

Fig.7

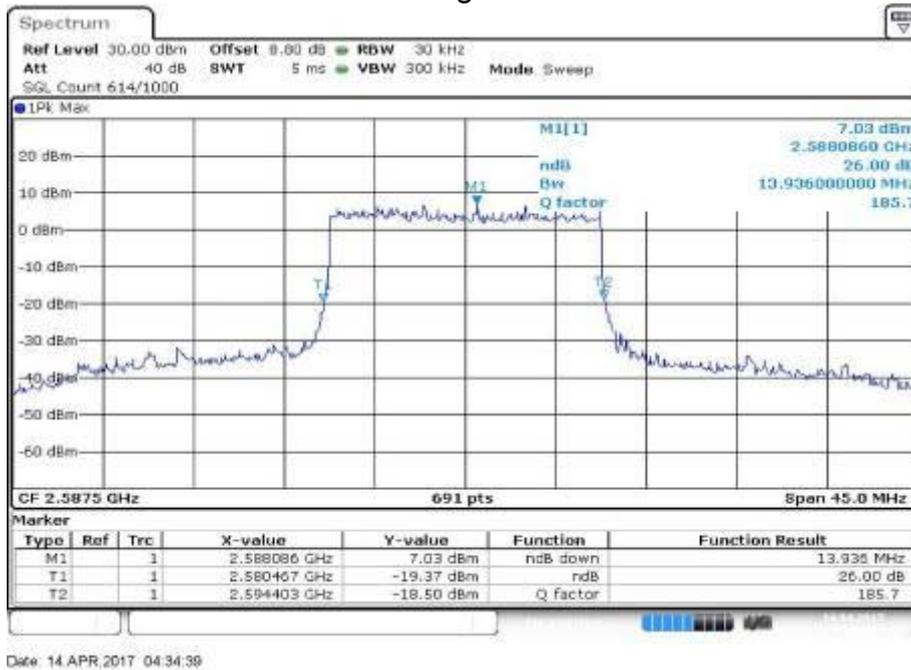


Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)			
						QPSK		16-QAM	
41	2555	40240	20	1	0	0.781	Fig.1	0.781	Fig.5
				1	99	0.781	Fig.2	0.781	Fig.6
				50	25	9.551	Fig.3	9.551	Fig.7
				100	0	18.495	Fig.4	18.495	Fig.8

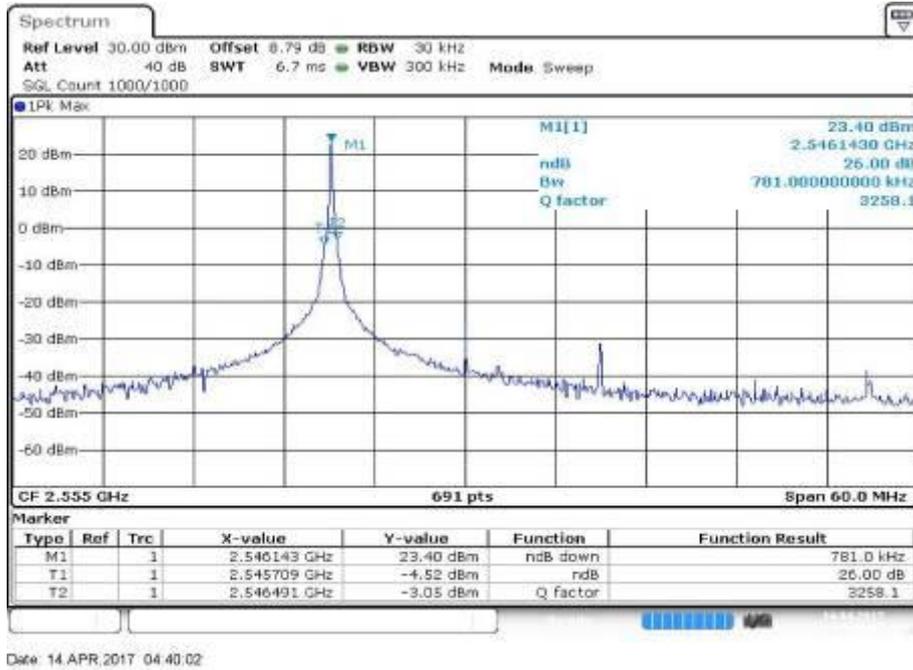


Fig.1

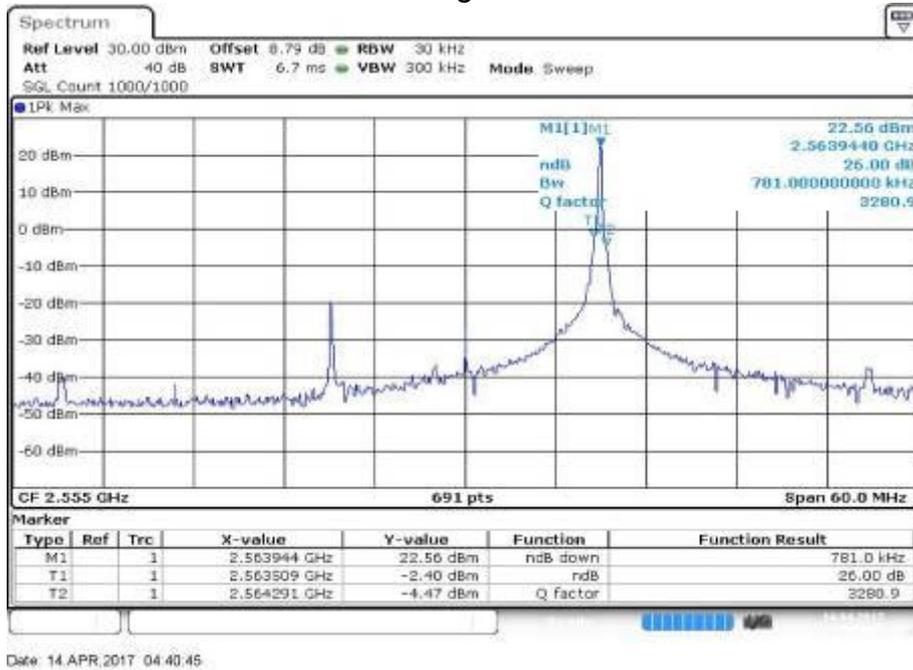


Fig.2



Fig.3

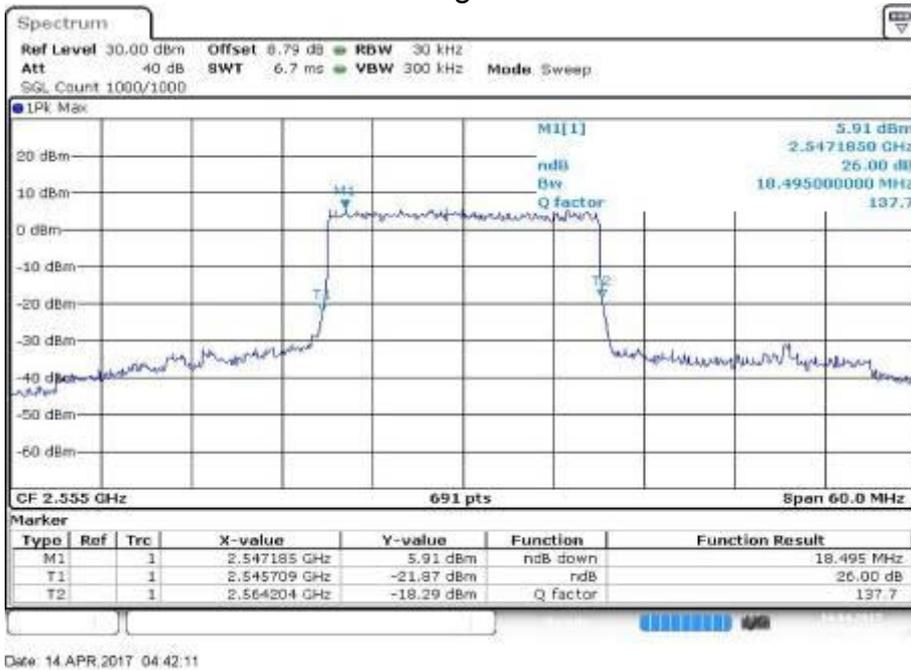


Fig.4

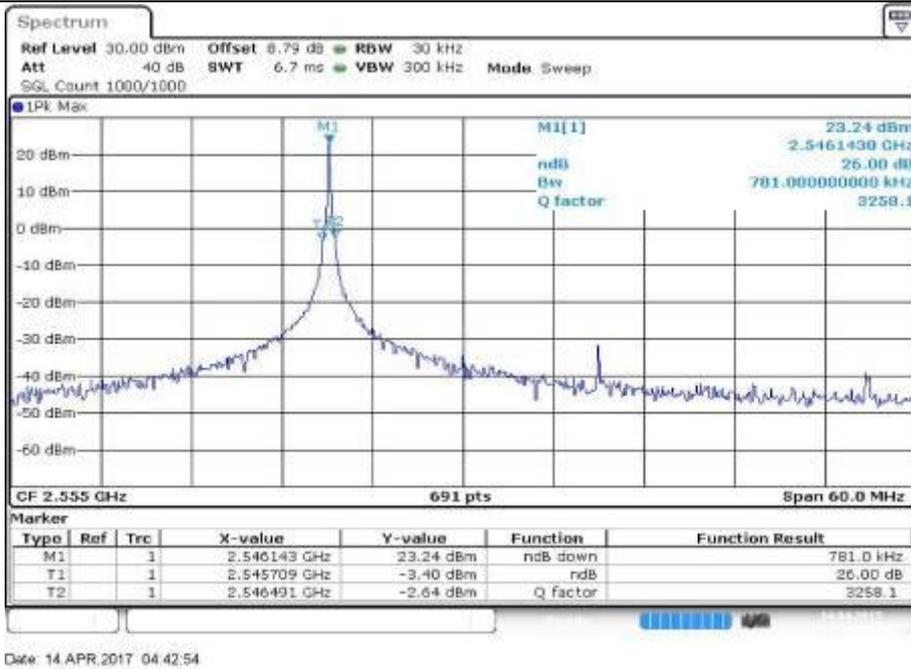


Fig.5

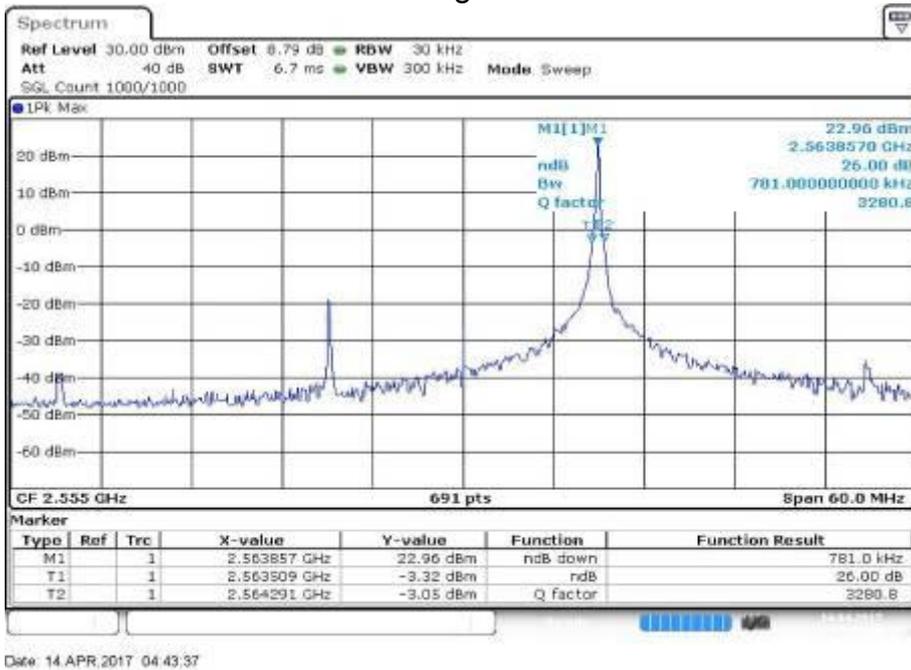


Fig.6

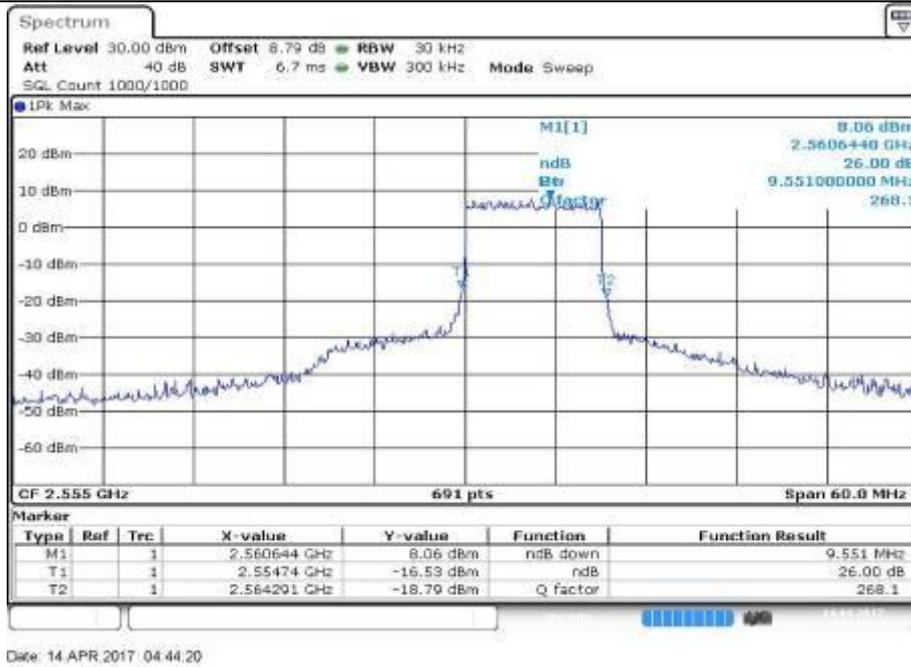


Fig.7

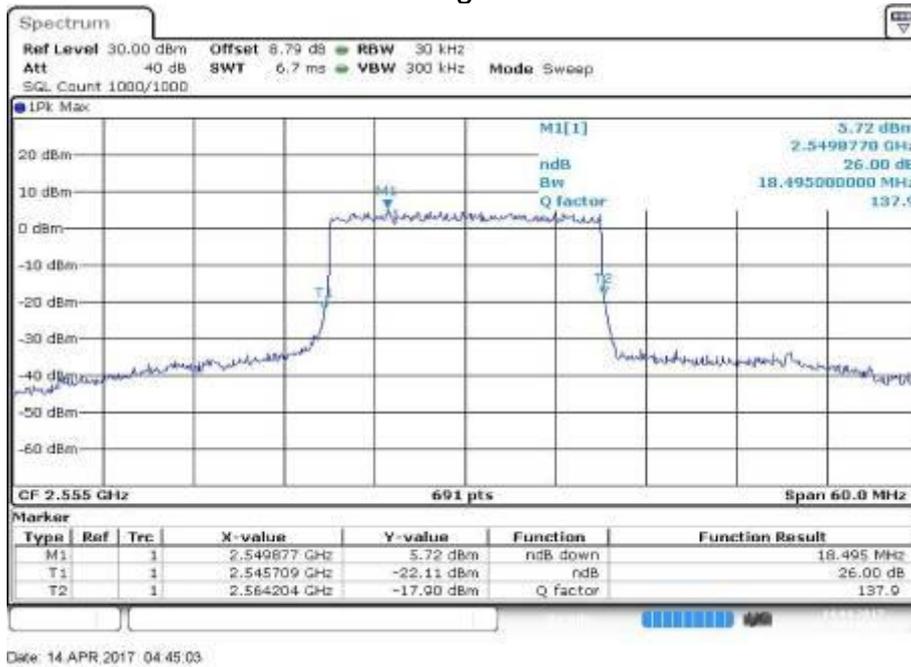


Fig.8

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)			
						QPSK		16-QAM	
41	2570	40390	20	1	0	0.781	Fig.1	0.781	Fig.5
				1	99	0.781	Fig.2	0.781	Fig.6
				50	25	9.465	Fig.3	9.551	Fig.7
				100	0	18.582	Fig.4	18.495	Fig.8

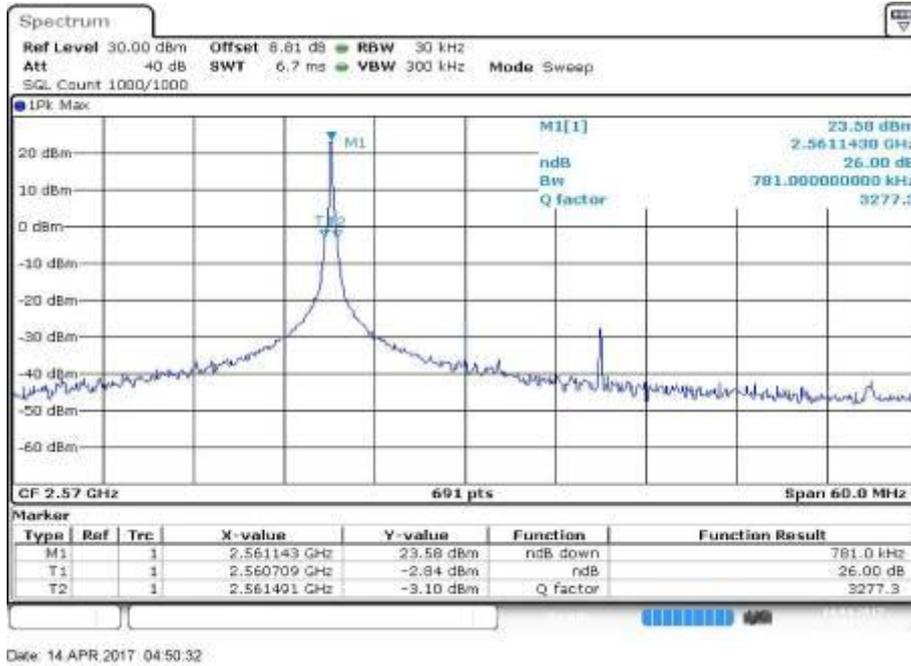


Fig.1

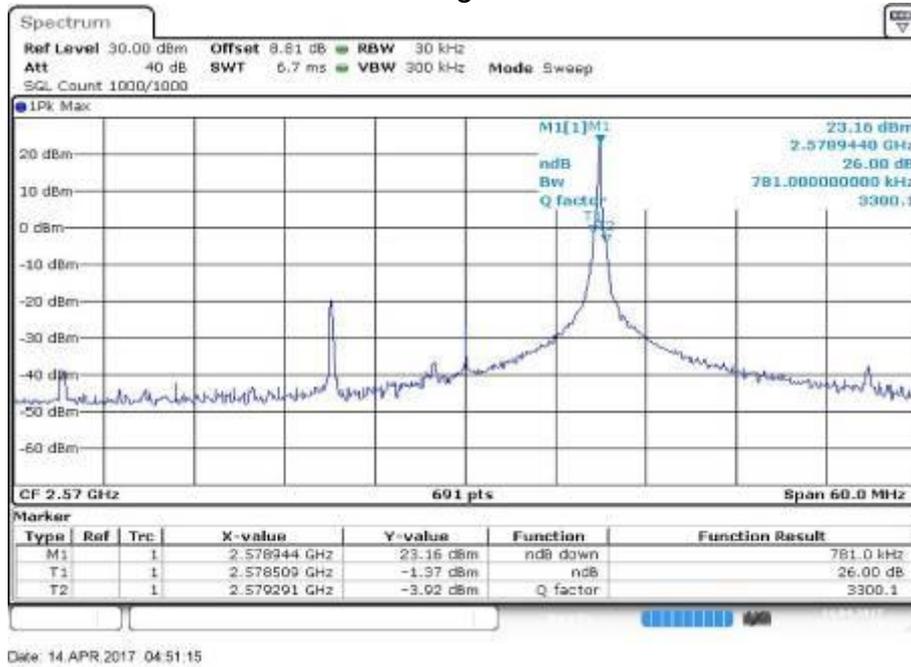


Fig.2

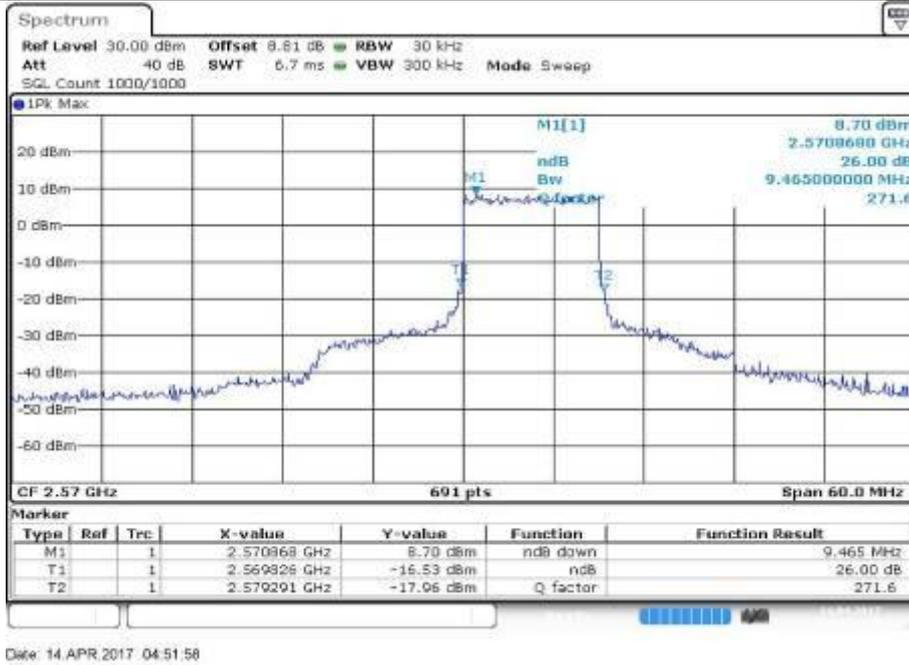


Fig.3

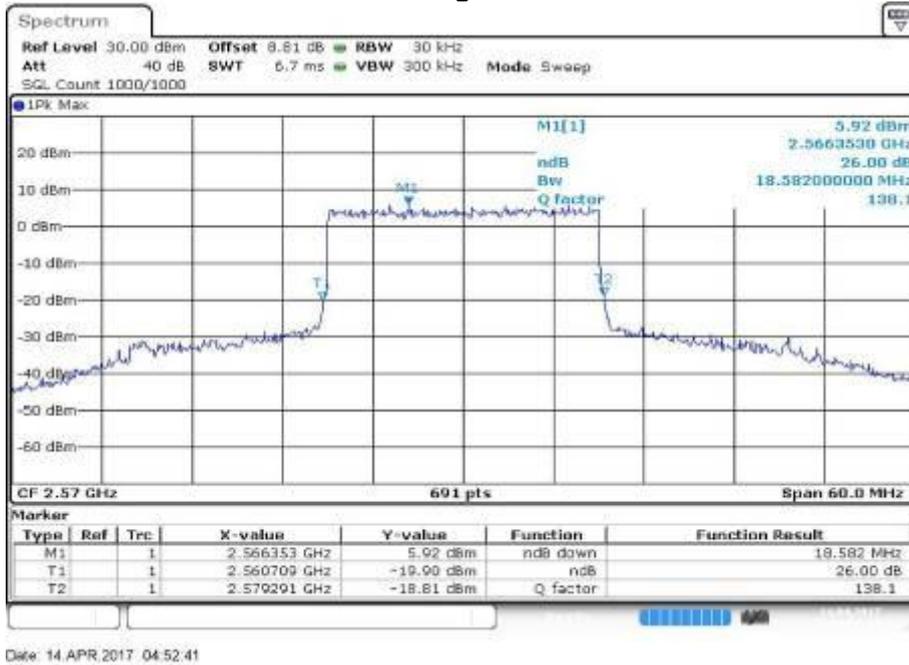


Fig.4

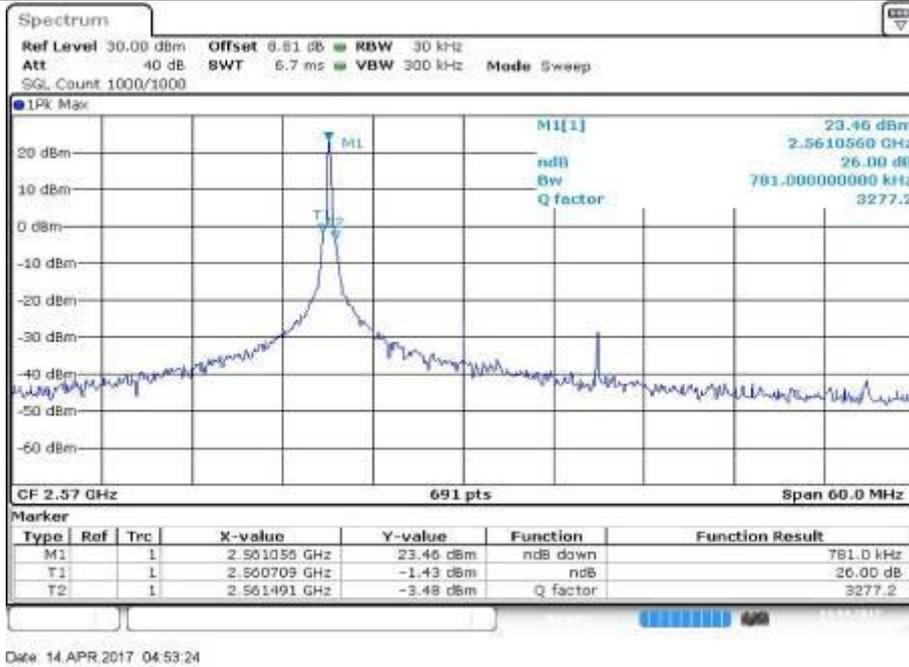


Fig.5

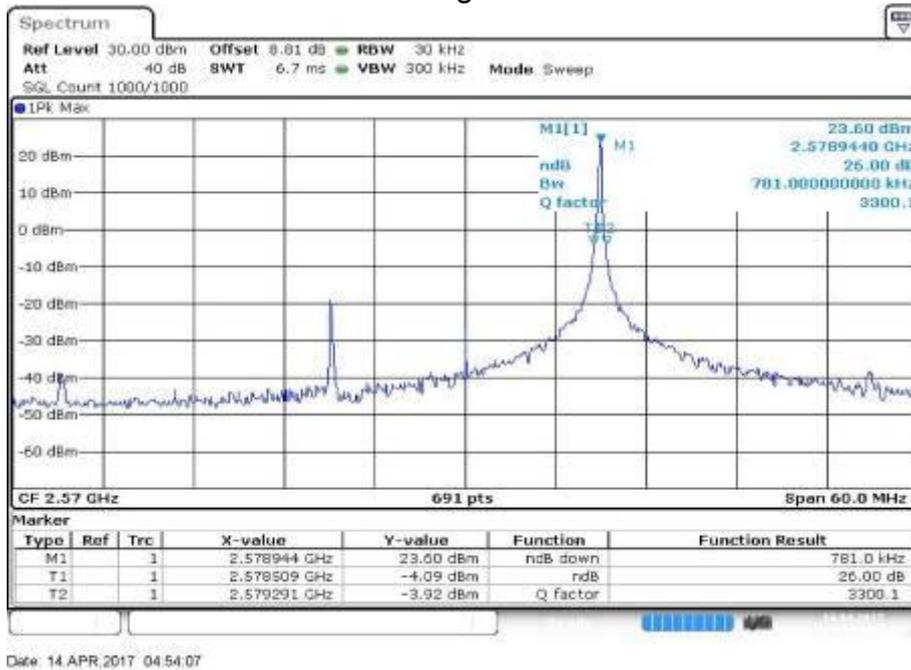


Fig.6



Fig.7

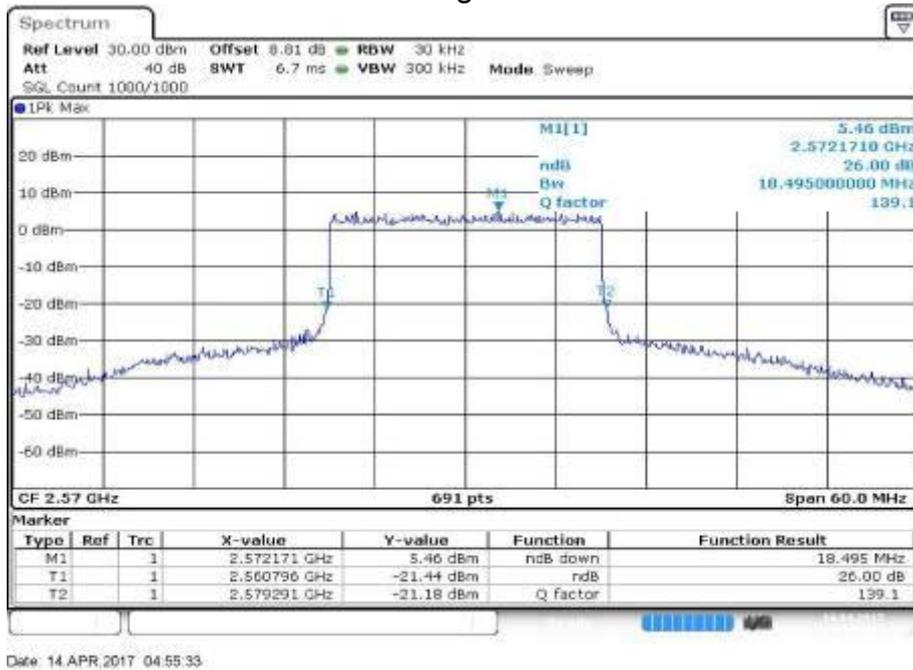


Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)			
						QPSK		16-QAM	
41	2585	40540	20	1	0	0.781	Fig.1	0.781	Fig.5
				1	99	0.781	Fig.2	0.781	Fig.6
				50	25	9.551	Fig.3	9.638	Fig.7
				100	0	18.582	Fig.4	18.495	Fig.8

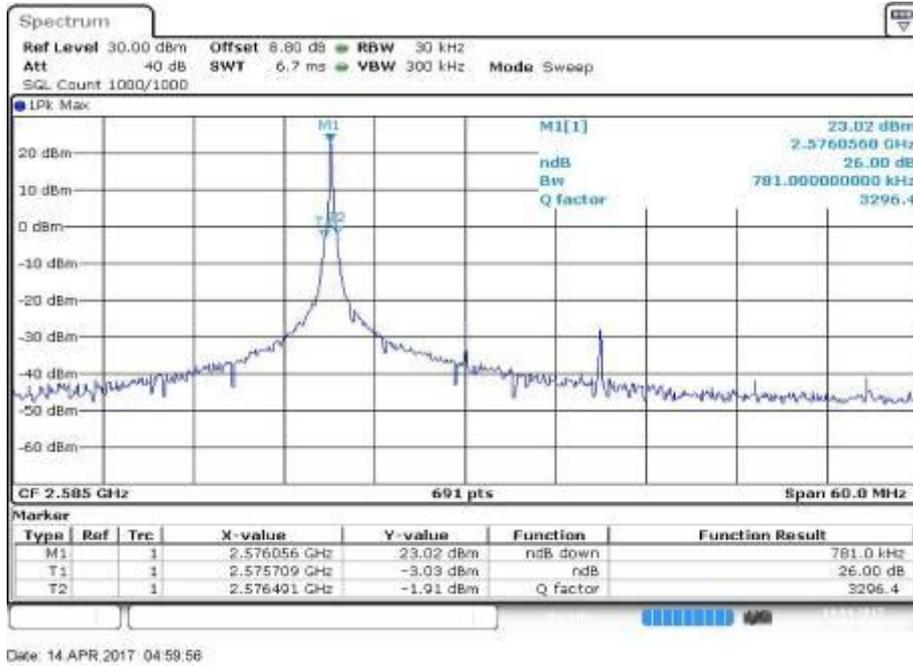


Fig.1

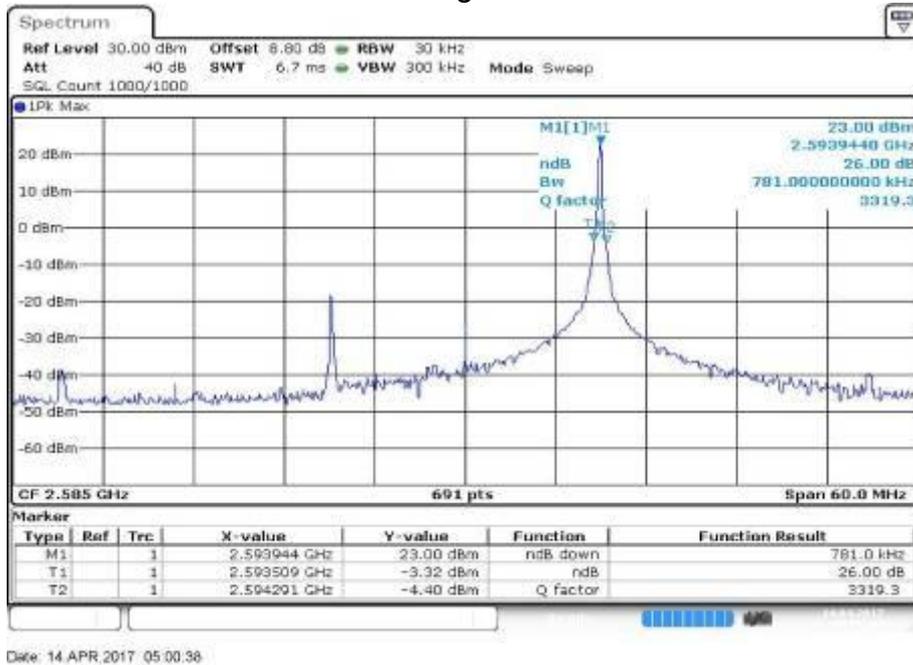


Fig.2

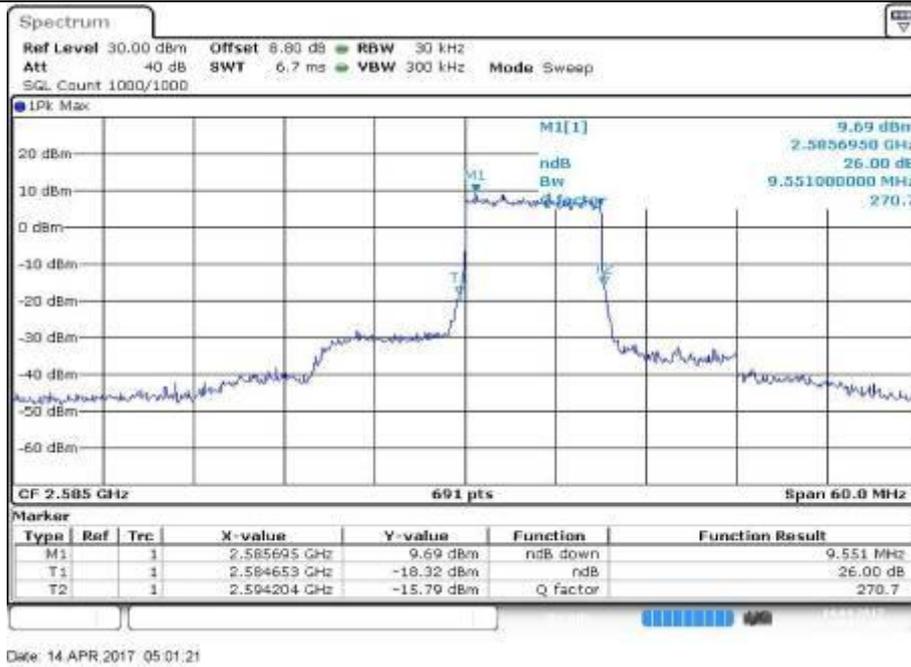


Fig.3

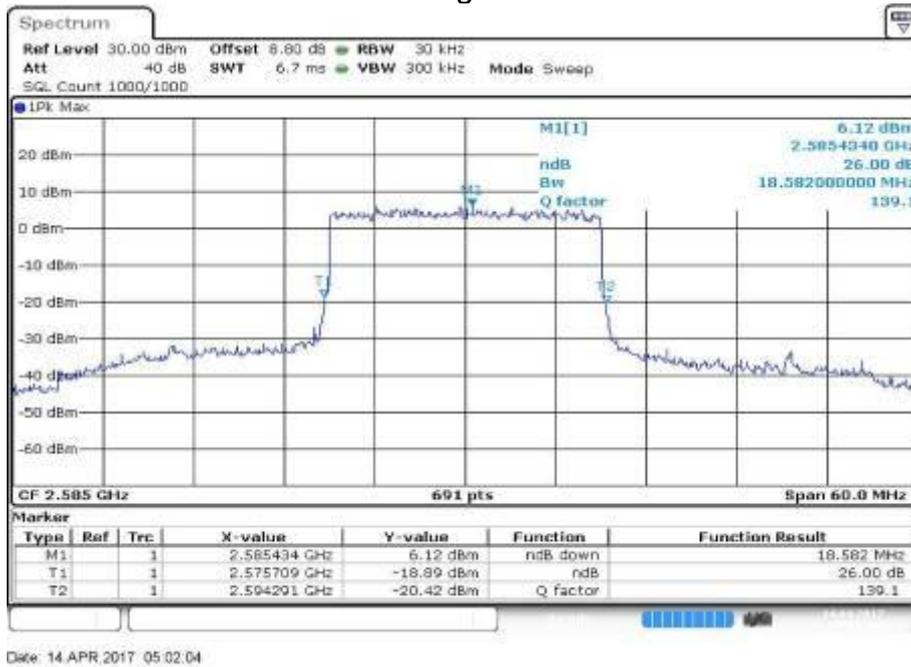


Fig.4

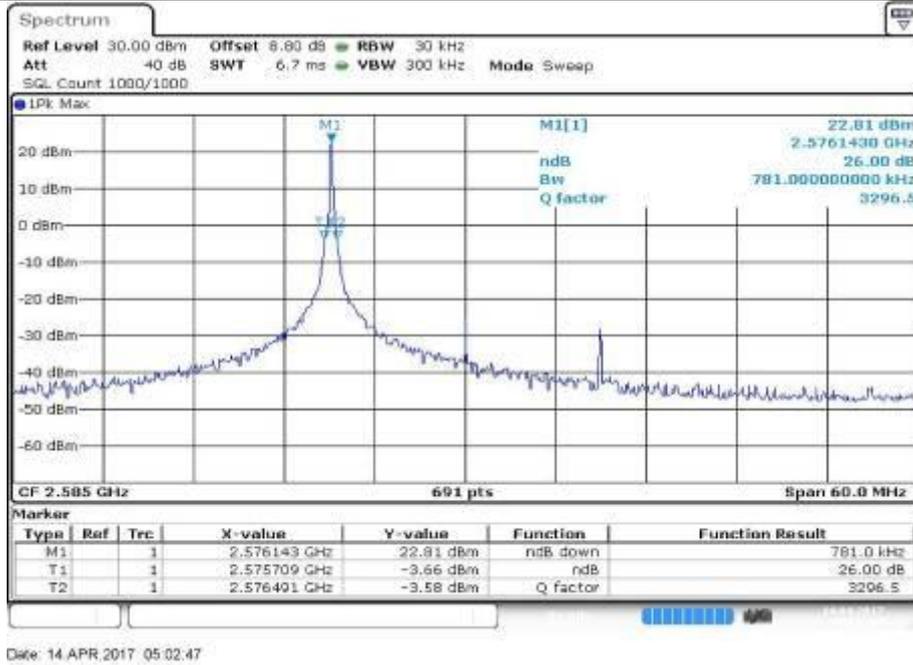


Fig.5

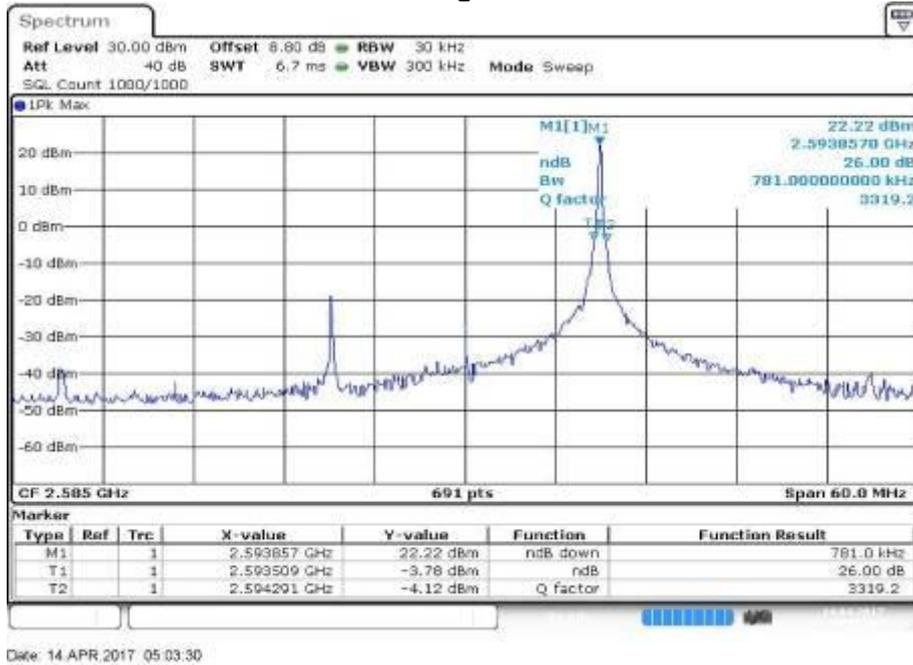


Fig.6



Fig.7

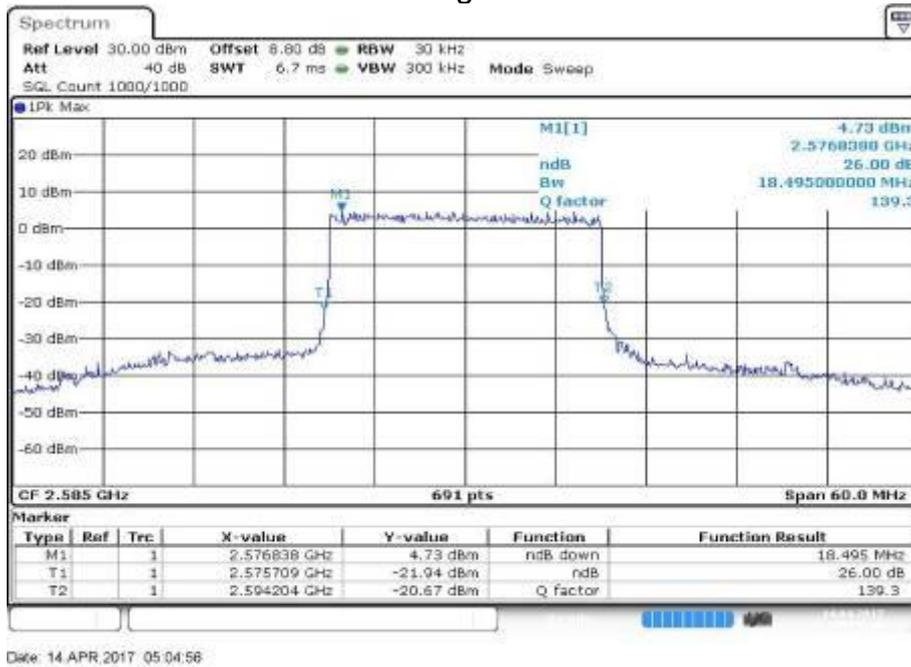


Fig.8

### 4 Peak-Average Ratio -FCC Part 27.53

Test result:



Date: 14 APR 2017 03:26:16

Peak-Average Ratio Plot(5MHz BW,QPSK,Band 41-mid Channel)



Date: 14 APR 2017 03:26:28

Peak-Average Ratio Plot(5MHz BW,16QAM,Band 41-mid Channel)



Date: 14 APR 2017 03:55:50

Peak-Average Ratio Plot(10MHz BW,QPSK,Band 41-mid Channel)



Date: 14 APR 2017 03:56:01

Peak-Average Ratio Plot(10MHz BW,16QAM,Band 41-mid Channel)



Date: 14 APR 2017 04:25:56

Peak-Average Ratio Plot(15MHz BW,QPSK,Band 41-mid Channel)



Date: 14 APR 2017 04:26:08

Peak-Average Ratio Plot(15MHz BW,16QAM,Band 41-mid Channel)



Date: 14 APR 2017 04:55:49

Peak-Average Ratio Plot(20MHz BW,QPSK,Band 41-mid Channel)



Date: 14 APR 2017 04:56:01

Peak-Average Ratio Plot(20MHz BW,16QAM,Band 41-mid Channel)

