



CTC Laboratories, Inc.

TEST REPORT

Report No.: CTC2026098901
FCC ID.....: CNFACORT1
IC: 10193A-ACORT1
FCC Applicant/Manufacturer.....: GoPro, Inc.
Address.....: 3025 Clearview Way, San Mateo, CA 94402, USA
ISED Applicant/Manufacturer.....: GoPro, Inc.
Address.....: 3025 Clearview Way, San Mateo, CA 94402, USA
Product Name: TRANSMITTER
Trade Mark: GoPro 
Model/Type reference.....: ACORT1
Listed Model(s).....: /
Standard: FCC CFR Title 47 Part 15 Subpart C Section 15.247
RSS-247 Issue 4
Test Report Form No: CTC-TR-059_A3
Master TRF: Dated 2026-01-01
Date of receipt of test sample.....: Mar. 03, 2026
Date of testing.....: Mar. 03, 2026 ~ Mar. 07, 2026
Date of issue.....: Mar. 10, 2026
Result.....: PASS

Compiled by:

(Printed name+signature)

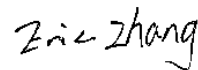
Lucy Lan



Supervised by:

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Eric Zhang



Approved by:

(Printed name+signature)

Totti Zhao



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CTC Laboratories, Inc.

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TRF No: CTC-TR-059_A3

Master TRF : Dated 2026-01-01

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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

FCC test standards:

[FCC Rules Part 15.247](#): Operation within the bands 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz.

[ANSI C63.10-2020](#): American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

ISED test standards:

[RSS-247 Issue 4](#): Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices.

[RSS-Gen Issue 5](#): General Requirements for Compliance of Radio Apparatus.

[ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024](#): American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

1.2. Report Version

Revised No.	Report No.	Date of issue	Description
01	CTC2026098901	Mar. 10, 2026	Original



1.3. Test Description

FCC Part 15 Subpart C (15.247) / RSS-247 Issue 4				
Test Item	Standard Section		Result	Note
	FCC	ISED		
Antenna Requirement	15.203	RSS-Gen 6.8	PASS	
Conducted Emission	15.207	RSS-Gen 8.8	PASS	
Restricted Bands	15.205	RSS-Gen 8.10	PASS	
Hopping Channel Separation	15.247(a)(1)	RSS-247 6.2.3.1(a)	PASS	
Dwell Time	15.247(a)(iii)	RSS-247 6.2.3.1 (b)	PASS	
Maximum Output Power	15.247(b)(1)	RSS-247 6.2.3.2	PASS	
Number of Hopping Frequency	15.247(a)(iii)	RSS-247 6.2.3.1 (b)	PASS	
Conducted Band Edge and Spurious Emissions	15.247(d)	RSS-247 6.6	PASS	
Radiated Band Edge and Spurious Emissions	15.205&15.209& 15.247(d)	RSS-247 6.6	PASS	
Radiated Spurious Emission	15.247(d) & 15.209	RSS-247 5.5& RSS-Gen 8.9	PASS	
20dB Bandwidth	15.247(a)	RSS-247 6.2.2.1	PASS	
Occupied Bandwidth	/	RSS-Gen 6.7	PASS	

Note:

1. The measurement uncertainty is not included in the test result.
2. N/A: means this test item is not applicable for this device according to the technology characteristic of device.



1.4. Test Facility

Address of the report laboratory

CTC Laboratories, Inc.

Add: Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luh Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China

Laboratory accreditation

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

A2LA-Lab Cert. No.: 4340.01

CTC Laboratories, Inc. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

Industry Canada (Registration No.: 9783A, CAB Identifier: CN0029)

CTC Laboratories, Inc. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Jan, 2016.

FCC (Registration No.: 951311, Designation Number CN1208)

CTC Laboratories, Inc. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 951311, Aug 26, 2017.



1.5. Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the CTC Laboratories, Inc. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Below is the best measurement capability for CTC Laboratories, Inc.

Test Items	Measurement Uncertainty	Notes
20dB Emission Bandwidth	$\pm 0.0196\%$	(1)
Carrier Frequency Separation	$\pm 1.9\%$	(1)
Number of Hopping Channel	$\pm 1.9\%$	(1)
Time of Occupancy	$\pm 0.028\%$	(1)
Max Peak Conducted Output Power	± 0.743 dB	(1)
Band-edge Spurious Emission	± 1.328 dB	(1)
Conducted RF Spurious Emission	9kHz-1GHz: ± 0.746 dB 1GHz-26GHz: ± 1.328 dB	(1)
Conducted Emissions 9kHz~30MHz	± 3.08 dB	(1)
Radiated Emissions 30~1000MHz	± 4.51 dB	(1)
Radiated Emissions 1~18GHz	± 5.84 dB	(1)
Radiated Emissions 18~40GHz	± 6.12 dB	(1)

Note (1): This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

1.6. Environmental Conditions

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

Temperature:	15 °C to 35 °C
Relative Humidity:	20 % to 75 %
Air Pressure:	101 kPa



2. GENERAL INFORMATION

2.1. Client Information

Applicant:	GoPro, Inc.
Address:	3025 Clearview Way, San Mateo, CA 94402, USA
Manufacturer:	GoPro, Inc.
Address:	3025 Clearview Way, San Mateo, CA 94402, USA

2.2. General Description of EUT

Product Name:	TRANSMITTER
Trade Mark:	GoPro 
Model/Type reference:	ACORT1
Listed Model(s):	/
Model Difference:	/
Sample ID:	CTC-PO260113-009-S005
Power Supply:	Input: 5V $\overline{=}$ 0.1A
Hardware Version:	EVT
Software Version:	V 1.0.345
BR+EDR	
Modulation:	GFSK, $\pi/4$ -DQPSK, 8-DPSK
Operation Frequency:	2402MHz~2480MHz
Channel Number:	79
Channel Separation:	1MHz
Antenna Type:	Double-sided FPC Antenna
Antenna Gain:	-0.82dBi



2.3. Accessory Equipment Information

Equipment Information			
Name	Model	S/N	Manufacturer
Notebook	ThinkBook 14 G3 ACL	/	Lenovo
Power Adapter	A2692	/	Anker
Cable Information			
Name	Shielded Type	Ferrite Core	Length
USB Cable	Unshielded	NO	150cm
Test Software Information			
Name	Version	/	/
Airoha.Tool.Kit	v3.10.0.4	/	/



2.4. Operation State

Operation Frequency List: The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing. BT EDR, 79 channels are provided to the EUT. Channels 00/39/78 were selected for testing.

Operation Frequency List:

Channel	Frequency (MHz)
00	2402
01	2403
:	:
38	2440
39	2441
40	2442
:	:
77	2479
78	2480

Note: The display in grey were the channel selected for testing.

Test Mode:

For RF test items:
The engineering test program was provided and enabled to make EUT continuous transmit.
For AC power line conducted emissions:
The EUT charges through the adapter.
For Radiated spurious emissions test item:
The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

Power setting:

Mode	power setting
GFSK/ $\pi/4$ -DQPSK/ 8-DPSK	61



2.5. Measurement Instruments List

Radiated emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-759	Oct. 16, 2027
2	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-648	Dec. 11, 2026
3	Test Receiver	Keysight	N9038A	MY56400071	Dec. 12, 2026
4	Broadband Amplifier	Schwarzbeck	BBV9743B	259	Dec. 12, 2026
5	Mirowave Broadband Amplifier	Schwarzbeck	BBV9718C	111	Dec. 12, 2026
6	LOOP Antenna	ETS	6507	1446	Dec. 17, 2026
7	3m chamber 3	YIHENG	EE106	/	Aug. 28, 2026
8	Test Software	FARA	EZ-EMC	FA-03A2	/

Radiated emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-1013	Dec. 17, 2026
2	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-647	Oct. 16, 2027
3	Spectrum Analyzer	R&S	FSV40-N	101654	Dec. 12, 2026
4	Pre-Amplifier	SONOMA	310	186194	Dec. 12, 2026
5	Low Noise Pre-Amplifier	EMCI	EMC051835	980075	Dec. 12, 2026
6	Test Receiver	R&S	ESCI7	100967	Dec. 12, 2026
7	3m chamber 2	Frankonia	EE025	/	Oct. 18, 2027
8	Test Software	FARA	EZ-EMC	FA-03A2	/

Conducted emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	LISN	R&S	ENV216	101112	Dec. 12, 2026
2	LISN	R&S	ENV216	101113	Dec. 12, 2026
3	EMI Test Receiver	R&S	ESCI	100524	Dec. 12, 2026
4	ISN CAT6	Schwarzbeck	NTFM 8158	CAT6-8158-0046	Dec. 12, 2026
5	ISN CAT5	Schwarzbeck	NTFM 8158	CAT5-8158-0046	Dec. 12, 2026
6	Test Software	R&S	EMC32	6.10.10	/

RF Test System - SRD						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
1	Spectrum Analyzer	R&S	FSV40-N	101654	Dec. 13, 2025	Dec. 12, 2026
2	RF Control Unit (including power meter)	Tonscend	JS0806-2	/	Dec. 13, 2025	Dec. 12, 2026
3	RF Cable	HUBER+SUHNER	SUCOFLEX101PE	RF-09	Apr. 16, 2025	Apr. 15, 2026
Test Software						
Name		Manufacturer			Software Version	
JS1120-3		Tonscend			V3.6.21	

Note: 1. The Cal. Interval was one year.

2. The Cal. Interval was three years of the antenna.

3. The cable loss has been calculated in test result which connection between each test instruments.

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3. TEST ITEM AND RESULTS

3.1. Conducted Emission

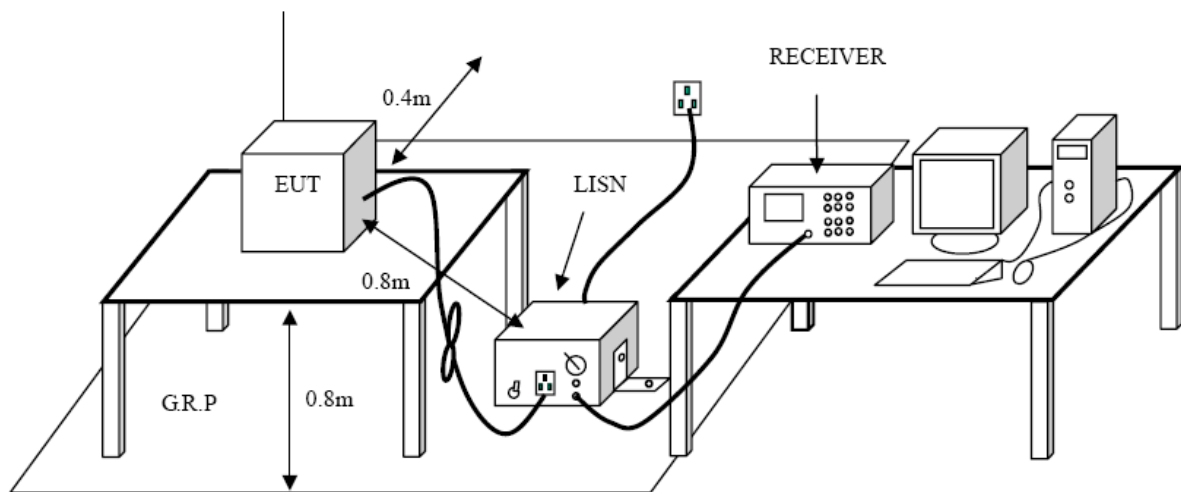
Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.207 / RSS-Gen 8.8

Frequency (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46 *
0.5 - 5	56	46
5 - 30	60	50

* Decreases with the logarithm of the frequency.

Test Configuration



Test Procedure

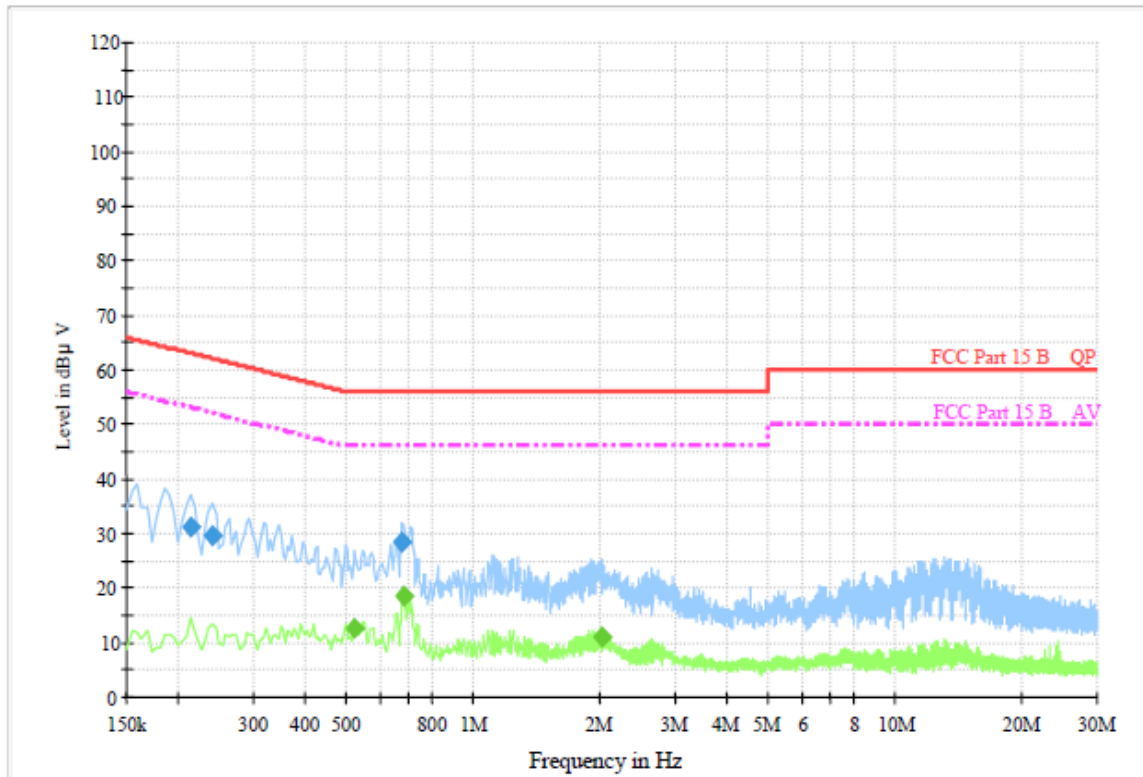
1. The EUT was setup according to ANSI C63.10 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm / 50 μH coupling impedance for the measuring equipment.
4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
8. During the above scans, the emissions were maximized by cable manipulation.

Test Mode

Please refer to the clause 2.4.

**Test Result**

Test Voltage:	AC 120V/60Hz
Terminal:	Line
Remark:	Only worse case is reported

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.213000	31.1	1000.00	9.000	On	L1	9.3	32.0	63.1	
0.240000	29.7	1000.00	9.000	On	L1	9.3	32.4	62.1	
0.676500	28.4	1000.00	9.000	On	L1	9.7	27.6	56.0	

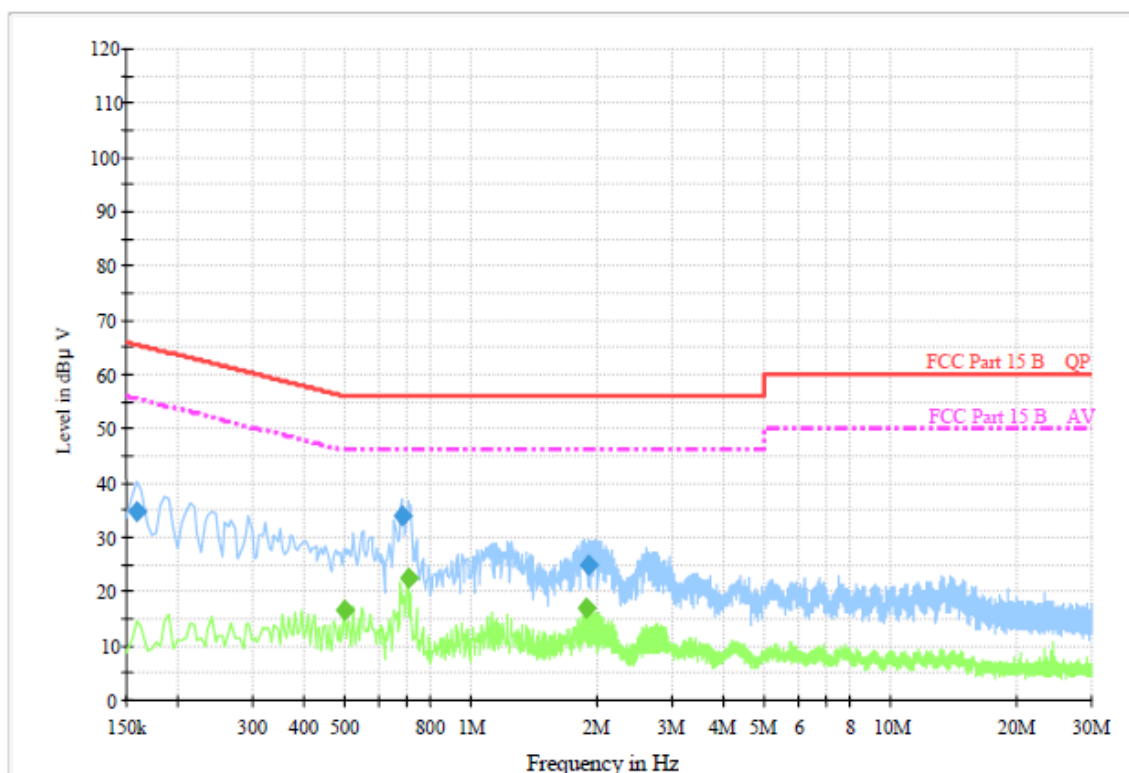
Final Measurement Detector 2

Frequency (MHz)	Average (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.519000	12.8	1000.00	9.000	On	L1	9.4	33.2	46.0	
0.685500	18.7	1000.00	9.000	On	L1	9.7	27.3	46.0	
2.008500	11.1	1000.00	9.000	On	L1	9.9	34.9	46.0	

Emission Level = Read Level + Correct Factor



Test Voltage:	AC 120V/60Hz
Terminal:	Neutral
Remark:	Only worse case is reported



Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
0.159000	34.6	1000.00	9.000	On	N	9.4	30.9	65.5	
0.681000	34.0	1000.00	9.000	On	N	9.1	22.0	56.0	
1.905000	25.0	1000.00	9.000	On	N	9.6	31.0	56.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dBµ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
0.496500	16.6	1000.00	9.000	On	N	9.6	29.5	46.1	
0.703500	22.5	1000.00	9.000	On	N	9.1	23.5	46.0	
1.878000	16.8	1000.00	9.000	On	N	9.6	29.2	46.0	

Emission Level = Read Level + Correct Factor

3.2. Radiated Emission

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.209 / RSS-Gen 8.9

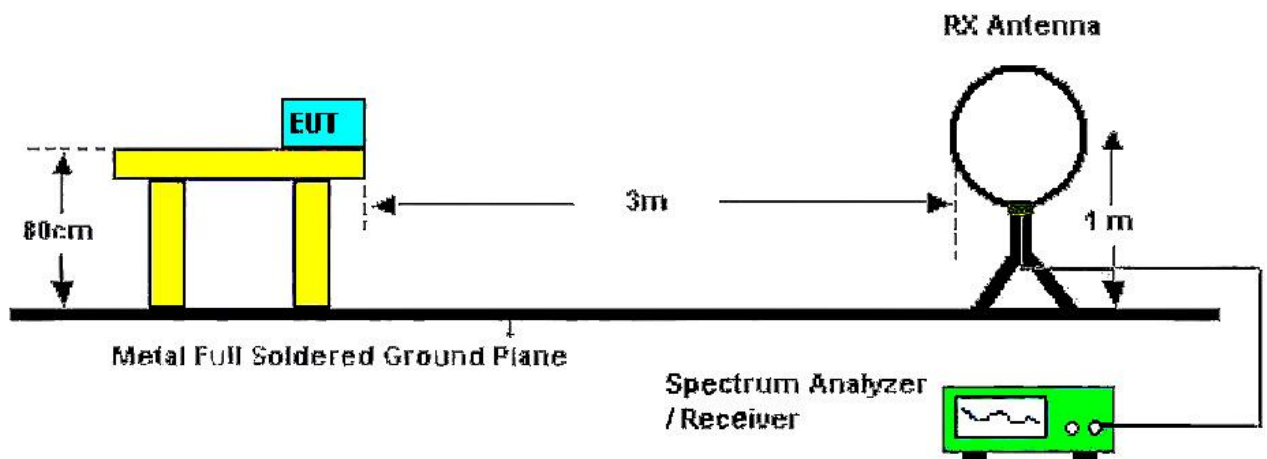
Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F (kHz)	300
0.490~1.705	24000/F (kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

Frequency Range (MHz)	dBμV/m (at 3 meters)	
	Peak	Average
Above 1000	74	54

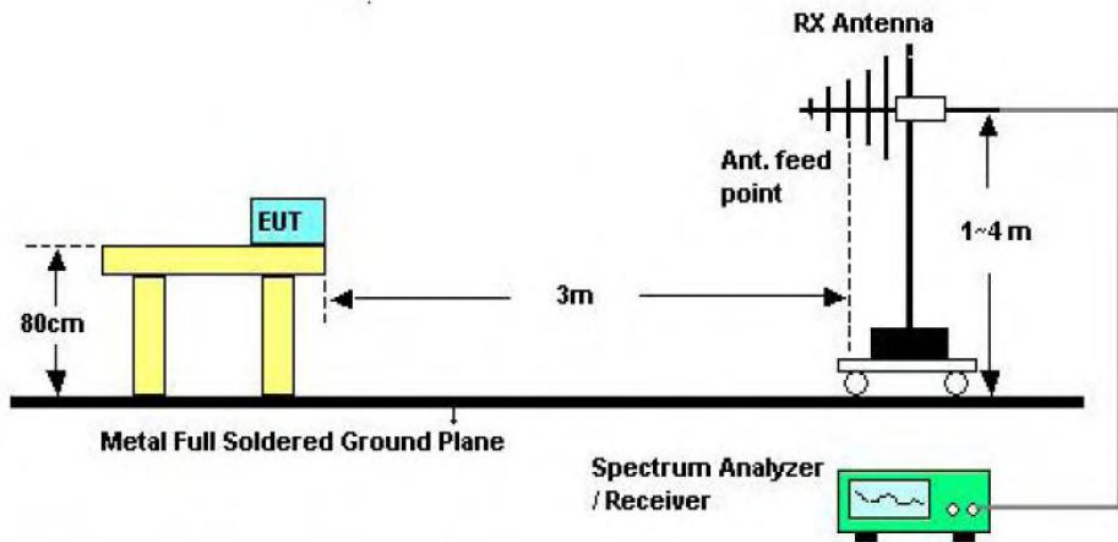
Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBμV/m)=20log Emission Level (μV/m).

