

5 Band Edges Compliance Test result

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
5	824.7	20407	1.4	1	0	Fig.1
				6	0	Fig.2
	848.3	20643		1	5	Fig.3
				6	0	Fig.4
	825.5	20415	3	1	0	Fig.5
				15	0	Fig.6
	847.5	20635		1	14	Fig.7
				15	0	Fig.8
	826.5	20425	5	1	0	Fig.9
				25	0	Fig.10
	846.5	20625		1	24	Fig.11
				25	0	Fig.12
	829	20450	10	1	0	Fig.13
				50	0	Fig.14
	844	20600		1	49	Fig.15
				50	0	Fig.16

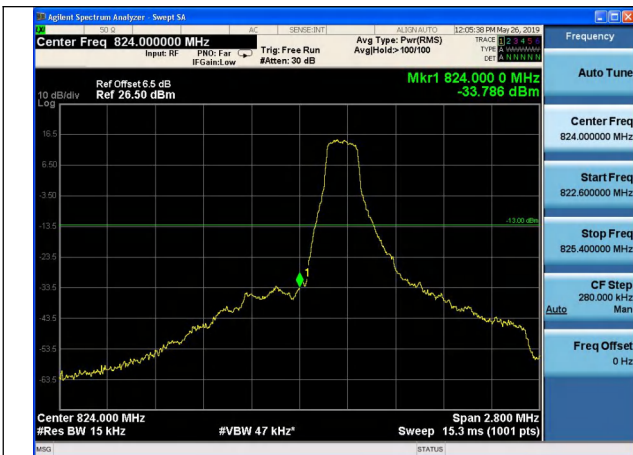


Fig.1

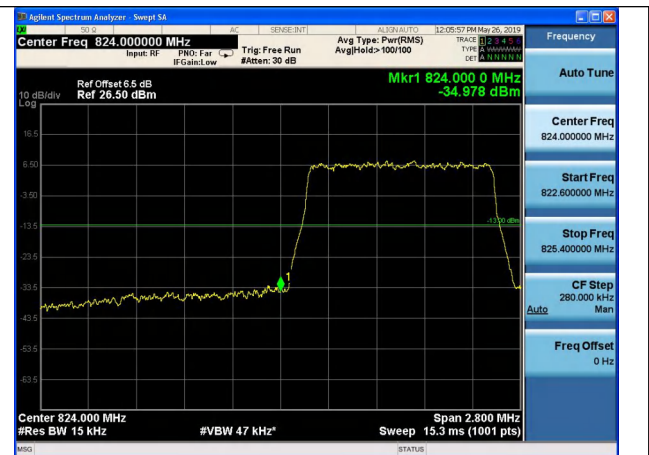


Fig.2

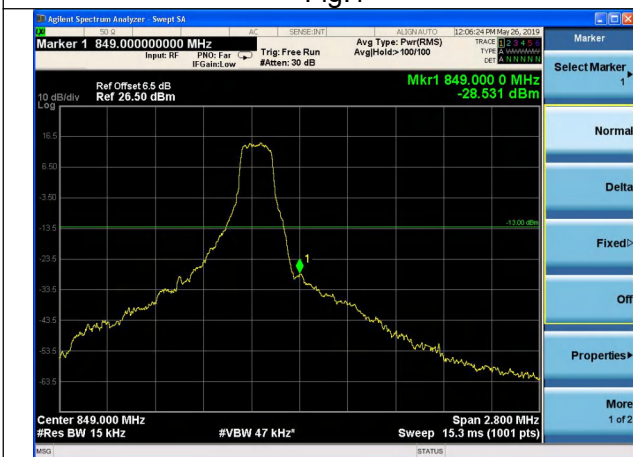


Fig.3



Fig.4

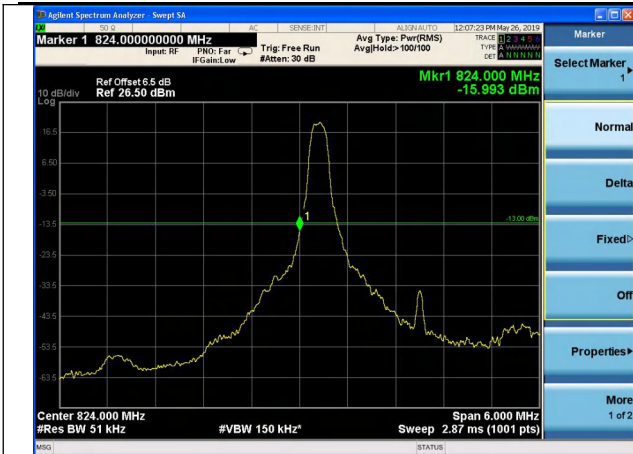


Fig.5

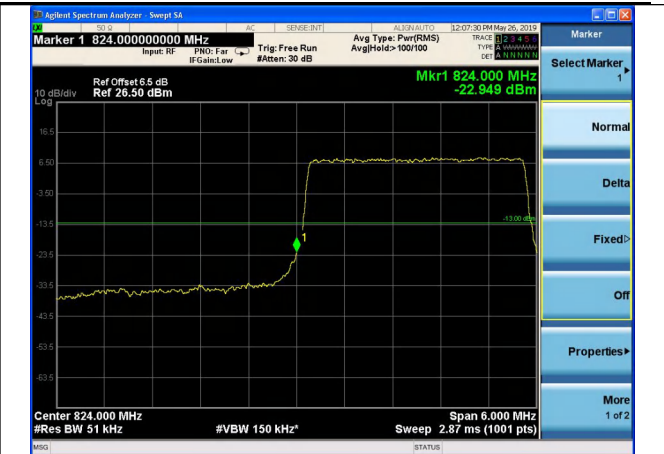


Fig.6

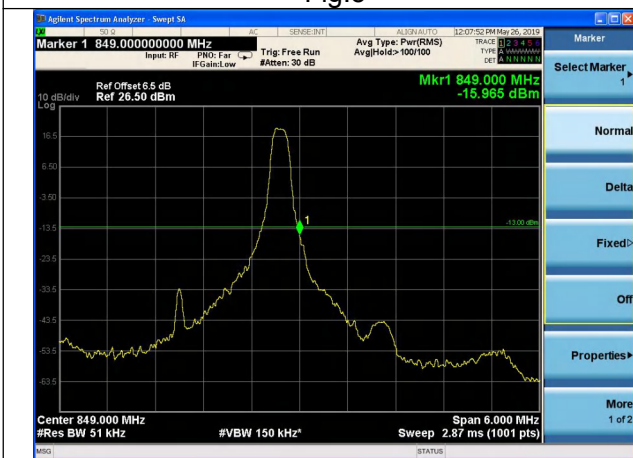


Fig.7

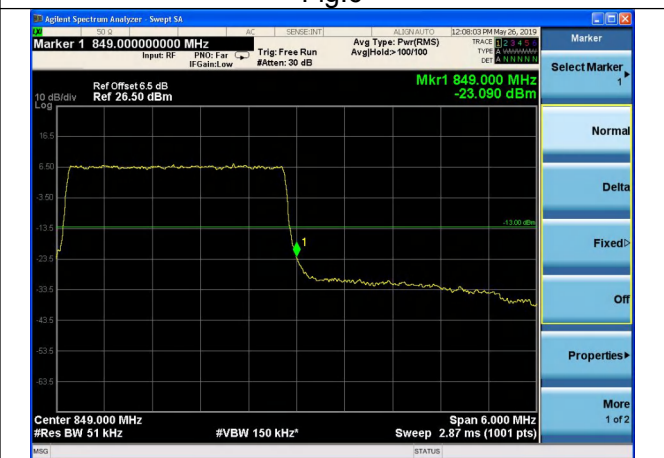


Fig.8

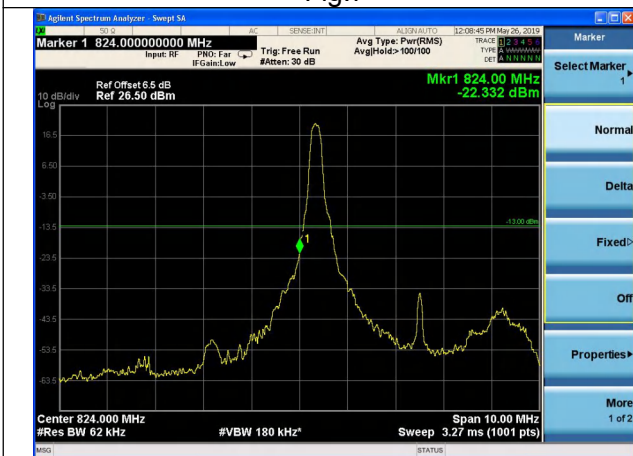


Fig.9

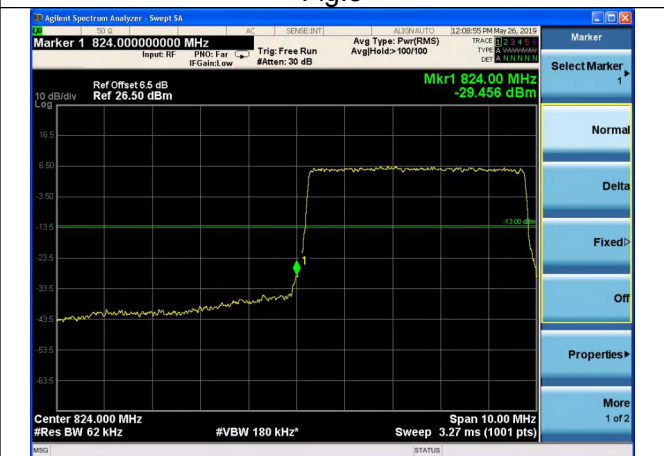


Fig.10

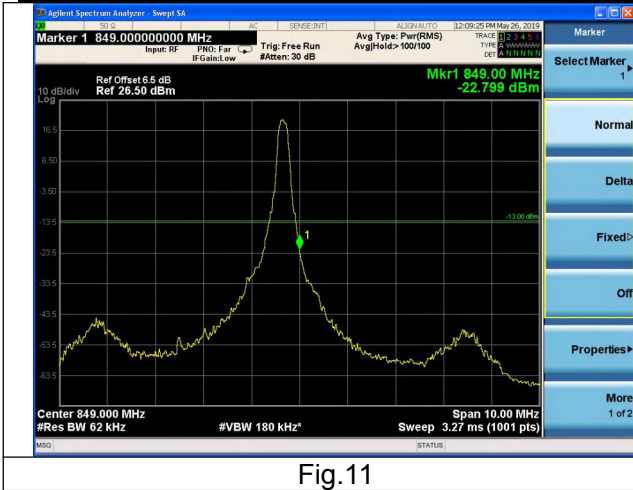


Fig. 11

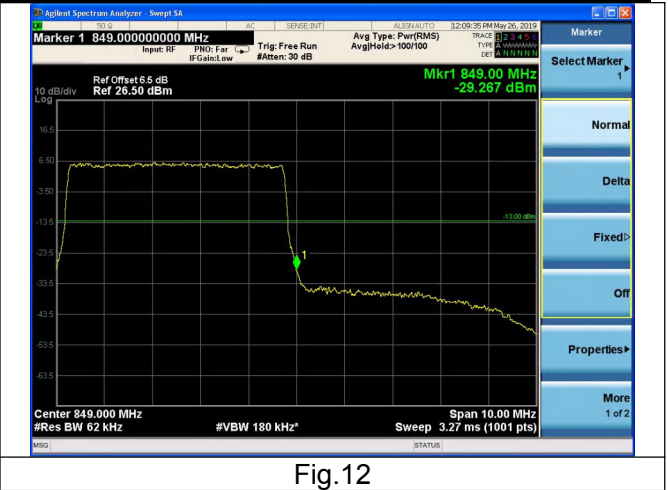


Fig. 12