**5Spurious Emissions at antenna terminal-FCC Part2.1051/27.53(h)/22.53(m)**

Test result

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
41	2547.5	40165	5	1	0	Fig.1	Fig.5
				1	24	Fig.2	Fig.6

				12	6	Fig.3	Fig.7
				25	0	Fig.4	Fig.8

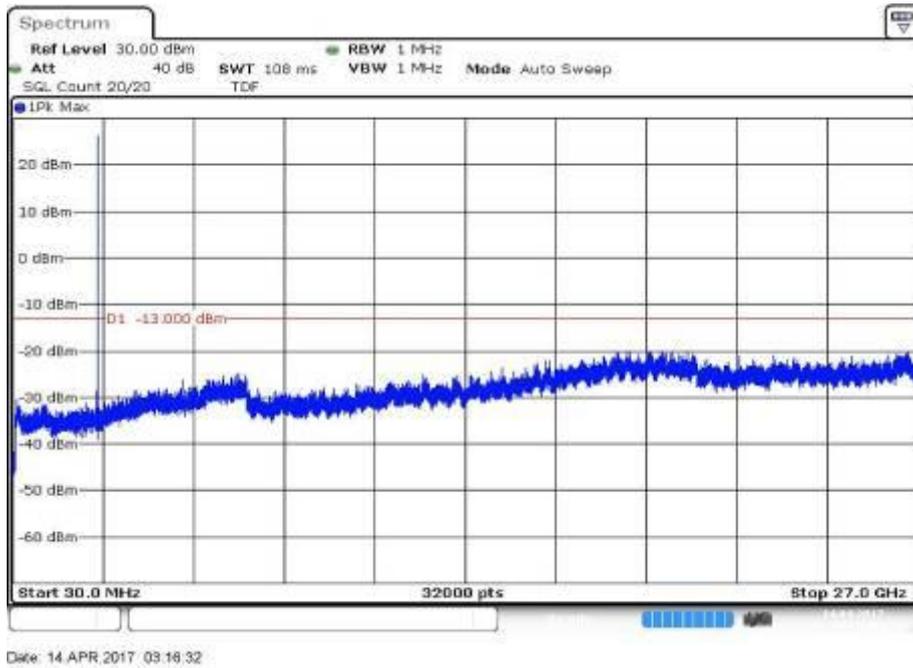


Fig.1

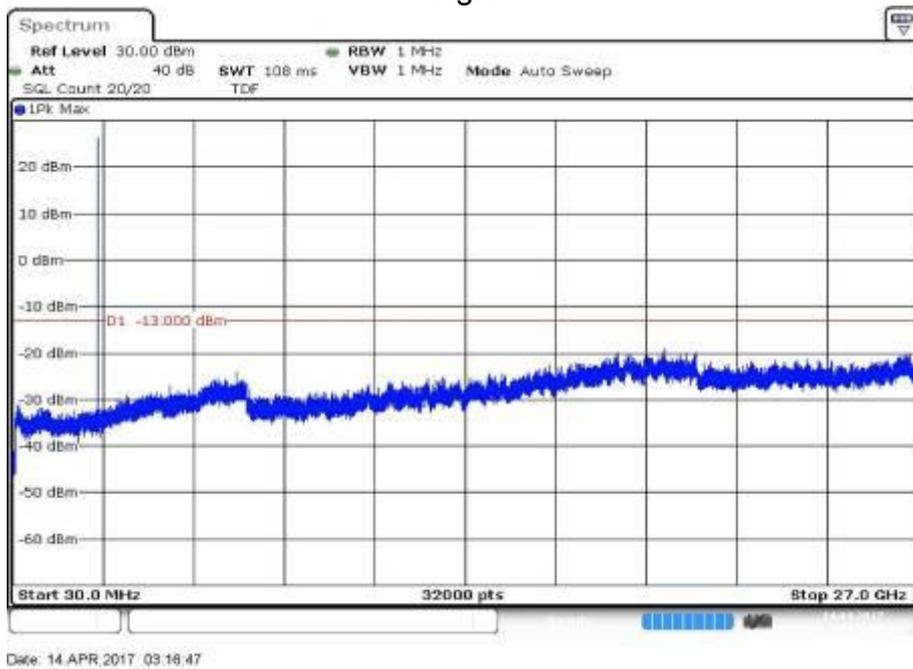


Fig.2

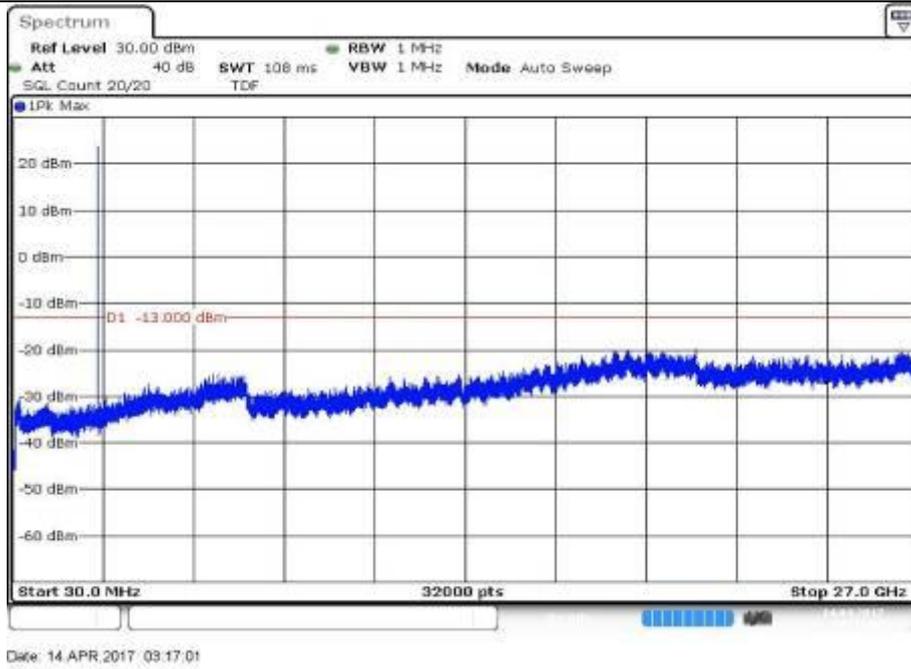


Fig.3

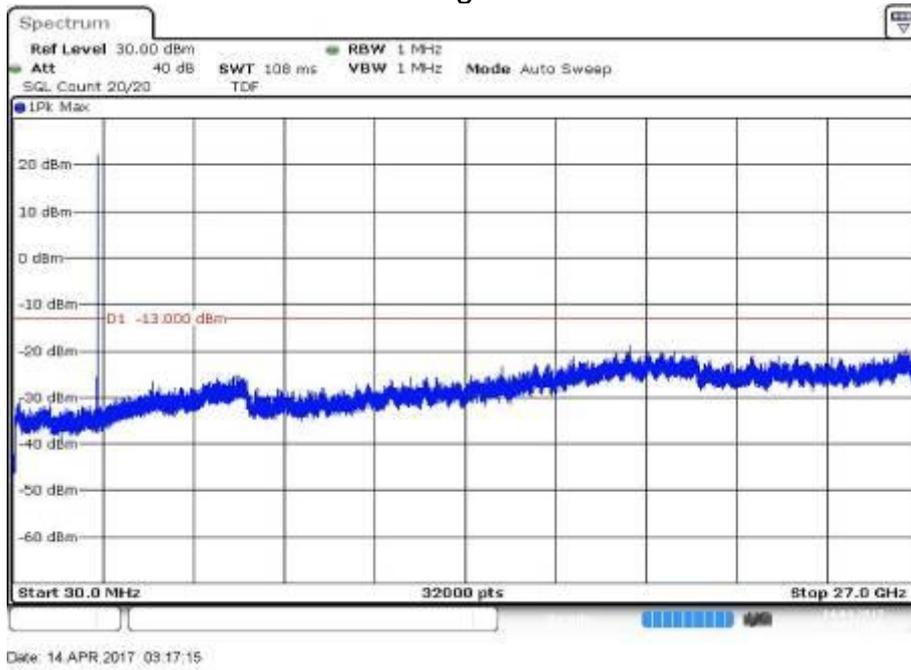


Fig.4

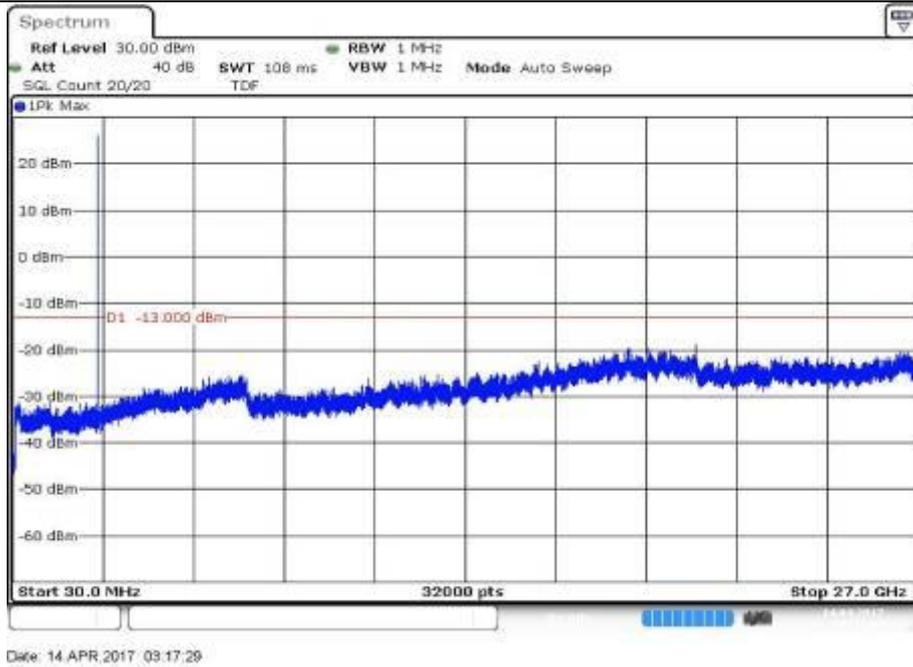


Fig.5

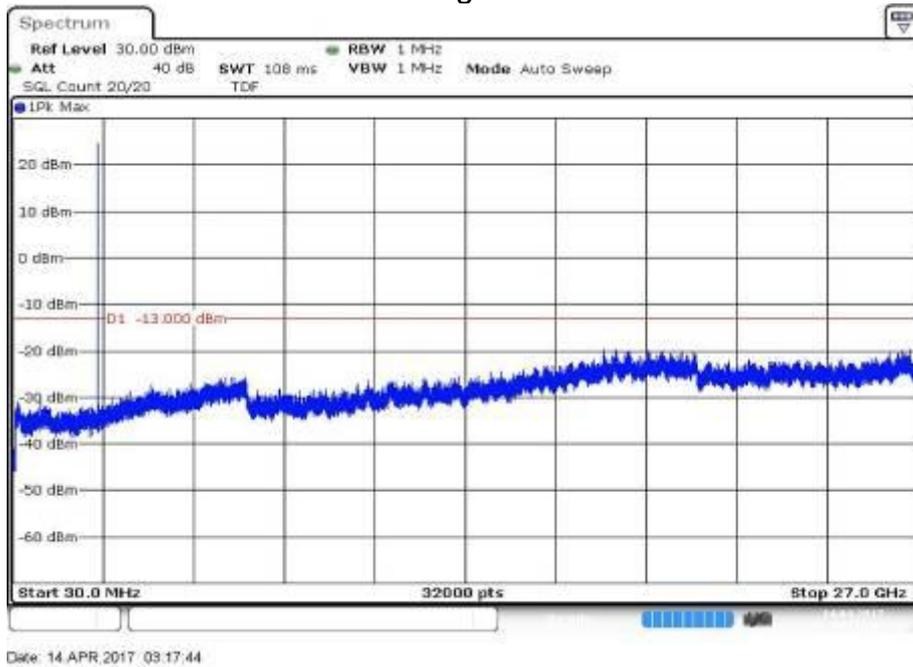


Fig.6

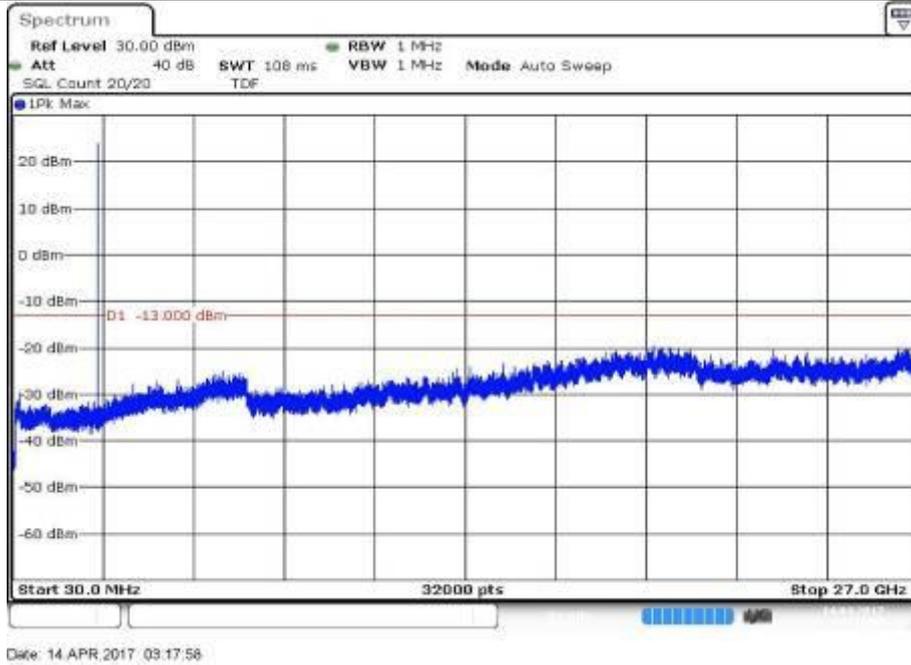


Fig.7

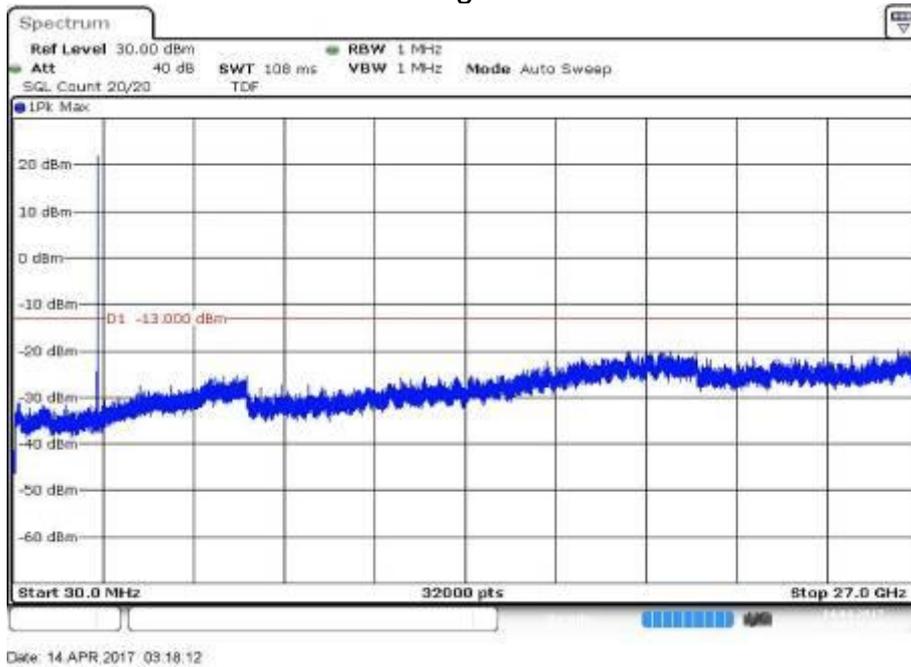


Fig.8

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
41	2570	40390	5	1	0	Fig.1	Fig.5
				1	24	Fig.2	Fig.6
				12	6	Fig.3	Fig.7
				25	0	Fig.4	Fig.8

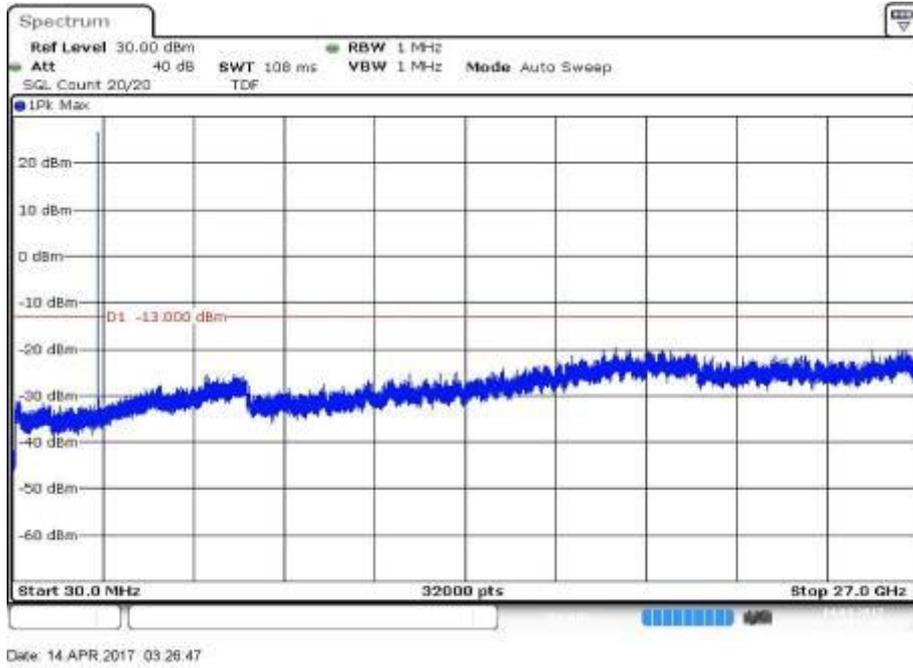


Fig.1

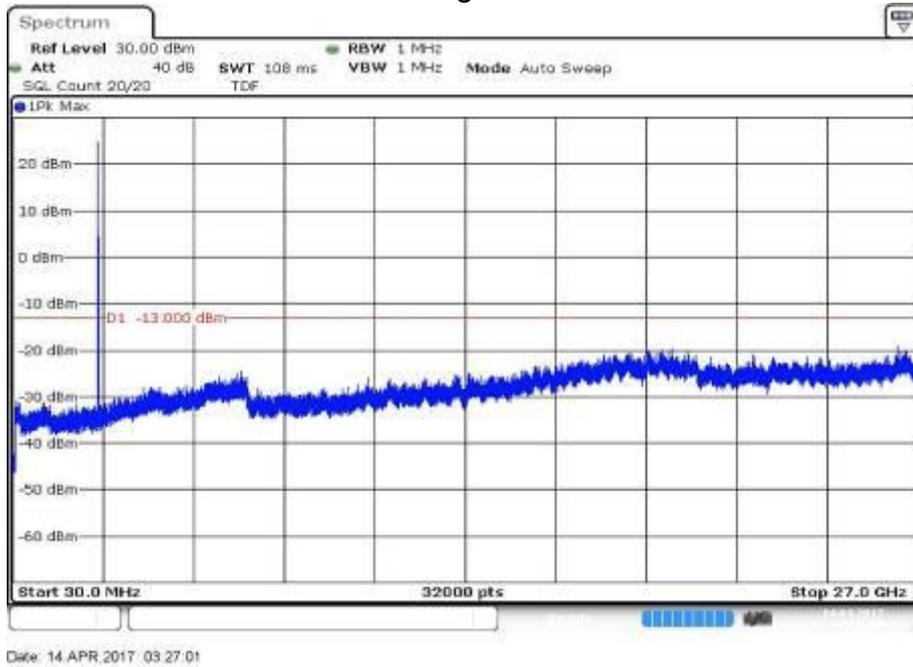


Fig.2

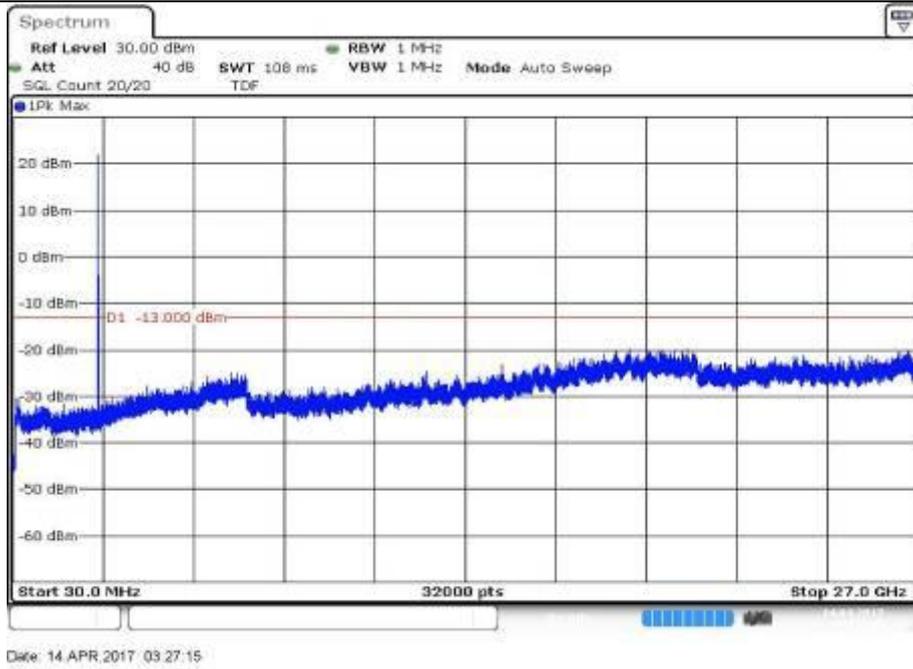


Fig.3

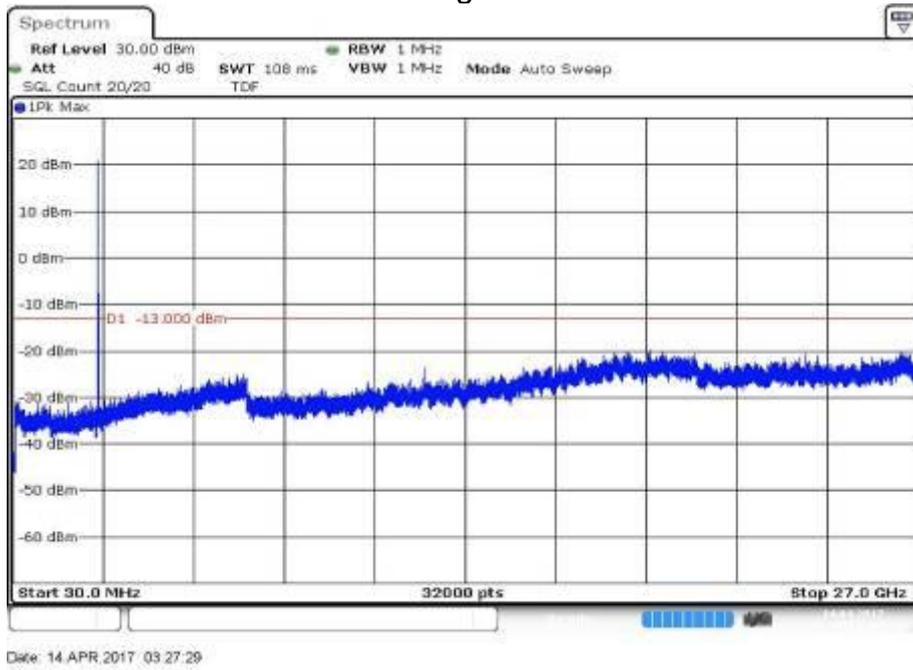


Fig.4

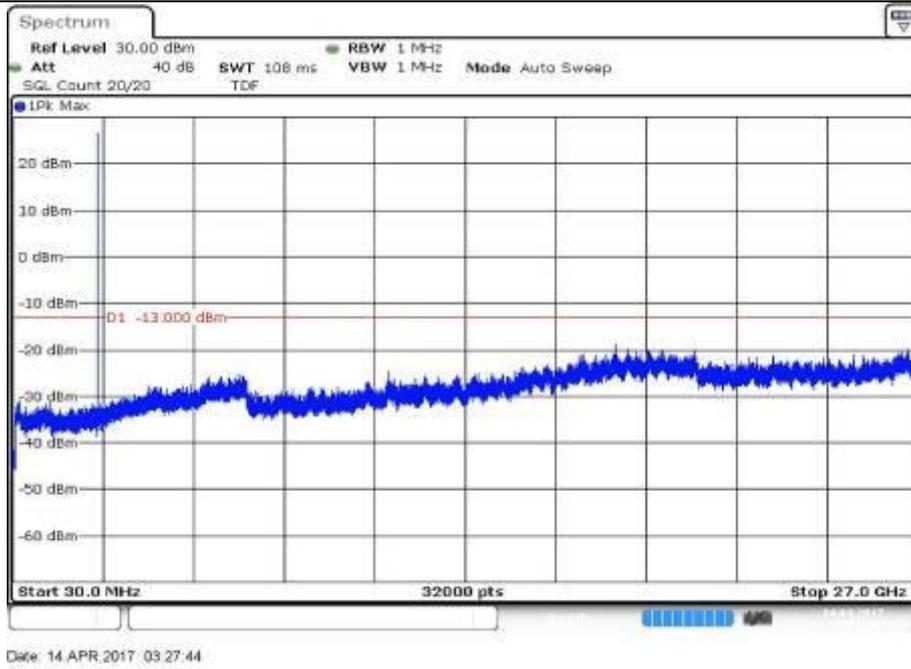


Fig.5

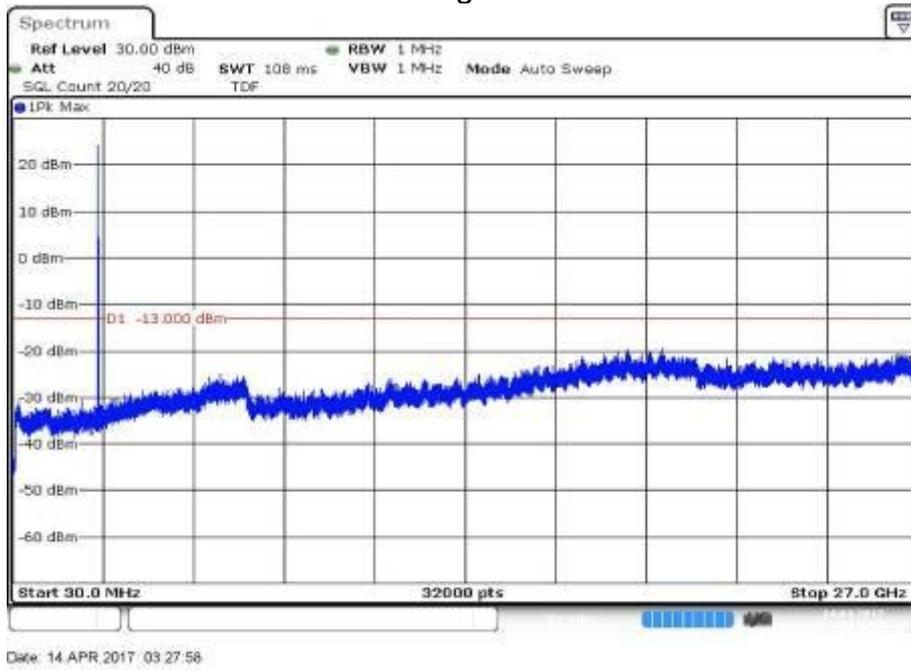


Fig.6

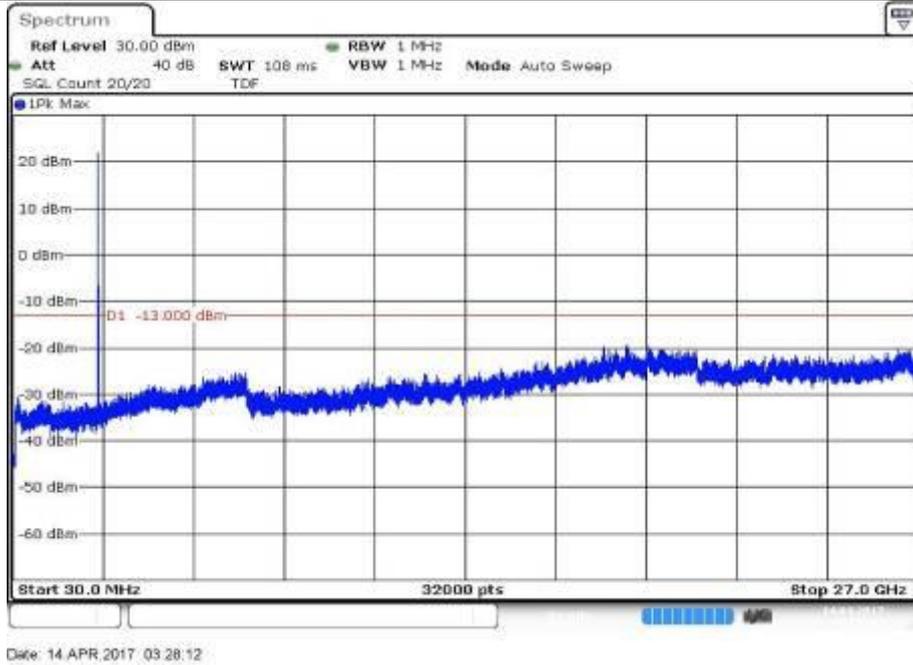


Fig.7

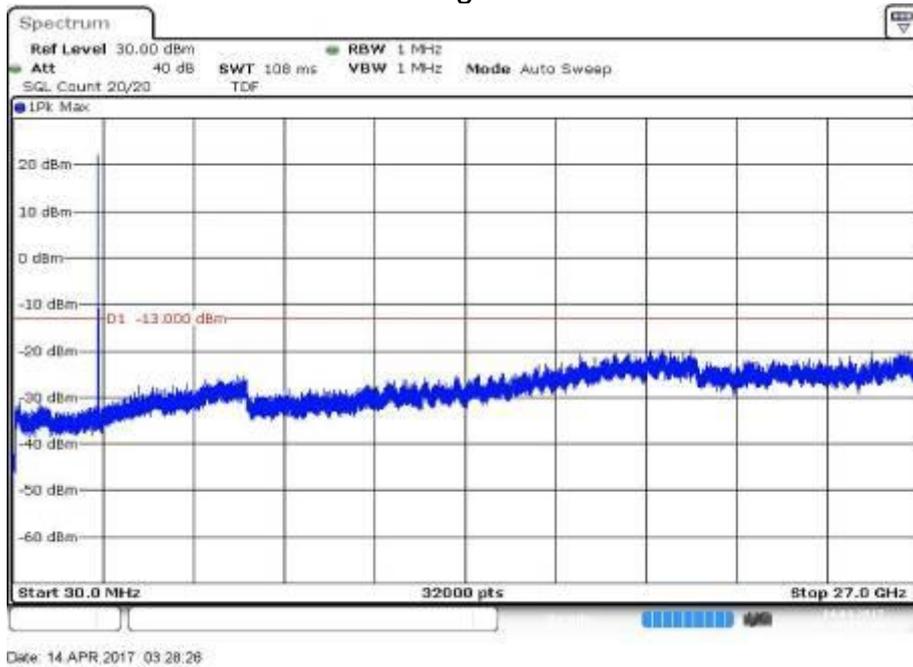
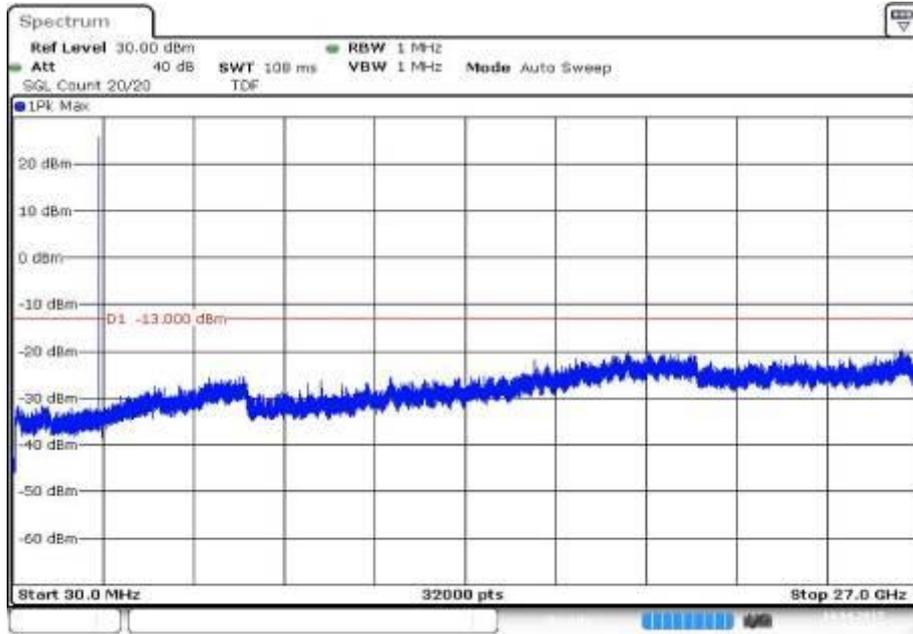


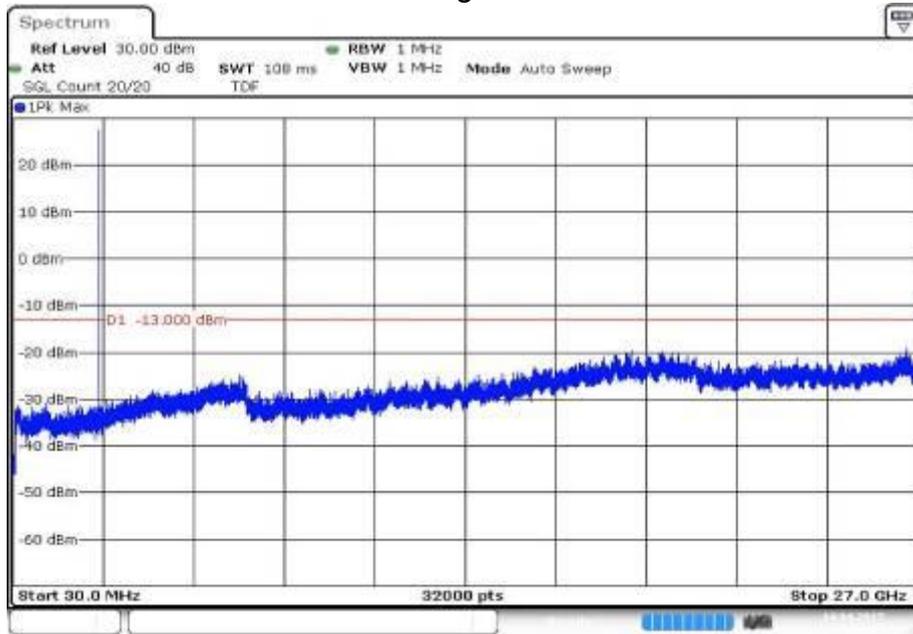
Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
41	2592.5	40615	5	1	0	Fig.1	Fig.5
				1	24	Fig.2	Fig.6
				12	6	Fig.3	Fig.7
				25	0	Fig.4	Fig.8



Date: 14 APR 2017 03:35:04

Fig.1



Date: 14 APR 2017 03:35:16

Fig.2

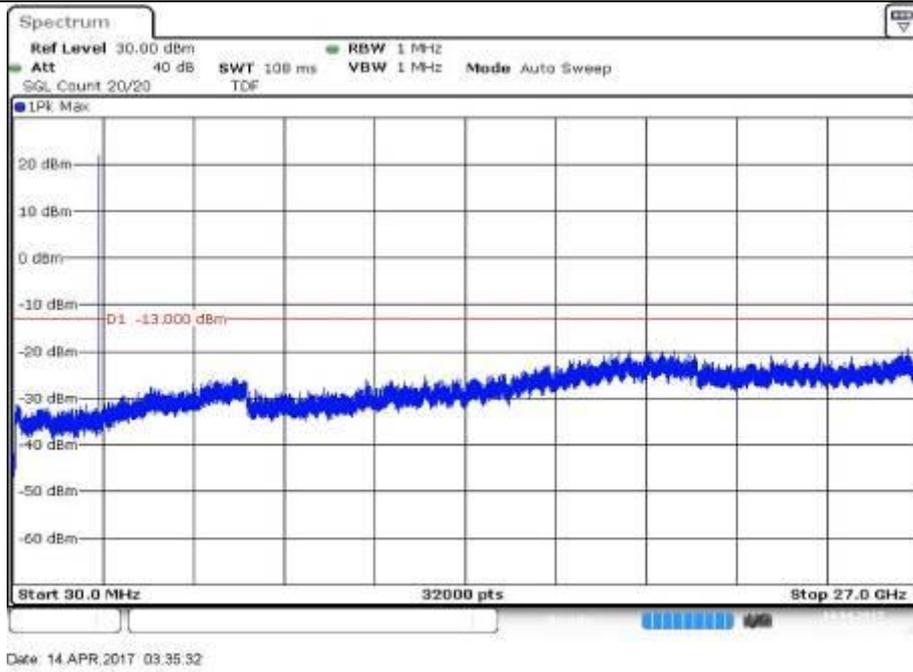


Fig.3

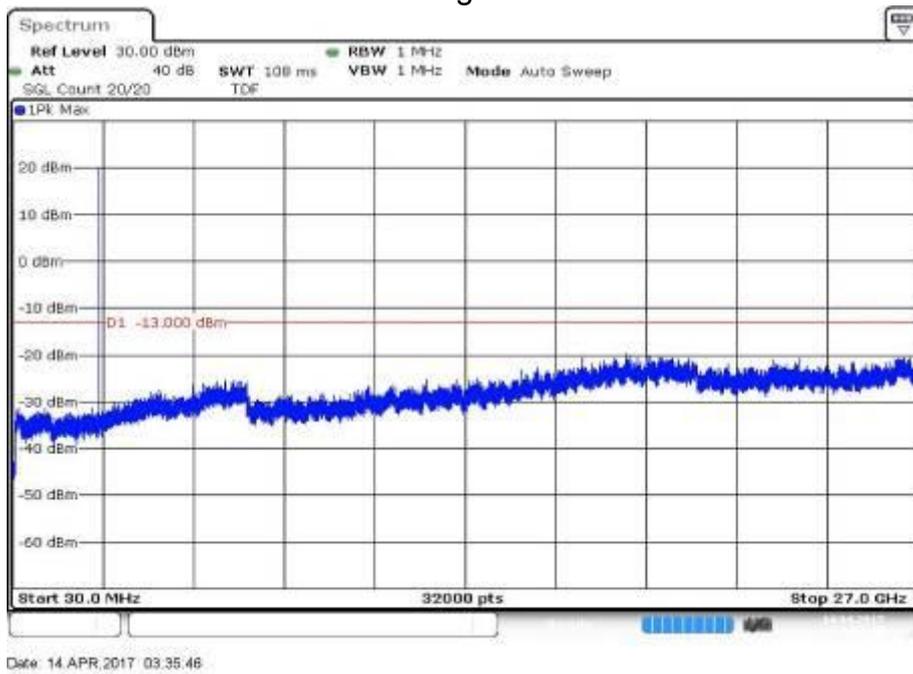


Fig.4

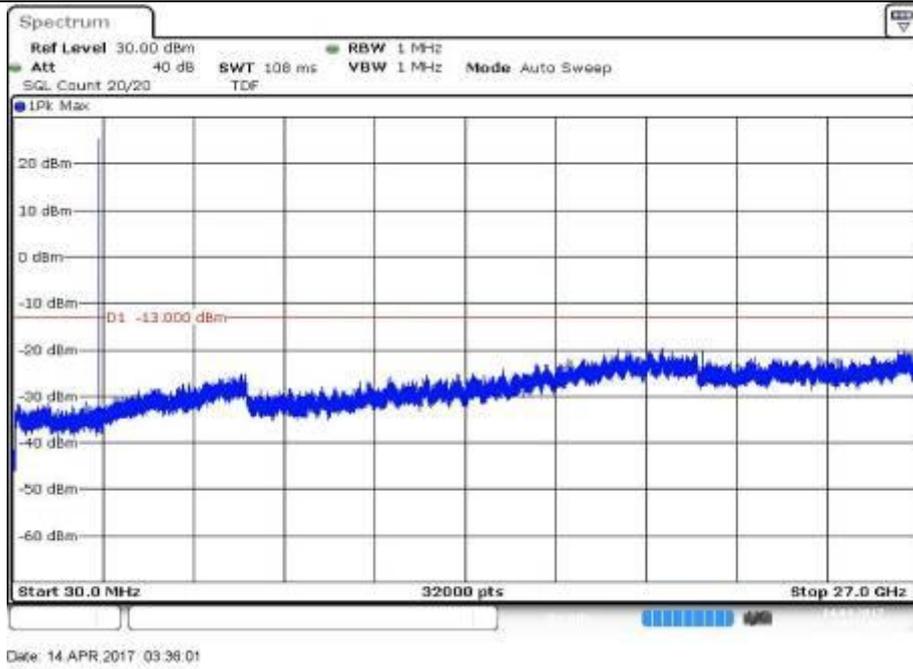


Fig.5

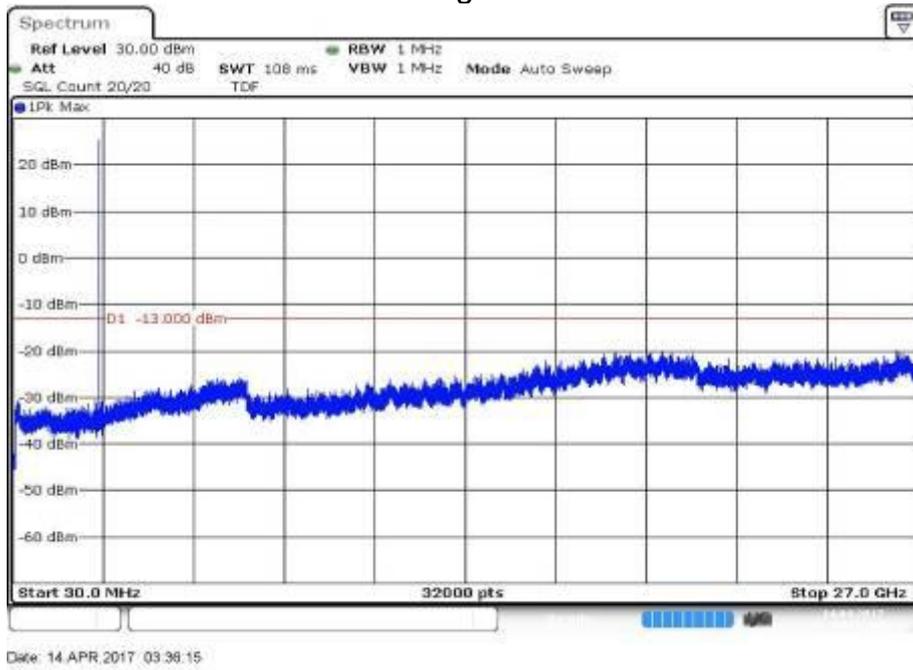


Fig.6

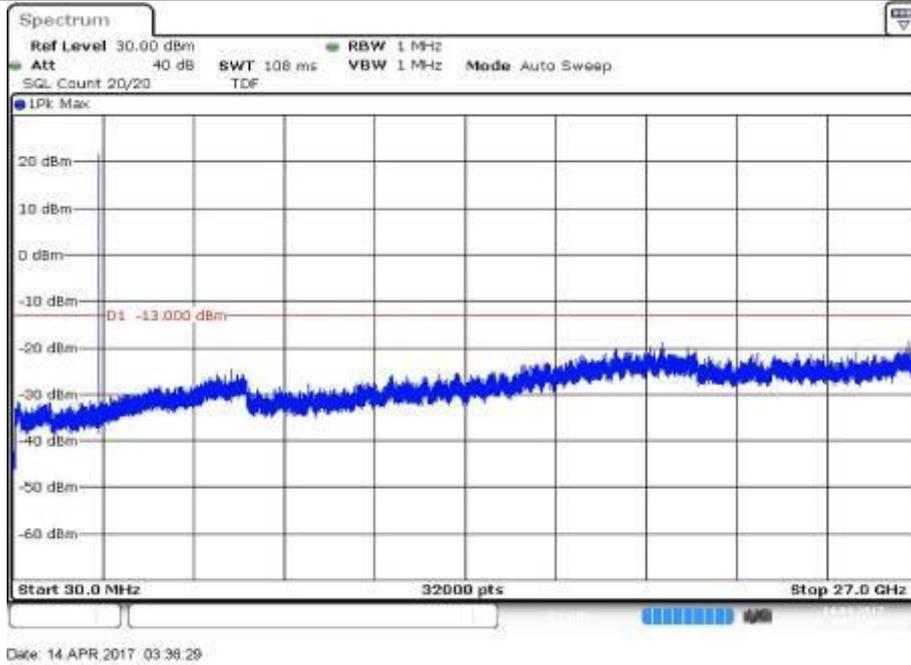


Fig.7

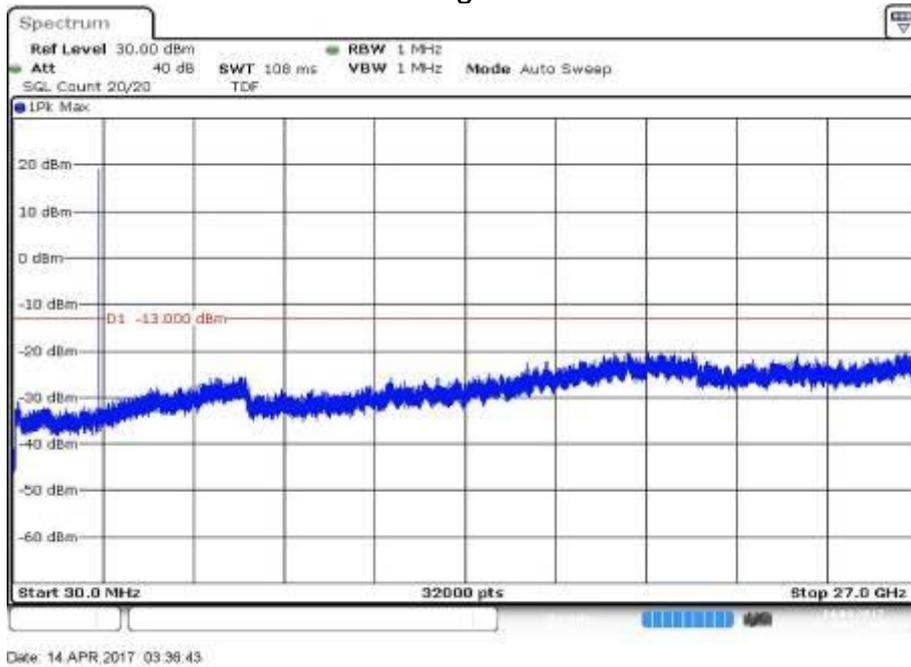
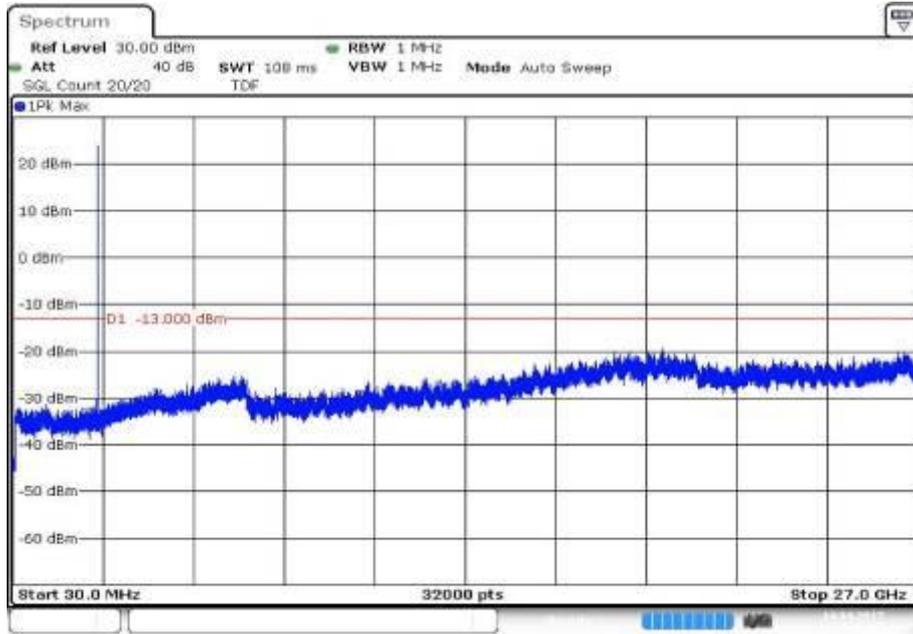


