

Fig.61

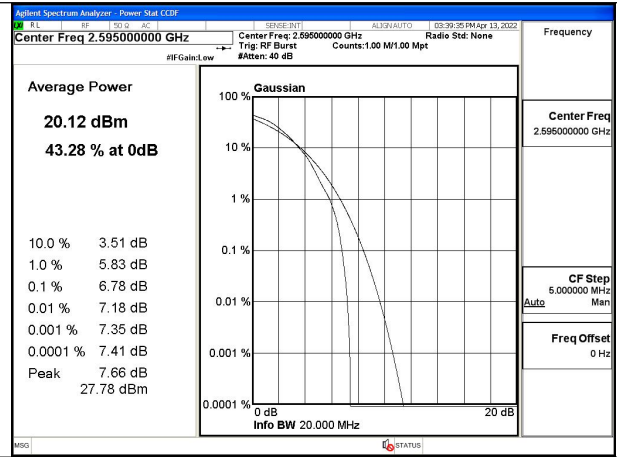


Fig.62

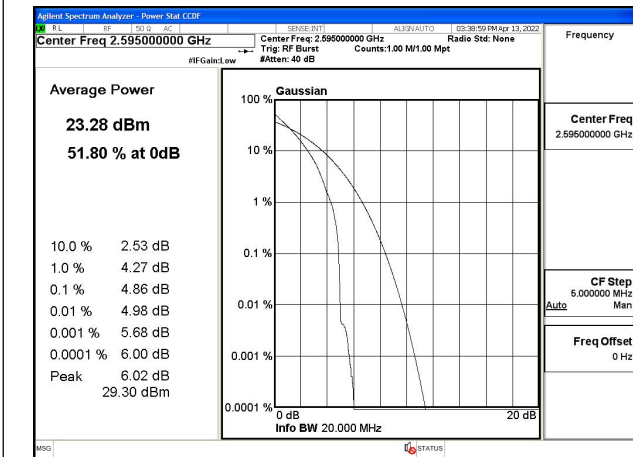


Fig.63

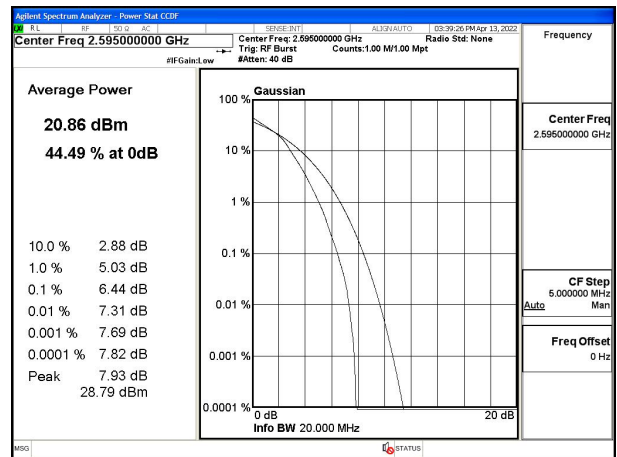


Fig.64

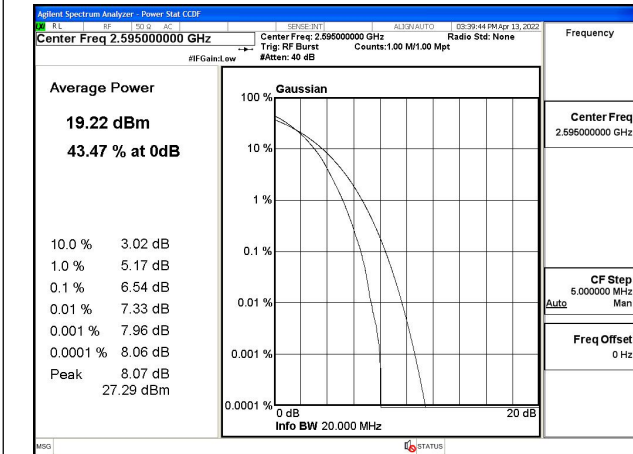


Fig.65

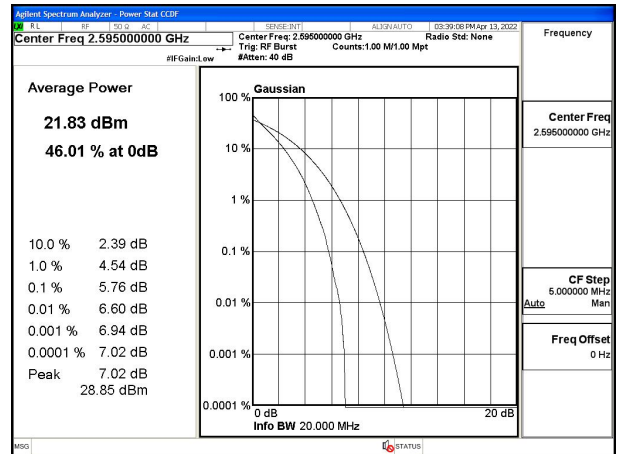


Fig.66

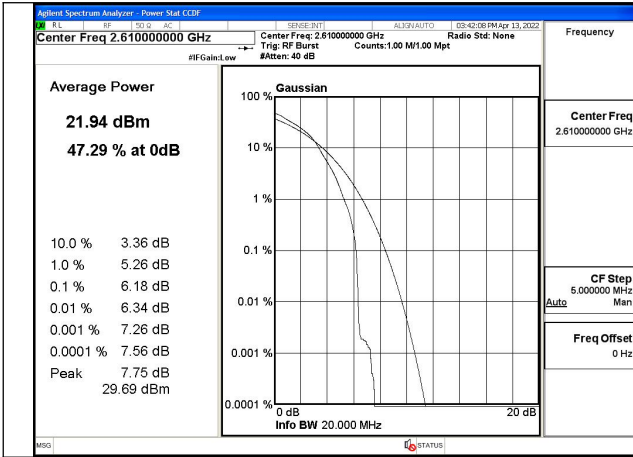


Fig.67

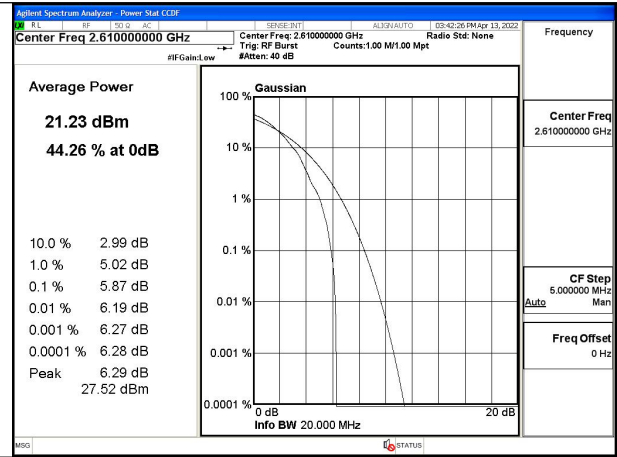


Fig.68

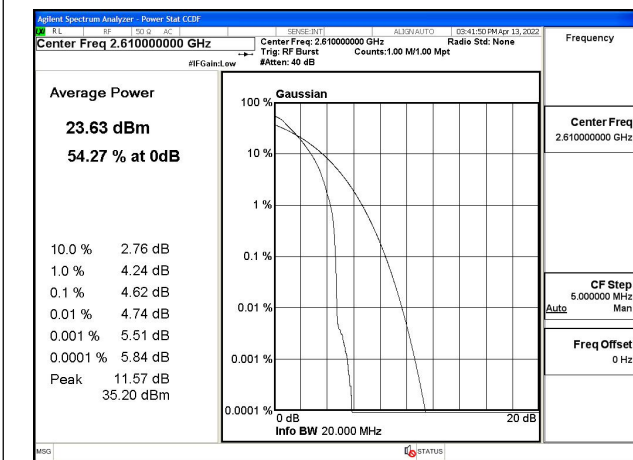


Fig.69

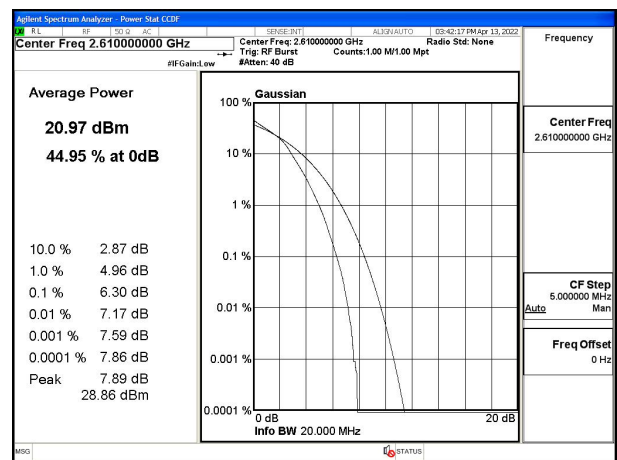


Fig.70

