

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)		
						QPSK		16-QAM
26	844	26990	10	1	0	0.391	Fig.1	0.391
				1	49	0.391	Fig.2	0.391
				24	12	4.993	Fig.3	4.949
				50	0	9.942	Fig.4	9.942

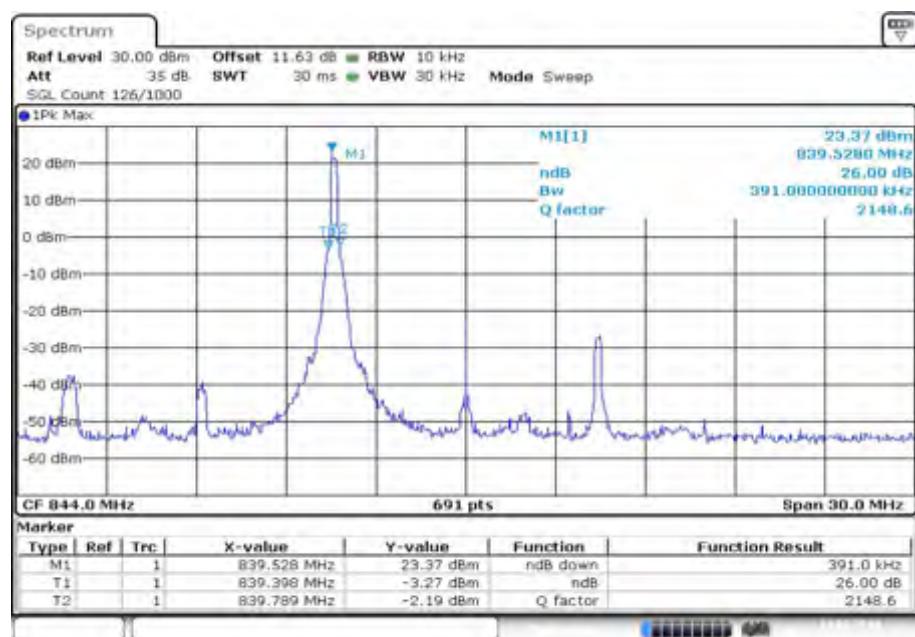


Fig.1

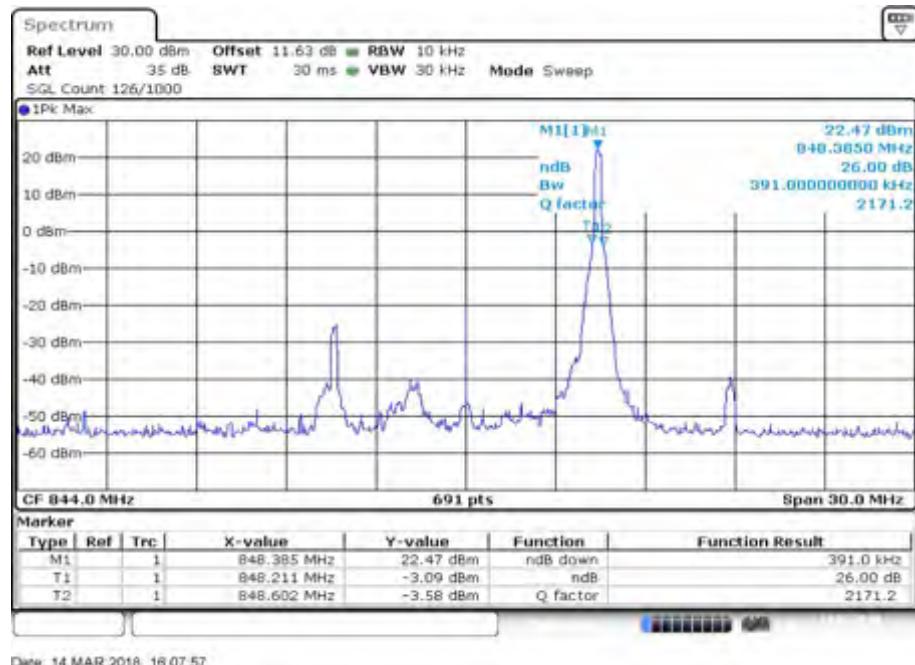


Fig.2

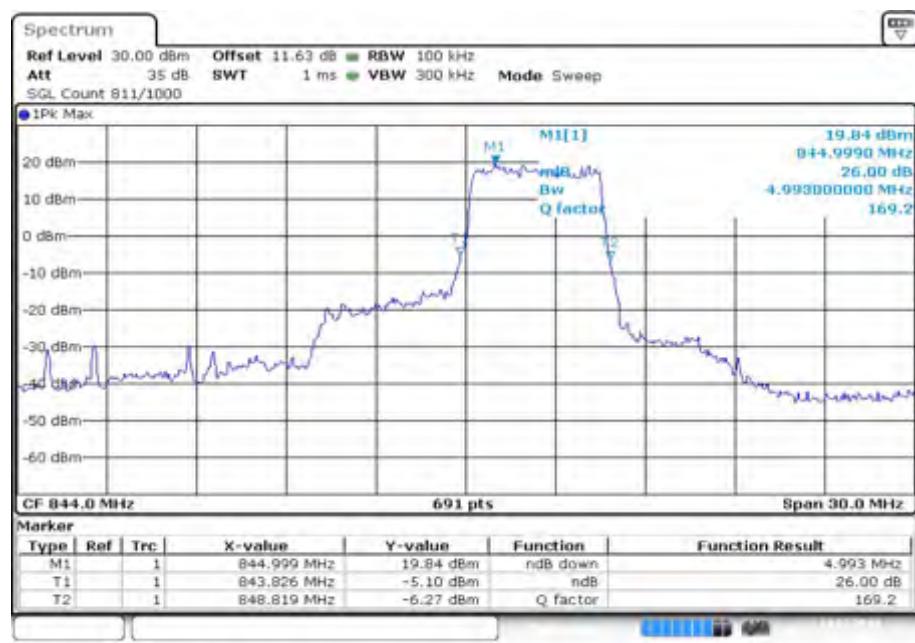


Fig.3

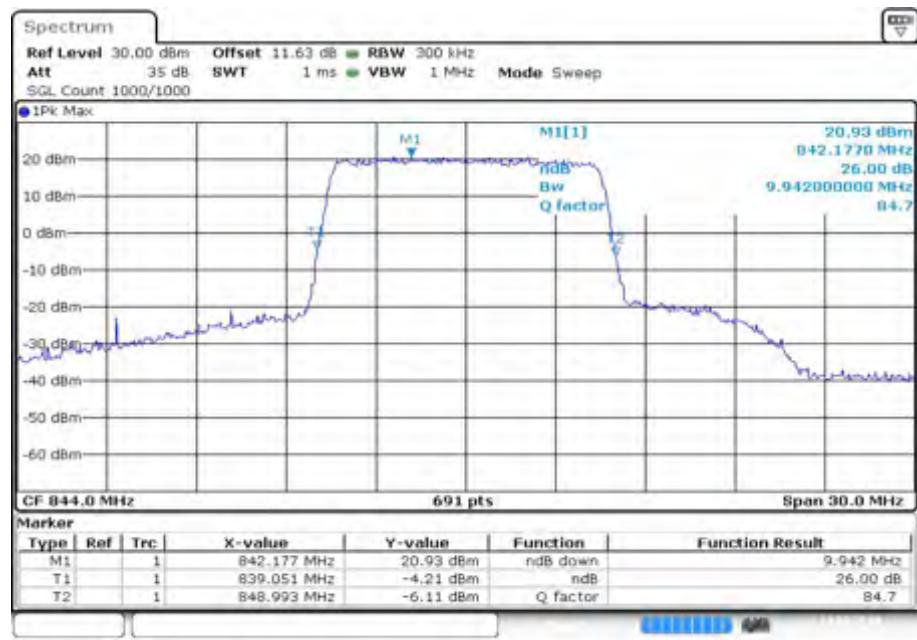


Fig.4

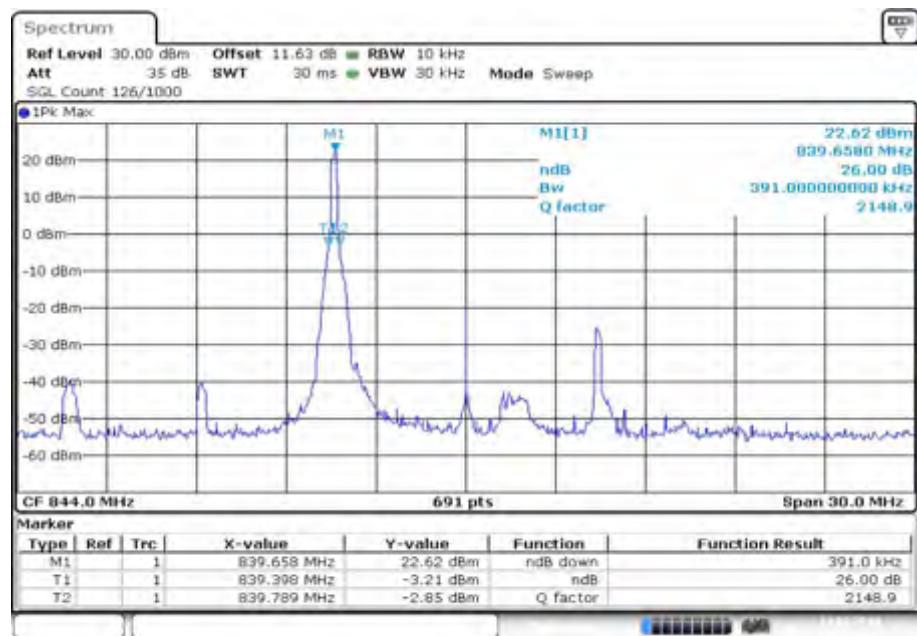


Fig.5

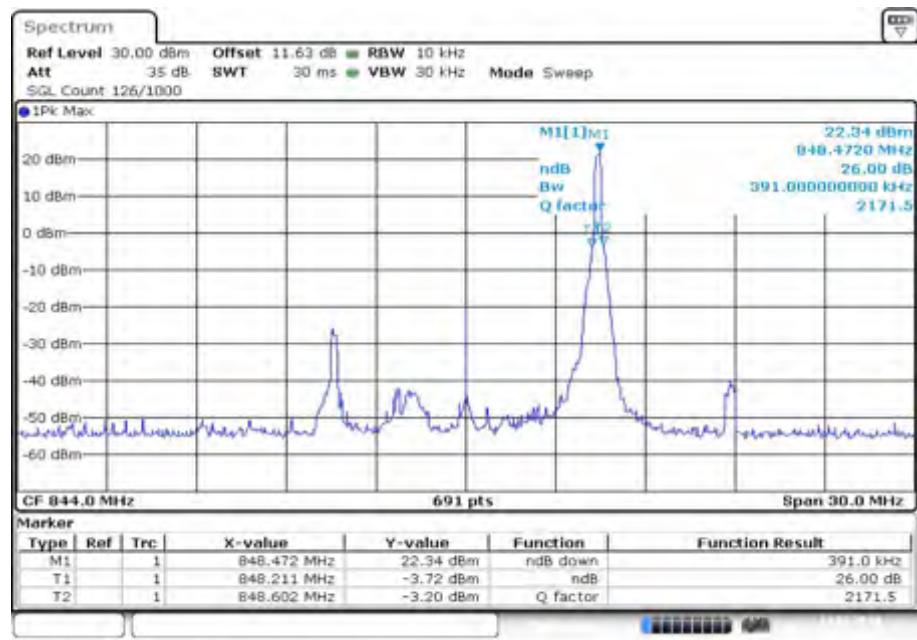


Fig.6

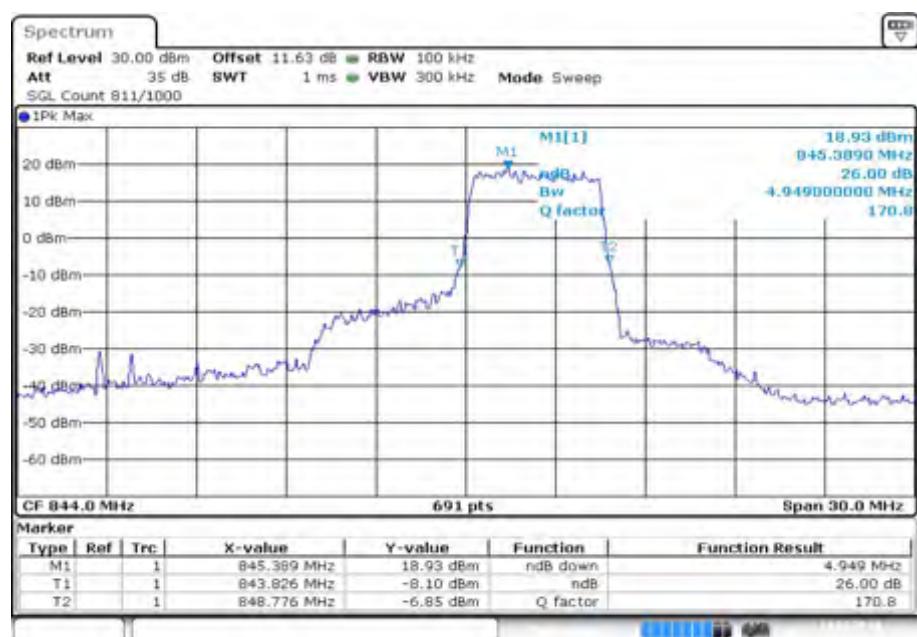


Fig.7

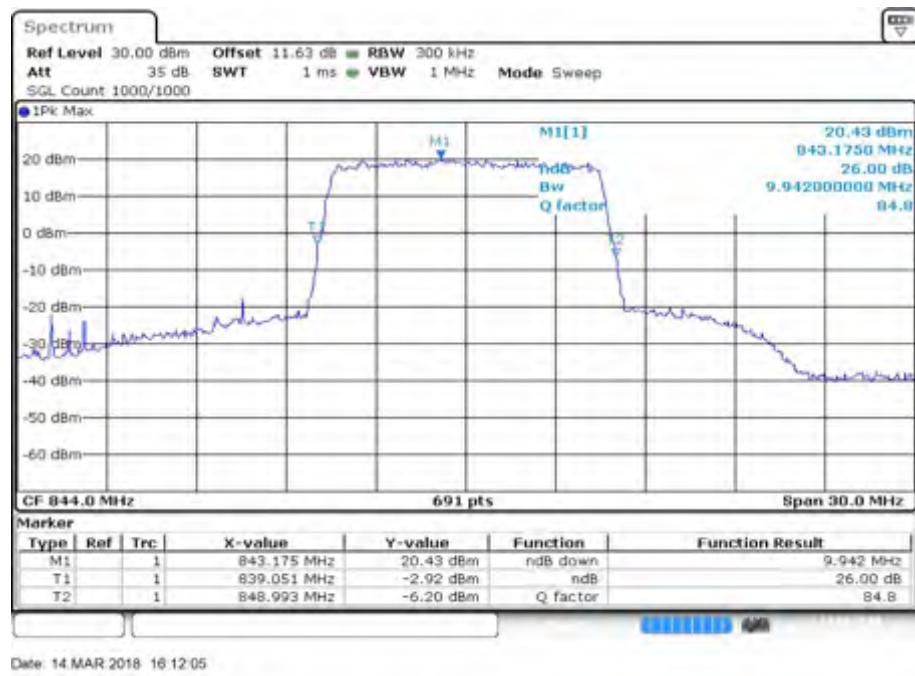


Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)		
						QPSK		16-QAM
26	821.5	26765	15	1	0	0.456	Fig.1	0.391
				1	74	0.391	Fig.2	0.456
				40	18	8.205	Fig.3	8.010
				75	0	14.588	Fig.4	14.783

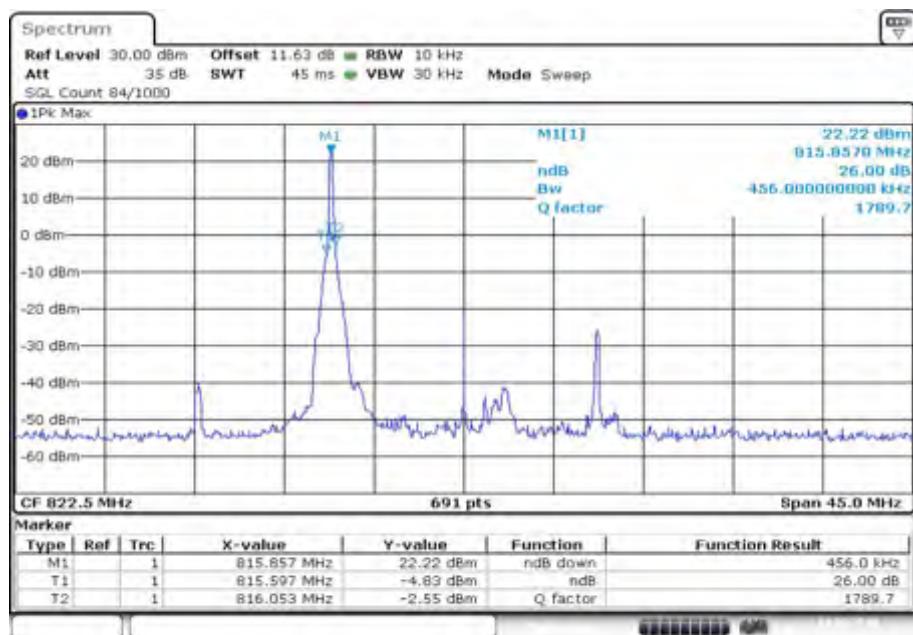


Fig.1

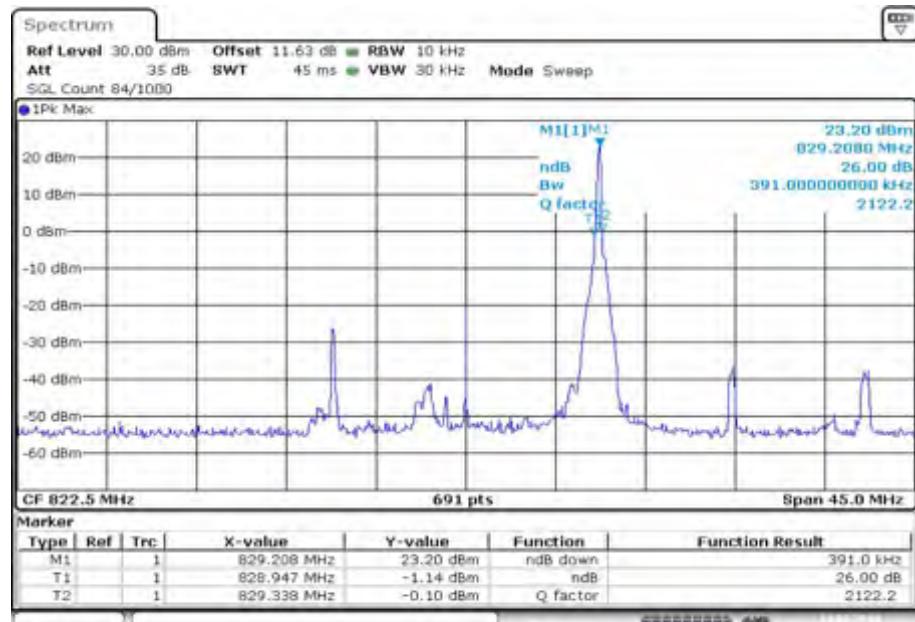


Fig.2

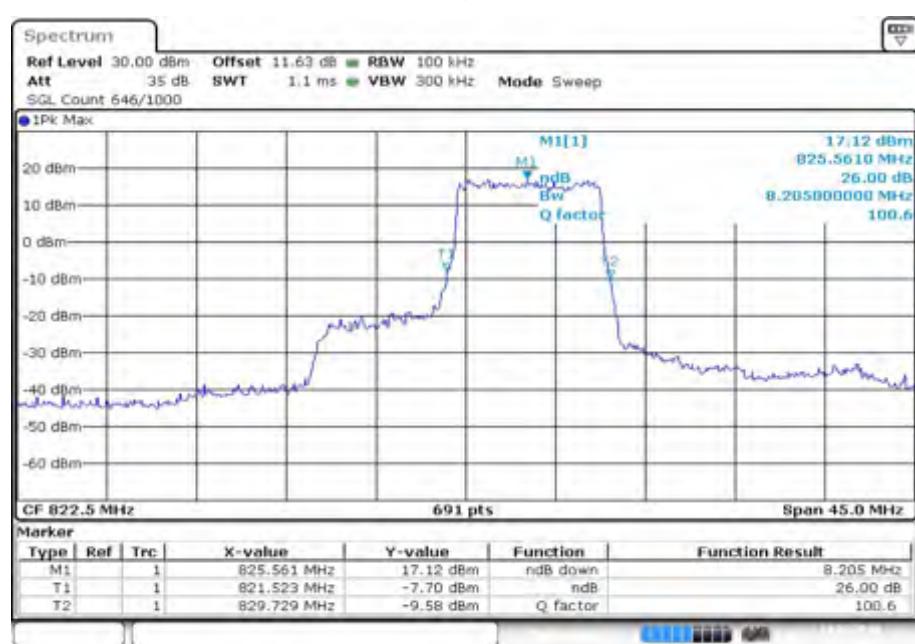


Fig.3



Fig.4

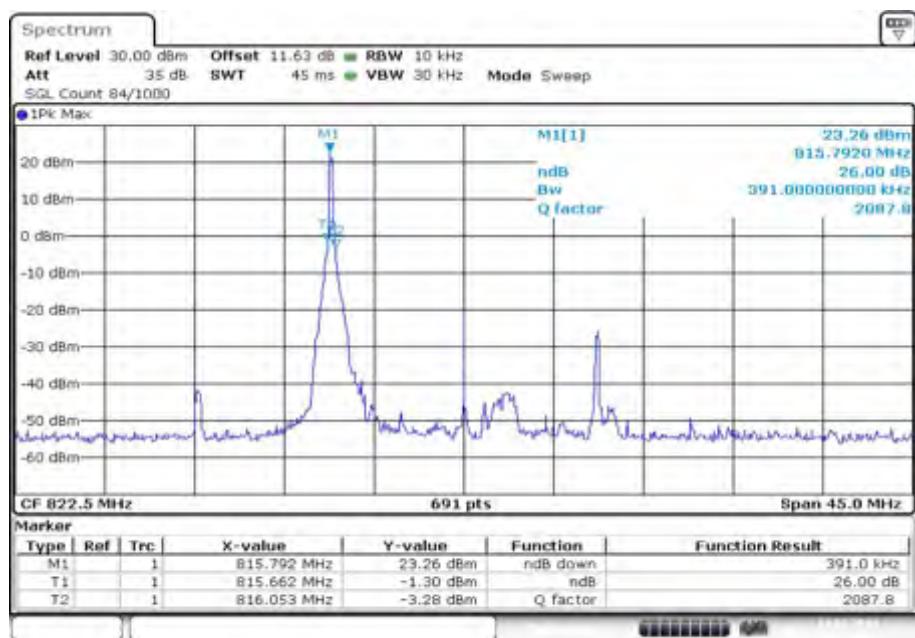


Fig.5

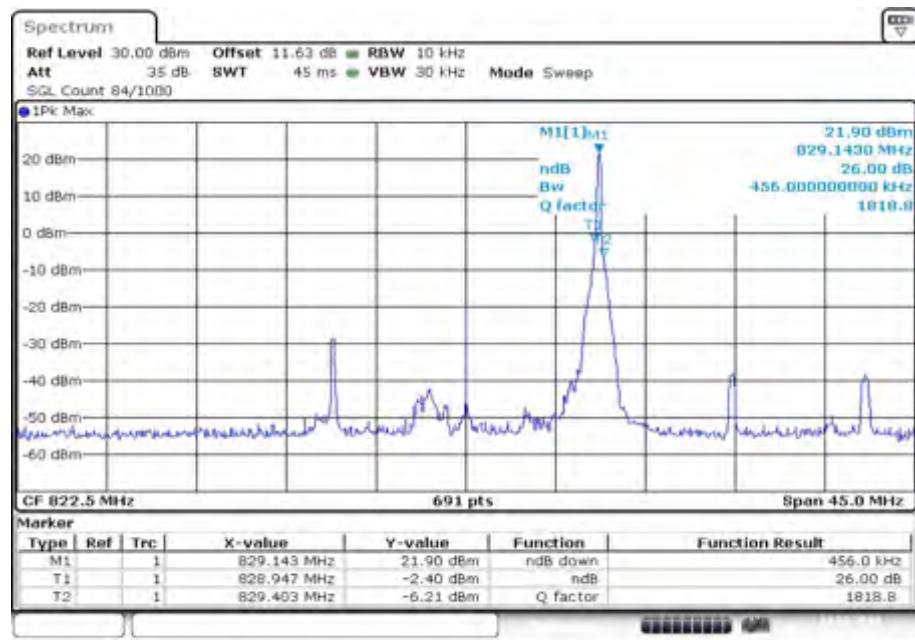


Fig.6

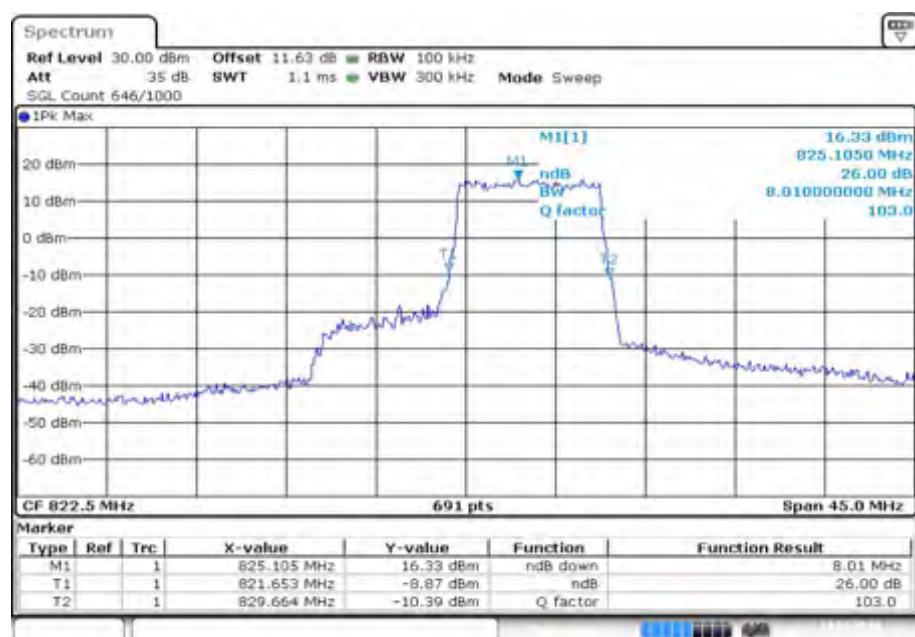


Fig.7



Fig.8

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)		
						QPSK		16-QAM
26	831.5	26865	15	1	0	0.456	Fig.1	0.456
				1	74	0.456	Fig.2	0.456
				40	18	8.075	Fig.3	8.075
				75	0	14.653	Fig.4	14.783

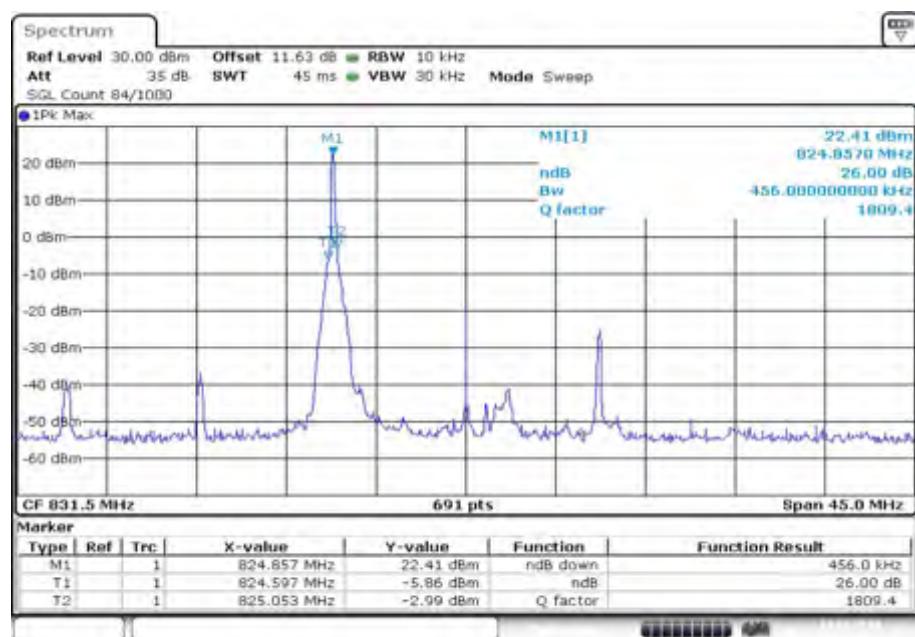


Fig.1

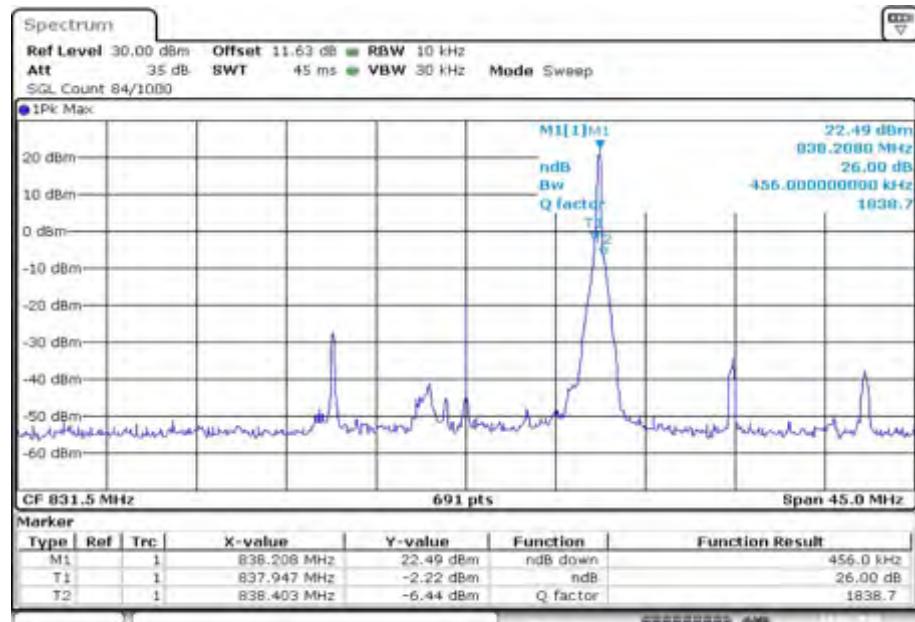


Fig.2



Fig.3

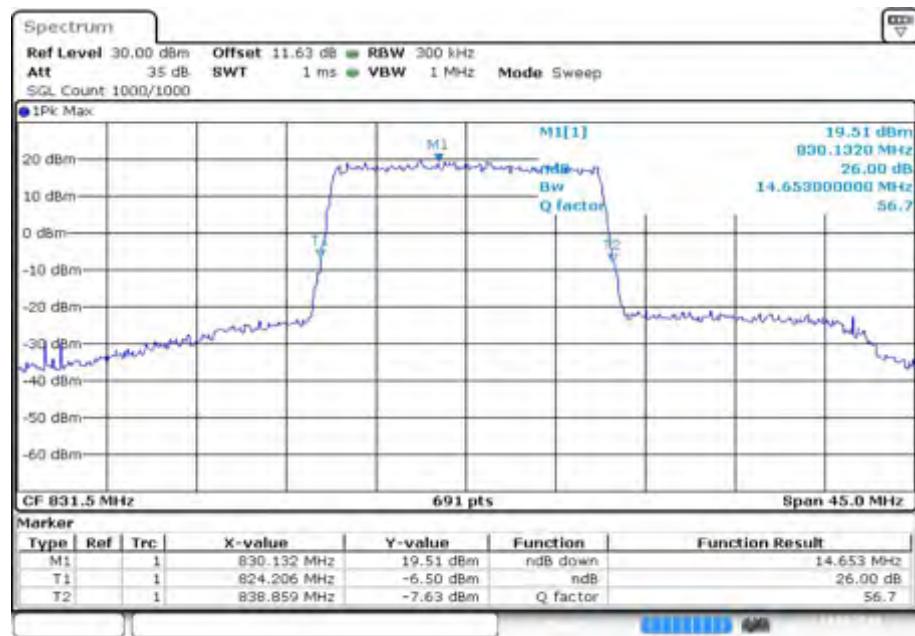


Fig.4

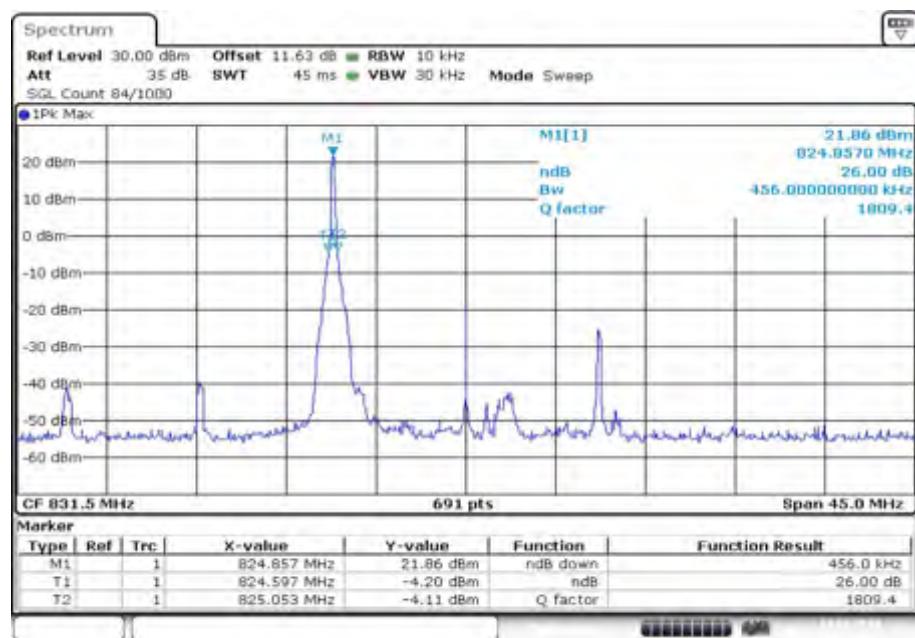


Fig.5

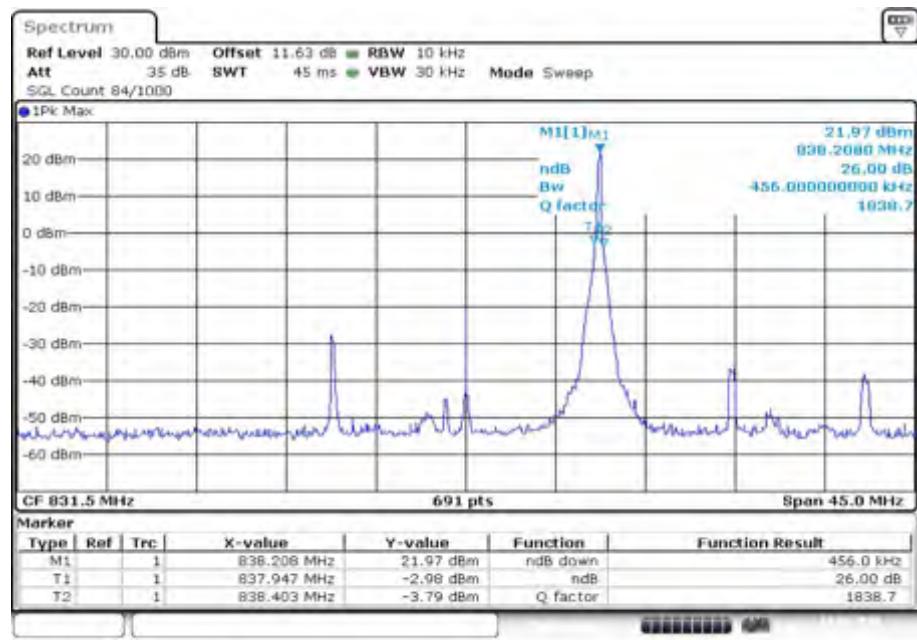


Fig.6

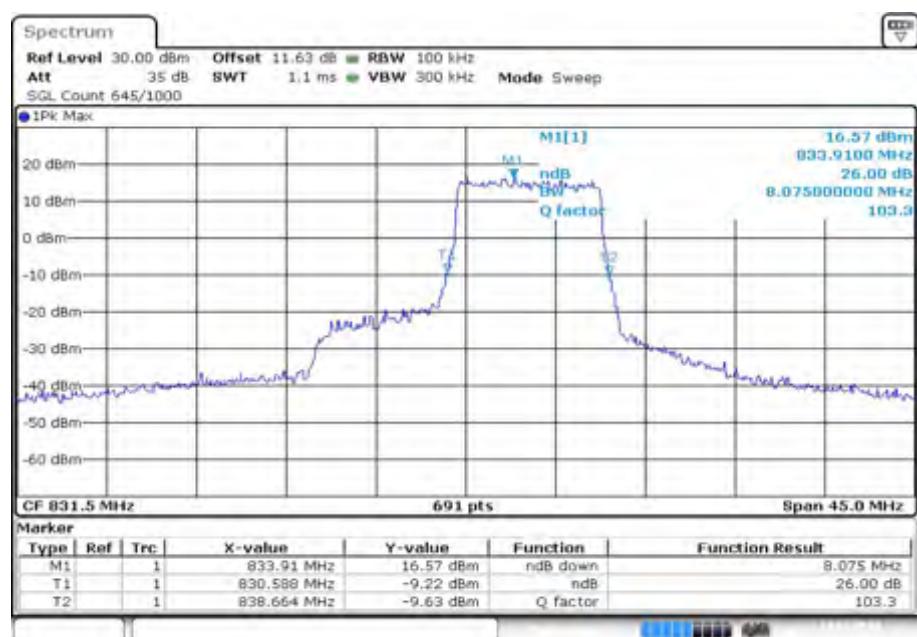


Fig.7

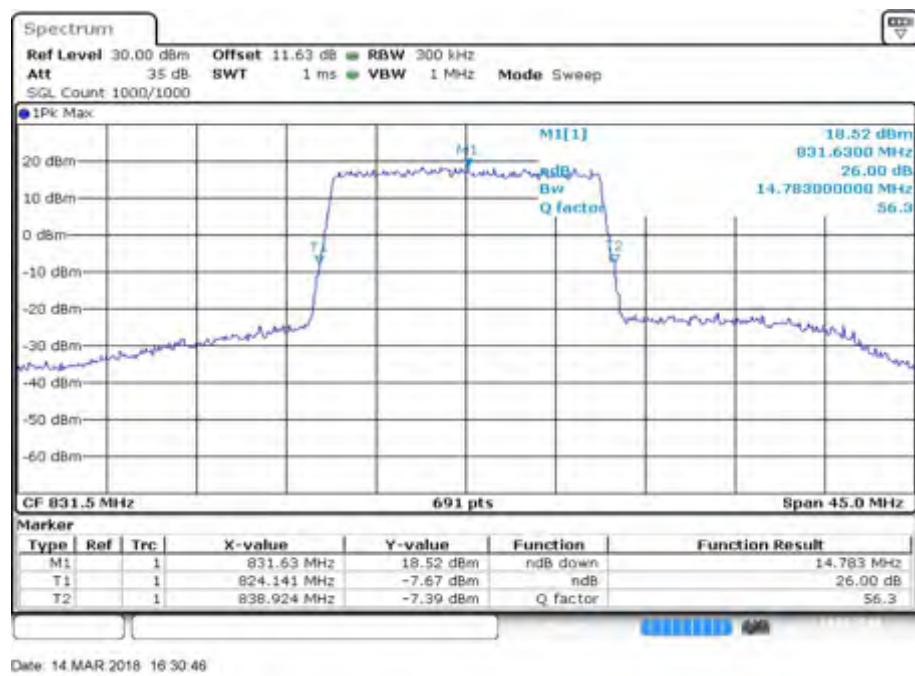


Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)		
						QPSK		16-QAM
26	841.5	26965	15	1	0	0.456	Fig.1	0.521
				1	74	0.456	Fig.2	0.521
				40	18	7.945	Fig.3	8.075
				75	0	14.783	Fig.4	14.653

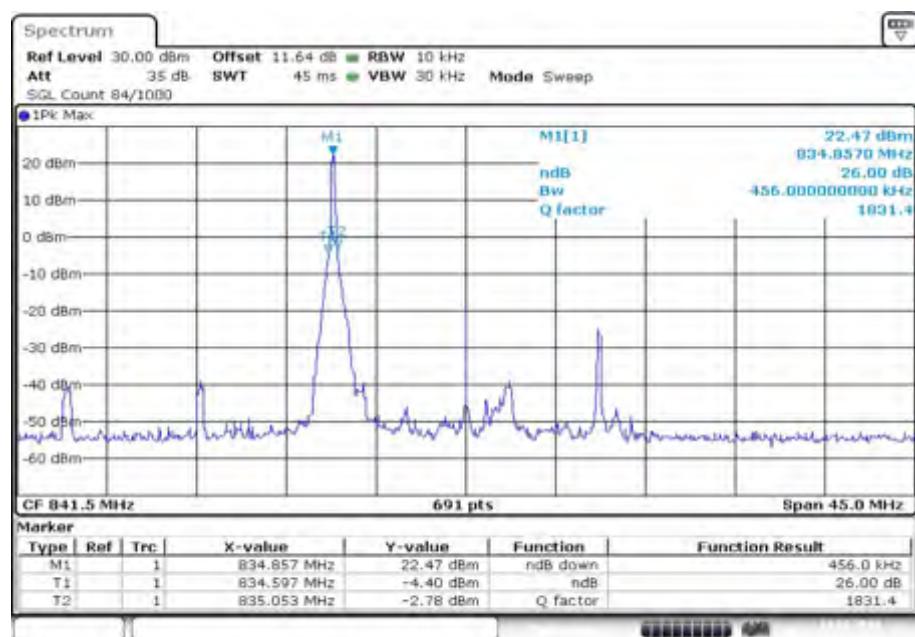


Fig.1

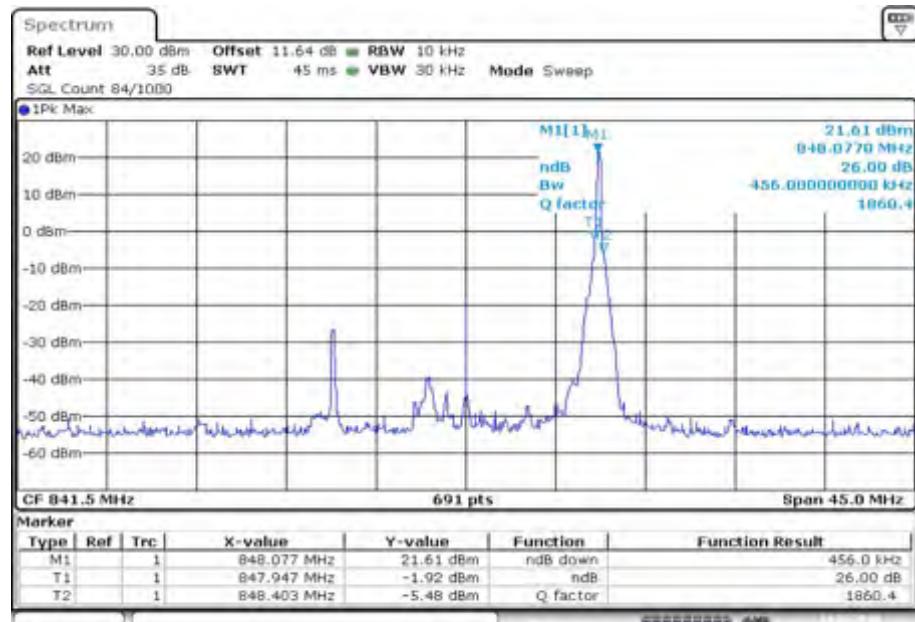


Fig.2

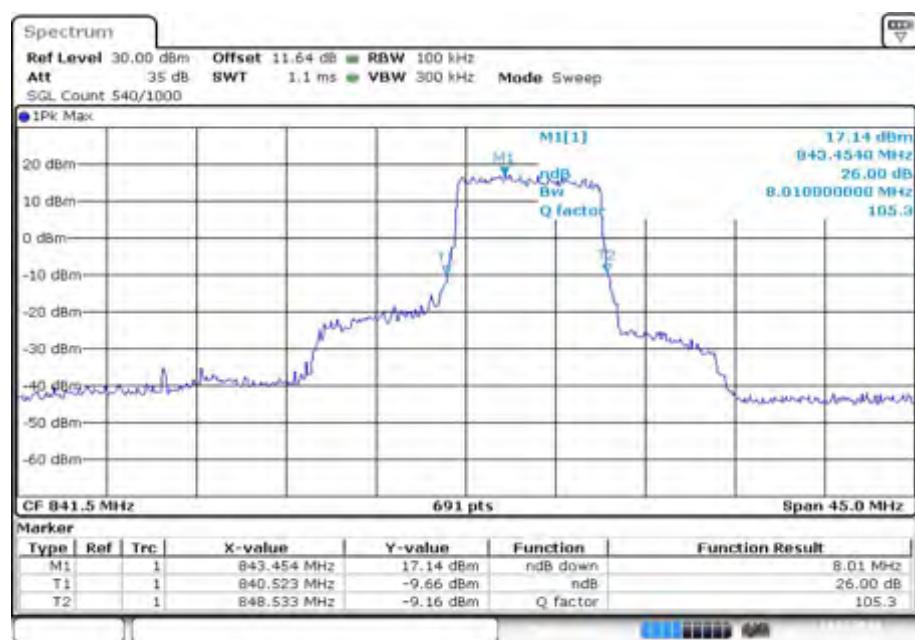


Fig.3



Fig.4

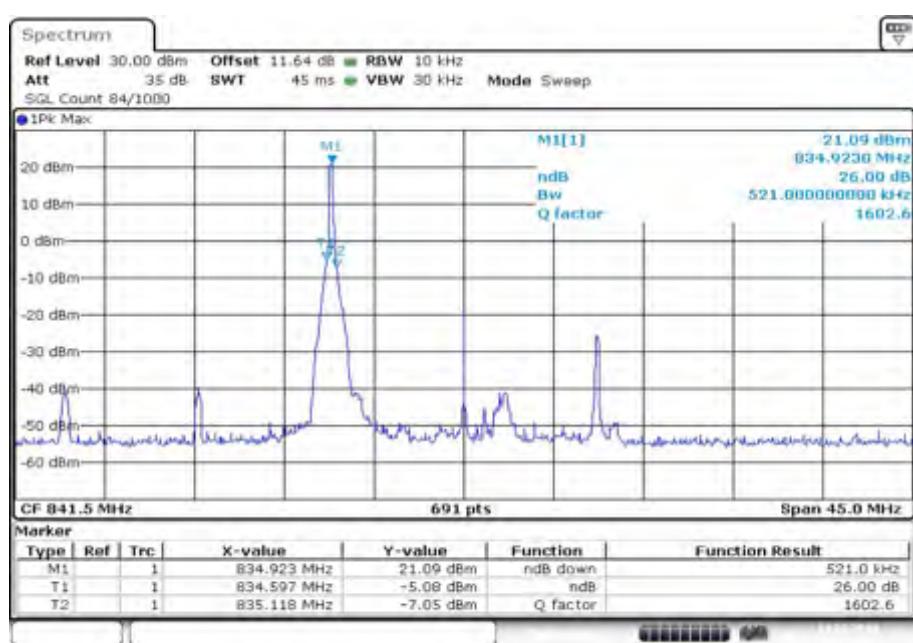


Fig.5

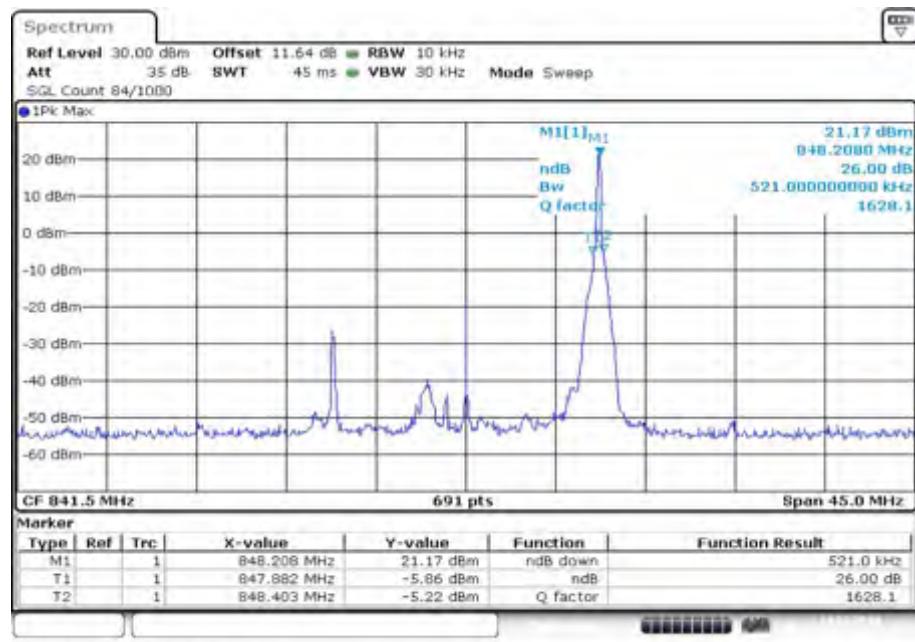


Fig.6



Fig.7

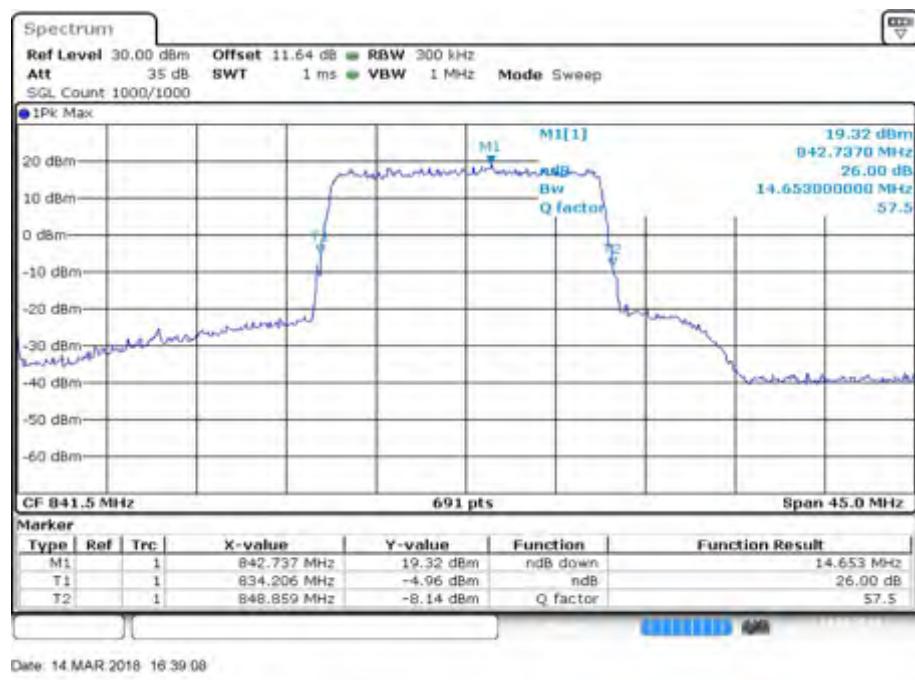


Fig.8

Note: Expanded measurement uncertainty is  $U = 3428\text{Hz}$ ,  $k = 2$

## A.6 BAND EDGE COMPLIANCE

### Reference

FCC: CFR Part 2.1051, 90.691.

### A.6.1 Measurement limit

On any frequency outside frequency band of the US Cellular/PCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least  $43+10\log(P)$  dB. For all power levels +30 dBm to 0 dBm, this becomes a constant specification limit of -13 dBm. According to KDB 971168 D01 6.0, a relaxation of the reference bandwidth is often provided for measurements within a specified frequency range at the edge of the authorized frequency block/band. This is often implemented by permitting the use of a narrower RBW (typically limited to a minimum RBW of 1% of the OBW) for measuring the out-of-band emissions without a requirement to integrate the result over the full reference bandwidth.

### A.6.2 Measurement result

#### LTE Band 14

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot	
						QPSK	16-QAM
14	795.5	23355	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

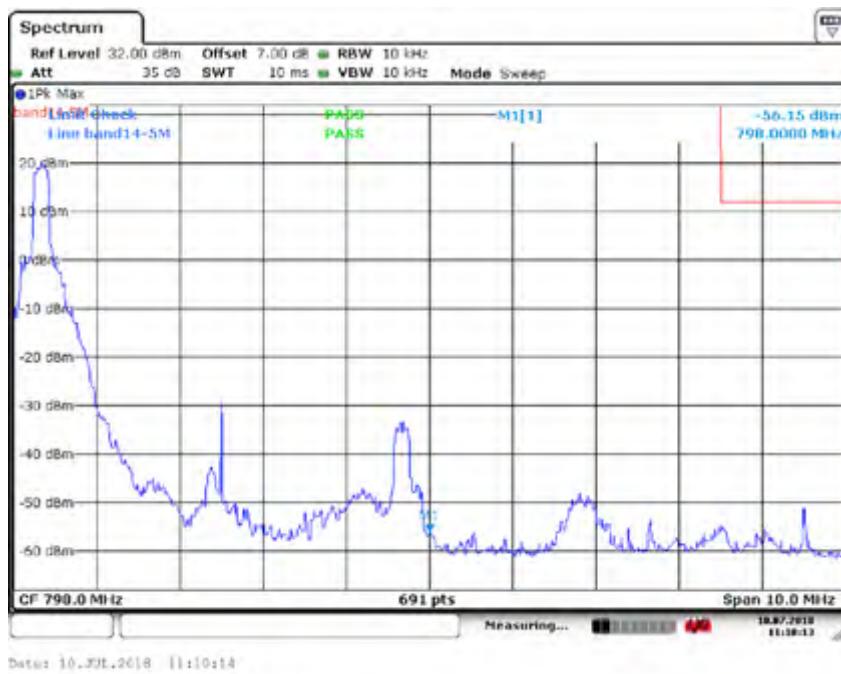


Fig.1

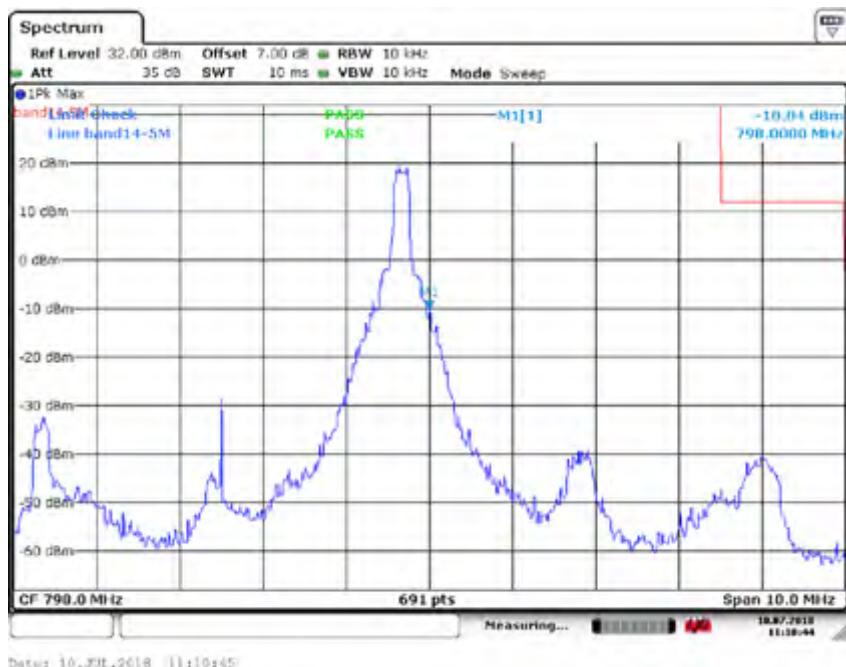


Fig.2

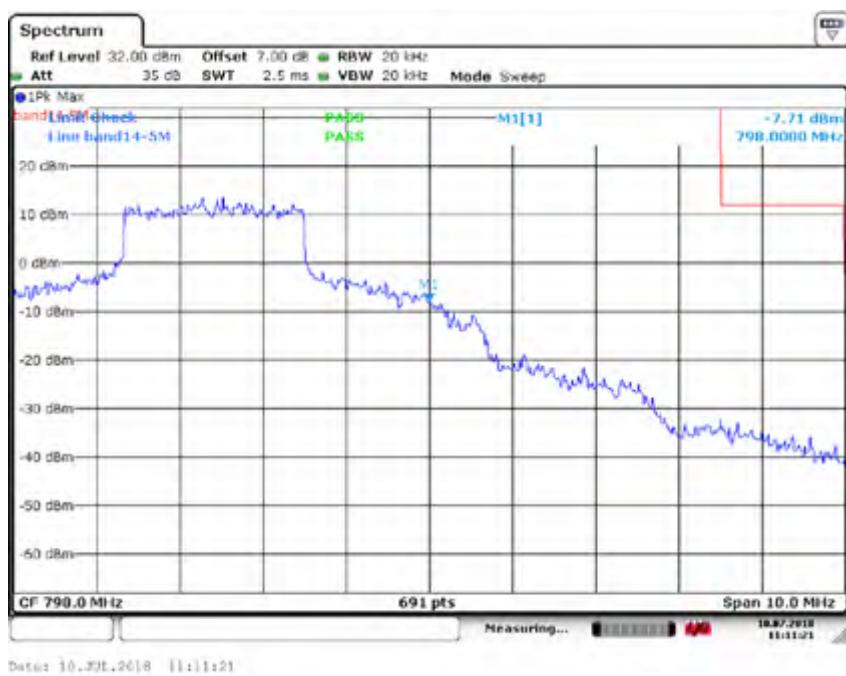


Fig.3

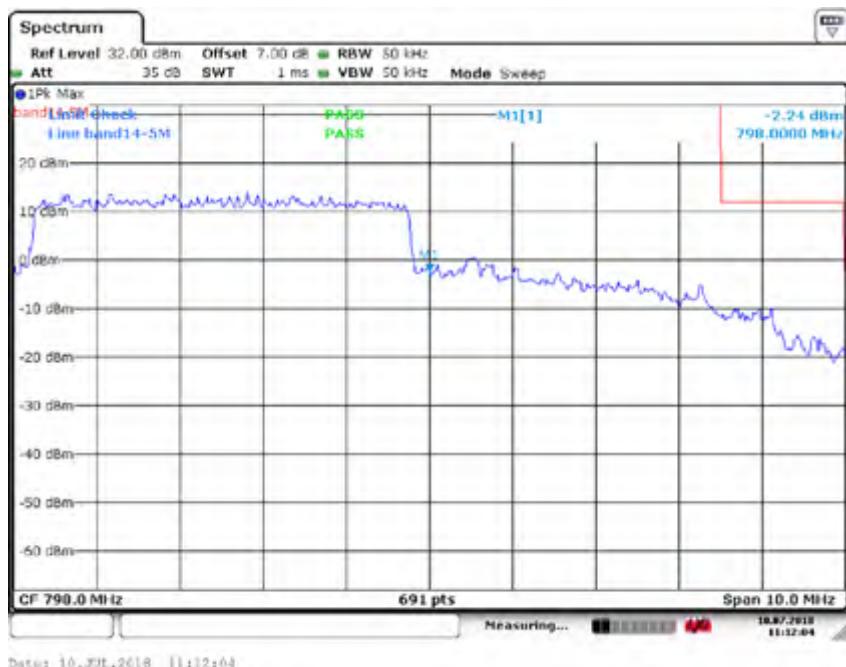


Fig.4

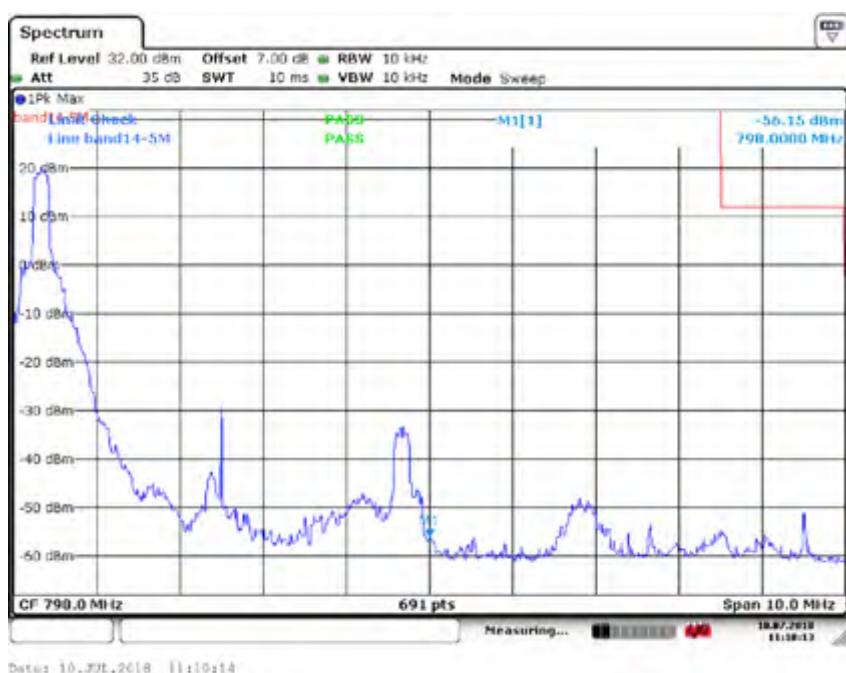


Fig.5

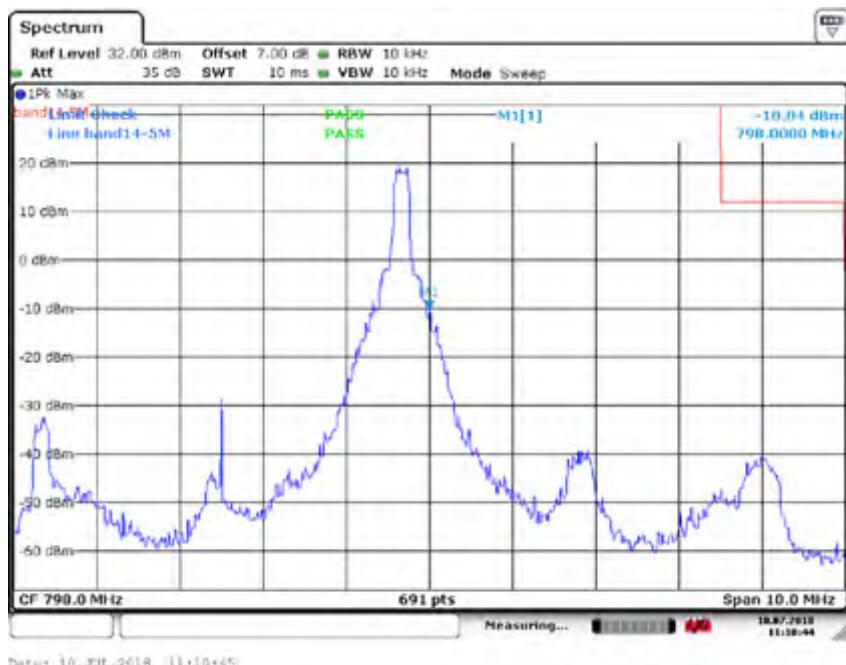


Fig.6

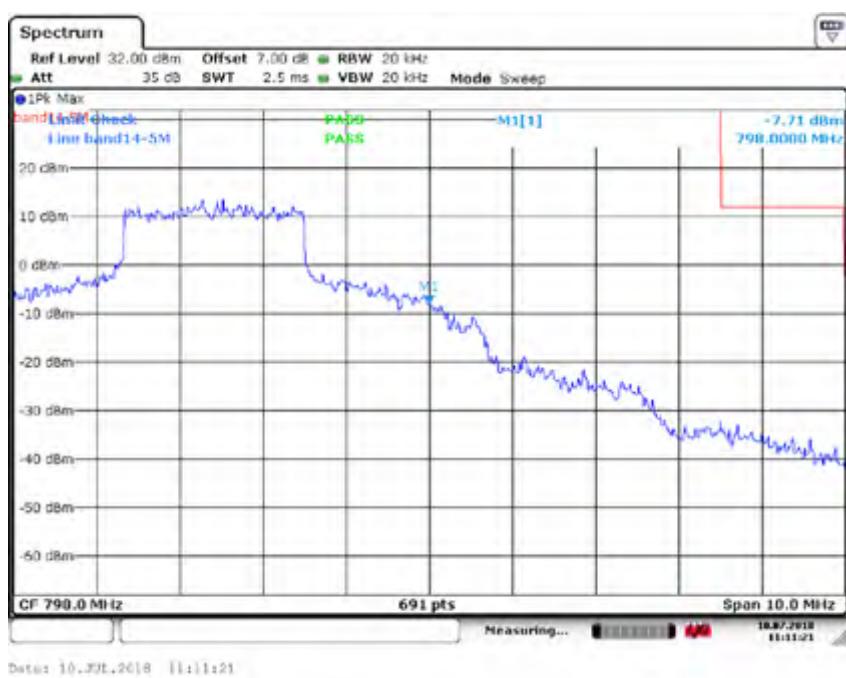


Fig.7

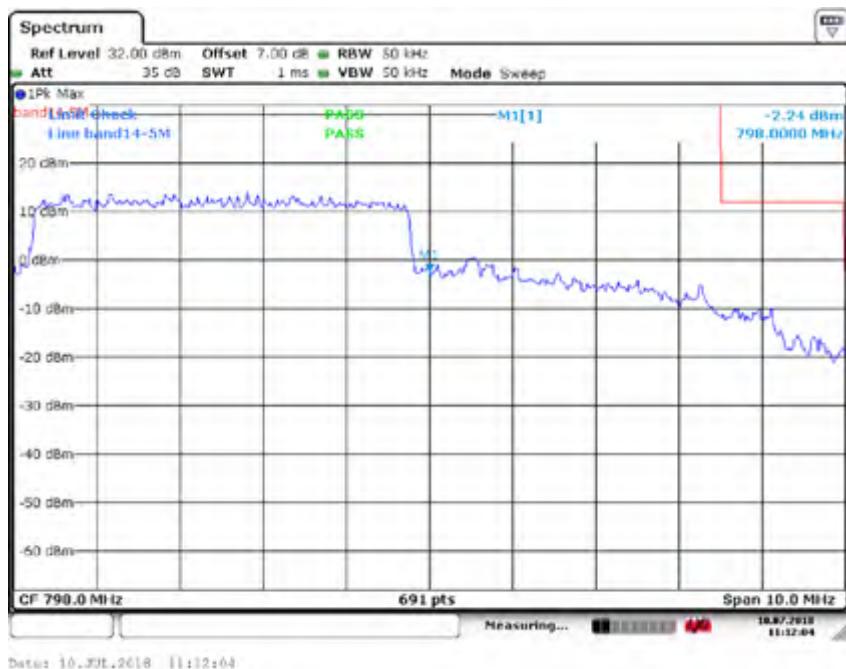


Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band EdgesPlot	
						QPSK	16-QAM
14	790.5	23305	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

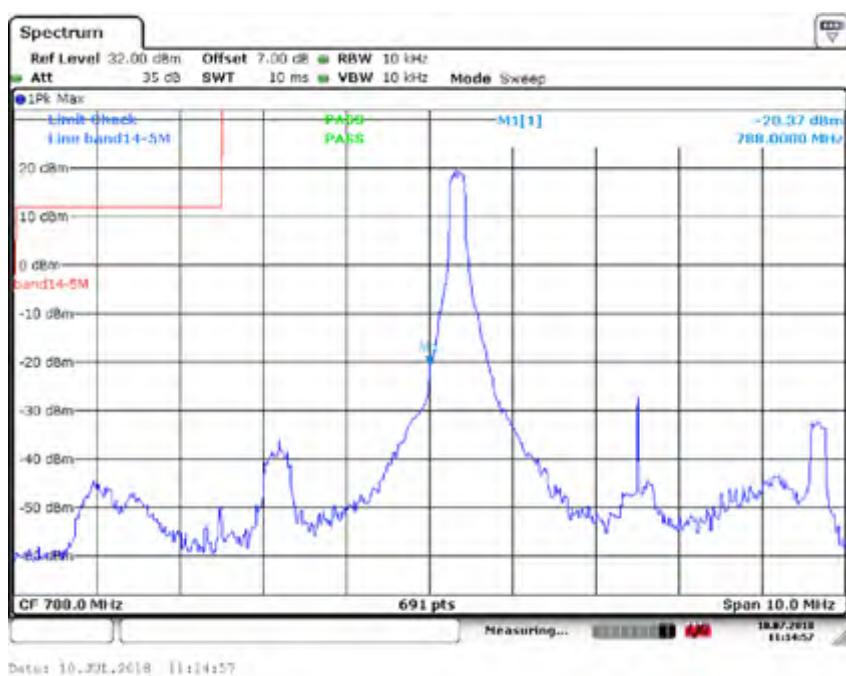


Fig.1

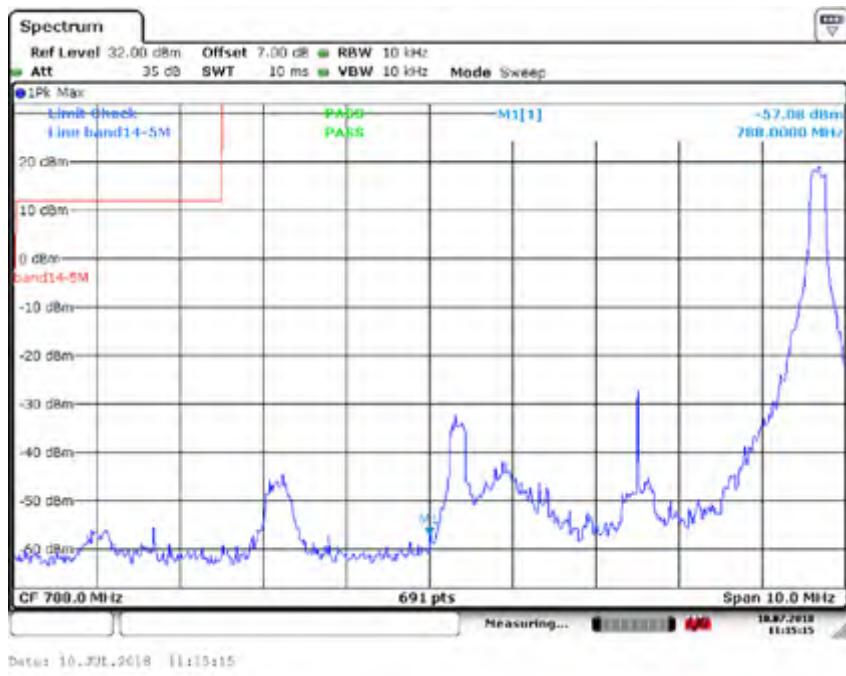


Fig.2

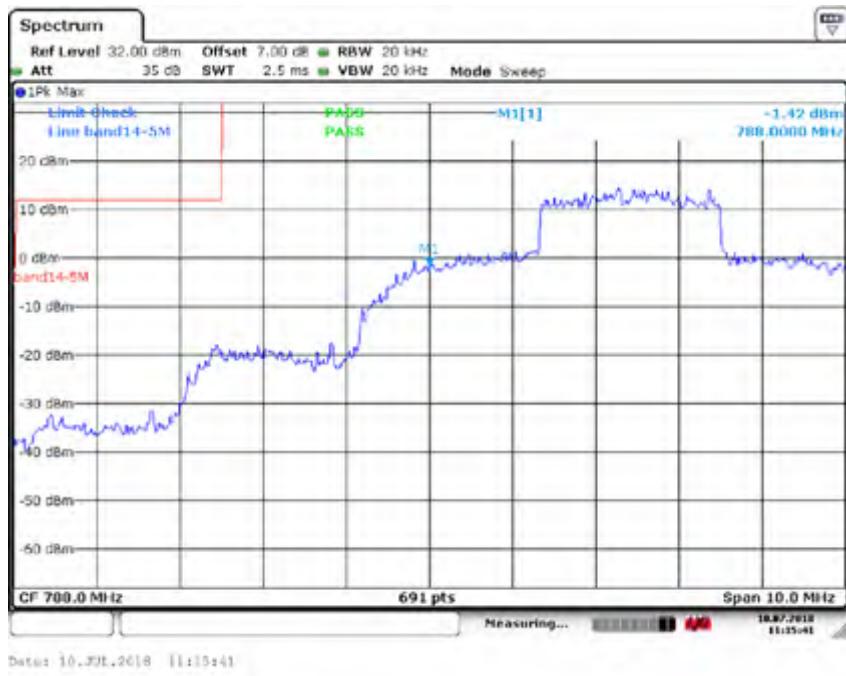


Fig.3

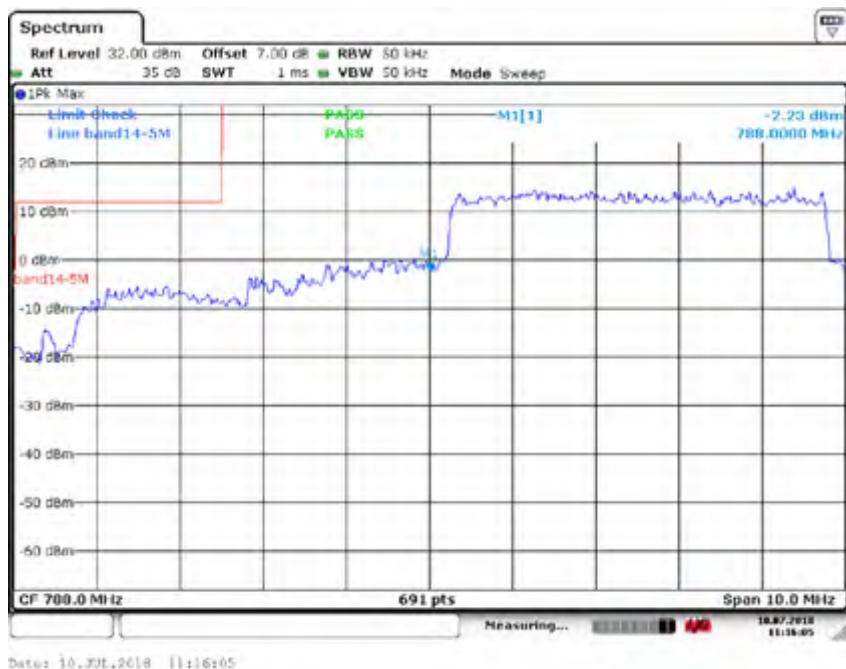


Fig.4

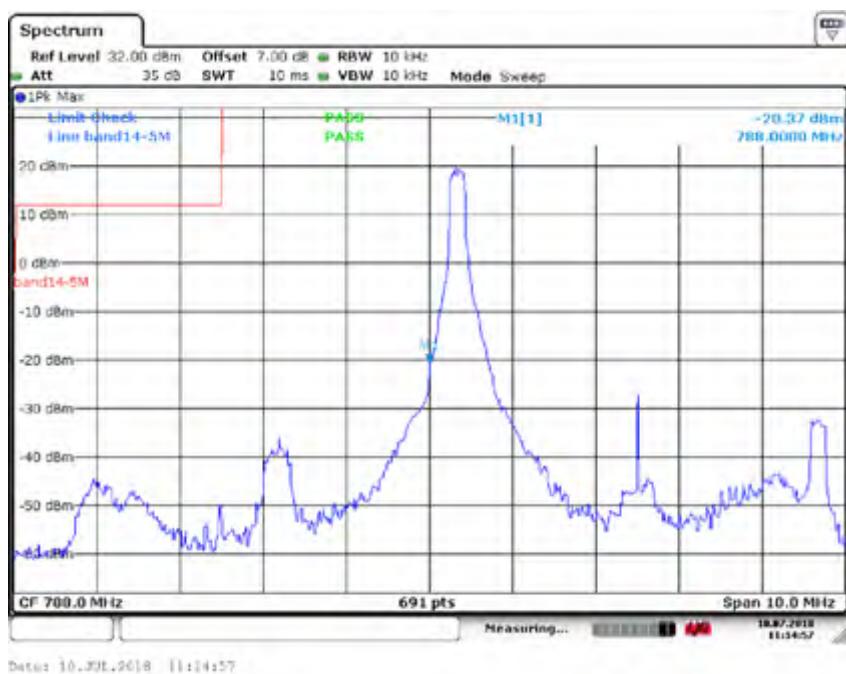


Fig.5

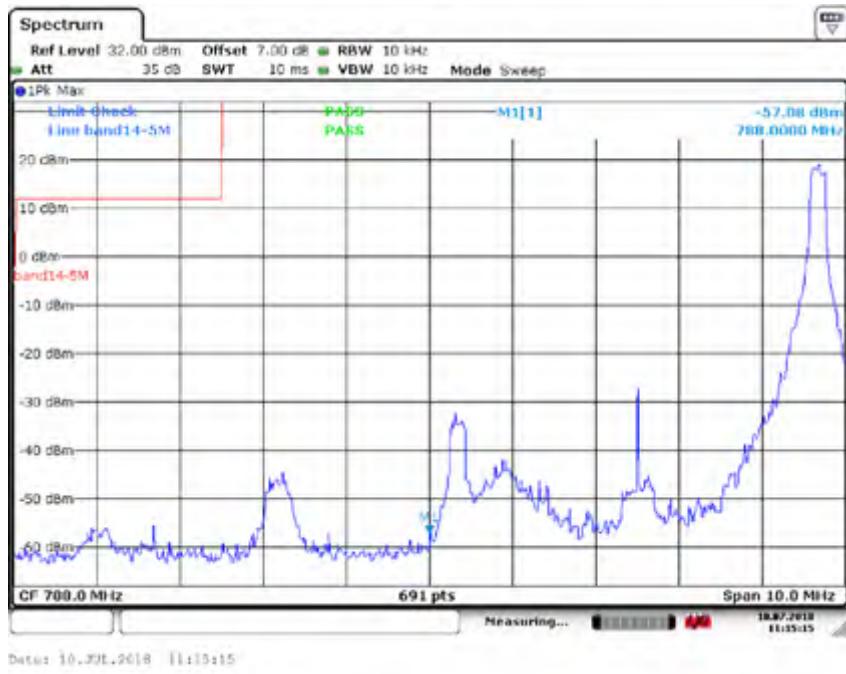


Fig.6

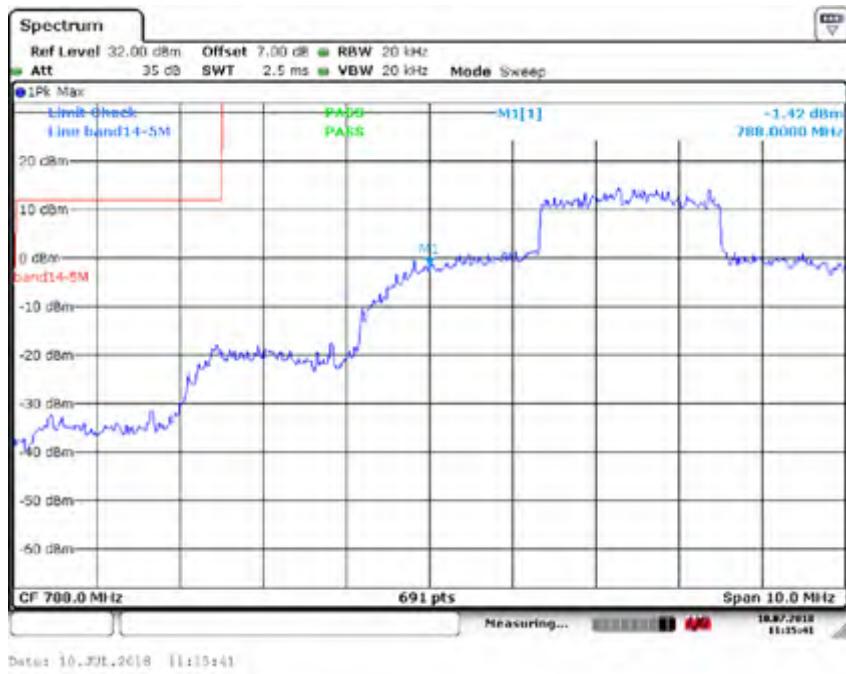


Fig.7

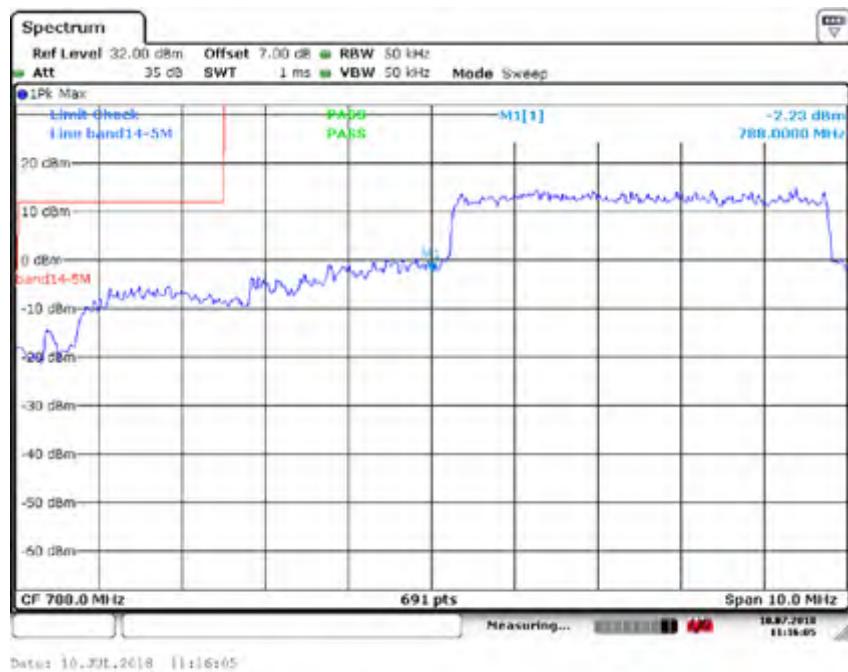


Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band EdgesPlot	
						QPSK	16-QAM
14	793	23330	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

