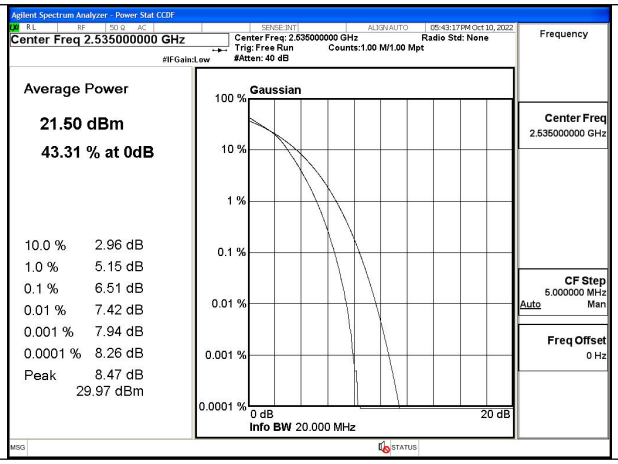

Fig.43

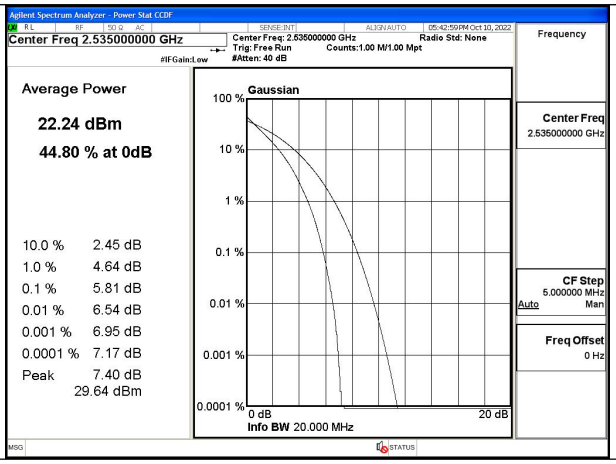

Fig.44

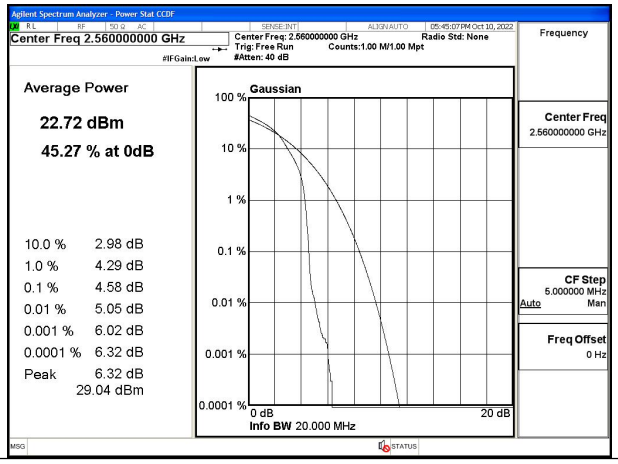

Fig.45

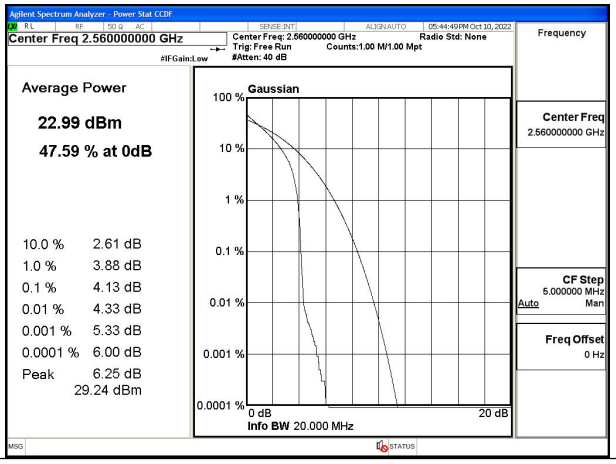

Fig.46

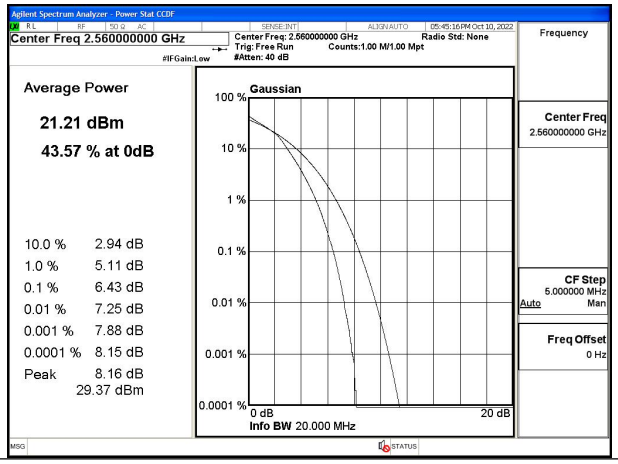

Fig.47

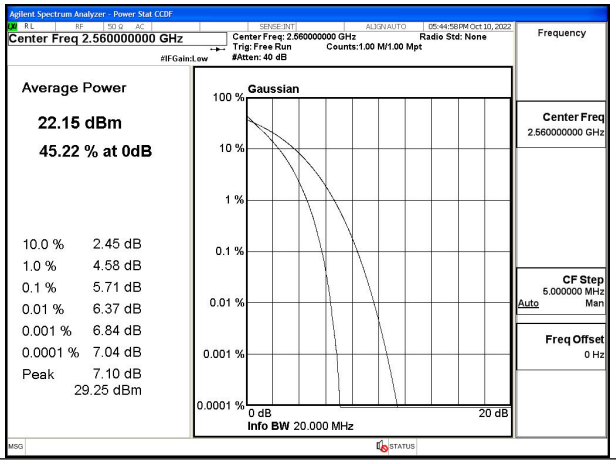

Fig.48

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

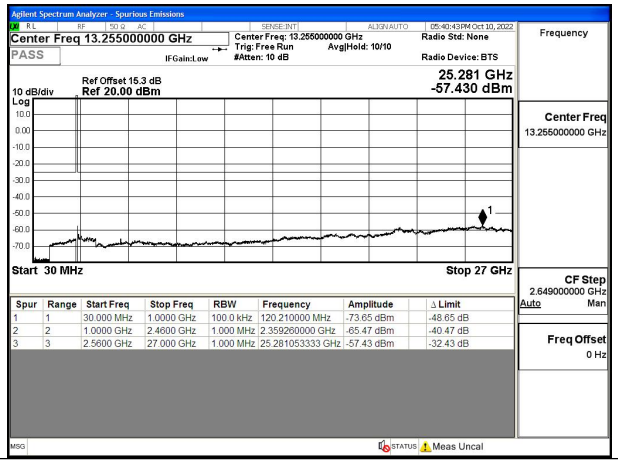

Fig.1

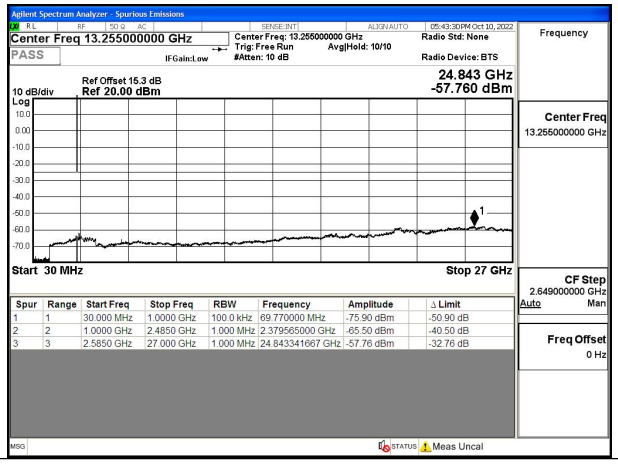

Fig.2

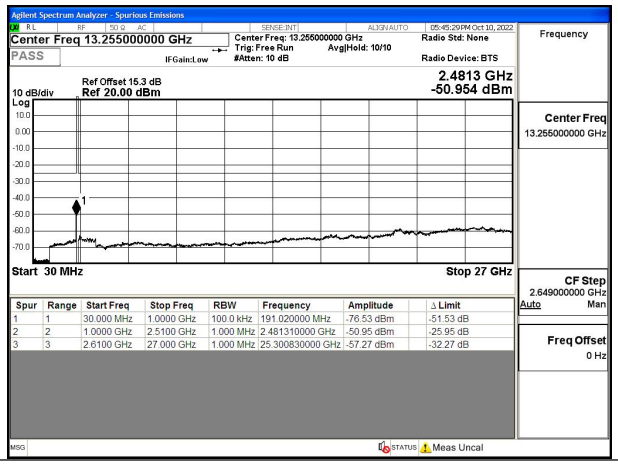

Fig.3

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

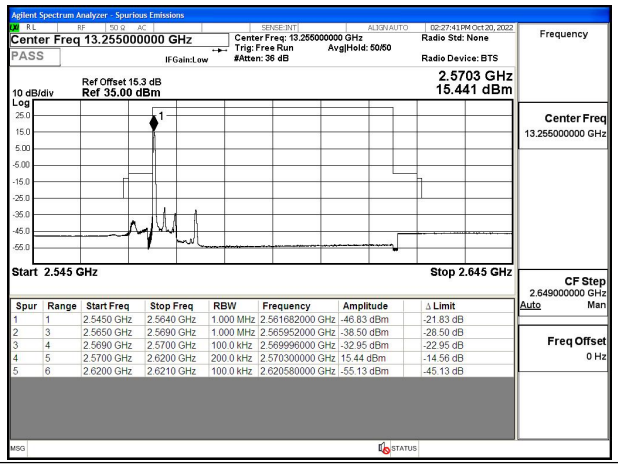

Fig.1

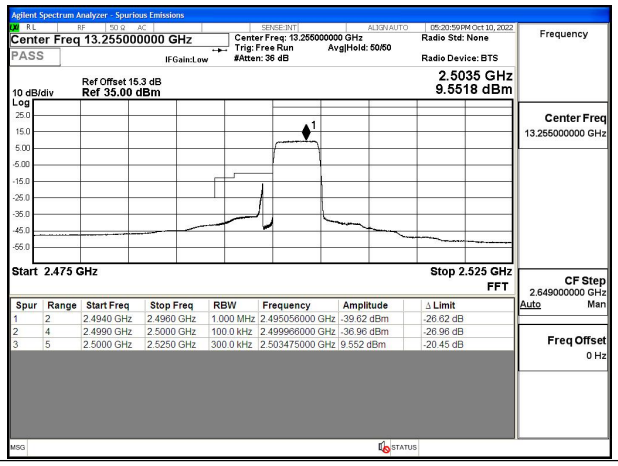

Fig.2

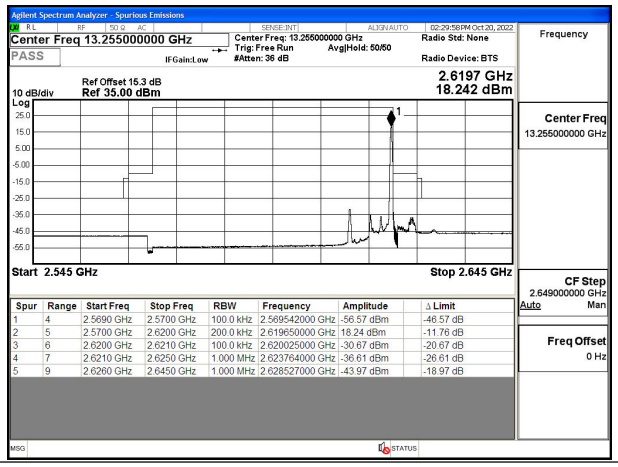

