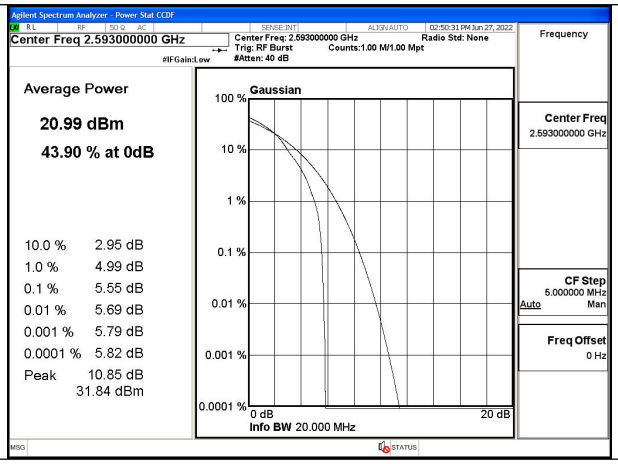

Fig.61

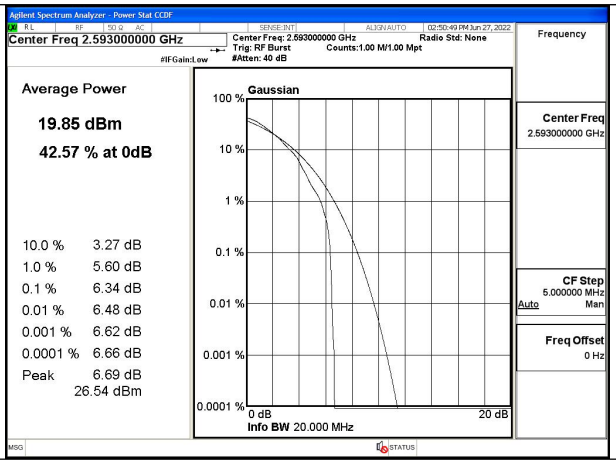

Fig.62

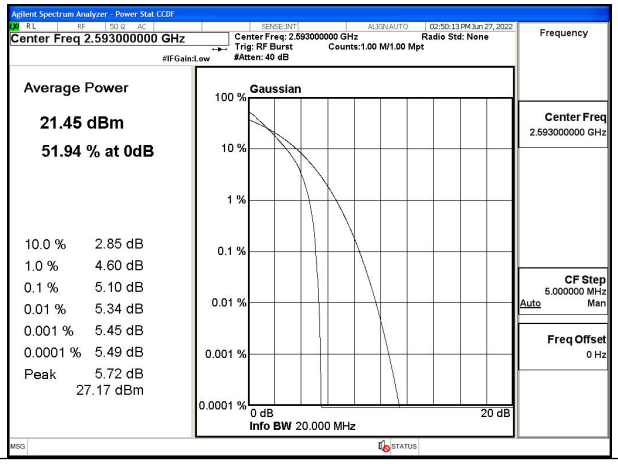

Fig.63

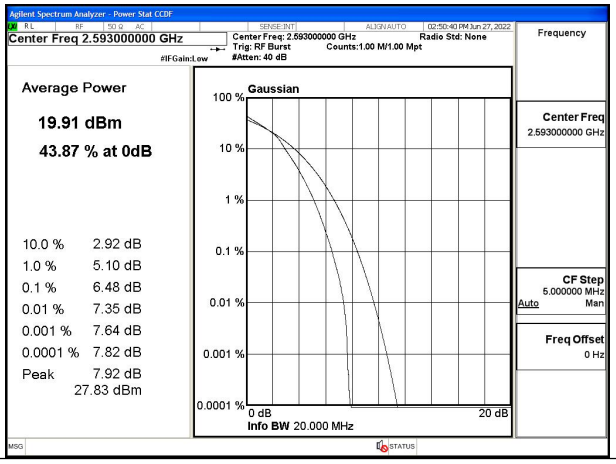

Fig.64

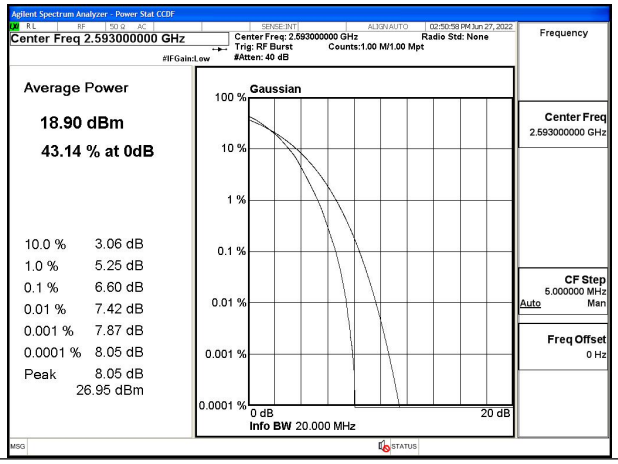

Fig.65

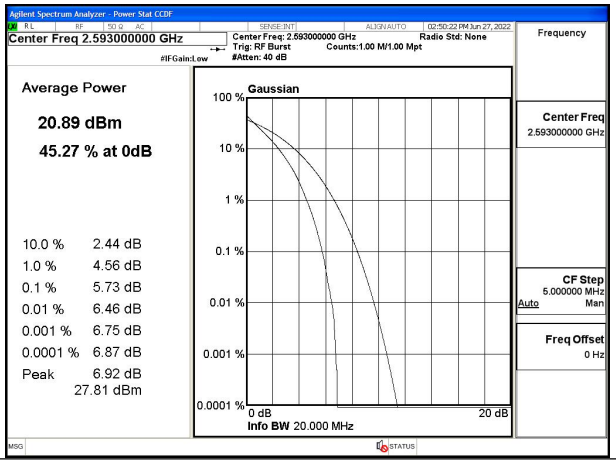

Fig.66

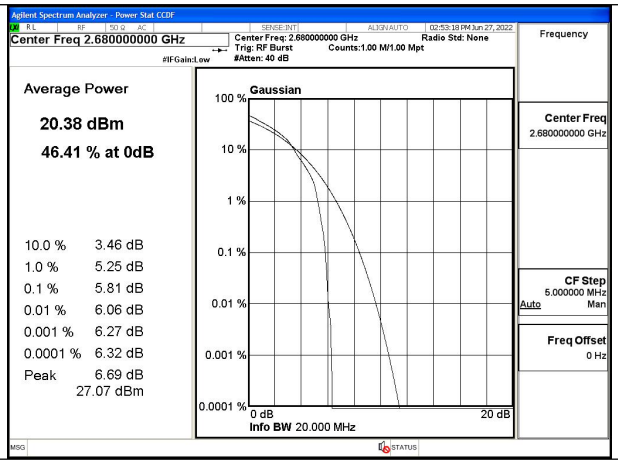

Fig.67

