

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 71

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	665.5	133147	5	1	0	23.18
				1	24	23.12
				12	6	22.32
				25	0	22.21
	680.5	133297		1	0	23.11
				1	24	23.15
				12	6	22.23
				25	0	22.13
	695.5	133447		1	0	23.06
				1	24	23.05
				12	6	22.13
				25	0	22.07
16QAM	665.5	133147	5	1	0	22.16
				1	24	22.26
				12	6	21.23
				25	0	21.17
	680.5	133297		1	0	22.26
				1	24	22.21
				12	6	21.10
				25	0	21.18
	695.5	133447		1	0	22.41
				1	24	22.21
				12	6	21.15
				25	0	21.26
64QAM	665.5	133147	5	1	0	22.19
				1	24	22.11
				12	6	21.17
				25	0	21.21
	680.5	133297		1	0	22.24
				1	24	22.26
				12	6	21.05
				25	0	21.09
	695.5	133447		1	0	22.24
				1	24	22.07
				12	6	20.99
				25	0	21.02

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	668	133172	10	1	0	23.11
				1	49	23.09
				24	12	22.29
				50	0	22.22
	680.5	133297		1	0	23.10
				1	49	23.14
				24	12	22.21
				50	0	22.22
	693	133422		1	0	23.11
				1	49	23.08
				24	12	22.11
				50	0	22.13
16QAM	668	133172	10	1	0	22.21
				1	49	22.20
				24	12	21.21
				50	0	21.17
	680.5	133297		1	0	22.27
				1	49	22.23
				24	12	21.17
				50	0	21.23
	693	133422		1	0	22.33
				1	49	22.20
				24	12	21.16
				50	0	21.25
64QAM	668	133172	10	1	0	22.17
				1	49	22.18
				24	12	21.17
				50	0	21.23
	680.5	133297		1	0	22.12
				1	49	22.15
				24	12	21.15
				50	0	21.12
	693	133422		1	0	22.27
				1	49	22.14
				24	12	21.04
				50	0	21.01

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	670.5	133197	15	1	0	23.15
				1	74	23.10
				40	18	22.33
				75	0	22.16
	680.5	133297		1	0	23.18
				1	74	23.17
				40	18	22.24
				75	0	22.21
	690.5	133397		1	0	23.04
				1	74	23.13
				40	18	22.10
				75	0	22.17
16QAM	670.5	133197	15	1	0	22.20
				1	74	22.27
				40	18	21.17
				75	0	21.25
	680.5	133297		1	0	22.23
				1	74	22.22
				40	18	21.14
				75	0	21.08
	690.5	133397		1	0	22.29
				1	74	22.30
				40	18	21.12
				75	0	21.28
64QAM	670.5	133197	15	1	0	22.18
				1	74	22.10
				40	18	21.23
				75	0	21.22
	680.5	133297		1	0	22.11
				1	74	22.14
				40	18	21.10
				75	0	21.03
	690.5	133397		1	0	22.32
				1	74	22.21
				40	18	21.06
				75	0	21.00

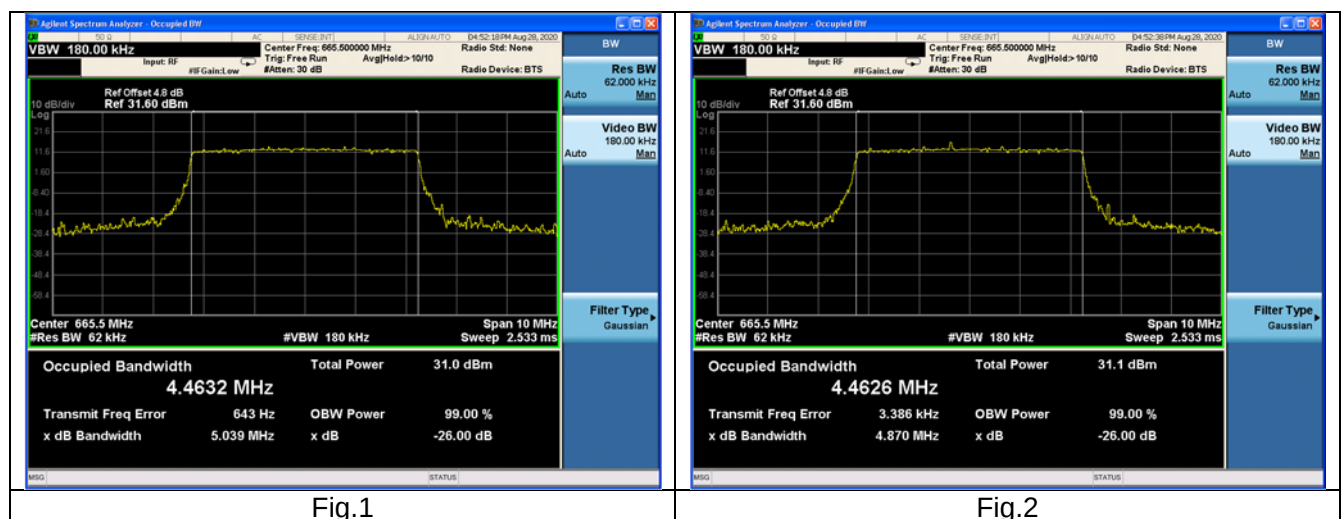
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	673	133222	20	1	0	23.23
				1	99	23.24
				50	25	22.34
				100	0	22.31
	683	133322		1	0	23.21
				1	99	23.23
				50	25	22.28
				100	0	22.27
	688	133372		1	0	23.15
				1	99	23.16
				50	25	22.24
				100	0	22.21
16QAM	673	133222	20	1	0	22.24
				1	99	22.32
				50	25	21.25
				100	0	21.26
	683	133322		1	0	22.32
				1	99	22.31
				50	25	21.17
				100	0	21.23
	688	133372		1	0	22.42
				1	99	22.32
				50	25	21.23
				100	0	21.31
64QAM	673	133222	20	1	0	22.21
				1	99	22.24
				50	25	21.23
				100	0	21.24
	683	133322		1	0	22.25
				1	99	22.27
				50	25	21.17
				100	0	21.16
	688	133372		1	0	22.32
				1	99	22.21
				50	25	21.14
				100	0	21.15

2 Occupied Bandwidth

Test result

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
71	665.5	133147	5	25	0	4.4632	Fig.1	4.4626	Fig.2	4.4664	Fig.3
	680.5	133297		25	0	4.4987	Fig.4	4.4870	Fig.5	4.5037	Fig.6
	695.5	133447		25	0	4.4733	Fig.7	4.4708	Fig.8	4.4783	Fig.9
	668	133172	10	50	0	8.9703	Fig.10	8.9549	Fig.11	8.9725	Fig.12
	680.5	133297		50	0	8.9622	Fig.13	8.9702	Fig.14	8.9739	Fig.15
	693	133422		50	0	8.9615	Fig.16	8.9530	Fig.17	8.9626	Fig.18
	670.5	133197	15	75	0	13.435	Fig.19	13.461	Fig.20	13.430	Fig.21
	680.5	133297		75	0	13.431	Fig.22	13.425	Fig.23	13.427	Fig.24
	690.5	133397		75	0	13.468	Fig.25	13.454	Fig.26	13.444	Fig.27
	673	133222	20	100	0	17.883	Fig.28	17.877	Fig.29	17.905	Fig.30
	683	133322		100	0	17.935	Fig.31	17.862	Fig.32	17.847	Fig.33
	688	133372		100	0	17.931	Fig.34	17.930	Fig.35	17.892	Fig.36

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
71	665.5	133147	5	25	0	5.039	Fig.1	4.870	Fig.2	4.836	Fig.3
	680.5	133297		25	0	5.130	Fig.4	5.011	Fig.5	5.009	Fig.6
	695.5	133447		25	0	5.088	Fig.7	5.131	Fig.8	5.083	Fig.9
	668	133172	10	50	0	9.775	Fig.10	9.862	Fig.11	9.835	Fig.12
	680.5	133297		50	0	9.909	Fig.13	9.853	Fig.14	9.688	Fig.15
	693	133422		50	0	9.967	Fig.16	9.834	Fig.17	9.817	Fig.18
	670.5	133197	15	75	0	14.57	Fig.19	14.64	Fig.20	14.36	Fig.21
	680.5	133297		75	0	14.71	Fig.22	14.64	Fig.23	14.59	Fig.24
	690.5	133397		75	0	14.81	Fig.25	14.51	Fig.26	14.61	Fig.27
	673	133222	20	100	0	19.24	Fig.28	19.18	Fig.29	19.15	Fig.30
	683	133322		100	0	19.47	Fig.31	19.41	Fig.32	19.12	Fig.33
	688	133372		100	0	19.40	Fig.34	19.29	Fig.35	19.33	Fig.36



