

FCC

RF

TEST REPORT

ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
Tablet

ISSUED TO
Evoo Products Company, LLC

2651 Fairfax Avenue Culver City, CA 90232



Tested by: Heng Aiping
Heng Aiping
(Engineer)

Date: Oct. 18, 2019

Approved by: Wei Yanquan
Wei Yanquan
(Chief Engineer)

Date: Oct. 28, 2019

Report No.: BL-SZ1970050-601

EUT Name: Tablet

Model Name: EV-A-81-8-2 (refer section 2.4)

Brand Name: EVOO

Test Standard: 47 CFR Part 15 Subpart C

FCC ID: 2ATQQEV-A-81-8-2

Test conclusion: Pass

Test Date: Jul. 23, 2019 ~ Oct. 11, 2019

Date of Issue: Oct. 28, 2019

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Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Oct. 28, 2019</u>	<u>Initial Issue</u>

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1 ADMINISTRATIVE DATA (GENERAL INFORMATION)

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1. The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196. The laboratory is a testing organization accredited by American Association for Laboratory Accreditation(A2LA) according to ISO/IEC 17025.The accreditation certificate is 4344.01. The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6791.
Description	All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055

1.3 Laboratory Condition

Ambient Temperature	20°C to 25°C
Ambient Relative Humidity	45% to 55%
Ambient Pressure	100 kPa to 102 kPa

1.4 Announce

- (1) The test report reference to the report template version v5.7.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Evoo Products Company, LLC
Address	2651 Fairfax Avenue Culver City, CA 90232

2.2 Manufacturer Information

Manufacturer	HeYuan Vastking Electronic Co.,Ltd.
Address	No.13, Hepu Road, Yuancheng, Heyuan, Guangdong

2.3 Factory Information

Factory	HeYuan Vastking Electronic Co.,Ltd.
Address	No.13, Hepu Road, Yuancheng, Heyuan, Guangdong

2.4 General Description for Equipment under Test (EUT)

EUT Name	Tablet																		
Model Name Under Test	EV-A-81-8-2																		
Series Model Name	EV-A-81-8-2-BK, EV-A-81-8-2-BL, EV-A-81-8-2-PK, EV-A-101-3, EV-A-101-3-BK, EV-A-101-3-BL, EV-A-101-3-PK, EV-A-101-3-BKKB, EV-A-101-3-BLKB, EV-A-101-3-PKKB, EV-A-116-1, EV-A-116-1-BK, EV-A-116-1-BL, EV-A-116-1-PK, EV-A-116-1-BKKB, EV-A-116-1-BLKB, EV-A-116-1-PKKB																		
Description of Model name differentiation	1, EV-A-81-8-2, EV-A-81-8-2-BK, EV-A-81-8-2-BL, EV-A-81-8-2-PK means different colors, 2, EV-A-101-3, EV-A-101-3-BK, EV-A-101-3-BL, EV-A-101-3-PK means different colors 3, EV-A-116-1, EV-A-116-1-BK, EV-A-116-1-BL, EV-A-116-1-PK means different colors 4, EV-A-101-3-BKKB, EV-A-101-3-BLKB, EV-A-101-3-PKKB with a keyboard 5, EV-A-116-1-BKKB, EV-A-116-1-BLKB, EV-A-116-1-PKKB with a keyboard 6, EV-A-81-8-2 , EV-A-101-3, EV-A-116-1 have different as below: <table border="1"> <thead> <tr> <th>Model</th><th>Size</th><th>Battery Model</th><th>Adapter model</th></tr> </thead> <tbody> <tr> <td>EV-A-81-8-2</td><td>8 inch</td><td>30100105</td><td>NA010050020</td></tr> <tr> <td>EV-A-101-3</td><td>10.1 inch</td><td>3060145-2P</td><td>NA010050020</td></tr> <tr> <td>EV-A-116-1</td><td>11.5 inch</td><td>3082120-2P</td><td>SAW20-050-2500UB</td></tr> </tbody> </table>			Model	Size	Battery Model	Adapter model	EV-A-81-8-2	8 inch	30100105	NA010050020	EV-A-101-3	10.1 inch	3060145-2P	NA010050020	EV-A-116-1	11.5 inch	3082120-2P	SAW20-050-2500UB
Model	Size	Battery Model	Adapter model																
EV-A-81-8-2	8 inch	30100105	NA010050020																
EV-A-101-3	10.1 inch	3060145-2P	NA010050020																
EV-A-116-1	11.5 inch	3082120-2P	SAW20-050-2500UB																
Hardware Version	R863H REV: 2.0																		
Software Version	Android 8.1																		
Dimensions (Approx.)	N/A																		
Weight (Approx.)	N/A																		

2.5 Technical Information

Network and Wireless connectivity	Bluetooth 4.2 (BR+EDR+BLE) WIFI 802.11b, 802.11g, 802.11n(HT20/40)
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The requirement for the following technical information of the EUT was tested in this report:

Modulation Technology	FHSS
Modulation Type	GFSK, $\pi/4$ -DQPSK, 8-DPSK
Product Type	☐ Mobile ☒ Portable ☐ Fix Location
Transfer Rate	DH5: 1 Mbps 2DH5: 2 Mbps 3DH5: 3 Mbps
Frequency Range	The frequency range used is 2400 MHz to 2483.5 MHz.
Number of channel	79 (at intervals of 1 MHz)
Tested Channel	0 (2402 MHz), 39 (2441 MHz), 78 (2480 MHz)
Antenna Type	PIFA Antenna
Antenna Gain	0.95 dBi (In test items related to antenna gain, the final results reflect this figure.)
Antenna Impedance	50 Ω
Antenna System(MIMO Smart Antenna)	N/A

All channel was listed on the following table:

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

2.6 Additional Instructions

EUT Software Settings:

Mode	☒ Special software is used. The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.
------	--

Power level setup in software			
Test Software Version	adb		
Support Units (Software installation media)	Description	Manufacturer	Model
	Notebook	Aigo	N/A
Mode	Channel	Frequency (MHz)	Soft Set
DH5	CH0	2402	TX LEVEL is built-in set parameters and cannot be changed and selected.
	CH39	2441	
	CH78	2480	
2DH5	CH0	2402	
	CH39	2441	
	CH78	2480	
3DH5	CH0	2402	
	CH39	2441	
	CH78	2480	

Run Software:

```

管理员: 命令提示符 - adb shell
Microsoft Windows [版本 6.1.7601]
版权所有 (c) 2009 Microsoft Corporation。保留所有权利。

C:\Users\IT>adb root
* daemon not running. starting it now on port 5037 *
* daemon started successfully *
adb is already running as root

C:\Users\IT>adb remount
remount succeeded

C:\Users\IT>adb shell
rk3326_mid:/ # rtlbtmp
rtlbtmp
::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::
:::::::::::: Bluetooth MP Test Tool Starting ::::::::::::::
> enable uart:/dev/ttyS1
enable uart:/dev/ttyS1
> enable[Success:0]
enable usb:/dev/rtk_btush
enable usb:/dev/rtk_btush
Skip to execute enable[BT has enabled]
> bt_mp_Exec 5
bt_mp_Exec 5
fatal error opening "/sys/power/wake_lock": Permission denied

```

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C (10-1-17 Edition)	Miscellaneous Wireless Communications Services
2	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
3	KDB 558074 D01 15.247 Meas Guidance v05r02	Guidance for compliance measurements on digital transmission system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the FCC rules

3.2 Verdict

No.	Description	FCC Part No.	Channel	Test Result	Verdict	Remark
1	Antenna Requirement	15.203	N/A	--	Pass	Note ¹
2	Number of Hopping Frequencies	15.247(a)	Hopping Mode	ANNEX A.1	Pass	Note ²
3	Peak Output Power and E.I.R.P	15.247(b)	Low/Middle/High	ANNEX A.2	Pass	--
4	Occupied Bandwidth	15.247(a)	Low/Middle/High	ANNEX A.3	Pass	Note ²
5	Carrier Frequency Separation	15.247(a)	Hopping Mode	ANNEX A.4	Pass	Note ²
6	Time of Occupancy (Dwell time)	15.247(a)	Hopping Mode	ANNEX A.5	Pass	Note ²
7	Conducted Spurious Emission & Authorized-band band-edge	15.247(d)	Low/Middle/High	ANNEX A.6	Pass	Note ²
8	Conducted Emission	15.207	Low/Middle/High	ANNEX A.7	Pass	Note ²
9	Radiated Spurious Emission	15.209 15.247(d)	Hopping Mode, Low/Middle/High	ANNEX A.8	Pass	Note ²
10	Band Edge(Restricted-band band-edge)	15.209 15.247(d)	Hopping Mode, Low/Middle/High	ANNEX A.9	Pass	Note ²
11	Receiver Spurious Emissions	--	--	--	N/A	Note ³

Note ¹: Please refer to section 5.1

Note ²: $\pi/4$ -DQPSK is the EDR 2M rate mode, 8-DPSK is the EDR 3M rate mode. The consistency of test results in $\pi/4$ -DQPSK and 8-DPSK is very high. So we chose 8-DPSK as a typical representative to appear on the report. Another we will show all the modes on the RF output power test item.

Note ³: Only radio communication receivers operating in stand-alone mode within the band 30-960 MHz, as well as scanner receivers, are subject to Industry Canada requirements, so this test is not applicable.

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	45% to 55%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+22°C to +25°C
Working Voltage of the EUT	NV (Normal Voltage)	3.8 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-30	103118	2019.06.13	2020.06.12
Switch Unit with OSP-B157	ROHDE&SCHWARZ	OSP120	101270	2019.06.13	2020.06.12
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2018.11.07	2019.11.06
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2019.06.13	2020.06.12
LISN	SCHWARZBECK	NSLK 8127	8127-687	2019.06.13	2020.06.12
Bluetooth Tester	ROHDE&SCHWARZ	CBT	101005	2019.06.13	2020.06.12
Power Splitter	KMW	DCPD-LDC	1305003215	--	--
Power Sensor	ROHDE&SCHWARZ	NRP-Z21	103971	2019.06.13	2020.06.12
Attenuator (20 dB)	KMW	ZA-S1-201	110617091	2019.01.09	2020.01.08
Attenuator (6 dB)	KMW	ZA-S1-61	1305003189	2019.01.09	2020.01.08
DC Power Supply	ROHDE&SCHWARZ	HMP2020	018141664	2019.06.13	2020.06.12
Temperature Chamber	AHK	SP20	1412	2019.06.24	2020.06.23
Test Antenna-Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	2017.11.09	2019.11.08
Test Antenna-Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-624	2018.08.22	2020.08.21
Test Antenna-Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	9120D-1148	2018.07.11	2020.07.10
Test Antenna-Horn (18-40 GHz)	A-INFO	LB-180400KF	J211060273	2019.01.05	2021.01.04
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2017.02.21	2020.02.20
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	N/A	2018.07.19	2020.07.18
Shielded Enclosure	ChangNing	CN-130701	130703	--	--
Signal Generator	ROHDE&SCHWARZ	SMB100A	177746	2019.08.23	2020.08.22
Power Amplifier	OPHIR RF	5225F	1037	2019.02.28	2020.02.27
Power Amplifier	OPHIR RF	5273F	1016	2019.02.28	2020.02.27
Directional Coupler	Werlantone	C5982-10	109275	N/A	N/A
Directional Coupler	Werlantone	CHP-273E	S00801z-01	N/A	N/A
Mouth Simulator	B&K	4227	2423931	2018.11.15	2019.11.14
Sound Calibrator	B&K	4231	2430337	2018.11.15	2019.11.14

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Sound Level Meter	B&K	NL-20	00844023	2018.11.15	2019.11.14
Ear Simulator	B&K	4185	2409449	2018.11.15	2019.11.14
Ear Simulator	B&K	4195	2418189	2018.11.15	2019.11.14
Audio analyzer	B&K	UPL 16	100129	2018.11.15	2019.11.14
Software	BALUN	BL410	-	-	-
Cable	ROHDE&SCHWARZ	JUNFLON	APR0914004	2019.01.09	2020.01.08

4.3 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Measurement	Value
Occupied Channel Bandwidth	±4%
RF output power, conducted	±1.4 dB
Power Spectral Density, conducted	±2.5 dB
Unwanted Emissions, conducted	±2.8 dB
All emissions, radiated	±5.4 dB
Temperature	±1°C
Humidity	±4%

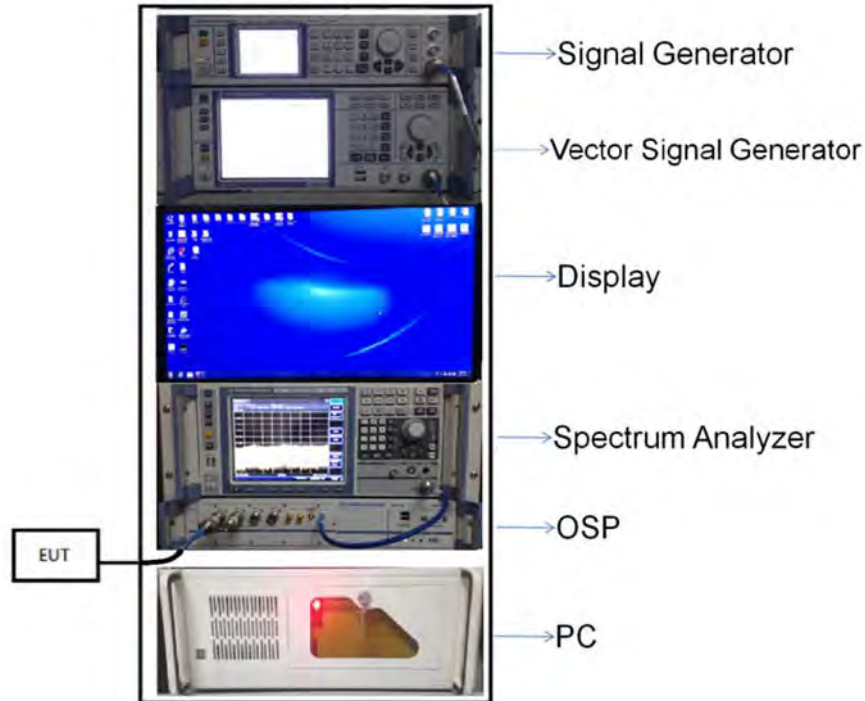
4.4 Description of Test Setup

4.4.1 For Antenna Port Test

Conducted value (dBm) = Measurement value (dBm) + cable loss (dB)

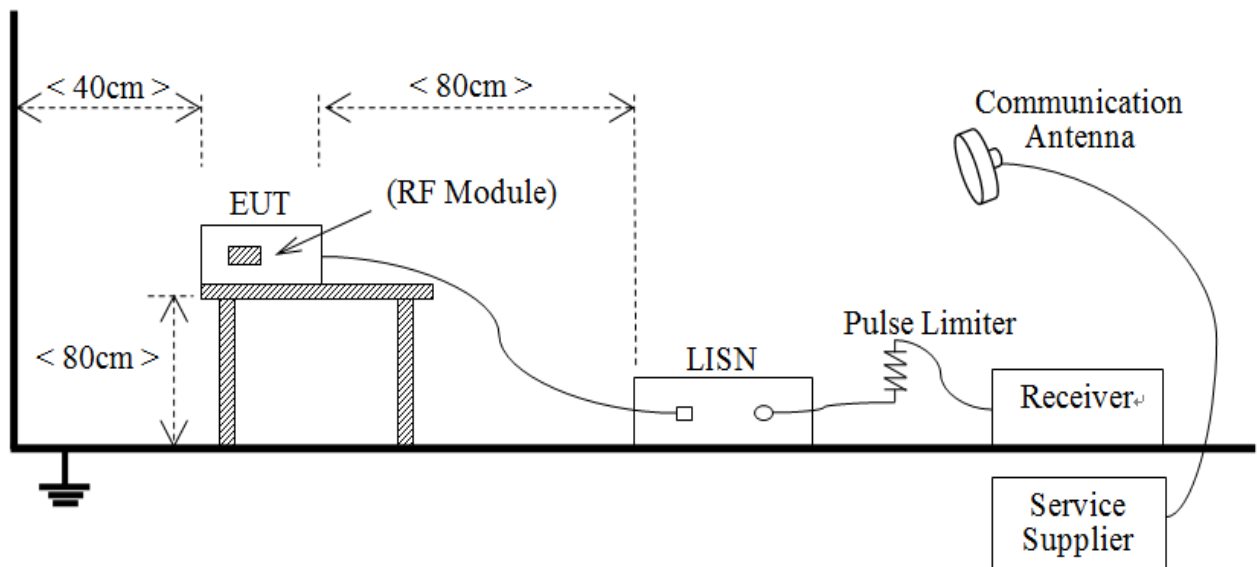
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

Conducted value (dBm) = 10 dBm + 0.5 dB = 10.5 dBm



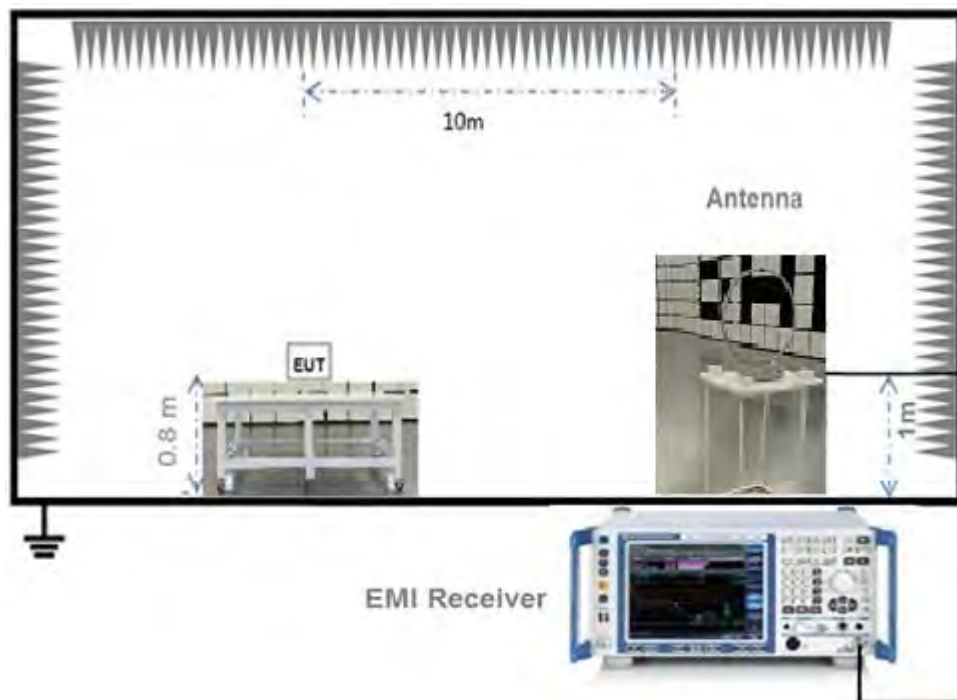
(Diagram 1)

4.4.2 For AC Power Supply Port Test



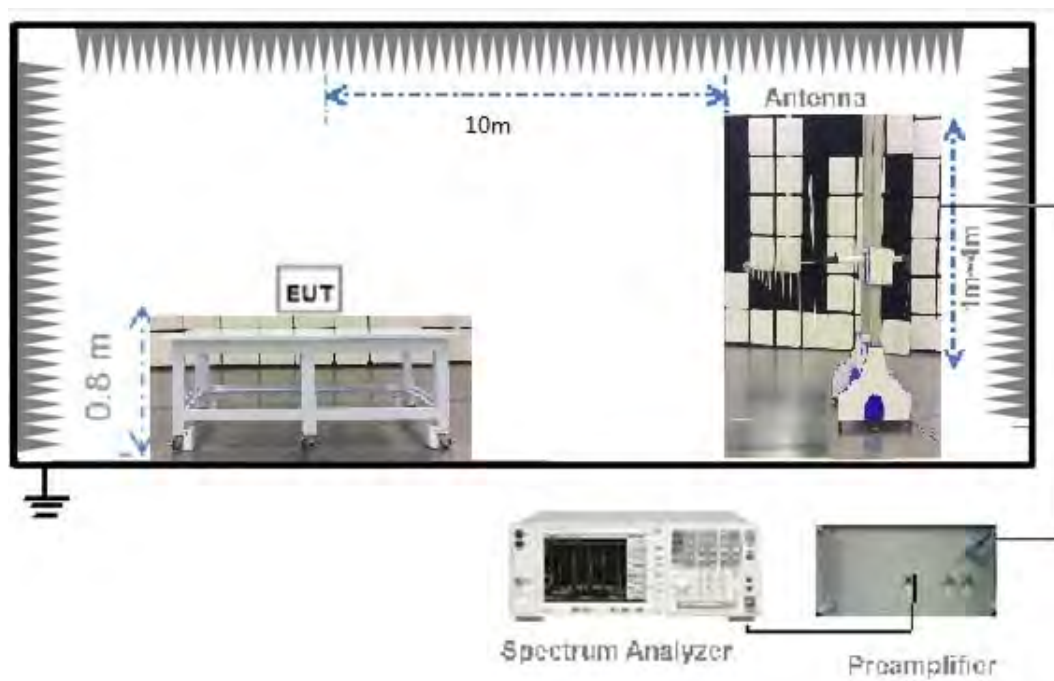
(Diagram 2)

4.4.3 For Radiated Test (Below 30 MHz)



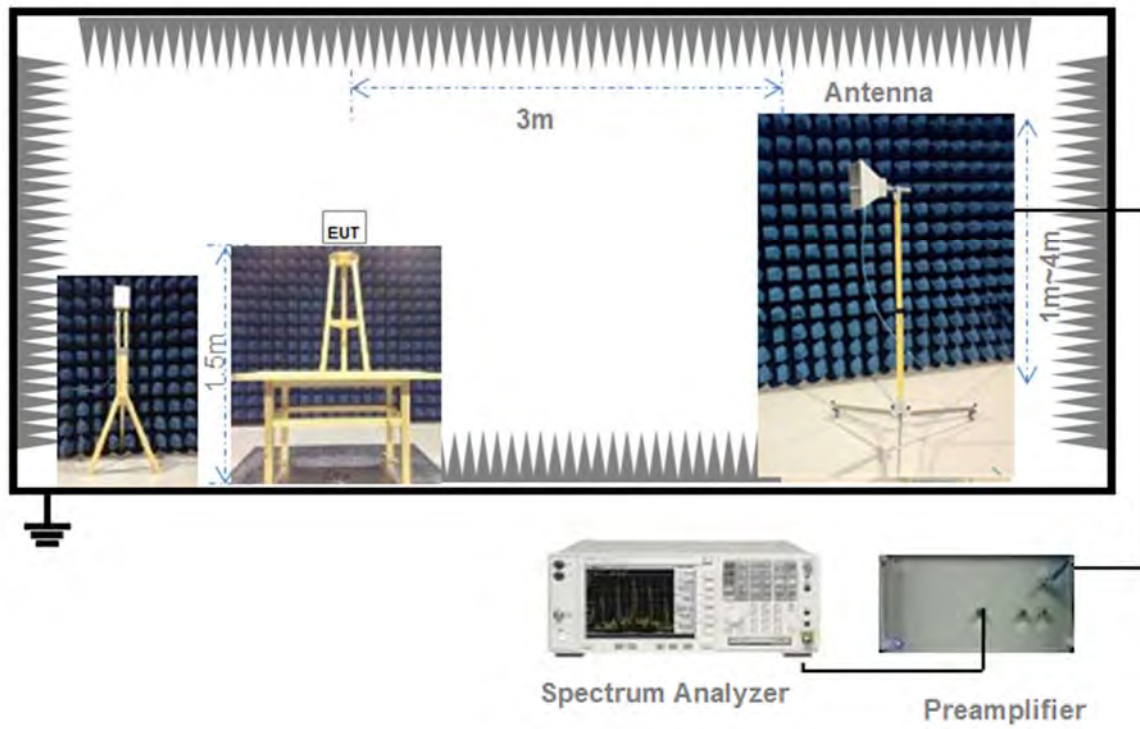
(Diagram 3)

4.4.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.4.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

4.5 Measurement Results Explanation Example

4.5.1 For conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Relevant Standards

FCC §15.203 & 15.247(b); RSS-247, 5.4 (f)

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. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

If directional gain of transmitting antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. 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 FCC rule.

5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

Protected Method	Description
The antenna is embedded in the product.	An embedded-in antenna design is used.

Reference Documents	Item
Photo	Please refer to the EUT Photo documents.

5.1.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

5.2 Frequency Hopping Systems

5.2.1 Relevant Standards

FCC §15.247(a) (1) (i) (ii) (iii) (iv); FCC §15.247(g); FCC §15.247(h)

Describe how the hopping sequence is generated. Provide an example of the hopping sequence channels, to demonstrate that the sequence meets the requirement specified in the definition of an FHSS system. Per the definition in Section 2.1(c), the hop set shall appear as random in the near term, shall appear as evenly distributed in the long term, and sequential hops shall be randomly distributed in both direction and magnitude of change.

Describe how each individual EUT meets the requirement that each of its hopping channels is used equally on average (e.g., that each new transmission event begins on the next channel in the hopping sequence after the final channel used in the previous transmission event).

Describe how the associated receiver(s) complies with the requirement that the input bandwidth (either RF or IF) matches the bandwidth of the transmitted signal.

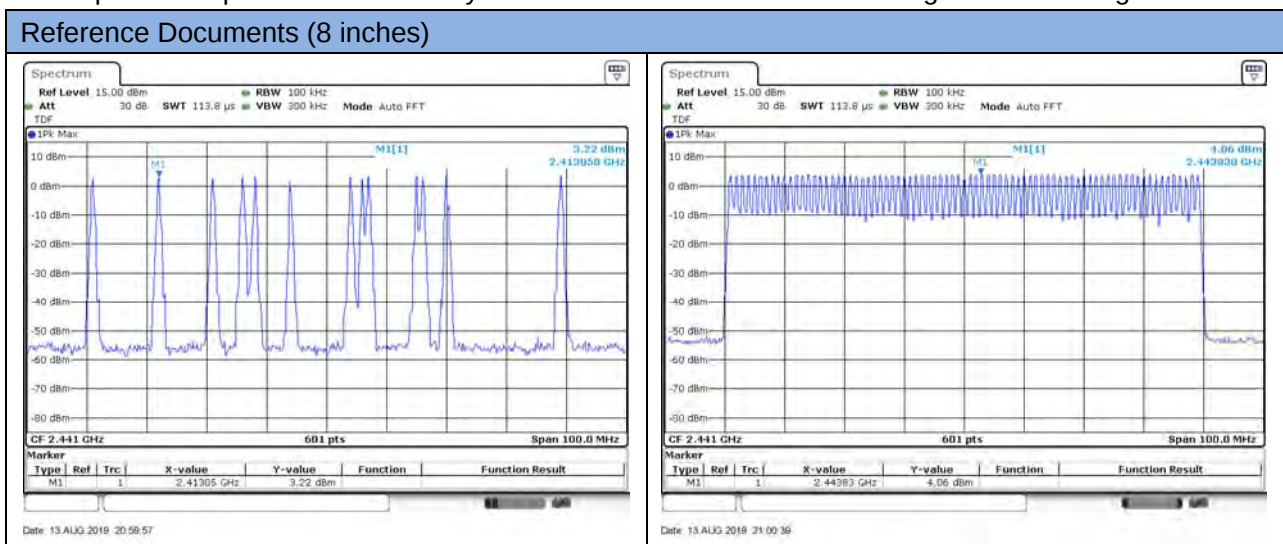
Describe how the associated receiver(s) has the ability to shift frequencies in synchronization with the transmitted signals.

For short burst systems, describe how the EUT complies with the requirement that it be designed to be capable of operating as a true frequency hopping system. Specifically, the device shall comply with the equal frequency use and pseudorandom hopping sequence requirement when transmitting in short bursts, and shall be designed to comply when presented with continuous data (or information) stream.

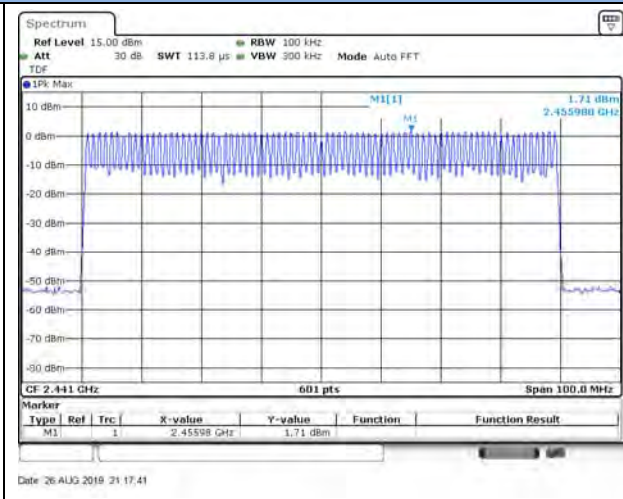
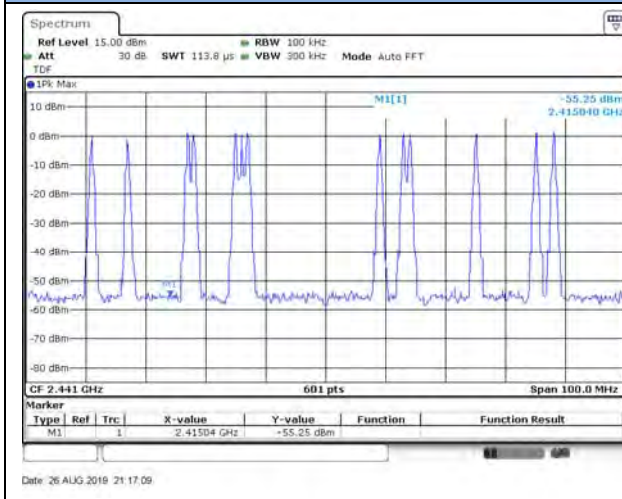
Describe how the EUT complies with the requirement that it not have the ability to be coordinated with other FHSS systems in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitters.

5.2.2 Description of the systems

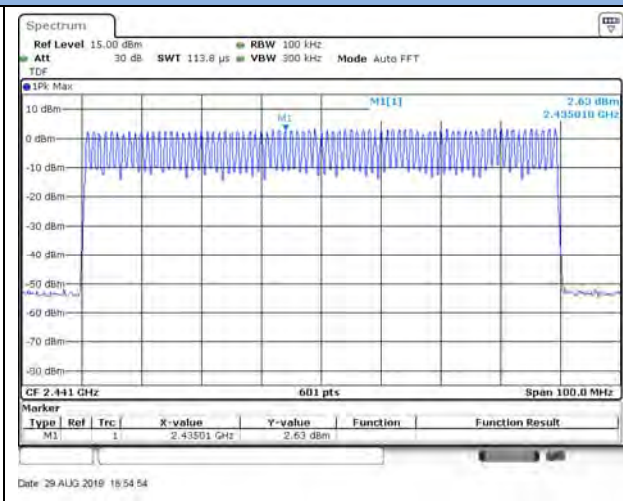
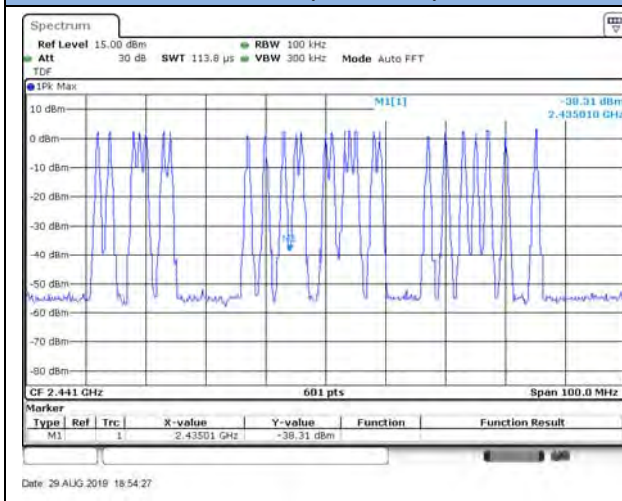
1. According to the preset procedure of the whole network, all the stations in the automatic control network synchronously change the frequency multiple times within one second, and temporarily stay on each frequency hopping channel. Periodic synchronization signaling is sent from the primary station, instructing all slaves to simultaneously change the operating frequency, then the hopping sequence is generated.
2. The hop set shall appear as random in the near term, shall appear as evenly distributed in the long term, and sequential hops shall be randomly distributed in both direction and magnitude of change.



Reference Documents (10 inches)



Reference Documents (11 inches)



- Channels are classified into two categories, used and unused, where used channels are part of the hopping sequence and unused channels are replaced in the hopping sequence by used channels in a pseudo-random way. Make each individual EUT meets the requirement that each of its hopping channels is used equally on average.
- The input bandwidth and transmitted bandwidth are both 1MHz, the associated receiver(s) complies with the requirement that the input bandwidth matches the bandwidth of the transmitted signal.
- Connected devices communicate on the same physical channel by synchronizing with a common clock and hopping sequence.
- EUT isn't short burst systems.
- EUT can't have the ability to be coordinated with other FHSS systems in an effort.

5.3 Number of Hopping Frequencies

5.3.1 Limit

FCC §15.247(a) (1) (iii); RSS-247, 5.1 (d)

Frequency hopping systems operating in the 2400 MHz to 2483.5 MHz bands shall use at least 15 hopping frequencies.

5.3.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

Span = The frequency band of operation

RBW = To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize

5.3.4 Test Result

Please refer to ANNEX A.1.

5.4 Peak Output Power and E.I.R.P

5.4.1 Test Limit

FCC § 15.247(b)

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

RSS-247, 5.4 (b)

For FHSs operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W and the e.i.r.p. shall not exceed 4 W if the hopset uses 75 or more hopping channels; the maximum peak conducted output power shall not exceed 0.125 W and the e.i.r.p. shall not exceed 0.5 W if the hopset uses less than 75 hopping channels (see Section 5.4(5) for exceptions).

5.4.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

The Module operates at hopping-off test mode. The lowest, middle and highest channels are selected to perform testing to verify the conducted RF output peak power of the Module.

Use the following spectrum analyzer settings:

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

RBW > the 20 dB bandwidth of the emission being measured

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize.

5.4.4 Test Result

Please refer to ANNEX A.2.

5.5 Occupied Bandwidth

5.5.1 Limit

FCC §15.247(a); RSS-247, 5.1 (a)

Measurement of the 20dB bandwidth of the modulated signal.

5.5.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel

RBW = in the range of 1% to 5% of the OBW

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

The EUT should be transmitting at its maximum data rate, Allow the trace to stabilize.

5.5.4 Test Result

Please refer to ANNEX A.3.

5.6 Carrier Frequency Separation

5.6.1 Limit

FCC §15.247(a); RSS-247, 5.1 (b)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 2/3 of the 20 dB bandwidth of the hopping channel, whichever is greater.

5.6.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.6.3 Test Procedure

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

Span = wide enough to capture the peaks of two adjacent channels

Resolution (or IF) Bandwidth (RBW) $\geq 1\%$ of the span

Video (or Average) Bandwidth (VBW) $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

5.6.4 Test Result

Please refer to ANNEX A.4.

5.7 Time of Occupancy (Dwell time)

5.7.1 Limit

FCC §15.247(a); RSS-247, 5.1 (d)

Frequency hopping systems in the 2400 MHz - 2483.5 MHz band shall use at least 15 non-overlapping channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

5.7.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.7.3 Test Procedure

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

Span: Zero span, centered on a hopping channel

RBW shall be $\leq$ channel spacing and where possible RBW should be set $\gg 1 / T$, where T is the expected dwell time per channel

Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel

Detector function: Peak

Trace: Max hold

Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time.

The average time of occupancy on any channel within the Period can be calculated with formulas:

For GFSK and 8-DPSK:

For DH1 package type

$$\begin{aligned}\{\text{Total of Dwell}\} &= \{\text{Pulse Time}\} * (1600 / 2) / \{\text{Number of Hopping Frequency}\} * \{\text{Period}\} \\ \{\text{Period}\} &= 0.4 \text{ s} * \{\text{Number of Hopping Frequency}\}\end{aligned}$$

For DH3 package type

$$\begin{aligned}\{\text{Total of Dwell}\} &= \{\text{Pulse Time}\} * (1600 / 4) / \{\text{Number of Hopping Frequency}\} * \{\text{Period}\} \\ \{\text{Period}\} &= 0.4 \text{ s} * \{\text{Number of Hopping Frequency}\}\end{aligned}$$

For DH5 package type

$$\begin{aligned}\{\text{Total of Dwell}\} &= \{\text{Pulse Time}\} * (1600 / 6) / \{\text{Number of Hopping Frequency}\} * \{\text{Period}\} \\ \{\text{Period}\} &= 0.4 \text{ s} * \{\text{Number of Hopping Frequency}\}\end{aligned}$$

For AFH Mode:

For DH1 package type

$$\begin{aligned}\{\text{Total of Dwell}\} &= \{\text{Pulse Time}\} * (800 / 2) / \{\text{Number of Hopping Frequency}\} * \{\text{Period}\} \\ \{\text{Period}\} &= 0.4 \text{ s} * \{\text{Number of Hopping Frequency}\}\end{aligned}$$

For DH3 package type

$$\begin{aligned}\{\text{Total of Dwell}\} &= \{\text{Pulse Time}\} * (800 / 4) / \{\text{Number of Hopping Frequency}\} * \{\text{Period}\} \\ \{\text{Period}\} &= 0.4 \text{ s} * \{\text{Number of Hopping Frequency}\}\end{aligned}$$

For DH5 package type

$$\{\text{Total of Dwell}\} = \{\text{Pulse Time}\} * (800 / 6) / \{\text{Number of Hopping Frequency}\} * \{\text{Period}\}$$

{Period} = 0.4 s * {Number of Hopping Frequency}

The lowest, middle and highest channels are selected to perform testing to record the dwell time of each occupation measured in this channel, which is called Pulse Time here.

5.7.4 Test Result

Please refer to ANNEX A.5

5.8 Conducted Spurious Emission & Authorized-band band-edge

5.8.1 Limit

FCC §15.247(d); RSS-247, 5.5

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.

5.8.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.8.3 Test Procedure

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.

RBW = 100 kHz

VBW = 300 kHz

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize

5.8.4 Test Result

Please refer to ANNEX A.6.

5.9 Conducted Emission

5.9.1 Limit

FCC §15.207; RSS-GEN, 8.8

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
0.50 - 30	60	50

5.9.2 Test Setup

See section 4.4.2 for test setup description for the AC power supply port. The photo of test setup please refer to ANNEX B.

5.9.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

5.9.4 Test Result

Please refer to ANNEX A.7.

5.10 Radiated Spurious Emission

5.10.1 Limit

FCC §15.209&15.247(d); RSS-247, 5.5

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note:

1. Field Strength (dBμV/m) = $20 \cdot \log[\text{Field Strength } (\mu\text{V/m})]$.
2. In the emission tables above, the tighter limit applies at the band edges.
3. For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
4. For above 1000 MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).

5.10.2 Test Setup

See section 4.4.3 to 4.4.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.10.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

5.10.4 Test Result

Please refer to ANNEX A.8.

5.11 Band Edge (Restricted-band band-edge)

5.11.1 Limit

FCC §15.209&15.247(d)

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

5.11.2 Test Setup

See section 4.4.3 to 4.4.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.11.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

5.11.4 Test Result

Please refer to ANNEX A.9.

ANNEX A TEST RESULT

A.1 Number of Hopping Frequency

Test Data

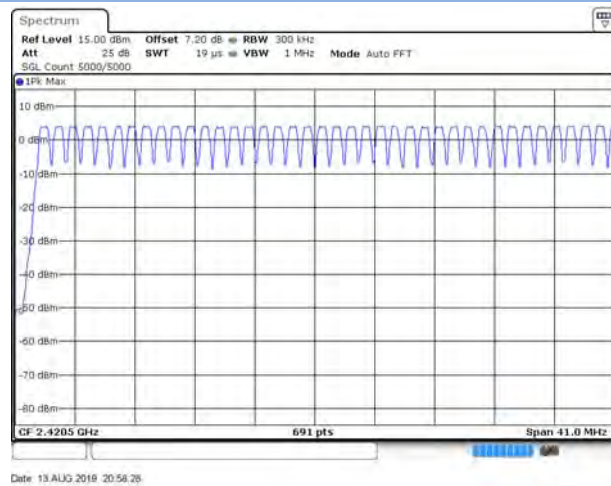
8 inches & 10.1 inches & 11.5 inches

Test Mode	Frequency Block (MHz)	Measured Channel Numbers	Min. Limit	Verdict
GFSK	2400 - 2483.5	79	15	Pass
8-DPSK	2400 - 2483.5	79	15	Pass

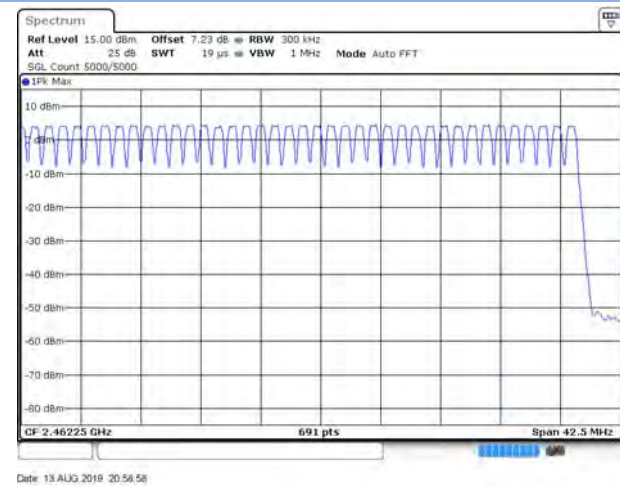
Test plots

8 inches

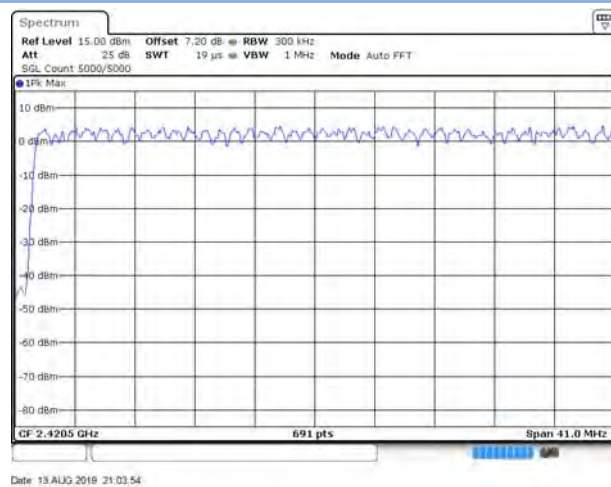
GFSK 2.4 GHz ~ 2.4415 GHz



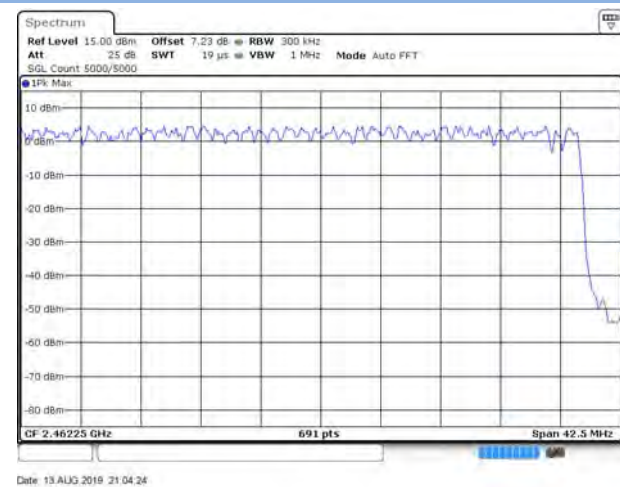
GFSK 2.4415 GHz ~ 2.4835 GHz



8-DPSK 2.4 GHz ~ 2.4415 GHz

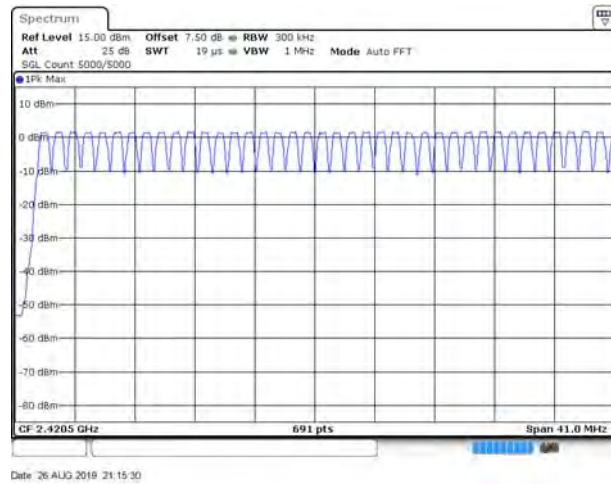


8-DPSK 2.4415 GHz ~ 2.4835 GHz

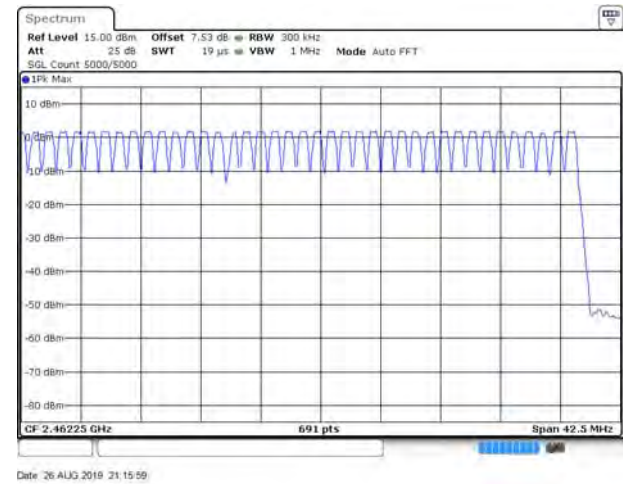


10.1 inches

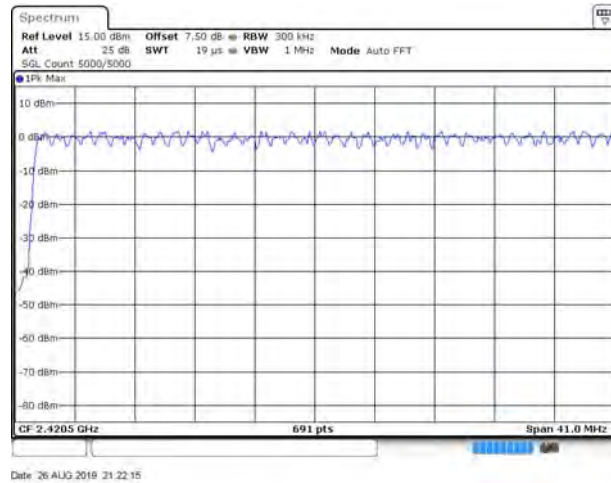
GFSK 2.4 GHz ~ 2.4415 GHz



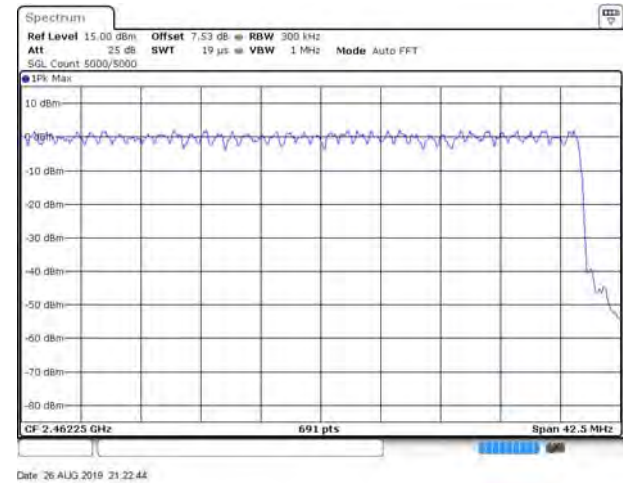
GFSK 2.4415 GHz ~ 2.4835 GHz



8-DPSK 2.4 GHz ~ 2.4415 GHz

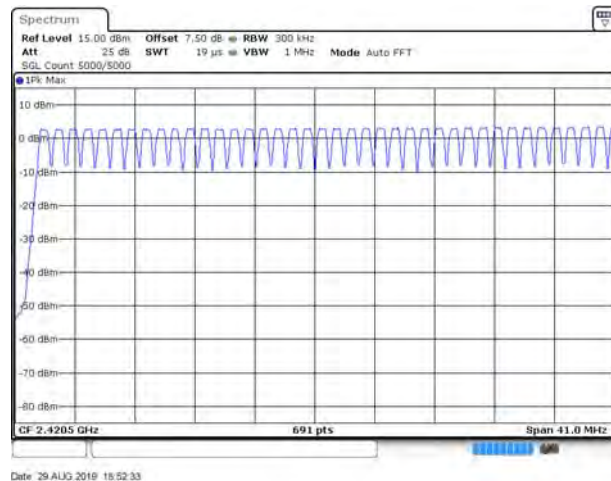


8-DPSK 2.4415 GHz ~ 2.4835 GHz

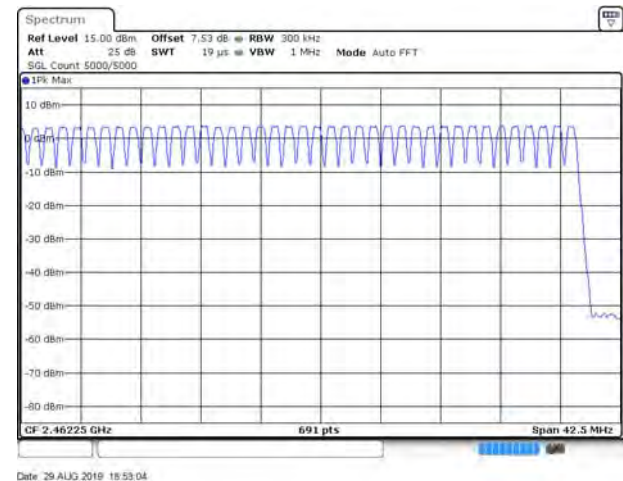


11.5 inches

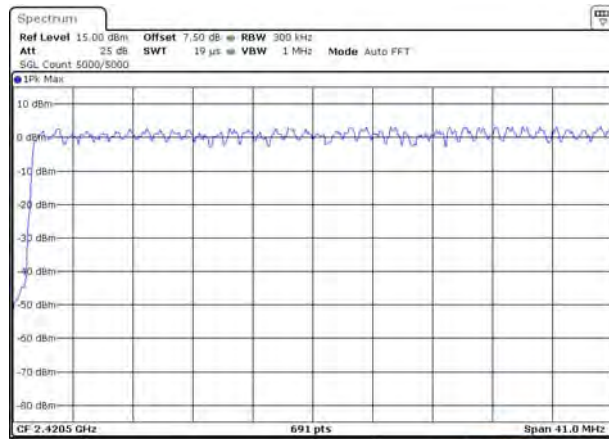
GFSK 2.4 GHz ~ 2.4415 GHz



GFSK 2.4415 GHz ~ 2.4835 GHz

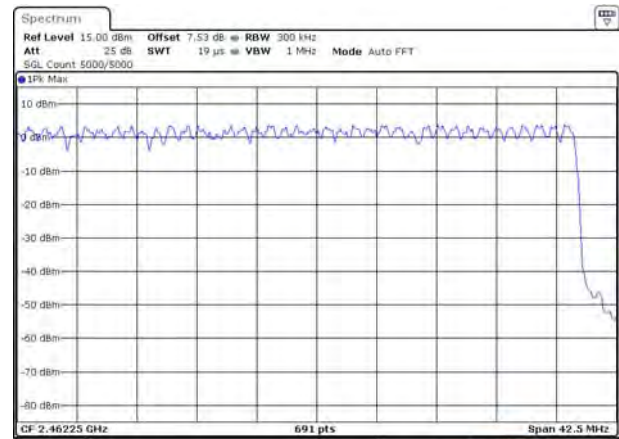


8-DPSK 2.4 GHz ~ 2.4415 GHz



Date 29 AUG 2019 18:58:02

8-DPSK 2.4415 GHz ~ 2.4835 GHz



Date 29 AUG 2019 18:58:33

A.2 Peak Output Power and E.I.R.P

Peak Power Test Data

8 inches

Channel	Measured Output Peak Power		Limit		Verdict
	GFSK		dBm	mW	
	dBm	mW			
Low	4.26	2.67	30	1000	Pass
Middle	4.36	2.73			Pass
High	4.32	2.70			Pass

Channel	Measured Output Peak Power				Limit		Verdict
	π/4-DQPSK		8-DPSK		dBm	mW	
	dBm	mW	dBm	mW			
Low	5.67	3.69	5.95	3.94	21	125	Pass
Middle	5.70	3.72	6.00	3.98			Pass
High	5.65	3.67	5.98	3.96			Pass

10.1 inches

Channel	Measured Output Peak Power		Limit		Verdict
	GFSK		dBm	mW	
	dBm	mW			
Low	2.21	1.66	30	1000	Pass
Middle	2.21	1.66			Pass
High	2.17	1.65			Pass

Channel	Measured Output Peak Power				Limit		Verdict
	π/4-DQPSK		8-DPSK		dBm	mW	
	dBm	mW	dBm	mW			
Low	3.41	2.19	3.61	2.30	21	125	Pass
Middle	3.54	2.26	3.72	2.36			Pass
High	3.57	2.28	3.76	2.38			Pass

11.5 inches

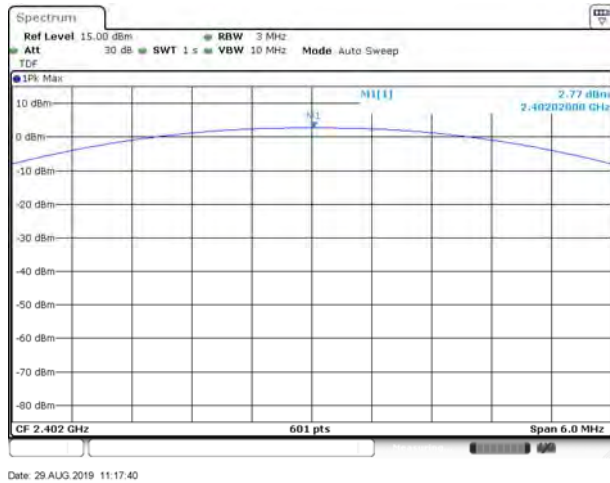
Channel	Measured Output Peak Power		Limit		Verdict
	GFSK		dBm	mW	
	dBm	mW			
Low	2.77	1.89	30	1000	Pass
Middle	3.34	2.16			Pass
High	3.63	2.31			Pass

Channel	Measured Output Peak Power				Limit		Verdict
	π/4-DQPSK		8-DPSK		dBm	mW	
	dBm	mW	dBm	mW			
Low	4.36	2.73	4.68	2.94	21	125	Pass
Middle	4.92	3.10	5.22	3.33			Pass
High	5.29	3.38	5.56	3.60			Pass

