Test Report of FCC CFR 47 Part 15 Subpart C

On Behalf of

SUN CUPID (SHENZHEN) ELECTRONIC LTD.

FCC ID:	**YQB0SCI1000004**
Product Description:	**Wave**
Model No.:	**W1**
Supplementary Model:	**N/A**
Brand Name:	**NUU**
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
Prepared by:	**Bontek Compliance Testing Laboratory Co., Ltd** 1/F, Block East H-3, OCT Eastern Ind. Zone, Qiaocheng East Road, Nanshan, Shenzhen, China Tel: 86-755-86337020 Fax: 86-755-86337028
Report No.:	BCT13HR291E-1
Issue Date:	Sep 10, 2013
Test Date:	Sep 2-10, 2013

Tested by: Lion Cai

Reviewed by: Owen Yang

Approved by: Kendy Wang

TABLE OF CONTENTS

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:	Wave
Model No.:	W1
Supplementary Model:	N/A
Trade Name:	NUU
Frequency Band:	2402 MHz ~ 2480 MHz
Channel Spacing:	1 MHz
Number of Channels:	79
Modulation Technique:	FHSS
Type of Modulation:	GFSK, Pi/4 DAPSK, 8-DPSK
Antenna Type:	Built-in Antenna
Antenna Gain:	2dBi
Power Supply:	DC 15.0V 2.4A for Adapter ; DC11.1V 2200mAh form Battery
Battery Information:	1#:Model No:BP-105 Manufacturer: ZHONGSHAN TIANMAO BATTERY CO.,LTD 2#Model No:SR18650-3S1P Manufacturer: SouthRiver Products Ltd
Adapter Information:	1#: Model No: DYS40-150240-13504B; Manufacturer: DONGGUAN DONGSONG ELECTRONIC CO.,LTD Input: 100-240V 50/60Hz 1.0A Max Output:15.0V 2.4A 2#: Model No: ASSA32-150240 Manufacturer: AQUIL STAR PRECISION INDUSTRIAL(SHENZHEN) CO., LTD

	Input: 100-240V 50/60Hz 1.0A Max Output:15.0V 2.4A

Remark: * *The test data gathered are from the production sample provided by the manufacturer.*

1.2 Test Standards

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 Bontek Compliance Testing Laboratory Ltd at 1/F, Block East H-3, OCT Eastern Ind. Zone, Qiaocheng East Road, Nanshan, Shenzhen, China.

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

FCC – Registration No.: 338263

BONTEK COMPLIANCE TESTING LABORATORY 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 338263, March 03, 2011.

IC Registration No.: 7631A

The 3m alternate test site of BONTEK COMPLIANCE TESTING LABORATORY LTD. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 7631A on January 25, 2011.

CNAS - Registration No.: L3923

BONTEK COMPLIANCE TESTING LABORATORY LTD. to ISO/IEC 17025:25 General Requirements for the Competence of Testing and Calibration Laboratories(CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing. The acceptance letter from the CNAS is maintained in our files: Registration: L3923,March 22,2012.

TUV - Registration No.: UA 50242657-0001

BONTEK COMPLIANCE TESTING LABORATORY LTD. An assessment of the laboratory was conducted according to the"Procedures and Conditions for EMC Test Laboratories"with reference to EN ISO/IEC 17025 by a TUV Rheinland auditor. Audit Report NO. 17010783-002.

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 Support Equipment

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
Host Computer	Dell	78MD82X	CE, FCC	1.5m Unshielded Power Cord
Monitor	Dell	E178Pc	CE, FCC	1.5m Unshielded Power Cord 1.8m shielded data Cable with core
Keyboard	Dell	L100	CE, FCC	1.8m shielded data Cable with core
LCD Colour TV	SHARP	LCD-32Z330A	CE, FCC	1.2m Unshielded Power Cord 1.5m shielded data Cable with core

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 a placed on as 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 C63.4-2009.

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 List of Measuring Equipments Used

Test equipments list of Shenzhen Bontek Compliance Testing Laboratory 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	2014-4-25
2	BCT-EMC002	EMI Test Receiver	R&S	ESPI	100097	2012-11-1	2013-10-31
3	BCT-EMC003	Amplifier	HP	8447D	1937A02492	2013-4-25	2014-4-25
4	BCT-EMC004	Single Power Conductor Module	R&S	NNBM 8124	242	2013-4-25	2014-4-25
5	BCT-EMC005	Single Power Conductor Module	R&S	NNBM 8124	243	2013-4-25	2014-4-25
6	BCT-EMC006	Power Clamp	SCHWARZBECK	MDS-21	3812	2012-11-5	2013-11-4
7	BCT-EMC007	Positioning Controller	C&C	CC-C-1F	MF7802113	N/A	N/A
8	BCT-EMC008	`Electrostatic DisCharging Simulator	TESEQ	NSG437	125	2012-11-2	2013-11-1
9	BCT-EMC009	Fast Transient Burst Generator	SCHAFFNER	MODULA6150	34572	2013-4-25	2014-4-25
10	BCT-EMC010	Fast Transient Noise Simulator	Noiseken	FNS-105AX	10501	2013-6-26	2014-6-25
11	BCT-EMC011	Color TV Pattern Genenator	PHILIPS	PM5418	TM209947	N/A	N/A
12	BCT-EMC012	Power Frequency Magnetic Field Generator	EVERFINE	EMS61000-8K	608002	2013-4-25	2014-4-25
14	BCT-EMC014	Capacitive Coupling Clamp	TESEQ	CDN8014	25096	2013-4-25	2014-4-25
15	BCT-EMC015	High Field Biconical Antenna	ELECTRO-METRICS	EM-6913	166	2012-11-28	2013-11-27
16	BCT-EMC016	Log Periodic Antenna	ELECTRO-METRICS	EM-6950	811	2012-11-28	2013-11-27
17	BCT-EMC017	Remote Active Vertical Antenna	ELECTRO-METRICS	EM-6892	304	2012-11-28	2013-11-27
18	BCT-EMC018	TRILOG Broadband Test-Antenna	SCHWARZBECK	VULB9163	9163-324	2013-4-25	2014-4-25
19	BCT-EMC019	Horn Antenna	SCHWARZBECK	BBHA9120A	0499	2012-11-28	2013-11-27
20	BCT-EMC020	Teo Line Single Phase Module	SCHWARZBECK	NSLK8128	8128247	2012-11-1	2013-10-31
21	BCT-EMC021	Triple-Loop Antenna	EVERFINE	LLA-2	711002	2012-11-15	2013-11-14
22	BCT-EMC022	Electric bridge	Jhai	JK2812C	803024	N/A	N/A
23	BCT-EMC026	RF POWER AMPLIFIER	FRANKONIA	FLL-75	1020A1109	2013-4-25	2014-4-25
24	BCT-EMC027	CDN	FRANKONIA	CDN M2+M3	A3027019	2013-4-25	2014-4-25

25	BCT-EMC029	6DB Attenuator	FRANKONIA	N/A	1001698	2013-4-25	2014-4-25
26	BCT-EMC030	EM Injection clamp	FCC	F-203I-23mm	091536	2013-4-25	2014-4-25
27	BCT-EMC031	9kHz-2.4GHz signal generator 2024	MARCONI	10S/6625-99-457-8730	112260/042	2013-4-25	2014-4-25
28	BCT-EMC032	10dB attenuator	ELECTRO-METRICS	EM-7600	836	2013-4-25	2014-4-25
29	BCT-EMC033	ISN	TESEQ	ISN-T800	30301	2012-11-15	2013-11-14
30	BCT-EMC034	10KV surge generator	SANKI	SKS-0510M	048110003E 321	2012-11-01	2013-10-31
31	BCT-EMC035	HRMONICS&FLICK RE ANALYSER	VOLTECH	PM6000	200006700433	2012-11-20	2013-11-19
32	BCT-EMC036	Spectrum Analyzer	R&S	FSP	100397	2012-11-1	2013-10-31
33	BCT-EMC037	Broadband preamplifier	SCH WARZBECK	BBV9718	9718-182	2013-4-25	2014-4-25

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

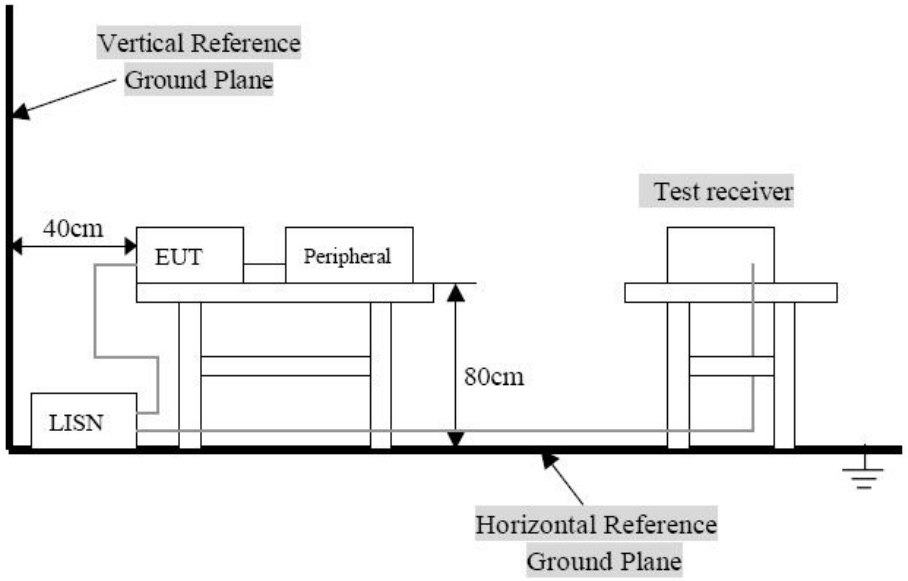
4. TEST OF AC POWER LINE CONDUCTED EMISSION

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.

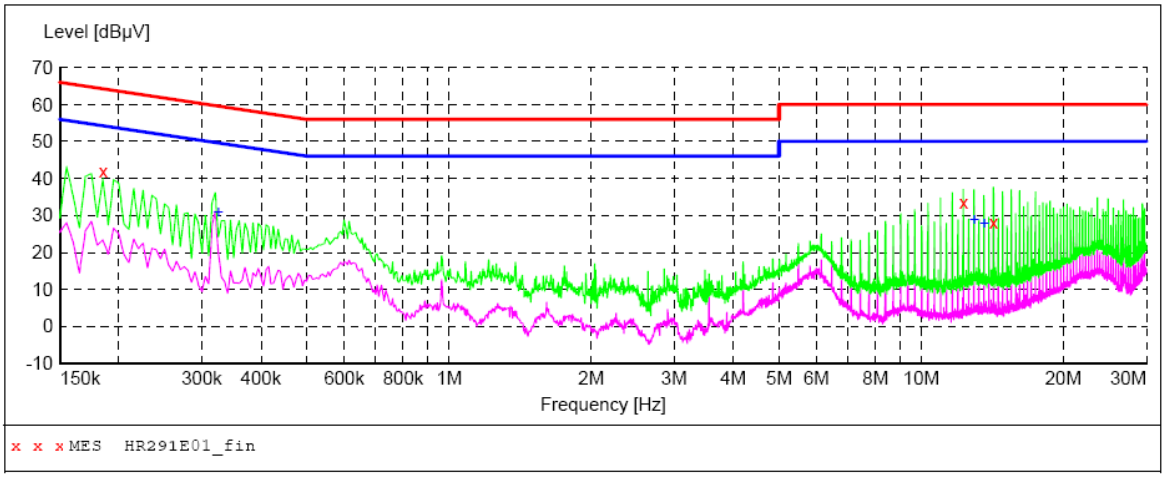
4.3 Test Result

Temperature (℃) : 23~25	EUT: Wave
Humidity (%RH): 45~58	M/N: W1
Barometric Pressure (mbar): 950~1000	Operation Condition: Normal operation

Conducted Emission:

EUT: Wave
Operating Condition: Normal operation
Test Site: Shielded Room
Operator: Andy
Test Specification: AC/DC adapter (AC 120V/60Hz)
Comment: Live Line

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



MEASUREMENT RESULT: "HR291E01_fin"