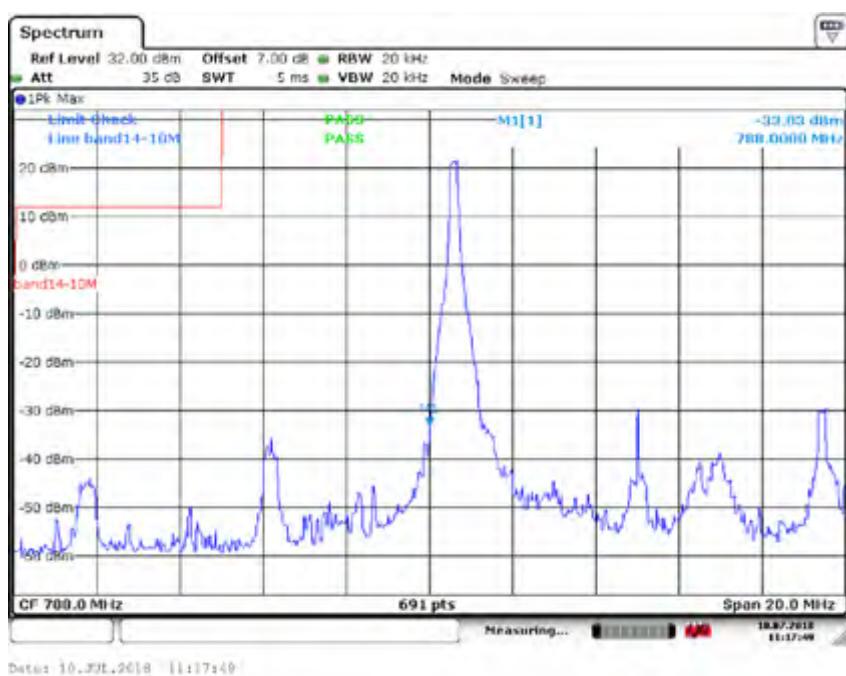


Fig.1

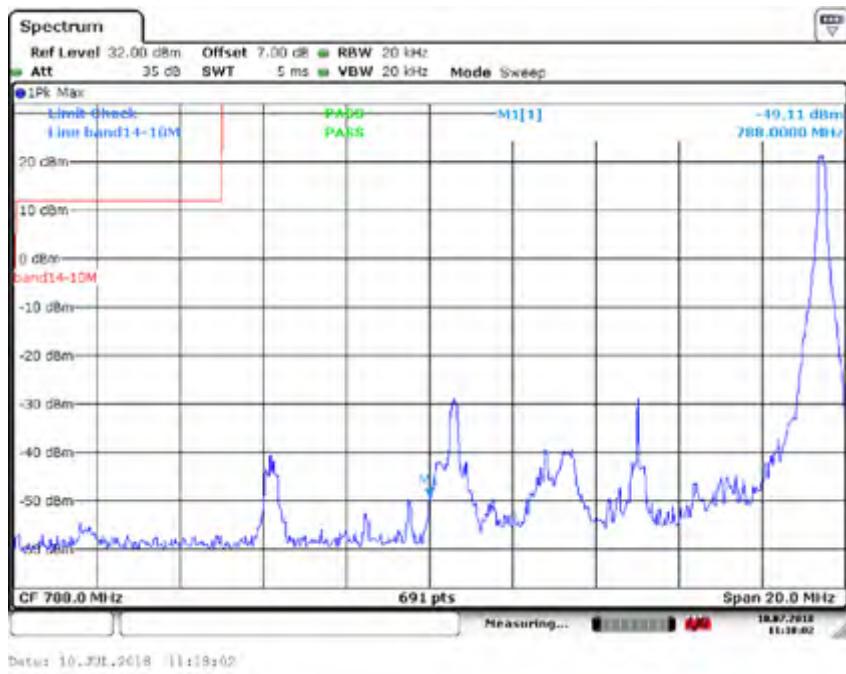


Fig.2

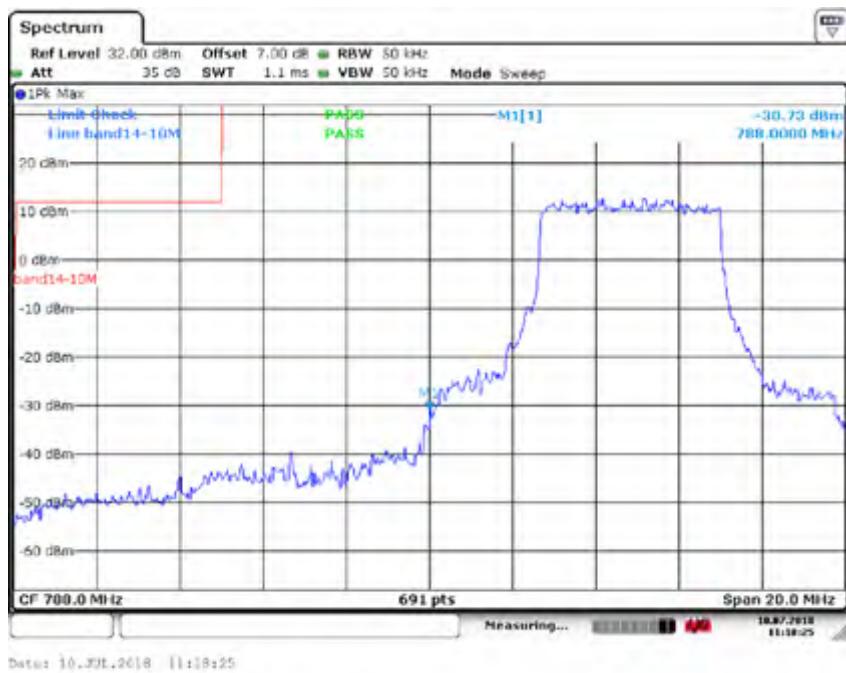


Fig.3

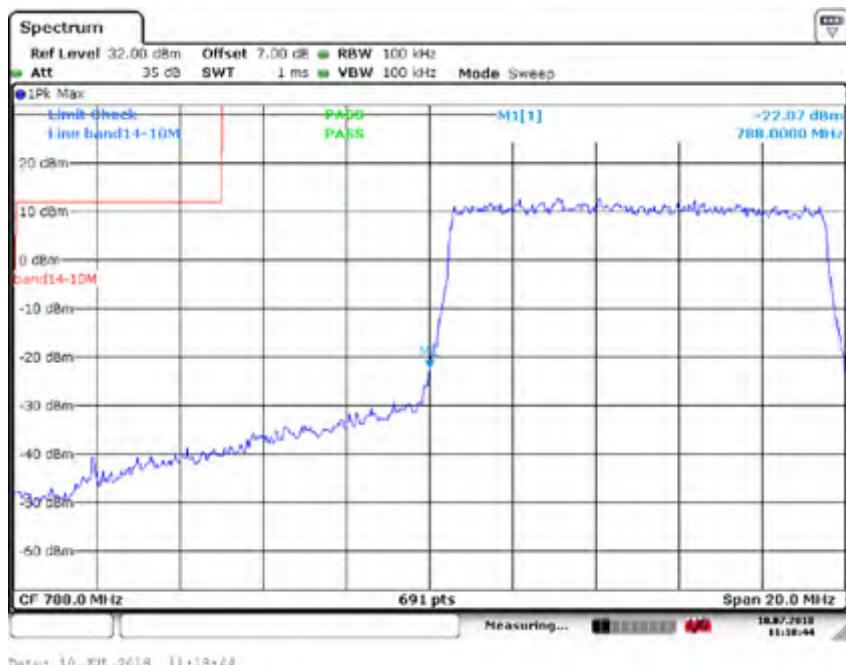


Fig.4

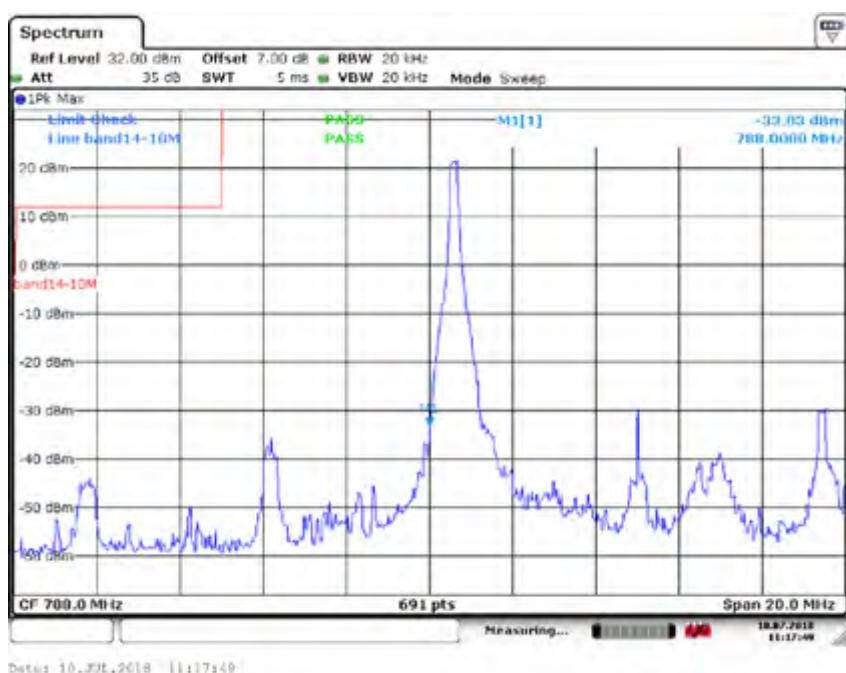


Fig.5

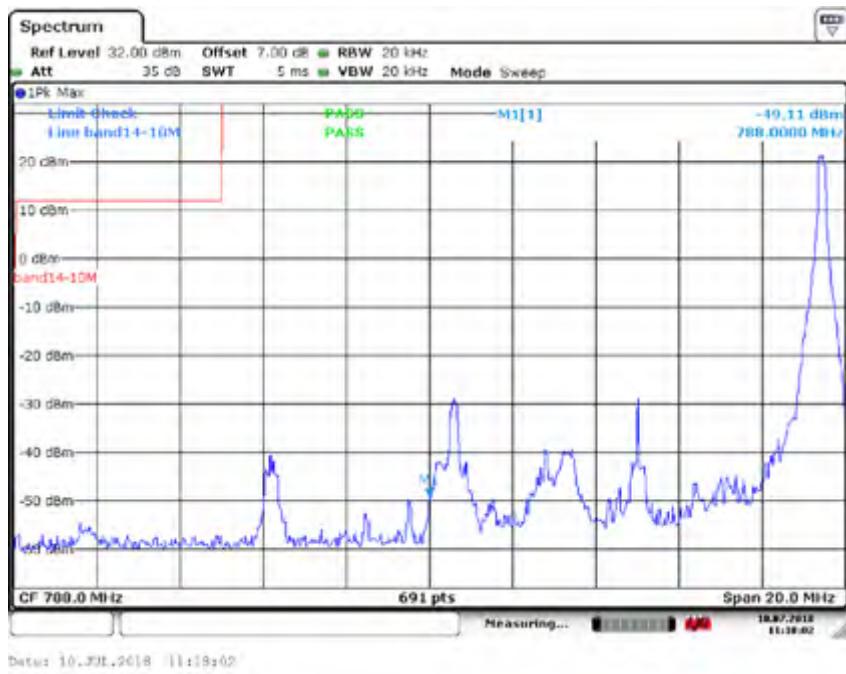


Fig.6

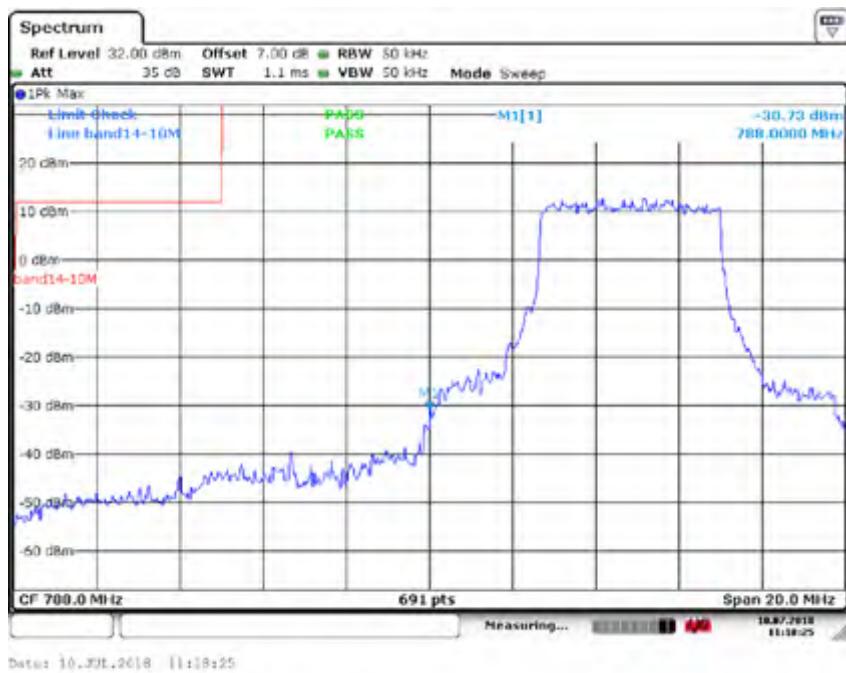


Fig.7

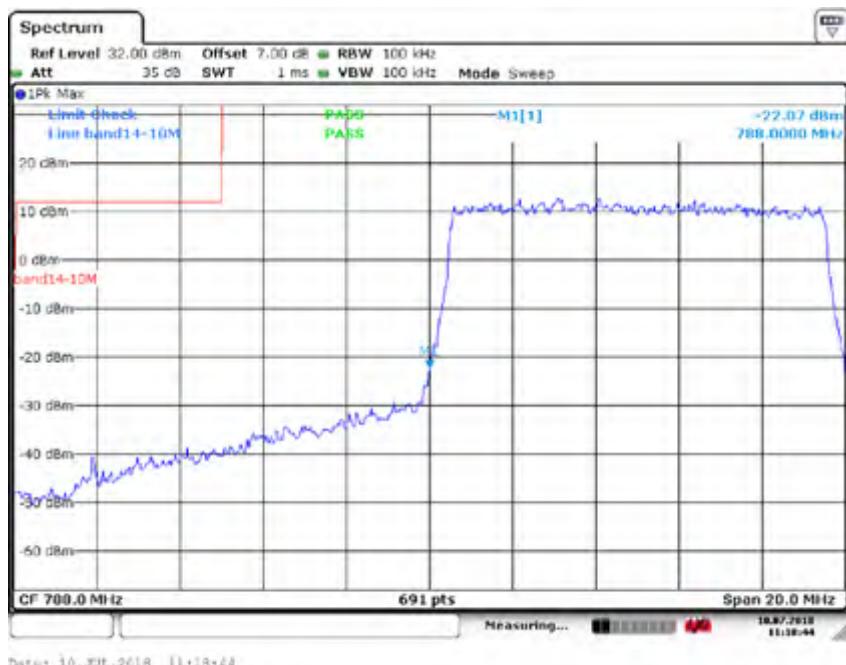


Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot	
						QPSK	16-QAM
14	793	23330	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

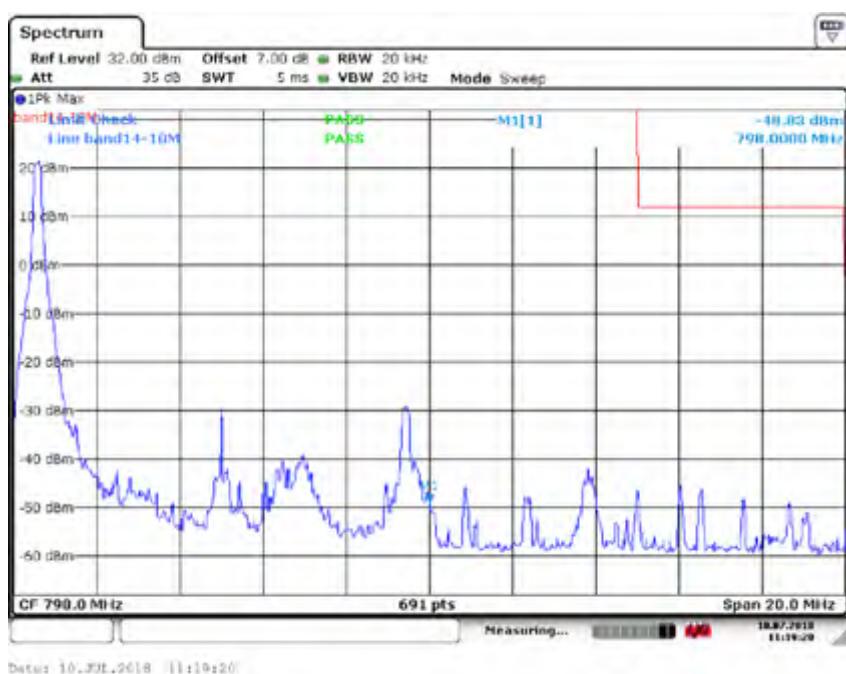


Fig.1

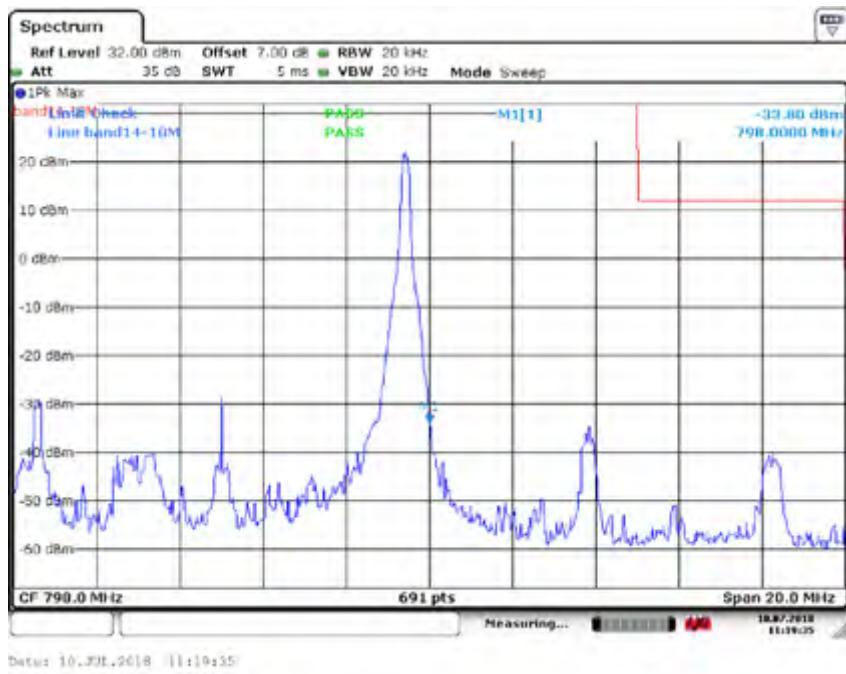


Fig.2

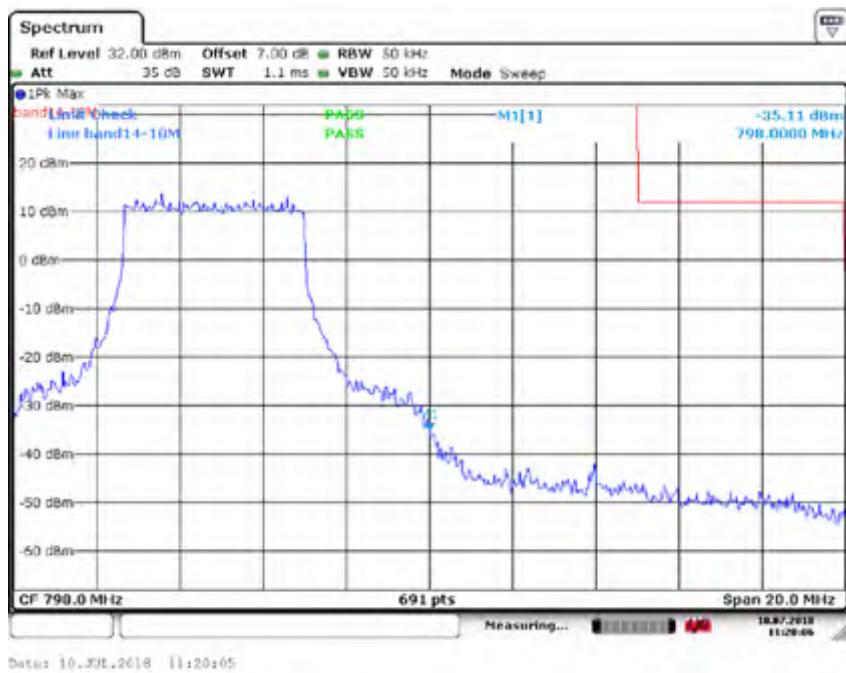


Fig.3

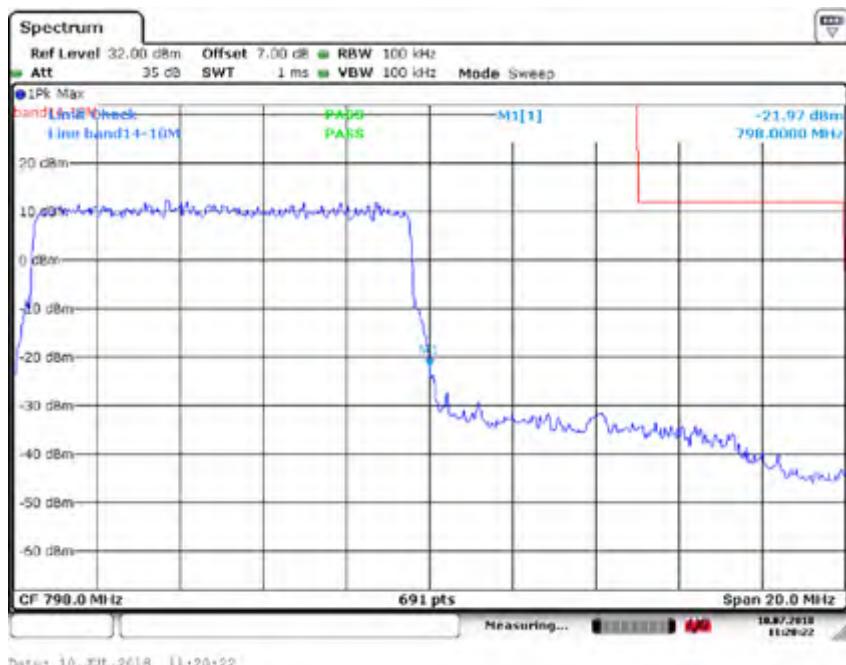


Fig.4

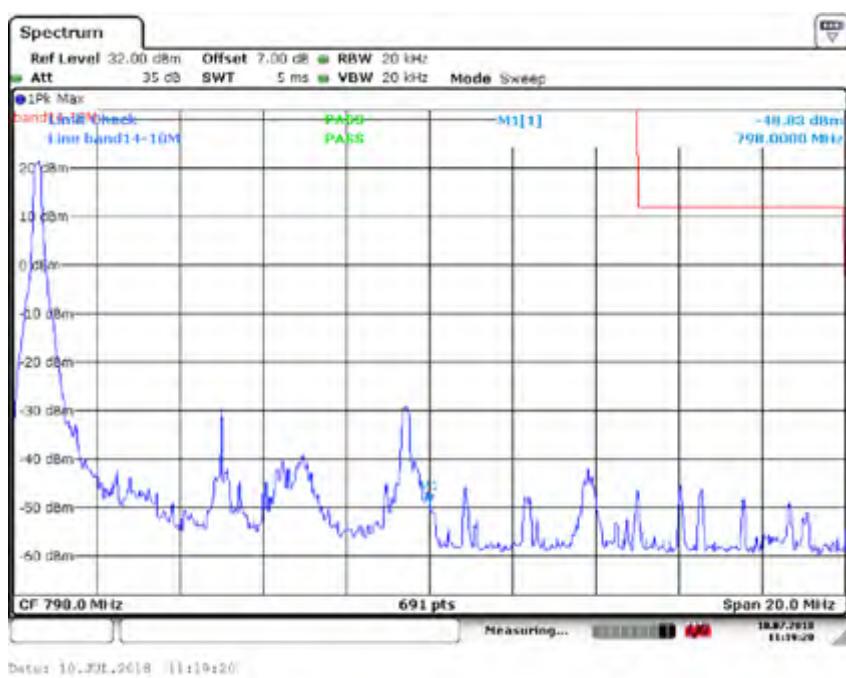


Fig.5

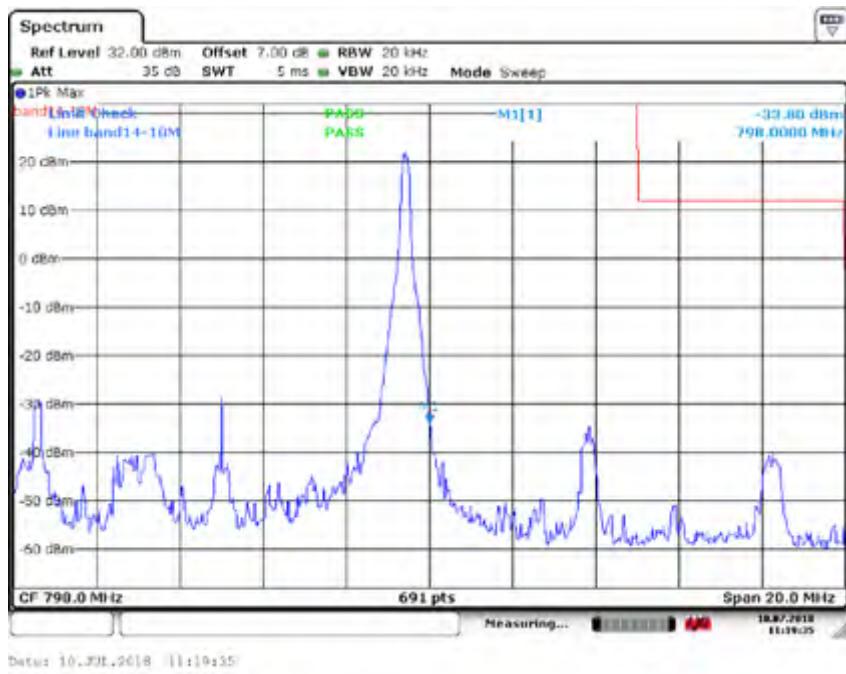


Fig.6

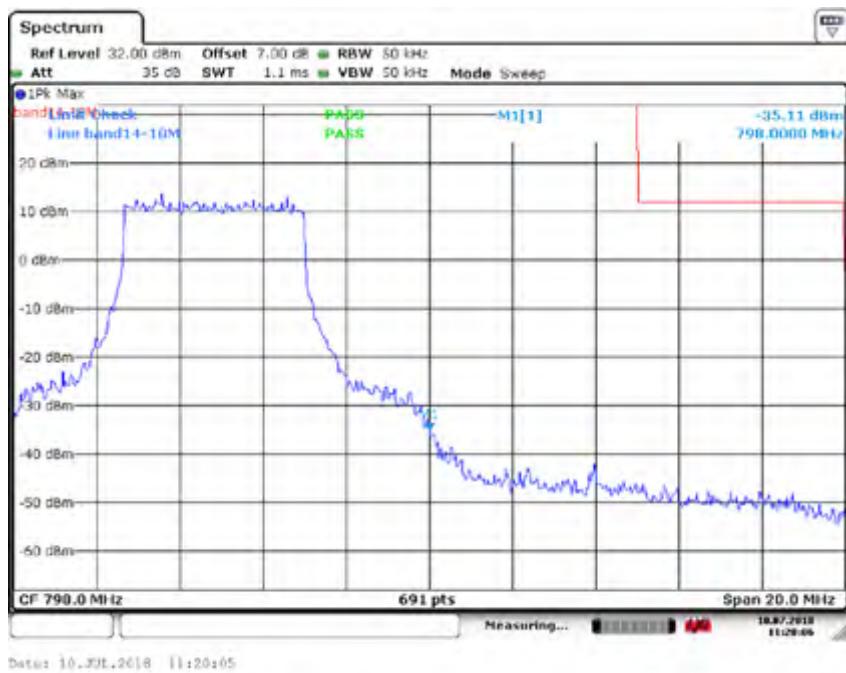


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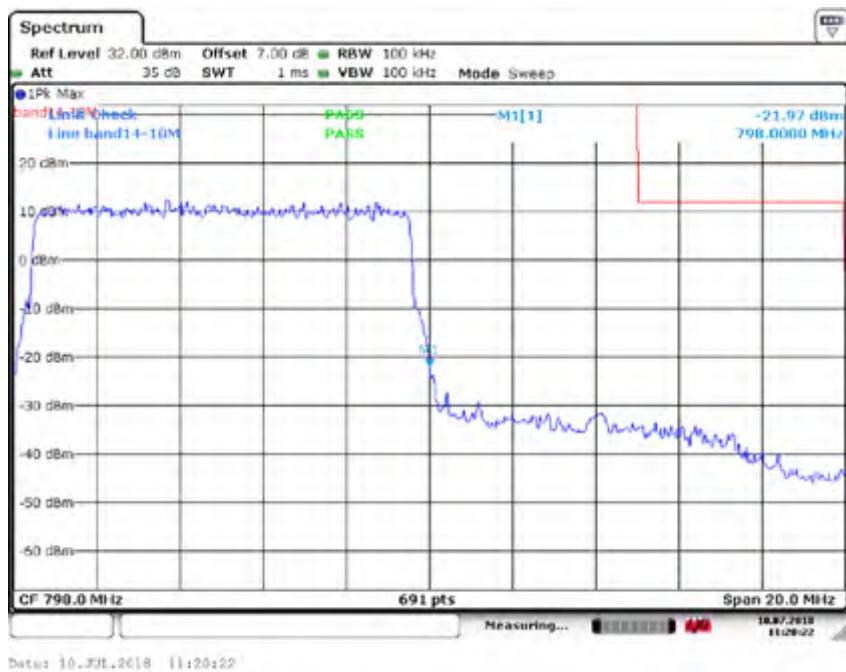
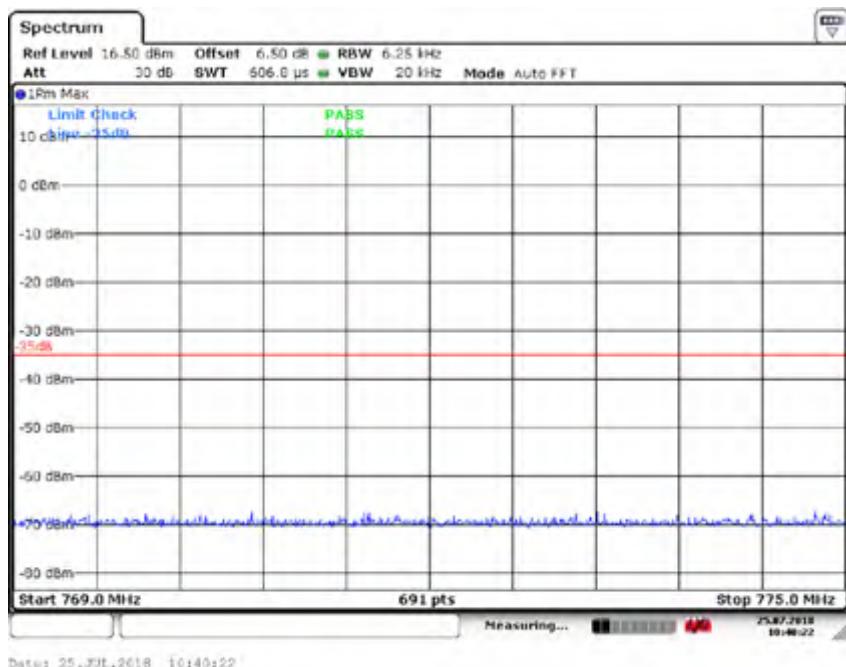
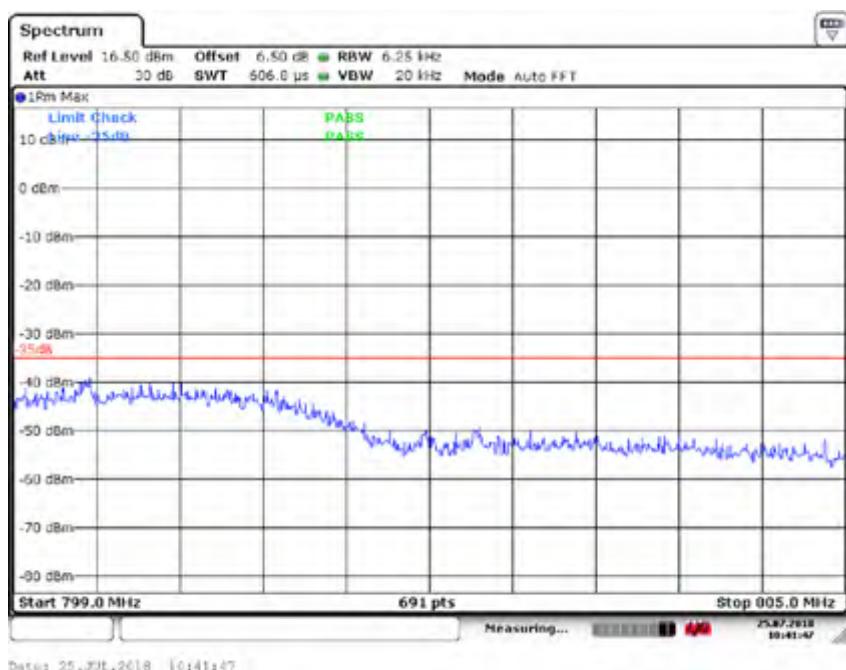


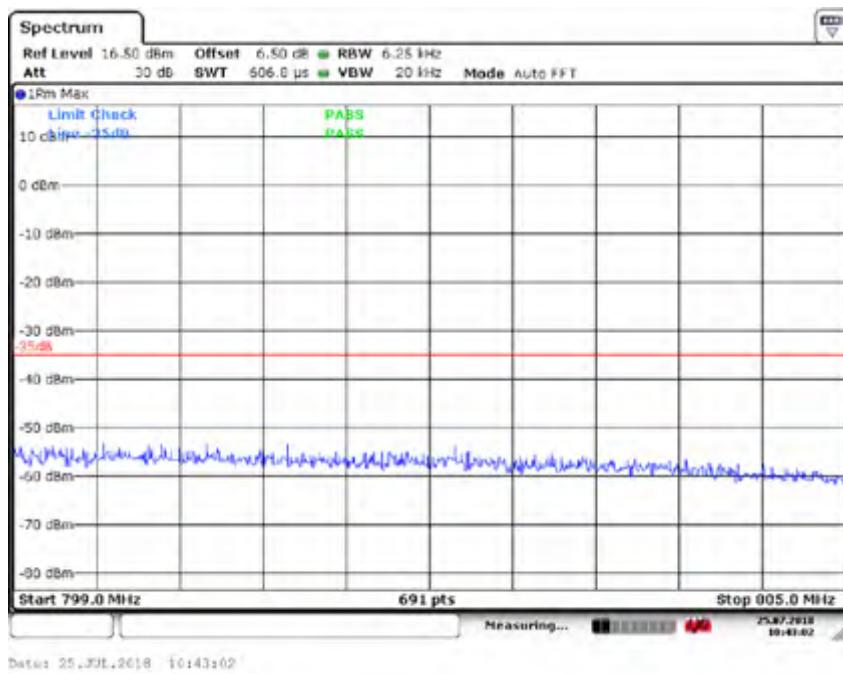
Fig.8



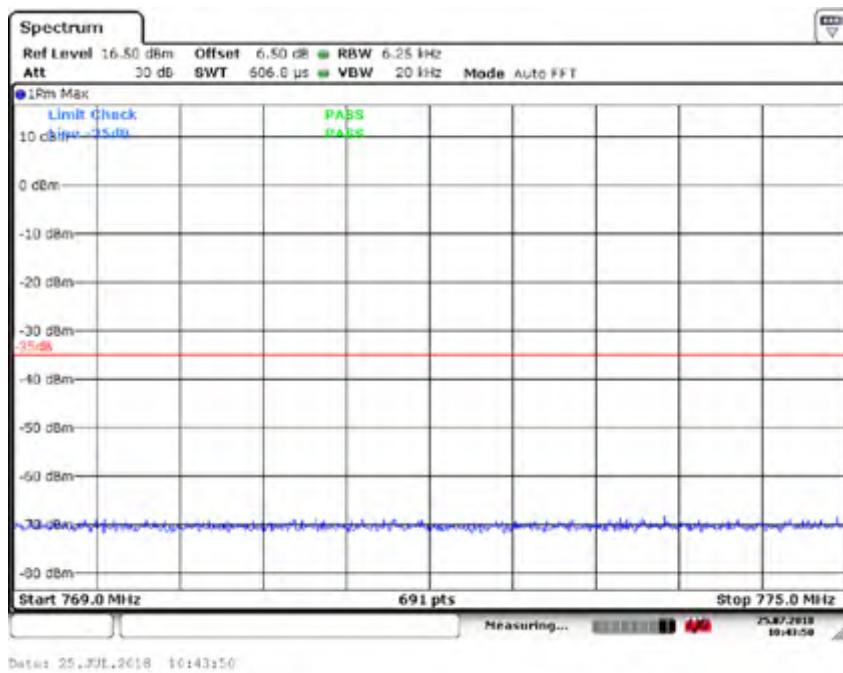
Emission Mask B14 5MHz QPSK Full RB Low Channel



Emission Mask B14 5MHz QPSK Full RB High Channel



Emission Mask B14 10MHz QPSK Full RB Lower



Emission Mask B14 10MHz QPSK Full RB Upper

## LTE Band 26

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band EdgesPlot	
						QPSK	16-QAM
26	814.7	26697	1.4	1	0	Fig.1	Fig.5
				1	5	Fig.2	Fig.6
				3	2	Fig.3	Fig.7
				6	0	Fig.4	Fig.8

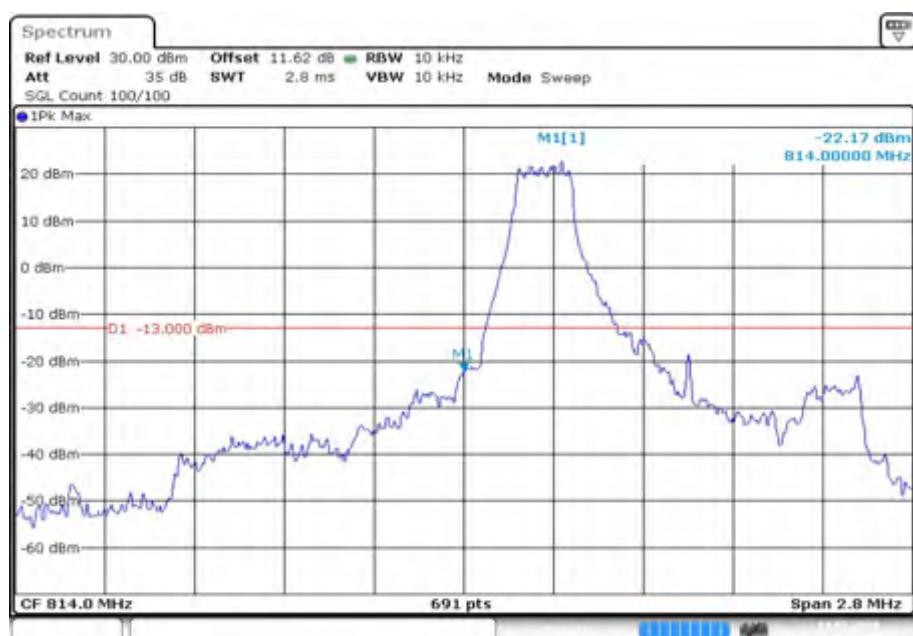


Fig.1



Fig.2

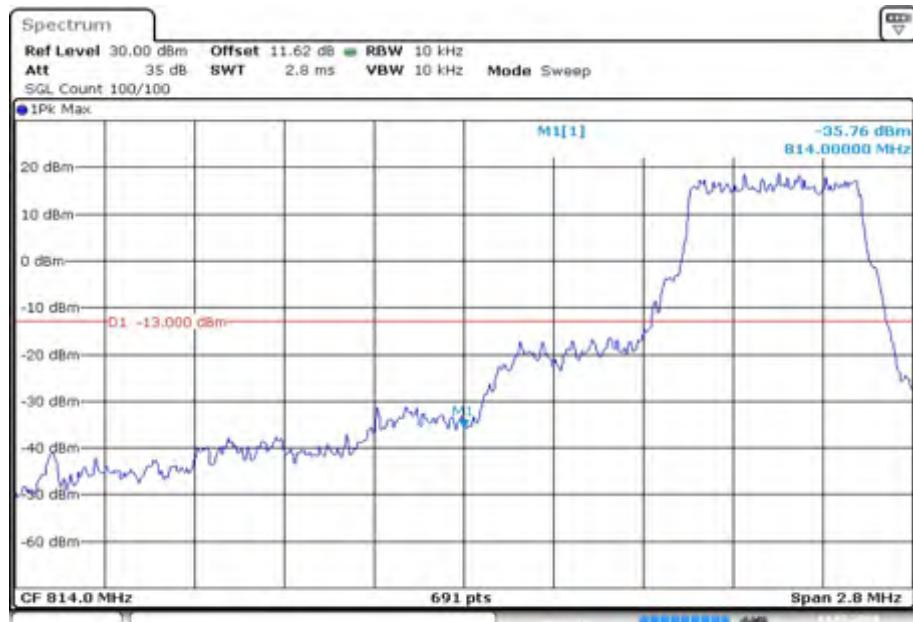


Fig.3

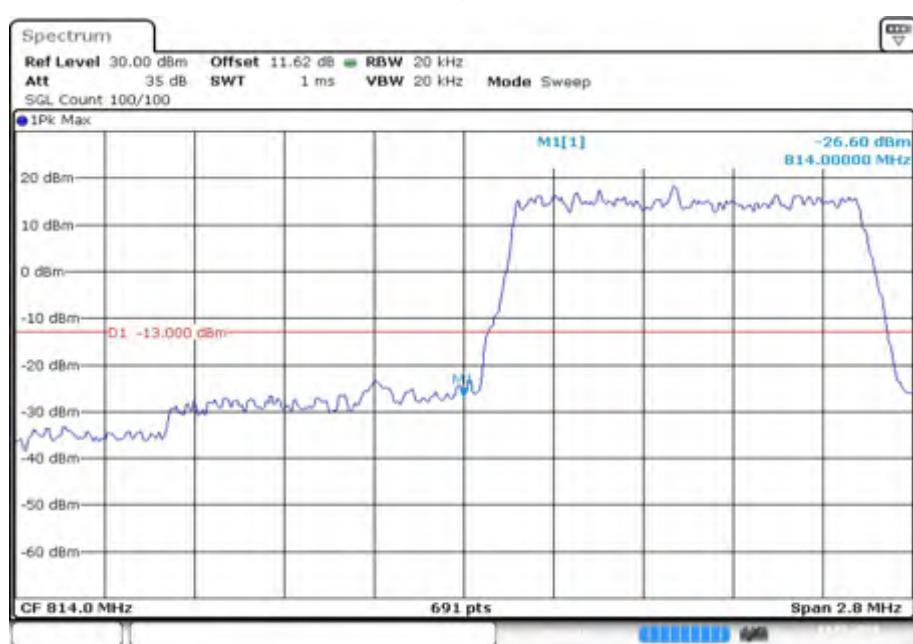


Fig.4

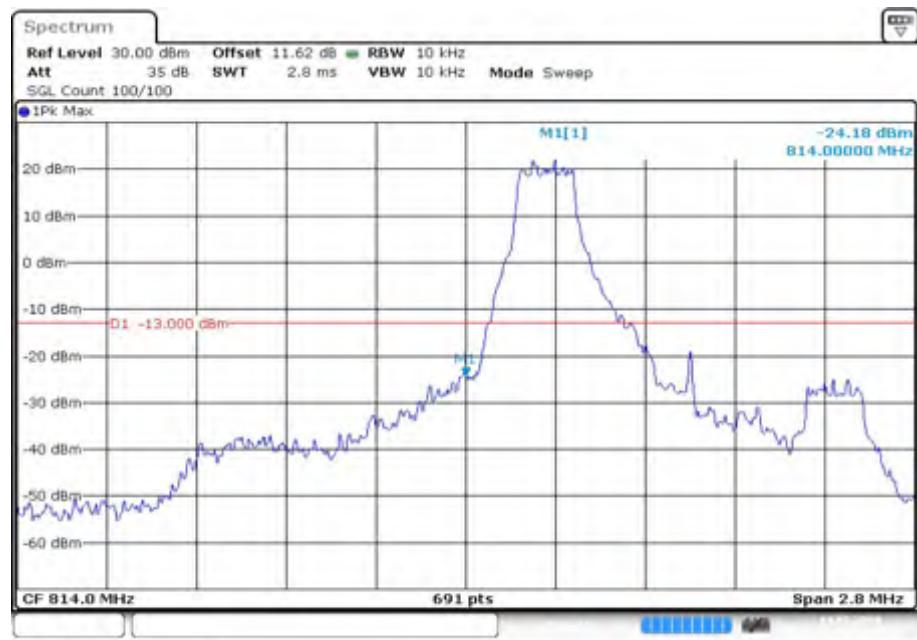


Fig.5

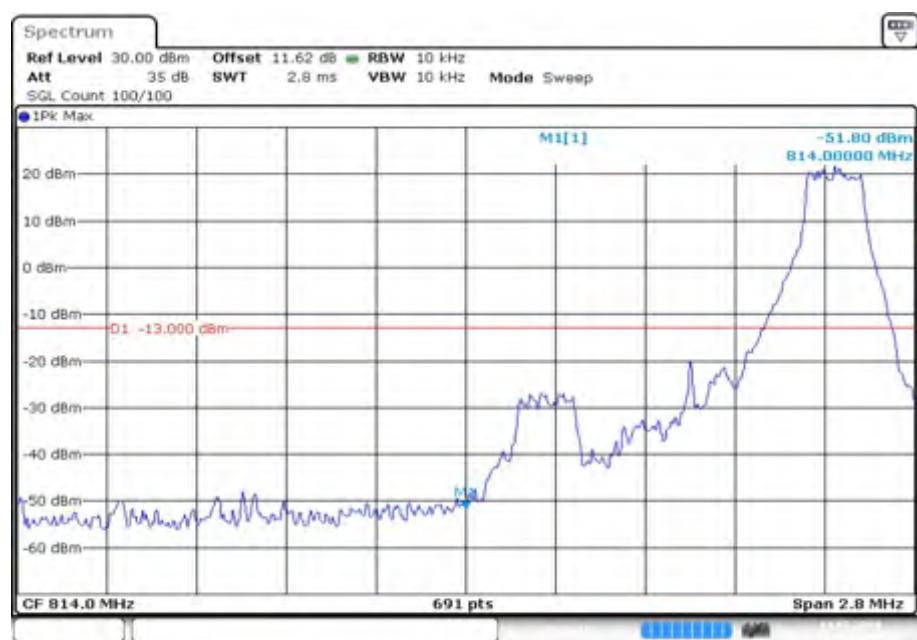


Fig.6

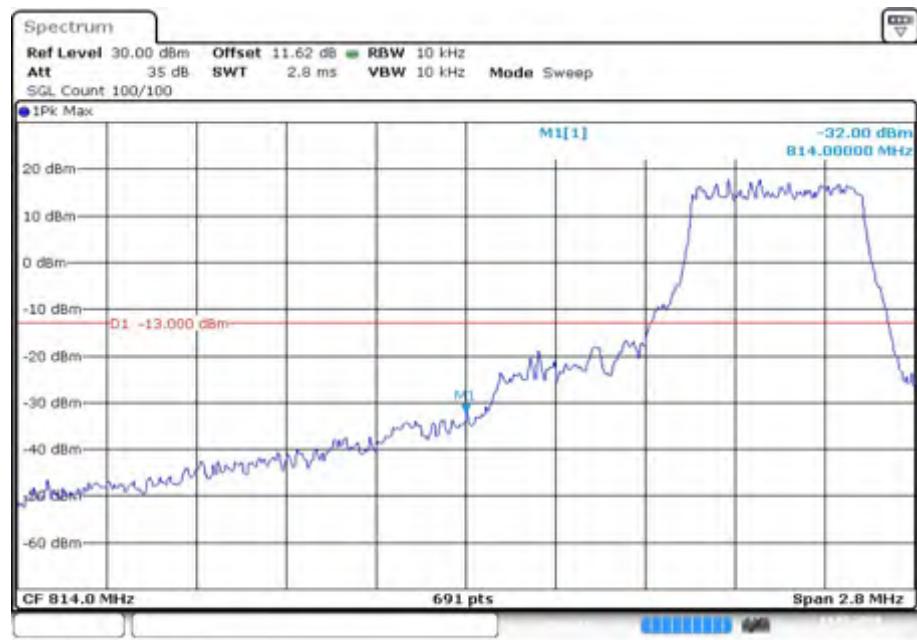


Fig.7

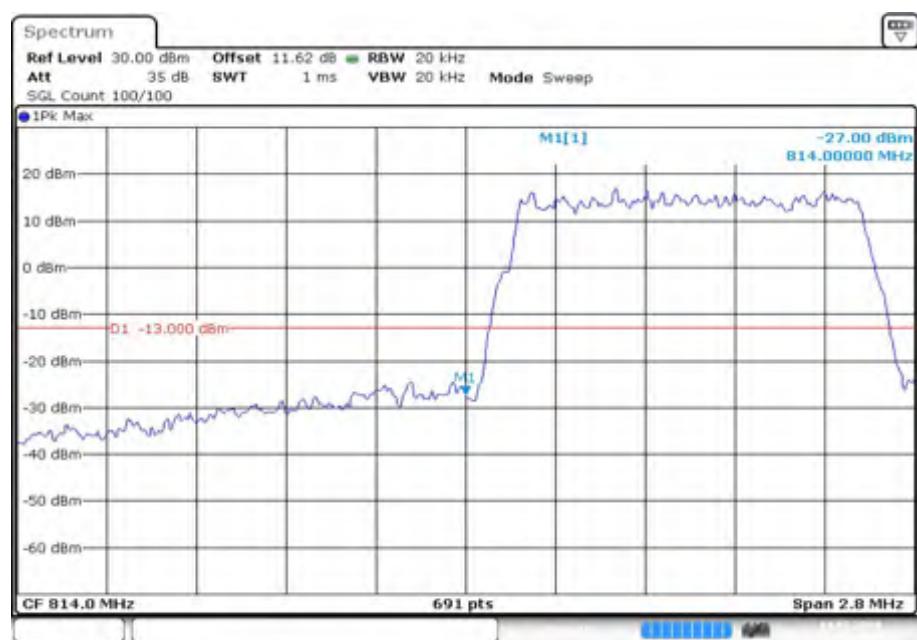


Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot	
						QPSK	16-QAM
26	848.3	27033	1.4	1	0	Fig.1	Fig.5
				1	5	Fig.2	Fig.6
				3	2	Fig.3	Fig.7
				6	0	Fig.4	Fig.8

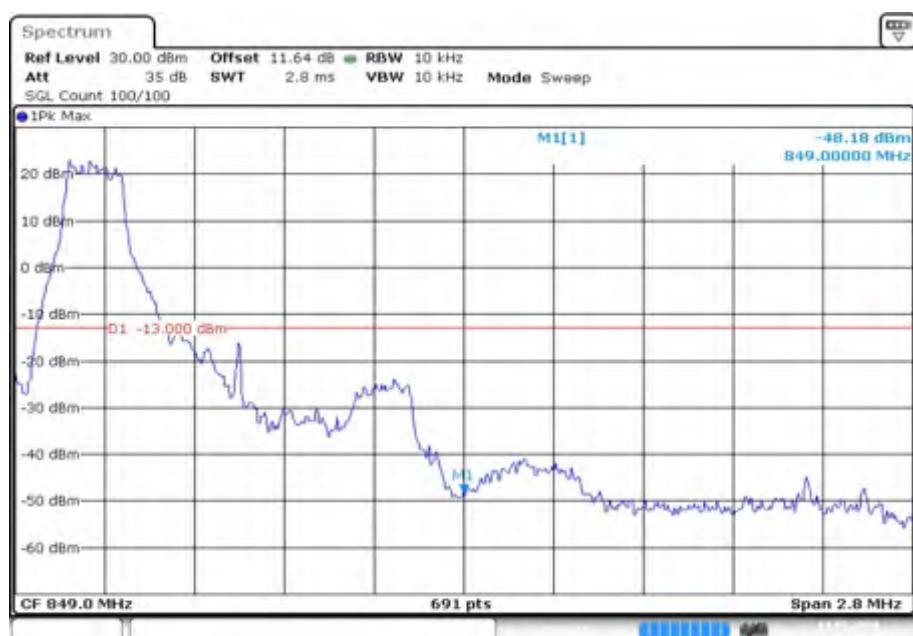
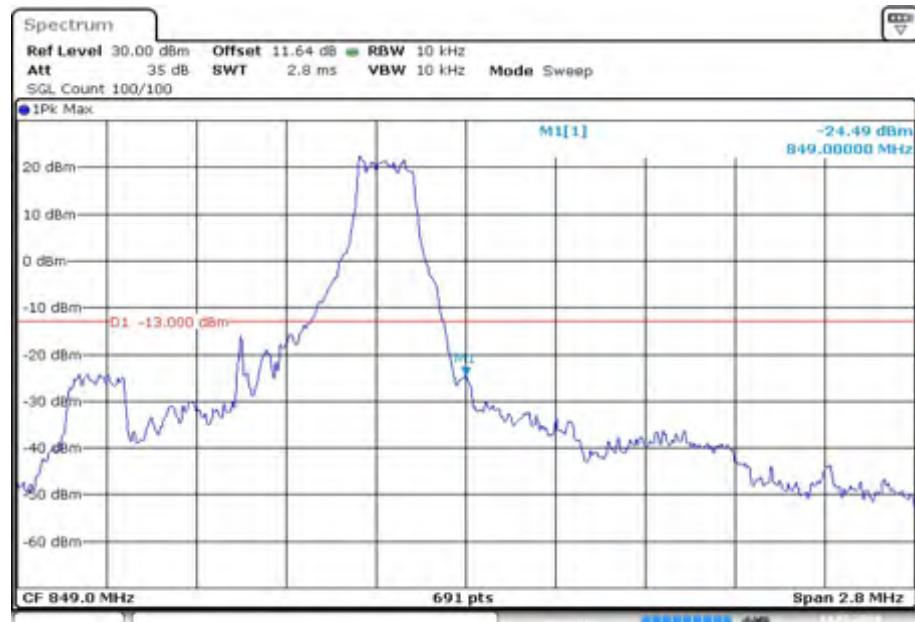
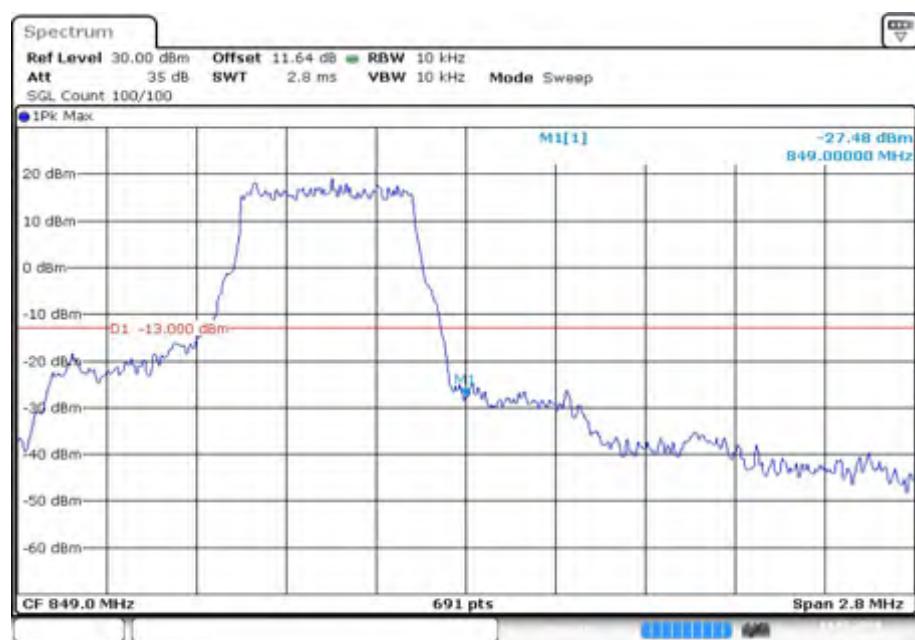


Fig.1



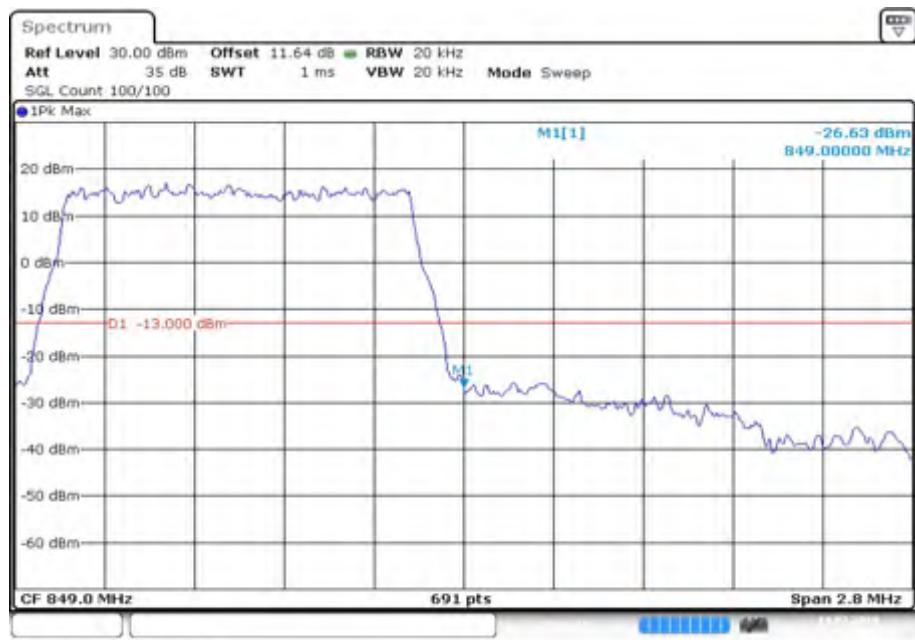
Date: 14 MAR 2018 14:52:47

Fig.2



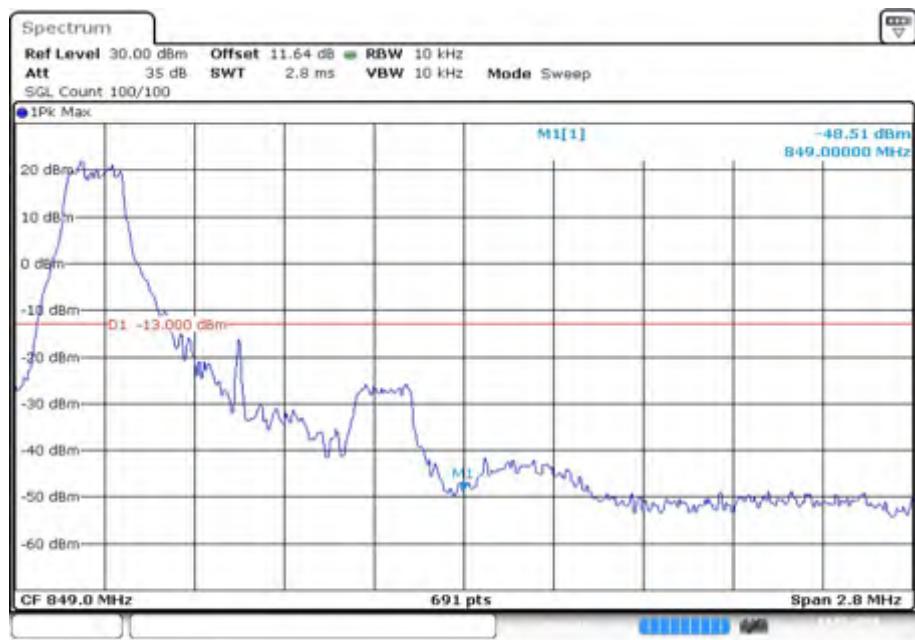
Date: 14 MAR 2018 14:52:56

Fig.3



Date: 14.MAR.2018 14:53:05

Fig.4



Date: 14.MAR.2018 14:53:15

Fig.5

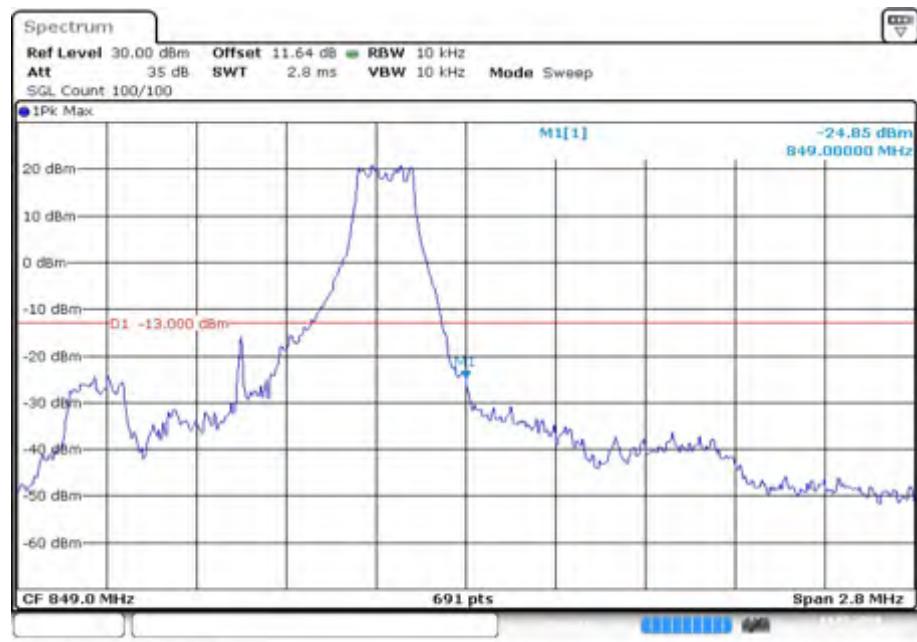


Fig.6

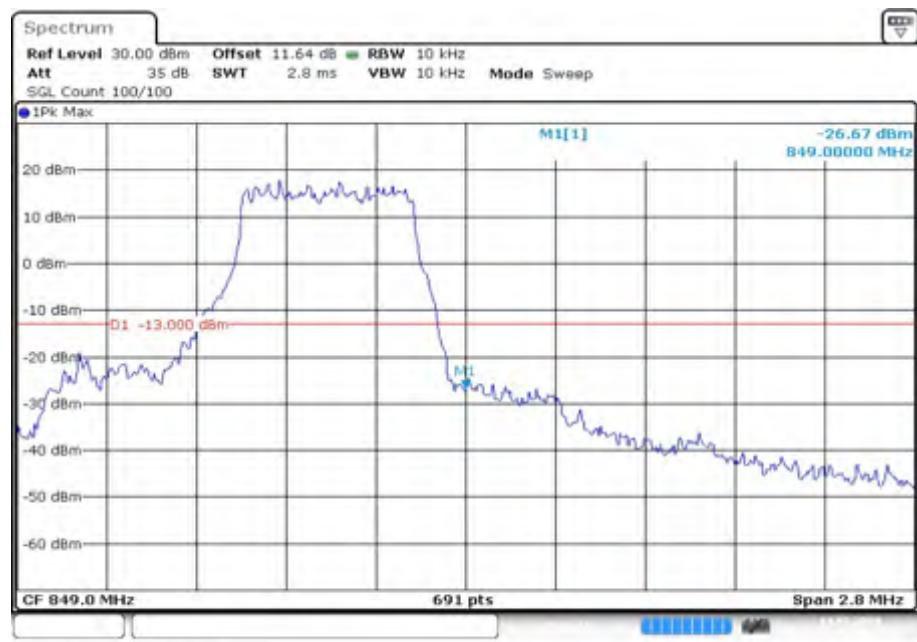
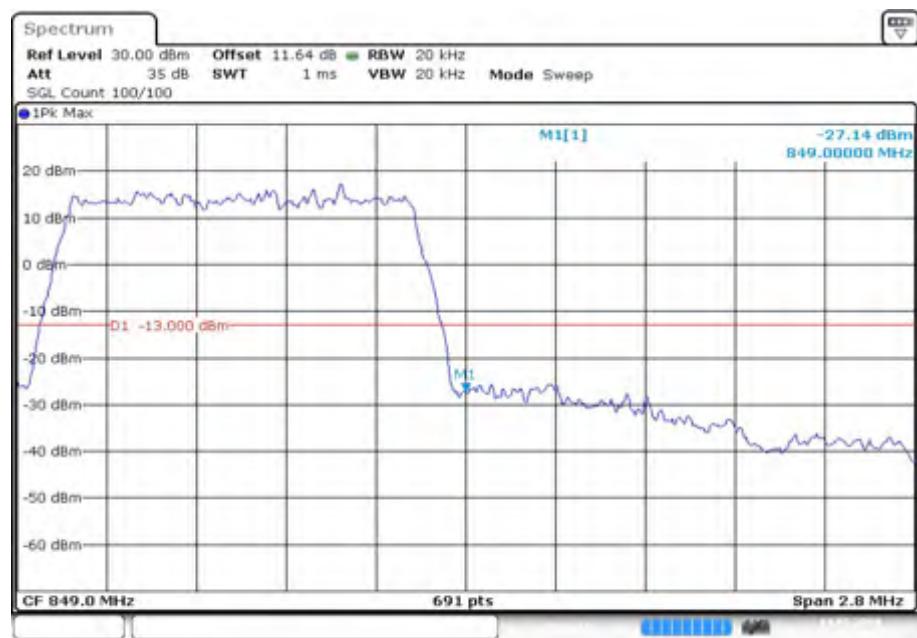


Fig.7



Date: 14 MAR 2018 14:53:43

Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band EdgesPlot	
						QPSK	16-QAM
26	815.5	26705	3	1	0	Fig.1	Fig.5
				1	5	Fig.2	Fig.6
				3	2	Fig.3	Fig.7
				6	0	Fig.4	Fig.8

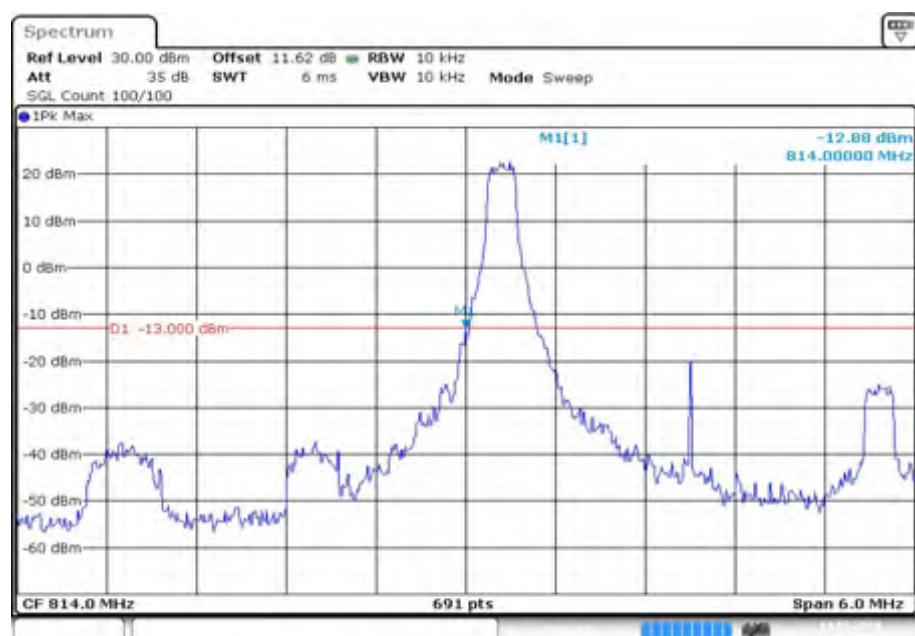
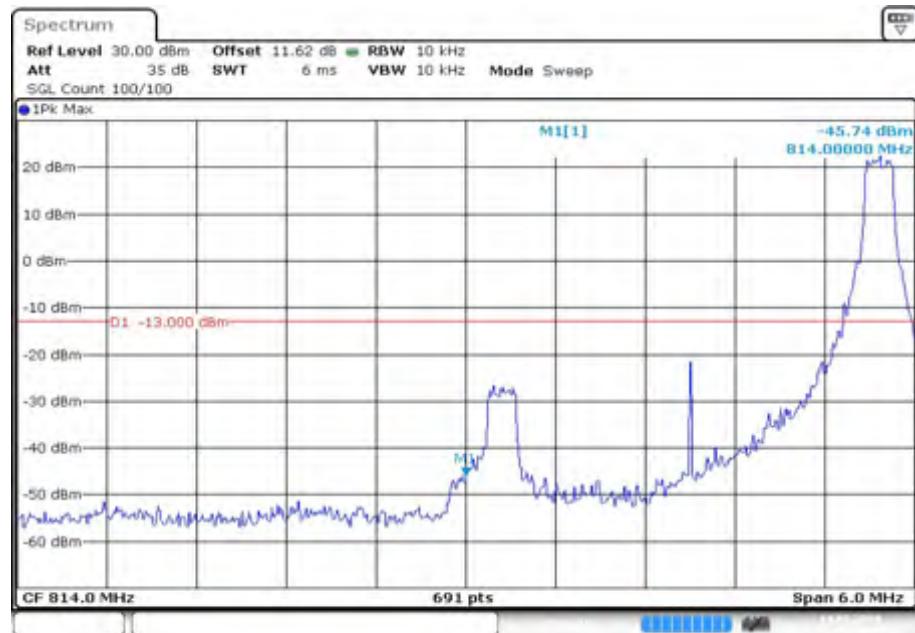
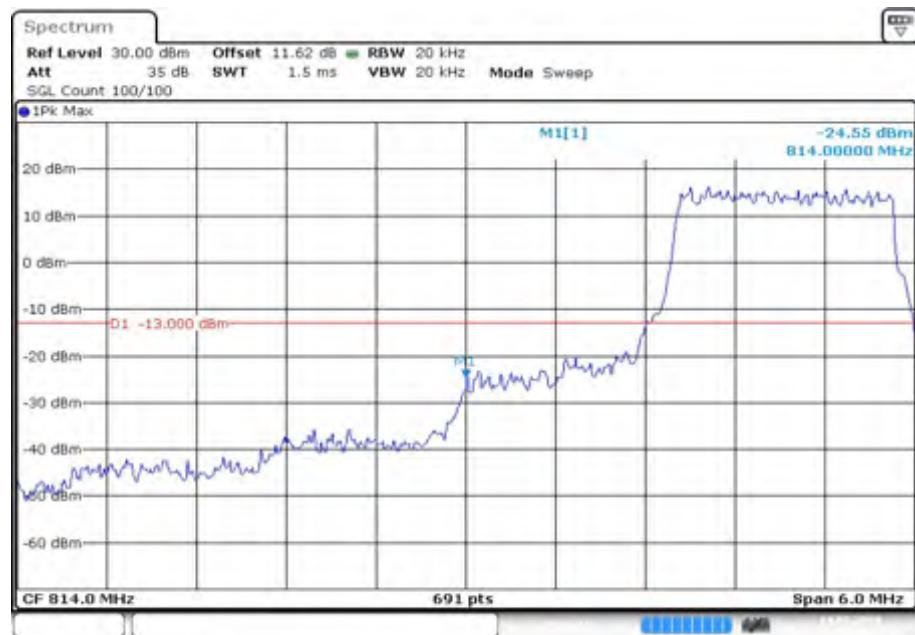


