

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 4

1 RF Power Output

Antenna Gain=-1.5dBi

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1710.7	19957	1.4	1	0	22.50
				1	5	22.50
				3	2	22.18
				6	0	22.16
	1732.5	20175		1	0	22.56
				1	5	22.56
				3	2	22.21
				6	0	22.17
	1754.3	20393		1	0	22.56
				1	5	22.56
				3	2	22.25
				6	0	22.19
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1710.7	19957	1.4	1	0	22.40
				1	5	22.40
				3	2	21.50
				6	0	21.41
	1732.5	20175		1	0	22.43
				1	5	22.43
				3	2	21.37
				6	0	21.33
	1754.3	20393		1	0	22.46
				1	5	22.46
				3	2	21.39
				6	0	21.35
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1710.7	19957	1.4	1	0	22.36
				1	5	22.36
				3	2	21.31
				6	0	21.29
	1732.5	20175		1	0	22.36
				1	5	22.36
				3	2	21.33
				6	0	21.27
	1754.3	20393		1	0	22.38
				1	5	22.38
				3	2	21.30
				6	0	21.27

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1711.5	19965	3	1	0	22.54
				1	14	22.54
				8	4	22.22
				15	0	22.20
	1732.5	20175		1	0	22.63
				1	14	22.63
				8	4	22.28
				15	0	22.24
	1753.5	20385		1	0	22.62
				1	14	22.62
				8	4	22.31
				15	0	22.25
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1711.5	19965	3	1	0	22.44
				1	14	22.44
				8	4	21.54
				15	0	21.45
	1732.5	20175		1	0	22.50
				1	14	22.50
				8	4	21.44
				15	0	21.40
	1753.5	20385		1	0	22.52
				1	14	22.52
				8	4	21.45
				15	0	21.41
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1711.5	19965	3	1	0	22.40
				1	14	22.40
				8	4	21.35
				15	0	21.33
	1732.5	20175		1	0	22.43
				1	14	22.43
				8	4	21.40
				15	0	21.34
	1753.5	20385		1	0	22.44
				1	14	22.44
				8	4	21.36
				15	0	21.33

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1712.5	19975	5	1	0	22.65
				1	24	22.65
				12	6	22.33
				25	0	22.31
	1732.5	20175		1	0	22.69
				1	24	22.69
				12	6	22.34
				25	0	22.30
	1752.5	20375		1	0	22.66
				1	24	22.66
				12	6	22.35
				25	0	22.29
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1712.5	19975	5	1	0	22.55
				1	24	22.55
				12	6	21.65
				25	0	21.56
	1732.5	20175		1	0	22.56
				1	24	22.56
				12	6	21.50
				25	0	21.46
	1752.5	20375		1	0	22.56
				1	24	22.56
				12	6	21.49
				25	0	21.45
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1712.5	19975	5	1	0	22.51
				1	24	22.51
				12	6	21.46
				25	0	21.44
	1732.5	20175		1	0	22.49
				1	24	22.49
				12	6	21.46
				25	0	21.40
	1752.5	20375		1	0	22.48
				1	24	22.48
				12	6	21.40
				25	0	21.37

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1715	20000	10	1	0	22.70
				1	49	22.70
				24	12	22.38
				50	0	22.36
	1732.5	20175		1	0	22.74
				1	49	22.74
				24	12	22.39
				50	0	22.35
	1750	20350		1	0	22.76
				1	49	22.76
				24	12	22.45
				50	0	22.39
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1715	20000	10	1	0	22.60
				1	49	22.60
				24	12	21.70
				50	0	21.61
	1732.5	20175		1	0	22.61
				1	49	22.61
				24	12	21.55
				50	0	21.51
	1750	20350		1	0	22.66
				1	49	22.66
				24	12	21.59
				50	0	21.55
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1715	20000	10	1	0	22.56
				1	49	22.56
				24	12	21.51
				50	0	21.49
	1732.5	20175		1	0	22.54
				1	49	22.54
				24	12	21.51
				50	0	21.45
	1750	20350		1	0	22.58
				1	49	22.58
				24	12	21.50
				50	0	21.47

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1717.5	20025	15	1	0	22.75
				1	74	22.75
				40	18	22.43
				75	0	22.41
	1732.5	20175		1	0	22.73
				1	74	22.73
				40	18	22.38
				75	0	22.34
	1747.5	20325		1	0	22.80
				1	74	22.80
				40	18	22.49
				75	0	22.43
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1717.5	20025	15	1	0	22.65
				1	74	22.65
				40	18	21.75
				75	0	21.66
	1732.5	20175		1	0	22.60
				1	74	22.60
				40	18	21.54
				75	0	21.50
	1747.5	20325		1	0	22.70
				1	74	22.70
				40	18	21.63
				75	0	21.59
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1717.5	20025	15	1	0	22.61
				1	74	22.61
				40	18	21.56
				75	0	21.54
	1732.5	20175		1	0	22.53
				1	74	22.53
				40	18	21.50
				75	0	21.44
	1747.5	20325		1	0	22.62
				1	74	22.62
				40	18	21.54
				75	0	21.51

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1720	20050	20	1	0	22.87
				1	99	22.87
				50	25	22.55
				100	0	22.53
	1732.5	20175		1	0	22.88
				1	99	22.88
				50	25	22.53
				100	0	22.49
	1745	20300		1	0	22.89
				1	99	22.89
				50	25	22.58
				100	0	22.52
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1720	20050	20	1	0	22.77
				1	99	22.77
				50	25	21.87
				100	0	21.78
	1732.5	20175		1	0	22.75
				1	99	22.75
				50	25	21.69
				100	0	21.65
	1745	20300		1	0	22.79
				1	99	22.79
				50	25	21.72
				100	0	21.68
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1720	20050	20	1	0	22.73
				1	99	22.73
				50	25	21.68
				100	0	21.66
	1732.5	20175		1	0	22.68
				1	99	22.68
				50	25	21.65
				100	0	21.59
	1745	20300		1	0	22.71
				1	99	22.71
				50	25	21.63
				100	0	21.60

2 Occupied Bandwidth

Test result

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
4	1710.7	19957	1.4	6	0	1.1029	Fig.1	1.1010	Fig.2	1.1009	Fig.3
4	1732.5	20175	1.4	6	0	1.1019	Fig.4	1.0990	Fig.5	1.1048	Fig.6
4	1754.3	20393	1.4	6	0	1.1040	Fig.7	1.1004	Fig.8	1.1019	Fig.9

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
4	1710.7	19957	1.4	6	0	1.336	Fig.1	1.339	Fig.2	1.305	Fig.3
4	1732.5	20175	1.4	6	0	1.322	Fig.4	1.325	Fig.5	1.326	Fig.6
4	1754.3	20393	1.4	6	0	1.340	Fig.7	1.321	Fig.8	1.318	Fig.9

Fig.1



Fig.2

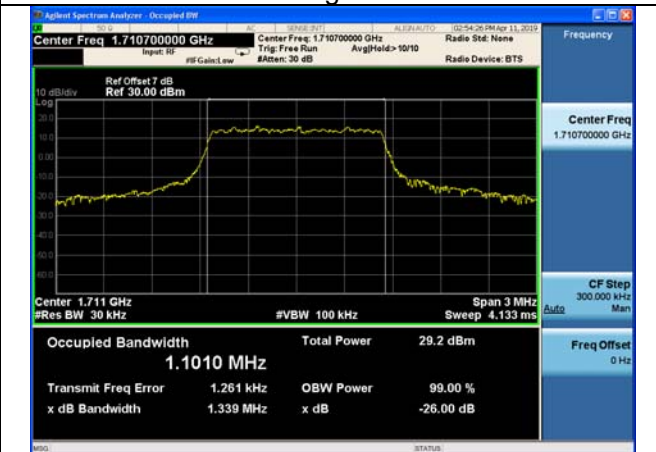


Fig.3

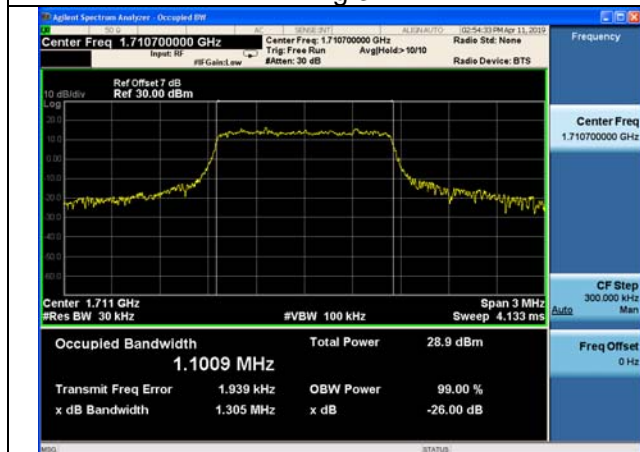


Fig.4

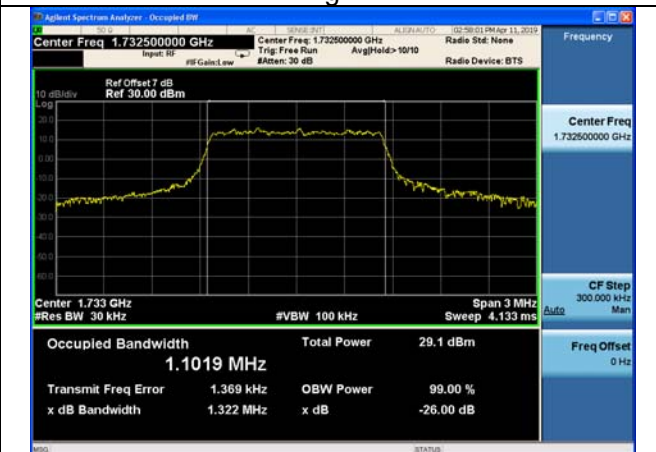


Fig.5



Fig.6

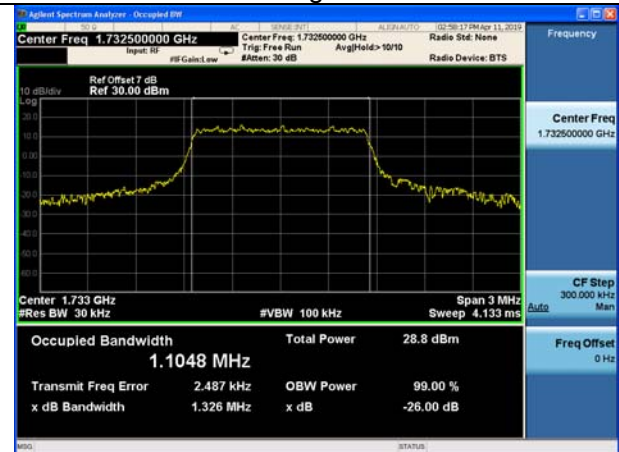


Fig.7



Fig.8

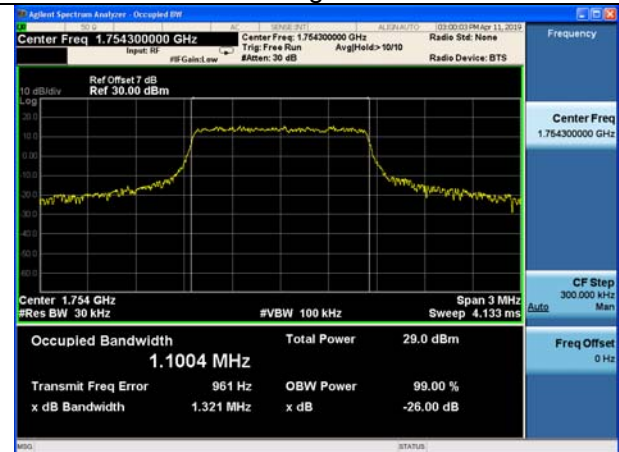
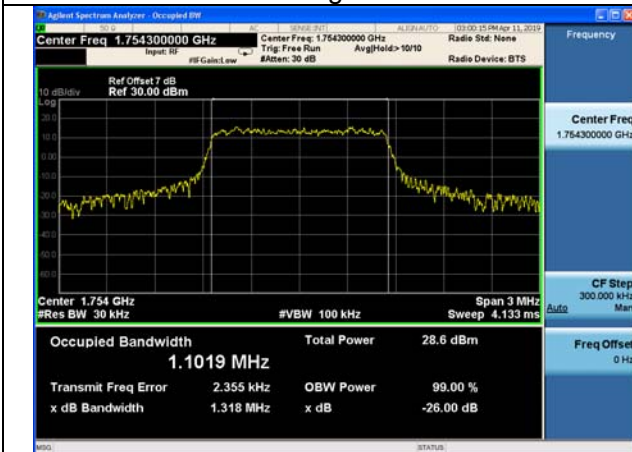


Fig.9



Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
4	1711.5	19965	3	15	0	2.7739	Fig.1	2.7632	Fig.2	2.7729	Fig.3
4	1732.5	20175	3	15	0	2.7647	Fig.4	2.7704	Fig.5	2.7589	Fig.6
4	1753.5	20385	3	15	0	2.7812	Fig.7	2.7697	Fig.8	2.7648	Fig.9

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
4	1711.5	19965	3	15	0	3.521	Fig.1	3.375	Fig.2	3.451	Fig.3
4	1732.5	20175	3	15	0	3.465	Fig.4	3.479	Fig.5	3.383	Fig.6
4	1753.5	20385	3	15	0	3.508	Fig.7	3.468	Fig.8	3.433	Fig.9

Fig.1



Fig.2

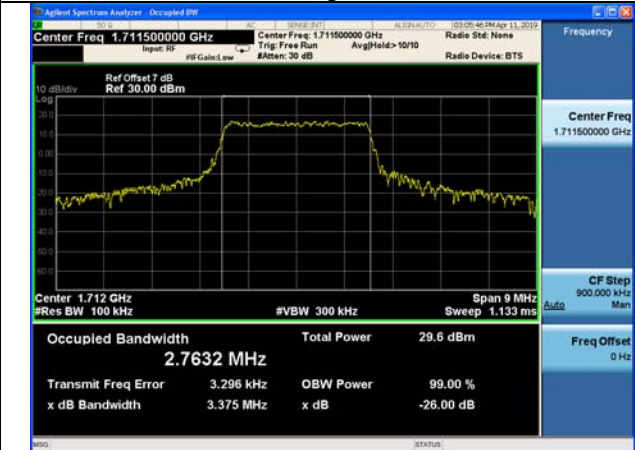


Fig.3



Fig.4

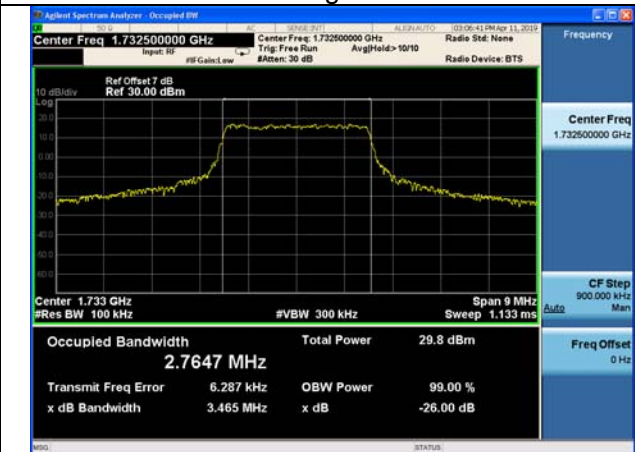


Fig.5

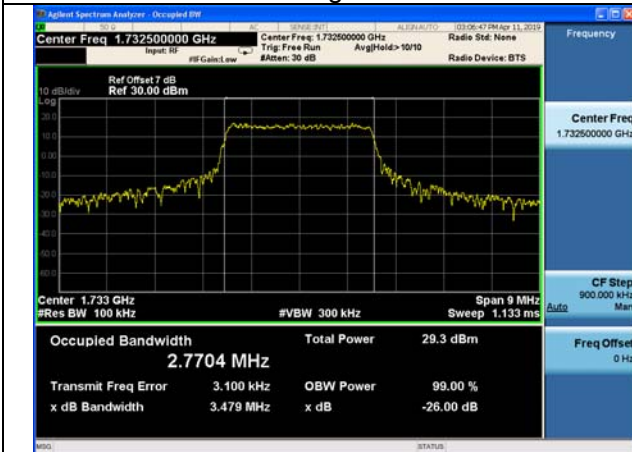


Fig.6

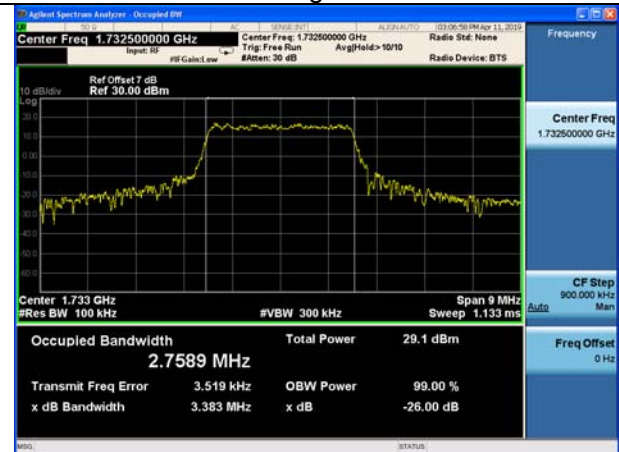


Fig.7

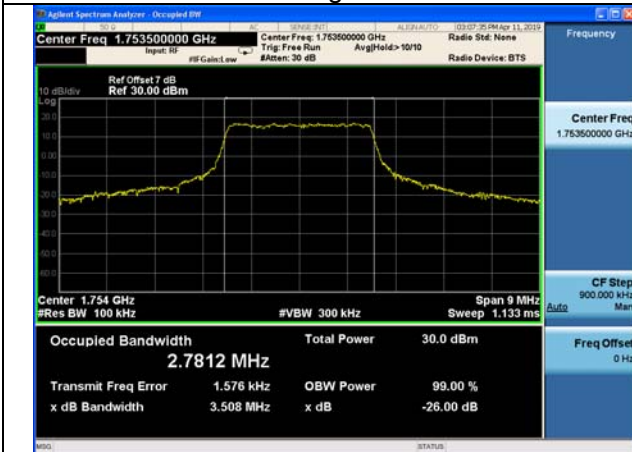


Fig.8

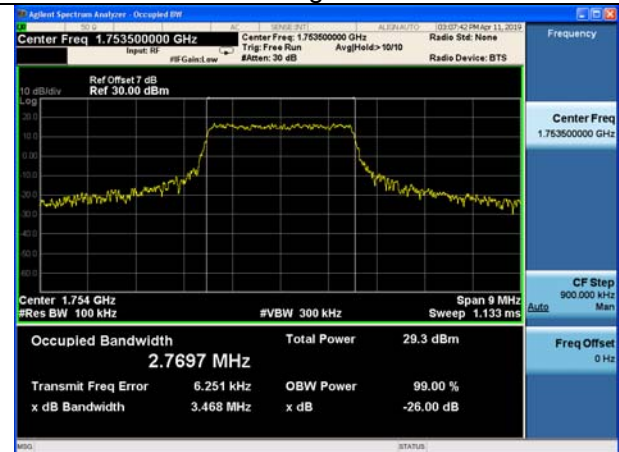
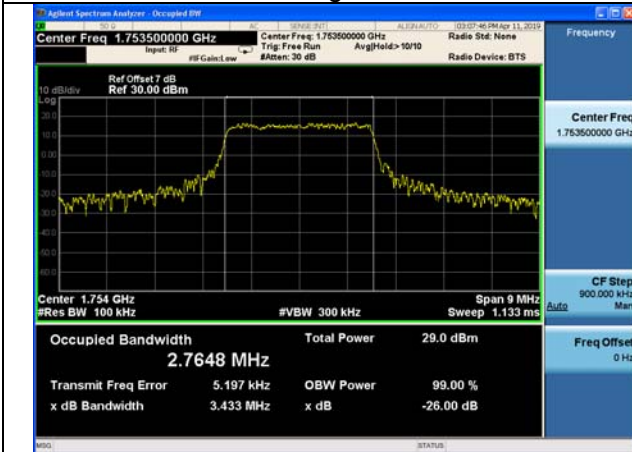


