

5 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
38	2580	37850	20	1	0	Fig.1
38	2595	38000	20	1	0	Fig.2
38	2610	38150	20	1	0	Fig.3

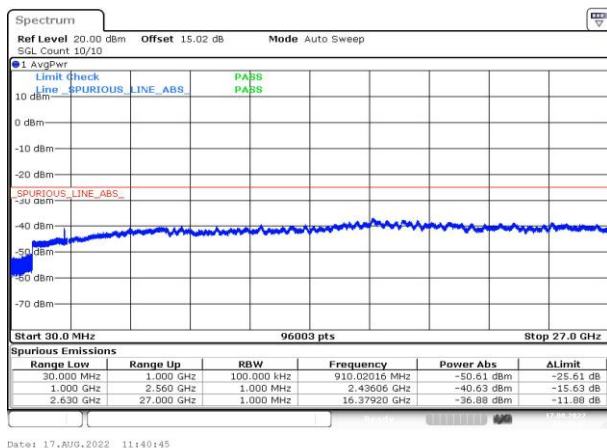


Fig.1

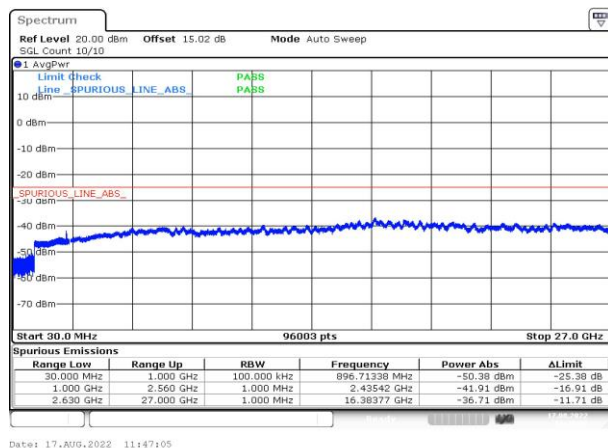


Fig.2

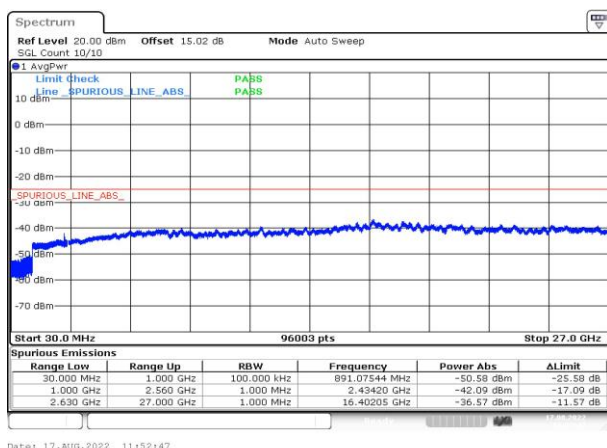


Fig.3

6 Band Edges Compliance

Band	Mode	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
38	QPSK	2572.5	37775	5	1	0	Fig.1
38	QPSK	2572.5	37775	5	25	0	Fig.2
38	QPSK	2617.5	38225	5	1	24	Fig.3
38	QPSK	2617.5	38225	5	25	0	Fig.4
38	QPSK	2575	37800	10	1	0	Fig.5
38	QPSK	2575	37800	10	50	0	Fig.6
38	QPSK	2615	38200	10	1	49	Fig.7
38	QPSK	2615	38200	10	50	0	Fig.8
38	QPSK	2577.5	37825	15	1	0	Fig.9
38	QPSK	2577.5	37825	15	75	0	Fig.10
38	QPSK	2612.5	38175	15	1	74	Fig.11
38	QPSK	2612.5	38175	15	75	0	Fig.12
38	QPSK	2580	37850	20	1	0	Fig.13
38	QPSK	2580	37850	20	100	0	Fig.14
38	QPSK	2610	38150	20	1	99	Fig.15
38	QPSK	2610	38150	20	100	0	Fig.16

