

Fig.61

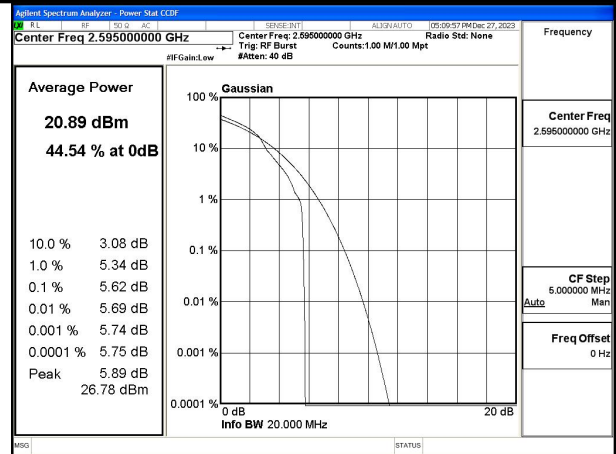


Fig.62

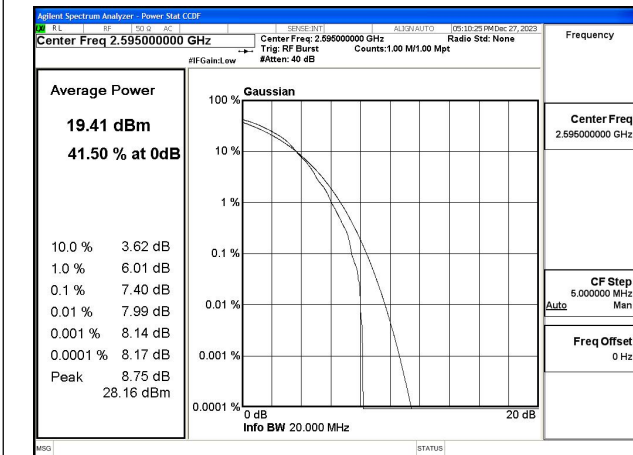


Fig.63

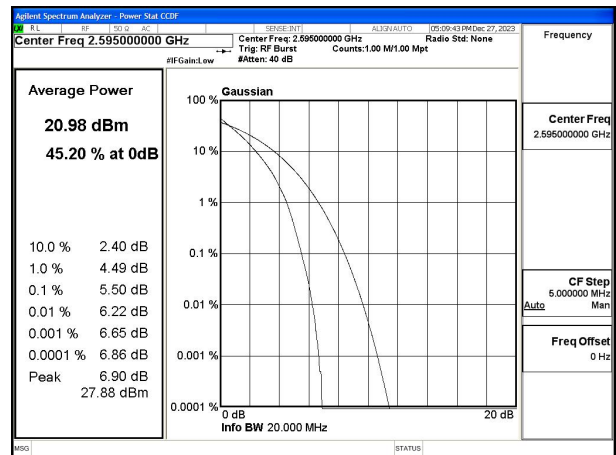


Fig.64

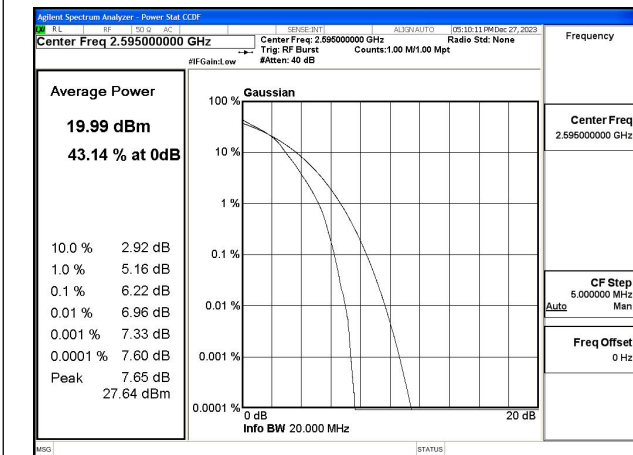


Fig.65

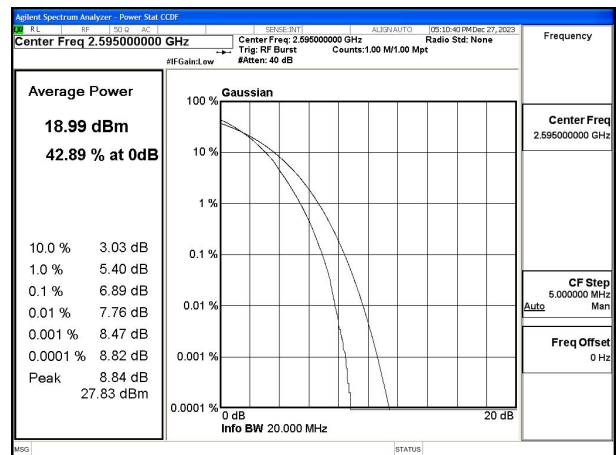


Fig.66

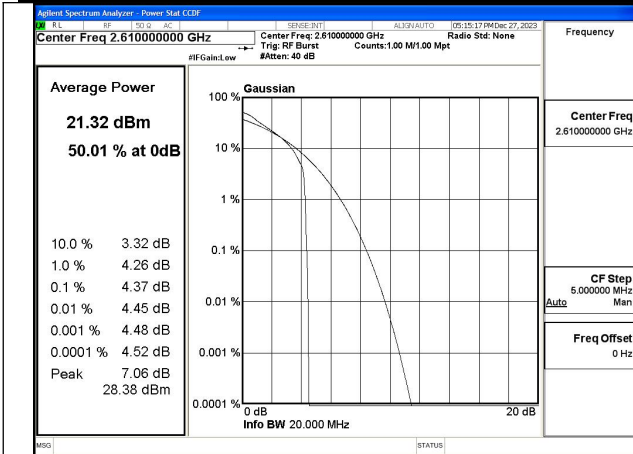


Fig.67

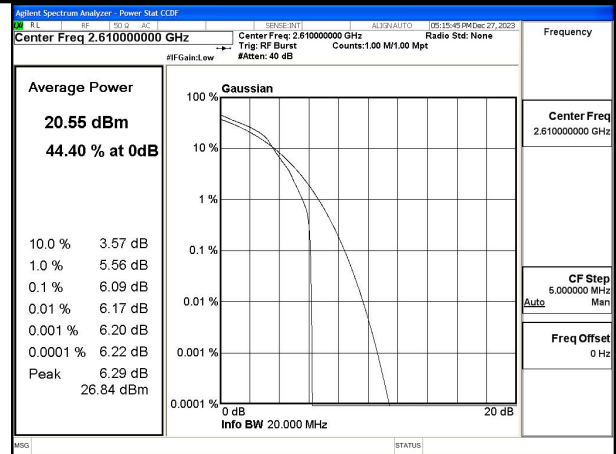