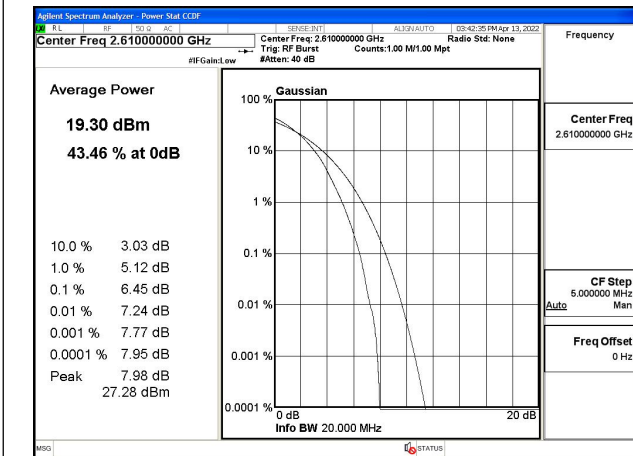


Fig.71

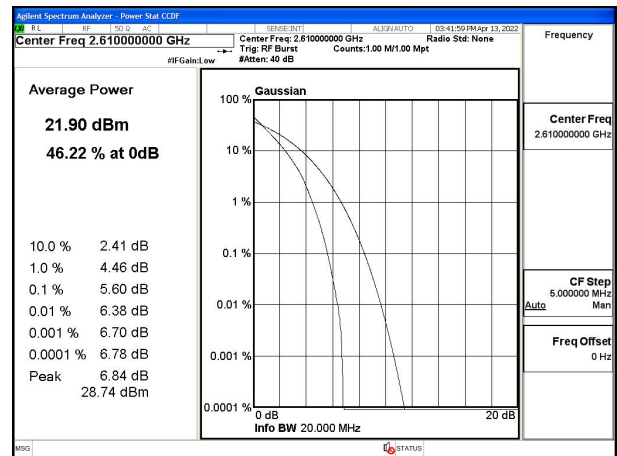


Fig.72

**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

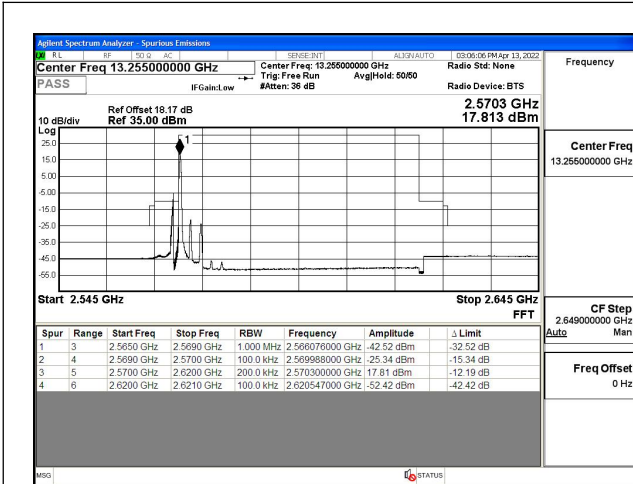


Fig.1

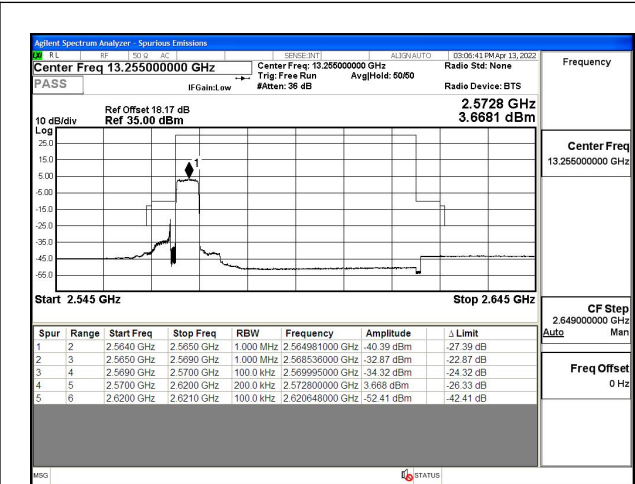


Fig.2

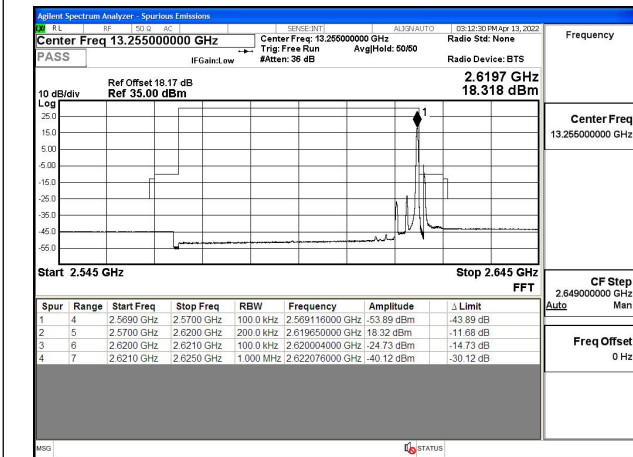


Fig.3

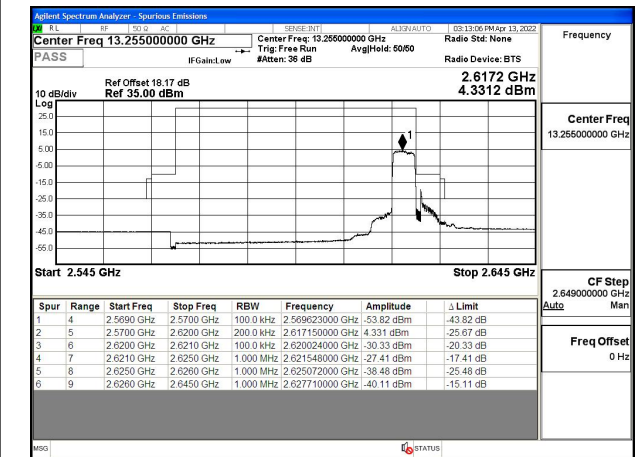


Fig.4

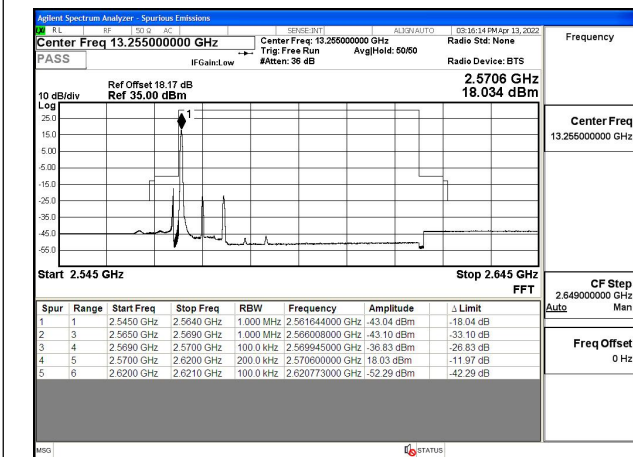


Fig.5

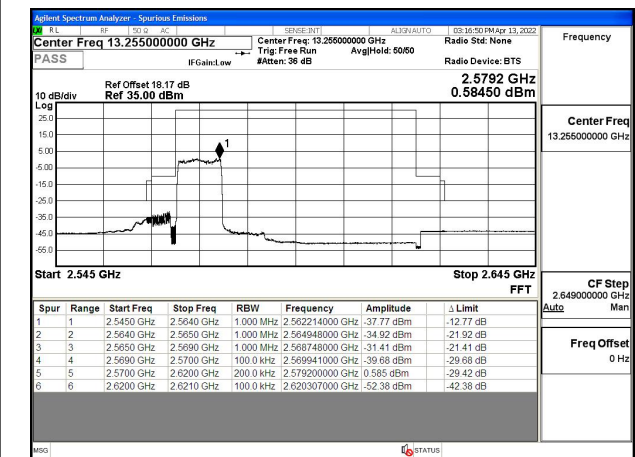


Fig.6