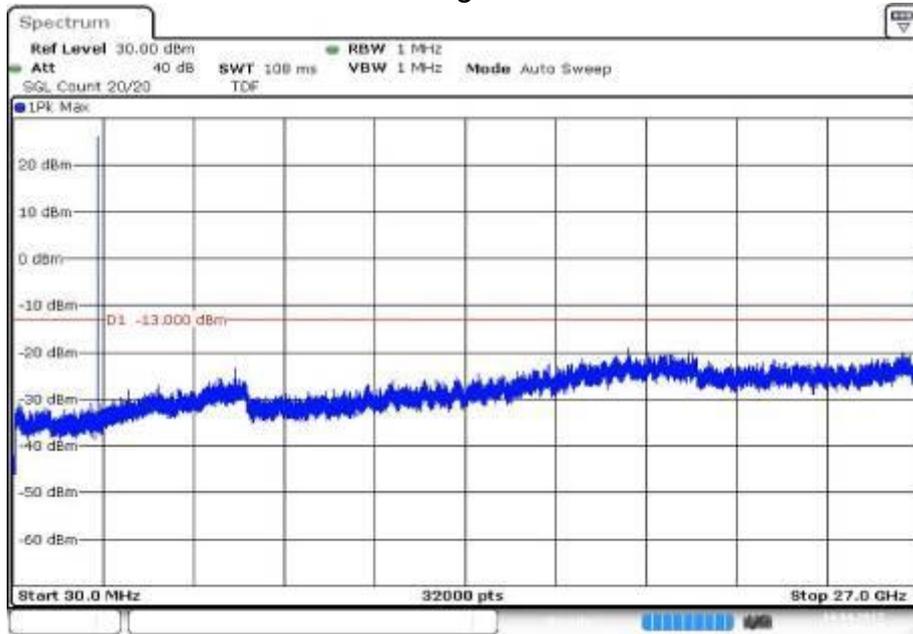
Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
41	2550	40190	10	1	0	Fig.1	Fig.5
				1	49	Fig.2	Fig.6
				24	12	Fig.3	Fig.7
				50	0	Fig.4	Fig.8



Date: 14 APR 2017 03:45:27

Fig.1



Date: 14 APR 2017 03:45:41

Fig.2

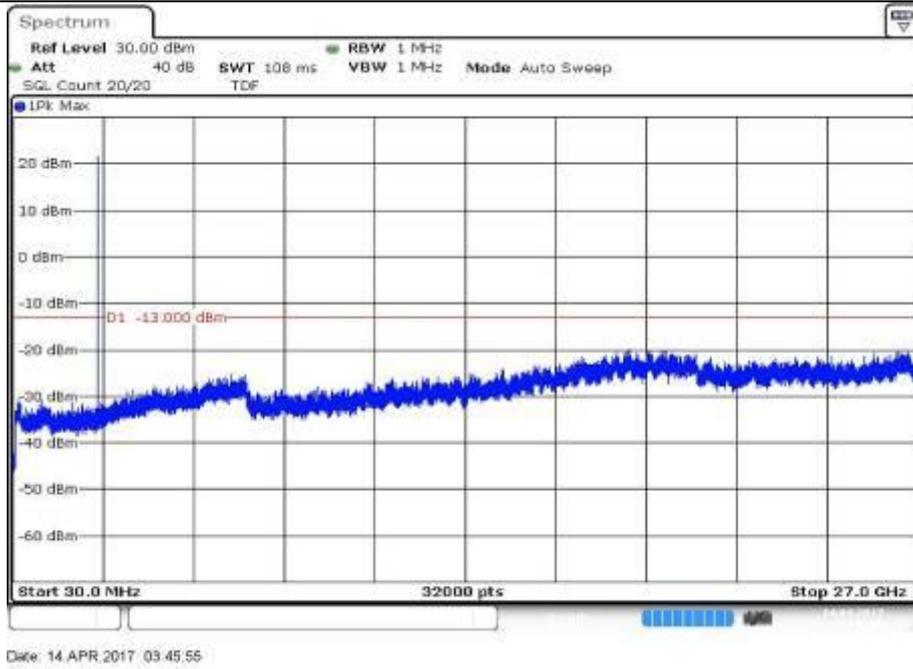


Fig.3

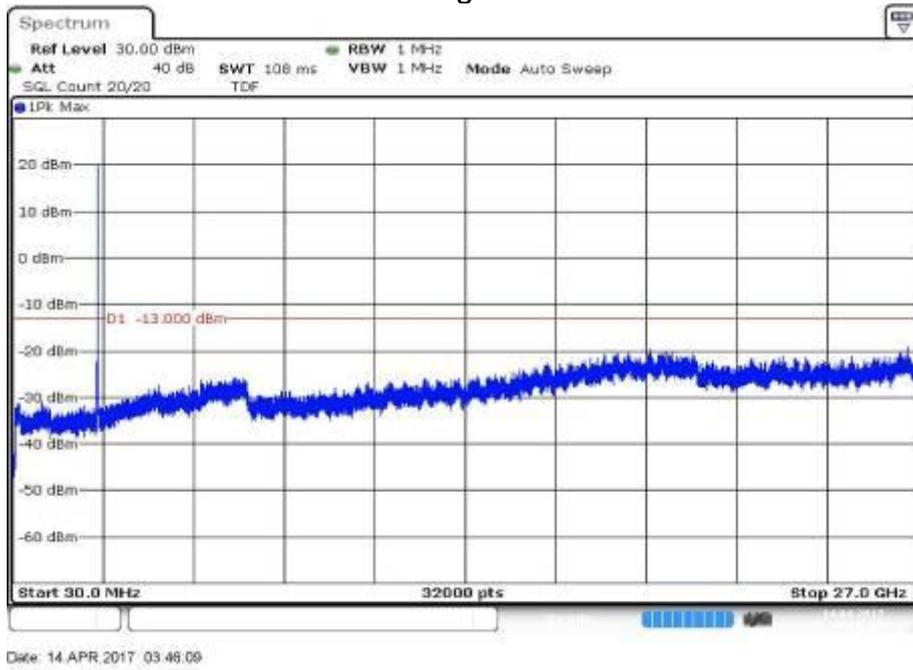


Fig.4

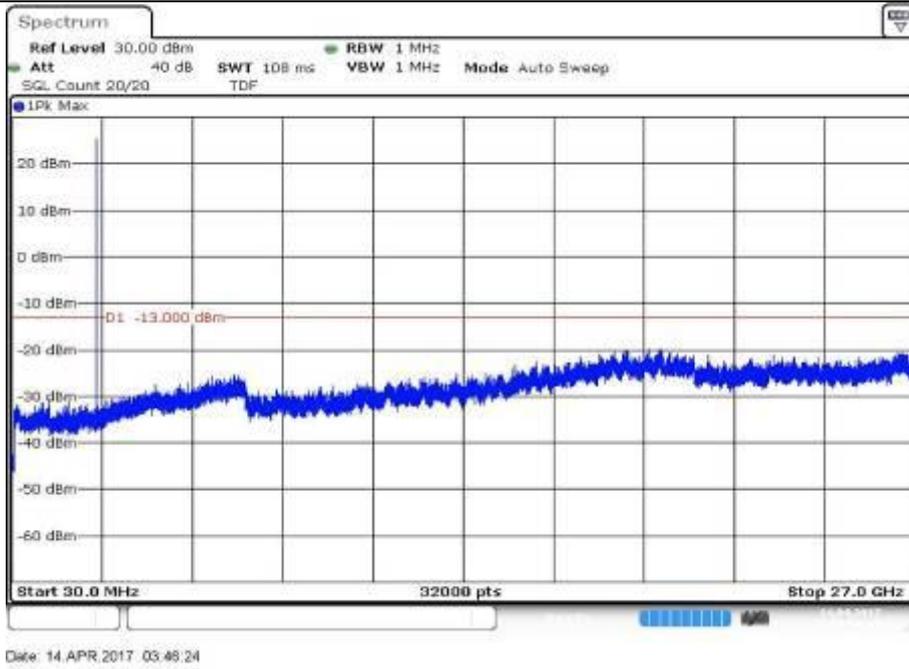


Fig.5

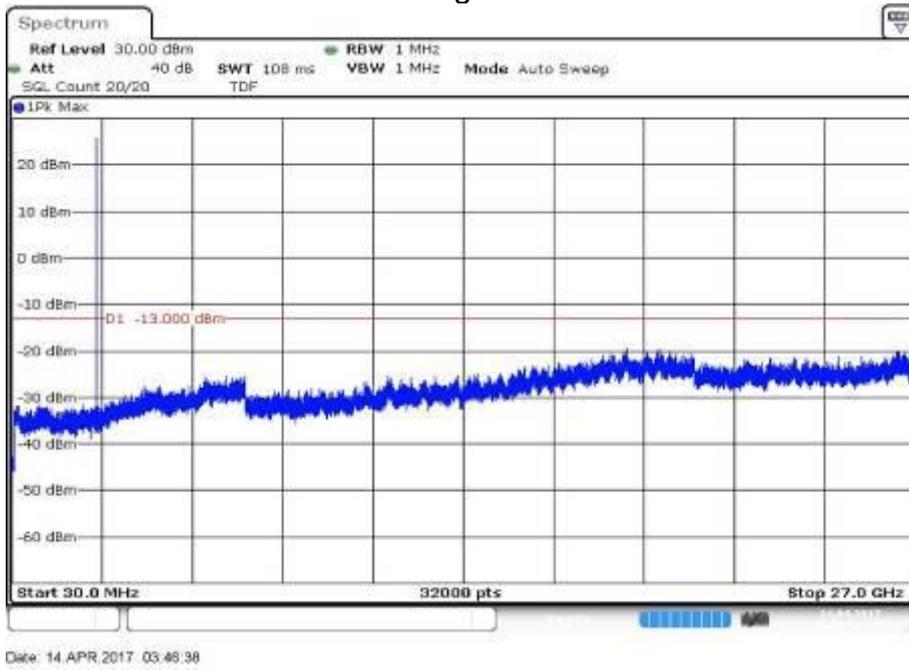


Fig.6

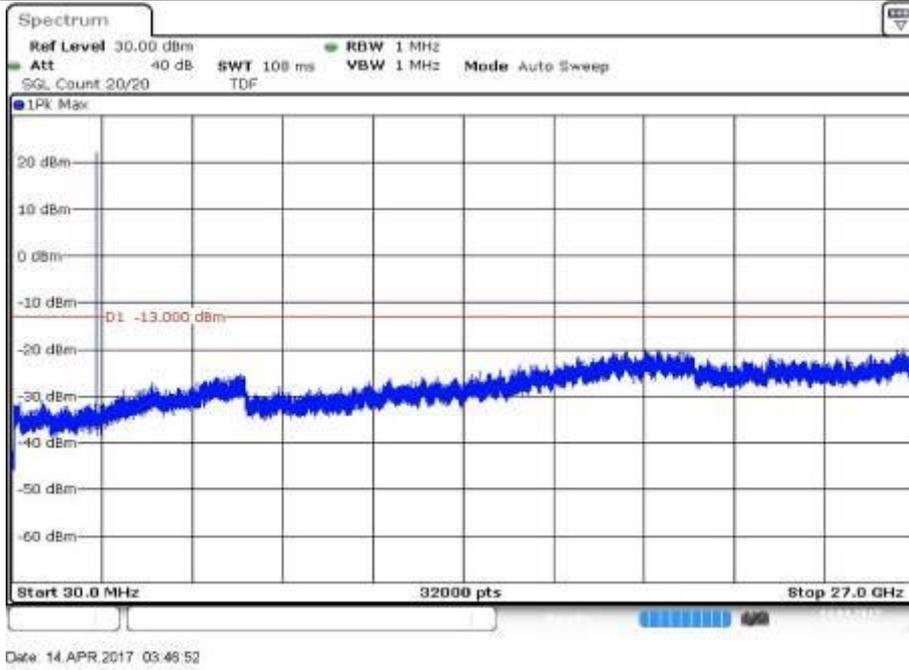


Fig.7

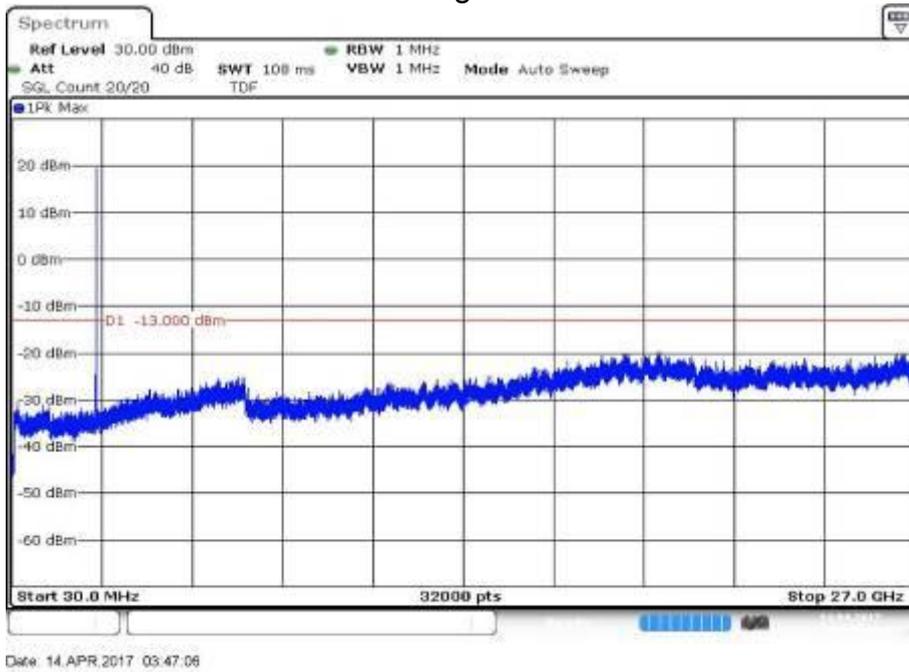


Fig.8

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
41	2570	40390	10	1	0	Fig.1	Fig.5
				1	49	Fig.2	Fig.6
				24	12	Fig.3	Fig.7
				50	0	Fig.4	Fig.8

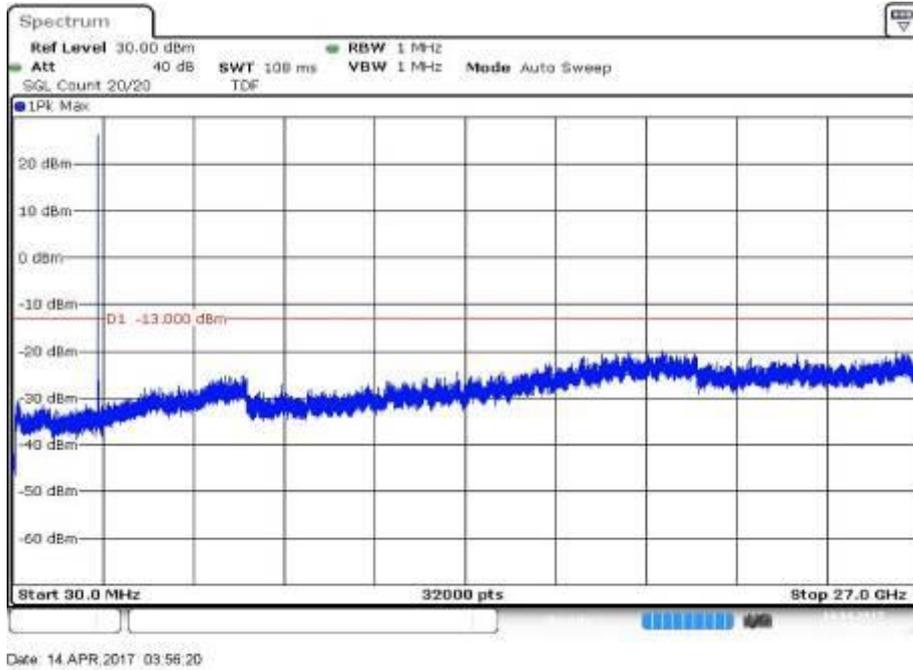


Fig.1

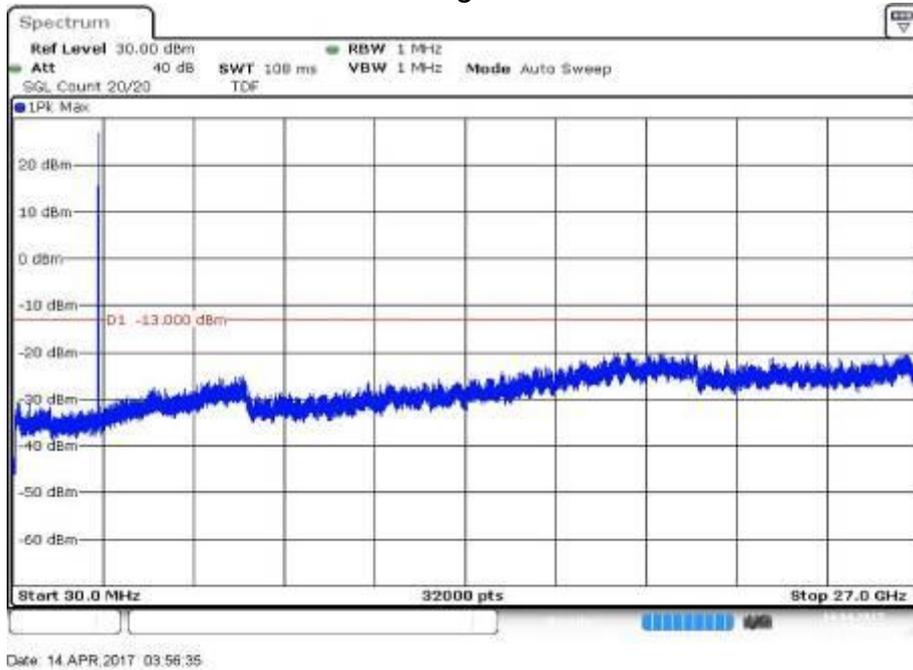


Fig.2

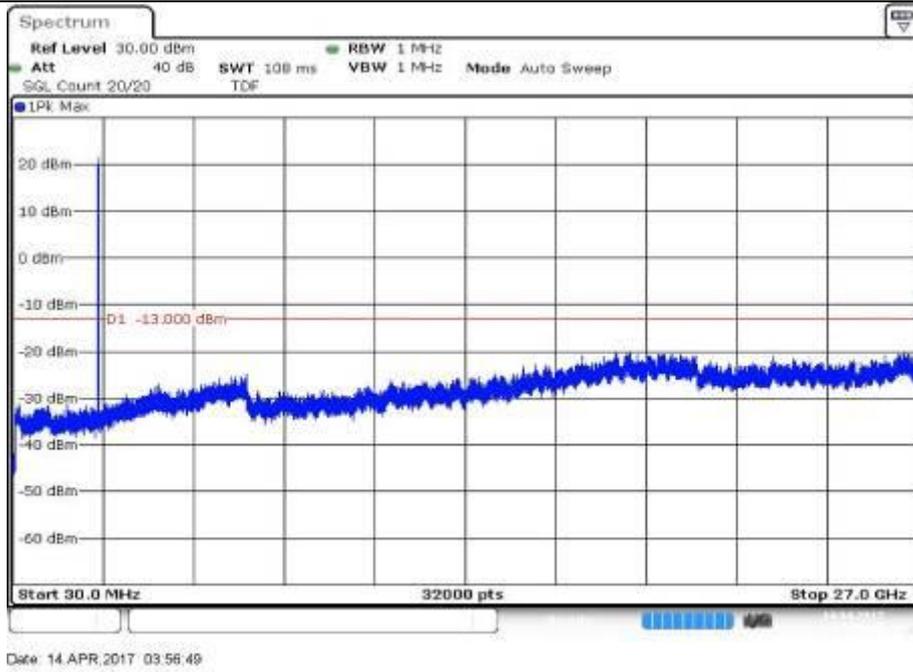


Fig.3

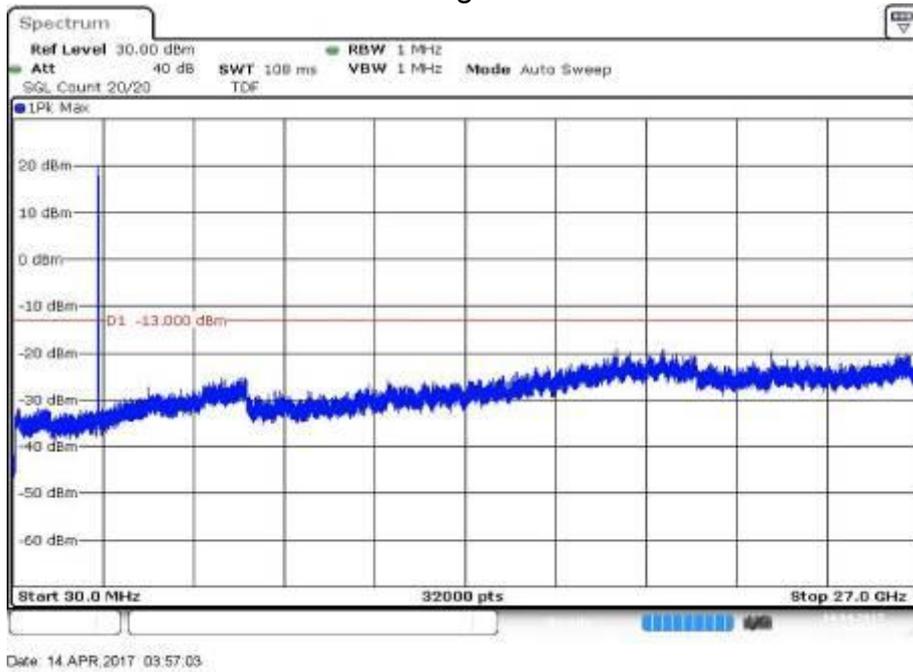


Fig.4

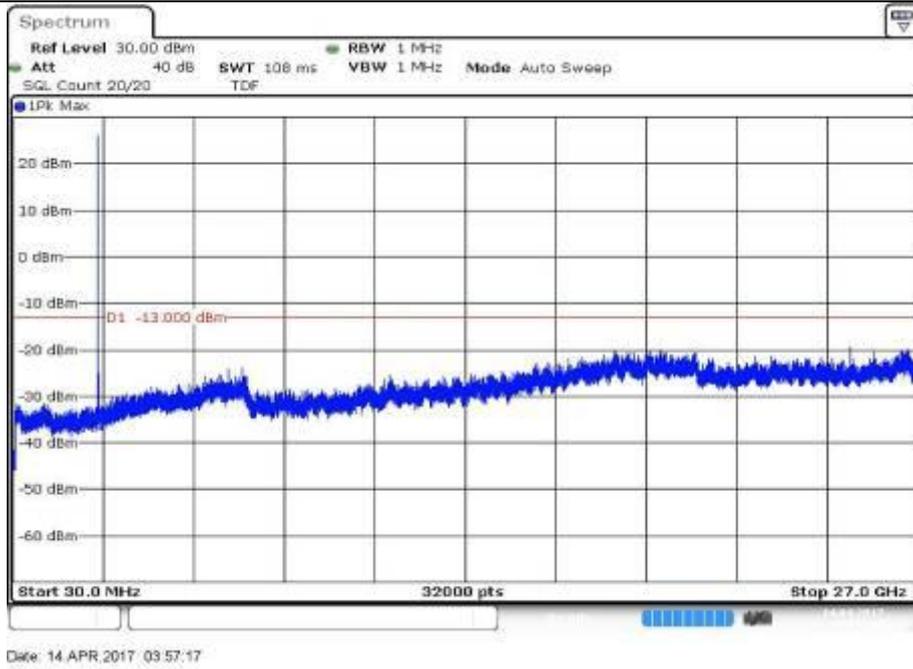


Fig.5

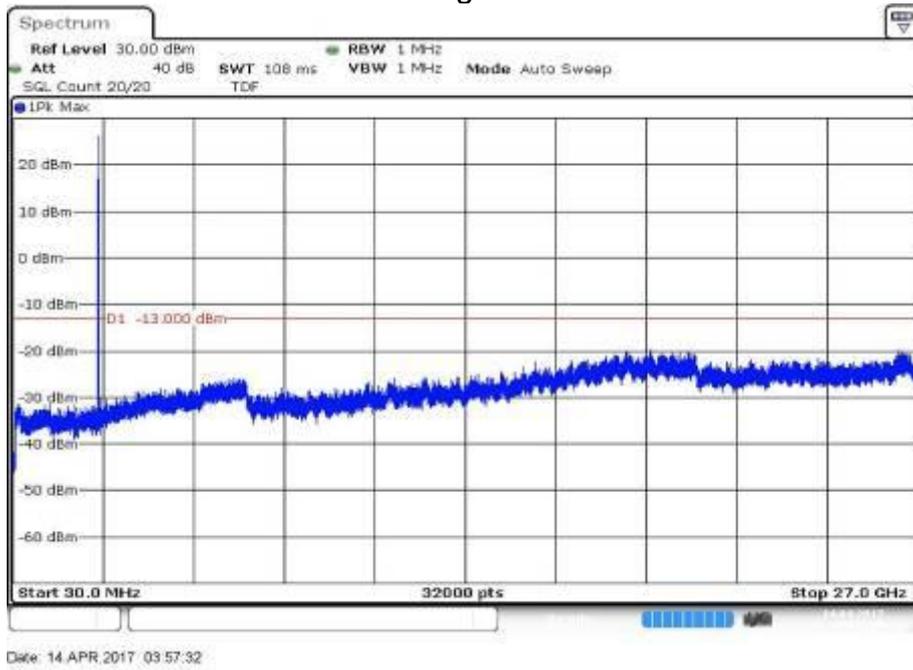
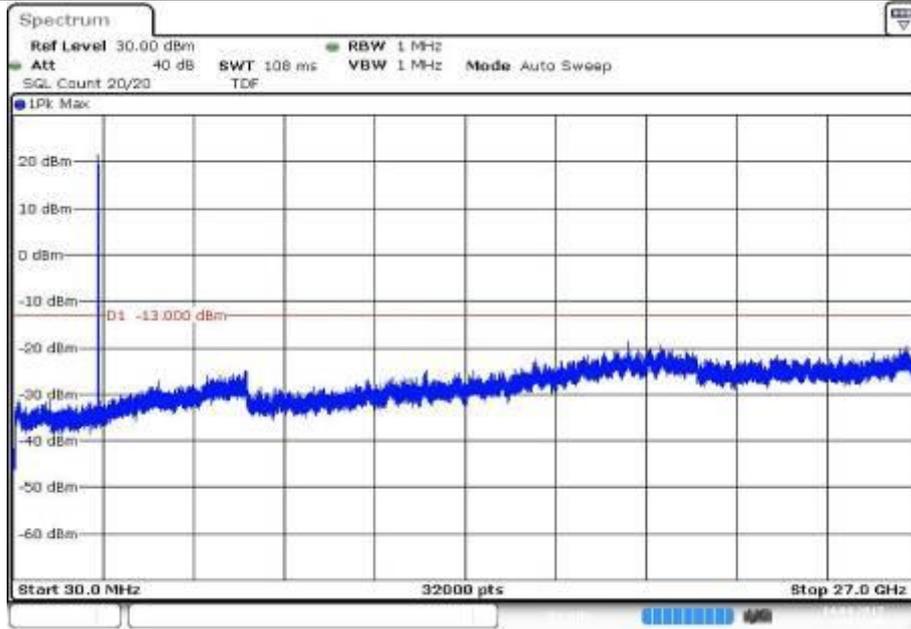
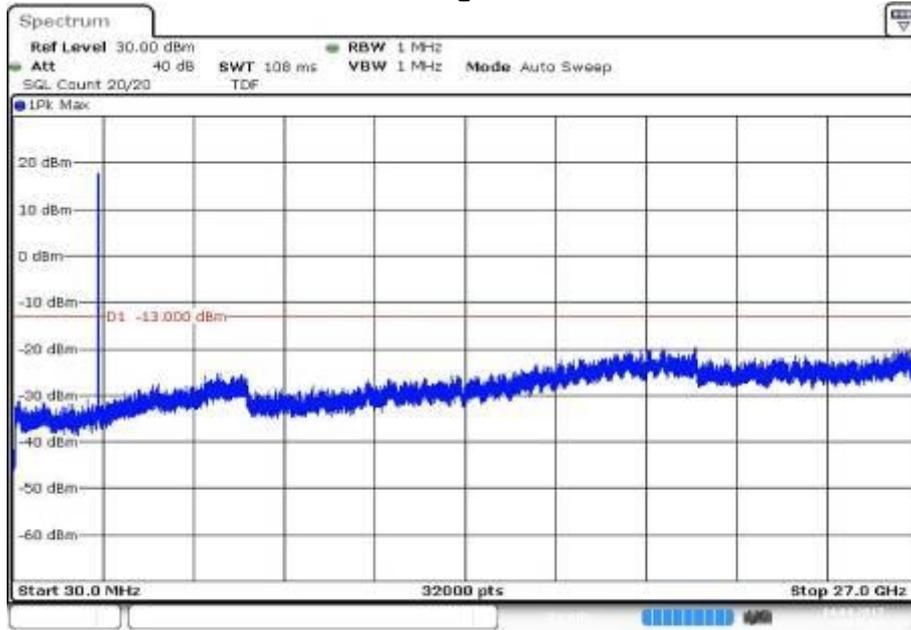


Fig.6



Date: 14 APR 2017 03:57:46

Fig.7



Date: 14 APR 2017 03:58:00

Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
41	2590	40590	10	1	0	Fig.1	Fig.5
				1	49	Fig.2	Fig.6
				24	12	Fig.3	Fig.7
				50	0	Fig.4	Fig.8

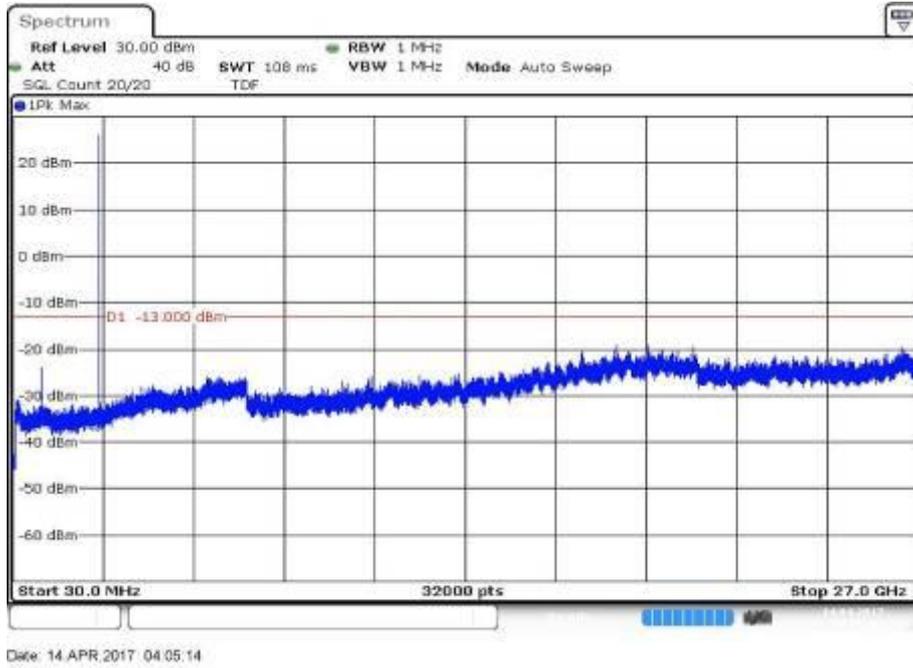


Fig.1

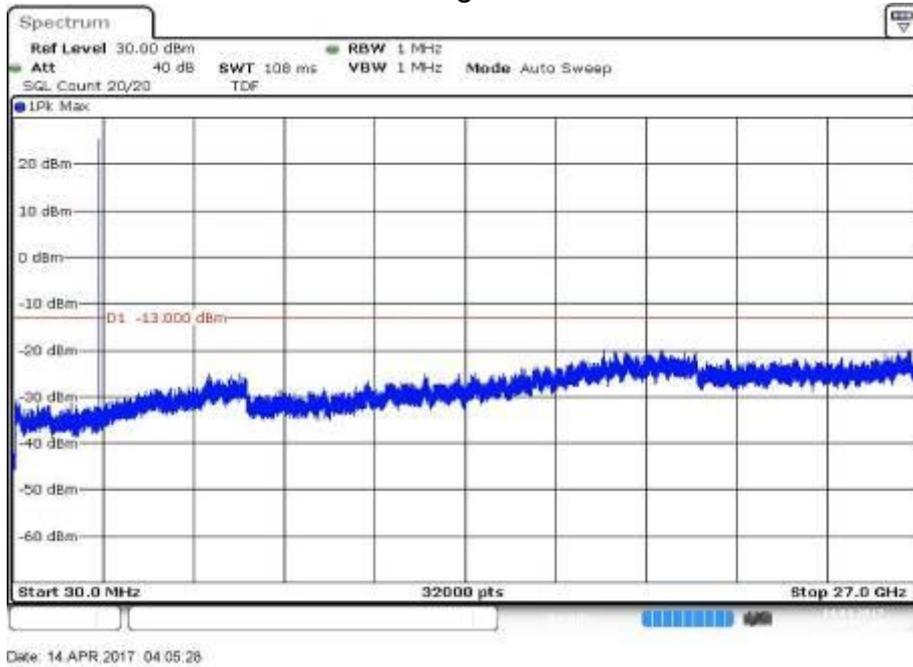


Fig.2

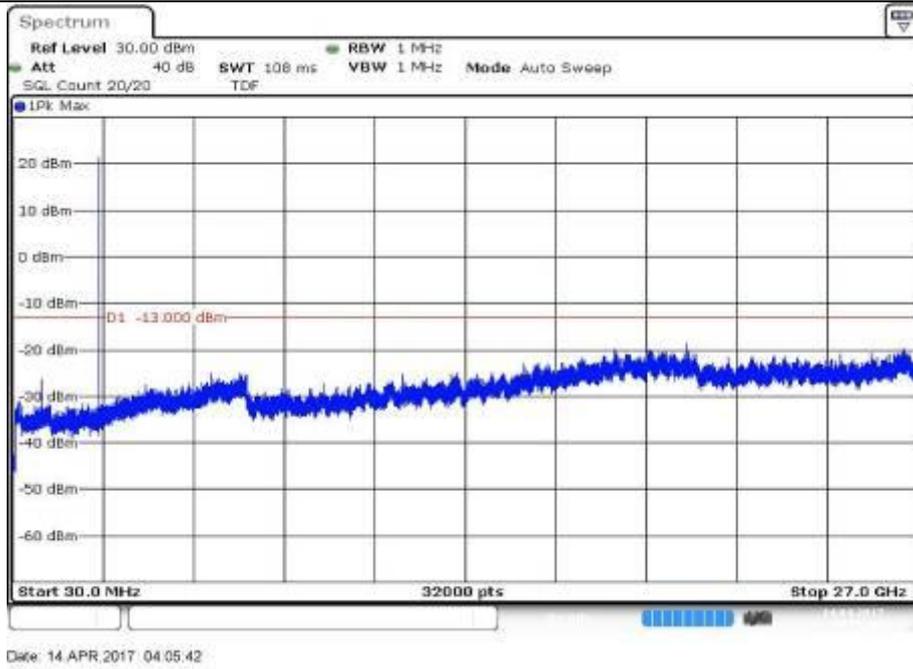


Fig.3

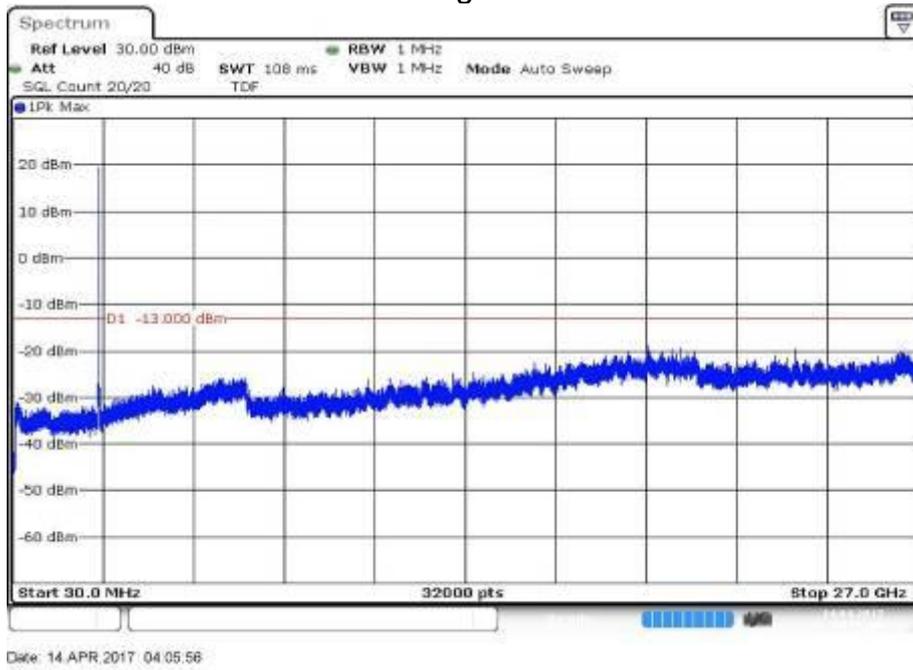


Fig.4

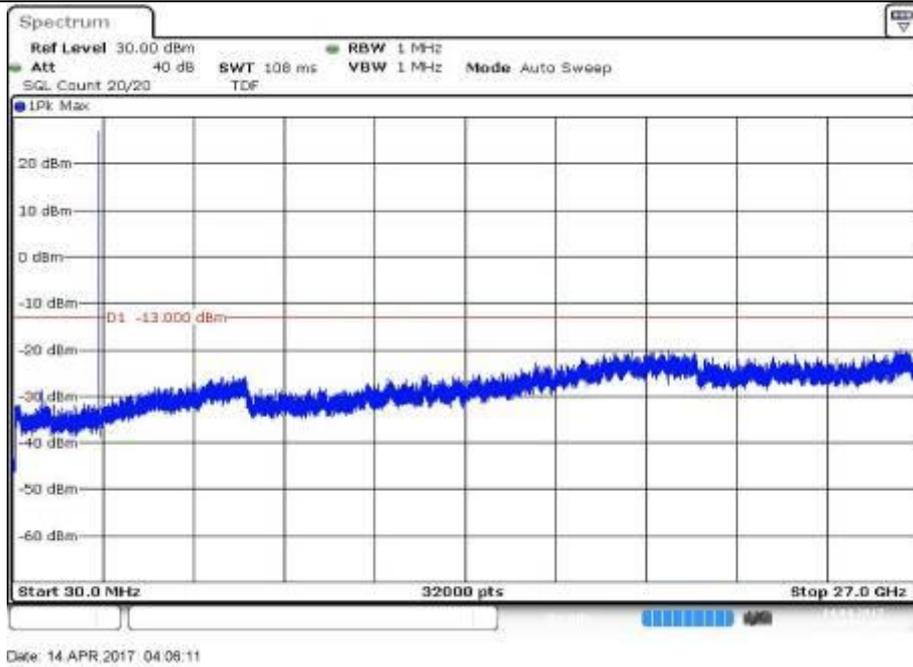


Fig.5

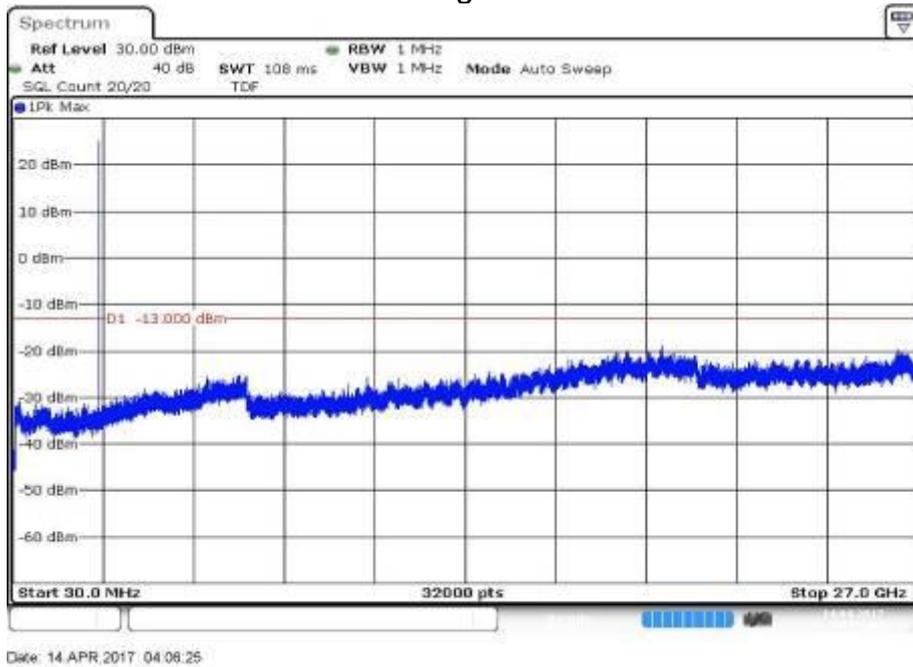


Fig.6

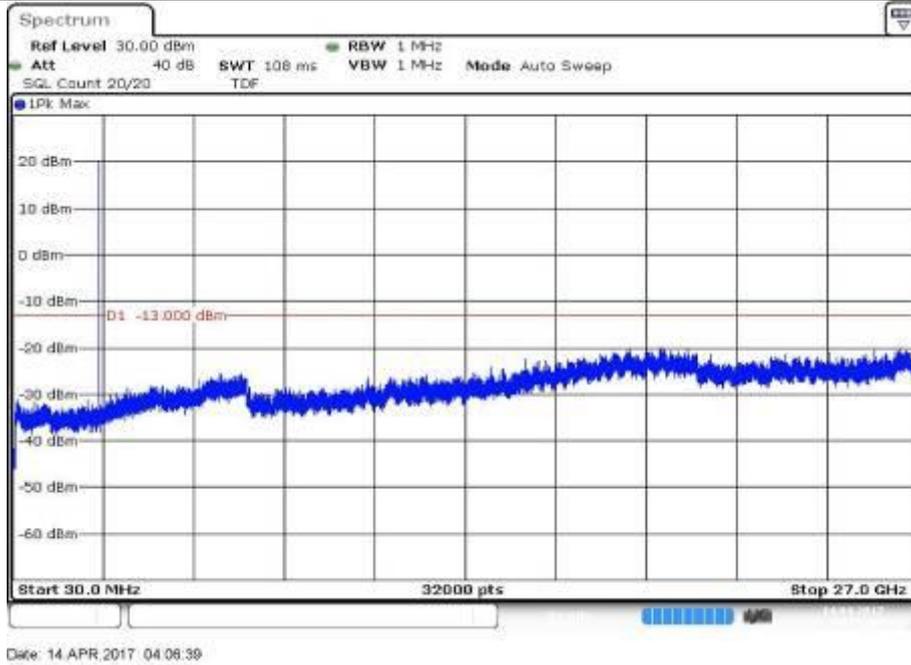


Fig.7

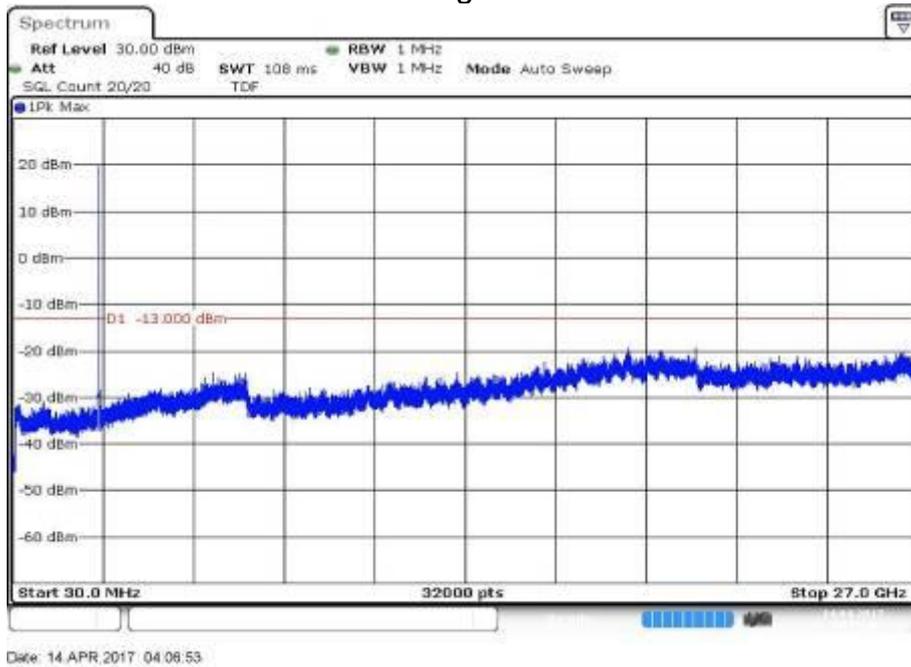


Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
41	2552.5	40215	15	1	0	Fig.1	Fig.5
				1	74	Fig.2	Fig.6
				38	18	Fig.3	Fig.7
				75	0	Fig.4	Fig.8

