

TEST REPORT

REPORT NUMBER:25B02W000009-003

ON

Type of Equipment:	Cloud POS Printer
Type of Designation:	NT320
Brand Name:	SUNMI
Manufacturer:	Shanghai Sunmi Technology Co.,Ltd.
FCC ID:	2AH25NT320
IC	22621-NT320

ACCORDING TO

FCC Part 2,FCC Part 15C, RSS-Gen Issue 5, RSS-247 Issue 3,ANSI C63.10-2013

Chongqing Academy of Information and Communications Technology

Month date, year

Jun.26th, 2025

Signature

Zhou Jin

Director

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of Chongqing Academy of Information and Communications Technology.



Report No.:25B02W000009-003

Revision Version

Report Number	Revision	Date
25B02W000009-003	00	2025-06-26

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CONTENTS

1.	Test Laboratory	5
1.1.	Testing Location	5
1.2.	Testing Environment	5
1.3.	Project data	5
1.4.	Signature	5
2.	Client Information	6
2.1.	Applicant Information	6
2.2.	Manufacturer Information	6
3.	Equipment under Test (EUT) and Ancillary Equipment (AE)	7
3.1.	About EUT	7
3.2.	Internal Identification of EUT used during the test	7
3.3.	Outline of Equipment under Test	7
3.4.	Internal Identification of AE used during the test	8
3.5.	EUT Test RF Configuration	8
4.	Reference Documents	10
4.1.	Documents supplied by applicant	10
4.2.	Reference Documents for testing	10
5.	Test Equipments Utilized	11
5.1.	RF Test System	11
5.2.	RSE Test System	11
5.3.	Climate Chamber	12
5.4.	Anechoic chamber Vibration table	12
5.5.	Test software	12
6.	Test Results	13
6.1.	Summary of Test Results	13
6.2.	Peak Output Power-Conducted	14
6.3.	Peak Power Spectral Density	18

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6.4.	6dB Bandwidth	22
6.5.	99% Occupied Bandwidth	26
6.6.	Frequency Band Edges-Conducted	30
6.7.	Transmitter Spurious Emission-Conducted	33
6.8.	Transmitter Spurious Emission-Radiated	42
6.9.	AC Powerline Conducted Emission	68
ANNEX A EUT Photos		71
ANNEX B Deviations from Prescribed Test Methods		72

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1. Test Laboratory

1.1. Testing Location

Name:	Chongqing Academy of Information and Communications Technology
Designation Number:	CN1239
IC Registration Number:	29397
Address:	No.19 EastRoad,Xiantao Big-data Valley,Yubei District,Chongqing,People's Republic of China
Postal Code:	401336
Telephone:	0086-23-88069965
Fax:	0086-23-88608777

1.2. Testing Environment

Normal Temperature:	15-35°C
Relative Humidity:	30-60%

1.3. Project data

Testing Start Date:	2025-04-18
Testing End Date:	2025-05-30

1.4. Signature

2025-06-23

Dong Junxin
(Prepared this test report)

Date

2025-06-23

Wang Lili
(Reviewed this test report)

Date

2025-06-26

Zhou Jin
Director of the laboratory
(Approved this test report)

Date

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2. Client Information

2.1. Applicant Information

Company Name:	Shanghai Sunmi Technology Co.,Ltd.
Address /Post:	Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China
City:	ShangHai
Country:	China
Telephone:	+86 13510126210
Fax:	N/A
Email:	chan.yang@sunmi.com
Contact Person:	Emma Yang

2.2. Manufacturer Information

Company Name:	Shanghai Sunmi Technology Co.,Ltd.
Address /Post:	Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China
City:	ShangHai
Country:	China
Telephone:	+86 13510126210
Fax:	N/A
Email:	chan.yang@sunmi.com
Contact Person:	Emma Yang

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3. Equipment under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

EUT Description	Cloud POS Printer
Model name	NT320
Brand name	SUNMI
BLUETOOTH Frequency Band	2402MHz-2480MHz
Type of BLE modulation	GFSK
HVIN	NT320
Extreme Temperature	0/+40°C
Nominal Test Voltage	5V
Extreme Test High Voltage	5.25V
Extreme Test Low Voltage	4.75V

Note1: Photographs of EUT are shown in ANNEX A of this test report.

Note2: High and low voltage values in extreme condition test are given by manufacturer.

Note3: The Extreme Temperature is provided by the manufacturer and has not been verified by the laboratory.

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
25B02W000009#S4	N507D53S10180	80CC_MB_X2600_V5.0	V4.1.17	2025-04-16
25B02W000009#S3	N507D53S10198	80CC_MB_X2600_V5.0	V4.1.17	2025-04-16

*EUT ID: is used to identify the test sample in the lab internally.

No.	Item(s)	Data
1	Antenna gain of EUT	2.7 dBi

Note: The data of antenna gain is provided by the Antenna specification may affect the validity of the test results in this report, and the impact and consequences of this shall be undertaken by the customer.

3.3. Outline of Equipment under Test

Technology	Band	UL Freq.(MHz)	DL Freq.(MHz)	Channel Separation
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BLE	CH0-39	2402-2480	2MHz
-----	--------	-----------	------

Test frequency list:

BLE	Channel	0	19	39
	Freq. (MHz)	2402	2440	2480

Emissions Information:

TestMode	Frequency Min(MHz)	Frequency Max(MHz)	Max OutPut Power(dBm)	Max OutPut Power(W)	OBW (kHz)	Necessary Bandwidth & Emission Classification
BLE_1M	2402	2480	10.85	0.0122	1060	1M06F1D
BLE_2M	2402	2480	10.67	0.0117	2076	2M08F1D
BLE_125K	2402	2480	10.68	0.0117	1060	1M06F1D
BLE_500K	2402	2480	10.70	0.0117	1048	1M05F1D

Note: This report is for BLE only.

3.4. Internal Identification of AE used during the test

AE ID*	Description	Note	dB*
C1	RF cable	--	0.8
C2	USB Cable	--	--
Q3	Notebook PC	Lenovo X1 Carbon	--
A1	PC Adapter	--	--

AE ID*: is used to identify the test sample in the lab internally.

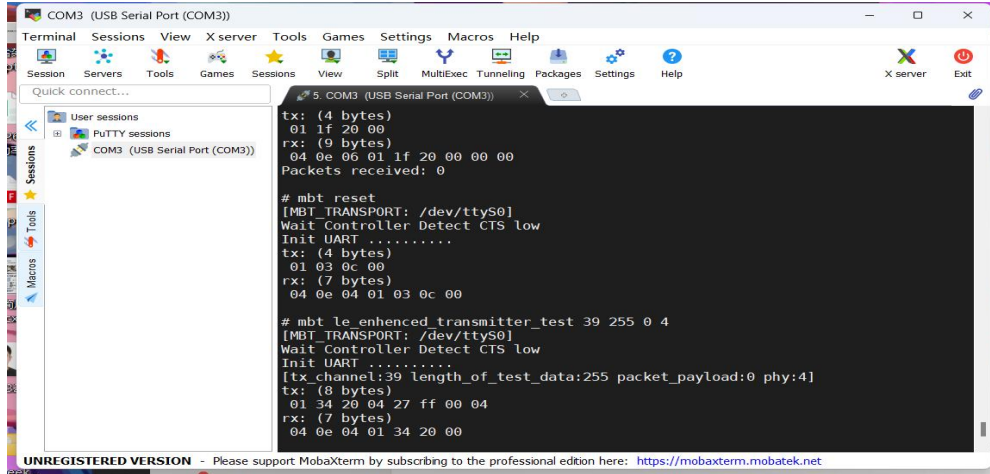
dB*: is provided customer.

3.5. EUT Test RF Configuration

EUT uses engineering mode to control RF emissions, changing power levels, channels, rates, and HT.

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```
COM3 (USB Serial Port (COM3))
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
User sessions
PuTTY sessions
COM3 (USB Serial Port (COM3))

tx: (4 bytes)
01 1f 20 00
rx: (9 bytes)
04 0e 06 01 1f 20 00 00 00
Packets received: 0

# mbt reset
[MBT_TRANSPORT: /dev/ttyS0]
Wait Controller Detect CTS low
Init UART .....
tx: (4 bytes)
01 03 0e 00
rx: (7 bytes)
04 0e 04 01 03 0c 00

# mbt le_enhanced_transmitter_test 39 255 0 4
[MBT_TRANSPORT: /dev/ttyS0]
Wait Controller Detect CTS low
Init UART .....
[tx_channel:39 length_of_test_data:255 packet_payload:0 phy:4]
tx: (8 bytes)
01 34 20 04 27 ff 00 04
rx: (7 bytes)
04 0e 04 01 34 20 00

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4. Reference Documents

4.1. Documents supplied by applicant

PICS/PIXIT, referring to Annex B for detailed information, is supplied by the client or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations	--
FCC Part 15C	FCC CFR 47, Part 15, Subpart C: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.247 Operation within the bands 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz	--
RSS-Gen Issue 5	General Requirements for Compliance of Radio Apparatus	2021
RSS-247 Issue 3	Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSS) and Licence-Exempt Local Area Network (LE-LAN) Devices	2023
ANSI C63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	2013
KDB 558074 D01	Guidance for Performing Compliance Measurements on Frequency Hopping Spread Spectrum systems (DSS) Operating Under §15.247	v05r02
Note:FCC Part 2 and KDB 558074 D01 is not A2LA certified.		

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5. Test Equipments Utilized

5.1. RF Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacture	Cal. Interval	Cal.Due Date
1	Spectrum analyzer	FSQ 26	201137	--	--	R&S	1 Year	2025-06-28

5.2. RSE Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacture	Cal. Interval	Cal.Due Date
1	EMI Test Receiver	ESU40	100307	--	--	R&S	1 Year	2025-06-28
2	TRILOG Broadband Antenna	VULB9163	9163-586	--	--	Schwarzbeck	2 Years	2026-10-28
3	Horn antenna	9120D	1083	--	--	Schwarzbeck	2 Years	2026-11-08
4	Horn antenna	DATE 1152	LM7127	--	--	ETS	2 Years	2026-09-30
5	Horn antenna	DATE 1012	LM5945	--	--	ETS	2 Years	2026-09-30
6	Loop Antenna	6502	00143163	--	--	ETS	2 Year	2026-09-04
7	Amplifier1	SCU-08F1	8320027	--	--	R&S	--	--
8	Amplifier2	SCU-18F	180093	--	--	R&S	--	--
9	2-Line V-Network	ENV216	102368	--	--	R&S	1 Year	2026-05-23
10	Test Receiver	ESR 3	101382	03	3.48 SP2	R&S	1 Year	2025-06-28
11	Test Receiver	ESW 26	101382	00	1.50 SP1	R&S	1 Year	2025-06-28

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5.3. Climate Chamber

No.	Name	Type	SN	Manufacture	Cal. Interval	Cal.Due Date
--	--	--	--	--	--	--

5.4. Anechoic chamber Vibration table

No.	Name	Type	SN	Manufacture	Cal. Interval	Cal.Due Date
1	Fully-Anechoic Chamber	FAC 5	--	TDK	3 Years	2027-11-04
2	Anechoic Chamber	SAC 10	--	TDK	3 Years	2027-11-05

5.5. Test software

No.	Name	version	SN	Manufacture
1	EMC32 (Transmitter Spurious Emission-Radiated Above 1GHz)	V9.26.01	--	R&S
2	EMC32 (Transmitter Spurious Emission-Radiated Below 1GHz)	V 10.20.01	--	R&S
3	EMC32 (AC Powerline Conducted Emission)	V 10.40.10	--	R&S
4	WIFI/BT CE/FCC/ICautomated testing software	V1.0.0.0	--	Beijing Zhiwang Xince Technology Co., Ltd

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6. Test Results

6.1. Summary of Test Results

FCC Rules	IC Rules	Name of Test	Result
15.247(b)	RSS-247 5.4	Maximum Peak Output Power	Pass
15.247(e)	RSS-247 5.2	Peak Power Spectral Density	Pass
15.247(a)	RSS-247 5.2	6dB Occupied Bandwidth	Pass
2.1049	RSS-GEN 6.7	99% Occupied Bandwidth	Pass ^{note2}
15.247(d)	RSS-247 5.5	Band Edges Compliance	Pass
15.247(d)	RSS-247 5.5	Transmitter Spurious Emission-Conducted	Pass
15.247/15.205/15.209	RSS-GEN 8.9, 8.10	Transmitter Spurious Emission-Radiated	Pass
15.207	RSS-GEN 8.8	AC Powerline Conducted Emission	Pass
15.203/15.247(c)	RSS Gen 6.8, RSS-247 5.4	Antenna requirement	Pass ^{Note1}
NOTE 1:Bluetooth used an Internal antenna with max Gain 2.7 dBi that complied with 15.203/15.247(c) Requirements.			
NOTE 2: This project has no restrictions on requirements.			

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6.2. Peak Output Power-Conducted

Specifications:	FCC Part 15.247(b), RSS-247 5.4
DUT Serial Number:	N507D53S10180
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

Standard	Conducted Limit(dBm)	EIRP Limit(dBm)
FCC Part 15.247(b)(3)	<30	N/A
RSS-247 5.4	<30	<36

Measurement Uncertainty:

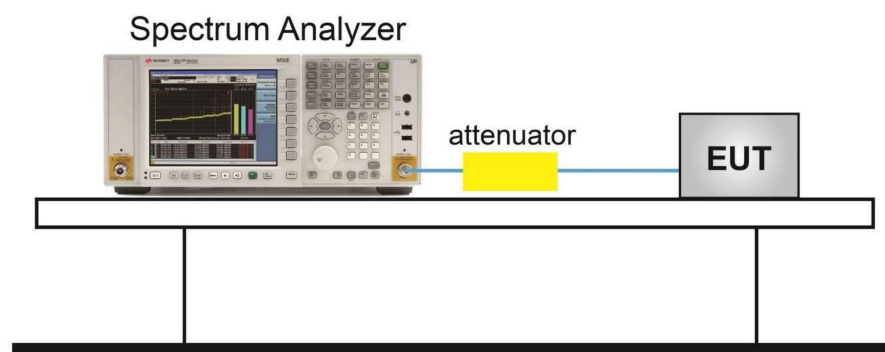
Measurement Uncertainty	0.36dB
-------------------------	--------

Test Procedure:

The measurement is according to ANSI C63.10 clause 11.9.1,

1. Set the RBW $\geq$ DTS bandwidth.
2. Set VBW $\geq [3 \times \text{RBW}]$.
3. Set span $\geq [3 \times \text{RBW}]$.
4. Sweep time = auto couple.
5. Detector = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use peak marker function to determine the peak amplitude level.

Test setup:



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Antenna gain of EUT:

No.	Item(s)	Data
1	Antenna gain of EUT	2.7dBi

Note: The data is provided by the customer may affect the validity of the test results in this report, and the impact and consequences of this shall be undertaken by the customer.

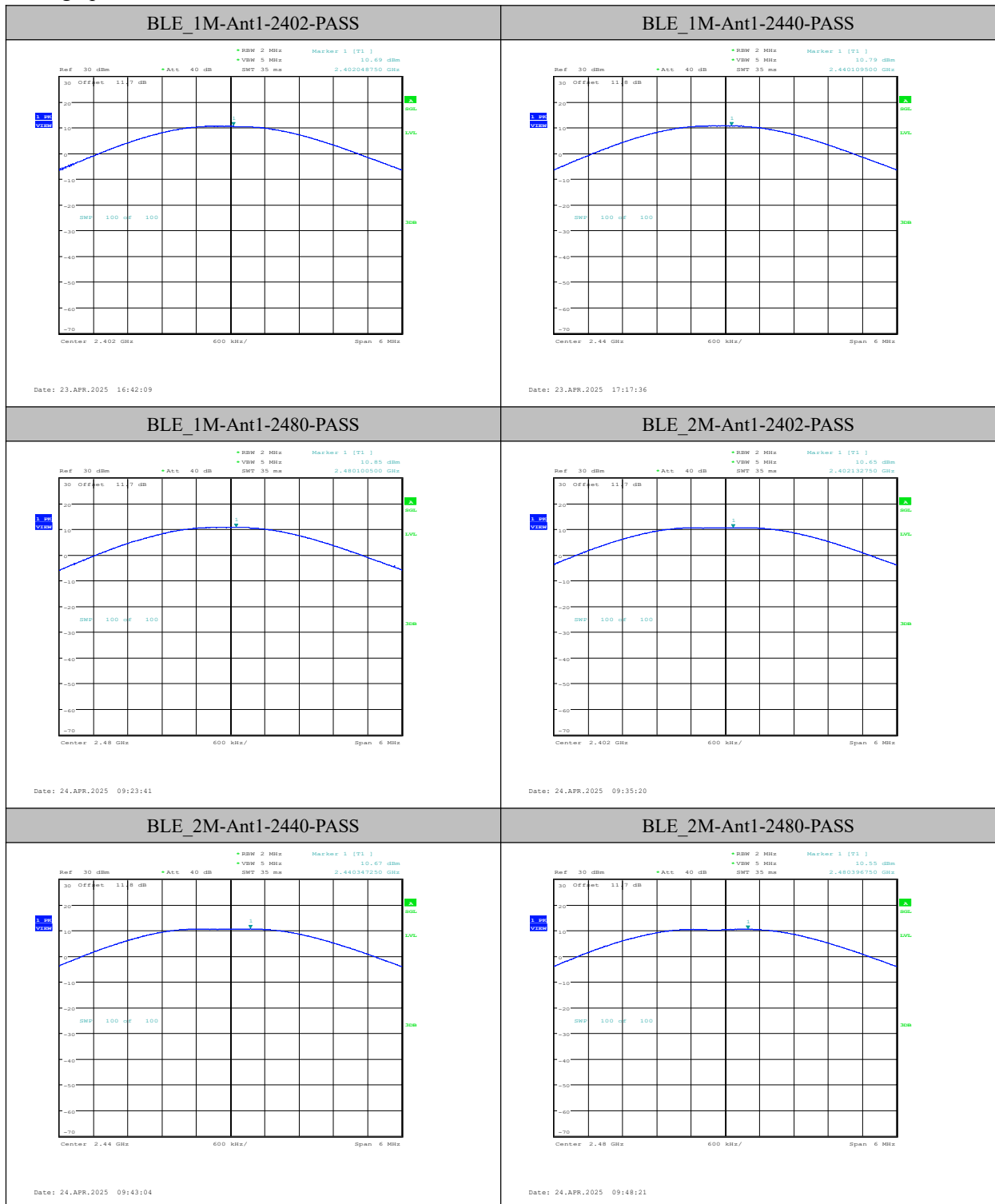
Measurement Results:

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	10.69	≤30	13.39	≤36	PASS
BLE_1M	Ant1	2440	10.79	≤30	13.49	≤36	PASS
BLE_1M	Ant1	2480	10.85	≤30	13.55	≤36	PASS
BLE_2M	Ant1	2402	10.65	≤30	13.35	≤36	PASS
BLE_2M	Ant1	2440	10.67	≤30	13.37	≤36	PASS
BLE_2M	Ant1	2480	10.55	≤30	13.25	≤36	PASS
BLE_125K	Ant1	2402	10.65	≤30	13.35	≤36	PASS
BLE_125K	Ant1	2440	10.68	≤30	13.38	≤36	PASS
BLE_125K	Ant1	2480	10.53	≤30	13.23	≤36	PASS
BLE_500K	Ant1	2402	10.64	≤30	13.34	≤36	PASS
BLE_500K	Ant1	2440	10.70	≤30	13.40	≤36	PASS
BLE_500K	Ant1	2480	10.59	≤30	13.29	≤36	PASS

