Report on the FCC and IC Testing of the APTIV Services Deutschland GmbH Vehicle Radar Model: SRR6PB2 In accordance with FCC 47 CFR Part 95, Subpart M

Product Service

Add value.
Inspire trust.

Prepared for: APTIV Services Deutschland GmbH
Am Technologiepark 1
42119 Wuppertal, Germany

FCC ID: LTQSRR6PB2

COMMERCIAL-IN-CONFIDENCE

Date: 2023-01-30
Document Number: TR-713277801-00 | Revision 1

RESPONSIBLE FOR	NAME	DATE	SIGNATURE
Project Management	Martin Steindl	2023-01-30	Steindl Martin SIGN-ID 753334
Authorised Signatory	Matthias Stumpe	2023-01-30	Stump SIGN-ID 753356

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD Product Service document control rules.

Engineering Statement:
This measurement shown in this report were made in accordance with the procedures described on test pages.
All reporded testing was carried out on a sample equipment to demonstrate limited compilance with with FCC 47 CFR Part 95, Subpart M.
The sample tested was found to comply with the requirements defined in the applied rules.

RESPONSIBLE FOR	NAME	DATE	SIGNATURE
Testing	Martin Steindl	2023-01-30	Steindl Martin SIGN-ID 753336

Laboratory Accreditation
DAkkS Reg. No. D-PL-11321-11-02
DAkkS Reg. No. D-PL-11321-11-03

Laboratory recognition
Registration No. BNetzA-CAB-16/21-15

Executive Statement:
A sample of this product was tested and found to be compilant with FCC 47 CFR Part 95, Subpart M : 2021

Bundesnetzagentur
BNetzA-CAB-16/21-15

ACCREDITATION
Our BNetzA Accreditation does not cover opinions and interpretations and any expressed are outside the scope of our BNetzA Accreditation.
Results of tests not covered by our BNetzA Accreditation Schedule are marked NBA (Not BNetzA Accredited).

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Product Service

Content

Product Service

1 Report Summary

1.1 Modification Report

Alternations and additions of this report will be issued to the holders of each copy in the form of a complete document.

Revision	*Description of changes*	*Date of Issue*
0	First Issue	2022-12-13
1	Corrected indicated of detector on page 9	2023-01-30

Table 1: Report of Modifications

1.2 Introduction

Applicant	APTIV Services Deutschland GmbH Am Technologiepark 1 42119 Wuppertal, Germany
Manufacturer	APTIV Services Deutschland GmbH
Model Number(s)	SRR6PB2
FCC ID:	LTQSRR6PB2
Serial Number(s)	0002
Hardware Version(s)	B2
Software Version(s)	4.0.0
Number of Samples Tested	1
Test Specification(s) / Issue / Date	FCC 47 CFR Part 95 M : 2021
Test Plan/Issue/Date	N/A
Order Number	454163298
Date	2022-11-21
Date of Receipt of EUT	2022-11-18
Start of Test	2022-11-25
Finish of Test	2022-12-0
Name of Engineer(s)	M. Steindl, A. Fink
Related Document(s)	ANSI C63.10:2013

Product Service

1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 95, Subpart M is shown below.

Section	*Specification Clause*	*Test Description*	*Result*
2.1	§ 95.3367 (a)	Radiated Average Power	Passed
2.2	§ 95.3367 (b)	Radiated Peak Power	Passed
2.3	§ 95.3379	Radiated Emissions	Passed
2.4	§ 95.3385	Bandwidth of Signal	Passed

Table 2: Results according to FCC 47 CFR Part 95, Subpart M

Product Service

1.4 Product Information

1.4.1 Technical Description

The Device Under Test (DUT) is a 76 to 77 GHz vehicular radar. The device employs a dynamic chirp modulated transmit array. Multiple receive antennas are used to determine target angular resolution through digital beam forming. When installed on a vehicle, the device will operate when the vehicle is running.

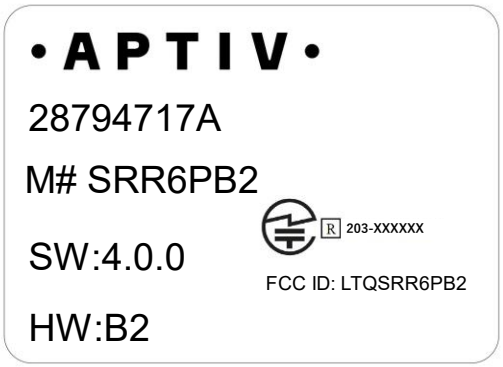
Frequency Band	76 – 81 GHz
Emission designator:	725MFXN
Supply Voltage:	12 V
Supply Frequency:	DC (0 Hz)

1.4.2 EUT Ports / Cables identification

Port	*Max Cable Length specified*	*Usage*	*Screened*
Wiring harness	2 m	DC supply and Data I/O	No

Table 3

1.4.3 Label



1.5 Test Configuration

The applicant provided a test sample for stand alone operation.

1.6 Modes of Operation

The DUT transmitted continuously in the 76 to 77 GHz frequency band.

1.7 EUT Modifications Record

The table below details modifications made to the EUT during the test programme.
The modifications incorporated during each test are recorded on the appropriate test pages.

Modification State	Description of Modification still fitted to EUT	Modification Fitted By	Date Modification Fitted
0	As supplied by the customer	Not Applicable	Not Applicable

Table 4

1.8 Test Location

TÜV SÜD Product Service conducted the following tests at our Straubing test laboratory:

Test Name	Name of Engineer(s)
Radiated Average Power	M. Steindl
Radiated Peak Power	M. Steindl
Radiated Emissions	M. Steindl; A. Fink
Bandwidth of Signal	M. Steindl

Office Address:
Äußere Frühlingstraße 45
94315 Straubing
Germany

Product Service

2 Test Details

2.1 Radiated Average Power

2.1.1 Specification Reference

FCC 47 CFR Part 95, Subpart M, Clause 95.3367 (a)

2.1.2 Equipment under Test and Modification State

SRR6PB2; S/N 0002; Modification State 0

2.1.3 Date of Test

2022-11-25

2.1.4 Environmental Conditions

Ambient Temperature	22 °C
Relative Humidity	38 %

2.1.5 Specification Limits

The maximum power (EIRP) within the 76 – 81 GHz band shall not exceed 50 dBm based on measurements employing a power averaging detector with a 1 MHz Resolution Bandwidth (RBW)

2.1.6 Test Method

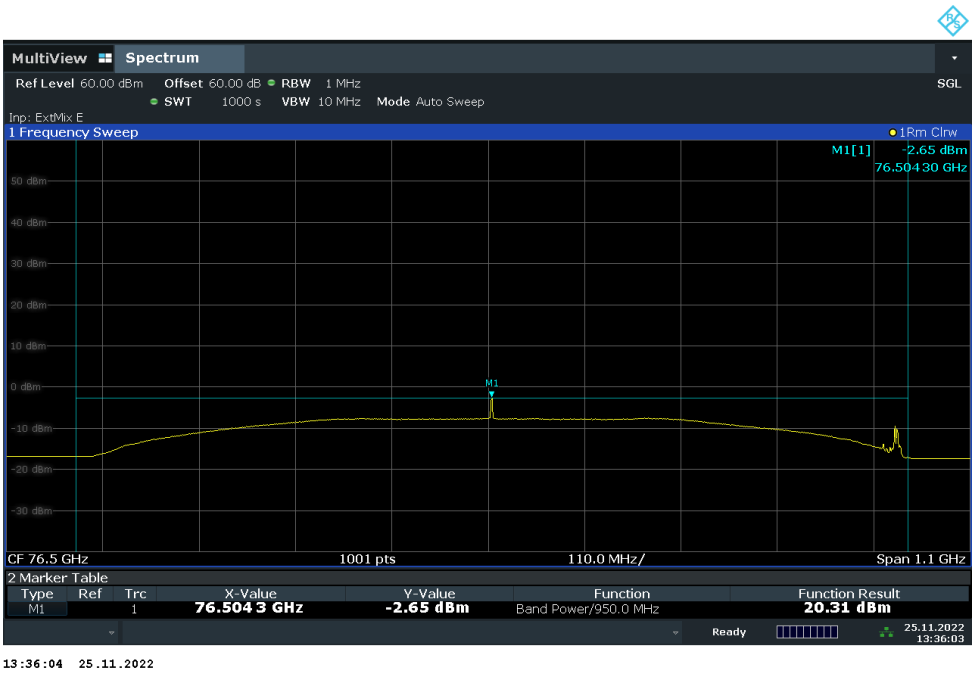
The test was performed according to ANSI C63.10, section 10.3.5
See section 2.3 of this test report for details.

Product Service

2.1.7 Test Results

Detector	*EIRP (dBm)*	*Limit (dBm)*
Average (peak value)	-2.64 dBm	50 dBm
Average (band function)	20.31 dBm	50 dBm

Table 5: RMS Power



2.1.8 Test Location and Test Equipment

The test was carried out in fully anechoic room, No. 2

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Due
Signal and Spectrum Analyzer	Rohde & Schwarz	FSW43	54396	12	2023-04-30
Waveguide Mixer	Rohde & Schwarz	FS-Z90	25850	36	2023-03-28
Horn Antenna	Flann	26240-20	37898		

Table 6

Product Service

2.2 Radiated Peak Power

2.2.1 Specification Reference

FCC 47 CFR Part 95, Subpart M, Clause 95.3367 (b)

2.2.2 Equipment under Test and Modification State

SRR6PB2; S/N 0002; Modification State 0

2.2.3 Date of Test

2022-11-25

2.2.4 Environmental Conditions

Ambient Temperature	22 °C
Relative Humidity	38 %

2.2.5 Specification Limits

The maximum peak power (EIRP) within the 76 – 81 GHz band shall not exceed 55 dBm based on measurements employing a peak detector with a 1 MHz Resolution Bandwidth (RBW)

2.2.6 Test Method

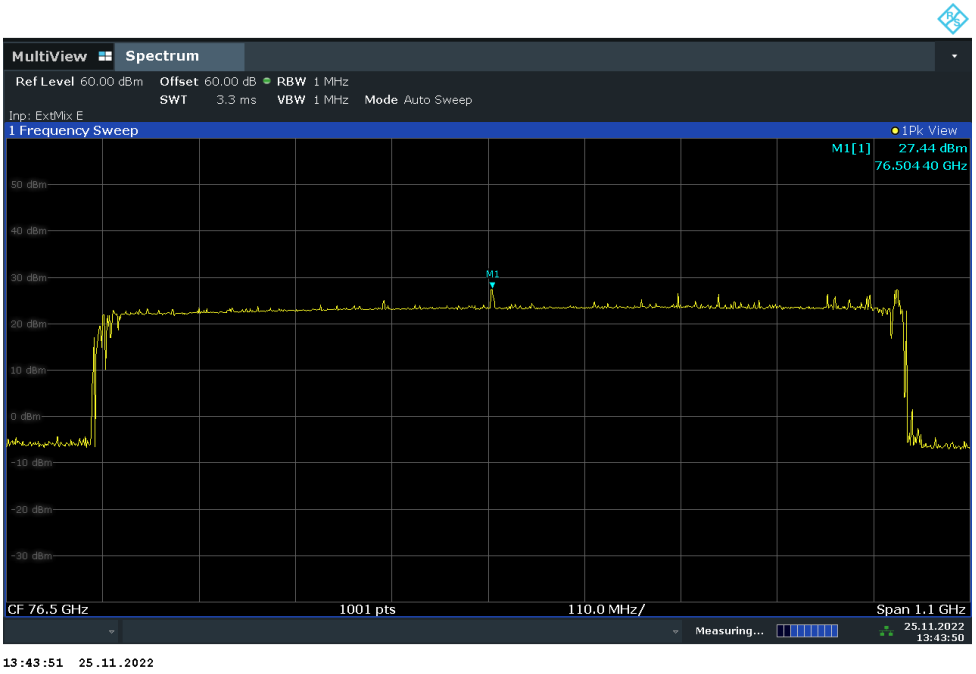
The test was performed according to ANSI C63.10, section 10.3.5
See section 2.3 of this test report for details.