Fig.68

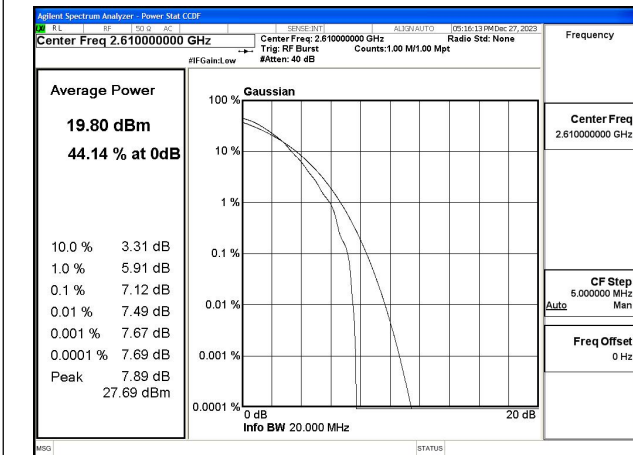


Fig.69

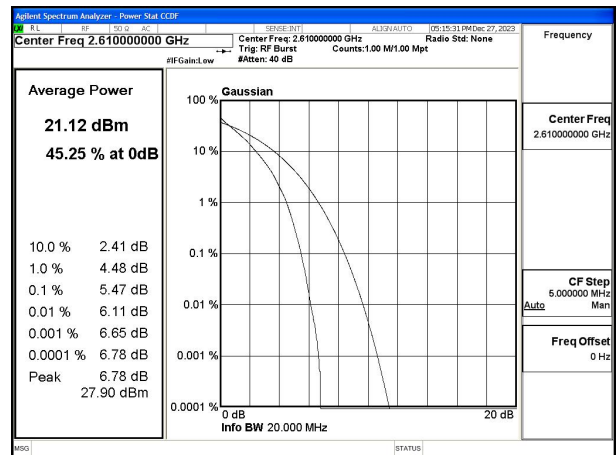


Fig.70

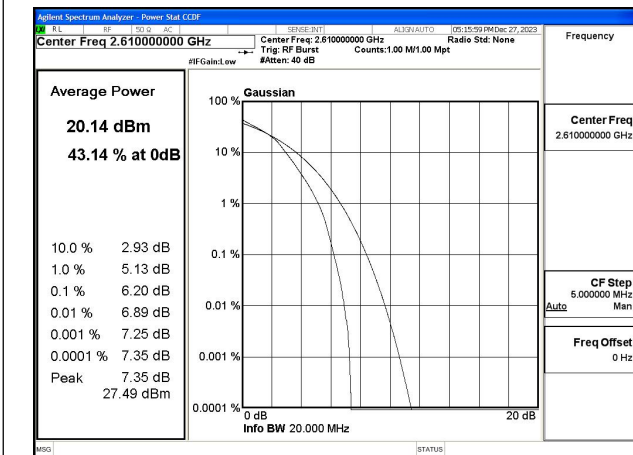


Fig.71

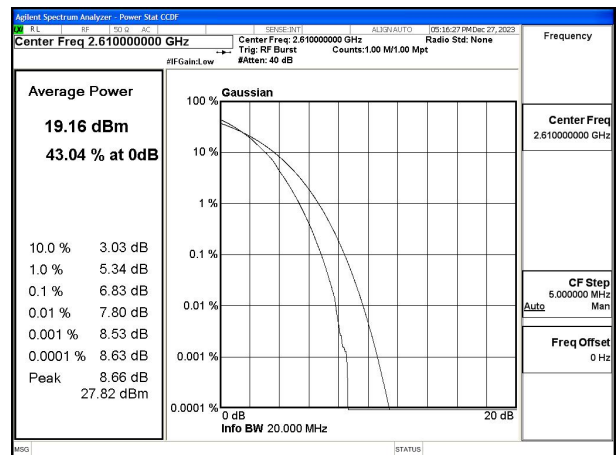


Fig.72

5 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
38	2580	37850	20	1	0	Fig.1
38	2595	38000	20	1	0	Fig.2
38	2610	38150	20	1	0	Fig.3

