

Prüfbericht-Nr.: Test Report No.:	CN22DEJD 001		Auftrags-Nr.: Order No.:	170304119	Seite 1 von 30 Page 1 of 30
Kunden-Referenz-Nr.: Client Reference No.:	440253		Auftragsdatum: Order date.:	23 Mar, 2022	
Auftraggeber: Client:	Dongguan Alllike Electronics Co., Ltd. Chuancha Development Zone, Machong Town 523141 P.R. China				
Prüfgegenstand: Test item:	Sobro TV Dongle				
Bezeichnung / Typ-Nr.: Identification / Type No.:	SOACC021BTBK				
Auftrags-Inhalt: Order content:	TUV Rheinland - EMC service				
Prüfgrundlage: Test specification:	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209 FCC KDB Publication 447498 D01 v06 RSS-247 Issue 2 February 2017 RSS-Gen Issue 5 November 2018 RSS-102 Issue 5 March 2015				
Wareneingangsdatum: Date of receipt:	23 Mar, 2017		Please refer to photo documents		
Prüfmuster-Nr.: Test sample No.:	A003235750-002				
Prüfzeitraum: Testing period:	Refer to the test report				
Ort der Prüfung: Place of testing:	Refer to section 2.1				
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Guangdong) Ltd.				
Prüfergebnis*: Test result*:	Pass				
überprüft von: reviewed by:			genehmigt von: authorized by:		
Datum: 2022.04.29 Date:			Datum: 2022.04.29 Date:		
Stellung/Position:	Storm Shu/Project Manager		Stellung/Position:	Amy Wang/Reviewer	
Datum Date	Name/Stellung Name/Position	Unterschrift Signature	Datum Date	Name/Stellung Name/Position	Unterschrift Signature
Sonstiges / Other: FCC ID: BUQ- SOACC021BTBKB IC: 11059A-SOACC021BTB HVIN: SOACC021BTB					
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:			Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested					
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.					

Test Summary

5.1.1 ANTENNA REQUIREMENT*RESULT: Pass***5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER***RESULT: Pass***5.1.3 CONDUCTED POWER SPECTRAL DENSITY***RESULT: Pass***5.1.4 6dB BANDWIDTH***RESULT: Pass***5.1.5 99% BANDWIDTH***RESULT: Pass***5.1.6 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH***RESULT: Pass***5.1.7 RADIATED SPURIOUS EMISSION***RESULT: Pass***5.1.8 20dB BANDWIDTH***RESULT: Pass***5.1.9 CARRIER FREQUENCY SEPARATION***RESULT: Pass***5.1.10 NUMBER OF HOPPING FREQUENCY***RESULT: Pass***5.1.11 TIME OF OCCUPANCY***RESULT: Pass***5.1.12 CONDUCTED EMISSIONS***RESULT: Passed***6.1.1 ELECTROMAGNETIC FIELDS***RESULT: Pass*

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix 1: Test Results of BLE

Appendix 2: Test Results of General Bluetooth

Appendix 3: Test setup

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Guangdong) Ltd. EMC Laboratory

No.102, 1F of Southwest and No.205, 2F of West Warehouse Building, No.767 Tianyuan Road, Tianhe District, Guangzhou, Guangdong, P.R. China

FCC Designation No.: CN1207

CAB Identifier: CN0018

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Until	Calibratio Interval
Radio Spectrum Testing					
Spectrum Analyzer	Rohde & Schwarz	FSP30	100286	2022-08-16	1 Year
Conducted Emissions					
EMI Test Receiver	Rohde&Schwarz	ESCI 3	100314	2023-03-14	1 Year
Two-Line V- Network	Rohde&Schwarz	ENV216	100195	2022-06-01	1 Year
Spurious Emission					
EMI Test Receiver	Rohde&Schwarz	ESR7	102110	2023-03-14	1 Year
Artificial Mains Network	AFJ	LT32C/10	320318102 53	2022-07-30	1 Year
Impedance Stabilization Network	TESTQ	ISN T8-Cat6	39916	2023-03-14	1 Year
Artificial Mains Network	Rohde&Schwarz	ESH2-Z5	100114	2023-03-14	1 Year
EMI Test Receiver	Rohde & Schwarz	ESU 26	100209	2023-03-14	1 Year
Spectrum Analyzer	Rohde & Schwarz	FSP30	100286	2022-08-16	1 Year
Trilog-Broadband Antenna	Schwarzbeckmess- elektronik	VULB9168	684	2022-08-21	1 Year
Double-Ridged Horn Antenna	Rohde & Schwarz	HF907	100377	2022-10-20	1 Year
Horn Antenna	EMCO	3160-09	21642	2023-01-19	1 Year
Pre-Amplifier(1- 18GHz)	MITEQ	AFS44- 00101800-25- 10P-44	1934457	2022-05-28	1 Year
Pre-Amplifier(18- 26GHz)	MITEQ	AFS33- 18002650-30- 8P-44	1108282	2022-07-30	1 Year
Band Reject Filter	Micro-Tronics	BRM50702	023	2022-07-04	1 Year
Highpass Filter	Micro-Tronics	HPM50115-03	001	2023-03-19	1 Year
Test software	Rohde&Schwarz	EMC32	V9.25	/	/

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table

Item		Extended Uncertainty
Conducted Emission		± 2.68 dB
Radiated Emission (9kHz-30MHz)	Field strength (dBµV/m)	U=3.08dB, k=2, σ=95%
Radiated Emission (30-1000MHz)	Field strength (dBµV/m)	U=5.16dB, k=2, σ=95%
Radiated Emission (above 1000MHz)	Field strength (dBµV/m)	U=3.08dB, k=2, σ=95%
Radio Spectrum		± 0.60 dB

2.6 Sample Calculations

Calculation of test results for conducted emission measurement:

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2100	24.61	20.35	44.96	63.21	-18.25	QP
2	0.2100	4.92	20.35	25.27	53.21	-27.94	AVG

Frequency (MHz) = Emission frequency in MHz

Correct Factor = Insertion loss + Cable loss

Margin = Result (Reading + Correct Factor) – Limit

Detector: QP= Quasi-Peak; AVG= Average

e.g.:

44.96dBuV (Result) = 24.61dBuV (Reading) + 20.35dB (Correct Factor)

-18.25dB (Margin) = 44.96dBuV (Result) – 63.21dBuV (Limit)

2.7 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix 1&2 of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Guangdong) file for certification follow-up purposes.

2.8 Status of Facility Used for Testing

TÜV Rheinland (Guangdong) Ltd. EMC Laboratory
No.102, 1F of Southwest and No.205, 2F of West Warehouse Building, No.767 Tianyuan Road, Tianhe District, Guangzhou, Guangdong, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The submit sample SOACC021BTBK is Sobro TV Dongle with Bluetooth 4.2 (Dual mode). They can be used in following electromagnetic environment: residential, commercial and light industrial, urban outdoors.

According to the above information, full tests were performed on model **SOACC021BTBK**.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

Technical Specification	Value
Kind of Equipment	Sobro TV Dongle
Type Designation	SOACC021BTBK
FCC ID	BUQ- SOACC021BTBKB
ISED	11059A- SOACC021BTB
HVIN	SOACC021BTB
Operating Temperature Range	-10°C to +40°C
Operating Voltage	100~240Vac, 50/60Hz (with adapter SW0501000-A04)
Testing Voltage	AC 120V/60HZ
Technical Specification of Bluetooth 4.2 (Dual mode)	
Operating Frequency	2402 - 2480 MHz
Type of Modulation	GFSK, $\pi/4$ DQPSK, 8-DPSK GFSK
Channel Number	79 channels 40 channels
Channel Separation	1MHz 2MHz
Wireless Technology	Bluetooth 4.2 (Dual mode)
Antenna Type	PCB Antenna
Antenna Gain	0.0 dBi (Declation by manufacturer)

Table 3: RF Channel and Frequency of General Bluetooth

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402.00	20	2422.00	40	2442.00	60	2462.00
1	2403.00	21	2423.00	41	2443.00	61	2463.00
2	2404.00	22	2424.00	42	2444.00	62	2464.00
3	2405.00	23	2425.00	43	2445.00	63	2465.00
4	2406.00	24	2426.00	44	2446.00	64	2466.00
5	2407.00	25	2427.00	45	2447.00	65	2467.00
6	2408.00	26	2428.00	46	2448.00	66	2468.00
7	2409.00	27	2429.00	47	2449.00	67	2469.00
8	2410.00	28	2430.00	48	2450.00	68	2470.00
9	2411.00	29	2431.00	49	2451.00	69	2471.00
10	2412.00	30	2432.00	50	2452.00	70	2472.00
11	2413.00	31	2433.00	51	2453.00	71	2473.00
12	2414.00	32	2434.00	52	2454.00	72	2474.00
13	2415.00	33	2435.00	53	2455.00	73	2475.00
14	2416.00	34	2436.00	54	2456.00	74	2476.00
15	2417.00	35	2437.00	55	2457.00	75	2477.00
16	2418.00	36	2438.00	56	2458.00	76	2478.00
17	2419.00	37	2439.00	57	2459.00	77	2479.00
18	2420.00	38	2440.00	58	2460.00	78	2480.00
19	2421.00	39	2441.00	59	2461.00	/	/

Table 4: RF Channel and Frequency of Bluetooth Low Energy

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
00	2402.00	10	2422.00	20	2442.00	30	2462.00
01	2404.00	11	2424.00	21	2444.00	31	2464.00
02	2406.00	12	2426.00	22	2446.00	32	2466.00
03	2408.00	13	2428.00	23	2448.00	33	2468.00
04	2410.00	14	2430.00	24	2450.00	34	2470.00
05	2412.00	15	2432.00	25	2452.00	35	2472.00
06	2414.00	16	2434.00	26	2454.00	36	2474.00
07	2416.00	17	2436.00	27	2456.00	37	2476.00
08	2418.00	18	2438.00	28	2458.00	38	2478.00
09	2420.00	19	2440.00	29	2460.00	39	2480.00

Table 5: Frequency Hopping Information

Technical Specification	Description
Hopping Range	Hereby we declare that the frequency range of this device is: 2402-2480MHz. This is according the Bluetooth Core Specification V4.2 (dual mode) for devices which will be operated in the USA. This was checked during the Bluetooth Qualification tests (Test Case: TRM/CA/04-E).
Hopping Sequence	Example of a 79 hopping sequence in data mode: 33,04,21,44,23,42,53,46,55,48,40,59,72,29,76,31,08,73,07,75,09,45,60,39,58,13,47,11,77,52,35,50,65,54,67,56,69,62,71,64, 7,25,27,66,57,70,74,61,78,63,10,41,05,43,15,44,64,68,02,70,06,01,51,03,55,05,03,66,53,49,36,47,
Receiver input bandwidth	The input bandwidth of the receiver is 1MHz. In every connection one Bluetooth device is the master and the other one is the slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally the type of connection is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings. Repeating of a packer has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, General Bluetooth transmitting mode
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- B. On, BLE transmitting mode
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- C. On, Normal operation with Bluetooth mode
- D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|----------------------------------|-------------------------|
| - Application Form | - Operation Description |
| - Block Diagram | - Photo Document |
| - FCC/IC Label and Location Info | - Schematics |
| - Model Difference Letter | - User Manual |

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013 and ANSI C63.4: 2014

According to clause 3.1, all tests were performed on model SOACC021BTBK in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 6: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Laptop	IBM	2366(T30)	99-BLMAW 03/03	/

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

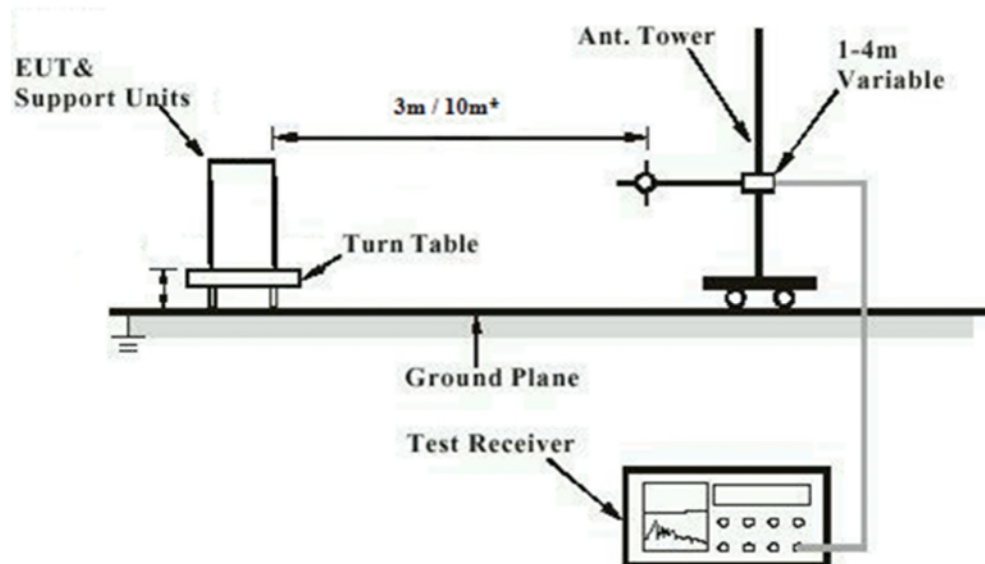


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

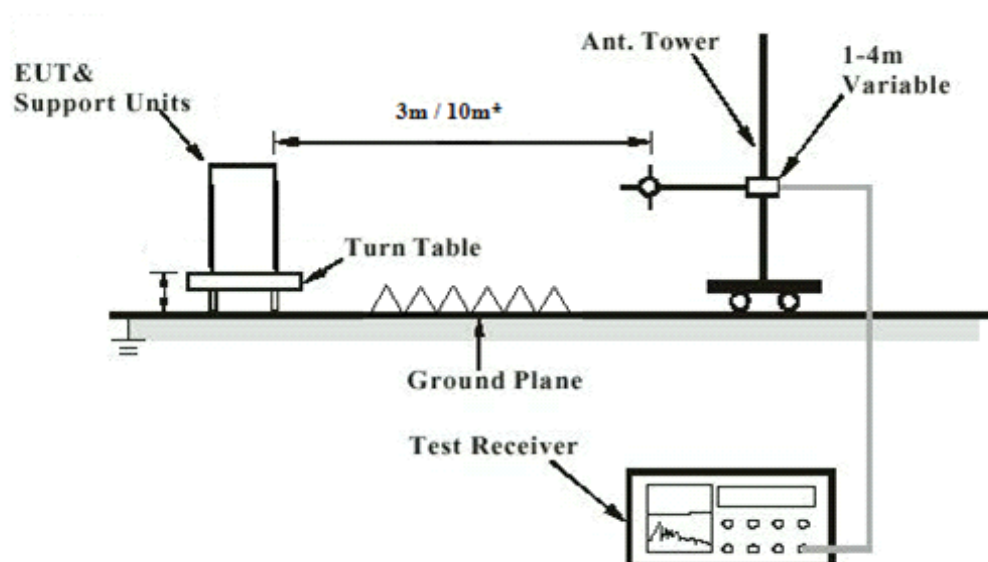


Diagram of Measurement Configuration for Mains Conduction Measurement

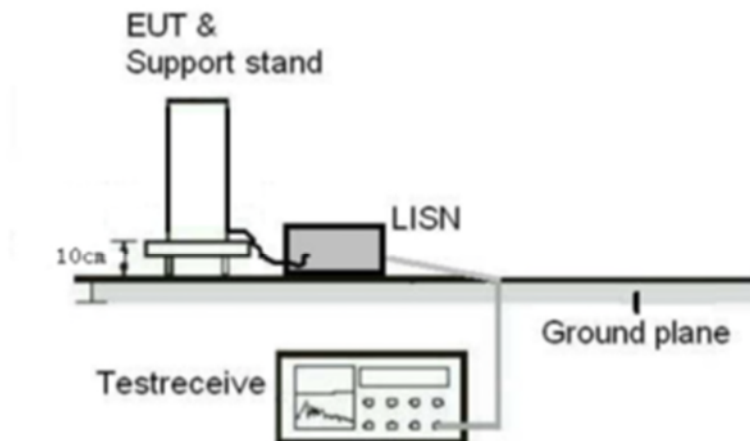
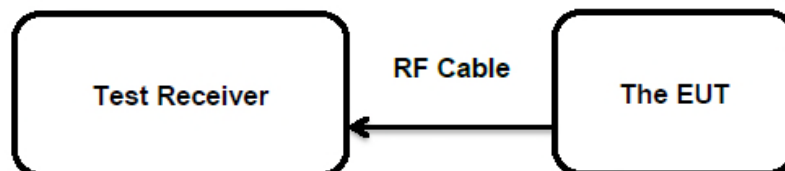


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Pass****Test Specification**

Test standard : FCC Part 15.247(b)(4) and Part 15.203

According to the manufacturer declared, the EUT has two internal antenna, the directional gain of Bluetooth antenna is 0 dBi, and the two antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

5.1.2 Maximum Peak Conducted Output Power

RESULT:
Pass
Test Specification

Test standard	:	FCC Part 15.247(b)(1)&(3) RSS-247 Clause 5.4(b)&(d)
Basic standard	:	ANSI C63.10: 2013
Limits	:	FHSS < 0.125 Watts, DSSS < 1.0 Watts
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	12.04.2022
Input voltage	:	AC 120V/60HZ
Operation mode	:	A, B
Test channel	:	Low / Middle / High
Ambient temperature	:	24 °C
Relative humidity	:	50 %
Atmospheric pressure	:	101 kPa

Table 7: Test Result of Maximum Peak Conducted Output Power

General BT, GFSK

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2402	-1.78	0.00066	0.125
Middle Channel	2441	-1.60	0.00069	0.125
High Channel	2480	-1.64	0.00069	0.125

General BT, 8DPSK

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2402	0.87	0.00122	0.125
Middle Channel	2441	1.03	0.00127	0.125
High Channel	2480	0.77	0.00119	0.125

BLE, GFSK

Channel	Channel Frequency (MHz)	Peak Output Power		Limit
		(dBm)	(W)	(W)
Low Channel	2402	-2.59	0.00055	0.125
Middle Channel	2441	-2.38	0.00058	0.125
High Channel	2480	-1.95	0.00064	0.125

Note:

- 1) The cable loss is 0.5dB taken into account in results.
- 2) Antenna gain(G) of Bluetooth: 0 dBi,

The Maximum peak conducted output power (e.i.r.p.)= $P_{(\text{Peak power})} + G$, which is far below the 4 W

This testing was carried out on all operation modes, but only the worst case was presented in this report.

5.1.3 Conducted Power Spectral Density

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(e)
Basic standard : ANSI C63.10: 2013
Limits : 8 dBm/3kHz
Kind of test site : Shielded Room

Test Setup

Date of testing : 12.04.2022
Input voltage : AC 120V/60HZ
Operation mode : B
Test channel : Low / Middle / High
Ambient temperature : 25 °C
Relative humidity : 56 %
Atmospheric pressure : 101 kPa

Table 8: Test Result of Power Spectral Density, Low Energy

Test Mode	Test Channel (MHz)	Power Spectrum Density(dBm/3kHz)	Limit (dBm/3kHz)
Low Energy	2402	-14.87	< 8.0
	2440	-14.73	
	2480	-14.26	
Maximum Measured Value		-14.26	

Note: The cable loss is 0.5dB taken into account in results.

For the measurement records, refer to the appendix 1.

5.1.4 6dB Bandwidth

RESULT:**Pass****Test Specification**

Test standard : FCC Part 15.247(a)(2)
Basic standard : ANSI C63.10: 2013
Limits : More than 500 KHz
Kind of test site : Shielded Room

Test Setup

Date of testing : 12.04.2022
Input voltage : AC 120V/60HZ
Operation mode : B
Test channel : Low / Middle / High
Ambient temperature : 24 °C
Relative humidity : 50 %
Atmospheric pressure : 101 kPa

Table 9: Test Result of 6dB Bandwidth, Low Energy

Test Mode	Test Channel (MHz)	-6dB Bandwidth (kHz)	Limit (kHz)
Low Energy	2402	520.000	> 500
	2440	524.000	
	2480	528.000	
Minimum Measured Value		520.000	

For the measurement records, refer to the appendix 1.

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Seite 21 von 30
Page 21 of 30**5.1.5 99% Bandwidth****RESULT:****Pass****Test Specification**

Test standard : RSS-Gen Clause 6.6
Basic standard : ANSI C63.10: 2013
Limits : More than 500 KHz
Kind of test site : Shielded Room

Test Setup

Date of testing : 12.04.2022
Input voltage : AC 120V/60HZ
Operation mode : A, B
Test channel : Low / Middle / High
Ambient temperature : 24 °C
Relative humidity : 50 %
Atmospheric pressure : 101 kPa

Table 10: Test Result of 99% Bandwidth

General BT, GFSK

Channel	Channel Frequency (MHz)	99% Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2402	904	/	Pass
Mid Channel	2441	904	/	Pass
High Channel	2480	908	/	Pass

General BT, 8DPSK

Channel	Channel Frequency (MHz)	99% Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2402	1204	/	Pass
Mid Channel	2441	1200	/	Pass
High Channel	2480	1196	/	Pass

BLE, GFSK

Channel	Channel Frequency (MHz)	99% Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2402	1038	/	Pass
Mid Channel	2441	1038	/	Pass
High Channel	2480	1038	/	Pass

For the measurement records, refer to the appendix 1 & 2.

5.1.6 Conducted Spurious Emissions Measured in 100 kHz Bandwidth**RESULT:****Pass****Test Specification**

Test standard	: FCC Part 15.247(d) RSS-247 Clause 5.5
Basic standard	: ANSI C63.10: 2013
Limits	: 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 12.04.2022
Input voltage	: AC 120V/60HZ
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 24 °C
Relative humidity	: 50 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix 1 & 2.

5.1.7 Radiated Spurious Emission

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Clause 3.3
Basic standard	: ANSI C63.10: 2013
Limits	: Refer to 15.209(a) of FCC part 15.247(d)
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 12.04.2022
Input voltage	: AC 120V/60HZ
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 23 °C
Relative humidity	: 48 %
Atmospheric pressure	: 101 kPa

Remark:

The Radiated Spurious Emission was carried out within frequency range 9kHz – 30MHz and 18GHz - 26.5GHz, and the measurements with active antenna were greater than 20dB below the limit, so the test data were not recorded in the test report.

For the measurement records, refer to the appendix 1 & 2.

5.1.8 20dB Bandwidth

RESULT:
Pass
Test Specification

Test standard : FCC Part 15.247(a)(1)
RSS-247 Clause 5.1(a)
Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded Room

Test Setup

Date of testing : 12.04.2022
Input voltage : AC 120V/60HZ
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : 24 °C
Relative humidity : 50 %
Atmospheric pressure : 101 kPa

For details refer to following test result.

Table 11: Test Result of 20dB Bandwidth

Test Mode	Channel Frequency (MHz)	20dB Bandwidth (kHz)	2/3 of 20dB Bandwidth (kHz)	Limit (MHz)
BDR	2402	1032.00	688.000	/
	2441	1020.00	680.000	
	2480	1024.00	682.667	
EDR	2402	1352.00	901.333	/
	2441	1352.00	901.333	
	2480	1348.00	898.667	
Maximum Measured Value		1352.00	901.333	/

For the measurement records, refer to the appendix 2.

5.1.9 Carrier Frequency Separation

RESULT:
Pass
Test Specification

Test standard : FCC Part 15.247(a)(1)
RSS-247 Clause 5.1(b)

Basic standard : ANSI C63.10: 2013

Limits : $\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth, whichever is greater

Kind of test site : Shielded Room

Test Setup

Date of testing : 12.04.2022

Input voltage : AC 120V/60HZ

Operation mode : A

Test channel : Low / Middle / High

Ambient temperature : $24\text{ }^{\circ}\text{C}$

Relative humidity : 50 %

Atmospheric pressure : 101 kPa

For details refer to following test result.

Table 12: Test Result of Carrier Frequency Separation

Channel	Channel Frequency (MHz)	Measured Channel Separation (MHz)	Limit (kHz)	Result
Low Channel	2402	1.0	≥ 25kHz or 2/3 of 20dB bandwidth	Pass
Adjacency Channel	2403			
Mid Channel	2441	1.0		Pass
Adjacency Channel	2442			
High Channel	2480	1.0		Pass
Adjacency Channel	2479			

Note: The limit is maximum $2/3$ of the 20 dB bandwidth
For the measurement records, refer to the appendix 2.

5.1.10 Number of Hopping Frequency**RESULT:****Pass****Test Specification**

Test standard : FCC part 15.247(a)(1)(iii)
RSS-247 Clause 5.1(d)
Basic standard : ANSI C63.10: 2013
Limits : ≥ 15 non-overlapping channels
Kind of test site : Shielded Room

Test Setup

Date of testing : 12.04.2022
Input voltage : AC 120V/60HZ
Operation mode : A
Ambient temperature : 24 °C
Relative humidity : 50 %
Atmospheric pressure : 101 kPa

For details refer to following test result.

Table 13: Test Result of Number of Hopping Frequency

Test Mode	Frequency Range	Measured Quantity of Hopping Channel	Limit
FHSS	2402 - 2480 MHz	79	≥ 15

For the measurement records, refer to the appendix 2.

5.1.11 Time of Occupancy

RESULT:**Pass****Test Specification**

Test standard : FCC part 15.247(a)(1)(iii)
RSS-247 Clause 5.1(d)
Basic standard : ANSI C63.10: 2013
Limits : < 0.4s
Kind of test site : Shielded Room

Test Setup

Date of testing : 12.04.2022
Input voltage : AC 120V/60HZ
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : 24 °C
Relative humidity : 50 %
Atmospheric pressure : 101 kPa

For details refer to following test result.

Table 14: Test Result of Time of Occupancy

Modulation	Data Packet	Channel	pulse time(ms)	Dwell Time(s)	Limits(s)
GFSK	DH1	middle	0.360	0.115	0.4
	DH3	middle	1.660	0.266	0.4
	DH5	middle	2.940	0.314	0.4
Modulation	Data Packet	Channel	pulse time(ms)	Dwell Time(s)	Limits(s)
8-DPSK	3DH1	middle	0.380	0.122	0.4
	3DH3	middle	1.640	0.262	0.4
	3DH5	middle	2.920	0.311	0.4

Note:

Dwell time = Pulse width x Number of channels in Period

Period = 0.4 (seconds/ channel) x 79 (channel) = 31.6 seconds

Pre-test the different type of Modulation for this test. Only the worst case GFSK and 8-DPSK were recorded in this report.

For the measurement records, refer to the appendix 2.

5.1.12 Conducted Emissions**RESULT:****Passed****Test Specification**

Test standard	: FCC part 15.207
Basic standard	: ANSI C63.4: 2014
Frequency range	: 0.15 – 30MHz
Limits	: FCC Part 15.207(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 12.04.2022
Power supply	: 120Vac, 60Hz
Operation mode	: C (See 3.3)
Earthing	: Not connected
Ambient temperature	: 23.2 °C
Relative Humidity	: 61 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix 2.

6 Safety Human Exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:**Pass****Test Specification**

Test standard : CFR47 FCC Part 2: Section 2.1091
CFR47 FCC Part 1: Section 1.1310
FCC KDB Publication 447498 D01 v06
RSS-102 Issue 5 March 2015

The minimum distance for the EUT is less than 5mm.
Since maximum peak output power of the transmitter is 1.27 mW <10 mW.

Hence the EUT is excluded from SAR evaluation according to FCC KDB Publication 447498 D01 General RF Exposure Guidance v06.

The maximum peak output power of the transmitter is 1.03dBm (1.27 mW), which is far below the SAR exclusion threshold level 4 mW $\approx$ 6.02 dBm.

Hence the EUT is exempted from routine evaluation limits (SAR Evaluation) according to clause 2.5.1 of RSS-102 Issue 5.

7 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix 3.

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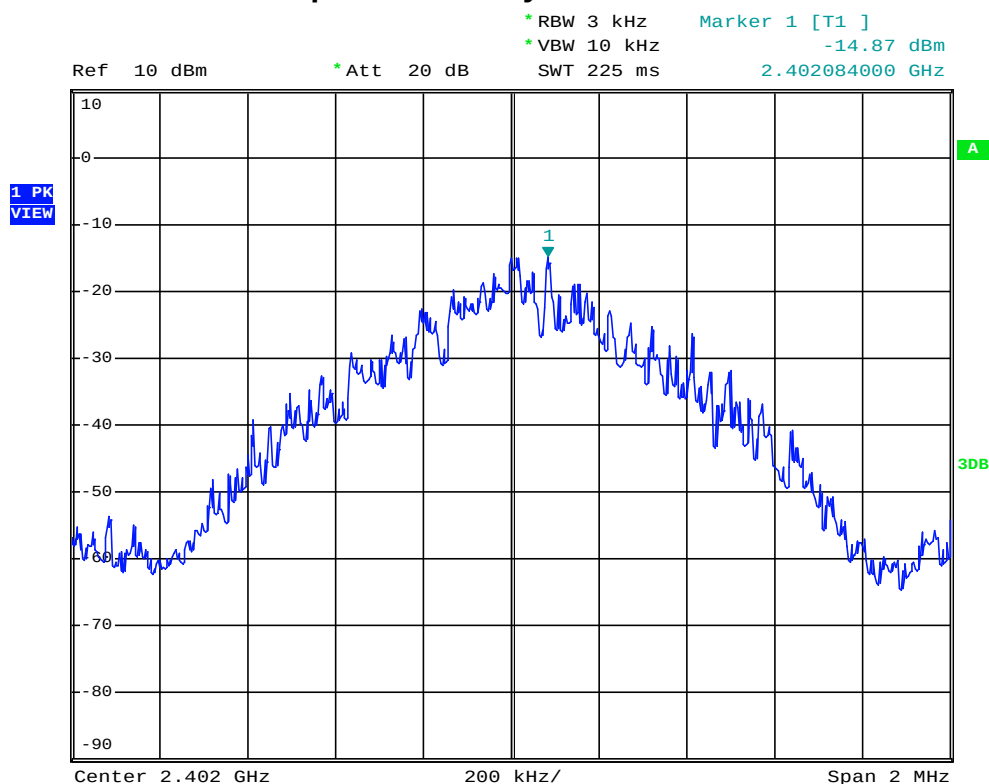
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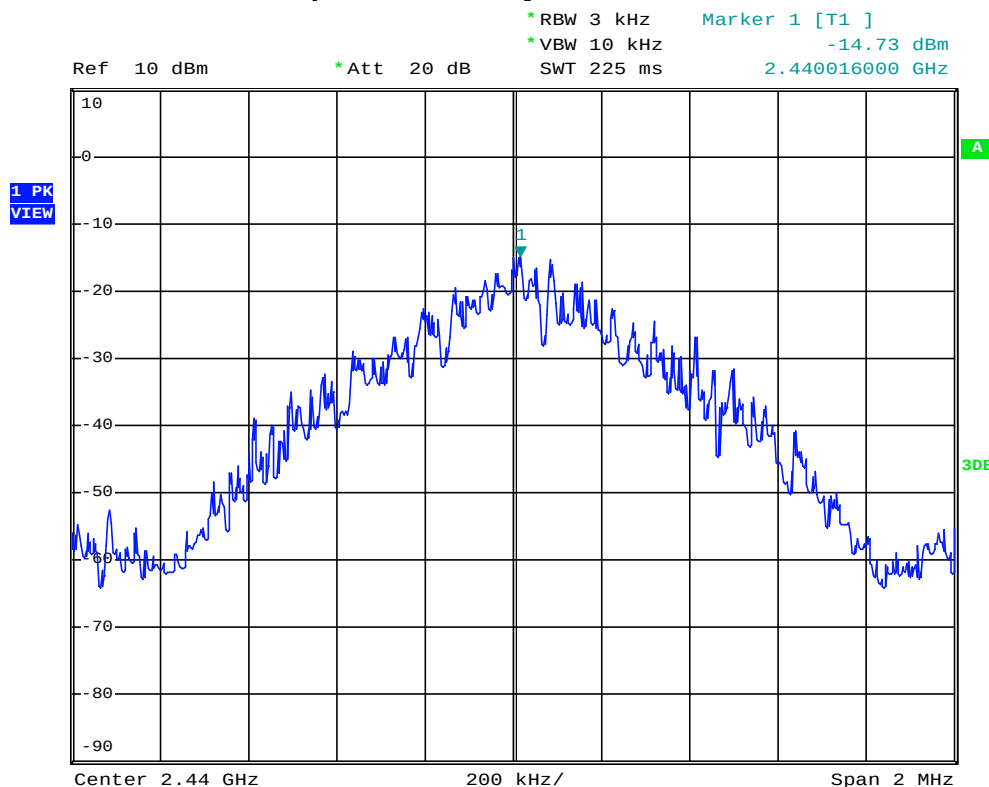
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Conducted Power Spectral Density–BLE-L Channel



Conducted Power Spectral Density–BLE-M Channel



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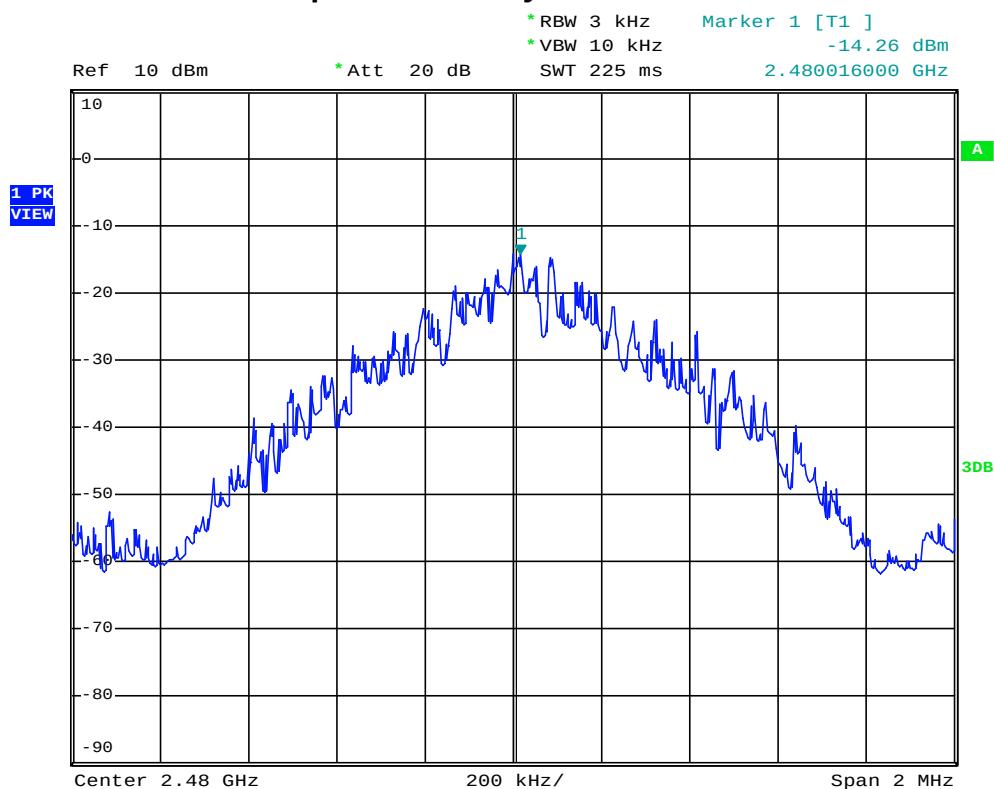
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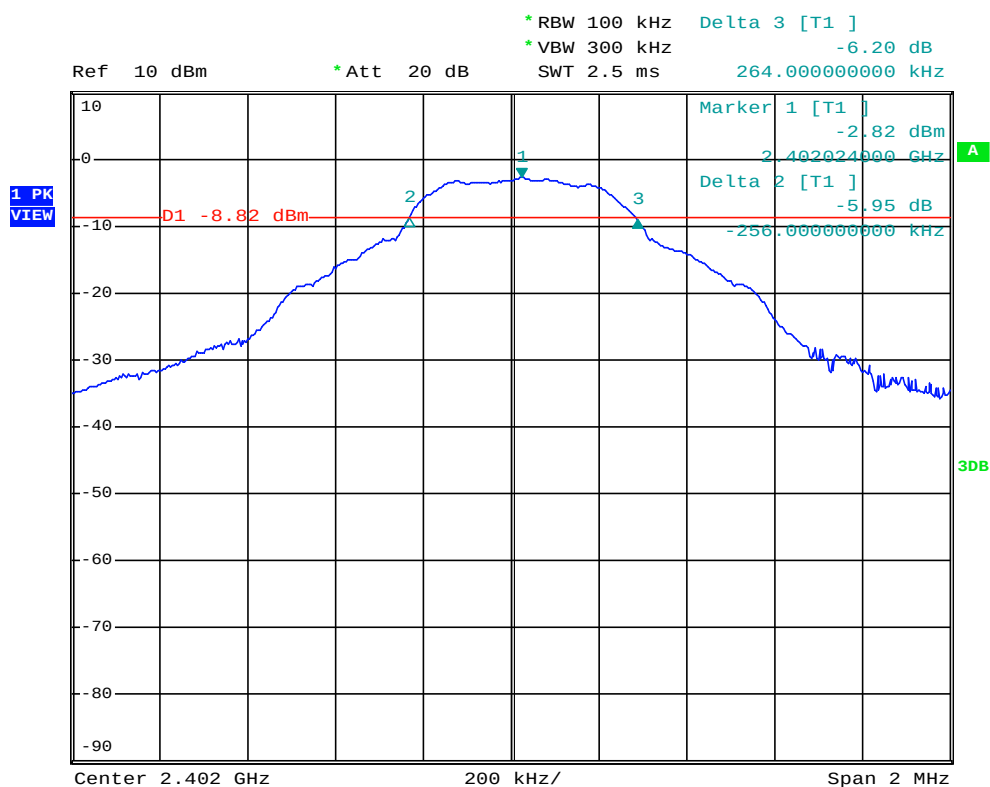
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Conducted Power Spectral Density-BLE-H Channel