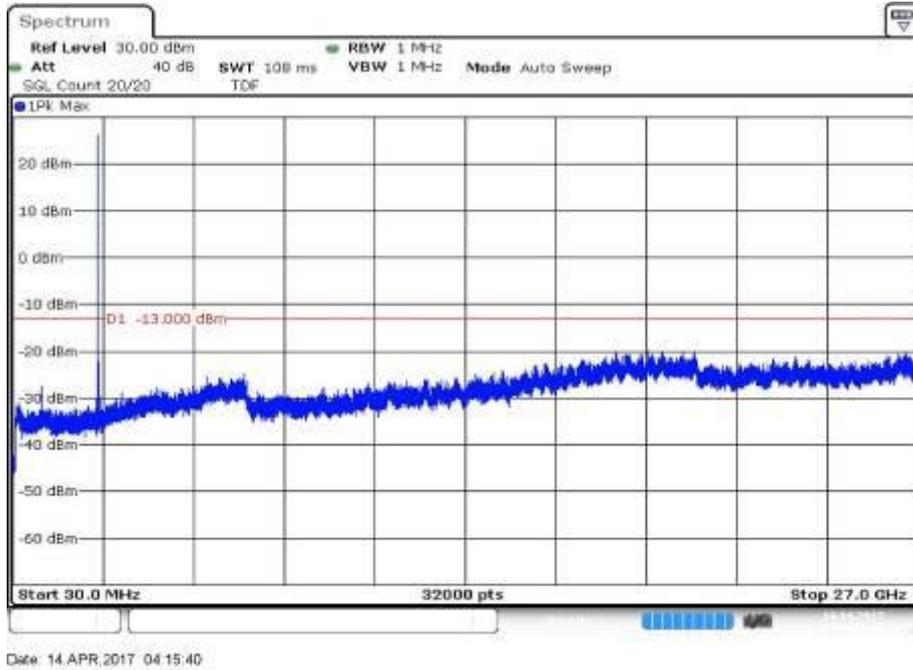


Fig.1

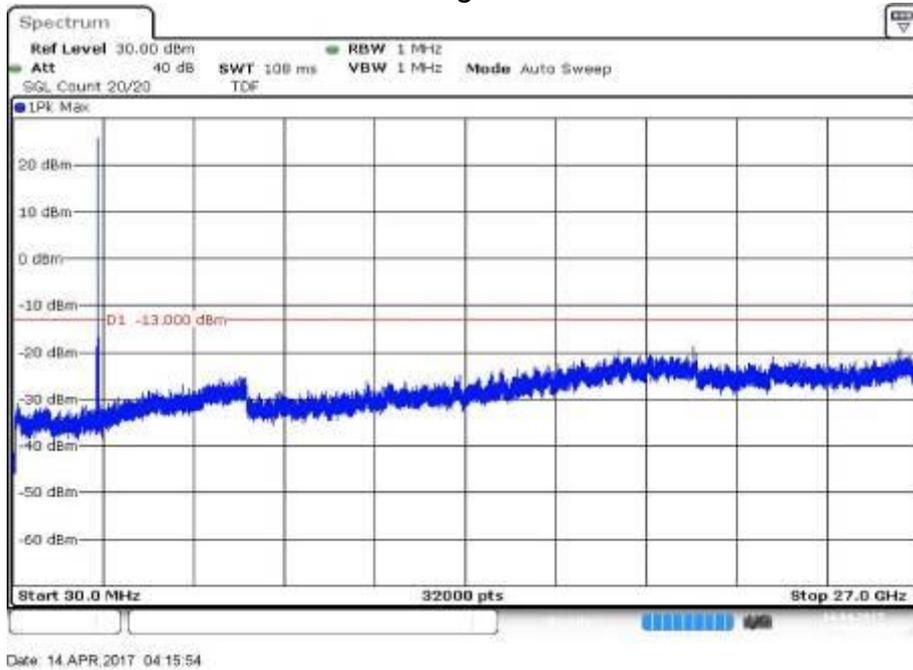


Fig.2

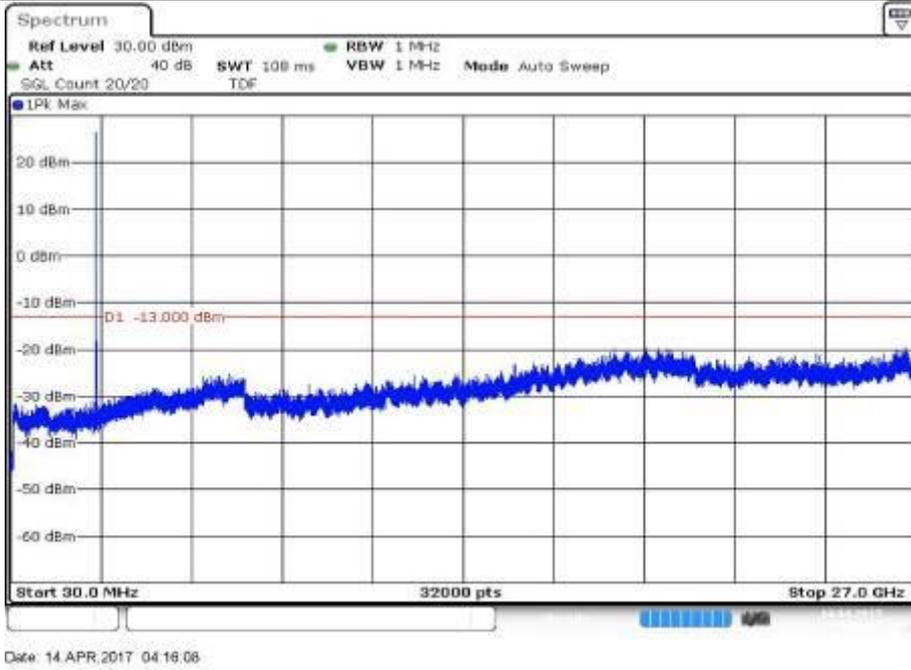


Fig.3

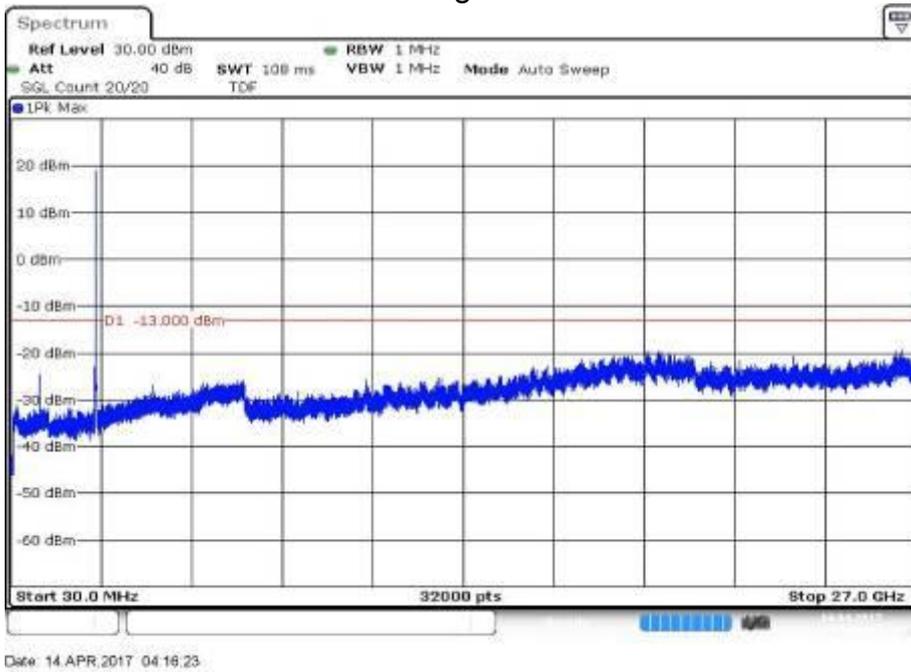


Fig.4

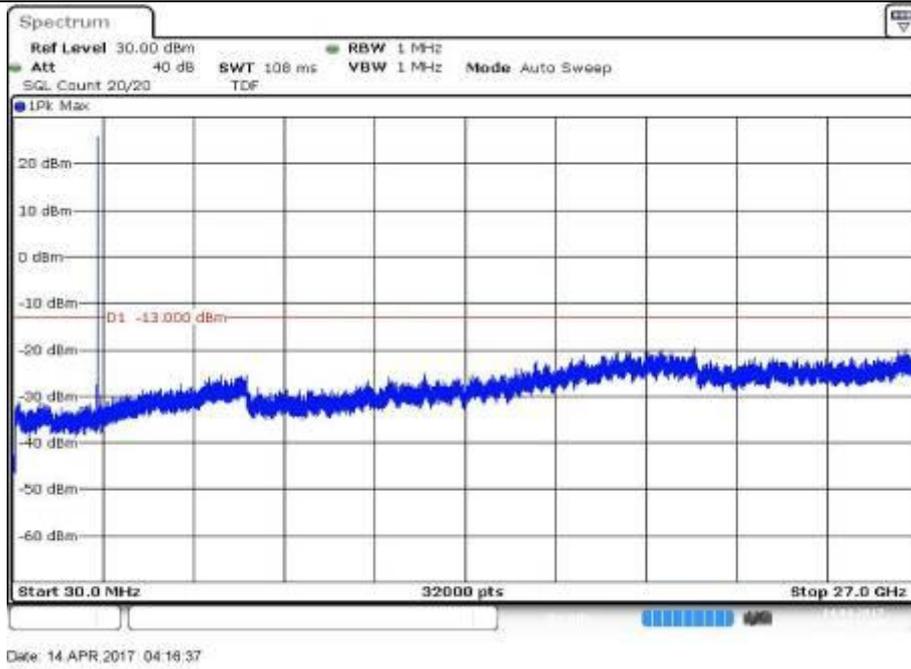


Fig.5

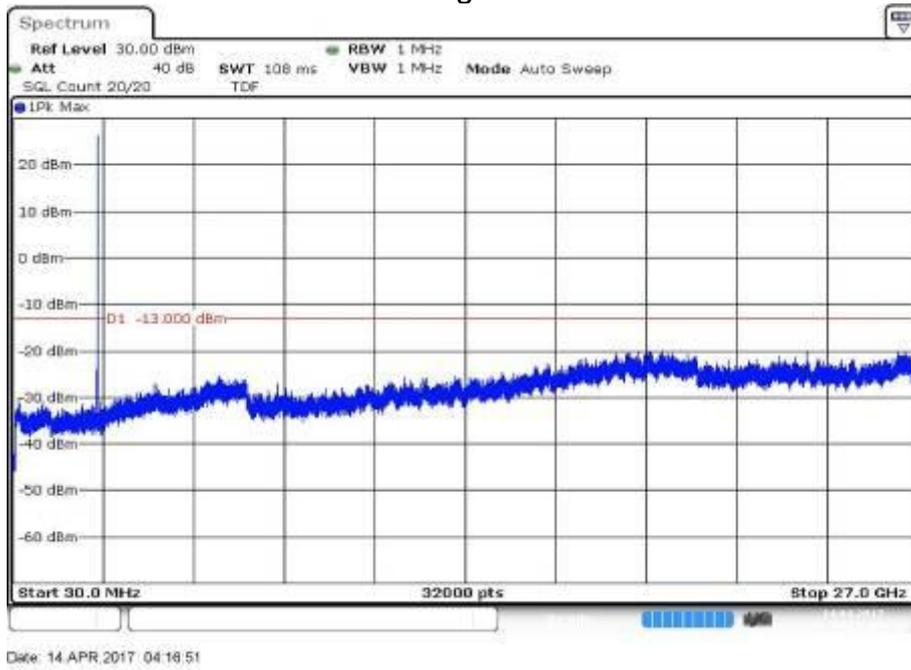


Fig.6

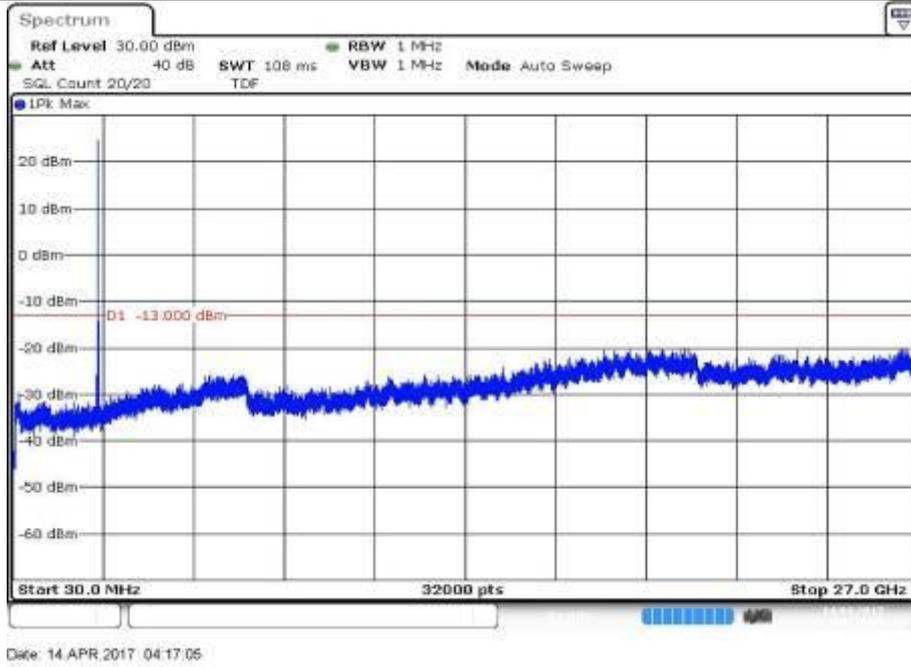


Fig.7

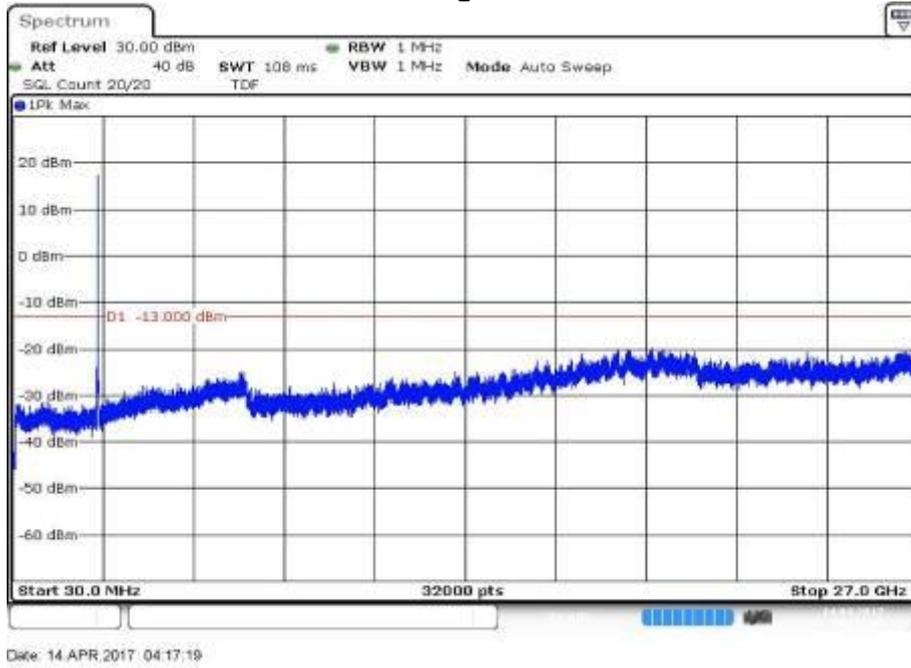
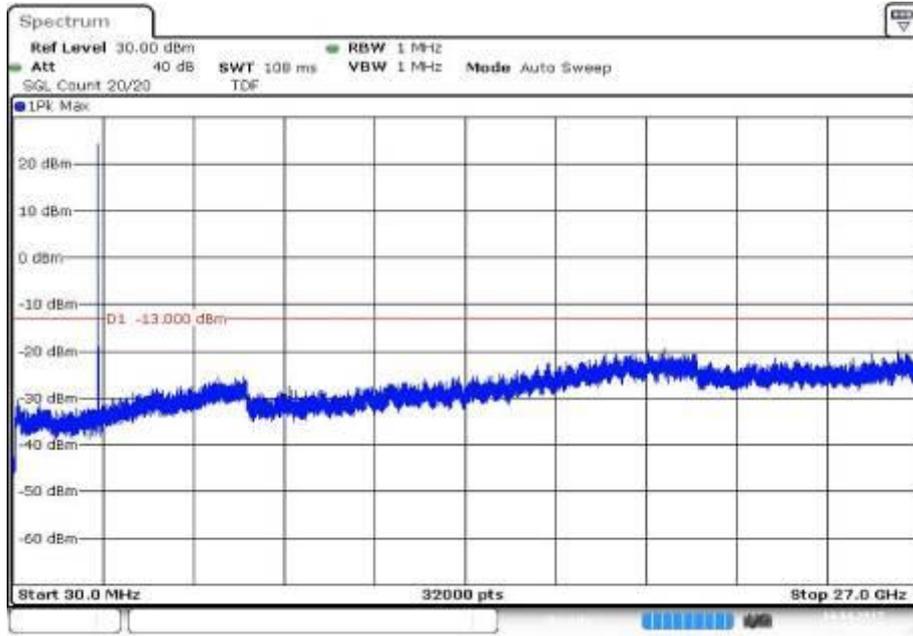


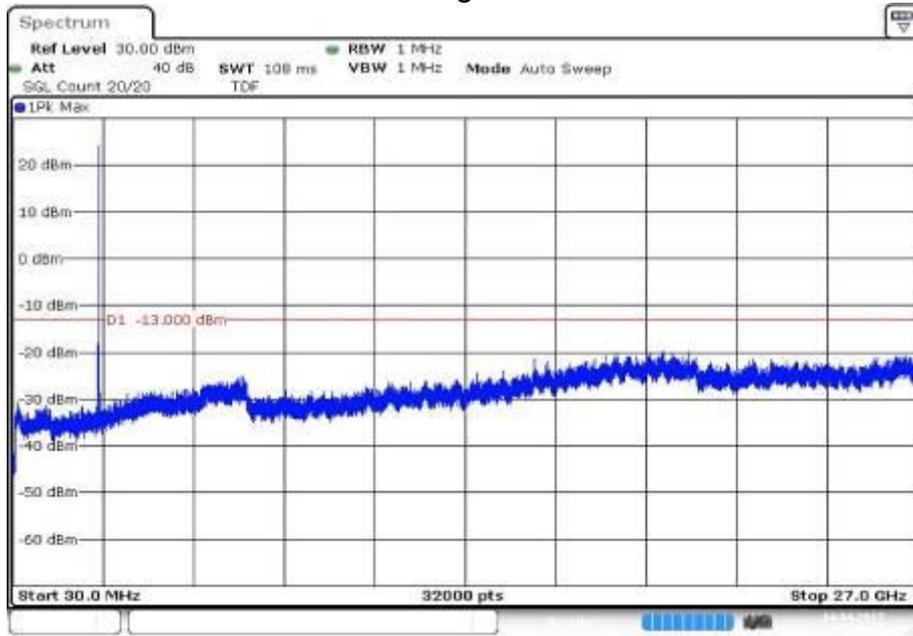
Fig.8

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
41	2570	40390	15	1	0	Fig.1	Fig.5
				1	74	Fig.2	Fig.6
				38	18	Fig.3	Fig.7
				75	0	Fig.4	Fig.8



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Fig.1



Date: 14 APR 2017 04:26:42

Fig.2

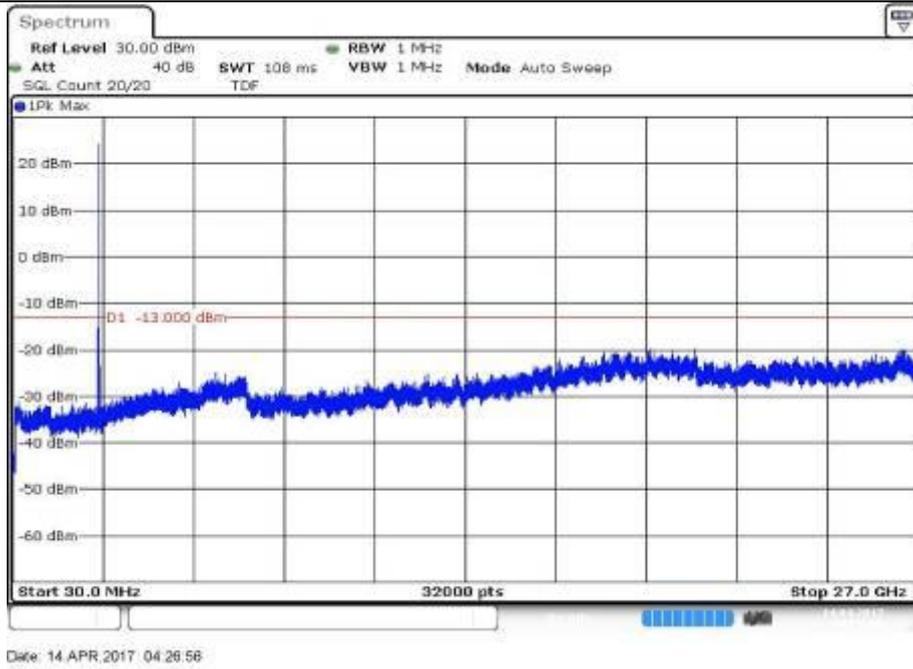


Fig.3

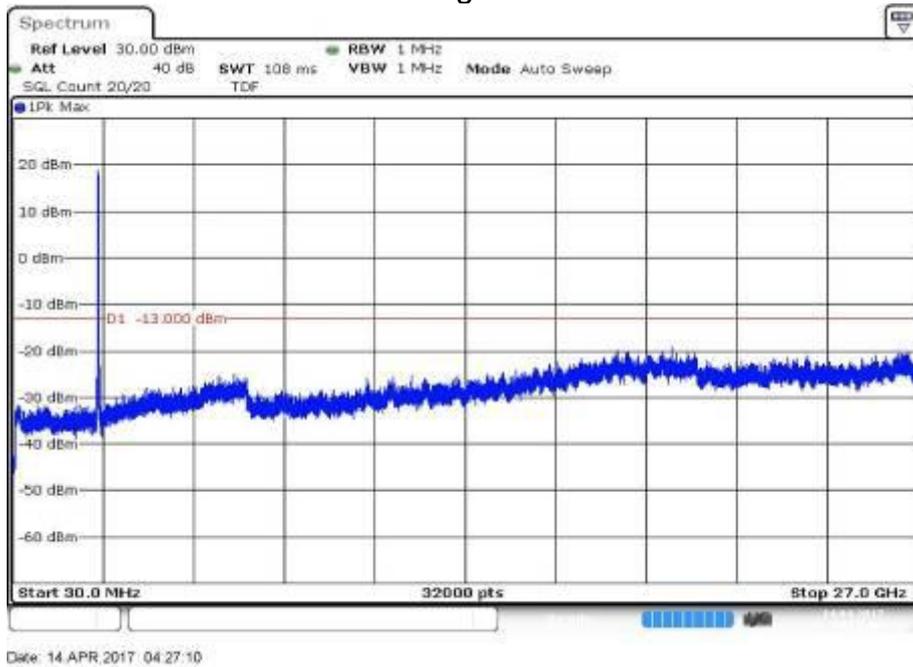


Fig.4

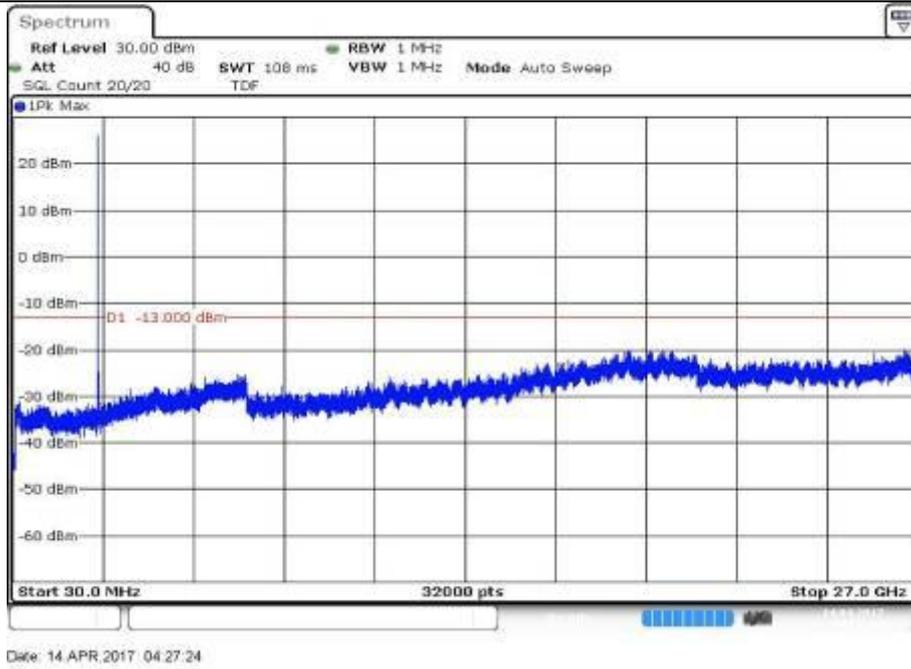


Fig.5

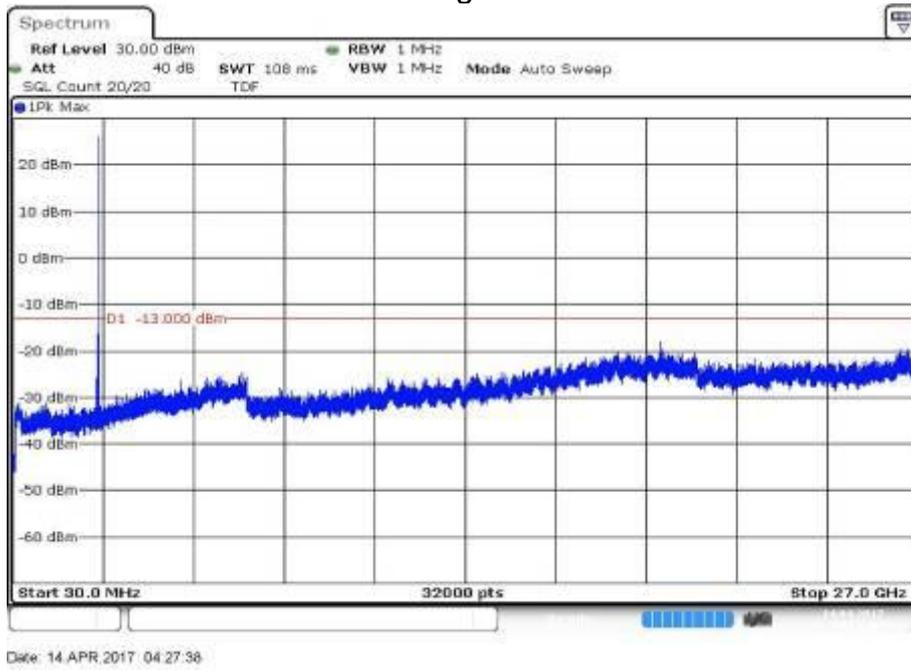


Fig.6

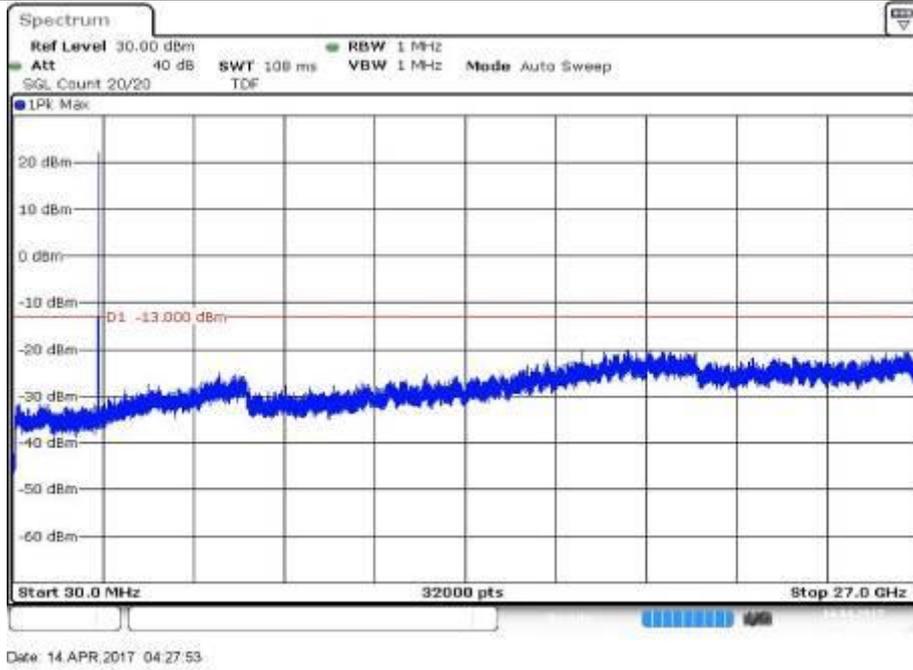


Fig.7

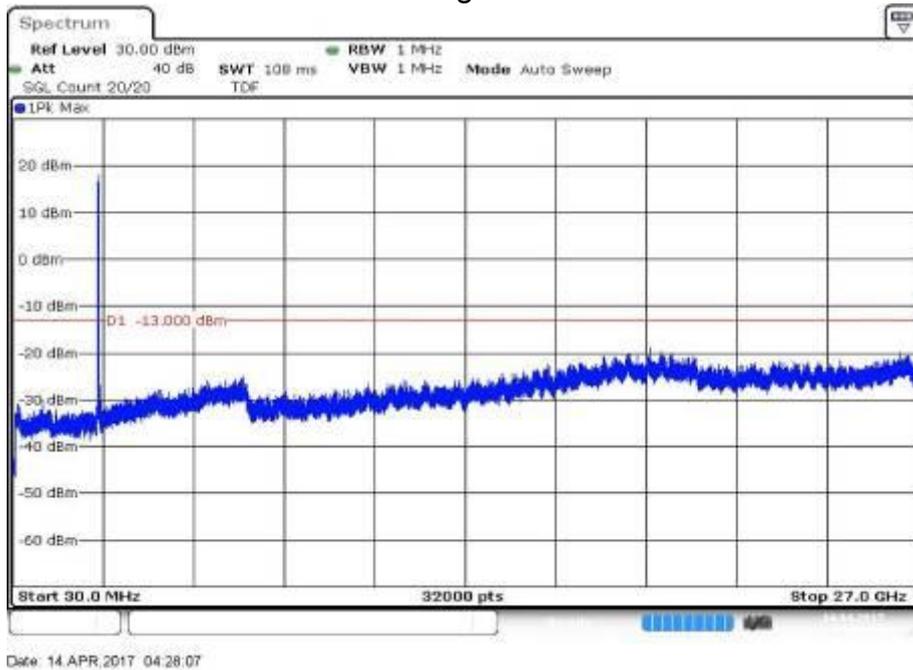


Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
41	2587.5	40565	15	1	0	Fig.1	Fig.5
				1	74	Fig.2	Fig.6
				38	18	Fig.3	Fig.7
				75	0	Fig.4	Fig.8