Fig.1



Date: 14.MAR.2018 15:02:05

Fig.2



Date: 14.MAR.2018 15:02:14

Fig.3

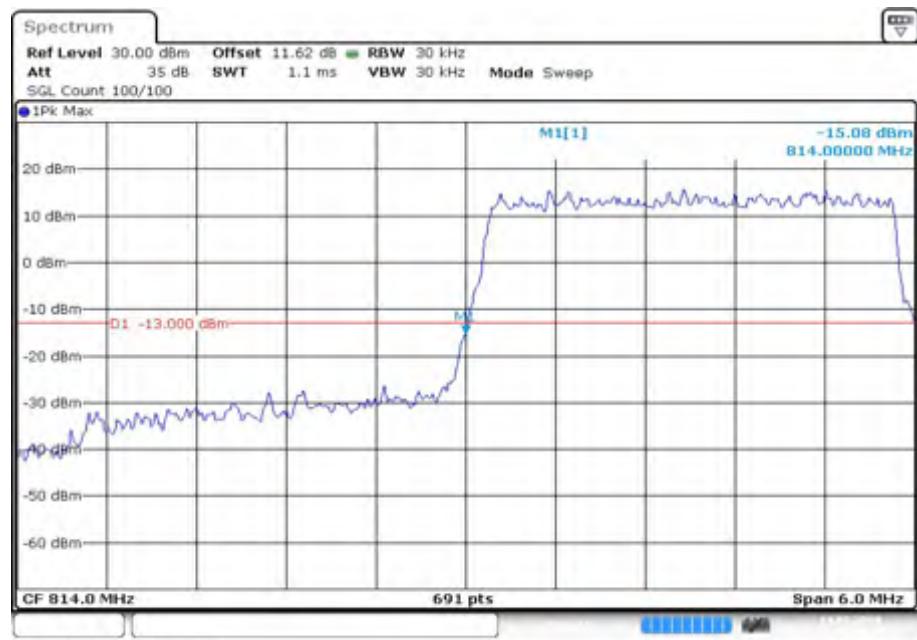


Fig.4

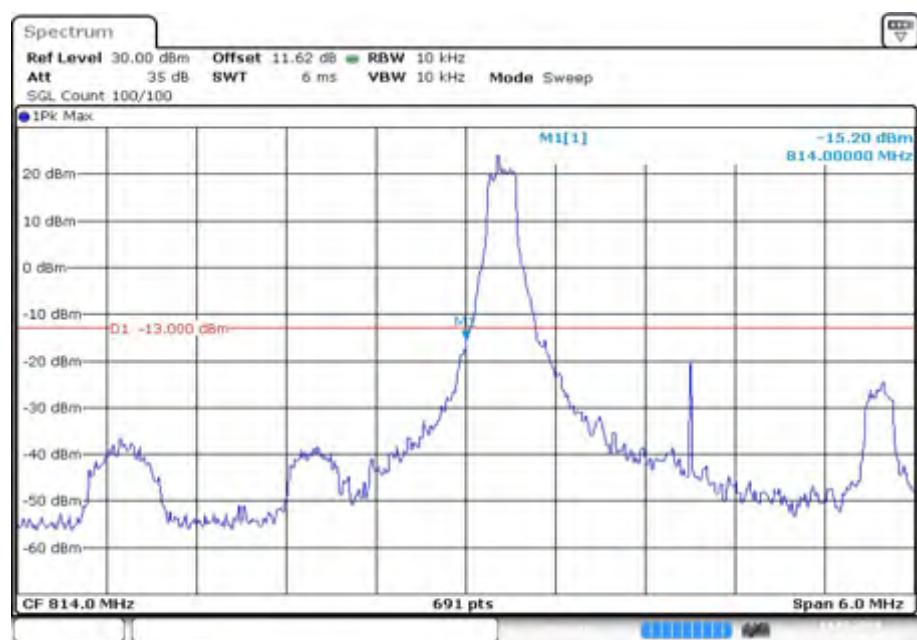


Fig.5

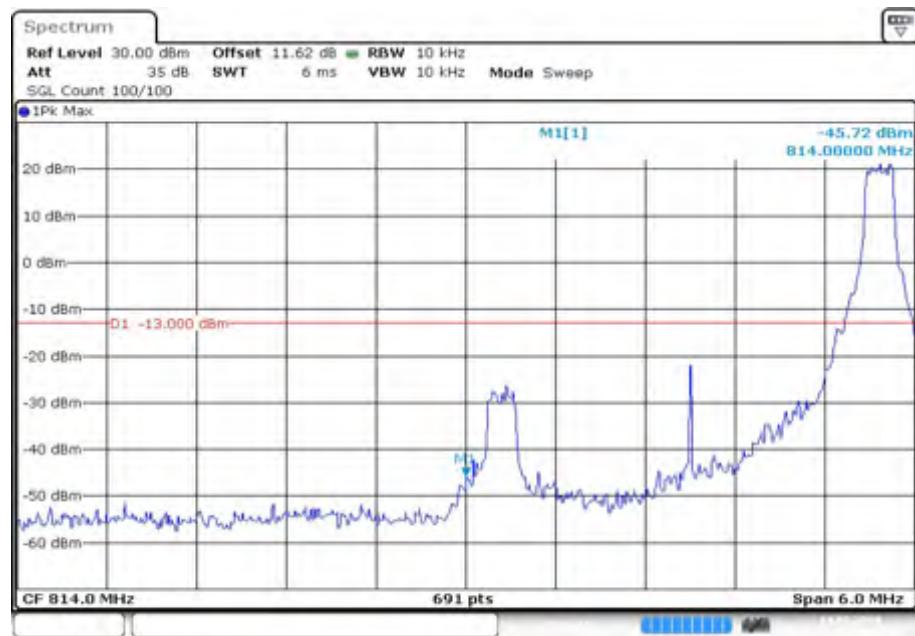


Fig.6

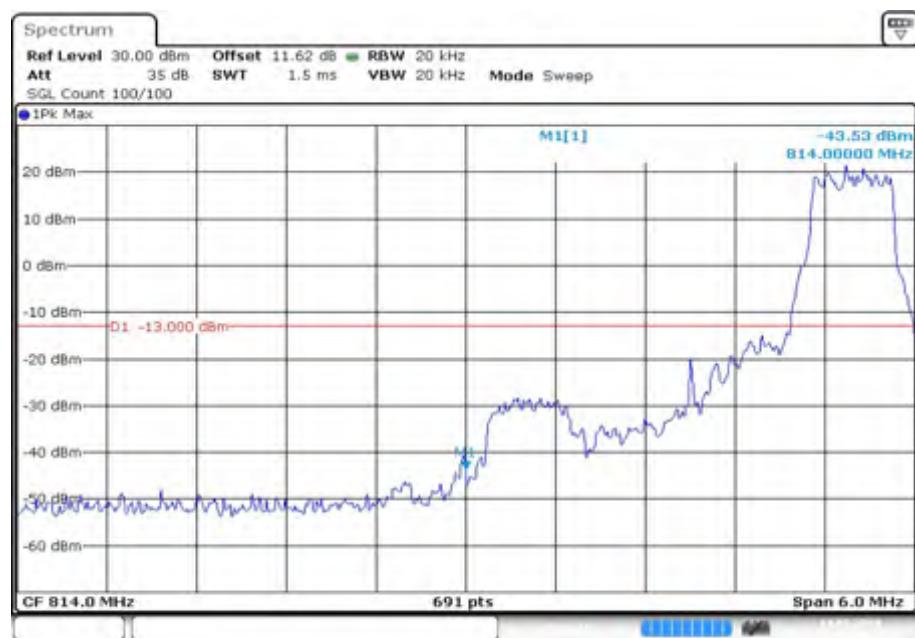
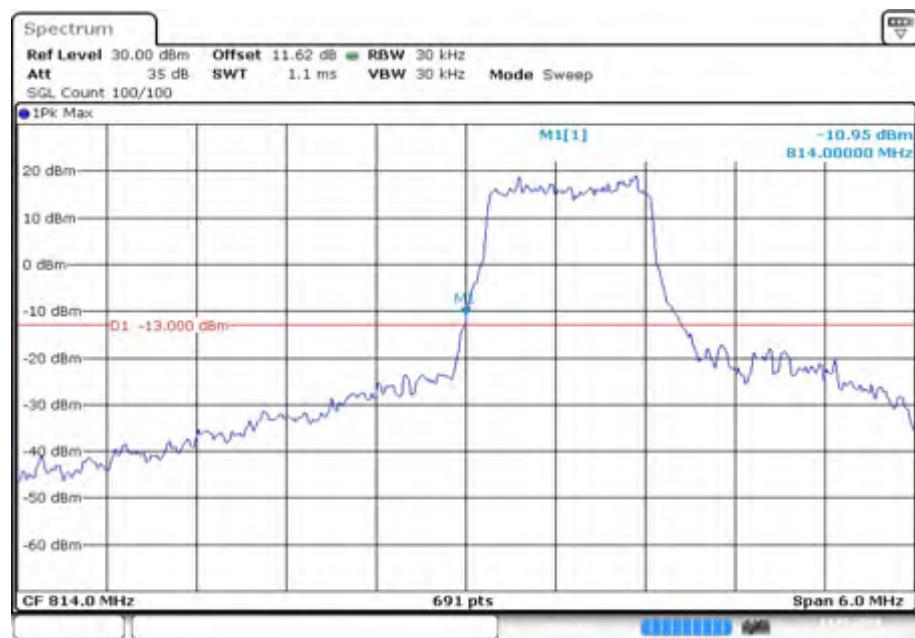


Fig.7



Date: 14 MAR 2018 15:03:01

Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot	
						QPSK	16-QAM
26	847.5	27025	3	1	0	Fig.1	Fig.5
				1	5	Fig.2	Fig.6
				3	2	Fig.3	Fig.7
				6	0	Fig.4	Fig.8

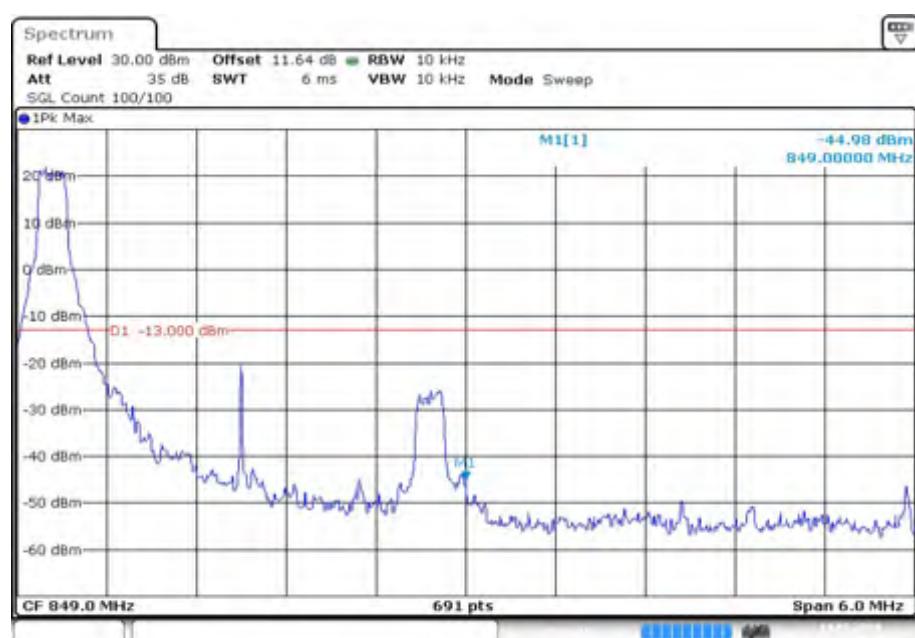


Fig.1

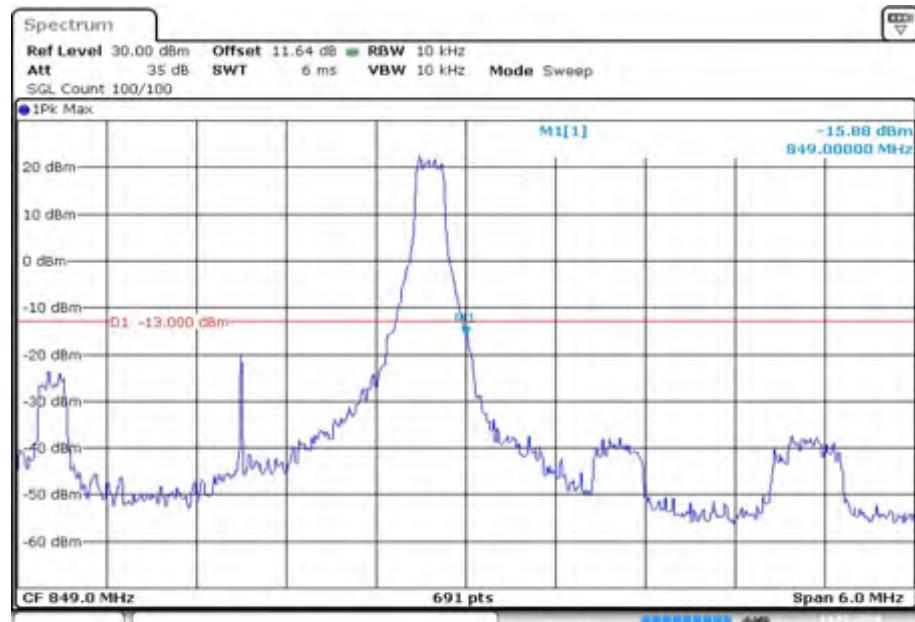


Fig.2

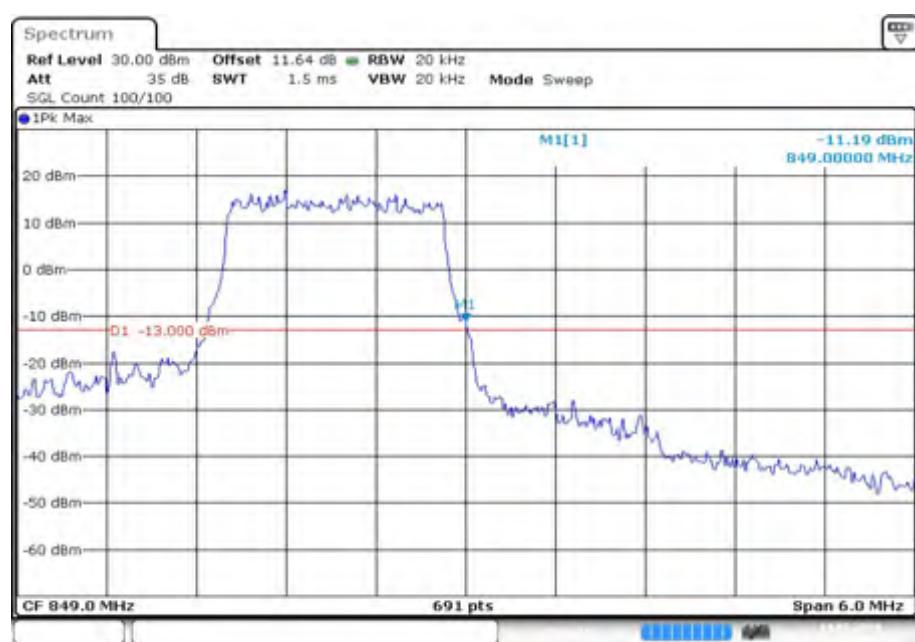


Fig.3

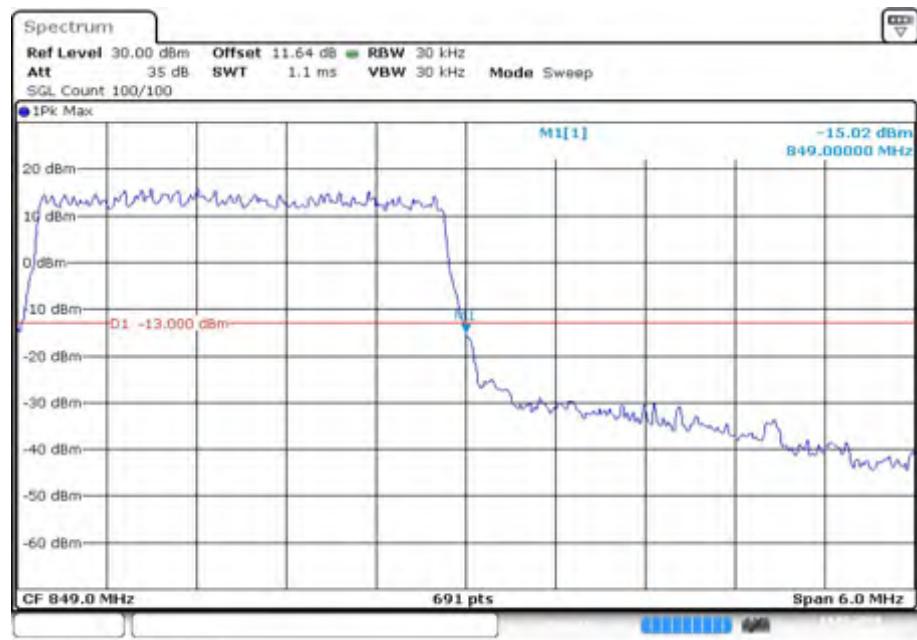


Fig.4

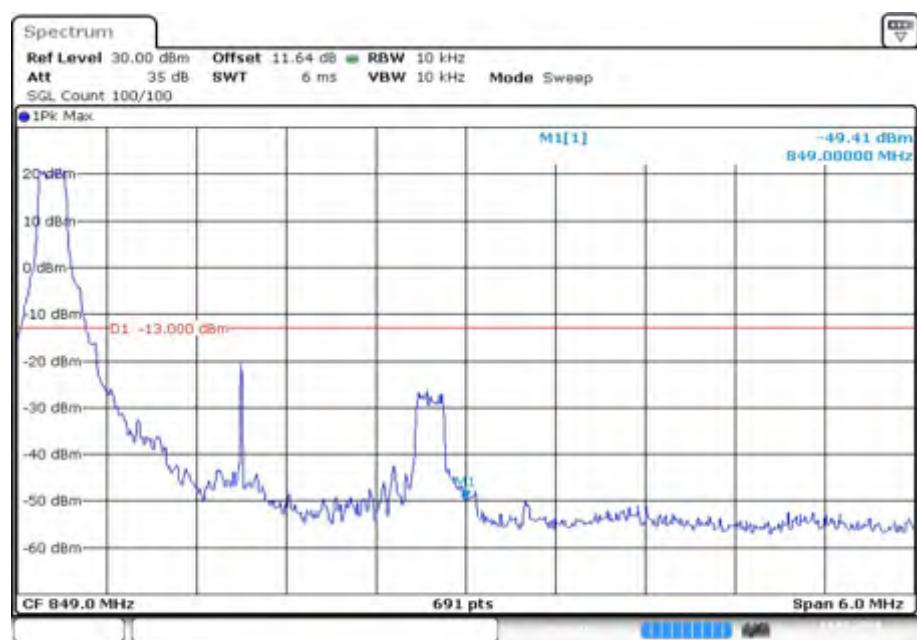


Fig.5

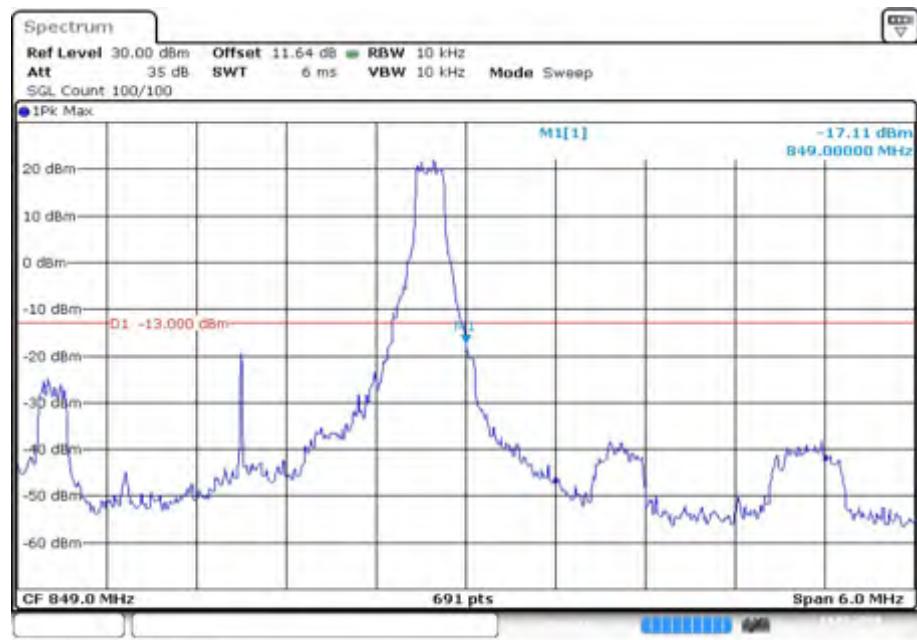


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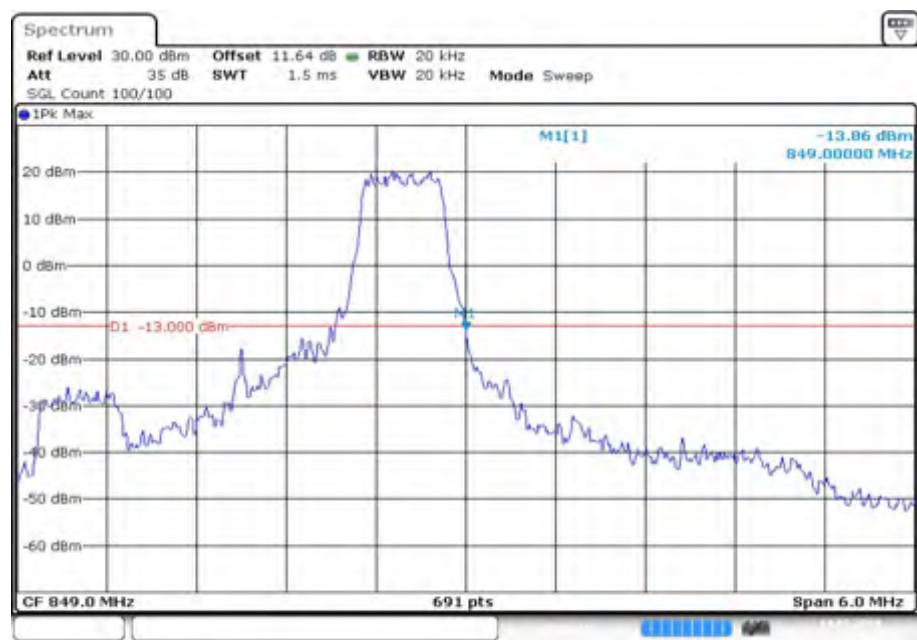
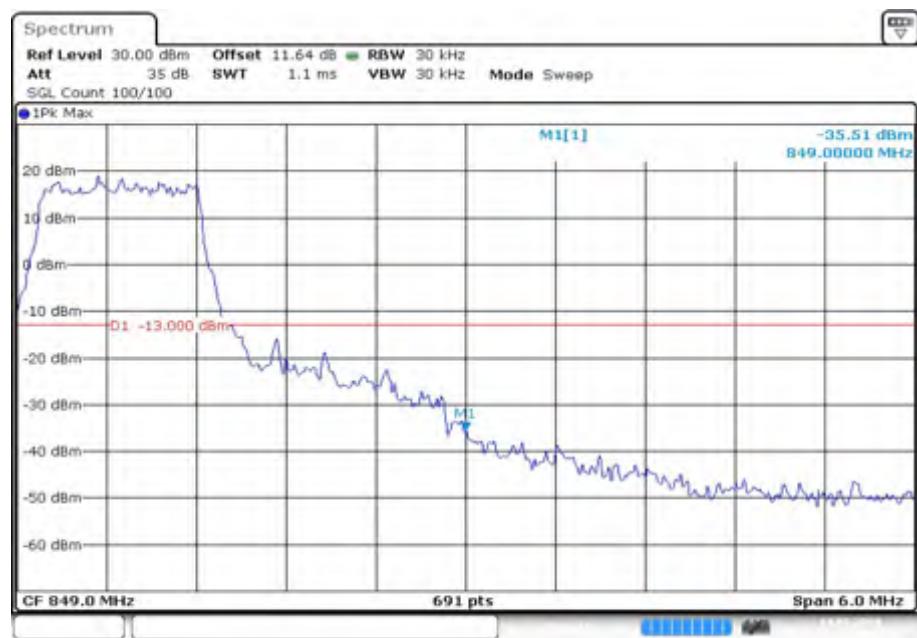


Fig.7



Date: 14 MAR 2018 15:20:42

Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band EdgesPlot	
						QPSK	16-QAM
26	816.5	26715	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

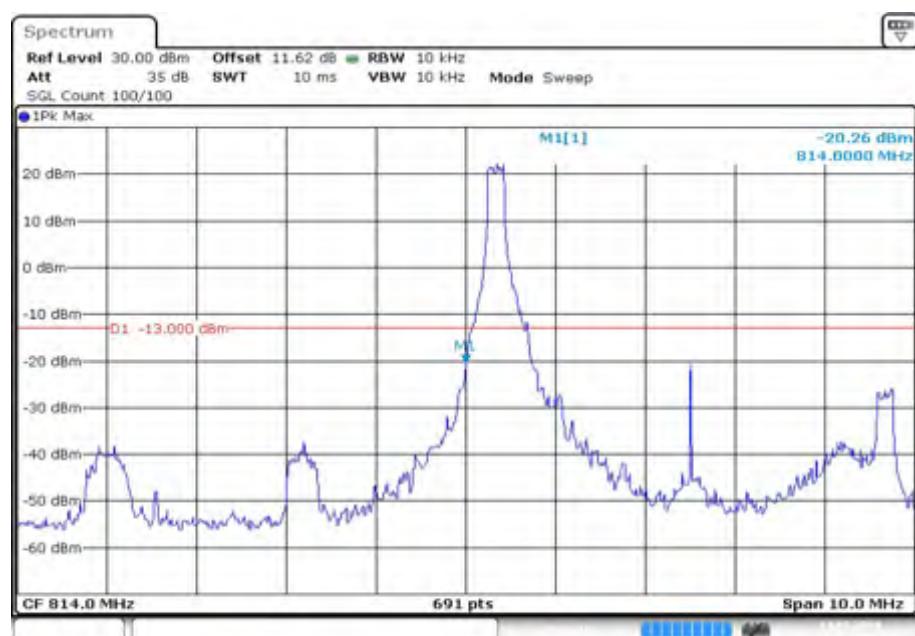
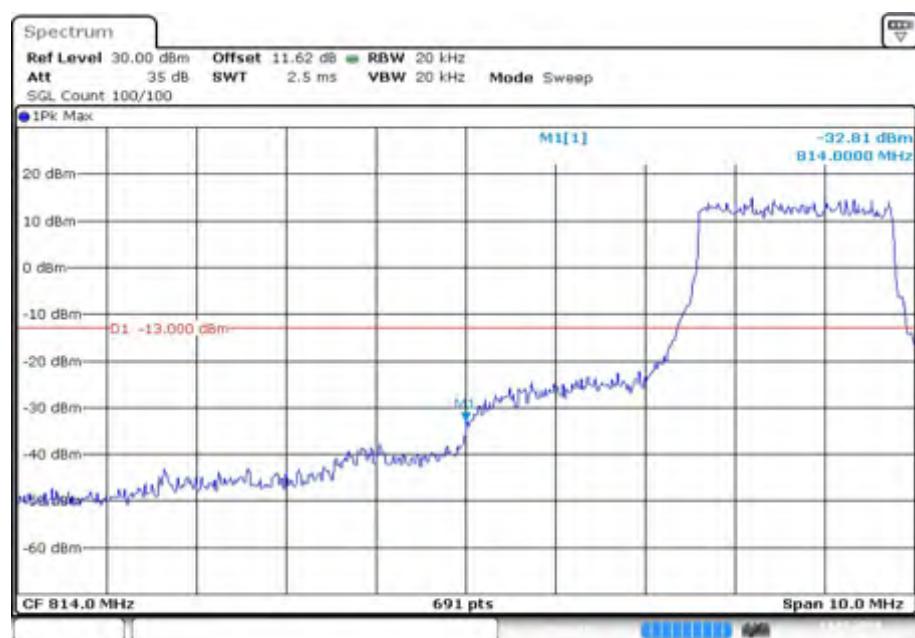


Fig.1



Date: 14.MAR.2018 15:29:01

Fig.2



Date: 14.MAR.2018 15:29:11

Fig.3

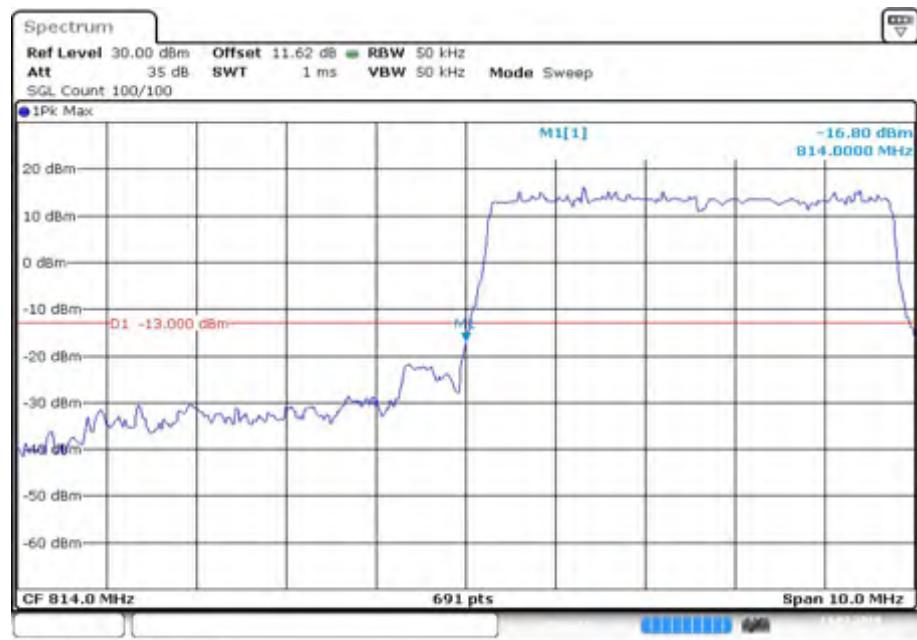


Fig.4

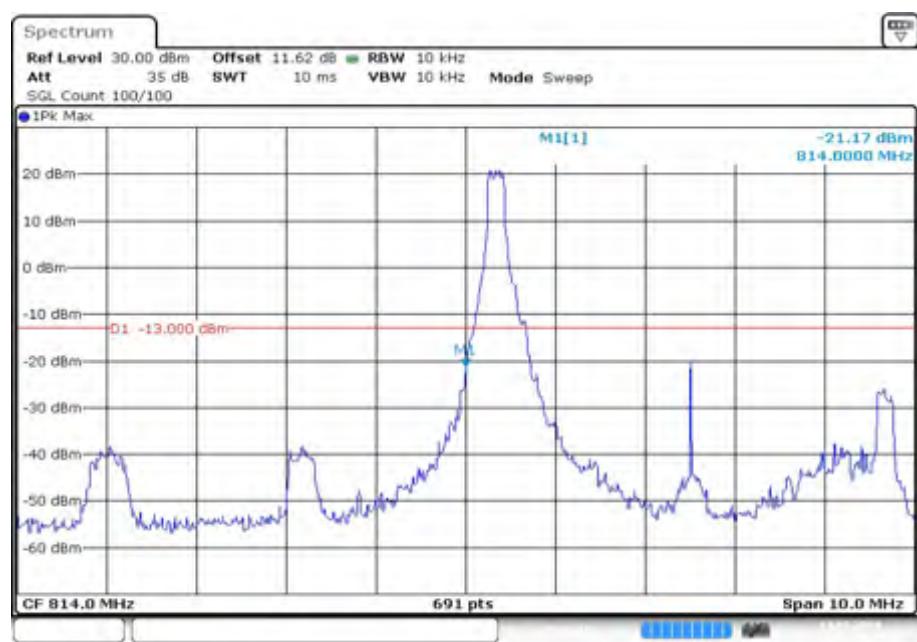


Fig.5

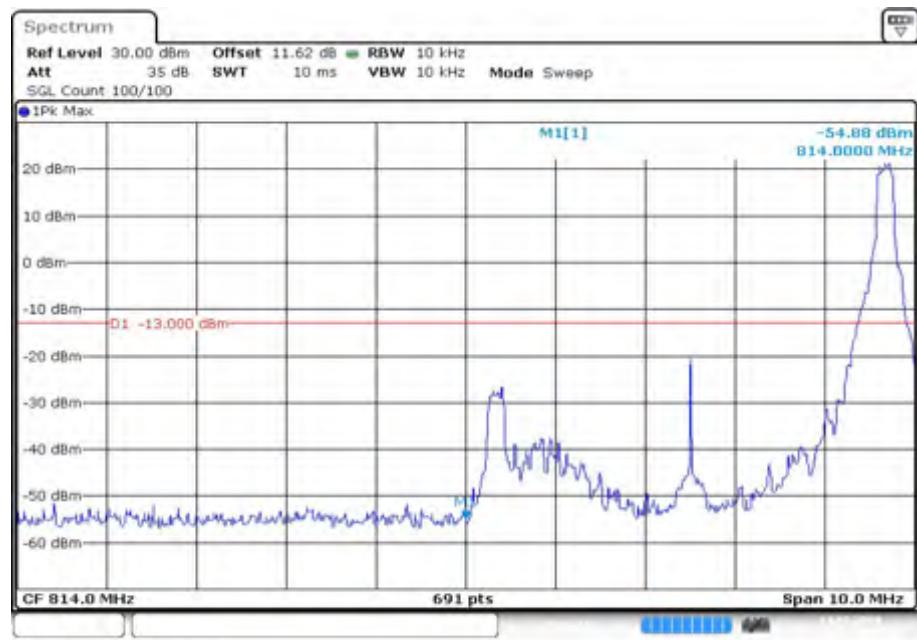


Fig.6

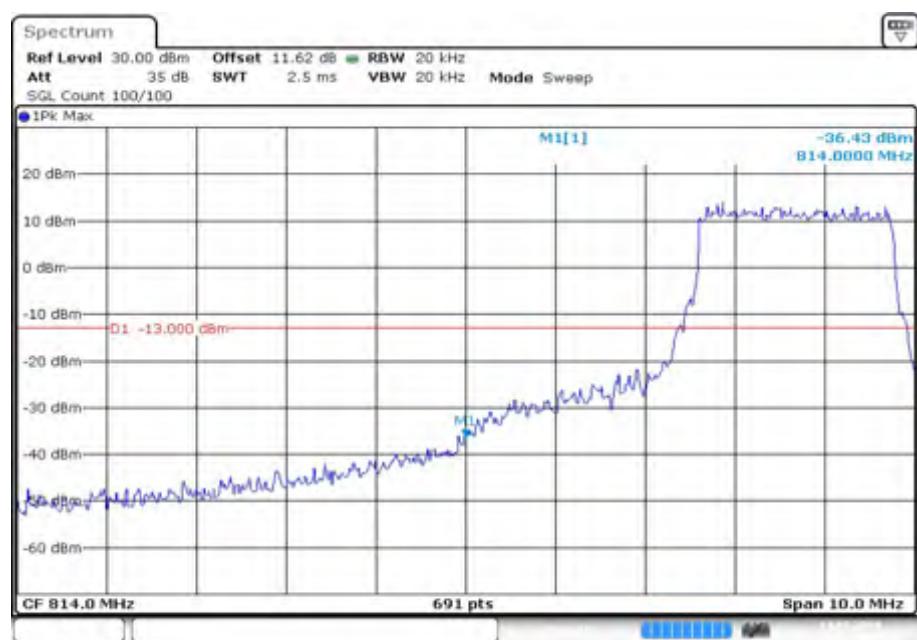
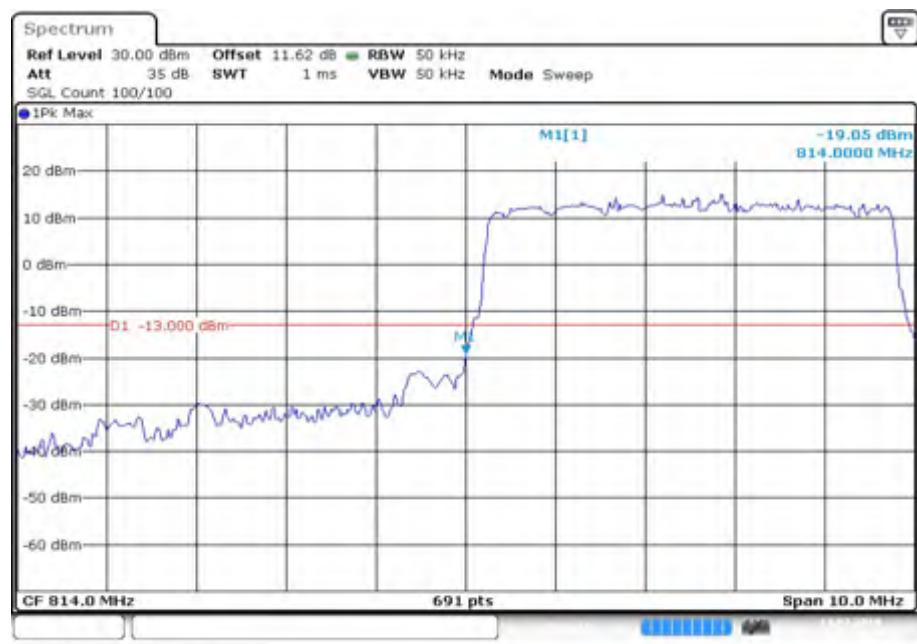


Fig.7



Date: 14 MAR 2018 15:29:57

Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot	
						QPSK	16-QAM
26	846.5	27015	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

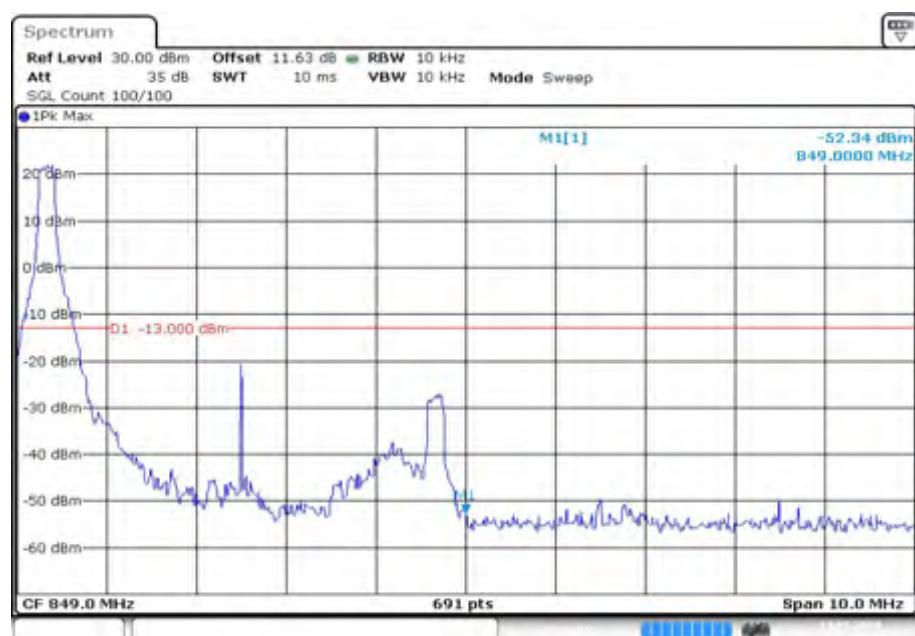
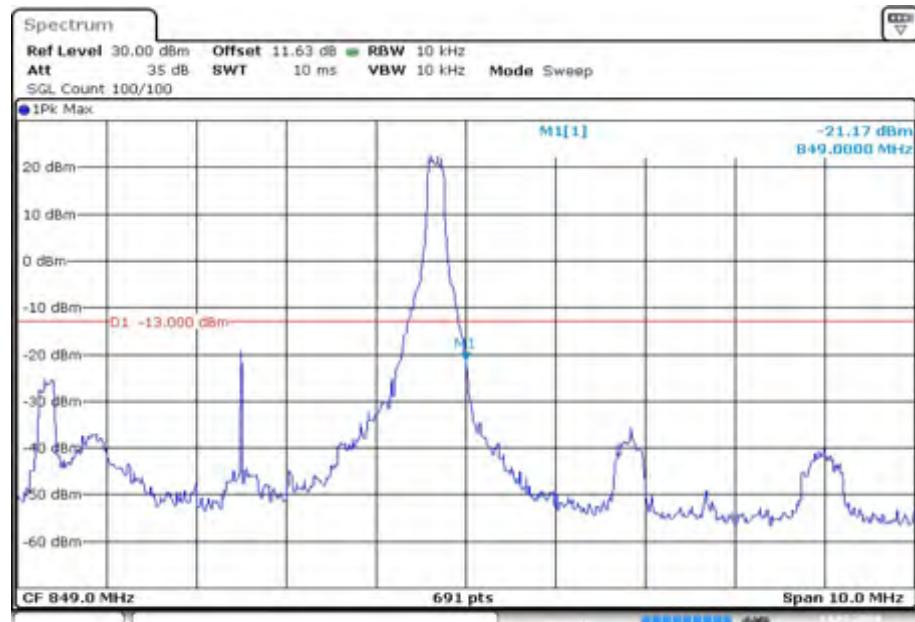
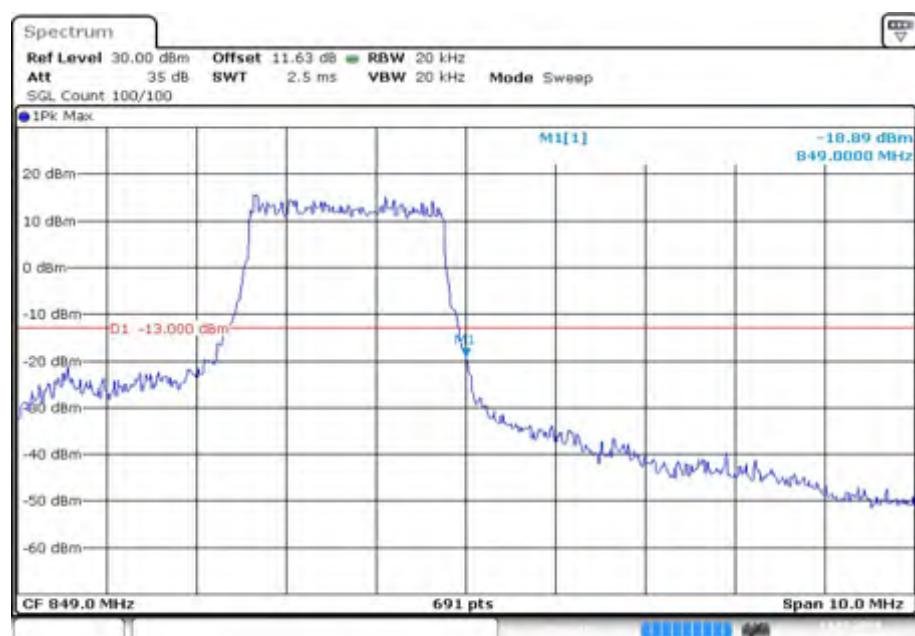


Fig.1



Date: 14 MAR 2018 15:46:41

Fig.2



Date: 14 MAR 2018 15:46:50

Fig.3

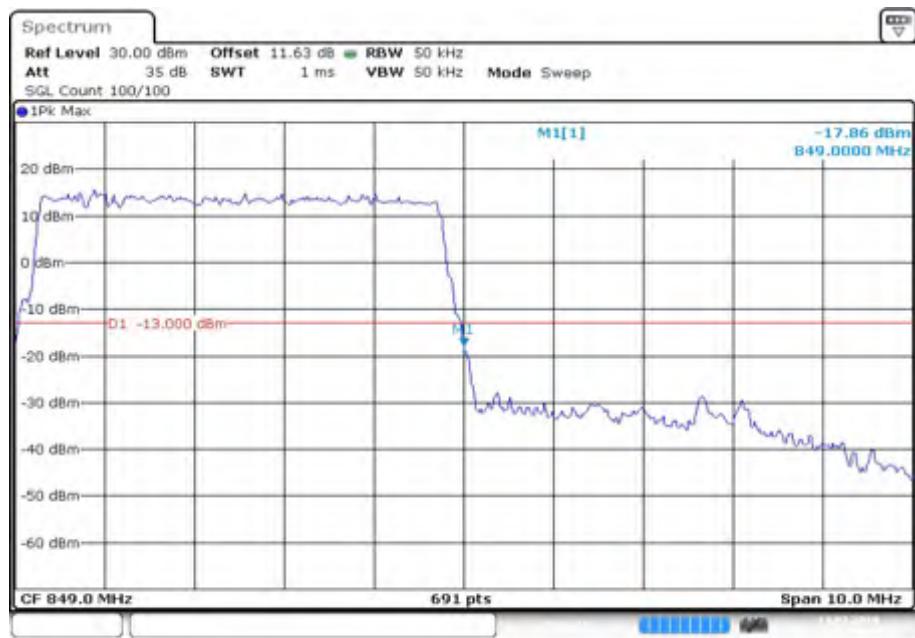


Fig.4

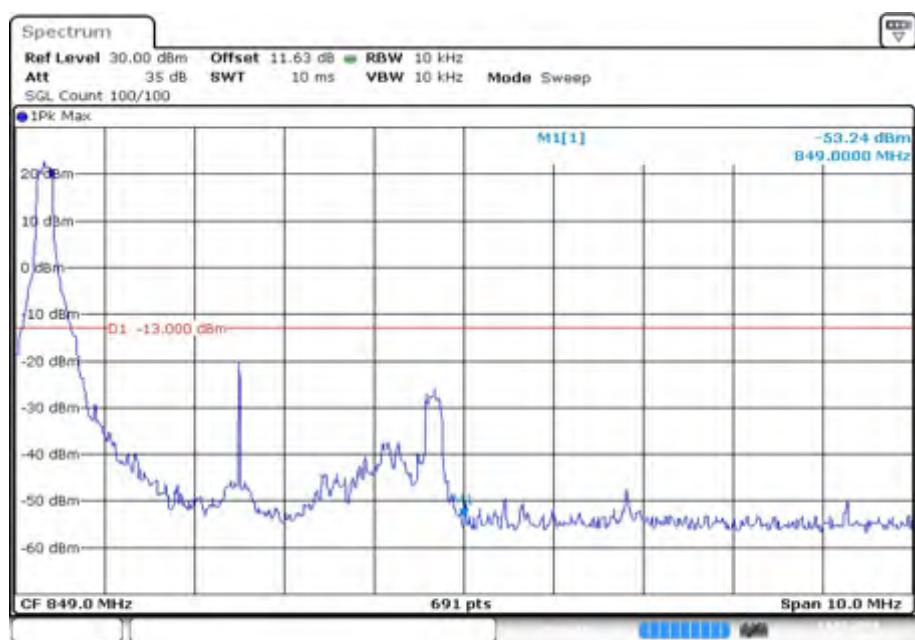


Fig.5

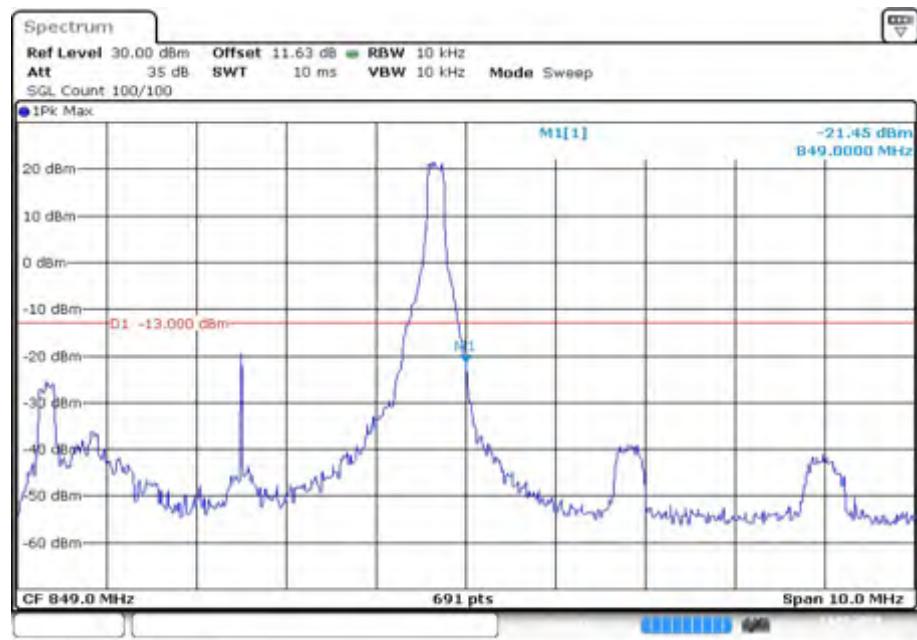


Fig.6

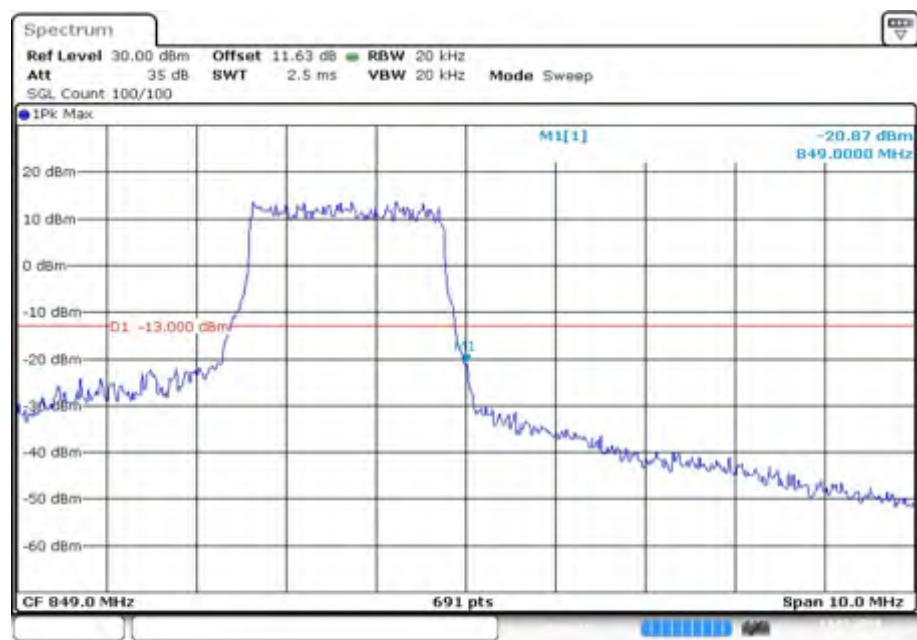
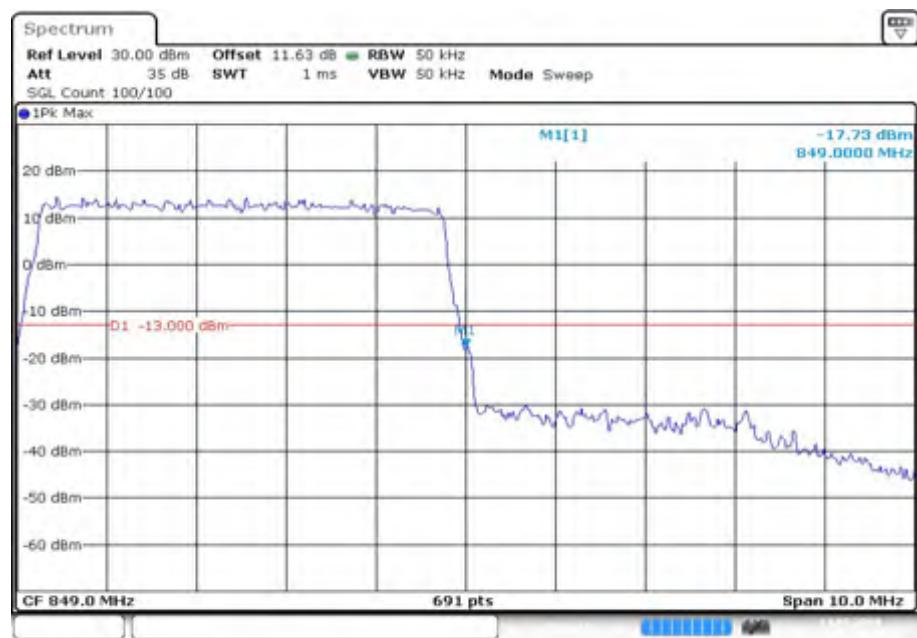


Fig.7



Date: 14 MAR 2018 15:47:37

Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band EdgesPlot	
						QPSK	16-QAM
26	819	26740	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

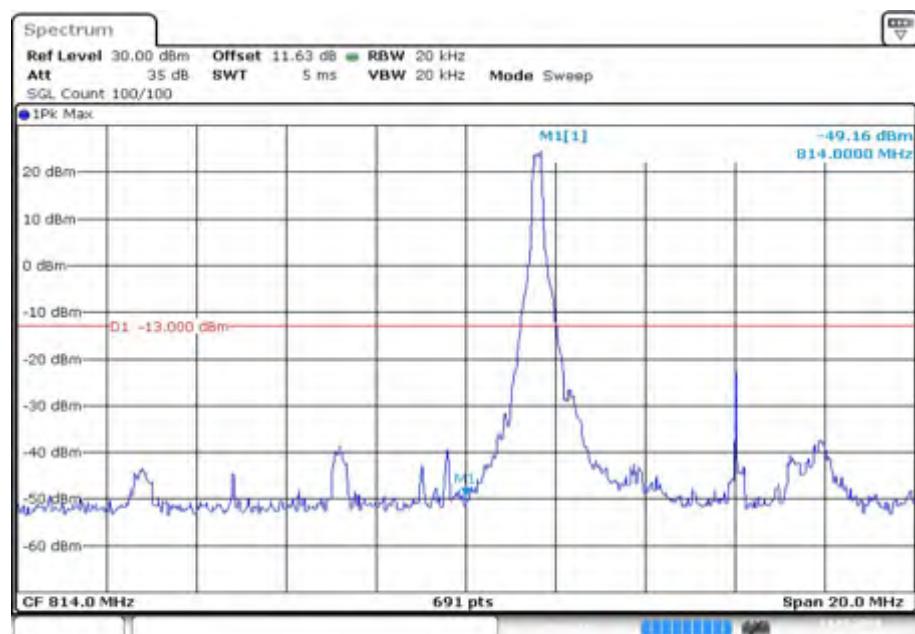


Fig.1

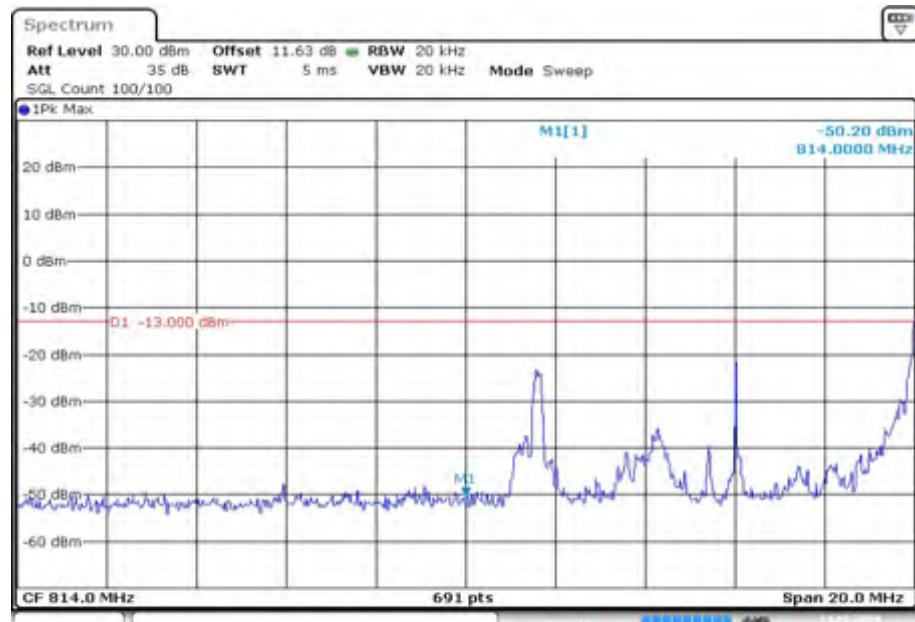


Fig.2

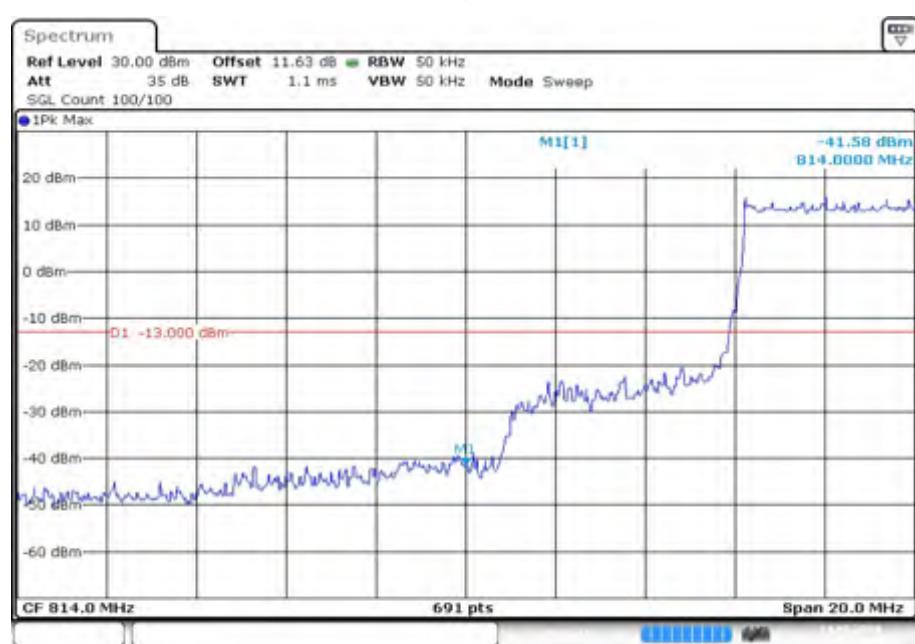
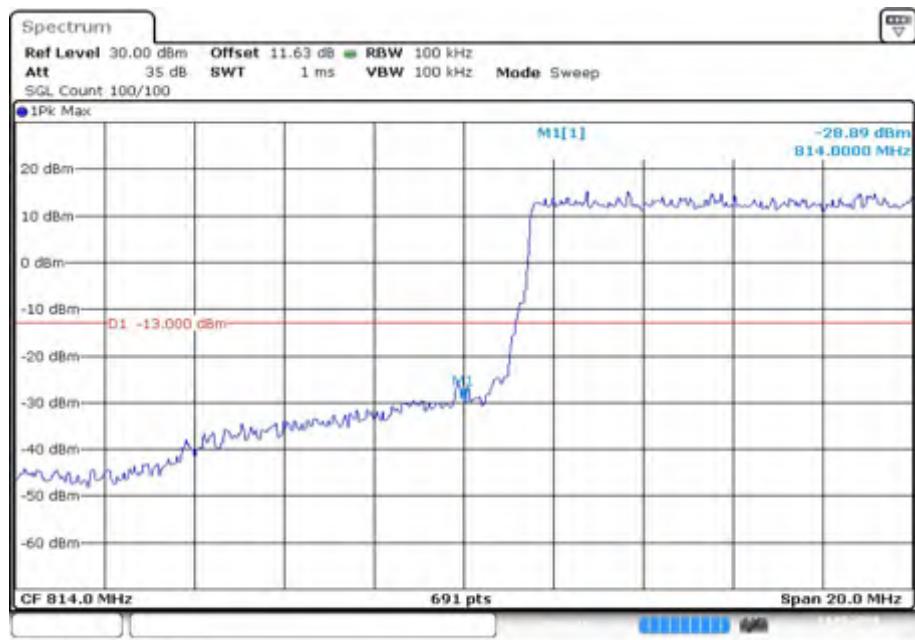
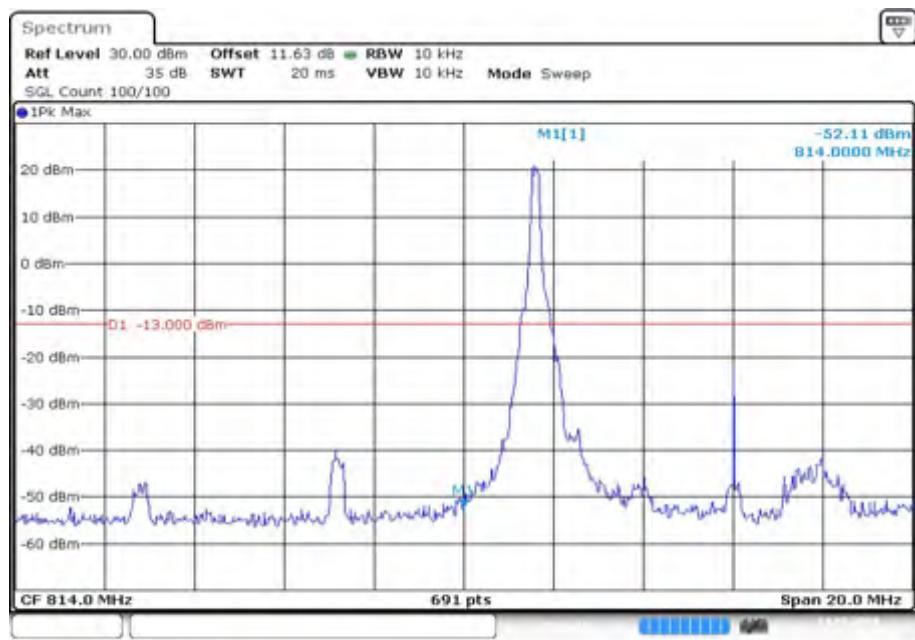


Fig.3



Date: 14.MAR.2018 15:56:17

Fig.4



Date: 14.MAR.2018 15:56:29

Fig.5

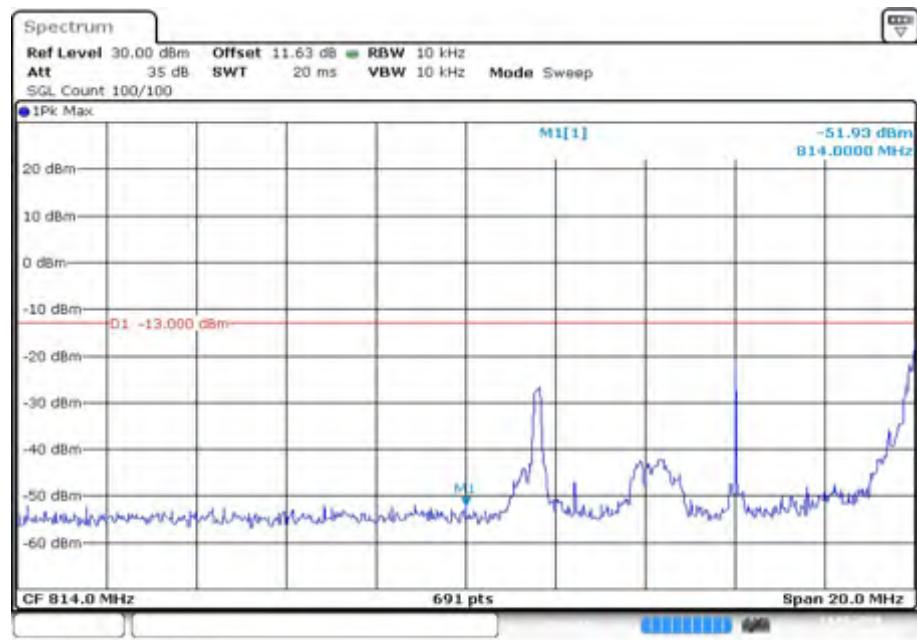


Fig.6

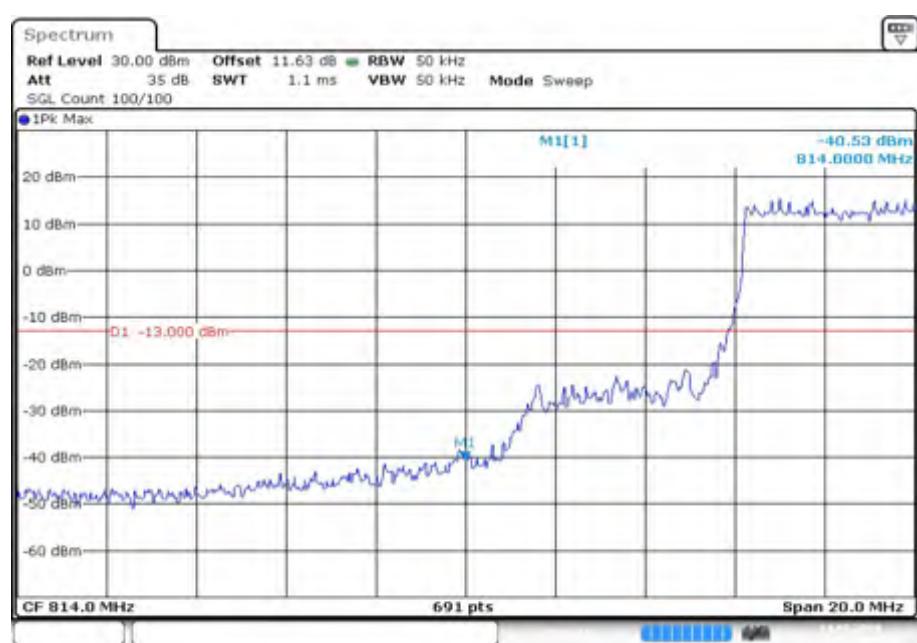
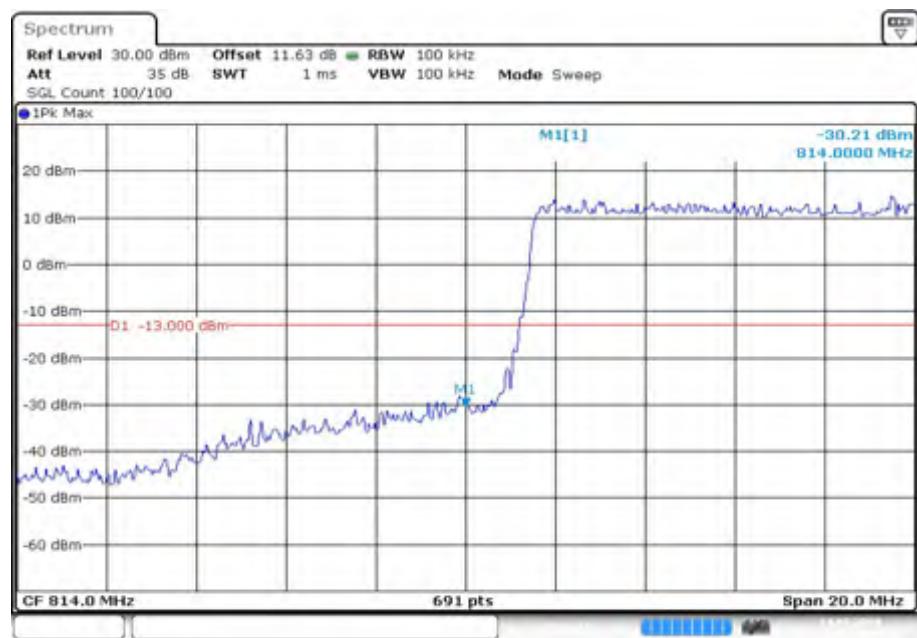


Fig.7



Date: 14 MAR 2018 15:56:59

Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot	
						QPSK	16-QAM
26	844	26990	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

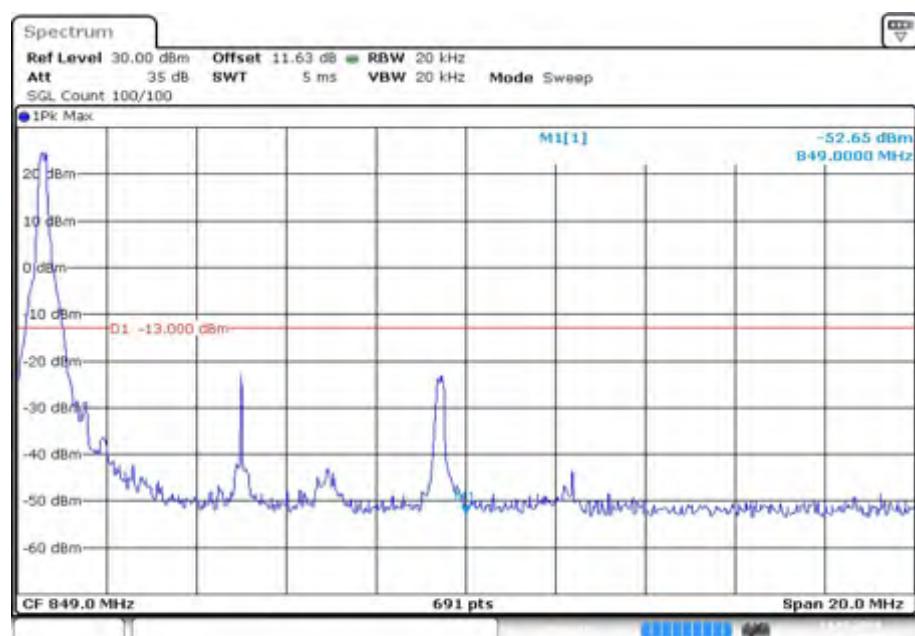


Fig.1

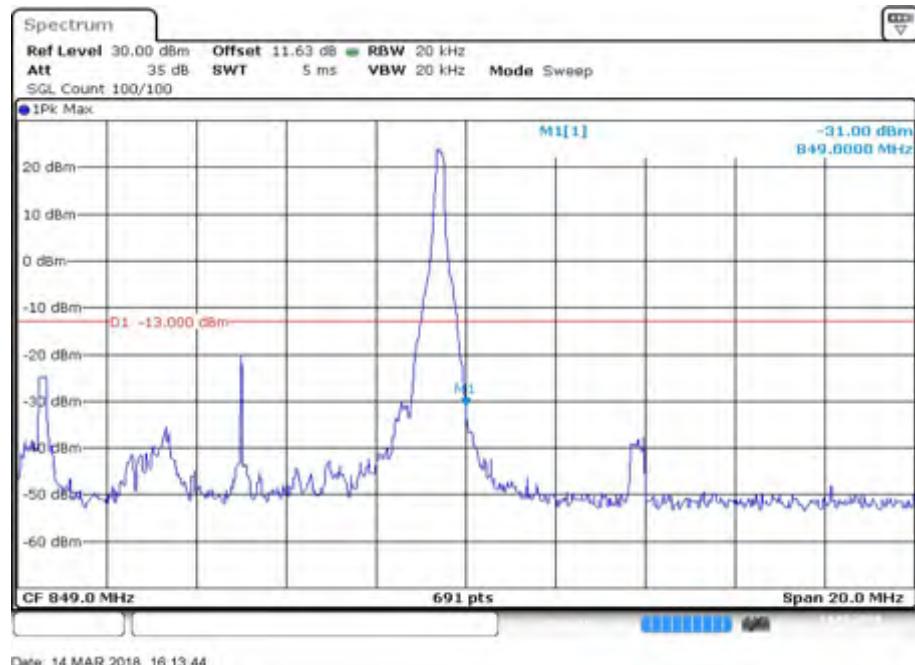


Fig.2

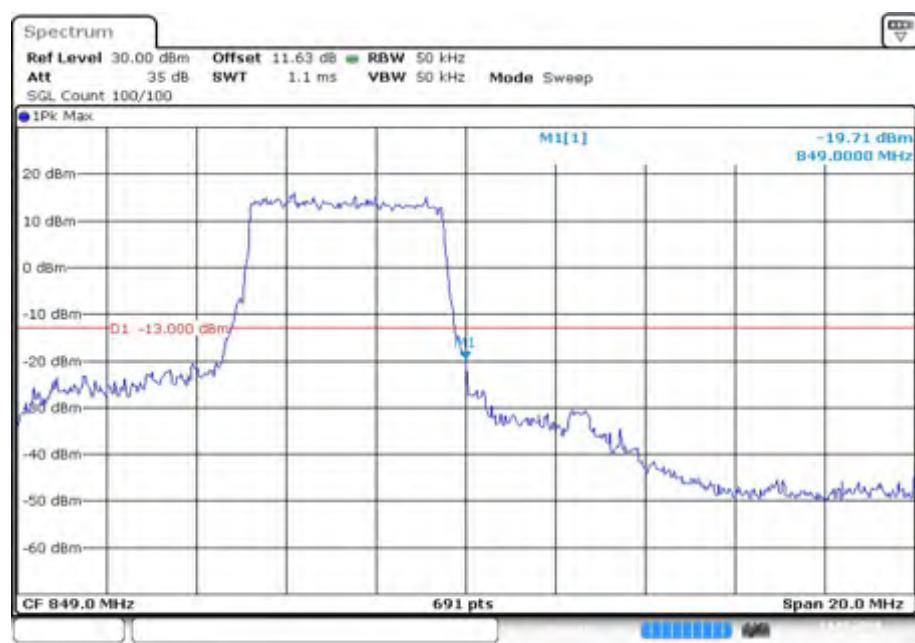


Fig.3



Fig.4

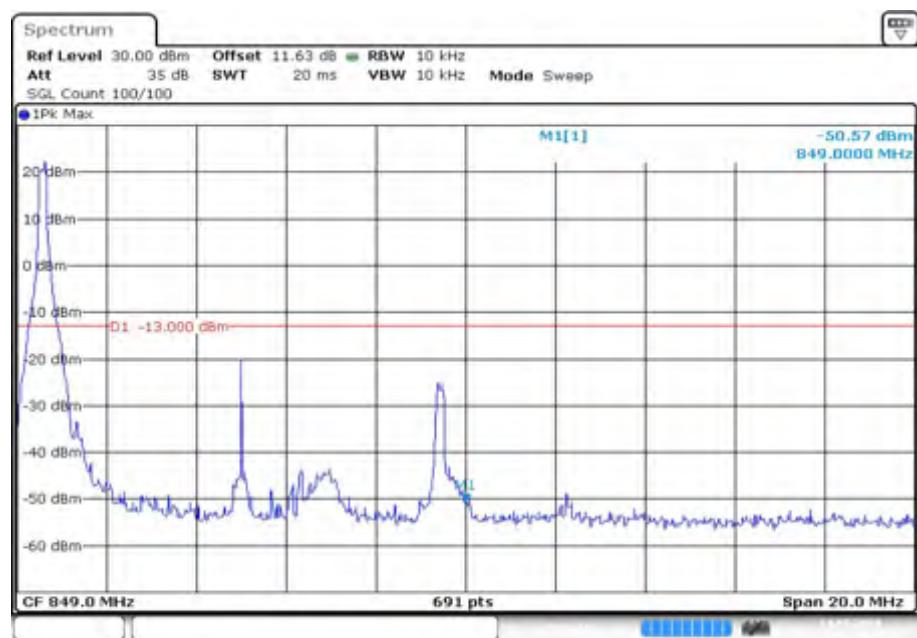


Fig.5

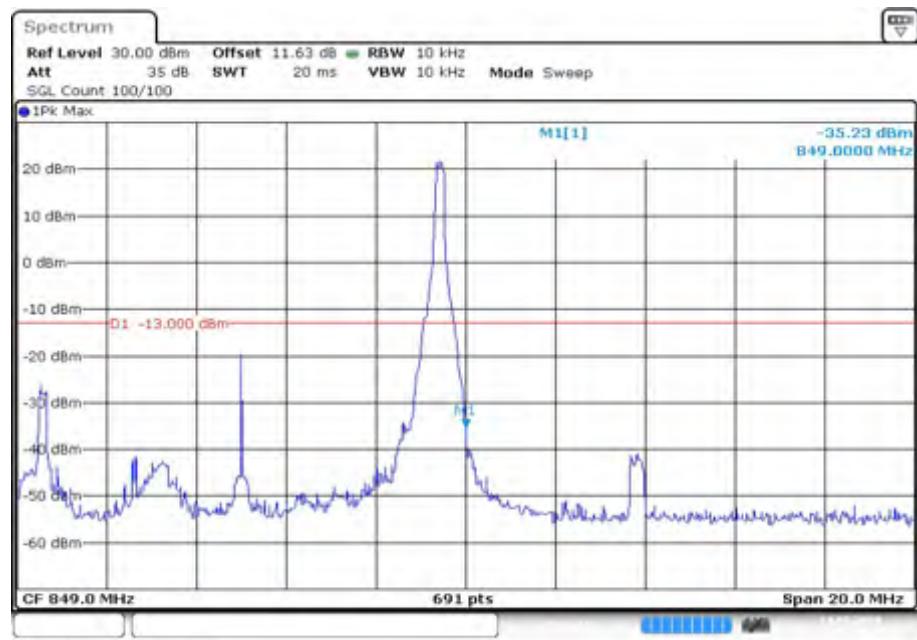


Fig.6

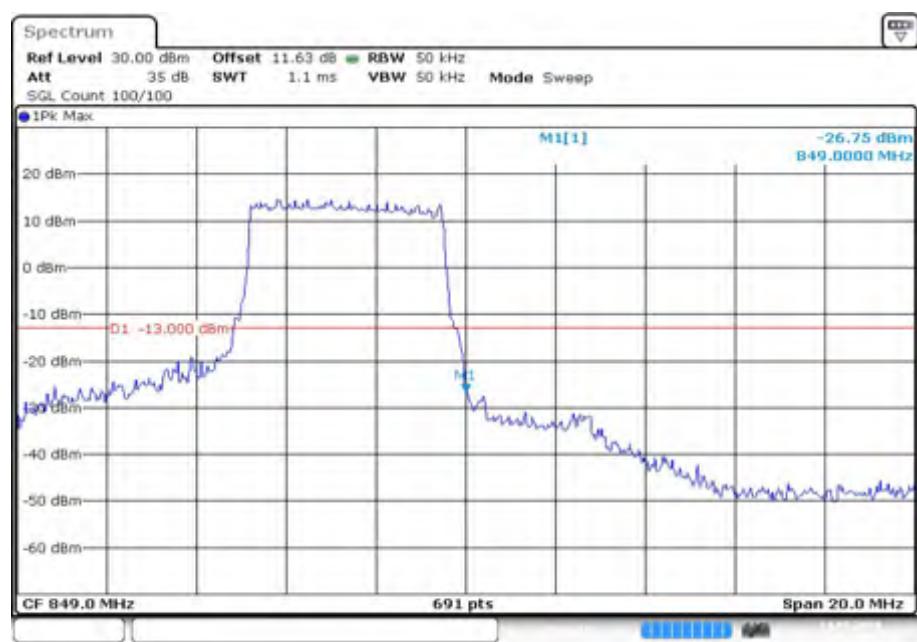
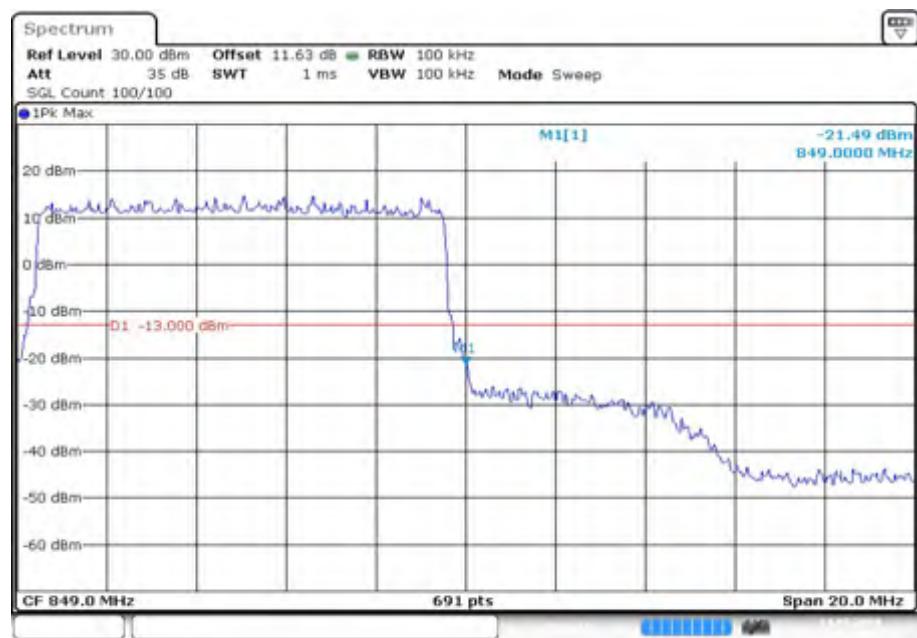


