

Test Report of FCC CFR 47 Part 15 Subpart C

On Behalf of

SUN CUPID (SHENZHEN) ELECTRONIC LTD.

FCC ID: YQB0SCI1000005
Product Description: Splash ,Splash Trail Edition, Splash Rocket, Rocket
Model No.: ST
Supplementary Model: S1,S2,S3,R1,R2

Prepared for: SUN CUPID (SHENZHEN) ELECTRONIC LTD.
10A, No.3 Bldg,China Academy of Sci & Tech Development, No.1
High-Tech South St., Shenzhen, China

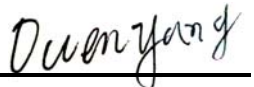
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Report No.: BCT14CR034E-1
Issue Date: March 12, 2014
Test Date: March 3~10 , 2014

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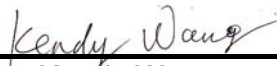

Kendy Wang

TABLE OF CONTENTS

1. GENERAL INFORMATION	4
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	4
1.2 RELATED SUBMITTAL(S) / GRANT (S) AND TEST METHODOLOGY	5
1.3 TEST FACILITY	5
2. SYSTEM TEST CONFIGURATION	6
2.1 EUT CONFIGURATION	6
2.2 EUT EXERCISE	6
2.3 GENERAL TEST PROCEDURES	6
2.4 MEASUREMENT UNCERTAINTY	6
2.5 SUPPORT EQUIPMENTS	6
2.6 TEST EQUIPMENT LIST AND DETAILS	7
3. SUMMARY OF TEST RESULTS	7
4. TEST OF AC POWER LINE CONDUCTED EMISSION	8
4.1 APPLICABLE STANDARD	8
4.2 TEST SETUP DIAGRAM	8
4.3 TEST RESULT	8
5. TEST OF HOPPING CHANNEL BANDWIDTH	11
5.1 APPLICABLE STANDARD	11
5.2 EUT SETUP	11
5.3 TEST EQUIPMENT LIST AND DETAILS	11
5.4 TEST PROCEDURE	11
5.5 TEST RESULT	11
6. TEST OF HOPPING CHANNEL SEPARATION	17
6.1 APPLICABLE STANDARD	17
6.2 EUT SETUP	17
6.3 TEST EQUIPMENT LIST AND DETAILS	17
6.4 TEST PROCEDURE	17
6.5 TEST RESULT	17
7. TEST OF NUMBER OF HOPPING FREQUENCY	24
7.1 APPLICABLE STANDARD	24
7.2 EUT SETUP	24
7.3 TEST EQUIPMENT LIST AND DETAILS	24
7.4 TEST PROCEDURE	24
7.5 TEST RESULT	24
8. TEST OF DWELL TIME OF EACH FREQUENCY	27
8.1 APPLICABLE STANDARD	27
8.2 EUT SETUP	27
8.3 TEST EQUIPMENT LIST AND DETAILS	27
8.4 TEST PROCEDURE	27
8.5 TEST RESULT	27
9. TEST OF MAXIMUM PEAK OUTPUT POWER	44
9.1 APPLICABLE STANDARD	44
9.2 EUT SETUP	44
9.3 TEST EQUIPMENT LIST AND DETAILS	44
9.4 TEST PROCEDURE	44
9.5 TEST RESULT	44
10. TEST OF BAND EDGES EMISSION	50
10.1 APPLICABLE STANDARD	50
10.2 EUT SETUP	50
10.3 TEST EQUIPMENT LIST AND DETAILS	50
10.4 TEST PROCEDURE	50
10.5 TEST RESULT	51

11. TEST OF SPURIOUS RADIATED EMISSION57

11.1 APPLICABLE STANDARD57

11.2 EUT SETUP57

11.3 TEST EQUIPMENT LIST AND DETAILS.....58

11.4 TEST PROCEDURE58

11.5 TEST RESULT59

12. ANTENNA REQUIREMENT74

12.1 STANDARD APPLICABLE74

12.2 ANTENNA CONNECTED CONSTRUCTION74

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant:	SUN CUPID (SHENZHEN) ELECTRONIC LTD.
Address of applicant:	10A, No.3 Bldg,China Academy of Sci & Tech Development, No.1 High-Tech South St., Shenzhen, China
Manufacturer :	SUN CUPID (SHENZHEN) ELECTRONIC LTD.
Address of manufacturer:	10A, No.3 Bldg,China Academy of Sci & Tech Development, No.1 High-Tech South St., Shenzhen, China

General Description of E.U.T

Items	Description
EUT Description:	Splash ,Splash Trail Edition, Splash Rocket, Rocket
Model No.:	ST
Trade Name:	NUU
Supplementary Model:	S1,S2,S3,R1,R2
BT Module	CSR 4.0
Frequency Band:	2402~2480MHz
Number of Channels:	79
Type of Modulation:	GFSK, Pi/4 DQPSK, 8-DPSK
Antenna Gain	0 dBi
Antenna Type:	Integral Antenna
Rated Voltage:	Battery 1: 3.7V,1200mAh, Battery 2: 3.7V,1700mAh, DC 5V from Adapter.

Remark: * The test data gathered are from the production sample provided by the manufacturer.
Supplementary models have the same circuit, but with different appearance

1.2 Related Submittal(s) / Grant (s) and Test Methodology

The tests were performed based on the Electromagnetic Interference (EMI) tests performed on the EUT. Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 - 2003 Radiated testing was performed at an antenna to EUT distance 3 meters.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.207, 15.209 and 15.247 rules. Test was carried out according to the above mentioned FCC rules and the FCC publication notice DA 00-705: Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems

1.3 Test Facility

All measurement required was performed at laboratory of Shenzhen CTL Testing Technology Co., Ltd. at Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road, Nanshan District, Shenzhen, China 518055.

The test facility is recognized, certified, or accredited by the following organizations:

FCC – Registration No.: 970318

Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 970318, December, 2013.

2. SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The calibrated antennas used to sample the radiated field strength are mounted on a non-conductive, motorized antenna mast 3 or 10 meters from the leading edge of the turntable.

2.3 General Test Procedures

Conducted Emissions: The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 7.1 of ANSI C63.4-2003 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak detector mode.

Radiated Emissions: The EUT is placed on a turntable, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4-2003.

2.4 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Power Line Conducted Emission	+/- 2.3 dB
Radiated Emission	+/- 3.4 dB

Uncertainty figures are valid to a confidence level of 95%.

2.5 Support Equipments

The calibrated antennas used to sample the radiated field strength are mounted on a non-conductive, motorized antenna mast 3 or 10 meters from the leading edge of the turntable.

Support equipments or special accessories in test configuration:

AUX Description:	Manufacturer	Model No.	Certificate	CABLE
Adapter	Nikon	EH-69P	FCC,CE	N/A

2.6 Test Equipment List and Details

Test equipments list of Shenzhen CTL Testing Technology Co., Ltd.

No.	Instrument no.	Equipment	Manufacturer	Model No.	S/N	Last Calculator	Due Calculator
1	BCT-EMC001	EMI Test Receiver	R&S	ESCI	100687	2013-4-25	2014-4-24
2	BCT-EMC002	EMI Test Receiver	R&S	ESPI	100097	2013-11-1	2014-10-31
3	BCT-EMC003	Amplifier	HP	8447D	1937A02492	2013-4-25	2014-4-24
4	BCT-EMC018	TRILOG Broadband Test-Antenna	SCHWARZBECK	VULB9163	9163-324	2013-4-25	2014-4-24
5	BCT-EMC021	Triple-Loop Antenna	EVERFINE	LLA-2	711002	2013-11-1	2014-10-31
6	BCT-EMC026	RF POWER AMPLIFIER	FRANKONIA	FLL-75	1020A1109	2013-4-25	2014-4-24
7	BCT-EMC029	6dB Attenuator	FRANKONIA	N/A	1001698	2013-4-25	2014-4-24
8	BCT-EMC032	10dB attenuator	ELECTRO-METRICS	EM-7600	836	2013-4-25	2014-4-24
9	BCT-EMC036	Spectrum Analyzer	R&S	FSP	100397	2013-11-1	2014-10-31
10	BCT-EMC037	Broadband preamplifier	SCHWARZBECK	BBV9718	9718-182	2013-4-25	2014-4-24
11	BCT-EMC039	Horn Antenna	SCHWARZBECK	BBHA 9120D	0437	2013-4-25	2014-4-24
12	BCT-EMC038	Horn Antenna	SCHWARZBECK	BBHA9170	0483	2013-4-5	2014-4-4

3. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.207	AC Power Line Conducted Emission	Pass
FCC §15.247(a)(1)	Hopping Channel Bandwidth	Pass
FCC §15.247(a)(1)	Hopping Channel Separation	Pass
FCC §15.247(a)(1)	Number of Hopping Frequency Used	Pass
FCC §15.247(a)(1)(iii)	Dwell Time of Each Frequency	Pass
FCC §15.247(b)(1)	Maximum Peak Output Power	Pass
FCC §15.247(d)	Band Edges Emission	Pass
FCC §15.247(d)	Spurious Radiated Emission	Pass
FCC §15.203/15.247(b)/(c)	Antenna Requirement	Pass

4. TEST OF AC POWER LINE CONDUCTED EMISSION

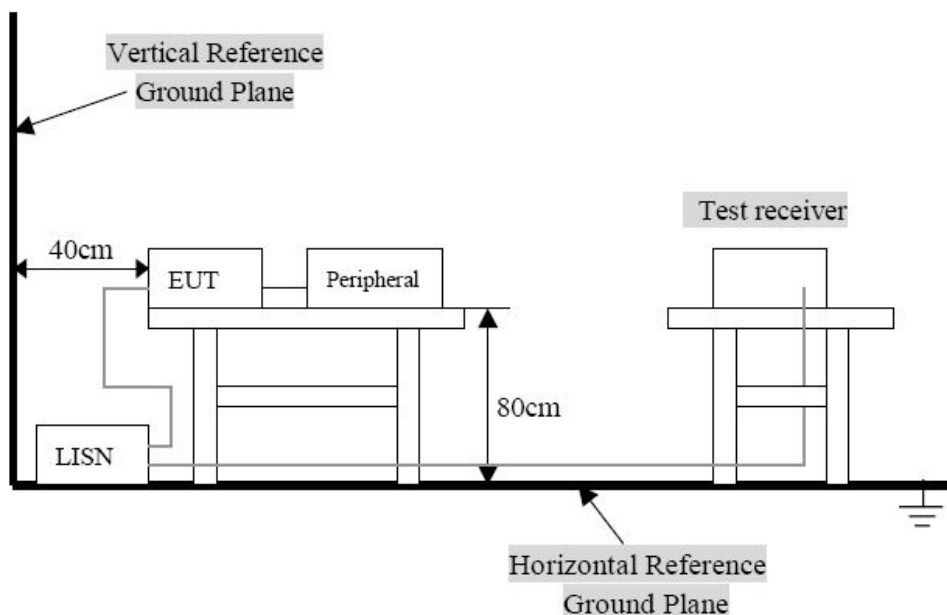
4.1 Applicable Standard

Refer to FCC §15.207.

For a Low-power Radio-frequency Device is designed to be connected to the AC power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed below limits table.

Frequency Range (MHz)	Limits (dBuV)	
	Quasi-Peak	Average
0.150~0.500	66~56	56~46
0.500~5.000	56	46
5.000~30.00	60	50

4.2 Test Setup Diagram



Remark: The EUT was connected to a 120 VAC/ 60Hz power source.

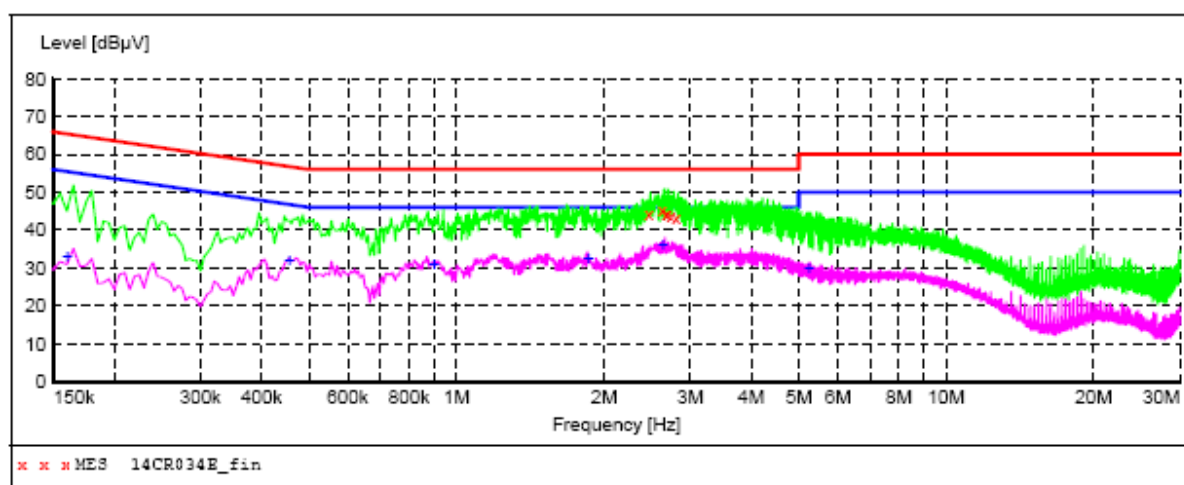
4.3 Test Result

Temperature (°C) : 23~25	EUT: Splash ,Splash Trail Edition, Splash Rocket, Rocket
Humidity (%RH) : 45~58	M/N: ST
Barometric Pressure (mbar) : 950~1000	Operation Condition: Tx Mode

Conducted Emission:

EUT: Splash ,Splash Trail Edition, Splash Rocket, Rocket
M/N: ST
Operating Condition: Tx Mode
Test Site: Shielded Room
Operator: Yang
Test Specification: AC 120V/60Hz for adapter
Comment: L Line

SCAN TABLE: "Voltage (150K-30M) FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "14CR034E_fin"

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Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
2.475000	44.40	10.4	56	11.6	QP	L1	GND
2.630000	45.10	10.4	56	10.9	QP	L1	GND
2.685000	44.30	10.4	56	11.7	QP	L1	GND
2.690000	44.50	10.4	56	11.5	QP	L1	GND
2.740000	44.00	10.4	56	12.0	QP	L1	GND
2.810000	43.50	10.4	56	12.5	QP	L1	GND

MEASUREMENT RESULT: "14CR034E_fin2"

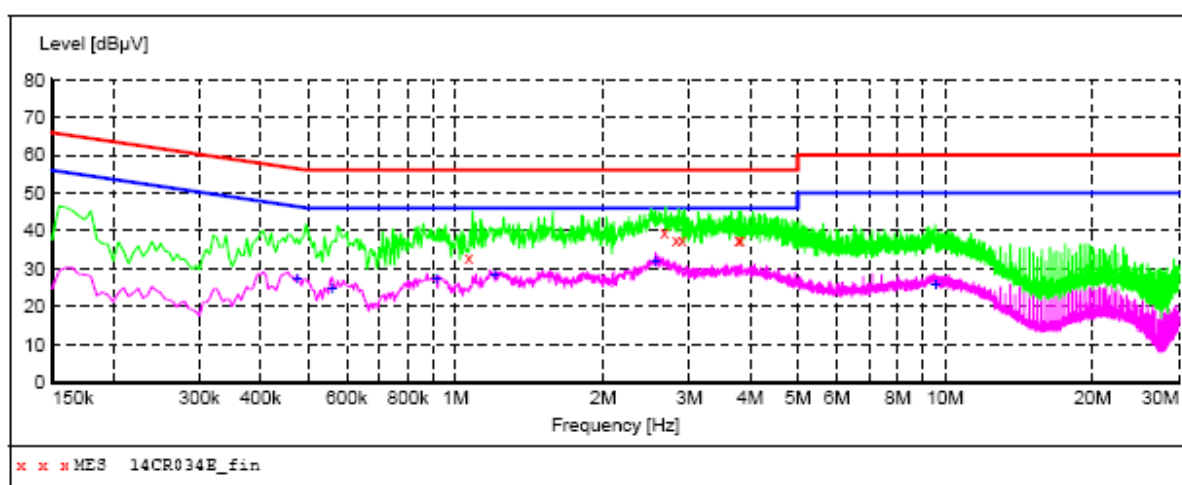
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Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.160000	33.10	12.9	56	22.4	AV	L1	GND
0.455000	32.00	10.6	47	14.8	AV	L1	GND
0.900000	31.00	10.4	46	15.0	AV	L1	GND
1.860000	32.60	10.4	46	13.4	AV	L1	GND
2.640000	35.90	10.4	46	10.1	AV	L1	GND
5.255000	29.90	10.4	50	20.1	AV	L1	GND

Conducted Emission:

EUT: Splash ,Splash Trail Edition, Splash Rocket, Rocket
M/N: ST
Operating Condition: Tx Mode
Test Site: Shielded Room
Operator: Yang
Test Specification: AC 120V/60Hz for adapter
Comment: N Line

SCAN TABLE: "Voltage (150K-30M) FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "14CR034E_fin"

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Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
1.065000	33.20	10.5	56	22.8	QP	N	GND
2.675000	39.50	10.4	56	16.5	QP	N	GND
2.825000	37.60	10.4	56	18.4	QP	N	GND
2.900000	37.70	10.4	56	18.3	QP	N	GND
3.780000	37.50	10.4	56	18.5	QP	N	GND
3.815000	37.80	10.4	56	18.2	QP	N	GND

MEASUREMENT RESULT: "14CR034E_fin2"

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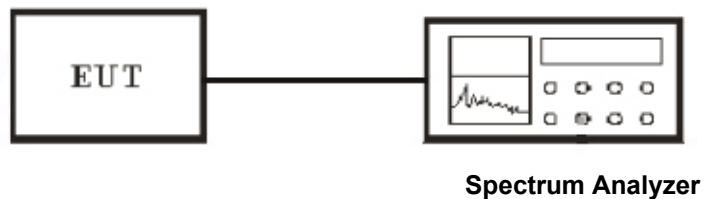
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.475000	27.10	10.5	46	19.3	AV	N	GND
0.560000	24.90	10.5	46	21.1	AV	N	GND
0.915000	27.50	10.4	46	18.5	AV	N	GND
1.205000	28.30	10.4	46	17.7	AV	N	GND
2.565000	31.90	10.4	46	14.1	AV	N	GND
9.580000	25.60	10.6	50	24.4	AV	N	GND

5. Test of Hopping Channel Bandwidth

5.1 Applicable Standard

Section 15.247(a)(1): Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

5.2 EUT Setup



5.3 Test Equipment List and Details

See section 2.5.

5.4 Test Procedure

1. The transmitter output was connected to the spectrum analyzer through an attenuator.
2. Use the following spectrum analyzer settings:
Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel
RBW \geq 1% of the 20 dB bandwidth, VBW \geq RBW
Sweep = auto
Detector function = peak
Trace = max hold
3. The spectrum width with level higher than 20dB below the peak level.
4. Repeat above 1~3 points for the middle and highest channel of the EUT.

5.5 Test Result

Temperature (°C) : 22~23	EUT: Splash ,Splash Trail Edition, Splash Rocket, Rocket
Humidity (%RH) : 50~54	M/N: ST
Barometric Pressure (mbar) : 950~1000	Operation Condition: Tx Mode

BDR 1M

Modulation Type	Channel No.	Frequency (MHz)	20dB Bandwidth (kHz)
GFSK	Low	2402.00	920
GFSK	Middle	2441.00	924
GFSK	High	2480.00	944

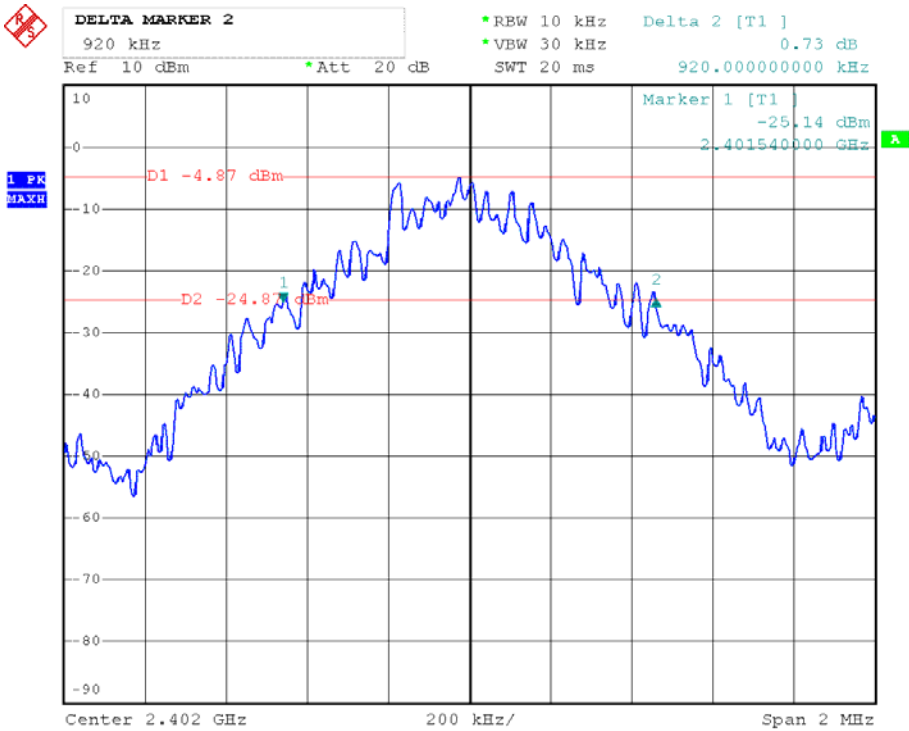
EDR 2M

Modulation Type	Channel No.	Frequency (MHz)	20dB Bandwidth (kHz)
Pi/4 DQPSK	Low	2402.00	1212
Pi/4 DQPSK	Middle	2441.00	1228
Pi/4 DQPSK	High	2480.00	1228

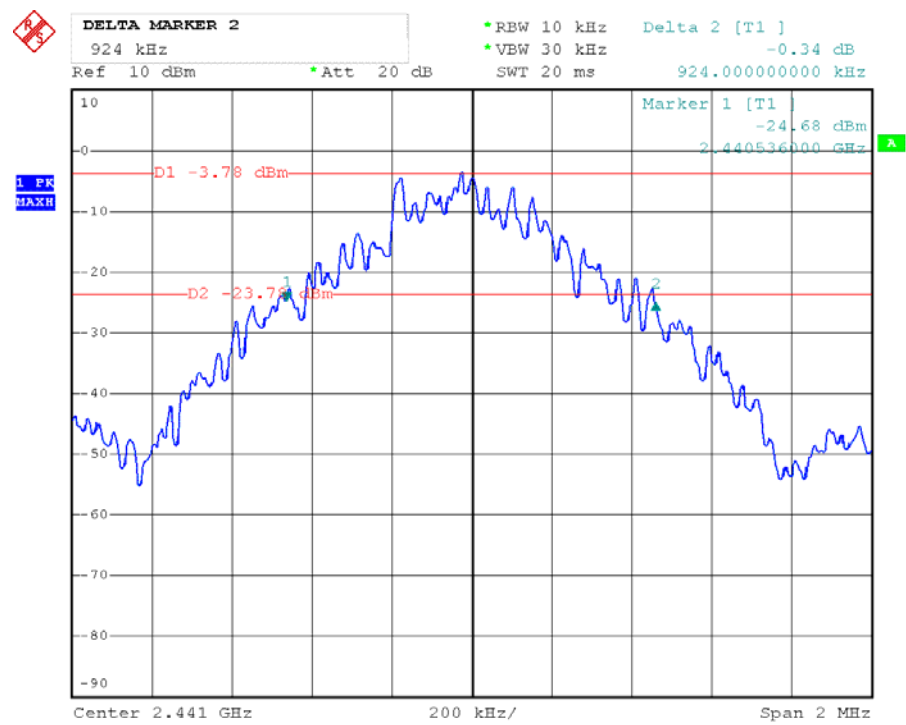
EDR 3M

Modulation Type	Channel No.	Frequency (MHz)	20dB Bandwidth (kHz)
8-DPSK	Low	2402.00	1212
8-DPSK	Middle	2441.00	1216
8-DPSK	High	2480.00	1216