Product Service

2.2.7 Test Results

Detector	*EIRP (dBm)*	*Limit (dBm)*
Peak	27.44 dBm	55 dBm

Table 7: Peak Power



2.2.8 Test Location and Test Equipment

The test was carried out in fully anechoic room, No. 2

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Due
Signal and Spectrum Analyzer	Rohde & Schwarz	FSW43	54396	12	2023-04-30
Waveguide Mixer	Rohde & Schwarz	FS-Z90	25850	36	2023-03-28
Horn Antenna	Flann	26240-20	37898		

Table 8

Product Service

2.3 Radiated Emissions

2.3.1 Specification Reference

FCC 47 CFR Part 95, Subpart M, Clause 95.3379

2.3.2 Equipment under Test and Modification State

SRR6PB2; S/N 0002; Modification State 0

2.3.3 Date of Test

2022-11-25 20 220-12-02

2.3.4 Environmental Conditions

Ambient Temperature	22 °C
Relative Humidity	38 %

Product Service

2.3.5 Specification Limits

General radiated emission limits:					
Frequency Range (MHz)	*Test distance (m)*	*Field strength*		*Field strength*	
		(µA/m)	*(dBµA/m)*	*(µV/m)*	*(dBµV/m)*
0.009 – 0.49	300	6.37 / *f*	20*lg(6.37 / *f*)	2400 / *f*	20*lg(2400 / *f*)
0.49 – 1.705	30	63.7 / *f*	20*lg(63.7 / *f*)	24000 / *f*	20*lg(24000 / *f*)
1.705 - 30	30	0.08	20*lg(0.08 / *f*)	30	20*lg(30 / *f*)
30 – 88	3	---	---	100	40
88 – 216	3	--	---	150	43.5
126 – 960	3	--	---	200	46
960 – 40000	3	---	---	500	54
Note 1: *f* in kHz					

Table 9 Radiated emission limits at or below 40 GHz

Frequency range	*Spectral Density*	*EIRP*
40 – 200 GHz	600 pW/cm² at 3 m	-7.70 dBm
200 – 231 GHz	1000 pW/cm² at 3 m	-5.49 dBm

Table 10 Radiated emission limits above 40 GHz

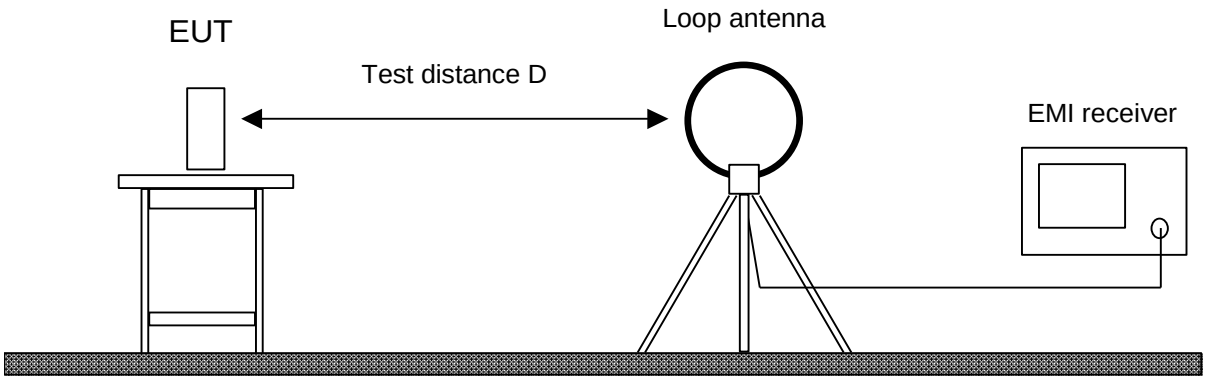
Product Service

2.3.6 Test Method

The test was performed according to ANSI C63.10, sections 11.11 and 11.12

Prescans are performed in six positions of the EUT to get the full spectrum of emission caused by the EUT with the measuring antenna raised and lowered from 1 m to 4 m with vertical and horizontal polarisation to find the combination of table position, antenna height and antenna polarisation for the maximum emission levels.
Data reduction is applied to these results to select those levels having less margin than 10 dB or exceeding the limit using subranges and limited number of maximums.
Further maximisation for adjusting the maximum position is following.
Equipment and cables are placed and moved within the range of position likely to find their maximum emissions.

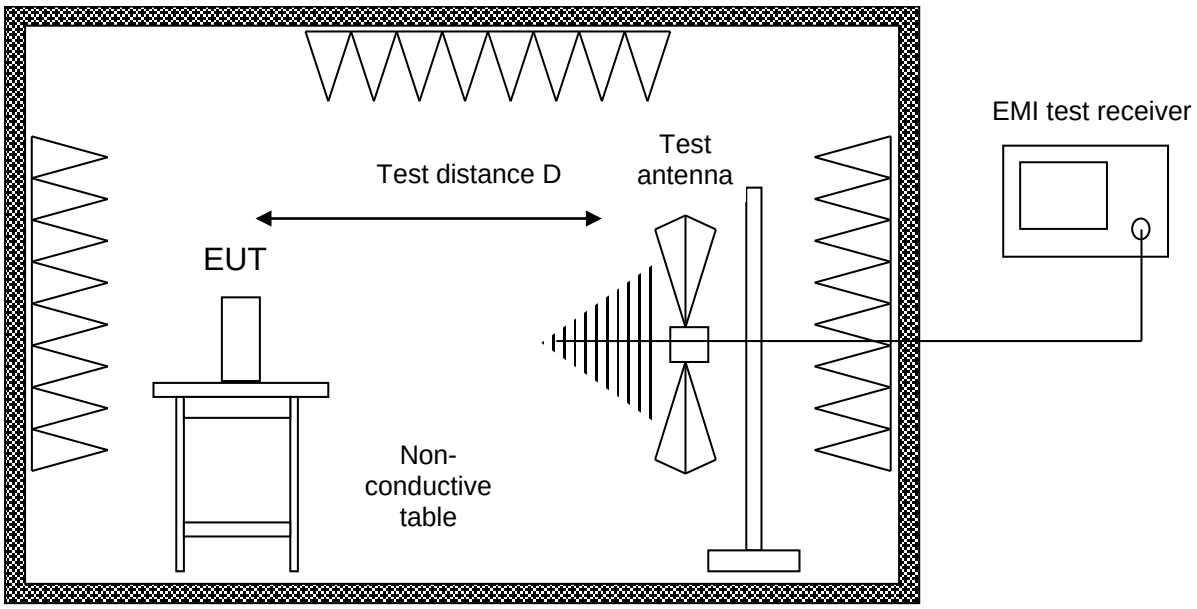
2.3.6.1 Frequency range 9 kHz – 30 MHz



The EUT was placed on a non-conductive table, 0.8 m above the ground.
Radiated emissions in the frequency 9 kHz – 30 MHz is measured within a semi-anechoic room with an active loop antenna with the measurement detector set to peak. In addition in the frequency range 9 kHz to 490 kHz also an average detector was used. The measurement bandwidth of the receiver was set to 300 Hz in the frequency range 9 kHz to 150 kHz and 10 kHz in the frequency range 150 kHz to 30 MHz. Prescans were performed in six positions of the EUT.
For final measurements the detector was set to CISPR quasi-peak and in addition to CISPR average in the frequency range 9 kHz to 490 kHz with a resolution bandwidth 200 Hz in the frequency range 9 kHz to 150 kHz and 9 kHz in the frequency range 150 kHz to 30 MHz. Final tests were performed immediately after a final frequency and zoom (for drifting disturbances) and maximum adjustment.

Product Service

2.3.6.2 Frequency range 30 MHz – 1 GHz

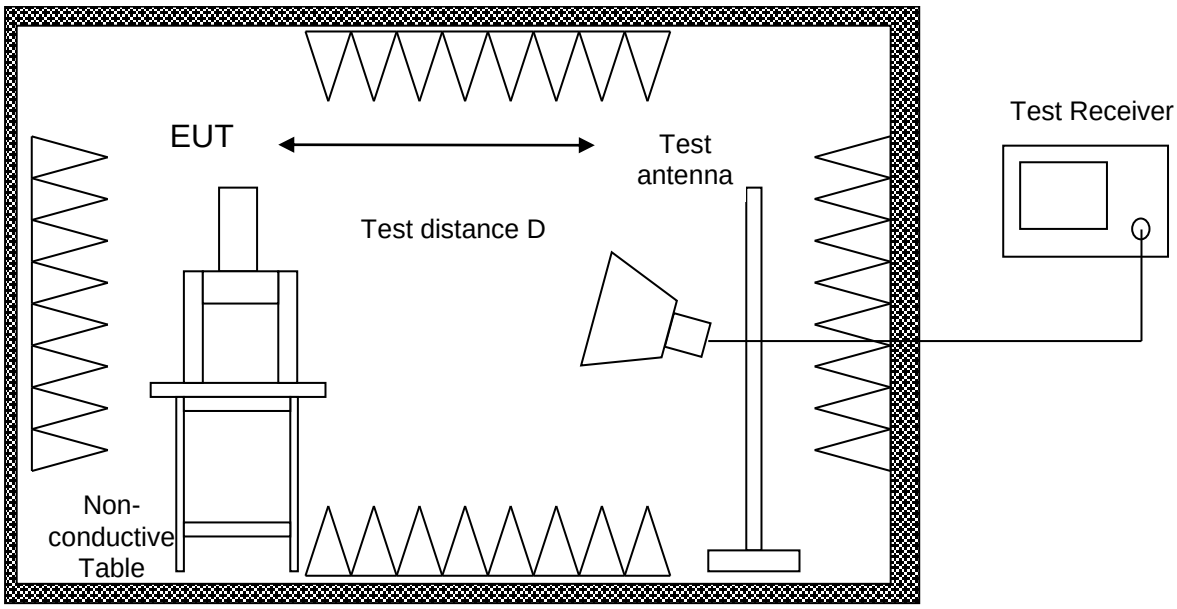


Alternate test site (semi anechoic room)

The EUT was placed on a non-conductive table, 0.8 m above the ground plane
Radiated emissions in the frequency range 30 MHz – 1 GHz is measured within a semi-anechoic room with groundplane complying with the NSA requirements of ANSI C63.4. for alternative test sites. A linear polarised logarithmic periodic antenna combined with a 4:1 broadband dipole (“Trilog broadband antenna”) is used.
For prescan tests the test receiver is set to peak-detector with a bandwidth of 120 kHz.
With the measurement bandwidth of the test receiver set to 120 kHz CISPR quasi-peak detector is selected for final measurements following immediately after a final frequency zoom (for drifting disturbances) and maximum adjustment.