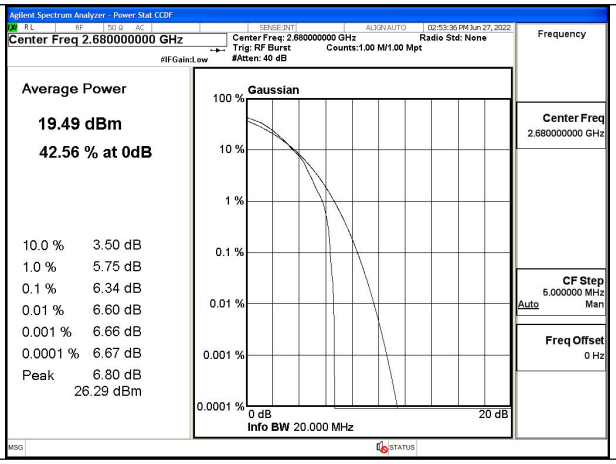

Fig.68

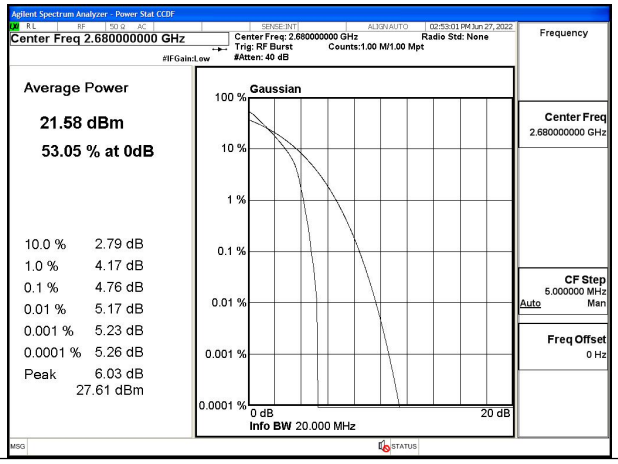

Fig.69

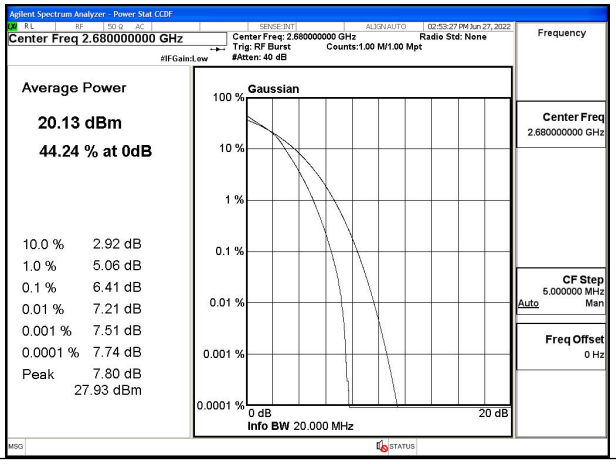

Fig.70

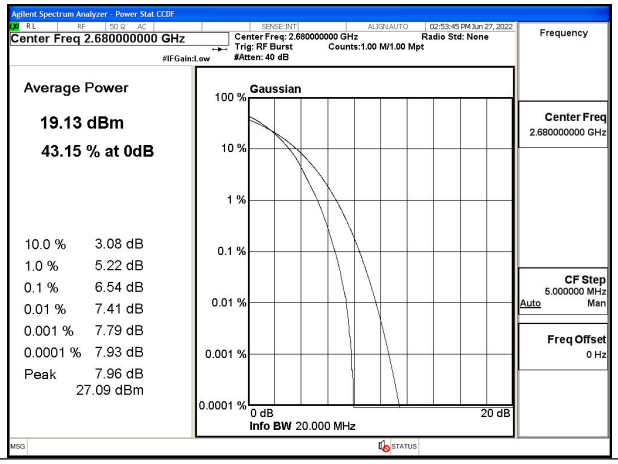

Fig.71

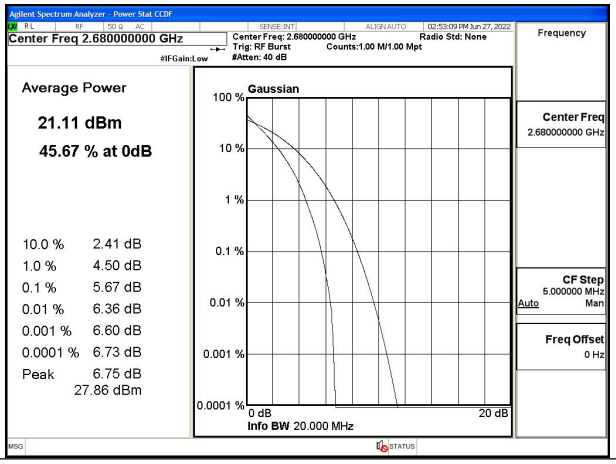

Fig.72

5 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
41	2506	39750	20	1	0	Fig.1
41	2593	40620	20	1	0	Fig.2
41	2680	41490	20	1	0	Fig.3

