

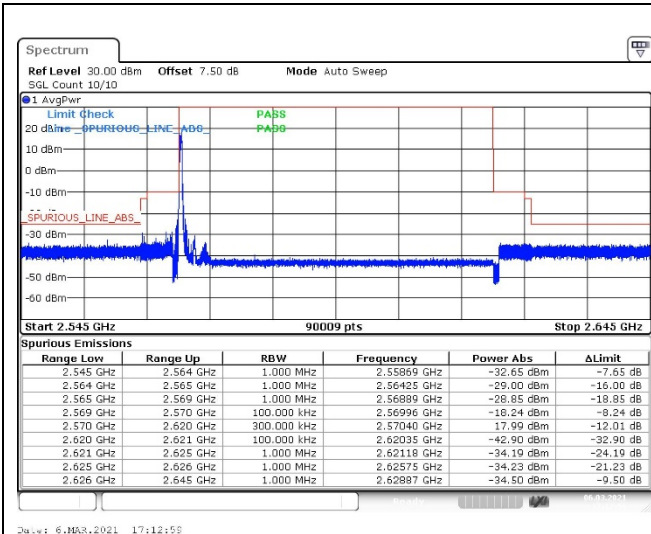


Fig.1

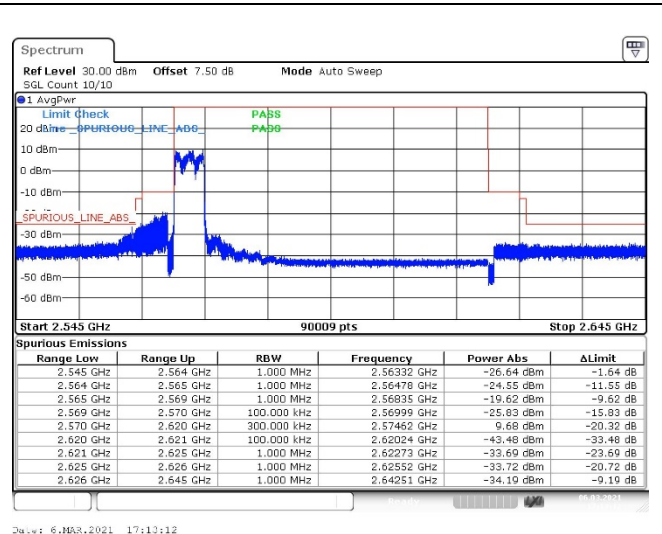


Fig.2

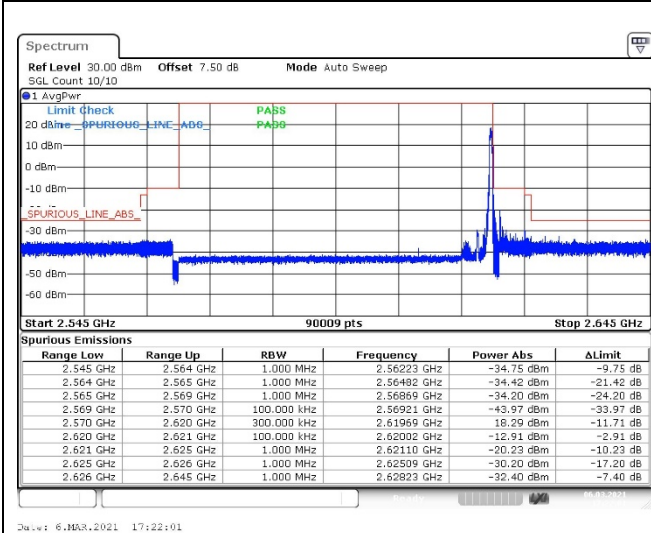


Fig.3

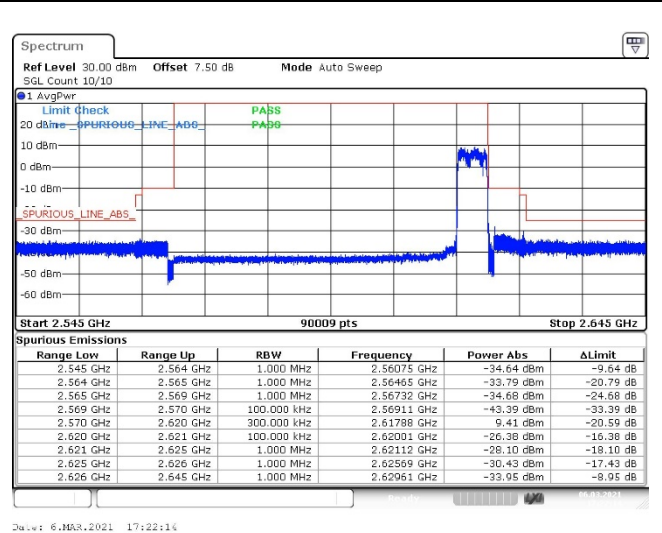


Fig.4

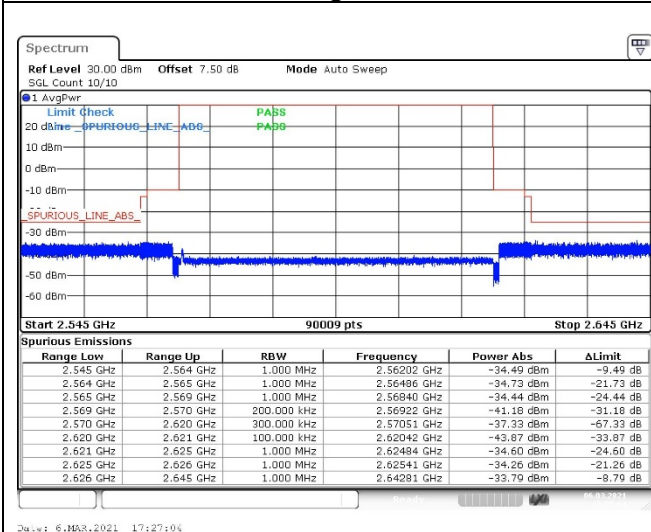


Fig.5

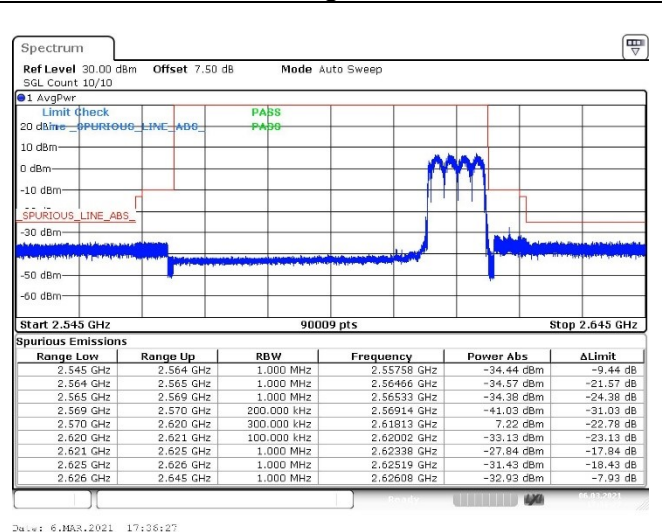


Fig.6

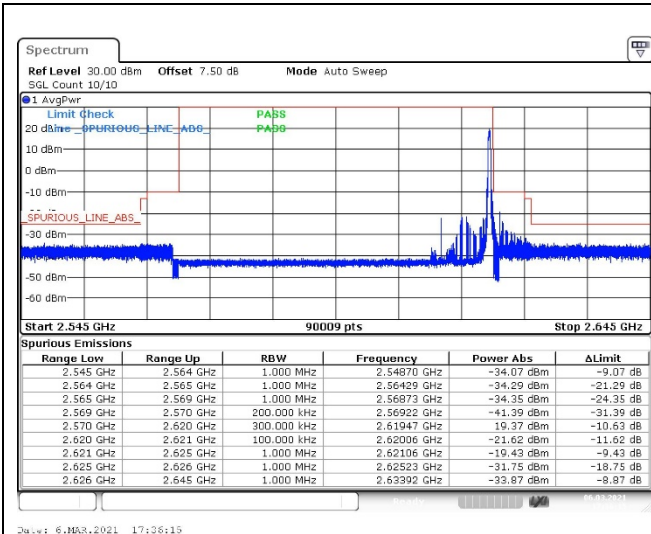


Fig.7

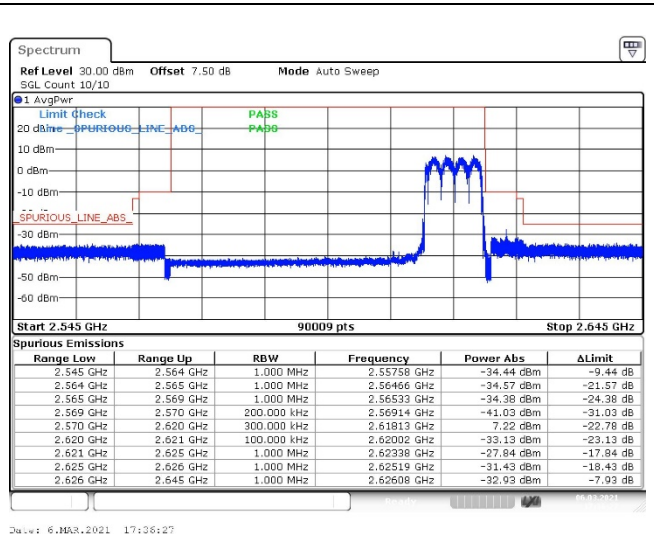


Fig.8

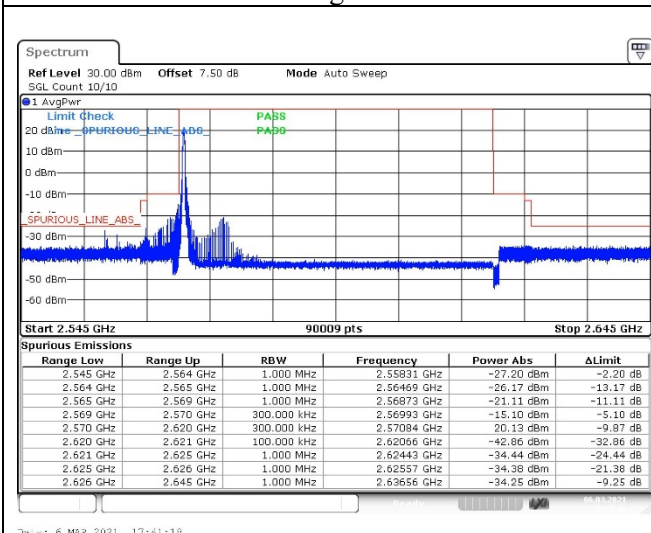


Fig.9

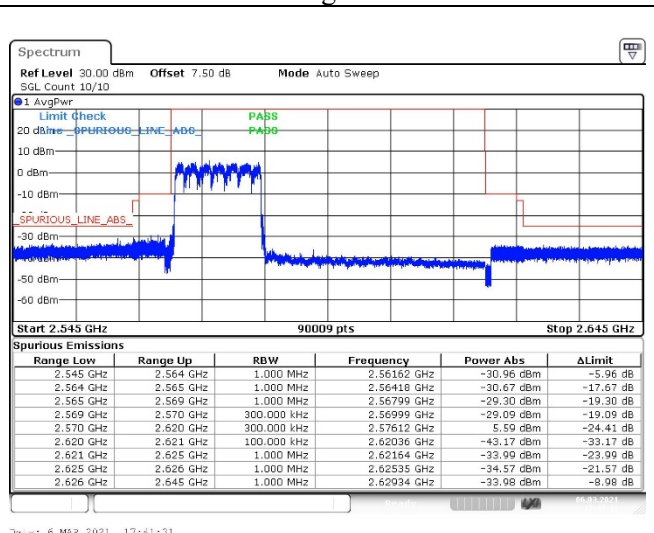


Fig.10

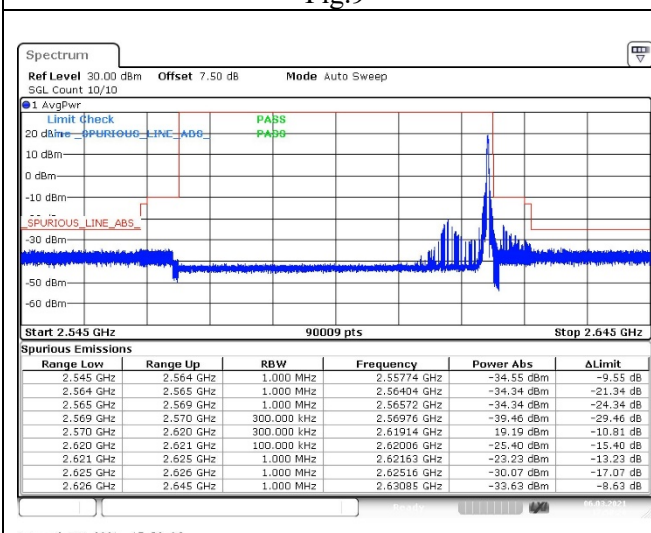


Fig.11

