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Report No.: SZEM180700624406

Page: 1 of 75

FCC TEST REPORT

Application No.: SZEM1807006244RG
Applicant: Huawei Technologies Co.,Ltd.
Address of Applicant: Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C
Manufacturer: Huawei Technologies Co.,Ltd.
Address of Manufacturer: Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C
Product Name: Tablet
Model No.(EUT): AGS2-W19
Trade Mark: HUAWEI
FCC ID: QISAGS2-W19
Standards: 47 CFR Part 15, Subpart C
Test Method: ANSI C63.10 (2013)
Date of Receipt: 2018-07-10
Date of Test: 2018-07-11 to 2018-07-23
Date of Issue: 2018-07-24

Test Result:	PASS *
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Derek Yang

Wireless Laboratory Manager



The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2018-07-24		Original

Authorized for issue by:			
Tested By		 <hr/> (Mike Hu) /Project Engineer	2018-07-24 <hr/> Date
Checked By		 <hr/> (Jim Huang) /Reviewer	2018-07-24 <hr/> Date



2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 (2013)	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 (2013)	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	ANSI C63.10 (2013)	PASS
20dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	ANSI C63.10 (2013)	PASS
Carrier Frequencies Separation	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	ANSI C63.10 (2013)	PASS
Hopping Channel Number	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	ANSI C63.10 (2013)	PASS
Dwell Time	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	ANSI C63.10 (2013)	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 (2013)	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 (2013)	PASS
Radiated Spurious emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 (2013)	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 (2013)	PASS



Contents

	Page
1 VERSION	2
2 TEST SUMMARY	3
3 GENERAL INFORMATION	5
3.1 CLIENT INFORMATION	5
3.2 GENERAL DESCRIPTION OF EUT	5
3.3 TEST ENVIRONMENT	7
3.4 DESCRIPTION OF SUPPORT UNITS	7
3.5 TEST LOCATION	7
3.6 TEST FACILITY	7
3.7 DEVIATION FROM STANDARDS	8
3.8 ABNORMALITIES FROM STANDARD CONDITIONS	8
3.9 OTHER INFORMATION REQUESTED BY THE CUSTOMER	8
3.10 MEASUREMENT UNCERTAINTY (95% CONFIDENCE LEVELS, K=2)	8
3.11 EQUIPMENT LIST	9
4 TEST RESULTS AND MEASUREMENT DATA	12
4.1 ANTENNA REQUIREMENT	12
4.2 CONDUCTED EMISSIONS	12
4.3 CONDUCTED PEAK OUTPUT POWER	16
4.4 20DB EMISSION BANDWIDTH	23
4.5 CARRIER FREQUENCIES SEPARATION	29
4.6 HOPPING CHANNEL NUMBER	33
4.7 DWELL TIME	36
4.8 BAND-EDGE FOR RF CONDUCTED EMISSIONS	43
4.9 SPURIOUS RF CONDUCTED EMISSIONS	50
4.10 RADIATED SPURIOUS EMISSION	56
4.10.1 Radiated Emission below 1GHz	59
4.10.2 Transmitter Emission above 1GHz	62
4.11 RESTRICTED BANDS AROUND FUNDAMENTAL FREQUENCY	69
5 PHOTOGRAPHS - EUT CONSTRUCTIONAL DETAILS	75



3 General Information

3.1 Client Information

Applicant:	Huawei Technologies Co.,Ltd.
Address of Applicant:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C
Manufacturer:	Huawei Technologies Co.,Ltd.
Address of Manufacturer:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

3.2 General Description of EUT

Product Name:	Tablet
Model No.:	AGS2-W19
Trade Mark:	HUAWEI
Hardware Version:	A6t6e
Software Version:	AGS2-W19 8.0.0.11 (C605)
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V4.2 Dual mode
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Sample Type:	Portable production
Antenna Type:	PIFA
Antenna Gain:	0.1dBi
Power Supply	Battery Model: HB2899C0ECW-C Rated capacity: 4980mAh Nominal Voltage: --- +3.82V Charging Voltage: --- +4.40V
AC adaptor:	Model: HW-050100U01 Input: 100-240V ~50/60Hz 0.2A Output: 5V --- 1A



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
6	2408MHz	26	2428MHz	46	2448MHz	66	2468MHz
7	2409MHz	27	2429MHz	47	2449MHz	67	2469MHz
8	2410MHz	28	2430MHz	48	2450MHz	68	2470MHz
9	2411MHz	29	2431MHz	49	2451MHz	69	2471MHz
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
12	2414MHz	32	2434MHz	52	2454MHz	72	2474MHz
13	2415MHz	33	2435MHz	53	2455MHz	73	2475MHz
14	2416MHz	34	2436MHz	54	2456MHz	74	2476MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel	2402MHz
The Middle channel	2441MHz
The Highest channel	2480MHz



3.3 Test Environment

Operating Environment	
Temperature:	24.0 °C
Humidity:	55 % RH
Atmospheric Pressure:	101.30 KPa

3.4 Description of Support Units

The EUT has been tested independent unit.

3.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China.
518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

3.6 Test Facility

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

• **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 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.

• **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• **Industry Canada (IC)**

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1,



4620C-2, 4620C-3.

3.7 Deviation from Standards

None.

3.8 Abnormalities from Standard Conditions

None.

3.9 Other Information Requested by the Customer

None.

3.10 Measurement Uncertainty (95% confidence levels, k=2) 、

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	$\pm 0.75\text{dB}$
2	RF power density, conducted	$\pm 2.84\text{dB}$
3	Spurious emissions, conducted	$\pm 0.75\text{dB}$
4	Radiated Spurious emission test	$\pm 4.5\text{dB}$ (30MHz-1GHz)
		$\pm 4.8\text{dB}$ (1GHz-25GHz)
5	Conduct emission test	$\pm 3.12\text{ dB}$ (9KHz- 30MHz)
6	Temperature test	$\pm 1^\circ\text{C}$
7	Humidity test	$\pm 3\%$
8	DC and low frequency voltages	$\pm 0.5\%$



3.11 Equipment List

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Duedate (yyyy-mm-dd)
1	Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2018/3/10	2019/3/9
2	LISN	Rohde & Schwarz	ENV216	SEM007-01	2017/10/09	2018/10/09
3	LISN	ETS-LINDGREN	3816/2	SEM007-02	2018/2/14	2019/2/13
4	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	EMC0120	2017/09/28	2018/09/28
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	EMC0121	2017/09/28	2018/09/28
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2017/09/28	2018/09/28
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2018/2/14	2019/2/13
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2017/10/09	2018/10/09

RF connected test						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Duedate (yyyy-mm-dd)
1	DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2017/10/09	2018/10/09
2	Signal Analyzer	Rohde &Schwarz	FSV	W005-02	2018/3/13	2019/3/12
3	Signal Generator	Rohde &Schwarz	SML03	SEM006-02	2018/2/14	2019/2/13
4	Power Meter	Rohde &Schwarz	NRVS	SEM014-02	2017/10/09	2018/10/09
5	Power Sensor	Agilent Technologies	U2021XA	SEM009-01	2017/10/09	2018/10/09



RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2018/3/10	2019/3/9
2	EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2017/10/09	2018/10/09
3	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017/11/01	2020/11/01
4	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEM003-11	2015/10/17	2018/10/17
5	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEM003-12	2017/11/24	2020/11/24
6	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2018/2/14	2019/2/13
7	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2017/10/09	2018/10/09
9	Loop Antenna	Beijing Daze	ZN30401	SEM003-09	2018/3/10	2019/3/9

RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
1	10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018/3/10	2019/3/9
2	EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2018/2/14	2019/2/13
3	Trilog-Broadband Antenna(30M-1GHz)	Schwarzbeck	VULB9168	SEM003-18	2016/06/29	2019/06/29
4	Pre-amplifier	Sonoma Instrument Co	310N	SEM005-03	2018/6/18	2019/6/17
5	.Loop Antenna	ETS-Lindgren	6502	SEM003-08	2015/08/14	2018/08/14



RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/10	2019/3/9
2	EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-09	2018/6/18	2019/6/17
3	BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2017/11/15	2020/11/15
4	Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2017/10/09	2018/10/09
5	Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/5/14	2020/5/13
6	Horn Antenna (18-26GHz)	ETS-Lindgren	3160	SEM003-12	2017/11/24	2020/11/24
7	HornAntenna (26GHz-40GHz)	A.H.Systems, inc.	SAS-573	SEM003-13	2017/10/17	2020/10/16
8	Low Noise Amplifier	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2017/10/09	2018/10/09
9	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A



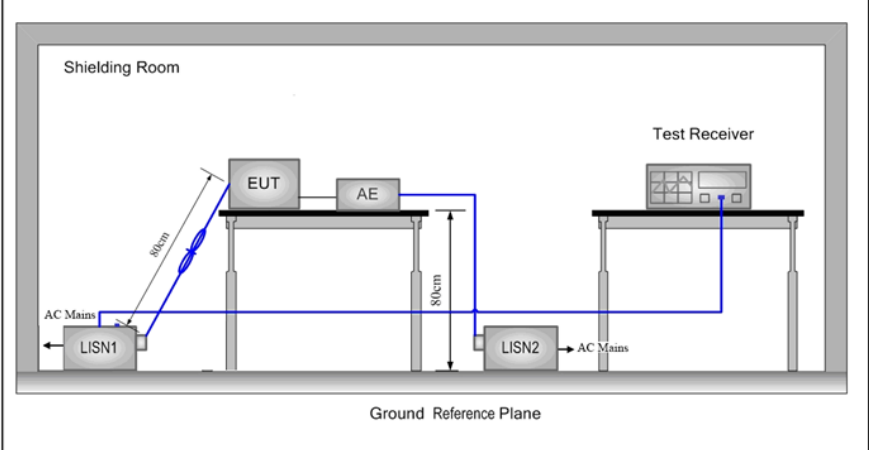
4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
<p>15.203 requirement: 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, 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.</p> <p>15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p>	
<p>The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0.1dBi.</p>	

4.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	* Decreases with the logarithm of the frequency.		
Test Procedure:	<ol style="list-style-type: none"> 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was 		

	<p>between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.</p> <p>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</p>
<p>Test Setup:</p>	
<p>Exploratory Test Mode:</p>	<p>Non-hopping transmitting mode with all kind of modulation and all kind of data type at the lowest, middle, high channel. Charge + Transmitting mode.</p>
<p>Final Test Mode:</p>	<p>Through Pre-scan, find the DH1 of data type and GFSK modulation at the lowest channel is the worst case. Charge + Transmitting mode Only the worst case is recorded in the report.</p>
<p>Instruments Used:</p>	<p>Refer to section 5.10 for details</p>
<p>Test Results:</p>	<p>Pass</p>

Note1 : Mode C=Telecom Idle+BT+WLAN 2.4G+GPS Rx+earphone+playing MP4+battery+adapter1

Note2: Only the worse test data had been displayed



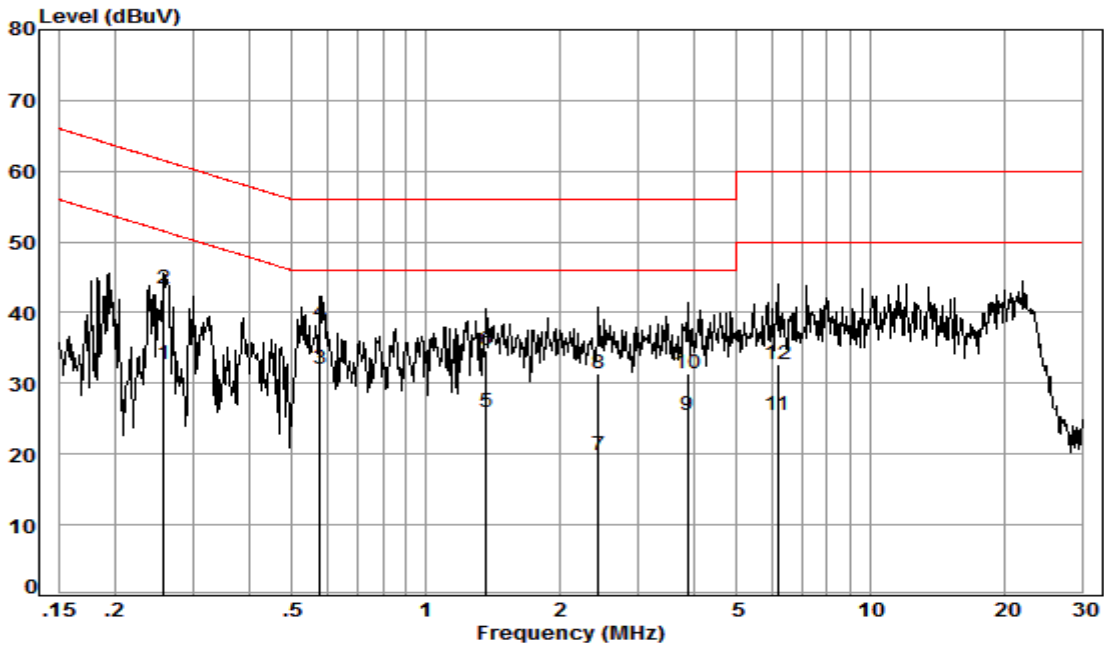
Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live

line:



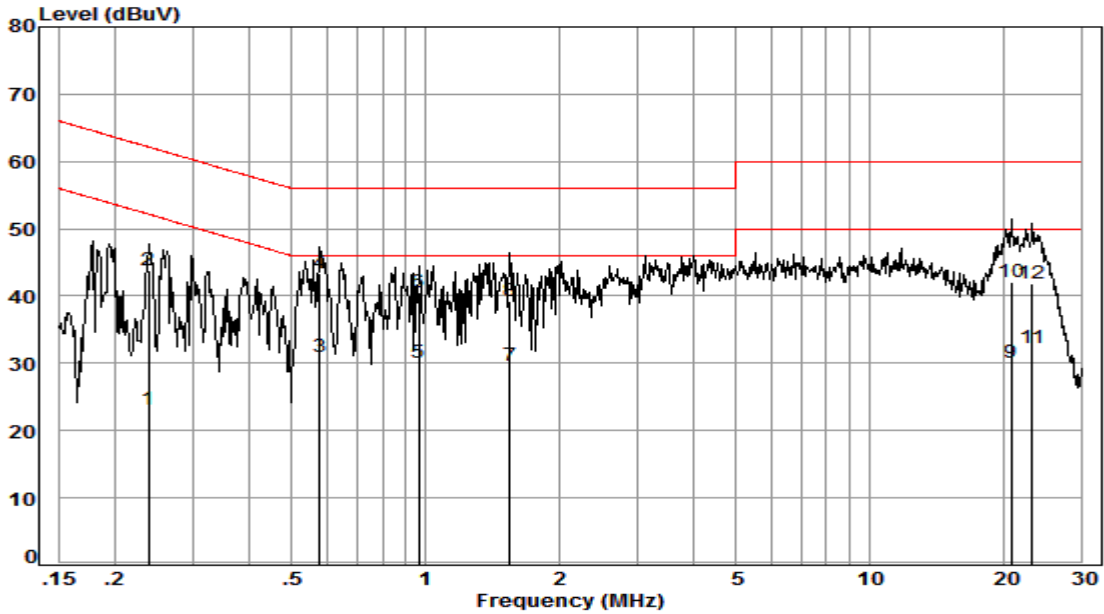
Site : Shielding Room
 Condition: Line
 Job No. : 06244RG
 Test mode: c

