

Test Mode: QPSK

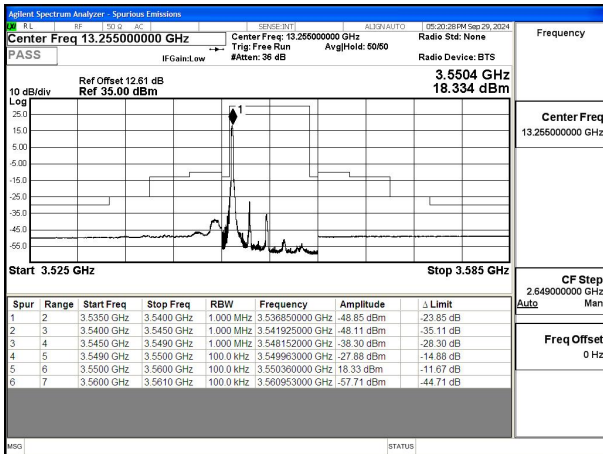


Fig.1

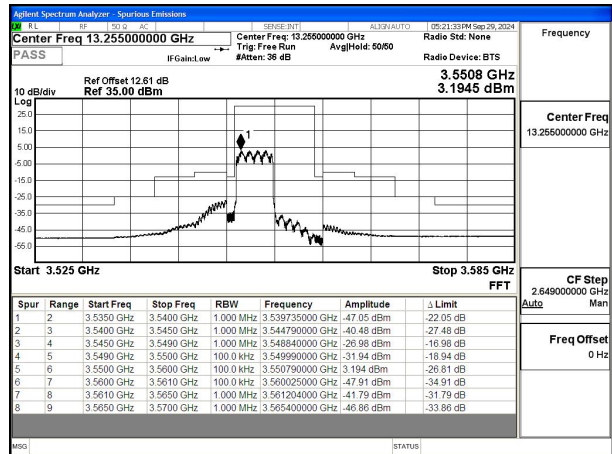


Fig.2

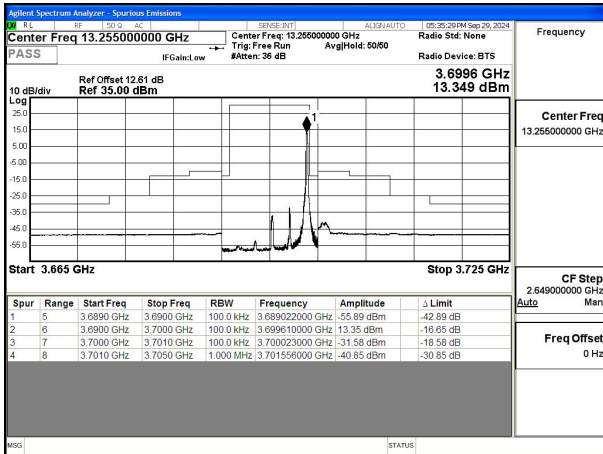


Fig.3

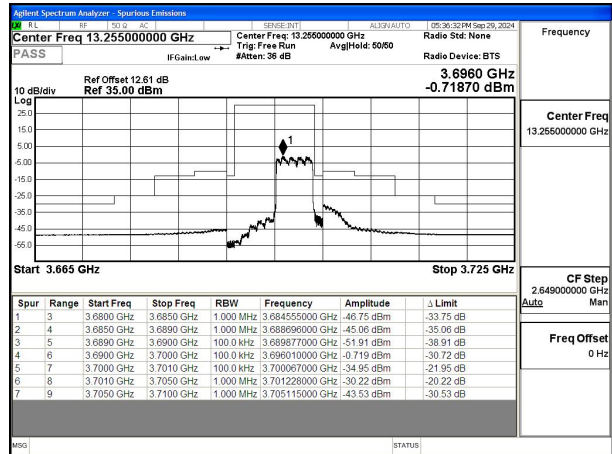


Fig.4

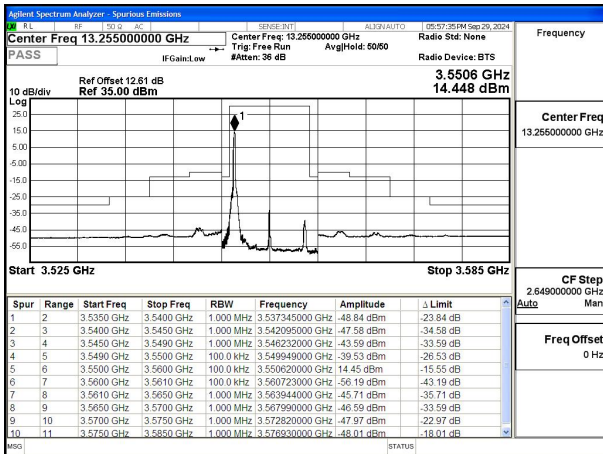


Fig.5

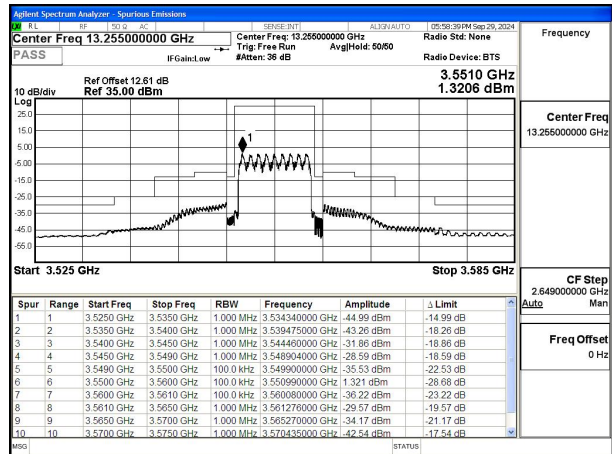


Fig.6

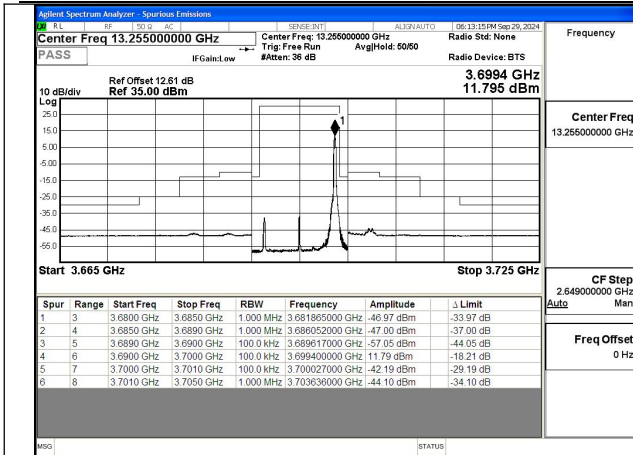


Fig.7

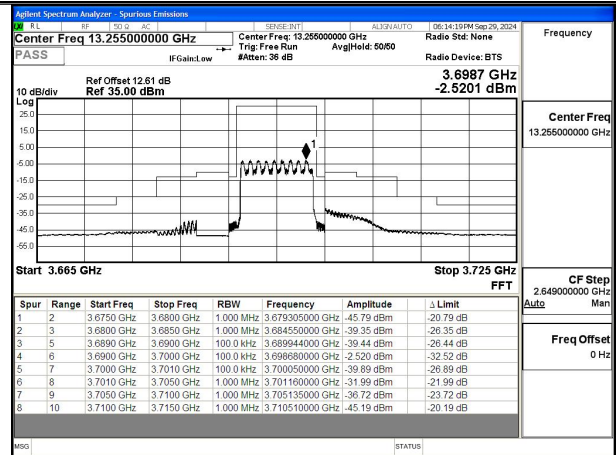


Fig.8