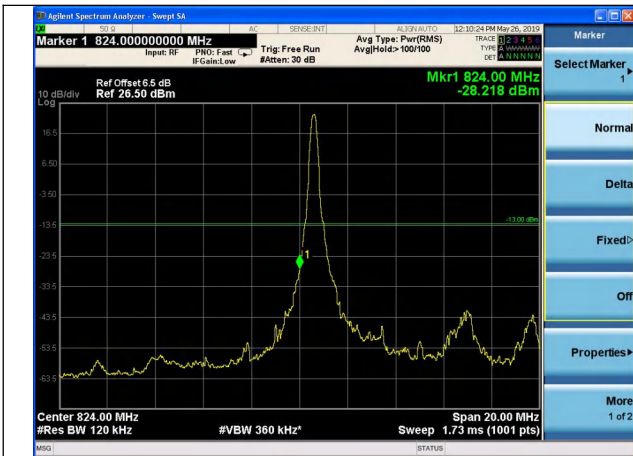


Fig. 13

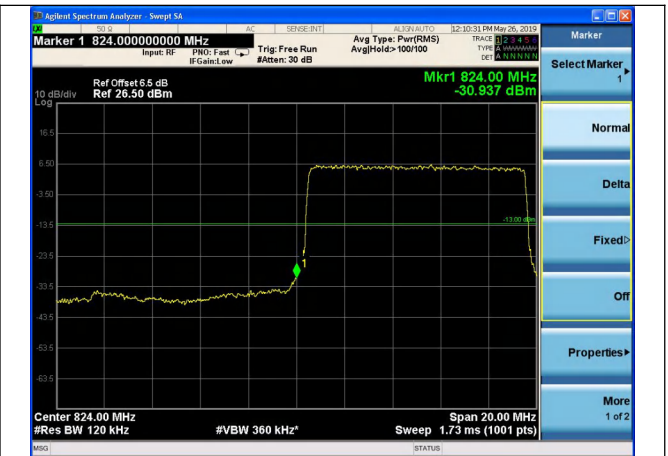


Fig. 14

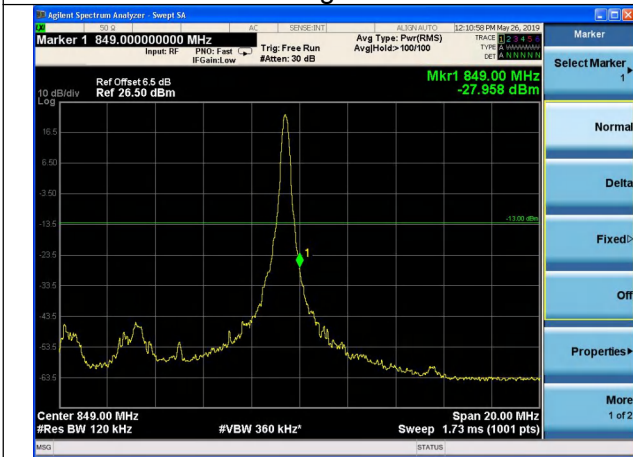


Fig. 15



Fig. 16

6 Frequency Stability

Test result:

Temperature(°C)	Voltage	Test Result (ppm) Band5 Low Channel			
		1.4M	3M	5M	10M
-10	NV	0.022	0.018	0.020	0.044
0	NV	0.044	0.020	0.030	0.086
+10	NV	0.022	0.042	0.072	0.036
+20	NV	0.007	0.094	0.080	0.072
+30	NV	0.008	0.070	0.084	0.072
+40	NV	0.048	0.010	0.016	0.059
+50	NV	0.075	0.034	0.061	0.003
+55	NV	0.051	0.078	0.078	0.075
+20	LV	0.090	0.069	0.021	0.072
+20	HV	0.067	0.082	0.054	0.004

Temperature(°C)	Voltage	Test Result (ppm) Band5 High Channel			
		1.4M	3M	5M	10M
-10	NV	0.038	0.053	0.043	0.010
0	NV	0.077	0.073	0.004	0.013
+10	NV	0.030	0.010	0.066	0.067
+20	NV	0.003	0.001	0.012	0.025
+30	NV	0.032	0.080	0.058	0.074
+40	NV	0.014	0.060	0.077	0.083
+50	NV	0.028	0.082	0.072	0.076
+55	NV	0.085	0.074	0.092	0.060
+20	LV	0.055	0.070	0.096	0.053
+20	HV	0.009	0.078	0.007	0.025

