

Prüfbericht-Nr.: Test report no.:	CN257220 002	Auftrags-Nr.: Order no.:	168544897	Seite 1 von 24 Page 1 of 24
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2025-03-25	
Auftraggeber: Client:	Sound Devices, LLC E7556 State Road 23 and 33, Reedsburg, WI 53959, United States Of America			
Prüfgegenstand: Test item:	Professional Handheld Wireless Microphone			
Bezeichnung / Typ-Nr.: Identification / Type no.:	Astral HH (Trademark: SOUND DEVICES)			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	CFR Title 47 FCC Part 15: Subpart C Section 15.247			
Wareneingangsdatum: Date of sample receipt:	2025-05-09	Please refer to Photo Document		
Prüfmuster-Nr.: Test sample no.:	STS2505036E03 STS2505036E04			
Prüfzeitraum: Testing period:	2025-05-13 - 2025-09-18			
Ort der Prüfung: Place of testing:	Refer to section 2.1			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	 Lin Lin		genehmigt von: authorized by:	 Hardy Suo
Datum: Date:	2025-10-15		Ausstellungsdatum: Issue date:	2025-10-15
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert
Sonstiges / Other:	FCC ID: 2AKLX-28297			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
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Anmerkungen
Remarks

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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 20dB BANDWIDTH

RESULT: Pass

5.1.4 CARRIER FREQUENCY SEPARATION

RESULT: Pass

5.1.5 NUMBER OF HOPPING FREQUENCY

RESULT: Pass

5.1.6 TIME OF OCCUPANCY

RESULT: Pass

5.1.7 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH

RESULT: Pass

5.1.8 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.9 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

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

Appendix A: Test Results of 2.4GHz NexLink

Appendix B: Photographs of the Test Set-up

2 Test Sites

2.1 Test Facilities

SHENZHEN STS TEST SERVICES CO., LTD.

101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

A2LA Certificate Number: 4338.01

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

RF Radiation Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2025.02.22	2026.02.21
Pre-Amplifier(1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2024.09.23	2025.09.22
Pre-Amplifier(18G-40GHz)	SKET	LNPA_1840-50	SK2018101801	2025.02.22	2026.02.21
Active loop Antenna	ZHINAN	ZN30900C	16035	2025.02.25	2026.02.24
Bilog Antenna	TESEQ	CBL6111D	34678	2024.09.30	2025.09.29
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2023.09.24	2025.09.23
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2023.10.10	2025.10.09
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2024.09.23	2025.09.22
Switch Control Box	N/A	N/A	N/A	N/A	N/A
Filter Box	BALUN Technology	SU319E	BL-SZ1530051	N/A	N/A
Antenna Mast	MF	MFA-440H	N/A	N/A	N/A
Turn Table	MF	SC100_1	60531	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC power supply	HONGSHENG FEN G	DPS-305AF	17064939	2024.09.23	2025.09.22
Test SW	EZ-EMC	Ver.STSLAB-03A1 RE			
Conduction Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2024.09.24	2025.09.23
Limtter	CYBERTEK	EM5010	N/A	2024.09.24	2025.09.23
LISN	R&S	ENV216	101242	2024.09.24	2025.09.23
LISN	EMCO	3810/2NM	23625	2024.09.24	2025.09.23
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
Test SW	EZ-EMC	Ver.STSLAB-03A1 CE			
RF Connected Test					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until

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Signal Analyzer	Agilent	N9020A	MY51510623	2025.02.22	2026.02.21
Power detector group	Keysight	NW2021031	N/A	2024.09.23	2025.09.22
Switch control box	MW	MW100-RFCB	N/A	N/A	N/A
Temperature & Humidity test chamber	Safety test	AG80L	171200018	2025.02.22	2026.02.21
Temperature & Humidity	SW-108	SuWei	N/A	2025.02.24	2026.02.23
Test SW	MW	MTS 8310_2.0.0.0			

2.3 Traceability

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

2.4 Calibration

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

2.5 Measurement Uncertainty

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

Table 2: Measurement Uncertainty

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.755\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.874\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 3.80\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 4.18\text{dB}$
5	All emissions, radiated 1G-6GHz	$\pm 4.90\text{dB}$
6	All emissions, radiated >6G	$\pm 5.24\text{dB}$
7	Conducted Emission (9KHz-150KHz)	$\pm 2.19\text{dB}$
8	Conducted Emission (150KHz-30MHz)	$\pm 2.53\text{dB}$
9	Occupied Channel Bandwidth	$\pm 3.5\%$
10	Duty Cycle	$\pm 3.2\%$

2.6 Location of Original Data

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

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2.7 Status of Facility Used for Testing

The SHENZHEN STS TEST SERVICES CO., LTD. Test facility located at 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT is a Professional Handheld Wireless Microphone, which supports Bluetooth low energy, 2.4GHz NexLink and Microphone functions.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	Professional Handheld Wireless Microphone
Type Designation:	Astral HH
Trademark:	SOUND DEVICES
FCC ID:	2AKLX-28297
Operating Voltage:	USB-C operated, or Battery operated (3.7Vdc, 4000mAh)
Operating Temperature Range:	-10 °C ~ +40 °C
Technical Specification of 2.4GHz NexLink	
Characteristic	Description
Operating Frequency:	2400.8 MHz to 2481.6 MHz
Type of Modulation:	FHSS
Channel Number:	203 channels
Channel Separation:	0.4MHz
Antenna Type:	Integrated Antenna
Antenna Gain:	-5.54 dBi (Provided by the Client)

Note: The correctness of all data provided by customer in the test report is ensured and responsible of the customer. Any misjudgment of the test results caused by the use of incorrect data provided by customer shall be borne by the customer.

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Table 4: RF Channel and Frequency of 2.4GHz NexLink

Channel List									
CH.	Fre.(MHz)	CH.	Fre.(MHz)	CH.	Fre.(MHz)	CH.	Fre.(MHz)	CH.	Fre.(MHz)
0	2400.8	50	2420.8	100	2440.8	150	2460.8	200	2480.8
1	2401.2	51	2421.2	101	2441.2	151	2461.2	201	2481.2
2	2401.6	52	2421.6	102	2441.6	152	2461.6	202	2481.6
3	2402	53	2422	103	2442	153	2462		
4	2402.4	54	2422.4	104	2442.4	154	2462.4		
5	2402.8	55	2422.8	105	2442.8	155	2462.8		
6	2403.2	56	2423.2	106	2443.2	156	2463.2		
7	2403.6	57	2423.6	107	2443.6	157	2463.6		
8	2404	58	2424	108	2444	158	2464		
9	2404.4	59	2424.4	109	2444.4	159	2464.4		
10	2404.8	60	2424.8	110	2444.8	160	2464.8		
11	2405.2	61	2425.2	111	2445.2	161	2465.2		
12	2405.6	62	2425.6	112	2445.6	162	2465.6		
13	2406	63	2426	113	2446	163	2466		
14	2406.4	64	2426.4	114	2446.4	164	2466.4		
15	2406.8	65	2426.8	115	2446.8	165	2466.8		
16	2407.2	66	2427.2	116	2447.2	166	2467.2		
17	2407.6	67	2427.6	117	2447.6	167	2467.6		
18	2408	68	2428	118	2448	168	2468		
19	2408.4	69	2428.4	119	2448.4	169	2468.4		
20	2408.8	70	2428.8	120	2448.8	170	2468.8		
21	2409.2	71	2429.2	121	2449.2	171	2469.2		
22	2409.6	72	2429.6	122	2449.6	172	2469.6		
23	2410	73	2430	123	2450	173	2470		
24	2410.4	74	2430.4	124	2450.4	174	2470.4		
25	2410.8	75	2430.8	125	2450.8	175	2470.8		
26	2411.2	76	2431.2	126	2451.2	176	2471.2		
27	2411.6	77	2431.6	127	2451.6	177	2471.6		
28	2412	78	2432	128	2452	178	2472		
29	2412.4	79	2432.4	129	2452.4	179	2472.4		
30	2412.8	80	2432.8	130	2452.8	180	2472.8		
31	2413.2	81	2433.2	131	2453.2	181	2473.2		
32	2413.6	82	2433.6	132	2453.6	182	2473.6		
33	2414	83	2434	133	2454	183	2474		
34	2414.4	84	2434.4	134	2454.4	184	2474.4		
35	2414.8	85	2434.8	135	2454.8	185	2474.8		
36	2415.2	86	2435.2	136	2455.2	186	2475.2		
37	2415.6	87	2435.6	137	2455.6	187	2475.6		
38	2416	88	2436	138	2456	188	2476		
39	2416.4	89	2436.4	139	2456.4	189	2476.4		
40	2416.8	90	2436.8	140	2456.8	190	2476.8		
41	2417.2	91	2437.2	141	2457.2	191	2477.2		
42	2417.6	92	2437.6	142	2457.6	192	2477.6		
43	2418	93	2438	143	2458	193	2478		
44	2418.4	94	2438.4	144	2458.4	194	2478.4		
45	2418.8	95	2438.8	145	2458.8	195	2478.8		

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46	2419.2	96	2439.2	146	2459.2	196	2479.2		
47	2419.6	97	2439.6	147	2459.6	197	2479.6		
48	2420	98	2440	148	2460	198	2480		
49	2420.4	99	2440.4	149	2460.4	199	2480.4		

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, 2.4GHz NexLink transmitting mode (Low / Middle / High channel)
- B. On, Transmitting on Hopping channel
- C. On, Keeping TX
- D. Co-location with Wireless Microphone
- E. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- User Manual
- Operation Description
- ID Label and Location Info

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

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

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

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10:2020.