Test Mode: QPSK

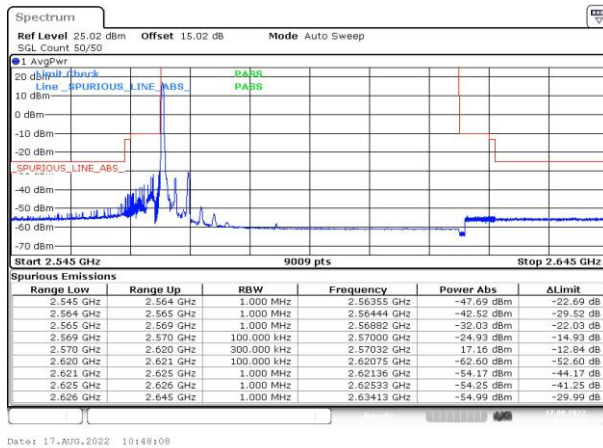


Fig.1

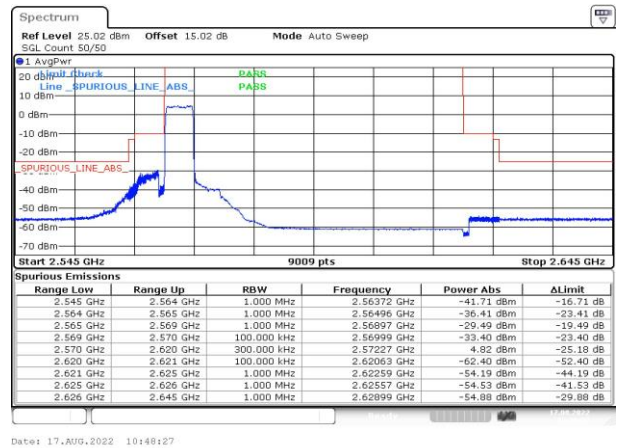


Fig.2

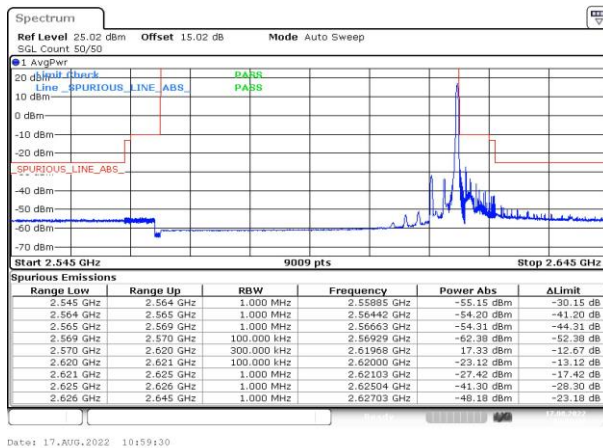


Fig.3

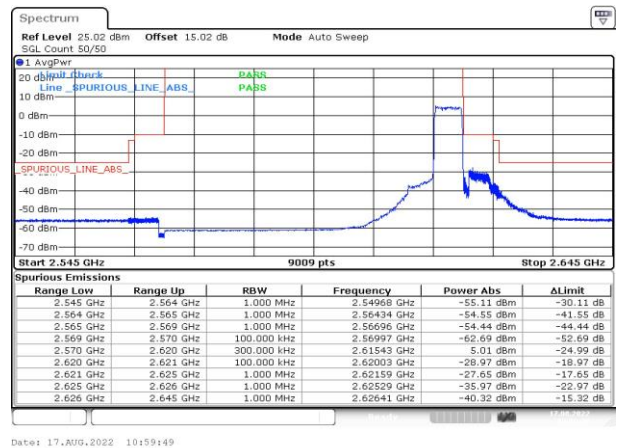


Fig.4

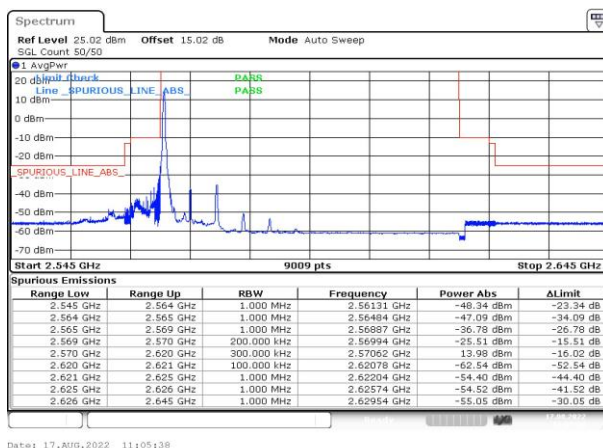


Fig.5

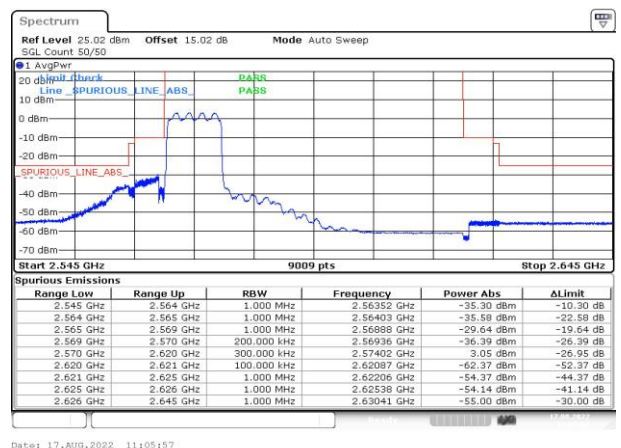


Fig.6

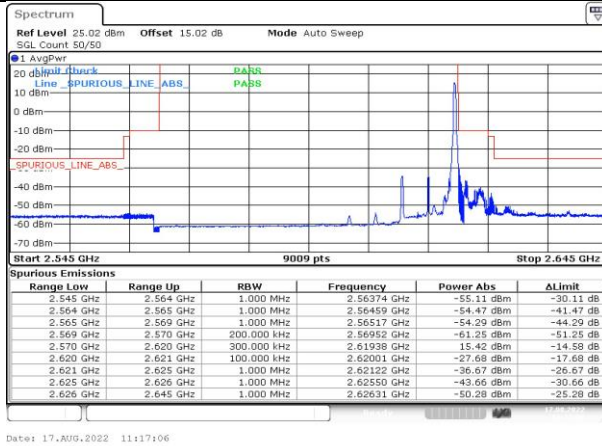


Fig.7



Fig.8

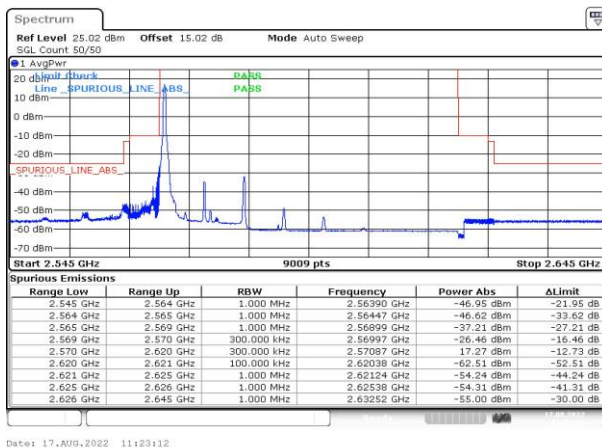


Fig.9

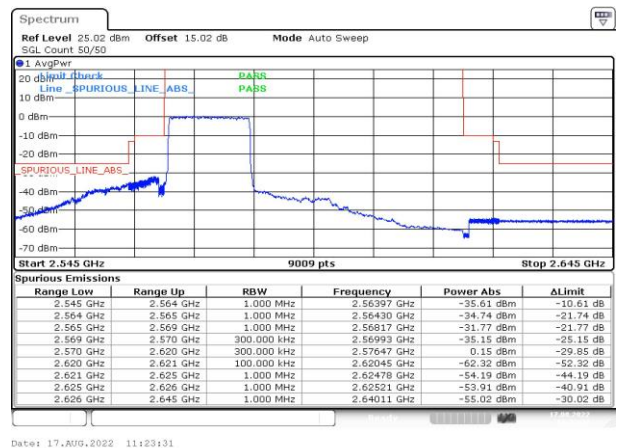


Fig.10