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.26	0.03	9.51	23.10	32.64	51.51	-18.87	Average
2	0.26	0.03	9.51	33.75	43.29	61.51	-18.22	QP
3	0.58	0.05	9.52	22.41	31.98	46.00	-14.02	Average
4	0.58	0.05	9.52	28.91	38.48	56.00	-17.52	QP
5	1.37	0.12	9.51	16.23	25.86	46.00	-20.14	Average
6	1.37	0.12	9.51	25.13	34.76	56.00	-21.24	QP
7	2.45	0.17	9.52	10.05	19.74	46.00	-26.26	Average
8	2.45	0.17	9.52	21.69	31.38	56.00	-24.62	QP
9	3.88	0.19	9.54	15.76	25.49	46.00	-20.51	Average
10	3.88	0.19	9.54	21.58	31.31	56.00	-24.69	QP
11	6.19	0.19	9.58	15.65	25.42	50.00	-24.58	Average
12	6.19	0.19	9.58	22.92	32.69	60.00	-27.31	QP



Neutral

line:



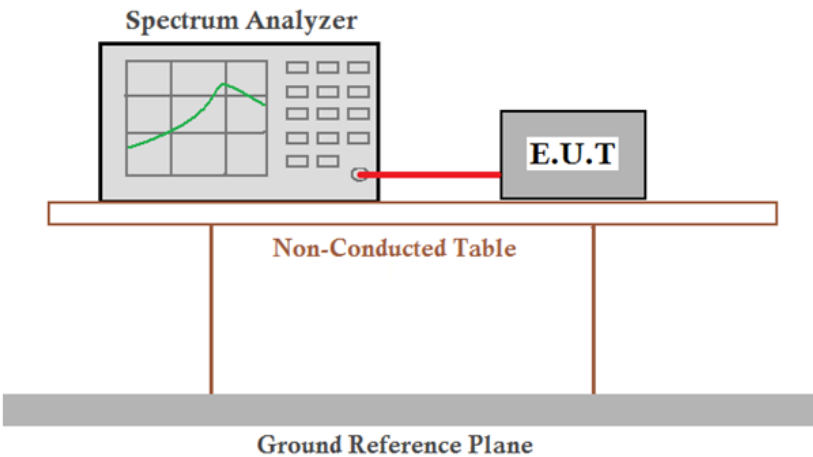
Site : Shielding Room
Condition: Neutral
Job No. : 06244RG
Test mode: c

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.24	0.03	9.58	13.58	23.19	52.17	-28.98	Average
2	0.24	0.03	9.58	34.10	43.71	62.17	-18.46	QP
3	0.58	0.05	9.62	21.20	30.87	46.00	-15.13	Average
4	0.58	0.05	9.62	33.74	43.41	56.00	-12.59	QP
5	0.97	0.09	9.62	20.46	30.17	46.00	-15.83	Average
6	0.97	0.09	9.62	30.77	40.48	56.00	-15.52	QP
7	1.55	0.13	9.63	19.92	29.68	46.00	-16.32	Average
8	1.55	0.13	9.63	29.54	39.30	56.00	-16.70	QP
9	20.81	0.27	10.07	19.73	30.07	50.00	-19.93	Average
10	20.81	0.27	10.07	31.81	42.15	60.00	-17.85	QP
11	23.26	0.27	10.16	21.72	32.15	50.00	-17.85	Average
12	23.26	0.27	10.16	31.32	41.75	60.00	-18.25	QP

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

4.3 Conducted Peak Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013 Section 7.8.5
Test Setup:	 <p><i>Remark:</i> Offset the High-Frequency cable loss 1dB in the spectrum analyzer.</p>
Limit:	20.97dBm) 125mW
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type.
Final Test Mode:	Through Pre-scan, find the DH1 of data type is the worst case of GFSK modulation type, 2-DH1 of data type is the worst case of $\pi/4$ DQPSK modulation type, 3-DH1 of data type is the worst case of 8DPSK modulation type.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



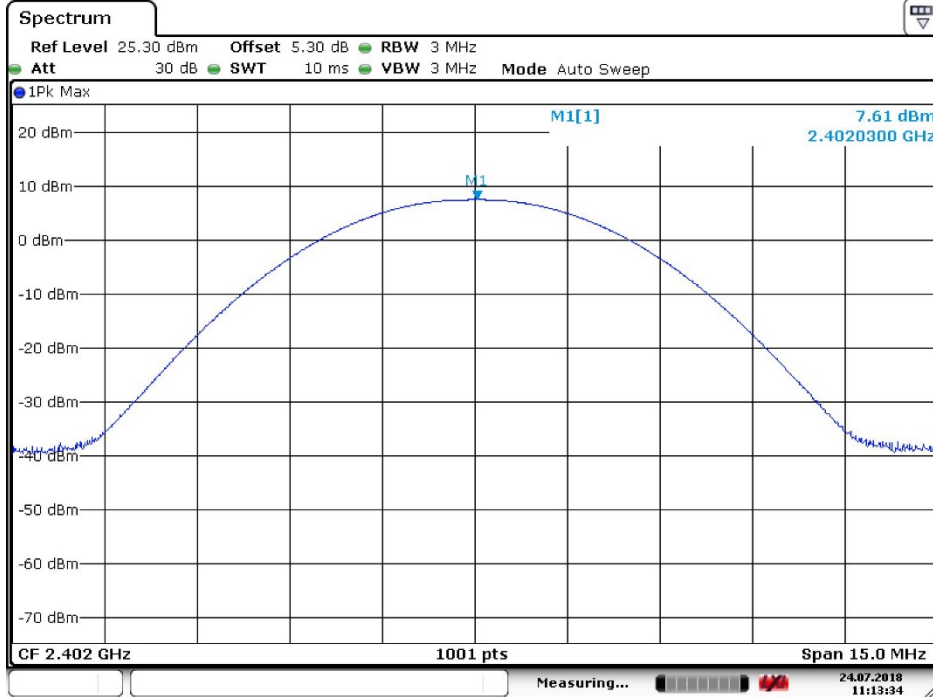
Measurement Data

GFSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	7.61	20.97	Pass
Middle	7.34	20.97	Pass
Highest	7.36	20.97	Pass
π/4DQPSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	8.29	20.97	Pass
Middle	7.06	20.97	Pass
Highest	7.96	20.97	Pass
8DPSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	8.45	20.97	Pass
Middle	8.07	20.97	Pass
Highest	8.11	20.97	Pass