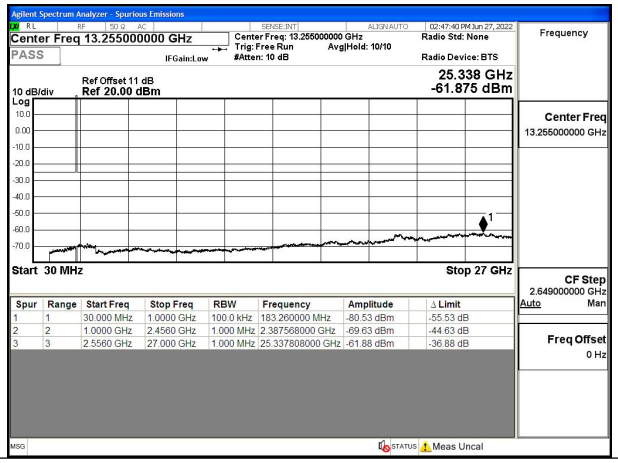

Fig.1

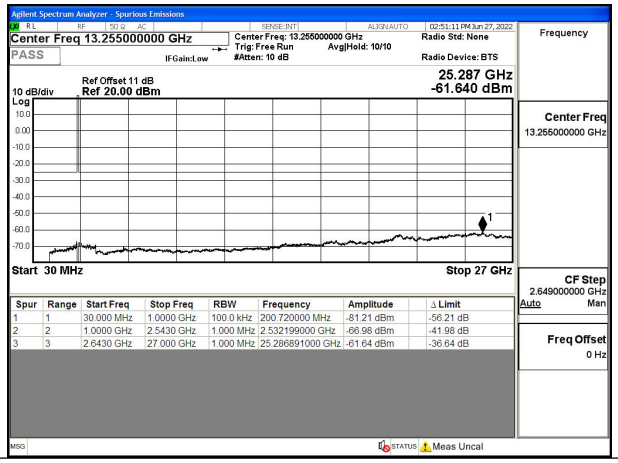

Fig.2

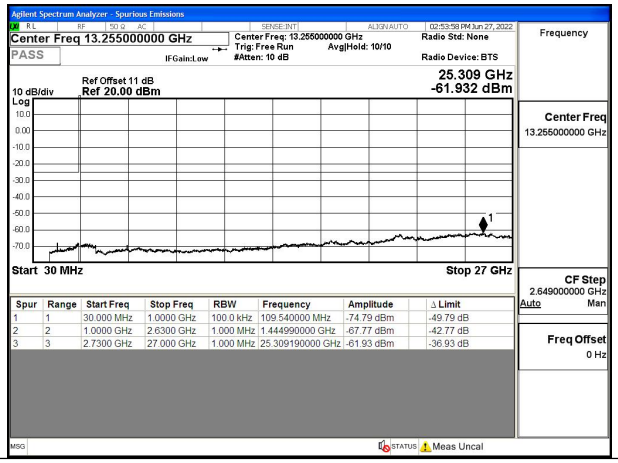

Fig.3

6 Band Edges Compliance

Band	Mode	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
41	QPSK	2498.5	39675	5	1	0	Fig.1
41	QPSK	2498.5	39675	5	25	0	Fig.2
41	QPSK	2687.5	41565	5	1	24	Fig.3
41	QPSK	2687.5	41565	5	25	0	Fig.4
41	QPSK	2501	39700	10	1	0	Fig.5
41	QPSK	2501	39700	10	50	0	Fig.6
41	QPSK	2685	41540	10	1	49	Fig.7
41	QPSK	2685	41540	10	50	0	Fig.8
41	QPSK	2503.5	39725	15	1	0	Fig.9
41	QPSK	2503.5	39725	15	75	0	Fig.10
41	QPSK	2682.5	41515	15	1	74	Fig.11
41	QPSK	2682.5	41515	15	75	0	Fig.12
41	QPSK	2506	39750	20	1	0	Fig.13
41	QPSK	2506	39750	20	100	0	Fig.14
41	QPSK	2680	41490	20	1	99	Fig.15
41	QPSK	2680	41490	20	100	0	Fig.16