Fig.3

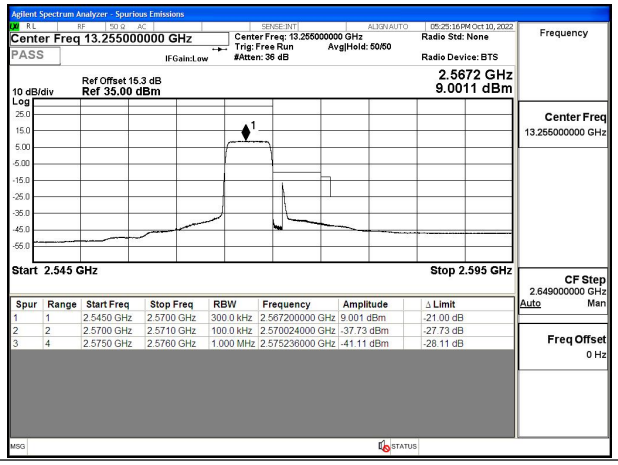

Fig.4

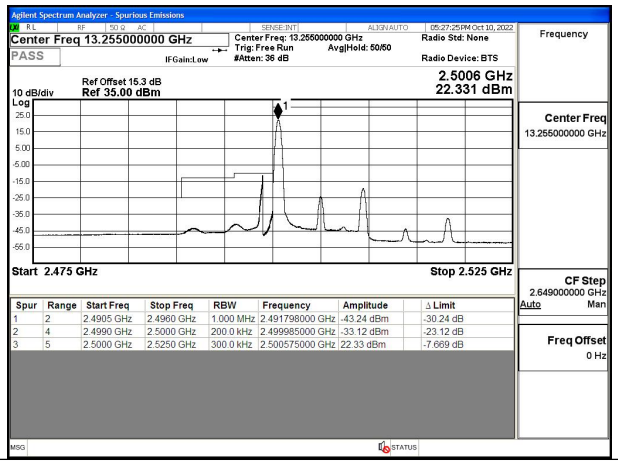

Fig.5

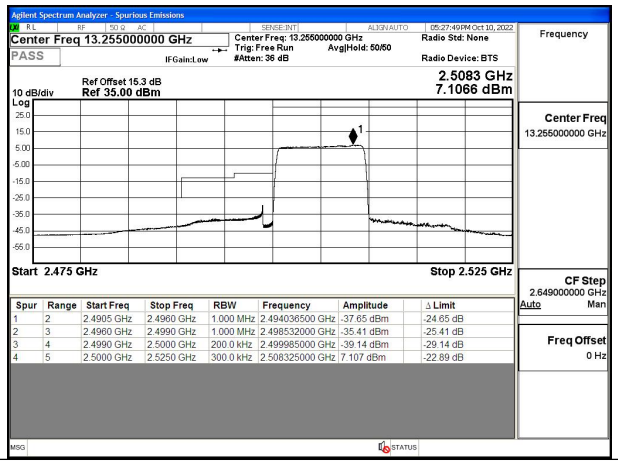

Fig.6

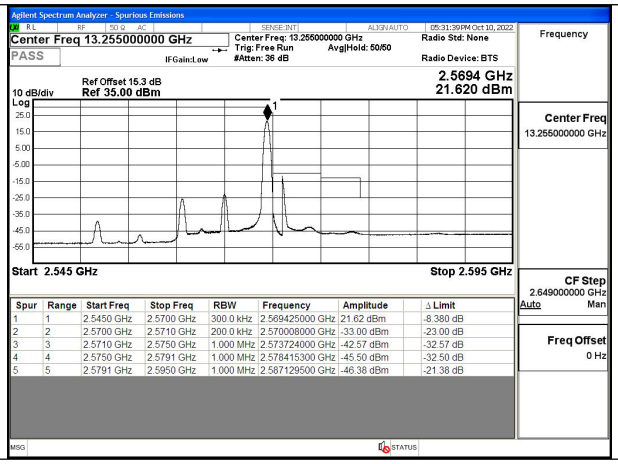

Fig.7

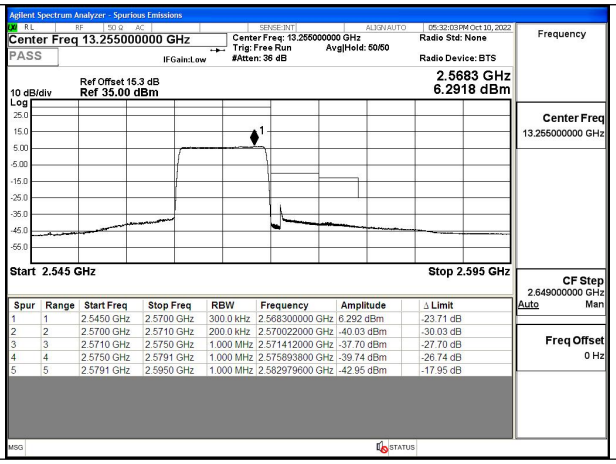

Fig.8

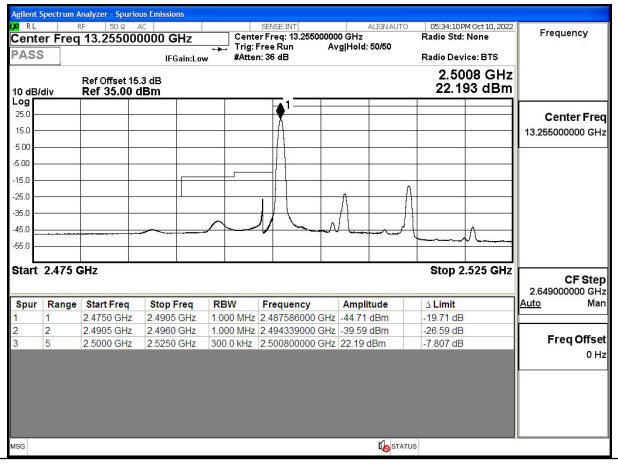

Fig.9

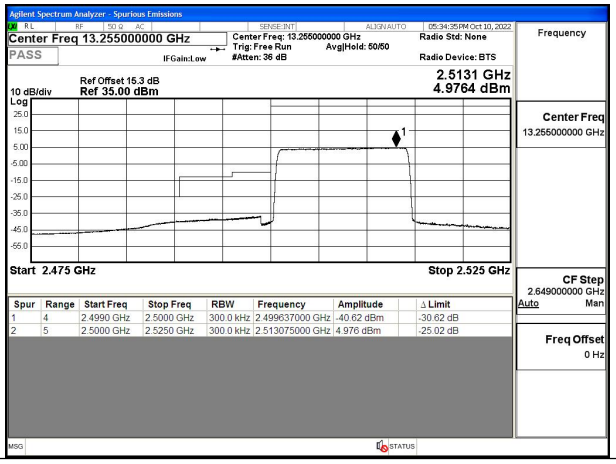

Fig.10

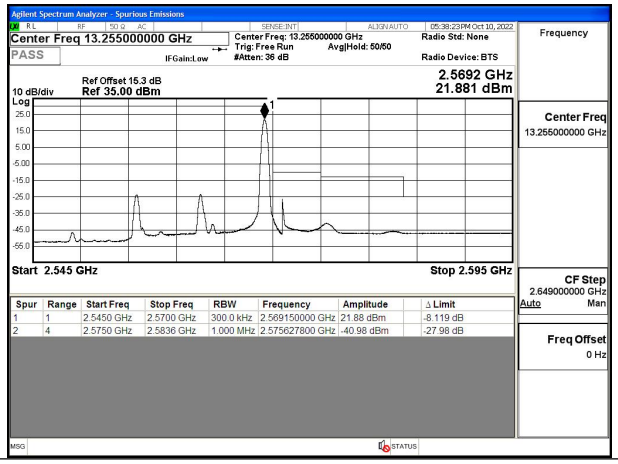

Fig.11

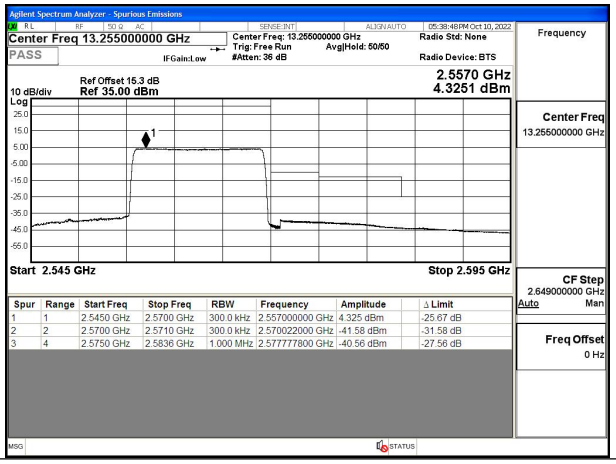

Fig.12

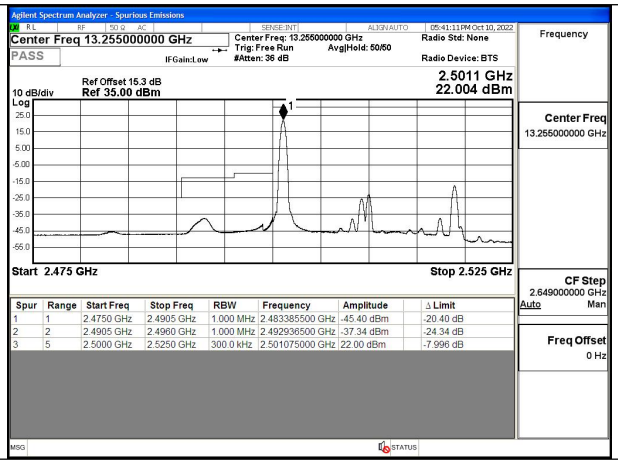

Fig.13

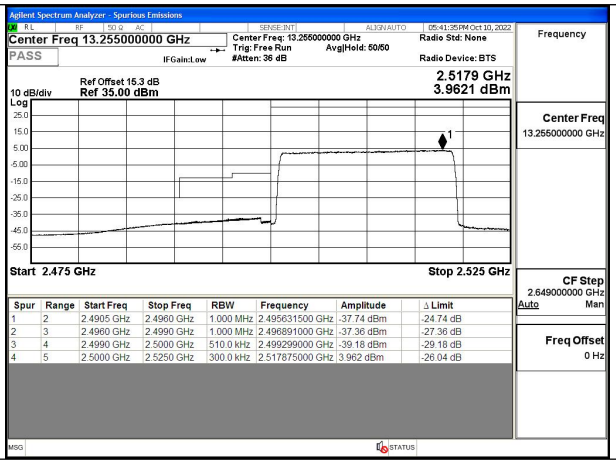

Fig.14

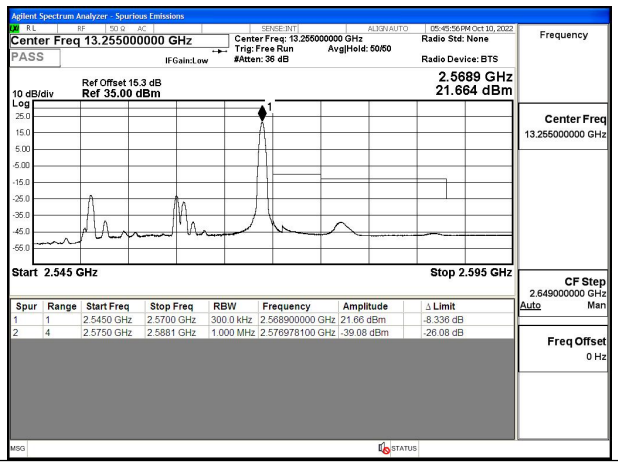

Fig.15

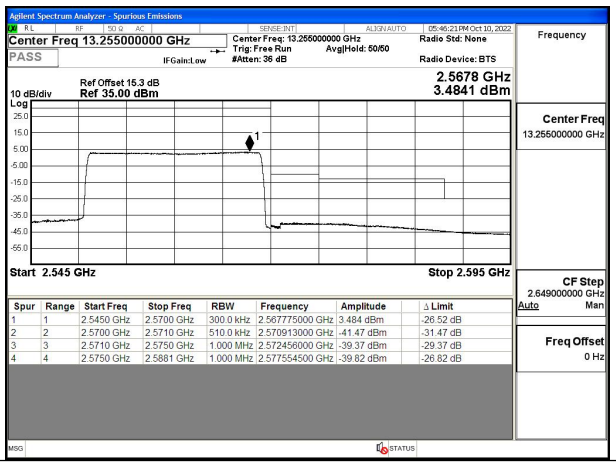

Fig.16

