

Fig.55

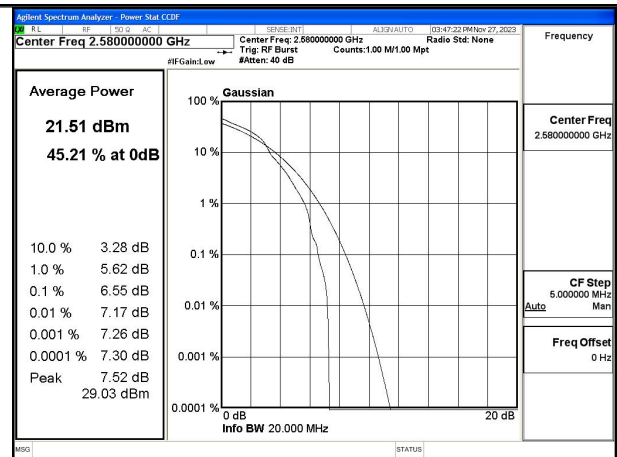


Fig.56

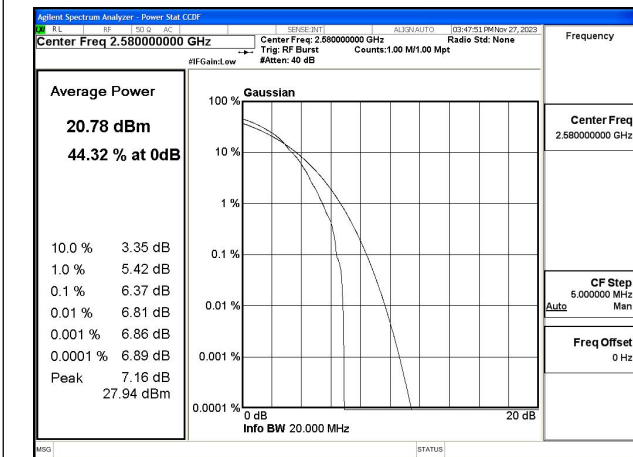


Fig.57

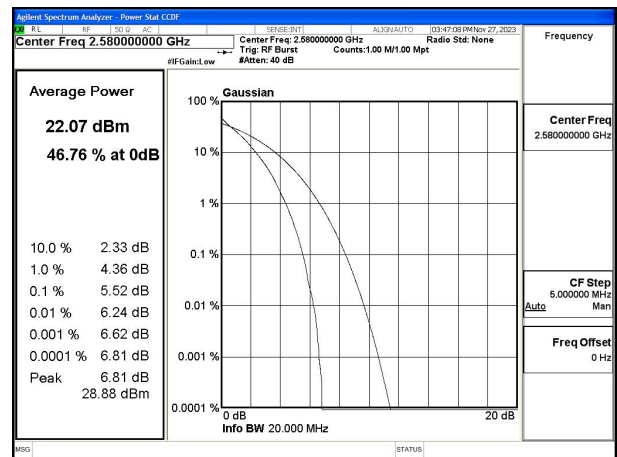


Fig.58

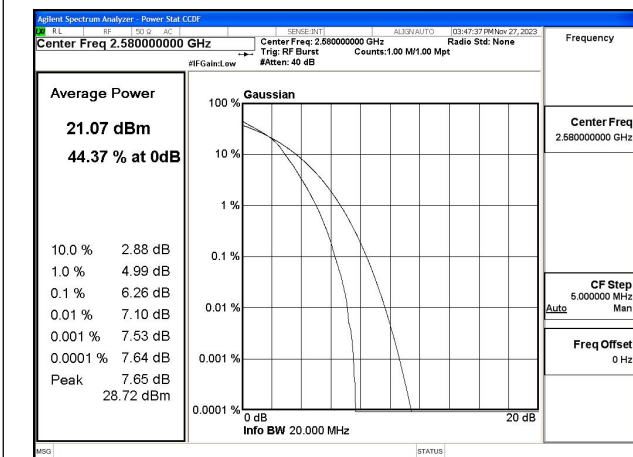


Fig.59

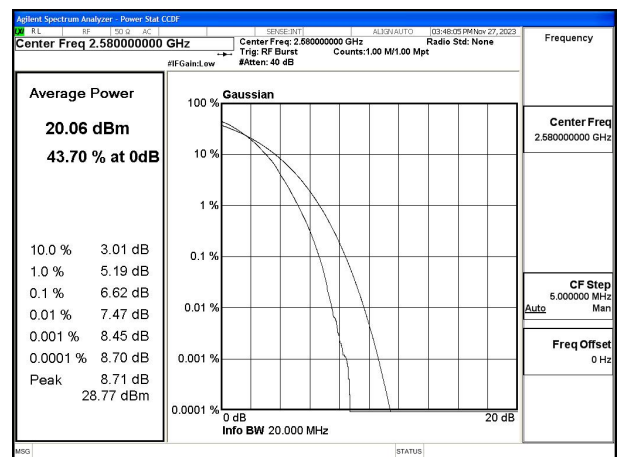


Fig.60