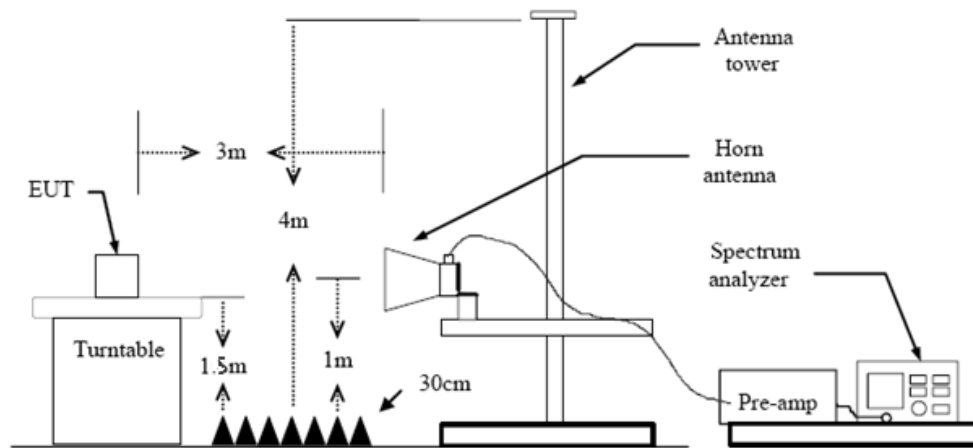
Test Configuration



Below 30MHz Test Setup



30-1000MHz Test Setup



Above 1GHz Test Setup

Test Procedure

1. The EUT was setup and tested according to ANSI C63.10.
 2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
 4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
 5. Set to the maximum power setting and enable the EUT transmit continuously.
 6. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) 9k – 150kHz:
RBW=300 Hz, VBW=1 kHz, Sweep=auto, Detector function=peak, Trace=max hold
 - (3) 0.15M – 30MHz:
RBW=10 kHz, VBW=30 kHz, Sweep=auto, Detector function=peak, Trace=max hold
 - (4) 30M - 1 GHz:
RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold
- 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) From 1 GHz to 10th harmonic:

RBW=1MHz, VBW=3MHz Peak detector for Peak value.

RBW=1MHz, VBW see note 1 with Peak Detector for Average Value.

Note 1: For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 3.10 Duty Cycle.

Test Mode

Please refer to the clause 2.4.

Test Result

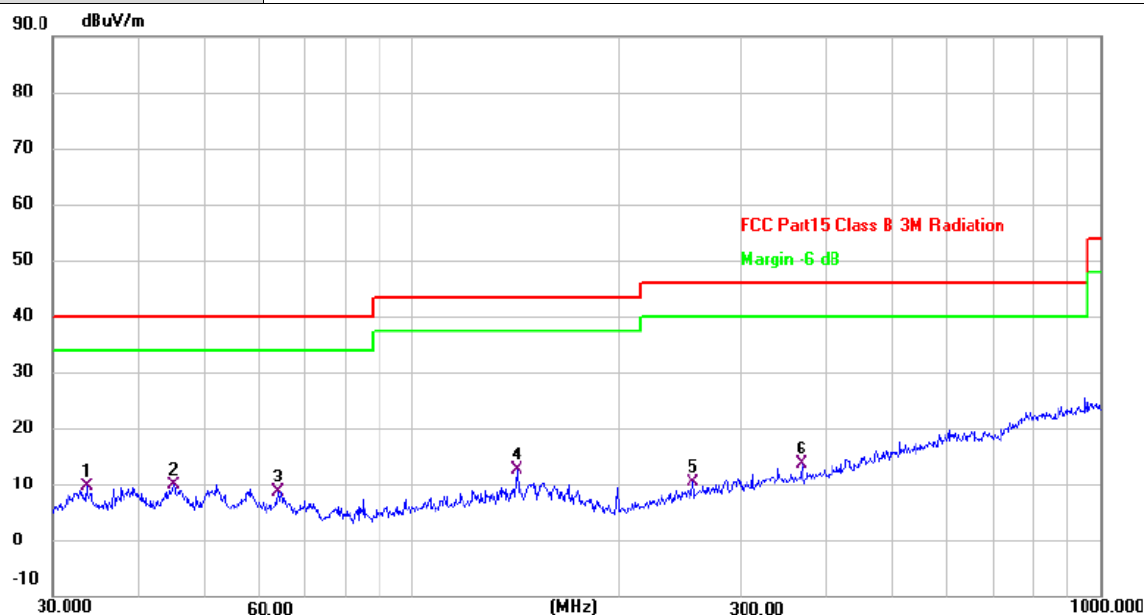
Note:

1. Testing is carried out with frequency rang 9kHz to the tenth harmonics.
2. The highest emissions are the fundamental waves.
3. All modes for required channel tested, only the worst-case reported.

9kHz-30MHz

From 9 kHz to 30 MHz: The conclusion is PASS.

Ant. Pol.	Horizontal
Test Mode:	TX GFSK Mode 2480MHz
Remark:	Only worse case is reported.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	33.5624	28.27	-18.74	9.53	40.00	-30.47	QP
2 *	44.9006	28.09	-18.26	9.83	40.00	-30.17	QP
3	63.7588	28.54	-19.83	8.71	40.00	-31.29	QP
4	141.8262	30.55	-18.04	12.51	43.50	-30.99	QP
5	255.6231	28.99	-18.54	10.45	46.00	-35.55	QP
6	368.1116	28.98	-15.47	13.51	46.00	-32.49	QP

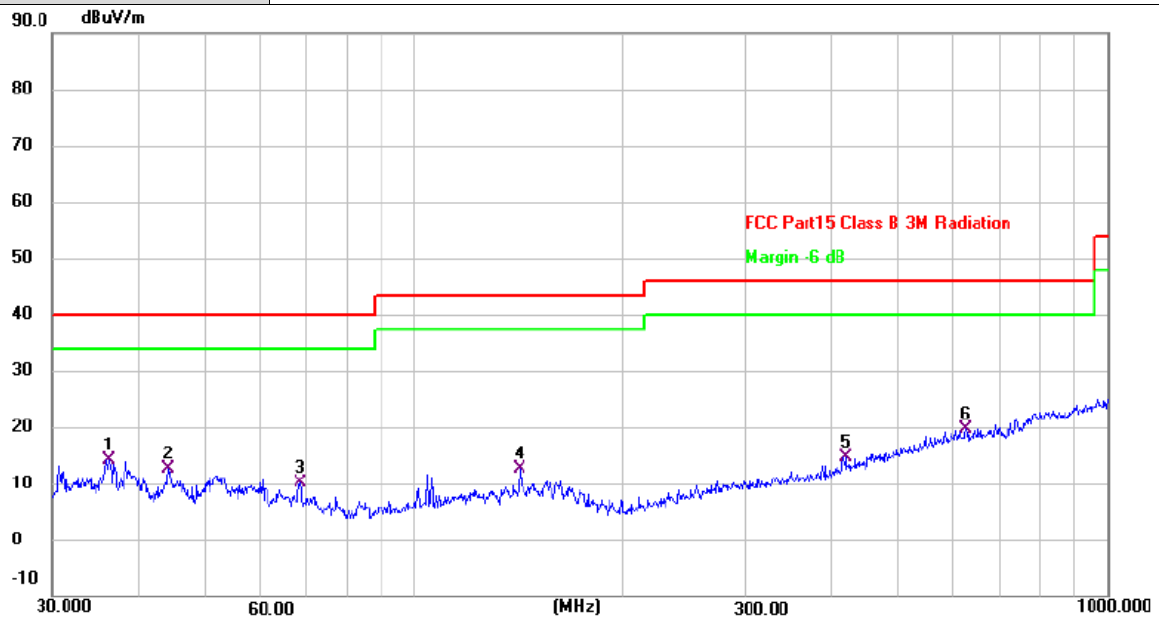
Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2. Margin value = Level -Limit value



Ant. Pol.	Vertical
Test Mode:	TX GFSK Mode 2480MHz
Remark:	Only worse case is reported.



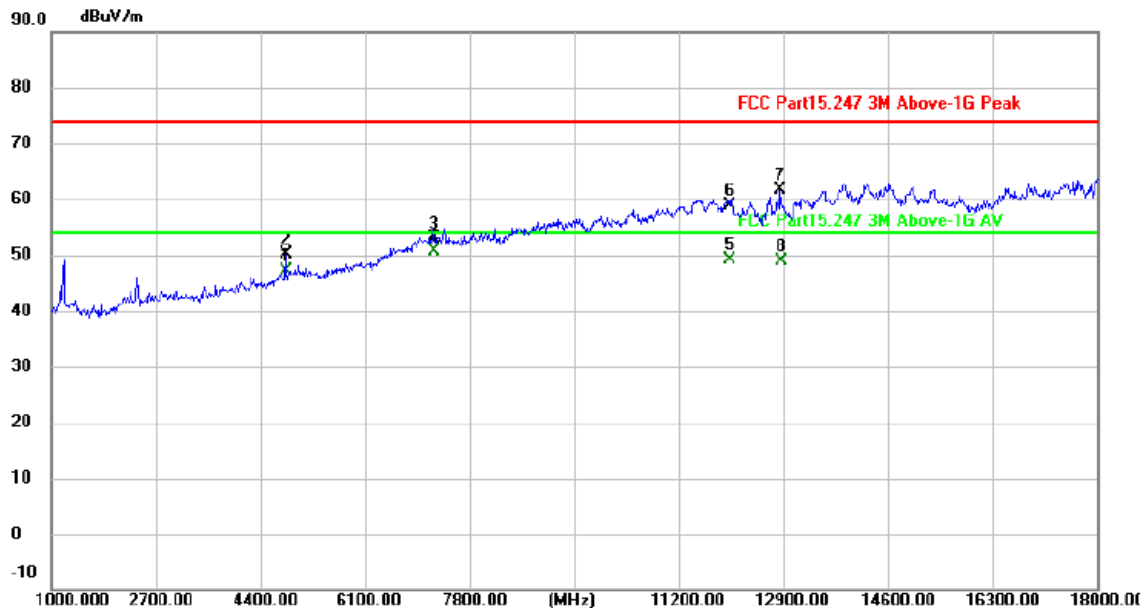
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	36.2540	32.84	-18.60	14.24	40.00	-25.76	QP
2	44.1202	30.91	-18.27	12.64	40.00	-27.36	QP
3	68.3908	30.70	-20.51	10.19	40.00	-29.81	QP
4	141.8262	30.76	-18.04	12.72	43.50	-30.78	QP
5	419.1081	28.60	-13.99	14.61	46.00	-31.39	QP
6	625.0780	28.47	-8.88	19.59	46.00	-26.41	QP

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant. Pol.	Horizontal
Test Mode:	TX GFSK Mode 2402MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4803.968	48.78	-1.57	47.21	54.00	-6.79	AVG
2	4804.000	51.78	-1.56	50.22	74.00	-23.78	peak
3	7206.000	47.01	5.88	52.89	74.00	-21.11	peak
4 *	7206.064	44.67	5.88	50.55	54.00	-3.45	AVG
5	12009.532	36.45	12.76	49.21	54.00	-4.79	AVG
6	12010.000	46.14	12.76	58.90	74.00	-15.10	peak
7	12849.000	49.55	11.99	61.54	74.00	-12.46	peak
8	12849.708	36.77	11.99	48.76	54.00	-5.24	AVG

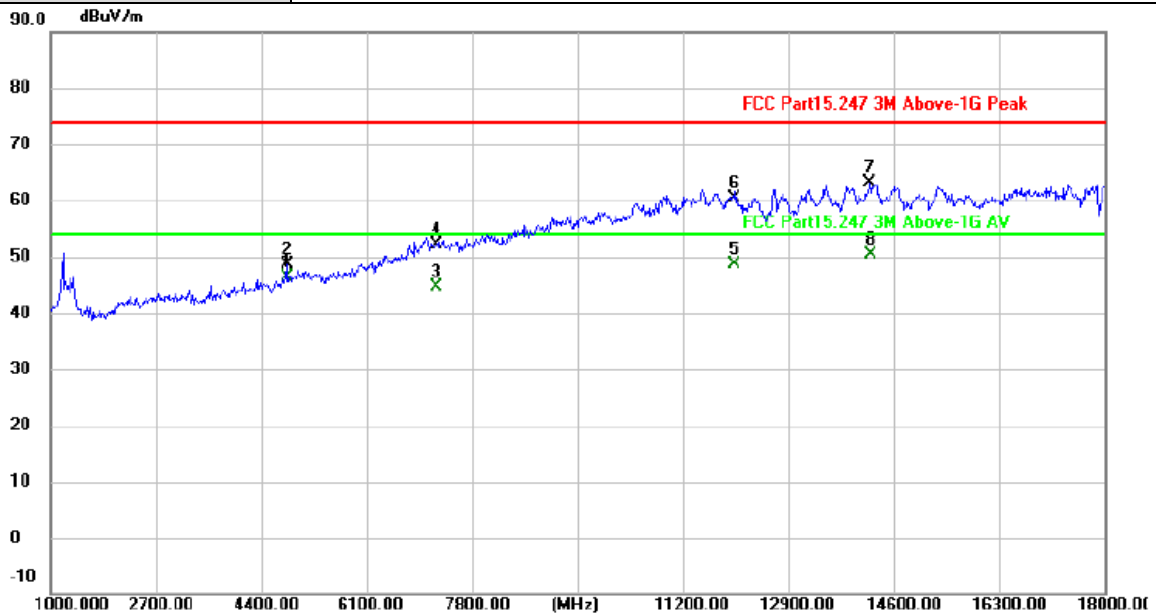
Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor

2. Margin value = Level - Limit value



Ant. Pol.	Vertical
Test Mode:	TX GFSK Mode 2402MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4803.964	48.06	-1.57	46.49	54.00	-7.51	AVG
2	4804.000	50.17	-1.56	48.61	74.00	-25.39	peak
3	7205.950	38.70	5.88	44.58	54.00	-9.42	AVG
4	7206.000	46.32	5.88	52.20	74.00	-21.80	peak
5	12008.445	35.87	12.76	48.63	54.00	-5.37	AVG
6	12010.000	47.53	12.76	60.29	74.00	-13.71	peak
7	14209.000	47.90	15.20	63.10	74.00	-10.90	peak
8 *	14210.455	35.30	15.20	50.50	54.00	-3.50	AVG

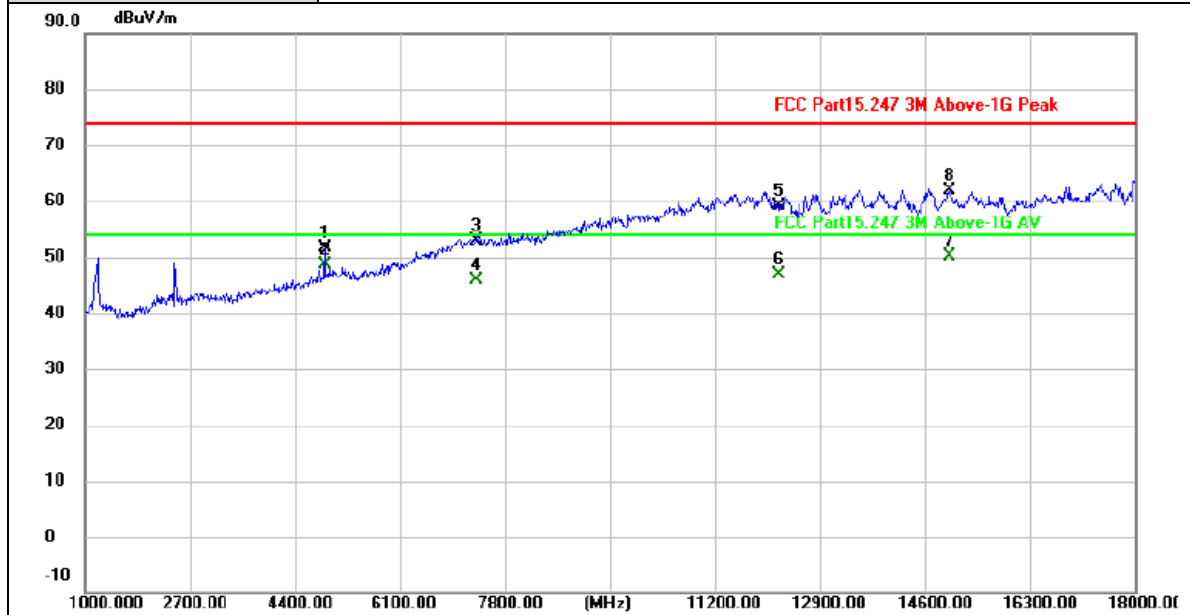
Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor

2. Margin value = Level - Limit value



Ant. Pol.	Horizontal
Test Mode:	TX GFSK Mode 2441MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4876.000	52.81	-1.29	51.52	74.00	-22.48	peak
2	4881.970	49.99	-1.27	48.72	54.00	-5.28	AVG
3	7323.000	47.07	5.74	52.81	74.00	-21.19	peak
4	7323.172	40.04	5.74	45.78	54.00	-8.22	AVG
5	12205.000	46.62	12.50	59.12	74.00	-14.88	peak
6	12205.732	34.43	12.49	46.92	54.00	-7.08	AVG
7 *	14990.410	34.28	15.76	50.04	54.00	-3.96	AVG
8	14991.000	46.21	15.75	61.96	74.00	-12.04	peak

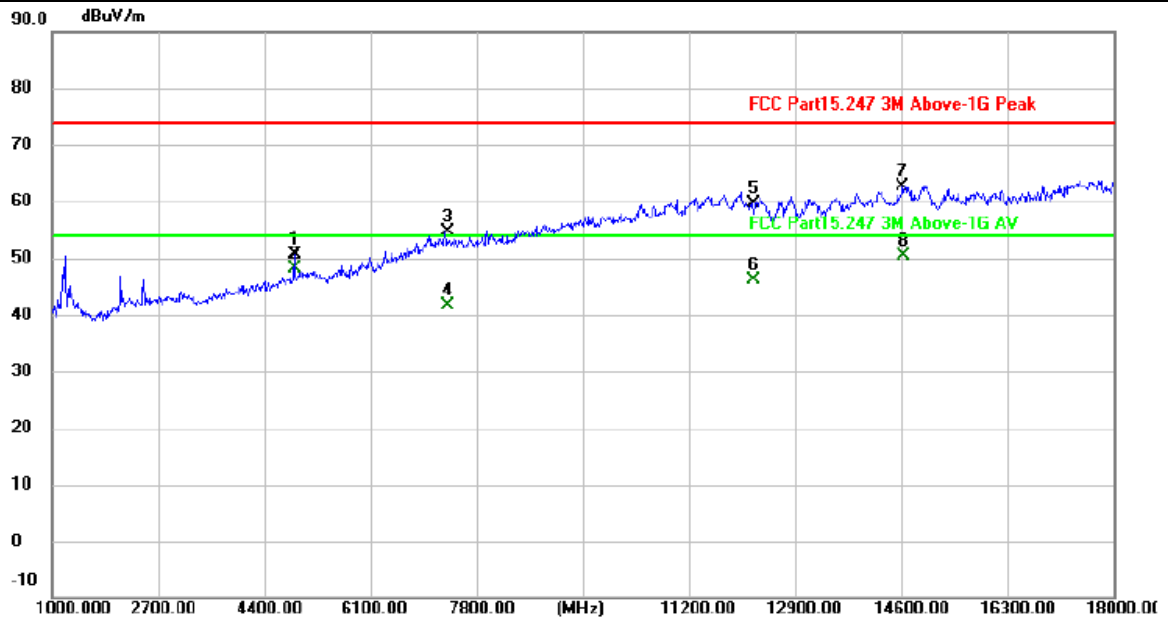
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. Pol.	Vertical
Test Mode:	TX GFSK Mode 2441MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4876.000	51.80	-1.29	50.51	74.00	-23.49	peak
2	4881.886	49.52	-1.27	48.25	54.00	-5.75	AVG
3	7323.000	48.94	5.74	54.68	74.00	-19.32	peak
4	7323.155	35.92	5.74	41.66	54.00	-12.34	AVG
5	12205.000	47.04	12.50	59.54	74.00	-14.46	peak
6	12206.020	33.74	12.49	46.23	54.00	-7.77	AVG
7	14617.000	46.42	16.30	62.72	74.00	-11.28	peak
8 *	14617.922	34.15	16.30	50.45	54.00	-3.55	AVG