Fig.7



Date: 14 MAR 2018 16:14:45

Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band EdgesPlot	
						QPSK	16-QAM
26	821.5	26765	15	1	0	Fig.1	Fig.5
				1	74	Fig.2	Fig.6
				40	18	Fig.3	Fig.7
				75	0	Fig.4	Fig.8

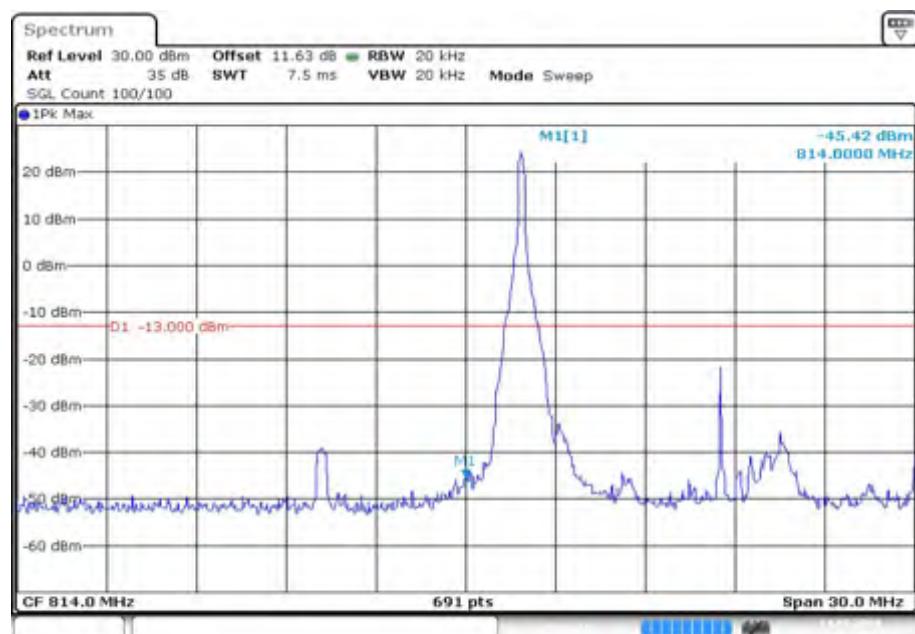
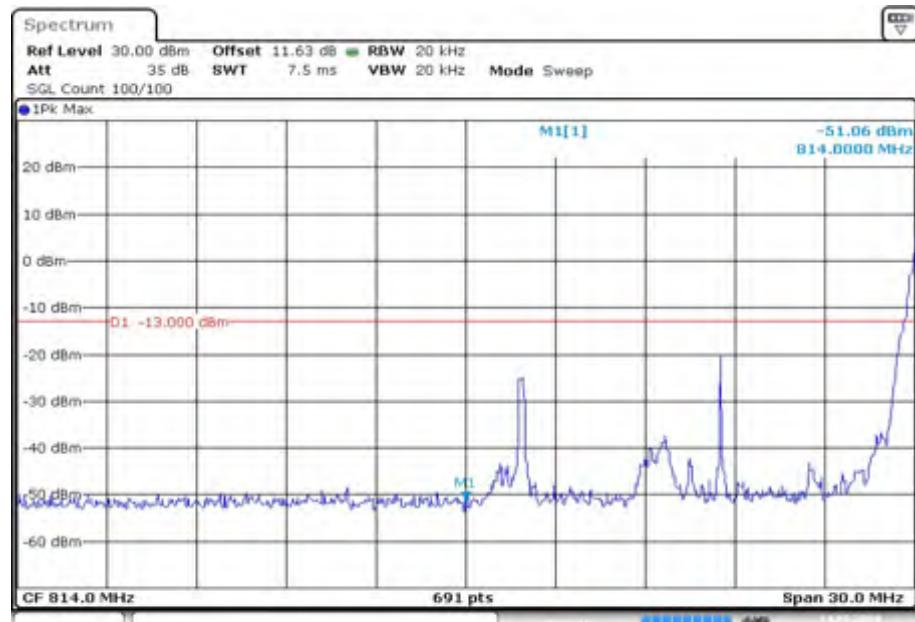
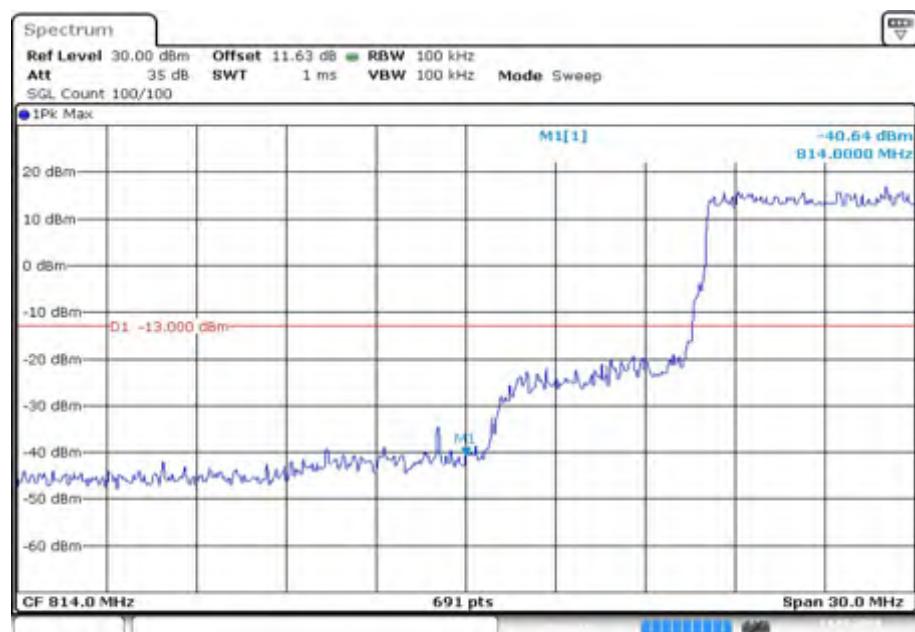


Fig.1



Date: 14 MAR 2018 16:23:06

Fig.2



Date: 14 MAR 2018 16:23:16

Fig.3

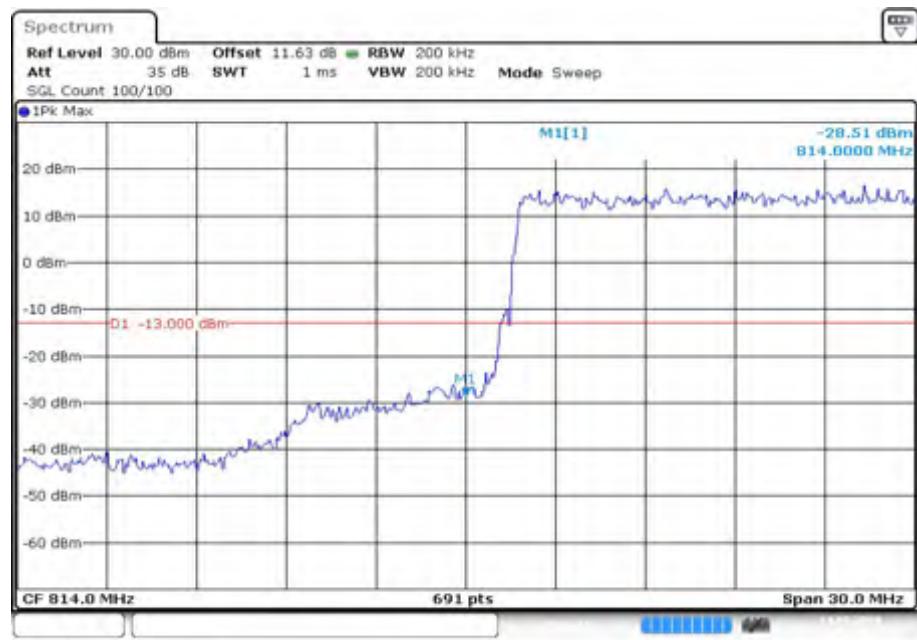


Fig.4

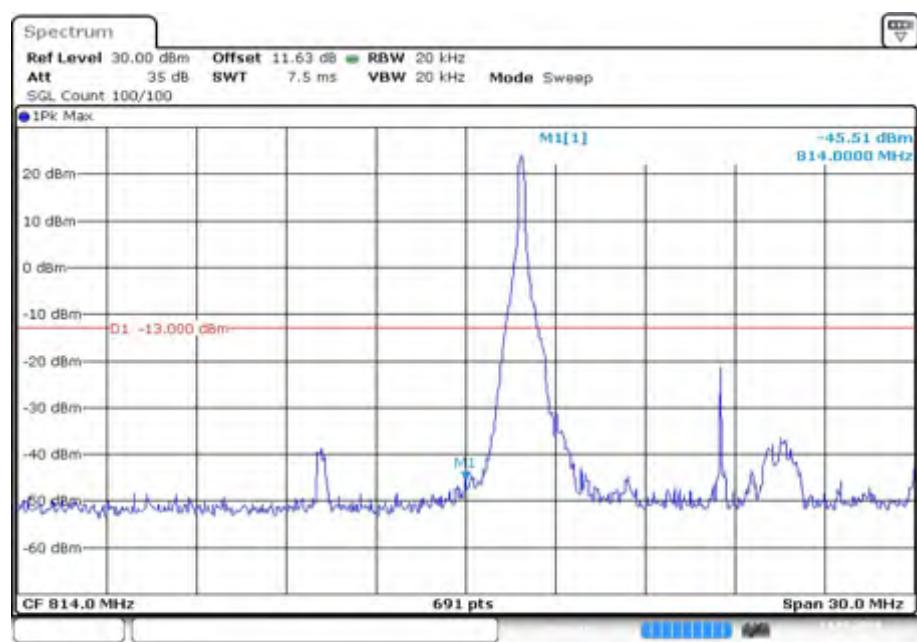
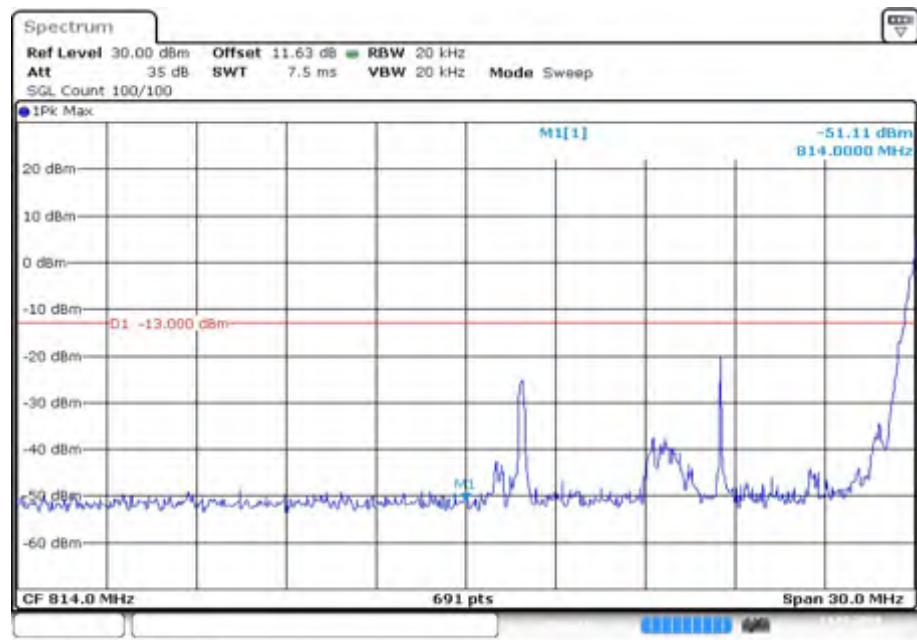
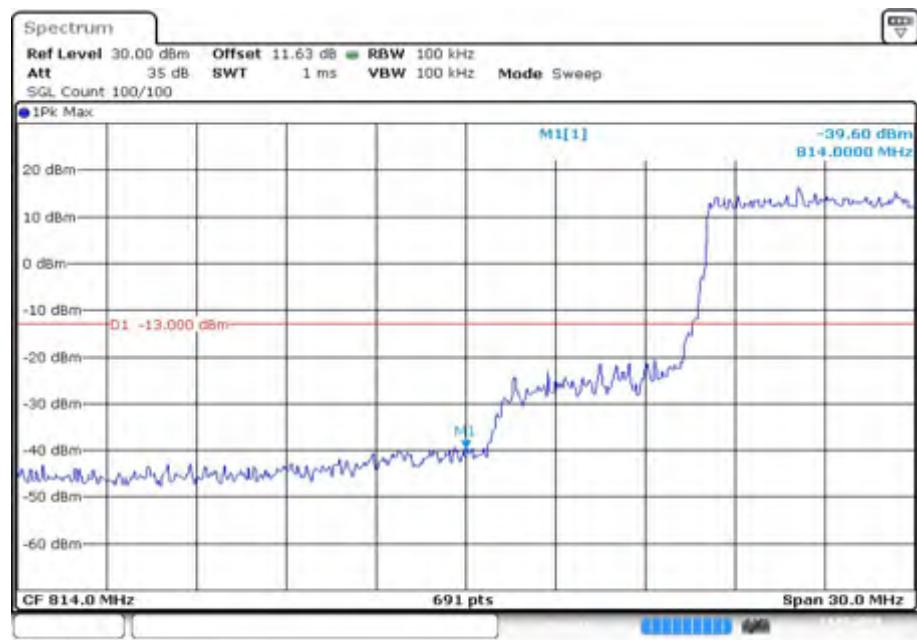


Fig.5



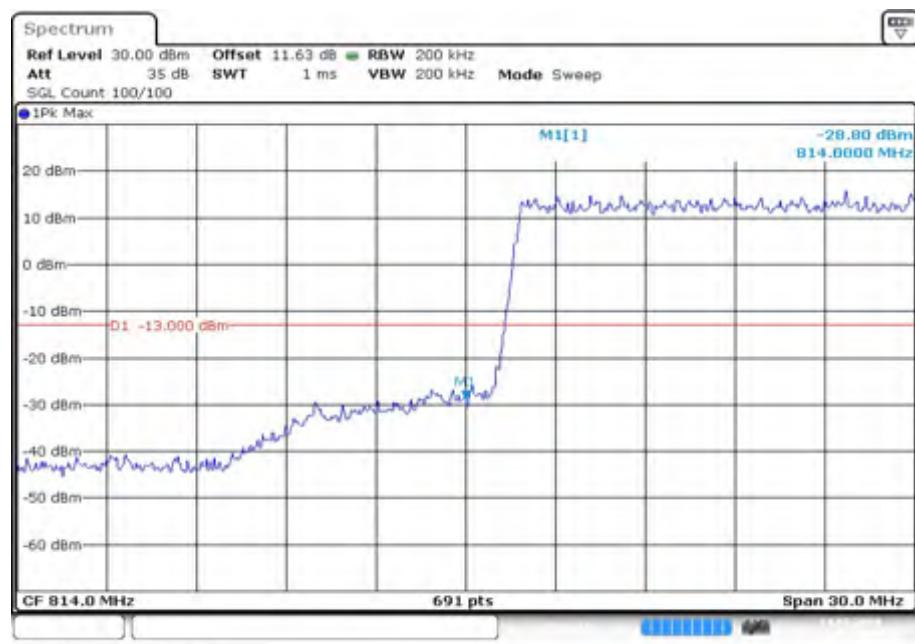
Date: 14.MAR.2018 16:23:44

Fig.6



Date: 14.MAR.2018 16:23:54

Fig.7



Date: 14 MAR 2018 16:24:03

Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot	
						QPSK	16-QAM
26	841.5	26965	15	1	0	Fig.1	Fig.5
				1	74	Fig.2	Fig.6
				40	18	Fig.3	Fig.7
				75	0	Fig.4	Fig.8

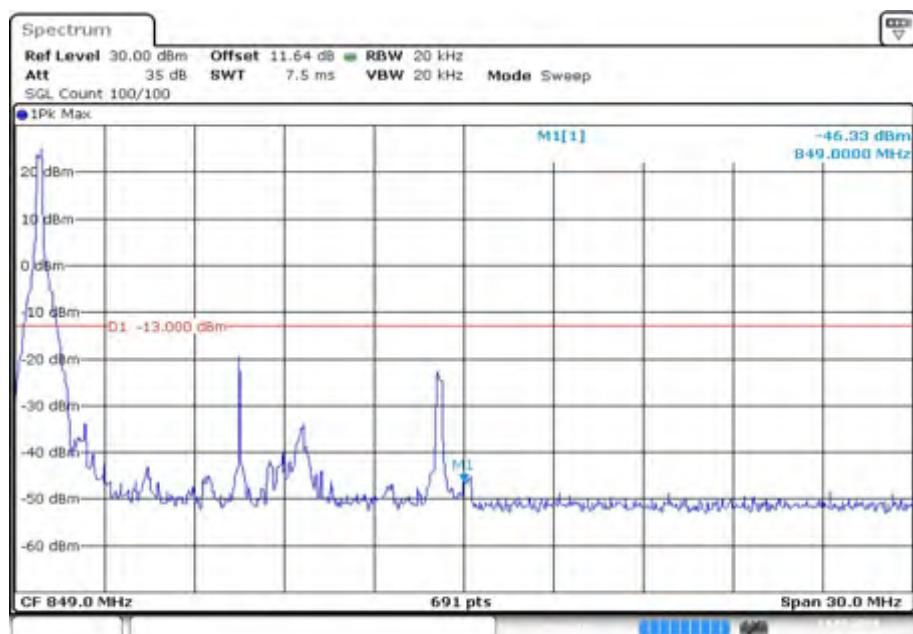
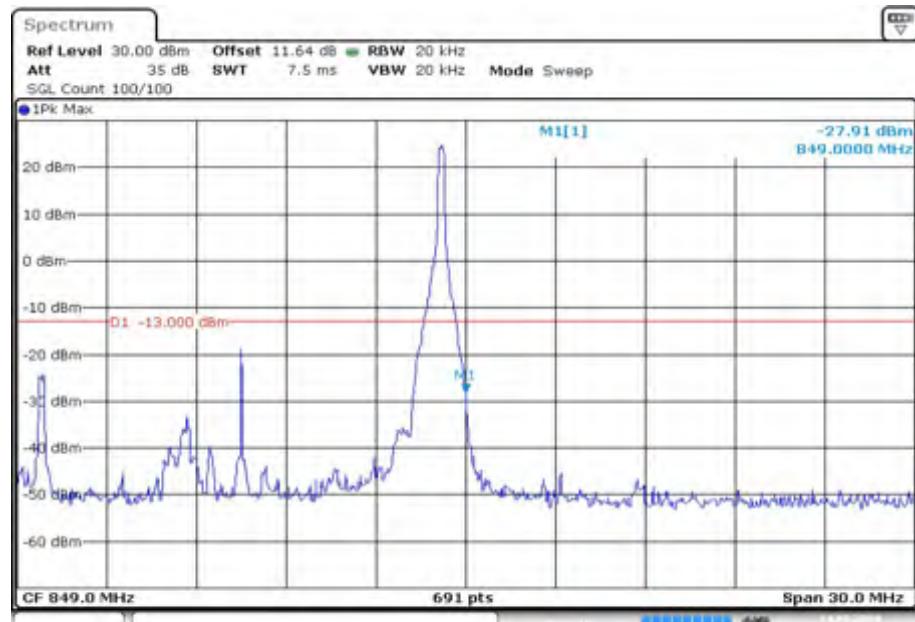
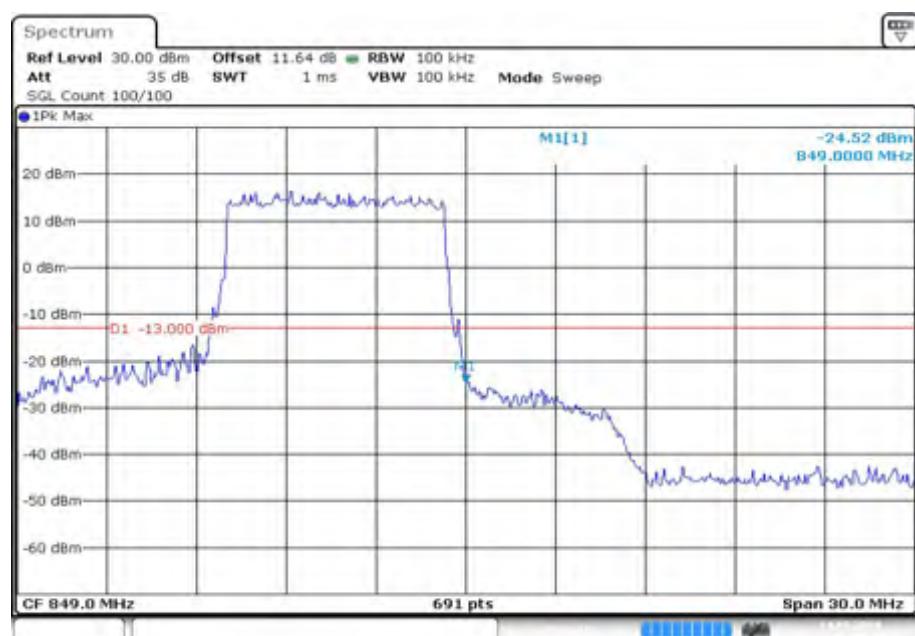


Fig.1



Date: 14 MAR 2018 16:40:47

Fig.2



Date: 14 MAR 2018 16:40:57

Fig.3

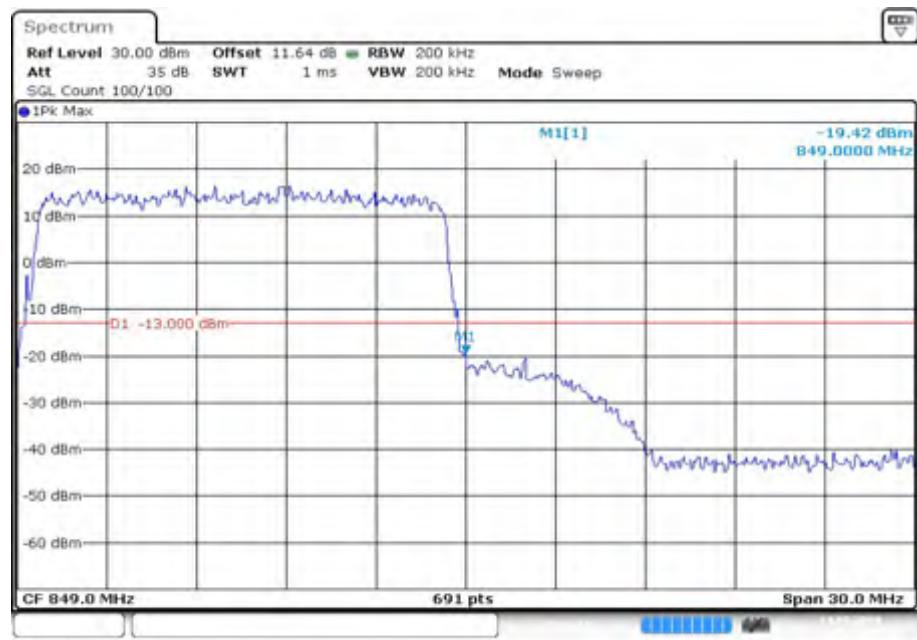


Fig.4

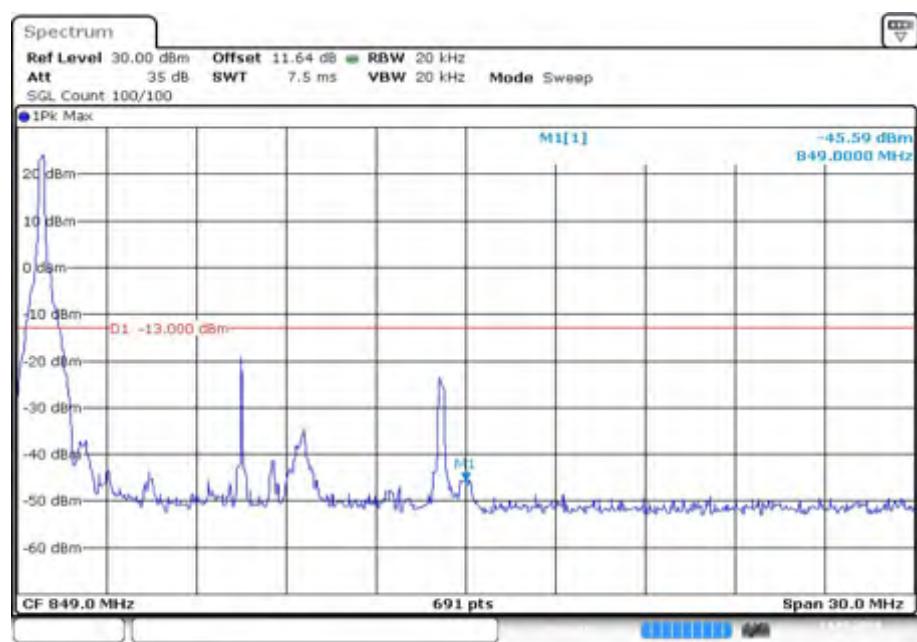


Fig.5

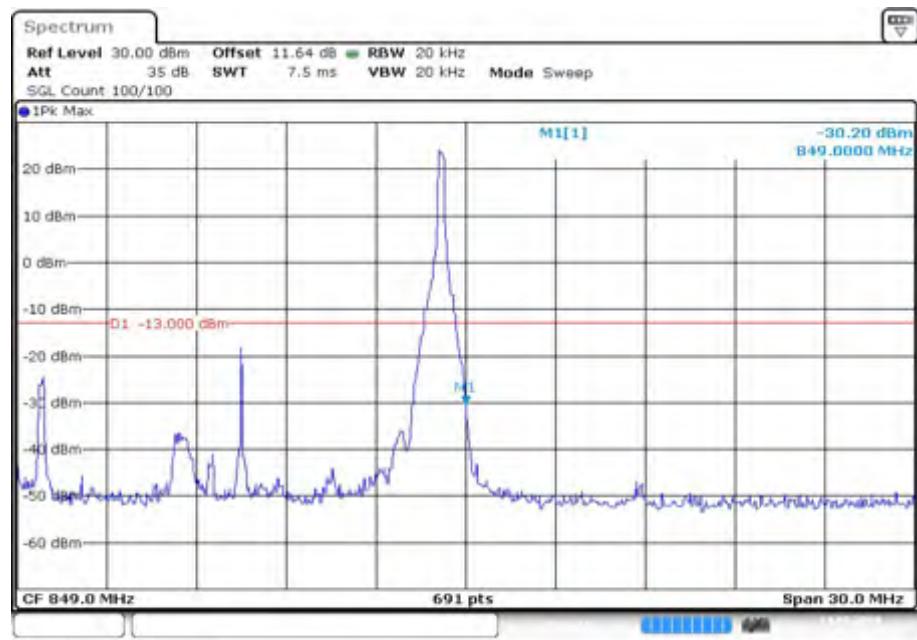


Fig.6

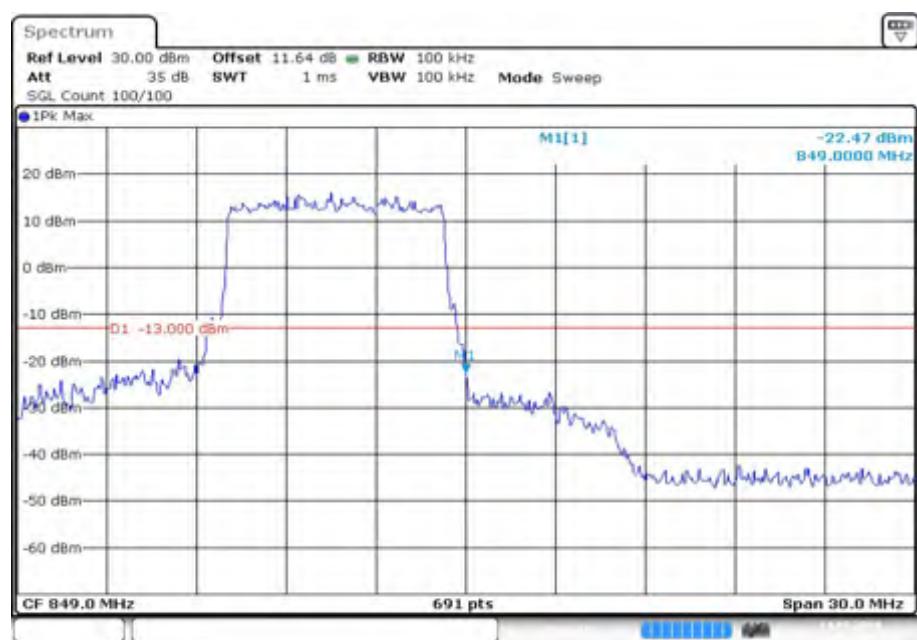


Fig.7

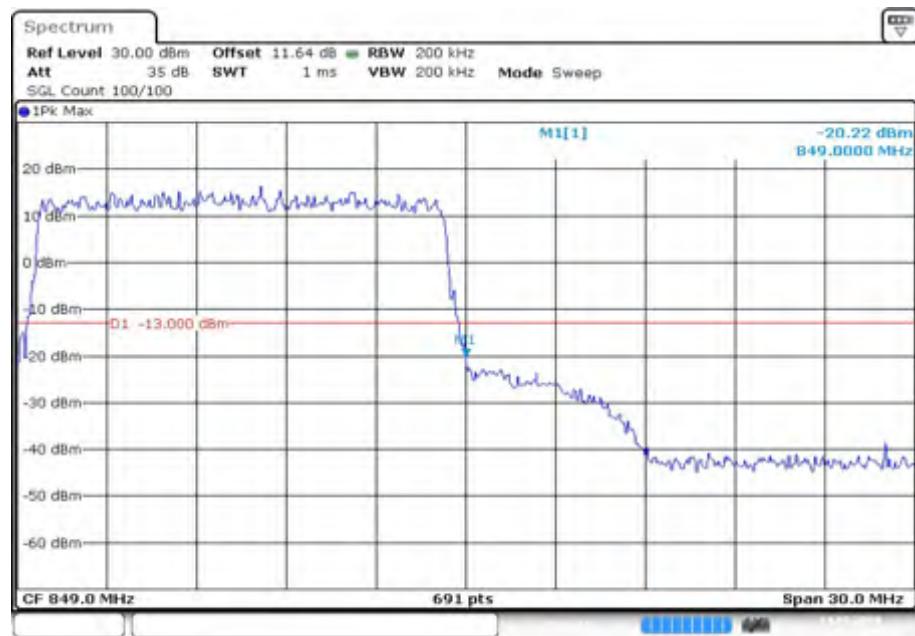
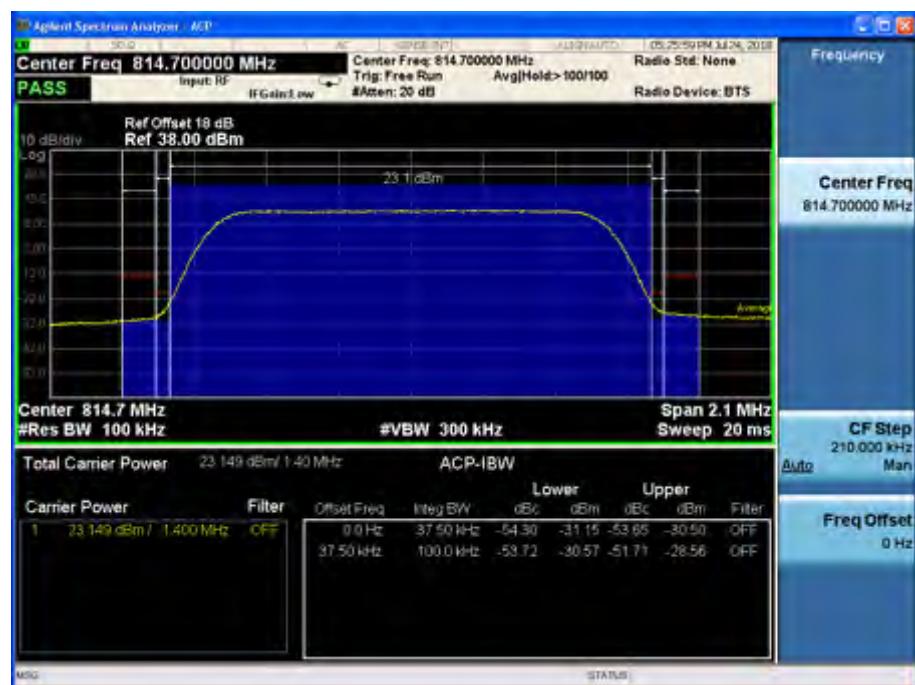


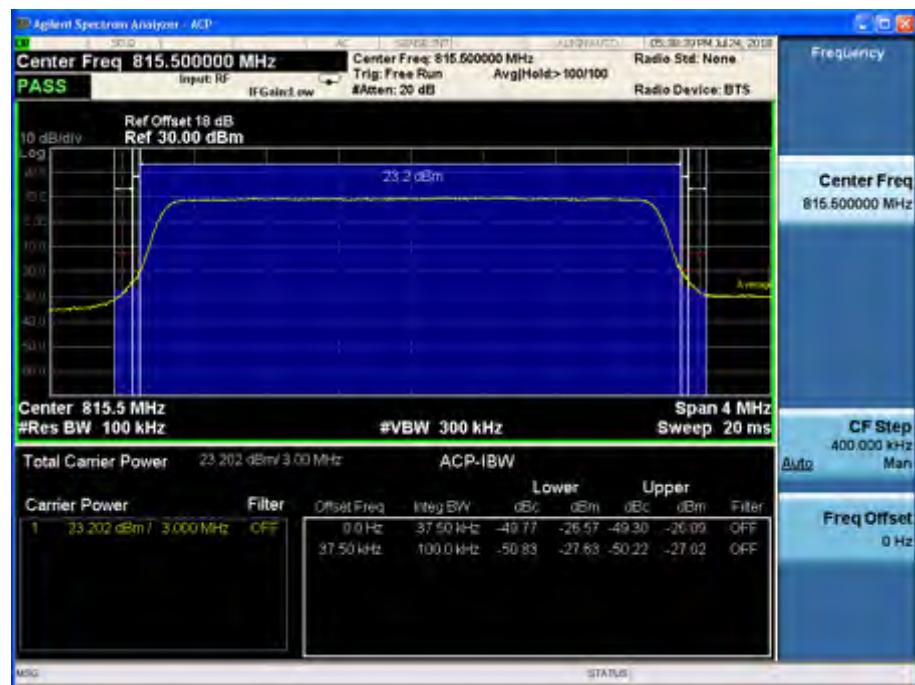
Fig.8



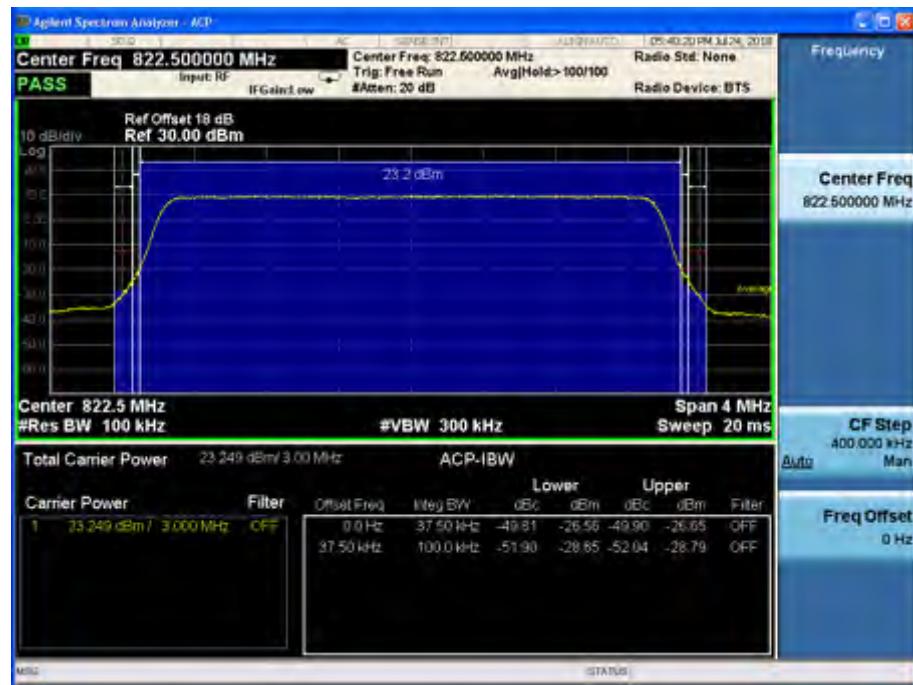
Emission Mask B26 1.4MHz QPSK Full RB Low Channel



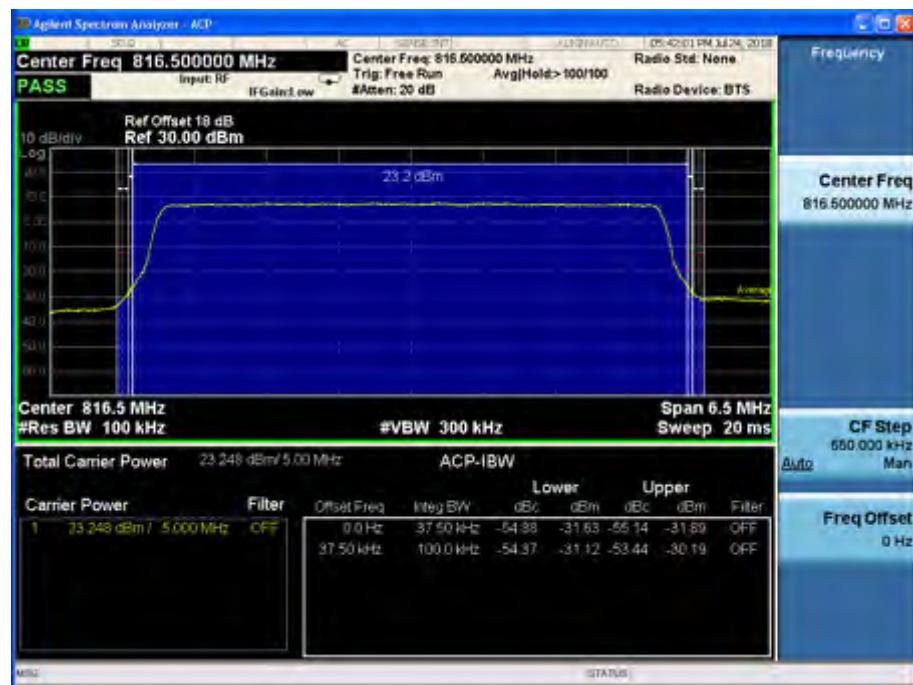
Emission Mask B26 1.4MHz QPSK Full RB High Channel



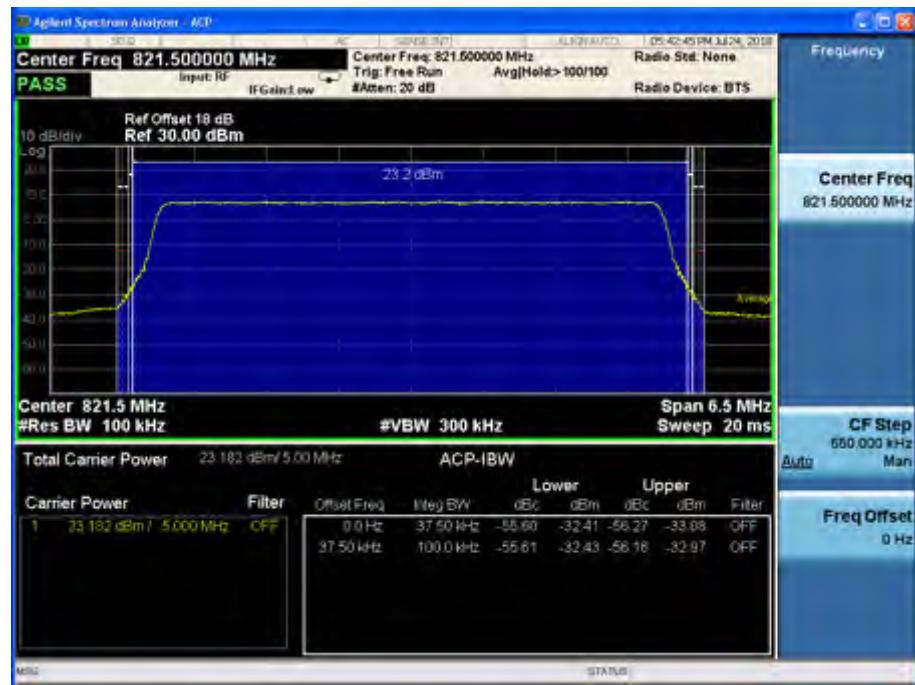
Emission Mask B26 3MHz QPSK Full RB Low Channel



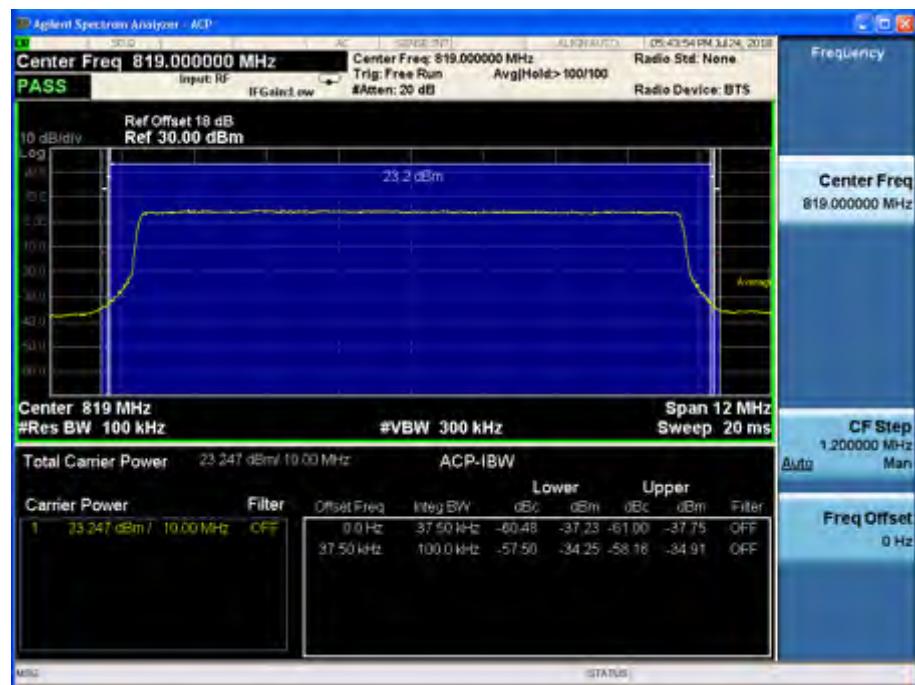
Emission Mask B26 3MHz QPSK Full RB High Channel



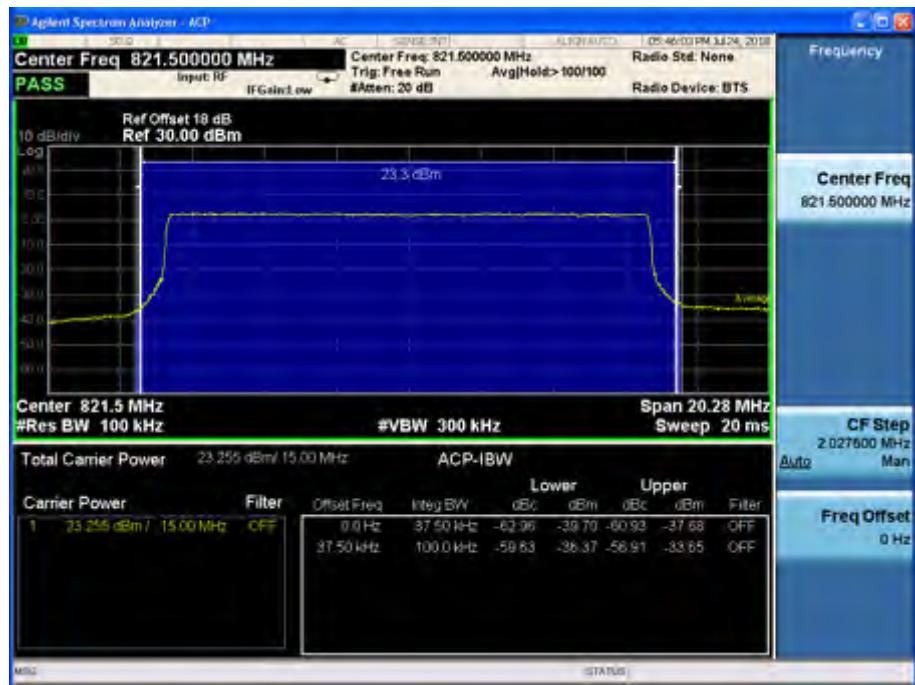
Emission Mask B26 5MHz QPSK Full RB Low Channel



Emission Mask B26 5MHz QPSK Full RB High Channel



Emission Mask B26 10MHz QPSK Full RB



Emission Mask B26 15MHz QPSK Full RB

Note: Expanded measurement uncertainty is  $U = 0.488\text{dB}(100\text{KHz}-2\text{GHz})/1.211\text{dB}(2\text{GHz}-26.5\text{GHz})$ ,  $k = 1.96$

## **A.7 CONDUCTED SPURIOUS EMISSION**

### **Reference**

FCC: CFR Part 2.1051, 90.691.

### **A.7.1 Measurement Method**

The following steps outline the procedure used to measure the conducted emissions from the EUT.

1. Determine frequency range for measurements: From CFR 2.1051 the spectrum should be investigated from the lowest radio frequency generated in the equipment up to at least the 10th harmonic of the carrier frequency. For the mobile station equipment tested, this equates to a frequency range of 13 MHz to 9 GHz, data taken from 10 MHz to 25 GHz.
2. Determine EUT transmit frequencies: below outlines the band edge frequencies pertinent to conducted emissions testing.
3. The number of sweep points of spectrum analyzer is set to 30001 which is greater than span/RBW.

### **A.7.2 Measurement Limit**

Part 90.691 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

## A. 7.3 Measurement result

## LTE band 14

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
14	795.5	23355	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

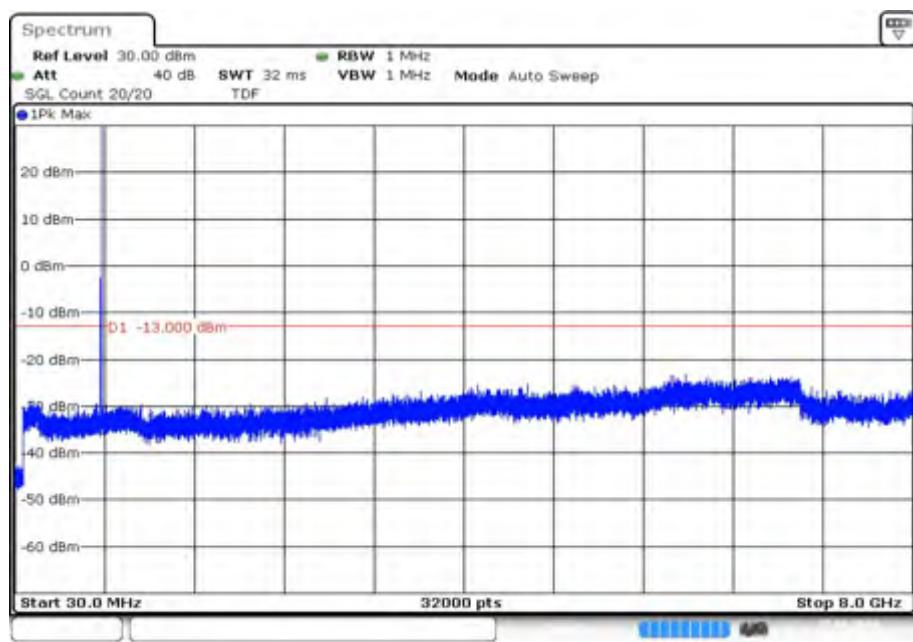


Fig.1

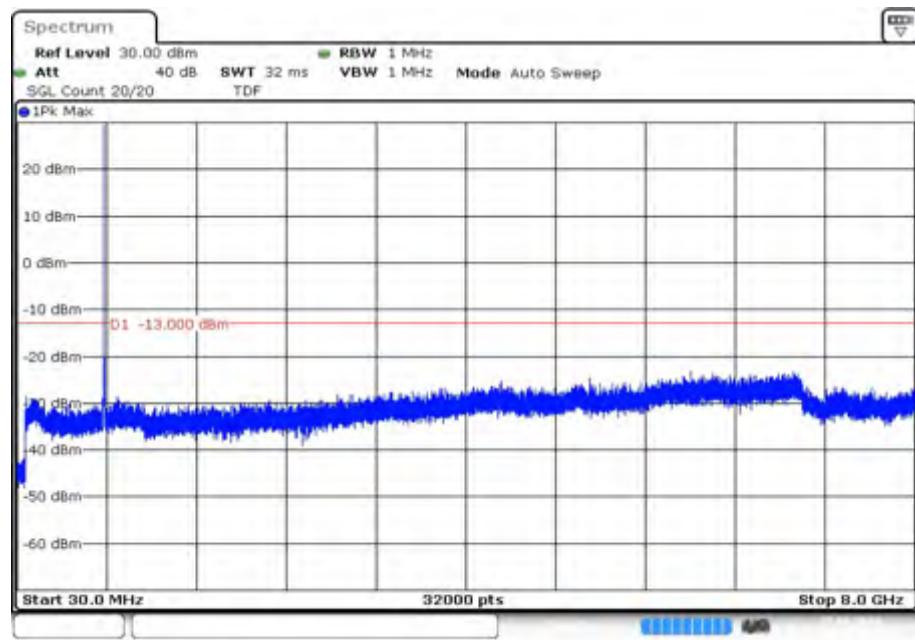


Fig.2

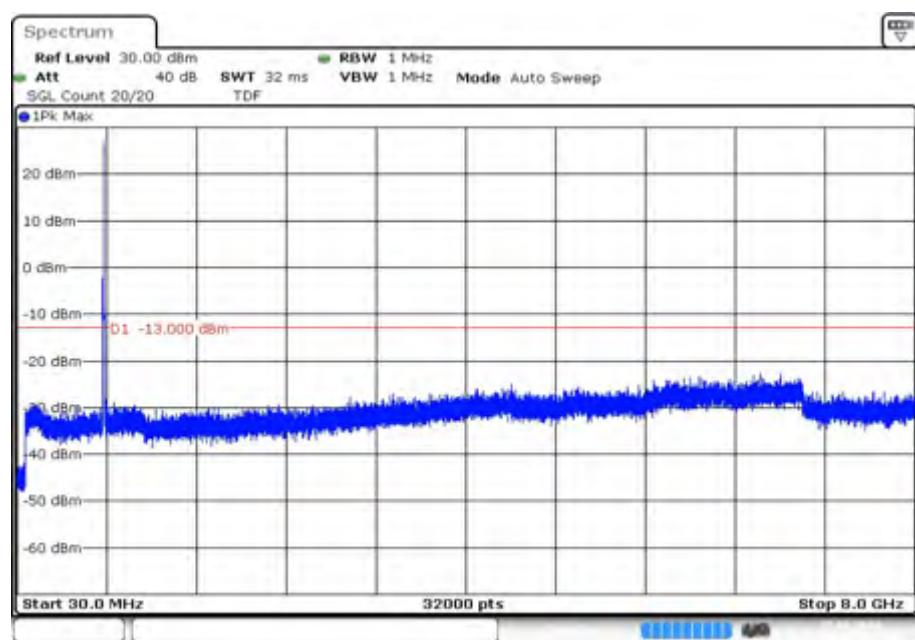


Fig.3

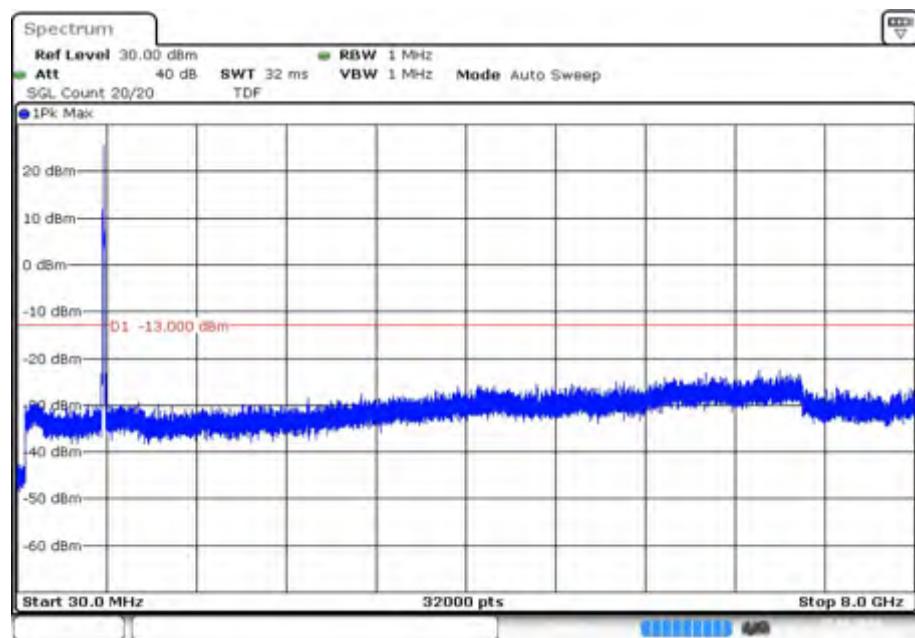


Fig.4

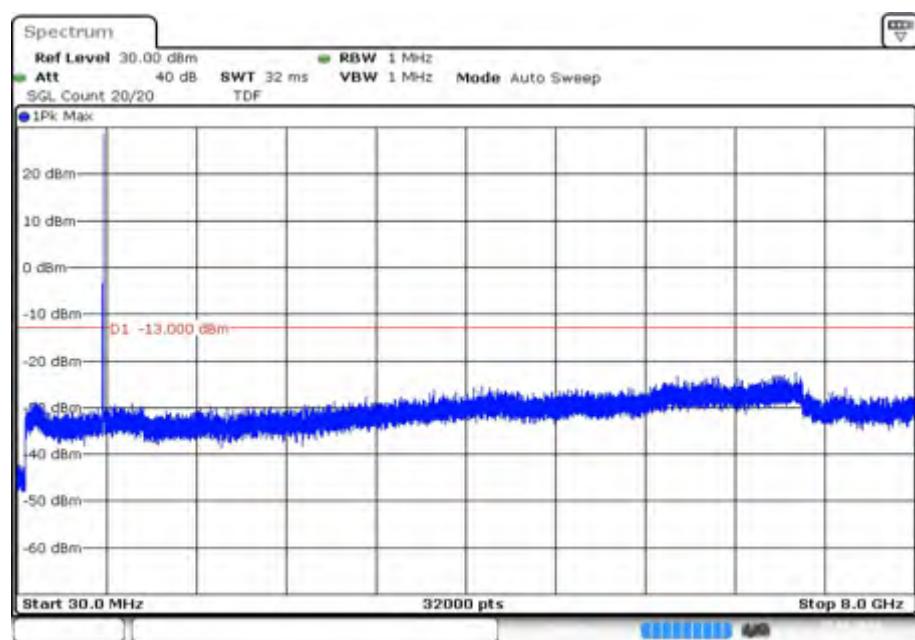
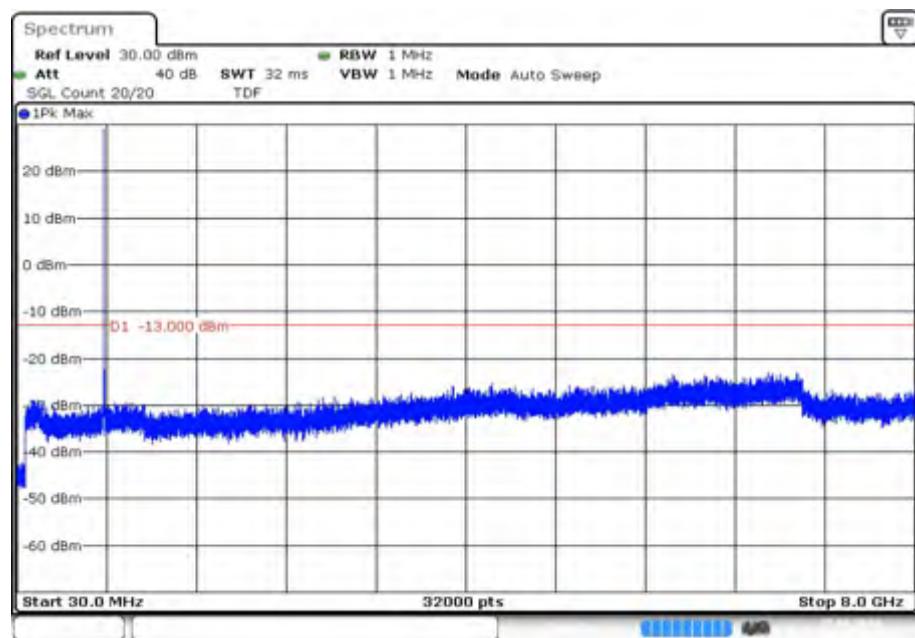
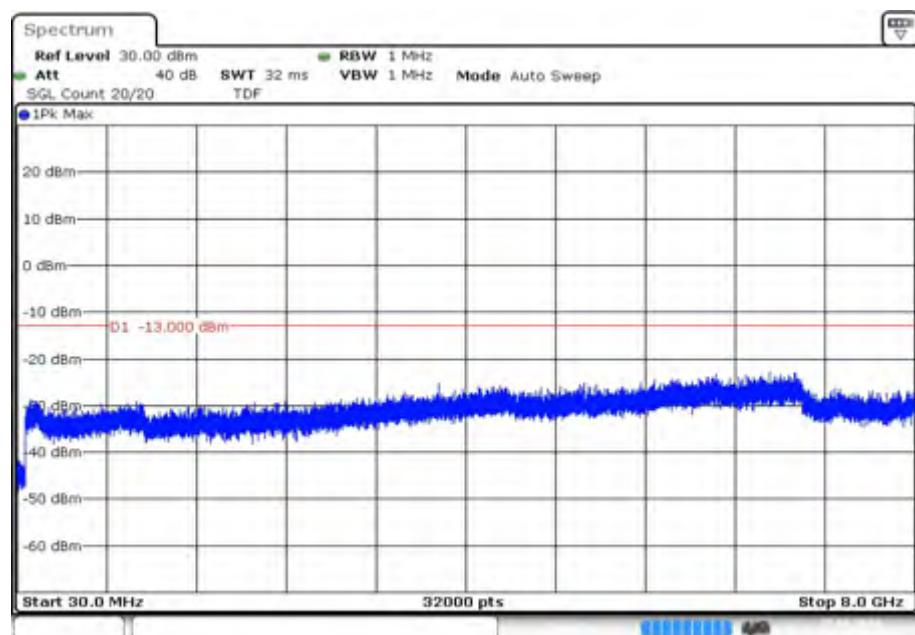


Fig.5



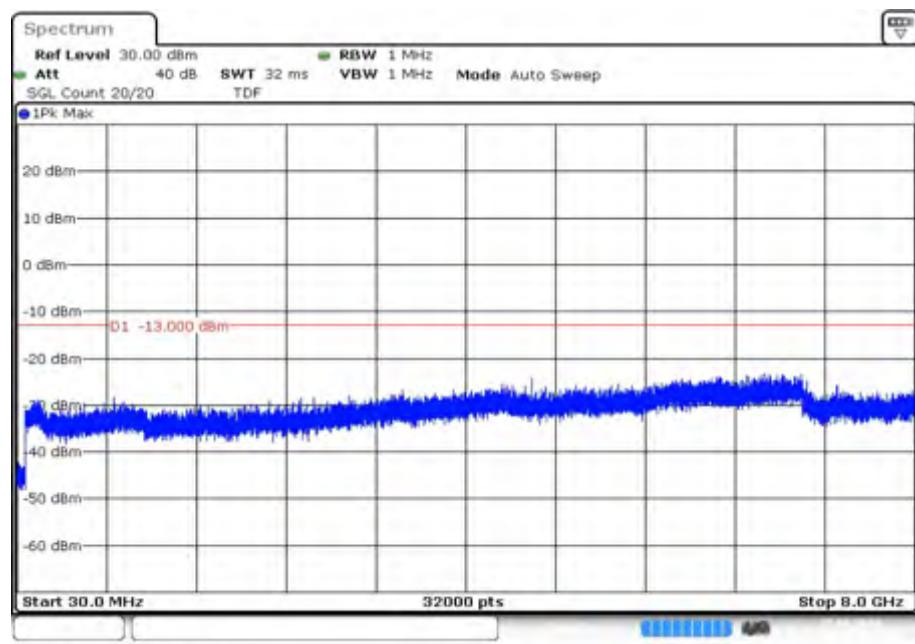
Date: 15 MAR 2018 02:26:38

Fig.6



Date: 15 MAR 2018 02:26:51

Fig.7



Date: 15 MAR 2018 02:27:11

Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
14	790.5	23305	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

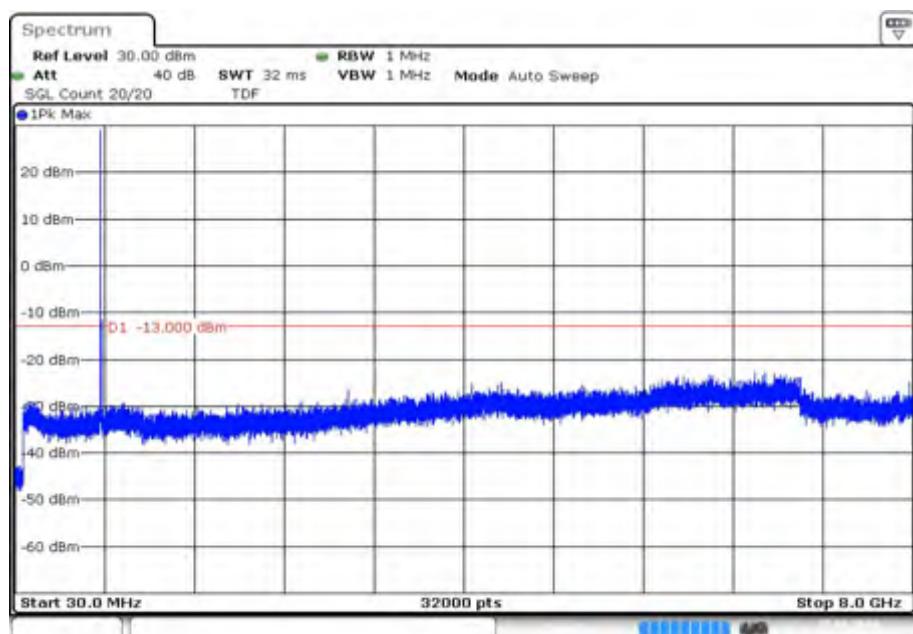
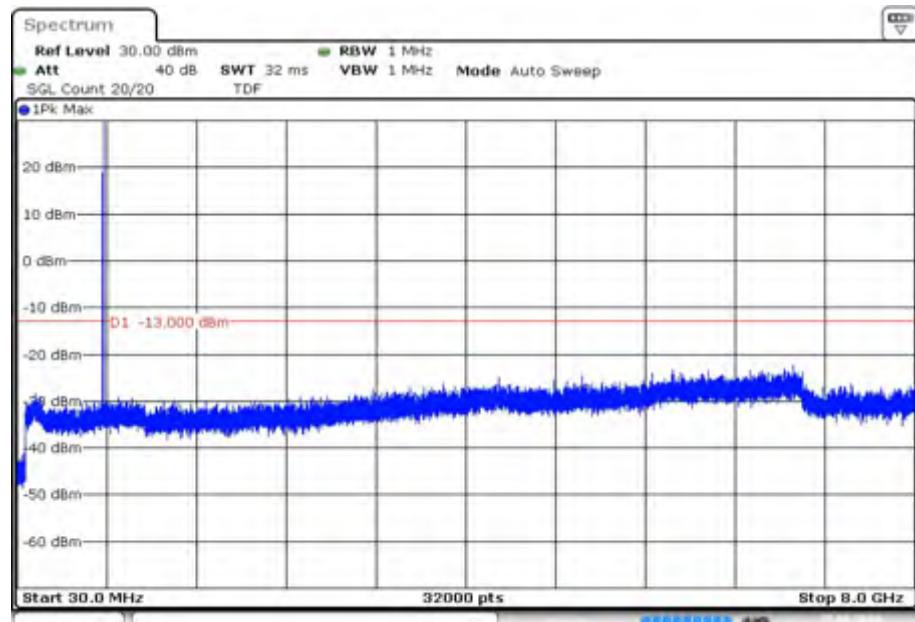
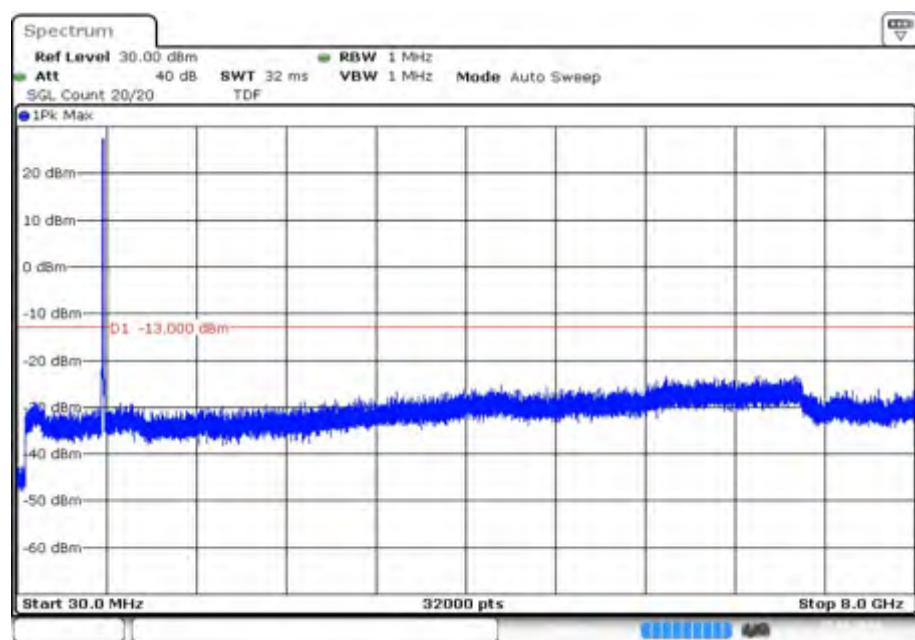


Fig.1



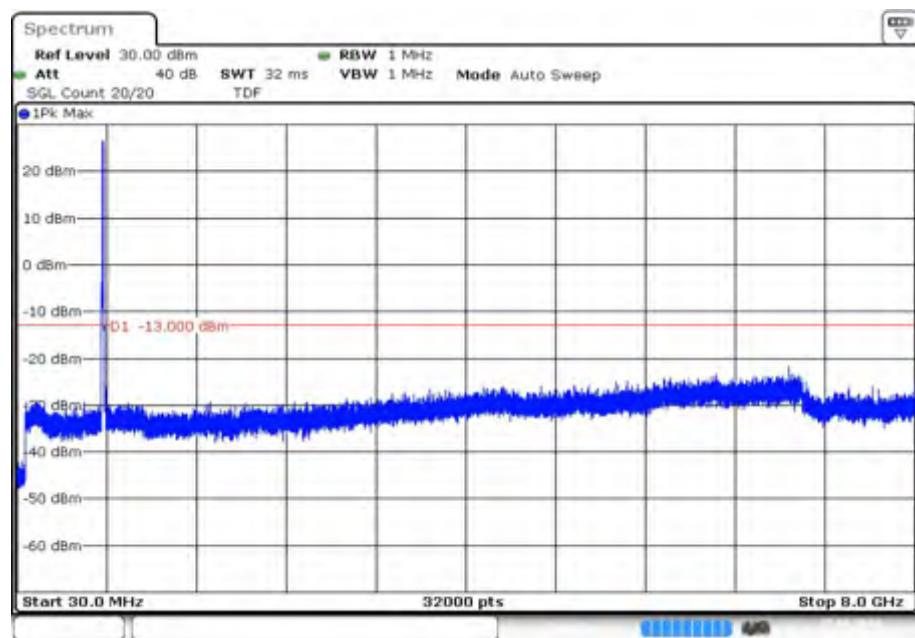
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Fig.2



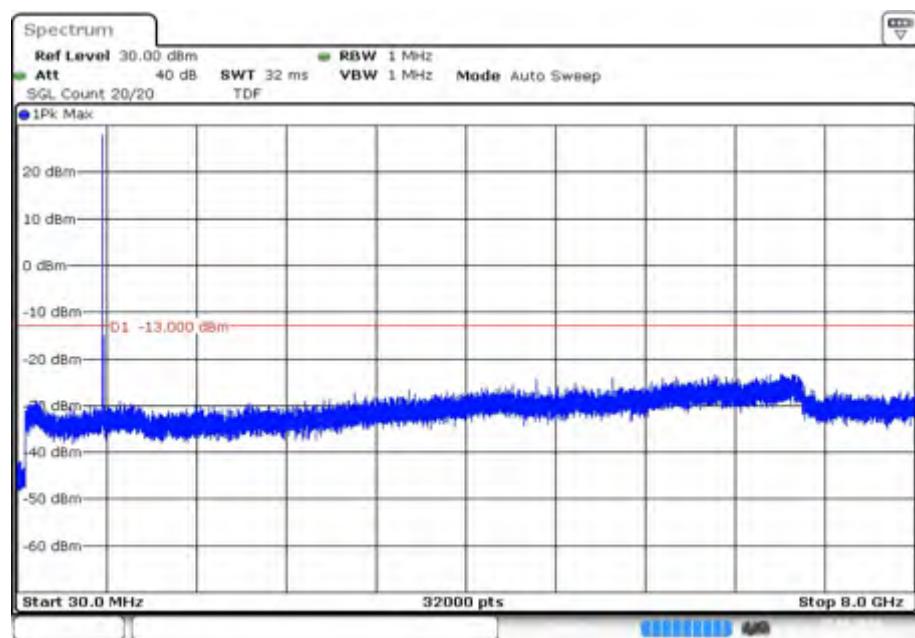
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Fig.3



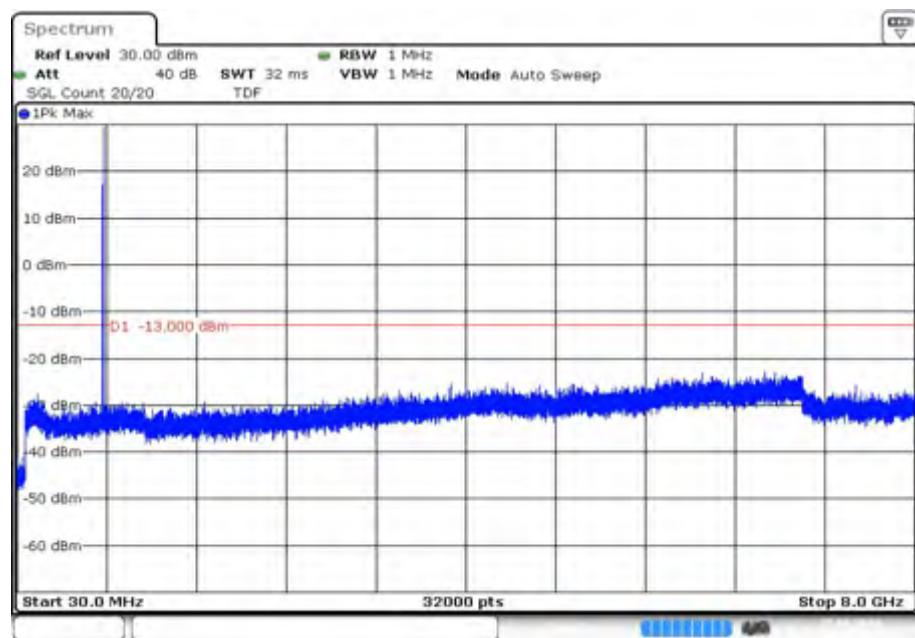
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Fig.4



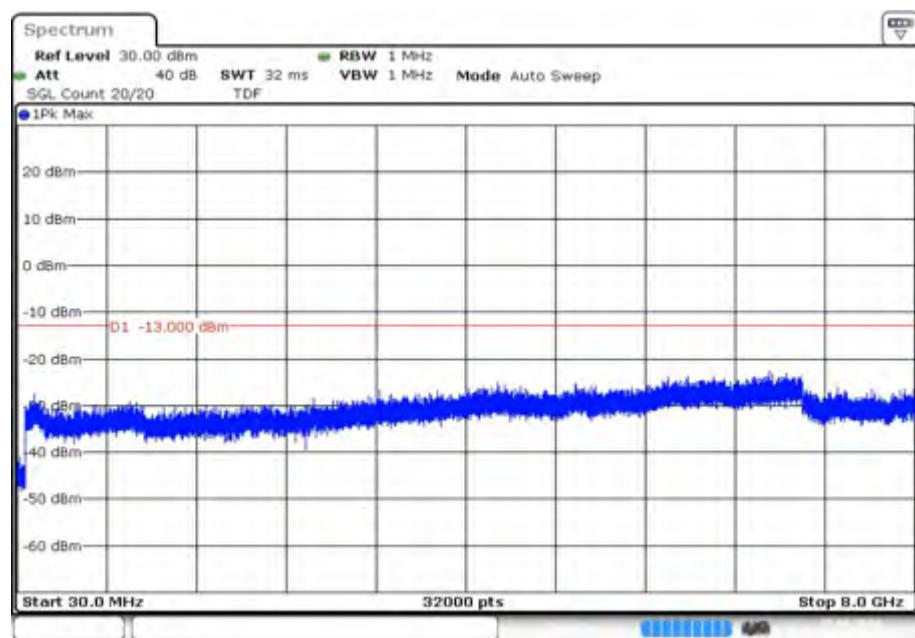
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Fig.5



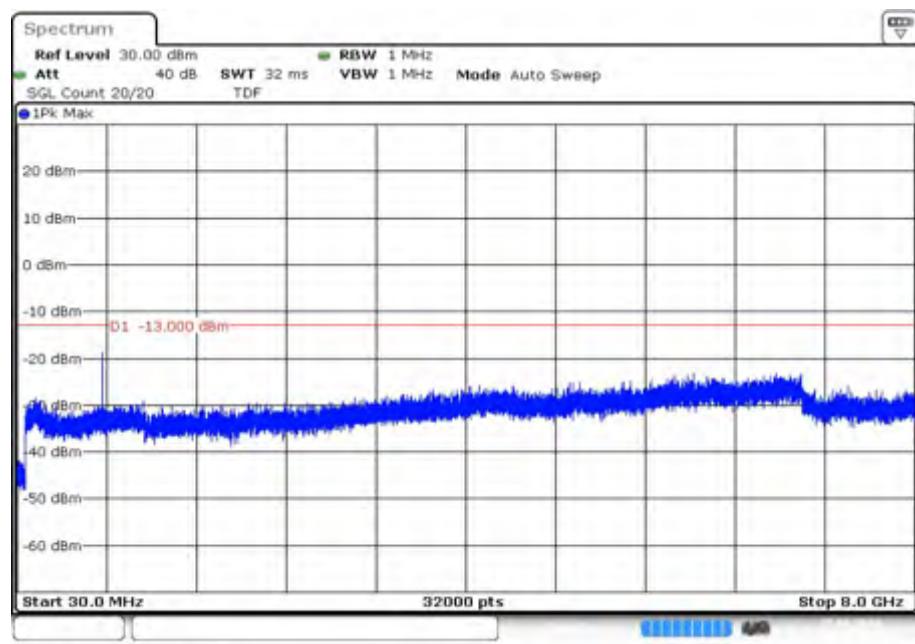
Date: 15.MAR.2018 02:46:46

Fig.6



Date: 15.MAR.2018 02:46:58

Fig.7



Date: 15 MAR 2018 02:47:19

Fig.8

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
14	793	23330	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