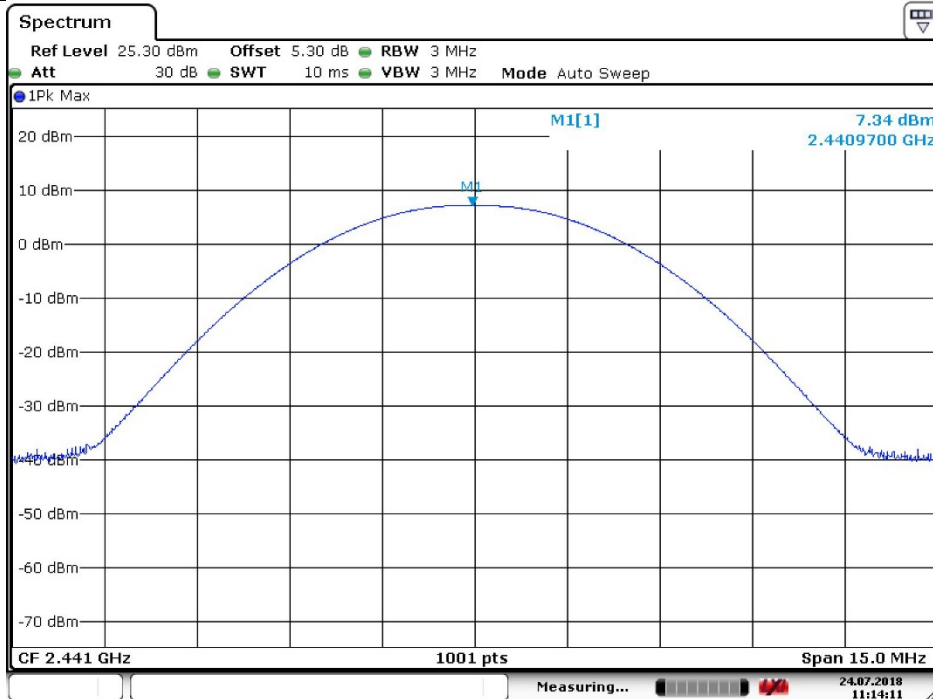
Test plot as follows:

Test mode:	GFSK	Test channel:	Lowest
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Date: 24 JUL 2018 11:13:35

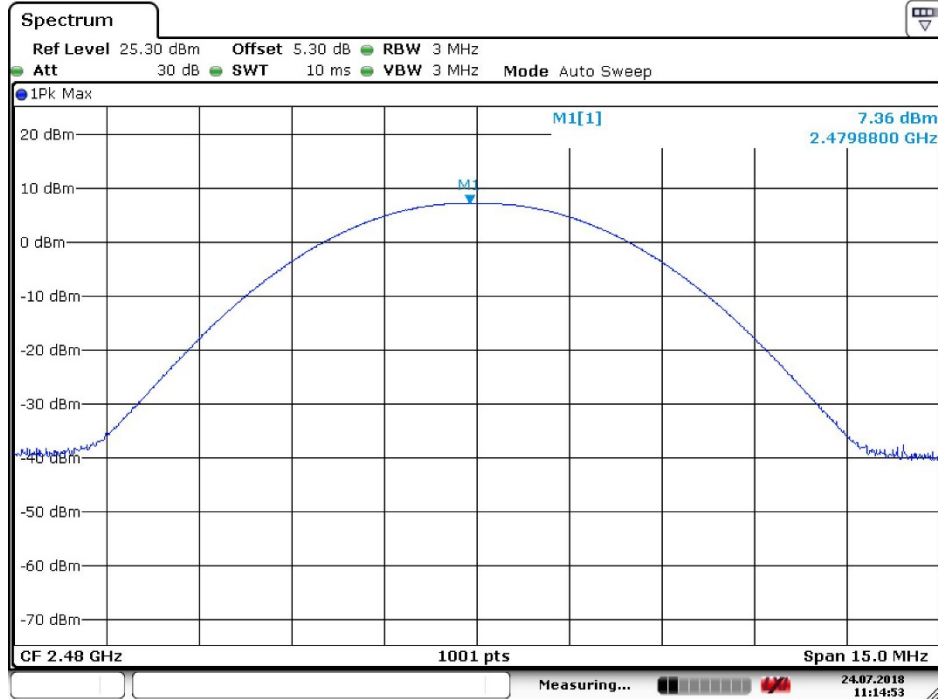
Test mode:	GFSK	Test channel:	Middle
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Date: 24 JUL 2018 11:14:12

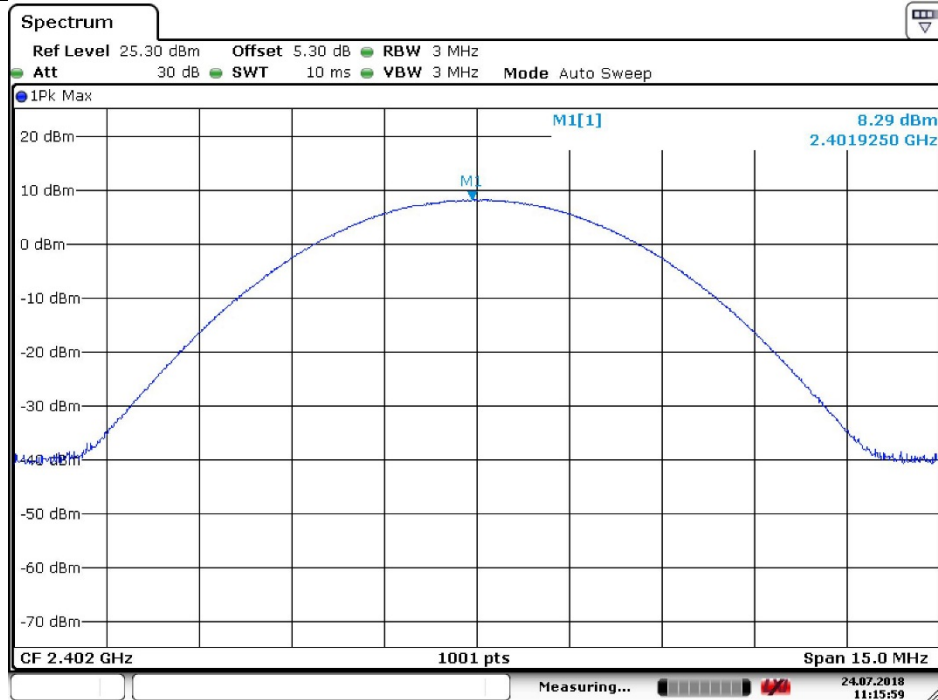


Test mode: GFSK Test channel: Highest



Date: 24 JUL 2018 11:14:53

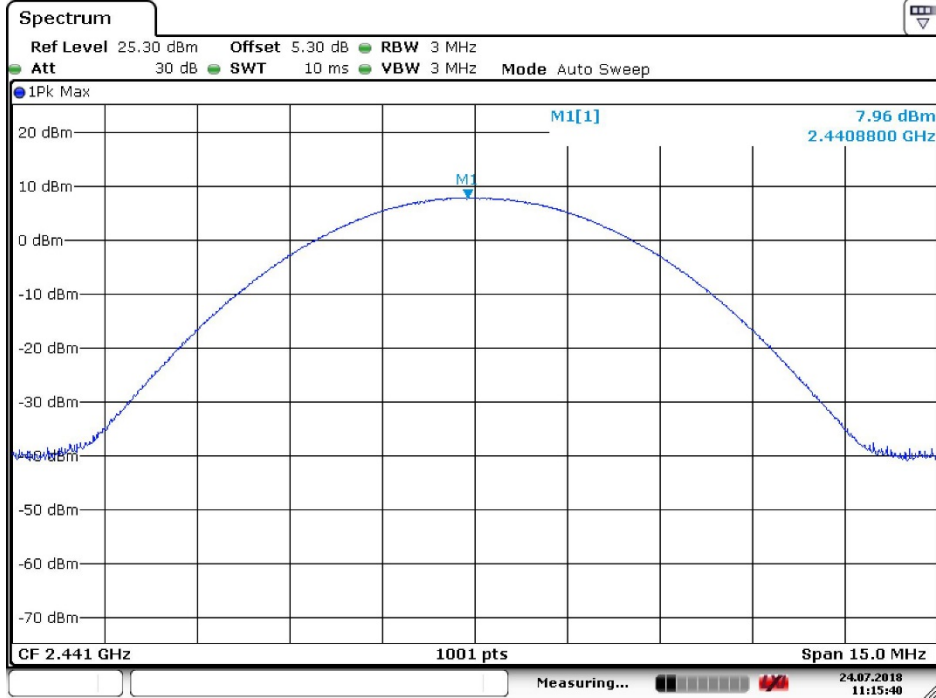
Test mode: $\pi/4$ DQPSK Test channel: Lowest