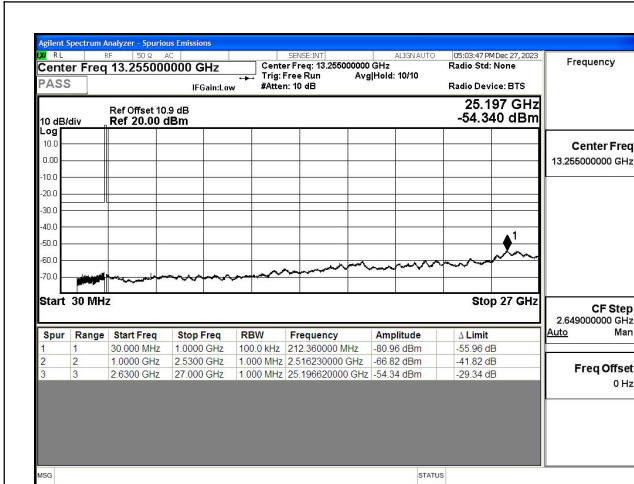


Fig.1

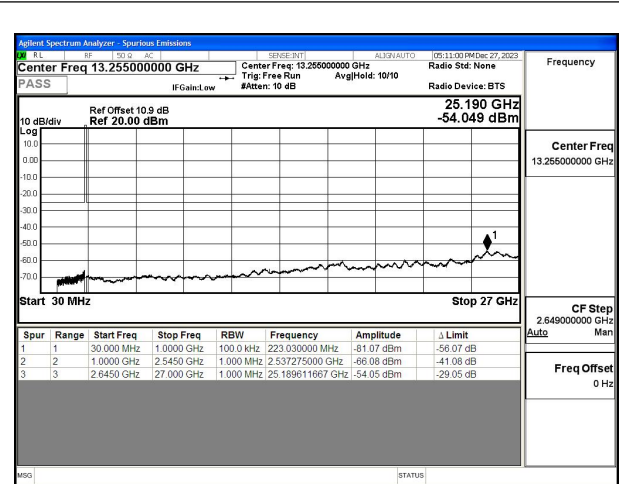


Fig.2

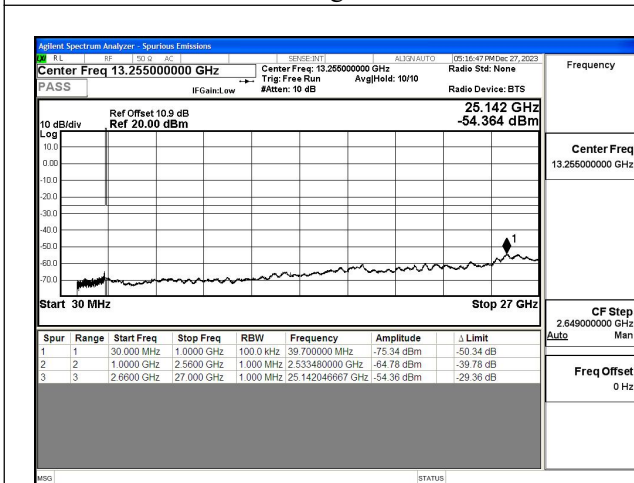


Fig.3

6 Band Edges Compliance

Band	Mode	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
38	QPSK	2572.5	37775	5	1	0	Fig.1
38	QPSK	2572.5	37775	5	25	0	Fig.2
38	QPSK	2617.5	38225	5	1	24	Fig.3
38	QPSK	2617.5	38225	5	25	0	Fig.4
38	QPSK	2575	37800	10	1	0	Fig.5
38	QPSK	2575	37800	10	50	0	Fig.6
38	QPSK	2615	38200	10	1	49	Fig.7
38	QPSK	2615	38200	10	50	0	Fig.8
38	QPSK	2577.5	37825	15	1	0	Fig.9
38	QPSK	2577.5	37825	15	75	0	Fig.10
38	QPSK	2612.5	38175	15	1	74	Fig.11
38	QPSK	2612.5	38175	15	75	0	Fig.12
38	QPSK	2580	37850	20	1	0	Fig.13
38	QPSK	2580	37850	20	100	0	Fig.14
38	QPSK	2610	38150	20	1	99	Fig.15
38	QPSK	2610	38150	20	100	0	Fig.16