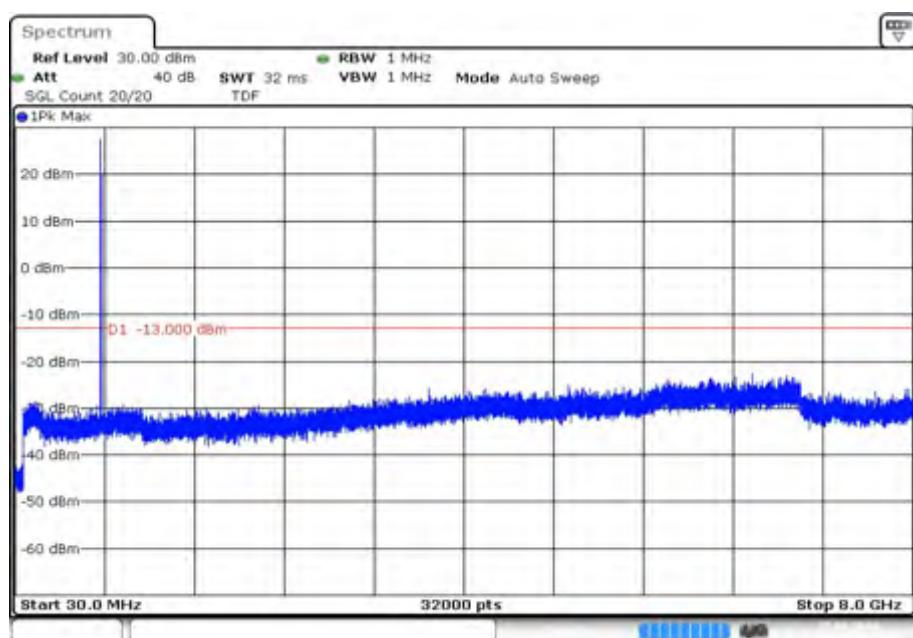
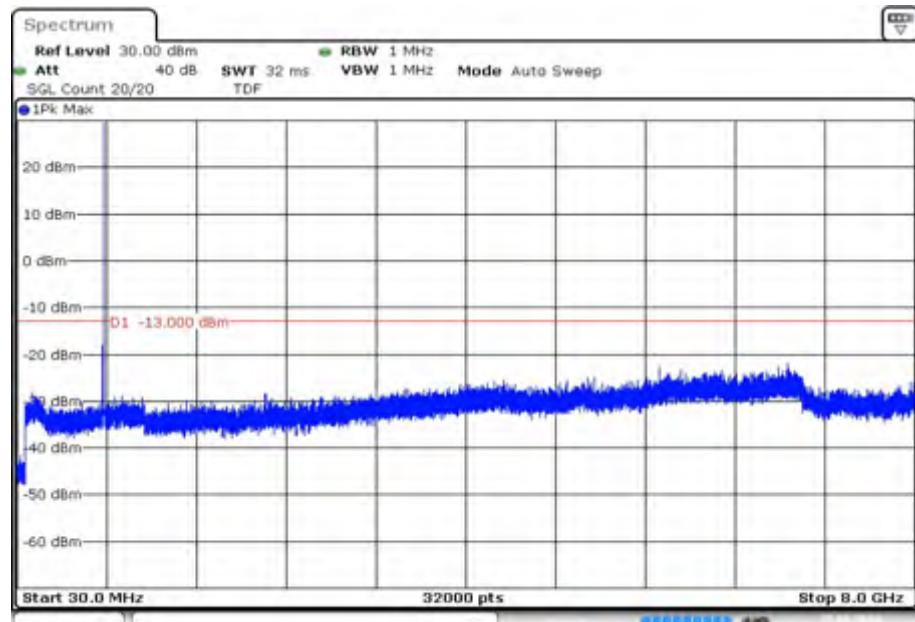
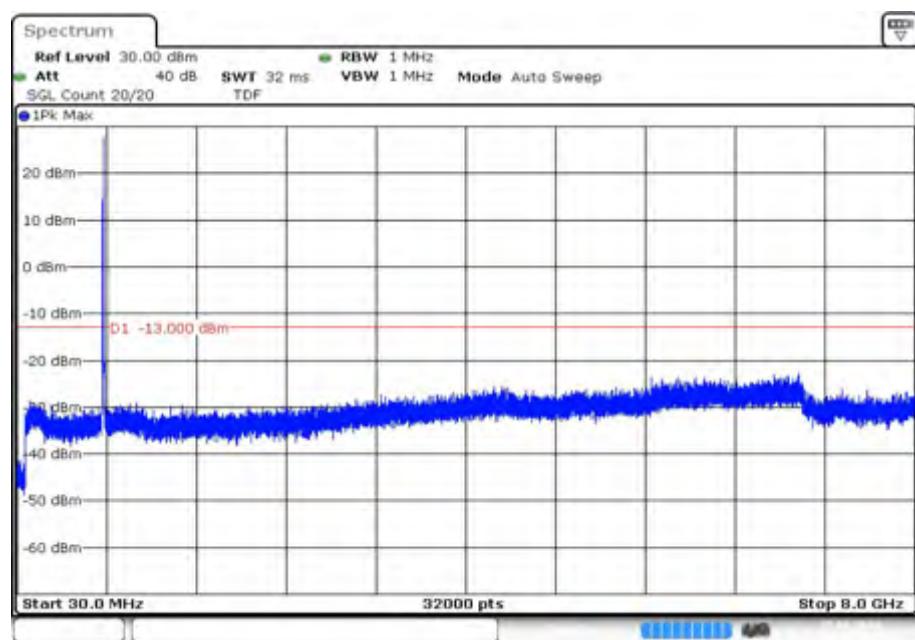


Fig.1



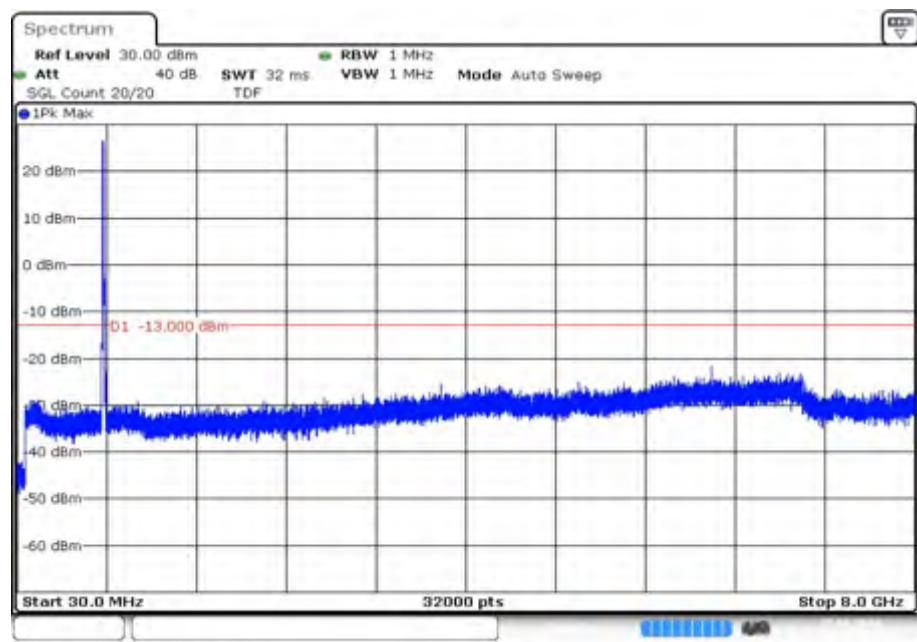
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Fig.2



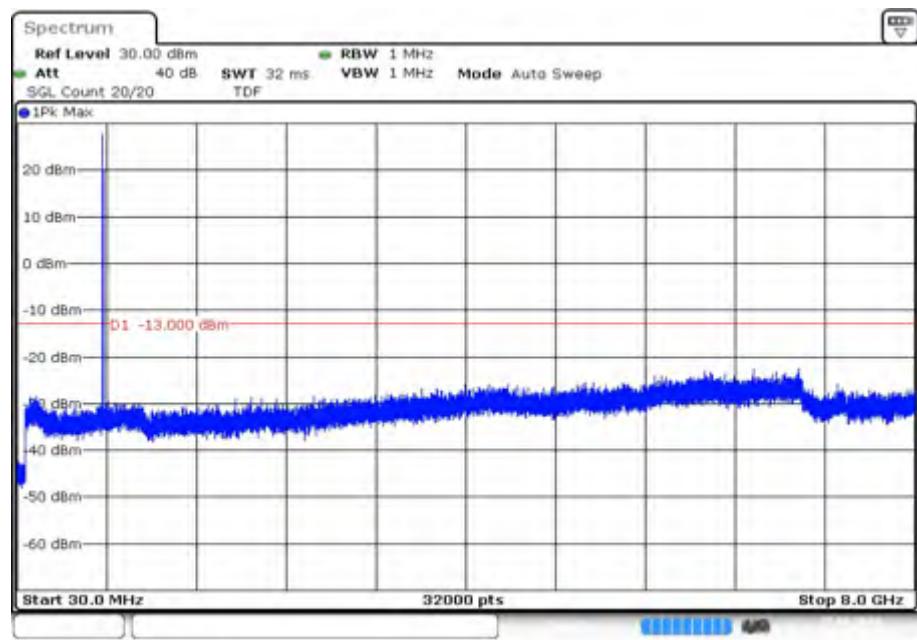
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Fig.3



Date: 15.MAR.2018 02:17:45

Fig.4



Date: 15.MAR.2018 02:17:54

Fig.5

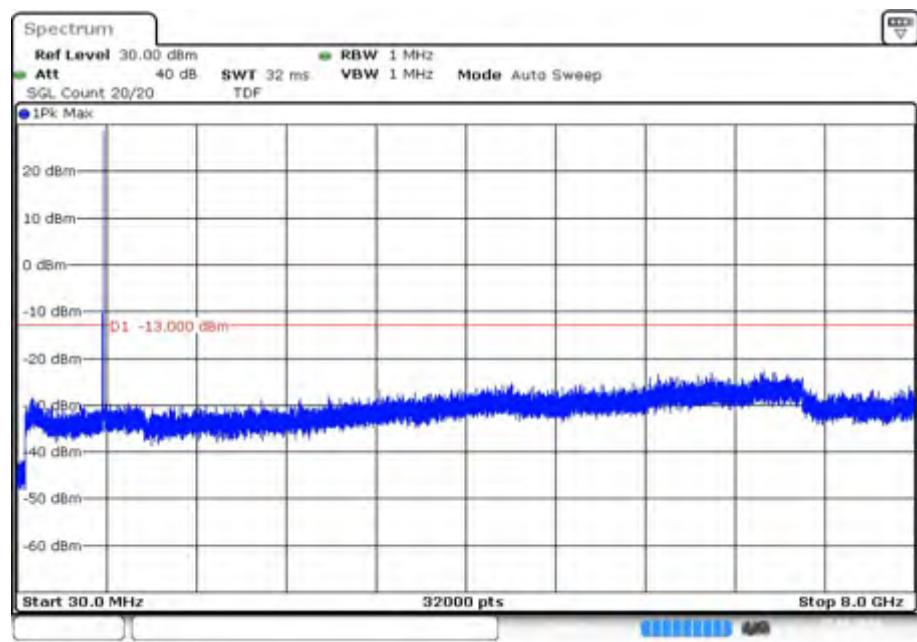


Fig.6

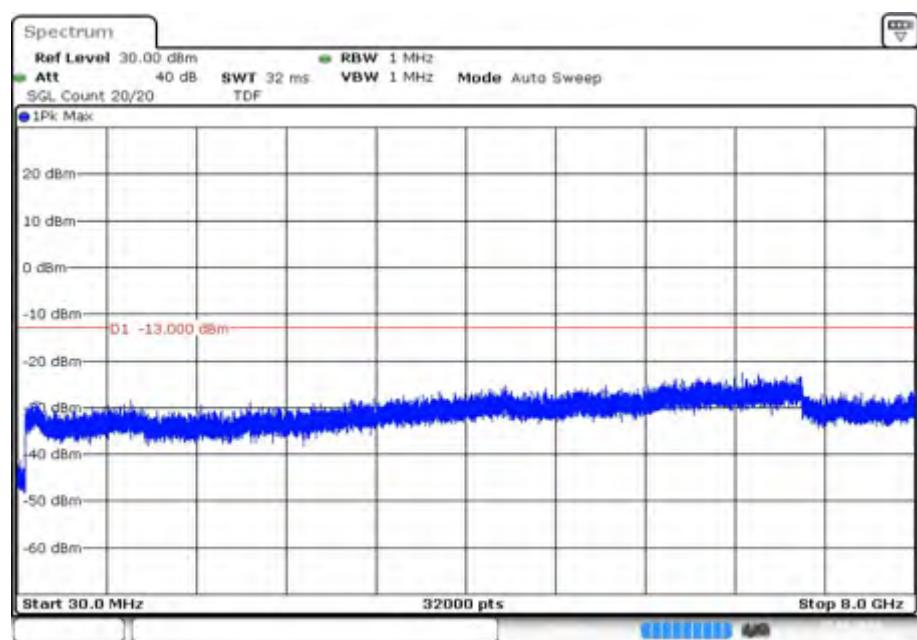
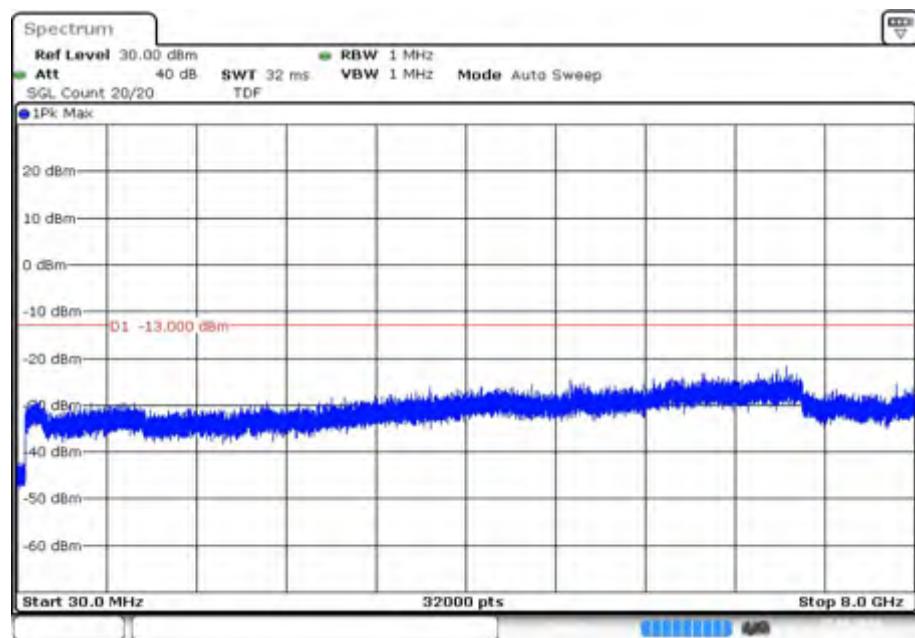


Fig.7



Date: 15 MAR 2018 02:18:44

Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
14	793	23330	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

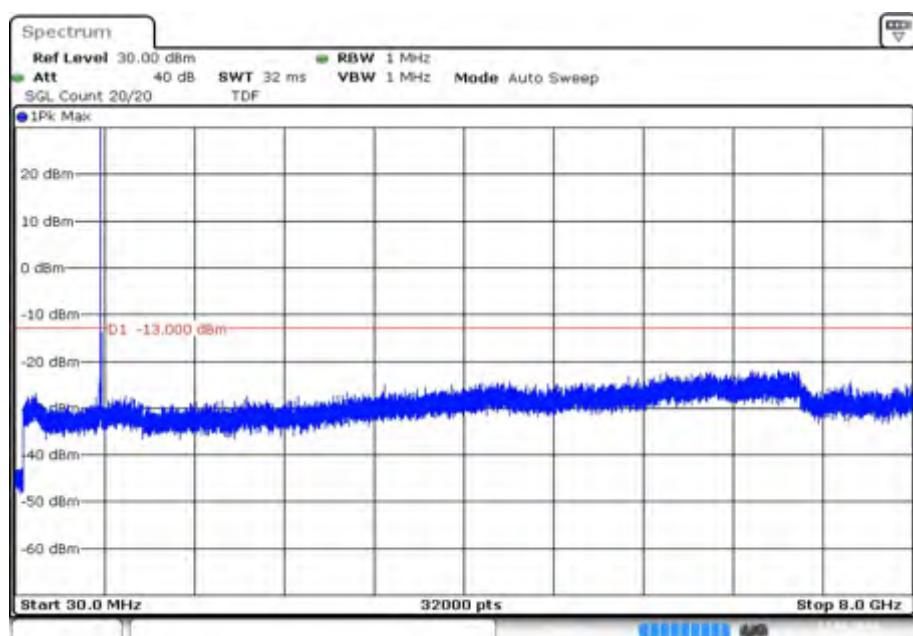
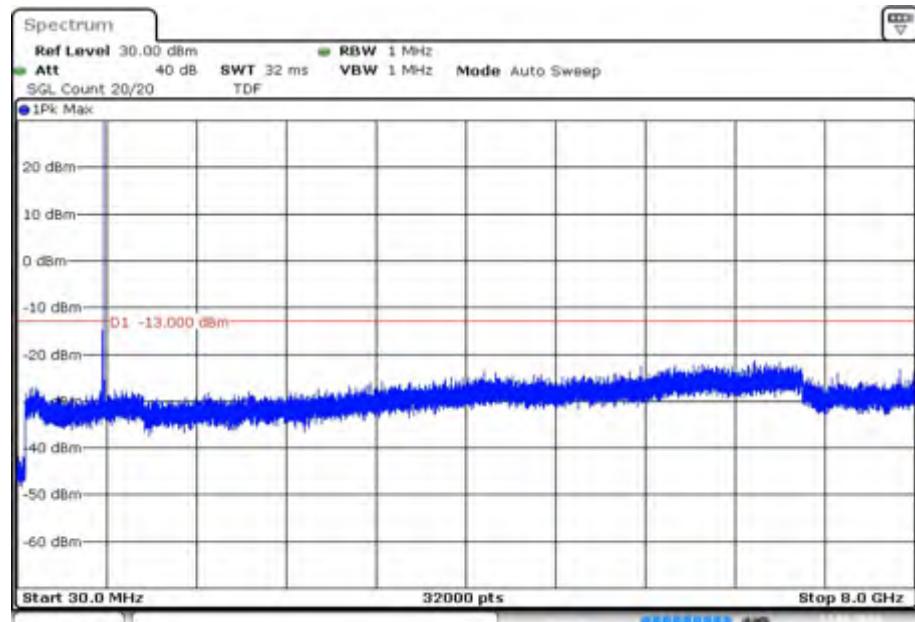
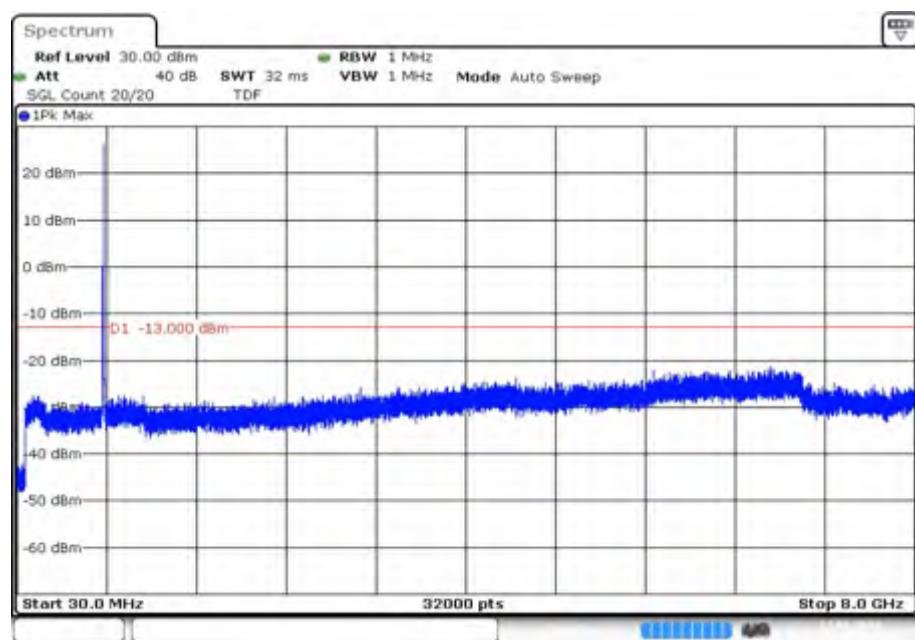


Fig.1



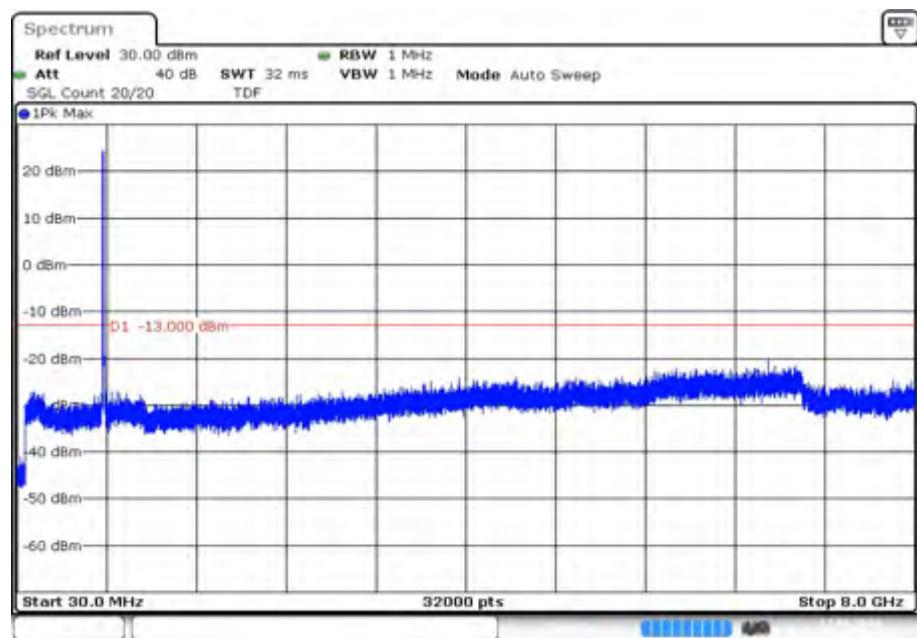
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Fig.2



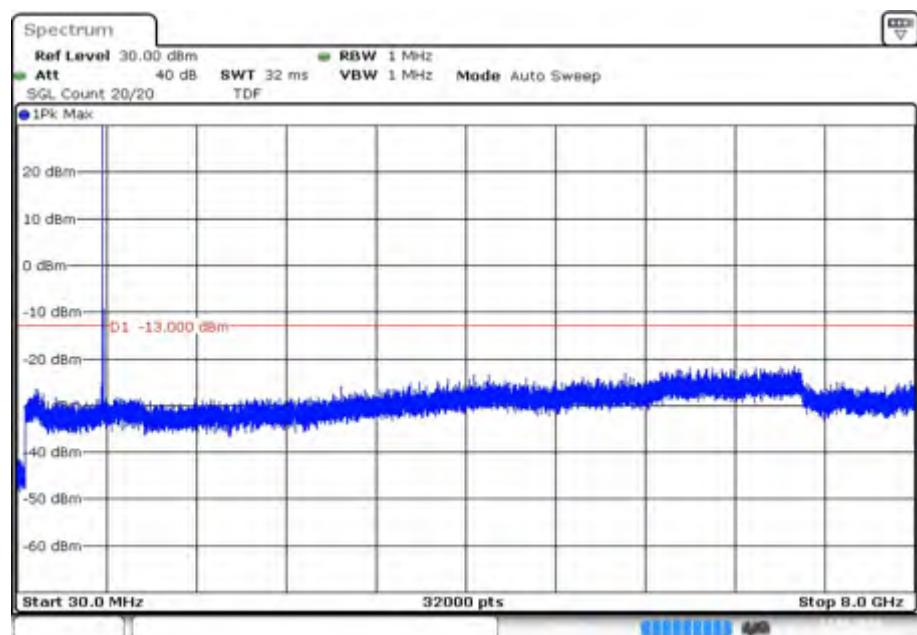
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Fig.3



Date: 13.MAR.2018 13:58:44

Fig.4



Date: 13.MAR.2018 13:58:52

Fig.5

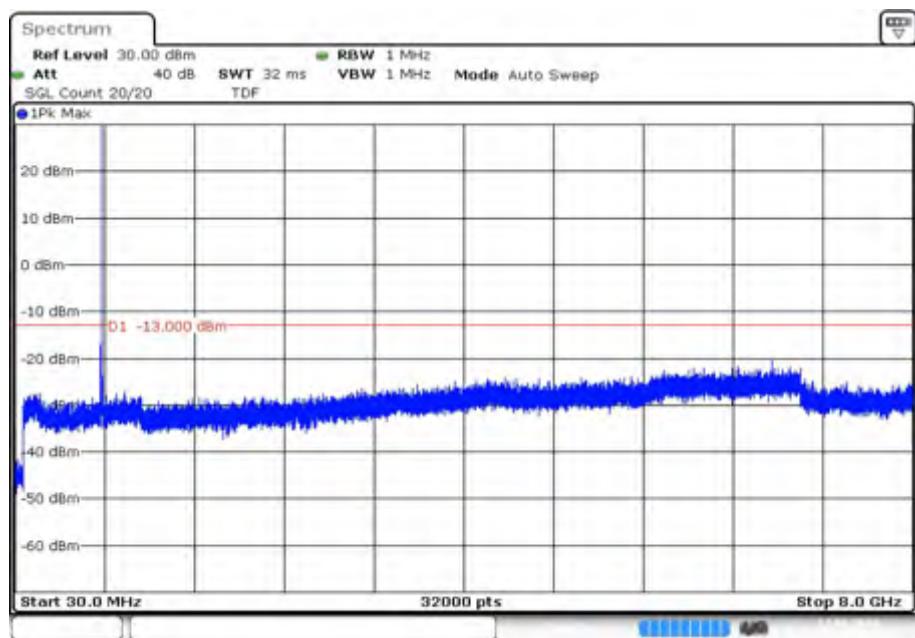


Fig.6

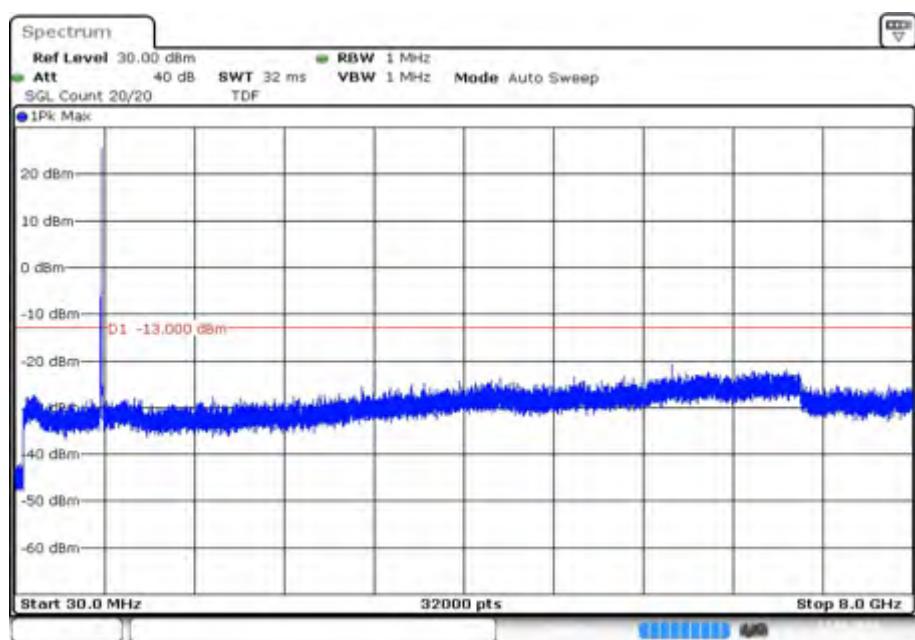
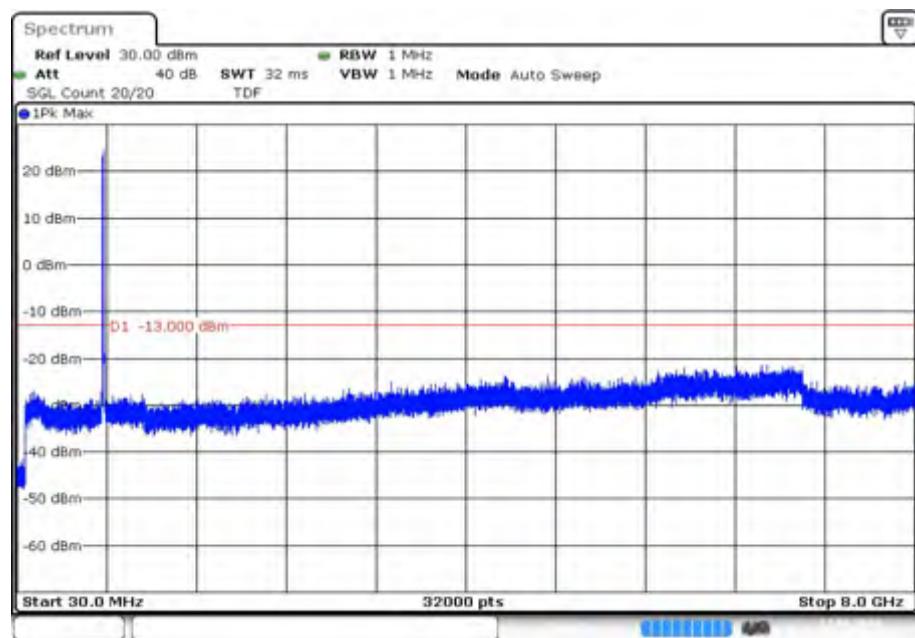


Fig.7



Date: 13.MAR.2018 13:59:18

Fig.8

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
14	793	23330	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

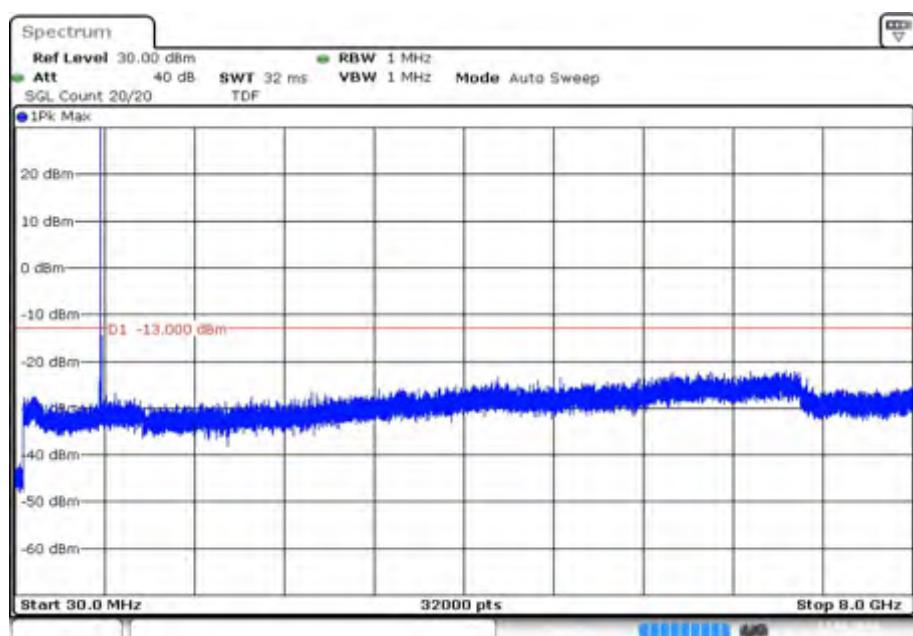
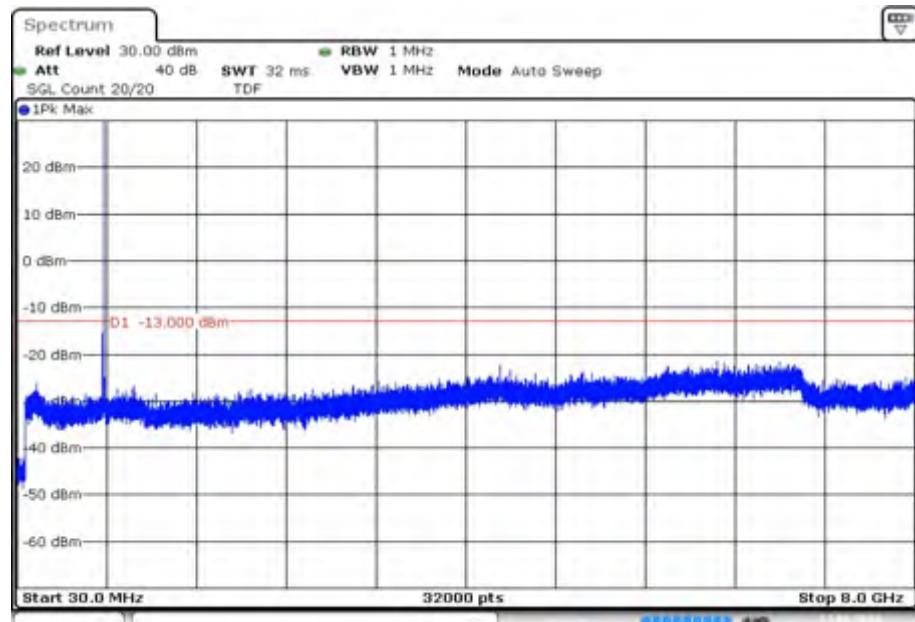
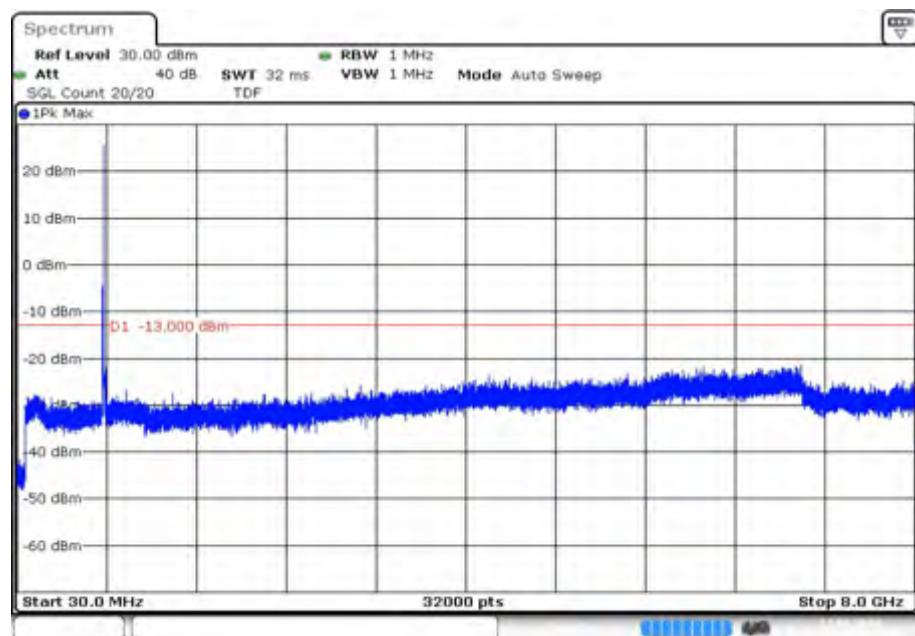


Fig.1



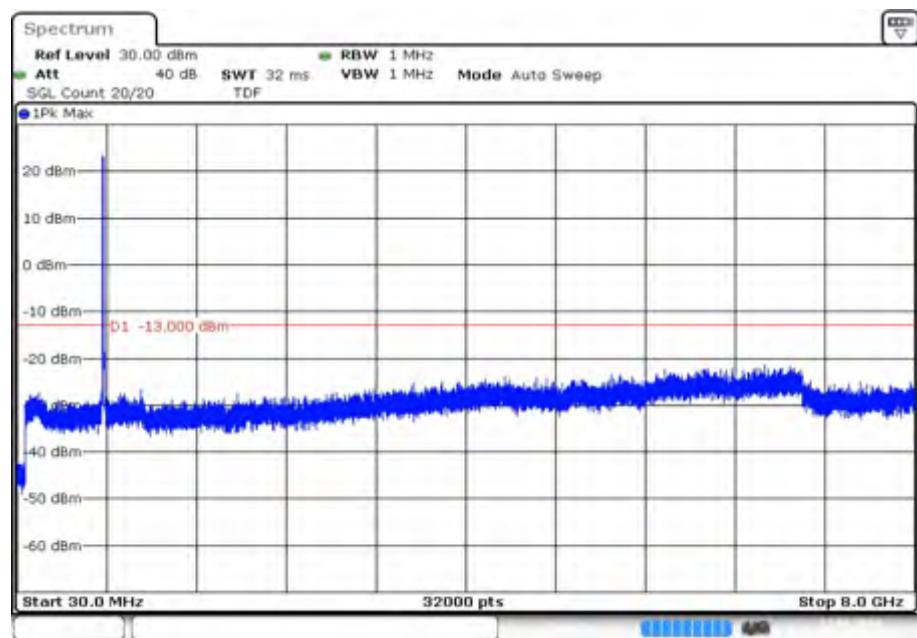
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Fig.2



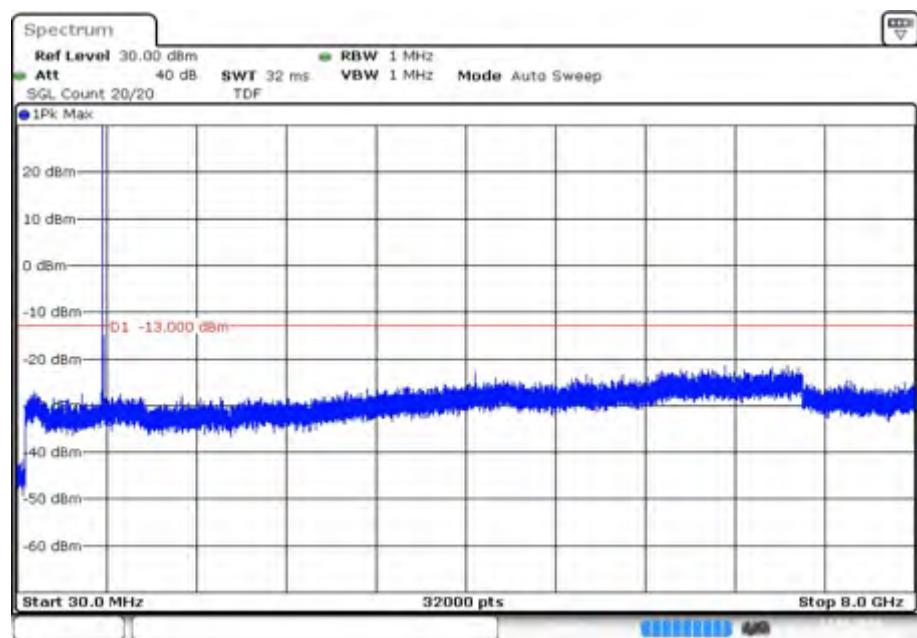
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Fig.3



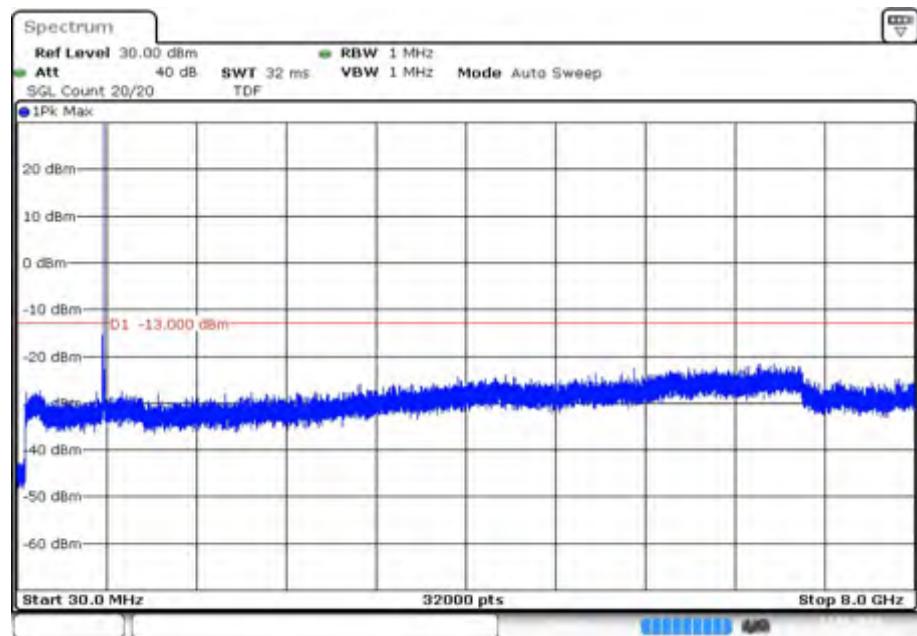
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Fig.4



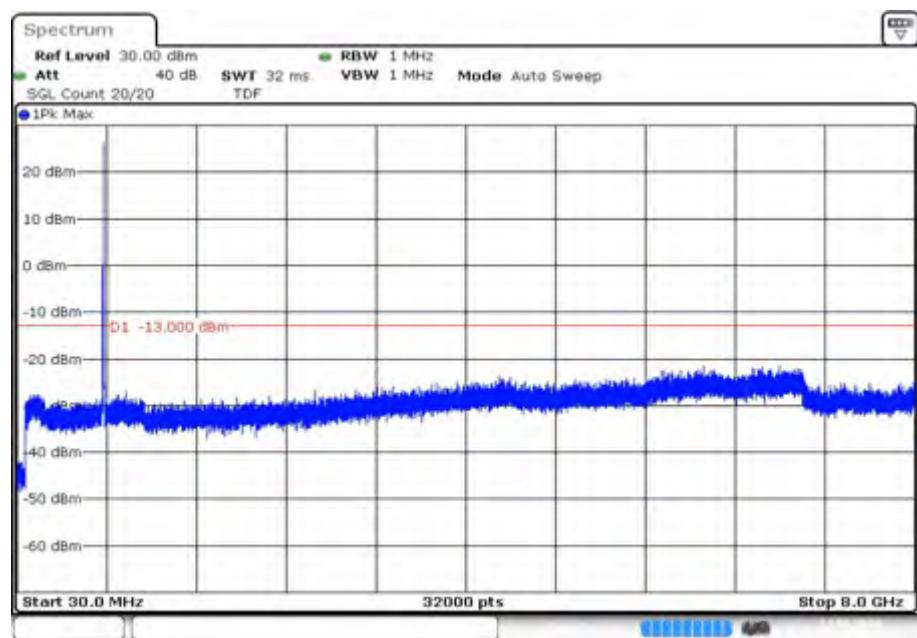
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Fig.5



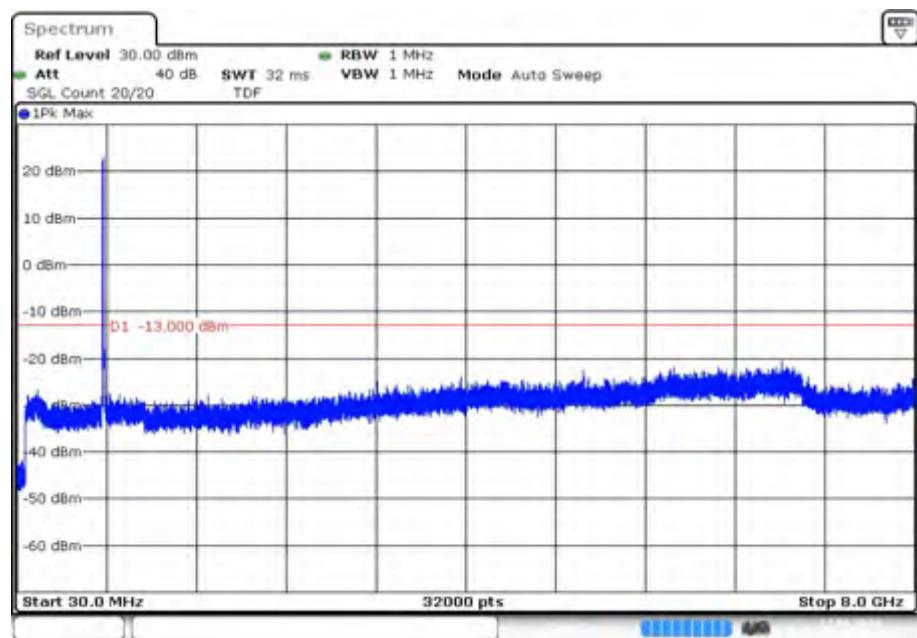
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Fig.6



Date: 13.MAR.2018 14:08:50

Fig.7



Date: 13.MAR.2018 14:08:58

Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
14	793	23330	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

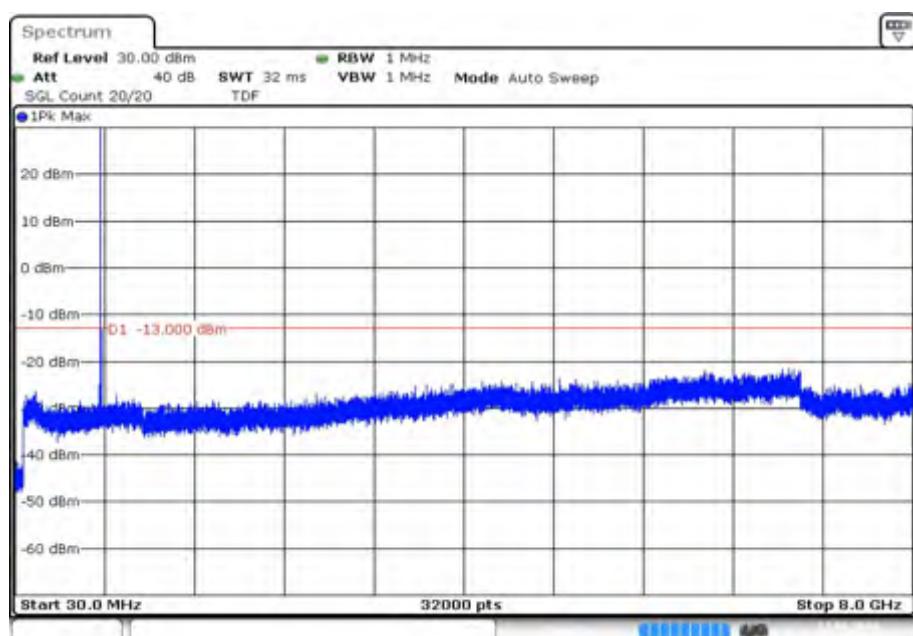
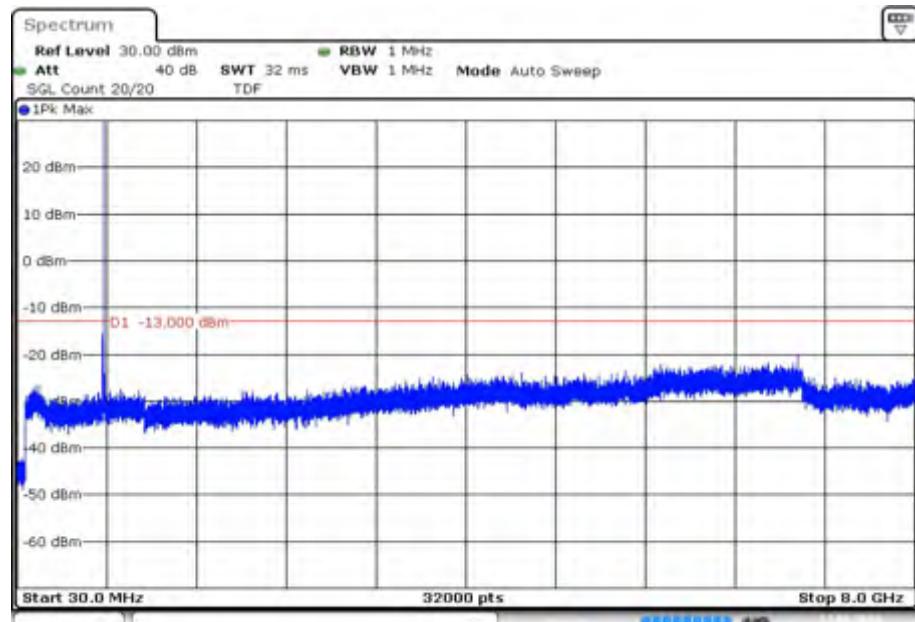
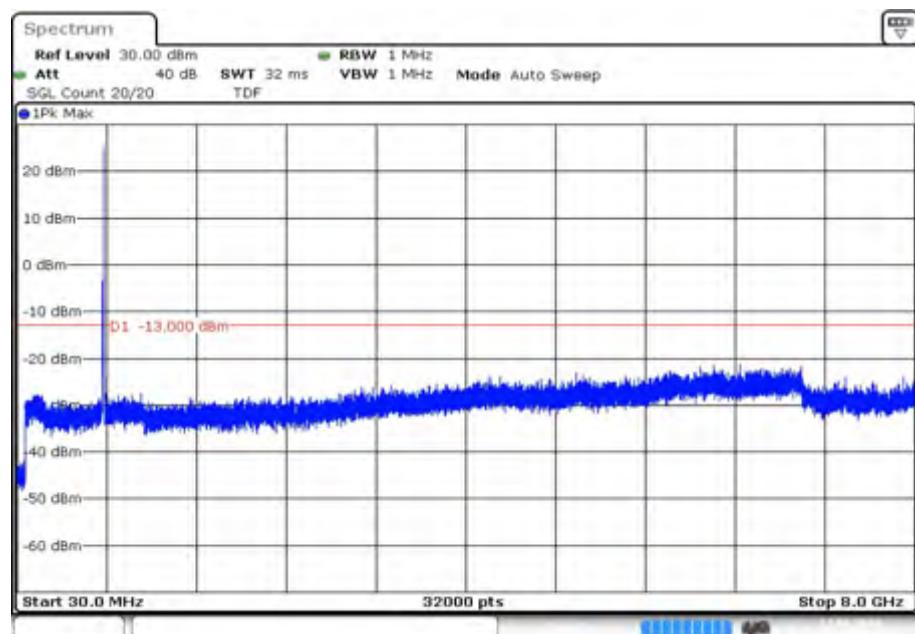


Fig.1



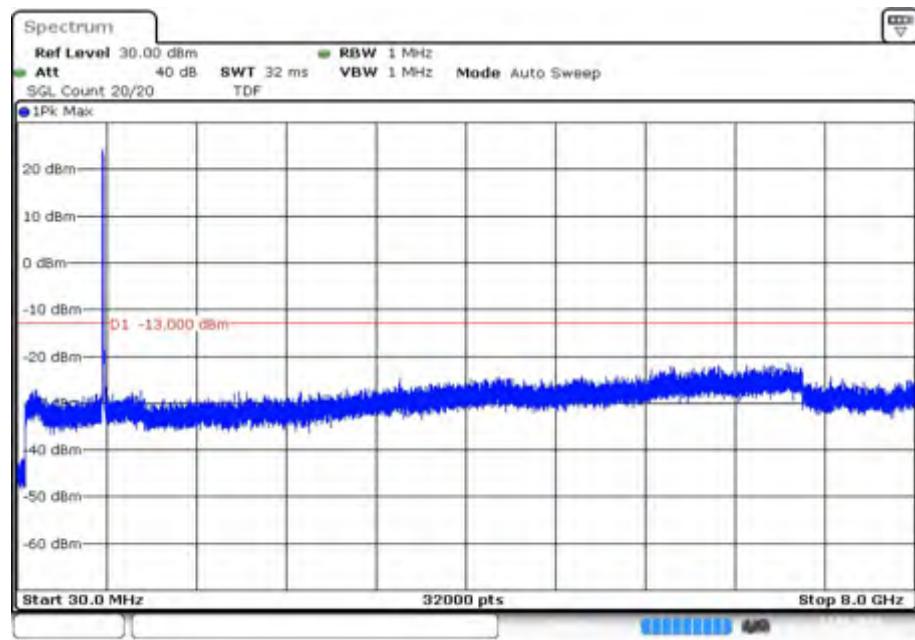
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Fig.2



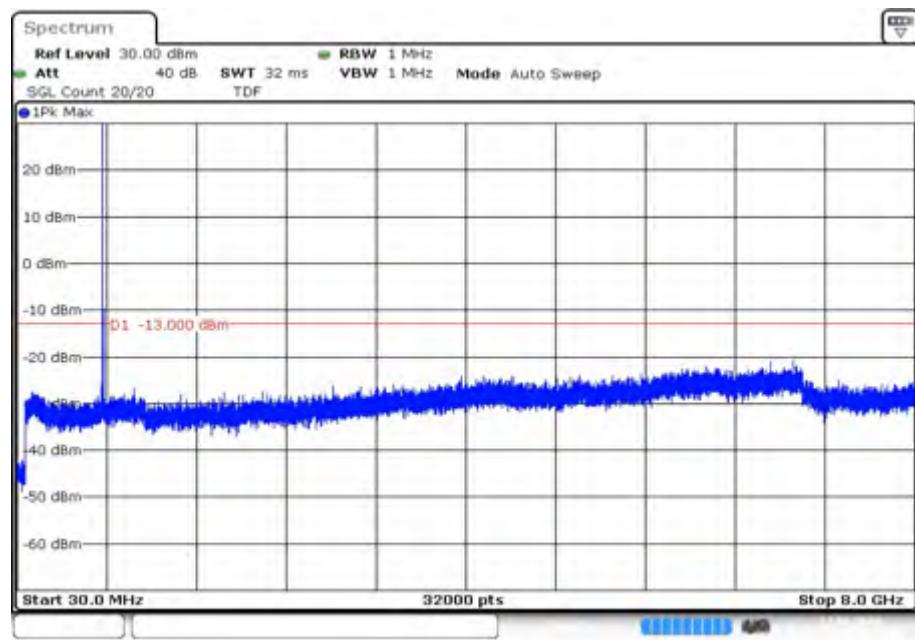
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Fig.3



Date: 13.MAR.2018 14:16:13

Fig.4



Date: 13.MAR.2018 14:16:22

Fig.5

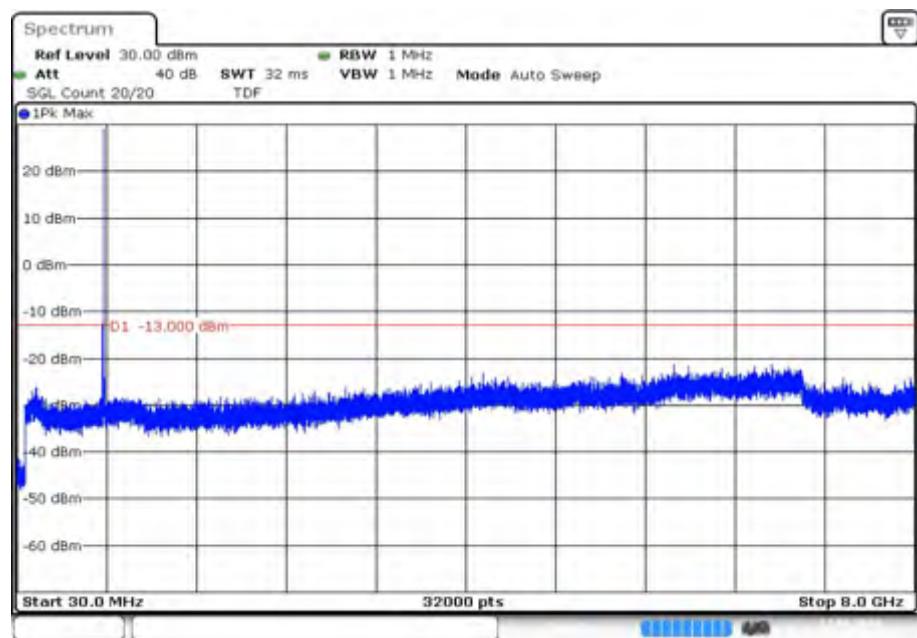


Fig.6

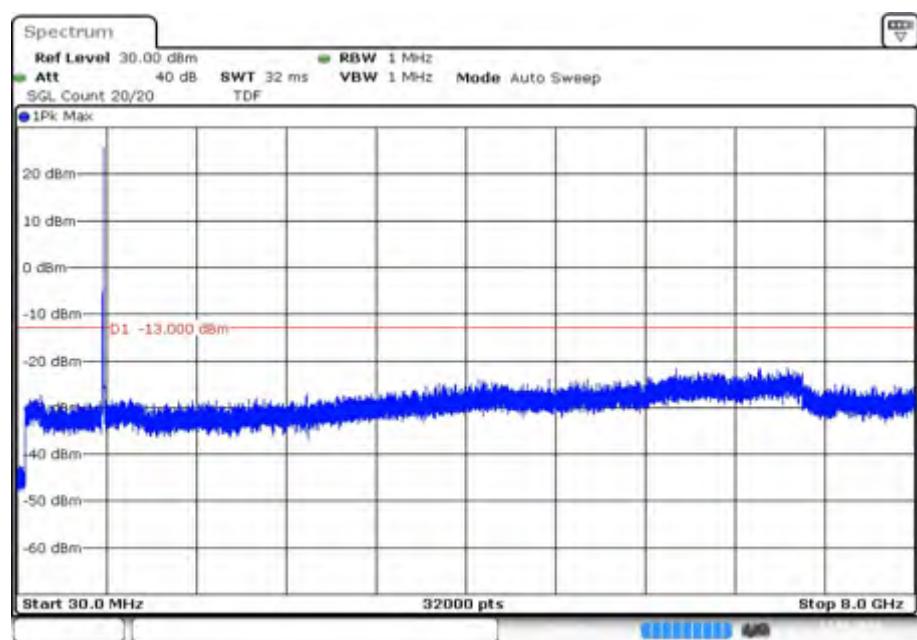
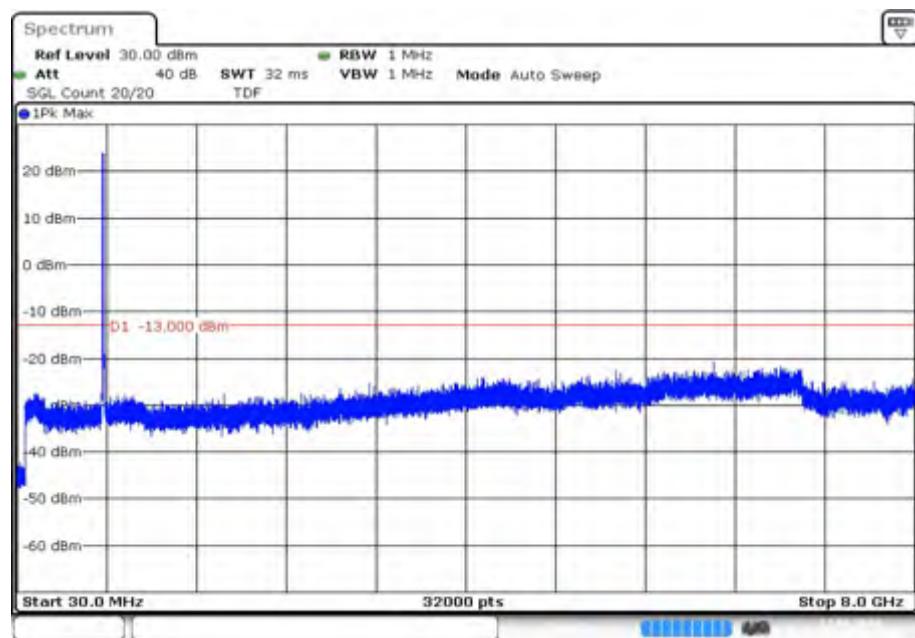


Fig.7



Date: 13.MAR.2018 14:16:47

Fig.8

## LTE Band 26

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
26	814.7	26697	1.4	1	0	Fig.1	Fig.5
				1	5	Fig.2	Fig.6
				3	2	Fig.3	Fig.7
				6	0	Fig.4	Fig.8

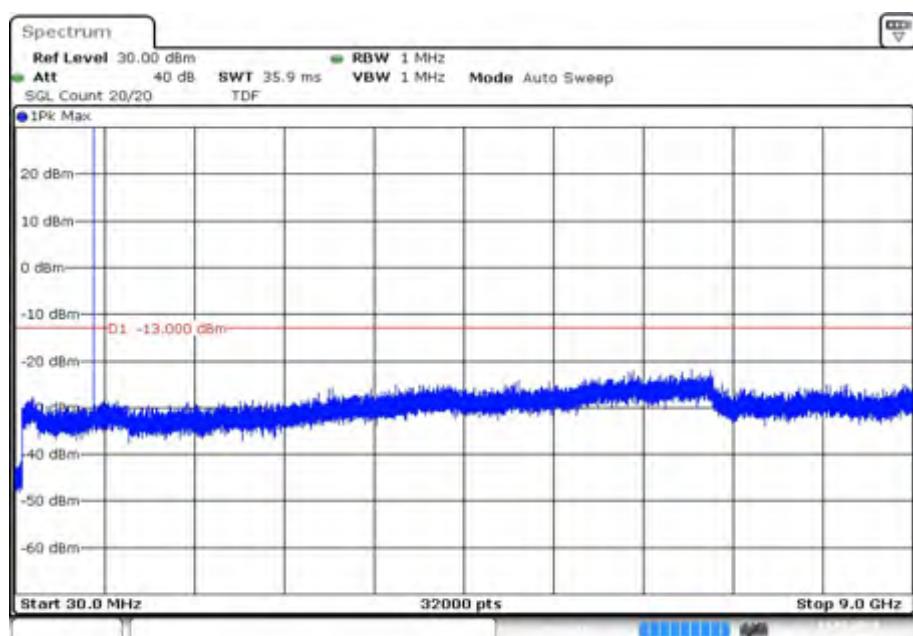


Fig.1

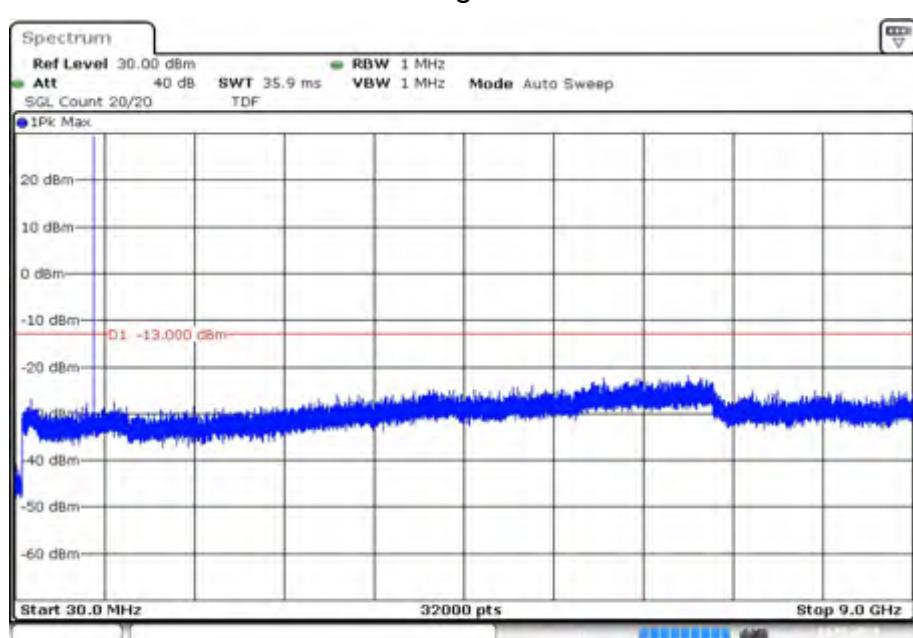
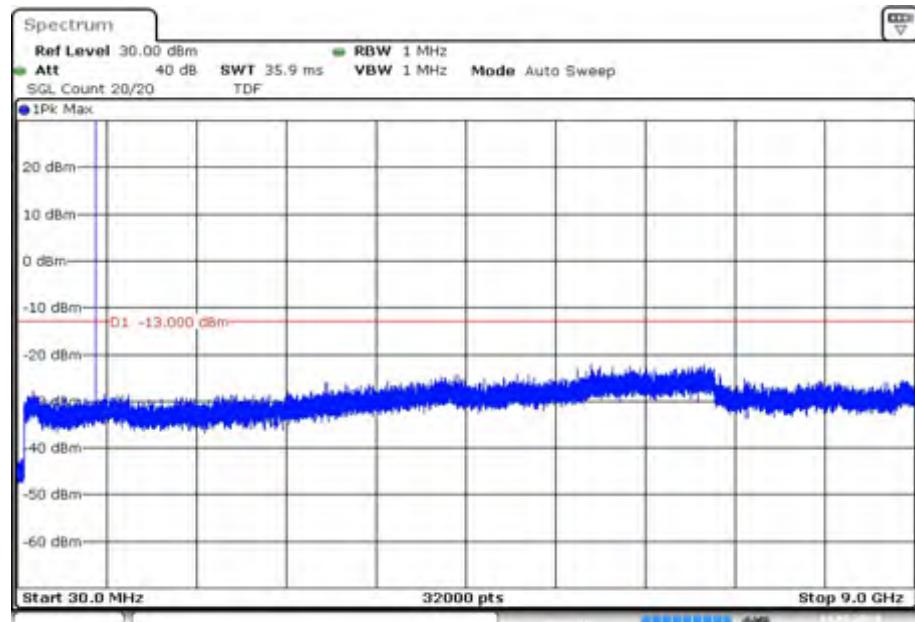
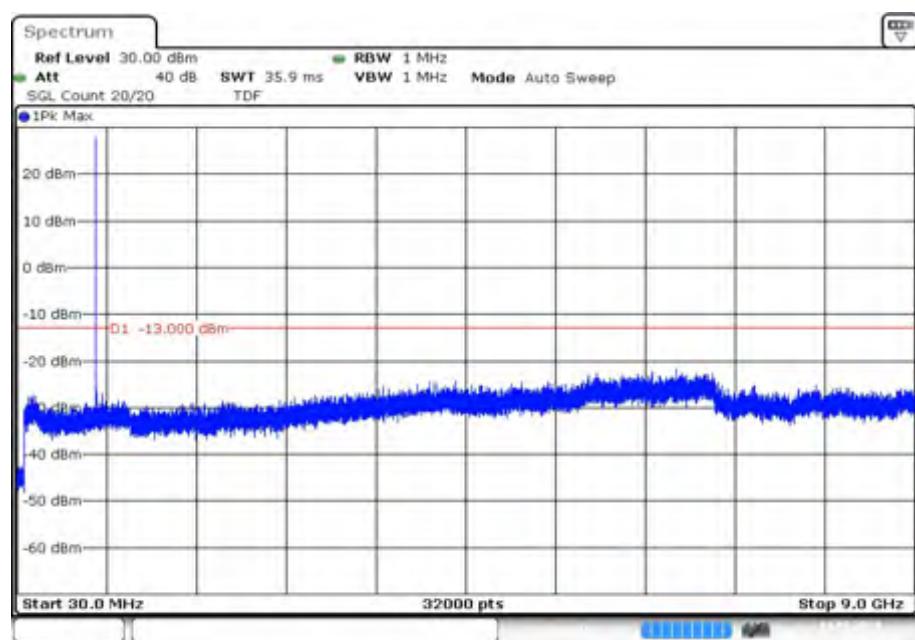


Fig.2



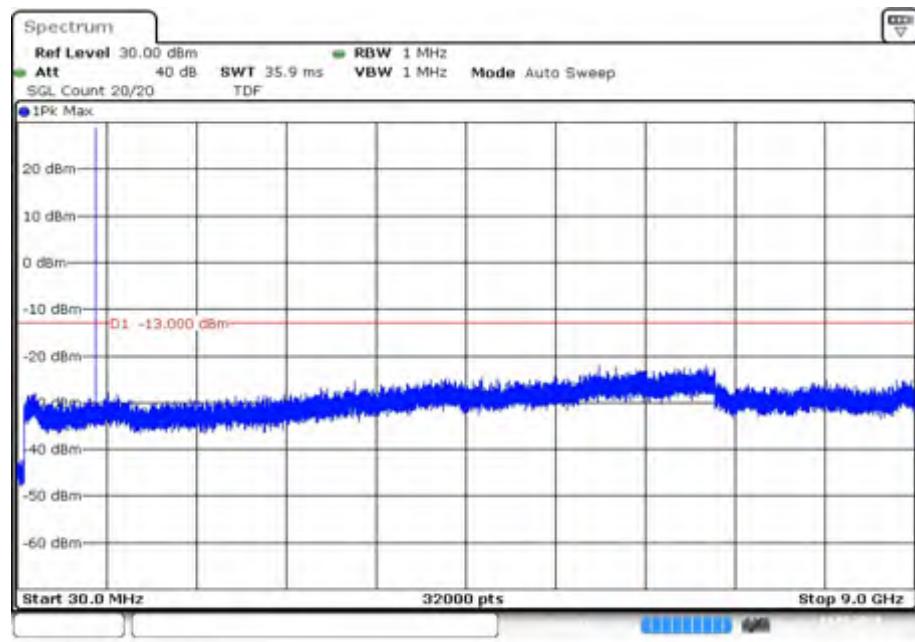
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Fig.3



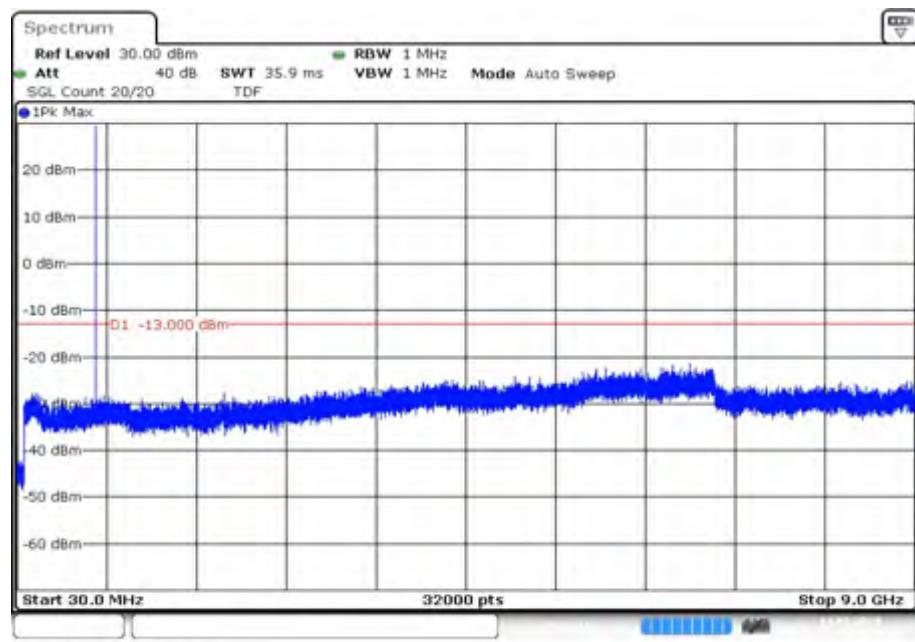
Date: 14 MAR 2018 14:20:12

Fig.4



Date: 14.MAR.2018 14:20:21

Fig.5



Date: 14.MAR.2018 14:20:29

Fig.6

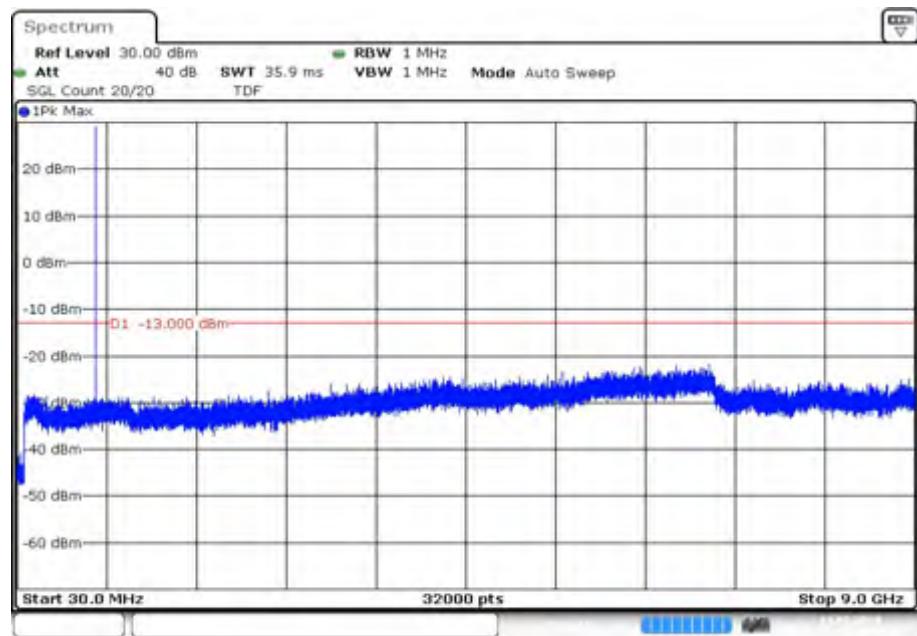


Fig.7

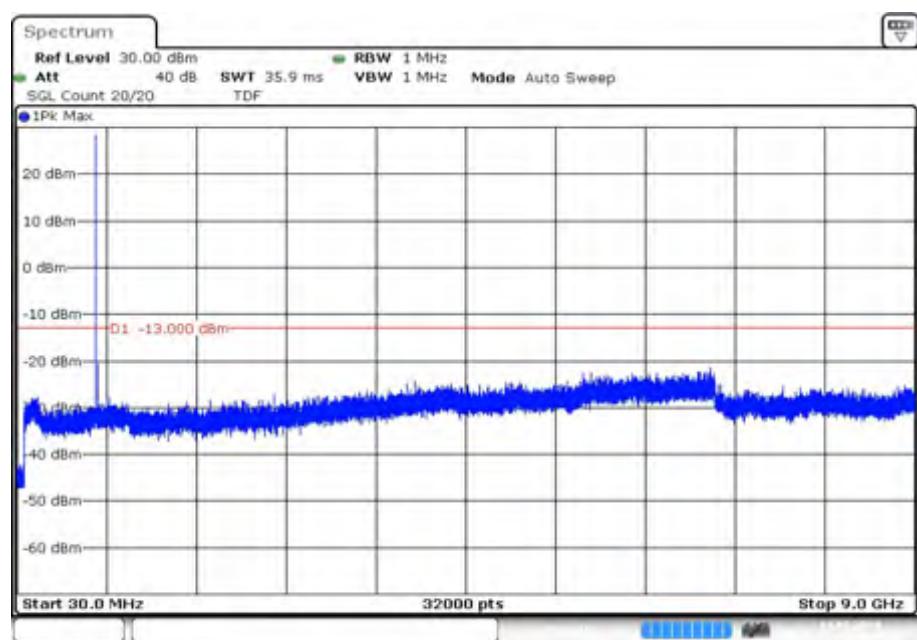


Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
26	848.3	27033	1.4	1	0	Fig.1	Fig.5
				1	5	Fig.2	Fig.6
				3	2	Fig.3	Fig.7
				6	0	Fig.4	Fig.8

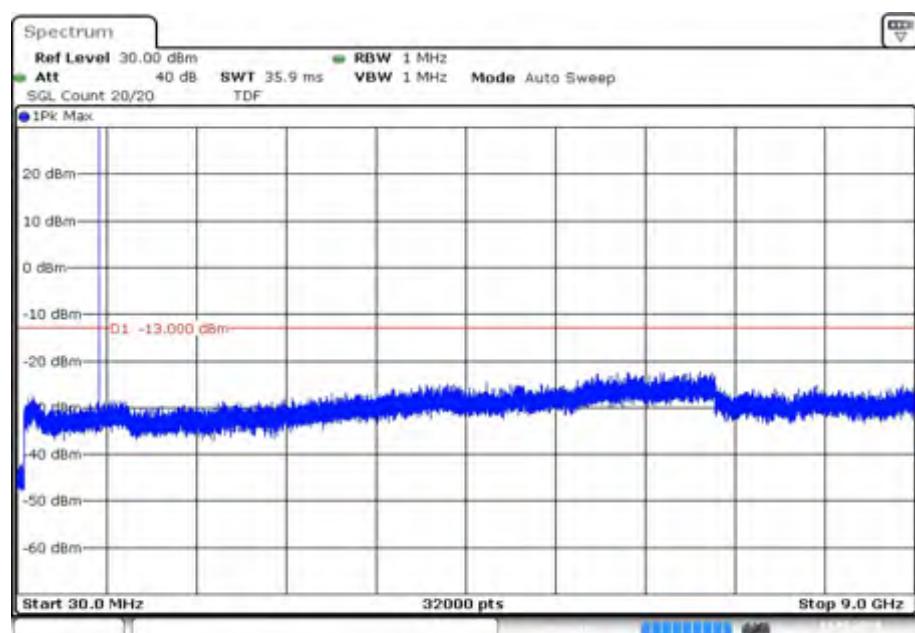
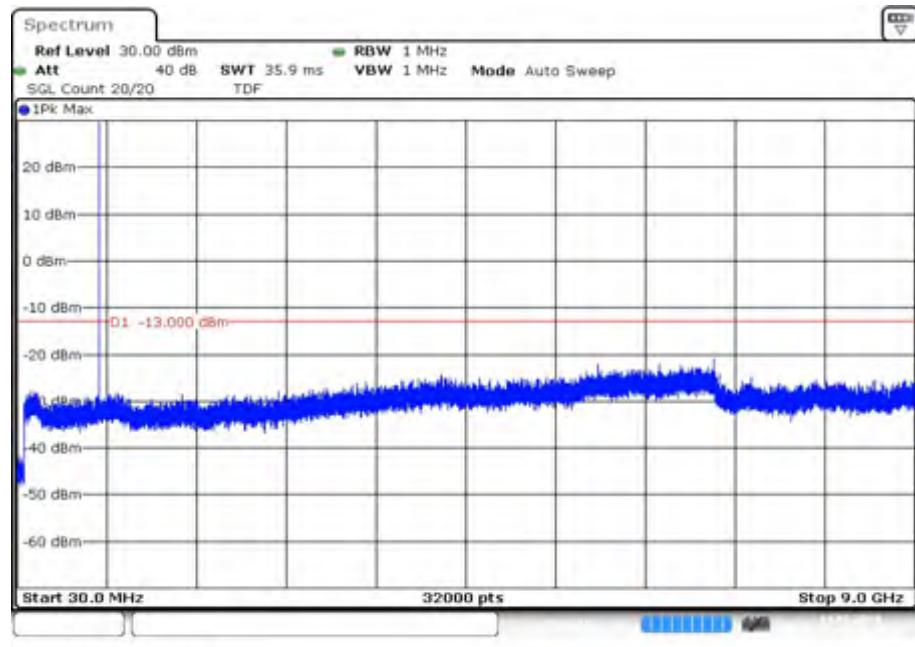
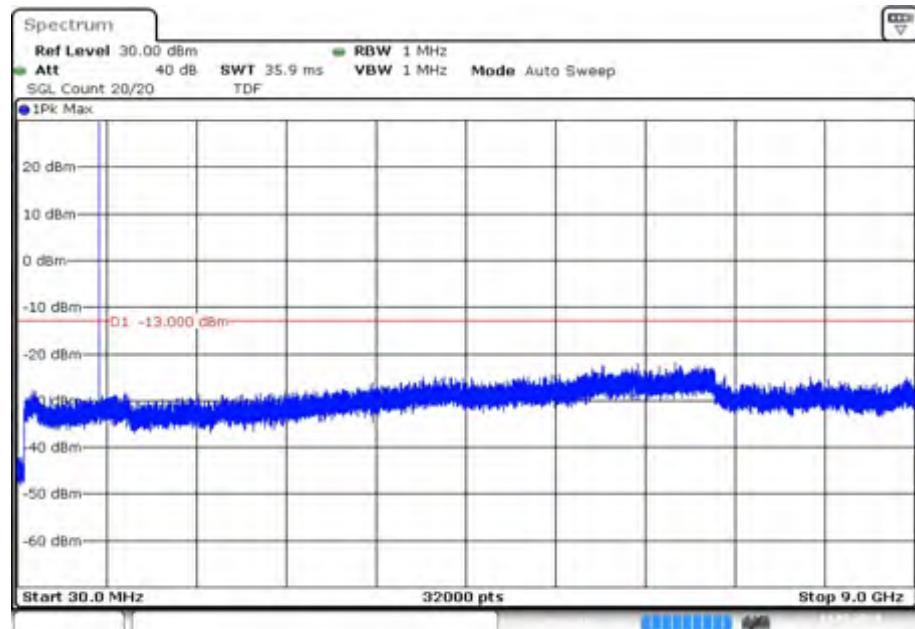