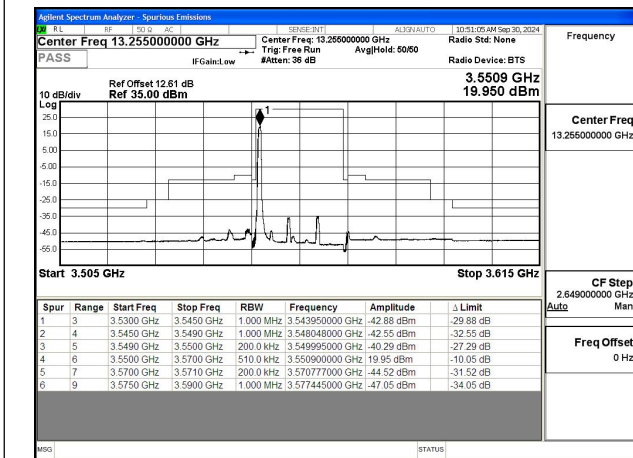


Fig.9

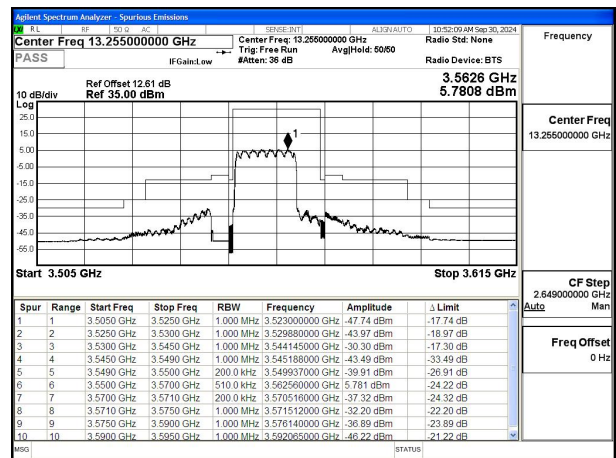


Fig.10

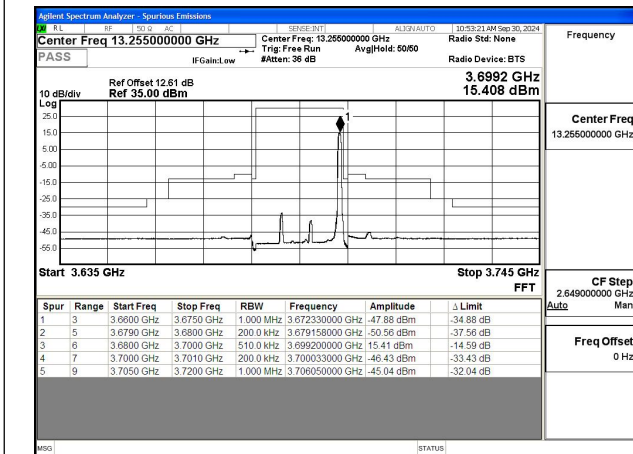


Fig.11

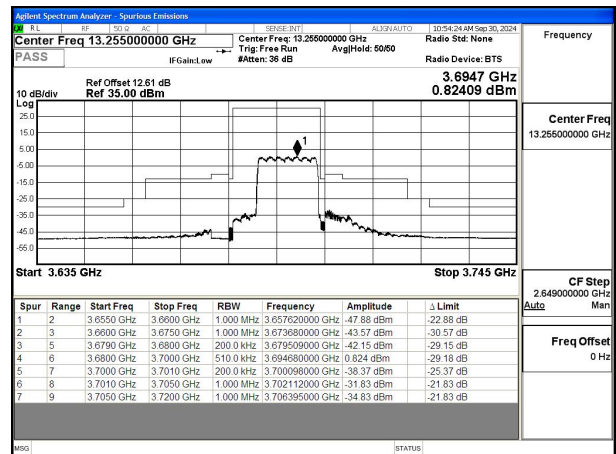


Fig.12

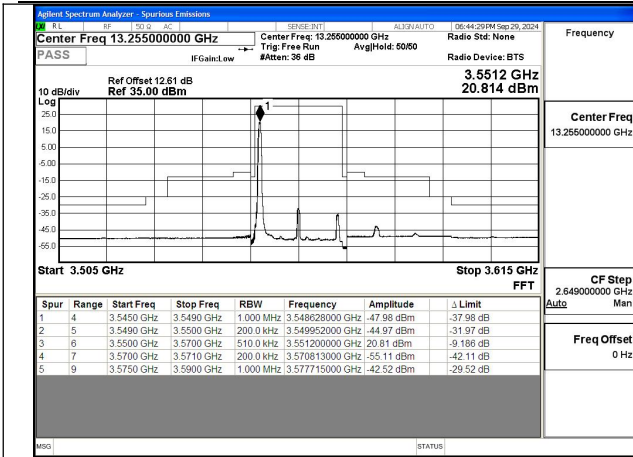


Fig.13

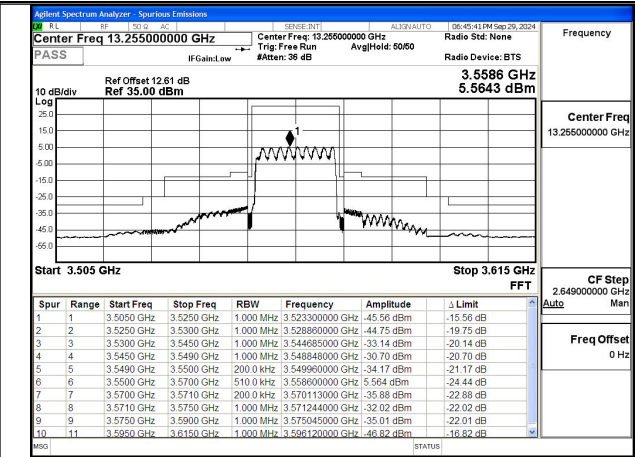


Fig.14

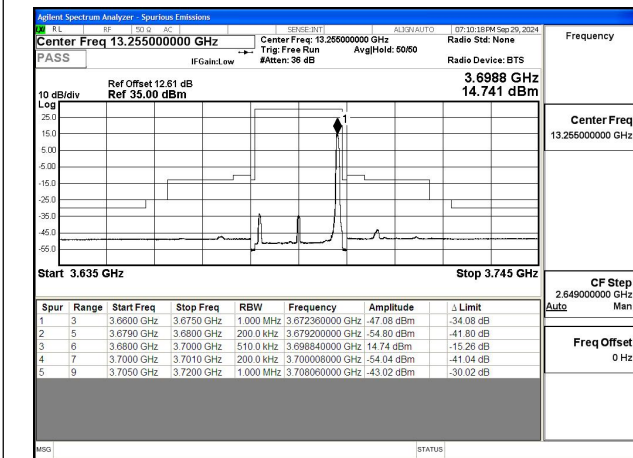


Fig.15

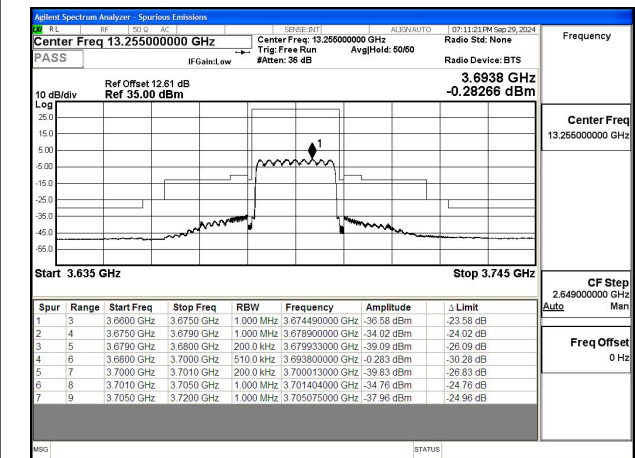


Fig.16

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band 48 Low Channel QPSK			