According to clause 3.1, all tests were performed on model *Astral HH* in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

Item	Equipment	Mfr/Brand	Model/Type No.	Note
E-1	Notebook	HP	HP Spectre Pro x360 G2	N/A
E-2	Adapter	HP	HP Spectre Pro x360 G2	N/A
C-1	USB Cable	N/A	TTL-232R-3V3	N/A

Item	Equipment	Mfr/Brand	Length	Note
C-1	Shielded	NO	100cm	N/A

4.4 Countermeasures to Achieve EMC Compliance

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

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

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

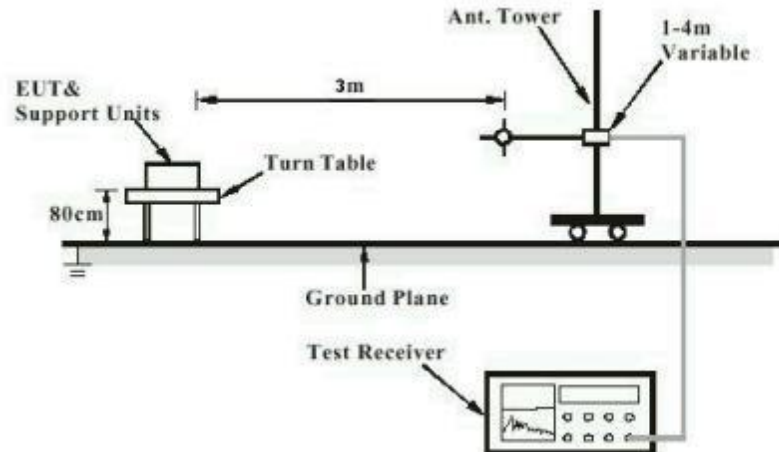


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

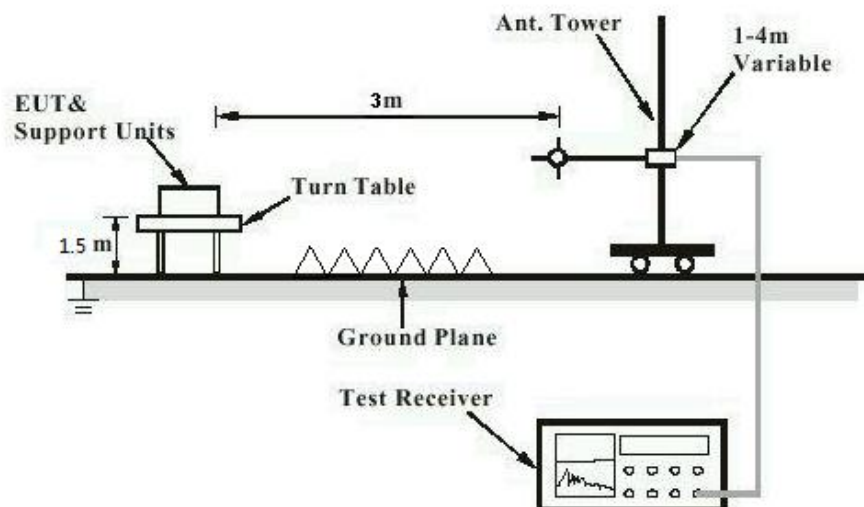


Diagram of Measurement Configuration for Mains Conduction Measurement

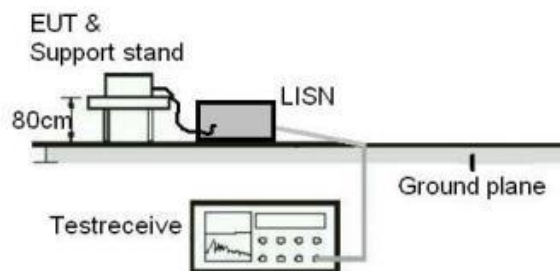
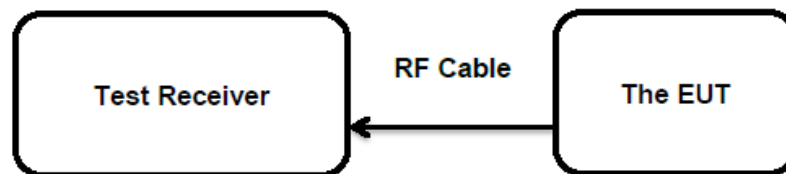


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

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

According to the manufacturer declared, the EUT has Integrated Antenna, permanent attachment and no consideration of replacement, refer to section 3.2 for details.

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

Refer to EUT Photo for further details.

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5.1.2 Maximum Peak Conducted Output Power

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(b)(1)
Basic standard	: ANSI C63.10:2020
Limits	: FHSS < 0.125 Watts
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-05-13 to 2025-05-20
Input voltage	: Battery operated (3.7Vdc)
Operation mode	: A
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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5.1.3 20dB Bandwidth

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

Test standard	: FCC Part 15.247(a)(1)
Basic standard	: ANSI C63.10:2020
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-05-13 to 2025-05-20
Input voltage	: Battery operated (3.7Vdc)
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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5.1.4 Carrier Frequency Separation

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(a)(1)
Basic standard	: ANSI C63.10:2020
Limits	: $\geq 25\text{kHz}$ or 2/3 of 20dB bandwidth, whichever is greater
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-05-13 to 2025-05-20
Input voltage	: Battery operated (3.7Vdc)
Operation mode	: B
Test channel	: Low / Middle / High
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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5.1.5 Number of Hopping Frequency

RESULT:

Pass

Test Specification

Test standard	: FCC part 15.247(a)(1)(iii)
Basic standard	: ANSI C63.10:2020
Limits	: ≥ 15 non-overlapping channels
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-05-13 to 2025-05-20
Input voltage	: Battery operated (3.7Vdc)
Operation mode	: B
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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5.1.6 Time of Occupancy

RESULT:

Pass

Test Specification

Test standard	: FCC part 15.247(a)(1)(iii)
Basic standard	: ANSI C63.10:2020
Limits	: < 0.4s
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-05-13 to 2025-05-20
Input voltage	: Battery operated (3.7Vdc)
Operation mode	: B
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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5.1.7 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(d)
Basic standard	: ANSI C63.10:2020
Limits	: 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-05-13 to 2025-05-20
Input voltage	: Battery operated (3.7Vdc)
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to test plots, and compliance is achieved as well.

For the measurement records, refer to the appendix A.

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5.1.8 Radiated Spurious Emission

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

Test standard	: FCC Part 15.247(d) & FCC Part 15.205
Basic standard	: ANSI C63.10:2020
Limits	: Refer to 15.209(a) of FCC part 15.247(d)
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2025-05-13 to 2025-09-18
Input voltage	: Battery operated (3.7Vdc)
Operation mode	: A, D
Test channel	: Low / Middle / High
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

Remark:

- Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.
- For co-location mode, there are no emissions that exceed the highest limit.

For the measurement records, refer to the appendix A.

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5.1.9 Conducted Emission on AC Mains

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

Test standard	: FCC Part 15.207(a)
Basic standard	: ANSI C63.10:2020
Frequency range	: 0.15 – 30MHz
Classification	: Class B
Limits	: FCC Part 15.207(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-05-13 to 2025-09-06
Input voltage	: AC 120V, 60Hz
Operation mode	: C
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

6 Photographs of the Test Set-Up

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

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Appendix A: Test Results of 2.4GHz NexLink

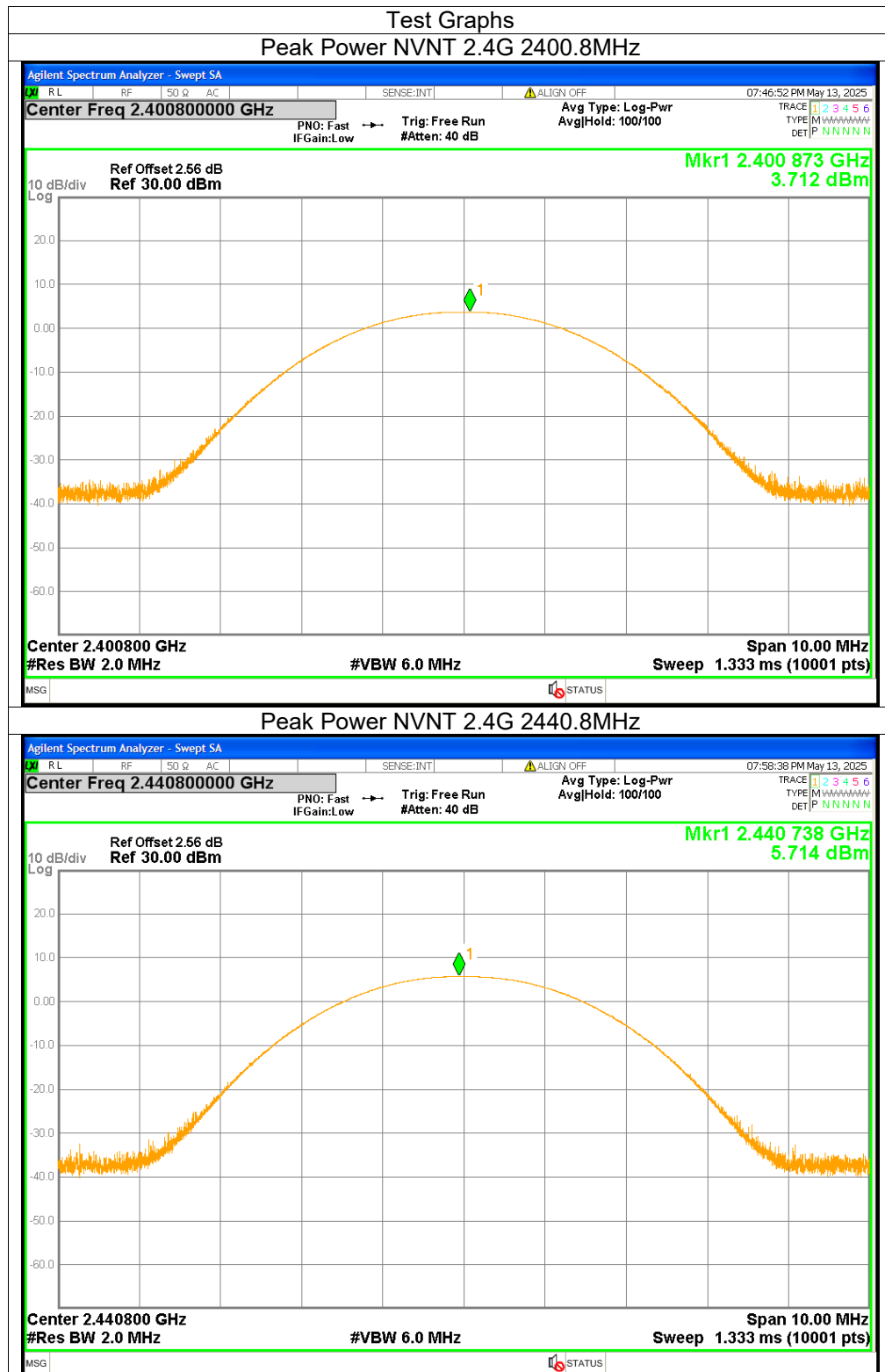
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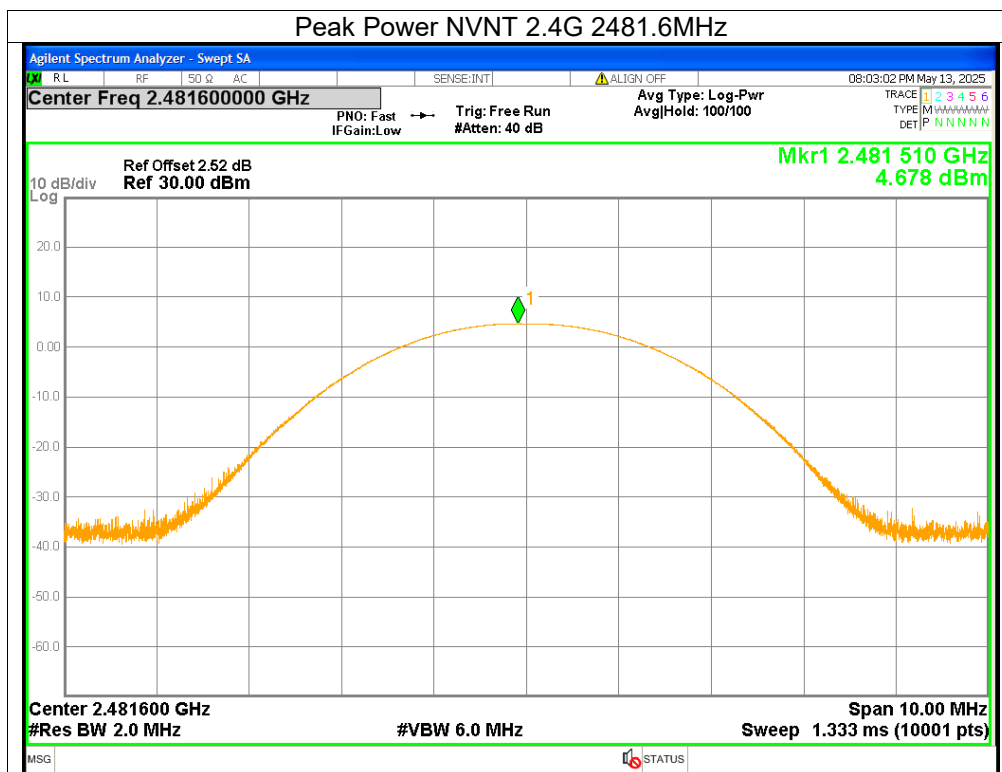
Appendix A.1: Test Results of Maximum Peak Conducted Output Power