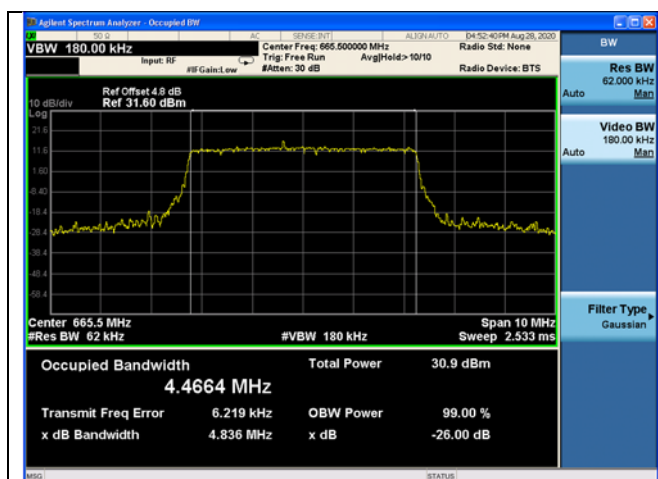


Fig.3

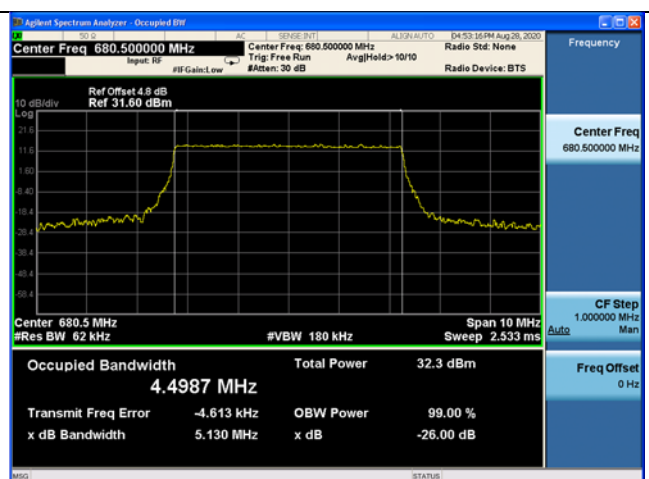


Fig.4

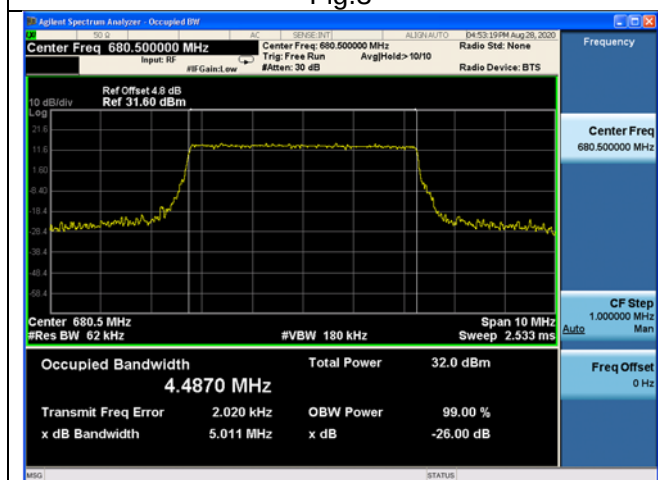


Fig.5

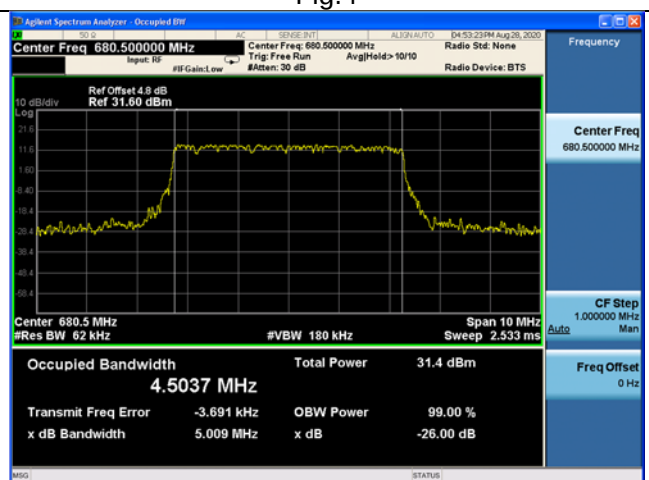


Fig.6

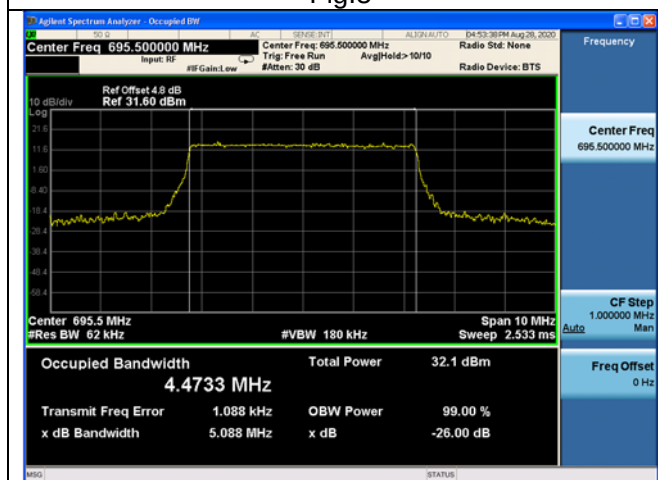


Fig.7

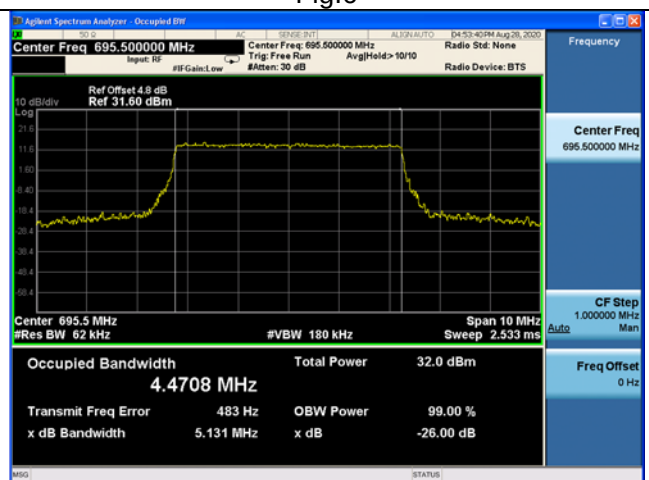


Fig.8

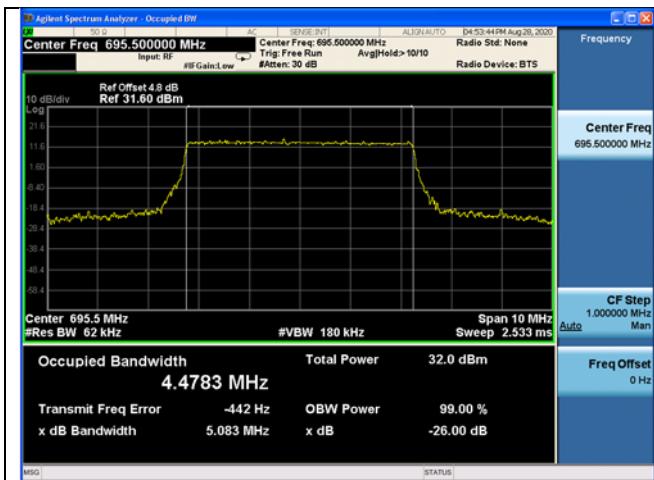


Fig.9

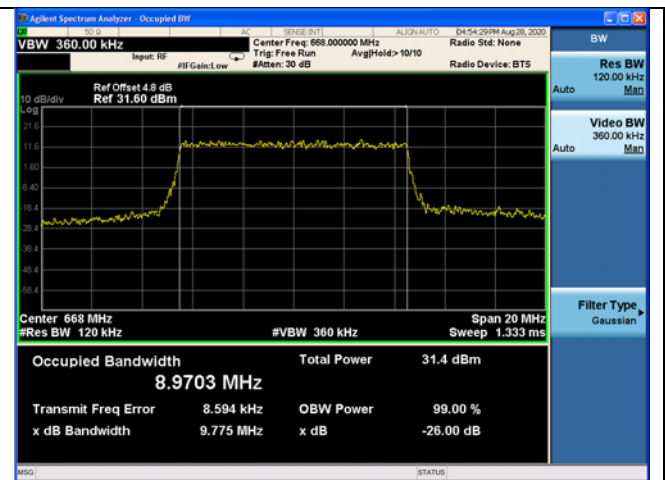


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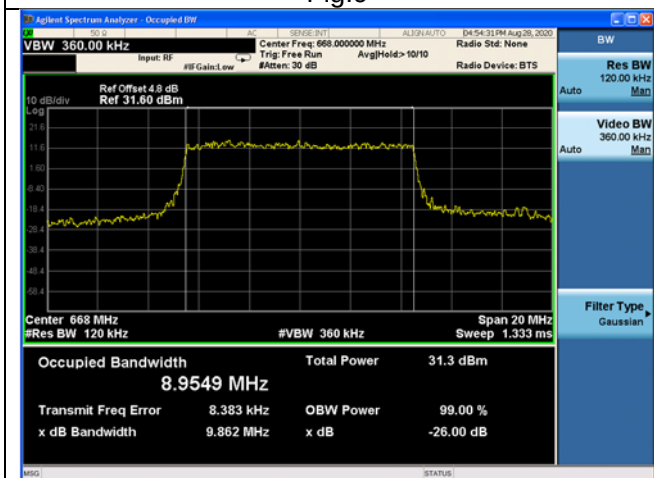


Fig.11

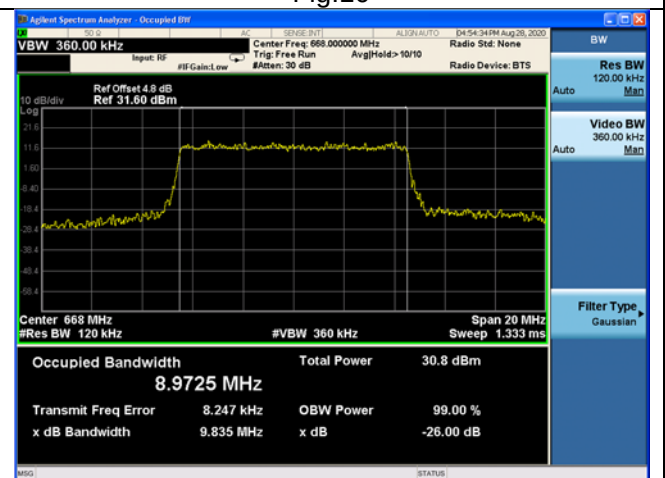


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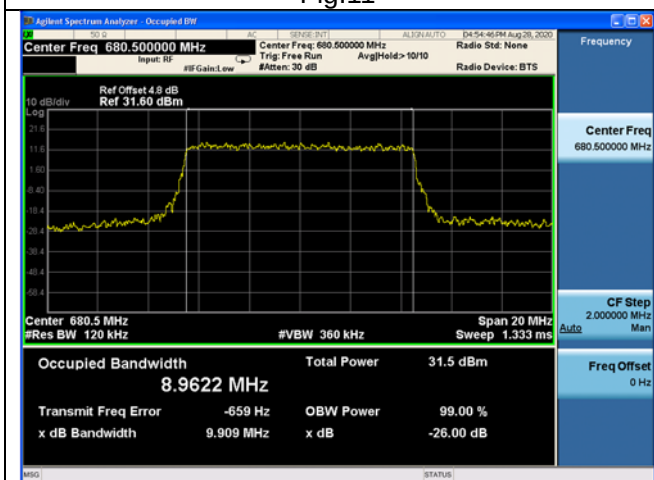