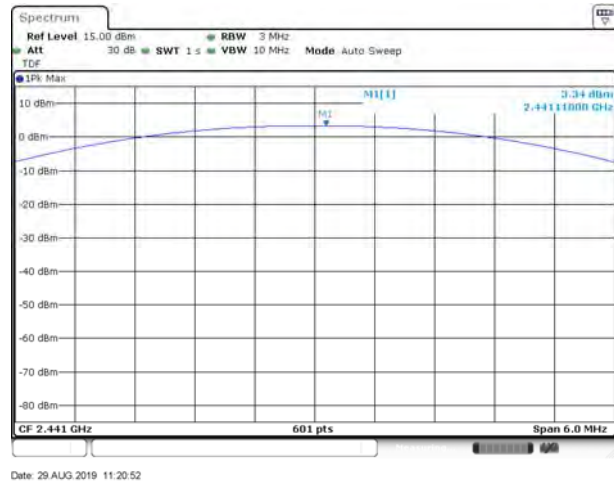
Test plots

8 inches

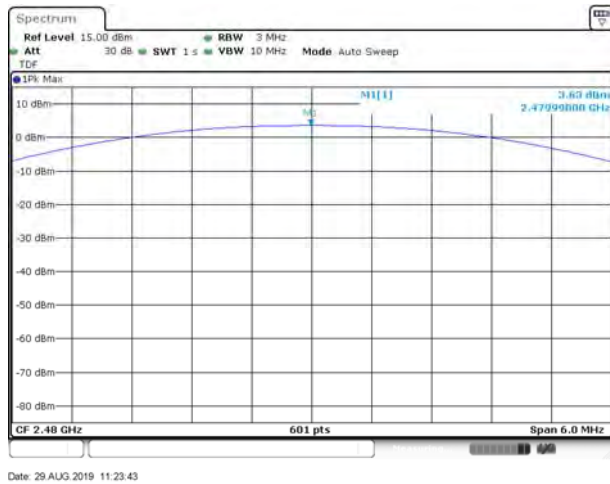
GFSK LOW CHANNEL



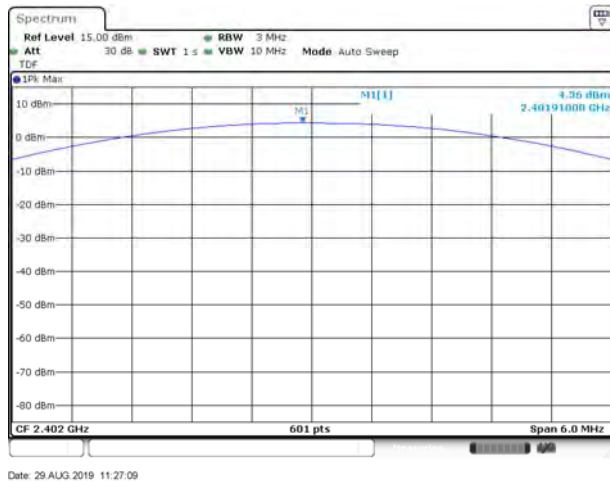
GFSK MIDDLE CHANNEL



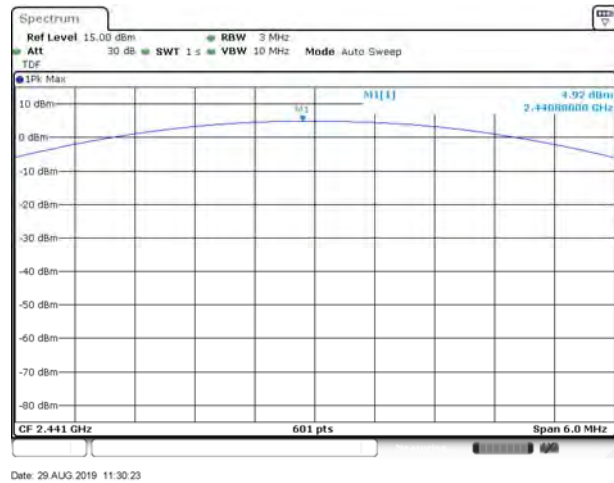
GFSK HIGH CHANNEL



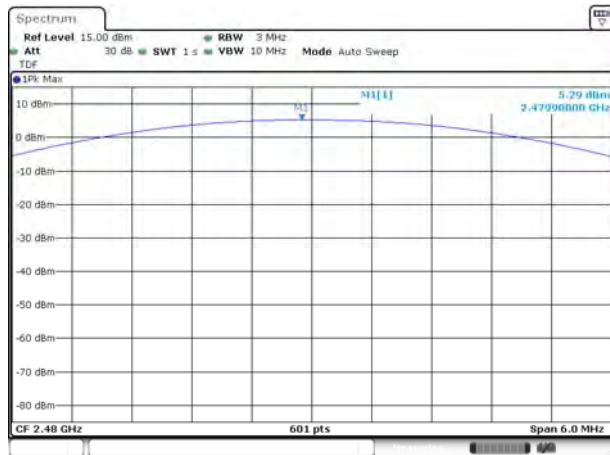
II/4-DQPSK LOW CHANNEL



II/4-DQPSK MIDDLE CHANNEL

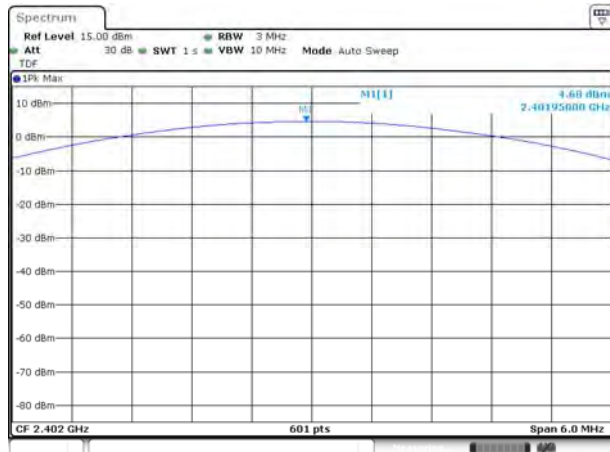


$\Pi/4$ -DQPSK HIGH CHANNEL



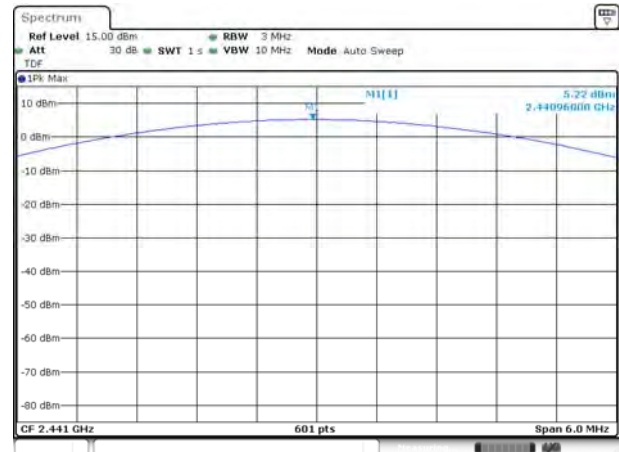
Date: 29 AUG 2019 11:33:05

8-DPSK LOW CHANNEL



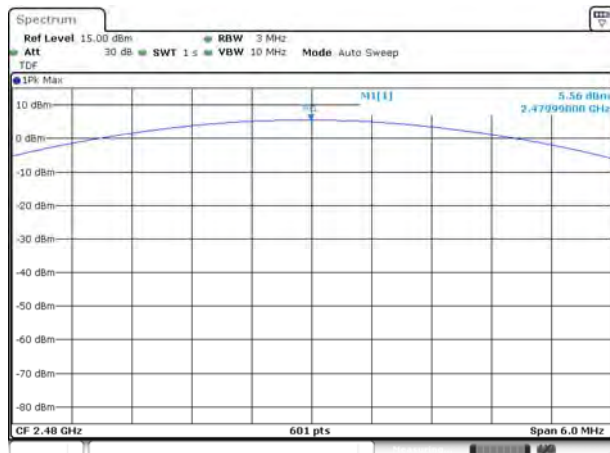
Date: 29 AUG 2019 11:36:31

8-DPSK MIDDLE CHANNEL



Date: 29 AUG 2019 11:39:46

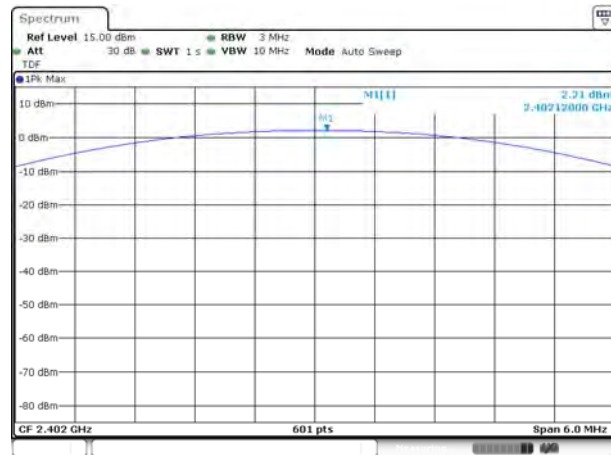
8-DPSK HIGH CHANNEL



Date: 29 AUG 2019 11:42:37

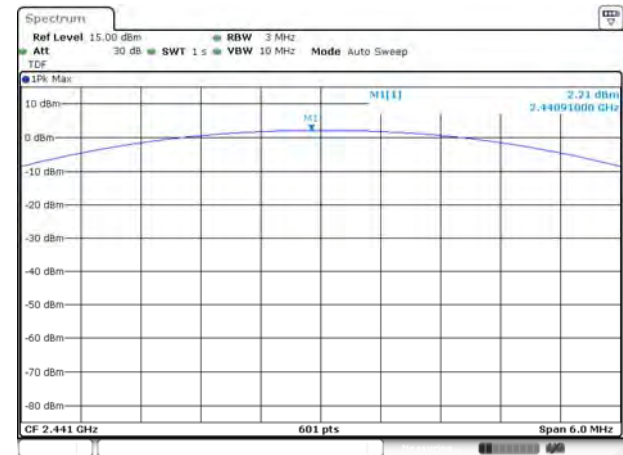
10.1 inches

GFSK LOW CHANNEL



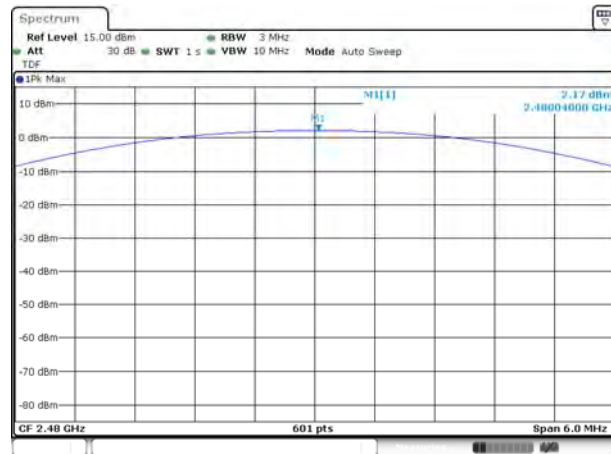
Date: 26 AUG 2019 20:53:00

GFSK MIDDLE CHANNEL



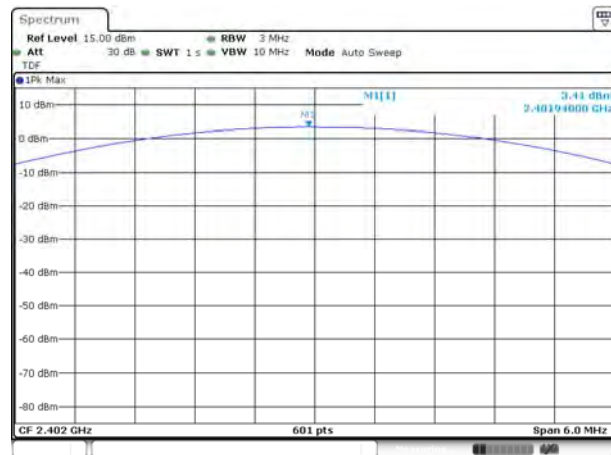
Date: 26 AUG 2019 20:56:27

GFSK HIGH CHANNEL



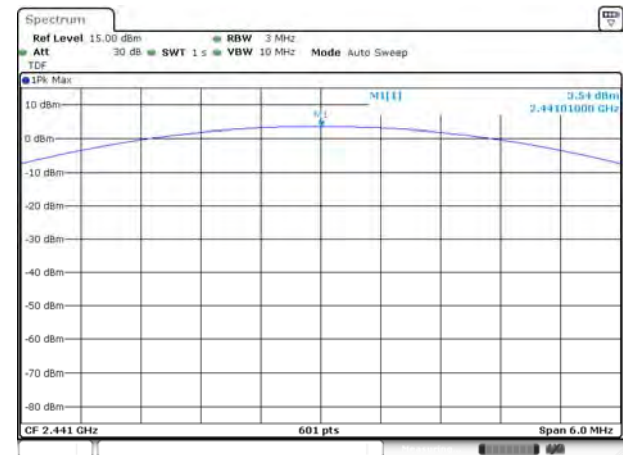
Date: 26 AUG 2019 21:00:34

II/4-DQPSK LOW CHANNEL



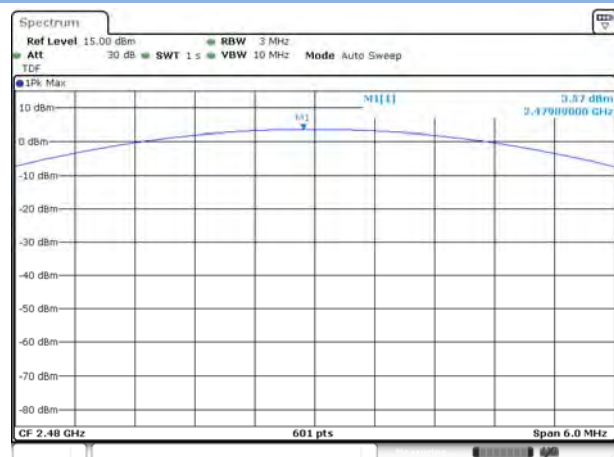
Date: 26 AUG 2019 21:03:27

II/4-DQPSK MIDDLE CHANNEL



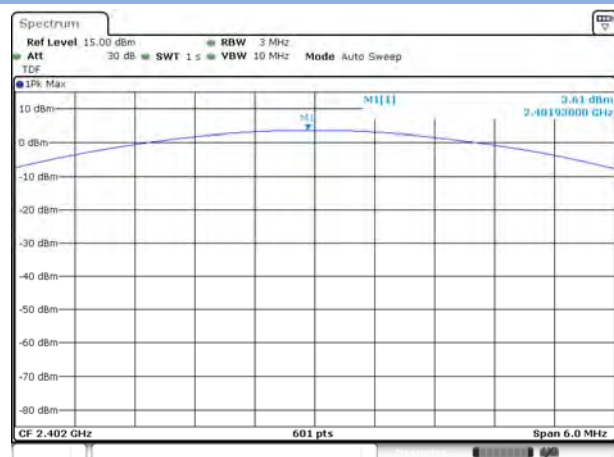
Date: 26 AUG 2019 21:04:29

$\Pi/4$ -DQPSK HIGH CHANNEL



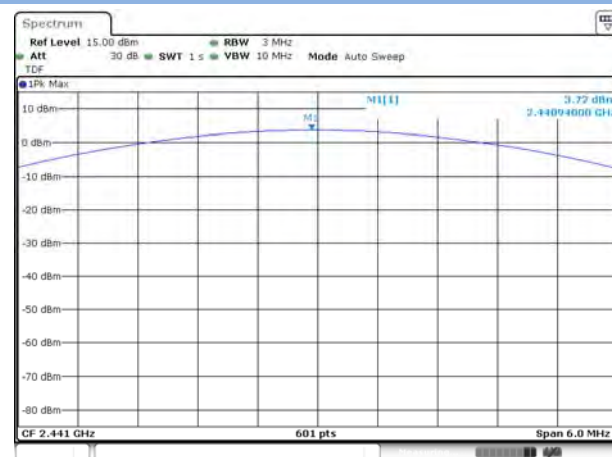
Date: 26 AUG 2019 21:06:03

8-DPSK LOW CHANNEL



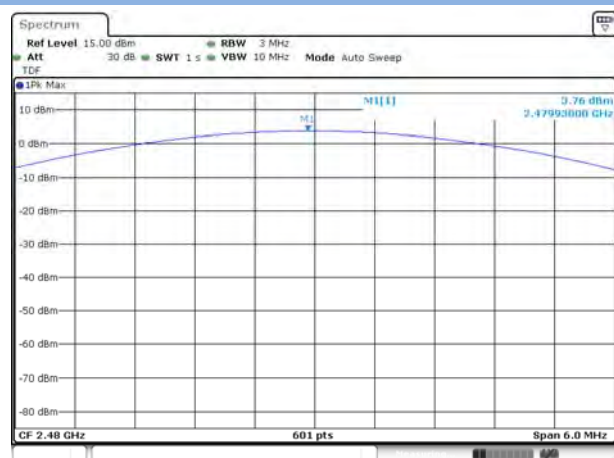
Date: 26 AUG 2019 21:07:08

8-DPSK MIDDLE CHANNEL



Date: 26 AUG 2019 21:10:09

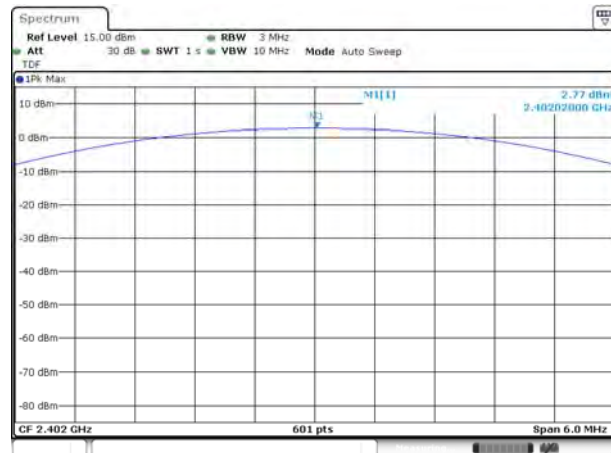
8-DPSK HIGH CHANNEL



Date: 26 AUG 2019 21:12:20

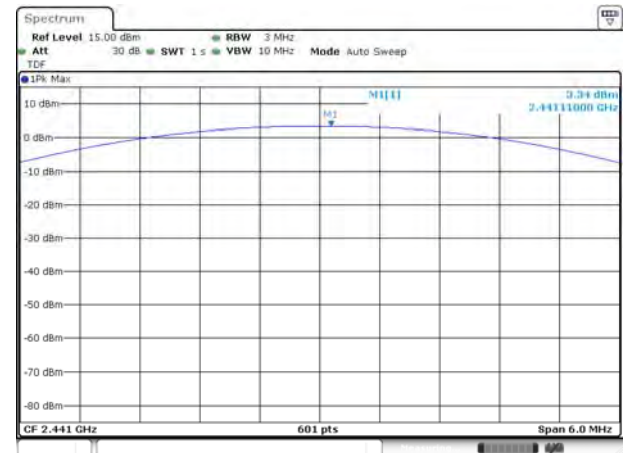
11.5 inches

GFSK LOW CHANNEL



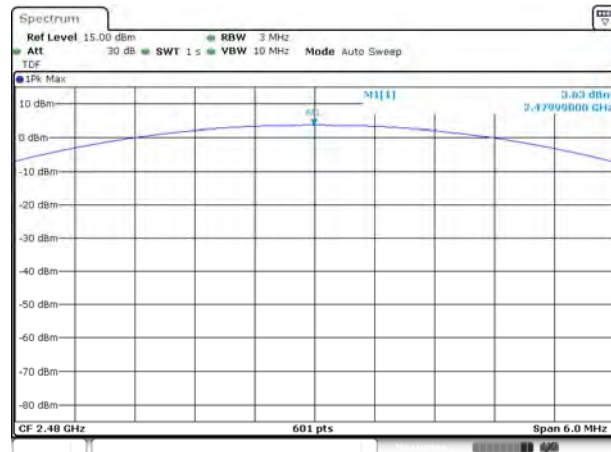
Date: 29 AUG 2019 11:17:40

GFSK MIDDLE CHANNEL



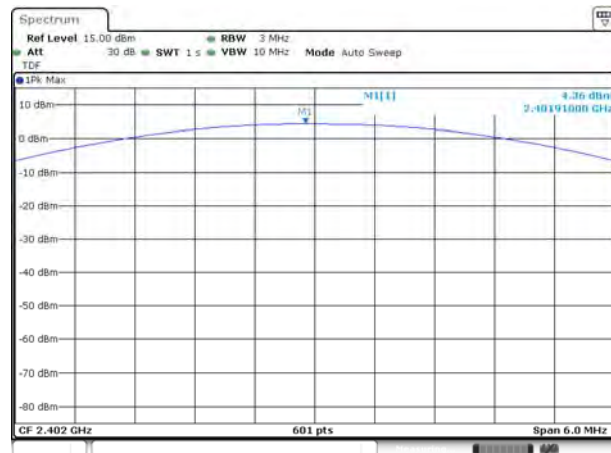
Date: 29 AUG 2019 11:20:52

GFSK HIGH CHANNEL



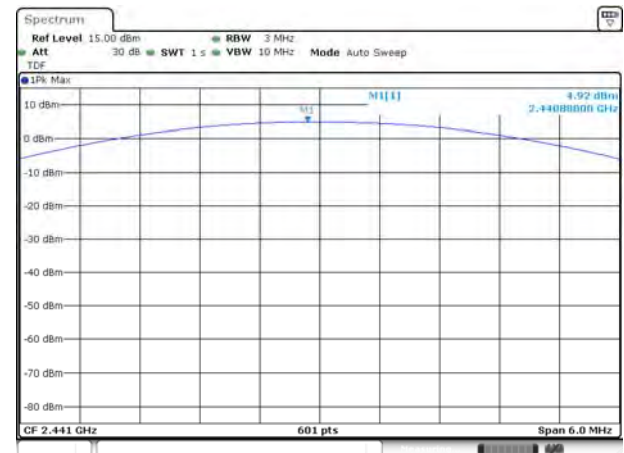
Date: 29 AUG 2019 11:23:43

II/4-DQPSK LOW CHANNEL



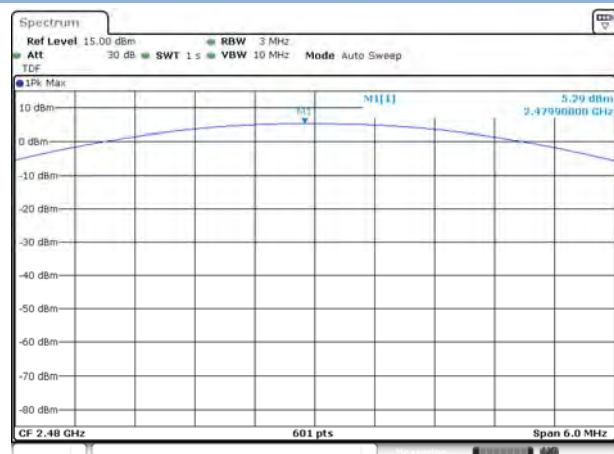
Date: 29 AUG 2019 11:27:09

II/4-DQPSK MIDDLE CHANNEL



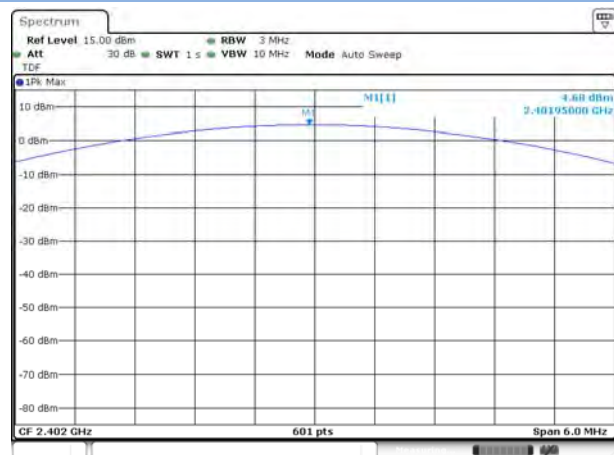
Date: 29 AUG 2019 11:30:23

II/4-DQPSK HIGH CHANNEL



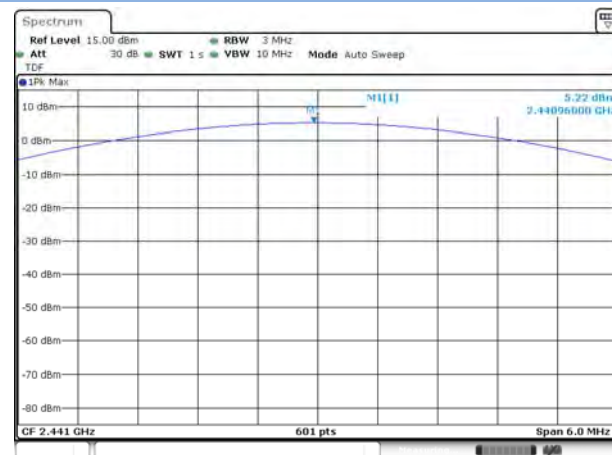
Date: 29 AUG 2019 11:33:05

8-DPSK LOW CHANNEL



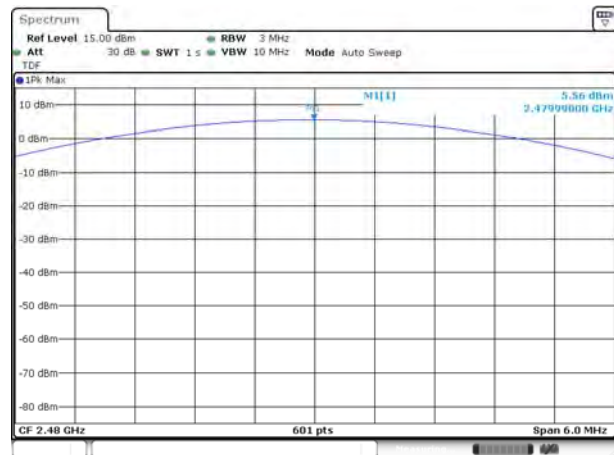
Date: 29 AUG 2019 11:36:31

8-DPSK MIDDLE CHANNEL



Date: 29 AUG 2019 11:39:46

8-DPSK HIGH CHANNEL



Date: 29 AUG 2019 11:42:37

A.3 20 dB and 99% bandwidth

Test Data

8 inches

GFSK		
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	1.039062	0.885673
Middle	1.039062	0.885673
High	1.039062	0.890014
π/4-DQPSK		
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	1.352295	1.189580
Middle	1.347900	1.189580
High	1.352295	1.185239
8-DPSK		
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	1.300049	1.163531
Middle	1.300049	1.163531
High	1.299805	1.159190

10.1 inches

GFSK		
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	1.039062	0.881331
Middle	1.039307	0.881331
High	1.039062	0.881331
π/4-DQPSK		
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	1.347900	1.185239
Middle	1.347900	1.185239
High	1.347900	1.189580
8-DPSK		
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	1.295654	1.159190
Middle	1.300049	1.159190
High	1.300049	1.159190

11.5 inches

GFSK		
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	1.039062	0.885673
Middle	1.039062	0.881331
High	1.043457	0.890014
16-QAM		
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	1.347900	1.189580
Middle	1.347900	1.189580
High	1.347900	1.185239
8-DPSK		
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)
Low	1.299805	1.163531
Middle	1.295654	1.163531
High	1.299805	1.163531

Test plots

8 inches

20 dB Bandwidth

GFSK LOW CHANNEL



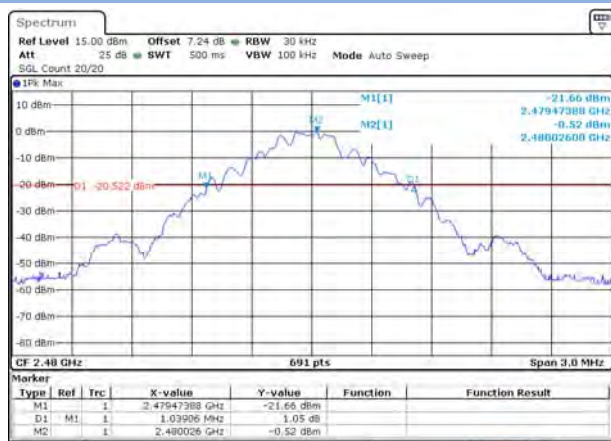
Date: 13 AUG 2019 20:33:44

GFSK MIDDLE CHANNEL



Date: 13 AUG 2019 20:37:26

GFSK HIGH CHANNEL



Date 13 AUG 2019 20:41:09

II/4-DQPSK LOW CHANNEL



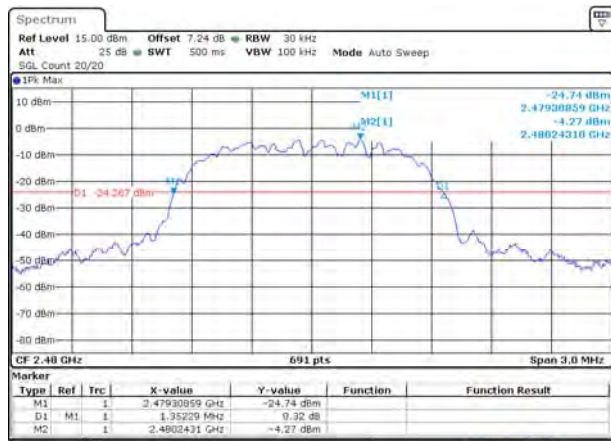
Date 13 AUG 2019 20:44:10

II/4-DQPSK MIDDLE CHANNEL



Date 13 AUG 2019 20:45:48

II/4-DQPSK HIGH CHANNEL



Date 13 AUG 2019 20:47:50

8-DPSK LOW CHANNEL



Date 13.AUG.2019 20:49:23

8-DPSK MIDDLE CHANNEL



Date 13.AUG.2019 20:52:01

8-DPSK HIGH CHANNEL



Date 13.AUG.2019 20:54:58

99% Bandwidth

GFSK LOW CHANNEL



Date 13.AUG.2019 20:33:59

GFSK MIDDLE CHANNEL



Date 13.AUG.2019 20:37:41

GFSK HIGH CHANNEL



Date: 13.AUG.2019 20:41:34

Π/4-DQPSK LOW CHANNEL



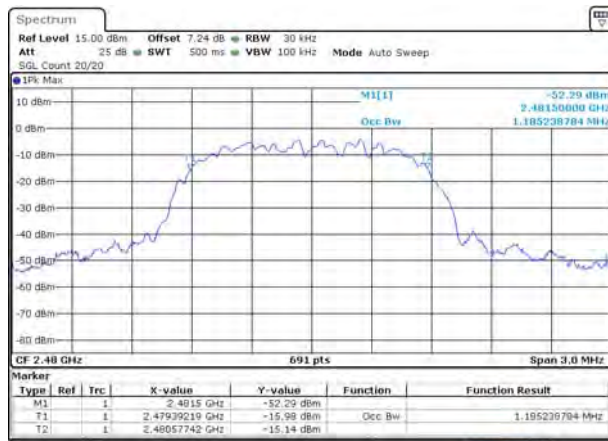
Date: 13.AUG.2019 20:44:24

Π/4-DQPSK MIDDLE CHANNEL



Date: 13.AUG.2019 20:46:03

Π/4-DQPSK HIGH CHANNEL

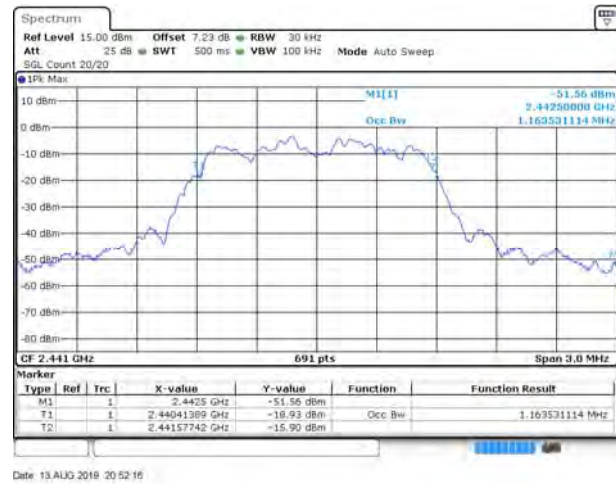


Date: 13.AUG.2019 20:48:04

8-DPSK LOW CHANNEL



8-DPSK MIDDLE CHANNEL



8-DPSK HIGH CHANNEL



10.1 inches

20 dB Bandwidth

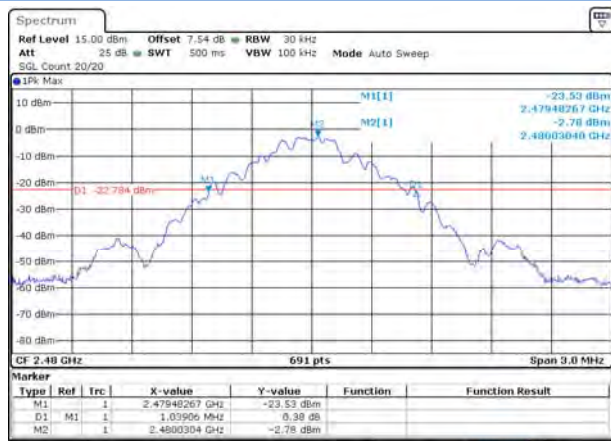
GFSK LOW CHANNEL



GFSK MIDDLE CHANNEL

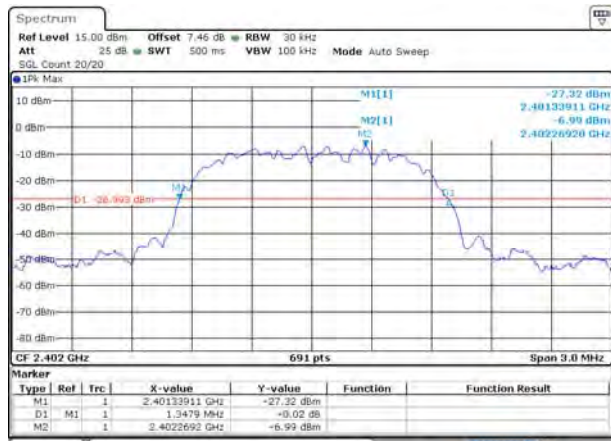


GFSK HIGH CHANNEL



Date: 26 AUG 2019 21:00:43

II/4-DQPSK LOW CHANNEL



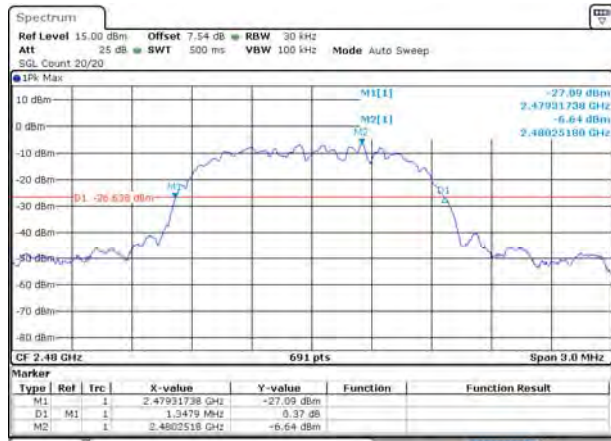
Date: 26 AUG 2019 21:03:42

II/4-DQPSK MIDDLE CHANNEL



Date: 26 AUG 2019 21:04:43

II/4-DQPSK HIGH CHANNEL



Date: 26 AUG 2019 21:06:15

8-DPSK LOW CHANNEL



Date: 26 AUG 2019 21:07:22

8-DPSK MIDDLE CHANNEL



Date: 26 AUG 2019 21:10:23

8-DPSK HIGH CHANNEL



Date: 26 AUG 2019 21:12:35

99% Bandwidth

GFSK LOW CHANNEL



Date: 26 AUG 2019 20:53:29

GFSK MIDDLE CHANNEL



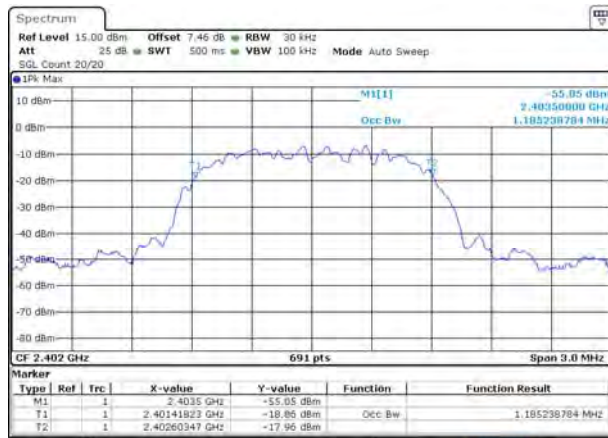
Date: 26 AUG 2019 20:56:56

GFSK HIGH CHANNEL



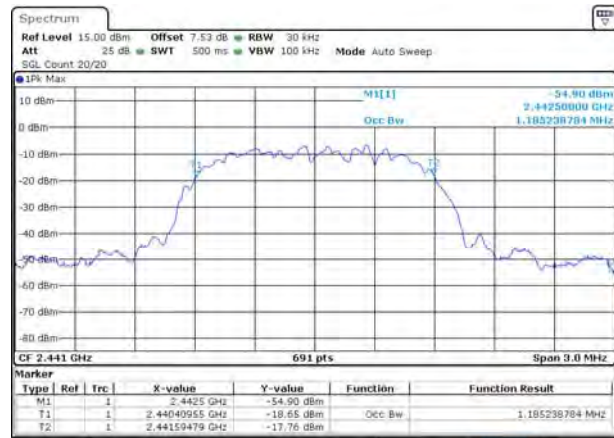
Date: 26 AUG 2019 21:01:03

II/4-DQPSK LOW CHANNEL



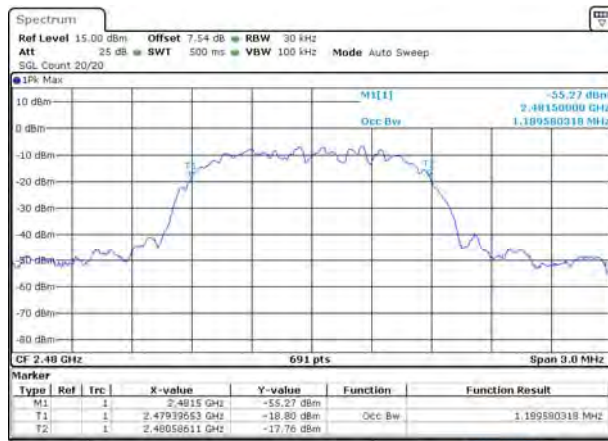
Date: 26 AUG 2019 21:03:56

II/4-DQPSK MIDDLE CHANNEL



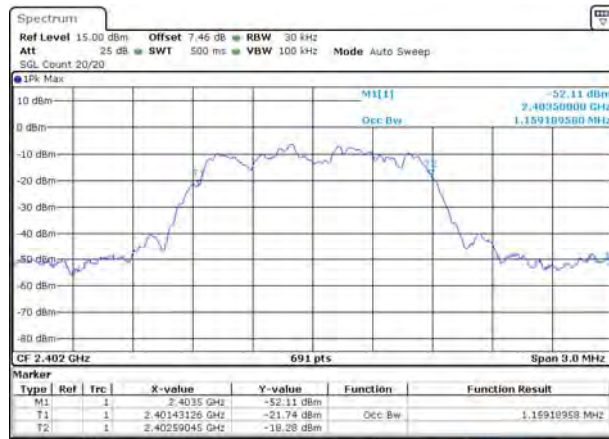
Date: 26 AUG 2019 21:04:58

II/4-DQPSK HIGH CHANNEL



Date: 26 AUG 2019 21:06:33

8-DPSK LOW CHANNEL



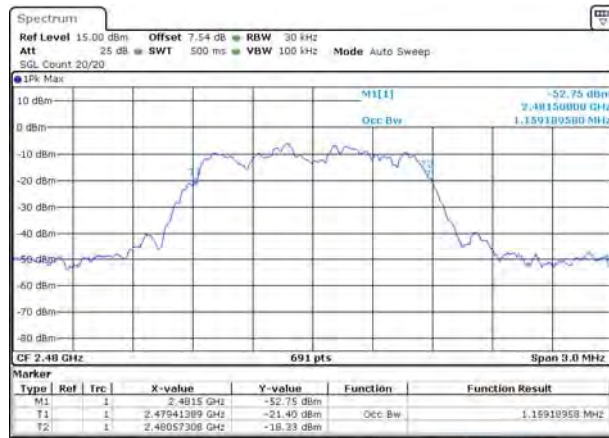
Date: 26 AUG 2019 21:07:37

8-DPSK MIDDLE CHANNEL



Date: 26 AUG 2019 21:10:36

8-DPSK HIGH CHANNEL



Date: 26 AUG 2019 21:12:50

11.5 inches

20 dB Bandwidth

GFSK LOW CHANNEL



GFSK MIDDLE CHANNEL



GFSK HIGH CHANNEL



II/4-DQPSK MIDDLE CHANNEL



II/4-DQPSK LOW CHANNEL



II/4-DQPSK HIGH CHANNEL



Date: 29 AUG 2019 11:33:19

8-DPSK LOW CHANNEL



Date: 29 AUG 2019 11:36:46

8-DPSK MIDDLE CHANNEL



Date: 29 AUG 2019 11:40:01

8-DPSK HIGH CHANNEL



Date: 29 AUG 2019 11:42:51

99% Bandwidth

GFSK LOW CHANNEL



GFSK MIDDLE CHANNEL



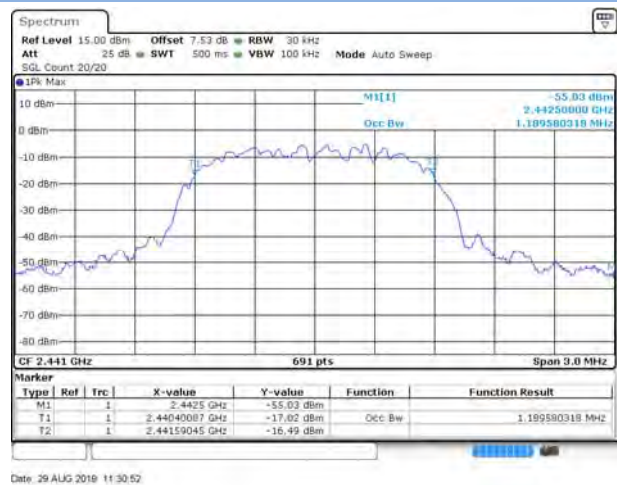
GFSK HIGH CHANNEL



II/4-DQPSK LOW CHANNEL



II/4-DQPSK MIDDLE CHANNEL



II/4-DQPSK HIGH CHANNEL



Date: 29 AUG 2019 11:33:34

8-DPSK LOW CHANNEL



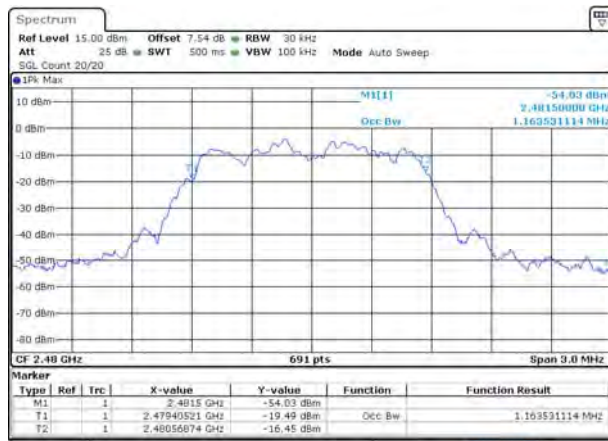
Date: 29 AUG 2019 11:37:00

8-DPSK MIDDLE CHANNEL



Date: 29 AUG 2019 11:40:15

8-DPSK HIGH CHANNEL



Date: 29 AUG 2019 11:43:06

A.4 Hopping Frequency Separation

Test Data

8 inches

Mode	Frequency separation (MHz)	Max 2/3 of the 20 dB Bandwidth (MHz)	Verdict
GFSK	1.0033	0.692708	Pass
8-DPSK	1.0033	0.866699	Pass

10.1 inches

Mode	Frequency separation (MHz)	Max 2/3 of the 20 dB Bandwidth (MHz)	Verdict
GFSK	1.0033	0.692871	Pass
8-DPSK	1.0033	0.866699	Pass

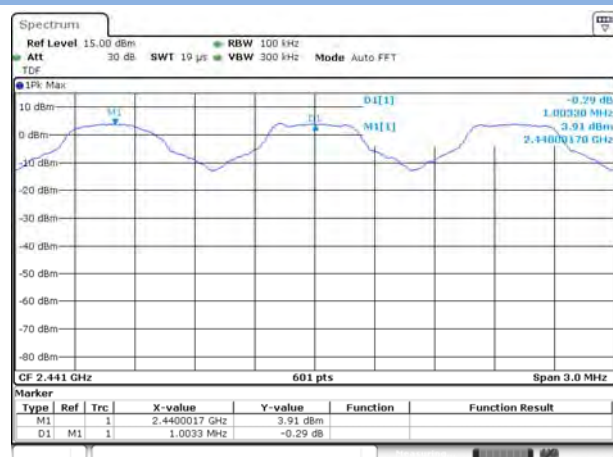
11.5 inches

Mode	Frequency separation (MHz)	Max 2/3 of the 20 dB Bandwidth (MHz)	Verdict
GFSK	1.0033	0.695638	Pass
8-DPSK	1.0033	0.866537	Pass

Test Plots

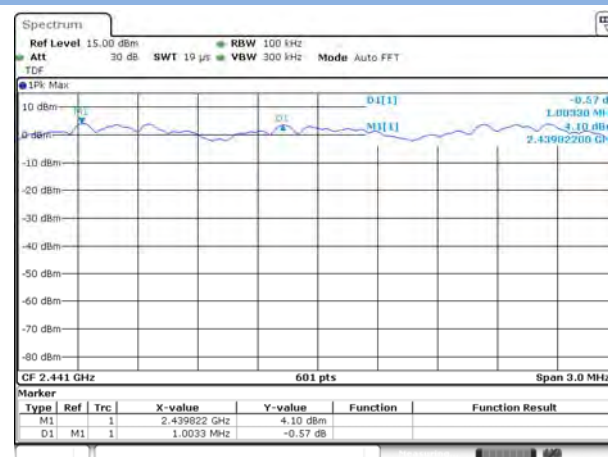
8 inches

GFSK



Date: 13 AUG 2019 20:59:39

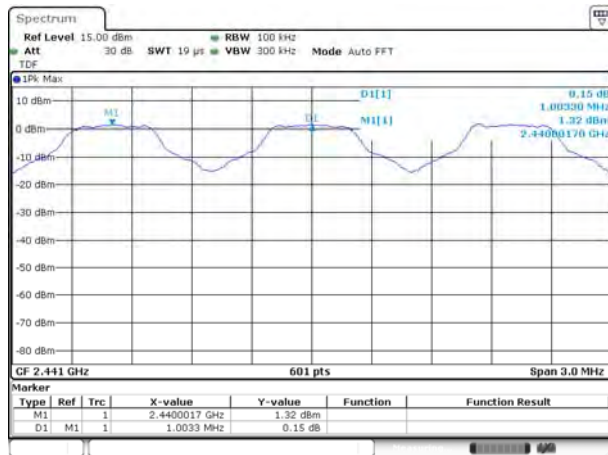
8-DPSK



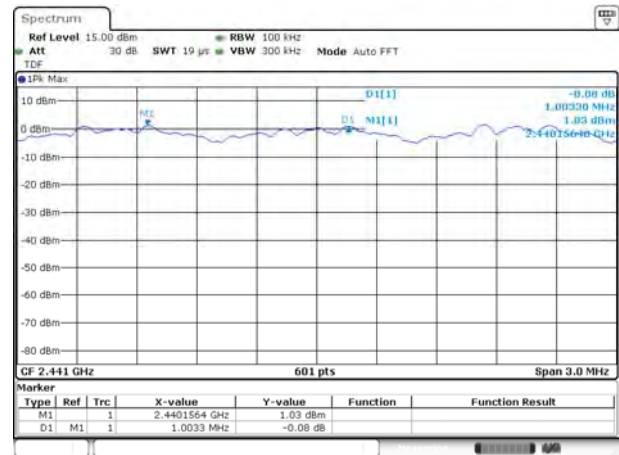
Date: 13 AUG 2019 21:05:32

10.1 inches

GFSK

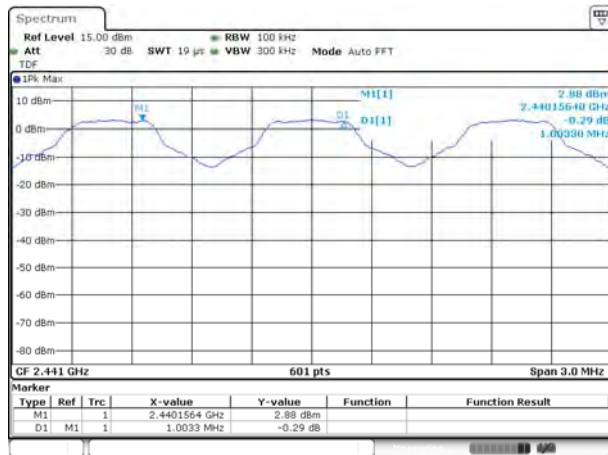


8-DPSK

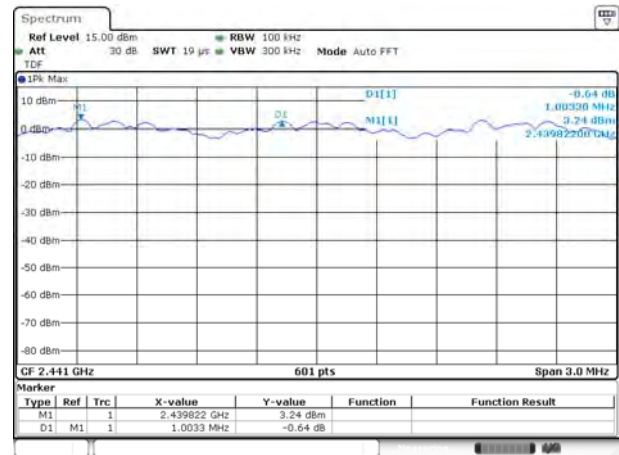


11.5 inches

GFSK



8-DPSK



A.5 Average Time of Occupancy

Test Data

8 inches

GFSK				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.36500	116.800	0.4	Pass
DH 3	1.61317	258.107	0.4	Pass
DH 5	2.85833	304.889	0.4	Pass
8-DPSK				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.38167	122.134	0.4	Pass
DH 3	1.63600	261.760	0.4	Pass
DH 5	2.87900	307.093	0.4	Pass
AFH Mode				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.36383	58.213	0.4	Pass
DH 3	1.60450	128.360	0.4	Pass
DH 5	2.86833	152.978	0.4	Pass

10.1 inches

GFSK				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.36333	116.266	0.4	Pass
DH 3	1.62000	259.200	0.4	Pass
DH 5	2.87500	306.667	0.4	Pass
8-DPSK				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.38167	122.134	0.4	Pass
DH 3	1.63500	261.600	0.4	Pass
DH 5	2.88667	307.911	0.4	Pass
AFH Mode				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.36333	58.133	0.4	Pass
DH 3	1.62000	129.600	0.4	Pass
DH 5	2.88000	153.600	0.4	Pass

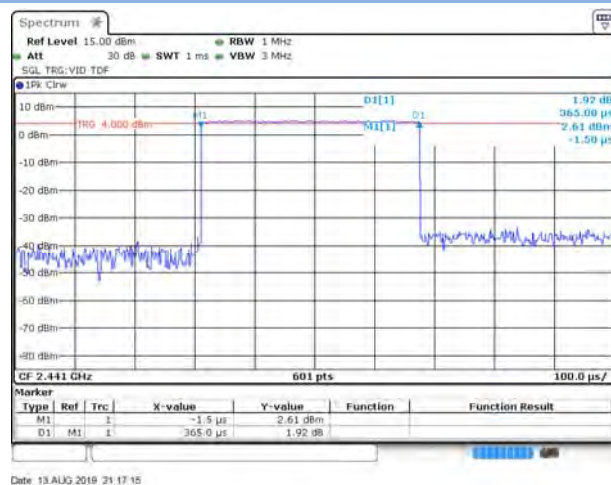
11.5 inches

GFSK				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.36283	116.106	0.4	Pass
DH 3	1.61950	259.120	0.4	Pass
DH 5	2.87167	306.311	0.4	Pass
8-DPSK				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.38167	122.134	0.4	Pass
DH 3	1.63500	261.600	0.4	Pass
DH 5	2.89333	308.622	0.4	Pass
AFH Mode				
DH Packet	Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
DH 1	0.36333	58.133	0.4	Pass
DH 3	1.62000	129.600	0.4	Pass
DH 5	2.87500	153.333	0.4	Pass

