

Test Report

Test Report No.: CQC-IVTS-2023-00145

Product Name AIR PURIFIER

Model Number SCA14000-2x4, SCA14000-2x2

Applicant Surgically Clean Air Inc.

Approval Types FCC ID: 2A24USCA14000
IC: 27694-SCA14000

CQC Internet of Vehicles Technical Service (Shenzhen) Co., Ltd.

**National Quality Inspection and Testing Center for Internet of Vehicles
Products**



TEST REPORT DECLARATION

Equipment under Test : AIR PURIFIER

Model /Type : SCA14000-2x4, SCA14000-2x2

Listed Models : N/A

Applicant : Surgically Clean Air Inc.

Address : 6300 Viscount Rd #1a, Mississauga, ON L4V 1H3

Manufacturer : Surgically Clean Air Inc.

Address : 6300 Viscount Rd #1a, Mississauga, ON L4V 1H3

The EUT described above is tested by CQC Internet of Vehicles Technical Service (Shenzhen) Co., Ltd. to determine the maximum emissions from the EUT. CQC Internet of Vehicles Technical Service (Shenzhen) Co., Ltd. is assumed full responsibility for the accuracy of the test results.

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Contents

1.	TEST STANDARDS	5
2.	SUMMARY	6
2.1.	General Remarks	6
2.2.	Product Description*	6
2.3.	EUT operation mode	6
2.4.	Modifications	6
2.5.	Test Item (Equipment Under Test) Description*	6
2.6.	Auxiliary Equipment (AE) Description	7
2.7.	Test Item Set-ups Description	7
2.8.	Test Conditions*	7
2.9.	Additional Information	7
2.10.	Test Location	7
2.11.	Abnormalities from Standard Conditions	7
2.12.	Possible verdicts of the results	7
2.13.	Formula for determination of correction values (E_c)	8
2.14.	Reporting Statements of Conformity – Decision Rule	8
3.	TEST ENVIRONMENT	9
3.1.	Address of the test laboratory	9
3.2.	Environmental conditions	9
3.3.	Test Description	9
3.4.	Statement of the measurement uncertainty	10
3.5.	Equipments Used during the Test	10
4.	TEST CONDITIONS AND RESULTS	11
4.1.	Field Strength of Emissions	11
4.1.1.	LIMITS	11
4.1.2.	TEST CONFIGURATION	11
4.1.3.	TEST PROCEDURE	12
4.1.4.	FIELD STRENGTH CALCULATION	15
4.1.5.	TEST RESULTS	15
4.2.	AC Conducted Emission	25
4.2.1.	LIMITS OF DISTURBANCE	25
4.2.2.	TEST CONFIGURATION	25
4.2.3.	TEST PROCEDURE	25
4.2.4.	DISTURBANCE CALCULATION	25
4.2.5.	TEST RESULTS	26
4.3.	Occupied Bandwidth (99% & 20dB Bandwidth)	30
4.3.1.	LIMITS	30
4.3.2.	TEST CONFIGURATION	30
4.3.3.	TEST PROCEDURE	30
4.3.4.	TEST RESULTS	30
4.4.	Maximum E.I.R.P. Peak / Transmitter Output Power	32
4.4.1.	LIMITS	32
4.4.2.	TEST CONFIGURATION	33
4.4.3.	TEST PROCEDURE	33
4.4.4.	TEST RESULTS	33
4.5.	Frequency Stability	35
4.5.1.	LIMITS	35
4.5.2.	TEST CONFIGURATION	35
4.5.3.	TEST PROCEDURE	35
4.5.4.	TEST RESULTS	35
4.6.	Antenna Requirement*	36
4.6.1.	REQUIREMENT	36
4.6.2.	VERDICT*	36

<u>5.</u>	<u>TEST SET-UP PHOTOS OF THE EUT</u>	<u>37</u>
<u>6.</u>	<u>EXTERNAL AND INTERNAL PHOTOS OF THE EUT</u>	<u>38</u>

1. TEST STANDARDS

The tests were performed according to following standards: The equipment under test (EUT) has been tested at CQC-IVTS's (own or subcontracted) laboratories according to the leading reference documents giving table below:

No	Identify	Document Title	Version/Date
1	47 CFR Part 15.255	Operation within the band 57-71 GHz	4/11/2023
2	RSS-210 Annex J	Licence-Exempt Radio Apparatus: Category I Equipment - Devices operating in the band 57-71 GHz	Issue 10/December 2019
3	RSS-Gen	General Requirements for Compliance of Radio Apparatus	Issue 5/ April 2018
4	ANSI C63.4	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2014
5	ANSI C63.10	American National Standard for Testing Unlicensed Wireless Devices	2013

2. SUMMARY

2.1. General Remarks

Date of receipt of test sample	:	March 29, 2023
Testing commenced on	:	April 6, 2023
Testing concluded on	:	April 19, 2023

2.2. Product Description*

Product Name:	AIR PURIFIER
Model/Type reference:	SCA14000-2x4, SCA14000-2x2
HMN:	-/-
PMN:	AIR PURIFIER
HVIN:	SCA14000-2x4, SCA14000-2x2
FVIN:	-/-
Hardware Version:	-/-
Software Version:	-/-
Frequency Range:	57 – 64 GHz
Number of Channels:	1
Modulation Type:	FMCW
Antenna:	Integrated patch antenna
Antenna Gain:	Maximum peak value is 6.00 dBi
Specified Rated Output Power E.R.I.P.):	Maximum output power is -4.00dBm
Power Supply:	AC 120V/60Hz
IC classification:	Motion sensor device
Emission designator:	N0N
Model Difference Declaration	Refer to Annex A: model difference declaration letter

*: declared by the applicant, CQC-IVTS not responsible for accuracy.

2.3. EUT operation mode

EUT operating mode no	Description of operating modes	Additional information
op. 1	Continuously transmitting and receiving mode	Carrier modulation (normal mode). 57 – 64 GHz, a continuous wave with 100% duty cycle

*: declared by the applicant

2.4. Modifications

No modifications were implemented to meet testing criteria

2.5. Test Item (Equipment Under Test) Description*

Short designation	EUT Name	EUT Description	Serial number	Hardware status	Software status
EUT A	SCA14000-2x4	AIR PURIFIER	-/-	-/-	-/-
EUT B	SCA14000-2x2	AIR PURIFIER	-/-	-/-	-/-

*: declared by the applicant. According to customers information EUTs A and B contains same Radio transmitter devices.

2.6. Auxiliary Equipment (AE) Description

AE short designation	EUT Name (if available)	EUT Description	Serial number (if available)	Software (if used)
AE 1	-/-	Power Lines	-/-	-/-

*: declared by the applicant.

2.7. Test Item Set-ups Description

set. 1	EUT A + AE 1	EUT operating mode 1
set. 2	EUT B + AE 1	EUT operating mode 2

2.8. Test Conditions*

Temperature, [°C]		Voltage, [V]	
T _{nom}	20.0	V _{nom}	AC 120V
T _{min}	-20.0	V _{min}	AC 102V
T _{max}	50.0	V _{max}	AC 138V

*: declared by the applicant

2.9. Additional Information

Test items differences	None
Additional application considerations to test a component or sub-assembly	none

2.10. Test Location

Location 1

Company:	CQC Internet of Vehicles Technical Service (Shenzhen) Co., Ltd.
Address:	Building G5, TCL International E City, Xili Street, Nanshan District, Shenzhen, China
Post code:	518112
Contact Person:	Wenliang Li
Telephone:	+86-755-8618 9654
e-Mail:	liwenliang@cqc.com.cn

2.11. Abnormalities from Standard Conditions

None

2.12. Possible verdicts of the results

Test sample meets the requirements	P (PASS) ± the measured value is below the acceptance limit, AL = TL
Test sample does not meet the requirements	F (FAIL) ± the measured value is above the acceptance limit, AL = TL
Test case does not apply to the test sample	N/A (Not applicable)
Test case not performed	N/P (Not performed)

2.13. Formula for determination of correction values (E_C)

$$E_C = E_R + AF + C_L + D_F - G_A \quad (1)$$

$$M = L_T - E_C \quad (2)$$

E_C = Electrical field $\pm$ corrected value

E_R = Receiver reading

M = Margin

L_T = Limit

AF = Antenna factor

C_L = Cable loss

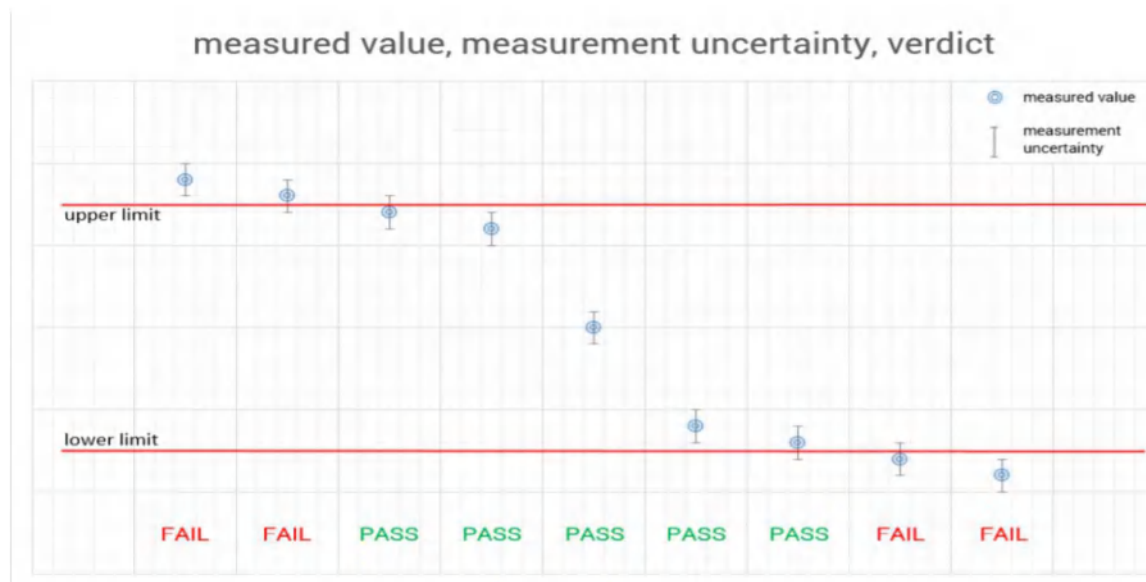
D_F = Distance correction factor (if used)

G_A = Gain of pre-amplifier (if used)

All units are dB-units, positive margin means value is below limit.

2.14. Reporting Statements of Conformity – Decision Rule

Only the measured values related to their corresponding limits will be used to decide whether the equipment under test meets the requirements of the test standards listed. The measurement uncertainty is mentioned in this test report, see chapter 9, but is not taken into account - neither to the limits nor to the measurement results. Measurement results with a smaller margin to the corresponding limits than the measurement uncertainty have a potential risk of more than 5% that the decision might be wrong."



3. TEST ENVIRONMENT

3.1. Address of the test laboratory

CQC Internet of Vehicles Technical Service (Shenzhen) Co., Ltd.

Building G5, TCL International E City, Xili Street, Nanshan District, Shenzhen, China

CQC-IVTS A2LA Certification Number: 6645.01;

3.2. Environmental conditions

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

Normal Temperature:	25°C
Lative Humidity	55 %
Air Pressure	989 hPa

3.3. Test Description

Test Specification Clause	Test Case	Temperature Condition	Power Supply	Pass	Fail	NA	NP	Results
§15.255(b) RSS-210 Annex J.2	Maximum E.I.R.P	Nominal	Nominal	☒	☐	☐	☐	
§15.215 RSS-Gen Clause 6.6	Occupied bandwidth (20dB)	Nominal	Nominal	☒	☐	☐	☐	
§15.215 RSS-Gen Clause 6.7	Occupied bandwidth (99%)	Nominal	Nominal	☒	☐	☐	☐	
§15.255(c) §15.209 RSS-210 Annex J.3 RSS-Gen Clause 8.9	Spurious Emissions	Nominal	Nominal	☒	☐	☐	☐	
§15.255(e) RSS-210 Annex J.6 RSS-Gen Clause 8.11	Frequency Stability	Nominal	Nominal	☒	☐	☐	☐	
§15.207 RSS-Gen Clause 8.8	AC power-line conducted emissions limits	Nominal	Nominal	☒	☐	☐	☐	
§15.203 RSS-Gen Clause 6.8	Antenna requirement	-/-	-/-	☒	☐	☐	☐	

Remark:

1. NA means “not applicable”; NP means Not Performed;
2. The measurement uncertainty is not included in the test result.

Model SCA14000-2x4 and SCA14000-2x2 share the same Radio transmitter while only difference in overall size and several components, after pre-chck E.I.R.P. at both Model SCA14000-2x4 and SCA14000-2x2, measure description as following table;

Description	Model: SCA14000-2x4	Model: SCA14000-2x2
Maximum E.I.R.P	☒	☒
Occupied bandwidth (20dB)	☒	☐
Occupied bandwidth (99%)	☒	☐
Frequency Stability	☒	☐
AC power-line conducted emissions limits	☒	☒
Spurious Emissions (30 MHz – 1 GHz)	☒	☒
Spurious Emissions (1 GHz – 18 GHz)	☒	☒

Spurious Emissions (18 GHz – 40 GHz)	☒	☐
Spurious Emissions (40 GHz – 220 GHz)	☒	☐

3.4. Statement of the 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 CQC Internet of Vehicles Technical Service (Shenzhen) Co., Ltd. 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.