6dB Bandwidth-BLE-L Channel



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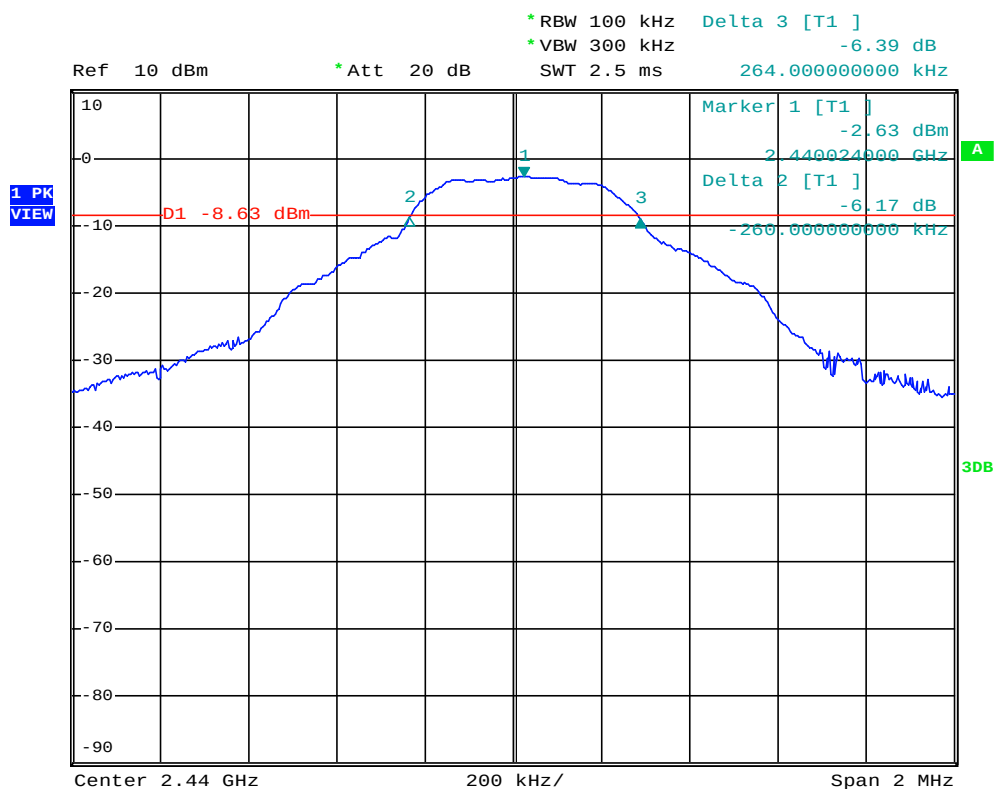
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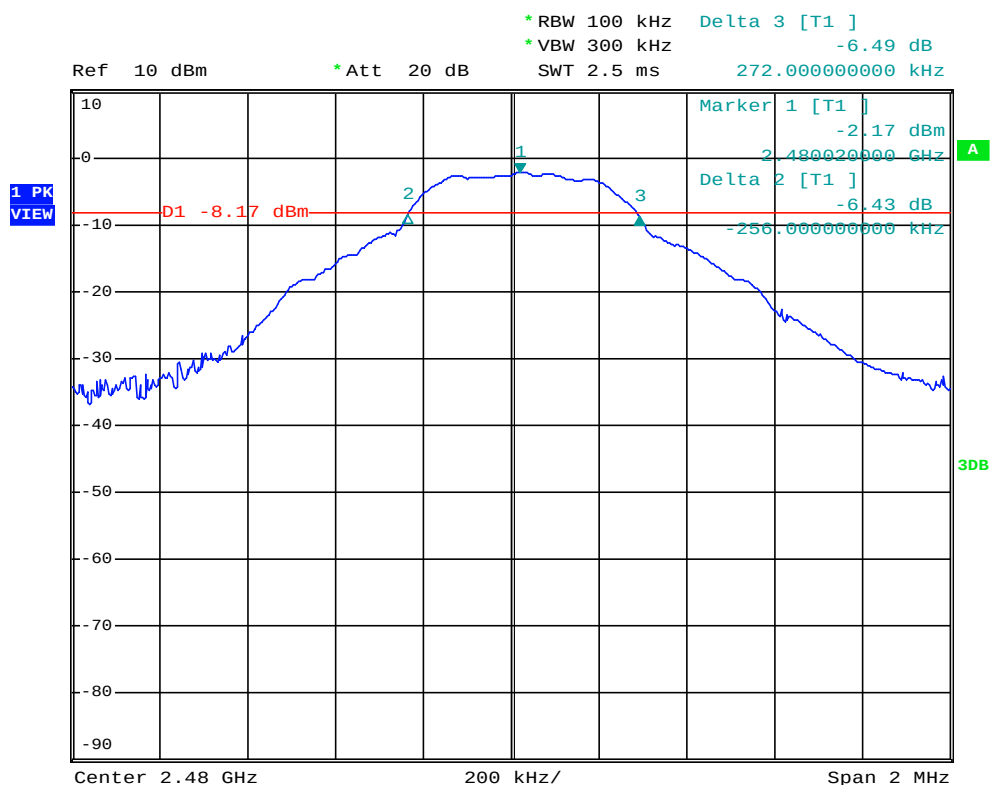
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6dB Bandwidth-BLE-M Channel



6dB Bandwidth-BLE-H Channel



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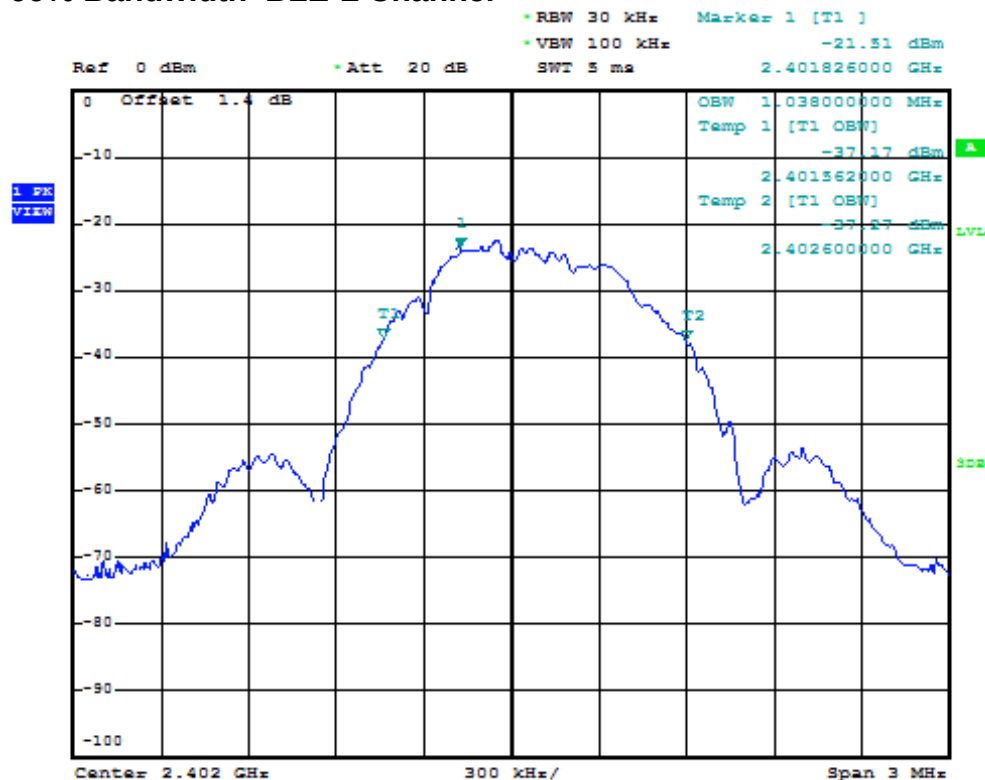
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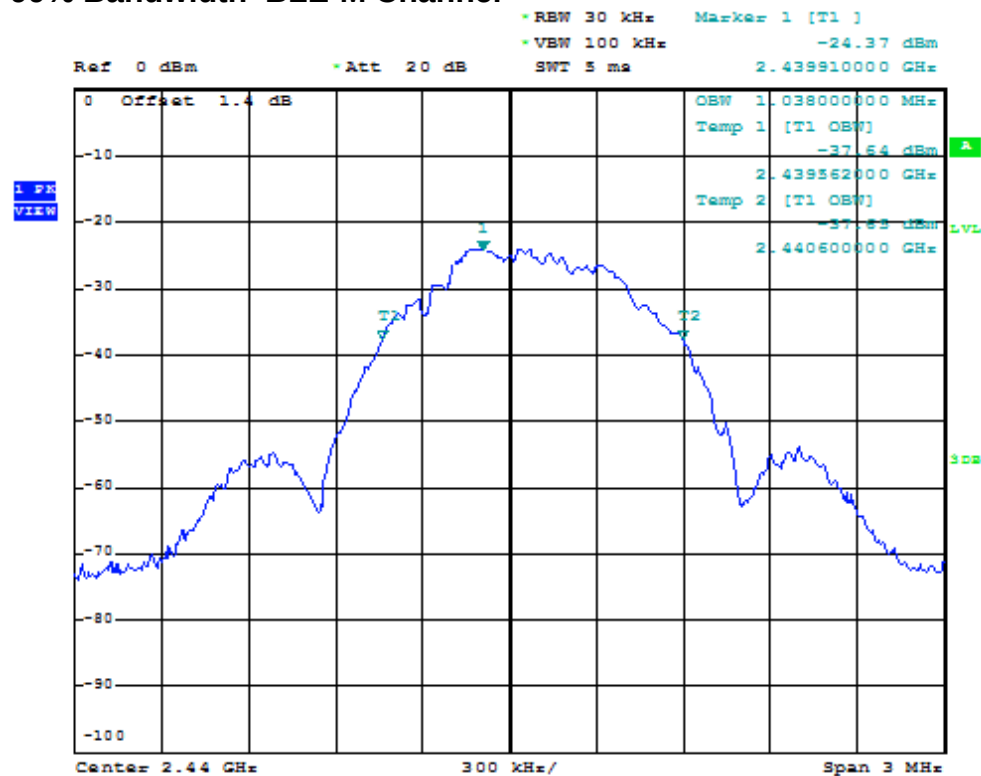
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99% Bandwidth-BLE-L Channel



99% Bandwidth-BLE-M Channel



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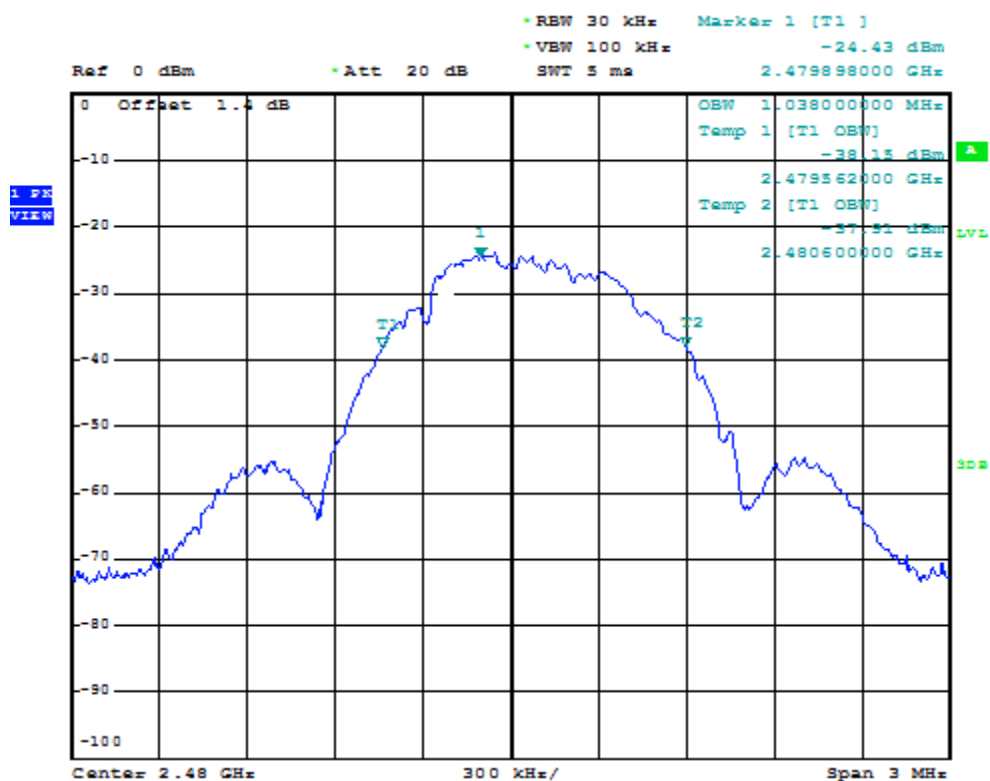
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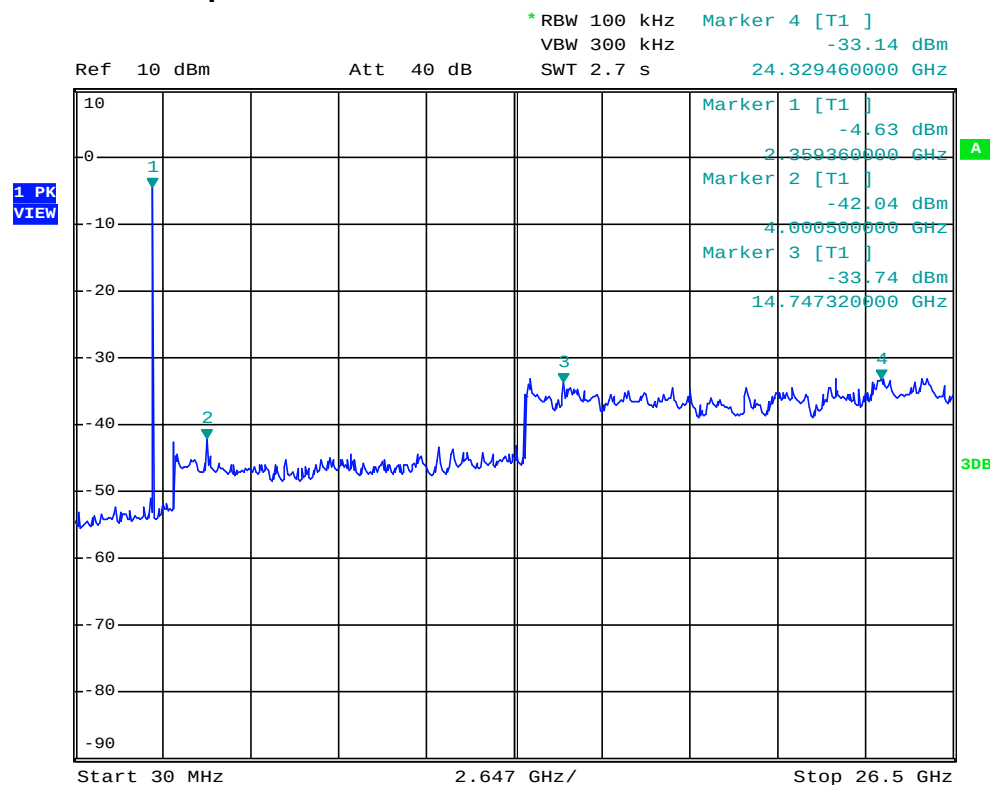
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99% Bandwidth-BLE-H Channel



Conducted Spurious Emissions -BLE-L Channel



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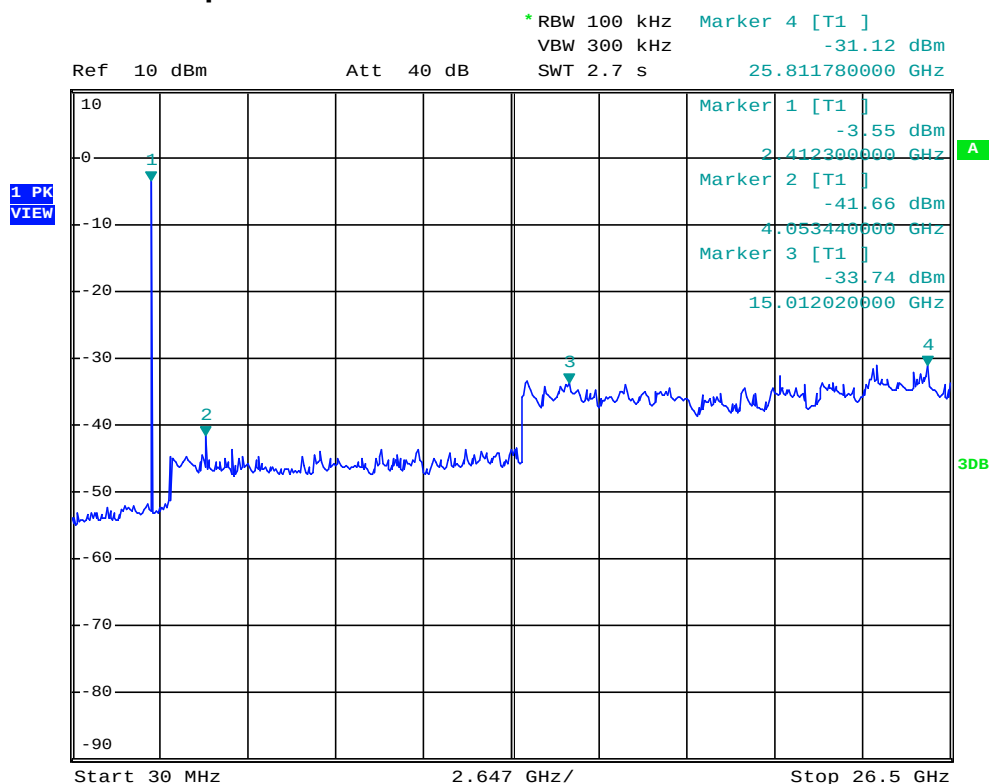
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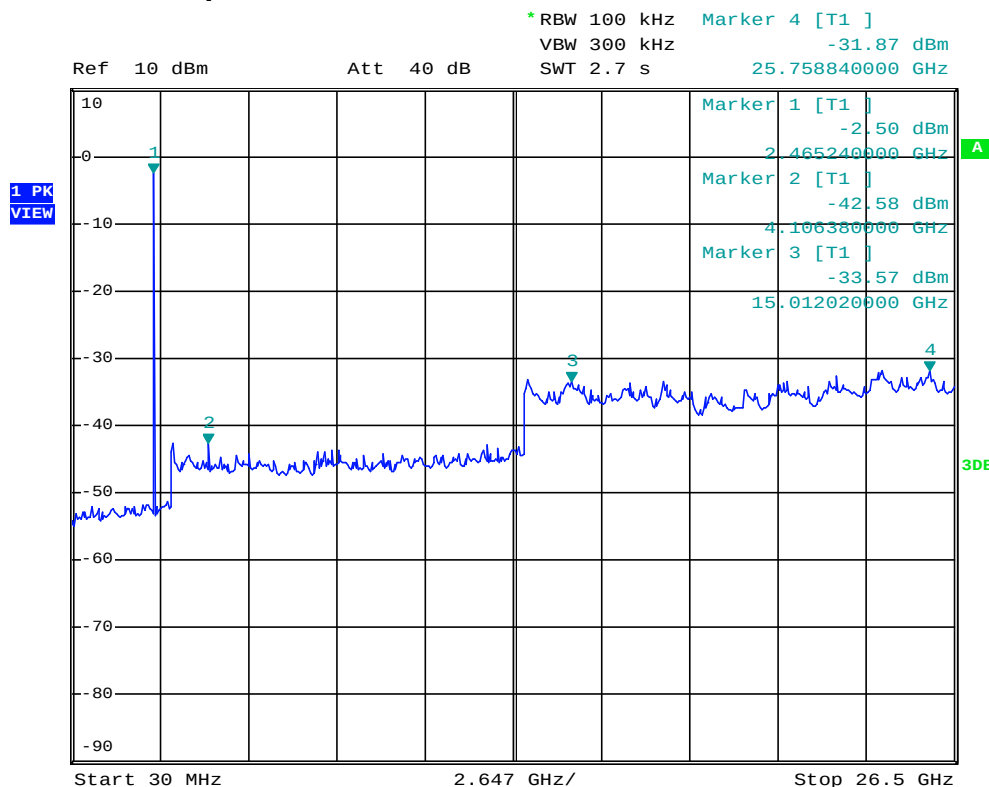
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Conducted Spurious Emissions –BLE-M Channel



Conducted Spurious Emissions –BLE-H Channel



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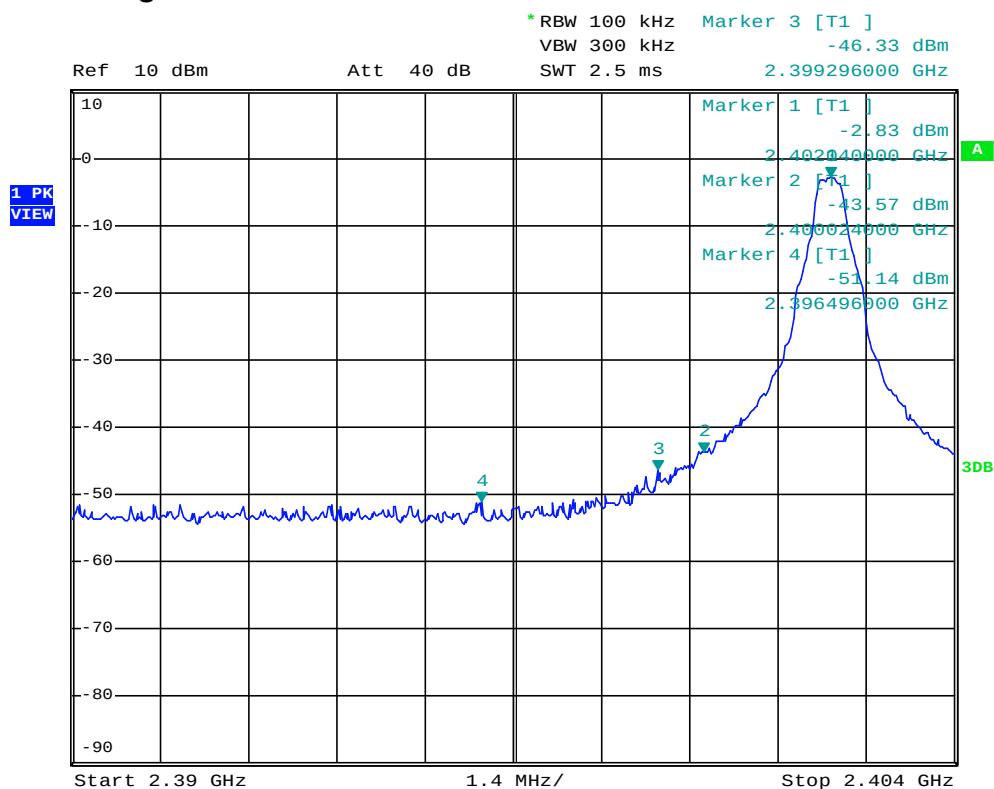
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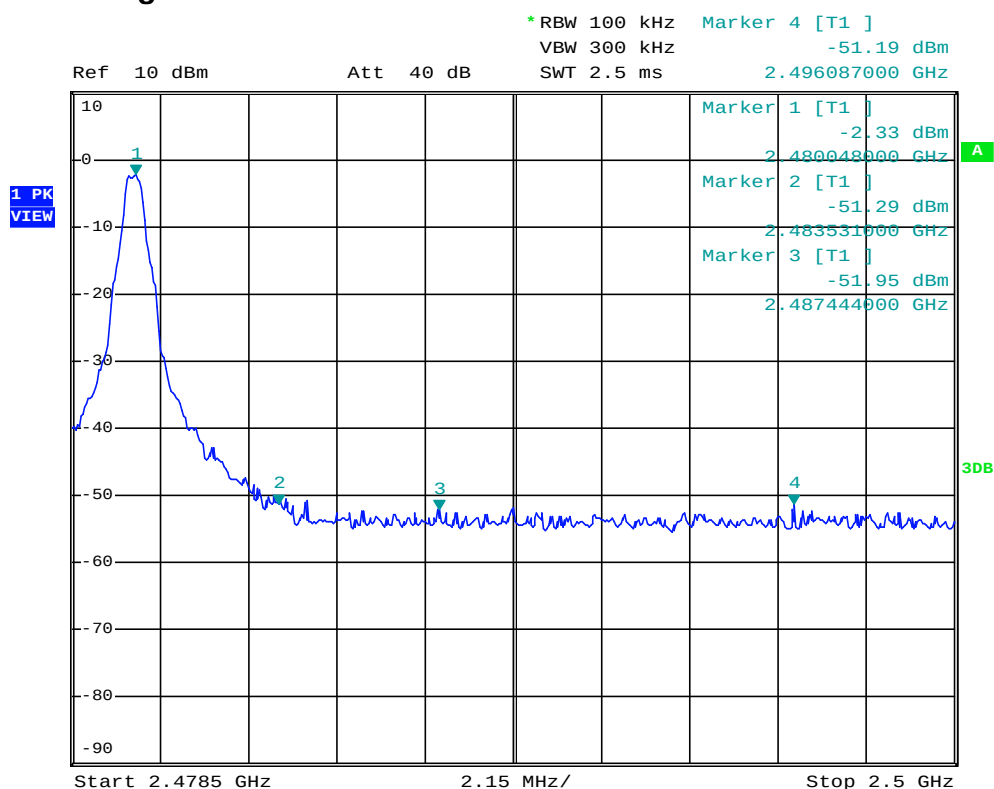
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Band Edge-BLE-L CH



Band Edge-BLE-H CH



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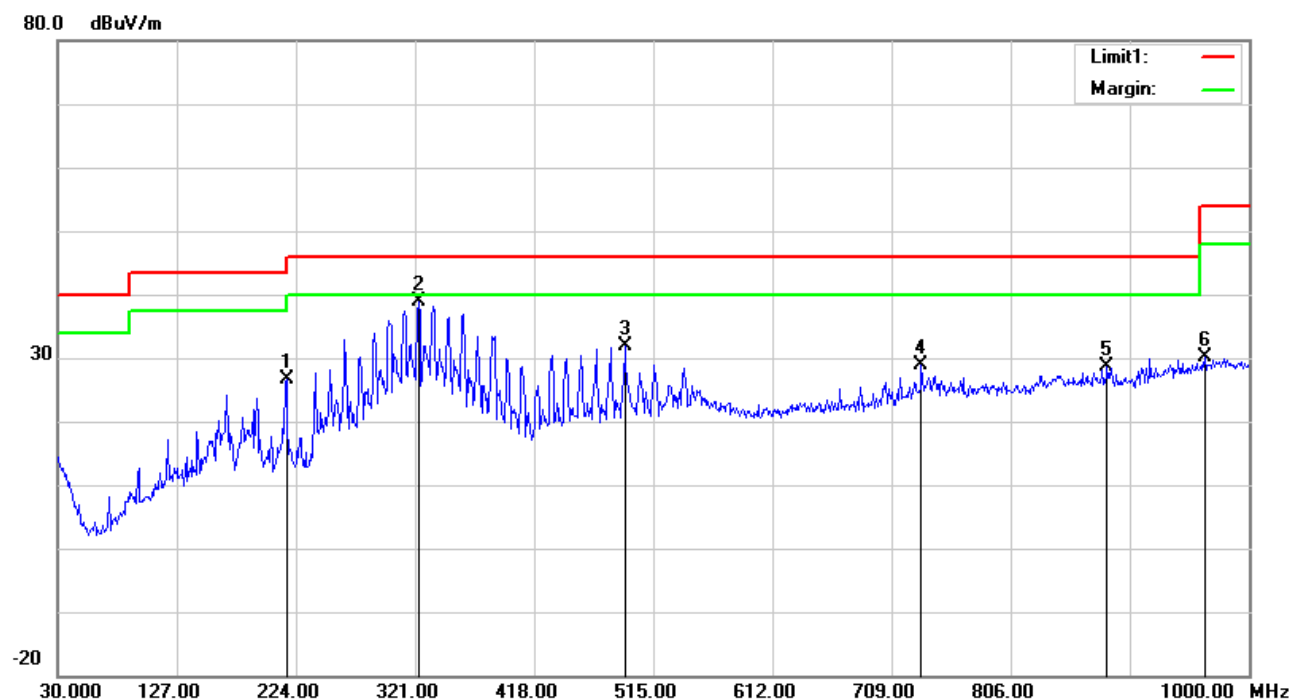
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Radiated Spurious Emissions Below 1GHz

Mode:	BLE_L CH	Ant.Polar.:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	216.2400	46.64	-20.05	26.59	46.00	-19.41	QP
2	323.9100	52.74	-13.88	38.86	46.00	-7.14	QP
3	491.7200	40.16	-8.18	31.98	46.00	-14.02	QP
4	733.2500	31.15	-2.35	28.80	46.00	-17.20	QP
5	884.5700	29.41	-0.67	28.74	46.00	-17.26	QP
6	964.1100	28.15	1.86	30.01	54.00	-23.99	QP

Prüfbericht - Nr.:

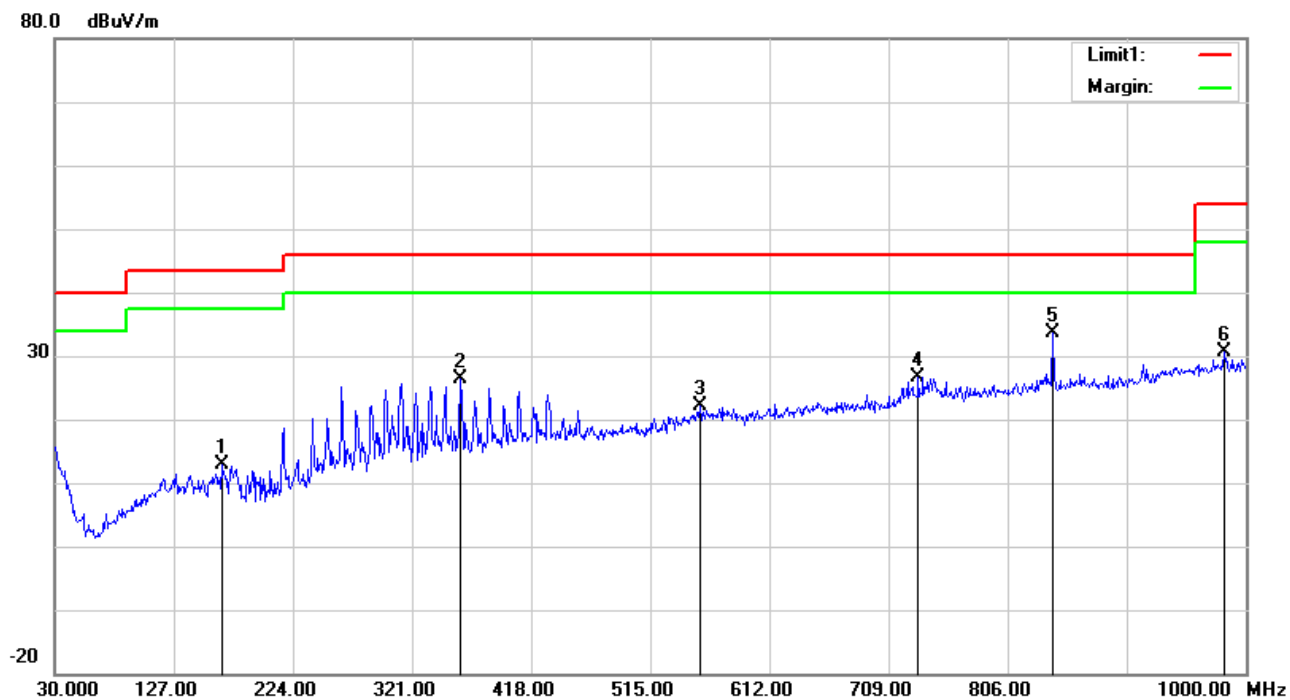
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Mode:	BLE_L CH	Ant.Polar.:	Vertical
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No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	165.8000	32.19	-19.40	12.79	43.50	-30.71	QP
2	359.8000	39.31	-12.87	26.44	46.00	-19.56	QP
3	555.7400	27.62	-5.60	22.02	46.00	-23.98	QP
4	733.2500	28.97	-2.35	26.62	46.00	-19.38	QP
5	842.8600	34.00	-0.46	33.54	46.00	-12.46	QP
6	982.5400	28.07	2.52	30.59	54.00	-23.41	QP

Prüfbericht - Nr.:

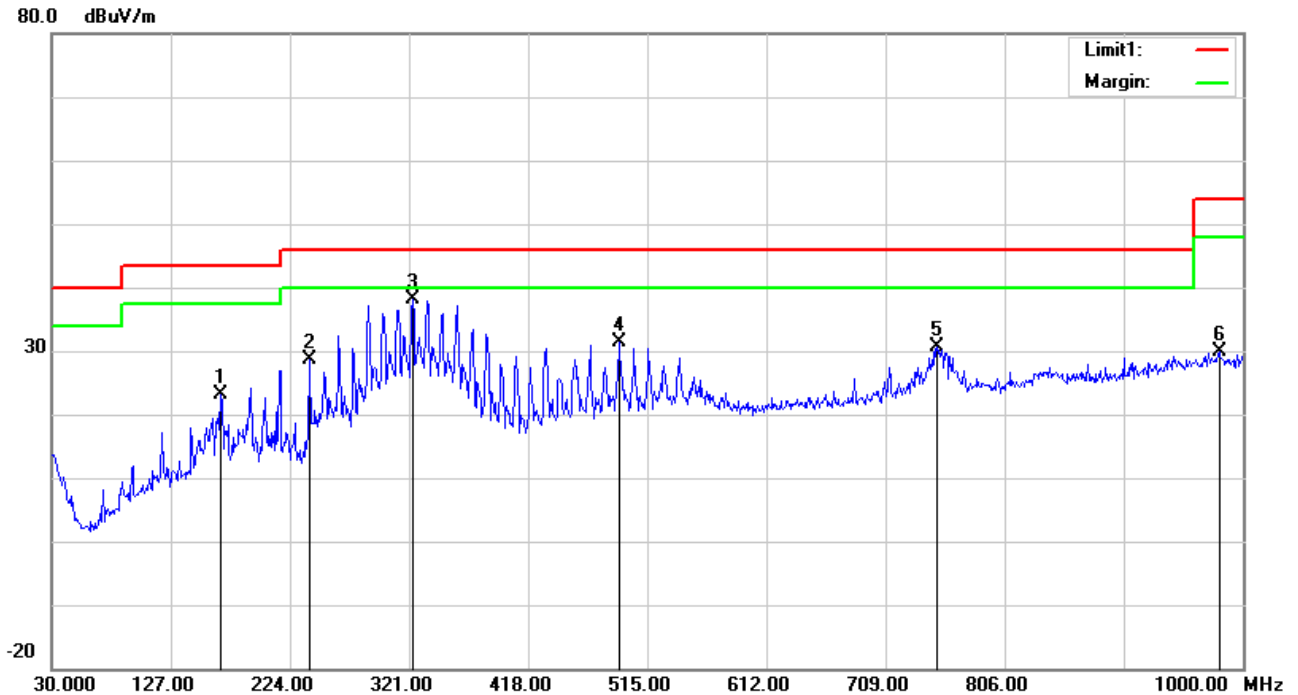
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Mode:	BLE_M CH	Ant.Polar.:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	167.7400	42.66	-19.58	23.08	43.50	-20.42	QP
2	239.5200	46.67	-18.10	28.57	46.00	-17.43	QP
3	323.9100	52.07	-13.88	38.19	46.00	-7.81	QP
4	491.7200	39.44	-8.18	31.26	46.00	-14.74	QP
5	750.7100	32.85	-2.16	30.69	46.00	-15.31	QP
6	980.6000	27.14	2.63	29.77	54.00	-24.23	QP

Prüfbericht - Nr.:

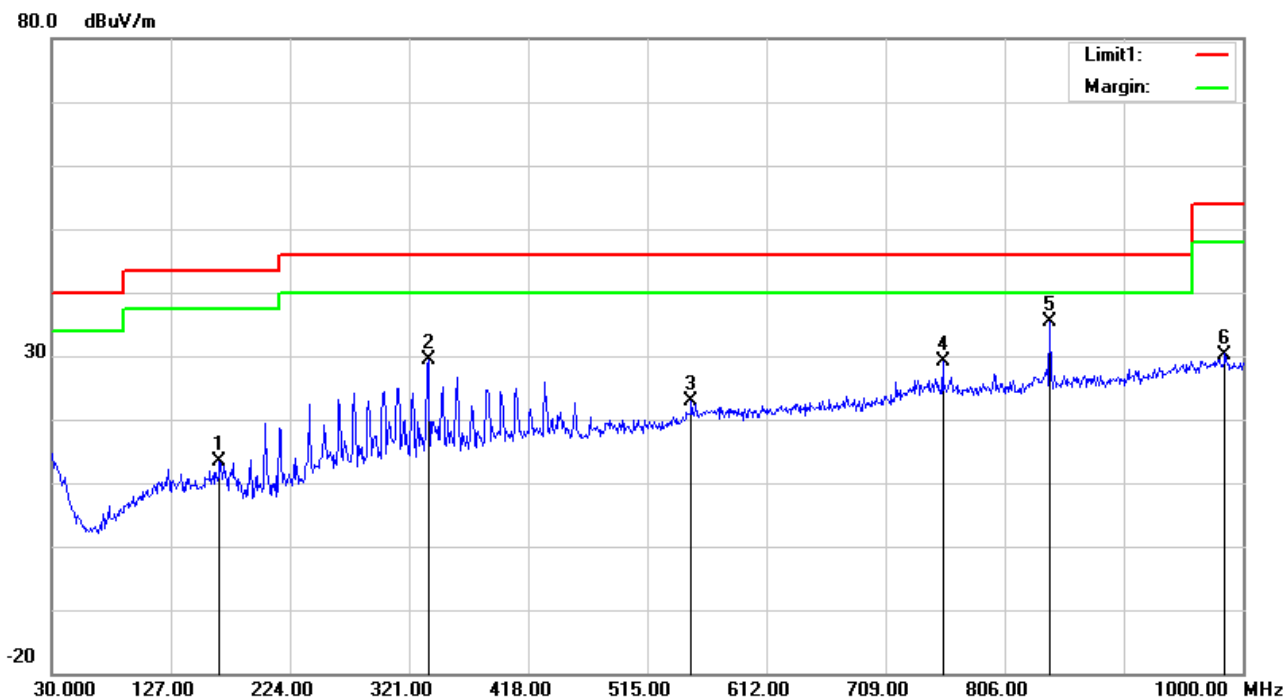
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Mode:	BLE_M CH	Ant.Polar.:	Vertical
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No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	166.7700	32.83	-19.49	13.34	43.50	-30.16	QP
2	336.5200	42.98	-13.51	29.47	46.00	-16.53	QP
3	550.8900	28.68	-5.74	22.94	46.00	-23.06	QP
4	755.5600	31.36	-2.17	29.19	46.00	-16.81	QP
5	842.8600	35.78	-0.46	35.32	46.00	-10.68	QP
6	985.4500	27.92	2.33	30.25	54.00	-23.75	QP

Prüfbericht - Nr.:

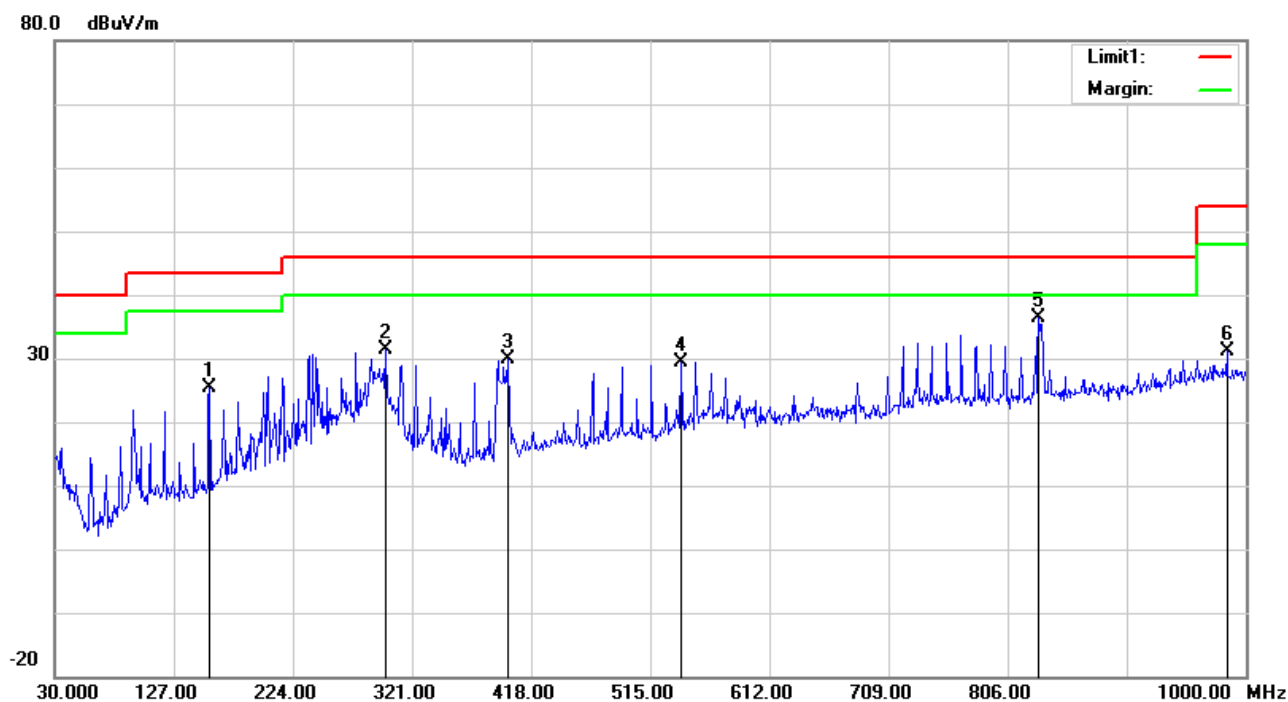
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Mode:	BLE_H CH	Ant.Polar.:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	156.1000	44.11	-18.66	25.45	43.50	-18.05	QP
2	299.6600	46.11	-14.82	31.29	46.00	-14.71	QP
3	398.6000	41.08	-11.20	29.88	46.00	-16.12	QP
4	540.2200	36.34	-6.84	29.50	46.00	-16.50	QP
5	831.2200	37.08	-0.70	36.38	46.00	-9.62	QP
6	984.4800	28.83	2.40	31.23	54.00	-22.77	QP