Fig.13

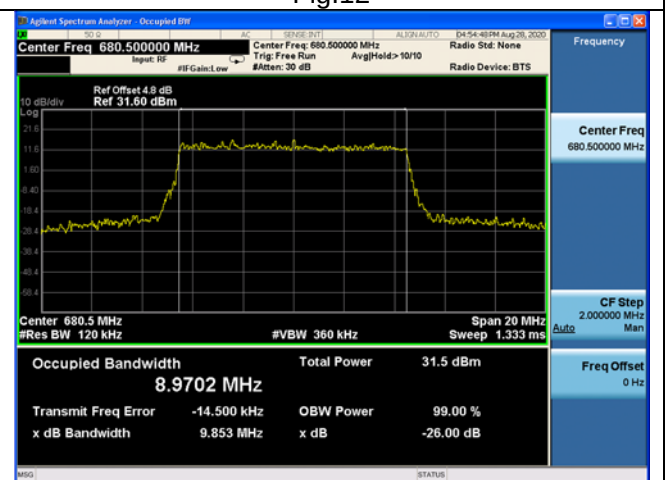


Fig.14

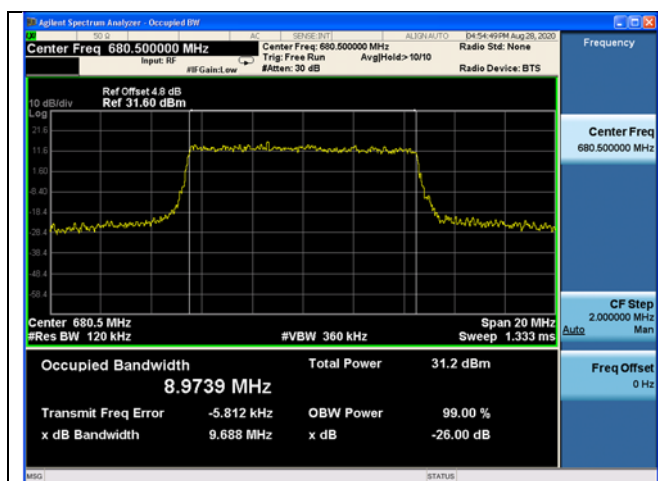


Fig.15

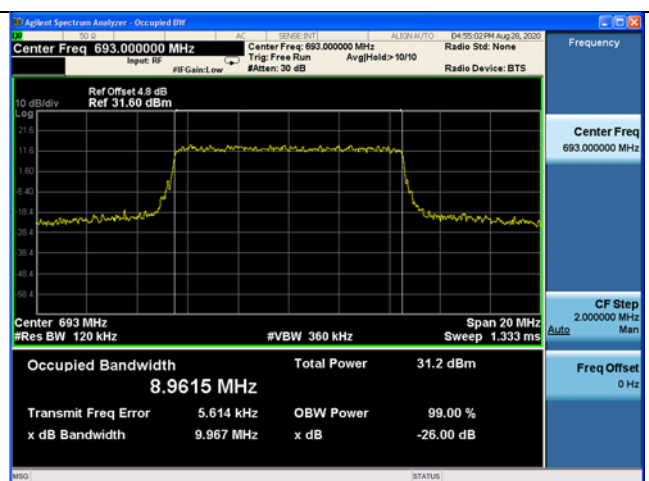


Fig.16

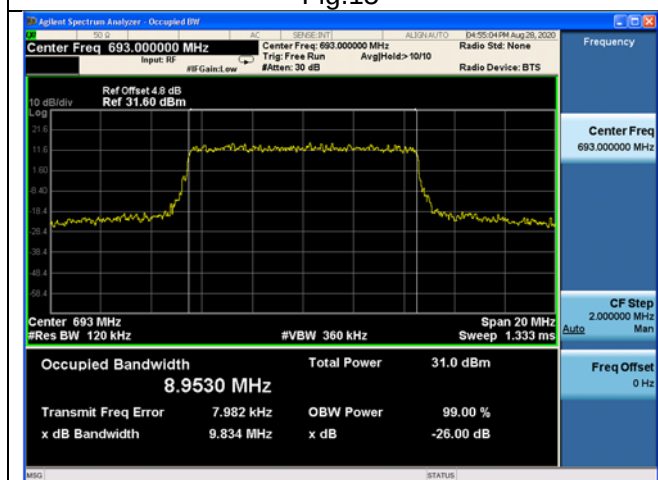


Fig.17

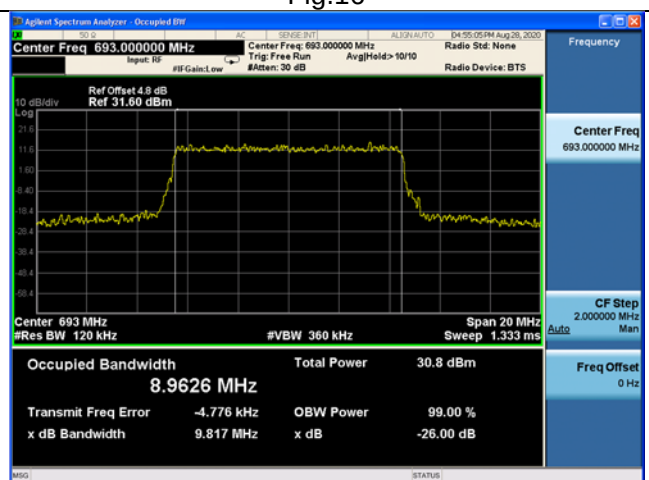


Fig.18

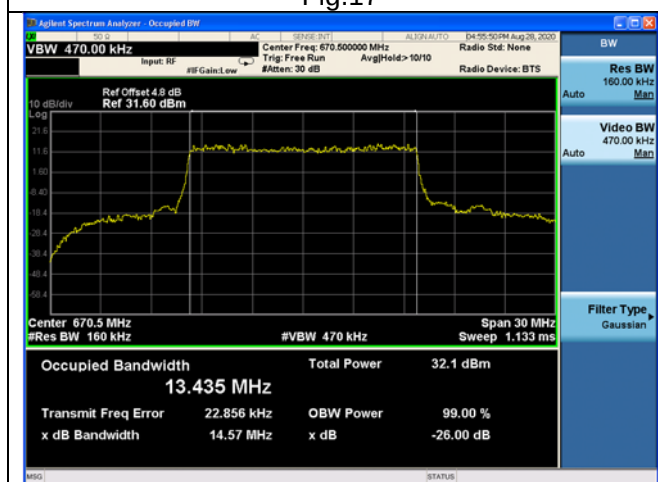


Fig.19

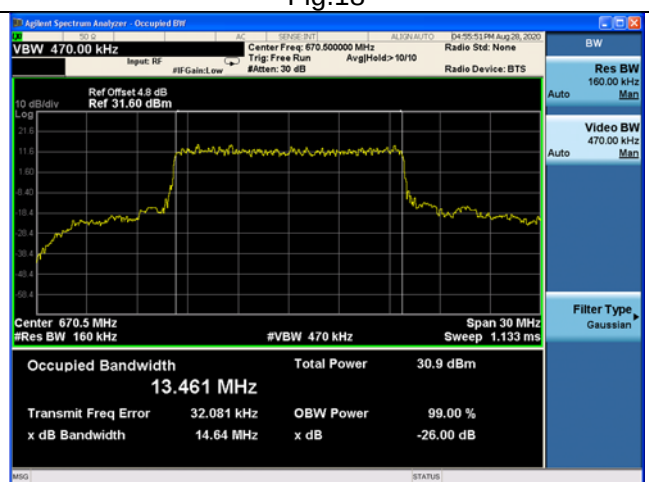


Fig.20

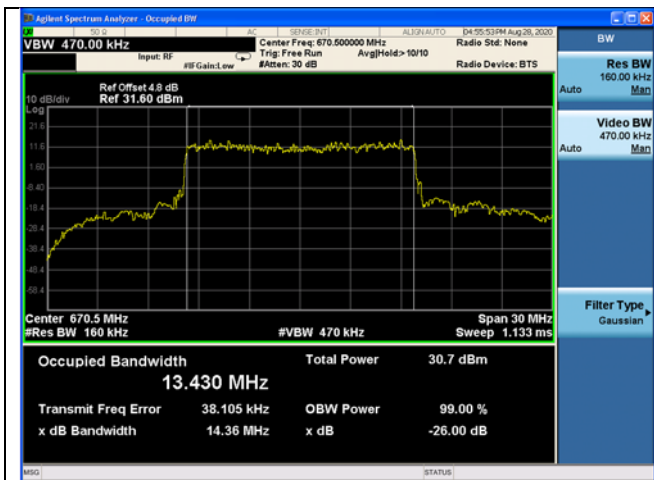


Fig.21

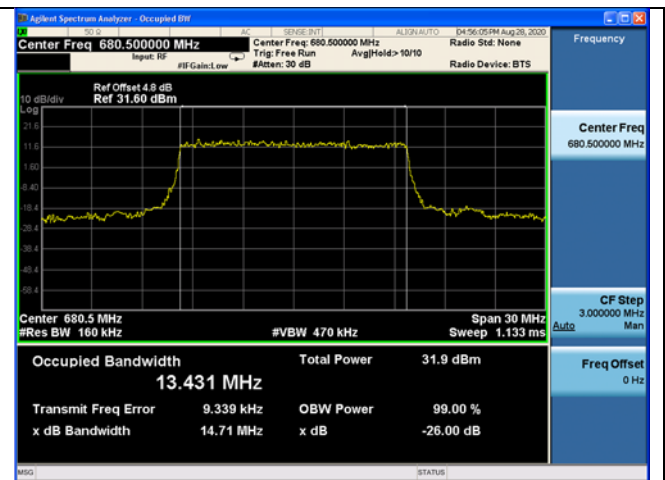