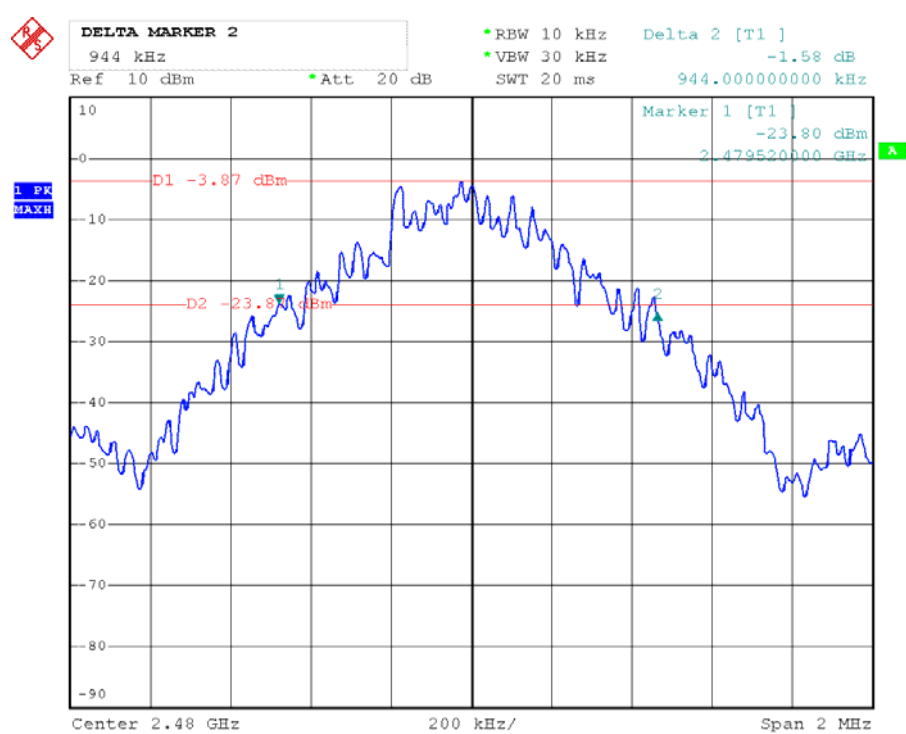
BDR 1M
Channel Low



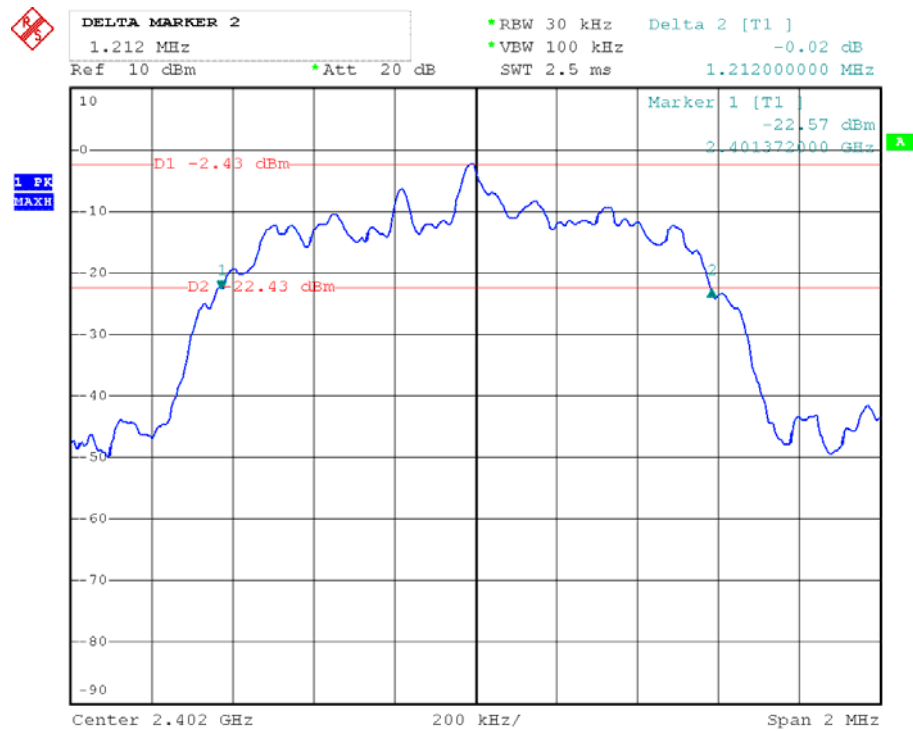
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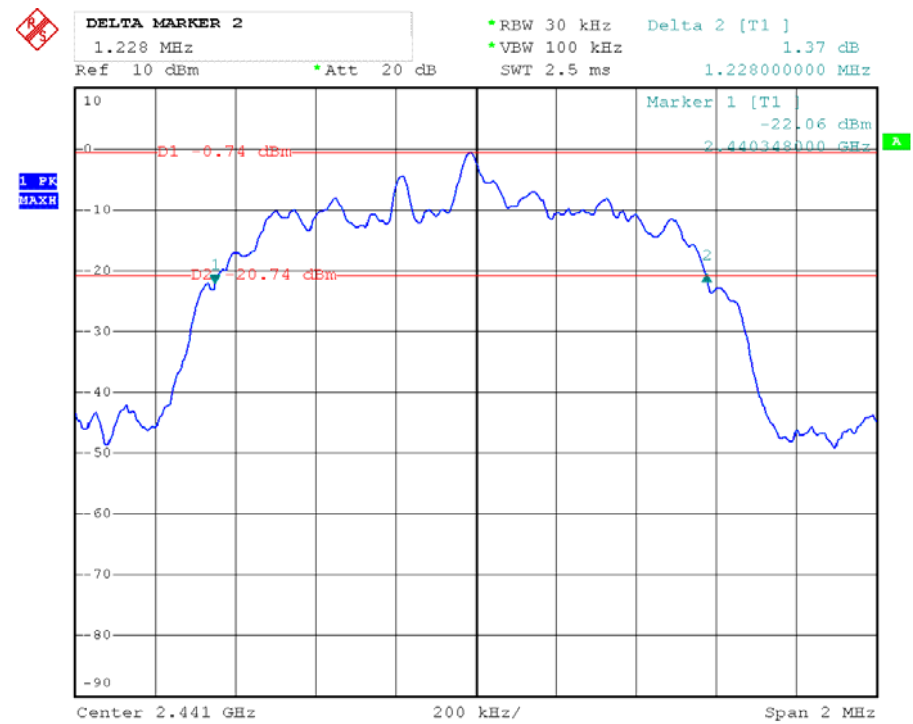
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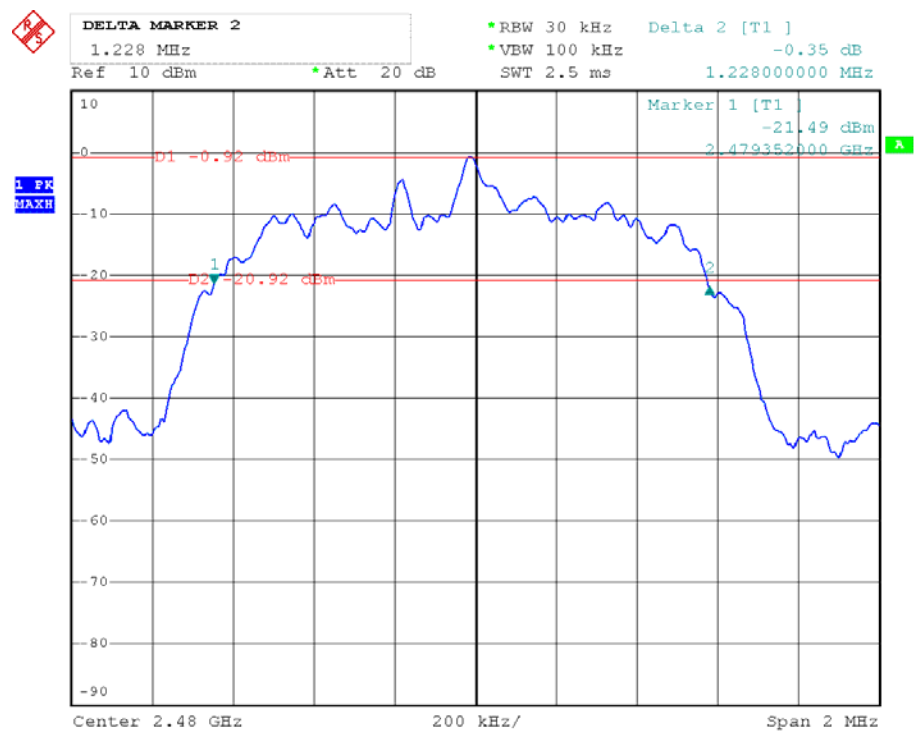
EDR 2M
Channel Low



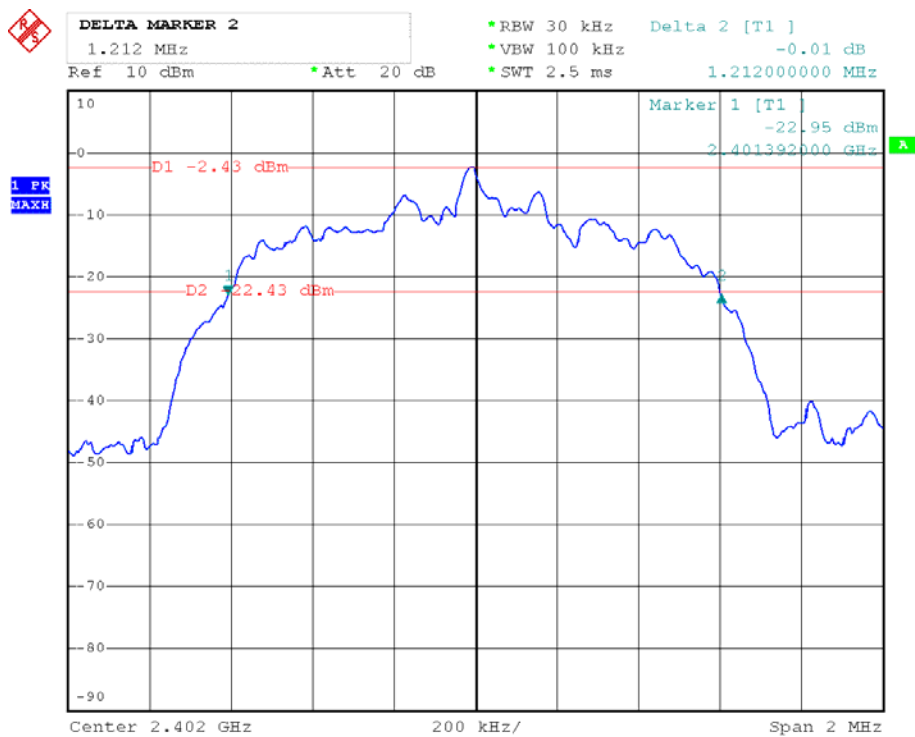
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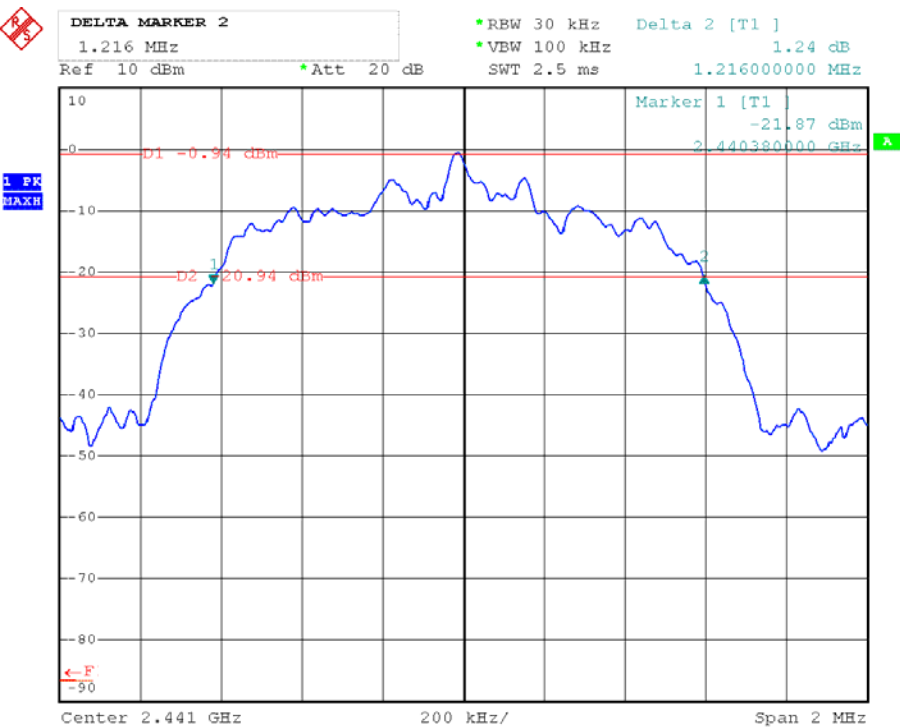
Channel High



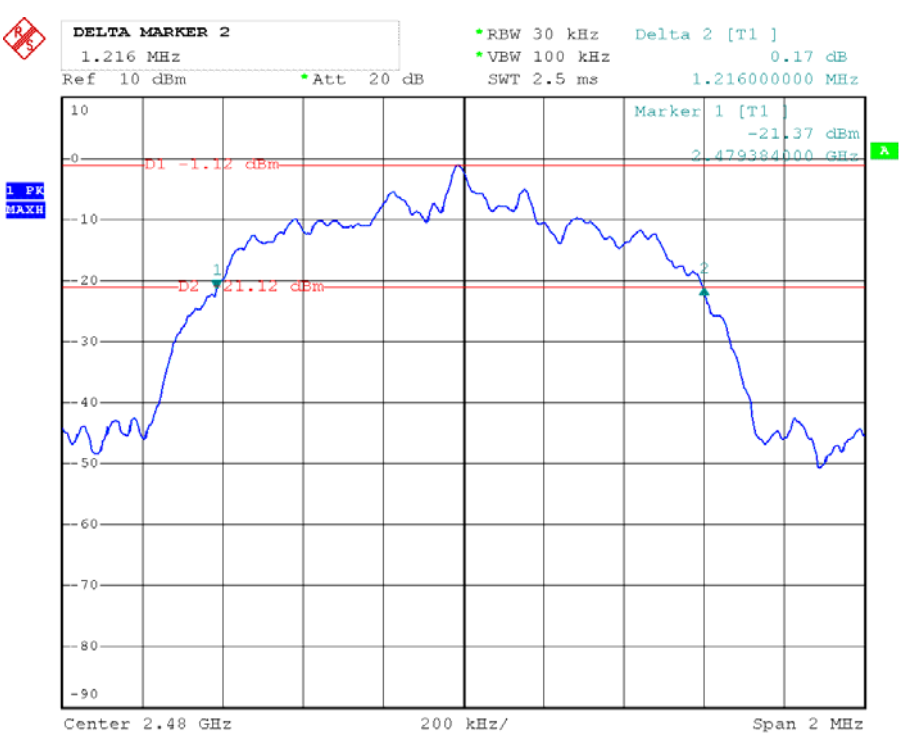
EDR 3M
Channel Low



Channel Middle



Channel High

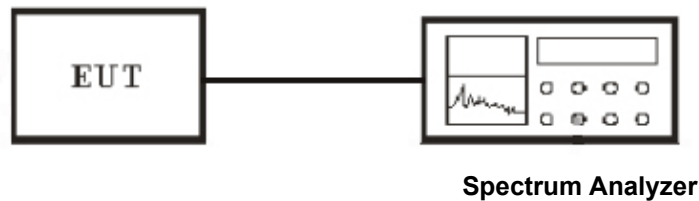


6. Test of Hopping Channel Separation

6.1 Applicable Standard

Section 15.247(a)(1): Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

6.2 EUT Setup



6.3 Test Equipment List and Details

See section 2.5.

6.4 Test Procedure

1. The transmitter output was connected to the spectrum analyzer through an attenuator.
2. Set RBW of spectrum analyzer to 30KHz and VBW to 100KHz.
3. Set Detector to Peak, Trace to Max Hold and Sweep Time is Auto.
4. The Hopping Channel Separation is defined as the separation between 2 neighboring hopping frequencies.
5. Repeat above 1~3 points for the middle and highest channel of the EUT.

6.5 Test Result

Temperature (°C) : 22~23	EUT: Splash ,Splash Trail Edition, Splash Rocket, Rocket
Humidity (%RH) : 50~54	M/N: ST
Barometric Pressure (mbar) : 950~1000	Operation Condition: Tx Mode

BDR 1M

Modulation Type	Frequency (MHz)	Channel Separation (MHz)	Min. Limit (kHz)
GFSK	2402~2403	1.008	>25
GFSK	2441~2442	1.000	>25
GFSK	2479~2480	1.004	>25

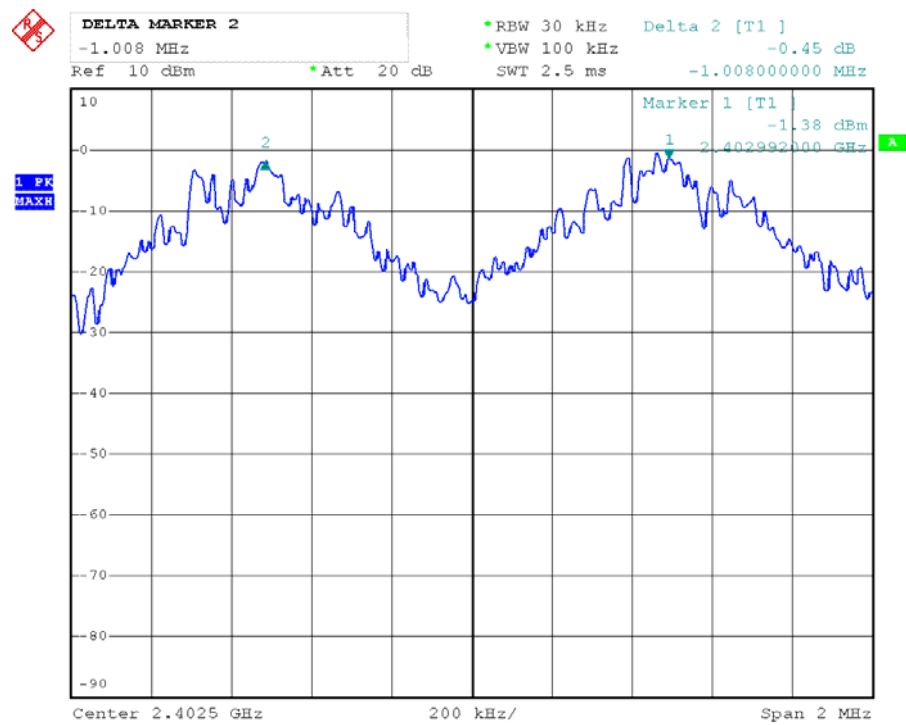
EDR 2M

Modulation Type	Frequency (MHz)	Channel Separation (MHz)	Min. Limit (kHz)
Pi/4 DQPSK	2402~2403	1.004	>25
Pi/4 DQPSK	2441~2442	1.008	>25
Pi/4 DQPSK	2479~2480	1.000	>25

EDR 3M

Modulation Type	Frequency (MHz)	Channel Separation (MHz)	Min. Limit (kHz)
8-DPSK	2402~2403	1.000	>25
8-DPSK	2441~2442	1.000	>25
8-DPSK	2479~2480	1.000	>25