9/2/2013 19:36

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.185000	42.00	11.9	64	22.3	QP	L1	GND
12.295000	33.50	10.6	60	26.5	QP	L1	GND
14.215000	28.20	10.8	60	31.8	QP	L1	GND

MEASUREMENT RESULT: "HR291E01_fin2"

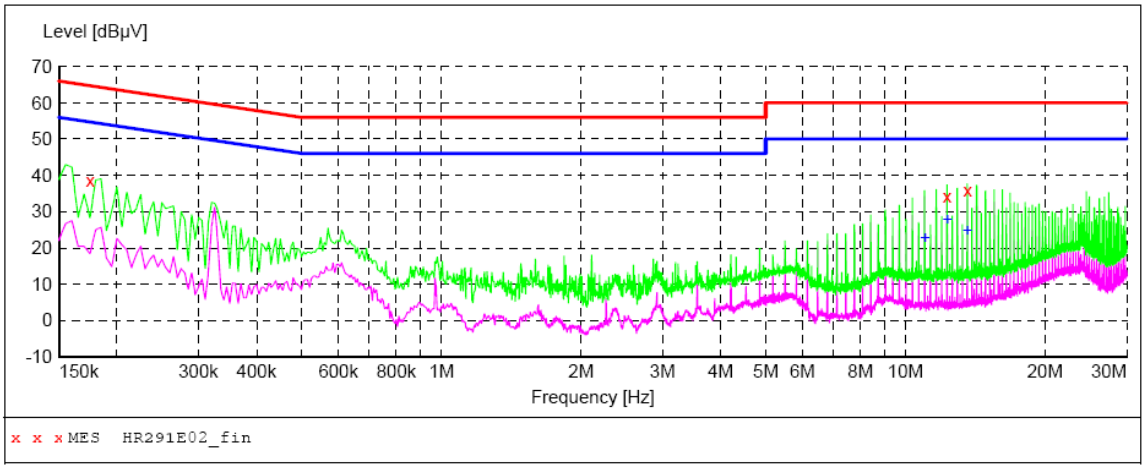
9/2/2013 19:36

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.325000	30.70	10.9	50	18.9	AV	L1	GND
12.945000	28.80	10.6	50	21.2	AV	L1	GND
13.590000	27.80	10.7	50	22.2	AV	L1	GND

Conducted Emission:

EUT: Wave
Operating Condition: Normal operation
Test Site: Shielded Room
Operator: Andy
Test Specification: AC/DC adapter (AC 120V/60Hz)
Comment: Neutral Line

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



MEASUREMENT RESULT: "HR291E02_fin"

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Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.175000	38.50	12.3	65	26.2	QP	N	GND
12.295000	34.20	10.6	60	25.8	QP	N	GND
13.595000	35.80	10.7	60	24.2	QP	N	GND

MEASUREMENT RESULT: "HR291E02_fin2"

9/2/2013 19:40

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
11.015000	22.90	10.6	50	27.1	AV	N	GND
12.305000	27.90	10.6	50	22.1	AV	N	GND
13.595000	24.90	10.7	50	25.1	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

Spectrum Analyzer

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 ≥ 1% of the 20 dB bandwidth, VBW ≥ 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 (℃) : 22~23	EUT: Wave
Humidity (%RH): 50~54	M/N: W1
Barometric Pressure (mbar): 950~1000	Operation Condition: Tx Mode

BDR 1M

Modulation Type	Channel No.	Frequency (MHz)	20dB Bandwidth (kHz)	Min. Limit (kHz)
GFSK	Low	2402.00	696	>25
GFSK	Middle	2441.00	708	>25
GFSK	High	2480.00	696	>25

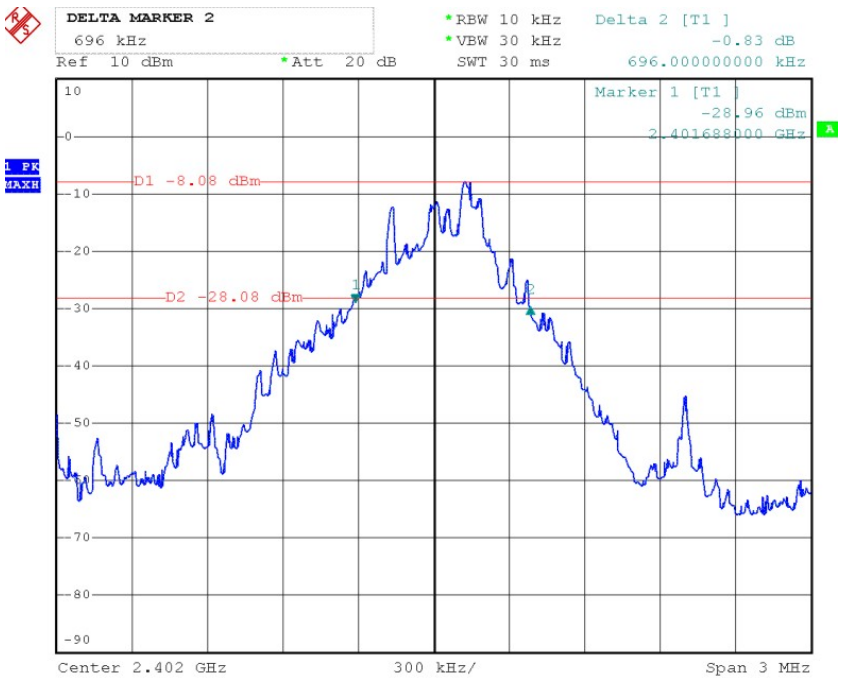
EDR 2M

Modulation Type	Channel No.	Frequency (MHz)	20dB Bandwidth (kHz)	Min. Limit (kHz)
Pi/4 DAPSK	Low	2402.00	1236	>25
Pi/4 DAPSK	Middle	2441.00	1230	>25
Pi/4 DAPSK	High	2480.00	1230	>25

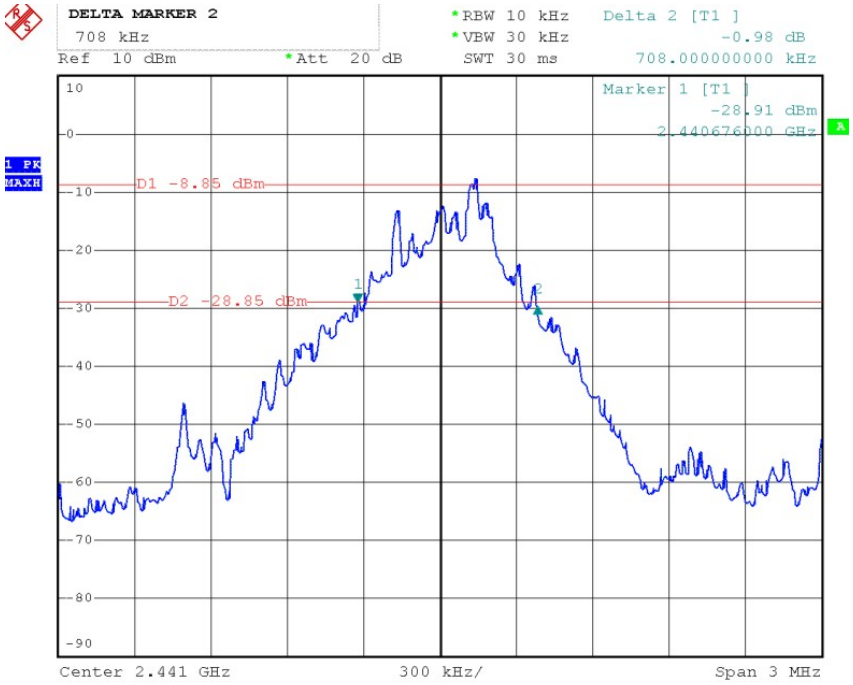
EDR 3M

Modulation Type	Channel No.	Frequency (MHz)	20dB Bandwidth (kHz)	Min. Limit (kHz)
8-DPSK	Low	2402.00	1206	>25
8-DPSK	Middle	2441.00	1212	>25
8-DPSK	High	2480.00	1218	>25