Product Service

2.3.6.3 Frequency range above 1 GHz



Fully anechoic room

The EUT was placed on a non-conductive table, 1.5 m above the ground plane
Radiated emission tests above 1 GHz are performed in a fully anechoic room with the S_{VSWR} requirements of ANSI C63.4. Measurements are performed both in the horizontal and vertical planes of polarisation using a test receiver with the detector function set to peak and average and the resolution bandwidth set to 1 MHz. Testing above 1 GHz is performed with horn antennas with the EUT in boresight of the antenna.
For prescan tests the test receiver is set to peak- and average-detector with a bandwidth of 1 MHz. With the measurement bandwidth of the test receiver set to 1 MHz and peak- and CISPR average-detector is selected for final measurements following immediately after a final frequency zoom (for drifting disturbances) and maximum adjustment.

Product Service

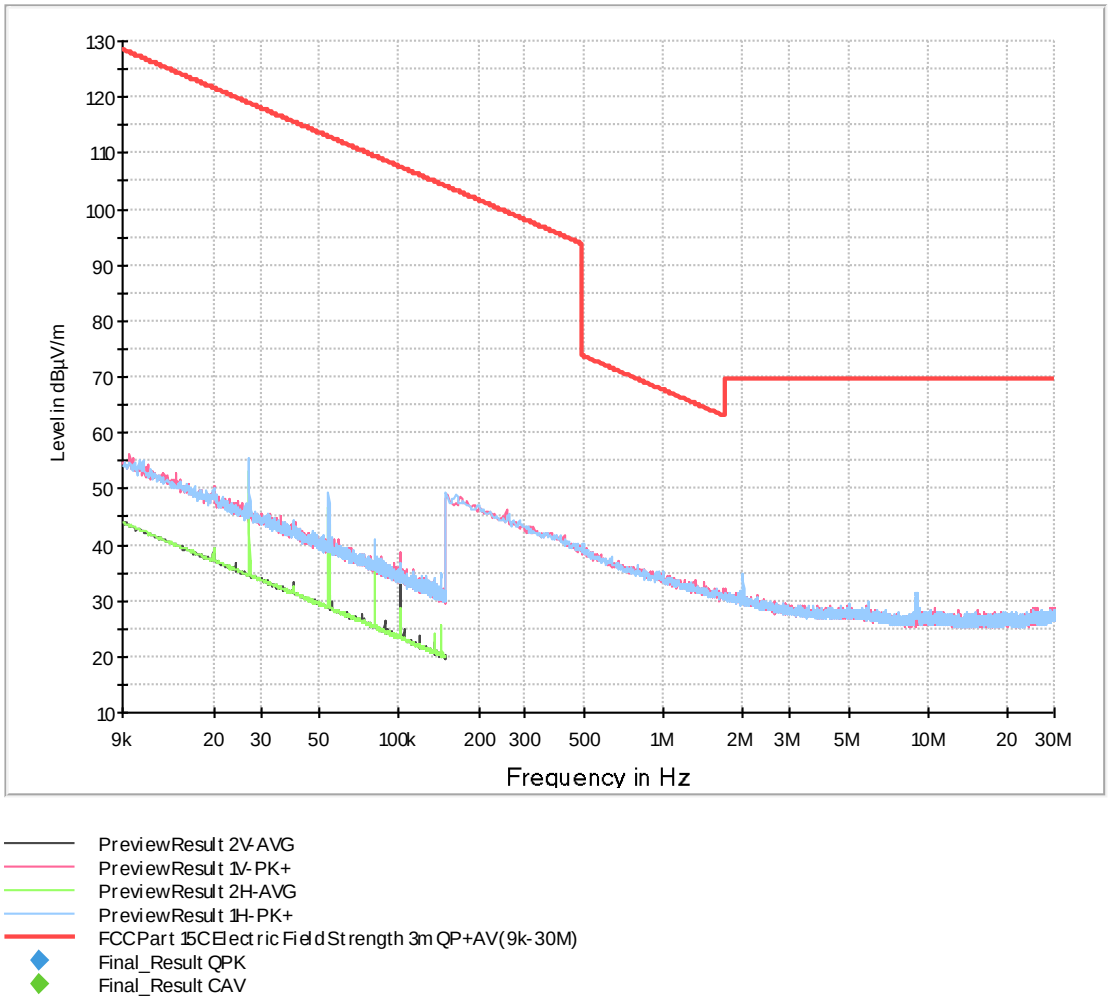
2.3.7 Test Results

Frequency range	*Limit applied*	*Test distance*
9 kHz – 1 GHz	95.3379(a)(1)	3 m
1 – 40 GHz	95.3379(a)(1)	1 m
40 – 110 GHz	95.3379(a)(2)	3 m
110 – 220 GHz	95.3379(a)(2)	1 m
220 – 325 GHz	95.3379(a)(2)	0.5 m

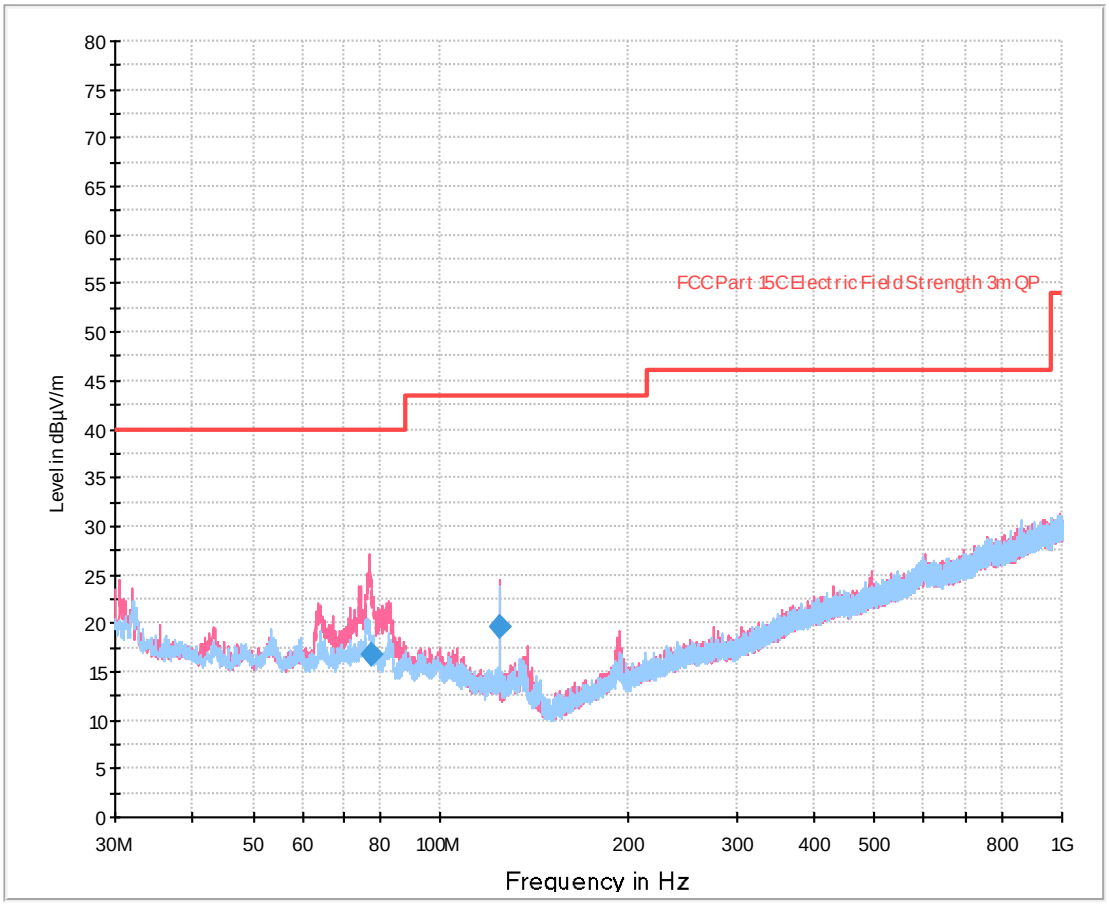
Table 11

Sample calculation:

Final Value (dBµV/m) = Reading Value (dBµV) + (Cable attenuation (dB) + Antenna Transducer (dB(1/m)))