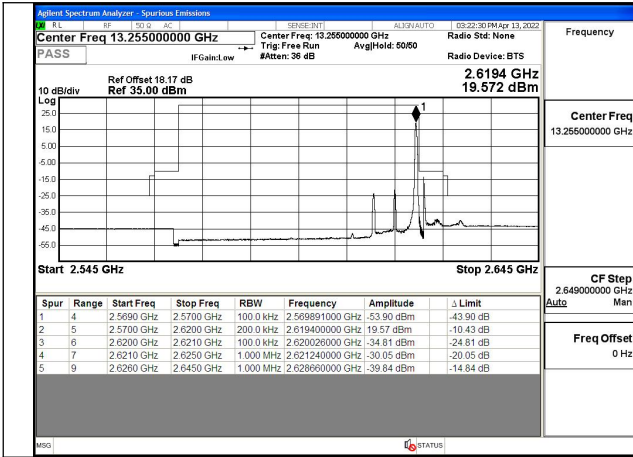


Fig.7

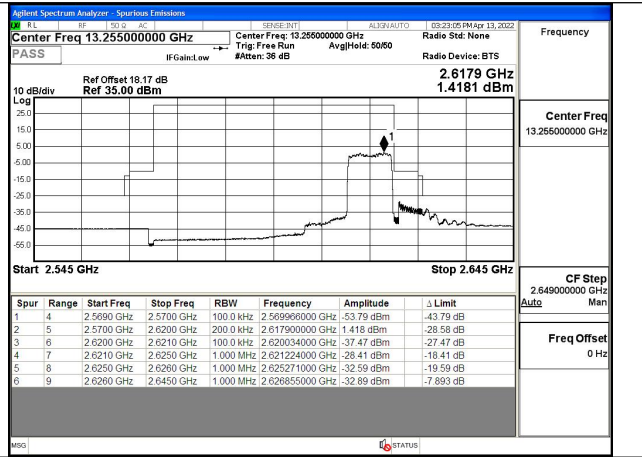


Fig.8

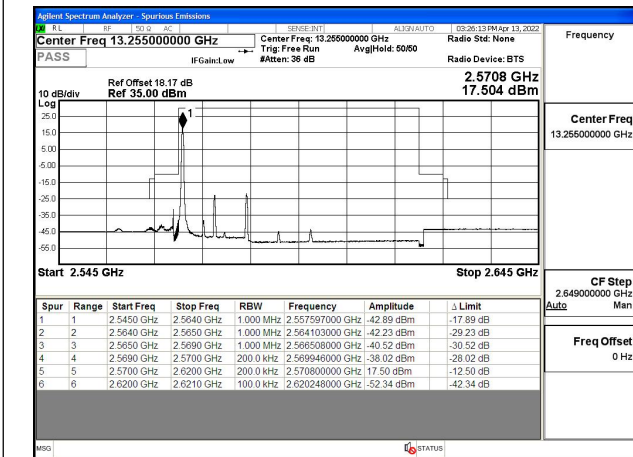


Fig.9

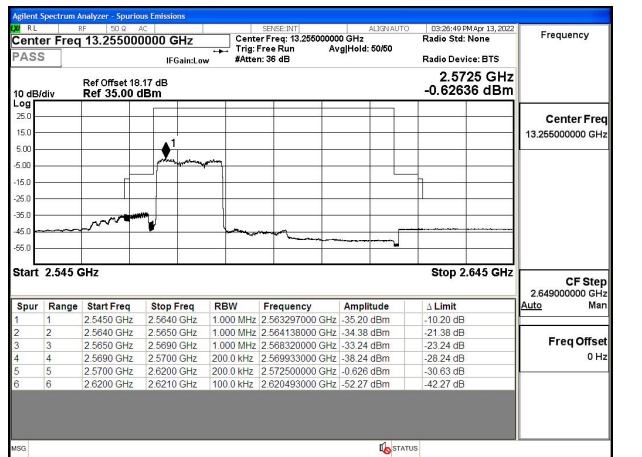


Fig.10

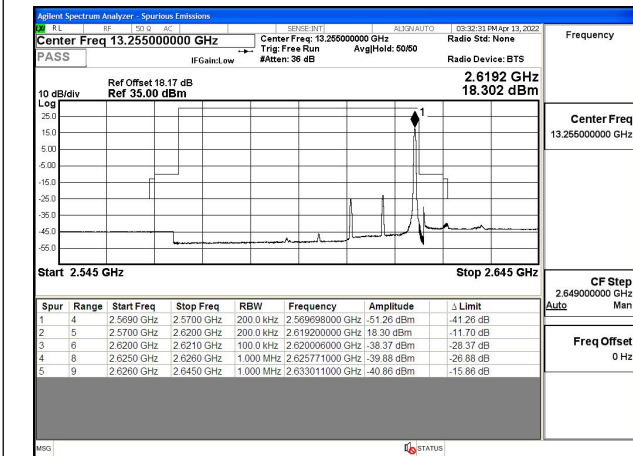


Fig.11

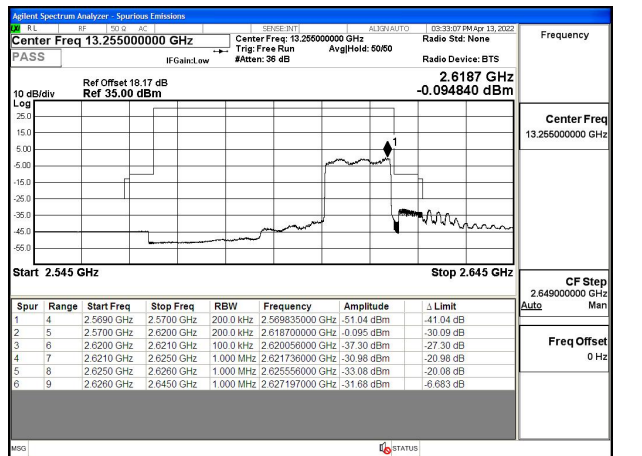


Fig.12

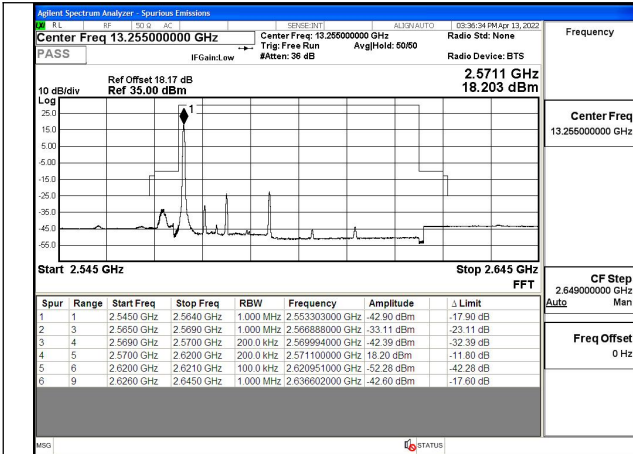


Fig.13

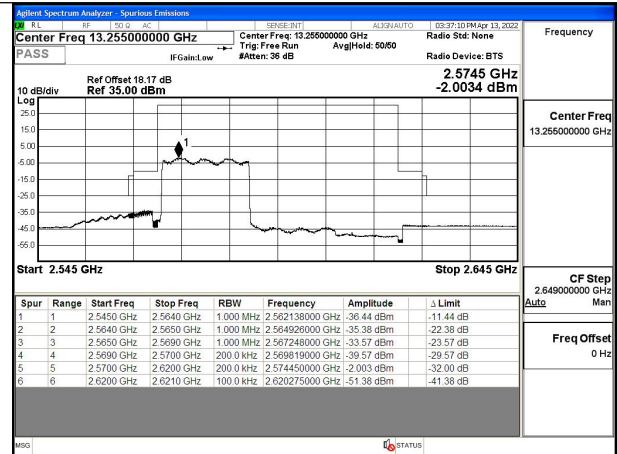


Fig.14

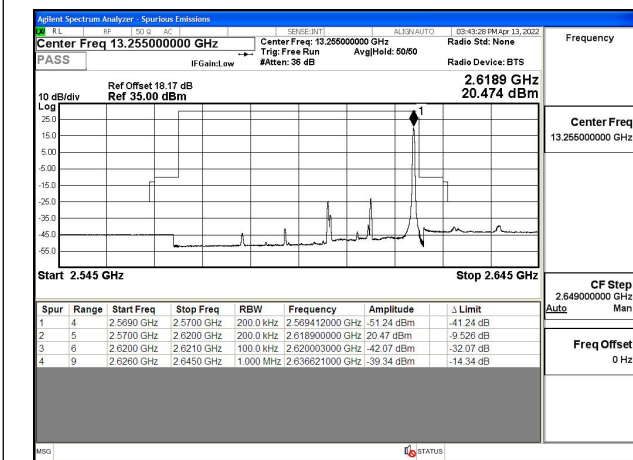


Fig.15

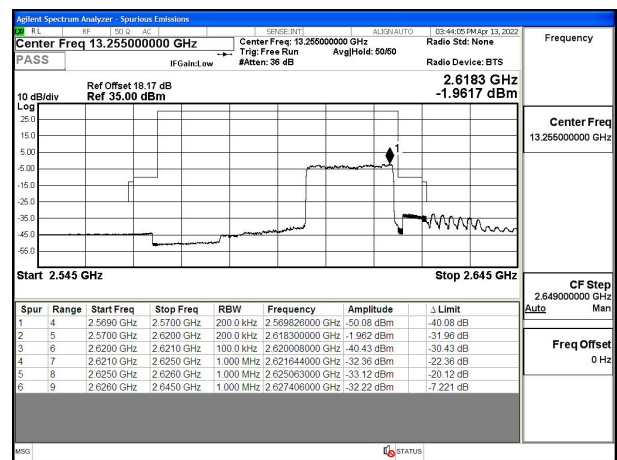