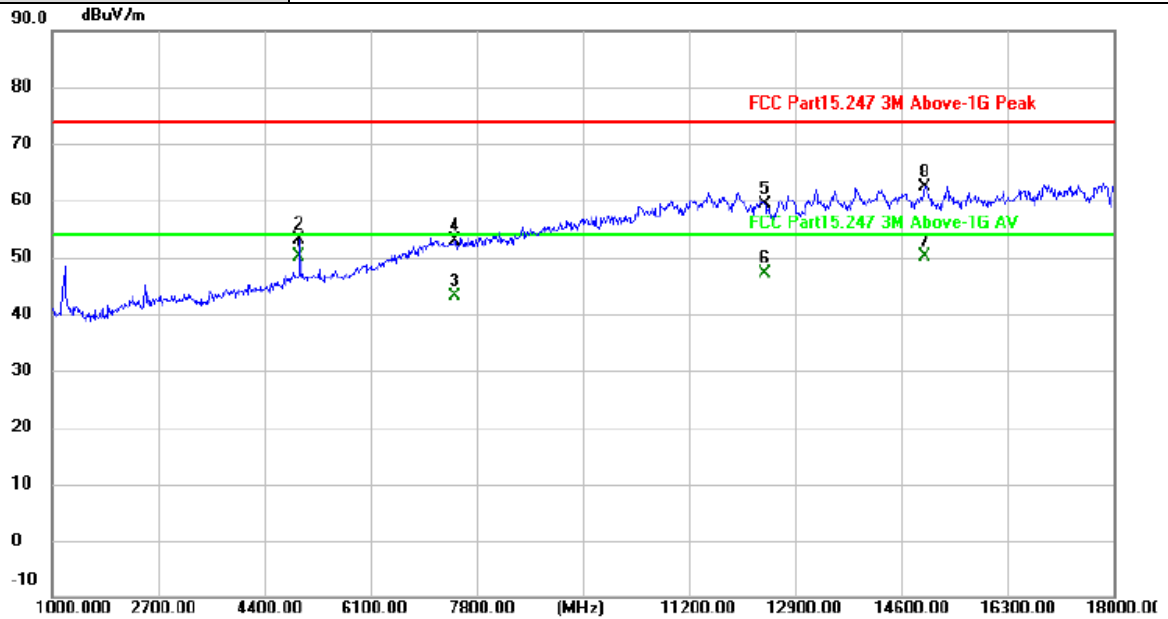
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. Pol.	Horizontal
Test Mode:	TX GFSK Mode 2480MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4959.948	51.26	-1.04	50.22	54.00	-3.78	AVG
2	4960.000	54.14	-1.04	53.10	74.00	-20.90	peak
3	7439.965	37.60	5.62	43.22	54.00	-10.78	AVG
4	7440.000	47.38	5.62	53.00	74.00	-21.00	peak
5	12400.000	47.45	11.87	59.32	74.00	-14.68	peak
6	12400.282	35.34	11.87	47.21	54.00	-6.79	AVG
7	14973.526	34.27	15.79	50.06	54.00	-3.94	AVG
8	14974.000	46.65	15.79	62.44	74.00	-11.56	peak

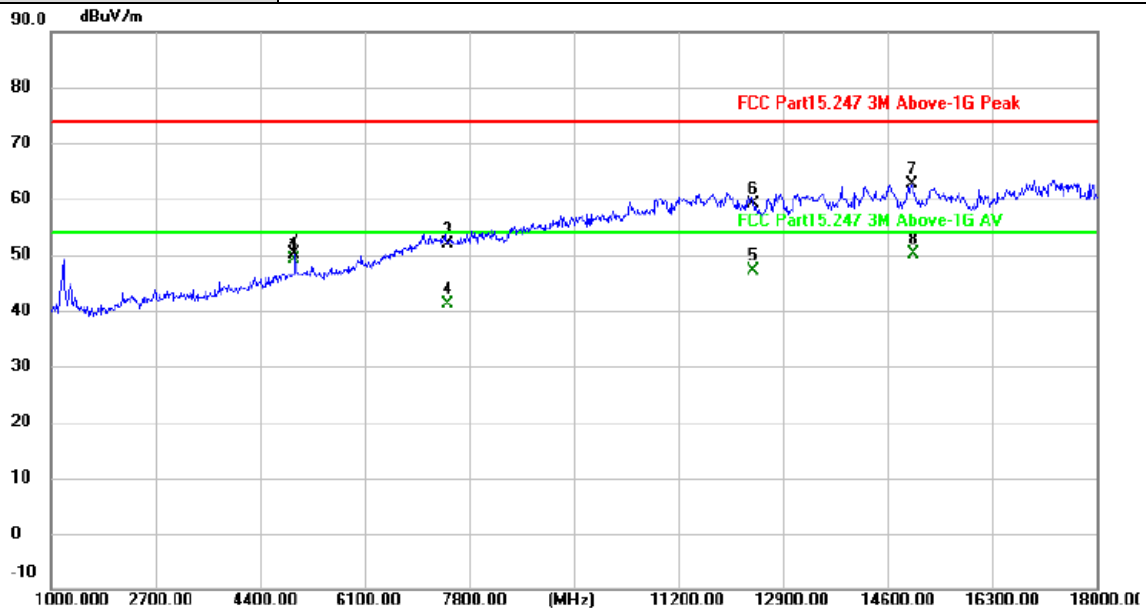
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. Pol.	Vertical
Test Mode:	TX GFSK Mode 2480MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



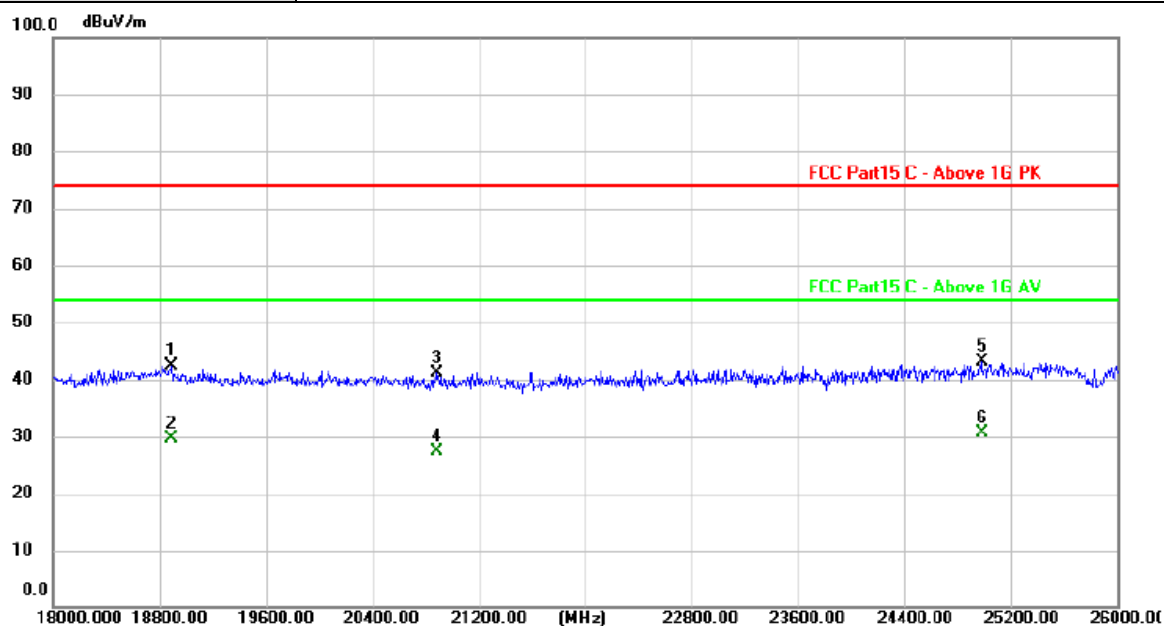
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4959.966	50.23	-1.04	49.19	54.00	-4.81	AVG
2	4960.000	51.26	-1.04	50.22	74.00	-23.78	peak
3	7440.000	46.16	5.62	51.78	74.00	-22.22	peak
4	7440.035	35.48	5.62	41.10	54.00	-12.90	AVG
5	12399.975	35.25	11.87	47.12	54.00	-6.88	AVG
6	12400.000	47.34	11.87	59.21	74.00	-14.79	peak
7	14991.000	46.84	15.75	62.59	74.00	-11.41	peak
8 *	14992.375	34.37	15.75	50.12	54.00	-3.88	AVG

Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor

2. Margin value = Level - Limit value

Ant. Pol.	Horizontal
Test Mode:	TX GFSK Mode 2402MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

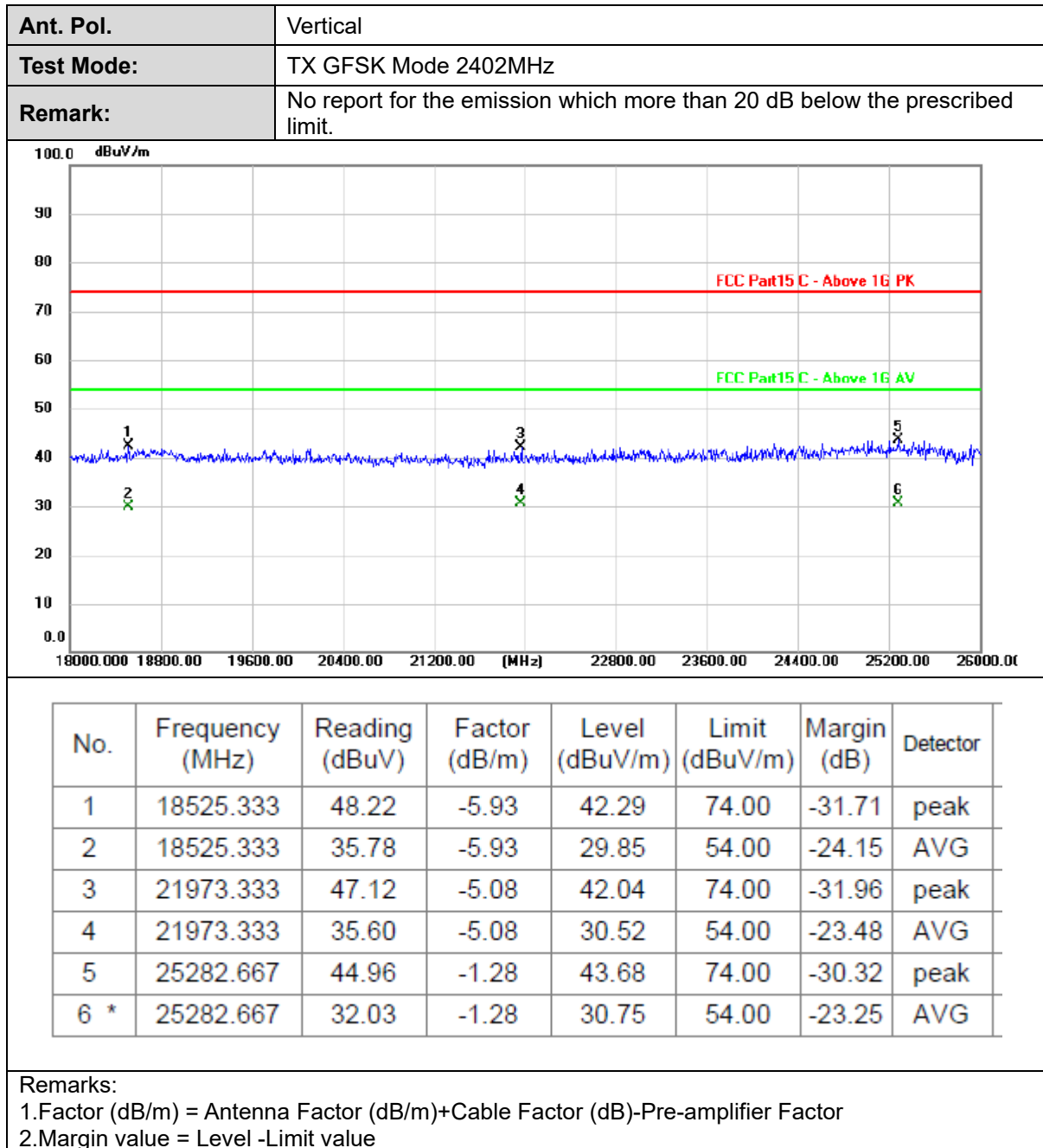


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	18890.667	48.08	-5.60	42.48	74.00	-31.52	peak
2	18890.667	35.12	-5.60	29.52	54.00	-24.48	AVG
3	20882.667	46.67	-5.65	41.02	74.00	-32.98	peak
4	20882.667	33.06	-5.65	27.41	54.00	-26.59	AVG
5	24976.000	44.52	-1.27	43.25	74.00	-30.75	peak
6 *	24976.000	31.95	-1.27	30.68	54.00	-23.32	AVG

Remarks:

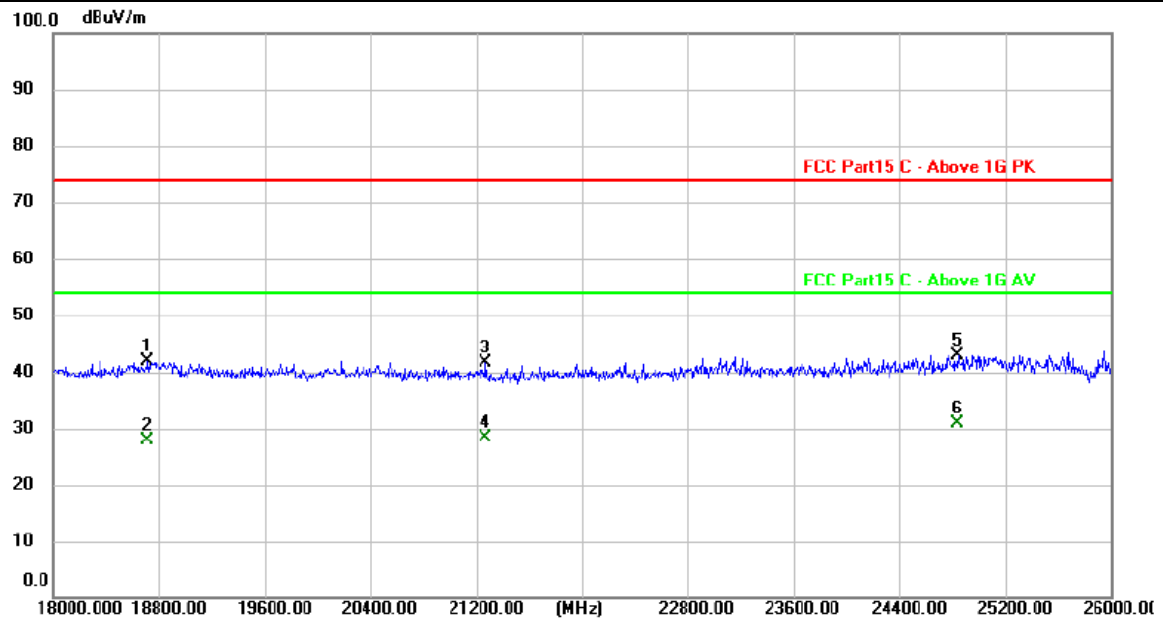
1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor

2. Margin value = Level - Limit value





Ant. Pol.	Horizontal
Test Mode:	TX GFSK Mode 2441MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	18712.000	47.97	-6.04	41.93	74.00	-32.07	peak
2	18712.000	33.89	-6.04	27.85	54.00	-26.15	AVG
3	21277.333	47.22	-5.71	41.51	74.00	-32.49	peak
4	21277.333	33.98	-5.71	28.27	54.00	-25.73	AVG
5	24853.333	44.41	-1.46	42.95	74.00	-31.05	peak
6 *	24853.333	32.28	-1.46	30.82	54.00	-23.18	AVG

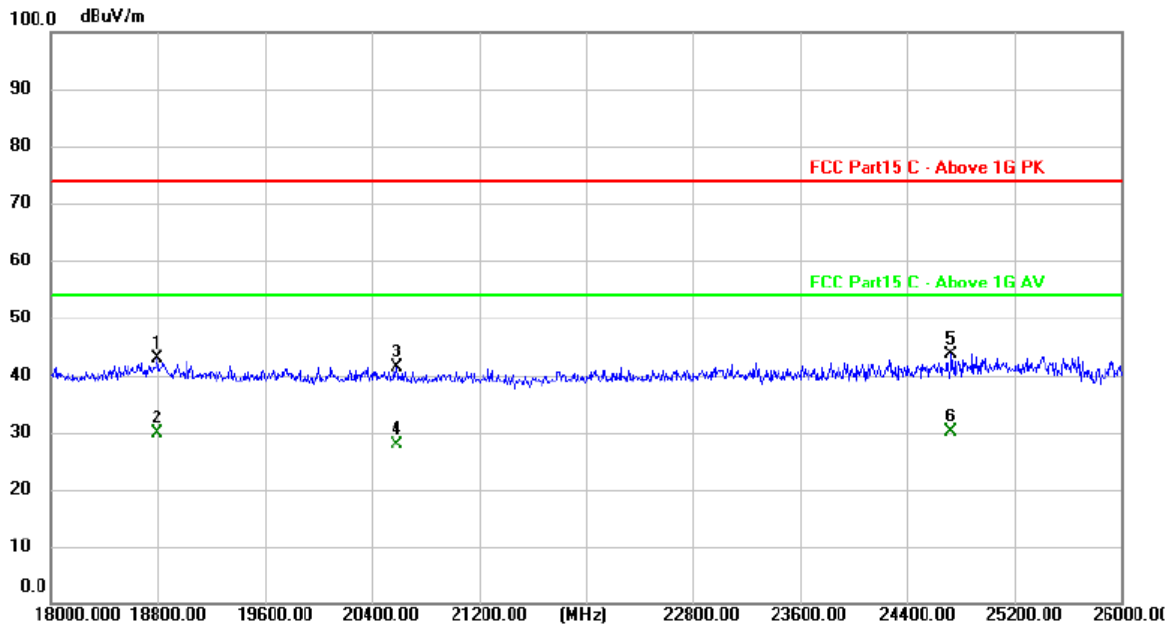
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. Pol.	Vertical
Test Mode:	TX GFSK Mode 2441MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	18794.667	48.93	-6.12	42.81	74.00	-31.19	peak
2	18794.667	35.97	-6.12	29.85	54.00	-24.15	AVG
3	20584.000	47.03	-5.60	41.43	74.00	-32.57	peak
4	20584.000	33.45	-5.60	27.85	54.00	-26.15	AVG
5	24728.000	45.35	-1.64	43.71	74.00	-30.29	peak
6 *	24728.000	31.84	-1.64	30.20	54.00	-23.80	AVG

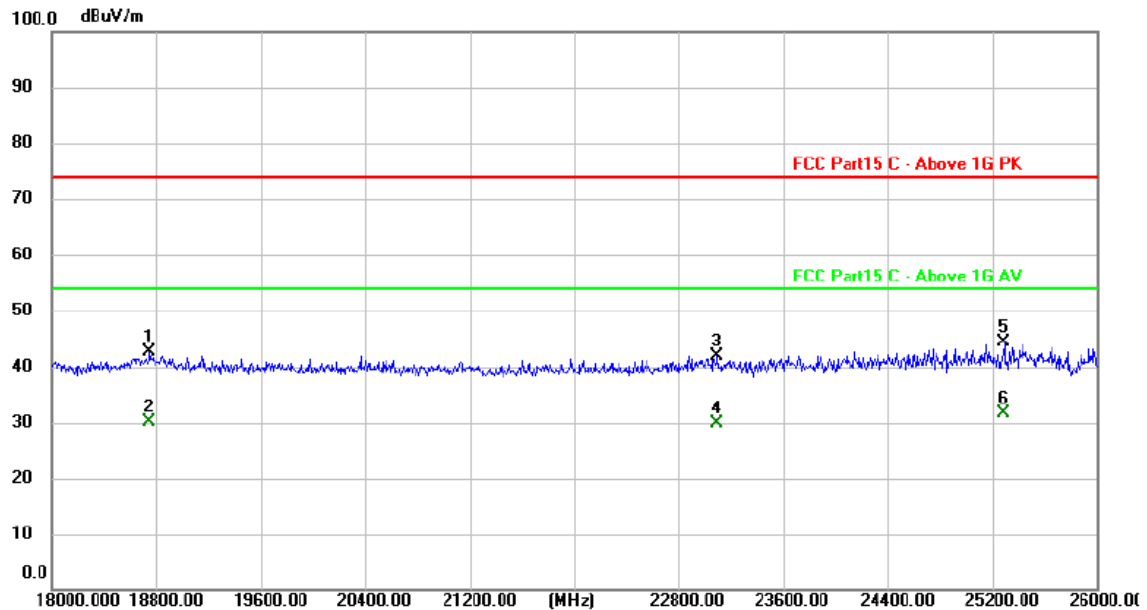
Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor

2. Margin value = Level - Limit value



Ant. Pol.	Horizontal
Test Mode:	TX GFSK Mode 2480MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	18744.000	47.96	-5.22	42.74	74.00	-31.26	peak
2	18744.000	35.47	-5.22	30.25	54.00	-23.75	AVG
3	23098.667	45.55	-3.55	42.00	74.00	-32.00	peak
4	23098.667	33.40	-3.55	29.85	54.00	-24.15	AVG
5	25301.333	45.56	-1.28	44.28	74.00	-29.72	peak
6 *	25301.333	32.80	-1.28	31.52	54.00	-22.48	AVG