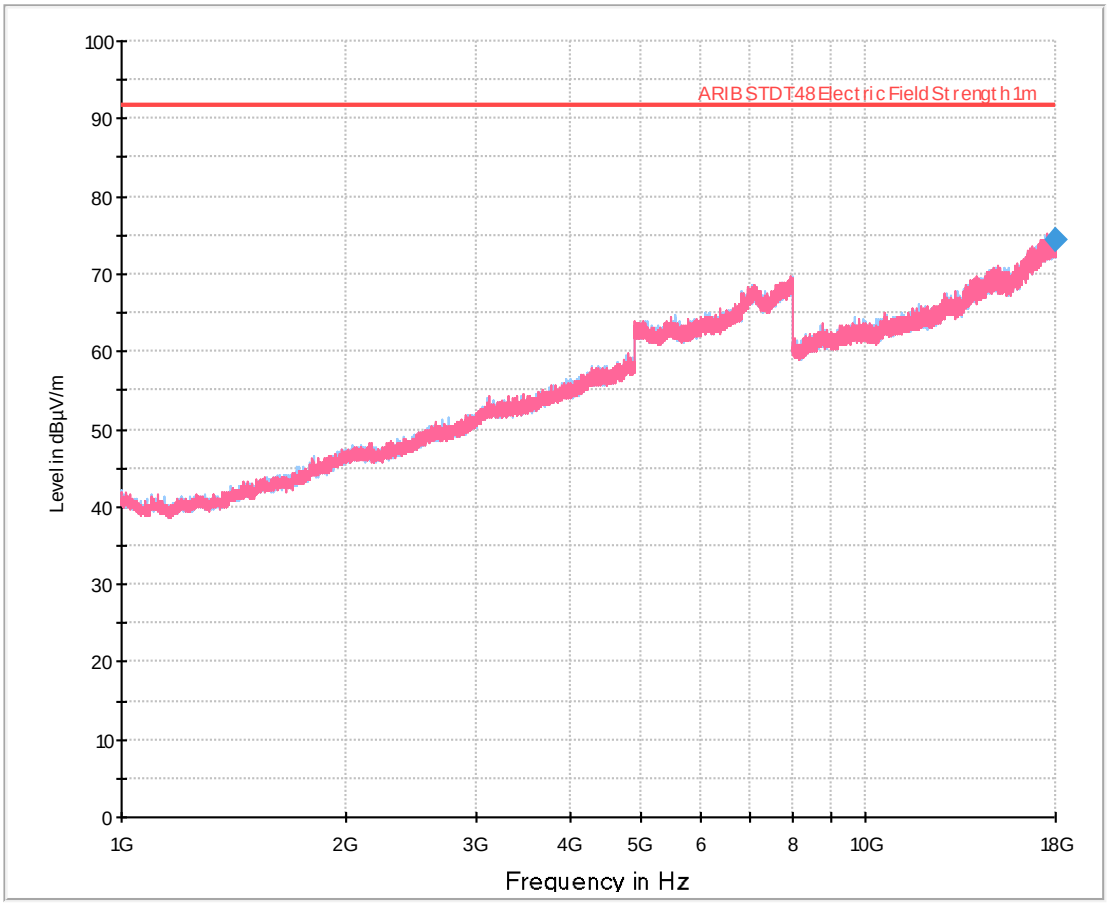


Product Service



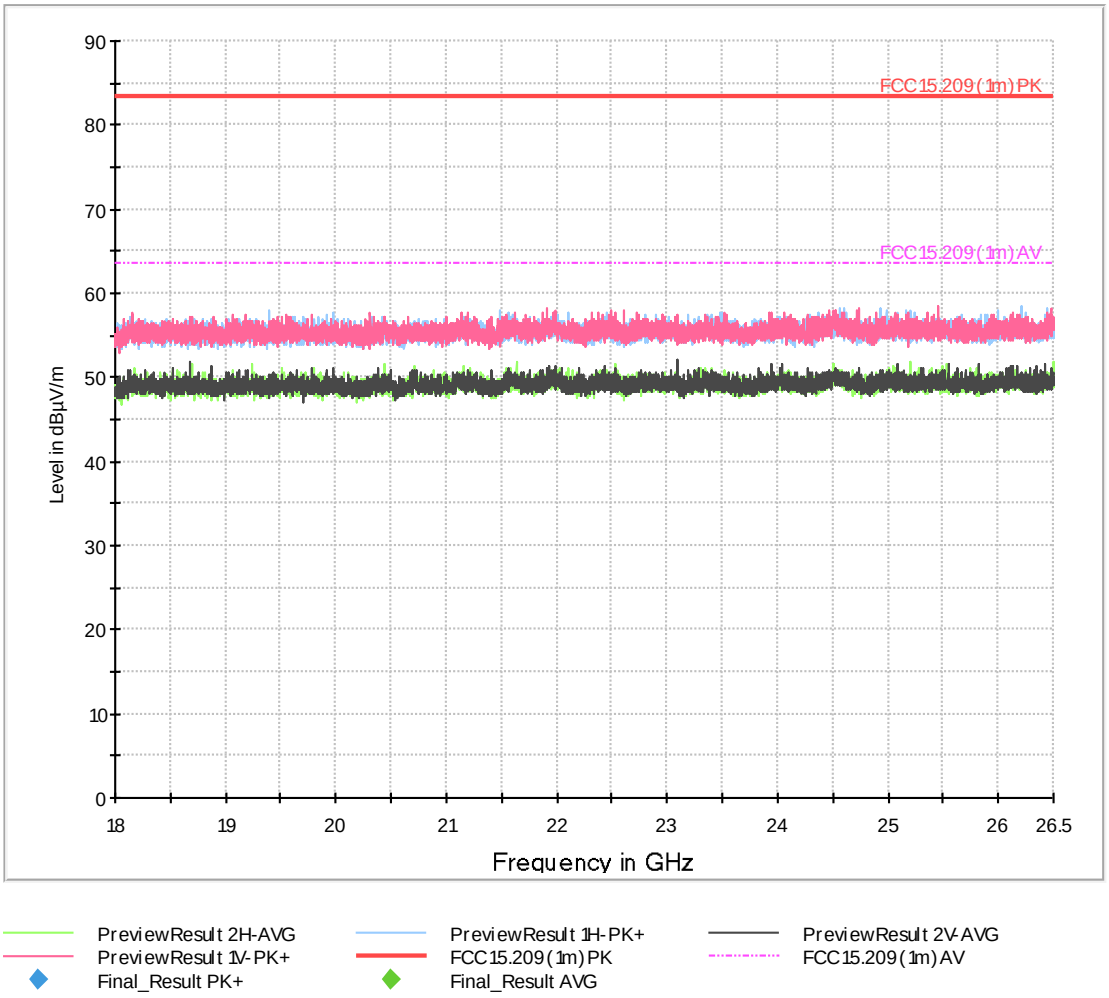
Frequency MHz	*Qua-siPeak dBµV/m*	*Limit dBµV/m*	*Mar-gin dB*	*Meas. Time ms*	*Band-width kHz*	*Height cm*	*Pol*	*Azi-muth deg*	*Corr. dB/m*
77.760000	16.74	40.00	23.26	1000	120	303.0	V	-63.0	13.2
125.010000	19.56	43.50	23.94	1000	120	127.0	V	20.0	10.5

Product Service

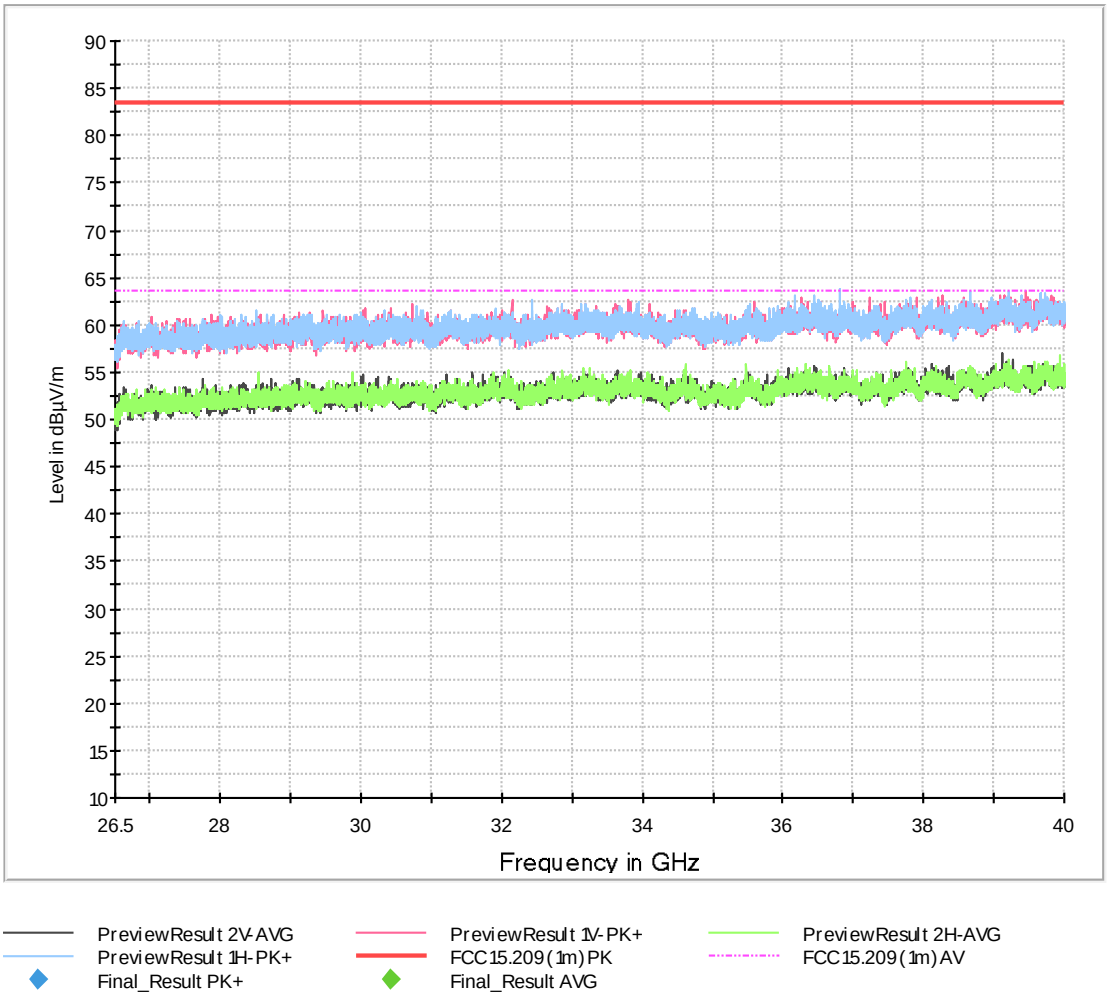


Frequency MHz	*Max-Peak dBµV/m*	*CAver-age dBµV/m*	*Limit dBµV/m*	*Mar-gin dB*	*Meas. Time ms*	*Band-width kHz*	*Height cm*	*Pol*	*Azi-muth deg*	*Corr. dB*
17995.750000	74.48	0.00	83.50	9.02	1000	1000	132.0	H	-82.0	59.1
17995.750000	0.00	60.98	63.50	2.52	1000	1000	132.0	H	-82.0	59.1