Test Mode: QPSK

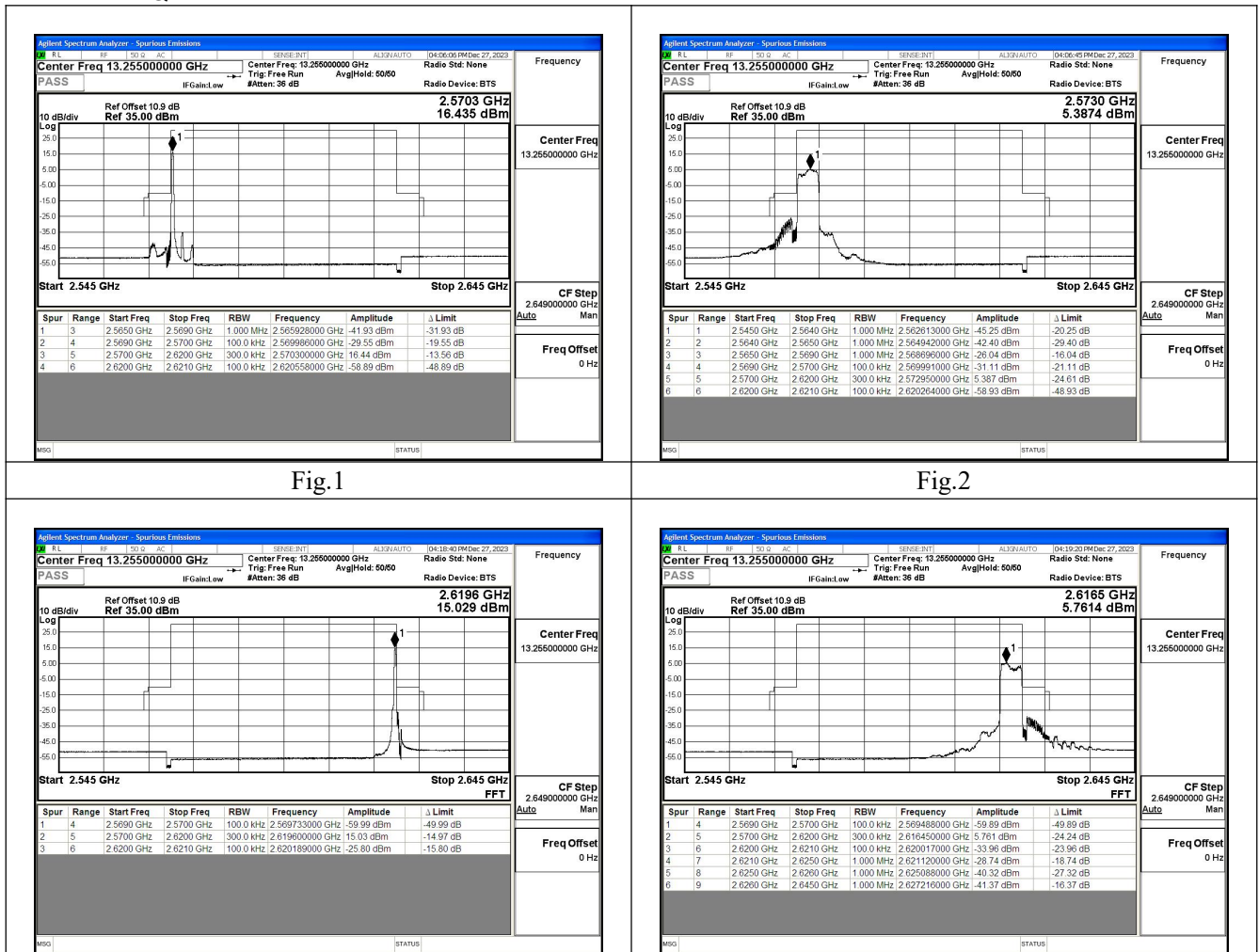


Fig.3

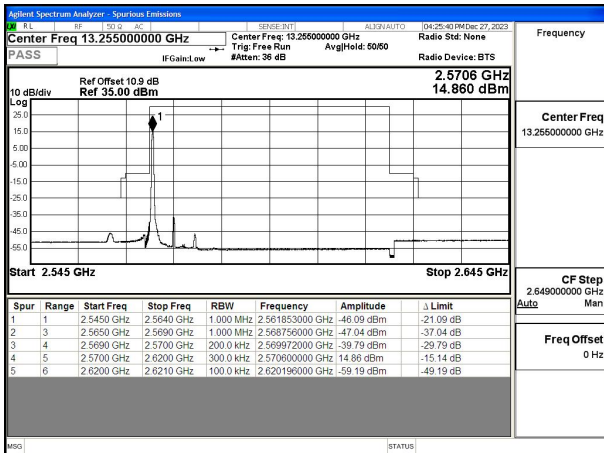


Fig.4

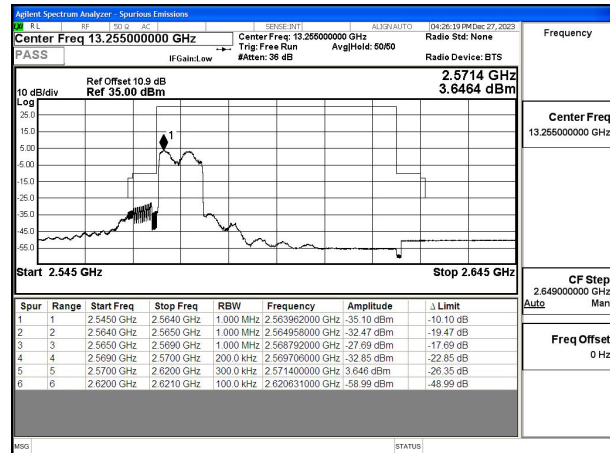


Fig.5

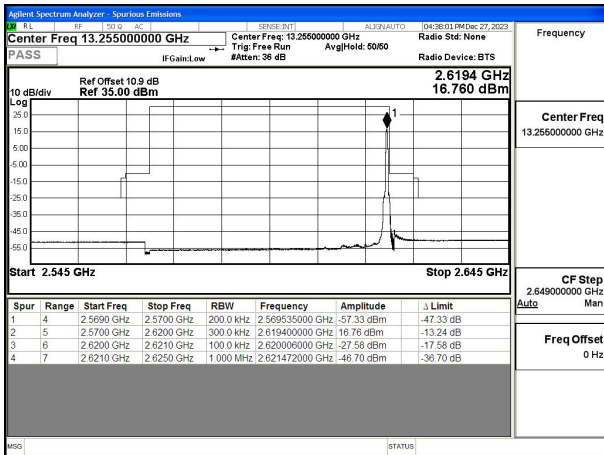


Fig.6

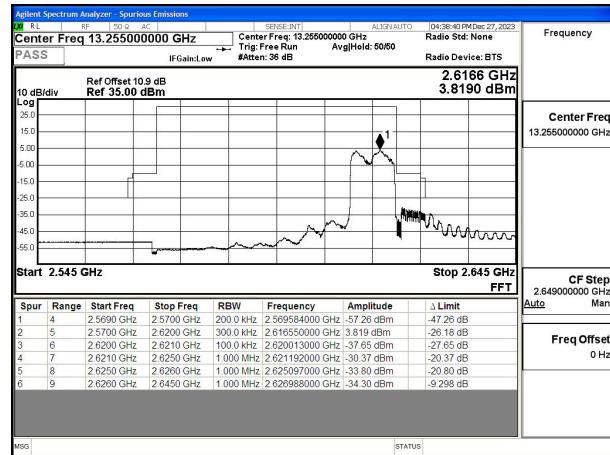


Fig.7

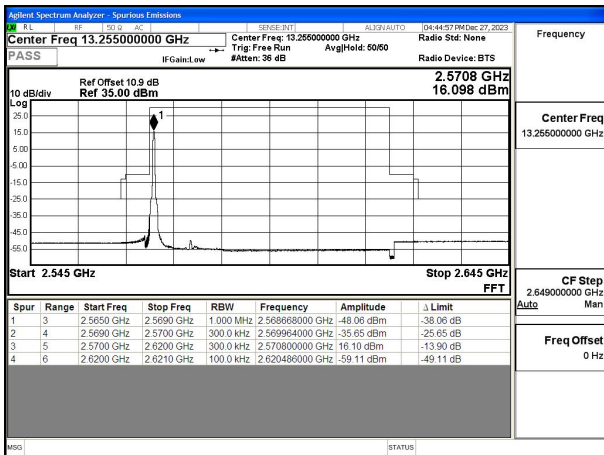


Fig.8

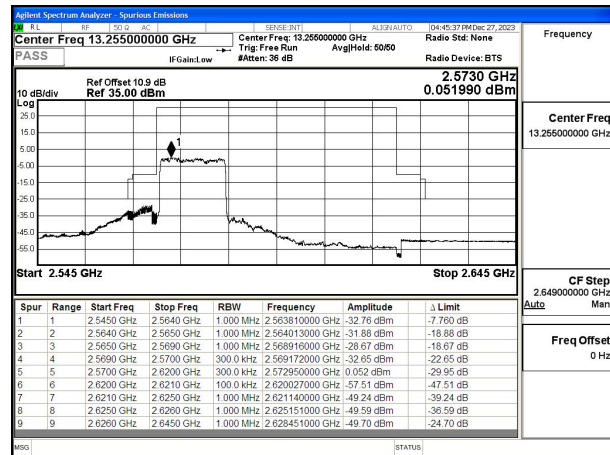


Fig.9



Fig.10



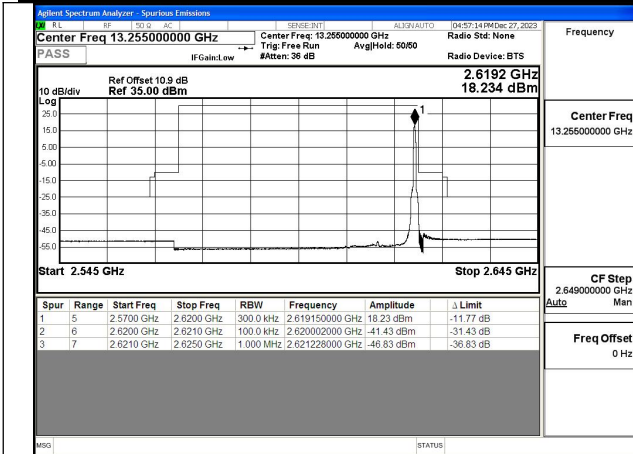


Fig. 11

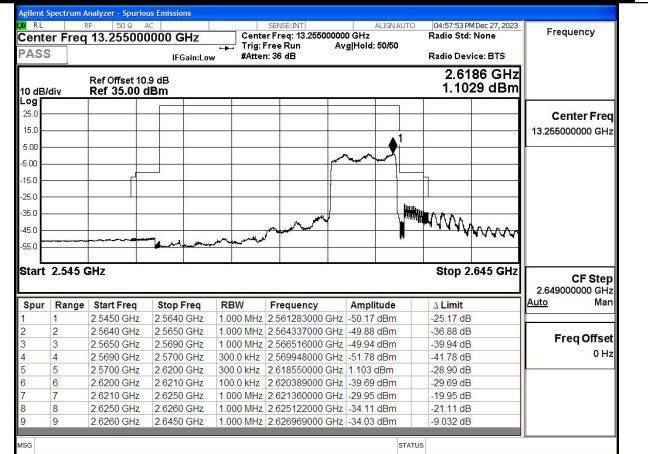


Fig. 12

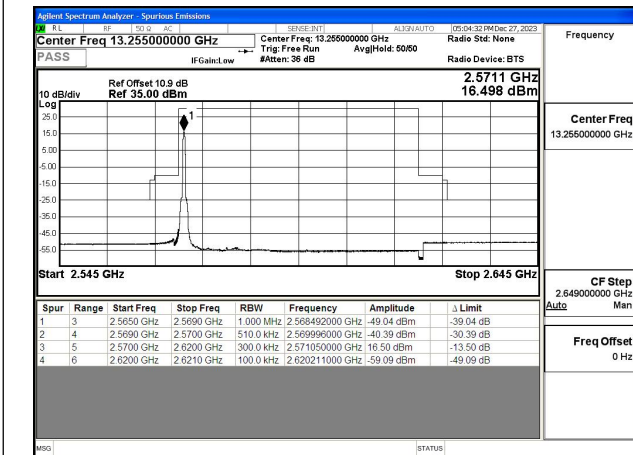


Fig. 13