Date: 24 JUL 2018 11:15:59

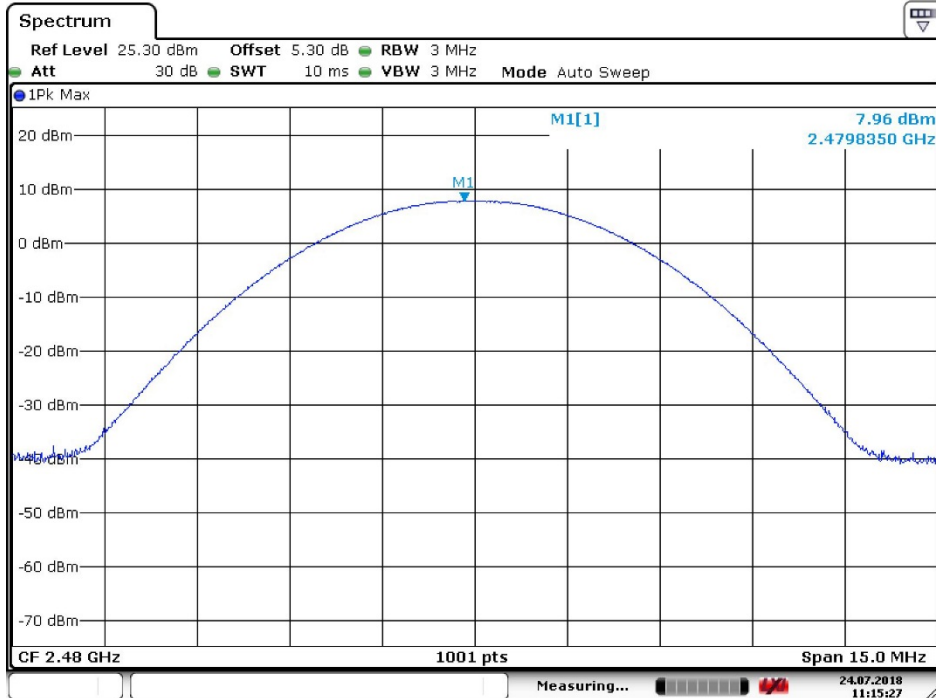


Test mode:	$\pi/4$ DQPSK	Test channel:	Middle
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Date: 24 JUL 2018 11:15:40

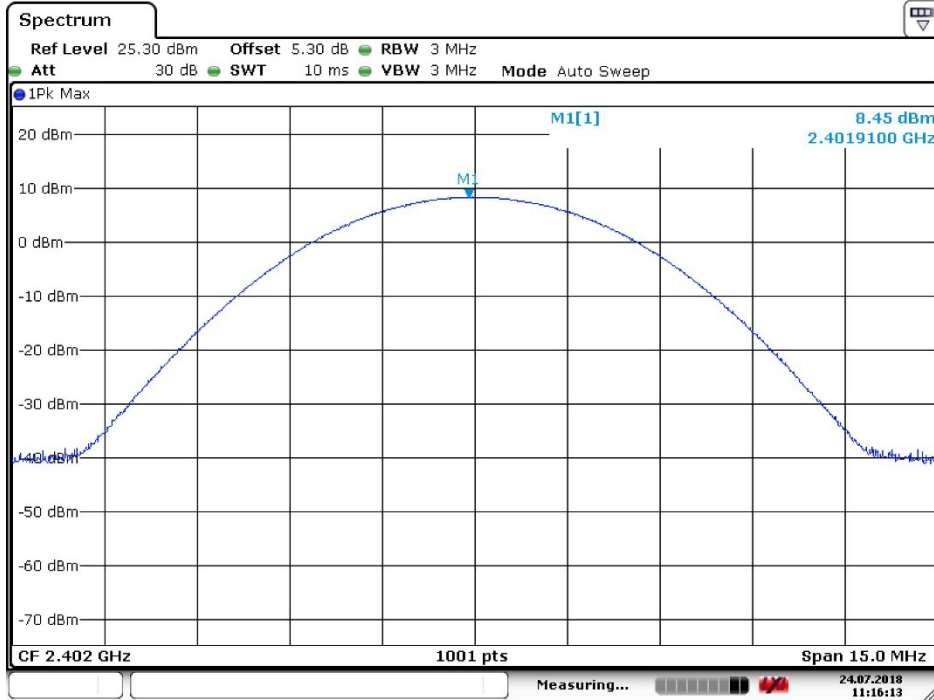
Test mode:	$\pi/4$ DQPSK	Test channel:	Highest
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Date: 24 JUL 2018 11:15:27

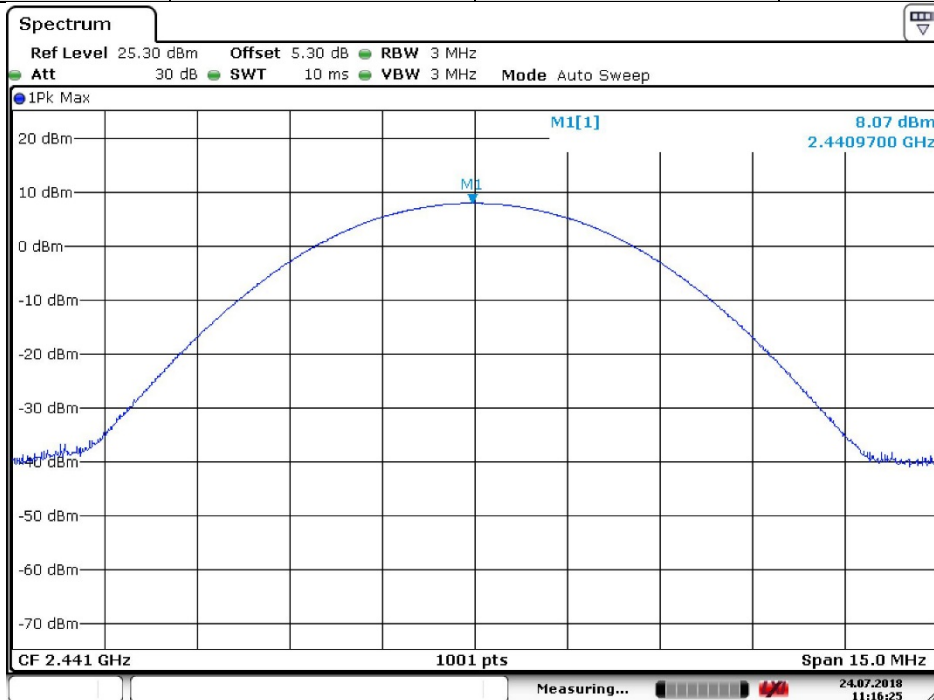


Test mode:	8DPSK	Test channel:	Lowest
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Date: 24 JUL 2018 11:16:12