Fig.9



Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
4	1712.5	19975	5	25	0	4.5048	Fig.1	4.4995	Fig.2	4.4952	Fig.3
4	1732.5	20175	5	25	0	4.5027	Fig.4	4.5021	Fig.5	4.4910	Fig.6
4	1752.5	20375	5	25	0	4.5032	Fig.7	4.4940	Fig.8	4.4978	Fig.9

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
4	1712.5	19975	5	25	0	5.422	Fig.1	5.383	Fig.2	5.107	Fig.3
4	1732.5	20175	5	25	0	5.398	Fig.4	5.396	Fig.5	5.016	Fig.6
4	1752.5	20375	5	25	0	5.409	Fig.7	5.306	Fig.8	5.088	Fig.9

Fig.1



Fig.2

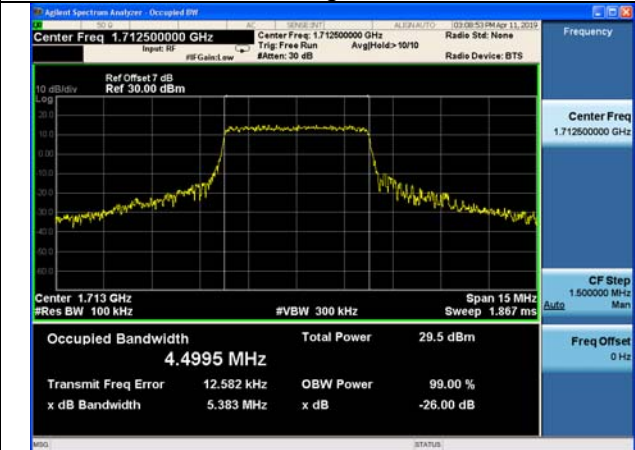


Fig.3



Fig.4

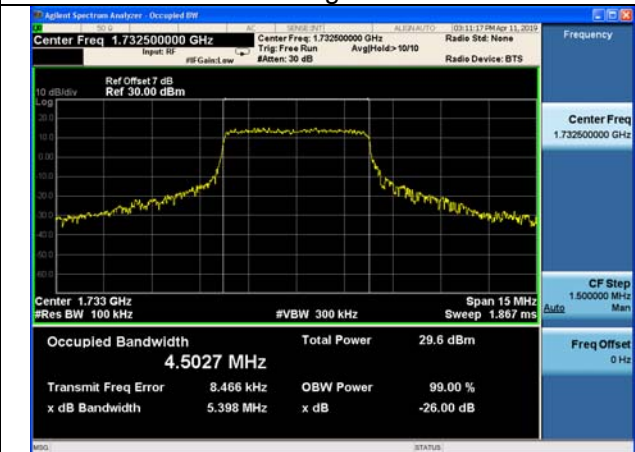


Fig.5

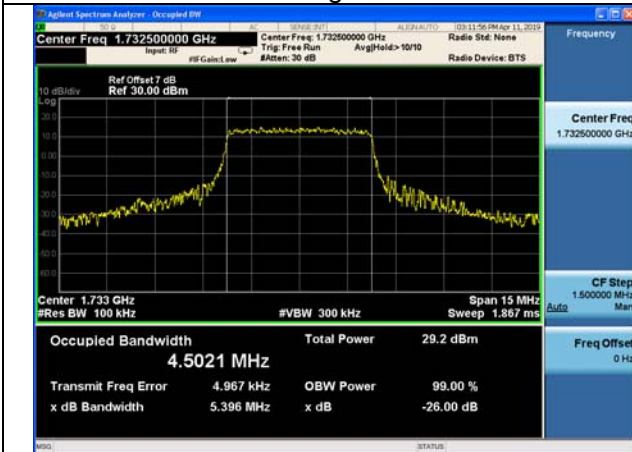


Fig.6

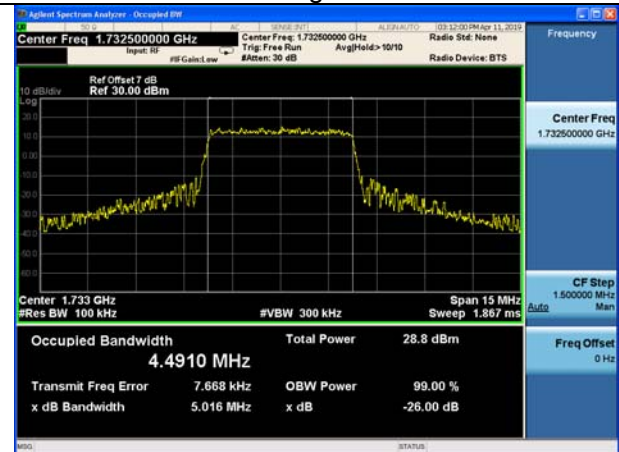


Fig.7



Fig.8

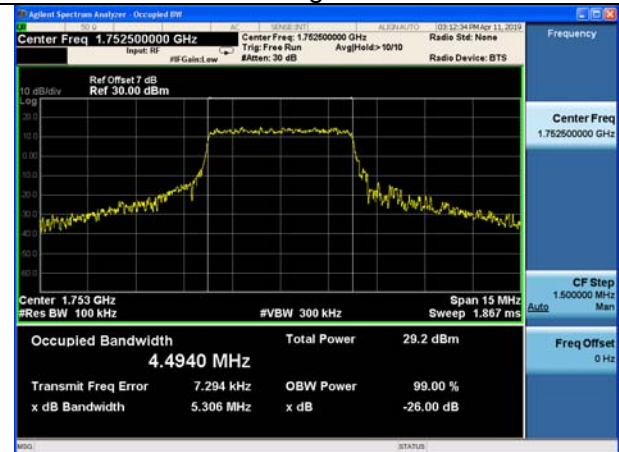
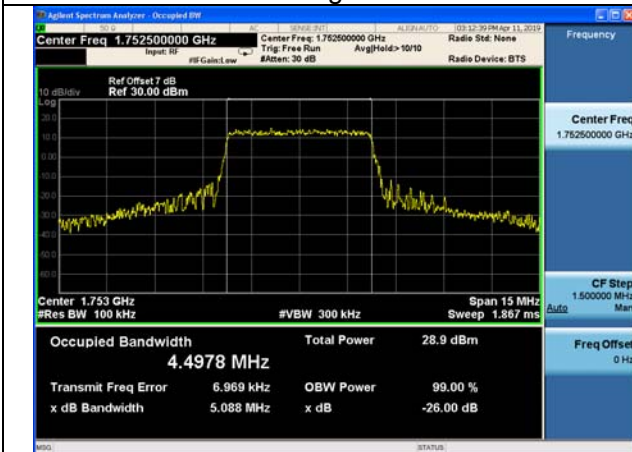


Fig.9



Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
4	1715	20000	10	50	0	9.0743	Fig.1	9.0428	Fig.2	9.0566	Fig.3
4	1732.5	20175	10	50	0	9.0745	Fig.4	9.0749	Fig.5	9.0600	Fig.6
4	1750	20350	10	50	0	9.0753	Fig.7	9.0490	Fig.8	9.0645	Fig.9

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
4	1715	20000	10	50	0	10.06	Fig.1	10.08	Fig.2	9.951	Fig.3
4	1732.5	20175	10	50	0	10.21	Fig.4	10.13	Fig.5	10.05	Fig.6
4	1750	20350	10	50	0	10.12	Fig.7	9.975	Fig.8	9.943	Fig.9

Fig.1



Fig.2

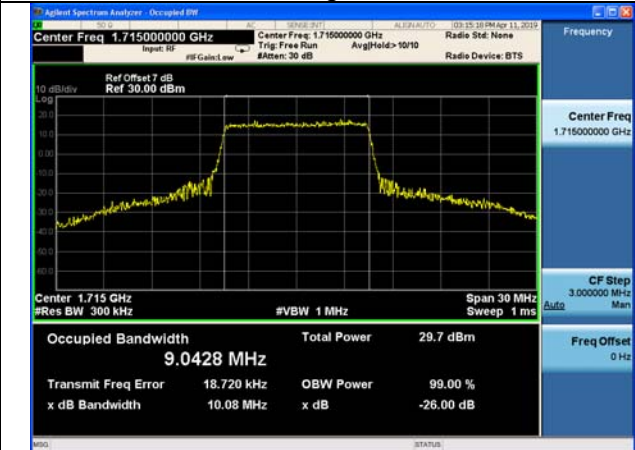


Fig.3



Fig.4

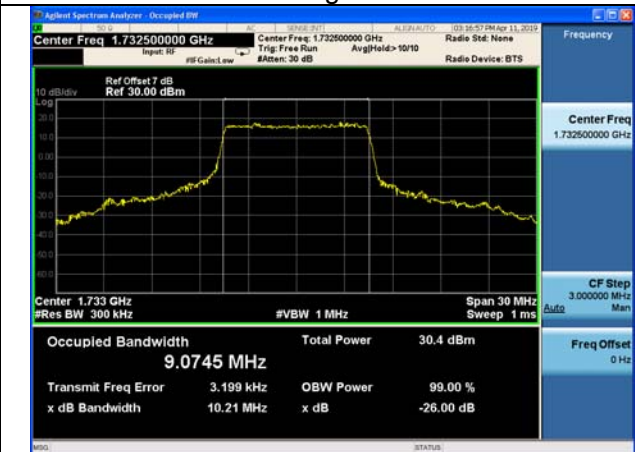


Fig.5

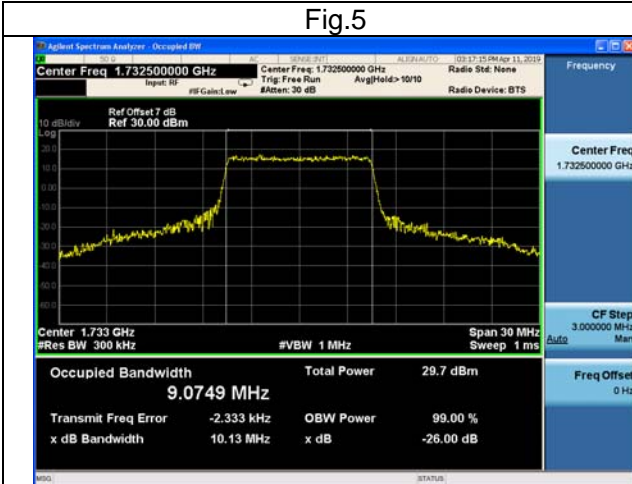


Fig.6

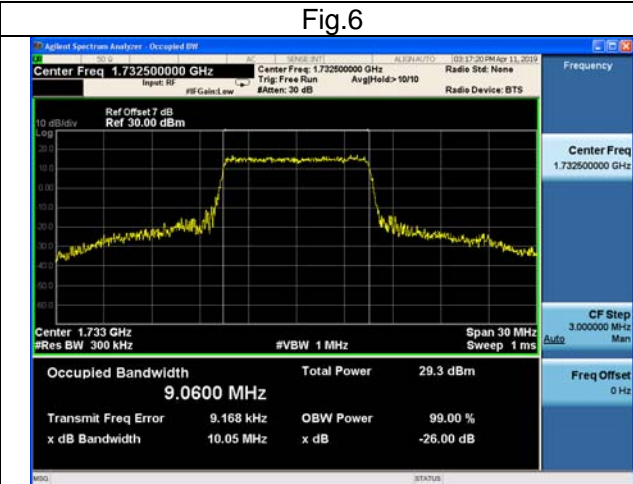


Fig.7

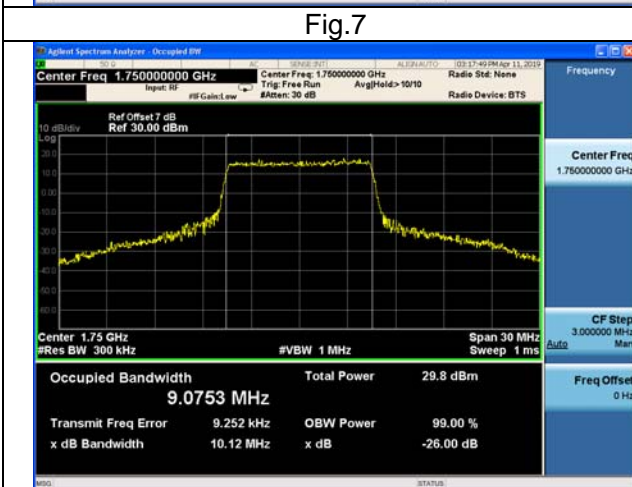


Fig.8

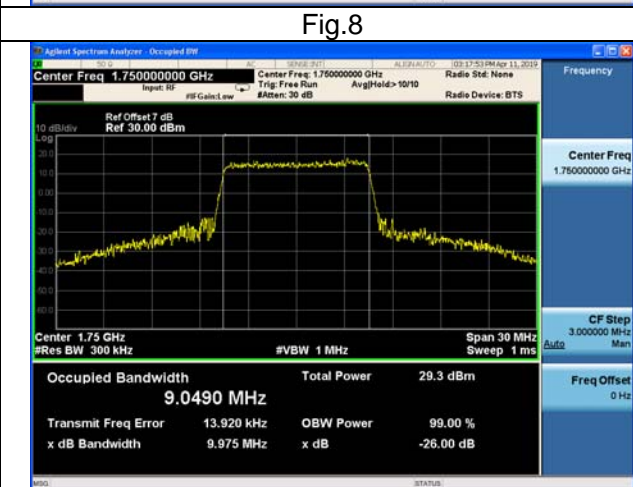
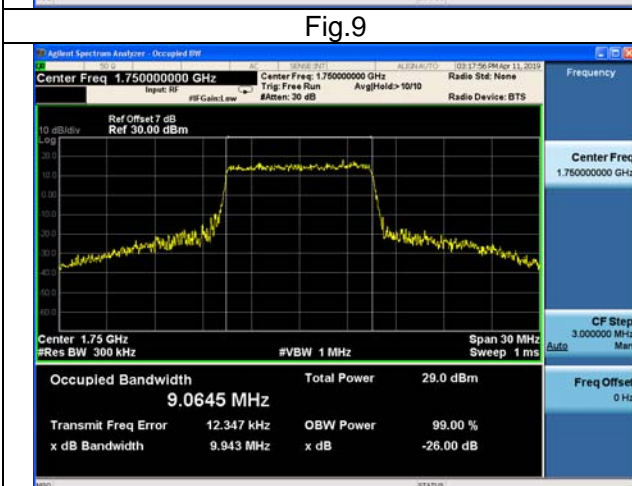


Fig.9



Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
4	1717.5	20025	15	75	0	13.503	Fig.1	13.489	Fig.2	13.466	Fig.3
4	1732.5	20175	15	75	0	13.502	Fig.4	13.503	Fig.5	13.499	Fig.6
4	1747.5	20325	15	75	0	13.504	Fig.7	13.489	Fig.8	13.503	Fig.9

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
4	1717.5	20025	15	75	0	15.51	Fig.1	15.30	Fig.2	15.22	Fig.3
4	1732.5	20175	15	75	0	15.15	Fig.4	15.55	Fig.5	15.31	Fig.6
4	1747.5	20325	15	75	0	15.20	Fig.7	15.30	Fig.8	15.01	Fig.9

