

Fig.1

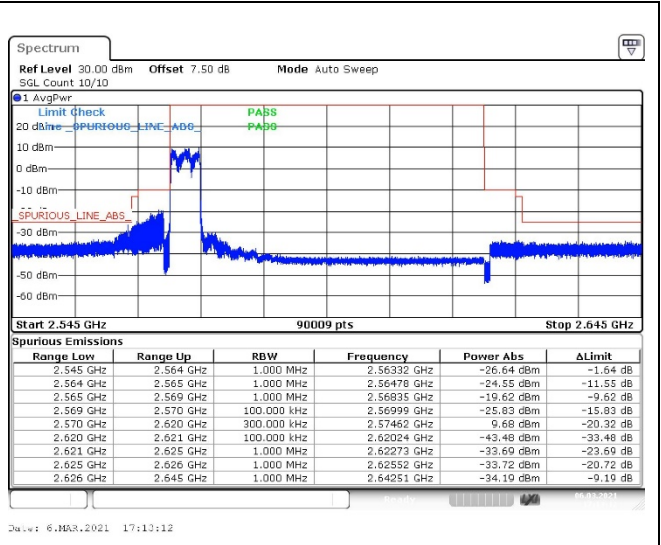


Fig.2

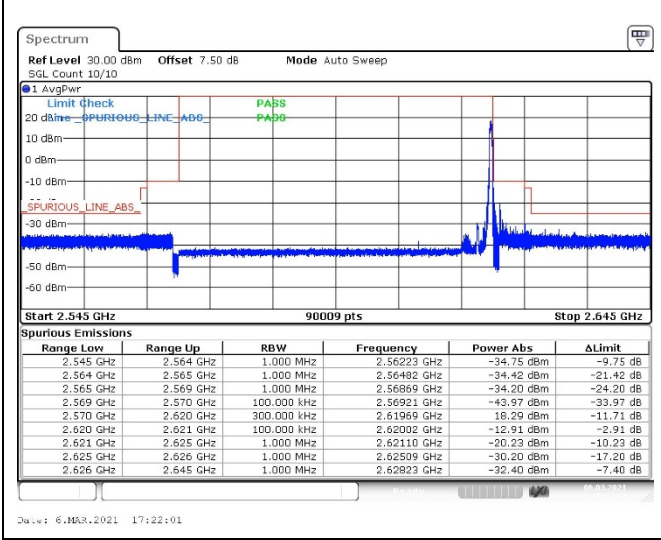


Fig.3

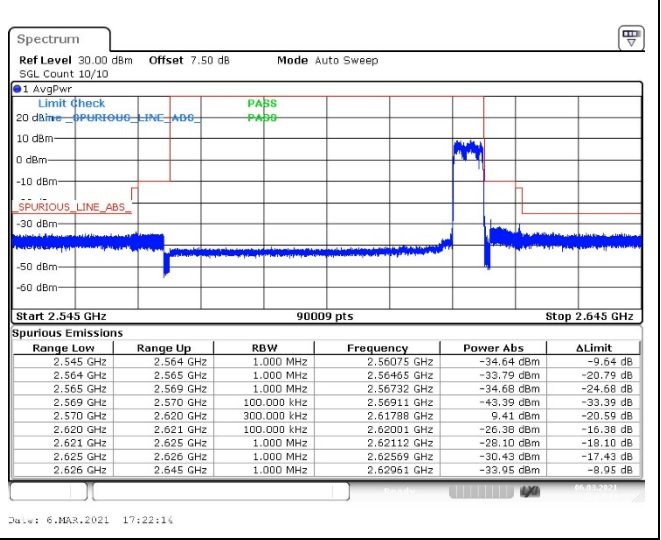


Fig.4

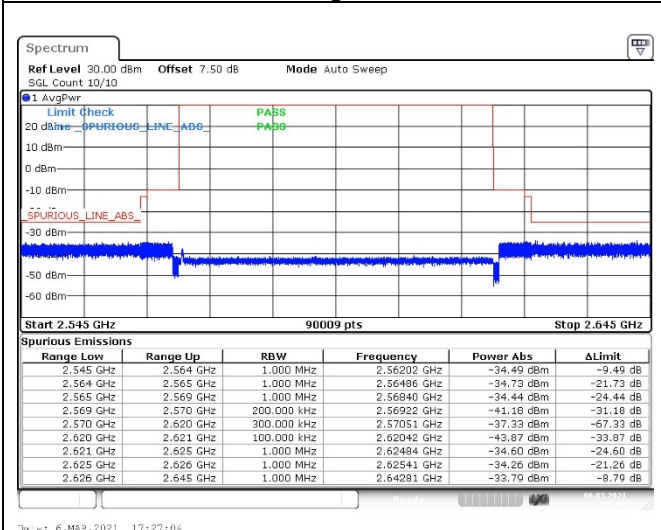


Fig.5

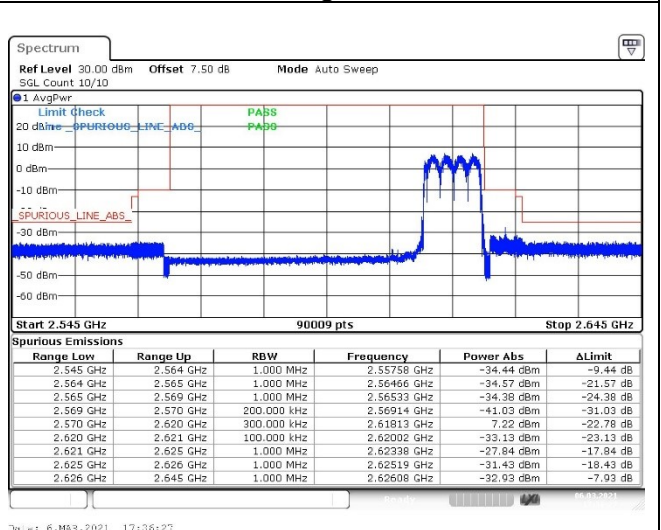


Fig.6

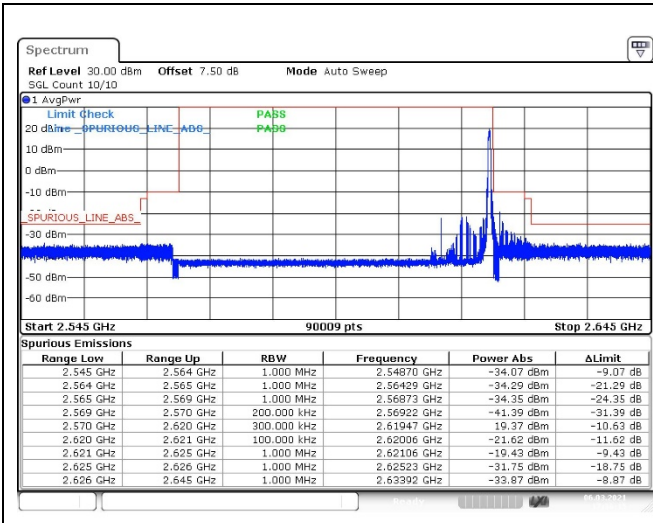


Fig.7

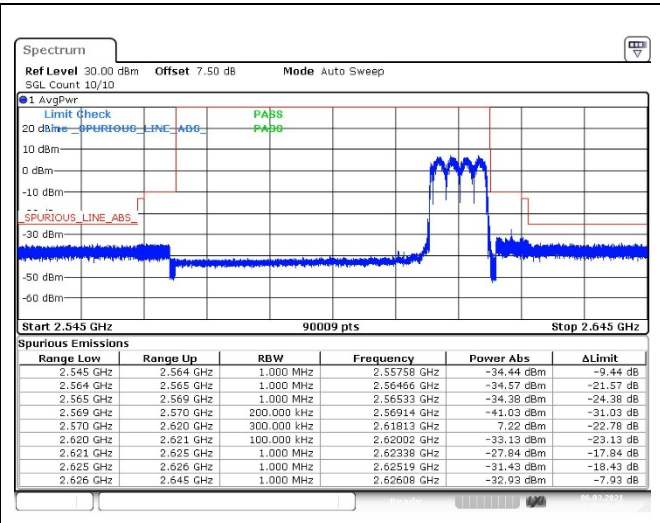


Fig.8

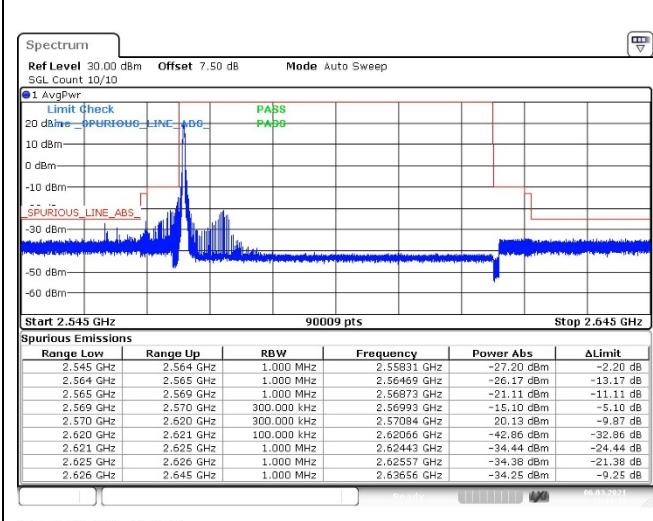