		5M	10M	15M	20M
-30	NV	-0.281	-0.001	0.002	-0.281
-20	NV	0.002	-0.281	-0.001	-0.281
-10	NV	-0.281	0.001	-0.281	-0.281
0	NV	-0.001	0.001	0.000	0.003
+10	NV	-0.281	-0.281	-0.281	-0.001
+20	NV	-0.281	0.000	-0.001	-0.001
+30	NV	0.002	-0.001	-0.281	-0.001
+40	NV	-0.281	-0.003	0.002	-0.001
+50	NV	0.001	0.001	-0.003	-0.281
+20	LV	0.002	0.002	-0.281	0.001
+20	HV	-0.002	-0.281	-0.281	-0.001

Temperature(°C)	Voltage	Test Result (ppm) Band 48 High Channel QPSK			
		5M	10M	15M	20M
-30	NV	-0.270	-0.270	-0.001	-0.271
-20	NV	0.002	-0.270	0.000	-0.002
-10	NV	-0.270	-0.270	0.002	-0.271
0	NV	-0.270	-0.270	-0.002	0.002
+10	NV	0.001	0.001	-0.271	0.000
+20	NV	-0.270	0.002	0.002	-0.271
+30	NV	-0.270	-0.270	0.002	0.000
+40	NV	0.002	-0.270	-0.271	-0.271
+50	NV	-0.001	-0.270	0.001	-0.002
+20	LV	-0.270	-0.270	-0.002	-0.001
+20	HV	0.003	0.001	-0.271	-0.271