Prüfbericht - Nr.:

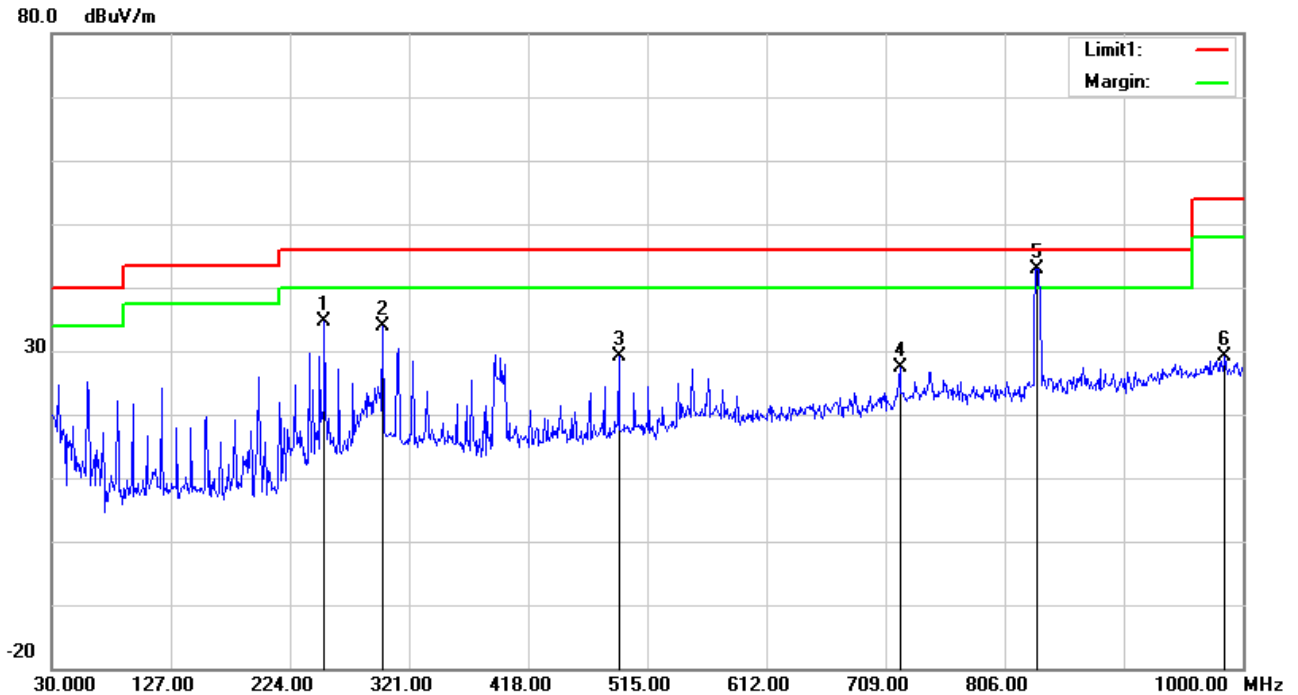
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Mode:	BLE_H CH	Ant.Polar.:	Vertical
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No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	252.1300	50.45	-15.80	34.65	46.00	-11.35	QP
2	299.6600	48.70	-14.82	33.88	46.00	-12.12	QP
3	491.7200	37.28	-8.18	29.10	46.00	-16.90	QP
4	720.6400	30.59	-3.20	27.39	46.00	-18.61	QP
5	832.1900	43.59	-0.66	42.93	46.00	-3.07	QP
6	985.4500	26.69	2.33	29.02	54.00	-24.98	QP

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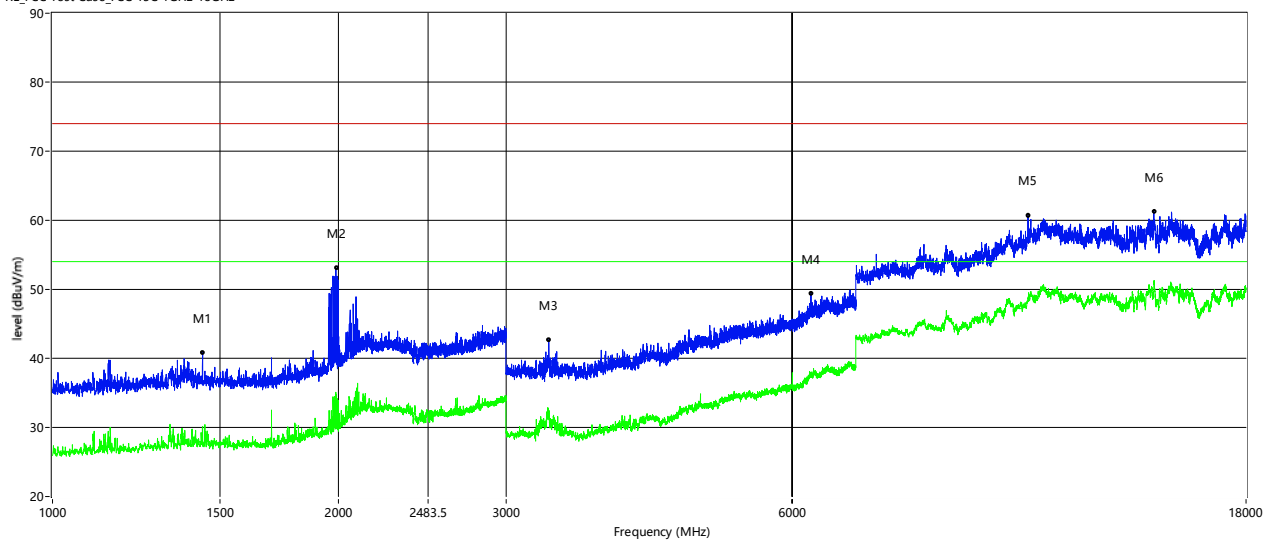
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Above 1GHz

BLE_L

RE_FCC Test Case_FCC 15C 1GHz-18GHz



Frequency (MHz)	Peak Reading (dBuV/m)	Average Reading (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin (dB)	ANT
1439	41.43	30.74	-0.6	40.83	30.14	74.00	54.00	-33.17	-23.86	-23.86	Horizontal
1987.5	51.77	33.73	1.38	53.15	35.11	74.00	54.00	-20.85	-18.89	-18.89	Horizontal
3327	54.80	44.61	-12.09	42.71	32.52	74.00	54.00	-31.29	-21.48	-21.48	Horizontal
6280	51.09	39.51	-1.6	49.49	37.91	74.00	54.00	-24.51	-16.09	-16.09	Horizontal
10619	52.53	40.63	8.15	60.68	48.78	74.00	54.00	-13.32	-5.22	-5.22	Horizontal
14405.75	49.93	39.84	11.36	61.29	51.20	74.00	54.00	-12.71	-2.80	-2.80	Horizontal

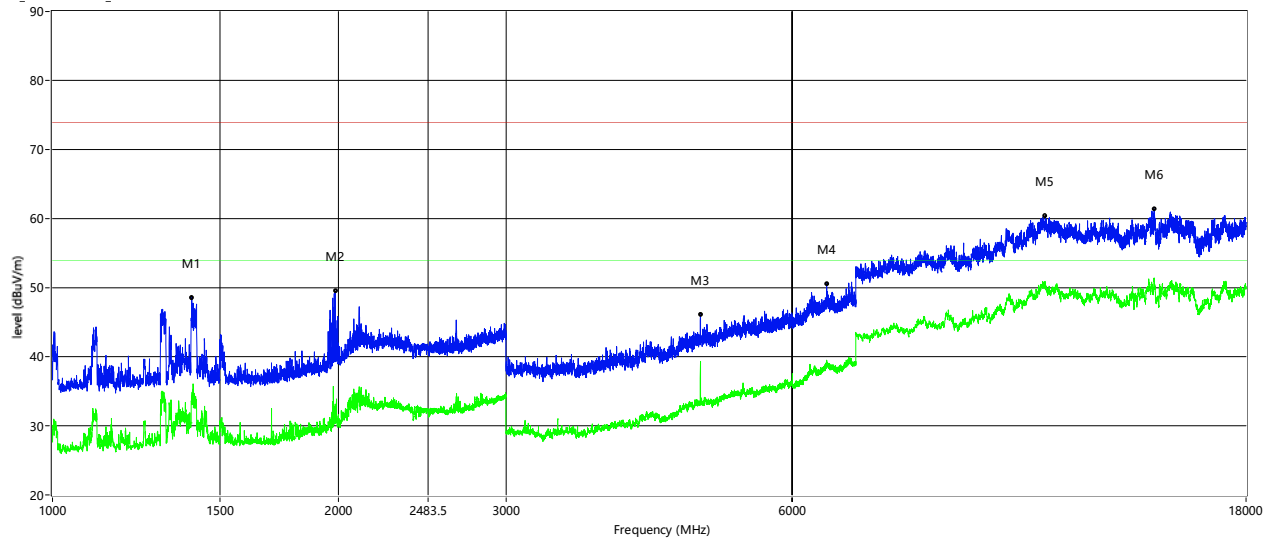
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BLE_L

RE_FCC Test Case_FCC 15C 1GHz-18GHz



Frequency (MHz)	Peak Reading (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin (dB)	ANT
1401	49.24	34.60	-0.66	48.58	33.94	74.00	54.00	-25.42	-20.06	-20.06	Vertical
1983	48.17	31.84	1.34	49.51	33.18	74.00	54.00	-24.49	-20.82	-20.82	Vertical
4804	53.07	46.27	-6.96	46.11	39.31	74.00	54.00	-27.89	-14.69	-14.69	Vertical
6524	51.01	39.93	-0.41	50.60	39.52	74.00	54.00	-23.40	-14.48	-14.48	Vertical
11070	50.57	40.08	9.84	60.41	49.92	74.00	54.00	-13.59	-4.08	-4.08	Vertical
14411.25	50.15	40.12	11.29	61.44	51.41	74.00	54.00	-12.56	-2.59	-2.59	Vertical

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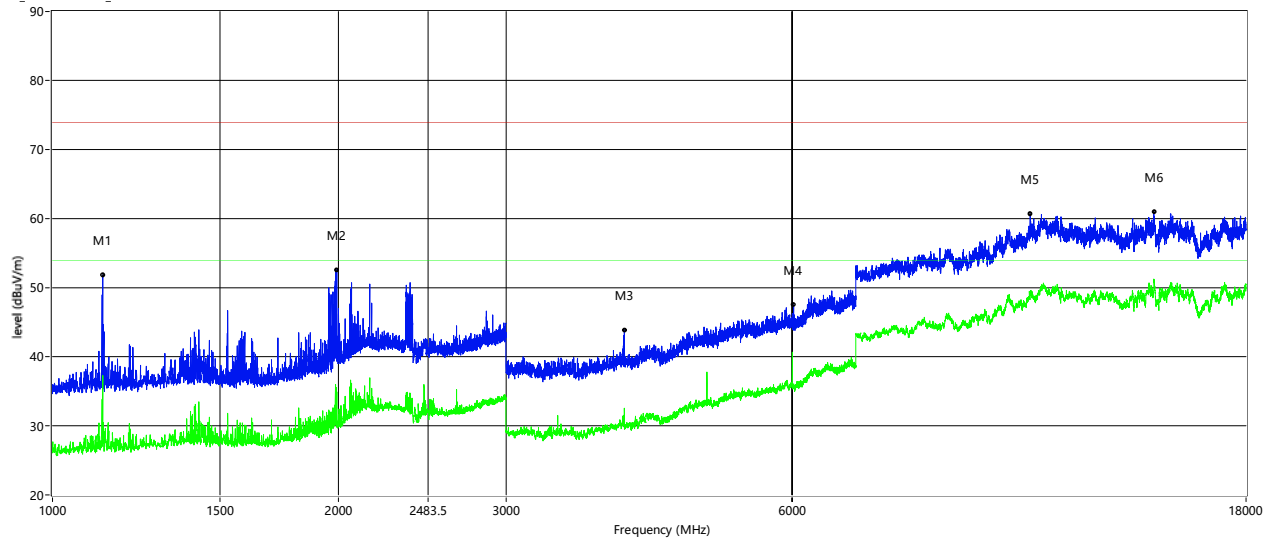
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BLE_M

RE_FCC Test Case_FCC 15C 1GHz-18GHz



Frequency (MHz)	Peak Reading (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin (dB)	ANT
1129.5	53.26	38.69	-1.42	51.84	37.27	74.00	54.00	-22.16	-16.73	-16.73	Horizontal
1991	51.23	33.49	1.41	52.64	34.90	74.00	54.00	-21.36	-19.10	-19.10	Horizontal
3996	54.11	42.74	-10.19	43.92	32.55	74.00	54.00	-30.08	-21.45	-21.45	Horizontal
6019	50.45	38.69	-2.93	47.52	35.76	74.00	54.00	-26.48	-18.24	-18.24	Horizontal
10676.75	52.39	40.93	8.29	60.68	49.22	74.00	54.00	-13.32	-4.78	-4.78	Horizontal
14397.5	49.60	38.35	11.41	61.01	49.76	74.00	54.00	-12.99	-4.24	-4.24	Horizontal

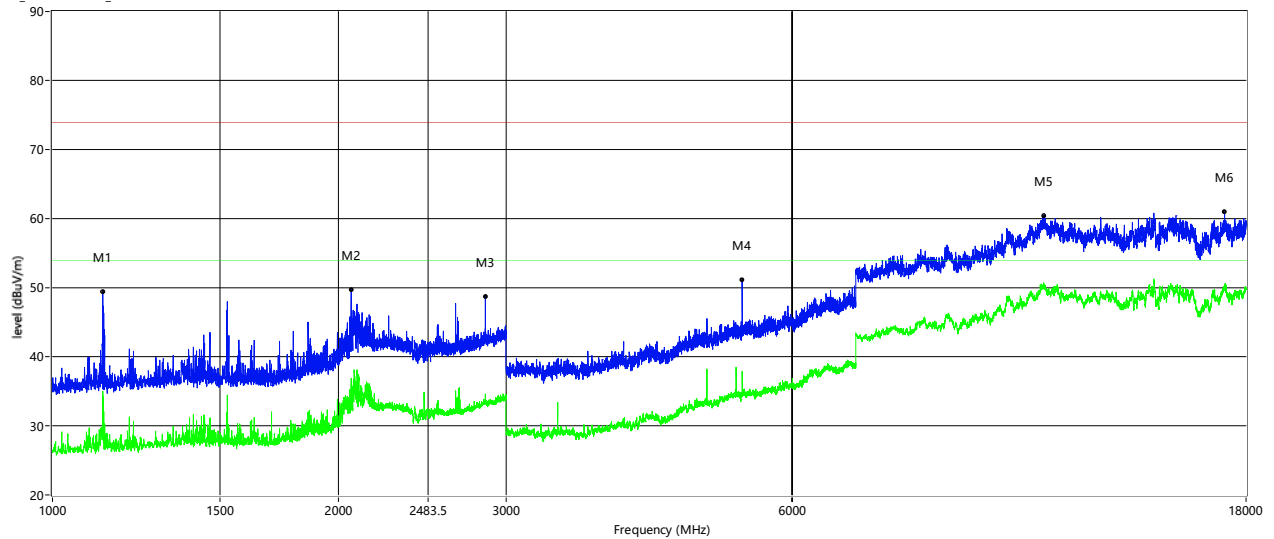
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BLE_M

RE_FCC Test Case_FCC 15C 1GHz-18GHz



Frequency (MHz)	Peak Reading (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin (dB)	ANT
1130	50.83	36.41	-1.42	49.41	34.99	74.00	54.00	-24.59	-19.01	-19.01	Vertical
2061.5	46.68	33.81	3.05	49.73	36.86	74.00	54.00	-24.27	-17.14	-17.14	Vertical
2854	43.15	28.96	5.61	48.76	34.57	74.00	54.00	-25.24	-19.43	-19.43	Vertical
5316	56.16	42.85	-4.97	51.19	37.88	74.00	54.00	-22.81	-16.12	-16.12	Vertical
11028.75	50.39	40.28	10.06	60.45	50.34	74.00	54.00	-13.55	-3.66	-3.66	Vertical
17092.5	50.52	40.07	10.43	60.95	50.50	74.00	54.00	-13.05	-3.50	-3.50	Vertical

Prüfbericht - Nr.:

CN22DEJD 001

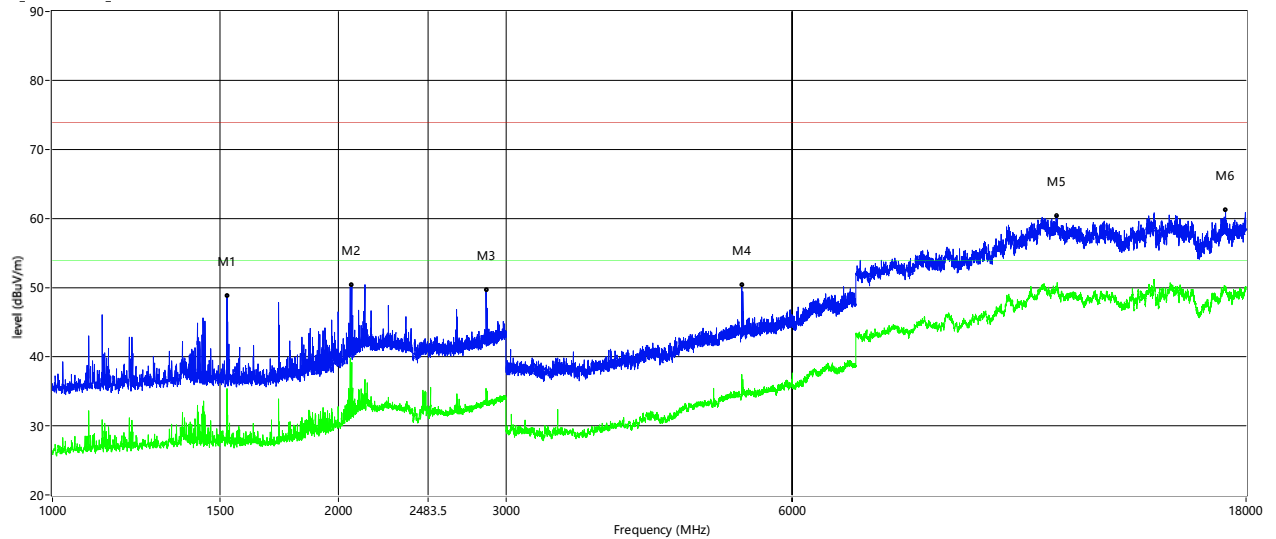
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Test Report No.

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BLE_H

RE_FCC Test Case_FCC 15C 1GHz-18GHz



Frequency (MHz)	Peak Reading (dBuV/m)	Average Reading (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin (dB)	ANT
1526.5	49.45	35.96	-0.59	48.86	35.37	74.00	54.00	-25.14	-18.63	-18.63	Horizontal
2064.5	47.35	36.09	3.1	50.45	39.19	74.00	54.00	-23.55	-14.81	-14.81	Horizontal
2858.5	44.05	29.83	5.61	49.66	35.44	74.00	54.00	-24.34	-18.56	-18.56	Horizontal
5311	55.39	42.41	-4.98	50.41	37.43	74.00	54.00	-23.59	-16.57	-16.57	Horizontal
11367	50.82	40.06	9.67	60.49	49.73	74.00	54.00	-13.51	-4.27	-4.27	Horizontal
17139.25	50.99	39.60	10.26	61.25	49.86	74.00	54.00	-12.75	-4.14	-4.14	Horizontal

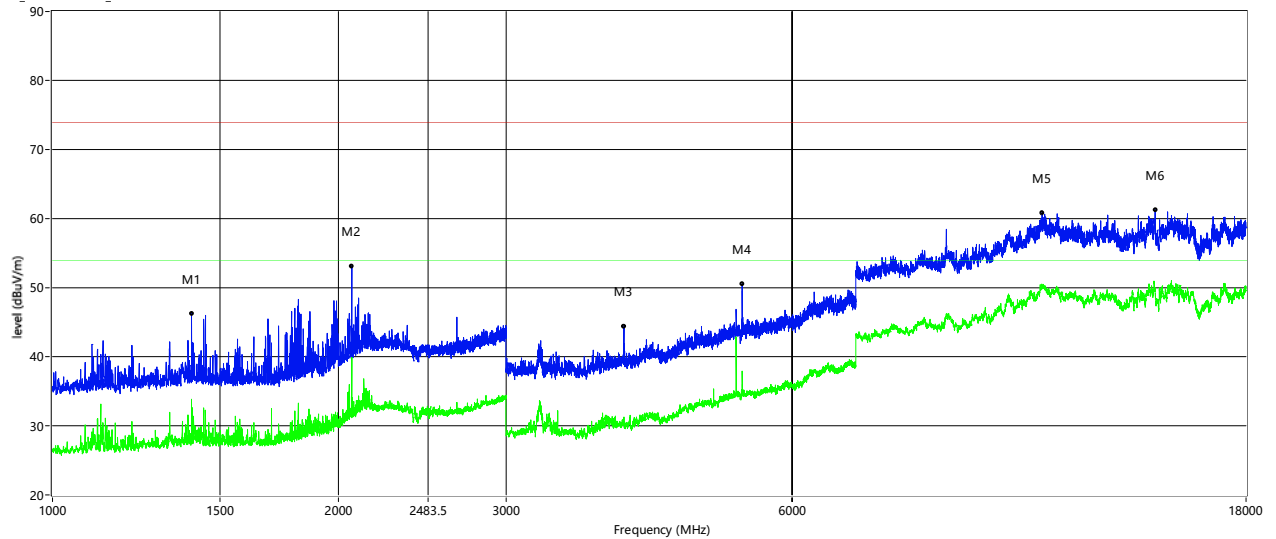
Prüfbericht - Nr.:
Test Report No.

CN22DEJD 001

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BLE_H

RE_FCC Test Case_FCC 15C 1GHz-18GHz



Frequency (MHz)	Peak Reading (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin (dB)	ANT
1400.5	47.01	34.51	-0.66	46.35	33.85	74.00	54.00	-27.65	-20.15	-20.15	Vertical
2064.5	50.06	36.81	3.1	53.16	39.91	74.00	54.00	-20.84	-14.09	-14.09	Vertical
3991	54.64	40.84	-10.22	44.42	30.62	74.00	54.00	-29.58	-23.38	-23.38	Vertical
5316	55.57	42.90	-4.97	50.60	37.93	74.00	54.00	-23.40	-16.07	-16.07	Vertical
10984.75	50.82	40.15	10.1	60.92	50.25	74.00	54.00	-13.08	-3.75	-3.75	Vertical
14449.75	50.43	38.38	10.84	61.27	49.22	74.00	54.00	-12.73	-4.78	-4.78	Vertical

Prüfbericht - Nr.:

CN22DEJD 001

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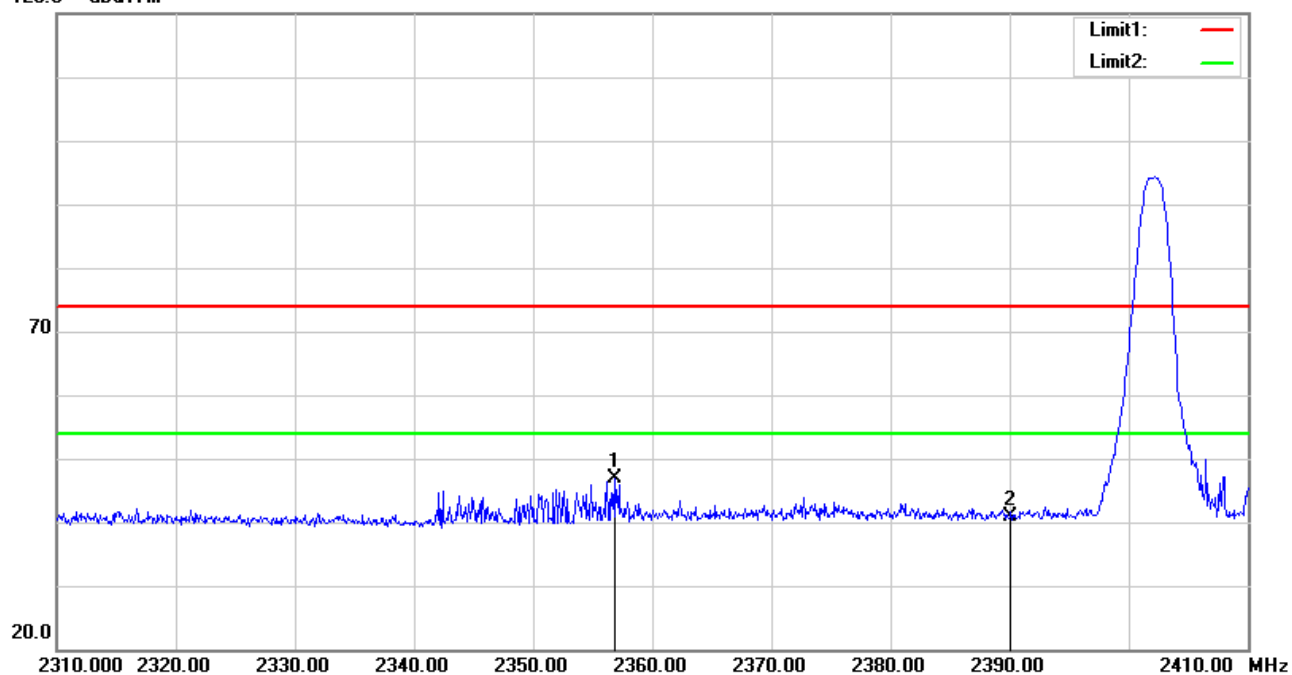
Test Report No.

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Band Edge-BLE

Mode:	BLE_L CH	Ant.Polar.:	Horizontal
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120.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2356.800	42.99	3.84	46.83	74.00	-27.17	peak
2	2390.000	36.43	4.34	40.77	74.00	-33.23	peak

Prüfbericht - Nr.:

CN22DEJD 001

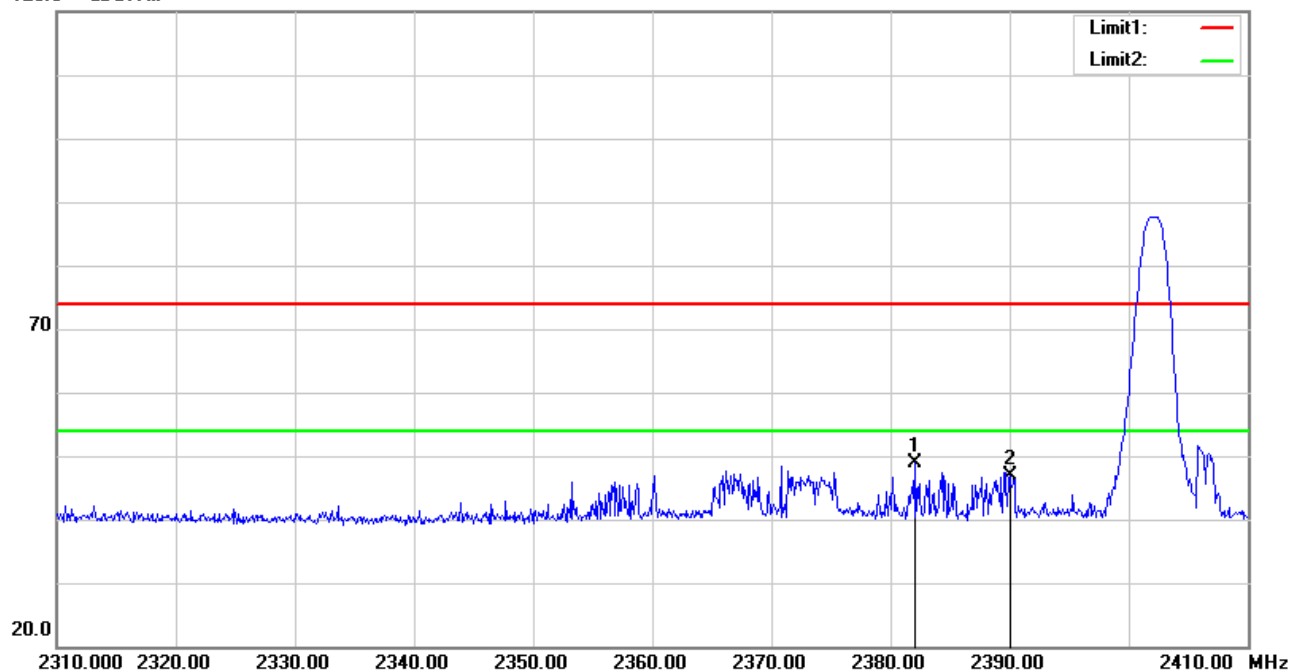
Seite 21 von 23

Test Report No.

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Mode:	BLE_L CH	Ant.Polar.:	Vertical
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120.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2382.100	44.65	4.22	48.87	74.00	-25.13	peak
2	2390.000	42.58	4.34	46.92	74.00	-27.08	peak

Prüfbericht - Nr.:

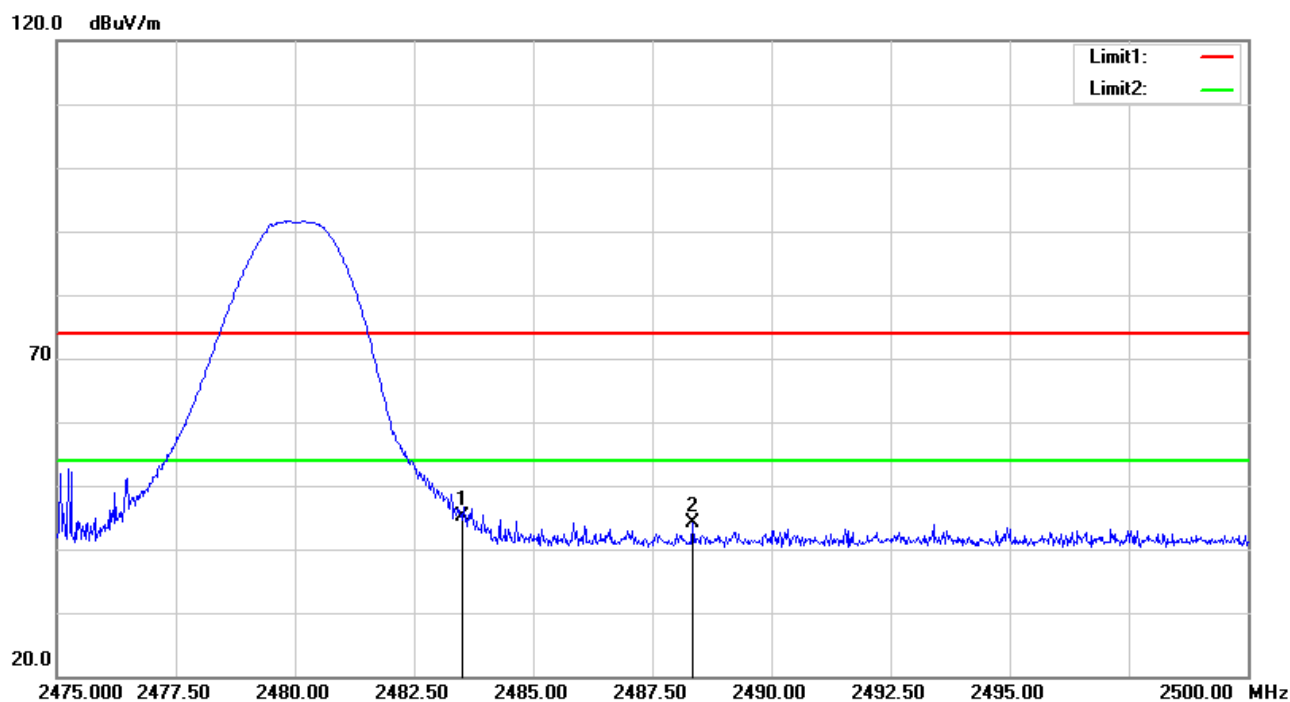
CN22DEJD 001

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Test Report No.

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Mode:	BLE_H CH	Ant.Polar.:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	40.58	4.60	45.18	74.00	-28.82	peak
2	2488.350	39.49	4.62	44.11	74.00	-29.89	peak

Prüfbericht - Nr.:

CN22DEJD 001

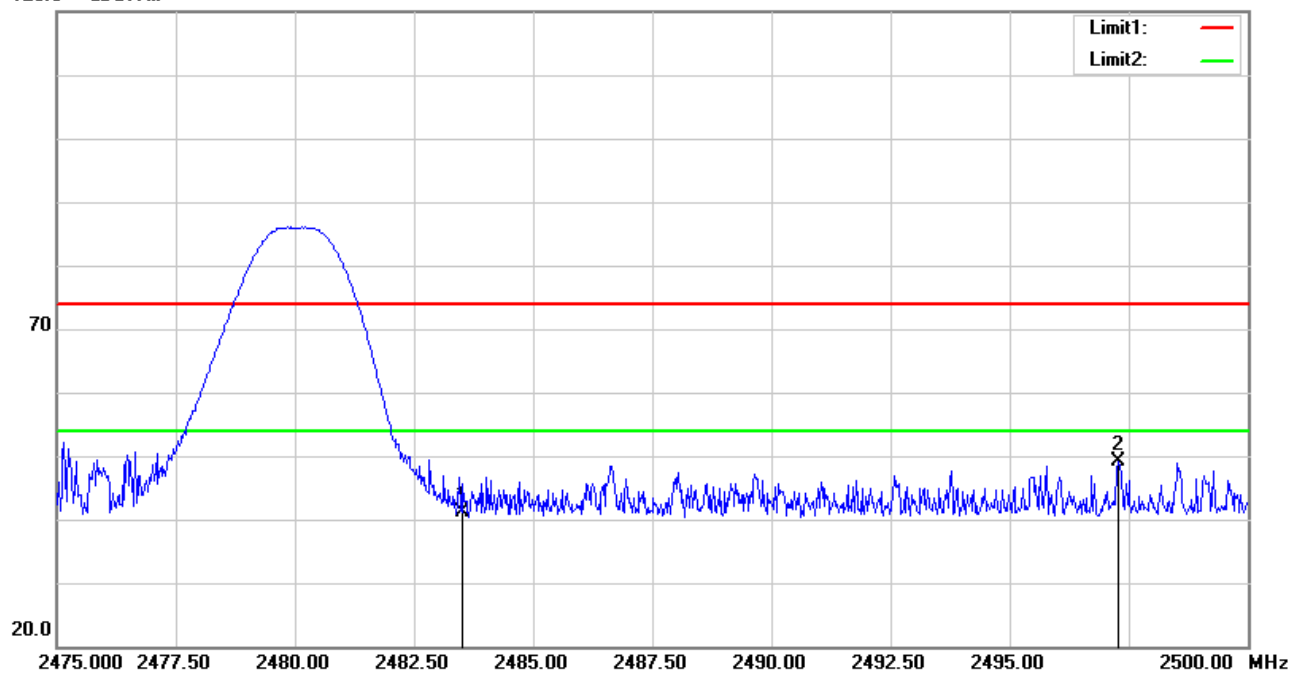
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Test Report No.