Fig.1



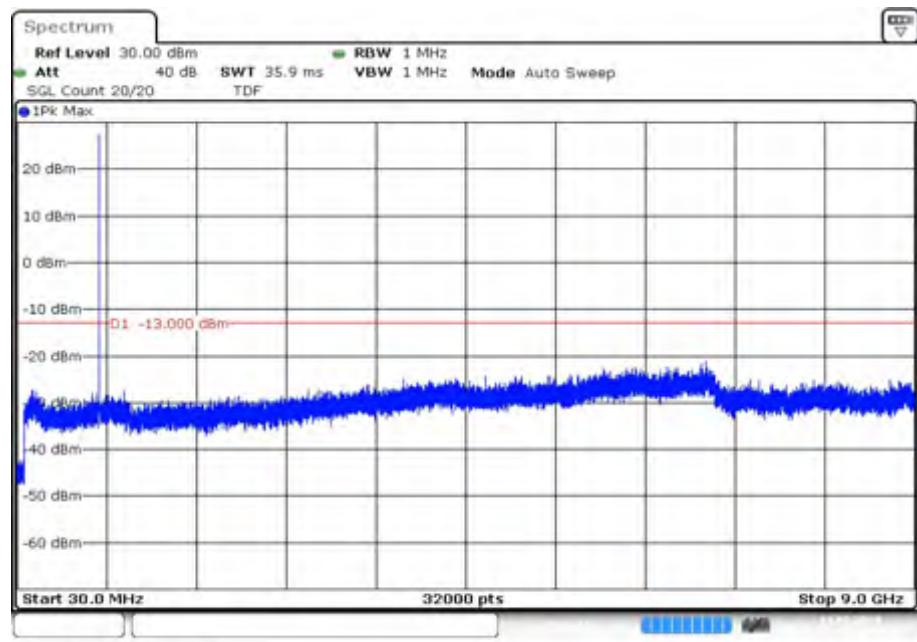
Date: 14 MAR 2018 14:51:30

Fig.2



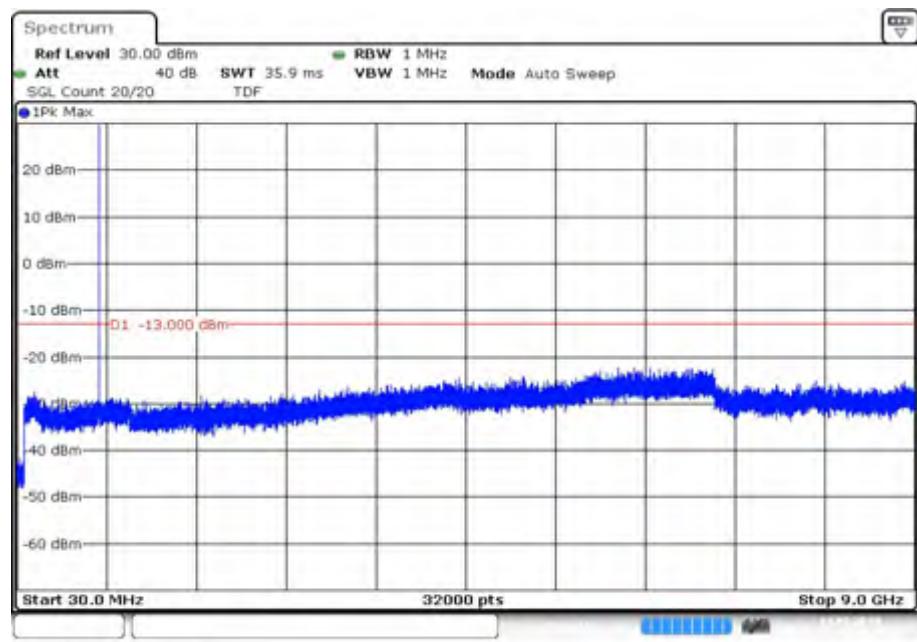
Date: 14 MAR 2018 14:51:39

Fig.3



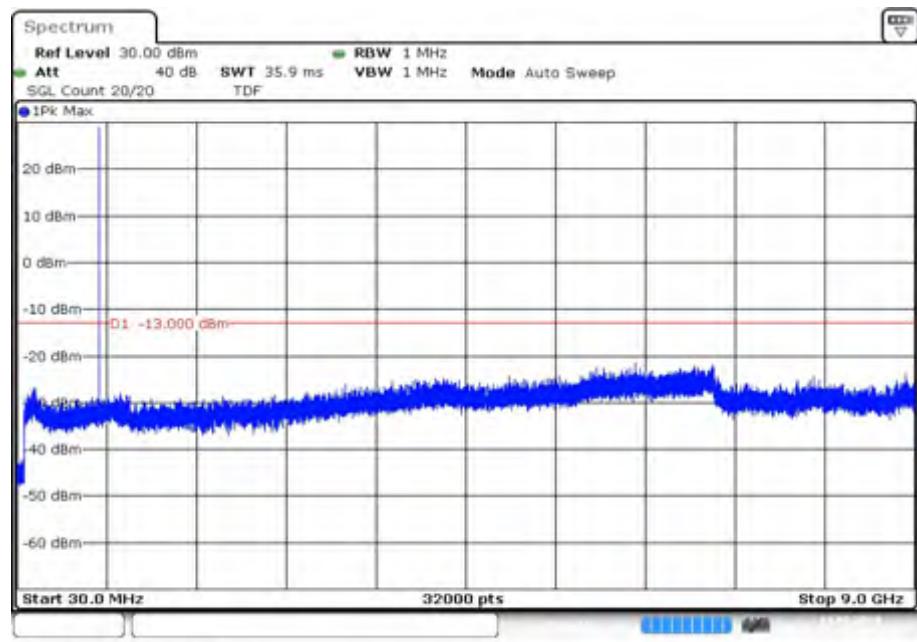
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Fig.4



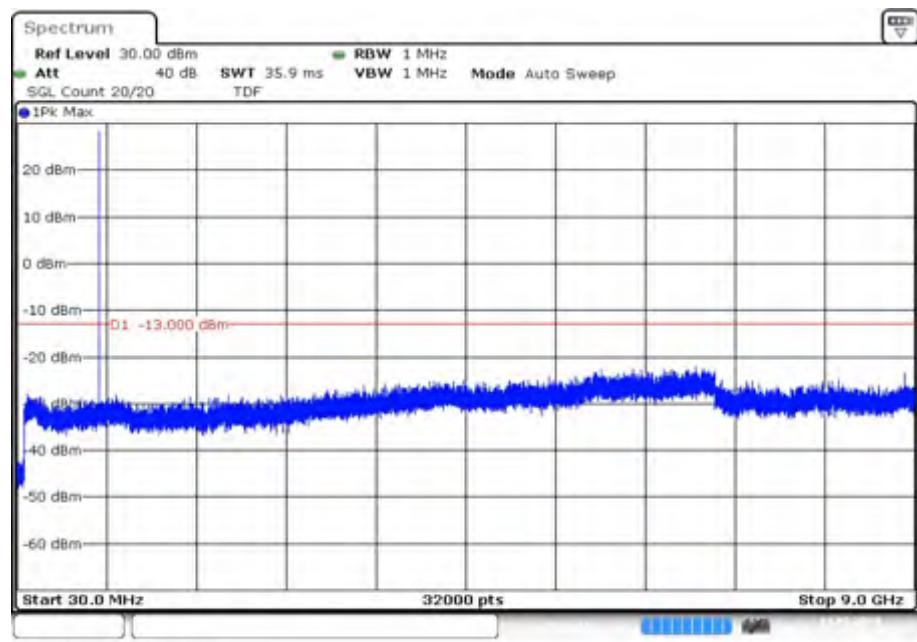
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Fig.5



Date: 14.MAR.2018 14:52:05

Fig.6



Date: 14.MAR.2018 14:52:14

Fig.7

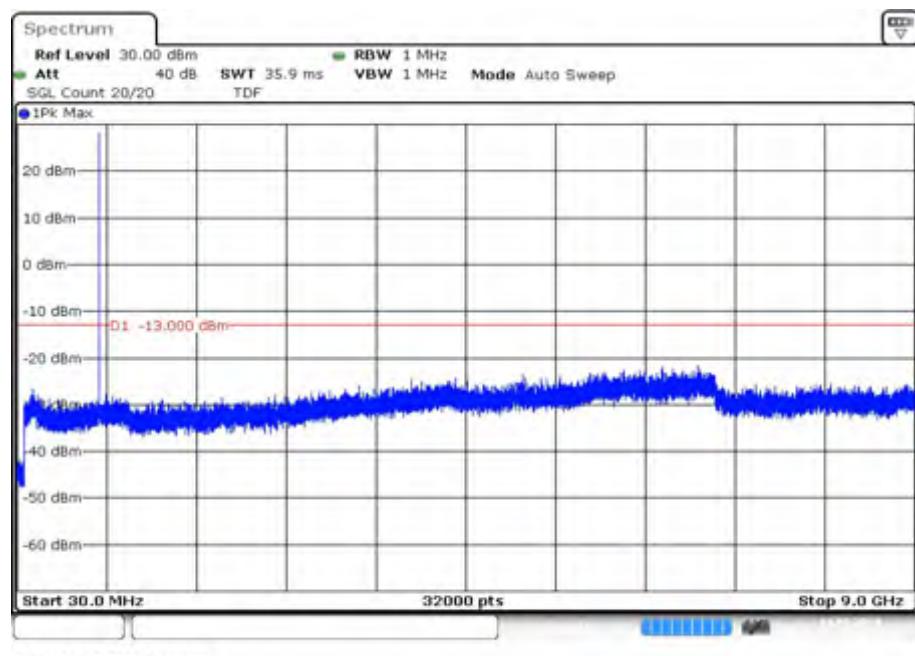


Fig.8

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
26	831.5	26865	1.4	1	0	Fig.1	Fig.5
				1	5	Fig.2	Fig.6
				3	2	Fig.3	Fig.7
				6	0	Fig.4	Fig.8

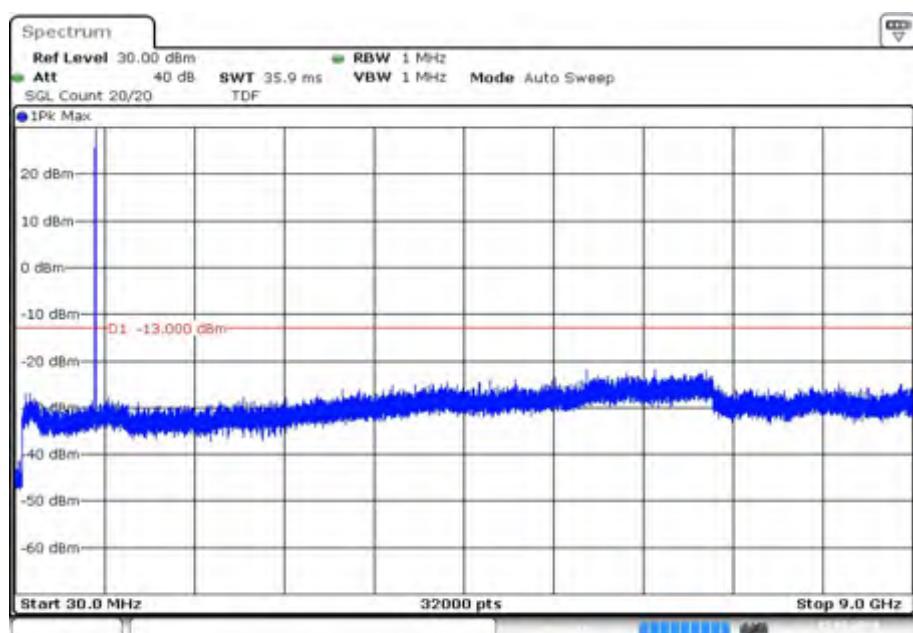
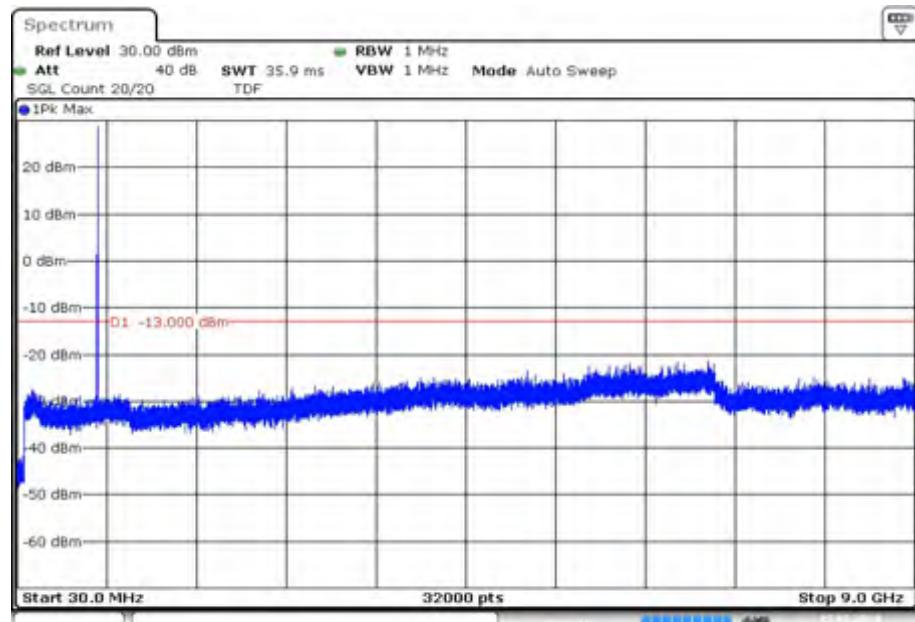
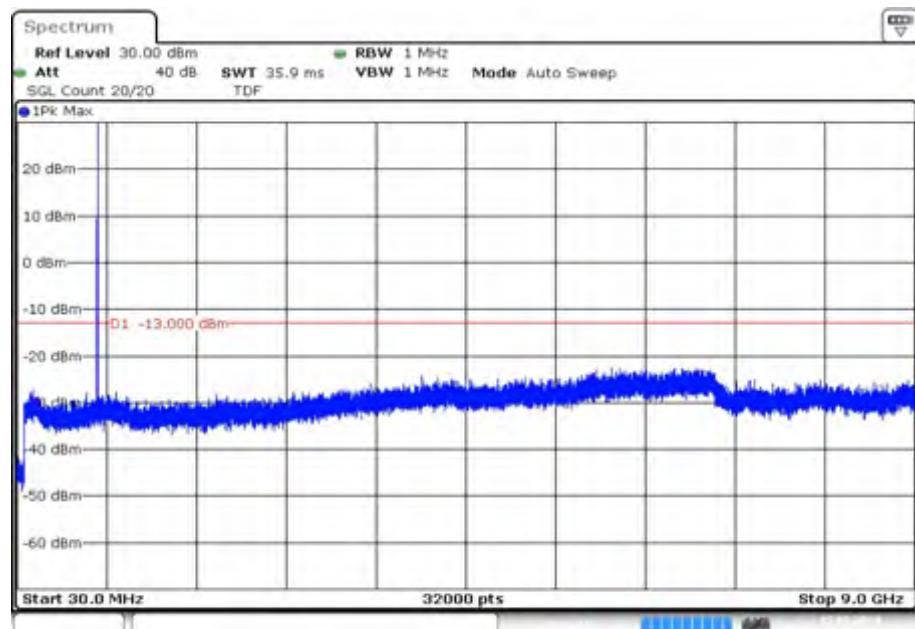


Fig.1



Date: 15.MAR.2018 02:55:53

Fig.2



Date: 15.MAR.2018 02:56:01

Fig.3

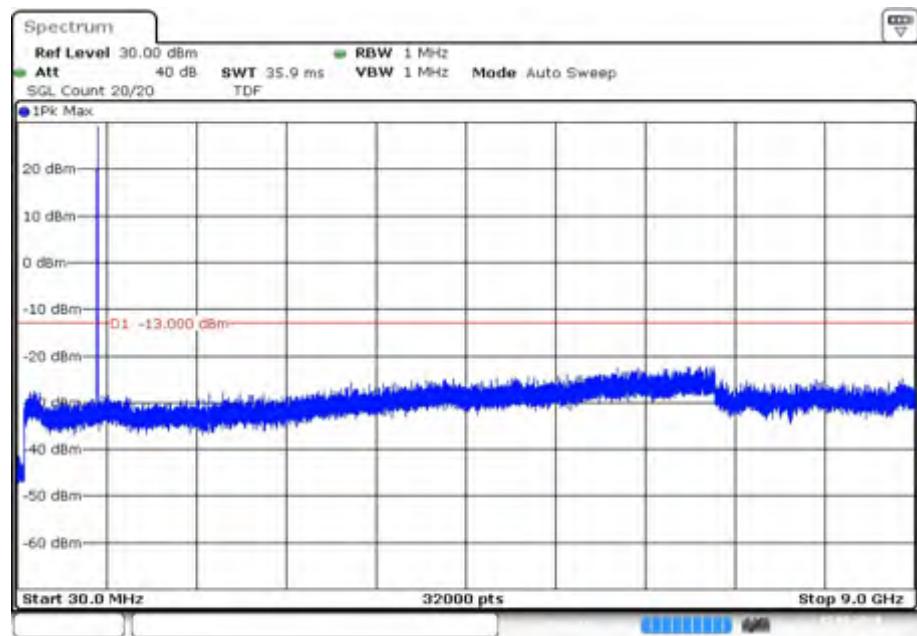


Fig.4

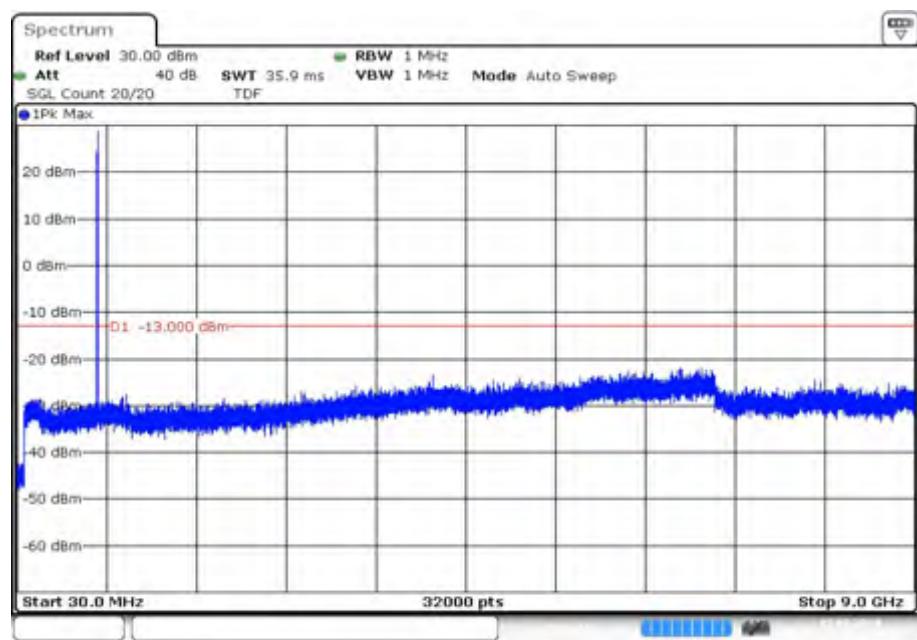
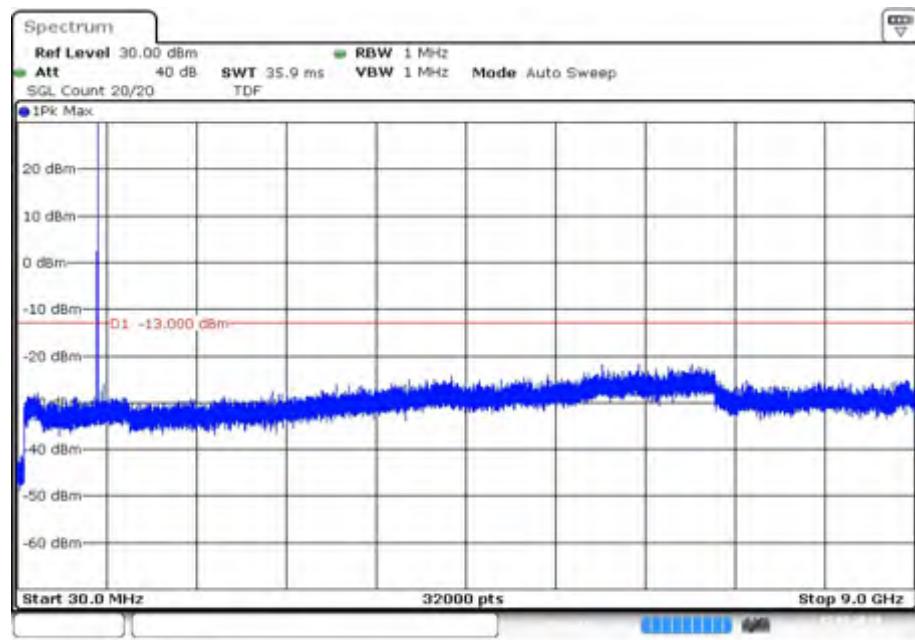
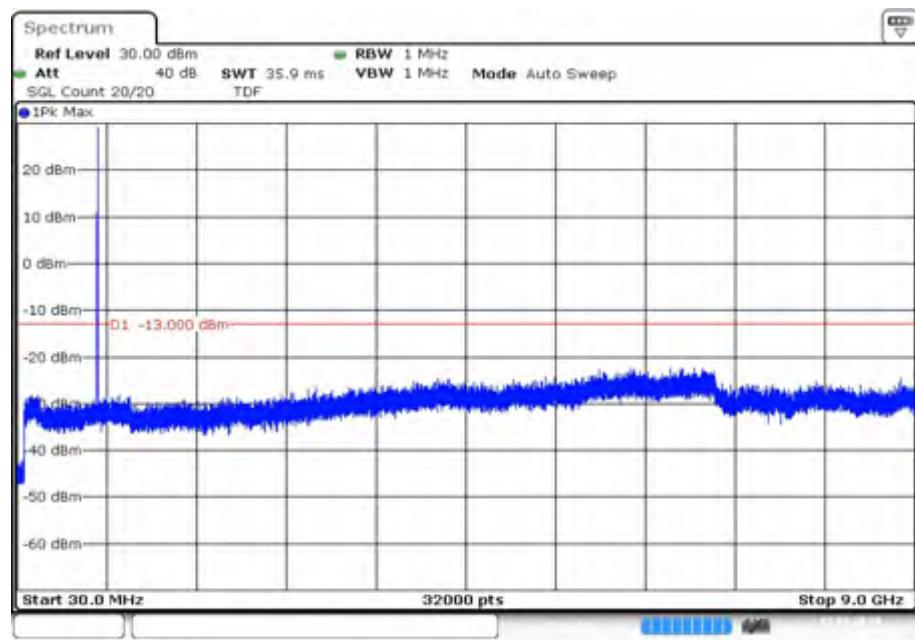


Fig.5



Date: 15.MAR.2018 02:56:28

Fig.6



Date: 15.MAR.2018 02:56:37

Fig.7

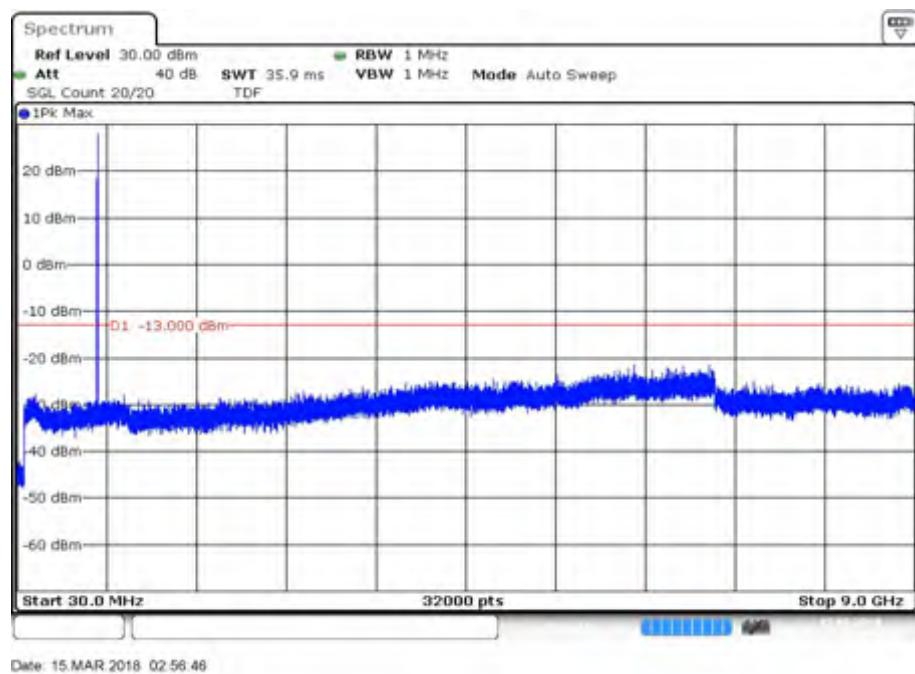


Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
26	815.5	26705	3	1	0	Fig.1	Fig.5
				1	14	Fig.2	Fig.6
				8	4	Fig.3	Fig.7
				15	0	Fig.4	Fig.8

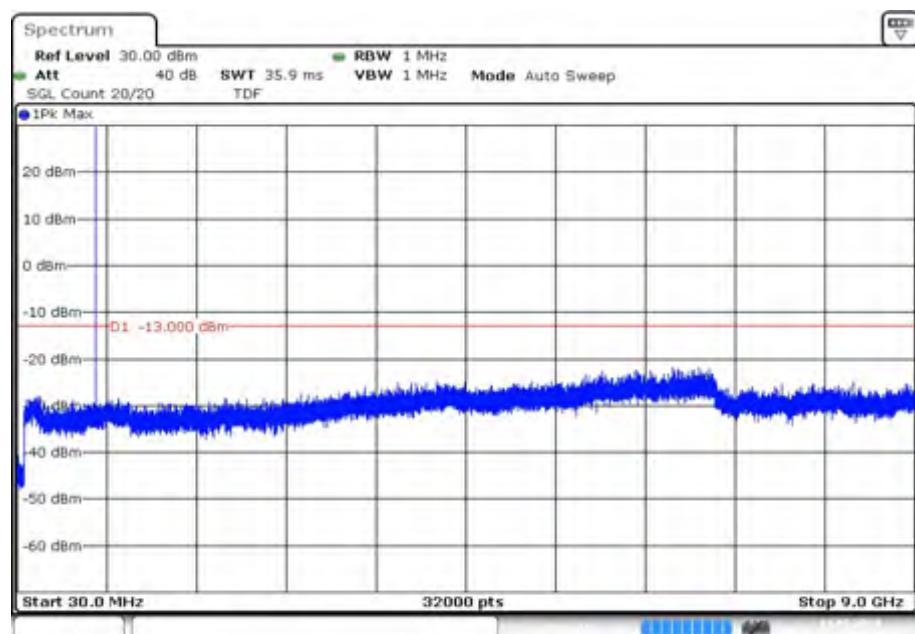
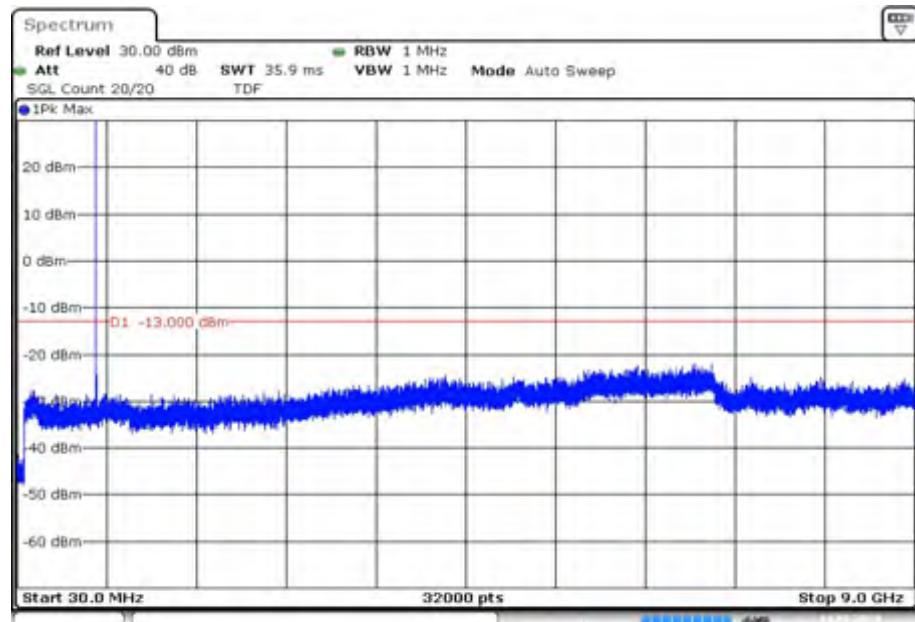
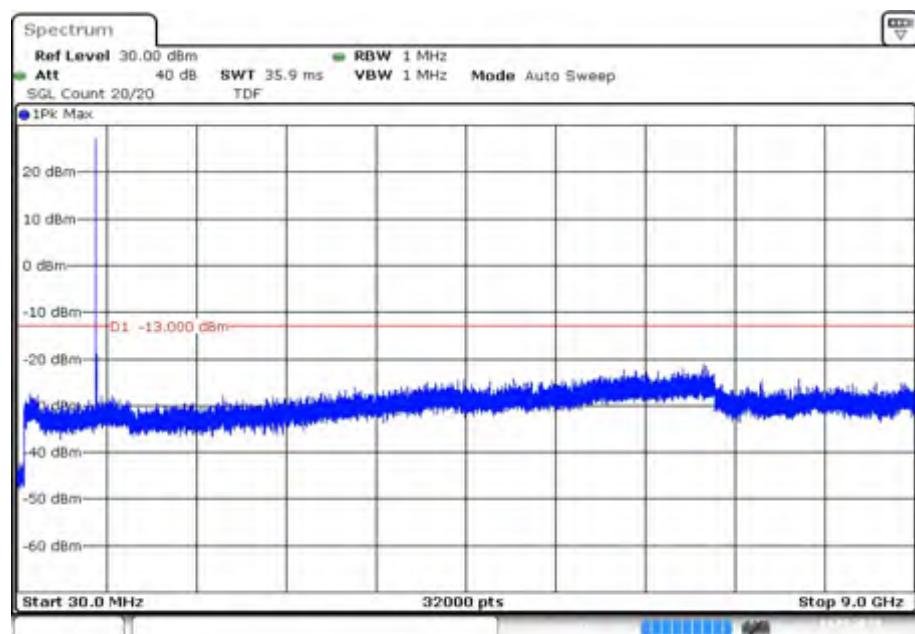


Fig.1



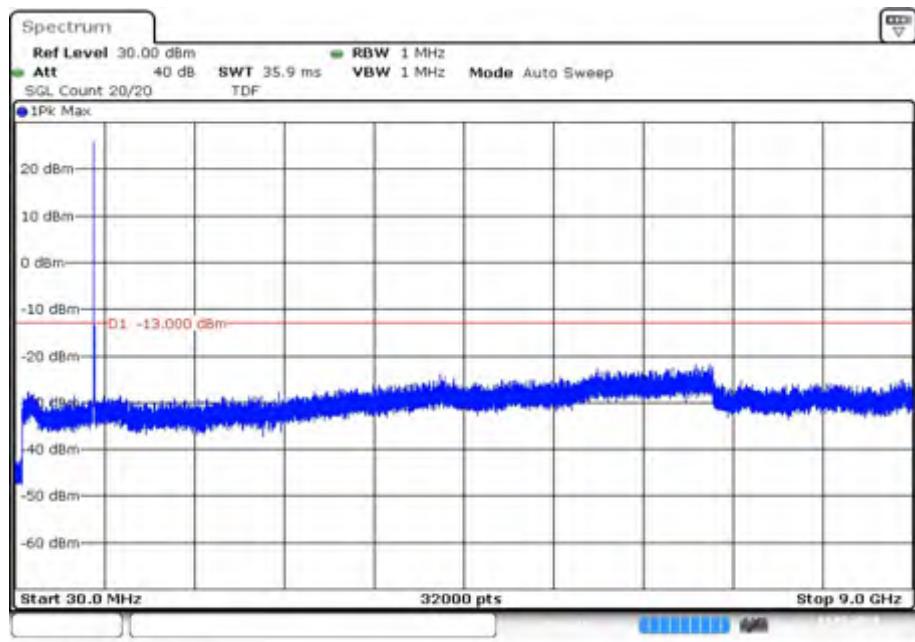
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Fig.2



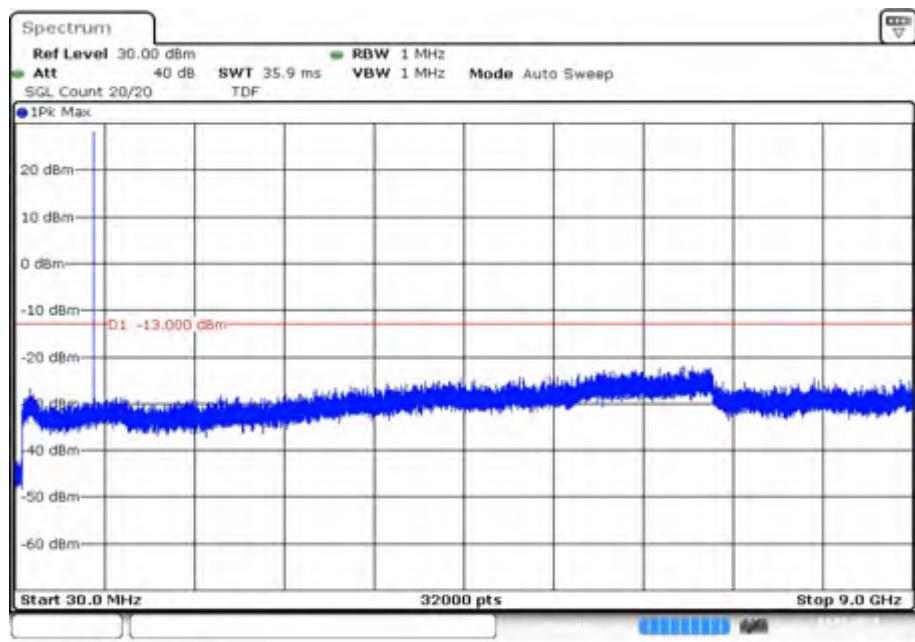
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Fig.3



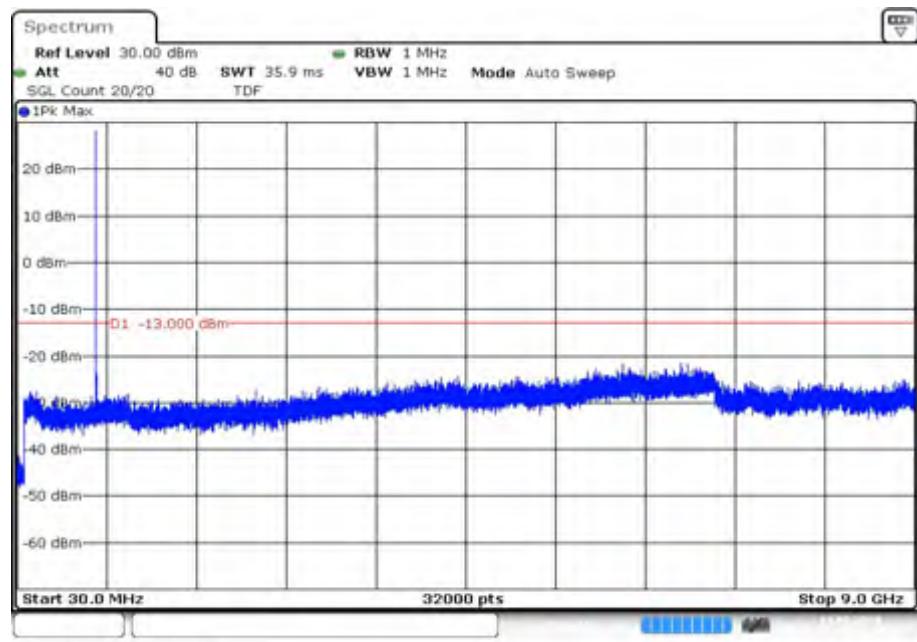
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Fig.4



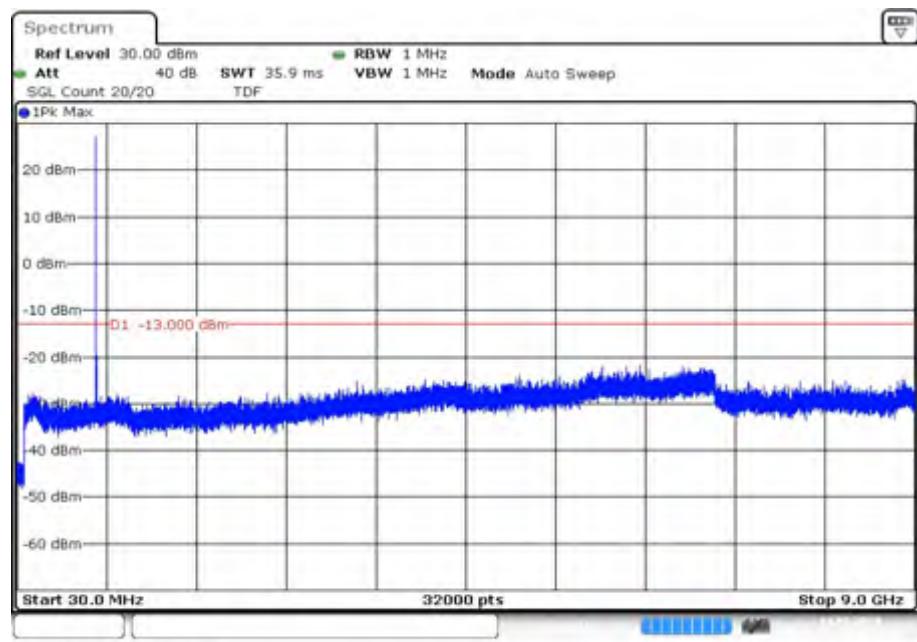
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Fig.5



Date: 14.MAR.2018 15:01:24

Fig.6



Date: 14.MAR.2018 15:01:32

Fig.7

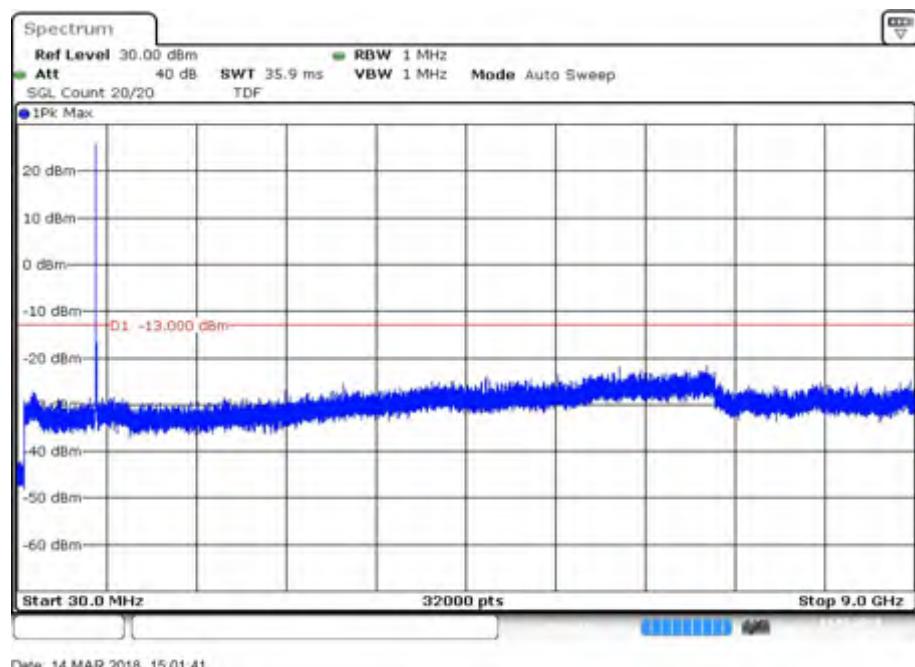


Fig.8

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
26	831.5	26865	3	1	0	Fig.1	Fig.5
				1	14	Fig.2	Fig.6
				8	4	Fig.3	Fig.7
				15	0	Fig.4	Fig.8

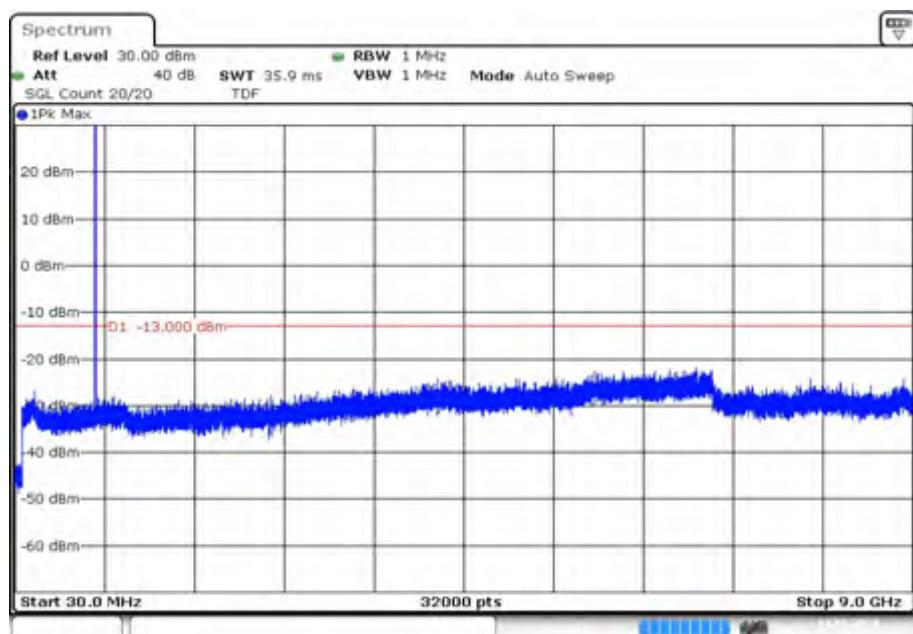
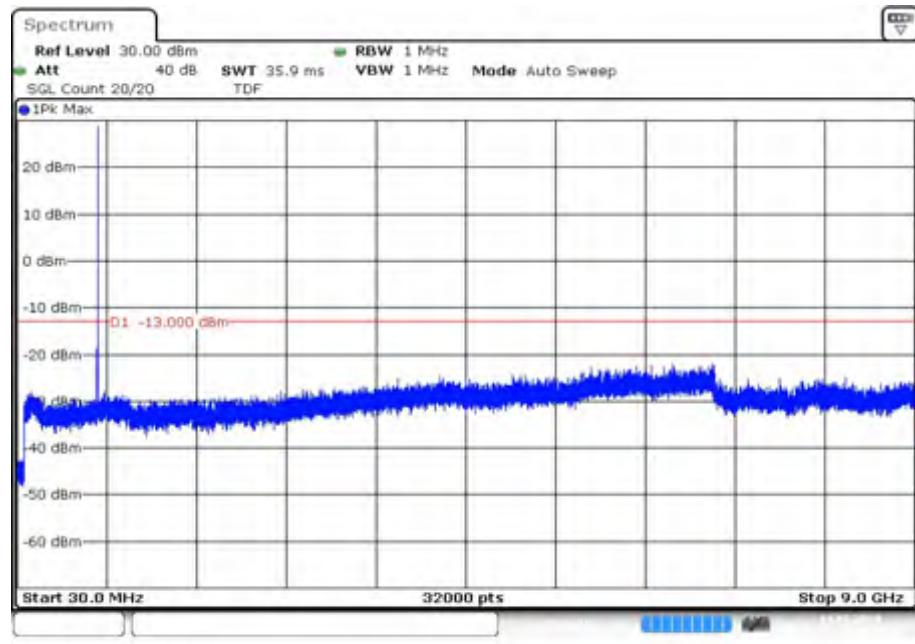
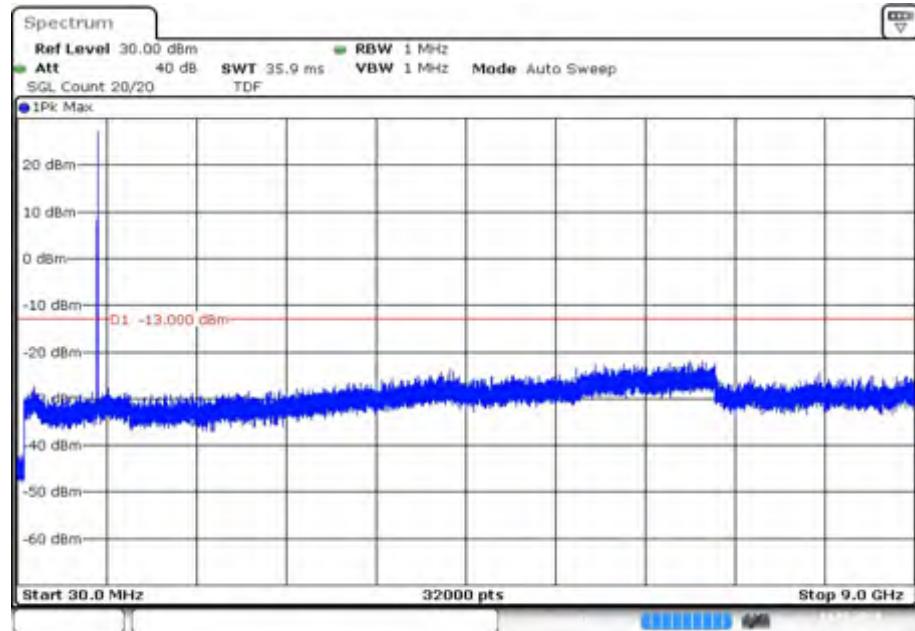


Fig.1



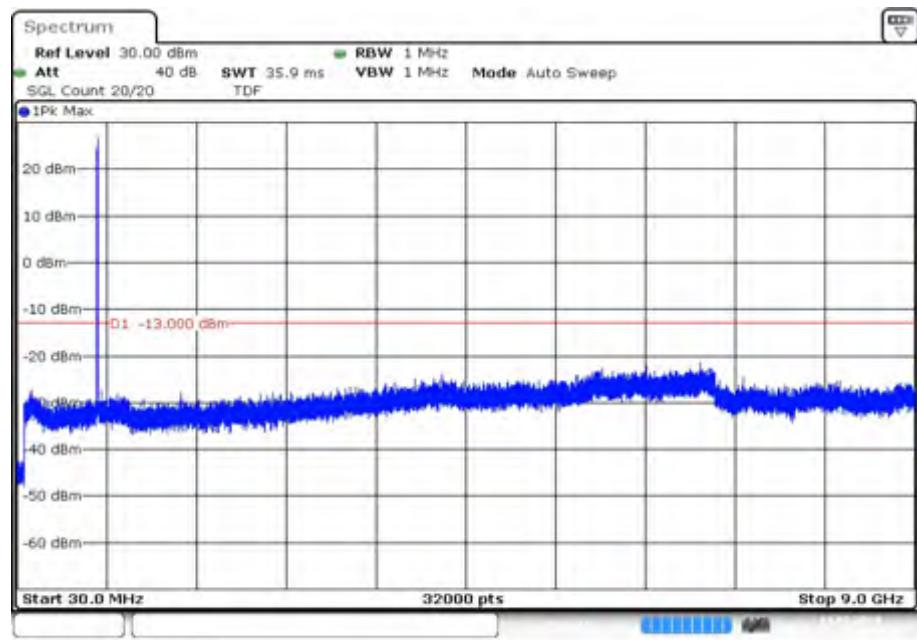
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Fig.2



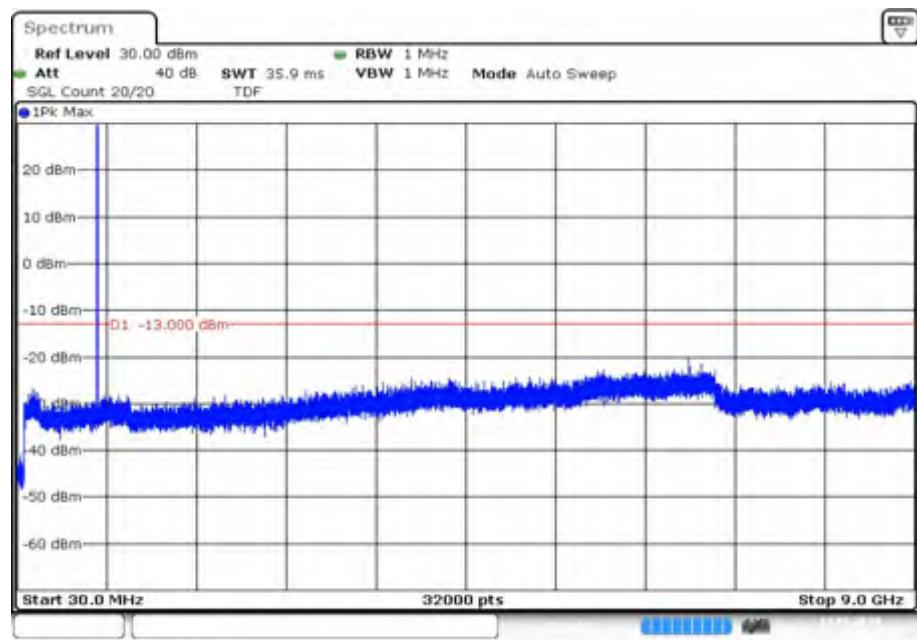
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Fig.3



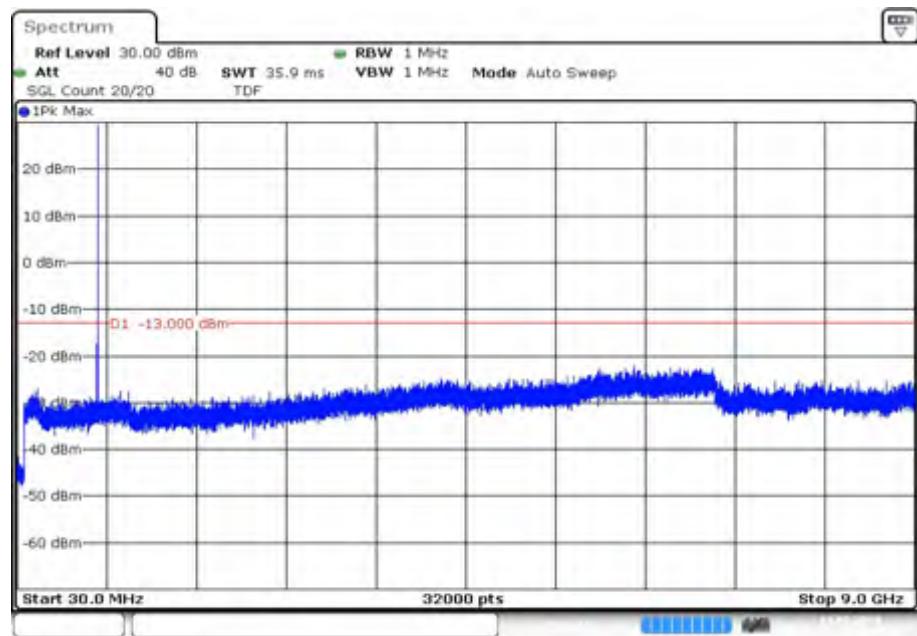
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Fig.4



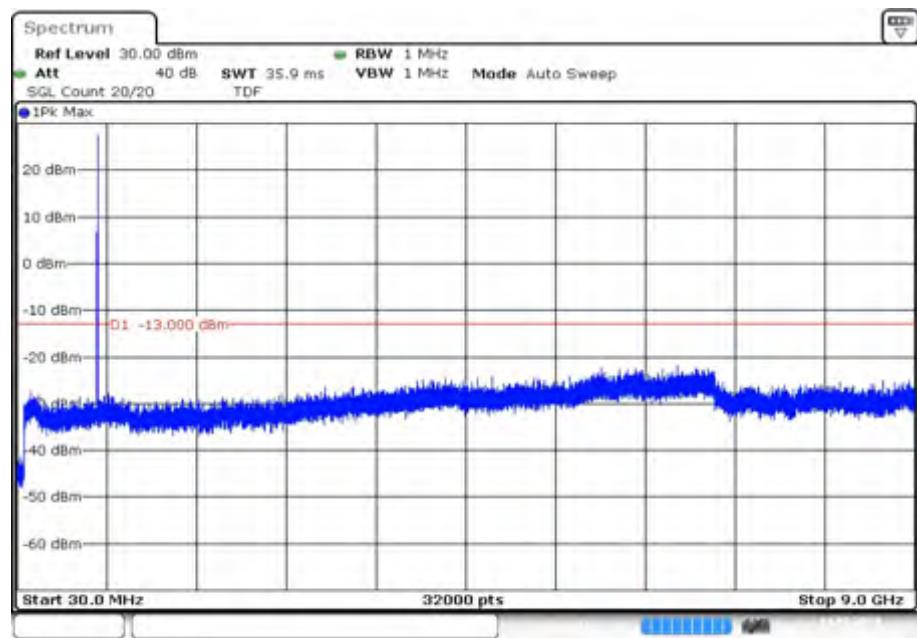
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Fig.5



Date: 14.MAR.2018 15:11:07

Fig.6



Date: 14.MAR.2018 15:11:16

Fig.7

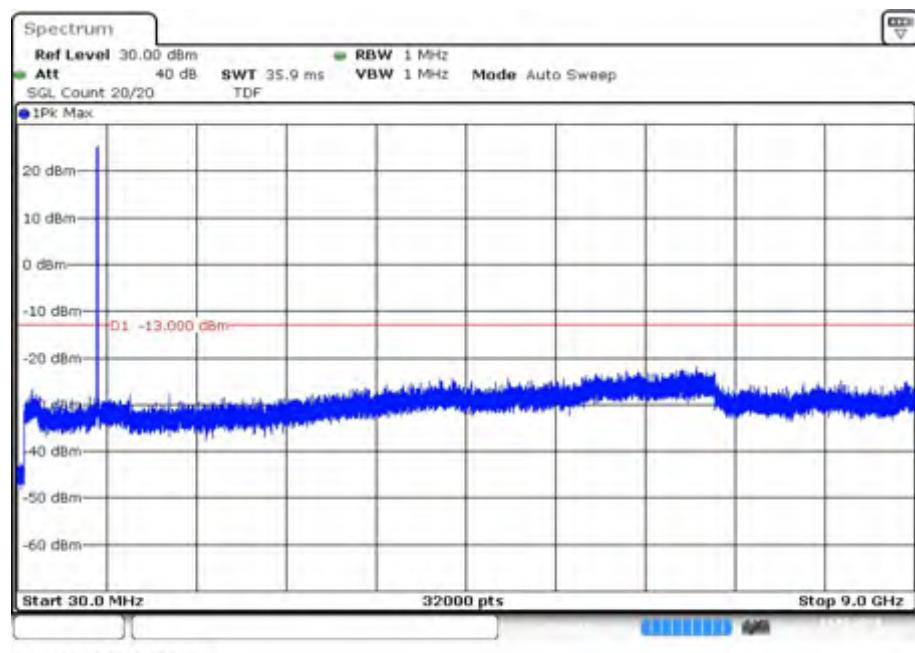


Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
26	847.5	27025	3	1	0	Fig.1	Fig.5
				1	14	Fig.2	Fig.6
				8	4	Fig.3	Fig.7
				15	0	Fig.4	Fig.8

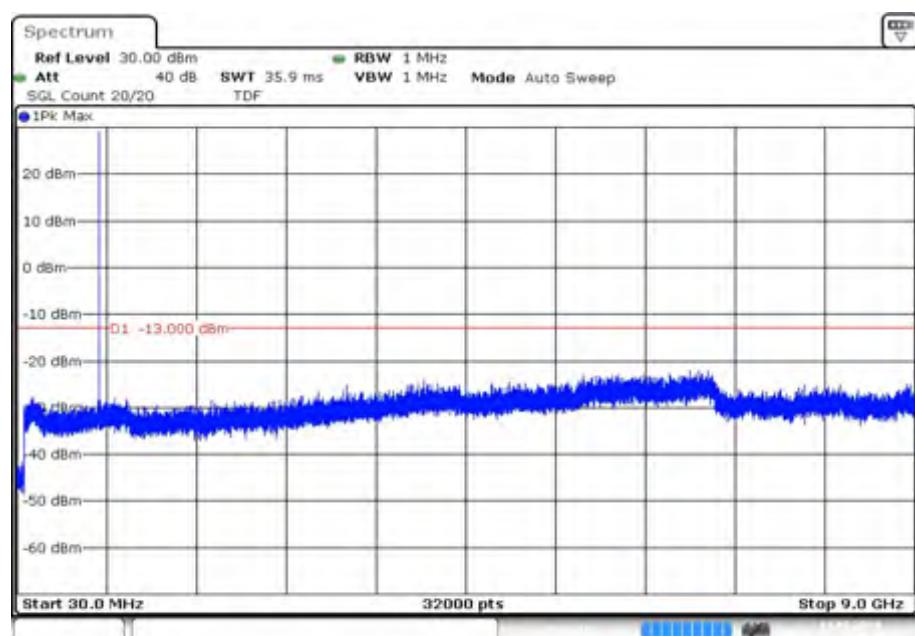
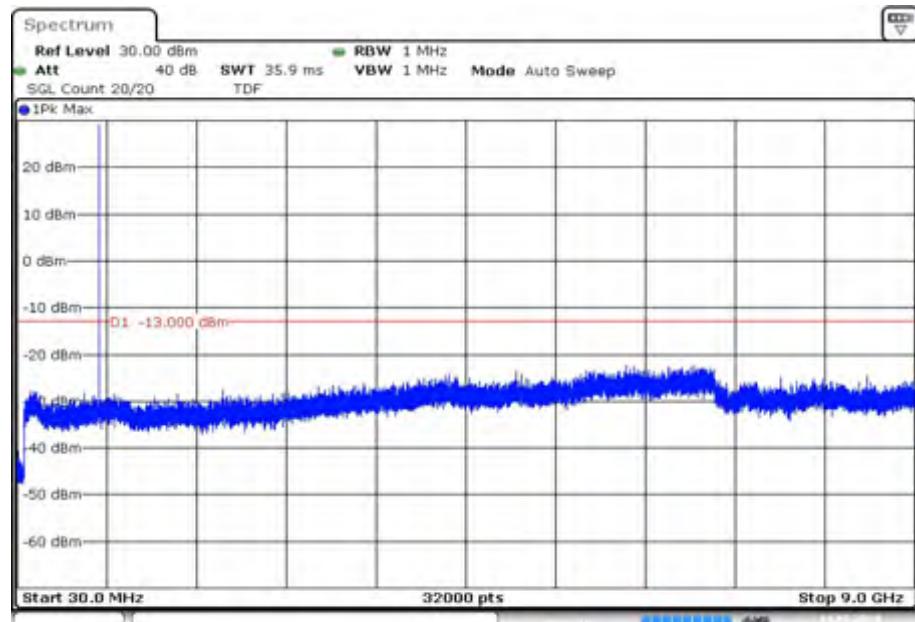
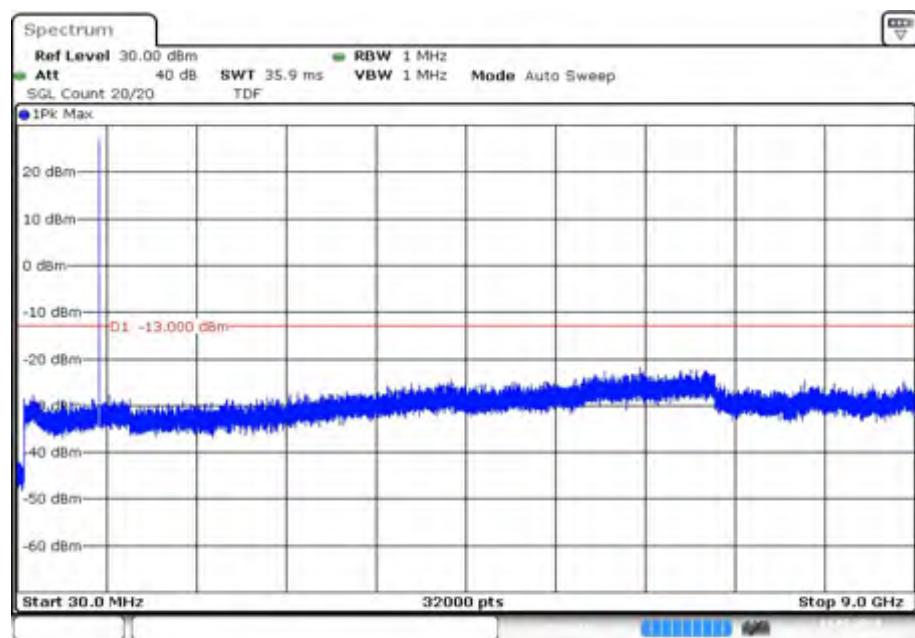


Fig.1



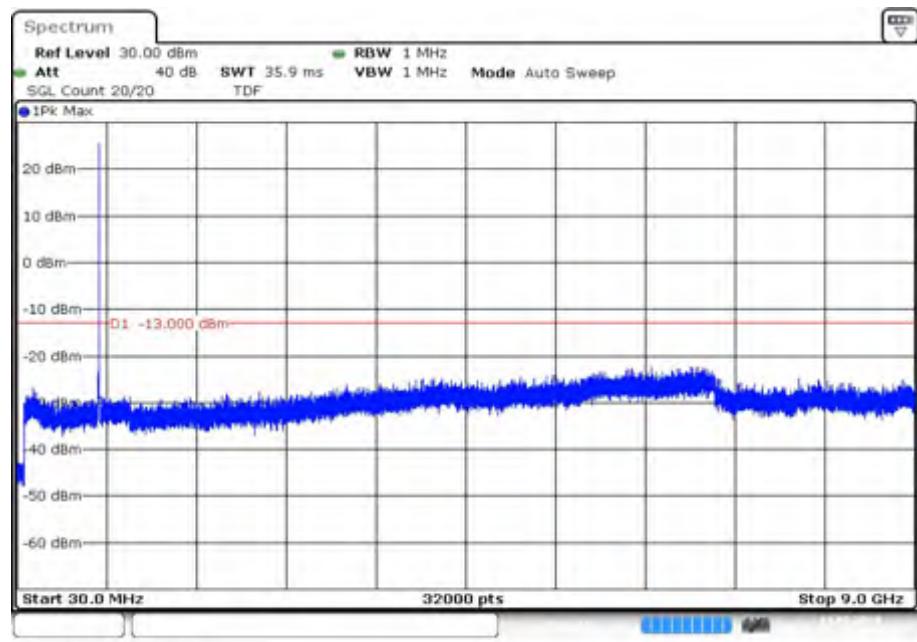
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Fig.2



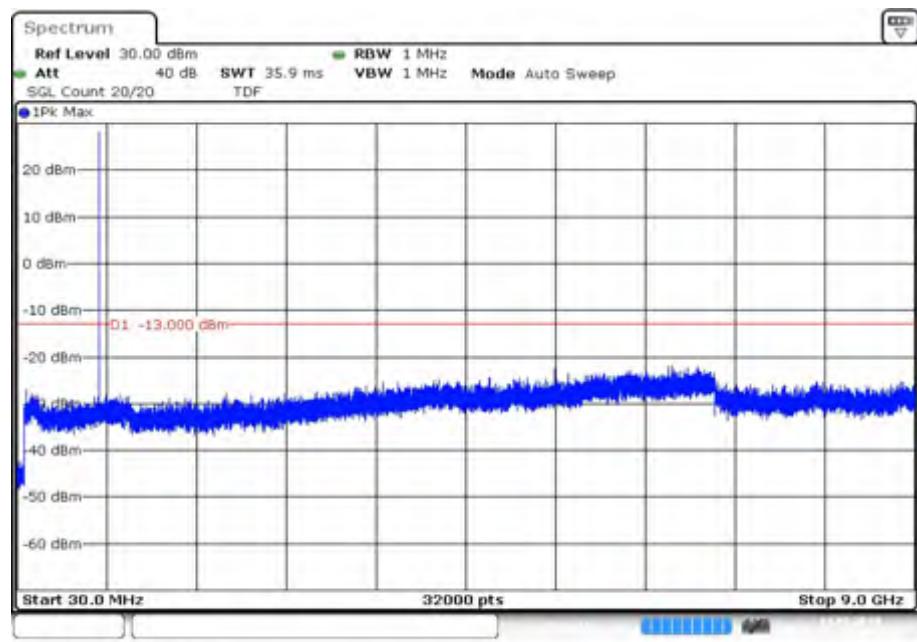
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Fig.3



Date: 14.MAR.2018 15:18:47

Fig.4



Date: 14.MAR.2018 15:18:56

Fig.5

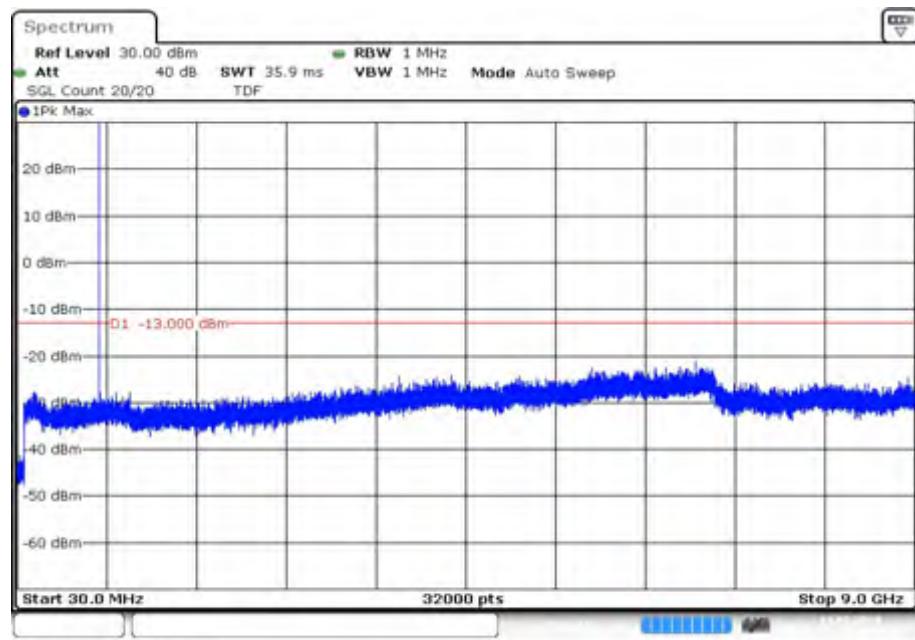


Fig.6

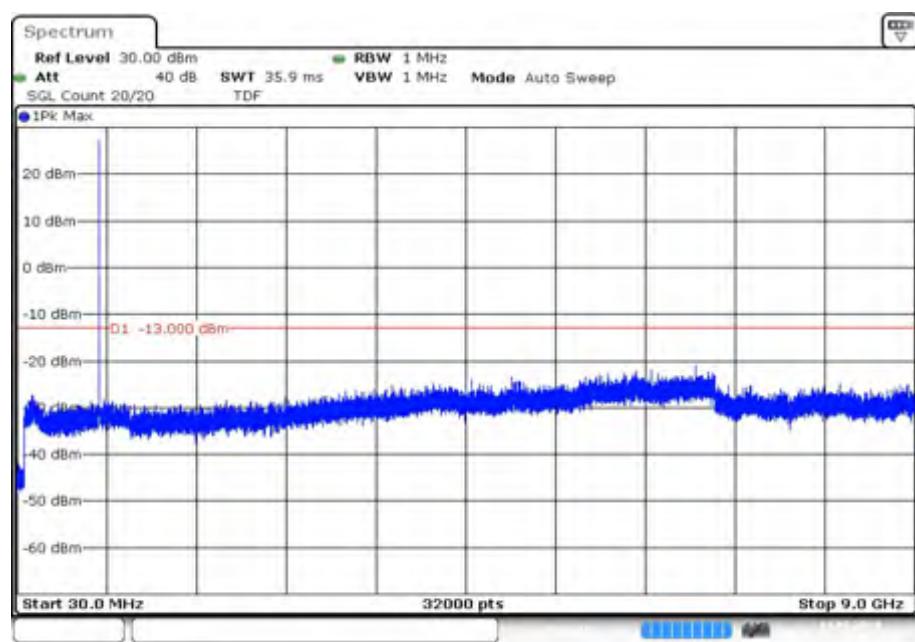


Fig.7

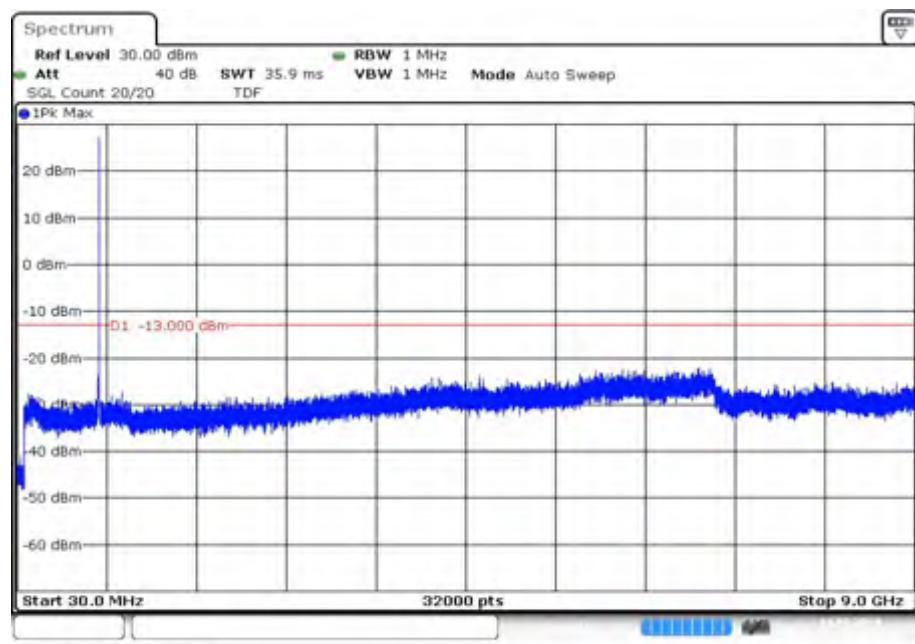


Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
26	816.5	26715	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

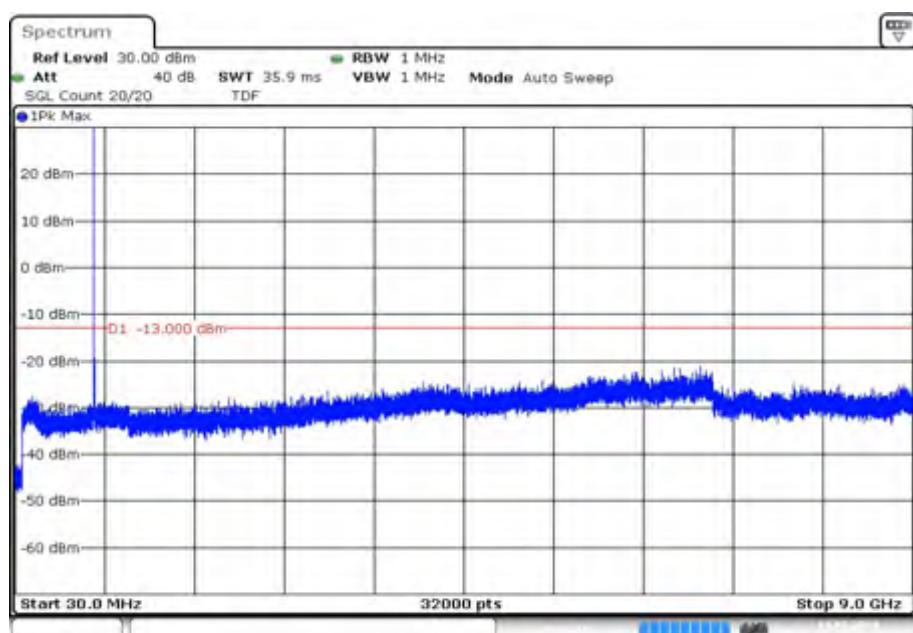
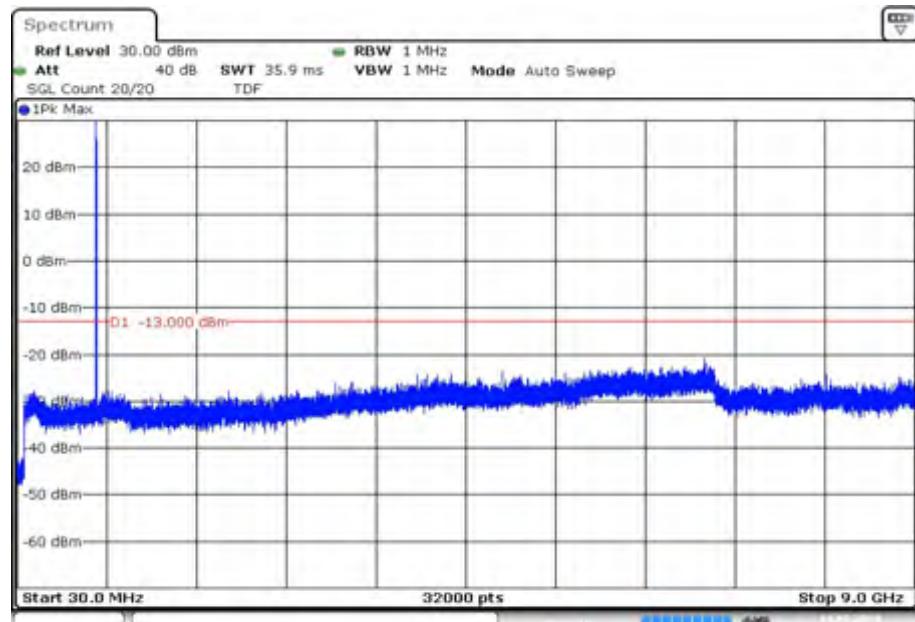
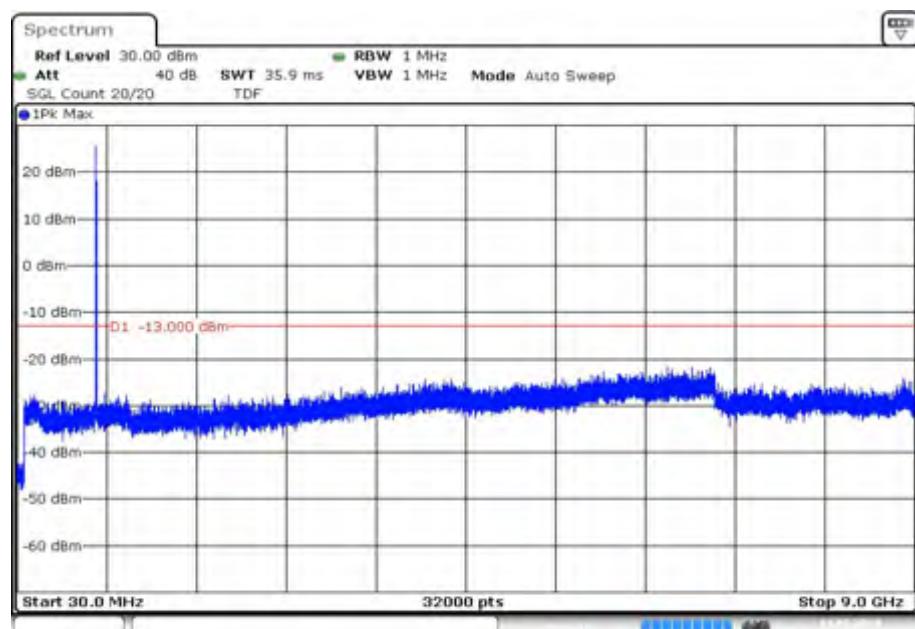


