

WIRELESS TELEGRAPHY ACT, 1926**WIRELESS TELEGRAPHY (FURTHER TEMPORARY ELECTRONIC COMMUNICATIONS SERVICES LICENCES) (NO.2) REGULATIONS 2021**

Temporary Licence for terrestrial systems capable of providing Electronic Communications Services

Licence under section 5 of the Act of 1926 to keep and have possession of apparatus for wireless telegraphy for terrestrial systems capable of providing Electronic Communications Services.

The Commission for Communications Regulation, in exercise of the powers conferred on it by section 5 of the Act of 1926 hereby grants the following licence to **Meteor Mobile Communications Limited** of **2022 Bianconi Avenue, Citywest Business Campus, Dublin 24, D24 HX03** (“the Licensee”).

The Licensee is hereby authorised to keep and have possession of apparatus for wireless telegraphy for terrestrial systems capable of providing Electronic Communications Services as specified in Part 2 of this Licence, subject to such apparatus being installed, maintained, worked and used in accordance with the terms, conditions and restrictions set out in the Wireless Telegraphy (Further Temporary Electronic Communications Services Licences) (No.2) Regulations 2021 (S.I. No.137 of 2021) (“the Regulations”), including but not limited to, the following:

- (1) The Licensee shall ensure that it complies with all of the conditions contained within the Regulations and within Parts 1 to 4 of this Licence; and
- (2) The Licensee shall ensure that it makes payment of the fee detailed in the Regulations.

For the purpose of this Licence, the definitions set out in the Wireless Telegraphy (Further Temporary Electronic Communications Services Licences) (No.2) Regulations 2021 apply.

This Licence shall come into effect on **2 April 2021** (the “Licence Commencement Date”) and, subject to revocation, suspension or withdrawal, expires on **1 July 2021**.

Signed:

For and on behalf of the Commission for Communications Regulation

Date of Issue: 30 March 2021

Part 1

Commencement and expiry dates of Spectrum Blocks

Authorised Band	Name of Spectrum Block	Frequency Assigned to Spectrum Block	Commencement Date per Spectrum Block	Expiry Date per Spectrum Block
<i>700 MHz Duplex</i>	<i>Blocks A and B</i>	<i>703–713 MHz / 758–768 MHz</i>	<i>02 April 2021</i>	<i>01 July 2021</i>
<i>2.1 GHz</i>	<i>Blocks D to F</i>	<i>1935–1950 MHz / 2125–2140 MHz</i>	<i>02 April 2021</i>	<i>01 July 2021</i>

Part 2

The Apparatus to which this Licence applies

Equipment Ref. Index	Equipment Description	Manufacturer	Equipment Number
1	RRU	Redacted	Redacted
2	Antenna	Redacted	Redacted
3	Antenna	Redacted	Redacted
4	Antenna	Redacted	Redacted
5	Antenna	Redacted	Redacted
6	Antenna	Redacted	Redacted
7	Antenna	Redacted	Redacted
8	Antenna	Redacted	Redacted
9	Antenna	Redacted	Redacted
10	Antenna	Redacted	Redacted
11	Antenna	Redacted	Redacted
12	Antenna	Redacted	Redacted
13	Antenna	Redacted	Redacted
14	Antenna	Redacted	Redacted
15	Antenna	Redacted	Redacted
16	Antenna	Redacted	Redacted
17	Antenna	Redacted	Redacted
18	Antenna	Redacted	Redacted
19	Antenna	Redacted	Redacted
20	RRU	Redacted	Redacted
21	Antenna	Redacted	Redacted
22	Antenna	Redacted	Redacted
23	Antenna	Redacted	Redacted
24	Antenna	Redacted	Redacted
25	Antenna	Redacted	Redacted
26	Antenna	Redacted	Redacted
27	Antenna	Redacted	Redacted
28	Antenna	Redacted	Redacted
29	Antenna	Redacted	Redacted
30	Antenna	Redacted	Redacted
31	Antenna	Redacted	Redacted
32	Antenna	Redacted	Redacted
33	Antenna	Redacted	Redacted
34	Antenna	Redacted	Redacted
35	Antenna	Redacted	Redacted
36	Antenna	Redacted	Redacted
37	Antenna	Redacted	Redacted
38	Antenna	Redacted	Redacted
39	Antenna	Redacted	Redacted
40	Antenna	Redacted	Redacted
41	Antenna	Redacted	Redacted
42	Antenna	Redacted	Redacted

43	Antenna	Redacted	Redacted
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Part 3

Apparatus Location and Details

Site Identity	Eastings	Northings	Authorised Band (MHz)
CE_1135	144959	160831	700
CE_1135	144959	160831	700
CE_1787	160672	165266	700
CE_1787	160672	165266	700
CE_2288	147902	160369	700
CE_2288	147902	160369	700
CE_2289	143090	163285	700
CE_2289	143090	163285	700
CE_2347	129006	167362	700
CE_2347	129006	167362	700
CE_2405	163872	183898	700
CE_2405	163872	183898	700
CE_2423	137860	160442	700
CE_2423	137860	160442	700
CE_2447	170113	172877	700
CE_2447	170113	172877	700
CE_2452	121396	171289	700
CE_2452	121396	171289	700
CE_3223	105802	179064	700
CE_3223	105802	179064	700
CE_3604	141333.1	162832.2	700
CE_3604	141333.1	162832.2	700
CE_3619	141487	161270	700
CE_3619	141487	161270	700
CE_3699	125299.97	158600	700
CE_3699	125299.97	158600	700
CE_3731	139800.03	180550	700
CE_3731	139800.03	180550	700
CE_3752	142438	170627	700
CE_3752	142438	170627	700
CE_3780	138179	168283	700
CE_3780	138179	168283	700
CE_4178	112891.5	163962.3	700
CE_4178	112891.5	163962.3	700
CE_4926	133790	179514	700
CE_4926	133790	179514	700
CK_1239	153963	112934	700
CK_1239	153963	112934	700
CK_1252	163428	70353	700
CK_1252	163428	70353	700
CK_1258	164770.0024	72432.97	700
CK_1258	164770.0024	72432.97	700

CK_1316	166713	71208	700
CK_1316	166713	71208	700
CK_1601	142612	95623	700
CK_1601	142612	95623	700
CK_1716	163516.9708	66966.01	700
CK_1716	163516.9708	66966.01	700
CK_1756	119907	31786	700
CK_1756	119907	31786	700
CK_1765	171947.8897	92316.46	700
CK_1765	171947.8897	92316.46	700
CK_1874	187982.0304	77933.05	700
CK_1874	187982.0304	77933.05	700
CK_1878	176279.9643	57881.99	700
CK_1878	176279.9643	57881.99	700
CK_1897	165673	72782	700
CK_1897	165673	72782	700
CK_1908	192781	63917	700
CK_1908	192781	63917	700
CK_1950	168907	69408	700
CK_1950	168907	69408	700
CK_1998	162476	67442	700
CK_1998	162476	67442	700
CK_2145	175899.01	84062.11	700
CK_2145	175899.01	84062.11	700
CK_2207	172605	70101	700
CK_2207	172605	70101	700
CK_2216	167494	73198	700
CK_2216	167494	73198	700
CK_2220	167118	72111	700
CK_2220	167118	72111	700
CK_2221	167899	72209	700
CK_2221	167899	72209	700
CK_2222	169473	71819	700
CK_2222	169473	71819	700
CK_2250	210253	77418	700
CK_2250	210253	77418	700
CK_2252	195195	73555	700
CK_2252	195195	73555	700
CK_2255	178095	64325	700
CK_2255	178095	64325	700
CK_2257	179682	66936	700
CK_2257	179682	66936	700
CK_2261	178457	69330	700
CK_2261	178457	69330	700
CK_2271	157200	87000	700
CK_2271	157200	87000	700