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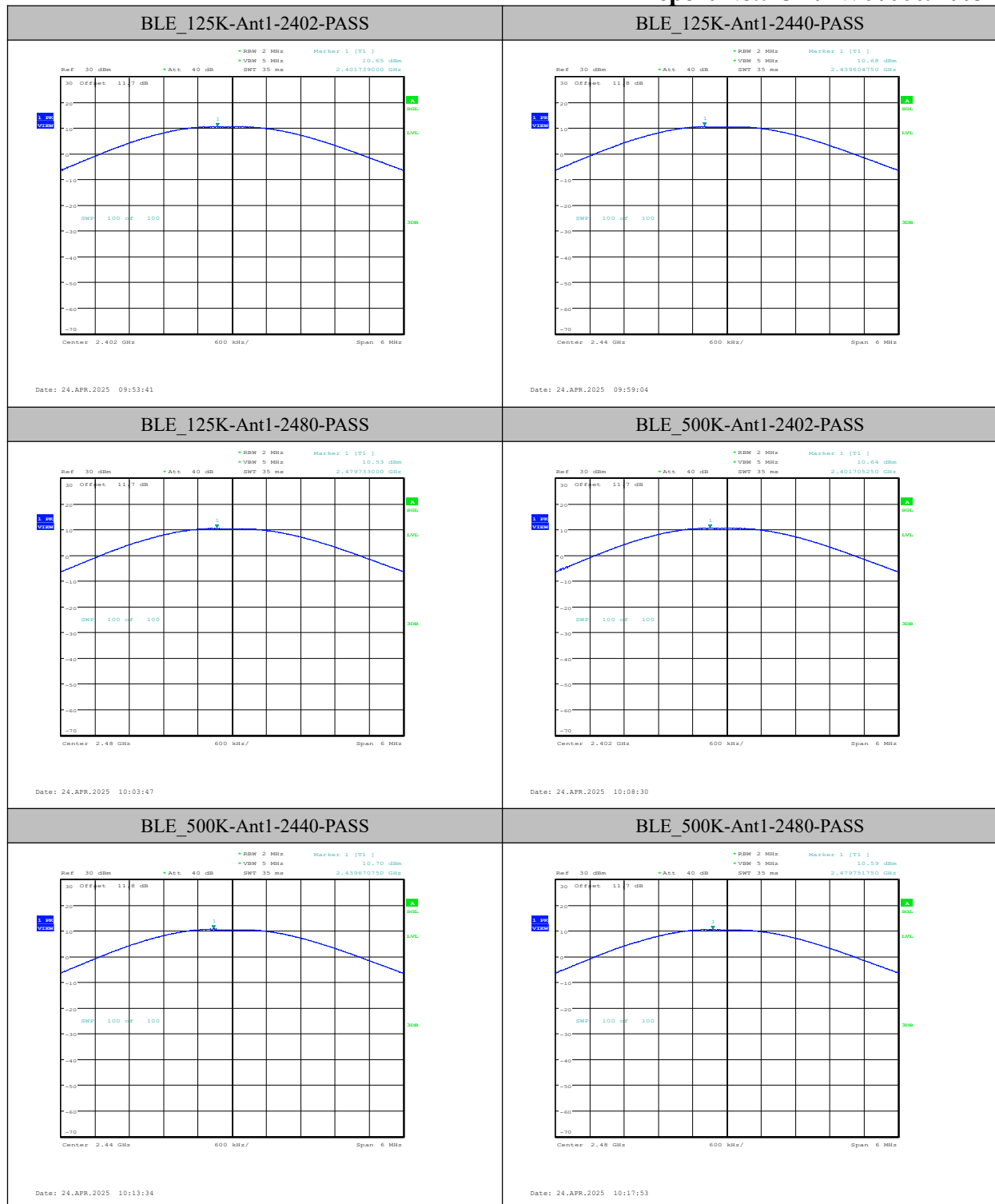
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Test graphs as below



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6.3. Peak Power Spectral Density

Specifications:	FCC Part 15.247(e), RSS-247 5.2
DUT Serial Number:	N507D53S10180
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

Standard	Limit
FCC Part 15.247(e)	$\leq 8\text{dBm}/3\text{ kHz}$
RSS-247 5.2	$\leq 8\text{dBm}/3\text{ kHz}$

Measurement Uncertainty:

Measurement Uncertainty	0.36dB
-------------------------	--------

Test procedures:

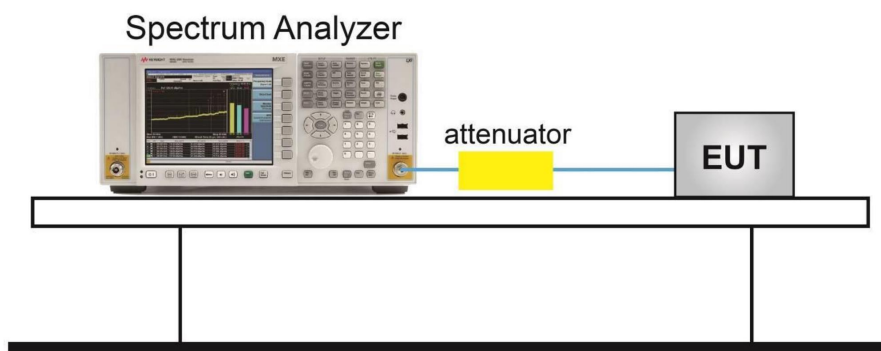
The measurement is according to ANSI C63.10 clause 11.10.

1. The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Enable EUT transmitter maximum power continuously.
3. Set analyzer center frequency to DTS channel center frequency.
4. Set the span to 1.5 times the DTS bandwidth.
5. Set the RBW to $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
6. Set the VBW $\geq [3 \times \text{RBW}]$.
7. Detector = peak.
8. Sweep time = auto couple.
9. Trace mode = max hold.
10. Allow trace to fully stabilize.
11. Use the peak marker function to determine the maximum amplitude level within the RBW.
12. If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

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Test Setup



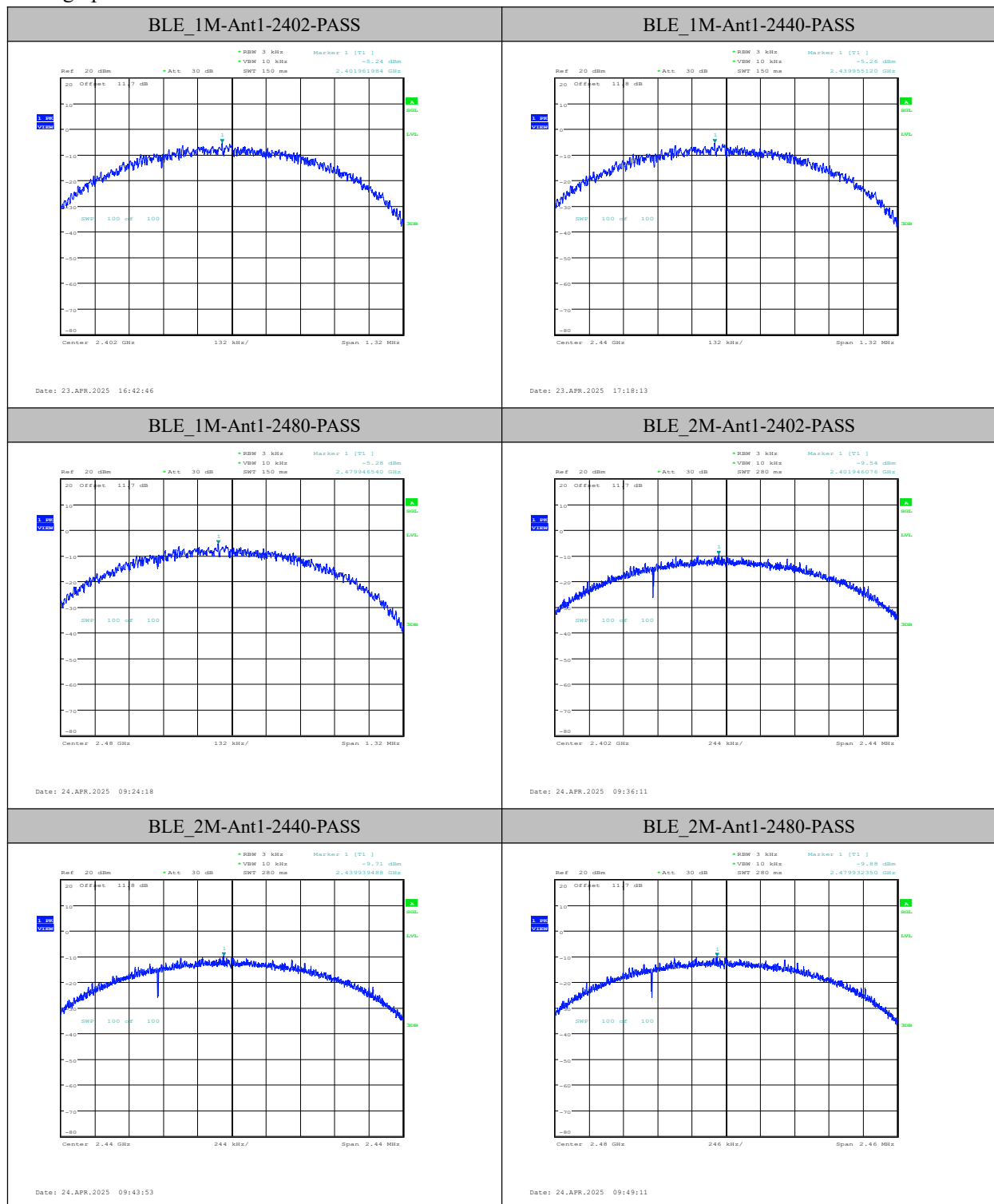
Measurement Results:

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-5.24	≤8.00	PASS
BLE_1M	Ant1	2440	-5.26	≤8.00	PASS
BLE_1M	Ant1	2480	-5.28	≤8.00	PASS
BLE_2M	Ant1	2402	-9.54	≤8.00	PASS
BLE_2M	Ant1	2440	-9.71	≤8.00	PASS
BLE_2M	Ant1	2480	-9.88	≤8.00	PASS
BLE_125K	Ant1	2402	4.22	≤8.00	PASS
BLE_125K	Ant1	2440	4.15	≤8.00	PASS
BLE_125K	Ant1	2480	3.96	≤8.00	PASS
BLE_500K	Ant1	2402	3.97	≤8.00	PASS
BLE_500K	Ant1	2440	3.95	≤8.00	PASS
BLE_500K	Ant1	2480	3.73	≤8.00	PASS

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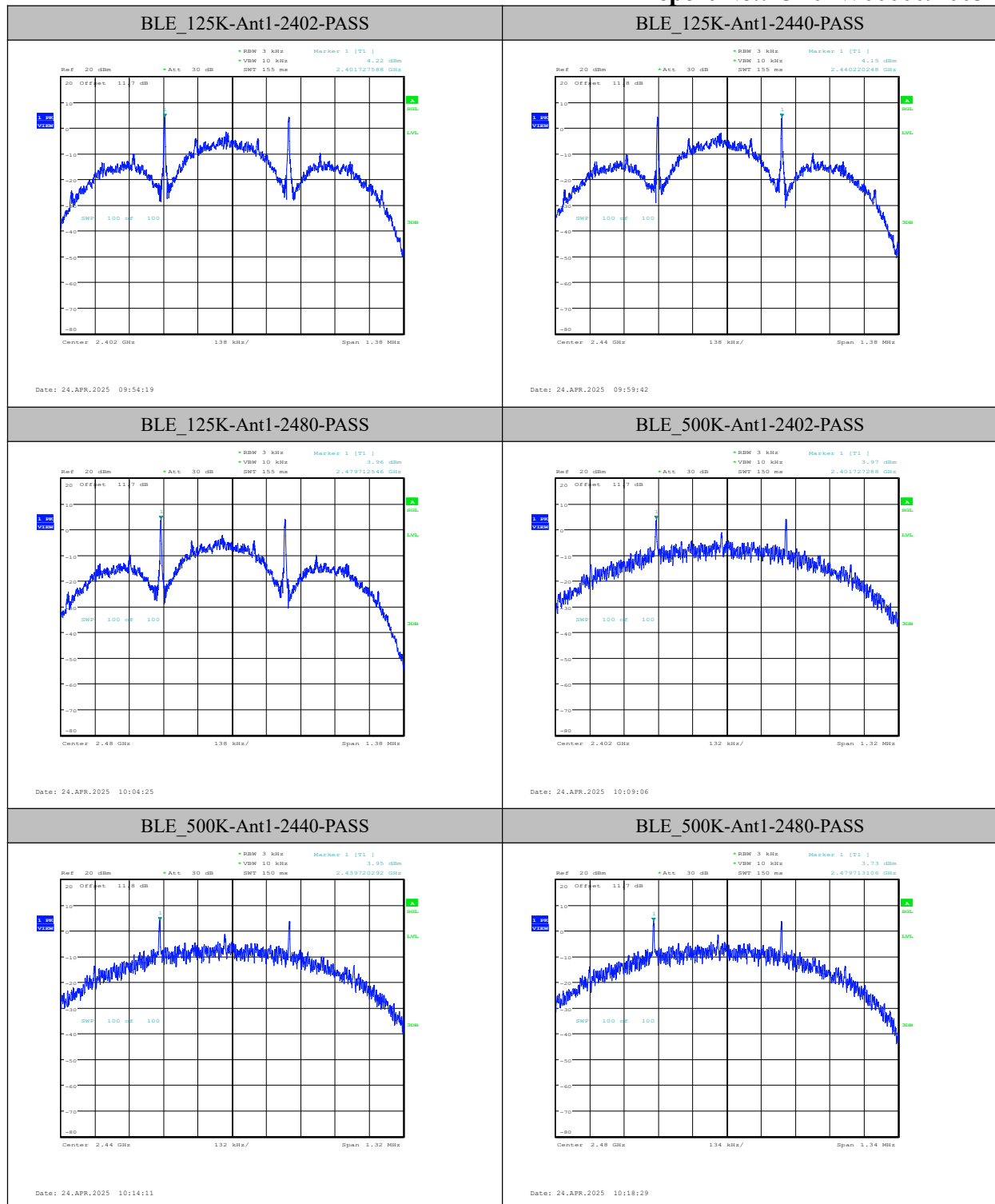
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Test graphs as below



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6.4. 6dB Bandwidth

Specifications:	FCC Part 15.247 (a) (2), RSS-247 5.2
DUT Serial Number:	N507D53S10180
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

Standard	Limit
FCC Part 15.247 (a) (2)	$\geq 500\text{kHz}$
RSS-247 5.2	$\geq 500\text{kHz}$

Measurement Uncertainty:

Measurement Uncertainty	3.6kHz
-------------------------	--------

Test procedures:

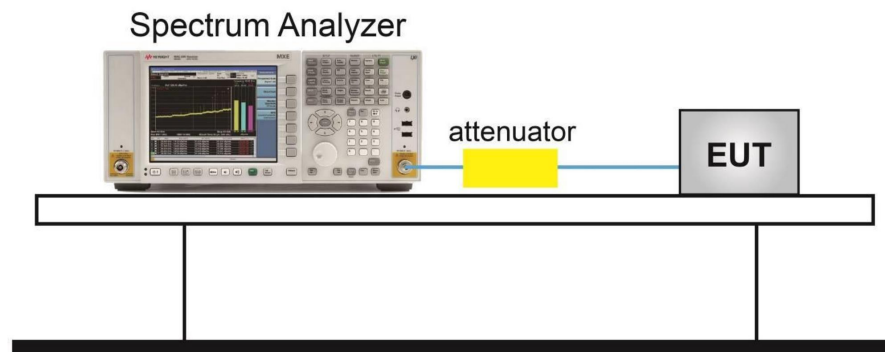
The measurement is according to ANSI C63.10 clause 11.8.

1. The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Enable EUT transmitter maximum power continuously.
3. Set RBW = 100 kHz.
4. Set the VBW $\geq [3 \times \text{RBW}]$.
5. Detector = peak.
6. Trace mode = max hold.
7. Sweep = auto couple.
8. Allow the trace to stabilize.
9. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

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Test Setup:



Measurement Results:

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.66	2401.65	2402.31	0.5	PASS
BLE_1M	Ant1	2440	0.66	2439.64	2440.30	0.5	PASS
BLE_1M	Ant1	2480	0.66	2479.64	2480.30	0.5	PASS
BLE_2M	Ant1	2402	1.22	2401.34	2402.56	0.5	PASS
BLE_2M	Ant1	2440	1.22	2439.33	2440.56	0.5	PASS
BLE_2M	Ant1	2480	1.23	2479.32	2480.55	0.5	PASS
BLE_125K	Ant1	2402	0.69	2401.64	2402.32	0.5	PASS
BLE_125K	Ant1	2440	0.69	2439.63	2440.32	0.5	PASS
BLE_125K	Ant1	2480	0.69	2479.62	2480.31	0.5	PASS
BLE_500K	Ant1	2402	0.66	2401.66	2402.31	0.5	PASS
BLE_500K	Ant1	2440	0.66	2439.64	2440.31	0.5	PASS
BLE_500K	Ant1	2480	0.67	2479.64	2480.31	0.5	PASS

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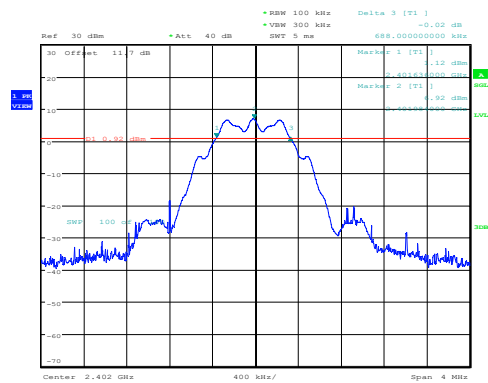
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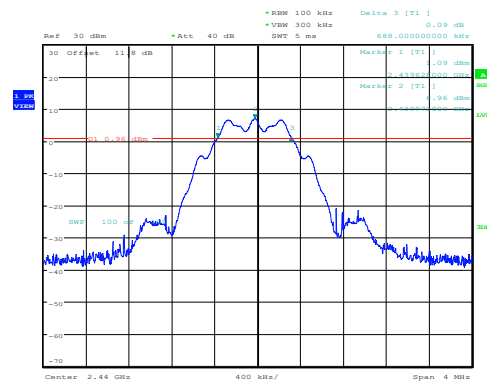
Test graphs as below



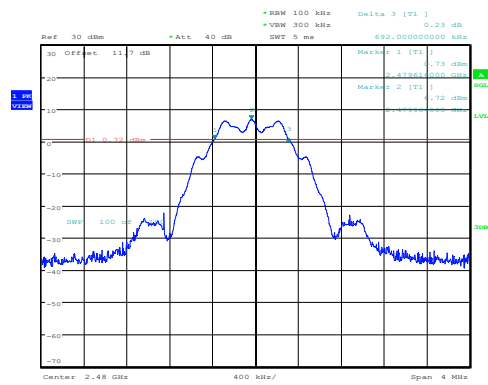
Page 24 of 72

BLE_125K-Ant1-2402-PASS


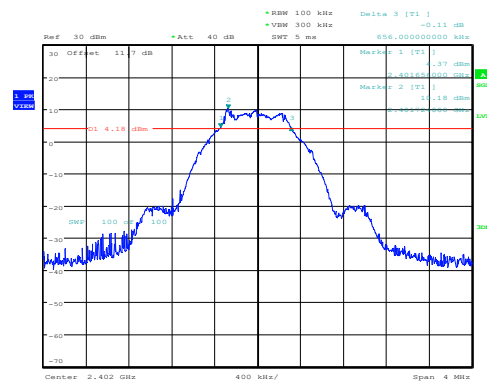
Date: 24.APR.2025 09:53:09

BLE_125K-Ant1-2440-PASS


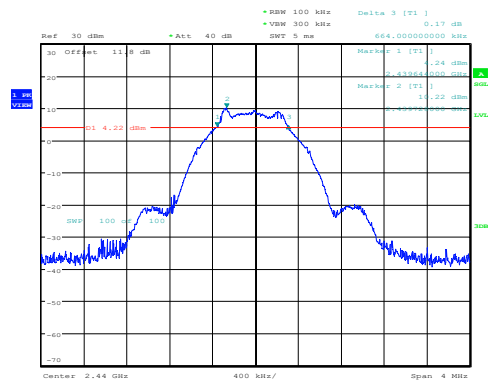
Date: 24.APR.2025 09:58:33

BLE_125K-Ant1-2480-PASS


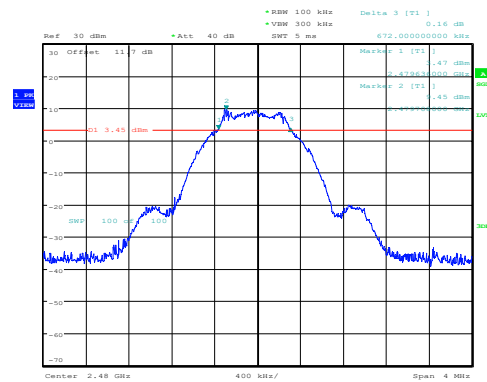
Date: 24.APR.2025 10:03:12

BLE_500K-Ant1-2402-PASS


Date: 24.APR.2025 10:07:57

BLE_500K-Ant1-2440-PASS


Date: 24.APR.2025 10:13:04

BLE_500K-Ant1-2480-PASS


Date: 24.APR.2025 10:17:18

6.5. 99% Occupied Bandwidth

Specifications:	2.1049,RSS-GEN 6.7
DUT Serial Number:	N507D53S10180
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	--

Measurement Uncertainty:

Measurement Uncertainty	3.6kHz
-------------------------	--------

Test procedures:

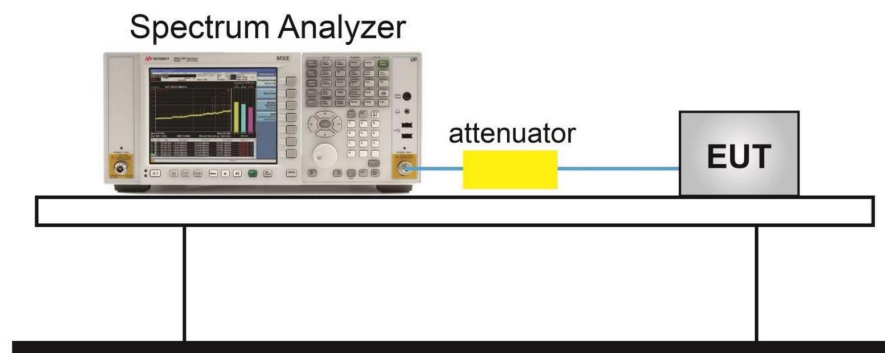
The measurement is according to ANSI C63.10 clause 6.9.3.