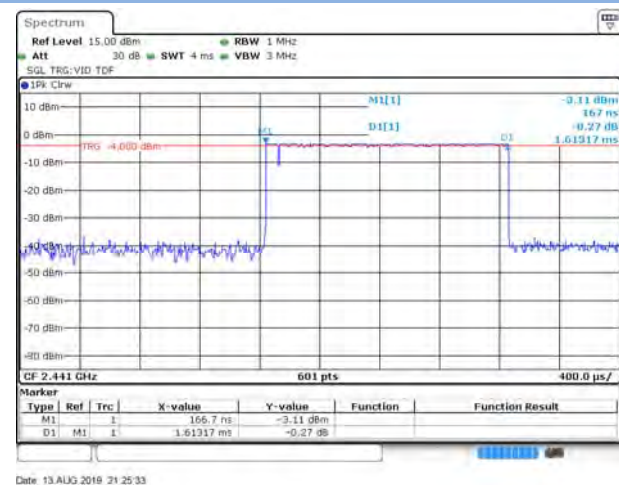
Test Plots

8 inches

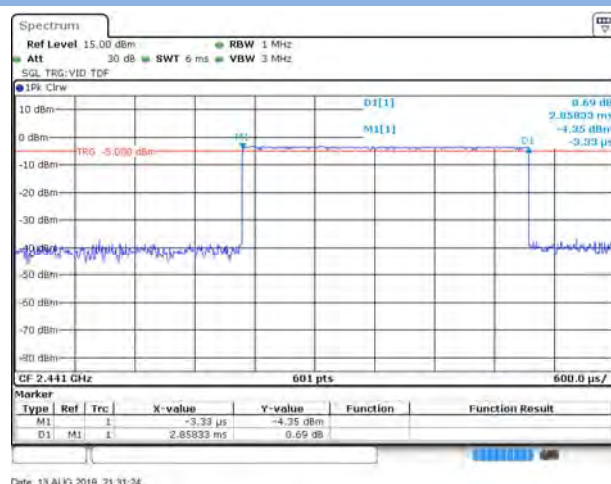
GFSK DH1



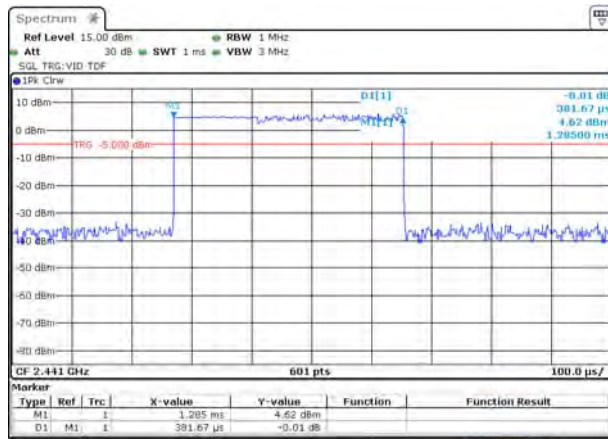
GFSK DH3



GFSK DH5

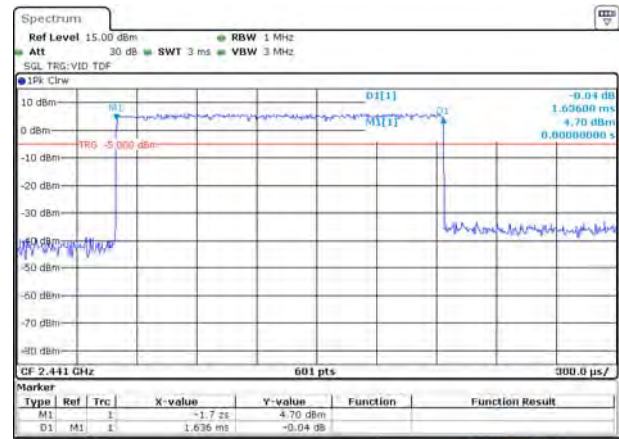


8-DPSK DH1



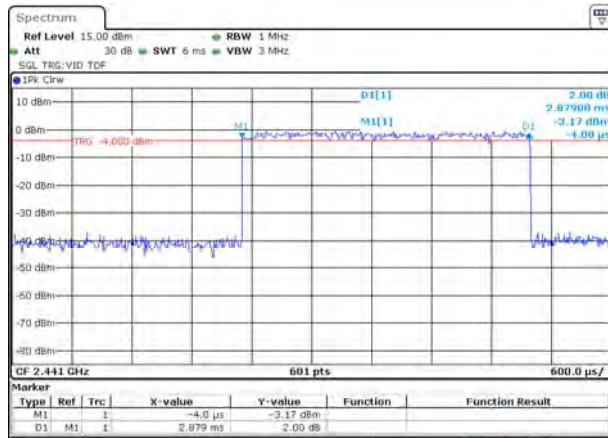
Date 13.AUG.2019 21:34:31

8-DPSK DH3



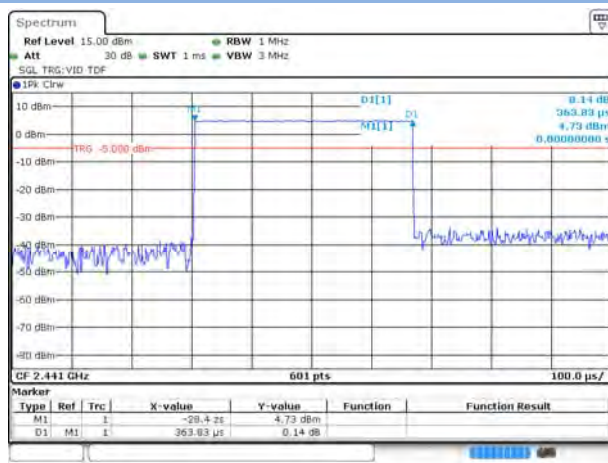
Date 13.AUG.2019 21:38:25

8-DPSK DH5



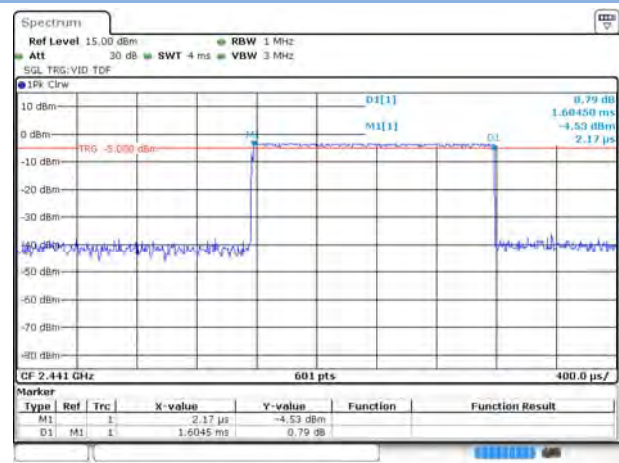
Date 13.AUG.2019 21:39:47

AFH Mode DH1



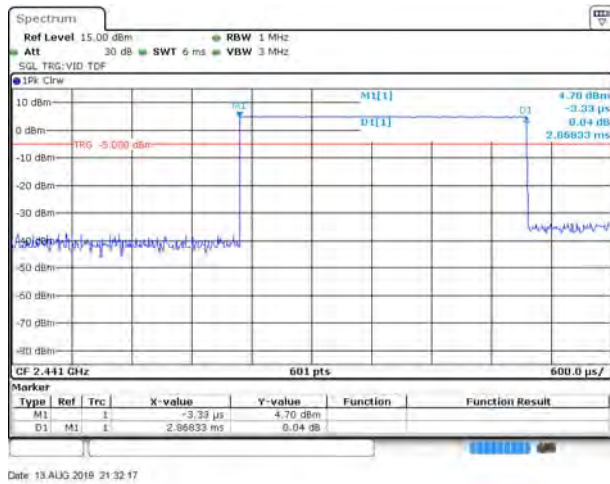
Date 13.AUG.2019 21:28:39

AFH Mode DH3



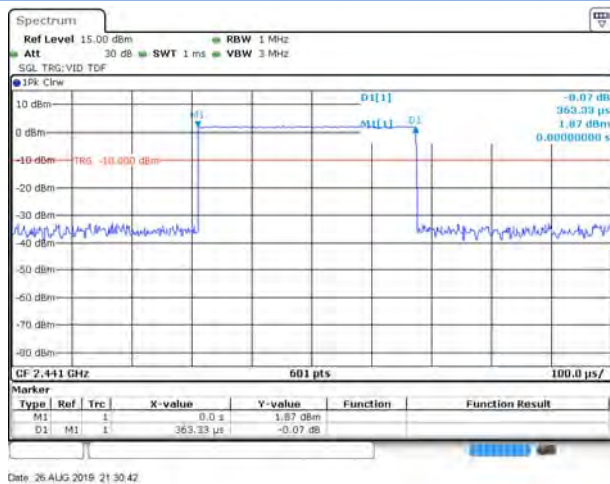
Date 13.AUG.2019 21:30:15

AFH Mode DH5

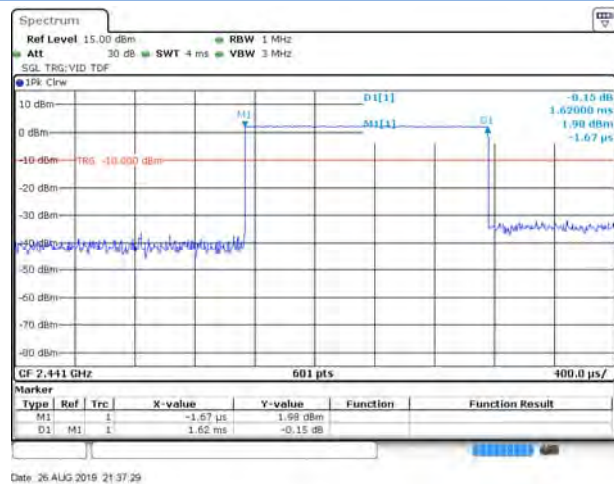


10.1 inches

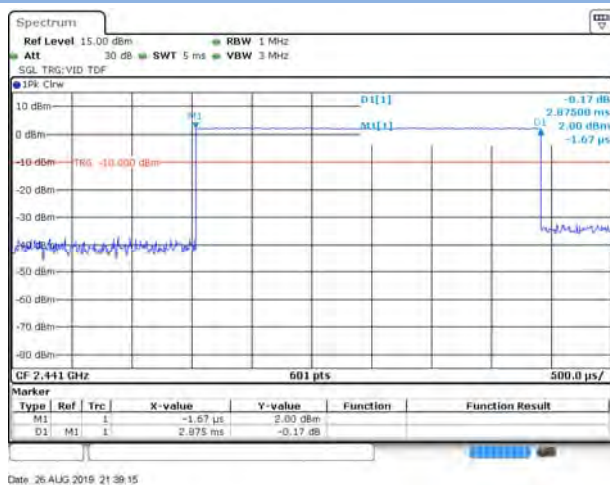
GFSK DH1



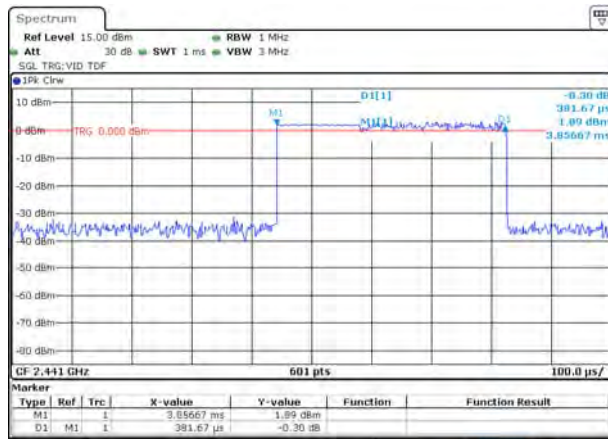
GFSK DH3



GFSK DH5

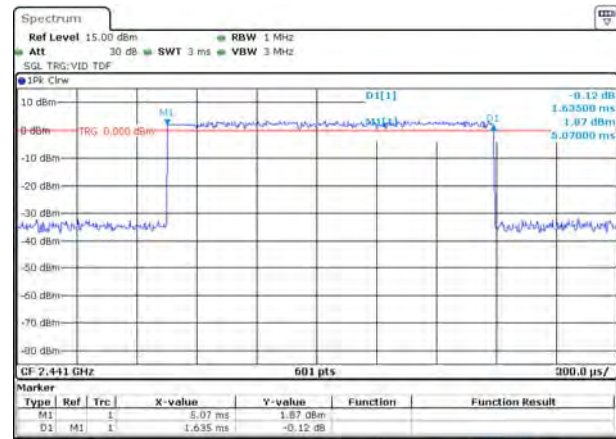


8-DPSK DH1



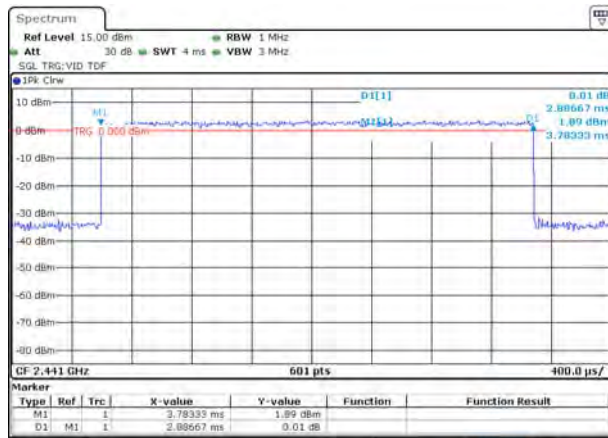
Date: 26 AUG 2019 21:48:40

8-DPSK DH3



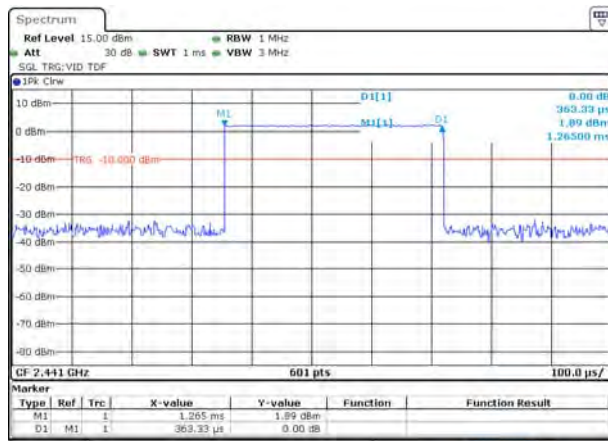
Date: 26 AUG 2019 21:51:14

8-DPSK DH5



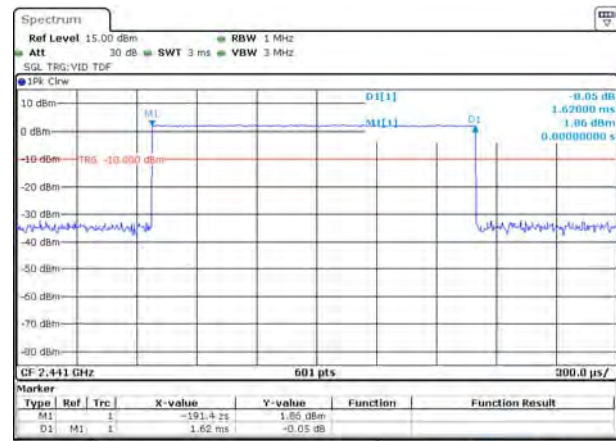
Date: 26 AUG 2019 21:53:23

AFH Mode DH1



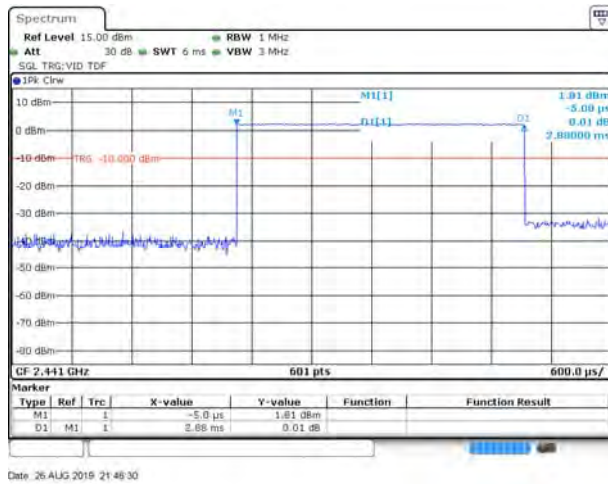
Date: 26 AUG 2019 21:41:14

AFH Mode DH3



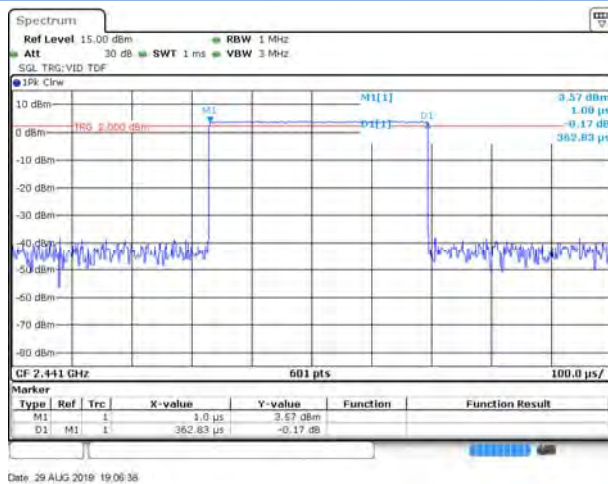
Date: 26 AUG 2019 21:43:20

AFH Mode DH5

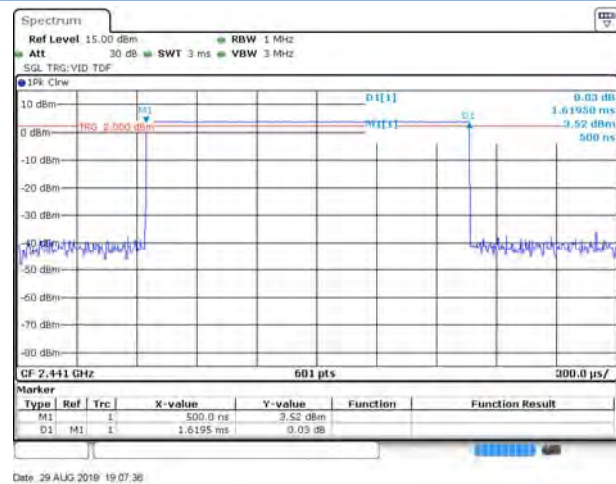


11.5 inches

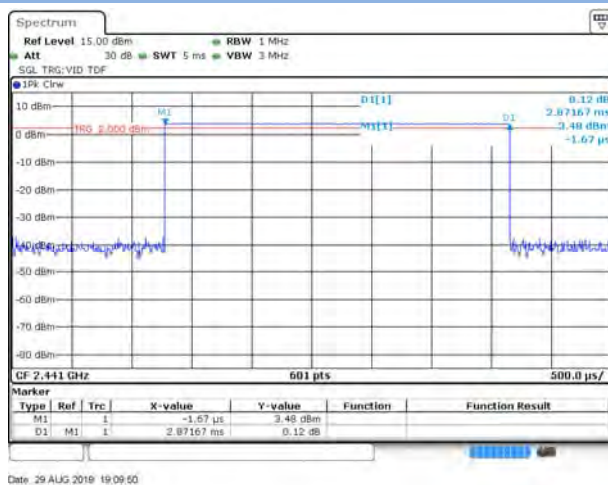
GFSK DH1



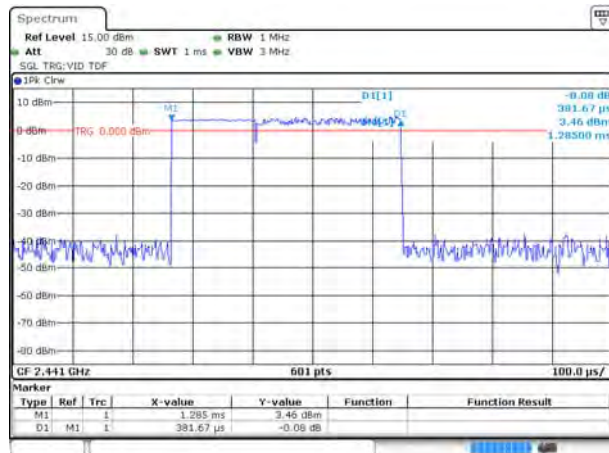
GFSK DH3



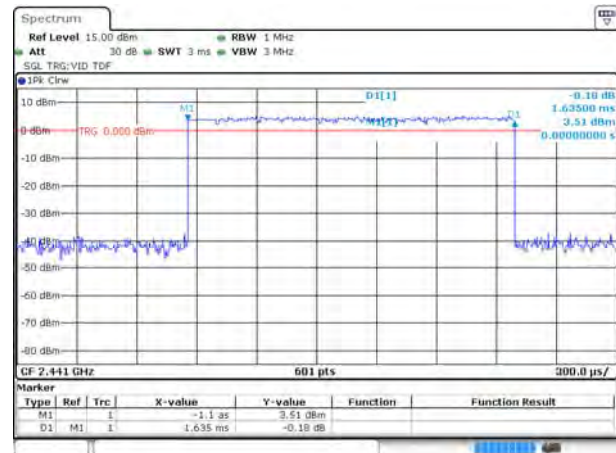
GFSK DH5



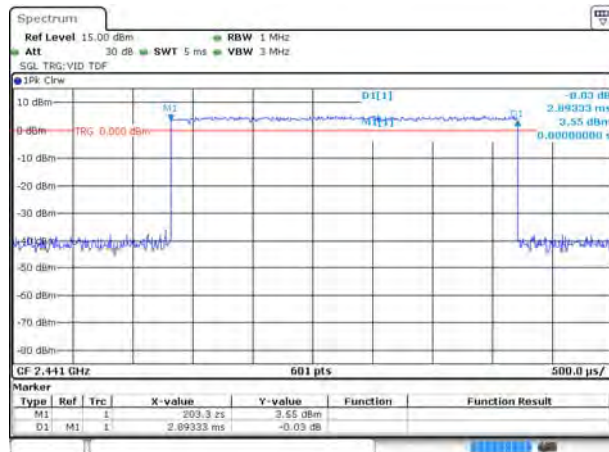
8-DPSK DH1



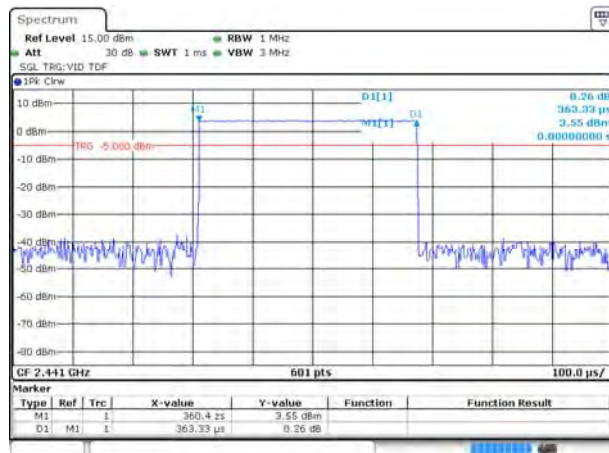
8-DPSK DH3



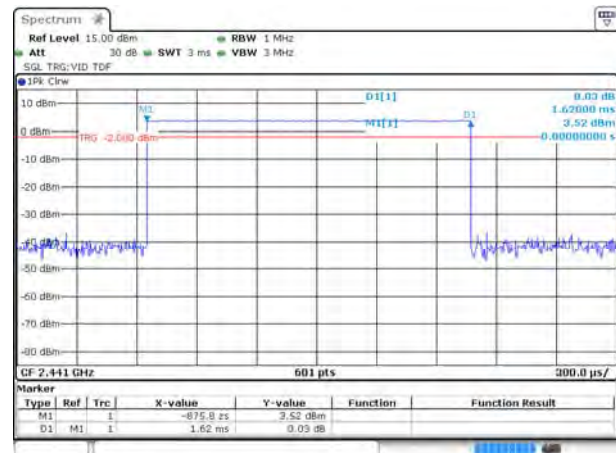
8-DPSK DH5



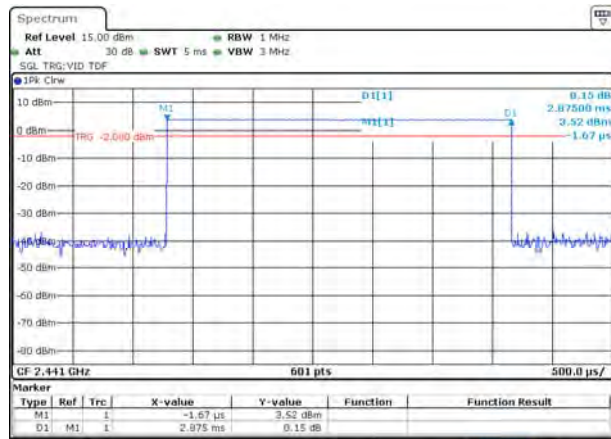
AFH Mode DH1



AFH Mode DH3



AFH Mode DH5



Date: 29 AUG 2019 19:16:09

A.6 Conducted Spurious Emissions & Authorized-band band-edge

Test Data

8 inches

GFSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-27.82	3.39	-16.61	Pass
Middle	-27.13	3.43	-16.57	Pass
High	-27.05	3.41	-16.59	Pass
8-DPSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-27.78	0.76	-19.24	Pass
Middle	-27.69	0.85	-19.15	Pass
High	-27.44	0.80	-19.20	Pass
Hopping Mode				
Mode	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
GFSK	-27.52	4.18	-15.82	Pass
8-DPSK	-27.55	4.29	-15.71	Pass

10.1 inches

GFSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-27.53	1.15	-18.85	Pass
Middle	-26.53	1.19	-18.81	Pass
High	-26.88	1.12	-18.88	Pass
8-DPSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-32.33	-1.82	-21.82	Pass
Middle	-30.98	-1.71	-21.71	Pass
High	-32.71	-1.69	-21.69	Pass

Hopping Mode				
Mode	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
GFSK	-26.56	1.71	-18.29	Pass
8-DPSK	-26.47	1.82	-18.18	Pass

11.5 inches

GFSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-27.43	1.76	-18.24	Pass
Middle	-27.11	2.31	-17.69	Pass
High	-26.74	2.66	-17.34	Pass
8-DPSK				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-26.05	-0.61	-20.61	Pass
Middle	-27.13	-0.03	-20.03	Pass
High	-27.37	-0.30	-20.30	Pass

Hopping Mode				
Mode	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
GFSK	-26.82	3.50	-16.50	Pass
8-DPSK	-27.02	3.35	-16.65	Pass

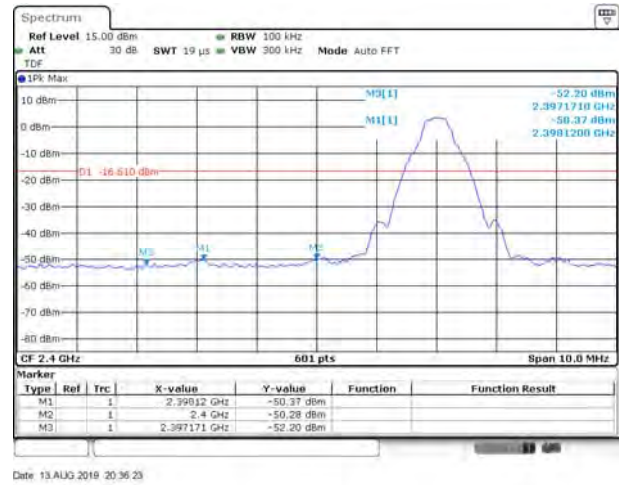
Test Plots

8 inches

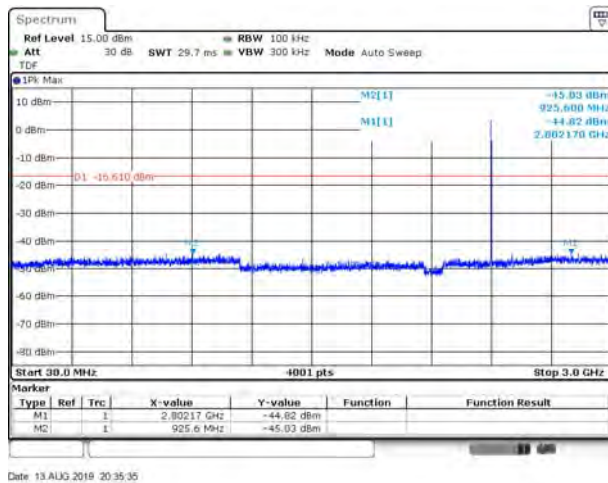
GFSK LOW CHANNEL, CARRIER LEVEL



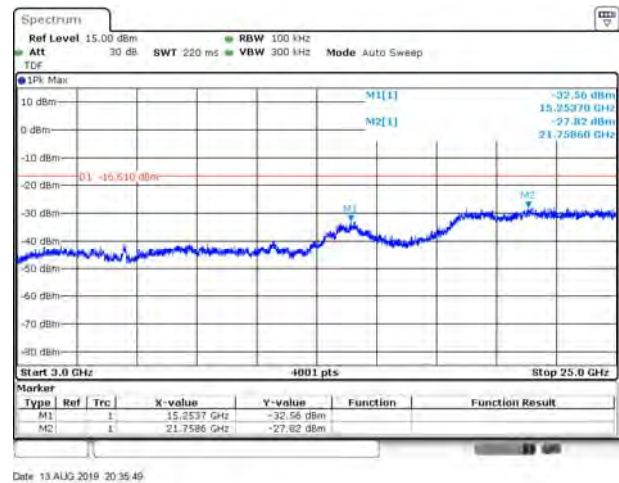
GFSK LOW CHANNEL, BAND EDGE



GFSK LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



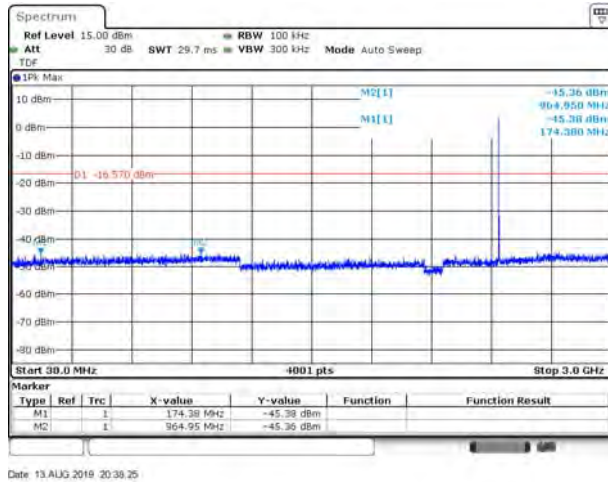
GFSK LOW CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



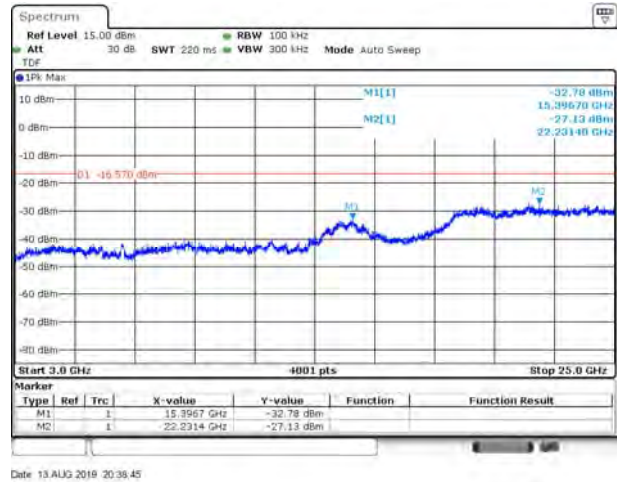
GFSK MIDDLE CHANNEL, CARRIER LEVEL



GFSK MIDDLE CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



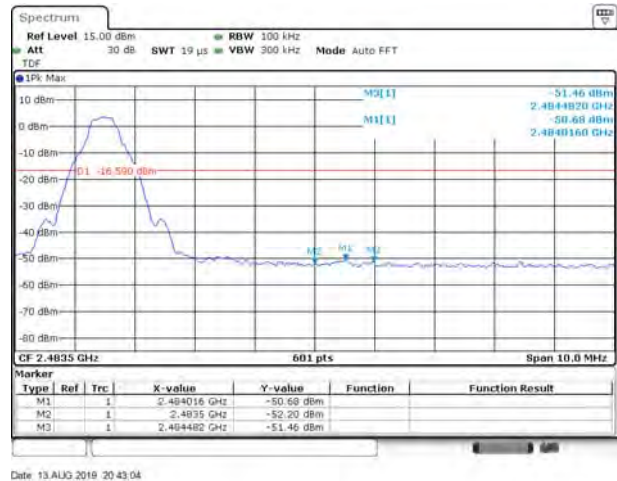
GFSK MIDDLE CHANNEL , SPURIOUS 3 GHz ~ 25 GHz



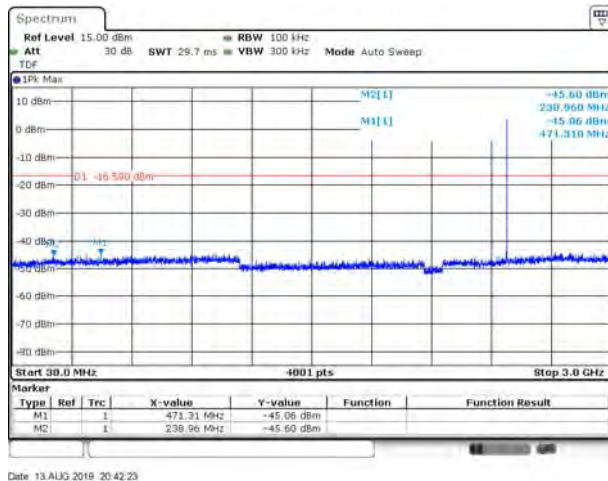
GFSK HIGH CHANNEL , CARRIER LEVEL



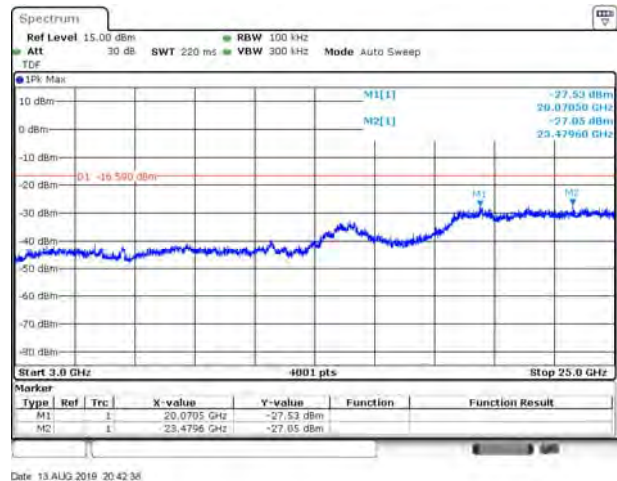
GFSK HIGH CHANNEL , BAND EDGE



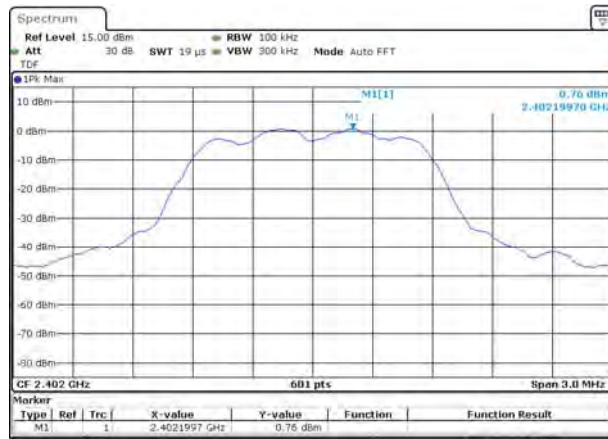
GFSK HIGH CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



GFSK HIGH CHANNEL , SPURIOUS 3 GHz ~ 25 GHz

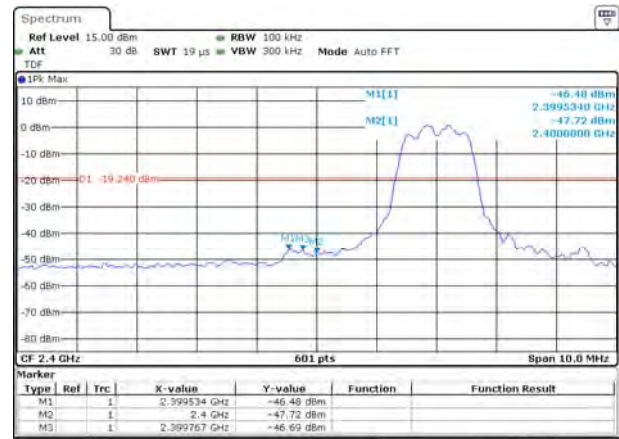


8-DPSK LOW CHANNEL, CARRIER LEVEL



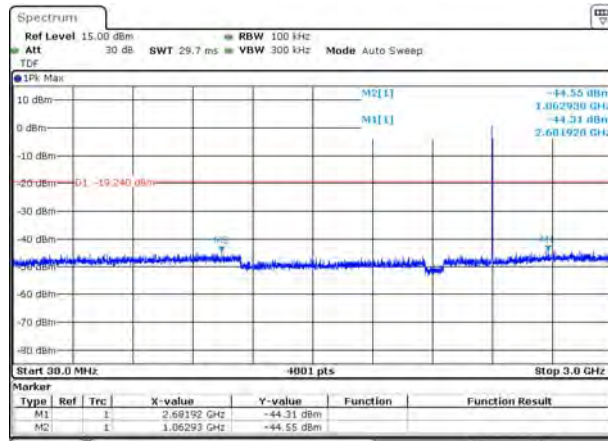
Date 13 AUG 2019 20:48:54

8-DPSK LOW CHANNEL, BAND EDGE



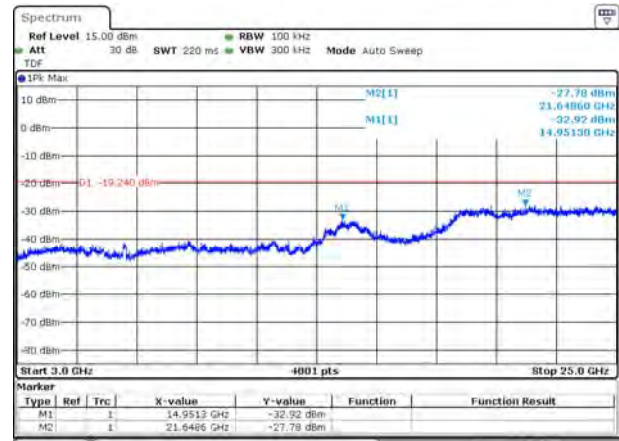
Date 13 AUG 2019 20:51:08

8-DPSK LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



Date 13 AUG 2019 20:50:15

8-DPSK LOW CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



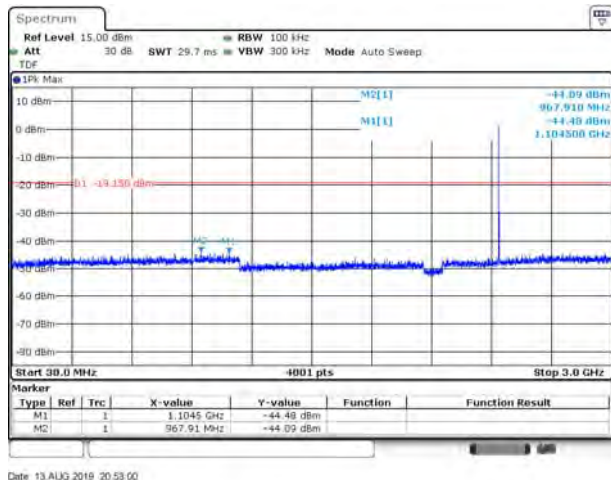
Date 13 AUG 2019 20:50:34

8-DPSK MIDDLE CHANNEL, CARRIER LEVEL

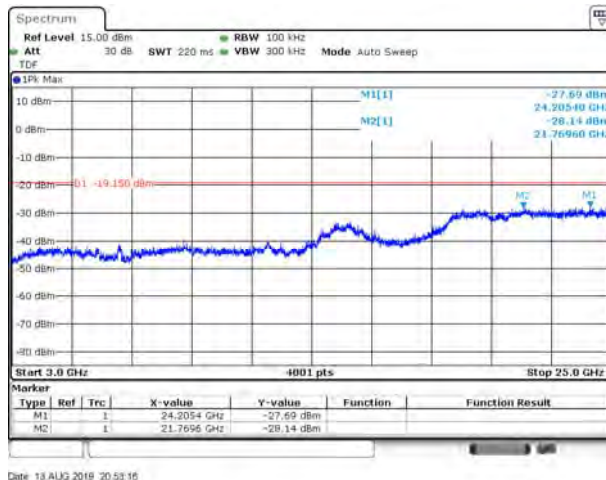


Date 13 AUG 2019 20:52:31

8-DPSK MIDDLE CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



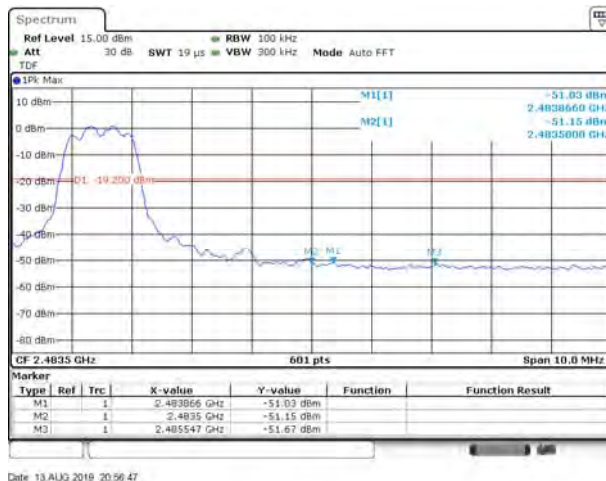
8-DPSK MIDDLE CHANNEL , SPURIOUS 3 GHz ~ 25 GHz



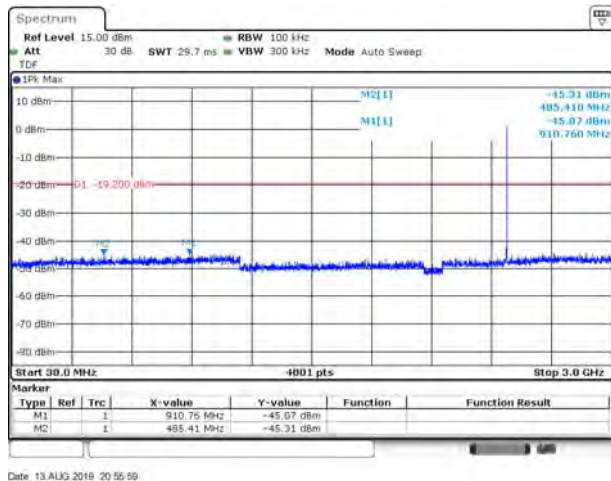
8-DPSK HIGH CHANNEL , CARRIER LEVEL



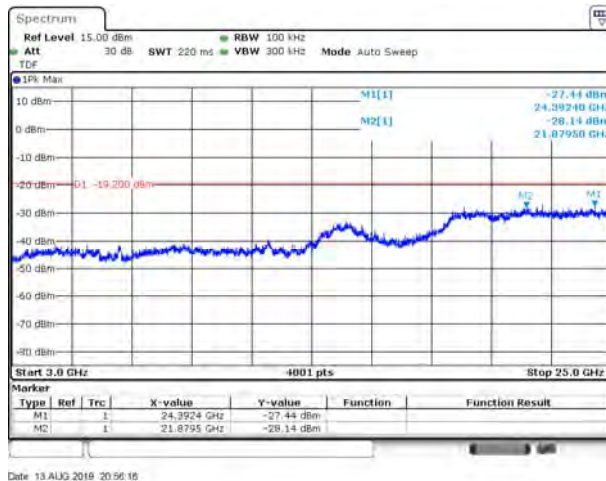
8-DPSK HIGH CHANNEL , BAND EDGE



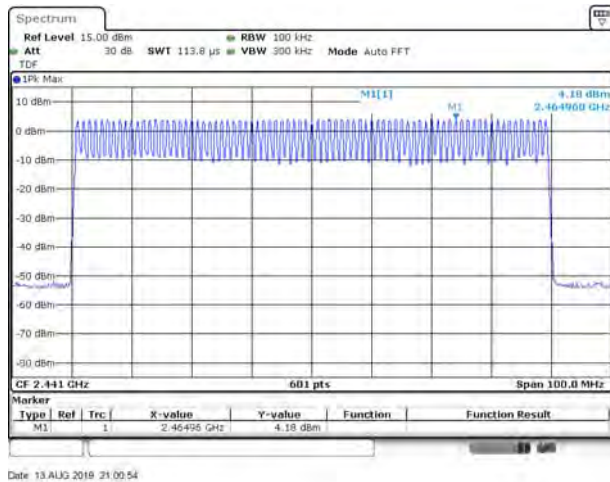
8-DPSK HIGH CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



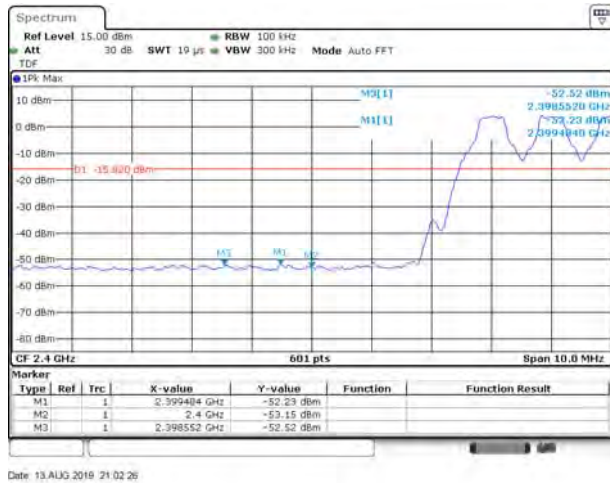
8-DPSK HIGH CHANNEL , SPURIOUS 3 GHz ~ 25 GHz



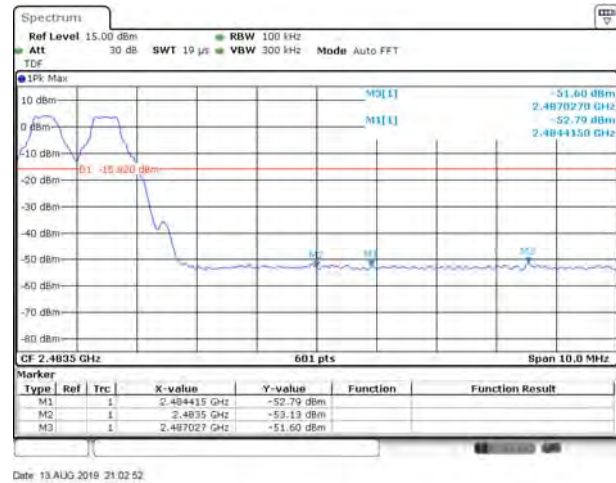
GFSK HOPPING, CARRIER LEVEL



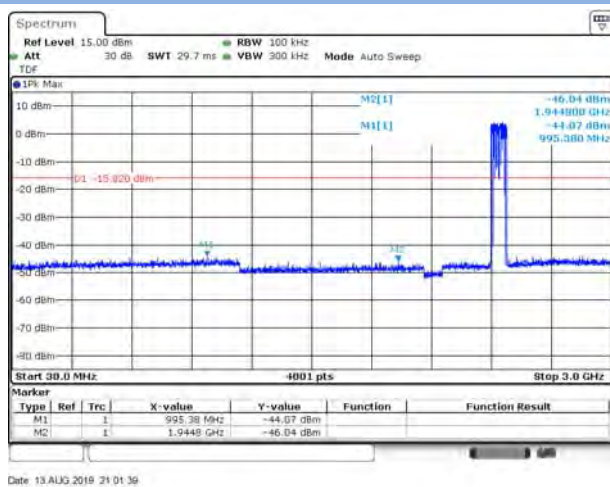
GFSK HOPPING BAND EDGE (LOW)



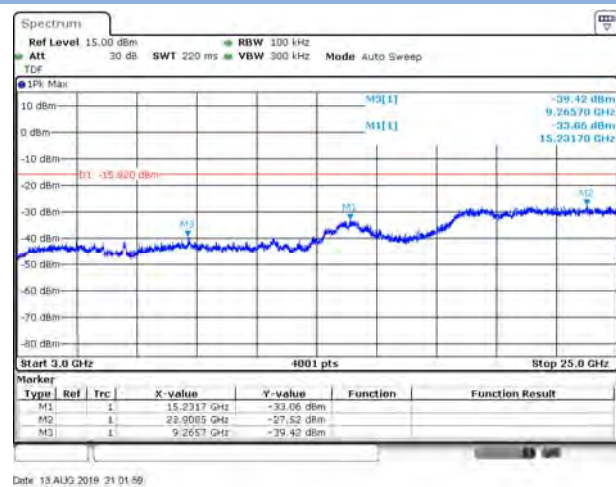
GFSK HOPPING BAND EDGE (HIGH)



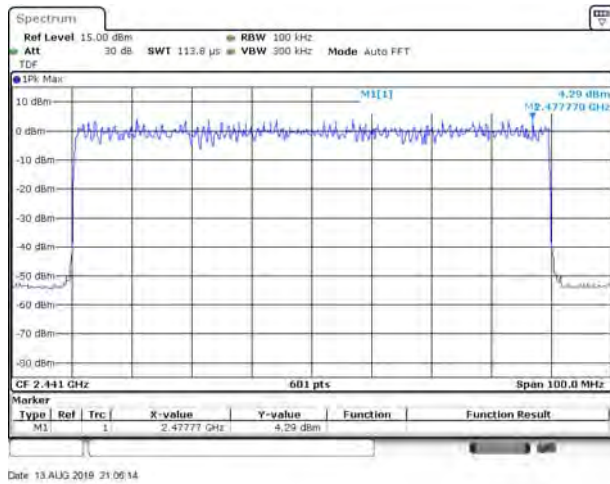
GFSK Hopping Mode, SPURIOUS 30 MHz ~ 3 GHz



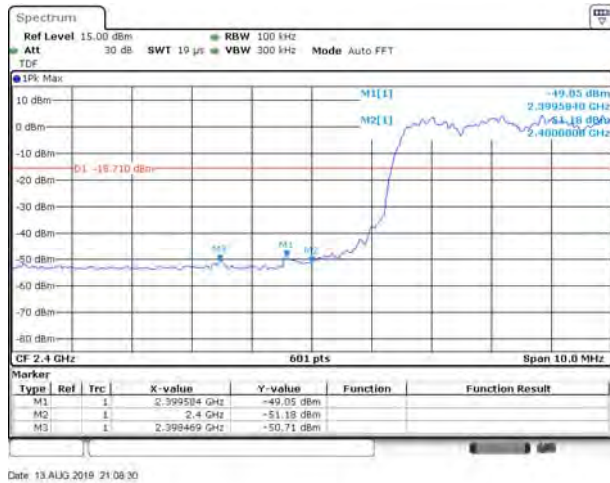
GFSK Hopping Mode, SPURIOUS 30 3GHz ~ 25 GHz



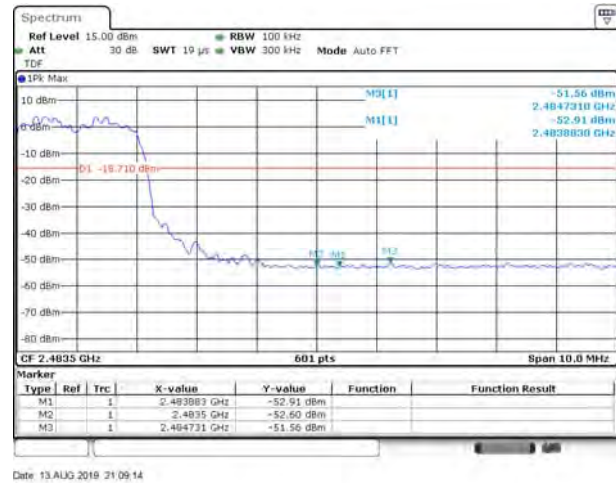
8-DPSK HOPPING, CARRIER LEVEL



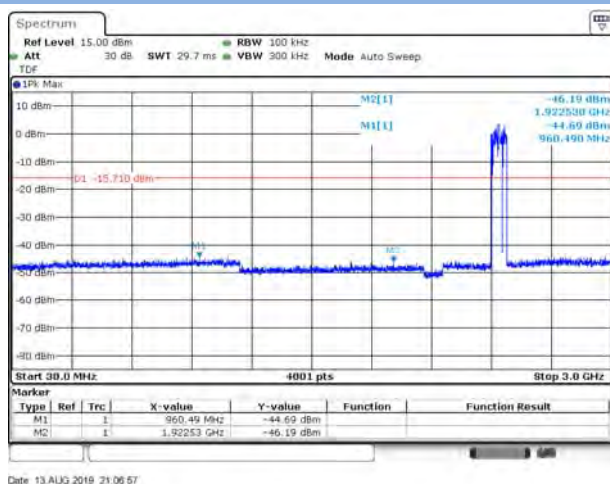
8-DPSK Hopping BAND EDGE (LOW)



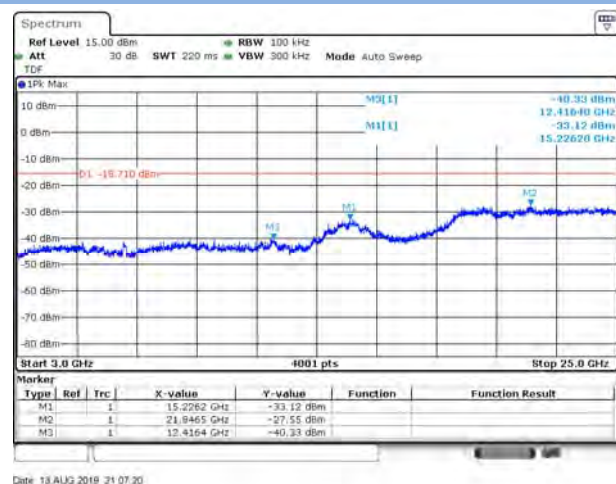
8-DPSK Hopping BAND EDGE (HIGH)



8-DPSK Hopping Mode, SPURIOUS 30 MHz ~ 3 GHz



8-DPSK Hopping Mode, SPURIOUS 30 3GHz ~ 25 GHz

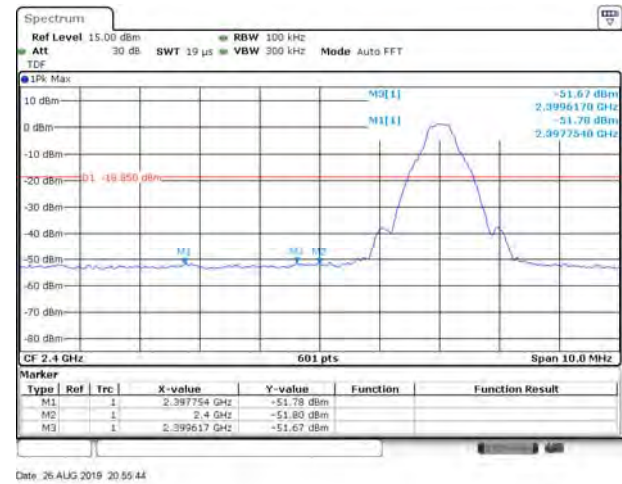


10.1 inches

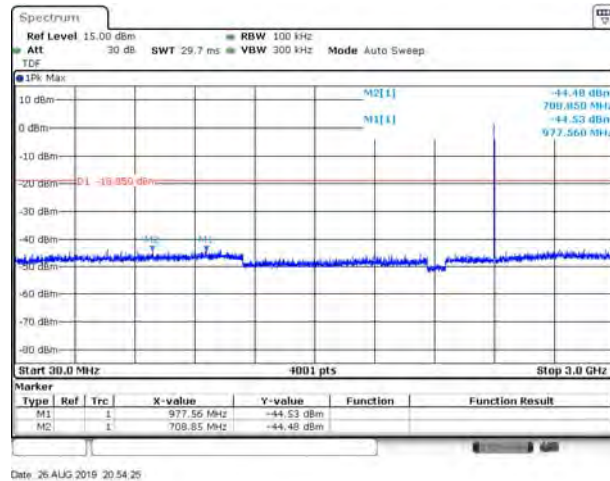
GFSK LOW CHANNEL, CARRIER LEVEL



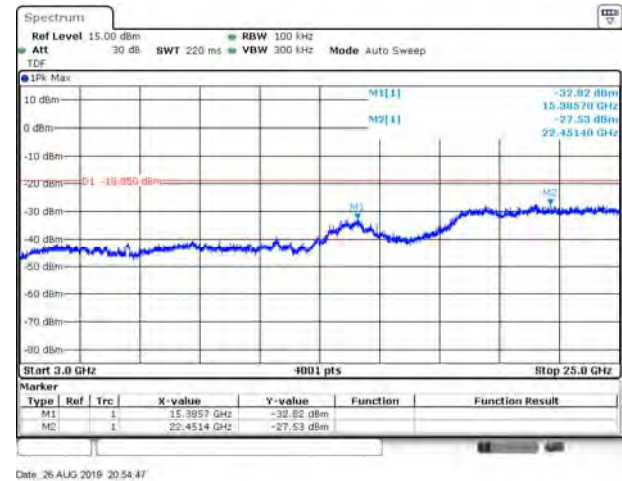
GFSK LOW CHANNEL, BAND EDGE



GFSK LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



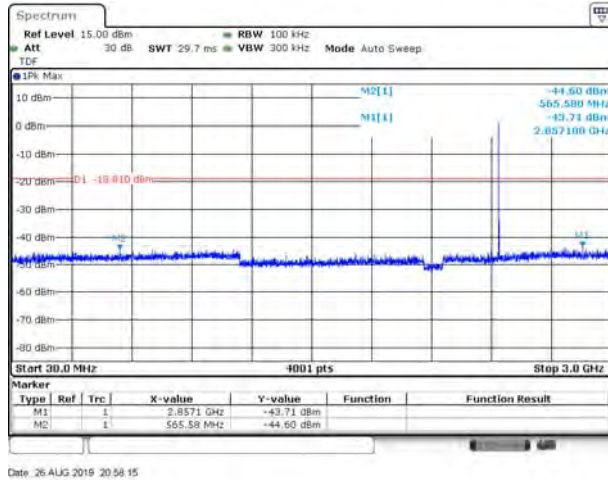
GFSK LOW CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



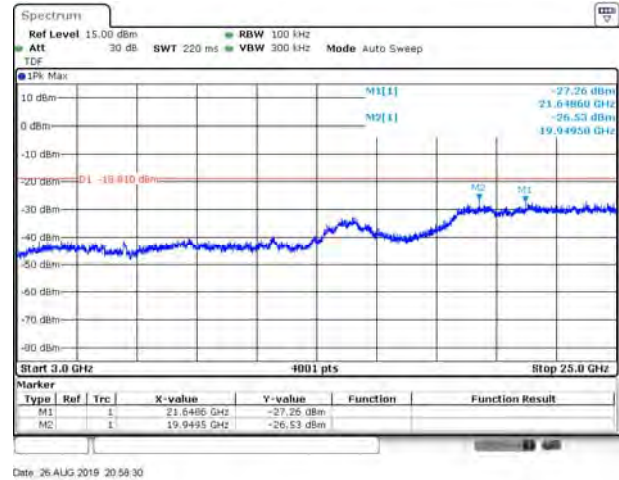
GFSK MIDDLE CHANNEL, CARRIER LEVEL



GFSK MIDDLE CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



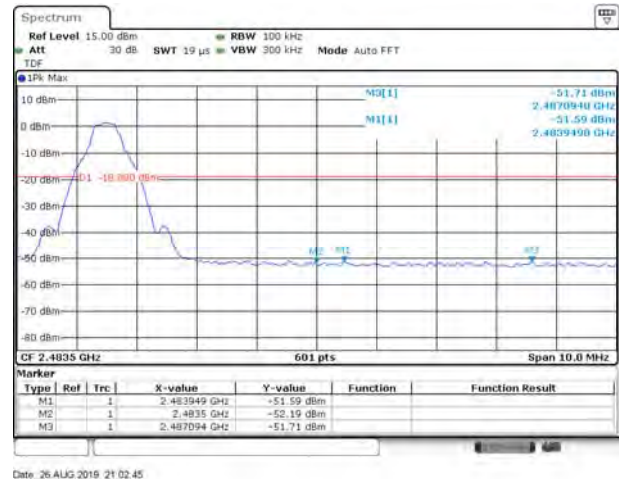
GFSK MIDDLE CHANNEL , SPURIOUS 3 GHz ~ 25 GHz



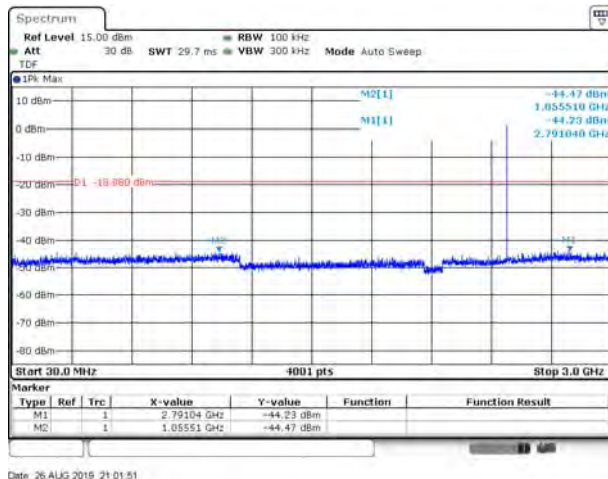
GFSK HIGH CHANNEL, CARRIER LEVEL



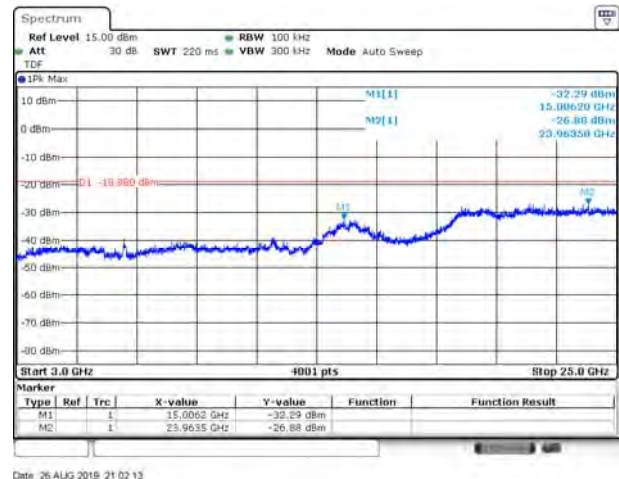
GFSK HIGH CHANNEL , BAND EDGE



GFSK HIGH CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



GFSK HIGH CHANNEL , SPURIOUS 3 GHz ~ 25 GHz

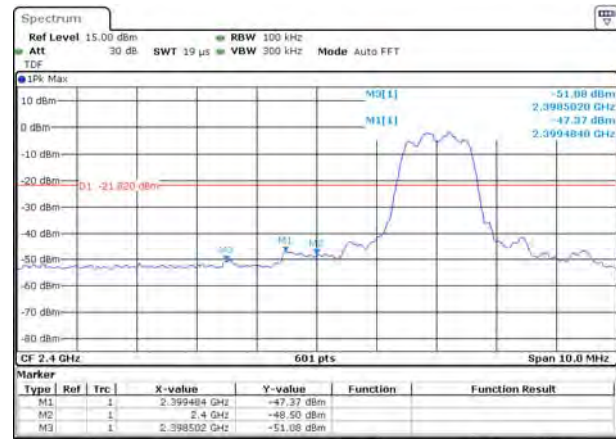


8-DPSK LOW CHANNEL, CARRIER LEVEL



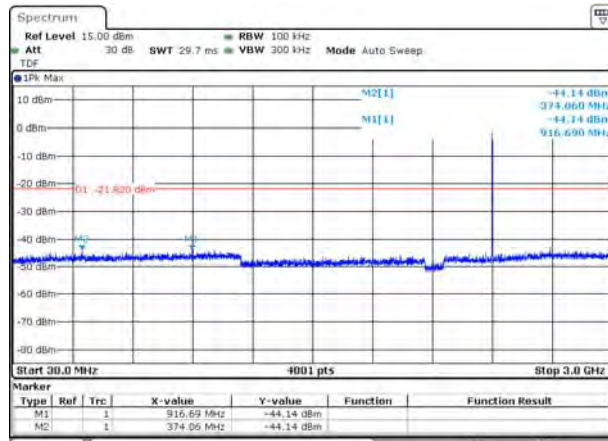
Date: 26 AUG 2019 21:07:51

8-DPSK LOW CHANNEL, BAND EDGE



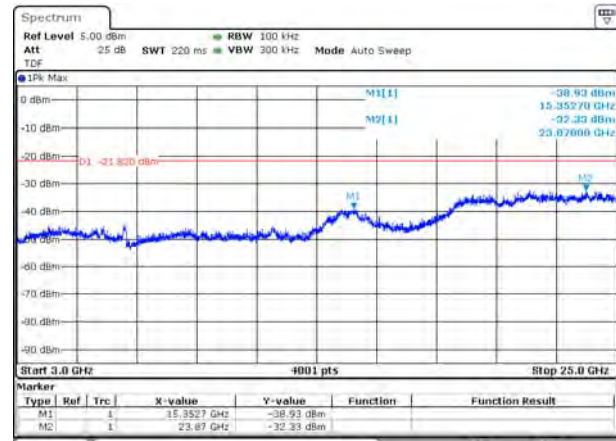
Date: 26 AUG 2019 21:09:40

8-DPSK LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



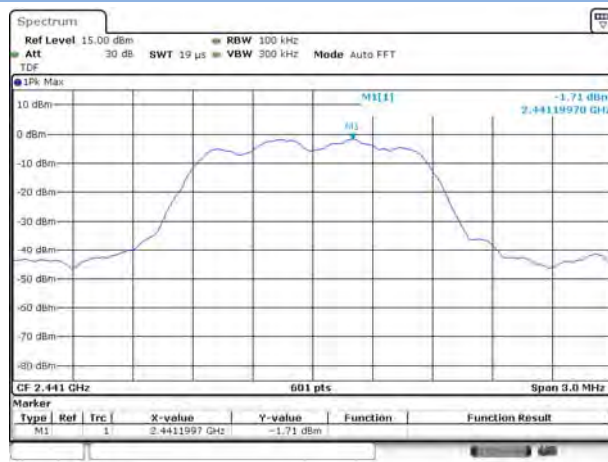
Date: 26 AUG 2019 21:09:30

8-DPSK LOW CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



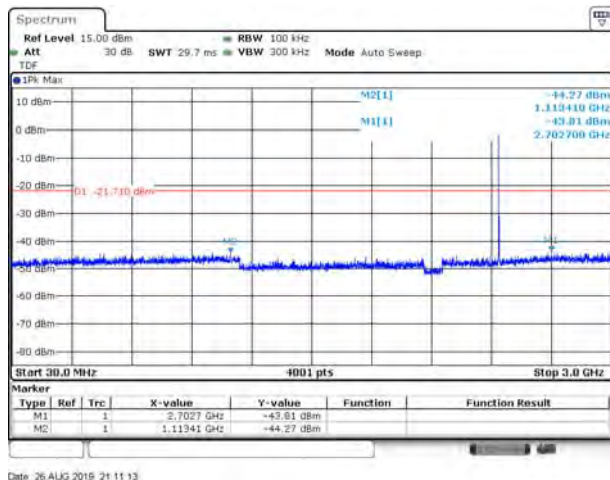
Date: 26 AUG 2019 21:09:13

8-DPSK MIDDLE CHANNEL, CARRIER LEVEL

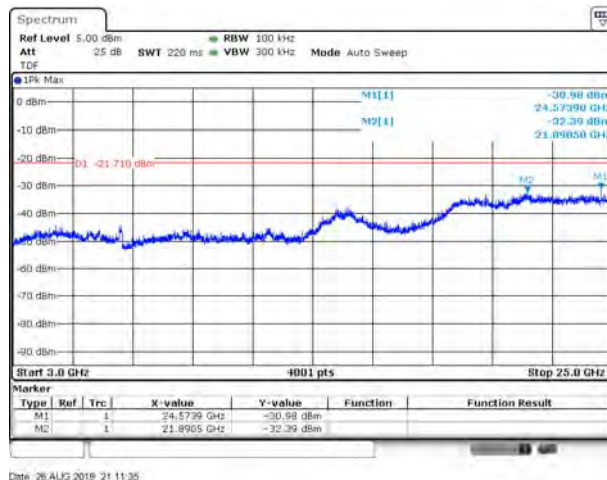


Date: 26 AUG 2019 21:10:52

8-DPSK MIDDLE CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



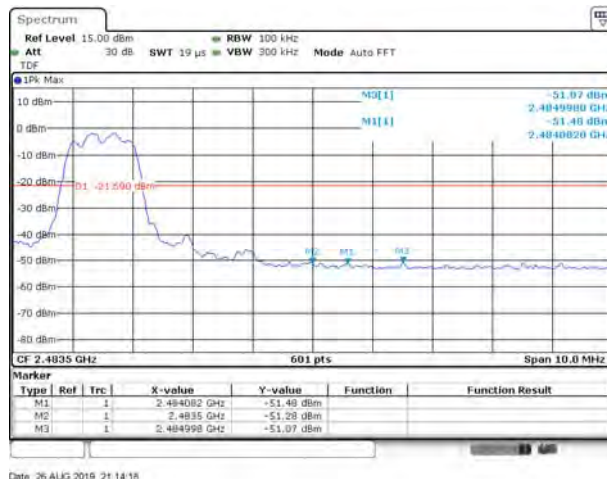
8-DPSK MIDDLE CHANNEL , SPURIOUS 3 GHz ~ 25 GHz