Test Mode: QPSK

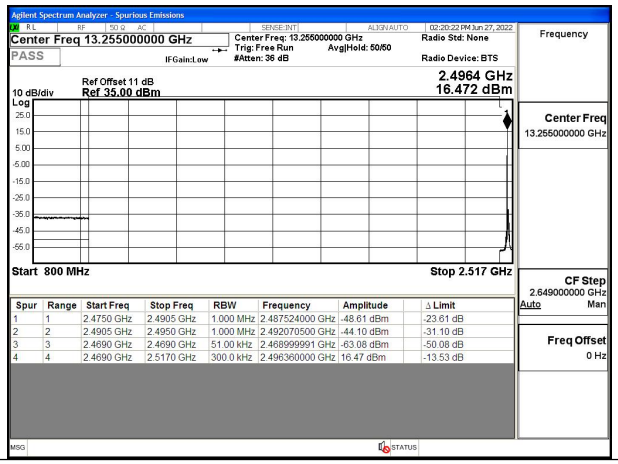

Fig.1

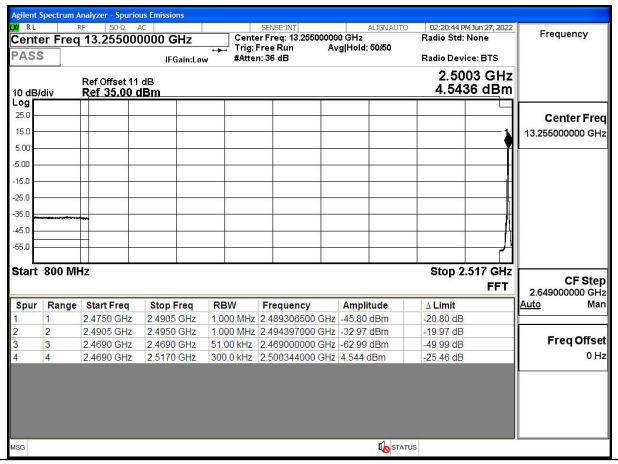

Fig.2

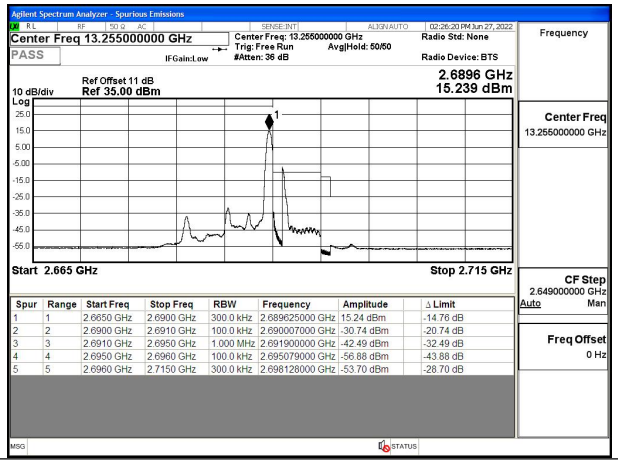

Fig.3

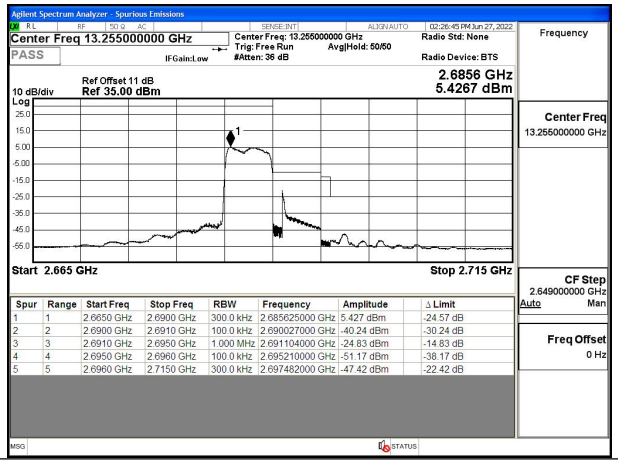

Fig.4

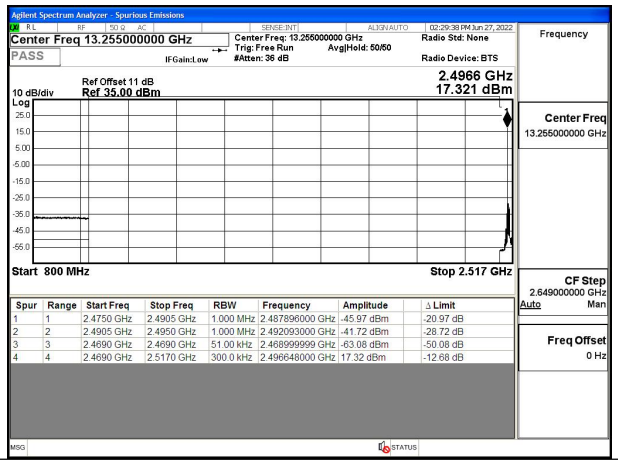

Fig.5

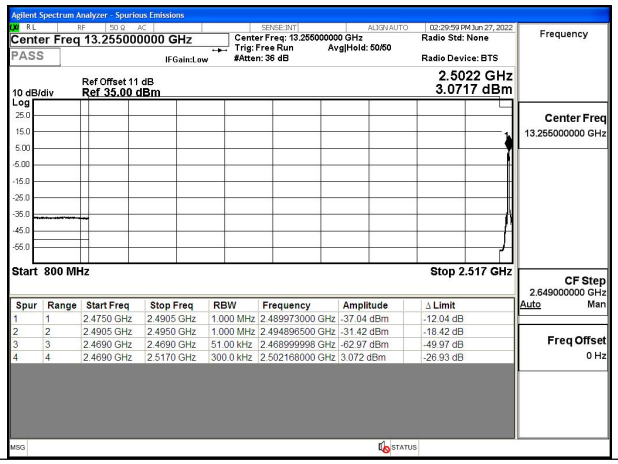

Fig.6

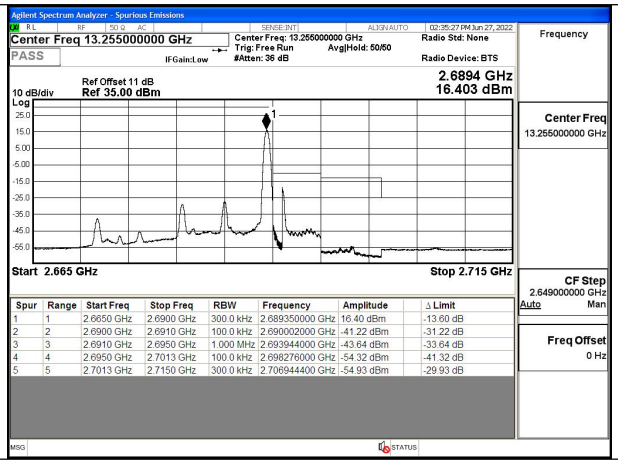

Fig.7

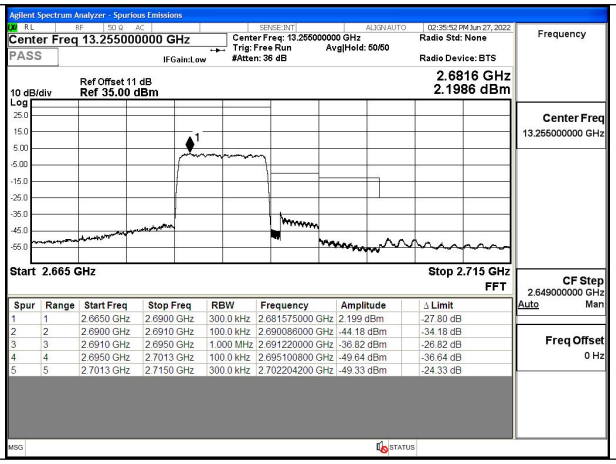

Fig.8

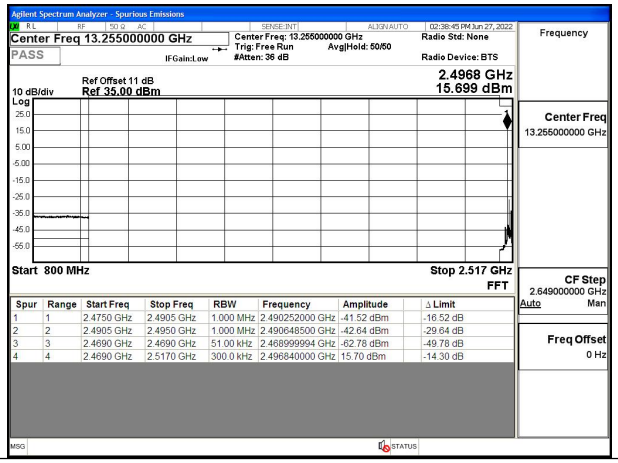

Fig.9

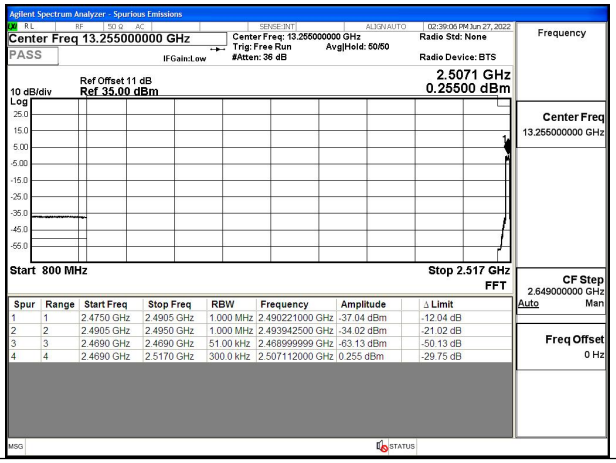

Fig.10

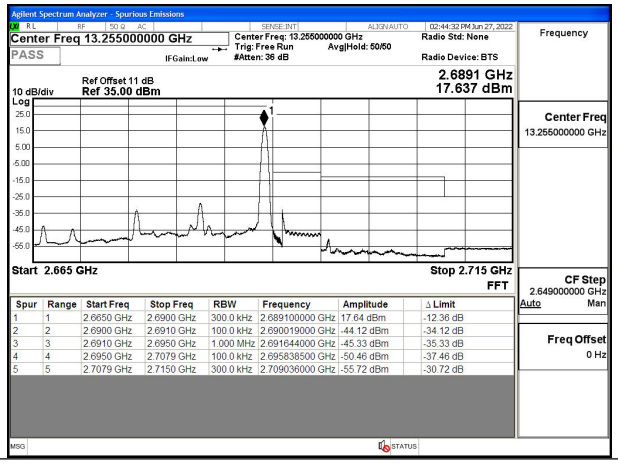

Fig.11

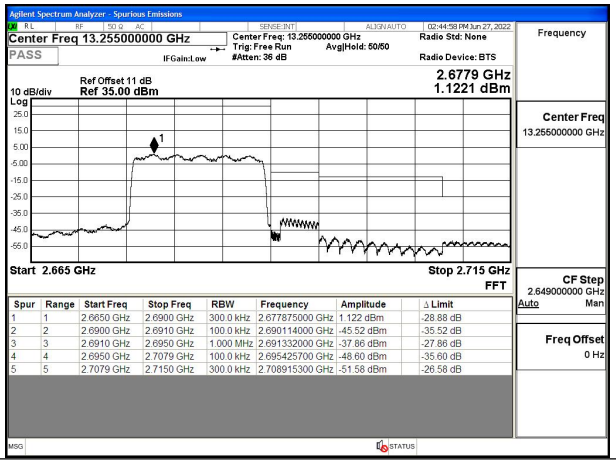

Fig.12