CK_2403	165759.52	95800.56	700
CK_2403	165759.52	95800.56	700
CK_2435	211964	77851	700
CK_2435	211964	77851	700
CK_2469	163072.0135	69280.99	700
CK_2469	163072.0135	69280.99	700
CK_2757	165808	72429	700
CK_2757	165808	72429	700
CK_2758	167415	71858	700
CK_2758	167415	71858	700
CK_2759	168064	71646	700
CK_2759	168064	71646	700
CK_2760	168913	67373	700
CK_2760	168913	67373	700
CK_2761	171846	70542	700
CK_2761	171846	70542	700
CK_3201	107616	59091.36	700
CK_3201	107616	59091.36	700
CK_3204	106862	47498.3	700
CK_3204	106862	47498.3	700
CK_3205	131315	65038.39	700
CK_3205	131315	65038.39	700
CK_3206	144142	61674.06	700
CK_3206	144142	61674.06	700
CK_3211	133874	50226	700
CK_3211	133874	50226	700
CK_3226	151906	57942	700
CK_3226	151906	57942	700
CK_3262	114028.41	52937.32	700
CK_3262	114028.41	52937.32	700
CK_3392	164504	81430	700
CK_3392	164504	81430	700
CK_3396	158165	70749	700
CK_3396	158165	70749	700
CK_3400	187691	73871	700
CK_3400	187691	73871	700
CK_3407	168301	73248	700
CK_3407	168301	73248	700
CK_3409	164766	72934	700
CK_3409	164766	72934	700
CK_3410	166882	72280	700
CK_3410	166882	72280	700
CK_3428	165049	71296	700
CK_3428	165049	71296	700
CK_3431	168787	71089.5	700
CK_3431	168787	71089.5	700

CK_3433	165627	70415	700
CK_3433	165627	70415	700
CK_3436	168432	70491	700
CK_3436	168432	70491	700
CK_3437	209940	75986	700
CK_3437	209940	75986	700
CK_3438	171648	71710	700
CK_3438	171648	71710	700
CK_3439	164624	69905	700
CK_3439	164624	69905	700
CK_3442	165130	71016	700
CK_3442	165130	71016	700
CK_3443	169362	71415	700
CK_3443	169362	71415	700
CK_3444	166525	69648	700
CK_3444	166525	69648	700
CK_3445	165794	69540	700
CK_3445	165794	69540	700
CK_3446	171245	71190	700
CK_3446	171245	71190	700
CK_3449	172277	70690	700
CK_3449	172277	70690	700
CK_3451	167038	64596	700
CK_3451	167038	64596	700
CK_3454	176819	66822	700
CK_3454	176819	66822	700
CK_3458	164064	63308	700
CK_3458	164064	63308	700
CK_3469	171605	67549	700
CK_3469	171605	67549	700
CK_3471	169786	69478	700
CK_3471	169786	69478	700
CK_3472	173070	62385	700
CK_3472	173070	62385	700
CK_3600	115850	103597	700
CK_3600	115850	103597	700
CK_3702	167613	69860	700
CK_3702	167613	69860	700
CK_3703	167297	72367	700
CK_3703	167297	72367	700
CK_3708	168902	68439	700
CK_3708	168902	68439	700
CK_3717	166309	73472	700
CK_3717	166309	73472	700
CK_3736	94051	57507	700
CK_3736	94051	57507	700

CK_3759	148652	65533	700
CK_3759	148652	65533	700
CK_3763	163833	51037	700
CK_3763	163833	51037	700
CK_3795	154300	100800	700
CK_3795	154300	100800	700
CK_3921	121474	107894	700
CK_3921	121474	107894	700
CK_3922	122734	67526	700
CK_3922	122734	67526	700
CK_3923	82169	49690	700
CK_3923	82169	49690	700
CK_3926	131878	92581	700
CK_3926	131878	92581	700
CK_4121	164827	66982	700
CK_4121	164827	66982	700
CK_4127	155573	66299	700
CK_4127	155573	66299	700
CK_4149	110941	33137	700
CK_4149	110941	33137	700
CK_4155	164590	50950	700
CK_4155	164590	50950	700
CK_4674	154066	104008	700
CK_4674	154066	104008	700
CK_4675	146483.32	112448.6	700
CK_4675	146483.32	112448.6	700
CK_4765	171085	110517	700
CK_4765	171085	110517	700
CN_1570	273203	300754	700
CN_1570	273203	300754	700
CN_2070	200454.8305	330051.9	700
CN_2070	200454.8305	330051.9	700
CN_2115	235694	293237	700
CN_2115	235694	293237	700
CN_3195	230650	299247	700
CN_3195	230650	299247	700
CN_3196	204781	327209	700
CN_3196	204781	327209	700
CN_3197	235765	286817	700
CN_3197	235765	286817	700
CN_3245	219362	327489	700
CN_3245	219362	327489	700
CN_3779	212471.59	320415.5	700
CN_3779	212471.59	320415.5	700
CN_3918	216830	325191	700
CN_3918	216830	325191	700

CN_4240	260378	289533	700
CN_4240	260378	289533	700
CN_4267	260221	315087	700
CN_4267	260221	315087	700
CN_4324	282093	291740	700
CN_4324	282093	291740	700
CN_4331	250011	292531	700
CN_4331	250011	292531	700
CN_4353	239138	300305	700
CN_4353	239138	300305	700
CN_4361	212097	325074	700
CN_4361	212097	325074	700
CN_4362	245484	290264	700
CN_4362	245484	290264	700
CN_4363	248215	312641	700
CN_4363	248215	312641	700
CN_4366	205241	335954	700
CN_4366	205241	335954	700
CN_4367	208118	338097	700
CN_4367	208118	338097	700
CW_1088	270515	161502	700
CW_1088	270515	161502	700
CW_2825	269249	161265	700
CW_2825	269249	161265	700
CW_3833	274461.0059	175035.8	700
CW_3833	274461.0059	175035.8	700
CW_4400	272735	176976	700
CW_4400	272735	176976	700
CW_4641	273055	175881	700
CW_4641	273055	175881	700
DL_2240	215981	402759	700
DL_2240	215981	402759	700
DL_2775	215626.9856	412973	700
DL_2775	215626.9856	412973	700
DL_3140	154290	386793	700
DL_3140	154290	386793	700
DL_3143	182227	359099	700
DL_3143	182227	359099	700
DL_3146	213020	422086	700
DL_3146	213020	422086	700
DL_3175	167456	415209	700
DL_3175	167456	415209	700
DL_3176	190436	367752	700
DL_3176	190436	367752	700
DL_3177	208868	397598	700
DL_3177	208868	397598	700