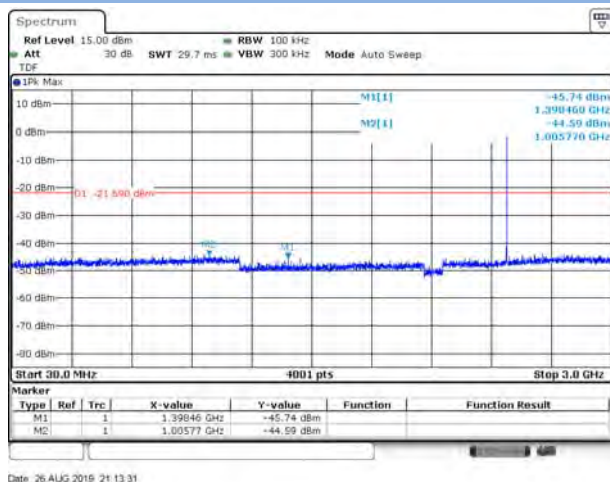
8-DPSK HIGH CHANNEL, CARRIER LEVEL



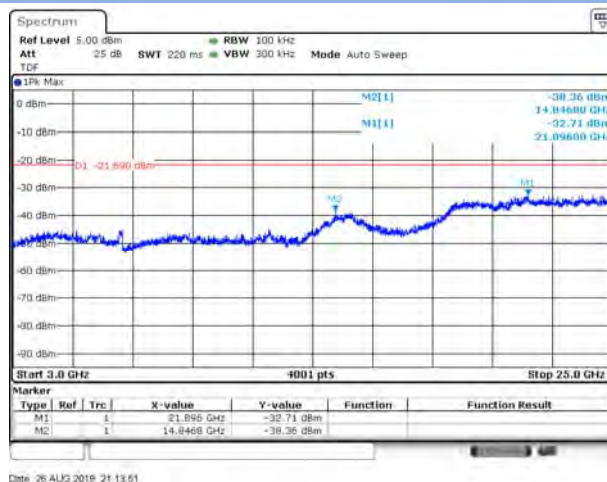
8-DPSK HIGH CHANNEL , BAND EDGE



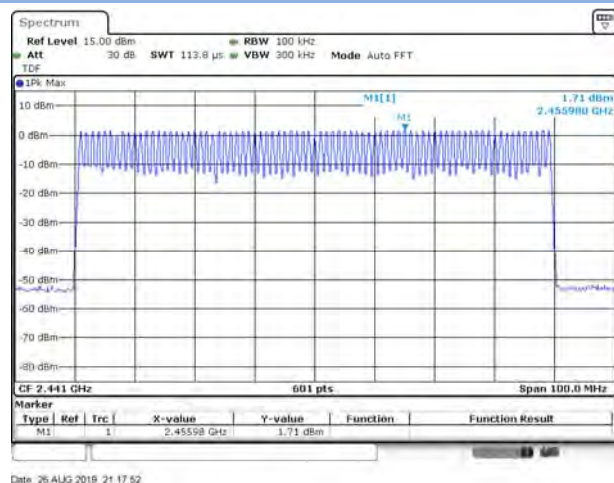
8-DPSK HIGH CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



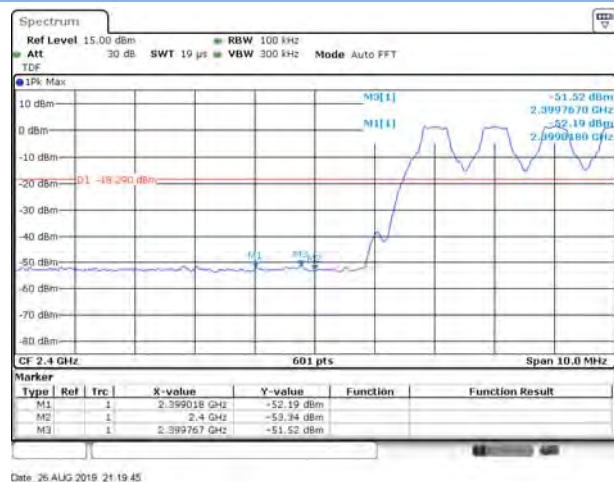
8-DPSK HIGH CHANNEL , SPURIOUS 3 GHz ~ 25 GHz



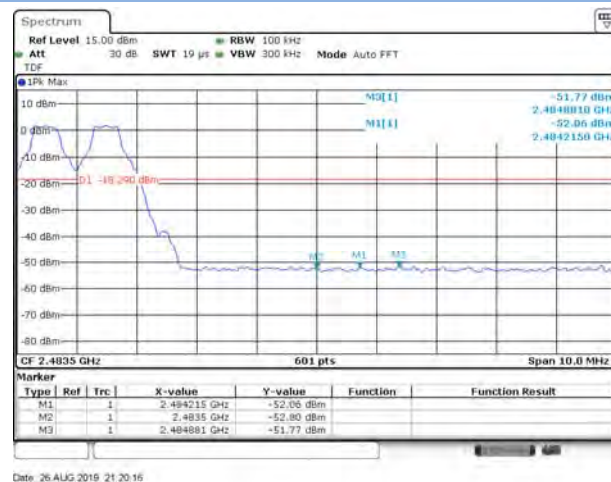
GFSK HOPPING, CARRIER LEVEL



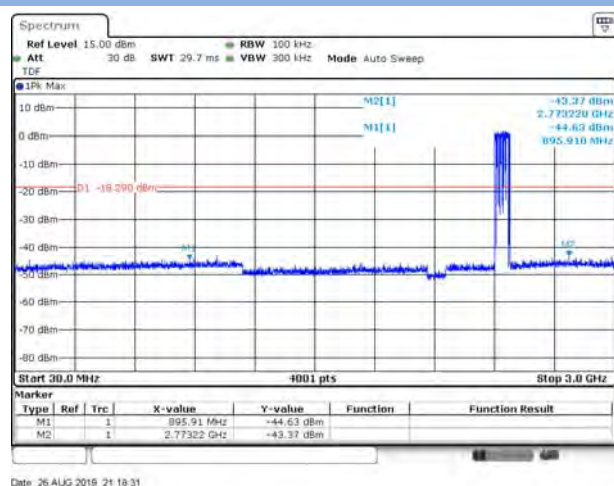
GFSK HOPPING BAND EDGE (LOW)



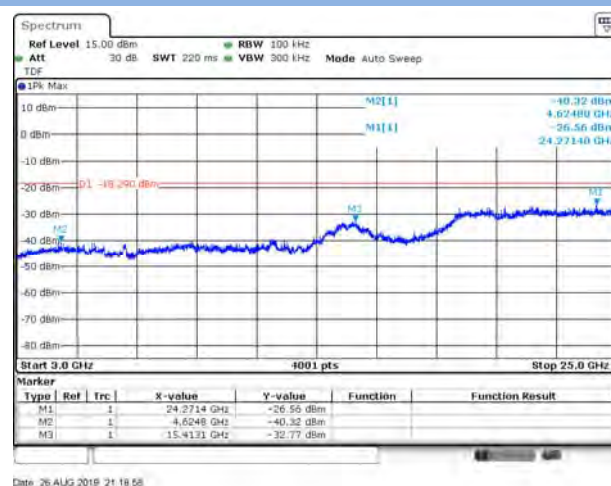
GFSK HOPPING BAND EDGE (HIGH)



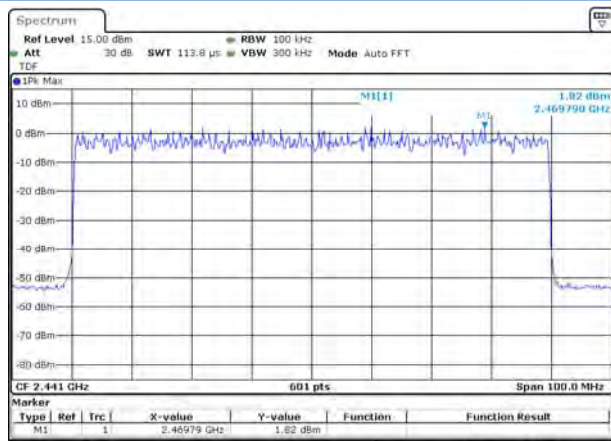
GFSK Hopping Mode, SPURIOUS 30 MHz ~ 3 GHz



GFSK Hopping Mode, SPURIOUS 30 3GHz ~ 25 GHz



8-DPSK HOPPING, CARRIER LEVEL



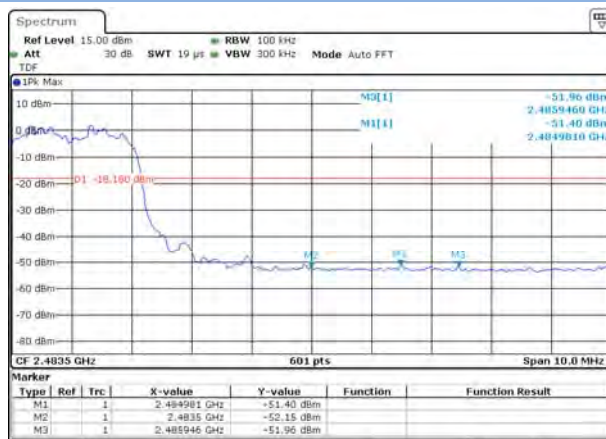
Date: 26 AUG 2019 21:25:08

8-DPSK Hopping BAND EDGE (LOW)



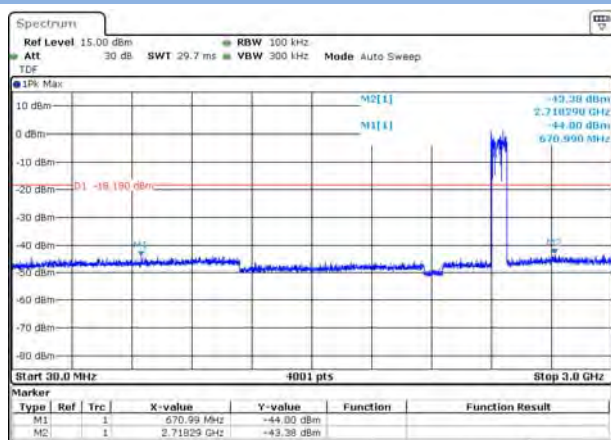
Date: 26 AUG 2019 21:27:22

8-DPSK Hopping BAND EDGE (HIGH)



Date: 26 AUG 2019 21:27:50

8-DPSK Hopping Mode, SPURIOUS 30 MHz ~ 3 GHz



Date: 26 AUG 2019 21:26:20

8-DPSK Hopping Mode, SPURIOUS 30 3GHz ~ 25 GHz



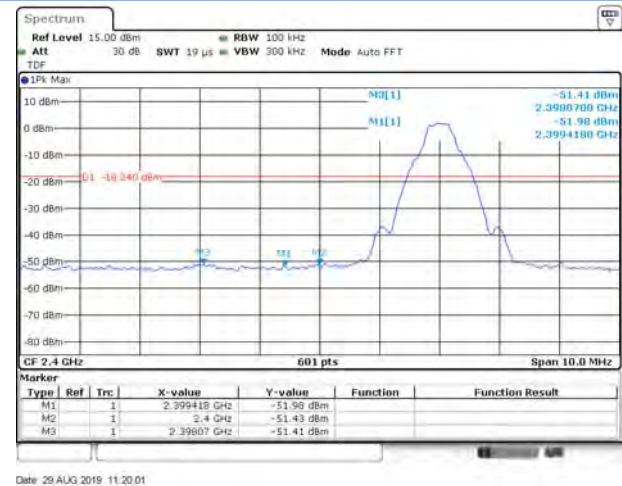
Date: 26 AUG 2019 21:26:50

11.5 inches

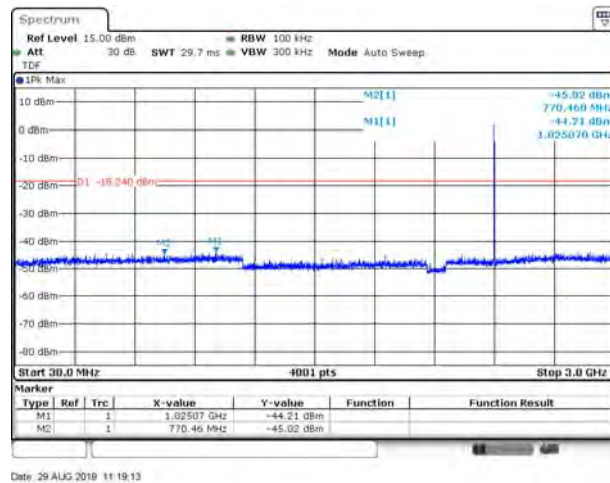
GFSK LOW CHANNEL, CARRIER LEVEL



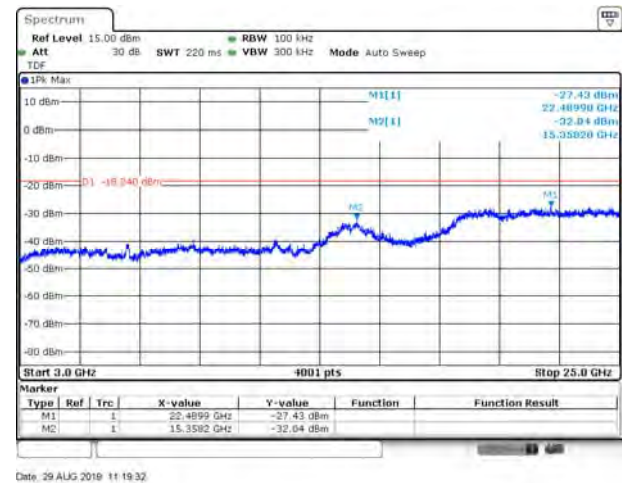
GFSK LOW CHANNEL, BAND EDGE



GFSK LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



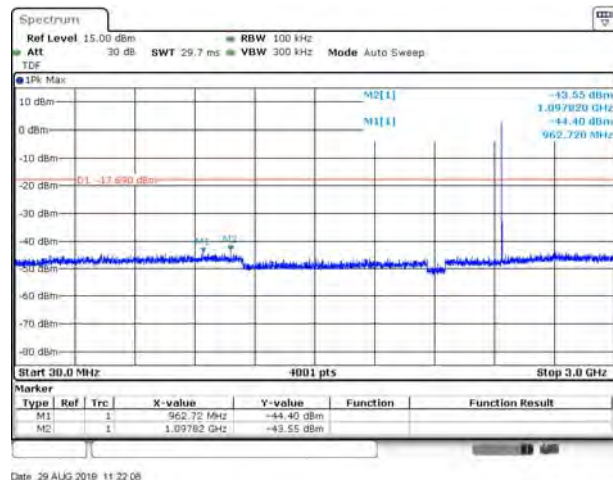
GFSK LOW CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



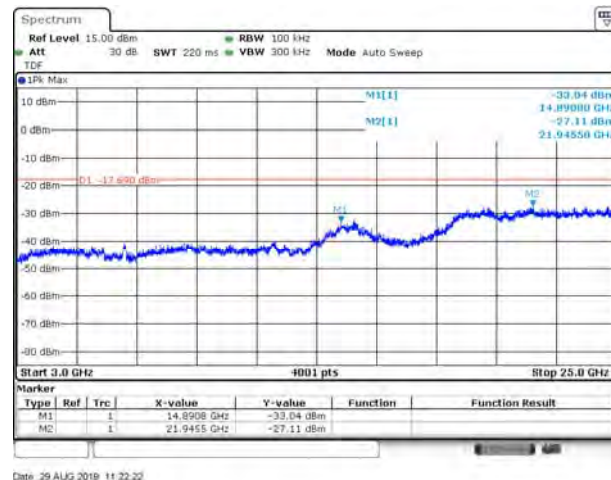
GFSK MIDDLE CHANNEL, CARRIER LEVEL



GFSK MIDDLE CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



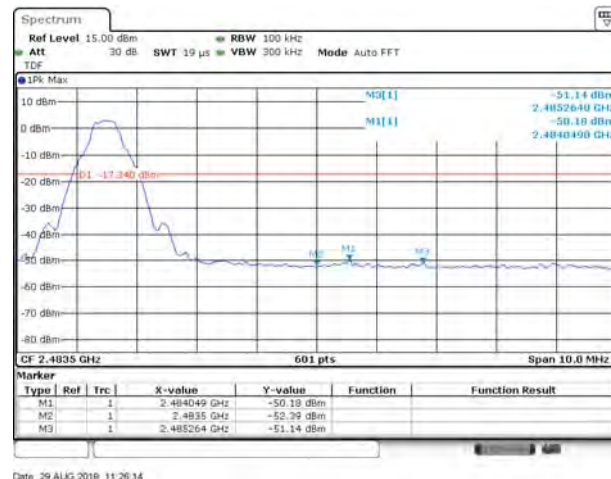
GFSK MIDDLE CHANNEL , SPURIOUS 3 GHz ~ 25 GHz



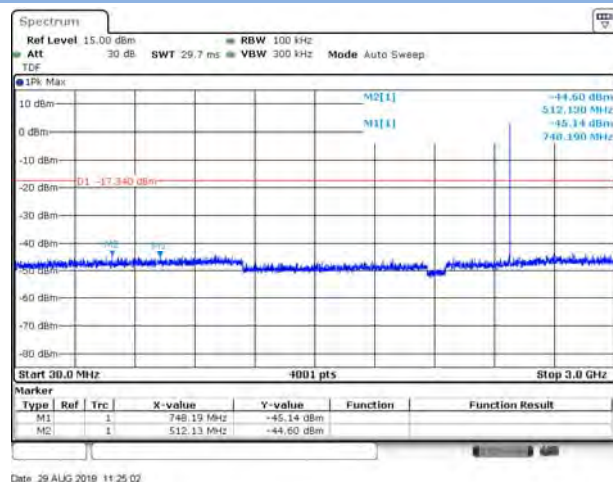
GFSK HIGH CHANNEL , CARRIER LEVEL



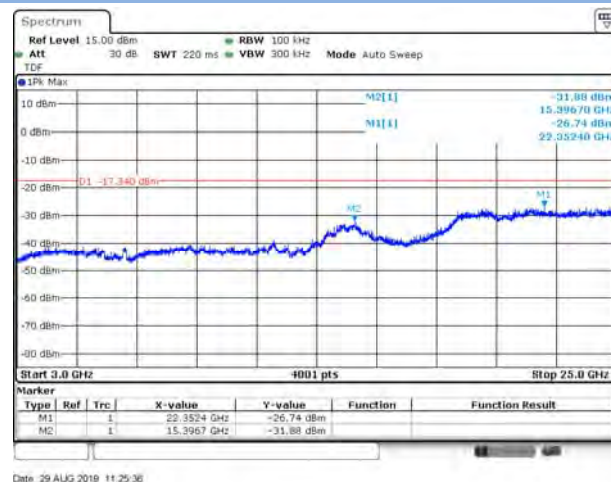
GFSK HIGH CHANNEL , BAND EDGE



GFSK HIGH CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



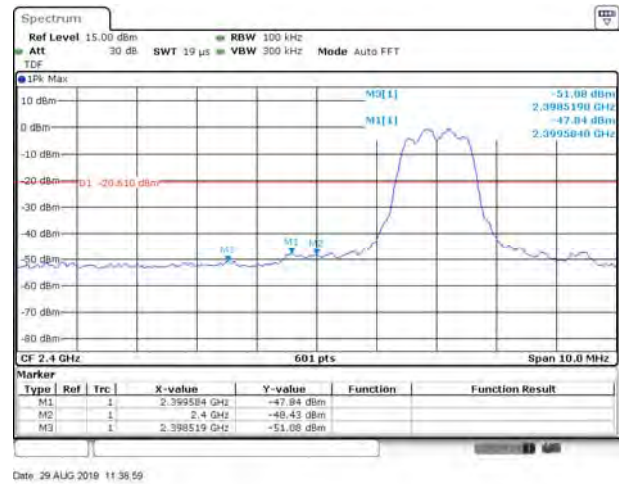
GFSK HIGH CHANNEL , SPURIOUS 3 GHz ~ 25 GHz



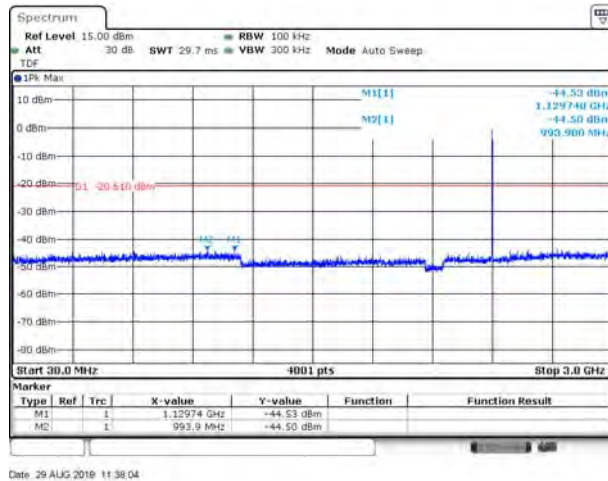
8-DPSK LOW CHANNEL, CARRIER LEVEL



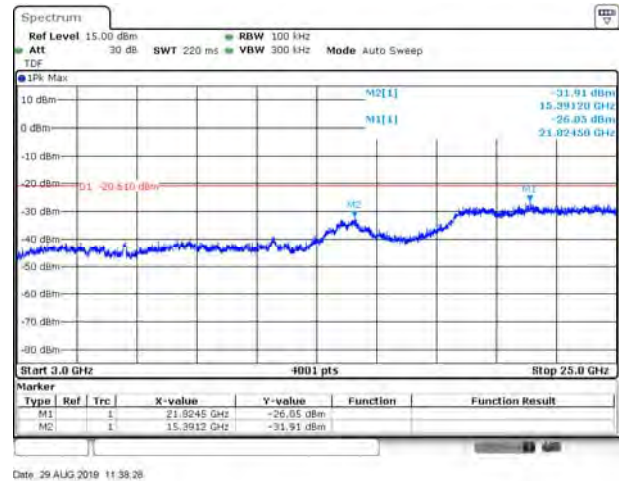
8-DPSK LOW CHANNEL, BAND EDGE



8-DPSK LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



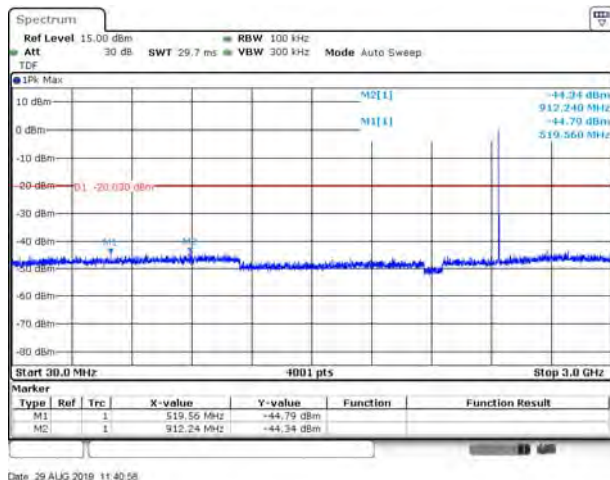
8-DPSK LOW CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



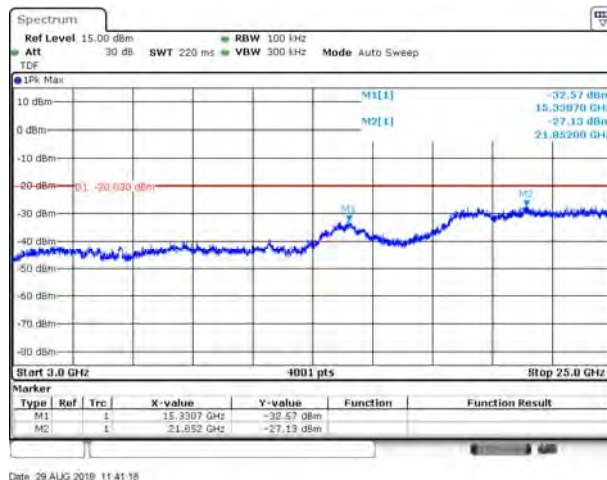
8-DPSK MIDDLE CHANNEL, CARRIER LEVEL



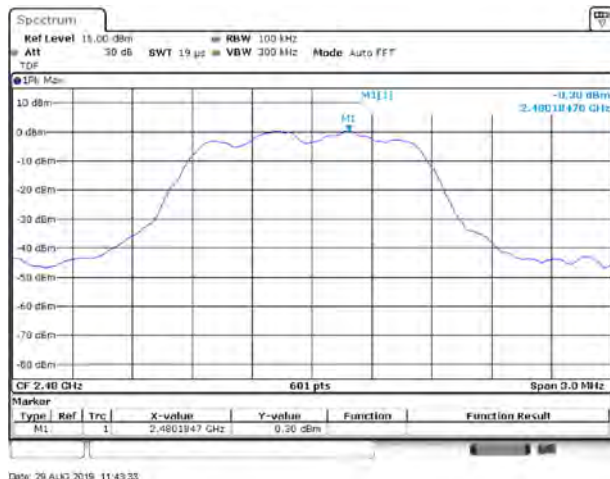
8-DPSK MIDDLE CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



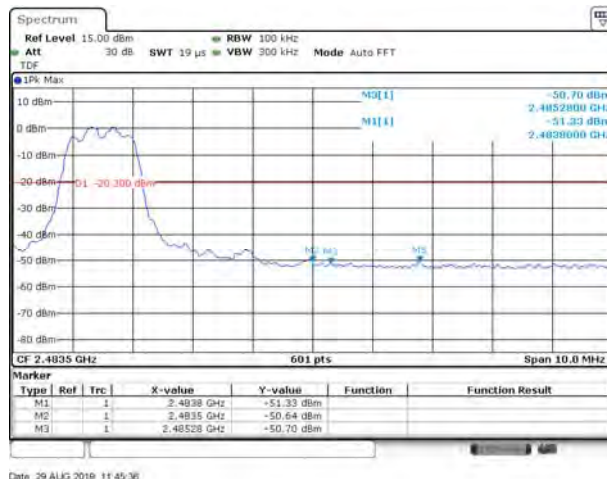
8-DPSK MIDDLE CHANNEL , SPURIOUS 3 GHz ~ 25 GHz



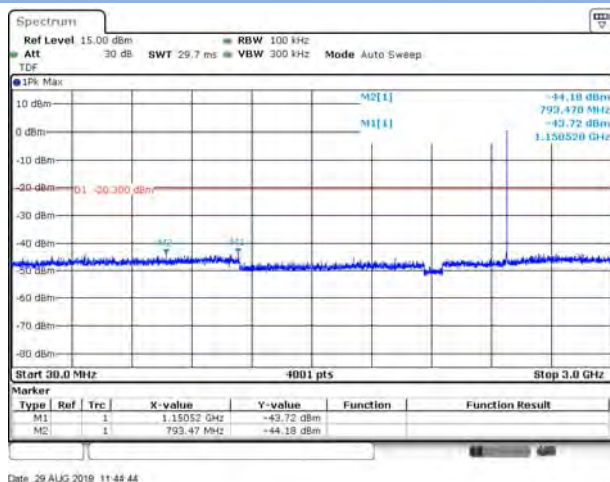
8-DPSK HIGH CHANNEL , CARRIER LEVEL



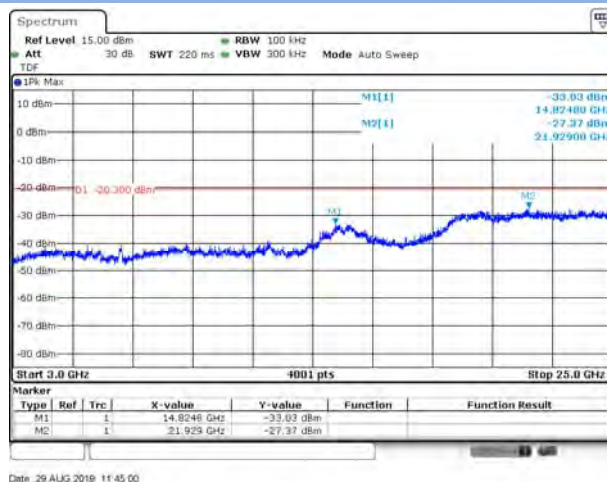
8-DPSK HIGH CHANNEL , BAND EDGE



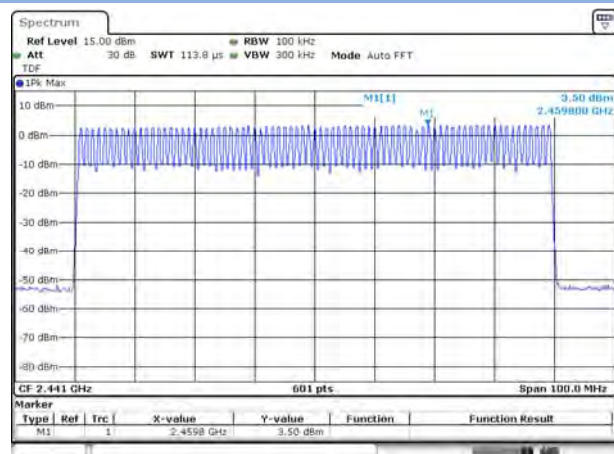
8-DPSK HIGH CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



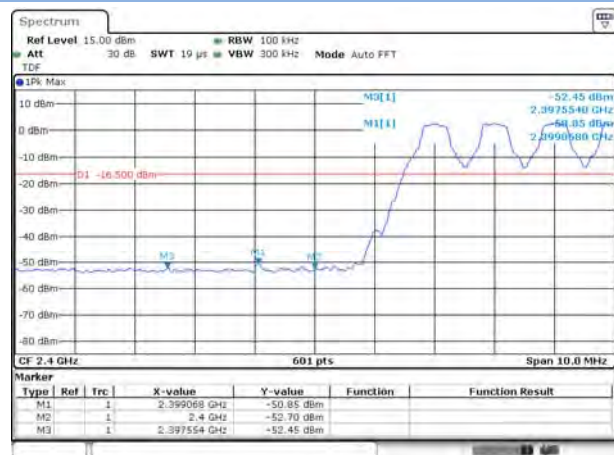
8-DPSK HIGH CHANNEL , SPURIOUS 3 GHz ~ 25 GHz



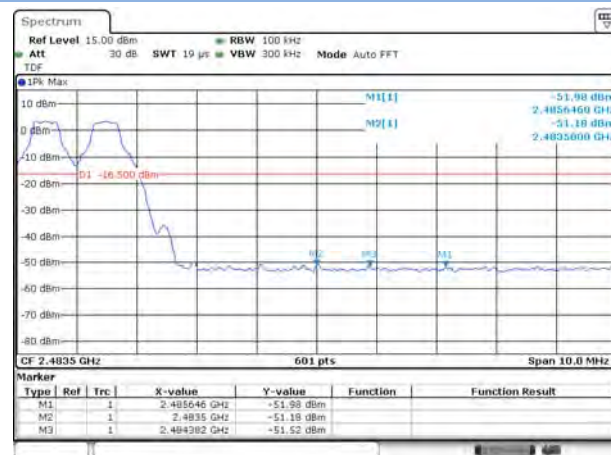
GFSK HOPPING, CARRIER LEVEL



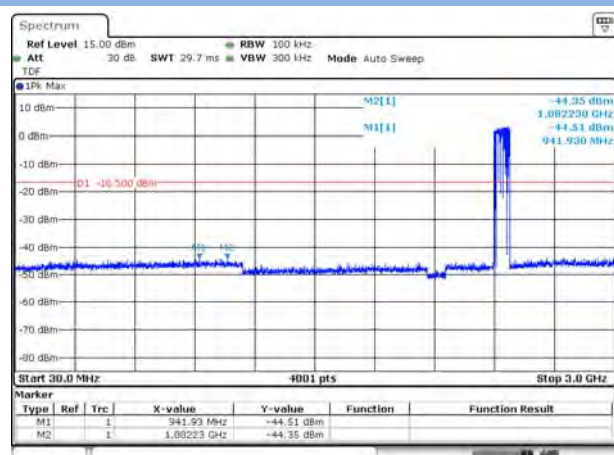
GFSK HOPPING BAND EDGE (LOW)



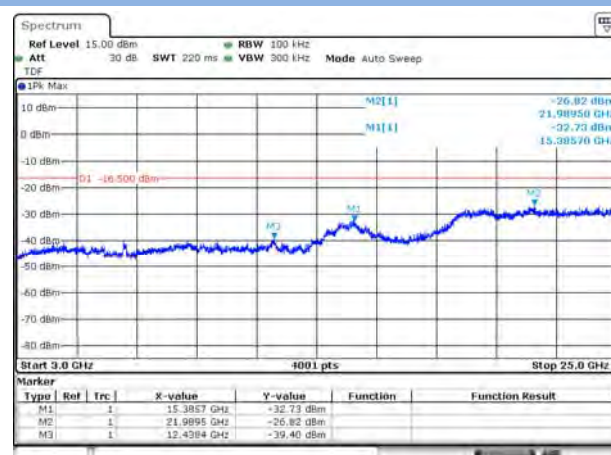
GFSK HOPPING BAND EDGE (HIGH)



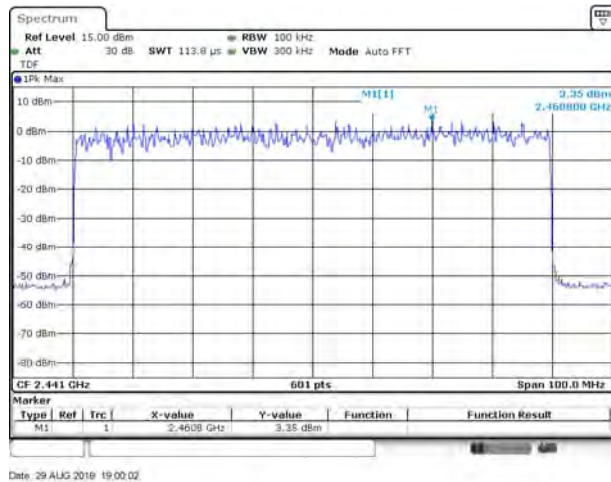
GFSK Hopping Mode, SPURIOUS 30 MHz ~ 3 GHz



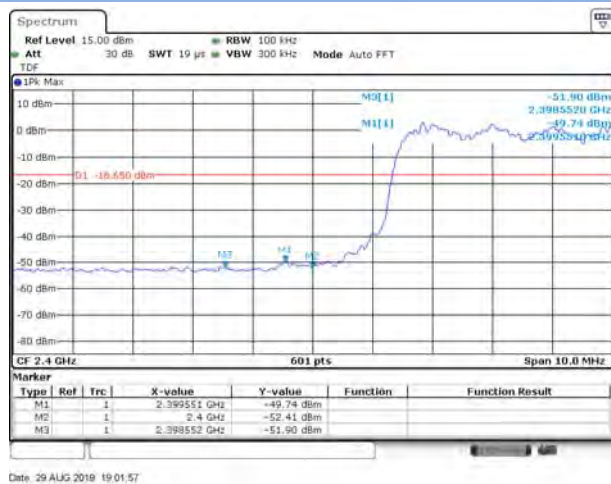
GFSK Hopping Mode, SPURIOUS 30 3GHz ~ 25 GHz



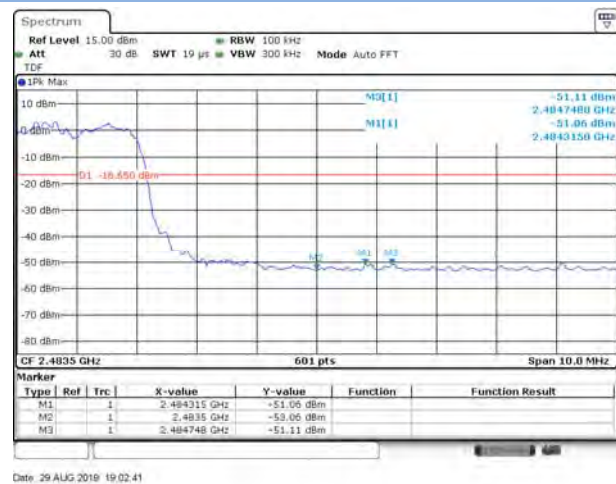
8-DPSK HOPPING, CARRIER LEVEL



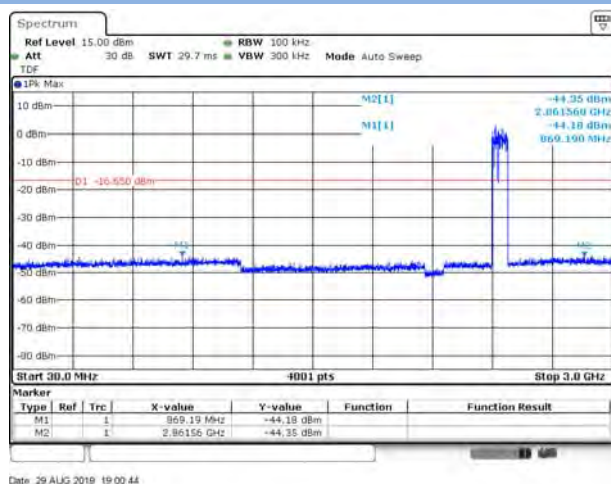
8-DPSK Hopping BAND EDGE (LOW)



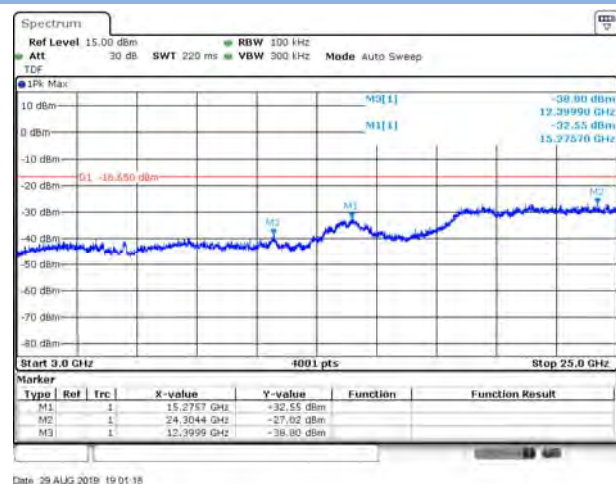
8-DPSK Hopping BAND EDGE (HIGH)



8-DPSK Hopping Mode, SPURIOUS 30 MHz ~ 3 GHz



8-DPSK Hopping Mode, SPURIOUS 30 3GHz ~ 25 GHz



A.7 Conducted Emissions

Note¹: The EUT is working in the Normal link mode.

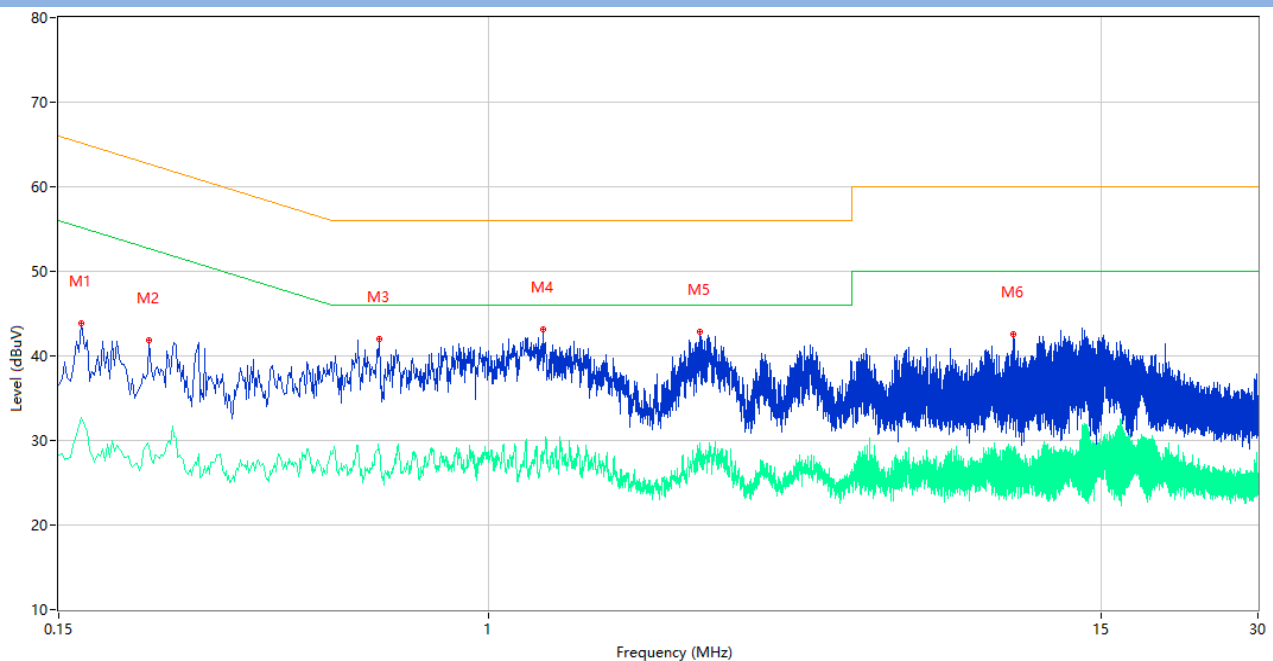
Note²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Note³: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

Test Data and Plots

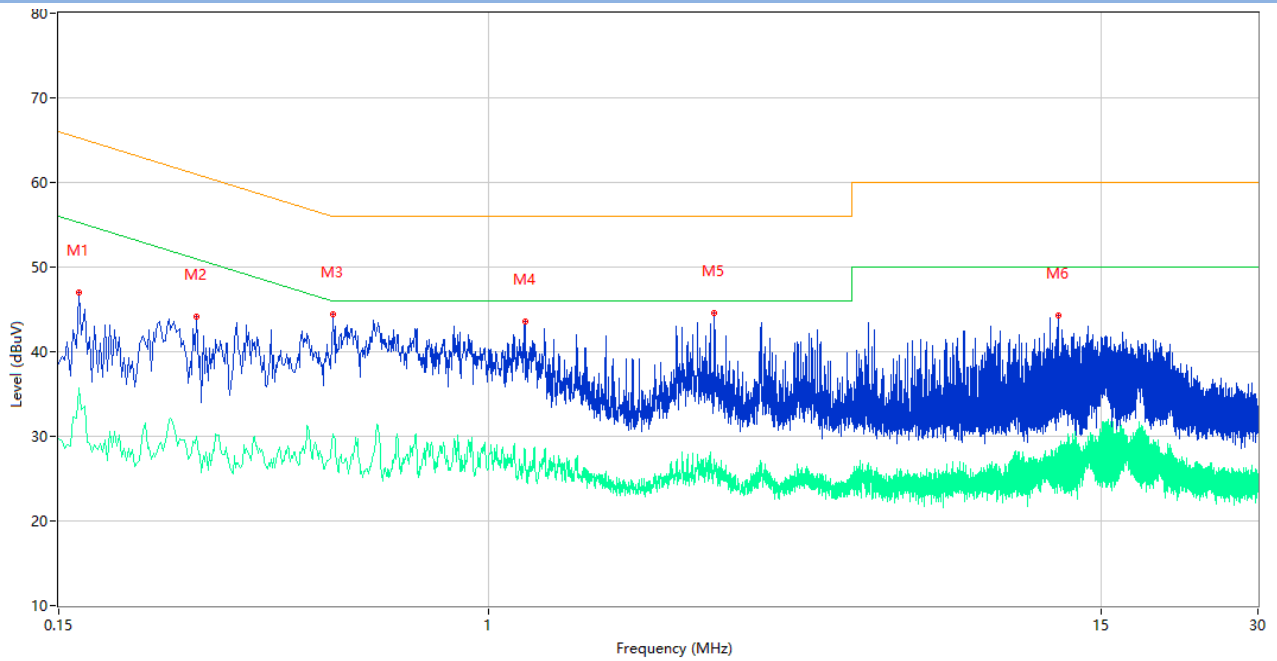
8 inches

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.166	43.86	10.40	65.16	-21.30	Peak	L	Pass
1**	0.166	32.73	10.40	55.16	-22.43	AV	L	Pass
2	0.224	41.80	10.37	62.67	-20.87	Peak	L	Pass
2**	0.224	29.42	10.37	52.67	-23.25	AV	L	Pass
3	0.618	41.93	10.28	56.00	-14.07	Peak	L	Pass
3**	0.618	28.61	10.28	46.00	-17.39	AV	L	Pass
4	1.272	43.16	10.25	56.00	-12.84	Peak	L	Pass
4**	1.272	28.00	10.25	46.00	-18.00	AV	L	Pass
5	2.554	42.85	10.27	56.00	-13.15	Peak	L	Pass
5**	2.554	29.75	10.27	46.00	-16.25	AV	L	Pass
6	10.172	42.51	10.37	60.00	-17.49	Peak	L	Pass
6**	10.172	28.78	10.37	50.00	-21.22	AV	L	Pass

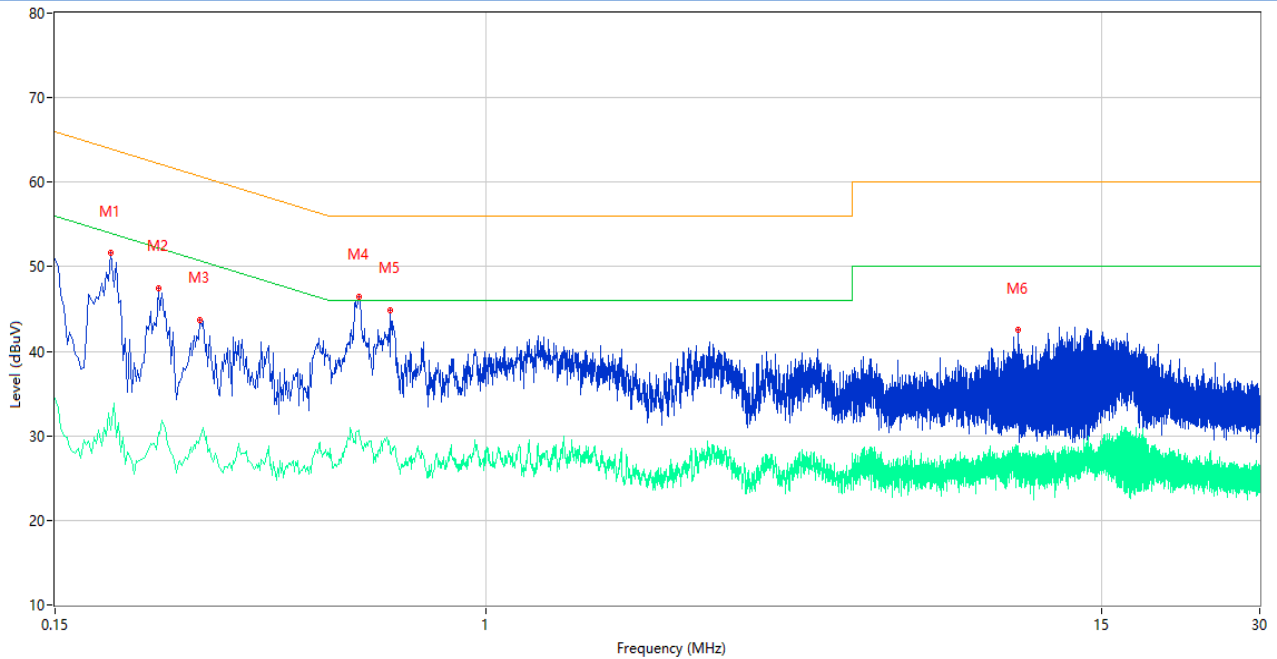
PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.160	42.55	10.40	65.46	-22.91	Peak	N	Pass
1**	0.160	32.31	10.40	55.46	-23.15	AV	N	Pass
2	0.276	44.17	10.34	60.94	-16.77	Peak	N	Pass
2**	0.276	29.98	10.34	50.94	-20.96	AV	N	Pass
3	0.504	44.41	10.30	56.00	-11.59	Peak	N	Pass
3**	0.504	30.24	10.30	46.00	-15.76	AV	N	Pass
4	1.176	43.58	10.24	56.00	-12.42	Peak	N	Pass
4**	1.176	28.42	10.24	46.00	-17.58	AV	N	Pass
5	2.714	44.57	10.28	56.00	-11.43	Peak	N	Pass
5**	2.714	26.91	10.28	46.00	-19.09	AV	N	Pass
6	12.406	44.29	10.39	60.00	-15.71	Peak	N	Pass
6**	12.406	27.81	10.39	50.00	-22.19	AV	N	Pass

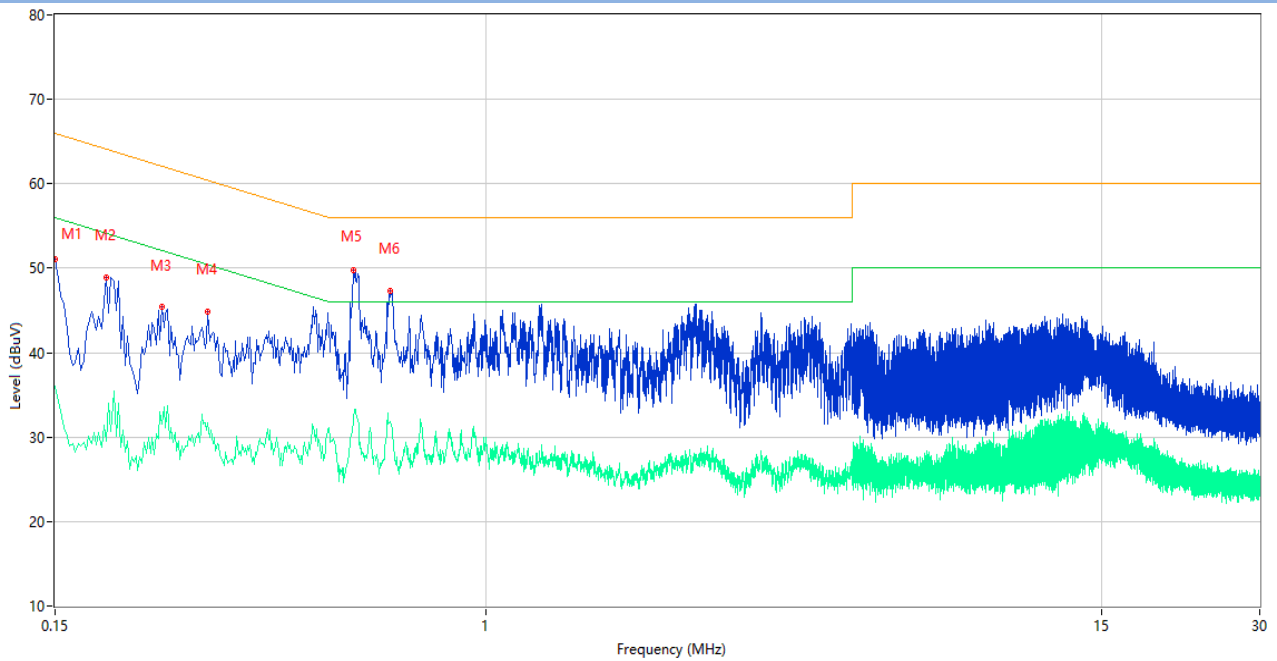
10.1 inches

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.192	51.62	10.38	63.95	-12.33	Peak	L	Pass
1**	0.192	30.73	10.38	53.95	-23.22	AV	L	Pass
2	0.236	47.52	10.35	62.24	-14.72	Peak	L	Pass
2**	0.236	30.35	10.35	52.24	-21.89	AV	L	Pass
3	0.284	43.73	10.34	60.70	-16.97	Peak	L	Pass
3**	0.284	29.65	10.34	50.70	-21.05	AV	L	Pass
4	0.572	46.46	10.27	56.00	-9.54	Peak	L	Pass
4**	0.572	30.40	10.27	46.00	-15.60	AV	L	Pass
5	0.656	44.85	10.27	56.00	-11.15	Peak	L	Pass
5**	0.656	28.00	10.27	46.00	-18.00	AV	L	Pass
6	10.372	42.56	10.37	60.00	-17.44	Peak	L	Pass
6**	10.372	27.69	10.37	50.00	-22.31	AV	L	Pass

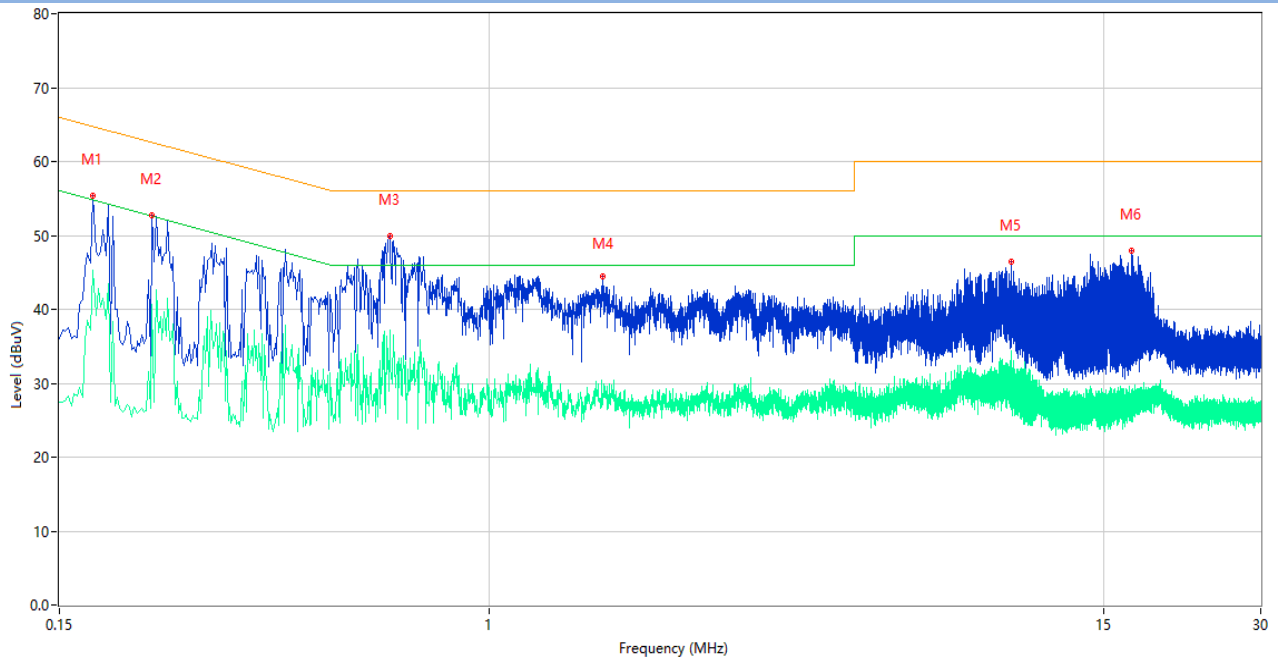
PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.150	51.07	10.41	66.00	-14.93	Peak	N	Pass
1**	0.150	36.10	10.41	56.00	-19.90	AV	N	Pass
2	0.188	48.96	10.38	64.12	-15.16	Peak	N	Pass
2**	0.188	29.58	10.38	54.12	-24.54	AV	N	Pass
3	0.240	45.40	10.35	62.10	-16.70	Peak	N	Pass
3**	0.240	31.59	10.35	52.10	-20.51	AV	N	Pass
4	0.294	44.92	10.33	60.41	-15.49	Peak	N	Pass
4**	0.294	31.77	10.33	50.41	-18.64	AV	N	Pass
5	0.556	49.76	10.28	56.00	-6.24	Peak	N	Pass
5**	0.556	31.64	10.28	46.00	-14.36	AV	N	Pass
6	0.656	47.37	10.27	56.00	-8.63	Peak	N	Pass
6**	0.656	31.89	10.27	46.00	-14.11	AV	N	Pass

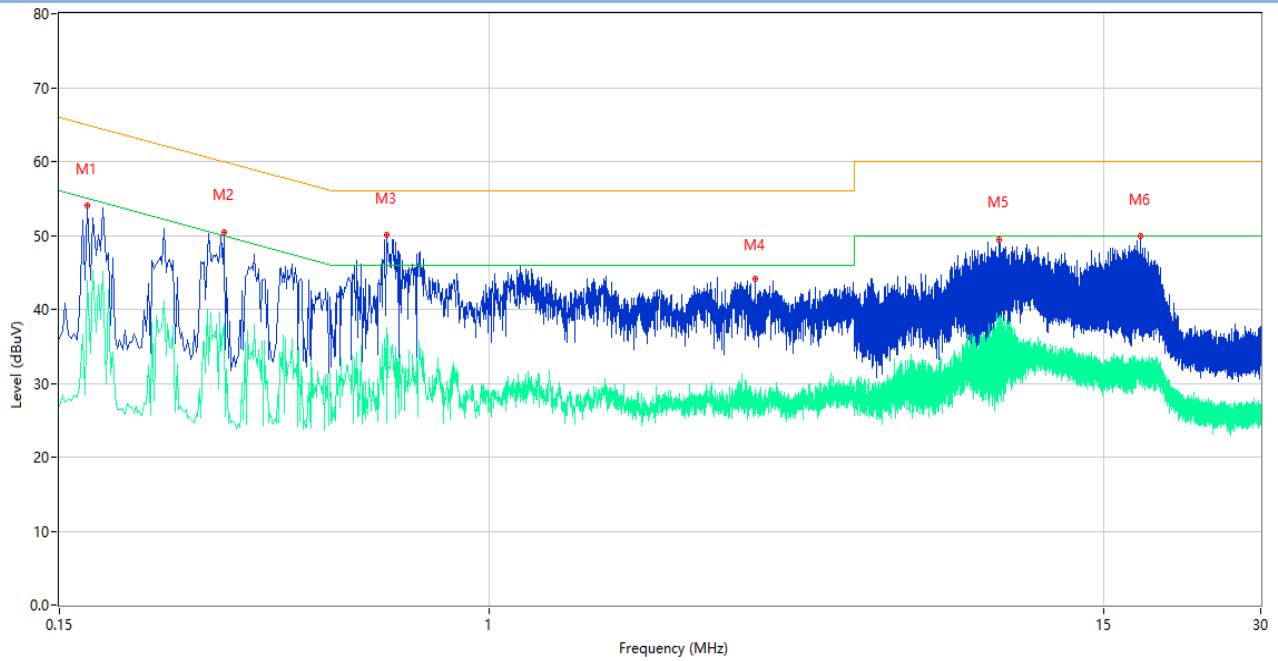
11.5 inches

PHASE L



No.	Frequency (MHz)	Results (dBUV)	Factor (dB)	Limit (dBUV)	Over Limit (dB)	Detector	Line	Verdict
1	0.174	55.39	10.39	64.77	-9.38	Peak	L	Pass
1**	0.174	45.28	10.39	54.77	-9.49	AV	L	Pass
2	0.226	52.69	10.36	62.60	-9.91	Peak	L	Pass
2**	0.226	40.64	10.36	52.60	-11.96	AV	L	Pass
3	0.644	49.90	10.27	56.00	-6.10	Peak	L	Pass
3**	0.644	37.14	10.27	46.00	-8.86	AV	L	Pass
4	1.650	44.52	10.26	56.00	-11.48	Peak	L	Pass
4**	1.650	28.34	10.26	46.00	-17.66	AV	L	Pass
5	9.974	46.46	10.37	60.00	-13.54	Peak	L	Pass
5**	9.974	34.42	10.37	50.00	-15.58	AV	L	Pass
6	16.998	48.01	10.46	60.00	-11.99	Peak	L	Pass
6**	16.998	28.13	10.46	50.00	-21.87	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.170	54.05	10.40	64.96	-10.91	Peak	N	Pass
1**	0.170	43.99	10.40	54.96	-10.97	AV	N	Pass
2	0.310	50.47	10.33	59.97	-9.50	Peak	N	Pass
2**	0.310	37.98	10.33	49.97	-11.99	AV	N	Pass
3	0.634	50.07	10.27	56.00	-5.93	Peak	N	Pass
3**	0.634	37.56	10.27	46.00	-8.44	AV	N	Pass
4	3.224	44.09	10.30	56.00	-11.91	Peak	N	Pass
4**	3.224	29.08	10.30	46.00	-16.92	AV	N	Pass
5	9.444	49.47	10.36	60.00	-10.53	Peak	N	Pass
5**	9.444	36.06	10.36	50.00	-13.94	AV	N	Pass
6	17.640	49.84	10.48	60.00	-10.16	Peak	N	Pass
6**	17.640	32.73	10.48	50.00	-17.27	AV	N	Pass

A.8 Radiated Spurious Emission

Test Data and Plots

Note¹: The symbol of "--" in the table which means not application.