Fig.16

## 7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band 38 Low Channel QPSK			
		5M	10M	15M	20M
-20	NV	-0.008	0.007	-0.014	-0.010
-10	NV	-0.010	-0.016	0.010	-0.015
0	NV	0.012	0.018	-0.021	-0.020
+10	NV	0.007	0.011	-0.008	0.006
+20	NV	-0.018	0.010	0.006	-0.014
+30	NV	0.004	-0.005	-0.011	0.013
+40	NV	0.007	0.006	-0.006	0.004
+50	NV	0.019	0.008	-0.007	-0.002
+55	NV	-0.011	-0.015	0.010	-0.007
+20	LV	-0.011	-0.016	0.014	-0.005
+20	HV	-0.015	-0.016	0.005	0.015

Temperature(°C)	Voltage	Test Result (ppm) Band 38 High Channel QPSK			
		5M	10M	15M	20M
-20	NV	0.017	-0.009	0.012	-0.011
-10	NV	-0.007	0.016	-0.007	0.005
0	NV	0.016	-0.009	0.016	0.013
+10	NV	-0.007	-0.003	-0.011	-0.018
+20	NV	-0.020	-0.020	-0.008	-0.017
+30	NV	-0.019	-0.019	-0.016	-0.016
+40	NV	-0.012	-0.017	-0.015	-0.008
+50	NV	-0.020	-0.020	-0.005	-0.018
+55	NV	-0.011	-0.009	-0.012	-0.016
+20	LV	-0.020	-0.019	-0.021	-0.007
+20	HV	-0.020	-0.014	-0.020	0.015



