

5 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
7	2510	20850	20	1	0	Fig.1
7	2535	21100	20	1	0	Fig.2
7	2560	21350	20	1	0	Fig.3

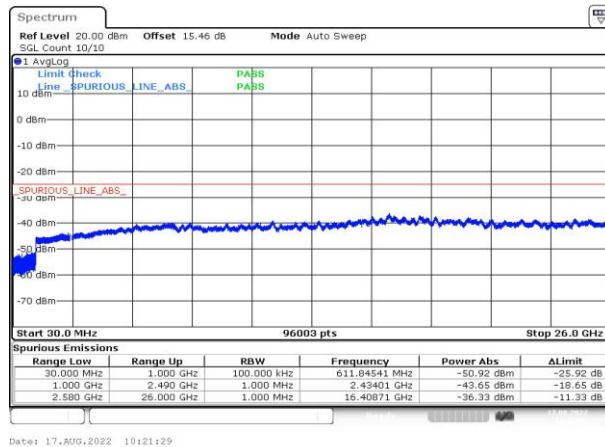


Fig.1

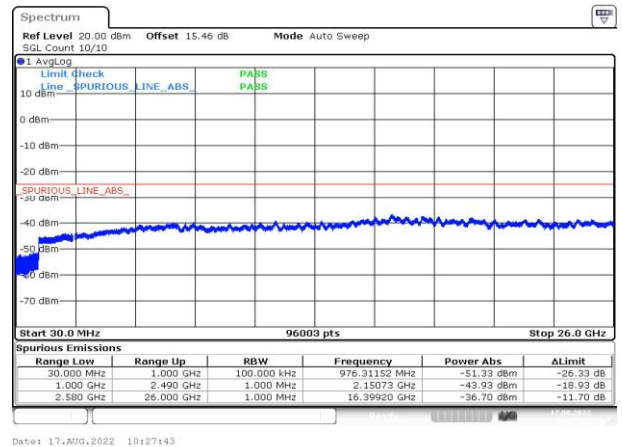


Fig.2

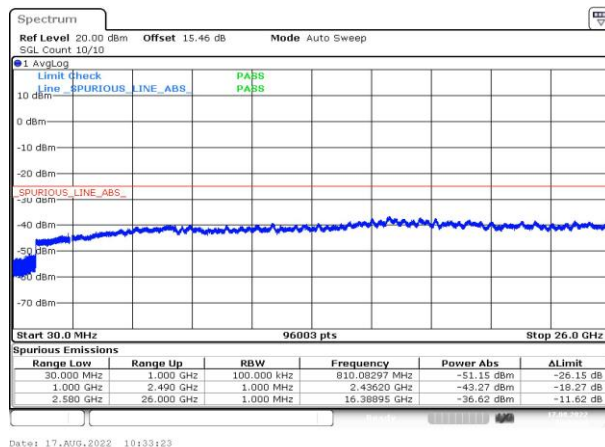
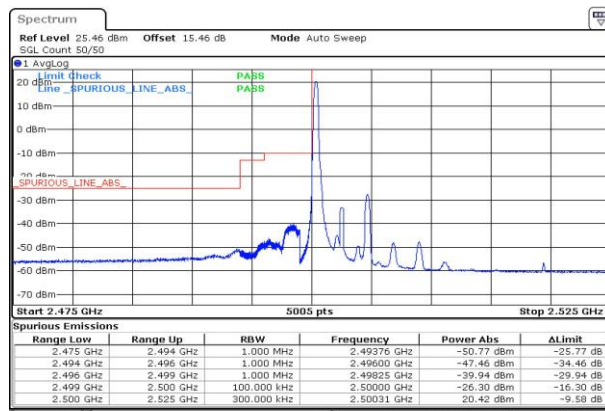