Note²: For the test data above 1 GHz, according the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

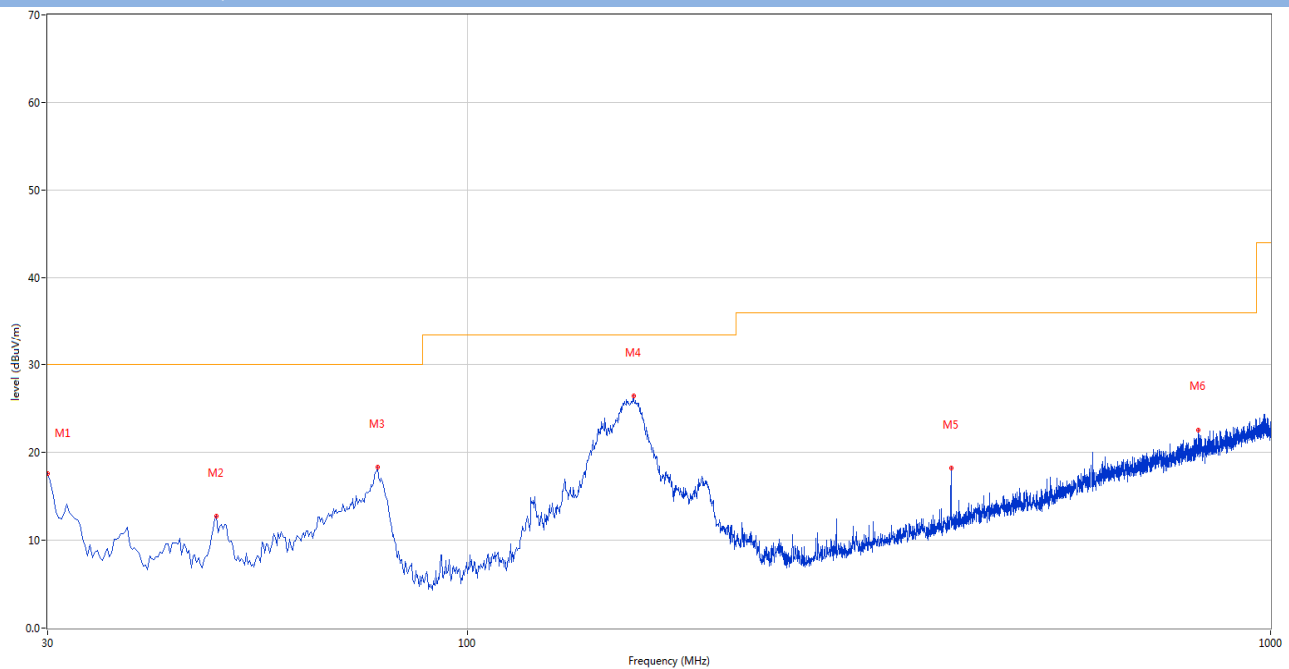
Note³: The EUT is working in the Normal link mode below 1 GHz.

Note⁴: Results (dBuV/m) = Original reading level of Spectrum Analyzer (dBuV/m) + Factor (dB)

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

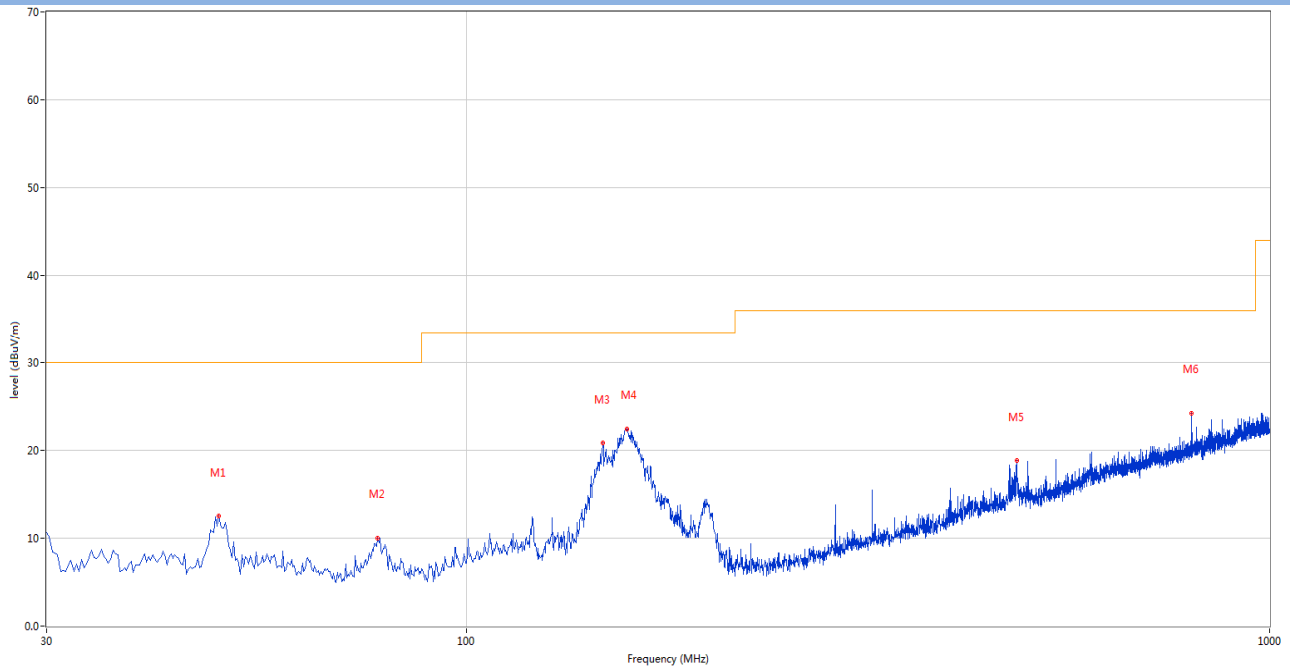
8 inches

30 MHz to 1 GHz, ANT V



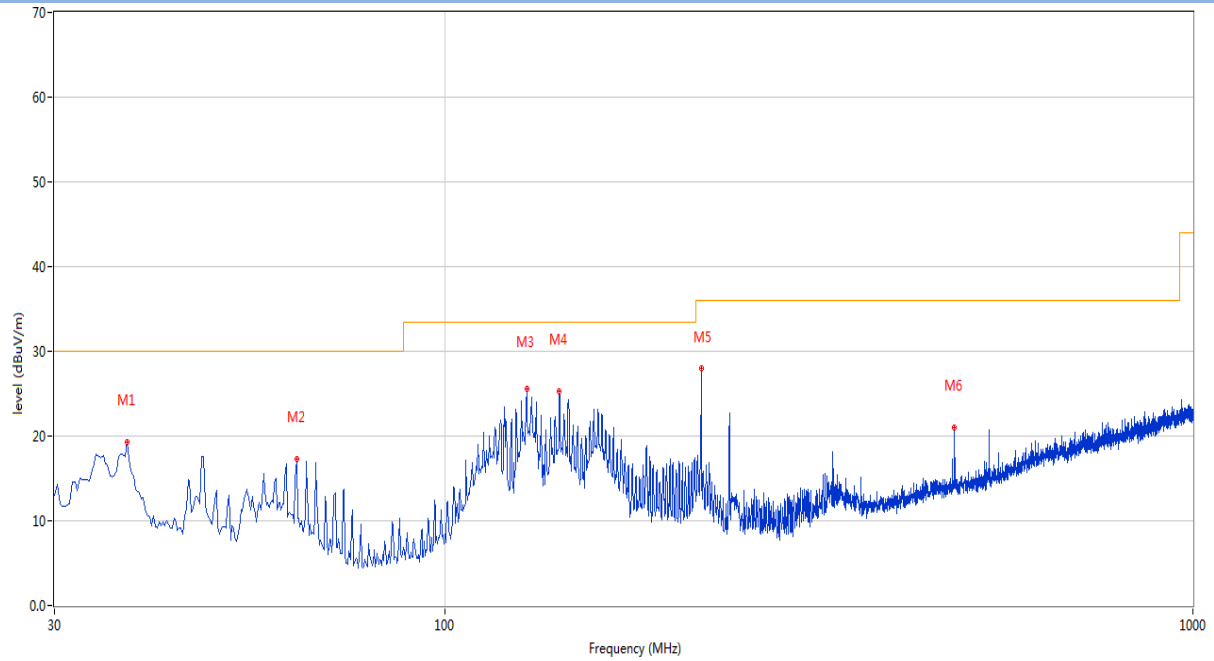
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	30.000	17.57	-27.47	30.0	-12.43	Peak	29.00	100	Vertical	Pass
2	48.668	12.73	-27.27	30.0	-17.27	Peak	186.00	100	Vertical	Pass
3	77.276	18.31	-30.85	30.0	-11.69	Peak	117.00	200	Vertical	Pass
4	160.917	26.41	-25.86	33.5	-7.09	Peak	319.00	100	Vertical	Pass
5	399.963	18.18	-23.17	36.0	-17.82	Peak	230.00	100	Vertical	Pass
6	812.594	22.58	-13.80	36.0	-13.42	Peak	205.00	200	Vertical	Pass

30 MHz to 1 GHz, ANT H



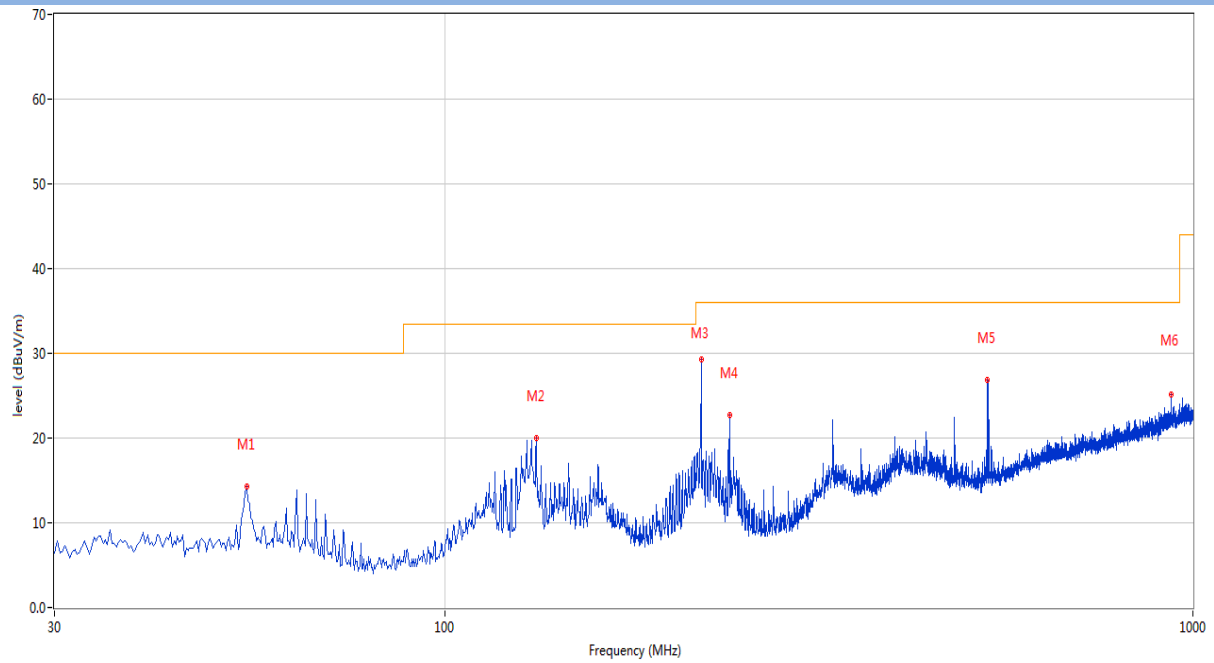
10.1 inches

30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	37.516	19.25	-27.07	30.0	-10.75	Peak	0.00	100	Vertical	Pass
2	63.214	17.33	-28.47	30.0	-12.67	Peak	167.00	300	Vertical	Pass
3	128.430	25.64	-27.35	33.5	-7.86	Peak	325.00	100	Vertical	Pass
4	142.007	25.25	-26.38	33.5	-8.25	Peak	293.00	100	Vertical	Pass
5	219.830	28.04	-28.77	36.0	-7.96	Peak	0.00	100	Vertical	Pass
6	479.968	20.99	-21.01	36.0	-15.01	Peak	0.00	300	Vertical	Pass

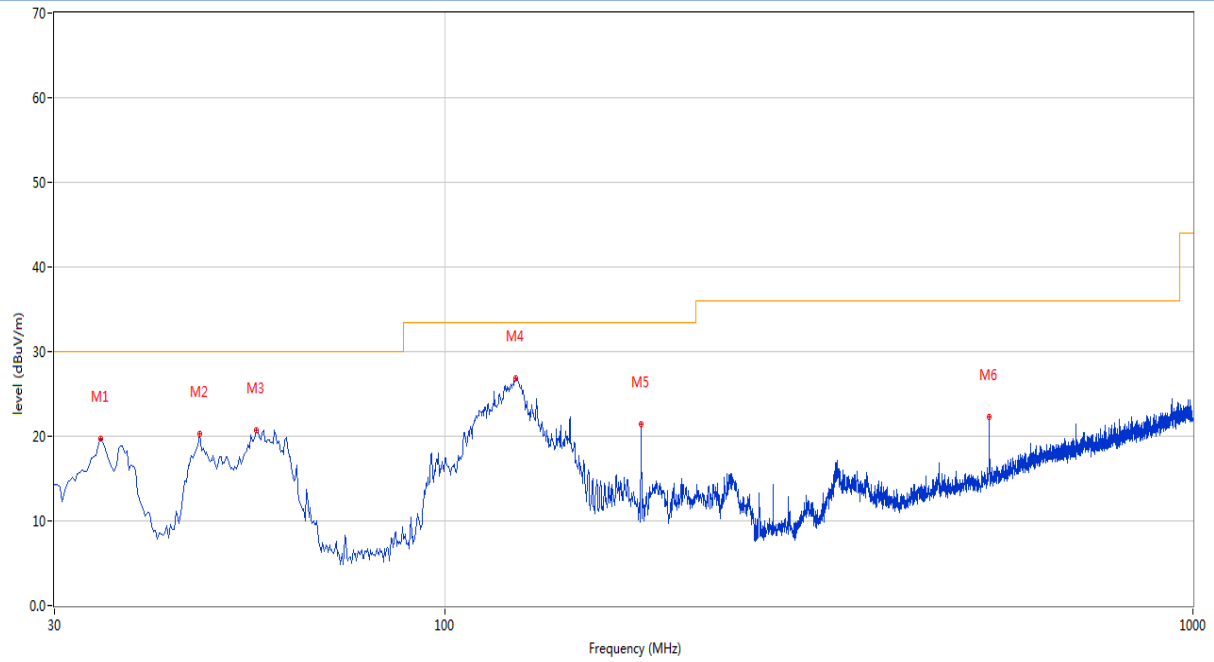
30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	54.244	14.32	-27.59	30.0	-15.68	Peak	0.00	300	Horizontal	Pass
2	132.309	19.98	-27.10	33.5	-13.52	Peak	319.00	400	Horizontal	Pass
3	219.830	29.26	-28.77	36.0	-6.74	Peak	111.00	400	Horizontal	Pass
4	239.953	22.71	-27.87	36.0	-13.29	Peak	111.00	300	Horizontal	Pass
5	531.365	26.88	-19.77	36.0	-9.12	Peak	22.00	100	Horizontal	Pass
6	935.996	25.19	-11.71	36.0	-10.81	Peak	360.00	200	Horizontal	Pass

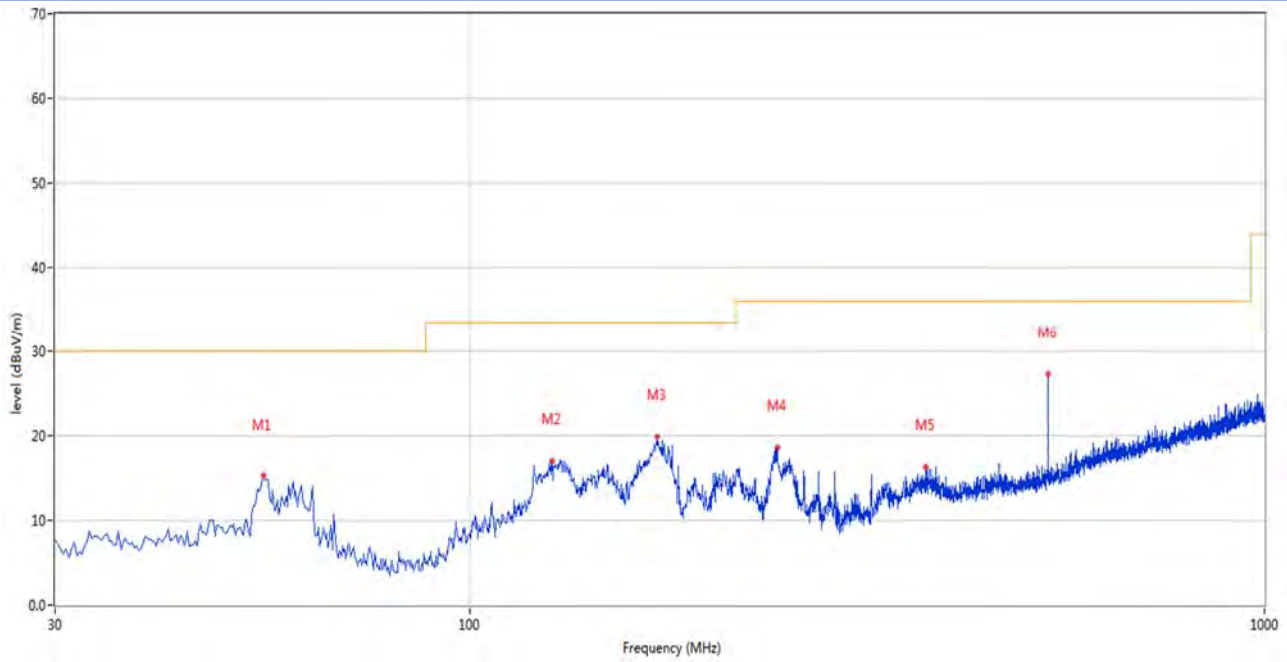
11.5 inches

30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	34.606	19.68	-27.37	30.0	-10.32	Peak	205.00	100	Vertical	Pass
2	46.971	20.22	-27.04	30.0	-9.78	Peak	312.00	400	Vertical	Pass
3	55.941	20.76	-27.51	30.0	-9.24	Peak	224.00	300	Vertical	Pass
4	124.309	26.85	-27.74	33.5	-6.65	Peak	293.00	100	Vertical	Pass
5	182.979	21.38	-28.27	33.5	-12.12	Peak	300.00	100	Vertical	Pass
6	533.789	22.32	-19.73	36.0	-13.68	Peak	0.00	400	Vertical	Pass

30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	54.971	15.25	-27.51	30.0	-14.75	Peak	355.00	400	Horizontal	Pass
2	126.733	16.97	-27.43	33.5	-16.53	Peak	325.00	400	Horizontal	Pass
3	172.069	19.87	-26.98	33.5	-13.63	Peak	359.00	300	Horizontal	Pass
4	243.347	18.52	-27.62	36.0	-17.48	Peak	199.00	300	Horizontal	Pass
5	374.506	16.28	-23.85	36.0	-19.72	Peak	360.00	300	Horizontal	Pass
6	534.031	27.24	-19.76	36.0	-8.76	Peak	360.00	300	Horizontal	Pass

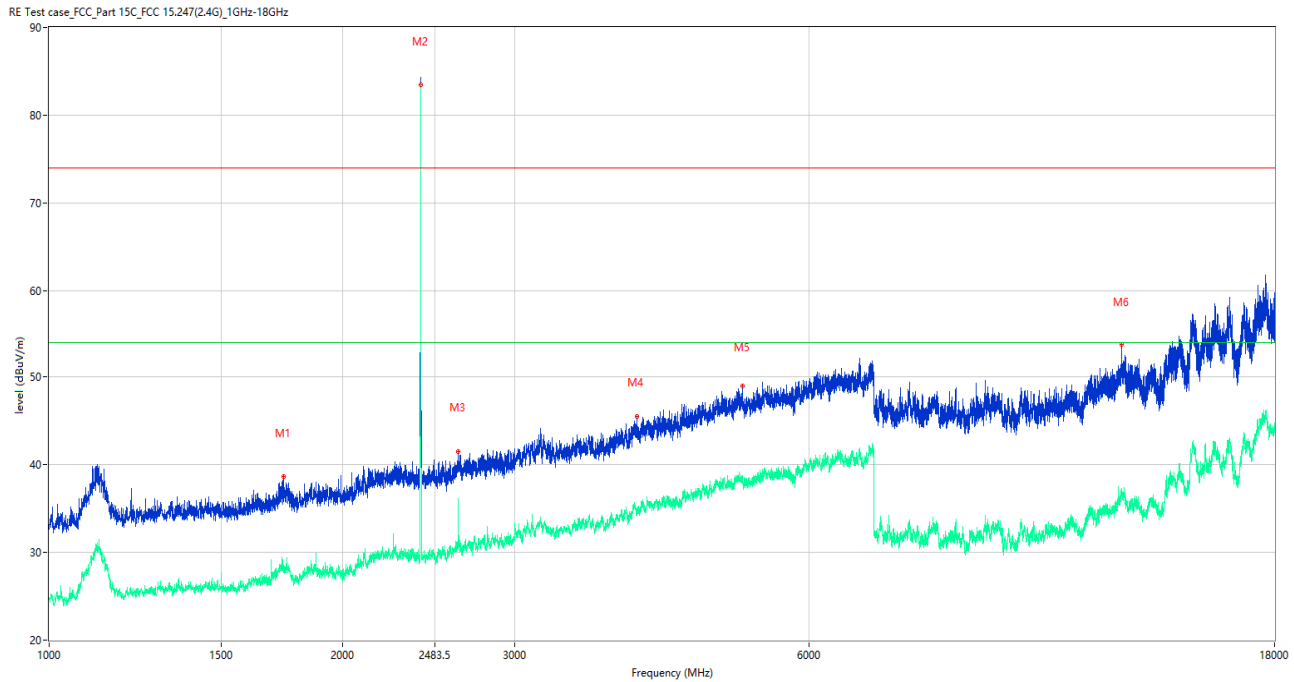
Test Data and Plots (1 GHz ~ 10th Harmonic)

Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note 2: The spurious from 18GHz-25GHz is noise only, do not show on the report.

8 inches

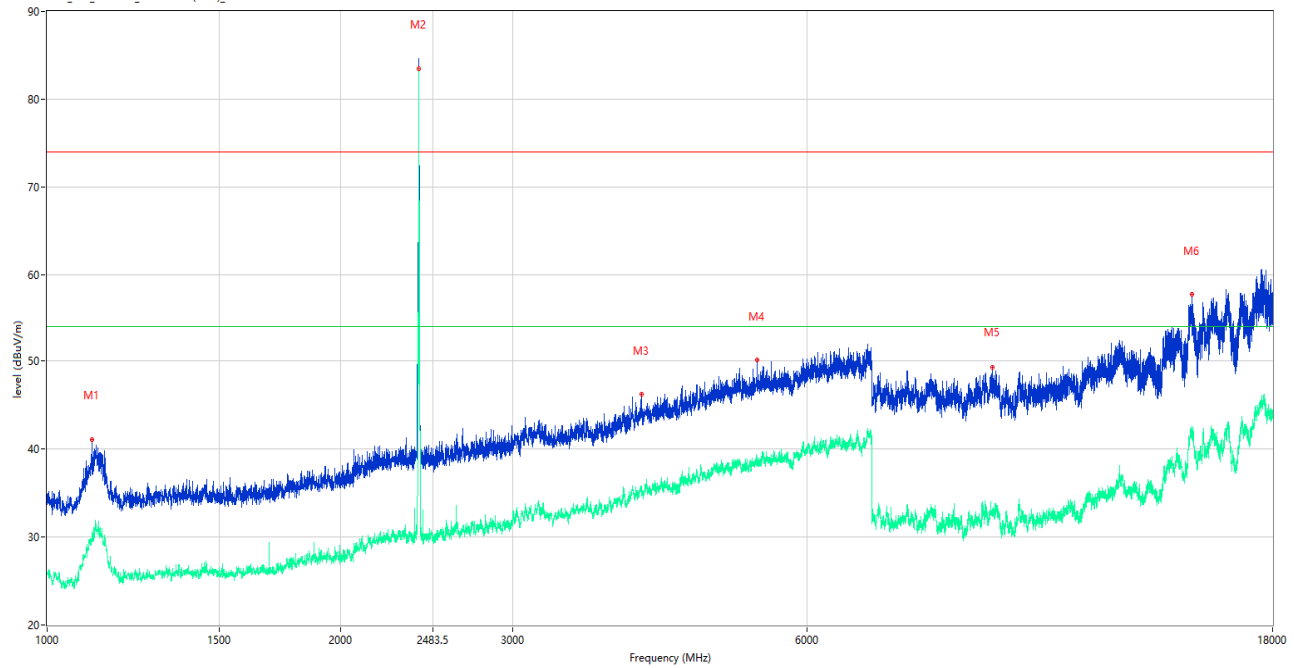
GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1738.000	28.45	-15.03	54.0	-25.55	AV	36.00	150	Vertical	Pass
1	1738.000	38.63	-15.03	74.0	-35.37	Peak	36.00	150	Vertical	Pass
2**	2402.500	83.49	-10.66	54.0	29.49	AV	11.00	150	Vertical	N/A
2	2402.500	83.97	-10.66	74.0	9.97	Peak	11.00	150	Vertical	N/A
3**	2625.000	33.32	-8.68	54.0	-20.68	AV	360.00	150	Vertical	Pass
3	2625.000	41.55	-8.68	74.0	-32.45	Peak	360.00	150	Vertical	Pass
4**	4003.000	34.59	-3.84	54.0	-19.41	AV	360.00	150	Vertical	Pass
4	4003.000	45.48	-3.84	74.0	-28.52	Peak	360.00	150	Vertical	Pass
5**	5130.000	38.72	-0.54	54.0	-15.28	AV	179.00	150	Vertical	Pass
5	5130.000	49.04	-0.54	74.0	-24.96	Peak	179.00	150	Vertical	Pass
6**	12550.187	36.78	21.77	54.0	-17.22	AV	250.00	150	Vertical	Pass
6	12550.187	53.71	21.77	74.0	-20.29	Peak	250.00	150	Vertical	Pass

GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT H

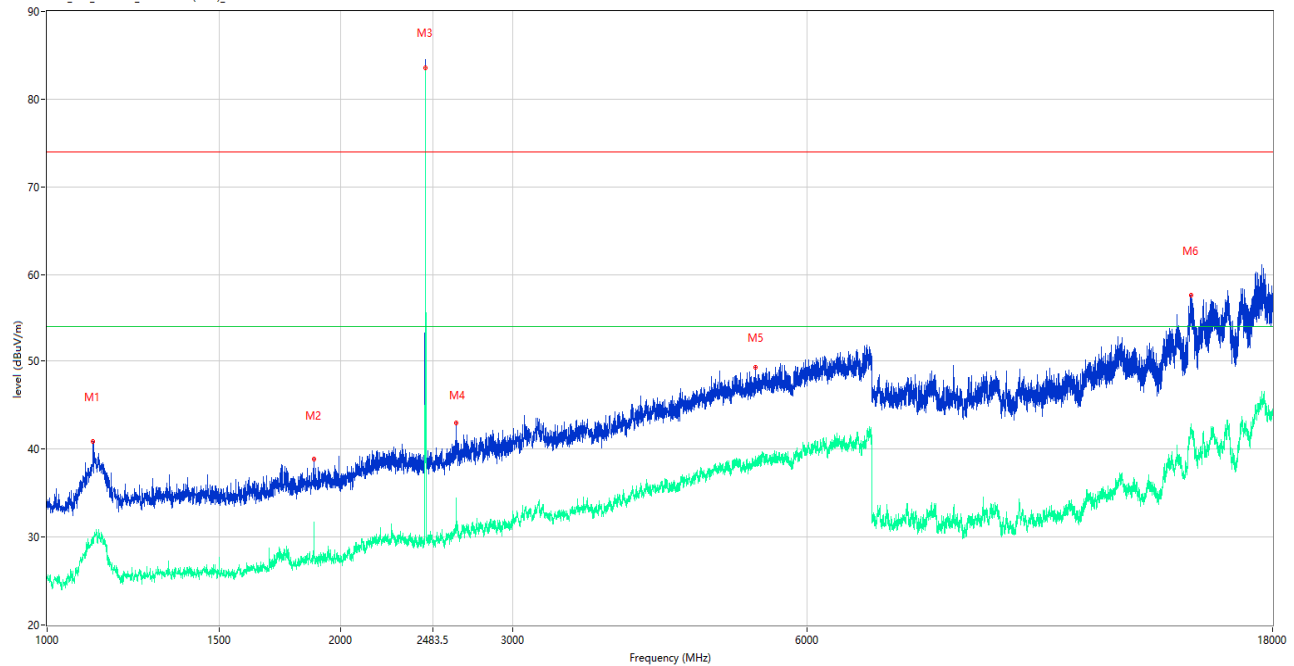
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1112.500	30.62	-15.39	54.0	-23.38	AV	233.00	150	Horizontal	Pass
1	1112.500	41.10	-15.39	74.0	-32.90	Peak	233.00	150	Horizontal	Pass
2**	2402.500	83.50	-10.66	54.0	29.50	AV	272.00	150	Horizontal	N/A
2	2402.500	84.29	-10.66	74.0	10.29	Peak	272.00	150	Horizontal	N/A
3**	4060.000	35.82	-4.07	54.0	-18.18	AV	0.00	150	Horizontal	Pass
3	4060.000	46.22	-4.07	74.0	-27.78	Peak	0.00	150	Horizontal	Pass
4**	5340.000	38.10	-0.58	54.0	-15.90	AV	309.00	150	Horizontal	Pass
4	5340.000	50.17	-0.58	74.0	-23.83	Peak	309.00	150	Horizontal	Pass
5**	9300.000	33.06	17.56	54.0	-20.94	AV	335.00	150	Horizontal	Pass
5	9300.000	49.28	17.56	74.0	-24.72	Peak	335.00	150	Horizontal	Pass
6**	14874.937	41.61	26.65	54.0	-12.39	AV	249.00	150	Horizontal	Pass
6	14874.937	57.71	26.65	74.0	-16.29	Peak	249.00	150	Horizontal	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

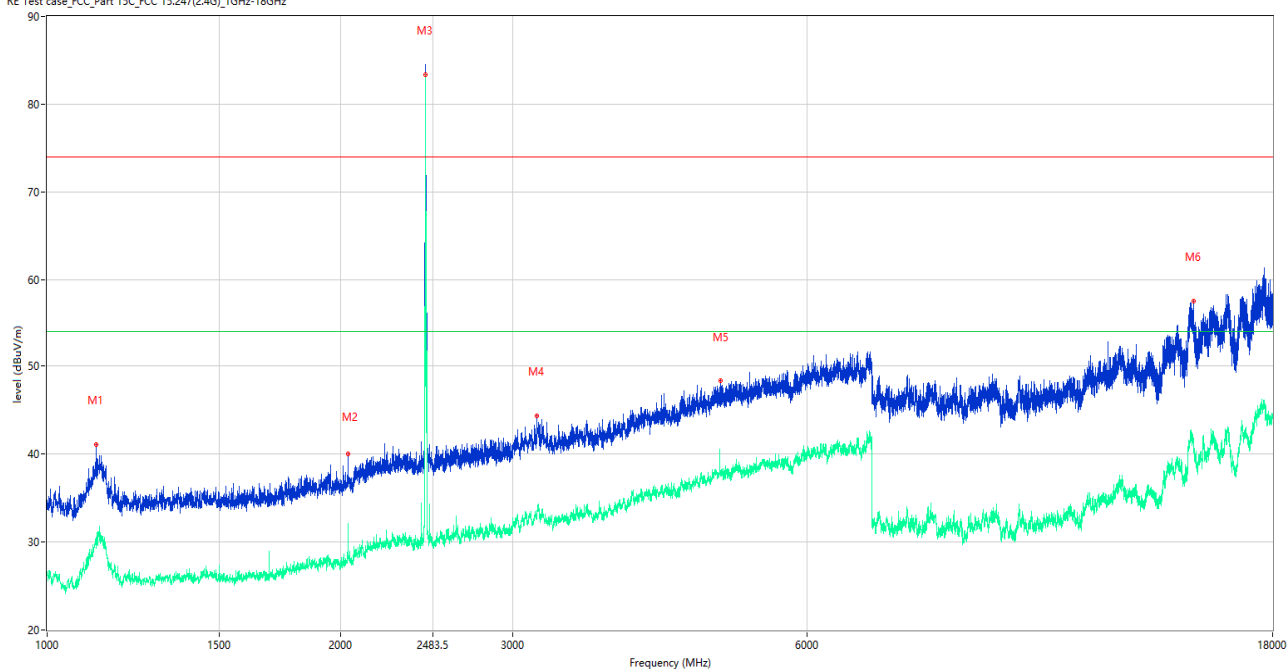
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1114.500	29.85	-15.42	54.0	-24.15	AV	219.00	150	Vertical	Pass
1	1114.500	40.91	-15.42	74.0	-33.09	Peak	219.00	150	Vertical	Pass
2**	1875.000	28.71	-13.98	54.0	-25.29	AV	280.00	150	Vertical	Pass
2	1875.000	38.86	-13.98	74.0	-35.14	Peak	280.00	150	Vertical	Pass
3**	2441.500	83.57	-10.74	54.0	29.57	AV	210.00	150	Vertical	N/A
3	2441.500	84.09	-10.74	74.0	10.09	Peak	210.00	150	Vertical	N/A
4**	2625.000	32.10	-8.68	54.0	-21.90	AV	346.00	150	Vertical	Pass
4	2625.000	42.93	-8.68	74.0	-31.07	Peak	346.00	150	Vertical	Pass
5**	5315.000	39.18	-0.06	54.0	-14.82	AV	187.00	150	Vertical	Pass
5	5315.000	49.28	-0.06	74.0	-24.72	Peak	187.00	150	Vertical	Pass
6**	14857.875	42.23	27.11	54.0	-11.77	AV	254.00	150	Vertical	Pass
6	14857.875	57.66	27.11	74.0	-16.34	Peak	254.00	150	Vertical	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

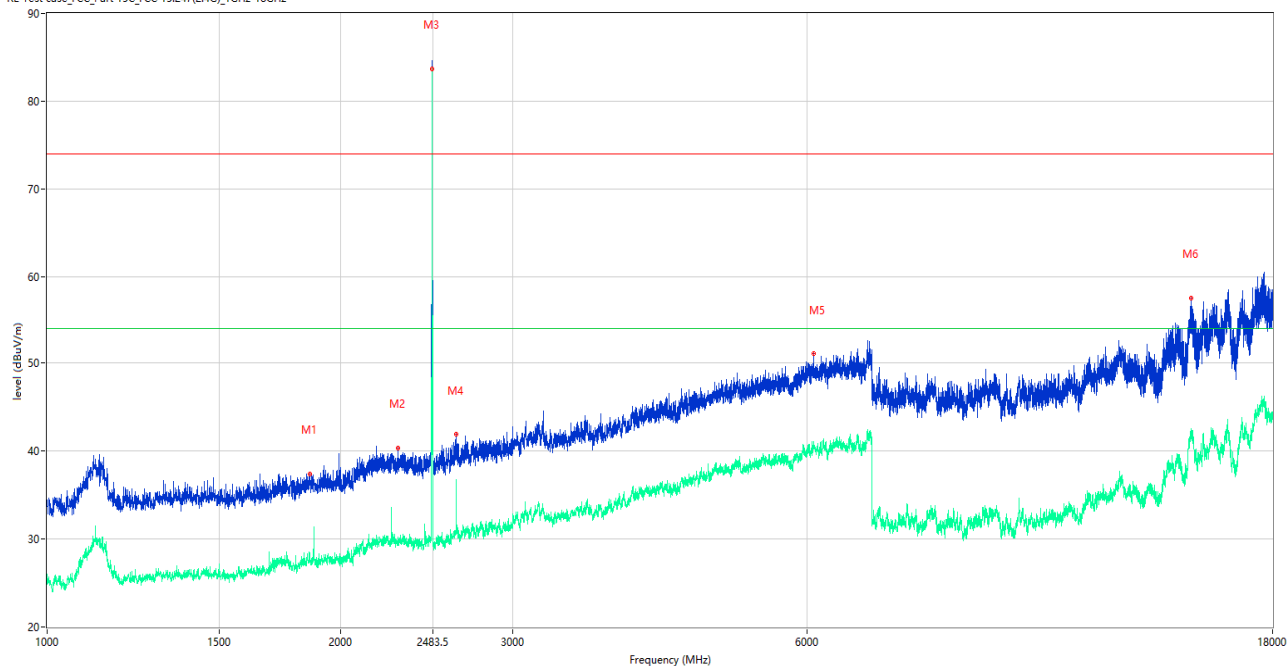
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1123.000	29.44	-15.31	54.0	-24.56	AV	251.00	150	Horizontal	Pass
1	1123.000	41.10	-15.31	74.0	-32.90	Peak	251.00	150	Horizontal	Pass
2**	2033.000	30.48	-12.96	54.0	-23.52	AV	152.00	150	Horizontal	Pass
2	2033.000	40.08	-12.96	74.0	-33.92	Peak	152.00	150	Horizontal	Pass
3**	2441.500	83.37	-10.74	54.0	29.37	AV	289.00	150	Horizontal	N/A
3	2441.500	84.01	-10.74	74.0	10.01	Peak	289.00	150	Horizontal	N/A
4**	3175.000	33.53	-6.08	54.0	-20.47	AV	239.00	150	Horizontal	Pass
4	3175.000	44.36	-6.08	74.0	-29.64	Peak	239.00	150	Horizontal	Pass
5**	4897.000	37.50	-1.32	54.0	-16.50	AV	229.00	150	Horizontal	Pass
5	4897.000	48.39	-1.32	74.0	-25.61	Peak	229.00	150	Horizontal	Pass
6**	14928.750	41.56	27.15	54.0	-12.44	AV	322.00	150	Horizontal	Pass
6	14928.750	57.55	27.15	74.0	-16.45	Peak	322.00	150	Horizontal	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT V

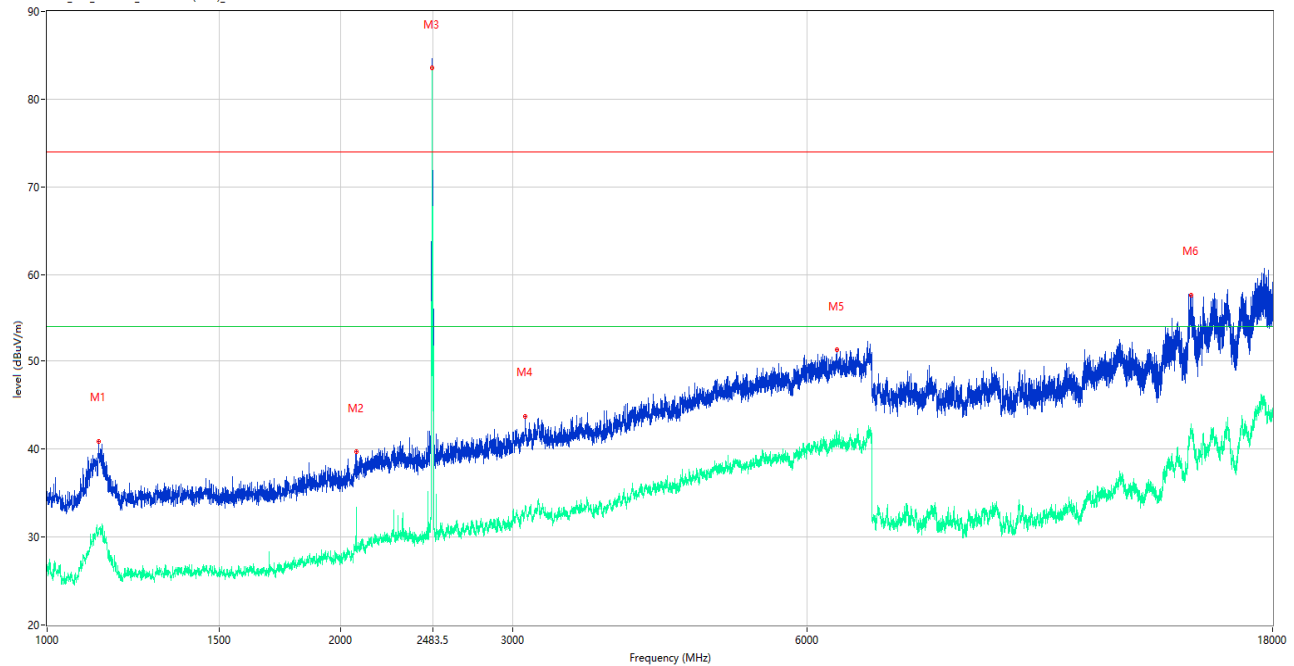
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1857.000	27.79	-13.78	54.0	-26.21	AV	347.00	150	Vertical	Pass
1	1857.000	37.43	-13.78	74.0	-36.57	Peak	347.00	150	Vertical	Pass
2**	2288.500	30.21	-10.24	54.0	-23.79	AV	209.00	150	Vertical	Pass
2	2288.500	40.38	-10.24	74.0	-33.62	Peak	209.00	150	Vertical	Pass
3**	2480.500	83.67	-10.38	54.0	29.67	AV	131.00	150	Vertical	N/A
3	2480.500	84.17	-10.38	74.0	10.17	Peak	131.00	150	Vertical	N/A
4**	2625.000	33.21	-8.68	54.0	-20.79	AV	0.00	150	Vertical	Pass
4	2625.000	41.88	-8.68	74.0	-32.12	Peak	0.00	150	Vertical	Pass
5**	6101.000	40.38	2.58	54.0	-13.62	AV	103.00	150	Vertical	Pass
5	6101.000	51.14	2.58	74.0	-22.86	Peak	103.00	150	Vertical	Pass
6**	14861.813	42.05	27.09	54.0	-11.95	AV	338.00	150	Vertical	Pass
6	14861.813	57.54	27.09	74.0	-16.46	Peak	338.00	150	Vertical	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT H

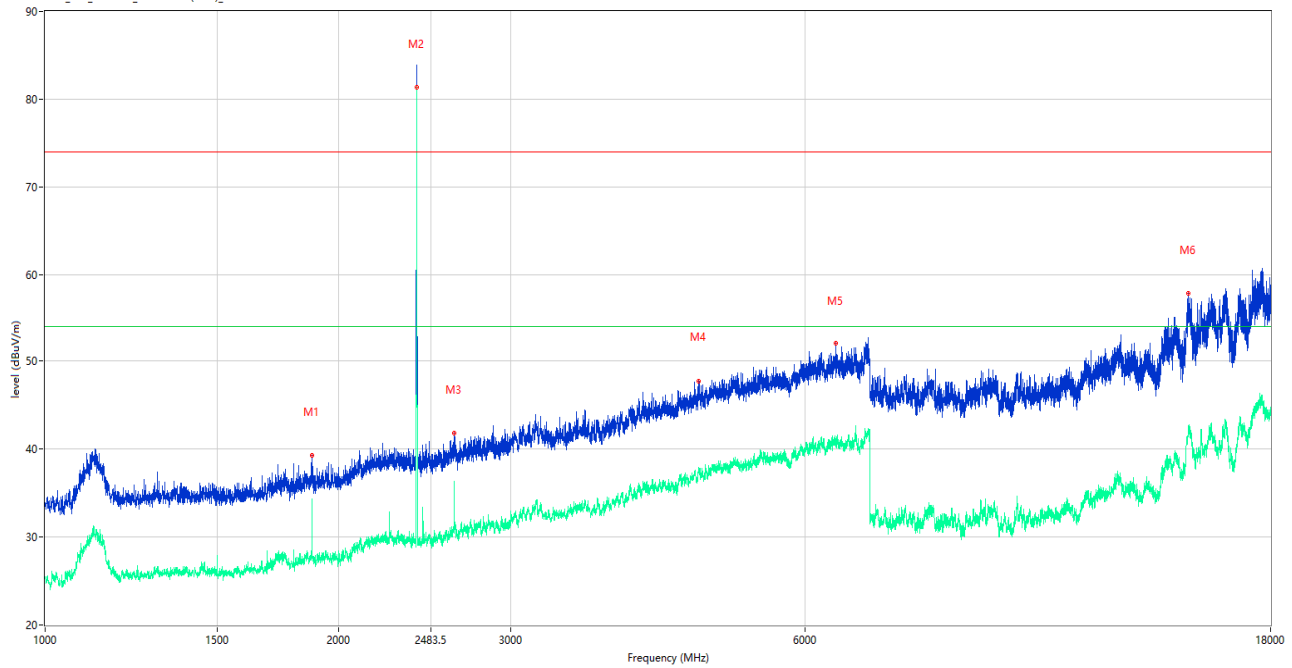
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1129.000	30.30	-15.20	54.0	-23.70	AV	246.00	150	Horizontal	Pass
1	1129.000	40.91	-15.20	74.0	-33.09	Peak	246.00	150	Horizontal	Pass
2**	2072.000	31.10	-12.17	54.0	-22.90	AV	144.00	150	Horizontal	Pass
2	2072.000	39.71	-12.17	74.0	-34.29	Peak	144.00	150	Horizontal	Pass
3**	2480.500	83.58	-10.38	54.0	29.58	AV	275.00	150	Horizontal	N/A
3	2480.500	84.29	-10.38	74.0	10.29	Peak	275.00	150	Horizontal	N/A
4**	3090.000	33.32	-6.53	54.0	-20.68	AV	199.00	150	Horizontal	Pass
4	3090.000	43.76	-6.53	74.0	-30.24	Peak	199.00	150	Horizontal	Pass
5**	6439.000	41.91	3.14	54.0	-12.09	AV	80.00	150	Horizontal	Pass
5	6439.000	51.35	3.14	74.0	-22.65	Peak	80.00	150	Horizontal	Pass
6**	14861.813	42.48	27.09	54.0	-11.52	AV	360.00	150	Horizontal	Pass
6	14861.813	57.69	27.09	74.0	-16.31	Peak	360.00	150	Horizontal	Pass

8-DPSK LOW CHANNEL 1 GHz to 18 GHz, ANT V

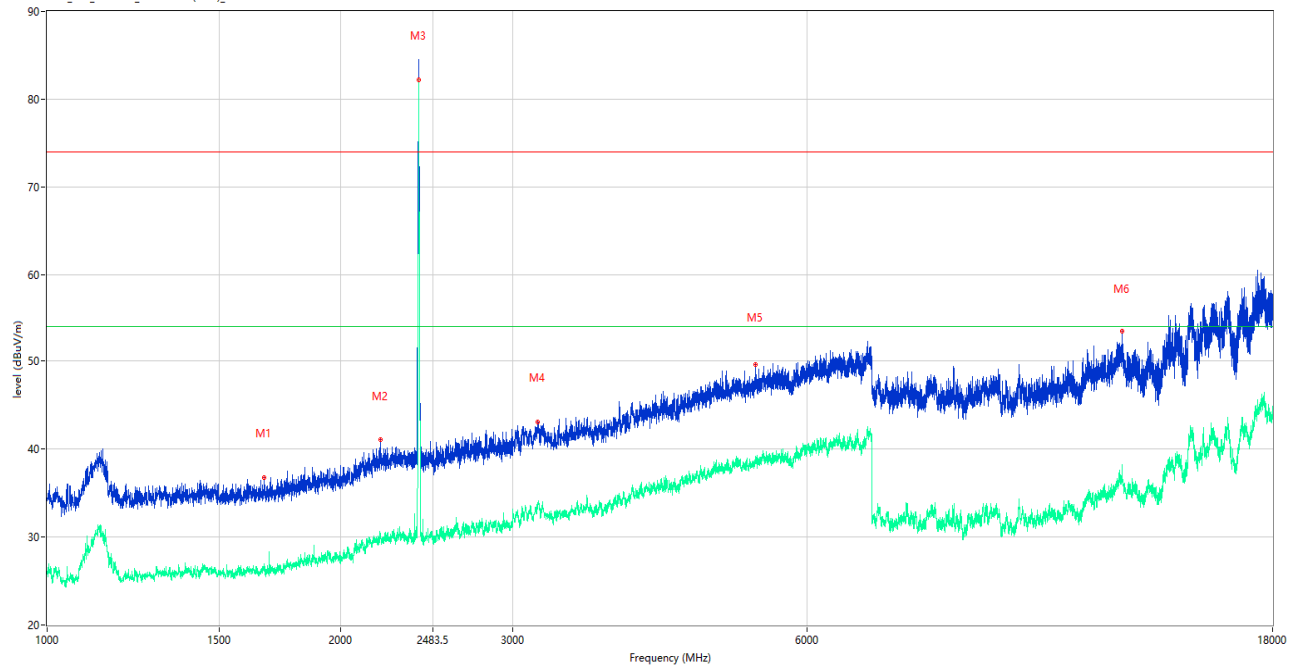
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1875.000	29.11	-13.98	54.0	-24.89	AV	275.00	150	Vertical	Pass
1	1875.000	39.28	-13.98	74.0	-34.72	Peak	275.00	150	Vertical	Pass
2**	2402.500	81.34	-10.66	54.0	27.34	AV	21.00	150	Vertical	N/A
2	2402.500	83.67	-10.66	74.0	9.67	Peak	21.00	150	Vertical	N/A
3**	2625.000	33.36	-8.68	54.0	-20.64	AV	64.00	150	Vertical	Pass
3	2625.000	41.78	-8.68	74.0	-32.22	Peak	64.00	150	Vertical	Pass
4**	4672.000	37.71	-2.07	54.0	-16.29	AV	75.00	150	Vertical	Pass
4	4672.000	47.76	-2.07	74.0	-26.24	Peak	75.00	150	Vertical	Pass
5**	6460.000	40.70	2.48	54.0	-13.30	AV	70.00	150	Vertical	Pass
5	6460.000	52.02	2.48	74.0	-21.98	Peak	70.00	150	Vertical	Pass
6**	14818.500	42.48	26.76	54.0	-11.52	AV	360.00	150	Vertical	Pass
6	14818.500	57.82	26.76	74.0	-16.18	Peak	360.00	150	Vertical	Pass

8-DPSK LOW CHANNEL 1 GHz to 18 GHz, ANT H

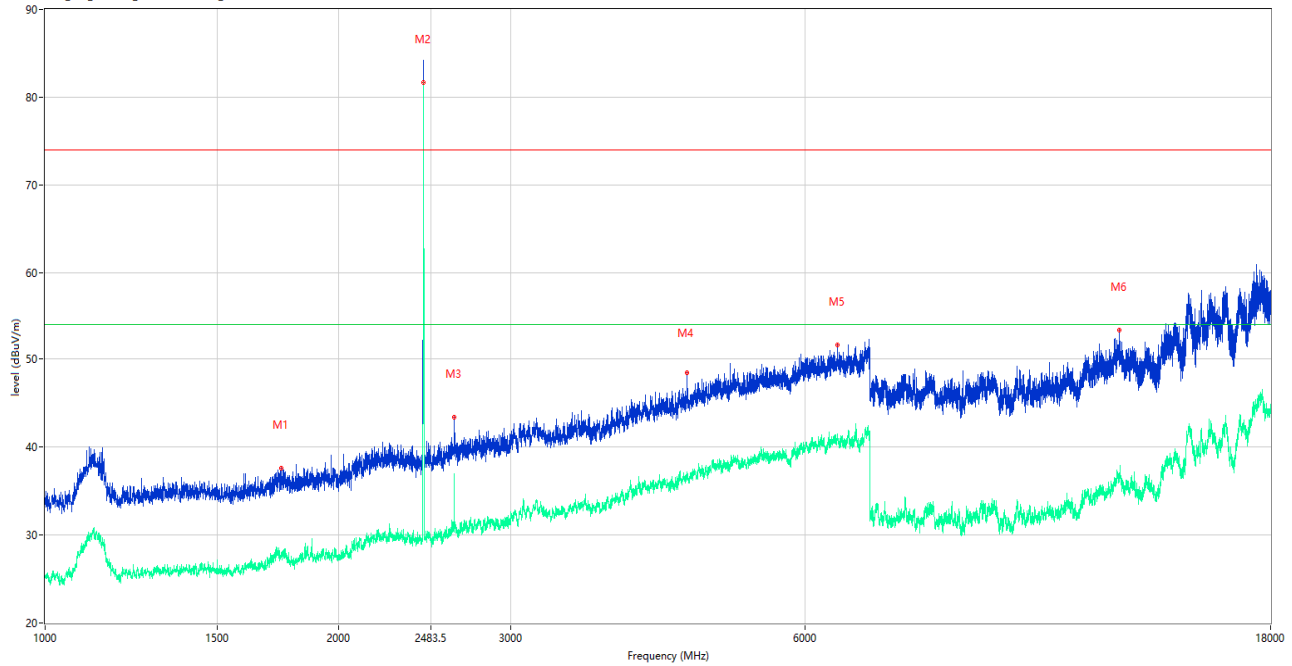
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1668.500	26.18	-14.88	54.0	-27.82	AV	98.00	150	Horizontal	Pass
1	1668.500	36.80	-14.88	74.0	-37.20	Peak	98.00	150	Horizontal	Pass
2**	2193.500	29.92	-10.85	54.0	-24.08	AV	181.00	150	Horizontal	Pass
2	2193.500	41.08	-10.85	74.0	-32.92	Peak	181.00	150	Horizontal	Pass
3**	2402.500	82.21	-10.66	54.0	28.21	AV	273.00	150	Horizontal	N/A
3	2402.500	84.28	-10.66	74.0	10.28	Peak	273.00	150	Horizontal	N/A
4**	3182.000	33.37	-5.85	54.0	-20.63	AV	43.00	150	Horizontal	Pass
4	3182.000	43.14	-5.85	74.0	-30.86	Peak	43.00	150	Horizontal	Pass
5**	5318.000	38.60	-0.14	54.0	-15.40	AV	360.00	150	Horizontal	Pass
5	5318.000	49.61	-0.14	74.0	-24.39	Peak	360.00	150	Horizontal	Pass
6**	12623.500	36.72	22.23	54.0	-17.28	AV	164.00	150	Horizontal	Pass
6	12623.500	53.41	22.23	74.0	-20.59	Peak	164.00	150	Horizontal	Pass

8-DPSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

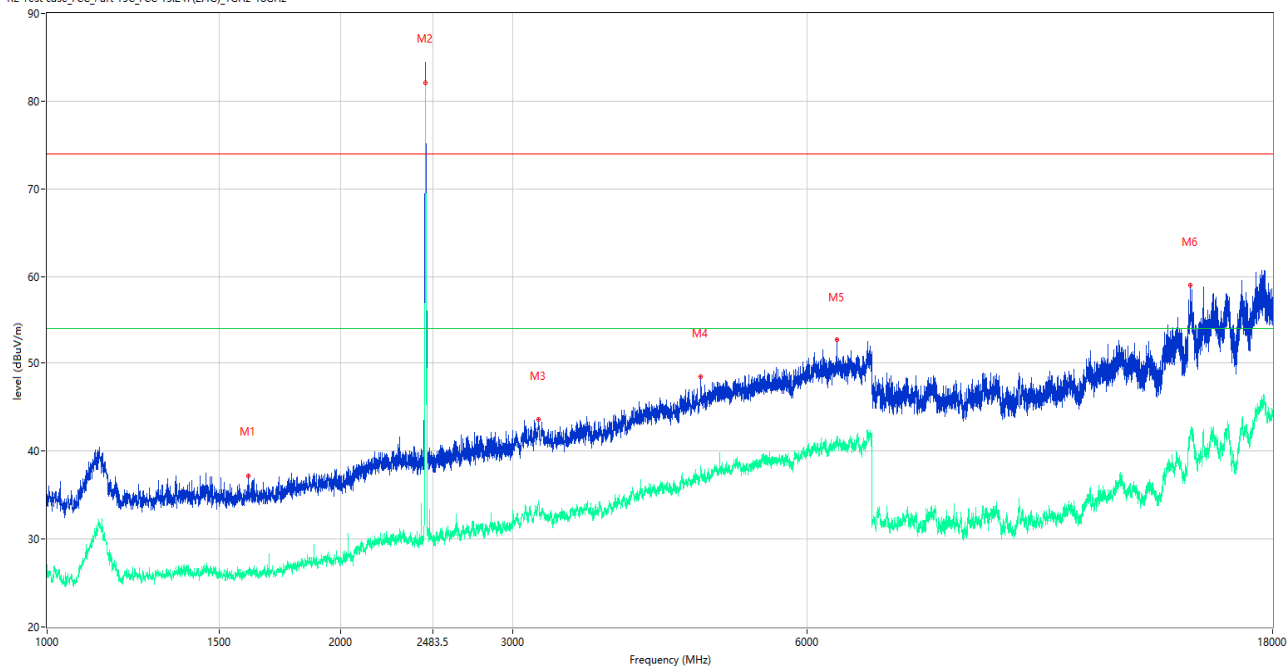
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1746.000	27.46	-15.18	54.0	-26.54	AV	47.00	150	Vertical	Pass
1	1746.000	37.62	-15.18	74.0	-36.38	Peak	47.00	150	Vertical	Pass
2**	2441.500	81.69	-10.74	54.0	27.69	AV	126.00	150	Vertical	N/A
2	2441.500	83.88	-10.74	74.0	9.88	Peak	126.00	150	Vertical	N/A
3**	2625.000	32.99	-8.68	54.0	-21.01	AV	272.00	150	Vertical	Pass
3	2625.000	43.36	-8.68	74.0	-30.64	Peak	272.00	150	Vertical	Pass
4**	4548.000	36.70	-2.83	54.0	-17.30	AV	0.00	150	Vertical	Pass
4	4548.000	48.50	-2.83	74.0	-25.50	Peak	0.00	150	Vertical	Pass
5**	6482.000	41.18	3.02	54.0	-12.82	AV	94.00	150	Vertical	Pass
5	6482.000	51.67	3.02	74.0	-22.33	Peak	94.00	150	Vertical	Pass
6**	12601.938	36.24	22.03	54.0	-17.76	AV	322.00	150	Vertical	Pass
6	12601.938	53.33	22.03	74.0	-20.67	Peak	322.00	150	Vertical	Pass