Fig.9

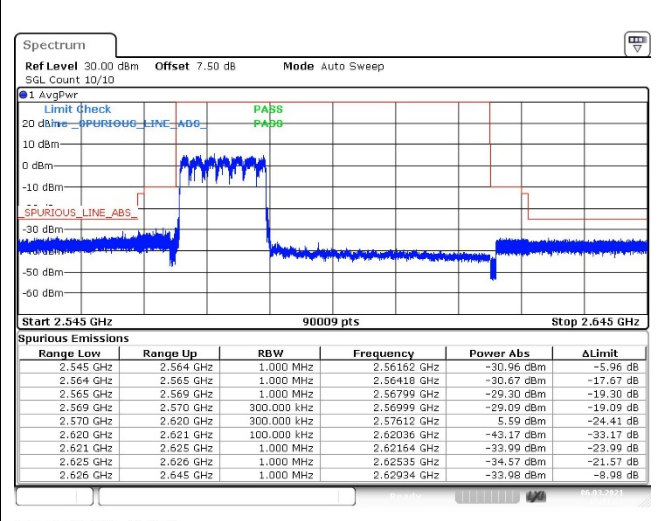


Fig.10

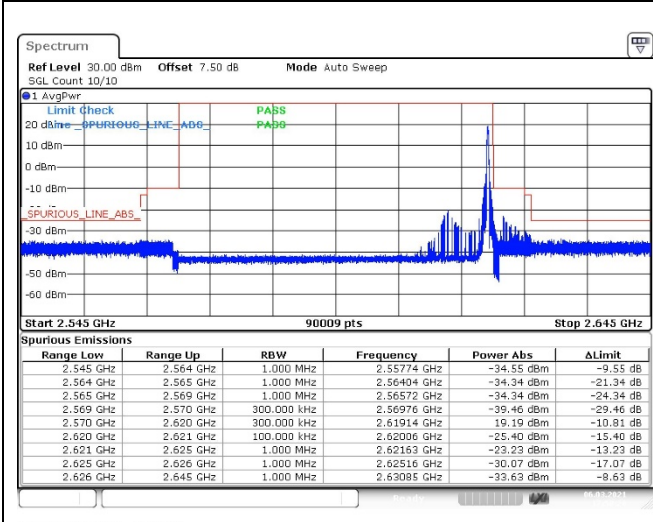


Fig.11

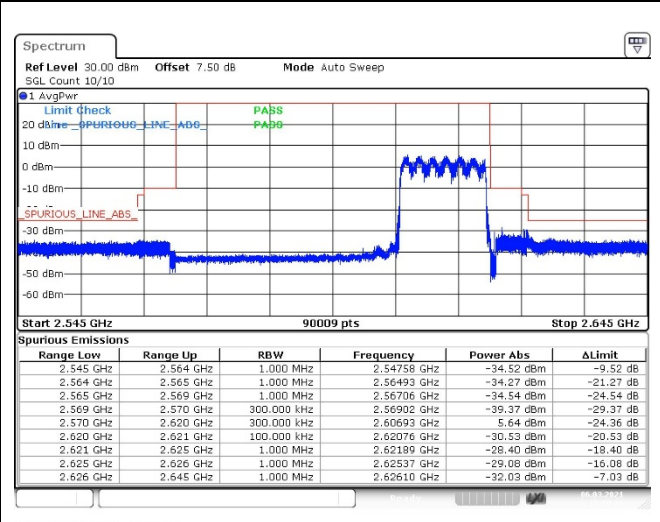


Fig.12

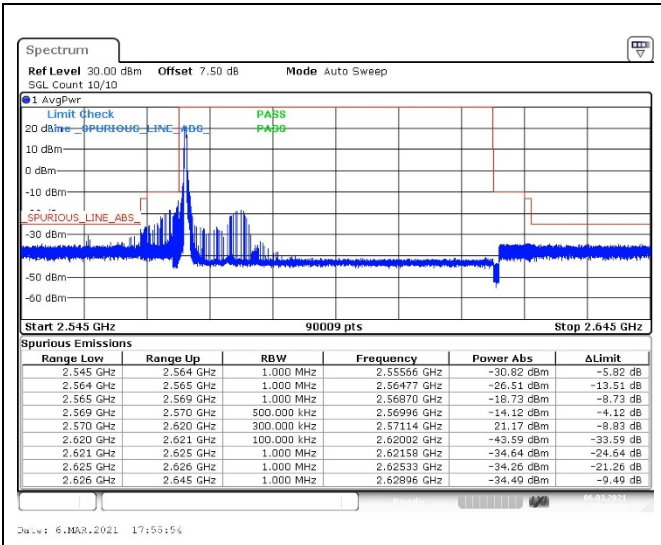


Fig.13

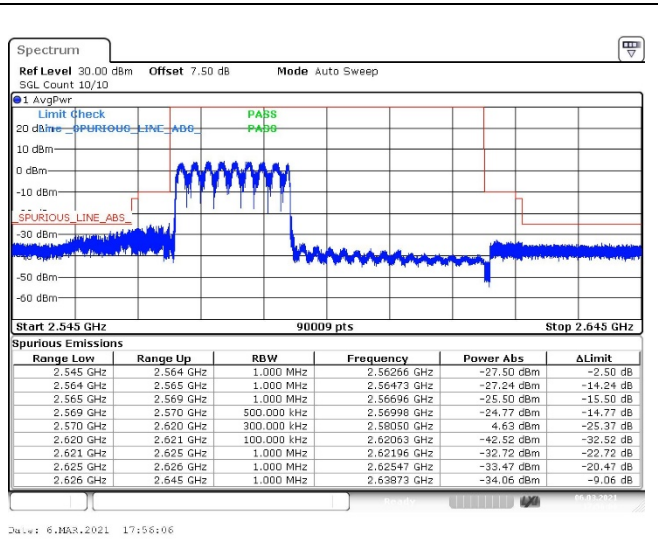


Fig.14

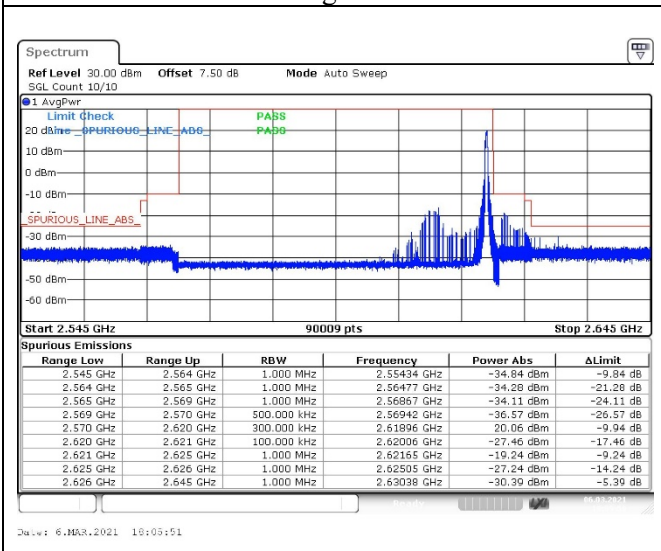


Fig.15

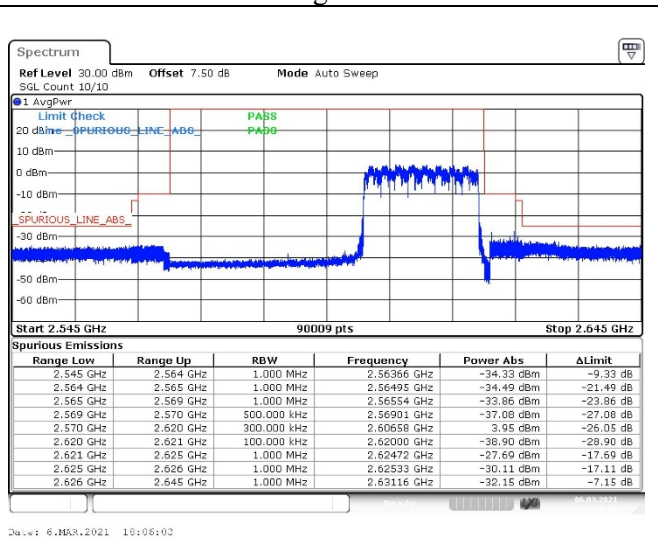


Fig.16