Fig.1

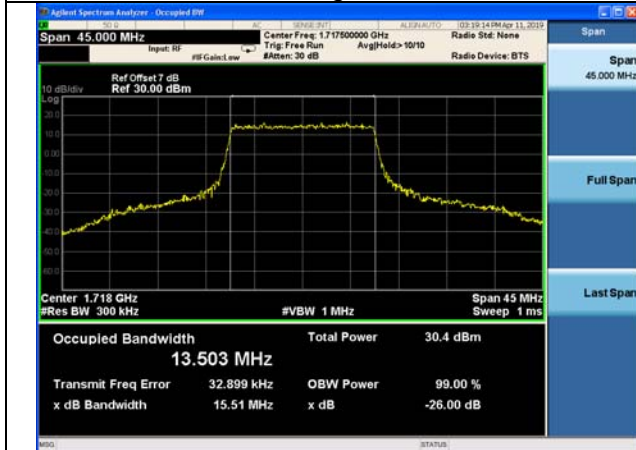


Fig.2

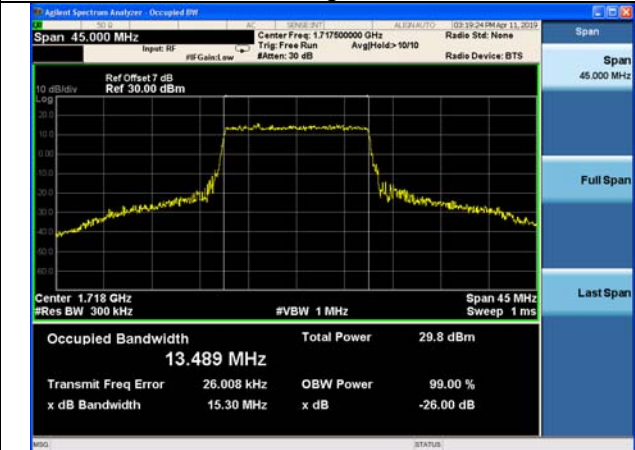


Fig.3

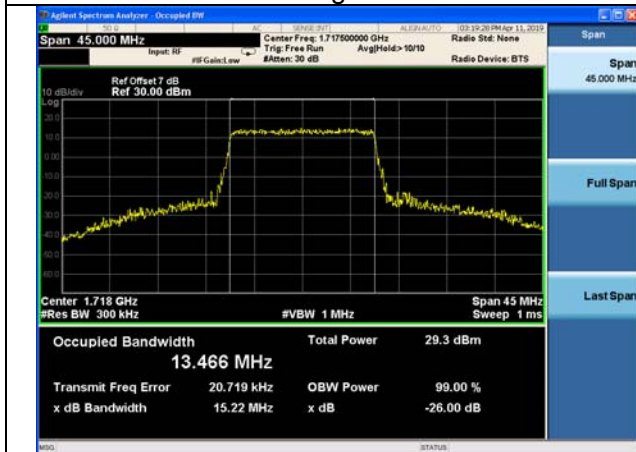


Fig.4

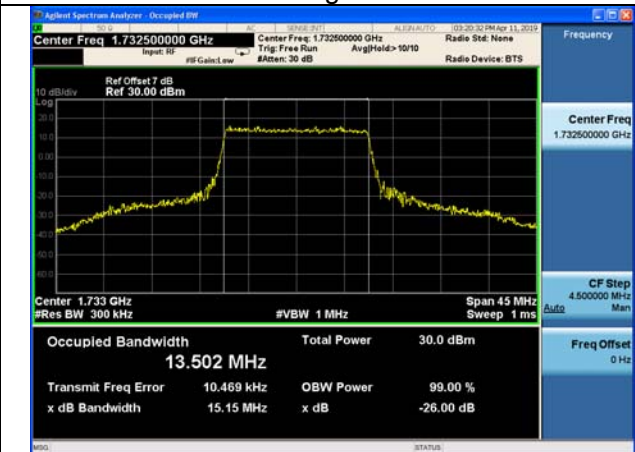


Fig.5

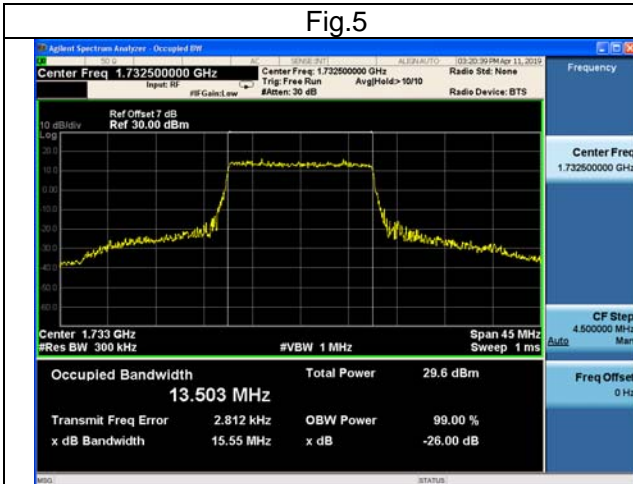


Fig.6

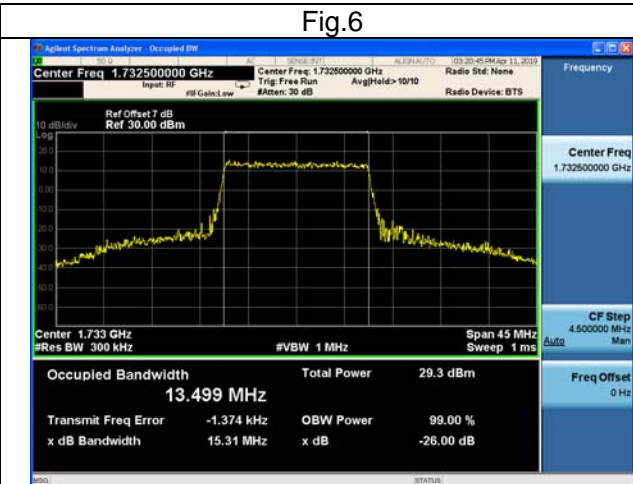


Fig.7

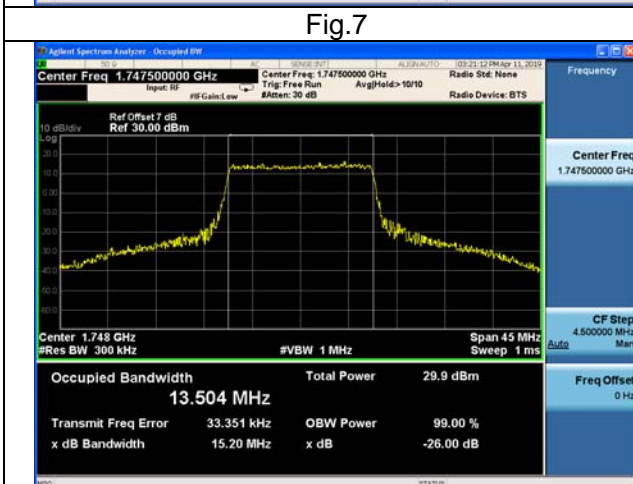


Fig.8

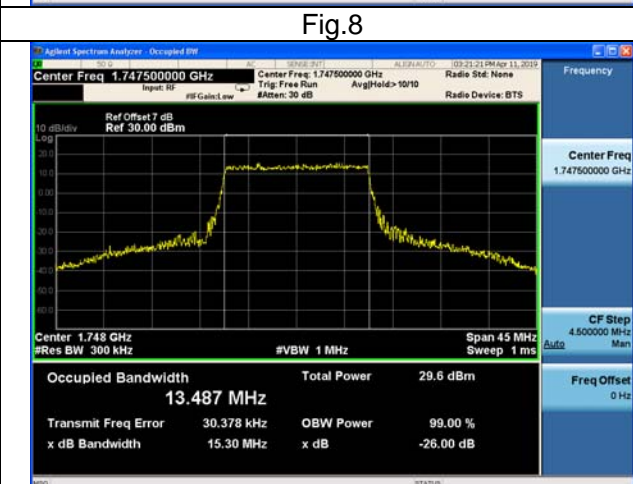
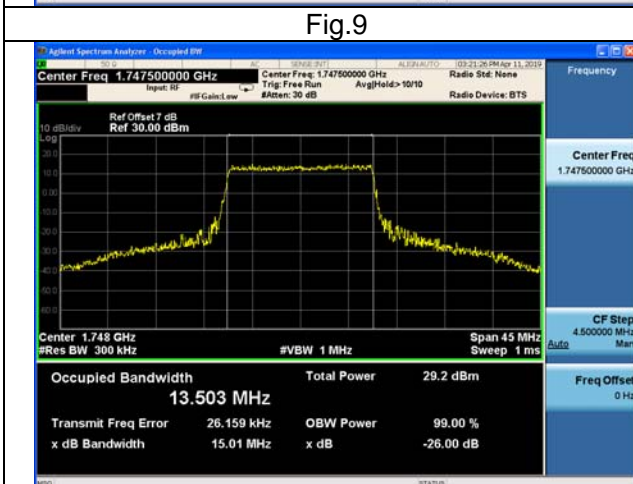


Fig.9



Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
4	1720	20050	20	100	0	17.927	Fig.1	17.896	Fig.2	17.930	Fig.3
4	1732.5	20175	20	100	0	17.951	Fig.4	17.925	Fig.5	17.932	Fig.6
4	1745	20300	20	100	0	17.936	Fig.7	17.972	Fig.8	17.970	Fig.9

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
4	1720	20050	20	100	0	19.93	Fig.1	20.05	Fig.2	19.94	Fig.3
4	1732.5	20175	20	100	0	19.87	Fig.4	20.03	Fig.5	19.68	Fig.6
4	1745	20300	20	100	0	19.68	Fig.7	19.84	Fig.8	19.93	Fig.9

Fig.1

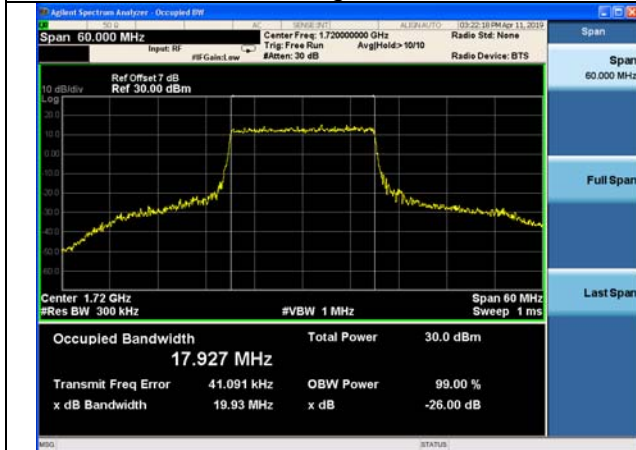


Fig.2

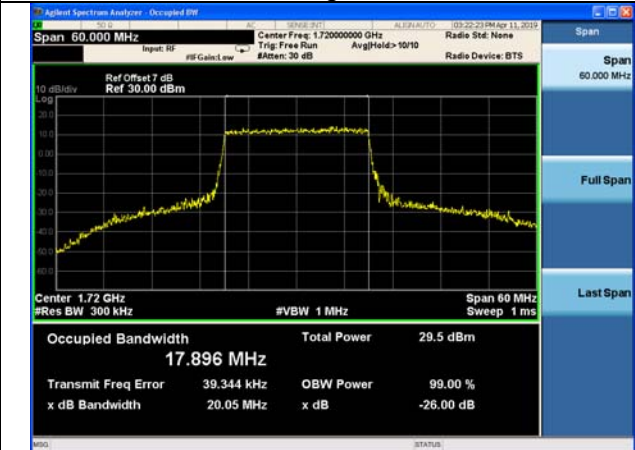


Fig.3

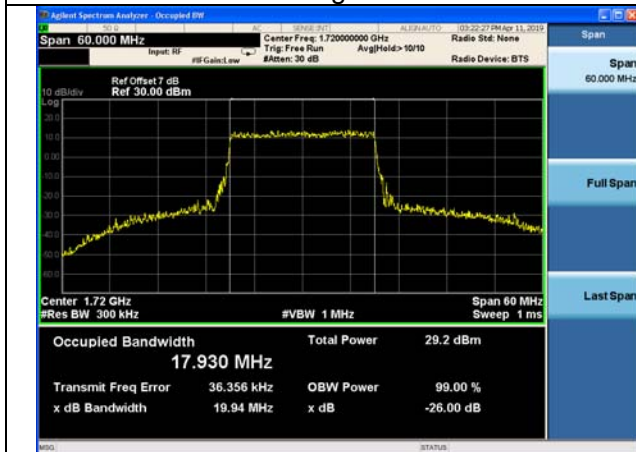


Fig.4

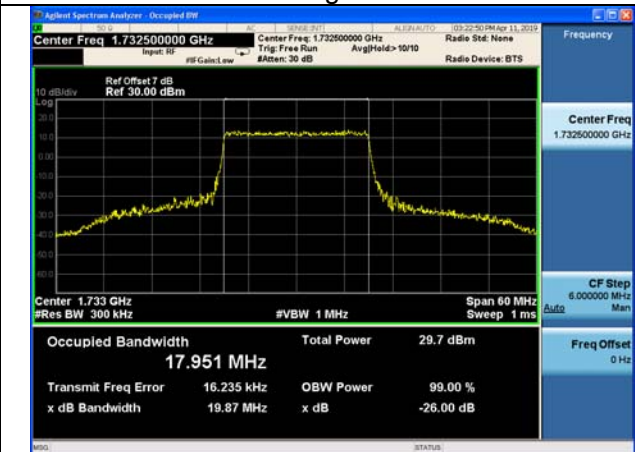


Fig.5

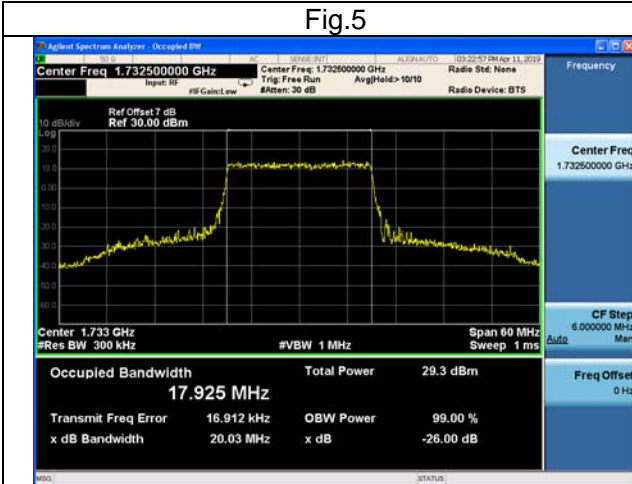


Fig.6

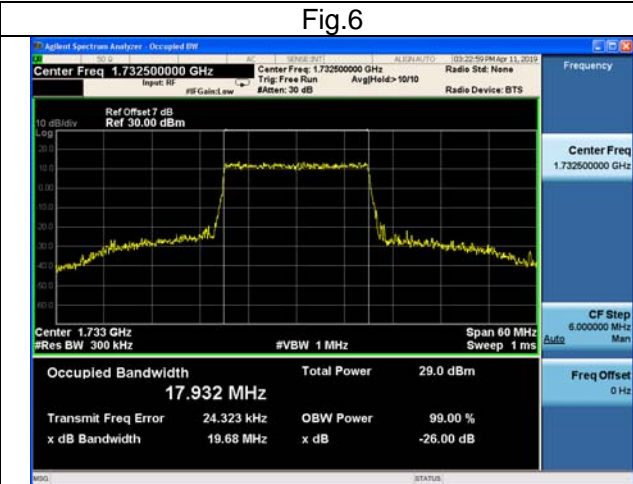


Fig.7

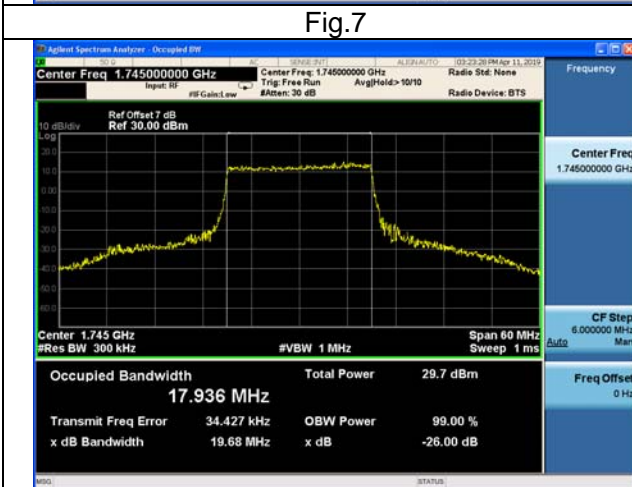


Fig.8

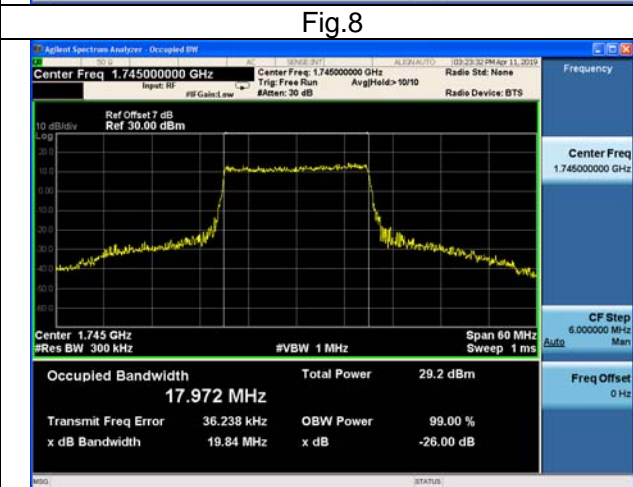
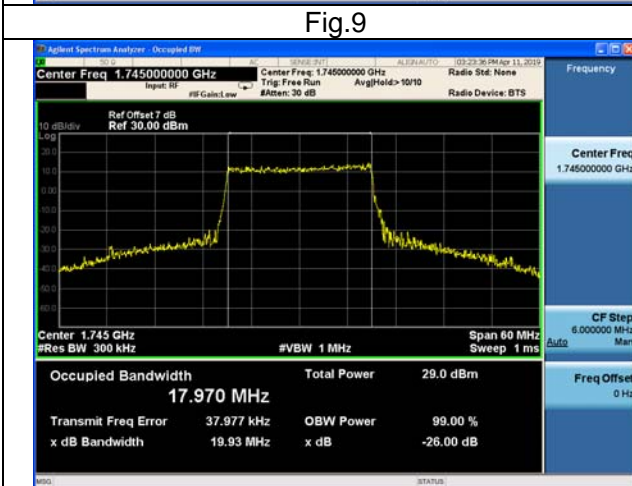
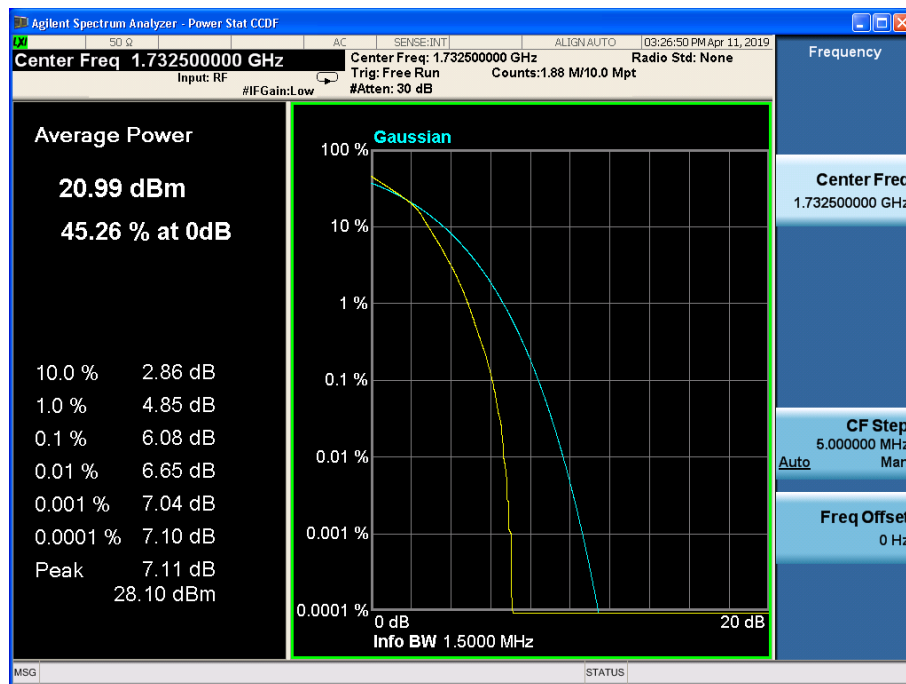