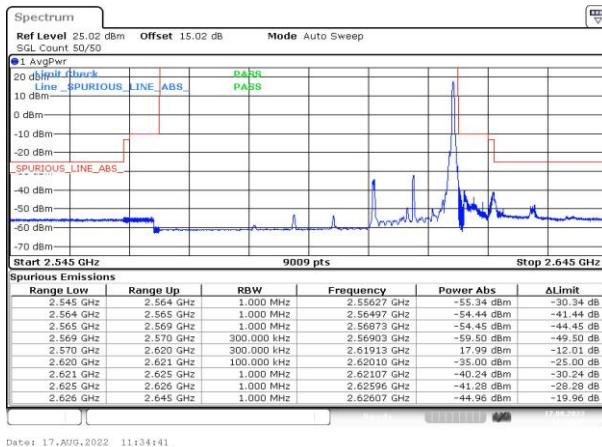


Fig.11



Fig.12

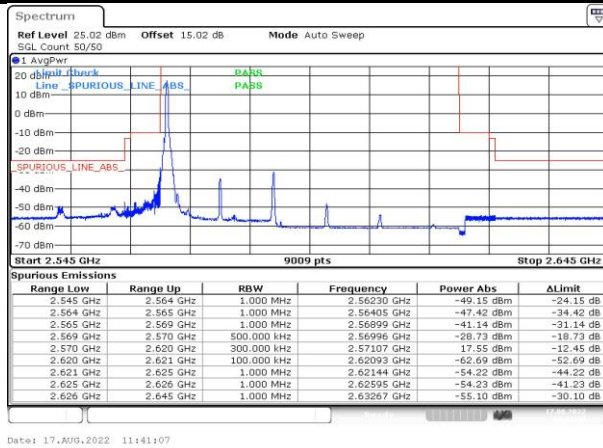


Fig.13



Fig.14

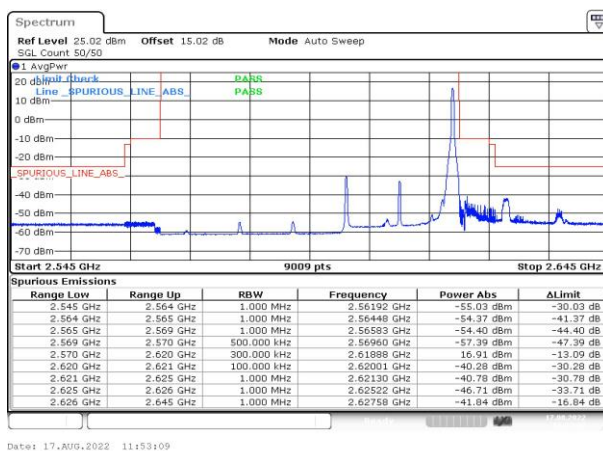


Fig.15

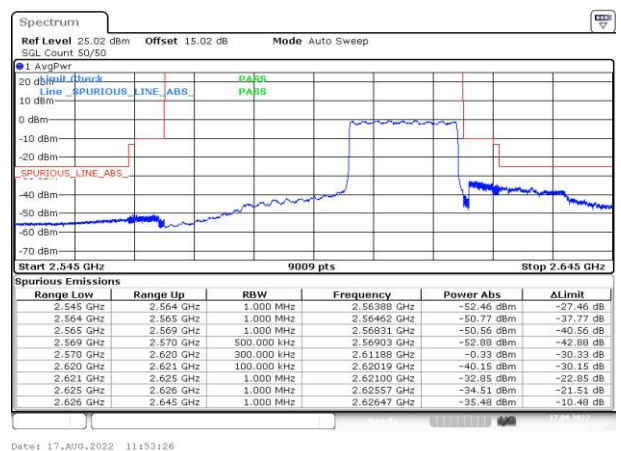


Fig.16

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band 38 Low Channel QPSK			
		5M	10M	15M	20M
-20	NV	0.015	-0.001	0.005	-0.001
-10	NV	0.002	-0.010	-0.010	0.005
0	NV	0.000	-0.005	-0.003	0.008
+10	NV	0.013	-0.014	-0.002	-0.003
+30	NV	0.014	-0.009	-0.007	0.011
+40	NV	0.002	-0.001	0.001	0.003
+55	NV	0.015	-0.006	-0.008	0.006
+20	LV	0.003	-0.008	0.009	0.005
+20	HV	0.009	-0.013	-0.006	0.000

Temperature(°C)	Voltage	Test Result (ppm) Band 38 High Channel QPSK			
		5M	10M	15M	20M
-20	NV	0.005	-0.007	-0.008	0.002
-10	NV	0.011	-0.002	-0.010	0.003
0	NV	0.011	-0.011	-0.011	0.009
+10	NV	-0.002	-0.008	-0.006	0.003
+30	NV	-0.001	-0.005	-0.013	-0.003
+40	NV	-0.003	-0.004	-0.008	0.000
+55	NV	0.003	-0.012	-0.013	-0.006
+20	LV	0.013	0.000	0.005	0.004
+20	HV	0.010	-0.002	0.005	0.000