8-DPSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

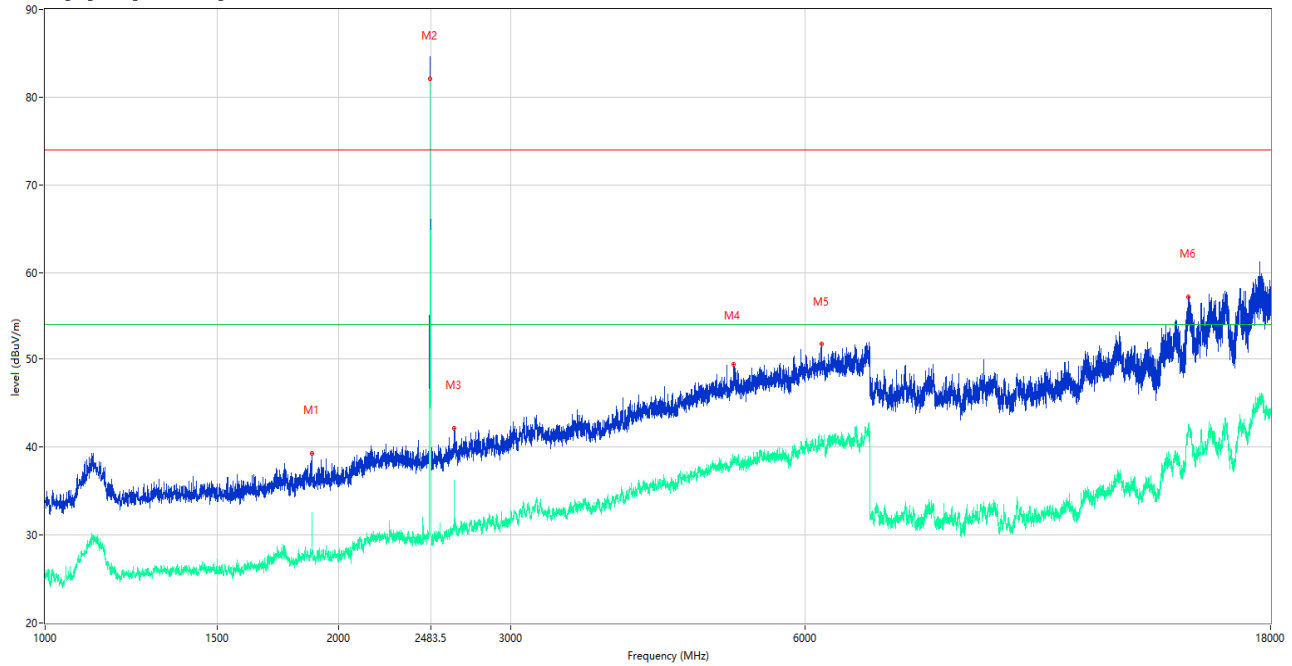
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1608.500	26.32	-15.31	54.0	-27.68	AV	0.00	150	Horizontal	Pass
1	1608.500	37.23	-15.31	74.0	-36.77	Peak	0.00	150	Horizontal	Pass
2**	2441.500	82.11	-10.74	54.0	28.11	AV	306.00	150	Horizontal	N/A
2	2441.500	84.08	-10.74	74.0	10.08	Peak	306.00	150	Horizontal	N/A
3**	3185.000	34.23	-5.68	54.0	-19.77	AV	51.00	150	Horizontal	Pass
3	3185.000	43.62	-5.68	74.0	-30.38	Peak	51.00	150	Horizontal	Pass
4**	4674.000	37.49	-2.13	54.0	-16.51	AV	169.00	150	Horizontal	Pass
4	4674.000	48.46	-2.13	74.0	-25.54	Peak	169.00	150	Horizontal	Pass
5**	6439.000	41.00	3.14	54.0	-13.00	AV	5.00	150	Horizontal	Pass
5	6439.000	52.63	3.14	74.0	-21.37	Peak	5.00	150	Horizontal	Pass
6**	14831.625	41.92	26.80	54.0	-12.08	AV	295.00	150	Horizontal	Pass
6	14831.625	59.00	26.80	74.0	-15.00	Peak	295.00	150	Horizontal	Pass

8-DPSK HIGH CHANNEL 1 GHz to 18 GHz, ANT V

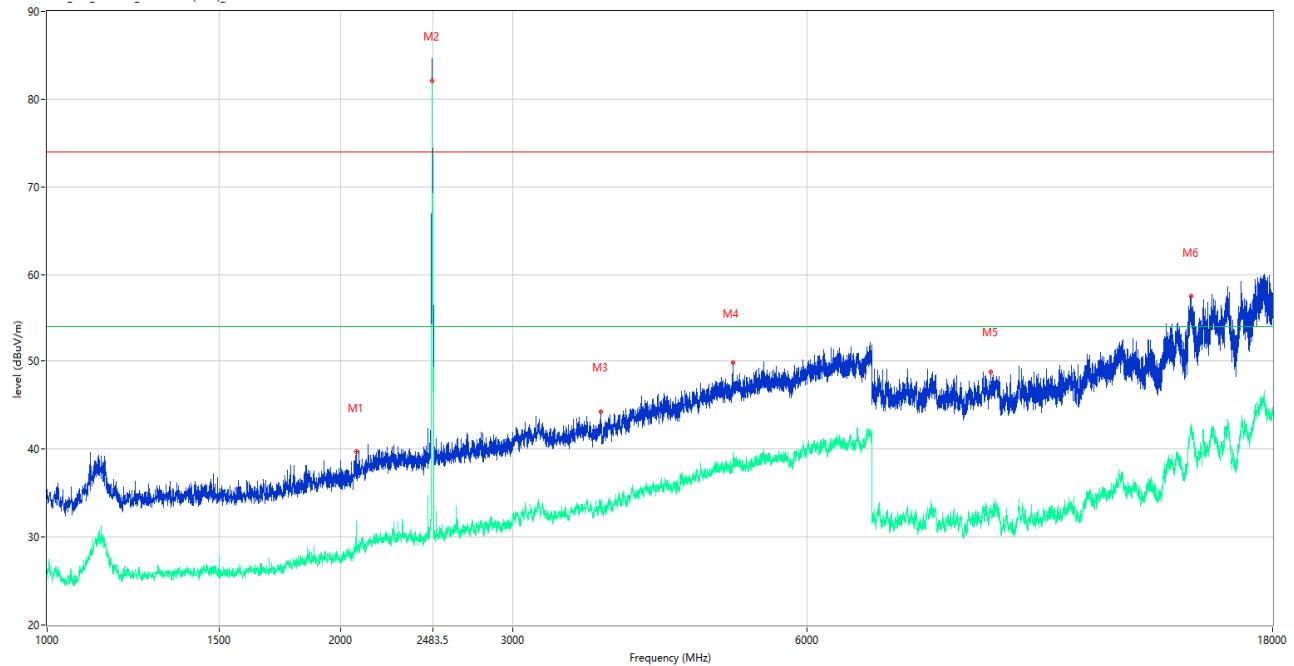
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1875.000	28.17	-13.98	54.0	-25.83	AV	278.00	150	Vertical	Pass
1	1875.000	39.28	-13.98	74.0	-34.72	Peak	278.00	150	Vertical	Pass
2**	2480.500	82.05	-10.38	54.0	28.05	AV	151.00	150	Vertical	N/A
2	2480.500	84.46	-10.38	74.0	10.46	Peak	151.00	150	Vertical	N/A
3**	2625.000	34.48	-8.68	54.0	-19.52	AV	341.00	150	Vertical	Pass
3	2625.000	42.13	-8.68	74.0	-31.87	Peak	341.00	150	Vertical	Pass
4**	5068.000	38.68	-0.76	54.0	-15.32	AV	13.00	150	Vertical	Pass
4	5068.000	49.38	-0.76	74.0	-24.62	Peak	13.00	150	Vertical	Pass
5**	6239.000	41.26	2.83	54.0	-12.74	AV	289.00	150	Vertical	Pass
5	6239.000	51.73	2.83	74.0	-22.27	Peak	289.00	150	Vertical	Pass
6**	14826.375	41.87	26.81	54.0	-12.13	AV	186.00	150	Vertical	Pass
6	14826.375	57.22	26.81	74.0	-16.78	Peak	186.00	150	Vertical	Pass

8-DPSK HIGH CHANNEL 1 GHz to 18 GHz, ANT H

RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz

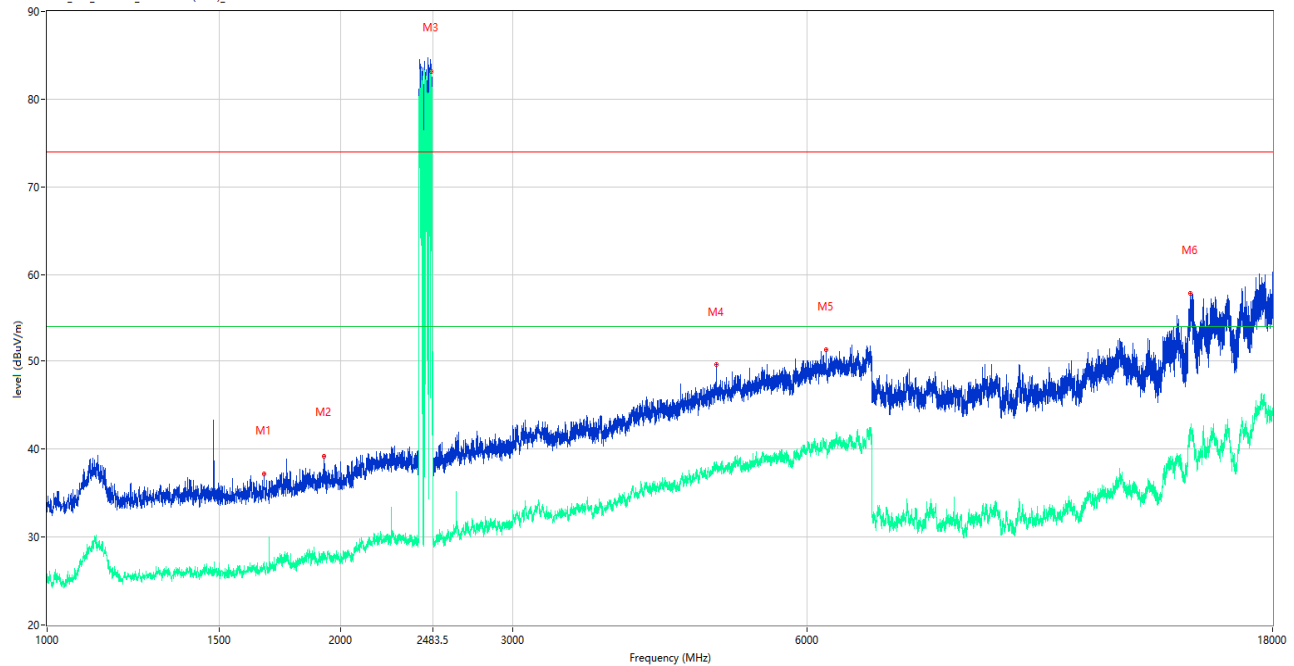


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	2072.000	30.84	-12.17	54.0	-23.16	AV	360.00	150	Horizontal	Pass
1	2072.000	39.72	-12.17	74.0	-34.28	Peak	360.00	150	Horizontal	Pass
2**	2480.500	82.10	-10.38	54.0	28.10	AV	287.00	150	Horizontal	N/A
2	2480.500	84.59	-10.38	74.0	10.59	Peak	287.00	150	Horizontal	N/A
3**	3691.000	33.24	-6.06	54.0	-20.76	AV	147.00	150	Horizontal	Pass
3	3691.000	44.27	-6.06	74.0	-29.73	Peak	147.00	150	Horizontal	Pass
4**	5045.000	38.18	-0.83	54.0	-15.82	AV	50.00	150	Horizontal	Pass
4	5045.000	49.83	-0.83	74.0	-24.17	Peak	50.00	150	Horizontal	Pass
5**	9258.313	33.41	18.18	54.0	-20.59	AV	310.00	150	Horizontal	Pass
5	9258.313	48.74	18.18	74.0	-25.26	Peak	310.00	150	Horizontal	Pass
6**	14850.000	42.19	26.99	54.0	-11.81	AV	194.00	150	Horizontal	Pass
6	14850.000	57.50	26.99	74.0	-16.50	Peak	194.00	150	Horizontal	Pass

Hopping Mode:

GFSK MODE 1 GHz to 18 GHz, ANT V

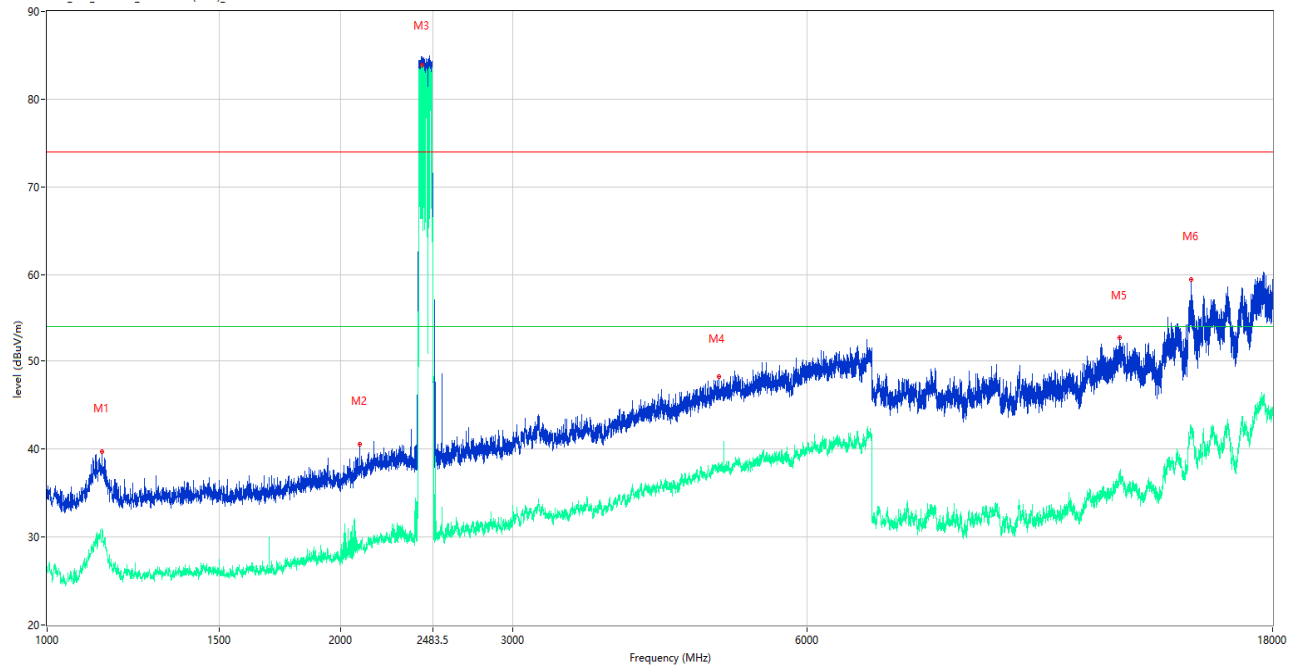
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1669.000	26.87	-14.98	54.0	-27.13	AV	343.00	150	Vertical	Pass
1	1669.000	37.15	-14.98	74.0	-36.85	Peak	343.00	150	Vertical	Pass
2**	1919.500	27.82	-13.94	54.0	-26.18	AV	264.00	150	Vertical	Pass
2	1919.500	39.23	-13.94	74.0	-34.77	Peak	264.00	150	Vertical	Pass
3**	2476.500	83.11	-10.48	54.0	29.11	AV	106.00	150	Vertical	N/A
3	2476.500	83.69	-10.48	74.0	9.69	Peak	106.00	150	Vertical	N/A
4**	4845.000	38.60	-1.53	54.0	-15.40	AV	34.00	150	Vertical	Pass
4	4845.000	49.61	-1.53	74.0	-24.39	Peak	34.00	150	Vertical	Pass
5**	6276.000	40.77	2.56	54.0	-13.23	AV	16.00	150	Vertical	Pass
5	6276.000	51.33	2.56	74.0	-22.67	Peak	16.00	150	Vertical	Pass
6**	14831.625	41.80	26.80	54.0	-12.20	AV	256.00	150	Vertical	Pass
6	14831.625	57.82	26.80	74.0	-16.18	Peak	256.00	150	Vertical	Pass

GFSK MODE 1 GHz to 18 GHz, ANT H

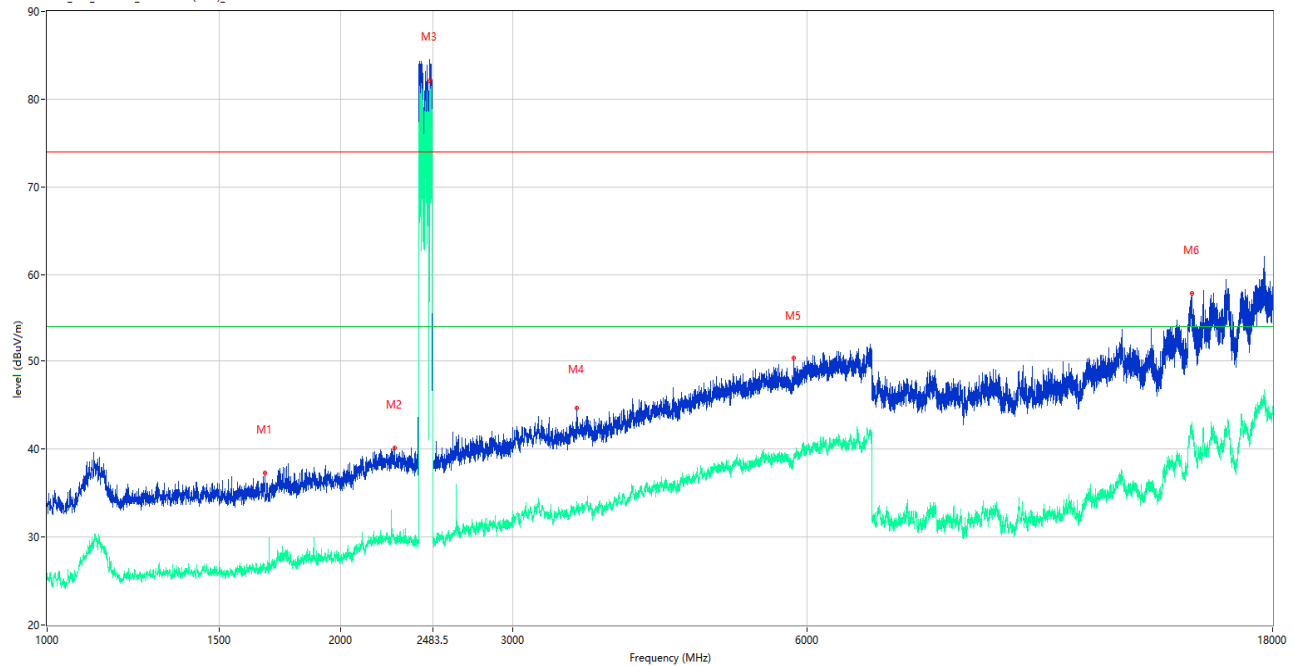
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1138.500	30.05	-14.91	54.0	-23.95	AV	252.00	150	Horizontal	Pass
1	1138.500	39.68	-14.91	74.0	-34.32	Peak	252.00	150	Horizontal	Pass
2**	2090.500	29.19	-11.94	54.0	-24.81	AV	252.00	150	Horizontal	Pass
2	2090.500	40.53	-11.94	74.0	-33.47	Peak	252.00	150	Horizontal	Pass
3**	2420.500	83.87	-10.18	54.0	29.87	AV	58.00	150	Horizontal	N/A
3	2420.500	83.47	-10.18	74.0	9.47	Peak	58.00	150	Horizontal	N/A
4**	4880.000	37.93	-1.65	54.0	-16.07	AV	181.00	150	Horizontal	Pass
4	4880.000	48.30	-1.65	74.0	-25.70	Peak	181.00	150	Horizontal	Pass
5**	12550.187	36.64	21.77	54.0	-17.36	AV	330.00	150	Horizontal	Pass
5	12550.187	52.66	21.77	74.0	-21.34	Peak	330.00	150	Horizontal	Pass
6**	14852.625	42.48	27.03	54.0	-11.52	AV	117.00	150	Horizontal	Pass
6	14852.625	59.43	27.03	74.0	-14.57	Peak	117.00	150	Horizontal	Pass

8-DPSK MODE 1 GHz to 18 GHz, ANT V

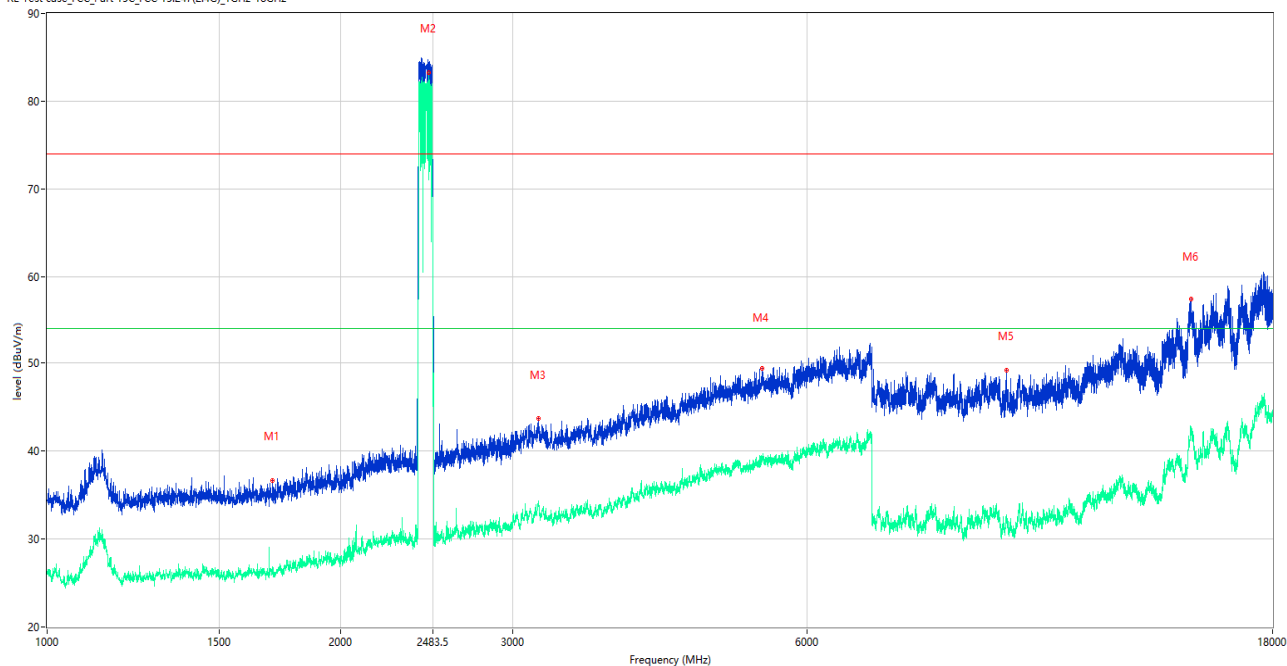
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1672.000	26.21	-15.36	54.0	-27.79	AV	55.00	150	Vertical	Pass
1	1672.000	37.28	-15.36	74.0	-36.72	Peak	55.00	150	Vertical	Pass
2**	2268.000	29.70	-10.45	54.0	-24.30	AV	251.00	150	Vertical	Pass
2	2268.000	40.12	-10.45	74.0	-33.88	Peak	251.00	150	Vertical	Pass
3**	2465.500	82.10	-10.14	54.0	28.10	AV	16.00	150	Vertical	N/A
3	2465.500	84.18	-10.14	74.0	10.18	Peak	16.00	150	Vertical	N/A
4**	3488.000	33.77	-6.43	54.0	-20.23	AV	185.00	150	Vertical	Pass
4	3488.000	44.66	-6.43	74.0	-29.34	Peak	185.00	150	Vertical	Pass
5**	5817.000	38.77	0.51	54.0	-15.23	AV	109.00	150	Vertical	Pass
5	5817.000	50.36	0.51	74.0	-23.64	Peak	109.00	150	Vertical	Pass
6**	14868.375	41.97	26.87	54.0	-12.03	AV	325.00	150	Vertical	Pass
6	14868.375	57.83	26.87	74.0	-16.17	Peak	325.00	150	Vertical	Pass

8-DPSK MODE 1 GHz to 18 GHz, ANT H

RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz

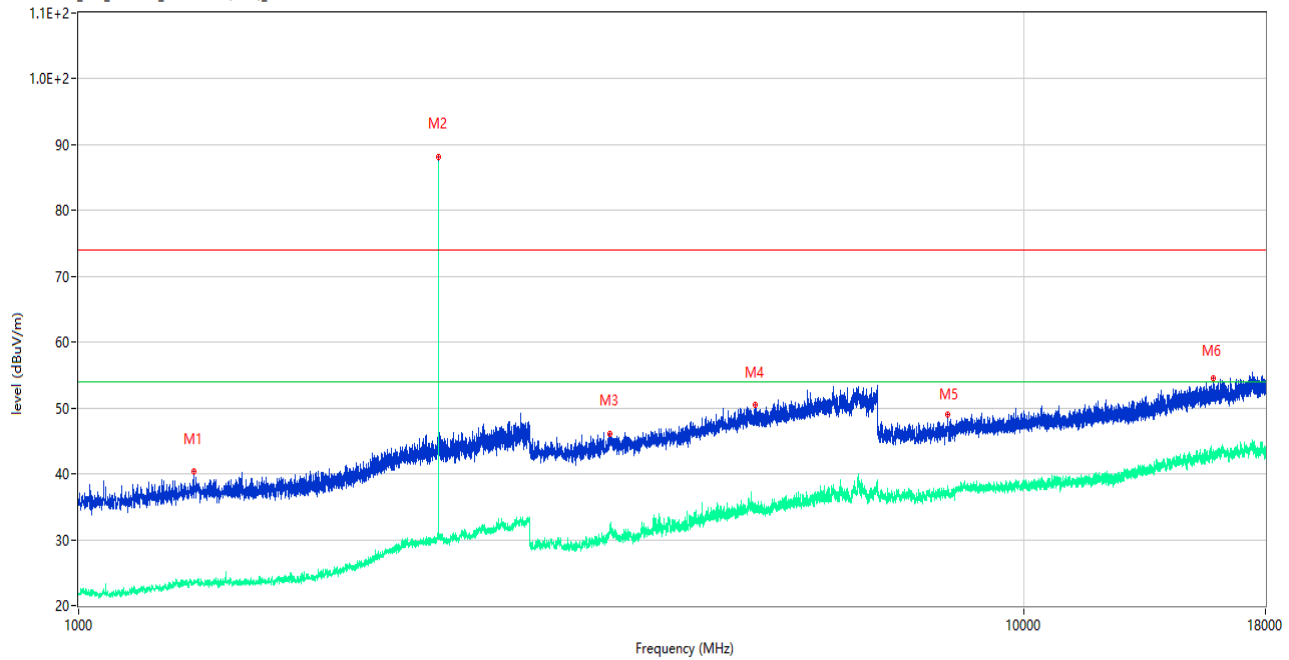


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1702.500	26.41	-15.21	54.0	-27.59	AV	26.00	150	Horizontal	Pass
1	1702.500	36.63	-15.21	74.0	-37.37	Peak	26.00	150	Horizontal	Pass
2**	2461.500	83.26	-10.36	54.0	29.26	AV	65.00	150	Horizontal	N/A
2	2461.500	83.72	-10.36	74.0	9.72	Peak	65.00	150	Horizontal	N/A
3**	3187.000	34.37	-5.71	54.0	-19.63	AV	0.00	150	Horizontal	Pass
3	3187.000	43.67	-5.71	74.0	-30.33	Peak	0.00	150	Horizontal	Pass
4**	5405.000	39.05	0.11	54.0	-14.95	AV	210.00	150	Horizontal	Pass
4	5405.000	49.38	0.11	74.0	-24.62	Peak	210.00	150	Horizontal	Pass
5**	9606.187	32.08	18.36	54.0	-21.92	AV	16.00	150	Horizontal	Pass
5	9606.187	49.19	18.36	74.0	-24.81	Peak	16.00	150	Horizontal	Pass
6**	14865.750	42.02	26.96	54.0	-11.98	AV	82.00	150	Horizontal	Pass
6	14865.750	57.45	26.96	74.0	-16.55	Peak	82.00	150	Horizontal	Pass

10.1 inches

GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT V

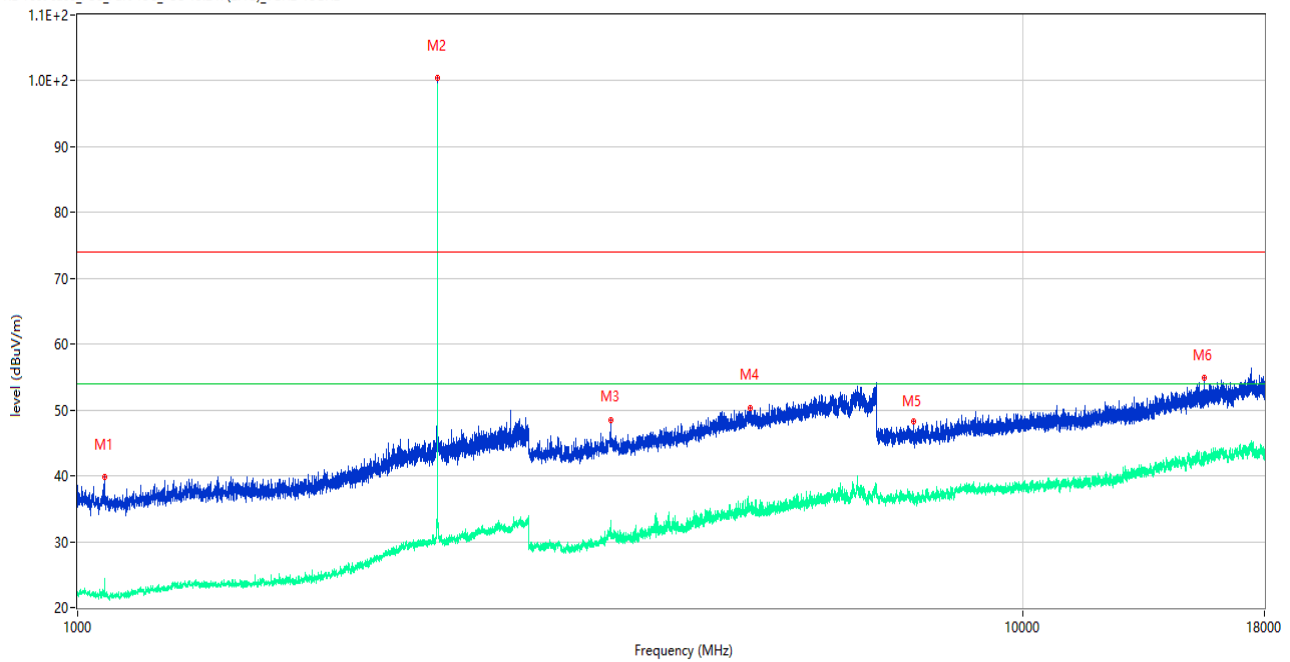
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1323.500	23.42	-17.29	54.0	-30.58	AV	360.00	150	Vertical	Pass
1	1323.500	40.35	-17.29	74.0	-33.65	Peak	360.00	150	Vertical	Pass
2**	2402.000	83.27	-11.82	54.0	29.27	AV	247.00	150	Vertical	N/A
2	2402.000	88.21	-11.82	74.0	14.21	Peak	247.00	150	Vertical	N/A
3**	3651.000	31.54	-6.40	54.0	-22.46	AV	33.00	150	Vertical	Pass
3	3651.000	46.16	-6.40	74.0	-27.84	Peak	33.00	150	Vertical	Pass
4**	5194.000	34.59	-2.93	54.0	-19.41	AV	76.00	150	Vertical	Pass
4	5194.000	50.50	-2.93	74.0	-23.50	Peak	76.00	150	Vertical	Pass
5**	8308.125	37.99	-0.68	54.0	-16.01	AV	314.00	150	Vertical	Pass
5	8308.125	49.06	-0.68	74.0	-24.94	Peak	314.00	150	Vertical	Pass
6**	15839.625	42.57	2.03	54.0	-11.43	AV	93.00	150	Vertical	Pass
6	15839.625	54.51	2.03	74.0	-19.49	Peak	93.00	150	Vertical	Pass

GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT H

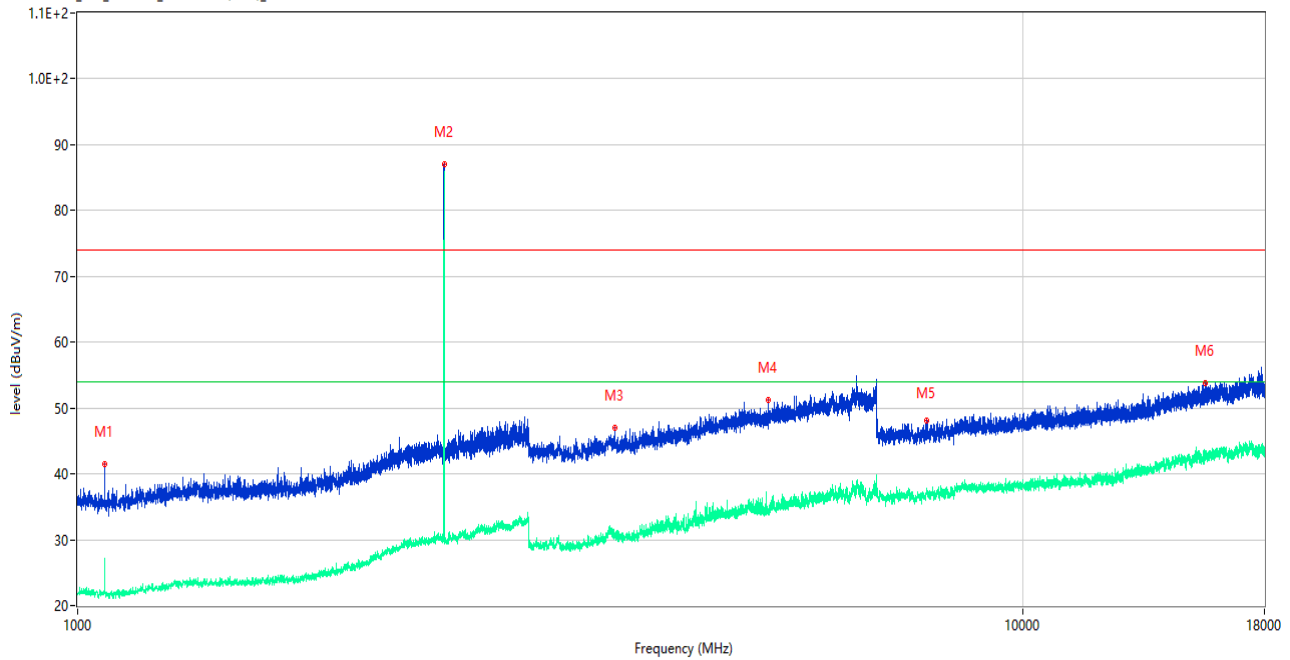
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1068.000	22.41	-18.12	54.0	-31.59	AV	100.00	150	Horizontal	Pass
1	1068.000	39.86	-18.12	74.0	-34.14	Peak	100.00	150	Horizontal	Pass
2**	2402.000	95.61	-11.82	54.0	41.61	AV	265.00	150	Horizontal	N/A
2	2402.000	100.46	-11.82	74.0	26.46	Peak	265.00	150	Horizontal	N/A
3**	3661.000	30.90	-6.90	54.0	-23.10	AV	173.00	150	Horizontal	Pass
3	3661.000	48.44	-6.90	74.0	-25.56	Peak	173.00	150	Horizontal	Pass
4**	5149.000	35.41	-2.92	54.0	-18.59	AV	36.00	150	Horizontal	Pass
4	5149.000	50.36	-2.92	74.0	-23.64	Peak	36.00	150	Horizontal	Pass
5**	7652.625	36.60	-2.89	54.0	-17.40	AV	251.00	150	Horizontal	Pass
5	7652.625	48.32	-2.89	74.0	-25.68	Peak	251.00	150	Horizontal	Pass
6**	15556.125	42.53	2.12	54.0	-11.47	AV	360.00	150	Horizontal	Pass
6	15556.125	54.83	2.12	74.0	-19.17	Peak	360.00	150	Horizontal	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

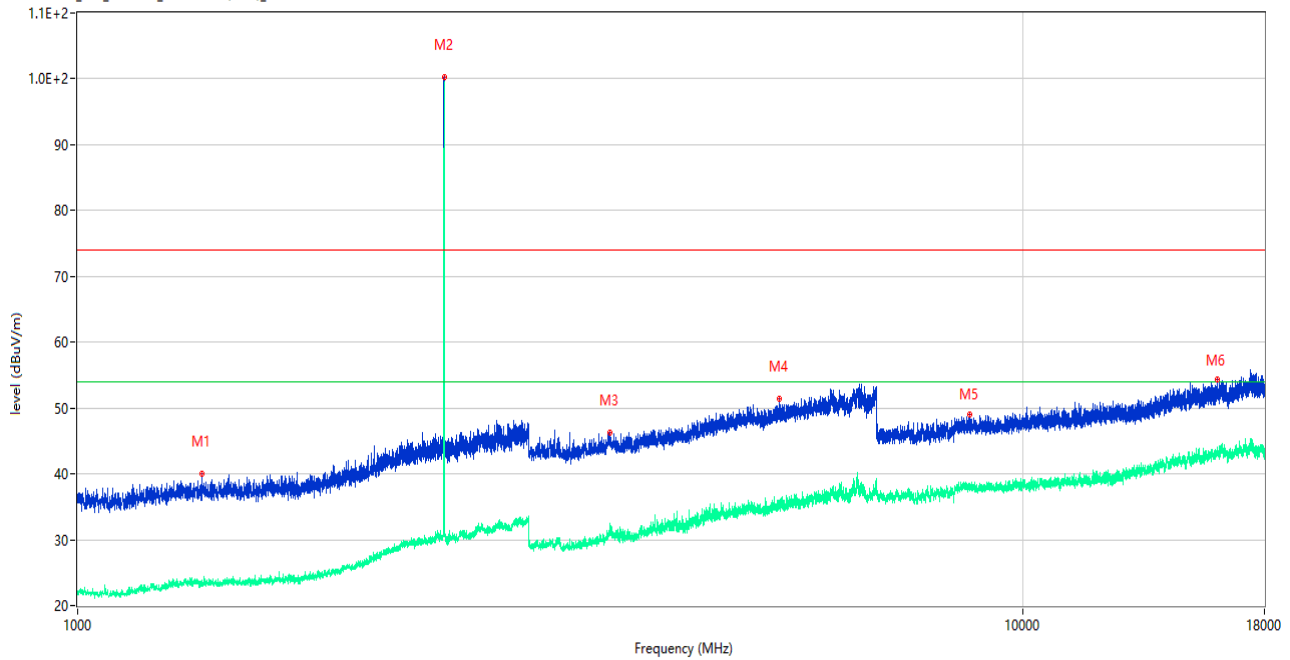
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1068.000	23.13	-18.12	54.0	-30.87	AV	80.00	150	Vertical	Pass
1	1068.000	41.40	-18.12	74.0	-32.60	Peak	80.00	150	Vertical	Pass
2**	2441.000	81.78	-12.60	54.0	27.78	AV	241.00	150	Vertical	N/A
2	2441.000	86.98	-12.60	74.0	12.98	Peak	241.00	150	Vertical	N/A
3**	3698.000	30.52	-6.01	54.0	-23.48	AV	320.00	150	Vertical	Pass
3	3698.000	46.95	-6.01	74.0	-27.05	Peak	320.00	150	Vertical	Pass
4**	5375.000	34.06	-2.77	54.0	-19.94	AV	25.00	150	Vertical	Pass
4	5375.000	51.14	-2.77	74.0	-22.86	Peak	25.00	150	Vertical	Pass
5**	7897.000	37.43	-2.57	54.0	-16.57	AV	172.00	150	Vertical	Pass
5	7897.000	48.02	-2.57	74.0	-25.98	Peak	172.00	150	Vertical	Pass
6**	15585.000	43.32	2.30	54.0	-10.68	AV	259.00	150	Vertical	Pass
6	15585.000	53.81	2.30	74.0	-20.19	Peak	259.00	150	Vertical	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

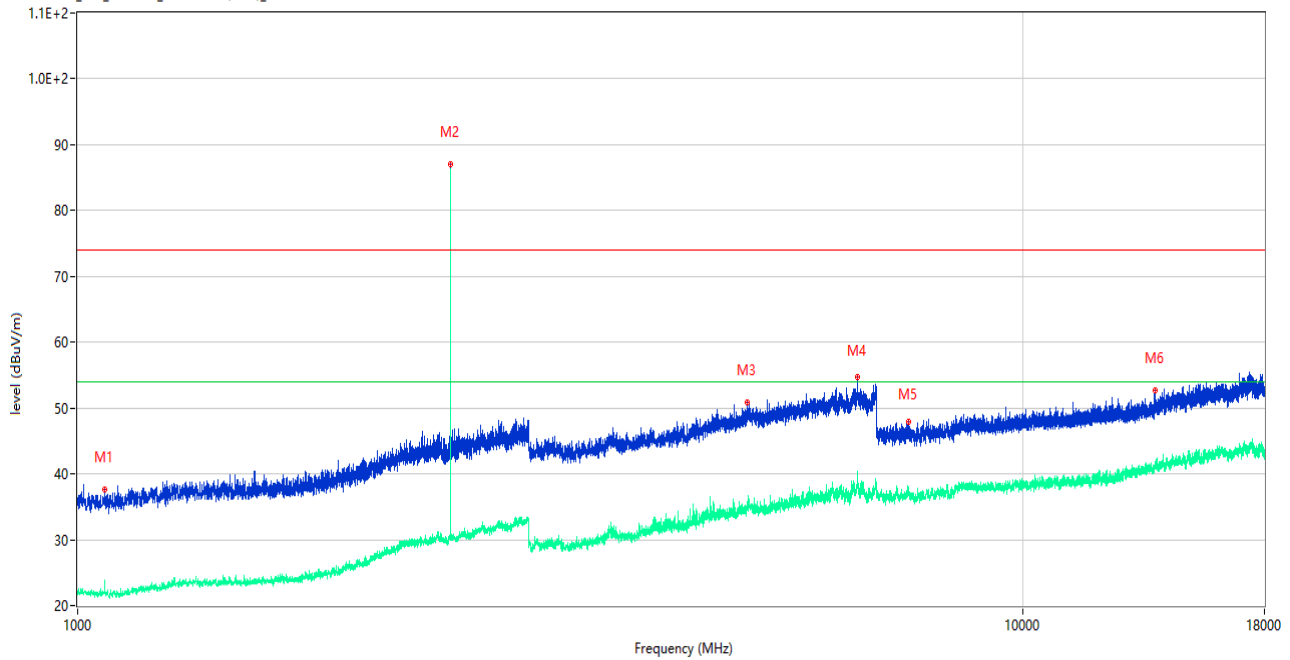
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1352.500	22.98	-17.39	54.0	-31.02	AV	12.00	150	Horizontal	Pass
1	1352.500	39.96	-17.39	74.0	-34.04	Peak	12.00	150	Horizontal	Pass
2**	2441.000	95.71	-12.60	54.0	41.71	AV	264.00	150	Horizontal	N/A
2	2441.000	100.30	-12.60	74.0	26.30	Peak	264.00	150	Horizontal	N/A
3**	3658.000	31.43	-6.84	54.0	-22.57	AV	303.00	150	Horizontal	Pass
3	3658.000	46.27	-6.84	74.0	-27.73	Peak	303.00	150	Horizontal	Pass
4**	5524.000	34.91	-2.25	54.0	-19.09	AV	100.00	150	Horizontal	Pass
4	5524.000	51.34	-2.25	74.0	-22.66	Peak	100.00	150	Horizontal	Pass
5**	8791.125	38.02	-0.86	54.0	-15.98	AV	260.00	150	Horizontal	Pass
5	8791.125	49.01	-0.86	74.0	-24.99	Peak	260.00	150	Horizontal	Pass
6**	16058.812	43.21	1.86	54.0	-10.79	AV	140.00	150	Horizontal	Pass
6	16058.812	54.27	1.86	74.0	-19.73	Peak	140.00	150	Horizontal	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT V

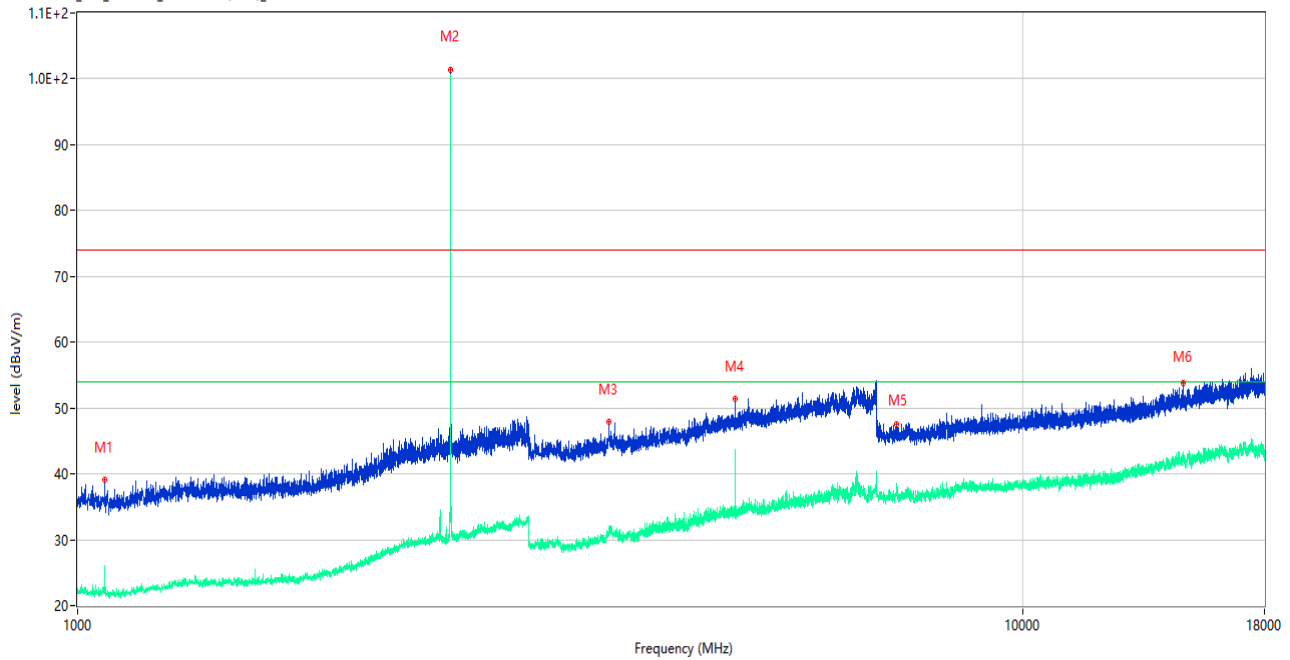
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1068.000	22.41	-18.12	54.0	-31.59	AV	64.00	150	Vertical	Pass
1	1068.000	37.63	-18.12	74.0	-36.37	Peak	64.00	150	Vertical	Pass
2**	2480.000	82.62	-11.99	54.0	28.62	AV	241.00	150	Vertical	N/A
2	2480.000	87.09	-11.99	74.0	13.09	Peak	241.00	150	Vertical	N/A
3**	5104.000	35.81	-2.43	54.0	-18.19	AV	335.00	150	Vertical	Pass
3	5104.000	50.83	-2.43	74.0	-23.17	Peak	335.00	150	Vertical	Pass
4**	6678.000	38.88	0.29	54.0	-15.12	AV	360.00	150	Vertical	Pass
4	6678.000	54.80	0.29	74.0	-19.20	Peak	360.00	150	Vertical	Pass
5**	7573.562	37.08	-2.44	54.0	-16.92	AV	351.00	150	Vertical	Pass
5	7573.562	47.93	-2.44	74.0	-26.07	Peak	351.00	150	Vertical	Pass
6**	13809.188	41.79	2.80	54.0	-12.21	AV	322.00	150	Vertical	Pass
6	13809.188	52.60	2.80	74.0	-21.40	Peak	322.00	150	Vertical	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT H

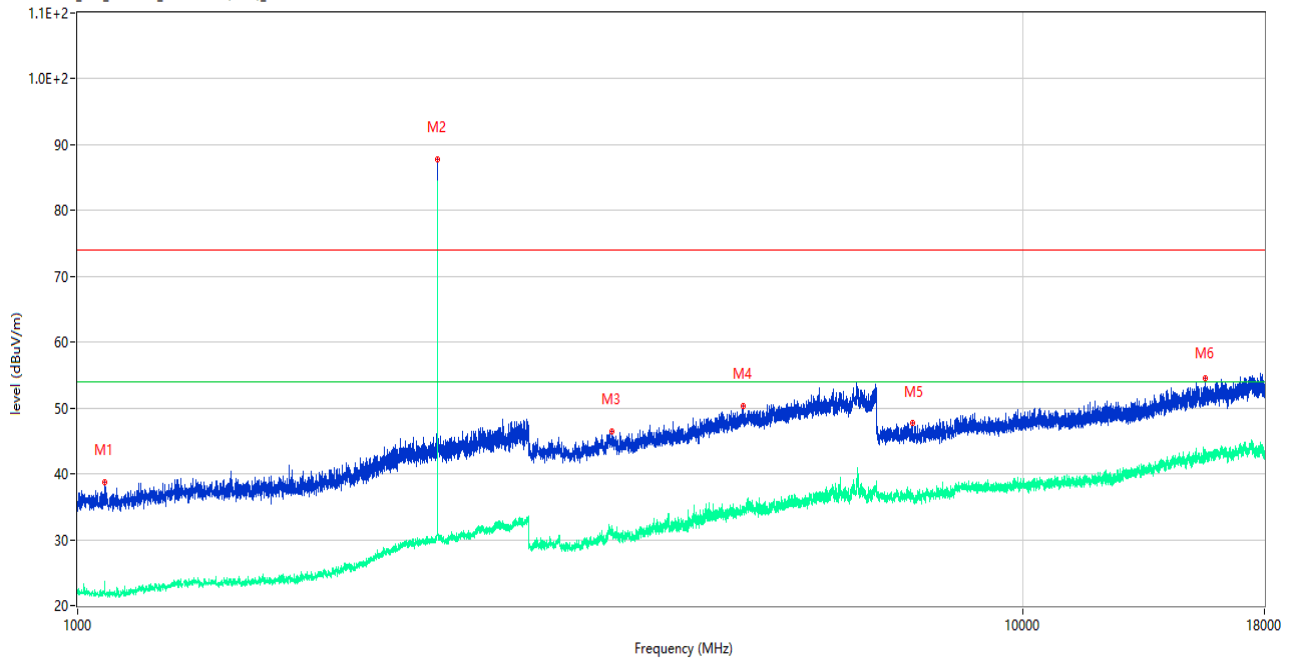
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1068.000	23.64	-18.12	54.0	-30.36	AV	121.00	150	Horizontal	Pass
1	1068.000	39.04	-18.12	74.0	-34.96	Peak	121.00	150	Horizontal	Pass
2**	2479.500	84.04	-11.99	54.0	30.04	AV	260.00	150	Horizontal	N/A
2	2479.500	101.29	-11.99	74.0	27.29	Peak	260.00	150	Horizontal	N/A
3**	3647.000	31.91	-6.23	54.0	-22.09	AV	80.00	150	Horizontal	Pass
3	3647.000	47.92	-6.23	74.0	-26.08	Peak	80.00	150	Horizontal	Pass
4**	4960.000	37.81	-3.24	54.0	-16.19	AV	69.00	150	Horizontal	Pass
4	4960.000	51.43	-3.24	74.0	-22.57	Peak	69.00	150	Horizontal	Pass
5**	7342.125	36.65	-3.63	54.0	-17.35	AV	178.00	150	Horizontal	Pass
5	7342.125	47.57	-3.63	74.0	-26.43	Peak	178.00	150	Horizontal	Pass
6**	14775.187	42.35	1.46	54.0	-11.65	AV	281.00	150	Horizontal	Pass
6	14775.187	53.72	1.46	74.0	-20.28	Peak	281.00	150	Horizontal	Pass

8-DPSK LOW CHANNEL 1 GHz to 18 GHz, ANT V

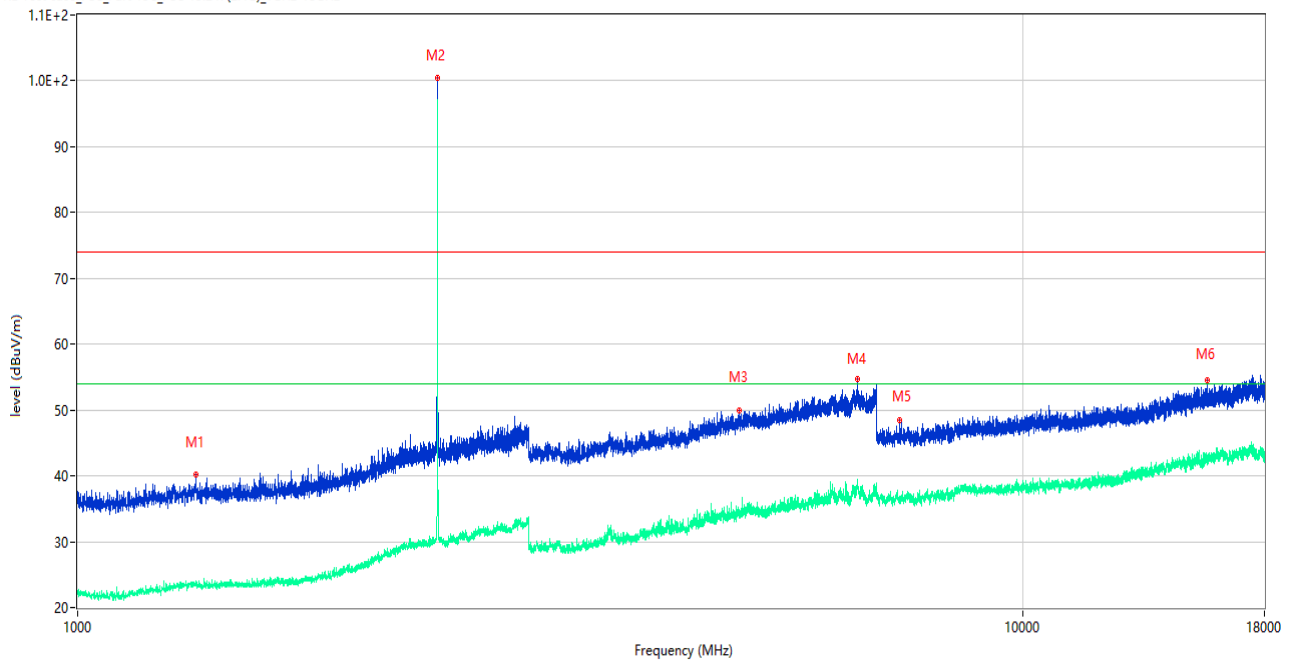
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1068.000	22.24	-18.12	54.0	-31.76	AV	50.00	150	Vertical	Pass
1	1068.000	38.66	-18.12	74.0	-35.34	Peak	50.00	150	Vertical	Pass
2**	2402.000	82.52	-11.82	54.0	28.52	AV	248.00	150	Vertical	N/A
2	2402.000	87.76	-11.82	74.0	13.76	Peak	248.00	150	Vertical	N/A
3**	3670.000	30.82	-6.98	54.0	-23.18	AV	161.00	150	Vertical	Pass
3	3670.000	46.47	-6.98	74.0	-27.53	Peak	161.00	150	Vertical	Pass
4**	5055.000	34.77	-2.58	54.0	-19.23	AV	25.00	150	Vertical	Pass
4	5055.000	50.27	-2.58	74.0	-23.73	Peak	25.00	150	Vertical	Pass
5**	7638.250	36.68	-2.60	54.0	-17.32	AV	177.00	150	Vertical	Pass
5	7638.250	47.71	-2.60	74.0	-26.29	Peak	177.00	150	Vertical	Pass
6**	15574.500	43.63	2.60	54.0	-10.37	AV	193.00	150	Vertical	Pass
6	15574.500	54.50	2.60	74.0	-19.50	Peak	193.00	150	Vertical	Pass