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 7

1 RF Power Output up Ant

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2502.5	20775	5	1	0	18.15
				1	24	18.15
				12	6	17.37
				25	0	17.31
	2535	21100		1	0	18.02
				1	24	18.02
				12	6	17.09
				25	0	17.16
	2567.5	21425		1	0	17.95
				1	24	17.95
				12	6	17.14
				25	0	17.07
16QAM	2502.5	20775	5	1	0	17.93
				1	24	17.93
				12	6	16.19
				25	0	16.04
	2535	21100		1	0	17.91
				1	24	17.91
				12	6	16.17
				25	0	16.11
	2567.5	21425		1	0	17.68
				1	24	17.68
				12	6	16.17
				25	0	16.08
64QAM	2502.5	20775	5	1	0	17.91
				1	24	17.91
				12	6	16.16
				25	0	16.02
	2535	21100		1	0	17.83
				1	24	17.82
				12	6	16.08
				25	0	15.94
	2567.5	21425		1	0	17.65
				1	24	17.65
				12	6	16.12
				25	0	15.97

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2505	20800	10	1	0	18.19
				1	49	18.19
				24	12	17.41
				50	0	17.35
	2535	21100		1	0	18.06
				1	49	18.06
				24	12	17.13
				50	0	17.20
	2565	21400		1	0	17.99
				1	49	17.99
				24	12	17.18
				50	0	17.11
16QAM	2505	20800	10	1	0	17.97
				1	49	17.97
				24	12	16.23
				50	0	16.08
	2535	21100		1	0	17.95
				1	49	17.95
				24	12	16.21
				50	0	16.15
	2565	21400		1	0	17.72
				1	49	17.72
				24	12	16.21
				50	0	16.12
64QAM	2505	20800	10	1	0	17.95
				1	49	17.95
				24	12	16.20
				50	0	16.06
	2535	21100		1	0	17.87
				1	49	17.86
				24	12	16.12
				50	0	15.98
	2565	21400		1	0	17.69
				1	49	17.69
				24	12	16.16
				50	0	16.01

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2507.5	20825	15	1	0	18.23
				1	74	18.23
				40	18	17.45
				75	0	17.39
	2535	21100		1	0	18.10
				1	74	18.10
				40	18	17.17
				75	0	17.24
	2562.5	21375		1	0	18.03
				1	74	18.03
				40	18	17.22
				75	0	17.15
16QAM	2507.5	20825	15	1	0	18.01
				1	74	18.01
				40	18	16.27
				75	0	16.12
	2535	21100		1	0	17.99
				1	74	17.99
				40	18	16.25
				75	0	16.19
	2562.5	21375		1	0	17.76
				1	74	17.76
				40	18	16.25
				75	0	16.16
64QAM	2507.5	20825	15	1	0	17.99
				1	74	17.99
				40	18	16.24
				75	0	16.10
	2535	21100		1	0	17.91
				1	74	17.90
				40	18	16.16
				75	0	16.02
	2562.5	21375		1	0	17.73
				1	74	17.73
				40	18	16.20
				75	0	16.05

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2510	20850	20	1	0	18.27
				1	99	18.27
				50	25	17.49
				100	0	17.43
	2535	21100		1	0	18.14
				1	99	18.14
				50	25	17.21
				100	0	17.28
	2560	21350		1	0	18.07
				1	99	18.07
				50	25	17.26
				100	0	17.19
16QAM	2510	20850	20	1	0	18.05
				1	99	18.05
				50	25	16.31
				100	0	16.16
	2535	21100		1	0	18.03
				1	99	18.03
				50	25	16.29
				100	0	16.23
	2560	21350		1	0	17.80
				1	99	17.80
				50	25	16.29
				100	0	16.20
64QAM	2510	20850	20	1	0	18.03
				1	99	18.03
				50	25	16.28
				100	0	16.14
	2535	21100		1	0	17.95
				1	99	17.94
				50	25	16.20
				100	0	16.06
	2560	21350		1	0	17.77
				1	99	17.77
				50	25	16.24
				100	0	16.09

1 RF Power Output down Ant

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2502.5	20775	5	1	0	24.27
				1	24	24.27
				12	6	23.49
				25	0	23.43
	2535	21100		1	0	24.14
				1	24	24.14
				12	6	23.21
	2567.5	21425		25	0	23.28
				1	0	24.07
1			24	24.07		
16QAM	2502.5	20775	5	12	6	23.26
				25	0	23.19
				1	0	24.05
				1	24	24.05
	2535	21100		12	6	22.31
				25	0	22.16
				1	0	24.03
	2567.5	21425		1	24	24.03
				12	6	22.29
25			0	22.23		
64QAM	2502.5	20775	5	1	0	23.80
				1	24	23.80
				12	6	22.29
				25	0	22.20
	2535	21100		1	0	24.03
				1	24	24.03
				12	6	22.28
	2567.5	21425		25	0	22.14
				1	0	23.95
1			24	23.94		
2502.5	20775	5	12	6	22.20	
			25	0	22.06	
			1	0	23.77	
			1	24	23.77	
2535	21100		12	6	22.24	
			25	0	22.09	
			1	0	23.77	
2567.5	21425		1	24	23.77	
			12	6	22.24	
		25	0	22.09		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2505	20800	10	1	0	24.34
				1	49	24.34
				24	12	23.56
				50	0	23.50
	2535	21100		1	0	24.21
				1	49	24.21
				24	12	23.28
				50	0	23.35
	2565	21400		1	0	24.14
				1	49	24.14
				24	12	23.33
				50	0	23.26
16QAM	2505	20800	10	1	0	24.12
				1	49	24.12
				24	12	22.38
				50	0	22.23
	2535	21100		1	0	24.10
				1	49	24.10
				24	12	22.36
				50	0	22.30
	2565	21400		1	0	23.87
				1	49	23.87
				24	12	22.36
				50	0	22.27
64QAM	2505	20800	10	1	0	24.10
				1	49	24.10
				24	12	22.35
				50	0	22.21
	2535	21100		1	0	24.02
				1	49	24.01
				24	12	22.27
				50	0	22.13
	2565	21400		1	0	23.84
				1	49	23.84
				24	12	22.31
				50	0	22.16

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2507.5	20825	15	1	0	24.37
				1	74	24.37
				40	18	23.59
				75	0	23.53
	2535	21100		1	0	24.24
				1	74	24.24
				40	18	23.31
				75	0	23.38
	2562.5	21375		1	0	24.17
				1	74	24.17
				40	18	23.36
				75	0	23.29
16QAM	2507.5	20825	15	1	0	24.15
				1	74	24.15
				40	18	22.41
				75	0	22.26
	2535	21100		1	0	24.13
				1	74	24.13
				40	18	22.39
				75	0	22.33
	2562.5	21375		1	0	23.90
				1	74	23.90
				40	18	22.39
				75	0	22.30
64QAM	2507.5	20825	15	1	0	24.13
				1	74	24.13
				40	18	22.38
				75	0	22.24
	2535	21100		1	0	24.05
				1	74	24.04
				40	18	22.30
				75	0	22.16
	2562.5	21375		1	0	23.87
				1	74	23.87
				40	18	22.34
				75	0	22.19

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2510	20850	20	1	0	24.45
				1	99	24.45
				50	25	23.67
				100	0	23.61
	2535	21100		1	0	24.32
				1	99	24.32
				50	25	23.39
				100	0	23.46
	2560	21350		1	0	24.25
				1	99	24.25
				50	25	23.44
				100	0	23.37
16QAM	2510	20850	20	1	0	24.23
				1	99	24.23
				50	25	22.49
				100	0	22.34
	2535	21100		1	0	24.21
				1	99	24.21
				50	25	22.47
				100	0	22.41
	2560	21350		1	0	23.98
				1	99	23.98
				50	25	22.47
				100	0	22.38
64QAM	2510	20850	20	1	0	24.21
				1	99	24.21
				50	25	22.46
				100	0	22.32
	2535	21100		1	0	24.13
				1	99	24.12
				50	25	22.38
				100	0	22.24
	2560	21350		1	0	23.95
				1	99	23.95
				50	25	22.42
				100	0	22.27