DL_3178	244882	453420	700
DL_3178	244882	453420	700
DL_3179	205378	433110	700
DL_3179	205378	433110	700
DL_3181	201023	399325	700
DL_3181	201023	399325	700
DL_3183	204030	412826	700
DL_3183	204030	412826	700
DL_3184	204396	366139	700
DL_3184	204396	366139	700
DL_3185	194548	404894	700
DL_3185	194548	404894	700
DL_3187	232509	405631	700
DL_3187	232509	405631	700
DL_3190	193506	432199	700
DL_3190	193506	432199	700
DL_3193	252173	443973	700
DL_3193	252173	443973	700
DL_3227	239409	445879	700
DL_3227	239409	445879	700
DL_3229	181353	399350	700
DL_3229	181353	399350	700
DL_3230	210974.35	440122.9	700
DL_3230	210974.35	440122.9	700
DL_3233	200532.98	408780.9	700
DL_3233	200532.98	408780.9	700
DL_3753	230124	410890	700
DL_3753	230124	410890	700
DL_3816	234721	432321	700
DL_3816	234721	432321	700
DL_3894	212368	370944	700
DL_3894	212368	370944	700
DL_3897	231948.0122	448774	700
DL_3897	231948.0122	448774	700
DL_3898	195994	373506	700
DL_3898	195994	373506	700
DL_3916	216903	412416	700
DL_3916	216903	412416	700
DL_4075	203776	385492	700
DL_4075	203776	385492	700
DL_4077	231868	398548	700
DL_4077	231868	398548	700
DL_4079	217188	414478	700
DL_4079	217188	414478	700
DL_4087	174796	387150	700
DL_4087	174796	387150	700

DL_4088	248485	433088	700
DL_4088	248485	433088	700
DL_4092	217051	411510	700
DL_4092	217051	411510	700
DL_4093	245338	445366	700
DL_4093	245338	445366	700
DL_4094	213924	434682	700
DL_4094	213924	434682	700
DL_4097	238457	417003	700
DL_4097	238457	417003	700
DL_4848	228172	433813	700
DL_4848	228172	433813	700
DL_4866	190682	362669	700
DL_4866	190682	362669	700
DL_4867	212263	407925	700
DL_4867	212263	407925	700
DL_4896	226067	395034	700
DN_1001	314045	235513	700
DN_1001	314045	235513	700
DN_1004	315826	235063	700
DN_1004	315826	235063	700
DN_1006	316785	234873	700
DN_1006	316785	234873	700
DN_1010	315566	234639	700
DN_1010	315566	234639	700
DN_1014	314066	234025	700
DN_1014	314066	234025	700
DN_1020	312786	233597	700
DN_1020	312786	233597	700
DN_1022	315664	233582	700
DN_1022	315664	233582	700
DN_1033	314772	234152	700
DN_1033	314772	234152	700
DN_1044	315286	234625	700
DN_1044	315286	234625	700
DN_1045	315921.7	234226.1	700
DN_1045	315921.7	234226.1	700
DN_1047	318210	234800	700
DN_1047	318210	234800	700
DN_1058	315019	233170	700
DN_1058	315019	233170	700
DN_1059	315246	233870	700
DN_1059	315246	233870	700
DN_1061	316109	235274	700
DN_1061	316109	235274	700
DN_1066	316129	234715	700

DN_1066	316129	234715	700
DN_1070	315635	233783	700
DN_1070	315635	233783	700
DN_1072	315231	234763	700
DN_1072	315231	234763	700
DN_1078	315384	238264	700
DN_1078	315384	238264	700
DN_1081	317259	236539	700
DN_1081	317259	236539	700
DN_1082	313179	237162	700
DN_1082	313179	237162	700
DN_1085	317027	234514	700
DN_1085	317027	234514	700
DN_1092	314772	235783	700
DN_1092	314772	235783	700
DN_1094	314163	235041	700
DN_1094	314163	235041	700
DN_1096	315005	234373	700
DN_1096	315005	234373	700
DN_1101	316777	243258	700
DN_1101	316777	243258	700
DN_1102	312122	240578	700
DN_1102	312122	240578	700
DN_1106	319406	236432	700
DN_1106	319406	236432	700
DN_1113	313203	239589	700
DN_1113	313203	239589	700
DN_1117	316313	237236	700
DN_1117	316313	237236	700
DN_1119	318900	239890	700
DN_1119	318900	239890	700
DN_1133	315387	242090	700
DN_1133	315387	242090	700
DN_1136	312340	238460	700
DN_1136	312340	238460	700
DN_1160	321349.6	239221.1	700
DN_1160	321349.6	239221.1	700
DN_1162	314909.17	240555.2	700
DN_1162	314909.17	240555.2	700
DN_1164	320298	236967	700
DN_1164	320298	236967	700
DN_1166	308582	241457	700
DN_1166	308582	241457	700
DN_1167	303876	239441	700
DN_1167	303876	239441	700
DN_1172	316739	237790	700

DN_1172	316739	237790	700
DN_1179	319768	239249	700
DN_1179	319768	239249	700
DN_1181	312709	236292	700
DN_1181	312709	236292	700
DN_1182	315550	240293	700
DN_1182	315550	240293	700
DN_1188	316826	233622	700
DN_1188	316826	233622	700
DN_1195	316642	236425	700
DN_1195	316642	236425	700
DN_1198	317121	234268	700
DN_1198	317121	234268	700
DN_1204	315222	226650	700
DN_1204	315222	226650	700
DN_1212	319458	226165	700
DN_1212	319458	226165	700
DN_1213	324403	228467	700
DN_1213	324403	228467	700
DN_1214	320522	224451	700
DN_1214	320522	224451	700
DN_1217	312124	230818	700
DN_1217	312124	230818	700
DN_1218	324270	226906	700
DN_1218	324270	226906	700
DN_1225	318443	230831	700
DN_1225	318443	230831	700
DN_1226	315666	231919	700
DN_1226	315666	231919	700
DN_1227	315402.7219	230165.9	700
DN_1227	315402.7219	230165.9	700
DN_1228	318730	226966	700
DN_1228	318730	226966	700
DN_1229	319860	228710	700
DN_1229	319860	228710	700
DN_1231	320953	227042	700
DN_1231	320953	227042	700
DN_1232	325020	225525	700
DN_1232	325020	225525	700
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LK_2420	162409	158445	700
LK_2422	155861	157745	700
LK_2422	155861	157745	700
LK_2442	157131	156442	700
LK_2442	157131	156442	700
LK_2444	155595	159426	700
LK_2444	155595	159426	700
LK_2478	172560	125214	700
LK_2478	172560	125214	700
LK_2809	155642.0236	158752	700
LK_2809	155642.0236	158752	700
LK_3009	156651	153838	700
LK_3009	156651	153838	700
LK_3090	125566	142056	700
LK_3090	125566	142056	700
LK_3091	121706	134504.7	700
LK_3091	121706	134504.7	700
LK_3093	165698	156776	700
LK_3093	165698	156776	700
LK_3596	158211	156795	700
LK_3596	158211	156795	700
LK_3597	158188	155257	700
LK_3597	158188	155257	700
LK_3601	154605	158254	700
LK_3601	154605	158254	700
LK_3602	156092	152384	700
LK_3602	156092	152384	700
LK_3603	159071	159569	700
LK_3603	159071	159569	700
LK_3609	167497	148782	700
LK_3609	167497	148782	700
LK_3611	160516	155767	700
LK_3611	160516	155767	700
LK_3663	160050	154172	700
LK_3663	160050	154172	700
LK_3748	111499.96	134200	700
LK_3748	111499.96	134200	700
LK_3769	145088	143869	700
LK_3769	145088	143869	700
LK_3788	125296	151473	700
LK_3788	125296	151473	700