Hereafter the best measurement capability for CQC Internet of Vehicles Technical Service (Shenzhen) Co., Ltd.:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.90 dB	(1)
Radiated Emission	1~6GHz	4.20 dB	(1)
Radiated Emission	6~18GHz	4.50 dB	(1)
Radiated Emission	18-40GHz	5.42 dB	(1)
Radiated Emission	Above 40 GHz	5.50 dB	(1)
Conducted Disturbance	0.15~30MHz	3.30 dB	(1)

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

3.5. Equipments Used during the Test

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Equipment No.	Last Cal.	Cal.Due
1	EMI Test Receiver	R&S	ESW26	CQC-IVTS-E-JC02	2022/08/25	2023/08/24
2	Artificial Mains	R&S	ENV216	CQC-IVTS-E-JC16	2022/08/25	2023/08/24
3	Artificial Mains	R&S	ENV4200	CQC-IVTS-E-JC17	2022/08/25	2023/08/24
4	EMI Test Software	R&S	EMC32	N/A	N/A	N/A

Radiated Emission						
Item	Test Equipment	Manufacturer	Model No.	Equipment No.	Last Cal.	Cal.Due
1	EMI Test Receiver	R&S	ESW26	103003	2022/08/25	2023/08/24
2	Spectrum Analyzer	R&S	FSW43	10182	2022/08/25	2023/08/24
3	Ultra-Broadband Antenna	Schwarzbeck	VULB9168	1291	2021/09/05	2022/09/04
4	Horn Antenna	ETS-Lindgren	3117	102732	2021/09/05	2022/09/04
5	Amplifier	R&S	SCU01F	100369	2022/08/25	2023/08/24
6	Amplifier	R&S	SCU18F	100868	2022/08/25	2023/08/24
7	Amplifier	R&S	SCU26F	100781	2022/08/25	2023/08/24
8	Horn Antenna	A-INFO	LB-180500H	211008100089	2021/09/05	2022/09/04
9	EMI Test Software	R&S	EMC32	N/A	N/A	N/A
10	TC-RX50	Tonscond	Receive Unit	1544	N/A	N/A
11	TC-RX75	Tonscond	Receive Unit	1545	N/A	N/A
12	TC-RX110	Tonscond	Receive Unit	1546	N/A	N/A
13	TC-RX170	Tonscond	Receive Unit	1547	N/A	N/A
14	TC-RX240	Tonscond	Receive Unit	1548	N/A	N/A
15	TC-RX40	Tonscond	Receive Unit	1543	N/A	N/A
16	Signal Generator	R&S	SMW200A	170436	2022/08/25	2023/08/24
17	Thermal chamber	ESPEC	GFS-800-15	0050-001161	2022/07/26	2023/07/25

4. TEST CONDITIONS AND RESULTS

4.1. Field Strength of Emissions

4.1.1. LIMITS

(a) According to § 15.255(d) and RSS-210 J3: Limits on spurious emissions:

- (1) The power density of any emissions outside the 57–71 GHz band shall consist solely of spurious emissions.
- (2) Radiated emissions below 40 GHz shall not exceed the general limits in [§ 15.209](#) and RSS-Gen.
- (3) Between 40 GHz and 200 GHz, the level of these emissions shall not exceed 90 pW/cm² at a distance of 3 meters.
- (4) The levels of the spurious emissions shall not exceed the level of the fundamental emission.

Frequency (MHz)	Distance (Meters)	Radiated (dBμV/m)	Radiated (μV/m)
0.009-0.49	3	$20\log(2400/F(\text{KHz}))+40\log(300/3)$	2400/F(KHz)
0.49-1.705	3	$20\log(24000/F(\text{KHz}))+40\log(30/3)$	24000/F(KHz)
1.705-30	3	$20\log(30)+40\log(30/3)$	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

(b) Limits conversion:

$$P[\text{dBm}] = 10 \times \log_{10} (4 \times \pi \times d^2 \times P [\text{W/cm}^2])$$

d = distance of the limit defined in m

when d = 3m and P = 90 pW/cm²,

$$P [\text{dBm}] = 10 \times \log_{10} (4 \times 3.14 \times 3^2 \times 10^4 \times 90 \times 10^{-9}) = -10\text{dBm}$$

(c) Measure distance conversion factor:

$$P [\text{dB}] = 10 \times \log_{10} (d_{\text{measured}} / d_{\text{reference}})$$

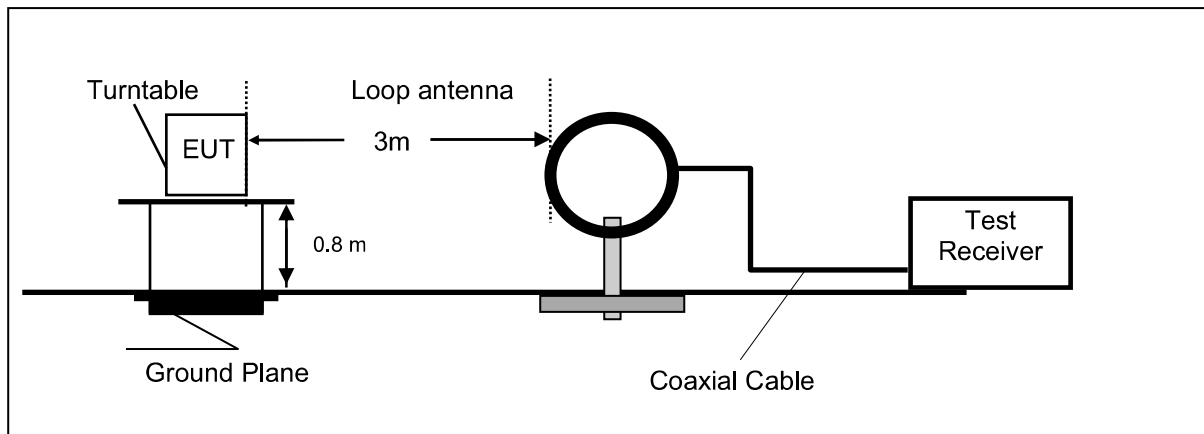
$$= 10 \times \log_{10}(1/3)$$

$$=-5 \text{ dB}$$

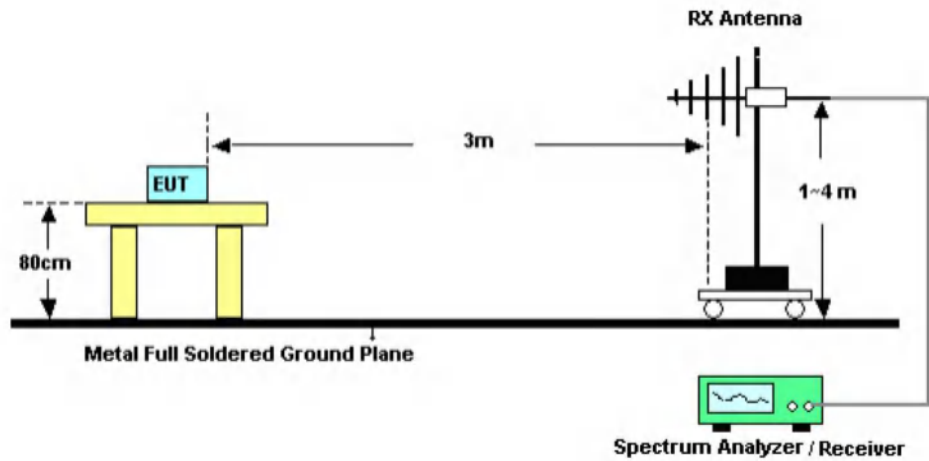
when measured distance is 1m and limit reference distance is 3m.

4.1.2. TEST CONFIGURATION

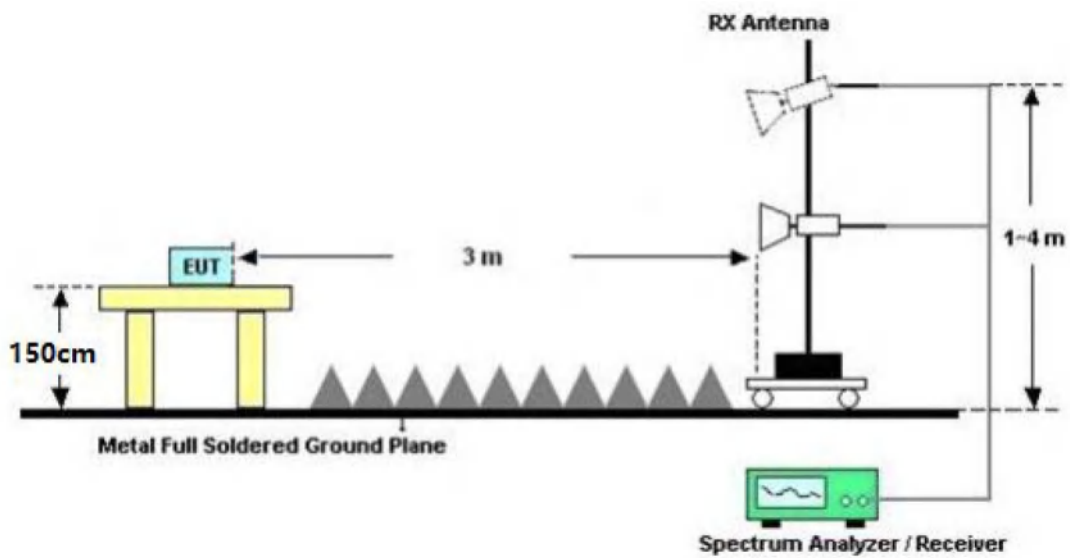
(a) Frequency range 9 KHz – 30MHz



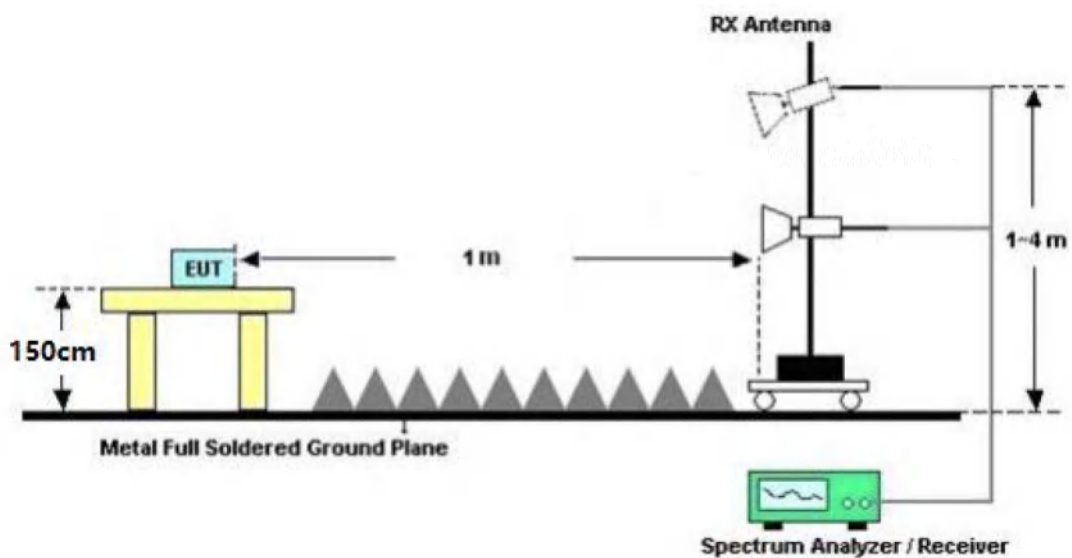
(b) Radiated emission test set-up, frequency range: 30 - 1000MHz



(c) Radiated emission test set-up, frequency range 1GHz – 18 GHz



(d) Radiated emission test set-up, frequency range above 18GHz



4.1.3. TEST PROCEDURE

4.1.3.1 Sequence of testing radiated spurious 9 KHz to 30 MHz

Setup

- The equipment is set up to simulate normal operation mode as described in the user manual or defined by the manufacturer
- If the EUT is a tabletop system, 1.5 m height is used.
- If the EUT is a floor standing device, it is placed directly on the turn table.
- Auxiliary equipment and cables are positioned to simulate normal operation conditions as described in ANSI C63.4.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- Measurement distance is 3m (see ANSI C63.4) – see test details.
- EUT is set into operation.

Premeasurement

- The turntable rotates from 0 degree to 360 degree.
- The antenna height is 1.5m.
- Set RBW = 200 Hz / VBW = 1 KHz, sweep time: Auto
- At each turntable position the analyzer sweeps with position-peak detector to find the maximum of all emissions.

Final measurement

- Identified emissions during the premeasurement are maximized by the software by rotating the turntable from 0 degree to 360 degree.
- The final measurement is done in the position (turntable and elevation) causing the highest emissions with quasi-peak (as described in ANSI C 63.4).
- Final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. A plot with the graph of the measurement and the limit is stored.

4.1.3.2 Sequence of testing radiated spurious 30 MHz to 1 GHz**Setup**

- The equipment is set up to simulate normal operation mode as described in the user manual or defined by the manufacturer
- If the EUT is a tabletop system, 0.8 m height is used, which is placed on the ground plane.
- If the EUT is a floor standing device, it is placed directly on the ground plane.
- Auxiliary equipment and cables are positioned to simulate normal operation conditions as described in ANSI C63.4.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- Measurement distance is 3m (see ANSI C63.4) – see test details.
- EUT is set into operation.

Premeasurement

- The turntable rotates from 0 degree to 360 degree.
- The antenna is polarized vertical and horizontal.
- The antenna height changes from 1m to 4m.
- Set RBW = 120 KHz / VBW = 1 MHz, sweep time: Auto
- At each turntable position the analyzer sweeps with position-peak detector to find the maximum of all emissions.

Final measurement

- The final measurement is performed for at least six highest peaks according to the requirements of the ANSI C63.4.
- Based on antenna and turntable positions at which the peak values are measured the software maximizes the peaks by changing turntable and antenna height between 1 and 4 m.
- The final measurement is done with quasi-peak detector (as described in ANSI C 63.4).
- Final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. A plot with the graph of the measurement and the limit is stored.

4.1.3.3 Sequence of testing radiated spurious 1 GHz to 18 GHz**Setup**

- The equipment is set up to simulate normal operation mode as described in the user manual or defined by the manufacturer
- If the EUT is a tabletop system, 1.5 m height is used.
- If the EUT is a floor standing device, it is placed directly on the turntable.

- Auxiliary equipment and cables are positioned to simulate normal operation conditions as described in ANSI C63.4.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- Measurement distance is 3m (see ANSI C63.4) – see test details.
- EUT is set into operation.

Premeasurement

- The turntable rotates from 0 degree to 360 degree.
- The antenna is polarized vertical and horizontal.
- The antenna height changes from 1m to 4m.
- Set RBW = 1 MHz / VBW = 3 MHz, sweep time: Auto, detector: Peak for Peak, RBW = 1 MHz / VBW = 3 MHz, sweep time: Auto, detector: Average for Average.
- At each turntable position the analyzer sweeps with position-peak detector to find the maximum of all emissions.