Fig.22

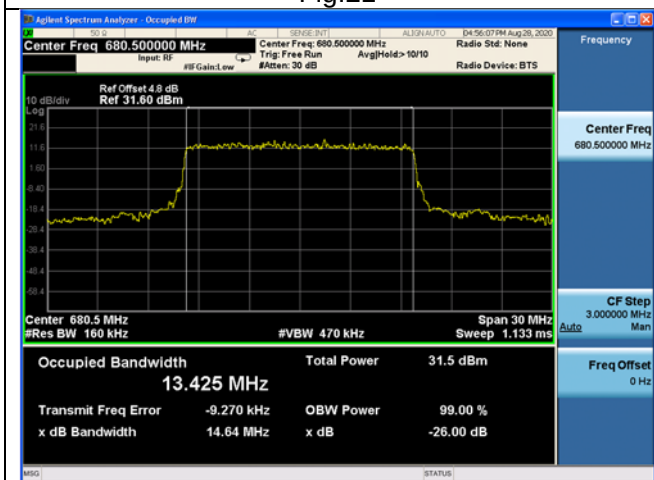


Fig.23

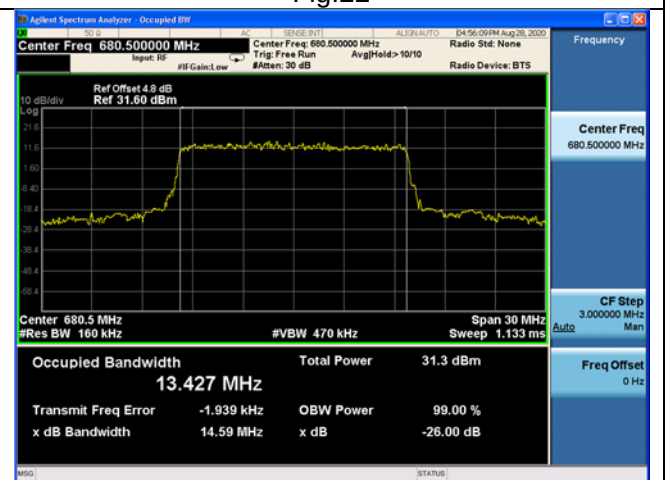


Fig.24

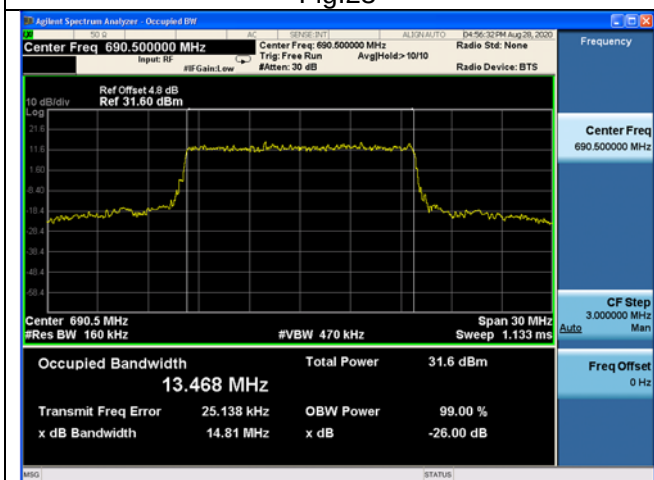


Fig.25

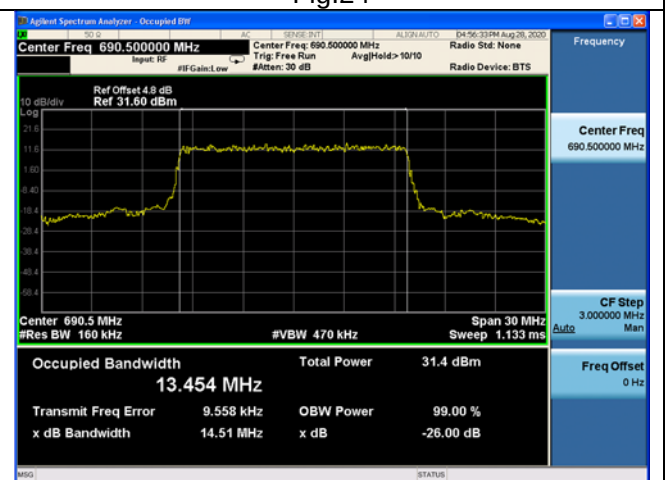


Fig.26

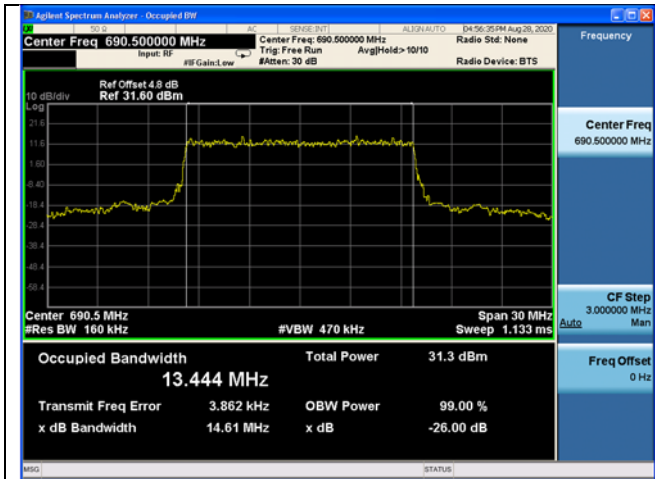


Fig.27



Fig.28

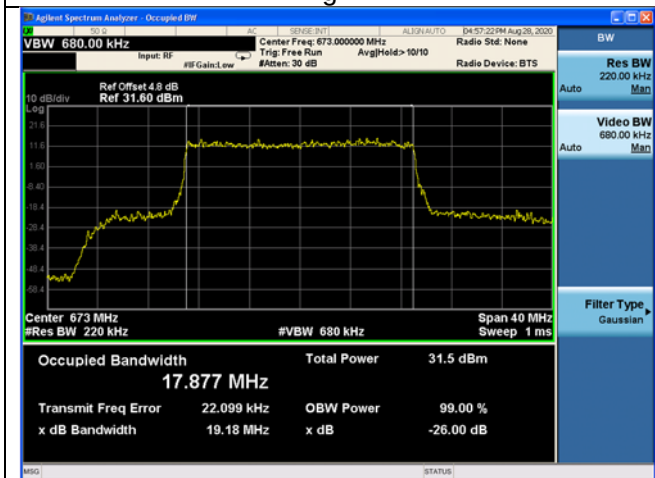


Fig.29

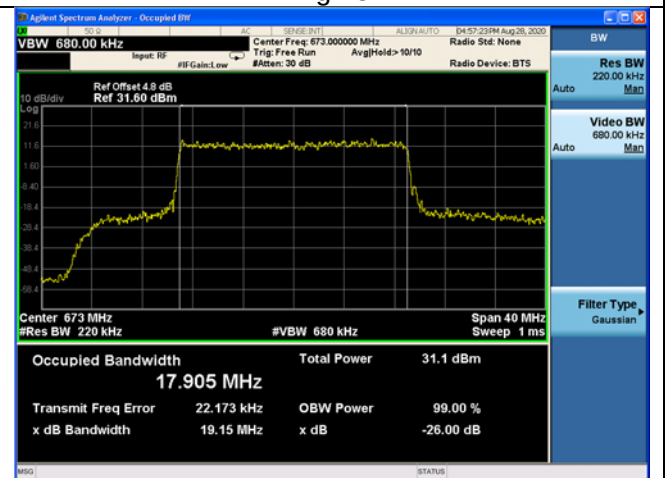


Fig.30

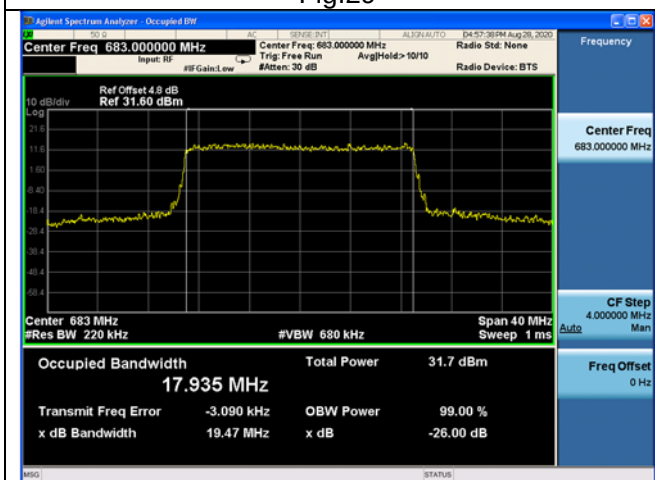


Fig.31

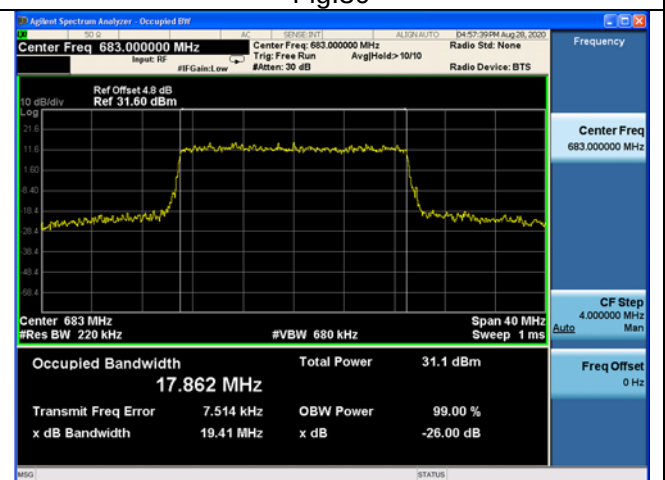