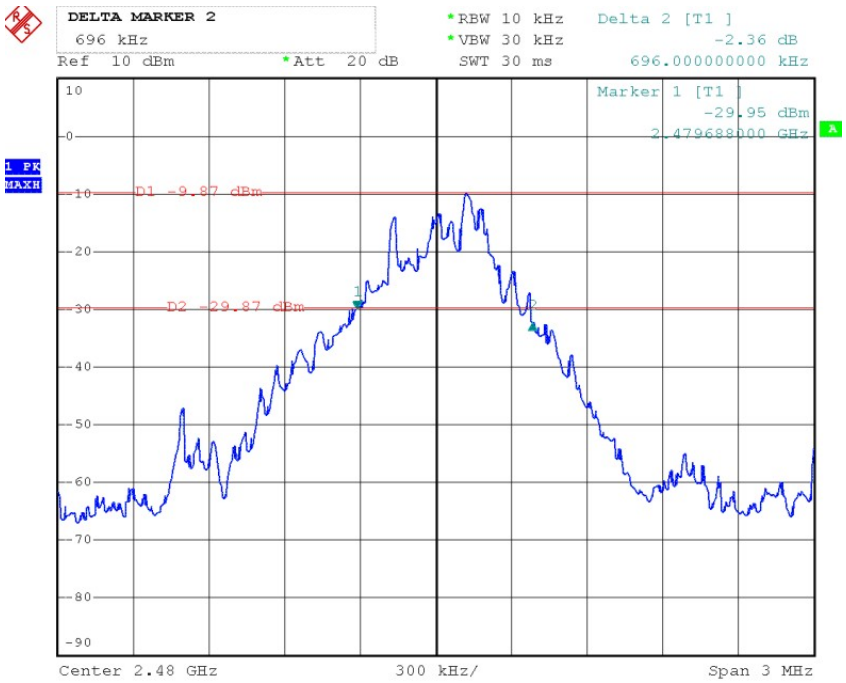
BDR 1M
Channel Low



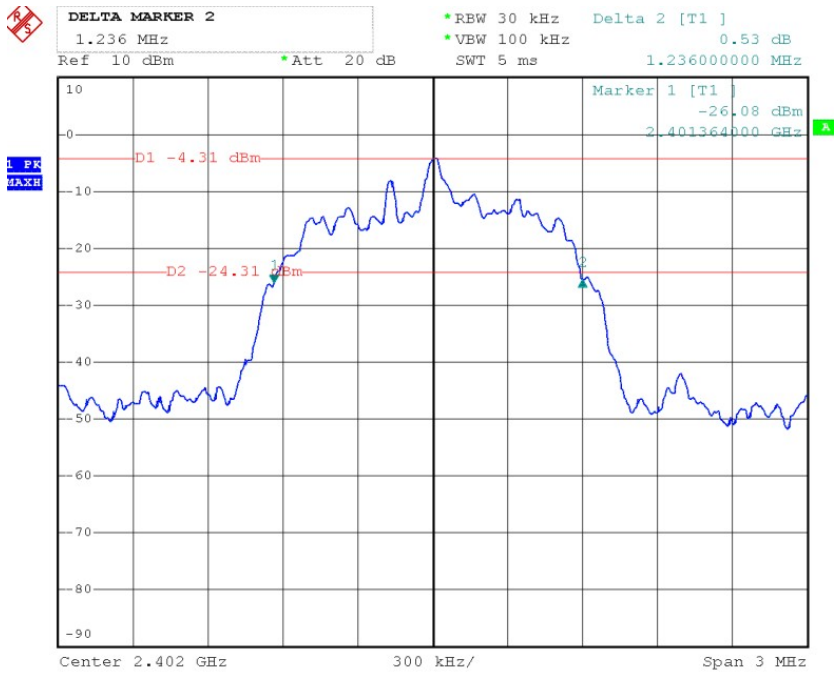
Channel Middle



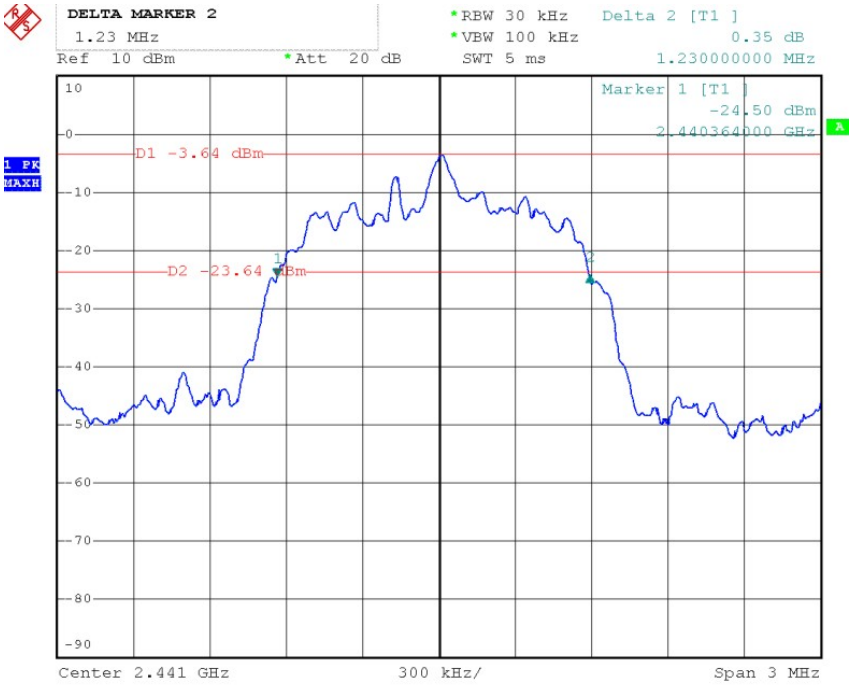
Channel High



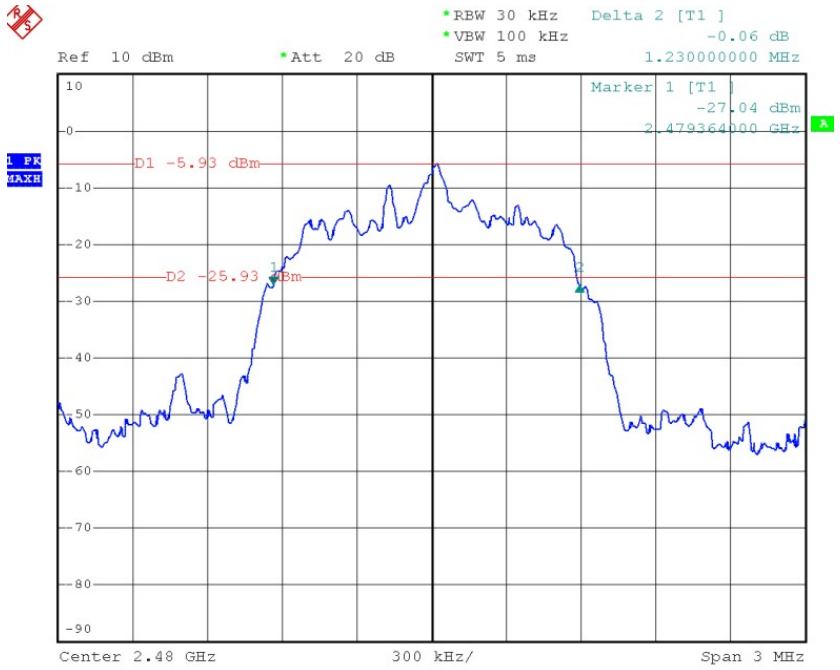
EDR 2M
Channel Low



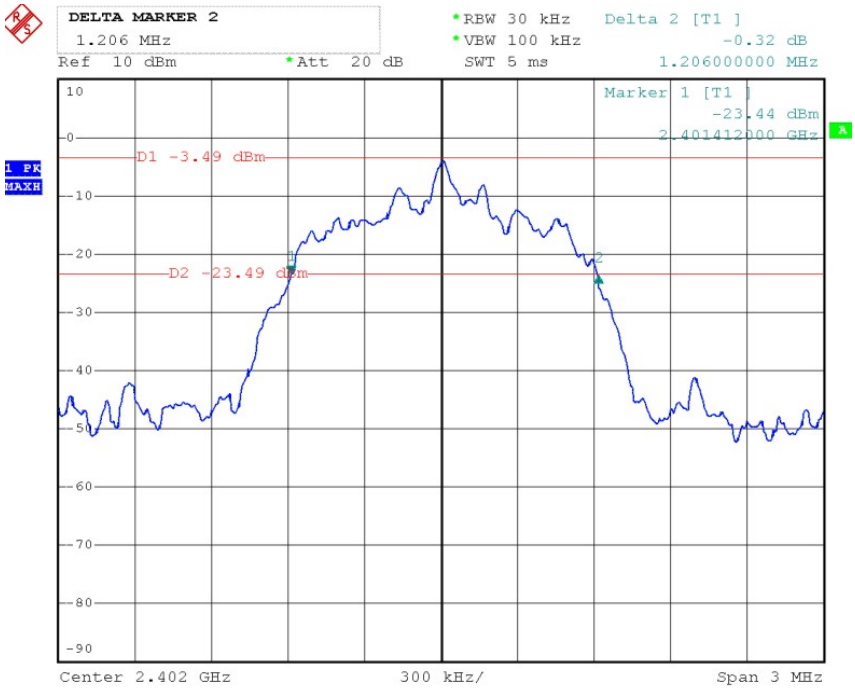
Channel Middle



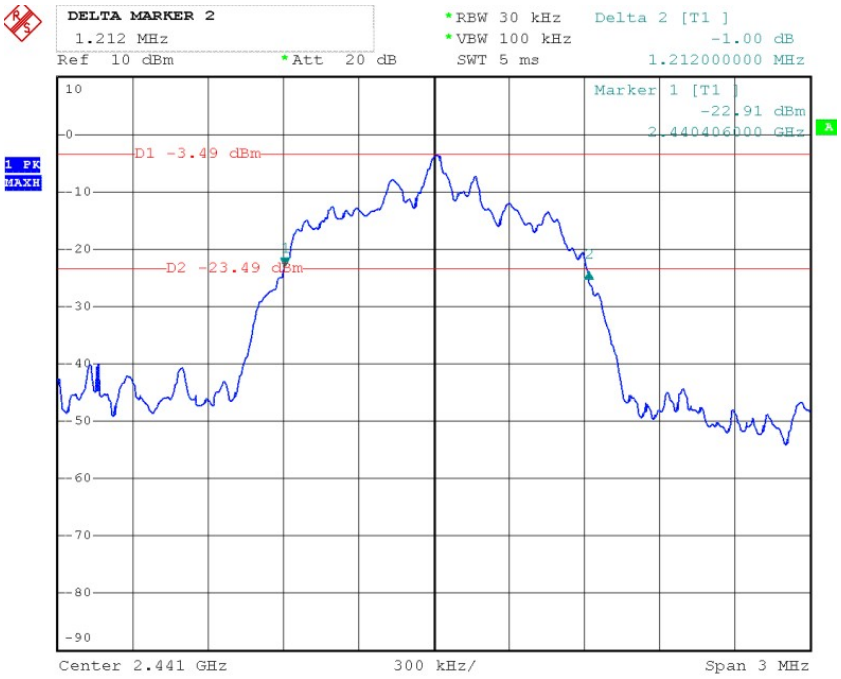
Channel High



EDR 3M
Channel Low



Channel Middle



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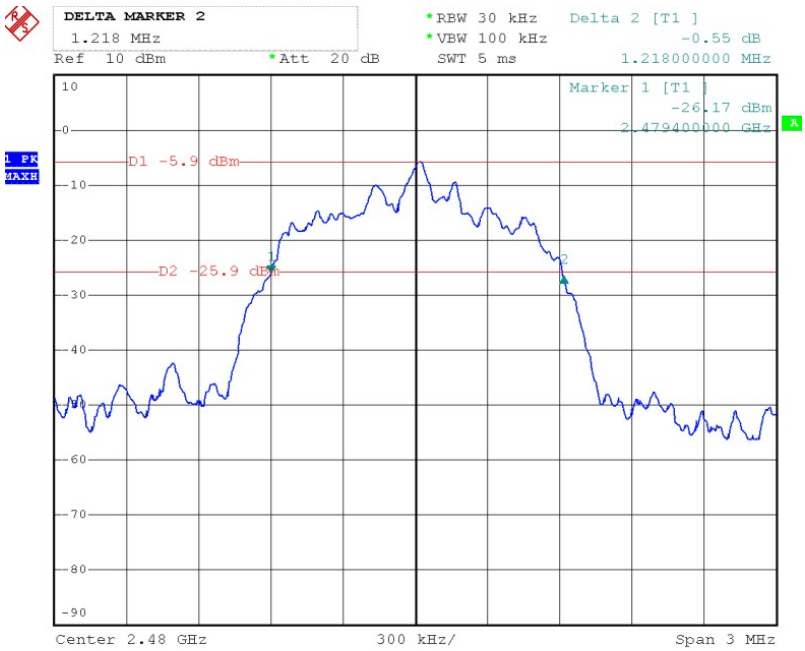


6. Test of Hopping Channel Separation

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

Spectrum Analyzer

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. Use the following spectrum analyzer settings:
   Span = wide enough to capture the peaks of two adjacent channels
   RBW ≥ 1% of the span, VBW ≥ RBW
   Sweep = auto
   Detector function = peak
   Trace = max hold

3. The Hopping Channel Separation is defined as the separation between 2 neighboring hopping frequencies.

4. Repeat above 1~3 points for the middle and highest channel of the EUT.

6.5 Test Result

Temperature (℃) : 22~23	EUT: Wave
Humidity (%RH): 50~54	M/N: W1
Barometric Pressure (mbar): 950~1000	Operation Condition: Tx Mode

BDR 1M

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

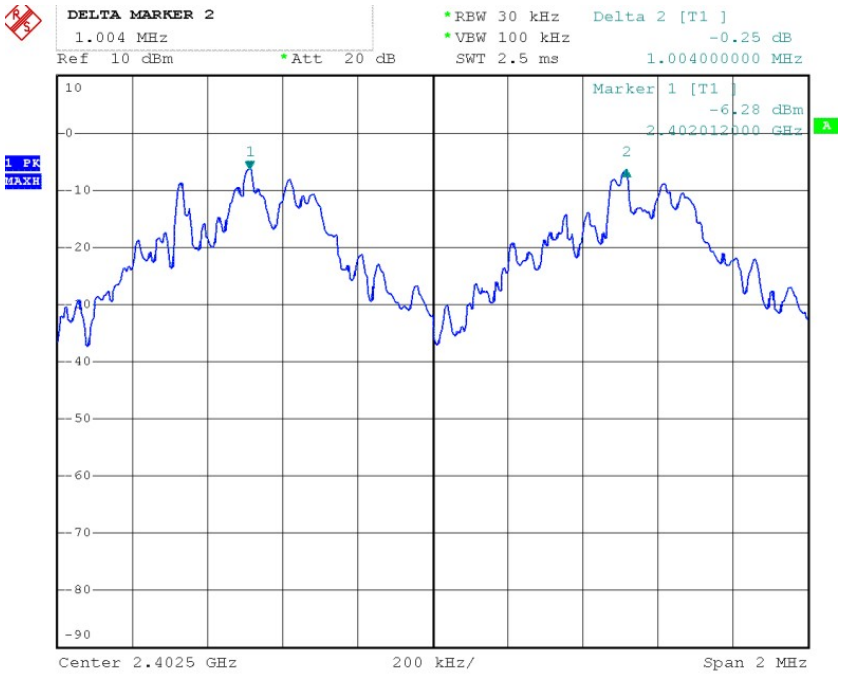
EDR 2M

Modulation Type	Frequency (MHz)	Channel Separation (MHz)	Min. Limit (kHz)
Pi/4 DAPSK	2402~2403	1.016	>25
Pi/4 DAPSK	2441~2442	1.012	>25
Pi/4 DAPSK	2479~2480	1.004	>25