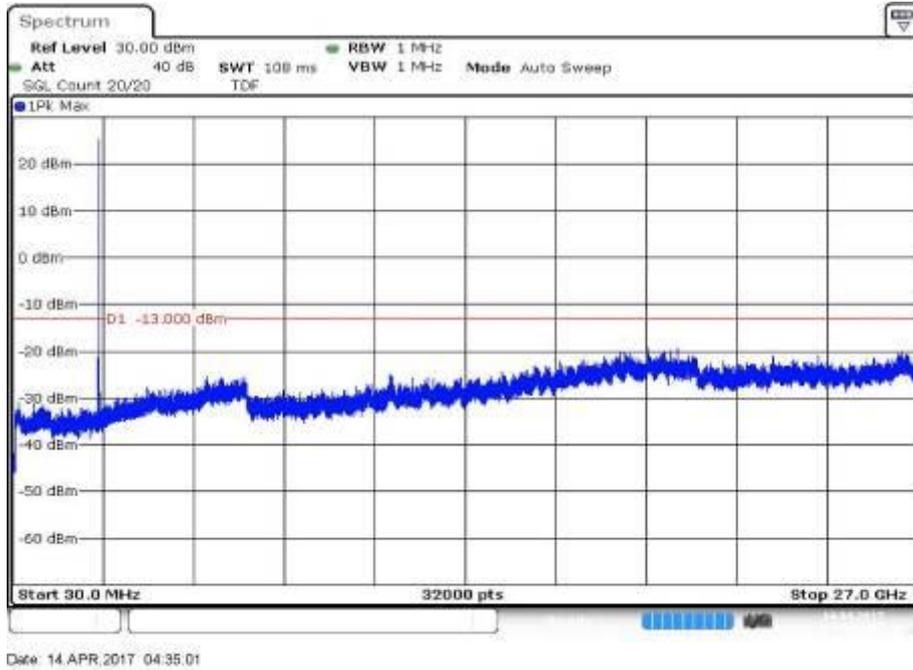


Fig.1

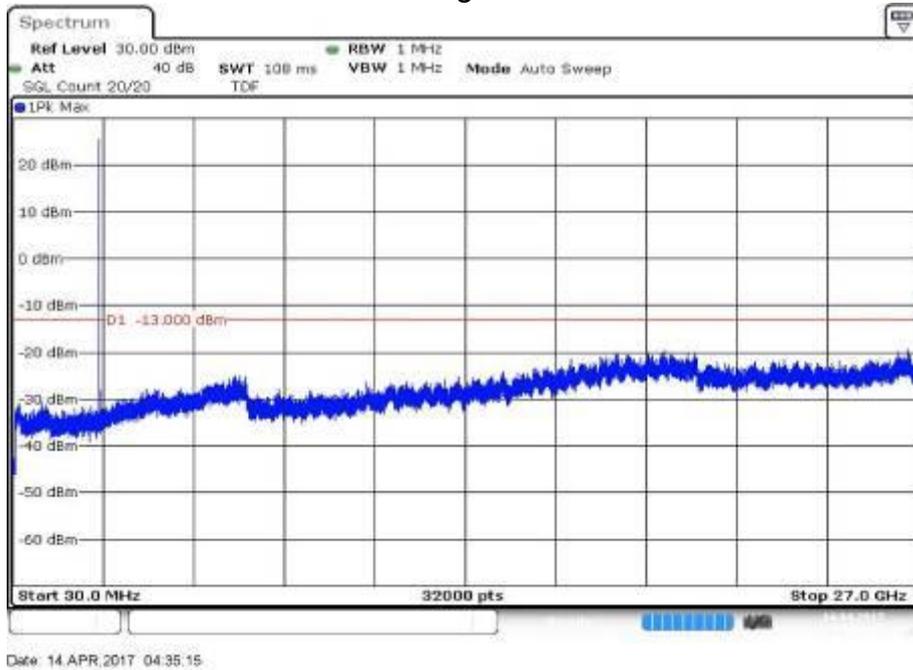


Fig.2

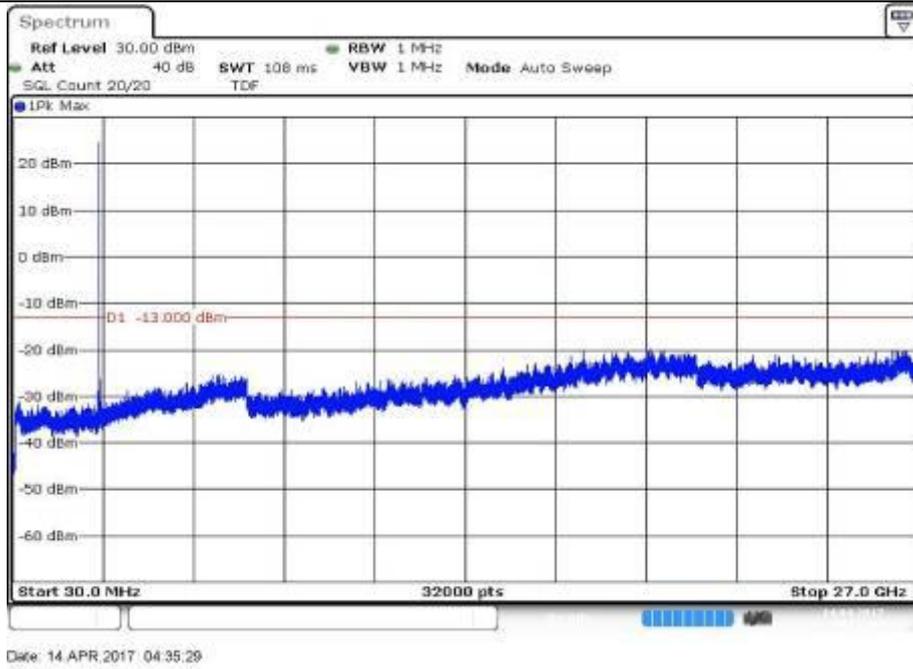


Fig.3

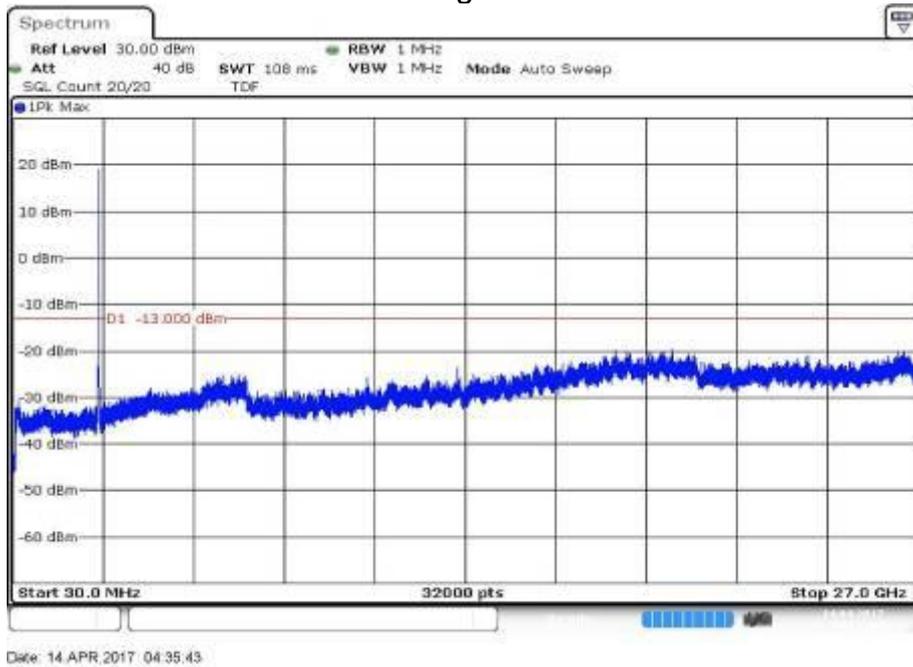


Fig.4

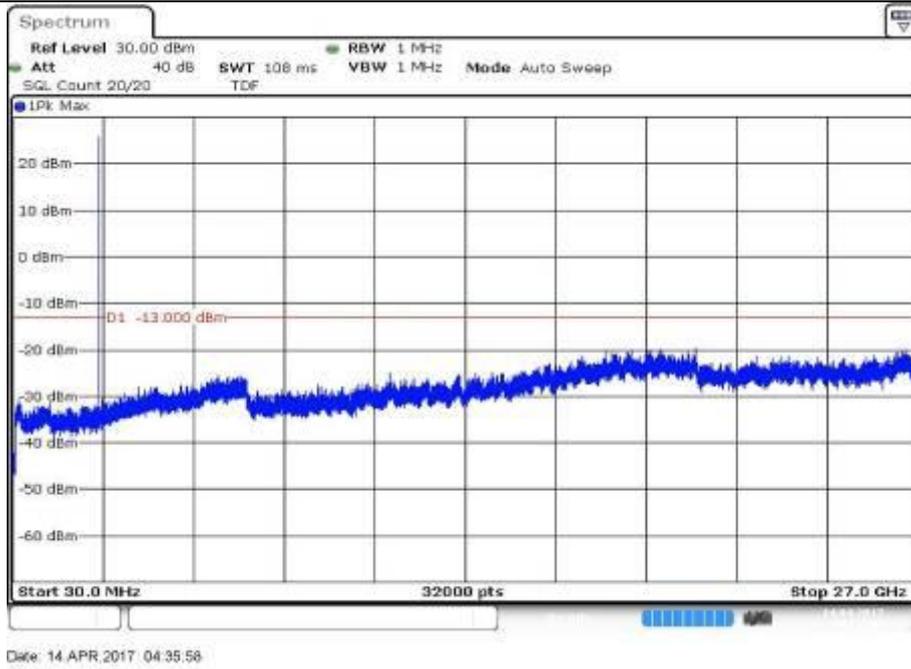


Fig.5

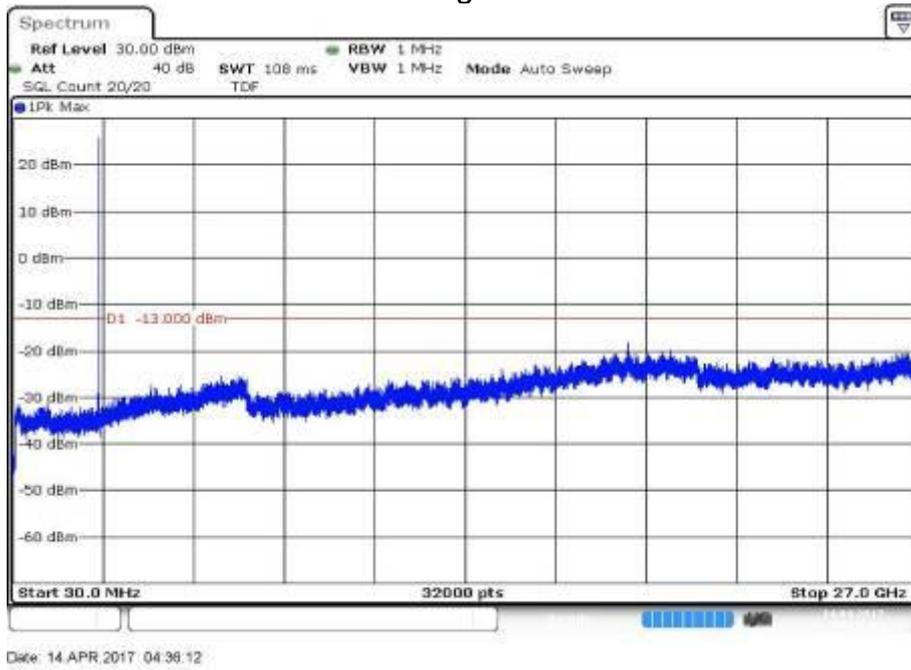


Fig.6

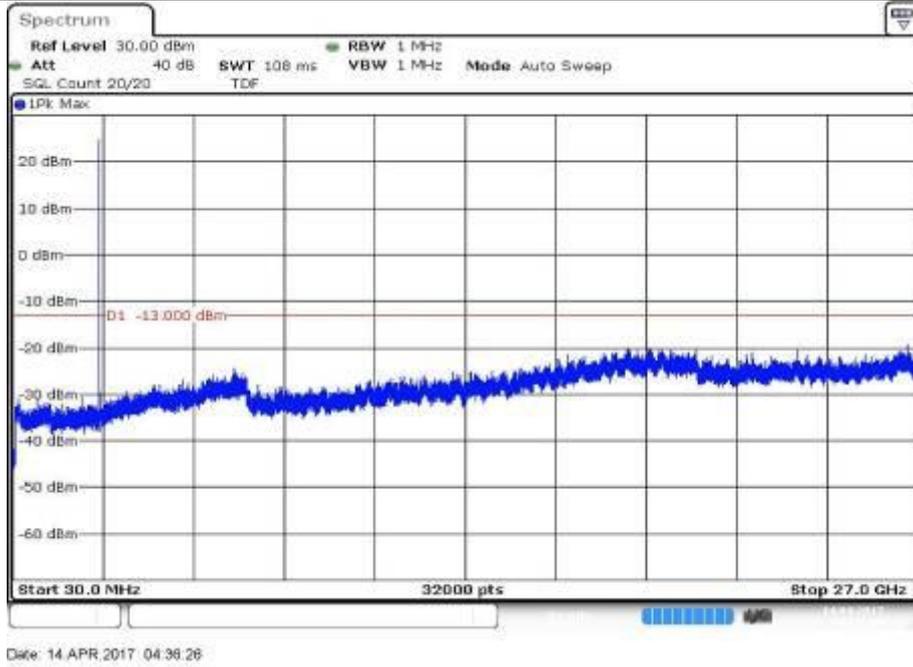


Fig.7

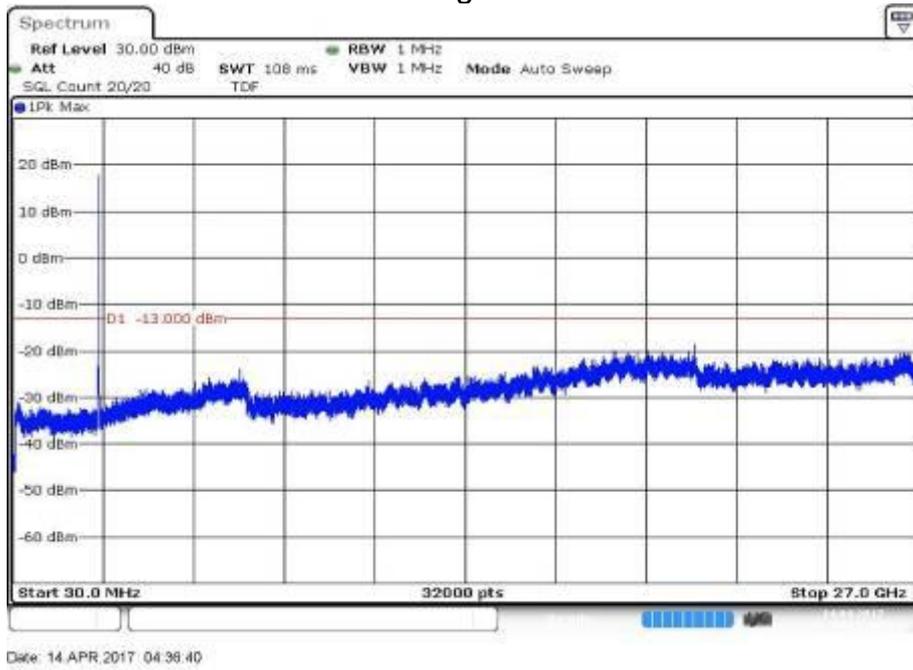


Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
41	2555	40240	20	1	0	Fig.1	Fig.5
				1	99	Fig.2	Fig.6
				50	25	Fig.3	Fig.7
				100	0	Fig.4	Fig.8

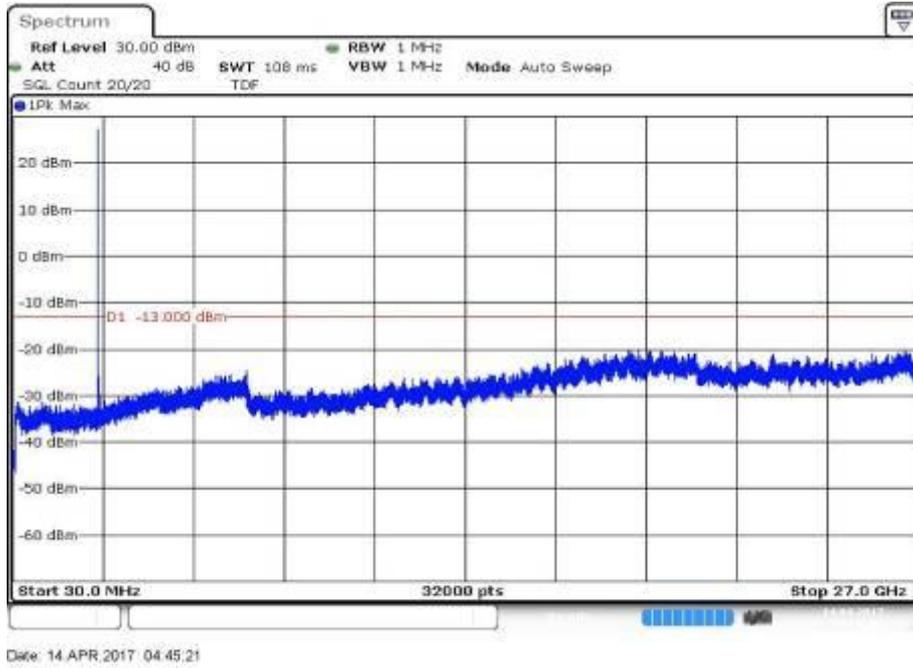


Fig.1

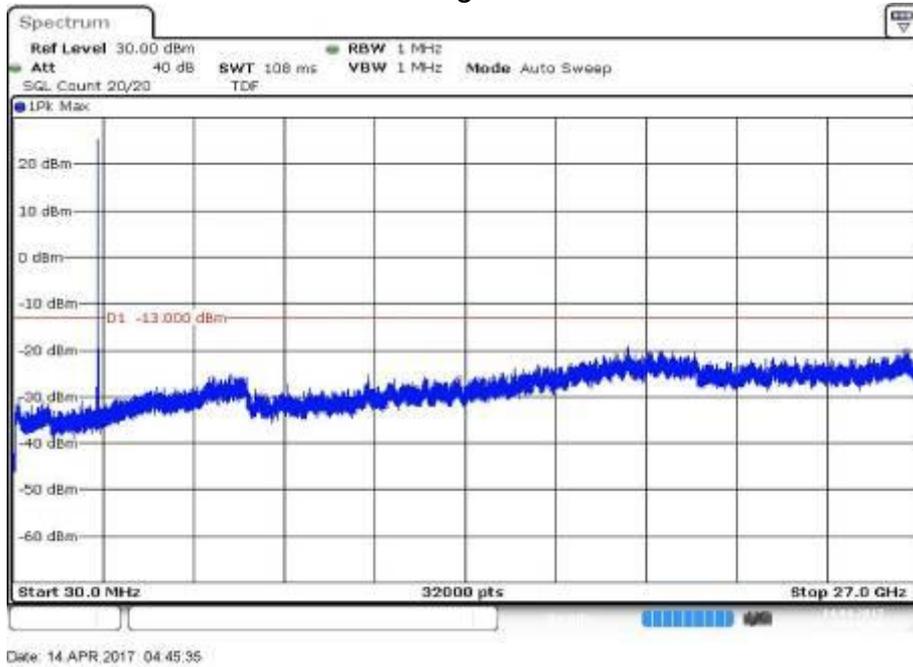


Fig.2

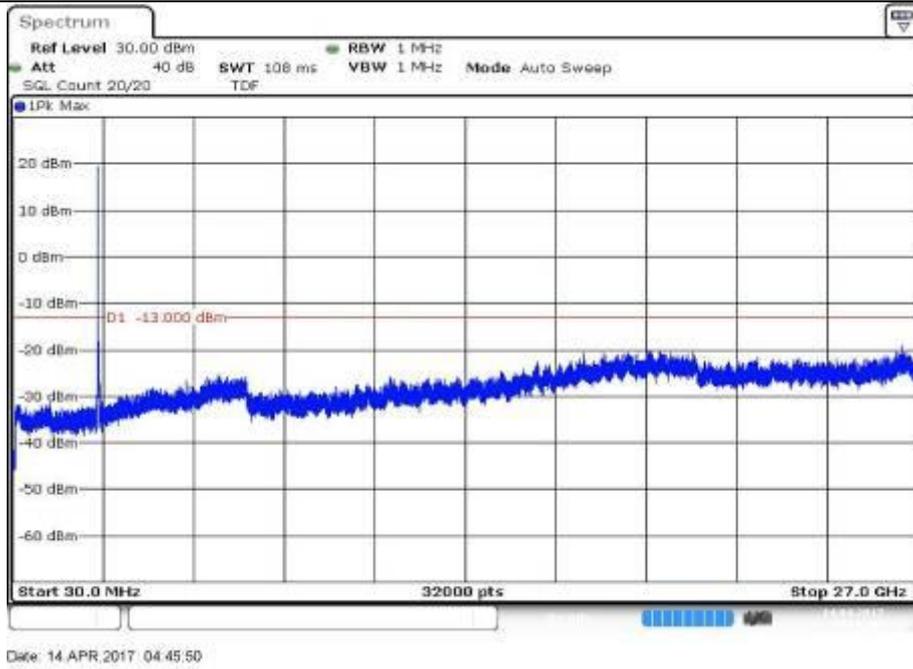


Fig.3

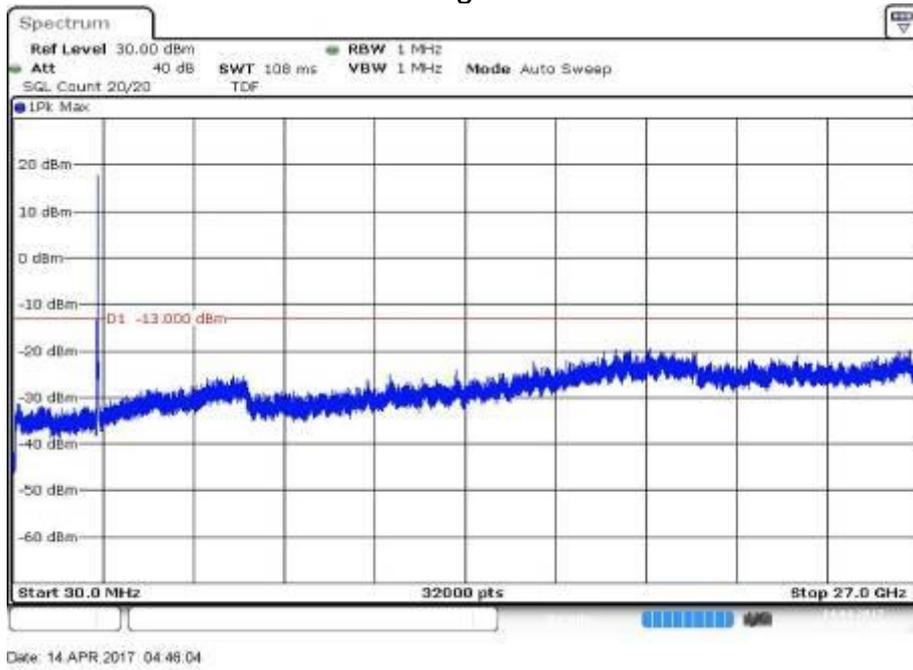


Fig.4

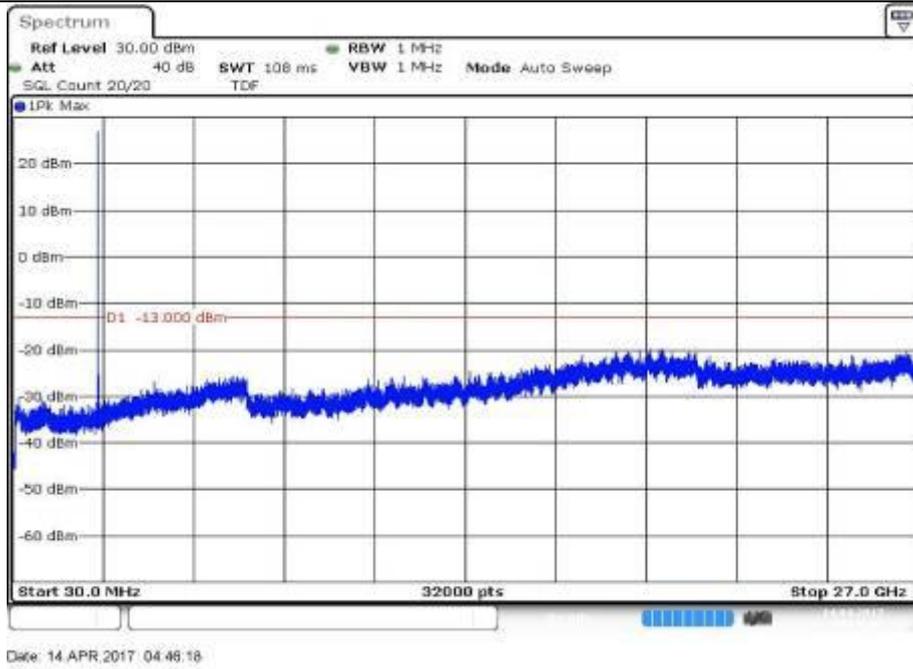


Fig.5

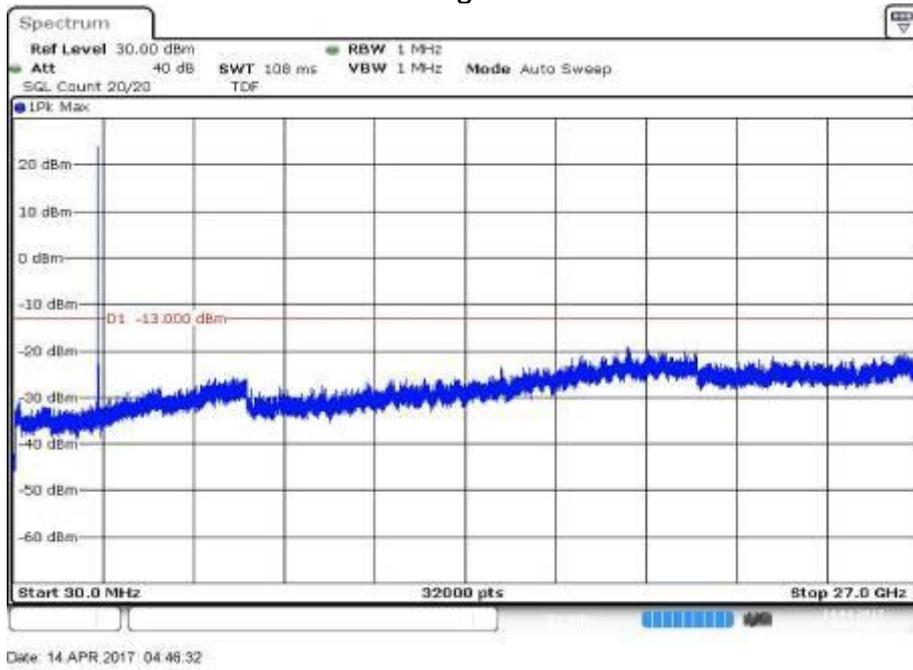


Fig.6

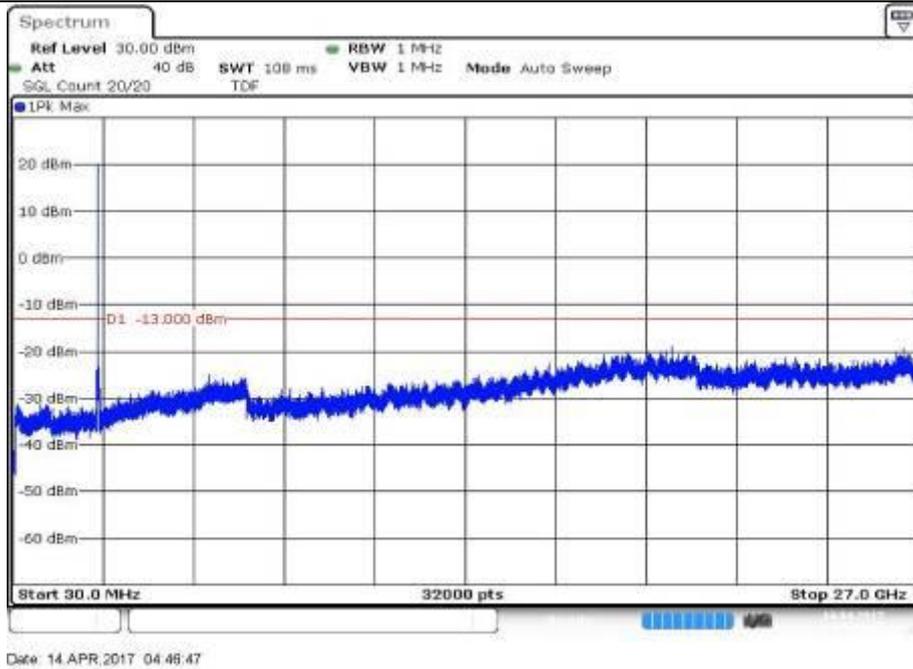


Fig.7

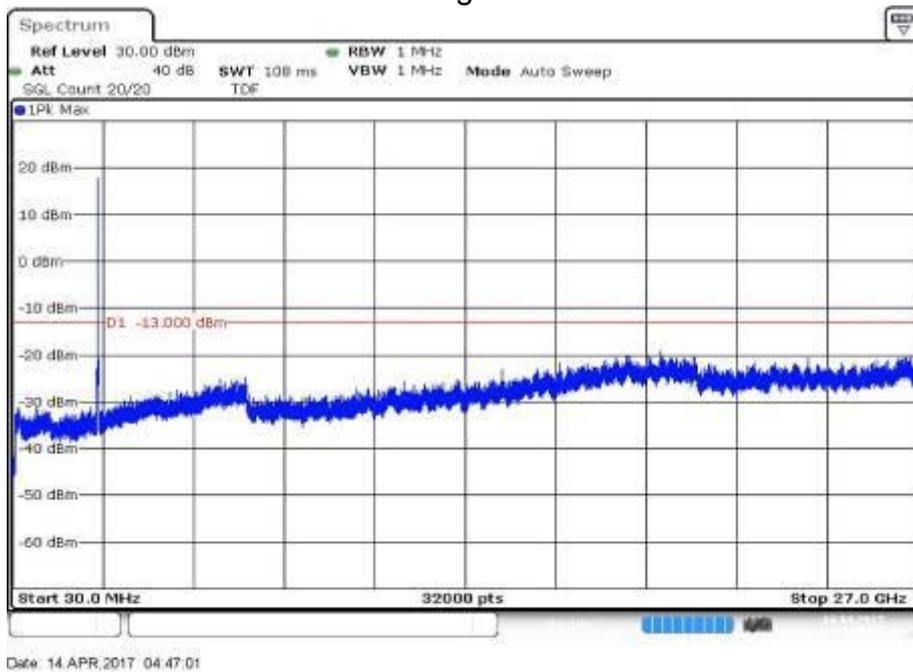
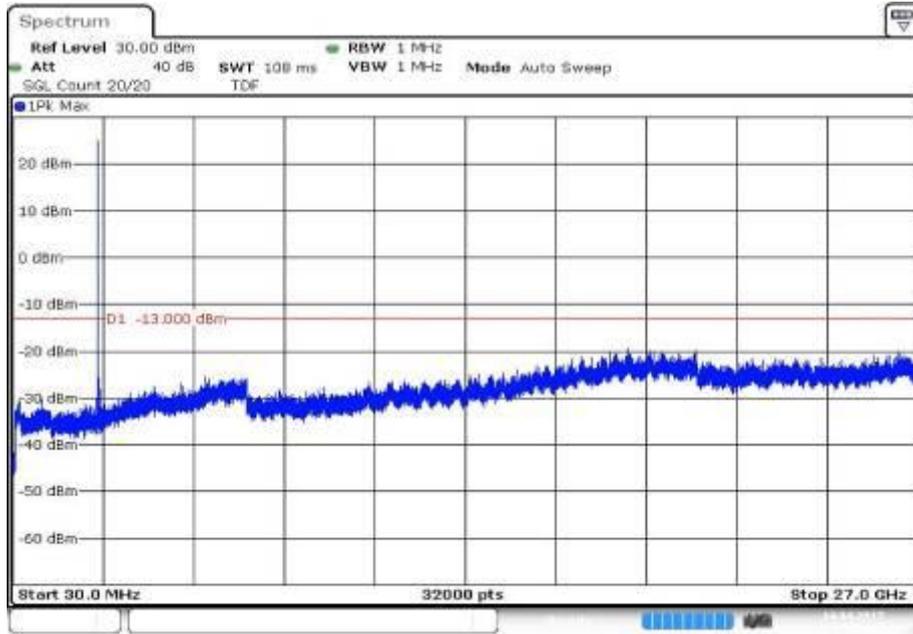


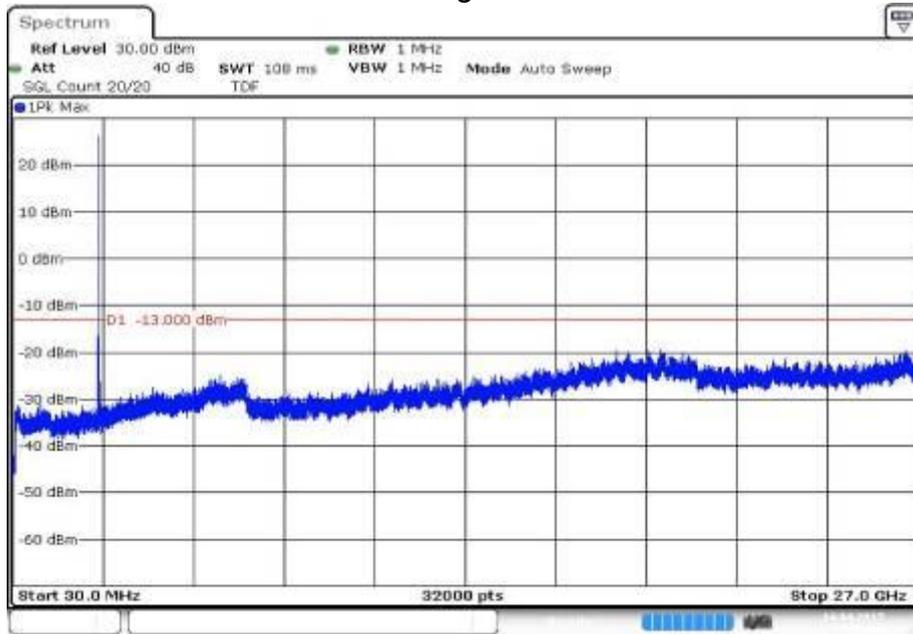
Fig.8

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
41	2570	40390	20	1	0	Fig.1	Fig.5
				1	99	Fig.2	Fig.6
				50	25	Fig.3	Fig.7
				100	0	Fig.4	Fig.8



Date: 14 APR 2017 04:56:21

Fig.1



Date: 14 APR 2017 04:56:36

Fig.2

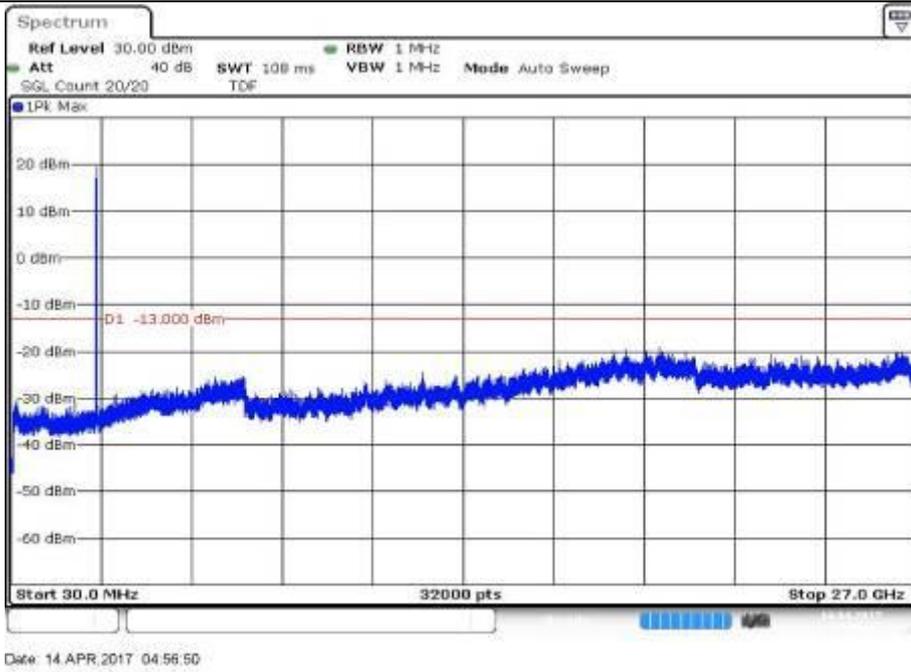


Fig.3

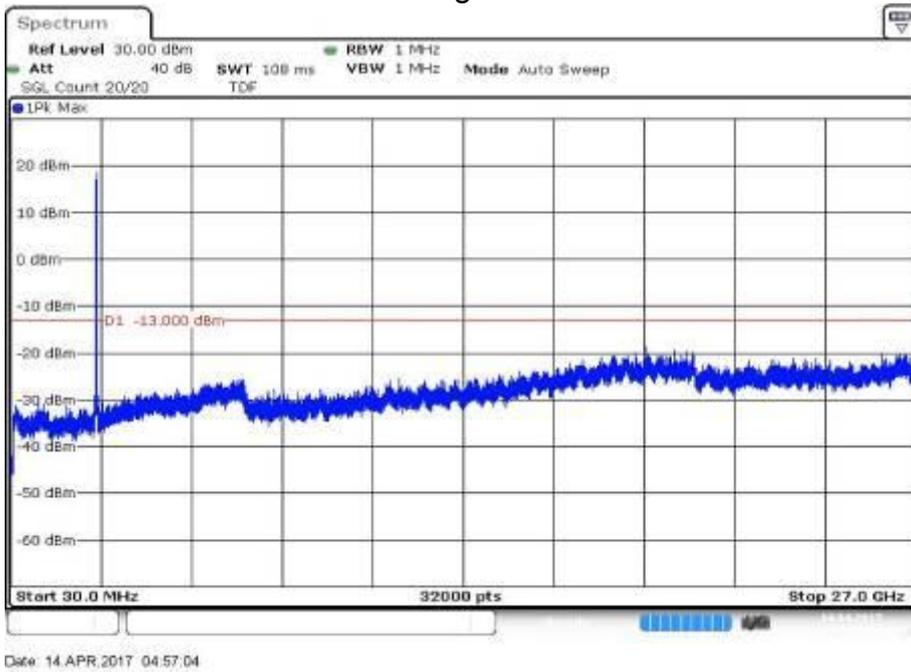


Fig.4

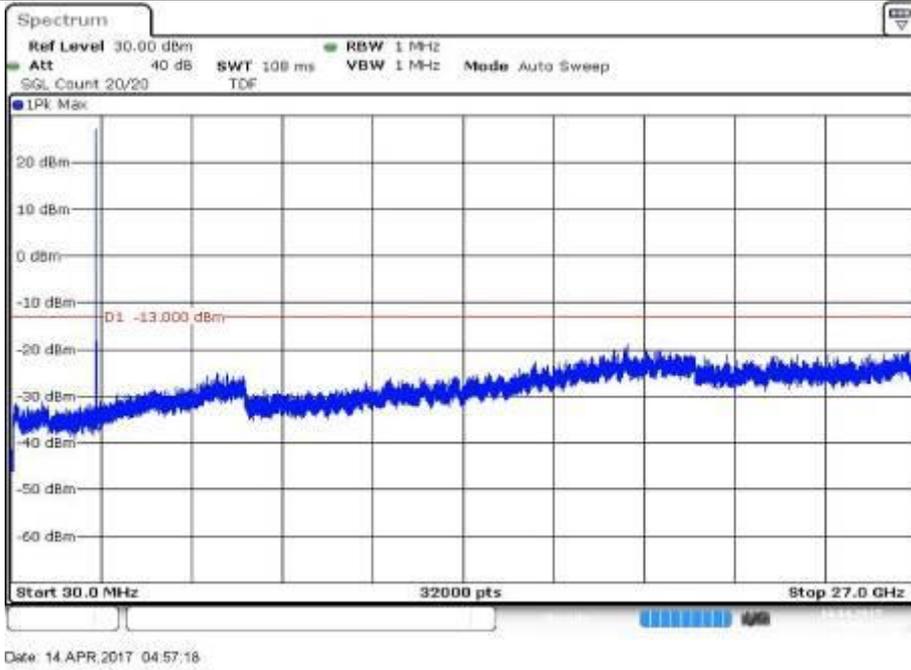


Fig.5

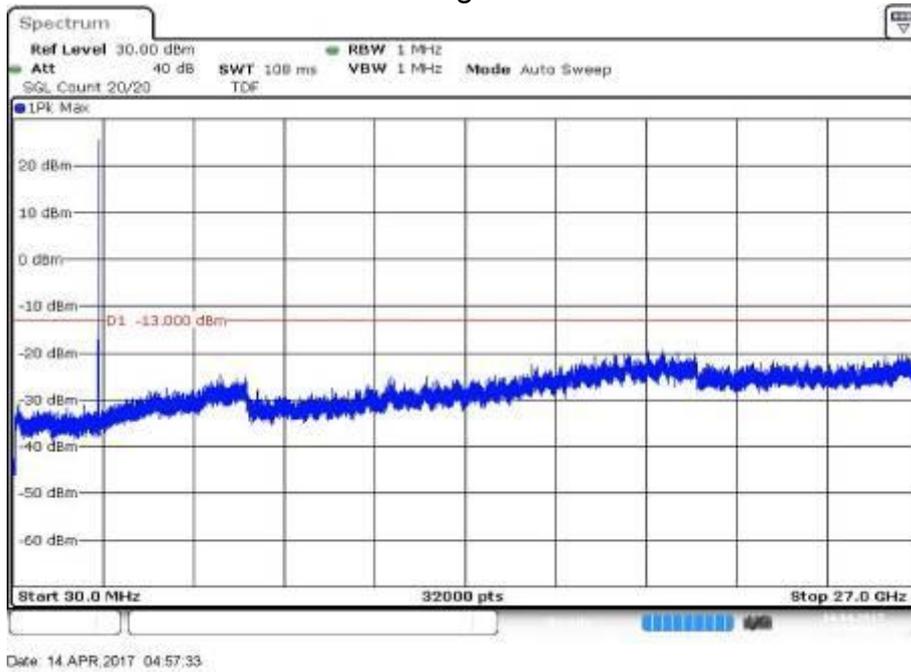
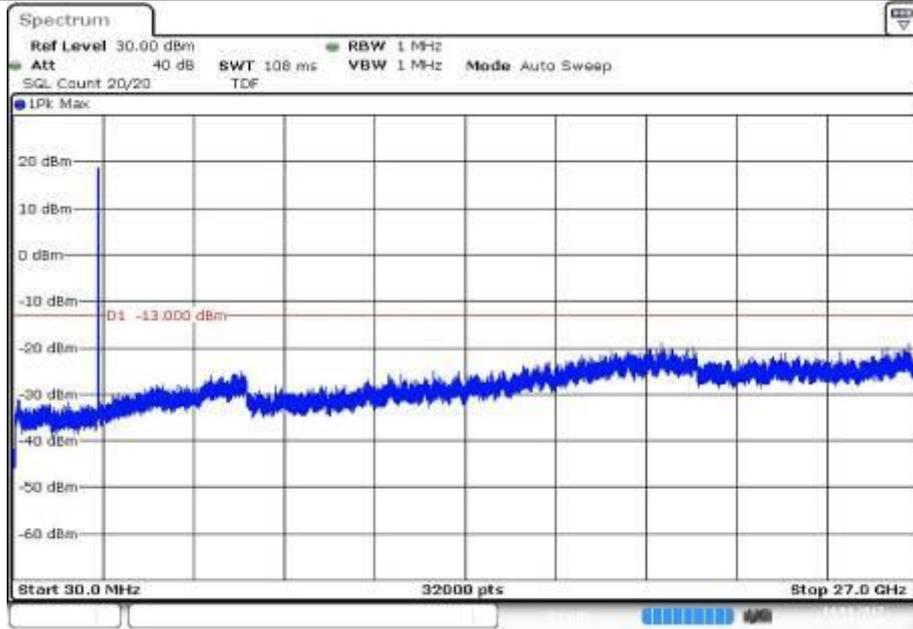
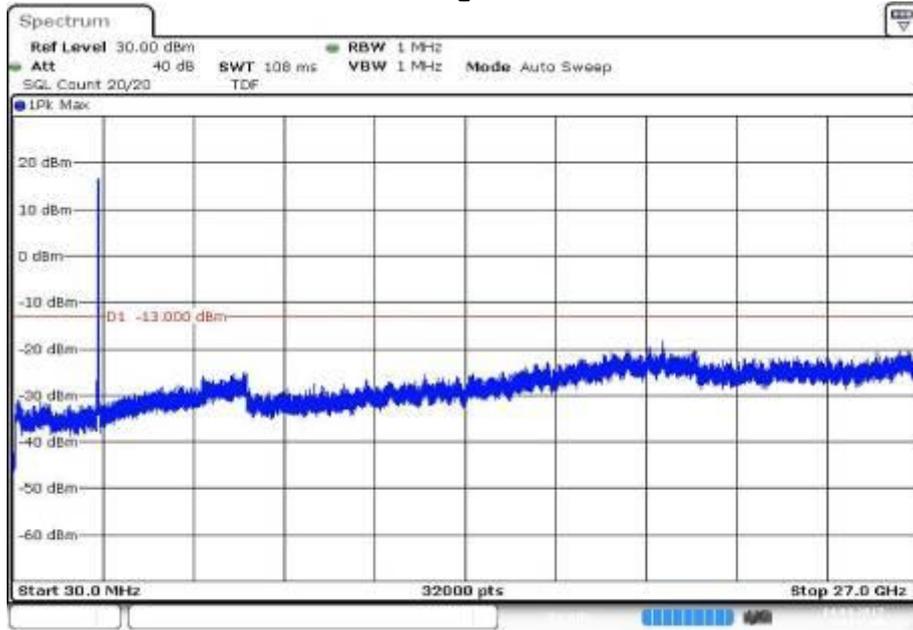


Fig.6



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Fig.7



Date: 14 APR 2017 04:58:01

Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
41	2585	40540	20	1	0	Fig.1	Fig.5
				1	99	Fig.2	Fig.6
				50	25	Fig.3	Fig.7
				100	0	Fig.4	Fig.8