Final measurement

- The final measurement is performed for at least six highest peaks according to the requirements of the ANSI C63.4.
- Based on antenna and turntable positions at which the peak values are measured the software maximizes the peaks by changing turntable and antenna height between 1 and 4 m.
- The final measurement is done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector (as described in ANSI C 63.4).
- Final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. A plot with the graph of the measurement and the limit is stored.

4.1.3.4 Sequence of testing radiated spurious above 18 GHz

Setup

- The equipment is set up to simulate normal operation mode as described in the user manual or defined by the manufacturer
- If the EUT is a tabletop system, 1.5 m height is used.
- If the EUT is a floor standing device, it is placed directly on the turntable.
- Auxiliary equipment and cables are positioned to simulate normal operation conditions as described in ANSI C63.4.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- Measurement distance is 1m (see ANSI C63.4) – see test details.
- EUT is set into operation.

Premeasurement

- The turntable rotates from 0 degree to 360 degree.
- The antenna is polarized vertical and horizontal.
- The antenna height changes from 1m to 4m.
- Set RBW = 1 MHz / VBW = 3 MHz, sweep time: Auto, detector: Peak for Peak, RBW = 1 MHz / VBW = 3 MHz, sweep time: Auto, detector: Average for Average.
- At each turntable position the analyzer sweeps with position-peak detector to find the maximum of all emissions.

Final measurement

- The final measurement is performed for at least six highest peaks according to the requirements of the ANSI C63.4.
- Based on antenna and turntable positions at which the peak values are measured the software maximizes the peaks by changing turntable and antenna height between 1 and 4 m.
- The final measurement is done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and RMS detector (as described in ANSI C 63.4).
- All final levels should consider distance conversion factor as format: Final values (3 m) = Measurement values (1 m) + Distance conversion factor
 Distance conversion factor = $20 \times \log_{10}(d/3)$, where d = measurement distance in m
 - Distance conversion factor = $20 \times \log_{10}(1/3) = -10.0$ [dB]
- Final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. A plot with the graph of the measurement and the limit is stored.

4.1.3.5 Sequence of testing radiated spurious above 40 GHz with external mixers

Setup

- The equipment is set up to simulate normal operation mode as described in the user manual or defined by the manufacturer
- If the EUT is a tabletop system, 1.5 m height is used.
- If the EUT is a floor standing device, it is placed directly on the turntable.
- Auxiliary equipment and cables are positioned to simulate normal operation conditions as described in ANSI C63.4.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- Measurement distance is 1m (see ANSI C63.4) – see test details.
- EUT is set into operation.

Premeasurement

- The turntable rotates from 0 degree to 360 degree.
- The antenna with external mixer is polarized vertical and horizontal.
- The antenna height changes from 1m to 4m.
- Set RBW = 1 MHz / VBW = 3 MHz, sweep time: 220s detector: Peak.
- At each turntable position the analyzer sweeps with position-peak detector to find the maximum of all emissions.

Final measurement

- The final measurement is performed for at least six highest peaks according to the requirements of the ANSI C63.4.
- Based on antenna and turntable positions at which the peak values are measured the software maximizes the peaks by changing turntable and antenna height between 1 and 4 m.
- The final measurement is done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and RMS detector (as described in ANSI C 63.4).
- All final levels should consider distance conversion factor as format: Final values (3 m) = Measurement values (1 m) + Distance conversion factor
 Distance conversion factor = $10 \times \log_{10} (d/3)$, where d = measurement distance in m
 - Distance conversion factor = $10 \times \log_{10} (1/3) = -5.0$ [dB]
- Final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. A plot with the graph of the measurement and the limit is stored.

4.1.4. FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS \text{ (dBuV/m)} = RA \text{ (dBuV)} + AF \text{ (dB/m)} + CL \text{ (dB)} - AG \text{ (dB)}$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

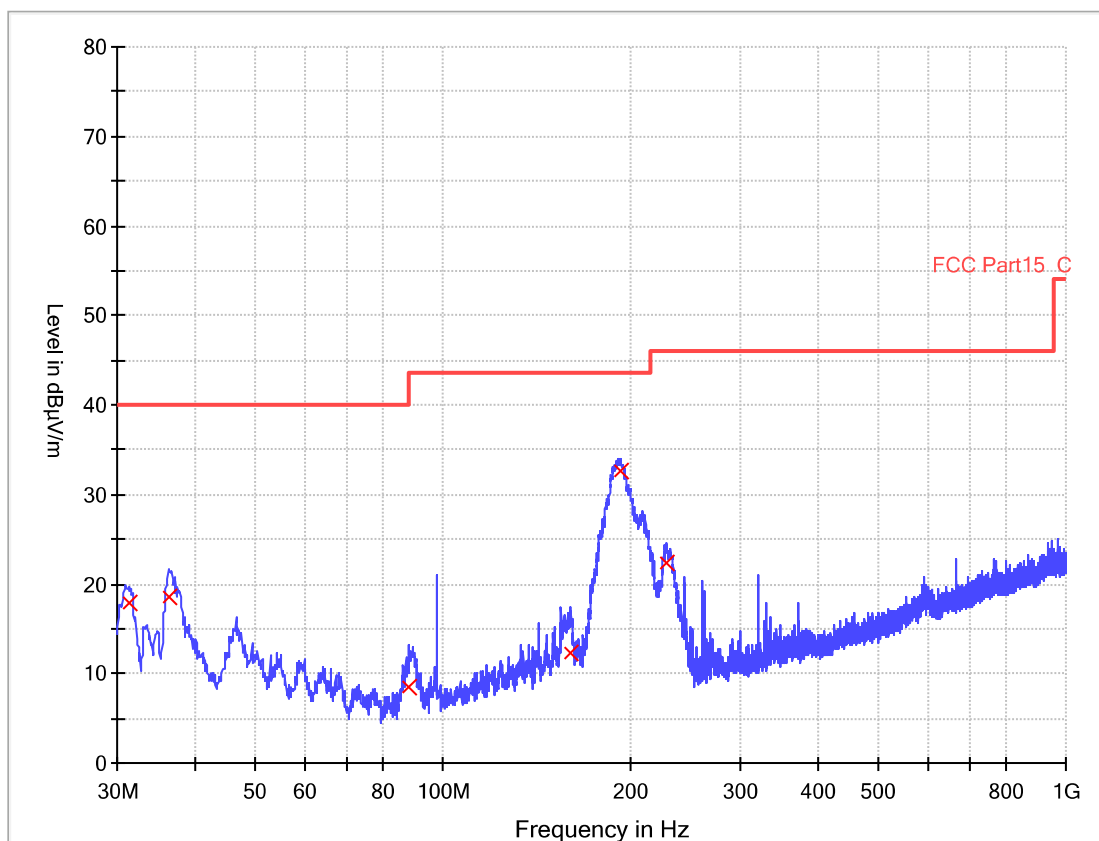
4.1.5. TEST RESULTS

PASS

Remark:

1. Radiated emission below 18 GHz (30 MHz – 18 GHz) measured both EUTs (EUT A and EUT B), radiated emission above 18 GHz measured at EUT A.
2. Not recorded values after pre-test below 30 MHz (9 KHz – 30 MHz), values at least 20 dB below limit.
3. Distance conversion factor offset in test plots.

Plots No. 1: 30 MHz to 1 GHz, Horizontal _ EUT A



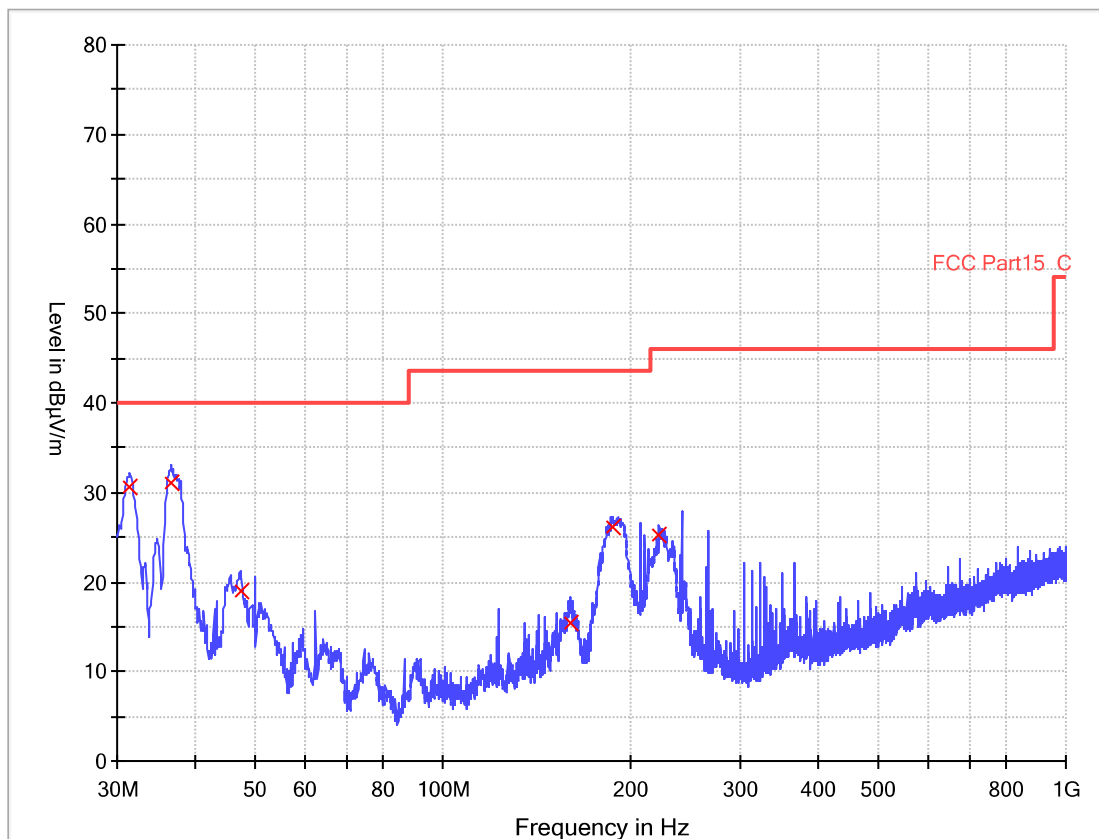
Limit and Margin

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)
31.360000	17.8	1000.0	120.000	200.0	H	180.0	-25.4	22.2
36.320000	18.5	1000.0	120.000	200.0	H	180.0	-24.8	21.5
88.200000	8.5	1000.0	120.000	200.0	H	180.0	-28.3	35.0
160.080000	12.2	1000.0	120.000	200.0	H	180.0	-23.1	31.3
192.880000	32.7	1000.0	120.000	200.0	H	180.0	-26.4	10.8
228.360000	22.3	1000.0	120.000	200.0	H	180.0	-25.6	23.7

(continuation of the "Limit and Margin" table from column 16 ...)

Frequency (MHz)	Limit - QPK (dBuV/m)	Comment
31.360000	40.0	
36.320000	40.0	
88.200000	43.5	
160.080000	43.5	
192.880000	43.5	
228.360000	46.0	

Plots No. 2: 30 MHz to 1 GHz, Vertical Polarization _ EUT A



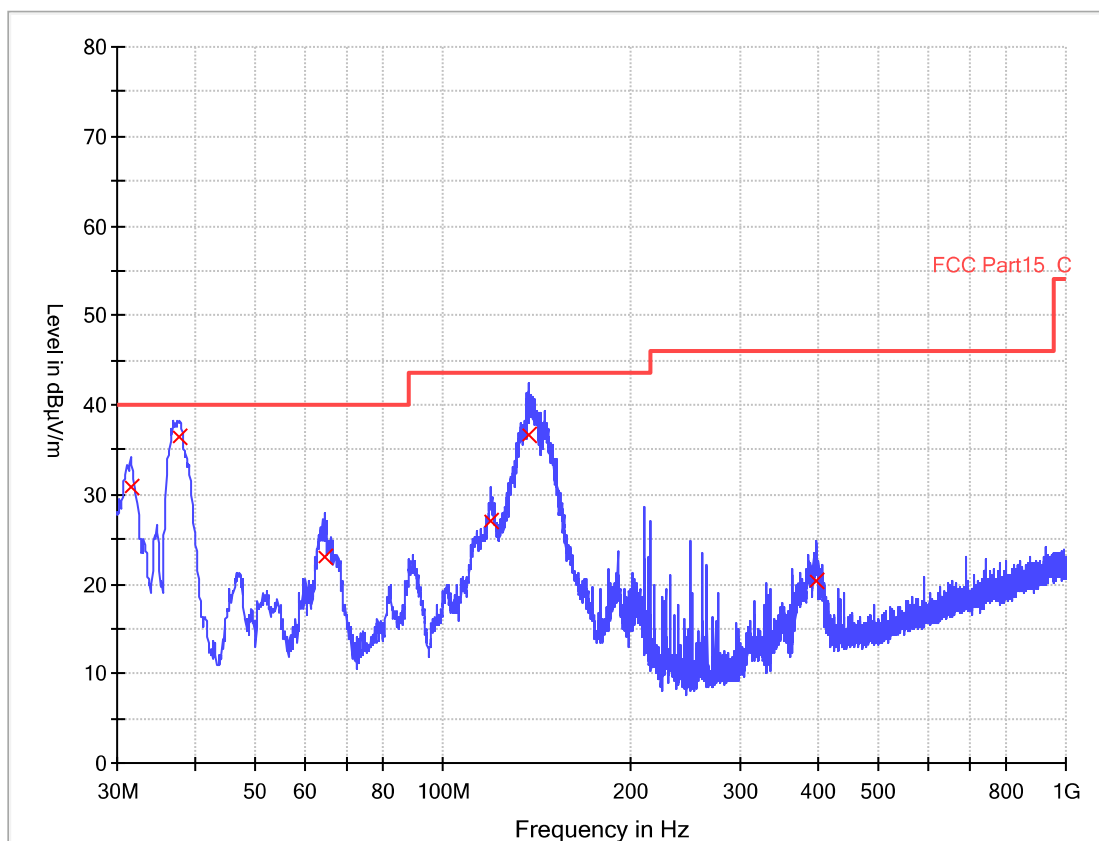
Limit and Margin

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)
31.440000	30.7	1000.0	120.000	200.0	H	180.0	-25.4	9.4
36.600000	31.0	1000.0	120.000	200.0	H	180.0	-24.8	9.0
47.280000	19.1	1000.0	120.000	200.0	H	180.0	-24.7	20.9
160.160000	15.4	1000.0	120.000	200.0	H	180.0	-23.1	28.1
186.480000	26.0	1000.0	120.000	200.0	H	180.0	-26.0	17.5
222.360000	25.3	1000.0	120.000	200.0	H	180.0	-26.0	20.8

(continuation of the "Limit and Margin" table from column 16 ...)