Fig.9

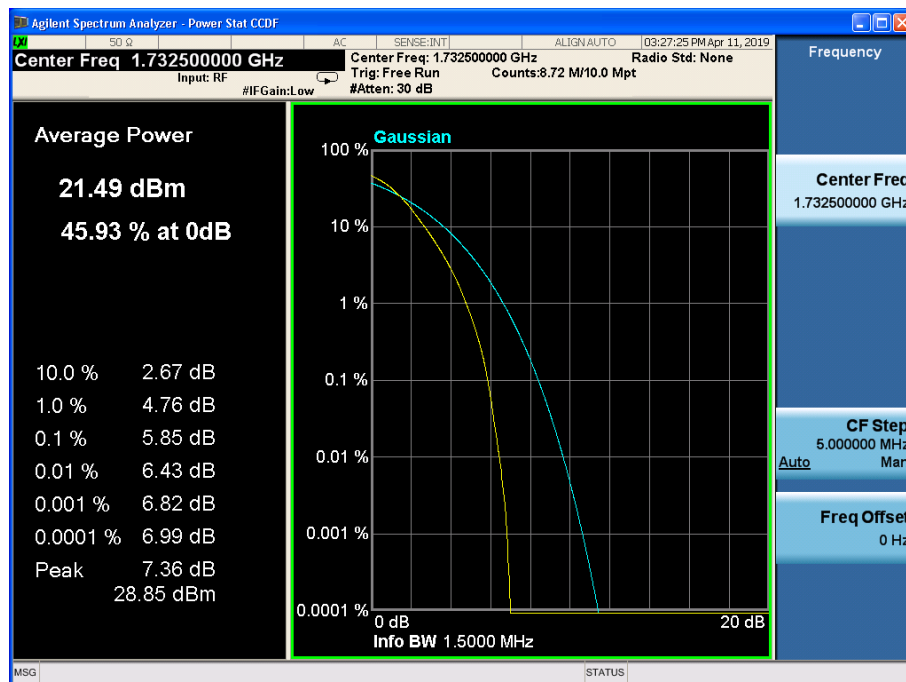


3 Peak-Average Ratio

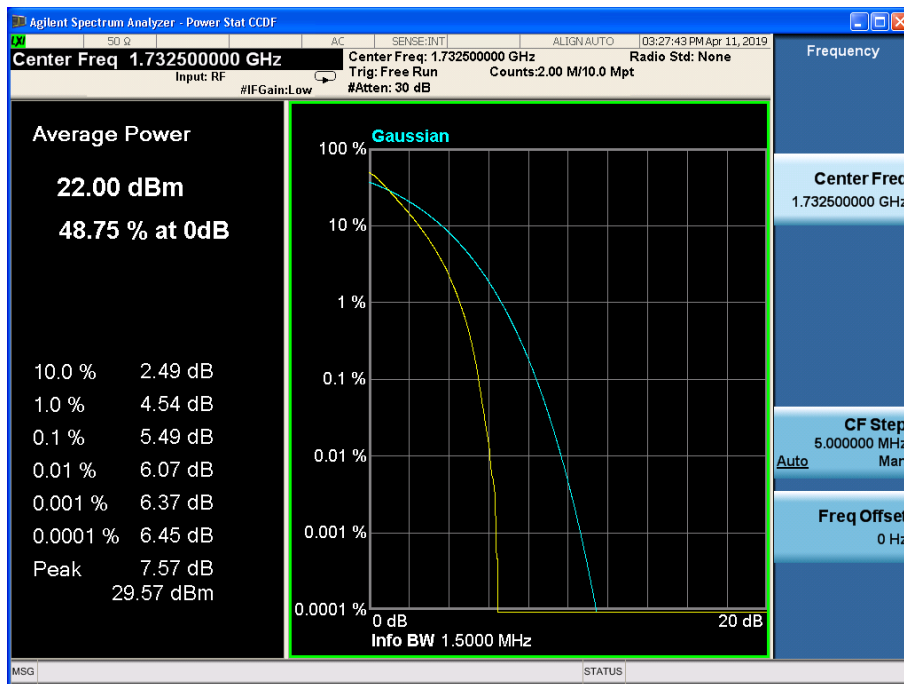
Test result:



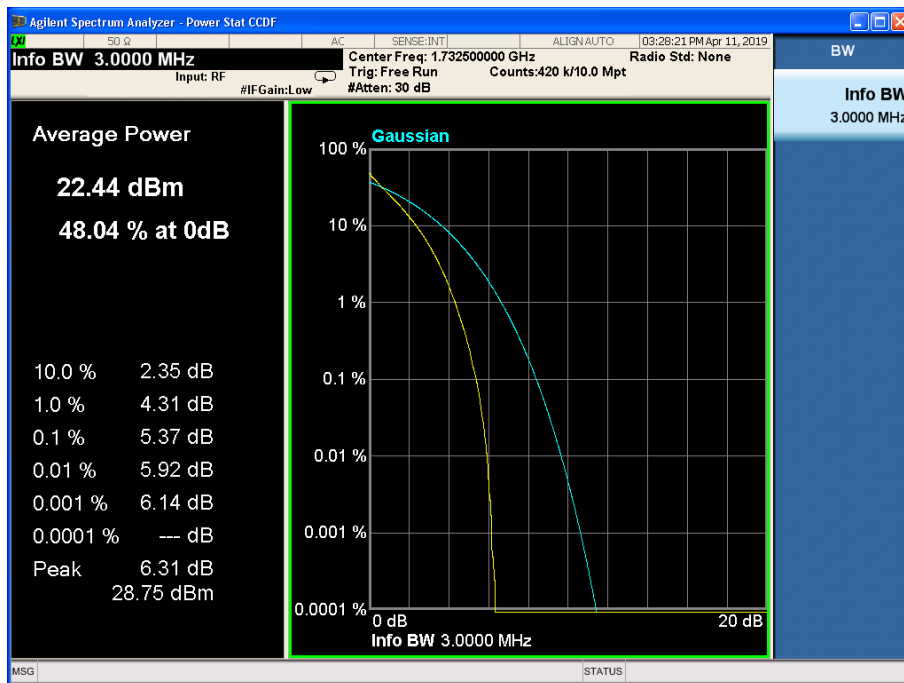
Peak-Average Ratio Plot(1.4MHz BW,QPSK,Band 4-mid Channel)



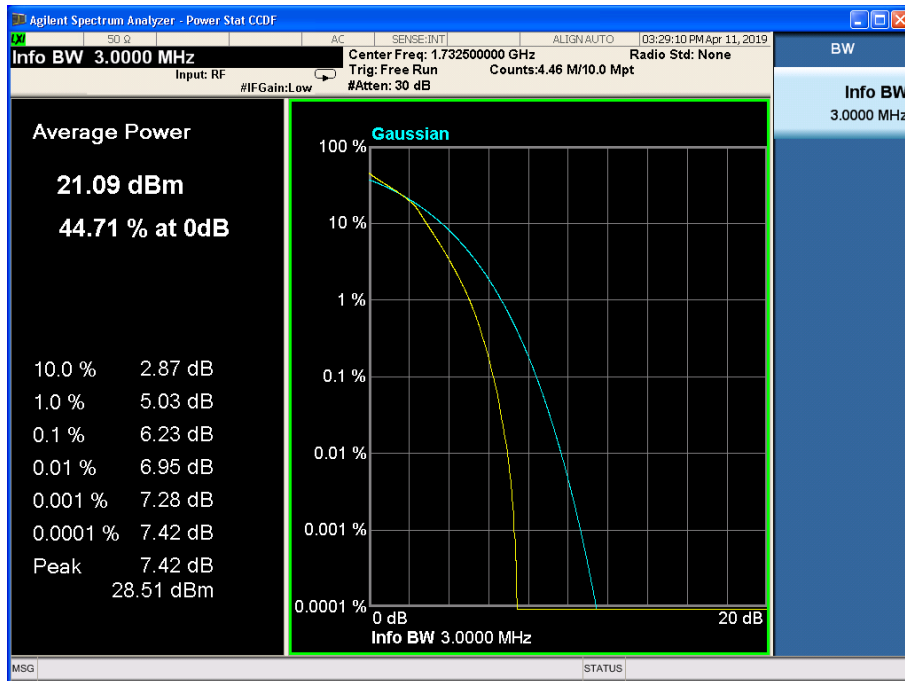
Peak-Average Ratio Plot(1.4MHz BW,16QAM,Band 4-mid Channel)



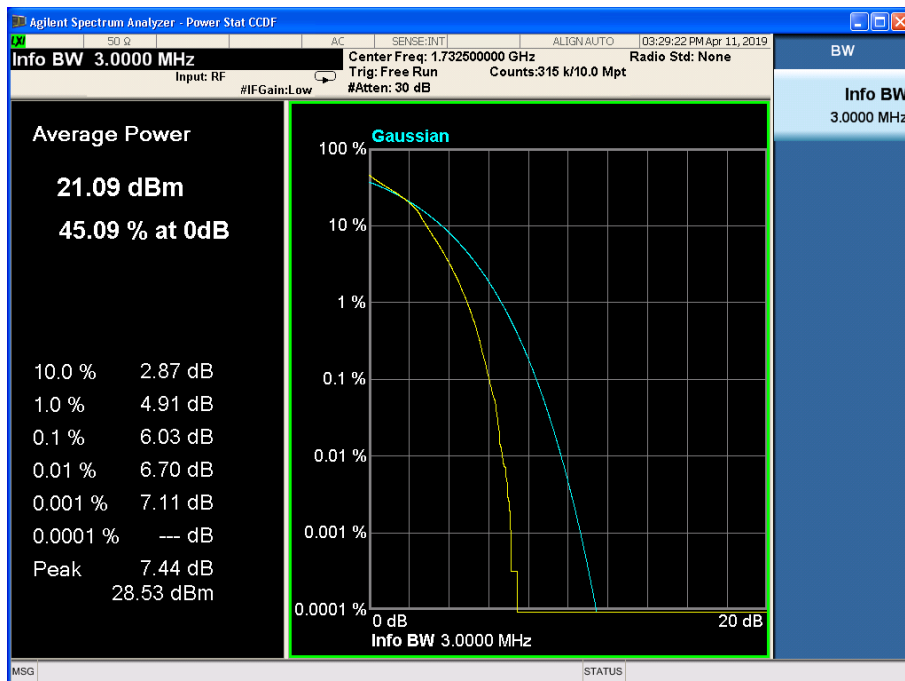
Peak-Average Ratio Plot(1.4MHz BW,64QAM,Band 4-mid Channel)



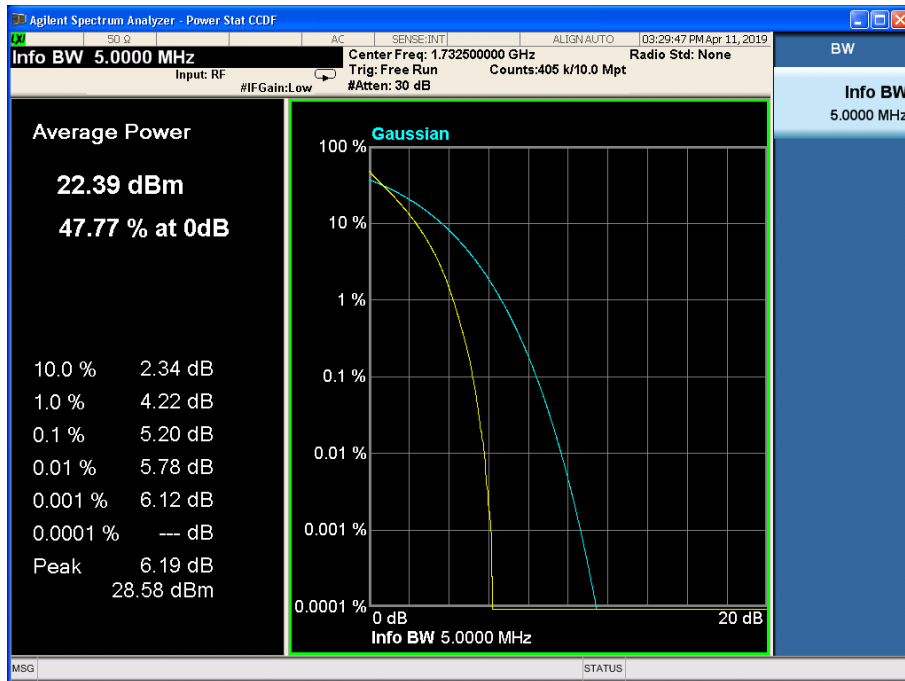
Peak-Average Ratio Plot(3MHz BW,QPSK,Band 4-mid Channel)



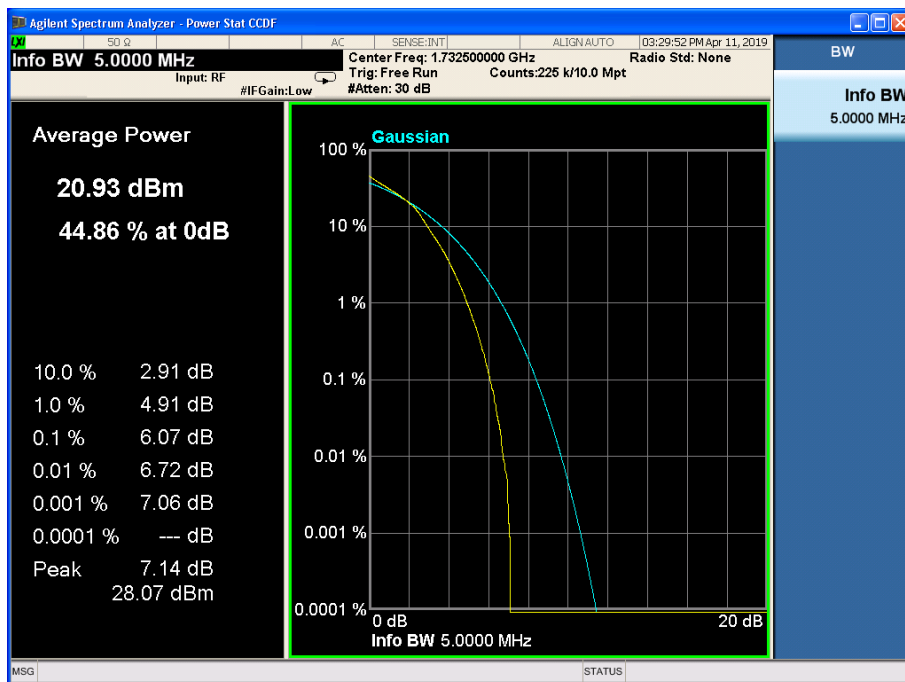
Peak-Average Ratio Plot(3MHz BW,16QAM,Band 4-mid Channel)



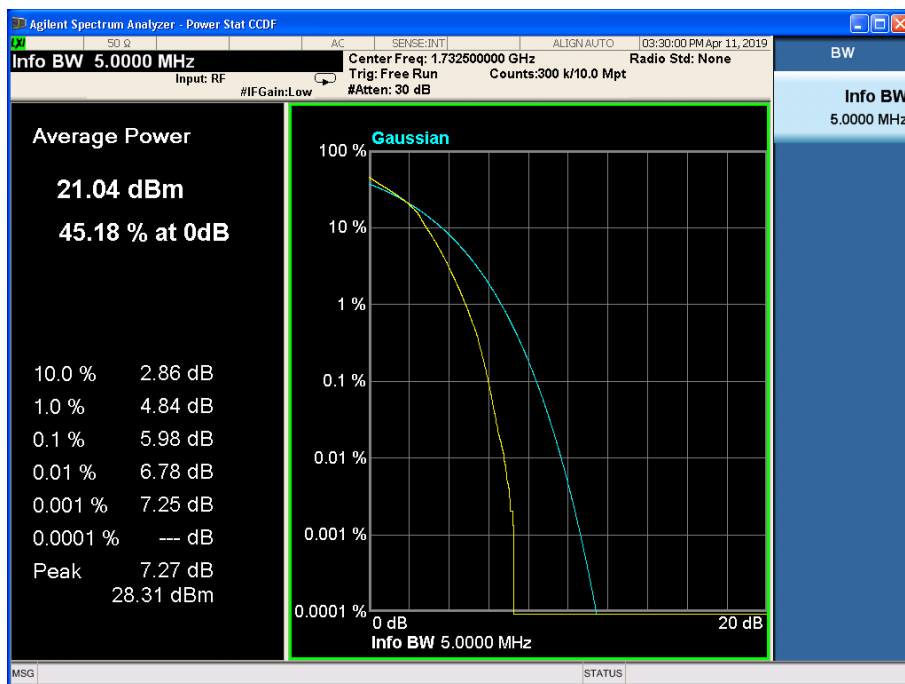
Peak-Average Ratio Plot(3MHz BW,64QAM,Band 4-mid Channel)