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Mode:	BLE_H CH	Ant.Polar.:	Vertical
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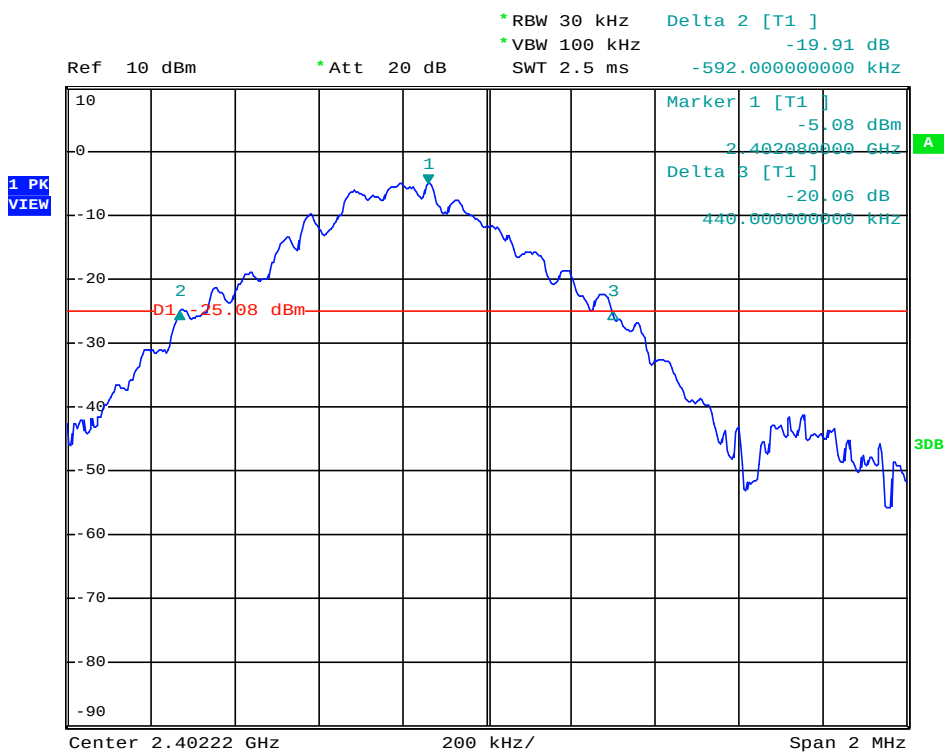
120.0 dBuV/m



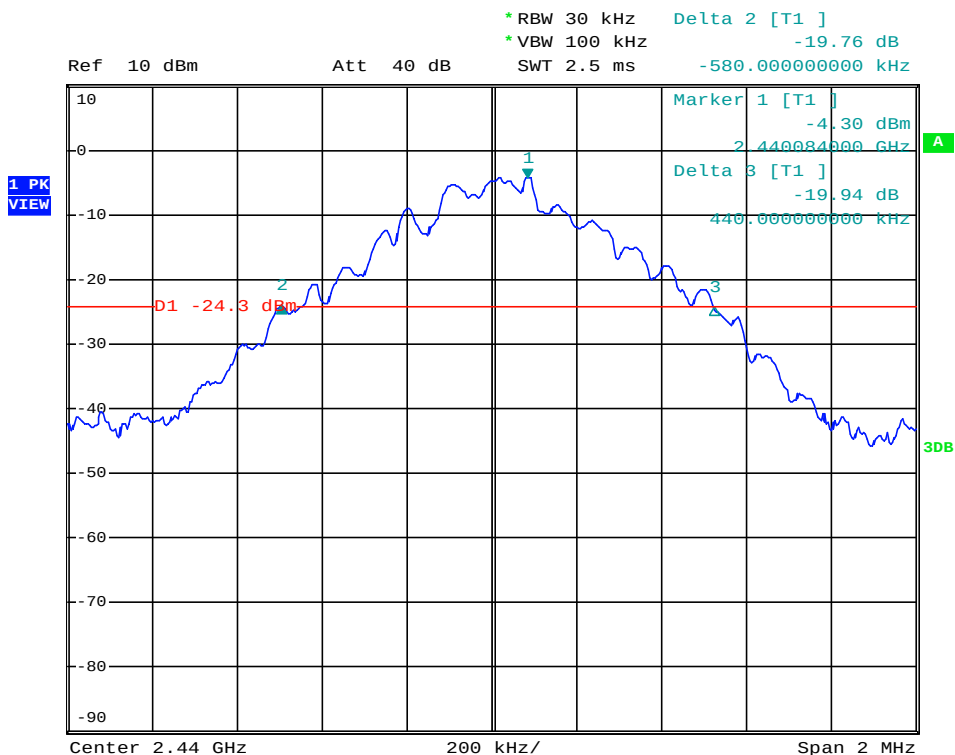
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	36.65	4.60	41.25	74.00	-32.75	peak
2	2497.275	44.47	4.64	49.11	74.00	-24.89	peak