Fig.3

6 Band Edges Compliance

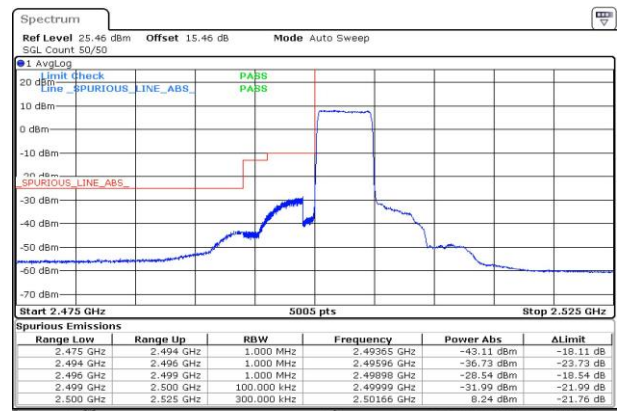
Band	Mode	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
7	QPSK	2502.5	20775	5	1	0	Fig.1
7	QPSK	2502.5	20775	5	25	0	Fig.2
7	QPSK	2567.5	21425	5	1	24	Fig.3
7	QPSK	2567.5	21425	5	25	0	Fig.4
7	QPSK	2505	20800	10	1	0	Fig.5
7	QPSK	2505	20800	10	50	0	Fig.6
7	QPSK	2565	21400	10	1	49	Fig.7
7	QPSK	2565	21400	10	50	0	Fig.8
7	QPSK	2507.5	20825	15	1	0	Fig.9
7	QPSK	2507.5	20825	15	75	0	Fig.10
7	QPSK	2562.5	21375	15	1	74	Fig.11
7	QPSK	2562.5	21375	15	75	0	Fig.12
7	QPSK	2510	20850	20	1	0	Fig.13
7	QPSK	2510	20850	20	100	0	Fig.14
7	QPSK	2560	21350	20	1	99	Fig.15
7	QPSK	2560	21350	20	100	0	Fig.16