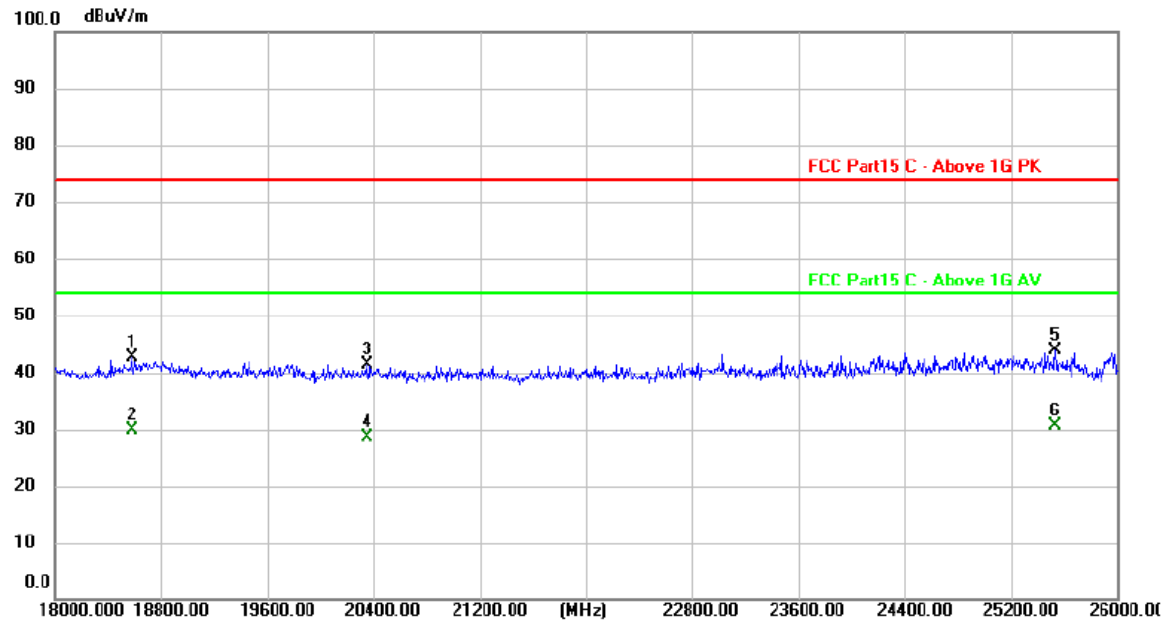
Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor

2. Margin value = Level - Limit value



Ant. Pol.	Vertical
Test Mode:	TX GFSK Mode 2480MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	18576.000	48.08	-5.51	42.57	74.00	-31.43	peak
2	18576.000	35.36	-5.51	29.85	54.00	-24.15	AVG
3	20352.000	47.25	-5.75	41.50	74.00	-32.50	peak
4	20352.000	34.50	-5.75	28.75	54.00	-25.25	AVG
5	25536.000	45.09	-1.23	43.86	74.00	-30.14	peak
6 *	25536.000	31.75	-1.23	30.52	54.00	-23.48	AVG

Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor

2. Margin value = Level - Limit value

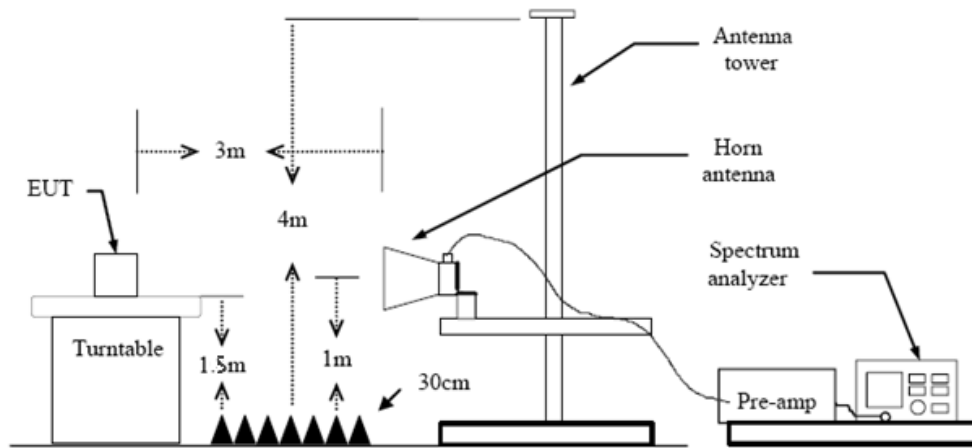
3.3. Band Edge Emissions (Radiated)

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d) / RSS-247 6.6

Restricted Frequency Band (MHz)	(dBμV/m) (at 3m)	
	Peak	Average
2310 ~ 2390	74	54
2483.5 ~ 2500	74	54

Test Configuration



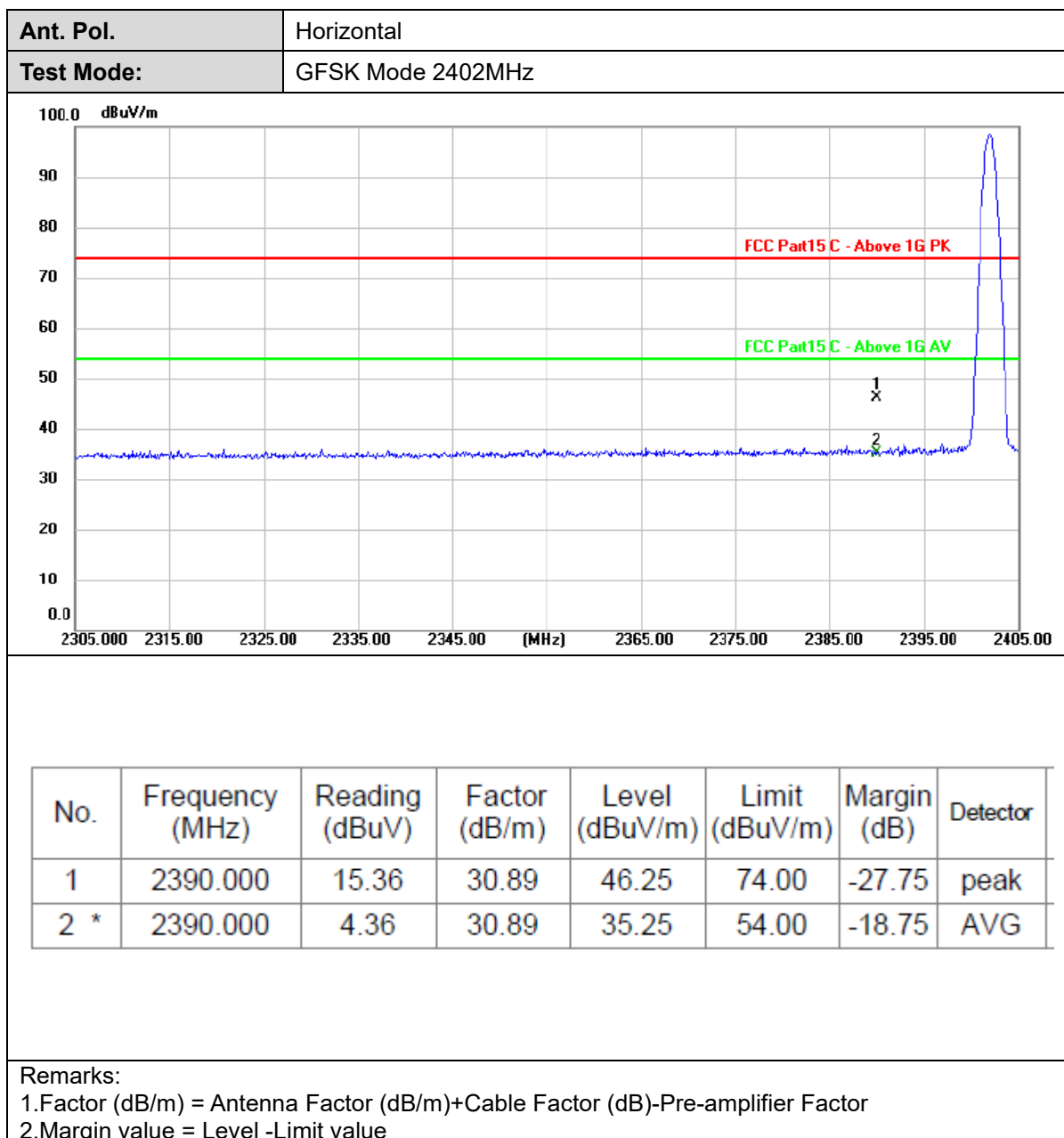
Test Procedure

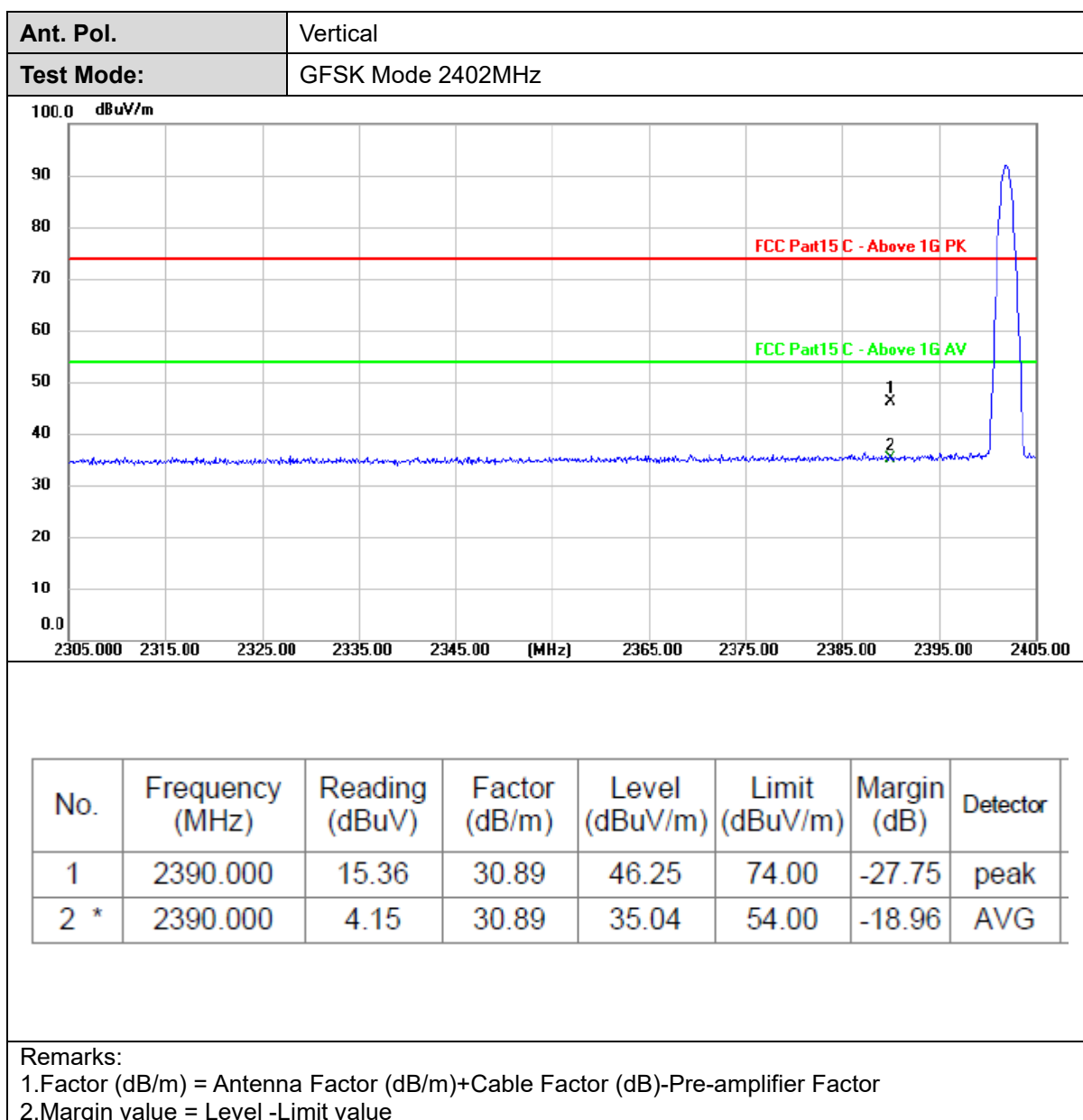
1. The EUT was setup and tested according to ANSI C63.10 requirements.
2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10 on radiated measurement.
5. The receiver set as follow:
RBW=1MHz, VBW=3MHz Peak detector for Peak value.
RBW=1MHz, VBW see note 1 with Peak Detector for Average Value.

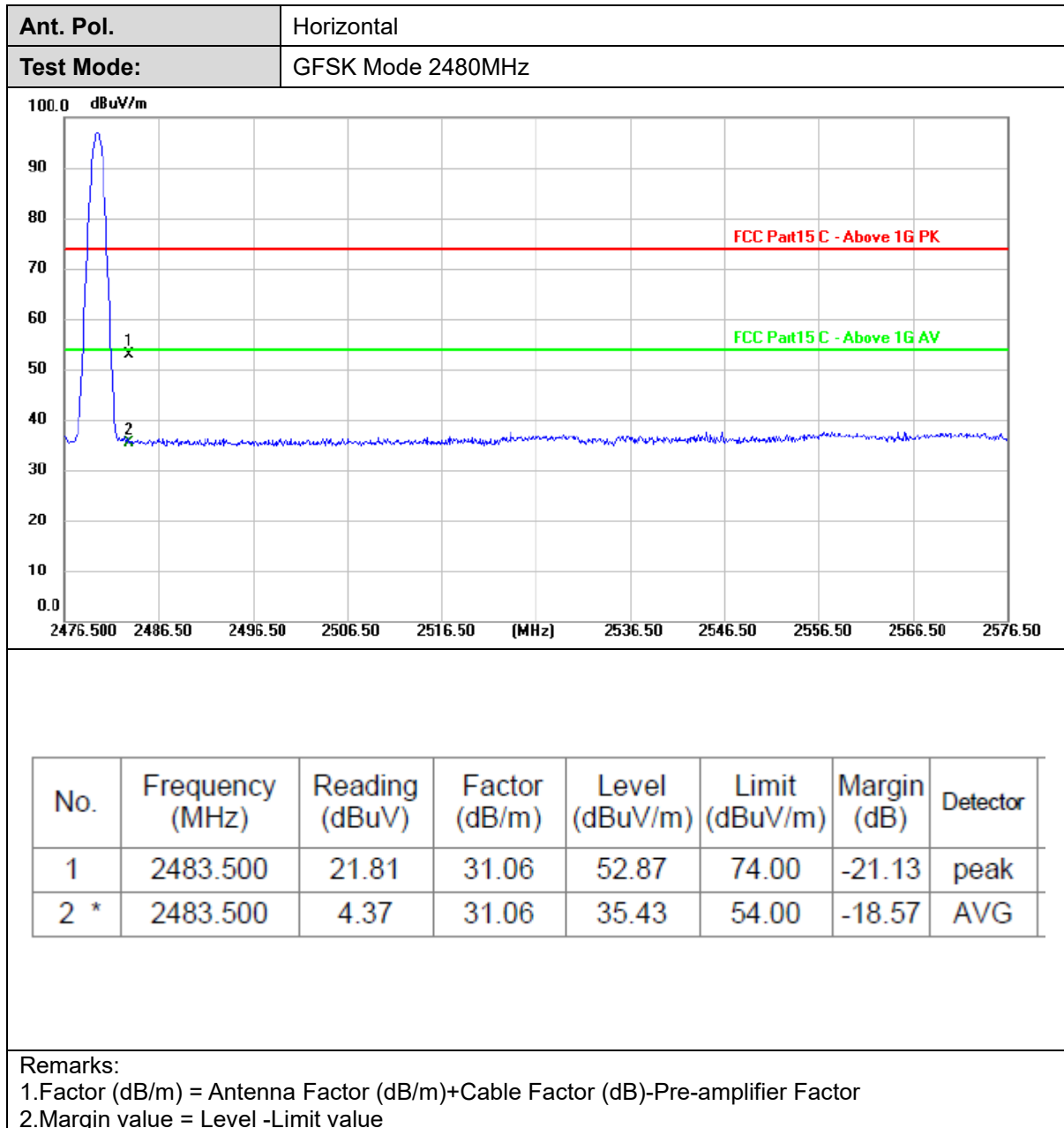
Note 1: For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 3.10 Duty Cycle.

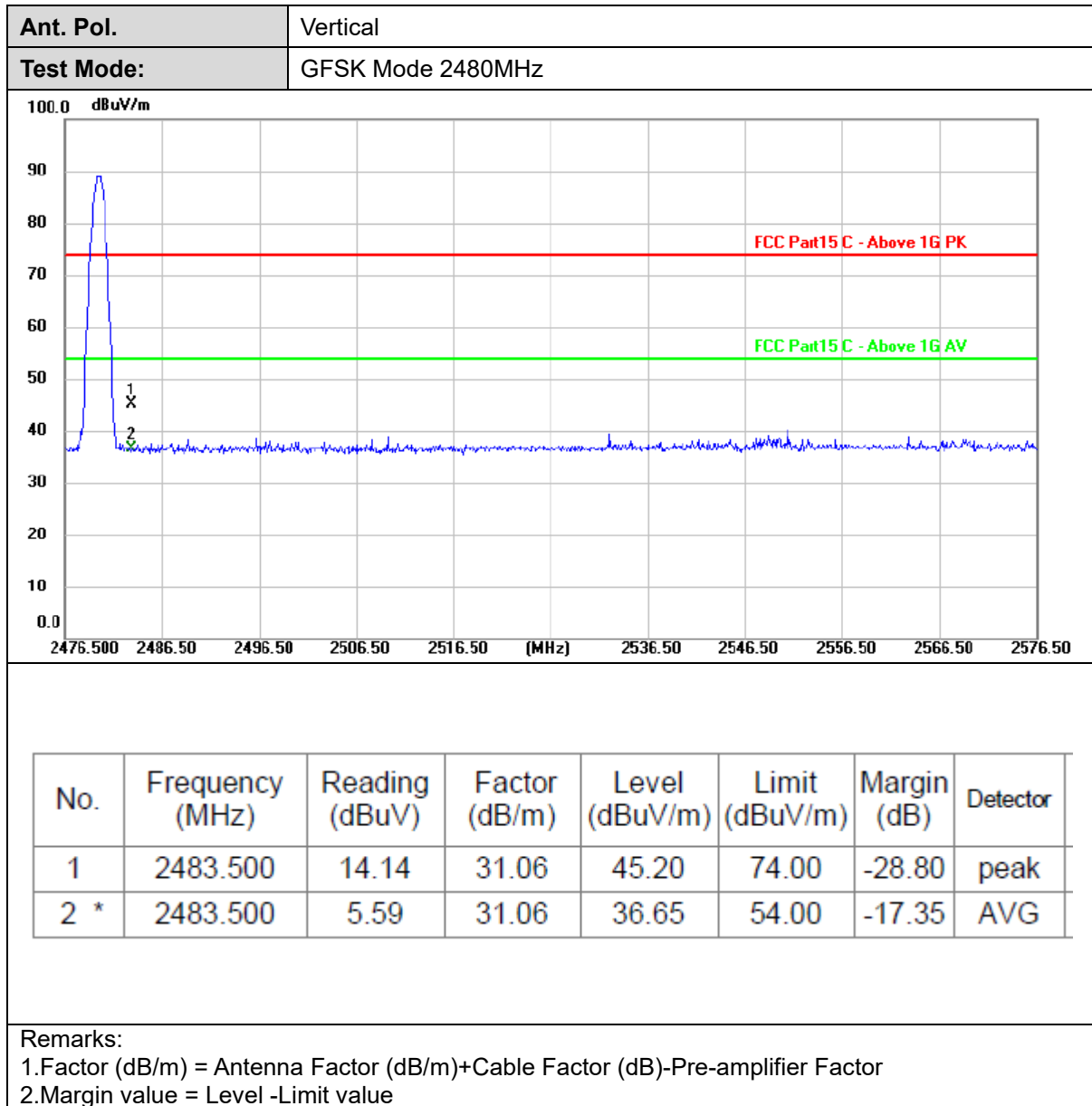
Test Mode

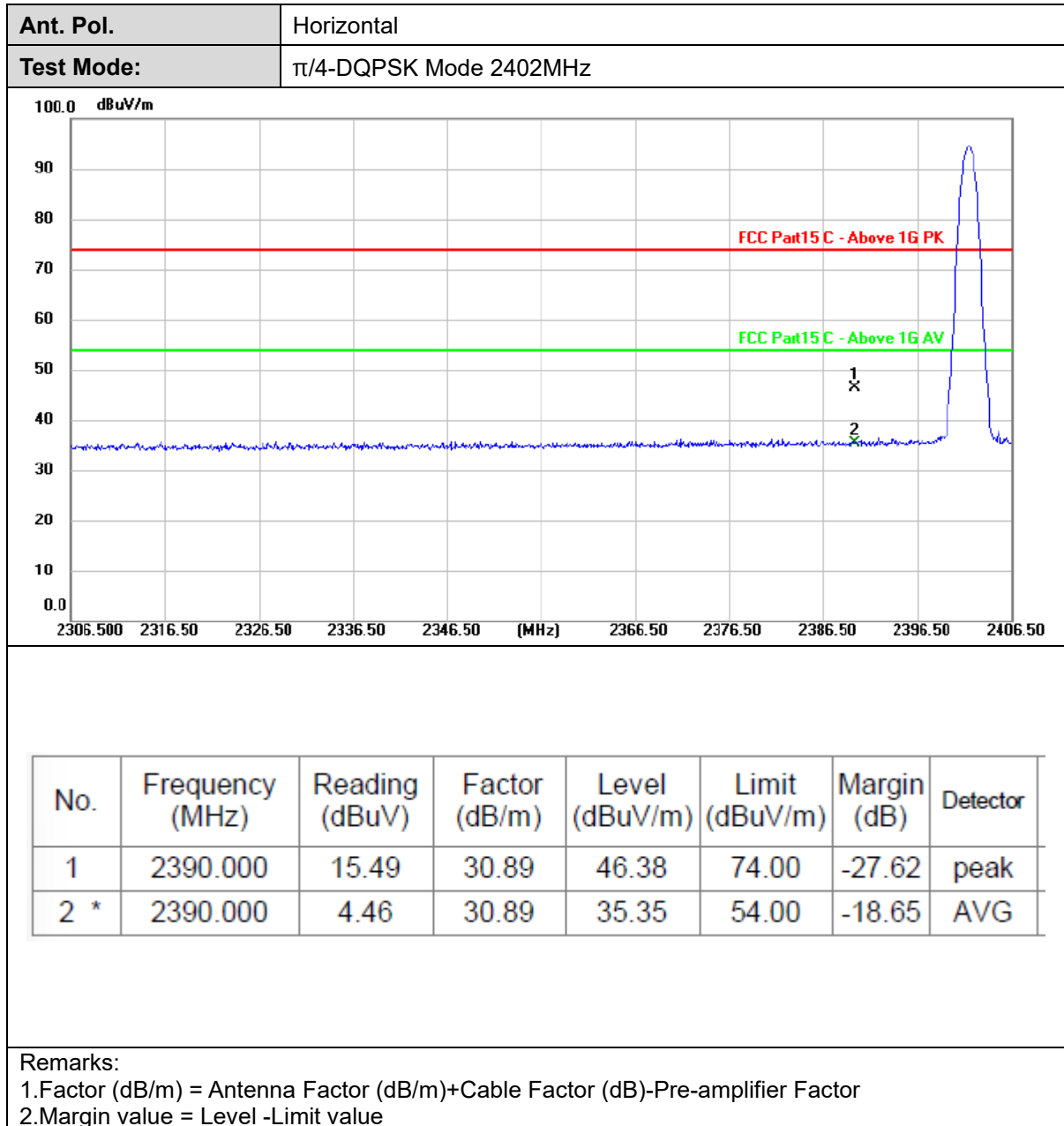
Please refer to the clause 2.4.