Product Service



Product Service



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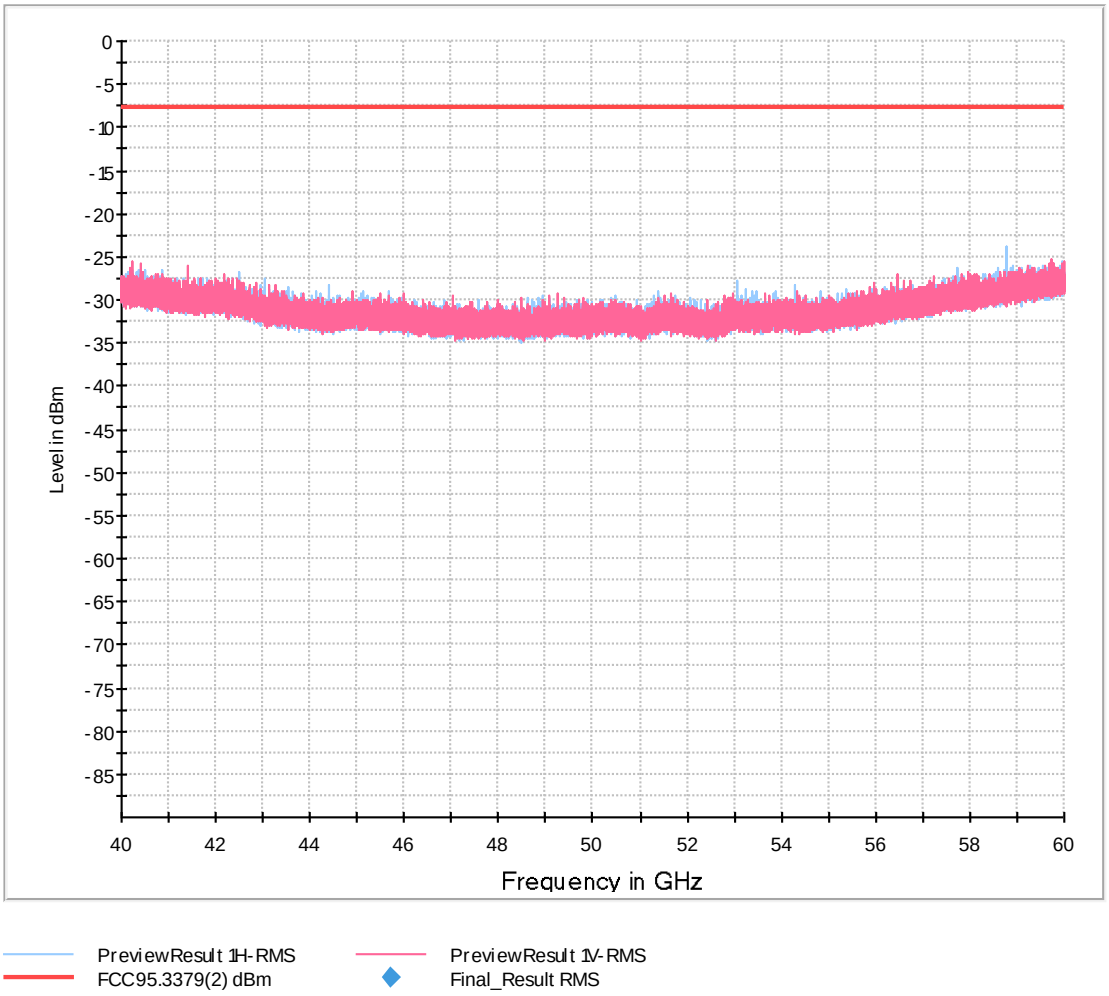
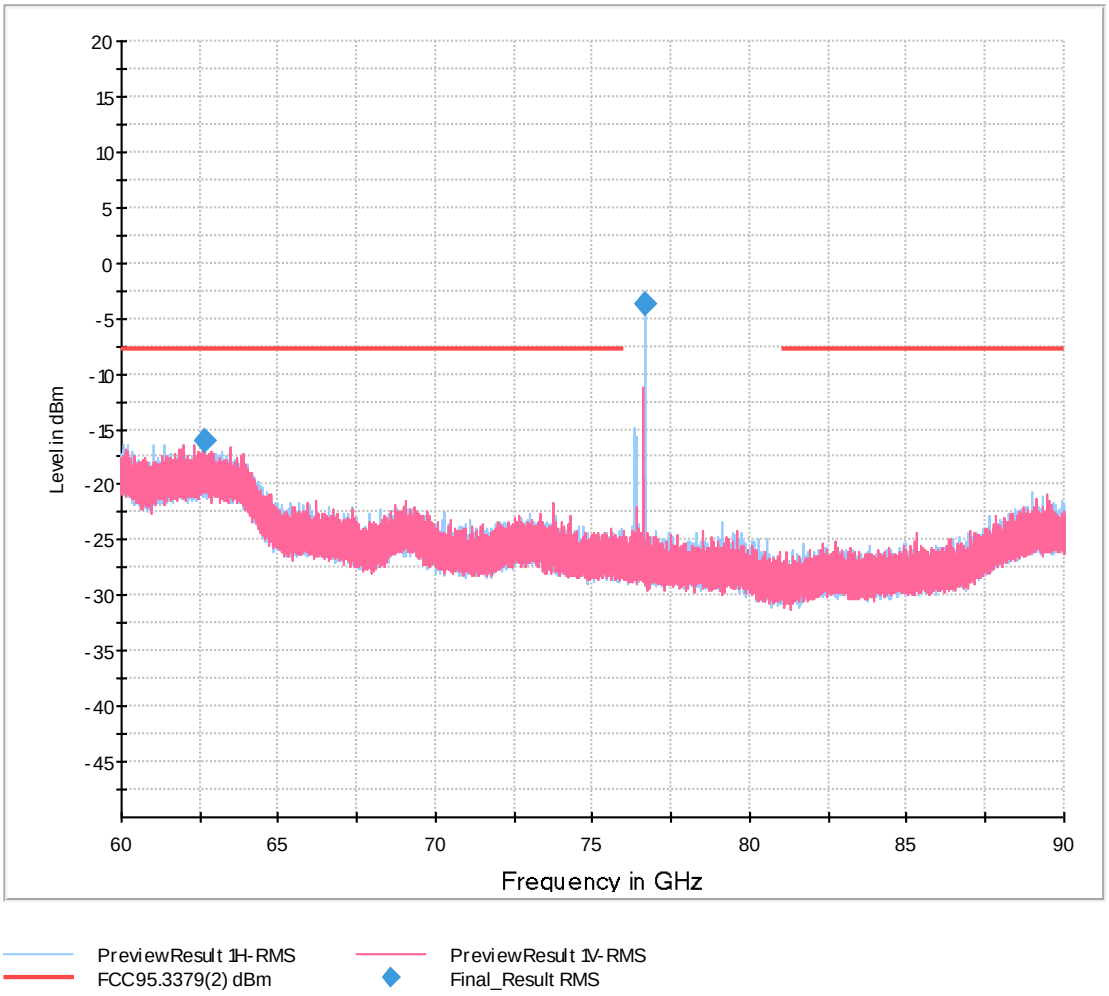
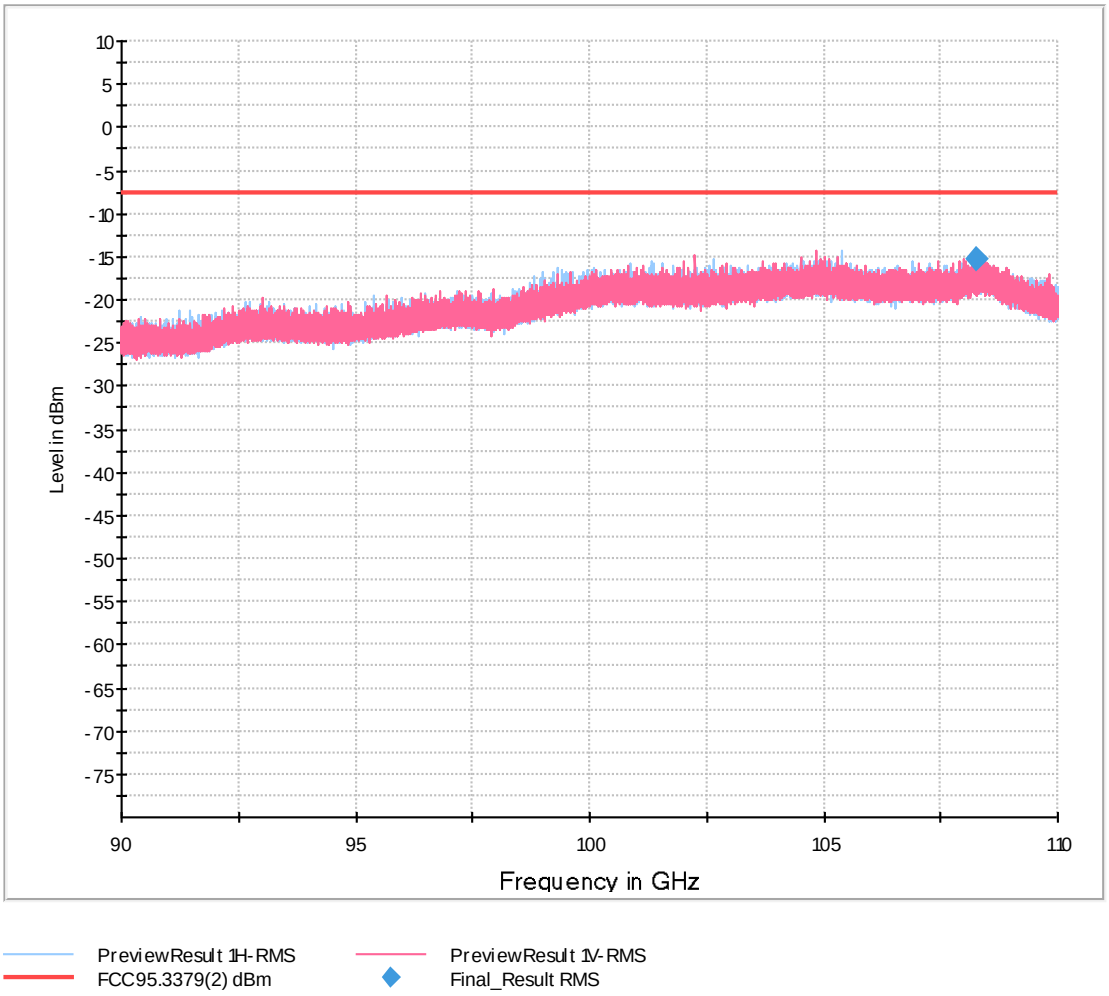


Product Service



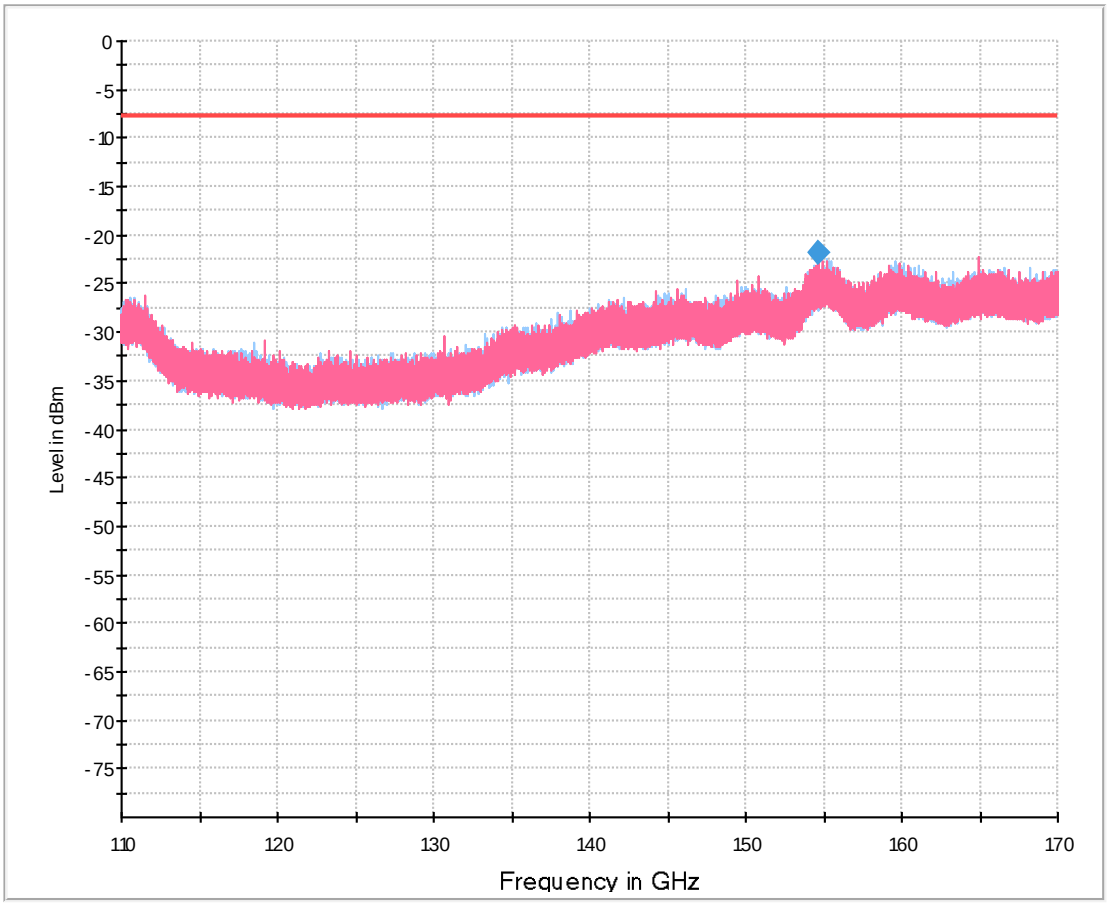
Frequency MHz	RMS dBm	Limit dBm	Margin dB	Bandwidth kHz	Height cm	Pol	Azimuth deg	Corr. dB
62654.000000	-16.00	-7.70	8.30	1000	150.0	V	73.0	-47
76645.000000	-3.67			1000	150.0	H	186.0	-47