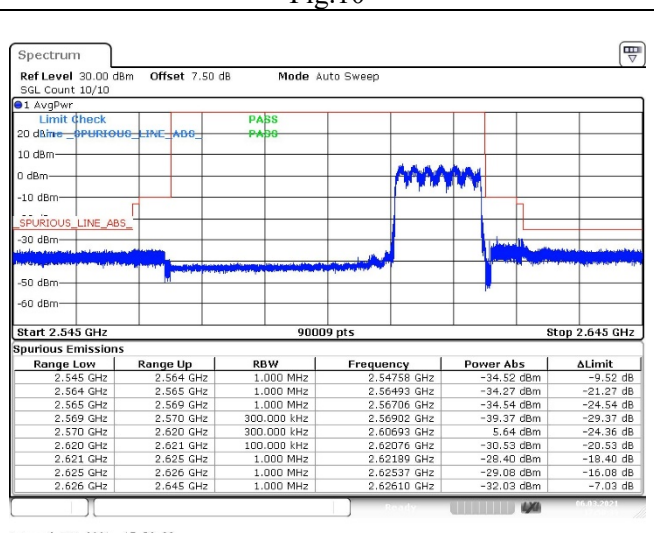


Fig.12

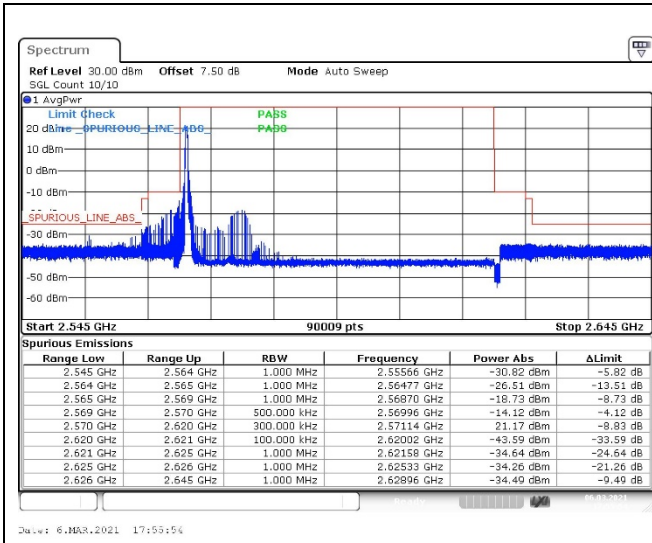


Fig.13

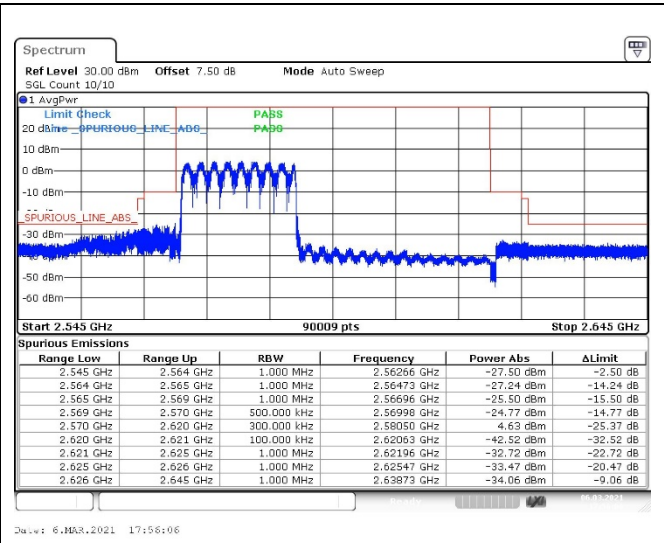


Fig.14

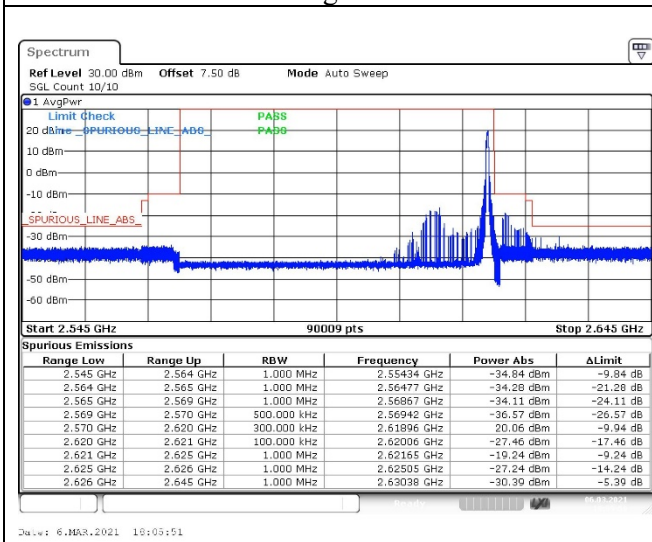


Fig.15

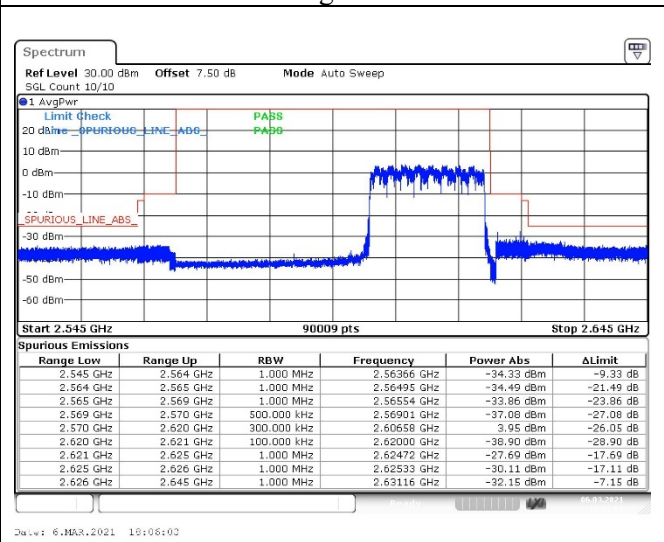


Fig.16

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			
	2595	38000		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			
				2617.5	38225	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			
2595		38000		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			
2617.5		38225		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
				25	0	19.07	17.67	0.058
	2595	38000		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
				12	13	20.52	19.12	0.082
				25	0	19.61	18.21	0.066
	2617.5	38225		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
				50	0	19.19	17.79	0.060
	2595	38000		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
				25	25	20.21	18.81	0.076
				50	0	19.14	17.74	0.059
	2615	38200		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 frequern cy (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		
	2595	38000		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		
	2612.5	38175		1	0	23.19	21.79	0.151
				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		
16QAM	2577.5	37825	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			
	2595	38000	1	0	22.25	20.85	0.122	
			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			
	2612.5	38175	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 frequern cy (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	
	2595	38000		100	0	21.18	19.78	0.095	
				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	
	2610	38150		50	50	22.19	20.79	0.120	
				100	0	21.10	19.70	0.093	
				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	
	16QAM	2580		37850	50	24	22.07	20.67	0.117
					50	50	22.10	20.70	0.117
					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
2595		38000		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	
				1	0	22.13	20.73	0.118	
				1	49	22.21	20.81	0.121	
2610		38150		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	
				1	0	21.72	20.32	0.108	
2580		37850		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 frequern cy (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