

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 2

1 RF Power Output

Antenna Gain=-1.6dBi

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1850.7	18607	1.4	1	0	22.65
				1	5	22.65
				3	2	22.54
				6	0	22.45
	1880	18900		1	0	22.63
				1	5	22.63
				3	2	22.50
				6	0	22.45
	1909.3	19193		1	0	22.58
				1	5	22.58
				3	2	22.43
				6	0	22.38
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1850.7	18607	1.4	1	0	22.34
				1	5	22.34
				3	2	21.12
				6	0	21.08
	1880	18900		1	0	22.37
				1	5	22.37
				3	2	21.20
				6	0	21.15
	1909.3	19193		1	0	22.40
				1	5	22.40
				3	2	21.24
				6	0	21.16
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1850.7	18607	1.4	1	0	22.38
				1	5	22.38
				3	2	21.32
				6	0	21.27
	1880	18900		1	0	22.40
				1	5	22.40
				3	2	21.32
				6	0	21.29
	1909.3	19193		1	0	22.38
				1	5	22.38
				3	2	21.32
				6	0	21.20

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1851.5	18615	3	1	0	22.73
				1	14	22.73
				8	4	22.62
				15	0	22.53
	1880	18900		1	0	22.69
				1	14	22.69
				8	4	22.56
				15	0	22.51
	1908.5	19185		1	0	22.70
				1	14	22.70
				8	4	22.55
				15	0	22.50
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1851.5	18615	3	1	0	22.42
				1	14	22.42
				8	4	21.20
				15	0	21.16
	1880	18900		1	0	22.43
				1	14	22.43
				8	4	21.26
				15	0	21.21
	1908.5	19185		1	0	22.52
				1	14	22.52
				8	4	21.36
				15	0	21.28
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1851.5	18615	3	1	0	22.46
				1	14	22.46
				8	4	21.40
				15	0	21.35
	1880	18900		1	0	22.46
				1	14	22.46
				8	4	21.38
				15	0	21.35
	1908.5	19185		1	0	22.50
				1	14	22.50
				8	4	21.44
				15	0	21.32

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1852.5	18625	5	1	0	22.77
				1	24	22.77
				12	6	22.66
				25	0	22.57
	1880	18900		1	0	22.74
				1	24	22.74
				12	6	22.61
				25	0	22.56
	1907.5	19175		1	0	22.66
				1	24	22.66
				12	6	22.51
				25	0	22.46
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1852.5	18625	5	1	0	22.46
				1	24	22.46
				12	6	21.24
				25	0	21.20
	1880	18900		1	0	22.48
				1	24	22.48
				12	6	21.31
				25	0	21.26
	1907.5	19175		1	0	22.48
				1	24	22.48
				12	6	21.32
				25	0	21.24
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1852.5	18625	5	1	0	22.50
				1	24	22.50
				12	6	21.44
				25	0	21.39
	1880	18900		1	0	22.51
				1	24	22.51
				12	6	21.43
				25	0	21.40
	1907.5	19175		1	0	22.46
				1	24	22.46
				12	6	21.40
				25	0	21.28

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1855	18650	10	1	0	22.81
				1	49	22.81
				24	12	22.70
				50	0	22.61
	1880	18900		1	0	22.71
				1	49	22.71
				24	12	22.58
				50	0	22.53
	1905	19150		1	0	22.74
				1	49	22.74
				24	12	22.59
				50	0	22.54
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1855	18650	10	1	0	22.50
				1	49	22.50
				24	12	21.28
				50	0	21.24
	1880	18900		1	0	22.45
				1	49	22.45
				24	12	21.28
				50	0	21.23
	1905	19150		1	0	22.56
				1	49	22.56
				24	12	21.40
				50	0	21.32
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1855	18650	10	1	0	22.54
				1	49	22.54
				24	12	21.48
				50	0	21.43
	1880	18900		1	0	22.48
				1	49	22.48
				24	12	21.40
				50	0	21.37
	1905	19150		1	0	22.54
				1	49	22.54
				24	12	21.48
				50	0	21.36

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1857.5	18675	15	1	0	22.87
				1	74	22.87
				40	18	22.76
				75	0	22.67
	1880	18900		1	0	22.77
				1	74	22.77
				40	18	22.64
				75	0	22.59
	1902.5	19125		1	0	22.75
				1	74	22.75
				40	18	22.60
				75	0	22.55
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1857.5	18675	15	1	0	22.54
				1	74	22.54
				40	18	21.32
				75	0	21.28
	1880	18900		1	0	22.53
				1	74	22.53
				40	18	21.36
				75	0	21.31
	1902.5	19125		1	0	22.59
				1	74	22.59
				40	18	21.43
				75	0	21.35
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1857.5	18675	15	1	0	22.60
				1	74	22.60
				40	18	21.54
				75	0	21.49
	1880	18900		1	0	22.53
				1	74	22.53
				40	18	21.45
				75	0	21.42
	1902.5	19125		1	0	22.57
				1	74	22.57
				40	18	21.51
				75	0	21.39

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1860	18700	20	1	0	22.98
				1	99	22.98
				50	25	22.87
				100	0	22.78
	1880	18900		1	0	22.90
				1	99	22.90
				50	25	22.77
				100	0	22.72
	1900	19100		1	0	22.89
				1	99	22.89
				50	25	22.74
				100	0	22.69
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1860	18700	20	1	0	22.67
				1	99	22.67
				50	25	21.45
				100	0	21.41
	1880	18900		1	0	22.64
				1	99	22.64
				50	25	21.47
				100	0	21.42
	1900	19100		1	0	22.71
				1	99	22.71
				50	25	21.55
				100	0	21.47
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1860	18700	20	1	0	22.71
				1	99	22.71
				50	25	21.65
				100	0	21.60
	1880	18900		1	0	22.67
				1	99	22.67
				50	25	21.59
				100	0	21.56
	1900	19100		1	0	22.69
				1	99	22.69
				50	25	21.63
				100	0	21.51

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	
2	1850.7	18607	1.4	6	0	1.1034	Fig.1	1.0964	Fig.2	1.0978	Fig.3
2	1880.0	18900	1.4	6	0	1.1022	Fig.4	1.1029	Fig.5	1.0992	Fig.6
2	1909.3	19193	1.4	6	0	1.0977	Fig.7	1.1003	Fig.8	1.0976	Fig.9

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
2	1850.7	18607	1.4	6	0	1.379	Fig.1	1.360	Fig.2	1.379	Fig.3
2	1880.0	18900	1.4	6	0	1.343	Fig.4	1.349	Fig.5	1.317	Fig.6
2	1909.3	19193	1.4	6	0	1.337	Fig.7	1.337	Fig.8	1.346	Fig.9

Fig.1

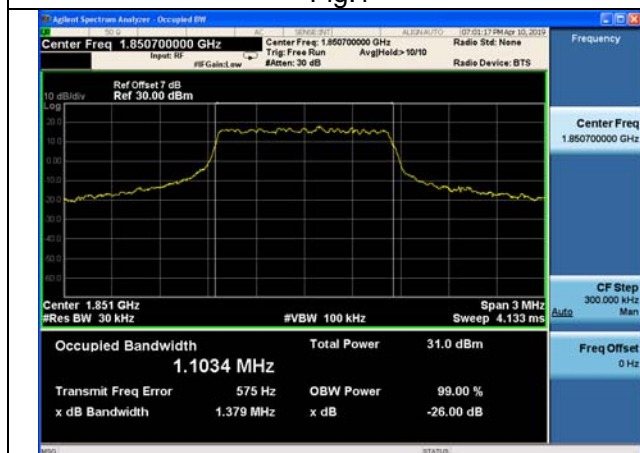


Fig.2

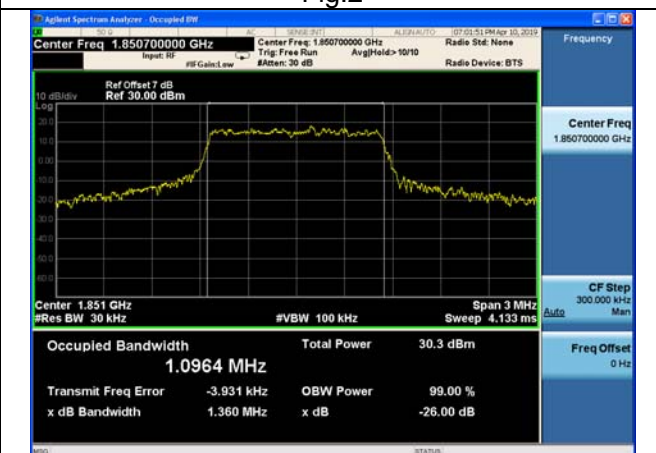


Fig.3

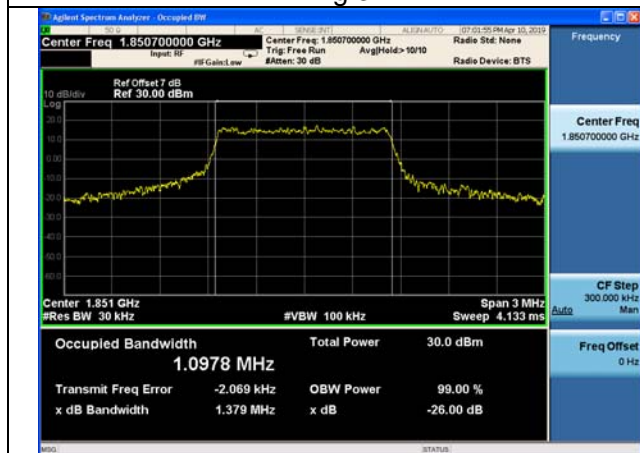


Fig.4

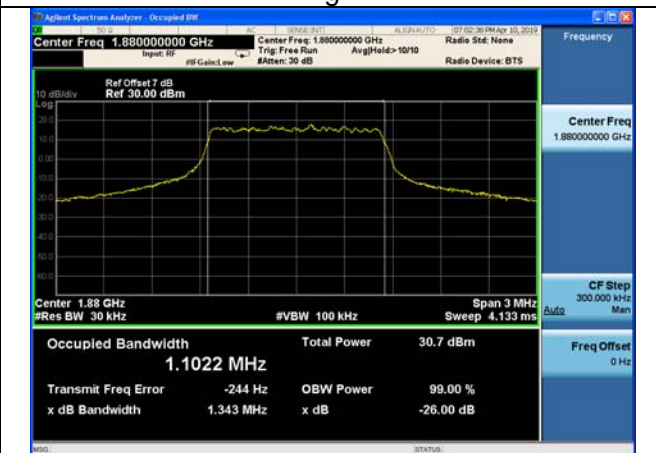


Fig.5



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	
2	1851.5	18615	3	15	0	2.6914	Fig.1	2.6874	Fig.2	2.6906	Fig.3
2	1880.0	18900	3	15	0	2.6916	Fig.4	2.6905	Fig.5	2.6899	Fig.6
2	1908.5	19185	3	15	0	2.6890	Fig.7	2.6882	Fig.8	2.6875	Fig.9

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
2	1851.5	18615	3	15	0	3.032	Fig.1	3.056	Fig.2	3.021	Fig.3
2	1880.0	18900	3	15	0	3.086	Fig.4	3.056	Fig.5	3.034	Fig.6
2	1908.5	19185	3	15	0	3.094	Fig.7	3.101	Fig.8	3.035	Fig.9

Fig.1



Fig.2



Fig.3



Fig.4



Fig.5

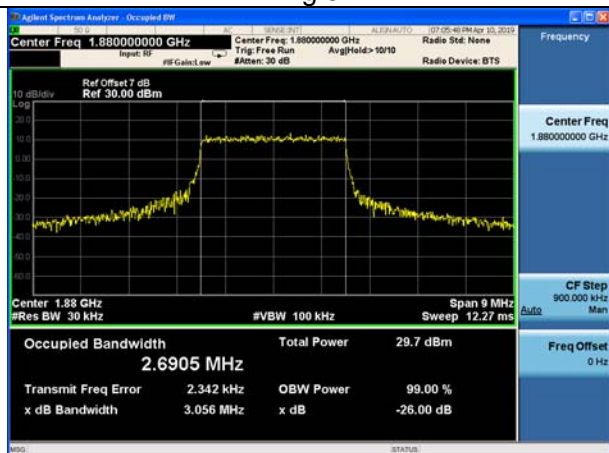


Fig.6

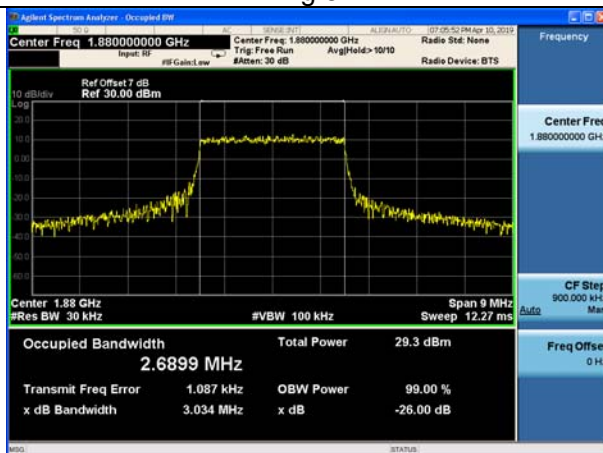


Fig.7

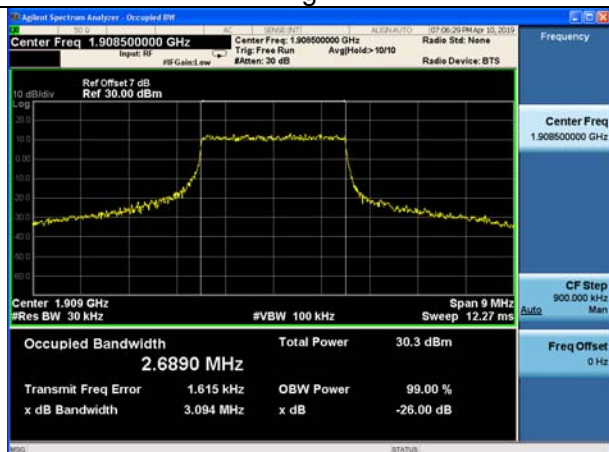


Fig.8

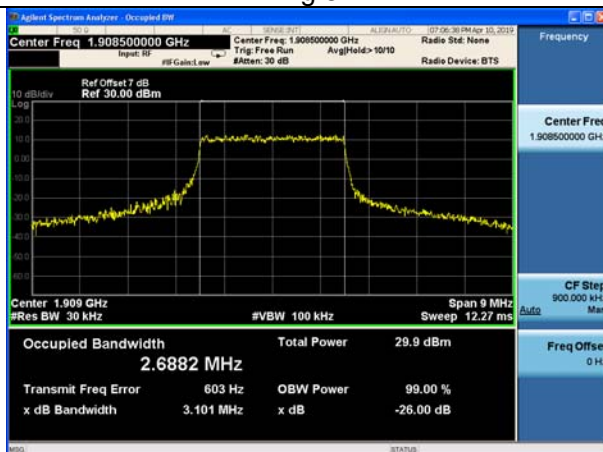


Fig.9



Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
2	1852.5	18625	5	25	0	4.4735	Fig.1	4.4714	Fig.2	4.4625	Fig.3
2	1880.0	18900	5	25	0	4.4753	Fig.4	4.4763	Fig.5	4.4667	Fig.6
2	1907.5	19175	5	25	0	4.4767	Fig.7	4.4794	Fig.8	4.4775	Fig.9

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
2	1852.5	18625	5	25	0	5.033	Fig.1	5.028	Fig.2	4.966	Fig.3
2	1880.0	18900	5	25	0	4.971	Fig.4	5.035	Fig.5	4.916	Fig.6
2	1907.5	19175	5	25	0	5.029	Fig.7	5.000	Fig.8	4.959	Fig.9