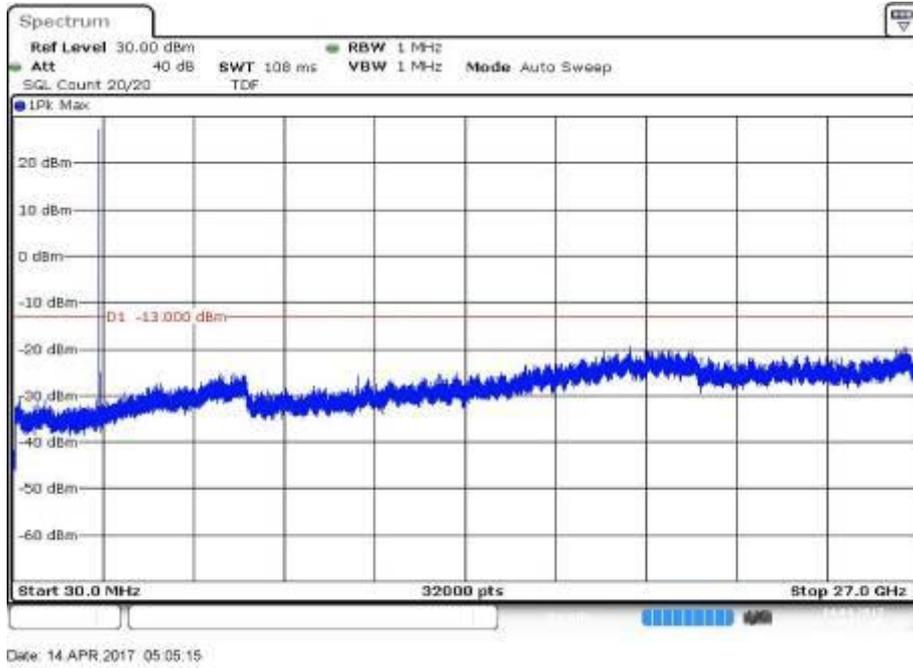


Fig.1

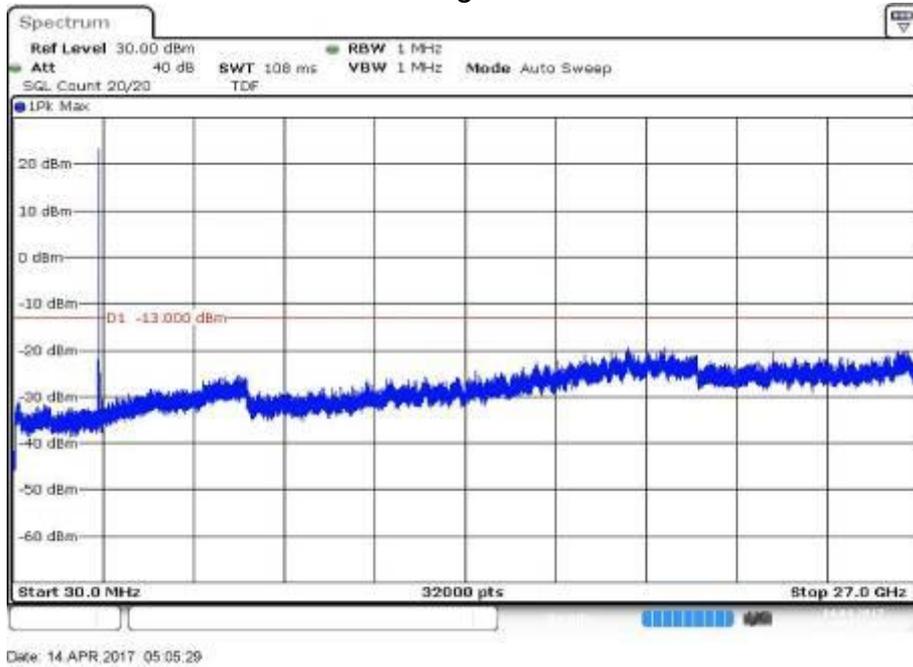


Fig.2

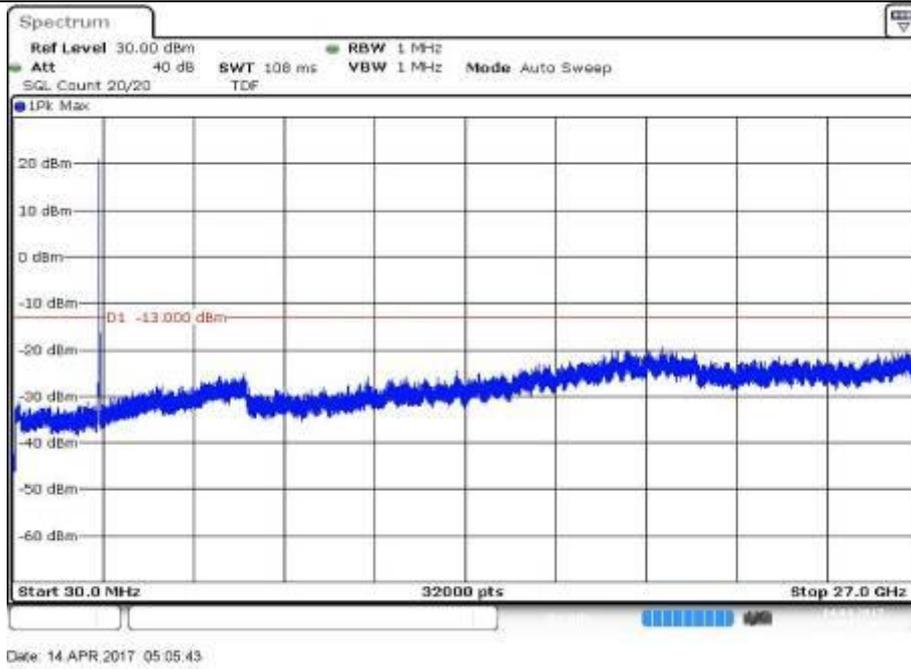


Fig.3

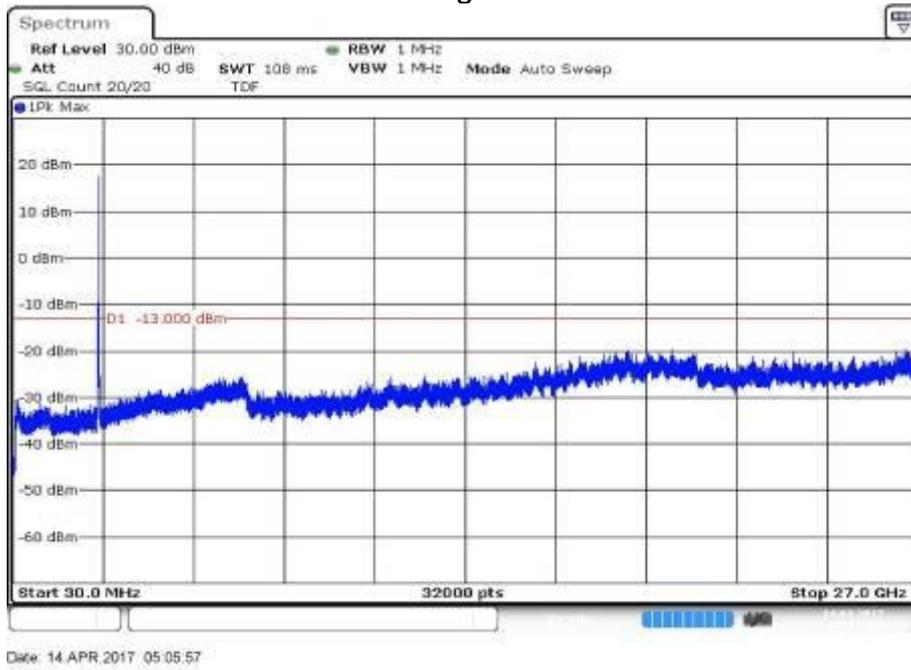


Fig.4

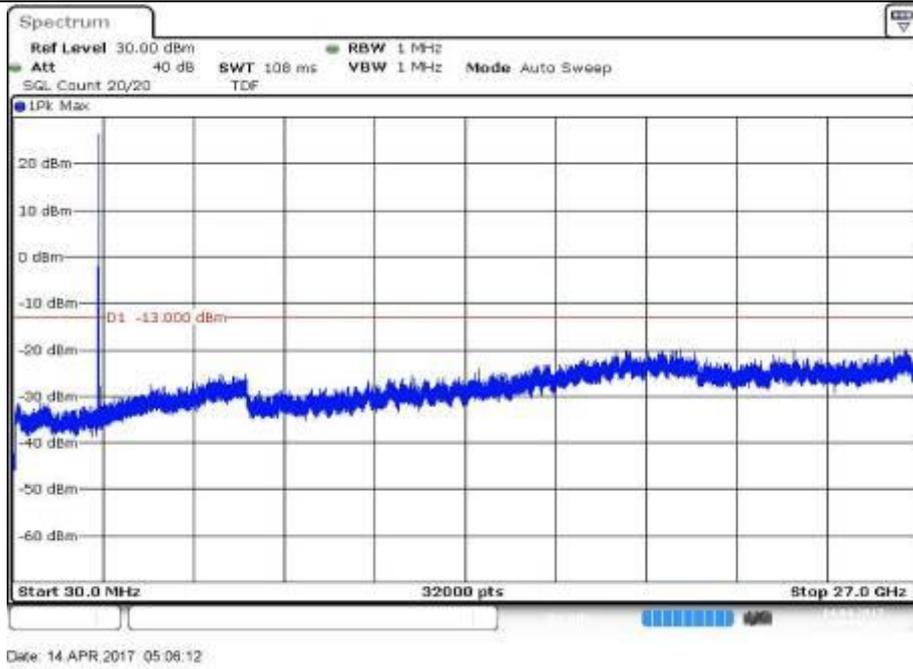


Fig.5

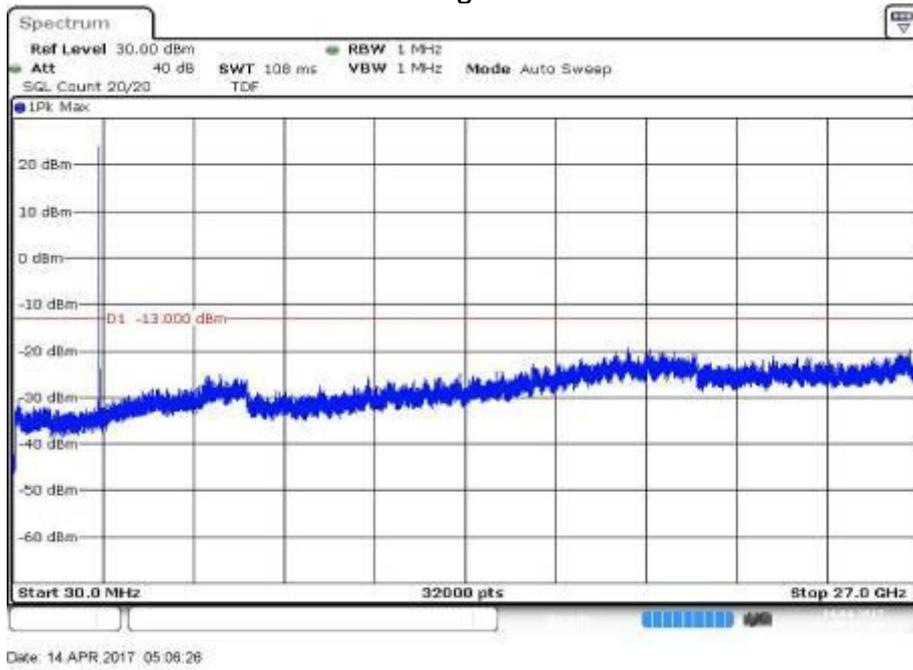


Fig.6

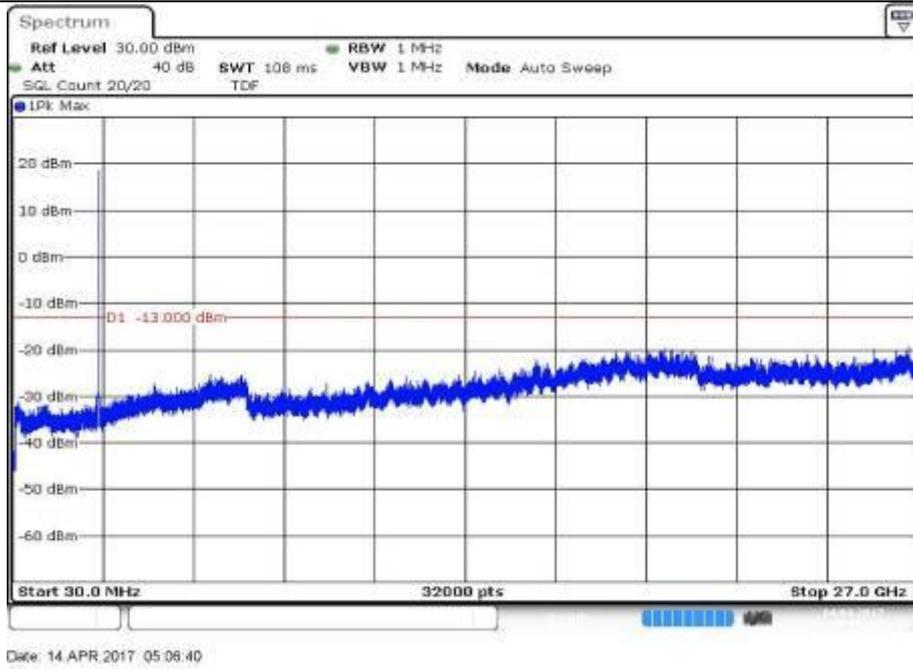


Fig.7

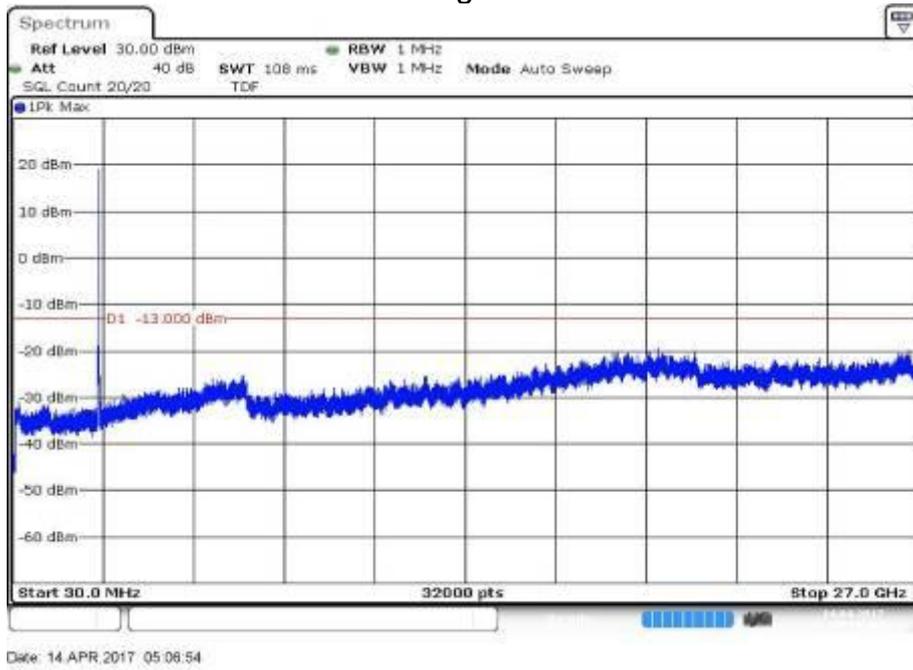


Fig.8

**6Band Edges Compliance-FCC Part2.1051 27.53/22.53(m)**  
Test result

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band EdgesPlot	
						QPSK	16-QAM
41	2547.5	40165	5	1	0	Fig.1	Fig.5
				1	24	Fig.2	Fig.6
				12	6	Fig.3	Fig.7
				25	0	Fig.4	Fig.8

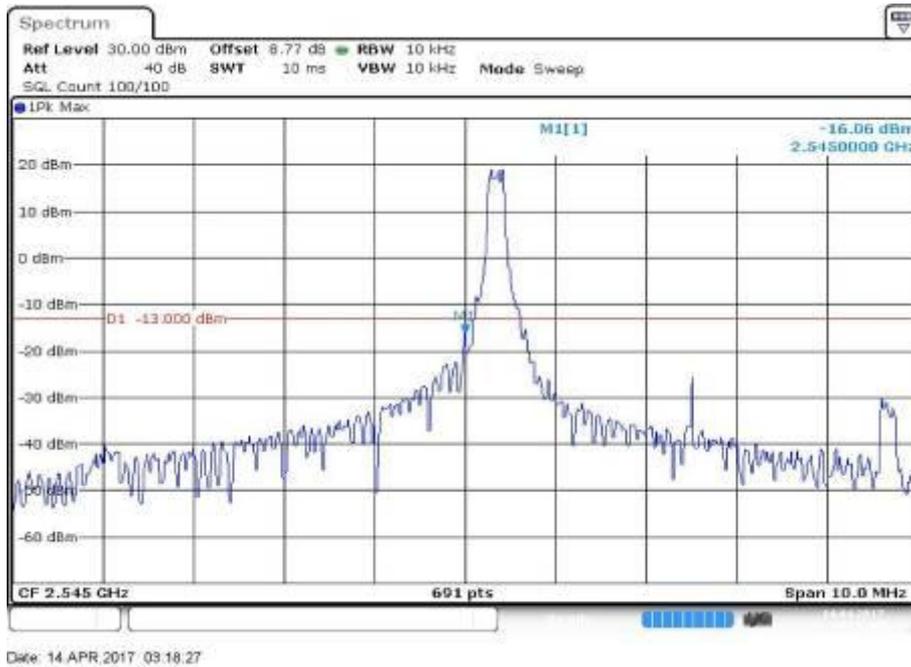


Fig.1

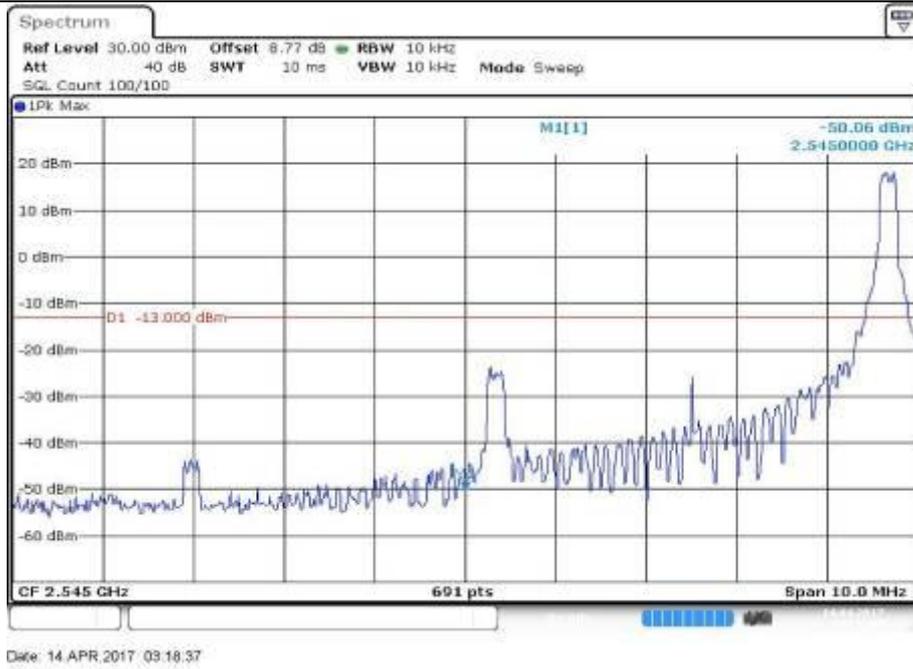


Fig.2

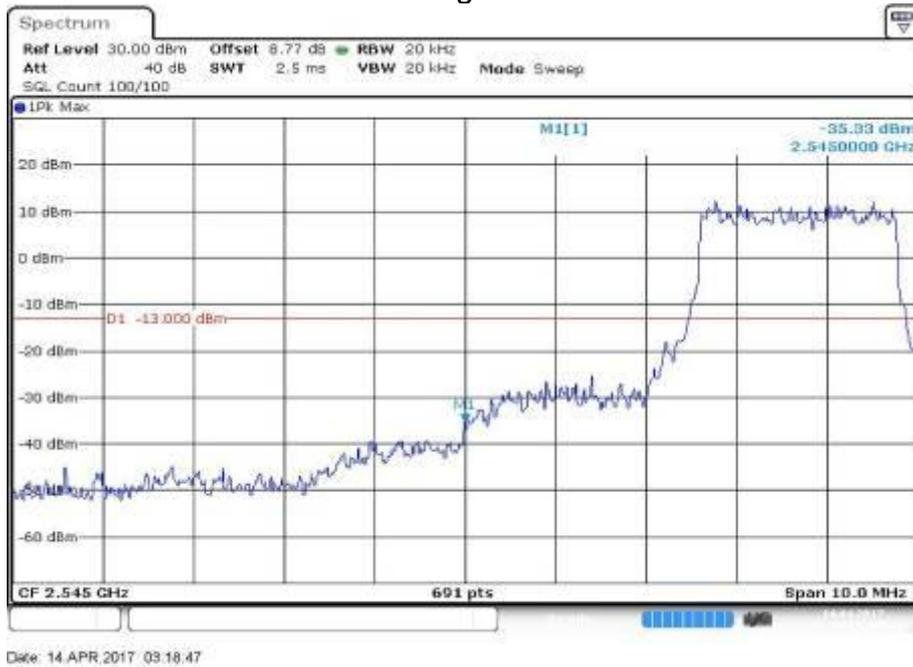


Fig.3

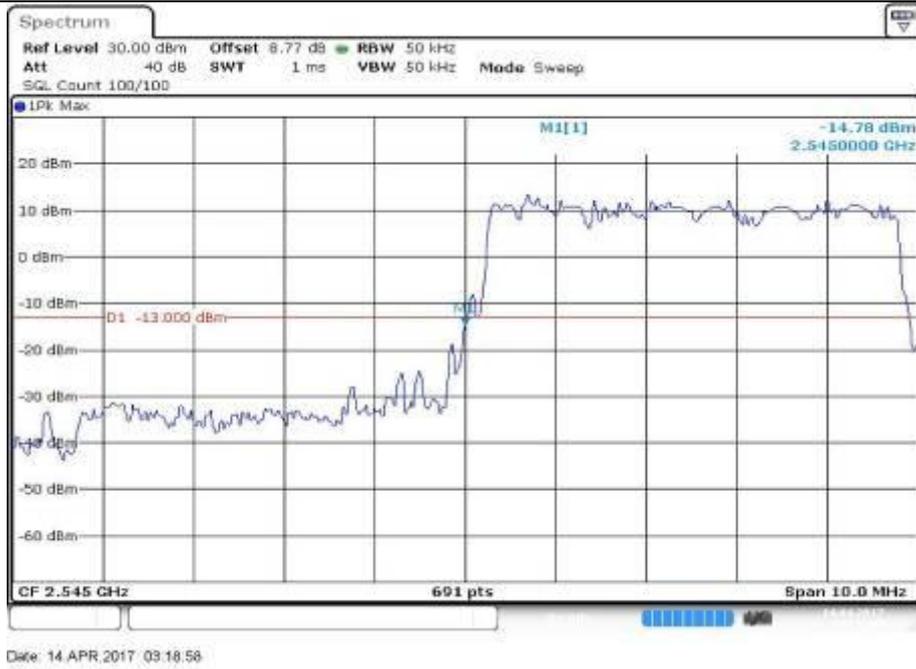


Fig.4

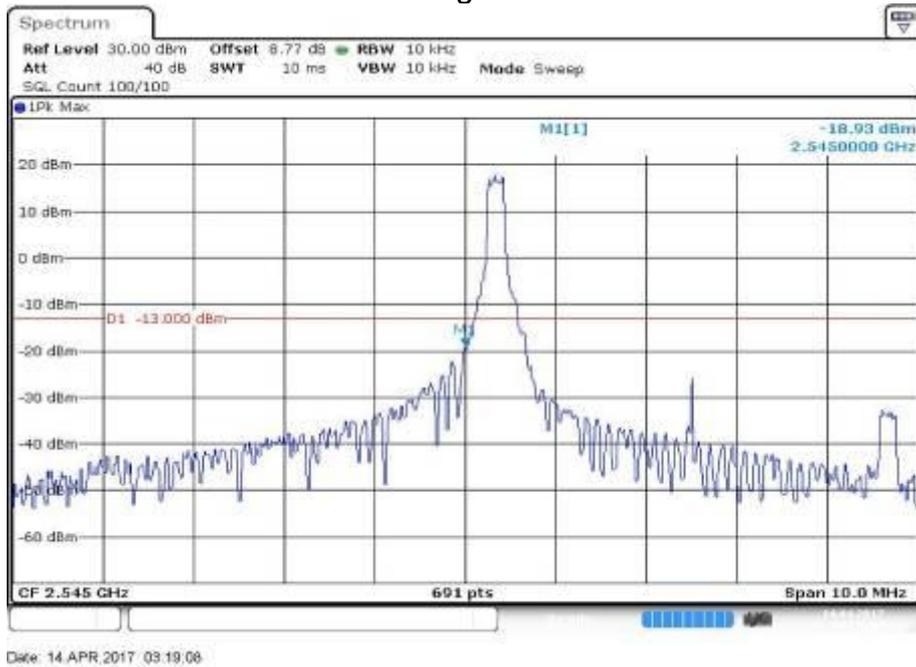


Fig.5

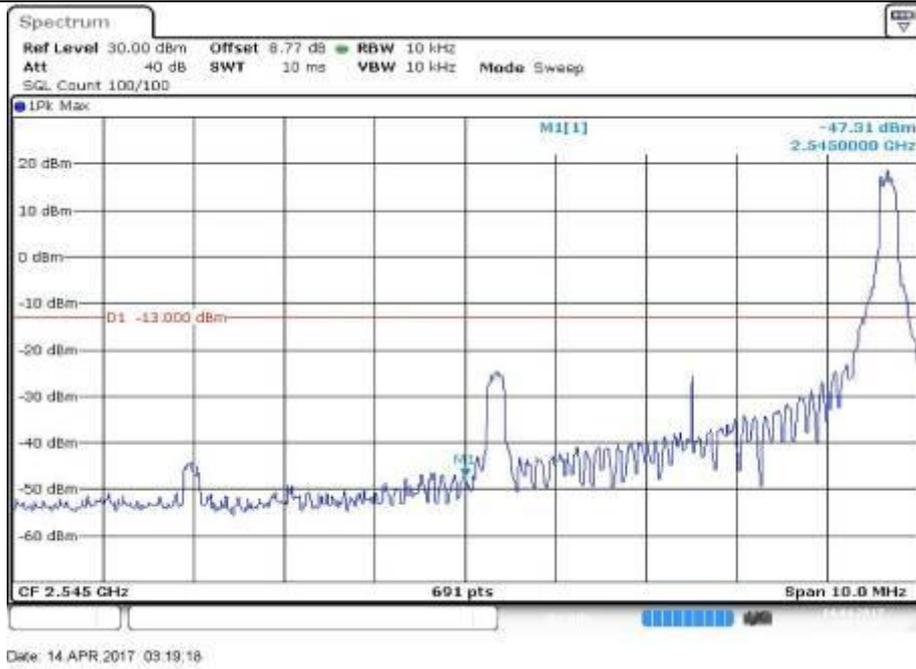


Fig.6

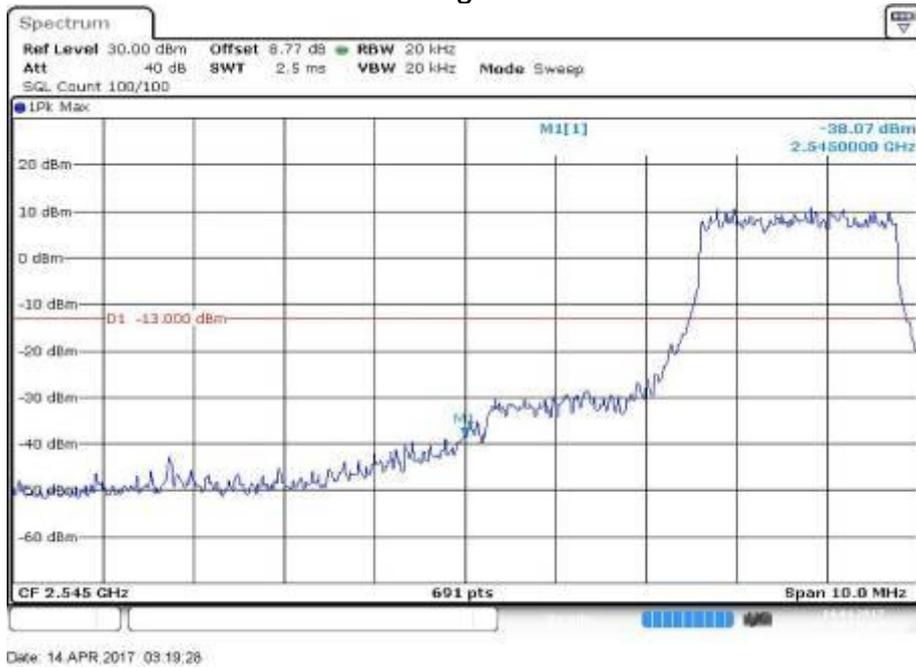


Fig.7

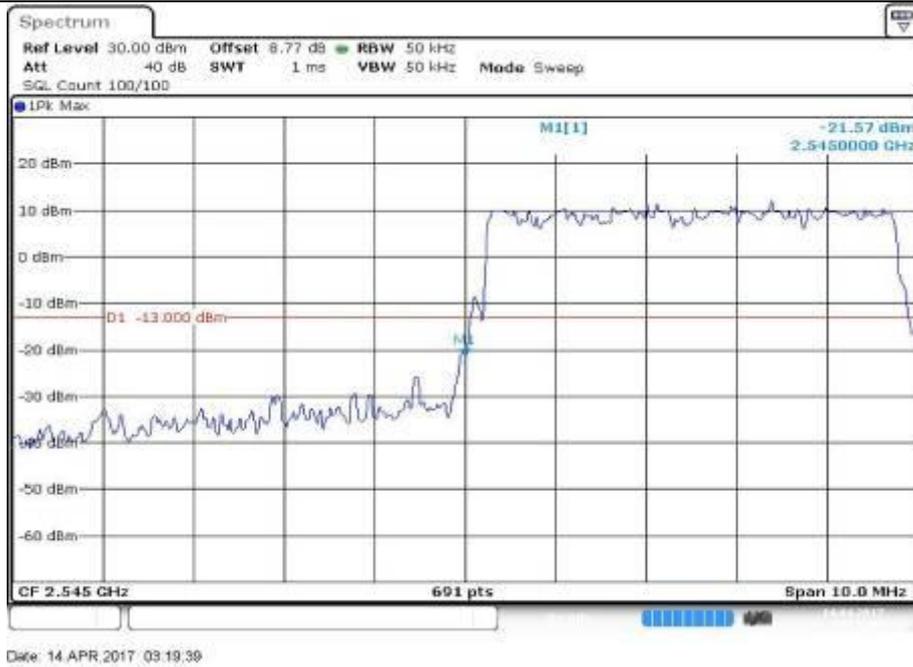


Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot	
						QPSK	16-QAM
41	2592.5	40615	5	1	0	Fig.1	Fig.5
				1	24	Fig.2	Fig.6
				12	6	Fig.3	Fig.7
				25	0	Fig.4	Fig.8

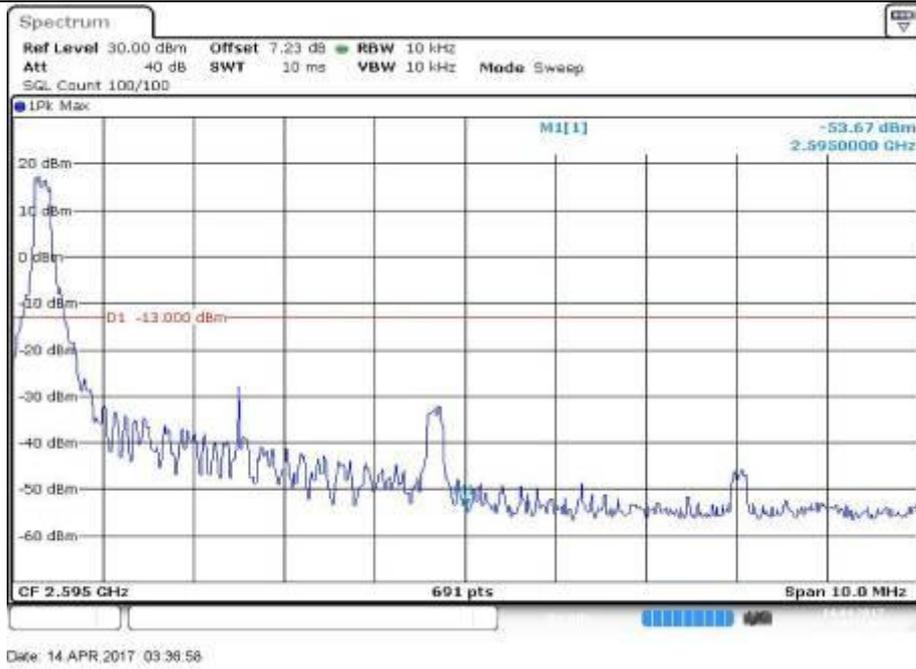


Fig.1

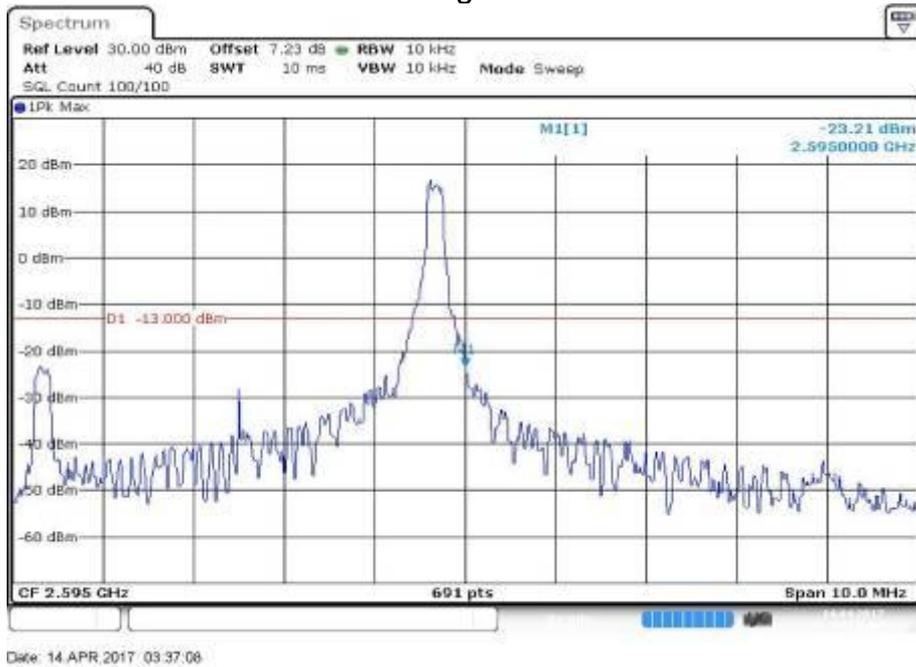


Fig.2

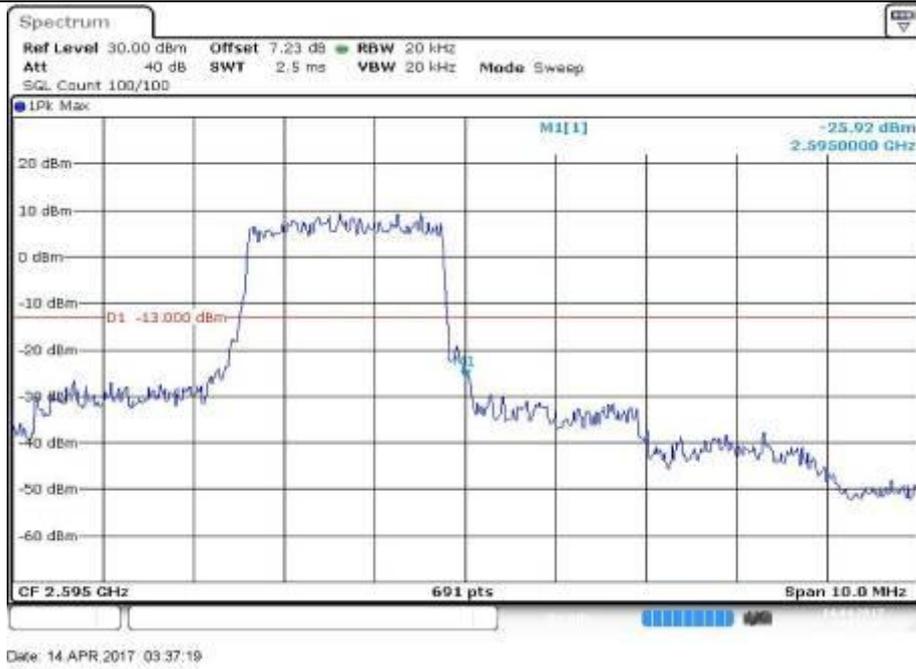


Fig.3

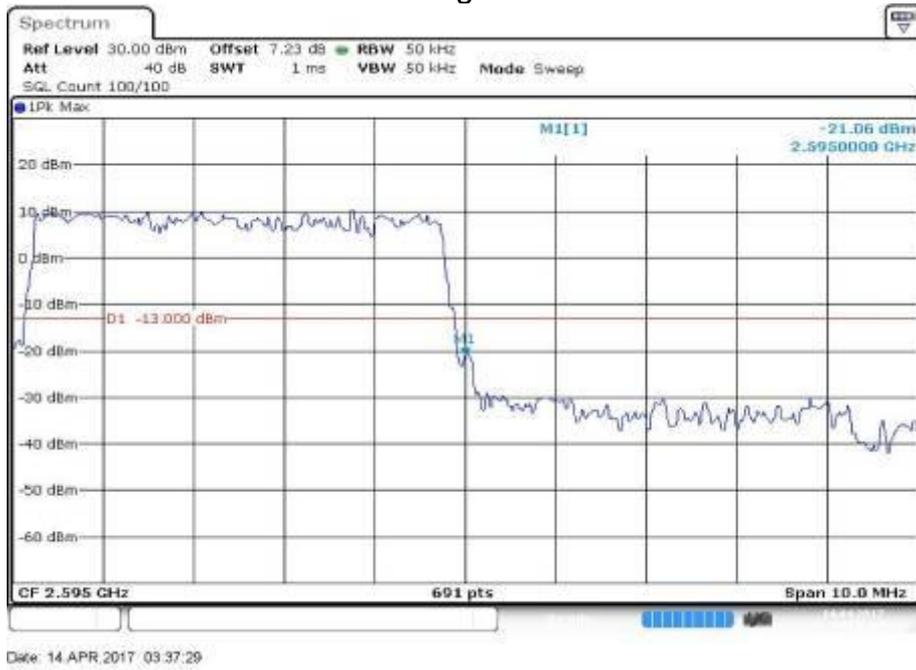


Fig.4

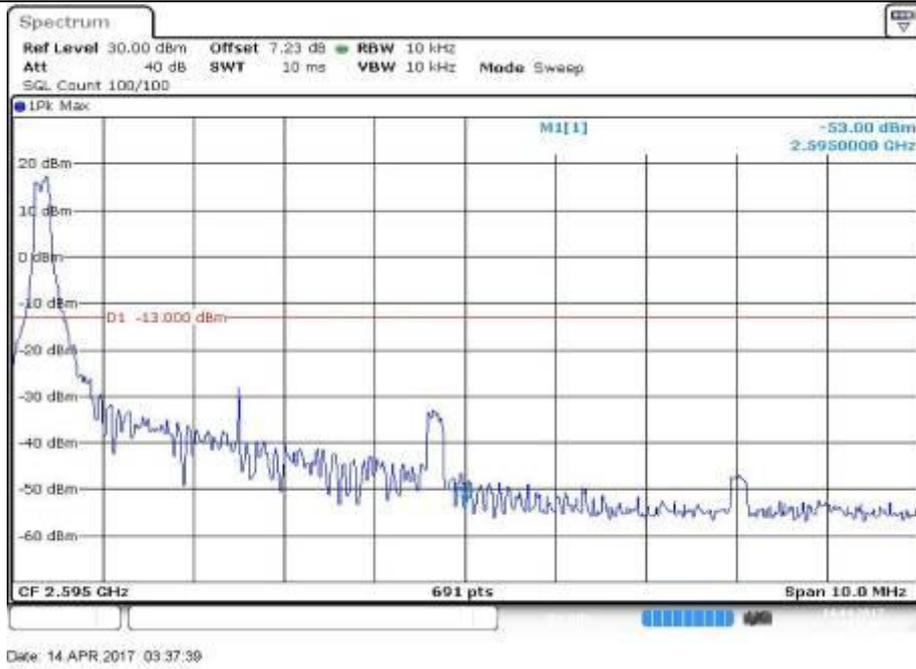


Fig.5

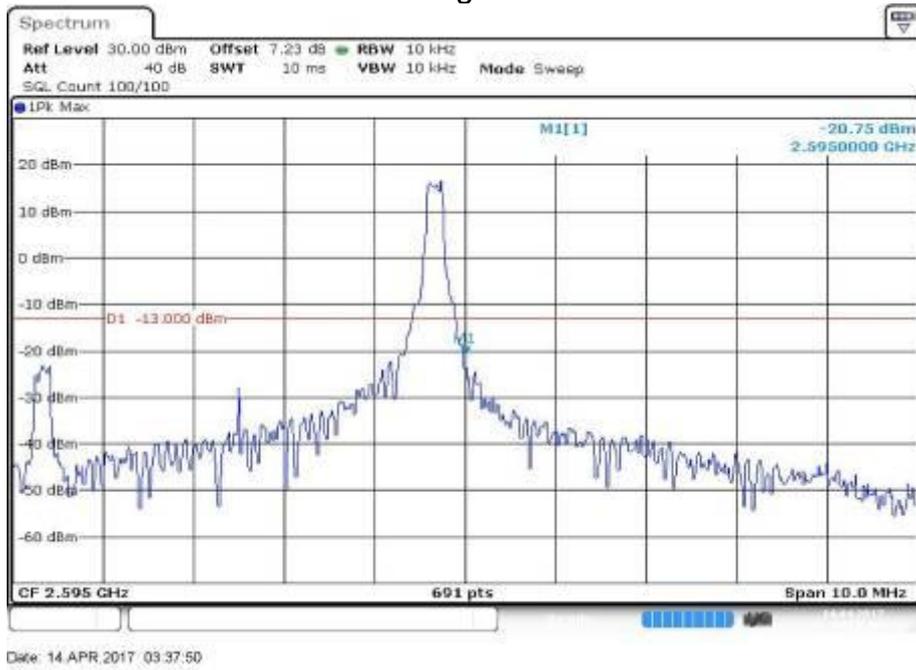


Fig.6



Fig.7

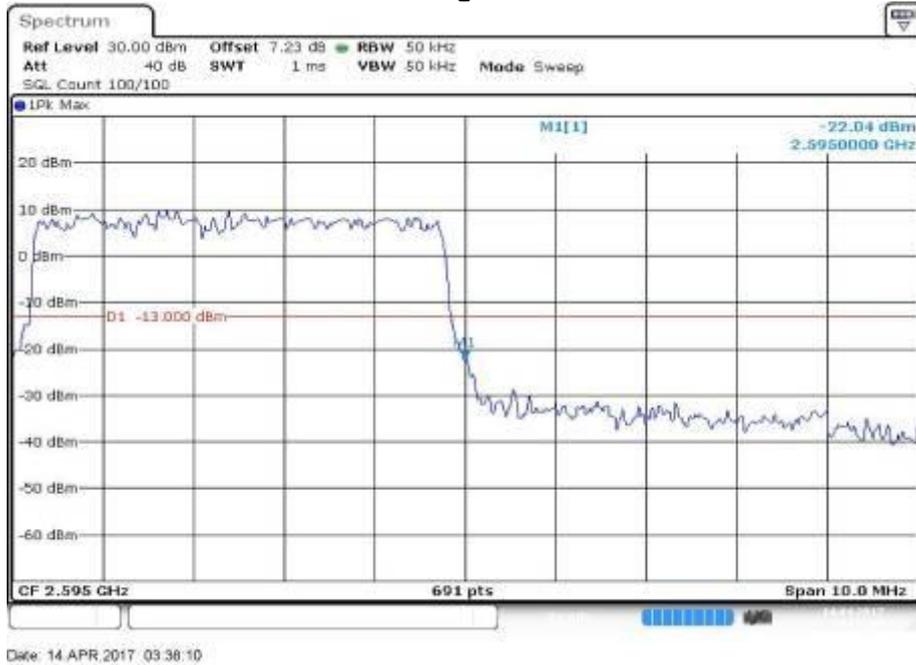


Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band EdgesPlot	
						QPSK	16-QAM
41	2550	40190	10	1	0	Fig.1	Fig.5
				1	49	Fig.2	Fig.6
				24	12	Fig.3	Fig.7
				50	0	Fig.4	Fig.8