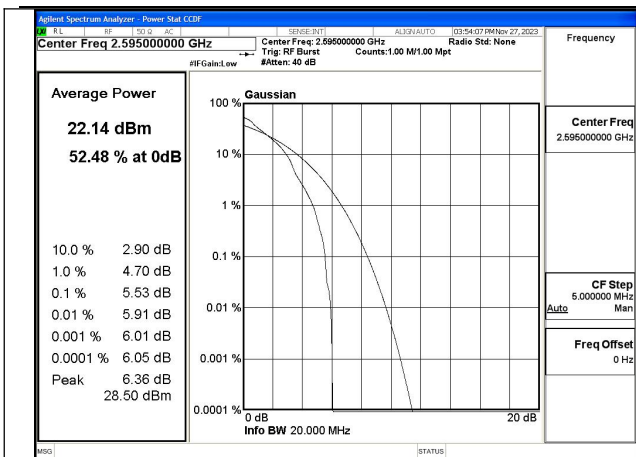


Fig.61

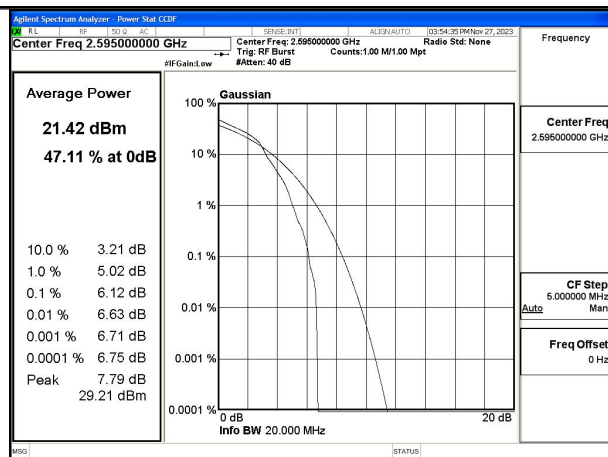


Fig.62

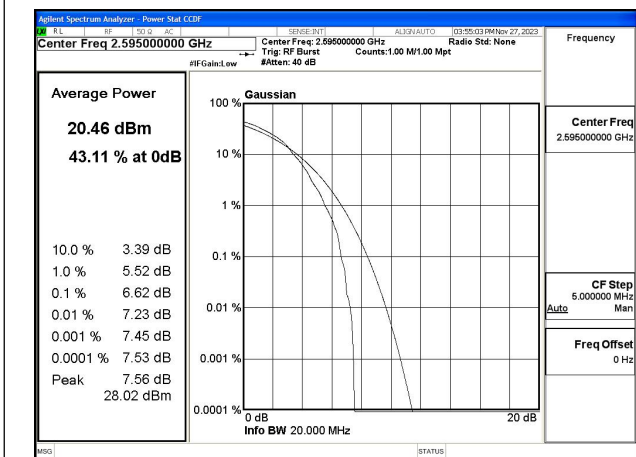


Fig.63

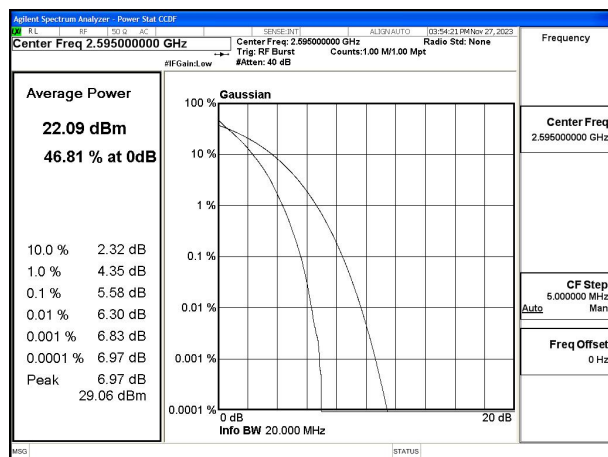


Fig.64

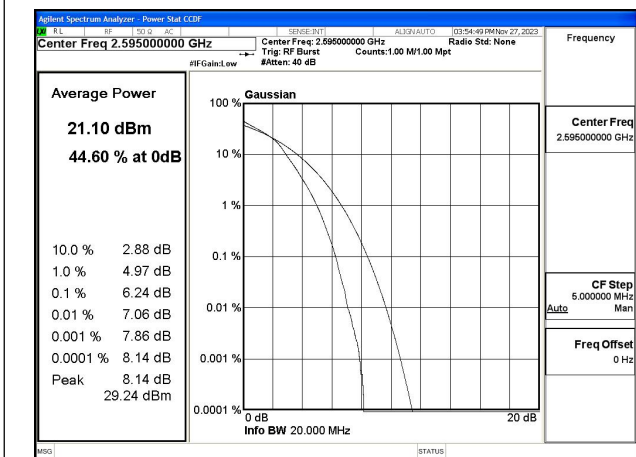


Fig.65

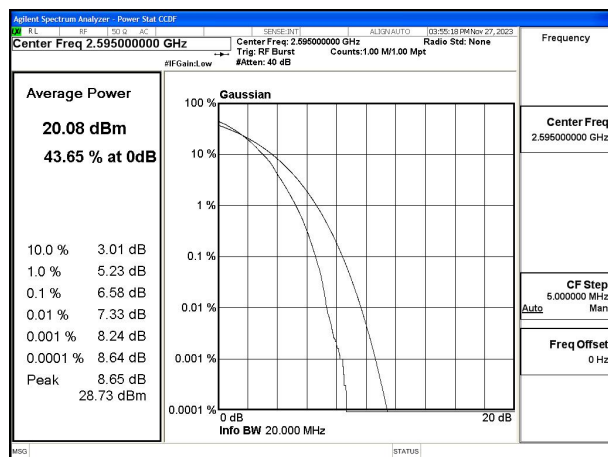