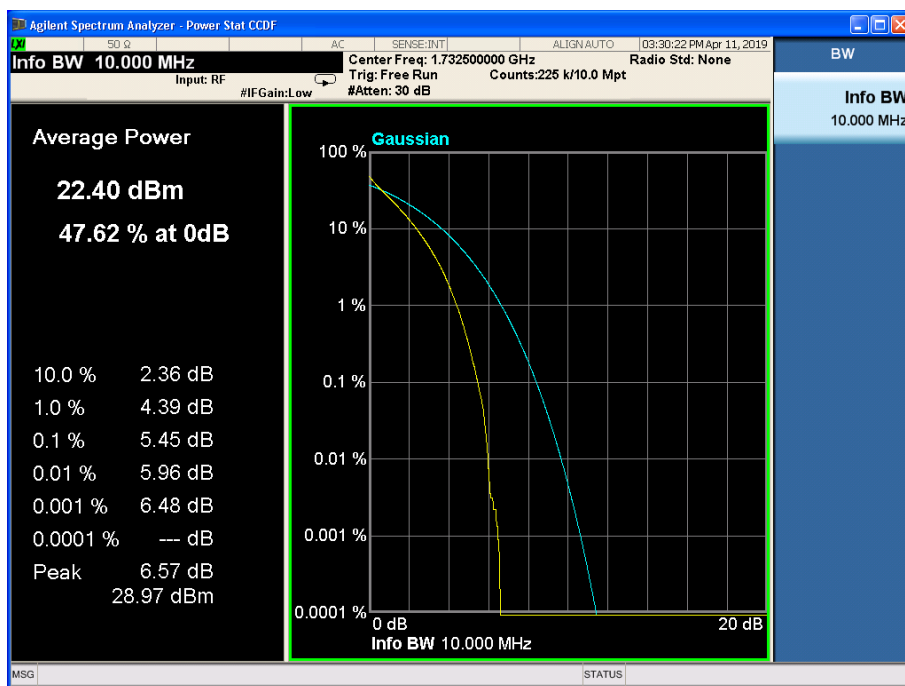
Peak-Average Ratio Plot(5MHz BW,QPSK,Band 4-mid Channel)



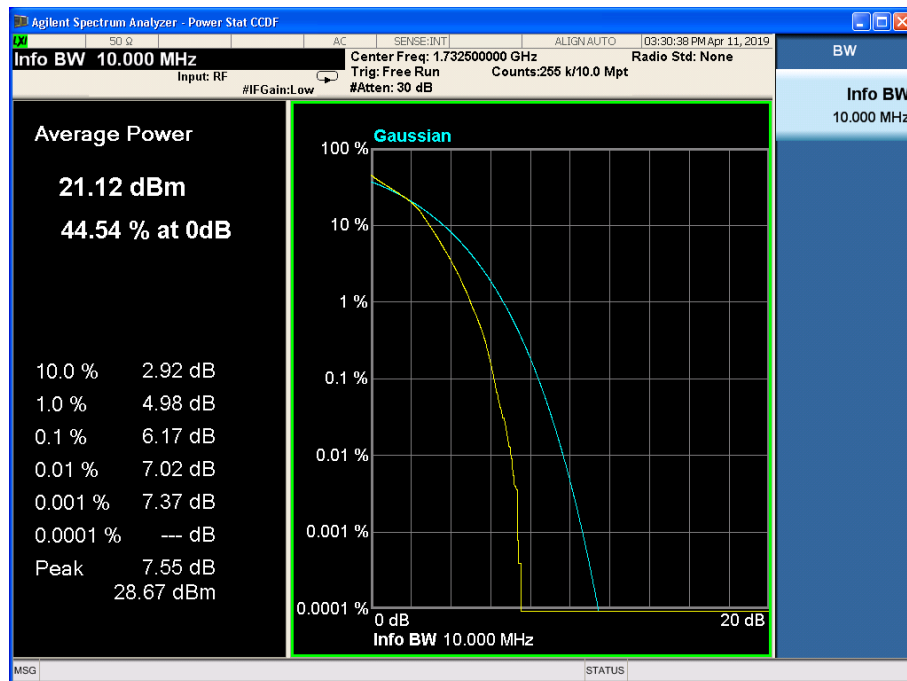
Peak-Average Ratio Plot(5MHz BW,16QAM,Band 4-mid Channel)



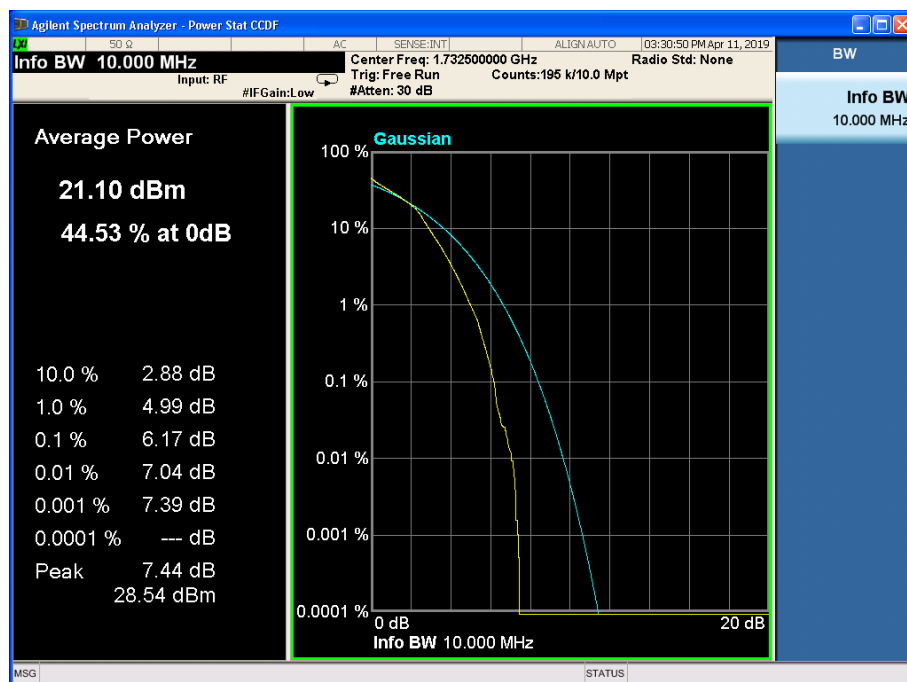
Peak-Average Ratio Plot(5MHz BW,64QAM,Band 4-mid Channel)



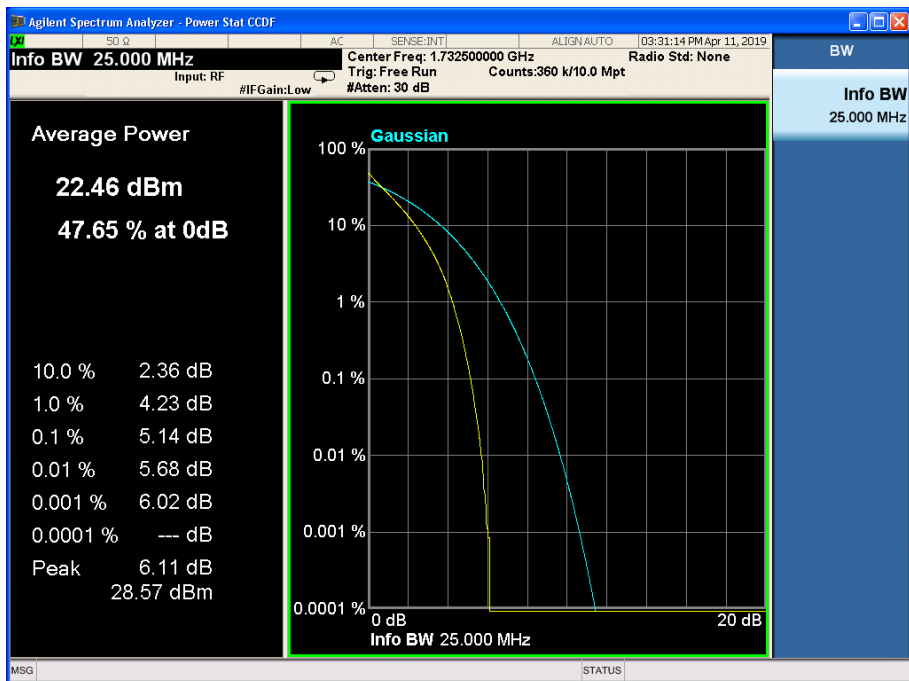
Peak-Average Ratio Plot(10MHz BW,QPSK,Band 4-mid Channel)



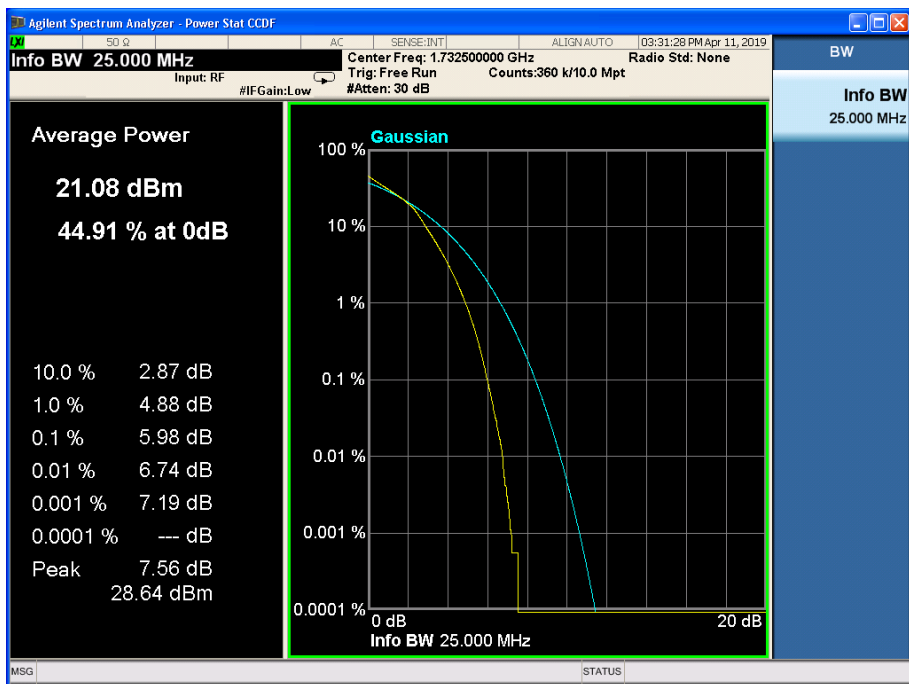
Peak-Average Ratio Plot(10MHz BW,16QAM,Band 4-mid Channel)



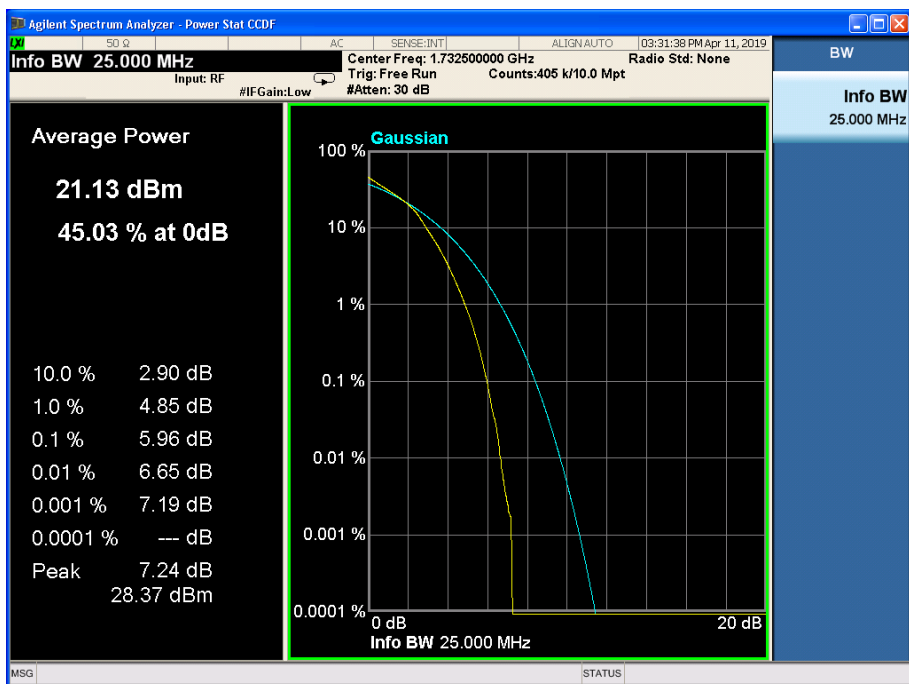
Peak-Average Ratio Plot(10MHz BW,64QAM,Band 4-mid Channel)



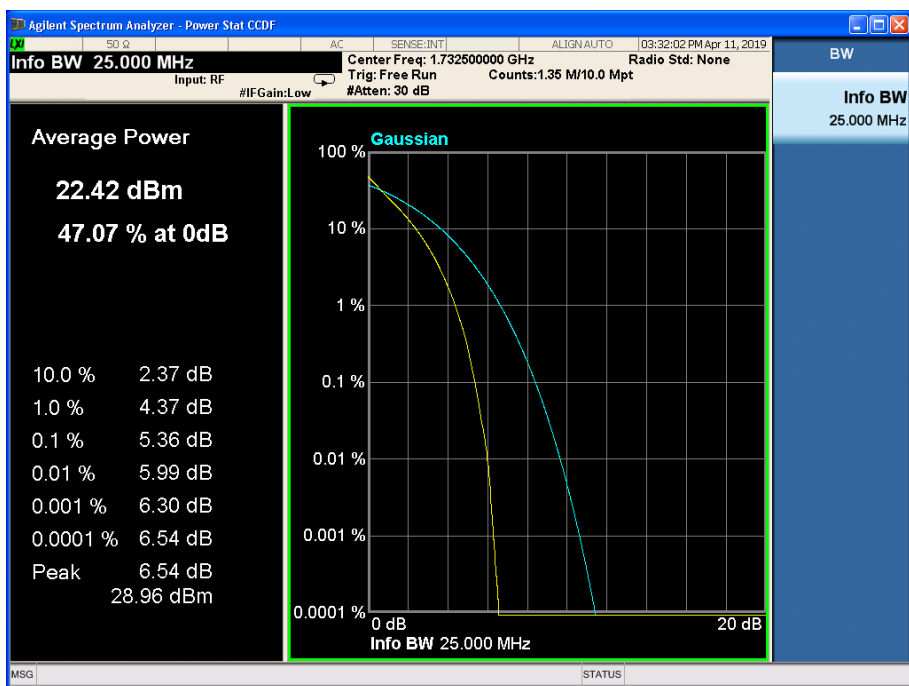
Peak-Average Ratio Plot(15MHz BW,QPSK,Band 4-mid Channel)



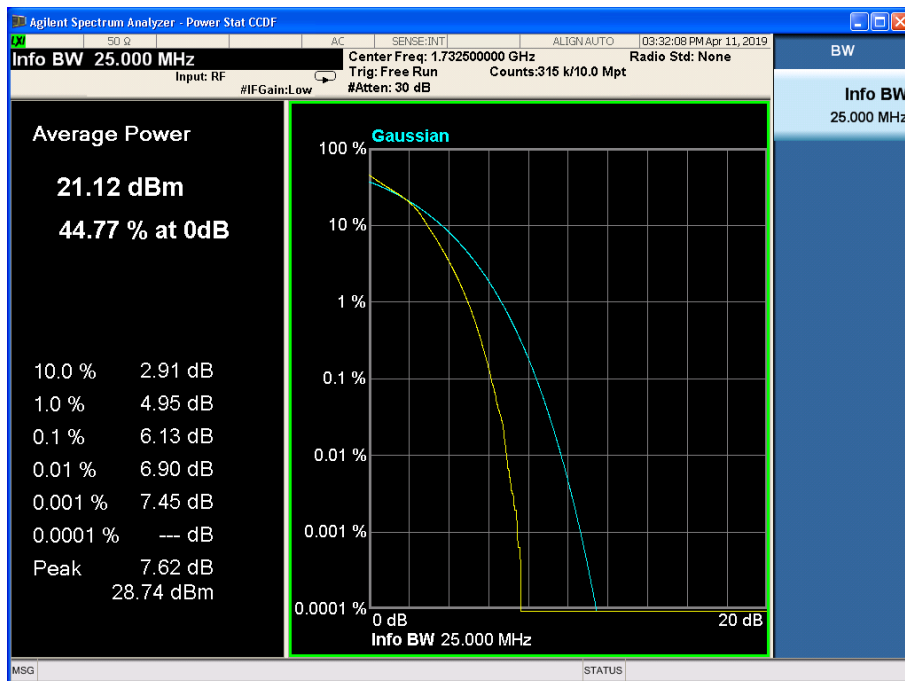
Peak-Average Ratio Plot(15MHz BW,16QAM,Band 4-mid Channel)