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	
7	2502.5	20775	5	25	0	4.48	Fig.1	4.47	Fig.2	4.48	Fig.3
	2535	21100		25	0	4.49	Fig.4	4.49	Fig.5	4.47	Fig.6
	2567.5	21425		25	0	4.48	Fig.7	4.49	Fig.8	4.49	Fig.9
	2505	20800	10	50	0	8.95	Fig.10	8.94	Fig.11	8.93	Fig.12
	2535	21100		50	0	8.94	Fig.13	8.97	Fig.14	8.94	Fig.15
	2565	21400		50	0	8.93	Fig.16	8.94	Fig.17	8.92	Fig.18
	2507.5	20825	15	75	0	13.41	Fig.19	13.47	Fig.20	13.42	Fig.21
	2535	21100		75	0	13.39	Fig.22	13.42	Fig.23	13.43	Fig.24
	2562.5	21375		75	0	13.42	Fig.25	13.43	Fig.26	13.44	Fig.27
	2510	20850	20	100	0	17.89	Fig.28	17.84	Fig.29	17.86	Fig.30
	2535	21100		100	0	17.87	Fig.31	17.85	Fig.32	17.82	Fig.33
	2560	21350		100	0	17.87	Fig.34	17.87	Fig.35	17.88	Fig.36

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
7	2502.5	20775	5	25	0	4.91	Fig.1	4.85	Fig.2	4.89	Fig.3
	2535	21100		25	0	4.87	Fig.4	4.87	Fig.5	4.81	Fig.6
	2567.5	21425		25	0	4.90	Fig.7	4.88	Fig.8	4.81	Fig.9
	2505	20800	10	50	0	9.66	Fig.10	9.62	Fig.11	9.61	Fig.12
	2535	21100		50	0	9.59	Fig.13	9.67	Fig.14	9.62	Fig.15
	2565	21400		50	0	9.64	Fig.16	9.62	Fig.17	9.56	Fig.18
	2507.5	20825	15	75	0	14.48	Fig.19	14.48	Fig.20	14.32	Fig.21
	2535	21100		75	0	14.41	Fig.22	14.31	Fig.23	14.23	Fig.24
	2562.5	21375		75	0	14.52	Fig.25	14.37	Fig.26	14.22	Fig.27
	2510	20850	20	100	0	19.20	Fig.28	19.08	Fig.29	19.10	Fig.30
	2535	21100		100	0	18.93	Fig.31	18.97	Fig.32	19.22	Fig.33
	2560	21350		100	0	19.18	Fig.34	19.18	Fig.35	19.26	Fig.36