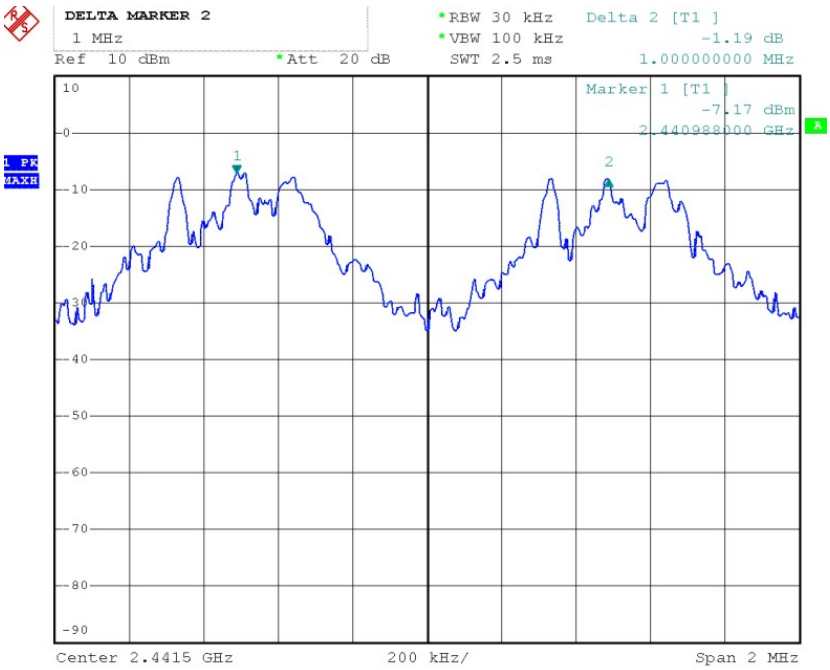
EDR 3M

Modulation Type	Frequency (MHz)	Channel Separation (MHz)	Min. Limit (kHz)
8-DPSK	2402~2403	1.028	>25
8-DPSK	2441~2442	1.008	>25
8-DPSK	2479~2480	1.002	>25

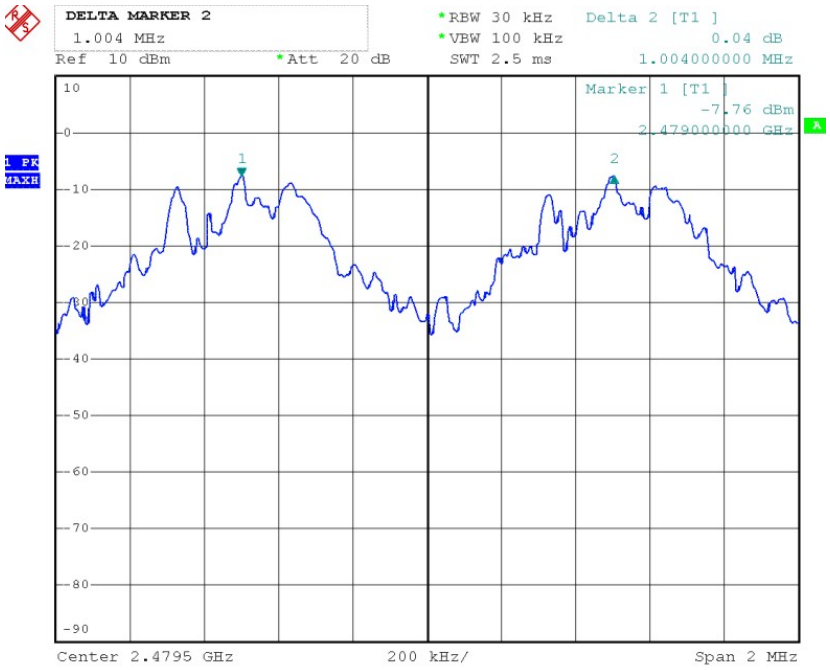
BDR 1M
Channel Low



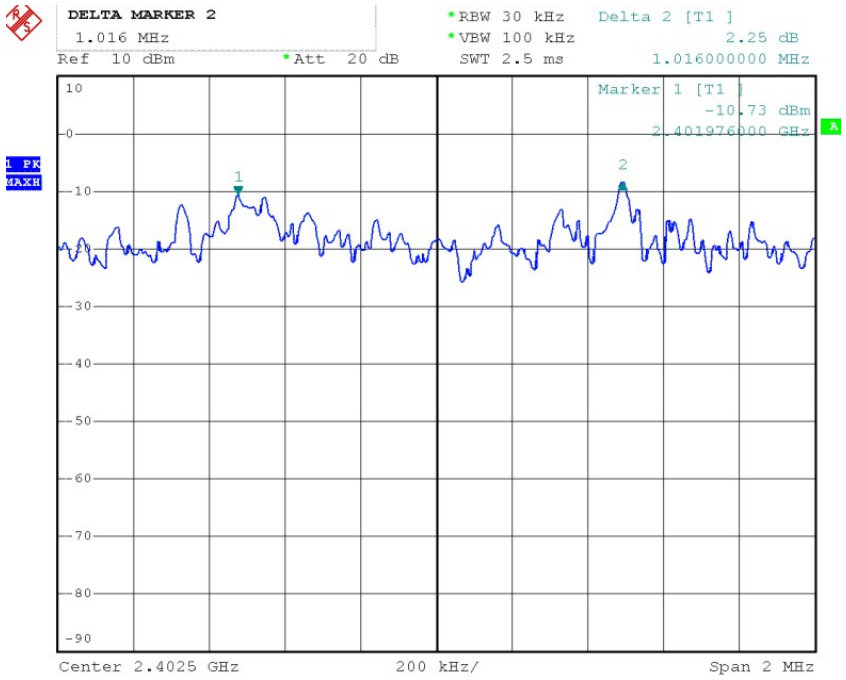
Channel Middle



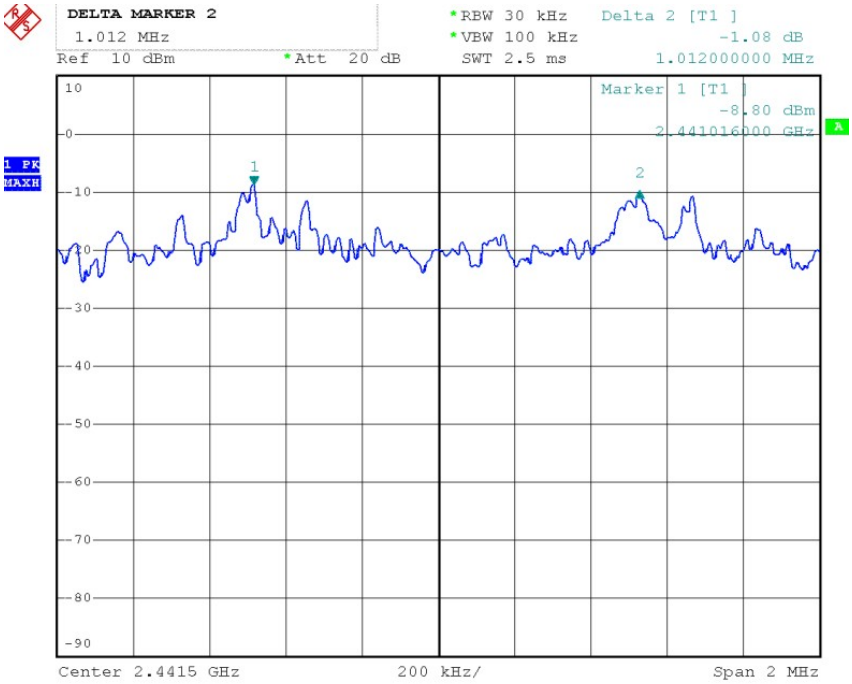
Channel High



EDR 2M
Channel Low



Channel Middle



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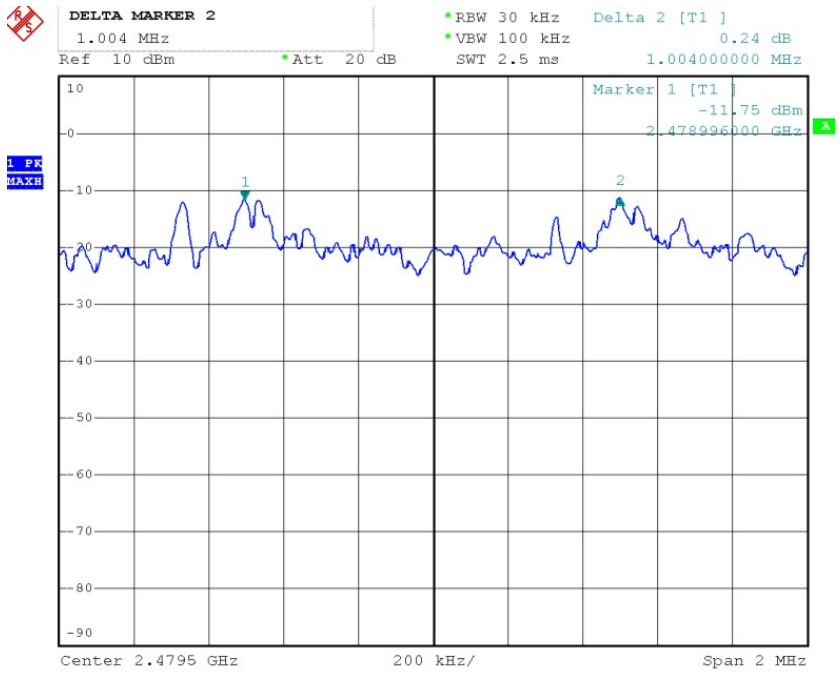
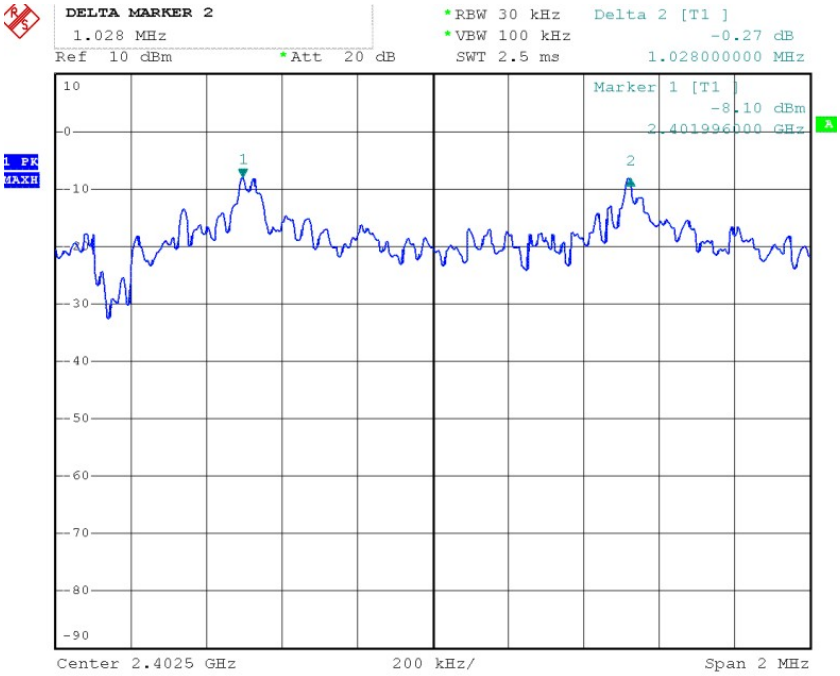
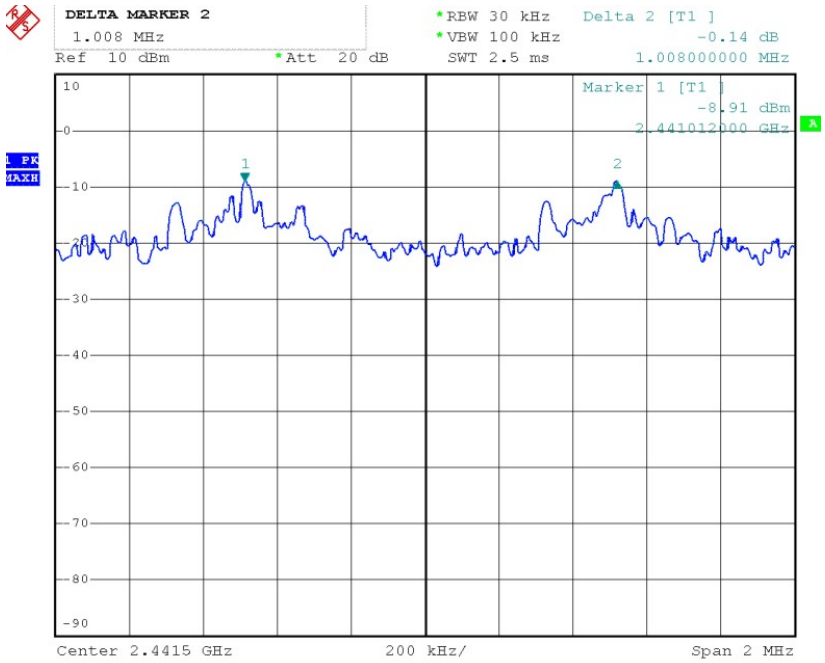