Frequency (MHz)	Limit - QPK (dBuV/m)	Comment
31.440000	40.0	
36.600000	40.0	
47.280000	40.0	
160.160000	43.5	
186.480000	43.5	
222.360000	46.0	

Plots No. 3: 30 MHz to 1 GHz, Vertical Polarization _ EUT B



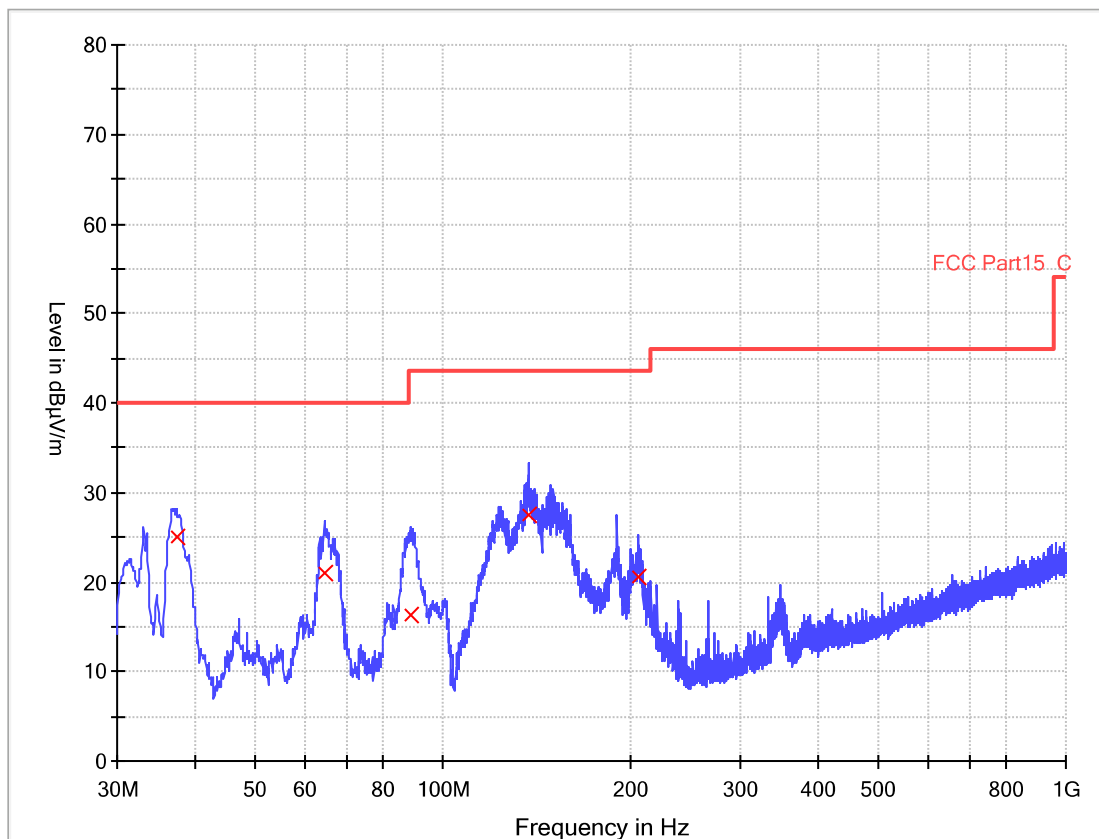
Limit and Margin

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)
31.560000	30.9	1000.0	120.000	200.0	H	180.0	-25.3	9.1
37.760000	36.4	1000.0	120.000	200.0	H	180.0	-24.5	3.6
64.720000	23.0	1000.0	120.000	200.0	H	180.0	-26.1	17.0
119.520000	27.1	1000.0	120.000	200.0	H	180.0	-25.2	16.4
137.480000	36.7	1000.0	120.000	200.0	H	180.0	-24.0	6.8
396.280000	20.4	1000.0	120.000	200.0	H	180.0	-20.8	25.6

(continuation of the "Limit and Margin" table from column 16 ...)

Frequency (MHz)	Limit - QPK (dBuV/m)	Comment
31.560000	40.0	
37.760000	40.0	
64.720000	40.0	
119.520000	43.5	
137.480000	43.5	
396.280000	46.0	

Plots No. 4: 30 MHz to 1 GHz, Horizontal Polarization _ EUT B



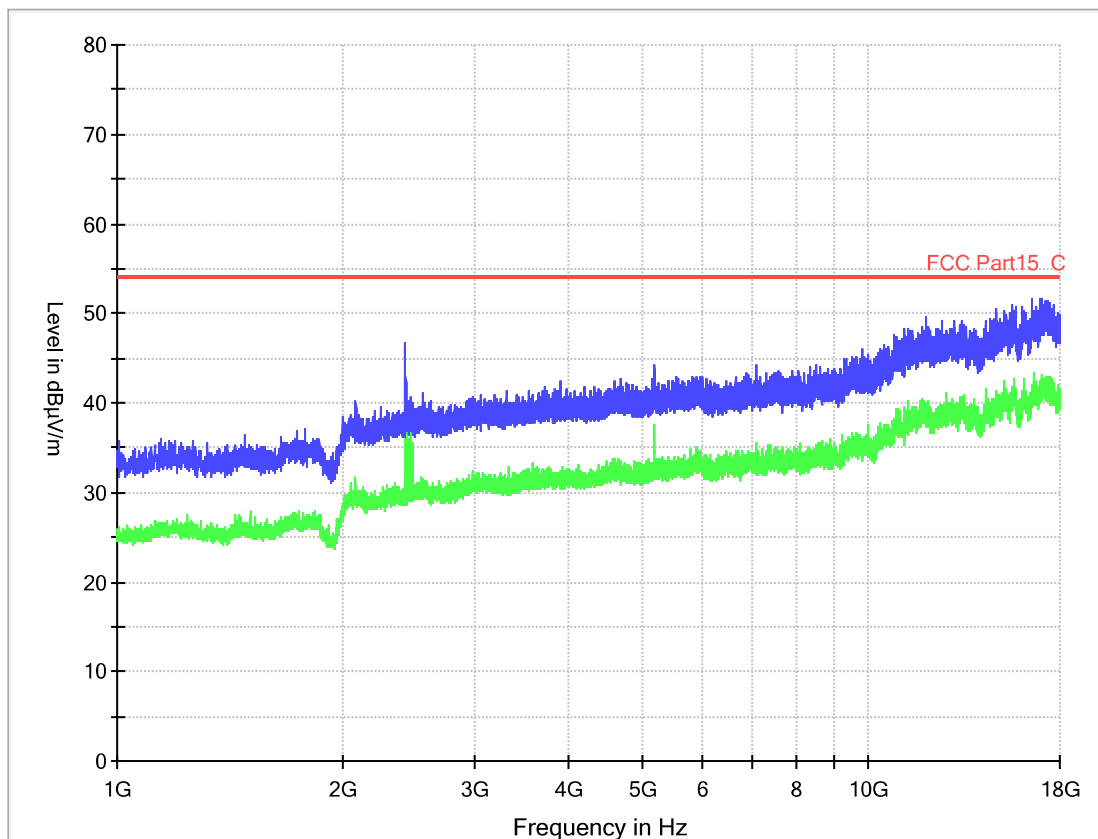
Limit and Margin

Frequency (MHz)	QuasiPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - QPK (dB)
37.480000	25.1	1000.0	120.000	200.0	H	180.0	-24.6	15.0
64.520000	21.0	1000.0	120.000	200.0	H	180.0	-26.1	19.0
88.680000	16.4	1000.0	120.000	200.0	H	180.0	-28.2	27.1
137.080000	27.5	1000.0	120.000	200.0	H	180.0	-24.0	16.0
205.560000	20.5	1000.0	120.000	200.0	H	180.0	-26.7	23.1

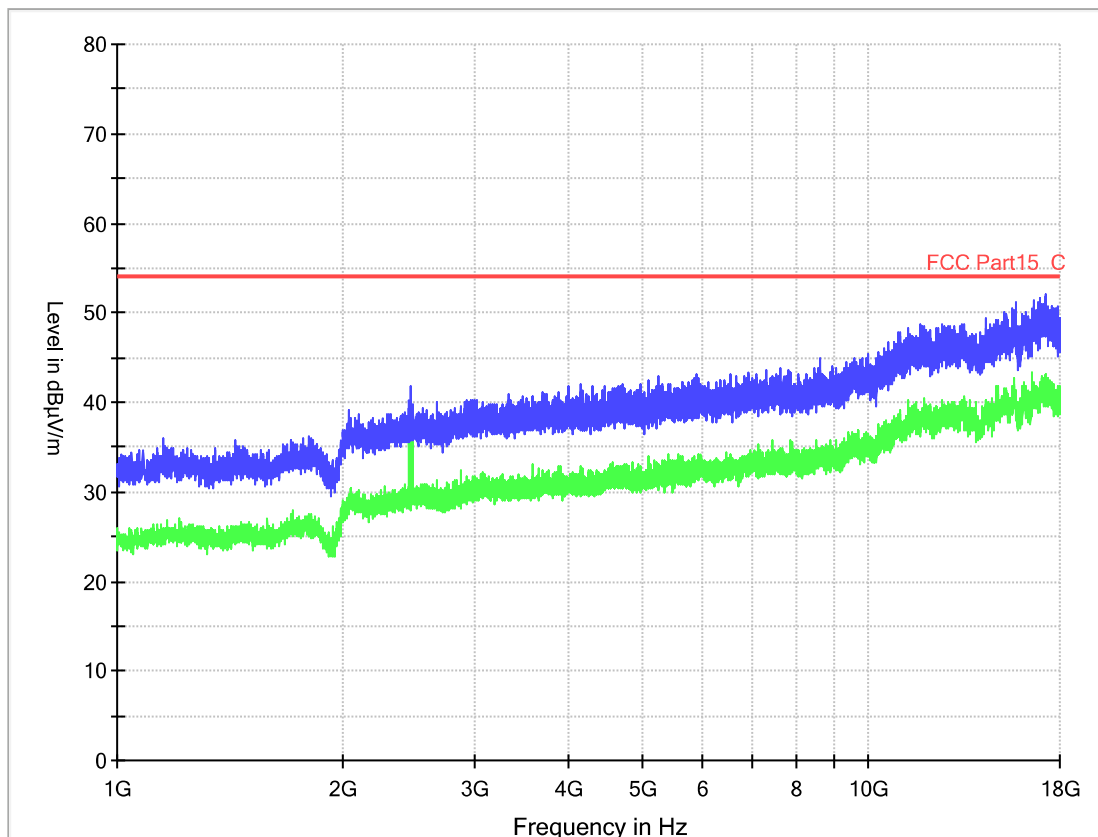
(continuation of the "Limit and Margin" table from column 16 ...)

Frequency (MHz)	Limit - QPK (dBuV/m)	Comment
37.480000	40.0	
64.520000	40.0	
88.680000	43.5	
137.080000	43.5	

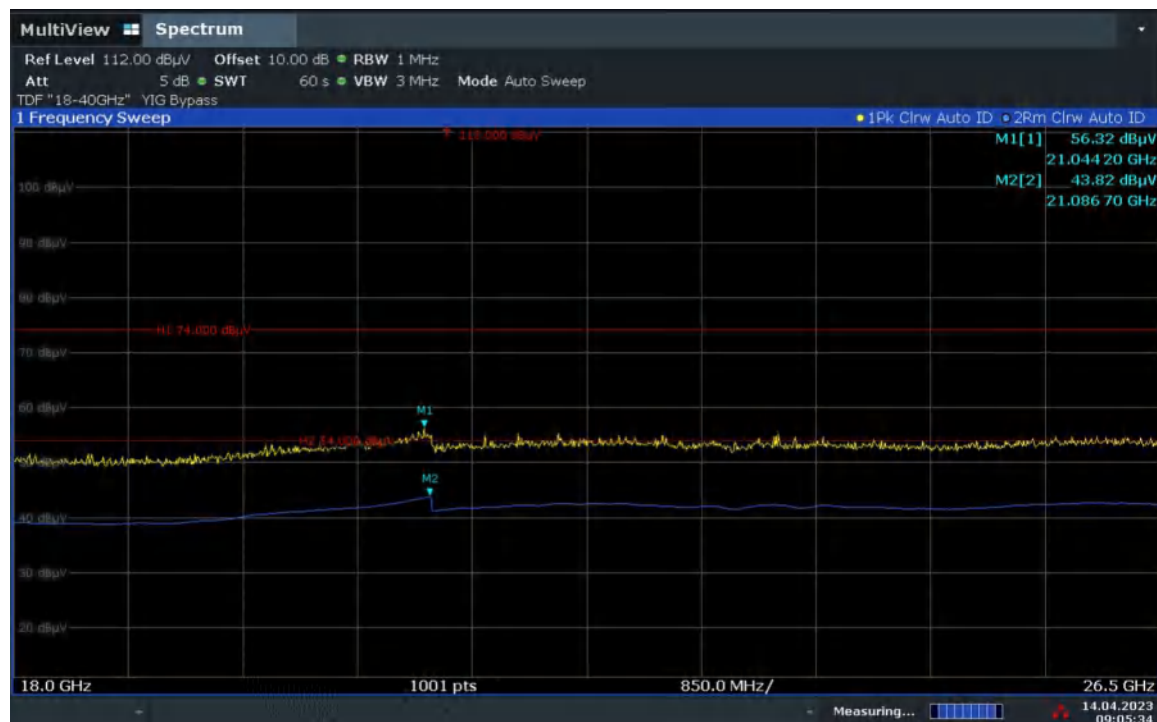
Plots No. 5: 1 GHz to 18 GHz, Horizontal / Vertical Polarization _ EUT A