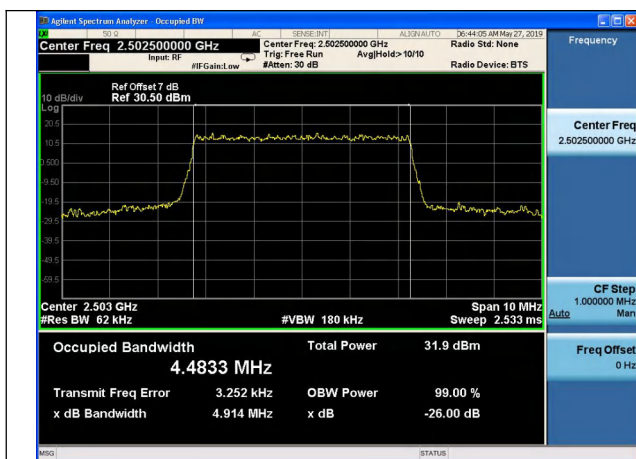


Fig.1

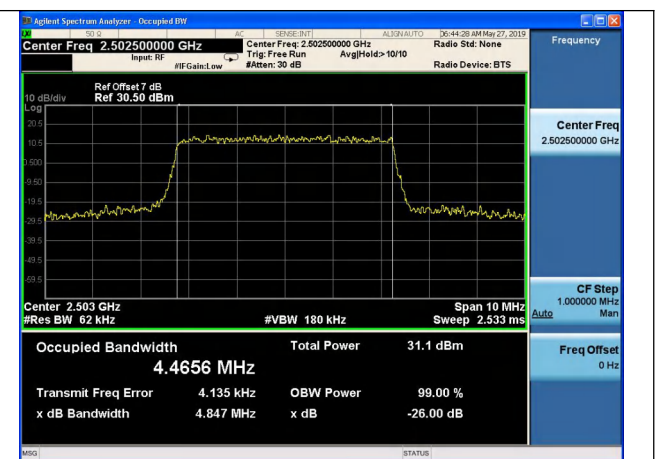


Fig.2

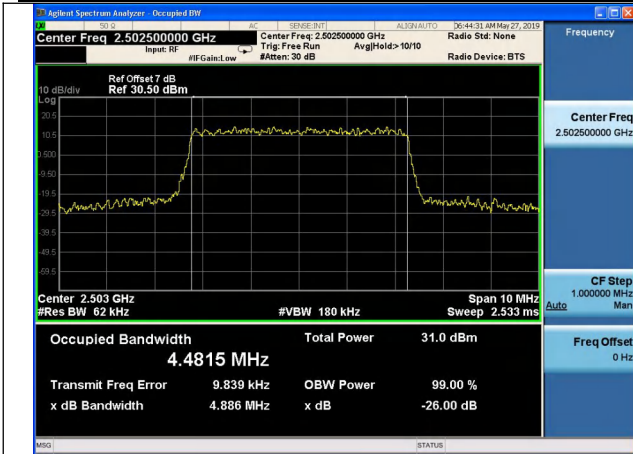


Fig.3

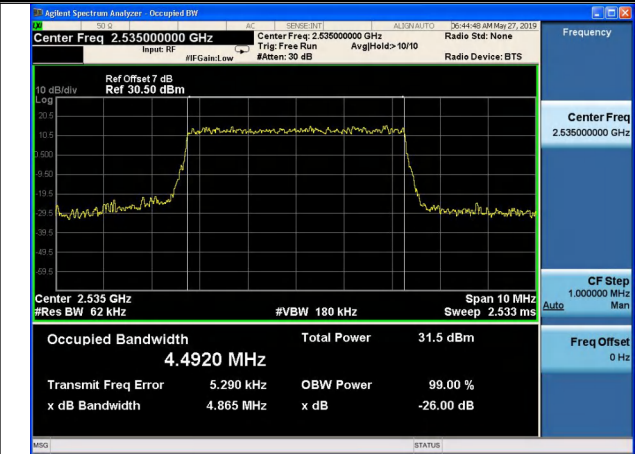


Fig.4

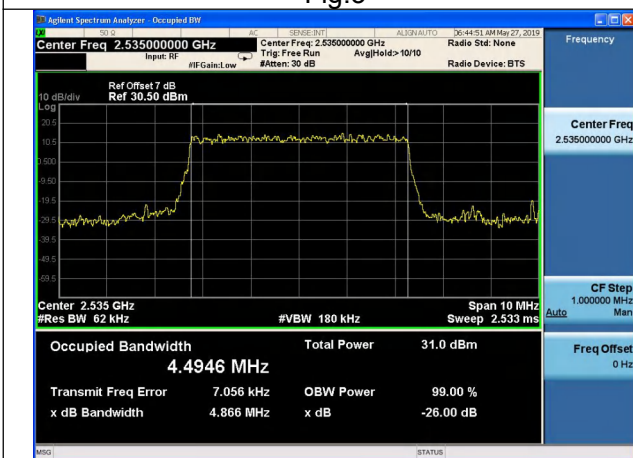


Fig.5

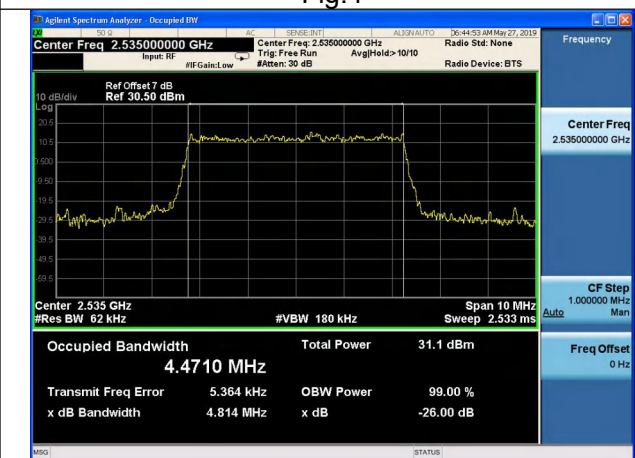


Fig.6

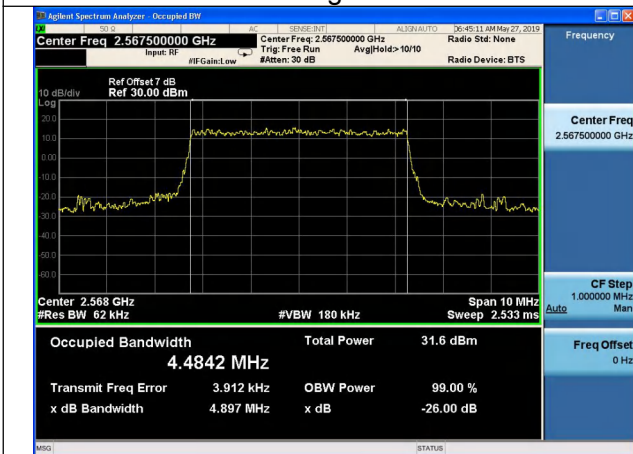


Fig.7

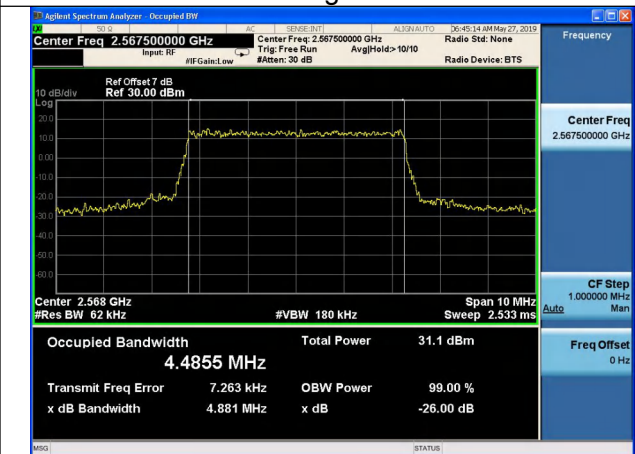


Fig.8