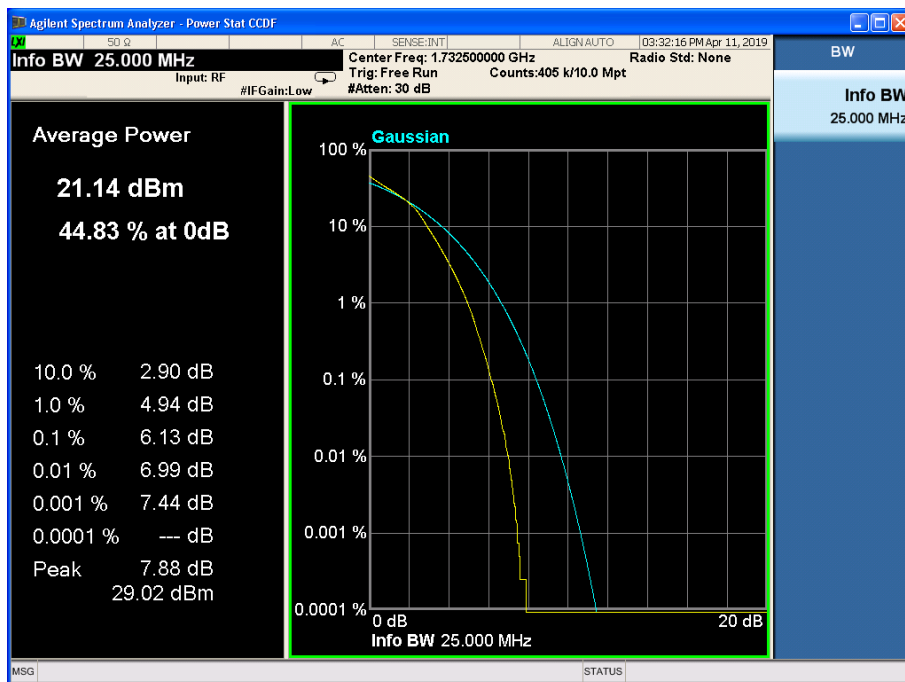
Peak-Average Ratio Plot(15MHz BW,64QAM,Band 4-mid Channel)



Peak-Average Ratio Plot(20MHz BW,QPSK,Band 4-mid Channel)



Peak-Average Ratio Plot(20MHz BW,16QAM,Band 4-mid Channel)



Peak-Average Ratio Plot(20MHz BW,64QAM,Band 4-mid Channel)

4 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
4	1720	20050	20	1	0	Fig.1

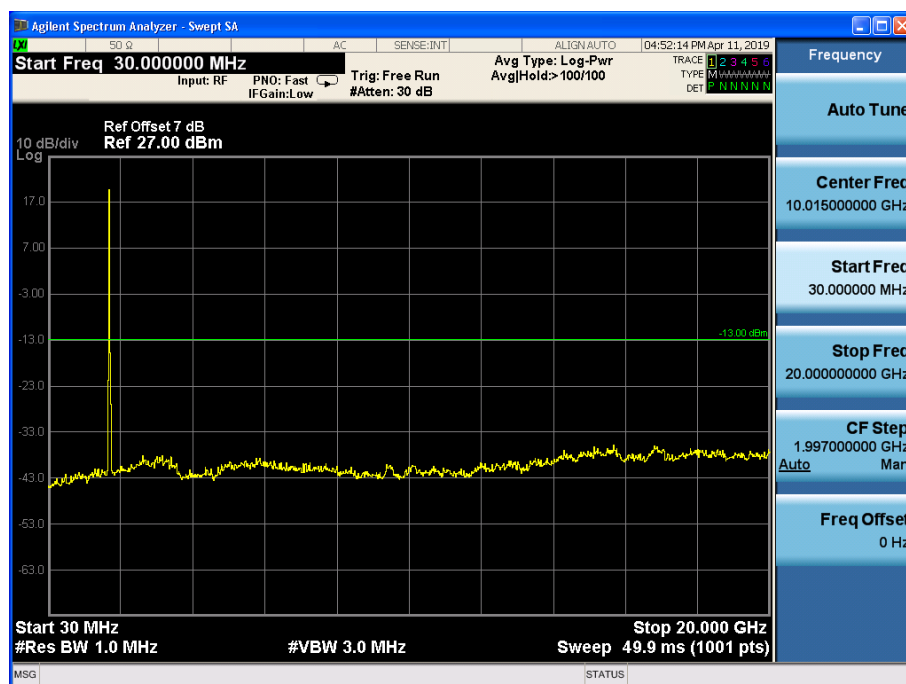


Fig.1

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
4	1732.5	20175	20	1	0	Fig.4

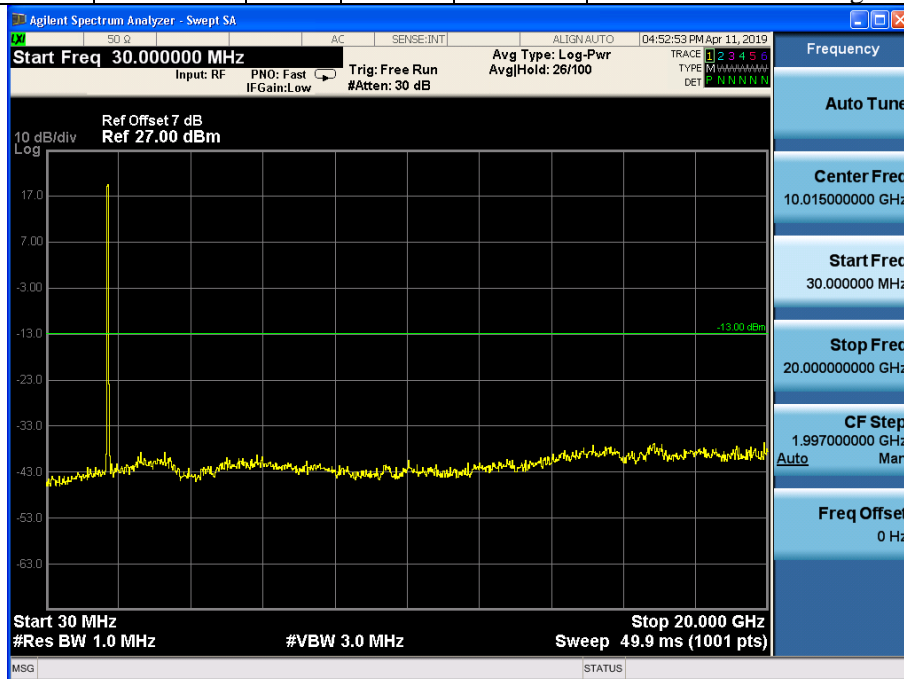


Fig.1

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
4	1745	20300	20	1	0	Fig.1

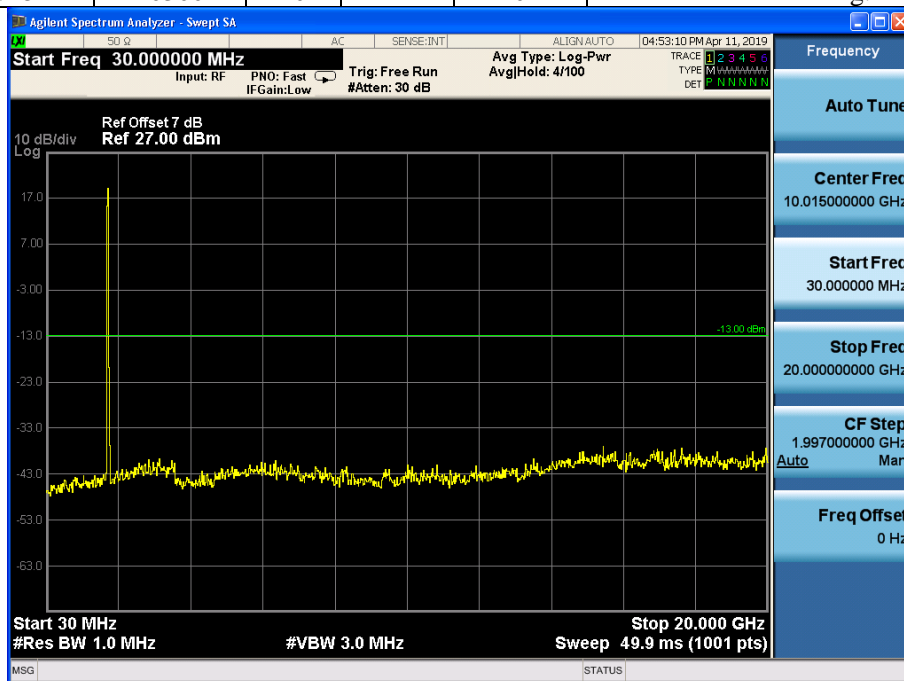


Fig.1

5 Band Edges Compliance

Test result

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
4	1710.7	19957	1.4	1	0	Fig.1
				6	0	Fig.4

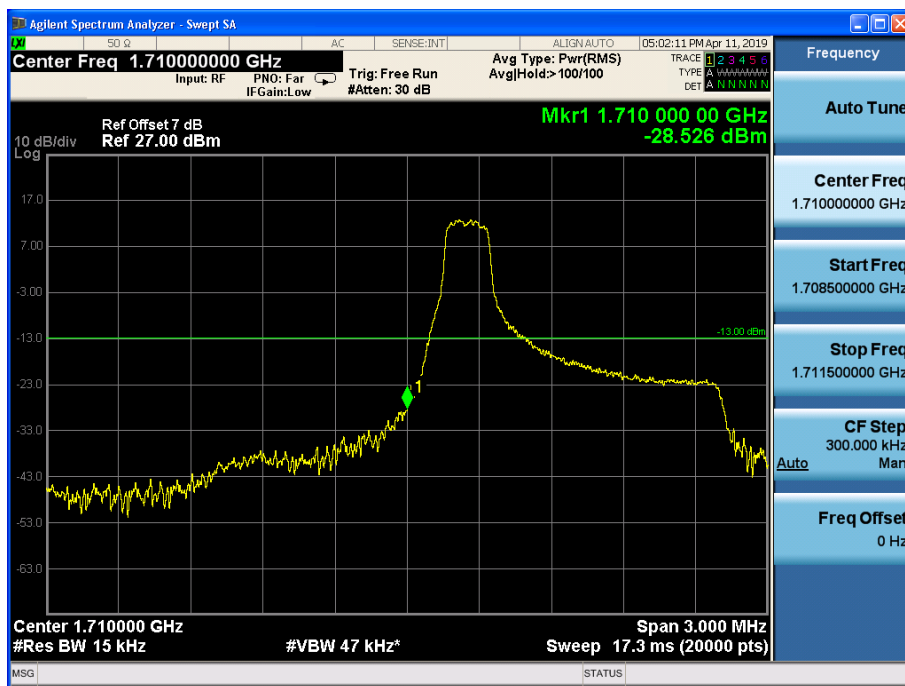


Fig.1

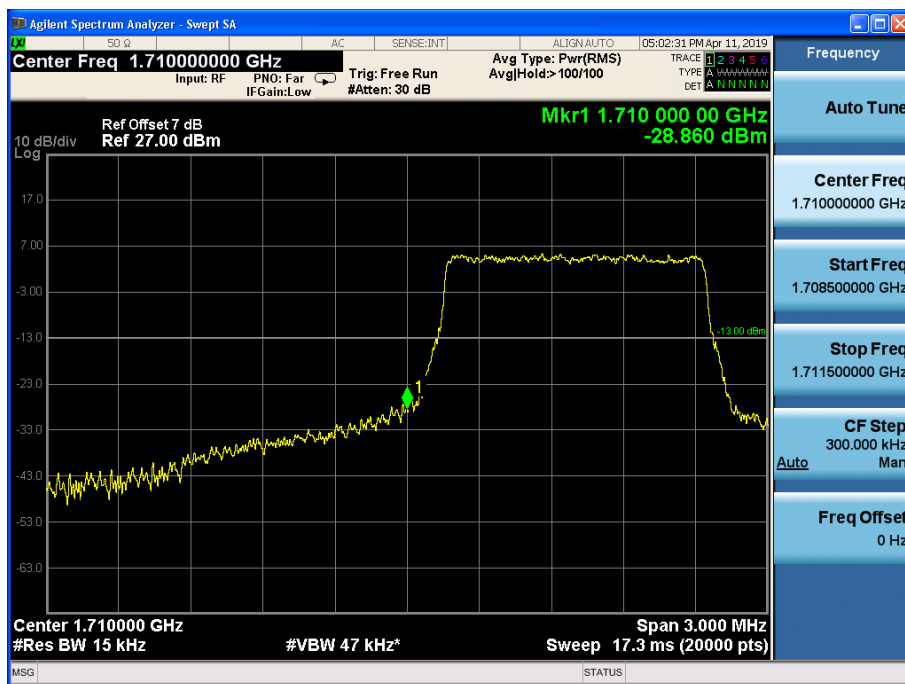


Fig.4

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
4	1754.3	20393	1.4	1	0	Fig.1
				6	0	Fig.4

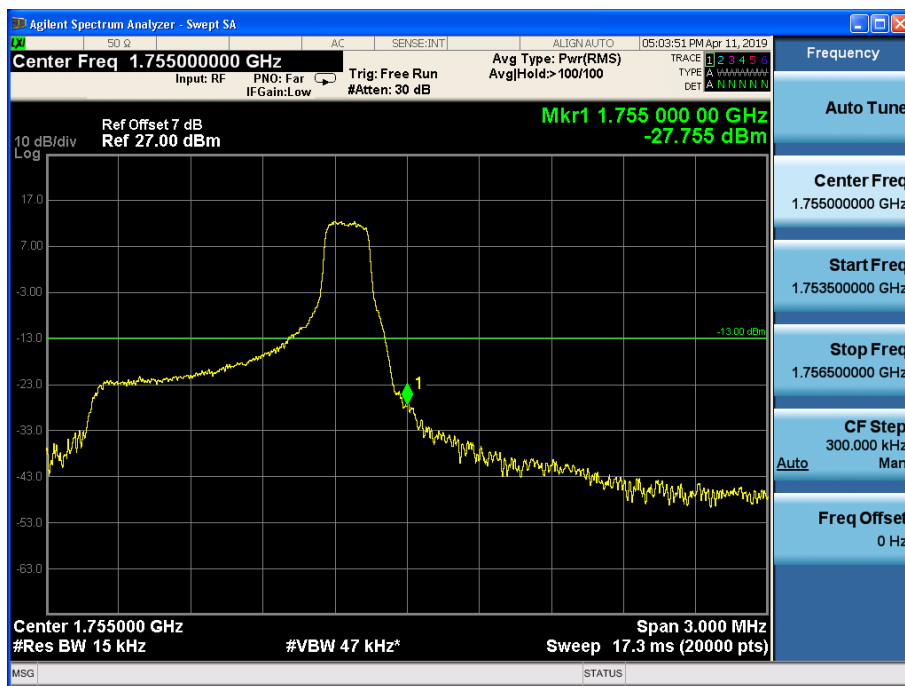


Fig.1

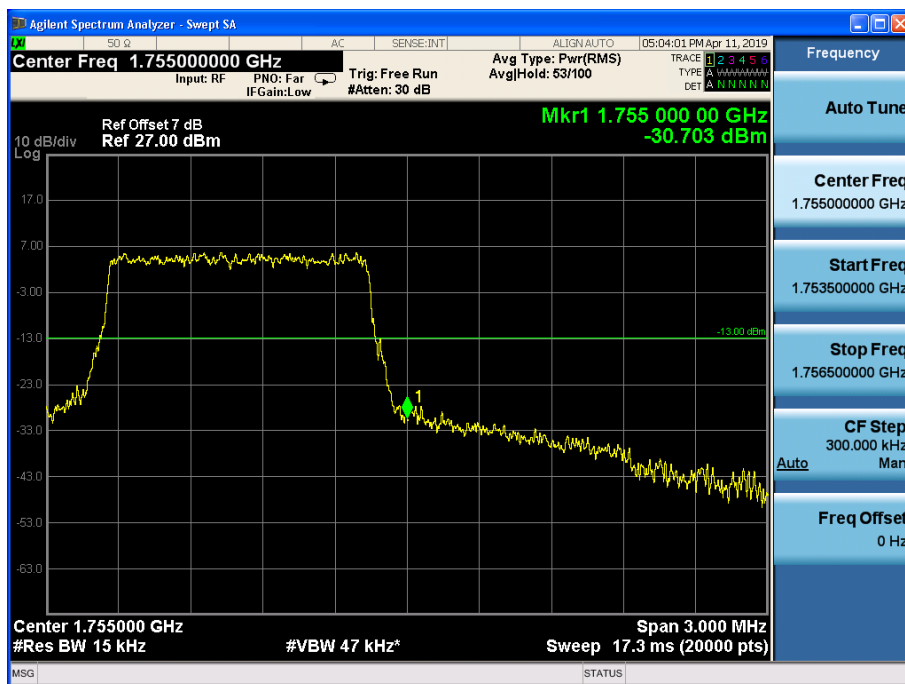


Fig.4

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
4	1711.5	19965	3	1	0	Fig.1
				15	0	Fig.4