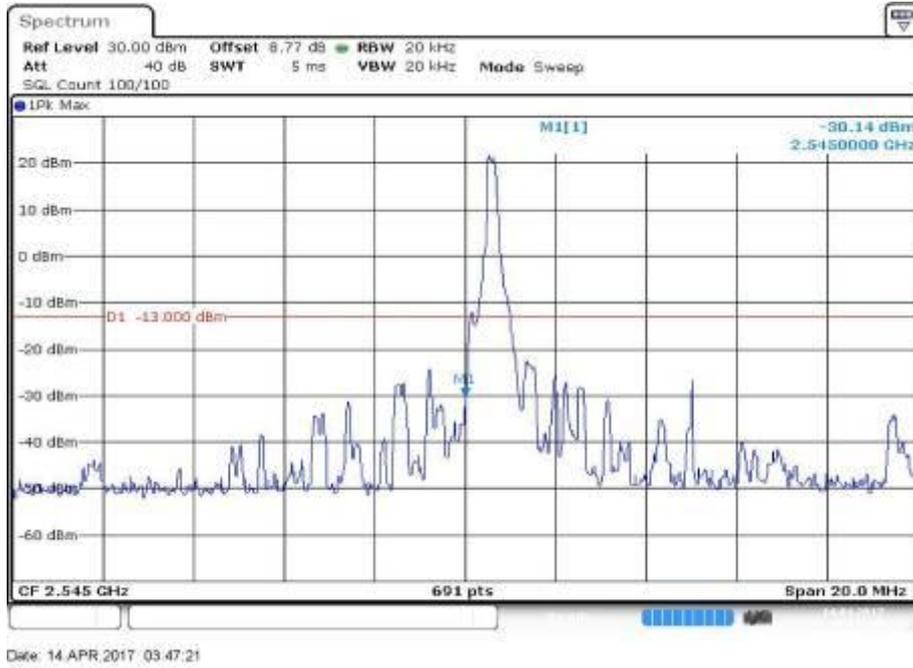


Fig.1

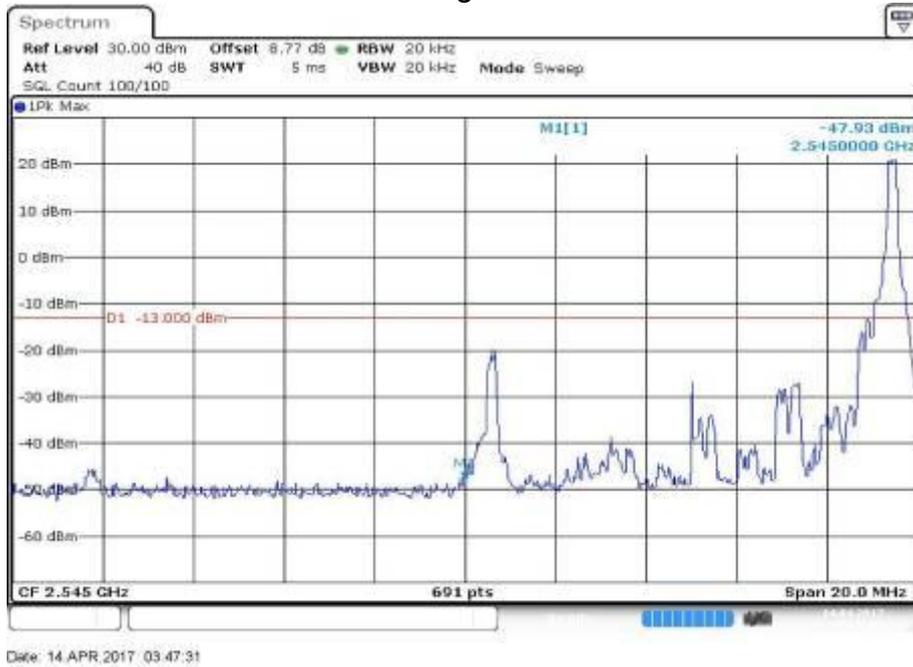


Fig.2

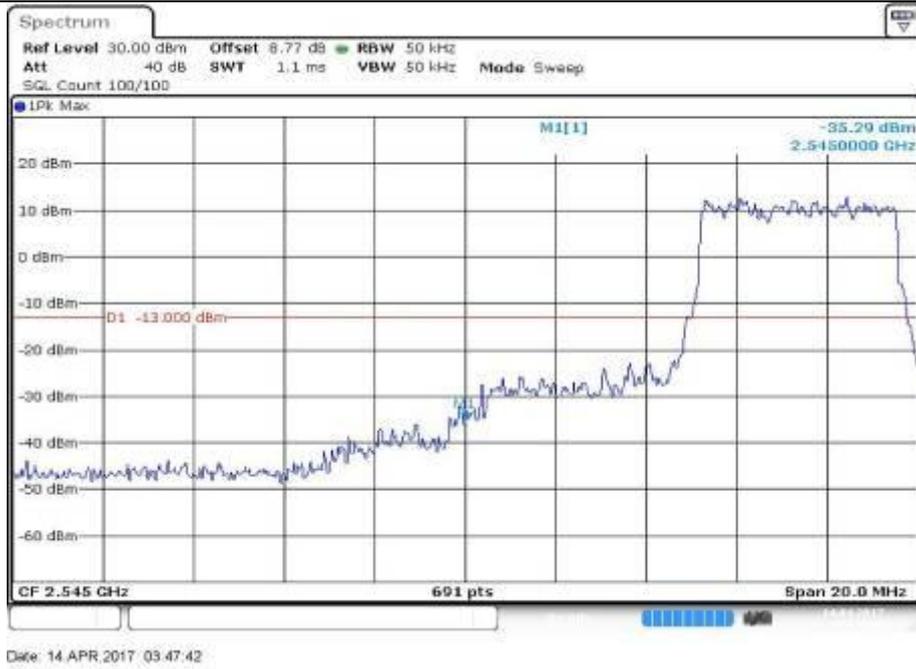


Fig.3

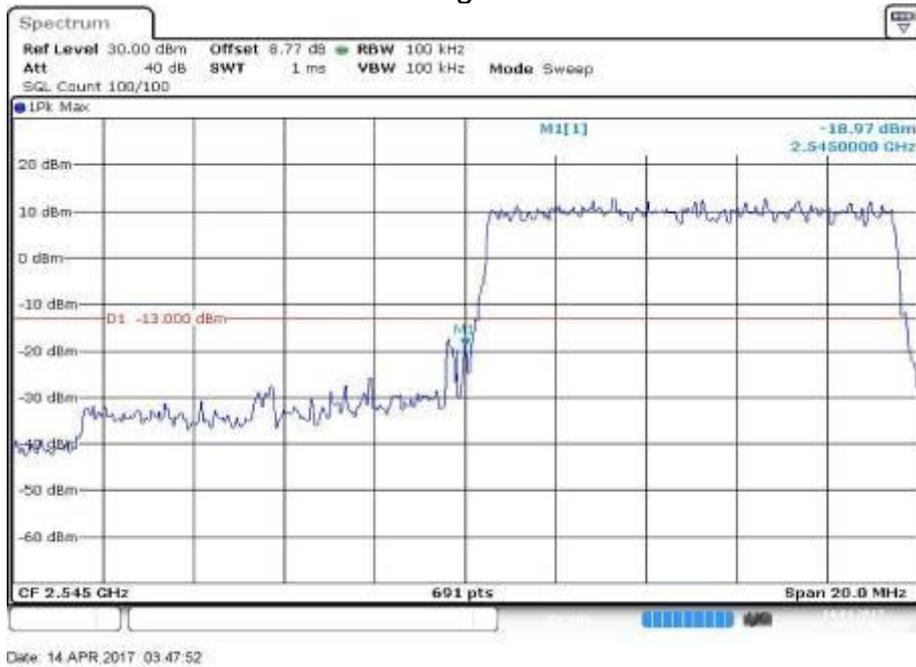


Fig.4

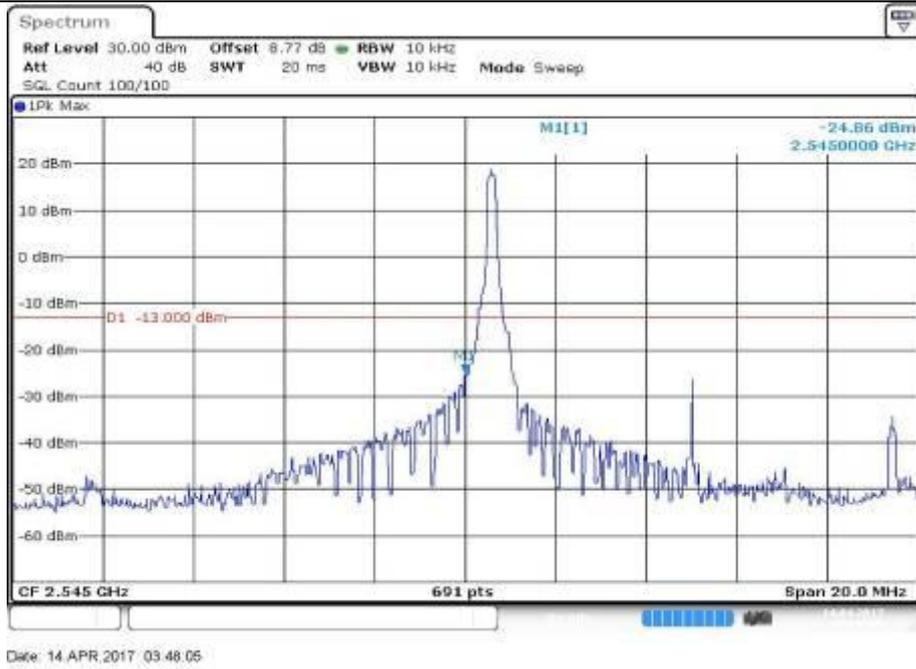


Fig.5

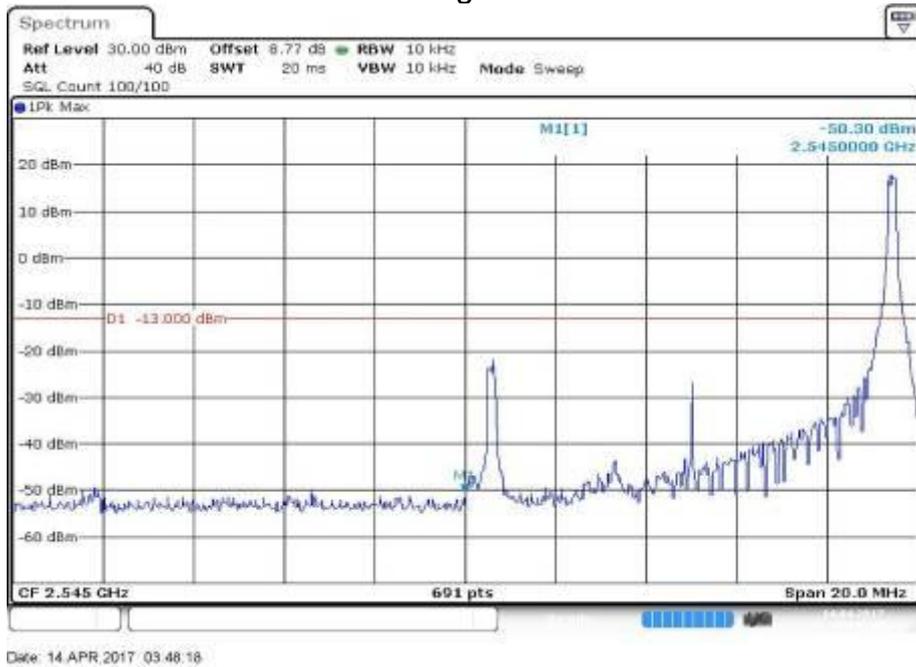


Fig.6



Fig.7

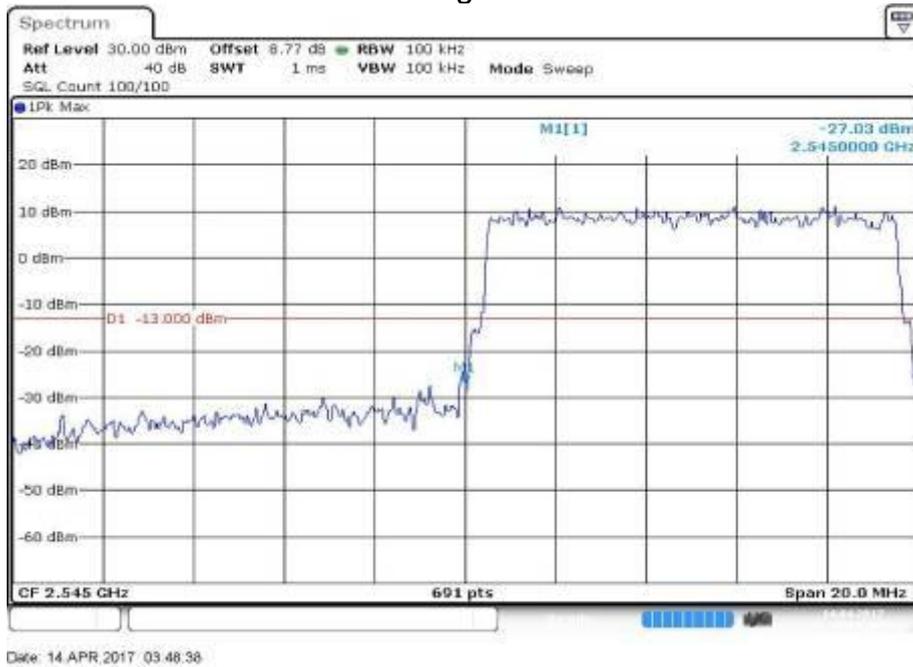


Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot	
						QPSK	16-QAM
41	2590	40590	10	1	0	Fig.1	Fig.5
				1	49	Fig.2	Fig.6
				24	12	Fig.3	Fig.7
				50	0	Fig.4	Fig.8

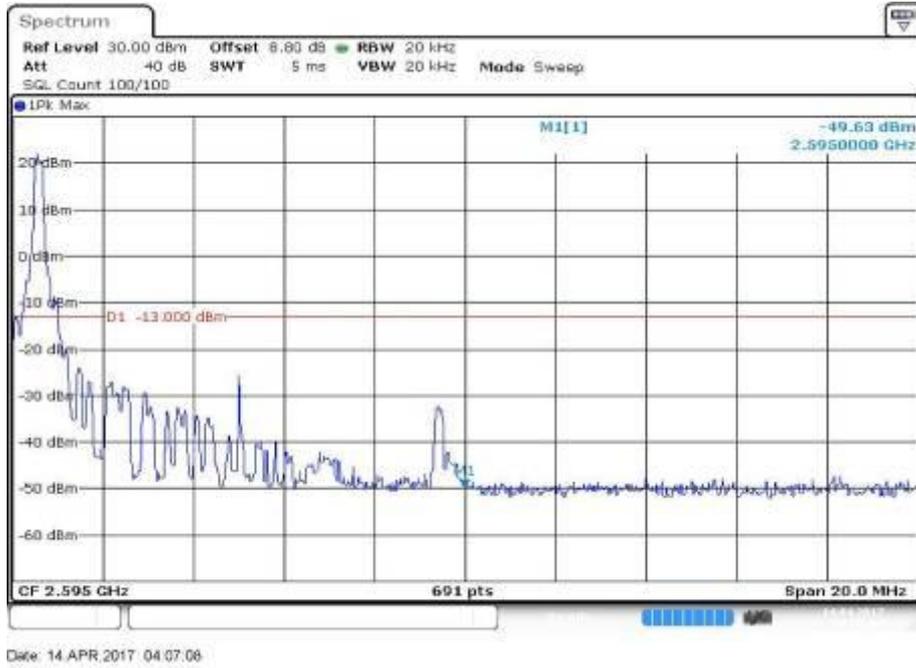


Fig.1

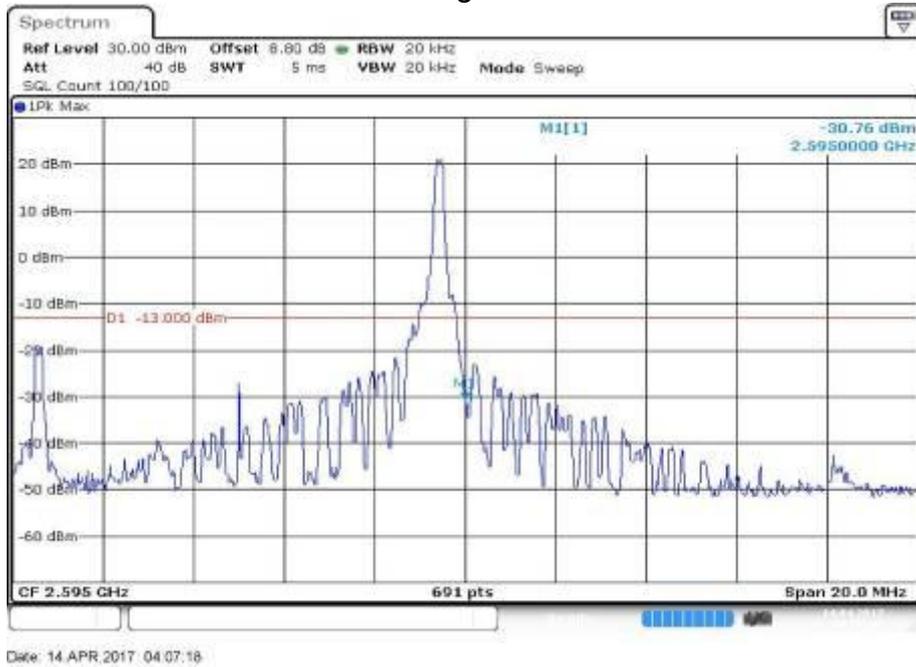


Fig.2

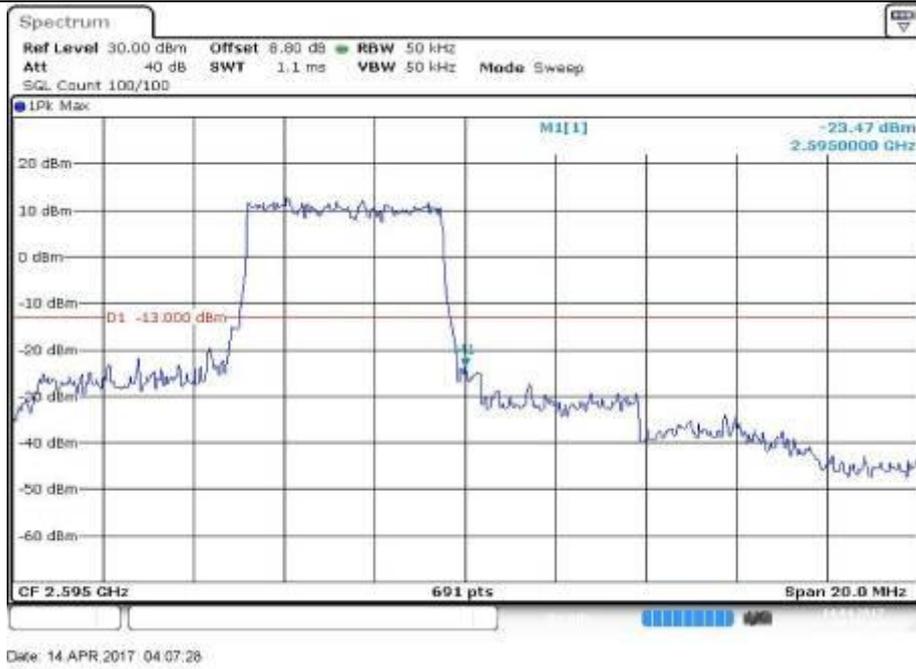


Fig.3

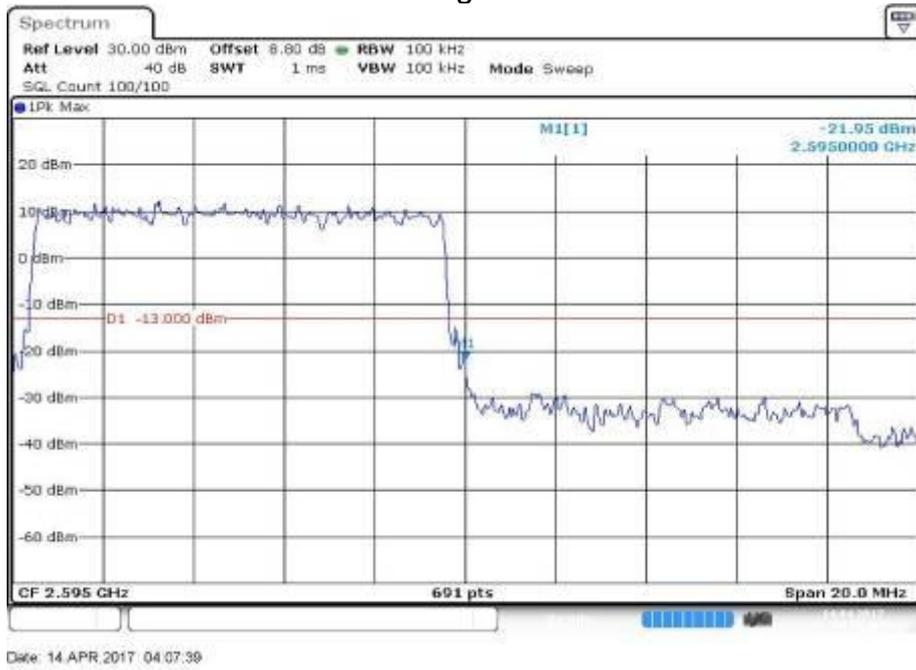


Fig.4

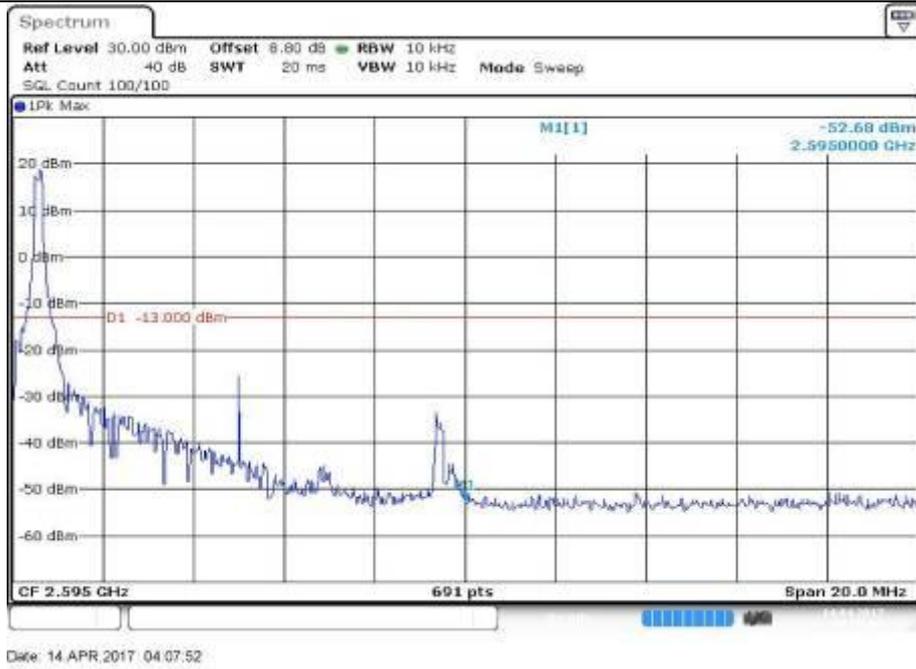


Fig.5

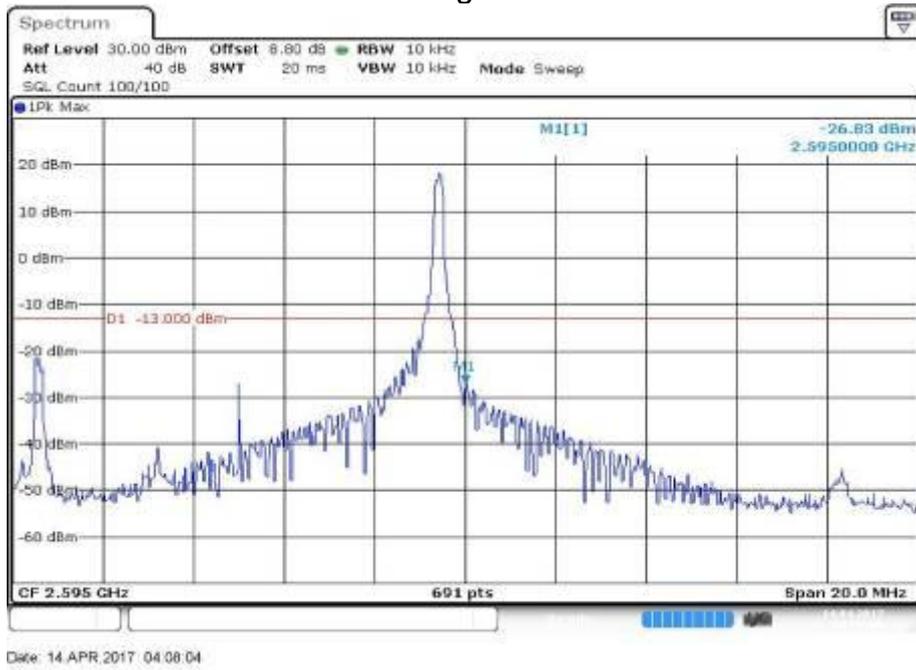
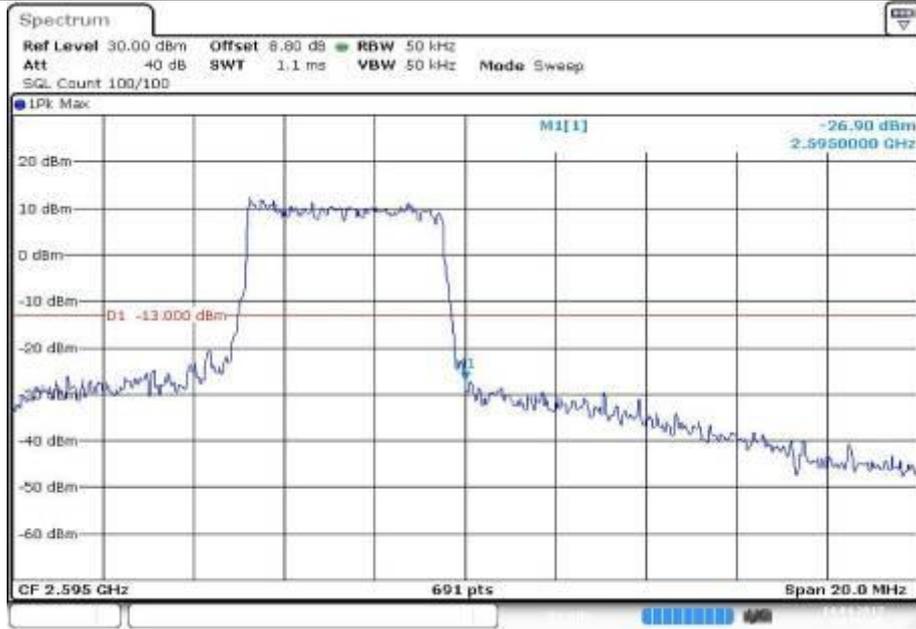
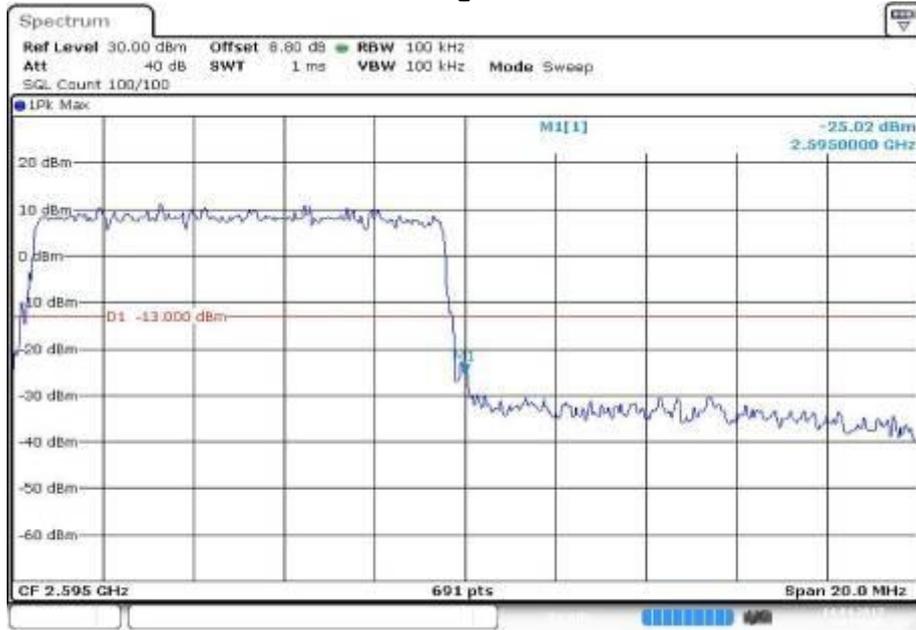


Fig.6



Date: 14 APR 2017 04:08:15

Fig.7



Date: 14 APR 2017 04:08:25

Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band EdgesPlot	
						QPSK	16-QAM
41	2552.5	40215	15	1	0	Fig.1	Fig.5
				1	74	Fig.2	Fig.6
				38	18	Fig.3	Fig.7
				75	0	Fig.4	Fig.8

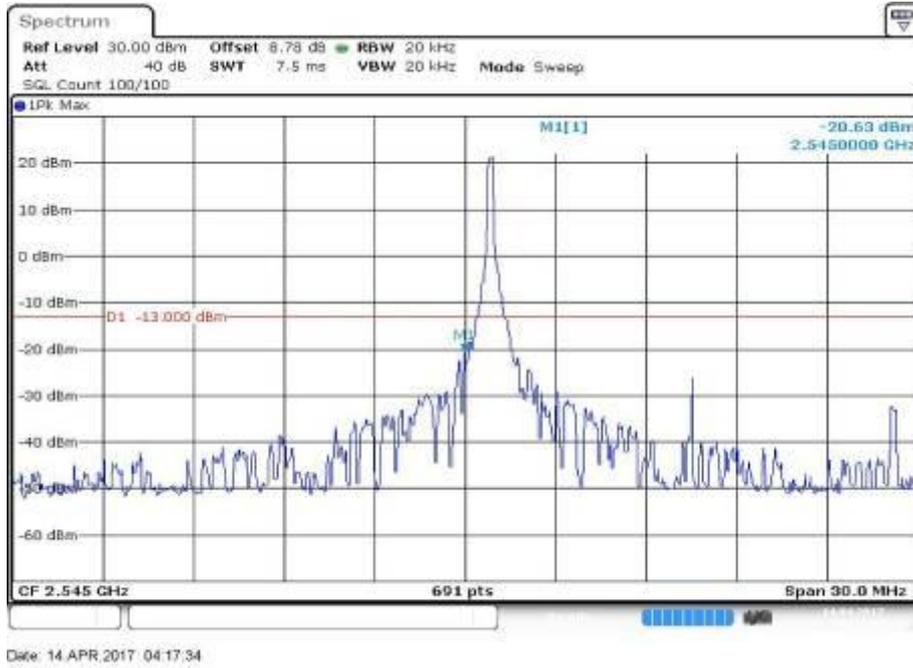


Fig.1

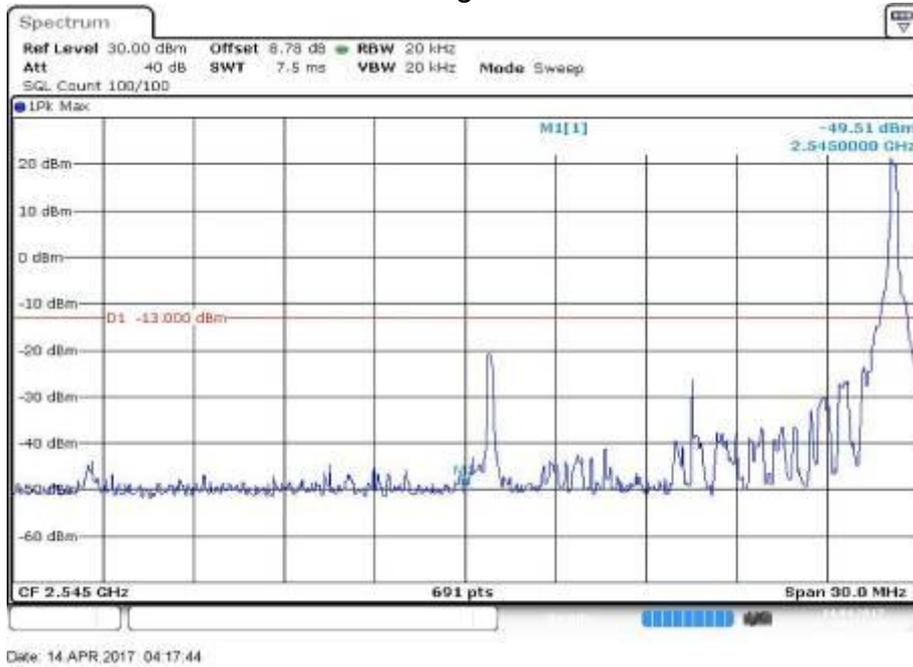


Fig.2

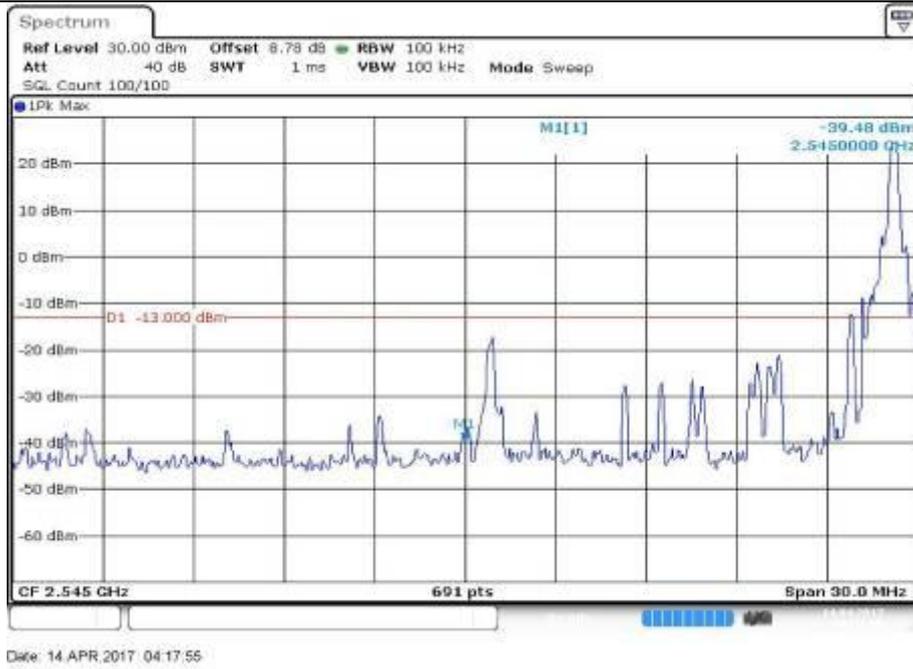


Fig.3

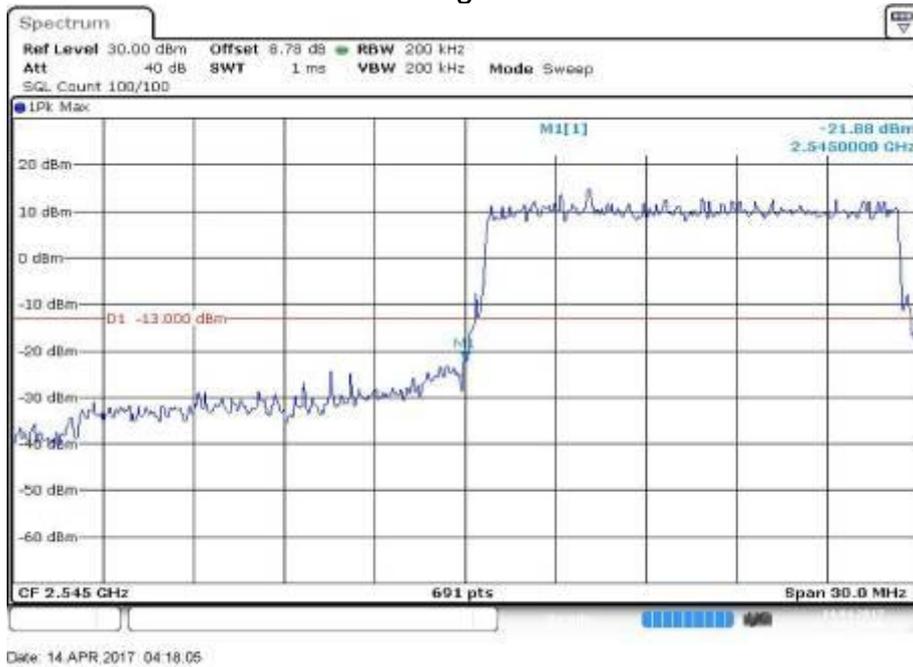


Fig.4



Fig.5

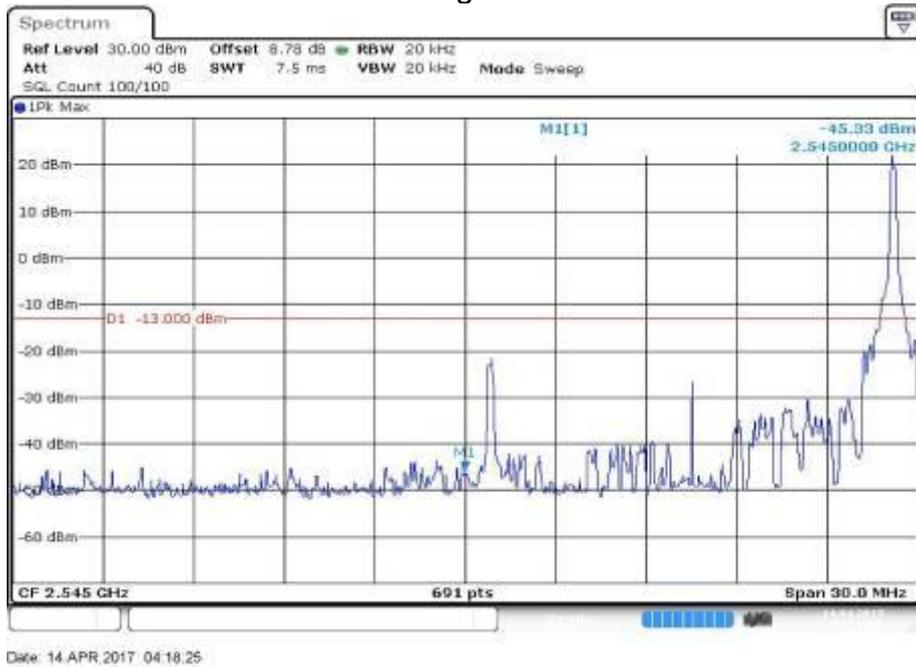
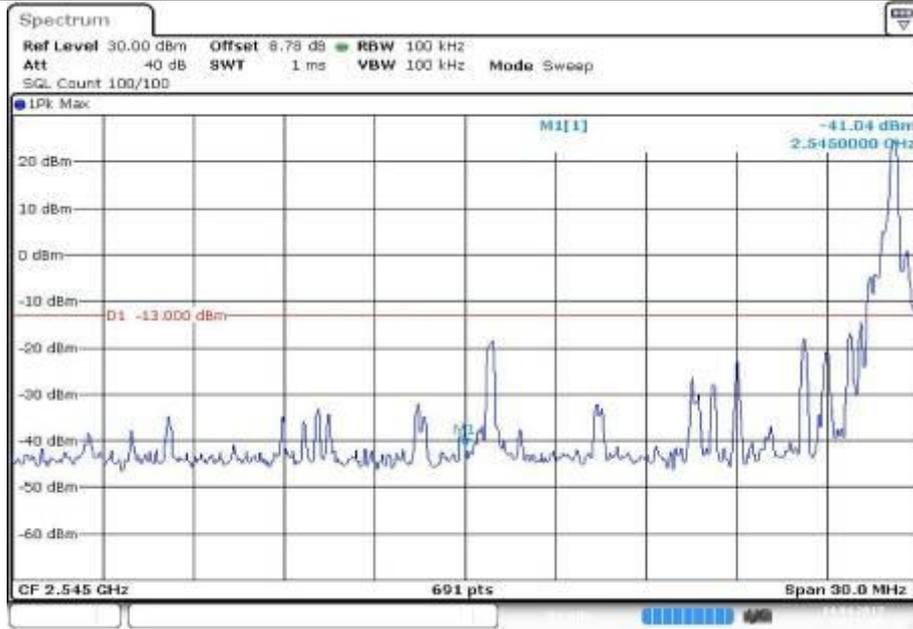
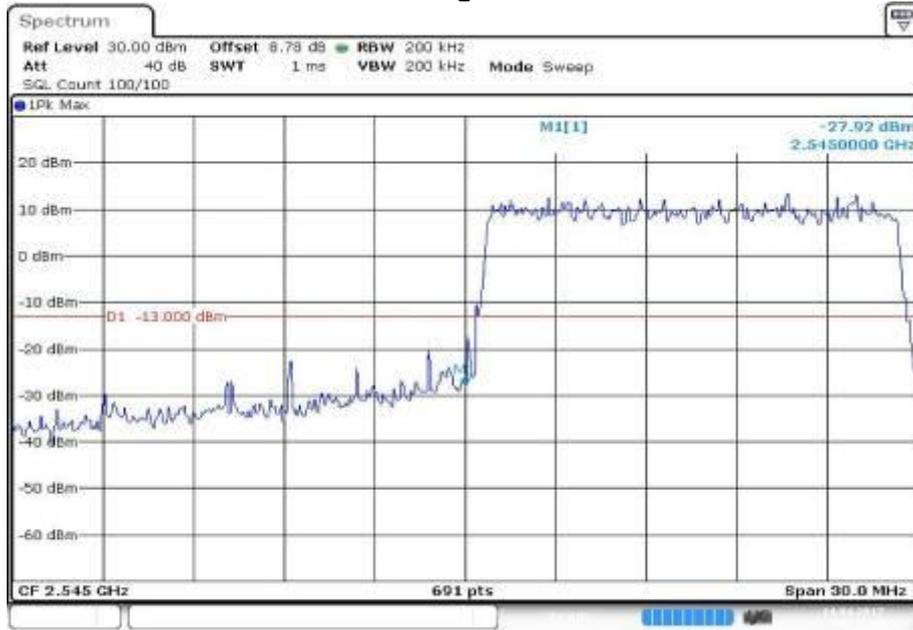


Fig.6



Date: 14 APR 2017 04:18:38

Fig.7



Date: 14 APR 2017 04:18:46

Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot	
						QPSK	16-QAM
41	2587.5	40565	15	1	0	Fig.1	Fig.5
				1	74	Fig.2	Fig.6
				38	18	Fig.3	Fig.7
				75	0	Fig.4	Fig.8