Fig.1



Date: 14 MAR 2018 15:27:45

Fig.2



Date: 14 MAR 2018 15:27:54

Fig.3

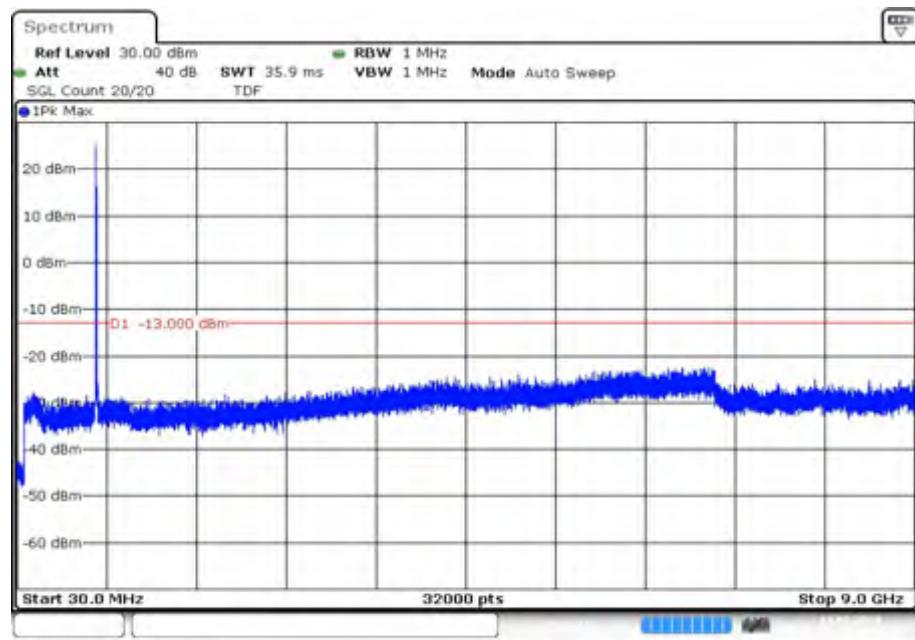


Fig.4

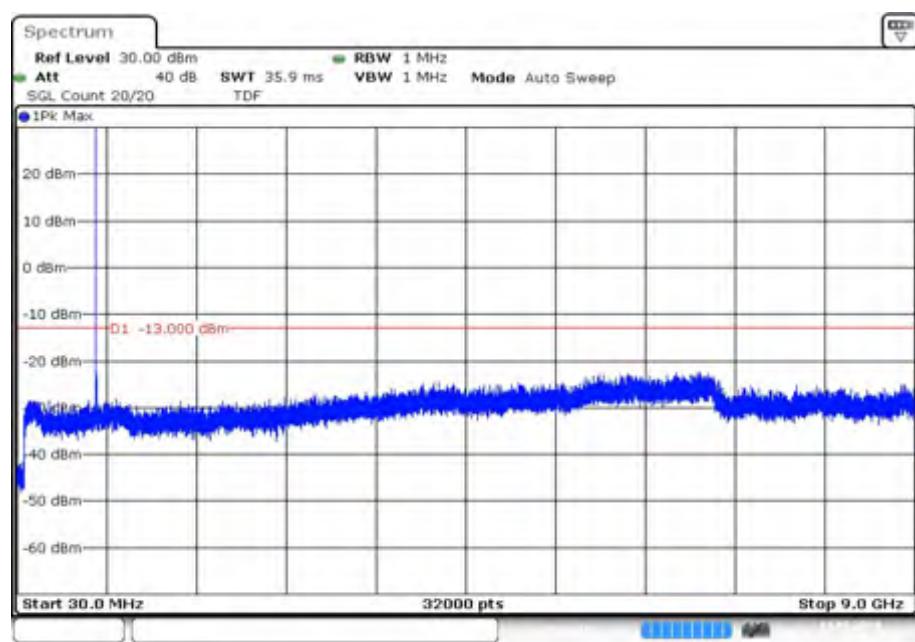
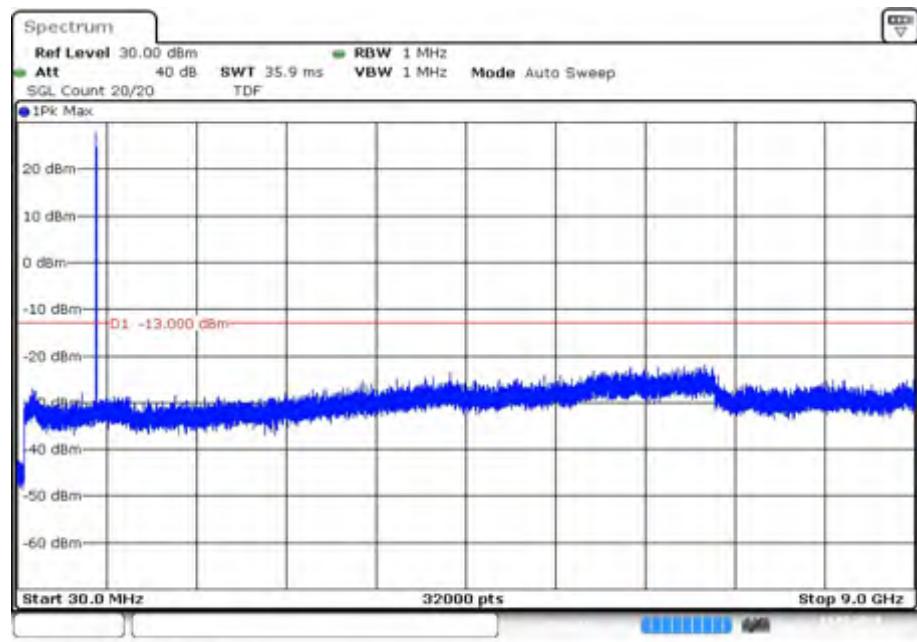
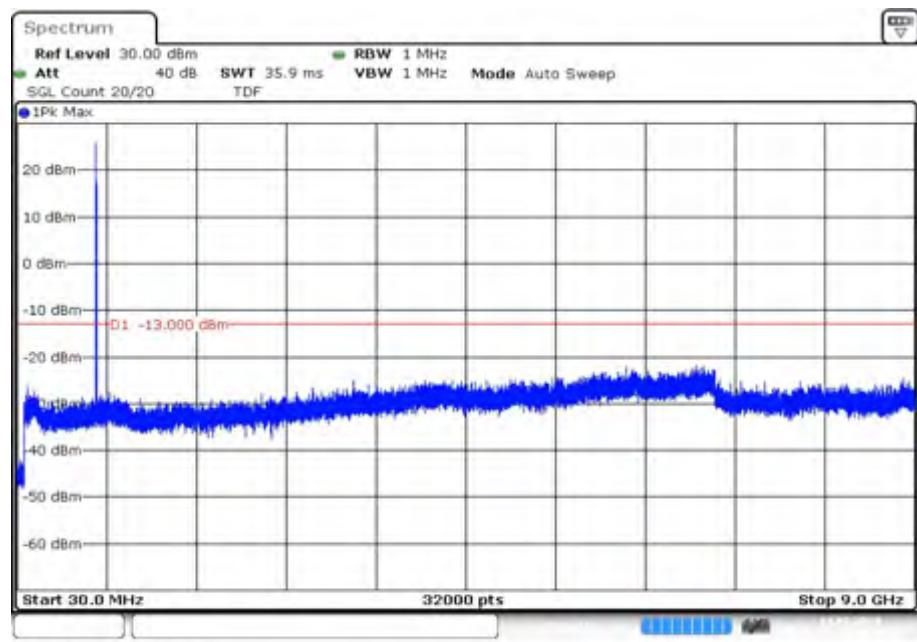


Fig.5



Date: 14 MAR 2018 15:28:20

Fig.6



Date: 14 MAR 2018 15:28:29

Fig.7

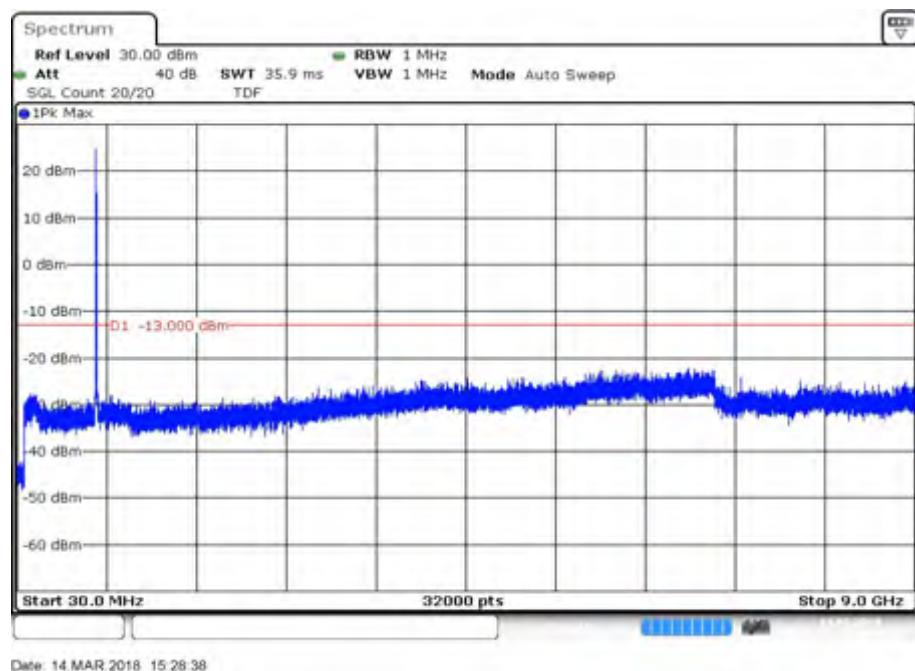


Fig.8

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
26	831.5	26865	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

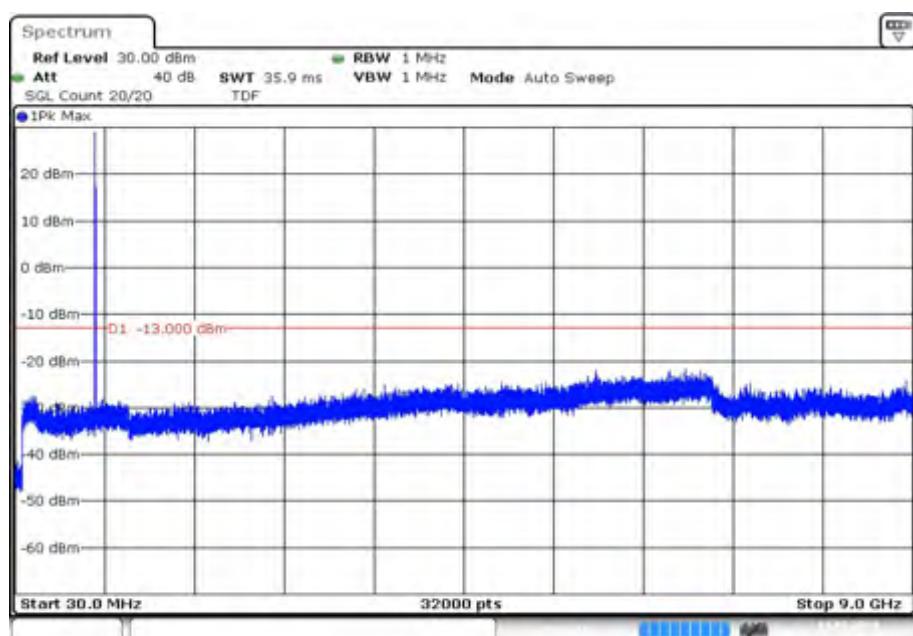


Fig.1

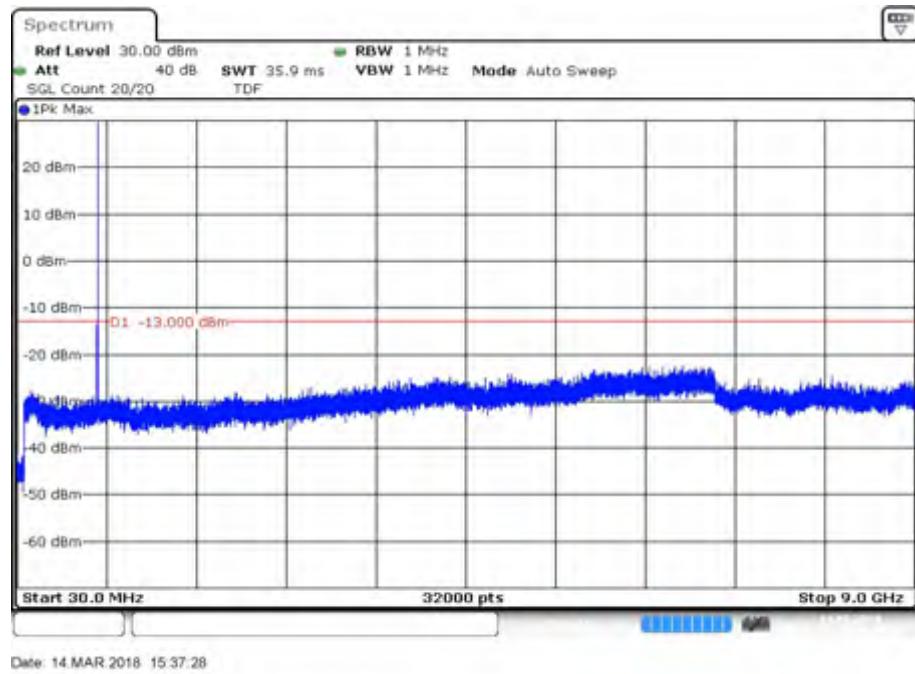


Fig.2

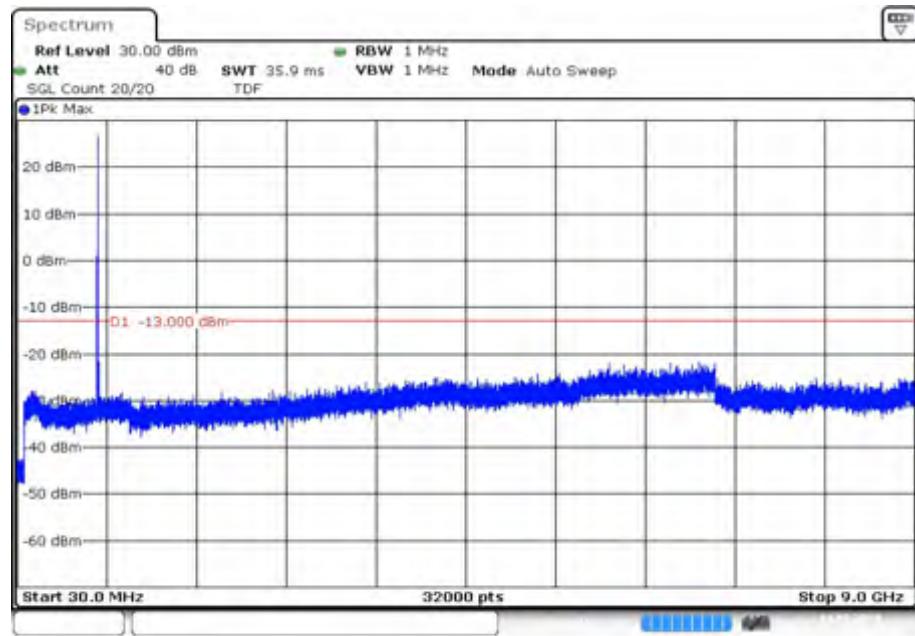
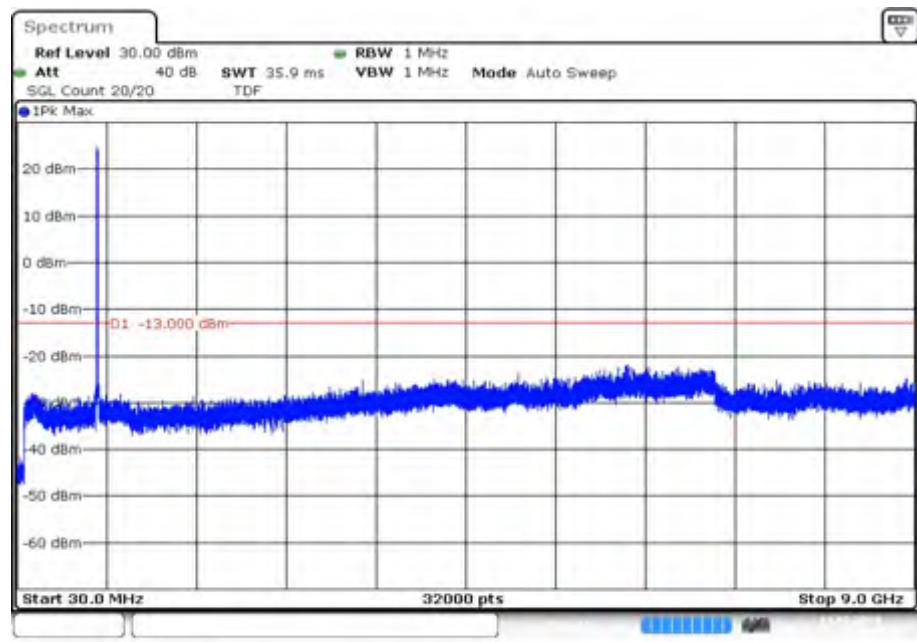
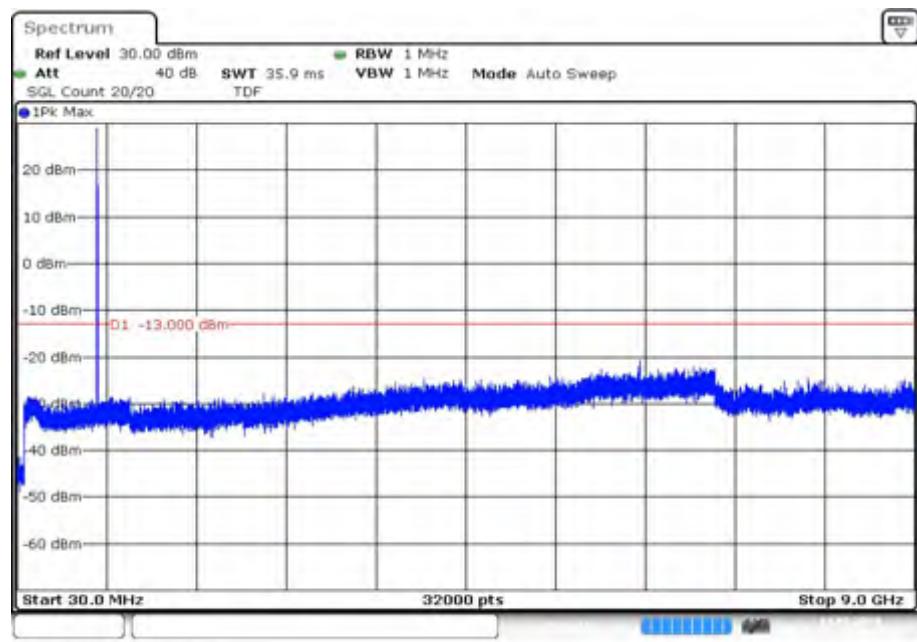


Fig.3



Date: 14 MAR 2018 15:37:46

Fig.4



Date: 14 MAR 2018 15:37:55

Fig.5

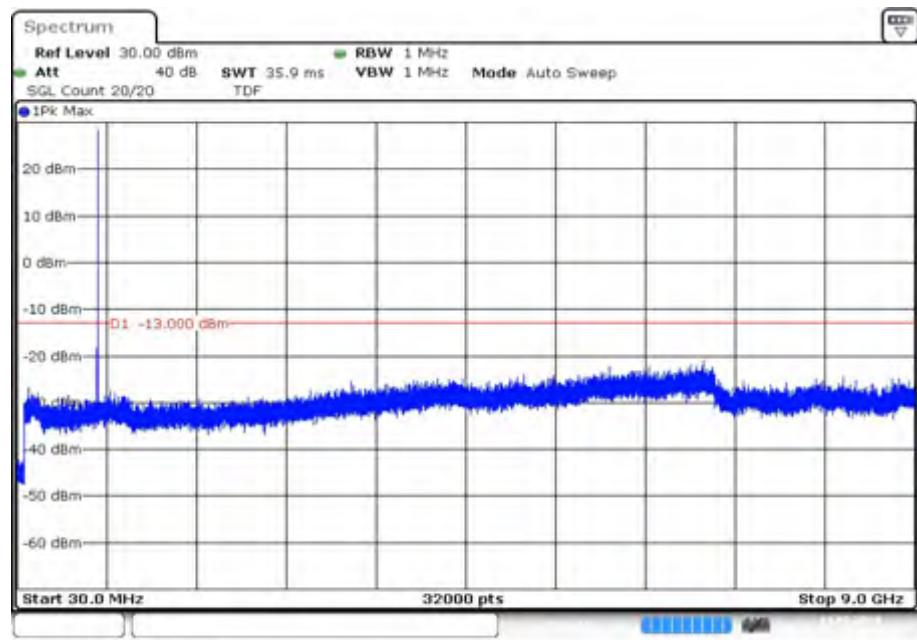


Fig.6

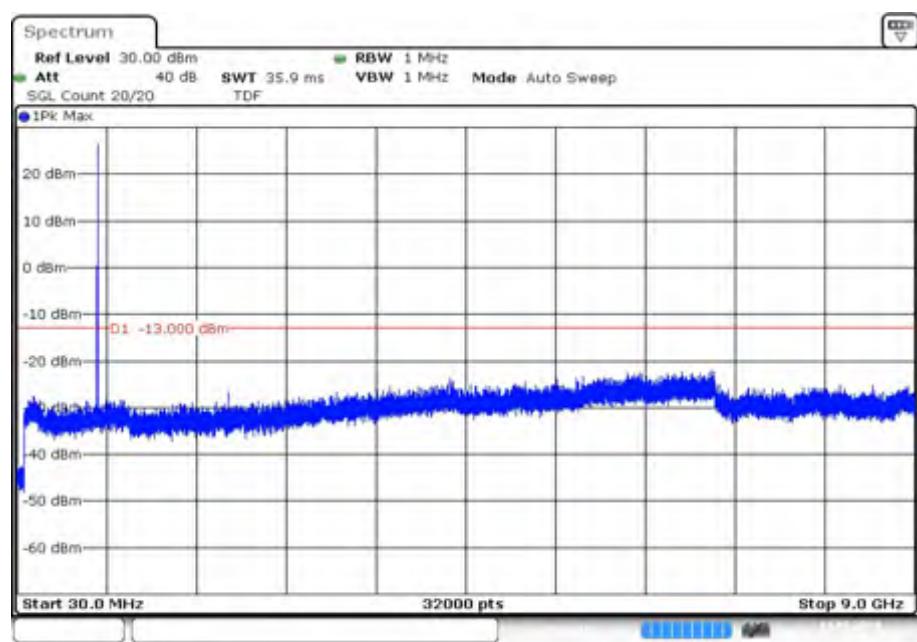


Fig.7

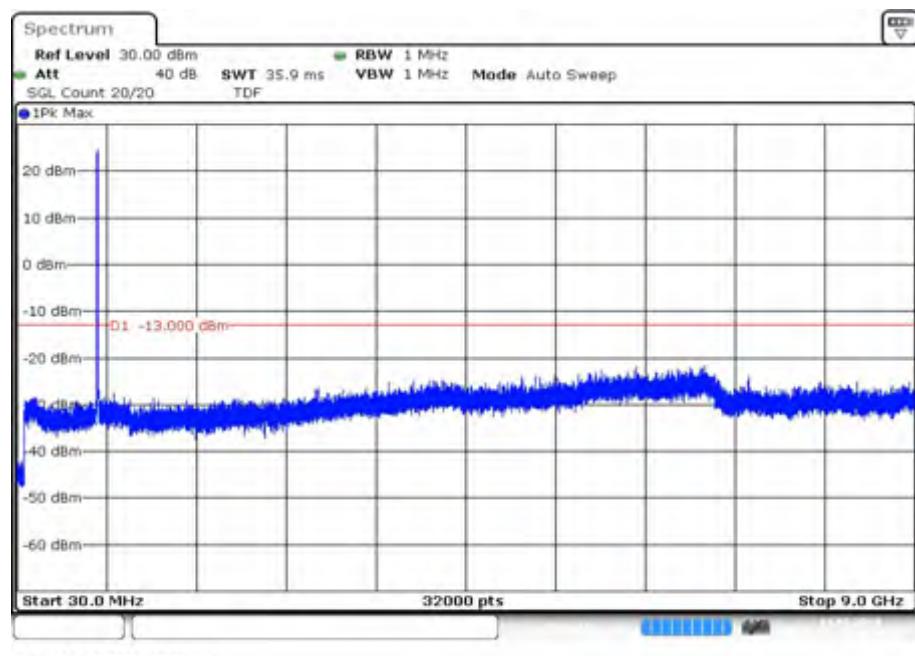


Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
26	846.5	27015	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

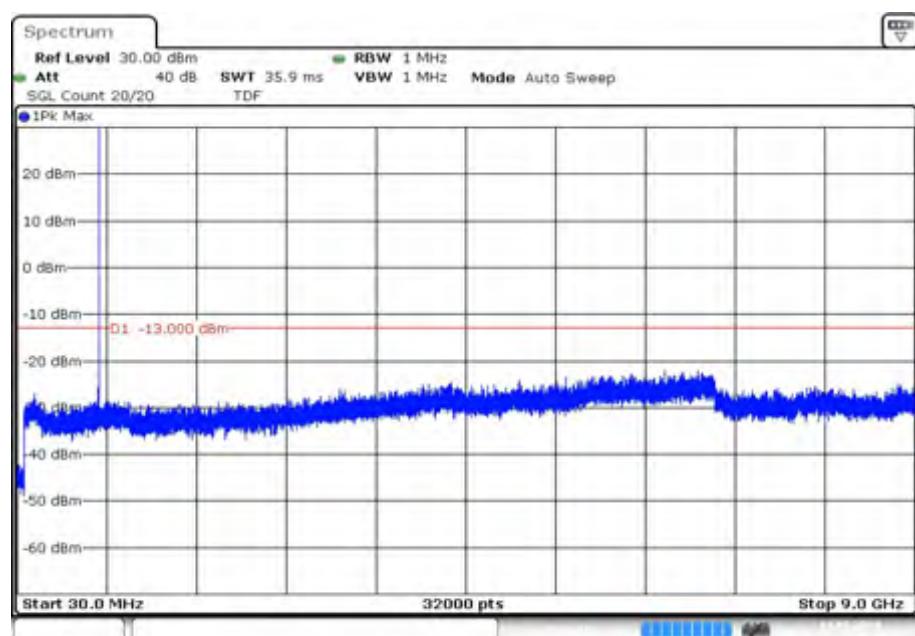
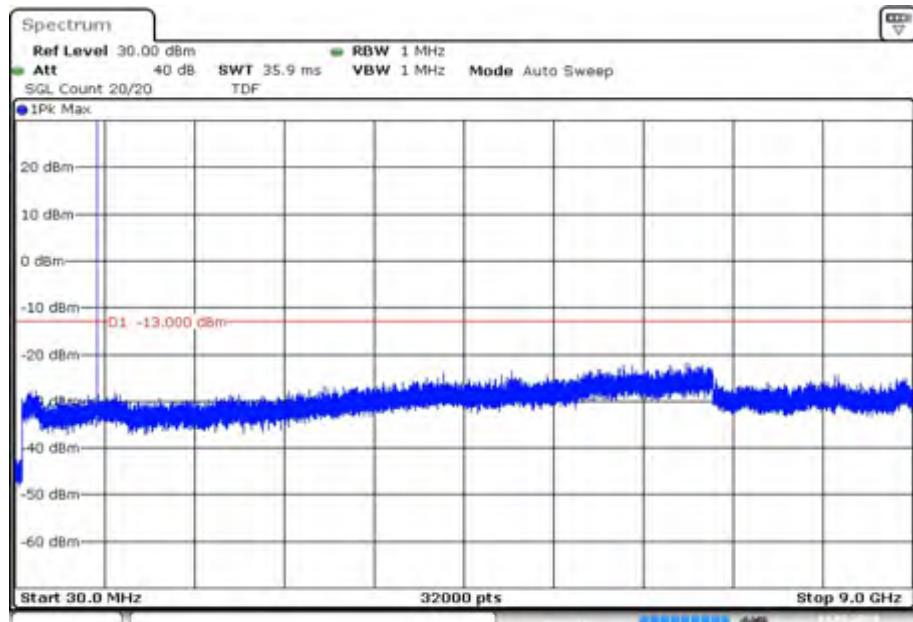
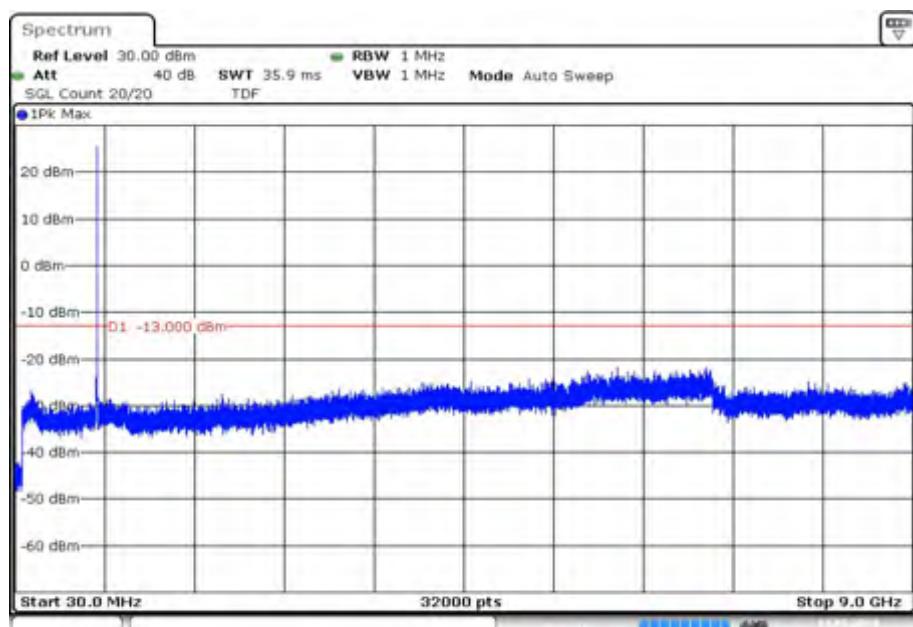


Fig.1



Date: 14 MAR 2018 15:45:25

Fig.2



Date: 14 MAR 2018 15:45:33

Fig.3

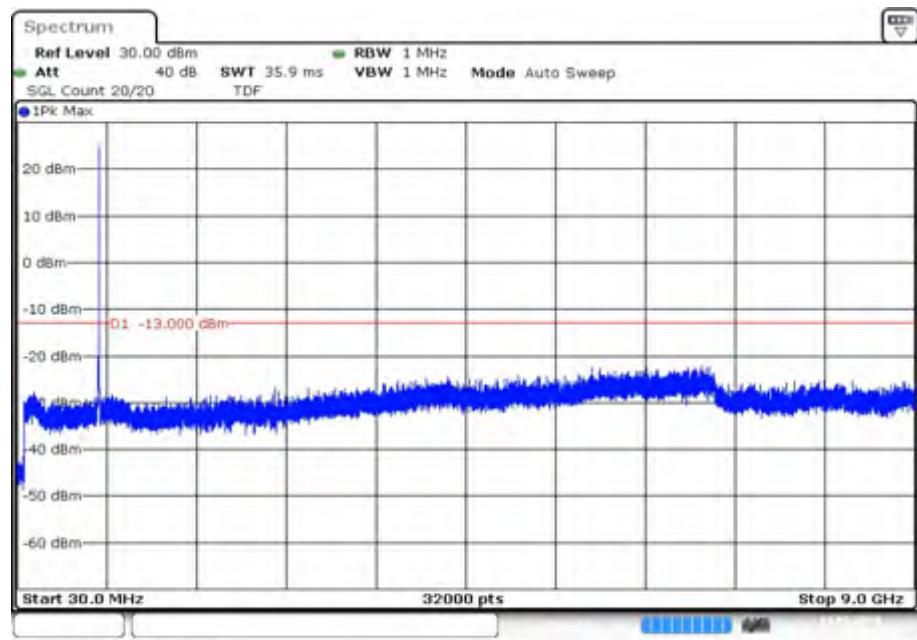


Fig.4

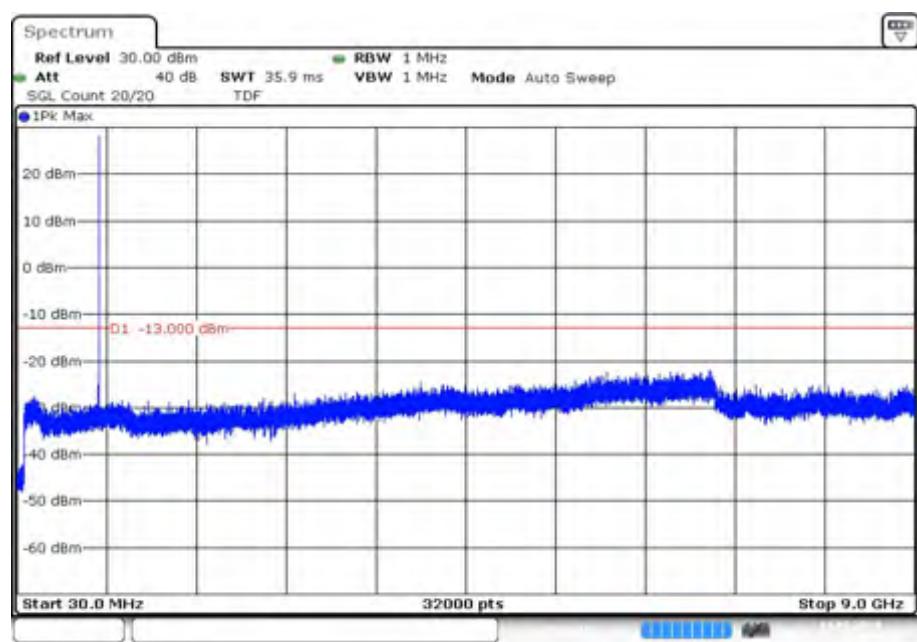
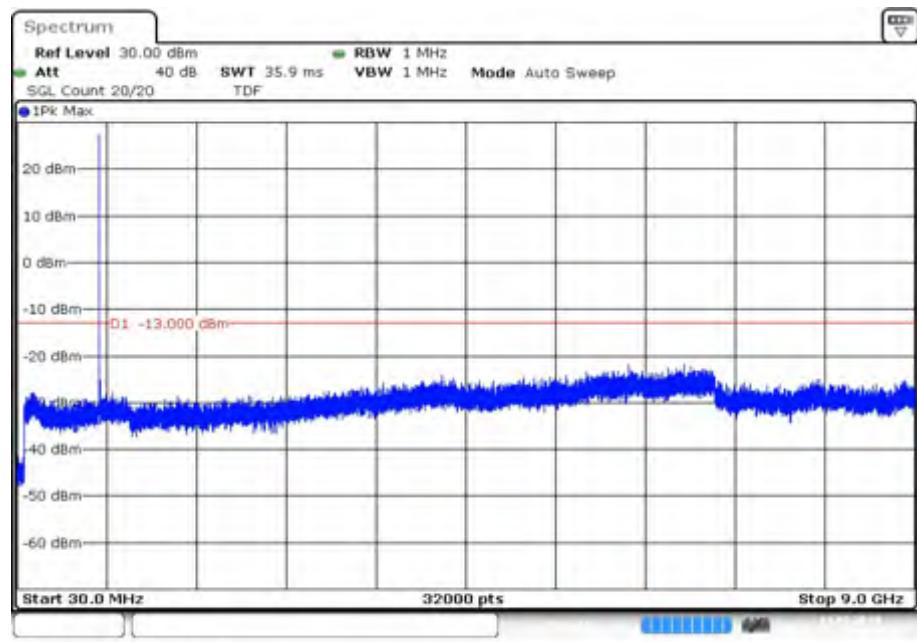
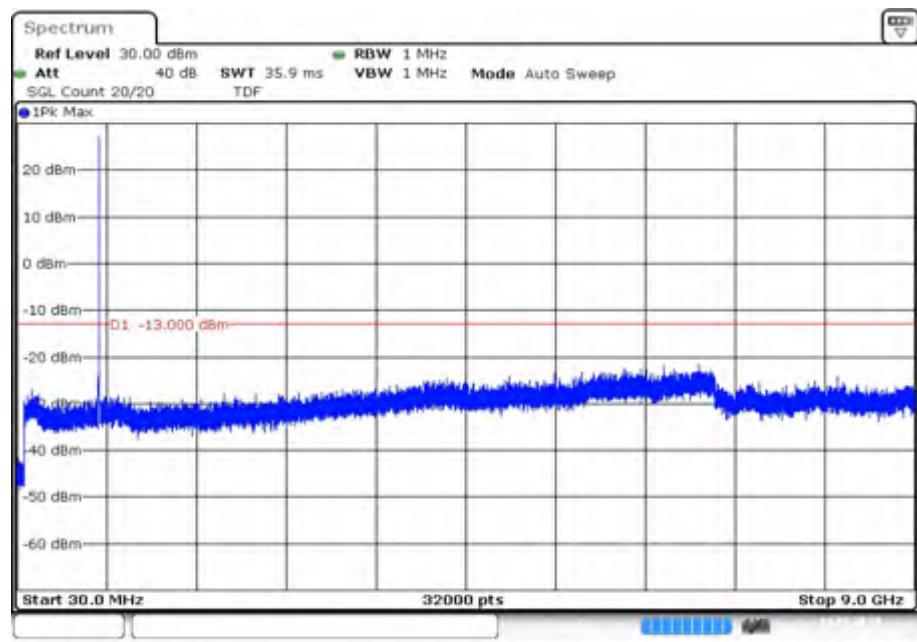


Fig.5



Date: 14.MAR.2018 15:46:00

Fig.6



Date: 14.MAR.2018 15:46:09

Fig.7

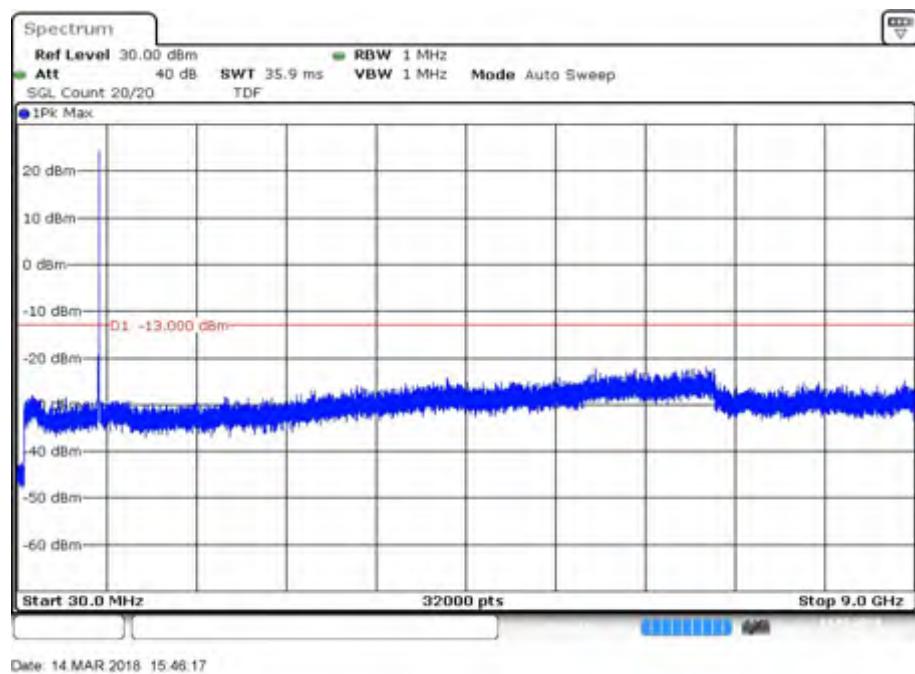


Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
26	819	26740	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

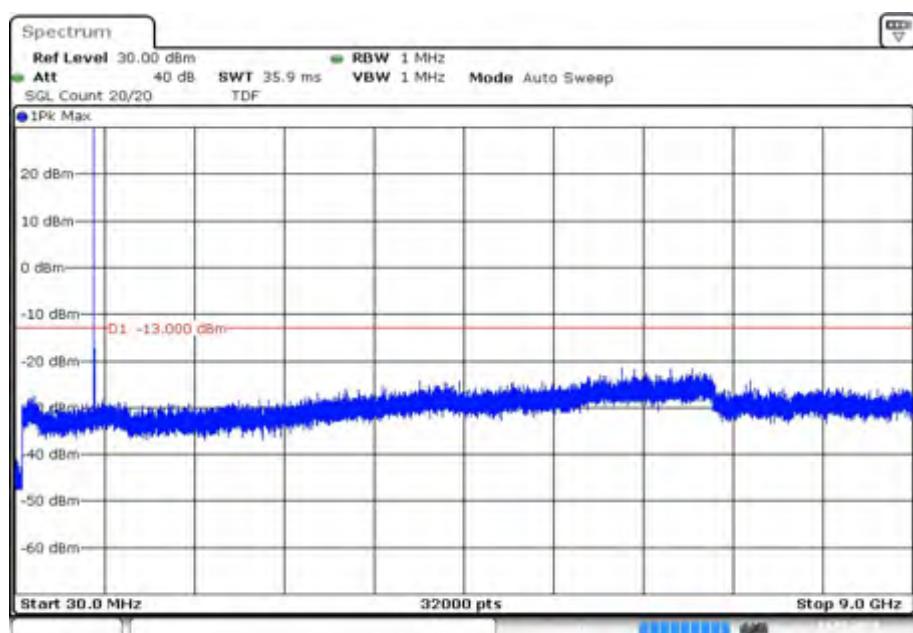
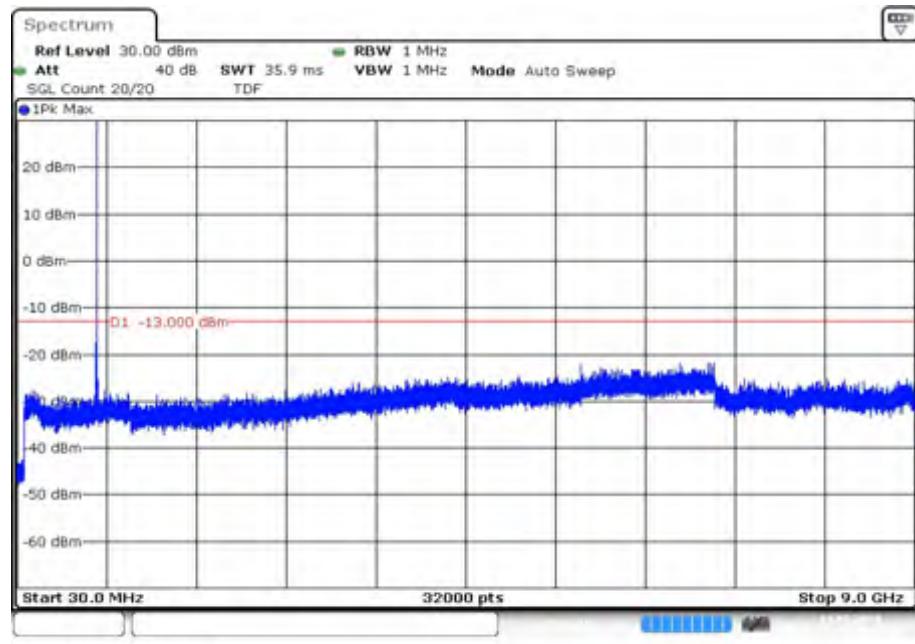
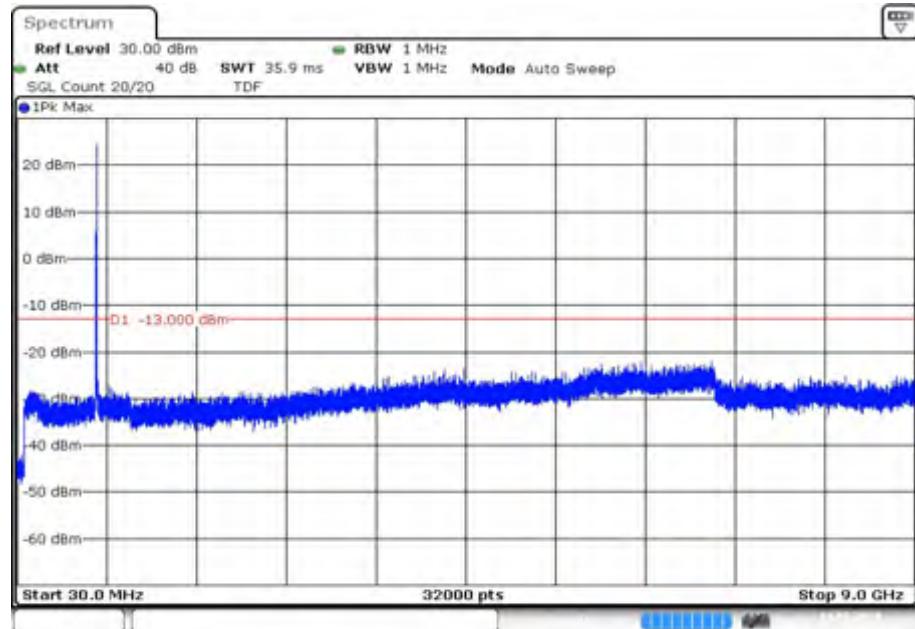


Fig.1



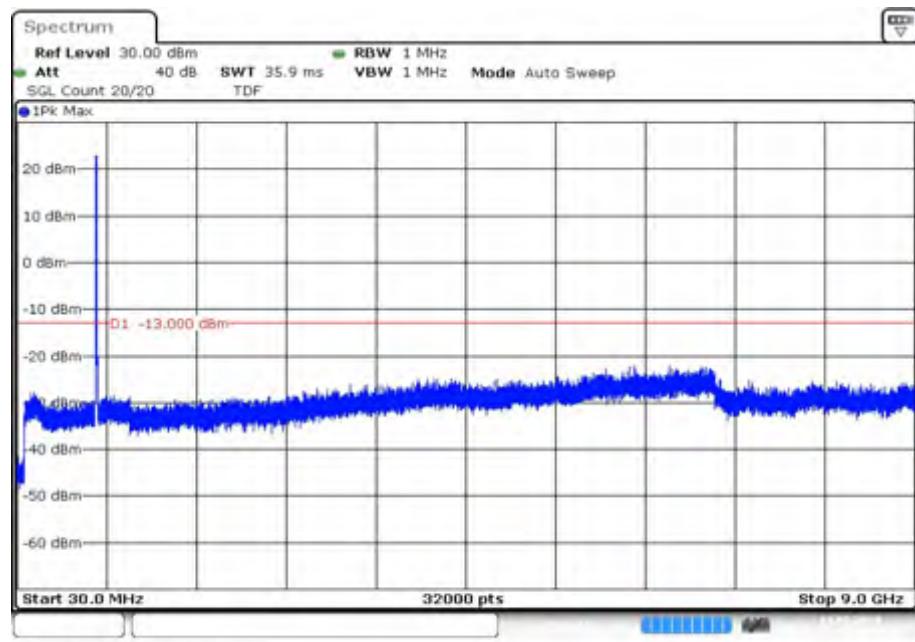
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Fig.2



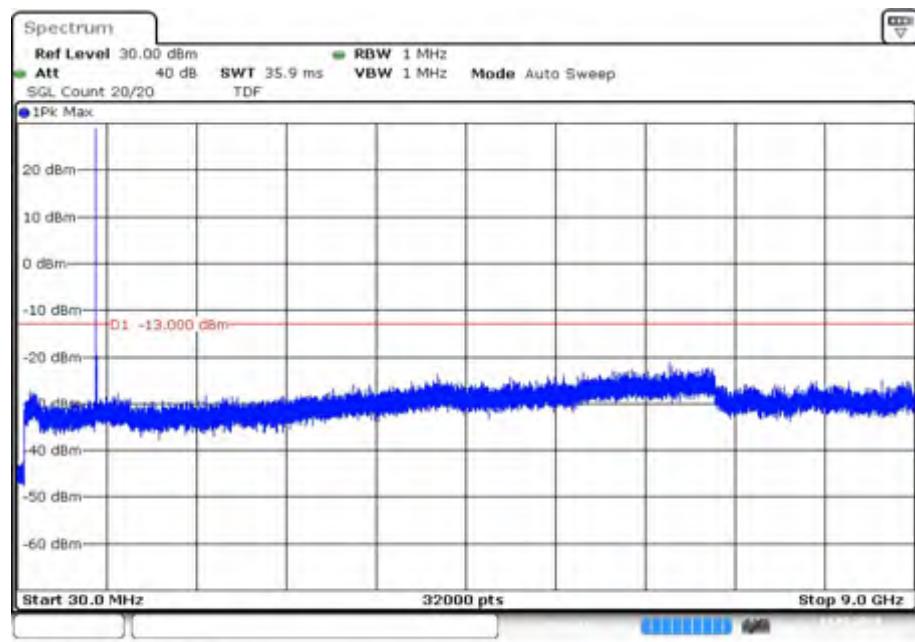
Date: 14 MAR 2018 15:54:50

Fig.3



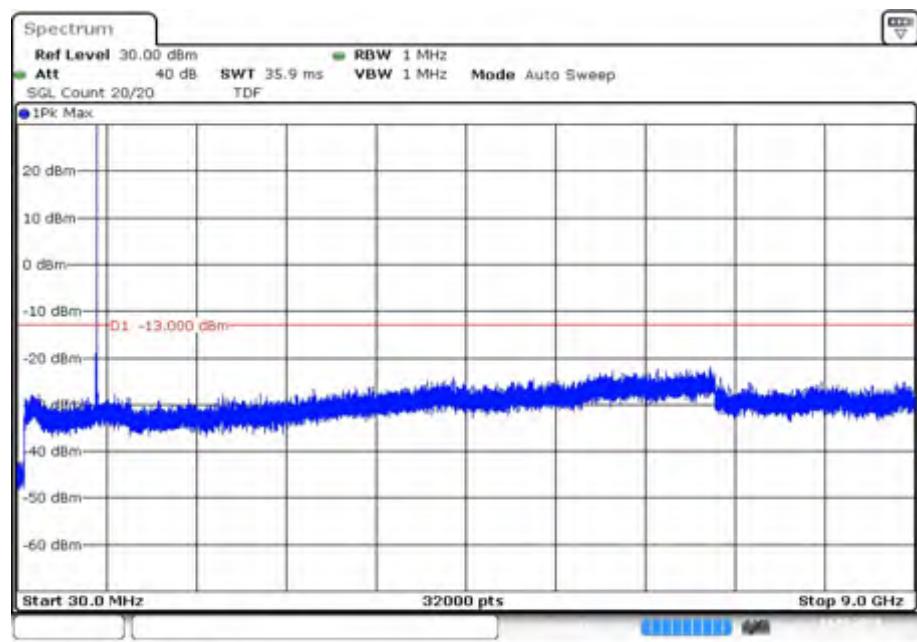
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Fig.4



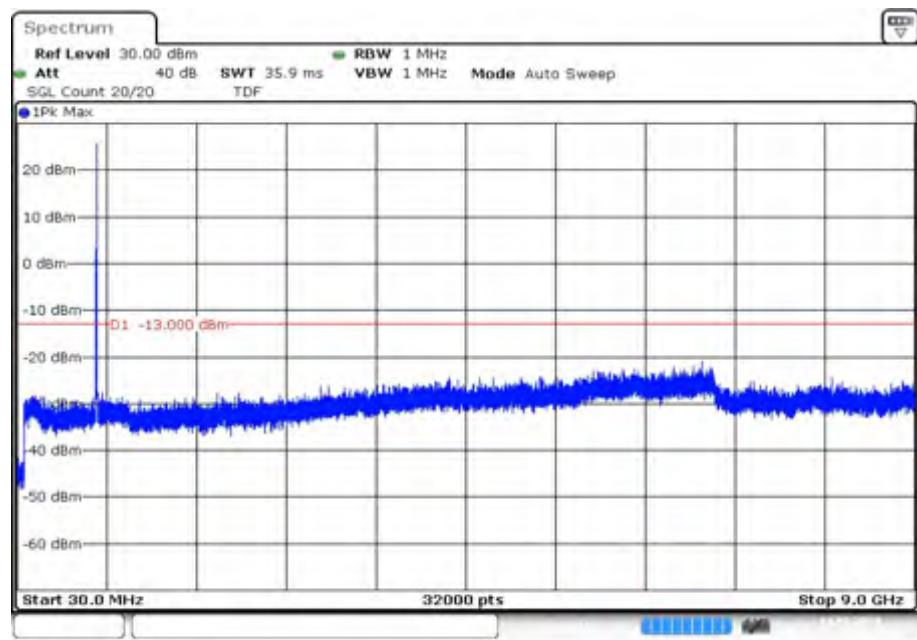
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Fig.5



Date: 14.MAR.2018 15:55:17

Fig.6



Date: 14.MAR.2018 15:55:26

Fig.7

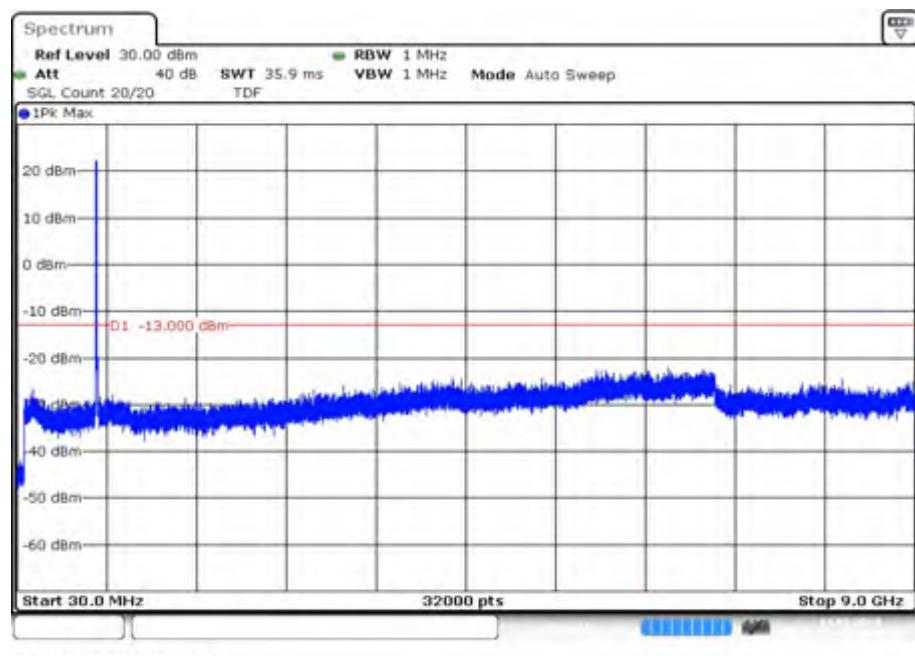


Fig.8

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
26	831.5	26865	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

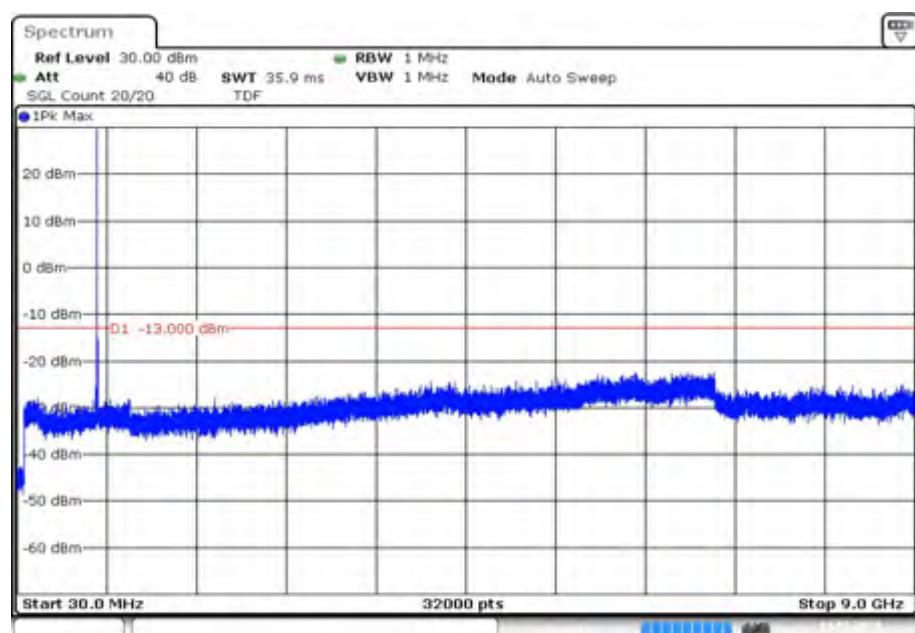
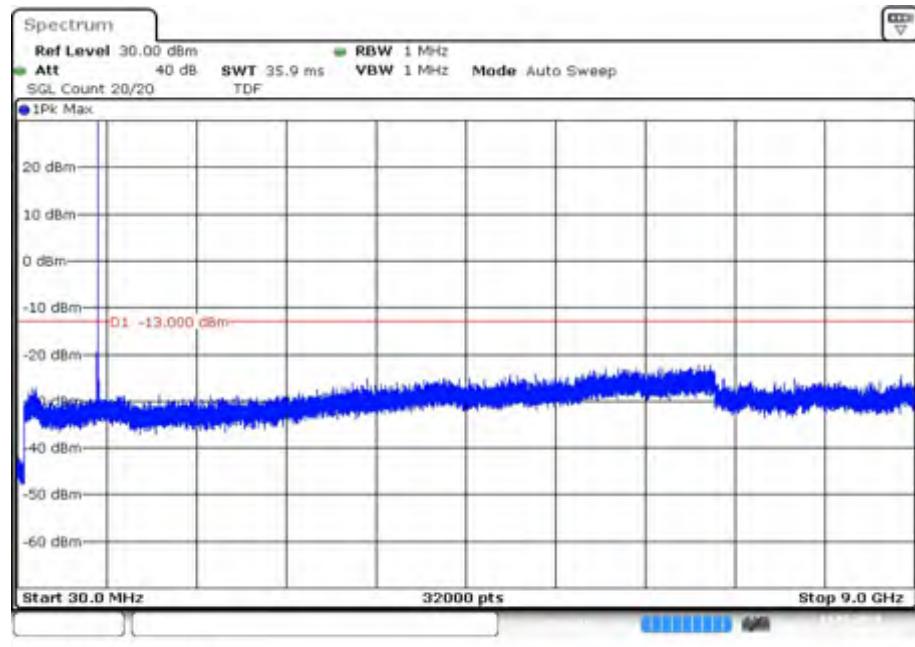
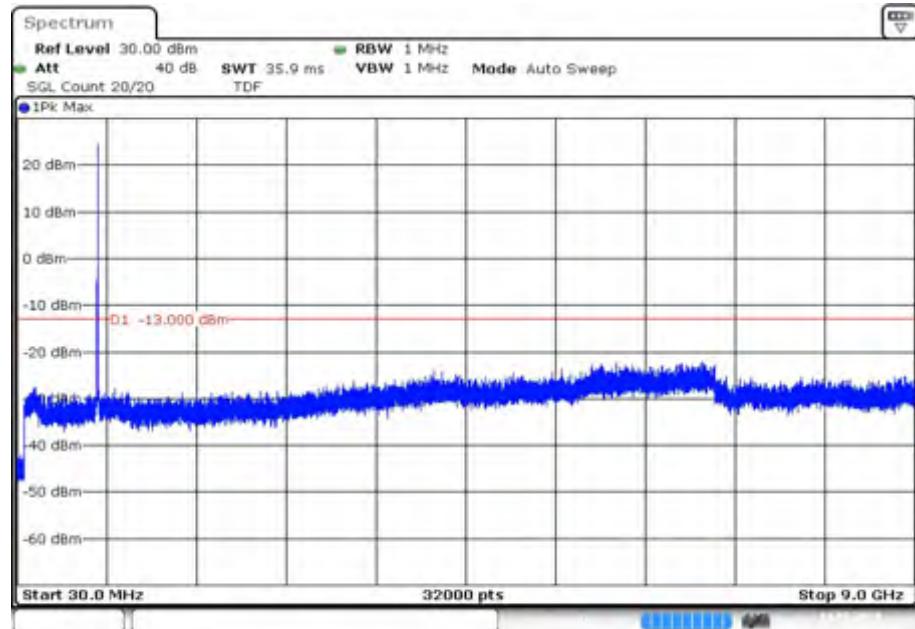


Fig.1



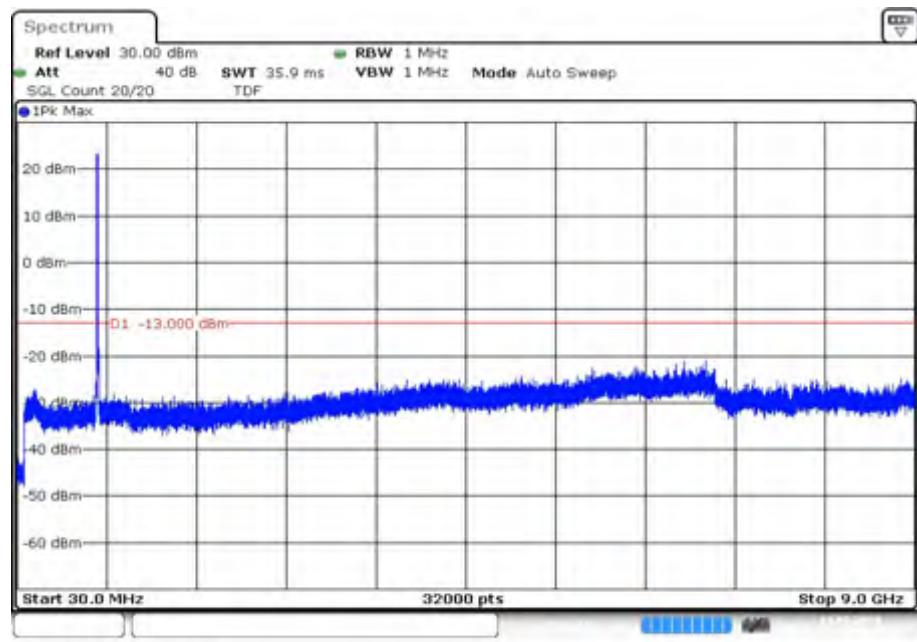
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Fig.2



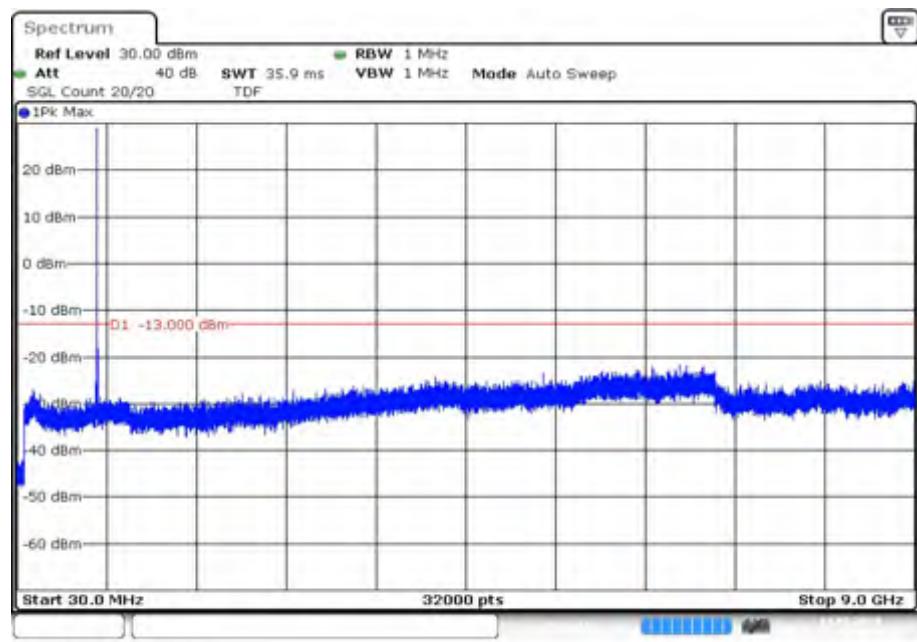
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Fig.3



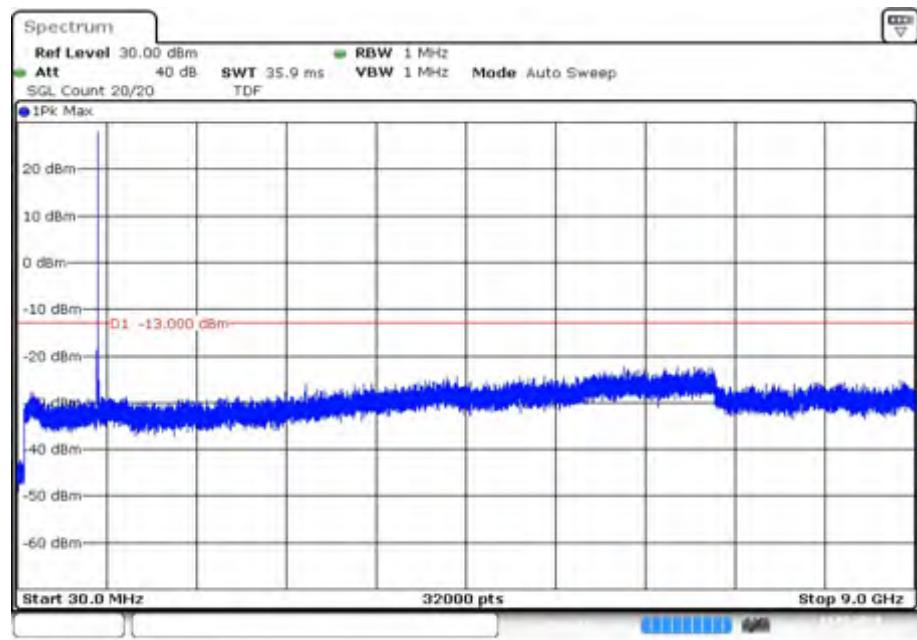
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Fig.4



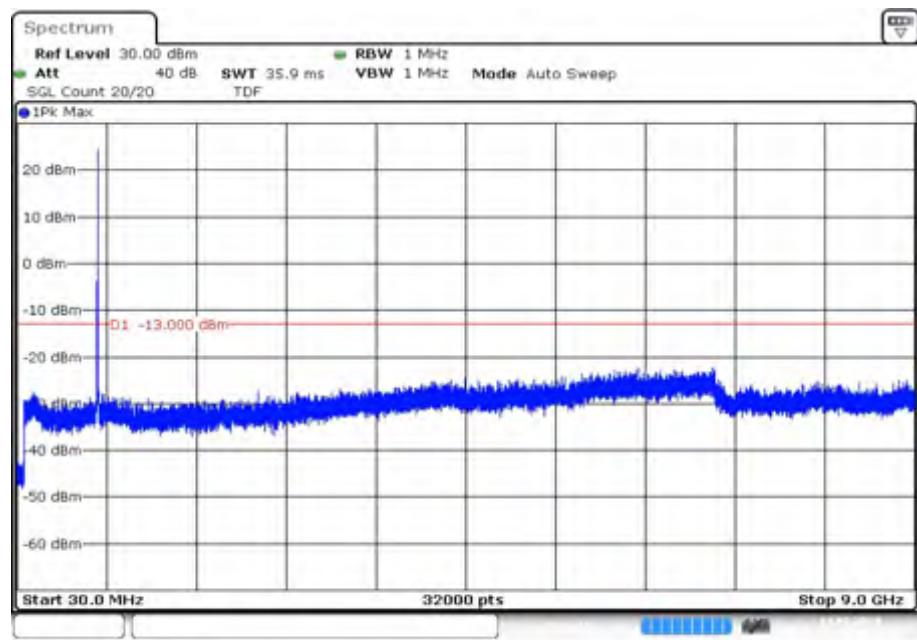
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Fig.5



Date: 14.MAR.2018 16:05:05

Fig.6



Date: 14.MAR.2018 16:05:14

Fig.7

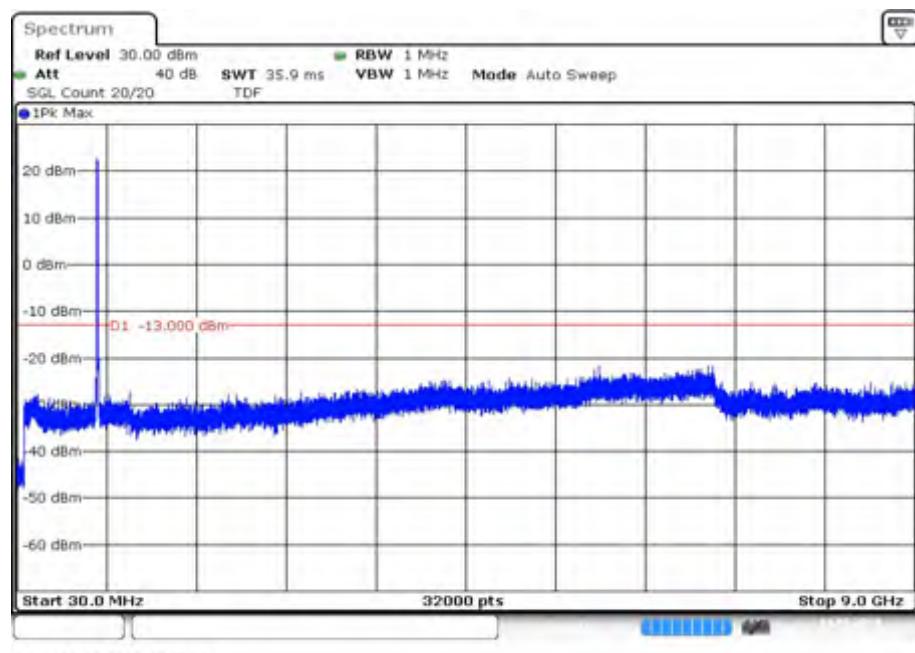


Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
26	844	26990	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

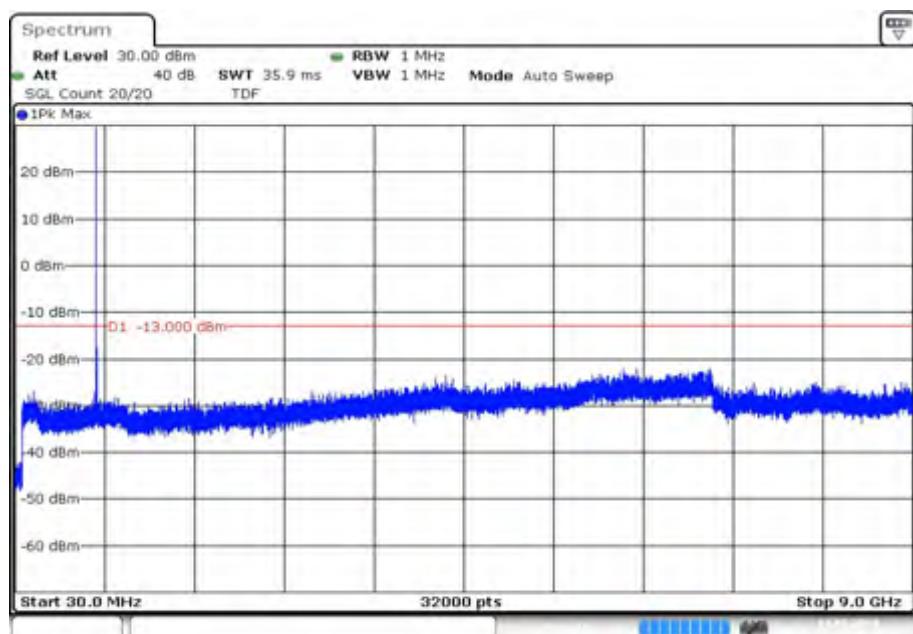


Fig.1

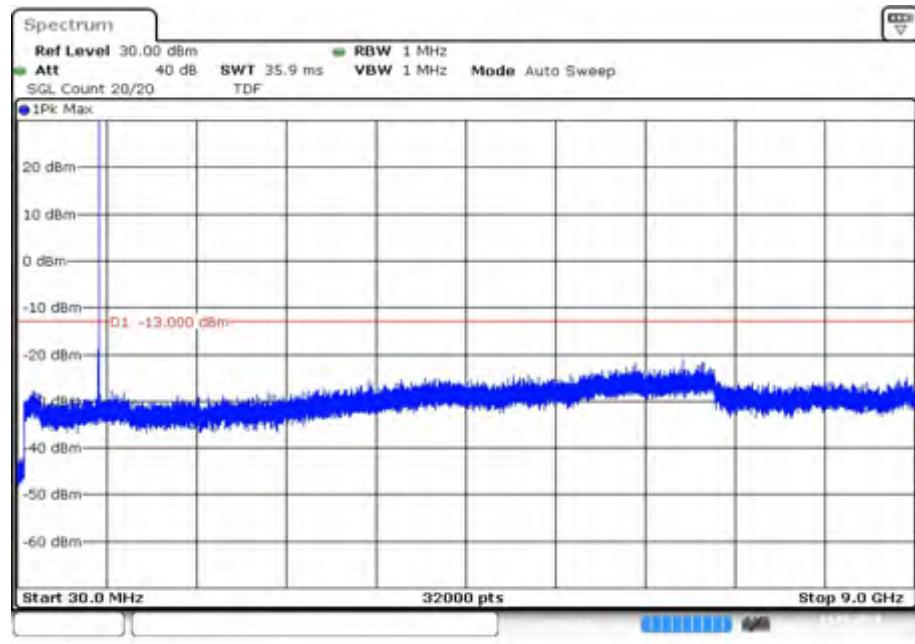


Fig.2

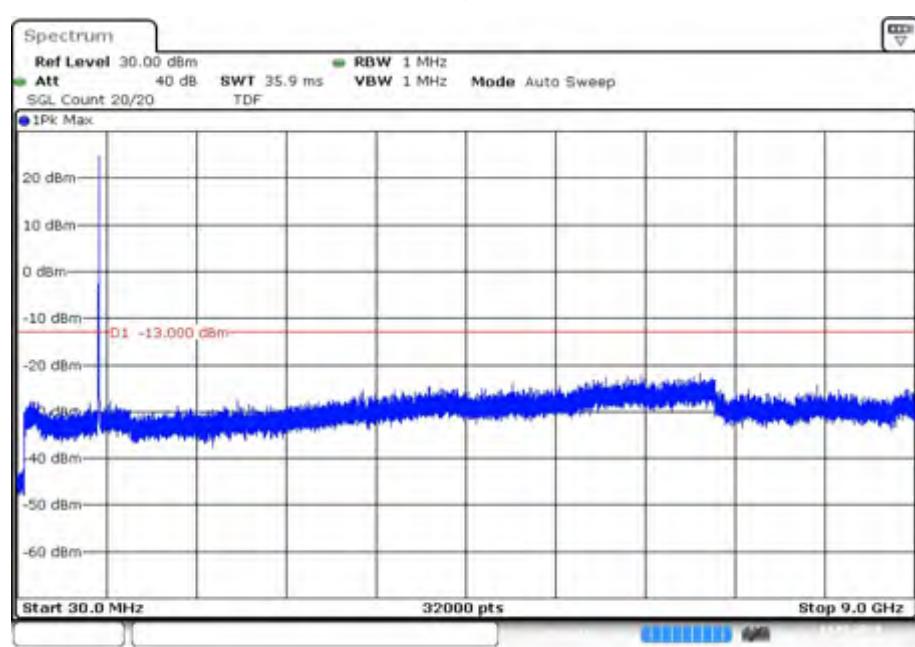
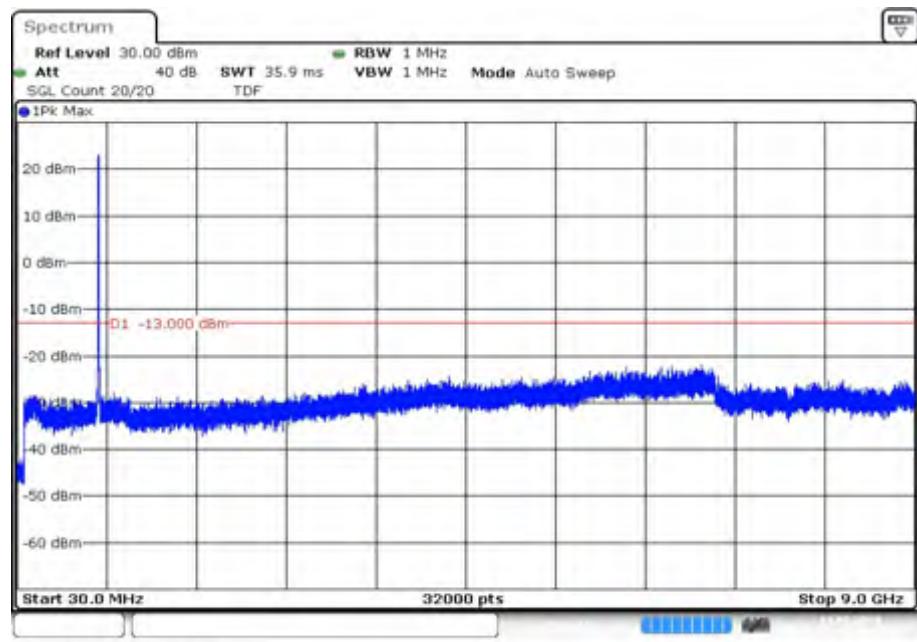
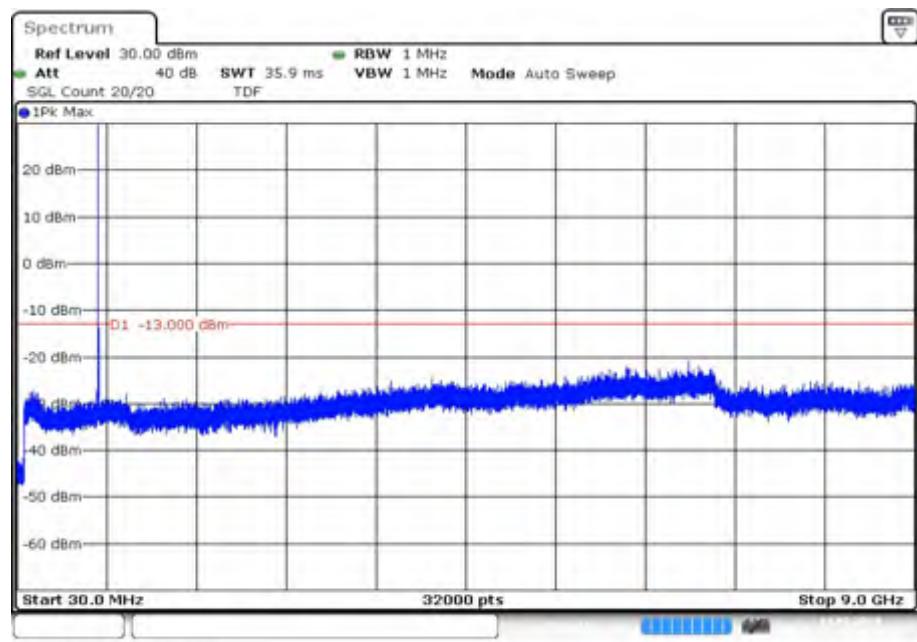