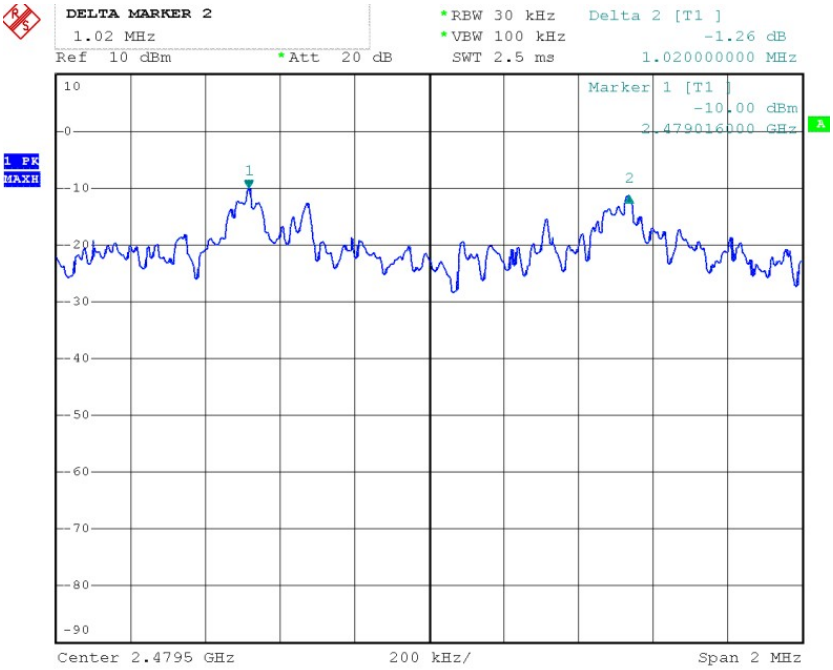
EDR 3M
Channel Low



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

Spectrum Analyzer

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. Use the following spectrum analyzer settings:
   Span = the frequency band of operation
   RBW ≥ 1% of the span, VBW ≥ RBW
   Sweep = auto
   Detector function = peak
   Trace = max hold

3. Observe frequency hopping in 2400MHz~2483.5MHz, there are at least 32 non-overlapping channels.

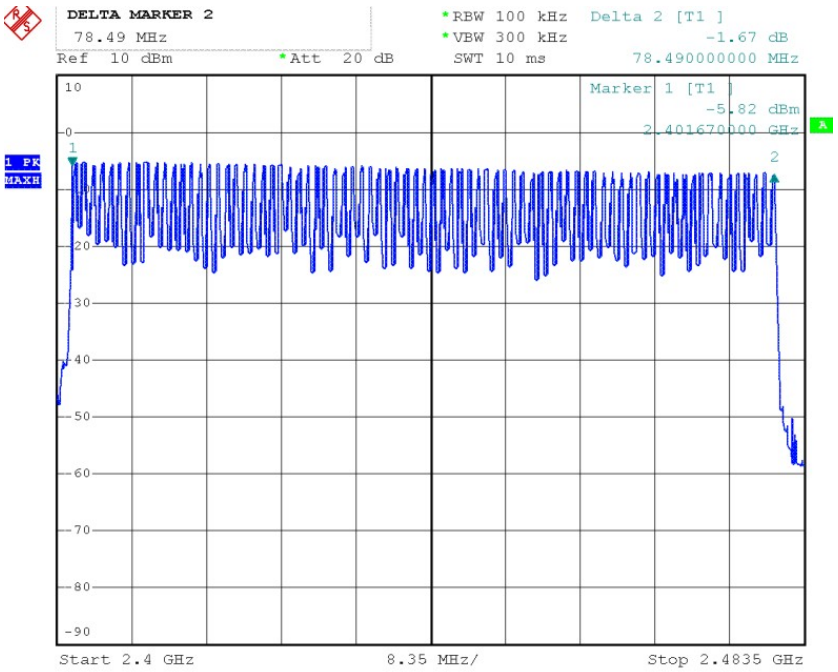
4. Repeat above 1~3 points for the middle and highest channel of the EUT.

7.5 Test Result

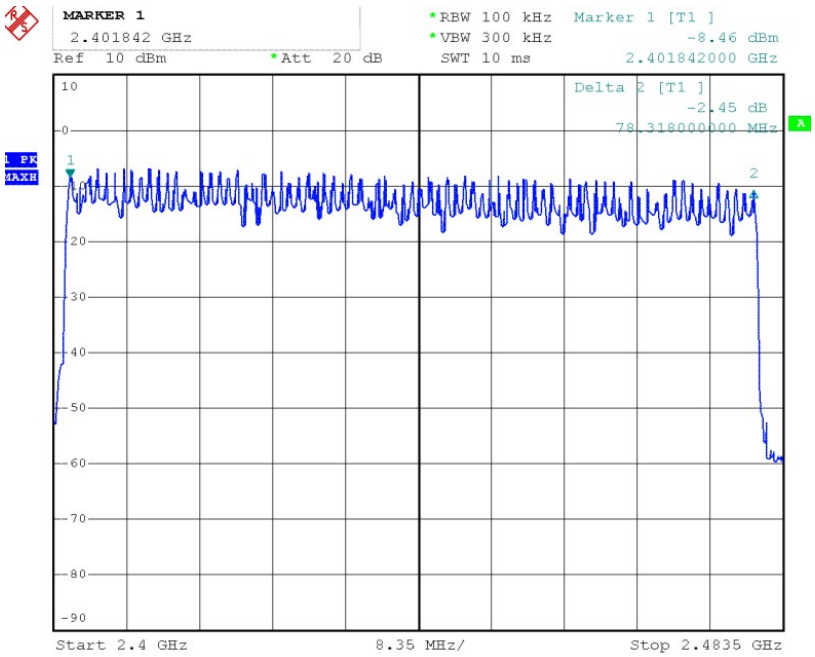
Temperature (℃) : 22~23	EUT: Wave
Humidity (%RH): 50~54	M/N: W1
Barometric Pressure (mbar): 950~1000	Operation Condition: Tx Mode

Modulation Type	Frequency (MHz)	Number of Hopping Channels	Min. Limit (kHz)
GFSK	2402.0~2480.0	79	>15

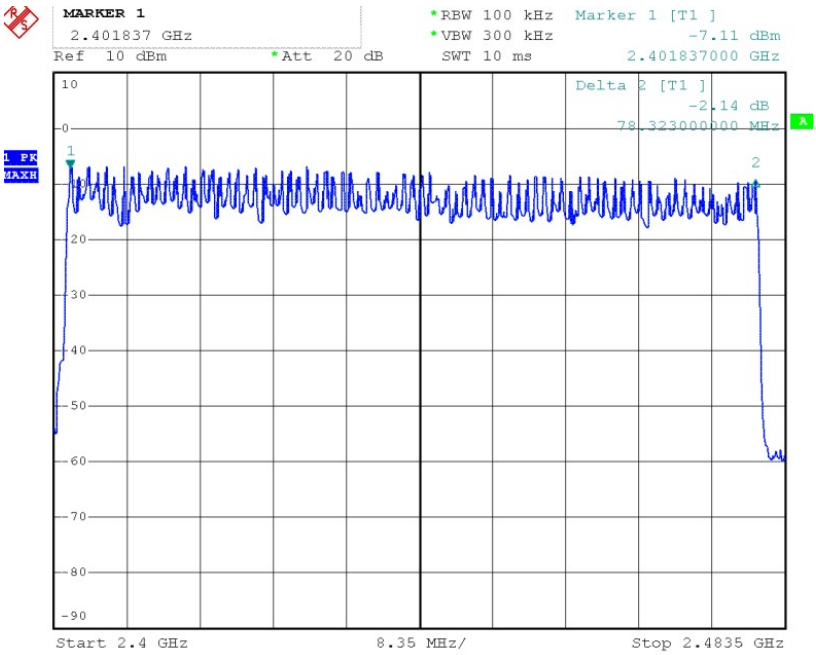
BDR-1M


DELTA MARKER 2
78.49 MHz
Ref 10 dBm
*Att 20 dB
*RBW 100 kHz
*VBW 300 kHz
SWT 10 ms
Delta 2 [T1]
-1.67 dB
78.490000000 MHz
Marker 1 [T1]
-5.82 dBm
2.401670000 GHz
1 PK
MAXH
Start 2.4 GHz
8.35 MHz/
Stop 2.4835 GHz

EDR-2M


MARKER 1
2.401842 GHz
Ref 10 dBm
*Att 20 dB
*RBW 100 kHz
*VBW 300 kHz
SWT 10 ms
Marker 1 [T1]
-8.46 dBm
2.401842000 GHz
Delta 2 [T1]
-2.45 dB
78.318000000 MHz
Start 2.4 GHz
8.35 MHz/
Stop 2.4835 GHz

EDR-3M


MARKER 1
2.401837 GHz
Ref 10 dBm
*Att 20 dB
*RBW 100 kHz
*VBW 300 kHz
SWT 10 ms
Marker 1 [T1]
-7.11 dBm
2.401837000 GHz
Delta 2 [T1]
-2.14 dB
78.323000000 MHz
1 PK
MAXH
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
Start 2.4 GHz
8.35 MHz/
Stop 2.4835 GHz

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

Spectrum Analyzer

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. Use the following spectrum analyzer settings:
   Span = zero span, centered on a hopping channel
   RBW = 1 MHz, VBW ≥ RBW
   Sweep = as necessary to capture the entire dwell time per hopping channel
   Detector function = peak
   Trace = max hold

3. Set the center frequency on any frequency would be measure and set the frequency span to zero span.

4. Measure the maximum time duration of one single pulse.

8.5 Test Result

Temperature (℃) : 22~23	EUT: Wave
Humidity (%RH): 50~54	M/N: W1
Barometric Pressure (mbar): 950~1000	Operation Condition: Tx Mode

DH1

Dwell time= t*(1.6/2/79)*31.6

DH3

Dwell time= t*(1.6/4/79)*31.6

DH5

Dwell time= t*(1.6/6/79)*31.6

BDR 1M
Low Channel

Modulation Type		Reading （ms）	Dwell Time (ms)	Limit (ms)
GFSK	DH1	0.396	126.72	400
GFSK	DH3	1.416	226.56	400
GFSK	DH5	2.024	215.89	400

Middle Channel

Modulation Type		Reading （ms）	Dwell Time (ms)	Limit (ms)
GFSK	DH1	0.396	126.72	400
GFSK	DH3	1.416	226.56	400
GFSK	DH5	2.024	215.89	400

High Channel

Modulation Type		Reading （ms）	Dwell Time (ms)	Limit (ms)
GFSK	DH1	0.396	126.72	400
GFSK	DH3	1.416	226.56	400
GFSK	DH5	2.024	215.89	400

EDR 2M
Low Channel

Modulation Type		Reading （ms）	Dwell Time (ms)	Limit (ms)
Pi/4 DAPSK	2DH1	0.418	133.76	400
Pi/4 DAPSK	2DH3	1.658	265.28	400
Pi/4 DAPSK	2DH5	2.922	311.68	400

Middle Channel

Modulation Type		Reading （ms）	Dwell Time (ms)	Limit (ms)
Pi/4 DAPSK	2DH1	0.418	133.76	400
Pi/4 DAPSK	2DH3	1.658	265.28	400
Pi/4 DAPSK	2DH5	2.928	312.32	400

High Channel

Modulation Type		Reading （ms）	Dwell Time (ms)	Limit (ms)
Pi/4 DAPSK	2DH1	0.418	133.76	400
Pi/4 DAPSK	2DH3	1.658	265.28	400
Pi/4 DAPSK	2DH5	2.928	312.32	400