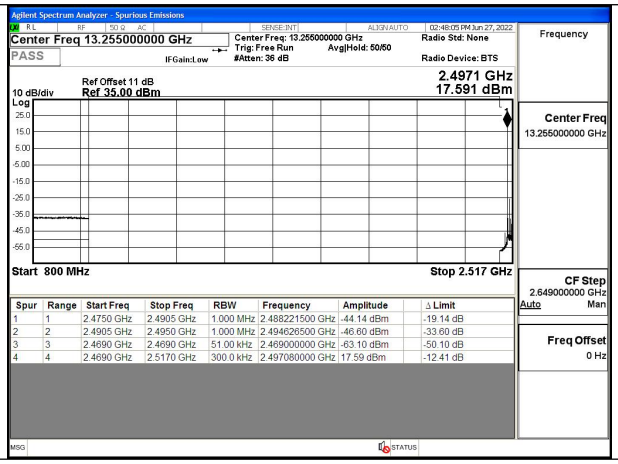

Fig.13

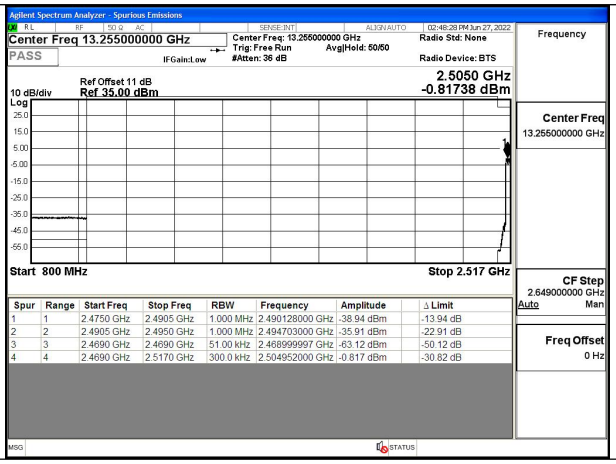

Fig.14

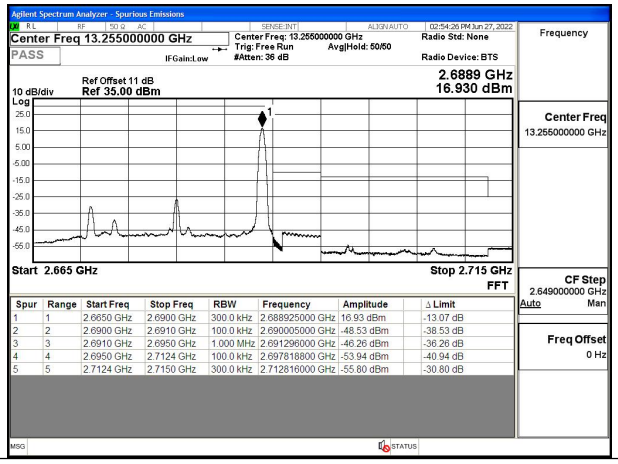

Fig.15

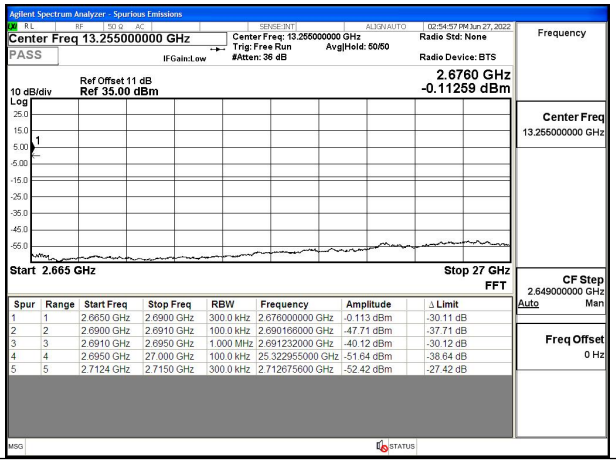

Fig.16

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band 41 Low Channel QPSK			
		5M	10M	15M	20M
-10	NV	-0.006	0.001	-0.002	-0.003
0	NV	-0.007	-0.003	-0.002	-0.005
+10	NV	-0.008	-0.002	-0.005	-0.003
+20	NV	-0.004	0.000	-0.005	-0.003
+30	NV	-0.005	-0.002	0.001	-0.004
+40	NV	-0.004	-0.001	-0.003	-0.004
+50	NV	-0.005	-0.001	-0.002	-0.003
+55	NV	-0.006	-0.002	-0.002	0.003
+20	LV	-0.007	-0.003	-0.002	-0.003
+20	HV	-0.003	-0.003	-0.001	-0.002