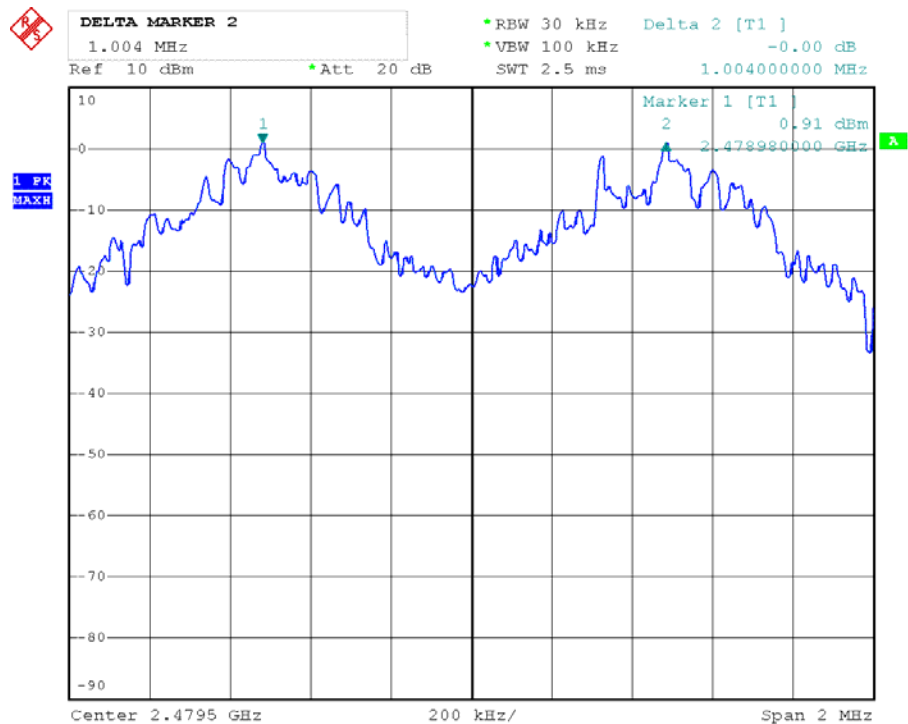
BDR 1M
Channel Low



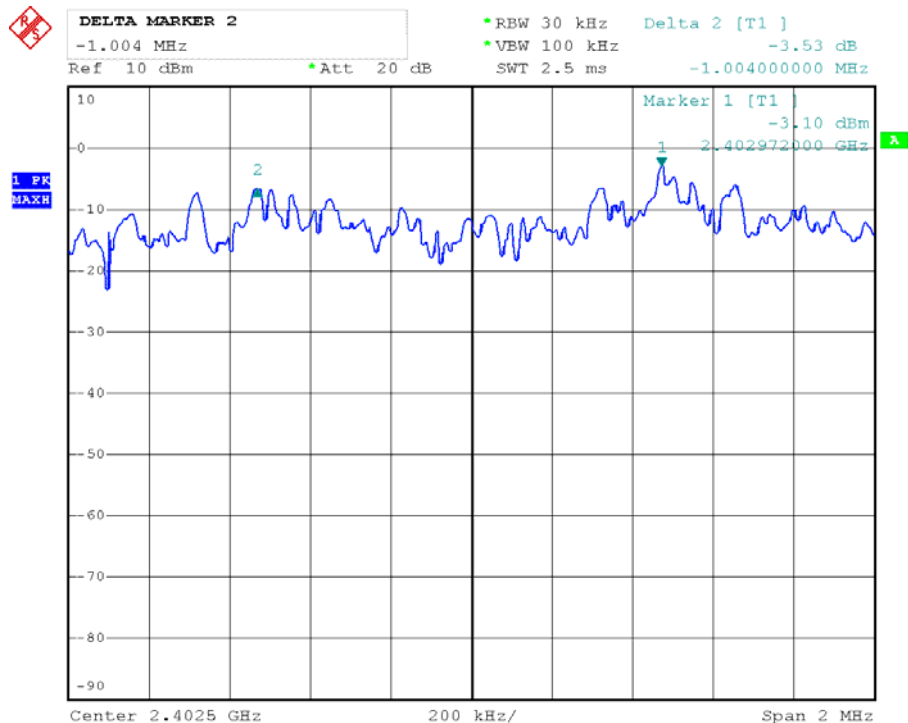
Channel Middle



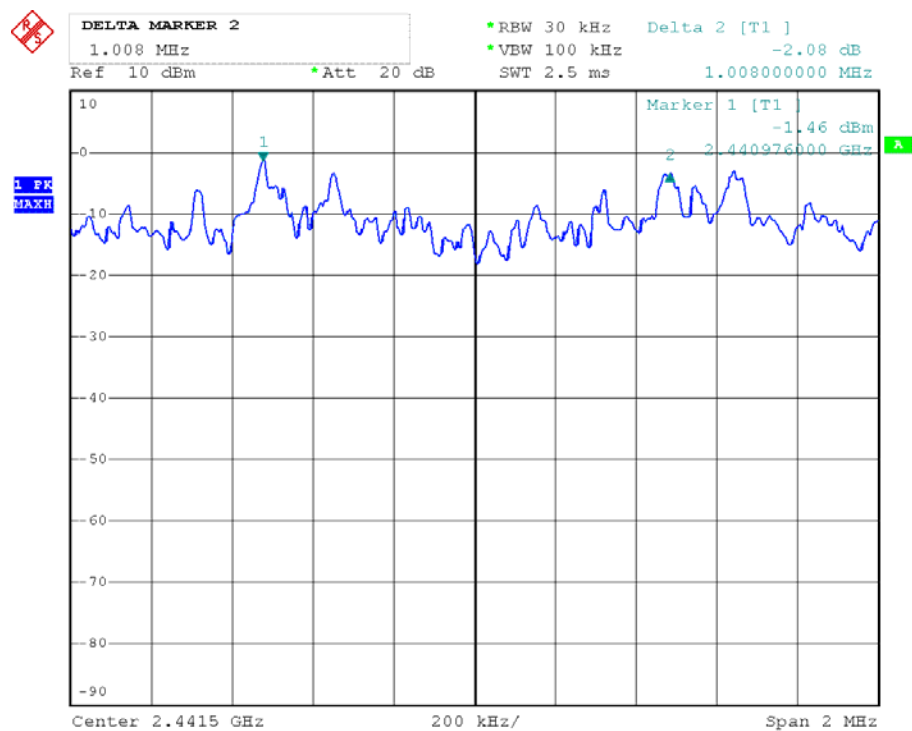
Channel High



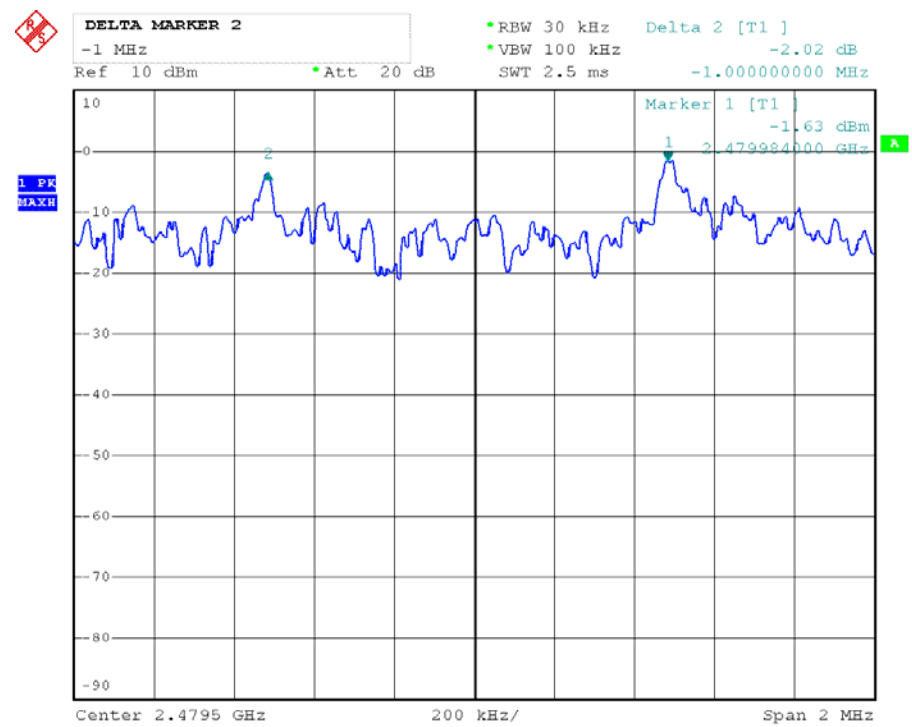
EDR 2M
Channel Low



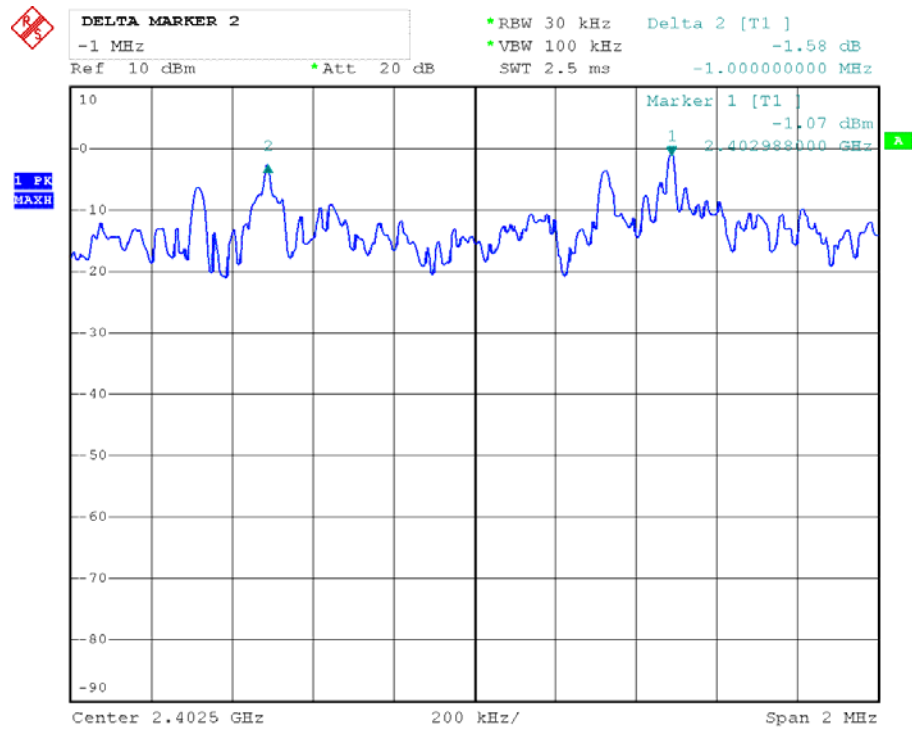
Channel Middle



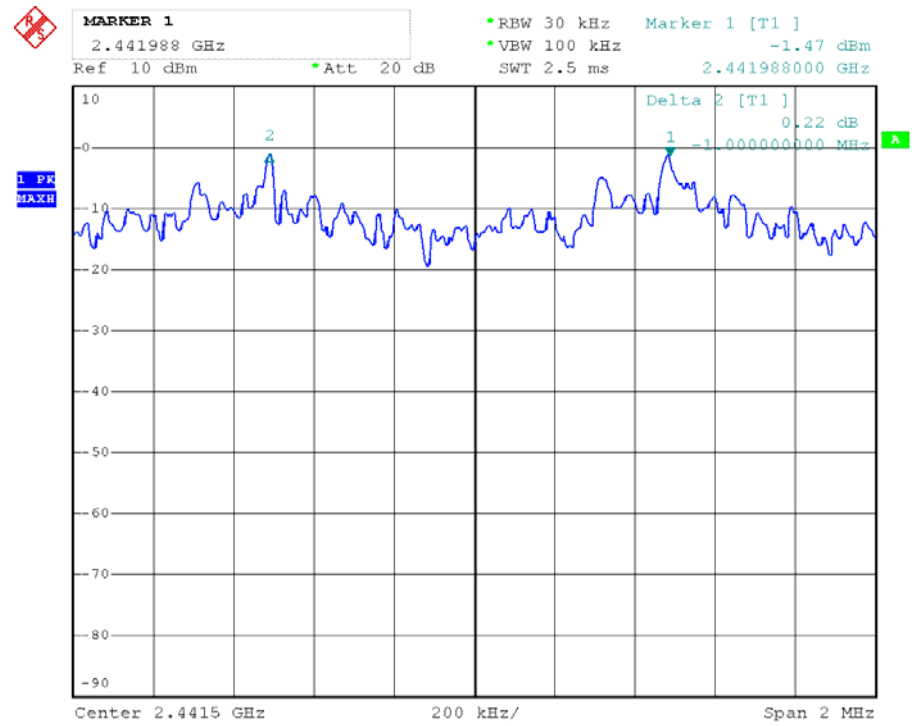
Channel High



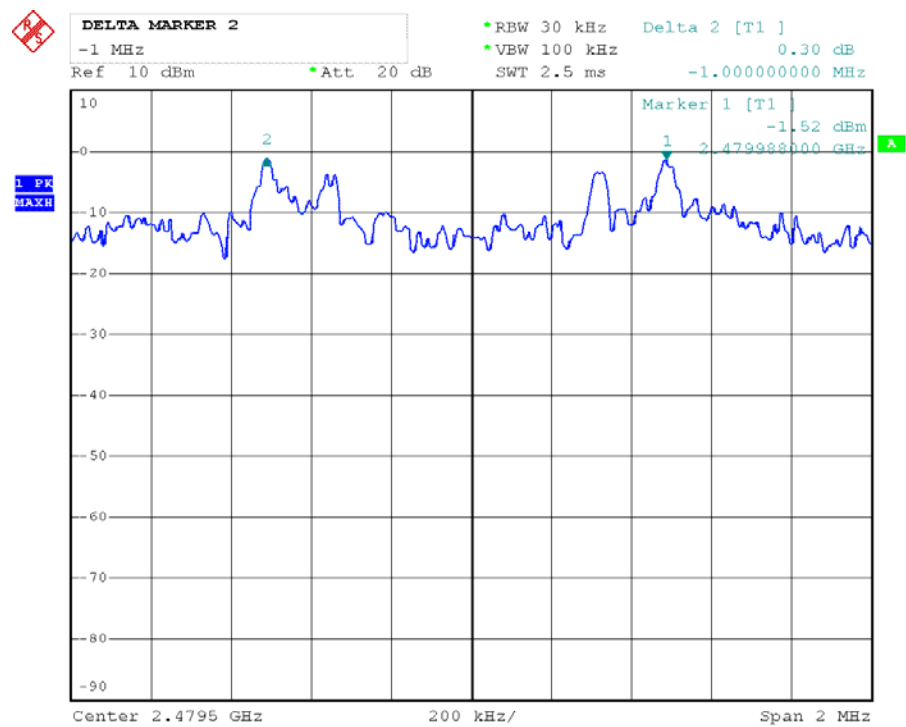
EDR 3M
Channel Low



Channel Middle



Channel High

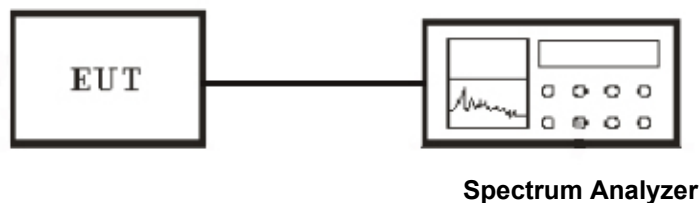


7. Test of Number of Hopping Frequency

7.1 Applicable Standard

Section 15.247(a)(1)(iii): For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 15 non-overlapping hopping channels. Frequency hopping system which use fewer than 75 hopping frequencies may employ intelligent hopping techniques to avoid interference to other transmissions. Frequency hopping system may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 non-overlapping channels are used.

7.2 EUT Setup



7.3 Test Equipment List and Details

See section 2.5.

7.4 Test Procedure

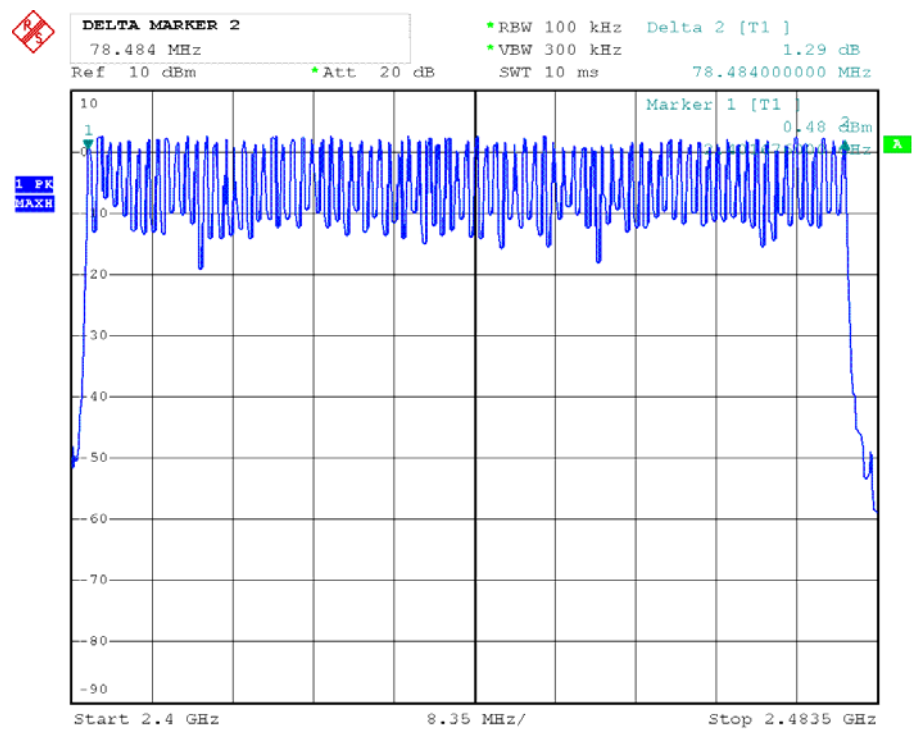
1. The transmitter output was connected to the spectrum analyzer through an attenuator.
2. Set RBW of spectrum analyzer to 100KHz and VBW to 100KHz.
3. Set Detector to Peak, Trace to Max Hold and Sweep Time is Auto.
4. Observe frequency hopping in 2400MHz~2483.5MHz, there are at least 32 non-overlapping channels.
5. Repeat above 1~3 points for the middle and highest channel of the EUT.

7.5 Test Result

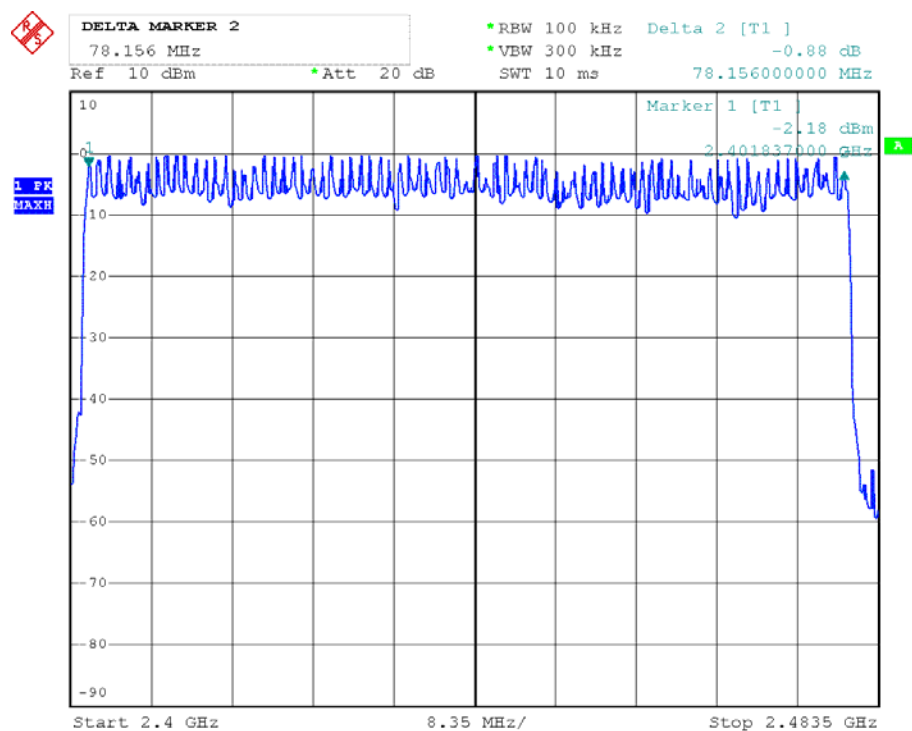
Temperature (°C) : 22~23	EUT: Splash ,Splash Trail Edition, Splash Rocket, Rocket
Humidity (%RH) : 50~54	M/N: ST
Barometric Pressure (mbar) : 950~1000	Operation Condition: Tx Mode

Modulation Type	Frequency (MHz)	Number of Hopping Channels	Min. Limit
GFSK	2402~2480	79	≥ 15
Pi/4 DQPSK	2402~2480	79	≥ 15
8-DPSK	2402~2480	79	≥ 15

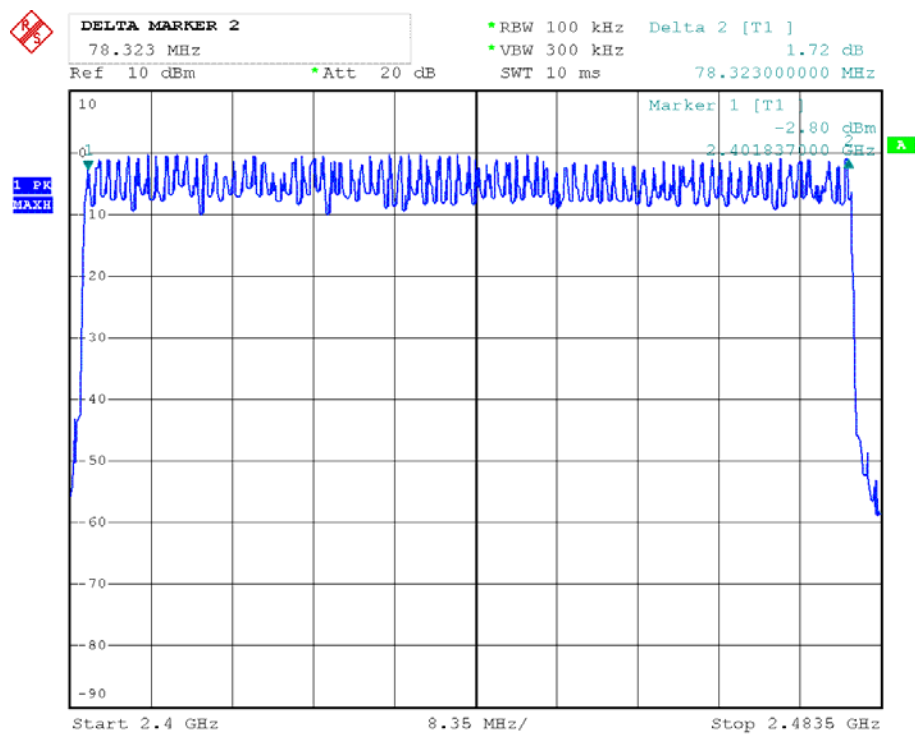
BDR-1M



EDR-2M



EDR-3M

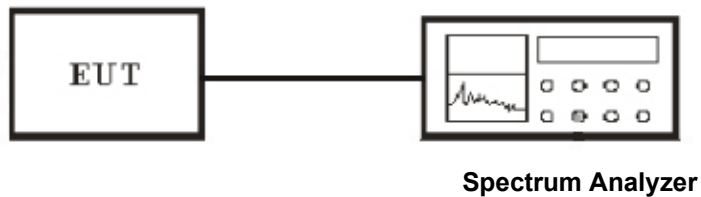


8. Test of Dwell Time of Each Frequency

8.1 Applicable Standard

Section 15.247(a)(1)(iii): For frequency hopping systems operating in the 2400-2483.5 MHz band The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4seconds multiplied by the number of hopping channels employed.

8.2 EUT Setup



8.3 Test Equipment List and Details

See section 2.5.

8.4 Test Procedure

1. The transmitter output was connected to the spectrum analyzer through an attenuator.
2. Set RBW of spectrum analyzer to 1000kHz and VBW to 1000kHz.
3. Set Detector to Peak, Trace to Max Hold and Sweep Time is more than once pulse time.
4. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
5. Measure the maximum time duration of one single pulse.

8.5 Test Result

Temperature (°C) : 22~23	EUT: Splash ,Splash Trail Edition, Splash Rocket, Rocket
Humidity (%RH) : 50~54	M/N: ST
Barometric Pressure (mbar) : 950~1000	Operation Condition: Tx Mode

DH1

Dwell time= $t \cdot (1.6/2/79) \cdot 31.6$

DH3

Dwell time= $t \cdot (1.6/4/79) \cdot 31.6$

DH5

Dwell time= $t \cdot (1.6/6/79) \cdot 31.6$

BDR 1M
Low Channel

Modulation Type		Reading (ms)	Dwell Time (ms)	Limit (ms)
GFSK	DH1	0.384	122.88	400
GFSK	DH3	1.640	262.40	400
GFSK	DH5	2.888	309.02	400

Middle Channel

Modulation Type		Reading (ms)	Dwell Time (ms)	Limit (ms)
GFSK	DH1	0.385	123.20	400
GFSK	DH3	1.620	259.20	400
GFSK	DH5	2.888	309.02	400

High Channel

Modulation Type		Reading (ms)	Dwell Time (ms)	Limit (ms)
GFSK	DH1	0.385	123.20	400
GFSK	DH3	1.620	259.20	400
GFSK	DH5	2.888	309.02	400

EDR 2M
Low Channel

Modulation Type		Reading (ms)	Dwell Time (ms)	Limit (ms)
Pi/4 DQPSK	2DH1	0.395	126.40	400
Pi/4 DQPSK	2DH3	1.645	263.20	400
Pi/4 DQPSK	2DH5	2.909	311.26	400

Middle Channel

Modulation Type		Reading (ms)	Dwell Time (ms)	Limit (ms)
Pi/4 DQPSK	2DH1	0.395	126.40	400
Pi/4 DQPSK	2DH3	1.645	263.20	400
Pi/4 DQPSK	2DH5	2.877	307.84	400

High Channel

Modulation Type		Reading (ms)	Dwell Time (ms)	Limit (ms)
Pi/4 DQPSK	2DH1	0.395	126.40	400
Pi/4 DQPSK	2DH3	1.645	263.20	400
Pi/4 DQPSK	2DH5	2.877	307.84	400

EDR 3M
Low Channel

Modulation Type		Reading (ms)	Dwell Time (ms)	Limit (ms)
8-DPSK	3DH1	0.400	128.00	400
8-DPSK	3DH3	1.640	262.40	400
8-DPSK	3DH5	2.896	308.97	400

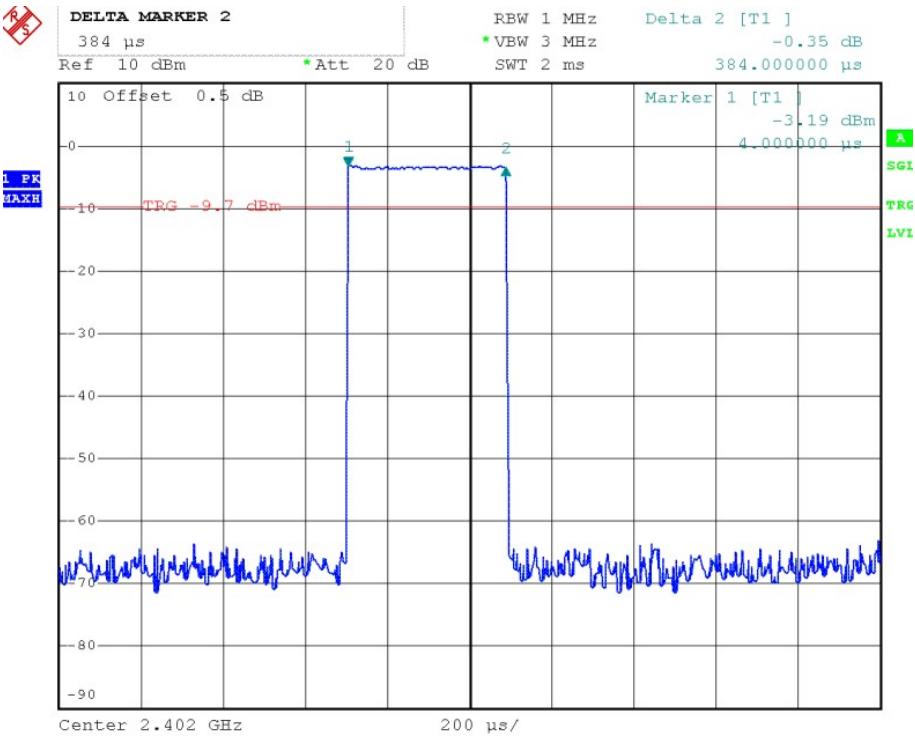
Middle Channel

Modulation Type		Reading (ms)	Dwell Time (ms)	Limit (ms)
8-DPSK	3DH1	0.400	128.00	400
8-DPSK	3DH3	1.640	262.40	400
8-DPSK	3DH5	2.896	308.97	400

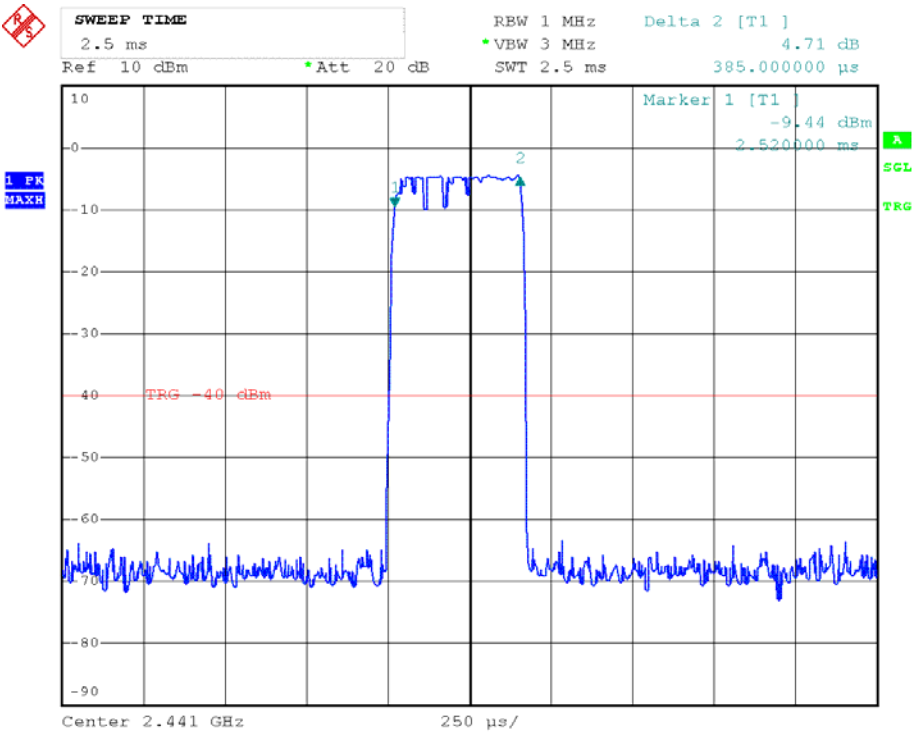
High Channel

Modulation Type		Reading (ms)	Dwell Time (ms)	Limit (ms)
8-DPSK	3DH1	0.405	129.60	400
8-DPSK	3DH3	1.640	262.40	400
8-DPSK	3DH5	2.896	308.97	400