LK_4103	134263	140320	700
LK_4103	134263	140320	700
LK_4105	122958.7	129617	700
LK_4105	122958.7	129617	700
LK_4695	167932	159517	700
LK_4695	167932	159517	700
LK_4774	146663	144850	700
LK_4774	146663	144850	700
LM_1913	193613	346488	700
LM_1913	193613	346488	700
LM_2069	203311.9929	293846	700
LM_2069	203311.9929	293846	700
LM_2123	177801.88	356577.1	700
LM_2123	177801.88	356577.1	700
LM_3084	222435	303539	700
LM_3084	222435	303539	700
LM_3085	205554	306234	700
LM_3085	205554	306234	700
LM_3088	178919	340612	700
LM_3088	178919	340612	700
LM_3104	205832.54	319698.7	700
LM_3104	205832.54	319698.7	700
LM_3266	220575	299335	700
LM_3266	220575	299335	700
LM_3268	198216	338813	700
LM_3268	198216	338813	700
LM_3738	205151	290009	700
LM_3738	205151	290009	700
LM_4273	194066	299706	700
LM_4273	194066	299706	700
LS_1437	227867.9824	177683	700
LS_1437	227867.9824	177683	700
LS_2110	234419	178366	700
LS_2110	234419	178366	700
LS_2604	229402.9838	210815.9	700
LS_2604	229402.9838	210815.9	700
LS_3528	248873	199048	700
LS_3528	248873	199048	700
LS_4680	245600	190608	700
LS_4680	245600	190608	700
LS_4692	227491	185794	700
LS_4692	227491	185794	700
LS_4806	235195	182864	700
LS_4806	235195	182864	700
MH_1594	279642	248865	700
MH_1594	279642	248865	700

MH_1609	281917.0111	256084	700
MH_1609	281917.0111	256084	700
MH_1636	307816	252544	700
MH_1636	307816	252544	700
MH_1647	311343	272717	700
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MH_2016	273088	258301	700
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MH_2111	279406	269408	700
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MH_3476	287218	268178	700
MH_3477	286289	268921	700
MH_3477	286289	268921	700
MH_3623	299058	253370	700
MH_3623	299058	253370	700
MH_3624	298195.51	246970	700
MH_3624	298195.51	246970	700
MH_4226	275043	275533	700
MH_4226	275043	275533	700
MH_4230	301272	242290	700
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MH_4239	301898	251838	700
MH_4296	279581	278805	700
MH_4296	279581	278805	700
MH_4312	292130	259884	700
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MH_4320	283502.03	265042	700
MH_4320	283502.03	265042	700
MH_4344	253176	274035	700
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MH_4763	283573	283903	700
MH_4860	270976	263986	700
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MN_1386	256868	329581	700
MN_1386	256868	329581	700
MN_1504	270754	312101	700
MN_1504	270754	312101	700
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MN_1900	267858	343890	700
MN_1970	264487.9672	319094	700
MN_1970	264487.9672	319094	700
MN_2105	278693	323081	700
MN_2105	278693	323081	700
MN_2162	251230.05	320415	700
MN_2162	251230.05	320415	700
MN_4253	250455	325670	700
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MN_4262	282451	319652	700
MN_4262	282451	319652	700
MN_4365	262313	332422	700
MN_4365	262313	332422	700
MN_4574	257672	324643	700
MN_4574	257672	324643	700
MN_4689	273586	332680	700
MN_4689	273586	332680	700
MN_4697	267452.88	339818.1	700
MN_4697	267452.88	339818.1	700
MN_4817	271841	336188	700
MN_4817	271841	336188	700
MO_1008	116048	289671	700
MO_1008	116048	289671	700
MO_1880	127074	304477	700
MO_1880	127074	304477	700
MO_1974	98041.00798	284463	700
MO_1974	98041.00798	284463	700
MO_2088	127072	286191	700
MO_2088	127072	286191	700
MO_2169	81731	316316	700
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MO_2363	122563.9793	255237	700
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MO_2375	121327.0237	299558	700
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MO_3052	134948	318659	700
MO_3052	134948	318659	700
MO_3054	119078	330922	700
MO_3054	119078	330922	700
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MO_3114	138890	282500	700
MO_3114	138890	282500	700
MO_3115	135308	274970	700
MO_3115	135308	274970	700
MO_3116	139677	299062	700
MO_3116	139677	299062	700
MO_3117	114743	290075	700
MO_3117	114743	290075	700
MO_3120	147103	296420	700
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MO_3244	123617	250948	700
MO_3244	123617	250948	700
MO_3257	80540.99	309962.7	700
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MO_3868	127475	253648	700
MO_3869	100478	338250	700
MO_3869	100478	338250	700
MO_3871	122274	268860	700
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MO_3873	105099	281547	700
MO_3873	105099	281547	700
MO_3875	141742	293589	700
MO_3875	141742	293589	700
MO_3932	122757	312023	700
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MO_4023	109821	298229	700
MO_4028	111737	283153	700
MO_4028	111737	283153	700
MO_4029	115396	290470	700
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MO_4030	118926	264510	700
MO_4030	118926	264510	700
MO_4031	110953	256407	700
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OY_1383	212011	228783	700
OY_1383	212011	228783	700
OY_1545	223902	217971	700
OY_1545	223902	217971	700
OY_1758	234236	227861	700
OY_1758	234236	227861	700
OY_2141	220491	230148	700
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OY_2187	203894.9781	221535	700
OY_2187	203894.9781	221535	700
OY_3632	261725	232852	700
OY_3632	261725	232852	700
OY_3856	249734	214318	700
OY_3856	249734	214318	700
OY_4209	233987	231495	700
OY_4209	233987	231495	700
OY_4215	263279	232558	700
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OY_4220	257940.1	227682.5	700
OY_4309	234019	224682	700
OY_4309	234019	224682	700
OY_4314	197449	225073	700
OY_4314	197449	225073	700

OY_4461	200209	217166	700
OY_4461	200209	217166	700
OY_4462	205913	204698	700
OY_4462	205913	204698	700
OY_4818	207397	212880	700
OY_4818	207397	212880	700
RN_1729	181163	268435	700
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RN_1901	197870	254200	700
RN_1901	197870	254200	700
RN_2392	205120.023	276919	700
RN_2392	205120.023	276919	700
RN_3048	200769	287591	700
RN_3048	200769	287591	700
RN_3049	174957	275759	700
RN_3049	174957	275759	700
RN_3050	160598	298206	700
RN_3050	160598	298206	700
RN_3051	193790	291890	700
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RN_3234	187349.99	289051	700
RN_3234	187349.99	289051	700
RN_3256	192714	280953	700
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RN_3742	183008	257283	700
RN_3742	183008	257283	700
RN_3852	198251	281668	700
RN_3852	198251	281668	700
RN_3853	180283	307683	700
RN_3853	180283	307683	700
RN_3854	186589	296226	700
RN_3854	186589	296226	700
RN_4280	171762	291480	700
RN_4280	171762	291480	700
RN_4283	187416	264662	700
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SO_1596	171697	354512	700
SO_1596	171697	354512	700
SO_1940	167956.9751	351493.9	700
SO_1940	167956.9751	351493.9	700
SO_2126	149712	306952	700
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SO_2127	178634	307773	700
SO_2127	178634	307773	700
SO_2816	169680.9792	334370	700
SO_2816	169680.9792	334370	700

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SO_3043	171821	308101	700
SO_3043	171821	308101	700
SO_3044	141503	314388	700
SO_3044	141503	314388	700
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SO_3249	158234	326632	700
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SO_3253	137265	337976	700
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SO_3849	169913	335636	700
SO_3849	169913	335636	700
SO_4013	157453	318368	700
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SO_4015	174316	314583	700
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SO_4017	170363	333551	700
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SO_4070	167654	336245	700
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SO_4089	175917	347289	700
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SO_4724	168408	336140	700
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TY_1662	212037	162974	700
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TY_1775	207460.979	139877	700
TY_1775	207460.979	139877	700
TY_1914	209352	118075.3	700
TY_1914	209352	118075.3	700
TY_1918	222354	147841	700
TY_1918	222354	147841	700
TY_1927	192702.9735	178820	700
TY_1927	192702.9735	178820	700