Test Result

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	2.4G	2400.8	3.71	<=20.97	Pass
NVNT	2.4G	2440.8	5.71	<=20.97	Pass
NVNT	2.4G	2481.6	4.68	<=20.97	Pass

Test Graphs



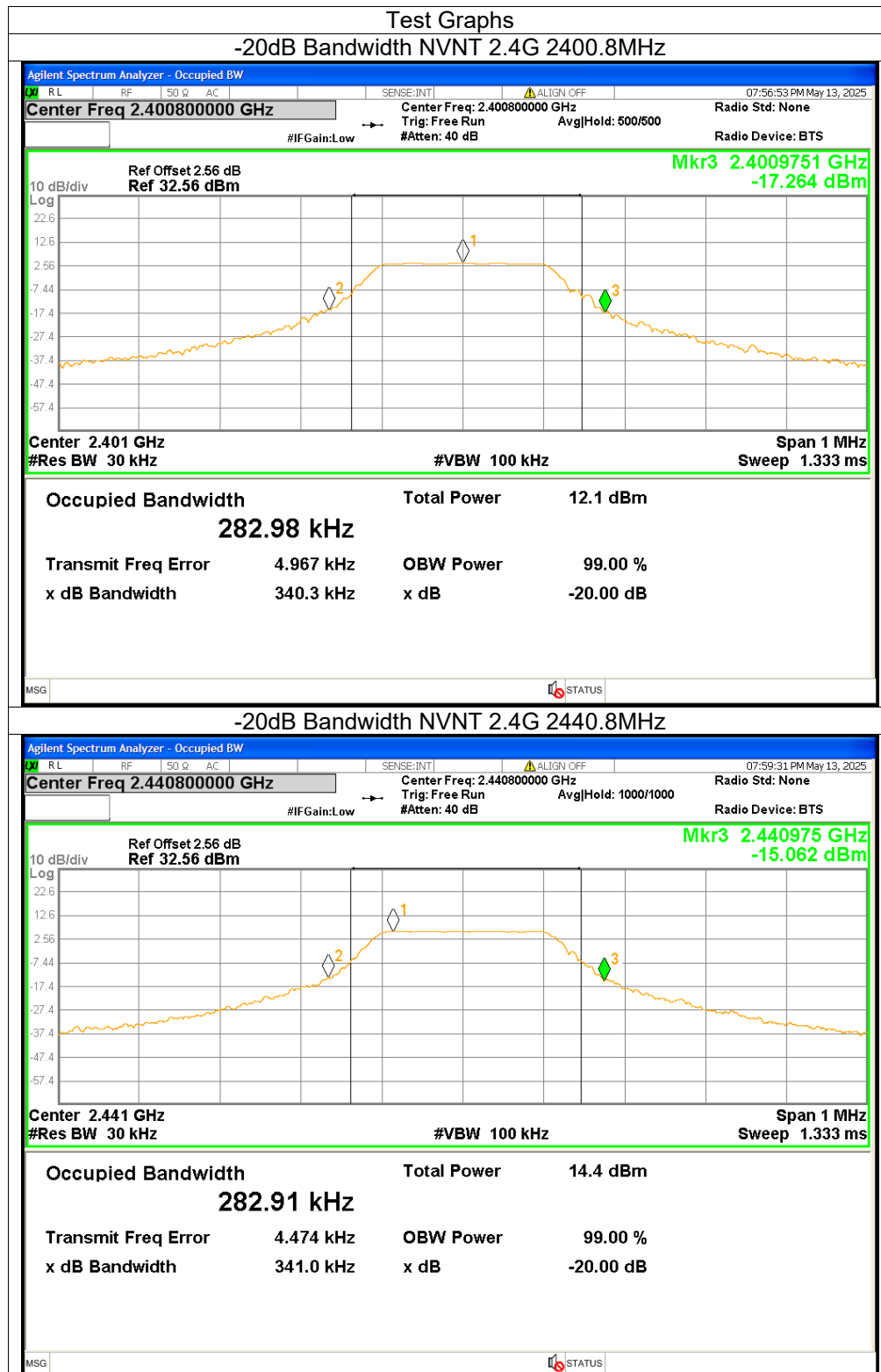


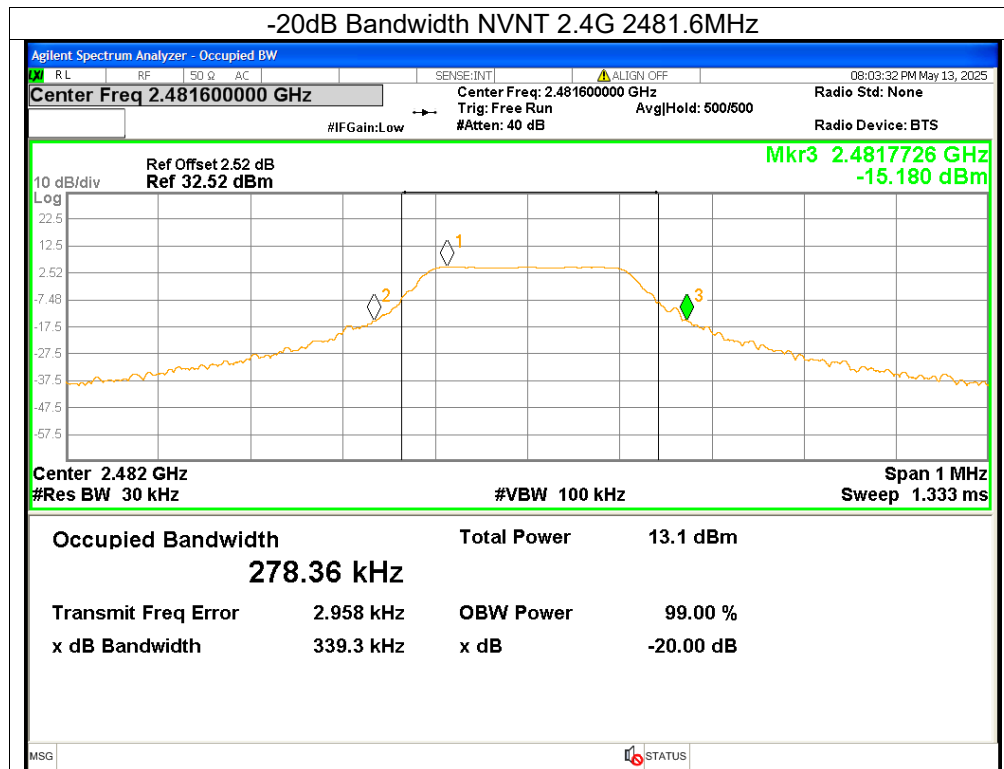
Appendix A.2: Test Results of 20dB Bandwidth

Test Result

Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	2.4G	2400.8	0.3403	Pass
NVNT	2.4G	2440.8	0.341	Pass
NVNT	2.4G	2481.6	0.3393	Pass

Test Graphs





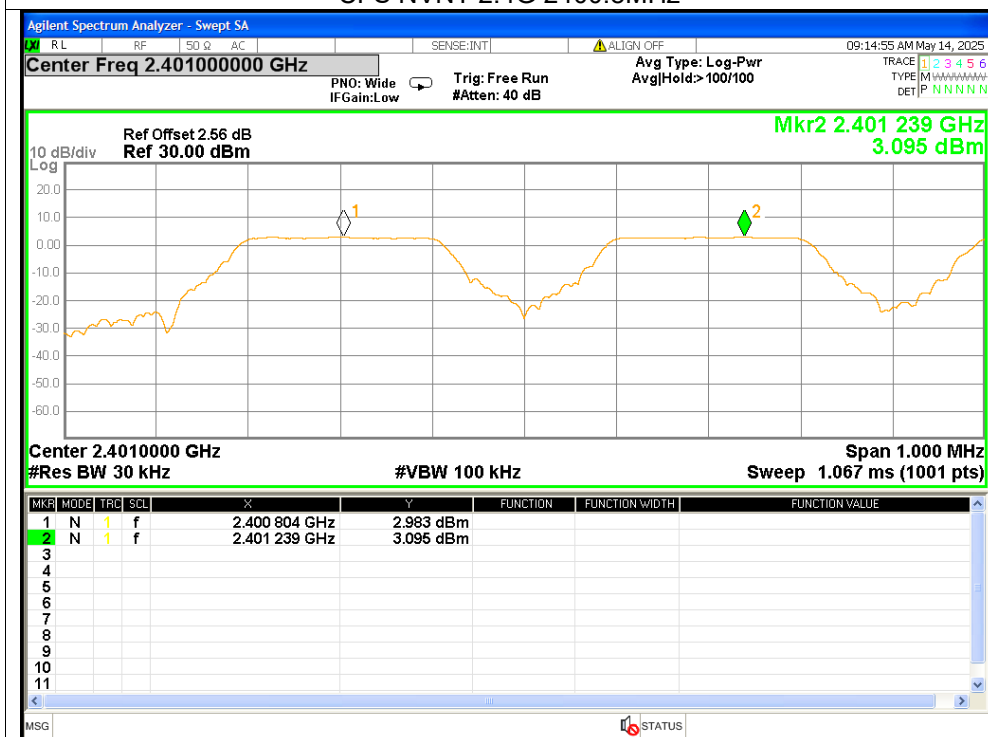
Appendix A.3: Test Results of Carrier Frequency Separation