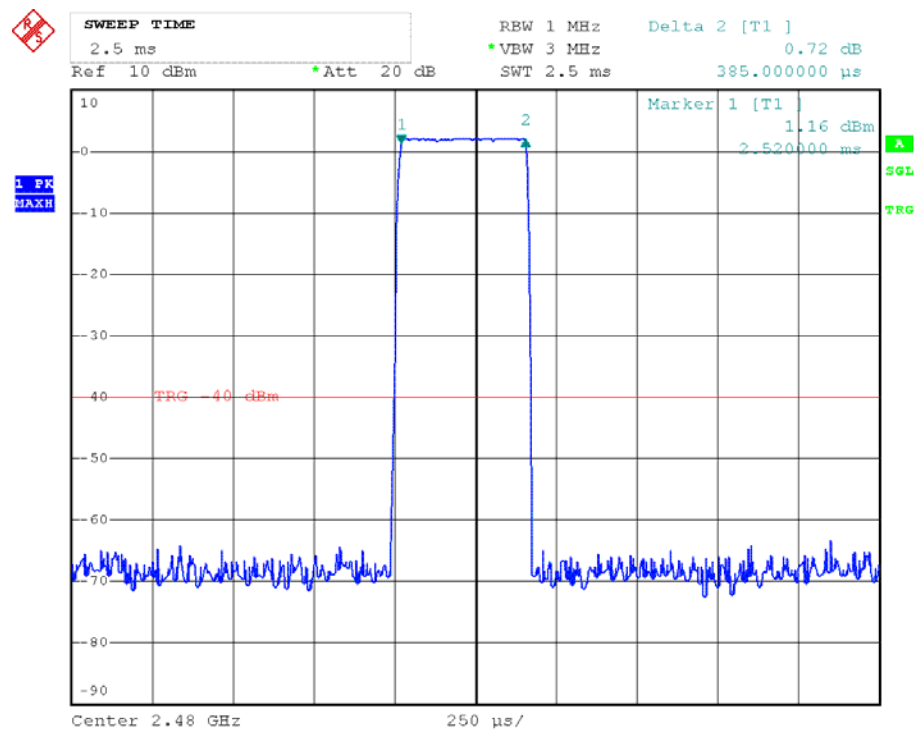
BDR-DH1
Channel Low



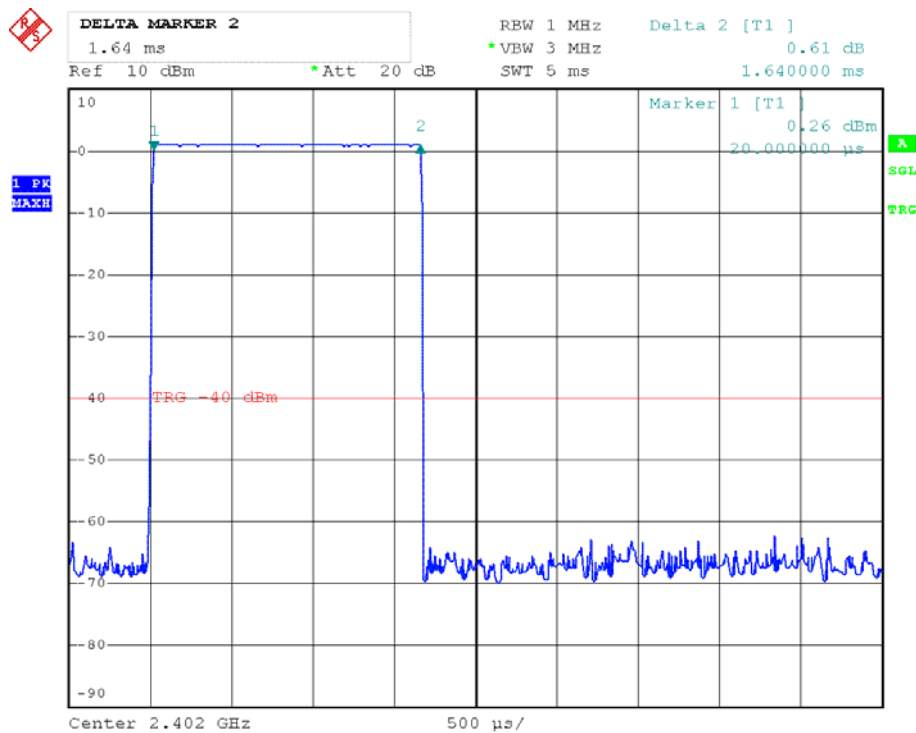
Channel Middle



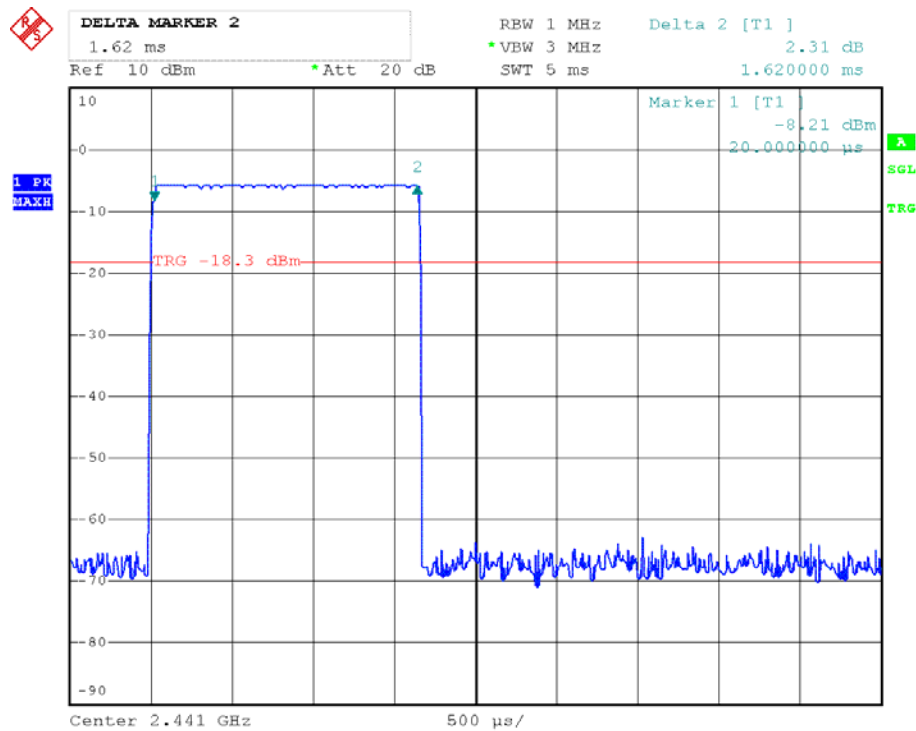
Channel High



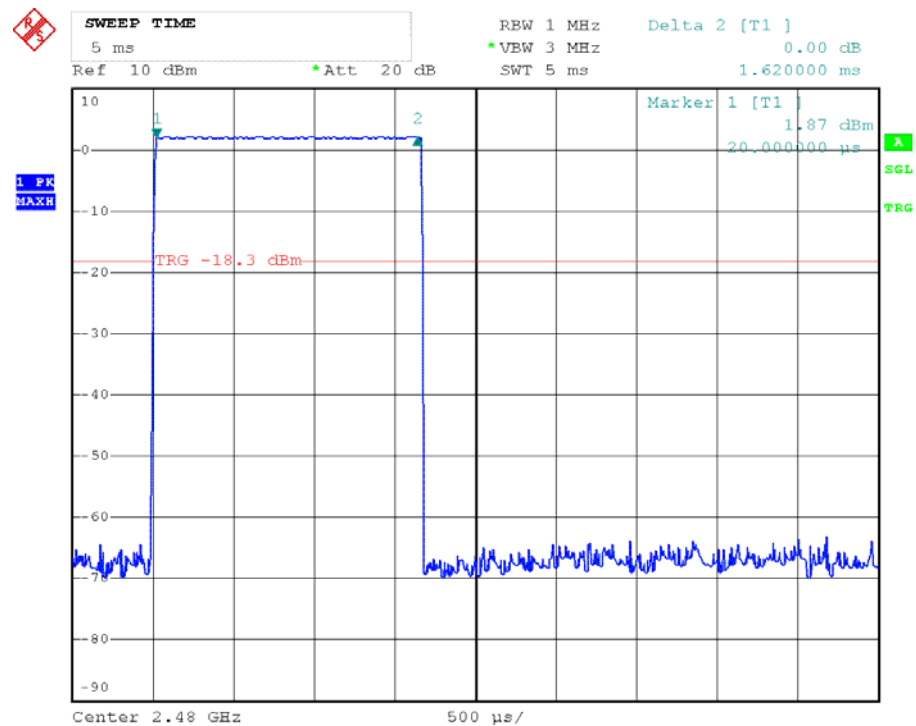
DH3
Channel Low



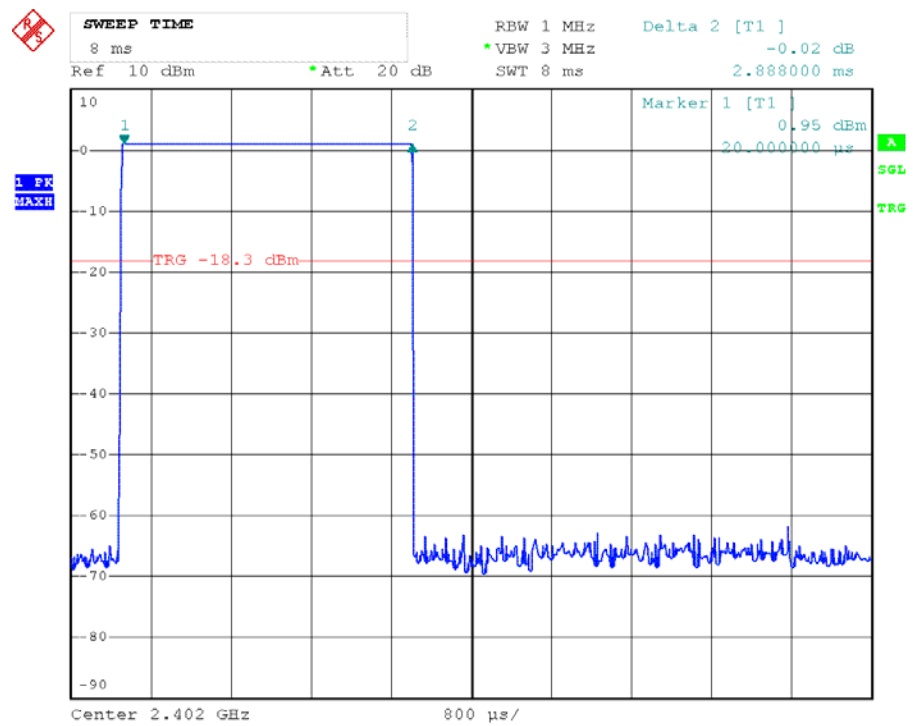
Channel Middle



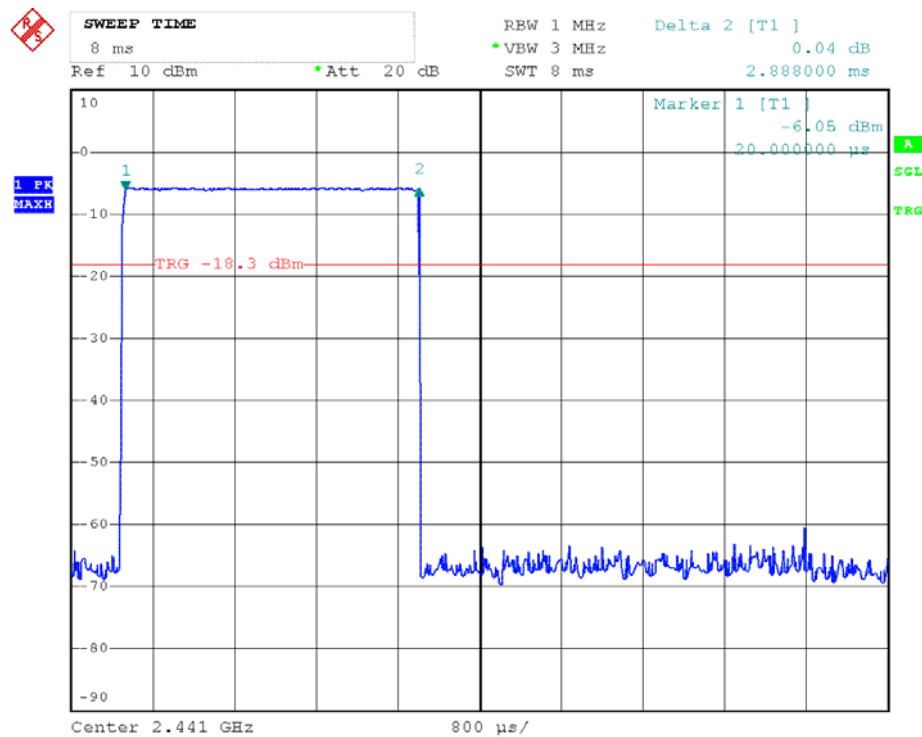
Channel High



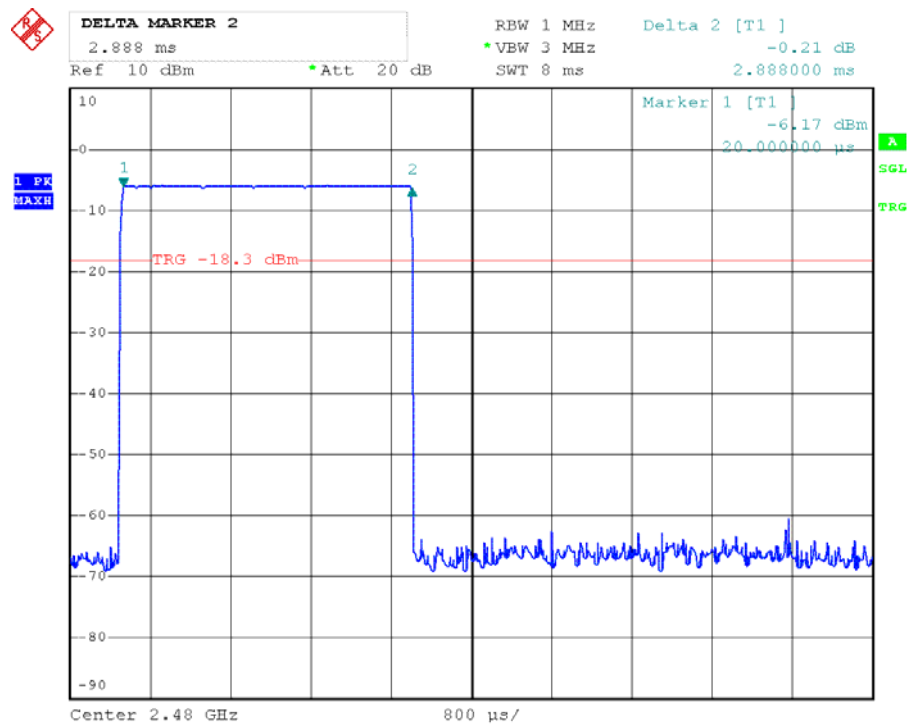
DH5
Channel Low



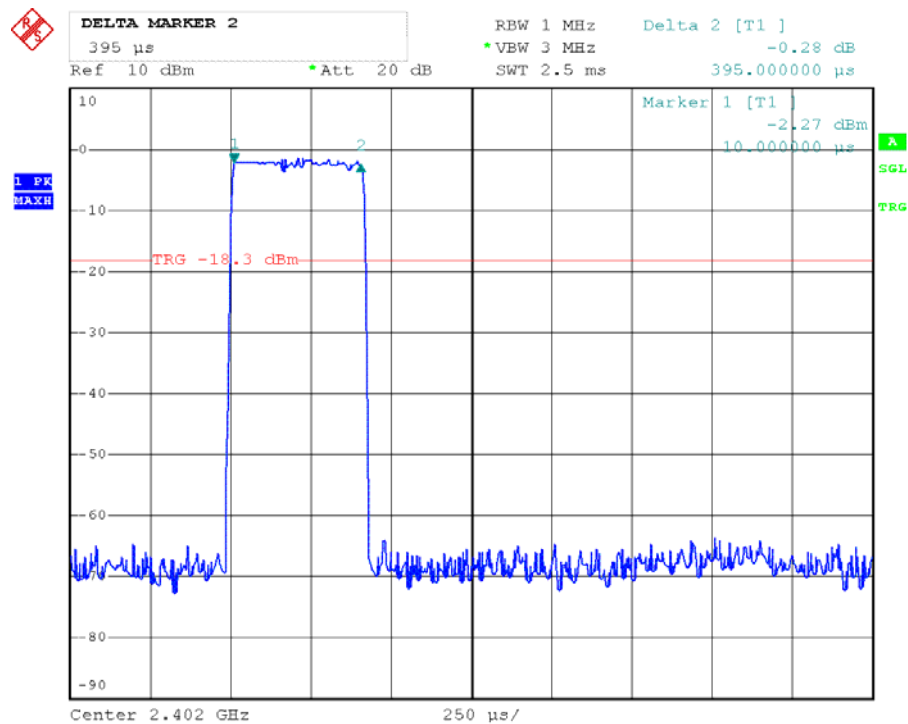
Channel Middle



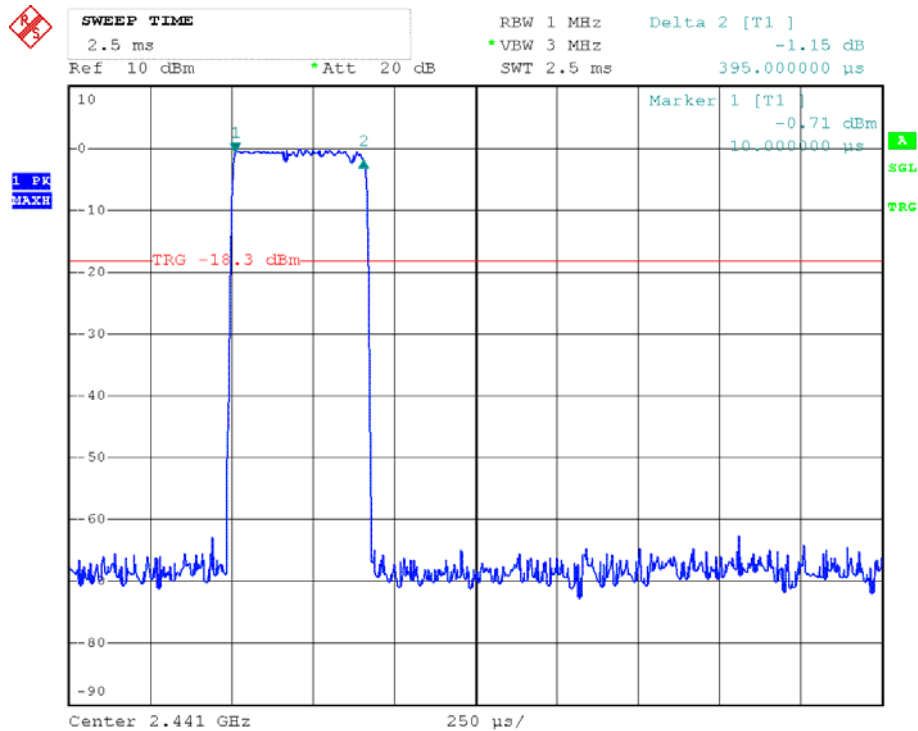
Channel High



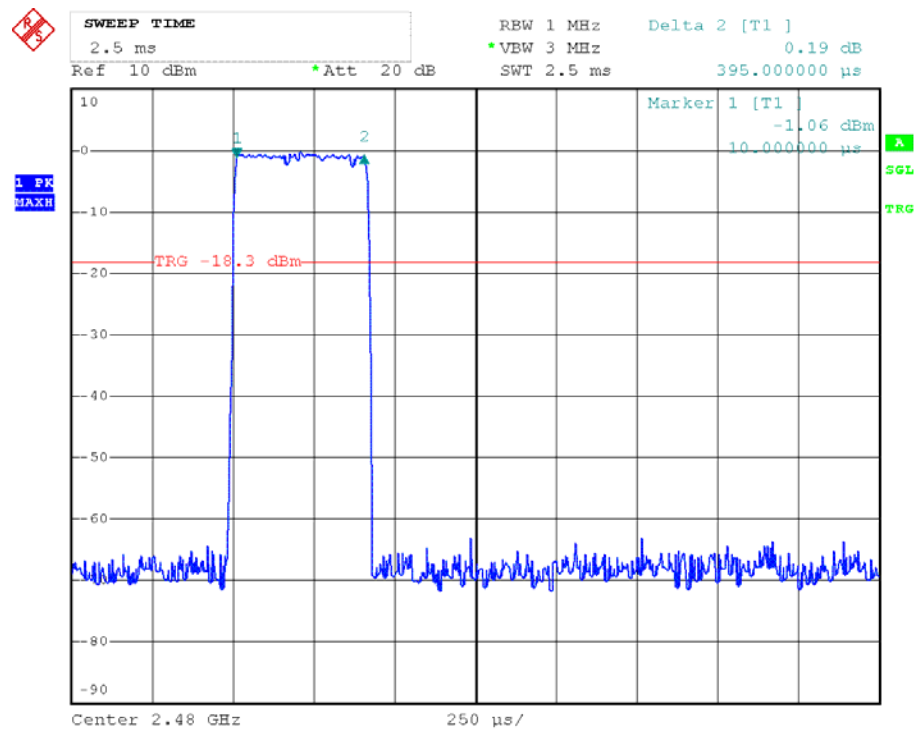
EDR 2M 2DH1
Channel Low



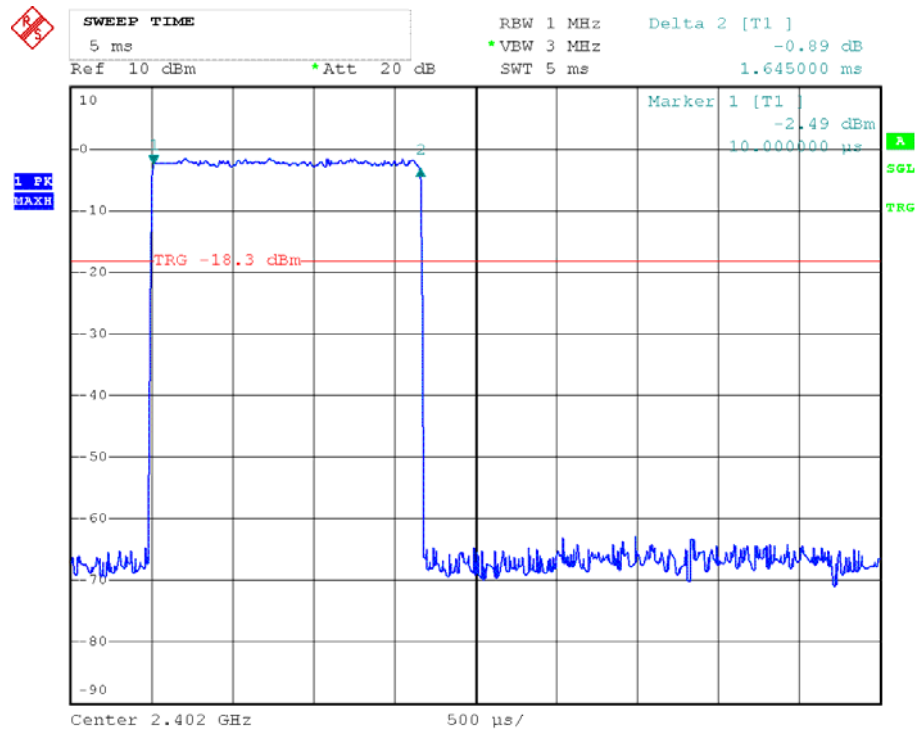
Channel Middle



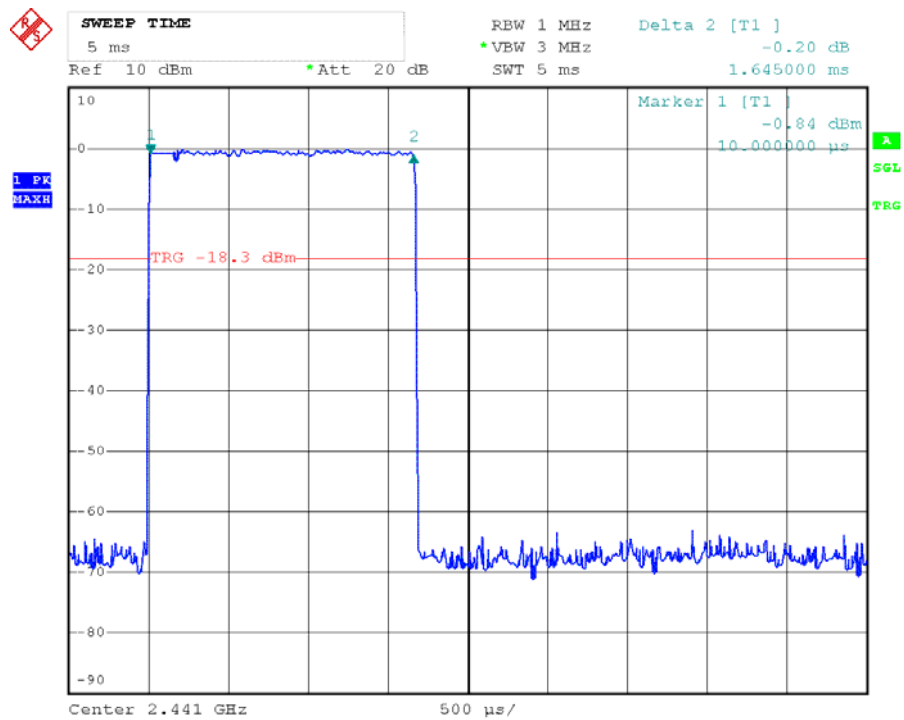
Channel High



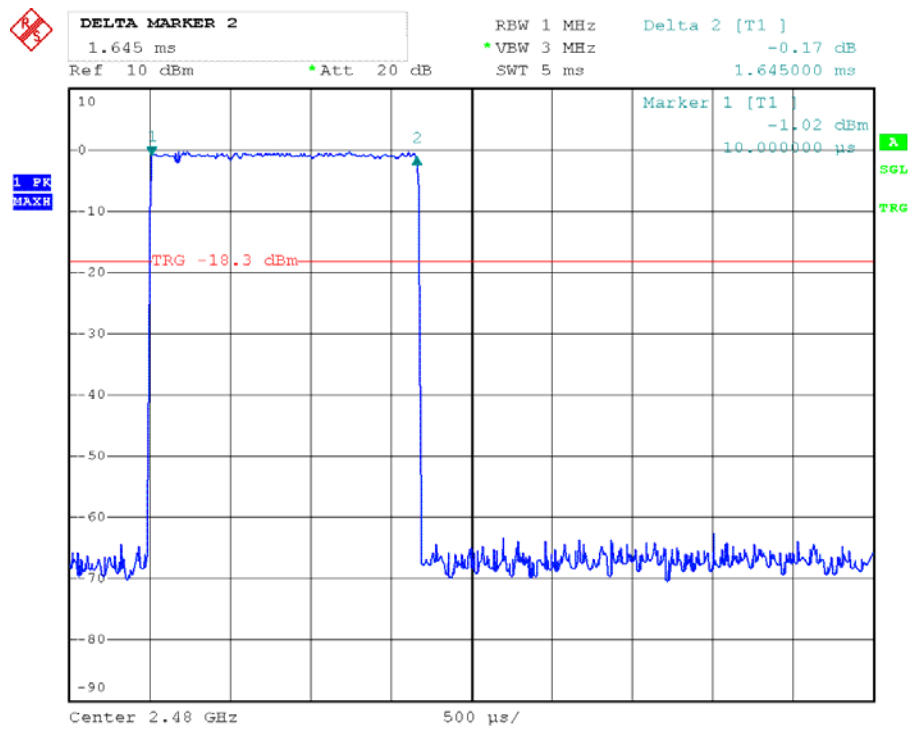
EDR 2M 2DH3
Channel Low



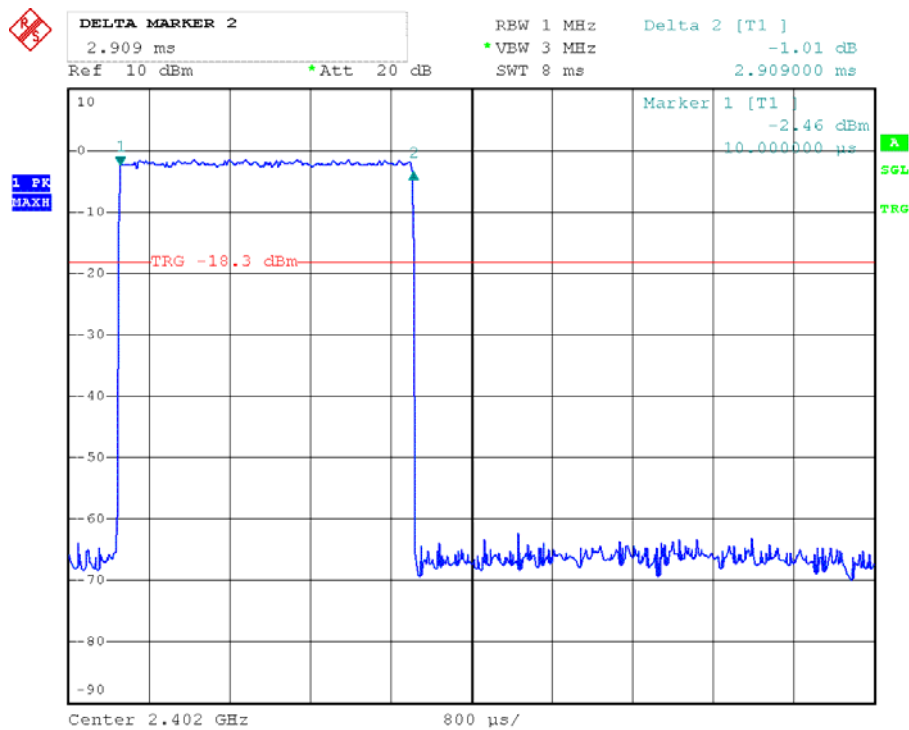
Channel Middle



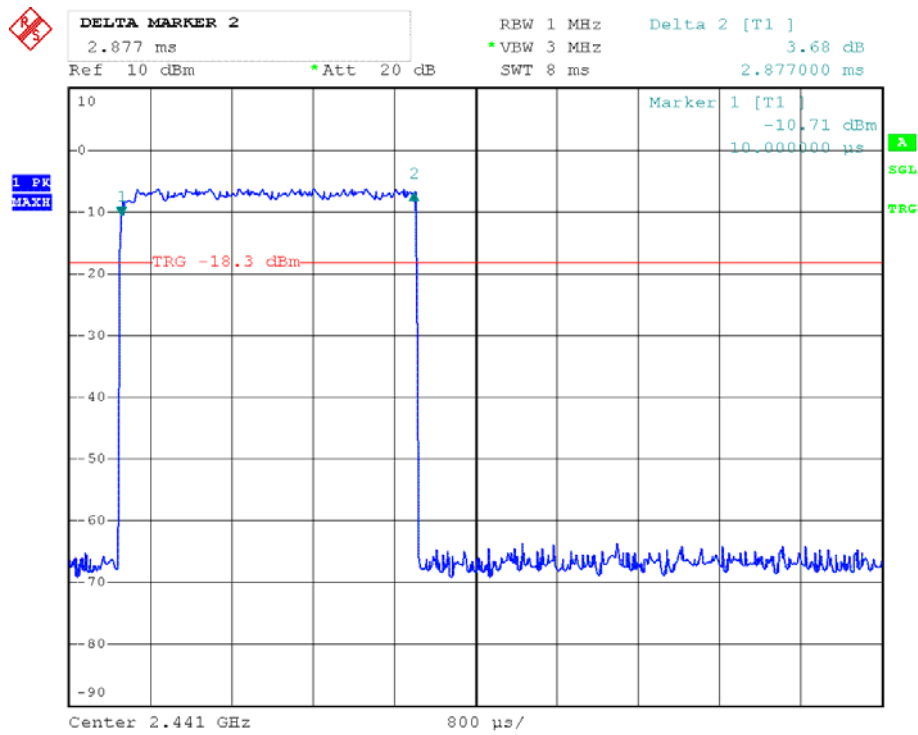
Channel High



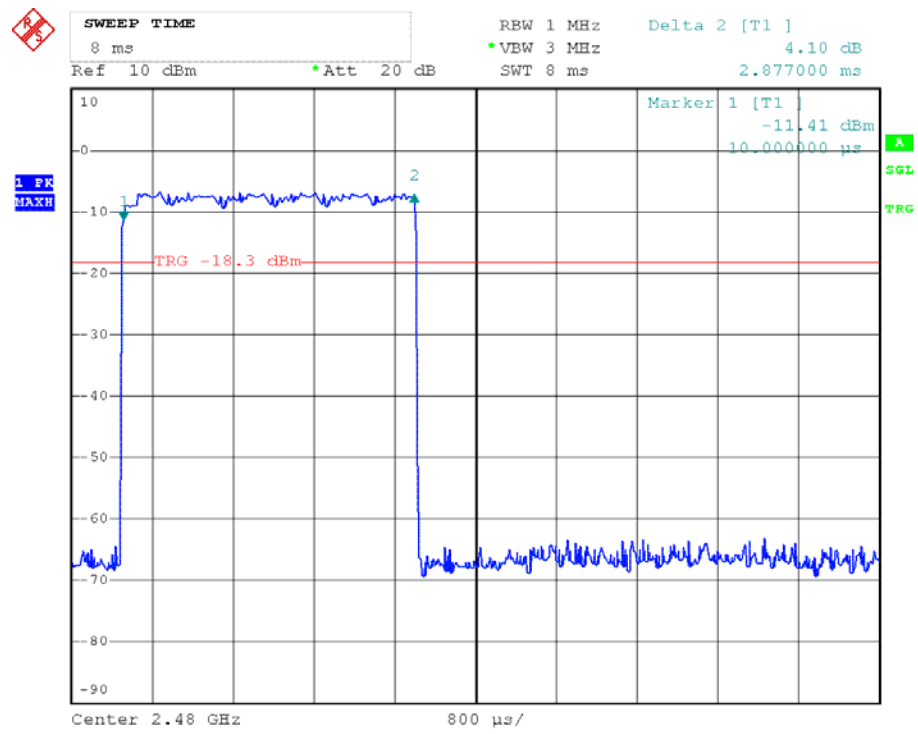
EDR 2M 2DH5
Channel Low



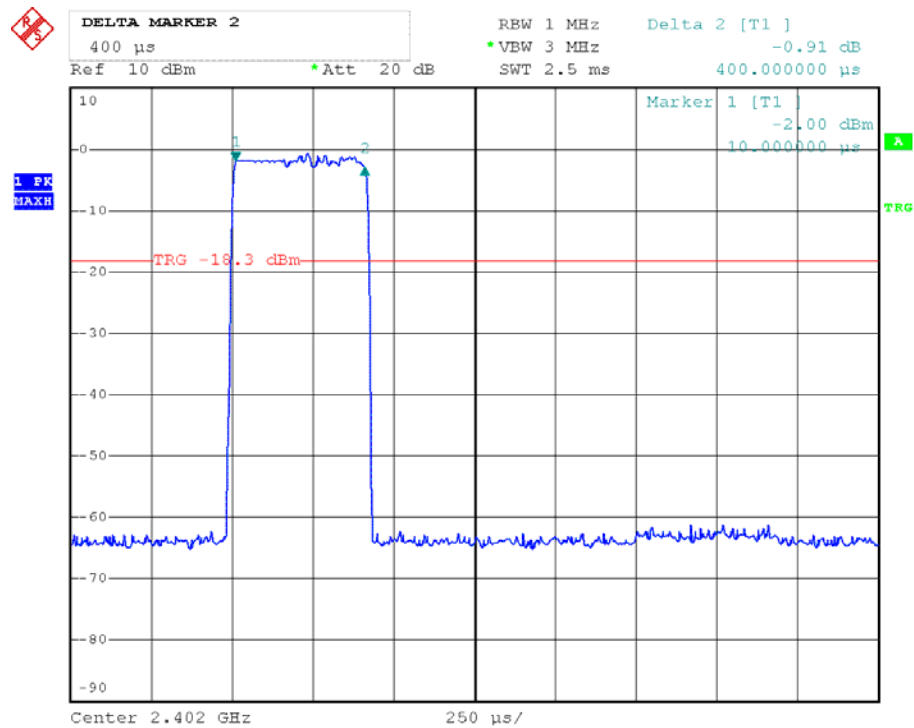
Channel Middle



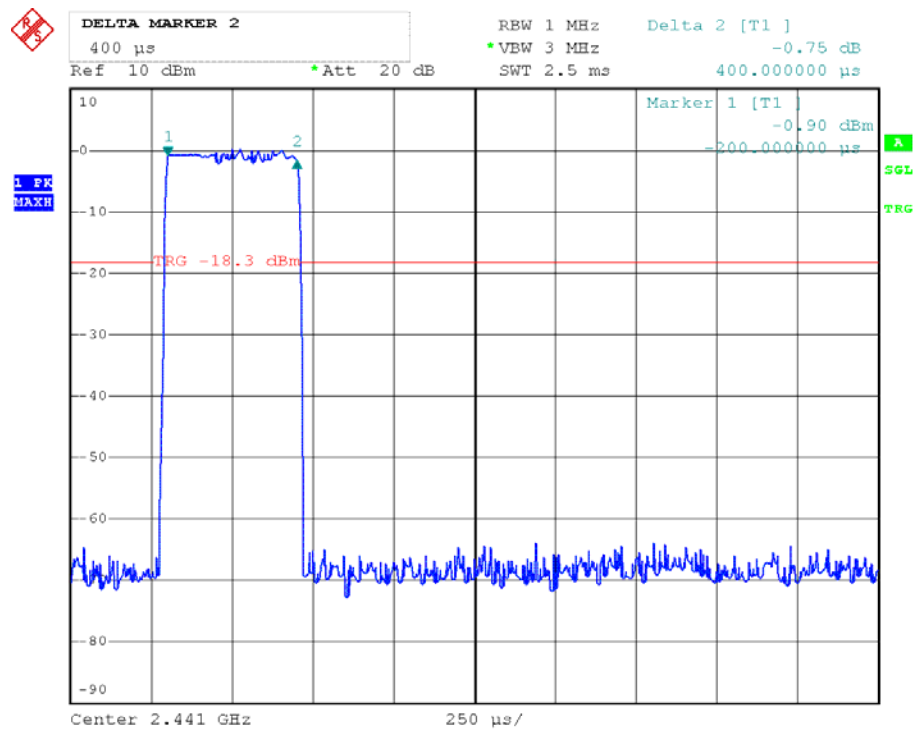
Channel High



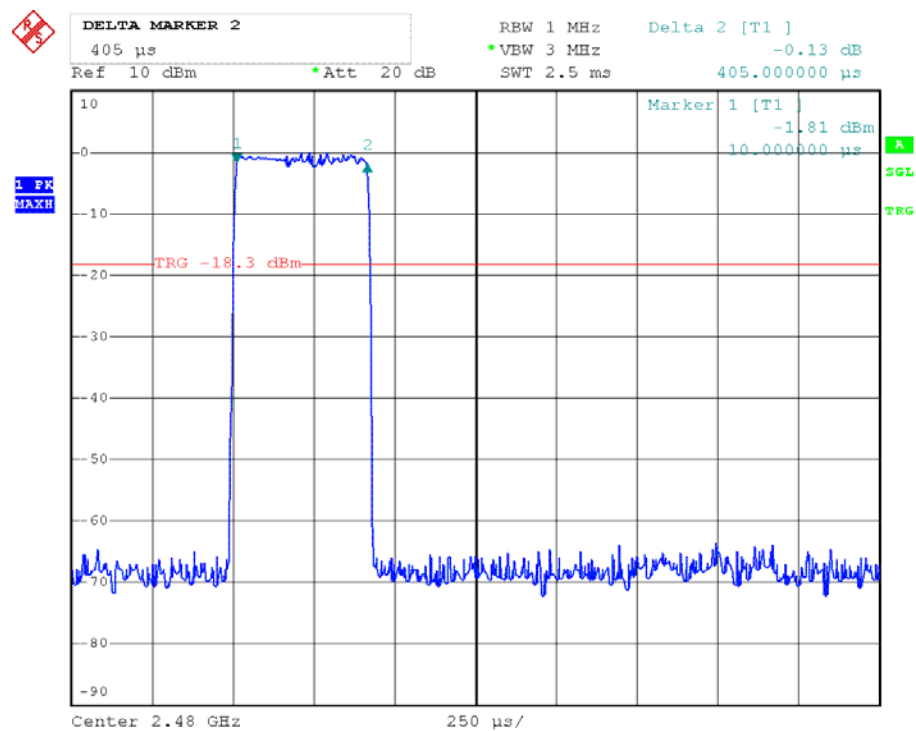
EDR 3M 3DH1
Channel Low



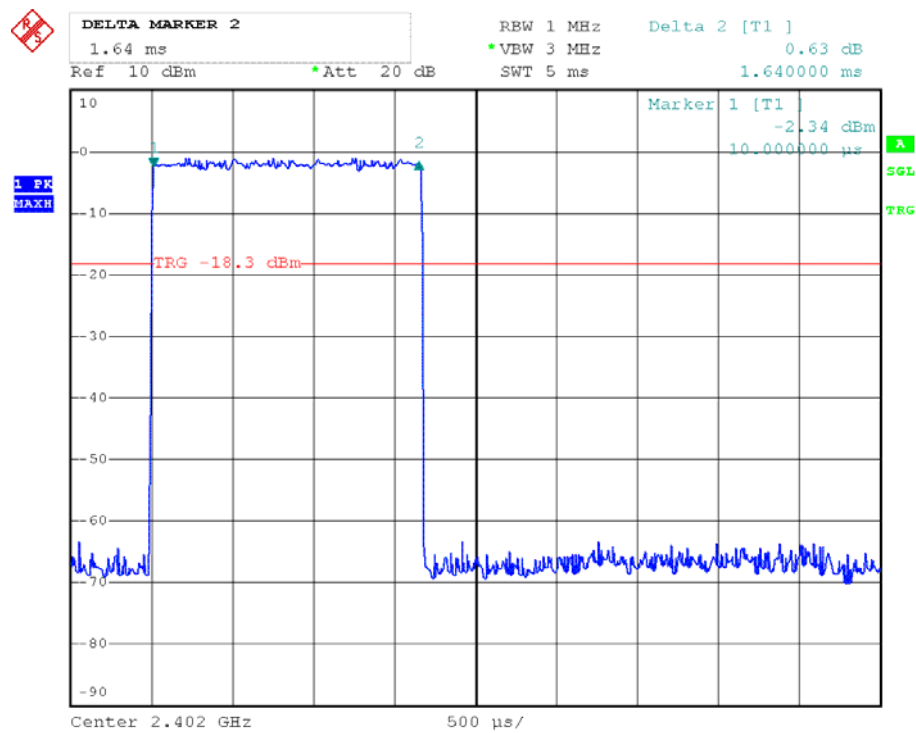
Channel Middle



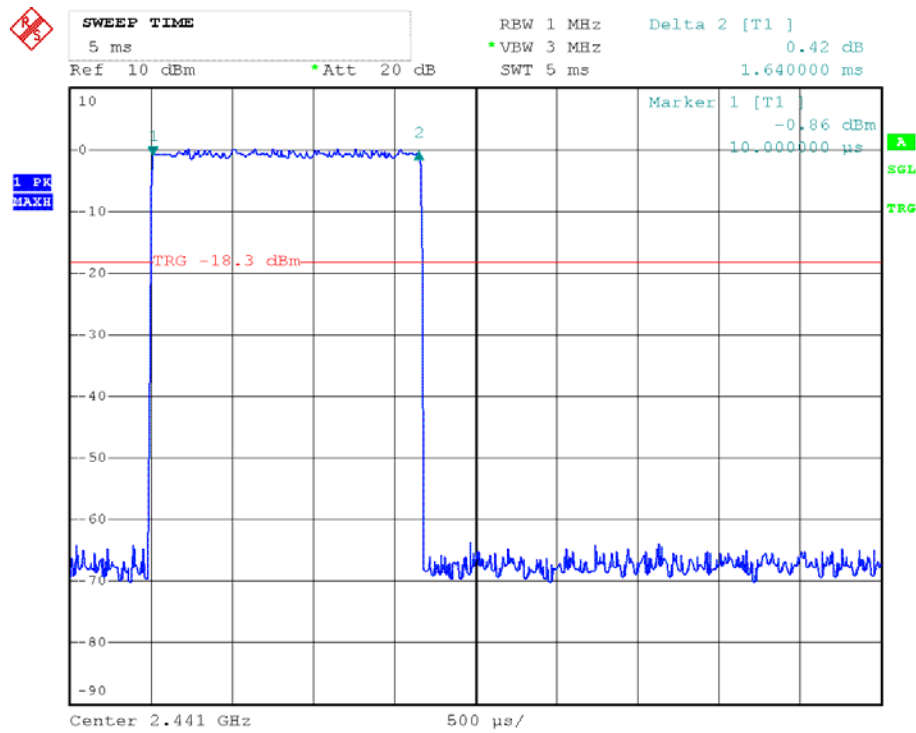
Channel High



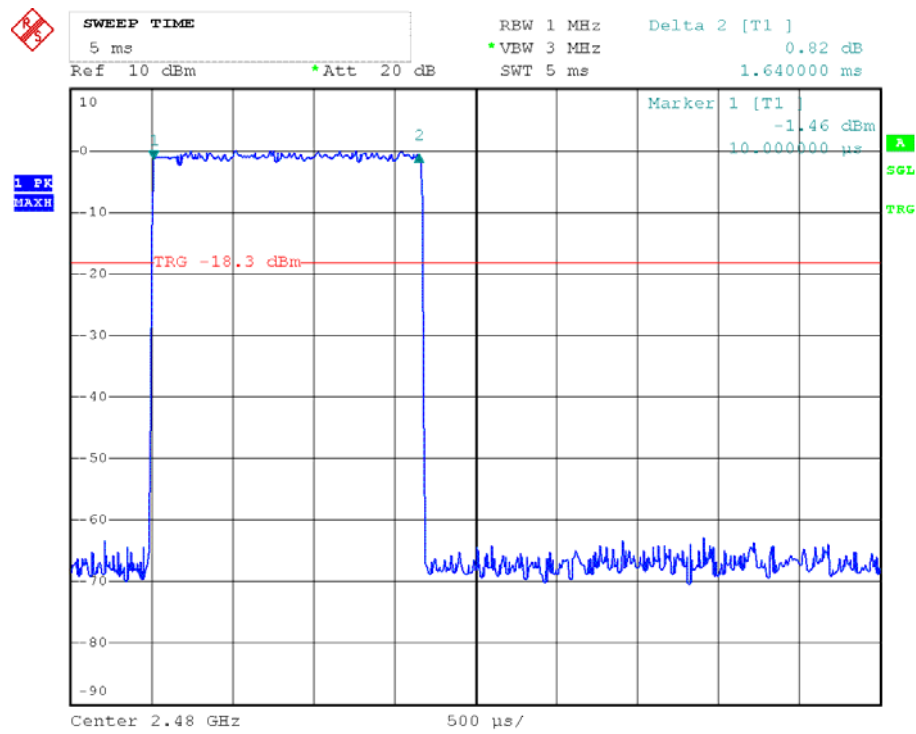
EDR 3M 3DH3
Channel Low



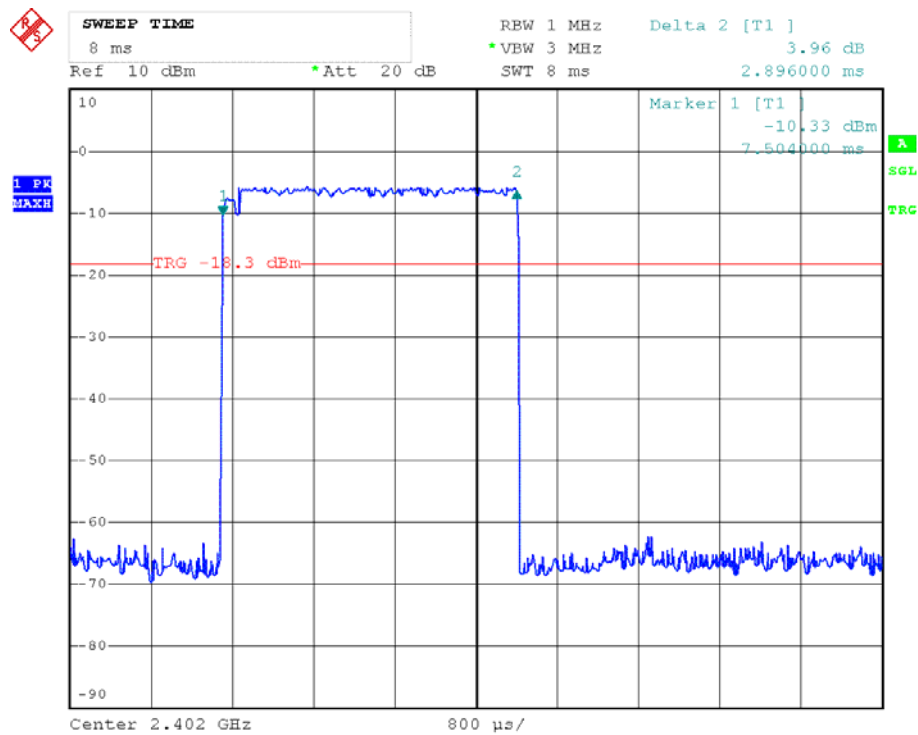
Channel Middle



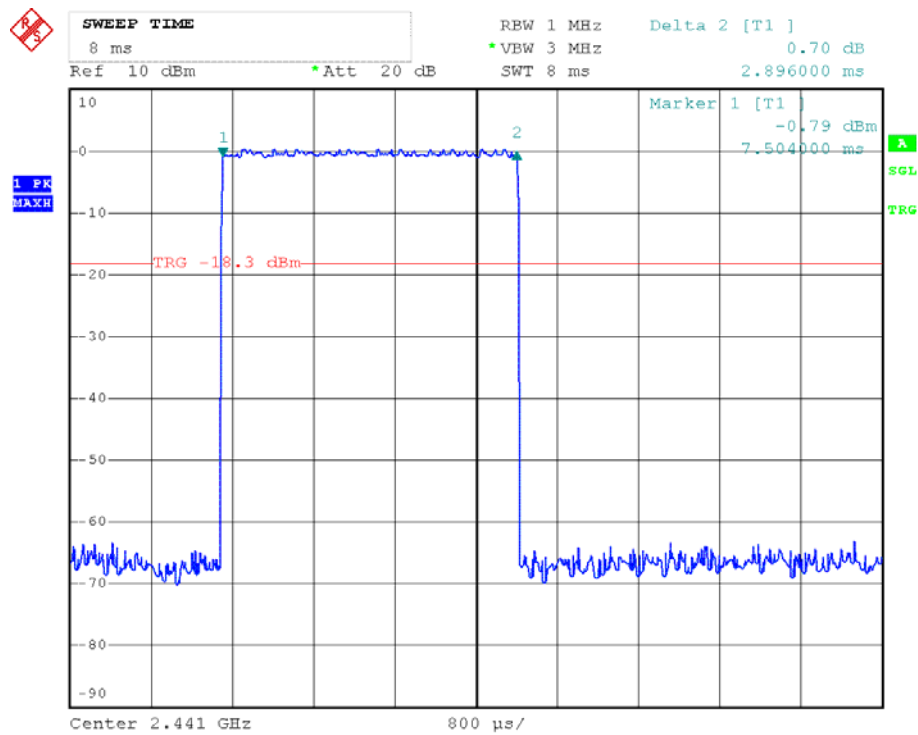
Channel High



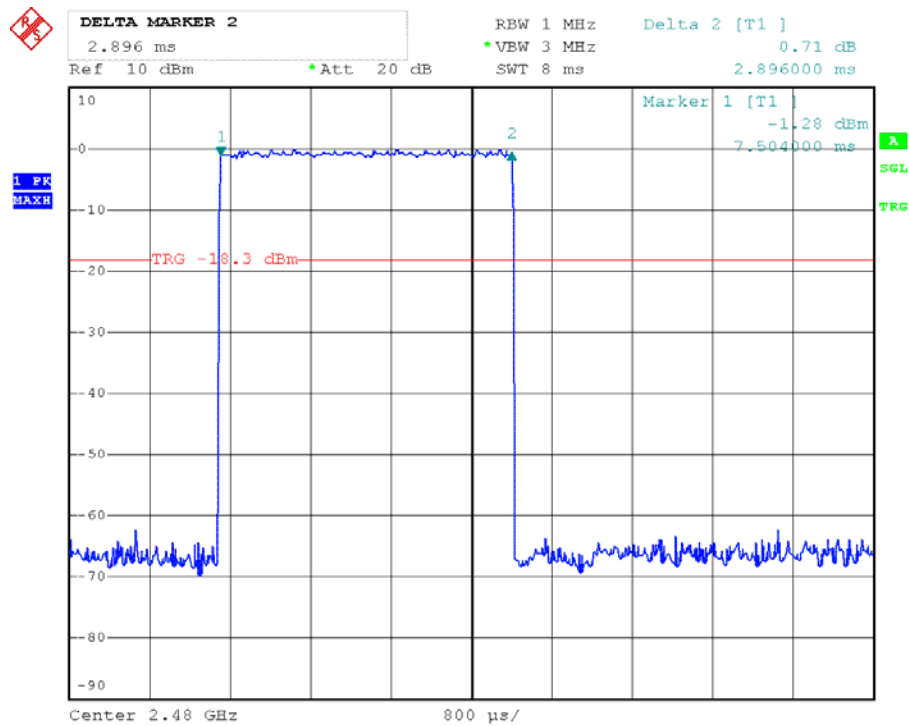
EDR 3M 3DH5
Channel Low



Channel Middle



Channel High

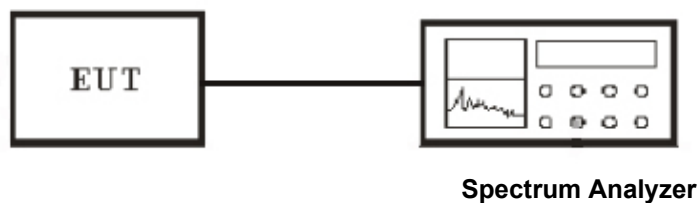