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band 7 Low Channel QPSK			
		5M	10M	15M	20M
-20	NV	0.009	0.006	0.012	0.009
-10	NV	-0.005	0.002	0.005	0.009
0	NV	0.001	0.006	0.005	0.010
+10	NV	0.009	0.004	0.004	0.007
+20	NV	0.003	0.006	-0.001	0.013
+30	NV	0.004	0.003	0.005	0.003
+40	NV	0.003	0.005	-0.001	0.003
+50	NV	0.001	0.005	0.006	0.014
+60	NV	-0.002	0.006	-0.001	-0.002
+20	LV	0.002	0.009	0.003	0.010
+20	HV	0.003	0.006	0.002	-0.001

Temperature(°C)	Voltage	Test Result (ppm) Band 7 High Channel QPSK			
		5M	10M	15M	20M
-20	NV	0.012	0.002	0.006	0.010
-10	NV	0.012	0.014	0.008	0.009
0	NV	0.012	0.005	-0.006	0.014
+10	NV	0.012	0.015	0.012	0.006
+20	NV	0.014	0.007	-0.005	0.002
+30	NV	0.011	0.006	-0.005	0.015
+40	NV	0.013	0.008	0.010	0.003
+50	NV	0.010	0.006	0.013	0.013
+60	NV	0.008	0.015	0.010	0.016
+20	LV	0.010	0.011	0.010	0.013
+20	HV	0.011	0.016	-0.004	0.001

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	23.07	21.82	0.152
QPSK	2502.5	20775	5	1	12	23.14	21.89	0.155
QPSK	2502.5	20775	5	1	24	23.00	21.75	0.150
QPSK	2502.5	20775	5	12	0	22.23	20.98	0.125
QPSK	2502.5	20775	5	12	7	22.27	21.02	0.126
QPSK	2502.5	20775	5	12	13	22.37	21.12	0.129
QPSK	2502.5	20775	5	25	0	22.12	20.87	0.122
QPSK	2535	21100	5	1	0	23.23	21.98	0.158
QPSK	2535	21100	5	1	12	23.07	21.82	0.152
QPSK	2535	21100	5	1	24	23.21	21.96	0.157
QPSK	2535	21100	5	12	0	22.34	21.09	0.129