## 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	23.31	22.01	0.159
QPSK	2572.5	37775	5	1	12	23.18	21.88	0.154
QPSK	2572.5	37775	5	1	24	23.15	21.85	0.153
QPSK	2572.5	37775	5	12	0	22.29	20.99	0.126
QPSK	2572.5	37775	5	12	7	22.27	20.97	0.125
QPSK	2572.5	37775	5	12	13	22.32	21.02	0.126
QPSK	2572.5	37775	5	25	0	22.24	20.94	0.124
QPSK	2595	38000	5	1	0	23.58	22.28	0.169
QPSK	2595	38000	5	1	12	23.43	22.13	0.163
QPSK	2595	38000	5	1	24	23.40	22.10	0.162
QPSK	2595	38000	5	12	0	22.12	20.82	0.121
QPSK	2595	38000	5	12	7	22.23	20.93	0.124
QPSK	2595	38000	5	12	13	22.07	20.77	0.119
QPSK	2595	38000	5	25	0	22.12	20.82	0.121
QPSK	2617.5	38225	5	1	0	23.07	21.77	0.150
QPSK	2617.5	38225	5	1	12	23.38	22.08	0.161
QPSK	2617.5	38225	5	1	24	23.51	22.21	0.166
QPSK	2617.5	38225	5	12	0	22.21	20.91	0.123
QPSK	2617.5	38225	5	12	7	22.22	20.92	0.124
QPSK	2617.5	38225	5	12	13	22.36	21.06	0.128
QPSK	2617.5	38225	5	25	0	22.36	21.06	0.128

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	22.03	20.73	0.118
16QAM	2572.5	37775	5	1	12	21.93	20.63	0.116
16QAM	2572.5	37775	5	1	24	21.90	20.60	0.115
16QAM	2572.5	37775	5	12	0	21.26	19.96	0.099
16QAM	2572.5	37775	5	12	7	21.35	20.05	0.101
16QAM	2572.5	37775	5	12	13	21.40	20.10	0.102
16QAM	2572.5	37775	5	25	0	21.49	20.19	0.104
16QAM	2595	38000	5	1	0	22.08	20.78	0.120
16QAM	2595	38000	5	1	12	22.03	20.73	0.118
16QAM	2595	38000	5	1	24	22.10	20.80	0.120
16QAM	2595	38000	5	12	0	21.47	20.17	0.104
16QAM	2595	38000	5	12	7	21.32	20.02	0.100
16QAM	2595	38000	5	12	13	21.26	19.96	0.099
16QAM	2595	38000	5	25	0	21.09	19.79	0.095
16QAM	2617.5	38225	5	1	0	21.73	20.43	0.110
16QAM	2617.5	38225	5	1	12	22.05	20.75	0.119
16QAM	2617.5	38225	5	1	24	22.26	20.96	0.125
16QAM	2617.5	38225	5	12	0	21.28	19.98	0.100
16QAM	2617.5	38225	5	12	7	21.24	19.94	0.099
16QAM	2617.5	38225	5	12	13	21.45	20.15	0.104
16QAM	2617.5	38225	5	25	0	21.33	20.03	0.101
64QAM	2572.5	37775	5	1	0	20.80	19.50	0.089
64QAM	2572.5	37775	5	1	12	21.08	19.78	0.095
64QAM	2572.5	37775	5	1	24	20.26	18.96	0.079
64QAM	2572.5	37775	5	12	0	19.85	18.55	0.072
64QAM	2572.5	37775	5	12	7	19.78	18.48	0.070
64QAM	2572.5	37775	5	12	13	19.81	18.51	0.071
64QAM	2572.5	37775	5	25	0	19.91	18.61	0.073
64QAM	2595	38000	5	1	0	20.56	19.26	0.084
64QAM	2595	38000	5	1	12	20.35	19.05	0.080
64QAM	2595	38000	5	1	24	20.45	19.15	0.082
64QAM	2595	38000	5	12	0	19.91	18.61	0.073
64QAM	2595	38000	5	12	7	19.87	18.57	0.072
64QAM	2595	38000	5	12	13	19.87	18.57	0.072
64QAM	2595	38000	5	25	0	19.76	18.46	0.070
64QAM	2617.5	38225	5	1	0	20.55	19.25	0.084
64QAM	2617.5	38225	5	1	12	20.84	19.54	0.090
64QAM	2617.5	38225	5	1	24	20.54	19.24	0.084
64QAM	2617.5	38225	5	12	0	19.83	18.53	0.071
64QAM	2617.5	38225	5	12	7	19.80	18.50	0.071
64QAM	2617.5	38225	5	12	13	20.01	18.71	0.074
64QAM	2617.5	38225	5	25	0	20.01	18.71	0.074

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	23.42	22.12	0.163
QPSK	2575	37800	10	1	25	23.34	22.04	0.160
QPSK	2575	37800	10	1	49	23.30	22.00	0.158
QPSK	2575	37800	10	25	0	22.28	20.98	0.125
QPSK	2575	37800	10	25	12	22.24	20.94	0.124
QPSK	2575	37800	10	25	25	22.24	20.94	0.124
QPSK	2575	37800	10	50	0	21.79	20.49	0.112
QPSK	2595	38000	10	1	0	23.52	22.22	0.167
QPSK	2595	38000	10	1	25	23.41	22.11	0.163
QPSK	2595	38000	10	1	49	23.26	21.96	0.157
QPSK	2595	38000	10	25	0	22.26	20.96	0.125
QPSK	2595	38000	10	25	12	22.12	20.82	0.121
QPSK	2595	38000	10	25	25	22.09	20.79	0.120
QPSK	2595	38000	10	50	0	21.83	20.53	0.113
QPSK	2615	38200	10	1	0	23.31	22.01	0.159
QPSK	2615	38200	10	1	25	23.33	22.03	0.160
QPSK	2615	38200	10	1	49	23.81	22.51	0.178
QPSK	2615	38200	10	25	0	21.95	20.65	0.116
QPSK	2615	38200	10	25	12	22.05	20.75	0.119
QPSK	2615	38200	10	25	25	22.27	20.97	0.125
QPSK	2615	38200	10	50	0	21.71	20.41	0.110