Test Result

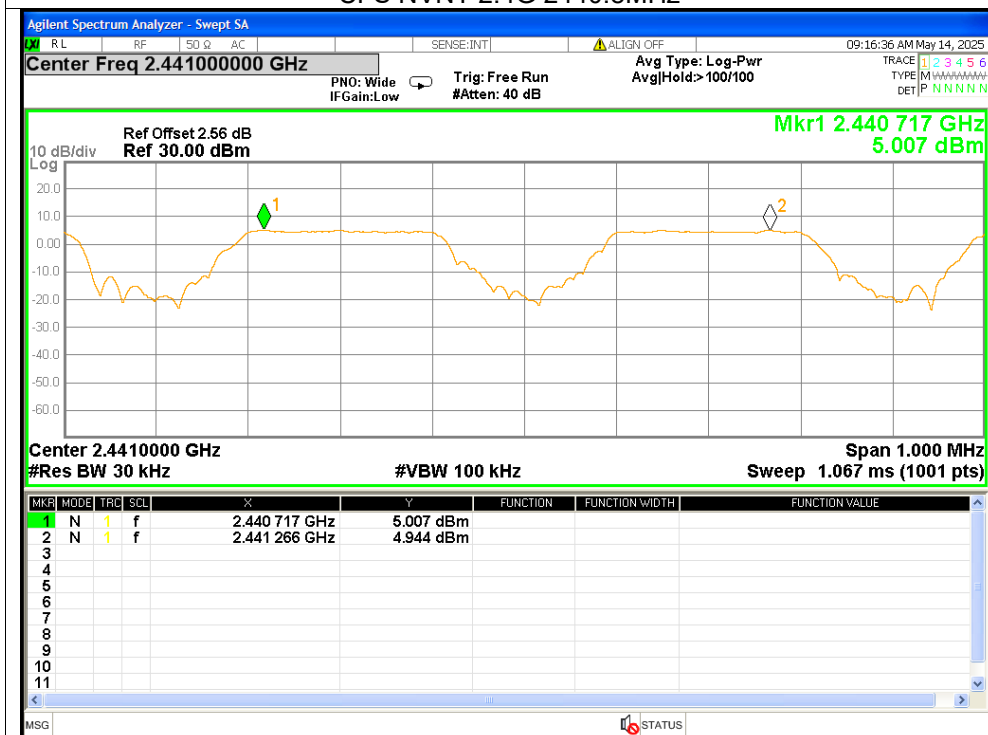
Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	2.4G	2400.804	2401.239	0.435	≥ 0.227	Pass
NVNT	2.4G	2440.717	2441.266	0.549	≥ 0.227	Pass
NVNT	2.4G	2481.155	2481.542	0.387	≥ 0.226	Pass

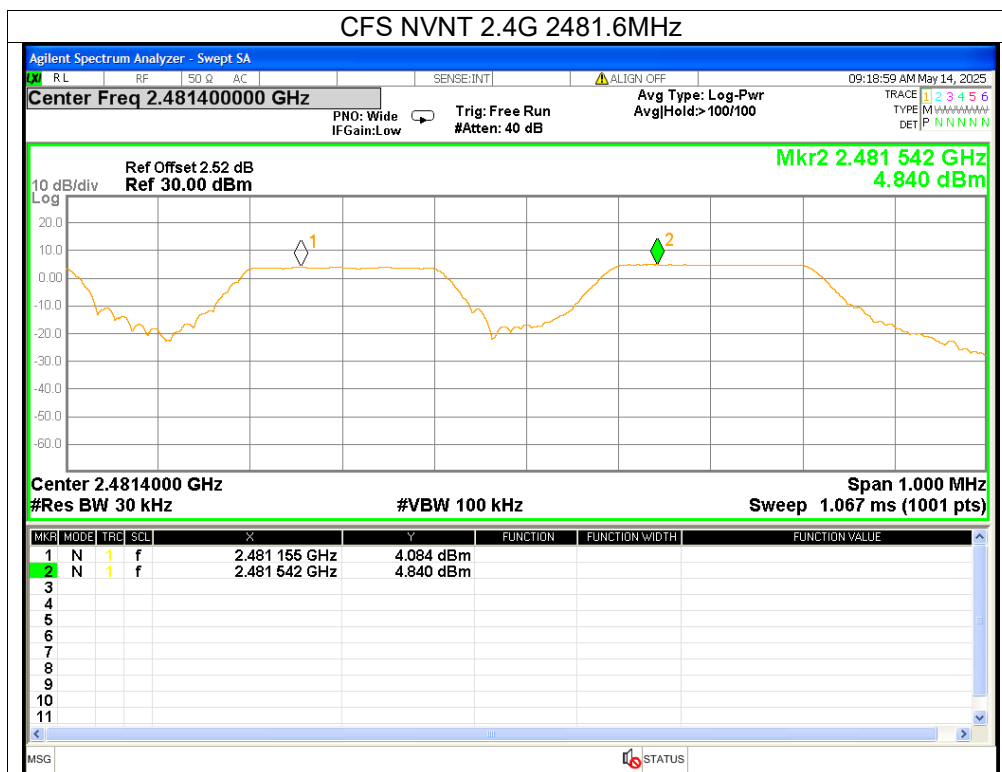
Test Graphs

Test Graphs



CFS NVNT 2.4G 2440.8MHz





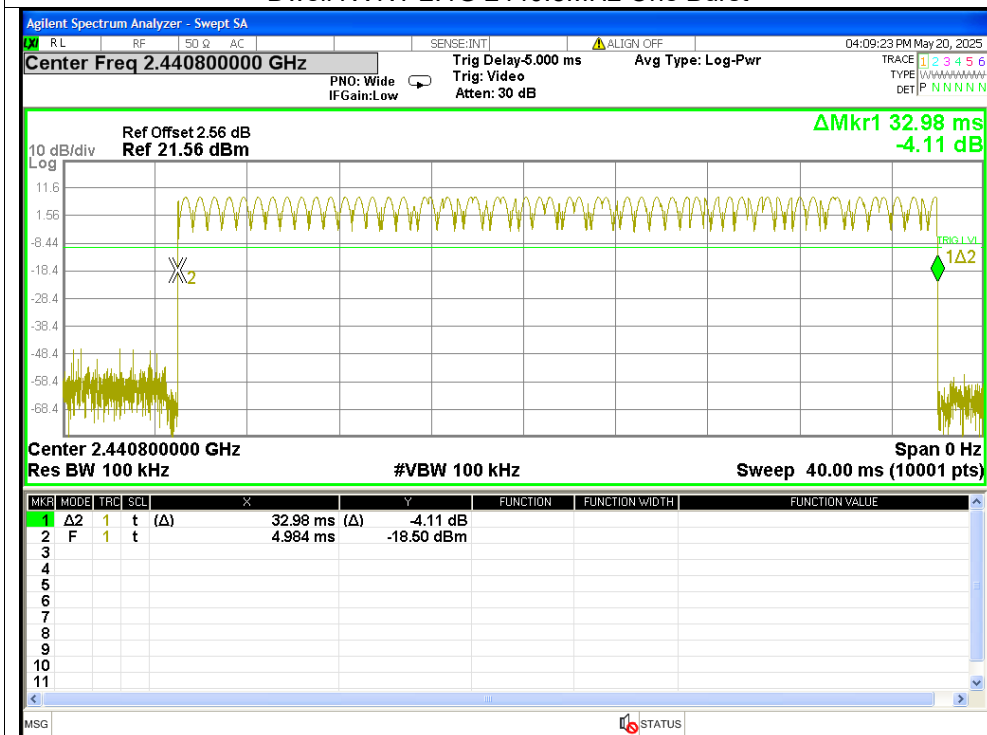
Appendix A.4: Test Results of Time of Occupancy

Test Result

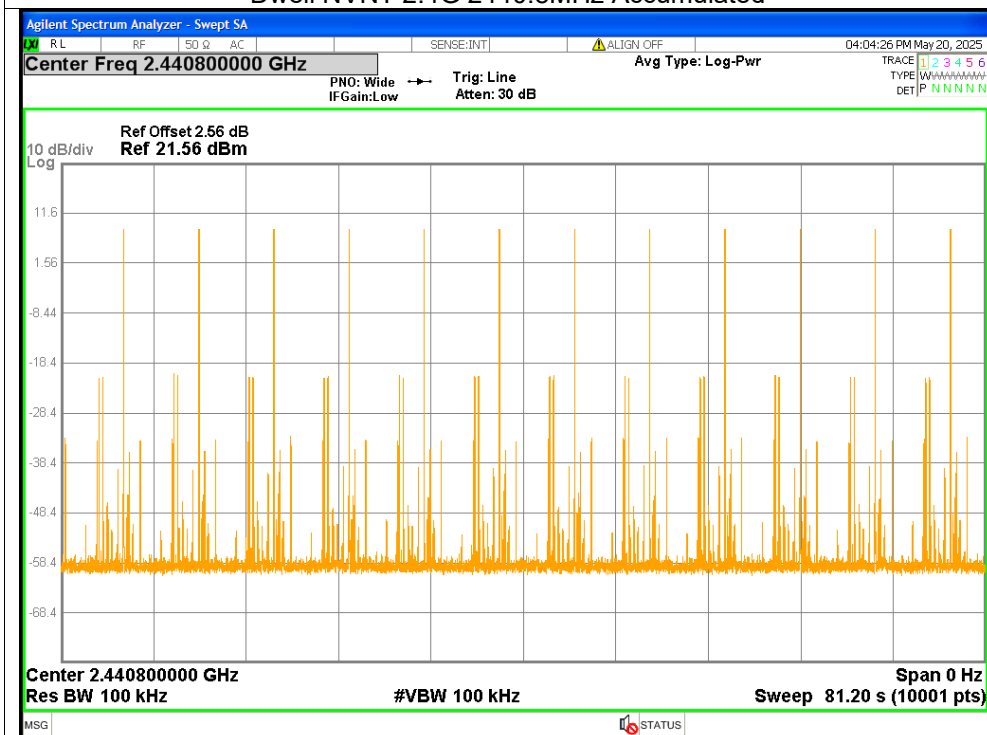
Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	2.4G	2440.8	32.98	395.76	12	81200	<=400	Pass