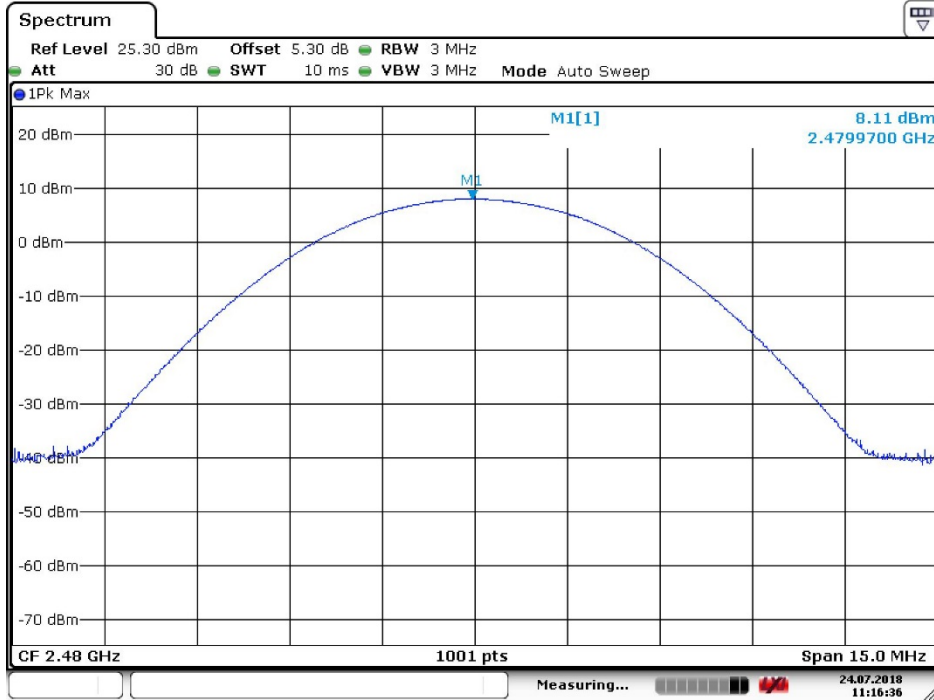
Test mode:	8DPSK	Test channel:	Middle
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Date: 24 JUL 2018 11:16:25

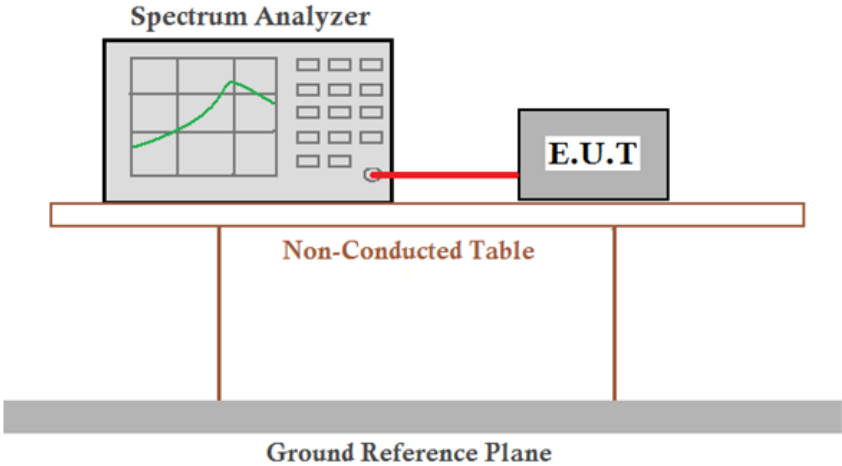


Test mode:	8DPSK	Test channel:	Highest
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Date: 24.JUL.2018 11:16:37

4.4 20dB Emission Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013 Section 7.8.7
Test Setup:	
Limit:	NA
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type.
Final Test Mode:	Through Pre-scan, find the DH1 of data type is the worst case of GFSK modulation type, 2-DH1 of data type is the worst case of $\pi/4$ DQPSK modulation type, 3-DH1 of data type is the worst case of 8DPSK modulation type.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

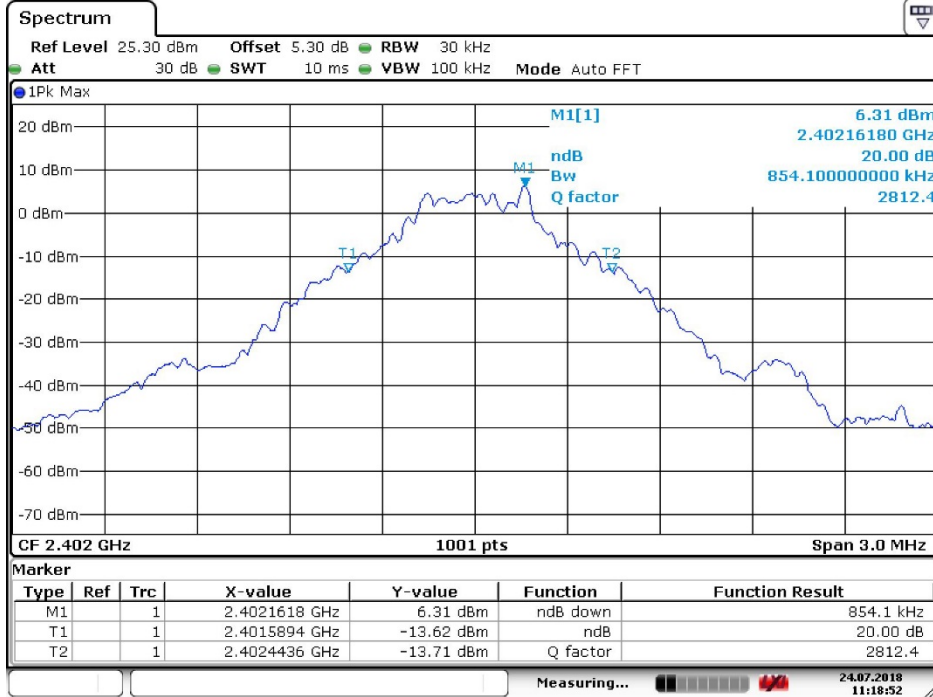
Measurement Data

Test channel	20dB Emission Bandwidth (kHz)		
	GFSK	$\pi/4$ DQPSK	8DPSK
Lowest	854.1	1267.2	1216.8
Middle	857.1	1264.7	1216.8
Highest	857.1	1264.7	1252.7