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	3552.5	55265	5	1	0	23.69	21.69	0.148
QPSK	3552.5	55265	5	1	12	23.68	21.68	0.147
QPSK	3552.5	55265	5	1	24	23.63	21.63	0.146
QPSK	3552.5	55265	5	12	0	23.04	21.04	0.127
QPSK	3552.5	55265	5	12	7	23.03	21.03	0.127
QPSK	3552.5	55265	5	12	13	23.07	21.07	0.128
QPSK	3552.5	55265	5	25	0	22.99	20.99	0.126
QPSK	3625	55990	5	1	0	22.95	20.95	0.124
QPSK	3625	55990	5	1	12	22.93	20.93	0.124
QPSK	3625	55990	5	1	24	23.10	21.10	0.129
QPSK	3625	55990	5	12	0	22.38	20.38	0.109
QPSK	3625	55990	5	12	7	22.35	20.35	0.108
QPSK	3625	55990	5	12	13	22.35	20.35	0.108
QPSK	3625	55990	5	25	0	22.49	20.49	0.112
QPSK	3697.5	56715	5	1	0	23.80	21.80	0.151
QPSK	3697.5	56715	5	1	12	23.73	21.73	0.149
QPSK	3697.5	56715	5	1	24	23.74	21.74	0.149
QPSK	3697.5	56715	5	12	0	23.15	21.15	0.130
QPSK	3697.5	56715	5	12	7	23.01	21.01	0.126
QPSK	3697.5	56715	5	12	13	22.99	20.99	0.126
QPSK	3697.5	56715	5	25	0	23.06	21.06	0.128

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	3552.5	55265	5	1	0	23.12	21.12	0.129
16QAM	3552.5	55265	5	1	12	23.23	21.23	0.133
16QAM	3552.5	55265	5	1	24	23.07	21.07	0.128
16QAM	3552.5	55265	5	12	0	22.04	20.04	0.101
16QAM	3552.5	55265	5	12	7	22.04	20.04	0.101
16QAM	3552.5	55265	5	12	13	21.94	19.94	0.099
16QAM	3552.5	55265	5	25	0	21.98	19.98	0.100
16QAM	3625	55990	5	1	0	22.55	20.55	0.114
16QAM	3625	55990	5	1	12	22.56	20.56	0.114
16QAM	3625	55990	5	1	24	22.63	20.63	0.116
16QAM	3625	55990	5	12	0	21.46	19.46	0.088
16QAM	3625	55990	5	12	7	21.46	19.46	0.088
16QAM	3625	55990	5	12	13	21.46	19.46	0.088
16QAM	3625	55990	5	25	0	21.40	19.40	0.087
16QAM	3697.5	56715	5	1	0	23.26	21.26	0.134
16QAM	3697.5	56715	5	1	12	23.24	21.24	0.133
16QAM	3697.5	56715	5	1	24	23.27	21.27	0.134
16QAM	3697.5	56715	5	12	0	22.15	20.15	0.104
16QAM	3697.5	56715	5	12	7	22.14	20.14	0.103
16QAM	3697.5	56715	5	12	13	22.12	20.12	0.103
16QAM	3697.5	56715	5	25	0	22.19	20.19	0.104

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	3555	55290	10	1	0	23.39	21.39	0.138
QPSK	3555	55290	10	1	25	23.48	21.48	0.141
QPSK	3555	55290	10	1	49	23.66	21.66	0.147
QPSK	3555	55290	10	25	0	22.85	20.85	0.122
QPSK	3555	55290	10	25	12	22.90	20.90	0.123
QPSK	3555	55290	10	25	25	22.90	20.90	0.123
QPSK	3555	55290	10	50	0	22.94	20.94	0.124
QPSK	3625	55990	10	1	0	22.78	20.78	0.120
QPSK	3625	55990	10	1	25	22.96	20.96	0.125
QPSK	3625	55990	10	1	49	22.99	20.99	0.126
QPSK	3625	55990	10	25	0	22.29	20.29	0.107
QPSK	3625	55990	10	25	12	22.33	20.33	0.108
QPSK	3625	55990	10	25	25	22.29	20.29	0.107
QPSK	3625	55990	10	50	0	22.36	20.36	0.109
QPSK	3695	56690	10	1	0	23.52	21.52	0.142
QPSK	3695	56690	10	1	25	23.58	21.58	0.144
QPSK	3695	56690	10	1	49	23.68	21.68	0.147
QPSK	3695	56690	10	25	0	22.83	20.83	0.121
QPSK	3695	56690	10	25	12	22.84	20.84	0.121
QPSK	3695	56690	10	25	25	22.86	20.86	0.122
QPSK	3695	56690	10	50	0	22.96	20.96	0.125