Fig.1



Fig.2



Fig.3

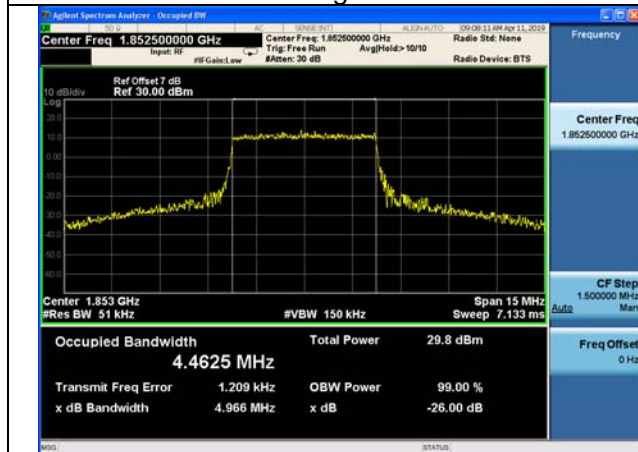


Fig.4

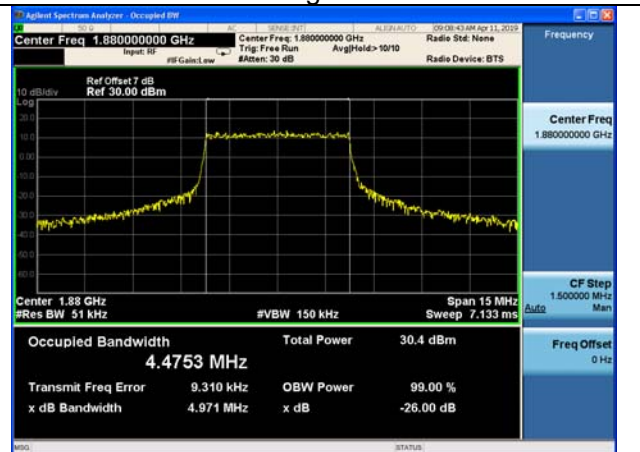


Fig.5

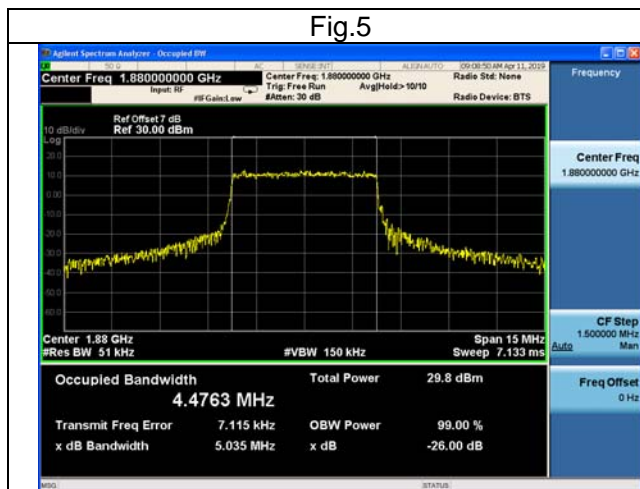


Fig.6

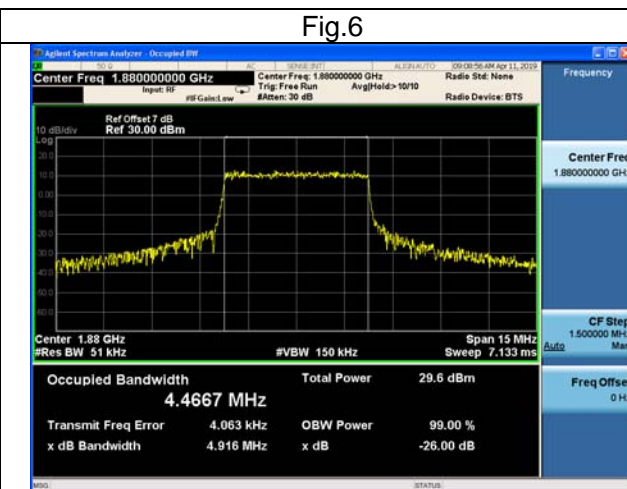


Fig.7

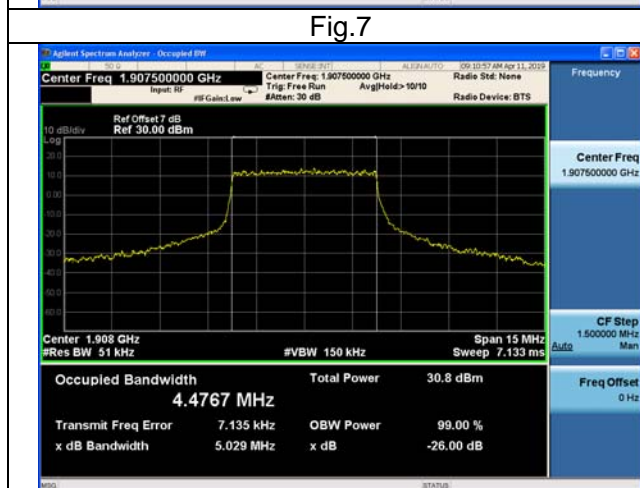


Fig.8

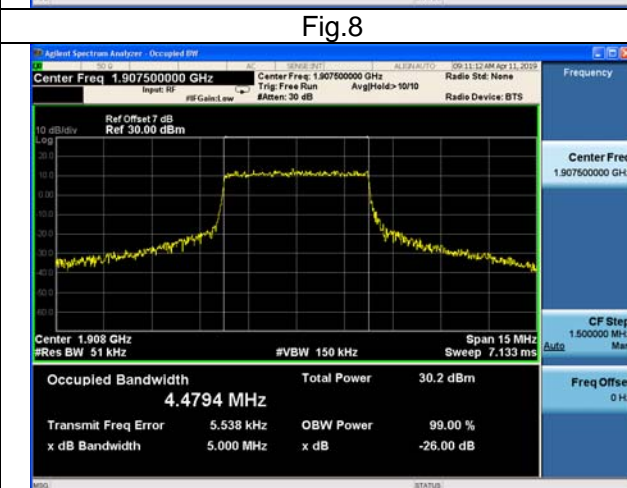
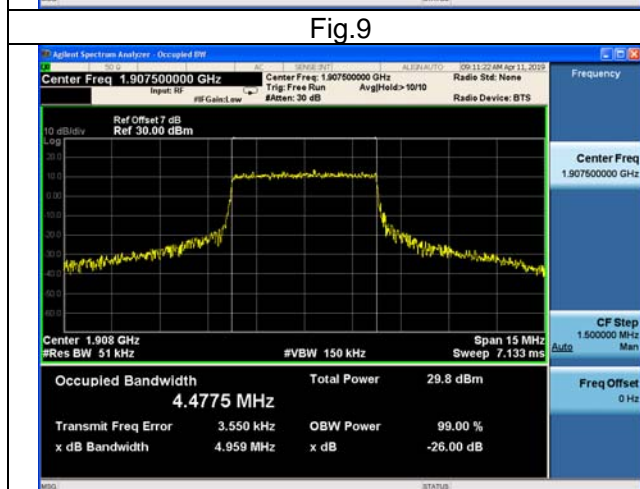


Fig.9



Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
2	1855	18650	10	50	0	9.0873	Fig.1	9.0580	Fig.2	9.0671	Fig.3
2	1880	18900	10	50	0	9.0790	Fig.4	9.0733	Fig.5	9.0703	Fig.6
2	1905	19150	10	50	0	9.0826	Fig.7	9.0704	Fig.8	9.0815	Fig.9

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
2	1855	18650	10	50	0	10.40	Fig.1	10.36	Fig.2	10.08	Fig.3
2	1880	18900	10	50	0	10.75	Fig.4	10.42	Fig.5	10.50	Fig.6
2	1905	19150	10	50	0	10.51	Fig.7	10.60	Fig.8	10.50	Fig.9

Fig.1



Fig.2



Fig.3

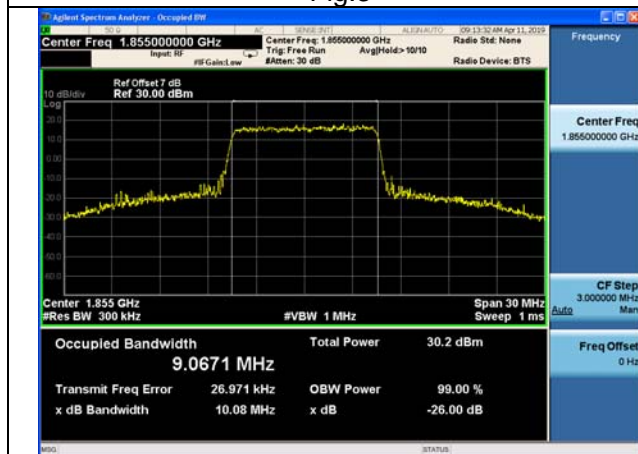


Fig.4

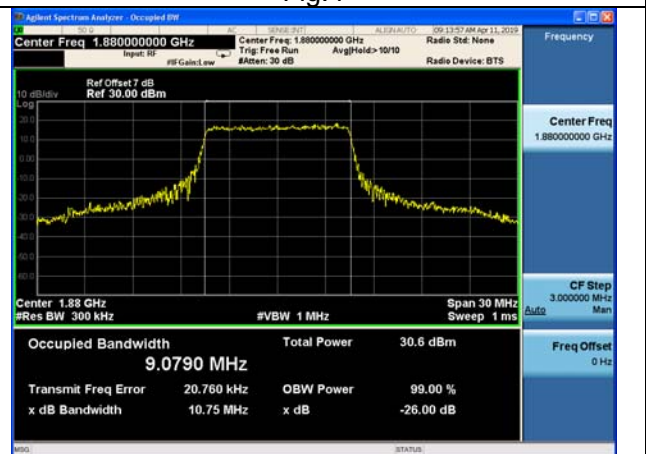


Fig.5

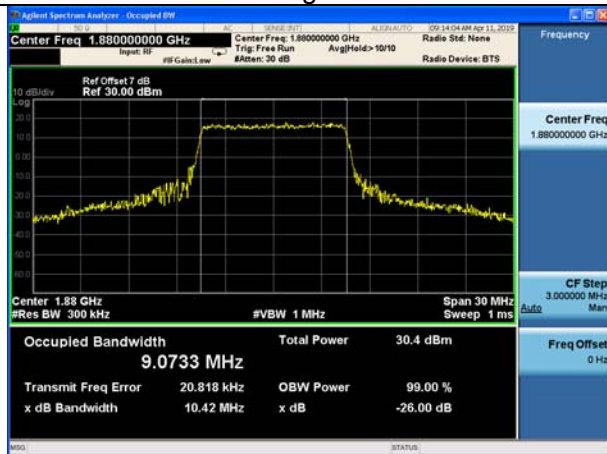


Fig.6



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	
2	1857.5	18675	15	75	0	13.497	Fig.1	13.481	Fig.2	13.509	Fig.3
2	1880.0	18900	15	75	0	13.478	Fig.4	13.502	Fig.5	13.495	Fig.6
2	1902.5	19125	15	75	0	13.520	Fig.7	13.517	Fig.8	13.514	Fig.9

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
2	1857.5	18675	15	75	0	15.23	Fig.1	14.96	Fig.2	14.93	Fig.3
2	1880.0	18900	15	75	0	15.06	Fig.4	15.01	Fig.5	14.90	Fig.6
2	1902.5	19125	15	75	0	15.20	Fig.7	15.22	Fig.8	15.08	Fig.9

Fig.1

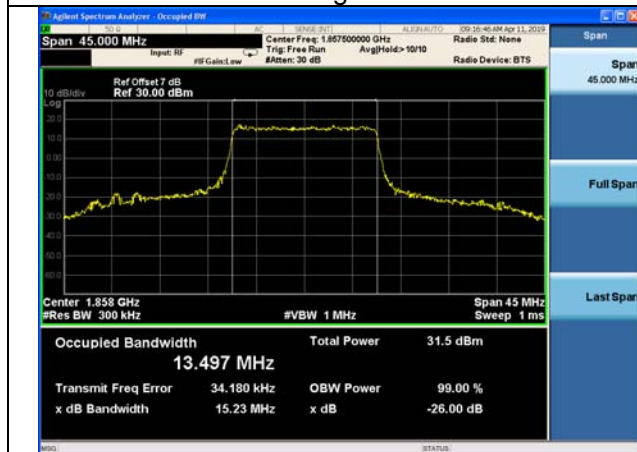


Fig.2

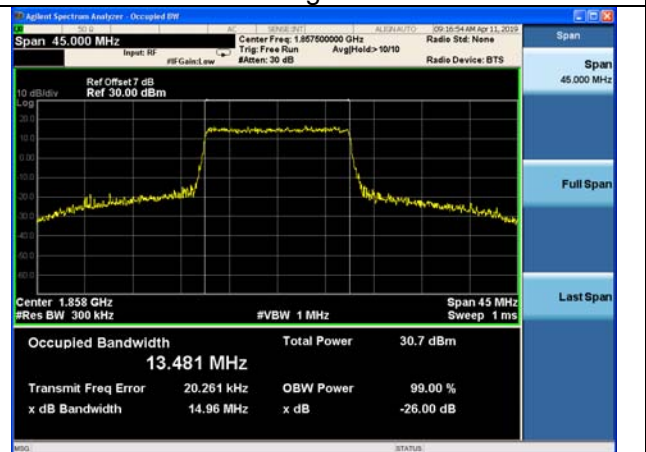


Fig.3

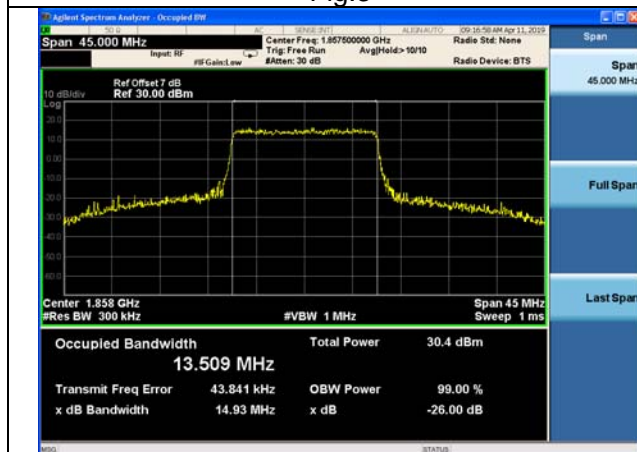


Fig.4

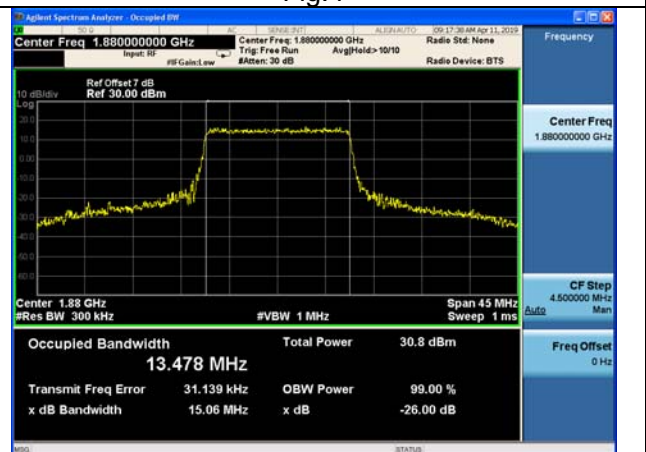


Fig.5

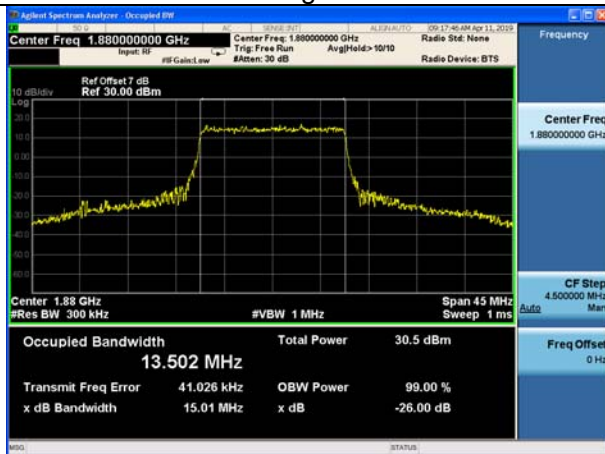


Fig.6

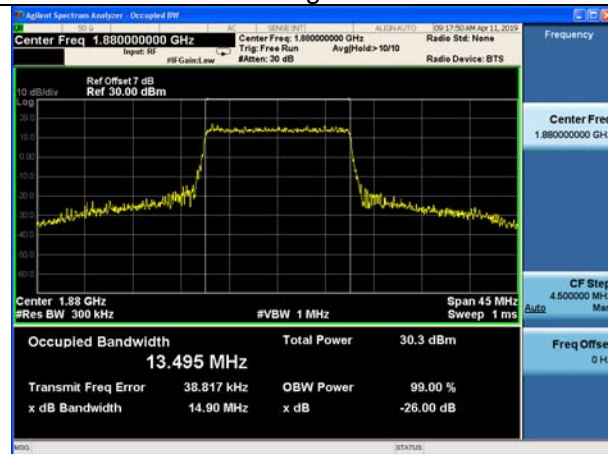


Fig.7



Fig.8

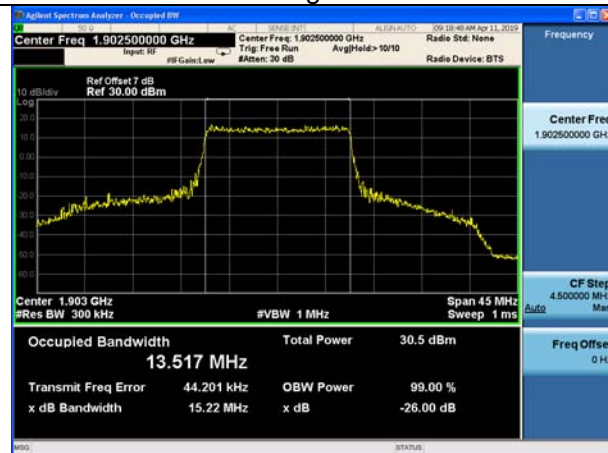
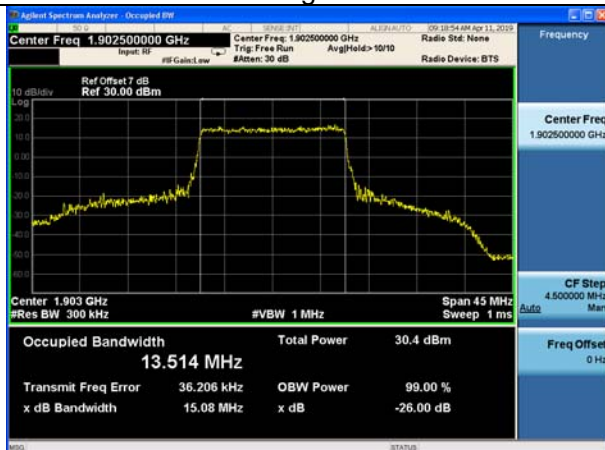