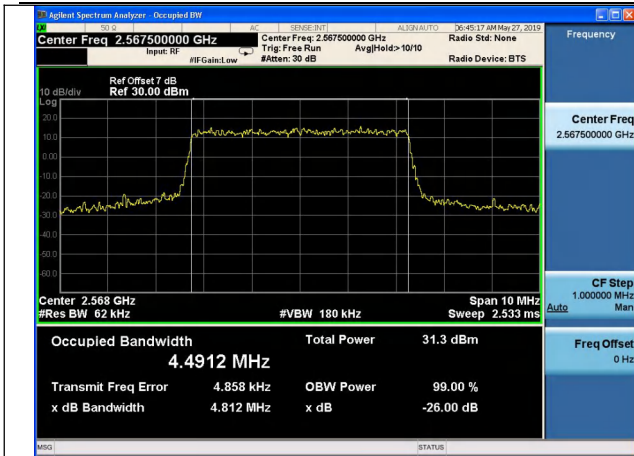


Fig.9



Fig.10

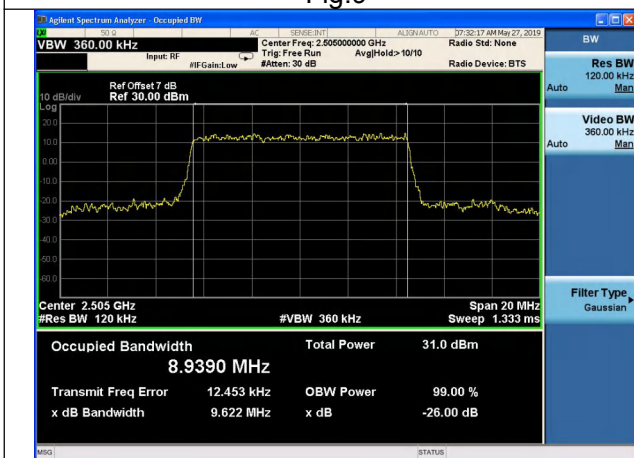


Fig.11

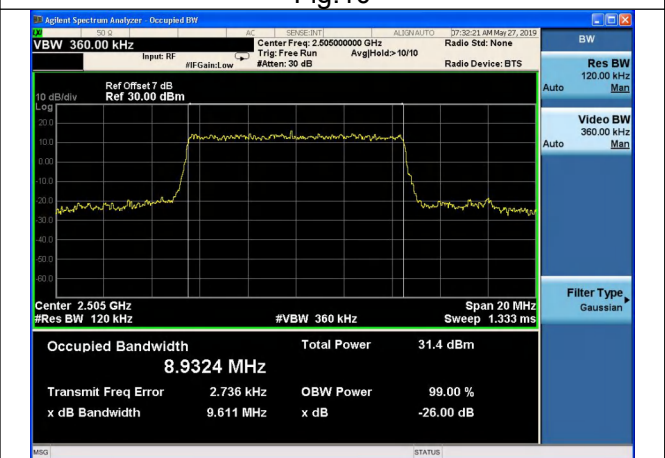


Fig.12

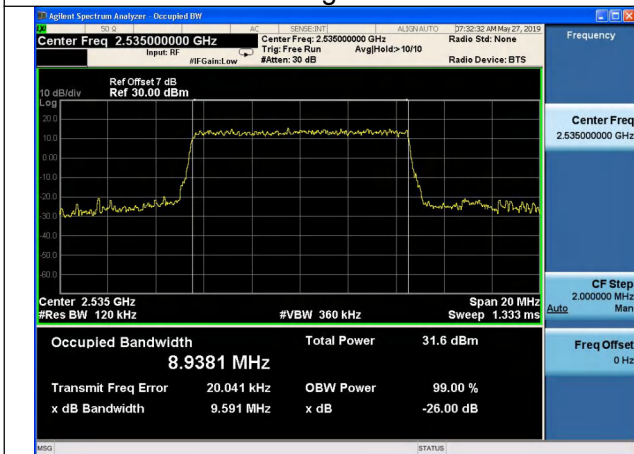


Fig.13

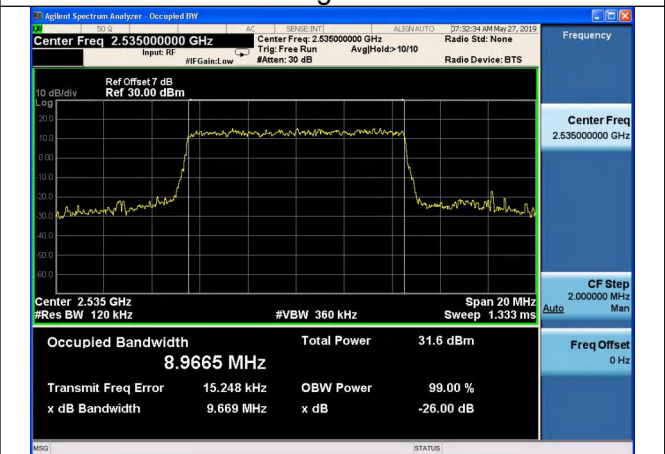


Fig.14

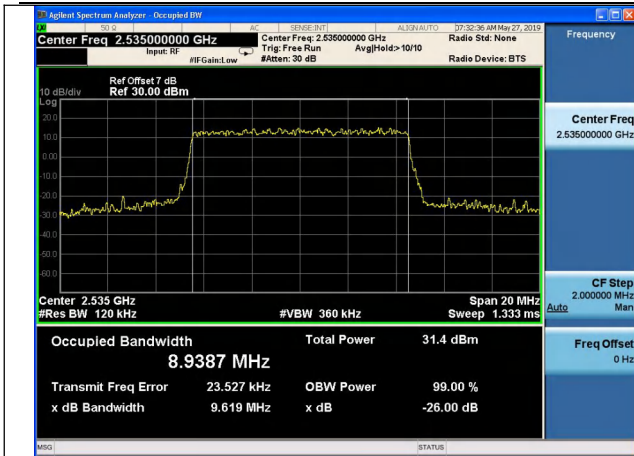


Fig.15

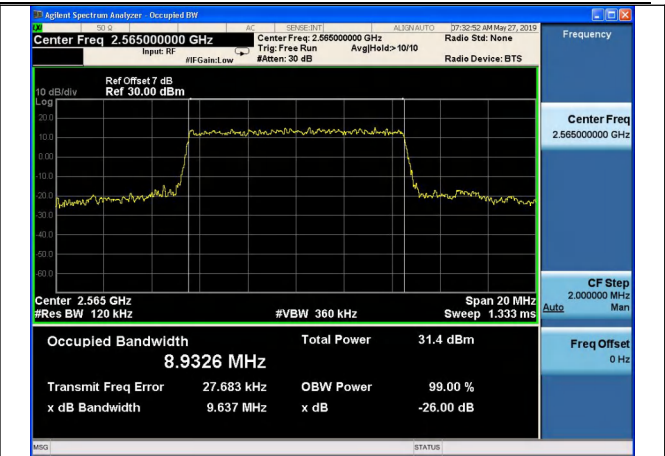


Fig.16

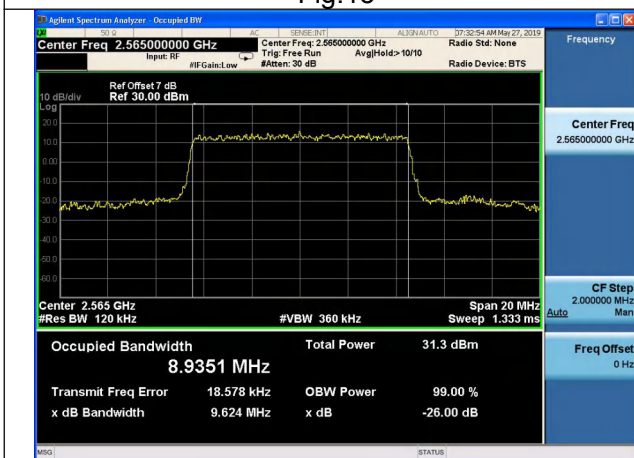