Fig.66

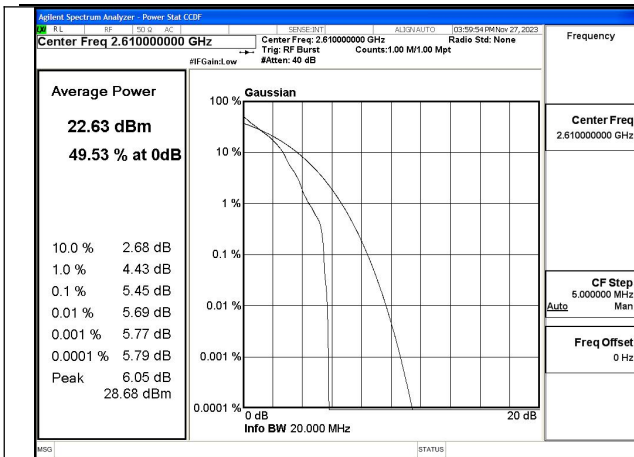


Fig.67

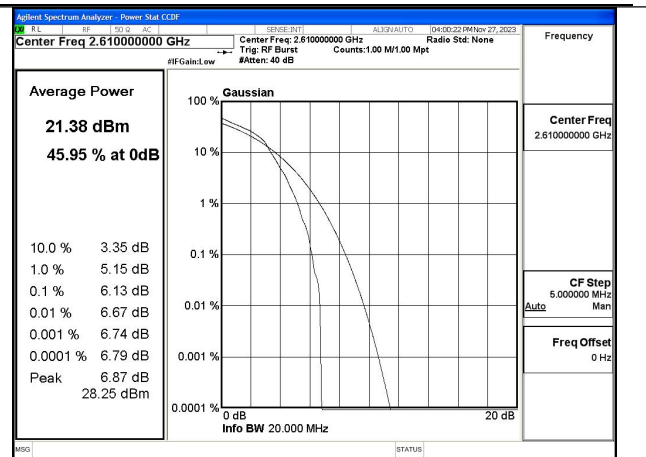


Fig.68

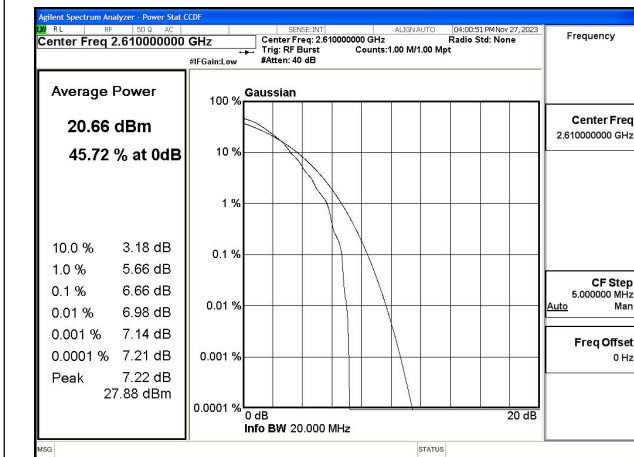


Fig.69

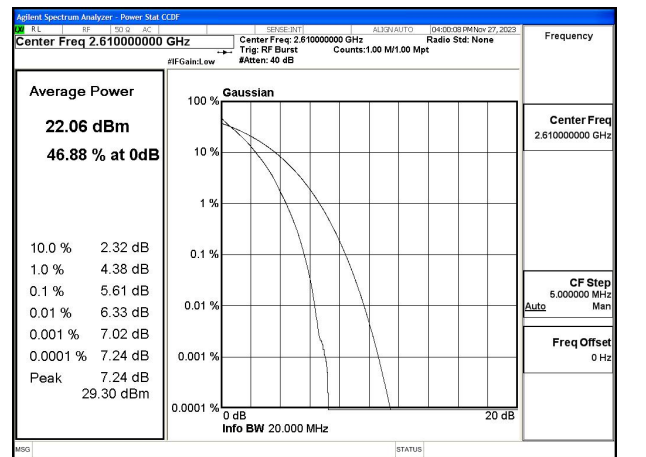


Fig.70

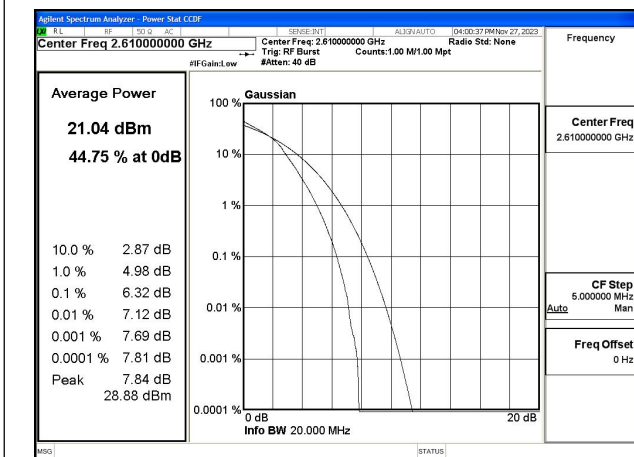


Fig.71