20dB Bandwidth

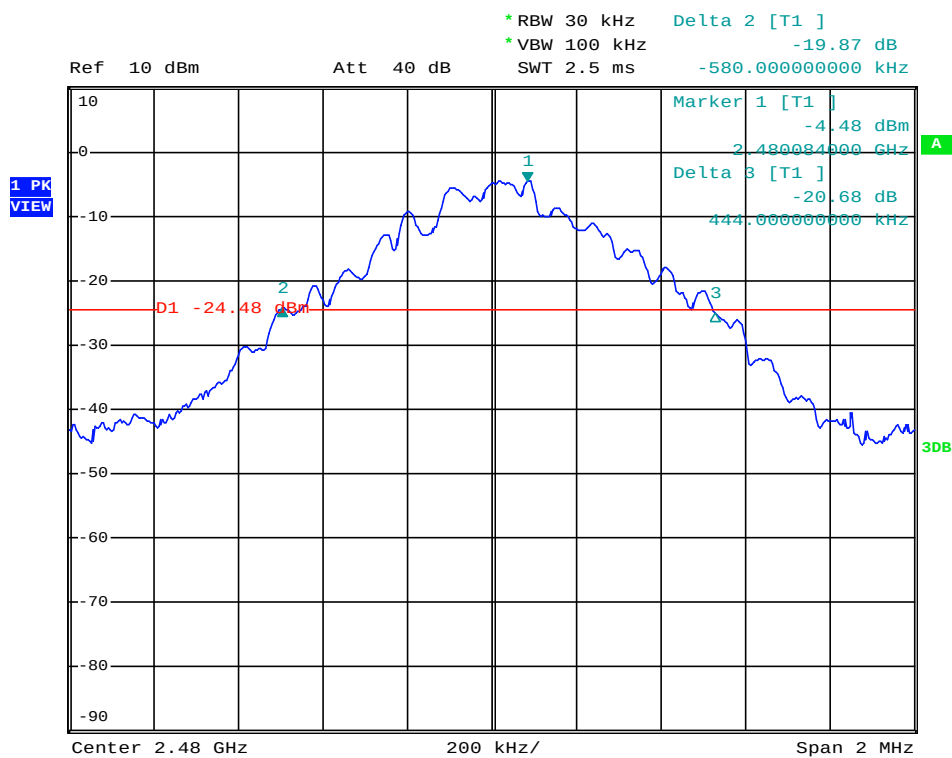
Low Channel of GFSK mode



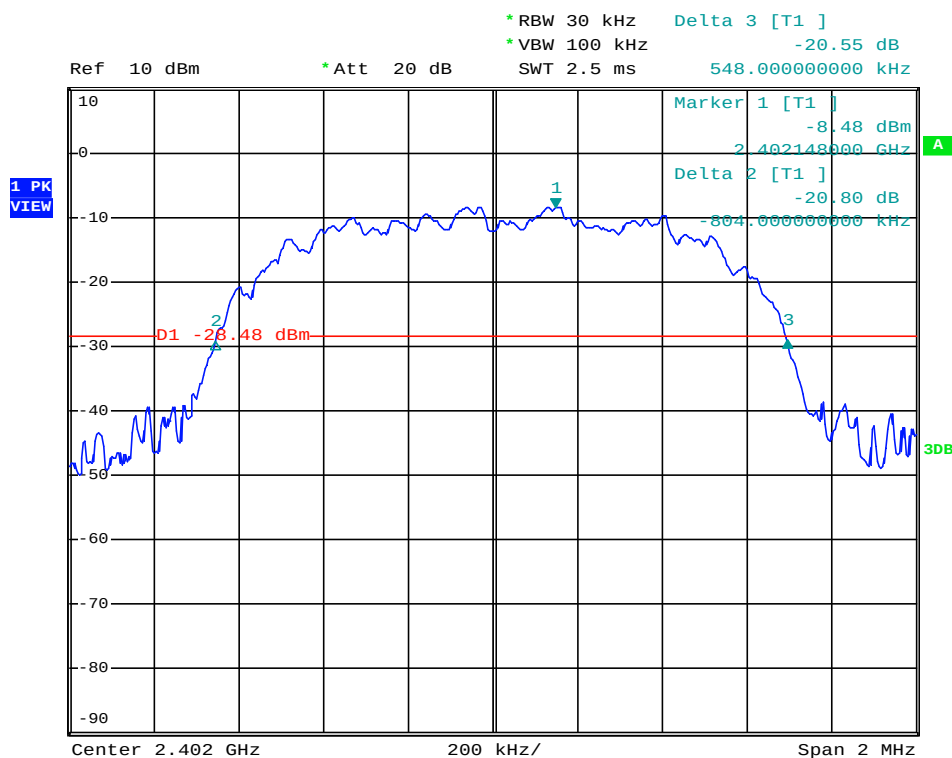
Middle Channel of GFSK mode



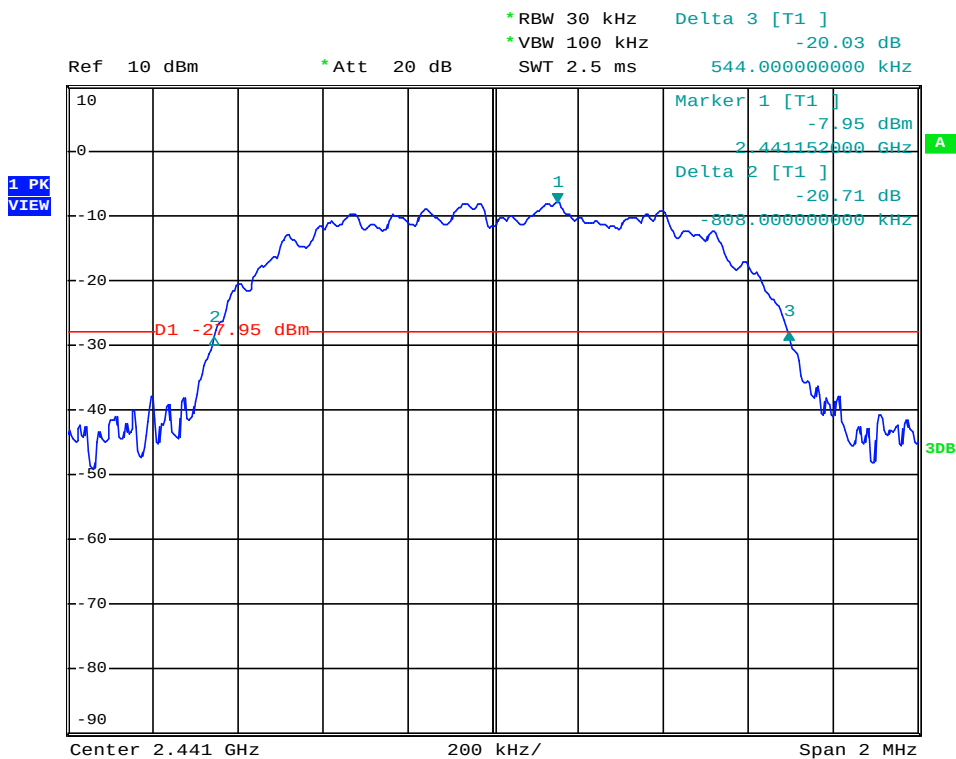
High Channel of GFSK mode



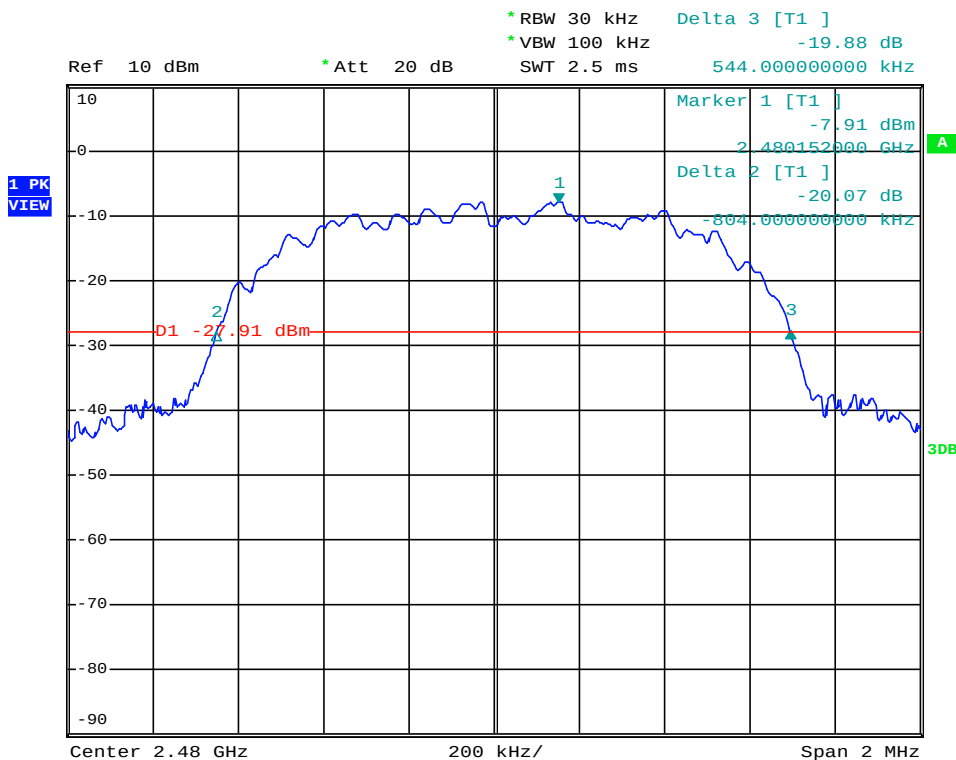
Low Channel of 8-DPSK mode



Middle Channel of 8-DPSK mode

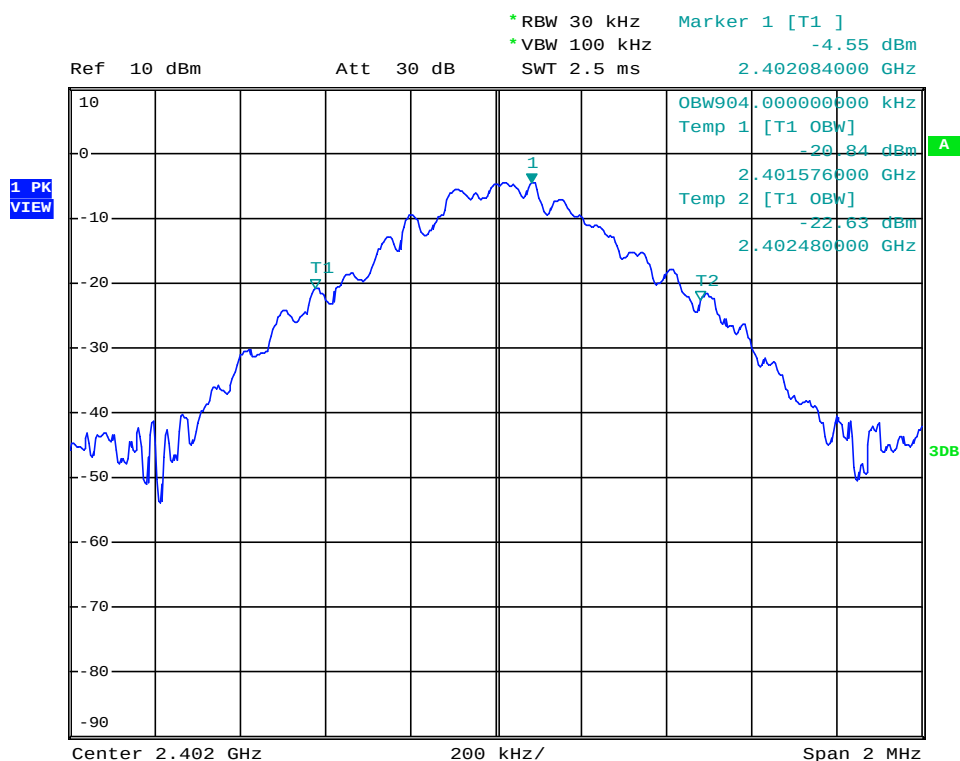


High Channel of 8-DPSK mode

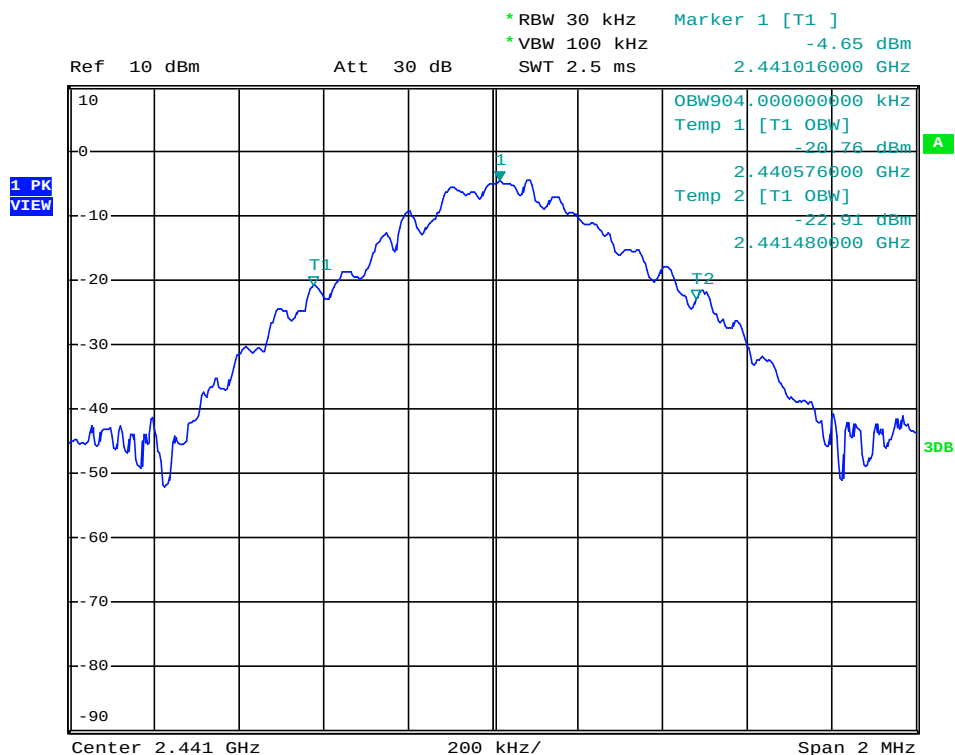


99% Bandwidth

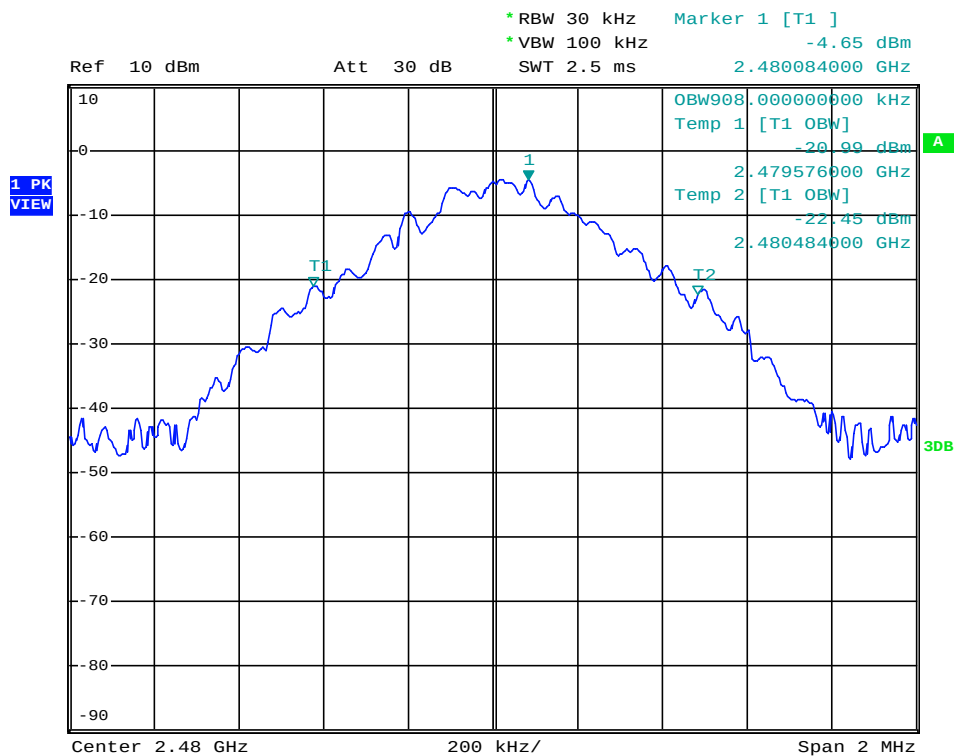
Low Channel of GFSK mode



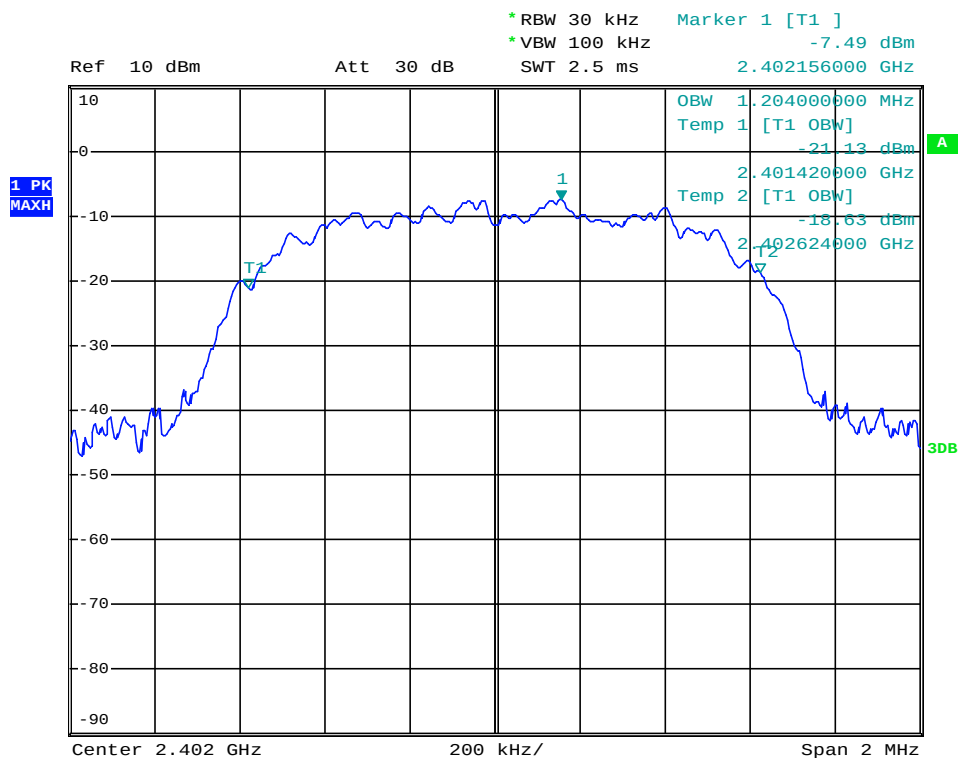
Middle Channel of GFSK mode



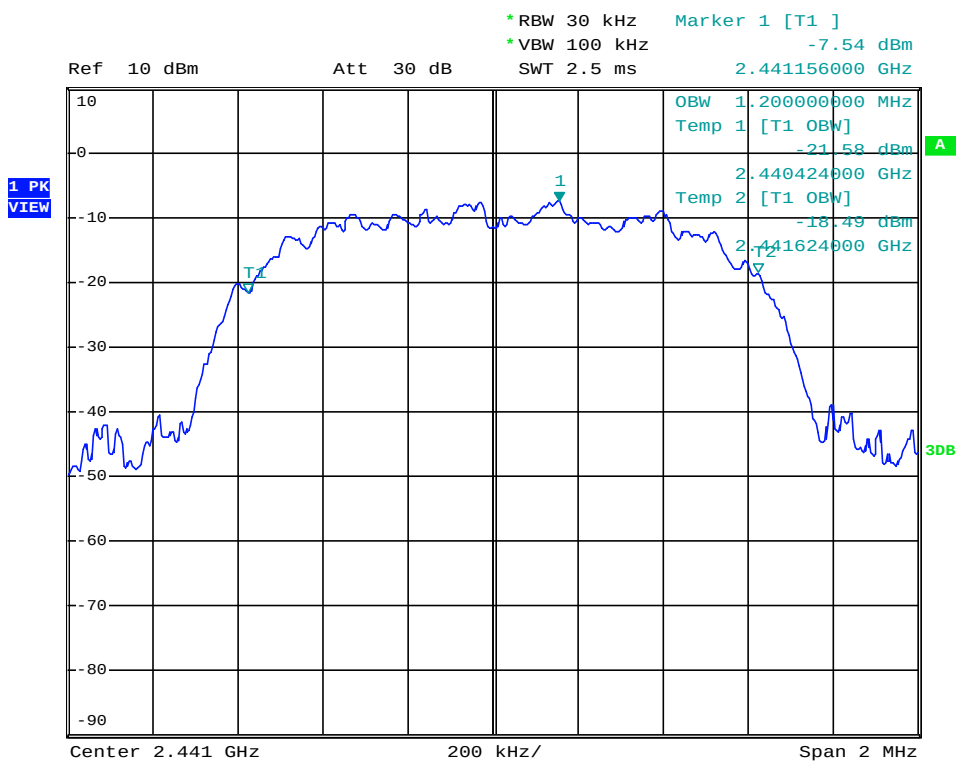
High Channel of GFSK mode



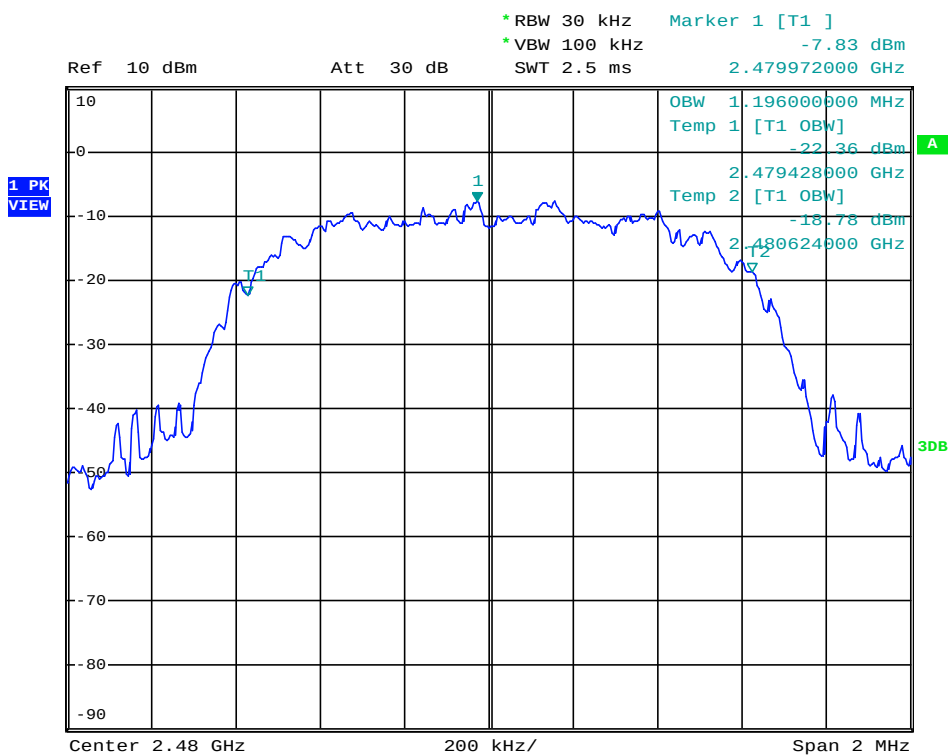
Low Channel of 8-DPSK mode



Middle Channel of 8-DPSK mode

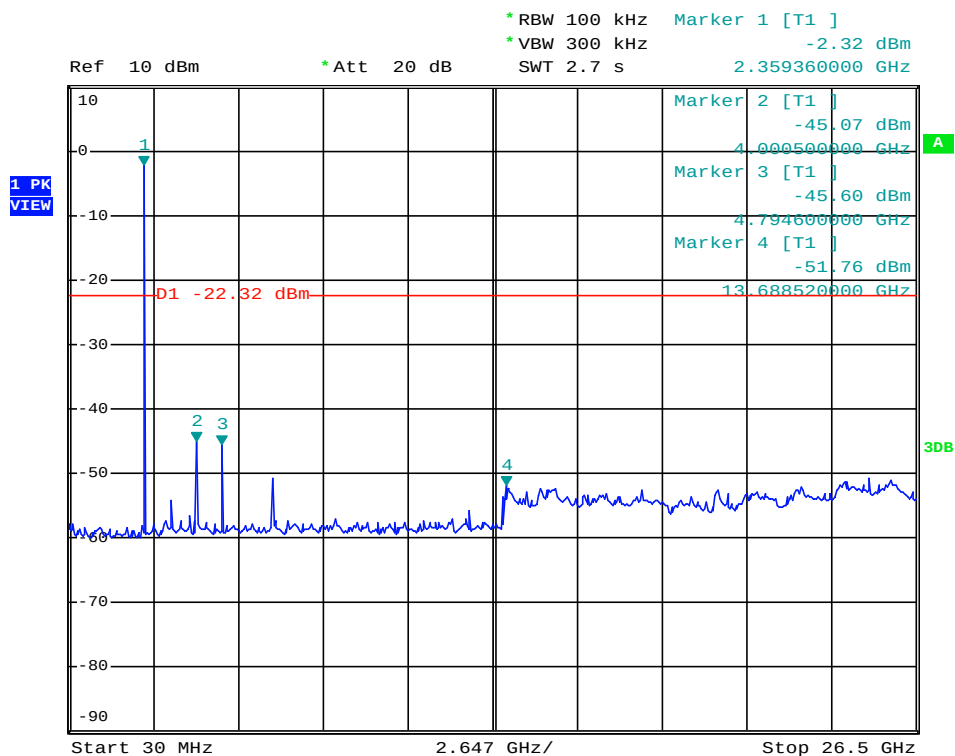


High Channel of 8-DPSK mode

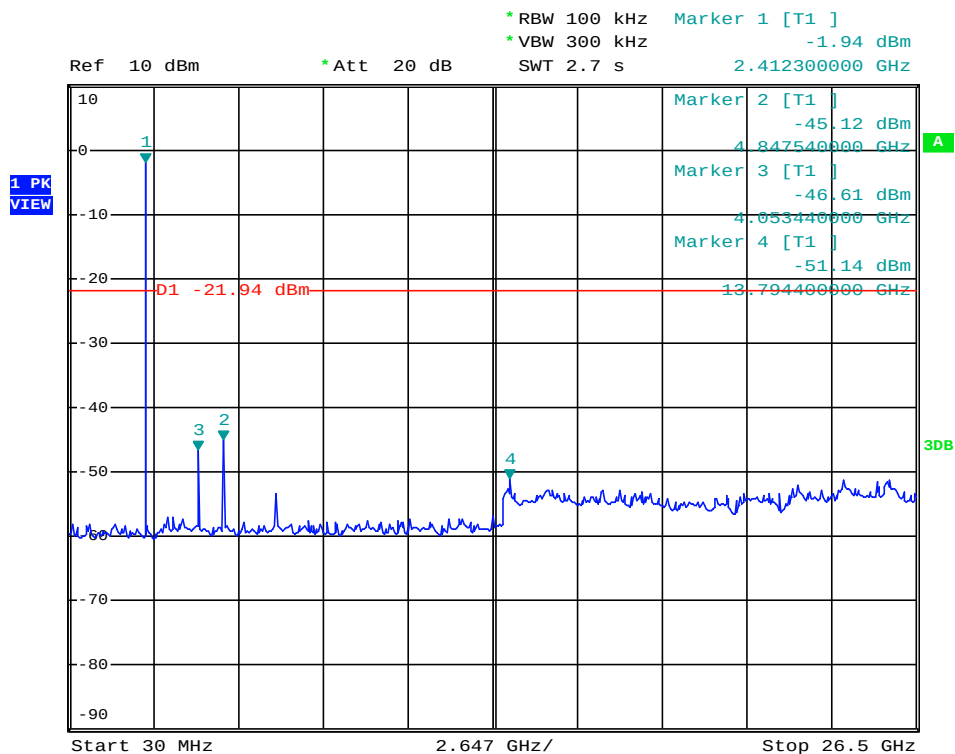


Conducted Spurious Emissions Measured in 100 kHz Bandwidth

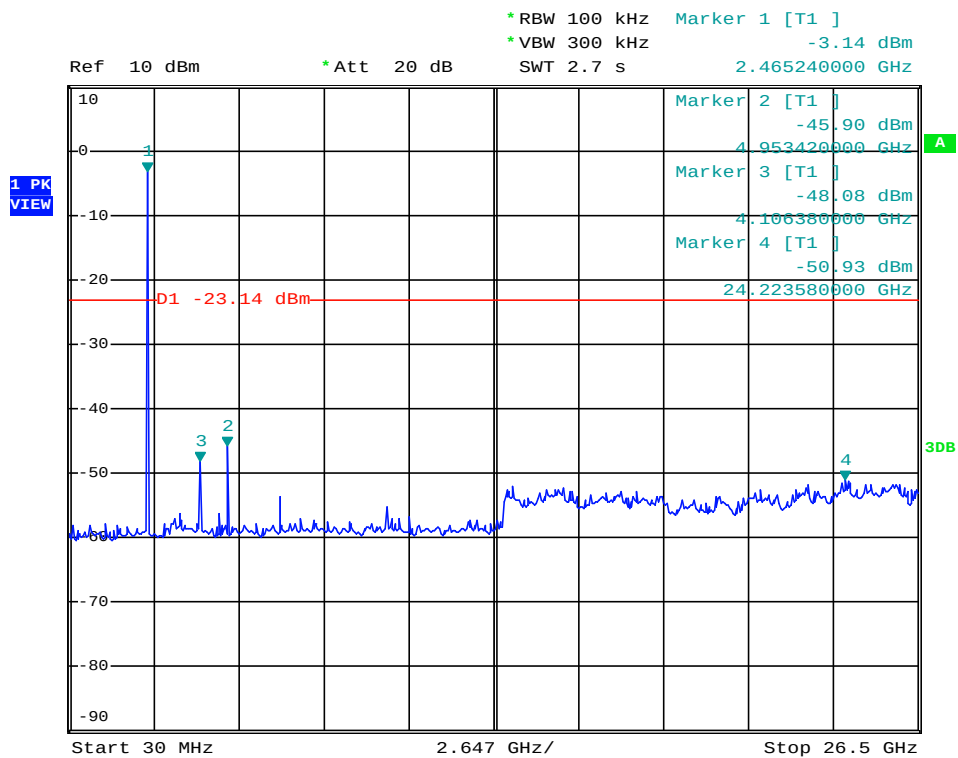
Low Channel of GFSK mode



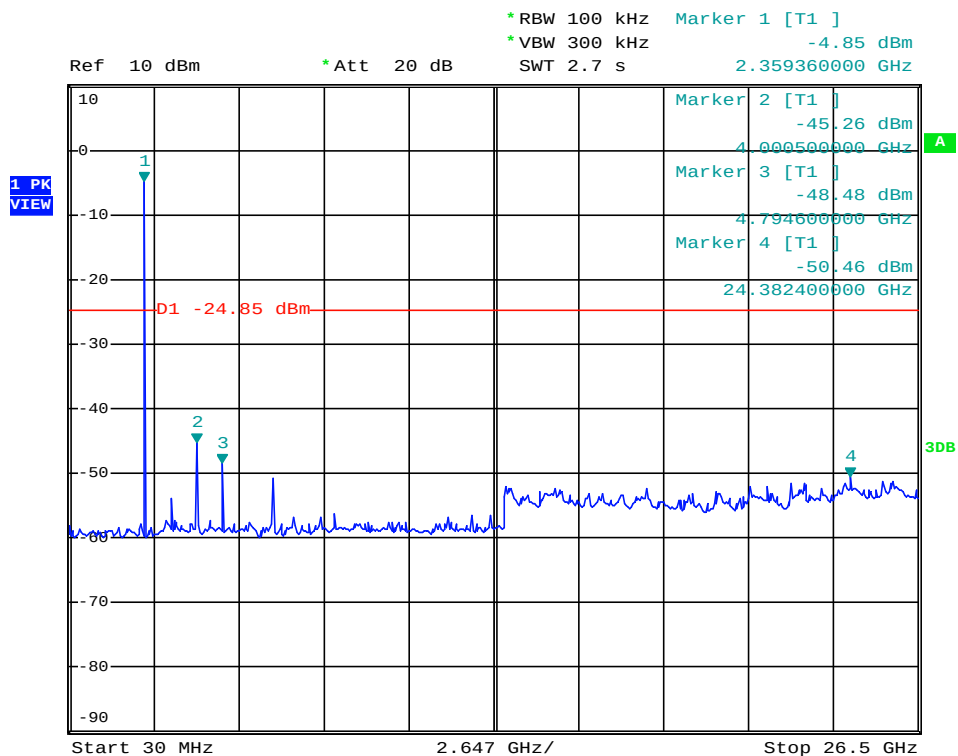
Middle Channel of GFSK mode



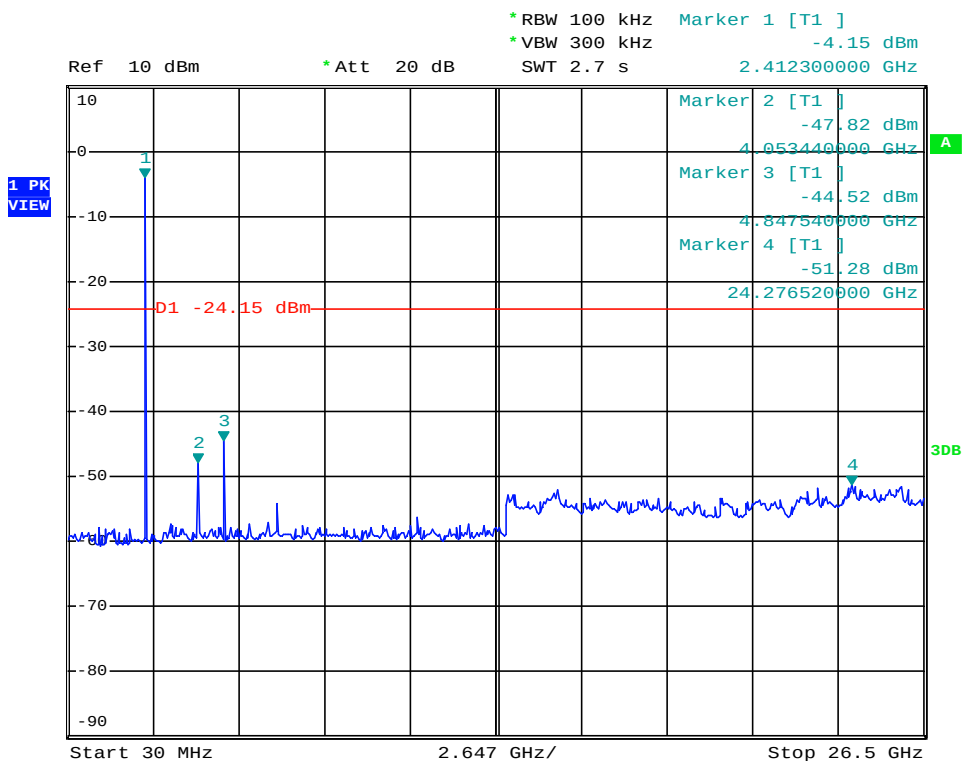
High Channel of GFSK mode



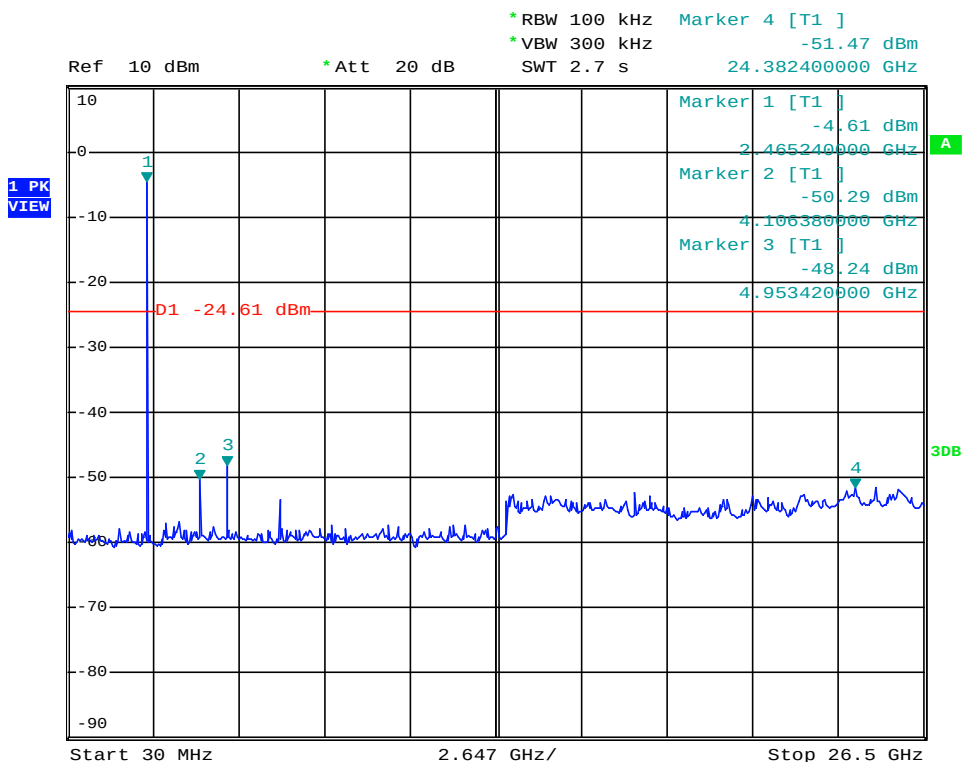
Low Channel of 8-DPSK mode



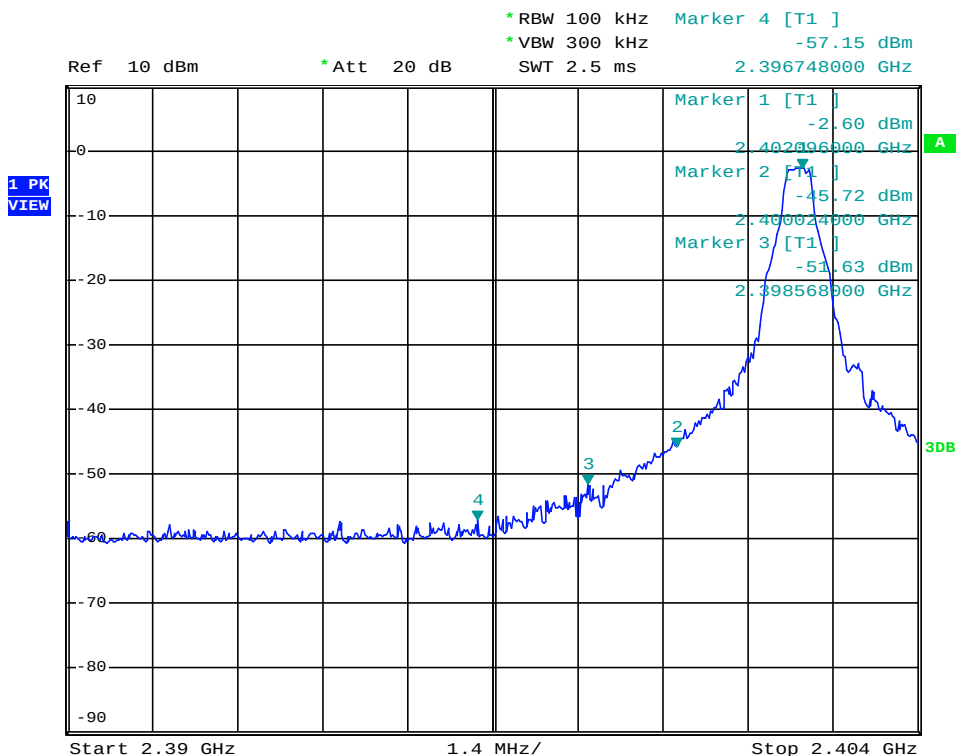
Middle Channel of 8-DPSK mode



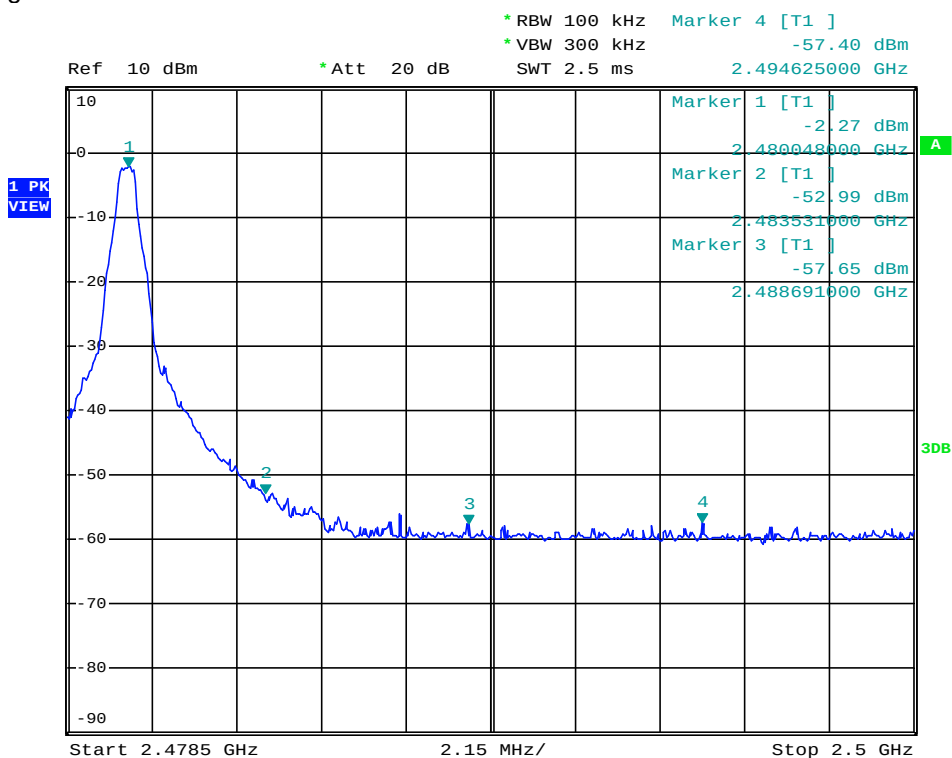
High Channel of 8-DPSK mode



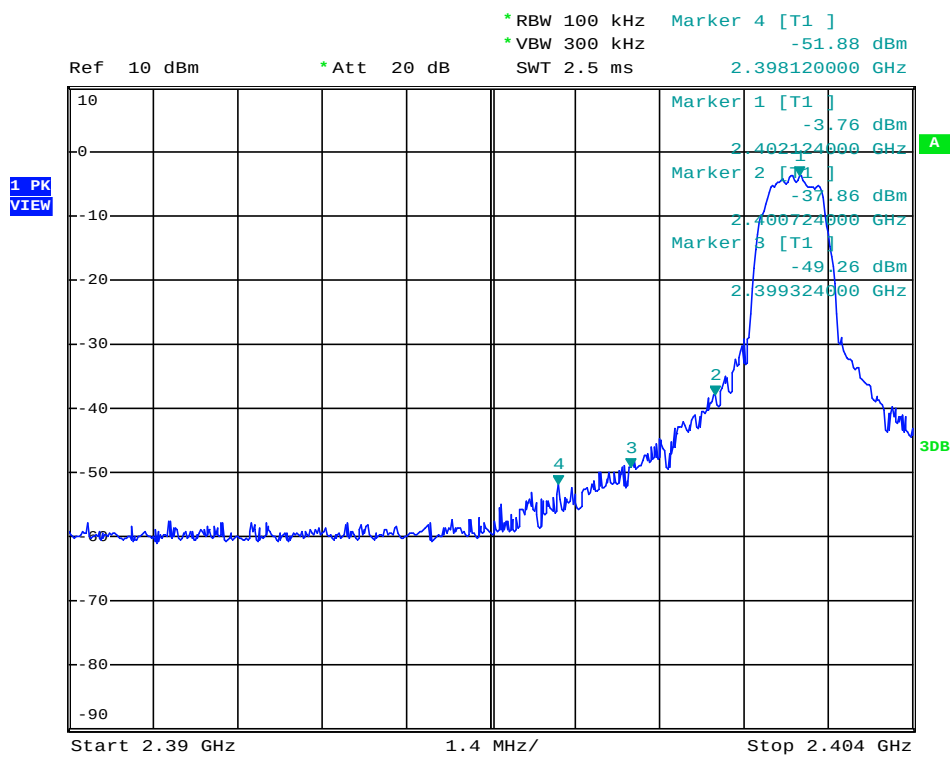
Band Edge, Low Channel of GFSK mode



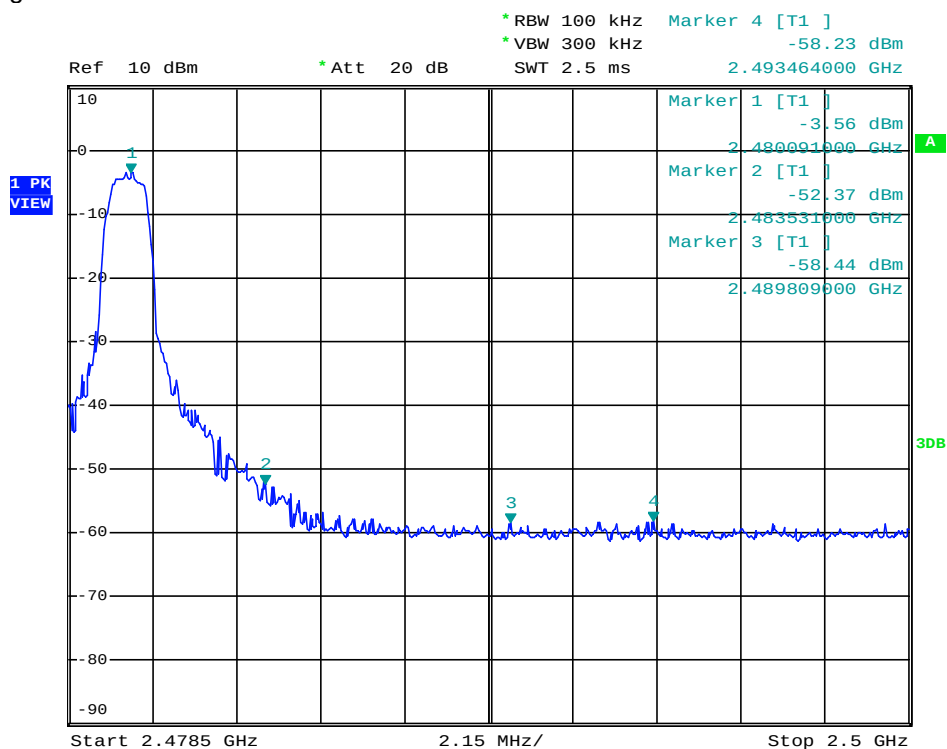
Band Edge, High Channel of GFSK mode



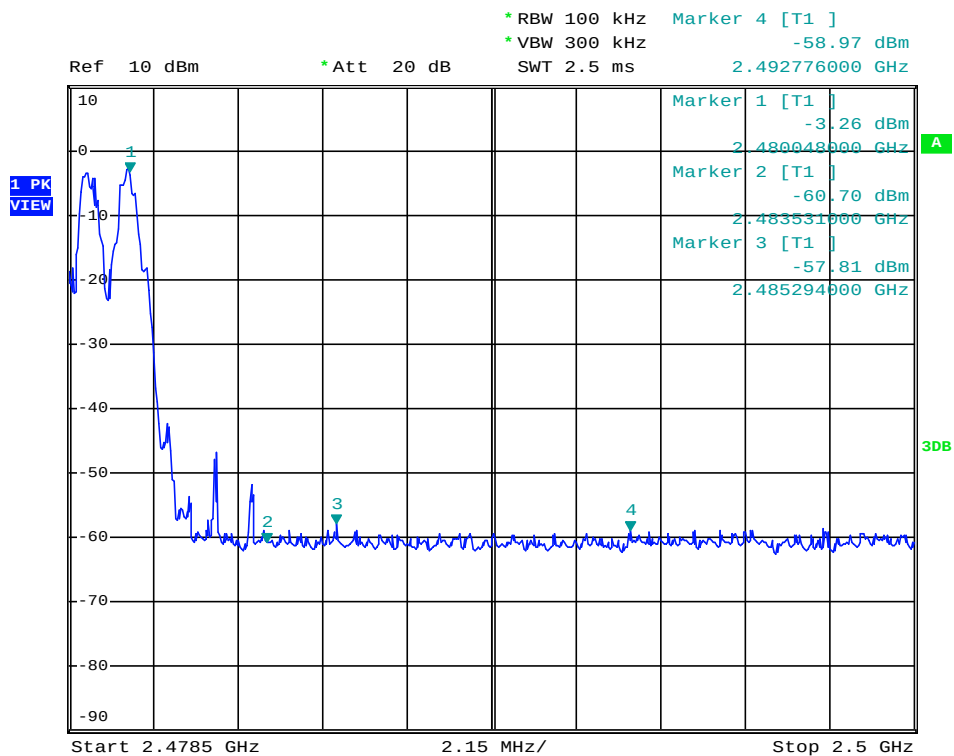
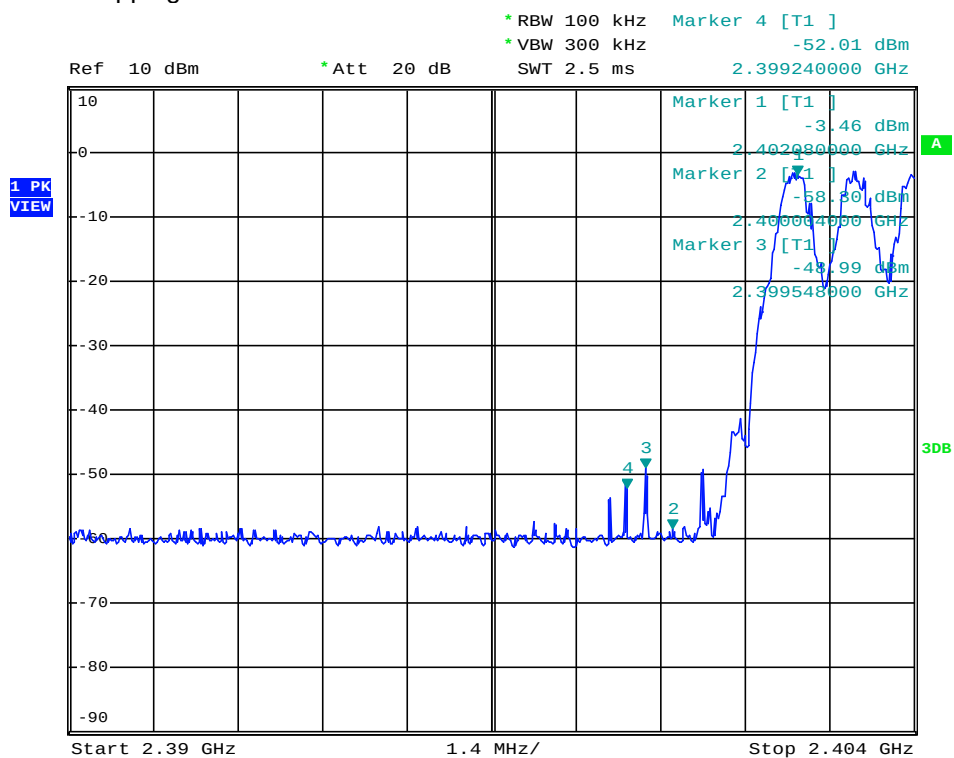
Band Edge, Low Channel of 8-DPSK mode



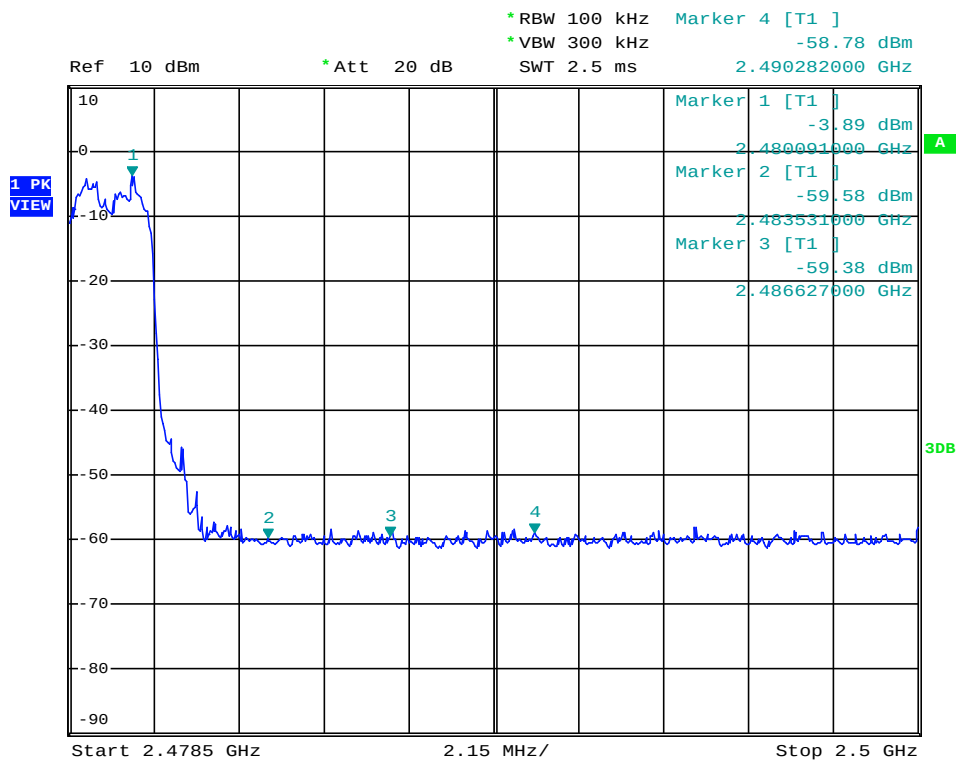
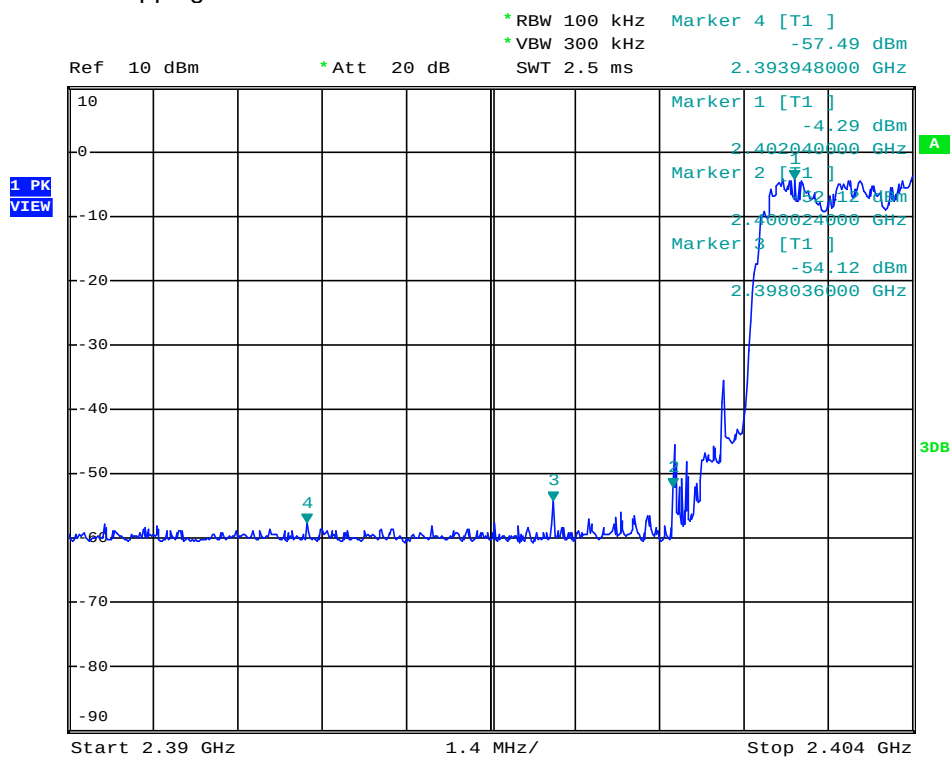
Band Edge, High Channel of 8-DPSK mode



Band Edge of GFSK hopping mode

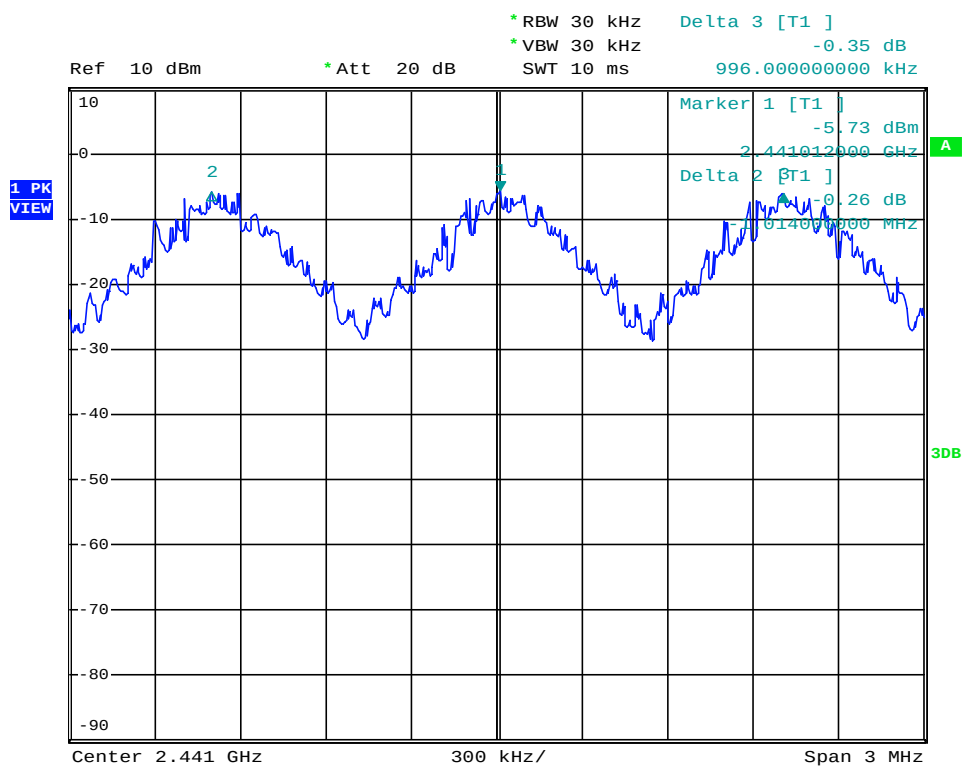


Band Edge of 8-DPSK hopping mode

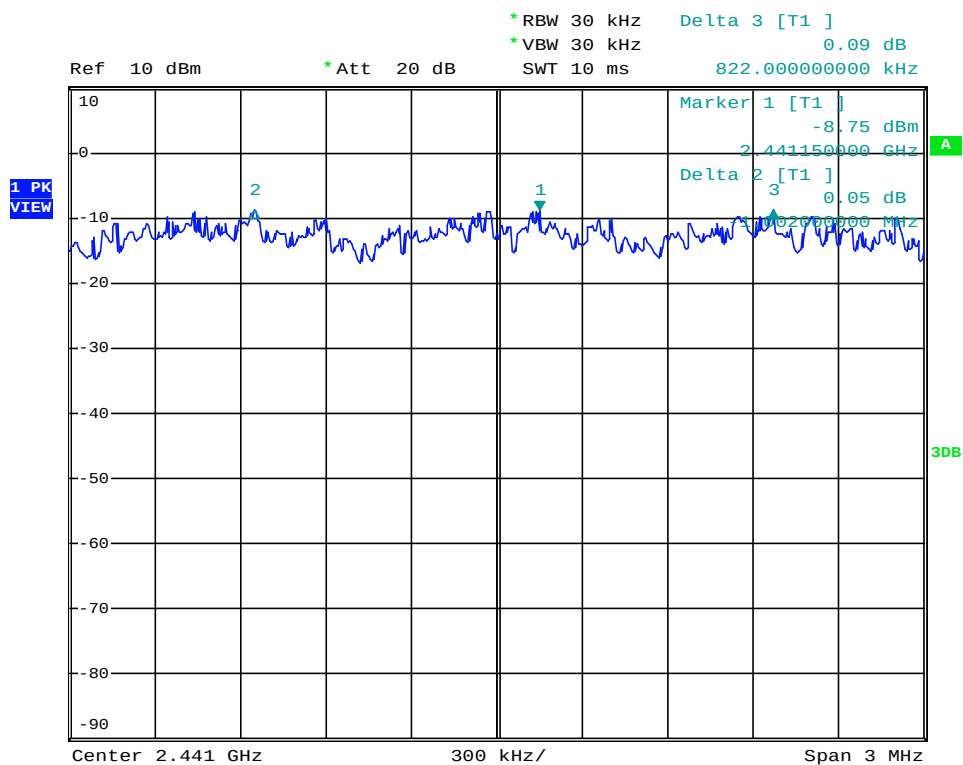


Carrier Frequency Separation

GFSK mode

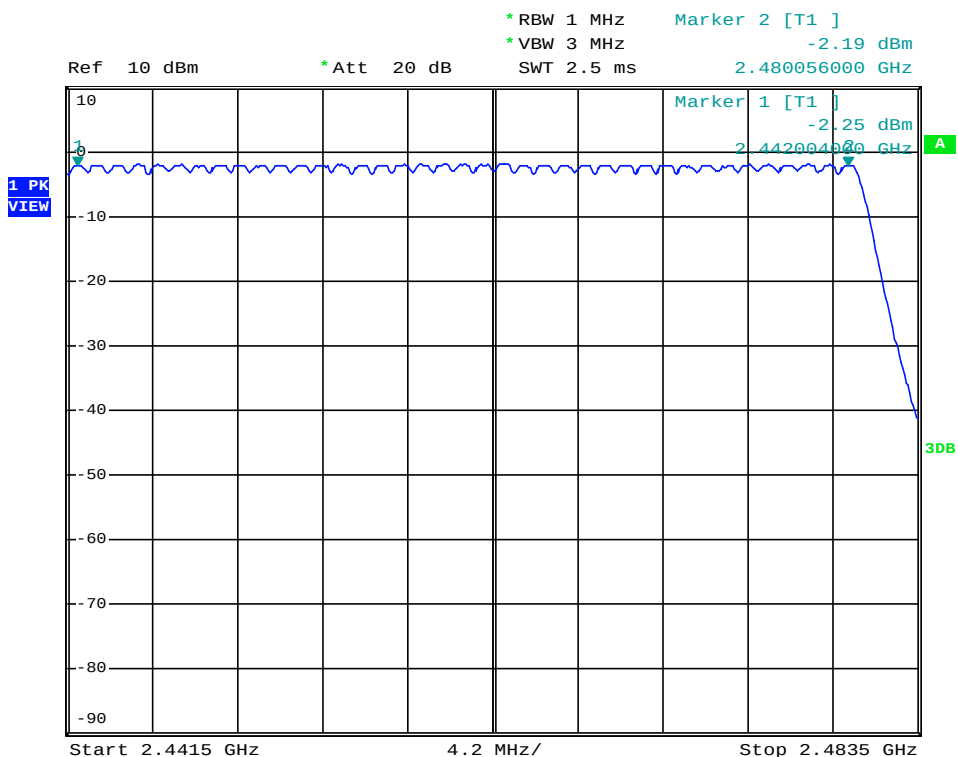
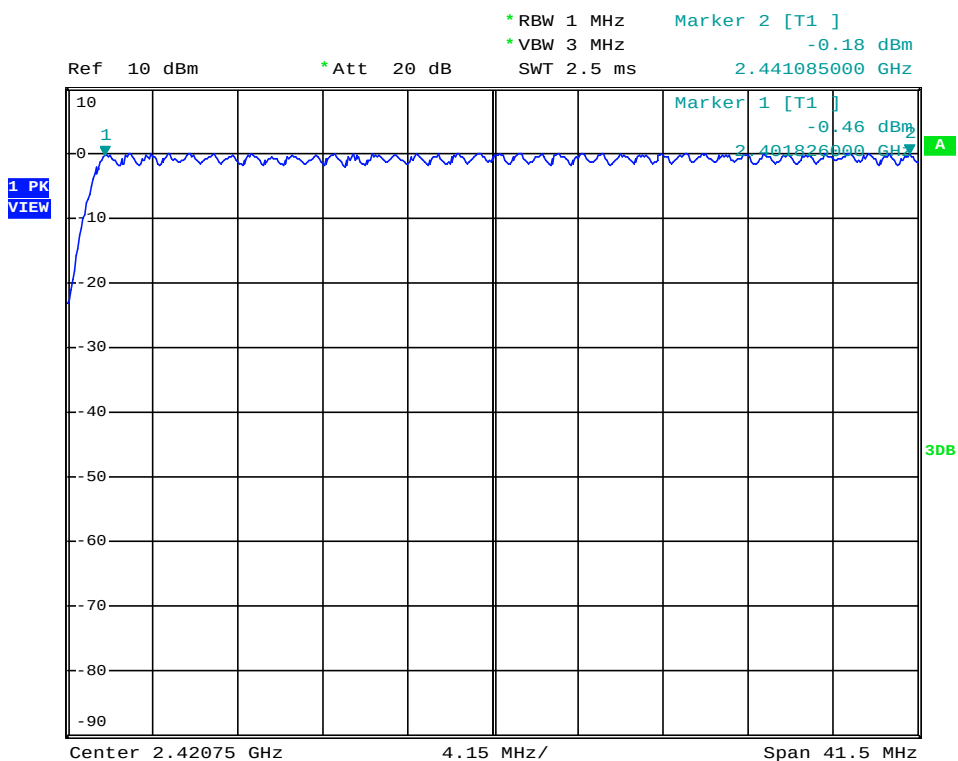


Low Channel of 8-DPSK mode

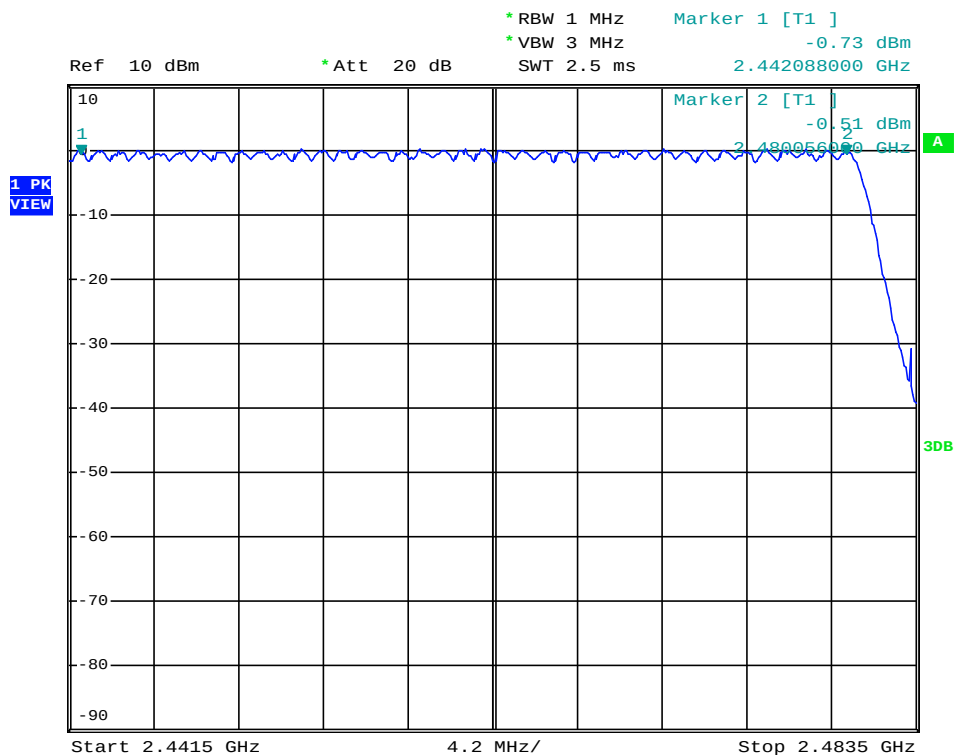
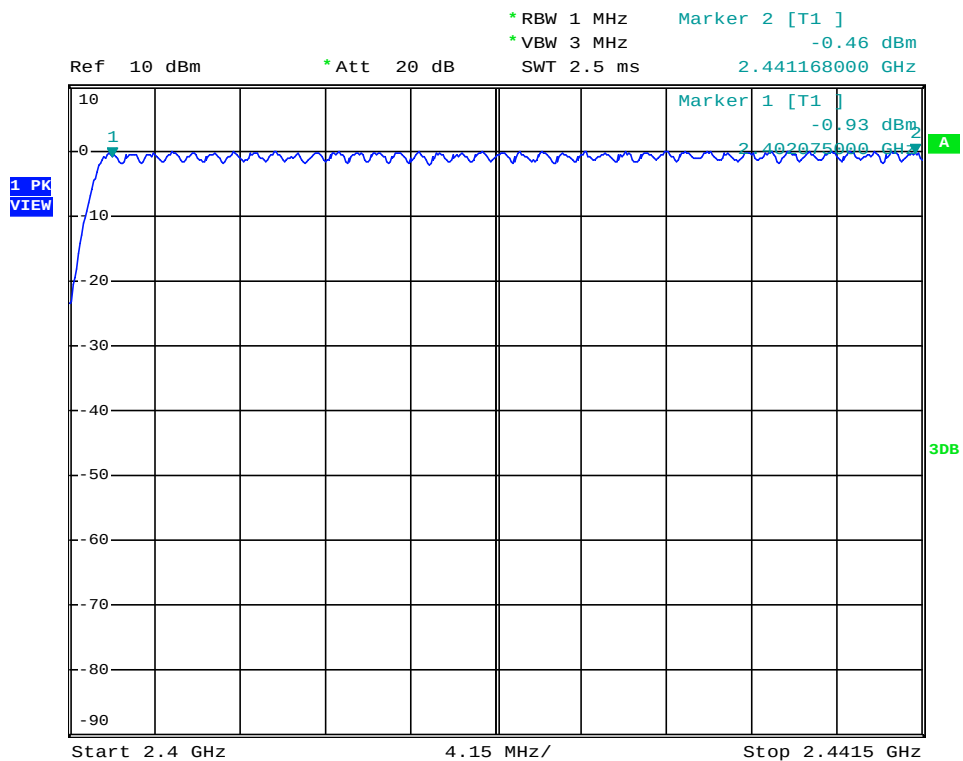