Fig.9



Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
2	1860	18700	20	100	0	17.932	Fig.1	17.930	Fig.2	17.909	Fig.3
2	1880	18900	20	100	0	17.947	Fig.4	17.938	Fig.5	17.940	Fig.6
2	1900	19100	20	100	0	17.980	Fig.7	17.955	Fig.8	17.963	Fig.9

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
2	1860	18700	20	100	0	19.75	Fig.1	19.86	Fig.2	19.75	Fig.3
2	1880	18900	20	100	0	20.13	Fig.4	19.65	Fig.5	19.67	Fig.6
2	1900	19100	20	100	0	20.19	Fig.7	20.09	Fig.8	19.86	Fig.9

Fig.1

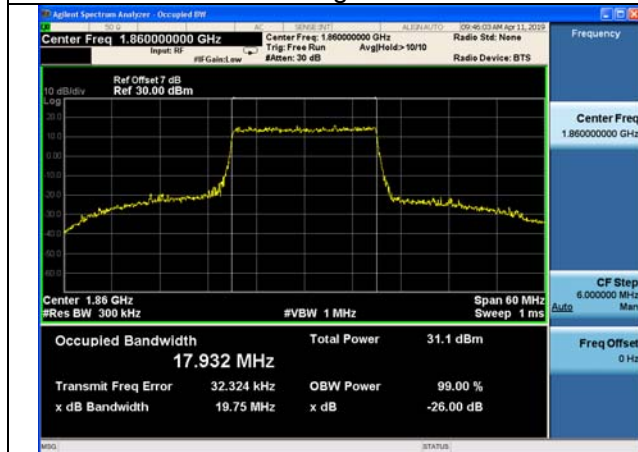


Fig.2



Fig.3



Fig.4



Fig.5

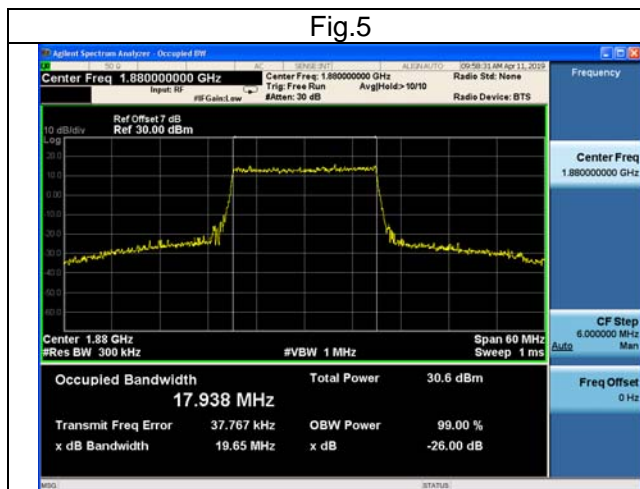


Fig.6

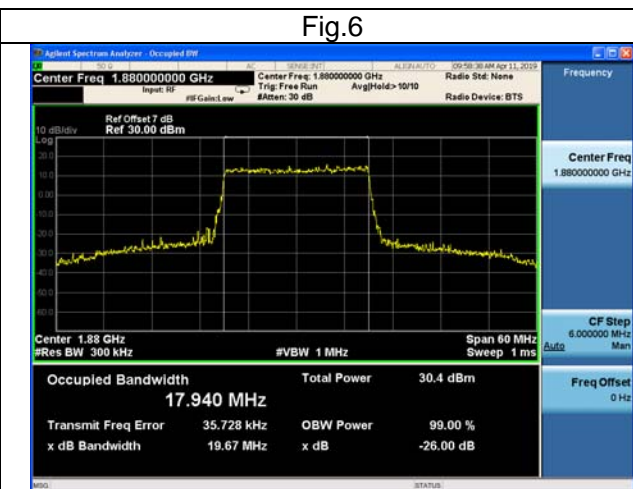


Fig.7

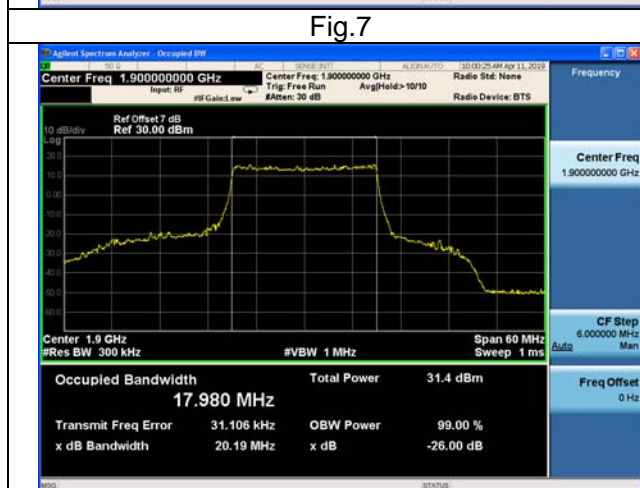


Fig.8

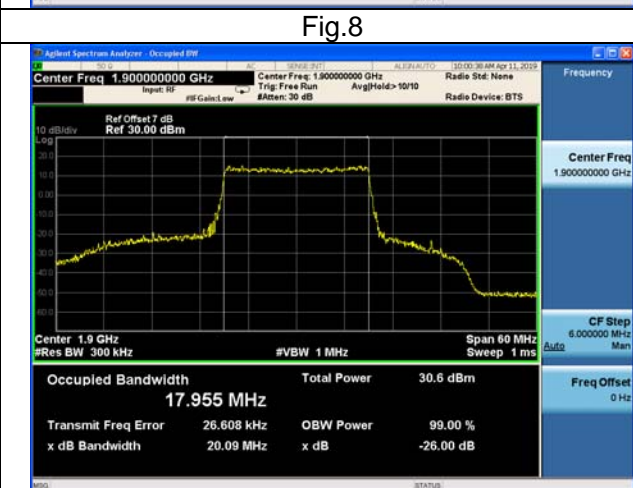
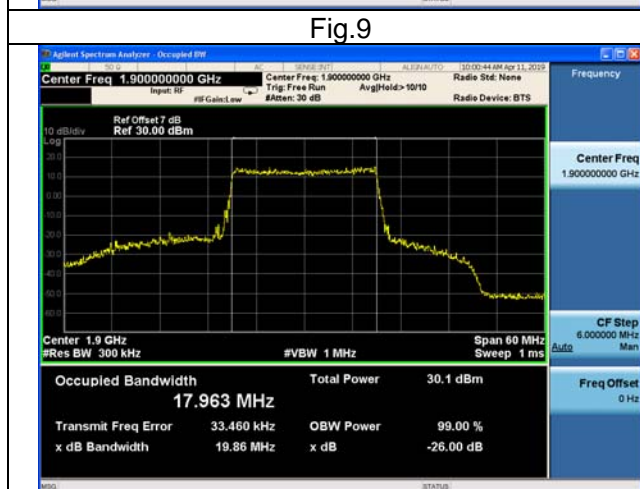
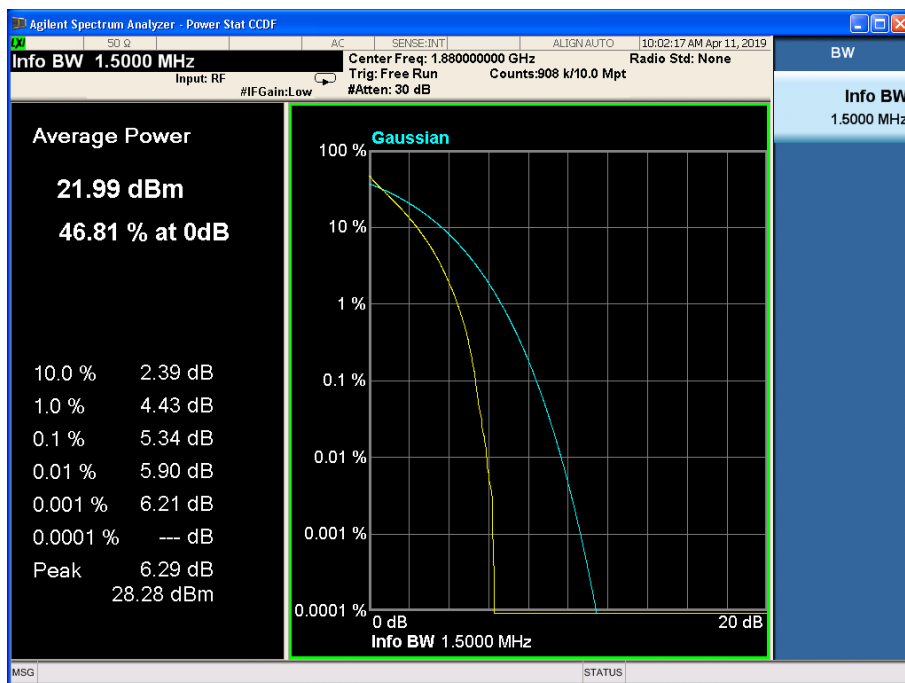


Fig.9

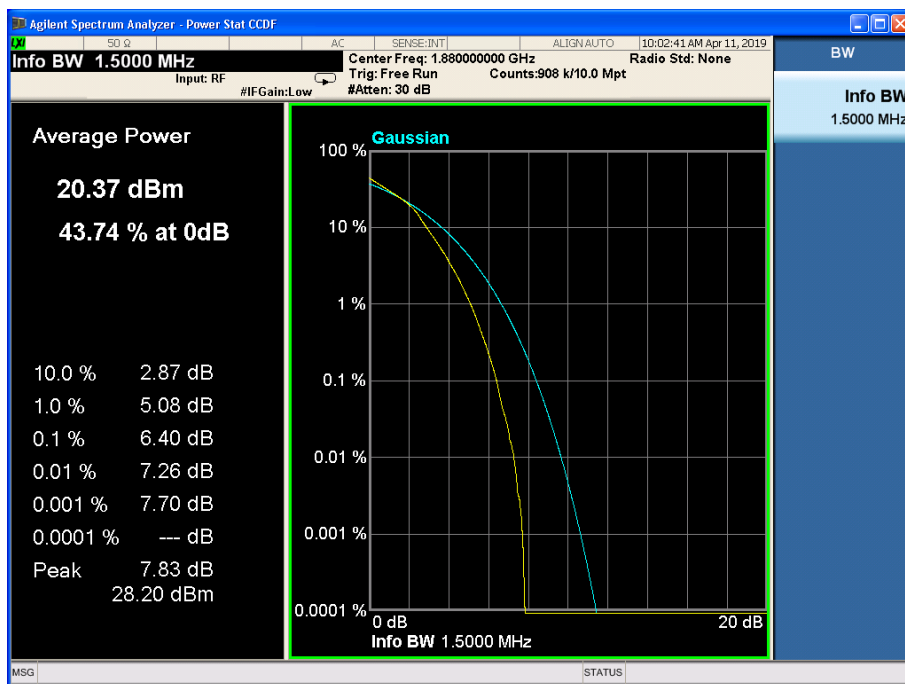


3 Peak-Average Ratio

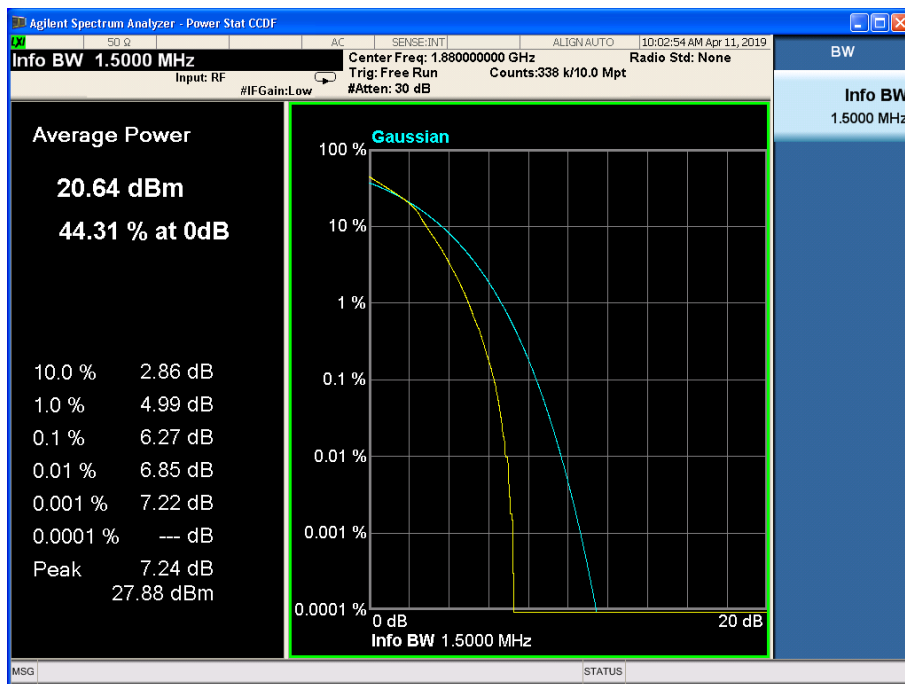
Test result:



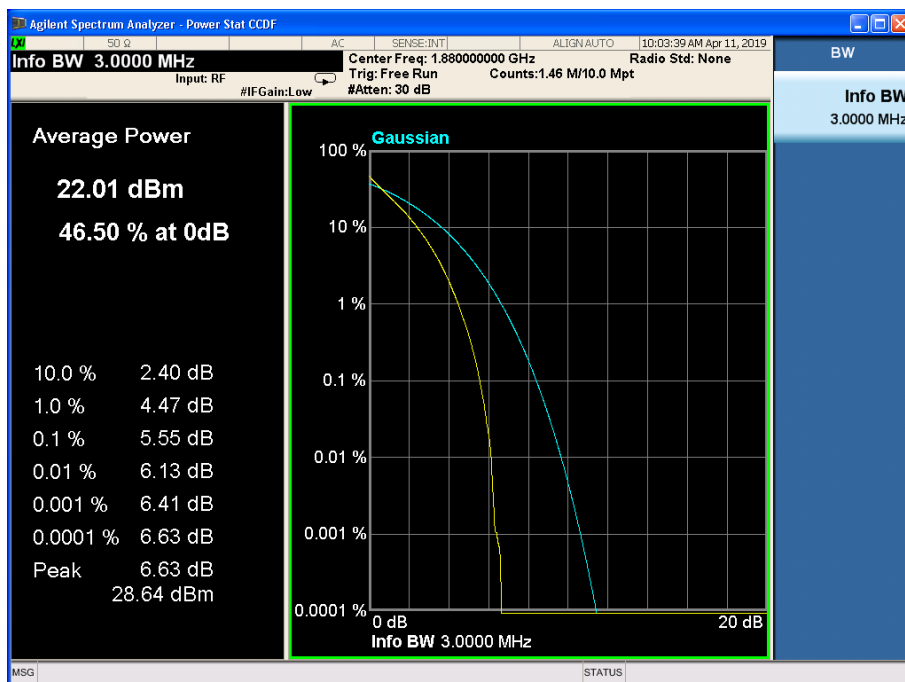
Peak-Average Ratio Plot(1.4MHz BW,QPSK,Band 2-mid Channel)