Fig.17

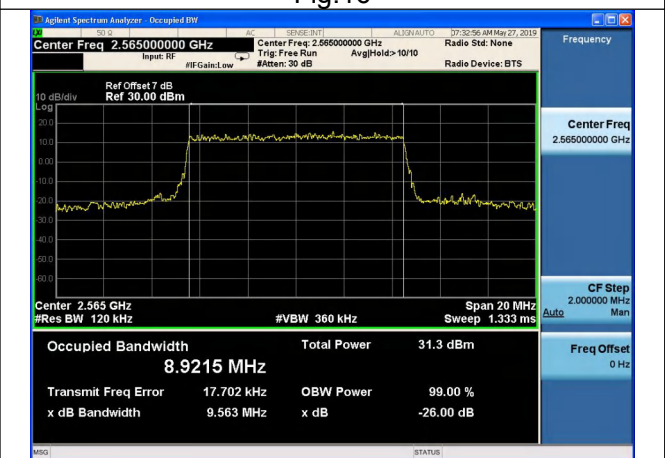


Fig.18

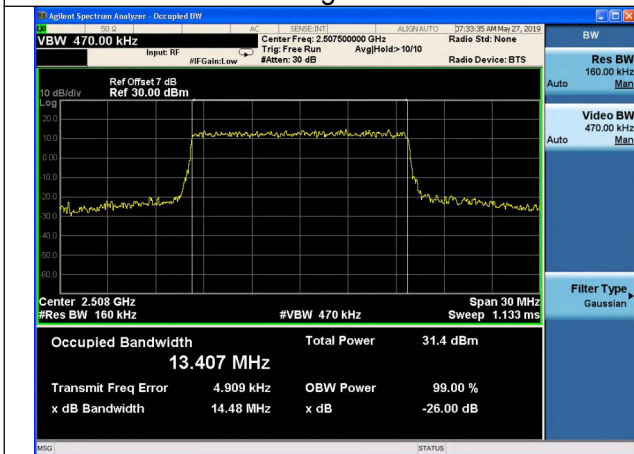


Fig.19

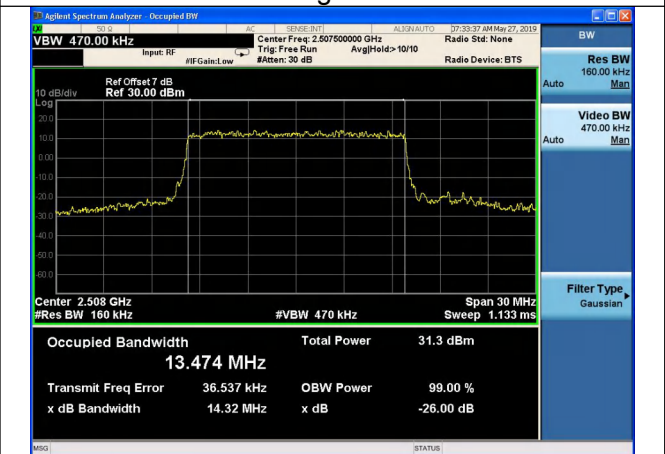
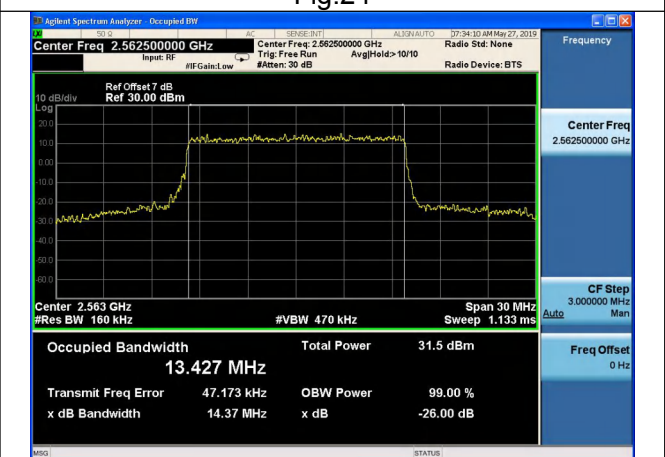
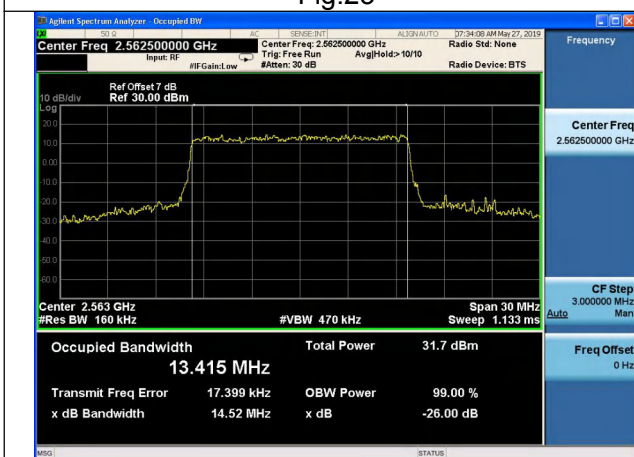
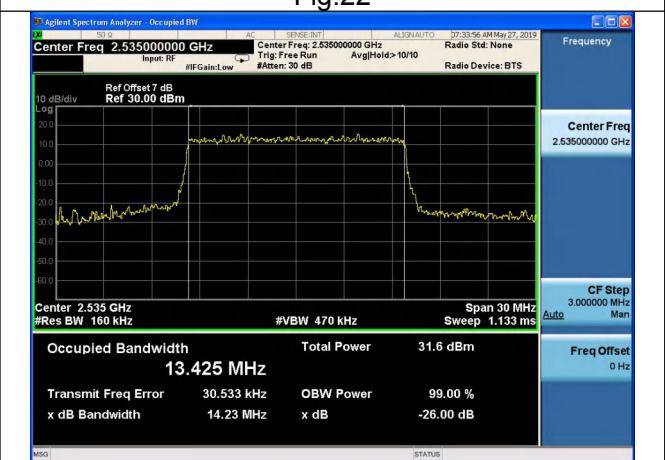
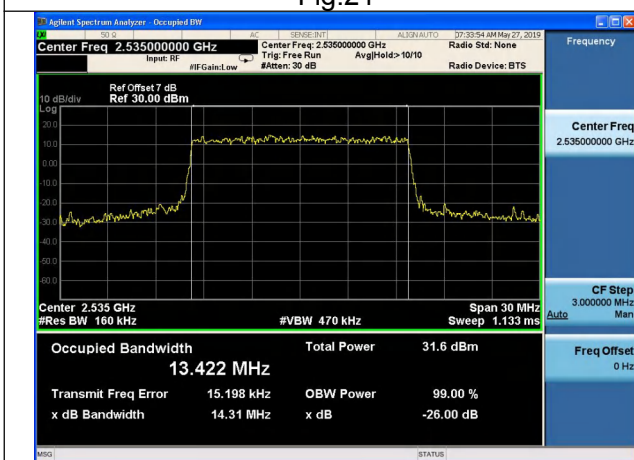
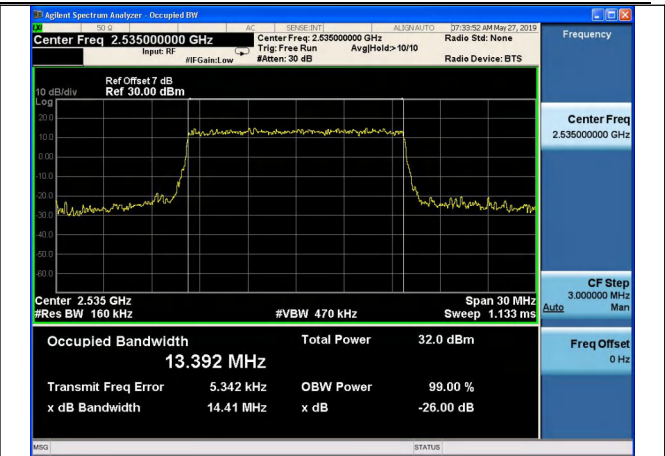
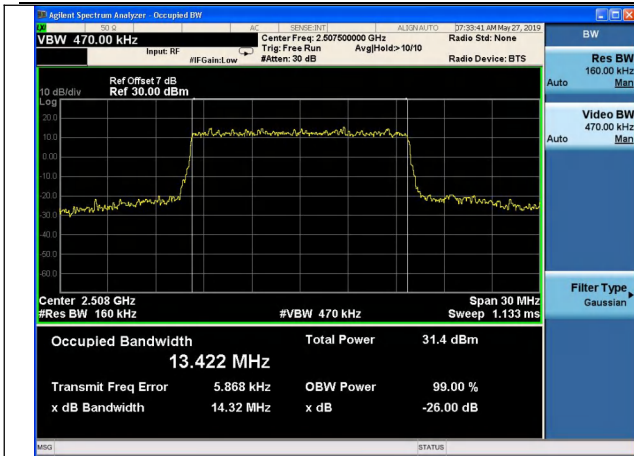