1. The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Enable EUT transmitter maximum power continuously.
3. Set RBW shall be in the range of 1% to 5% of the OBW.
4. Set the VBW $\geq [3 \times \text{RBW}]$.
5. Detector = peak.
6. Trace mode = max hold.
7. Sweep = auto couple.
8. Allow the trace to stabilize.
9. The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.

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Test setup:



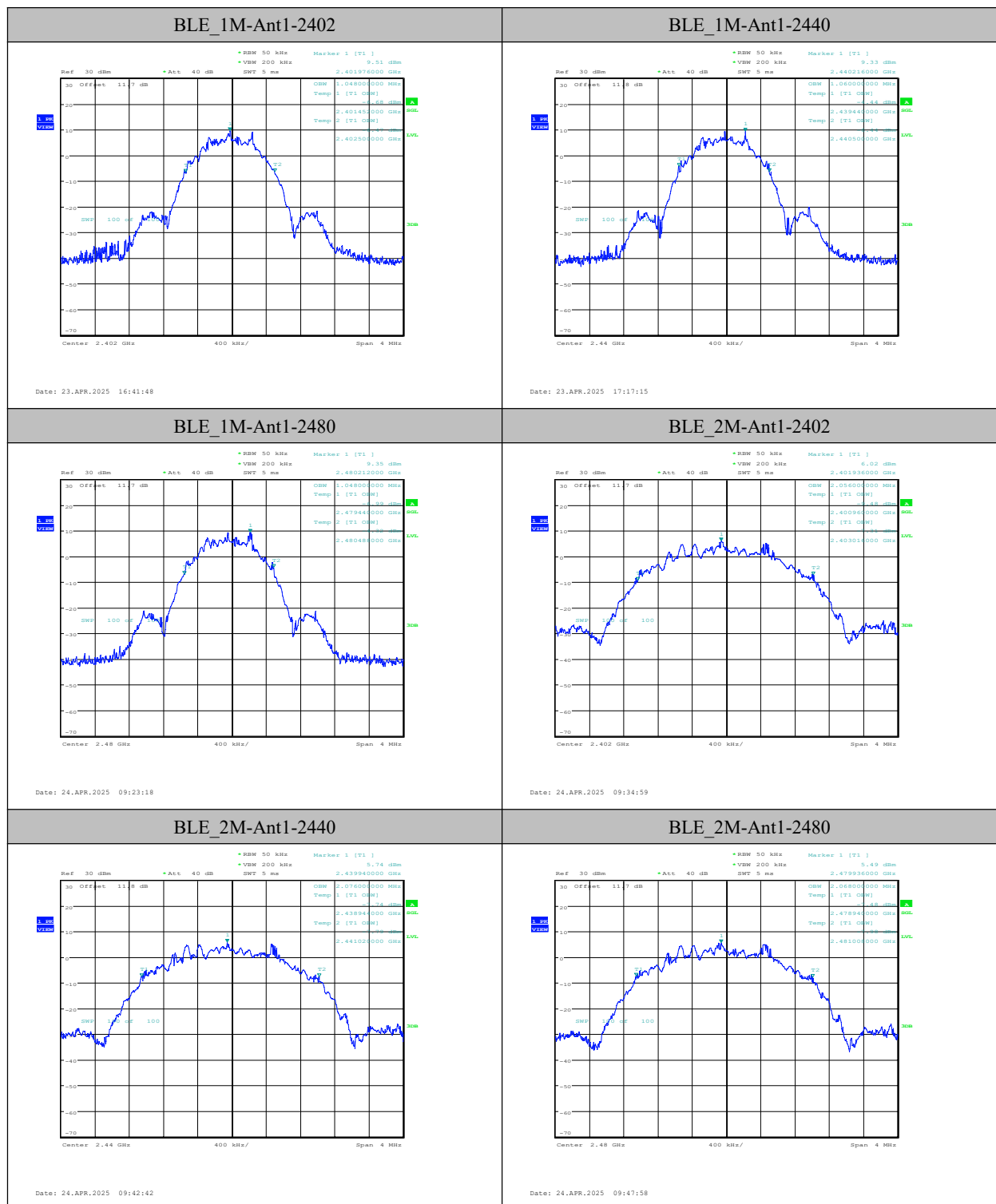
Measurement Results:

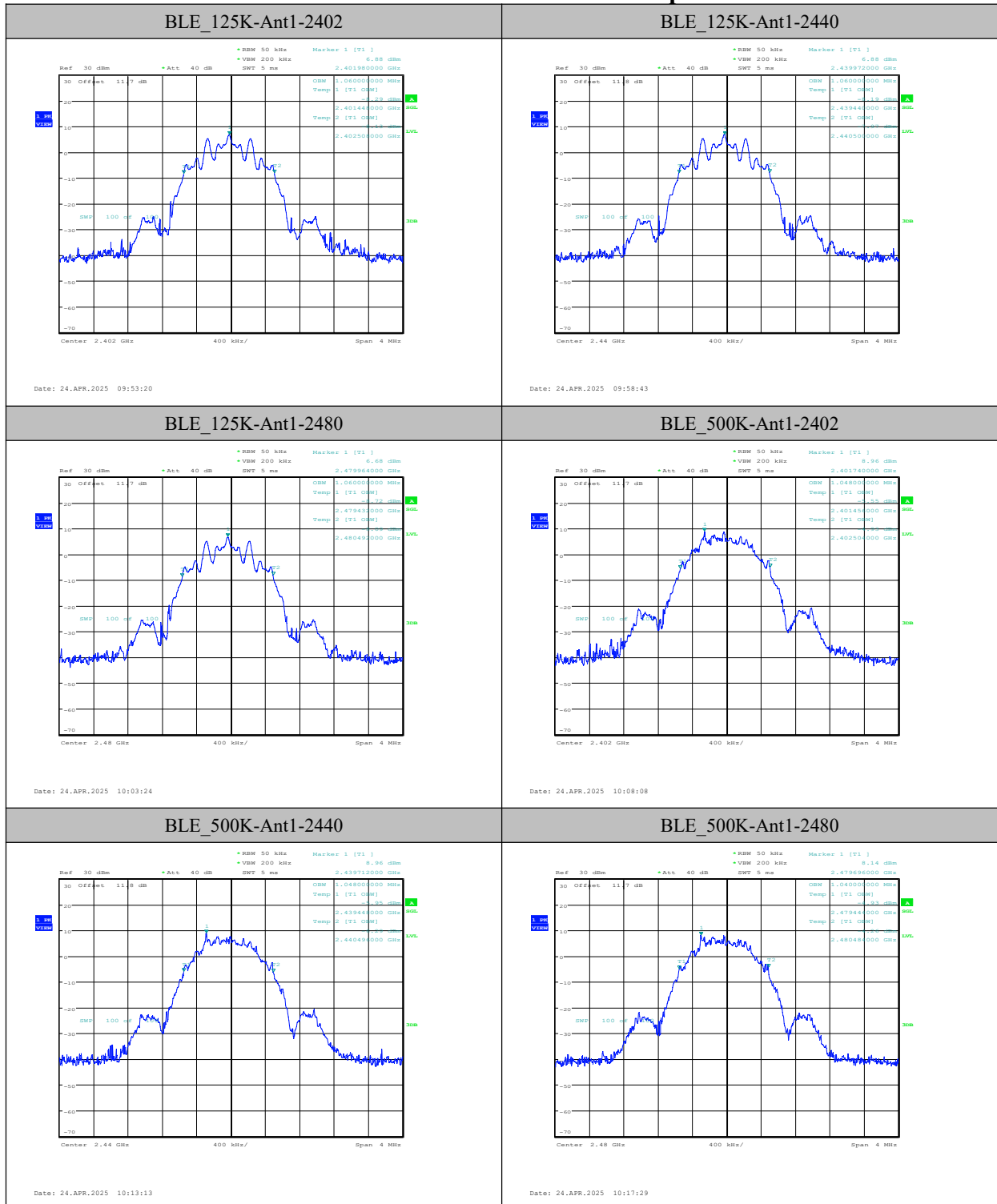
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
BLE_1M	Ant1	2402	1.048	2401.4520	2402.5000
BLE_1M	Ant1	2440	1.060	2439.4400	2440.5000
BLE_1M	Ant1	2480	1.048	2479.4400	2480.4880
BLE_2M	Ant1	2402	2.056	2400.9600	2403.0160
BLE_2M	Ant1	2440	2.076	2438.9440	2441.0200
BLE_2M	Ant1	2480	2.068	2478.9400	2481.0080
BLE_125K	Ant1	2402	1.060	2401.4480	2402.5080
BLE_125K	Ant1	2440	1.060	2439.4400	2440.5000
BLE_125K	Ant1	2480	1.060	2479.4320	2480.4920
BLE_500K	Ant1	2402	1.048	2401.4560	2402.5040
BLE_500K	Ant1	2440	1.048	2439.4480	2440.4960
BLE_500K	Ant1	2480	1.040	2479.4440	2480.4840

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Test graphs as below





6.6. Frequency Band Edges-Conducted

Specifications:	FCC Part 15.247(d), RSS-247 5.5
DUT Serial Number:	N507D53S10180
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

Standard	Limit(dBc)
FCC Part 15.247(d)	>20
RSS-247 5.5	>20

Measurement Uncertainty:

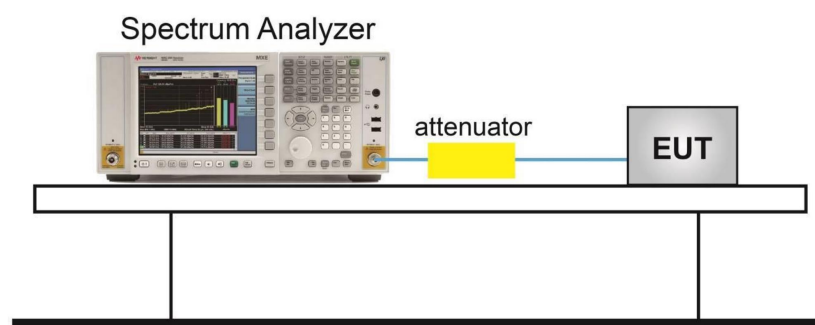
Measurement Uncertainty	0.56dB
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Test procedures:

The measurement is according to ANSI C63.10 clause 11.13.2

1. Span: Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band of operation.
2. Reference level: As required to keep the signal from exceeding the maximum instrument input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.
3. Attenuation: Auto (at least 10 dB preferred).
4. Sweep time: Coupled.
5. Resolution bandwidth: 100 kHz.6) Video bandwidth: 300 kHz.7) Detector: Peak.8) Trace: Max hold.

Test Setup:



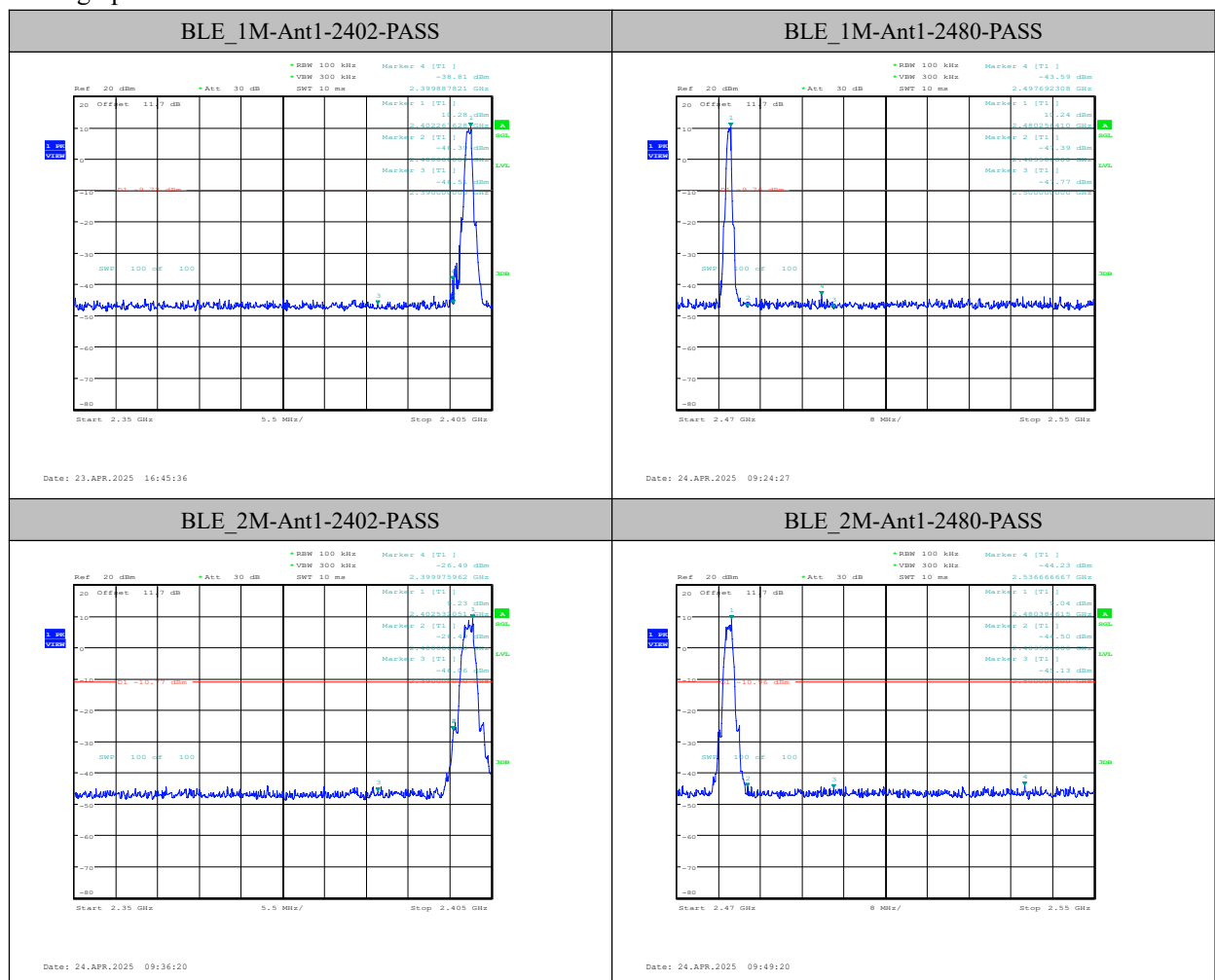
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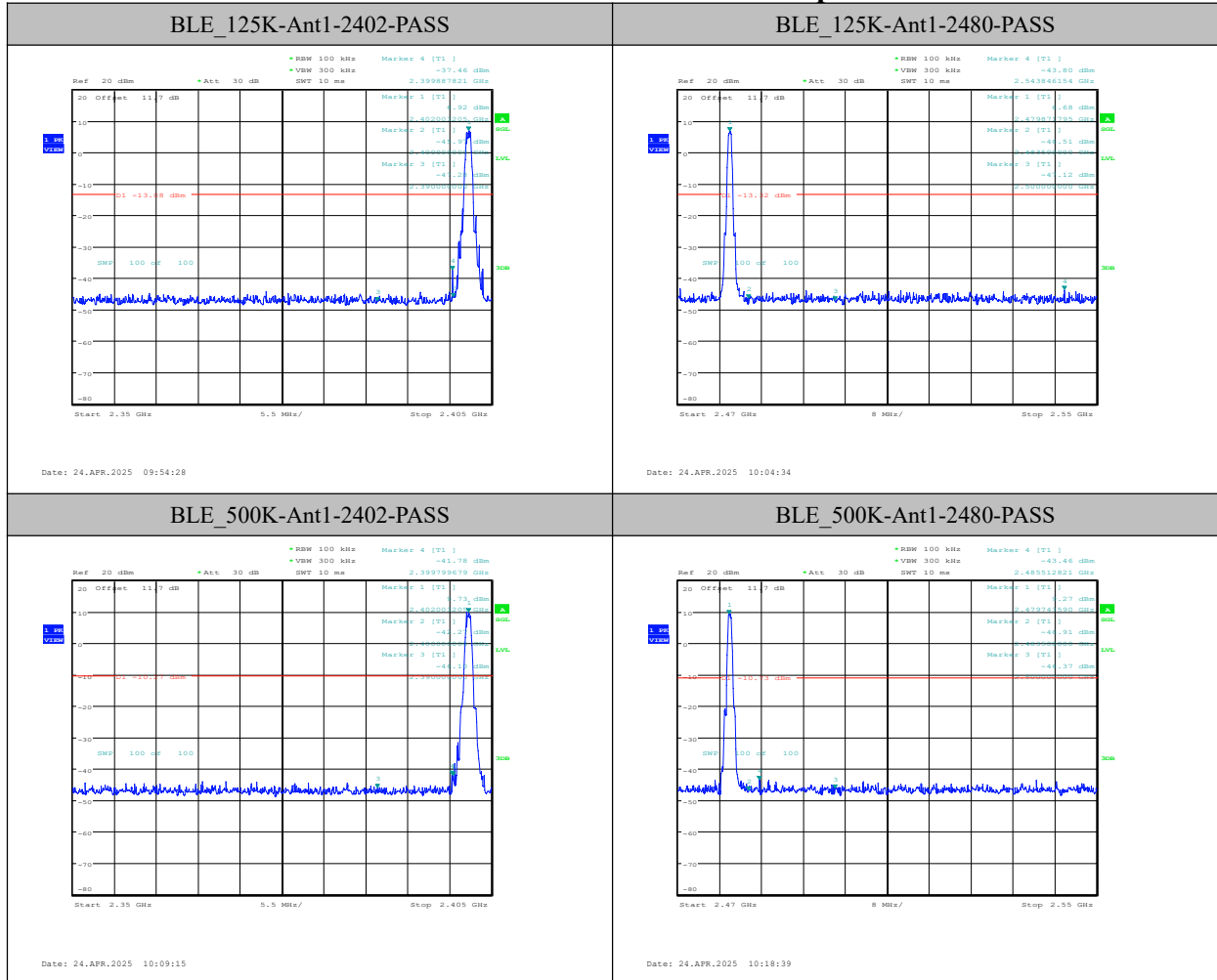
Measurement Results:

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	10.28	-38.81	≤-9.72	PASS
BLE_1M	Ant1	High	2480	10.24	-43.59	≤-9.76	PASS
BLE_2M	Ant1	Low	2402	9.23	-26.49	≤-10.77	PASS
BLE_2M	Ant1	High	2480	9.04	-44.23	≤-10.96	PASS
BLE_125K	Ant1	Low	2402	6.92	-37.46	≤-13.08	PASS
BLE_125K	Ant1	High	2480	6.68	-43.80	≤-13.32	PASS
BLE_500K	Ant1	Low	2402	9.73	-41.78	≤-10.27	PASS
BLE_500K	Ant1	High	2480	9.27	-43.46	≤-10.73	PASS

Test graphs as below


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6.7. Transmitter Spurious Emission-Conducted

Specifications:	FCC Part 15.247(d), RSS-247 5.5
DUT Serial Number:	N507D53S10180
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

Standard	Limit
FCC Part 15.247(d)	20dB below peak output power in 100KHz bandwidth
RSS-247 5.5	20dB below peak output power in 100KHz bandwidth

Measurement Uncertainty:

Measurement Uncertainty	0.56dB
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Test procedures:

This measurement is according to ANSI C63.10 clause 11.11.