EDR 3M
Low Channel

Modulation Type		Reading （ms）	Dwell Time (ms)	Limit (ms)
8-DPSK	3DH1	0.416	133.12	400
8-DPSK	3DH3	1.666	266.56	400
8-DPSK	3DH5	2.930	312.53	400

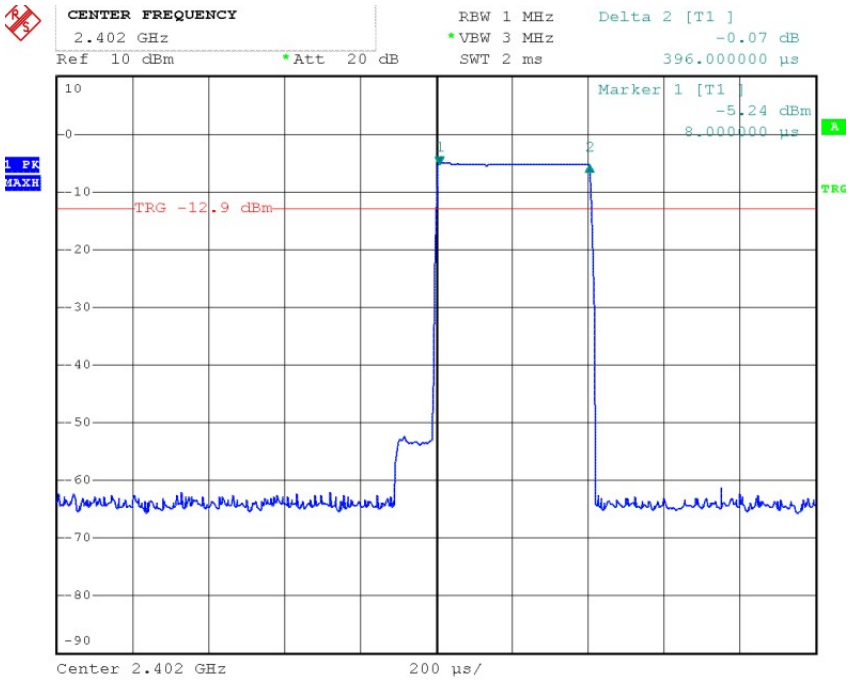
Middle Channel

Modulation Type		Reading （ms）	Dwell Time (ms)	Limit (ms)
8-DPSK	3DH1	0.416	133.12	400
8-DPSK	3DH3	1.666	266.56	400
8-DPSK	3DH5	2.930	312.53	400

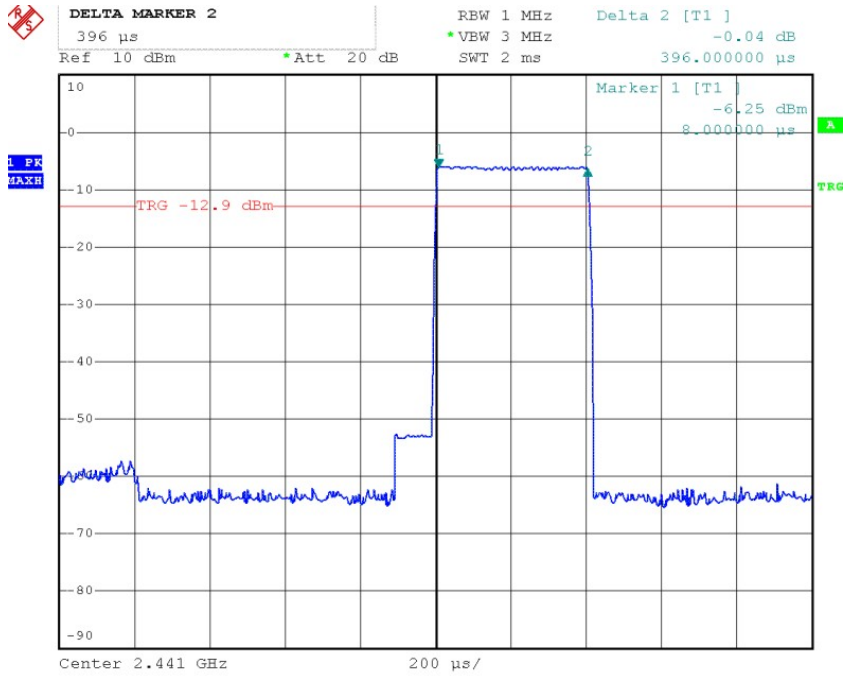
High Channel

Modulation Type		Reading （ms）	Dwell Time (ms)	Limit (ms)
8-DPSK	3DH1	0.416	133.12	400
8-DPSK	3DH3	1.666	266.56	400
8-DPSK	3DH5	2.930	312.53	400