Test Graphs

Test Graphs
Dwell NVNT 2.4G 2440.8MHz One Burst



Dwell NVNT 2.4G 2440.8MHz Accumulated

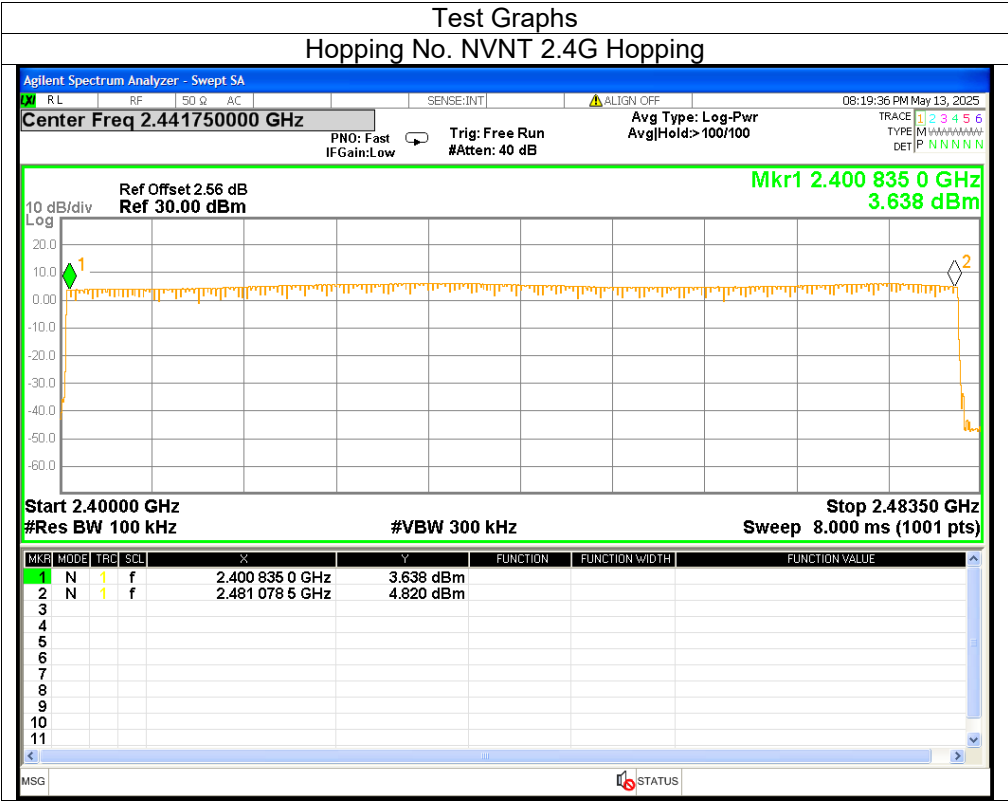


Appendix A.5: Test Results of Number of Hopping Frequency

Test Result

Condition	Mode	Hopping Number	Limit	Verdict
NVNT	2.4G	79	≥ 15	Pass

Test Graphs



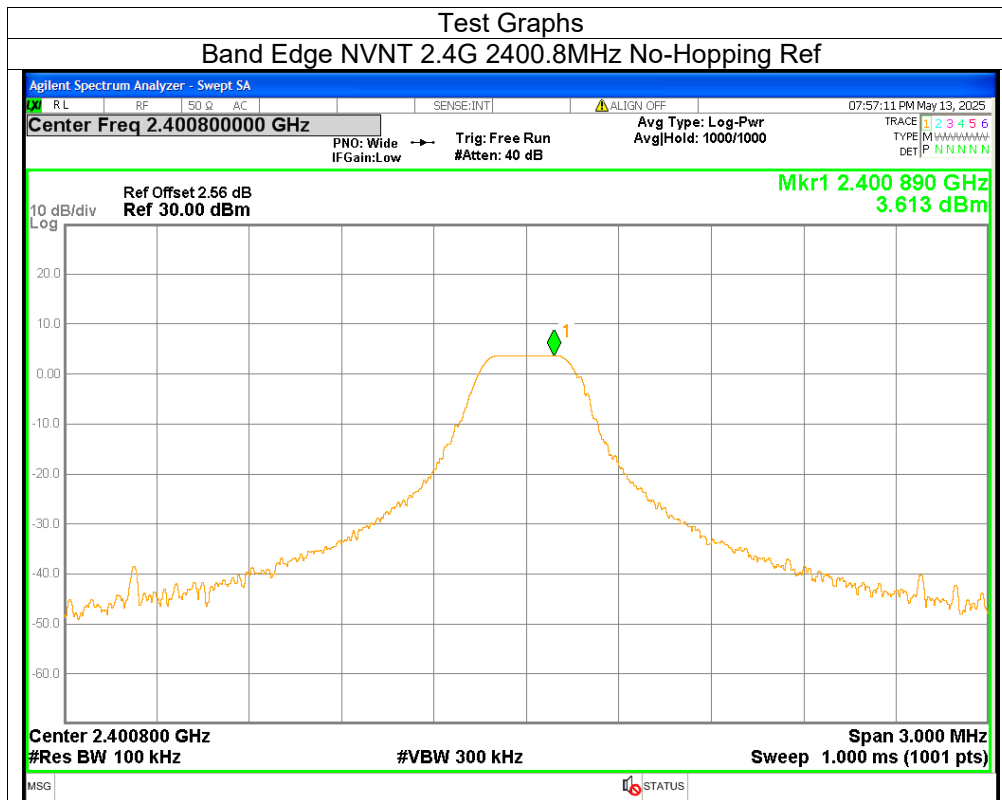
Appendix A.6: Test Results of Band Edge Measurements

Test Result

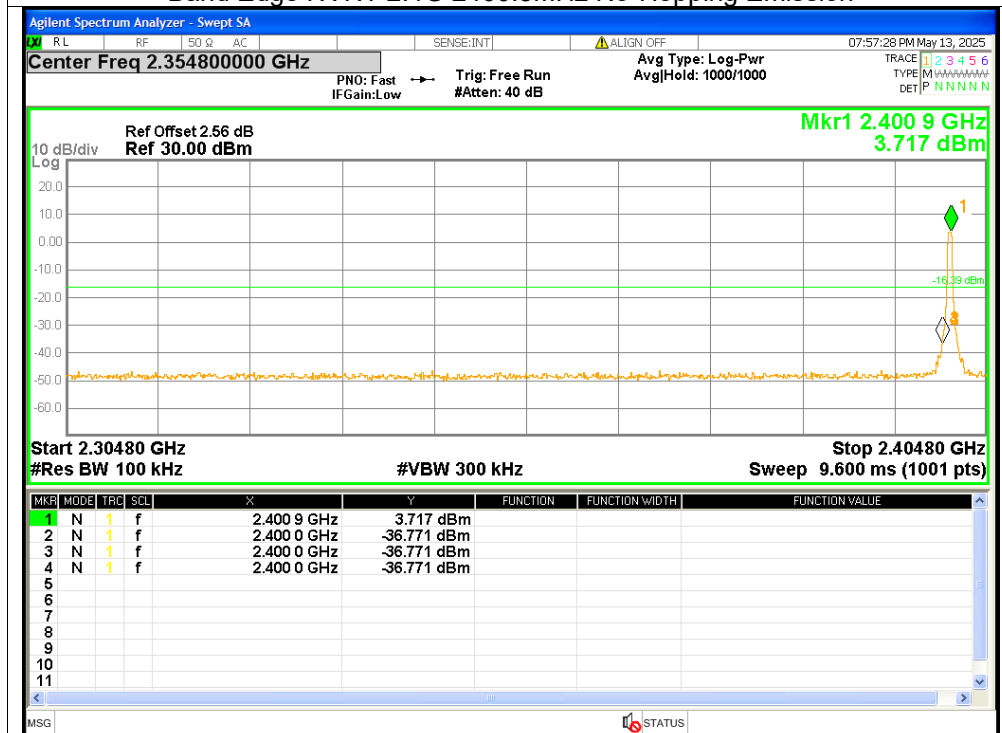
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2400.8	No-Hopping	-40.38	<=-20	Pass
NVNT	2.4G	2481.6	No-Hopping	-51.1	<=-20	Pass