TY_2089	196988.9976	127233	700
TY_2089	196988.9976	127233	700
TY_2112	189698	118780	700
TY_2112	189698	118780	700
TY_2348	214557.0014	142665	700
TY_2348	214557.0014	142665	700
TY_2366	216183	169956	700
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TY_4159	189168	135937	700
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TY_4517	205515	124963	700
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TY_4726	173522	168141	700
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WD_1899	233991.0047	110600	700
WD_1899	233991.0047	110600	700
WD_1999	259185.5	110698.2	700
WD_1999	259185.5	110698.2	700
WD_2134	251376	101027	700
WD_2134	251376	101027	700
WD_2164	255529.06	111572.9	700
WD_2164	255529.06	111572.9	700
WD_2237	260930	112480	700
WD_2237	260930	112480	700
WD_3081	217440	87086	700
WD_3081	217440	87086	700
WD_3482	256826	100759	700
WD_3482	256826	100759	700
WD_3509	258093	101315	700
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WD_3512	259308	112572	700
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WD_3516	261941	110980	700
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WD_3517	262410	110400	700
WD_3517	262410	110400	700
WD_3520	258755	109700	700
WD_3520	258755	109700	700
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WD_4492	226059	93007	700
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WD_4526	260448	112395	700
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WD_4528	268008	113026	700
WD_4528	268008	113026	700
WD_4558	263636	108697.5	700
WD_4558	263636	108697.5	700
WD_4739	239584	105332	700
WD_4739	239584	105332	700
WH_1149	237212.9834	236300.9	700
WH_1149	237212.9834	236300.9	700
WH_1536	213235	249367	700
WH_1536	213235	249367	700
WH_1565	232290	252142	700
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WH_2008	242475	251959	700
WH_2008	242475	251959	700
WH_2009	229047	237652	700
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WH_2013	200751	241245	700
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WH_2135	211786	252346	700
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WH_4211	243870	253171	700
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WH_4334	204332	241510	700
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WH_4340	203730	241460	700
WH_4340	203730	241460	700
WH_4342	255703	252718	700
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WH_4733	208733	238370	700
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WH_4735	238630	234373	700
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WH_4742	230749.14	269128.1	700
WH_4742	230749.14	269128.1	700
WH_4743	238609	264043	700
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WH_4762	264835	268878	700
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WH_4808	237447	242332	700
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WW_1012	312365.9846	182251	700
WW_1012	312365.9846	182251	700
WW_1263	326200	217925	700
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WW_2046	327510	197690	700
WW_2046	327510	197690	700
WW_2047	331177	192547	700
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WW_2049	325312	187102	700
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WW_2155	329712	187207	700
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WW_3631	325233	216832	700
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WW_4456	311585	215455	700
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WW_4466	307113	198641	700
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WW_4664	303307	172841	700
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WW_4751	326487	178453	700
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WX_1140	299238	131326	700
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WX_1325	318871	154448	700
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WX_1728	309103	149838	700
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WX_1746	278622.6284	140063.2	700
WX_1746	278622.6284	140063.2	700
WX_1771	306905	152855	700
WX_1771	306905	152855	700

WX_1776	305850.9759	126992	700
WX_1776	305850.9759	126992	700
WX_1997	310052	130324	700
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WX_2056	302294	157148	700
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WX_3073	271203	128223	700
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WX_3783	303843	144822	700
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WX_3846	275889.983	102998	700
WX_3846	275889.983	102998	700
WX_4446	298379	139941	700
WX_4446	298379	139941	700
WX_4494	300398.1	121051.4	700
WX_4494	300398.1	121051.4	700
WX_4497	278345	107443	700
WX_4497	278345	107443	700
WX_4580	304791.93	120869.6	700
WX_4580	304791.93	120869.6	700
WX_4593	304689.8	122047.8	700
WX_4593	304689.8	122047.8	700
WX_4595	273198.35	108213.8	700
WX_4595	273198.35	108213.8	700
WX_4602	308368	138259	700
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WX_4748	276331	126823	700
WX_4748	276331	126823	700
CE_2288	147902	160369	2100
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CE_2289	143090	163285	2100
CE_2289	143090	163285	2100
CE_2293	133679	177098	2100
CE_2293	133679	177098	2100
CE_2405	163872	183898	2100
CE_2405	163872	183898	2100
CE_2407	148925	167643	2100
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CE_2419	148577	178054	2100
CE_2419	148577	178054	2100
CE_2423	137863	160447	2100
CE_2423	137863	160447	2100
CE_2447	170113	172877	2100
CE_2447	170113	172877	2100
CE_2452	121396	171289	2100
CE_2452	121396	171289	2100
CE_2455	155662	171959	2100
CE_2455	155662	171959	2100
CE_3223	105935	179158	2100
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CE_3604	141333	162832	2100
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CE_3615	133165	175935	2100
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CE_3619	141487	161270	2100
CE_3619	141487	161270	2100
CE_3755	109626	187583	2100
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CE_3962	133740	178293	2100
CE_3962	133740	178293	2100
CE_4172	107850	194500	2100
CE_4172	107850	194500	2100
CE_4173	114443	188894	2100
CE_4173	114443	188894	2100
CE_4174	109248	181758	2100
CE_4174	109248	181758	2100
CE_4175	104019	168792	2100
CE_4175	104019	168792	2100
CE_4176	87217	158357	2100
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CE_4177	99403	155306	2100
CE_4177	99403	155306	2100
CE_4178	112892	163962	2100
CE_4178	112892	163962	2100
CE_4180	127178	182792	2100
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CE_4671	133954	177744	2100
CE_4671	133954	177744	2100
CE_4926	133790	179514	2100
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CK_1258	164872	72362	2100
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CK_1316	166713	71208	2100
CK_1585	180974	73262	2100
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CK_1716	163517	66966	2100
CK_1716	163517	66966	2100
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CK_1950	168907	69408	2100
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CK_2148	180691	99297	2100
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CK_2207	172605	70101	2100
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CK_2220	167118	72111	2100
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CK_2221	167911	72201	2100
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CK_2222	169473	71819	2100
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CK_2223	167783	72504	2100
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CK_2224	165346	70777	2100
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CK_2250	210253	77418	2100
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CK_2252	195195	73555	2100
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CK_2253	188020	73224	2100
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CK_2255	178095	64325	2100
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CK_2256	176169	63995	2100
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CK_2257	179682	66936	2100
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CK_2260	172958	62793	2100
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CK_2261	178457	69330	2100
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CK_2262	181520	112441	2100
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CK_2271	157358	87111	2100
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CK_2275	156047	116049	2100
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CK_2276	153800	122500	2100
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CK_2469	163081	69288	2100
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CK_2753	167194	71746	2100
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CK_2757	165808	72429	2100
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CK_2758	167415	71858	2100
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CK_2759	168064	71646	2100
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CK_2760	168913	67373	2100
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CK_2768	167403	74362	2100
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CK_4128	159872	70733	2100
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CK_4137	61587	45070	2100
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CK_4151	135475	40476	2100
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CW_4427	297189	180347	2100
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DL_3149	262525	441992	2100
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DL_3190	193506	432199	2100
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DL_3524	218955	412577	2100
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DL_3550	213300	412894	2100
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DL_3735	226060	403747	2100
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DL_4077	231868	398548	2100
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DN_1004	315826	235063	2100
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KK_2034	250662	152750	2100
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KK_2035	266308	145552	2100
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KK_2037	257833	141807	2100
KK_2037	257833	141807	2100
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KY_2461	83011	114062	2100
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KY_3238	85416	114831	2100
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KY_3881	85857	113761	2100
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KY_4116	96499	90647	2100
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KY_4131	52734	99852	2100
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KY_4132	41855	99160	2100
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LD_1932	214868	274513	2100
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LS_2020	235995	193451	2100
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WH_4342	255703	252718	2100
WH_4342	255703	252718	2100
WH_4808	237447	242332	2100
WH_4808	237447	242332	2100
WW_1263	326180	217936	2100
WW_1263	326180	217936	2100
WW_2046	327487	197695	2100
WW_2046	327487	197695	2100
WW_2047	331177	192547	2100
WW_2047	331177	192547	2100
WW_2050	325005	179596	2100
WW_2050	325005	179596	2100
WW_2051	325030	175405	2100
WW_2051	325030	175405	2100
WW_3631	325233	216832	2100
WW_3631	325233	216832	2100
WW_4412	285834	189603	2100
WW_4412	285834	189603	2100
WW_4425	297661	171107	2100
WW_4425	297661	171107	2100
WW_4426	306753	171674	2100
WW_4426	306753	171674	2100