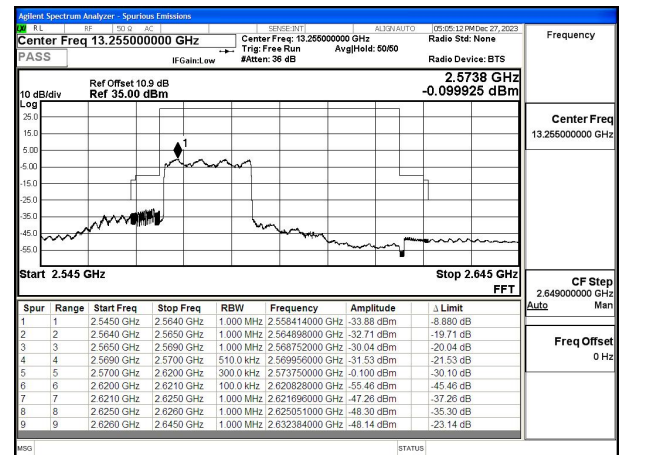


Fig. 14

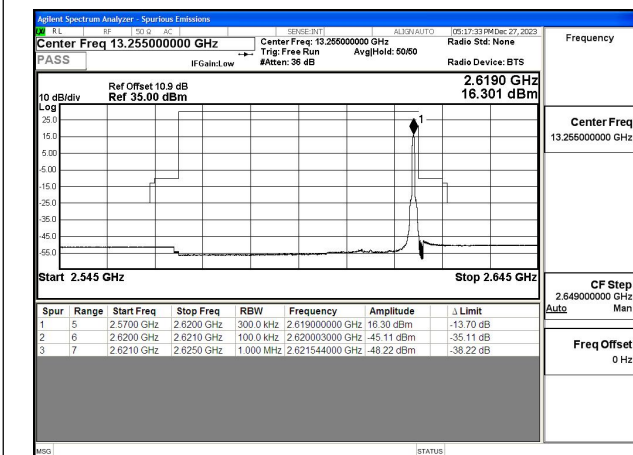


Fig. 15

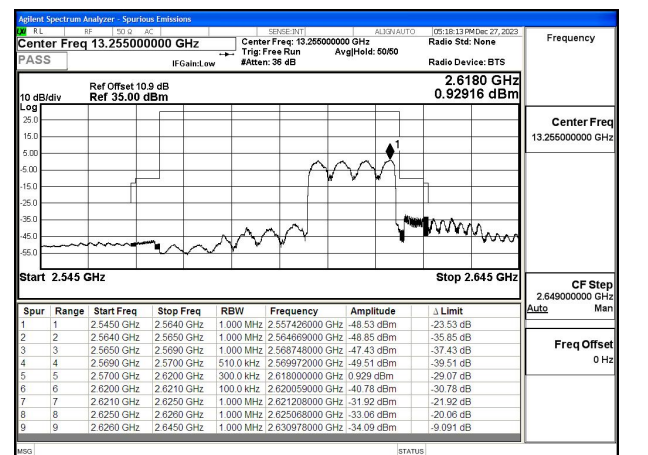


Fig. 16

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band 38 Low Channel QPSK			
		5M	10M	15M	20M
-10	NV	-0.001	0.000	0.002	-0.003
0	NV	0.002	0.002	0.002	-0.002
+10	NV	0.001	0.002	0.002	-0.003
+20	NV	-0.001	0.000	0.002	0.001
+30	NV	0.001	0.001	0.002	0.003
+40	NV	0.001	0.000	0.002	0.001
+55	NV	0.001	-0.001	0.002	0.002
+20	LV	-0.001	0.001	0.002	0.002
+20	HV	0.002	0.000	-0.002	0.002