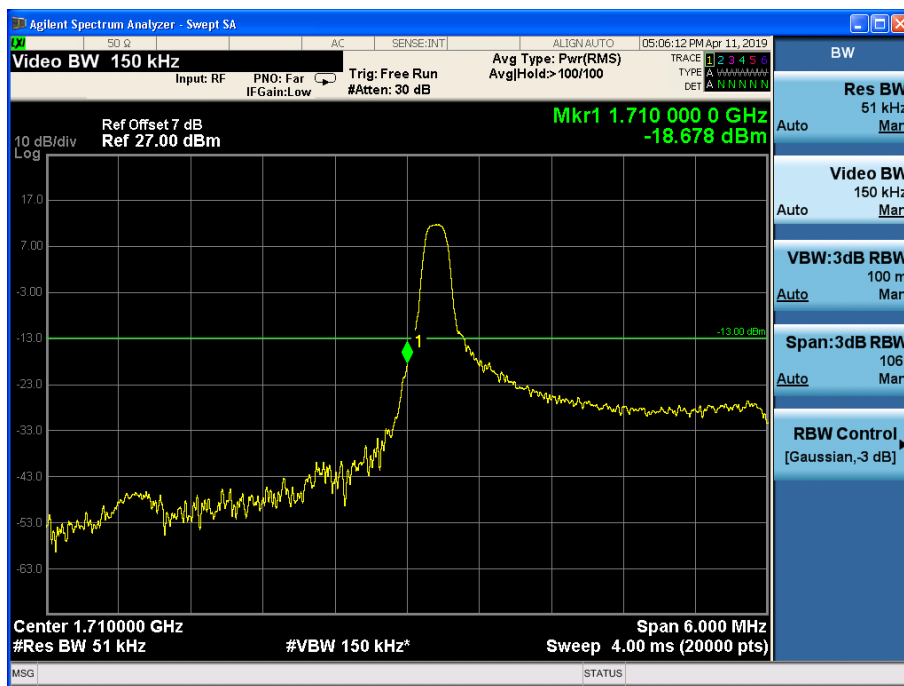


Fig.1

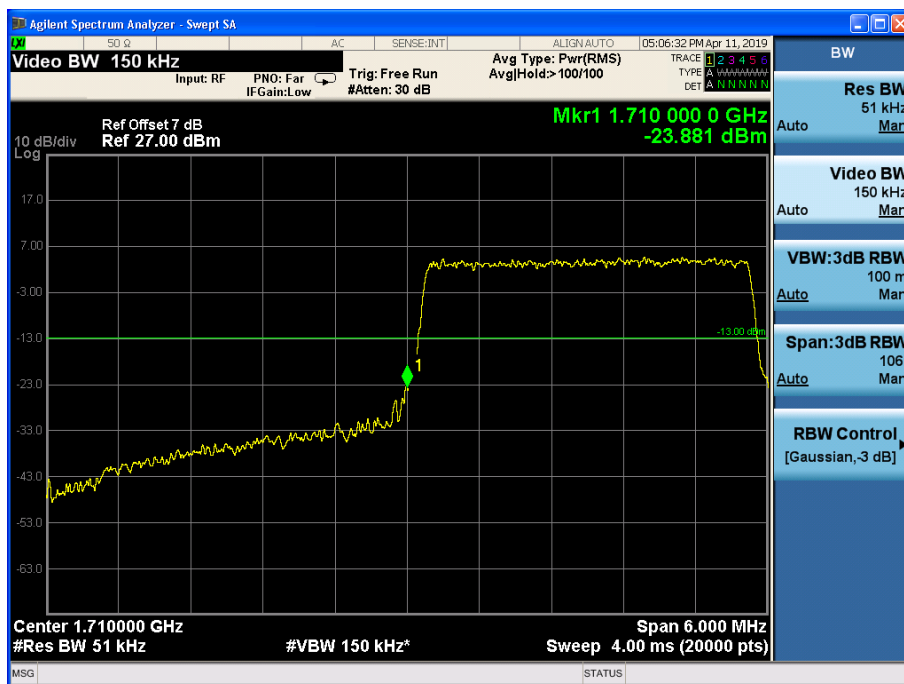


Fig.4

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
4	1753.5	20385	3	1	0	Fig.1
				15	0	Fig.4

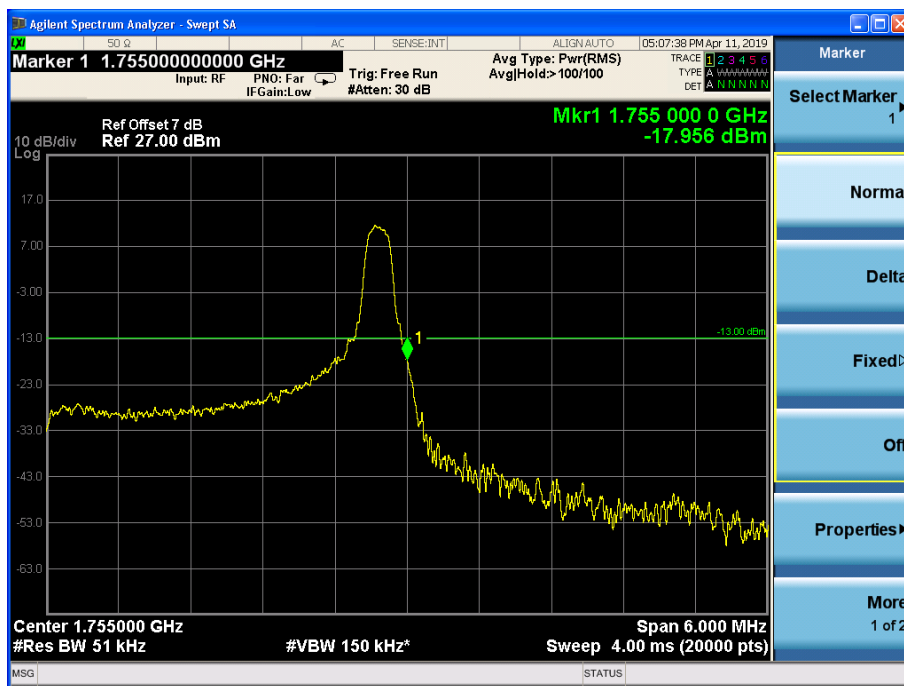


Fig.1



Fig.4

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
4	1712.5	19975	5	1	0	Fig.1
				25	0	Fig.4

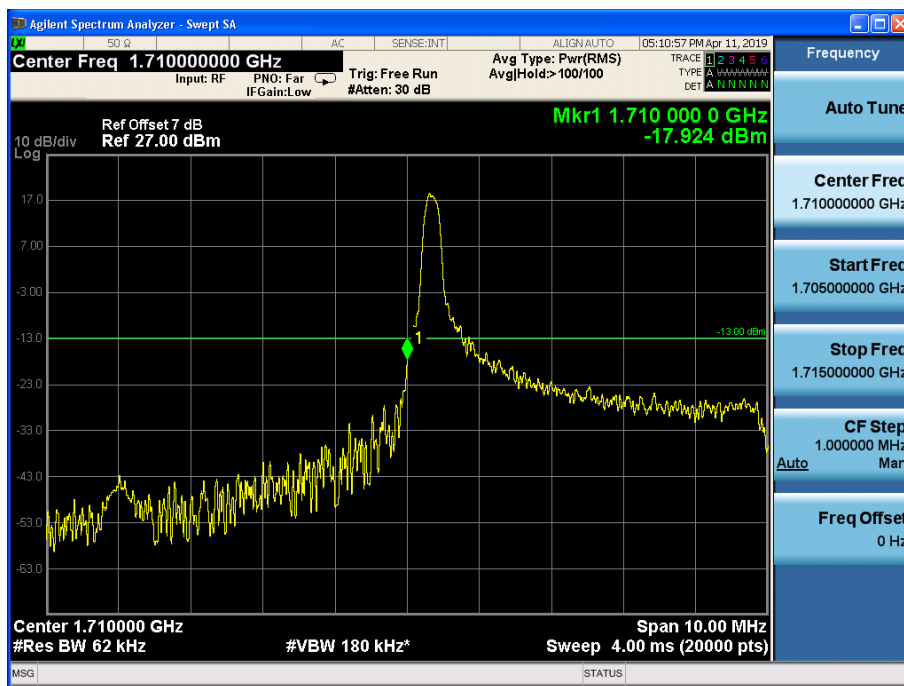


Fig.1

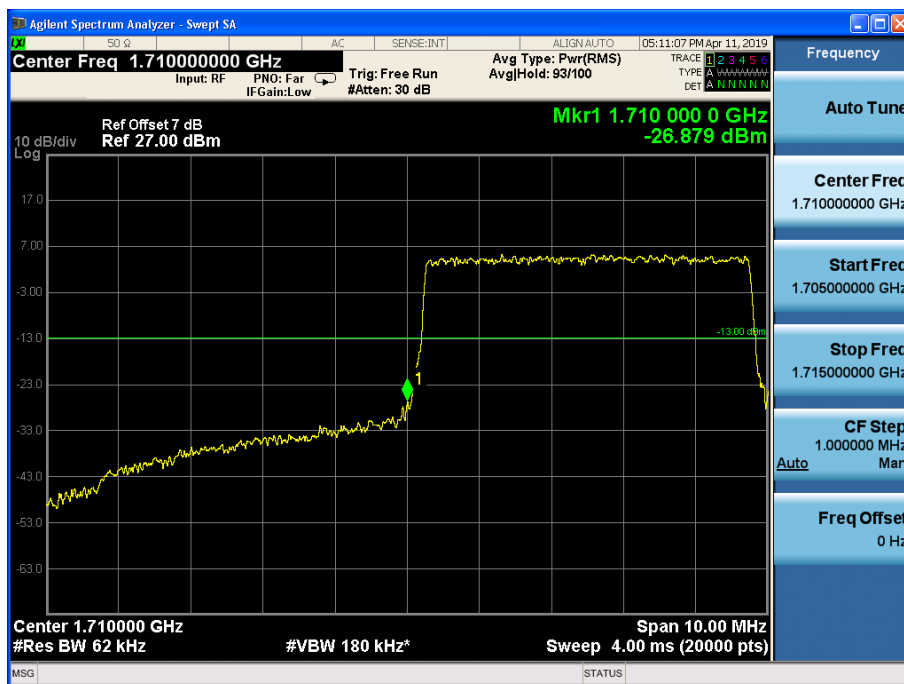


Fig.4

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
4	1752.5	20375	5	1	0	Fig.1
				25	0	Fig.4

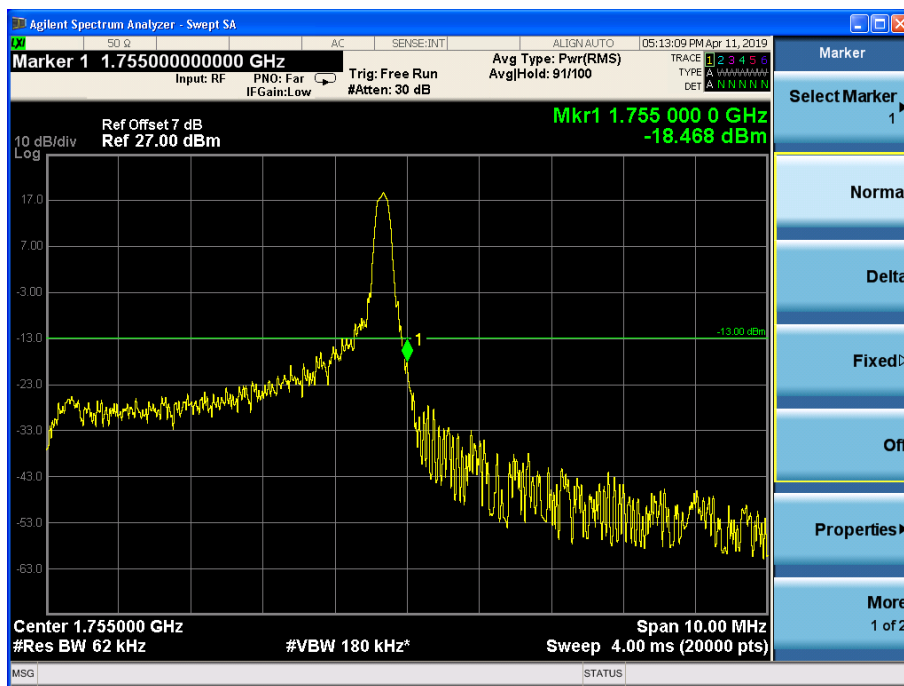


Fig.1



Fig.4

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
4	1715	20000	10	1	0	Fig.1
				50	0	Fig.4

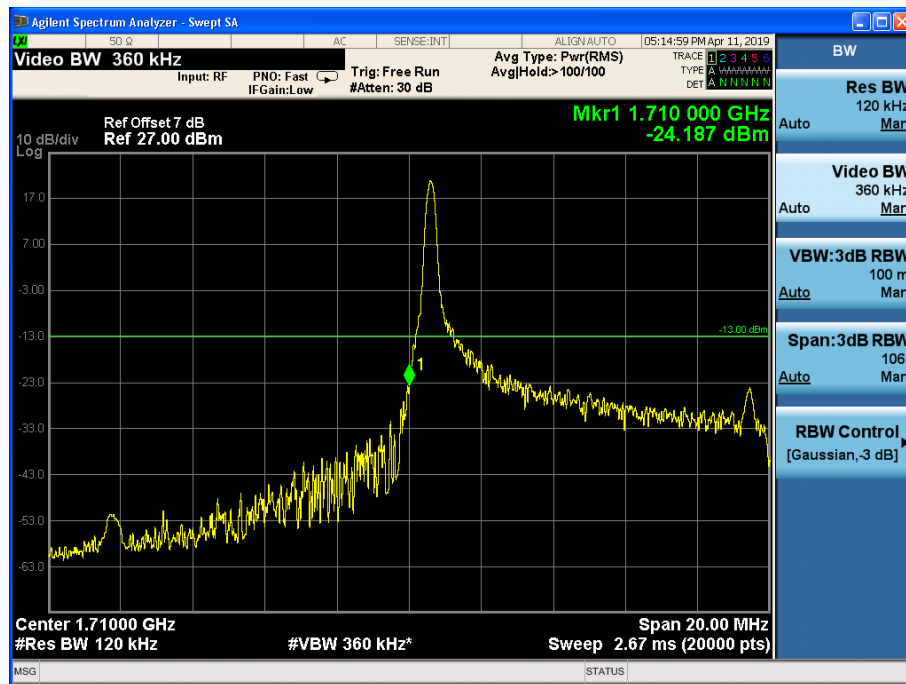


Fig.1

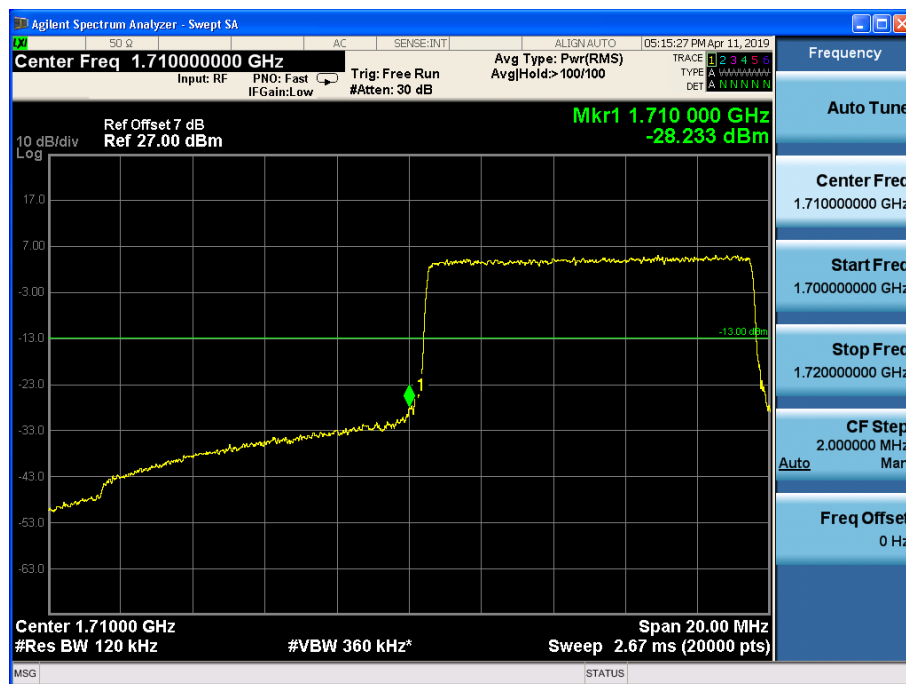


Fig.4

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
4	1750	20350	10	1	0	Fig.1
				50	0	Fig.4

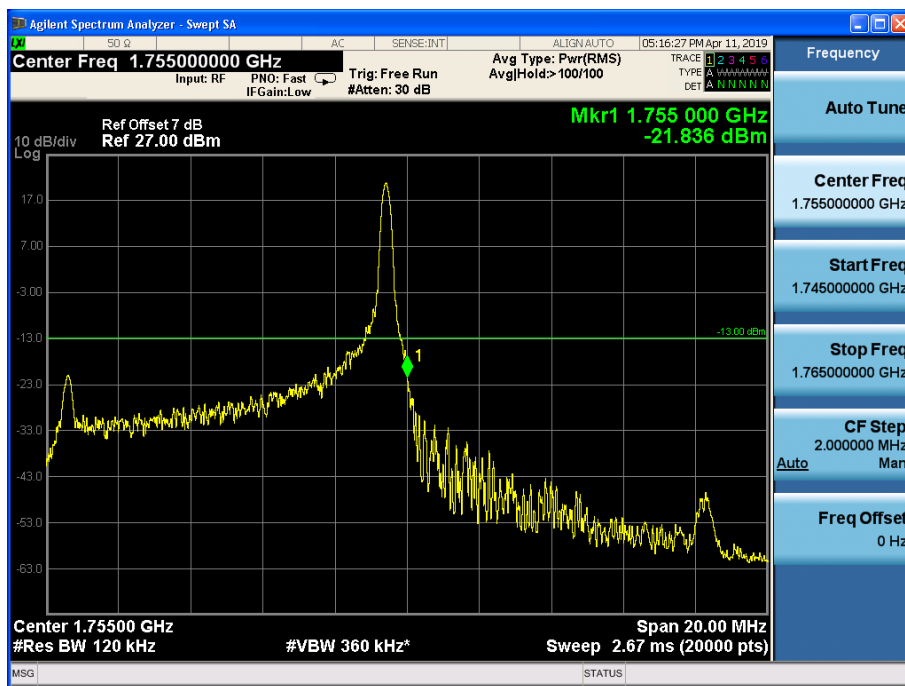


Fig.1

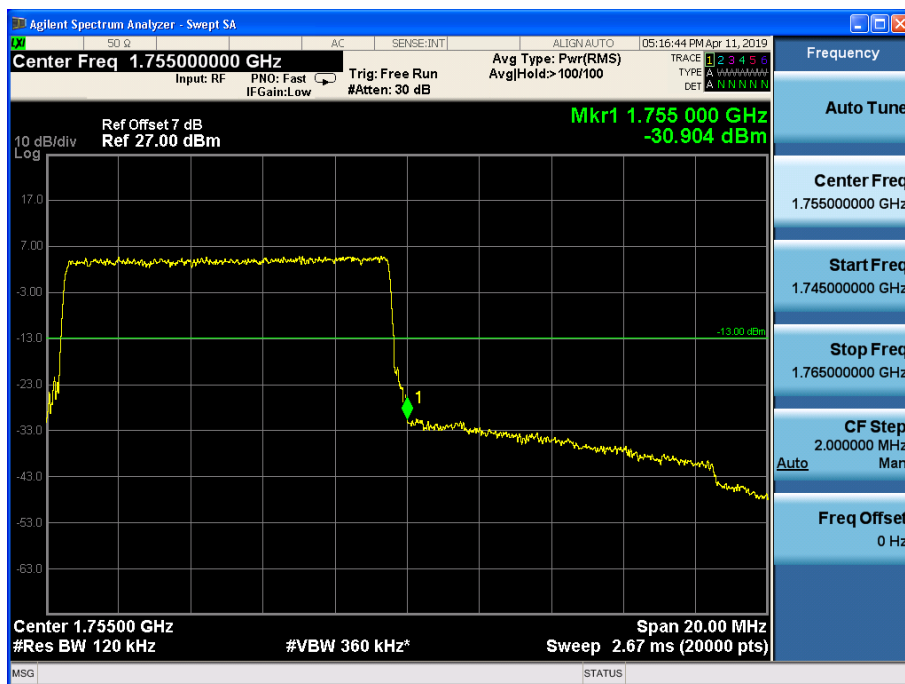


Fig.4

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
4	1717.5	20025	15	1	0	Fig.1
				75	0	Fig.4