WW_4490	331712	193863	2100
WW_4490	331712	193863	2100
WW_4503	298110	214285	2100
WW_4503	298110	214285	2100
WW_4521	327131	212556	2100
WW_4521	327131	212556	2100
WW_4550	318139	181247	2100
WW_4550	318139	181247	2100
WW_4554	319833	175323	2100
WW_4554	319833	175323	2100
WX_2052	315196	170781	2100
WX_2052	315196	170781	2100
WX_2054	316602	156988	2100
WX_2054	316602	156988	2100
WX_2057	298300	142200	2100
WX_2057	298300	142200	2100
WX_2058	291200	130250	2100
WX_2058	291200	130250	2100
WX_2059	300745	129270	2100
WX_2059	300745	129270	2100
WX_2060	298125	119229	2100
WX_2060	298125	119229	2100
WX_2061	307100	112900	2100
WX_2061	307100	112900	2100
WX_2803	315361	159042	2100
WX_2803	315361	159042	2100
WX_3071	283132	124763	2100
WX_3071	283132	124763	2100
WX_3073	271203	128223	2100
WX_3073	271203	128223	2100
WX_3536	302788	120727	2100
WX_3536	302788	120727	2100
WX_3579	294967	141949	2100
WX_3579	294967	141949	2100
WX_4405	305223	121515	2100
WX_4405	305223	121515	2100
WX_4422	312086	133708	2100
WX_4422	312086	133708	2100
WX_4429	272646	126792	2100
WX_4429	272646	126792	2100
WX_4446	298379	139941	2100
WX_4446	298379	139941	2100
WX_4457	319471	156260	2100
WX_4457	319471	156260	2100
WX_4491	315543	159722	2100
WX_4491	315543	159722	2100

WX_4494	300398	121051	2100
WX_4494	300398	121051	2100
WX_4496	296947	103599	2100
WX_4496	296947	103599	2100
WX_4498	297342	139715	2100
WX_4498	297342	139715	2100
WX_4580	304792	120870	2100
WX_4580	304792	120870	2100
WX_4590	299623	121980	2100
WX_4590	299623	121980	2100
WX_4593	304760	122025	2100
WX_4593	304760	122025	2100

Part 4

Licence Conditions

Section 1: General

Harmful Interference

1. In the event of Harmful Interference, the affected Licensees shall exchange information with a view to resolving the Harmful Interference by mutual consent. Where resolution cannot be agreed between the affected Licensees, the Commission may mediate in accordance with its statutory functions, objectives and duties.

Section 2: Technical Conditions

Definitions

1. The following additional definitions shall apply to this Licence:

“2RN” means RTÉ Transmission Network DAC (trading as 2rn);

“Active Antenna Systems” or “AAS” means a Base Station and an antenna system where the amplitude and/or phase between antenna elements is continually adjusted resulting in an antenna pattern that varies in response to short term changes in the radio environment. This excludes long-term beam shaping such as fixed electrical down tilt. In AAS Base Stations the antenna system is integrated as part of the Base Station system or product;

“Non-Active Antenna Systems” or “non-AAS” means a Base Station and an antenna system that provides one or more antenna connectors, which are connected to one or more separately designed passive antenna elements to radiate radio waves. The amplitude and phase of the signals to the antenna elements is not continually adjusted in response to short term changes in the radio environment;

“Aeronautical Primary Radars” means apparatus (including “Star2000” and “TA10” models) providing primary aircraft detection used in airport surveillance networks at Dublin, Cork and Shannon airports;

“Base Station” means Apparatus connected to a backhaul network which provides a Radiocommunication Service to Terminal Stations using spectrum in the 700 MHz Duplex, 2.1 GHz Band or 2.6 GHz Band;

“Block Edge Mask” or “BEM” is an emission mask that is defined as a function of frequency in relation to a ‘block edge’, the latter being the frequency boundary of a spectrum block for which rights of use are assigned to a Licensee. The BEM consists of several elements which are defined for certain measurement bandwidths.

“dBm” means decibels of power referenced to one milliwatt;

“Downlink” means transmissions from a Base Station to a Terminal Station;

“IAA” means the Irish Aviation Authority;

“Inter-Licensee Synchronisation Procedure” means the synchronisation procedure set out in Section 3 of this Licence;

“MNO” means a mobile network operator with an existing network in Ireland;

“Power Flux Density limit” or pfd limit (dBW/m²) equals the interference threshold at radar receiver input (measured in dBW) minus the radar antenna gain (measured in dBi) plus $10 \log(4\pi/\lambda^2)$, where λ is the wavelength in meters;

“TD-LTE” means the TDD variant of LTE (Long Term Evolution) technology;

“TRP” (total radiated power) is a measure of how much power the antenna actually radiates and is defined as the integral of the power transmitted in different directions over the entire radiation sphere;

“Terminal Station” means mobile user equipment and fixed customer premise equipment which communicates with a Base Station using spectrum in the 700 MHz Duplex, 2.1 GHz Band or 2.6 GHz Band;

“Uplink” means transmissions from a Terminal Station to a Base Station; and

“Virgin Media” means Virgin Media Ireland Limited.

Technical Conditions

2. The 700 MHz Duplex

- (a) Only terrestrial systems compatible with the Decision of 2016 can be worked and used in the 700 MHz Duplex.
- (b) The FDD mode of operation shall be used in the 700 MHz Duplex. The duplex spacing shall be 55 MHz with Terminal Station transmission (FDD uplink) located in the lower frequency band 703-733 MHz and Base Station transmission (FDD downlink) located in the upper frequency band 758-788 MHz.
- (c) The Licensee shall comply with all Memoranda of Understanding (‘MoU’)¹ agreed between the Commission and its neighbouring national regulatory authorities responsible for communications matters, in particular the Office of Communications (“Ofcom”) in the UK, or its successor, in relation to the 700 MHz Duplex.