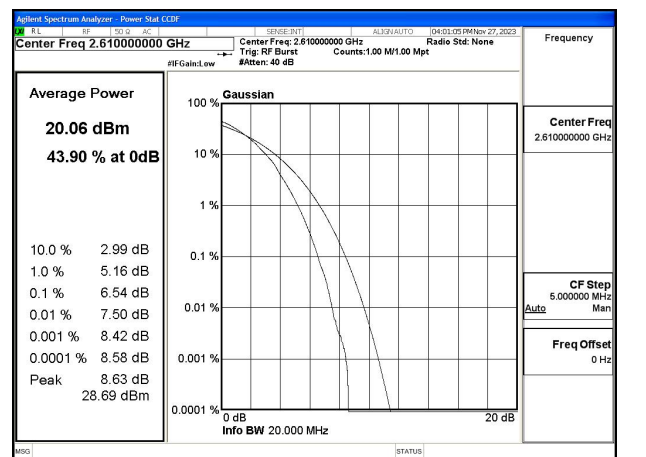


Fig.72

**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

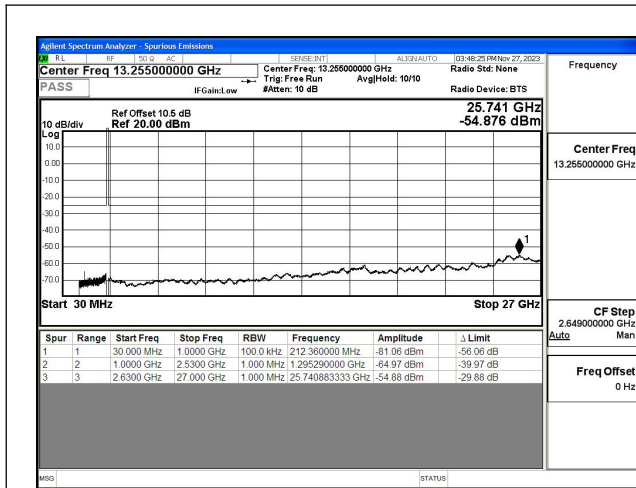


Fig.1

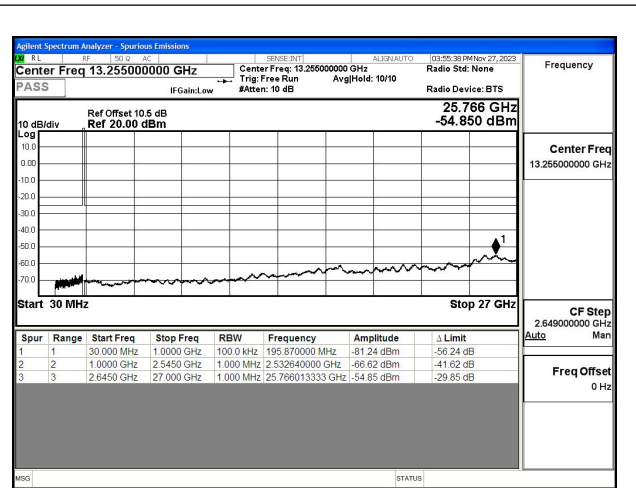


Fig.2

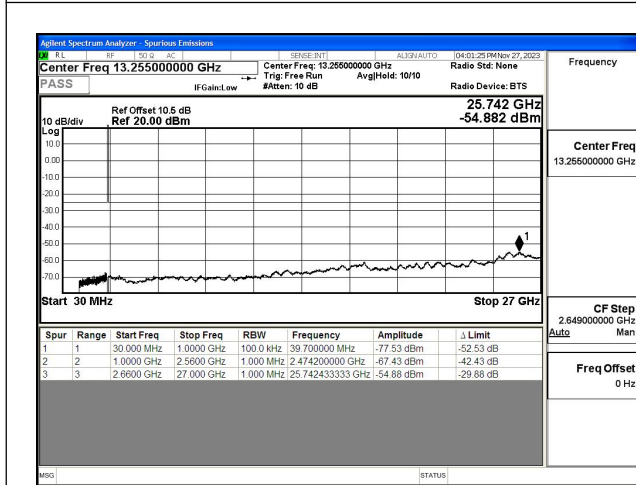
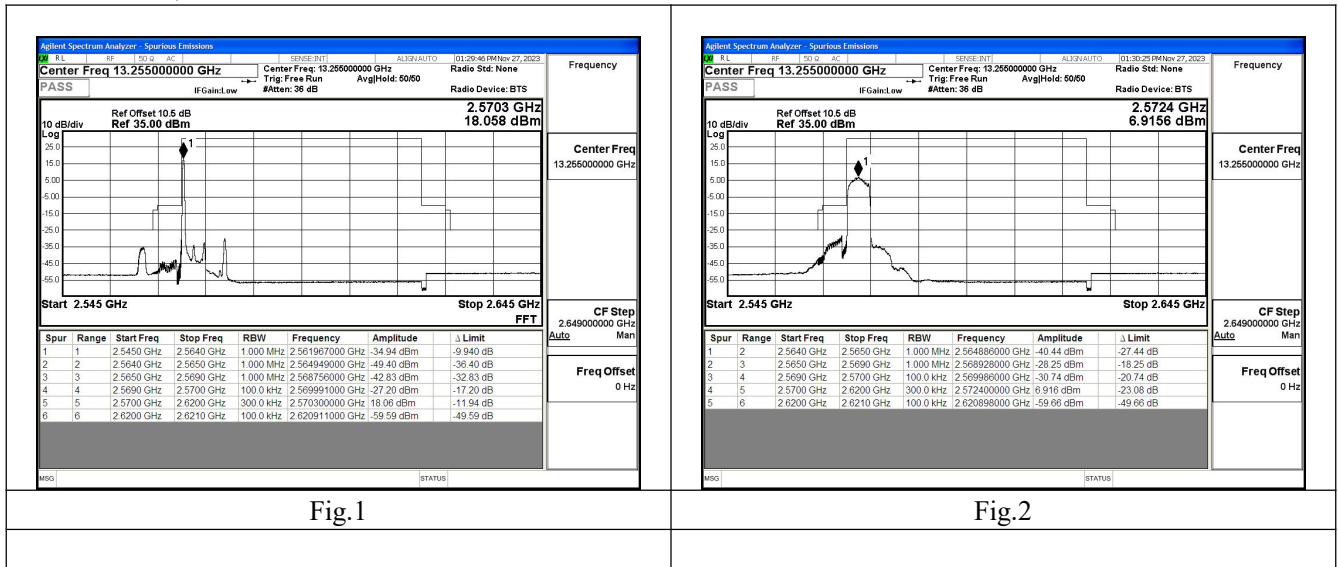