8 Effective Radiated Power and Effective Isotropic Radiated Power

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	2572.5	37775	5	1	0	21.29	23.69	0.234
QPSK	2572.5	37775	5	1	12	21.26	23.66	0.232
QPSK	2572.5	37775	5	1	24	21.37	23.77	0.238
QPSK	2572.5	37775	5	12	0	20.24	22.64	0.184
QPSK	2572.5	37775	5	12	7	20.31	22.71	0.187
QPSK	2572.5	37775	5	12	13	20.36	22.76	0.189
QPSK	2572.5	37775	5	25	0	20.34	22.74	0.188
QPSK	2595	38000	5	1	0	21.14	23.54	0.226
QPSK	2595	38000	5	1	12	21.13	23.53	0.225
QPSK	2595	38000	5	1	24	21.21	23.61	0.230
QPSK	2595	38000	5	12	0	20.07	22.47	0.177
QPSK	2595	38000	5	12	7	20.12	22.52	0.179
QPSK	2595	38000	5	12	13	20.12	22.52	0.179
QPSK	2595	38000	5	25	0	20.09	22.49	0.177
QPSK	2617.5	38225	5	1	0	21.12	23.52	0.225
QPSK	2617.5	38225	5	1	12	21.30	23.70	0.234
QPSK	2617.5	38225	5	1	24	21.26	23.66	0.232
QPSK	2617.5	38225	5	12	0	20.31	22.71	0.187
QPSK	2617.5	38225	5	12	7	20.36	22.76	0.189
QPSK	2617.5	38225	5	12	13	20.31	22.71	0.187
QPSK	2617.5	38225	5	25	0	20.33	22.73	0.187

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	2572.5	37775	5	1	0	20.70	23.10	0.204
16QAM	2572.5	37775	5	1	12	20.69	23.09	0.204
16QAM	2572.5	37775	5	1	24	20.75	23.15	0.207
16QAM	2572.5	37775	5	12	0	19.35	21.75	0.150
16QAM	2572.5	37775	5	12	7	19.34	21.74	0.149
16QAM	2572.5	37775	5	12	13	19.42	21.82	0.152
16QAM	2572.5	37775	5	25	0	19.22	21.62	0.145
16QAM	2595	38000	5	1	0	20.52	22.92	0.196
16QAM	2595	38000	5	1	12	20.38	22.78	0.190
16QAM	2595	38000	5	1	24	20.53	22.93	0.196
16QAM	2595	38000	5	12	0	19.11	21.51	0.142
16QAM	2595	38000	5	12	7	19.18	21.58	0.144
16QAM	2595	38000	5	12	13	19.17	21.57	0.144
16QAM	2595	38000	5	25	0	19.18	21.58	0.144
16QAM	2617.5	38225	5	1	0	20.41	22.81	0.191
16QAM	2617.5	38225	5	1	12	20.49	22.89	0.195
16QAM	2617.5	38225	5	1	24	20.54	22.94	0.197
16QAM	2617.5	38225	5	12	0	19.22	21.62	0.145
16QAM	2617.5	38225	5	12	7	19.31	21.71	0.148
16QAM	2617.5	38225	5	12	13	19.36	21.76	0.150
16QAM	2617.5	38225	5	25	0	19.37	21.77	0.150