Test Mode: QPSK



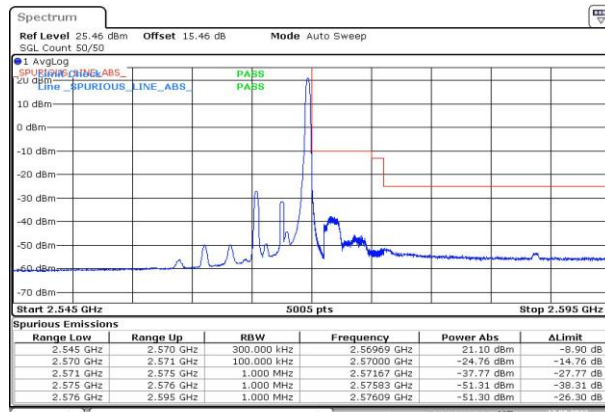
Date: 17.AUG.2022 09:30:38

Fig.1



Date: 17.AUG.2022 09:30:51

Fig.2



Date: 17.AUG.2022 09:41:40



Date: 17.AUG.2022 09:41:53

Fig.3

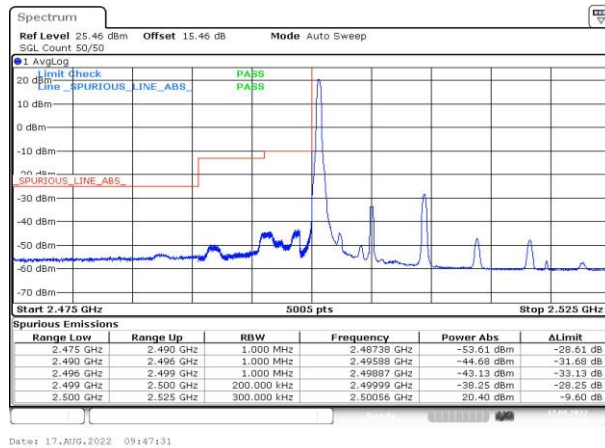


Fig.4

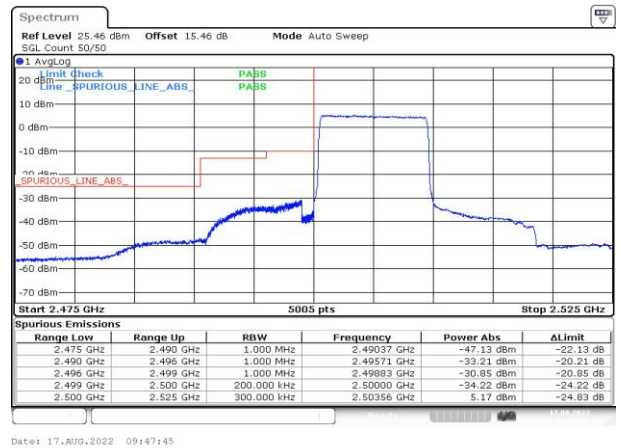


Fig.5

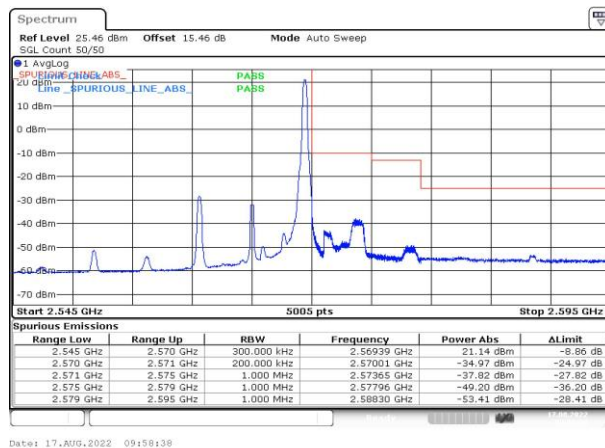


Fig.6



Fig.7

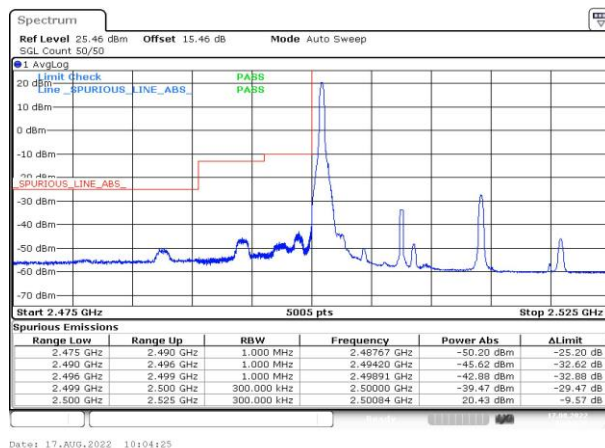


Fig.8

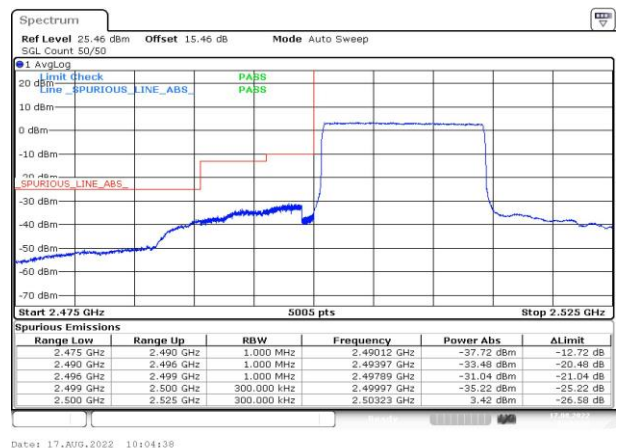


Fig.9

Fig.10

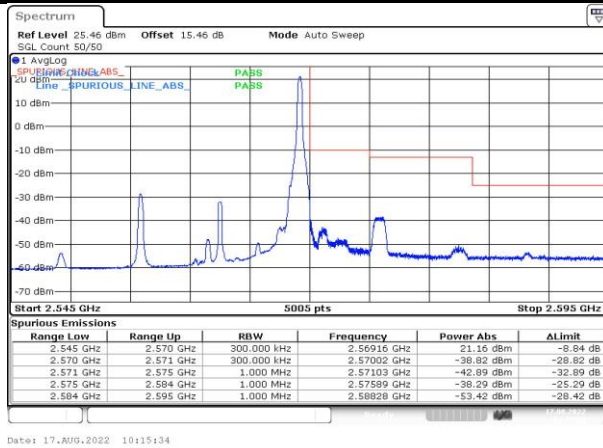


Fig.11



Fig.12

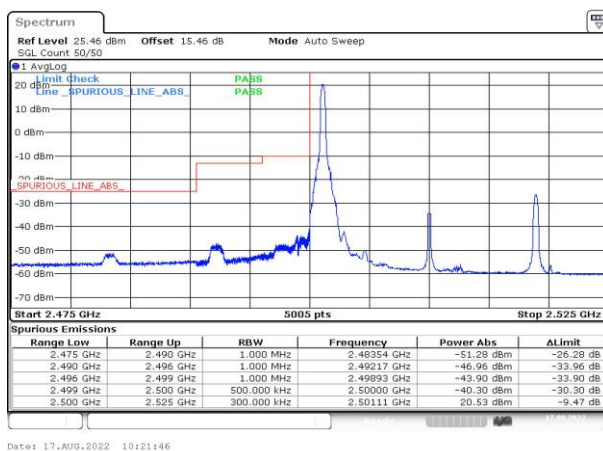


Fig.13

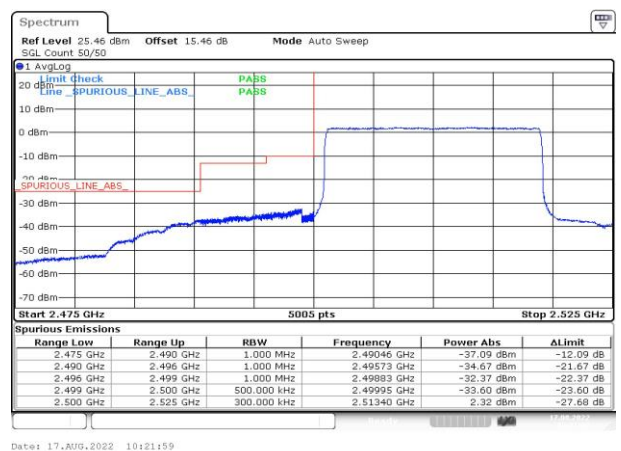


Fig.14

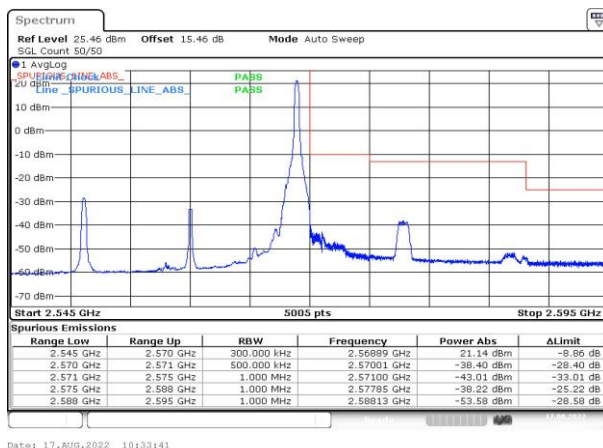


Fig.15



Fig.16

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band 7 Low Channel QPSK			
		5M	10M	15M	20M
-20	NV	0.004	-0.004	-0.003	-0.002
-10	NV	0.012	-0.005	0.005	-0.005
0	NV	0.005	-0.015	0.002	-0.003
+10	NV	0.010	0.019	0.001	-0.007
+30	NV	0.002	-0.006	0.000	-0.010
+40	NV	0.008	-0.015	-0.005	-0.003
+55	NV	-0.002	-0.015	-0.010	-0.003
+20	LV	0.015	-0.004	-0.011	-0.009
+20	HV	0.013	-0.005	0.000	-0.002

Temperature(°C)	Voltage	Test Result (ppm) Band 7 High Channel QPSK			
		5M	10M	15M	20M
-20	NV	-0.003	-0.010	0.007	-0.012
-10	NV	-0.007	0.007	0.007	-0.019
0	NV	-0.002	0.009	0.004	-0.016
+10	NV	0.005	0.008	0.000	-0.021
+30	NV	-0.005	-0.003	0.003	-0.011
+40	NV	-0.005	0.006	-0.002	-0.015
+55	NV	0.000	-0.004	0.008	-0.014
+20	LV	0.000	0.002	0.000	-0.019
+20	HV	-0.007	0.008	-0.002	-0.006