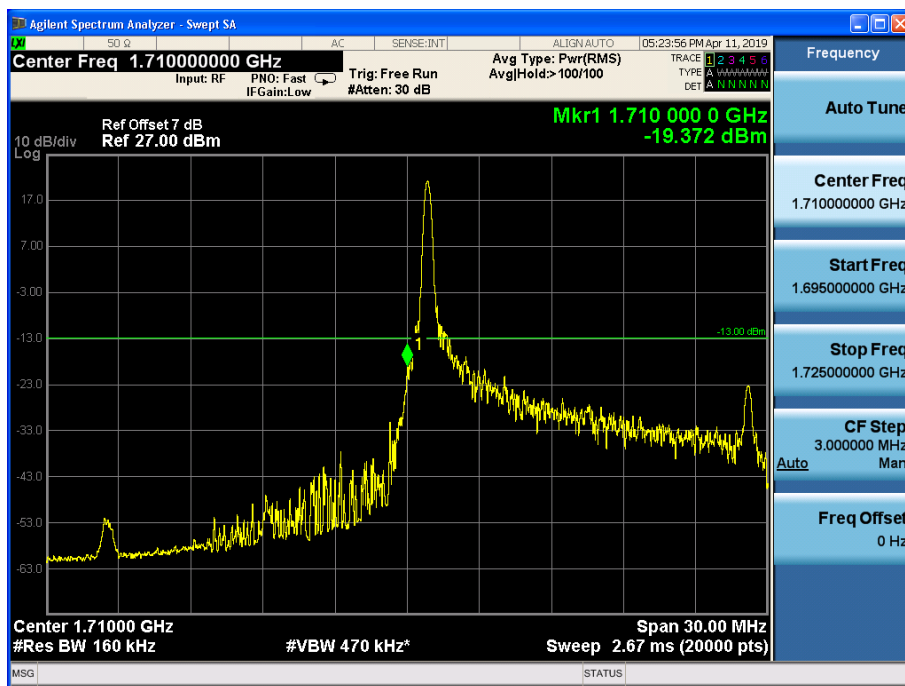


Fig.1

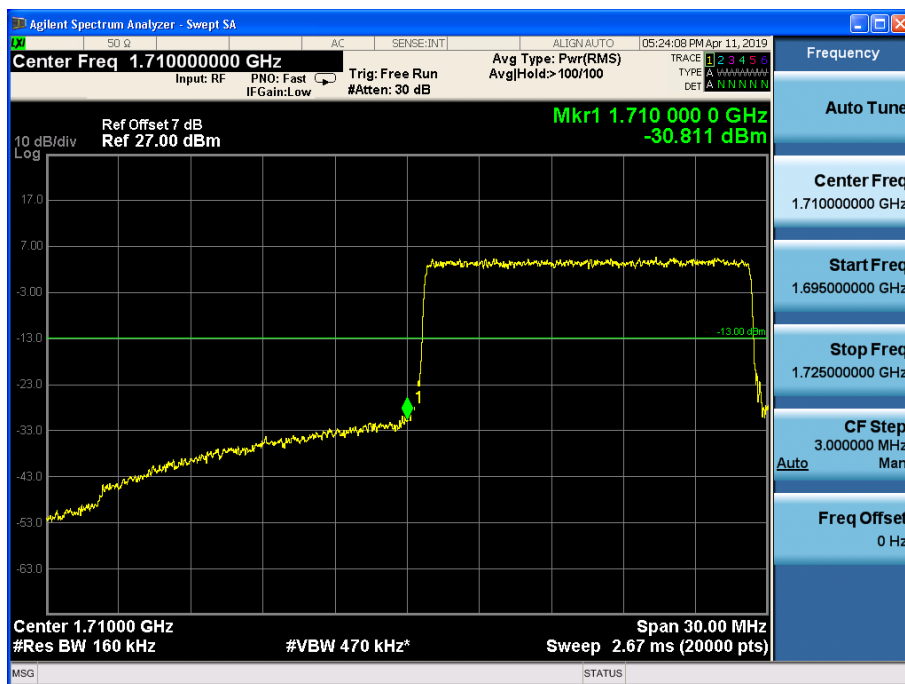
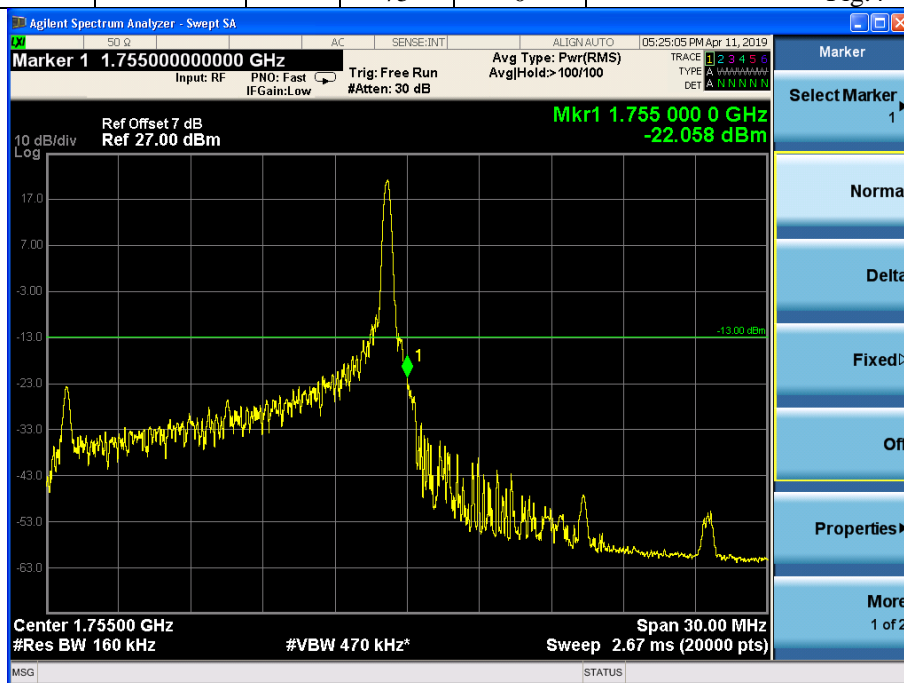


Fig.4

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
4	1747.5	20325	15	1	0	Fig.1
				75	0	Fig.4



94
Fig.1

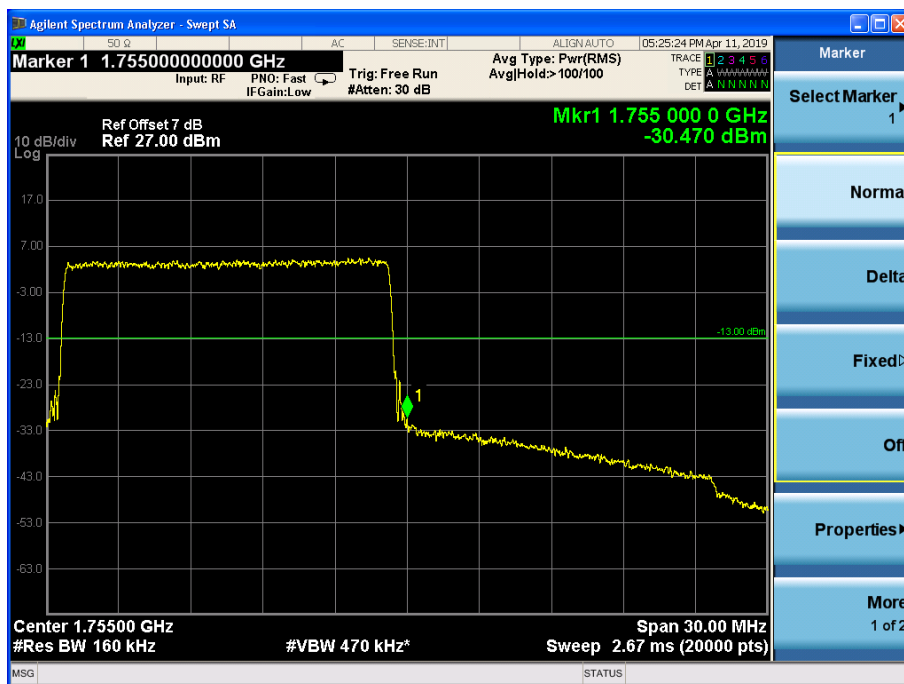


Fig.4

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
4	1720	20050	20	1	0	Fig.1
				100	0	Fig.4

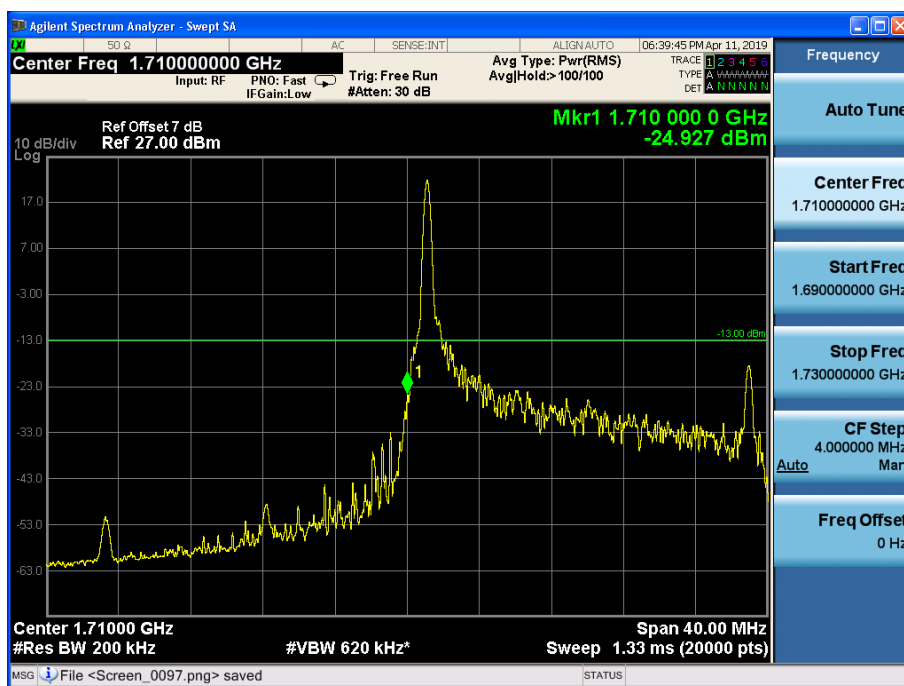


Fig.1

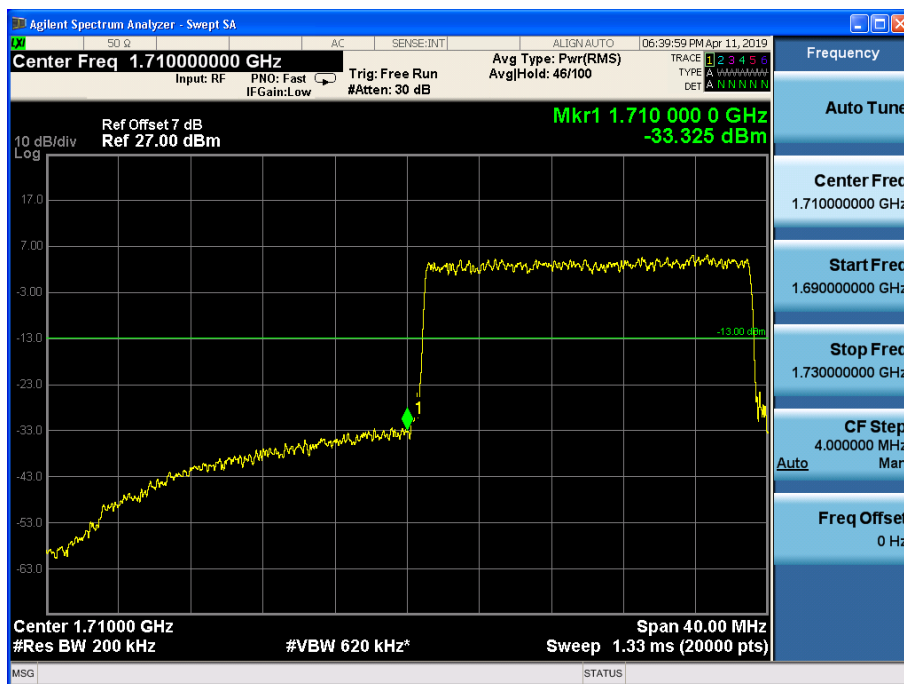


Fig.4

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
4	1745	20300	20	1	0	Fig.1
				100	0	Fig.4

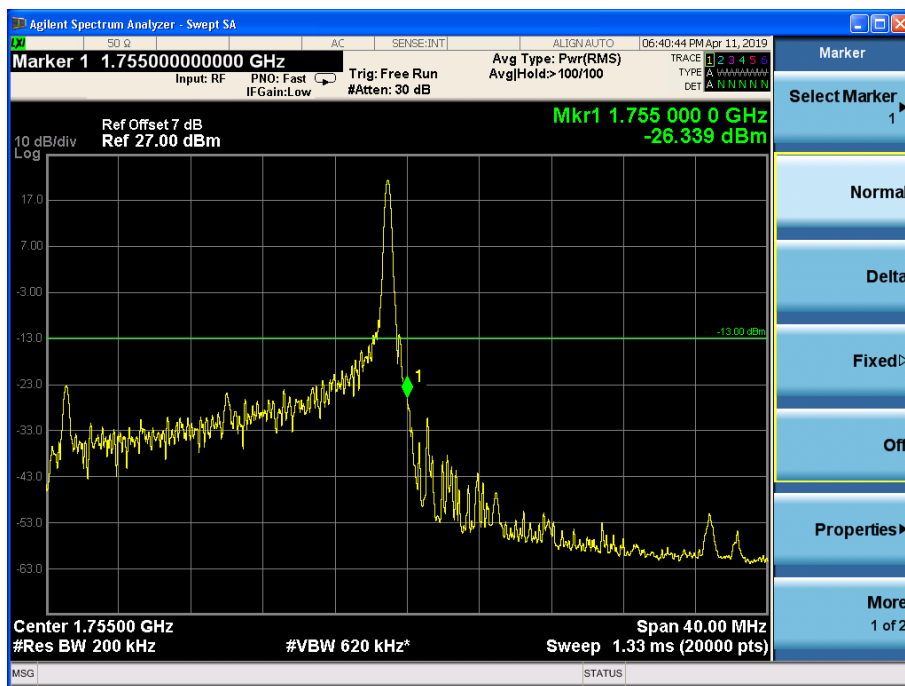


Fig.1



Fig.4

6 Frequency Stability

Test result:

Temperature(°C)	Voltage	Test Result (ppm) Band4 Low Channel					
		1.4M	3M	5M	10M	15M	20M
0	NV	0.012	0.002	0.003	0.000	0.005	0.004
+10	NV	0.000	-0.015	0.005	-0.012	0.012	-0.012
+20	NV	-0.001	-0.004	0.002	-0.008	-0.012	0.008
+30	NV	0.003	-0.009	-0.010	-0.001	0.007	0.011
+40	NV	-0.006	0.002	-0.011	-0.008	-0.005	0.014
+50	NV	0.018	0.012	-0.008	0.009	0.013	0.010
+55	NV	-0.025	0.006	-0.009	-0.010	-0.004	-0.014
+20	LV	0.022	0.013	0.005	-0.008	-0.007	-0.006
+20	HV	-0.008	0.014	0.005	0.010	0.009	0.003

Temperature(°C)	Voltage	Test Result (ppm) Band4 High Channel					
		1.4M	3M	5M	10M	15M	20M
0	NV	0.001	-0.024	-0.020	-0.019	-0.013	0.002
+10	NV	-0.014	0.025	-0.002	-0.013	-0.002	-0.011
+20	NV	0.001	0.007	0.013	0.003	-0.009	0.005
+30	NV	-0.013	-0.004	-0.014	0.010	-0.003	-0.004
+40	NV	0.017	0.007	-0.009	-0.010	-0.009	0.012
+50	NV	0.001	-0.002	-0.008	0.008	-0.009	0.006
+55	NV	0.020	0.013	0.006	-0.006	-0.010	0.000
+20	LV	0.018	-0.009	0.000	-0.014	-0.003	-0.005
+20	HV	0.013	0.012	-0.003	-0.003	-0.001	-0.004