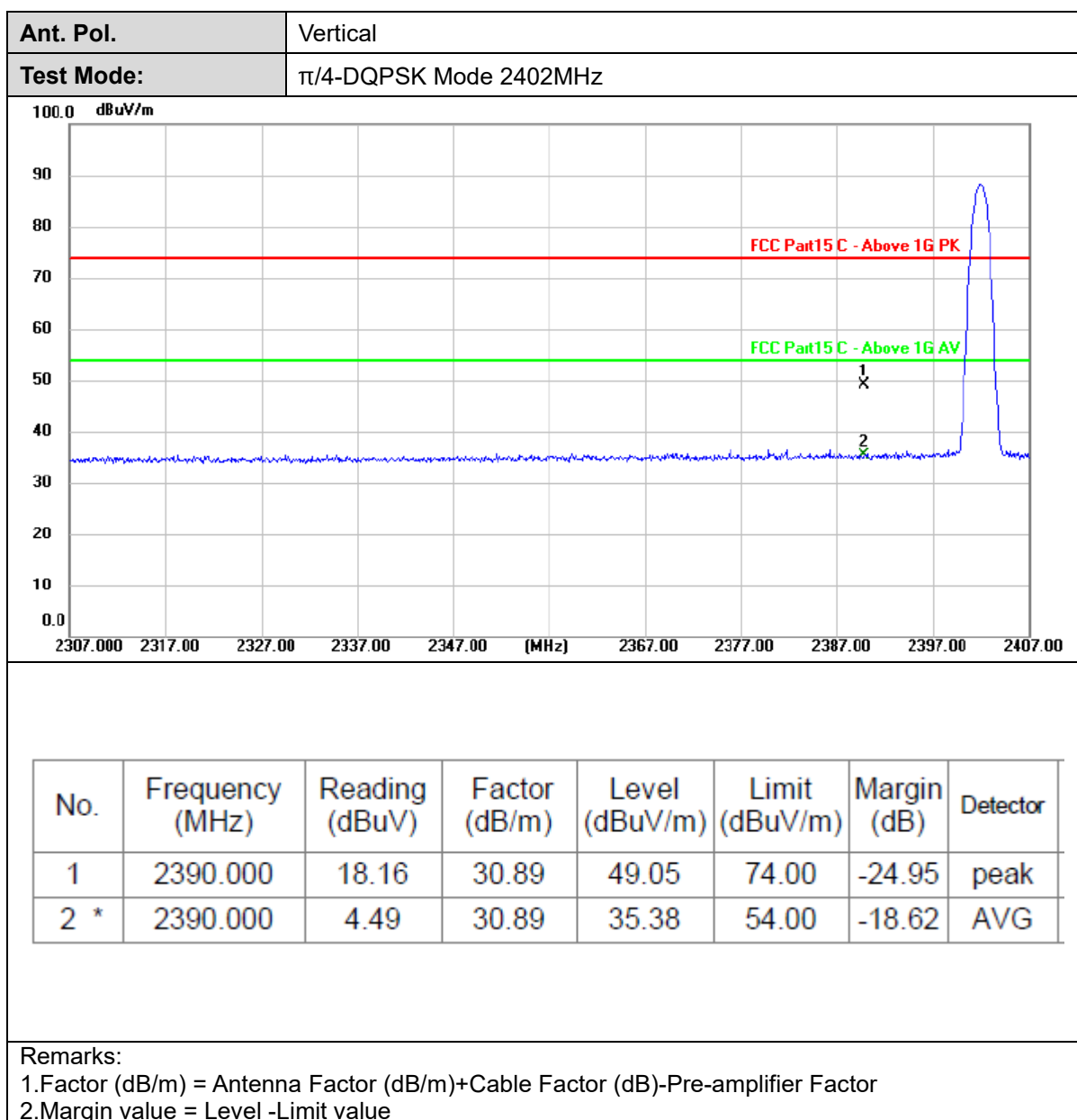
**Test Result**

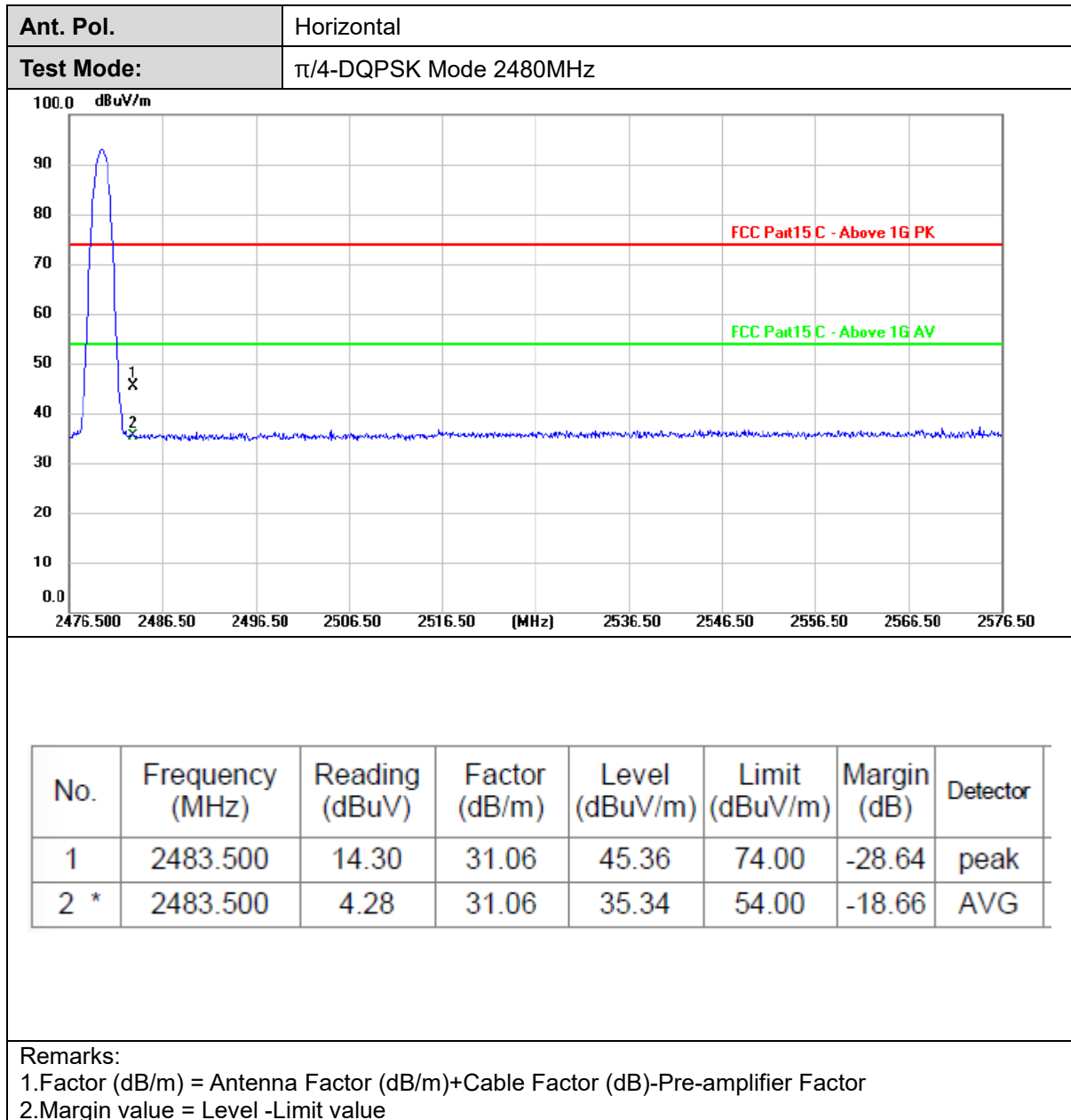


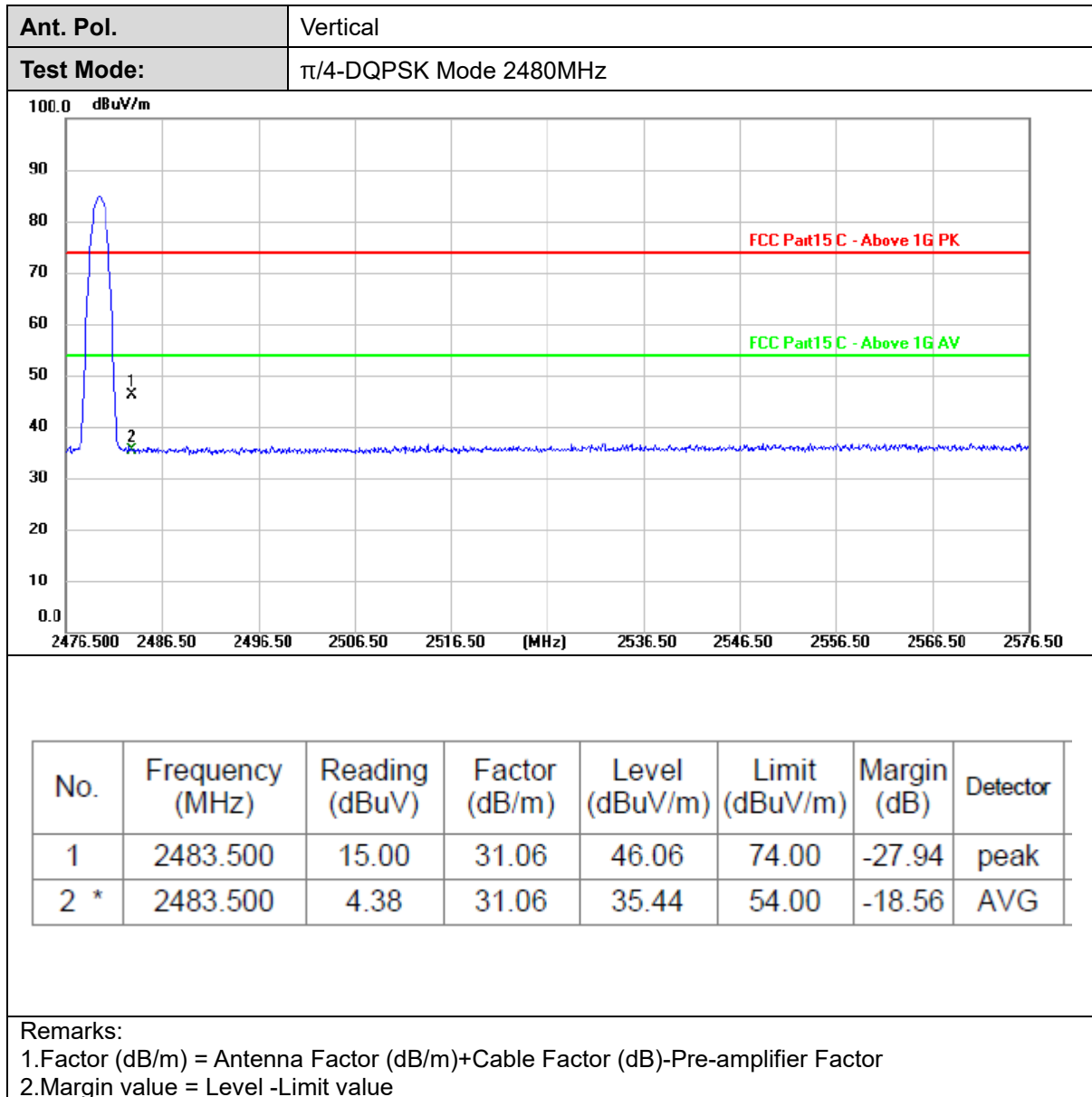


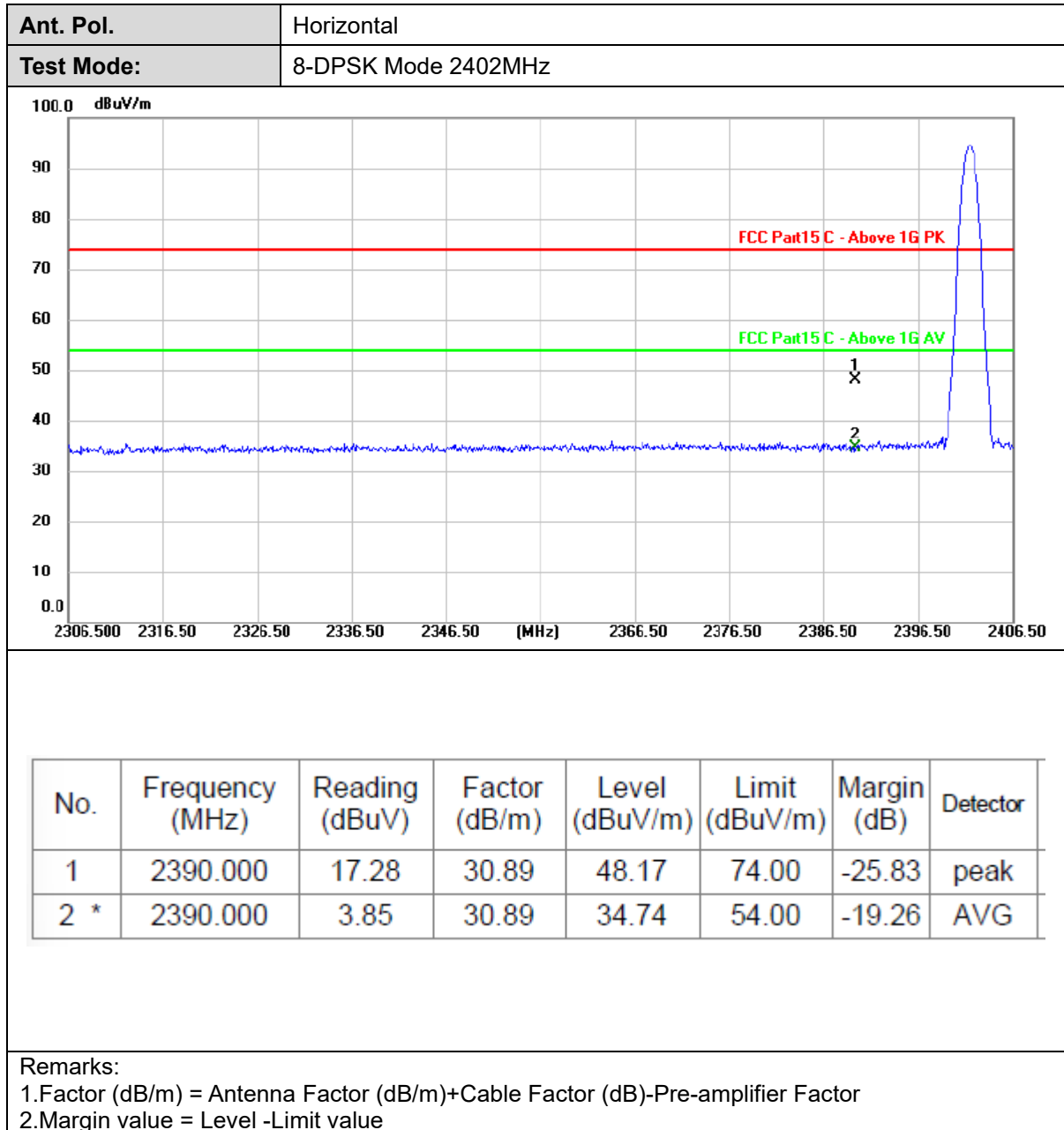


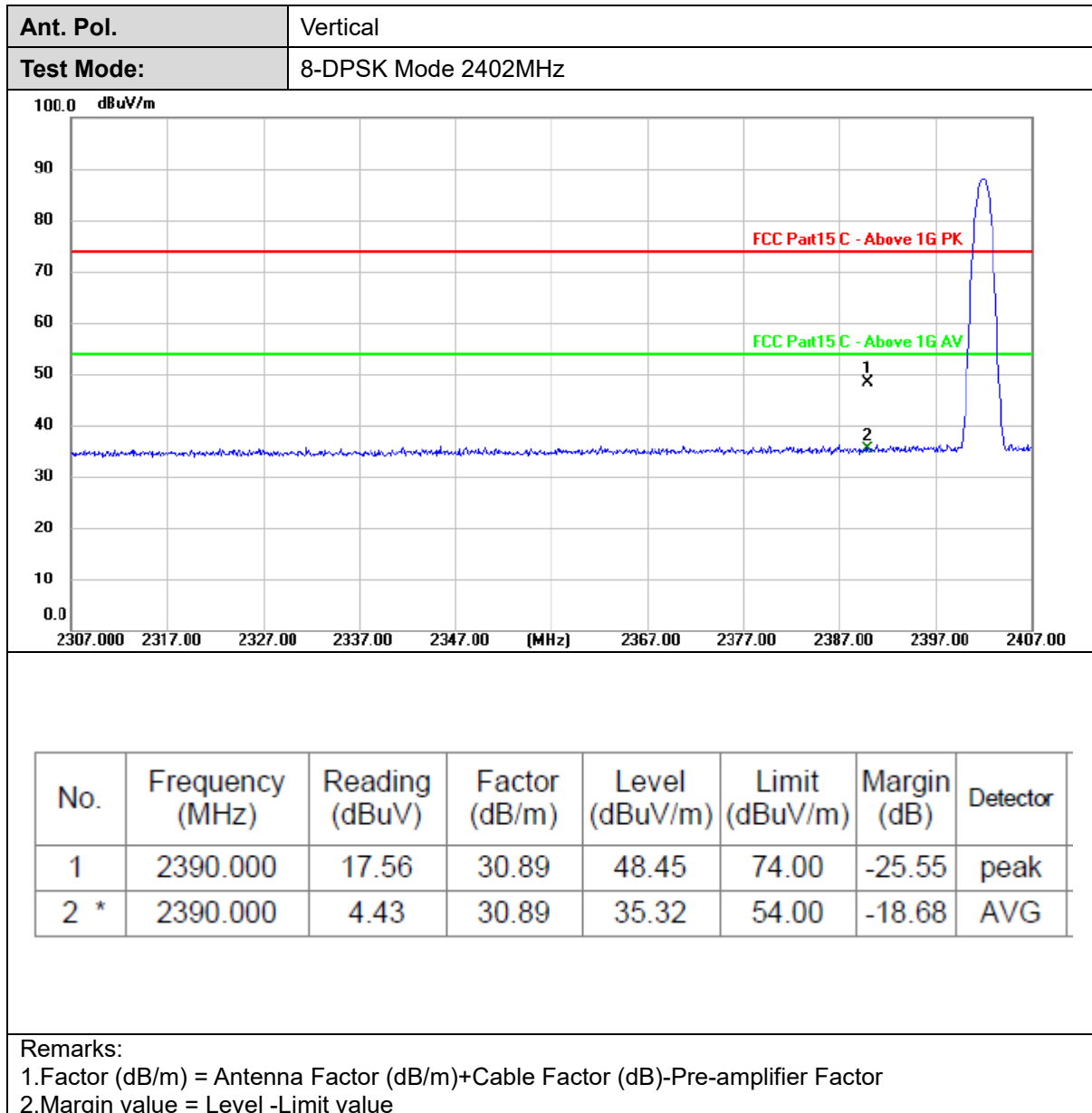


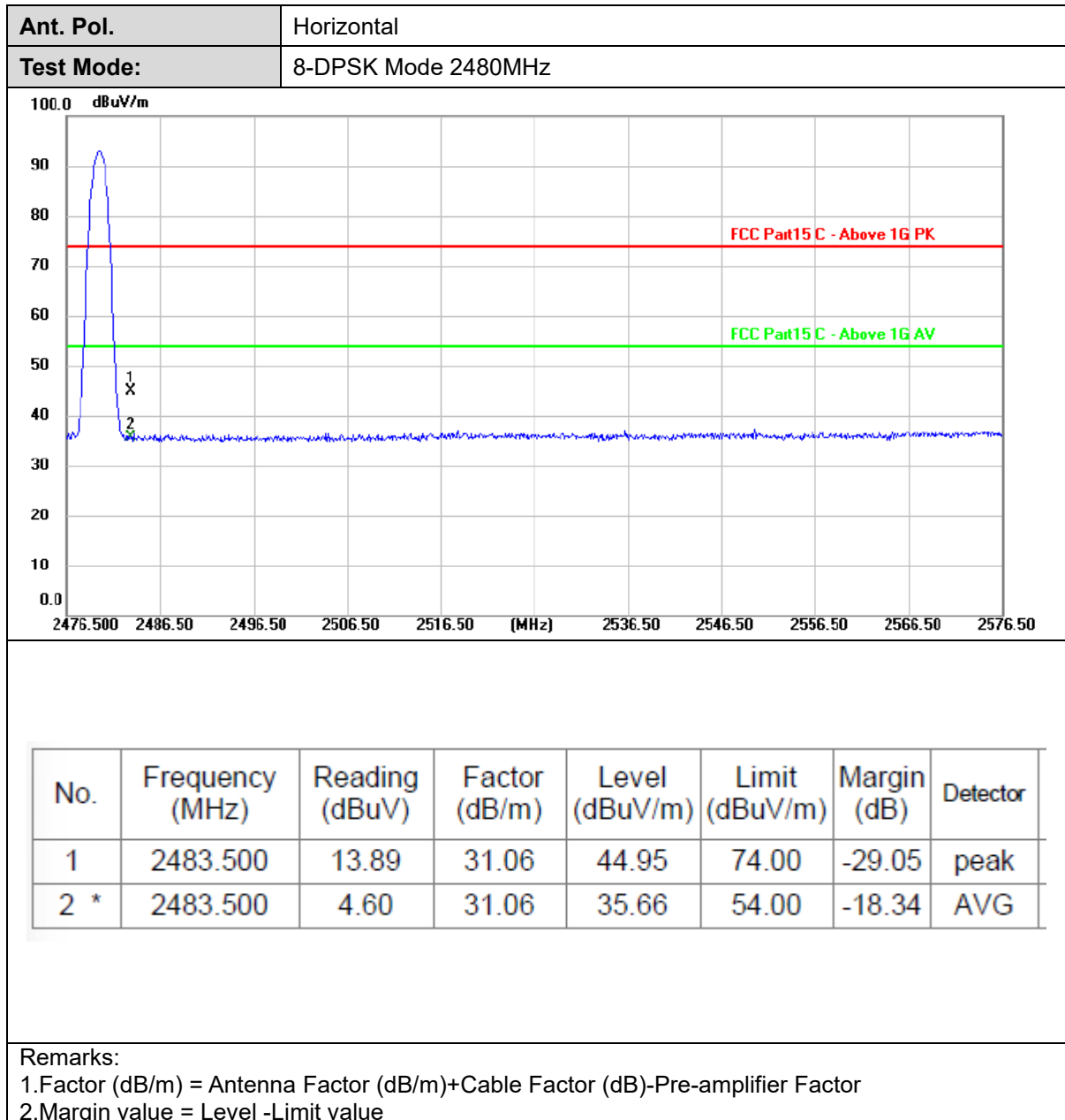


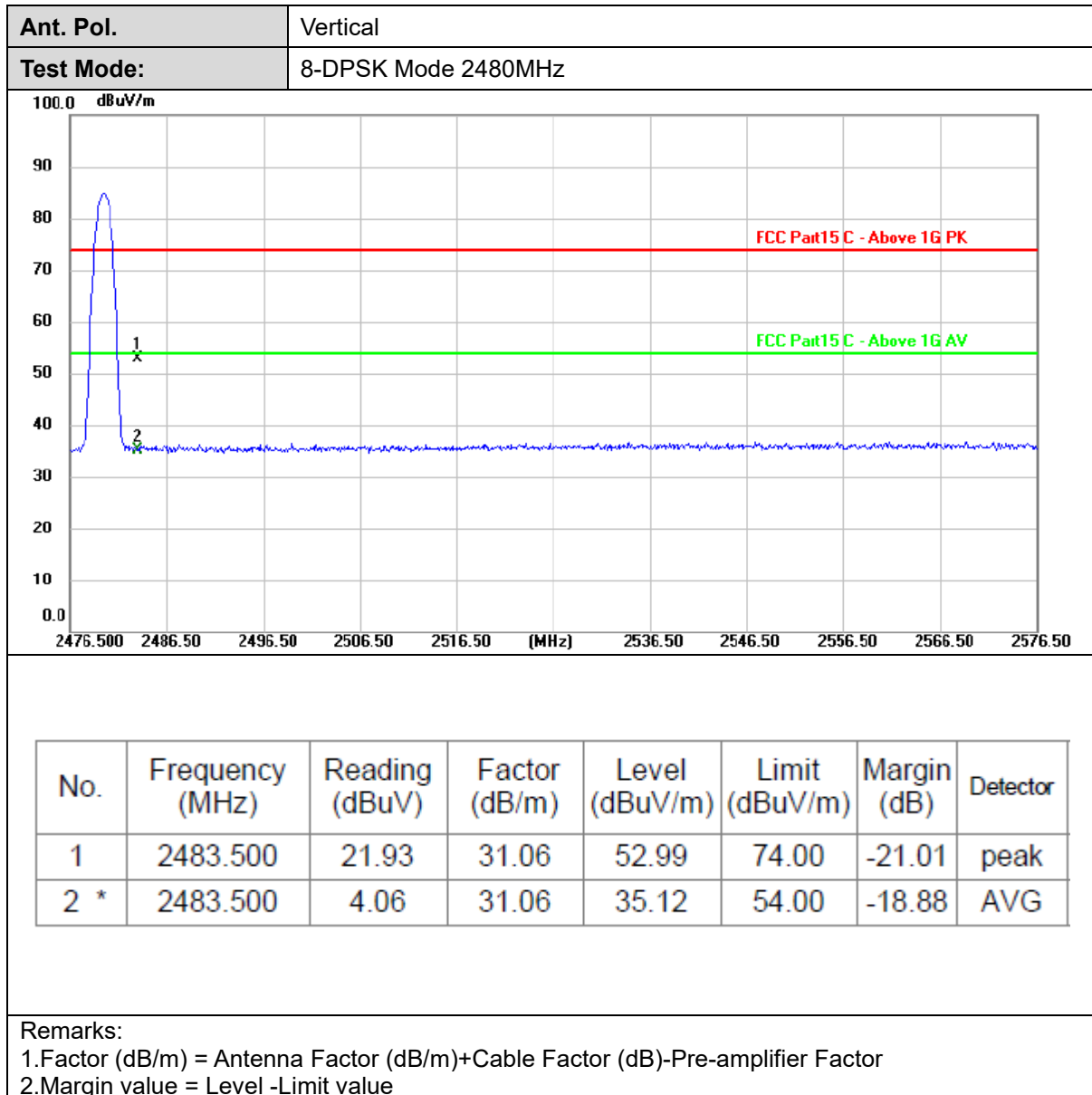














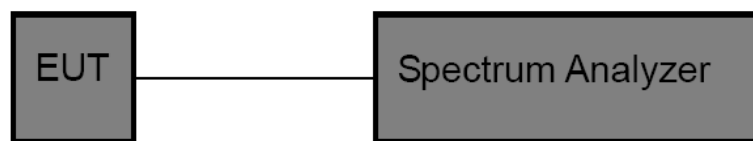
3.4. Band Edge and Spurious Emissions (Conducted)

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d) / RSS-247 6.6

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Test Configuration



Test Procedure

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
RBW = 100 kHz, VBW ≥ RBW, scan up through 10th harmonic.
Sweep = auto, Detector function = peak, Trace = max hold.
4. Measure and record the results in the test report.

Test Mode

Please refer to the clause 2.4.

Test Result

Band Edge Conducted Test

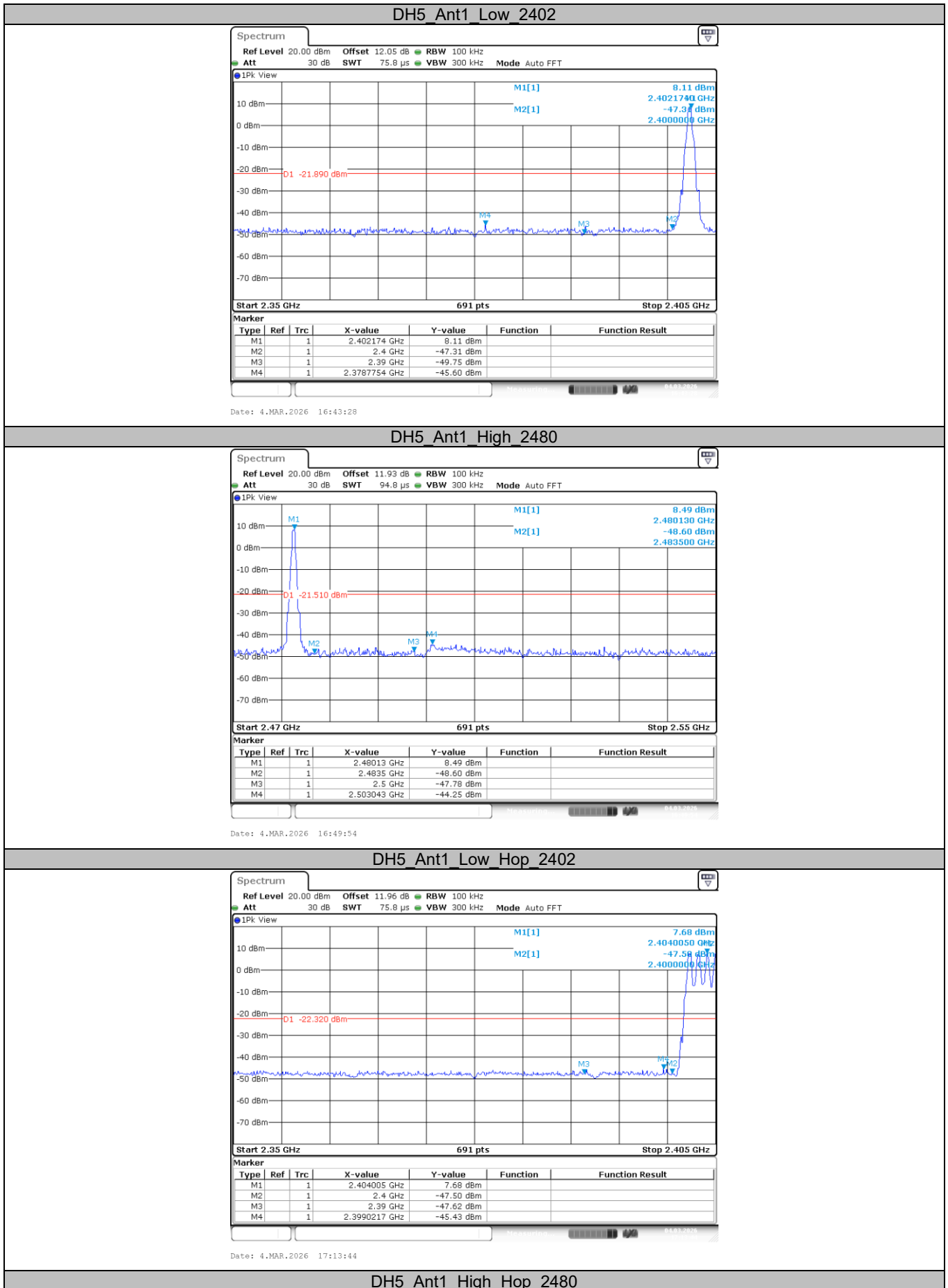
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	8.11	-45.6	≤-21.89	PASS
		High	2480	8.49	-44.25	≤-21.51	PASS
		Low Hop	2402	7.68	-45.43	≤-22.32	PASS
		High Hop	2480	7.81	-44.31	≤-22.19	PASS
2DH5	Ant1	Low	2402	8.38	-45.63	≤-21.62	PASS
		High	2480	8.55	-44.98	≤-21.45	PASS
		Low Hop	2402	7.05	-45.22	≤-22.95	PASS
		High Hop	2480	8.35	-43.42	≤-21.65	PASS
3DH5	Ant1	Low	2402	8.27	-45.03	≤-21.73	PASS
		High	2480	7.49	-43.95	≤-22.51	PASS
		Low Hop	2402	8.37	-44.47	≤-21.63	PASS
		High Hop	2480	8.43	-43.44	≤-21.57	PASS

**Conducted Spurious Emissions Test**

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	8.39	8.39	---	PASS