8-DPSK LOW CHANNEL 1 GHz to 18 GHz, ANT H

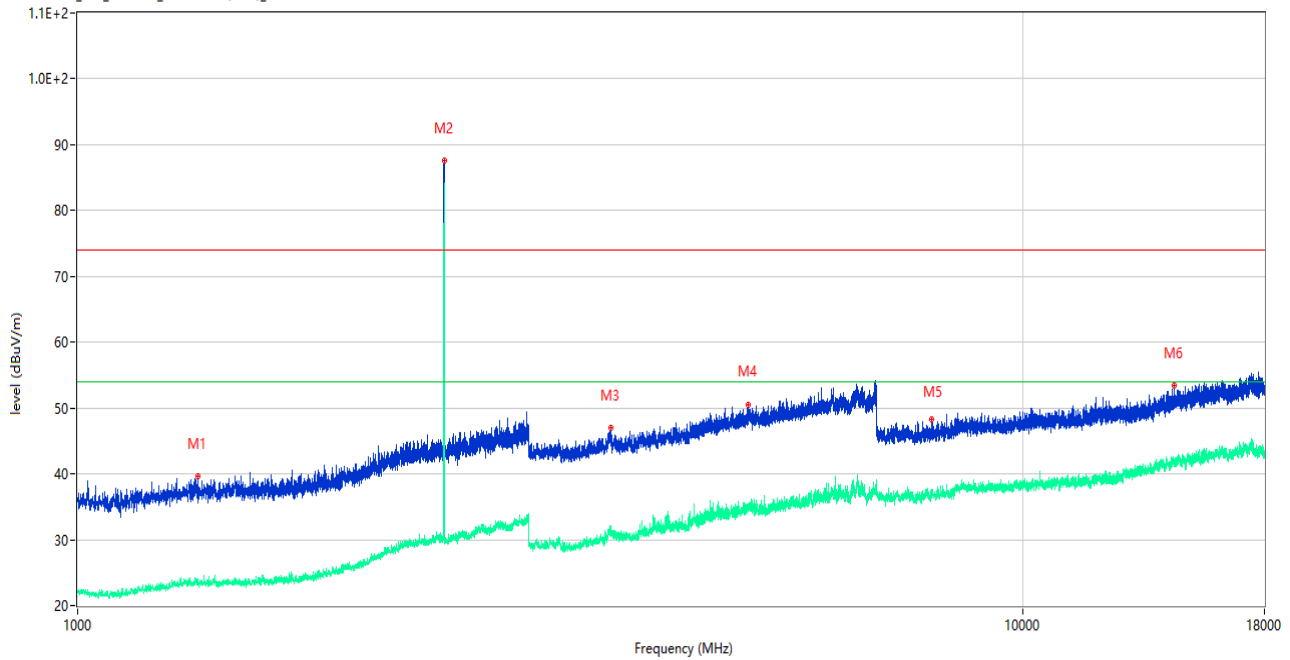
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1333.500	23.66	-16.97	54.0	-30.34	AV	192.00	150	Horizontal	Pass
1	1333.500	40.19	-16.97	74.0	-33.81	Peak	192.00	150	Horizontal	Pass
2**	2402.000	94.93	-11.82	54.0	40.93	AV	267.00	150	Horizontal	N/A
2	2402.000	100.45	-11.82	74.0	26.45	Peak	267.00	150	Horizontal	N/A
3**	5003.000	33.60	-2.92	54.0	-20.40	AV	232.00	150	Horizontal	Pass
3	5003.000	49.99	-2.92	74.0	-24.01	Peak	232.00	150	Horizontal	Pass
4**	6679.000	38.96	0.14	54.0	-15.04	AV	329.00	150	Horizontal	Pass
4	6679.000	54.72	0.14	74.0	-19.28	Peak	329.00	150	Horizontal	Pass
5**	7401.062	36.71	-3.47	54.0	-17.29	AV	143.00	150	Horizontal	Pass
5	7401.062	48.41	-3.47	74.0	-25.59	Peak	143.00	150	Horizontal	Pass
6**	15651.937	41.99	1.61	54.0	-12.01	AV	304.00	150	Horizontal	Pass
6	15651.937	54.45	1.61	74.0	-19.55	Peak	304.00	150	Horizontal	Pass

8-DPSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

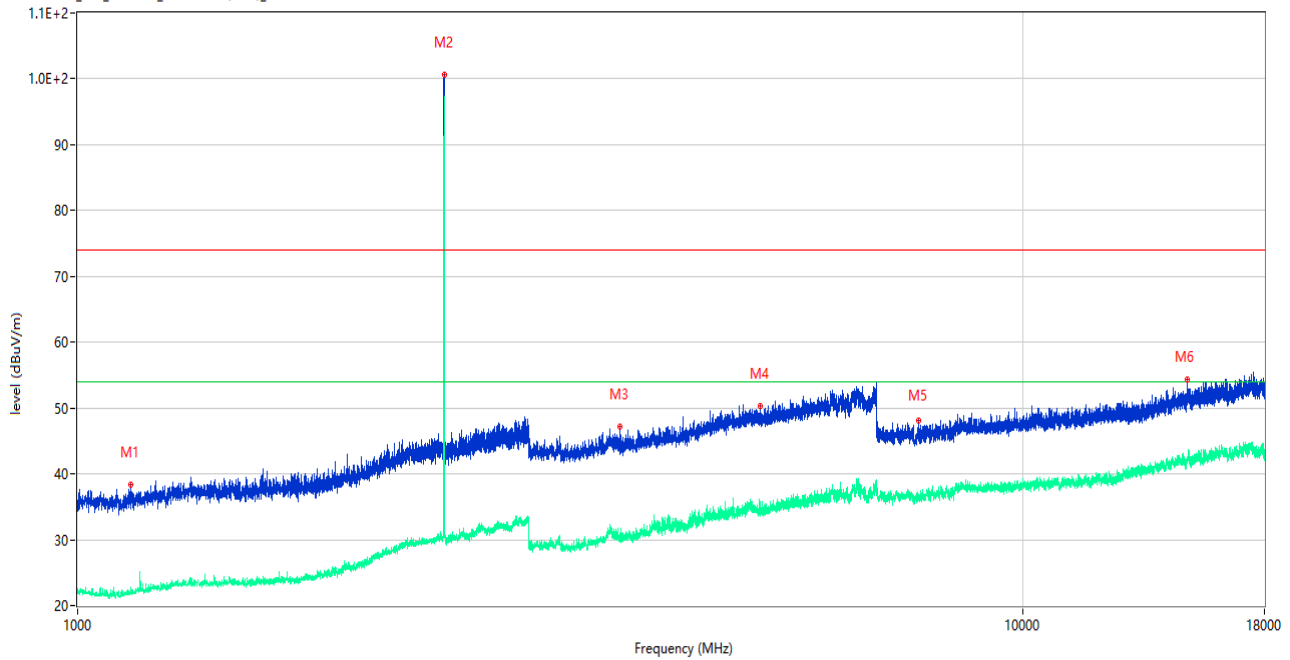
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1340.000	23.16	-17.08	54.0	-30.84	AV	296.00	150	Vertical	Pass
1	1340.000	39.62	-17.08	74.0	-34.38	Peak	296.00	150	Vertical	Pass
2**	2441.000	82.35	-12.60	54.0	28.35	AV	242.00	150	Vertical	N/A
2	2441.000	87.61	-12.60	74.0	13.61	Peak	242.00	150	Vertical	N/A
3**	3667.000	30.51	-7.24	54.0	-23.49	AV	43.00	150	Vertical	Pass
3	3667.000	46.99	-7.24	74.0	-27.01	Peak	43.00	150	Vertical	Pass
4**	5118.000	34.32	-2.34	54.0	-19.68	AV	238.00	150	Vertical	Pass
4	5118.000	50.55	-2.34	74.0	-23.45	Peak	238.00	150	Vertical	Pass
5**	8010.563	36.92	-2.18	54.0	-17.08	AV	3.00	150	Vertical	Pass
5	8010.563	48.28	-2.18	74.0	-25.72	Peak	3.00	150	Vertical	Pass
6**	14445.750	41.62	2.67	54.0	-12.38	AV	278.00	150	Vertical	Pass
6	14445.750	53.39	2.67	74.0	-20.61	Peak	278.00	150	Vertical	Pass

8-DPSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

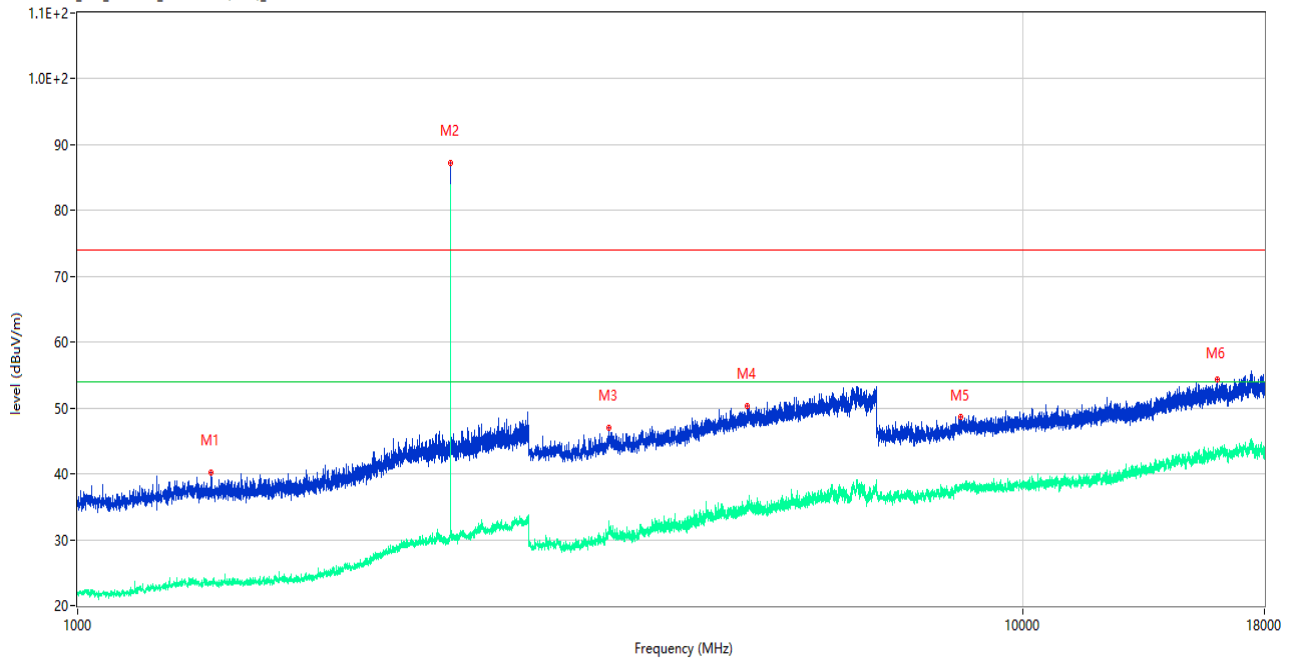
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1137.000	21.75	-18.08	54.0	-32.25	AV	283.00	150	Horizontal	Pass
1	1137.000	38.31	-18.08	74.0	-35.69	Peak	283.00	150	Horizontal	Pass
2**	2441.000	95.29	-12.60	54.0	41.29	AV	264.00	150	Horizontal	N/A
2	2441.000	100.57	-12.60	74.0	26.57	Peak	264.00	150	Horizontal	N/A
3**	3750.000	30.99	-6.88	54.0	-23.01	AV	15.00	150	Horizontal	Pass
3	3750.000	47.23	-6.88	74.0	-26.77	Peak	15.00	150	Horizontal	Pass
4**	5266.000	33.57	-3.20	54.0	-20.43	AV	266.00	150	Horizontal	Pass
4	5266.000	50.26	-3.20	74.0	-23.74	Peak	266.00	150	Horizontal	Pass
5**	7744.625	36.67	-2.62	54.0	-17.33	AV	235.00	150	Horizontal	Pass
5	7744.625	48.03	-2.62	74.0	-25.97	Peak	235.00	150	Horizontal	Pass
6**	14932.688	41.94	0.97	54.0	-12.06	AV	9.00	150	Horizontal	Pass
6	14932.688	54.28	0.97	74.0	-19.72	Peak	9.00	150	Horizontal	Pass

8-DPSK HIGH CHANNEL 1 GHz to 18 GHz, ANT V

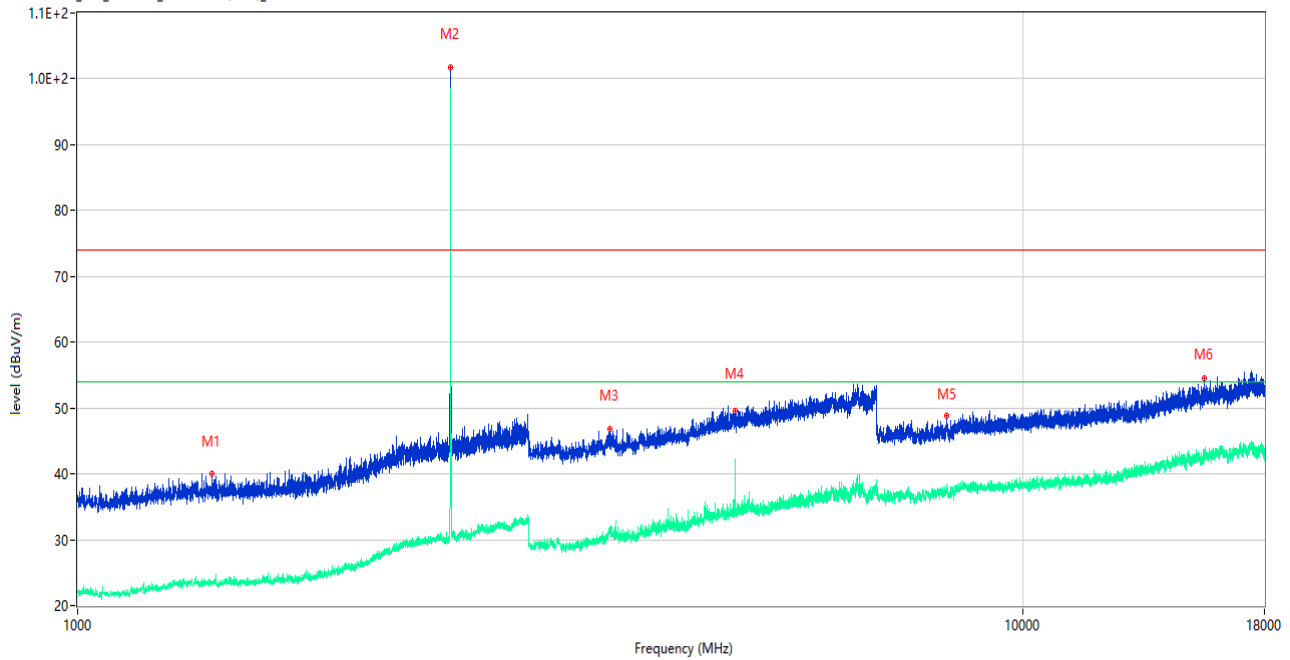
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1383.000	23.59	-17.17	54.0	-30.41	AV	176.00	150	Vertical	Pass
1	1383.000	40.19	-17.17	74.0	-33.81	Peak	176.00	150	Vertical	Pass
2**	2480.000	82.14	-11.99	54.0	28.14	AV	229.00	150	Vertical	N/A
2	2480.000	87.16	-11.99	74.0	13.16	Peak	229.00	150	Vertical	N/A
3**	3643.000	31.82	-6.59	54.0	-22.18	AV	282.00	150	Vertical	Pass
3	3643.000	46.93	-6.59	74.0	-27.07	Peak	282.00	150	Vertical	Pass
4**	5109.000	35.15	-2.29	54.0	-18.85	AV	314.00	150	Vertical	Pass
4	5109.000	50.30	-2.29	74.0	-23.70	Peak	314.00	150	Vertical	Pass
5**	8589.875	38.36	-1.60	54.0	-15.64	AV	189.00	150	Vertical	Pass
5	8589.875	48.60	-1.60	74.0	-25.40	Peak	189.00	150	Vertical	Pass
6**	16064.062	43.36	1.95	54.0	-10.64	AV	0.00	150	Vertical	Pass
6	16064.062	54.33	1.95	74.0	-19.67	Peak	0.00	150	Vertical	Pass

8-DPSK HIGH CHANNEL 1 GHz to 18 GHz, ANT H

RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz

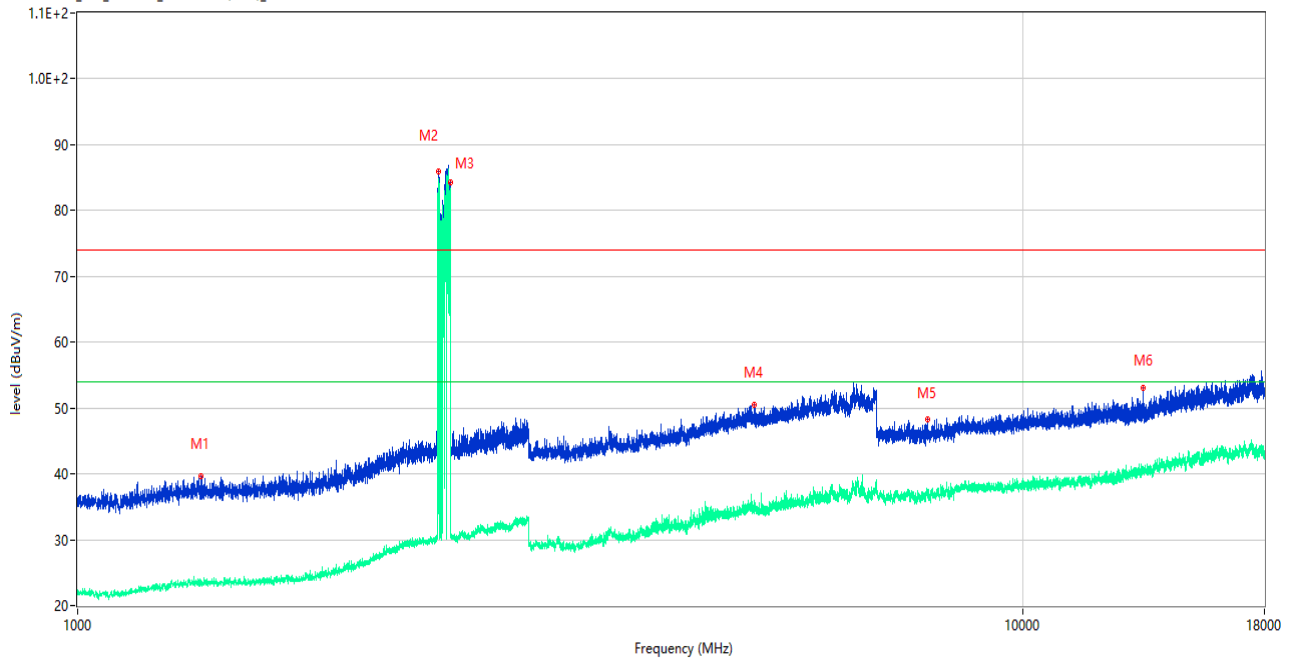


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1386.000	23.47	-17.21	54.0	-30.53	AV	174.00	150	Horizontal	Pass
1	1386.000	39.99	-17.21	74.0	-34.01	Peak	174.00	150	Horizontal	Pass
2**	2480.000	96.48	-11.99	54.0	42.48	AV	261.00	150	Horizontal	N/A
2	2480.000	101.83	-11.99	74.0	27.83	Peak	261.00	150	Horizontal	N/A
3**	3652.000	31.67	-6.35	54.0	-22.33	AV	247.00	150	Horizontal	Pass
3	3652.000	46.89	-6.35	74.0	-27.11	Peak	247.00	150	Horizontal	Pass
4**	4960.000	37.12	-3.24	54.0	-16.88	AV	287.00	150	Horizontal	Pass
4	4960.000	49.61	-3.24	74.0	-24.39	Peak	287.00	150	Horizontal	Pass
5**	8308.125	38.35	-0.68	54.0	-15.65	AV	18.00	150	Horizontal	Pass
5	8308.125	48.83	-0.68	74.0	-25.17	Peak	18.00	150	Horizontal	Pass
6**	15564.000	43.11	2.53	54.0	-10.89	AV	182.00	150	Horizontal	Pass
6	15564.000	54.52	2.53	74.0	-19.48	Peak	182.00	150	Horizontal	Pass

Hopping Mode:

GFSK MODE 1 GHz to 18 GHz, ANT V

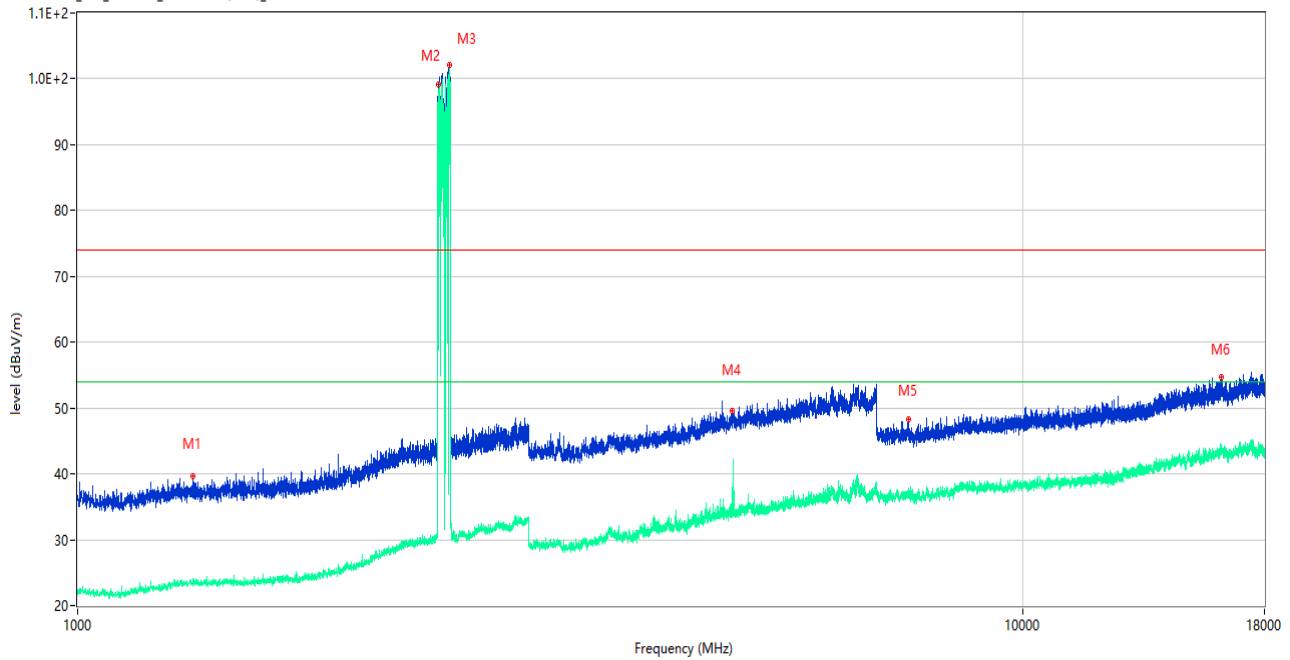
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1351.500	23.56	-17.38	54.0	-30.44	AV	142.00	150	Vertical	Pass
1	1351.500	39.62	-17.38	74.0	-34.38	Peak	142.00	150	Vertical	Pass
2**	2406.000	75.39	-11.91	54.0	21.39	AV	170.00	150	Vertical	N/A
2	2406.000	86.00	-11.91	74.0	12.00	Peak	170.00	150	Vertical	N/A
3**	2479.000	78.77	-11.98	54.0	24.77	AV	252.00	150	Vertical	N/A
3	2479.000	84.26	-11.98	74.0	10.26	Peak	252.00	150	Vertical	N/A
4**	5194.000	34.43	-2.93	54.0	-19.57	AV	201.00	150	Vertical	Pass
4	5194.000	50.44	-2.93	74.0	-23.56	Peak	201.00	150	Vertical	Pass
5**	7928.625	37.30	-1.74	54.0	-16.70	AV	189.00	150	Vertical	Pass
5	7928.625	48.30	-1.74	74.0	-25.70	Peak	189.00	150	Vertical	Pass
6**	13398.375	39.95	1.16	54.0	-14.05	AV	15.00	150	Vertical	Pass
6	13398.375	52.98	1.16	74.0	-21.02	Peak	15.00	150	Vertical	Pass

GFSK MODE 1 GHz to 18 GHz, ANT H

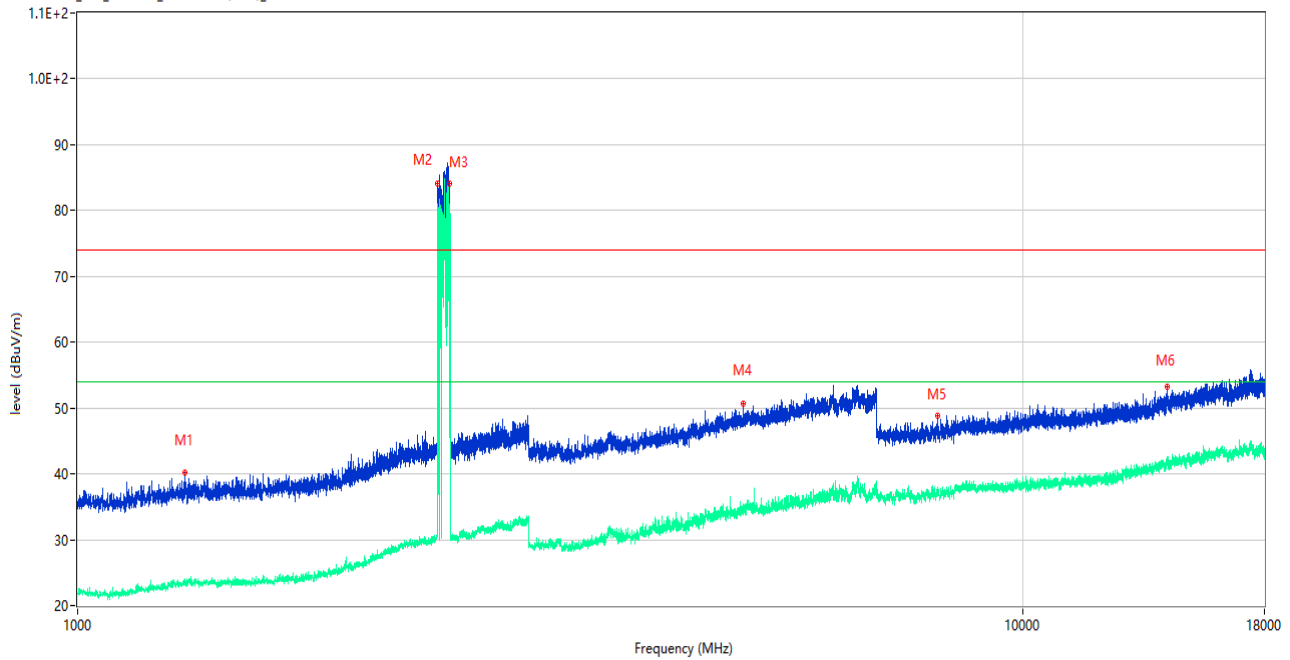
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1322.500	23.03	-17.24	54.0	-30.97	AV	273.00	150	Horizontal	Pass
1	1322.500	39.61	-17.24	74.0	-34.39	Peak	273.00	150	Horizontal	Pass
2**	2408.000	94.24	-11.85	54.0	40.24	AV	52.00	150	Horizontal	N/A
2	2408.000	99.24	-11.85	74.0	25.24	Peak	52.00	150	Horizontal	N/A
3**	2471.000	97.01	-12.07	54.0	43.01	AV	255.00	150	Horizontal	N/A
3	2471.000	102.03	-12.07	74.0	28.03	Peak	255.00	150	Horizontal	N/A
4**	4919.000	34.66	-2.55	54.0	-19.34	AV	117.00	150	Horizontal	Pass
4	4919.000	49.63	-2.55	74.0	-24.37	Peak	117.00	150	Horizontal	Pass
5**	7572.125	37.81	-2.49	54.0	-16.19	AV	85.00	150	Horizontal	Pass
5	7572.125	48.22	-2.49	74.0	-25.78	Peak	85.00	150	Horizontal	Pass
6**	16225.500	43.78	2.20	54.0	-10.22	AV	91.00	150	Horizontal	Pass
6	16225.500	54.65	2.20	74.0	-19.35	Peak	91.00	150	Horizontal	Pass

8-DPSK MODE 1 GHz to 18 GHz, ANT V

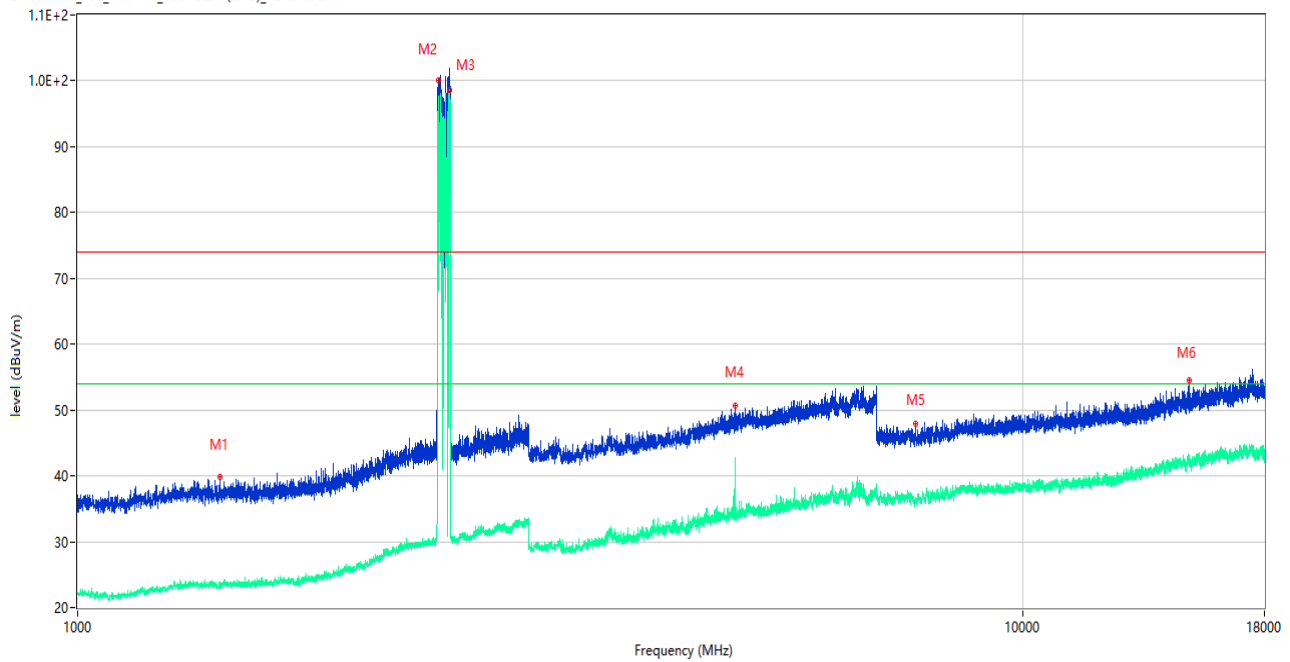
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1298.500	24.06	-17.01	54.0	-29.94	AV	0.00	150	Vertical	Pass
1	1298.500	40.18	-17.01	74.0	-33.82	Peak	0.00	150	Vertical	Pass
2**	2404.000	78.07	-11.84	54.0	24.07	AV	74.00	150	Vertical	N/A
2	2404.000	84.08	-11.84	74.0	10.08	Peak	74.00	150	Vertical	N/A
3**	2476.000	78.39	-12.11	54.0	24.39	AV	120.00	150	Vertical	N/A
3	2476.000	84.02	-12.11	74.0	10.02	Peak	120.00	150	Vertical	N/A
4**	5063.000	34.46	-2.89	54.0	-19.54	AV	45.00	150	Vertical	Pass
4	5063.000	50.76	-2.89	74.0	-23.24	Peak	45.00	150	Vertical	Pass
5**	8122.687	37.57	-1.80	54.0	-16.43	AV	172.00	150	Vertical	Pass
5	8122.687	48.89	-1.80	74.0	-25.11	Peak	172.00	150	Vertical	Pass
6**	14199.000	41.85	2.41	54.0	-12.15	AV	196.00	150	Vertical	Pass
6	14199.000	53.19	2.41	74.0	-20.81	Peak	196.00	150	Vertical	Pass

8-DPSK MODE 1 GHz to 18 GHz, ANT H

RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz

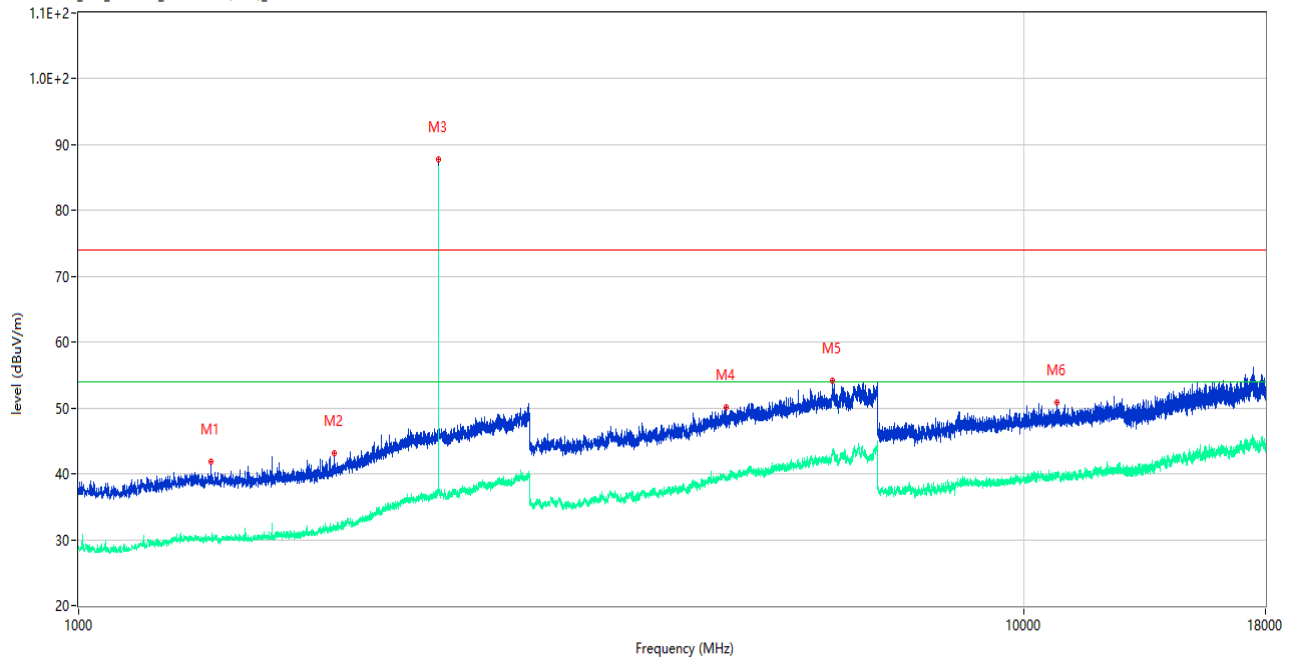


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1413.000	23.66	-17.16	54.0	-30.34	AV	355.00	150	Horizontal	Pass
1	1413.000	39.76	-17.16	74.0	-34.24	Peak	355.00	150	Horizontal	Pass
2**	2408.000	94.54	-11.85	54.0	40.54	AV	222.00	150	Horizontal	N/A
2	2408.000	100.01	-11.85	74.0	26.01	Peak	222.00	150	Horizontal	N/A
3**	2476.500	98.55	-12.07	54.0	44.55	AV	263.00	150	Horizontal	N/A
3	2476.500	101.60	-12.07	74.0	27.60	Peak	263.00	150	Horizontal	N/A
4**	4960.000	33.89	-3.24	54.0	-20.11	AV	289.00	150	Horizontal	Pass
4	4960.000	50.76	-3.24	74.0	-23.24	Peak	289.00	150	Horizontal	Pass
5**	7697.187	35.93	-2.80	54.0	-18.07	AV	200.00	150	Horizontal	Pass
5	7697.187	47.96	-2.80	74.0	-26.04	Peak	200.00	150	Horizontal	Pass
6**	14981.250	42.75	1.86	54.0	-11.25	AV	19.00	150	Horizontal	Pass
6	14981.250	54.49	1.86	74.0	-19.51	Peak	19.00	150	Horizontal	Pass

11.5 inches

GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT V

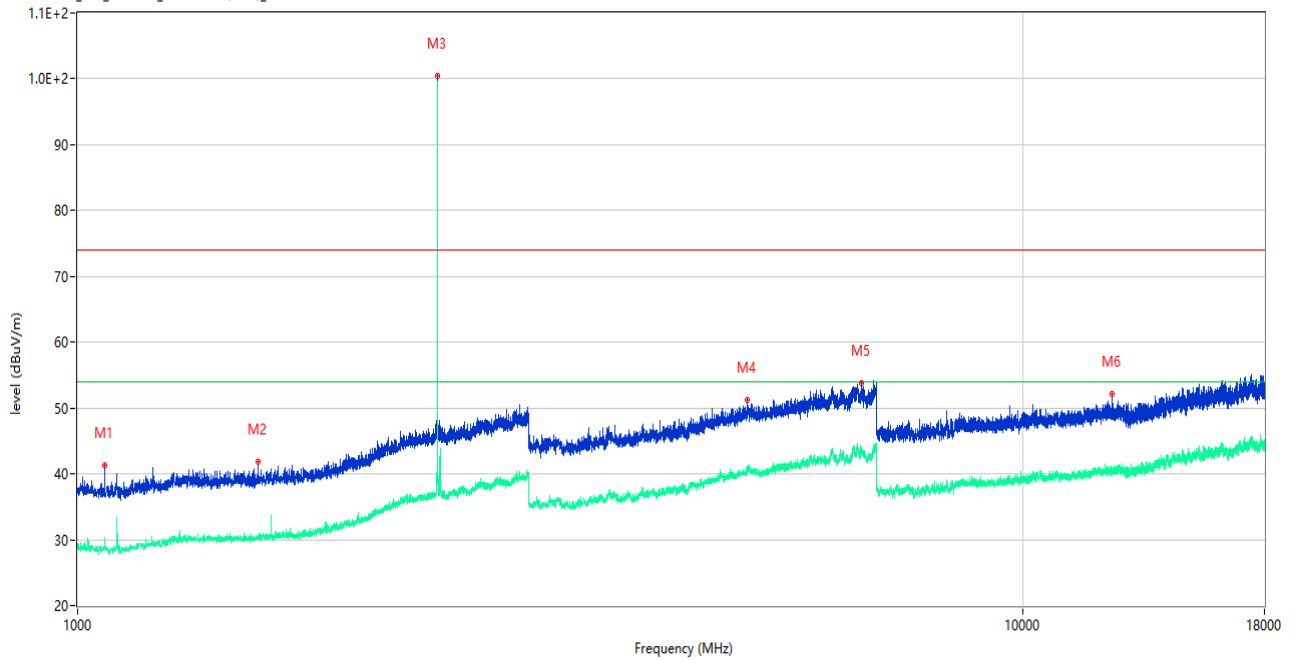
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1380.500	30.08	-17.30	54.0	-23.92	AV	130.00	150	Vertical	Pass
1	1380.500	41.89	-17.30	74.0	-32.11	Peak	130.00	150	Vertical	Pass
2**	1864.500	31.63	-16.06	54.0	-22.37	AV	273.00	150	Vertical	Pass
2	1864.500	43.13	-16.06	74.0	-30.87	Peak	273.00	150	Vertical	Pass
3**	2402.000	82.43	-11.82	54.0	28.43	AV	25.00	150	Vertical	N/A
3	2402.000	87.72	-11.82	74.0	13.72	Peak	25.00	150	Vertical	N/A
4**	4835.000	39.43	-3.16	54.0	-14.57	AV	272.00	150	Vertical	Pass
4	4835.000	50.03	-3.16	74.0	-23.97	Peak	272.00	150	Vertical	Pass
5**	6276.000	43.16	0.01	54.0	-10.84	AV	197.00	150	Vertical	Pass
5	6276.000	54.11	0.01	74.0	-19.89	Peak	197.00	150	Vertical	Pass
6**	10841.000	39.74	0.99	54.0	-14.26	AV	0.00	150	Vertical	Pass
6	10841.000	50.83	0.99	74.0	-23.17	Peak	0.00	150	Vertical	Pass

GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT H

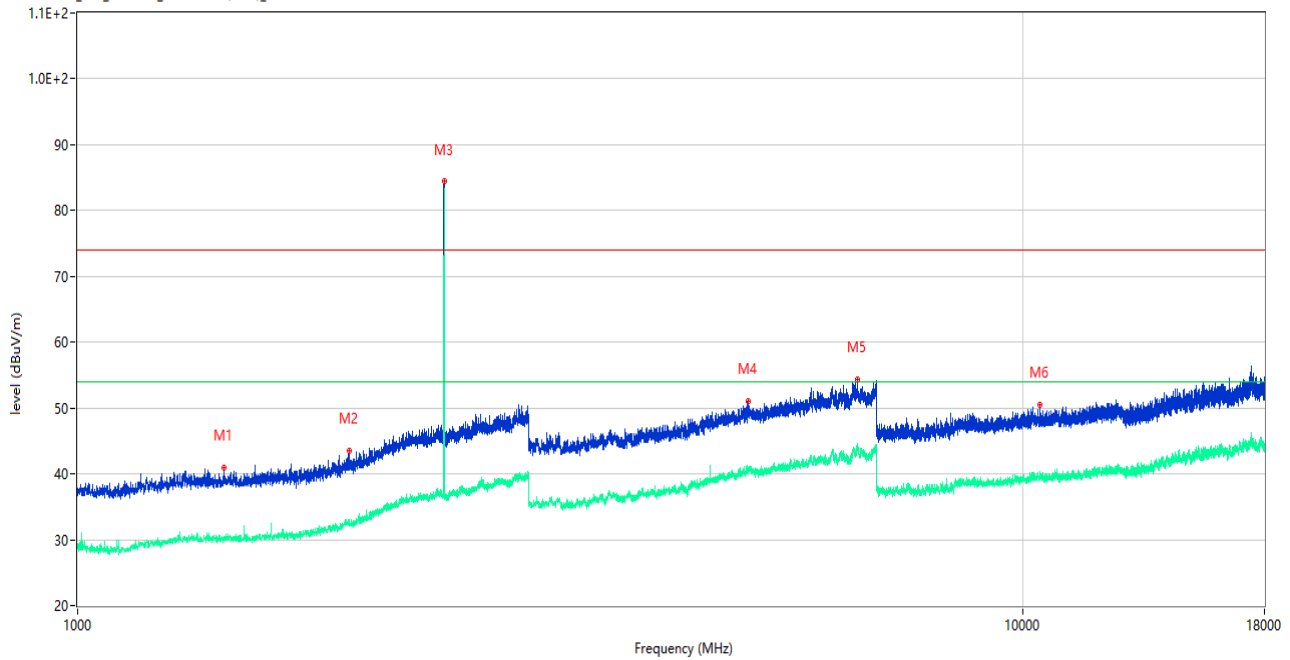
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1067.500	28.78	-18.17	54.0	-25.22	AV	0.00	150	Horizontal	Pass
1	1067.500	41.28	-18.17	74.0	-32.72	Peak	0.00	150	Horizontal	Pass
2**	1552.000	30.57	-17.25	54.0	-23.43	AV	45.00	150	Horizontal	Pass
2	1552.000	41.78	-17.25	74.0	-32.22	Peak	45.00	150	Horizontal	Pass
3**	2402.000	95.39	-11.82	54.0	41.39	AV	107.00	150	Horizontal	N/A
3	2402.000	100.36	-11.82	74.0	26.36	Peak	107.00	150	Horizontal	N/A
4**	5105.000	40.77	-2.37	54.0	-13.23	AV	84.00	150	Horizontal	Pass
4	5105.000	51.14	-2.37	74.0	-22.86	Peak	84.00	150	Horizontal	Pass
5**	6740.000	43.72	0.40	54.0	-10.28	AV	136.00	150	Horizontal	Pass
5	6740.000	53.83	0.40	74.0	-20.17	Peak	136.00	150	Horizontal	Pass
6**	12433.750	41.18	1.83	54.0	-12.82	AV	135.00	150	Horizontal	Pass
6	12433.750	52.18	1.83	74.0	-21.82	Peak	135.00	150	Horizontal	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

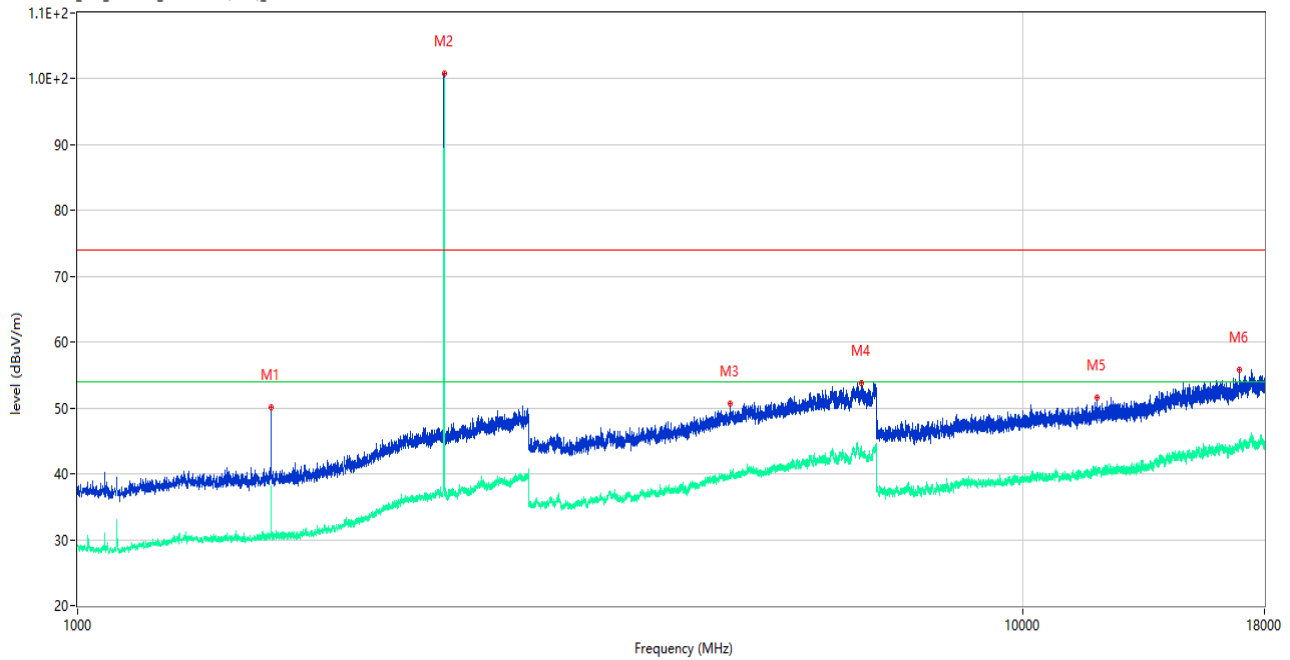
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1429.500	30.35	-17.21	54.0	-23.65	AV	169.00	150	Vertical	Pass
1	1429.500	40.98	-17.21	74.0	-33.02	Peak	169.00	150	Vertical	Pass
2**	1937.500	32.60	-15.49	54.0	-21.40	AV	200.00	150	Vertical	Pass
2	1937.500	43.44	-15.49	74.0	-30.56	Peak	200.00	150	Vertical	Pass
3**	2441.000	79.56	-12.60	54.0	25.56	AV	27.00	150	Vertical	N/A
3	2441.000	84.40	-12.60	74.0	10.40	Peak	27.00	150	Vertical	N/A
4**	5125.000	40.38	-2.39	54.0	-13.62	AV	287.00	150	Vertical	Pass
4	5125.000	51.04	-2.39	74.0	-22.96	Peak	287.00	150	Vertical	Pass
5**	6675.000	44.19	0.31	54.0	-9.81	AV	339.00	150	Vertical	Pass
5	6675.000	54.37	0.31	74.0	-19.63	Peak	339.00	150	Vertical	Pass
6**	10415.500	40.29	0.56	54.0	-13.71	AV	281.00	150	Vertical	Pass
6	10415.500	50.42	0.56	74.0	-23.58	Peak	281.00	150	Vertical	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

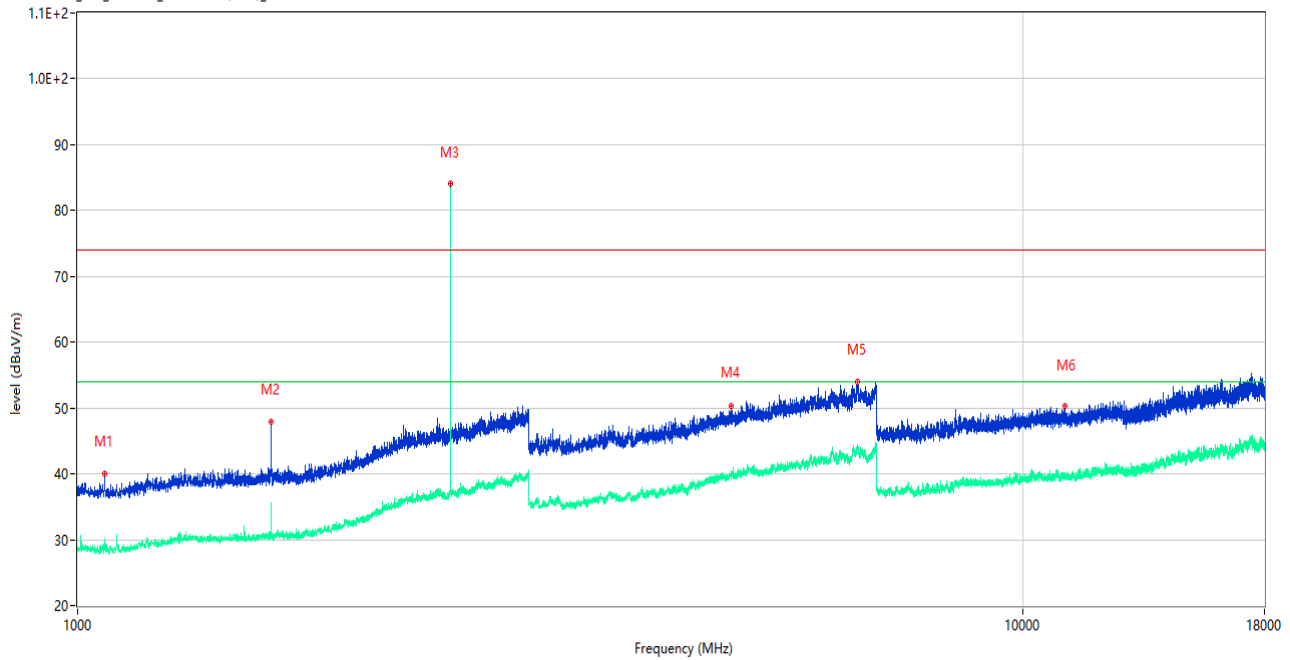
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1602.000	35.93	-17.32	54.0	-18.07	AV	185.00	150	Horizontal	Pass
1	1602.000	50.04	-17.32	74.0	-23.96	Peak	185.00	150	Horizontal	Pass
2**	2441.000	95.87	-12.60	54.0	41.87	AV	59.00	150	Horizontal	N/A
2	2441.000	100.84	-12.60	74.0	26.84	Peak	59.00	150	Horizontal	N/A
3**	4897.000	39.86	-2.77	54.0	-14.14	AV	0.00	150	Horizontal	Pass
3	4897.000	50.69	-2.77	74.0	-23.31	Peak	0.00	150	Horizontal	Pass
4**	6744.000	43.60	0.32	54.0	-10.40	AV	166.00	150	Horizontal	Pass
4	6744.000	53.80	0.32	74.0	-20.20	Peak	166.00	150	Horizontal	Pass
5**	11978.063	40.02	1.07	54.0	-13.98	AV	1.00	150	Horizontal	Pass
5	11978.063	51.54	1.07	74.0	-22.46	Peak	1.00	150	Horizontal	Pass
6**	16935.562	44.94	2.72	54.0	-9.06	AV	110.00	150	Horizontal	Pass
6	16935.562	55.73	2.72	74.0	-18.27	Peak	110.00	150	Horizontal	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT V

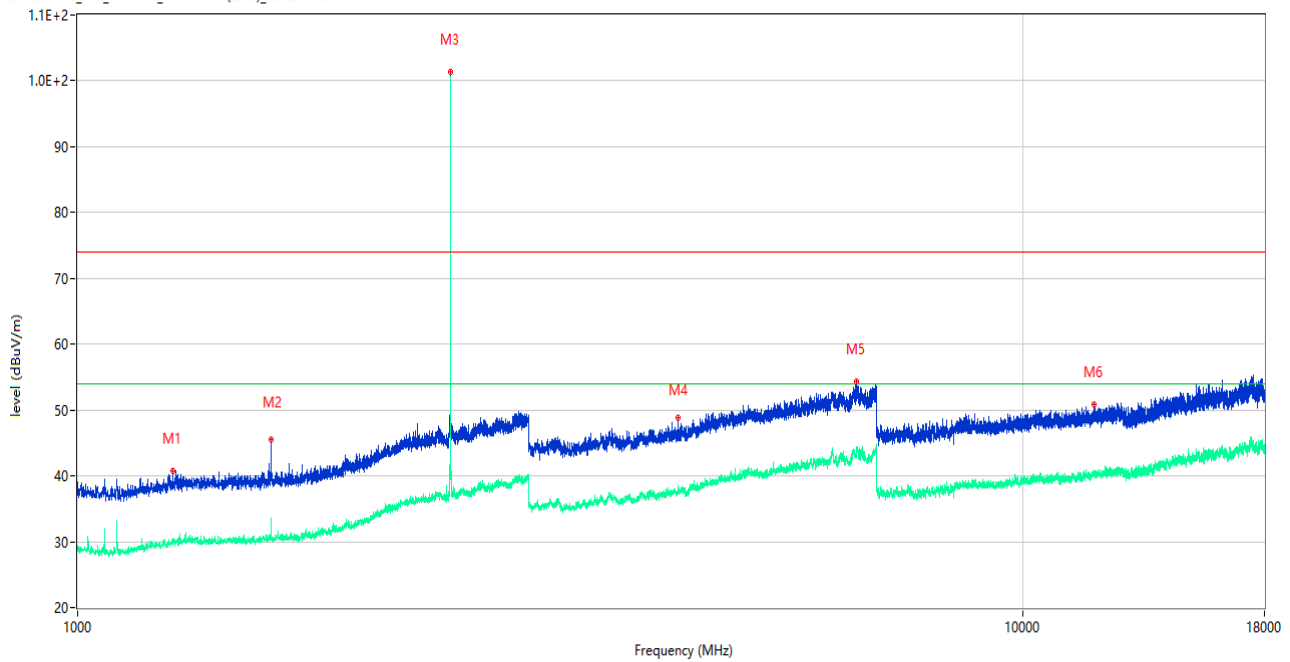
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1068.000	29.45	-18.12	54.0	-24.55	AV	322.00	150	Vertical	Pass
1	1068.000	40.05	-18.12	74.0	-33.95	Peak	322.00	150	Vertical	Pass
2**	1602.000	34.42	-17.32	54.0	-19.58	AV	201.00	150	Vertical	Pass
2	1602.000	47.86	-17.32	74.0	-26.14	Peak	201.00	150	Vertical	Pass
3**	2480.000	79.35	-11.99	54.0	25.35	AV	214.00	150	Vertical	N/A
3	2480.000	84.19	-11.99	74.0	10.19	Peak	214.00	150	Vertical	N/A
4**	4912.000	39.89	-2.51	54.0	-14.11	AV	169.00	150	Vertical	Pass
4	4912.000	50.26	-2.51	74.0	-23.74	Peak	169.00	150	Vertical	Pass
5**	6680.000	43.90	0.17	54.0	-10.10	AV	196.00	150	Vertical	Pass
5	6680.000	54.03	0.17	74.0	-19.97	Peak	196.00	150	Vertical	Pass
6**	11083.938	39.63	-1.00	54.0	-14.37	AV	53.00	150	Vertical	Pass
6	11083.938	50.27	-1.00	74.0	-23.73	Peak	53.00	150	Vertical	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT H

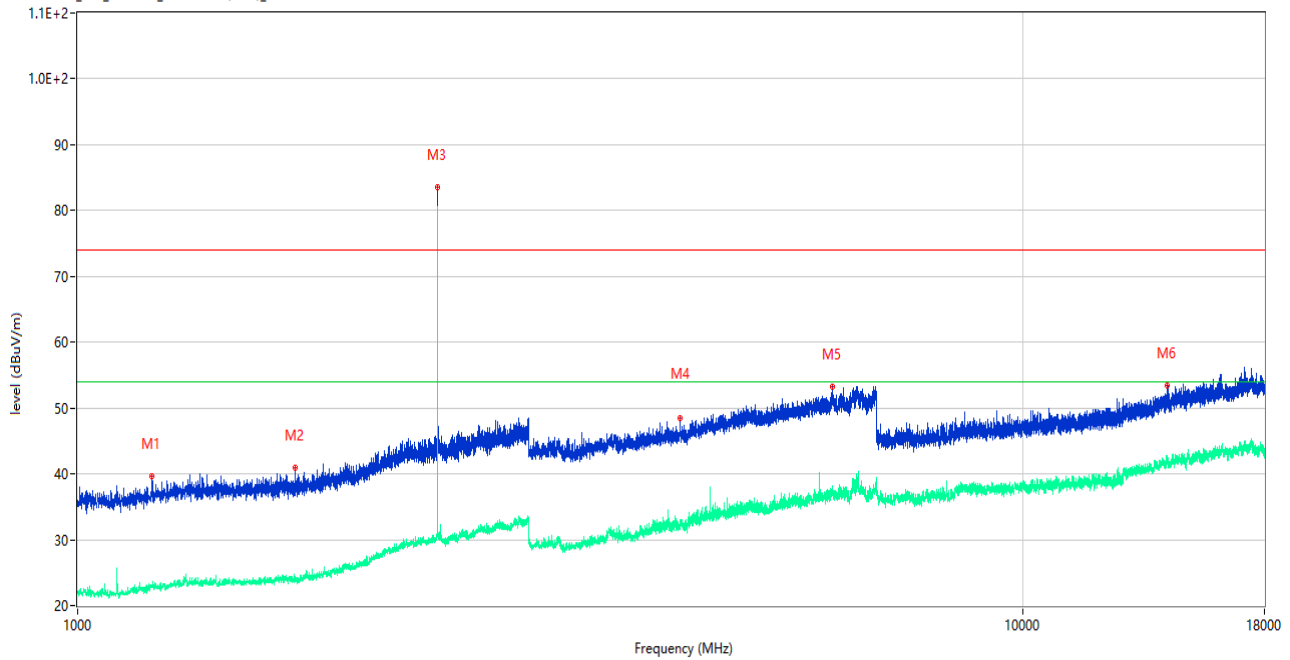
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1260.500	29.84	-17.45	54.0	-24.16	AV	208.00	150	Horizontal	Pass
1	1260.500	40.79	-17.45	74.0	-33.21	Peak	208.00	150	Horizontal	Pass
2**	1602.000	33.20	-17.32	54.0	-20.80	AV	183.00	150	Horizontal	Pass
2	1602.000	45.61	-17.32	74.0	-28.39	Peak	183.00	150	Horizontal	Pass
3**	2480.000	96.70	-11.99	54.0	42.70	AV	63.00	150	Horizontal	N/A
3	2480.000	101.37	-11.99	74.0	27.37	Peak	63.00	150	Horizontal	N/A
4**	4313.000	37.87	-4.95	54.0	-16.13	AV	0.00	150	Horizontal	Pass
4	4313.000	48.87	-4.95	74.0	-25.13	Peak	0.00	150	Horizontal	Pass
5**	6666.000	43.53	-0.03	54.0	-10.47	AV	90.00	150	Horizontal	Pass
5	6666.000	54.33	-0.03	74.0	-19.67	Peak	90.00	150	Horizontal	Pass
6**	11893.250	40.88	2.15	54.0	-13.12	AV	2.00	150	Horizontal	Pass
6	11893.250	50.80	2.15	74.0	-23.20	Peak	2.00	150	Horizontal	Pass