Temperature(°C)	Voltage	Test Result (ppm) Band 41 High Channel QPSK			
		5M	10M	15M	20M
-10	NV	-0.004	-0.003	0.000	0.001
0	NV	-0.003	-0.003	-0.002	-0.005
+10	NV	-0.002	-0.001	-0.004	-0.003
+20	NV	-0.005	-0.004	-0.003	-0.002
+30	NV	-0.003	-0.004	-0.003	-0.001
+40	NV	-0.004	-0.003	-0.002	-0.003
+50	NV	-0.003	-0.003	-0.003	0.002
+55	NV	-0.001	-0.001	-0.004	-0.001
+20	LV	-0.001	0.002	-0.001	-0.003
+20	HV	-0.002	-0.003	0.000	-0.003

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	2498.5	39675	5	1	0	21.93	17.93	0.062
QPSK	2498.5	39675	5	1	12	21.95	17.95	0.062
QPSK	2498.5	39675	5	1	24	21.84	17.84	0.061
QPSK	2498.5	39675	5	12	0	21.10	17.10	0.051
QPSK	2498.5	39675	5	12	7	21.08	17.08	0.051
QPSK	2498.5	39675	5	12	13	21.08	17.08	0.051
QPSK	2498.5	39675	5	25	0	21.04	17.04	0.051
QPSK	2593	40620	5	1	0	22.18	18.18	0.066
QPSK	2593	40620	5	1	12	22.27	18.27	0.067
QPSK	2593	40620	5	1	24	22.06	18.06	0.064
QPSK	2593	40620	5	12	0	21.24	17.24	0.053
QPSK	2593	40620	5	12	7	21.26	17.26	0.053
QPSK	2593	40620	5	12	13	21.20	17.20	0.052
QPSK	2593	40620	5	25	0	21.26	17.26	0.053
QPSK	2687.5	41565	5	1	0	22.51	18.51	0.071
QPSK	2687.5	41565	5	1	12	22.60	18.60	0.072
QPSK	2687.5	41565	5	1	24	22.48	18.48	0.070
QPSK	2687.5	41565	5	12	0	21.67	17.67	0.058
QPSK	2687.5	41565	5	12	7	21.66	17.66	0.058
QPSK	2687.5	41565	5	12	13	21.65	17.65	0.058
QPSK	2687.5	41565	5	25	0	21.66	17.66	0.058

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	2498.5	39675	5	1	0	21.06	17.06	0.051
16QAM	2498.5	39675	5	1	12	21.08	17.08	0.051
16QAM	2498.5	39675	5	1	24	21.00	17.00	0.050
16QAM	2498.5	39675	5	12	0	20.11	16.11	0.041
16QAM	2498.5	39675	5	12	7	20.05	16.05	0.040
16QAM	2498.5	39675	5	12	13	20.06	16.06	0.040
16QAM	2498.5	39675	5	25	0	20.07	16.07	0.040
16QAM	2593	40620	5	1	0	21.27	17.27	0.053
16QAM	2593	40620	5	1	12	21.44	17.44	0.055
16QAM	2593	40620	5	1	24	21.36	17.36	0.054
16QAM	2593	40620	5	12	0	20.36	16.36	0.043
16QAM	2593	40620	5	12	7	20.33	16.33	0.043
16QAM	2593	40620	5	12	13	20.30	16.30	0.043
16QAM	2593	40620	5	25	0	20.26	16.26	0.042
16QAM	2687.5	41565	5	1	0	21.66	17.66	0.058
16QAM	2687.5	41565	5	1	12	21.84	17.84	0.061
16QAM	2687.5	41565	5	1	24	21.75	17.75	0.060
16QAM	2687.5	41565	5	12	0	20.73	16.73	0.047
16QAM	2687.5	41565	5	12	7	20.75	16.75	0.047
16QAM	2687.5	41565	5	12	13	20.68	16.68	0.047
16QAM	2687.5	41565	5	25	0	20.77	16.77	0.048
64QAM	2498.5	39675	5	1	0	19.88	15.88	0.039
64QAM	2498.5	39675	5	1	12	19.95	15.95	0.039
64QAM	2498.5	39675	5	1	24	19.87	15.87	0.039
64QAM	2498.5	39675	5	12	0	19.14	15.14	0.033
64QAM	2498.5	39675	5	12	7	19.26	15.26	0.034
64QAM	2498.5	39675	5	12	13	19.21	15.21	0.033
64QAM	2498.5	39675	5	25	0	19.20	15.20	0.033
64QAM	2593	40620	5	1	0	20.22	16.22	0.042
64QAM	2593	40620	5	1	12	20.32	16.32	0.043
64QAM	2593	40620	5	1	24	20.20	16.20	0.042
64QAM	2593	40620	5	12	0	19.29	15.29	0.034
64QAM	2593	40620	5	12	7	19.38	15.38	0.035
64QAM	2593	40620	5	12	13	19.36	15.36	0.034
64QAM	2593	40620	5	25	0	19.43	15.43	0.035
64QAM	2687.5	41565	5	1	0	20.59	16.59	0.046
64QAM	2687.5	41565	5	1	12	20.66	16.66	0.046
64QAM	2687.5	41565	5	1	24	20.63	16.63	0.046
64QAM	2687.5	41565	5	12	0	19.86	15.86	0.039
64QAM	2687.5	41565	5	12	7	19.74	15.74	0.037
64QAM	2687.5	41565	5	12	13	19.69	15.69	0.037
64QAM	2687.5	41565	5	25	0	19.84	15.84	0.038

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	2501	39700	10	1	0	21.93	17.93	0.062
QPSK	2501	39700	10	1	25	21.92	17.92	0.062
QPSK	2501	39700	10	1	49	21.85	17.85	0.061
QPSK	2501	39700	10	25	0	21.02	17.02	0.050
QPSK	2501	39700	10	25	12	21.06	17.06	0.051
QPSK	2501	39700	10	25	25	21.04	17.04	0.051
QPSK	2501	39700	10	50	0	21.08	17.08	0.051
QPSK	2593	40620	10	1	0	22.27	18.27	0.067
QPSK	2593	40620	10	1	25	22.31	18.31	0.068
QPSK	2593	40620	10	1	49	22.22	18.22	0.066
QPSK	2593	40620	10	25	0	21.34	17.34	0.054
QPSK	2593	40620	10	25	12	21.36	17.36	0.054
QPSK	2593	40620	10	25	25	21.27	17.27	0.053
QPSK	2593	40620	10	50	0	21.32	17.32	0.054
QPSK	2685	41540	10	1	0	22.46	18.46	0.070
QPSK	2685	41540	10	1	25	22.62	18.62	0.073
QPSK	2685	41540	10	1	49	22.60	18.60	0.072
QPSK	2685	41540	10	25	0	21.71	17.71	0.059
QPSK	2685	41540	10	25	12	21.61	17.61	0.058
QPSK	2685	41540	10	25	25	21.58	17.58	0.057
QPSK	2685	41540	10	50	0	21.63	17.63	0.058