Product Service



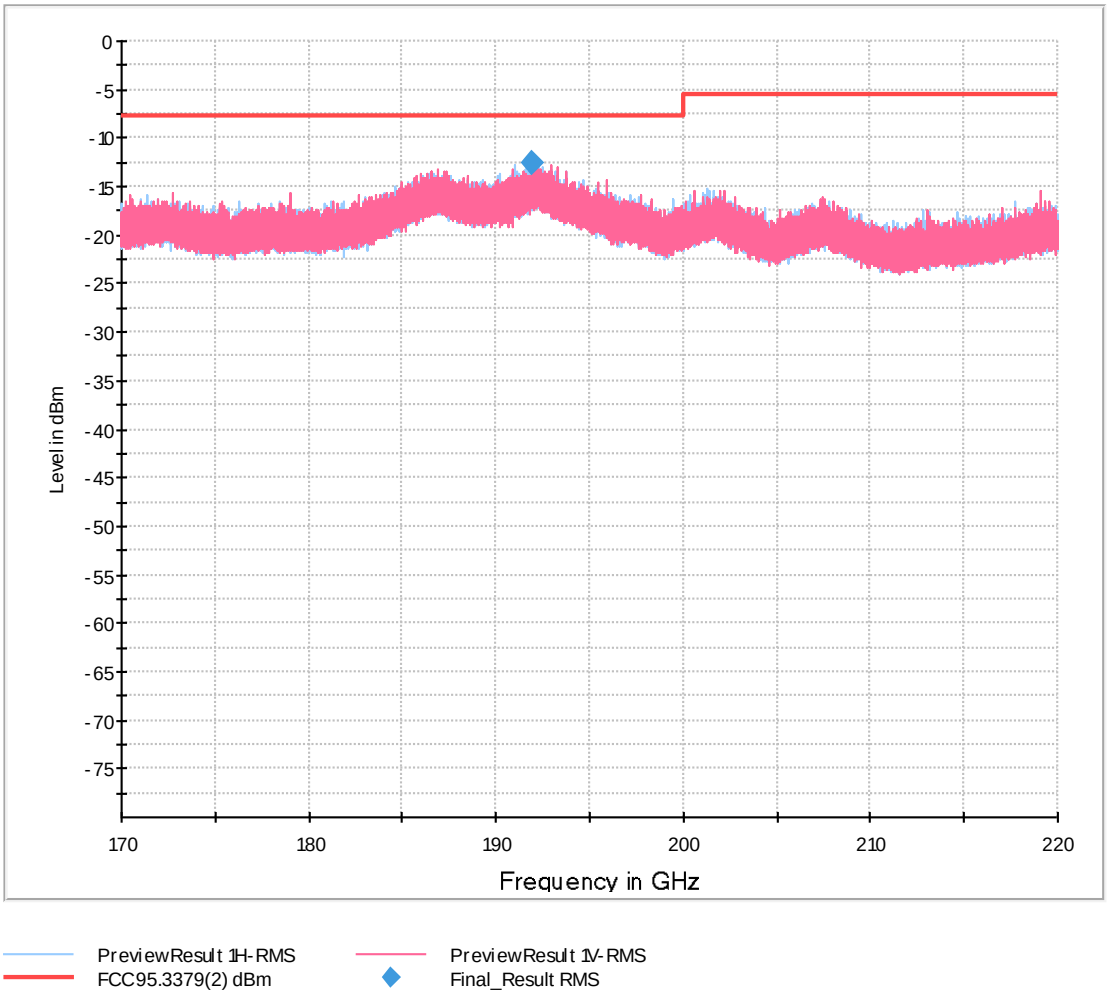
Frequency MHz	*RMS dBm*	*Limit dBm*	*Margin dB*	*Bandwidth kHz*	*Height cm*	*Pol*	*Azimuth deg*	*Corr. dB*
108275.500000	-15.21	-7.71	7.51	1000	150.0	H	232.0	-45

Product Service



Frequency MHz	RMS dBm	Limit dBm	Margin dB	Bandwidth kHz	Height cm	Pol	Azimuth deg	Corr. dB
154638.500000	-21.85	-7.71	14.14	1000	150.0	V	153.0	-55

Product Service



Frequency MHz	RMS dBm	Limit dBm	Margin dB	Bandwidth kHz	Height cm	Pol	Azimuth deg	Corr. dB
191952.000000	-12.54	-7.71	4.84	1000.000	150.0	V	280.0	-50

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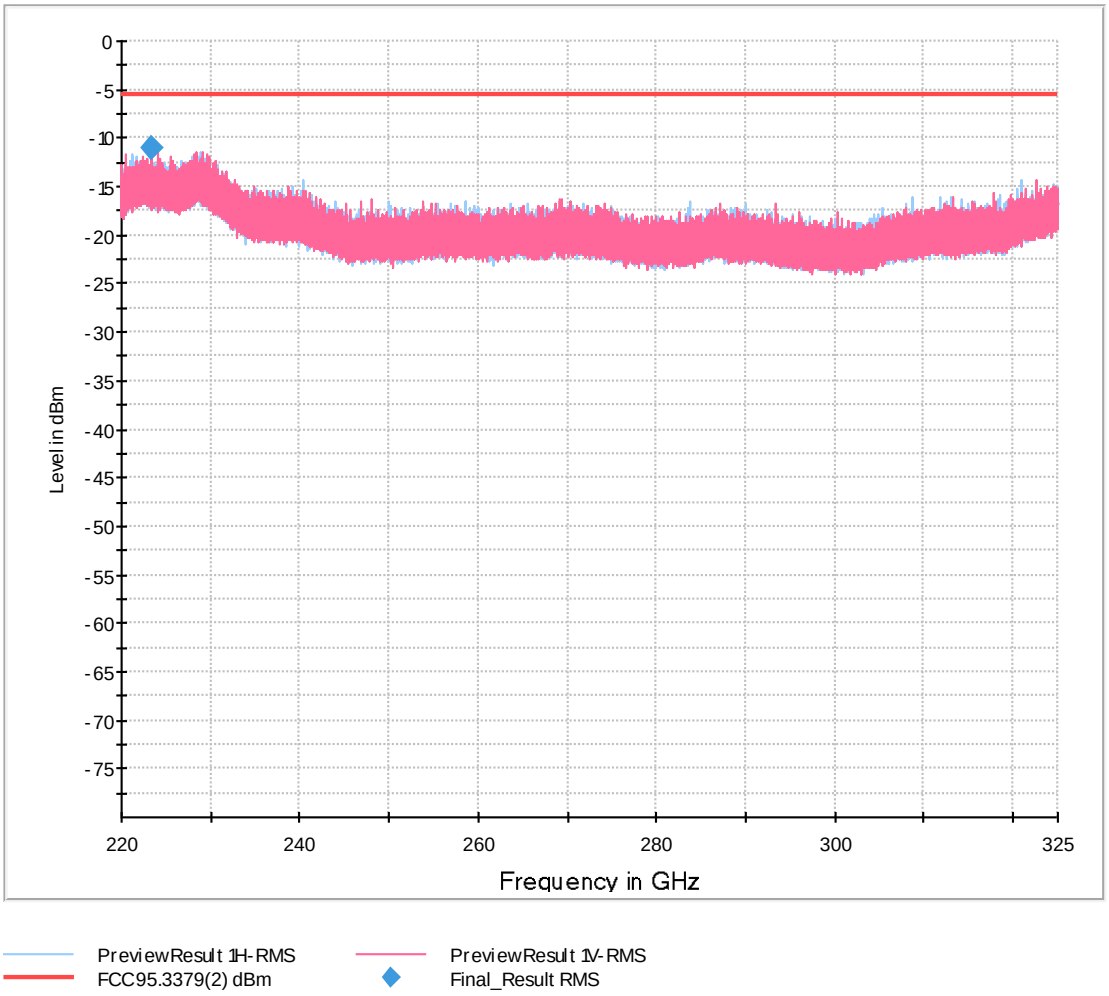


Frequency MHz	*RMS dBm*	*Limit dBm*	*Margin dB*	*Bandwidth kHz*	*Height cm*	*Pol*	*Azimuth deg*	*Corr. dB*
223375.225000	-11.00	-5.49	5.51	1000	150.0	V	19.0	-52

Product Service

2.3.8 Test Location and Test Equipment

The test was carried out in semi anechoic room, No. 11 and fully anechoic room, No. 2

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Due
EMI test receiver	Rohde & Schwarz	ESW44	39897	12	2023-04-30
Signal and Spectrum Analyzer	Rohde & Schwarz	FSW43	54396	12	2023-04-30
Waveguide Mixer	Rohde & Schwarz	FS-Z60	25949	36	2023-02-28
Waveguide Mixer	Rohde & Schwarz	FS-Z90	25850	36	2023-02-28
Waveguide Mixer	Rohde & Schwarz	FS-Z110	25851	36	2023-02-28
Waveguide Mixer	Rohde & Schwarz	FS-Z170	22553	36	2023-02-28
Waveguide Mixer	Rohde & Schwarz	FS-Z220	36954	36	2023-02-28
Waveguide Mixer	Rohde & Schwarz	FS-Z325	36955	36	2023-02-28
Loop antenna	Schwarzbeck	FMZB 1519 B	44334	36	2023-01-30
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	19918	36	2025-10-31
Double ridged horn antenna	Rohde & Schwarz	HF907	40089	24	2024-10-31
Horn antenna					
Horn antenna					
Horn antenna	Flann	24240-20	19946		
Horn antenna	Flann	26240-20	27898		
Horn antenna	Flann	27240-20	27899		
Horn antenna	ELVA-1	SGPH-D	58442		
Horn antenna	Flann	30240-20	37863		
Horn antenna	Flann	32240-20	37864		

Table 12

Product Service

2.4 Bandwidth of Signal

2.4.1 Specification Reference

FCC 47 CFR Part 15 E, Clause 15.503(d)

2.4.2 Equipment under Test and Modification State

SRR6PB2; S/N 0002; Modification State 0

2.4.3 Date of Test

2022-12-01

2.4.4 Environmental Conditions

Ambient Temperature	22 °C
Relative Humidity	37 %

2.4.5 Specification Limits

Fundamental emissions must be contained within the frequency band 76 – 81 GHz during all conditions of operation. Equipment is presumed to operate over the temperature range -20 to +55 degrees Celsius with an input voltage variation of 85 % to 115 % of rated input voltage.