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	2502.5	20775	5	1	0	20.63	23.23	0.210
QPSK	2502.5	20775	5	1	12	20.66	23.26	0.212
QPSK	2502.5	20775	5	1	24	20.77	23.37	0.217
QPSK	2502.5	20775	5	12	0	19.70	22.30	0.170
QPSK	2502.5	20775	5	12	7	19.77	22.37	0.173
QPSK	2502.5	20775	5	12	13	19.74	22.34	0.171
QPSK	2502.5	20775	5	25	0	19.78	22.38	0.173
QPSK	2535	21100	5	1	0	21.03	23.63	0.231
QPSK	2535	21100	5	1	12	21.08	23.68	0.233
QPSK	2535	21100	5	1	24	21.10	23.70	0.234
QPSK	2535	21100	5	12	0	20.03	22.63	0.183
QPSK	2535	21100	5	12	7	20.15	22.75	0.188
QPSK	2535	21100	5	12	13	20.08	22.68	0.185
QPSK	2535	21100	5	25	0	20.00	22.60	0.182
QPSK	2567.5	21425	5	1	0	21.49	24.09	0.256
QPSK	2567.5	21425	5	1	12	21.64	24.24	0.265
QPSK	2567.5	21425	5	1	24	21.66	24.26	0.267
QPSK	2567.5	21425	5	12	0	20.53	23.13	0.206
QPSK	2567.5	21425	5	12	7	20.63	23.23	0.210
QPSK	2567.5	21425	5	12	13	20.62	23.22	0.210
QPSK	2567.5	21425	5	25	0	20.61	23.21	0.209

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	2502.5	20775	5	1	0	19.73	22.33	0.171
16QAM	2502.5	20775	5	1	12	19.85	22.45	0.176
16QAM	2502.5	20775	5	1	24	19.87	22.47	0.177
16QAM	2502.5	20775	5	12	0	18.69	21.29	0.135
16QAM	2502.5	20775	5	12	7	18.80	21.40	0.138
16QAM	2502.5	20775	5	12	13	18.79	21.39	0.138
16QAM	2502.5	20775	5	25	0	18.73	21.33	0.136
16QAM	2535	21100	5	1	0	20.37	22.97	0.198
16QAM	2535	21100	5	1	12	20.37	22.97	0.198
16QAM	2535	21100	5	1	24	20.48	23.08	0.203
16QAM	2535	21100	5	12	0	19.04	21.64	0.146
16QAM	2535	21100	5	12	7	19.09	21.69	0.148
16QAM	2535	21100	5	12	13	19.03	21.63	0.146
16QAM	2535	21100	5	25	0	19.04	21.64	0.146
16QAM	2567.5	21425	5	1	0	20.65	23.25	0.211
16QAM	2567.5	21425	5	1	12	20.85	23.45	0.221
16QAM	2567.5	21425	5	1	24	20.95	23.55	0.226
16QAM	2567.5	21425	5	12	0	19.51	22.11	0.163
16QAM	2567.5	21425	5	12	7	19.54	22.14	0.164
16QAM	2567.5	21425	5	12	13	19.58	22.18	0.165
16QAM	2567.5	21425	5	25	0	19.57	22.17	0.165

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	2505	20800	10	1	0	20.64	23.24	0.211
QPSK	2505	20800	10	1	25	20.63	23.23	0.210
QPSK	2505	20800	10	1	49	20.73	23.33	0.215
QPSK	2505	20800	10	25	0	19.72	22.32	0.171
QPSK	2505	20800	10	25	12	19.76	22.36	0.172
QPSK	2505	20800	10	25	25	19.75	22.35	0.172
QPSK	2505	20800	10	50	0	19.67	22.27	0.169
QPSK	2535	21100	10	1	0	20.99	23.59	0.229
QPSK	2535	21100	10	1	25	21.00	23.60	0.229
QPSK	2535	21100	10	1	49	21.04	23.64	0.231
QPSK	2535	21100	10	25	0	20.06	22.66	0.185
QPSK	2535	21100	10	25	12	20.07	22.67	0.185
QPSK	2535	21100	10	25	25	20.06	22.66	0.185
QPSK	2535	21100	10	50	0	20.08	22.68	0.185
QPSK	2565	21400	10	1	0	21.36	23.96	0.249
QPSK	2565	21400	10	1	25	21.44	24.04	0.254
QPSK	2565	21400	10	1	49	21.47	24.07	0.255
QPSK	2565	21400	10	25	0	20.48	23.08	0.203
QPSK	2565	21400	10	25	12	20.54	23.14	0.206
QPSK	2565	21400	10	25	25	20.57	23.17	0.207
QPSK	2565	21400	10	50	0	20.55	23.15	0.207