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	2501	39700	10	1	0	21.19	17.19	0.052
16QAM	2501	39700	10	1	25	21.17	17.17	0.052
16QAM	2501	39700	10	1	49	21.03	17.03	0.050
16QAM	2501	39700	10	25	0	20.15	16.15	0.041
16QAM	2501	39700	10	25	12	20.07	16.07	0.040
16QAM	2501	39700	10	25	25	20.18	16.18	0.041
16QAM	2501	39700	10	50	0	20.13	16.13	0.041
16QAM	2593	40620	10	1	0	21.52	17.52	0.056
16QAM	2593	40620	10	1	25	21.55	17.55	0.057
16QAM	2593	40620	10	1	49	21.44	17.44	0.055
16QAM	2593	40620	10	25	0	20.43	16.43	0.044
16QAM	2593	40620	10	25	12	20.39	16.39	0.044
16QAM	2593	40620	10	25	25	20.38	16.38	0.043
16QAM	2593	40620	10	50	0	20.39	16.39	0.044
16QAM	2685	41540	10	1	0	21.71	17.71	0.059
16QAM	2685	41540	10	1	25	21.88	17.88	0.061
16QAM	2685	41540	10	1	49	21.75	17.75	0.060
16QAM	2685	41540	10	25	0	20.77	16.77	0.048
16QAM	2685	41540	10	25	12	20.83	16.83	0.048
16QAM	2685	41540	10	25	25	20.76	16.76	0.047
16QAM	2685	41540	10	50	0	20.79	16.79	0.048
64QAM	2501	39700	10	1	0	20.04	16.04	0.040
64QAM	2501	39700	10	1	25	20.04	16.04	0.040
64QAM	2501	39700	10	1	49	19.93	15.93	0.039
64QAM	2501	39700	10	25	0	19.16	15.16	0.033
64QAM	2501	39700	10	25	12	19.25	15.25	0.033
64QAM	2501	39700	10	25	25	19.18	15.18	0.033
64QAM	2501	39700	10	50	0	19.15	15.15	0.033
64QAM	2593	40620	10	1	0	20.21	16.21	0.042
64QAM	2593	40620	10	1	25	20.44	16.44	0.044
64QAM	2593	40620	10	1	49	20.23	16.23	0.042
64QAM	2593	40620	10	25	0	19.47	15.47	0.035
64QAM	2593	40620	10	25	12	19.52	15.52	0.036
64QAM	2593	40620	10	25	25	19.45	15.45	0.035
64QAM	2593	40620	10	50	0	19.42	15.42	0.035
64QAM	2685	41540	10	1	0	20.55	16.55	0.045
64QAM	2685	41540	10	1	25	20.79	16.79	0.048
64QAM	2685	41540	10	1	49	20.60	16.60	0.046
64QAM	2685	41540	10	25	0	19.85	15.85	0.038
64QAM	2685	41540	10	25	12	19.82	15.82	0.038
64QAM	2685	41540	10	25	25	19.75	15.75	0.038
64QAM	2685	41540	10	50	0	19.76	15.76	0.038

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	2503.5	39725	15	1	0	21.89	17.89	0.062
QPSK	2503.5	39725	15	1	37	21.94	17.94	0.062
QPSK	2503.5	39725	15	1	74	21.84	17.84	0.061
QPSK	2503.5	39725	15	36	0	21.03	17.03	0.050
QPSK	2503.5	39725	15	36	29	21.02	17.02	0.050
QPSK	2503.5	39725	15	36	30	20.96	16.96	0.050
QPSK	2503.5	39725	15	75	0	20.99	16.99	0.050
QPSK	2593	40620	15	1	0	22.22	18.22	0.066
QPSK	2593	40620	15	1	37	22.27	18.27	0.067
QPSK	2593	40620	15	1	74	22.26	18.26	0.067
QPSK	2593	40620	15	36	0	21.24	17.24	0.053
QPSK	2593	40620	15	36	29	21.21	17.21	0.053
QPSK	2593	40620	15	36	30	21.24	17.24	0.053
QPSK	2593	40620	15	75	0	21.20	17.20	0.052
QPSK	2682.5	41515	15	1	0	22.40	18.40	0.069
QPSK	2682.5	41515	15	1	37	22.60	18.60	0.072
QPSK	2682.5	41515	15	1	74	22.50	18.50	0.071
QPSK	2682.5	41515	15	36	0	21.55	17.55	0.057
QPSK	2682.5	41515	15	36	29	21.59	17.59	0.057
QPSK	2682.5	41515	15	36	30	21.61	17.61	0.058
QPSK	2682.5	41515	15	75	0	21.52	17.52	0.056