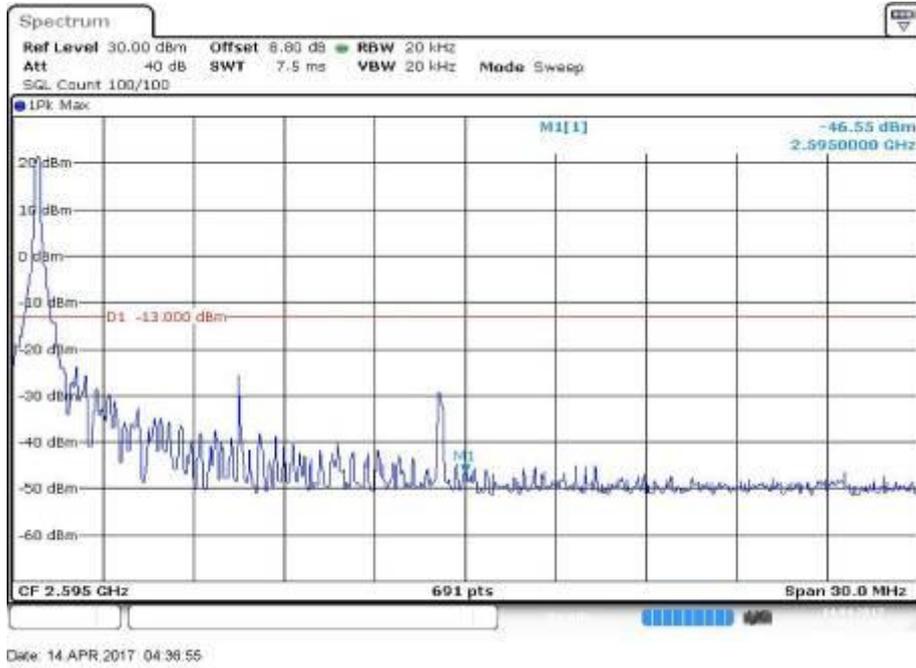


Fig.1

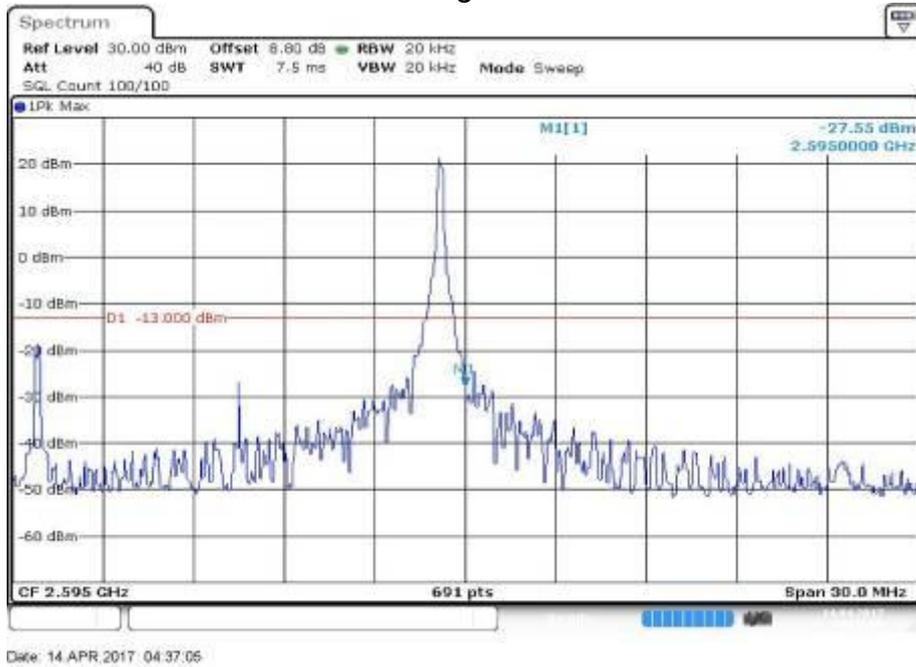


Fig.2

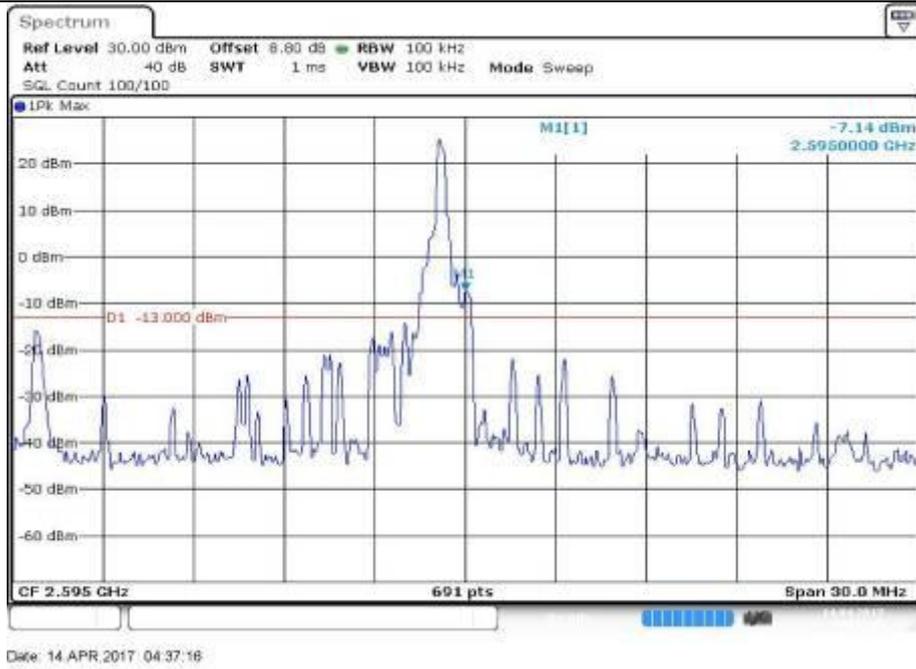


Fig.3

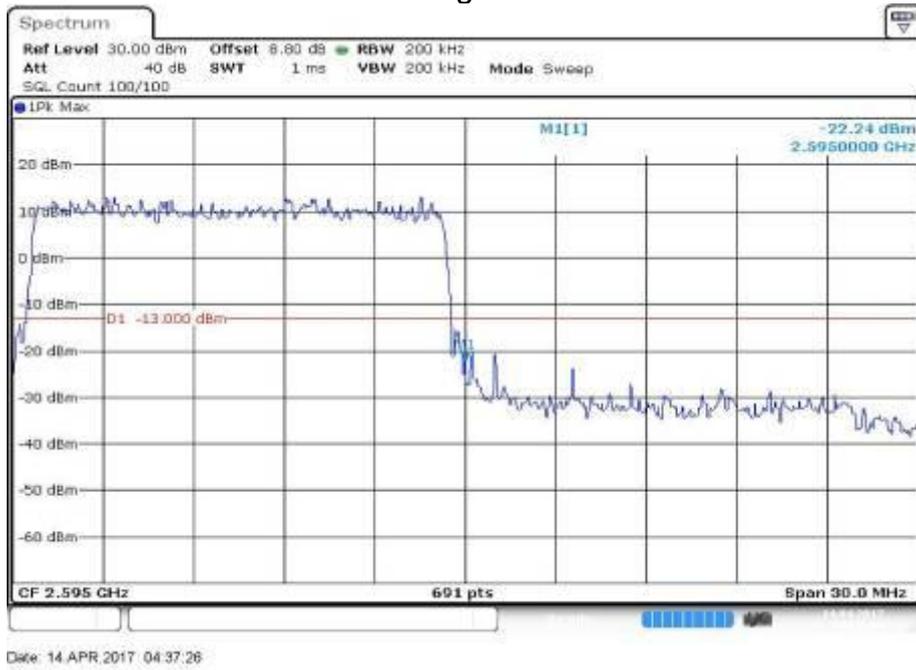


Fig.4

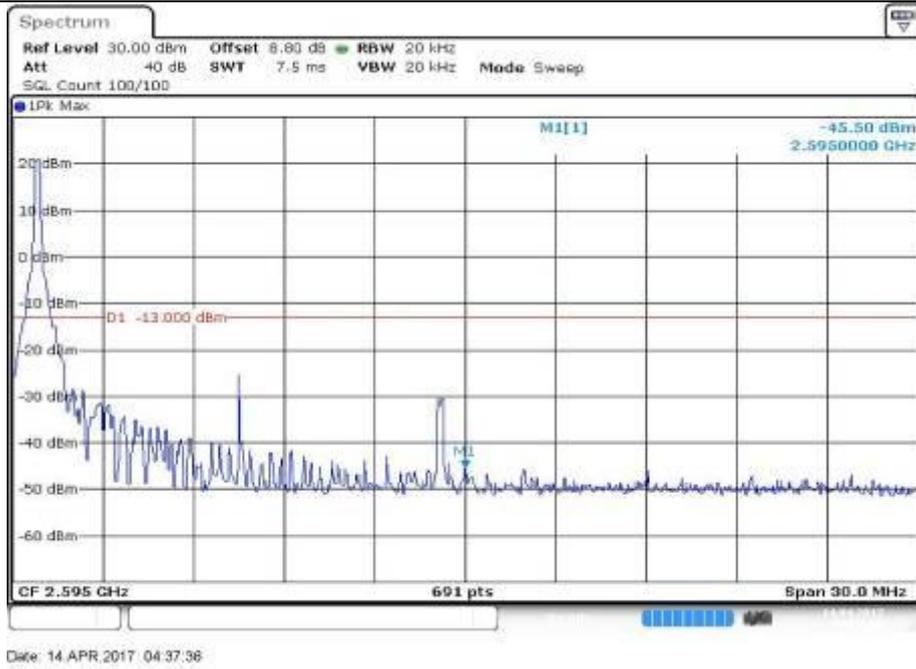


Fig.5

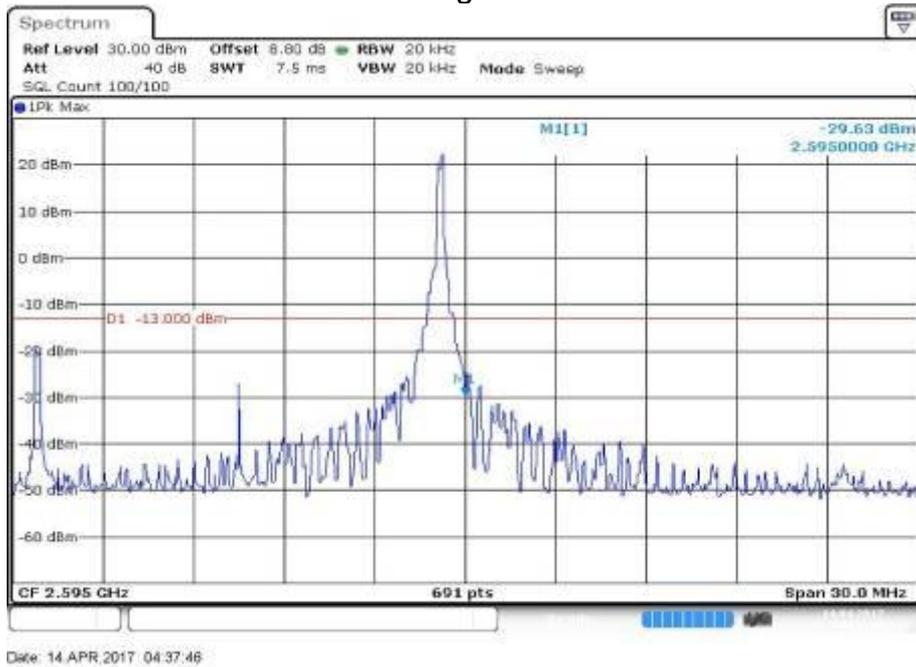
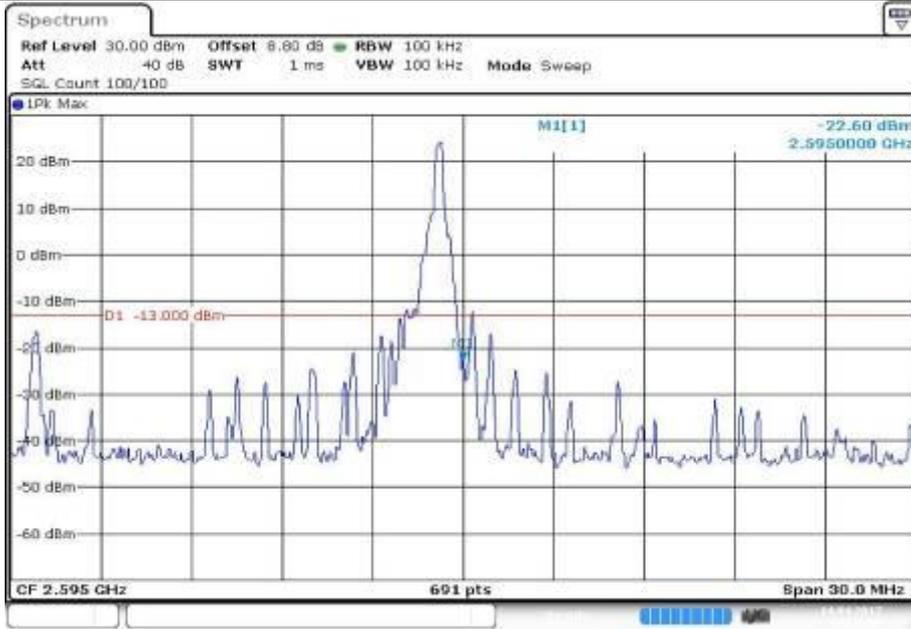
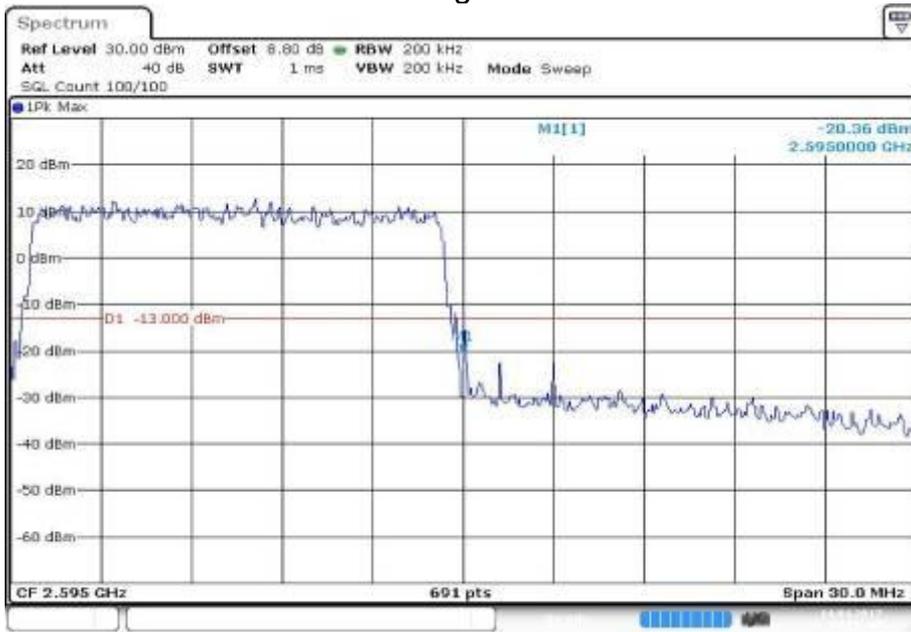


Fig.6



Date: 14 APR 2017 04:37:57

Fig.7



Date: 14 APR 2017 04:38:07

Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band EdgesPlot	
						QPSK	16-QAM
41	2555	40240	20	1	0	Fig.1	Fig.5
				1	99	Fig.2	Fig.6
				50	25	Fig.3	Fig.7
				100	0	Fig.4	Fig.8

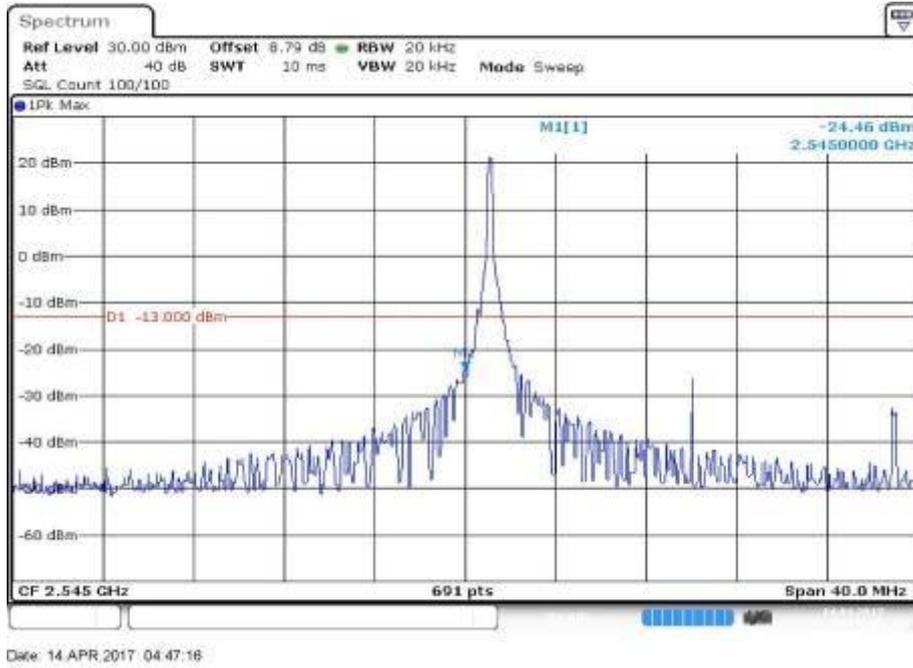


Fig.1

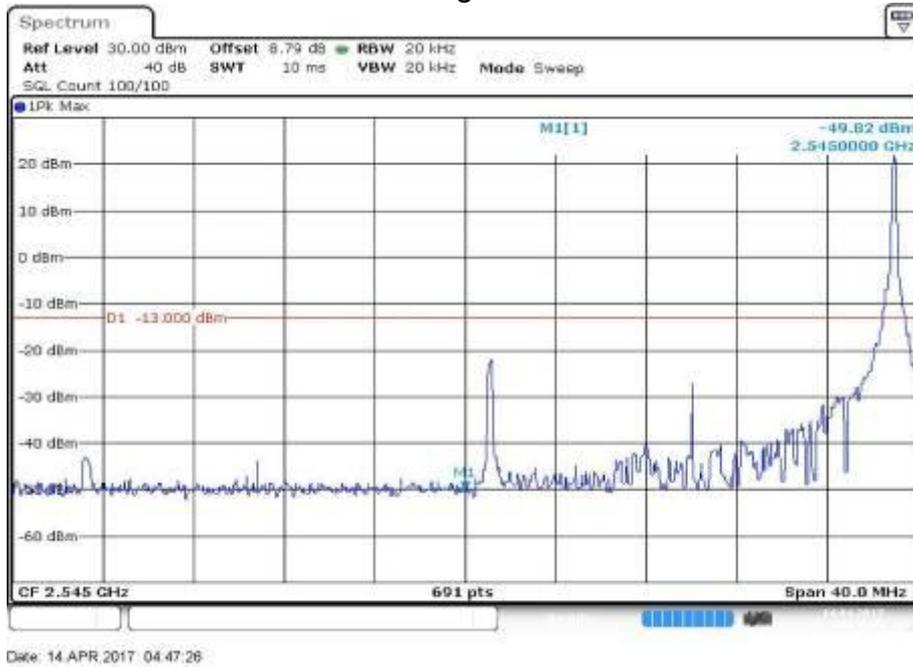


Fig.2



Fig.3

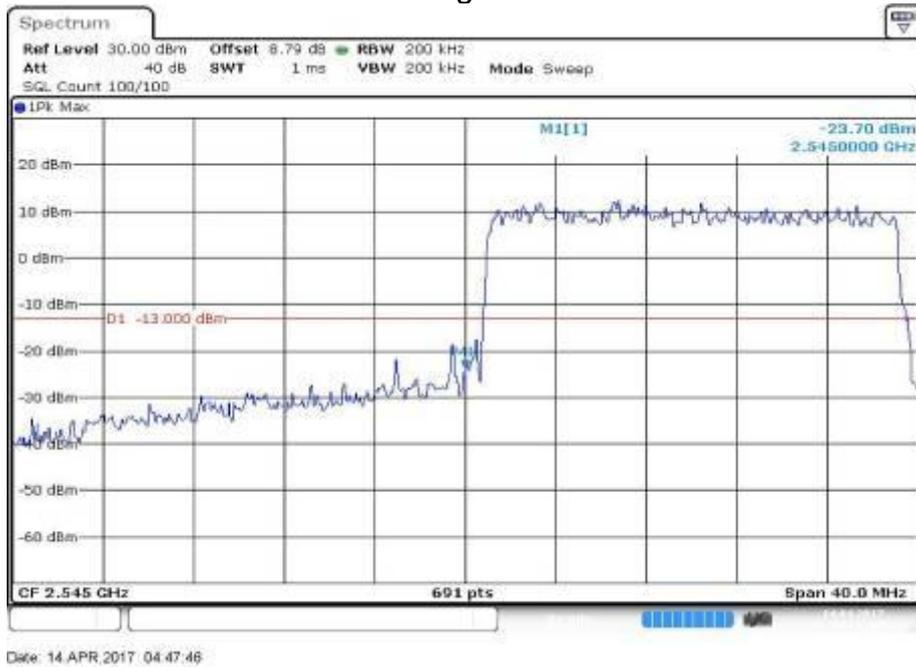


Fig.4

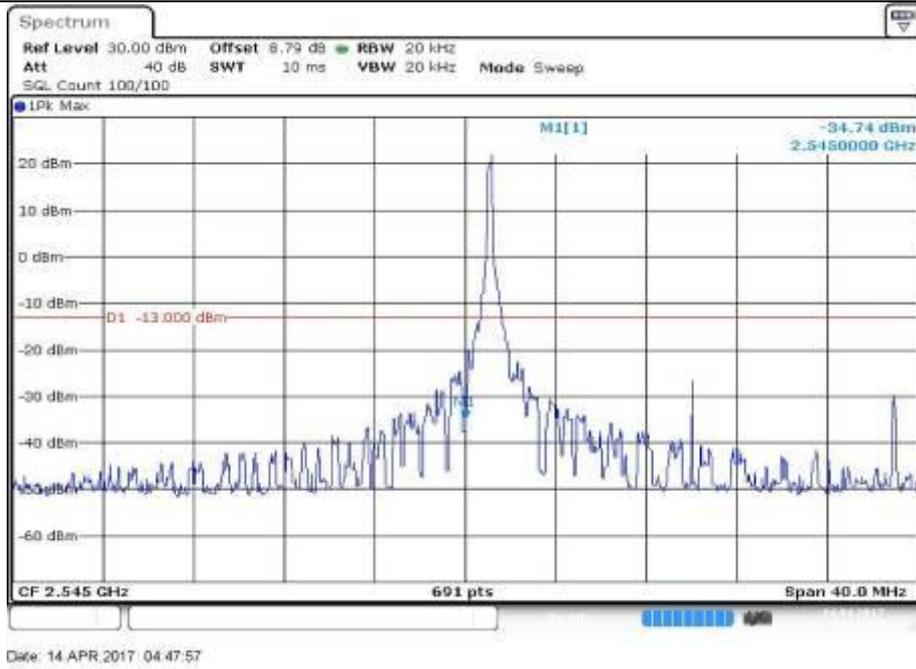


Fig.5

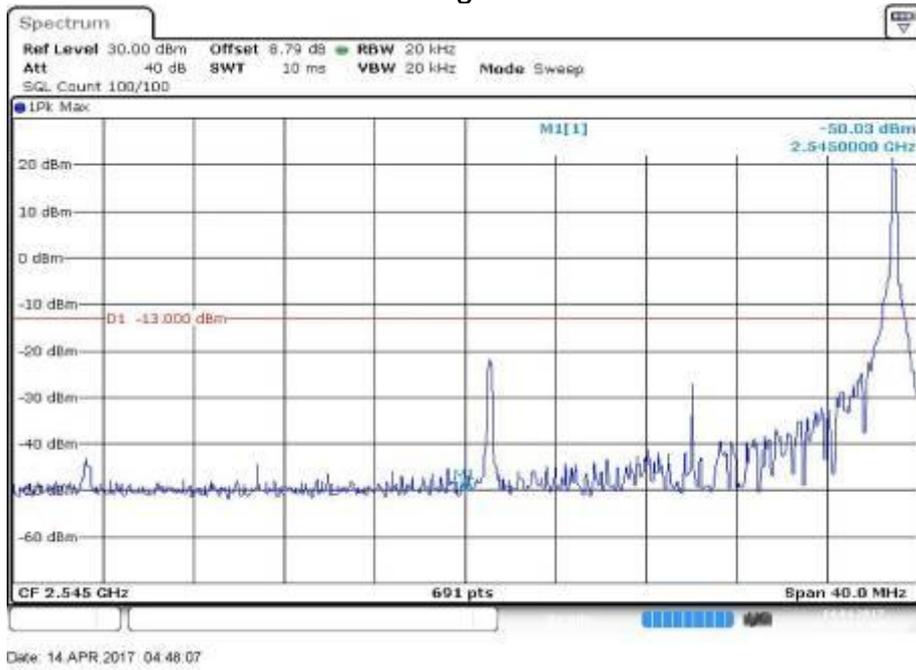


Fig.6

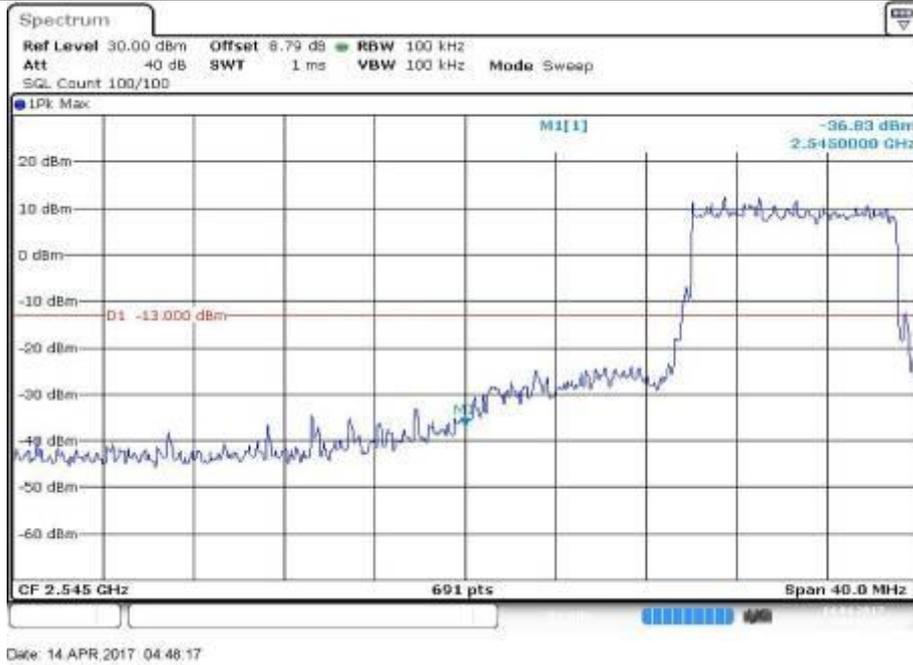


Fig.7

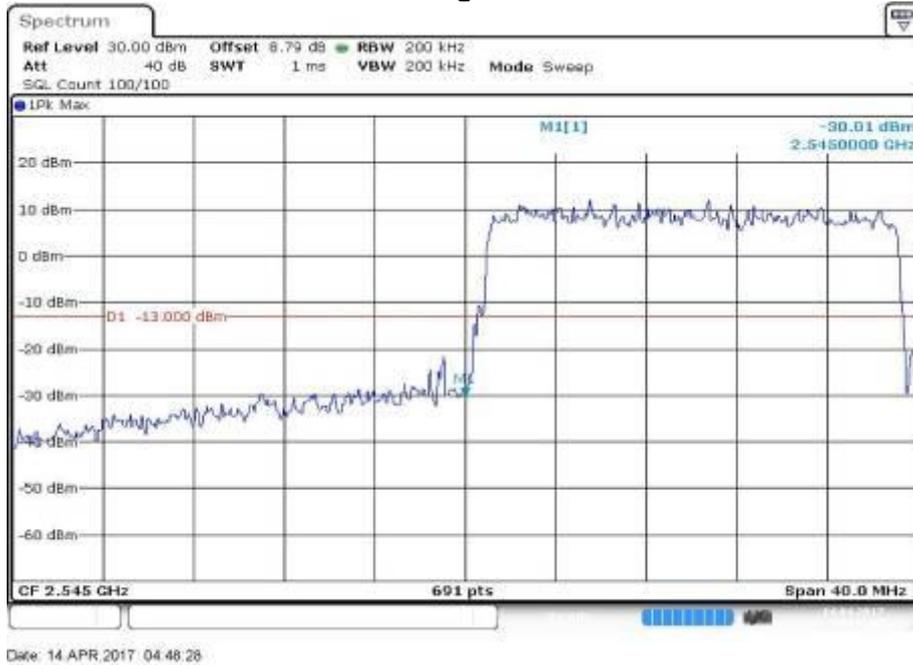


Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot	
						QPSK	16-QAM
41	2585	40540	20	1	0	Fig.1	Fig.5
				1	99	Fig.2	Fig.6
				50	25	Fig.3	Fig.7
				100	0	Fig.4	Fig.8

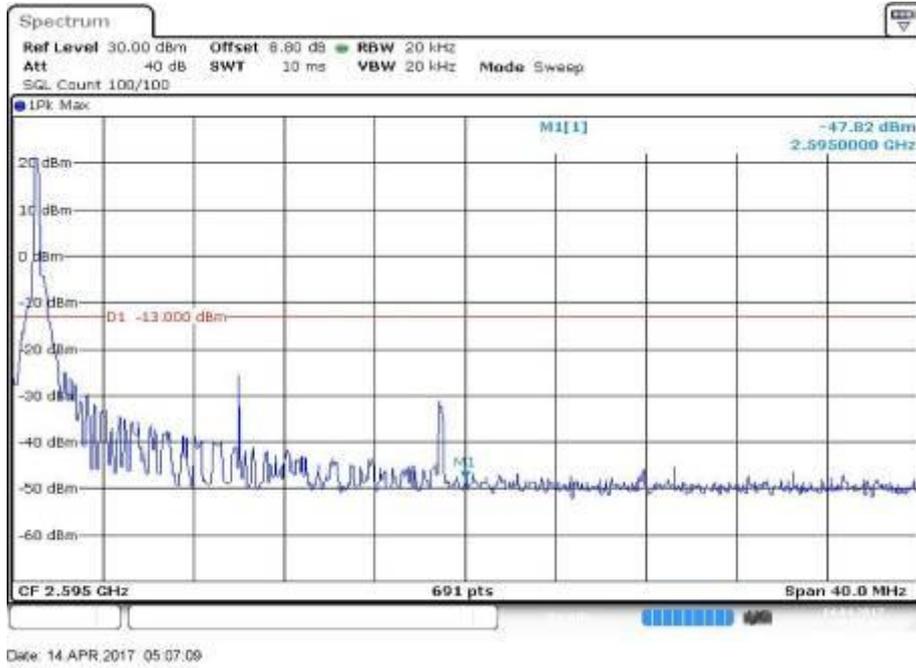


Fig.1

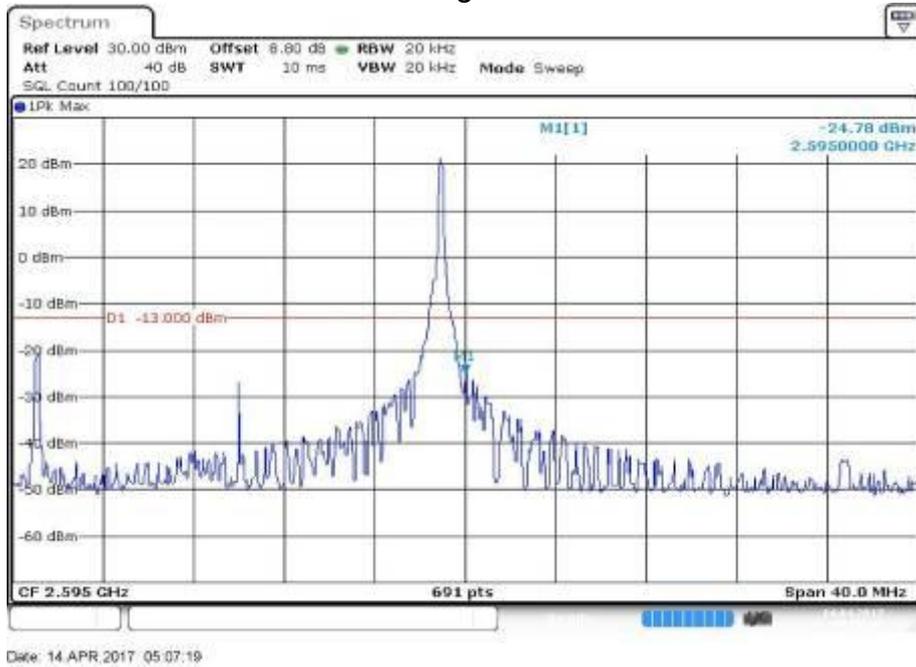


Fig.2

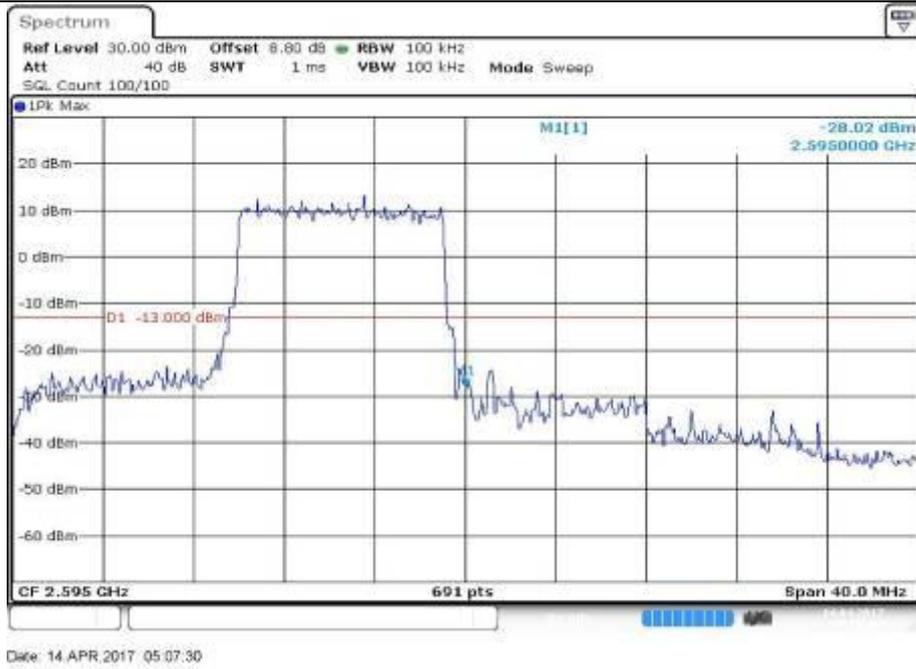


Fig.3

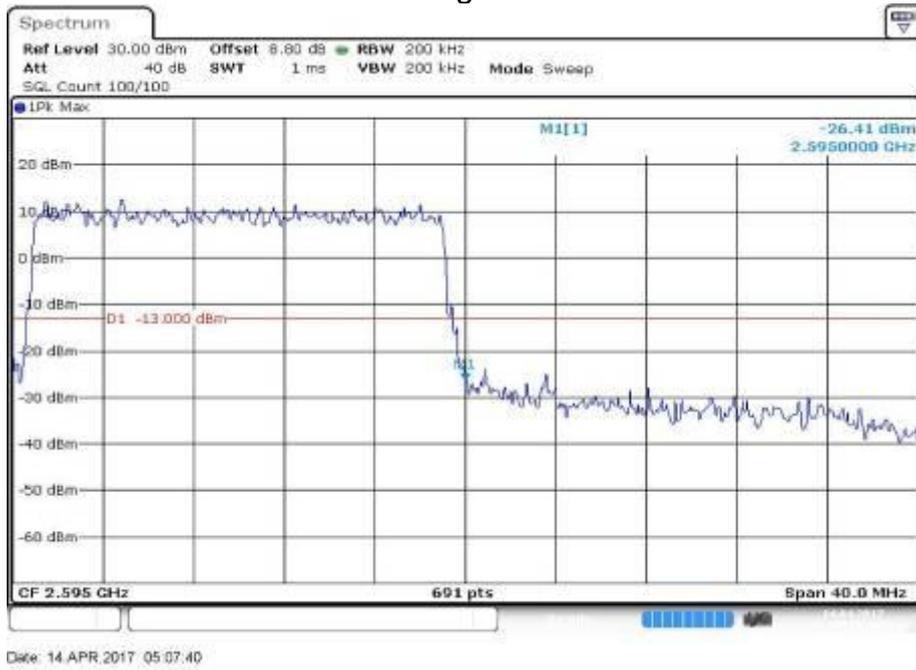


Fig.4

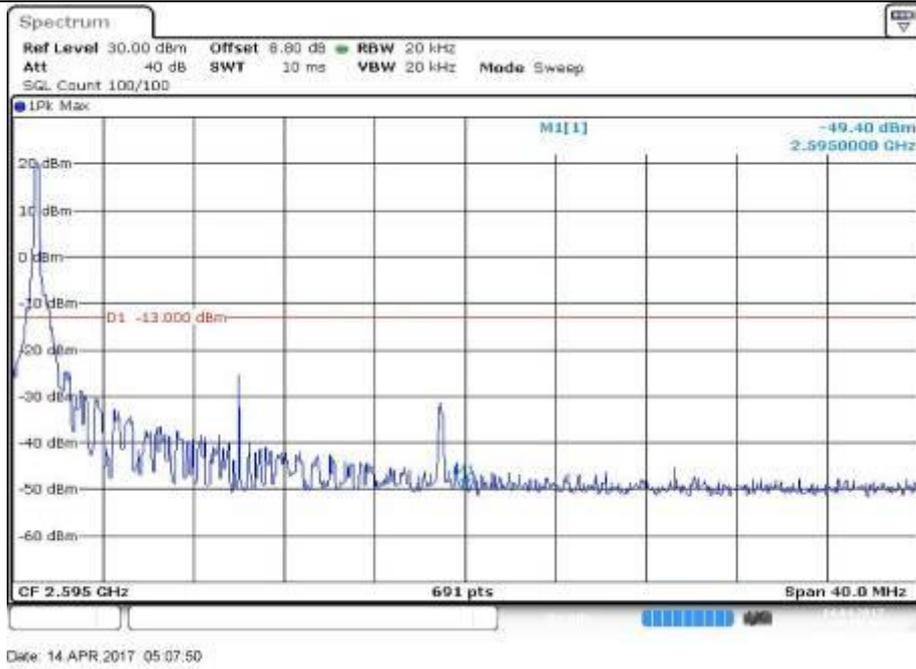


Fig.5

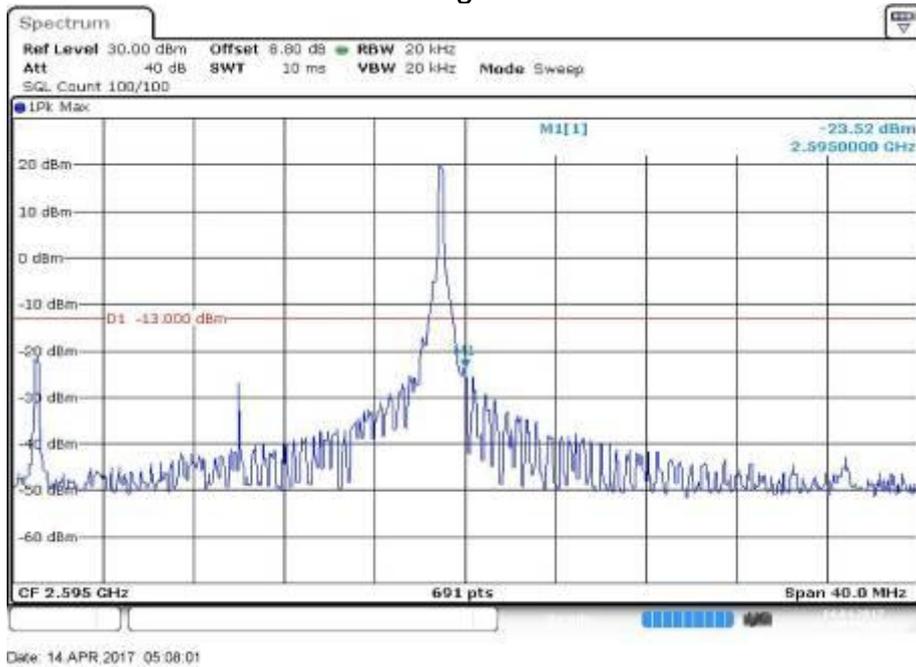


Fig.6

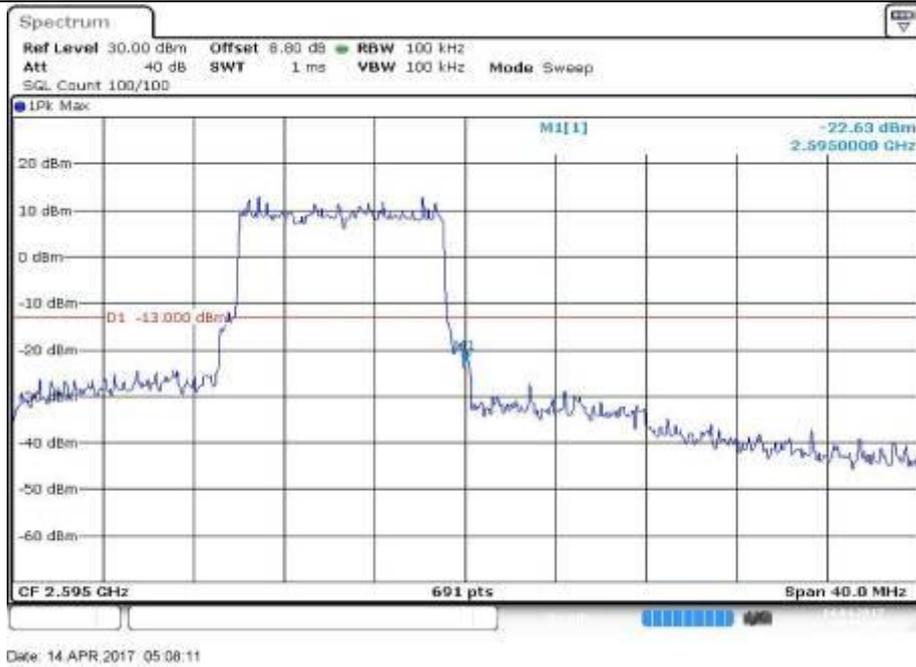


Fig.7

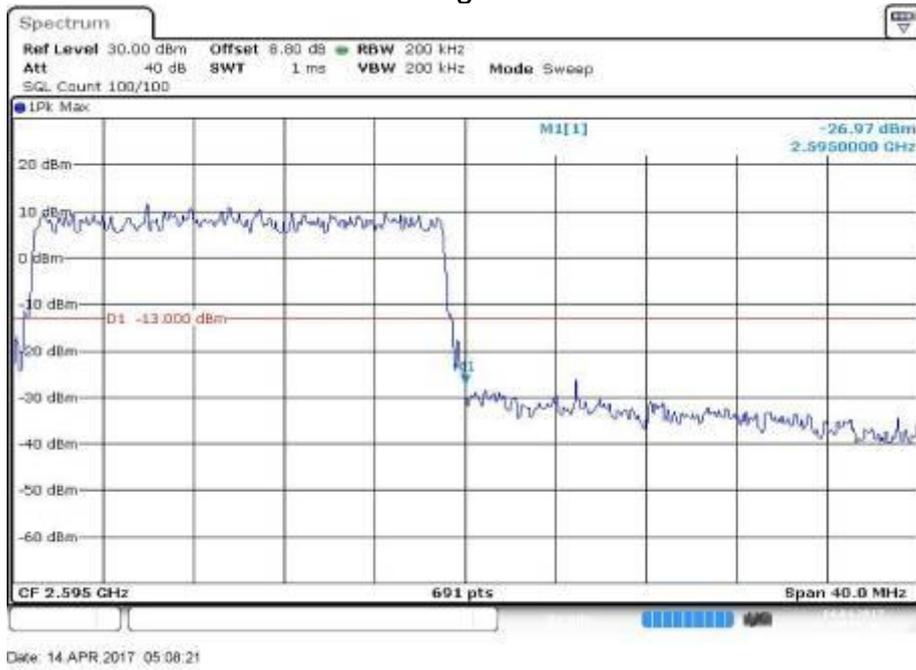


Fig.8

### 7 Frequency Stability-FCC Part 2.1055/27.54

Test result:

Band	BW	Test Result (ppm)@NV		Test Result (ppm)@NT	
		Temperature(°C)		Voltage	
41	5	-30	-0.002	LV	0.002
		-20	0.003		
		-10	0.000		
		0	-0.001		
		10	0.002	HV	
		20	0.002		
		30	0.003		
		40	0.002		
	50	-0.002			
	10	-30	0.000	LV	-0.001
		-20	0.001		
		-10	-0.001		
		0	0.001		
		10	0.000	HV	
		20	-0.001		
		30	0.000		
		40	0.000		
	50	-0.001			
	15	-30	-0.001	LV	0.000
		-20	0.002		
		-10	0.000		
		0	0.002		
		10	0.000	HV	
		20	-0.001		
		30	0.000		
		40	0.001		
	50	-0.002			
	20	-30	0.001	LV	-0.001
		-20	0.000		
		-10	-0.001		
		0	-0.001		
		10	0.000	HV	
20		0.002			
30		0.001			
40		-0.001			
50	0.001				

## **APPENDIX B – TEST DATA OF RADIATED EMISSION**

### **Effective Radiated Power-FCC Part 27.50**

LTE band 41

BW 5MHz Test result:

Frequency (MHz)	Peak EIRP(dBm)	Pca Cable loss	Ga Antenna Gain (dB)	Pmea (dBm)	Polarization
2547.5	21.45	-5.8	8	19.25	Vertical
2570	21.44	-5.8	8	19.24	Vertical
2592.5	20.53	-5.8	8.2	18.13	Vertical

BW 10MHz Test result:

Frequency (MHz)	Peak EIRP(dBm)	Pca Cable loss	Ga Antenna Gain (dB)	Pmea (dBm)	Polarization
2550	21.28	-5.8	8	19.08	Vertical
2570	22.14	-5.8	8	19.94	Vertical
2590	21.30	-5.8	8.2	18.90	Vertical

BW 15MHz Test result:

Frequency (MHz)	Peak EIRP(dBm)	Pca Cable loss	Ga Antenna Gain (dB)	Pmea (dBm)	Polarization
2552.5	20.47	-5.8	8	18.27	Vertical
2570	20.50	-5.8	8	18.30	Vertical
2587.5	21.36	-5.8	8.2	18.96	Vertical

BW 20MHz Test result:

Frequency (MHz)	Peak EIRP(dBm)	Pca Cable loss	Ga Antenna Gain (dB)	Pmea (dBm)	Polarization
2555	20.46	-5.8	8	18.26	Vertical
2570	20.73	-5.8	8	18.53	Vertical
2585	20.51	-5.8	8.2	18.11	Vertical

### Radiated Spurious Emissions-FCC Part 2.1053/27.53

LTE band 41

Test result:

Channel 40165

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2456.31	-52.26	-13	Horizontal
2779.32	-51.47	-13	Vertical
3733.27	-44.09	-13	Vertical
6677.62	-43.12	-13	Vertical
9962.68	-39.43	-13	Vertical
17822.25	-36.42	-13	Vertical

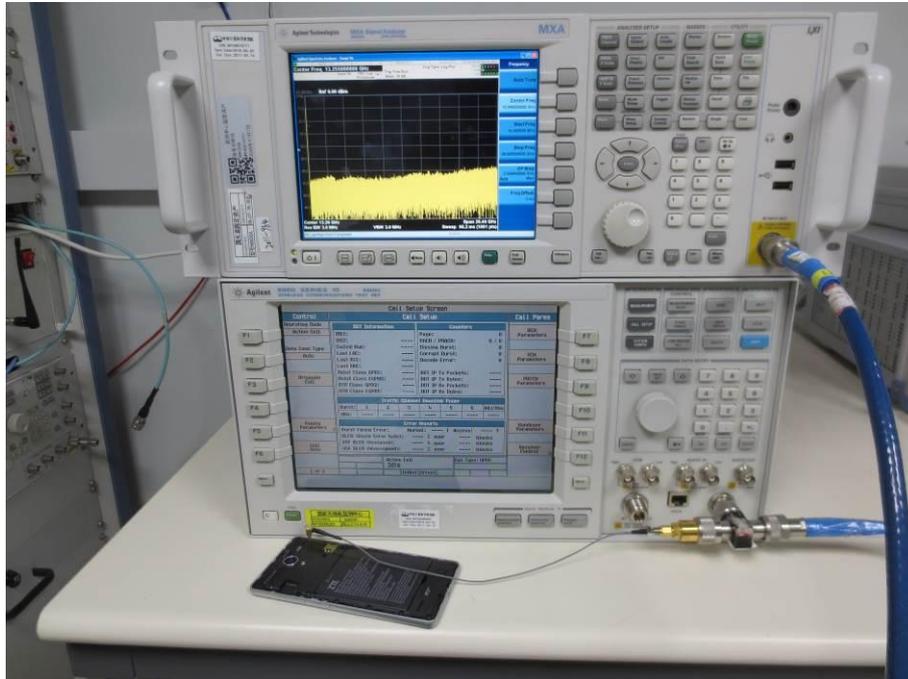
Channel 40390

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2457.01	-52.47	-13	Vertical
2779.83	-52.03	-13	Vertical
3729.34	-44.08	-13	Vertical
6677.39	-43.73	-13	Vertical
9961.64	-39.59	-13	Vertical
17824.33	-34.97	-13	Vertical

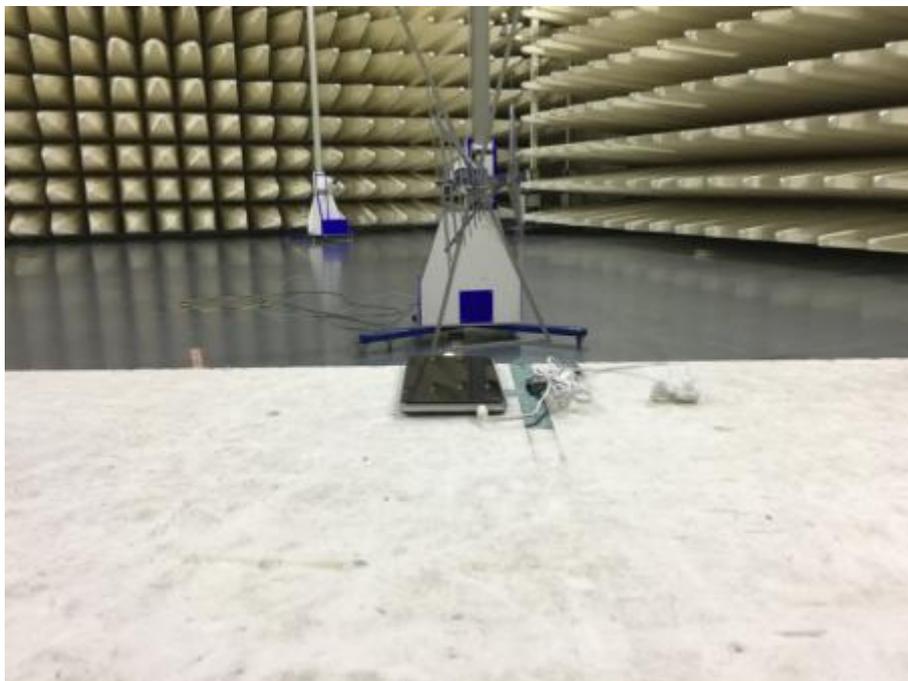
Channel 40615

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2457.68	-52.61	-13	Vertical
2781.56	-52.40	-13	Vertical
3731.40	-45.21	-13	Vertical
6679.69	-43.40	-13	Horizontal
9963.93	-40.10	-13	Vertical
17820.82	-34.97	-13	Vertical

## APPENDIX C –TEST SETUP



Spurious RF Conducted Emissions Test setup



Radiated Spurious Emissions Test setup