Fig.3

**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



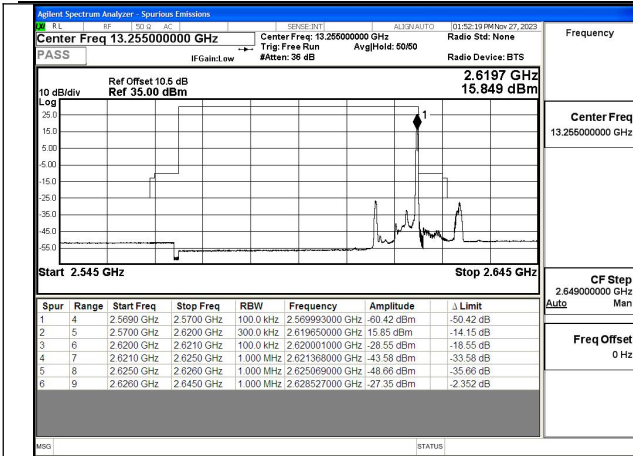


Fig.3

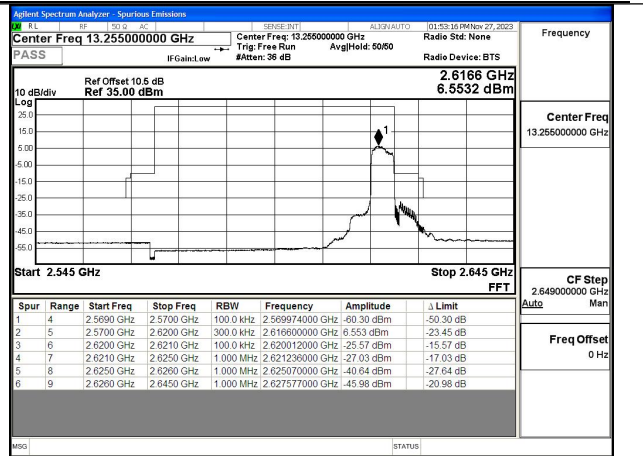


Fig.4

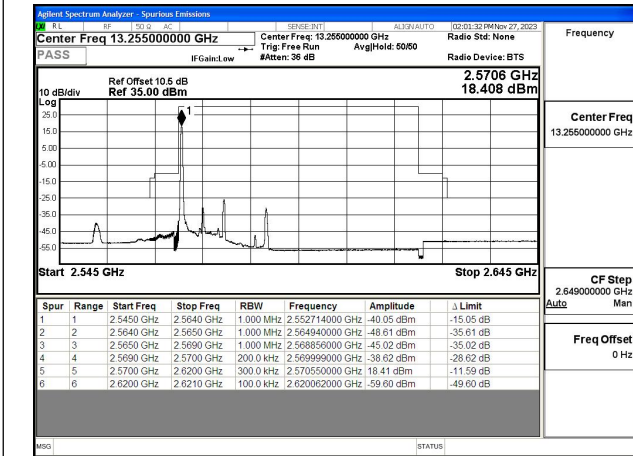


Fig.5

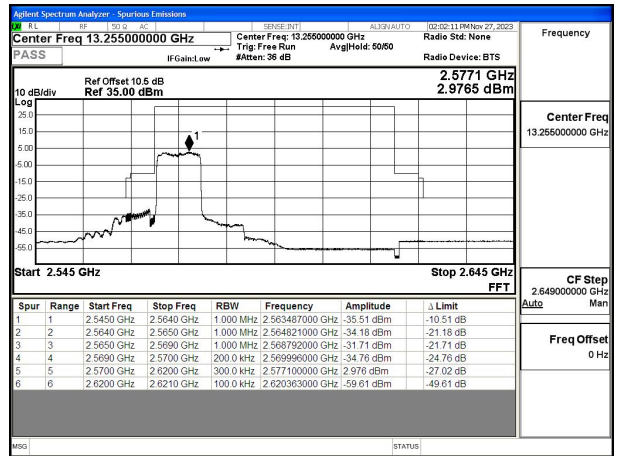


Fig.6

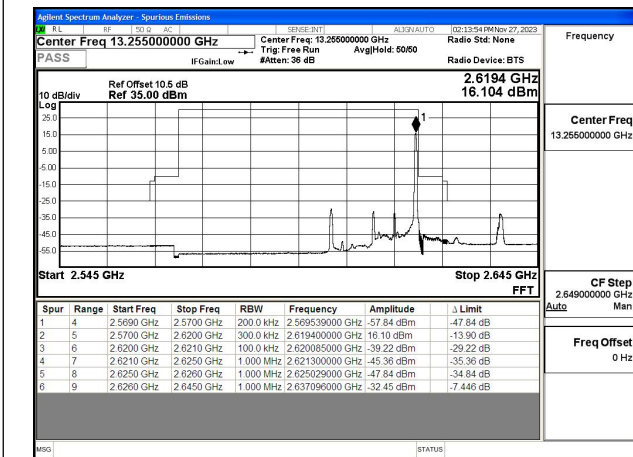


Fig.7



Fig.8

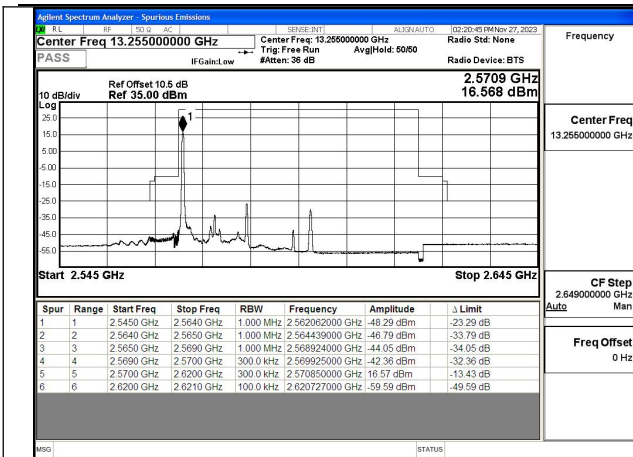


Fig 9



Fig 10

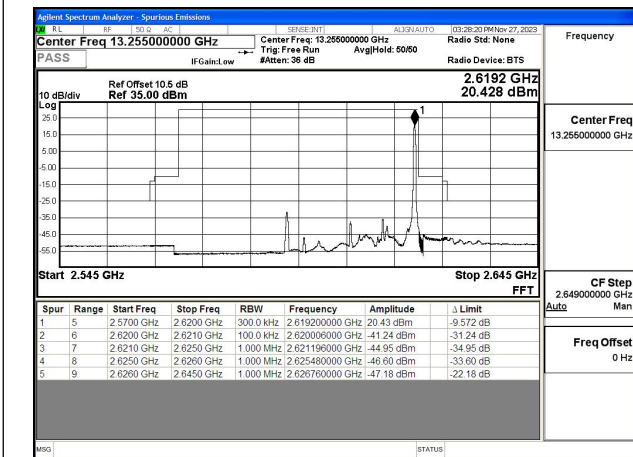


Fig 11

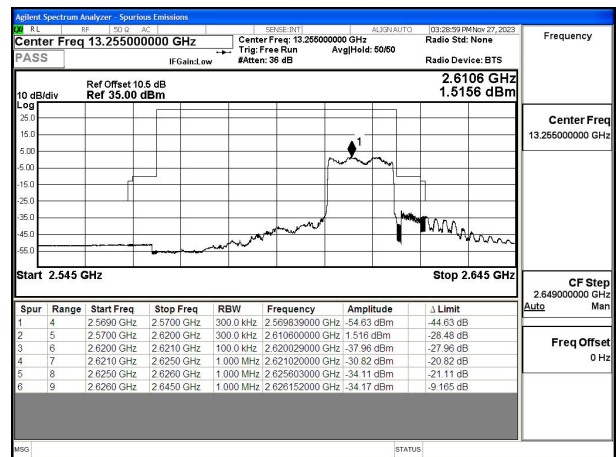


Fig 12

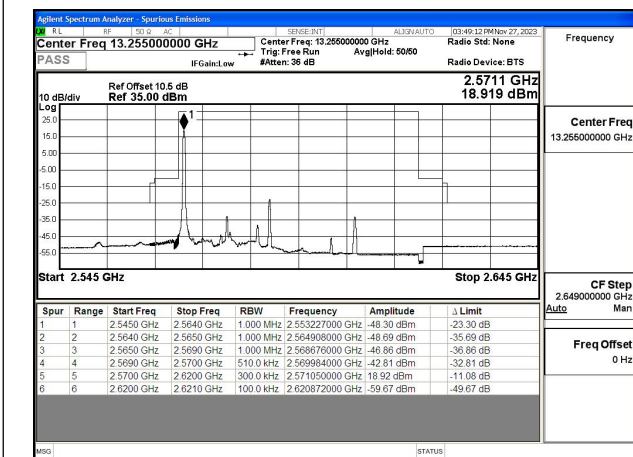


Fig 13

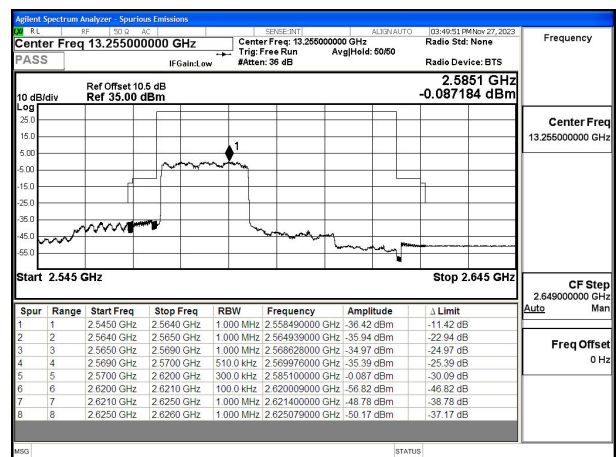


Fig 14

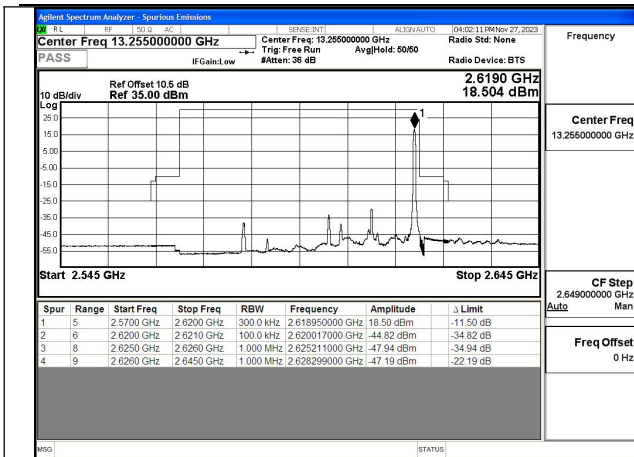


Fig.15

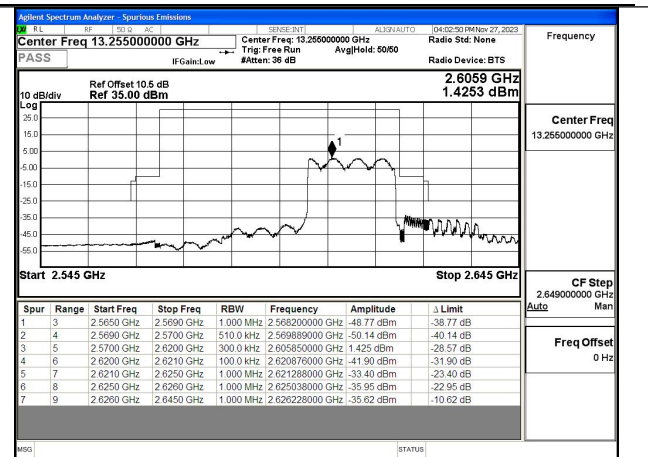


Fig.16



## 7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band 38 Low Channel QPSK			
		5M	10M	15M	20M
0	NV	-0.008	-0.008	-0.007	-0.006
+10	NV	-0.003	-0.005	-0.002	-0.005
+20	NV	0.003	0.002	0.001	-0.004
+30	NV	0.003	-0.007	-0.003	0.001
+45	NV	0.000	-0.008	-0.004	-0.001
+20	LV	-0.005	-0.006	-0.005	-0.004
+20	HV	-0.008	-0.005	-0.003	-0.005