Plots No. 6: 1 GHz to 18 GHz, Horizontal / Vertical Polarization _ EUT B



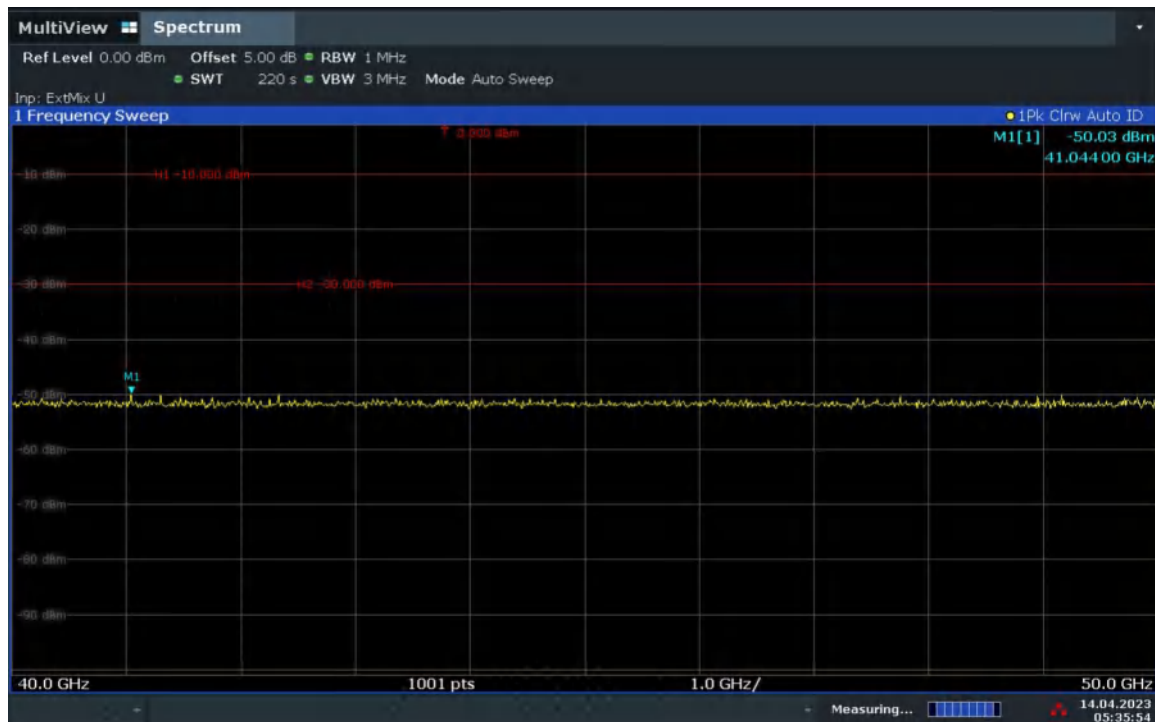
Plots No. 7: 18 GHz to 26 GHz, Horizontal / Vertical Polarization_ EUT A



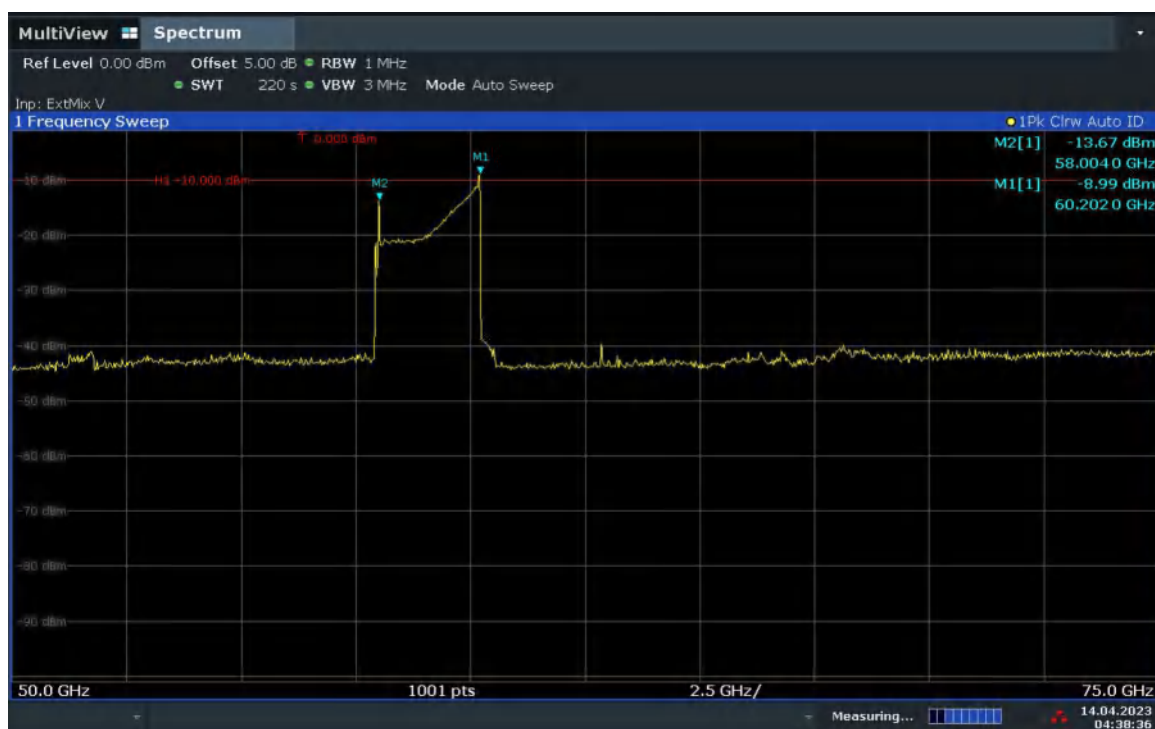
Plots No. 8: 26 GHz to 40 GHz, Horizontal / Vertical Polarization_ EUT A



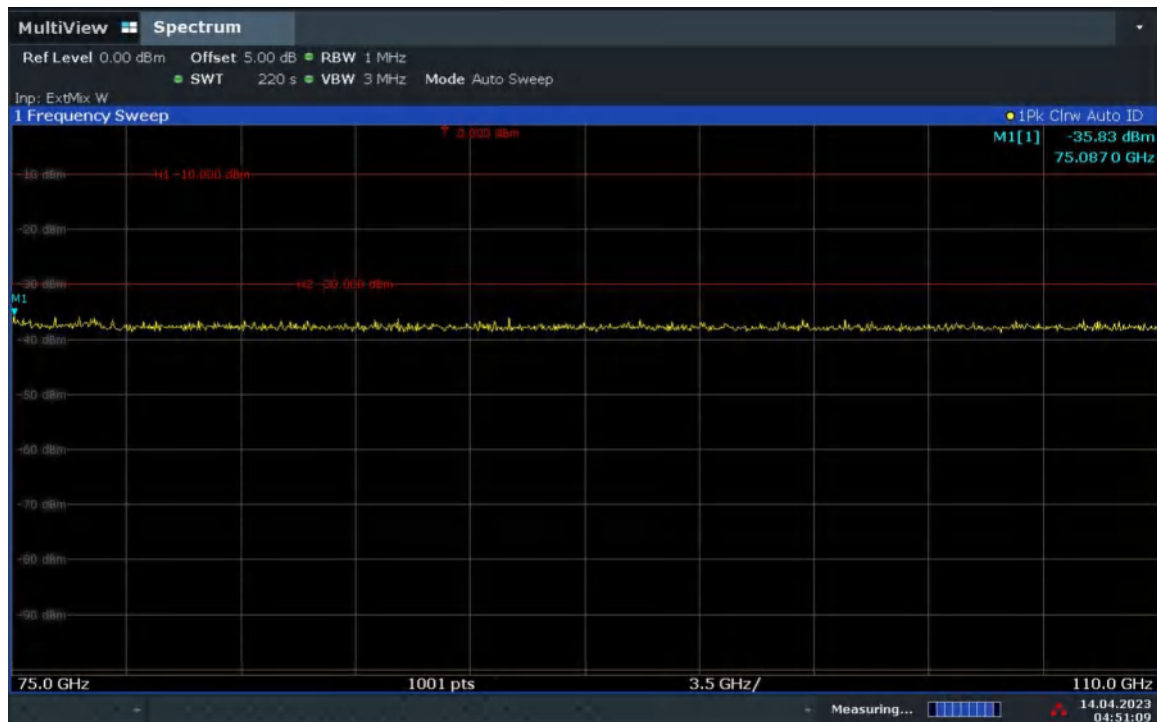
Plots No. 9: 40 GHz to 50 GHz, Horizontal / Vertical Polarization_ EUT A



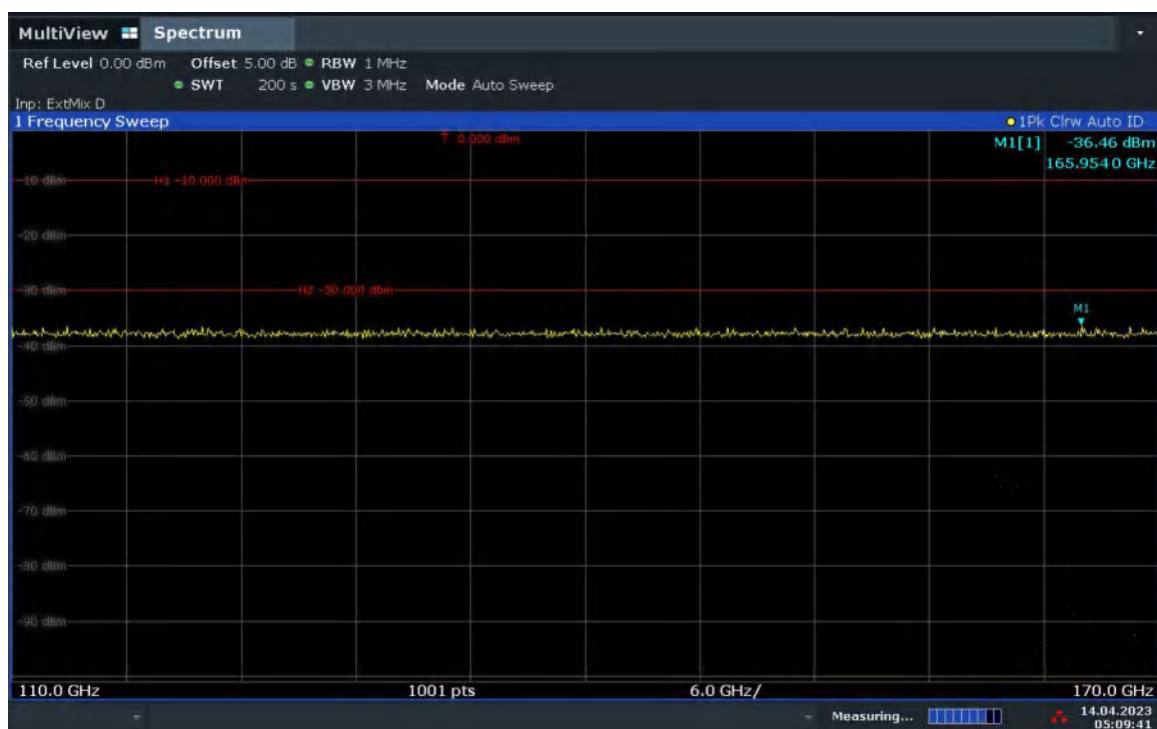
Plots No. 10: 50 GHz to 75 GHz, Horizontal / Vertical Polarization_ EUT A



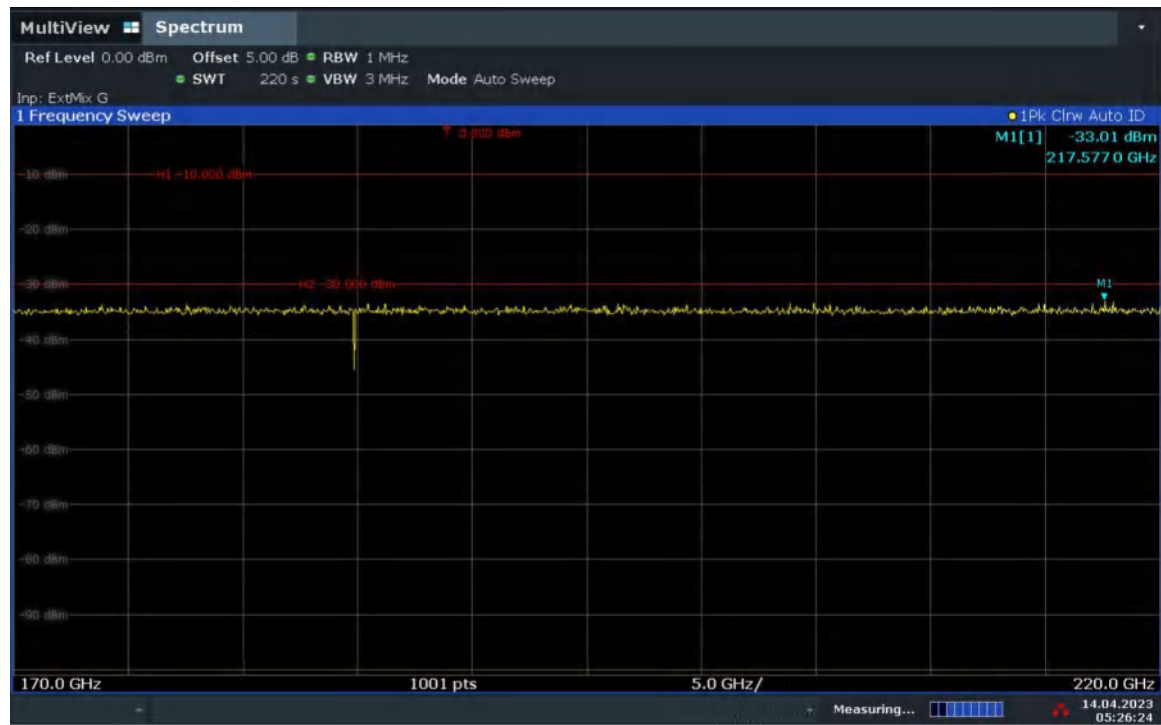
Plots No. 11: 75 GHz to 110 GHz, Horizontal / Vertical Polarization_ EUT A



Plots No. 12: 110 GHz to 170 GHz, Horizontal / Vertical Polarization_ EUT A



Plots No. 13: 170 GHz to 220 GHz, Horizontal / Vertical Polarization_ EUT A



4.2. AC Conducted Emission

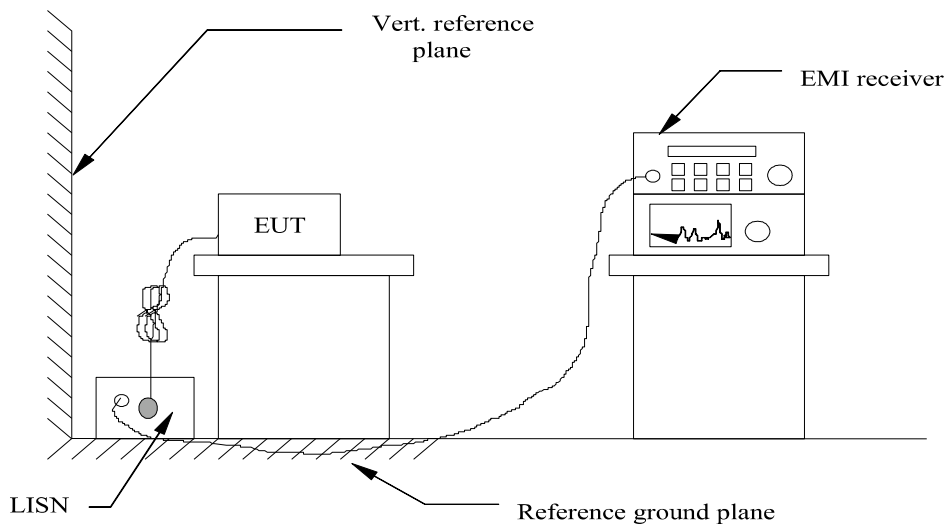
4.2.1. LIMITS OF DISTURBANCE

According to RSS Gen 8.8 and § 15.207(a) Line Conducted Emission Limits is as following:

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

* Decreases with the logarithm of the frequency.