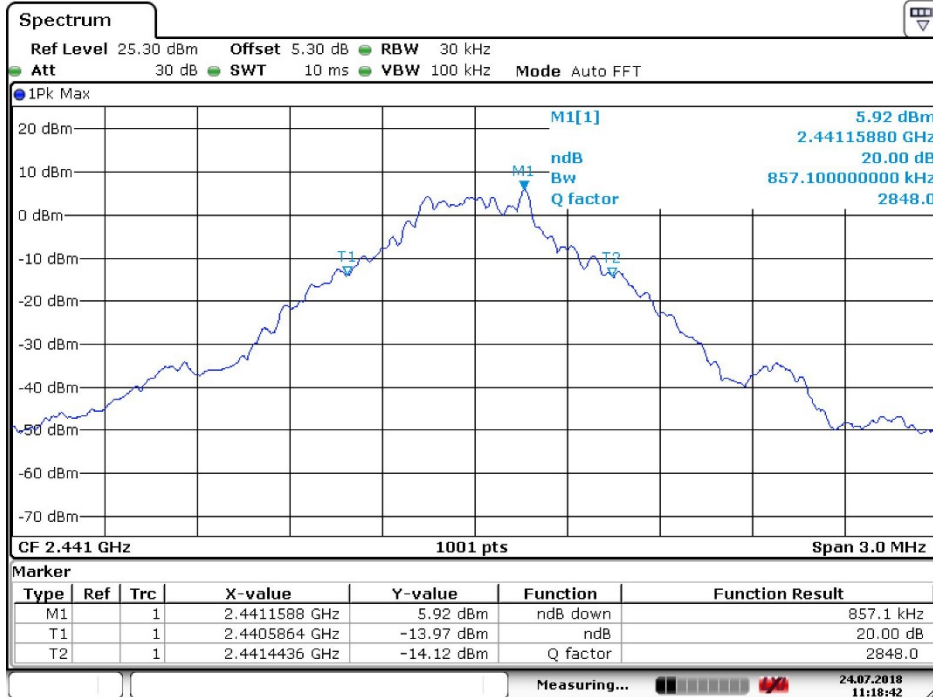
Test plot as follows:

Test mode:	GFSK	Test channel:	Lowest
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Date: 24 JUL 2018 11:18:52

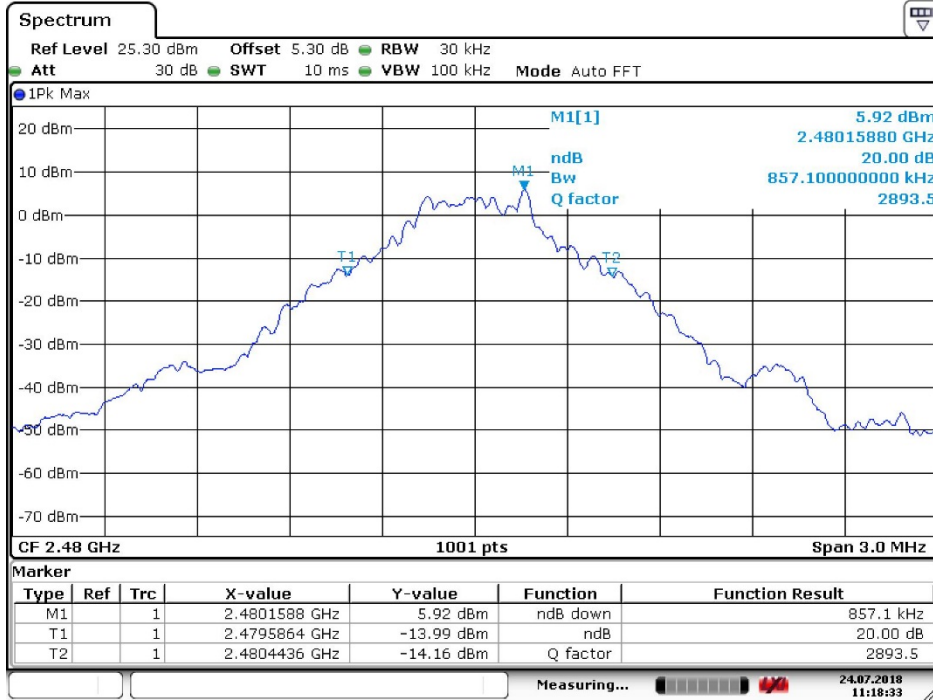
Test mode:	GFSK	Test channel:	Middle
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Date: 24 JUL 2018 11:18:42

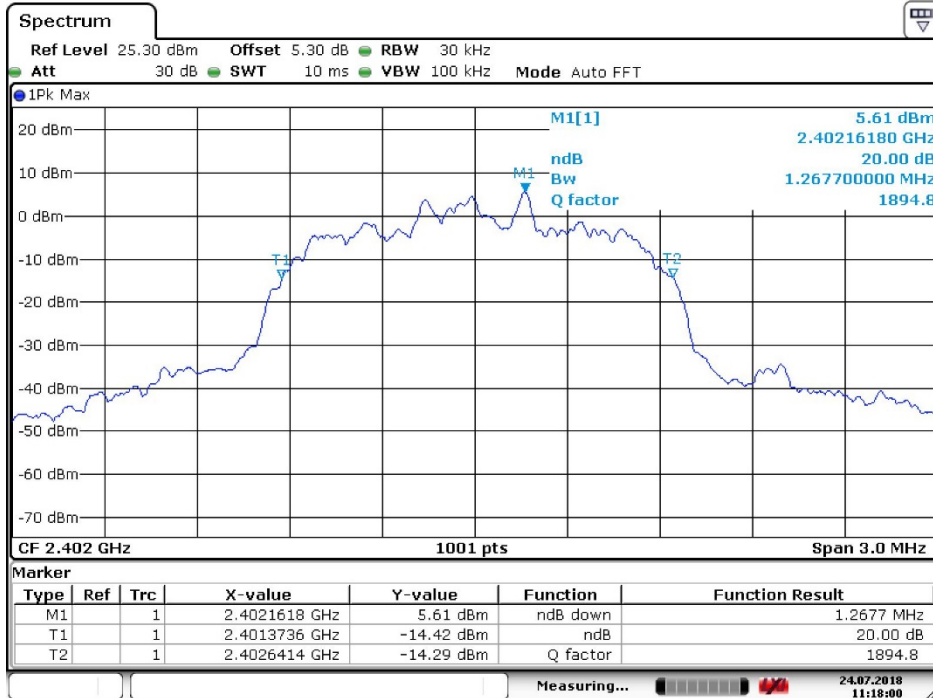


Test mode:	GFSK	Test channel:	Highest
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Date: 24 JUL 2018 11:18:32

Test mode:	$\pi/4$ DQPSK	Test channel:	Lowest
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Date: 24 JUL 2018 11:18:00

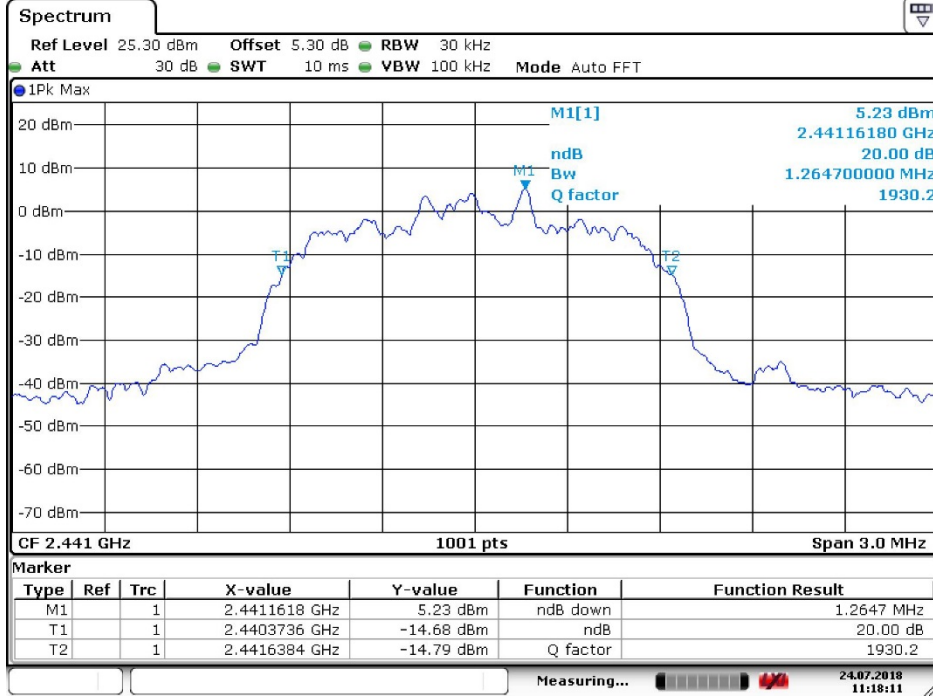


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Report No.: SZEM180700624406