¹ [Memorandum of Understanding](#) on frequency coordination between Ireland and the United Kingdom concerning the spectrum coordination of Land Mobile Radio Communication Networks in the frequency range 703 MHz to 2690 MHz, available at www.comreg.ie

- (d) The Licensee shall comply with the 700 MHz Coordination Procedures as agreed to by the MNOs, 2RN and Virgin Media on 3 April 2020 and published by the Commission on 7 April 2020 as Annex 4 to Commission Document 20/27.

Base Stations

- (e) Within a 700 MHz Duplex Block assigned to the Licensee, the in-block power from a Base Station must not exceed a maximum mean EIRP of 64 dBm/5 MHz per antenna.
- (f) Outside of the 700 MHz Duplex Block(s) assigned to the Licensee, the Licensee shall comply with the out-of-block BEM as specified in Section B of the Annex of the Decision of 2016.

Terminal Stations

- (g) The maximum mean in-block power limit of 23 dBm for Terminal Stations shall apply².
- (h) The out-of-block technical conditions set out in Table 10 to Table 12 of the Annex to the Decision of 2016 shall apply.
- (i) Where a Licensee holds more than 2×10 MHz in the 700 MHz Duplex and if this assignment is deployed starting at 703 MHz, the licensee shall not deploy a bandwidth greater than 10 MHz for Terminal Stations in order to meet the conditions as set out in Table 12 of the Annex to the Decision of 2016 to provide protection to the frequency range 470 - 694 MHz.

3. The 2.1 GHz Band

- (a) Only terrestrial systems compatible with the Decision of 2012 can be worked and used in the 2.1 GHz Band.
- (b) The duplex mode of operation shall be FDD. The duplex spacing shall be 190 MHz with Terminal Station transmission (FDD uplink) located in the lower part of the band starting at 1920 MHz and finishing at 1980 MHz and Base Station transmission (FDD downlink) located in the upper part of the band starting at 2110 MHz and finishing at 2170 MHz.

² This power limit is specified as EIRP for Terminal Stations designed to be fixed or installed and as total radiated power (TRP) for Terminal Stations designed to be mobile or nomadic. This value is subject to a tolerance of up to + 2 dB, to take account of operation under extreme environmental conditions and production spread.

- (c) The Licensee shall comply with all MoU³ between the Commission and its neighbouring national regulatory authorities responsible for communications matters, in particular the Office of Communications (“Ofcom”) in the UK, or its successor, in relation to the spectrum in the 2.1 GHz Band.

Base Stations

- (d) Within a 2.1 GHz Band Block assigned to the Licensee, the in-block radiated power from a Base Station transmitter in the downlink direction must not exceed:
 - (i) an EIRP of 64 dBm/5 MHz per antenna for non-AAS; and
 - (ii) a TRP limit of 57 dBm/5MHz per cell for AAS.
- (e) Outside of the 2.1 GHz Band Block(s) assigned to the Licensee, the Licensee shall comply with the out-of-block BEM as specified in Section C of the Annex to the Decision of 2012.

Terminal Stations

- (f) The maximum mean in-block power limit over frequencies of FDD Uplink of 24 dBm for Terminal Stations shall apply⁴.

4. The 2.6 GHz Band

- (a) Only terrestrial systems compatible with the Decision of 2008 can be worked and used in the 2.6 GHz Band.
- (b) Within the 2.6 GHz Band FDD Generic Frequency Blocks, the duplex mode of operation is FDD, where the duplex spacing shall be 120 MHz with terminal station transmission (Uplink) located in the lower part of the band starting at 2500 MHz (extending to 2570 MHz) and base station transmission (downlink) located in the upper part of the band starting at 2620 MHz.
- (c) Within the 2570 - 2620 MHz frequency range of the 2.6 GHz Band, the modes of operation permitted in accordance with the Decision of 2008 are:
 - (i) TDD;

³ [Memorandum of Understanding](#) on frequency coordination between Ireland and the United Kingdom concerning the spectrum coordination of Land Mobile Radio Communication Networks in the frequency range 703 MHz to 2690 MHz, available at www.comreg.ie

⁴ This power limit is specified as EIRP for terminal stations designed to be fixed or installed and as TRP for terminal stations designed to be mobile or nomadic. EIRP and TRP are equivalent for isotropic antennas. It is recognised that this value may be subject to a tolerance defined in the harmonised standards to take account of operation under extreme environmental conditions and production spread.

- (ii) Base Station transmission only; and
 - (iii) Terminal Station transmission only.
- (d) To achieve coexistence of adjacent FDD and TDD networks:
- (i) the 2.6 GHz Band TDD Fixed Frequency Block (Lower) is a restricted spectrum block as described in the Annex of the Decision of 2008; and
 - (ii) the 2.6 GHz Band TDD Fixed Frequency Block (Upper) may be utilised in accordance with the Decision of 2008 noting that it may suffer an increased risk of interference due to the emissions from the FDD downlink.
- (e) Licensees assigned 2.6 GHz Band TDD Blocks shall comply with the Inter-Licensee Synchronisation Procedure set out in Section 3 of this Licence.
- (f) The Licensee shall comply with all MoU⁵ between the Commission and its neighbouring national regulatory authorities responsible for communications matters, in particular the Office of Communications (“Ofcom”) in the UK, or its successor, in relation to spectrum in the 2.6 GHz Band.

Base Stations

- (g) Within any 2.6 GHz Band FDD Generic Frequency Blocks, any 2.6 GHz Band TDD Generic Frequency Blocks, and the 2.6 GHz Band TDD Fixed Frequency Block (Upper)⁶ assigned to a Licensee, the in-block radiated power from a Base Station transmitter must not exceed an upper limit of:
- (i) 68 dBm/5 MHz per antenna for Non-AAS; and
 - (ii) 60 dBm/5 MHz per cell for AAS.
- (h) Within the 2.6 GHz Band TDD Fixed Frequency Block (Lower), assigned to a Licensee, the in-block radiated power from a Base Station transmitter in the downlink direction must not exceed a mean in-block power of:
- (i) 25 dBm/5 MHz EIRP per antenna for Non-AAS; and
 - (ii) 22 dBm/5 MHz TRP limit per cell for AAS.

⁵ [Memorandum of Understanding](#) on frequency coordination between Ireland and the United Kingdom concerning the spectrum coordination of Land Mobile Radio Communication Networks in the frequency range 703 MHz to 2690 MHz, available at www.comreg.ie

⁶ The 2.6 GHz Band TDD Fixed Frequency Block (Upper), which is immediately adjacent to the FDD downlink, may suffer an increased risk of interference due to the emissions from the FDD downlink.