4.2.2. TEST CONFIGURATION



4.2.3. TEST PROCEDURE

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2013.
2. Support equipment, if needed, was placed as per ANSI C63.10-2013
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013
4. The EUT received DC 12V power from adapter, the adapter received AC120V/60Hz and AC 240V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipment received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50-ohm load; the second scan had Line 1 connected to a 50-ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.

4.2.4. DISTURBANCE CALCULATION

The AC mains conducted disturbance is calculated by adding the 10dB Pulse Limiter and Cable Factor and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$CD \text{ (dBuV)} = RA \text{ (dBuV)} + PL \text{ (dB)} + CL \text{ (dB)}$$

Where CD = Conducted Disturbance	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	PL = 10 dB Pulse Limiter Factor

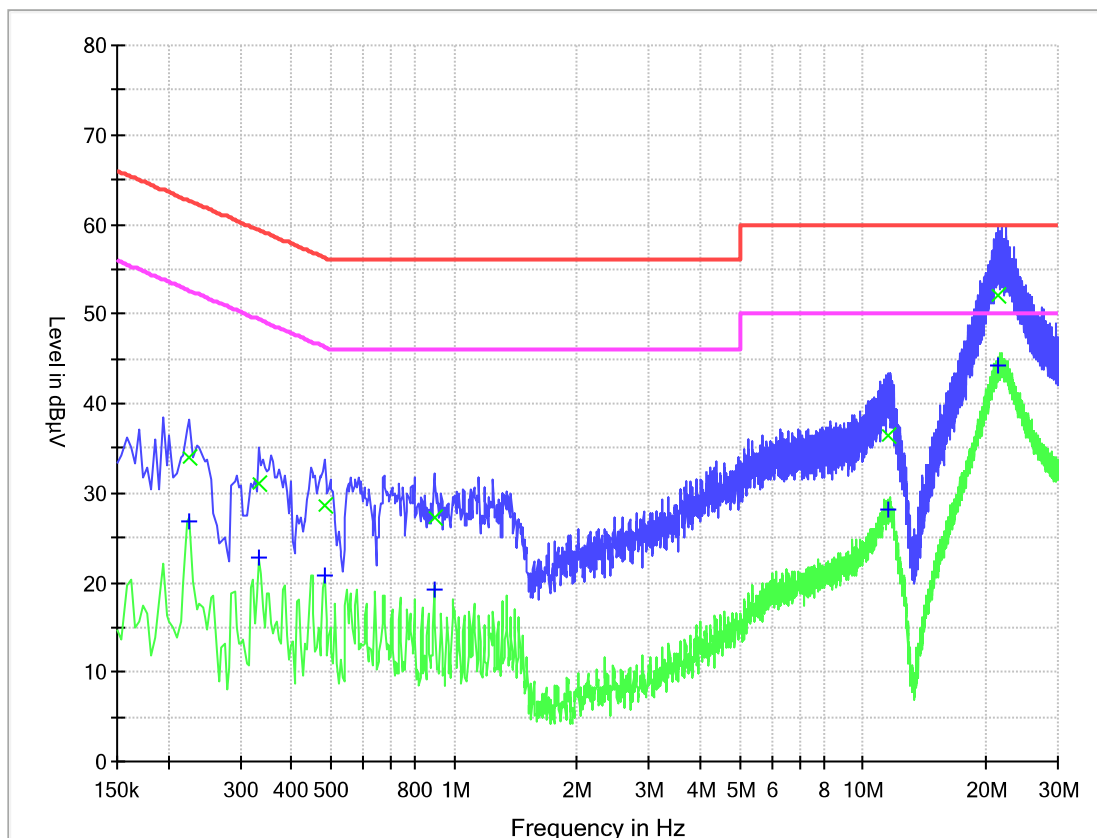
4.2.5. TEST RESULTS

PASS

Remark:

1. Measured both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply only reported worst case at 120 VAC, 60 Hz as below:..

Plots No. 14: Neutral Line _ EUT A



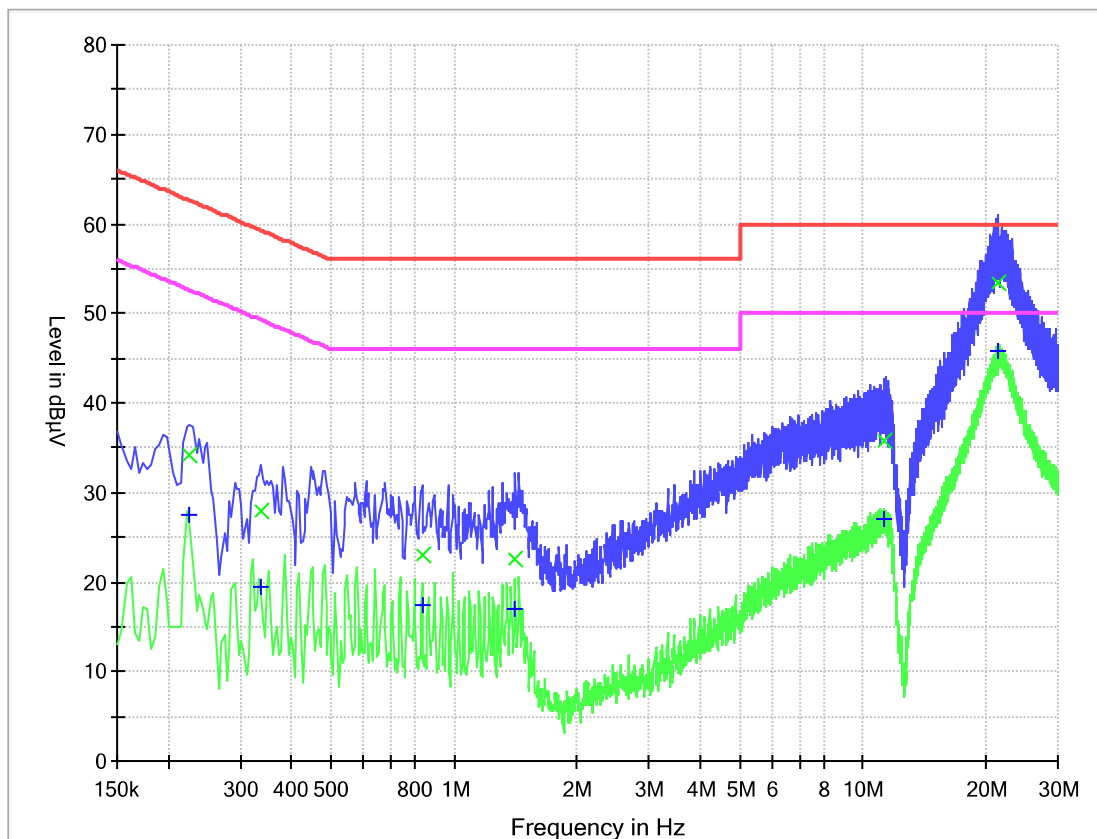
Limit and Margin

Frequency (MHz)	MaxPeak (dBμV)	QuasiPeak (dBμV)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.226000	---	34.0	26.9	10.0	9.000	LOCAL	OFF	9.7
0.334000	---	31.0	22.7	10.0	9.000	LOCAL	OFF	9.7
0.482000	---	28.6	20.8	10.0	9.000	LOCAL	OFF	9.7
0.894000	---	27.2	19.3	10.0	9.000	LOCAL	OFF	9.8
11.530000	---	36.4	28.1	10.0	9.000	LOCAL	OFF	10.4
21.494000	---	52.0	44.2	10.0	9.000	LOCAL	OFF	10.7

(continuation of the "Limit and Margin" table from column 14 ...)

Frequency (MHz)	Margin - QPK (dB)	Limit - QPK (dBμV)	Margin - AVG (dB)	Limit - AVG (dBμV)	Comment
0.226000	28.6	62.6	25.7	52.6	
0.334000	28.3	59.4	26.6	49.4	
0.482000	27.7	56.3	25.5	46.3	
0.894000	28.8	56.0	26.7	46.0	
11.530000	23.6	60.0	21.9	50.0	

Plots No. 15: Phase Line _ EUT A



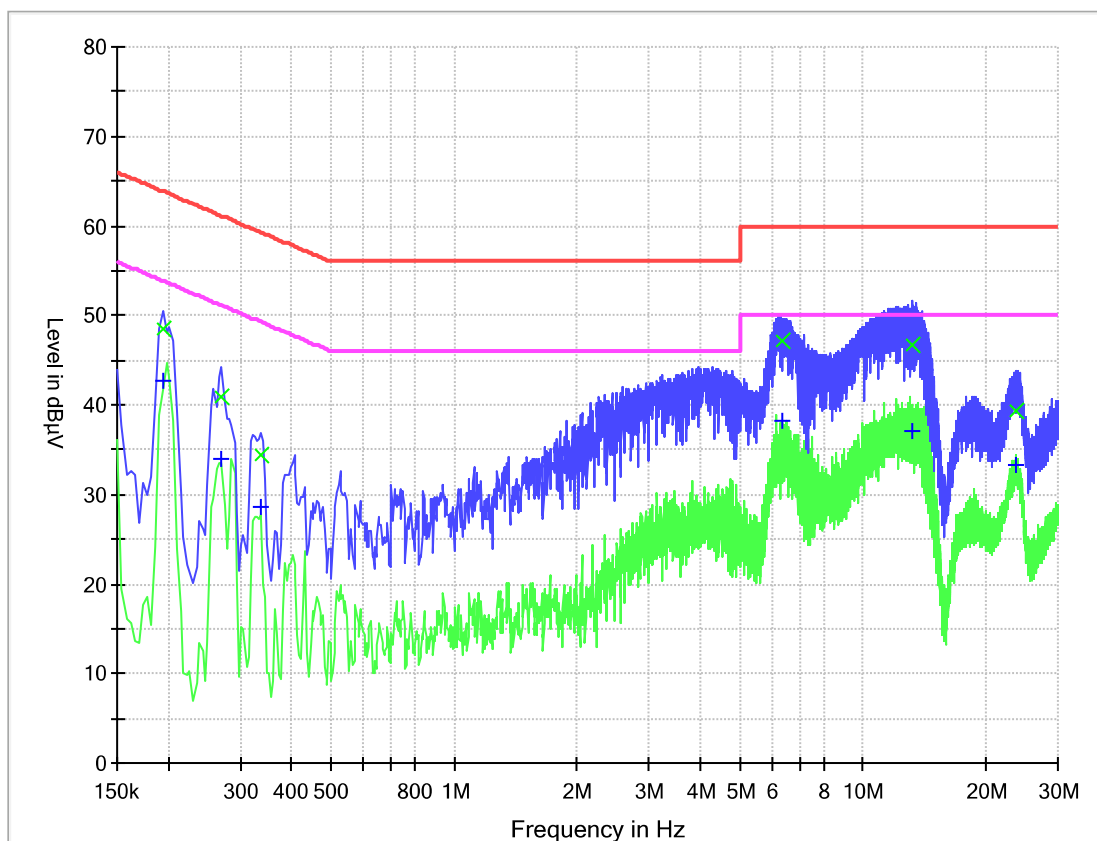
Limit and Margin

Frequency (MHz)	MaxPeak (dBuV)	QuasiPeak (dBuV)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.226000	---	34.2	27.5	10.0	9.000	LOCAL	OFF	9.7
0.338000	---	27.9	19.4	10.0	9.000	LOCAL	OFF	9.7
0.834000	---	23.1	17.4	10.0	9.000	LOCAL	OFF	9.8
1.414000	---	22.5	17.0	10.0	9.000	LOCAL	OFF	9.9
11.218000	---	35.9	27.0	10.0	9.000	LOCAL	OFF	10.4
21.378000	---	53.3	45.9	10.0	9.000	LOCAL	OFF	10.7

(continuation of the "Limit and Margin" table from column 14 ...)