			30~1000	8.39	-47.67	≤ -21.61	PASS
			1000~26500	8.39	-31.15	≤ -21.61	PASS
		2441	Reference	8.38	8.38	---	PASS
			30~1000	8.38	-47.79	≤ -21.62	PASS
			1000~26500	8.38	-30.42	≤ -21.62	PASS
		2480	Reference	8.56	8.56	---	PASS
			30~1000	8.56	-47.95	≤ -21.44	PASS
			1000~26500	8.56	-29.75	≤ -21.44	PASS
2DH5	Ant1	2402	Reference	8.40	8.40	---	PASS
			30~1000	8.40	-47.67	≤ -21.6	PASS
			1000~26500	8.40	-30.91	≤ -21.6	PASS
		2441	Reference	8.39	8.39	---	PASS
			30~1000	8.39	-46.45	≤ -21.61	PASS
			1000~26500	8.39	-29.15	≤ -21.61	PASS
		2480	Reference	8.56	8.56	---	PASS
			30~1000	8.56	-46.83	≤ -21.44	PASS
			1000~26500	8.56	-30.02	≤ -21.44	PASS
3DH5	Ant1	2402	Reference	8.41	8.41	---	PASS
			30~1000	8.41	-48.08	≤ -21.59	PASS
			1000~26500	8.41	-29.81	≤ -21.59	PASS
		2441	Reference	8.39	8.39	---	PASS
			30~1000	8.39	-47.77	≤ -21.61	PASS
			1000~26500	8.39	-29.8	≤ -21.61	PASS
		2480	Reference	8.58	8.58	---	PASS
			30~1000	8.58	-46.6	≤ -21.42	PASS
			1000~26500	8.58	-30.71	≤ -21.42	PASS



Band Edge Conducted Test plot as follows:

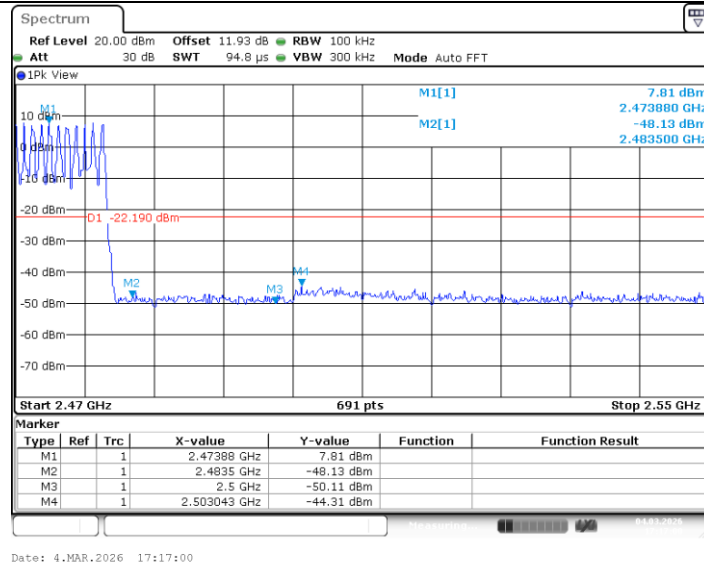


CTC Laboratories, Inc.

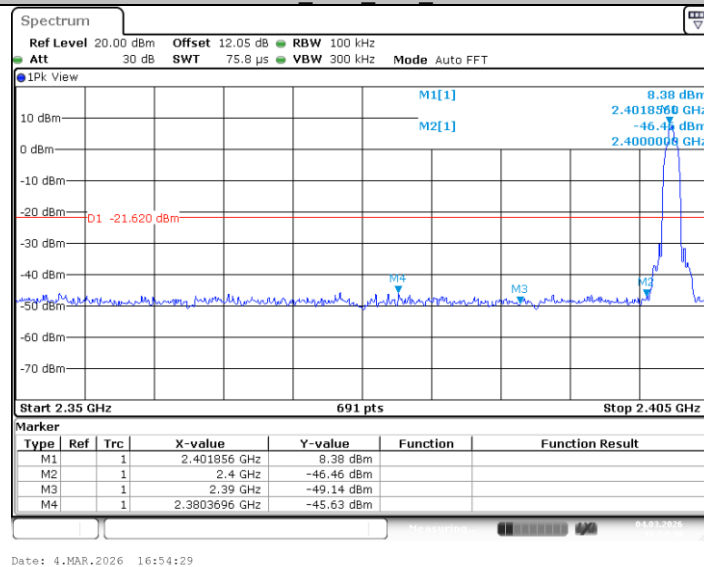
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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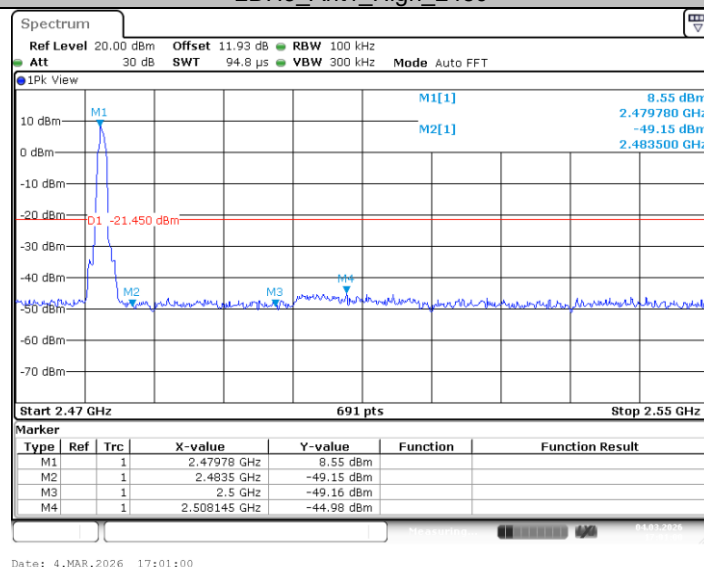
Master TRF : Dated 2026-01-01



2DH5_Ant1_Low_2402



2DH5_Ant1_High_2480



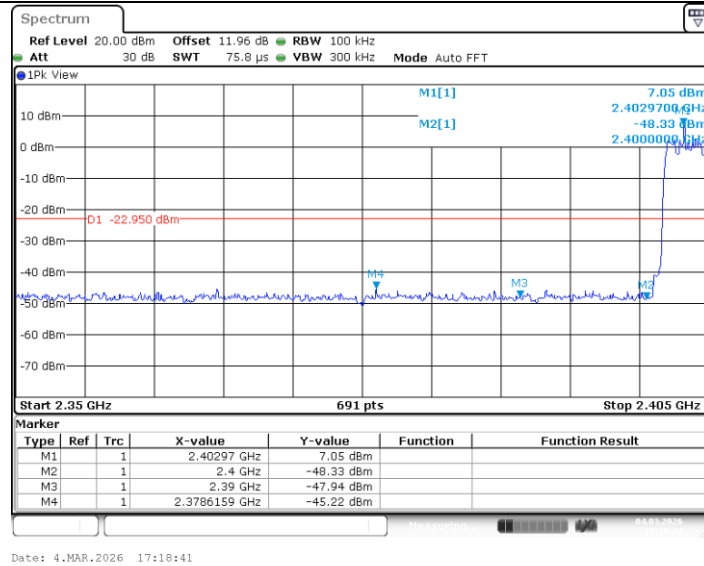
2DH5_Ant1_Low_Hop_2402

CTC Laboratories, Inc.