- (i) Outside of any 2.6 GHz Band FDD Generic Frequency Blocks assigned to the Licensee, the Licensee shall comply with the out-of-block BEM which is built up by combining Tables 2, 3 and 4 of Section C of the Annex of the Decision of 2008, in such a way that the limit for each frequency is given by the higher value out of the baseline and the in-block power limits.
- (j) Outside of the 2.6 GHz Band TDD Fixed Frequency Block (Lower), any 2.6 GHz Band TDD Generic Frequency Blocks and the 2.6 GHz Band TDD Fixed Frequency Block (Upper) assigned to a Licensee, the Licensee shall comply with the Inter Licensee Synchronisation procedure set out in Section 3.
- (k) Outside of the 2.6 GHz Band TDD Fixed Frequency Block (Lower) and where Base Station antennas are placed indoors, the BEM for Non-AAS may be in line with Table 6 of Section C of the Annex of the Decision of 2008, provided that at geographical borders to other Member States, Table 3 of Section C of the Annex of the Decision of 2008 applies and that Table 5 of Section C of the Annex of the Decision of 2008 remains valid nationwide.
- (l) Unless otherwise agreed between the Licensee and the IAA in writing, the Licensee shall ensure protection of all Aeronautical Primary Radars⁷, by:
 - i. deploying Base Stations outside of exclusion zones defined in Figures 4.3, 4.5, 4.6 and 5.3 of the Plum Report (Commission Document 19/124c)⁸; and
 - ii. complying with the relevant Power Flux Density (pfd) limits with respect to:
 - I. the STAR2000 radars with locations as set out in Chapter 3 of Commission Document 19/59c⁹ as follows:
 - A. an out-of-band Base Station pfd limit of -145 dBW/m²/MHz per operator to address impact of spurious MFCN emissions at the radar antenna; and
 - B. an in-band Base Station pfd limit of -83 dBW/m² per operator, to address the impact of blocking and intermodulation effects at radar receivers.
 - II. the TA10 radar with a location as set out in Chapter 5 of Commission Document 19/124c¹⁰ as follows:

⁷ Aeronautical radar locations (Dublin, Shannon and Cork) and technical parameters are detailed in Plum Report, Commission Documents 19/59c and 19/124c, available at www.comreg.ie

⁸ Shape files (.SHP) representing these figures are available at www.comreg.ie

⁹ Commission Document 19/59c, available at www.comreg.ie

¹⁰ Commission Document 19/124c, available at www.comreg.ie

- A. an out-of-band Base Station pfd limit of $-156 \text{ dBW/m}^2/\text{MHz}$ per operator to address the impact of spurious MFCN emissions at the radar antenna; and
- B. an in-band Base Station pfd limit of -93 dBW/m^2 per operator, to address the impact of blocking and intermodulation effects at radar receivers.

For deployments in compliance with condition (l) above, the Licensee shall nominate a point of contact for coordination with the IAA and provide written notification to the IAA of any 2.6 GHz Band deployments at least 48 hours in advance of their deployment, and provide such information on any 2.6 GHz Band deployments as may reasonably be required by the IAA, including information on antenna height, antenna orientation, and predicted coverage plots.

Terminal Stations

- (m) The maximum mean in-block power (including Automatic Transmitter Power Control range) of:
 - (i) $35 \text{ dBm}/5 \text{ MHz}$ EIRP; and
 - (ii) $31 \text{ dBm}/5 \text{ MHz}$ TRP,
 shall apply to Terminal Stations¹¹.

Section 3: Inter-Licensee Synchronisation Procedure

This Section 3 applies only to Licensees who have been assigned 2.6 GHz Band TDD Blocks.

Definitions

1. The following additional definitions shall apply in this section:

“Default Frame Structure” means the frame structure as detailed in detailed in 3(1) below;

“Indoor Small Cell” means either a Non-AAS Base Station with an EIRP of less than or equal to 24 dBm per 20 MHz carrier or an AAS Base Station with a TRP of less than or equal to 16

¹¹ EIRP should be used for fixed or installed terminal stations and the TRP should be used for the mobile or nomadic terminal stations. TRP is a measure of how much power the antenna actually radiates. The TRP is defined as the integral of the power transmitted in different directions over the entire radiation sphere.

dBm per 20 MHz carrier that is located indoors either within a residential or non-residential property;

“Other Frame Structure” means a frame structure other than the Default Frame Structure;

“Restrictive BEM” means, for Licensees utilising the Other Frame Structure (or failing to synchronise with adjacent channel networks for any other reason): for any 2.6 GHz Band TDD Blocks assigned to a Licensee, a restrictive BEM is given by combining Table 3 and either Table 2¹² or Table 5¹³ as appropriate in Section C of the Annex of the Decision of 2008, in such a way that the limit for each frequency is given by the higher value out of the baseline and the in-block power limits applies;

“Unrestrictive BEM” means Operators utilising the Default Frame Structure on their network (and having a common reference phase clock with adjacent channel operators¹⁴): for any 2.6 GHz Band TDD Blocks assigned to a Licensee, a BEM given by combining Table 2¹² or Table 5¹³ as appropriate, Tables 3 and 4 of Section C. of the Annex of the Decision of 2008, in such a way that the limit for each frequency is given by the higher value out of the baseline and the in-block power limits applies ;

Introduction

2. (1) Licensees assigned 2.6 GHz Band TDD Blocks shall be bound by the inter-Licensee synchronisation procedure set out in this Section 3.

(2) Licensees shall co-operate in such a way that one network deployment within spectrum in the 2.6 GHz Band does not cause Harmful Interference to that of another Licensee.

(3) This procedure sets out the circumstances in which Licensees may use the Unrestrictive BEM and the Restrictive BEM, so as to minimise the risk of Harmful Interference to other Licensees.

Conditions for using the Unrestrictive BEM

3. Default Frame Structure - The technical conditions for Unrestrictive BEM shall apply where a Licensee’s Base Station complies with the Default Frame Structure outlined below:

- (a) Transmissions from a Licensee’s Base Station(s) shall have a frame structure as shown in Table 1. Indicated timeslots (or subframes) must not be allocated to

¹² For 2.6 GHz Band TDD Generic Frequency Blocks and the 2.6 GHz Band TDD Fixed Frequency Block (Upper)

¹³ For the case of 2.6 GHz Band TDD Fixed Frequency Block (Lower)

¹⁴ Each operator needs to ensure the start of frame is aligned with adjacent channel operators above and below its assignment

anything other than Downlink (D) and Uplink (U) transmissions. ‘S’ denotes a special subframe. TD-LTE frame configuration 2 (Downlink: Uplink, 3:1) with special subframe configuration 6 or equivalent frame structures whose transmit and receive periods are aligned with this configuration are permitted;

- (b) Timeslots shall have a duration of 1 millisecond; and
- (c) Licensees shall ensure that frames start at a common reference time (+/- 1.5 μ s) so that all Licensees’ frames are aligned and transmissions synchronised.

DL/UL ratio	Timeslot or Subframe number									
	0	1	2	3	4	5	6	7	8	9
3:1	D	S	U	D	D	D	S	U	D	D

Table 1: Default Frame Structure

Conditions for using the Restrictive BEM

4. Other Frame Structure — the technical conditions for Restrictive BEM shall apply where a Licensee’s Base Station complies with the Other Frame Structure as outlined below:

- (a) All frame configurations that are not compatible with TD-LTE frame configuration 2 (3:1) with special sub-frame configuration 6 or equivalent frame structure whose transmit and receive periods are aligned with this configuration are permitted;
- (b) Licensees shall co-operate to minimise Harmful Interference caused by sub-frame overlaps if different technologies are used; and
- (c) Licensees using the Restrictive BEM shall not cause Harmful Interference to those Licensees’ networks that use the Default Frame Structure (or equivalent). Achieving this may include applying internal guard bands and/or reduced in block power levels in blocks adjacent to those Licensees’ networks that use the Default Frame Structure (or equivalent).

Indoor Small Cells

5. Indoor Small Cells for indoor domestic and other indoor locations are permitted to operate under the Unrestrictive BEM on the condition that they do not cause Harmful Interference to any other Licensees.

Section 4: Coverage Requirements

1. Coverage at specific locations in the State

Coverage	Location	Obligation
Outdoors	Specific locations in relation to the extraordinary situation arising from COVID-19 as may be determined from time to time by the Government and communicated to the Commission by the Department of the Environment, Climate and Communications	Best efforts using all rights of use available to the Licensee

Table 1: Outdoor coverage obligations at specific locations in relation to the extraordinary situation arising from COVID-19