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	2503.5	39725	15	1	0	21.06	17.06	0.051
16QAM	2503.5	39725	15	1	37	21.06	17.06	0.051
16QAM	2503.5	39725	15	1	74	20.97	16.97	0.050
16QAM	2503.5	39725	15	36	0	19.90	15.90	0.039
16QAM	2503.5	39725	15	36	29	19.98	15.98	0.040
16QAM	2503.5	39725	15	36	30	20.01	16.01	0.040
16QAM	2503.5	39725	15	75	0	20.01	16.01	0.040
16QAM	2593	40620	15	1	0	21.37	17.37	0.055
16QAM	2593	40620	15	1	37	21.53	17.53	0.057
16QAM	2593	40620	15	1	74	21.41	17.41	0.055
16QAM	2593	40620	15	36	0	20.30	16.30	0.043
16QAM	2593	40620	15	36	29	20.31	16.31	0.043
16QAM	2593	40620	15	36	30	20.29	16.29	0.043
16QAM	2593	40620	15	75	0	20.24	16.24	0.042
16QAM	2682.5	41515	15	1	0	21.60	17.60	0.058
16QAM	2682.5	41515	15	1	37	21.80	17.80	0.060
16QAM	2682.5	41515	15	1	74	21.76	17.76	0.060
16QAM	2682.5	41515	15	36	0	20.63	16.63	0.046
16QAM	2682.5	41515	15	36	29	20.61	16.61	0.046
16QAM	2682.5	41515	15	36	30	20.62	16.62	0.046
16QAM	2682.5	41515	15	75	0	20.61	16.61	0.046
64QAM	2503.5	39725	15	1	0	20.03	16.03	0.040
64QAM	2503.5	39725	15	1	37	19.98	15.98	0.040
64QAM	2503.5	39725	15	1	74	19.90	15.90	0.039
64QAM	2503.5	39725	15	36	0	19.07	15.07	0.032
64QAM	2503.5	39725	15	36	29	19.16	15.16	0.033
64QAM	2503.5	39725	15	36	30	19.06	15.06	0.032
64QAM	2503.5	39725	15	75	0	19.16	15.16	0.033
64QAM	2593	40620	15	1	0	20.14	16.14	0.041
64QAM	2593	40620	15	1	37	20.34	16.34	0.043
64QAM	2593	40620	15	1	74	20.24	16.24	0.042
64QAM	2593	40620	15	36	0	19.24	15.24	0.033
64QAM	2593	40620	15	36	29	19.28	15.28	0.034
64QAM	2593	40620	15	36	30	19.27	15.27	0.034
64QAM	2593	40620	15	75	0	19.35	15.35	0.034
64QAM	2682.5	41515	15	1	0	20.42	16.42	0.044
64QAM	2682.5	41515	15	1	37	20.65	16.65	0.046
64QAM	2682.5	41515	15	1	74	20.60	16.60	0.046
64QAM	2682.5	41515	15	36	0	19.57	15.57	0.036
64QAM	2682.5	41515	15	36	29	19.62	15.62	0.036
64QAM	2682.5	41515	15	36	30	19.63	15.63	0.037
64QAM	2682.5	41515	15	75	0	19.66	15.66	0.037

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	2506	39750	20	1	0	21.94	17.94	0.062
QPSK	2506	39750	20	1	49	21.96	17.96	0.063
QPSK	2506	39750	20	1	99	21.84	17.84	0.061
QPSK	2506	39750	20	50	0	21.04	17.04	0.051
QPSK	2506	39750	20	50	24	21.12	17.12	0.052
QPSK	2506	39750	20	50	50	20.94	16.94	0.049
QPSK	2506	39750	20	100	0	21.02	17.02	0.050
QPSK	2593	40620	20	1	0	22.20	18.20	0.066
QPSK	2593	40620	20	1	49	22.27	18.27	0.067
QPSK	2593	40620	20	1	99	22.17	18.17	0.066
QPSK	2593	40620	20	50	0	21.28	17.28	0.053
QPSK	2593	40620	20	50	24	21.13	17.13	0.052
QPSK	2593	40620	20	50	50	21.28	17.28	0.053
QPSK	2593	40620	20	100	0	21.22	17.22	0.053
QPSK	2680	41490	20	1	0	22.29	18.29	0.067
QPSK	2680	41490	20	1	49	22.54	18.54	0.071
QPSK	2680	41490	20	1	99	22.37	18.37	0.069
QPSK	2680	41490	20	50	0	21.48	17.48	0.056
QPSK	2680	41490	20	50	24	21.61	17.61	0.058
QPSK	2680	41490	20	50	50	21.47	17.47	0.056
QPSK	2680	41490	20	100	0	21.54	17.54	0.057

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	2506	39750	20	1	0	21.04	17.04	0.051
16QAM	2506	39750	20	1	49	21.14	17.14	0.052
16QAM	2506	39750	20	1	99	21.15	17.15	0.052
16QAM	2506	39750	20	50	0	20.06	16.06	0.040
16QAM	2506	39750	20	50	24	20.13	16.13	0.041
16QAM	2506	39750	20	50	50	20.11	16.11	0.041
16QAM	2506	39750	20	100	0	19.97	15.97	0.040
16QAM	2593	40620	20	1	0	21.37	17.37	0.055
16QAM	2593	40620	20	1	49	21.53	17.53	0.057
16QAM	2593	40620	20	1	99	21.33	17.33	0.054
16QAM	2593	40620	20	50	0	20.33	16.33	0.043
16QAM	2593	40620	20	50	24	20.31	16.31	0.043
16QAM	2593	40620	20	50	50	20.35	16.35	0.043
16QAM	2593	40620	20	100	0	20.38	16.38	0.043
16QAM	2680	41490	20	1	0	21.45	17.45	0.056
16QAM	2680	41490	20	1	49	21.76	17.76	0.060
16QAM	2680	41490	20	1	99	21.61	17.61	0.058
16QAM	2680	41490	20	50	0	20.60	16.60	0.046
16QAM	2680	41490	20	50	24	20.62	16.62	0.046
16QAM	2680	41490	20	50	50	20.60	16.60	0.046
16QAM	2680	41490	20	100	0	20.57	16.57	0.045
64QAM	2506	39750	20	1	0	19.91	15.91	0.039
64QAM	2506	39750	20	1	49	20.01	16.01	0.040
64QAM	2506	39750	20	1	99	19.88	15.88	0.039
64QAM	2506	39750	20	50	0	19.11	15.11	0.032
64QAM	2506	39750	20	50	24	19.17	15.17	0.033
64QAM	2506	39750	20	50	50	19.06	15.06	0.032
64QAM	2506	39750	20	100	0	19.09	15.09	0.032
64QAM	2593	40620	20	1	0	20.20	16.20	0.042
64QAM	2593	40620	20	1	49	20.35	16.35	0.043
64QAM	2593	40620	20	1	99	20.19	16.19	0.042
64QAM	2593	40620	20	50	0	19.39	15.39	0.035
64QAM	2593	40620	20	50	24	19.36	15.36	0.034
64QAM	2593	40620	20	50	50	19.25	15.25	0.033
64QAM	2593	40620	20	100	0	19.37	15.37	0.034
64QAM	2680	41490	20	1	0	20.31	16.31	0.043
64QAM	2680	41490	20	1	49	20.62	16.62	0.046
64QAM	2680	41490	20	1	99	20.55	16.55	0.045
64QAM	2680	41490	20	50	0	19.52	15.52	0.036
64QAM	2680	41490	20	50	24	19.67	15.67	0.037
64QAM	2680	41490	20	50	50	19.52	15.52	0.036
64QAM	2680	41490	20	100	0	19.56	15.56	0.036