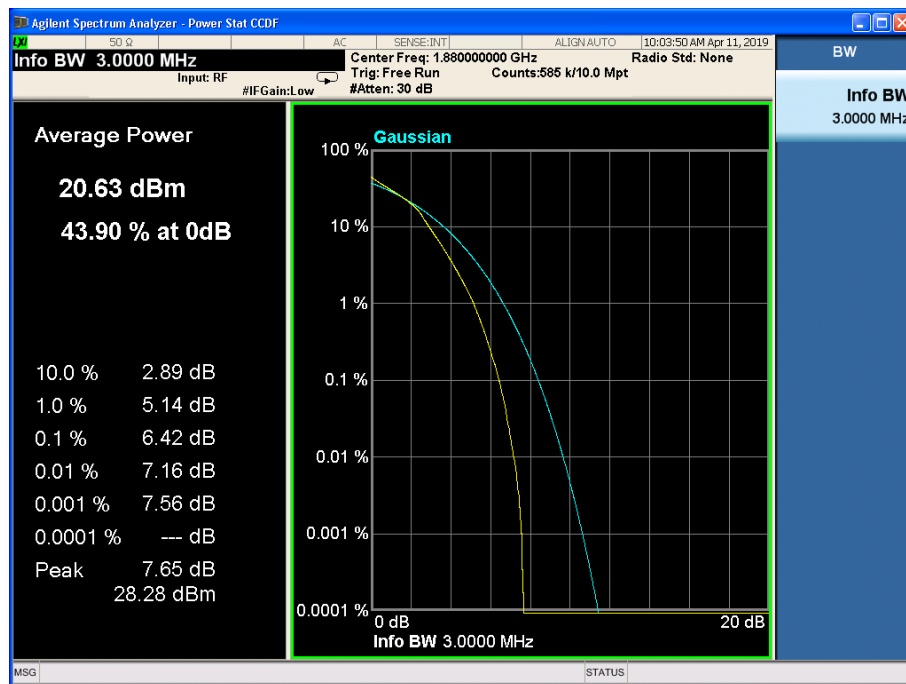
Peak-Average Ratio Plot(1.4MHz BW,16QAM,Band 2-mid Channel)



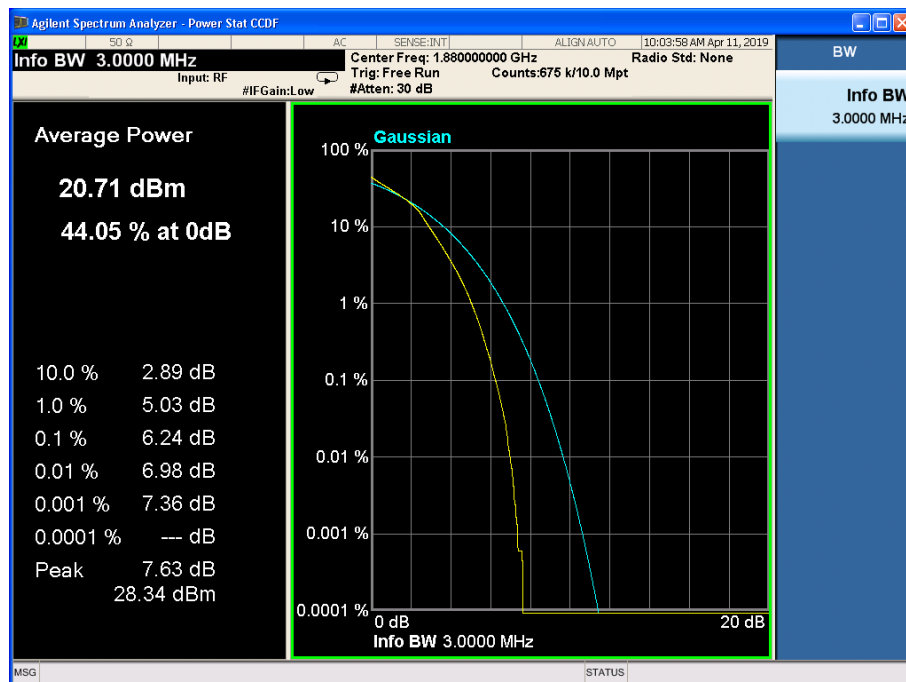
Peak-Average Ratio Plot(1.4MHz BW,64QAM,Band 2-mid Channel)



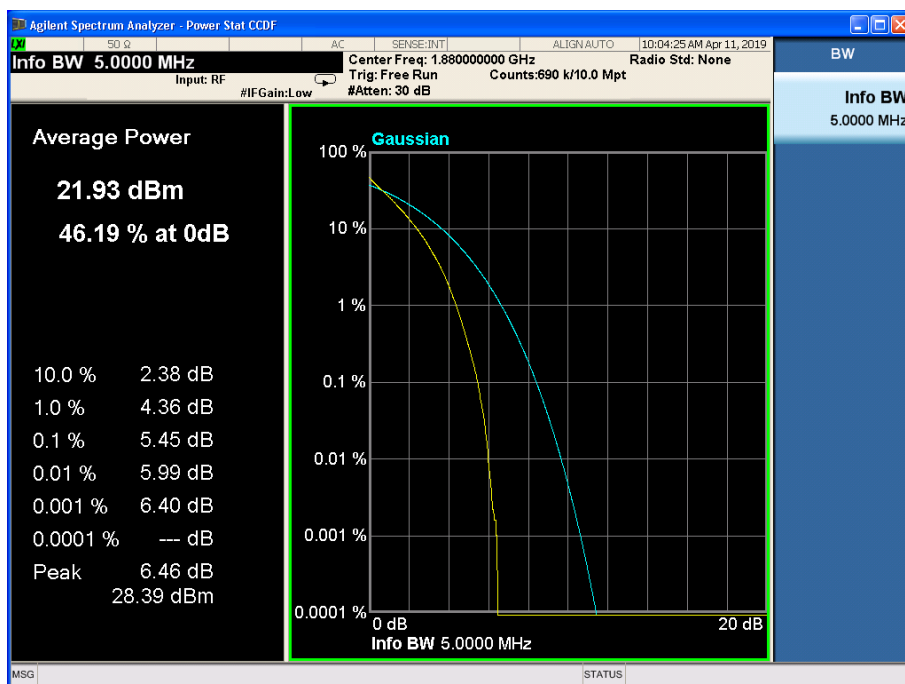
Peak-Average Ratio Plot(3MHz BW,QPSK,Band 2-mid Channel)



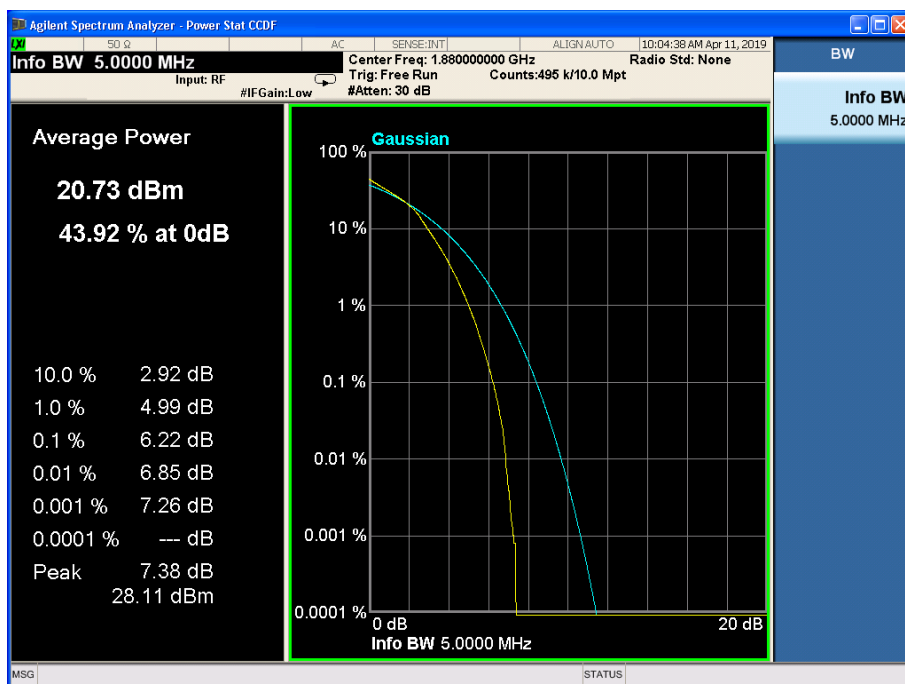
Peak-Average Ratio Plot(3MHz BW,16QAM,Band 2-mid Channel)



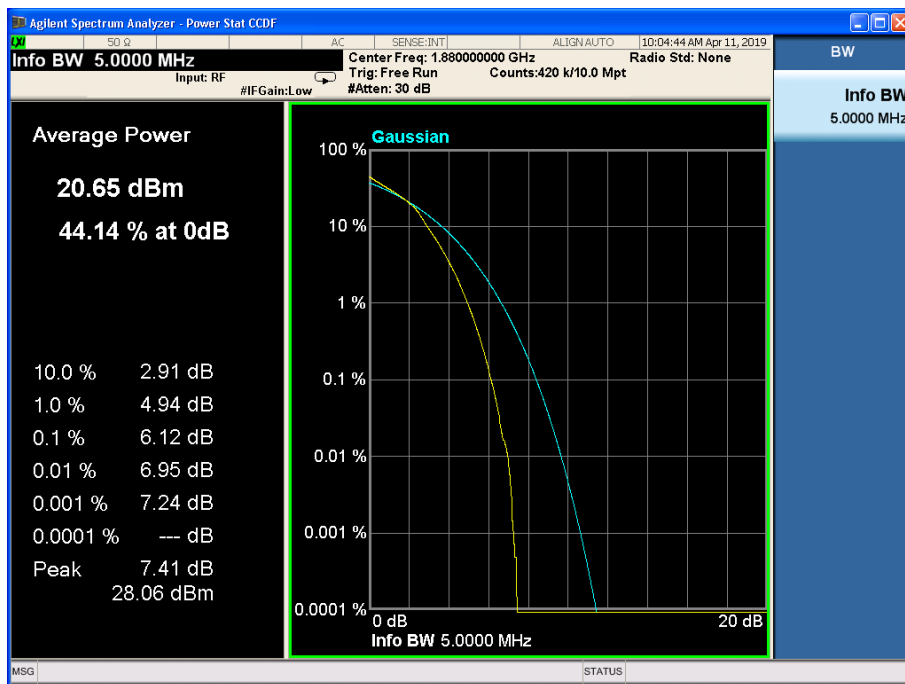
Peak-Average Ratio Plot(3MHz BW,64QAM,Band 2-mid Channel)



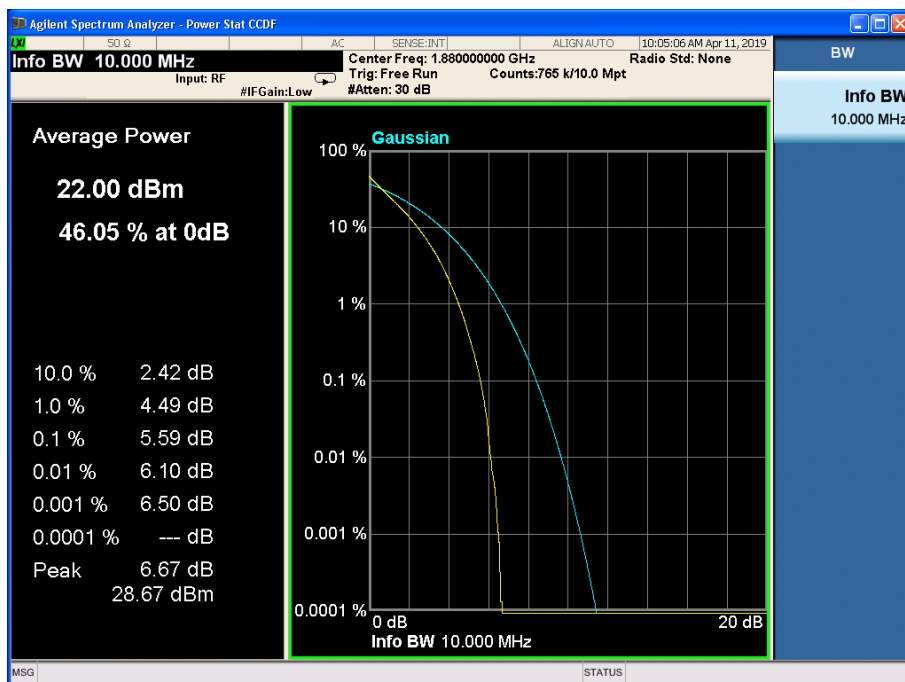
Peak-Average Ratio Plot(5MHz BW,QPSK,Band 2-mid Channel)



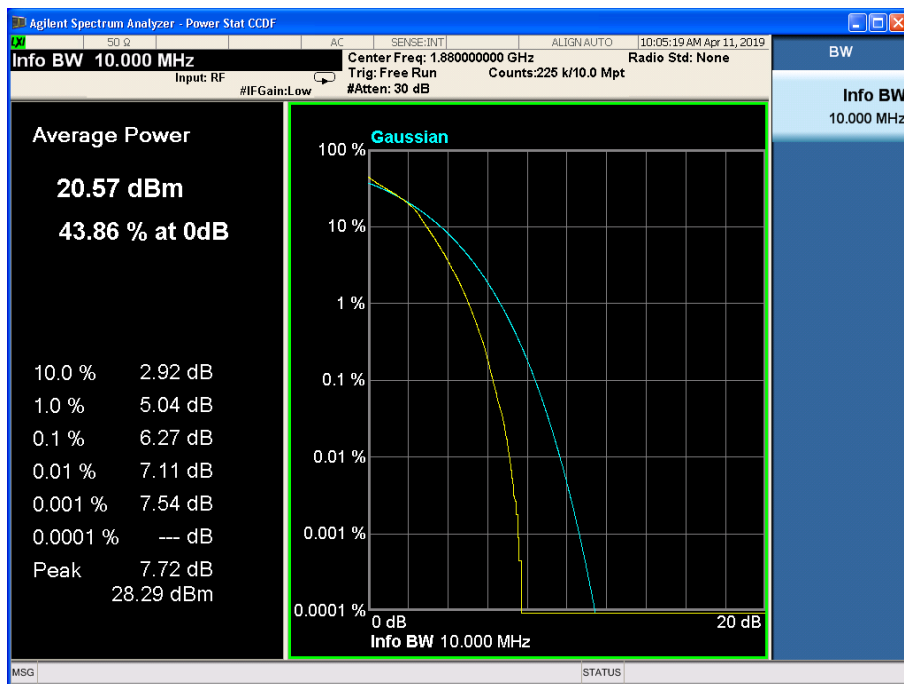
Peak-Average Ratio Plot(5MHz BW,16QAM,Band 2-mid Channel)



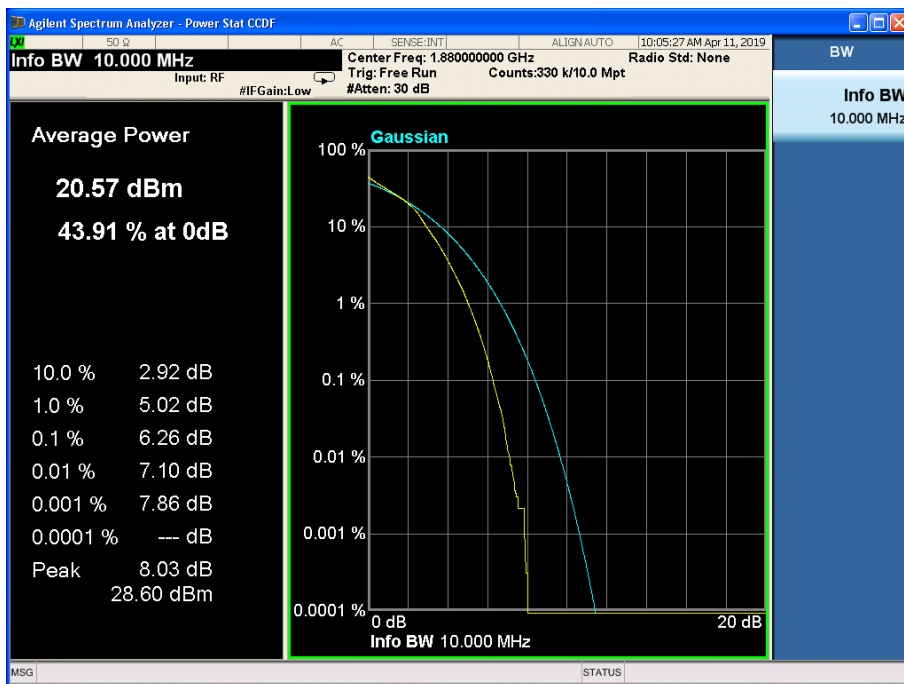
Peak-Average Ratio Plot(5MHz BW,64QAM,Band 2-mid Channel)