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	2575	37800	10	1	0	21.29	23.69	0.234
QPSK	2575	37800	10	1	25	21.28	23.68	0.233
QPSK	2575	37800	10	1	49	21.30	23.70	0.234
QPSK	2575	37800	10	25	0	20.21	22.61	0.182
QPSK	2575	37800	10	25	12	20.19	22.59	0.182
QPSK	2575	37800	10	25	25	20.17	22.57	0.181
QPSK	2575	37800	10	50	0	20.23	22.63	0.183
QPSK	2595	38000	10	1	0	21.08	23.48	0.223
QPSK	2595	38000	10	1	25	21.17	23.57	0.228
QPSK	2595	38000	10	1	49	21.13	23.53	0.225
QPSK	2595	38000	10	25	0	20.06	22.46	0.176
QPSK	2595	38000	10	25	12	20.18	22.58	0.181
QPSK	2595	38000	10	25	25	20.14	22.54	0.179
QPSK	2595	38000	10	50	0	20.12	22.52	0.179
QPSK	2615	38200	10	1	0	21.21	23.61	0.230
QPSK	2615	38200	10	1	25	21.27	23.67	0.233
QPSK	2615	38200	10	1	49	21.46	23.86	0.243
QPSK	2615	38200	10	25	0	20.26	22.66	0.185
QPSK	2615	38200	10	25	12	20.34	22.74	0.188
QPSK	2615	38200	10	25	25	20.36	22.76	0.189
QPSK	2615	38200	10	50	0	20.29	22.69	0.186

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	2575	37800	10	1	0	20.59	22.99	0.199
16QAM	2575	37800	10	1	25	20.60	23.00	0.200
16QAM	2575	37800	10	1	49	20.46	22.86	0.193
16QAM	2575	37800	10	25	0	19.27	21.67	0.147
16QAM	2575	37800	10	25	12	19.27	21.67	0.147
16QAM	2575	37800	10	25	25	19.24	21.64	0.146
16QAM	2575	37800	10	50	0	19.26	21.66	0.147
16QAM	2595	38000	10	1	0	20.45	22.85	0.193
16QAM	2595	38000	10	1	25	20.22	22.62	0.183
16QAM	2595	38000	10	1	49	20.52	22.92	0.196
16QAM	2595	38000	10	25	0	19.06	21.46	0.140
16QAM	2595	38000	10	25	12	19.13	21.53	0.142
16QAM	2595	38000	10	25	25	19.15	21.55	0.143
16QAM	2595	38000	10	50	0	19.13	21.53	0.142
16QAM	2615	38200	10	1	0	20.28	22.68	0.185
16QAM	2615	38200	10	1	25	20.38	22.78	0.190
16QAM	2615	38200	10	1	49	20.42	22.82	0.191
16QAM	2615	38200	10	25	0	19.23	21.63	0.146
16QAM	2615	38200	10	25	12	19.32	21.72	0.149
16QAM	2615	38200	10	25	25	19.28	21.68	0.147
16QAM	2615	38200	10	50	0	19.25	21.65	0.146

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	2577.5	37825	15	1	0	21.28	23.68	0.233
QPSK	2577.5	37825	15	1	37	21.39	23.79	0.239
QPSK	2577.5	37825	15	1	74	21.30	23.70	0.234
QPSK	2577.5	37825	15	36	0	20.26	22.66	0.185
QPSK	2577.5	37825	15	36	29	20.32	22.72	0.187
QPSK	2577.5	37825	15	36	30	20.31	22.71	0.187
QPSK	2577.5	37825	15	75	0	20.26	22.66	0.185
QPSK	2595	38000	15	1	0	21.24	23.64	0.231
QPSK	2595	38000	15	1	37	21.09	23.49	0.223
QPSK	2595	38000	15	1	74	21.19	23.59	0.229
QPSK	2595	38000	15	36	0	20.18	22.58	0.181
QPSK	2595	38000	15	36	29	20.24	22.64	0.184
QPSK	2595	38000	15	36	30	20.26	22.66	0.185
QPSK	2595	38000	15	75	0	20.19	22.59	0.182
QPSK	2612.5	38175	15	1	0	21.29	23.69	0.234
QPSK	2612.5	38175	15	1	37	21.21	23.61	0.230
QPSK	2612.5	38175	15	1	74	21.45	23.85	0.243
QPSK	2612.5	38175	15	36	0	20.32	22.72	0.187
QPSK	2612.5	38175	15	36	29	20.33	22.73	0.187
QPSK	2612.5	38175	15	36	30	20.36	22.76	0.189
QPSK	2612.5	38175	15	75	0	20.49	22.89	0.195