9. Test of Maximum Peak Output Power

9.1 Applicable Standard

Section 15.247(b)(1): For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels and The maximum peak output power shall not exceed 1 watt. For all other frequency hopping systems in this frequency band, The maximum peak output power shall not exceed 0.125 watt.

9.2 EUT Setup



9.3 Test Equipment List and Details

See section 2.5.

9.4 Test Procedure

1. The transmitter output was connected to the peak power meter and recorded the peak value.
2. Peak power meter parameter set to auto attenuator and filter is the same as.
3. Repeated the 1 for the middle and highest channel of the EUT.

9.5 Test Result

Temperature (°C) : 22~23	EUT: Splash ,Splash Trail Edition, Splash Rocket, Rocket
Humidity (%RH) : 50~54	M/N: ST
Barometric Pressure (mbar) : 950~1000	Operation Condition: Tx Mode

BDR 1M

Modulation Type	Channel No.	Frequency (MHz)	Output Power (dBm)	Limits (dBm)	Margin (dB)
GFSK	Low	2402.00	1.13	21	-24.65
GFSK	Middle	2441.00	2.15	21	-25.43
GFSK	High	2480.00	2.09	21	-26.72

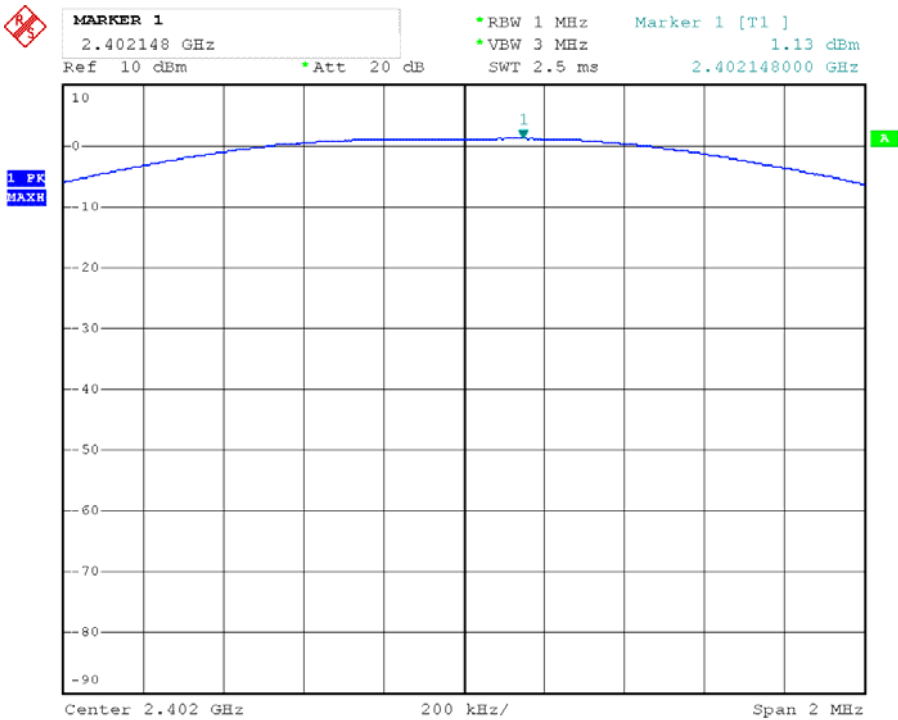
EDR 2M

Modulation Type	Channel No.	Frequency (MHz)	Output Power (dBm)	Limits (dBm)	Margin (dB)
Pi/4 DQPSK	Low	2402.00	-1.25	21	-24.87
Pi/4 DQPSK	Middle	2441.00	0.24	21	-25.32
Pi/4 DQPSK	High	2480.00	0.04	21	-26.75

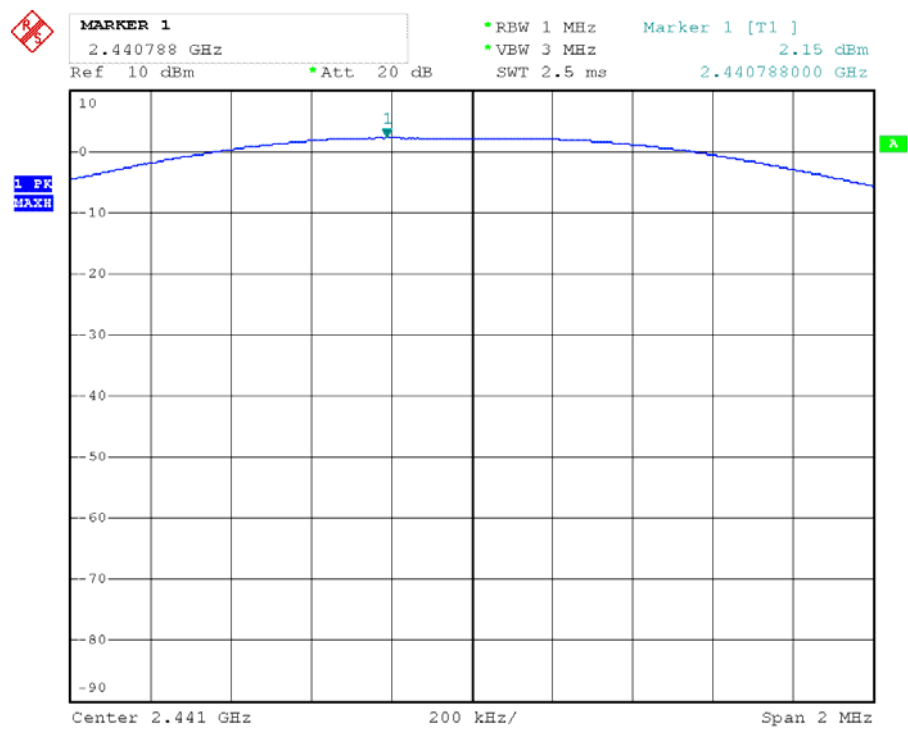
EDR 3M

Modulation Type	Channel No.	Frequency (MHz)	Output Power (dBm)	Limits (dBm)	Margin (dB)
8-DPSK	Low	2402.00	-0.98	21	-24.82
8-DPSK	Middle	2441.00	0.24	21	-25.25
8-DPSK	High	2480.00	0.27	21	-26.74