QPSK	2535	21100	5	12	7	21.91	20.66	0.116
QPSK	2535	21100	5	12	13	22.54	21.29	0.135
QPSK	2535	21100	5	25	0	22.17	20.92	0.124
QPSK	2567.5	21425	5	1	0	23.69	22.44	0.175
QPSK	2567.5	21425	5	1	12	23.55	22.30	0.170
QPSK	2567.5	21425	5	1	24	23.71	22.46	0.176
QPSK	2567.5	21425	5	12	0	22.11	20.86	0.122
QPSK	2567.5	21425	5	12	7	22.30	21.05	0.127
QPSK	2567.5	21425	5	12	13	22.15	20.90	0.123
QPSK	2567.5	21425	5	25	0	22.17	20.92	0.124

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	22.64	21.39	0.138
16QAM	2502.5	20775	5	1	12	22.67	21.42	0.139
16QAM	2502.5	20775	5	1	24	22.96	21.71	0.148
16QAM	2502.5	20775	5	12	0	21.46	20.21	0.105
16QAM	2502.5	20775	5	12	7	21.39	20.14	0.103
16QAM	2502.5	20775	5	12	13	21.33	20.08	0.102
16QAM	2502.5	20775	5	25	0	21.36	20.11	0.103
16QAM	2535	21100	5	1	0	22.66	21.41	0.138
16QAM	2535	21100	5	1	12	22.83	21.58	0.144
16QAM	2535	21100	5	1	24	22.77	21.52	0.142
16QAM	2535	21100	5	12	0	21.34	20.09	0.102
16QAM	2535	21100	5	12	7	21.51	20.26	0.106
16QAM	2535	21100	5	12	13	21.39	20.14	0.103
16QAM	2535	21100	5	25	0	21.45	20.20	0.105
16QAM	2567.5	21425	5	1	0	22.67	21.42	0.139
16QAM	2567.5	21425	5	1	12	22.63	21.38	0.137
16QAM	2567.5	21425	5	1	24	22.62	21.37	0.137
16QAM	2567.5	21425	5	12	0	21.41	20.16	0.104
16QAM	2567.5	21425	5	12	7	21.52	20.27	0.106
16QAM	2567.5	21425	5	12	13	21.48	20.23	0.105
16QAM	2567.5	21425	5	25	0	21.69	20.44	0.111