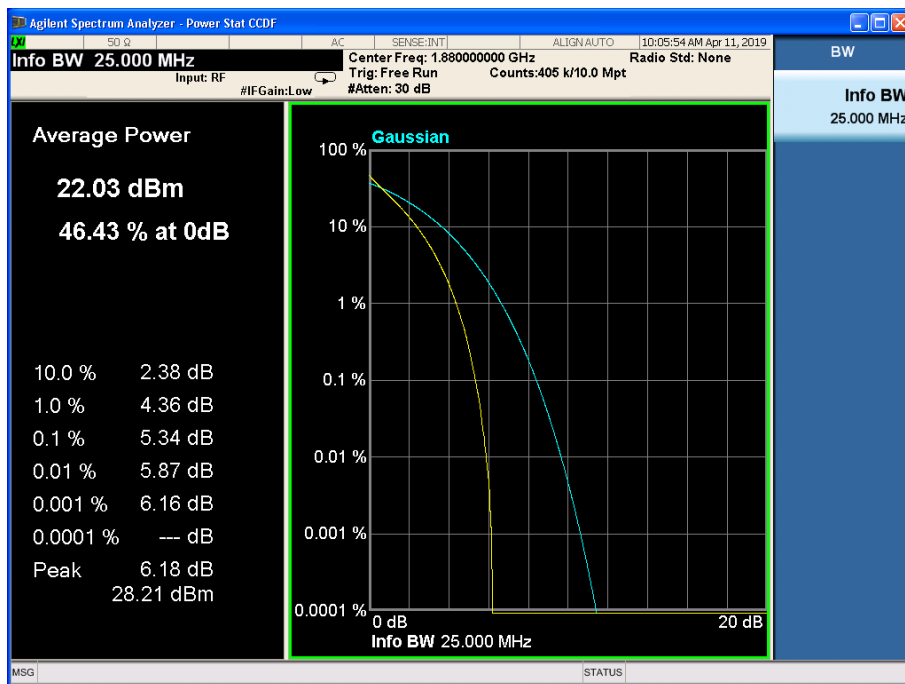
Peak-Average Ratio Plot(10MHz BW,QPSK,Band 2-mid Channel)



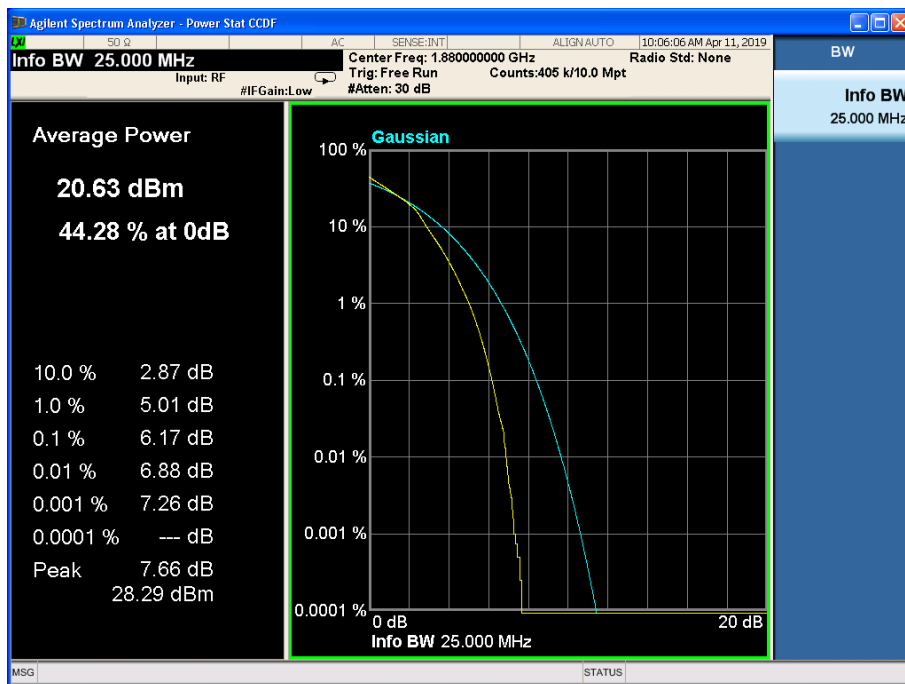
Peak-Average Ratio Plot(10MHz BW,16QAM,Band 2-mid Channel)



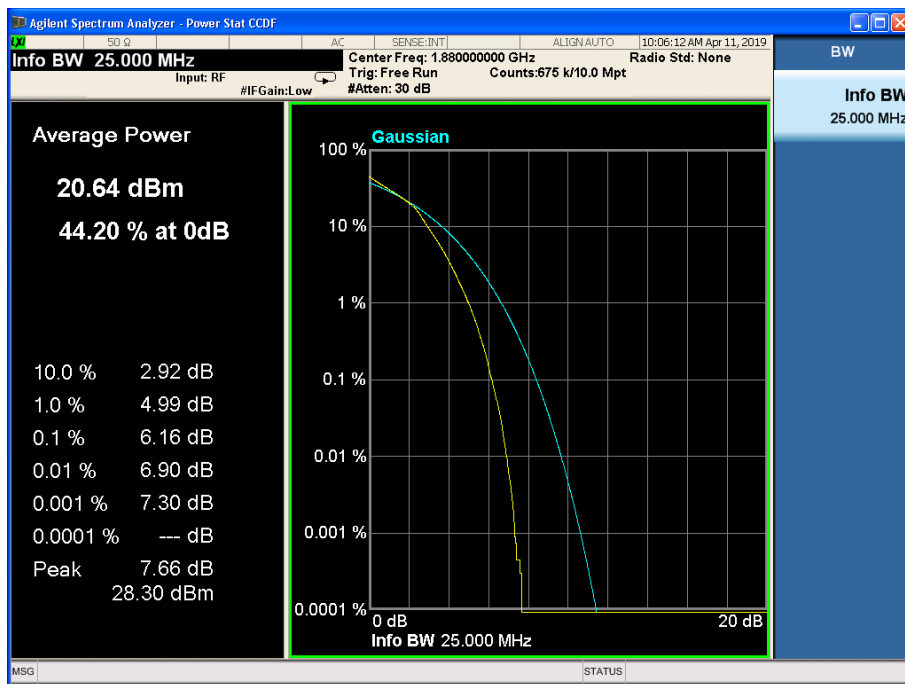
Peak-Average Ratio Plot(10MHz BW,64QAM,Band 2-mid Channel)



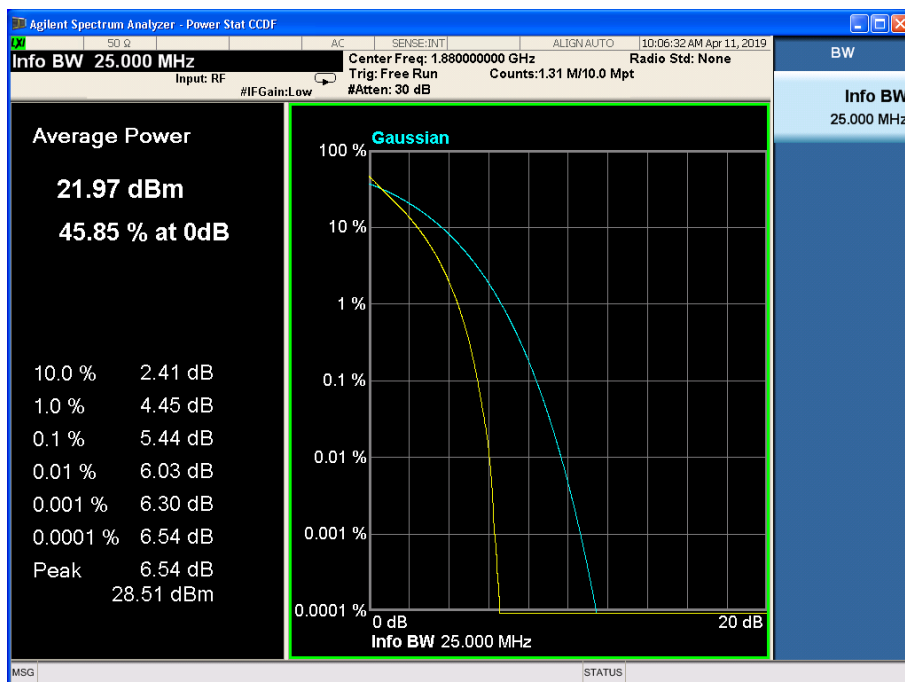
Peak-Average Ratio Plot(15MHz BW,QPSK,Band 2-mid Channel)



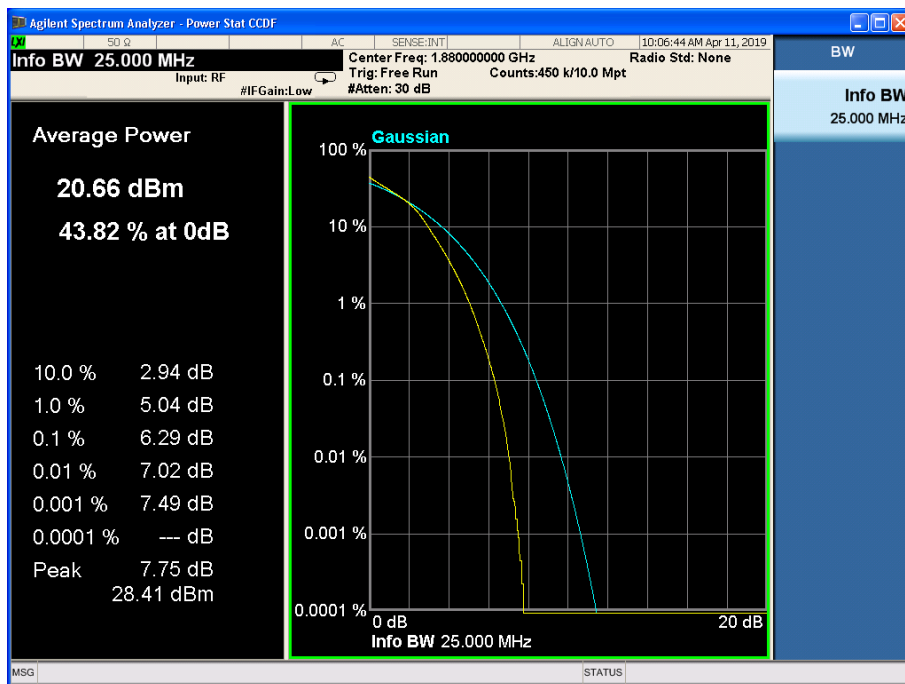
Peak-Average Ratio Plot(15MHz BW,16QAM,Band 2-mid Channel)



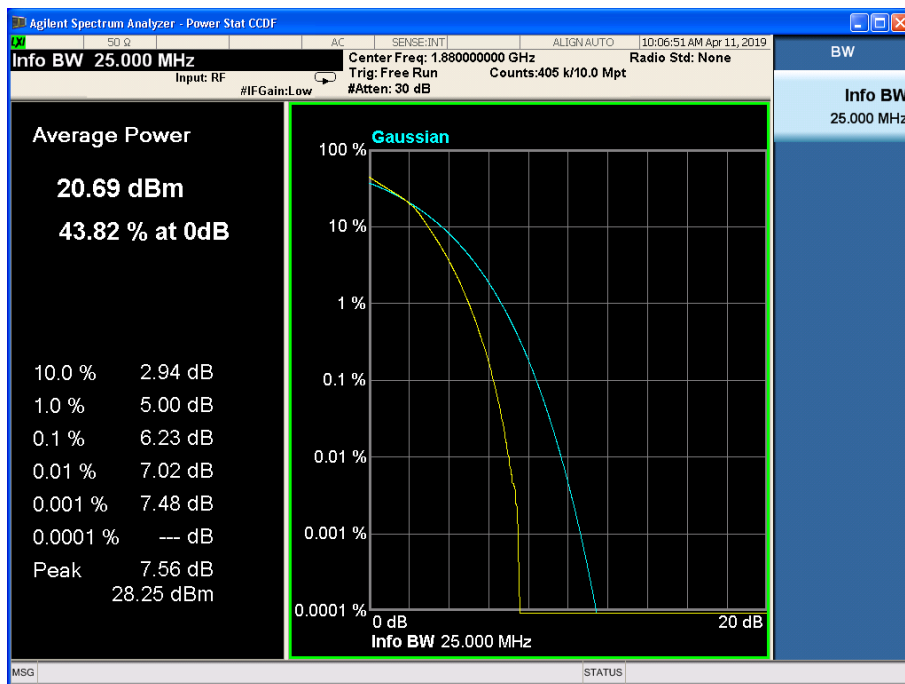
Peak-Average Ratio Plot(15MHz BW,64QAM,Band 2-mid Channel)



Peak-Average Ratio Plot(20MHz BW,QPSK,Band 2-mid Channel)



Peak-Average Ratio Plot(20MHz BW,16QAM,Band 2-mid Channel)



Peak-Average Ratio Plot(20MHz BW,64QAM,Band 2-mid Channel)

4 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
2	1860	18700	20	1	0	Fig.1

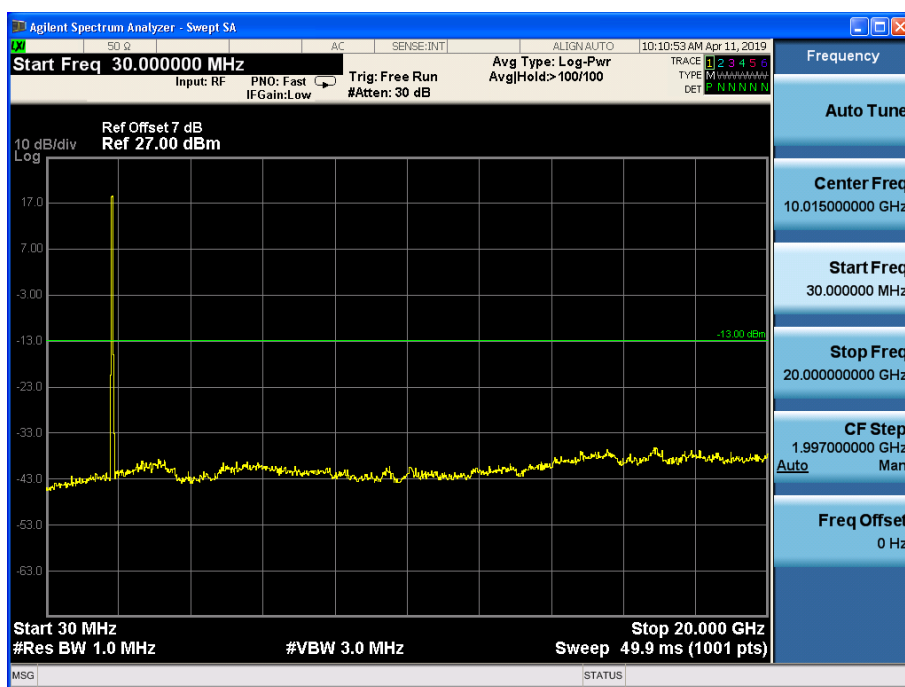


Fig.1

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
2	1880	18900	20	1	0	Fig.1

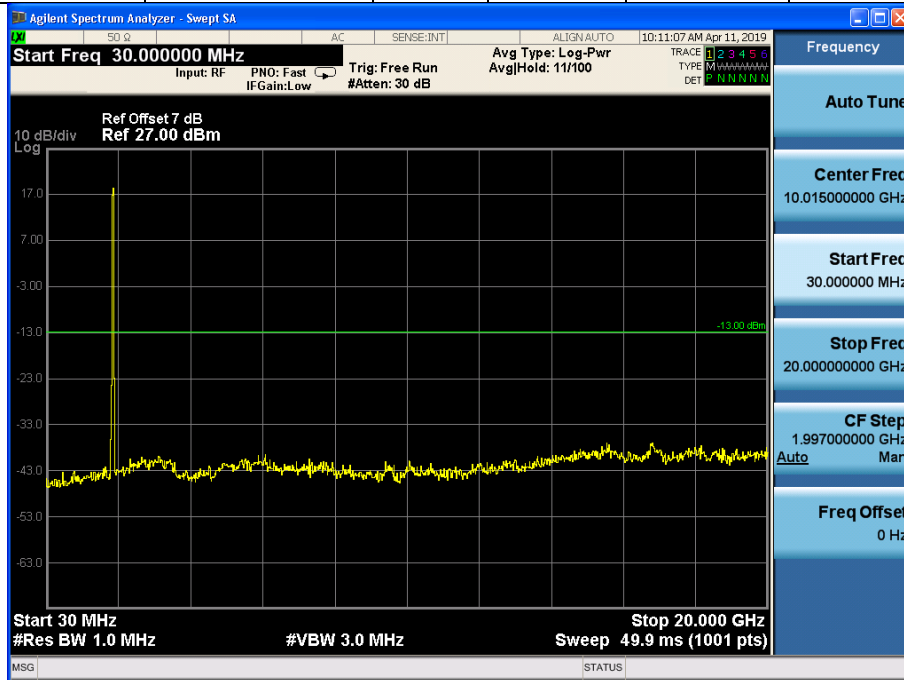


Fig.1

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
2	1900	19100	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 Edges Plot
						QPSK
2	1850.7	18607	1.4	1	0	Fig.1
				6	0	Fig.4