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	2577.5	37825	15	1	0	20.63	23.03	0.201
16QAM	2577.5	37825	15	1	37	20.44	22.84	0.192
16QAM	2577.5	37825	15	1	74	20.50	22.90	0.195
16QAM	2577.5	37825	15	36	0	19.23	21.63	0.146
16QAM	2577.5	37825	15	36	29	19.39	21.79	0.151
16QAM	2577.5	37825	15	36	30	19.31	21.71	0.148
16QAM	2577.5	37825	15	75	0	19.25	21.65	0.146
16QAM	2595	38000	15	1	0	20.65	23.05	0.202
16QAM	2595	38000	15	1	37	20.49	22.89	0.195
16QAM	2595	38000	15	1	74	20.60	23.00	0.200
16QAM	2595	38000	15	36	0	19.14	21.54	0.143
16QAM	2595	38000	15	36	29	19.24	21.64	0.146
16QAM	2595	38000	15	36	30	19.22	21.62	0.145
16QAM	2595	38000	15	75	0	19.21	21.61	0.145
16QAM	2612.5	38175	15	1	0	20.60	23.00	0.200
16QAM	2612.5	38175	15	1	37	20.46	22.86	0.193
16QAM	2612.5	38175	15	1	74	20.58	22.98	0.199
16QAM	2612.5	38175	15	36	0	19.36	21.76	0.150
16QAM	2612.5	38175	15	36	29	19.29	21.69	0.148
16QAM	2612.5	38175	15	36	30	19.36	21.76	0.150
16QAM	2612.5	38175	15	75	0	19.46	21.86	0.153

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	2580	37850	20	1	0	21.36	23.76	0.238
QPSK	2580	37850	20	1	49	21.26	23.66	0.232
QPSK	2580	37850	20	1	99	21.26	23.66	0.232
QPSK	2580	37850	20	50	0	20.38	22.78	0.190
QPSK	2580	37850	20	50	24	20.40	22.80	0.191
QPSK	2580	37850	20	50	50	20.27	22.67	0.185
QPSK	2580	37850	20	100	0	20.36	22.76	0.189
QPSK	2595	38000	20	1	0	21.33	23.73	0.236
QPSK	2595	38000	20	1	49	21.19	23.59	0.229
QPSK	2595	38000	20	1	99	21.32	23.72	0.236
QPSK	2595	38000	20	50	0	20.14	22.54	0.179
QPSK	2595	38000	20	50	24	20.27	22.67	0.185
QPSK	2595	38000	20	50	50	20.26	22.66	0.185
QPSK	2595	38000	20	100	0	20.22	22.62	0.183
QPSK	2610	38150	20	1	0	21.32	23.72	0.236
QPSK	2610	38150	20	1	49	21.25	23.65	0.232
QPSK	2610	38150	20	1	99	21.46	23.86	0.243
QPSK	2610	38150	20	50	0	20.42	22.82	0.191
QPSK	2610	38150	20	50	24	20.42	22.82	0.191
QPSK	2610	38150	20	50	50	20.45	22.85	0.193
QPSK	2610	38150	20	100	0	20.45	22.85	0.193

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	2580	37850	20	1	0	20.19	22.59	0.182
16QAM	2580	37850	20	1	49	20.46	22.86	0.193
16QAM	2580	37850	20	1	99	20.40	22.80	0.191
16QAM	2580	37850	20	50	0	19.31	21.71	0.148
16QAM	2580	37850	20	50	24	19.32	21.72	0.149
16QAM	2580	37850	20	50	50	19.22	21.62	0.145
16QAM	2580	37850	20	100	0	19.37	21.77	0.150
16QAM	2595	38000	20	1	0	20.64	23.04	0.201
16QAM	2595	38000	20	1	49	20.53	22.93	0.196
16QAM	2595	38000	20	1	99	20.69	23.09	0.204
16QAM	2595	38000	20	50	0	19.19	21.59	0.144
16QAM	2595	38000	20	50	24	19.19	21.59	0.144
16QAM	2595	38000	20	50	50	19.28	21.68	0.147
16QAM	2595	38000	20	100	0	19.13	21.53	0.142
16QAM	2610	38150	20	1	0	20.32	22.72	0.187
16QAM	2610	38150	20	1	49	20.14	22.54	0.179
16QAM	2610	38150	20	1	99	20.28	22.68	0.185
16QAM	2610	38150	20	50	0	19.45	21.85	0.153
16QAM	2610	38150	20	50	24	19.50	21.90	0.155
16QAM	2610	38150	20	50	50	19.49	21.89	0.155
16QAM	2610	38150	20	100	0	19.43	21.83	0.152