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	23.55	22.30	0.170
QPSK	2505	20800	10	1	25	23.50	22.25	0.168
QPSK	2505	20800	10	1	49	23.42	22.17	0.165
QPSK	2505	20800	10	25	0	22.07	20.82	0.121
QPSK	2505	20800	10	25	12	22.41	21.16	0.131
QPSK	2505	20800	10	25	25	22.33	21.08	0.128
QPSK	2505	20800	10	50	0	22.40	21.15	0.130
QPSK	2535	21100	10	1	0	23.62	22.37	0.173
QPSK	2535	21100	10	1	25	23.52	22.27	0.169
QPSK	2535	21100	10	1	49	23.46	22.21	0.166
QPSK	2535	21100	10	25	0	22.40	21.15	0.130
QPSK	2535	21100	10	25	12	22.48	21.23	0.133
QPSK	2535	21100	10	25	25	22.26	21.01	0.126
QPSK	2535	21100	10	50	0	22.27	21.02	0.126
QPSK	2565	21400	10	1	0	23.46	22.21	0.166
QPSK	2565	21400	10	1	25	23.36	22.11	0.163
QPSK	2565	21400	10	1	49	23.23	21.98	0.158
QPSK	2565	21400	10	25	0	22.19	20.94	0.124
QPSK	2565	21400	10	25	12	22.27	21.02	0.126
QPSK	2565	21400	10	25	25	22.12	20.87	0.122
QPSK	2565	21400	10	50	0	22.20	20.95	0.124

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	22.44	21.19	0.132
16QAM	2505	20800	10	1	25	22.25	21.00	0.126
16QAM	2505	20800	10	1	49	23.01	21.76	0.150
16QAM	2505	20800	10	25	0	21.65	20.40	0.110
16QAM	2505	20800	10	25	12	21.53	20.28	0.107
16QAM	2505	20800	10	25	25	21.40	20.15	0.104
16QAM	2505	20800	10	50	0	21.32	20.07	0.102
16QAM	2535	21100	10	1	0	22.78	21.53	0.142
16QAM	2535	21100	10	1	25	22.91	21.66	0.147
16QAM	2535	21100	10	1	49	22.61	21.36	0.137
16QAM	2535	21100	10	25	0	21.64	20.39	0.109
16QAM	2535	21100	10	25	12	21.59	20.34	0.108
16QAM	2535	21100	10	25	25	21.48	20.23	0.105
16QAM	2535	21100	10	50	0	21.34	20.09	0.102
16QAM	2565	21400	10	1	0	22.79	21.54	0.143
16QAM	2565	21400	10	1	25	22.80	21.55	0.143
16QAM	2565	21400	10	1	49	23.40	22.15	0.164
16QAM	2565	21400	10	25	0	21.28	20.03	0.101
16QAM	2565	21400	10	25	12	21.34	20.09	0.102
16QAM	2565	21400	10	25	25	21.17	19.92	0.098
16QAM	2565	21400	10	50	0	21.44	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	2507.5	20825	15	1	0	23.27	22.02	0.159
QPSK	2507.5	20825	15	1	37	23.25	22.00	0.158
QPSK	2507.5	20825	15	1	74	23.06	21.81	0.152
QPSK	2507.5	20825	15	36	0	22.34	21.09	0.129
QPSK	2507.5	20825	15	36	29	22.22	20.97	0.125
QPSK	2507.5	20825	15	36	30	22.27	21.02	0.126
QPSK	2507.5	20825	15	75	0	22.18	20.93	0.124
QPSK	2535	21100	15	1	0	23.17	21.92	0.156
QPSK	2535	21100	15	1	37	23.12	21.87	0.154
QPSK	2535	21100	15	1	74	23.07	21.82	0.152
QPSK	2535	21100	15	36	0	22.27	21.02	0.126
QPSK	2535	21100	15	36	29	22.34	21.09	0.129
QPSK	2535	21100	15	36	30	21.99	20.74	0.119
QPSK	2535	21100	15	75	0	22.21	20.96	0.125
QPSK	2562.5	21375	15	1	0	23.24	21.99	0.158
QPSK	2562.5	21375	15	1	37	23.17	21.92	0.156
QPSK	2562.5	21375	15	1	74	23.15	21.90	0.155
QPSK	2562.5	21375	15	36	0	22.49	21.24	0.133
QPSK	2562.5	21375	15	36	29	22.23	20.98	0.125
QPSK	2562.5	21375	15	36	30	22.23	20.98	0.125
QPSK	2562.5	21375	15	75	0	22.29	21.04	0.127