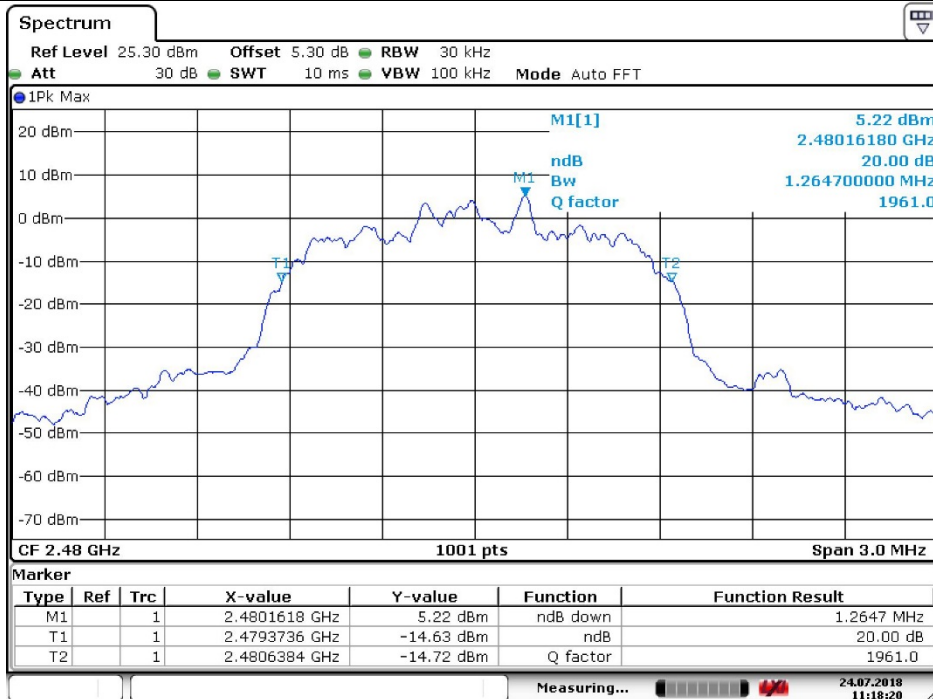
Page: 26 of 75

Test mode:	$\pi/4$ DQPSK	Test channel:	Middle
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Date: 24 JUL 2018 11:18:11

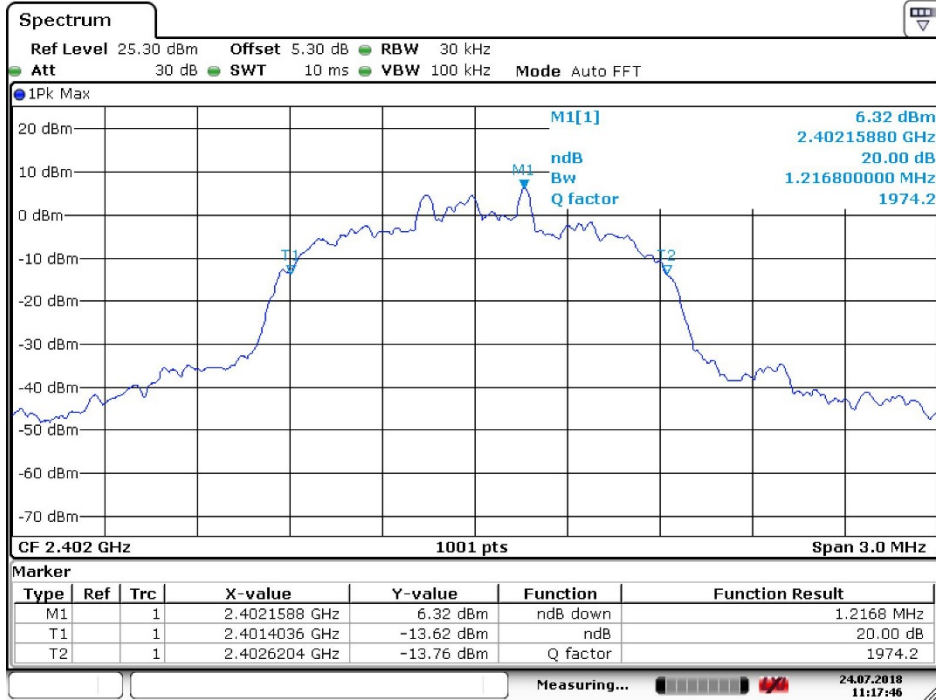
Test mode:	$\pi/4$ DQPSK	Test channel:	Highest
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Date: 24 JUL 2018 11:18:21

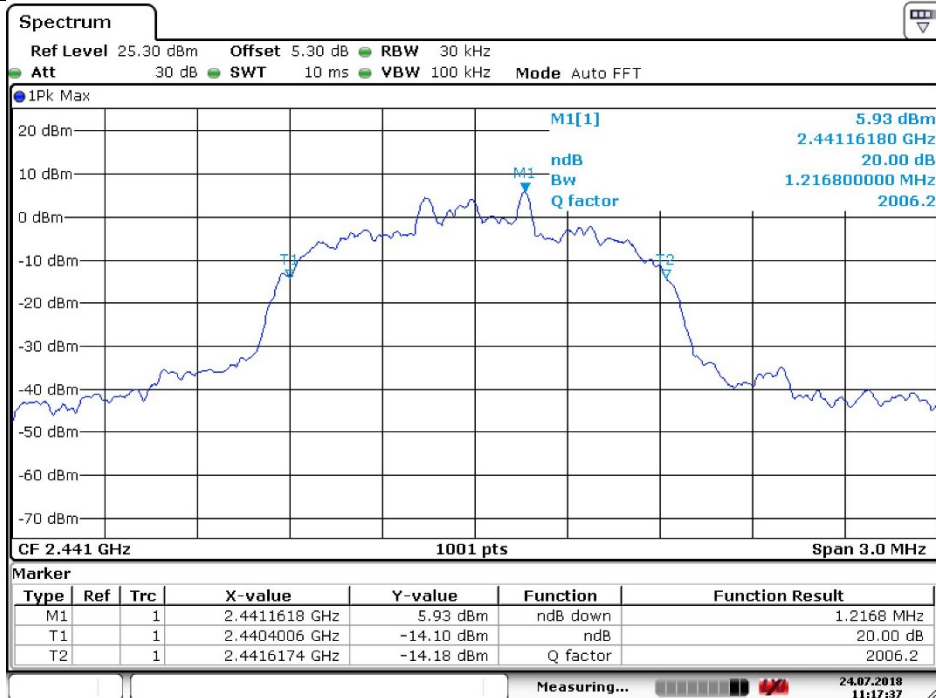


Test mode:	8DPSK	Test channel:	Lowest
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Date: 24.JUL.2018 11:17:46

Test mode:	8DPSK	Test channel:	Middle
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Date: 24.JUL.2018 11:17:37