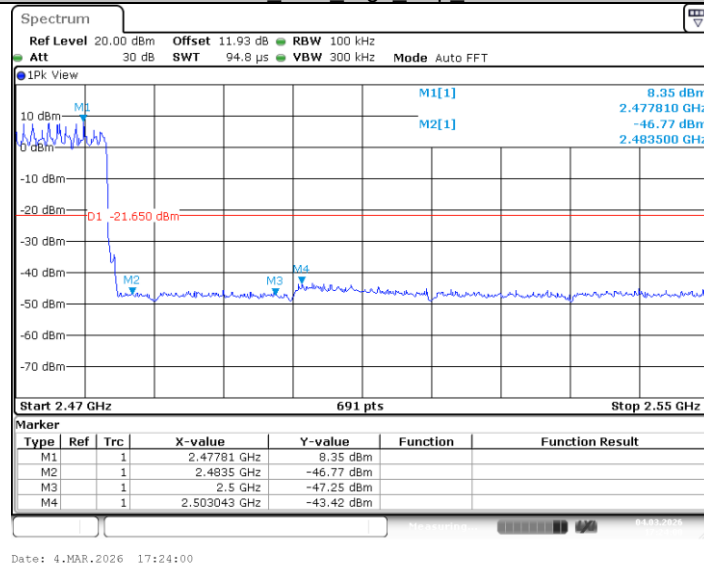
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
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TRF No: CTC-TR-059_A3

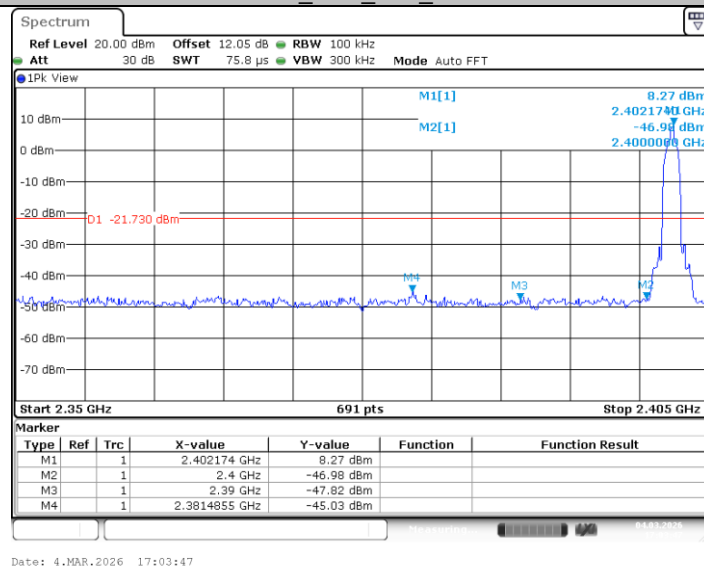
Master TRF : Dated 2026-01-01



2DH5 Ant1 High Hop 2480



3DH5 Ant1 Low 2402



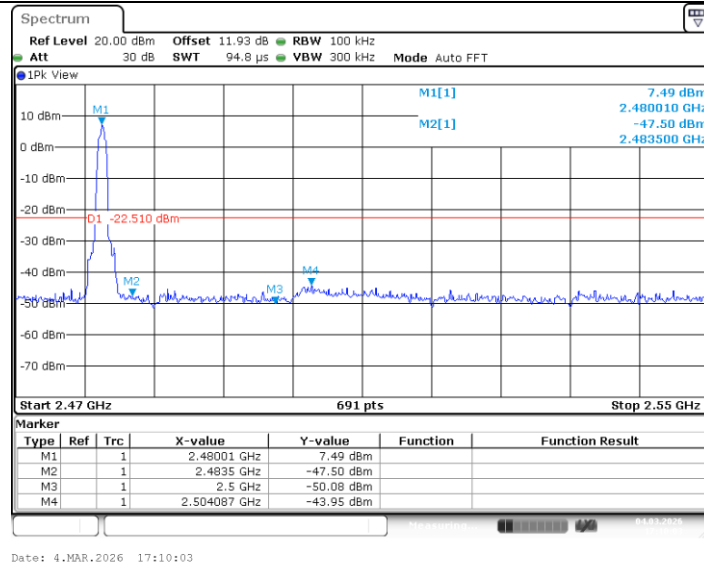
3DH5 Ant1 High 2480

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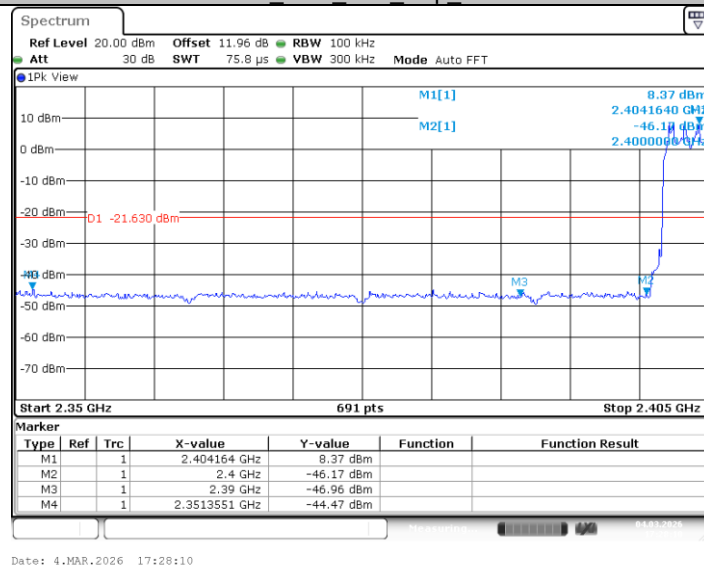
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-059_A3

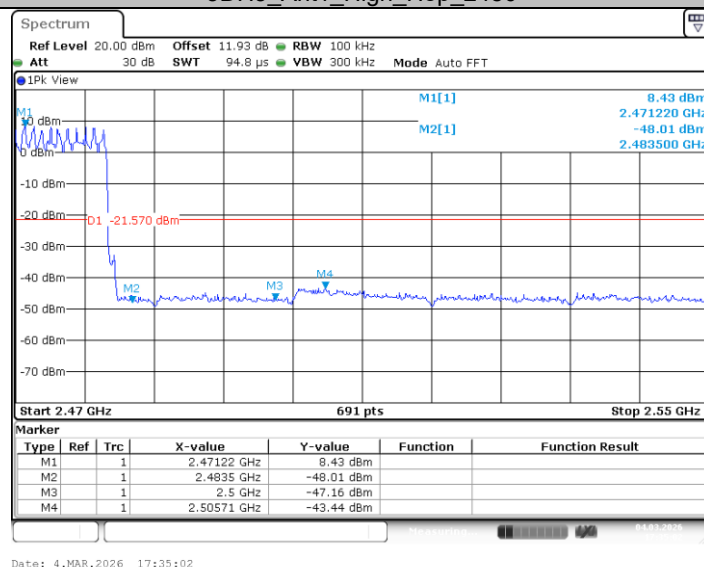
Master TRF : Dated 2026-01-01



3DH5 Ant1 Low Hop 2402



3DH5 Ant1 High Hop 2480



CTC Laboratories, Inc.

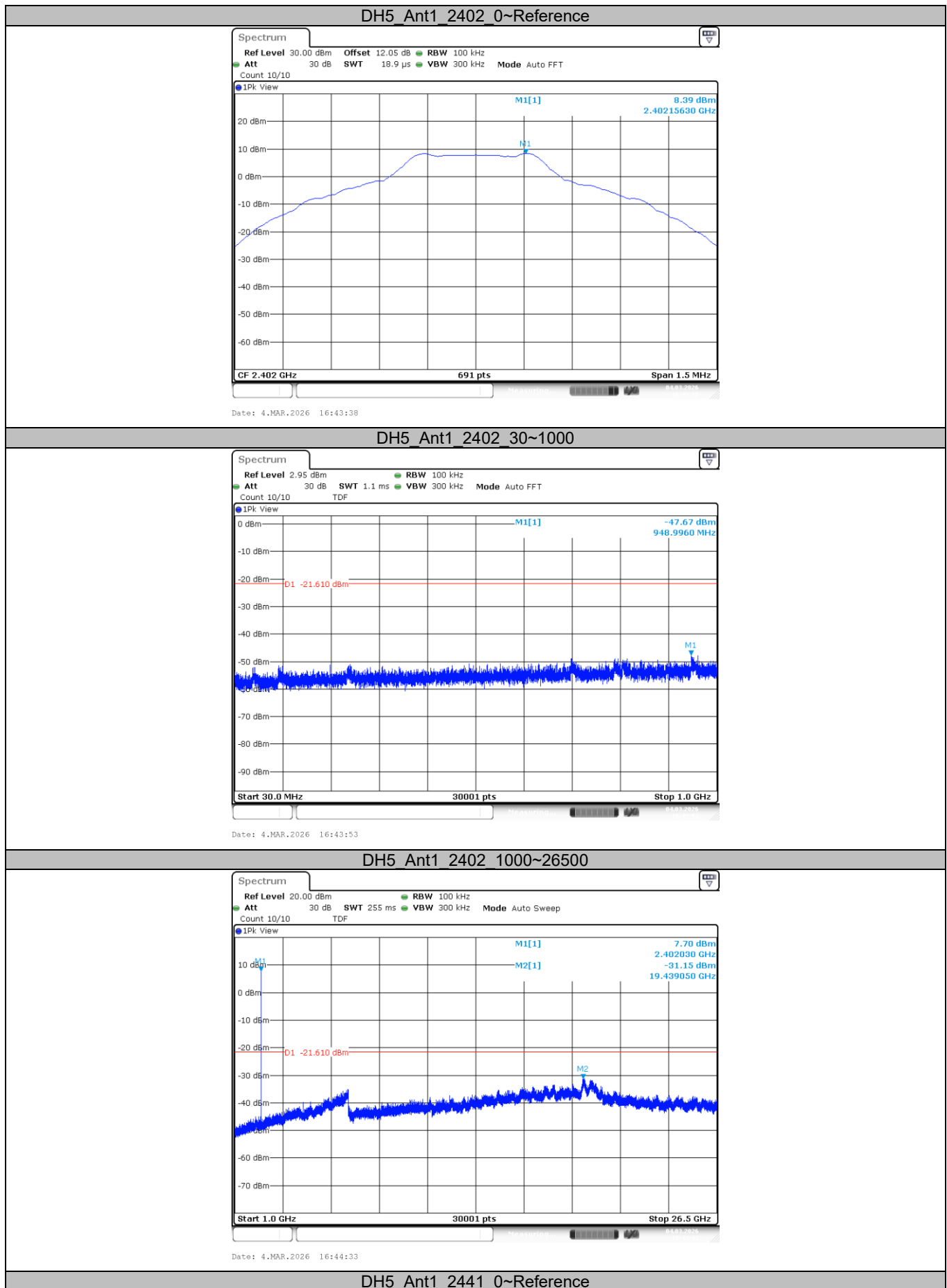
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TRF No: CTC-TR-059_A3

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Conducted Spurious Emissions Test plot as follows

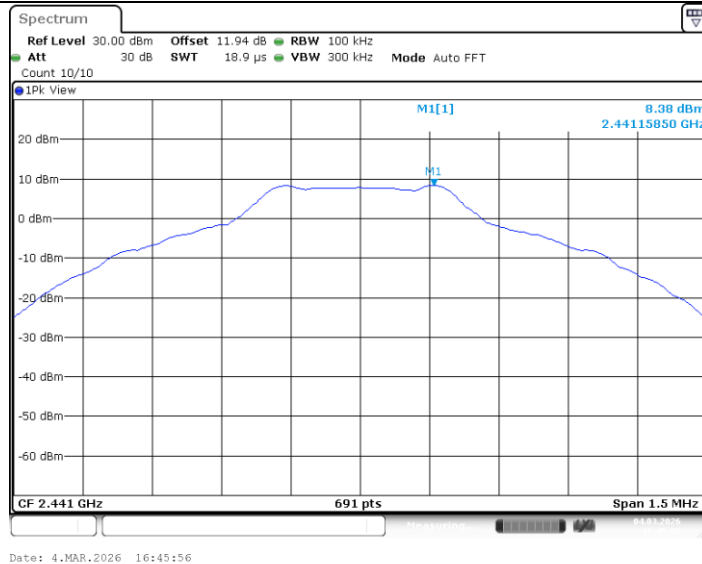


CTC Laboratories, Inc.

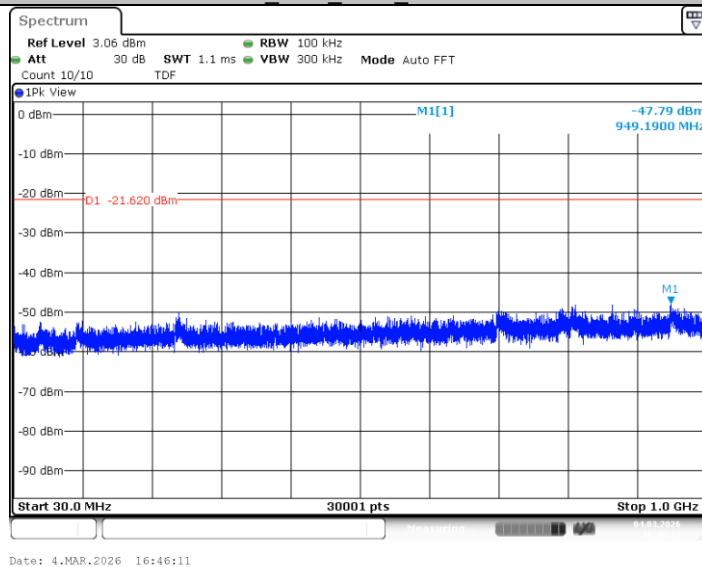
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TRF No: CTC-TR-059_A3

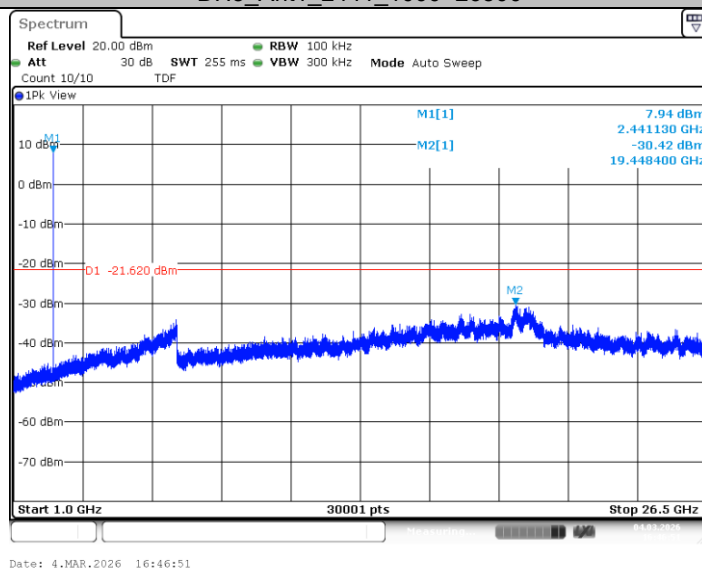
Master TRF : Dated 2026-01-01



DH5_Ant1_2441_30~1000



DH5_Ant1_2441_1000~26500



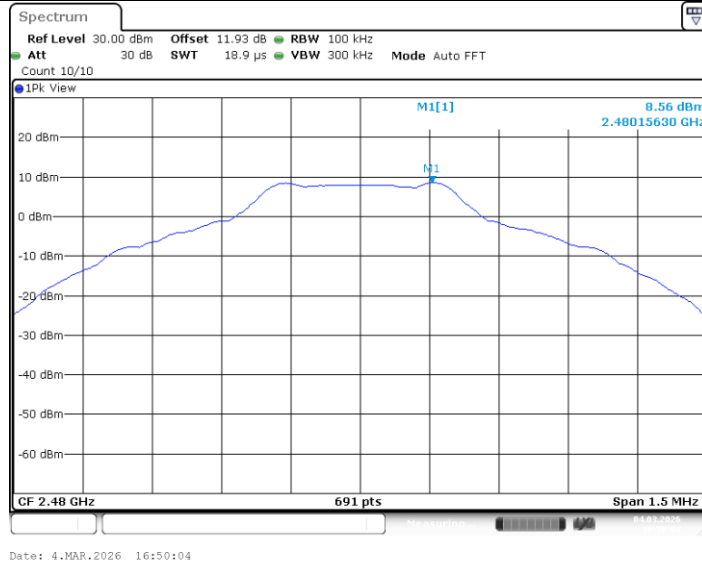
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CTC Laboratories, Inc.

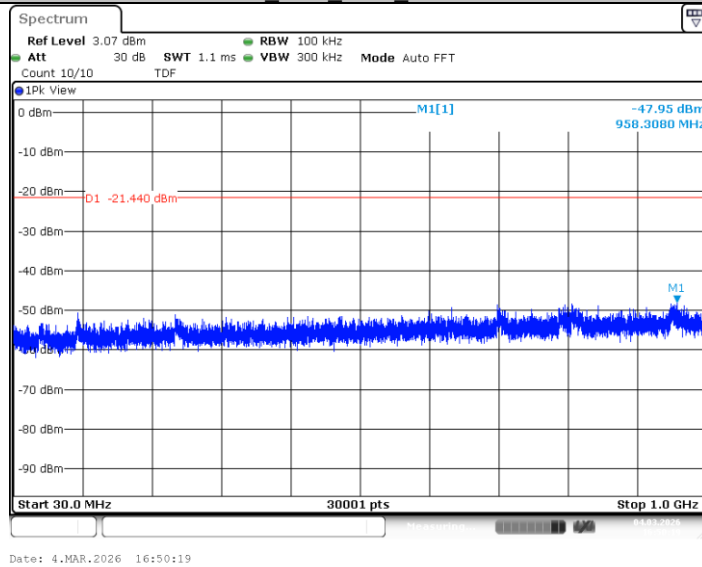
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
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TRF No: CTC-TR-059_A3

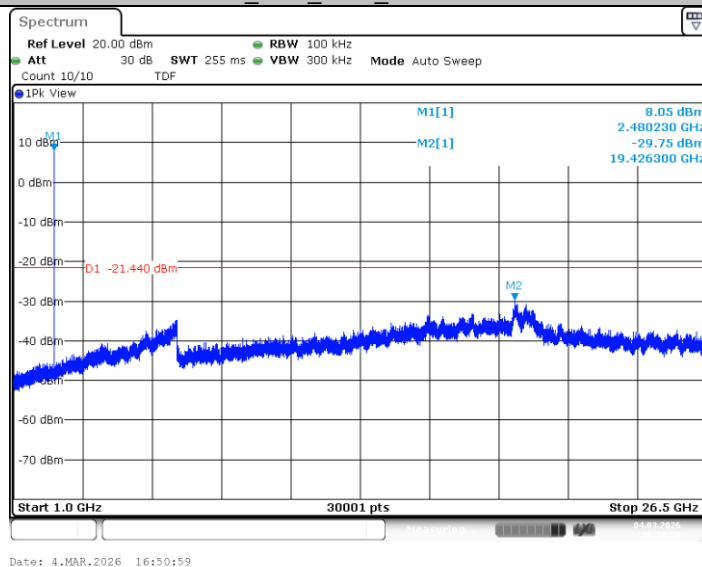
Master TRF : Dated 2026-01-01



DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500



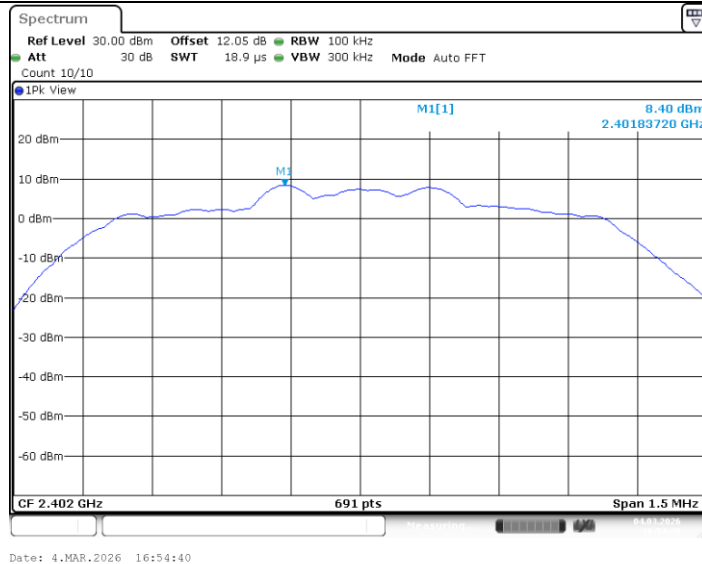
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CTC Laboratories, Inc.