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band38 Low Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
-30	NV	---	---	-0.006	-0.002	-0.004	-0.003
-20	NV	---	---	-0.010	-0.003	-0.003	0.000
-10	NV	---	---	-0.003	-0.005	-0.002	0.000
0	NV	---	---	-0.010	-0.003	-0.003	0.000
+10	NV	---	---	-0.009	-0.004	0.000	-0.002
+20	NV	---	---	0.000	0.000	0.000	0.000
+30	NV	---	---	-0.011	-0.005	-0.002	-0.002
+40	NV	---	---	-0.010	0.000	0.001	-0.003
+50	NV	---	---	-0.010	-0.005	-0.004	-0.004
+20	LV	---	---	-0.003	-0.001	-0.001	0.000
+20	HV	---	---	-0.008	-0.005	-0.001	0.000

Temperature(°C)	Voltage	Test Result (ppm) Band38 High Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
-30	NV	---	---	-0.003	0.001	-0.002	0.002
-20	NV	---	---	-0.002	-0.005	-0.001	-0.006
-10	NV	---	---	-0.005	-0.001	-0.005	-0.004
0	NV	---	---	-0.002	-0.005	-0.001	-0.006
+10	NV	---	---	-0.001	-0.004	-0.001	-0.005
+20	NV	---	---	0.000	0.000	0.000	0.000
+30	NV	---	---	-0.006	-0.003	-0.005	-0.001
+40	NV	---	---	-0.004	0.001	-0.004	-0.002
+50	NV	---	---	-0.001	-0.005	-0.004	0.000
+20	LV	---	---	0.000	-0.003	-0.004	-0.003
+20	HV	---	---	-0.005	-0.002	0.000	-0.008