Temperature(°C)	Voltage	Test Result (ppm) Band 38 High Channel QPSK			
		5M	10M	15M	20M
-10	NV	0.003	-0.002	0.001	-0.002
0	NV	0.002	0.002	-0.001	-0.003
+10	NV	-0.002	-0.002	0.002	0.002
+20	NV	0.002	0.002	0.001	0.001
+30	NV	-0.002	0.002	0.002	-0.003
+40	NV	0.001	0.001	-0.003	-0.002
+55	NV	0.001	-0.003	0.002	-0.002
+20	LV	0.001	0.001	-0.002	0.002
+20	HV	0.002	-0.001	0.001	0.002

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	2572.5	37775	5	1	0	22.73	21.03	0.127
QPSK	2572.5	37775	5	1	12	22.91	21.21	0.132
QPSK	2572.5	37775	5	1	24	22.80	21.10	0.129
QPSK	2572.5	37775	5	12	0	21.86	20.16	0.104
QPSK	2572.5	37775	5	12	7	21.82	20.12	0.103
QPSK	2572.5	37775	5	12	13	21.87	20.17	0.104
QPSK	2572.5	37775	5	25	0	21.84	20.14	0.103
QPSK	2595	38000	5	1	0	22.52	20.82	0.121
QPSK	2595	38000	5	1	12	22.53	20.83	0.121
QPSK	2595	38000	5	1	24	22.45	20.75	0.119
QPSK	2595	38000	5	12	0	21.50	19.80	0.095
QPSK	2595	38000	5	12	7	21.68	19.98	0.100
QPSK	2595	38000	5	12	13	21.50	19.80	0.095
QPSK	2595	38000	5	25	0	21.51	19.81	0.096
QPSK	2617.5	38225	5	1	0	22.32	20.62	0.115
QPSK	2617.5	38225	5	1	12	22.30	20.60	0.115
QPSK	2617.5	38225	5	1	24	22.34	20.64	0.116
QPSK	2617.5	38225	5	12	0	21.26	19.56	0.090
QPSK	2617.5	38225	5	12	7	21.44	19.74	0.094
QPSK	2617.5	38225	5	12	13	21.33	19.63	0.092
QPSK	2617.5	38225	5	25	0	21.35	19.65	0.092

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	2572.5	37775	5	1	0	22.34	20.64	0.116
16QAM	2572.5	37775	5	1	12	22.37	20.67	0.117
16QAM	2572.5	37775	5	1	24	22.22	20.52	0.113
16QAM	2572.5	37775	5	12	0	20.92	19.22	0.084
16QAM	2572.5	37775	5	12	7	21.02	19.32	0.086
16QAM	2572.5	37775	5	12	13	21.08	19.38	0.087
16QAM	2572.5	37775	5	25	0	20.95	19.25	0.084
16QAM	2595	38000	5	1	0	21.84	20.14	0.103
16QAM	2595	38000	5	1	12	21.68	19.98	0.100
16QAM	2595	38000	5	1	24	21.64	19.94	0.099
16QAM	2595	38000	5	12	0	20.53	18.83	0.076
16QAM	2595	38000	5	12	7	20.62	18.92	0.078
16QAM	2595	38000	5	12	13	20.56	18.86	0.077
16QAM	2595	38000	5	25	0	20.52	18.82	0.076
16QAM	2617.5	38225	5	1	0	21.73	20.03	0.101
16QAM	2617.5	38225	5	1	12	21.64	19.94	0.099
16QAM	2617.5	38225	5	1	24	21.89	20.19	0.104
16QAM	2617.5	38225	5	12	0	20.41	18.71	0.074
16QAM	2617.5	38225	5	12	7	20.44	18.74	0.075
16QAM	2617.5	38225	5	12	13	20.41	18.71	0.074
16QAM	2617.5	38225	5	25	0	20.32	18.62	0.073
64QAM	2572.5	37775	5	1	0	21.22	19.52	0.090
64QAM	2572.5	37775	5	1	12	21.24	19.54	0.090
64QAM	2572.5	37775	5	1	24	21.09	19.39	0.087
64QAM	2572.5	37775	5	12	0	19.88	18.18	0.066
64QAM	2572.5	37775	5	12	7	19.87	18.17	0.066
64QAM	2572.5	37775	5	12	13	19.89	18.19	0.066
64QAM	2572.5	37775	5	25	0	19.71	18.01	0.063
64QAM	2595	38000	5	1	0	20.69	18.99	0.079
64QAM	2595	38000	5	1	12	20.70	19.00	0.079
64QAM	2595	38000	5	1	24	20.66	18.96	0.079
64QAM	2595	38000	5	12	0	19.34	17.64	0.058
64QAM	2595	38000	5	12	7	19.64	17.94	0.062
64QAM	2595	38000	5	12	13	19.41	17.71	0.059
64QAM	2595	38000	5	25	0	19.48	17.78	0.060
64QAM	2617.5	38225	5	1	0	20.70	19.00	0.079
64QAM	2617.5	38225	5	1	12	20.80	19.10	0.081
64QAM	2617.5	38225	5	1	24	20.78	19.08	0.081
64QAM	2617.5	38225	5	12	0	19.29	17.59	0.057
64QAM	2617.5	38225	5	12	7	19.34	17.64	0.058
64QAM	2617.5	38225	5	12	13	19.44	17.74	0.059
64QAM	2617.5	38225	5	25	0	19.38	17.68	0.059

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	2575	37800	10	1	0	22.52	20.82	0.121
QPSK	2575	37800	10	1	25	22.68	20.98	0.125
QPSK	2575	37800	10	1	49	22.64	20.94	0.124
QPSK	2575	37800	10	25	0	21.79	20.09	0.102
QPSK	2575	37800	10	25	12	21.85	20.15	0.104
QPSK	2575	37800	10	25	25	21.80	20.10	0.102
QPSK	2575	37800	10	50	0	21.86	20.16	0.104
QPSK	2595	38000	10	1	0	22.55	20.85	0.122
QPSK	2595	38000	10	1	25	22.34	20.64	0.116
QPSK	2595	38000	10	1	49	22.30	20.60	0.115
QPSK	2595	38000	10	25	0	21.57	19.87	0.097
QPSK	2595	38000	10	25	12	21.51	19.81	0.096
QPSK	2595	38000	10	25	25	21.45	19.75	0.094
QPSK	2595	38000	10	50	0	21.49	19.79	0.095
QPSK	2615	38200	10	1	0	22.19	20.49	0.112
QPSK	2615	38200	10	1	25	22.18	20.48	0.112
QPSK	2615	38200	10	1	49	22.34	20.64	0.116
QPSK	2615	38200	10	25	0	21.30	19.60	0.091
QPSK	2615	38200	10	25	12	21.43	19.73	0.094
QPSK	2615	38200	10	25	25	21.38	19.68	0.093
QPSK	2615	38200	10	50	0	21.40	19.70	0.093