Fig.32

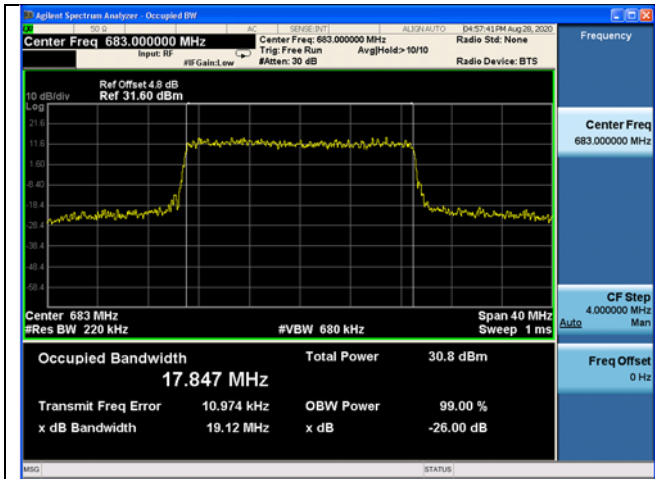


Fig.33

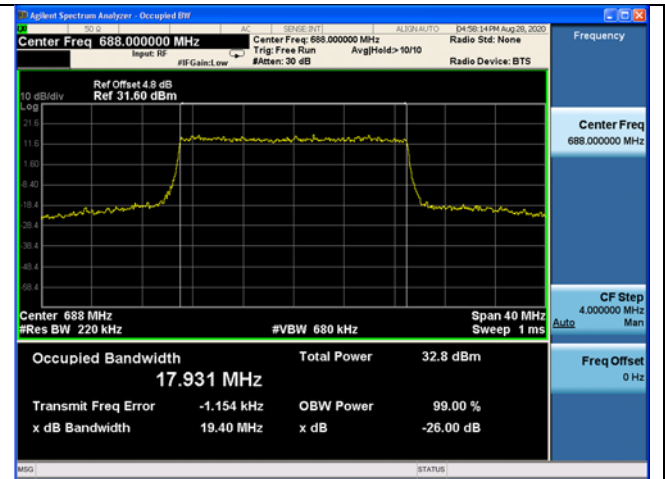


Fig.34

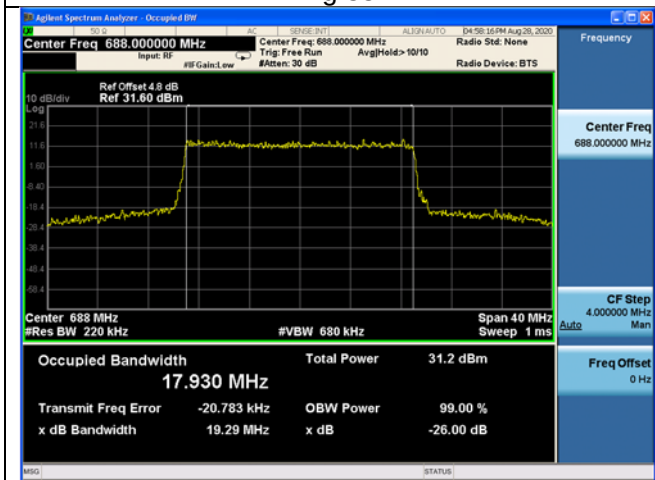


Fig.35

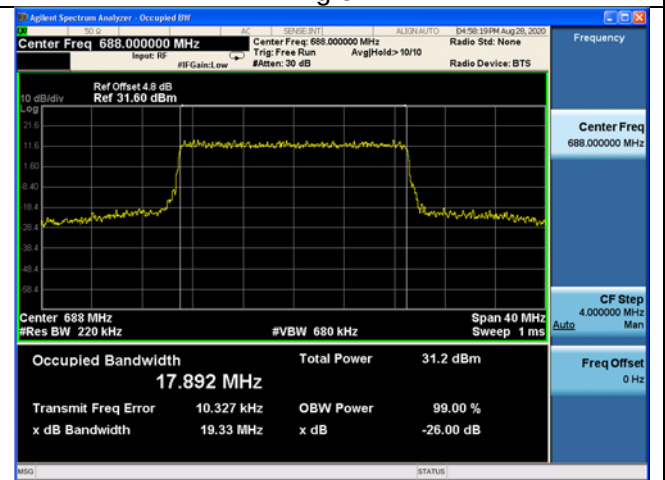
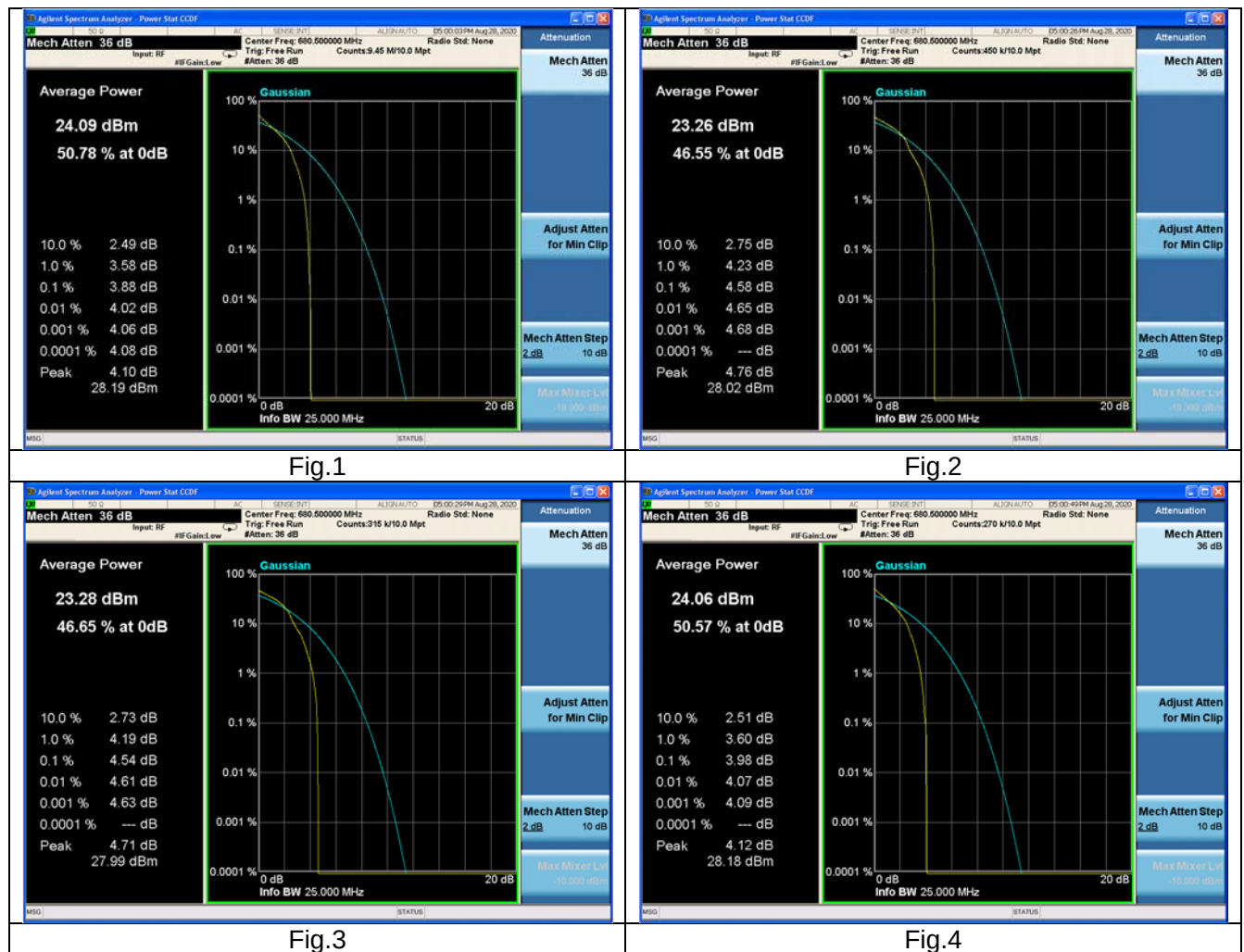


Fig.36

3 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
71	680.5	133297	5	1	0	Fig.1	Fig.2	Fig.3
			10	1	0	Fig.4	Fig.5	Fig.6
			15	1	0	Fig.7	Fig.8	Fig.9
	683	133322	20	1	0	Fig.10	Fig.11	Fig.12