8 Effective Radiated Power and Effective Isotropic Radiated Power

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	2572.5	37775	5	1	0	23.13	21.73	0.149
				1	12	23.06	21.66	0.147
				1	24	23.11	21.71	0.148
				12	0	22.09	20.69	0.117
				12	7	22.18	20.78	0.120
				12	13	22.21	20.81	0.121
	25	0		21.15	19.75	0.094		
	1	0		23.21	21.81	0.152		
	1	12		23.04	21.64	0.146		
	1	24		23.15	21.75	0.150		
	12	0		22.12	20.72	0.118		
	12	7		22.26	20.86	0.122		
	12	13		22.23	20.83	0.121		
	25	0		21.08	19.68	0.093		
	1	0		23.20	21.80	0.151		
	1	12		23.09	21.69	0.148		
	1	24		23.09	21.69	0.148		
	12	0		22.16	20.76	0.119		
12	7	22.14	20.74	0.119				
12	13	22.17	20.77	0.119				
25	0	21.15	19.75	0.094				
16QAM	2572.5	37775	1	0	22.58	21.18	0.131	
			1	12	22.58	21.18	0.131	
			1	24	22.47	21.07	0.128	
			12	0	21.11	19.71	0.094	
			12	7	21.10	19.70	0.093	
			12	13	21.09	19.69	0.093	
	25	0	20.21	18.81	0.076			
	1	0	22.57	21.17	0.131			
	1	12	22.56	21.16	0.131			
	1	24	22.48	21.08	0.128			
	12	0	21.32	19.92	0.098			
	12	7	21.29	19.89	0.097			
	12	13	21.24	19.84	0.096			
	25	0	20.18	18.78	0.076			
	1	0	22.60	21.20	0.132			
	1	12	22.59	21.19	0.132			
	1	24	22.57	21.17	0.131			
	12	0	21.34	19.94	0.099			
12	7	21.38	19.98	0.100				
12	13	21.29	19.89	0.097				
25	0	20.25	18.85	0.077				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	2572.5	37775	5	1	0	21.11	19.71	0.094
				1	12	21.15	19.75	0.094
				1	24	21.08	19.68	0.093
				12	0	20.18	18.78	0.076
				12	7	20.12	18.72	0.074
				12	13	20.07	18.67	0.074
	2595	38000		25	0	19.07	17.67	0.058
				1	0	21.63	20.23	0.105
				1	12	21.54	20.14	0.103
				1	24	21.63	20.23	0.105
				12	0	20.54	19.14	0.082
				12	7	20.52	19.12	0.082
	2617.5	38225		12	13	20.52	19.12	0.082
				25	0	19.61	18.21	0.066
				1	0	21.05	19.65	0.092
				1	12	21.09	19.69	0.093
				1	24	21.01	19.61	0.091
				12	0	20.10	18.70	0.074
				12	7	20.01	18.61	0.073
				12	13	20.09	18.69	0.074
				25	0	19.02	17.62	0.058