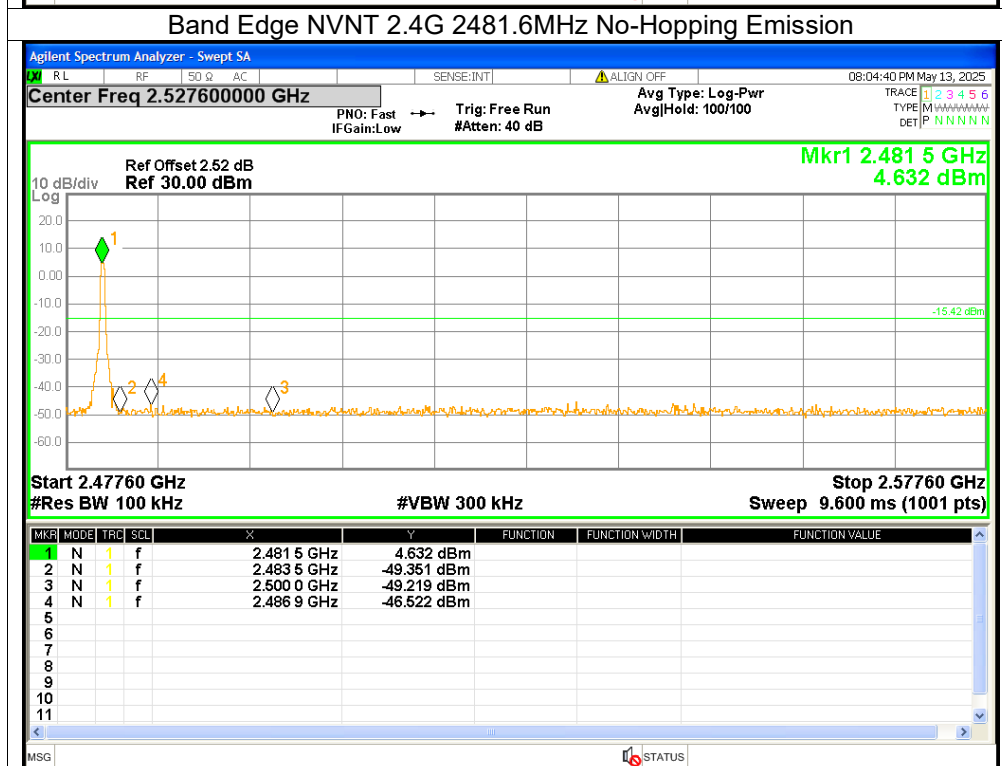
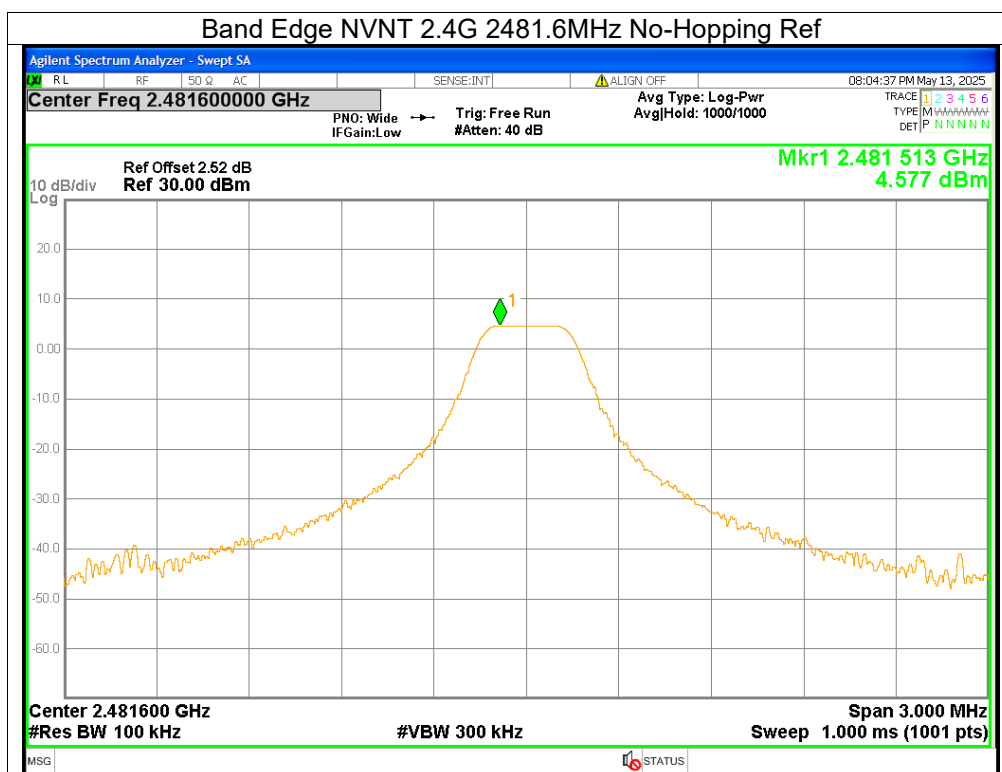
Test Graphs

Test Graphs



Band Edge NVNT 2.4G 2400.8MHz No-Hopping Emission

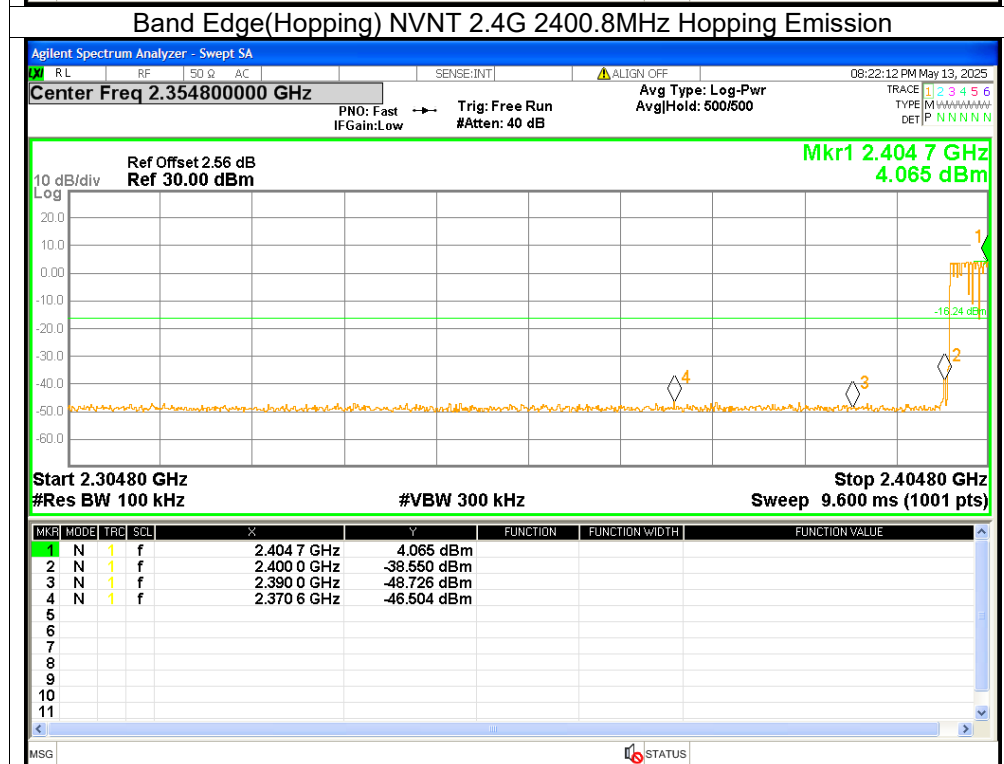
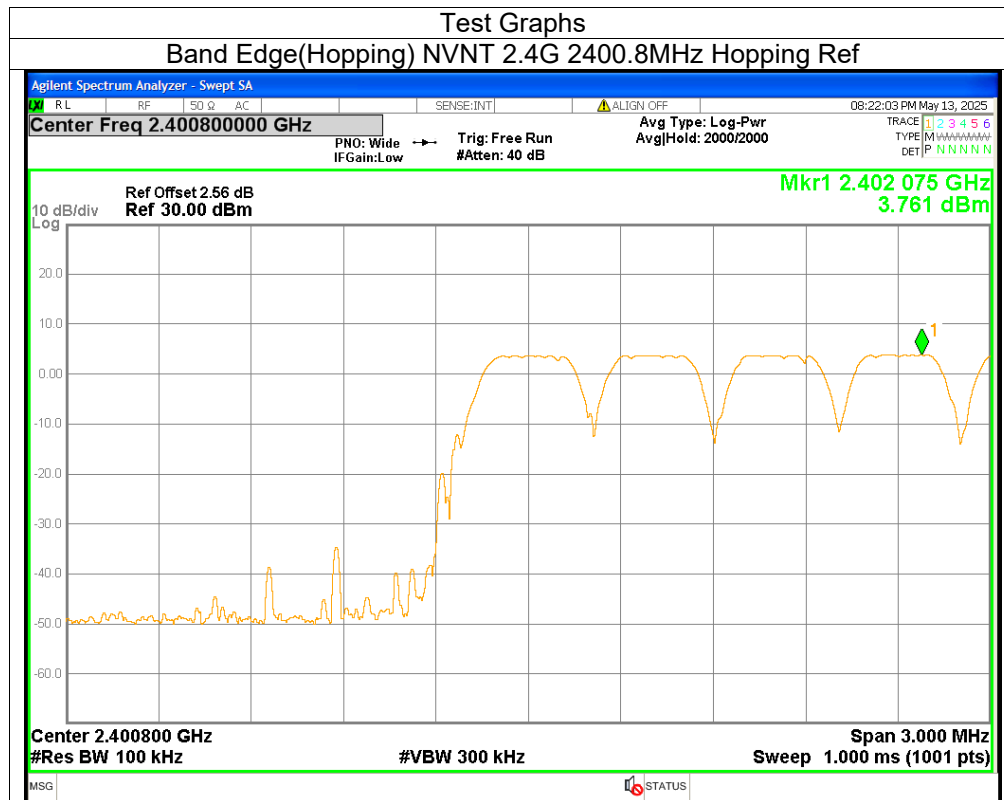




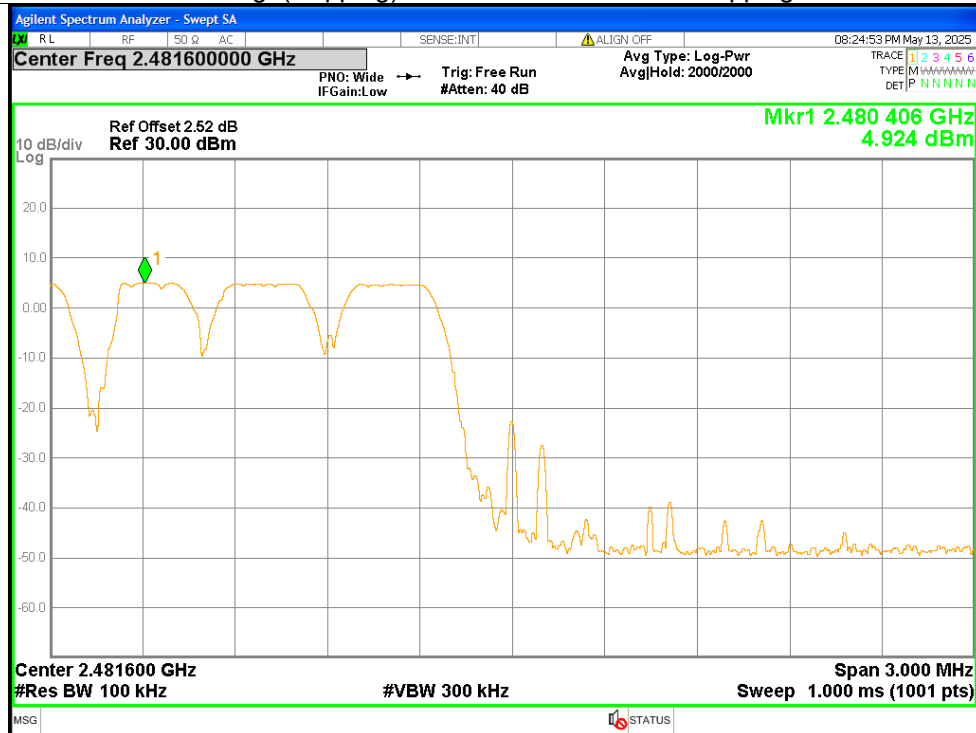
Test Result (Hopping)

Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2400.8	Hopping	-50.26	<=-20	Pass
NVNT	2.4G	2481.6	Hopping	-50.65	<=-20	Pass

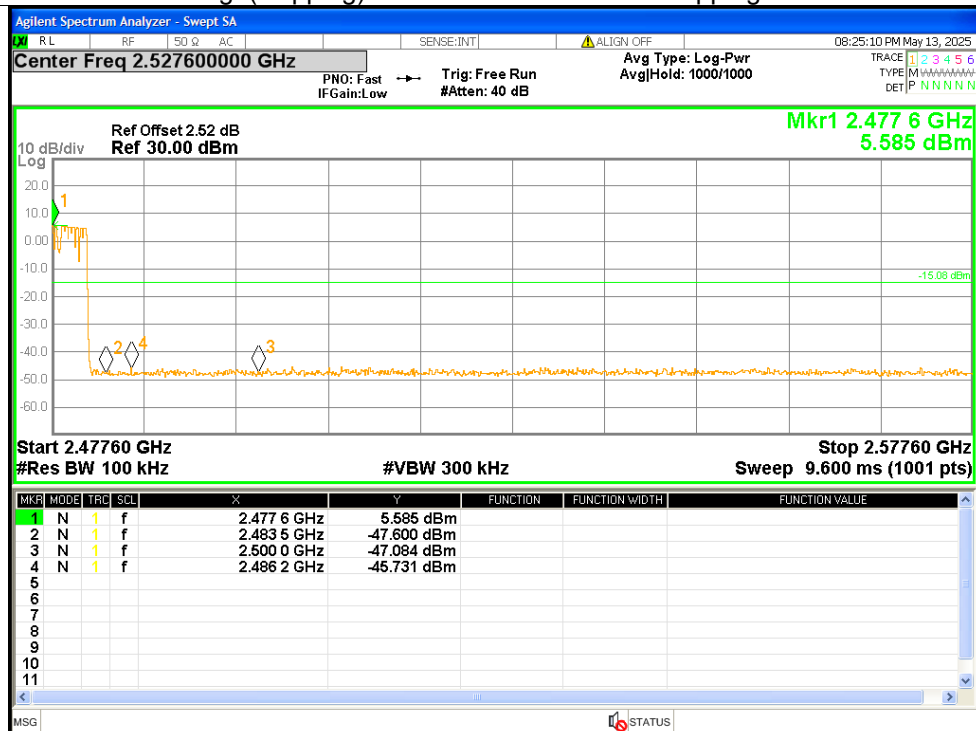
Test Graphs (Hopping)



Band Edge(Hopping) NVNT 2.4G 2481.6MHz Hopping Ref



Band Edge(Hopping) NVNT 2.4G 2481.6MHz Hopping Emission



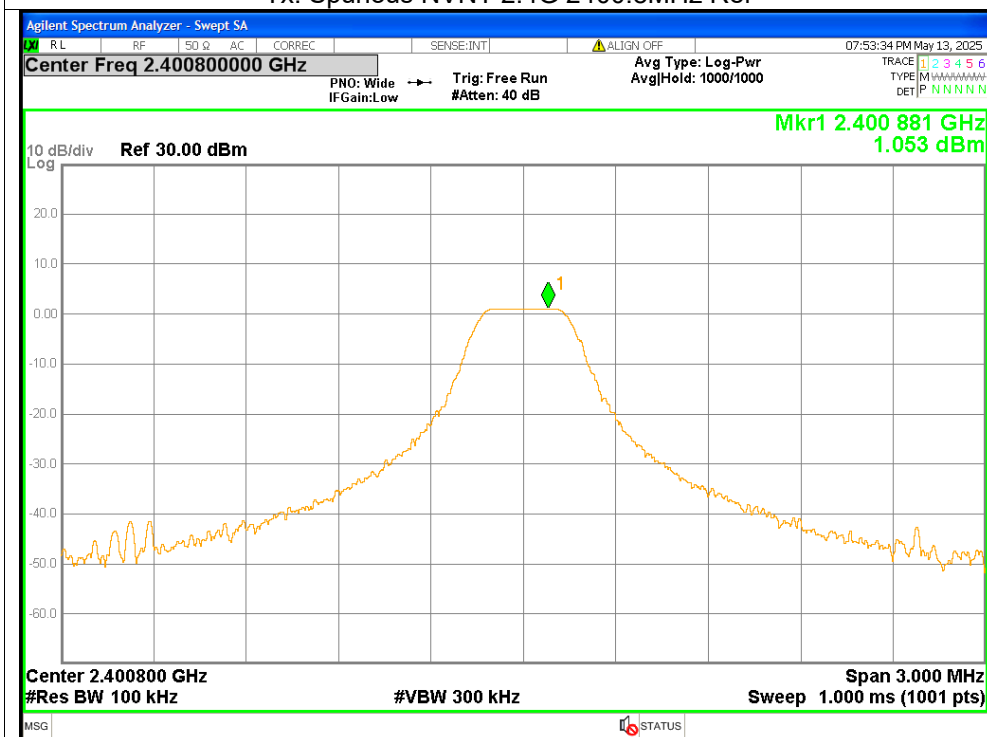
Appendix A.7: Test Results of Conducted Spurious Emission

Test Result

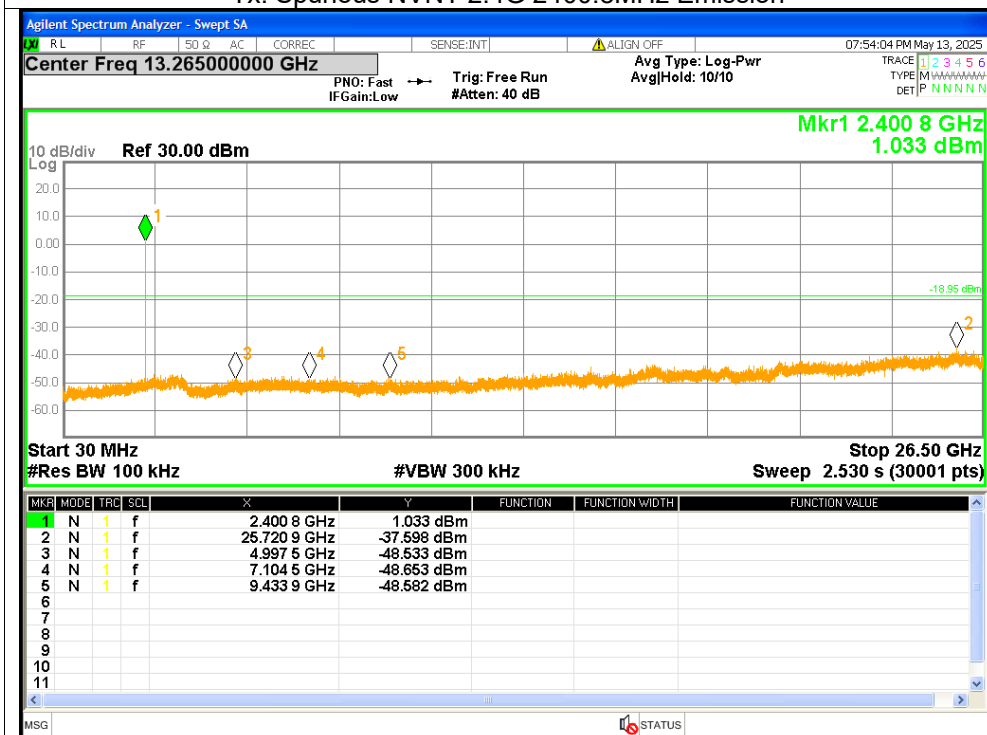
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2.4G	2400.8	-38.64	<=-20	Pass
NVNT	2.4G	2440.8	-41.57	<=-20	Pass
NVNT	2.4G	2481.6	-40.26	<=-20	Pass