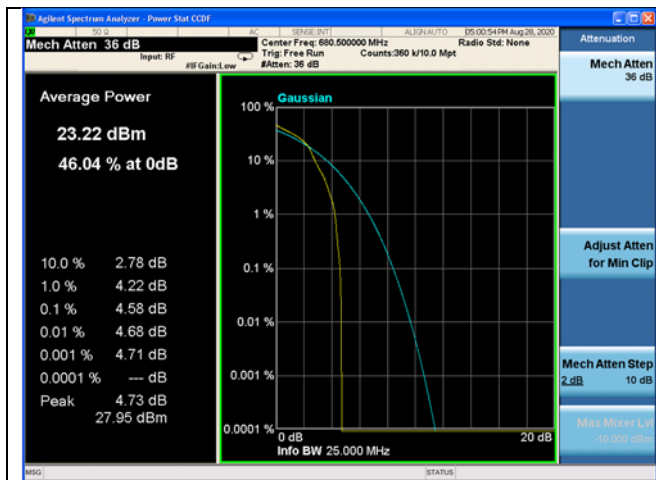


Fig.5

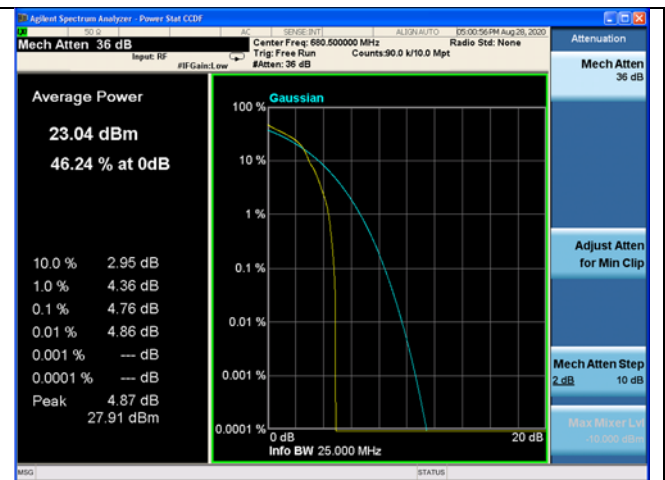


Fig.6

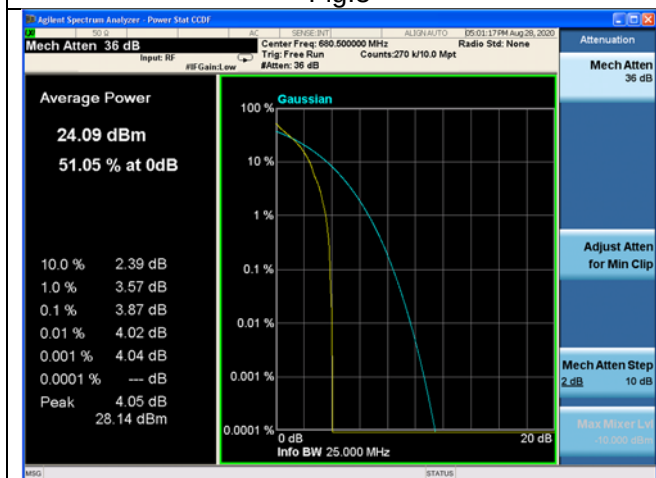


Fig.7

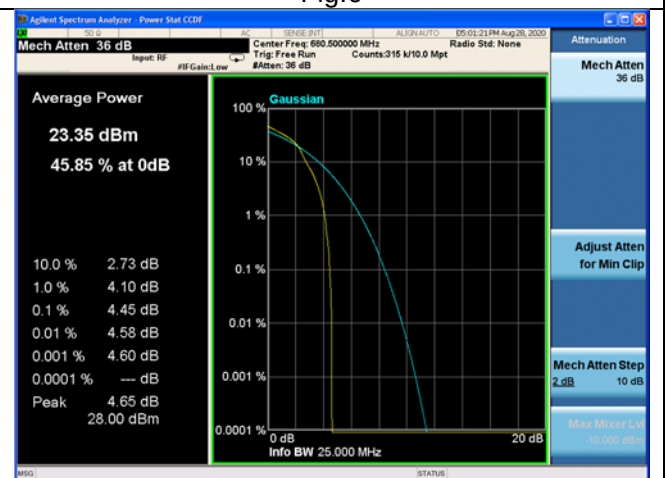


Fig.8

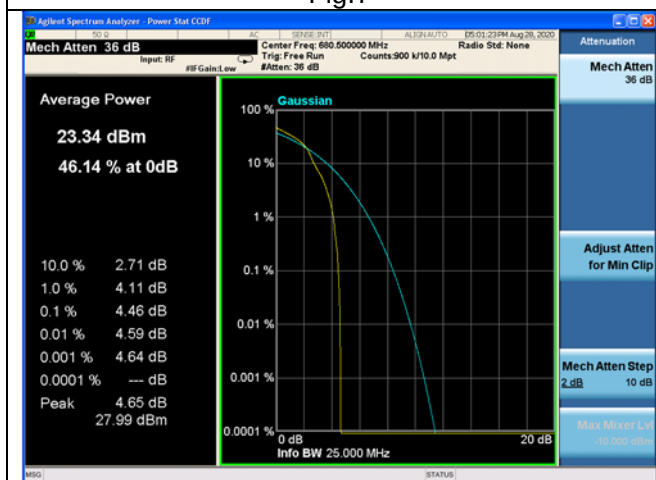


Fig.9

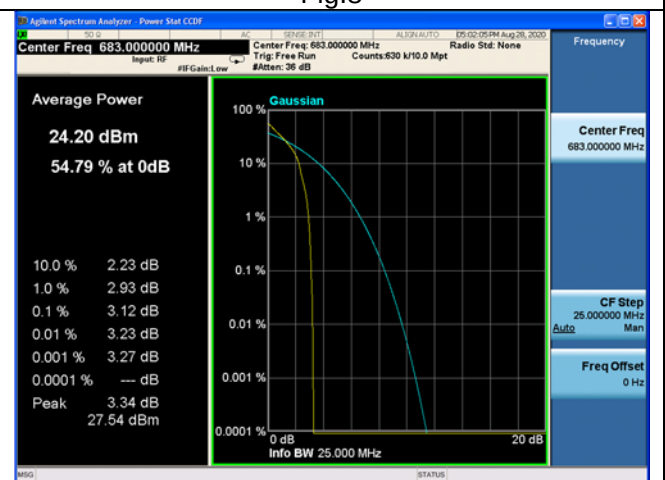


Fig.10

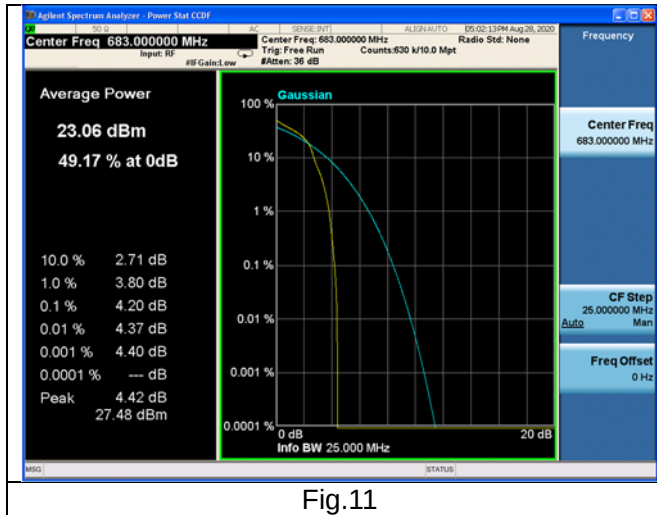


Fig.11

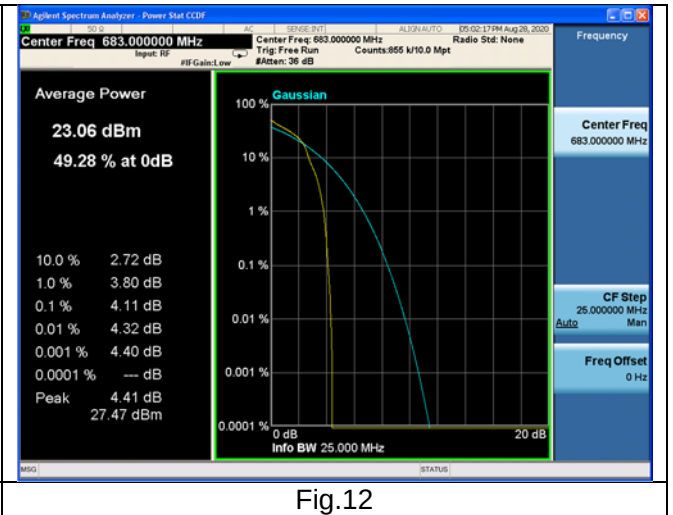


Fig.12

4 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
71	673	133222	20	1	0	Fig.1-2
	683	133322	20	1	0	Fig.3-4
	688	133372	20	1	0	Fig.5-6