Fig.20



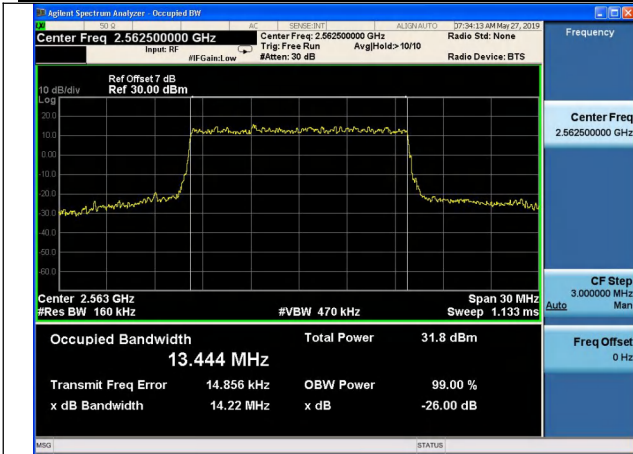


Fig.27



Fig.28

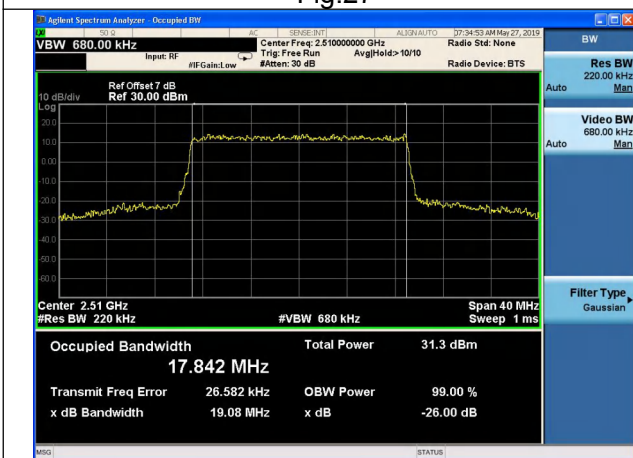


Fig.29

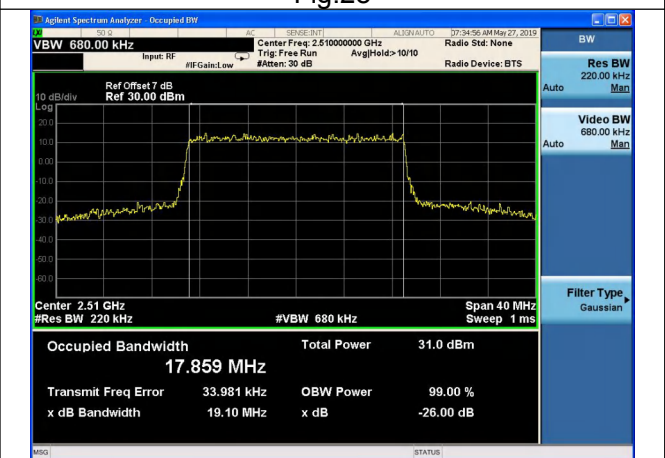


Fig.30

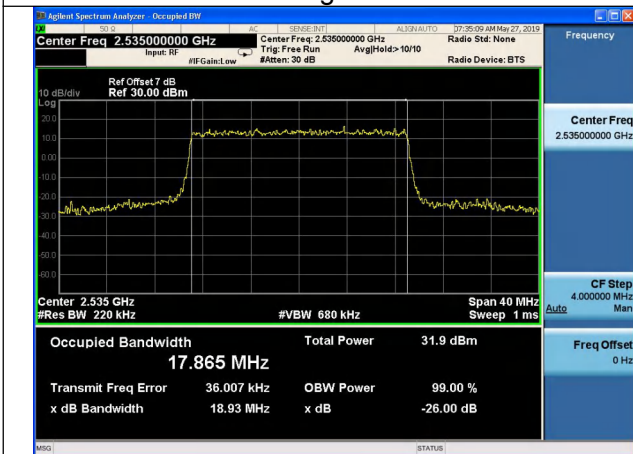


Fig.31

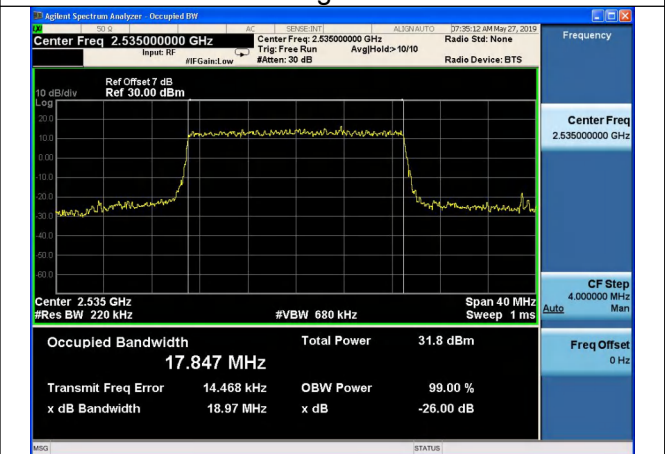


Fig.32

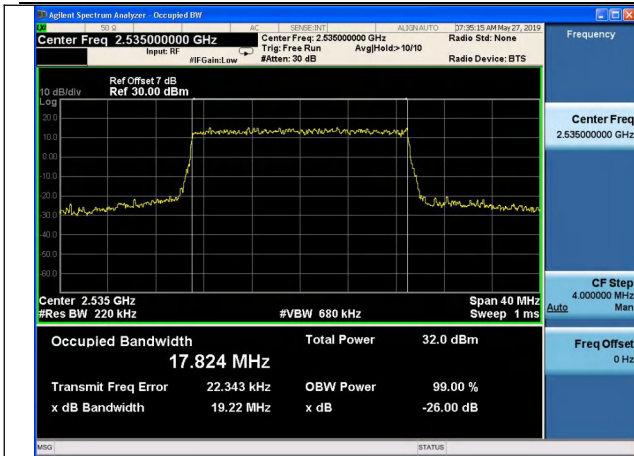


Fig.33



Fig.34

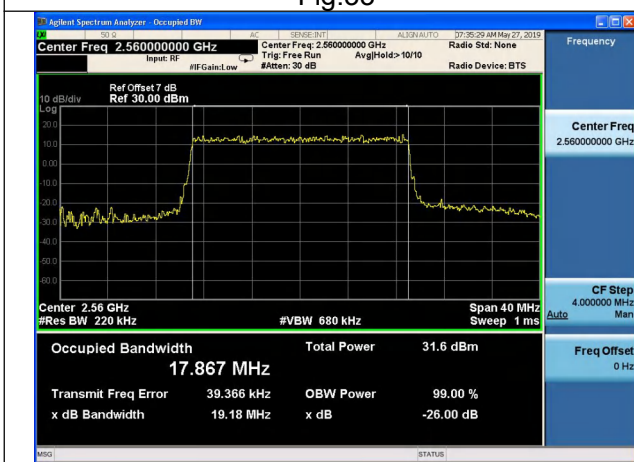


Fig.35

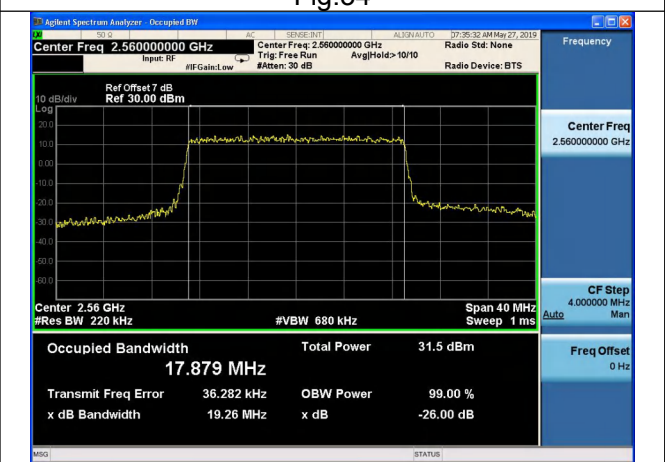


Fig.36

3 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
7	2535	21100	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
			20	1	0	Fig.10	Fig.11	Fig.12

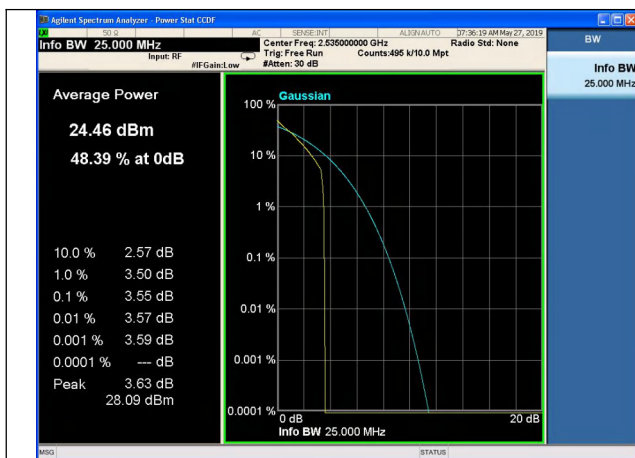


Fig.1

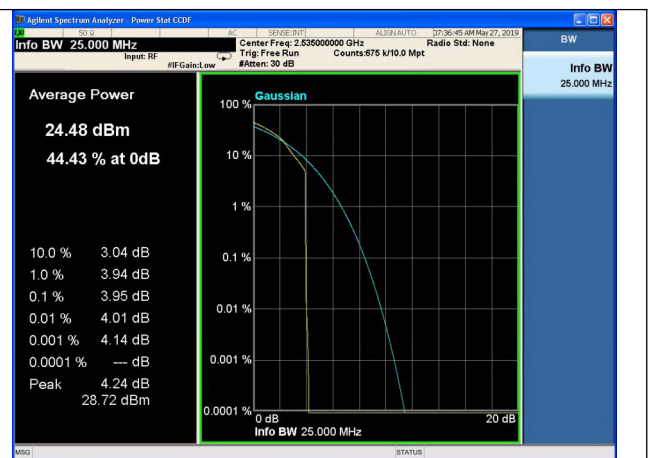


Fig.2

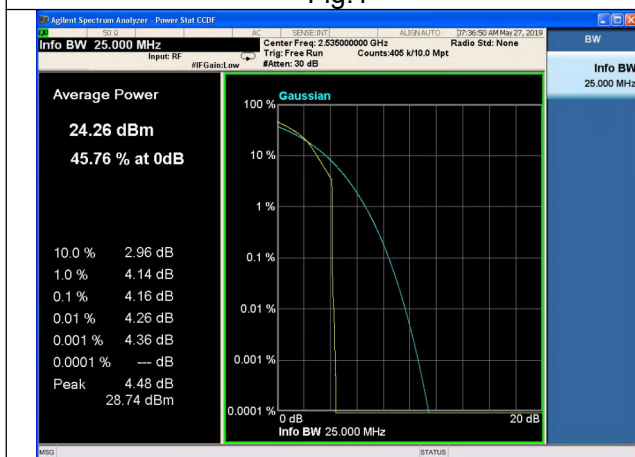


Fig.3

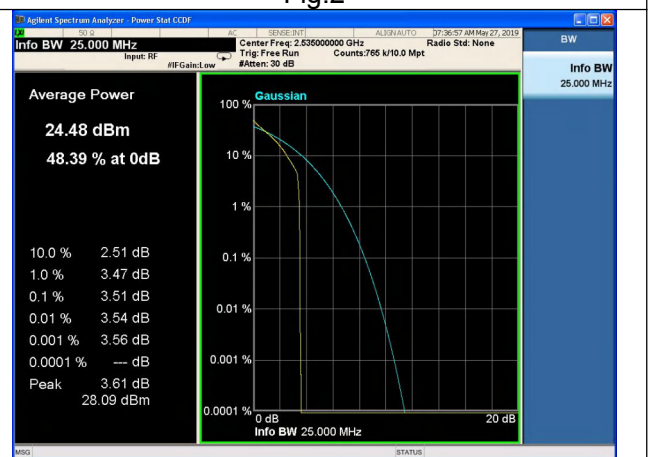


Fig.4