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	2575	37800	10	1	0	23.17	21.77	0.150
				1	25	22.95	21.55	0.143
				1	49	23.19	21.79	0.151
				25	0	22.24	20.84	0.121
				25	12	22.23	20.83	0.121
				25	25	22.16	20.76	0.119
	50	0		21.23	19.83	0.096		
	2595	38000		1	0	23.04	21.64	0.146
				1	25	23.20	21.80	0.151
				1	49	23.16	21.76	0.150
				25	0	22.18	20.78	0.120
				25	12	22.27	20.87	0.122
				25	25	22.27	20.87	0.122
	50	0		21.21	19.81	0.096		
	2615	38200		1	0	23.10	21.70	0.148
1			25	22.97	21.57	0.144		
1			49	23.10	21.70	0.148		
25			0	22.18	20.78	0.120		
25			12	22.23	20.83	0.121		
25			25	22.22	20.82	0.121		
16QAM	2575	37800	50	0	21.17	19.77	0.095	
			1	0	22.57	21.17	0.131	
			1	25	22.50	21.10	0.129	
			1	49	22.46	21.06	0.128	
			25	0	21.25	19.85	0.097	
			25	12	21.27	19.87	0.097	
	25	25	21.24	19.84	0.096			
	50	0	20.30	18.90	0.078			
	2595	38000	1	0	22.43	21.03	0.127	
			1	25	22.32	20.92	0.124	
			1	49	22.23	20.83	0.121	
			25	0	21.23	19.83	0.096	
			25	12	21.21	19.81	0.096	
			25	25	21.20	19.80	0.095	
	50	0	20.28	18.88	0.077			
2615	38200	1	0	22.46	21.06	0.128		
		1	25	22.37	20.97	0.125		
		1	49	22.47	21.07	0.128		
		25	0	21.26	19.86	0.097		
		25	12	21.23	19.83	0.096		
		25	25	21.20	19.80	0.095		
50	0	20.07	18.67	0.074				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	2575	37800	10	1	0	21.19	19.79	0.095
				1	25	21.19	19.79	0.095
				1	49	21.30	19.90	0.098
				25	0	20.25	18.85	0.077
				25	12	20.19	18.79	0.076
				25	25	20.25	18.85	0.077
	2595	38000		50	0	19.19	17.79	0.060
				1	0	21.18	19.78	0.095
				1	25	21.21	19.81	0.096
				1	49	21.21	19.81	0.096
				25	0	20.21	18.81	0.076
				25	12	20.15	18.75	0.075
	2615	38200		25	25	20.21	18.81	0.076
				50	0	19.14	17.74	0.059
				1	0	21.13	19.73	0.094
				1	25	21.10	19.70	0.093
				1	49	21.11	19.71	0.094
				25	0	20.10	18.70	0.074
				25	12	20.03	18.63	0.073
				25	25	20.13	18.73	0.075
				50	0	19.03	17.63	0.058

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	2577.5	37825	15	1	0	23.04	21.64	0.146
				1	37	22.94	21.54	0.143
				1	74	22.93	21.53	0.142
				36	0	22.15	20.75	0.119
				36	29	22.16	20.76	0.119
				36	30	22.14	20.74	0.119
	75	0		21.20	19.80	0.095		
	1	0		22.99	21.59	0.144		
	1	37		23.11	21.71	0.148		
	1	74		23.15	21.75	0.150		
	36	0		22.18	20.78	0.120		
	36	29		22.24	20.84	0.121		
	36	30		22.23	20.83	0.121		
	75	0		21.13	19.73	0.094		
	16QAM	2612.5		38175	15	1	0	23.19
1			37			23.03	21.63	0.146
1			74			23.06	21.66	0.147
36			0			22.22	20.82	0.121
36			29			22.10	20.70	0.117
36			30			22.09	20.69	0.117
75		0	21.19	19.79		0.095		
1		0	22.47	21.07		0.128		
1		37	22.32	20.92		0.124		
1		74	22.36	20.96		0.125		
36		0	21.23	19.83		0.096		
36		29	21.19	19.79		0.095		
36		30	21.20	19.80		0.095		
75		0	20.23	18.83		0.076		
16QAM		2577.5	37825	15		1	0	22.25
	1				37	22.19	20.79	0.120
	1				74	22.23	20.83	0.121
	36				0	21.17	19.77	0.095
	36				29	21.22	19.82	0.096
	36				30	21.25	19.85	0.097
	75	0	20.11		18.71	0.074		
	1	0	22.15		20.75	0.119		
	1	37	21.90		20.50	0.112		
	1	74	21.97		20.57	0.114		
	36	0	21.11		19.71	0.094		
	36	29	21.14		19.74	0.094		
	36	30	21.10		19.70	0.093		
	75	0	20.25		18.85	0.077		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	2577.5	37825	15	1	0	21.19	19.79	0.095
				1	37	21.19	19.79	0.095
				1	74	21.20	19.80	0.095
				36	0	20.19	18.79	0.076
				36	29	20.19	18.79	0.076
				36	30	20.22	18.82	0.076
				75	0	19.19	17.79	0.060
	2595	38000		1	0	21.15	19.75	0.094
				1	37	21.16	19.76	0.095
				1	74	21.14	19.74	0.094
				36	0	20.14	18.74	0.075
				36	29	20.13	18.73	0.075
				36	30	20.14	18.74	0.075
				75	0	19.11	17.71	0.059
	2612.5	38175		1	0	21.18	19.78	0.095
				1	37	21.25	19.85	0.097
				1	74	21.22	19.82	0.096
				36	0	20.18	18.78	0.076
				36	29	20.18	18.78	0.076
				36	30	20.18	18.78	0.076
				75	0	19.18	17.78	0.060