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	2575	37800	10	1	0	22.04	20.34	0.108
16QAM	2575	37800	10	1	25	21.98	20.28	0.107
16QAM	2575	37800	10	1	49	22.32	20.62	0.115
16QAM	2575	37800	10	25	0	20.83	19.13	0.082
16QAM	2575	37800	10	25	12	20.87	19.17	0.083
16QAM	2575	37800	10	25	25	20.89	19.19	0.083
16QAM	2575	37800	10	50	0	20.85	19.15	0.082
16QAM	2595	38000	10	1	0	21.86	20.16	0.104
16QAM	2595	38000	10	1	25	21.90	20.20	0.105
16QAM	2595	38000	10	1	49	21.77	20.07	0.102
16QAM	2595	38000	10	25	0	20.49	18.79	0.076
16QAM	2595	38000	10	25	12	20.57	18.87	0.077
16QAM	2595	38000	10	25	25	20.47	18.77	0.075
16QAM	2595	38000	10	50	0	20.52	18.82	0.076
16QAM	2615	38200	10	1	0	21.42	19.72	0.094
16QAM	2615	38200	10	1	25	21.52	19.82	0.096
16QAM	2615	38200	10	1	49	21.66	19.96	0.099
16QAM	2615	38200	10	25	0	20.23	18.53	0.071
16QAM	2615	38200	10	25	12	20.28	18.58	0.072
16QAM	2615	38200	10	25	25	20.34	18.64	0.073
16QAM	2615	38200	10	50	0	20.30	18.60	0.072
64QAM	2575	37800	10	1	0	21.28	19.58	0.091
64QAM	2575	37800	10	1	25	21.32	19.62	0.092
64QAM	2575	37800	10	1	49	21.30	19.60	0.091
64QAM	2575	37800	10	25	0	19.73	18.03	0.064
64QAM	2575	37800	10	25	12	19.75	18.05	0.064
64QAM	2575	37800	10	25	25	19.76	18.06	0.064
64QAM	2575	37800	10	50	0	19.92	18.22	0.066
64QAM	2595	38000	10	1	0	20.55	18.85	0.077
64QAM	2595	38000	10	1	25	20.63	18.93	0.078
64QAM	2595	38000	10	1	49	20.40	18.70	0.074
64QAM	2595	38000	10	25	0	19.52	17.82	0.061
64QAM	2595	38000	10	25	12	19.40	17.70	0.059
64QAM	2595	38000	10	25	25	19.46	17.76	0.060
64QAM	2595	38000	10	50	0	19.47	17.77	0.060
64QAM	2615	38200	10	1	0	19.92	18.22	0.066
64QAM	2615	38200	10	1	25	19.93	18.23	0.067
64QAM	2615	38200	10	1	49	19.97	18.27	0.067
64QAM	2615	38200	10	25	0	19.25	17.55	0.057
64QAM	2615	38200	10	25	12	19.35	17.65	0.058
64QAM	2615	38200	10	25	25	19.34	17.64	0.058
64QAM	2615	38200	10	50	0	19.29	17.59	0.057

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	2577.5	37825	15	1	0	22.41	20.71	0.118
QPSK	2577.5	37825	15	1	37	22.40	20.70	0.117
QPSK	2577.5	37825	15	1	74	22.48	20.78	0.120
QPSK	2577.5	37825	15	36	0	21.67	19.97	0.099
QPSK	2577.5	37825	15	36	29	21.67	19.97	0.099
QPSK	2577.5	37825	15	36	30	21.58	19.88	0.097
QPSK	2577.5	37825	15	75	0	21.66	19.96	0.099
QPSK	2595	38000	15	1	0	22.31	20.61	0.115
QPSK	2595	38000	15	1	37	22.10	20.40	0.110
QPSK	2595	38000	15	1	74	22.00	20.30	0.107
QPSK	2595	38000	15	36	0	21.40	19.70	0.093
QPSK	2595	38000	15	36	29	21.33	19.63	0.092
QPSK	2595	38000	15	36	30	21.33	19.63	0.092
QPSK	2595	38000	15	75	0	21.32	19.62	0.092
QPSK	2612.5	38175	15	1	0	22.18	20.48	0.112
QPSK	2612.5	38175	15	1	37	21.99	20.29	0.107
QPSK	2612.5	38175	15	1	74	22.05	20.35	0.108
QPSK	2612.5	38175	15	36	0	21.16	19.46	0.088
QPSK	2612.5	38175	15	36	29	21.20	19.50	0.089
QPSK	2612.5	38175	15	36	30	21.26	19.56	0.090
QPSK	2612.5	38175	15	75	0	21.26	19.56	0.090