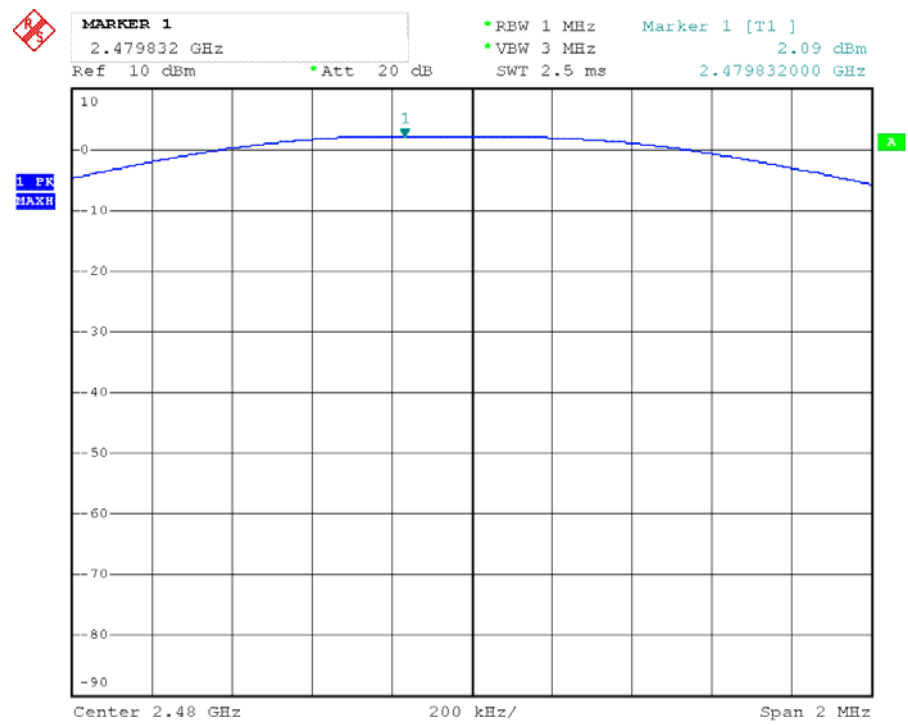
BDR 1M
Channel Low



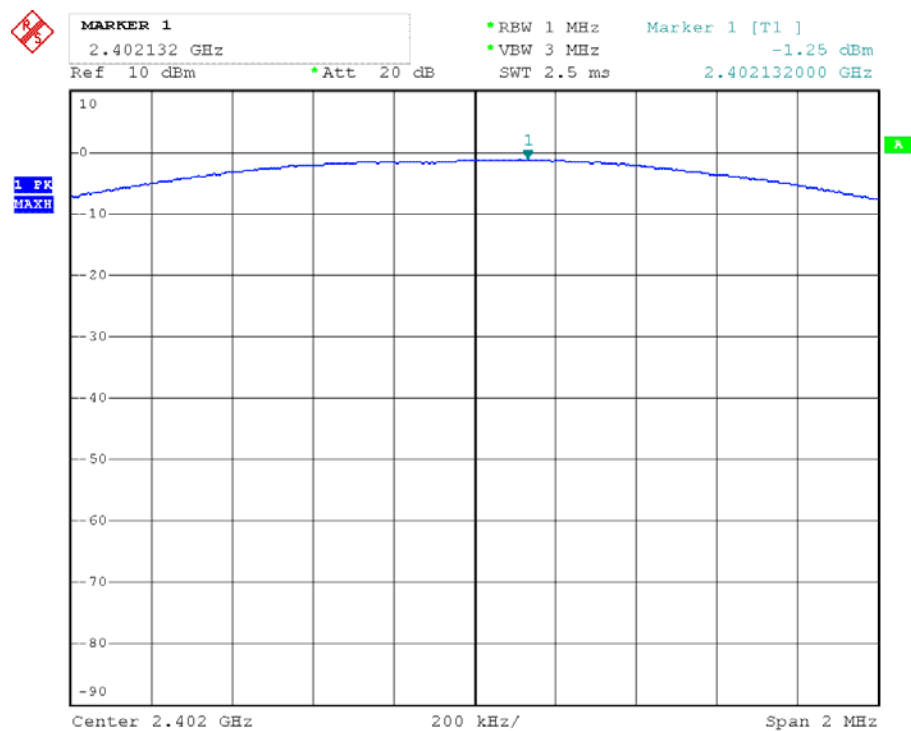
Channel Middle



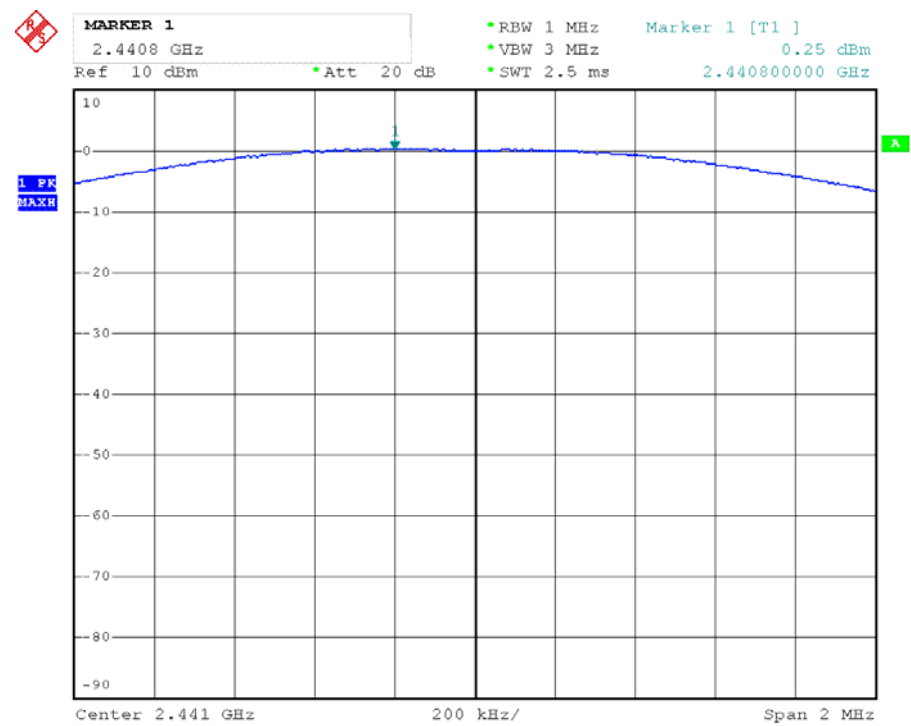
Channel High



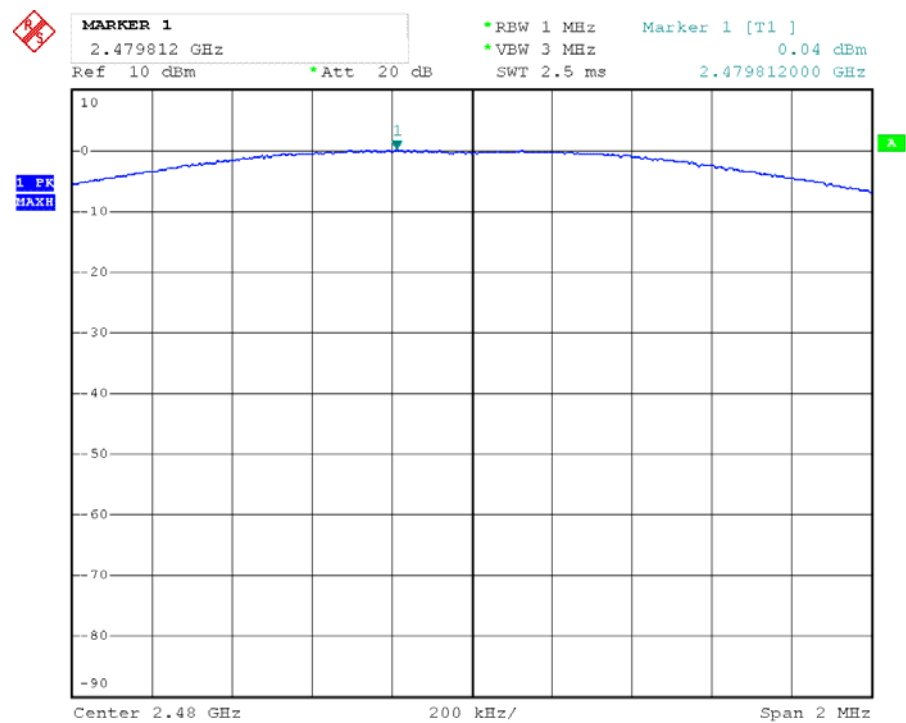
EDR 2M
Channel Low



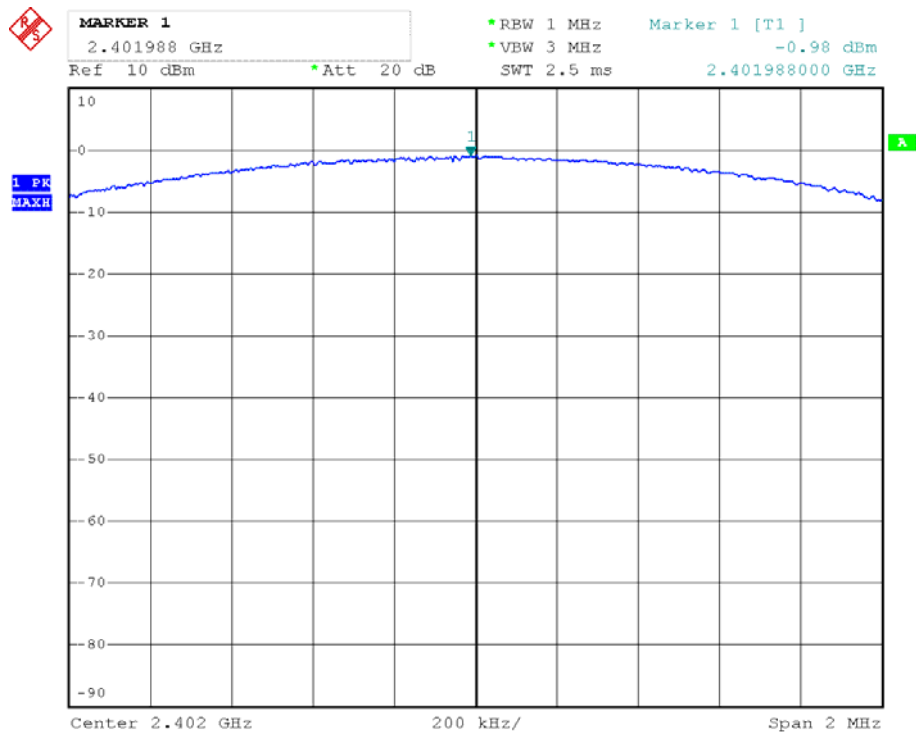
Channel Middle



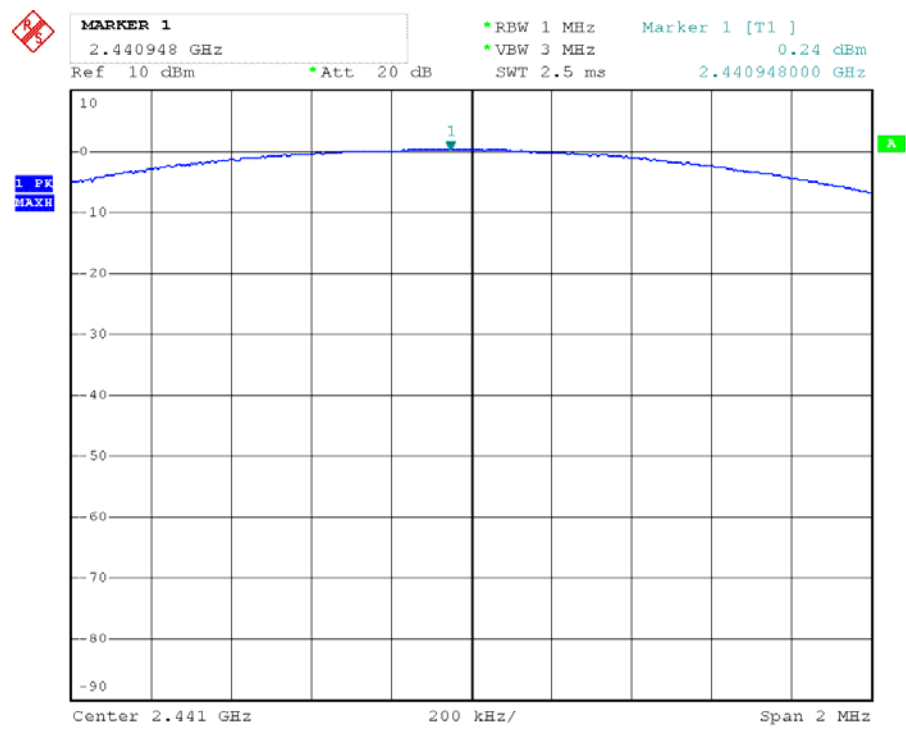
Channel High



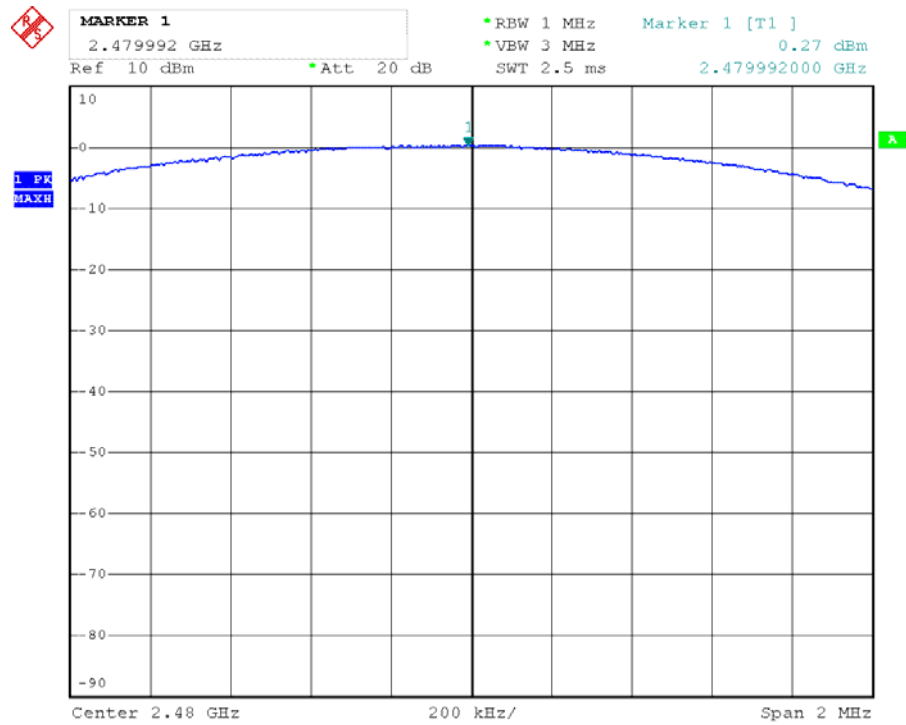
EDR 3M
Channel Low



Channel Middle



Channel High



10. Test of Band Edges Emission

10.1 Applicable Standard

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. In addition, radiated emissions that fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209.

10.2 EUT Setup

Radiated Measurement Setup

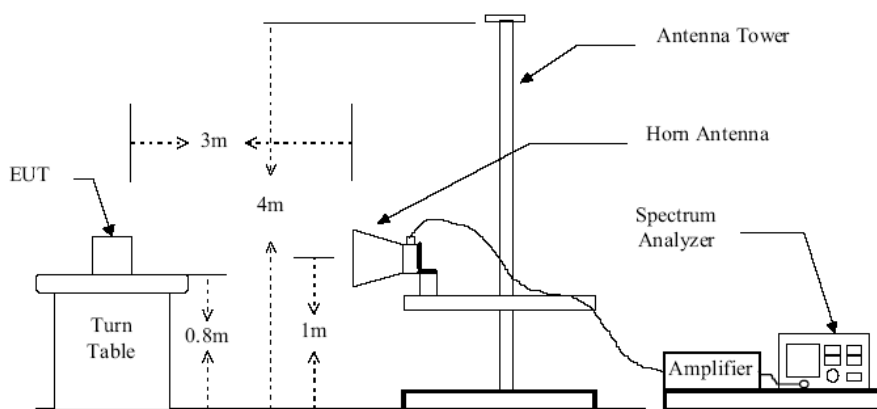
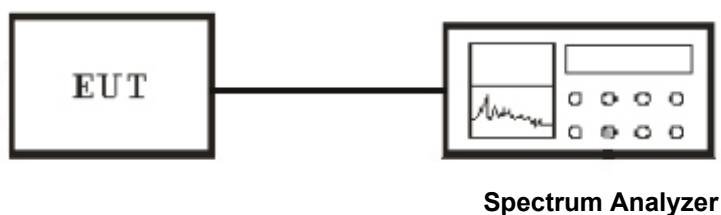


Figure 2 : Frequencies measured above 1 GHz configuration

Conducted Measurement Setup



10.3 Test Equipment List and Details

See section 2.5.

10.4 Test Procedure

Conducted Measurement

1. The transmitter is set to the lowest channel.
2. The transmitter output was connected to the spectrum analyzer via a cable .

3. Set both RBW and VBW of spectrum analyzer to 100KHz with convenient frequency span including 100MHz bandwidth from lower band edge. Then detector set to peak and max hold this trace.
4. The lowest band edges emission was measured and recorded.
5. The transmitter set to the highest channel and repeated 2~4.

Radiated Measurement

1. Configure the EUT according to ANSI C63.4-2003
2. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emission field strength of both horizontal and vertical polarization.
4. For band edge emission, the antenna tower was scan (from 1 M to 4 M) and then the turn table was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. For band edge emission, use 1MHz VBW and 1MHz RBW for reading under AV and use 1MHz VBW and 1MHz RBW for reading under PK.

10.5 Test Result

Temperature (°C) : 22~23	EUT: Splash ,Splash Trail Edition, Splash Rocket, Rocket
Humidity (%RH) : 50~54	M/N: ST
Barometric Pressure (mbar) : 950~1000	Operation Condition: Tx Mode

Radiated Test Result

Worst Case BDR 1M

Frequency (MHz)	Antenna Polarization	Emission Read Value (dBμV/m)	Limits (dBμV/m)
2389.5	H	30.23	54
2389.5	V	32.49	54
2483.7	H	31.66	54
2483.7	V	32.58	54

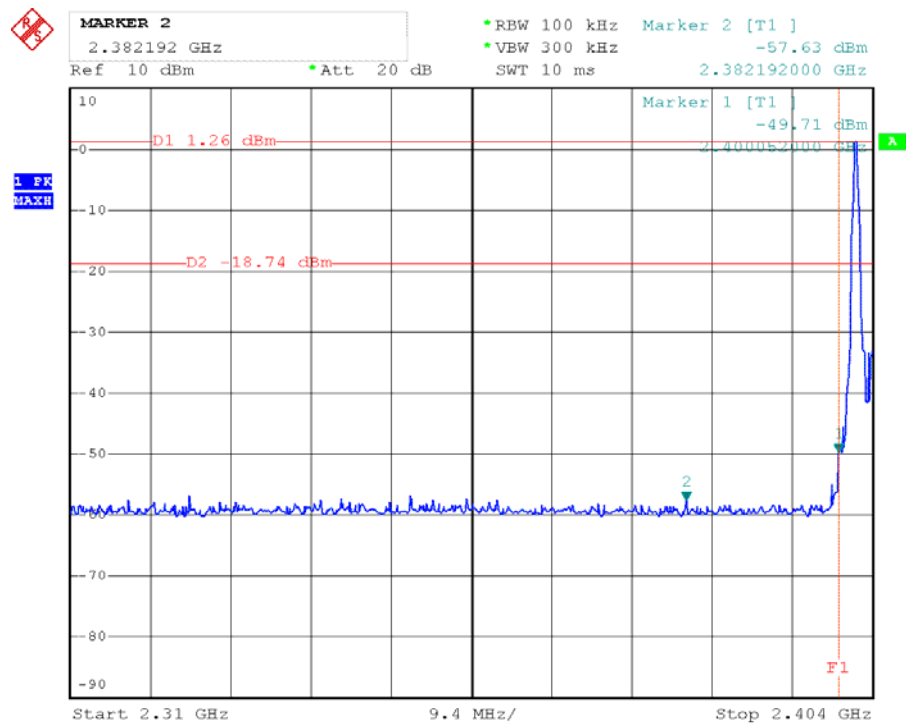
Worst Case EDR 2M

Frequency (MHz)	Antenna Polarization	Emission Read Value (dBμV/m)	Limits (dBμV/m)
2389.4	H	31.32	54
2389.4	V	32.68	54
2483.7	H	31.54	54
2483.7	V	33.85	54

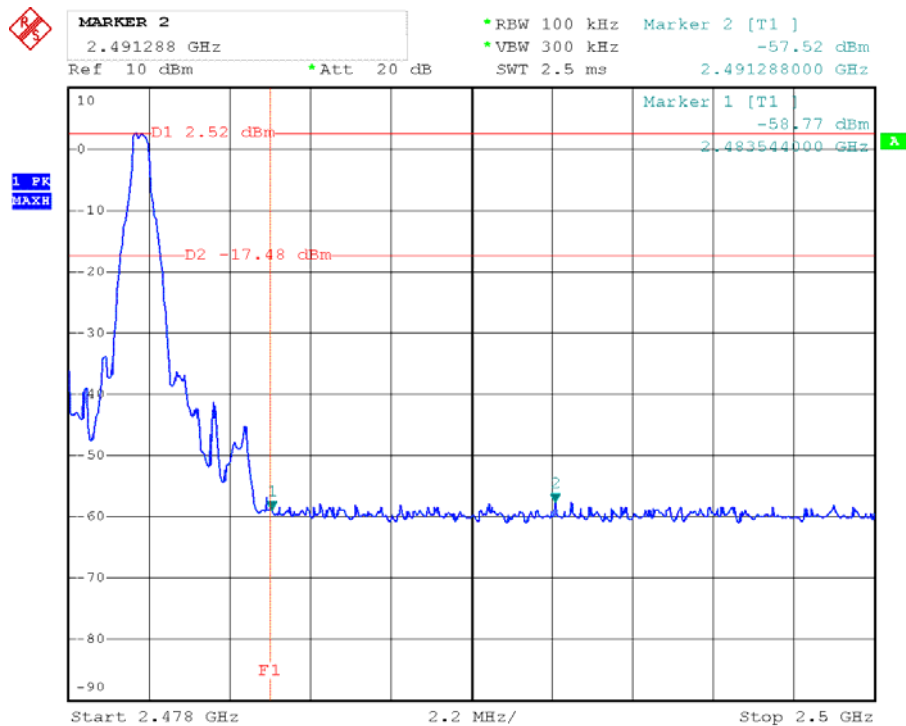
Worst Case EDR 3M

Frequency (MHz)	Antenna Polarization	Emission Read Value (dB μ V/m)	Limits (dB μ V/m)
2389.5	H	31.52	54
2389.5	V	33.69	54
2483.6	H	31.78	54
2483.6	V	33.38	54

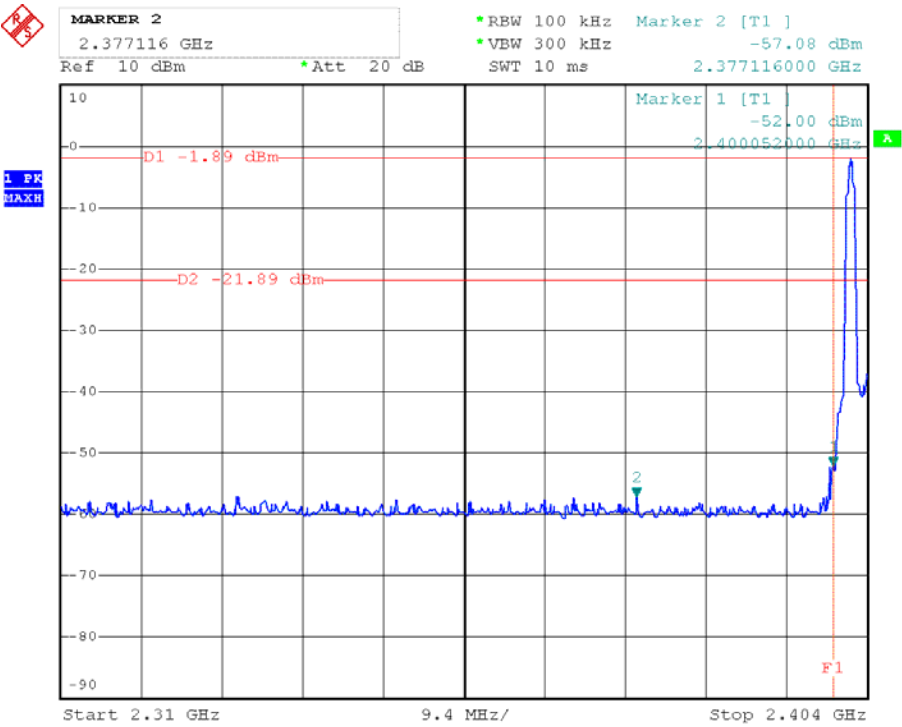
Conducted Test Result
BDR 1M
Low Channel