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	23.15	21.90	0.155
16QAM	2507.5	20825	15	1	37	22.91	21.66	0.147
16QAM	2507.5	20825	15	1	74	22.78	21.53	0.142
16QAM	2507.5	20825	15	36	0	21.28	20.03	0.101
16QAM	2507.5	20825	15	36	29	21.28	20.03	0.101
16QAM	2507.5	20825	15	36	30	21.20	19.95	0.099
16QAM	2507.5	20825	15	75	0	21.49	20.24	0.106
16QAM	2535	21100	15	1	0	23.30	22.05	0.160
16QAM	2535	21100	15	1	37	22.73	21.48	0.141
16QAM	2535	21100	15	1	74	23.06	21.81	0.152
16QAM	2535	21100	15	36	0	21.30	20.05	0.101
16QAM	2535	21100	15	36	29	21.39	20.14	0.103
16QAM	2535	21100	15	36	30	21.00	19.75	0.094
16QAM	2535	21100	15	75	0	21.30	20.05	0.101
16QAM	2562.5	21375	15	1	0	22.77	21.52	0.142
16QAM	2562.5	21375	15	1	37	23.09	21.84	0.153
16QAM	2562.5	21375	15	1	74	22.98	21.73	0.149
16QAM	2562.5	21375	15	36	0	21.20	19.95	0.099
16QAM	2562.5	21375	15	36	29	21.43	20.18	0.104
16QAM	2562.5	21375	15	36	30	21.43	20.18	0.104
16QAM	2562.5	21375	15	75	0	21.44	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	2510	20850	20	1	0	23.41	22.16	0.164
QPSK	2510	20850	20	1	49	23.35	22.10	0.162
QPSK	2510	20850	20	1	99	23.56	22.31	0.170
QPSK	2510	20850	20	50	0	22.11	20.86	0.122
QPSK	2510	20850	20	50	24	22.22	20.97	0.125
QPSK	2510	20850	20	50	50	22.26	21.01	0.126
QPSK	2510	20850	20	100	0	22.16	20.91	0.123
QPSK	2535	21100	20	1	0	23.41	22.16	0.164
QPSK	2535	21100	20	1	49	23.23	21.98	0.158
QPSK	2535	21100	20	1	99	22.93	21.68	0.147
QPSK	2535	21100	20	50	0	22.45	21.20	0.132
QPSK	2535	21100	20	50	24	22.08	20.83	0.121
QPSK	2535	21100	20	50	50	22.22	20.97	0.125
QPSK	2535	21100	20	100	0	22.15	20.90	0.123
QPSK	2560	21350	20	1	0	23.29	22.04	0.160
QPSK	2560	21350	20	1	49	23.13	21.88	0.154
QPSK	2560	21350	20	1	99	23.30	22.05	0.160
QPSK	2560	21350	20	50	0	22.34	21.09	0.129
QPSK	2560	21350	20	50	24	22.23	20.98	0.125
QPSK	2560	21350	20	50	50	22.14	20.89	0.123
QPSK	2560	21350	20	100	0	22.26	21.01	0.126

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	23.09	21.84	0.153
16QAM	2510	20850	20	1	49	22.54	21.29	0.135
16QAM	2510	20850	20	1	99	22.41	21.16	0.131
16QAM	2510	20850	20	50	0	21.53	20.28	0.107
16QAM	2510	20850	20	50	24	21.51	20.26	0.106
16QAM	2510	20850	20	50	50	21.40	20.15	0.104
16QAM	2510	20850	20	100	0	21.34	20.09	0.102
16QAM	2535	21100	20	1	0	22.31	21.06	0.128
16QAM	2535	21100	20	1	49	22.97	21.72	0.149
16QAM	2535	21100	20	1	99	23.28	22.03	0.160
16QAM	2535	21100	20	50	0	21.47	20.22	0.105
16QAM	2535	21100	20	50	24	21.21	19.96	0.099
16QAM	2535	21100	20	50	50	21.35	20.10	0.102
16QAM	2535	21100	20	100	0	21.44	20.19	0.104
16QAM	2560	21350	20	1	0	22.71	21.46	0.140
16QAM	2560	21350	20	1	49	22.85	21.60	0.145
16QAM	2560	21350	20	1	99	23.31	22.06	0.161
16QAM	2560	21350	20	50	0	21.40	20.15	0.104
16QAM	2560	21350	20	50	24	21.29	20.04	0.101
16QAM	2560	21350	20	50	50	21.46	20.21	0.105
16QAM	2560	21350	20	100	0	21.51	20.26	0.106