1. The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Enable EUT transmitter maximum power continuously.

Reference level measurement

3. Set instrument center frequency to DTS channel center frequency.
4. Set the span to ≥ 1.5 times the DTS bandwidth.
5. Set the RBW = 100 kHz.
6. Set the VBW $\geq [3 \times \text{RBW}]$.
7. Detector = peak.
8. Sweep time = auto couple.
9. Trace mode = max hold.
10. Allow trace to fully stabilize.
11. Use the peak marker function to determine the maximum PSD level.

Emission level measurement

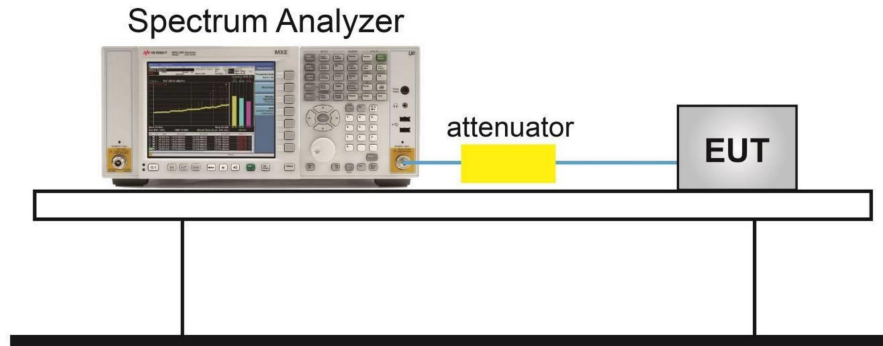
1. Set the center frequency and span to encompass frequency range to be measured.
2. Set the RBW = 100 kHz.
3. Set the VBW $\geq [3 \times \text{RBW}]$.
4. Detector = peak.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.

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8. Use the peak marker function to determine the maximum amplitude level

Test Setup:



Measurement Results:

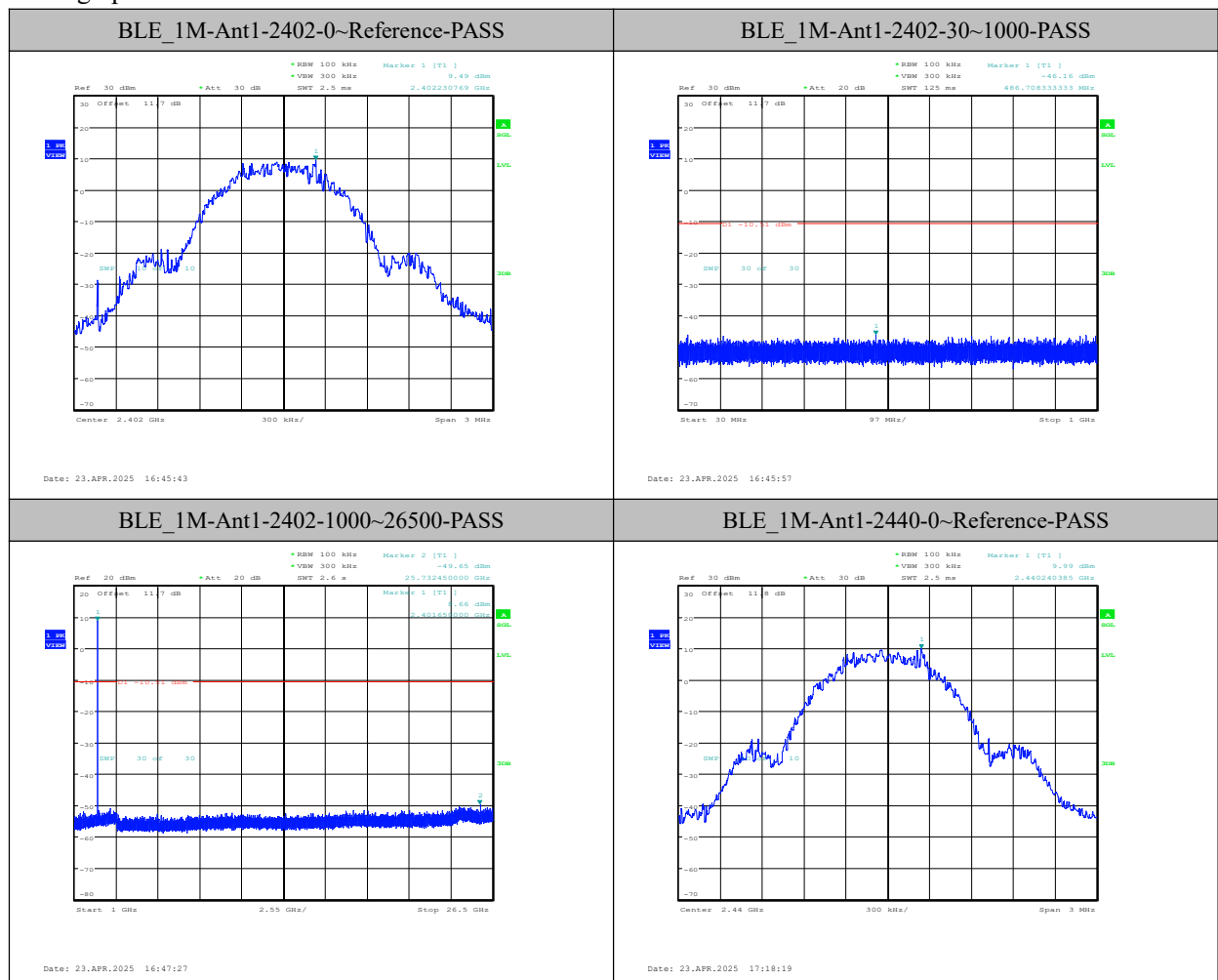
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	9.49	9.49	---	PASS
BLE_1M	Ant1	2402	30~1000	9.49	-46.16	≤-10.51	PASS
BLE_1M	Ant1	2402	1000~26500	9.49	-49.65	≤-10.51	PASS
BLE_1M	Ant1	2440	0~Reference	9.99	9.99	---	PASS
BLE_1M	Ant1	2440	30~1000	9.99	-46.22	≤-10.01	PASS
BLE_1M	Ant1	2440	1000~26500	9.99	-49.73	≤-10.01	PASS
BLE_1M	Ant1	2480	0~Reference	9.32	9.32	---	PASS
BLE_1M	Ant1	2480	30~1000	9.32	-45.82	≤-10.68	PASS
BLE_1M	Ant1	2480	1000~26500	9.32	-43.79	≤-10.68	PASS
BLE_2M	Ant1	2402	0~Reference	6.77	6.77	---	PASS
BLE_2M	Ant1	2402	30~1000	6.77	-46.34	≤-13.23	PASS
BLE_2M	Ant1	2402	1000~26500	6.77	-49.65	≤-13.23	PASS
BLE_2M	Ant1	2440	0~Reference	7.62	7.62	---	PASS
BLE_2M	Ant1	2440	30~1000	7.62	-46.05	≤-12.38	PASS
BLE_2M	Ant1	2440	1000~26500	7.62	-43.86	≤-12.38	PASS
BLE_2M	Ant1	2480	0~Reference	7.30	7.30	---	PASS
BLE_2M	Ant1	2480	30~1000	7.30	-46.45	≤-12.70	PASS
BLE_2M	Ant1	2480	1000~26500	7.30	-49.91	≤-12.70	PASS
BLE_125K	Ant1	2402	0~Reference	6.88	6.88	---	PASS
BLE_125K	Ant1	2402	30~1000	6.88	-46.50	≤-13.12	PASS
BLE_125K	Ant1	2402	1000~26500	6.88	-49.26	≤-13.12	PASS
BLE_125K	Ant1	2440	0~Reference	6.78	6.78	---	PASS
BLE_125K	Ant1	2440	30~1000	6.78	-46.31	≤-13.22	PASS

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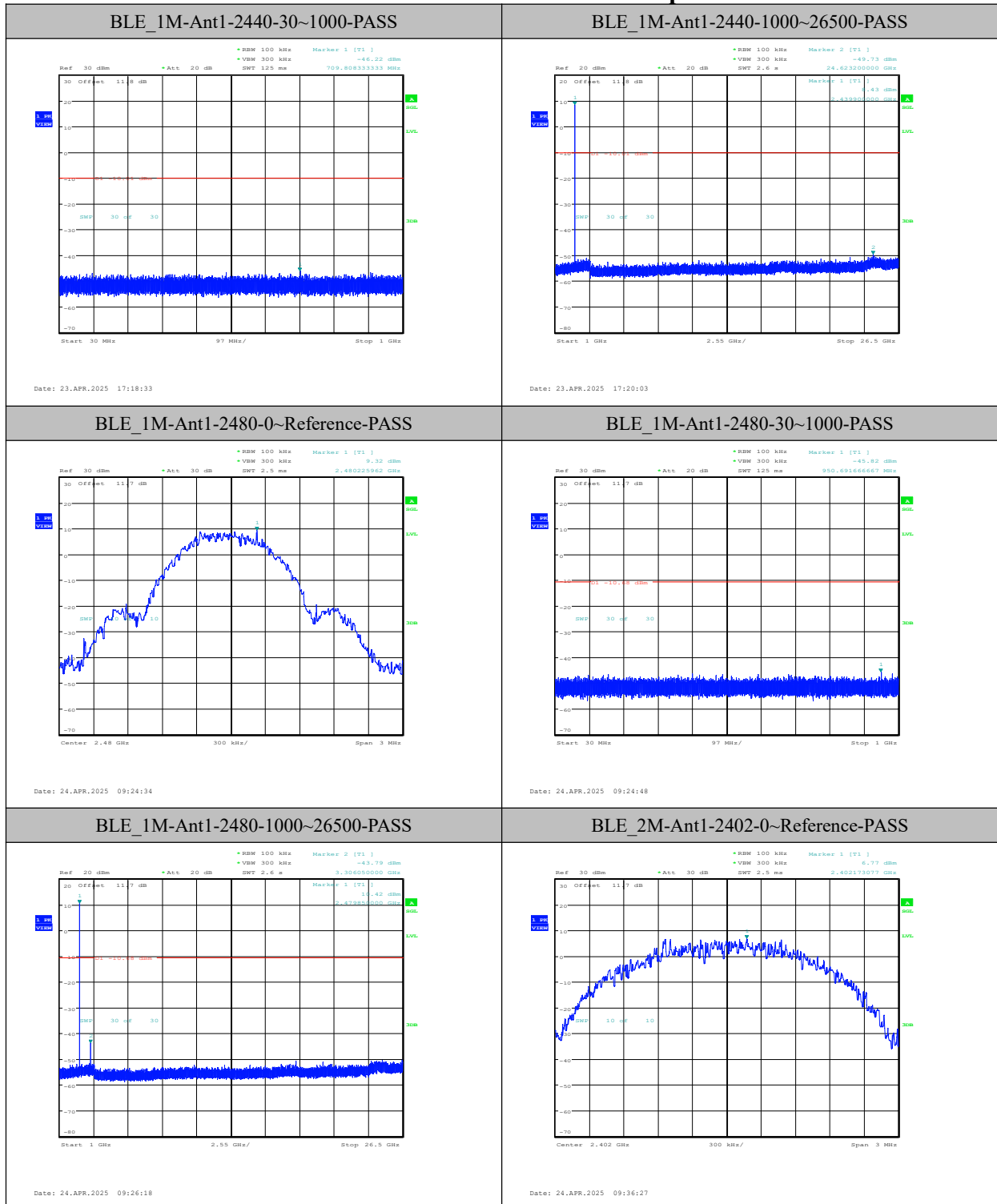
BLE_125K	Ant1	2440	1000~26500	6.78	-36.62	≤-13.22	PASS
BLE_125K	Ant1	2480	0~Reference	6.42	6.42	---	PASS
BLE_125K	Ant1	2480	30~1000	6.42	-46.12	≤-13.58	PASS
BLE_125K	Ant1	2480	1000~26500	6.42	-50.39	≤-13.58	PASS
BLE_500K	Ant1	2402	0~Reference	9.70	9.70	---	PASS
BLE_500K	Ant1	2402	30~1000	9.70	-45.62	≤-10.30	PASS
BLE_500K	Ant1	2402	1000~26500	9.70	-44.91	≤-10.30	PASS
BLE_500K	Ant1	2440	0~Reference	10.10	10.10	---	PASS
BLE_500K	Ant1	2440	30~1000	10.10	-46.35	≤-9.90	PASS
BLE_500K	Ant1	2440	1000~26500	10.10	-46.89	≤-9.90	PASS
BLE_500K	Ant1	2480	0~Reference	8.51	8.51	---	PASS
BLE_500K	Ant1	2480	30~1000	8.51	-45.43	≤-11.49	PASS
BLE_500K	Ant1	2480	1000~26500	8.51	-48.92	≤-11.49	PASS