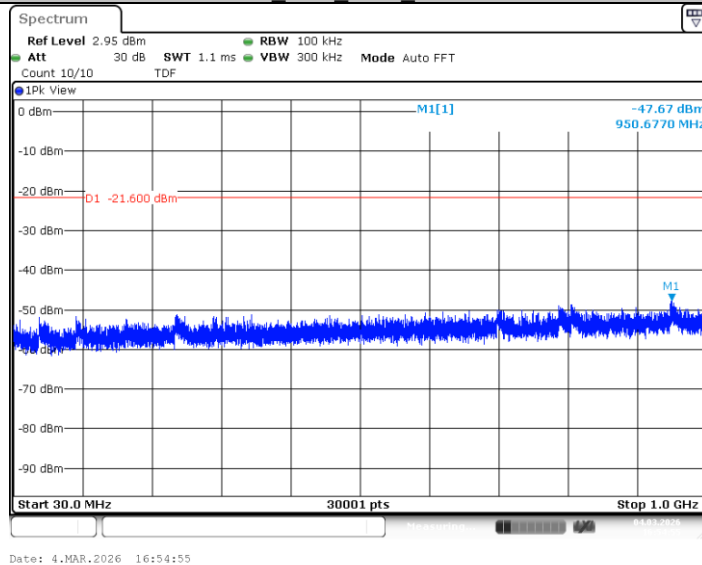
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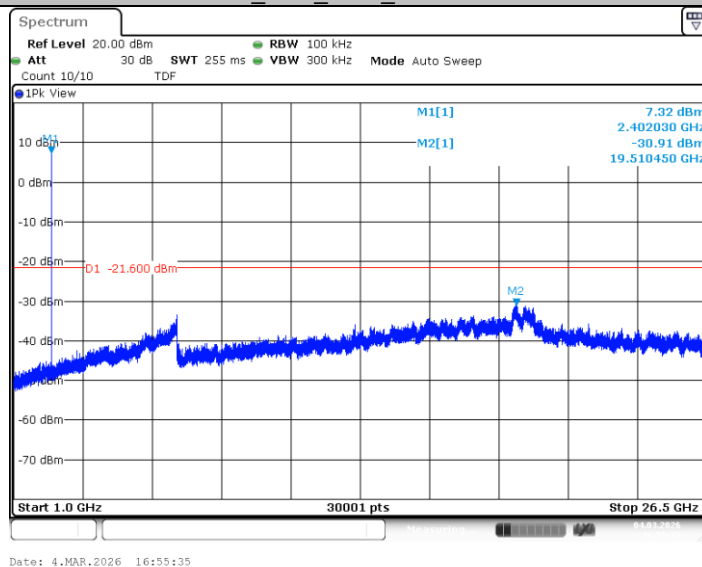
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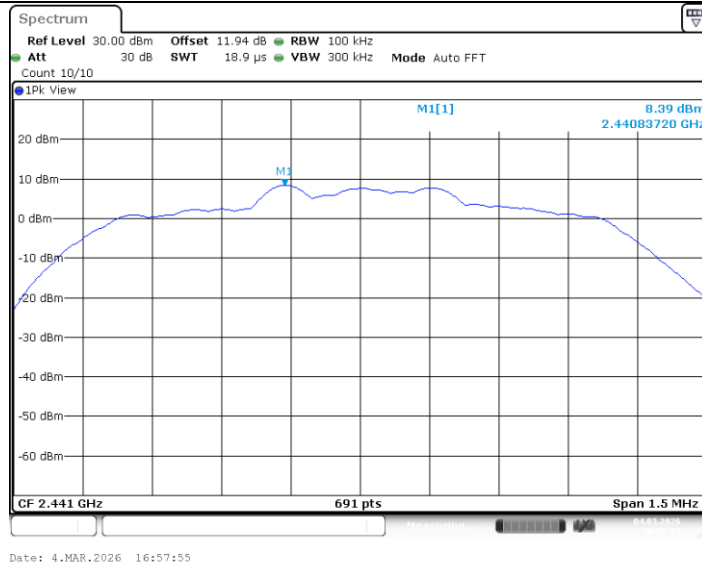
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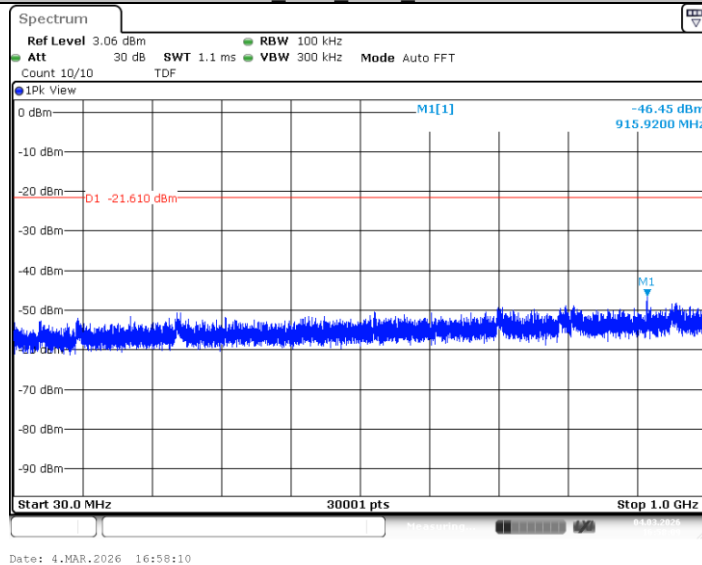
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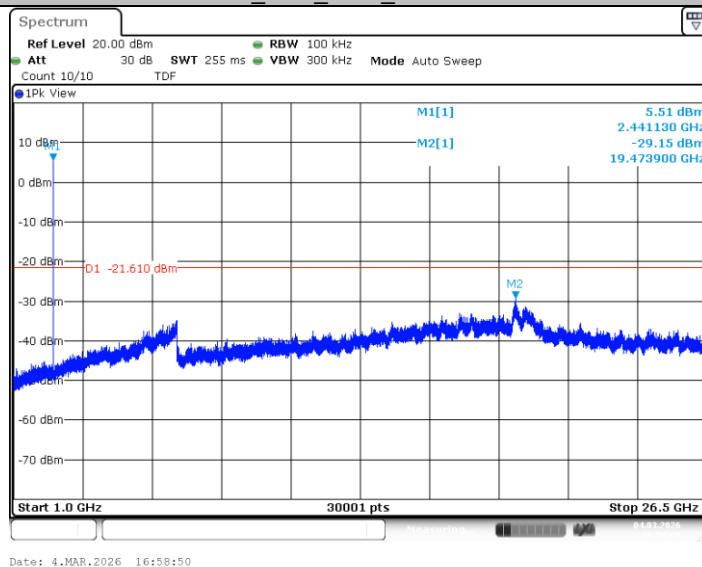
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



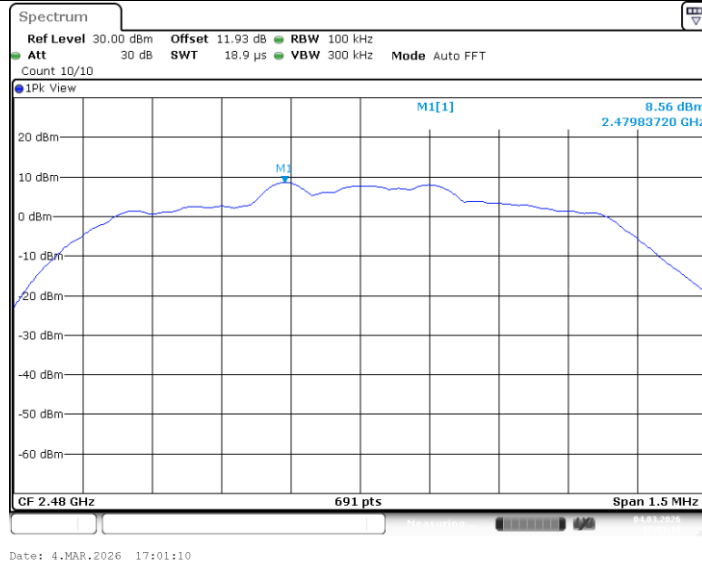
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CTC Laboratories, Inc.

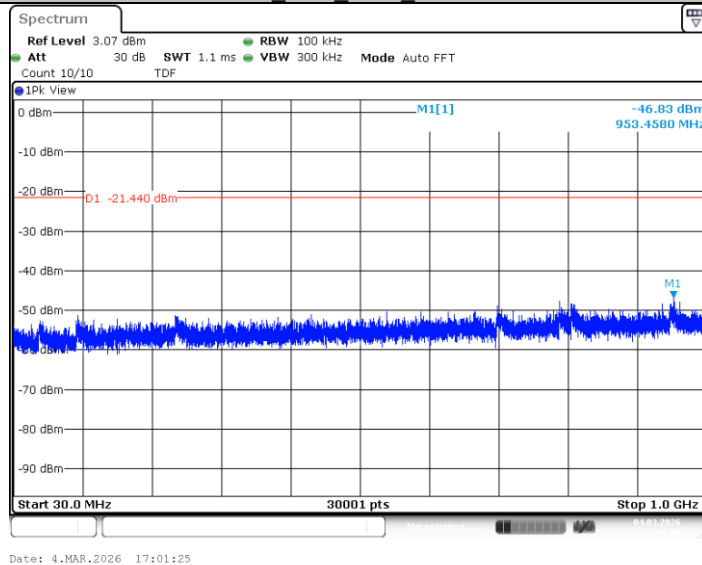
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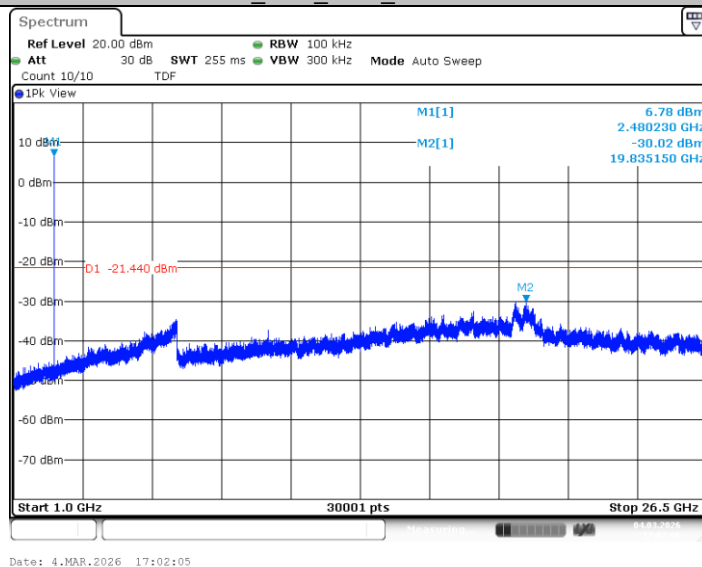
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2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500



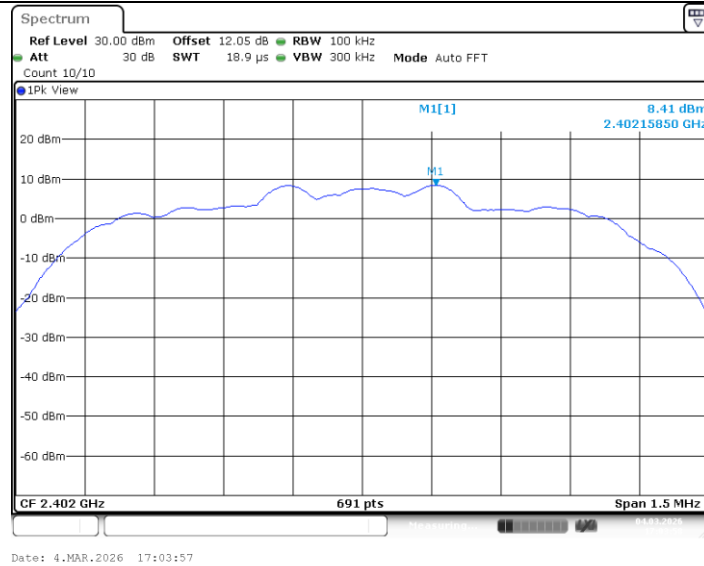
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CTC Laboratories, Inc.

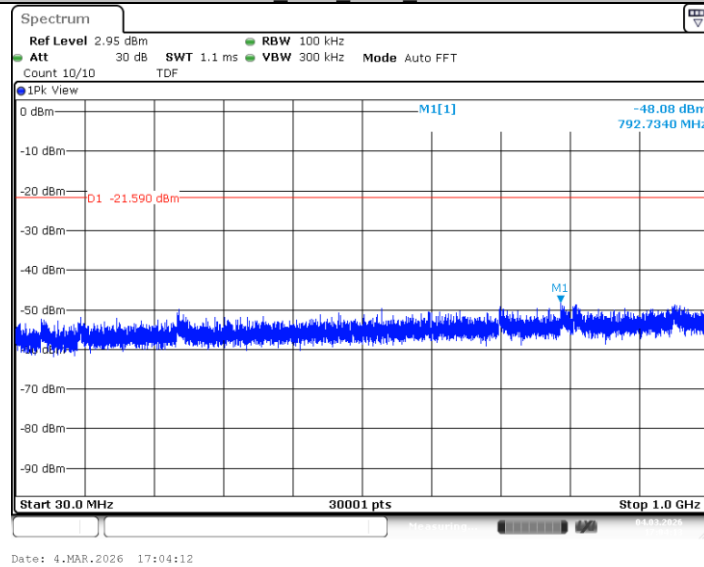
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
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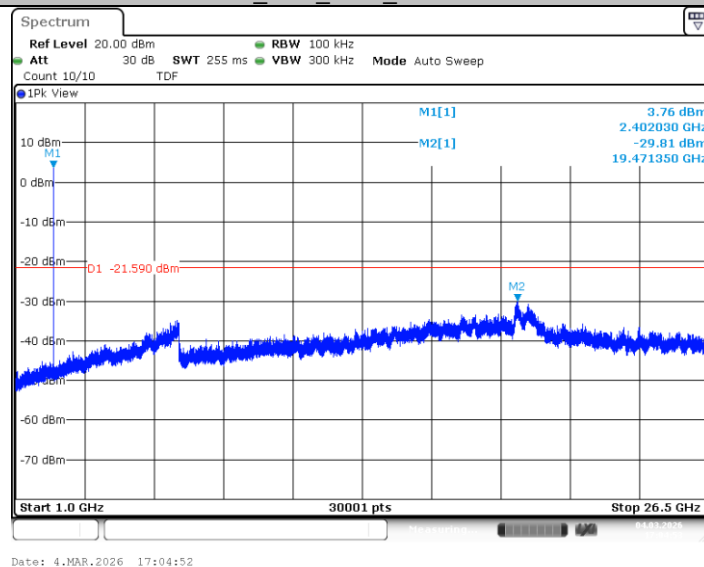
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3DH5_Ant1_2402_30~1000



3DH5_Ant1_2402_1000~26500



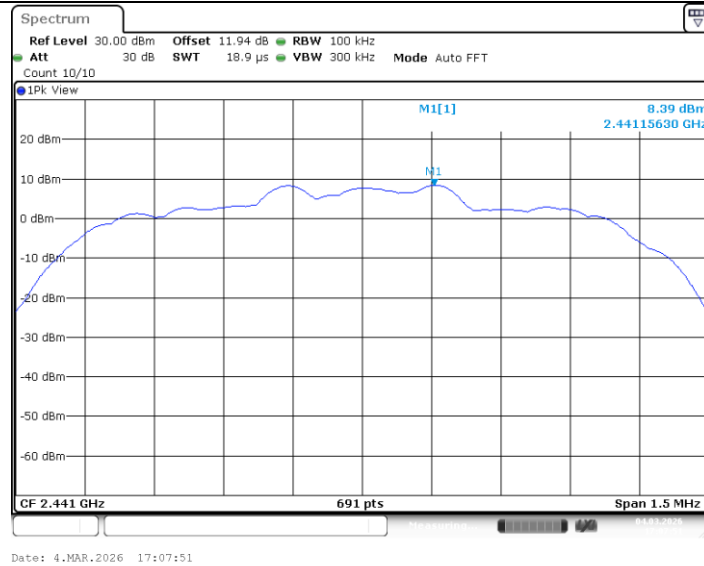
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CTC Laboratories, Inc.

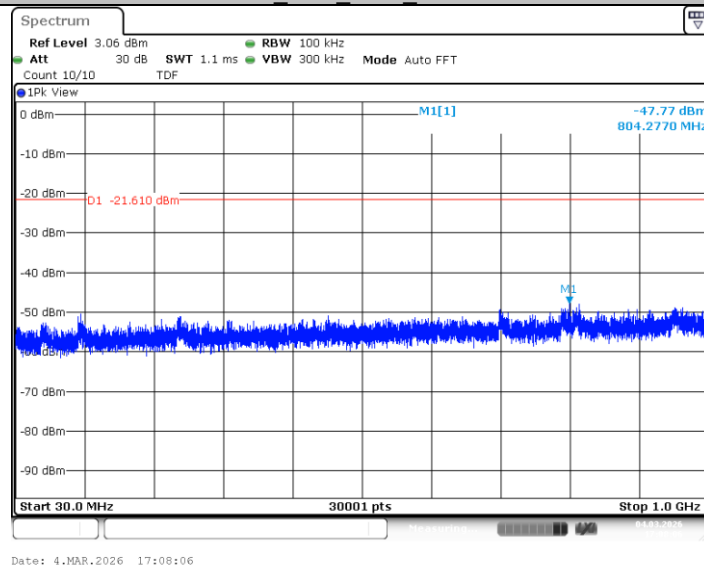
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
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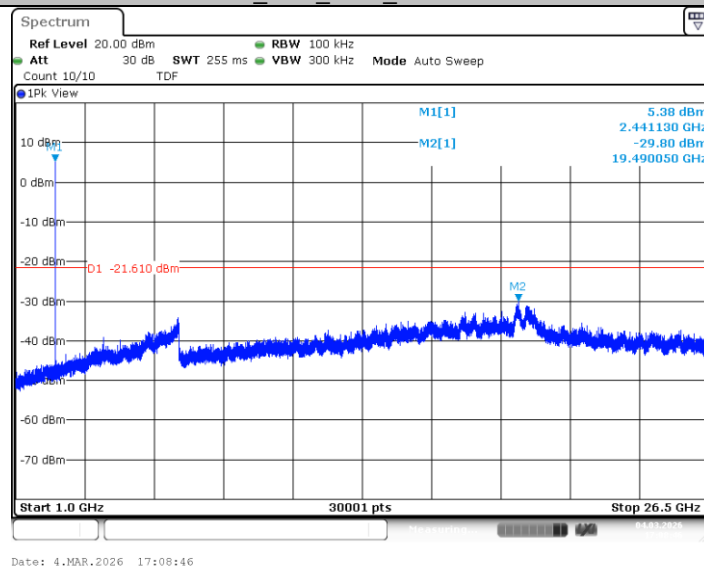
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3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500



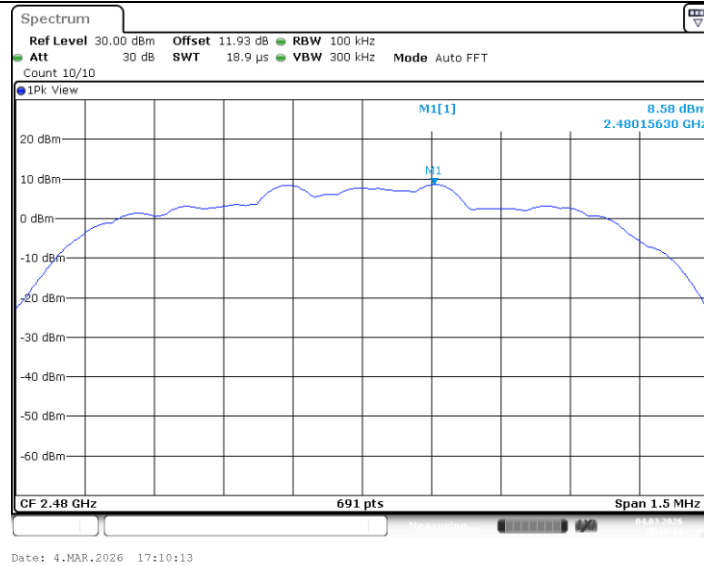
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CTC Laboratories, Inc.

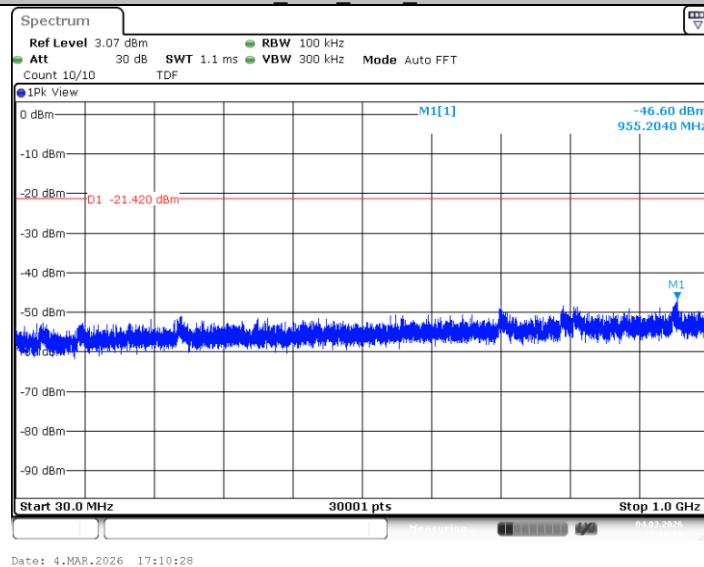
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
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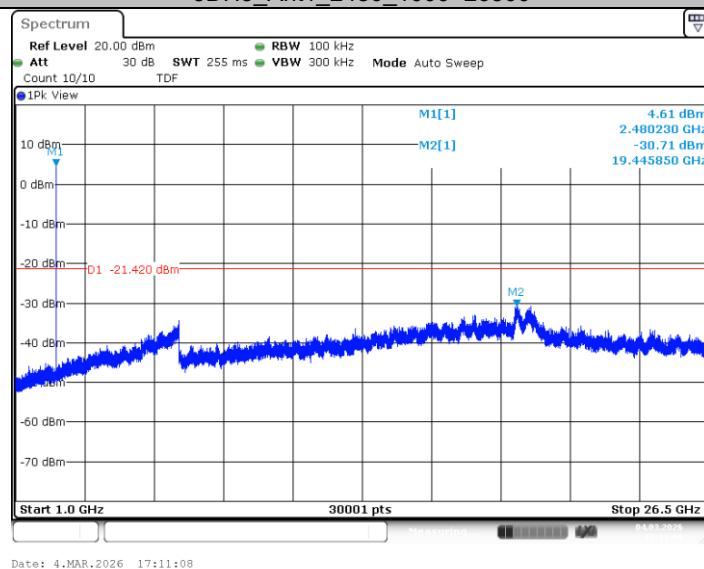
Master TRF : Dated 2026-01-01



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500



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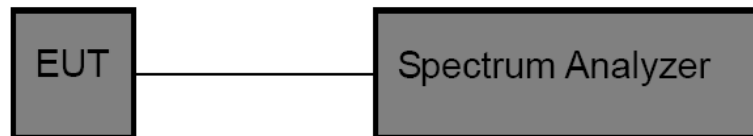


3.5. 20dB Bandwidth

Limit

N/A

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. OCB and 20dB Spectrum Setting:
 - (1) Set RBW = 1% ~ 5% occupied bandwidth.
 - (2) Set the video bandwidth (VBW) ≥ 3 RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.

Note: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

Test Mode

Please refer to the clause 2.4.

Test Result

Test Mode	Frequency (MHz)	99% Bandwidth (MHz)	20dB Bandwidth (MHz)	20dB Bandwidth *2/3 (MHz)
GFSK	2402	0.89011	0.97	0.647
	2441	0.89011	0.96	0.640
	2480	0.89011	0.97	0.647
$\pi/4$ -DQPSK	2402	1.1568	1.24	0.827
	2441	1.1568	1.24	0.827
	2480	1.1598	1.24	0.827
8-DPSK	2402	1.1538	1.27	0.847
	2441	1.1538	1.27	0.847
	2480	1.1628	1.27	0.847