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	3555	55290	10	1	0	22.95	20.95	0.124
16QAM	3555	55290	10	1	25	23.04	21.04	0.127
16QAM	3555	55290	10	1	49	23.09	21.09	0.129
16QAM	3555	55290	10	25	0	21.83	19.83	0.096
16QAM	3555	55290	10	25	12	21.92	19.92	0.098
16QAM	3555	55290	10	25	25	21.92	19.92	0.098
16QAM	3555	55290	10	50	0	21.99	19.99	0.100
16QAM	3625	55990	10	1	0	22.44	20.44	0.111
16QAM	3625	55990	10	1	25	22.48	20.48	0.112
16QAM	3625	55990	10	1	49	22.53	20.53	0.113
16QAM	3625	55990	10	25	0	21.25	19.25	0.084
16QAM	3625	55990	10	25	12	21.28	19.28	0.085
16QAM	3625	55990	10	25	25	21.43	19.43	0.088
16QAM	3625	55990	10	50	0	21.33	19.33	0.086
16QAM	3695	56690	10	1	0	23.09	21.09	0.129
16QAM	3695	56690	10	1	25	22.98	20.98	0.125
16QAM	3695	56690	10	1	49	23.09	21.09	0.129
16QAM	3695	56690	10	25	0	21.99	19.99	0.100
16QAM	3695	56690	10	25	12	21.92	19.92	0.098
16QAM	3695	56690	10	25	25	21.96	19.96	0.099
16QAM	3695	56690	10	50	0	22.00	20.00	0.100

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	3557.5	55315	15	1	0	23.43	21.43	0.139
QPSK	3557.5	55315	15	1	37	23.52	21.52	0.142
QPSK	3557.5	55315	15	1	74	23.62	21.62	0.145
QPSK	3557.5	55315	15	36	0	22.79	20.79	0.120
QPSK	3557.5	55315	15	36	29	22.96	20.96	0.125
QPSK	3557.5	55315	15	36	30	22.95	20.95	0.124
QPSK	3557.5	55315	15	75	0	22.96	20.96	0.125
QPSK	3625	55990	15	1	0	22.83	20.83	0.121
QPSK	3625	55990	15	1	37	23.03	21.03	0.127
QPSK	3625	55990	15	1	74	23.14	21.14	0.130
QPSK	3625	55990	15	36	0	22.17	20.17	0.104
QPSK	3625	55990	15	36	29	22.34	20.34	0.108
QPSK	3625	55990	15	36	30	22.33	20.33	0.108
QPSK	3625	55990	15	75	0	22.16	20.16	0.104
QPSK	3692.5	56665	15	1	0	23.39	21.39	0.138
QPSK	3692.5	56665	15	1	37	23.65	21.65	0.146
QPSK	3692.5	56665	15	1	74	23.62	21.62	0.145
QPSK	3692.5	56665	15	36	0	22.76	20.76	0.119
QPSK	3692.5	56665	15	36	29	22.93	20.93	0.124
QPSK	3692.5	56665	15	36	30	22.92	20.92	0.124
QPSK	3692.5	56665	15	75	0	22.76	20.76	0.119