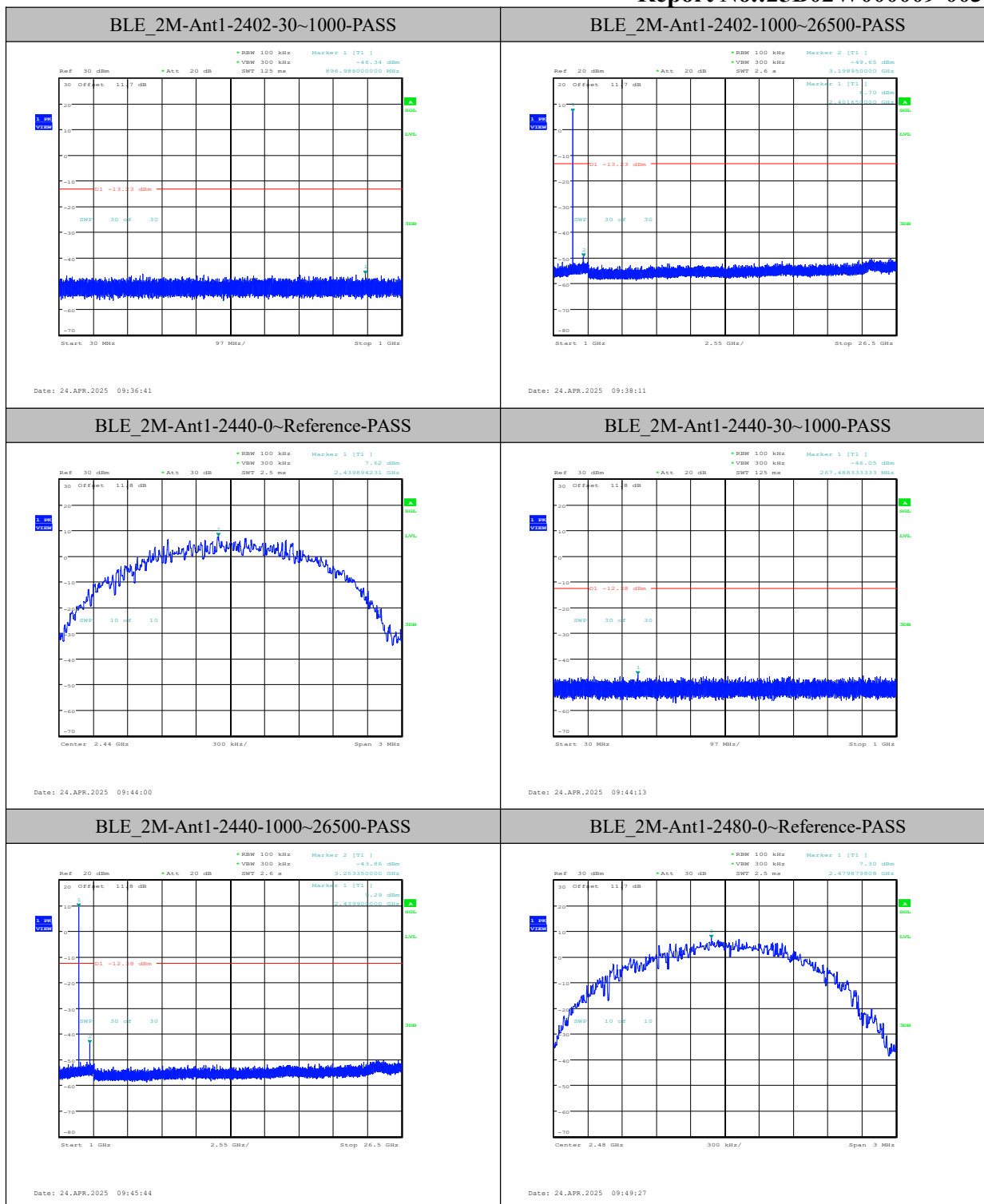
Test graphs as below

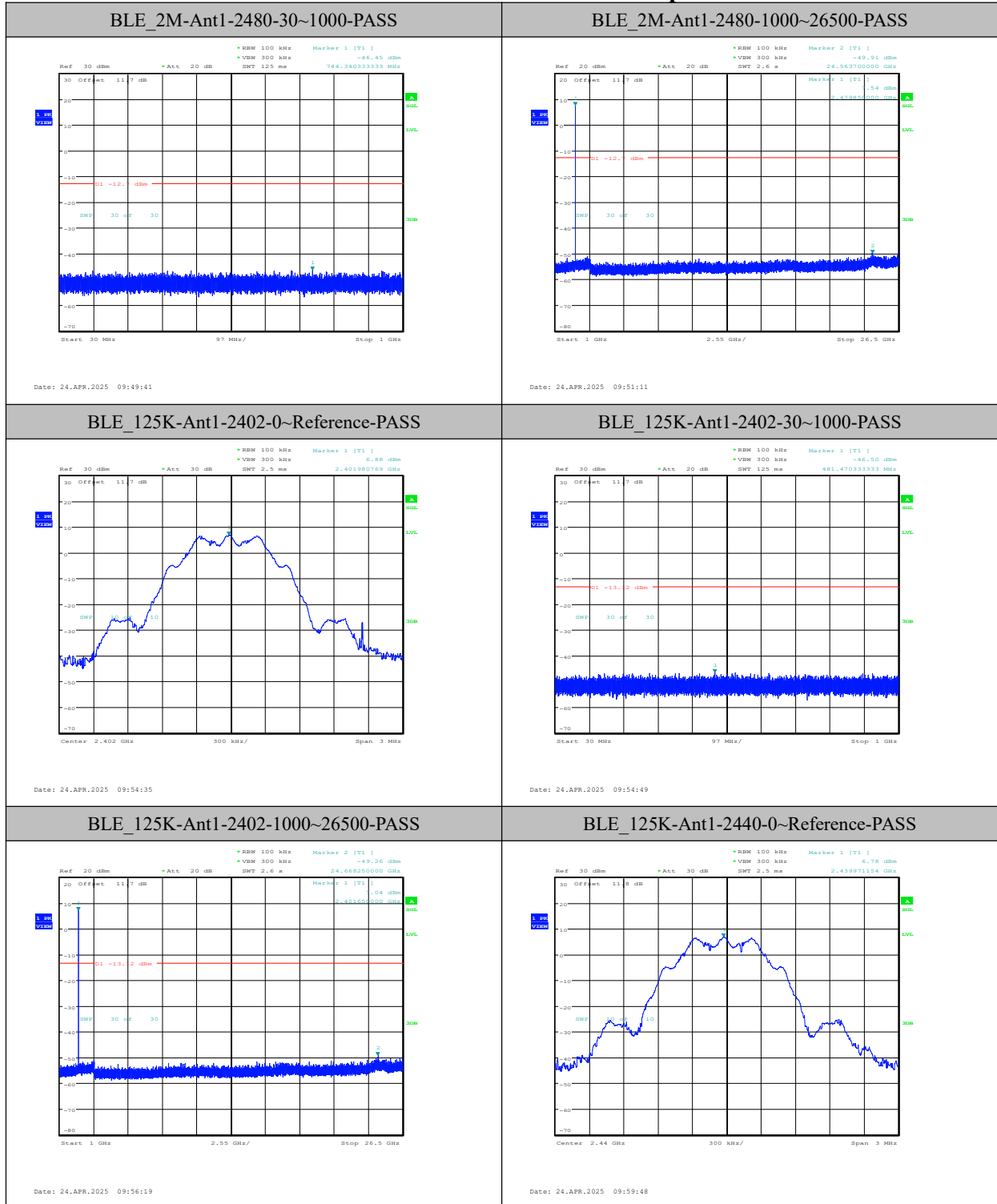


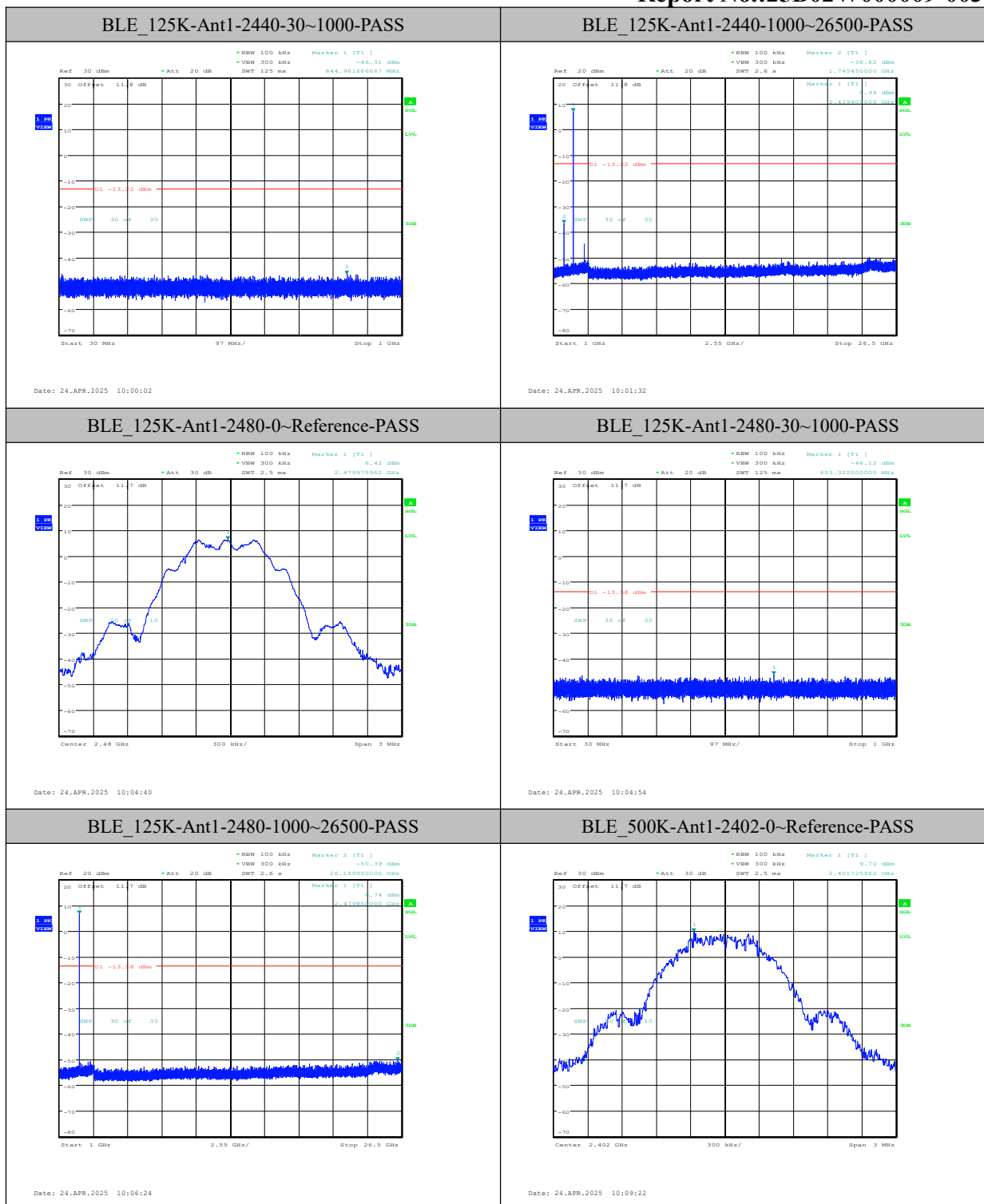
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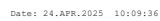






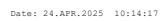


BLE_500K-Ant1-2402-30~1000-PASS

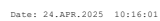


Date: 24.APR.2025 10:11:06

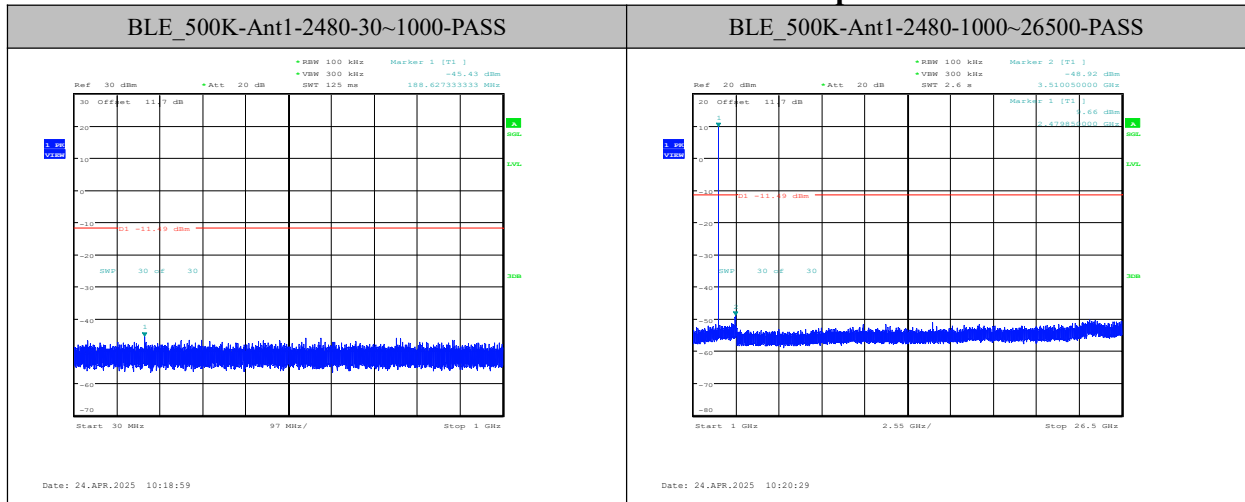
BLE_500K-Ant1-2440-30~1000-PASS



BLE_500K-Ant1-2480-0~Reference-PASS



Page 40 of 72



6.8. Transmitter Spurious Emission-Radiated

Specifications:	FCC Part 15.247(d),15.205(a),15.209(a), RSS-GEN 8.9, 8.10
DUT Serial Number:	N507D53S10198
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60%
Test Results:	Pass

Limit Level Construction:

Limit in restricted band

Frequency of emission (MHz)	Field strength (uV/m)	Field strength (dBuV/m)
0.009~0.49	2400/F (kHz)	129-94
0.49~1.705	24000/F (kHz)	74-63
1.705~30	30	70
30~88	100	40
88~216	150	43.5
216~960	200	46
Above 960	500	54

Measurement Uncertainty:

Measurement Uncertainty	30MHz-150MHz 3.82 dB (k=2) 150MHz-1000MHz 3.97 dB (k=2) 1000MHz-3000MHz 3.09 dB (k=2) 3000MHz-6000MHz 3.29 dB (k=2) 6000MHz-18000MHz 3.91 dB (k=2) 18000MHz-26000MHz 4.60 dB (k=2)
-------------------------	---

Test procedures:

Portable, small, lightweight, or modular devices that may be handheld, worn on the body, or placed on a table during operation shall be positioned on a non-conducting platform, the top of which is 80 cm above the reference ground plane. The preferred area occupied by the EUT arrangement is 1 m by 1.5 m, For emissions testing at or below 1 GHz, the table height shall be 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. but it may be larger or smaller to accommodate various sized EUTs. For testing purposes, ceiling- and wall-mounted devices also shall be positioned on a tabletop (see also ANSI C63.10-2013 section 6.3.4 and 6.3.5). In making any tests involving handheld, body-worn, or ceiling-mounted equipment, it is essential to recognize that the measured levels may be dependent on the orientation (attitude) of the three orthogonal axes of the EUT.

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Thus, exploratory tests as specified in 8.3.1 shall be carried out for various axes orientations to determine the attitude having maximum or near-maximum emission level.

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height varied from 1m to 4m and the EUT azimuth were varied from 0° to 360° in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

Test Settings – Below 1GHz (Quasi-Peak Field Strength Measurements)

1. Set the center frequency and span to encompass frequency range to be measured.
2. Set the RBW = 100 kHz.
3. Set the VBW = 300 kHz.
4. Detector = quasi-peak.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Trace was allowed to stabilize.

Test Settings – Above 1GHz (Peak Field Strength Measurements)

1. Set the center frequency and span to encompass frequency range to be measured.
2. Set the RBW = 1MHz.
3. Set the VBW = 3MHz.
4. Detector = peak
5. Trace mode = max hold
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces.

Test Settings – Above 1GHz (Average Field Strength Measurements)

1. Set the center frequency and span to encompass frequency range to be measured.
2. Set the RBW = 1MHz.
3. Set the VBW = 3MHz.
4. Detector = power average (RMS).
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span} \backslash \text{RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces.

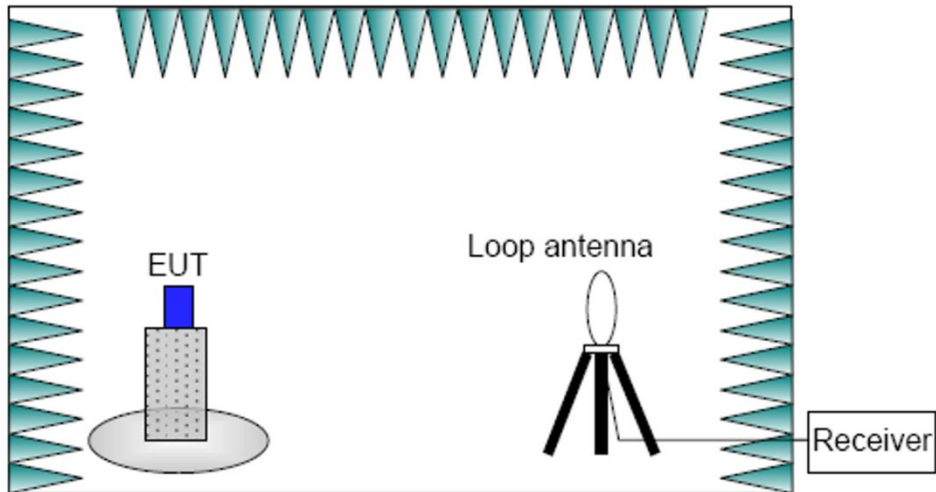
Frequency of emission (MHz)	RBW/VBW	Sweep Time (s)
0.009~30	9KHz/30KHz	Auto
30~1000	100KHz/300KHz	5
1000~4000	1MHz/3MHz	15
4000~18000	1MHz/3MHz	40
18000~26500	1MHz/3MHz	20

Test Setup:

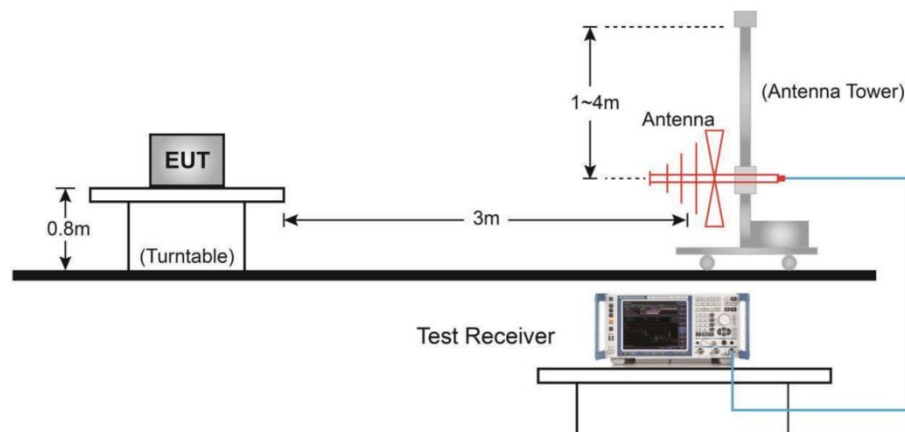
Below 30MHz Test Setup

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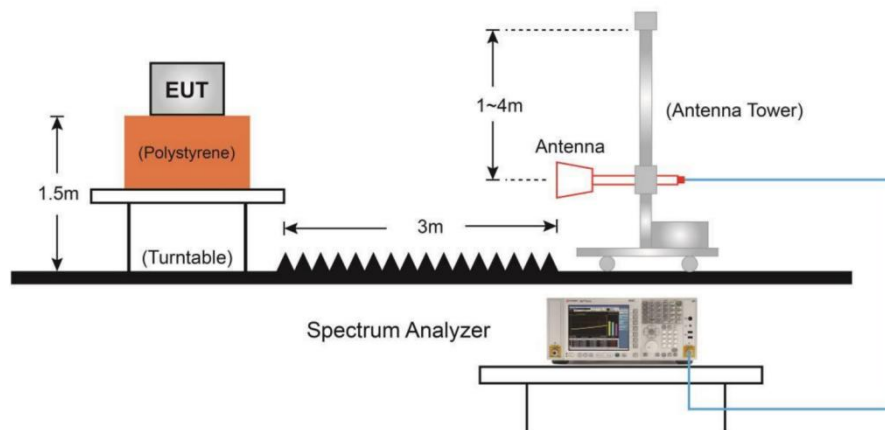
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Below 1GHz Test Setup



Above 1GHz Test Setup



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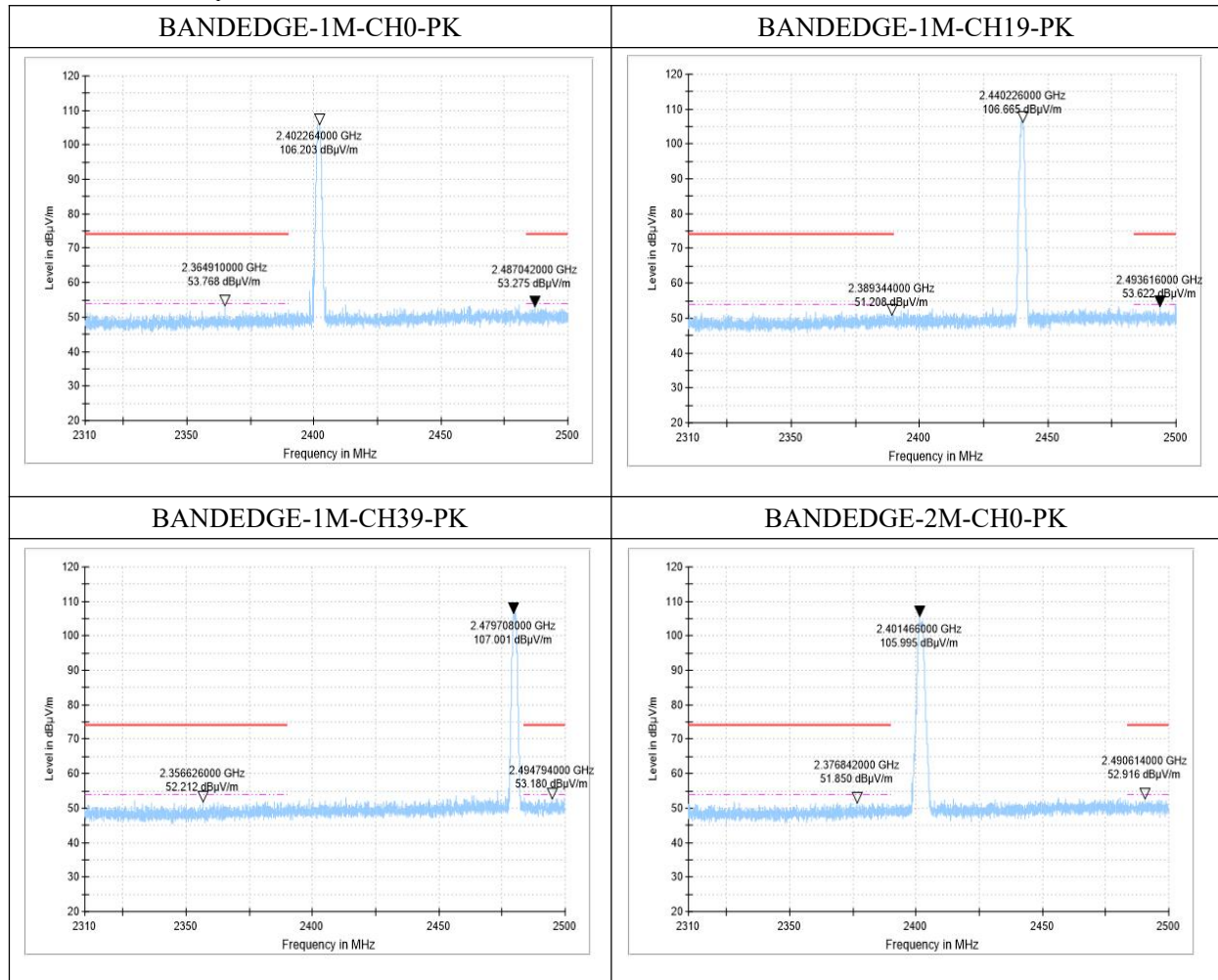
Measurement Results:

A “reference path loss” is established and A_{Rpi} is the attenuation of “reference path loss”, and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

The measurement results are obtained as described below:

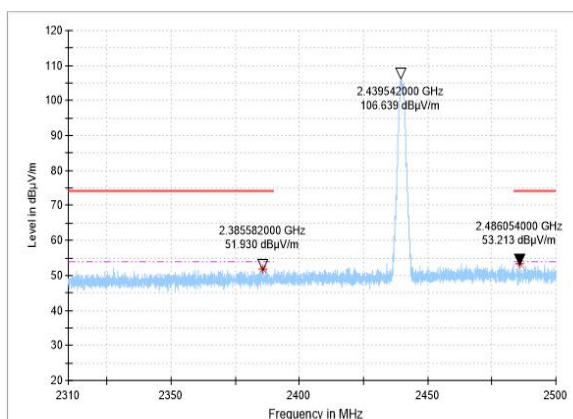
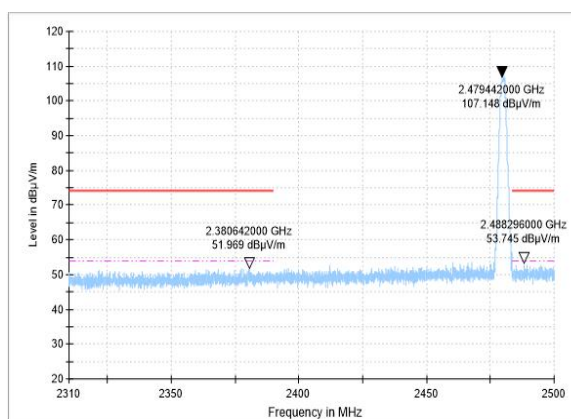
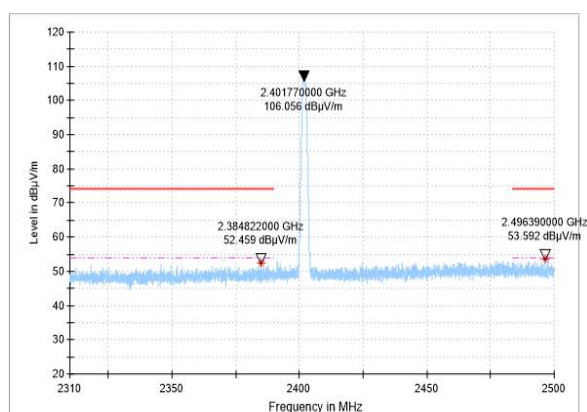
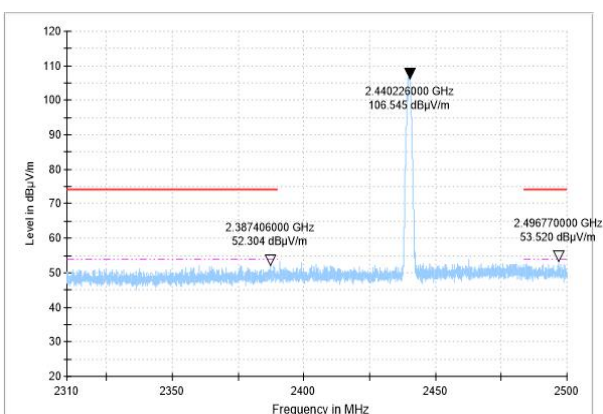
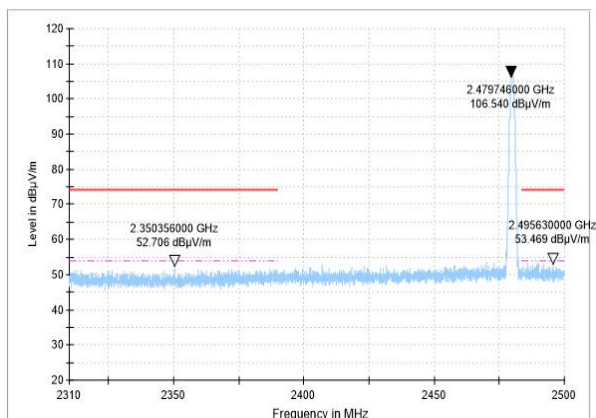
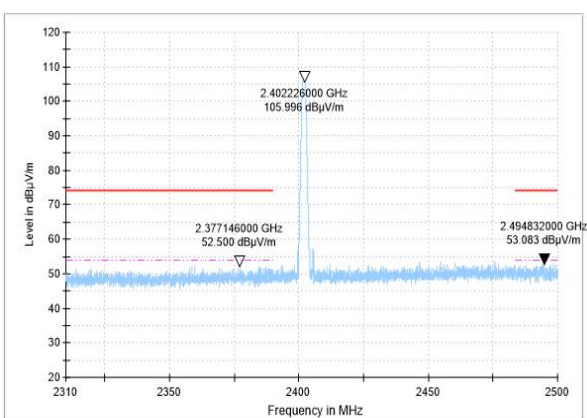
$$A_{Rpi} = \text{Cable loss} + \text{Antenna Factor} - \text{Preamplifier gain}$$

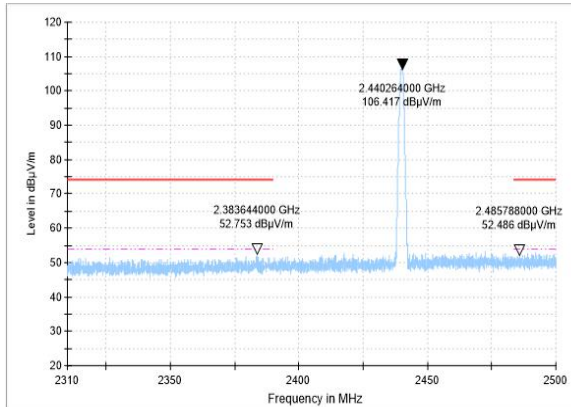
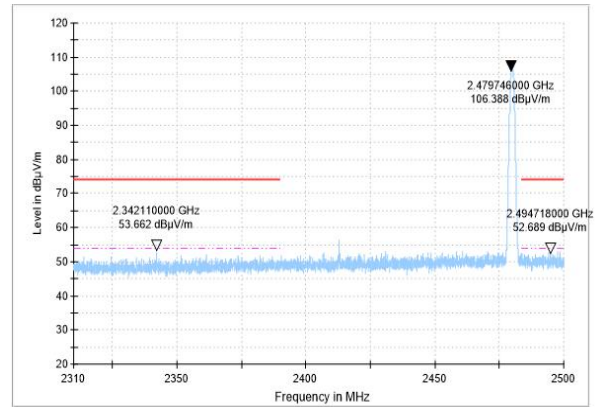
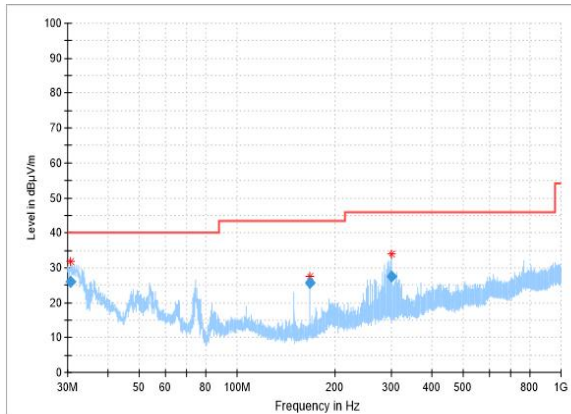
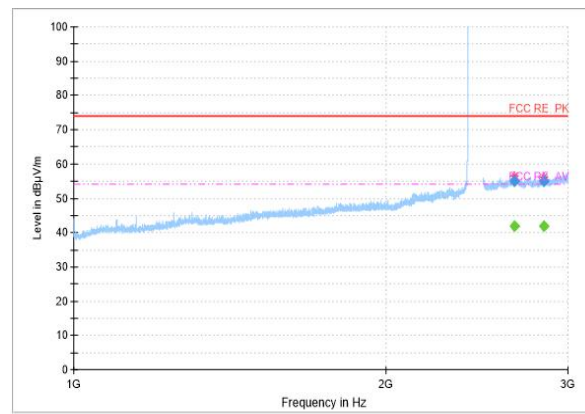
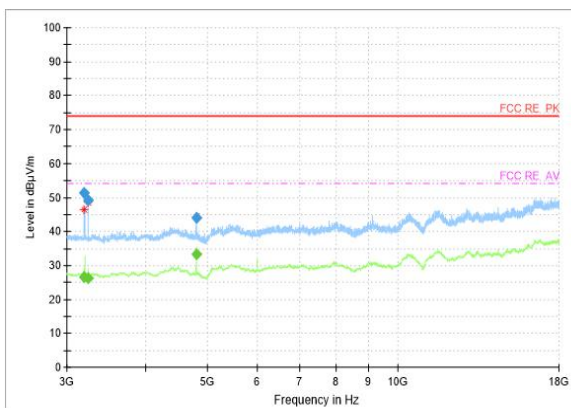
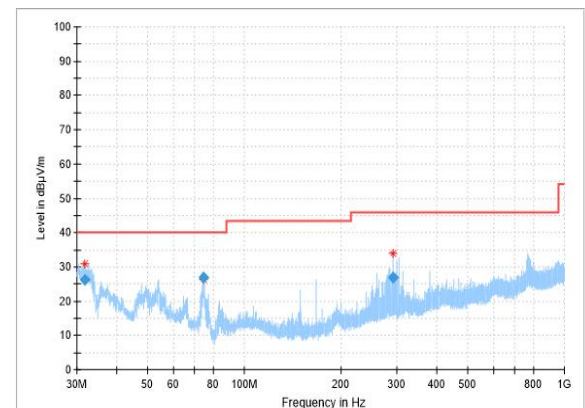
$$\text{Result} = P_{\text{Mea}} + A_{Rpi}$$

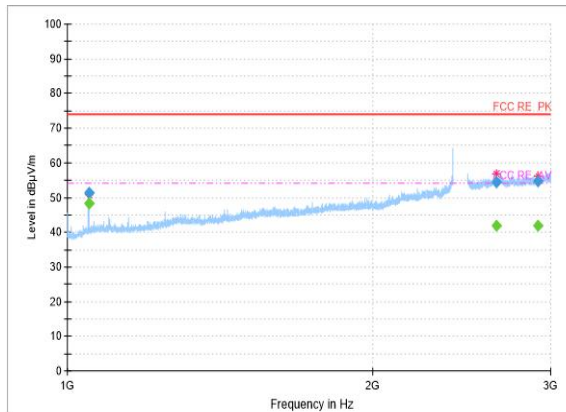
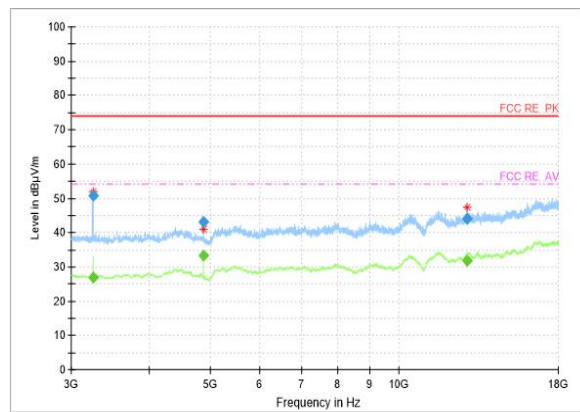
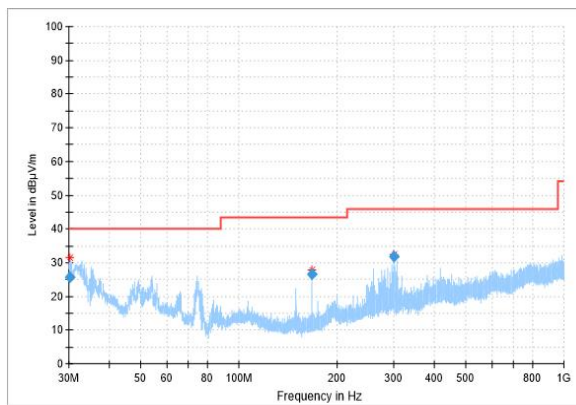
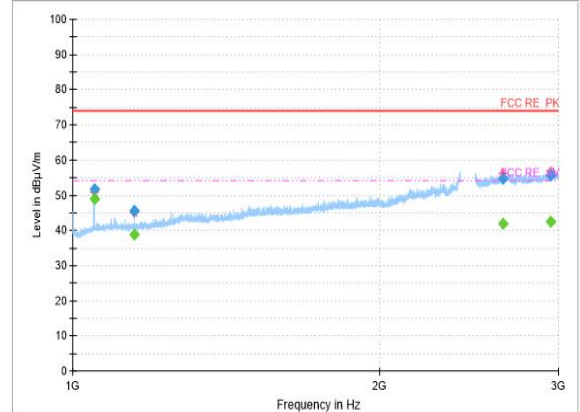
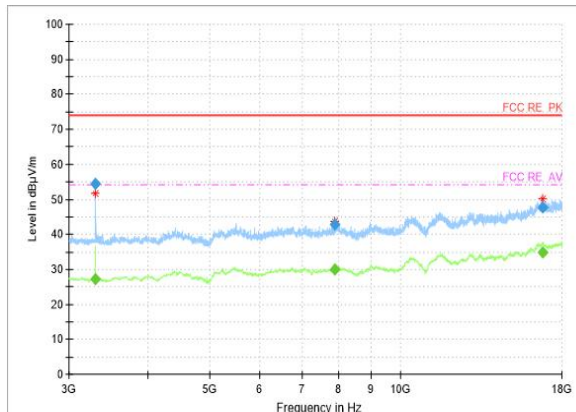
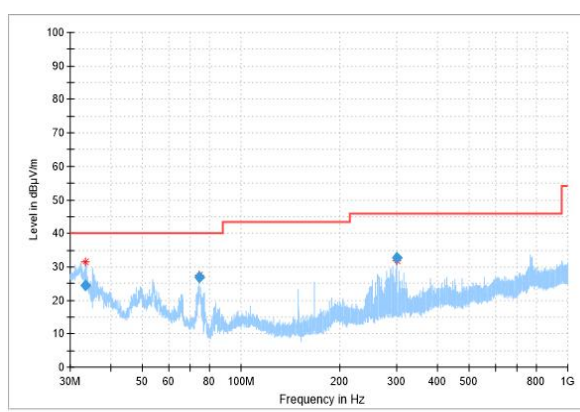


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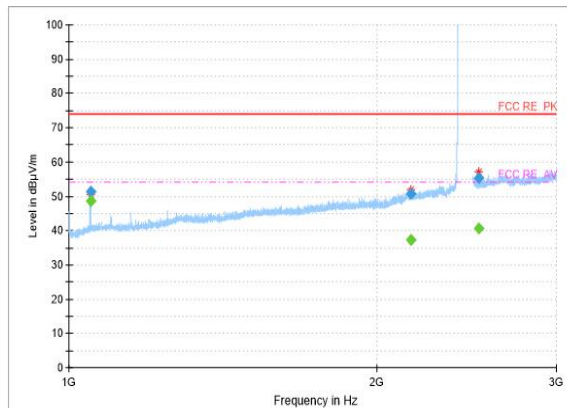
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BANDEDGE-2M-CH19-PK

BANDEDGE-2M-CH39-PK

BANDEDGE-S2-CH0-PK

BANDEDGE-S2-CH19-PK

BANDEDGE-S2-CH39-PK

BANDEDGE-S8-CH0-PK


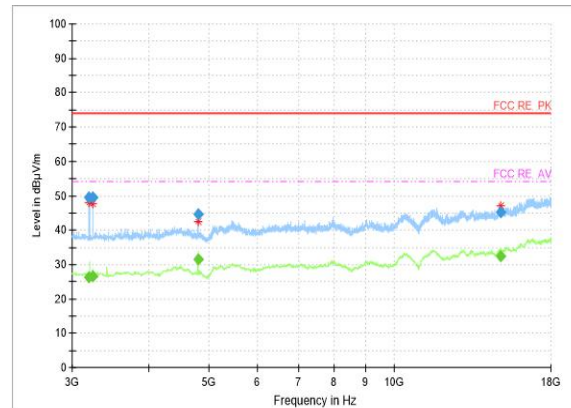
BANDEDGE-S8-CH19-PK

BANDEDGE-S8-CH39-PK

RSE-1M-CH0-30MHz-1GHz

RSE-1M-CH0-1GHz-3GHz

RSE-1M-CH0-3GHz-18GHz

RSE-1M-CH19-30MHz-1GHz


RSE-1M-CH19-1GHz-3GHz

RSE-1M-CH19-3GHz-18GHz

RSE-1M-CH39-30MHz-1GHz

RSE-1M-CH39-1GHz-3GHz

RSE-1M-CH39-3GHz-18GHz

RSE-2M-CH0-30MHz-1GHz


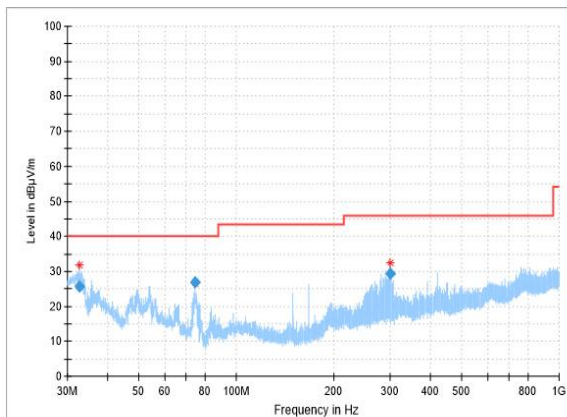
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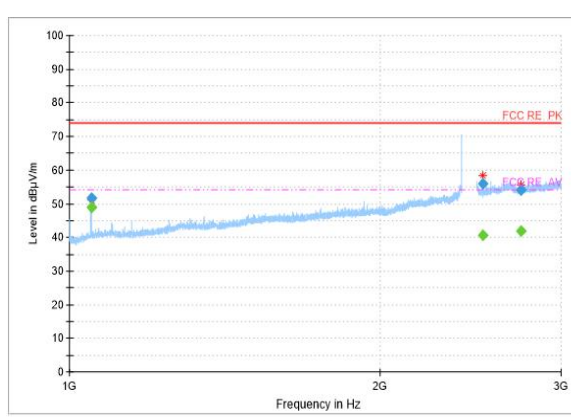
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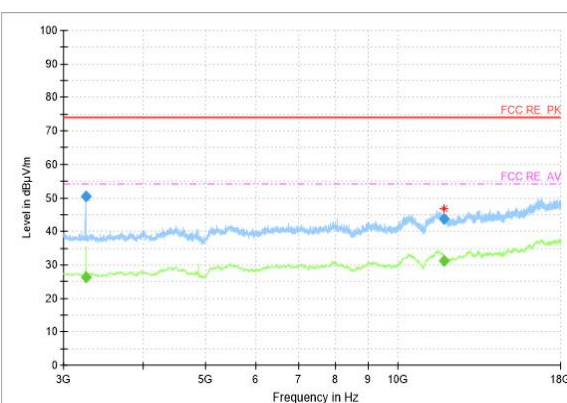
RSE-2M-CH19-30MHz-1GHz