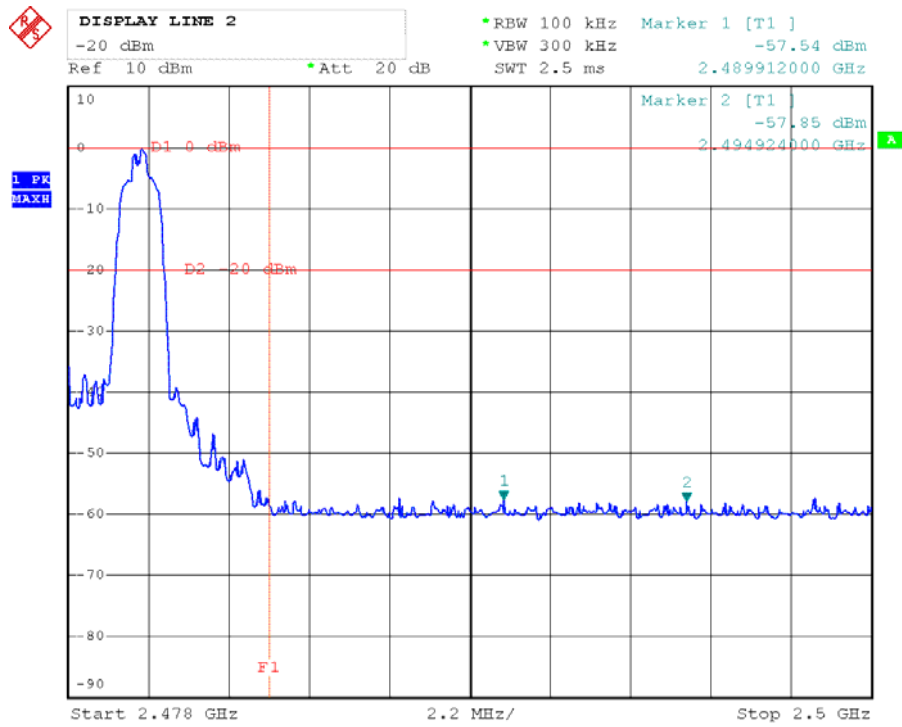
High Channel



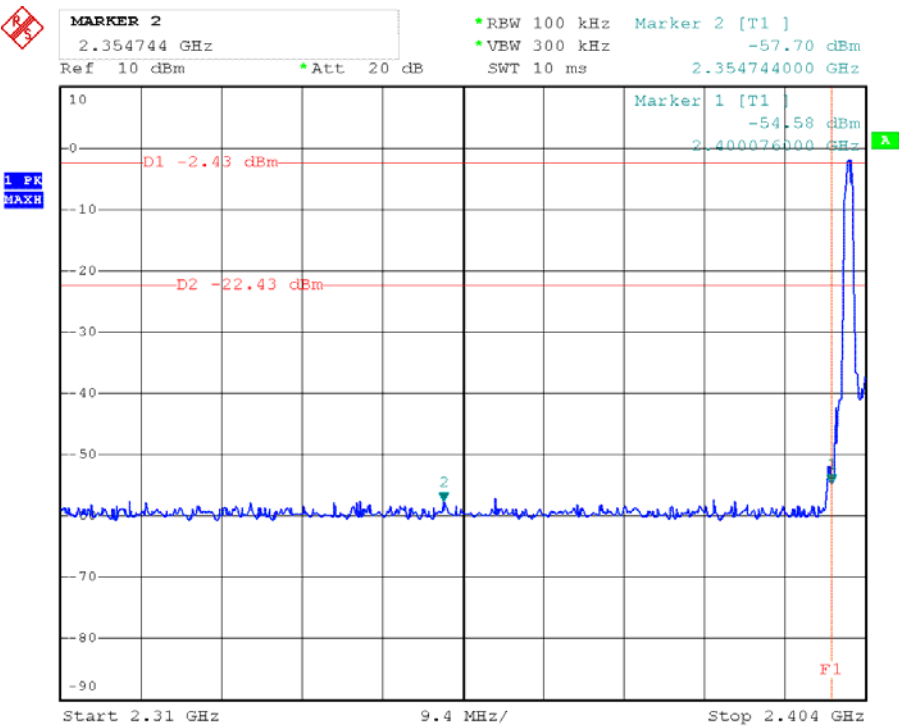
EDR 2M
Low Channel



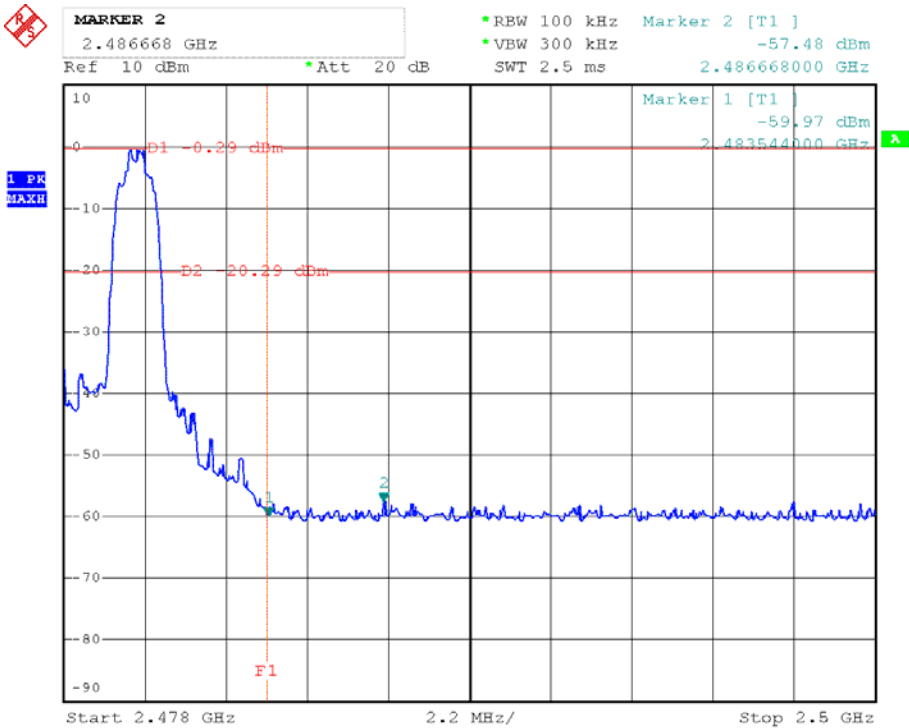
High Channel



EDR 3M
Low Channel



High Channel



Low



High



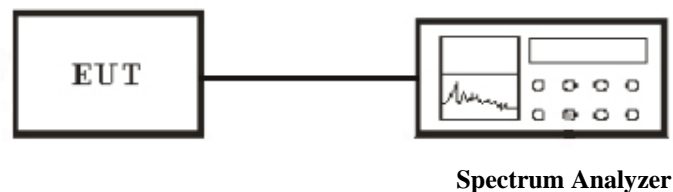
11. Test of Spurious Radiated Emission

11.1 Applicable Standard

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. In addition, radiated emissions that fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209.

11.2 EUT Setup

Conducted Measurement Setup



Radiated Measurement Setup

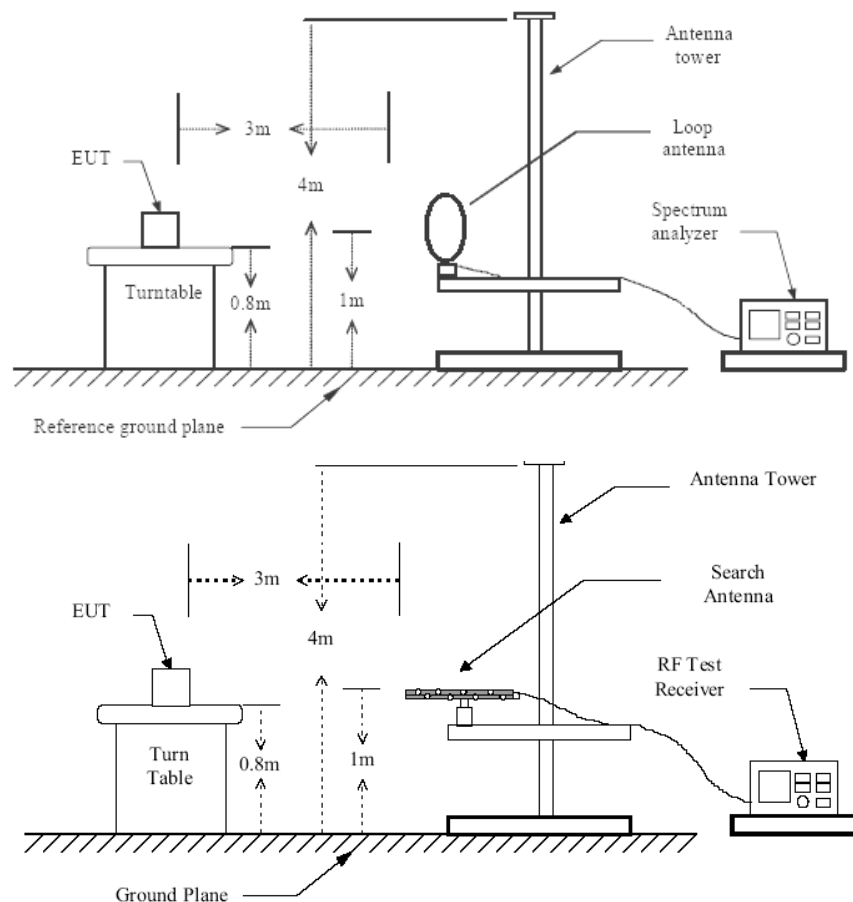


Figure 1 : Frequencies measured below 1 GHz configuration

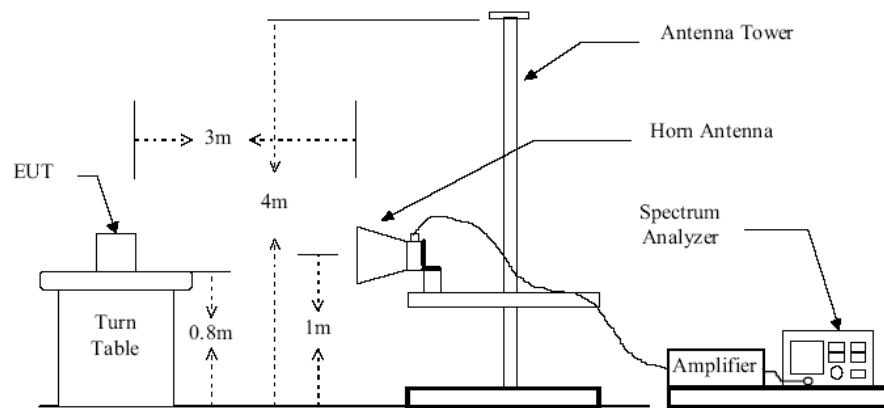


Figure 2 : Frequencies measured above 1 GHz configuration

11.3 Test Equipment List and Details

See section 2.5.

11.4 Test Procedure

Conducted Measurement

1. For emission above 1GHz to 26G,conducted measurement method is used.
2. The transmitter is set to the lowest channel.
3. The transmitter output was connected to the spectrum analyzer via a cable and cable loss is used as the offset of the spectrum analyzer.
4. Set RBW to 1 MHz and VBW to 3 MHz, Then detector set to peak and max hold this trace.
5. The lowest band edges emission was measured and recorded.
6. The transmitter set to the highest channel and repeated 2~4.

Radiated Measurement

1. Configure the EUT according to ANSI C63.4-2003
2. The EUT was placed on the top of the turntable 0.8 meter above ground.
3. Receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable. When the frequency spectrum measured started from 9 kHz to 30 MHz, a loop antenna is used. When the frequency spectrum measured started from 30 MHz to 1000 MHz and above 1000 MHz, a broadband receiving antenna and the horn antenna are used.
4. Power on the EUT and all the supporting units.
5. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
6. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emission field strength of both horizontal and vertical polarization.
7. For each suspected emission, the antenna tower was scanned (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.

8. According to the characteristic of the EUT crystals, the range of frequencies was investigated from 9KHz to 30MHz, 30MHz to 1GHz and 1GHz to 26GHz.

9. For emission below 1GHz, Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.

10. For emission above 1GHz, Set the RBW=1MHz,VBW=3MHz for Peak Detector while the RBW=1MHz, VBW=10Hz for Average Detector, Readings are both peak and average values.

11. The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos. The worst case data is recorded in the report. All emission not reported are much lower than the prescribed limits.

11.5 Test Result

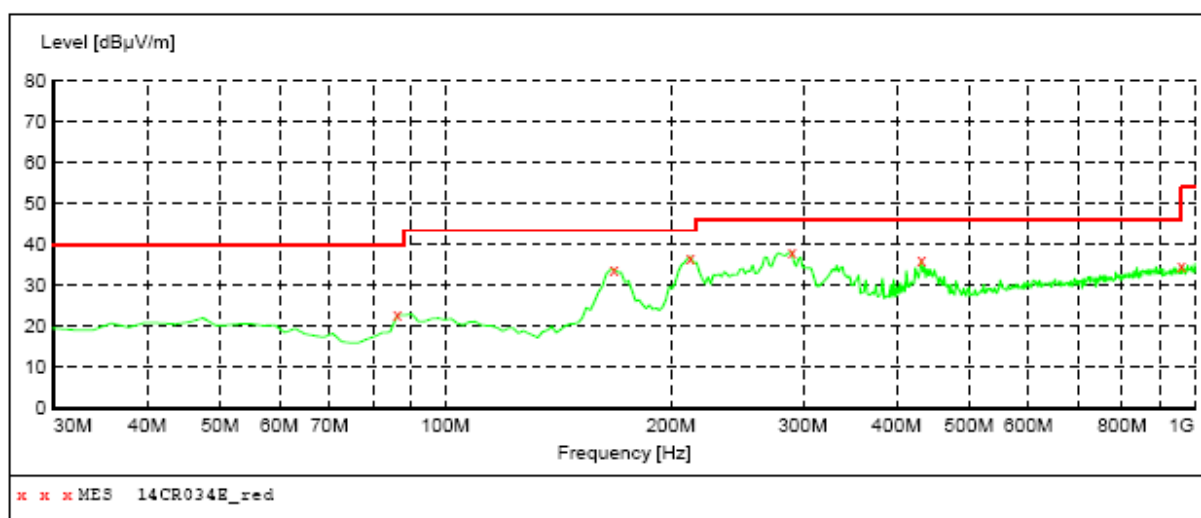
Temperature (°C) : 22~23	EUT: Splash ,Splash Trail Edition, Splash Rocket, Rocket
Humidity (%RH) : 50~54	M/N: ST
Barometric Pressure (mbar) : 950~1000	Operation Condition: TX Mode

The worst Spurious Emission Data BDR Mode Below 1GHz Channel Low:

EUT: Splash ,Splash Trail Edition, Splash Rocket, Rocket
M/N: ST
Operating Condition: TX Mode
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: DC 3.7V from battery
Comment: Polarization: Horizontal

SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW



MEASUREMENT RESULT: "14CR034E_red"

3/6/2014 09:09

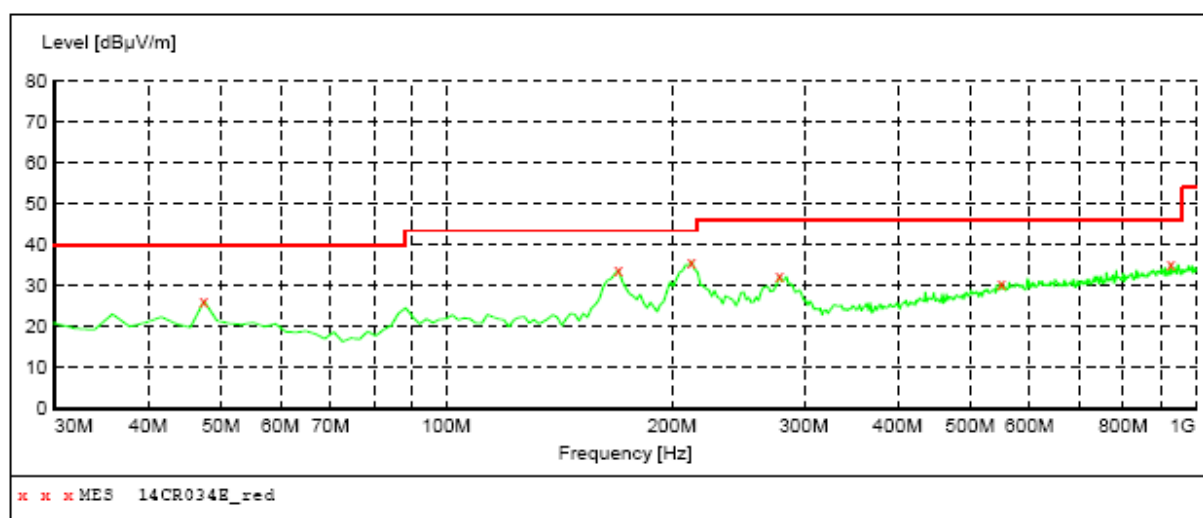
Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
86.260000	22.80	14.8	40.0	17.2	QP	100.0	0.00	HORIZONTAL
167.740000	34.00	13.0	43.5	9.5	QP	100.0	0.00	HORIZONTAL
212.360000	37.00	15.1	43.5	6.5	QP	100.0	0.00	HORIZONTAL
289.960000	38.20	18.4	46.0	7.8	QP	100.0	0.00	HORIZONTAL
431.580000	36.10	22.0	46.0	9.9	QP	100.0	0.00	HORIZONTAL
959.260000	34.70	29.6	46.0	11.3	QP	100.0	0.00	HORIZONTAL

The worst Spurious Emission Data BDR Mode Below 1GHz Channel Low:

EUT: Splash ,Splash Trail Edition, Splash Rocket, Rocket
M/N: ST
Operating Condition: TX Mode
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: DC 3.7V from battery
Comment: Polarization: Vertical

SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW



MEASUREMENT RESULT: "14CR034E_red"

3/6/2014 09:07

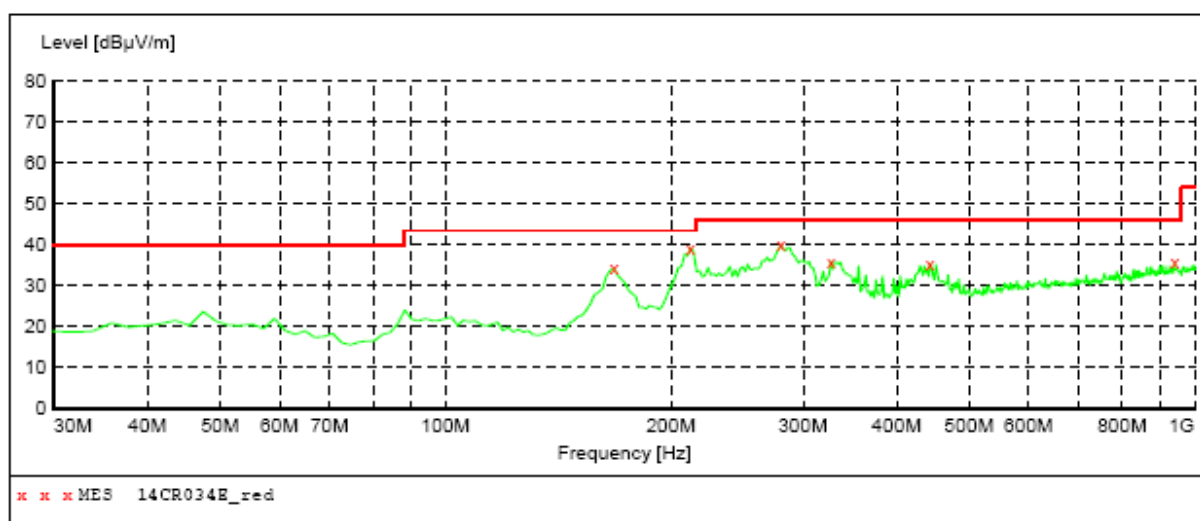
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	26.30	15.8	40.0	13.7	QP	100.0	0.00	VERTICAL
169.680000	33.80	13.1	43.5	9.7	QP	100.0	0.00	VERTICAL
212.360000	36.00	15.1	43.5	7.5	QP	100.0	0.00	VERTICAL
278.320000	32.40	18.1	46.0	13.6	QP	100.0	0.00	VERTICAL
549.920000	30.70	25.0	46.0	15.3	QP	100.0	0.00	VERTICAL
926.280000	35.40	29.4	46.0	10.6	QP	100.0	0.00	VERTICAL

The worst Spurious Emission Data BDR Mode Below 1GHz Channel Middle:

EUT: Splash ,Splash Trail Edition, Splash Rocket, Rocket
M/N: ST
Operating Condition: TX Mode
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: DC 3.7V from battery
Comment: Polarization: Horizontal

SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW



MEASUREMENT RESULT: "14CR034E_red"

3/6/2014 09:12

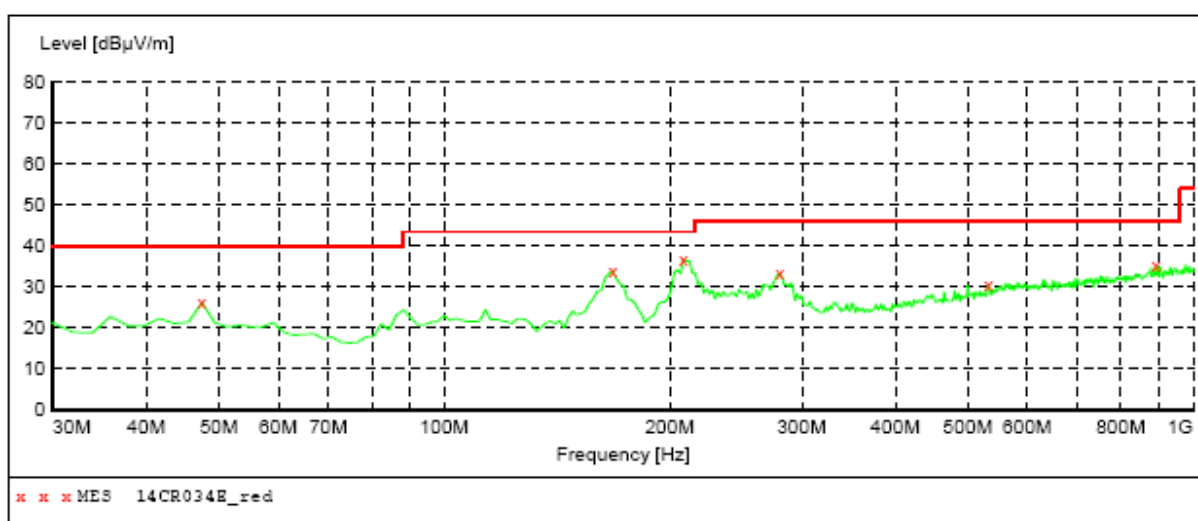
Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
167.740000	34.30	13.0	43.5	9.2	QP	100.0	0.00	HORIZONTAL
212.360000	39.30	15.1	43.5	4.2	QP	100.0	0.00	HORIZONTAL
280.260000	39.90	18.2	46.0	6.1	QP	100.0	0.00	HORIZONTAL
326.820000	36.00	19.5	46.0	10.0	QP	100.0	0.00	HORIZONTAL
443.220000	35.40	22.1	46.0	10.6	QP	100.0	0.00	HORIZONTAL
939.860000	35.80	29.5	46.0	10.2	QP	100.0	0.00	HORIZONTAL

The worst Spurious Emission Data BDR Mode Below 1GHz Channel Middle:

EUT: Splash ,Splash Trail Edition, Splash Rocket, Rocket
M/N: ST
Operating Condition: TX Mode
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: DC 3.7V from battery
Comment: Polarization: Vertical

SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW



MEASUREMENT RESULT: "14CR034E_red"

3/6/2014 09:14

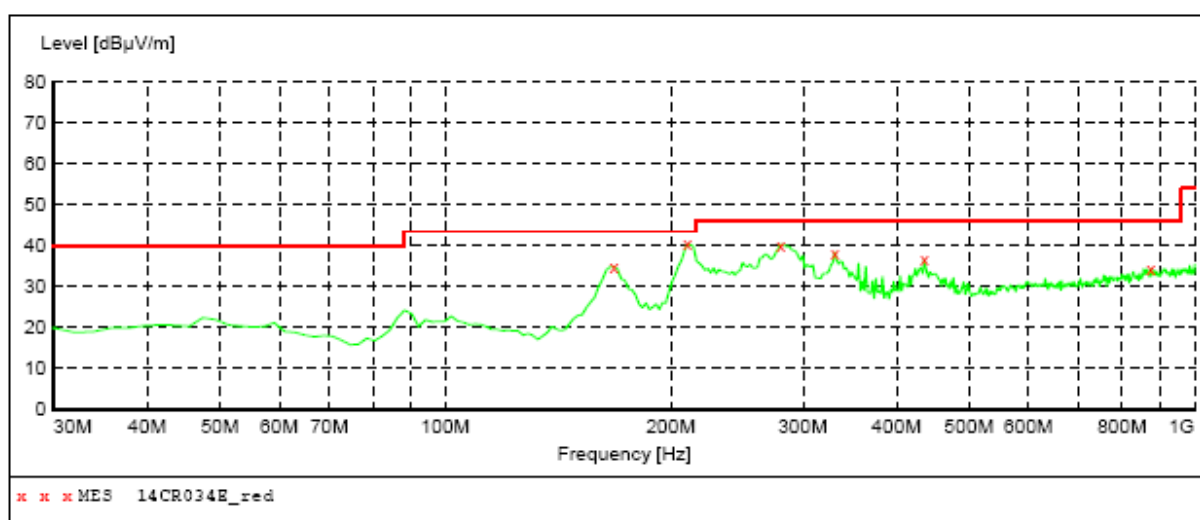
Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	26.20	15.8	40.0	13.8	QP	100.0	0.00	VERTICAL
167.740000	33.90	13.0	43.5	9.6	QP	100.0	0.00	VERTICAL
208.480000	36.80	15.1	43.5	6.7	QP	100.0	0.00	VERTICAL
280.260000	33.20	18.2	46.0	12.8	QP	100.0	0.00	VERTICAL
532.460000	30.70	24.6	46.0	15.3	QP	100.0	0.00	VERTICAL
891.360000	35.30	29.1	46.0	10.7	QP	100.0	0.00	VERTICAL

The worst Spurious Emission Data BDR Mode Below 1GHz Channel High:

EUT: Splash ,Splash Trail Edition, Splash Rocket, Rocket
M/N: ST
Operating Condition: TX Mode
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: DC 3.7V from battery
Comment: Polarization: Horizontal

SWEEP TABLE: "test (30M-1G) "

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency				
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW



MEASUREMENT RESULT: "14CR034E_red"

3/6/2014 09:17

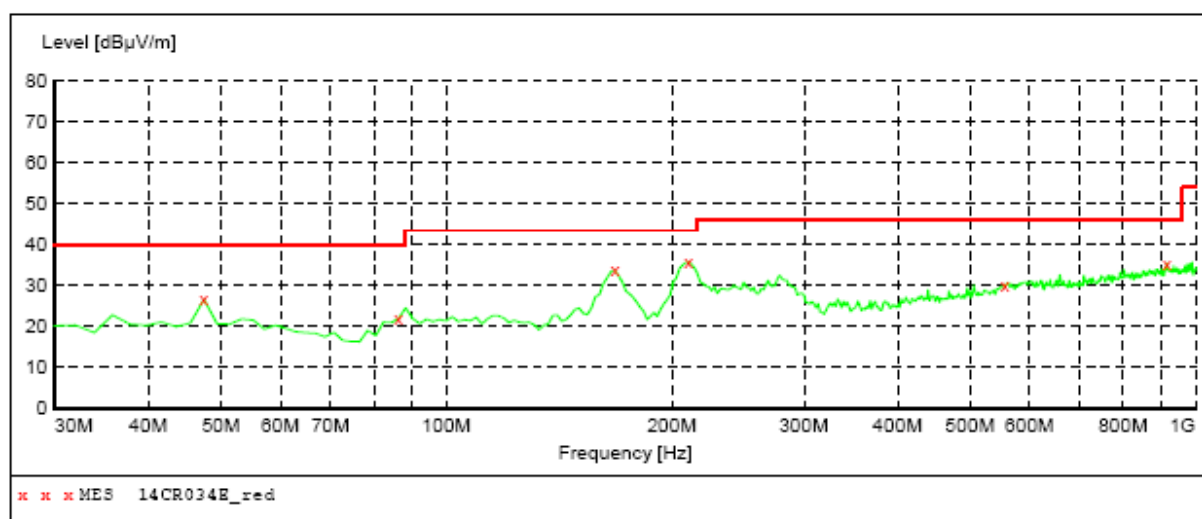
Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
167.740000	34.90	13.0	43.5	8.6	QP	100.0	0.00	HORIZONTAL
210.420000	40.40	15.1	43.5	3.1	QP	100.0	0.00	HORIZONTAL
280.260000	40.30	18.2	46.0	5.7	QP	100.0	0.00	HORIZONTAL
330.700000	38.30	19.7	46.0	7.7	QP	100.0	0.00	HORIZONTAL
435.460000	36.60	22.1	46.0	9.4	QP	100.0	0.00	HORIZONTAL
873.900000	34.40	28.9	46.0	11.6	QP	100.0	0.00	HORIZONTAL