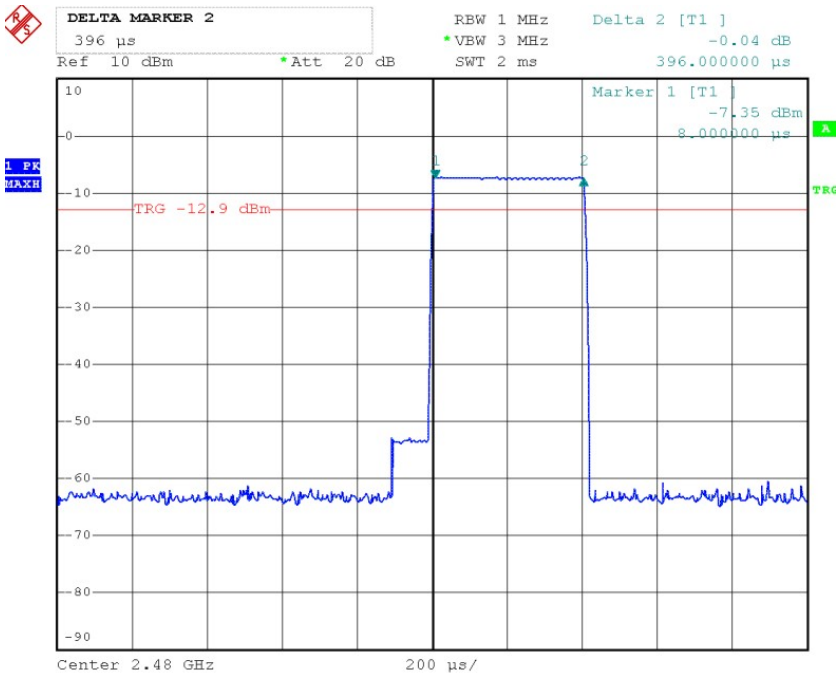
BDR 1M DH1
Channel Low



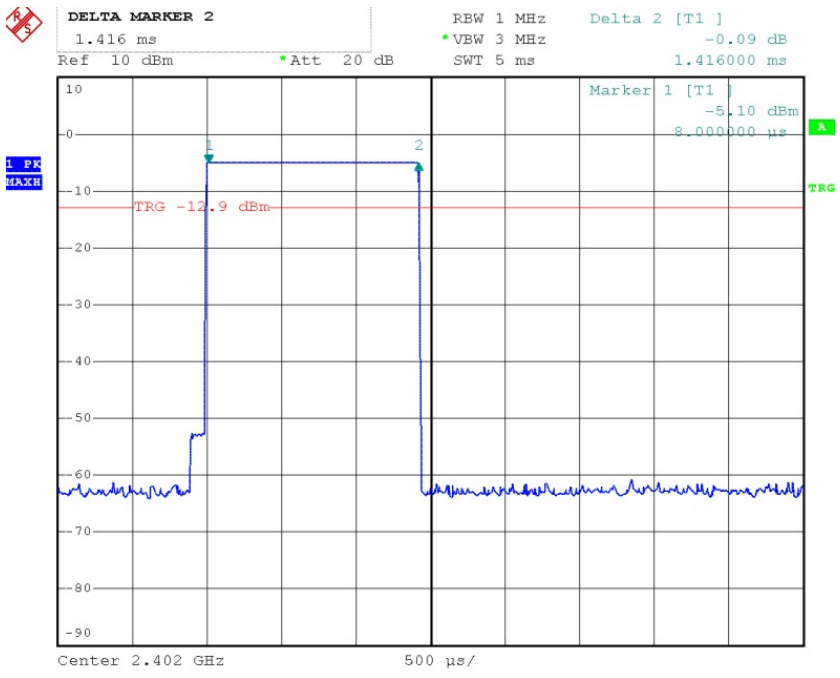
Channel Middle



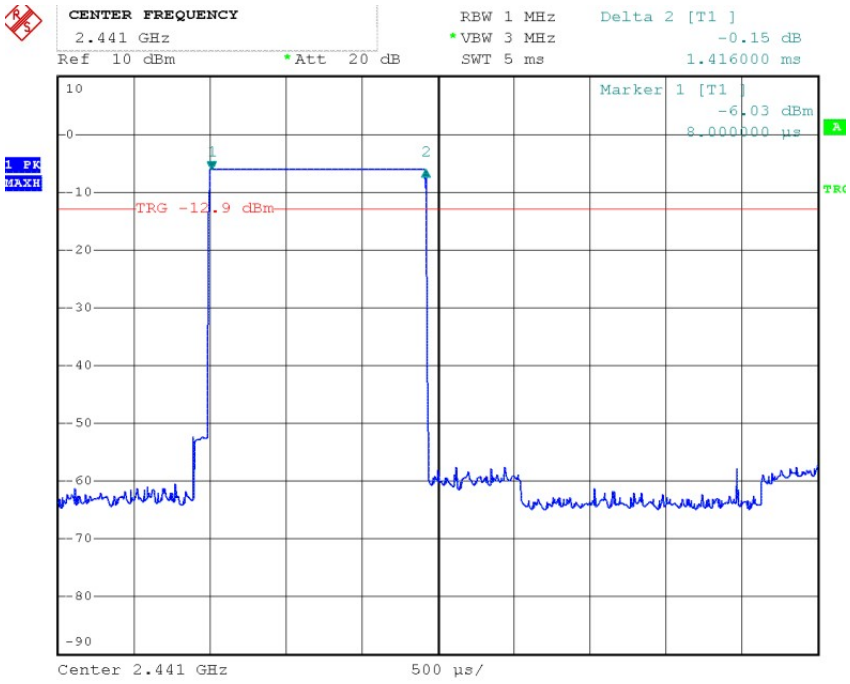
Channel High



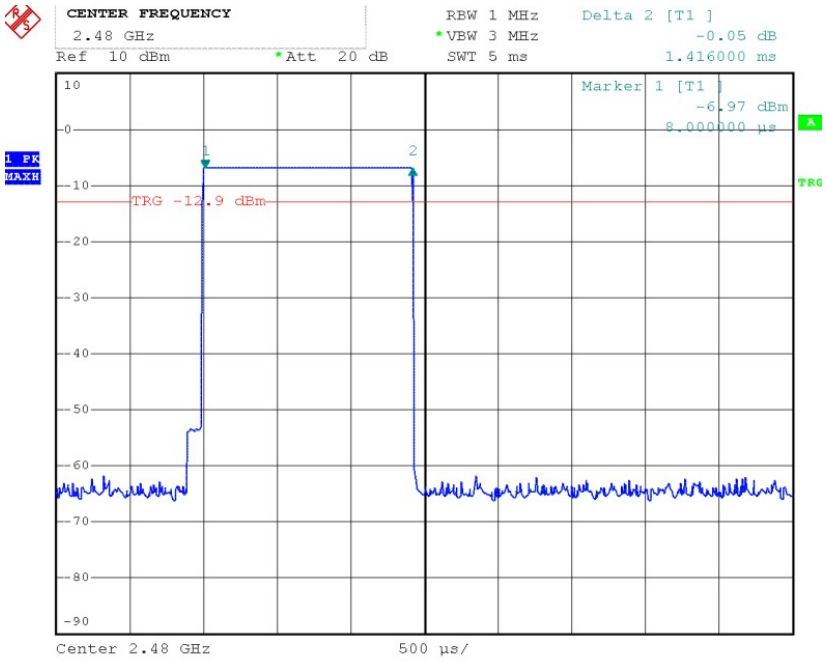
BDR 1M DH3
Channel Low



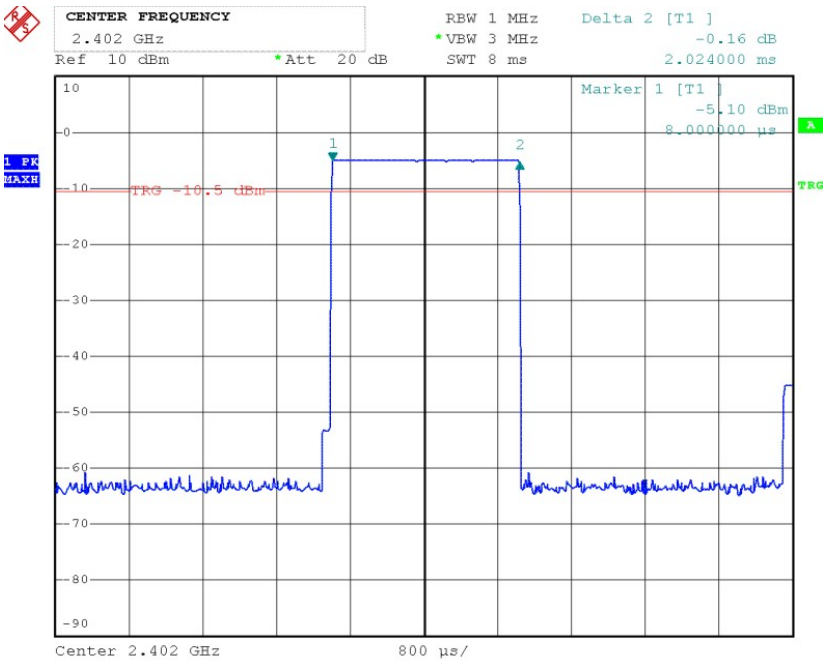
Channel Middle



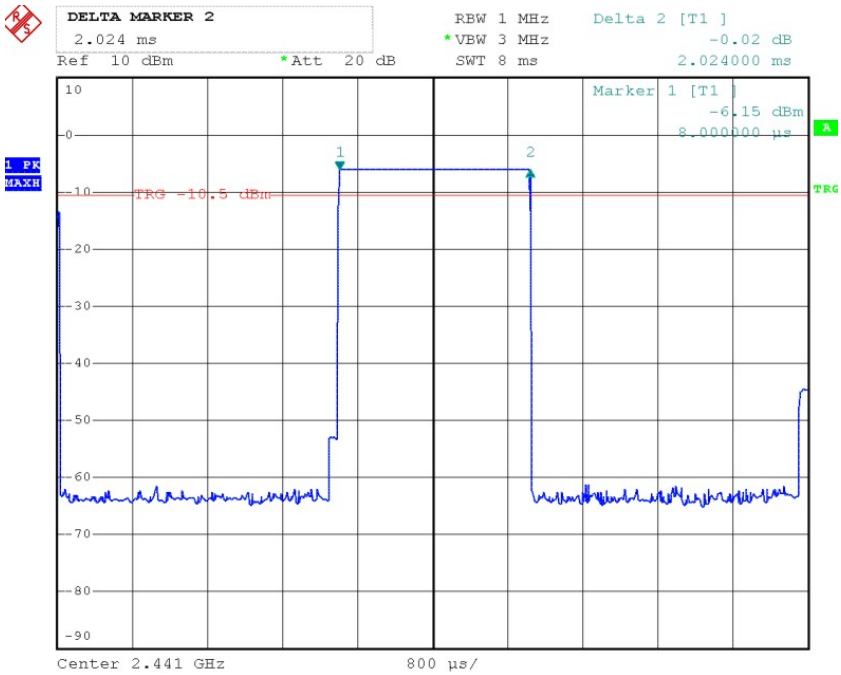
Channel High



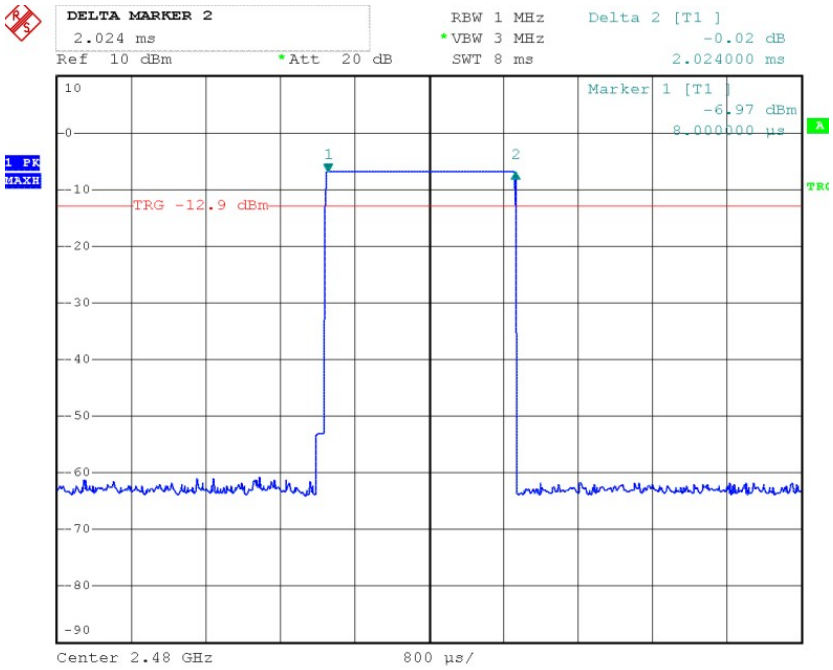
BDR 1M DH5
Channel Low



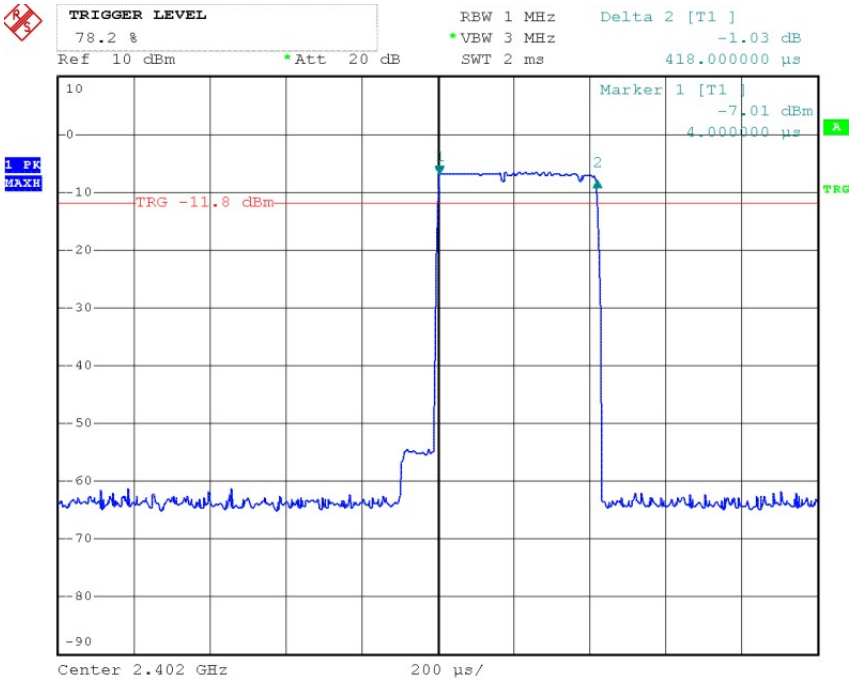
Channel Middle



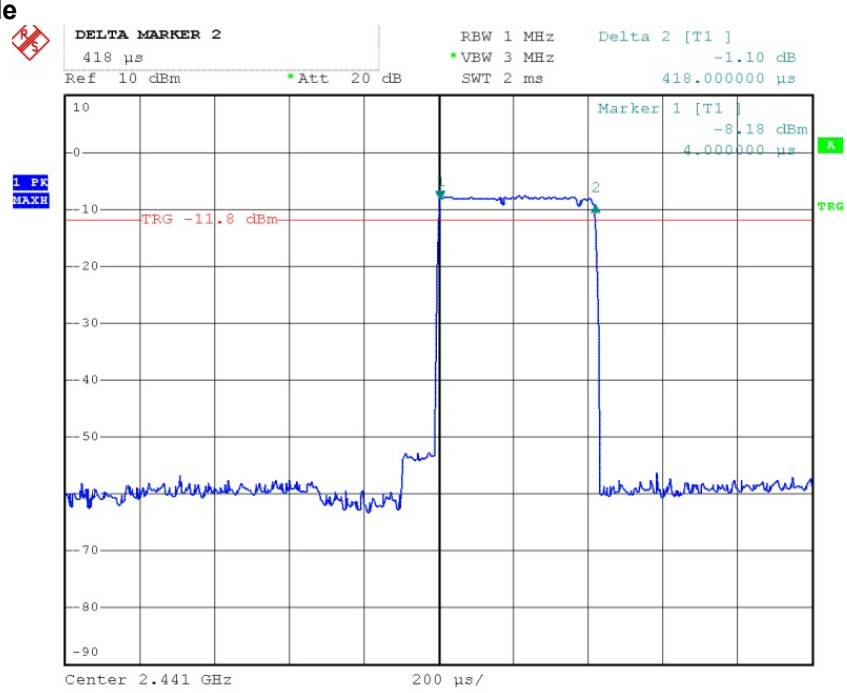
Channel High