Temperature(°C)	Voltage	Test Result (ppm) Band 38 High Channel QPSK			
		5M	10M	15M	20M
0	NV	-0.009	-0.004	0.002	-0.002
+10	NV	0.005	-0.007	-0.007	-0.003
+20	NV	-0.011	-0.006	-0.004	-0.003
+30	NV	-0.008	-0.008	-0.007	-0.003
+45	NV	-0.008	-0.005	-0.006	0.002
+50	NV	-0.006	-0.006	0.003	-0.006
+20	LV	-0.011	-0.004	-0.004	-0.001
+20	HV	-0.002	-0.002	-0.006	-0.004

**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	22.75	18.24	0.067
QPSK	2572.5	37775	5	1	12	23.03	18.52	0.071
QPSK	2572.5	37775	5	1	24	22.73	18.22	0.066
QPSK	2572.5	37775	5	12	0	21.84	17.33	0.054
QPSK	2572.5	37775	5	12	7	21.91	17.40	0.055
QPSK	2572.5	37775	5	12	13	21.83	17.32	0.054
QPSK	2572.5	37775	5	25	0	21.84	17.33	0.054
QPSK	2595	38000	5	1	0	22.94	18.43	0.070
QPSK	2595	38000	5	1	12	23.21	18.70	0.074
QPSK	2595	38000	5	1	24	22.93	18.42	0.070
QPSK	2595	38000	5	12	0	22.01	17.50	0.056
QPSK	2595	38000	5	12	7	22.03	17.52	0.056
QPSK	2595	38000	5	12	13	21.95	17.44	0.055
QPSK	2595	38000	5	25	0	21.99	17.48	0.056
QPSK	2617.5	38225	5	1	0	23.41	18.90	0.078