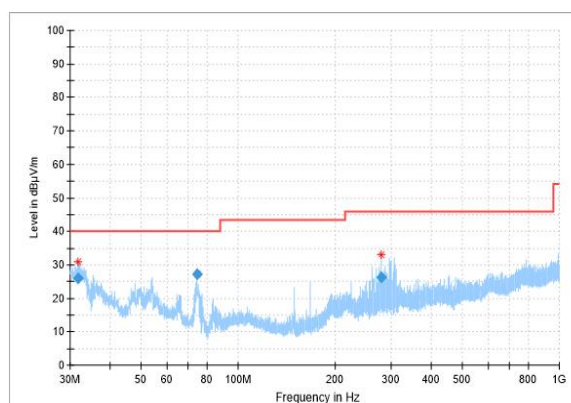
RSE-2M-CH19-1GHz-3GHz



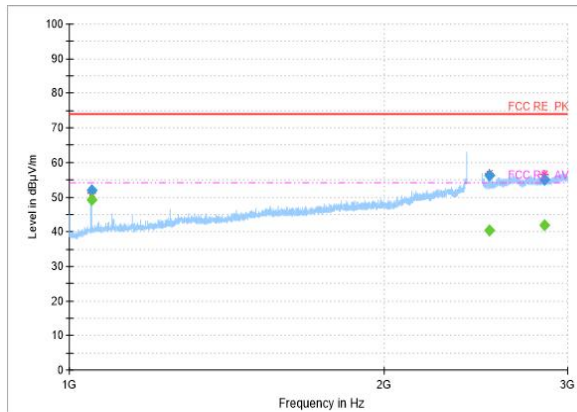
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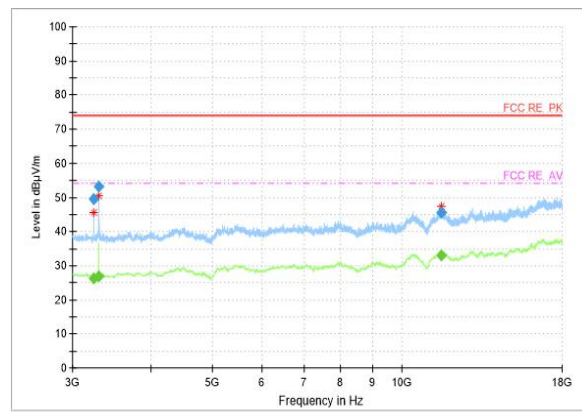
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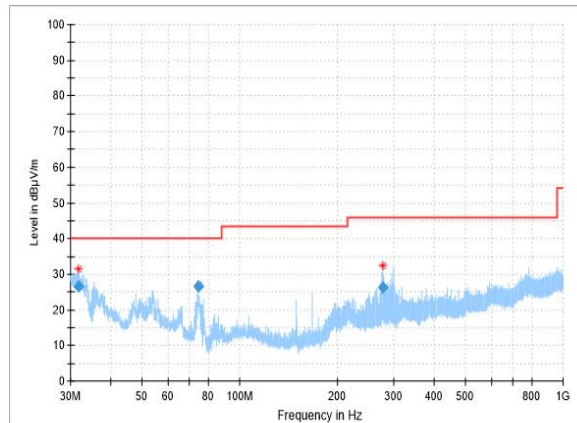
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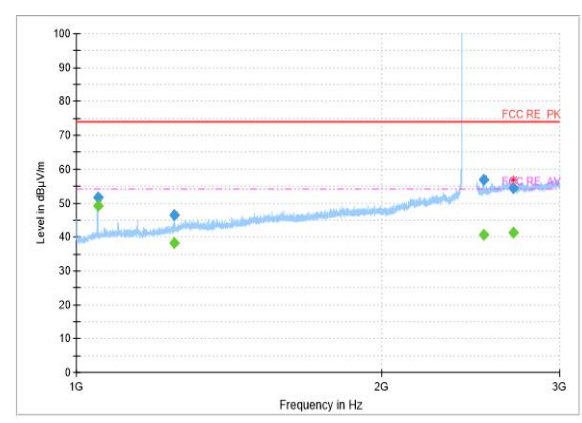
RSE-2M-CH39-3GHz-18GHz



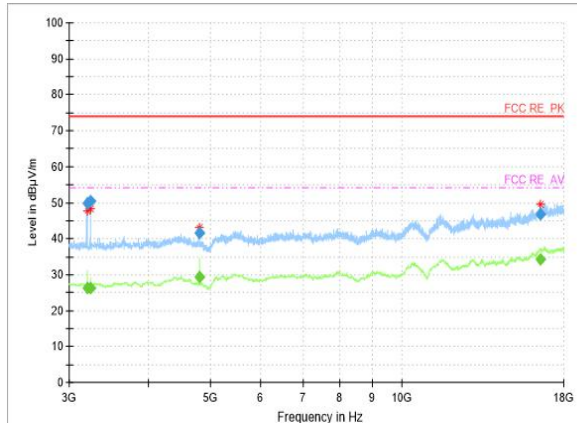
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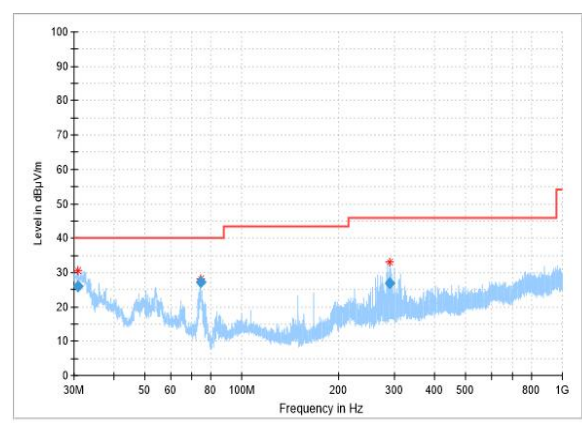
RSE-S2-CH0-1GHz-3GHz

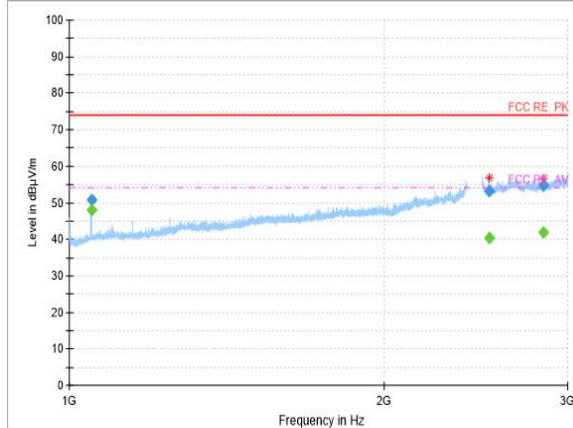
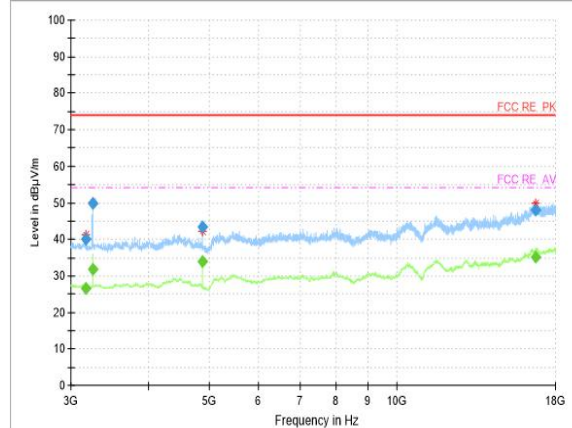
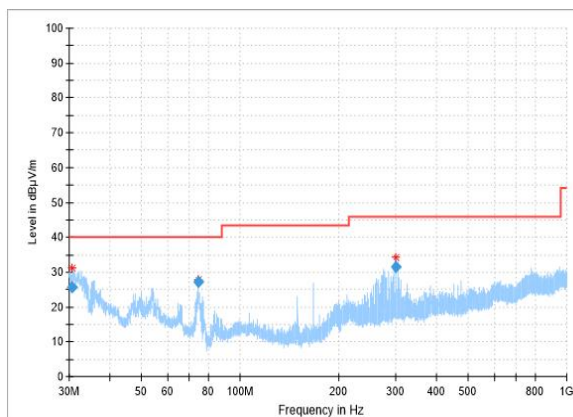
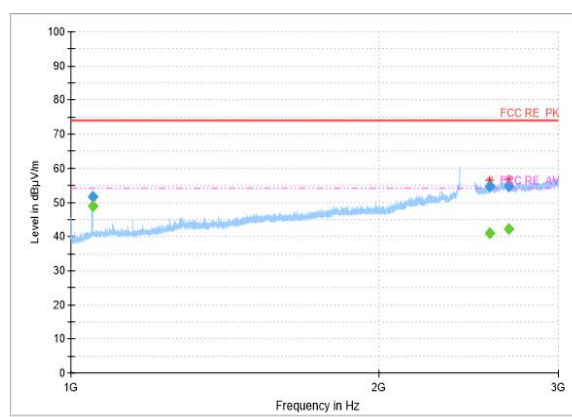
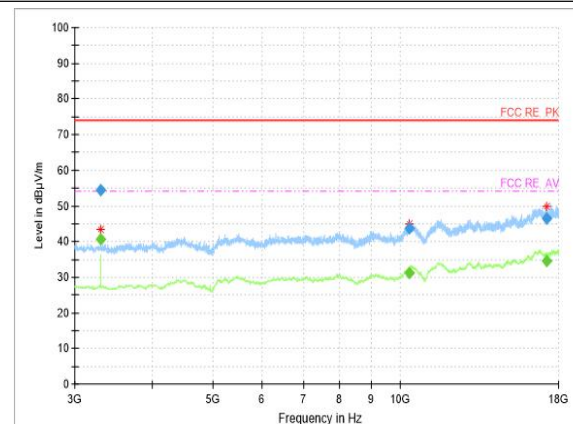
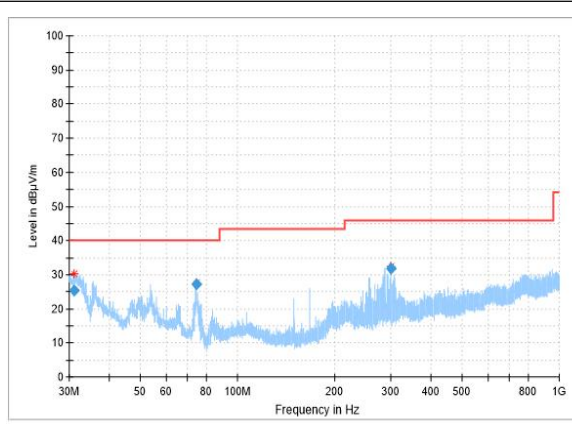


RSE-S2-CH0-3GHz-18GHz

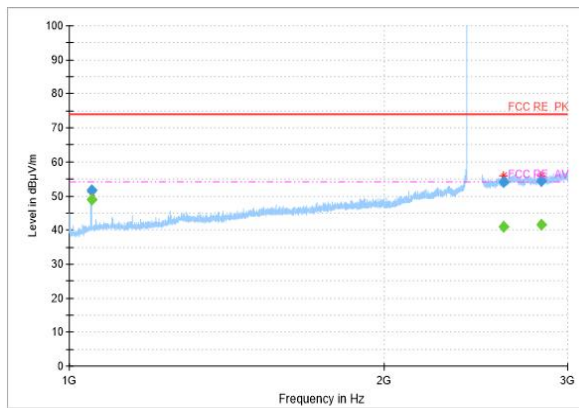


RSE-S2-CH19-30MHz-1GHz

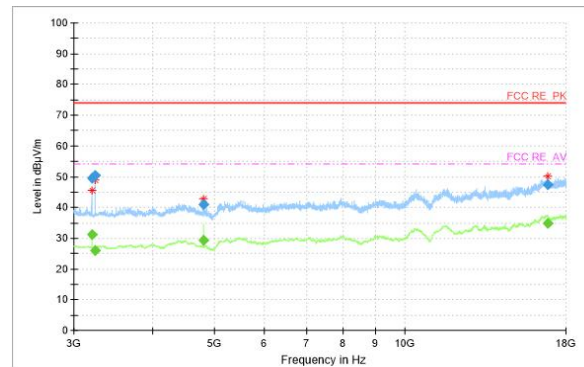


RSE-S2-CH19-1GHz-3GHz

RSE-S2-CH19-3GHz-18GHz

RSE-S2-CH39-30MHz-1GHz

RSE-S2-CH39-1GHz-3GHz

RSE-S2-CH39-3GHz-18GHz

RSE-S8-CH0-30MHz-1GHz


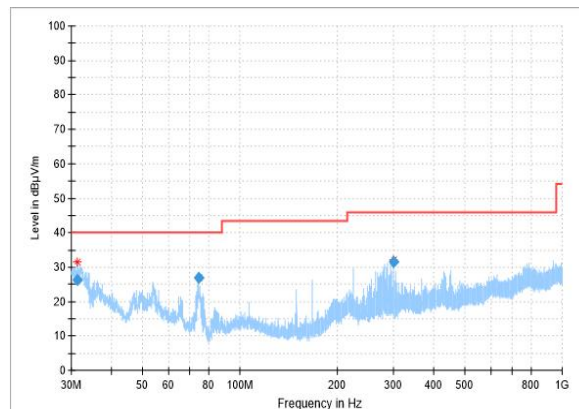
RSE-S8-CH0-1GHz-3GHz



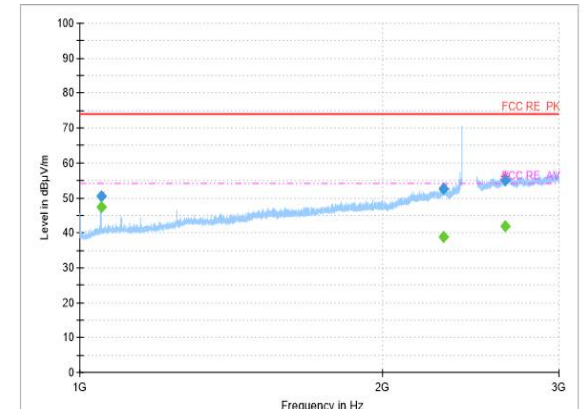
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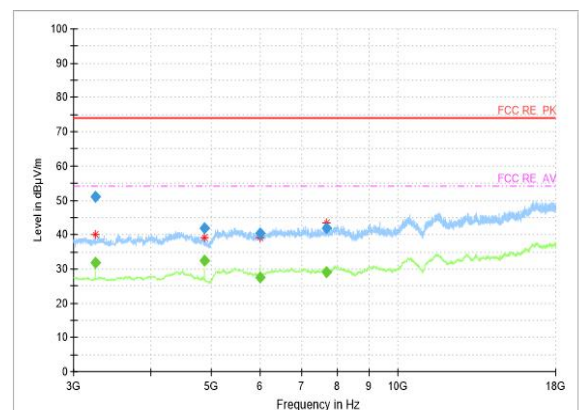
RSE-S8-CH19-30MHz-1GHz



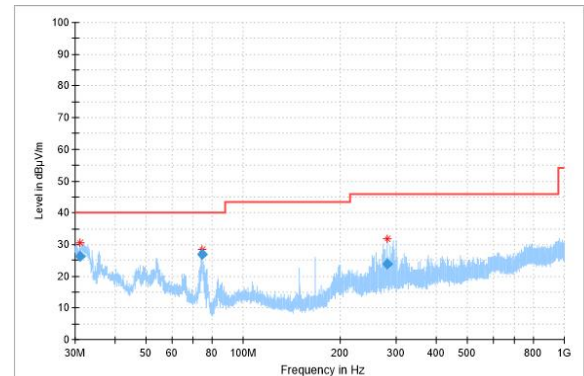
RSE-S8-CH19-1GHz-3GHz

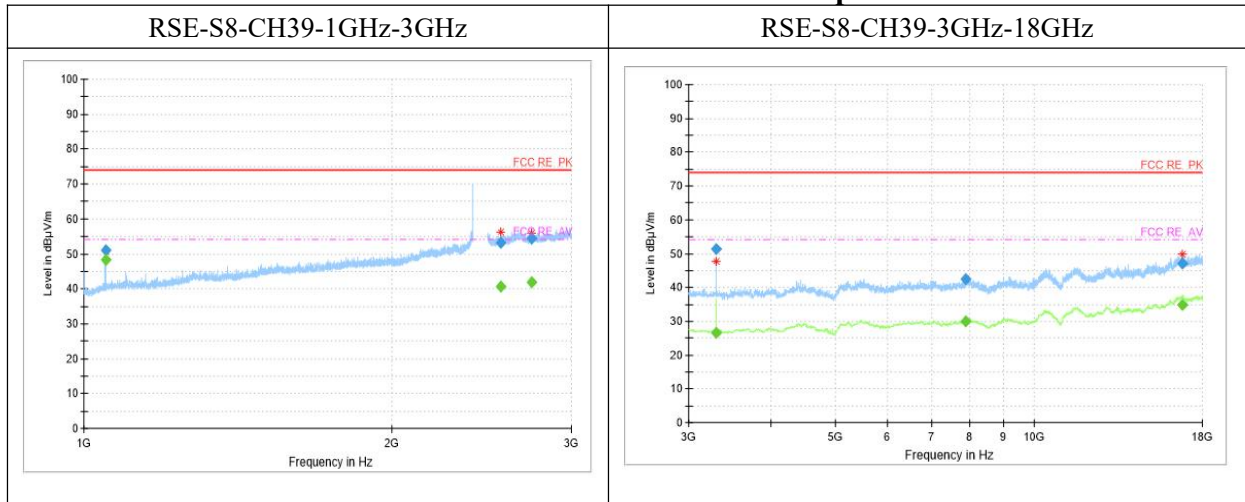


RSE-S8-CH19-3GHz-18GHz



RSE-S8-CH39-30MHz-1GHz





Note:

1. The out-of- limit signal in the picture is the main frequency signal.
2. Only data in worst mode is provided.
3. Sweep the whole frequency band through the range from 30MHz to the 10th harmonic of the carrier, the Emissions in the frequency band 18GHz-26.5GHz is more than 20dB below the limit are not report.
4. The test data below 30MHz is more than 20dB lower than the limit value, so it is not provided in the report.
5. Horizontal and vertical polarity is all have been tested, the result of them is synthesized in the above data diagram.