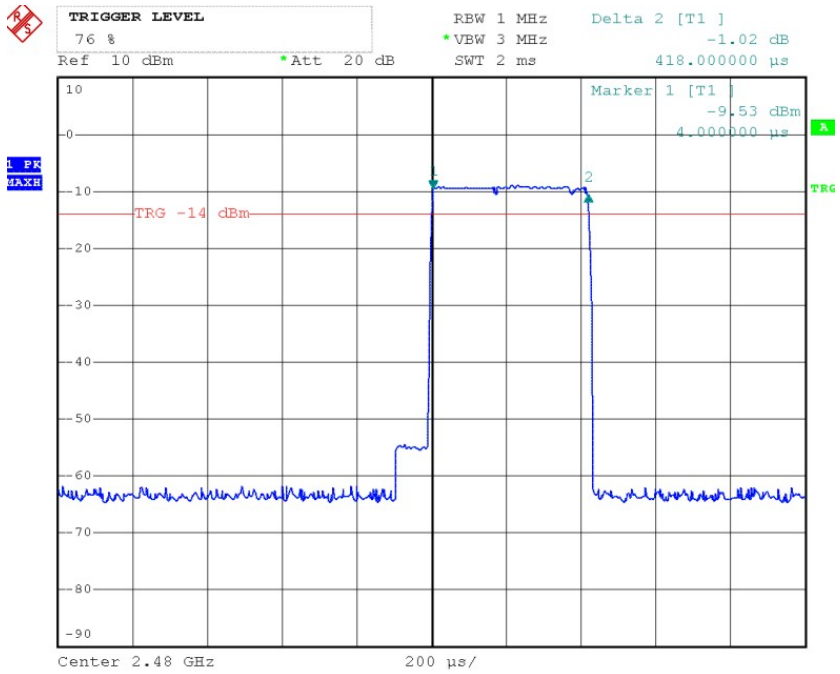
EDR 2M 2DH1
Channel Low



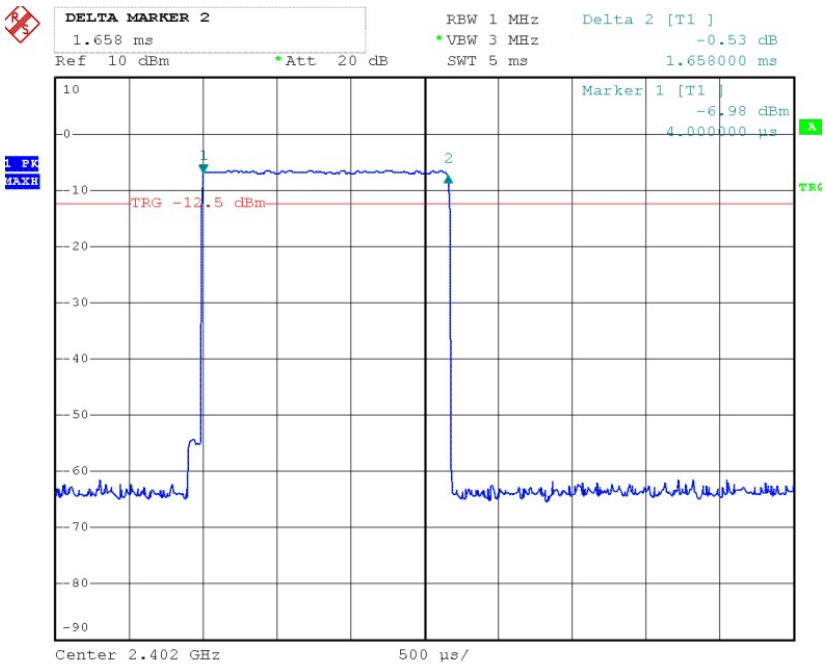
Channel Middle



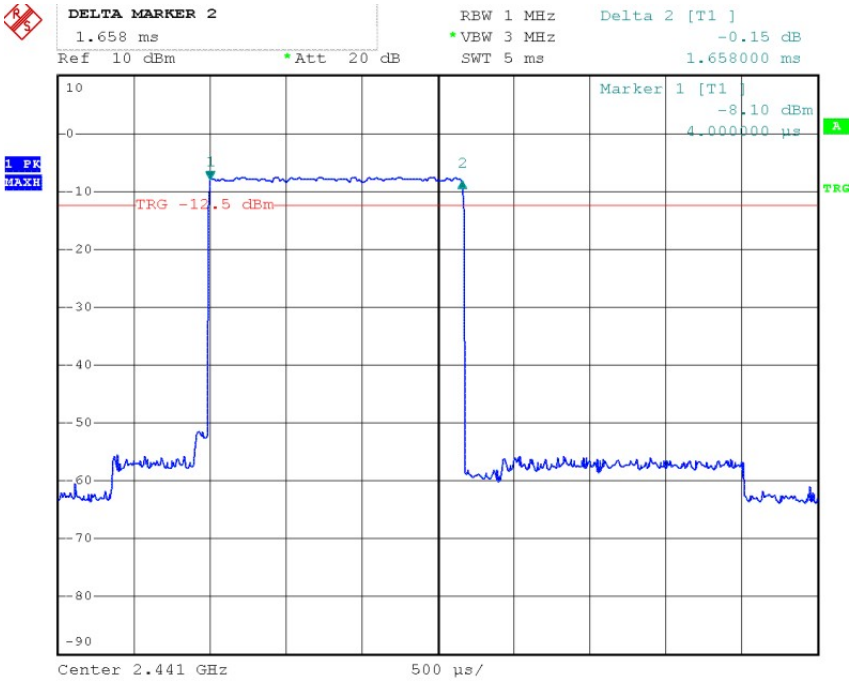
Channel High



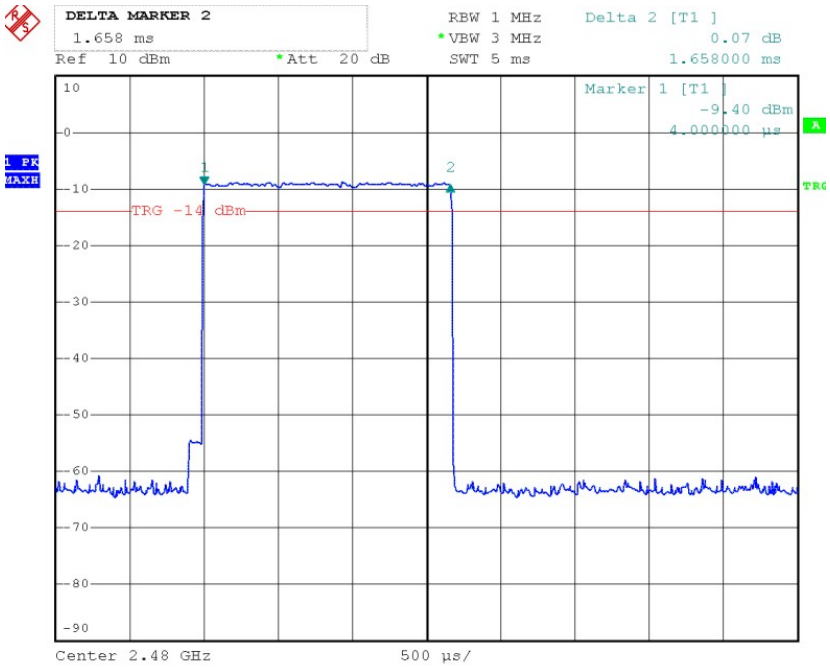
EDR 2M 2DH3
Channel Low



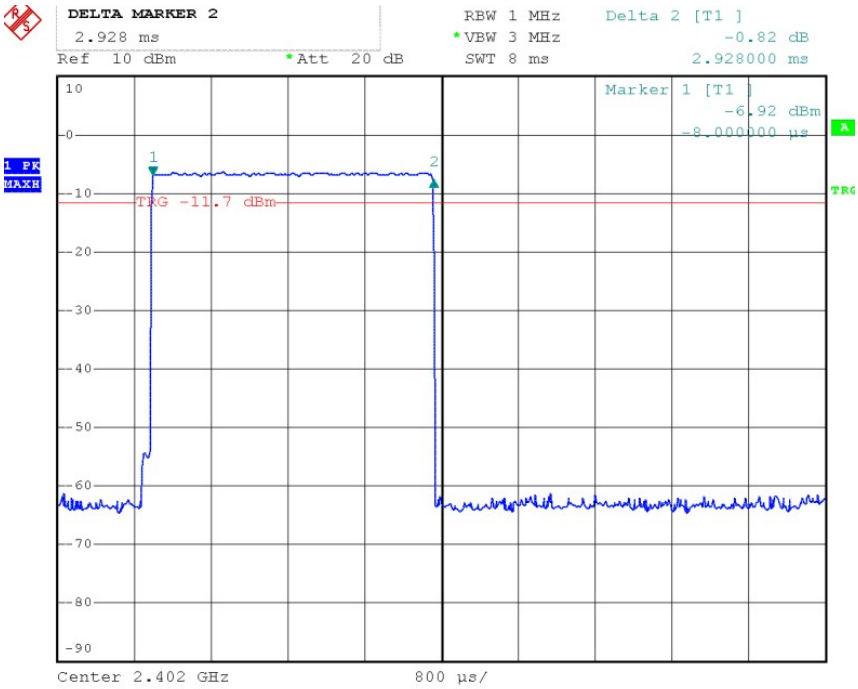
Channel Middle



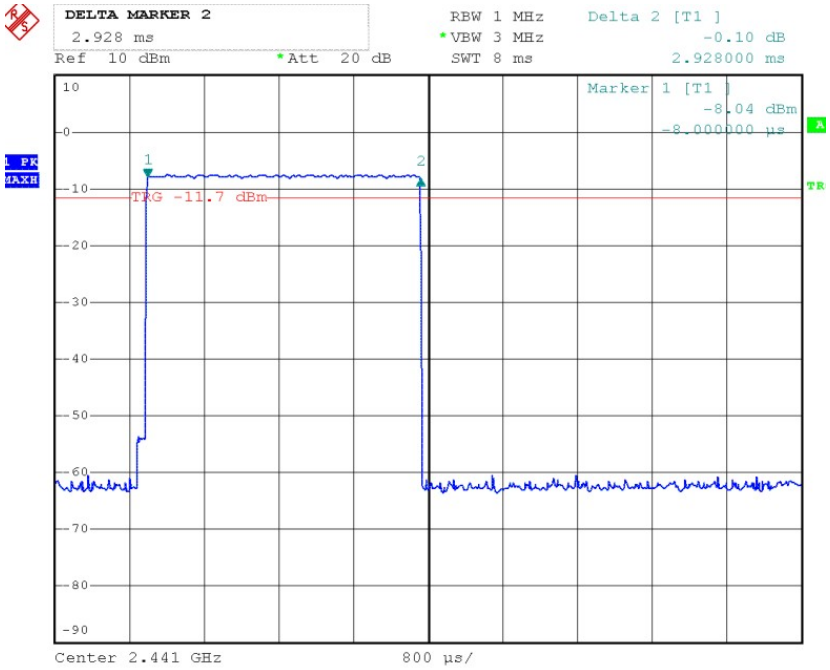
Channel High



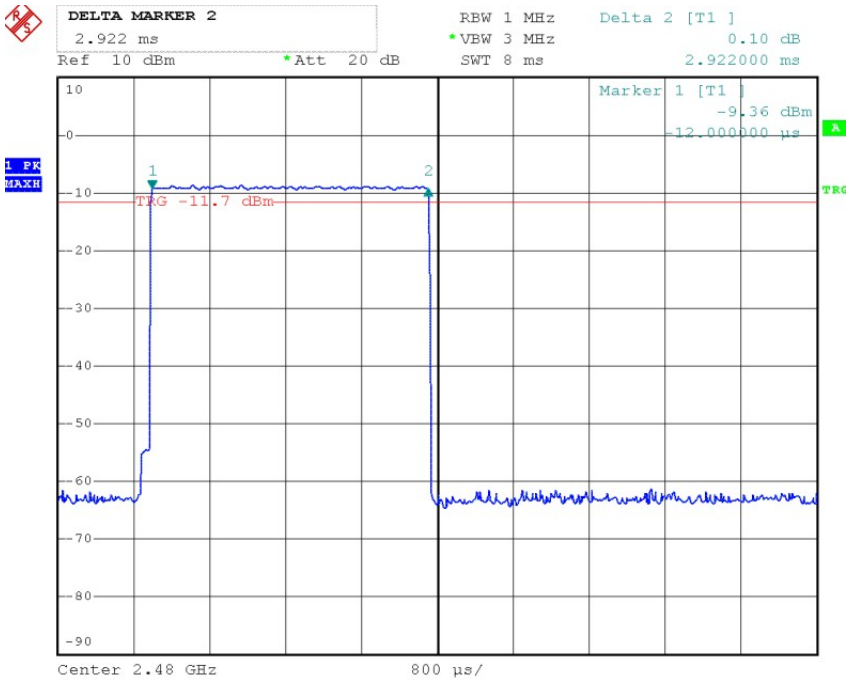
EDR 2M 2DH5
Channel Low



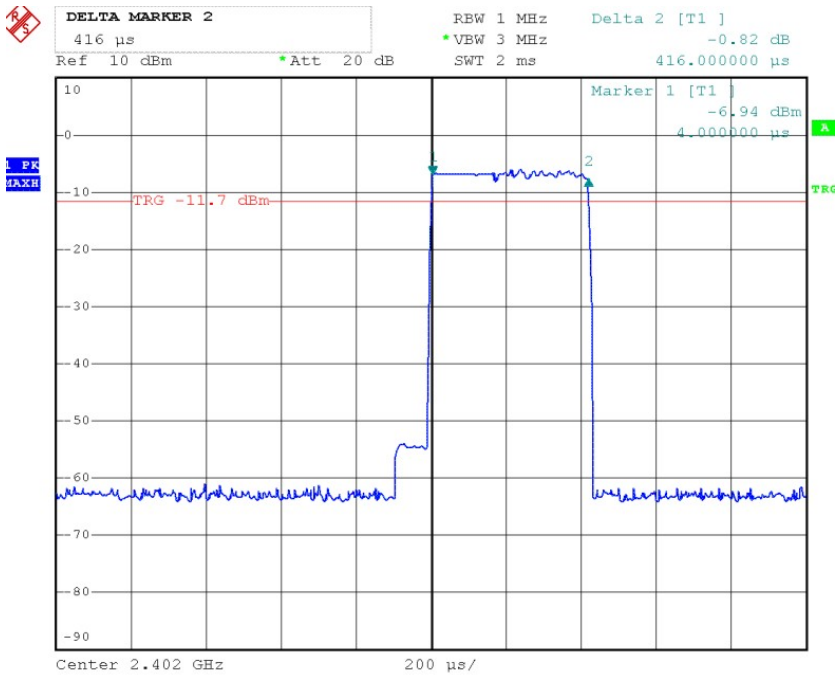
Channel Middle



Channel High



EDR 3M 3DH1
Channel Low



Channel Middle