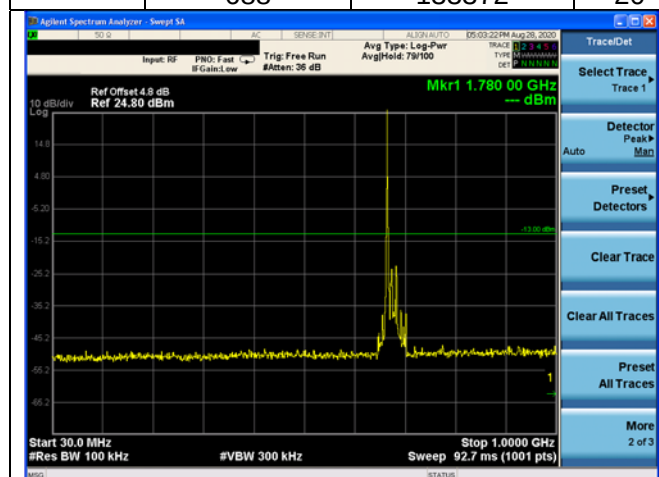


Fig.1

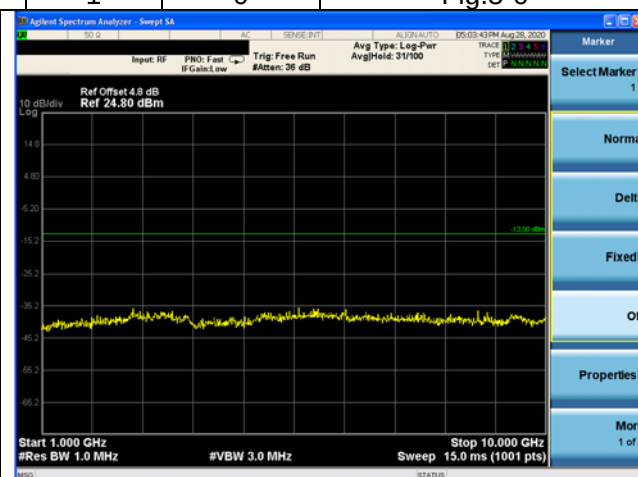


Fig.2

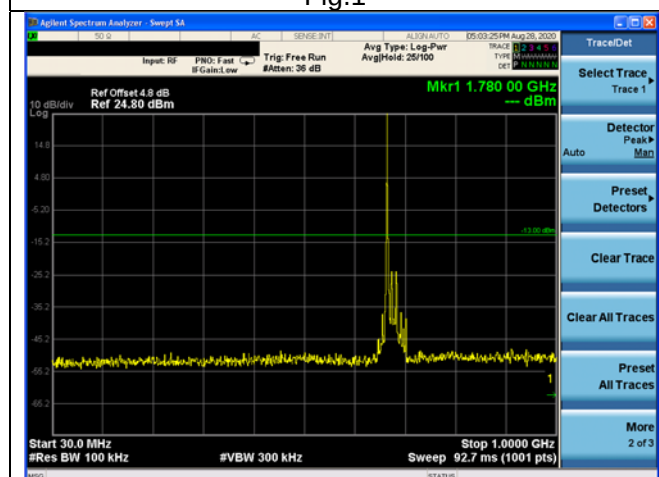


Fig3

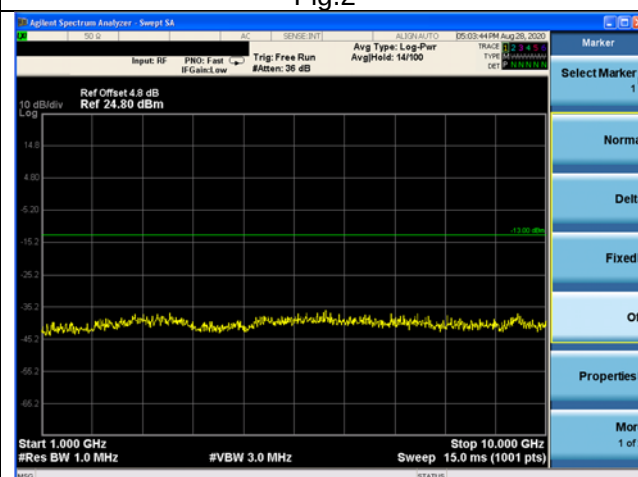


Fig4

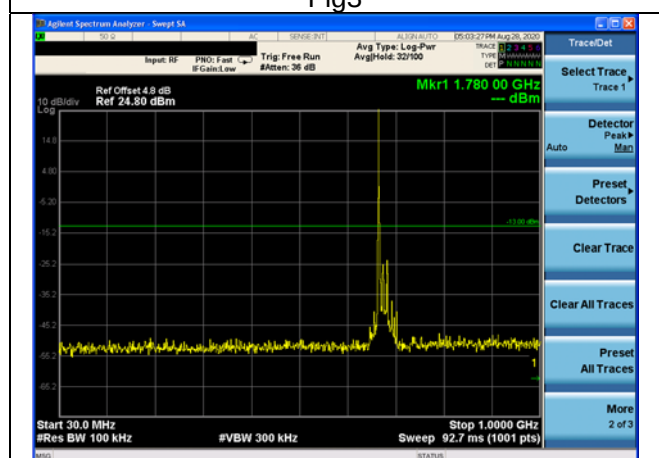


Fig5

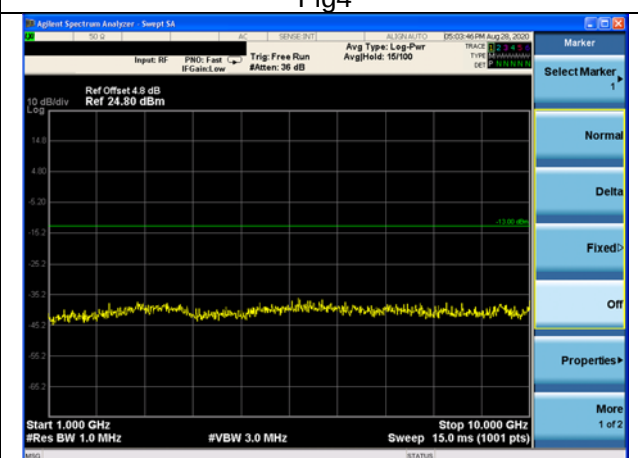


Fig6

5 Band Edges Compliance

Test result

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
71	665.5	133147	5	1	0	Fig.1
				25	0	Fig.2
	695.5	133447		1	24	Fig.3
				25	0	Fig.4
	668	133172	10	1	0	Fig.5
				50	0	Fig.6
	693	133422		1	49	Fig.7
				50	0	Fig.8
	670.5	133197	15	1	0	Fig.9
				75	0	Fig.10
	690.5	133397		1	74	Fig.11
				75	0	Fig.12
	673	133222	20	1	0	Fig.13
				100	0	Fig.14
	688	133372		1	99	Fig.15
				100	0	Fig.16

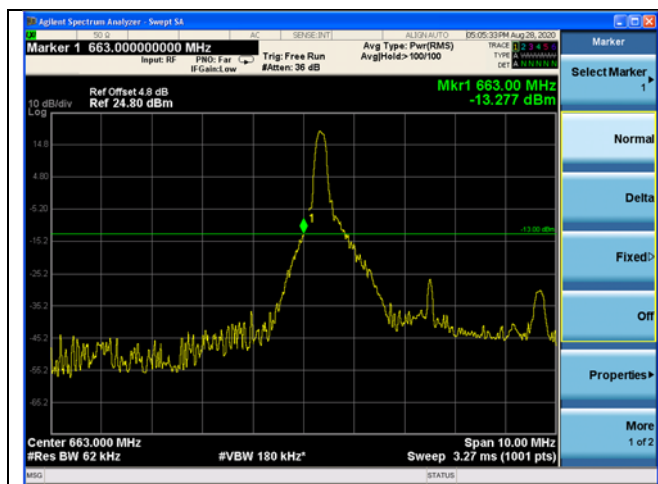


Fig.1

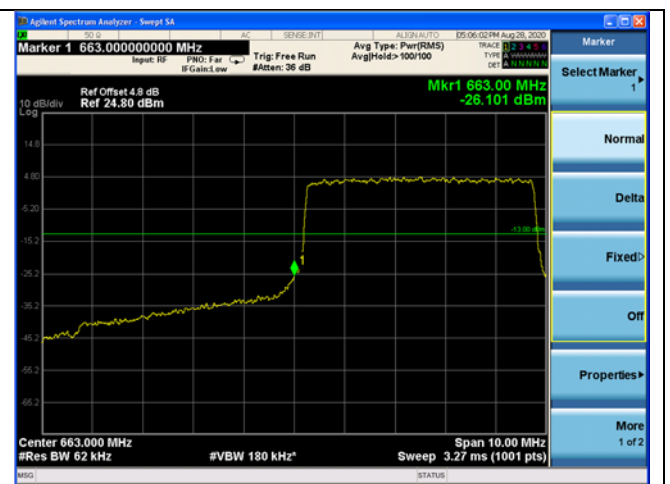


Fig.2

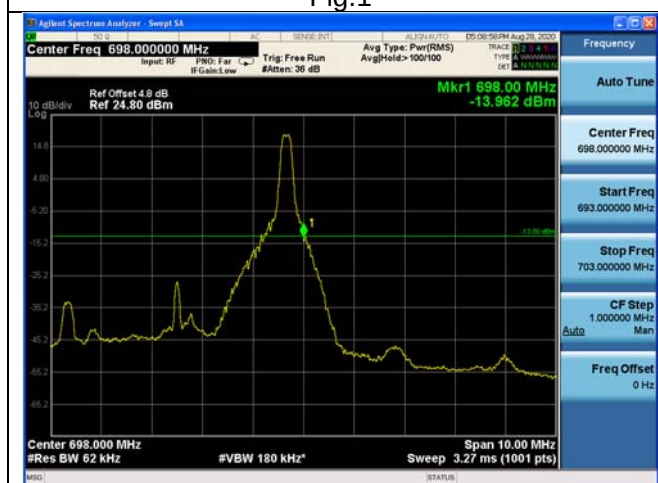


Fig.3



Fig.4

The State Radio_monitoring_center Testing Center (SRTC)