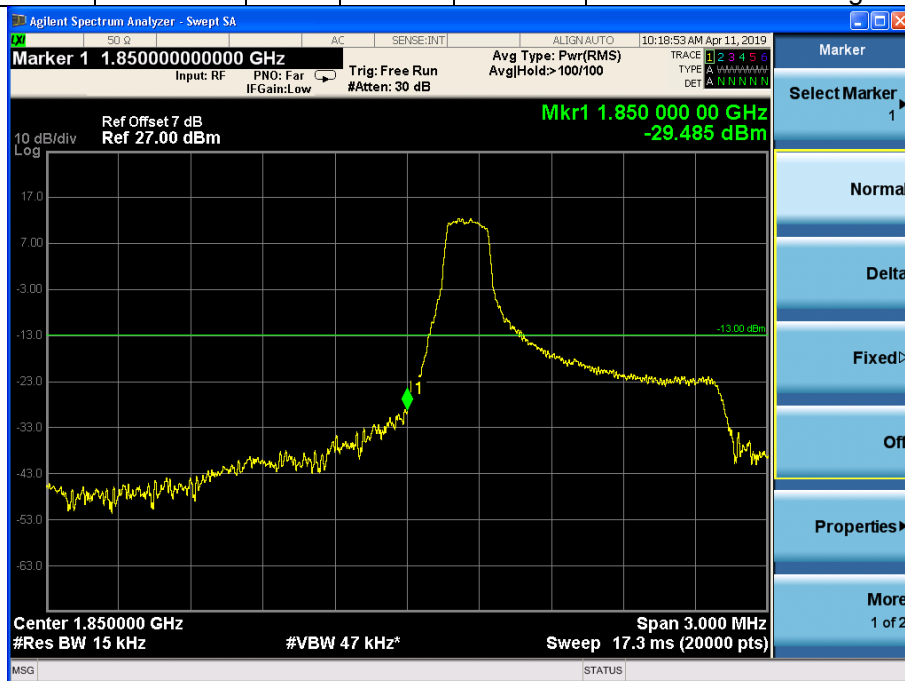


Fig.1

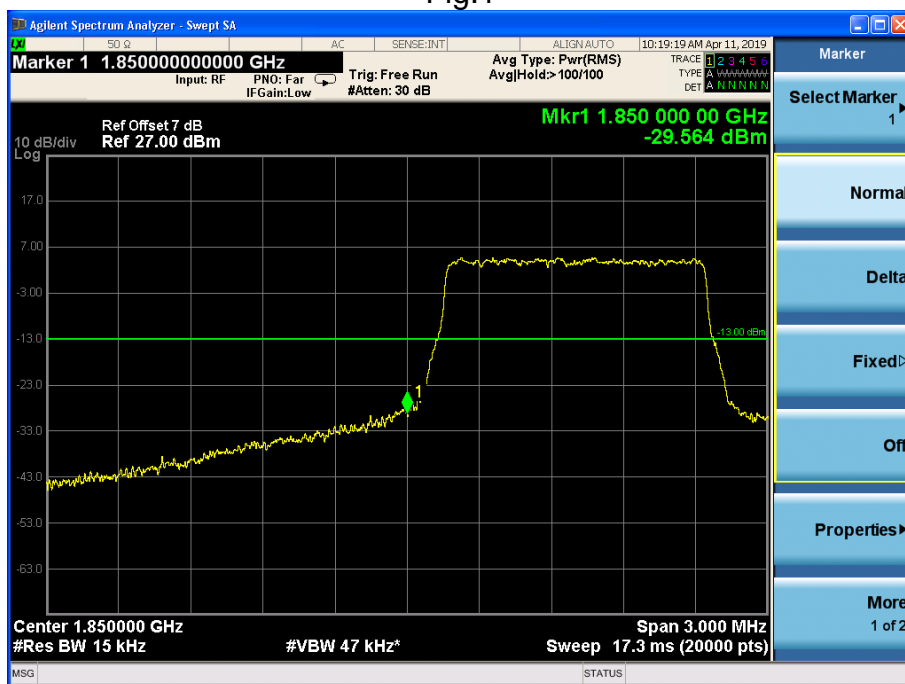


Fig.4

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
2	1909.3	19193	1.4	1	5	Fig.1
				6	0	Fig.4

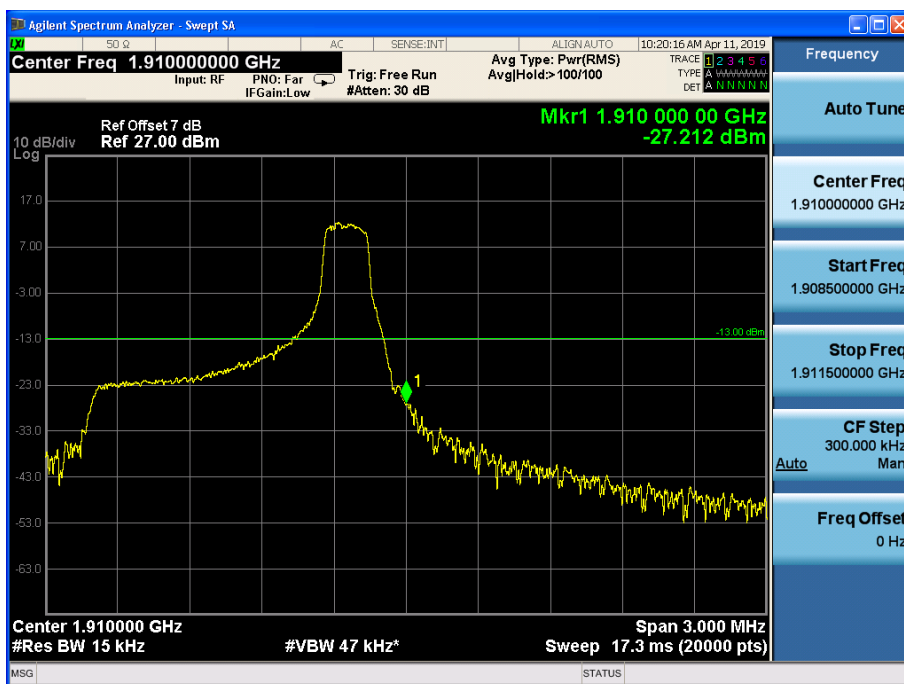


Fig.1

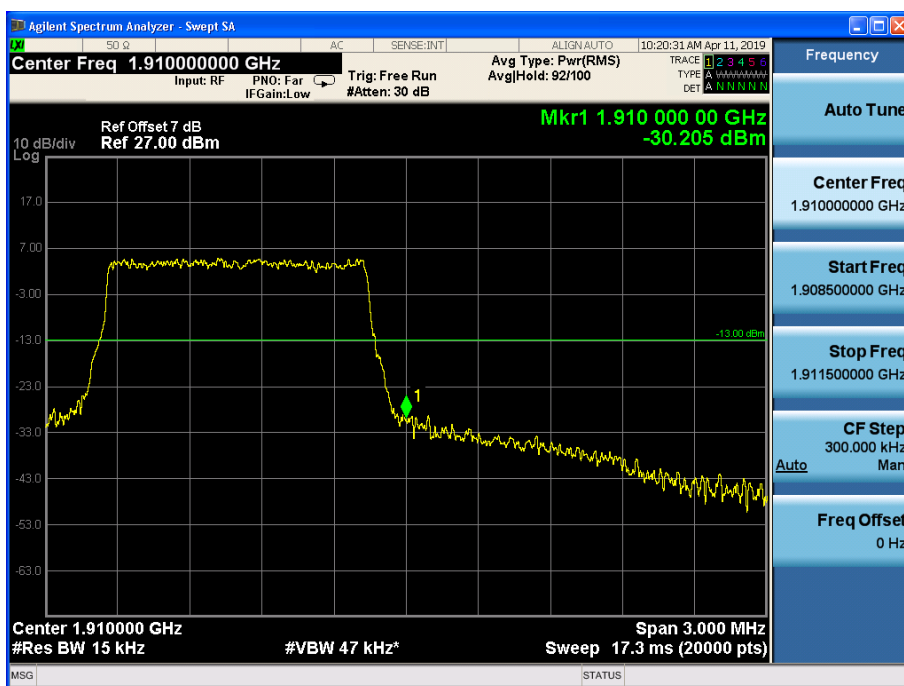


Fig.4

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
2	1851.5	18615	3	1	0	Fig.1
				15	0	Fig.4

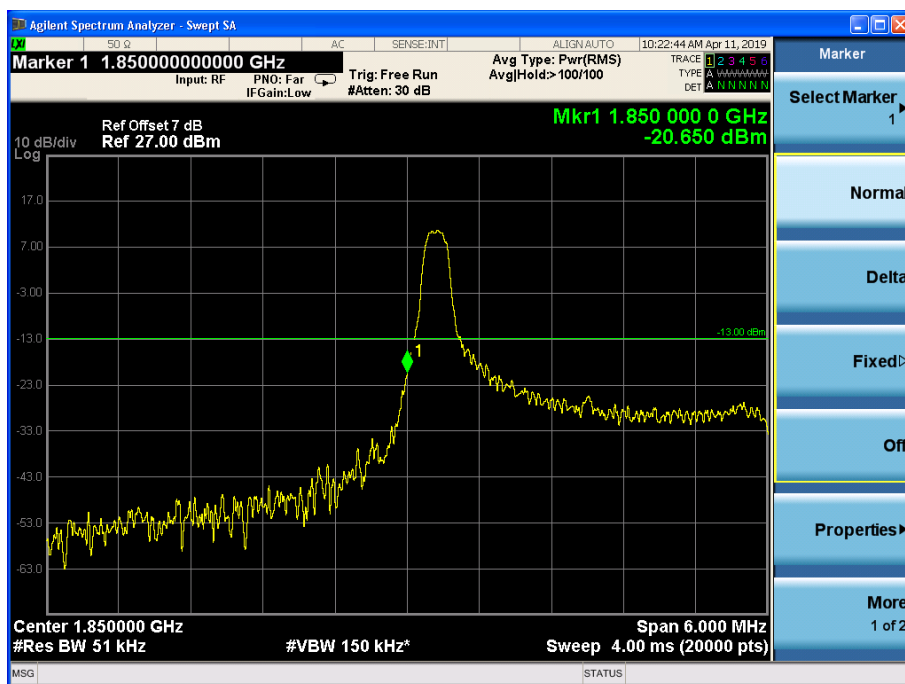


Fig.1

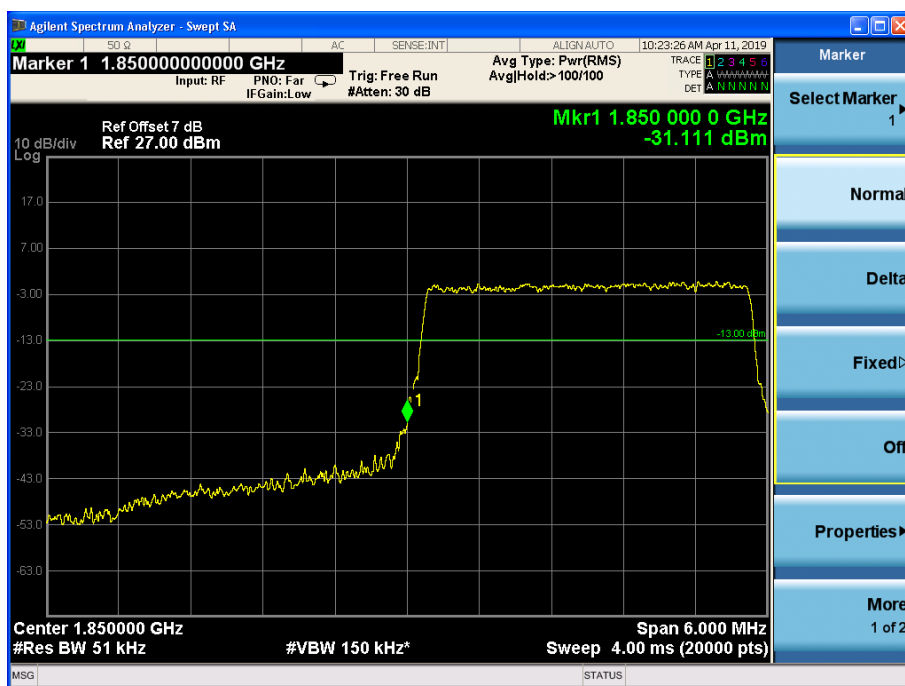


Fig.4

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
2	1908.5	19185	3	1	14	Fig.1
				15	0	Fig.4

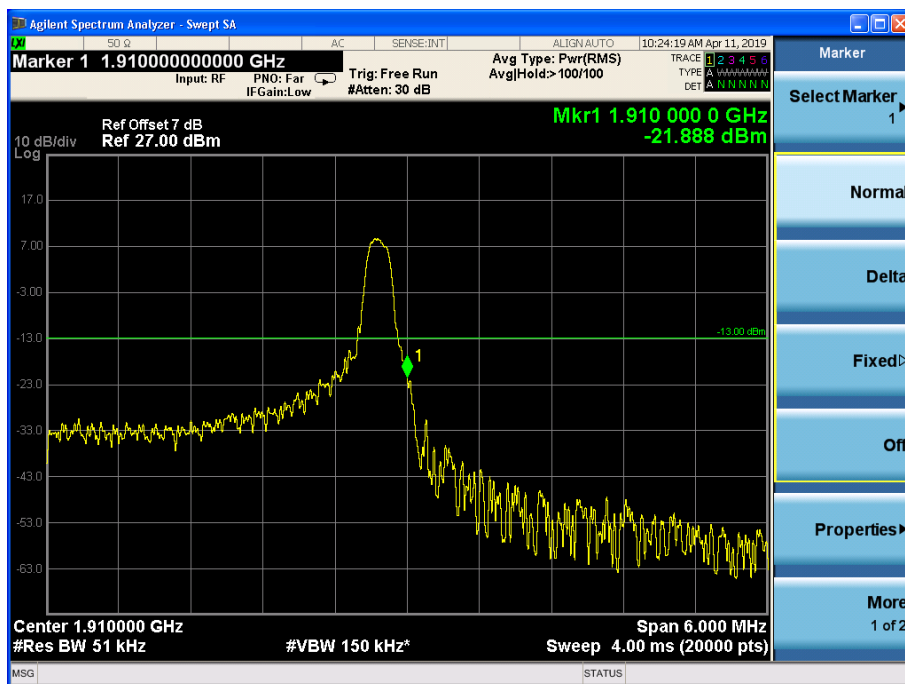


Fig.1



Fig.4

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
2	1852.5	18625	5	1	0	Fig.1
				25	0	Fig.4