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	3557.5	55315	15	1	0	22.93	20.93	0.124
16QAM	3557.5	55315	15	1	37	23.04	21.04	0.127
16QAM	3557.5	55315	15	1	74	23.14	21.14	0.130
16QAM	3557.5	55315	15	36	0	21.81	19.81	0.096
16QAM	3557.5	55315	15	36	29	21.98	19.98	0.100
16QAM	3557.5	55315	15	36	30	21.87	19.87	0.097
16QAM	3557.5	55315	15	75	0	21.91	19.91	0.098
16QAM	3625	55990	15	1	0	22.16	20.16	0.104
16QAM	3625	55990	15	1	37	22.34	20.34	0.108
16QAM	3625	55990	15	1	74	22.50	20.50	0.112
16QAM	3625	55990	15	36	0	21.07	19.07	0.081
16QAM	3625	55990	15	36	29	21.30	19.30	0.085
16QAM	3625	55990	15	36	30	21.30	19.30	0.085
16QAM	3625	55990	15	75	0	21.18	19.18	0.083
16QAM	3692.5	56665	15	1	0	22.79	20.79	0.120
16QAM	3692.5	56665	15	1	37	22.97	20.97	0.125
16QAM	3692.5	56665	15	1	74	23.28	21.28	0.134
16QAM	3692.5	56665	15	36	0	21.82	19.82	0.096
16QAM	3692.5	56665	15	36	29	21.90	19.90	0.098
16QAM	3692.5	56665	15	36	30	21.90	19.90	0.098
16QAM	3692.5	56665	15	75	0	22.01	20.01	0.100

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	3560	55340	20	1	0	23.44	21.44	0.139
QPSK	3560	55340	20	1	49	23.54	21.54	0.143
QPSK	3560	55340	20	1	99	23.66	21.66	0.147
QPSK	3560	55340	20	50	0	22.88	20.88	0.122
QPSK	3560	55340	20	50	24	22.93	20.93	0.124
QPSK	3560	55340	20	50	50	23.04	21.04	0.127
QPSK	3560	55340	20	100	0	22.92	20.92	0.124
QPSK	3625	55990	20	1	0	22.57	20.57	0.114
QPSK	3625	55990	20	1	49	22.96	20.96	0.125
QPSK	3625	55990	20	1	99	23.02	21.02	0.126
QPSK	3625	55990	20	50	0	22.10	20.10	0.102
QPSK	3625	55990	20	50	24	22.17	20.17	0.104
QPSK	3625	55990	20	50	50	22.31	20.31	0.107
QPSK	3625	55990	20	100	0	22.22	20.22	0.105
QPSK	3690	56640	20	1	0	23.23	21.23	0.133
QPSK	3690	56640	20	1	49	23.43	21.43	0.139
QPSK	3690	56640	20	1	99	23.58	21.58	0.144
QPSK	3690	56640	20	50	0	22.72	20.72	0.118
QPSK	3690	56640	20	50	24	22.79	20.79	0.120
QPSK	3690	56640	20	50	50	22.84	20.84	0.121
QPSK	3690	56640	20	100	0	22.88	20.88	0.122

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	3560	55340	20	1	0	22.95	20.95	0.124
16QAM	3560	55340	20	1	49	23.03	21.03	0.127
16QAM	3560	55340	20	1	99	23.07	21.07	0.128
16QAM	3560	55340	20	50	0	21.95	19.95	0.099
16QAM	3560	55340	20	50	24	21.97	19.97	0.099
16QAM	3560	55340	20	50	50	21.97	19.97	0.099
16QAM	3560	55340	20	100	0	21.92	19.92	0.098
16QAM	3625	55990	20	1	0	22.07	20.07	0.102
16QAM	3625	55990	20	1	49	22.30	20.30	0.107
16QAM	3625	55990	20	1	99	22.53	20.53	0.113
16QAM	3625	55990	20	50	0	21.17	19.17	0.083
16QAM	3625	55990	20	50	24	21.36	19.36	0.086
16QAM	3625	55990	20	50	50	21.32	19.32	0.086
16QAM	3625	55990	20	100	0	21.22	19.22	0.084
16QAM	3690	56640	20	1	0	22.89	20.89	0.123
16QAM	3690	56640	20	1	49	22.97	20.97	0.125
16QAM	3690	56640	20	1	99	23.09	21.09	0.129
16QAM	3690	56640	20	50	0	21.83	19.83	0.096
16QAM	3690	56640	20	50	24	21.92	19.92	0.098
16QAM	3690	56640	20	50	50	21.98	19.98	0.100
16QAM	3690	56640	20	100	0	21.81	19.81	0.096