Frequency (MHz)	Margin - QPK (dB)	Limit - QPK (dBuV)	Margin - AVG (dB)	Limit - AVG (dBuV)	Comment
0.226000	28.4	62.6	25.1	52.6	
0.338000	31.3	59.3	29.9	49.3	
0.834000	32.9	56.0	28.6	46.0	
1.414000	33.5	56.0	29.1	46.0	
11.218000	24.2	60.0	23.0	50.0	
21.378000	6.7	60.0	4.1	50.0	

Plots No. 16: Neutral Line _ EUT B



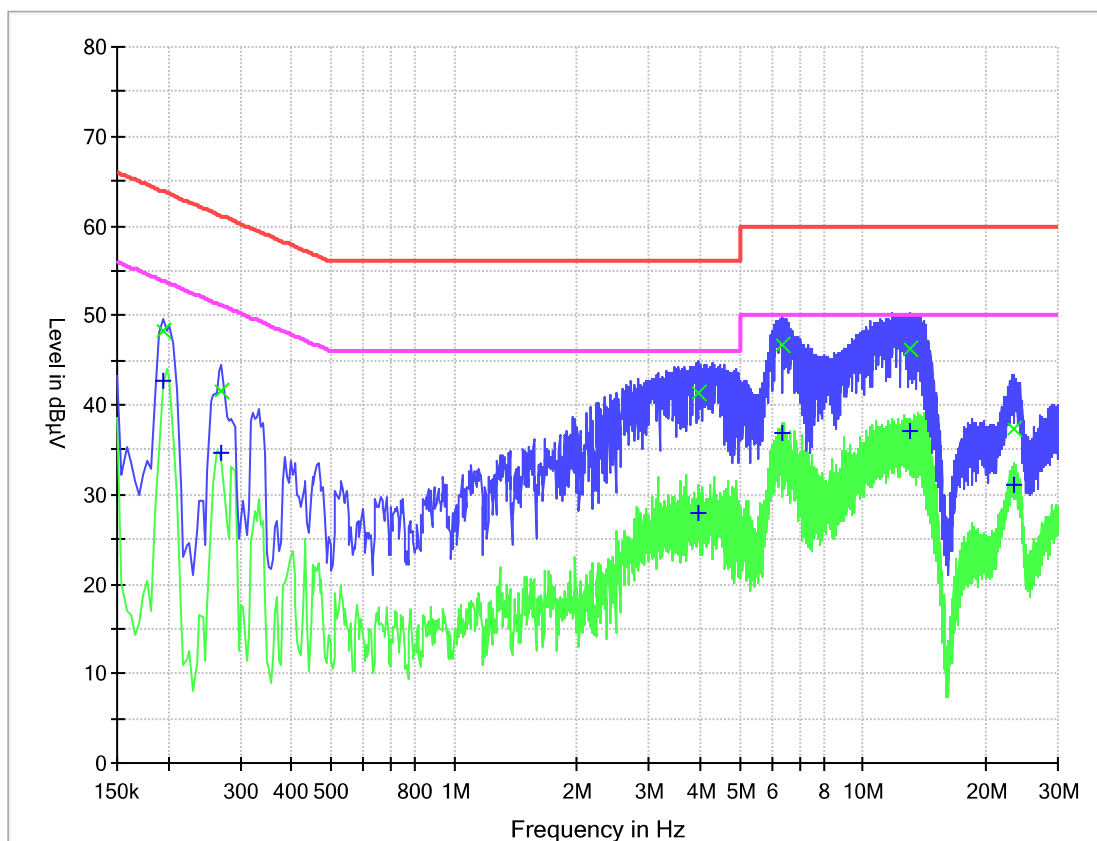
Limit and Margin

Frequency (MHz)	MaxPeak (dBuV)	QuasiPeak (dBuV)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.194000	---	48.5	42.7	10.0	9.000	LOCAL	OFF	9.6
0.270000	---	40.8	33.9	10.0	9.000	LOCAL	OFF	9.7
0.338000	---	34.4	28.6	10.0	9.000	LOCAL	OFF	9.7
6.350000	---	47.1	38.3	10.0	9.000	LOCAL	OFF	10.2
13.142000	---	46.7	37.1	10.0	9.000	LOCAL	OFF	10.5
23.774000	---	39.2	33.4	10.0	9.000	LOCAL	OFF	10.8

(continuation of the "Limit and Margin" table from column 14 ...)

Frequency (MHz)	Margin - QPK (dB)	Limit - QPK (dBuV)	Margin - AVG (dB)	Limit - AVG (dBuV)	Comment
0.194000	15.4	63.9	11.2	53.9	
0.270000	20.3	61.1	17.3	51.1	
0.338000	24.9	59.3	20.7	49.3	
6.350000	12.9	60.0	11.7	50.0	
13.142000	13.3	60.0	13.0	50.0	

Plots No. 17: Phase Line _ EUT B



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV)	QuasiPeak (dBuV)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.194000	---	48.4	42.6	10.0	9.000	LOCAL	OFF	9.6
0.270000	---	41.6	34.6	10.0	9.000	LOCAL	OFF	9.7
3.950000	---	41.4	27.9	10.0	9.000	LOCAL	OFF	10.1
6.334000	---	46.6	37.0	10.0	9.000	LOCAL	OFF	10.2
12.998000	---	46.3	37.0	10.0	9.000	LOCAL	OFF	10.5
23.358000	---	37.4	31.1	10.0	9.000	LOCAL	OFF	10.8

(continuation of the "Limit and Margin" table from column 14 ...)

Frequency (MHz)	Margin - QPK (dB)	Limit - QPK (dBuV)	Margin - AVG (dB)	Limit - AVG (dBuV)	Comment
0.194000	15.5	63.9	11.3	53.9	
0.270000	19.5	61.1	16.5	51.1	
3.950000	14.6	56.0	18.1	46.0	
6.334000	13.4	60.0	13.0	50.0	
12.998000	13.7	60.0	13.0	50.0	
23.358000	22.6	60.0	18.9	50.0	

4.3. Occupied Bandwidth (99% & 20dB Bandwidth)

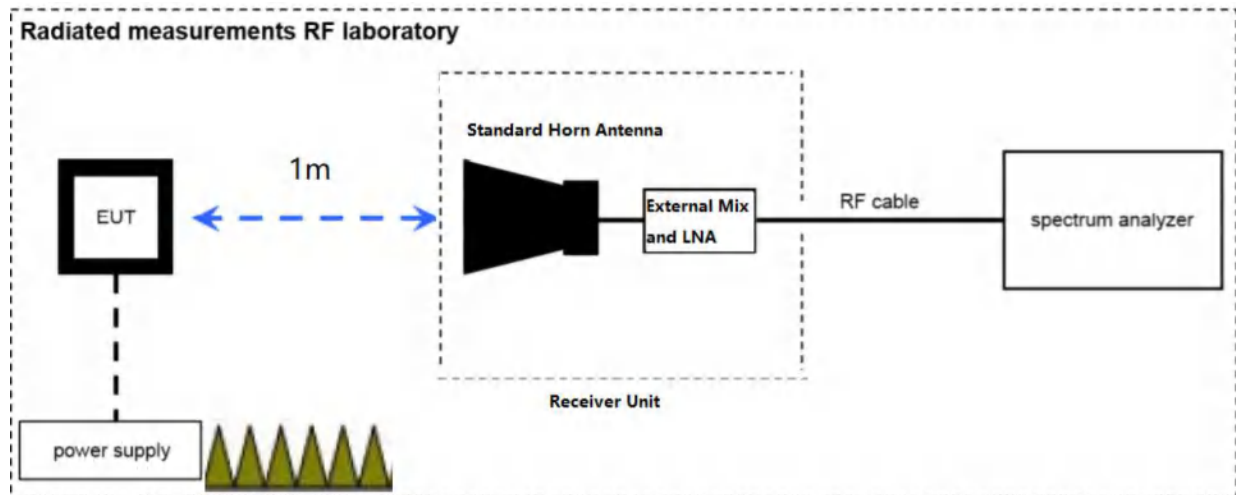
4.3.1. LIMITS

The occupied bandwidth is defined as the 99% bandwidth.

According to § 2.1049 and RSS-Gen section 6.7: The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

The occupied bandwidth from intentional radiators operated within the specified frequency band shall comply with frequency range: 57 GHz – 71 GHz.

4.3.2. TEST CONFIGURATION



4.3.3. TEST PROCEDURE

- The equipment is set up to simulate normal operation mode as described in the user manual or defined by the manufacturer
- If the EUT is a tabletop system, 1.5 m height is used.
- If the EUT is a floor standing device, it is placed directly on the turntable.
- Auxiliary equipment and cables are positioned to simulate normal operation conditions as described in ANSI C63.4.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- Measurement distance is 1m (see ANSI C63.4) – see test details.
- EUT is set into operation.
- The turntable rotates from 0 degree to 360 degree.
- The antenna with external mixer is polarized vertical and horizontal.
- The antenna height changes from 1m to 4m.
- Set the resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

4.3.4. TEST RESULTS

Test Conditions	EUT/Antenna Orientation	Occupied Bandwidth (99%)					Test Results
		F _L [GHz]	F _L Limits [GHz]	F _H [GHz]	F _H Limits [GHz]	Occupied Bandwidth [GHz]	
T _{nom} / V _{nom}	X/H&V	57.94546	≥ 57	60.19291	≤ 71	2.247	PASS

Test Conditions	EUT/Antenna Orientation	Occupied Bandwidth (20dB)					Test Results
		F _L [GHz]	F _L Limits [GHz]	F _H [GHz]	F _H Limits [GHz]	Occupied Bandwidth [GHz]	
T _{nom} / V _{nom}	X/H&V	57.9252	≥ 57	60.1969	≤ 71	2.27	PASS

Plots No. 18: 99% Occupied Bandwidth, Horizontal / Vertical Polarization_ EUT A



Notes: The 99% bandwidth of the emission is contained within the frequency band.

Plots No. 19: 20dB Occupied Bandwidth, Horizontal / Vertical Polarization_ EUT A



Notes: The 20dB bandwidth of the emission is contained within the frequency band.

4.4. Maximum E.I.R.P. Peak / Transmitter Output Power

4.4.1. LIMITS

According to § 15.255 (c) and RSS-210 J2: Within the 57–71 GHz band, emission levels shall not exceed the following equivalent isotropically radiated power (EIRP):

- (1) Products other than fixed field disturbance sensors and short-range devices for interactive motion sensing shall comply with one of the following emission limits, as measured during the transmit interval:
 - (i) The average power of any emission shall not exceed 40 dBm and the peak power of any emission shall not exceed 43 dBm; or
 - (ii) For fixed point-to-point transmitters located outdoors, the average power of any emission shall not exceed 82 dBm, and shall be reduced by 2 dB for every dB that the antenna gain is less than 51 dBi. The peak power of any emission shall not exceed 85 dBm, and shall be reduced by 2 dB for every dB that the antenna gain is less than 51 dBi.
 - (A) The provisions in this [paragraph \(c\)](#) for reducing transmit power based on antenna gain shall not require that the power levels be reduced below the limits specified in [paragraph \(c\)\(1\)\(i\)](#) of this section.
 - (B) The provisions of [§ 15.204\(c\)\(2\)](#) and [\(4\)](#) that permit the use of different antennas of the same type and of equal or less directional gain do not apply to intentional radiator systems operating under this provision. In lieu thereof, intentional radiator systems shall be certified using the specific antenna(s) with which the system will be marketed and operated. Compliance testing shall be performed using the highest gain and the lowest gain antennas for which certification is sought and with the intentional radiator operated at its maximum available output power level. The responsible party, as defined in [§ 2.909 of this chapter](#), shall supply a list of acceptable antennas with the application for certification.
- (2) For fixed field disturbance sensors that occupy 500 MHz or less of bandwidth and that are contained wholly within the frequency band 61.0–61.5 GHz, the average power of any emission, measured during the transmit interval, shall not exceed 40 dBm, and the peak power of any emission shall not exceed 43 dBm. In addition, the average power of any emission outside of the 61.0–61.5 GHz band, measured during the transmit interval, but still within the 57–71 GHz band, shall not exceed 10 dBm, and the peak power of any emission shall not exceed 13 dBm.
- (3) For fixed field disturbance sensors other than those operating under the provisions of [paragraph \(c\)\(2\)](#) of this section, and short-range devices for interactive motion sensing, the peak transmitter conducted output power shall not exceed –10 dBm and the peak EIRP level shall not exceed 10 dBm.
- (4) The peak power shall be measured with an RF detector that has a detection bandwidth that encompasses the 57–71 GHz band and has a video bandwidth of at least 10 MHz. The average emission levels shall be measured over the actual time period during which transmission occurs.

According to RSS-210 J2: Limits of radiated emissions within the band 57-71 GHz

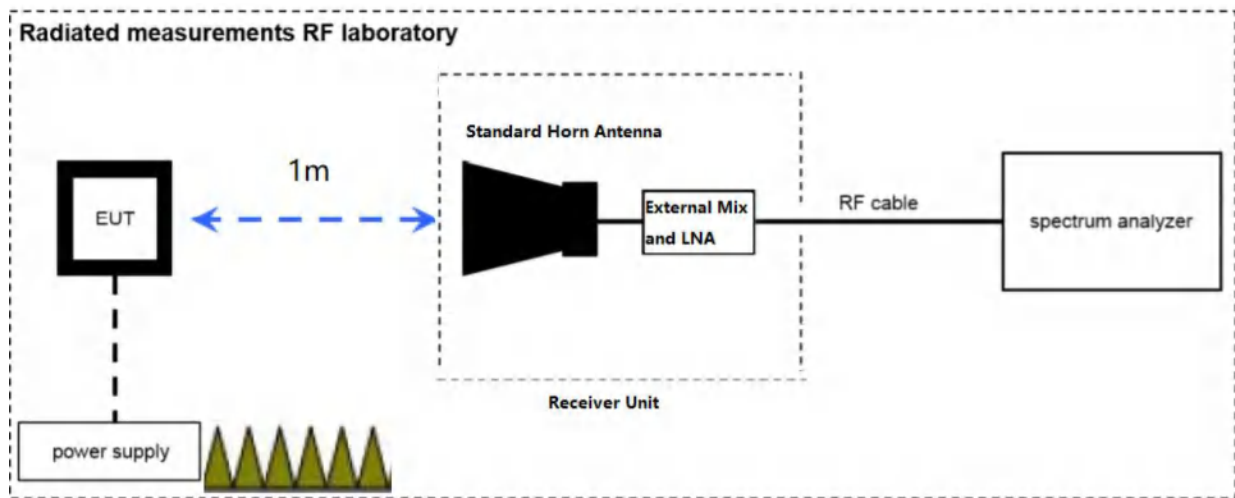
Within the band 57-71 GHz, the power of any emissions, measured during the transmit interval, shall comply with the e.i.r.p. limits in this section.