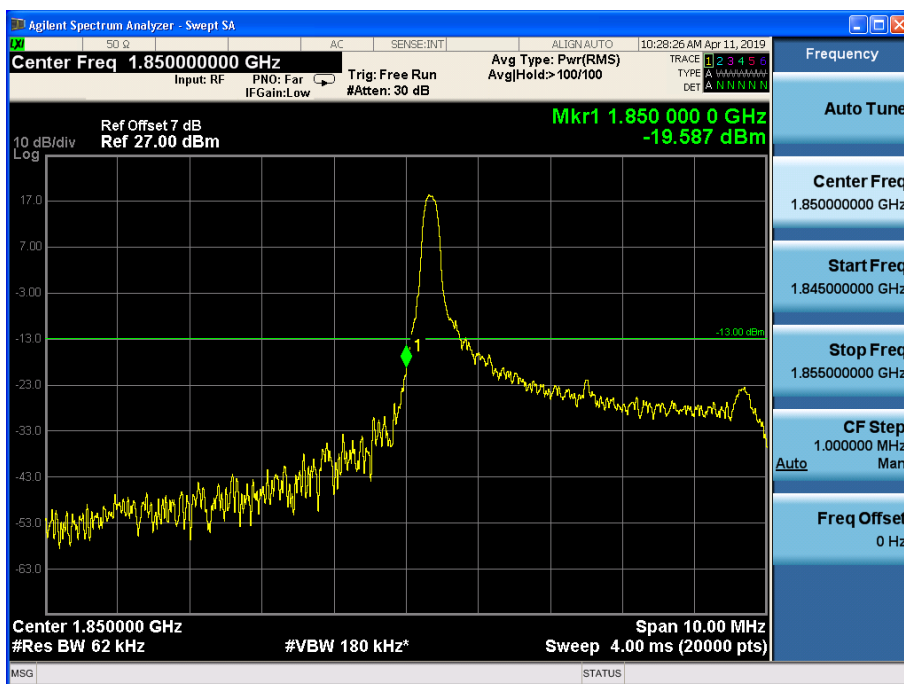


Fig.1

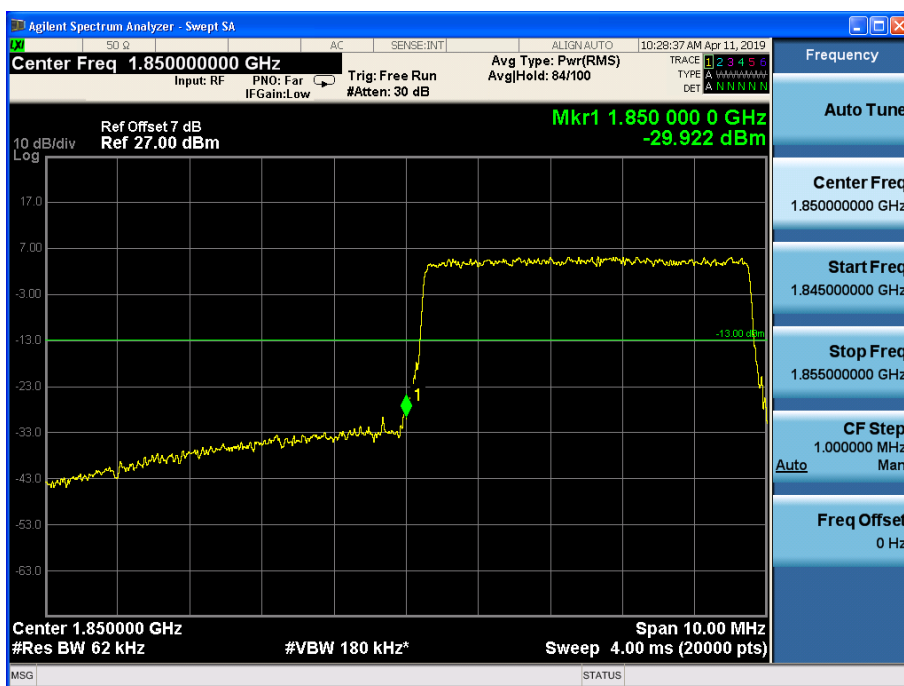


Fig.4

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
2	1907.5	19175	5	1	24	Fig.1
				25	0	Fig.4

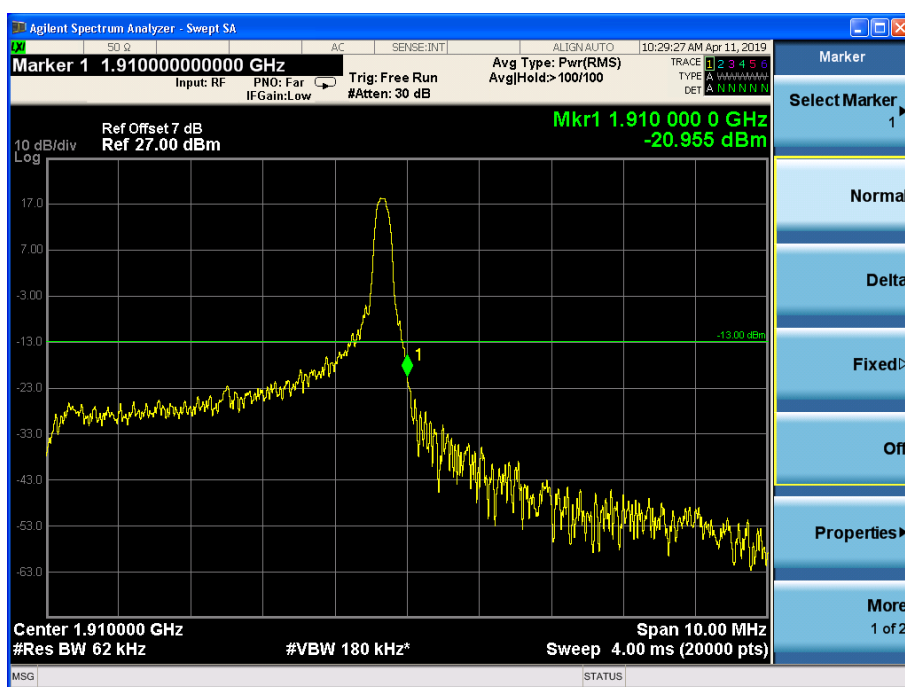


Fig.1

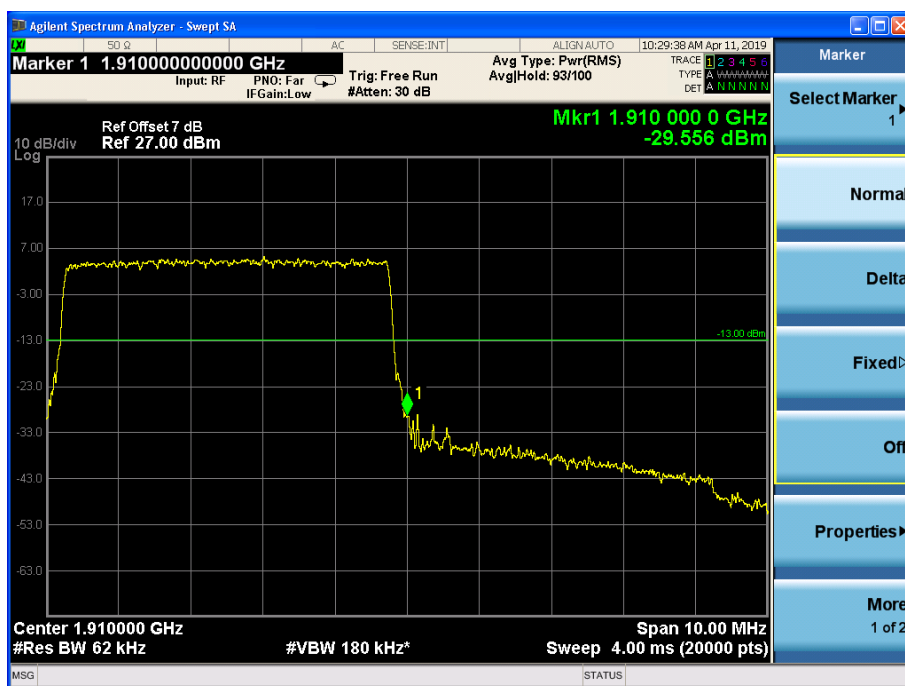


Fig.4

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
2	1855	18650	10	1	0	Fig.1
				50	0	Fig.4

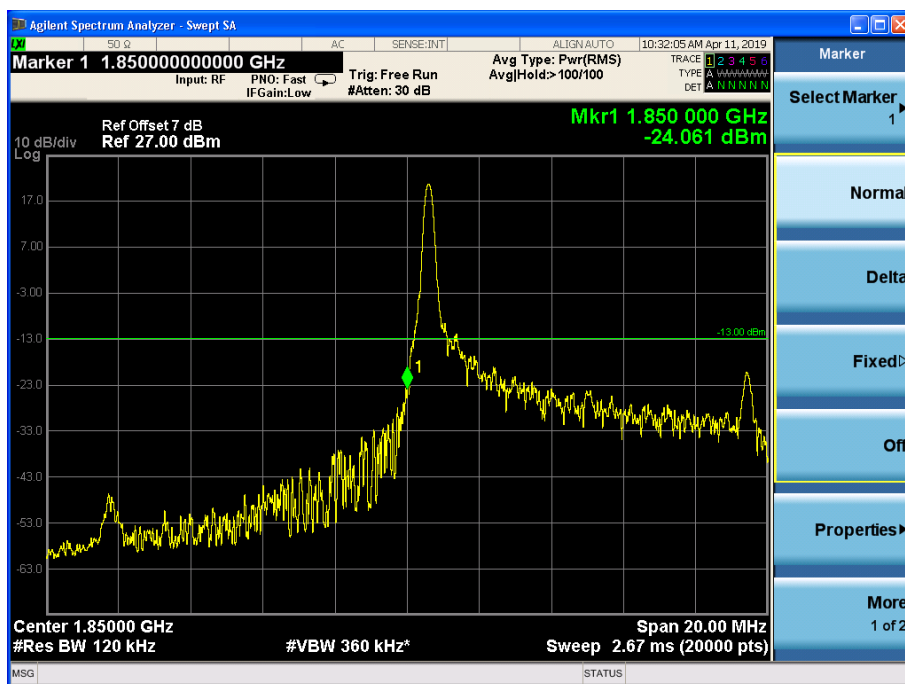


Fig.1

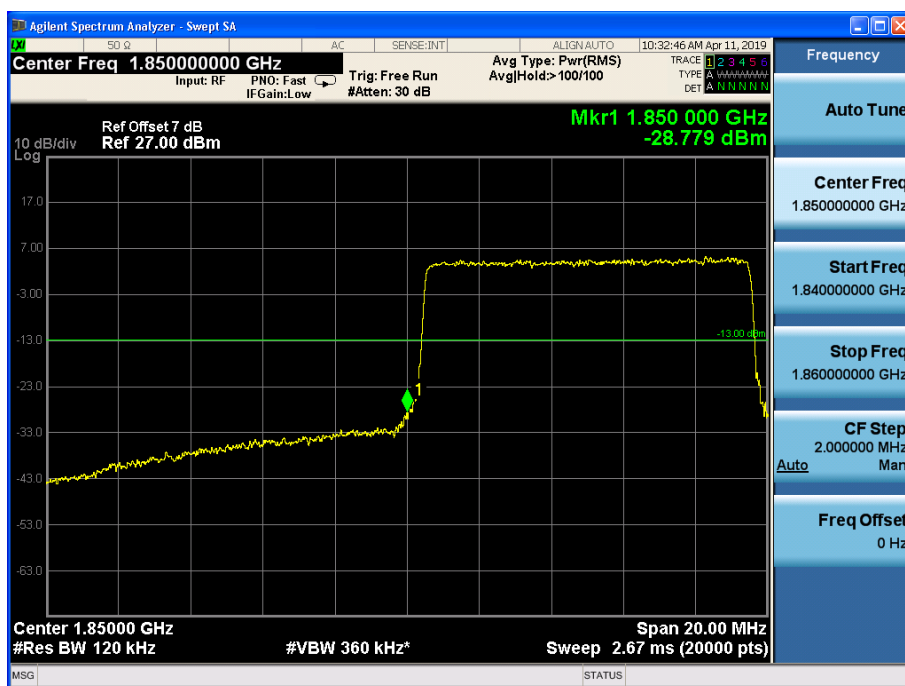


Fig.4

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
2	1905	19150	10	1	49	Fig.1
				50	0	Fig.4

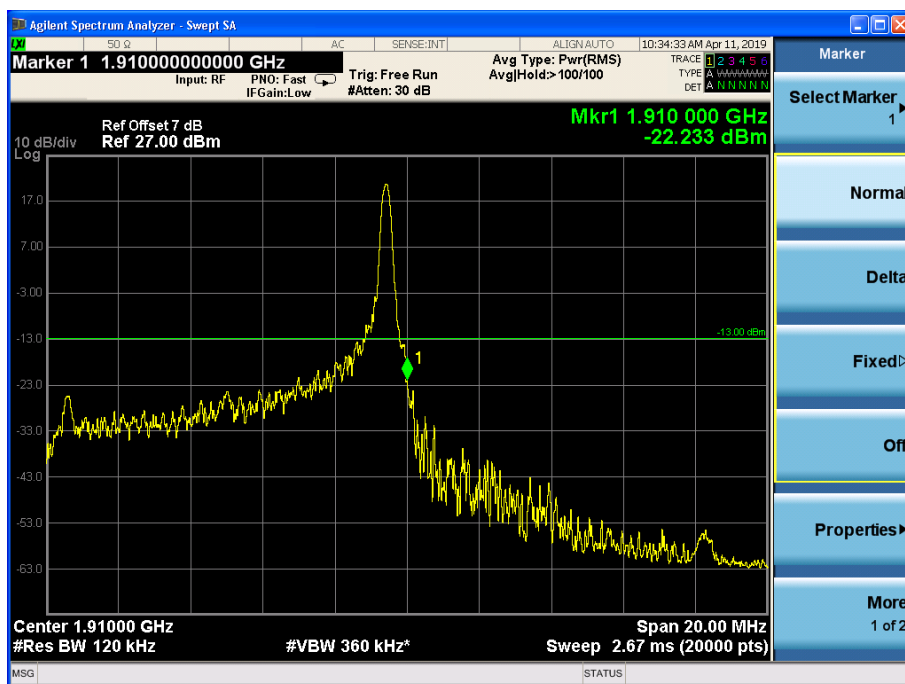


Fig.1

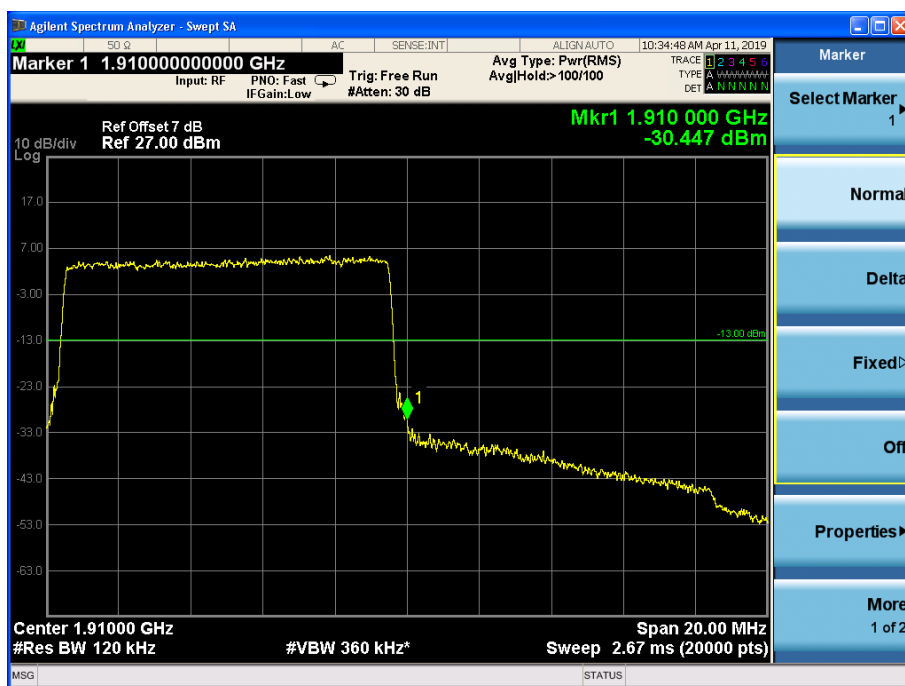


Fig.4

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
2	1857.5	18675	15	1	0	Fig.1
				75	0	Fig.4