Number of Hopping Frequency

GFSK mode

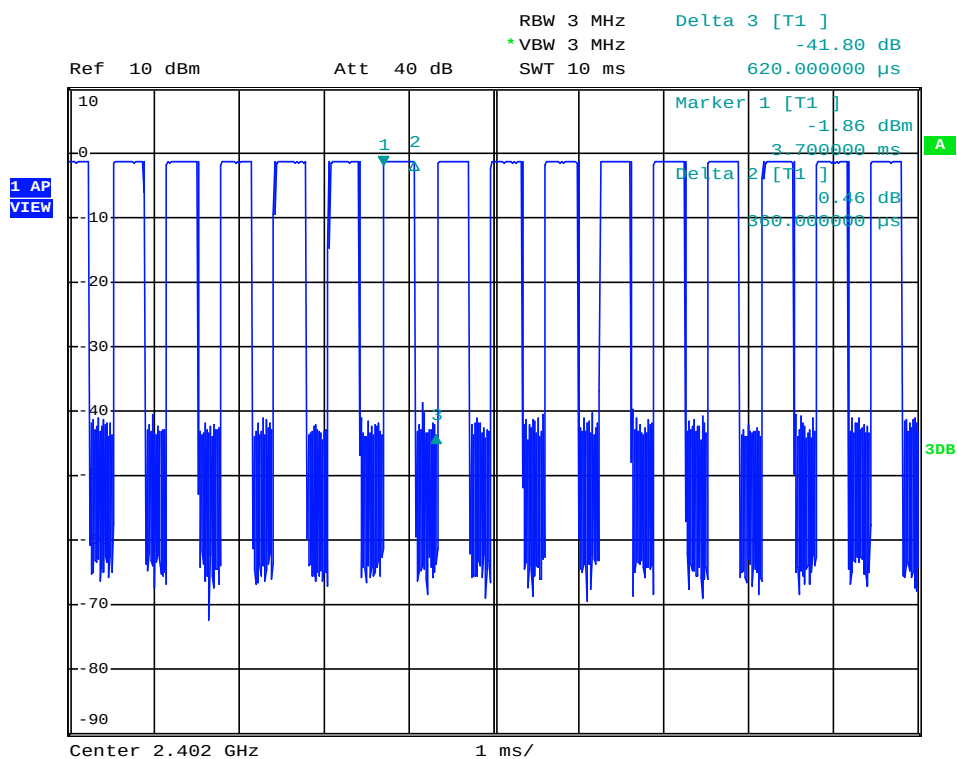


8-DPSK mode

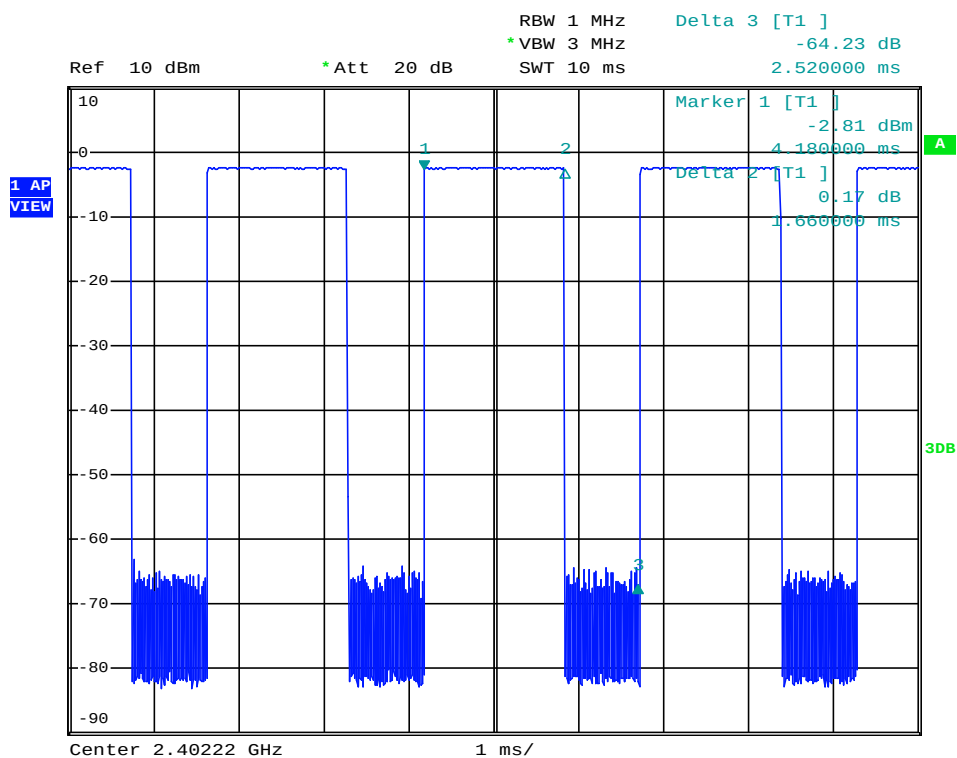


Time of Occupancy

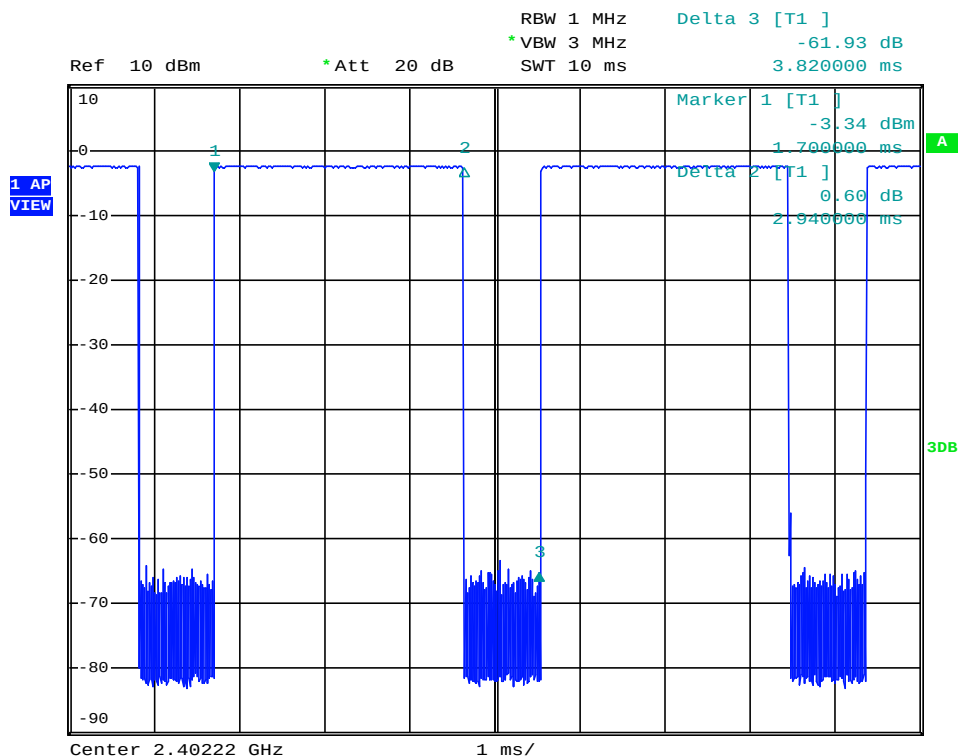
Low Channel of DH1 mode



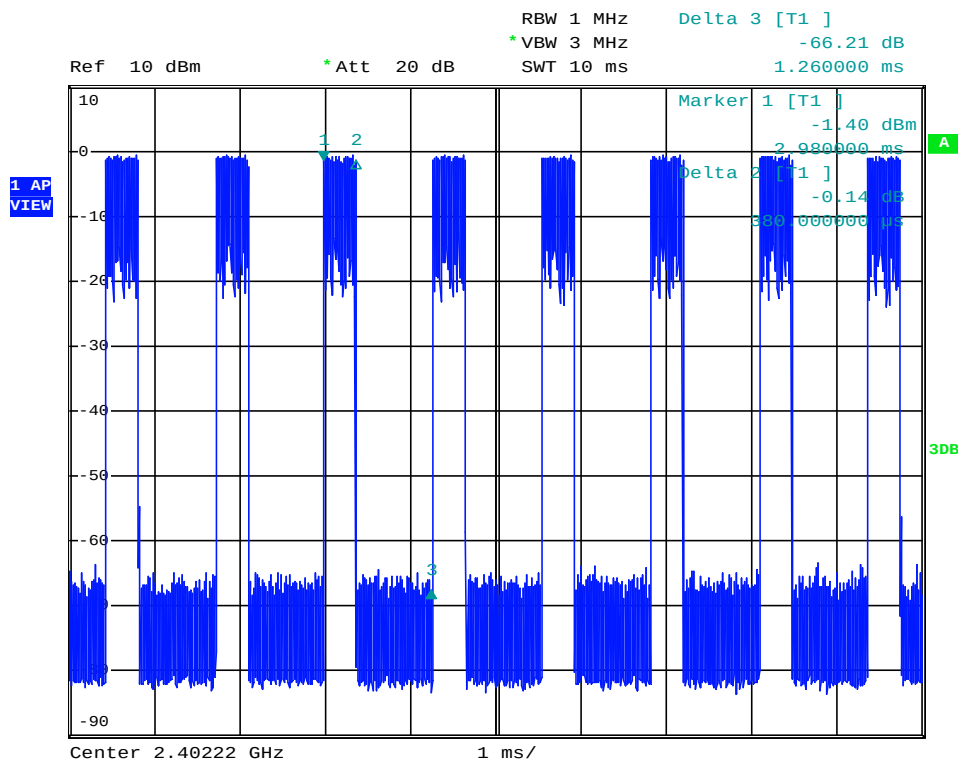
Low Channel of DH3 mode



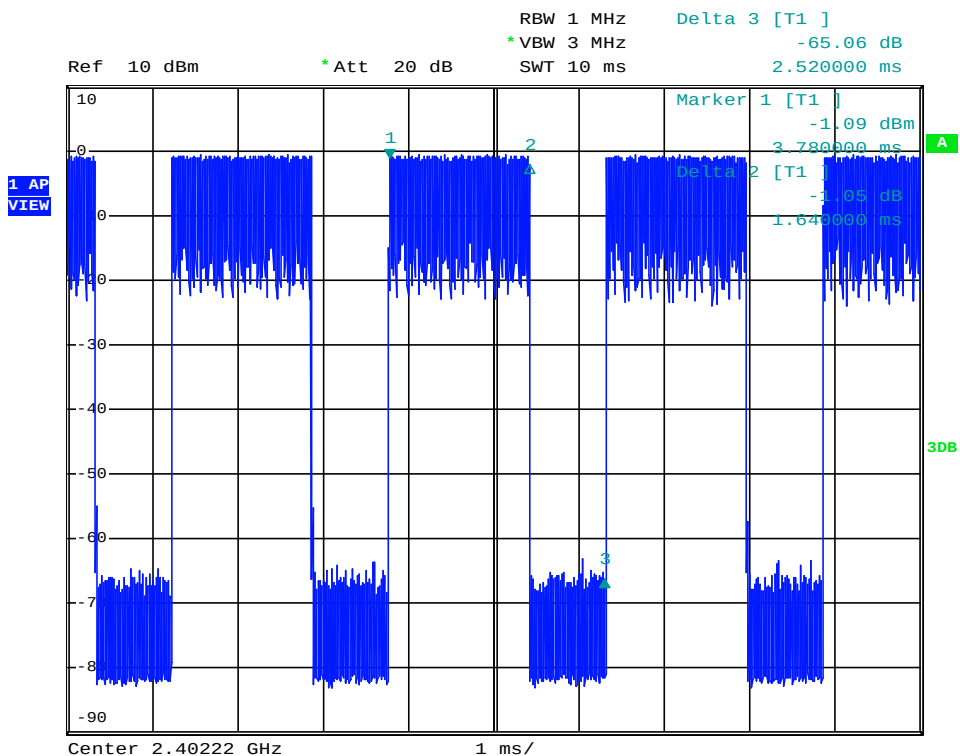
Low Channel of DH5 mode



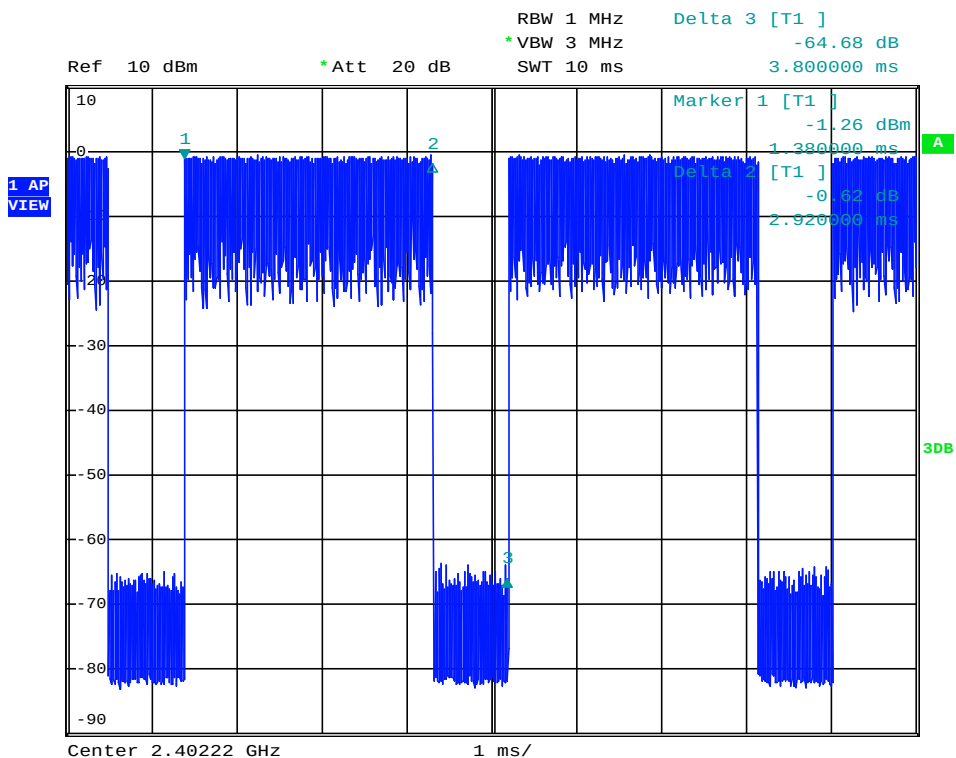
Low Channel of 3DH1 mode



Low Channel of 3DH3 mode



Low Channel of 3DH5 mode

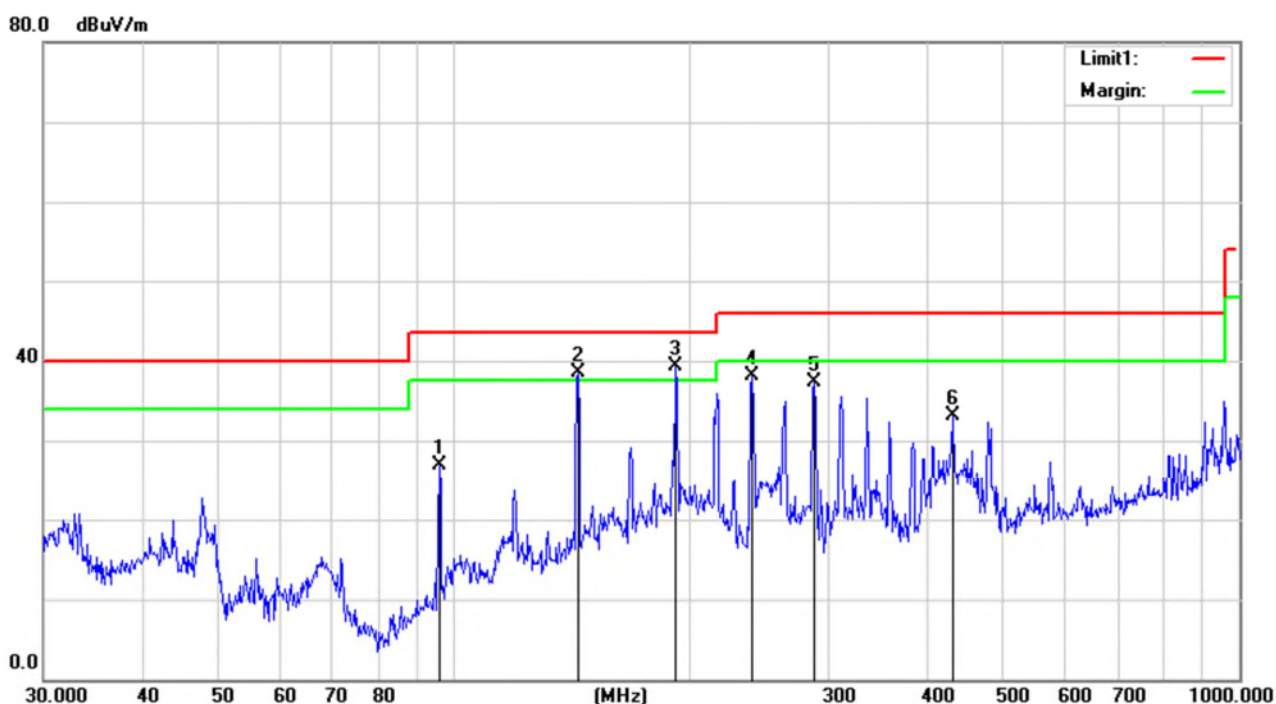


Note: Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz -26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

Test Results of Radiated Spurious Emissions

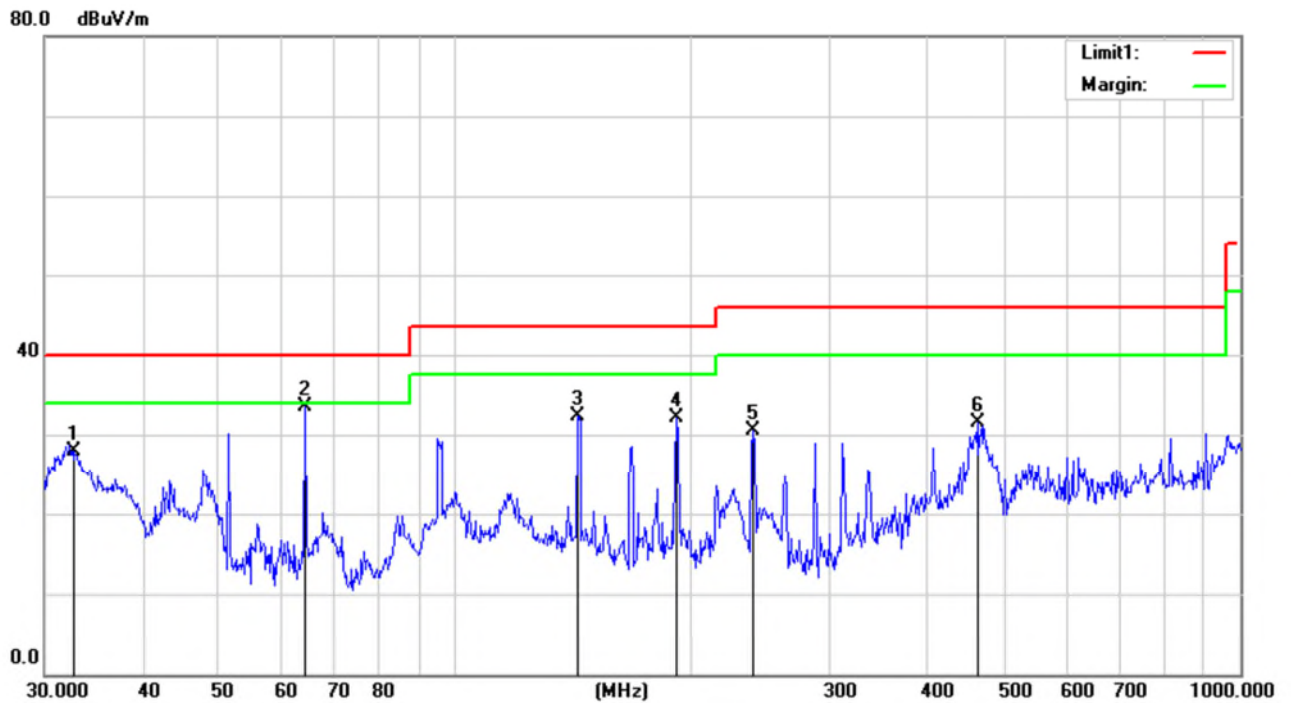
30MHz - 1GHz

Mode:	GFSK_L CH	Ant.Polar.:	Horizontal
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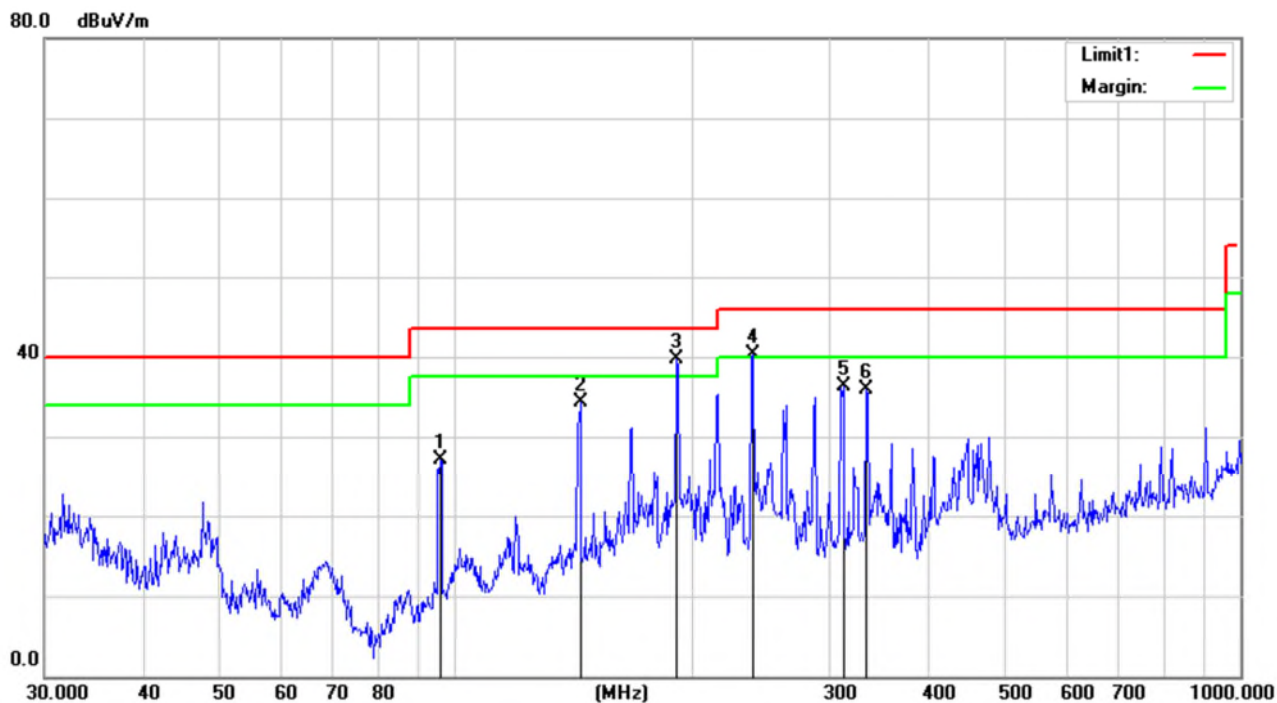
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	95.7622	46.56	-19.61	26.95	43.50	-16.55	QP
2	143.8294	56.18	-17.69	38.49	43.50	-5.01	QP
3	191.7450	59.47	-20.24	39.23	43.50	-4.27	QP
4	239.1473	55.92	-17.82	38.10	46.00	-7.90	QP
5	286.9823	52.87	-15.53	37.34	46.00	-8.66	QP
6	432.5457	43.96	-10.89	33.07	46.00	-12.93	QP

Mode:	GFSK_L CH	Ant.Polar.:	Vertical
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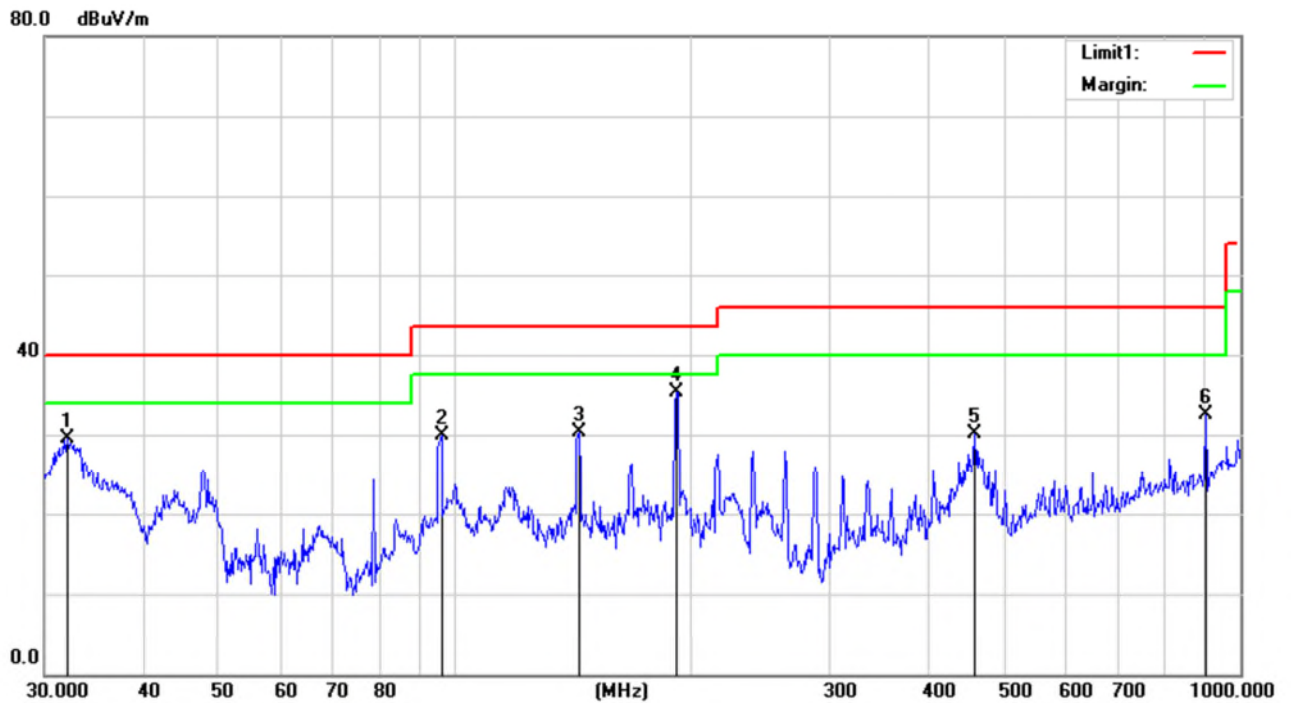
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	32.7486	40.47	-12.60	27.87	40.00	-12.13	QP
2	64.4330	57.71	-24.24	33.47	40.00	-6.53	QP
3	143.3260	50.01	-17.67	32.34	43.50	-11.16	QP
4	191.0738	52.44	-20.24	32.20	43.50	-11.30	QP
5	239.1473	48.36	-17.82	30.54	46.00	-15.46	QP
6	462.3455	41.52	-10.05	31.47	46.00	-14.53	QP

Mode:	GFSK_M CH	Ant.Polar.:	Horizontal
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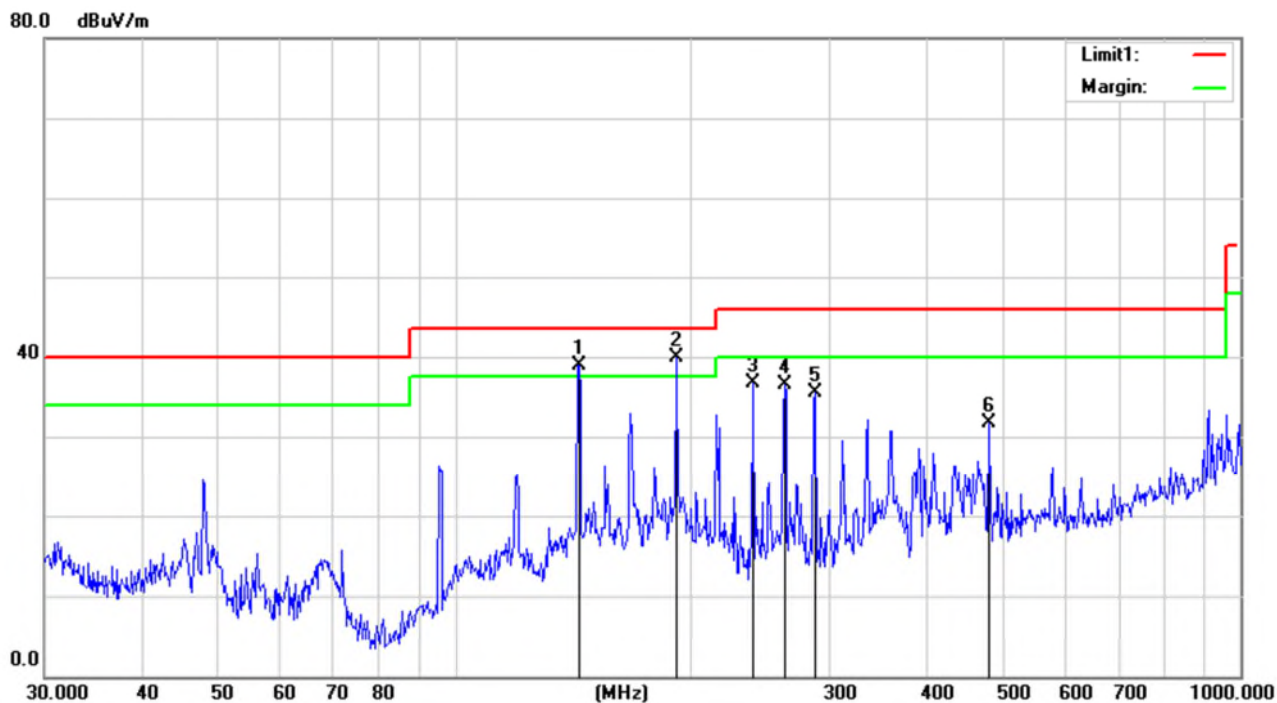
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	95.7622	46.68	-19.61	27.07	43.50	-16.43	QP
2	144.3348	51.95	-17.72	34.23	43.50	-9.27	QP
3	191.7450	60.02	-20.24	39.78	43.50	-3.72	QP
4	239.1473	58.14	-17.82	40.32	46.00	-5.68	QP
5	312.1792	50.74	-14.42	36.32	46.00	-9.68	QP
6	333.6865	49.97	-14.06	35.91	46.00	-10.09	QP

Mode:	GFSK_M CH	Ant.Polar.:	Vertical
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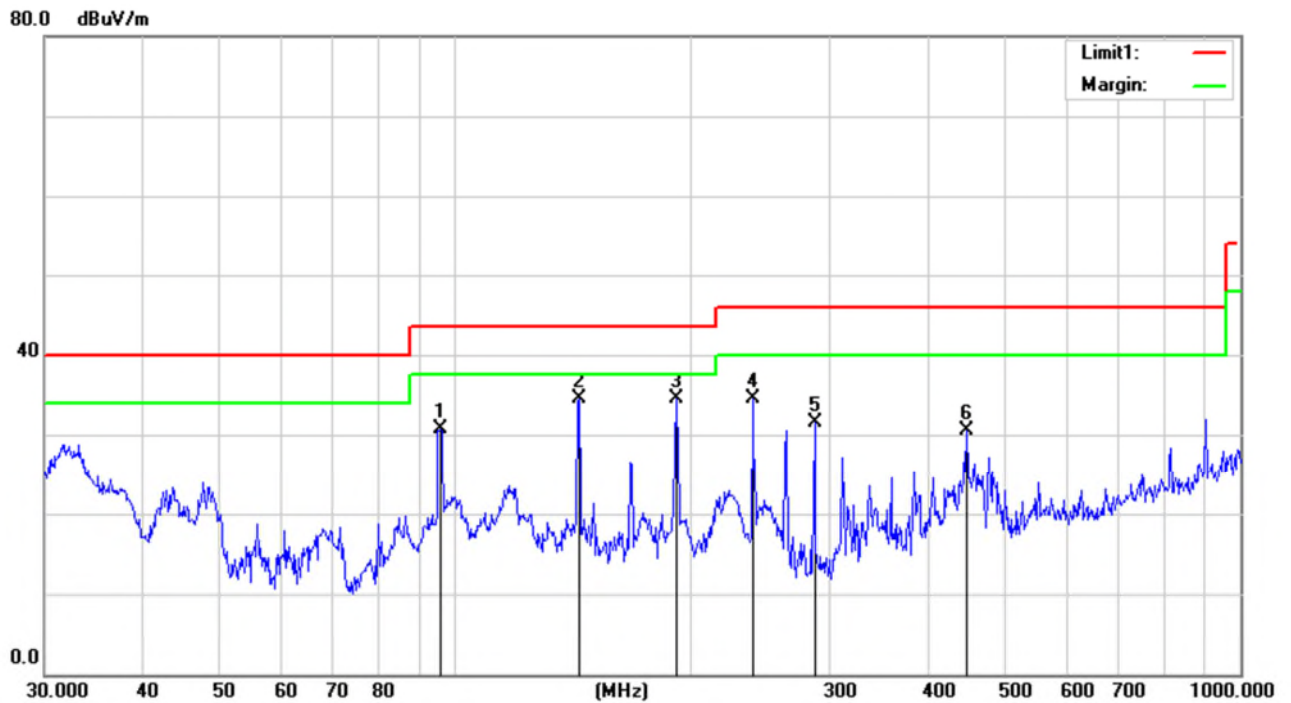
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	32.0667	41.68	-12.25	29.43	40.00	-10.57	QP
2	96.0986	49.47	-19.58	29.89	43.50	-13.61	QP
3	143.8294	48.00	-17.69	30.31	43.50	-13.19	QP
4	191.0738	55.52	-20.24	35.28	43.50	-8.22	QP
5	459.1143	40.33	-10.17	30.16	46.00	-15.84	QP
6	903.3093	34.66	-2.14	32.52	46.00	-13.48	QP

Mode:	GFSK_H CH	Ant.Polar.:	Horizontal
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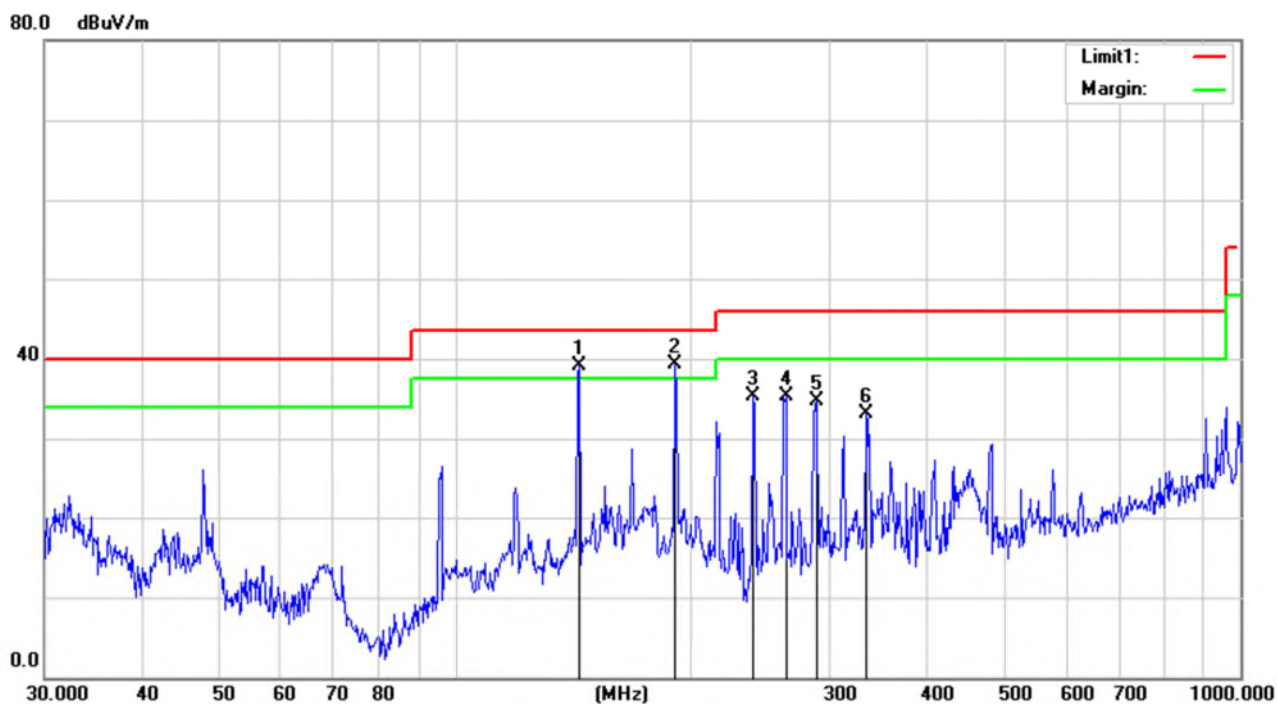
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	143.8294	56.55	-17.69	38.86	43.50	-4.64	QP
2	191.0738	60.15	-20.24	39.91	43.50	-3.59	QP
3	239.9873	54.51	-17.76	36.75	46.00	-9.25	QP
4	262.8955	51.60	-15.17	36.43	46.00	-9.57	QP
5	287.9904	50.98	-15.49	35.49	46.00	-10.51	QP
6	478.8455	41.09	-9.47	31.62	46.00	-14.38	QP

Mode:	GFSK_H CH	Ant.Polar.:	Vertical
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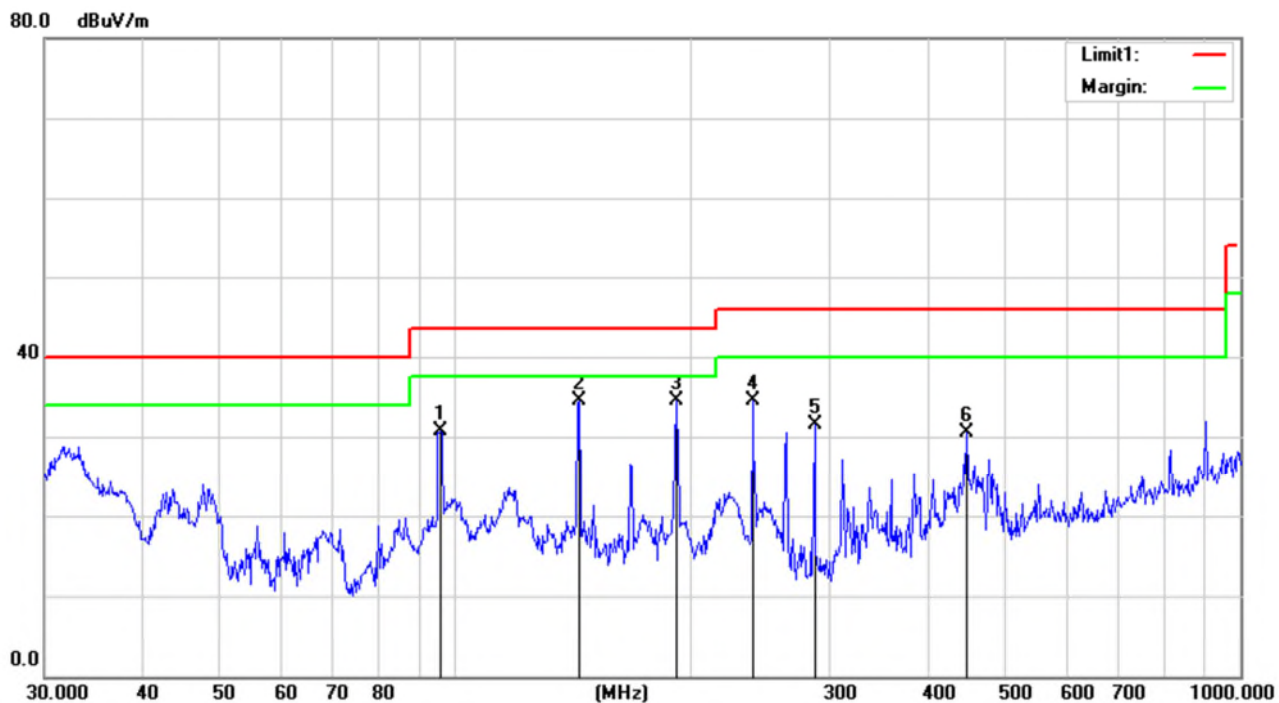
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	95.7622	50.22	-19.61	30.61	43.50	-12.89	QP
2	143.8294	52.15	-17.69	34.46	43.50	-9.04	QP
3	191.0738	54.80	-20.24	34.56	43.50	-8.94	QP
4	239.1473	52.24	-17.82	34.42	46.00	-11.58	QP
5	286.9823	47.07	-15.53	31.54	46.00	-14.46	QP
6	447.9821	41.01	-10.59	30.42	46.00	-15.58	QP

Mode:	8-DPSK_L CH	Ant.Polar.:	Horizontal
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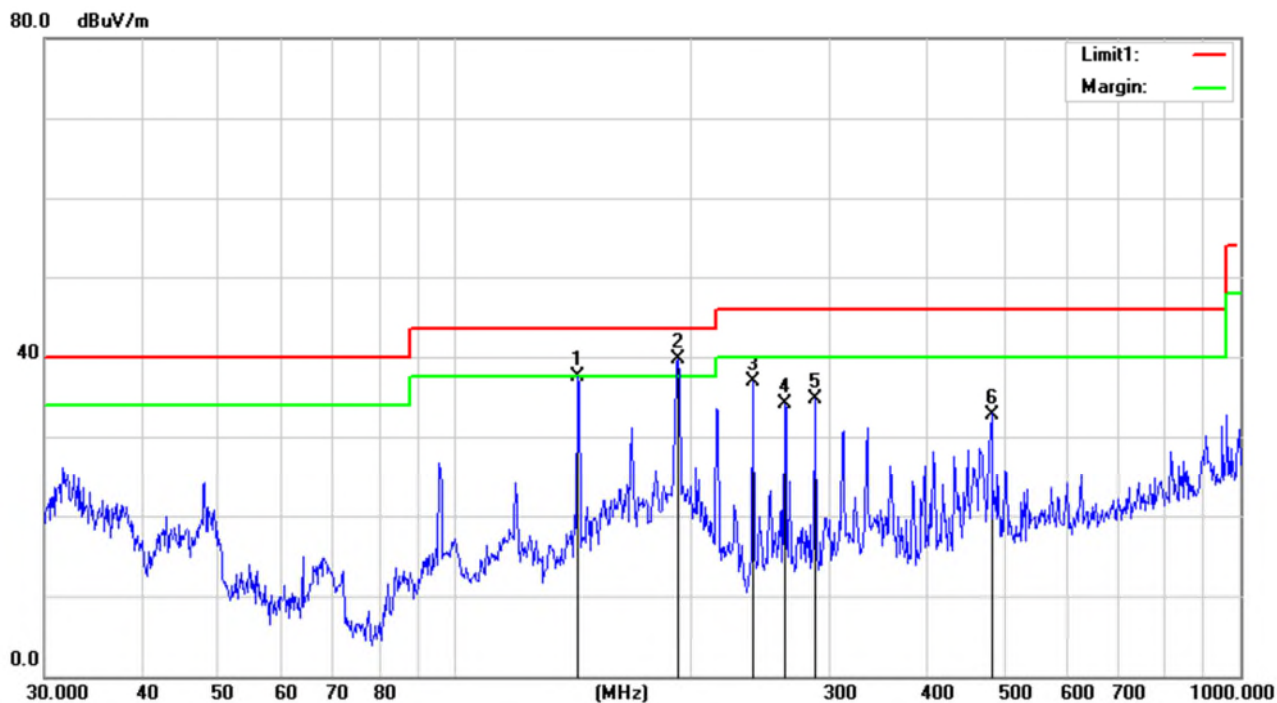
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	143.8294	56.76	-17.69	39.07	43.50	-4.43	QP
2	190.4050	59.48	-20.25	39.23	43.50	-4.27	QP
3	239.1473	53.12	-17.82	35.30	46.00	-10.70	QP
4	263.8190	50.62	-15.22	35.40	46.00	-10.60	QP
5	289.0020	50.22	-15.45	34.77	46.00	-11.23	QP
6	333.6865	47.20	-14.06	33.14	46.00	-12.86	QP

Mode:	8-DPSK_L CH	Ant.Polar.:	Vertical
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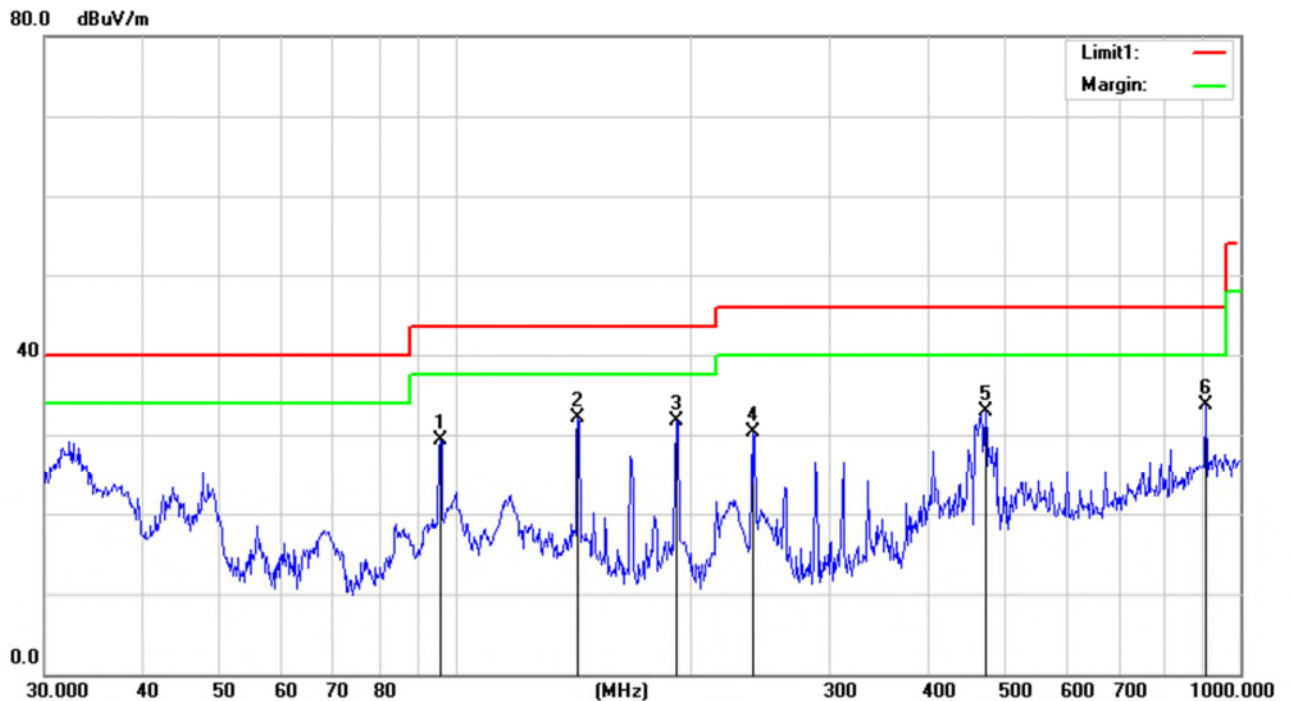
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	95.7622	50.22	-19.61	30.61	43.50	-12.89	QP
2	143.8294	52.15	-17.69	34.46	43.50	-9.04	QP
3	191.0738	54.80	-20.24	34.56	43.50	-8.94	QP
4	239.1473	52.24	-17.82	34.42	46.00	-11.58	QP
5	286.9823	47.07	-15.53	31.54	46.00	-14.46	QP
6	447.9821	41.01	-10.59	30.42	46.00	-15.58	QP