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	21.99	20.69	0.117
16QAM	2575	37800	10	1	25	21.83	20.53	0.113
16QAM	2575	37800	10	1	49	21.69	20.39	0.109
16QAM	2575	37800	10	25	0	21.31	20.01	0.100
16QAM	2575	37800	10	25	12	21.27	19.97	0.099
16QAM	2575	37800	10	25	25	21.26	19.96	0.099
16QAM	2575	37800	10	50	0	20.91	19.61	0.091
16QAM	2595	38000	10	1	0	22.24	20.94	0.124
16QAM	2595	38000	10	1	25	22.06	20.76	0.119
16QAM	2595	38000	10	1	49	21.99	20.69	0.117
16QAM	2595	38000	10	25	0	21.45	20.15	0.104
16QAM	2595	38000	10	25	12	21.25	19.95	0.099
16QAM	2595	38000	10	25	25	21.28	19.98	0.100
16QAM	2595	38000	10	50	0	20.74	19.44	0.088
16QAM	2615	38200	10	1	0	21.62	20.32	0.108
16QAM	2615	38200	10	1	25	21.58	20.28	0.107
16QAM	2615	38200	10	1	49	22.14	20.84	0.121
16QAM	2615	38200	10	25	0	21.03	19.73	0.094
16QAM	2615	38200	10	25	12	21.26	19.96	0.099
16QAM	2615	38200	10	25	25	21.37	20.07	0.102
16QAM	2615	38200	10	50	0	20.72	19.42	0.087
64QAM	2575	37800	10	1	0	20.81	19.51	0.089
64QAM	2575	37800	10	1	25	20.77	19.47	0.089
64QAM	2575	37800	10	1	49	20.81	19.51	0.089
64QAM	2575	37800	10	25	0	20.03	18.73	0.075
64QAM	2575	37800	10	25	12	19.85	18.55	0.072
64QAM	2575	37800	10	25	25	19.99	18.69	0.074
64QAM	2575	37800	10	50	0	19.34	18.04	0.064
64QAM	2595	38000	10	1	0	20.98	19.68	0.093
64QAM	2595	38000	10	1	25	20.39	19.09	0.081
64QAM	2595	38000	10	1	49	20.25	18.95	0.079
64QAM	2595	38000	10	25	0	19.85	18.55	0.072
64QAM	2595	38000	10	25	12	19.68	18.38	0.069
64QAM	2595	38000	10	25	25	19.65	18.35	0.068
64QAM	2595	38000	10	50	0	19.28	17.98	0.063
64QAM	2615	38200	10	1	0	20.36	19.06	0.081
64QAM	2615	38200	10	1	25	20.51	19.21	0.083
64QAM	2615	38200	10	1	49	21.05	19.75	0.094
64QAM	2615	38200	10	25	0	19.67	18.37	0.069
64QAM	2615	38200	10	25	12	19.82	18.52	0.071
64QAM	2615	38200	10	25	25	20.02	18.72	0.074
64QAM	2615	38200	10	50	0	19.20	17.90	0.062

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	23.82	22.52	0.179
QPSK	2577.5	37825	15	1	37	23.77	22.47	0.177
QPSK	2577.5	37825	15	1	74	23.73	22.43	0.175
QPSK	2577.5	37825	15	36	0	22.24	20.94	0.124
QPSK	2577.5	37825	15	36	29	22.11	20.81	0.121
QPSK	2577.5	37825	15	36	30	22.10	20.80	0.120
QPSK	2577.5	37825	15	75	0	21.94	20.64	0.116
QPSK	2595	38000	15	1	0	23.63	22.33	0.171
QPSK	2595	38000	15	1	37	23.46	22.16	0.164
QPSK	2595	38000	15	1	74	23.28	21.98	0.158
QPSK	2595	38000	15	36	0	22.32	21.02	0.126
QPSK	2595	38000	15	36	29	22.10	20.80	0.120
QPSK	2595	38000	15	36	30	22.10	20.80	0.120
QPSK	2595	38000	15	75	0	21.66	20.36	0.109
QPSK	2612.5	38175	15	1	0	23.31	22.01	0.159
QPSK	2612.5	38175	15	1	37	23.28	21.98	0.158
QPSK	2612.5	38175	15	1	74	23.80	22.50	0.178
QPSK	2612.5	38175	15	36	0	22.03	20.73	0.118
QPSK	2612.5	38175	15	36	29	22.05	20.75	0.119
QPSK	2612.5	38175	15	36	30	22.06	20.76	0.119
QPSK	2612.5	38175	15	75	0	21.69	20.39	0.109

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	21.90	20.60	0.115
16QAM	2577.5	37825	15	1	37	21.94	20.64	0.116
16QAM	2577.5	37825	15	1	74	21.76	20.46	0.111
16QAM	2577.5	37825	15	36	0	21.19	19.89	0.097
16QAM	2577.5	37825	15	36	29	21.15	19.85	0.097
16QAM	2577.5	37825	15	36	30	21.14	19.84	0.096
16QAM	2577.5	37825	15	75	0	20.98	19.68	0.093
16QAM	2595	38000	15	1	0	22.06	20.76	0.119
16QAM	2595	38000	15	1	37	22.07	20.77	0.119
16QAM	2595	38000	15	1	74	22.01	20.71	0.118
16QAM	2595	38000	15	36	0	21.29	19.99	0.100
16QAM	2595	38000	15	36	29	21.10	19.80	0.095
16QAM	2595	38000	15	36	30	21.03	19.73	0.094
16QAM	2595	38000	15	75	0	20.73	19.43	0.088
16QAM	2612.5	38175	15	1	0	21.72	20.42	0.110
16QAM	2612.5	38175	15	1	37	21.64	20.34	0.108
16QAM	2612.5	38175	15	1	74	22.17	20.87	0.122
16QAM	2612.5	38175	15	36	0	21.07	19.77	0.095
16QAM	2612.5	38175	15	36	29	21.03	19.73	0.094
16QAM	2612.5	38175	15	36	30	21.01	19.71	0.094
16QAM	2612.5	38175	15	75	0	20.73	19.43	0.088
64QAM	2577.5	37825	15	1	0	20.78	19.48	0.089
64QAM	2577.5	37825	15	1	37	20.91	19.61	0.091
64QAM	2577.5	37825	15	1	74	20.78	19.48	0.089
64QAM	2577.5	37825	15	36	0	19.82	18.52	0.071
64QAM	2577.5	37825	15	36	29	19.77	18.47	0.070
64QAM	2577.5	37825	15	36	30	19.77	18.47	0.070
64QAM	2577.5	37825	15	75	0	19.43	18.13	0.065
64QAM	2595	38000	15	1	0	20.95	19.65	0.092
64QAM	2595	38000	15	1	37	20.11	18.81	0.076
64QAM	2595	38000	15	1	74	21.02	19.72	0.094
64QAM	2595	38000	15	36	0	19.89	18.59	0.072
64QAM	2595	38000	15	36	29	19.83	18.53	0.071
64QAM	2595	38000	15	36	30	19.84	18.54	0.071
64QAM	2595	38000	15	75	0	19.31	18.01	0.063
64QAM	2612.5	38175	15	1	0	20.41	19.11	0.081
64QAM	2612.5	38175	15	1	37	20.35	19.05	0.080
64QAM	2612.5	38175	15	1	74	20.95	19.65	0.092
64QAM	2612.5	38175	15	36	0	19.65	18.35	0.068
64QAM	2612.5	38175	15	36	29	19.62	18.32	0.068
64QAM	2612.5	38175	15	36	30	19.64	18.34	0.068
64QAM	2612.5	38175	15	75	0	19.11	17.81	0.060