For the purpose of this annex, the terms “average e.i.r.p.” and “peak e.i.r.p.” refer to e.i.r.p. with transmitter output power measured in terms of average value or peak value respectively.

According to RSS-210 J4: Following are the conditions for peak transmitter output power:

- (a) For devices with an emission bandwidth greater than or equal to 100 MHz, the peak transmitter output power shall not exceed 500 mW. For devices with an emission bandwidth less than 100 MHz, the peak transmitter output power shall be less than the product of 500 mW and their emission bandwidth divided by 100 MHz.
- (b) For the purposes of demonstrating compliance with this RSS, corrections to the transmitter output power may be made to compensate for antenna and circuit loss.
- (c) For the purpose of this standard, emission bandwidth is defined as the instantaneous frequency range occupied by a steady radiated signal with modulation, outside which the radiated power spectral density shall be 6 dB below the maximum radiated power spectral density in the band, as measured with a 100 kHz resolution bandwidth. The centre frequency must be stationary during the measurement interval, even if not stationary during normal operation.

4.4.2. TEST CONFIGURATION



4.4.3. TEST PROCEDURE

- The equipment is set up to simulate normal operation mode as described in the user manual or defined by the manufacturer
- If the EUT is a tabletop system, 1.5 m height is used.
- If the EUT is a floor standing device, it is placed directly on the turntable.
- Auxiliary equipment and cables are positioned to simulate normal operation conditions as described in ANSI C63.4.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- Measurement distance is 1m (see ANSI C63.4) – see test details.
- EUT is set into operation.
- The turntable rotates from 0 degree to 360 degree.
- The antenna with external mixer is polarized vertical and horizontal.
- The antenna height changes from 1m to 4m.
- Set the resolution bandwidth RBW=10MHz/VBW=10MHz, Sweep Time=220s, Detector: Peak.

4.4.4. TEST RESULTS

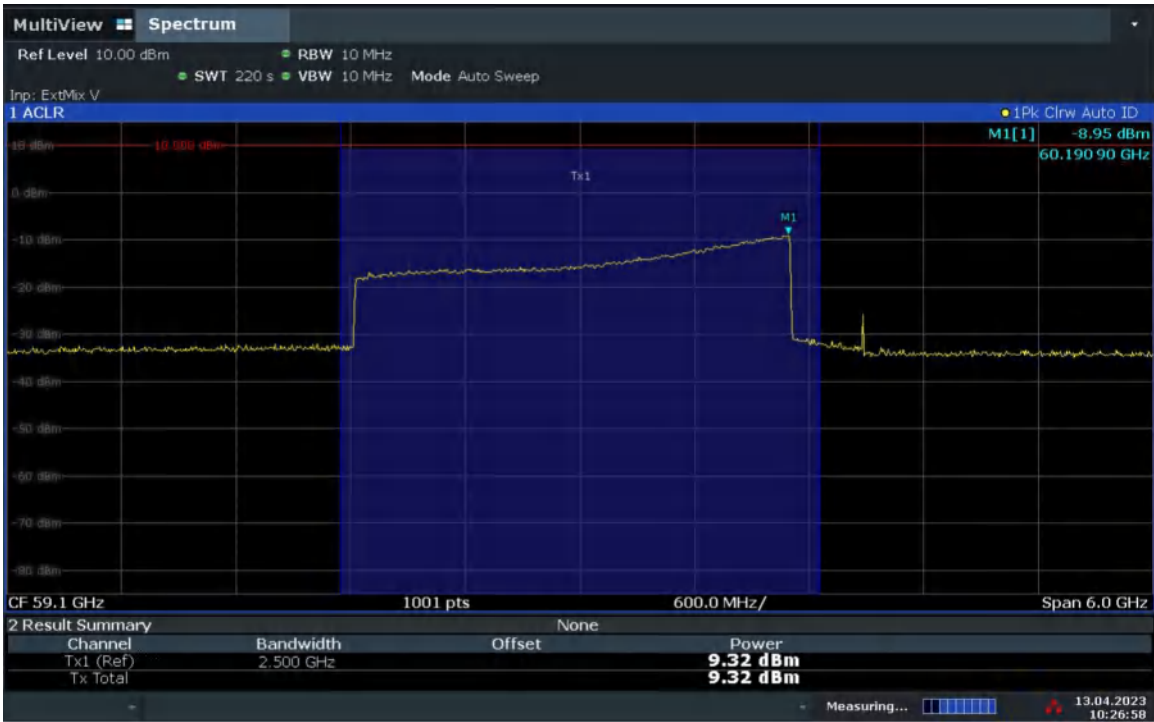
Test Conditions	EUT/Antenna Orientation	Maximum E.I.R.P RBW = 10MHz EUT A					Test Results
		Peak E.I.R.P [dBm]	Peak E.I.R.P Limits [GHz]	Peak Transmitter Conducted Power [dBm]	Peak Transmitter Conducted Power Limit [dBm]	Average E.I.R.P [dBm]	
T _{nom} / V _{nom}	X/H&V	-8.95	≤10dBm	-14.95	≤-10dBm	-18.61	PASS

Test Conditions	EUT/Antenna Orientation	Maximum E.I.R.P RBW = 10MHz EUT B					Test Results
		Peak E.I.R.P [dBm]	Peak E.I.R.P Limits [GHz]	Peak Transmitter Conducted Power [dBm]	Peak Transmitter Conducted Power Limit [dBm]	Average E.I.R.P [dBm]	
T _{nom} / V _{nom}	X/H&V	-9.11	≤10dBm	-15.11	≤-10dBm	-18.68	PASS

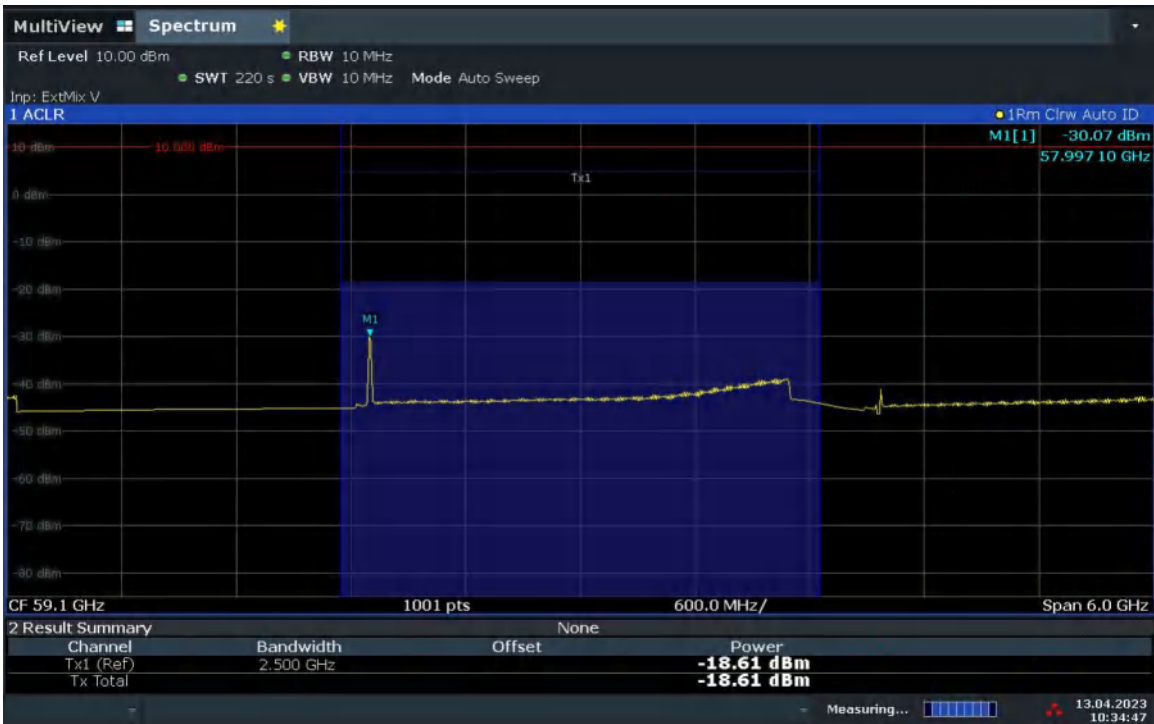
Remark:

- (1) Peak Transmitter Conducted Power = Peak E.I.R.P. – Antenna Gain
- (2) Antenna Gain values provided by customer, CQC-IVTS not responsible for accuracy.
- (3) Only provide measured plots at EUT A.

Plots No. 20: Peak E.I.R.P, Horizontal / Vertical Polarization_ EUT A



Plots No. 21: Average E.I.R.P, Horizontal / Vertical Polarization_ EUT A

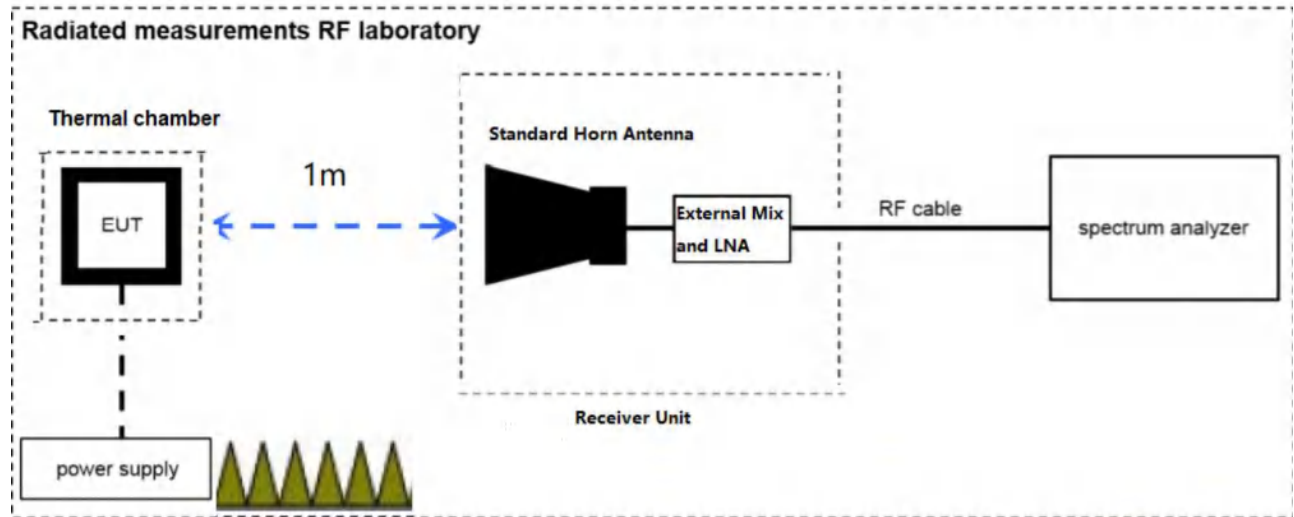


4.5. Frequency Stability

4.5.1. LIMITS

According to § 15.255 (f) and RSS-210 J6: Fundamental emissions must be contained within the frequency bands specified in this section during all conditions of operation. Equipment is presumed to operate over the temperature range -20 to + 50 degrees Celsius with an input voltage variation of 85% to 115% of rated input voltage, unless justification is presented to demonstrate otherwise.

4.5.2. TEST CONFIGURATION



4.5.3. TEST PROCEDURE

- The equipment is set up to simulate normal operation mode as described in the user manual or defined by the manufacturer
- If the EUT is a tabletop system, 1.5 m height is used.
- If the EUT is a floor standing device, it is placed directly on the turntable.
- Auxiliary equipment and cables are positioned to simulate normal operation conditions as described in ANSI C63.4.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- Measurement distance is 1m (see ANSI C63.4) – see test details.
- EUT is set into operation.
- The antenna with external mixer is polarized vertical and horizontal.
- The antenna height changes from 1m to 4m.
- Setup corresponding Temperature / Voltage. EUT waiting for 10 minutes to stability before start testing.
- Set the resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

4.5.4. TEST RESULTS

Test Conditions		EUT/Antenna Orientation	Occupied Bandwidth (20dB)					Test Results
Voltage (V)	Temperature (°C)		F _L [GHz]	F _L Limits [GHz]	F _H [GHz]	F _H Limits [GHz]	Occupied Bandwidth [GHz]	
120	-20	X/H&V	57.9192	≥ 57	60.2029	≤ 71	2.28	PASS
120	-10	X/H&V	57.9192	≥ 57	60.2029	≤ 71	2.28	PASS
120	0	X/H&V	57.9252	≥ 57	60.1969	≤ 71	2.27	PASS
120	10	X/H&V	57.9252	≥ 57	60.1969	≤ 71	2.27	PASS
120	20	X/H&V	57.9252	≥ 57	60.1969	≤ 71	2.27	PASS
120	30	X/H&V	57.9252	≥ 57	60.1969	≤ 71	2.27	PASS
120	40	X/H&V	57.9252	≥ 57	60.1969	≤ 71	2.27	PASS
120	50	X/H&V	57.9252	≥ 57	60.1969	≤ 71	2.27	PASS
138	20	X/H&V	57.9252	≥ 57	60.1969	≤ 71	2.27	PASS
102	20	X/H&V	57.9252	≥ 57	60.1969	≤ 71	2.27	PASS

4.6. Antenna Requirement*

4.6.1. REQUIREMENT

According to § 15.203 and RSS-Gen: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited

4.6.2. VERDICT*

The EUT has an integral antenna and maximum antenna gain is 6 dBi which is not user accessible. Hence it compliances with the antenna requirements.

*Provided by customer, CQC-IVTS not responsible for accuracy.

5. Test Set-up Photos of the EUT

Please refer separate test setup photos.

6. External and Internal Photos of the EUT

Please refer separate external and internal photos of the EUT.

Revision History

Revision	Issue Date	Revisions	Revised By
1.0	2023-4-21	Original Issue	Wenliang Li
1.1	2023-5-6	Revised as customer comments	Wenliang Li
1.2	2023-6-20	Revised as customer comments	Wenliang Li

***** End of Report *****

DECLARATION

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

If you have any questions on this report, please contact us within 15 days after issue this report.

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