Mode:	8-DQPSK_M CH	Ant.Polar.:	Horizontal
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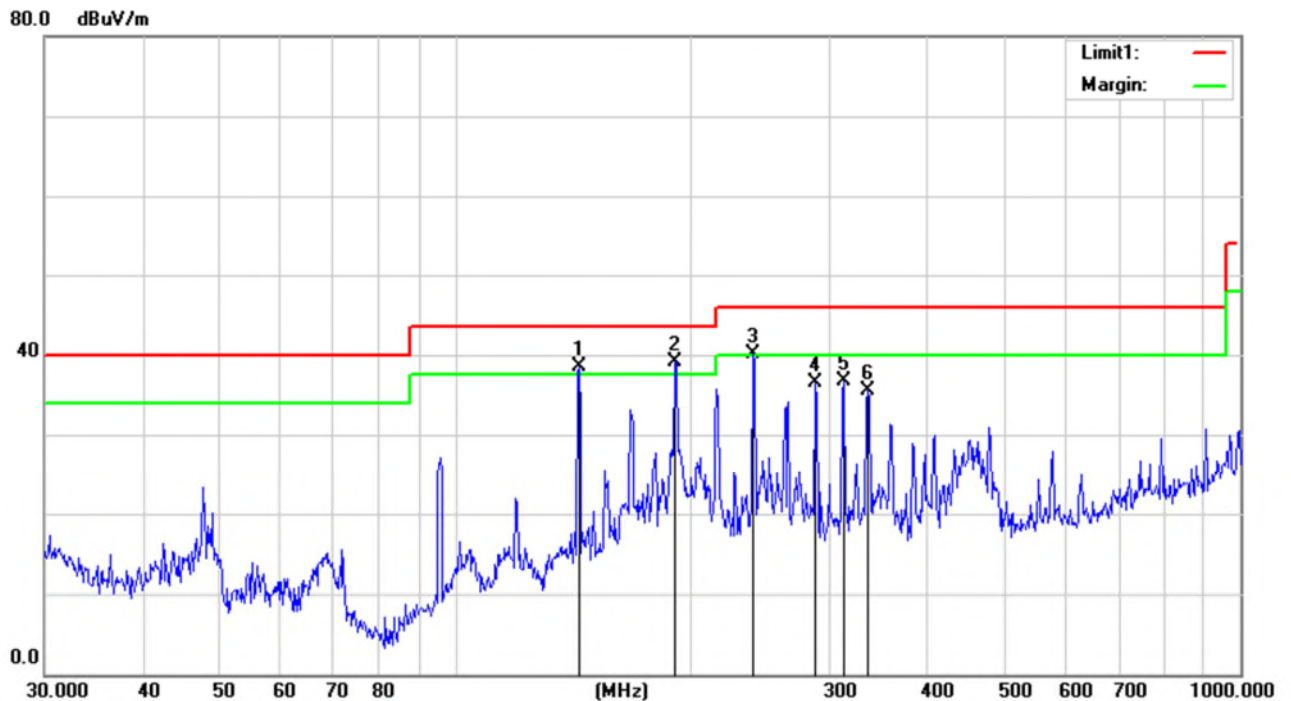
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	143.3260	55.08	-17.67	37.41	43.50	-6.09	QP
2	192.4185	59.85	-20.24	39.61	43.50	-3.89	QP
3	239.1473	54.69	-17.82	36.87	46.00	-9.13	QP
4	262.8955	49.36	-15.17	34.19	46.00	-11.81	QP
5	286.9823	50.30	-15.53	34.77	46.00	-11.23	QP
6	482.2155	42.15	-9.35	32.80	46.00	-13.20	QP

Mode:	8-DQPSK_M CH	Ant.Polar.:	Vertical
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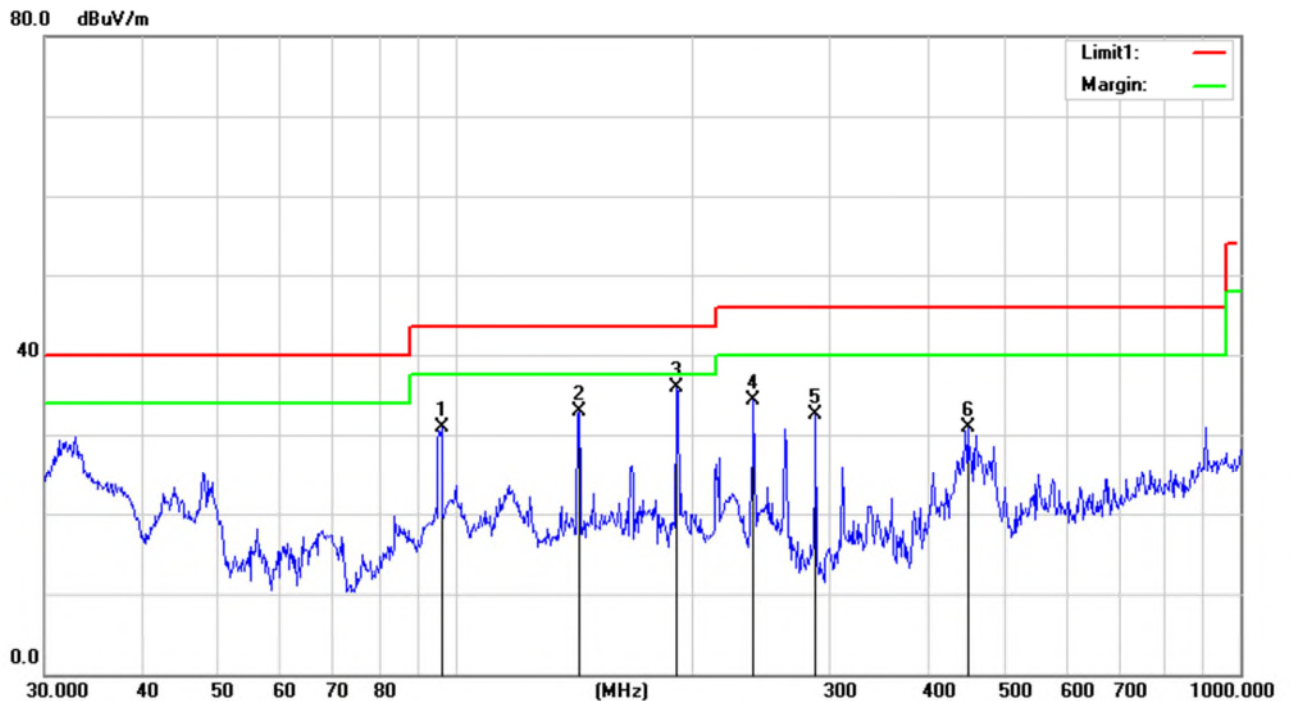
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	95.7622	48.86	-19.61	29.25	43.50	-14.25	QP
2	143.3260	49.85	-17.67	32.18	43.50	-11.32	QP
3	191.7450	51.96	-20.24	31.72	43.50	-11.78	QP
4	239.1473	48.06	-17.82	30.24	46.00	-15.76	QP
5	473.8346	42.57	-9.62	32.95	46.00	-13.05	QP
6	903.3093	35.90	-2.14	33.76	46.00	-12.24	QP

Mode:	8-DPSK_H CH	Ant.Polar.:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	143.8294	56.13	-17.69	38.44	43.50	-5.06	peak
2	190.4050	59.45	-20.25	39.20	43.50	-4.30	peak
3	239.1473	57.93	-17.82	40.11	46.00	-5.89	peak
4	286.9823	52.02	-15.53	36.49	46.00	-9.51	peak
5	312.1792	51.05	-14.42	36.63	46.00	-9.37	peak
6	336.0351	49.49	-14.05	35.44	46.00	-10.56	peak

Mode:	8-DPSK_H CH	Ant.Polar.:	Vertical
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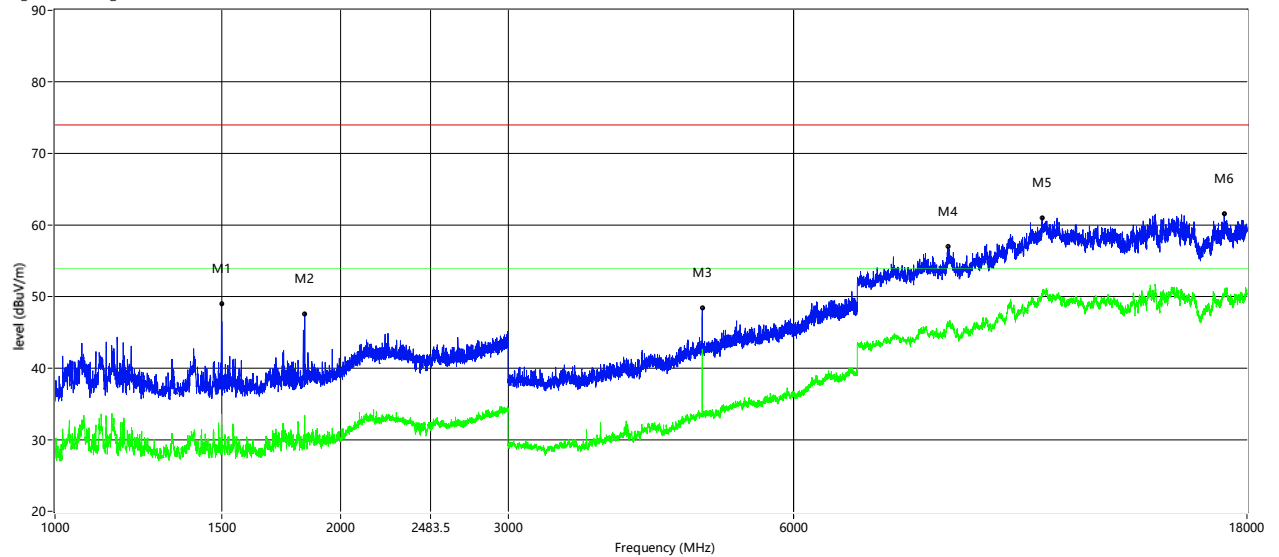
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	96.0986	50.50	-19.58	30.92	43.50	-12.58	peak
2	143.8294	50.58	-17.69	32.89	43.50	-10.61	peak
3	191.7450	56.10	-20.24	35.86	43.50	-7.64	peak
4	239.9873	52.00	-17.76	34.24	46.00	-11.76	peak
5	287.9904	47.91	-15.49	32.42	46.00	-13.58	peak
6	449.5557	41.52	-10.52	31.00	46.00	-15.00	peak

Produkte
Products

1GHz - 18GHz

GFSK _L_CH

RE_FCC Test Case_FCC 15C 1GHz-18GHz

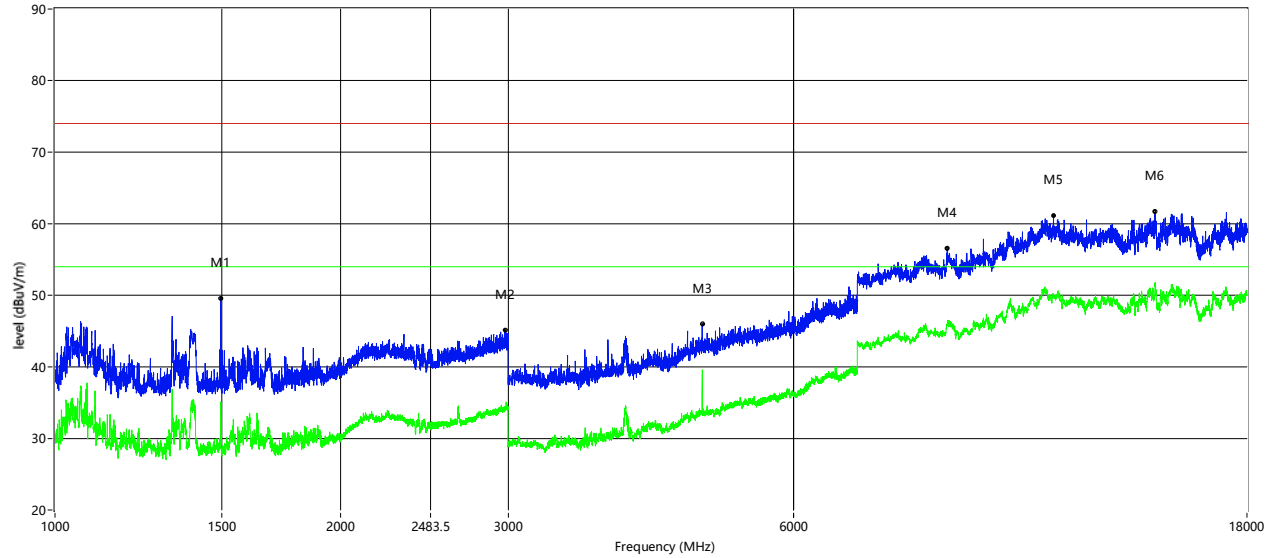


Frequency (MHz)	Peak Reading (dBuV/m)	Average Reading (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin (dB)	ANT
1497	49.49	34.10	-0.56	48.93	33.54	74.00	54.00	-25.07	-20.46	-20.46	Horizontal
1832.5	47.11	32.94	0.48	47.59	33.42	74.00	54.00	-26.41	-20.58	-20.58	Horizontal
4804	55.37	49.62	-6.96	48.41	42.66	74.00	54.00	-25.59	-11.34	-11.34	Horizontal
8716	51.85	41.02	5.11	56.96	46.13	74.00	54.00	-17.04	-7.87	-7.87	Horizontal
10957.25	51.13	40.31	9.89	61.02	50.20	74.00	54.00	-12.98	-3.80	-3.80	Horizontal
17037.5	51.52	40.53	10.03	61.55	50.56	74.00	54.00	-12.45	-3.44	-3.44	Horizontal

Produkte
Products

GFSK _L_CH

RE_FCC Test Case_FCC 15C 1GHz-18GHz

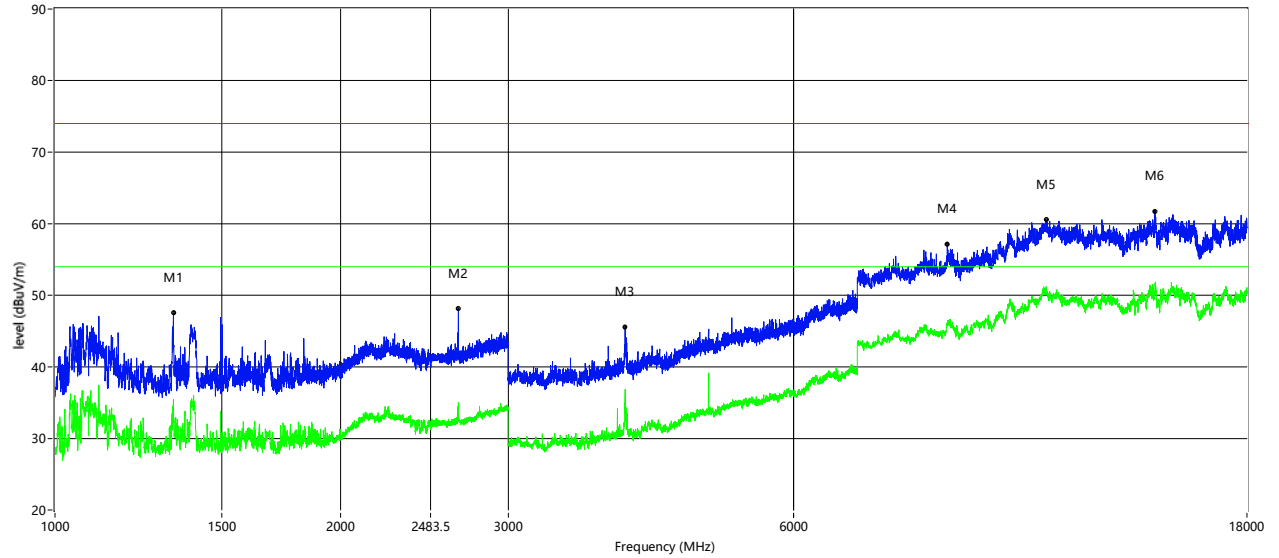


Frequency (MHz)	Peak Reading (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin(dB)	ANT
1495.5	50.13	35.69	-0.56	49.57	35.13	74.00	54.00	-24.43	-18.87	-18.87	Vertical
2982	39.07	27.95	6.03	45.10	33.98	74.00	54.00	-28.90	-20.02	-20.02	Vertical
4804	52.95	46.58	-6.96	45.99	39.62	74.00	54.00	-28.01	-14.38	-14.38	Vertical
8702.25	51.39	40.91	5.15	56.54	46.06	74.00	54.00	-17.46	-7.94	-7.94	Vertical
11259.75	51.65	40.16	9.56	61.21	49.72	74.00	54.00	-12.79	-4.28	-4.28	Vertical
14411.25	50.38	40.14	11.29	61.67	51.43	74.00	54.00	-12.33	-2.57	-2.57	Vertical

Produkte
Products

GFSK _M_CH

RE_FCC Test Case_FCC 15C 1GHz-18GHz

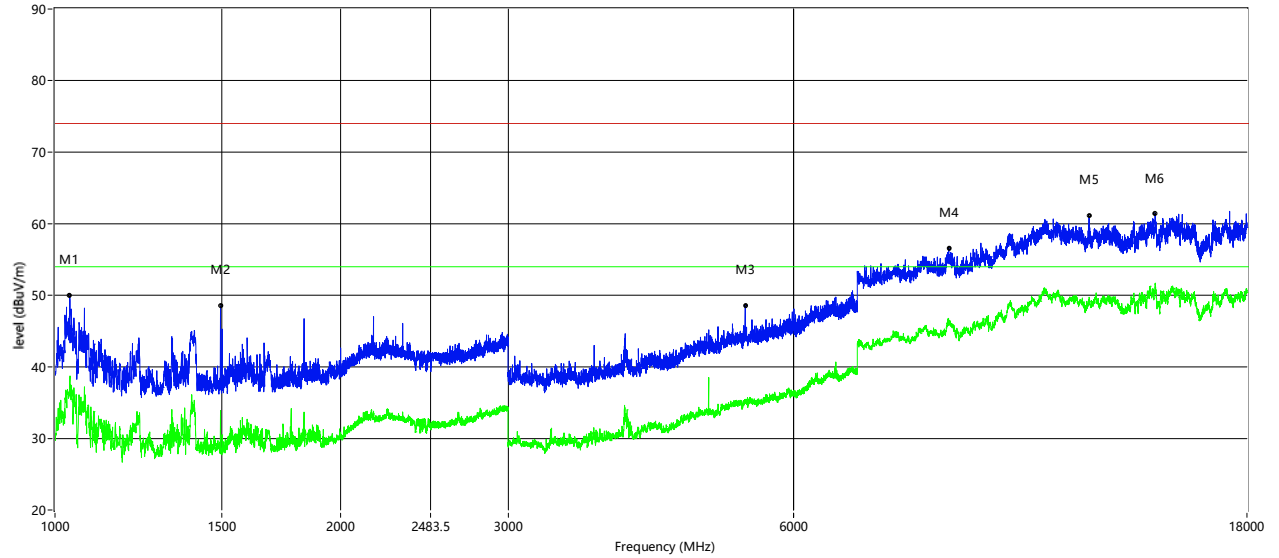


Frequency (MHz)	Peak Reading (dBuV/m)	Average Reading (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin (dB)	ANT
1332	48.40	36.30	-0.84	47.56	35.46	74.00	54.00	-26.44	-18.54	-18.54	Horizontal
2659	43.65	30.55	4.51	48.16	35.06	74.00	54.00	-25.84	-18.94	-18.94	Horizontal
3985	55.87	47.11	-10.25	45.62	36.86	74.00	54.00	-28.38	-17.14	-17.14	Horizontal
8705	52.06	40.65	5.14	57.20	45.79	74.00	54.00	-16.80	-8.21	-8.21	Horizontal
11059	50.66	41.30	9.9	60.56	51.20	74.00	54.00	-13.44	-2.80	-2.80	Horizontal
14400.25	50.37	39.89	11.42	61.79	51.31	74.00	54.00	-12.21	-2.69	-2.69	Horizontal

Produkte
Products

GFSK _M_CH

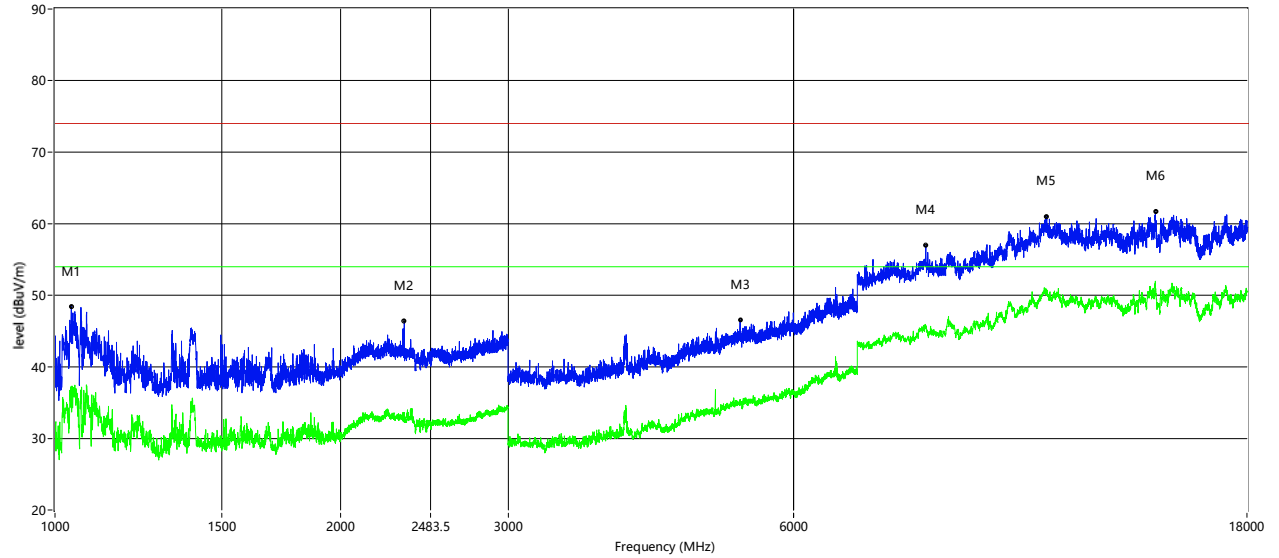
RE_FCC Test Case_FCC 15C 1GHz-18GHz



Frequency (MHz)	Peak Reading (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin(dB)	ANT
1036.5	51.80	39.67	-1.86	49.94	37.81	74.00	54.00	-24.06	-16.19	-16.19	Vertical
1493.5	49.08	34.49	-0.56	48.52	33.93	74.00	54.00	-25.48	-20.07	-20.07	Vertical
5332	53.53	40.42	-4.93	48.60	35.49	74.00	54.00	-25.40	-18.51	-18.51	Vertical
8735.25	51.58	41.10	5.05	56.63	46.15	74.00	54.00	-17.37	-7.85	-7.85	Vertical
12274.5	52.07	40.17	9.03	61.10	49.20	74.00	54.00	-12.90	-4.80	-4.80	Vertical
14408.5	50.16	40.20	11.32	61.48	51.52	74.00	54.00	-12.52	-2.48	-2.48	Vertical

GFSK _H_CH

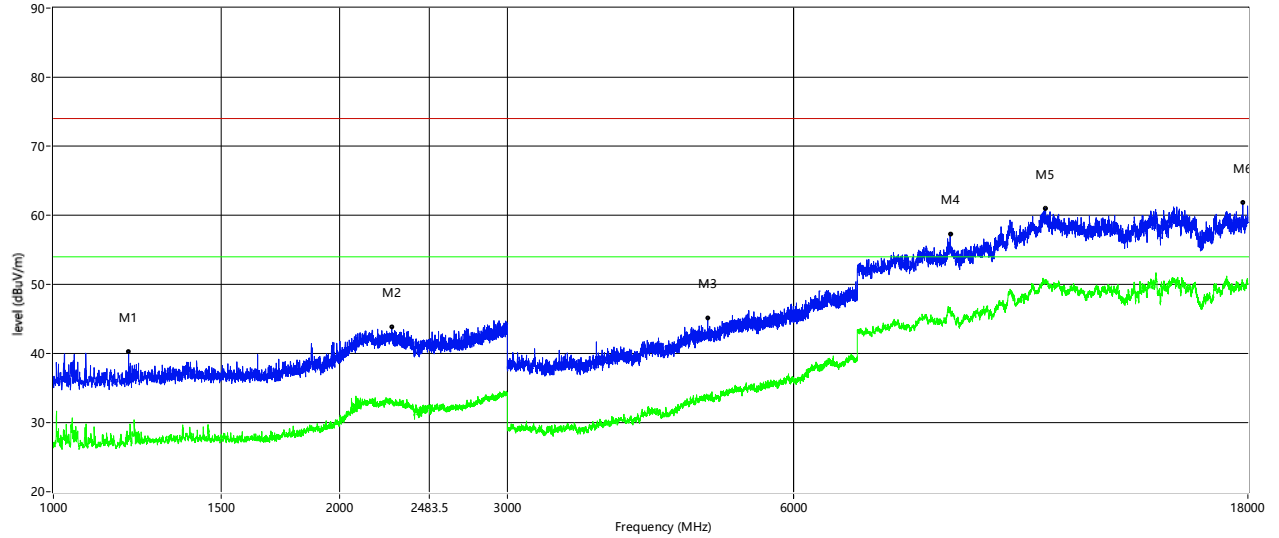
RE_FCC Test Case_FCC 15C 1GHz-18GHz



Frequency (MHz)	Peak Reading (dBuV/m)	Average Reading (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin (dB)	ANT
1038.5	47.36	39.05	-1.86	45.50	37.19	74.00	54.00	-28.50	-16.81	-16.81	Horizontal
2332	42.00	29.21	4.46	46.46	33.67	74.00	54.00	-27.54	-20.33	-20.33	Horizontal
5265	51.52	40.41	-4.96	46.56	35.45	74.00	54.00	-27.44	-18.55	-18.55	Horizontal
8262.25	52.72	41.56	4.22	56.94	45.78	74.00	54.00	-17.06	-8.22	-8.22	Horizontal
11064.5	51.16	41.04	9.87	61.03	50.91	74.00	54.00	-12.97	-3.09	-3.09	Horizontal
14416.75	50.42	40.19	11.23	61.65	51.42	74.00	54.00	-12.35	-2.58	-2.58	Horizontal

GFSK _H_CH

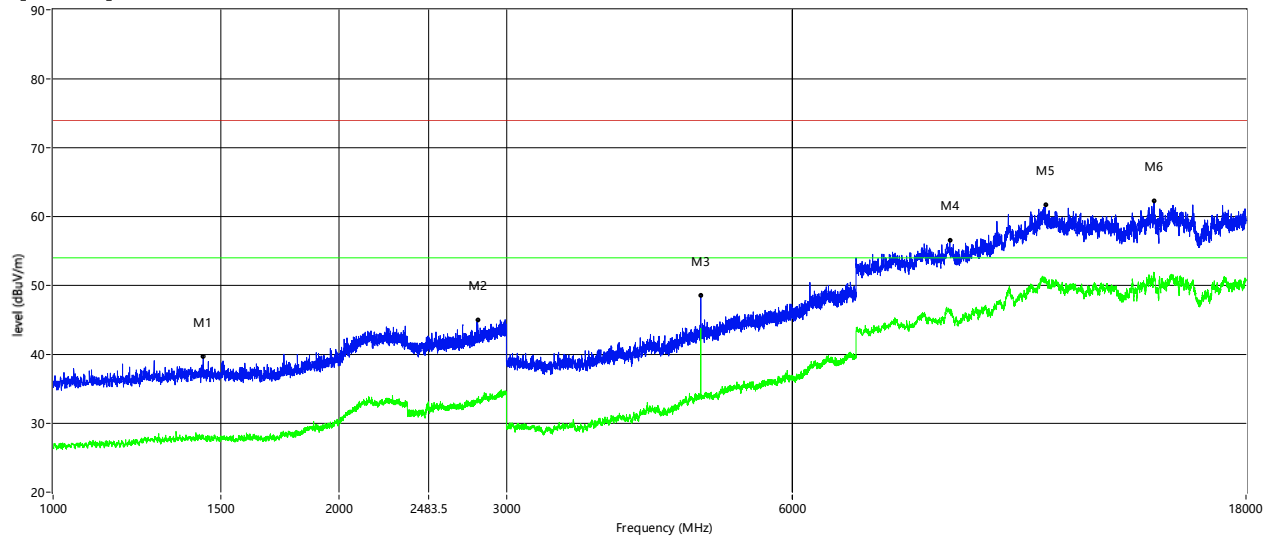
RE_FCC Test Case_FCC 15C 1GHz-18GHz



Frequency (MHz)	Peak Reading (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin(dB)	ANT
1199.5	41.49	29.37	-1.21	40.28	28.16	74.00	54.00	-33.72	-25.84	-25.84	Vertical
2268	39.17	28.59	4.62	43.79	33.21	74.00	54.00	-30.21	-20.79	-20.79	Vertical
4872	51.76	40.58	-6.56	45.20	34.02	74.00	54.00	-28.80	-19.98	-19.98	Vertical
8760.001	52.38	41.69	4.97	57.35	46.66	74.00	54.00	-16.65	-7.34	-7.34	Vertical
11039.75	50.97	40.30	10.01	60.98	50.31	74.00	54.00	-13.02	-3.69	-3.69	Vertical
17785.5	51.72	40.05	10.11	61.83	50.16	74.00	54.00	-12.17	-3.84	-3.84	Vertical

8-DPSK _L_CH

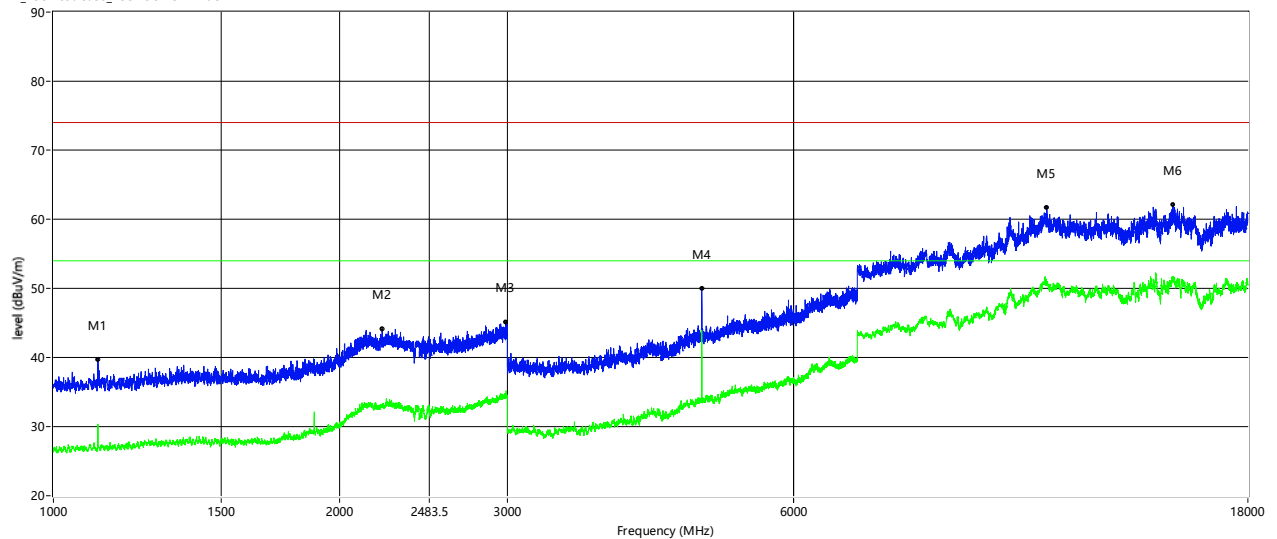
RE_FCC Test Case_FCC 15C 1GHz-18GHz



Frequency (MHz)	Peak Reading (dBuV/m)	Average Reading (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin (dB)	ANT
1438	40.34	28.57	-0.6	39.74	27.97	74.00	54.00	-34.26	-26.03	-26.03	Horizontal
2796.5	39.70	28.03	5.25	44.95	33.28	74.00	54.00	-29.05	-20.72	-20.72	Horizontal
4804	55.59	49.15	-6.96	48.63	42.19	74.00	54.00	-25.37	-11.81	-11.81	Horizontal
8784.75	51.71	41.03	4.9	56.61	45.93	74.00	54.00	-17.39	-8.07	-8.07	Horizontal
11075.5	51.92	40.89	9.81	61.73	50.70	74.00	54.00	-12.27	-3.30	-3.30	Horizontal
14397.6	51.03	40.56	11.41	62.55	51.97	74.00	54.00	-11.45	-2.06	-2.36	Horizontal

8-DPSK _L_CH

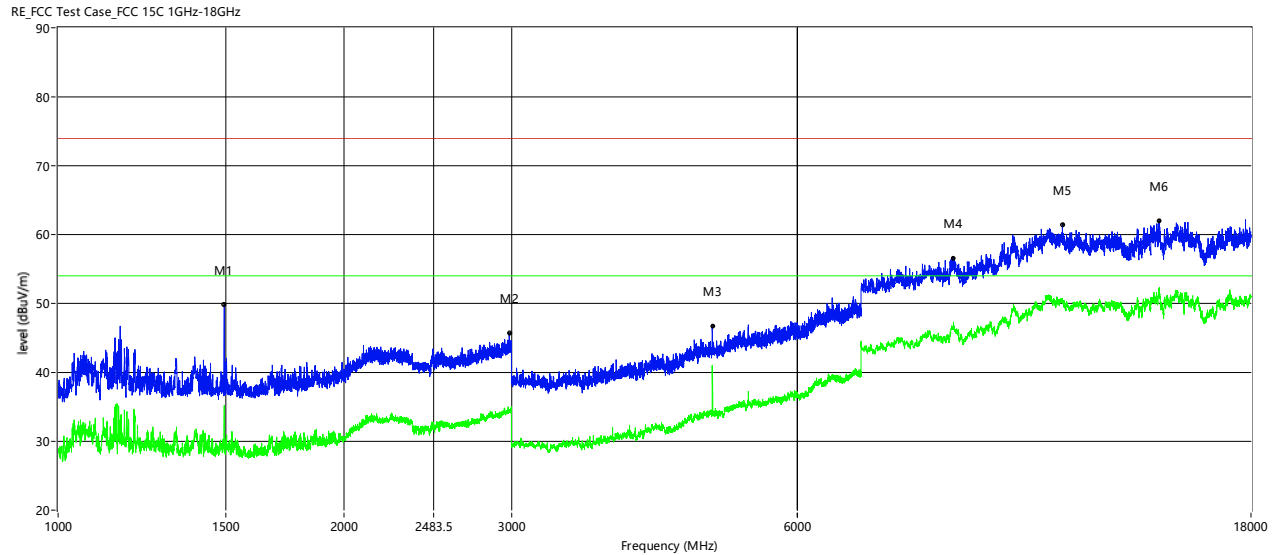
RE_FCC Test Case_FCC 15C 1GHz-18GHz



Frequency (MHz)	Peak Reading (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin(dB)	ANT
1114	41.15	31.80	-1.46	39.69	30.34	74.00	54.00	-34.31	-23.66	-23.66	Vertical
2216	39.87	28.69	4.27	44.14	32.96	74.00	54.00	-29.86	-21.04	-21.04	Vertical
2989.5	39.10	28.22	6.06	45.16	34.28	74.00	54.00	-28.84	-19.72	-19.72	Vertical
4804	56.96	50.90	-6.96	50.00	43.94	74.00	54.00	-24.00	-10.06	-10.06	Vertical
11064.5	51.80	41.04	9.87	61.67	50.91	74.00	54.00	-12.33	-3.09	-3.09	Vertical
15016.25	51.72	40.69	10.38	62.10	51.07	74.00	54.00	-11.90	-2.93	-2.93	Vertical

Produkte
Products

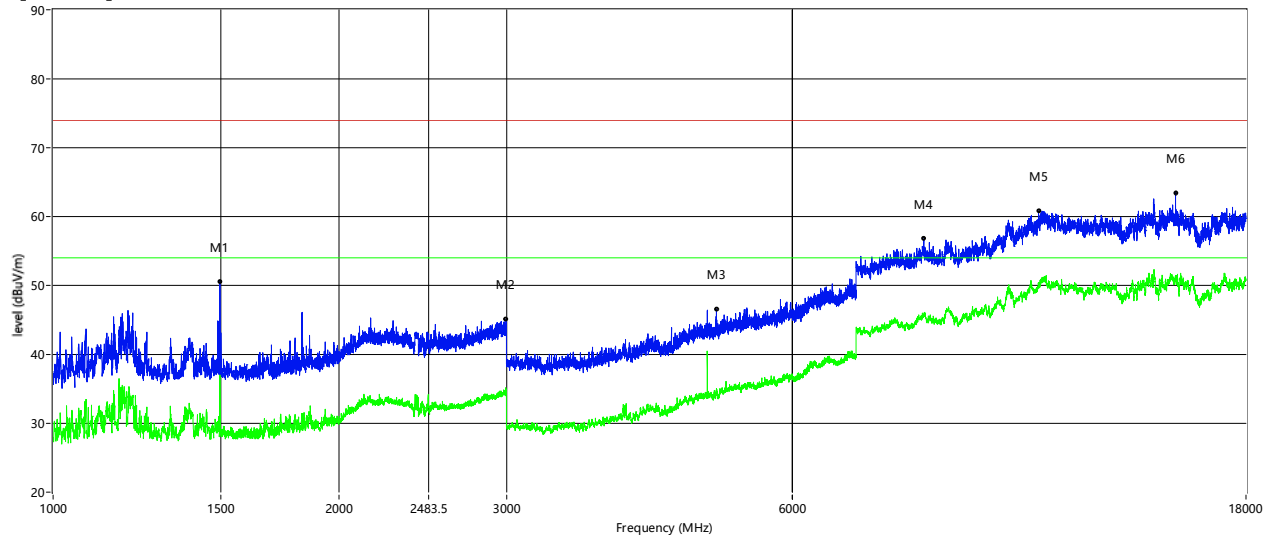
8-DPSK _M_CH



Frequency (MHz)	Peak Reading (dBuV/m)	Average Reading (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin (dB)	ANT
1495	50.46	35.77	-0.56	49.90	35.21	74.00	54.00	-24.10	-18.79	-18.79	Horizontal
2983.5	39.61	28.44	6.04	45.65	34.48	74.00	54.00	-28.35	-19.52	-19.52	Horizontal
4880	53.19	47.52	-6.51	46.68	41.01	74.00	54.00	-27.32	-12.99	-12.99	Horizontal
8757.25	51.64	42.37	4.98	56.62	47.35	74.00	54.00	-17.38	-6.65	-6.65	Horizontal
11402.75	51.74	40.40	9.75	61.49	50.15	74.00	54.00	-12.51	-3.85	-3.85	Horizontal
14422.25	50.82	40.33	11.16	61.98	51.49	74.00	54.00	-12.02	-2.51	-2.51	Horizontal