8-DPSK LOW CHANNEL 1 GHz to 18 GHz, ANT V

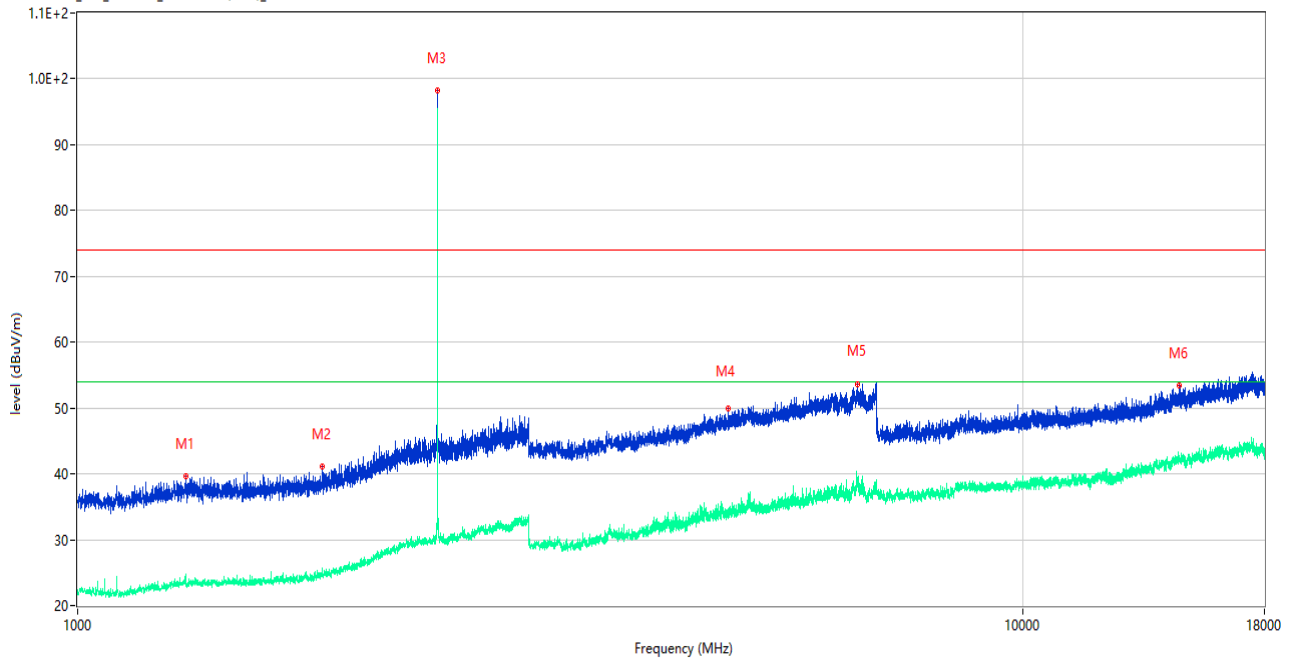
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1198.000	22.77	-17.50	54.0	-31.23	AV	14.00	150	Vertical	Pass
1	1198.000	39.65	-17.50	74.0	-34.35	Peak	14.00	150	Vertical	Pass
2**	1700.000	23.89	-17.15	54.0	-30.11	AV	30.00	150	Vertical	Pass
2	1700.000	40.88	-17.15	74.0	-33.12	Peak	30.00	150	Vertical	Pass
3**	2402.000	77.98	-11.82	54.0	23.98	AV	17.00	150	Vertical	N/A
3	2402.000	83.59	-11.82	74.0	9.59	Peak	17.00	150	Vertical	N/A
4**	4333.000	31.86	-4.38	54.0	-22.14	AV	338.00	150	Vertical	Pass
4	4333.000	48.44	-4.38	74.0	-25.56	Peak	338.00	150	Vertical	Pass
5**	6286.000	37.83	0.37	54.0	-16.17	AV	195.00	150	Vertical	Pass
5	6286.000	53.21	0.37	74.0	-20.79	Peak	195.00	150	Vertical	Pass
6**	14216.063	41.97	2.59	54.0	-12.03	AV	44.00	150	Vertical	Pass
6	14216.063	53.50	2.59	74.0	-20.50	Peak	44.00	150	Vertical	Pass

8-DPSK LOW CHANNEL 1 GHz to 18 GHz, ANT H

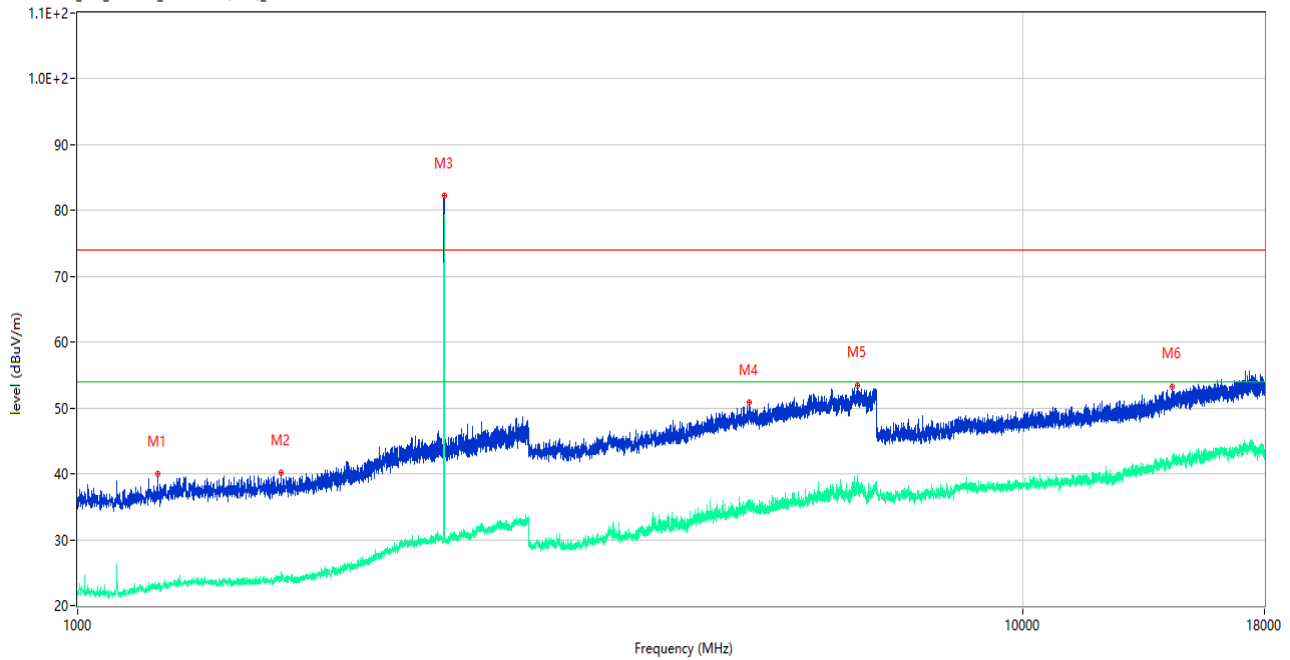
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1301.500	23.56	-17.10	54.0	-30.44	AV	86.00	150	Horizontal	Pass
1	1301.500	39.59	-17.10	74.0	-34.41	Peak	86.00	150	Horizontal	Pass
2**	1815.000	24.55	-16.36	54.0	-29.45	AV	55.00	150	Horizontal	Pass
2	1815.000	41.09	-16.36	74.0	-32.91	Peak	55.00	150	Horizontal	Pass
3**	2402.000	93.02	-11.82	54.0	39.02	AV	71.00	150	Horizontal	N/A
3	2402.000	98.27	-11.82	74.0	24.27	Peak	71.00	150	Horizontal	N/A
4**	4878.000	33.71	-3.11	54.0	-20.29	AV	259.00	150	Horizontal	Pass
4	4878.000	49.94	-3.11	74.0	-24.06	Peak	259.00	150	Horizontal	Pass
5**	6676.000	38.97	0.41	54.0	-15.03	AV	167.00	150	Horizontal	Pass
5	6676.000	53.62	0.41	74.0	-20.38	Peak	167.00	150	Horizontal	Pass
6**	14636.063	42.31	1.16	54.0	-11.69	AV	127.00	150	Horizontal	Pass
6	14636.063	53.52	1.16	74.0	-20.48	Peak	127.00	150	Horizontal	Pass

8-DPSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

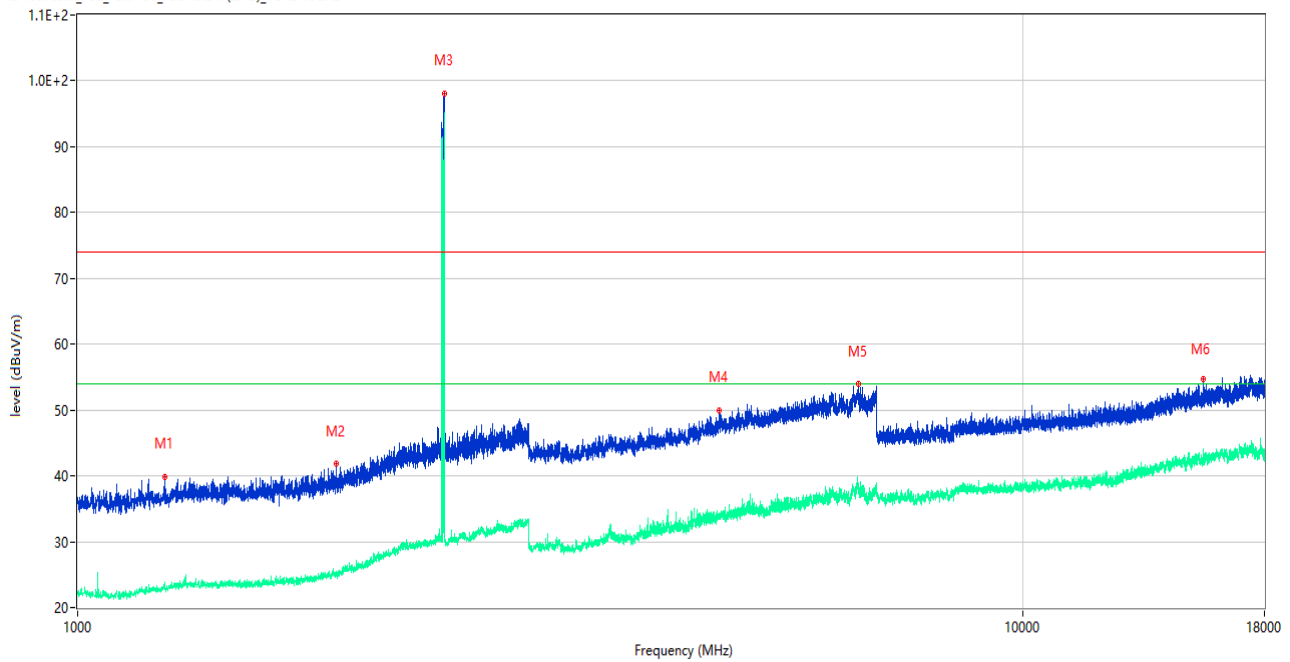
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1215.000	22.74	-17.62	54.0	-31.26	AV	108.00	150	Vertical	Pass
1	1215.000	39.96	-17.62	74.0	-34.04	Peak	108.00	150	Vertical	Pass
2**	1641.500	24.55	-17.15	54.0	-29.45	AV	283.00	150	Vertical	Pass
2	1641.500	40.13	-17.15	74.0	-33.87	Peak	283.00	150	Vertical	Pass
3**	2441.000	76.46	-12.60	54.0	22.46	AV	67.00	150	Vertical	N/A
3	2441.000	82.19	-12.60	74.0	8.19	Peak	67.00	150	Vertical	N/A
4**	5135.000	35.43	-2.52	54.0	-18.57	AV	83.00	150	Vertical	Pass
4	5135.000	50.93	-2.52	74.0	-23.07	Peak	83.00	150	Vertical	Pass
5**	6677.000	39.71	0.46	54.0	-14.29	AV	350.00	150	Vertical	Pass
5	6677.000	53.50	0.46	74.0	-20.50	Peak	350.00	150	Vertical	Pass
6**	14374.875	41.88	2.13	54.0	-12.12	AV	143.00	150	Vertical	Pass
6	14374.875	53.31	2.13	74.0	-20.69	Peak	143.00	150	Vertical	Pass

8-DPSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

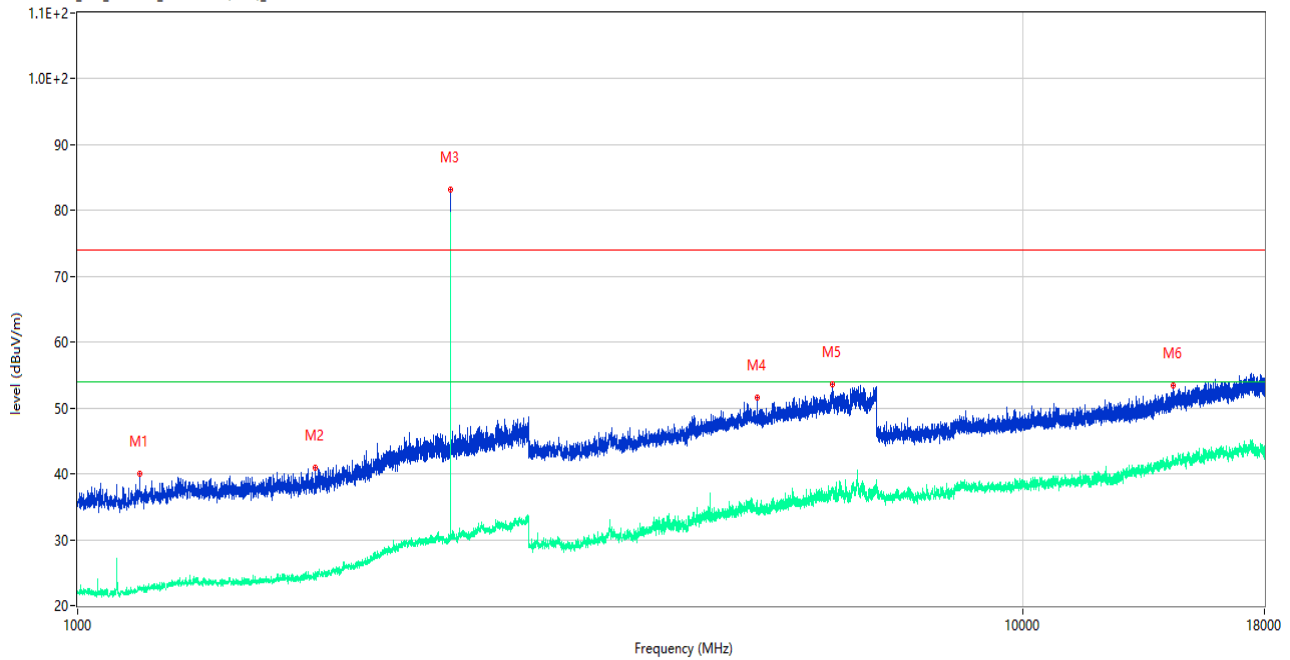
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1236.500	23.00	-17.70	54.0	-31.00	AV	203.00	150	Horizontal	Pass
1	1236.500	39.90	-17.70	74.0	-34.10	Peak	203.00	150	Horizontal	Pass
2**	1875.000	25.52	-16.09	54.0	-28.48	AV	256.00	150	Horizontal	Pass
2	1875.000	41.89	-16.09	74.0	-32.11	Peak	256.00	150	Horizontal	Pass
3**	2441.000	92.36	-12.60	54.0	38.36	AV	72.00	150	Horizontal	N/A
3	2441.000	98.14	-12.60	74.0	24.14	Peak	72.00	150	Horizontal	N/A
4**	4771.000	33.32	-2.84	54.0	-20.68	AV	247.00	150	Horizontal	Pass
4	4771.000	49.87	-2.84	74.0	-24.13	Peak	247.00	150	Horizontal	Pass
5**	6694.000	37.95	-0.02	54.0	-16.05	AV	290.00	150	Horizontal	Pass
5	6694.000	54.01	-0.02	74.0	-19.99	Peak	290.00	150	Horizontal	Pass
6**	15522.000	43.19	2.50	54.0	-10.81	AV	297.00	150	Horizontal	Pass
6	15522.000	54.71	2.50	74.0	-19.29	Peak	297.00	150	Horizontal	Pass

8-DPSK HIGH CHANNEL 1 GHz to 18 GHz, ANT V

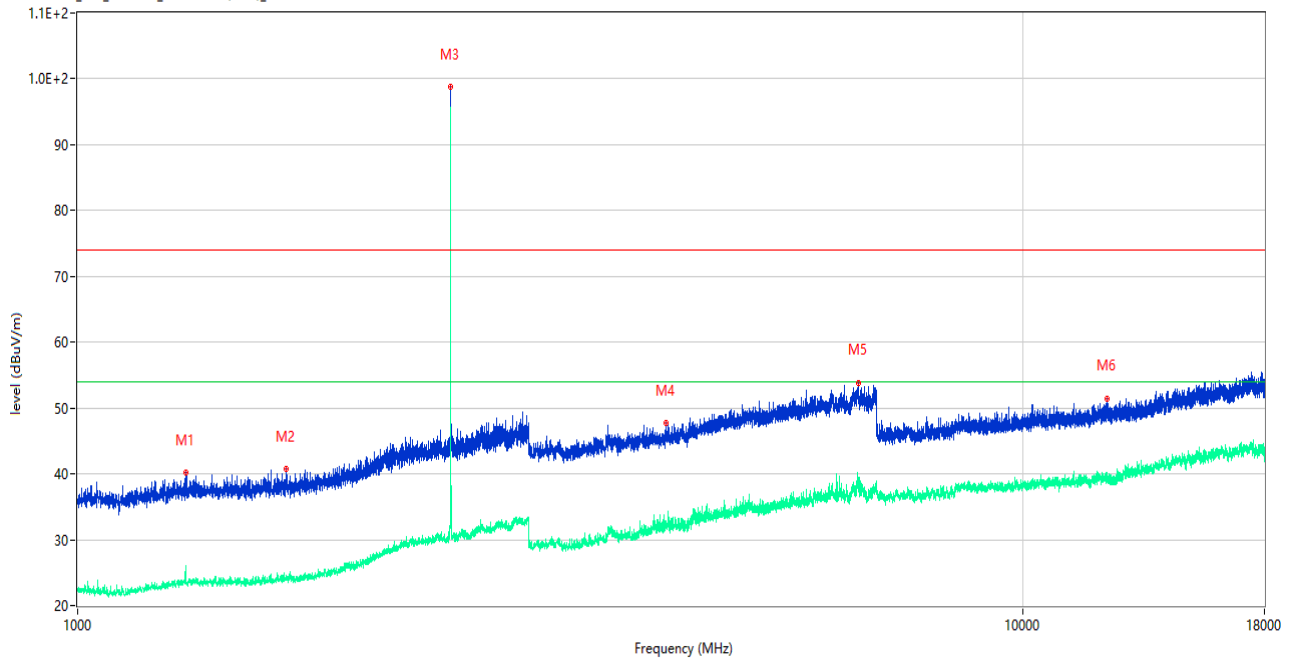
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1162.500	22.44	-17.74	54.0	-31.56	AV	49.00	150	Vertical	Pass
1	1162.500	39.93	-17.74	74.0	-34.07	Peak	49.00	150	Vertical	Pass
2**	1782.000	24.57	-16.78	54.0	-29.43	AV	203.00	150	Vertical	Pass
2	1782.000	40.90	-16.78	74.0	-33.10	Peak	203.00	150	Vertical	Pass
3**	2480.000	77.88	-11.99	54.0	23.88	AV	352.00	150	Vertical	N/A
3	2480.000	83.11	-11.99	74.0	9.11	Peak	352.00	150	Vertical	N/A
4**	5233.000	35.23	-2.78	54.0	-18.77	AV	45.00	150	Vertical	Pass
4	5233.000	51.60	-2.78	74.0	-22.40	Peak	45.00	150	Vertical	Pass
5**	6283.000	38.00	0.39	54.0	-16.00	AV	108.00	150	Vertical	Pass
5	6283.000	53.61	0.39	74.0	-20.39	Peak	108.00	150	Vertical	Pass
6**	14422.125	42.03	2.51	54.0	-11.97	AV	250.00	150	Vertical	Pass
6	14422.125	53.43	2.51	74.0	-20.57	Peak	250.00	150	Vertical	Pass

8-DPSK HIGH CHANNEL 1 GHz to 18 GHz, ANT H

RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz

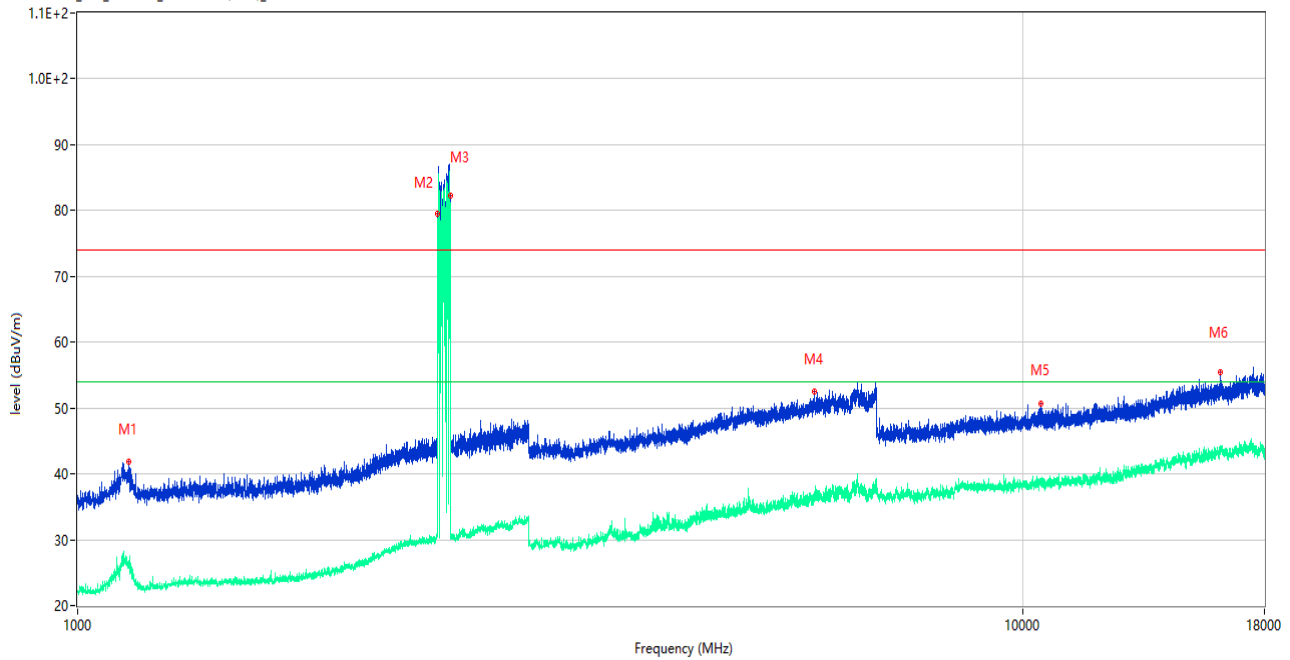


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1300.500	25.97	-17.03	54.0	-28.03	AV	143.00	150	Horizontal	Pass
1	1300.500	40.18	-17.03	74.0	-33.82	Peak	143.00	150	Horizontal	Pass
2**	1662.500	23.95	-17.02	54.0	-30.05	AV	148.00	150	Horizontal	Pass
2	1662.500	40.67	-17.02	74.0	-33.33	Peak	148.00	150	Horizontal	Pass
3**	2480.000	92.68	-11.99	54.0	38.68	AV	70.00	150	Horizontal	N/A
3	2480.000	98.74	-11.99	74.0	24.74	Peak	70.00	150	Horizontal	N/A
4**	4195.000	31.90	-4.84	54.0	-22.10	AV	358.00	150	Horizontal	Pass
4	4195.000	47.82	-4.84	74.0	-26.18	Peak	358.00	150	Horizontal	Pass
5**	6699.000	37.83	-0.39	54.0	-16.17	AV	16.00	150	Horizontal	Pass
5	6699.000	53.88	-0.39	74.0	-20.12	Peak	16.00	150	Horizontal	Pass
6**	12284.250	39.01	2.08	54.0	-14.99	AV	288.00	150	Horizontal	Pass
6	12284.250	51.34	2.08	74.0	-22.66	Peak	288.00	150	Horizontal	Pass

Hopping Mode:

GFSK MODE 1 GHz to 18 GHz, ANT V

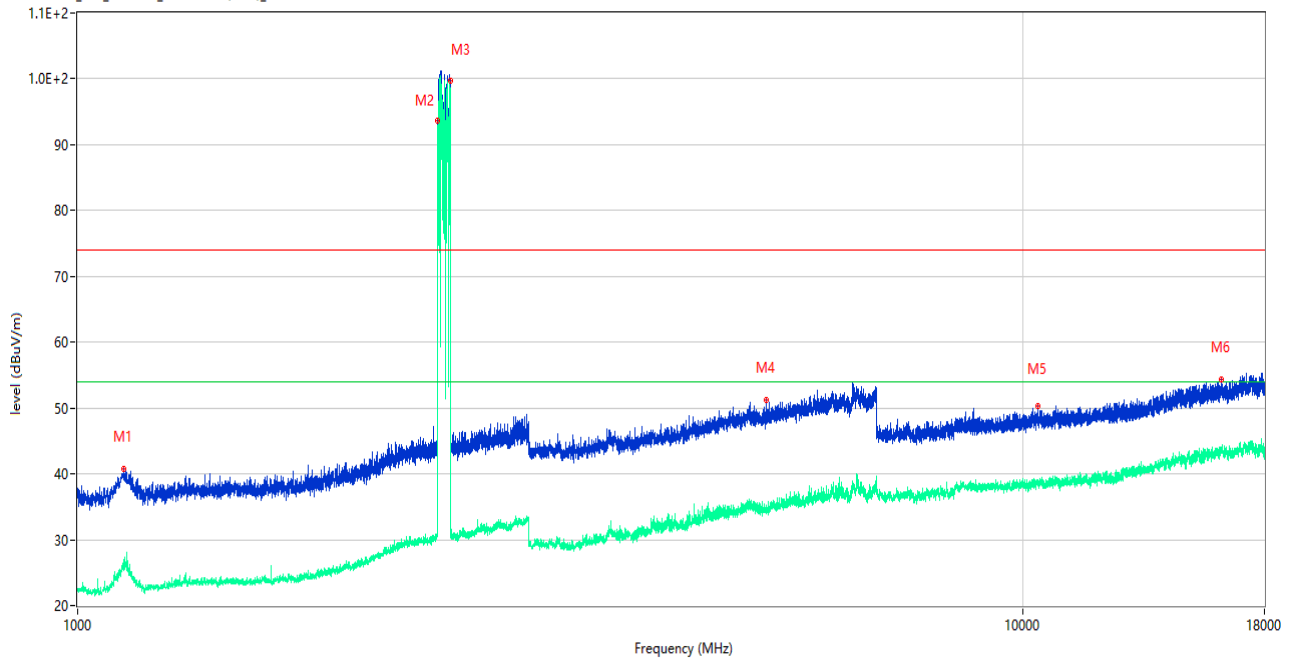
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1132.500	26.43	-18.25	54.0	-27.57	AV	157.00	150	Vertical	Pass
1	1132.500	41.80	-18.25	74.0	-32.20	Peak	157.00	150	Vertical	Pass
2**	2403.000	73.85	-11.82	54.0	19.85	AV	0.00	150	Vertical	N/A
2	2403.000	79.48	-11.82	74.0	5.48	Peak	0.00	150	Vertical	N/A
3**	2478.000	77.29	-11.96	54.0	23.29	AV	249.00	150	Vertical	N/A
3	2478.000	82.18	-11.96	74.0	8.18	Peak	249.00	150	Vertical	N/A
4**	6018.000	36.52	-1.21	54.0	-17.48	AV	313.00	150	Vertical	Pass
4	6018.000	52.44	-1.21	74.0	-21.56	Peak	313.00	150	Vertical	Pass
5**	10452.875	38.66	-0.18	54.0	-15.34	AV	27.00	150	Vertical	Pass
5	10452.875	50.62	-0.18	74.0	-23.38	Peak	27.00	150	Vertical	Pass
6**	16186.125	43.28	2.65	54.0	-10.72	AV	87.00	150	Vertical	Pass
6	16186.125	55.43	2.65	74.0	-18.57	Peak	87.00	150	Vertical	Pass

GFSK MODE 1 GHz to 18 GHz, ANT H

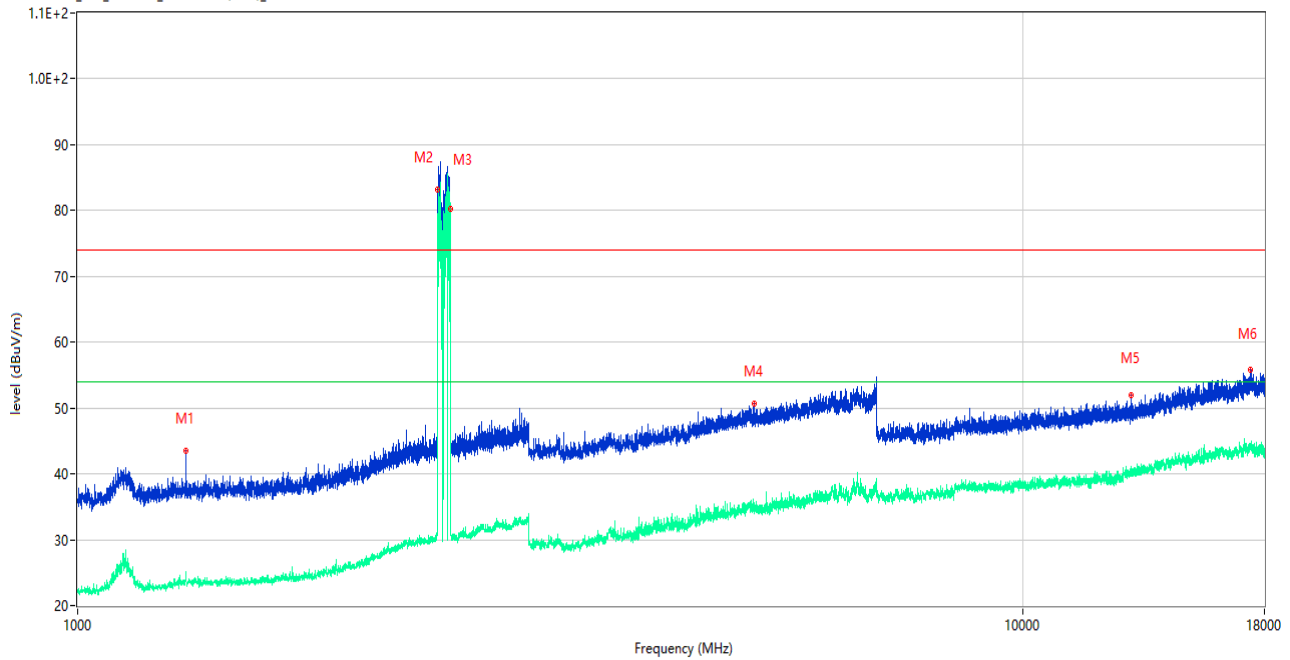
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1118.000	25.84	-18.13	54.0	-28.16	AV	222.00	150	Horizontal	Pass
1	1118.000	40.80	-18.13	74.0	-33.20	Peak	222.00	150	Horizontal	Pass
2**	2404.000	88.24	-11.84	54.0	34.24	AV	0.00	150	Horizontal	N/A
2	2404.000	93.74	-11.84	74.0	19.74	Peak	0.00	150	Horizontal	N/A
3**	2479.000	94.12	-11.98	54.0	40.12	AV	84.00	150	Horizontal	N/A
3	2479.000	99.65	-11.98	74.0	25.65	Peak	84.00	150	Horizontal	N/A
4**	5345.000	35.17	-2.76	54.0	-18.83	AV	165.00	150	Horizontal	Pass
4	5345.000	51.19	-2.76	74.0	-22.81	Peak	165.00	150	Horizontal	Pass
5**	10376.688	38.73	0.81	54.0	-15.27	AV	3.00	150	Horizontal	Pass
5	10376.688	50.35	0.81	74.0	-23.65	Peak	3.00	150	Horizontal	Pass
6**	16204.500	43.45	2.60	54.0	-10.55	AV	321.00	150	Horizontal	Pass
6	16204.500	54.38	2.60	74.0	-19.62	Peak	321.00	150	Horizontal	Pass

8-DPSK MODE 1 GHz to 18 GHz, ANT V

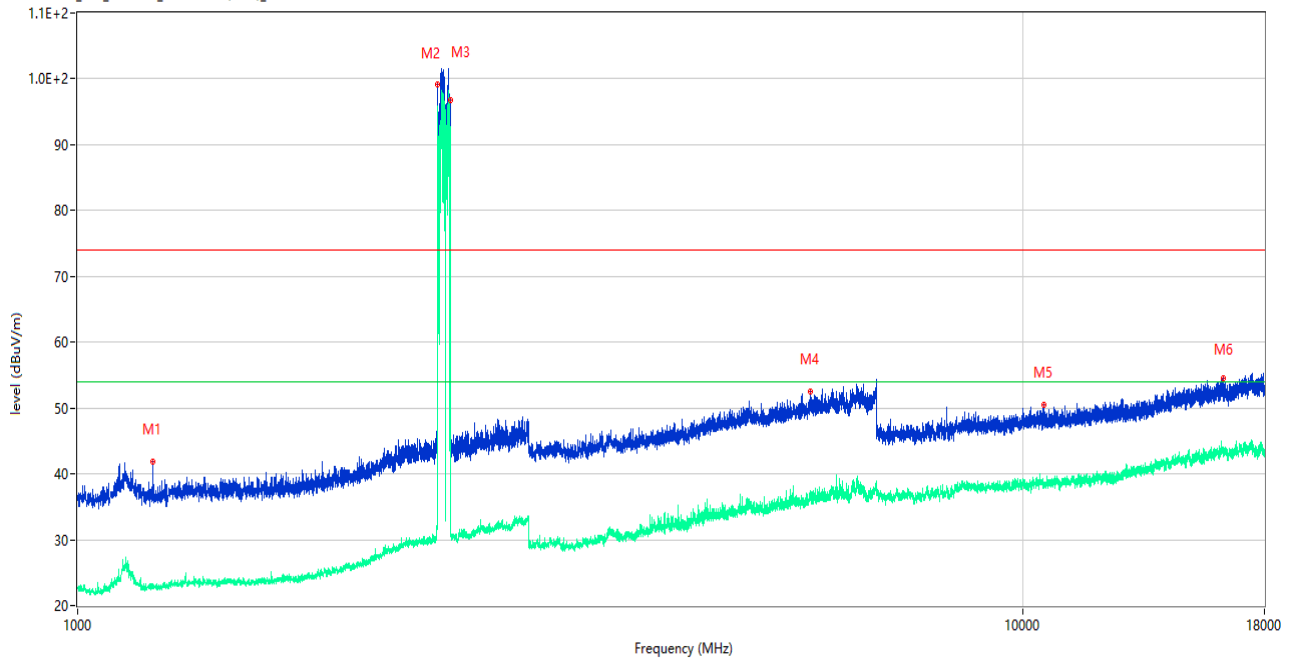
RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1301.500	23.61	-17.10	54.0	-30.39	AV	216.00	150	Vertical	Pass
1	1301.500	43.48	-17.10	74.0	-30.52	Peak	216.00	150	Vertical	Pass
2**	2404.000	77.20	-11.84	54.0	23.20	AV	285.00	150	Vertical	N/A
2	2404.000	83.25	-11.84	74.0	9.25	Peak	285.00	150	Vertical	N/A
3**	2480.000	74.83	-11.99	54.0	20.83	AV	222.00	150	Vertical	N/A
3	2480.000	80.25	-11.99	74.0	6.25	Peak	222.00	150	Vertical	N/A
4**	5192.000	35.44	-2.80	54.0	-18.56	AV	238.00	150	Vertical	Pass
4	5192.000	50.60	-2.80	74.0	-23.40	Peak	238.00	150	Vertical	Pass
5**	13019.062	40.66	1.80	54.0	-13.34	AV	332.00	150	Vertical	Pass
5	13019.062	51.96	1.80	74.0	-22.04	Peak	332.00	150	Vertical	Pass
6**	17396.251	43.98	4.20	54.0	-10.02	AV	75.00	150	Vertical	Pass
6	17396.251	55.81	4.20	74.0	-18.19	Peak	75.00	150	Vertical	Pass

8-DPSK MODE 1 GHz to 18 GHz, ANT H

RE Test case_FCC_Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	1201.500	22.81	-17.65	54.0	-31.19	AV	124.00	150	Horizontal	Pass
1	1201.500	41.81	-17.65	74.0	-32.19	Peak	124.00	150	Horizontal	Pass
2**	2402.000	93.52	-11.82	54.0	39.52	AV	94.00	150	Horizontal	N/A
2	2402.000	99.17	-11.82	74.0	25.17	Peak	94.00	150	Horizontal	N/A
3**	2477.000	90.80	-12.04	54.0	36.80	AV	147.00	150	Horizontal	N/A
3	2477.000	96.73	-12.04	74.0	22.73	Peak	147.00	150	Horizontal	N/A
4**	5955.000	36.86	-1.02	54.0	-17.14	AV	126.00	150	Horizontal	Pass
4	5955.000	52.46	-1.02	74.0	-21.54	Peak	126.00	150	Horizontal	Pass
5**	10527.625	38.12	-0.20	54.0	-15.88	AV	274.00	150	Horizontal	Pass
5	10527.625	50.58	-0.20	74.0	-23.42	Peak	274.00	150	Horizontal	Pass
6**	16266.188	43.33	1.81	54.0	-10.67	AV	106.00	150	Horizontal	Pass
6	16266.188	54.62	1.81	74.0	-19.38	Peak	106.00	150	Horizontal	Pass

A.9 Band Edge (Restricted-band band-edge)

Note ¹: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

Note ²: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

Note ³: According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note ⁴: The Level (dBuV/m) has been corrected by factor.

8 inches

Test Mode	Test Channel	Frequency (MHz)	Level (dBuV/m)	Factor (dB)	Limit Line (dBuV/m)	Margin (dB)	Remark	Verdict
GFSK	Low	2390.00	53.098	31.47	74	20.902	PEAK	Pass
		2390.00	N/A	N/A	54	N/A	AVERAGE	Pass
GFSK	HIGH	2483.50	52.311	31.40	74	21.689	PEAK	Pass
		2483.50	N/A	N/A	54	N/A	AVERAGE	Pass
8-DPSK	Low	2390.00	52.843	31.47	74	21.157	PEAK	Pass
		2390.00	N/A	N/A	54	N/A	AVERAGE	Pass
8-DPSK	HIGH	2483.50	53.355	31.40	74	20.645	PEAK	Pass
		2483.50	N/A	N/A	54	N/A	AVERAGE	Pass
GFSK(Hopping)	Low	2390.00	53.136	31.47	74	20.864	PEAK	Pass
		2390.00	N/A	N/A	54	N/A	AVERAGE	Pass
GFSK(Hopping)	HIGH	2483.50	52.979	31.40	74	21.021	PEAK	Pass
		2483.50	N/A	N/A	54	N/A	AVERAGE	Pass
8-DPSK (Hopping)	Low	2390.00	53.055	31.47	74	20.945	PEAK	Pass
		2390.00	N/A	N/A	54	N/A	AVERAGE	Pass
8-DPSK (Hopping)	HIGH	2483.50	52.702	31.40	74	21.298	PEAK	Pass
		2483.50	N/A	N/A	54	N/A	AVERAGE	Pass

10.1 inches

Test Mode	Test Channel	Frequency (MHz)	Level (dBuV/m)	Factor (dB)	Limit Line (dBuV/m)	Margin (dB)	Remark	Verdict
GFSK	Low	2390.00	53.606	32.61	74	20.394	PEAK	Pass
		2390.00	N/A	N/A	54	N/A	AVERAGE	Pass
GFSK	HIGH	2483.50	53.604	32.54	74	20.396	PEAK	Pass
		2483.50	N/A	N/A	54	N/A	AVERAGE	Pass
8-DPSK	Low	2390.00	53.111	32.61	74	20.889	PEAK	Pass
		2390.00	N/A	N/A	54	N/A	AVERAGE	Pass
8-DPSK	HIGH	2483.50	54.710	32.54	74	19.290	PEAK	Pass
		2483.50	45.460	32.54	54	8.540	AVERAGE	Pass
GFSK(Hopping)	Low	2390.00	53.875	32.61	74	20.125	PEAK	Pass
		2390.00	N/A	N/A	54	N/A	AVERAGE	Pass
GFSK(Hopping)	HIGH	2483.50	53.609	32.54	74	20.391	PEAK	Pass
		2483.50	N/A	N/A	54	N/A	AVERAGE	Pass
8-DPSK (Hopping)	Low	2390.00	53.426	32.61	74	20.574	PEAK	Pass
		2390.00	N/A	N/A	54	N/A	AVERAGE	Pass
8-DPSK (Hopping)	HIGH	2483.50	53.137	32.54	74	20.863	PEAK	Pass
		2483.50	N/A	N/A	54	N/A	AVERAGE	Pass

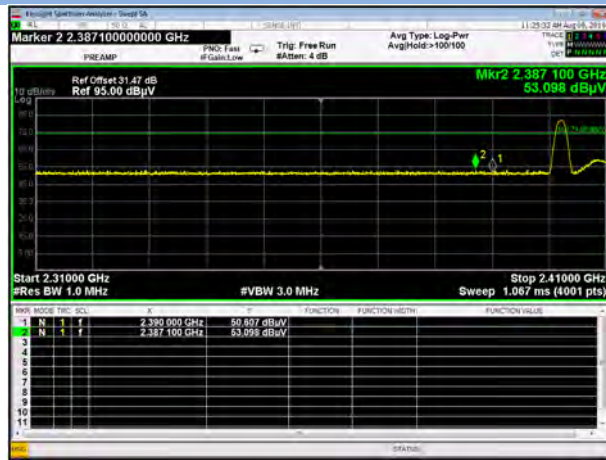
11.5 inches

Test Mode	Test Channel	Frequency (MHz)	Level (dBuV/m)	Factor (dB)	Limit Line (dBuV/m)	Margin (dB)	Remark	Verdict
GFSK	Low	2390.00	53.253	32.61	74	20.747	PEAK	Pass
		2390.00	N/A	N/A	54	N/A	AVERAGE	Pass
GFSK	HIGH	2483.50	53.754	32.54	74	20.246	PEAK	Pass
		2483.50	N/A	N/A	54	N/A	AVERAGE	Pass
8-DPSK	Low	2390.00	52.883	32.61	74	21.117	PEAK	Pass
		2390.00	N/A	N/A	54	N/A	AVERAGE	Pass
8-DPSK	HIGH	2483.50	53.245	32.54	74	20.755	PEAK	Pass
		2483.50	N/A	N/A	54	N/A	AVERAGE	Pass
GFSK(Hopping)	Low	2390.00	52.789	32.61	74	21.211	PEAK	Pass
		2390.00	N/A	N/A	54	N/A	AVERAGE	Pass
GFSK(Hopping)	HIGH	2483.50	53.218	32.54	74	20.782	PEAK	Pass
		2483.50	N/A	N/A	54	N/A	AVERAGE	Pass
8-DPSK (Hopping)	Low	2390.00	52.716	32.61	74	21.284	PEAK	Pass
		2390.00	N/A	N/A	54	N/A	AVERAGE	Pass
8-DPSK (Hopping)	HIGH	2483.50	53.537	32.54	74	20.463	PEAK	Pass
		2483.50	N/A	N/A	54	N/A	AVERAGE	Pass

Test Plots

8 inches

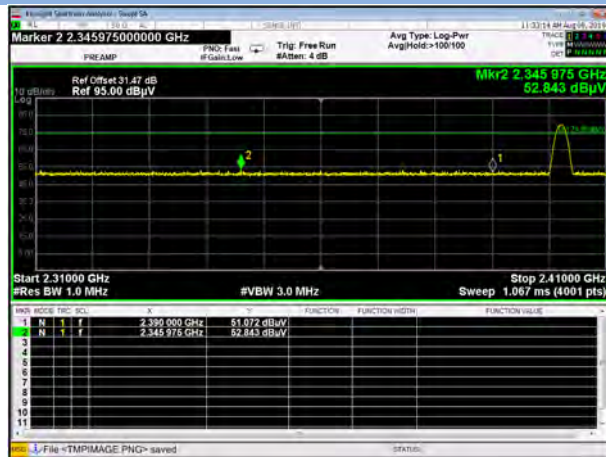
GFSK LOW CHANNEL , PEAK



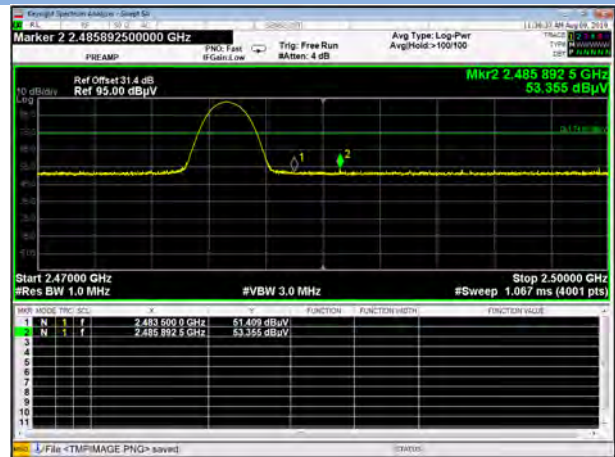
GFSK HIGH CHANNEL , PEAK



8-DPSK LOW CHANNEL , PEAK

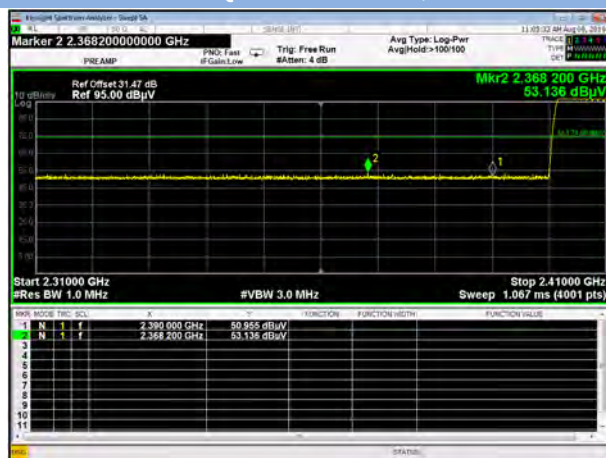


8-DPSK HIGH CHANNEL , PEAK



Hopping Mode:

GFSK LOW FREQUENCY BAND, PEAK



GFSK HIGH FREQUENCY BAND, PEAK



8-DPSK LOW FREQUENCY BAND, PEAK

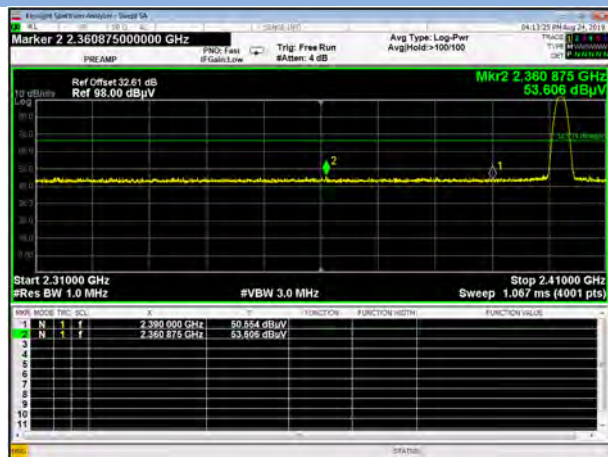


8-DPSK HIGH FREQUENCY BAND, PEAK

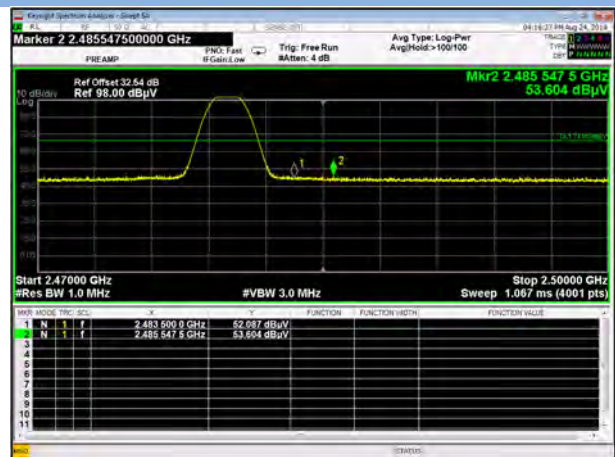


10.1 inches

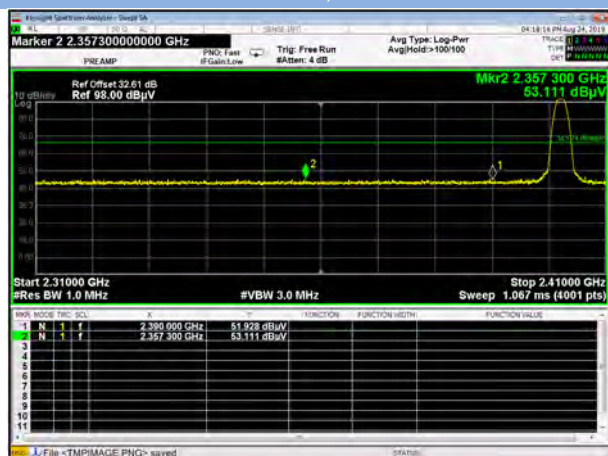
GFSK LOW CHANNEL, PEAK



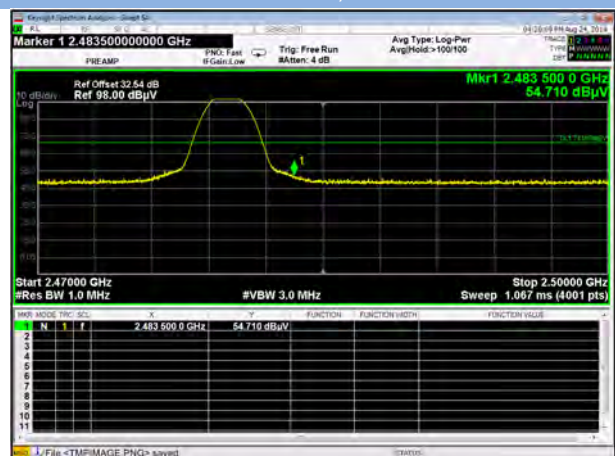
GFSK HIGH CHANNEL, PEAK



8-DPSK LOW CHANNEL, PEAK



8-DPSK HIGH CHANNEL, PEAK

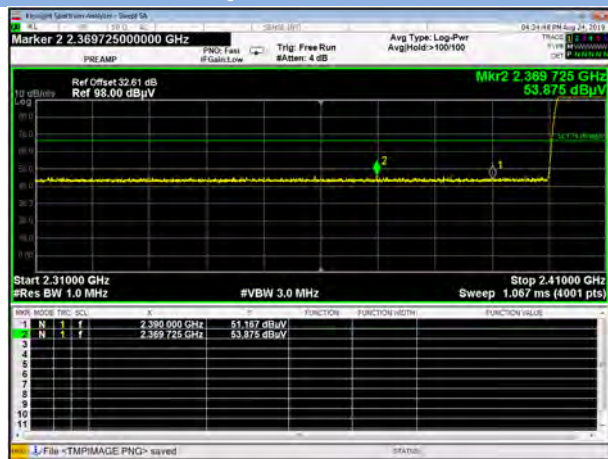


8-DPSK HIGH CHANNEL ,AV



Hopping Mode:

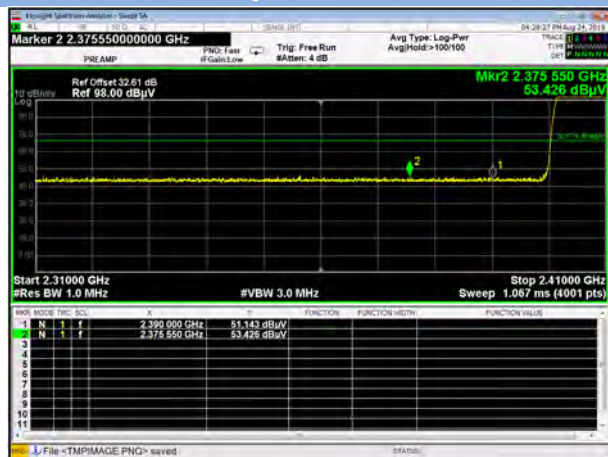
GFSK LOW FREQUENCY BAND, PEAK



GFSK HIGH FREQUENCY BAND, PEAK



8-DPSK LOW FREQUENCY BAND, PEAK

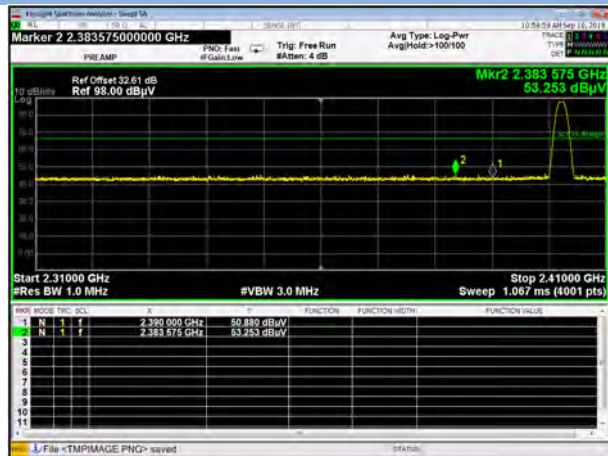


8-DPSK HIGH FREQUENCY BAND, PEAK



11.5 inches

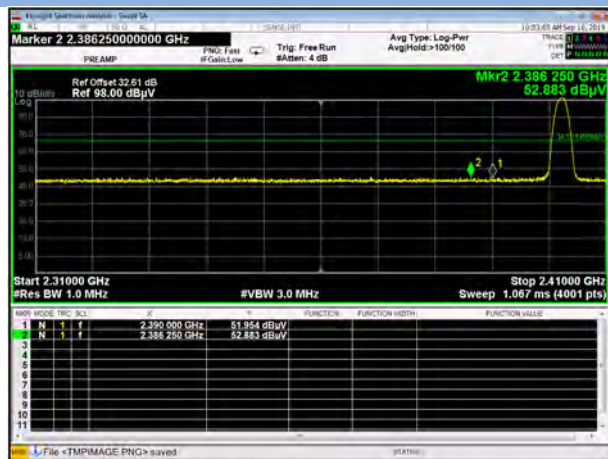
GFSK LOW CHANNEL , PEAK



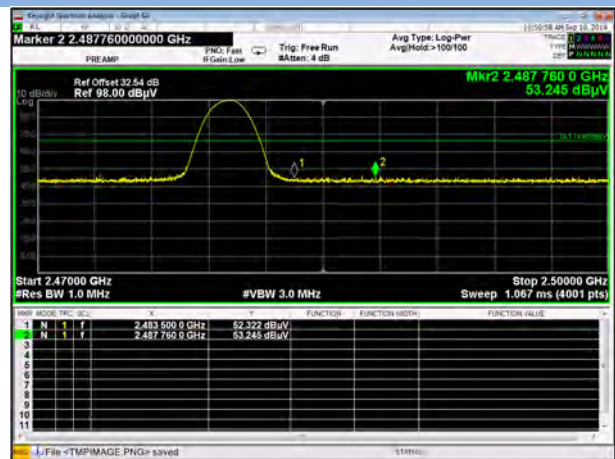
GFSK HIGH CHANNEL , PEAK



8-DPSK LOW CHANNEL , PEAK

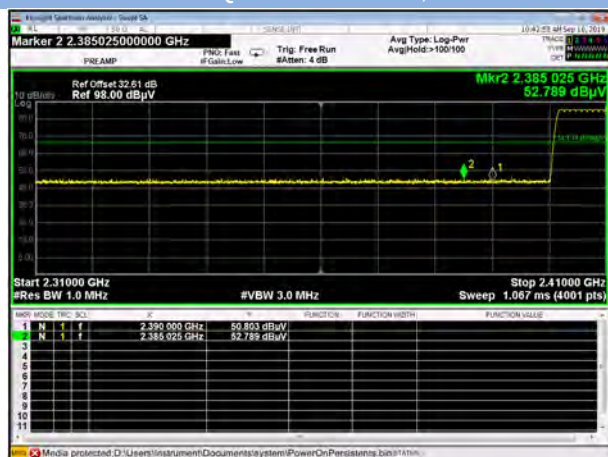


8-DPSK HIGH CHANNEL , PEAK

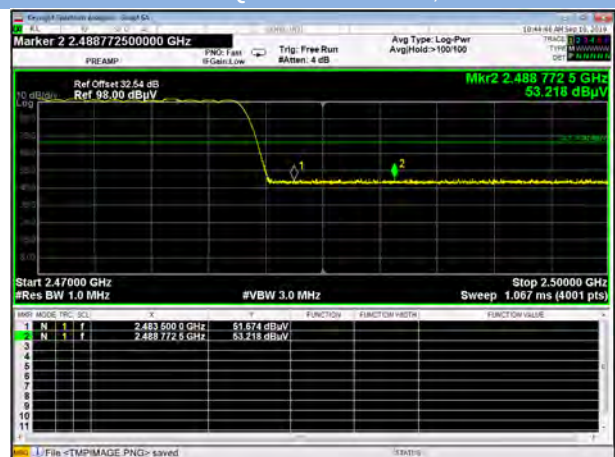


Hopping Mode:

GFSK LOW FREQUENCY BAND, PEAK



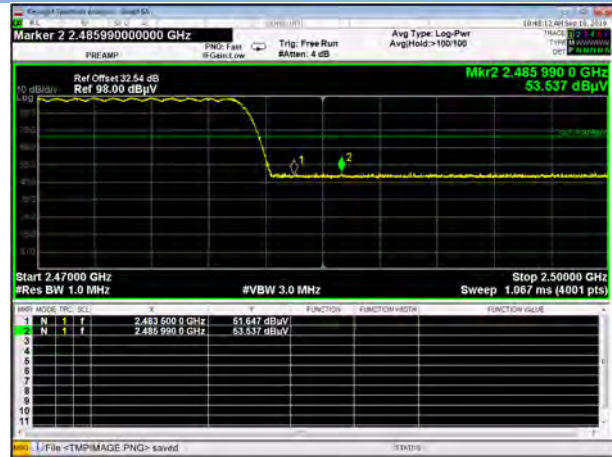
GFSK HIGH FREQUENCY BAND, PEAK



8-DPSK LOW FREQUENCY BAND, PEAK



8-DPSK HIGH FREQUENCY BAND, PEAK



ANNEX B TEST SETUP PHOTOS

Please refer the document "BL-SZ1970050-AR.PDF".

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document "BL-SZ1970050-AW.PDF".

ANNEX D EUT INTERNAL PHOTOS

Please refer the document "BL-SZ1970050-AI.PDF".

--END OF REPORT--