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	23.83	22.53	0.179
QPSK	2580	37850	20	1	49	23.84	22.54	0.179
QPSK	2580	37850	20	1	99	23.68	22.38	0.173
QPSK	2580	37850	20	50	0	22.17	20.87	0.122
QPSK	2580	37850	20	50	24	22.16	20.86	0.122
QPSK	2580	37850	20	50	50	22.26	20.96	0.125
QPSK	2580	37850	20	100	0	21.74	20.44	0.111
QPSK	2595	38000	20	1	0	23.57	22.27	0.169
QPSK	2595	38000	20	1	49	23.44	22.14	0.164
QPSK	2595	38000	20	1	99	23.30	22.00	0.158
QPSK	2595	38000	20	50	0	22.32	21.02	0.126
QPSK	2595	38000	20	50	24	22.20	20.90	0.123
QPSK	2595	38000	20	50	50	22.13	20.83	0.121
QPSK	2595	38000	20	100	0	21.79	20.49	0.112
QPSK	2610	38150	20	1	0	23.39	22.09	0.162
QPSK	2610	38150	20	1	49	23.24	21.94	0.156
QPSK	2610	38150	20	1	99	23.87	22.57	0.181
QPSK	2610	38150	20	50	0	22.14	20.84	0.121
QPSK	2610	38150	20	50	24	21.87	20.57	0.114
QPSK	2610	38150	20	50	50	22.13	20.83	0.121
QPSK	2610	38150	20	100	0	21.62	20.32	0.108

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	21.92	20.62	0.115
16QAM	2580	37850	20	1	49	21.85	20.55	0.114
16QAM	2580	37850	20	1	99	21.80	20.50	0.112
16QAM	2580	37850	20	50	0	21.41	20.11	0.103
16QAM	2580	37850	20	50	24	21.26	19.96	0.099
16QAM	2580	37850	20	50	50	21.12	19.82	0.096
16QAM	2580	37850	20	100	0	20.94	19.64	0.092
16QAM	2595	38000	20	1	0	22.17	20.87	0.122
16QAM	2595	38000	20	1	49	21.96	20.66	0.116
16QAM	2595	38000	20	1	99	21.97	20.67	0.117
16QAM	2595	38000	20	50	0	21.41	20.11	0.103
16QAM	2595	38000	20	50	24	21.18	19.88	0.097
16QAM	2595	38000	20	50	50	21.10	19.80	0.095
16QAM	2595	38000	20	100	0	20.91	19.61	0.091
16QAM	2610	38150	20	1	0	22.04	20.74	0.119
16QAM	2610	38150	20	1	49	21.71	20.41	0.110
16QAM	2610	38150	20	1	99	22.36	21.06	0.128
16QAM	2610	38150	20	50	0	21.13	19.83	0.096
16QAM	2610	38150	20	50	24	21.09	19.79	0.095
16QAM	2610	38150	20	50	50	21.16	19.86	0.097
16QAM	2610	38150	20	100	0	20.75	19.45	0.088
64QAM	2580	37850	20	1	0	20.94	19.64	0.092
64QAM	2580	37850	20	1	49	20.81	19.51	0.089
64QAM	2580	37850	20	1	99	20.87	19.57	0.091
64QAM	2580	37850	20	50	0	19.66	18.36	0.069
64QAM	2580	37850	20	50	24	19.56	18.26	0.067
64QAM	2580	37850	20	50	50	19.58	18.28	0.067
64QAM	2580	37850	20	100	0	19.25	17.95	0.062
64QAM	2595	38000	20	1	0	20.47	19.17	0.083
64QAM	2595	38000	20	1	49	20.43	19.13	0.082
64QAM	2595	38000	20	1	99	20.40	19.10	0.081
64QAM	2595	38000	20	50	0	19.94	18.64	0.073
64QAM	2595	38000	20	50	24	19.75	18.45	0.070
64QAM	2595	38000	20	50	50	19.52	18.22	0.066
64QAM	2595	38000	20	100	0	19.24	17.94	0.062
64QAM	2610	38150	20	1	0	20.47	19.17	0.083
64QAM	2610	38150	20	1	49	20.21	18.91	0.078
64QAM	2610	38150	20	1	99	20.91	19.61	0.091
64QAM	2610	38150	20	50	0	19.55	18.25	0.067
64QAM	2610	38150	20	50	24	19.40	18.10	0.065
64QAM	2610	38150	20	50	50	19.68	18.38	0.069
64QAM	2610	38150	20	100	0	19.08	17.78	0.060