8-DPSK _M_CH

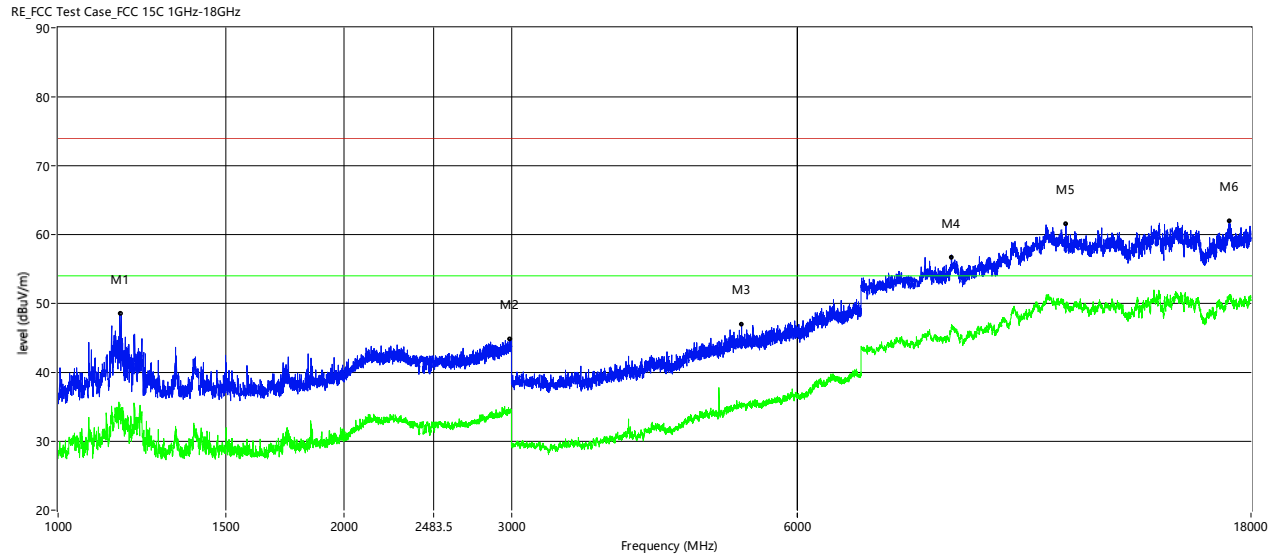
RE_FCC Test Case_FCC 15C 1GHz-18GHz



Frequency (MHz)	Peak Reading (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin(dB)	ANT
1498	51.18	37.57	-0.56	50.62	37.01	74.00	54.00	-23.38	-16.99	-16.99	Vertical
2996	39.06	28.50	6.09	45.15	34.59	74.00	54.00	-28.85	-19.41	-19.41	Vertical
4990	52.88	41.45	-6.38	46.50	35.07	74.00	54.00	-27.50	-18.93	-18.93	Vertical
8245.75	52.57	41.42	4.22	56.79	45.64	74.00	54.00	-17.21	-8.36	-8.36	Vertical
10888.5	51.49	40.75	9.31	60.80	50.06	74.00	54.00	-13.20	-3.94	-3.94	Vertical
15181.25	52.53	39.98	10.9	63.43	50.88	74.00	54.00	-10.57	-3.12	-3.12	Vertical

Produkte
Products

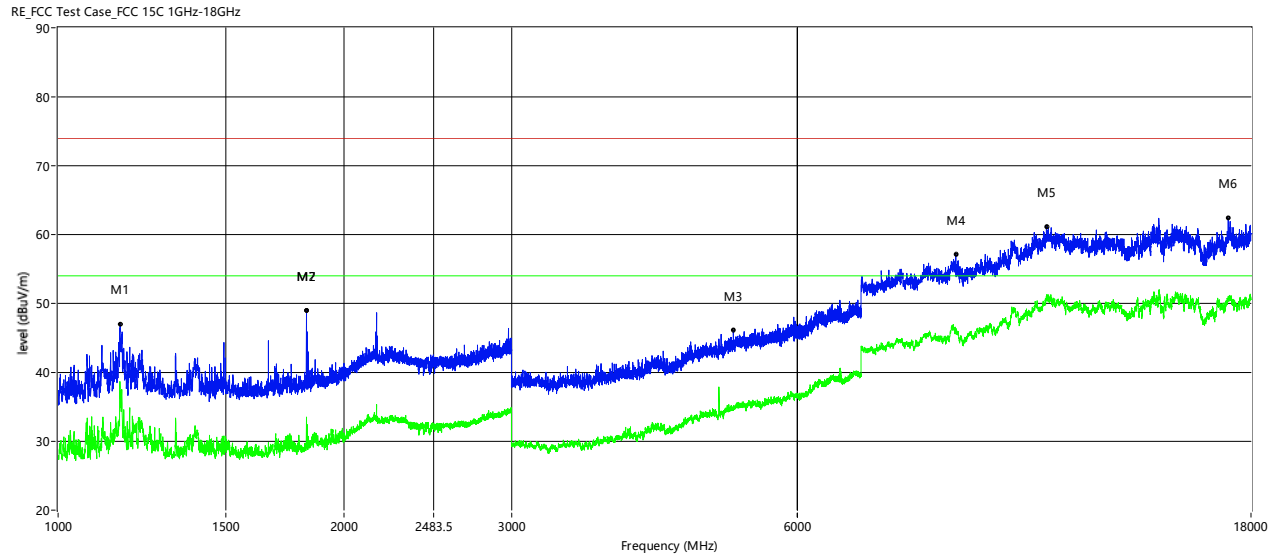
8-DPSK _H_CH



Frequency (MHz)	Peak Reading (dBuV/m)	Average Reading (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin (dB)	ANT
1161.5	49.87	34.97	-1.34	48.53	33.63	74.00	54.00	-25.47	-20.37	-20.37	Horizontal
2986.5	38.76	28.45	6.05	44.81	34.50	74.00	54.00	-29.19	-19.50	-19.50	Horizontal
5241	51.88	40.50	-4.93	46.95	35.57	74.00	54.00	-27.05	-18.43	-18.43	Horizontal
8710.5	51.63	41.30	5.13	56.76	46.43	74.00	54.00	-17.24	-7.57	-7.57	Horizontal
11499	51.65	39.04	9.95	61.60	48.99	74.00	54.00	-12.40	-5.01	-5.01	Horizontal
17087	51.64	40.22	10.39	62.03	50.61	74.00	54.00	-11.97	-3.39	-3.39	Horizontal

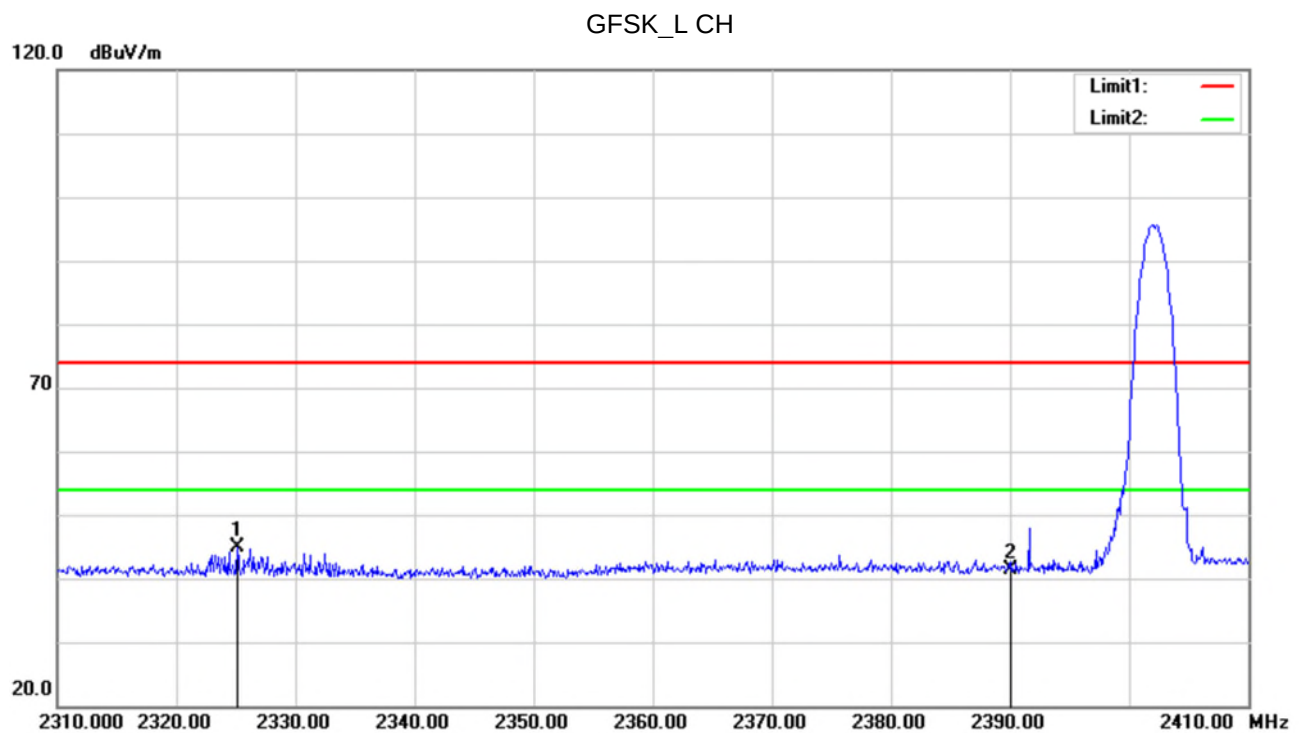
Produkte
Products

8-DPSK _H_CH

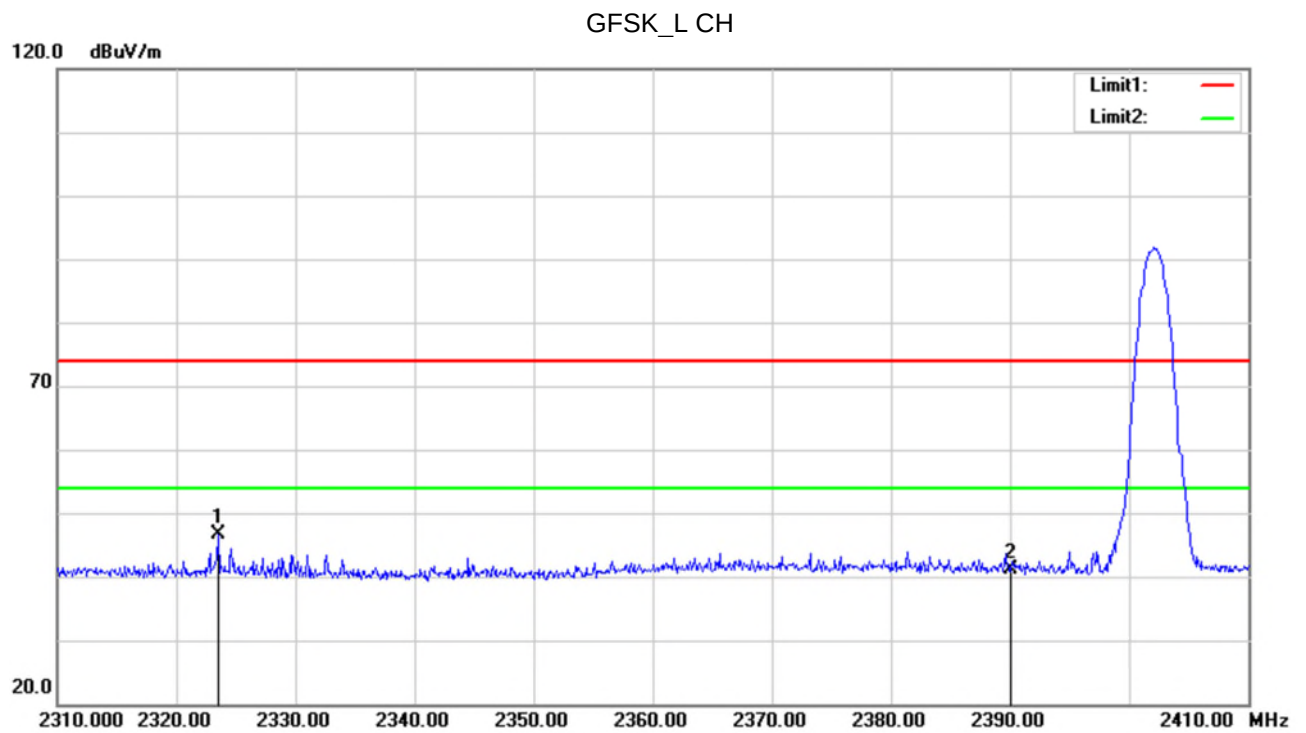


Frequency (MHz)	Peak Reading (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	Peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Over Limit (dB)	AV Over Limit (dB)	Min Margin(dB)	ANT
1162	48.37	37.57	-1.34	47.03	36.23	74.00	54.00	-26.97	-17.77	-17.77	Vertical
1825	48.68	33.21	0.34	49.02	33.55	74.00	54.00	-24.98	-20.45	-20.45	Vertical
5136	51.43	39.82	-5.3	46.13	34.52	74.00	54.00	-27.87	-19.48	-19.48	Vertical
8804	52.38	41.32	4.83	57.21	46.15	74.00	54.00	-16.79	-7.85	-7.85	Vertical
10968.25	51.22	40.72	9.98	61.20	50.70	74.00	54.00	-12.80	-3.30	-3.30	Vertical
17037.5	52.36	40.72	10.03	62.39	50.75	74.00	54.00	-11.61	-3.25	-3.25	Vertical

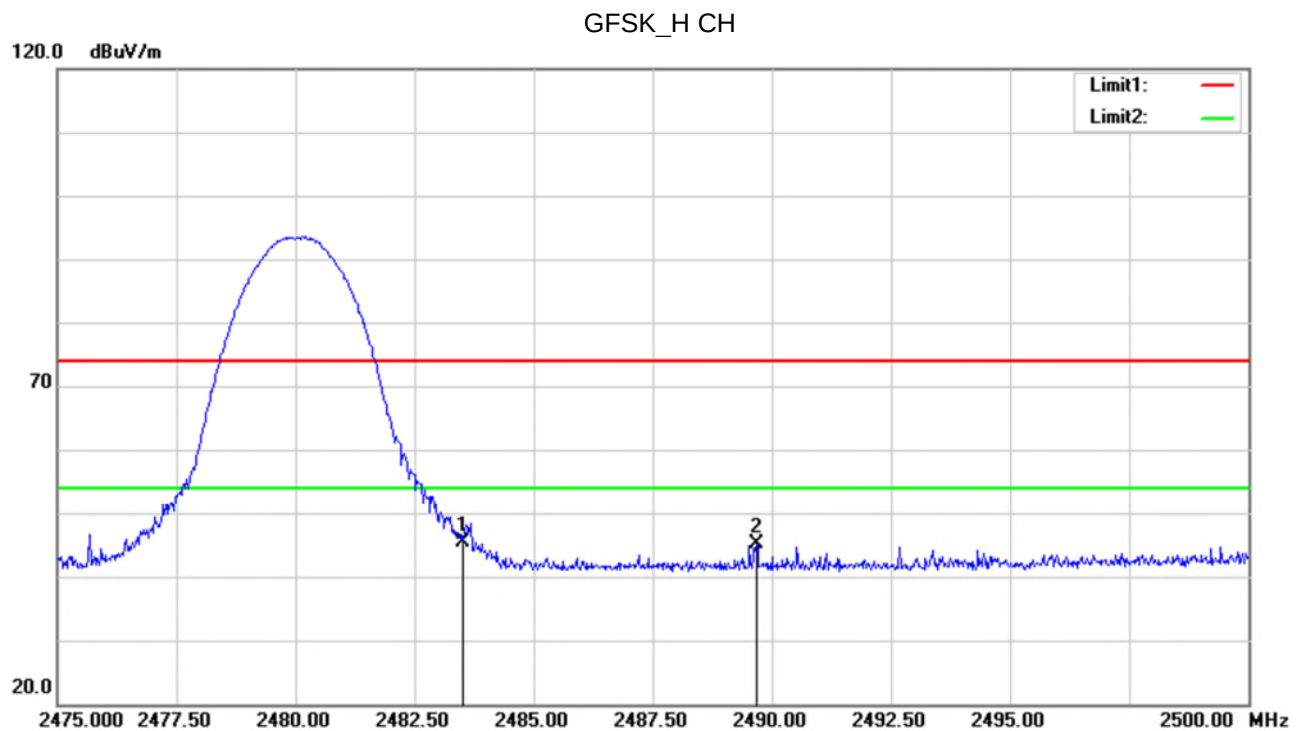
Test Results of Radiated Emissions in Restricted Bands



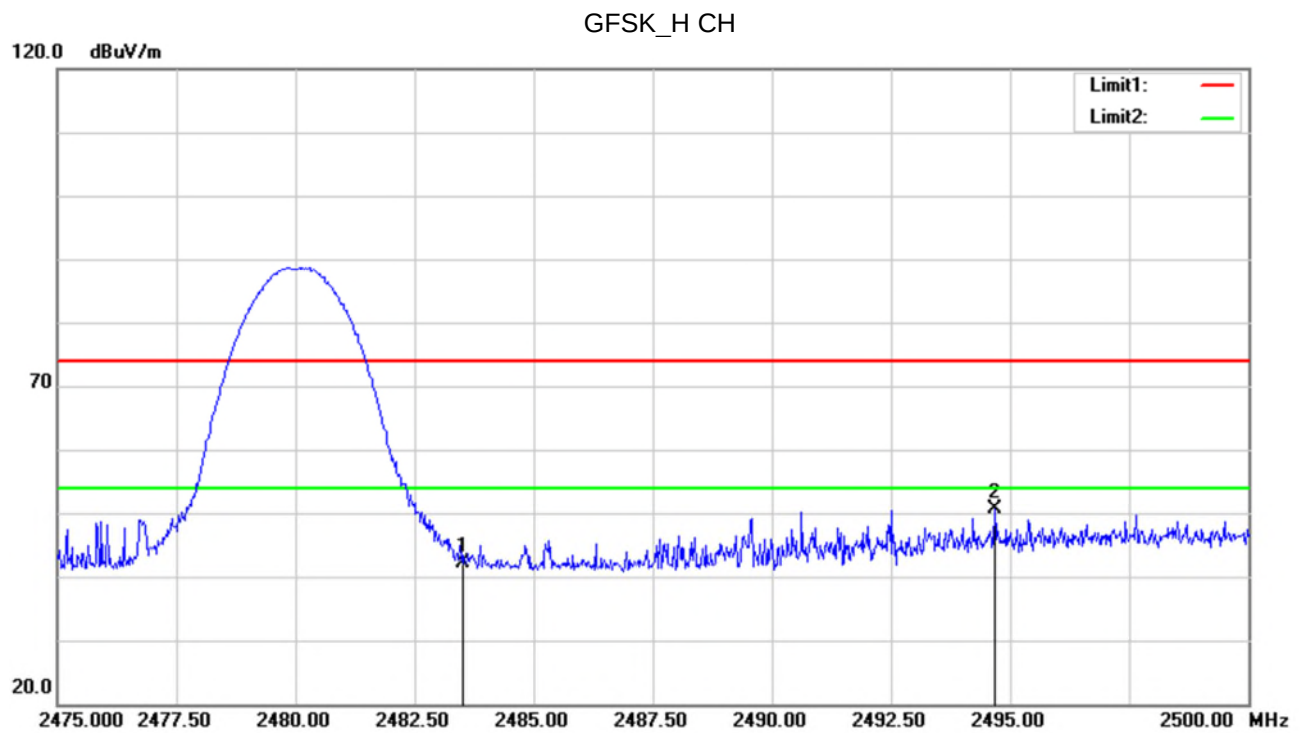
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2325.100	41.35	3.61	44.96	74.00	-29.04	peak
2	2390.000	36.94	4.34	41.28	74.00	-32.72	peak



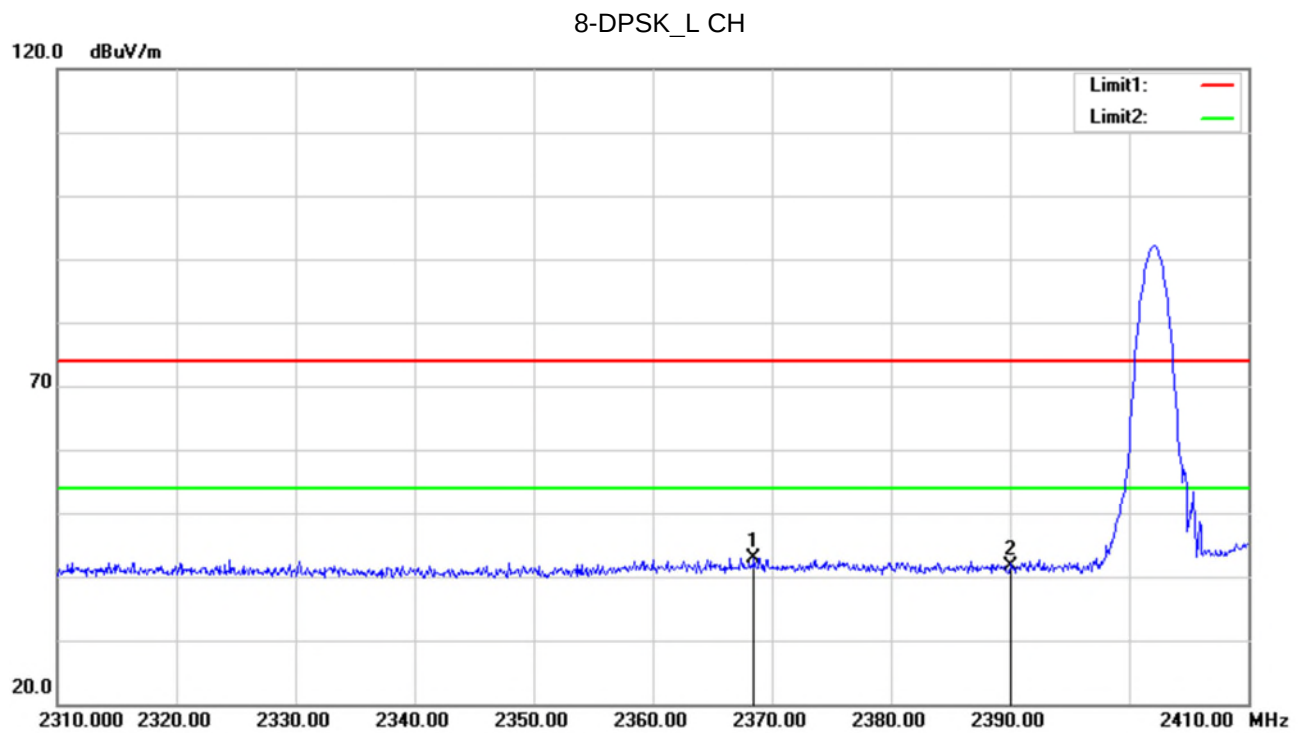
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2323.500	42.96	3.60	46.56	74.00	-27.44	peak
2	2390.000	36.87	4.34	41.21	74.00	-32.79	peak



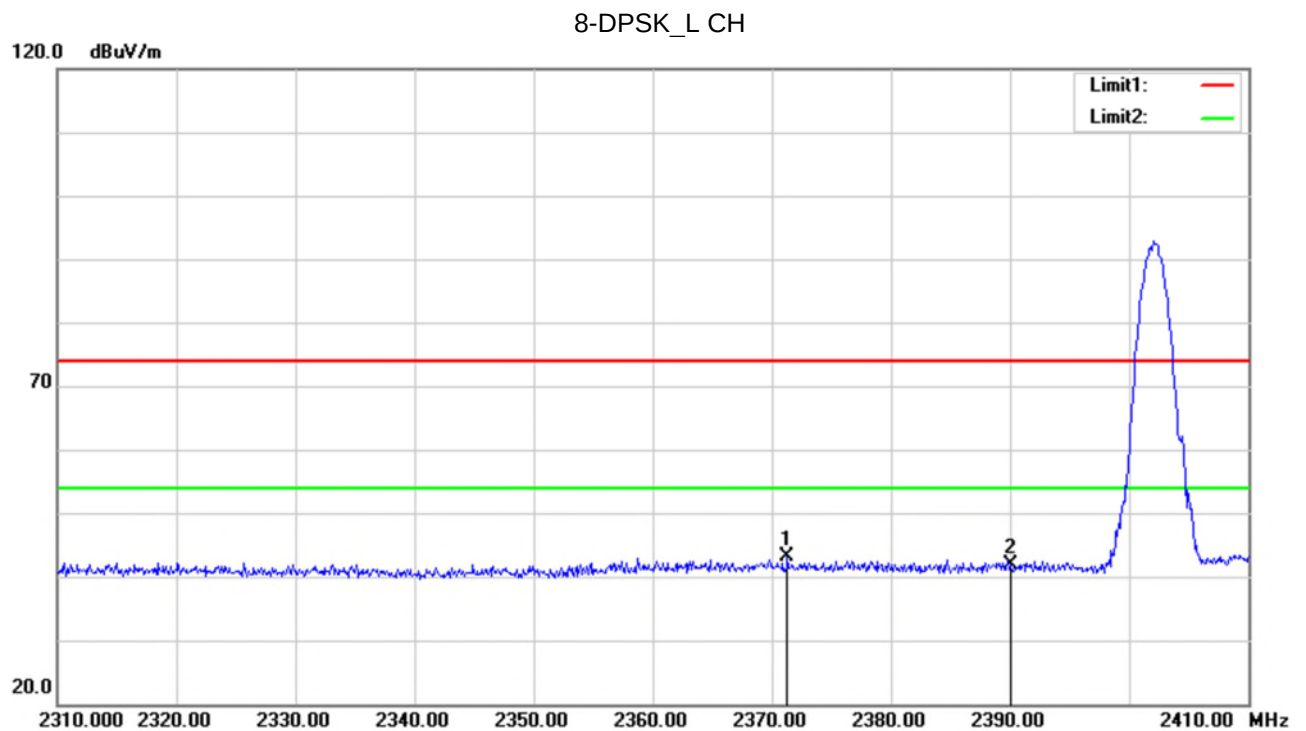
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	40.89	4.60	45.49	74.00	-28.51	peak
2	2489.675	40.60	4.62	45.22	74.00	-28.78	peak



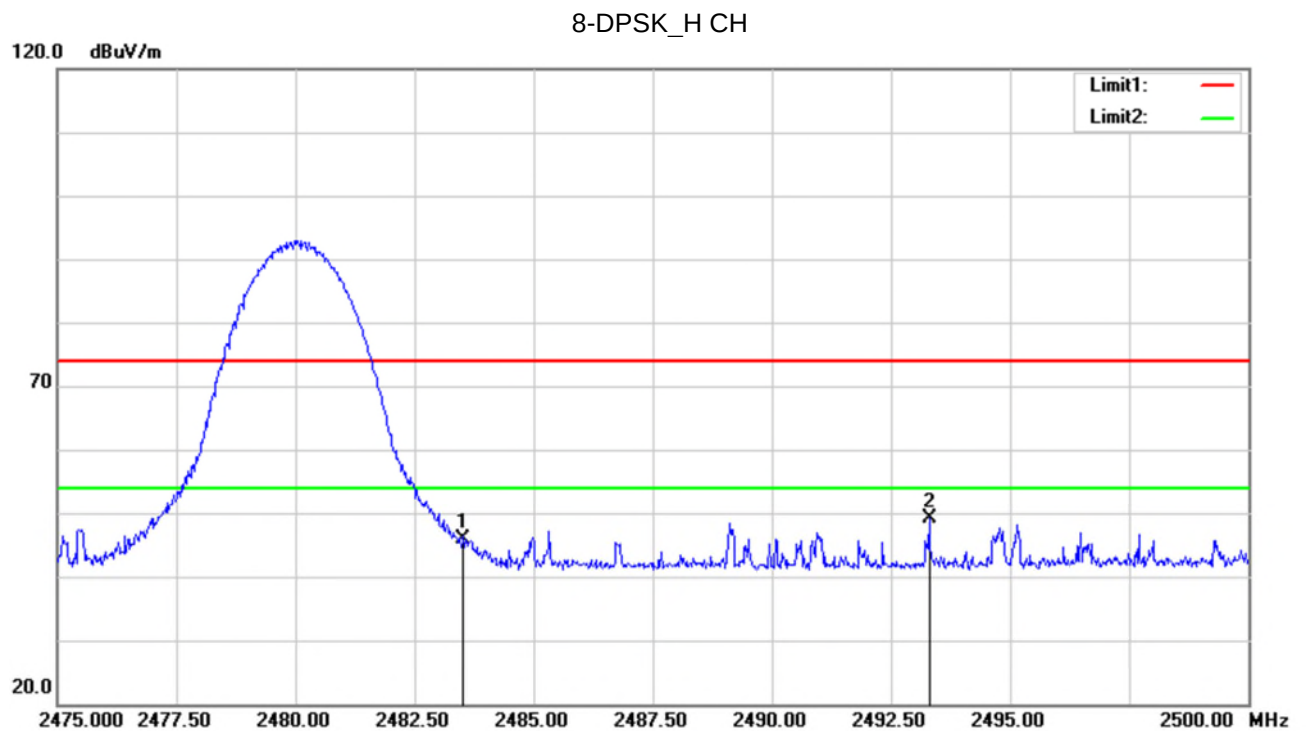
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	37.43	4.60	42.03	74.00	-31.97	peak
2	2494.675	45.95	4.63	50.58	74.00	-23.42	peak



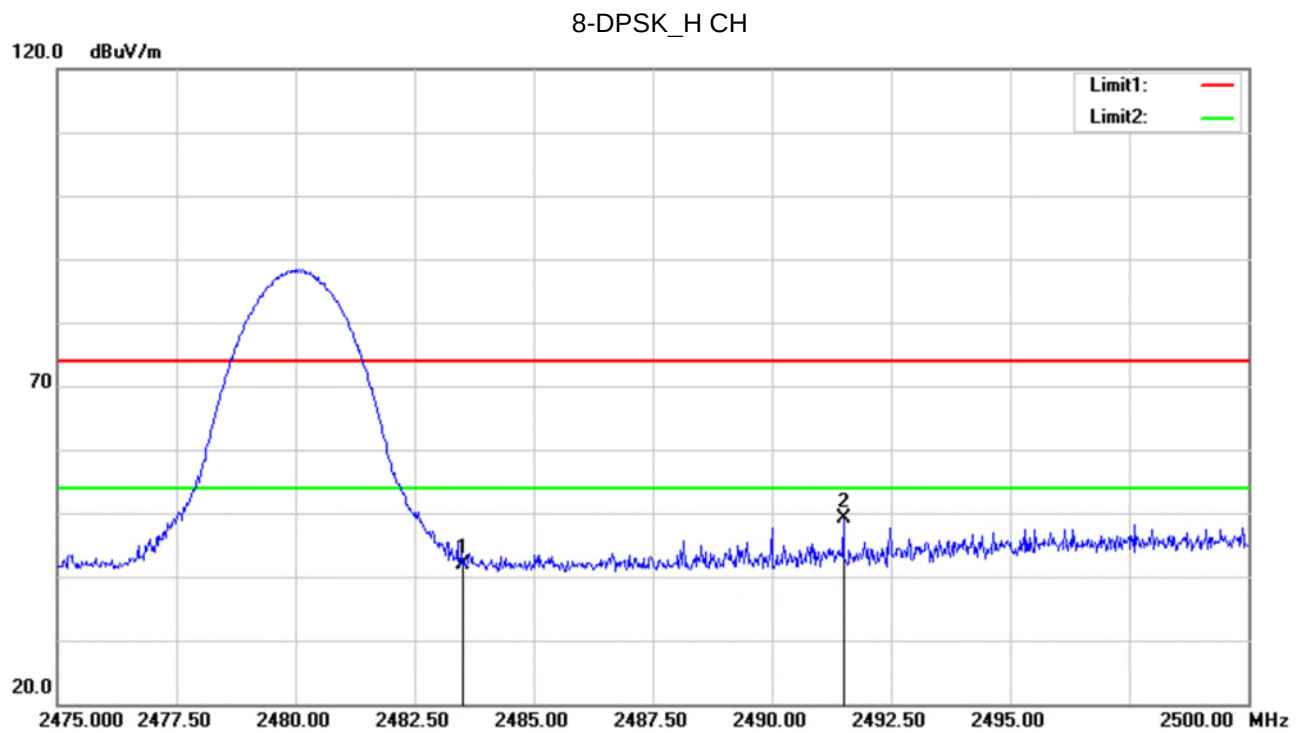
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2368.500	38.91	4.01	42.92	74.00	-31.08	peak
2	2390.000	37.27	4.34	41.61	74.00	-32.39	peak



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2371.300	39.01	4.06	43.07	74.00	-30.93	peak
2	2390.000	37.53	4.34	41.87	74.00	-32.13	peak

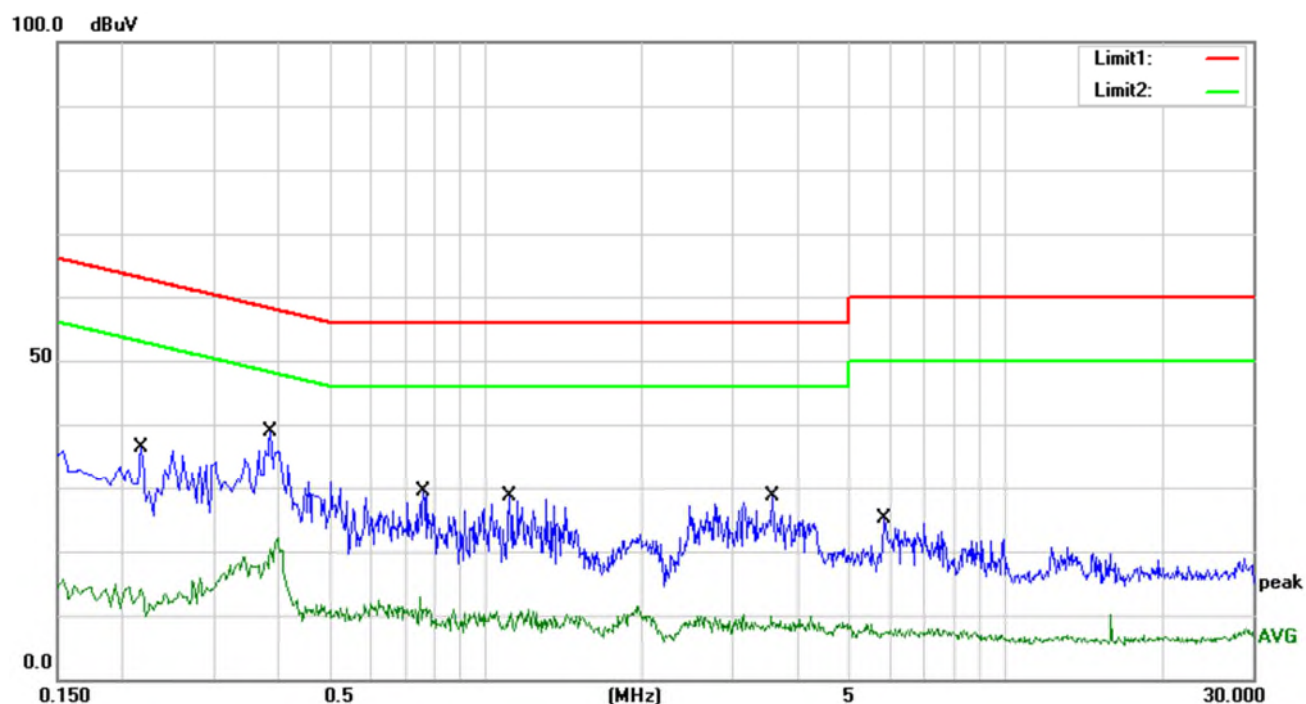


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	41.25	4.60	45.85	74.00	-28.15	peak
2	2493.300	44.41	4.64	49.05	74.00	-24.95	peak

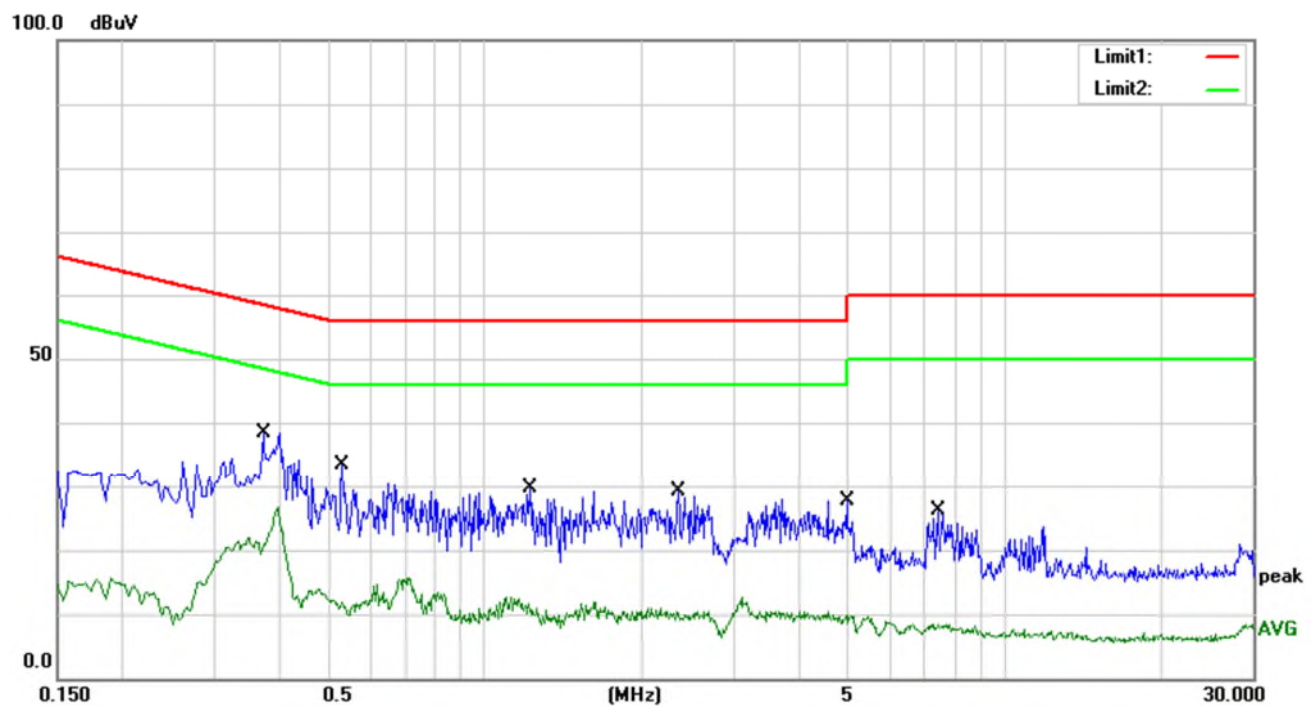


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	37.28	4.60	41.88	74.00	-32.12	peak
2	2491.500	44.61	4.63	49.24	74.00	-24.76	peak

Test Results of Conducted Emissions



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Ant.Polar	Remark
1	0.2180	26.49	9.94	36.43	62.89	-26.46	L	QP
2	0.2180	4.09	9.94	14.03	52.89	-38.86	L	AVG
3	0.3860	28.73	10.09	38.82	58.15	-19.33	L	QP
4	0.3860	10.23	10.09	20.32	48.15	-27.83	L	AVG
5	0.7620	19.52	9.85	29.37	56.00	-26.63	L	QP
6	0.7620	0.98	9.85	10.83	46.00	-35.17	L	AVG
7	1.1140	18.70	9.81	28.51	56.00	-27.49	L	QP
8	1.1140	-0.35	9.81	9.46	46.00	-36.54	L	AVG
9	3.5700	18.65	9.93	28.58	56.00	-27.42	L	QP
10	3.5700	-1.63	9.93	8.30	46.00	-37.70	L	AVG
11	5.8460	15.30	9.91	25.21	60.00	-34.79	L	QP
12	5.8460	-2.70	9.91	7.21	50.00	-42.79	L	AVG



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Ant.Polar	Remark
1	0.3740	28.32	10.08	38.40	58.41	-20.01	N	QP
2	0.3740	10.73	10.08	20.81	48.41	-27.60	N	AVG
3	0.5300	23.35	10.00	33.35	56.00	-22.65	N	QP
4	0.5300	1.97	10.00	11.97	46.00	-34.03	N	AVG
5	1.2180	19.90	9.80	29.70	56.00	-26.30	N	QP
6	1.2180	0.88	9.80	10.68	46.00	-35.32	N	AVG
7	2.3460	19.34	9.80	29.14	56.00	-26.86	N	QP
8	2.3460	0.40	9.80	10.20	46.00	-35.80	N	AVG
9	4.9540	17.79	9.85	27.64	56.00	-28.36	N	QP
10	4.9540	-1.12	9.85	8.73	46.00	-37.27	N	AVG
11	7.4380	16.23	9.93	26.16	60.00	-33.84	N	QP
12	7.4380	-1.56	9.93	8.37	50.00	-41.63	N	AVG