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	2577.5	37825	15	1	0	21.81	20.11	0.103
16QAM	2577.5	37825	15	1	37	21.83	20.13	0.103
16QAM	2577.5	37825	15	1	74	21.71	20.01	0.100
16QAM	2577.5	37825	15	36	0	20.68	18.98	0.079
16QAM	2577.5	37825	15	36	29	20.71	19.01	0.080
16QAM	2577.5	37825	15	36	30	20.78	19.08	0.081
16QAM	2577.5	37825	15	75	0	20.63	18.93	0.078
16QAM	2595	38000	15	1	0	21.76	20.06	0.101
16QAM	2595	38000	15	1	37	21.79	20.09	0.102
16QAM	2595	38000	15	1	74	21.51	19.81	0.096
16QAM	2595	38000	15	36	0	20.41	18.71	0.074
16QAM	2595	38000	15	36	29	20.35	18.65	0.073
16QAM	2595	38000	15	36	30	20.25	18.55	0.072
16QAM	2595	38000	15	75	0	20.37	18.67	0.074
16QAM	2612.5	38175	15	1	0	21.34	19.64	0.092
16QAM	2612.5	38175	15	1	37	21.39	19.69	0.093
16QAM	2612.5	38175	15	1	74	21.33	19.63	0.092
16QAM	2612.5	38175	15	36	0	20.16	18.46	0.070
16QAM	2612.5	38175	15	36	29	20.17	18.47	0.070
16QAM	2612.5	38175	15	36	30	20.27	18.57	0.072
16QAM	2612.5	38175	15	75	0	20.27	18.57	0.072
64QAM	2577.5	37825	15	1	0	21.04	19.34	0.086
64QAM	2577.5	37825	15	1	37	21.05	19.35	0.086
64QAM	2577.5	37825	15	1	74	21.10	19.40	0.087
64QAM	2577.5	37825	15	36	0	19.63	17.93	0.062
64QAM	2577.5	37825	15	36	29	19.60	17.90	0.062
64QAM	2577.5	37825	15	36	30	19.66	17.96	0.063
64QAM	2577.5	37825	15	75	0	19.70	18.00	0.063
64QAM	2595	38000	15	1	0	20.51	18.81	0.076
64QAM	2595	38000	15	1	37	20.40	18.70	0.074
64QAM	2595	38000	15	1	74	20.21	18.51	0.071
64QAM	2595	38000	15	36	0	19.46	17.76	0.060
64QAM	2595	38000	15	36	29	19.37	17.67	0.058
64QAM	2595	38000	15	36	30	19.33	17.63	0.058
64QAM	2595	38000	15	75	0	19.39	17.69	0.059
64QAM	2612.5	38175	15	1	0	20.29	18.59	0.072
64QAM	2612.5	38175	15	1	37	20.35	18.65	0.073
64QAM	2612.5	38175	15	1	74	20.27	18.57	0.072
64QAM	2612.5	38175	15	36	0	19.25	17.55	0.057
64QAM	2612.5	38175	15	36	29	19.29	17.59	0.057
64QAM	2612.5	38175	15	36	30	19.25	17.55	0.057
64QAM	2612.5	38175	15	75	0	19.12	17.42	0.055

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	2580	37850	20	1	0	22.40	20.70	0.117
QPSK	2580	37850	20	1	49	22.50	20.80	0.120
QPSK	2580	37850	20	1	99	22.39	20.69	0.117
QPSK	2580	37850	20	50	0	21.58	19.88	0.097
QPSK	2580	37850	20	50	24	21.66	19.96	0.099
QPSK	2580	37850	20	50	50	21.70	20.00	0.100
QPSK	2580	37850	20	100	0	21.66	19.96	0.099
QPSK	2595	38000	20	1	0	22.41	20.71	0.118
QPSK	2595	38000	20	1	49	22.27	20.57	0.114
QPSK	2595	38000	20	1	99	22.22	20.52	0.113
QPSK	2595	38000	20	50	0	21.40	19.70	0.093
QPSK	2595	38000	20	50	24	21.34	19.64	0.092
QPSK	2595	38000	20	50	50	21.25	19.55	0.090
QPSK	2595	38000	20	100	0	21.42	19.72	0.094
QPSK	2610	38150	20	1	0	22.05	20.35	0.108
QPSK	2610	38150	20	1	49	21.92	20.22	0.105
QPSK	2610	38150	20	1	99	22.03	20.33	0.108
QPSK	2610	38150	20	50	0	21.16	19.46	0.088
QPSK	2610	38150	20	50	24	21.18	19.48	0.089
QPSK	2610	38150	20	50	50	21.19	19.49	0.089
QPSK	2610	38150	20	100	0	21.23	19.53	0.090

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	2580	37850	20	1	0	21.75	20.05	0.101
16QAM	2580	37850	20	1	49	21.83	20.13	0.103
16QAM	2580	37850	20	1	99	21.70	20.00	0.100
16QAM	2580	37850	20	50	0	20.57	18.87	0.077
16QAM	2580	37850	20	50	24	20.64	18.94	0.078
16QAM	2580	37850	20	50	50	20.60	18.90	0.078
16QAM	2580	37850	20	100	0	20.66	18.96	0.079
16QAM	2595	38000	20	1	0	21.92	20.22	0.105
16QAM	2595	38000	20	1	49	21.64	19.94	0.099
16QAM	2595	38000	20	1	99	21.47	19.77	0.095
16QAM	2595	38000	20	50	0	20.41	18.71	0.074
16QAM	2595	38000	20	50	24	20.34	18.64	0.073
16QAM	2595	38000	20	50	50	20.32	18.62	0.073
16QAM	2595	38000	20	100	0	20.38	18.68	0.074
16QAM	2610	38150	20	1	0	21.03	19.33	0.086
16QAM	2610	38150	20	1	49	20.95	19.25	0.084
16QAM	2610	38150	20	1	99	21.07	19.37	0.086
16QAM	2610	38150	20	50	0	20.27	18.57	0.072
16QAM	2610	38150	20	50	24	20.25	18.55	0.072
16QAM	2610	38150	20	50	50	20.20	18.50	0.071
16QAM	2610	38150	20	100	0	20.24	18.54	0.071
64QAM	2580	37850	20	1	0	20.48	18.78	0.076
64QAM	2580	37850	20	1	49	20.49	18.79	0.076
64QAM	2580	37850	20	1	99	20.47	18.77	0.075
64QAM	2580	37850	20	50	0	19.64	17.94	0.062
64QAM	2580	37850	20	50	24	19.69	17.99	0.063
64QAM	2580	37850	20	50	50	19.64	17.94	0.062
64QAM	2580	37850	20	100	0	19.70	18.00	0.063
64QAM	2595	38000	20	1	0	20.39	18.69	0.074
64QAM	2595	38000	20	1	49	20.23	18.53	0.071
64QAM	2595	38000	20	1	99	20.03	18.33	0.068
64QAM	2595	38000	20	50	0	19.48	17.78	0.060
64QAM	2595	38000	20	50	24	19.38	17.68	0.059
64QAM	2595	38000	20	50	50	19.28	17.58	0.057
64QAM	2595	38000	20	100	0	19.30	17.60	0.058
64QAM	2610	38150	20	1	0	20.53	18.83	0.076
64QAM	2610	38150	20	1	49	20.29	18.59	0.072
64QAM	2610	38150	20	1	99	20.37	18.67	0.074
64QAM	2610	38150	20	50	0	19.31	17.61	0.058
64QAM	2610	38150	20	50	24	19.33	17.63	0.058
64QAM	2610	38150	20	50	50	19.23	17.53	0.057
64QAM	2610	38150	20	100	0	19.31	17.61	0.058