The worst Spurious Emission Data BDR Mode Below 1GHz Channel High:

EUT: Splash ,Splash Trail Edition, Splash Rocket, Rocket
M/N: ST
Operating Condition: TX Mode
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: DC 3.7V from battery
Comment: Polarization: Vertical

SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW



MEASUREMENT RESULT: "14CR034E_red"

3/6/2014 09:16

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	26.60	15.8	40.0	13.4	QP	100.0	0.00	VERTICAL
86.260000	21.90	14.8	40.0	18.1	QP	100.0	0.00	VERTICAL
167.740000	33.80	13.0	43.5	9.7	QP	100.0	0.00	VERTICAL
210.420000	35.90	15.1	43.5	7.6	QP	100.0	0.00	VERTICAL
555.740000	30.10	25.1	46.0	15.9	QP	100.0	0.00	VERTICAL
914.640000	35.50	29.3	46.0	10.5	QP	100.0	0.00	VERTICAL

The worst Spurious Emission Data BDR Mode Above 1GHz

Channel Low

Channel Low (2402MHz)								
Maximum Frequency (MHz)	Polarity and Level					Limit (dBμV/m)	Margin (dBμV/m)	Mark (P/Q/A)
	Polarity	Height (m)	Reading dBμV	Transd	Result dBμV/m			
2402	H	1	98.52	-7.15	91.37	N/A	N/A	P
			90.36	-7.15	83.21	N/A	N/A	A
2402	V	1	105.33	-7.15	98.18	N/A	N/A	P
			96.37	-7.15	89.22	N/A	N/A	A
4804	H	1	41.38	1.07	42.45	74	-31.55	P
			31.25	1.07	32.32	54	-21.68	A
4804	V	1	42.83	1.07	43.9	74	-30.1	P
			32.45	1.07	33.52	54	-20.48	A
7206	H	1	40.59	7.38	47.97	74	-26.03	P
			31.85	7.38	39.23	54	-14.77	A
7206	V	1	43.58	7.38	50.96	74	-23.04	P
			32.33	7.38	39.71	54	-14.29	A
9608	H	1	40.89	10.29	51.18	74	-22.82	P
			30.67	10.29	40.96	54	-13.04	A
9608	V	1	42.59	7.38	49.97	74	-24.03	P
			32.85	7.38	40.23	54	-13.77	A
12023.31	H	1	41.58	14.01	55.59	74	-18.41	P
			31.33	14.01	45.34	54	-8.66	A
12023.33	V	1	42.85	14.01	56.86	74	-17.14	P
			32.58	14.01	46.59	54	-7.41	A
25220.37	----	----	----	----	----	----	----	----
Remark: 1. Transd.=Antenna Factor+Cable Loss-Pre-amplifier Margin = Level-Limit Mark: P means Peak Value, Q means Quasi Peak Value, A means Average Value 2. Data of measurement within this frequency range shown “-” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured. 3. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz. 4. The test limit distance is 3m limit								

Channel Mid

Channel Middle (2441MHz)								
Maximum Frequency	Polarity and Level					Limit	Margin	Mark
(MHz)	Polarity	Height (m)	Reading dBμV	Transd	Result dBμV/m	(dBμV/m)	(dBμV/m)	(P/Q/A)
2441	H	1	99.54	-6.37	93.17	N/A	N/A	P
			91.37	-6.37	85	N/A	N/A	A
2441	V	1	104.35	-6.37	97.98	N/A	N/A	P
			95.88	-6.37	89.51	N/A	N/A	A
4882	H	1	40.25	1.07	41.32	74	-32.68	P
			30.84	1.07	31.91	54	-22.09	A
4882	V	1	42.54	1.07	43.61	74	-30.39	P
			32.33	1.07	33.4	54	-20.6	A
7323	H	1	41.39	7.49	48.88	74	-25.12	P
			31.54	7.49	39.03	54	-14.97	A
7323	V	1	43.58	7.49	51.07	74	-22.93	P
			32.28	7.49	39.77	54	-14.23	A
9764	H	1	41.24	10.47	51.71	74	-22.29	P
			30.36	10.47	40.83	54	-13.17	A
9764	V	1	42.78	10.47	53.25	74	-20.75	P
			32.84	10.47	43.31	54	-10.69	A
12168.22	H	1	41.15	14.1	55.25	74	-18.75	P
			30.75	14.1	44.85	54	-9.15	A
12168.22	V	1	43.64	14.1	57.74	74	-16.26	P
			31.38	14.1	45.48	54	-8.52	A
25380.37	----	----	----	----	----	----	----	----
Remark: 1. Transd.=Antenna Factor+Cable Loss-Pre-amplifier Margin = Level-Limit Mark: P means Peak Value, Q means Quasi Peak Value, A means Average Value 2. Data of measurement within this frequency range shown “-” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured. 3. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz. 4. The test limit distance is 3m limit								

Channel High

Channel High (2480MHz)								
Maximum Frequency	Polarity and Level					Limit	Margin	Mark
(MHz)	Polarity	Height (m)	Reading dBμV	Transd	Result dBμV/m	(dBμV/m)	(dBμV/m)	(P/Q/A)
2480	H	1	98.54	-6.05	92.49	N/A	N/A	P
			90.75	-6.05	84.7	N/A	N/A	A
2480	V	1	102.88	-6.05	96.83	N/A	N/A	P
			93.45	-6.05	87.4	N/A	N/A	A
4960	H	1	40.59	1.07	41.66	74	-32.34	P
			31.25	1.07	32.32	54	-21.68	A
4960	V	1	43.45	1.07	44.52	74	-29.48	P
			32.57	1.07	33.64	54	-20.36	A
7440	H	1	40.85	7.61	48.46	74	-25.54	P
			30.84	7.61	38.45	54	-15.55	A
7440	V	1	42.58	7.61	50.19	74	-23.81	P
			32.79	7.61	40.4	54	-13.6	A
9920	H	1	41.38	10.65	52.03	74	-21.97	P
			31.94	10.65	42.59	54	-11.41	A
9920	V	1	43.85	10.65	54.5	74	-19.5	P
			32.97	10.65	43.62	54	-10.38	A
12361.67	H	1	41.58	14.19	55.77	74	-18.23	P
			31.78	14.19	45.97	54	-8.03	A
12361.67	V	1	42.89	14.19	57.08	74	-16.92	P
			32.74	14.19	46.93	54	-7.07	A
25380.37	----	----	----	----	----	----	----	----
<p>Remark: 1. Transd.=Antenna Factor+Cable Loss-Pre-amplifier Margin = Level-Limit Mark: P means Peak Value, Q means Quasi Peak Value, A means Average Value</p> <p>2. Data of measurement within this frequency range shown “-” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.</p> <p>3. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.</p> <p>4. The test limit distance is 3m limit</p>								

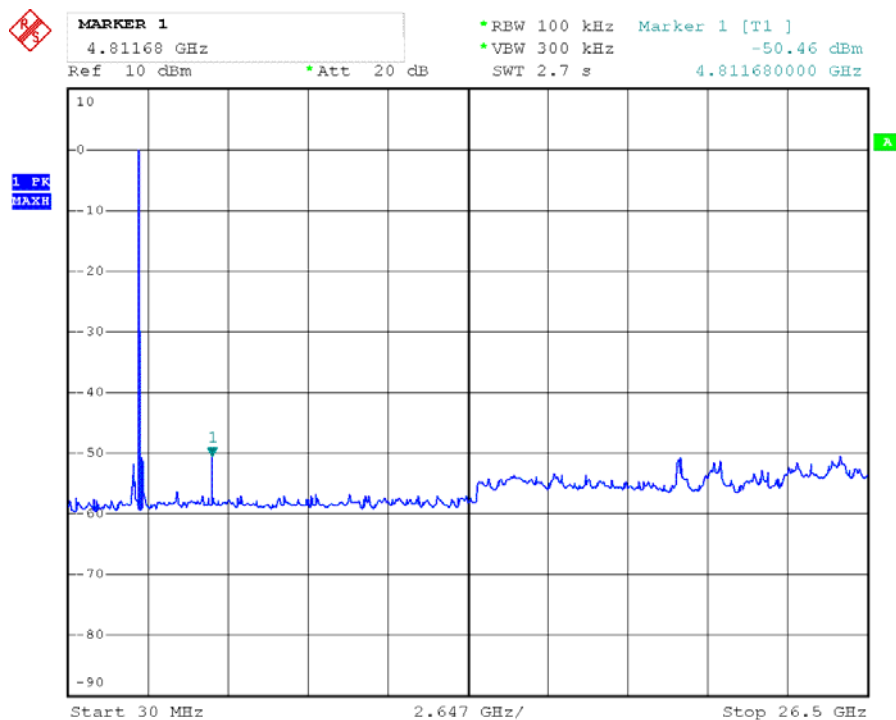
The worst Spurious Emission Data BDR Mode Below 30 MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Levels (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Mode
5.45	21.68	8.23	1.03	28.88	67	-38.12	QP
14.78	21.54	9.07	1.19	29.42	49.5	-20.08	QP
22.31	22.37	9.25	1.08	30.54	49.5	-18.96	QP
23.34	22.23	8.43	1.66	29	49.5	-20.5	QP

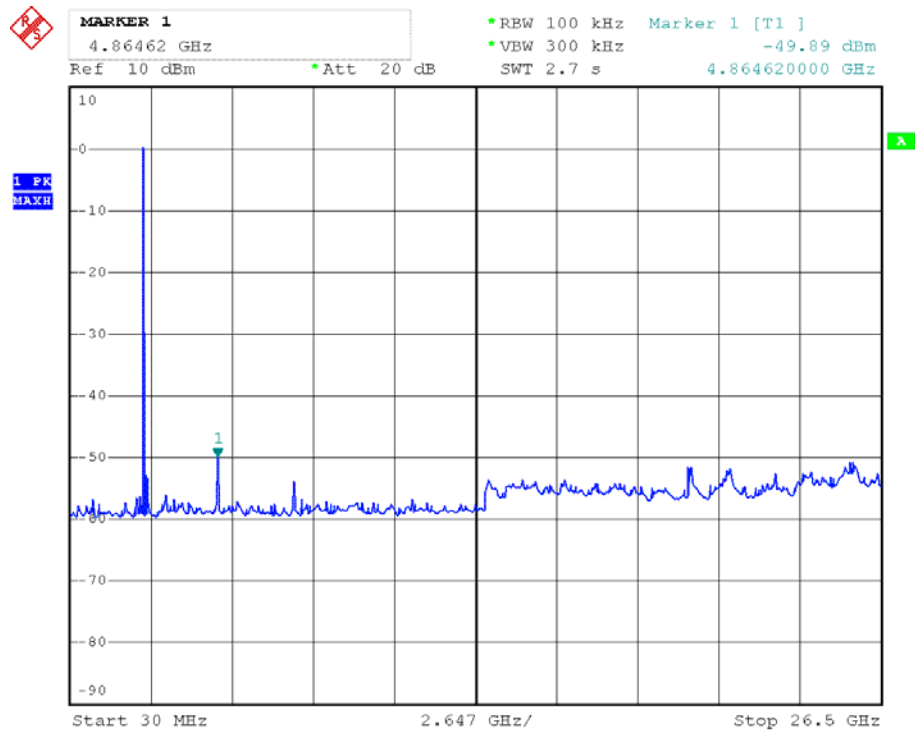
Note:

1. The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos. The worst case data is recorded in the report.
2. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
3. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
4. The other emission levels were very low against the limit.
5. Margin value = Emission level.- Limit value

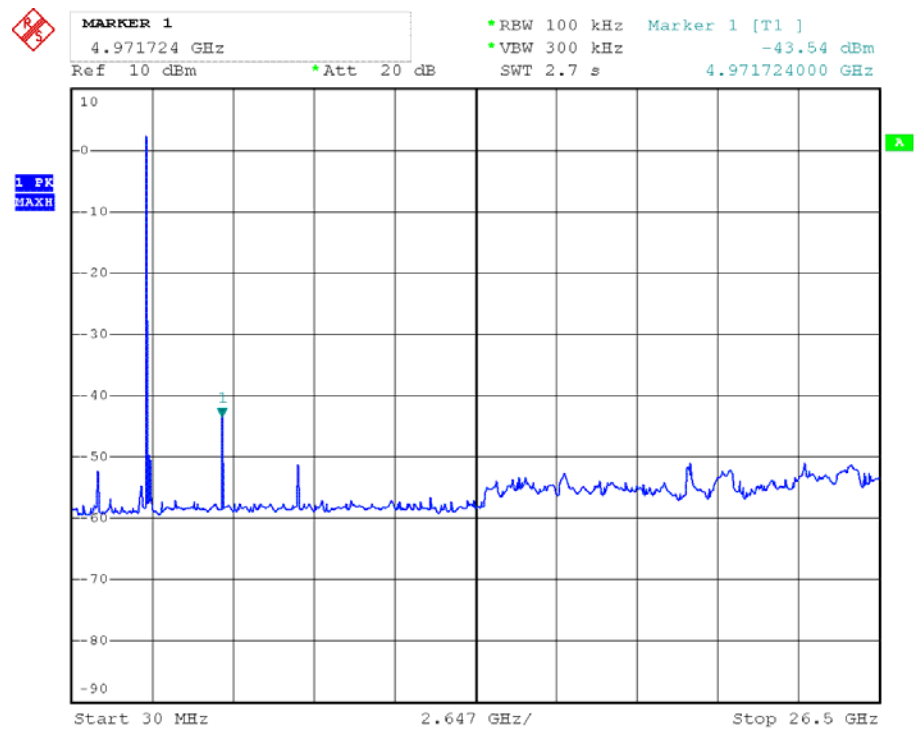
Conducted Spurious Emission BDR 1M Channel Low



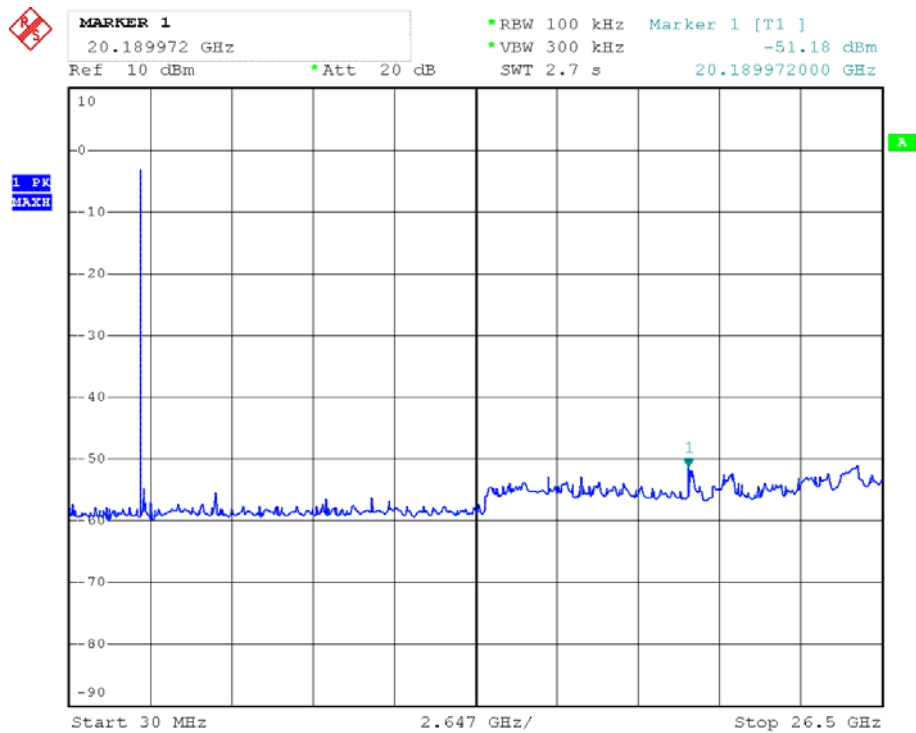
Channel Mid



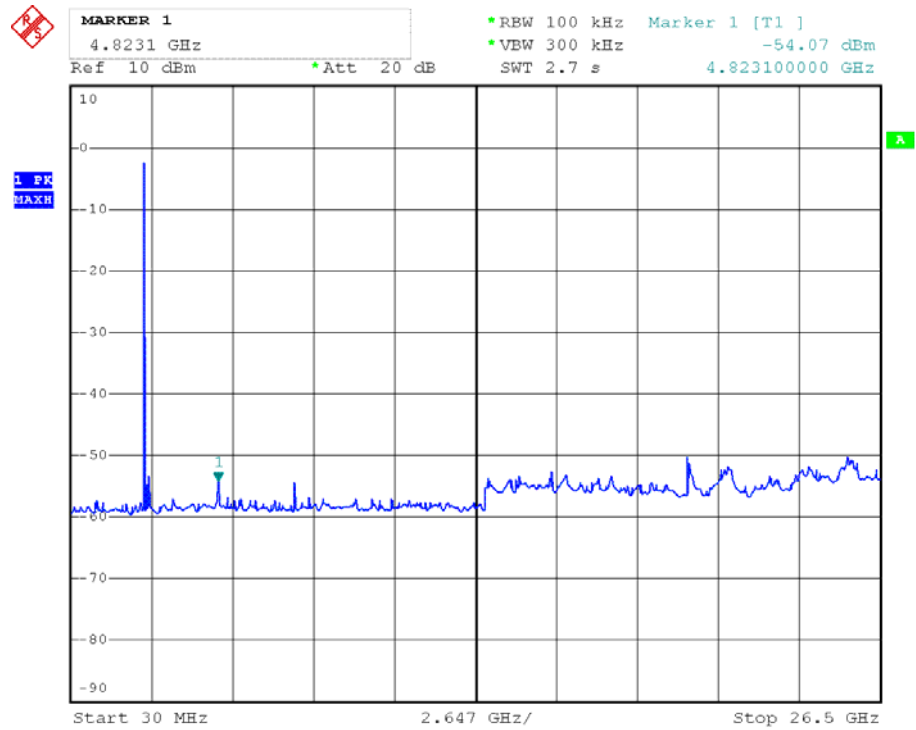
Channel High



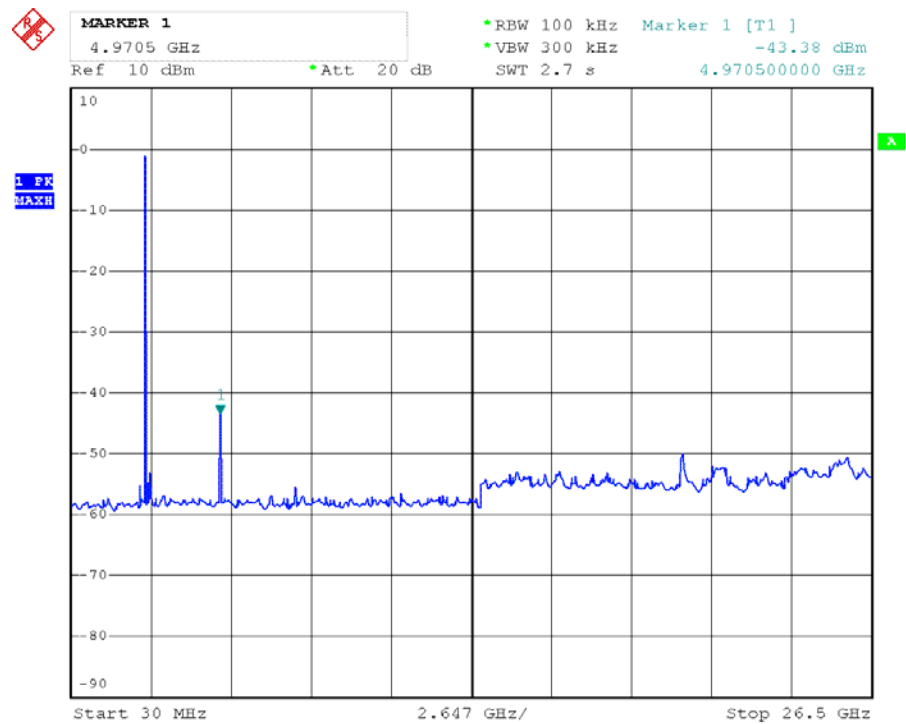
BDR 2M
Channel Low



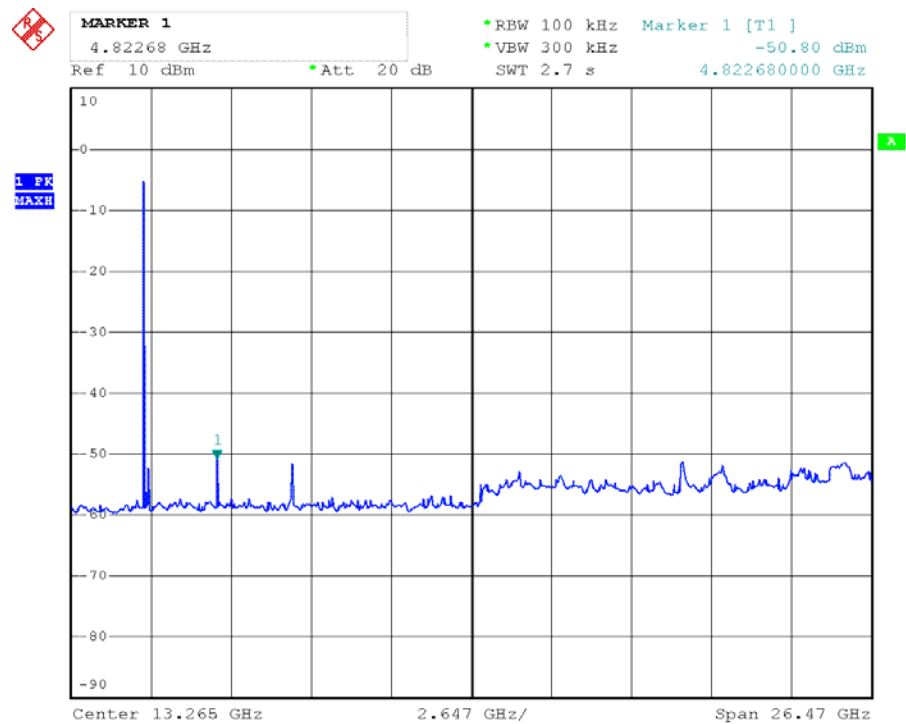
Channel Middle



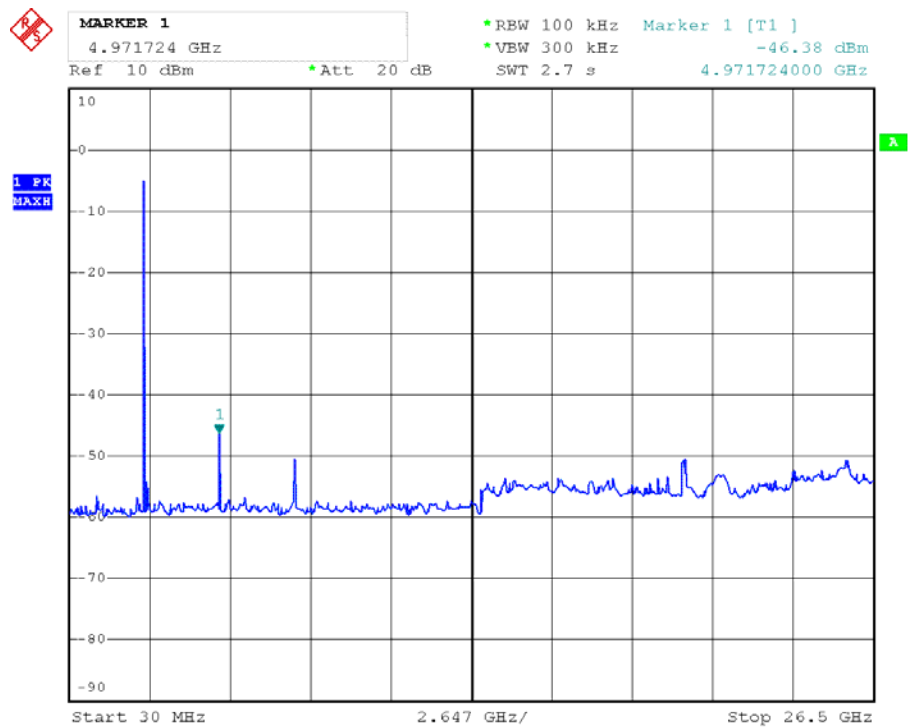
Channel High



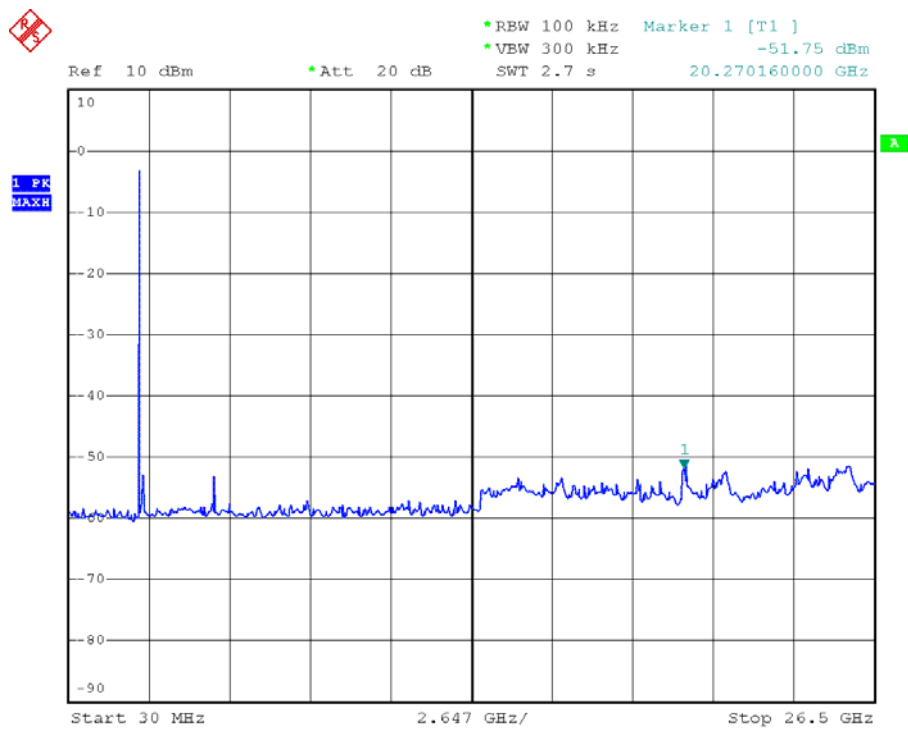
BDR 3M
Channel Low



Channel Middle



Channel High



12. ANTENNA REQUIREMENT

12.1 Standard Applicable

Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Section 15.247(b)/(c):

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

If the intentional radiator is used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

12.2 Antenna Connected Construction

The antenna is designed with permanent attachment and no consideration of replacement. The antenna used in this product is complied with Standard. The maximum Gain of the antenna lower than 6.0dBi and have the definite antenna Specification.