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V3.0.0

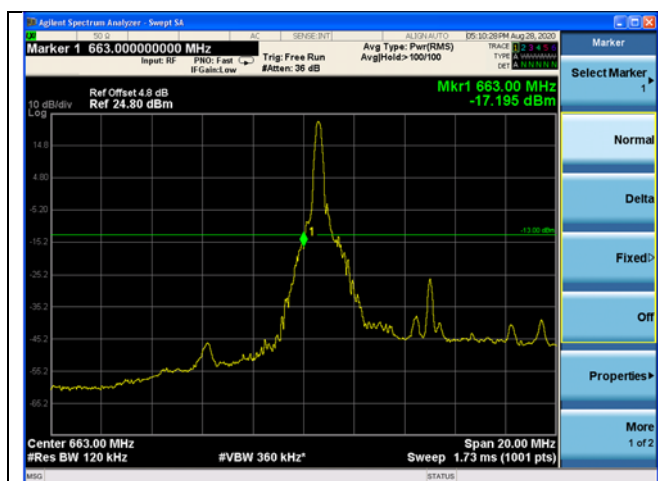


Fig.5

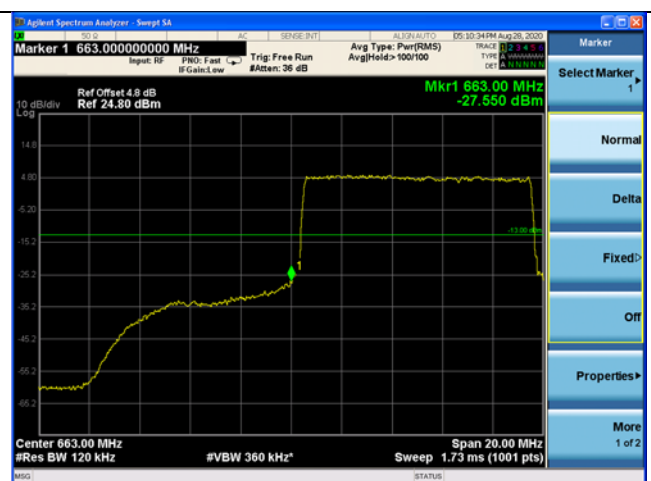


Fig.6

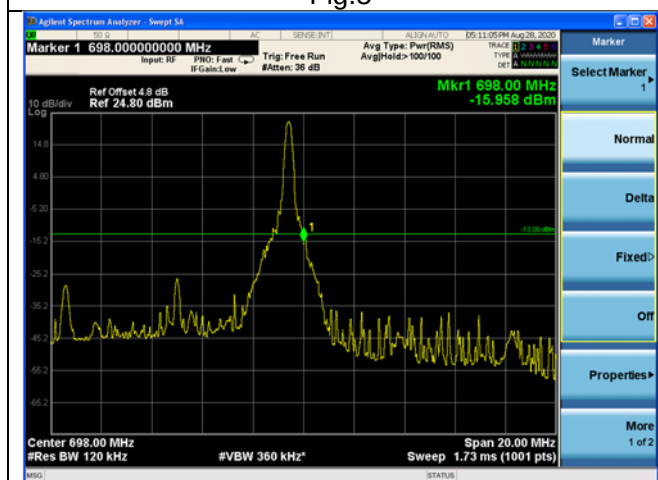


Fig.7

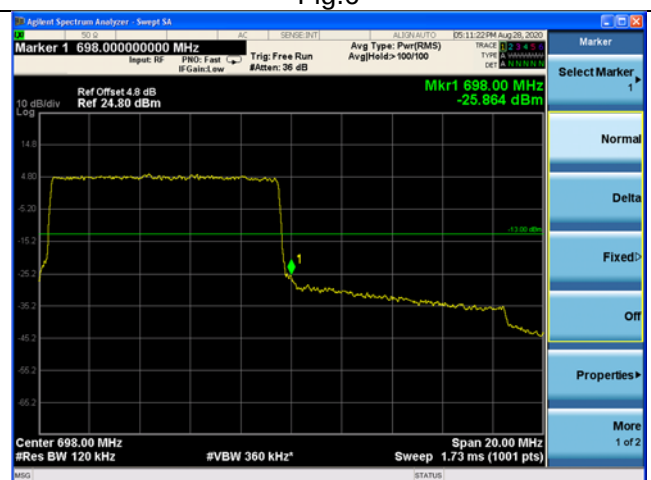


Fig.8

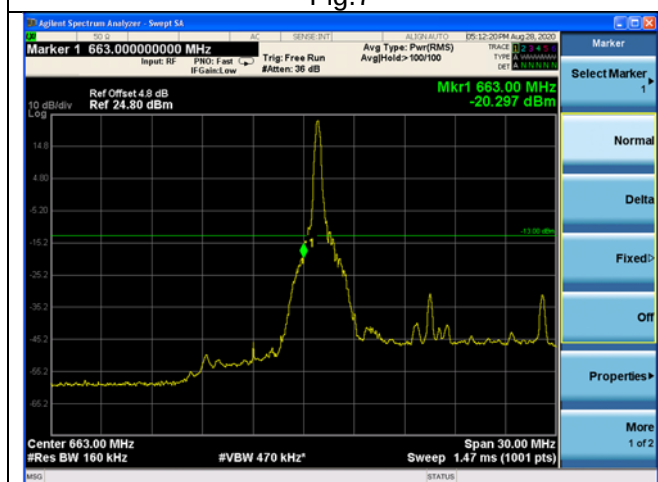


Fig.9

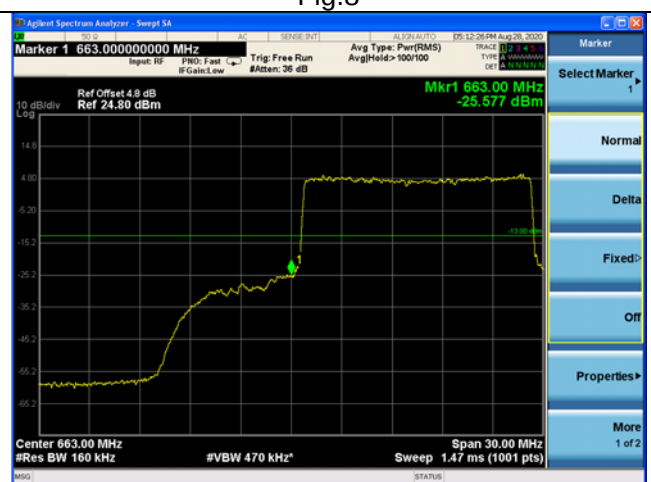


Fig.10

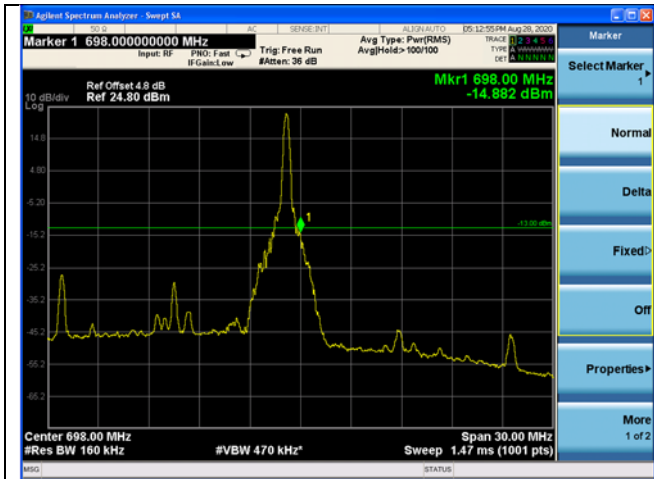


Fig.11

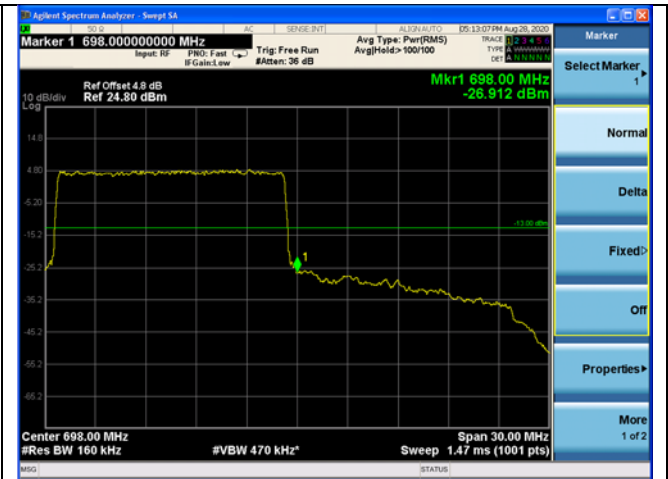


Fig.12

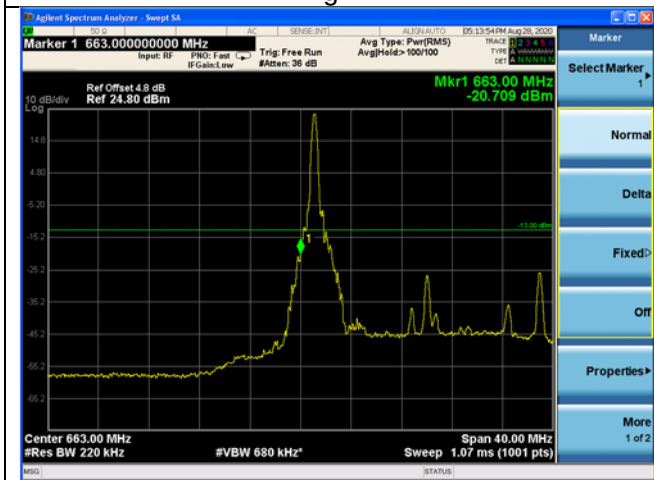


Fig.13

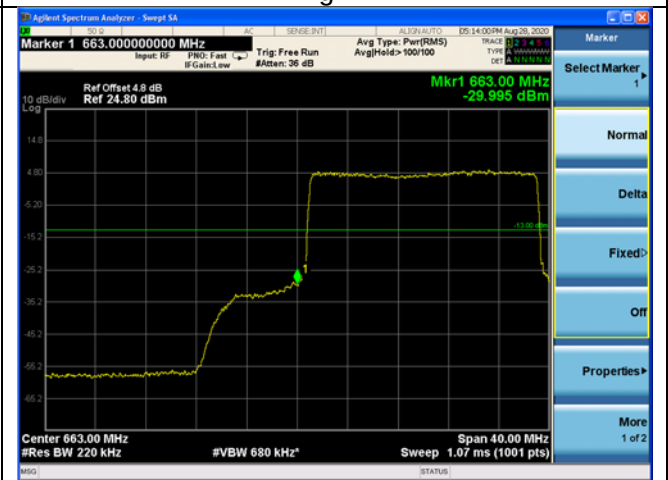


Fig.14

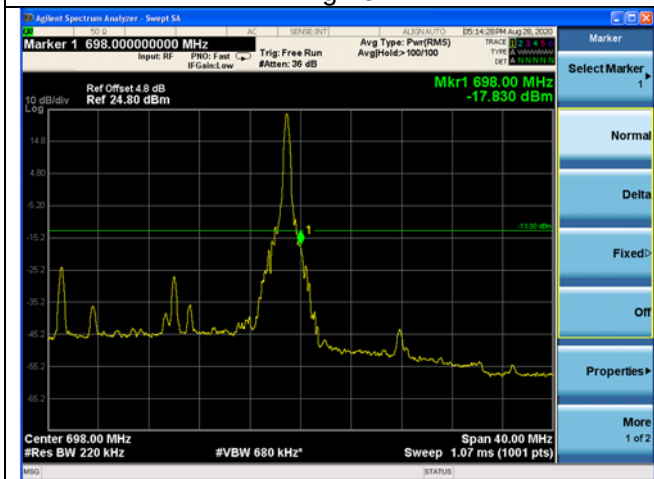


Fig.15

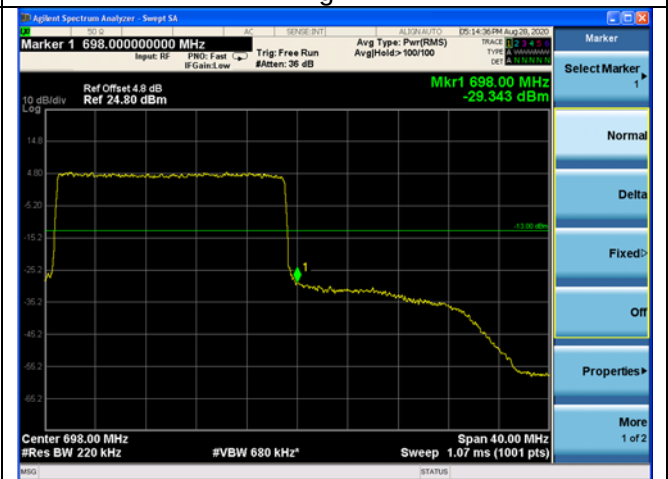


Fig.16

6 Frequency Stability

Test result:

Temperature(°C)	Voltage	Test Result (ppm) Band71 Low Channel			
		5M	10M	15M	20M
-10	NV	-0.090	0.098	0.083	-0.052
0	NV	0.015	-0.085	0.039	0.087
+10	NV	-0.055	-0.031	0.041	-0.096
+20	NV	0.000	0.000	0.000	0.000
+30	NV	-0.015	-0.054	0.028	0.027
+40	NV	0.076	0.056	0.002	0.002
+50	NV	0.074	-0.081	-0.040	-0.058
+55	NV	0.028	-0.095	-0.008	-0.005
+20	LV	-0.094	0.067	0.017	0.032
+20	HV	-0.035	0.020	0.077	0.000

Temperature(°C)	Voltage	Test Result (ppm) Band71 High Channel			
		5M	10M	15M	20M
-10	NV	0.040	0.082	-0.059	-0.038
0	NV	0.024	0.058	0.047	-0.019
+10	NV	-0.066	-0.065	-0.050	-0.059
+20	NV	0.000	0.000	0.000	0.000
+30	NV	-0.039	0.053	0.055	-0.006
+40	NV	-0.040	-0.037	-0.066	-0.068
+50	NV	-0.022	-0.032	0.048	-0.072
+55	NV	0.097	0.065	-0.047	-0.051
+20	LV	-0.042	-0.022	-0.044	0.080
+20	HV	0.036	0.040	0.033	-0.098