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	2580	37850	20	1	0	23.13	21.73	0.149
				1	49	22.99	21.59	0.144
				1	99	23.04	21.64	0.146
				50	0	22.14	20.74	0.119
				50	24	22.10	20.70	0.117
				50	50	22.18	20.78	0.120
	100	0		21.18	19.78	0.095		
	2595	38000		1	0	23.01	21.61	0.145
				1	49	23.06	21.66	0.147
				1	99	23.16	21.76	0.150
				50	0	22.13	20.73	0.118
				50	24	22.20	20.80	0.120
				50	50	22.19	20.79	0.120
	100	0		21.10	19.70	0.093		
	2610	38150		1	0	23.09	21.69	0.148
1			49	23.04	21.64	0.146		
1			99	23.07	21.67	0.147		
50			0	22.17	20.77	0.119		
50			24	22.07	20.67	0.117		
50			50	22.10	20.70	0.117		
16QAM	2580	37850	100	0	21.14	19.74	0.094	
			1	0	22.34	20.94	0.124	
			1	49	22.32	20.92	0.124	
			1	99	22.29	20.89	0.123	
			50	0	21.15	19.75	0.094	
			50	24	21.16	19.76	0.095	
	50	50	21.16	19.76	0.095			
	100	0	20.15	18.75	0.075			
	2595	38000	1	0	22.13	20.73	0.118	
			1	49	22.21	20.81	0.121	
			1	99	22.21	20.81	0.121	
			50	0	21.19	19.79	0.095	
			50	24	21.17	19.77	0.095	
			50	50	21.22	19.82	0.096	
	100	0	20.15	18.75	0.075			
2610	38150	1	0	21.72	20.32	0.108		
		1	49	21.69	20.29	0.107		
		1	99	21.69	20.29	0.107		
		50	0	20.17	18.77	0.075		
		50	24	20.25	18.85	0.077		
		50	50	20.15	18.75	0.075		
100	0	19.10	17.70	0.059				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	2580	37850	20	1	0	21.24	19.84	0.096
				1	49	21.23	19.83	0.096
				1	99	21.21	19.81	0.096
				50	0	20.24	18.84	0.077
				50	24	20.18	18.78	0.076
				50	50	20.17	18.77	0.075
				100	0	19.21	17.81	0.060
	2595	38000		1	0	21.16	19.76	0.095
				1	49	21.15	19.75	0.094
				1	99	21.16	19.76	0.095
				50	0	20.09	18.69	0.074
				50	24	20.19	18.79	0.076
				50	50	20.12	18.72	0.074
				100	0	19.12	17.72	0.059
	2610	38150		1	0	21.15	19.75	0.094
				1	49	21.09	19.69	0.093
				1	99	21.10	19.70	0.093
				50	0	20.07	18.67	0.074
				50	24	20.16	18.76	0.075
				50	50	20.14	18.74	0.075
				100	0	19.16	17.76	0.060