Fig.3



Date: 14.MAR.2018 16:12:45

Fig.4



Date: 14.MAR.2018 16:12:54

Fig.5

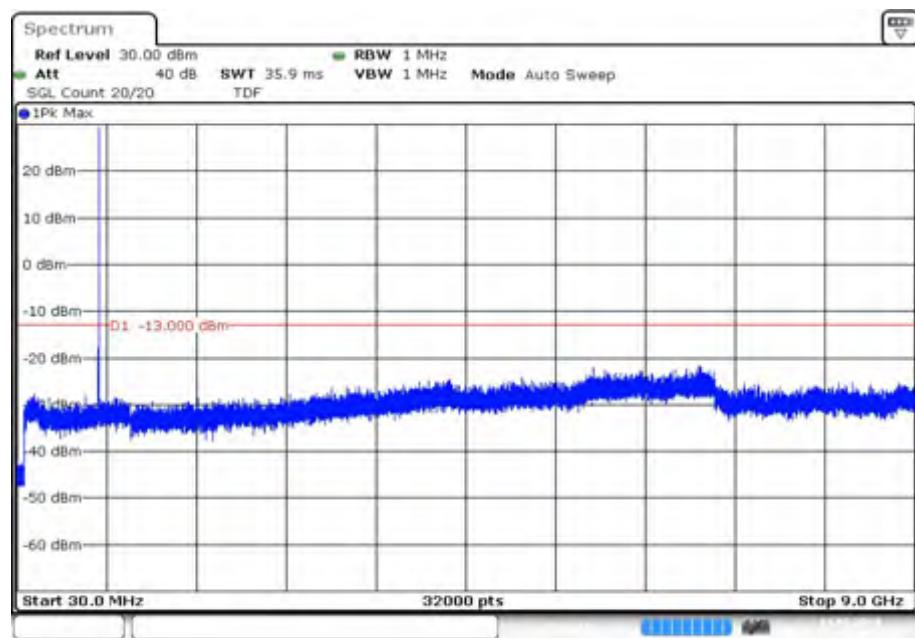


Fig.6

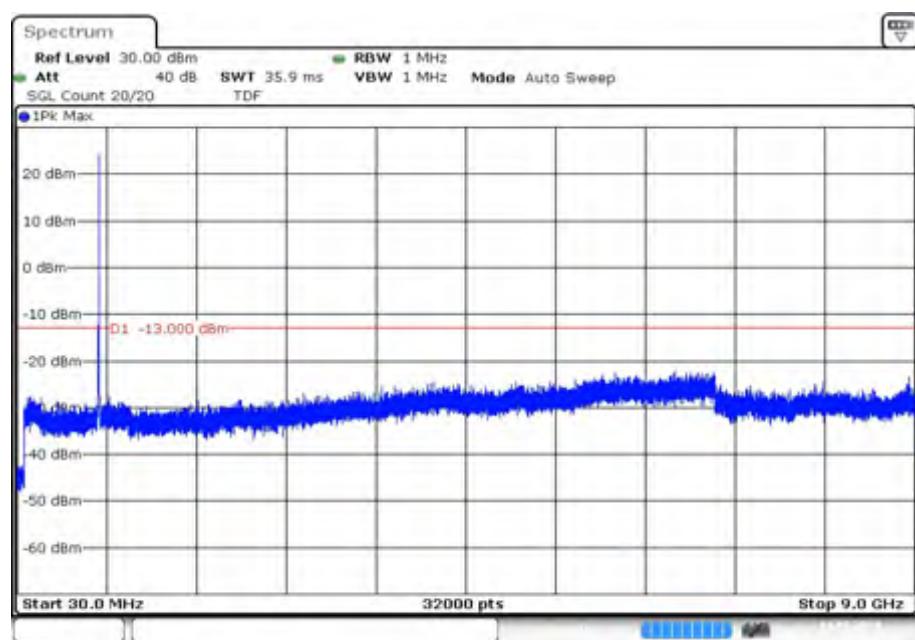


Fig.7

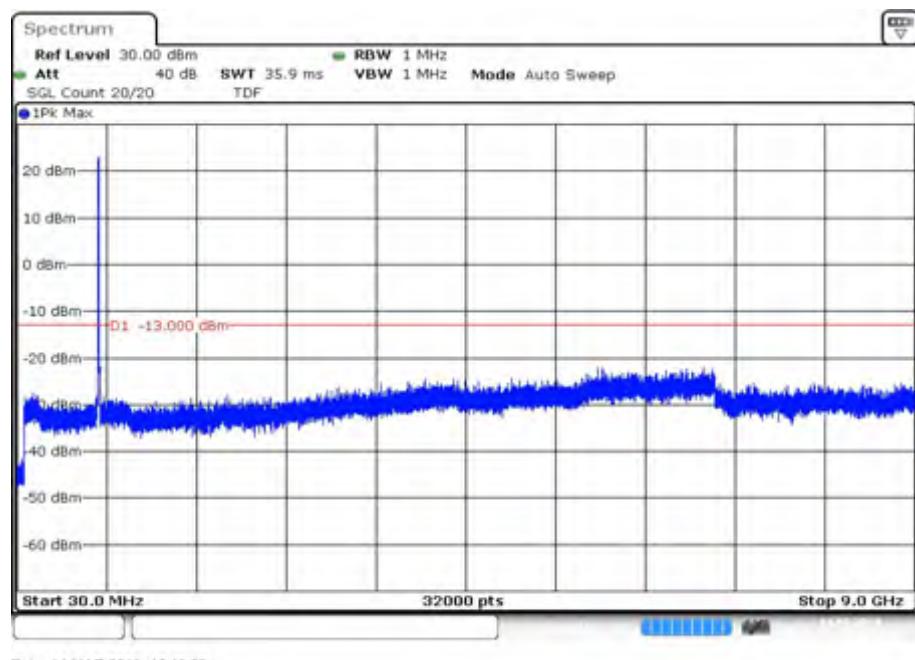


Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
26	821.5	26765	15	1	0	Fig.1	Fig.5
				1	74	Fig.2	Fig.6
				40	18	Fig.3	Fig.7
				75	0	Fig.4	Fig.8

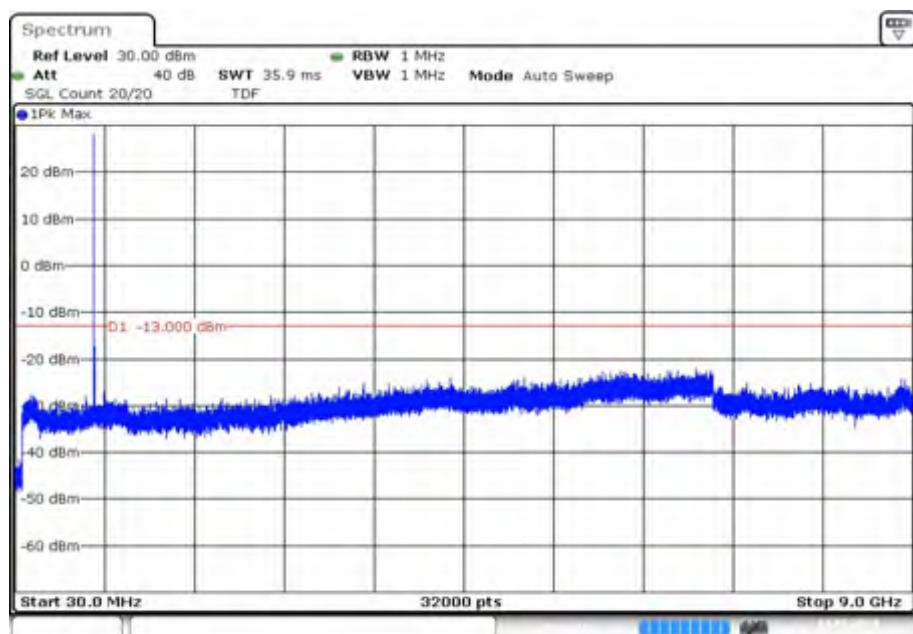
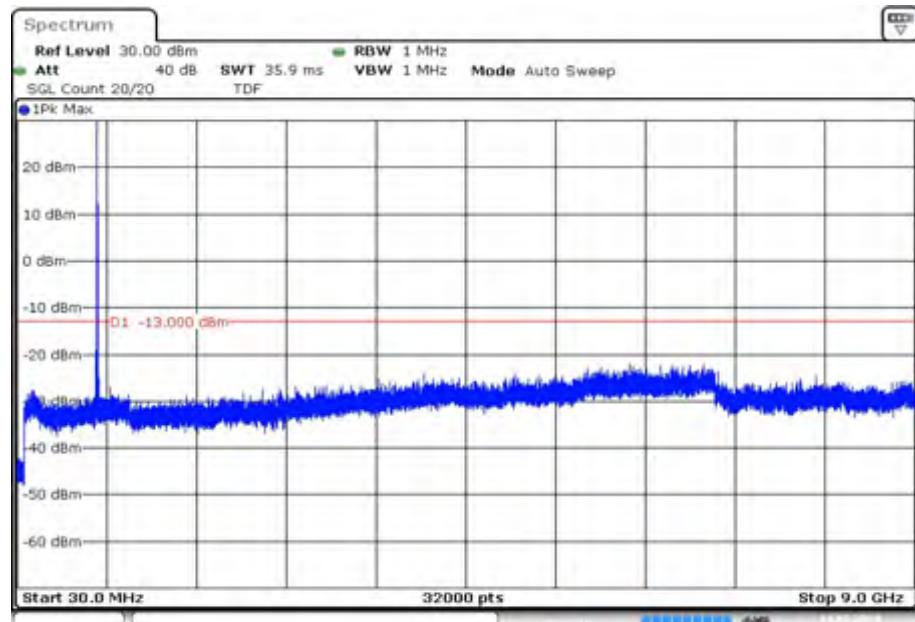
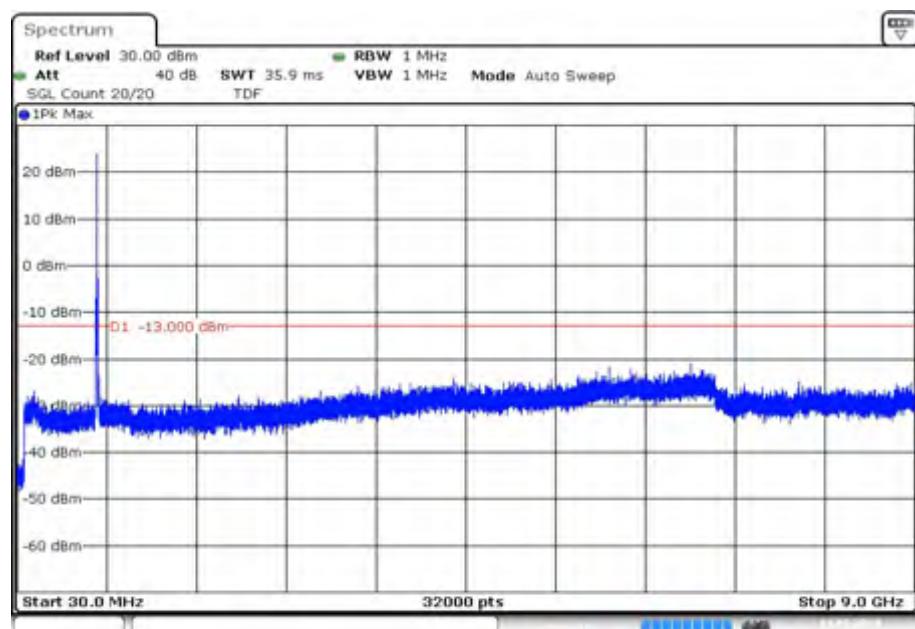


Fig.1



Date: 14 MAR 2018 16:21:50

Fig.2



Date: 14 MAR 2018 16:21:59

Fig.3

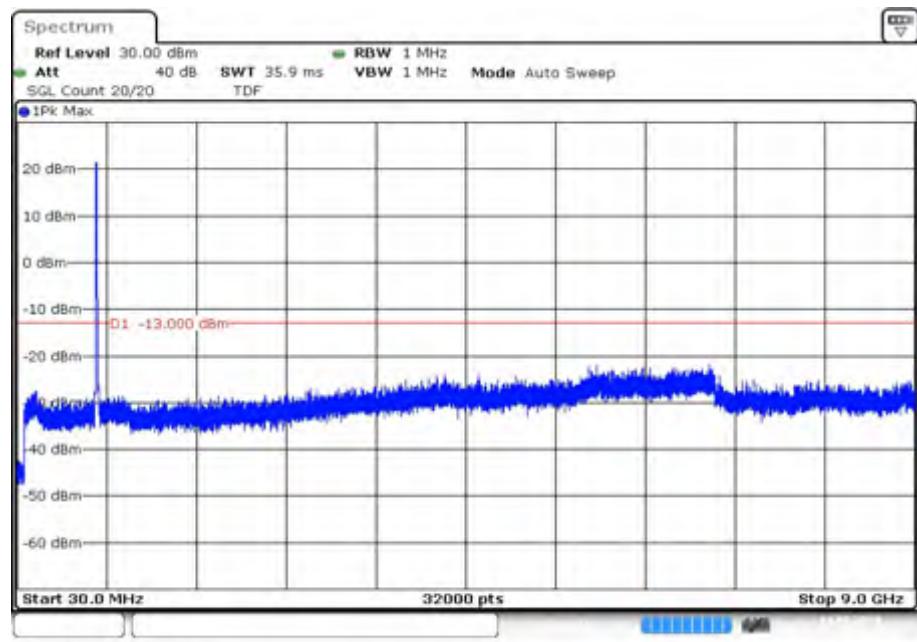


Fig.4

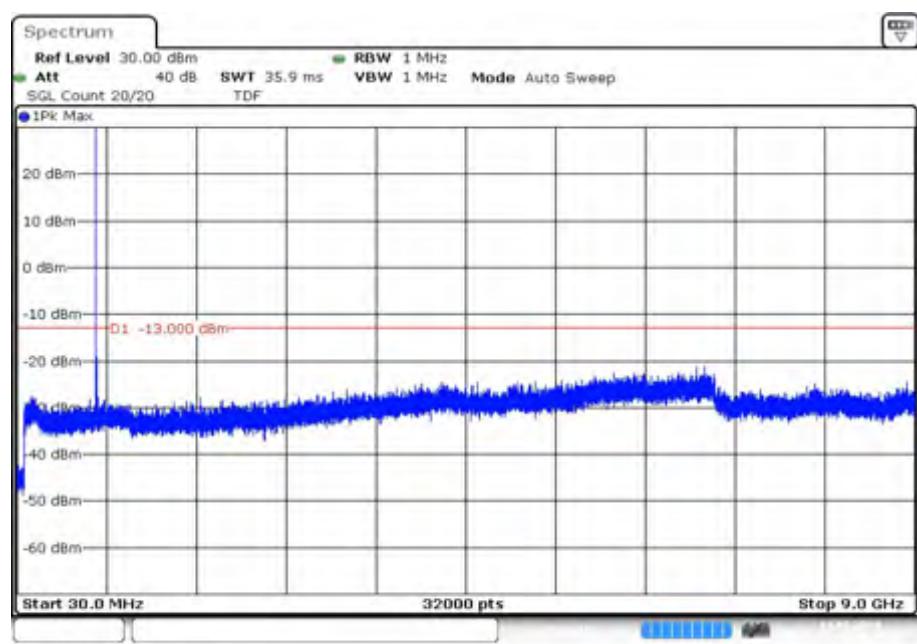


Fig.5

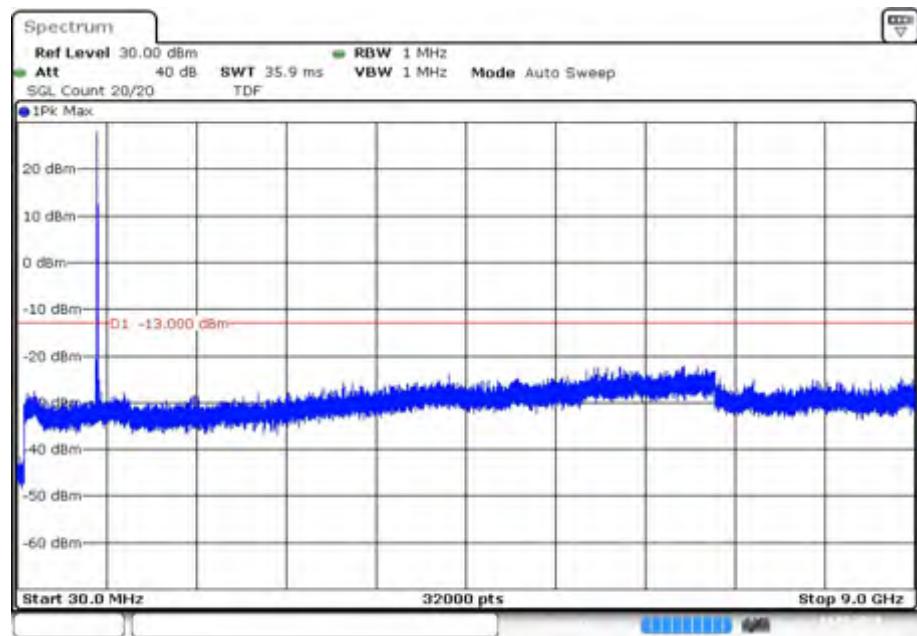


Fig.6

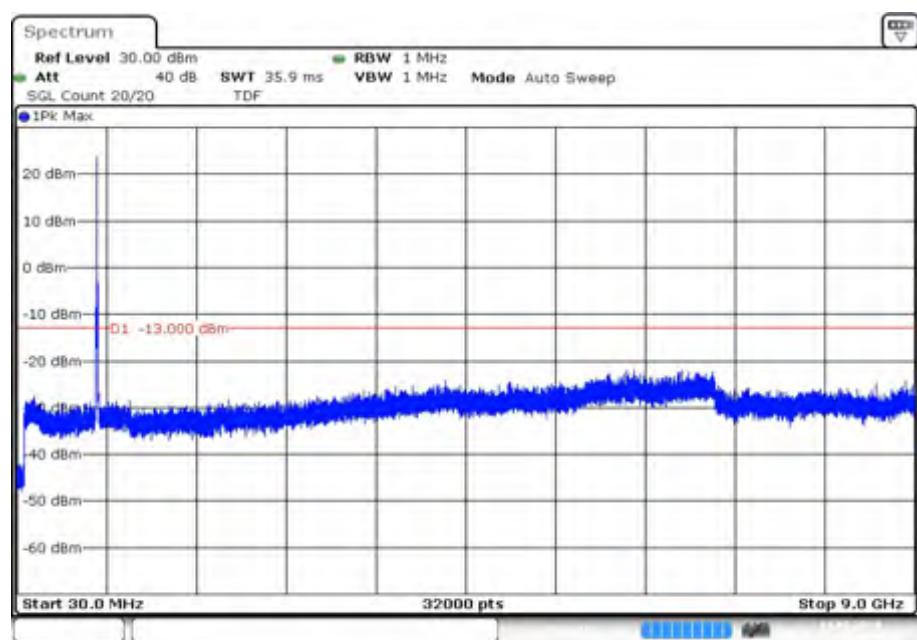


Fig.7

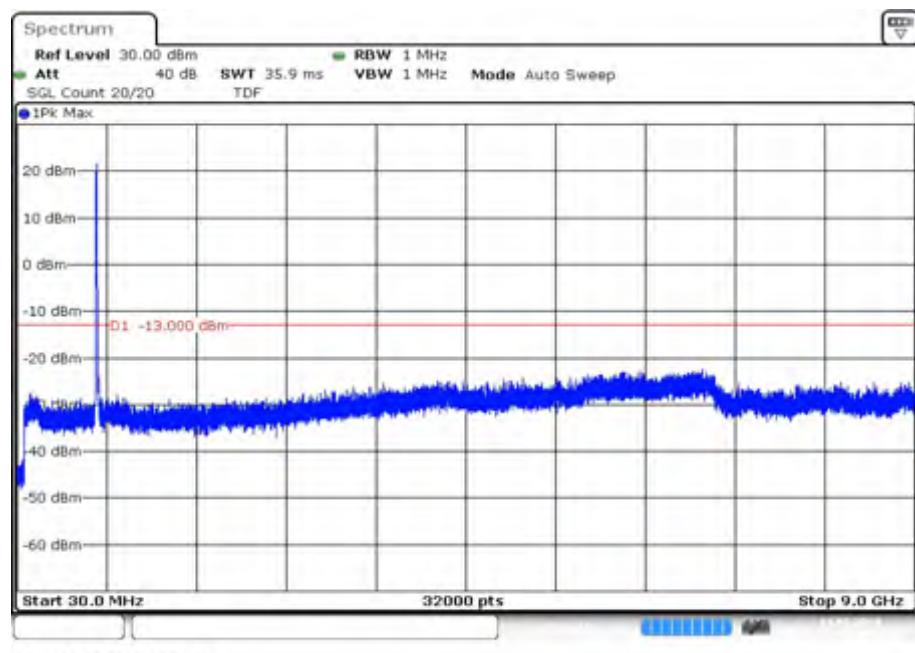


Fig.8

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
26	831.5	26865	15	1	0	Fig.1	Fig.5
				1	74	Fig.2	Fig.6
				40	18	Fig.3	Fig.7
				75	0	Fig.4	Fig.8

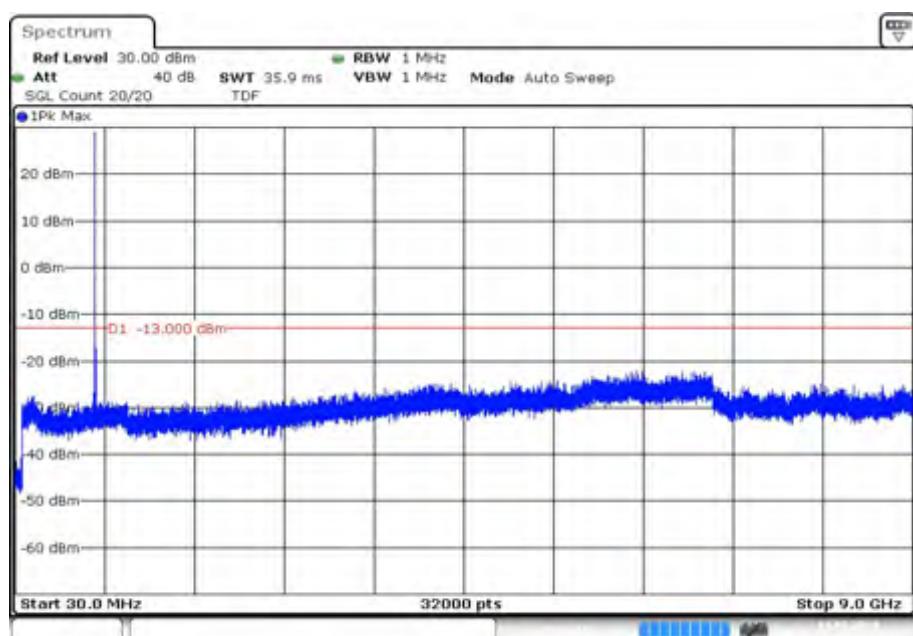


Fig.1

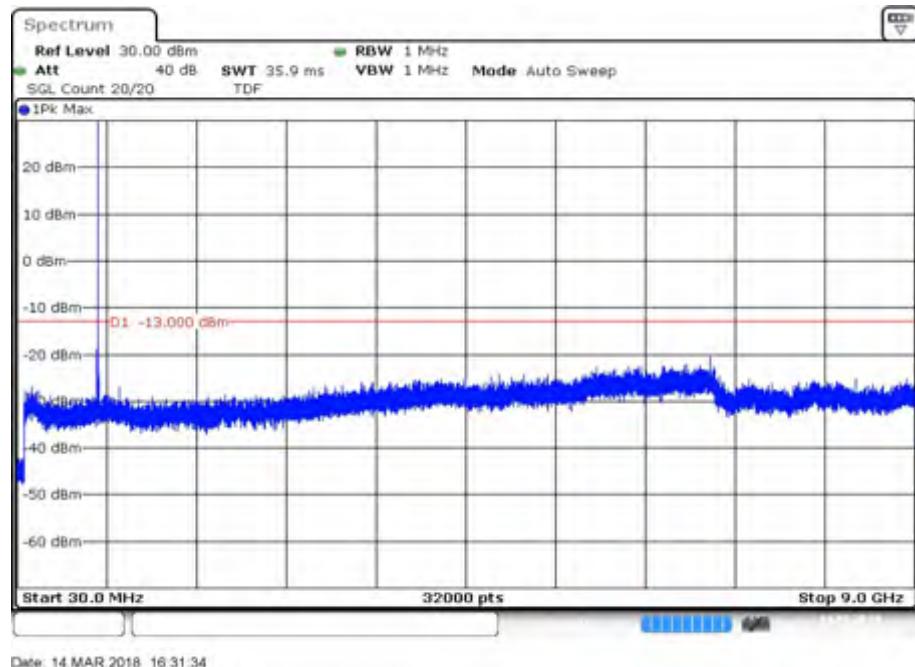


Fig.2

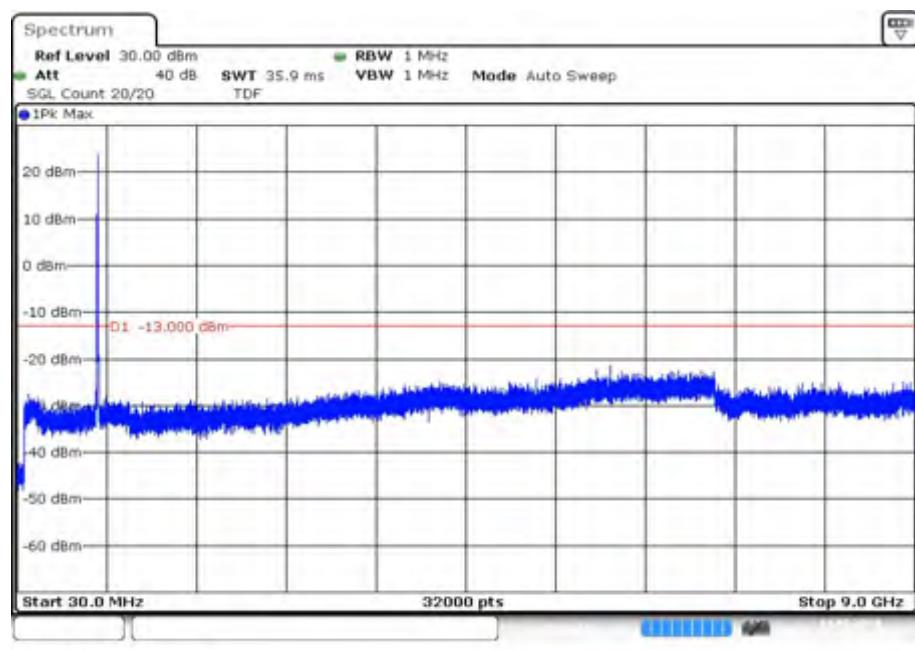


Fig.3

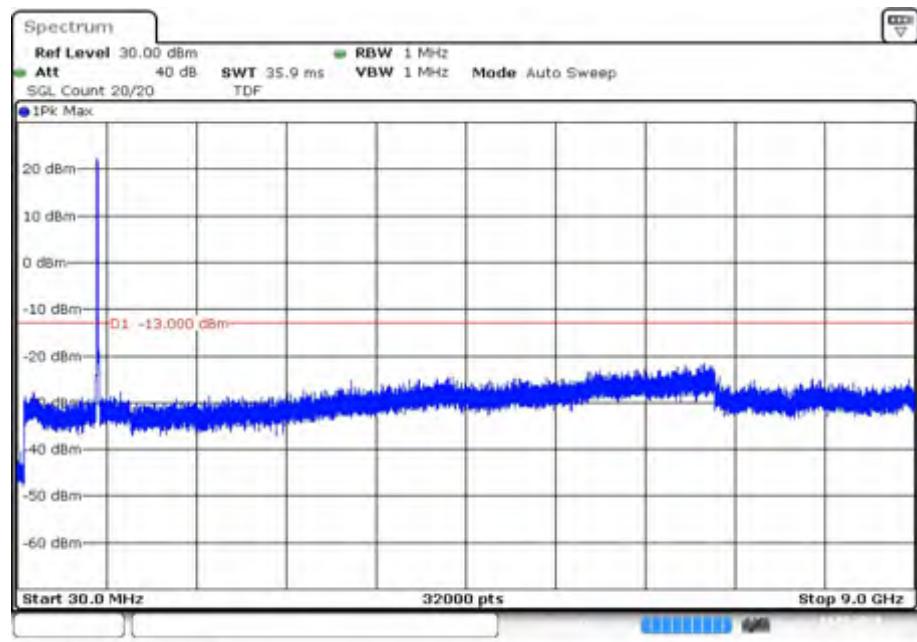


Fig.4

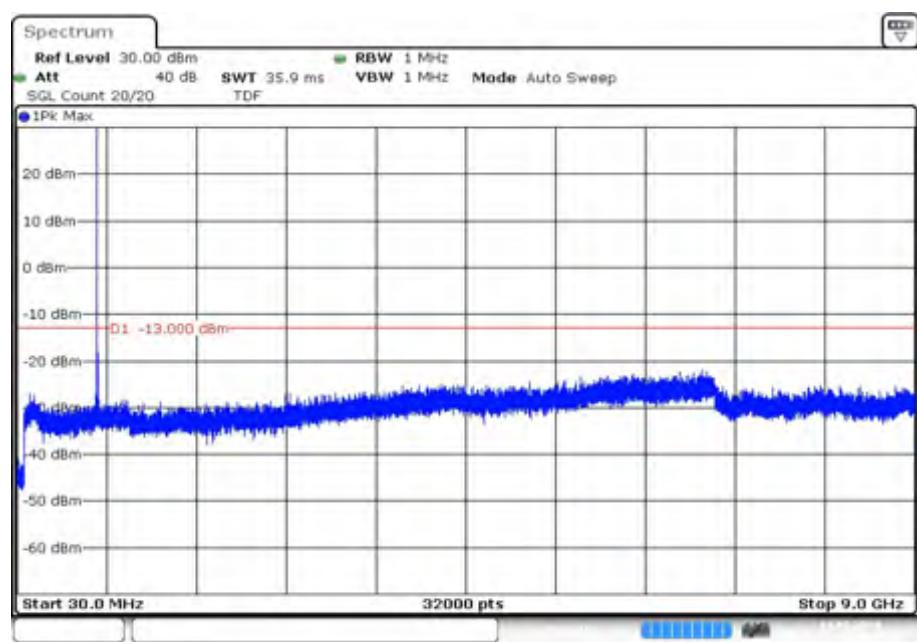
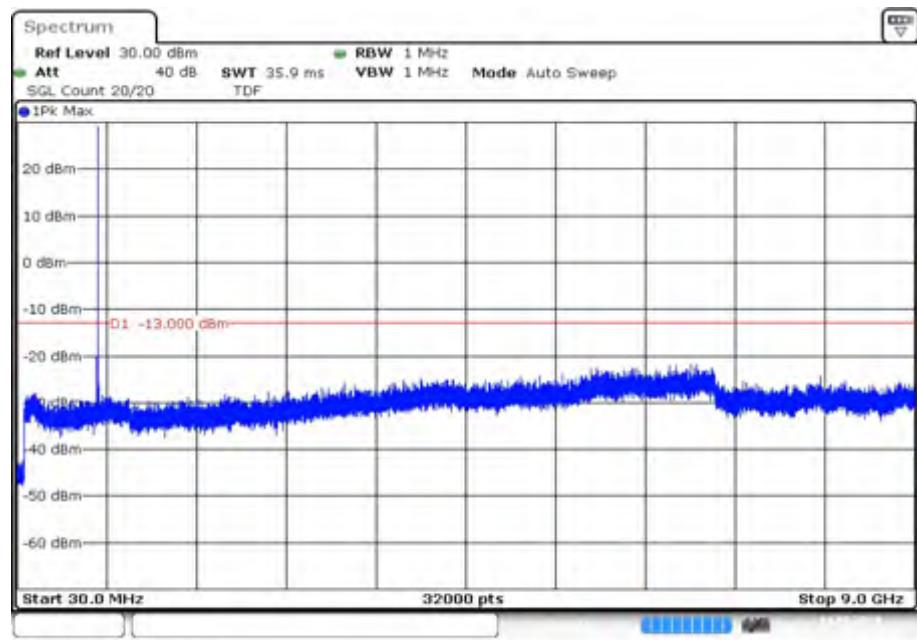
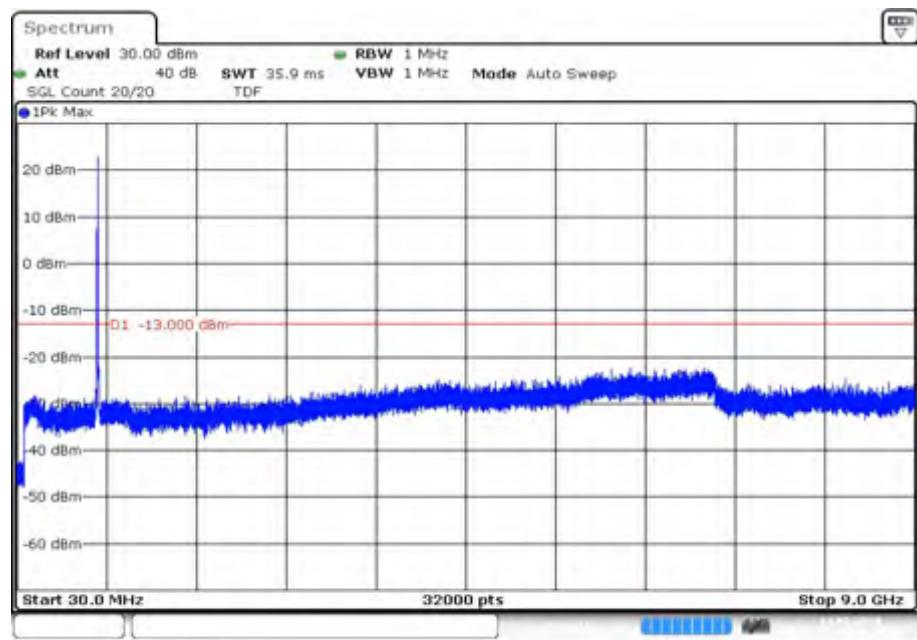


Fig.5



Date: 14.MAR.2018 16:32:09

Fig.6



Date: 14.MAR.2018 16:32:18

Fig.7

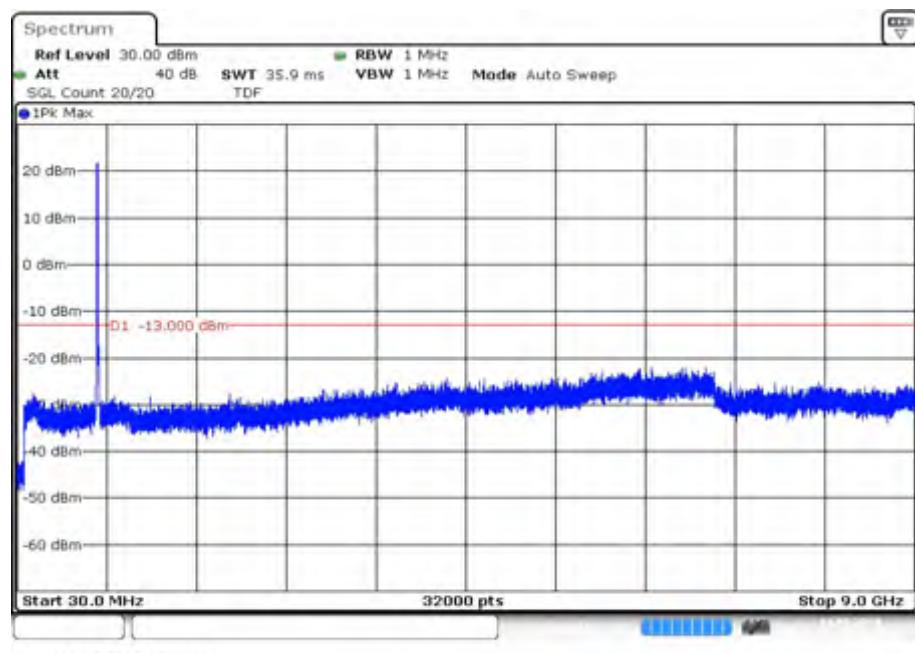


Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Conducted Spurious Plot	
						QPSK	16-QAM
26	841.5	26965	15	1	0	Fig.1	Fig.5
				1	74	Fig.2	Fig.6
				40	18	Fig.3	Fig.7
				75	0	Fig.4	Fig.8

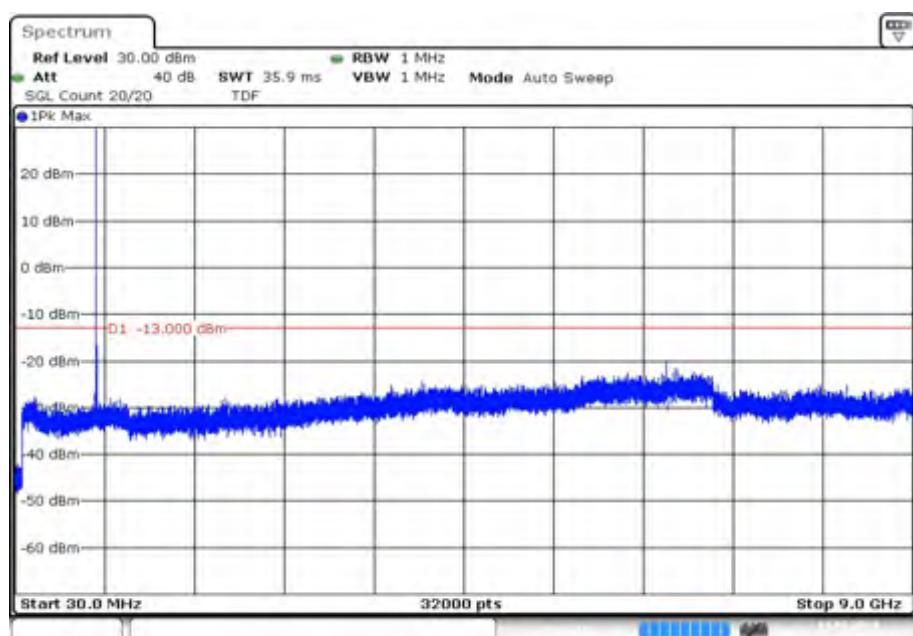
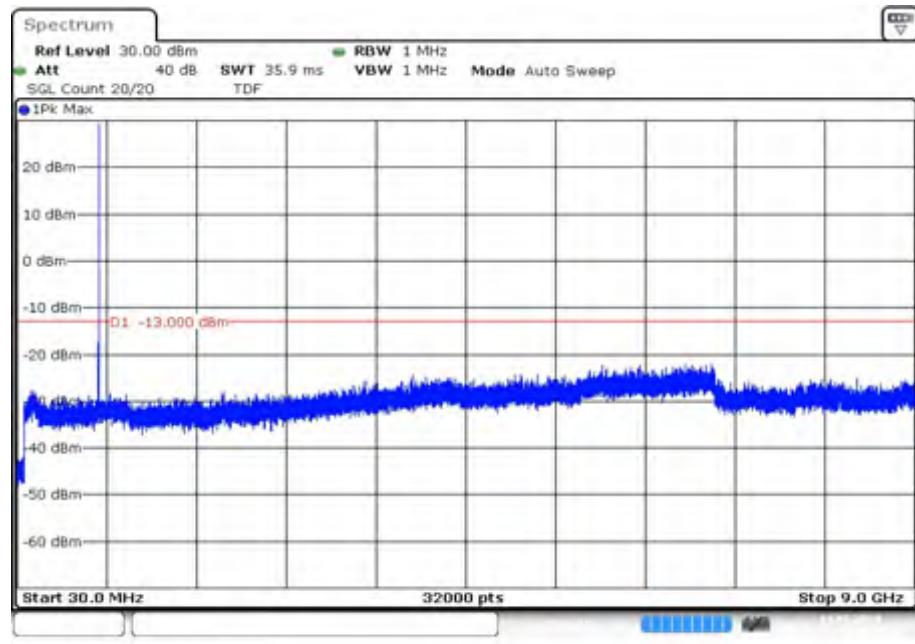
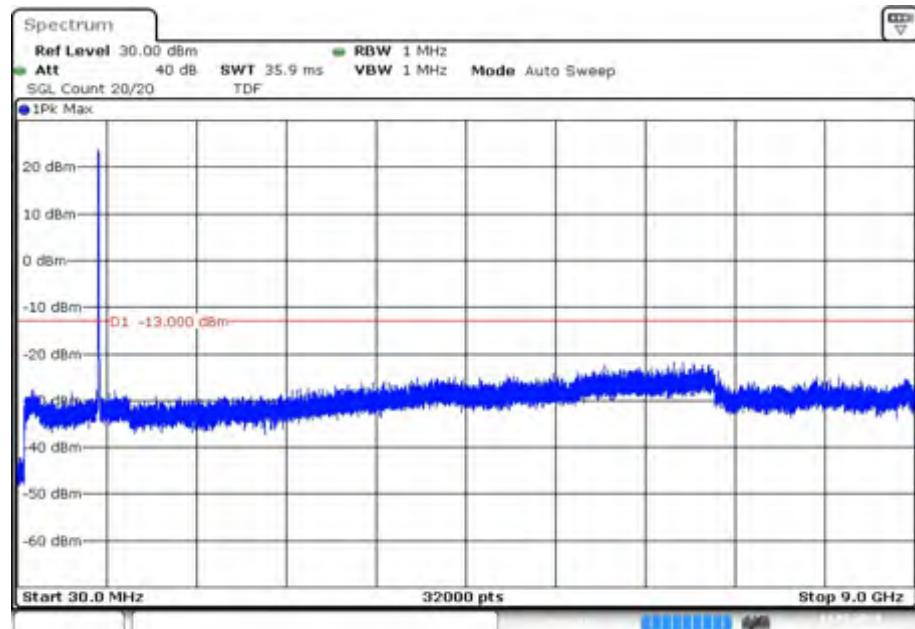


Fig.1



Date: 14 MAR 2018 16:39:31

Fig.2



Date: 14 MAR 2018 16:39:40

Fig.3

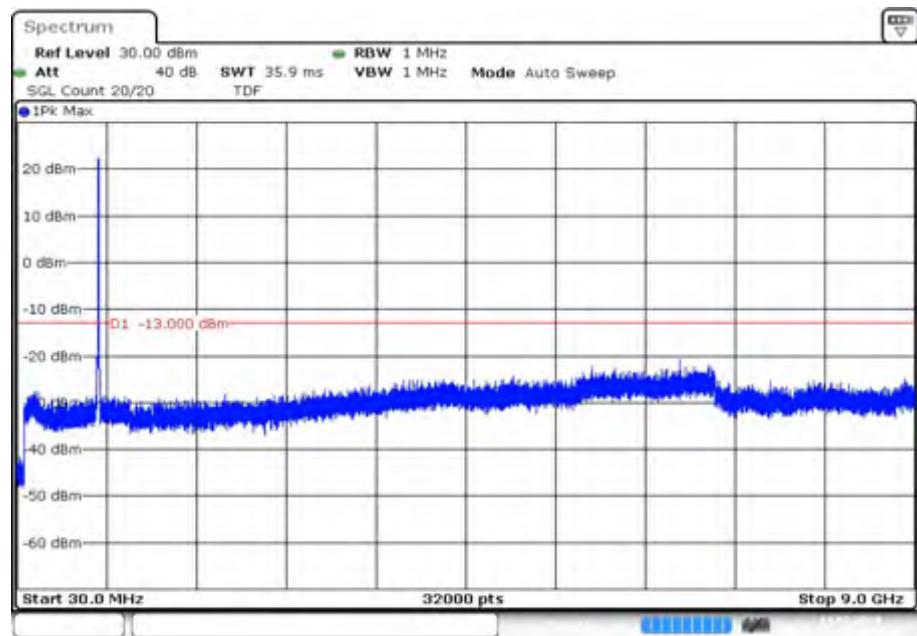


Fig.4

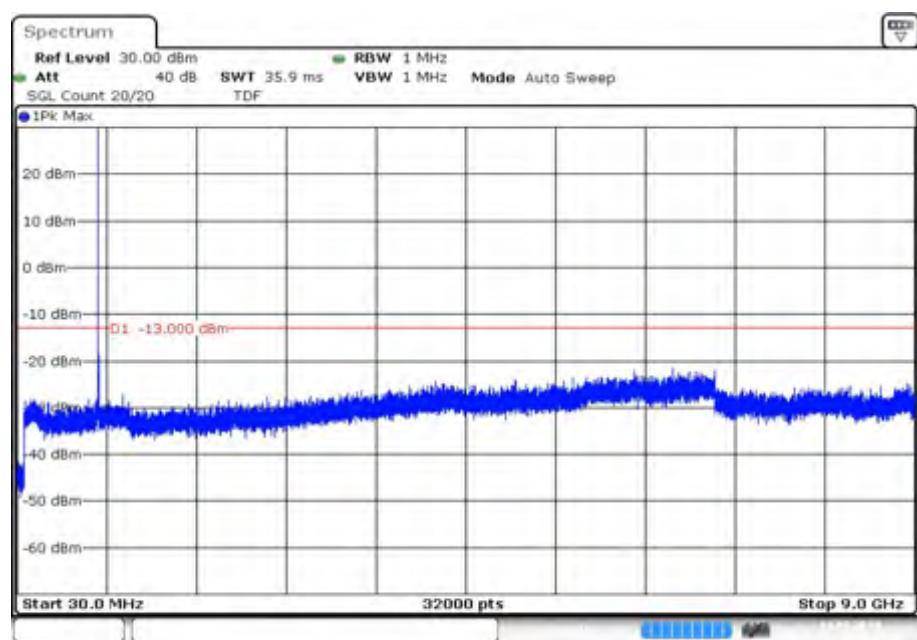
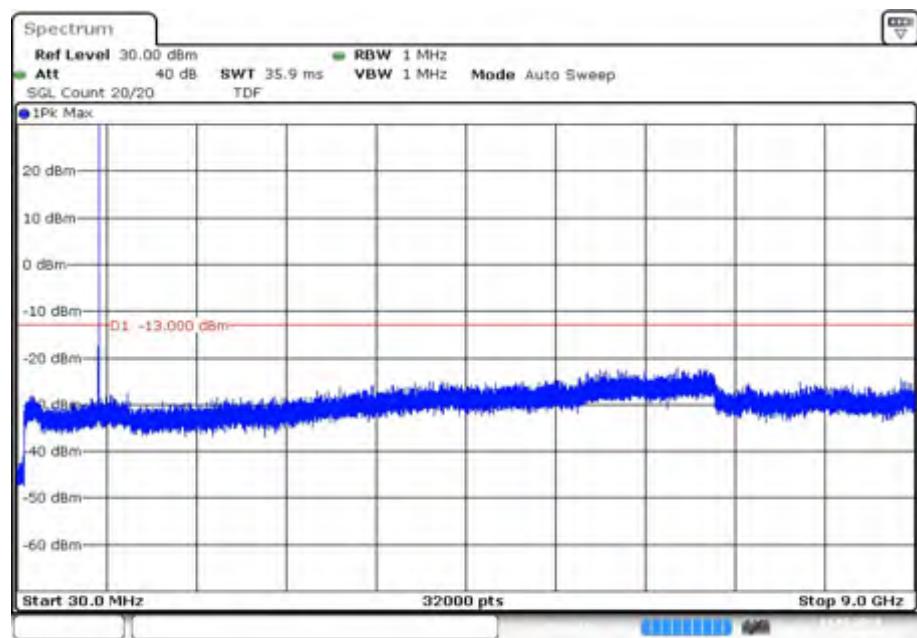
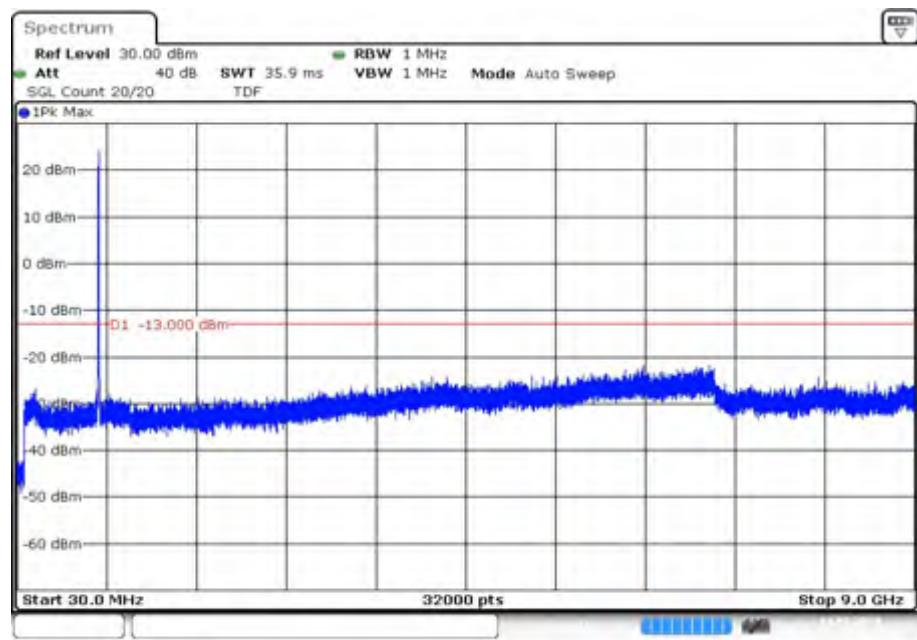


Fig.5



Date: 14.MAR.2018 16:40:06

Fig.6



Date: 14.MAR.2018 16:40:15

Fig.7

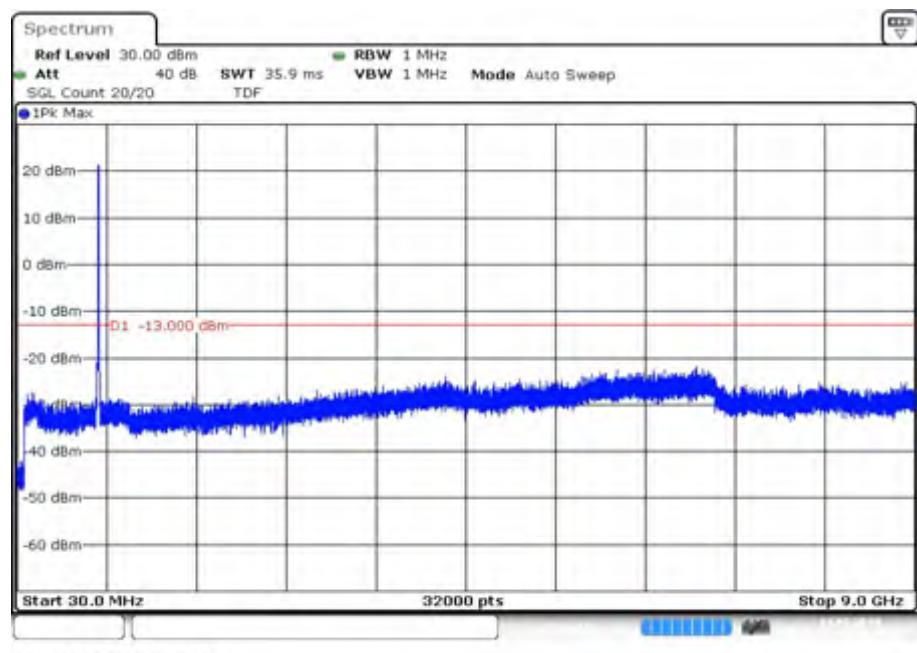


Fig.8

Note: Expanded measurement uncertainty is  $U = 0.488\text{dB}(100\text{KHz}-2\text{GHz})/1.211\text{dB}(2\text{GHz}-26.5\text{GHz})$ ,  $k = 1.96$

## A.8 PEAK-TO-AVERAGE POWER RATIO

### Reference

KDB971168 D01(5.7.1)

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

According to KDB 971168 D01 5.7.1:

- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- b) Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Set the measurement interval to 1 ms
- e) Record the maximum PAPR level associated with a probability of 0.1%

### A.8.1 Measurement limit

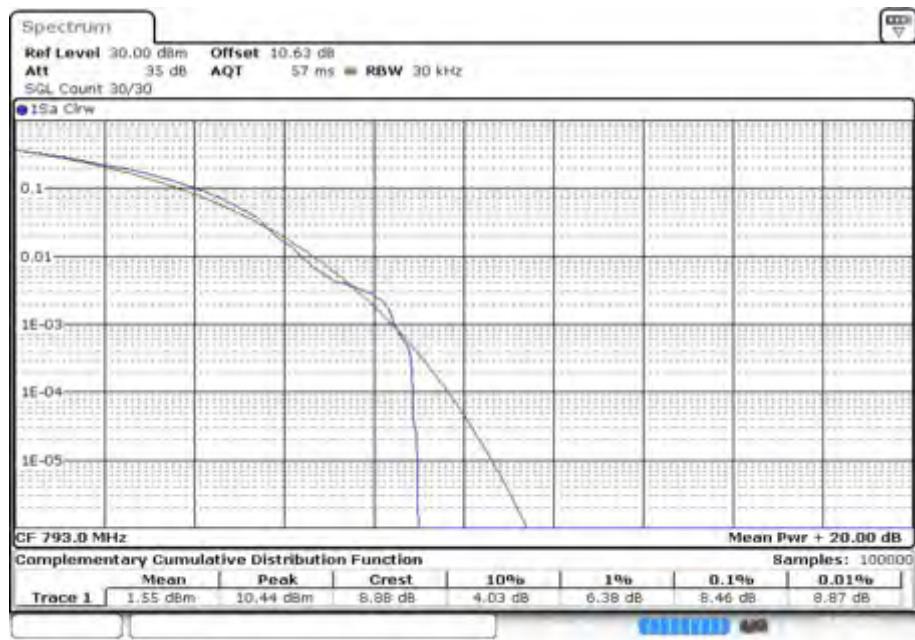
not exceed 13 dB

### A.8.2 Measurement results

#### LTE Band 14

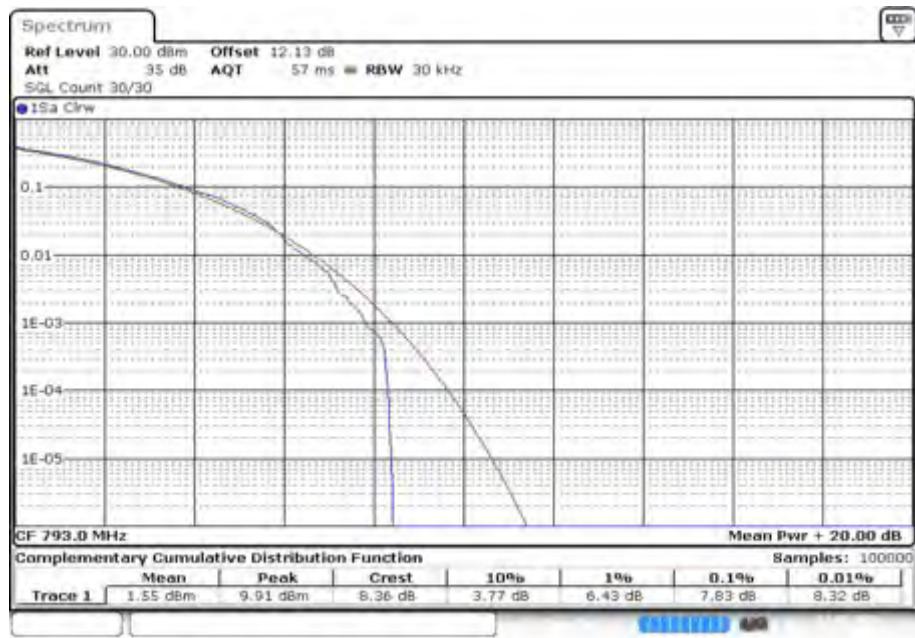


Peak-Average Ratio Plot(5MHz BW,QPSK,Band 14-mid Channel)



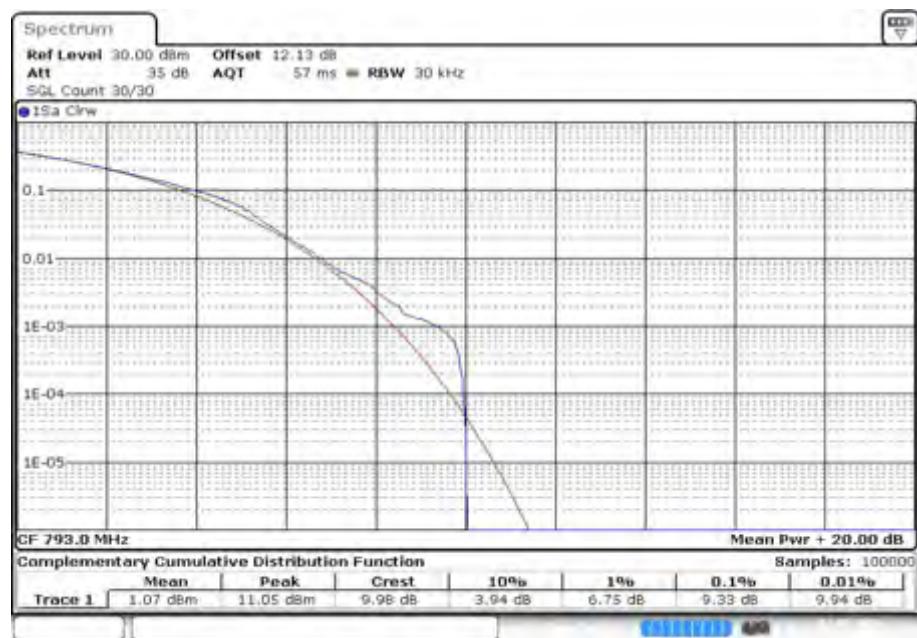
Date: 15 MAR 2018 02:17:06

Peak-Average Ratio Plot(5MHz BW,16QAM,Band 14-mid Channel)



Date: 13 MAR 2018 14:07:32

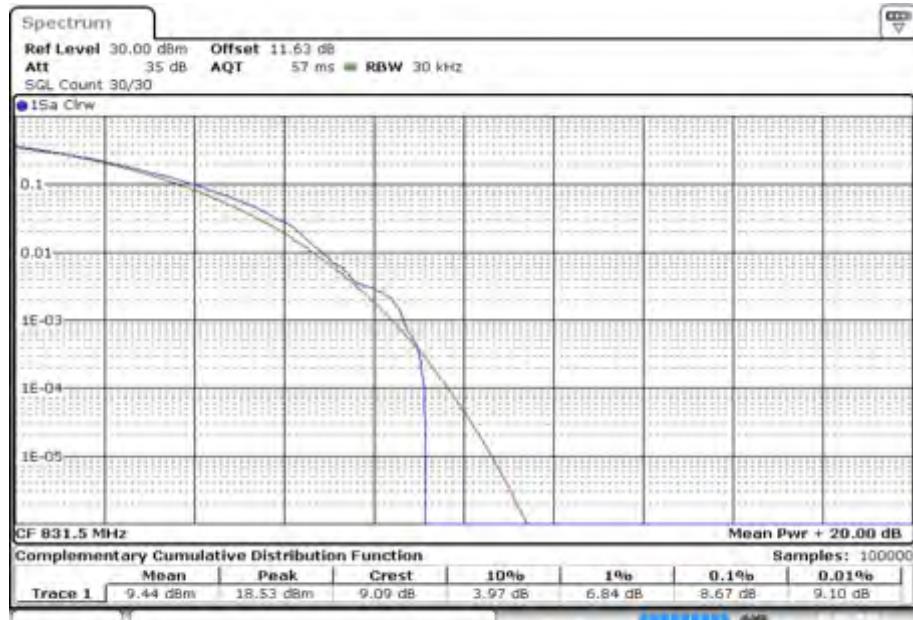
Peak-Average Ratio Plot(10MHz BW,QPSK,Band 14-mid Channel)



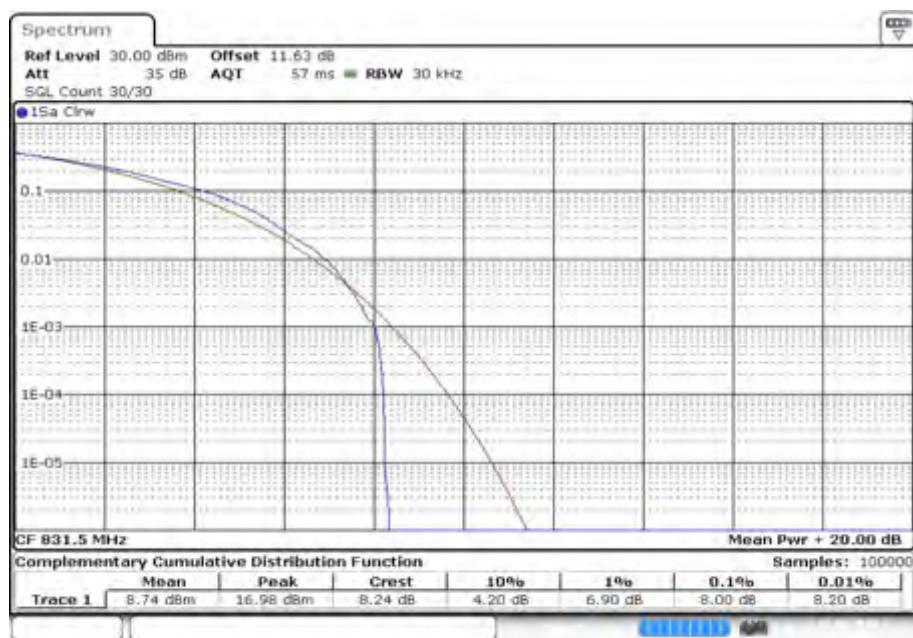
Date: 13 MAR 2018 14:07:43

Peak-Average Ratio Plot(10MHz BW,16QAM,Band 14-mid Channel)

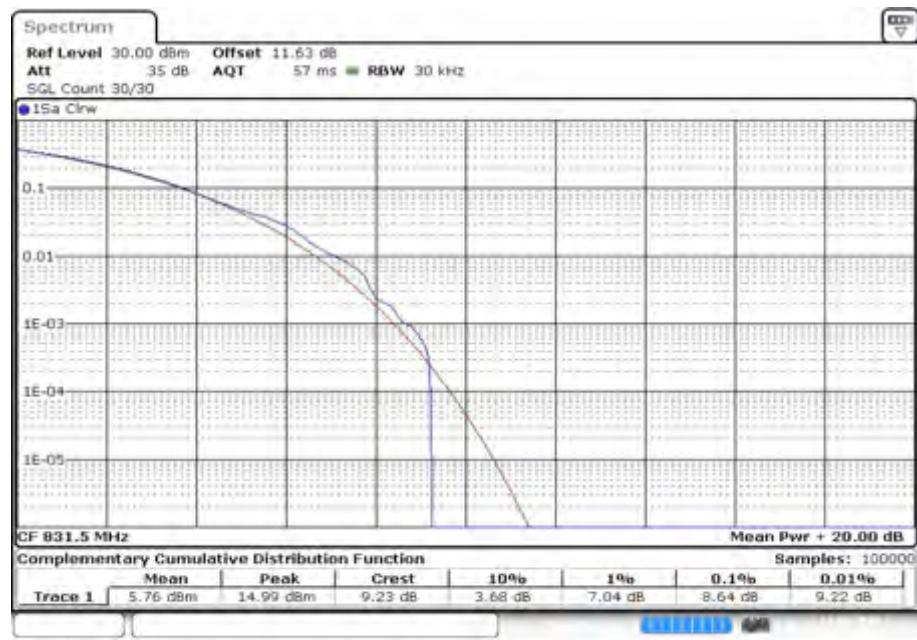
## LTE Band 26



Peak-Average Ratio Plot(1.4MHz BW,QPSK,Band 26-mid Channel)

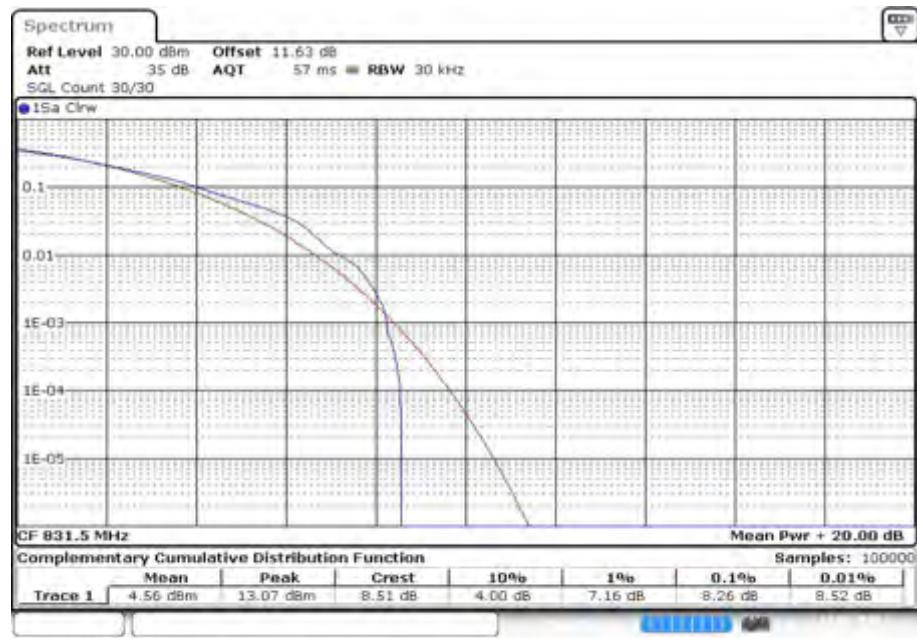


Peak-Average Ratio Plot(1.4MHz BW,16QAM,Band 26-mid Channel)



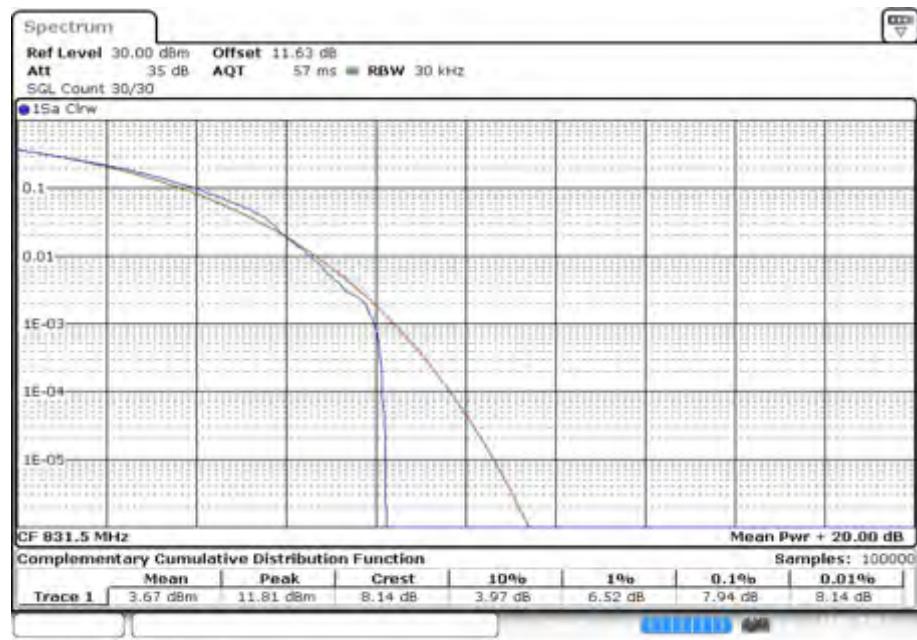
Date: 14.MAR.2018 15:09:58

Peak-Average Ratio Plot(3MHz BW,QPSK,Band 26-mid Channel)



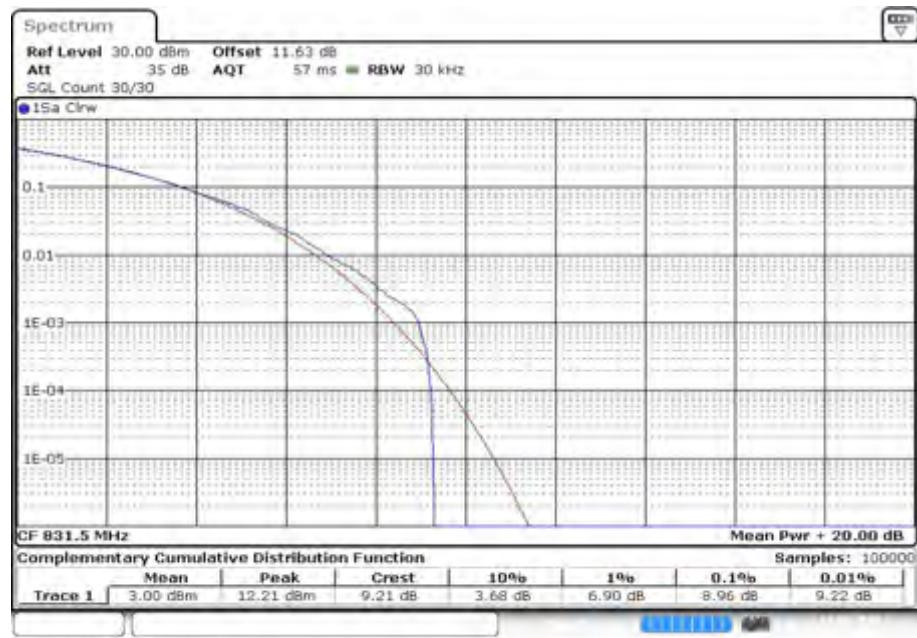
Date: 14.MAR.2018 15:10:09

Peak-Average Ratio Plot(3MHz BW,16QAM,Band 26-mid Channel)



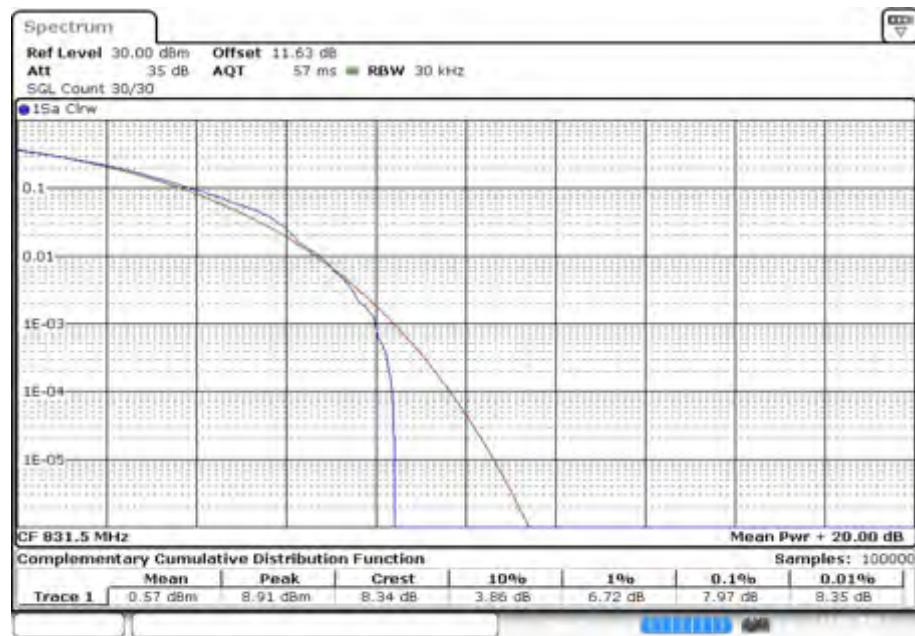
Date: 14.MAR.2018 15:36:54

Peak-Average Ratio Plot(5MHz BW,QPSK,Band 26-mid Channel)



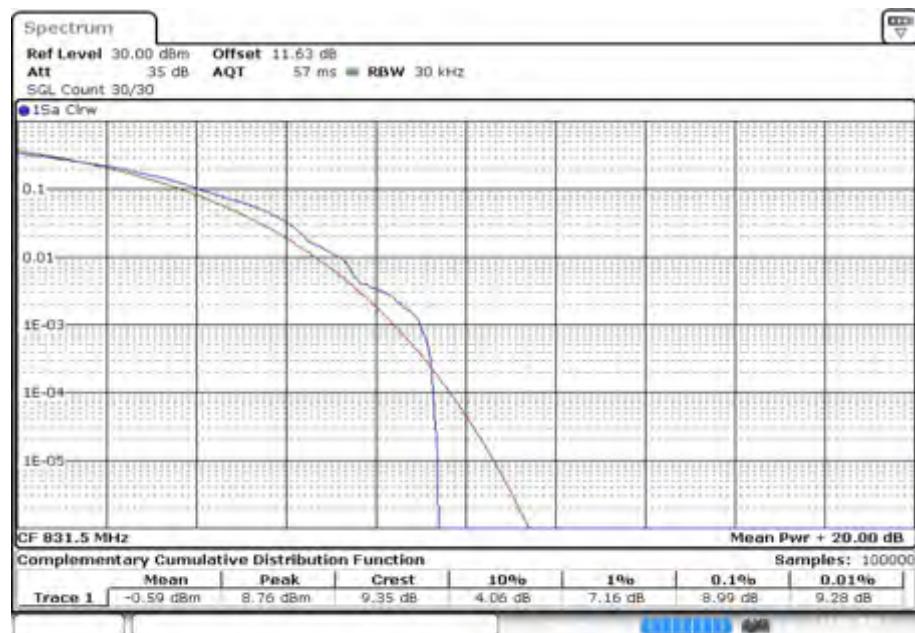
Date: 14.MAR.2018 15:37:06

Peak-Average Ratio Plot(5MHz BW,16QAM,Band 26-mid Channel)



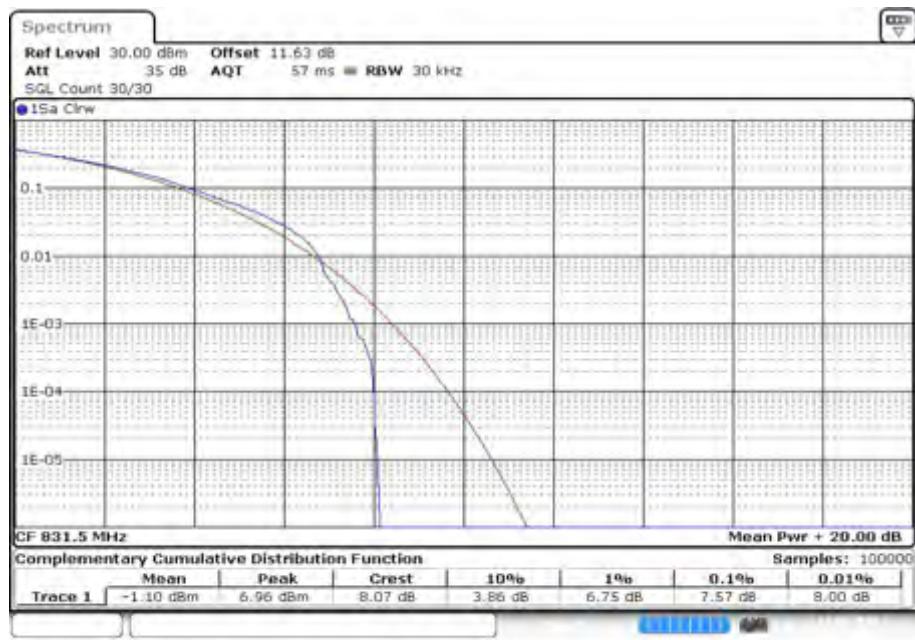
Date: 14.MAR.2018 16:03:58

Peak-Average Ratio Plot(10MHz BW,QPSK,Band 26-mid Channel)



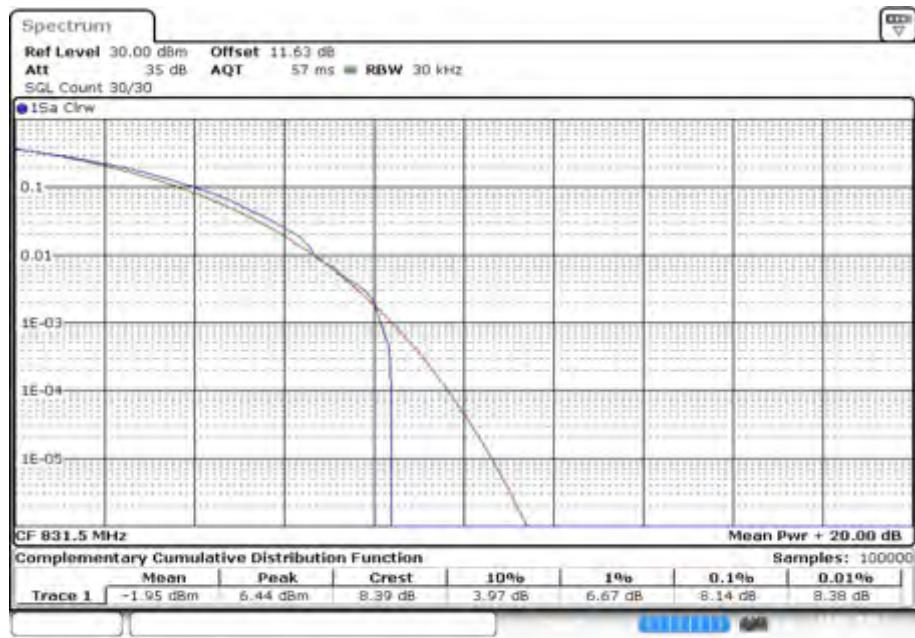
Date: 14.MAR.2018 16:04:07

Peak-Average Ratio Plot(10MHz BW,16QAM,Band 26-mid Channel)



Date: 14.MAR.2018 16:31:00

Peak-Average Ratio Plot(15MHz BW,QPSK,Band 26-mid Channel)



Date: 14.MAR.2018 16:31:11

Peak-Average Ratio Plot(15MHz BW,16QAM,Band 26-mid Channel)

 Note: Expanded measurement uncertainty is  $U = 0.483$ ,  $k = 2$ 

\*\*\*END OF REPORT\*\*\*