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RSE-1M-CH0-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
30.7	25.88	-16	41.88	14.12	40.00	V
168.0	25.81	-16	41.81	17.69	43.50	V
298.9	27.4	-10	37.4	18.60	46.00	H

RSE-1M-CH0-1GHz-3GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
2660.8	54.92	18	36.92	19.08	74.00	V
2842.3	55.06	18	37.06	18.94	74.00	H

RSE-1M-CH0-1GHz-3GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
2660.8	41.95	18	23.95	12.05	54.00	V
2842.3	41.93	18	23.93	12.07	54.00	H

RSE-1M-CH0-3GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
3198.2	51.32	-7	58.32	22.68	74.00	H
3238.6	49.36	-7	56.36	24.64	74.00	V
4804.2	43.91	-4	47.91	30.09	74.00	H

RSE-1M-CH0-3GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
3198.2	26.46	-7	33.46	27.54	54.00	H
3238.6	26.44	-7	33.44	27.56	54.00	V
4804.2	33.26	-4	37.26	20.74	54.00	H

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RSE-1M-CH19-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
31.7	26.33	-15	41.33	13.67	40.00	V
74.6	26.9	-17	43.9	13.10	40.00	V
291.5	26.96	-10	36.96	19.04	46.00	H

RSE-1M-CH19-1GHz-3GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
1049.9	51.31	3	48.31	22.69	74.00	H
2651.0	54.41	18	36.41	19.59	74.00	H
2914.0	54.64	18	36.64	19.36	74.00	V

RSE-1M-CH19-1GHz-3GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
1049.9	48.29	3	45.29	5.71	54.00	H
2651.0	41.91	18	23.91	12.09	54.00	H
2914.0	41.98	18	23.98	12.02	54.00	V

RSE-1M-CH19-3GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
3252.2	50.7	-7	57.7	23.30	74.00	H
4879.8	43	-3	46	31.00	74.00	H
12858.2	44.11	4	40.11	29.89	74.00	H

RSE-1M-CH19-3GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
3252.2	26.86	-7	33.86	27.14	54.00	H
4879.8	33.46	-3	36.46	20.55	54.00	H

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12858.2	31.71	4	27.71	22.29	54.00	H
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RSE-1M-CH39-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
30.2	25.81	-16	41.81	14.19	40.00	V
168.0	26.56	-16	42.56	16.94	43.50	V
300.0	31.7	-10	41.7	14.30	46.00	H

RSE-1M-CH39-1GHz-3GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
1049.9	51.64	3	48.64	22.36	74.00	H
1149.8	45.6	3	42.6	28.40	74.00	V
2648.3	54.69	17	37.69	19.31	74.00	H
2948.2	55.68	18	37.68	18.32	74.00	H

RSE-1M-CH39-1GHz-3GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
1049.9	48.95	3	45.95	5.05	54.00	H
1149.8	38.83	3	35.83	15.17	54.00	V
2648.3	41.86	17	24.86	12.14	54.00	H
2948.2	42.54	18	24.54	11.46	54.00	H

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RSE-1M-CH39-3GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
3301.9	54.53	-7	61.53	19.47	74.00	H
7886.8	42.67	-2	44.67	31.33	74.00	V
16777.5	47.8	11	36.8	26.20	74.00	V

RSE-1M-CH39-3GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
3301.9	27.08	-7	34.08	26.92	54.00	H
7886.8	29.83	-2	31.83	24.18	54.00	V
16777.5	34.9	11	23.9	19.10	54.00	V

RSE-2M-CH0-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
33.4	24.47	-15	39.47	15.53	40.00	V
74.6	26.88	-17	43.88	13.12	40.00	V
300.0	32.59	-10	42.59	13.41	46.00	H

RSE-2M-CH0-1GHz-3GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
1050.1	51.44	3	48.44	22.56	74.00	H
2163.0	50.9	13	37.9	23.10	74.00	H
2518.2	55.29	16	39.29	18.71	74.00	V

RSE-2M-CH0-1GHz-3GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
1050.1	48.74	3	45.74	5.26	54.00	H
2163.0	37.33	13	24.33	16.67	54.00	H
2518.2	40.56	16	24.56	13.44	54.00	V

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RSE-2M-CH0-3GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
3199.6	49.66	-7	56.66	24.34	74.00	H
3238.6	49.44	-7	56.44	24.56	74.00	V
4802.9	44.71	-4	48.71	29.29	74.00	H
14892.6	45.16	6	39.16	28.84	74.00	V

RSE-2M-CH0-3GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
3199.6	26.27	-7	33.27	27.73	54.00	H
3238.6	26.48	-7	33.48	27.52	54.00	V
4802.9	31.41	-4	35.41	22.59	54.00	H
14892.6	32.56	6	26.56	21.44	54.00	V

RSE-2M-CH19-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
32.7	25.58	-15	40.58	14.42	40.00	V
74.5	26.96	-17	43.96	13.04	40.00	V
300.0	29.37	-10	39.37	16.63	46.00	H

RSE-2M-CH19-1GHz-3GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
1050.1	51.75	3	48.75	22.25	74.00	H
2520.3	55.97	16	39.97	18.03	74.00	V
2741.1	54.05	17	37.05	19.95	74.00	V

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RSE-2M-CH19-1GHz-3GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
1050.1	48.97	3	45.97	5.03	54.00	H
2520.3	40.54	16	24.54	13.46	54.00	V
2741.1	41.83	17	24.83	12.17	54.00	V

RSE-2M-CH19-3GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
3248.5	50.32	-7	57.32	23.68	74.00	H
11817.1	43.63	3	40.63	30.37	74.00	H

RSE-2M-CH19-3GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
3248.5	26.42	-7	33.42	27.58	54.00	H
11817.1	31.06	3	28.06	22.94	54.00	H

RSE-2M-CH39-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
31.8	25.9	-15	40.9	14.10	40.00	V
74.5	27.18	-17	44.18	12.82	40.00	V
279.5	26.24	-11	37.24	19.76	46.00	H

RSE-2M-CH39-1GHz-3GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
1049.9	51.86	3	48.86	22.14	74.00	H
2523.9	56.25	16	40.25	17.75	74.00	H
2851.5	55.17	18	37.17	18.83	74.00	H

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RSE-2M-CH39-1GHz-3GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
1049.9	49.35	3	46.35	4.65	54.00	H
2523.9	40.5	16	24.5	13.50	54.00	H
2851.5	41.91	18	23.91	12.09	54.00	H

RSE-2M-CH39-3GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
3238.6	49.65	-7	56.65	24.35	74.00	V
3302.8	53.07	-7	60.07	20.93	74.00	H
11547.6	45.5	3	42.5	28.50	74.00	V

RSE-2M-CH39-3GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
3238.6	26.44	-7	33.44	27.56	54.00	V
3302.8	26.91	-7	33.91	27.09	54.00	H
11547.6	32.97	3	29.97	21.03	54.00	V

RSE-S2-CH0-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
31.7	26.69	-15	41.69	13.31	40.00	V
74.6	26.53	-17	43.53	13.47	40.00	V
277.1	26.36	-11	37.36	19.64	46.00	H

RSE-S2-CH0-1GHz-3GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
1049.9	51.71	3	48.71	22.29	74.00	H
1250.1	46.6	5	41.6	27.40	74.00	V

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2524.0	56.93	16	40.93	17.07	74.00	V
2699.2	54.41	17	37.41	19.59	74.00	V

RSE-S2-CH0-1GHz-3GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
1049.9	49.12	3	46.12	4.88	54.00	H
1250.1	38.37	5	33.37	15.63	54.00	V
2524.0	40.54	16	24.54	13.46	54.00	V
2699.2	41.27	17	24.27	12.73	54.00	V

RSE-S2-CH0-3GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
3201.1	49.82	-7	56.82	24.18	74.00	H
3238.1	50.48	-7	57.48	23.52	74.00	H
4802.9	41.47	-4	45.47	32.53	74.00	H
16534.2	46.86	10	36.86	27.14	74.00	V

RSE-S2-CH0-3GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
3201.1	26.36	-7	33.36	27.64	54.00	H
3238.1	26.33	-7	33.33	27.67	54.00	H
4802.9	29.41	-4	33.41	24.59	54.00	H
16534.2	34.24	10	24.24	19.76	54.00	V

RSE-S2-CH19-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
30.8	25.92	-16	41.92	14.08	40.00	V
74.5	27.13	-17	44.13	12.87	40.00	V
289.0	26.86	-10	36.86	19.14	46.00	H

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RSE-S2-CH19-1GHz-3GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
1049.8	50.89	3	47.89	23.11	74.00	H
2523.5	53.12	16	37.12	20.88	74.00	H
2842.5	54.64	18	36.64	19.36	74.00	V

RSE-S2-CH19-1GHz-3GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
1049.8	47.98	3	44.98	6.02	54.00	H
2523.5	40.45	16	24.45	13.55	54.00	H
2842.5	41.92	18	23.92	12.08	54.00	V

RSE-S2-CH19-3GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
3173.5	40.12	-7	47.12	33.88	74.00	H
3253.1	49.9	-7	56.9	24.10	74.00	V
4879.6	43.55	-3	46.55	30.45	74.00	H
16749.4	47.96	11	36.96	26.04	74.00	V

RSE-S2-CH19-3GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
3173.5	26.57	-7	33.57	27.43	54.00	H
3253.1	31.91	-7	38.91	22.09	54.00	V
4879.6	33.83	-3	36.83	20.17	54.00	H
16749.4	35.04	11	24.04	18.96	54.00	V

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RSE-S2-CH39-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
30.7	25.78	-16	41.78	14.22	40.00	V
74.6	27.07	-17	44.07	12.93	40.00	V
300.0	31.6	-10	41.6	14.40	46.00	H

RSE-S2-CH39-1GHz-3GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
1049.9	51.73	3	48.73	22.27	74.00	H
2568.3	54.6	17	37.6	19.40	74.00	V
2679.3	54.63	17	37.63	19.37	74.00	H

RSE-S2-CH39-1GHz-3GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
1049.9	48.79	3	45.79	5.21	54.00	H
2568.3	41.12	17	24.12	12.88	54.00	V
2679.3	42.08	17	25.08	11.92	54.00	H

RSE-S2-CH39-3GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
3306.6	54.29	-7	61.29	19.72	74.00	H
10370.6	43.75	2	41.75	30.25	74.00	H
17220.0	46.58	10	36.58	27.42	74.00	V

RSE-S2-CH39-3GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
3306.6	40.58	-7	47.58	13.42	54.00	H
10370.6	31.26	2	29.26	22.74	54.00	H

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17220.0	34.47	10	24.47	19.53	54.00	V
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RSE-S8-CH0-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
31.0	25.29	-16	41.29	14.71	40.00	V
74.6	27.18	-17	44.18	12.82	40.00	V
300.0	31.66	-10	41.66	14.34	46.00	H

RSE-S8-CH0-1GHz-3GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
1049.9	51.62	3	48.62	22.38	74.00	H
2606.7	53.98	17	36.98	20.02	74.00	V
2832.2	54.38	17	37.38	19.62	74.00	H

RSE-S8-CH0-1GHz-3GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
1049.9	48.9	3	45.9	5.10	54.00	H
2606.7	40.93	17	23.93	13.07	54.00	V
2832.2	41.61	17	24.61	12.39	54.00	H

RSE-S8-CH0-3GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
3202.5	49.45	-7	56.45	24.55	74.00	H
3238.1	50.39	-7	57.39	23.61	74.00	V
4802.9	41.06	-4	45.06	32.94	74.00	H
16838.9	47.33	11	36.33	26.67	74.00	V

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RSE-S8-CH0-3GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
3202.5	31.32	-7	38.32	22.68	54.00	H
3238.1	26.1	-7	33.1	27.90	54.00	V
4802.9	29.22	-4	33.22	24.78	54.00	H
16838.9	35.01	11	24.01	18.99	54.00	V

RSE-S8-CH19-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
31.3	26.29	-16	42.29	13.71	40.00	V
74.6	26.84	-17	43.84	13.16	40.00	V
300.0	31.49	-10	41.49	14.51	46.00	H

RSE-S8-CH19-1GHz-3GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
1049.8	50.41	3	47.41	23.59	74.00	H
2298.9	52.47	14	38.47	21.53	74.00	H
2650.5	54.9	18	36.9	19.10	74.00	V

RSE-S8-CH19-1GHz-3GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
1049.8	47.26	3	44.26	6.74	54.00	H
2298.9	38.84	14	24.84	15.16	54.00	H
2650.5	41.95	18	23.95	12.05	54.00	V

RSE-S8-CH19-3GHz-18GHz

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
3253.6	50.92	-7	57.92	23.08	74.00	V

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4879.8	41.81	-3	44.81	32.19	74.00	V
6001.0	40.5	-4	44.5	33.50	74.00	H
7682.8	41.77	-1	42.77	32.23	74.00	V

RSE-S8-CH19-3GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
3253.6	31.81	-7	38.81	22.19	54.00	V
4879.8	32.32	-3	35.32	21.68	54.00	V
6001.0	27.55	-4	31.55	26.45	54.00	H
7682.8	29.1	-1	30.1	24.90	54.00	V

RSE-S8-CH39-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
31.1	26.21	-16	42.21	13.79	40.00	V
74.6	27.01	-17	44.01	12.99	40.00	V
281.7	23.98	-11	34.98	22.02	46.00	H

RSE-S8-CH39-1GHz-3GHz

MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
51.18	3	48.18	22.82	74.00	H
53.25	16	37.25	20.75	74.00	H
54.46	17	37.46	19.54	74.00	V

RSE-S8-CH39-1GHz-3GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
1049.8	48.2	3	45.2	5.80	54.00	H
2560.0	40.67	16	24.67	13.33	54.00	H
2743.1	41.84	17	24.84	12.16	54.00	V

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Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
3303.2	51.44	-7	58.44	22.56	74.00	H
7883.4	42.48	-2	44.48	31.52	74.00	H
16802.8	47.13	11	36.13	26.87	74.00	H

RSE-S8-CH39-3GHz-18GHz

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
3303.2	26.69	-7	33.69	27.31	54.00	H
7883.4	29.83	-2	31.83	24.17	54.00	H
16802.8	34.98	11	23.98	19.02	54.00	H

6.9. AC Powerline Conducted Emission

Specifications:	FCC Part 15.207, RSS-GEN 8.8
DUT Serial Number:	N507D53S10198
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60%
Test Results:	Pass

Method of Measurement: ANSI C63.10-2013-clause 6.2

1.The one EUT cable configuration and arrangement and mode of operation that produced the emission with the highest amplitude relative to the limit is selected for the final measurement, while applying the appropriate modulating signal to the EUT.

2.If the EUT is relocated from an exploratory test site to a final test site, the highest emissions shall be remaximized at the final test location before final ac power-line conducted emission measurements are performed.

3.The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment in the system) is then performed for the full frequency range for which the EUT is being tested for compliance without further variation of the EUT arrangement, cable positions, or EUT mode of operation.

4.If the EUT is comprised of equipment units that have their own separate ac power connections, e.g., floor-standing equipment with independent power cords for each shelf that are able to connect directly to the ac power network, each current-carrying conductor of one unit is measured while the other units are connected to a second (or more) LISN(s). All units shall be separately measured. If a power strip is provided by the manufacturer, to supply all of the units making up the EUT, only the conductors in the power cord of the power strip shall be measured.

If the EUT uses a detachable antenna, these measurements shall be made with a suitable dummy load connected to the antenna output terminals; otherwise, the tests shall be made with the antenna connected and, if adjustable, fully extended. When measuring the ac conducted emissions from a device that operates between 150 kHz and 30 MHz a non-detachable antenna may be replaced with a dummy load for the measurements within the fundamental emission band of the transmitter, but only for those measurements.³⁶ Record the six highest EUT emissions relative to the limit of each of the current-carrying conductors of the power cords of the equipment that comprises the EUT over the frequency range specified by the procuring or regulatory agency. Diagram or photograph the test setup that was used. See Clause 8 for full reporting requirements.

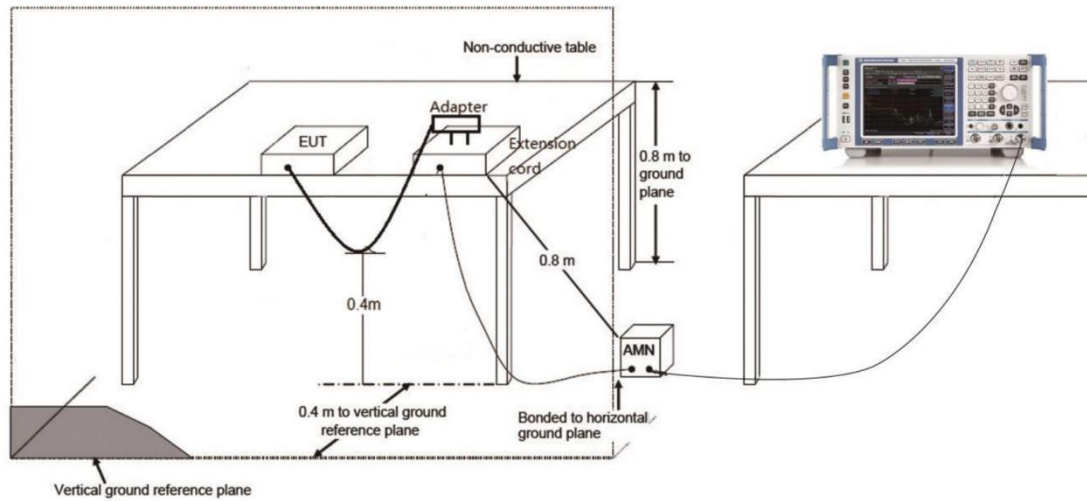
Measurement Uncertainty:

Measurement Uncertainty	1.97dB (k=2)
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Test Setup



Test Condition

Voltage (V)	Frequency (Hz)
120	60

Measurement Results and limit:

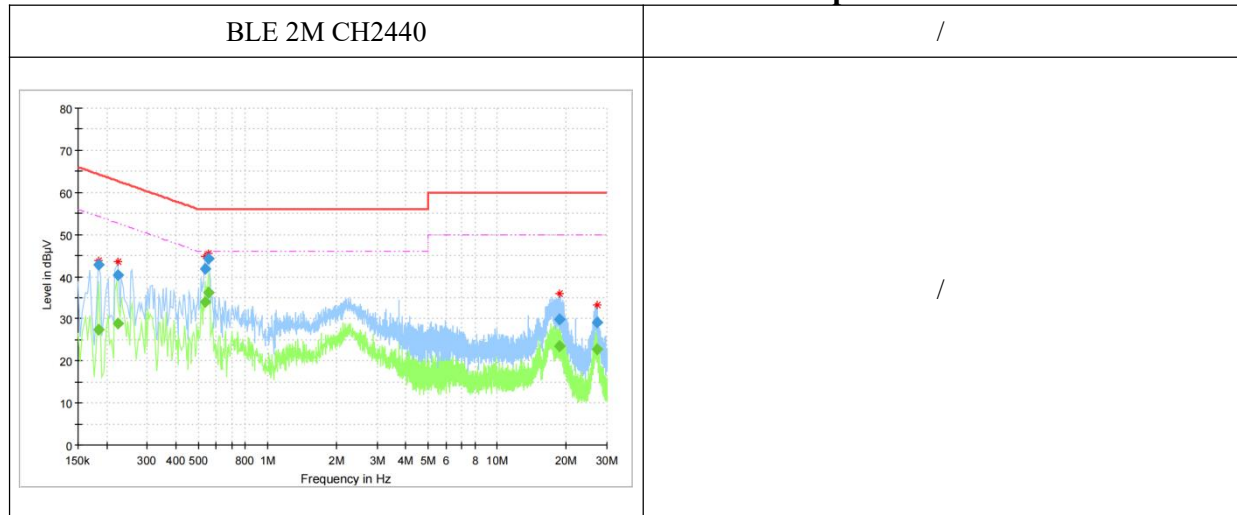
(Quasi-peak-average Limit)

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

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

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Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.183581	---	27.41	54.32	26.91	15000.0	9.000	L1	ON	10.0
0.183581	42.69	---	64.32	21.63	15000.0	9.000	L1	ON	10.0
0.224625	---	28.80	52.65	23.85	15000.0	9.000	N	ON	10.2
0.224625	40.26	---	62.65	22.39	15000.0	9.000	N	ON	10.2
0.534319	---	34.00	46.00	12.00	15000.0	9.000	N	ON	10.1
0.534319	41.85	---	56.00	14.15	15000.0	9.000	N	ON	10.1
0.552975	---	36.16	46.00	9.84	15000.0	9.000	N	ON	10.1
0.552975	44.20	---	56.00	11.80	15000.0	9.000	N	ON	10.1
18.563719	---	23.59	50.00	26.41	15000.0	9.000	N	ON	9.8
18.563719	29.93	---	60.00	30.07	15000.0	9.000	N	ON	9.8
27.112013	---	22.64	50.00	27.36	15000.0	9.000	N	ON	9.7
27.112013	29.05	---	60.00	30.95	15000.0	9.000	N	ON	9.7

Note:

1. All modes have been tested and only the worst mode is recorded in the report.
2. L1 and N is all have been tested, the result of them is synthesized in the above data diagram.

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Report No.:25B02W000009-003

ANNEX A EUT Photos

See the document "25B02W000009-External Photos".

See the document "25B02W000009-Internal Photos".

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ANNEX B Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

*****END OF REPORT*****

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