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	2505	20800	10	1	0	20.23	22.83	0.192
16QAM	2505	20800	10	1	25	20.22	22.82	0.191
16QAM	2505	20800	10	1	49	20.33	22.93	0.196
16QAM	2505	20800	10	25	0	18.73	21.33	0.136
16QAM	2505	20800	10	25	12	18.73	21.33	0.136
16QAM	2505	20800	10	25	25	18.75	21.35	0.136
16QAM	2505	20800	10	50	0	18.69	21.29	0.135
16QAM	2535	21100	10	1	0	20.18	22.78	0.190
16QAM	2535	21100	10	1	25	20.17	22.77	0.189
16QAM	2535	21100	10	1	49	20.23	22.83	0.192
16QAM	2535	21100	10	25	0	19.07	21.67	0.147
16QAM	2535	21100	10	25	12	19.16	21.76	0.150
16QAM	2535	21100	10	25	25	19.11	21.71	0.148
16QAM	2535	21100	10	50	0	19.02	21.62	0.145
16QAM	2565	21400	10	1	0	20.67	23.27	0.212
16QAM	2565	21400	10	1	25	20.67	23.27	0.212
16QAM	2565	21400	10	1	49	20.79	23.39	0.218
16QAM	2565	21400	10	25	0	19.48	22.08	0.161
16QAM	2565	21400	10	25	12	19.57	22.17	0.165
16QAM	2565	21400	10	25	25	19.65	22.25	0.168
16QAM	2565	21400	10	50	0	19.56	22.16	0.164

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	2507.5	20825	15	1	0	20.61	23.21	0.209
QPSK	2507.5	20825	15	1	37	20.67	23.27	0.212
QPSK	2507.5	20825	15	1	74	20.83	23.43	0.220
QPSK	2507.5	20825	15	36	0	19.74	22.34	0.171
QPSK	2507.5	20825	15	36	29	19.78	22.38	0.173
QPSK	2507.5	20825	15	36	30	19.75	22.35	0.172
QPSK	2507.5	20825	15	75	0	19.71	22.31	0.170
QPSK	2535	21100	15	1	0	20.93	23.53	0.225
QPSK	2535	21100	15	1	37	20.95	23.55	0.226
QPSK	2535	21100	15	1	74	21.09	23.69	0.234
QPSK	2535	21100	15	36	0	20.06	22.66	0.185
QPSK	2535	21100	15	36	29	20.06	22.66	0.185
QPSK	2535	21100	15	36	30	20.05	22.65	0.184
QPSK	2535	21100	15	75	0	20.04	22.64	0.184
QPSK	2562.5	21375	15	1	0	21.33	23.93	0.247
QPSK	2562.5	21375	15	1	37	21.39	23.99	0.251
QPSK	2562.5	21375	15	1	74	21.50	24.10	0.257
QPSK	2562.5	21375	15	36	0	20.37	22.97	0.198
QPSK	2562.5	21375	15	36	29	20.53	23.13	0.206
QPSK	2562.5	21375	15	36	30	20.52	23.12	0.205
QPSK	2562.5	21375	15	75	0	20.48	23.08	0.203