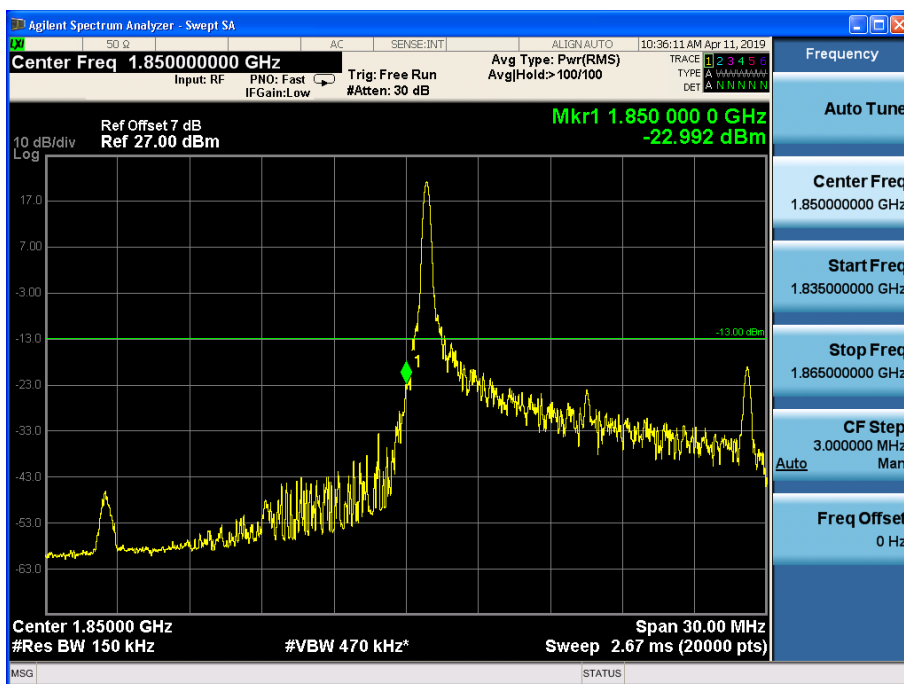


Fig.1

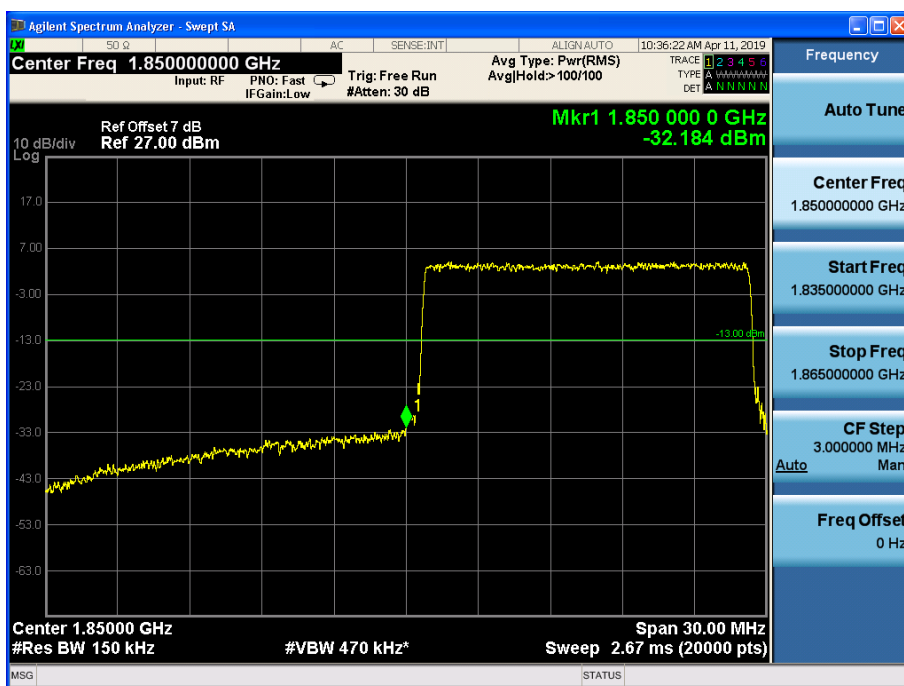


Fig.4

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
2	1902.5	19125	15	1	74	Fig.1
				75	0	Fig.4

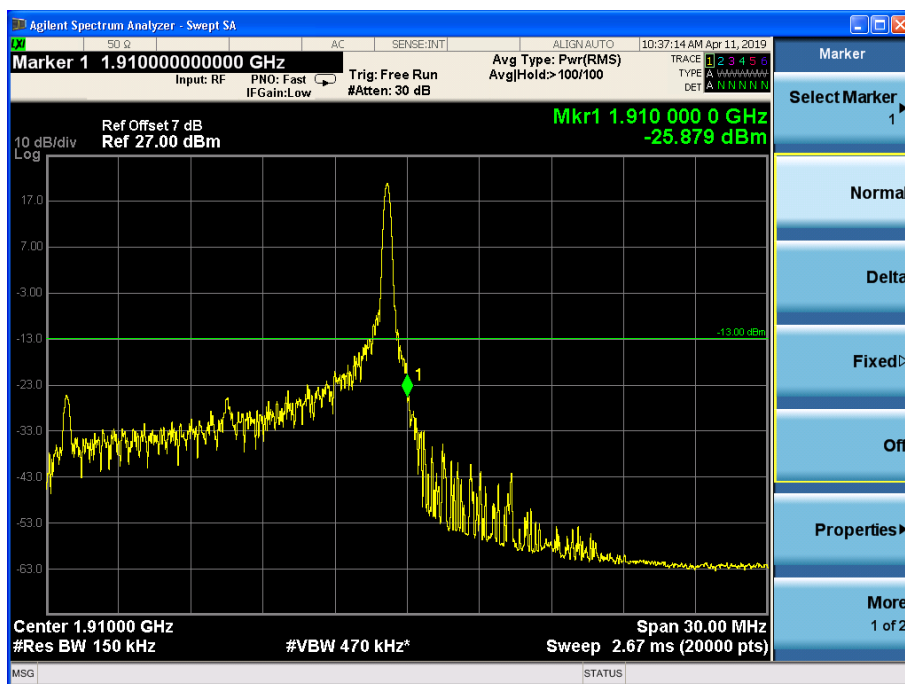


Fig.1

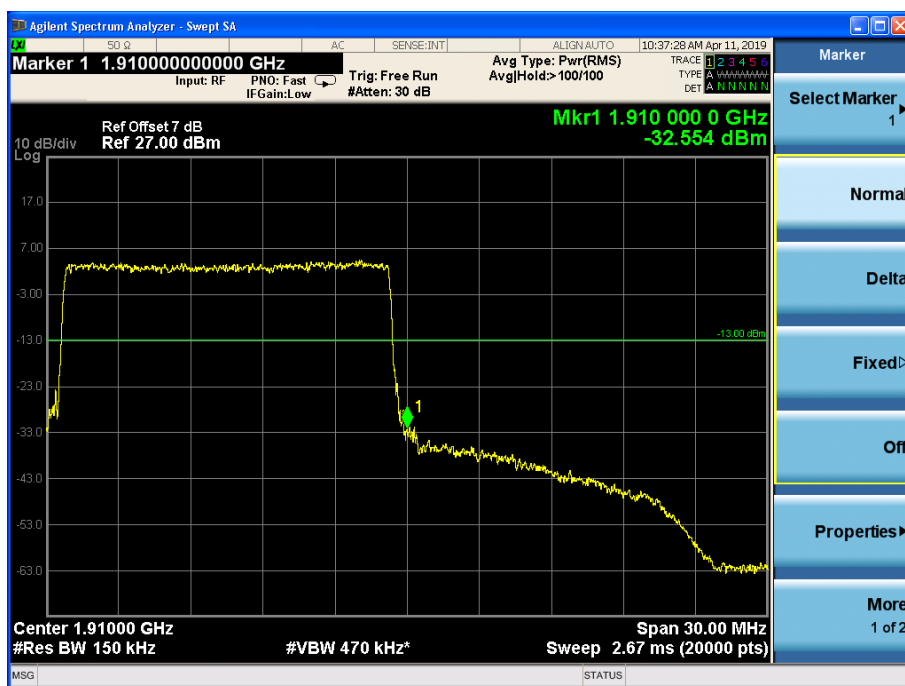


Fig.4

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
2	1860	18700	20	1	0	Fig.1
				100	0	Fig.4

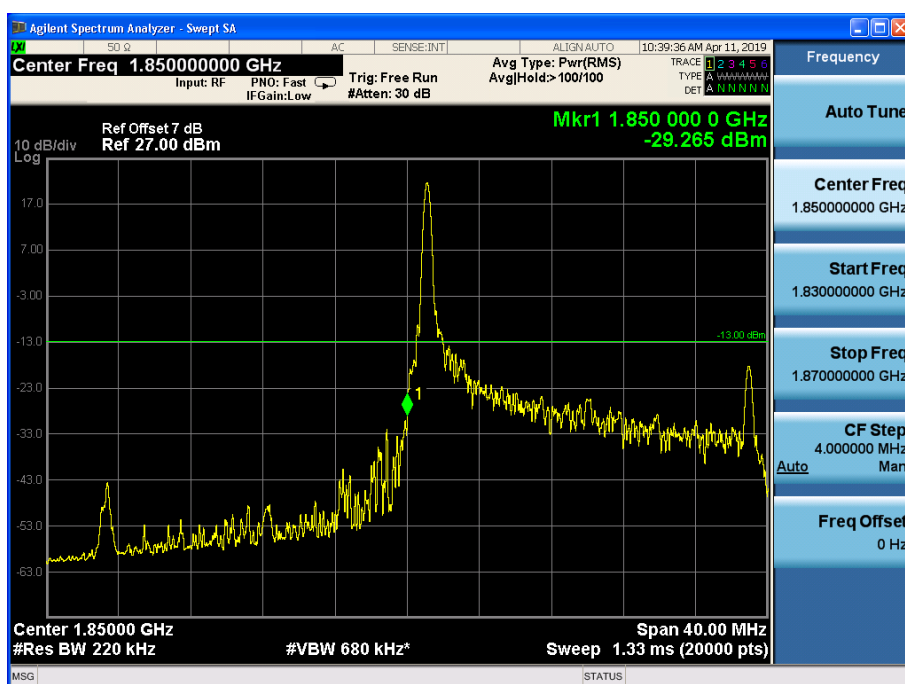


Fig.1

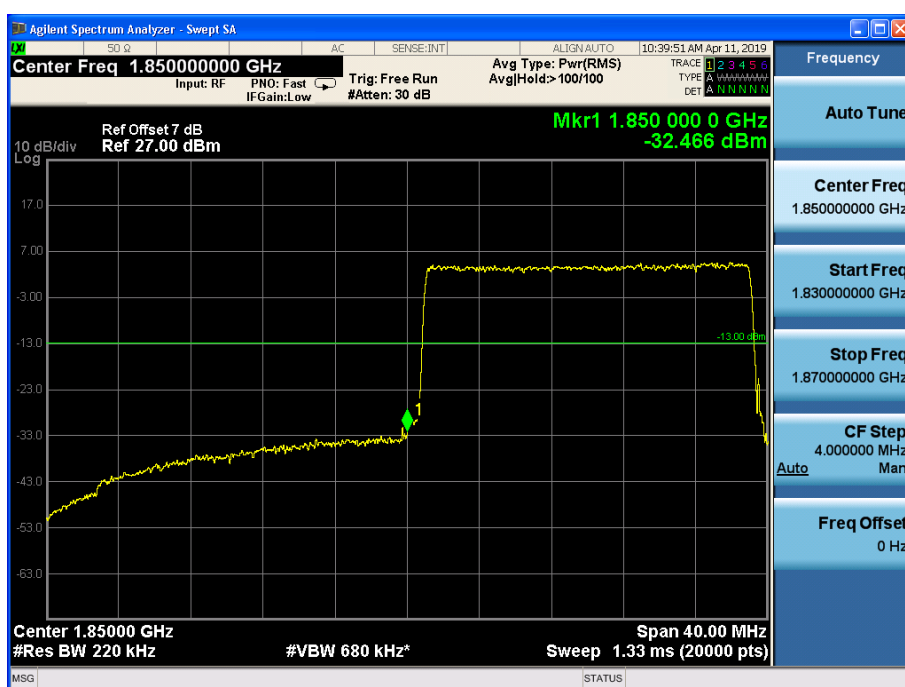


Fig.4

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
2	1900	19100	20	1	99	Fig.1
				100	0	Fig.4

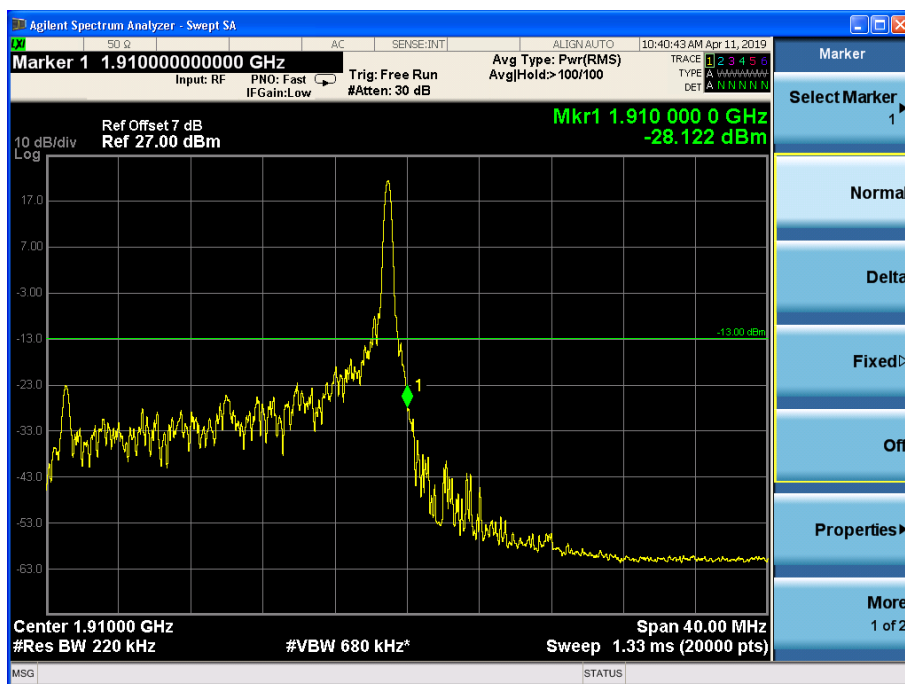


Fig.1

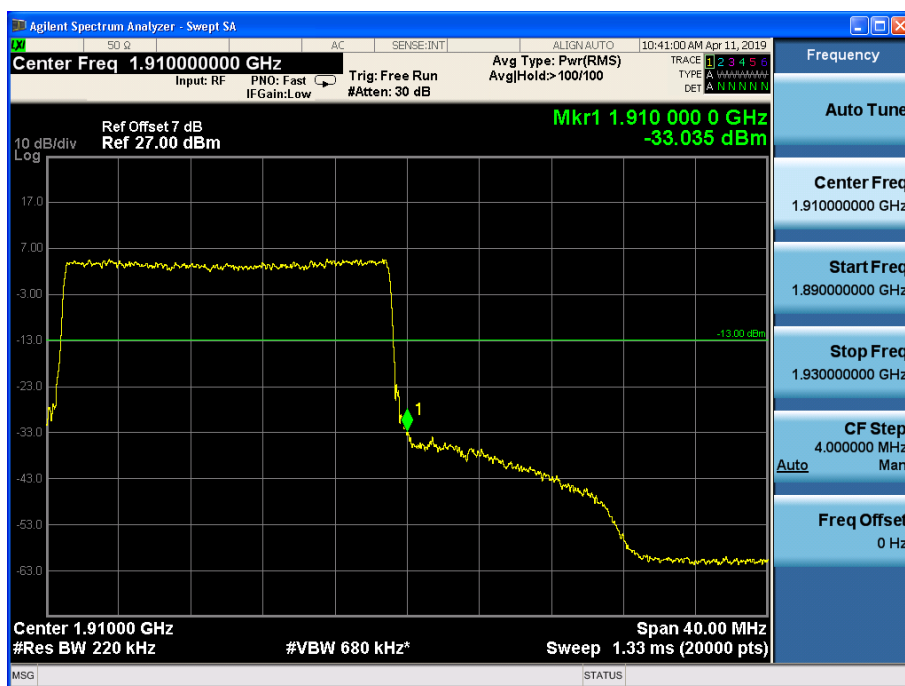


Fig.4

6 Frequency Stability

Test result:

Temperature(°C)	Voltage	Test Result (ppm) Band2 Low Channel					
		1.4M	3M	5M	10M	15M	20M
0	NV	0.020	-0.021	0.013	0.002	0.013	-0.001
+10	NV	-0.023	0.011	0.001	-0.012	-0.005	-0.014
+20	NV	0.024	0.002	0.007	0.014	-0.011	-0.002
+30	NV	0.013	0.010	0.004	0.005	-0.008	-0.004
+40	NV	0.018	0.003	0.003	-0.005	0.011	-0.012
+50	NV	0.014	0.004	0.006	0.014	0.003	-0.002
+55	NV	-0.004	-0.014	0.009	0.000	0.014	0.008
+20	LV	-0.020	-0.015	0.007	-0.015	-0.011	0.005
+20	HV	-0.024	0.000	0.006	0.002	-0.014	-0.009

Temperature(°C)	Voltage	Test Result (ppm) Band2 High Channel					
		1.4M	3M	5M	10M	15M	20M
0	NV	-0.008	0.011	0.017	0.011	-0.015	0.022
+10	NV	-0.008	-0.022	0.011	0.013	0.004	-0.005
+20	NV	0.011	0.001	-0.004	-0.005	-0.002	0.004
+30	NV	-0.006	-0.013	0.006	0.014	-0.004	-0.010
+40	NV	0.016	0.010	0.004	-0.009	0.002	0.006
+50	NV	0.021	-0.013	-0.005	-0.006	-0.010	0.003
+55	NV	0.003	0.003	-0.008	0.009	0.001	-0.009
+20	LV	-0.020	0.005	-0.012	-0.014	-0.015	-0.002
+20	HV	-0.020	-0.003	-0.014	0.010	0.012	0.014