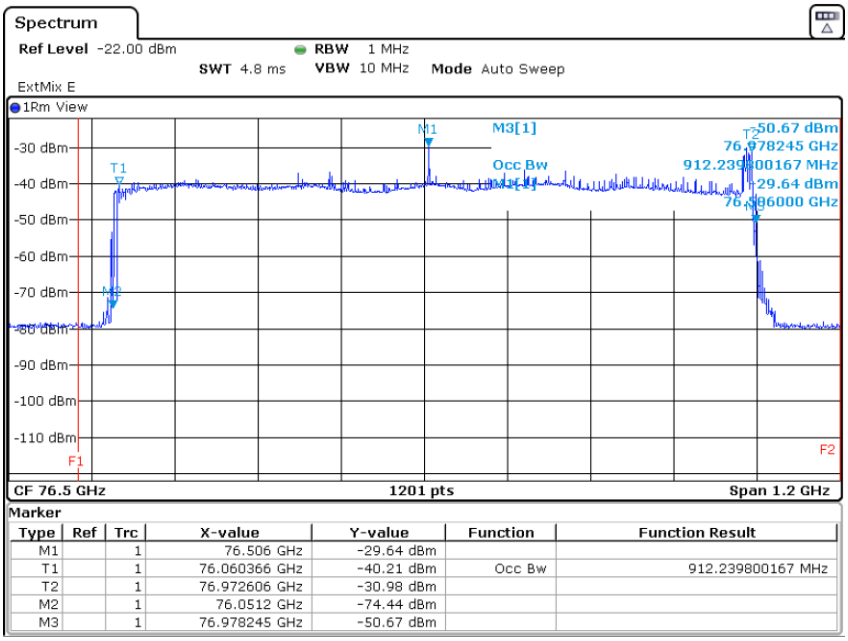
2.4.6 Test Method

The test was performed according to ANSI C63.10, clauses 6.9 and 10.1
See section 2.3 of this test report for details.

Product Service

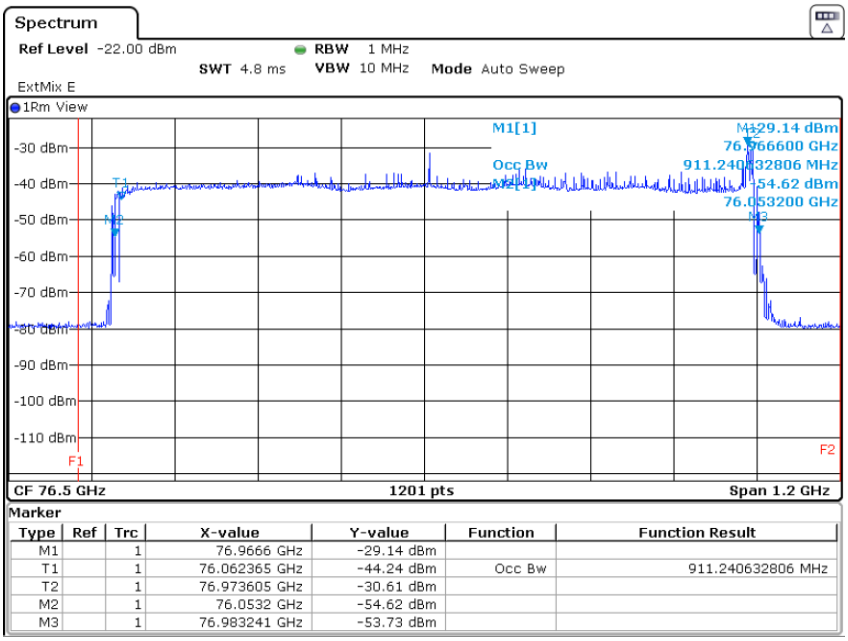
2.4.7 Test Results

On all tested voltages and temperatures, the Occupied Bandwidth (99 %) was within the frequency range 76 to 77 GHz and so, within the designated frequency band. See plots for details:



Date: 1.DEC.2022 10:06:41

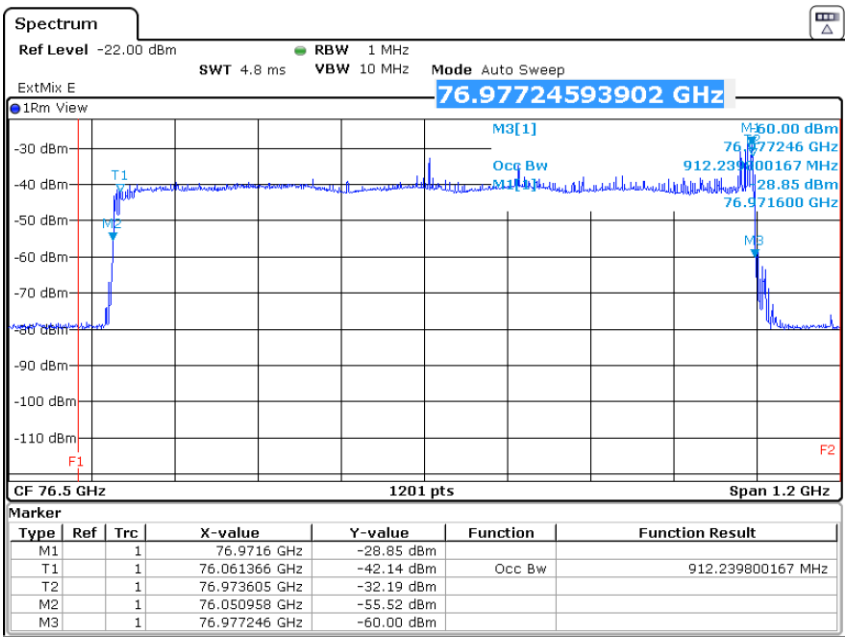
-20 °C, 12 V



Date: 1.DEC.2022 10:35:15

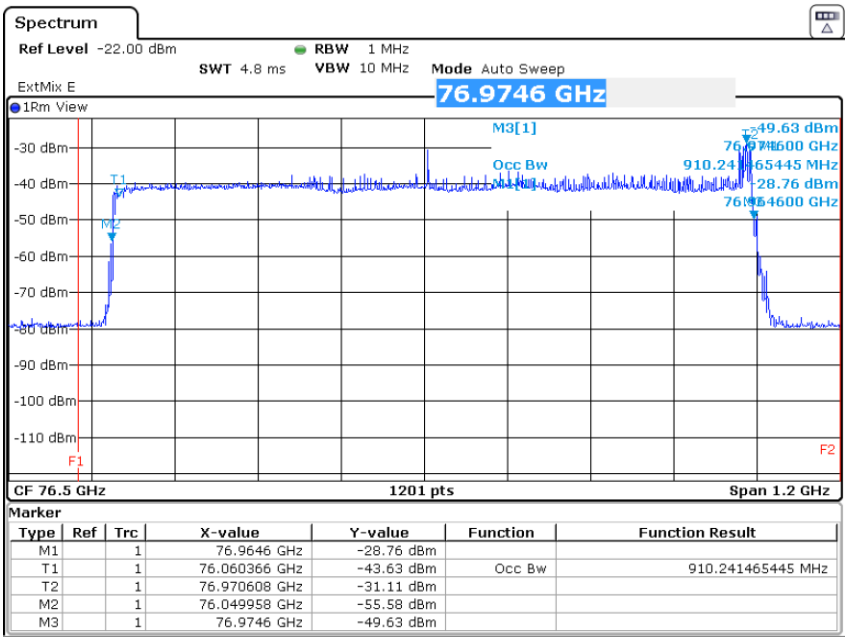
-10 °C, 12 V

Product Service



Date: 1.DEC.2022 10:59:40

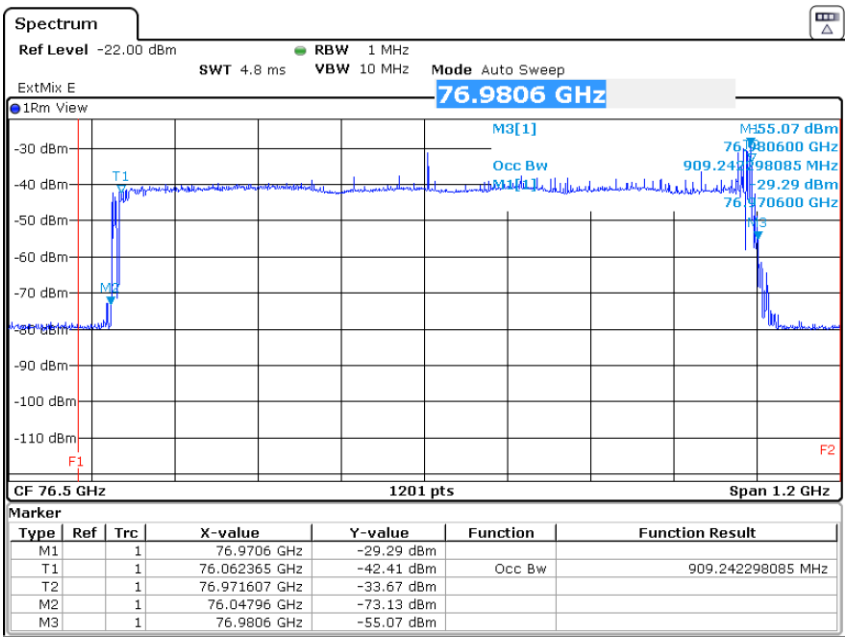
0 °C, 12 V



Date: 1.DEC.2022 11:29:59

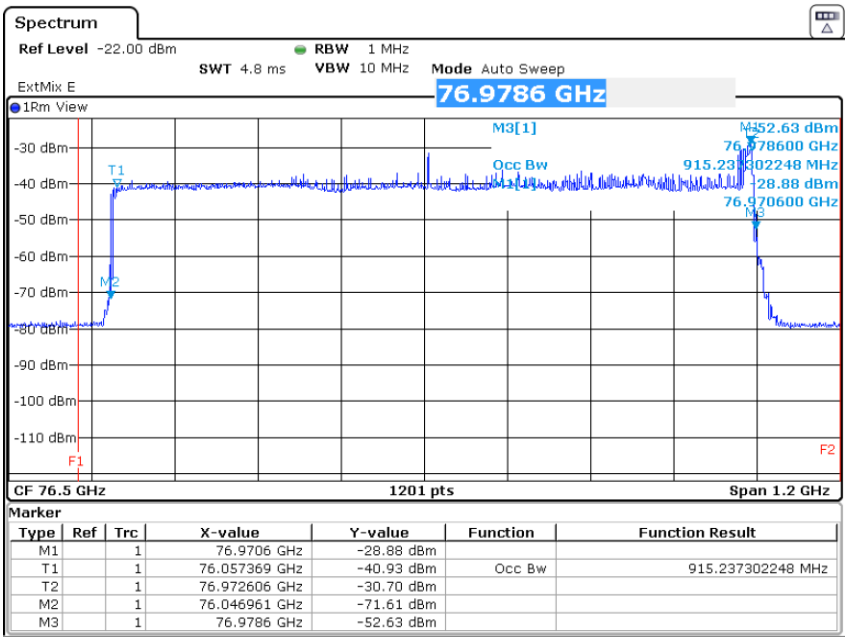
10 °C, 12 V

Product Service



Date: 1.DEC.2022 12:17:55

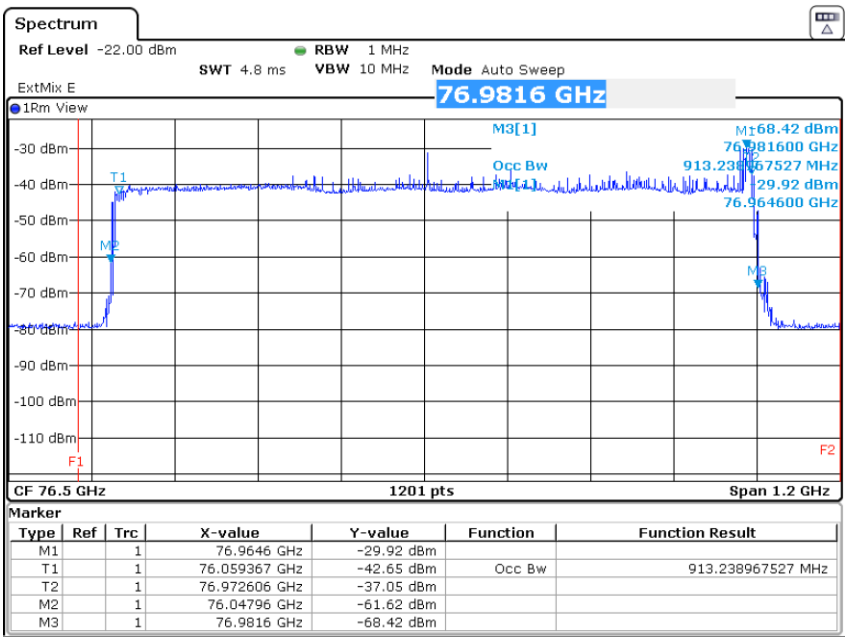
20 °C, 10 V



Date: 1.DEC.2022 12:16:20

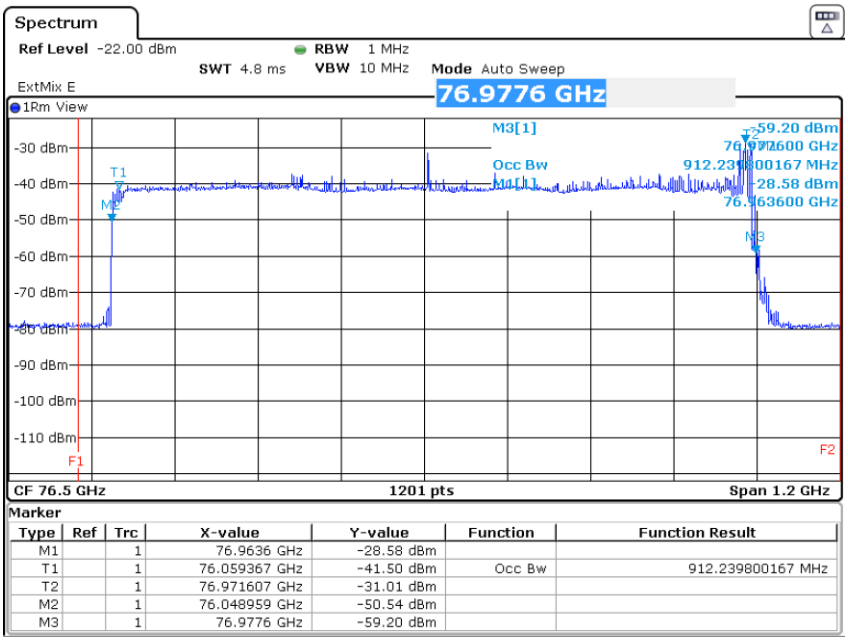
20 °C, 12 V

Product Service



Date: 1.DEC.2022 12:19:42

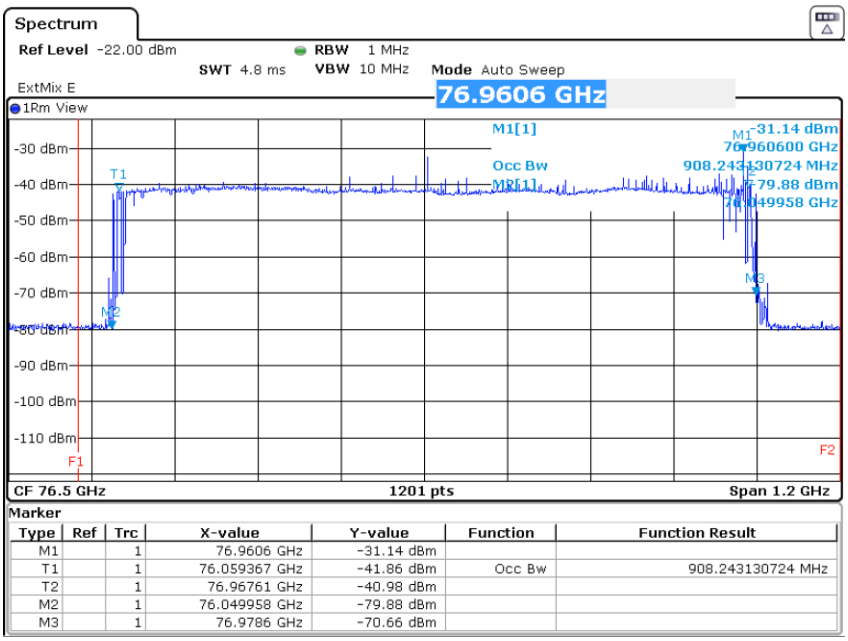
20 °C, 14 V



Date: 1.DEC.2022 13:05:29

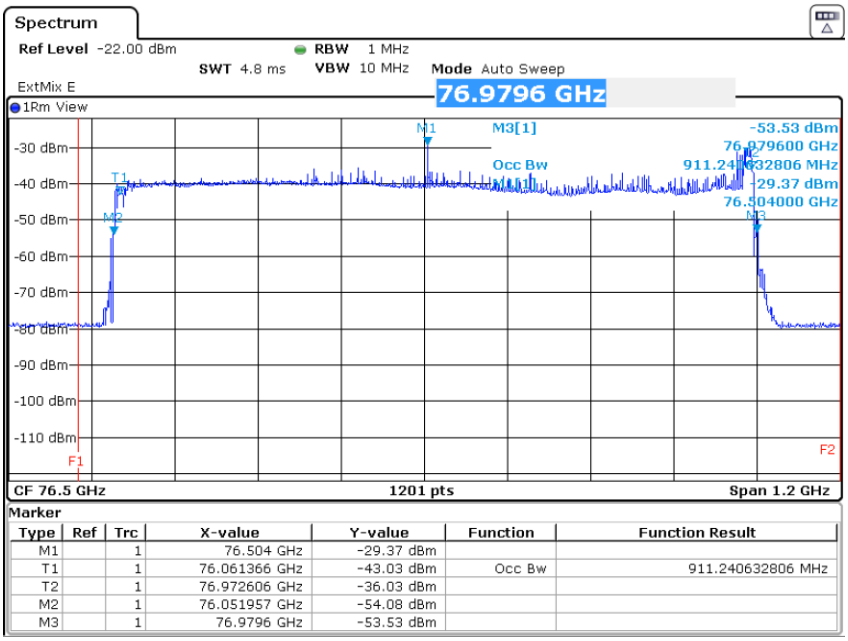
30 °C, 12 V

Product Service



Date: 1.DEC.2022 13:18:30

40 °C, 12 V



Date: 1.DEC.2022 13:59:47

50 °C, 12 V

Product Service

2.4.8 Test Location and Test Equipment

The test was carried out in unshielded radio laboratory

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Due
Signal and Spectrum Analyzer	Rohde & Schwarz	FSV40	20219	24	2024-02-29
Waveguide Mixer	Rohde & Schwarz	FS-Z90	25850	36	2023-03-28
Horn Antenna	Flann	26240-20	37898		
Temperature test chamber	Feutron	KPK200-2	19868	24	2023-02-28

Product Service

3 Measurement Uncertainty

For a 95% confidence level, the measurement uncertainties for defined systems are:

Radio Interference Emission Testing		
Test Name	*kp*	*Expanded Uncertainty*
Conducted Voltage Emission		
9 kHz to 150 kHz (50Ω/50µH AMN)	2	± 3.8 dB
150 kHz to 30 MHz (50Ω/50µH AMN)	2	± 3.4 dB
100 kHz to 200 MHz (50Ω/5µH AMN)	2	± 3.6 dB
Discontinuous Conducted Emission		
9 kHz to 150 kHz (50Ω/50µH AMN)	2	± 3.8 dB
150 kHz to 30 MHz (50Ω/50µH AMN)	2	± 3.4 dB
Conducted Current Emission		
9 kHz to 200 MHz	2	± 3.5 dB
Magnetic Fieldstrength		
9 kHz to 30 MHz (with loop antenna)	2	± 3.9 dB
9 kHz to 30 MHz (large-loop antenna 2 m)	2	± 3.5 dB
Radiated Emission		
30 MHz to 300 MHz	2	± 4.9 dB
300 MHz to 1 GHz	2	± 5.0 dB
1 GHz to 6 GHz	2	± 4.6 dB
Test distance 10 m		
30 MHz to 300 MHz	2	± 4.9 dB
300 MHz to 1 GHz	2	± 4.9 dB
The expanded uncertainty reported according to to CISPR16-4-2: 2011 + A1 + A2 + Cor1 is based on a standard uncertainty multiplied by a coverage factor of kp = 2, providing a level of confidence of p = 95.45%		

Table 13 Measurement uncertainty based on CISPR 16-4-2

Product Service

Radio Interference Emission Testing		
Test Name	*kp*	*Expanded Uncertainty*
Occupied Bandwdith	2	± 5 %
Conducted Power		
9 kHz ≤ f < 30 MHz	2	± 1.0 dB
30 MHz ≤ f < 1 GHz	2	± 1.5 dB
1 GHz ≤ f ≤ 40 GHz	2	± 2.5 dB
1 MS/s power sensor (TS8997)	2	± 1.5 dB
Occupied Bandwidth	2	± 5 %
Power Spectral Density	2	± 3.0 dB
Radiated Power		
25 MHz – 6 GHz	1.96	±4.4 dB
1 GHz – 18 GHz	1.96	±4.7 dB
18 GHz – 40 GHz	1.96	±4.9 dB
40 GHz – 325 GHz	1.96	±6.1 dB
Conducted Spurious Emissions	2	± 3.0 dB
Radiated Spurious Emissions	2	± 6.0 dB
Voltage		
DC	2	± 1.0 %
AC	2	± 2.0 %
Time (automatic)	2	± 5 %
Frequency	2	± 10^{-7}
The expanded uncertainty reported according to to ETSI TR 100 028:2001 is based on a standard uncertainty multiplied by a coverage factor of kp = 2, providing a level of confidence of p = 95.45%		

Table 14 Measurement uncertainty based on ETSI TR 100 028

The measurement uncertainty in the laboratory is less than or equal to the maximum measurement uncertainty according to CISPR16-4-2: 2011 + A1 + A2 + Cor1 (U_{CISPR}) and as specified in the test report below. This normative regulation means that the measured value is also the value to be assessed in relation to the limit value.

Test Name	*Expanded Uncertainty*
Occupied Bandwidth	±5 %
Conducted Power	
9 kHz ≤ f < 30 MHz	±1.0 dB
30 MHz ≤ f < 1 GHz	±1.5 dB
1 GHz ≤ f ≤ 40 GHz	±2.5 dB
1 MS/s power sensor (2.4 / 5 GHz band)	±1.5 dB
Power Spectral Density	±3.0 dB
Radiated Power	
25 MHz – 26.5 GHz	±6.0 dB
26.5 GHz – 66 GHz	±8.0 dB
40 GHz – 325 GHz	±10.0 dB
Conducted Spurious Emissions	±3.0 dB
Radiated Field Strength 9 kHz – 40 GHz	±6.0 dB
Voltage	
DC	± 1.0 %
AC	± 2.0 %
Time (automatic)	± 5 %
Frequency	± 10^{-7}

Table 15 Decision Rule: Maximum allowed measurement uncertainty