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	2507.5	20825	15	1	0	20.29	22.89	0.195
16QAM	2507.5	20825	15	1	37	20.35	22.95	0.197
16QAM	2507.5	20825	15	1	74	20.43	23.03	0.201
16QAM	2507.5	20825	15	36	0	18.76	21.36	0.137
16QAM	2507.5	20825	15	36	29	18.86	21.46	0.140
16QAM	2507.5	20825	15	36	30	18.77	21.37	0.137
16QAM	2507.5	20825	15	75	0	18.80	21.40	0.138
16QAM	2535	21100	15	1	0	20.18	22.78	0.190
16QAM	2535	21100	15	1	37	20.13	22.73	0.187
16QAM	2535	21100	15	1	74	20.36	22.96	0.198
16QAM	2535	21100	15	36	0	19.02	21.62	0.145
16QAM	2535	21100	15	36	29	19.16	21.76	0.150
16QAM	2535	21100	15	36	30	19.13	21.73	0.149
16QAM	2535	21100	15	75	0	19.04	21.64	0.146
16QAM	2562.5	21375	15	1	0	20.73	23.33	0.215
16QAM	2562.5	21375	15	1	37	20.83	23.43	0.220
16QAM	2562.5	21375	15	1	74	20.81	23.41	0.219
16QAM	2562.5	21375	15	36	0	19.44	22.04	0.160
16QAM	2562.5	21375	15	36	29	19.53	22.13	0.163
16QAM	2562.5	21375	15	36	30	19.53	22.13	0.163
16QAM	2562.5	21375	15	75	0	19.42	22.02	0.159

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	2510	20850	20	1	0	20.58	23.18	0.208
QPSK	2510	20850	20	1	49	20.70	23.30	0.214
QPSK	2510	20850	20	1	99	20.97	23.57	0.228
QPSK	2510	20850	20	50	0	19.66	22.26	0.168
QPSK	2510	20850	20	50	24	19.73	22.33	0.171
QPSK	2510	20850	20	50	50	19.88	22.48	0.177
QPSK	2510	20850	20	100	0	19.78	22.38	0.173
QPSK	2535	21100	20	1	0	21.08	23.68	0.233
QPSK	2535	21100	20	1	49	20.98	23.58	0.228
QPSK	2535	21100	20	1	99	21.13	23.73	0.236
QPSK	2535	21100	20	50	0	20.06	22.66	0.185
QPSK	2535	21100	20	50	24	20.10	22.70	0.186
QPSK	2535	21100	20	50	50	20.06	22.66	0.185
QPSK	2535	21100	20	100	0	20.07	22.67	0.185
QPSK	2560	21350	20	1	0	21.25	23.85	0.243
QPSK	2560	21350	20	1	49	21.32	23.92	0.247
QPSK	2560	21350	20	1	99	21.65	24.25	0.266
QPSK	2560	21350	20	50	0	20.36	22.96	0.198
QPSK	2560	21350	20	50	24	20.46	23.06	0.202
QPSK	2560	21350	20	50	50	20.51	23.11	0.205
QPSK	2560	21350	20	100	0	20.46	23.06	0.202

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	2510	20850	20	1	0	20.04	22.64	0.184
16QAM	2510	20850	20	1	49	20.10	22.70	0.186
16QAM	2510	20850	20	1	99	20.31	22.91	0.195
16QAM	2510	20850	20	50	0	18.70	21.30	0.135
16QAM	2510	20850	20	50	24	18.80	21.40	0.138
16QAM	2510	20850	20	50	50	18.89	21.49	0.141
16QAM	2510	20850	20	100	0	18.79	21.39	0.138
16QAM	2535	21100	20	1	0	20.35	22.95	0.197
16QAM	2535	21100	20	1	49	20.23	22.83	0.192
16QAM	2535	21100	20	1	99	20.32	22.92	0.196
16QAM	2535	21100	20	50	0	19.06	21.66	0.147
16QAM	2535	21100	20	50	24	19.05	21.65	0.146
16QAM	2535	21100	20	50	50	19.03	21.63	0.146
16QAM	2535	21100	20	100	0	19.06	21.66	0.147
16QAM	2560	21350	20	1	0	20.65	23.25	0.211
16QAM	2560	21350	20	1	49	20.71	23.31	0.214
16QAM	2560	21350	20	1	99	20.97	23.57	0.228
16QAM	2560	21350	20	50	0	19.38	21.98	0.158
16QAM	2560	21350	20	50	24	19.42	22.02	0.159
16QAM	2560	21350	20	50	50	19.52	22.12	0.163
16QAM	2560	21350	20	100	0	19.53	22.13	0.163