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	22.15	17.64	0.058
16QAM	2572.5	37775	5	1	12	22.41	17.90	0.062
16QAM	2572.5	37775	5	1	24	22.14	17.63	0.058
16QAM	2572.5	37775	5	12	0	20.83	16.32	0.043
16QAM	2572.5	37775	5	12	7	21.02	16.51	0.045
16QAM	2572.5	37775	5	12	13	21.00	16.49	0.045
16QAM	2572.5	37775	5	25	0	20.90	16.39	0.044
16QAM	2595	38000	5	1	0	22.33	17.82	0.061
16QAM	2595	38000	5	1	12	22.59	18.08	0.064
16QAM	2595	38000	5	1	24	22.38	17.87	0.061
16QAM	2595	38000	5	12	0	21.05	16.54	0.045
16QAM	2595	38000	5	12	7	21.10	16.59	0.046
16QAM	2595	38000	5	12	13	20.99	16.48	0.044
16QAM	2595	38000	5	25	0	21.05	16.54	0.045
16QAM	2617.5	38225	5	1	0	22.88	18.37	0.069
16QAM	2617.5	38225	5	1	12	22.31	17.80	0.060
64QAM	2572.5	37775	5	1	0	21.12	16.61	0.046
64QAM	2572.5	37775	5	1	12	21.32	16.81	0.048
64QAM	2572.5	37775	5	1	24	21.12	16.61	0.046
64QAM	2572.5	37775	5	12	0	19.75	15.24	0.033
64QAM	2572.5	37775	5	12	7	19.85	15.34	0.034
64QAM	2572.5	37775	5	12	13	19.79	15.28	0.034
64QAM	2572.5	37775	5	25	0	19.92	15.41	0.035
64QAM	2595	38000	5	1	0	21.31	16.80	0.048
64QAM	2595	38000	5	1	12	21.57	17.06	0.051
64QAM	2595	38000	5	1	24	21.26	16.75	0.047
64QAM	2595	38000	5	12	0	20.00	15.49	0.035
64QAM	2595	38000	5	12	7	20.02	15.51	0.036
64QAM	2595	38000	5	12	13	19.97	15.46	0.035
64QAM	2595	38000	5	25	0	19.98	15.47	0.035
64QAM	2617.5	38225	5	1	0	21.84	17.33	0.054
64QAM	2617.5	38225	5	1	12	21.31	16.80	0.048

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	22.87	18.36	0.069
QPSK	2575	37800	10	1	25	23.16	18.65	0.073
QPSK	2575	37800	10	1	49	22.95	18.44	0.070
QPSK	2575	37800	10	25	0	21.94	17.43	0.055
QPSK	2575	37800	10	25	12	21.91	17.40	0.055
QPSK	2575	37800	10	25	25	21.93	17.42	0.055
QPSK	2575	37800	10	50	0	21.94	17.43	0.055
QPSK	2595	38000	10	1	0	22.98	18.47	0.070
QPSK	2595	38000	10	1	25	23.21	18.70	0.074
QPSK	2595	38000	10	1	49	22.96	18.45	0.070
QPSK	2595	38000	10	25	0	22.06	17.55	0.057
QPSK	2595	38000	10	25	12	22.08	17.57	0.057
QPSK	2595	38000	10	25	25	21.95	17.44	0.055
QPSK	2595	38000	10	50	0	22.01	17.50	0.056
QPSK	2615	38200	10	1	0	22.67	18.16	0.065
QPSK	2615	38200	10	1	25	22.93	18.42	0.070
QPSK	2615	38200	10	1	49	22.75	18.24	0.067
QPSK	2615	38200	10	25	0	21.88	17.37	0.055
QPSK	2615	38200	10	25	12	21.82	17.31	0.054
QPSK	2615	38200	10	25	25	21.84	17.33	0.054
QPSK	2615	38200	10	50	0	21.84	17.33	0.054

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	22.00	17.49	0.056
16QAM	2575	37800	10	1	25	22.24	17.73	0.059
16QAM	2575	37800	10	1	49	22.06	17.55	0.057
16QAM	2575	37800	10	25	0	20.94	16.43	0.044
16QAM	2575	37800	10	25	12	20.91	16.40	0.044
16QAM	2575	37800	10	25	25	20.96	16.45	0.044
16QAM	2575	37800	10	50	0	20.95	16.44	0.044
16QAM	2595	38000	10	1	0	22.20	17.69	0.059
16QAM	2595	38000	10	1	25	22.40	17.89	0.062
16QAM	2595	38000	10	1	49	22.13	17.62	0.058
16QAM	2595	38000	10	25	0	21.10	16.59	0.046
16QAM	2595	38000	10	25	12	21.07	16.56	0.045
16QAM	2595	38000	10	25	25	21.03	16.52	0.045
16QAM	2595	38000	10	50	0	21.05	16.54	0.045
16QAM	2615	38200	10	1	0	22.10	17.59	0.057
16QAM	2615	38200	10	1	25	22.35	17.84	0.061
16QAM	2615	38200	10	1	49	22.18	17.67	0.058
16QAM	2615	38200	10	25	0	20.86	16.35	0.043
16QAM	2615	38200	10	25	12	20.84	16.33	0.043
16QAM	2615	38200	10	25	25	20.85	16.34	0.043
16QAM	2615	38200	10	50	0	20.93	16.42	0.044
64QAM	2575	37800	10	1	0	20.51	16.00	0.040
64QAM	2575	37800	10	1	25	20.74	16.23	0.042
64QAM	2575	37800	10	1	49	20.53	16.02	0.040
64QAM	2575	37800	10	25	0	19.87	15.36	0.034
64QAM	2575	37800	10	25	12	19.85	15.34	0.034
64QAM	2575	37800	10	25	25	19.85	15.34	0.034
64QAM	2575	37800	10	50	0	19.88	15.37	0.034
64QAM	2595	38000	10	1	0	21.51	17.00	0.050
64QAM	2595	38000	10	1	25	21.67	17.16	0.052
64QAM	2595	38000	10	1	49	21.46	16.95	0.050
64QAM	2595	38000	10	25	0	20.07	15.56	0.036
64QAM	2595	38000	10	25	12	20.03	15.52	0.036
64QAM	2595	38000	10	25	25	19.93	15.42	0.035
64QAM	2595	38000	10	50	0	20.06	15.55	0.036
64QAM	2615	38200	10	1	0	20.79	16.28	0.042
64QAM	2615	38200	10	1	25	21.03	16.52	0.045
64QAM	2615	38200	10	1	49	20.82	16.31	0.043
64QAM	2615	38200	10	25	0	19.80	15.29	0.034
64QAM	2615	38200	10	25	12	19.80	15.29	0.034
64QAM	2615	38200	10	25	25	19.83	15.32	0.034
64QAM	2615	38200	10	50	0	19.85	15.34	0.034

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	22.82	18.31	0.068
QPSK	2577.5	37825	15	1	37	23.19	18.68	0.074
QPSK	2577.5	37825	15	1	74	22.84	18.33	0.068
QPSK	2577.5	37825	15	36	0	21.93	17.42	0.055
QPSK	2577.5	37825	15	36	29	22.01	17.50	0.056
QPSK	2577.5	37825	15	36	30	22.03	17.52	0.056
QPSK	2577.5	37825	15	75	0	22.02	17.51	0.056
QPSK	2595	38000	15	1	0	22.86	18.35	0.068
QPSK	2612.5	38175	15	1	0	22.86	18.35	0.068

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	22.04	17.53	0.057
16QAM	2577.5	37825	15	1	37	22.39	17.88	0.061
16QAM	2577.5	37825	15	1	74	22.03	17.52	0.056
16QAM	2577.5	37825	15	36	0	20.91	16.40	0.044
16QAM	2577.5	37825	15	36	29	20.96	16.45	0.044
16QAM	2577.5	37825	15	36	30	21.01	16.50	0.045
16QAM	2577.5	37825	15	75	0	20.93	16.42	0.044
16QAM	2595	38000	15	1	0	22.21	17.70	0.059
16QAM	2612.5	38175	15	1	0	22.05	17.54	0.057
16QAM	2612.5	38175	15	1	37	22.12	17.61	0.058
64QAM	2577.5	37825	15	1	0	21.25	16.74	0.047
64QAM	2577.5	37825	15	1	37	21.63	17.12	0.052
64QAM	2577.5	37825	15	1	74	21.33	16.82	0.048
64QAM	2577.5	37825	15	36	0	19.88	15.37	0.034
64QAM	2577.5	37825	15	36	29	19.91	15.40	0.035
64QAM	2577.5	37825	15	36	30	19.94	15.43	0.035
64QAM	2577.5	37825	15	75	0	19.93	15.42	0.035
64QAM	2595	38000	15	1	0	20.97	16.46	0.044

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	22.68	18.17	0.066
QPSK	2580	37850	20	1	49	23.15	18.64	0.073
QPSK	2580	37850	20	1	99	22.79	18.28	0.067
QPSK	2580	37850	20	50	0	21.98	17.47	0.056
QPSK	2580	37850	20	50	24	22.03	17.52	0.056
QPSK	2580	37850	20	50	50	22.07	17.56	0.057
QPSK	2580	37850	20	100	0	22.08	17.57	0.057
QPSK	2595	38000	20	1	0	22.87	18.36	0.069
QPSK	2595	38000	20	1	49	23.25	18.74	0.075
QPSK	2595	38000	20	1	99	22.69	18.18	0.066
QPSK	2595	38000	20	50	0	22.13	17.62	0.058
QPSK	2595	38000	20	50	24	22.13	17.62	0.058
QPSK	2595	38000	20	50	50	21.99	17.48	0.056
QPSK	2595	38000	20	100	0	22.08	17.57	0.057
QPSK	2610	38150	20	1	0	22.70	18.19	0.066
QPSK	2610	38150	20	1	49	23.05	18.54	0.071
QPSK	2610	38150	20	1	99	22.62	18.11	0.065
QPSK	2610	38150	20	50	0	22.03	17.52	0.056
QPSK	2610	38150	20	50	24	22.05	17.54	0.057
QPSK	2610	38150	20	50	50	21.96	17.45	0.056
QPSK	2610	38150	20	100	0	22.03	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	2580	37850	20	1	0	21.97	17.46	0.056
16QAM	2580	37850	20	1	49	22.38	17.87	0.061
16QAM	2580	37850	20	1	99	22.08	17.57	0.057
16QAM	2580	37850	20	50	0	20.95	16.44	0.044
16QAM	2580	37850	20	50	24	21.04	16.53	0.045
16QAM	2580	37850	20	50	50	21.10	16.59	0.046
16QAM	2580	37850	20	100	0	21.00	16.49	0.045
16QAM	2595	38000	20	1	0	22.19	17.68	0.059
16QAM	2595	38000	20	1	49	22.55	18.04	0.064
16QAM	2595	38000	20	1	99	22.05	17.54	0.057
16QAM	2595	38000	20	50	0	21.10	16.59	0.046
16QAM	2595	38000	20	50	24	21.13	16.62	0.046
16QAM	2595	38000	20	50	50	21.01	16.50	0.045
16QAM	2595	38000	20	100	0	21.04	16.53	0.045
16QAM	2610	38150	20	1	0	21.63	17.12	0.052
16QAM	2610	38150	20	1	49	21.95	17.44	0.055
16QAM	2610	38150	20	1	99	21.54	17.03	0.050
16QAM	2610	38150	20	50	0	21.08	16.57	0.045
16QAM	2610	38150	20	50	24	21.04	16.53	0.045
16QAM	2610	38150	20	50	50	20.96	16.45	0.044
16QAM	2610	38150	20	100	0	21.04	16.53	0.045
64QAM	2580	37850	20	1	0	20.67	16.16	0.041
64QAM	2580	37850	20	1	49	21.20	16.69	0.047
64QAM	2580	37850	20	1	99	20.86	16.35	0.043
64QAM	2580	37850	20	50	0	19.98	15.47	0.035
64QAM	2580	37850	20	50	24	20.04	15.53	0.036
64QAM	2580	37850	20	50	50	20.05	15.54	0.036
64QAM	2580	37850	20	100	0	20.04	15.53	0.036
64QAM	2595	38000	20	1	0	20.90	16.39	0.044
64QAM	2595	38000	20	1	49	21.25	16.74	0.047
64QAM	2595	38000	20	1	99	20.68	16.17	0.041
64QAM	2595	38000	20	50	0	20.07	15.56	0.036
64QAM	2595	38000	20	50	24	20.12	15.61	0.036
64QAM	2595	38000	20	50	50	20.00	15.49	0.035
64QAM	2595	38000	20	100	0	20.09	15.58	0.036
64QAM	2610	38150	20	1	0	21.13	16.62	0.046
64QAM	2610	38150	20	1	49	21.36	16.85	0.048
64QAM	2610	38150	20	1	99	21.00	16.49	0.045
64QAM	2610	38150	20	50	0	20.04	15.53	0.036
64QAM	2610	38150	20	50	24	20.06	15.55	0.036
64QAM	2610	38150	20	50	50	19.99	15.48	0.035
64QAM	2610	38150	20	100	0	20.01	15.50	0.035