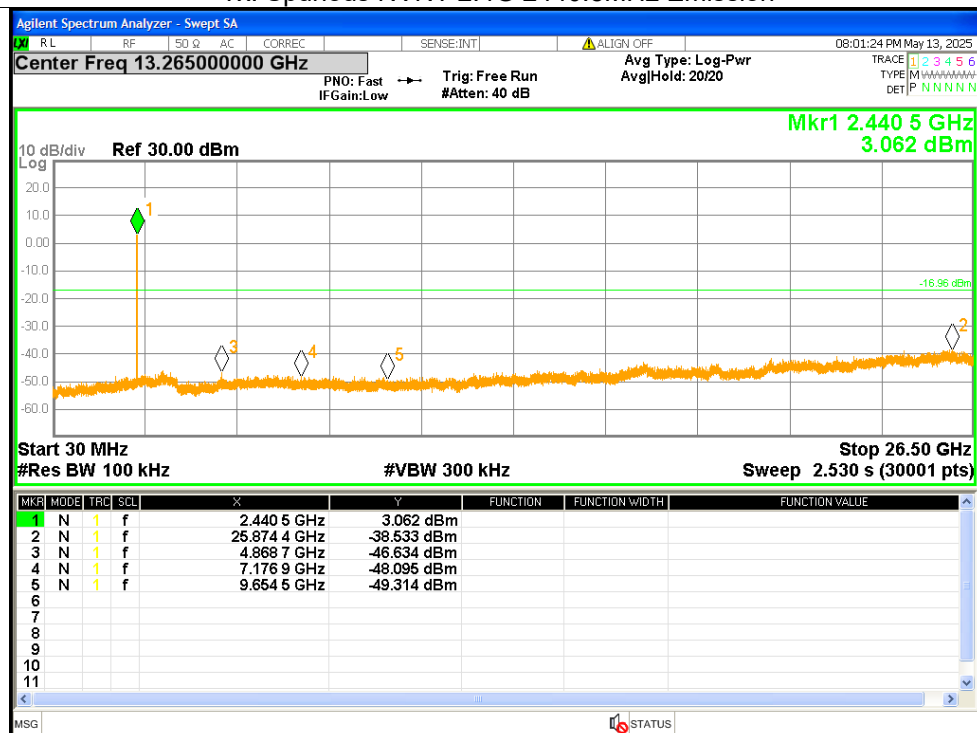
Test Graphs

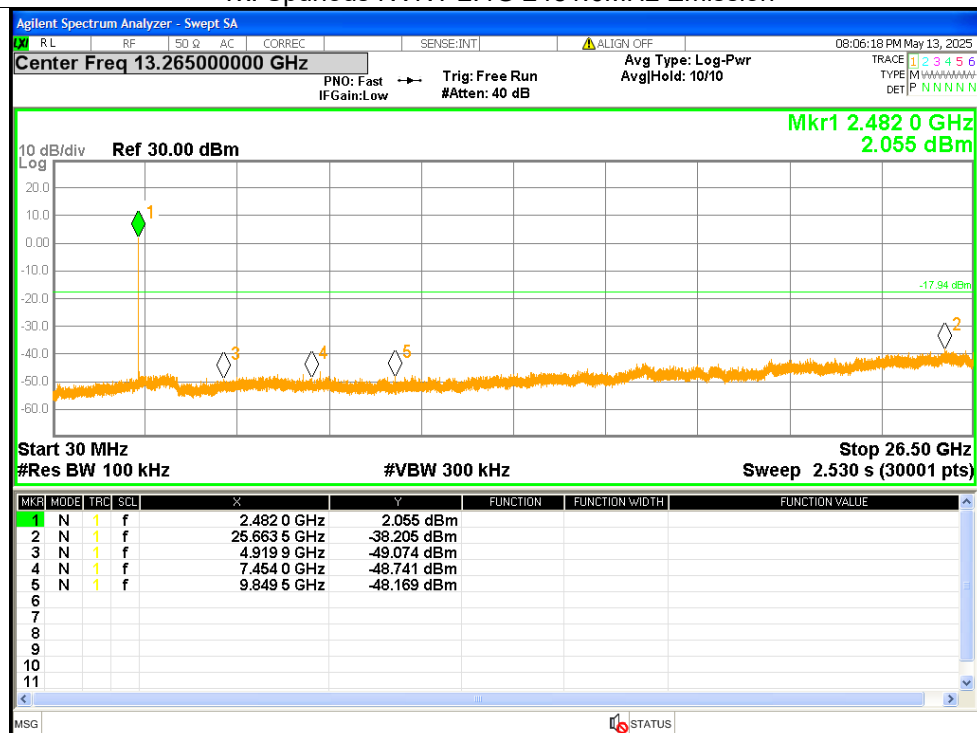
Test Graphs
Tx. Spurious NVNT 2.4G 2400.8MHz Ref



Tx. Spurious NVNT 2.4G 2400.8MHz Emission







Appendix A.8: Test Results of Radiated Spurious Emissions

9kHz - 30 MHz

Temperature:	23.4°C	Relative Humidity:	60%
Test Voltage:	DC 3.7V	Polarization:	--
Test Mode:	Mode A		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

30 MHz - 1GHz

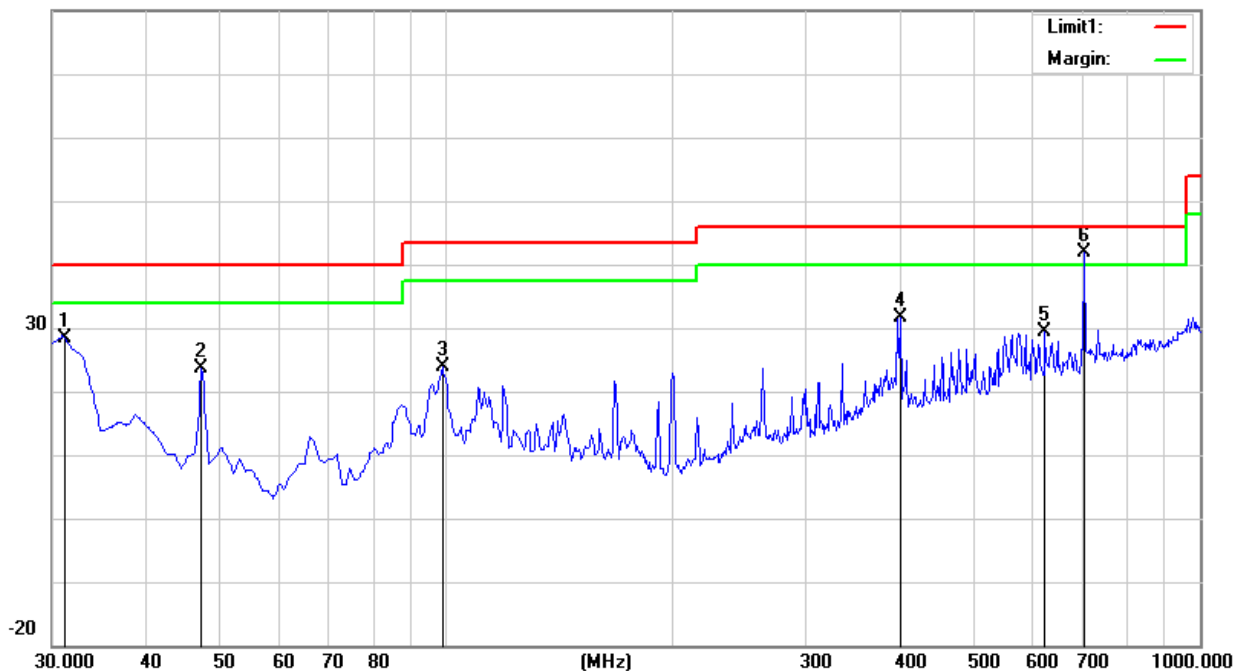
Temperature:	23.4°C	Relative Humidity:	60%
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	Mode A (Middle CH worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	31.1798	41.80	-13.46	28.34	40.00	-11.66	peak
2	47.4600	45.58	-21.92	23.66	40.00	-16.34	peak
3	98.8700	44.07	-20.31	23.76	43.50	-19.74	peak
4	401.5100	42.75	-11.06	31.69	46.00	-14.31	peak
5	624.6100	34.78	-5.29	29.49	46.00	-16.51	peak
6	703.1800	46.00	-4.07	41.93	46.00	-4.07	peak

Remark:

1. Margin = Result (Result =Reading + Factor)-Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain
3. All modes have been tested,only show the worst case.

80.0 dBuV/m

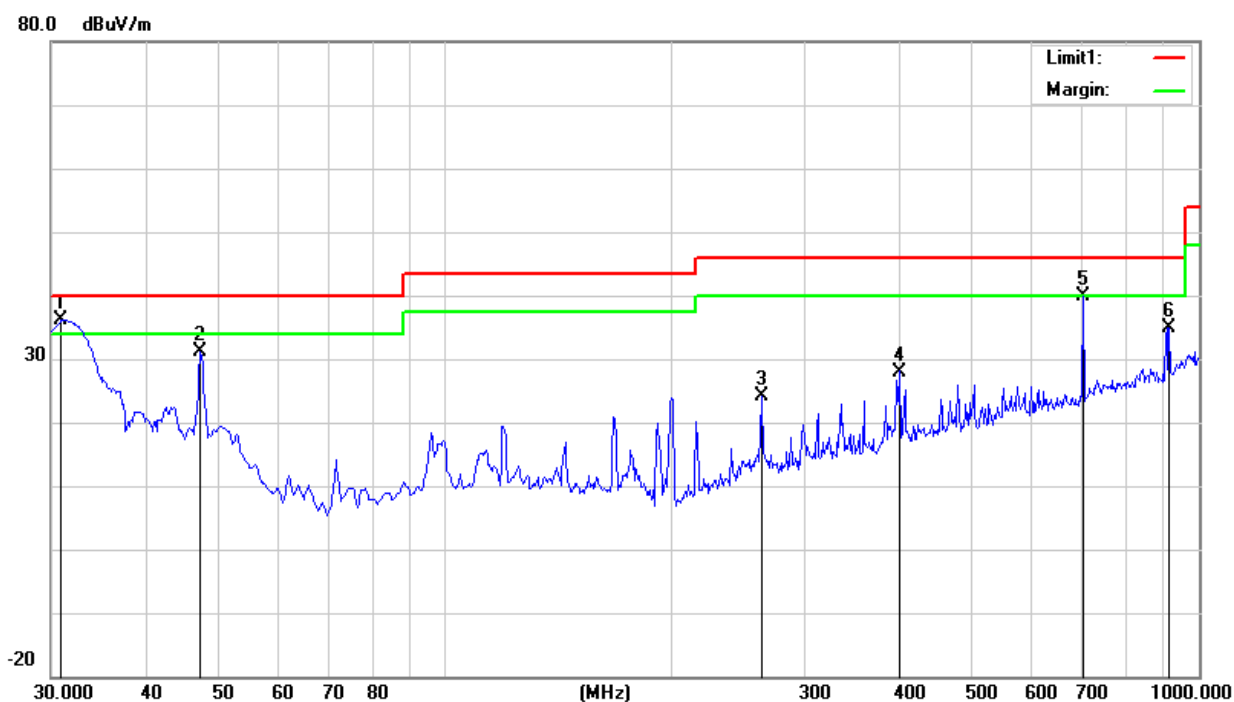


Temperature:	23.4°C	Relative Humidity:	60%
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	Mode A (Middle CH worst mode)		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.9700	49.59	-13.35	36.24	40.00	-3.76	peak
2	47.4600	53.10	-21.92	31.18	40.00	-8.82	peak
3	263.7700	38.80	-14.75	24.05	46.00	-21.95	peak
4	400.5400	39.11	-11.11	28.00	46.00	-18.00	peak
5	703.1800	43.92	-4.07	39.85	46.00	-6.15	peak
6	913.6700	35.08	-0.13	34.95	46.00	-11.05	peak

Remark:

1. Margin = Result (Result = Reading + Factor) - Limit
2. Factor = Antenna factor + Cable attenuation factor (cable loss) - Amplifier gain



1GHz - 25GHz

Frequency (MHz)	Meter Reading (dBµV)	Amplifier (dB)	Loss (dB)	Antenna Factor (dB/m)	Corrected Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector Type	Comment
Low Channel (GFSK/2400.8 MHz)										
3264.90	62.09	44.70	6.70	28.20	-9.80	52.29	74.00	-21.71	PK	Vertical
3264.90	51.34	44.70	6.70	28.20	-9.80	41.54	54.00	-12.46	AV	Vertical
3264.66	61.33	44.70	6.70	28.20	-9.80	51.53	74.00	-22.47	PK	Horizontal
3264.66	50.36	44.70	6.70	28.20	-9.80	40.56	54.00	-13.44	AV	Horizontal
4804.50	59.44	44.20	9.04	31.60	-3.56	55.88	74.00	-18.12	PK	Vertical
4804.50	49.82	44.20	9.04	31.60	-3.56	46.26	54.00	-7.74	AV	Vertical
4804.58	59.36	44.20	9.04	31.60	-3.56	55.80	74.00	-18.20	PK	Horizontal
4804.58	49.91	44.20	9.04	31.60	-3.56	46.35	54.00	-7.65	AV	Horizontal
5359.80	49.22	44.20	9.86	32.00	-2.34	46.88	74.00	-27.12	PK	Vertical
5359.80	40.05	44.20	9.86	32.00	-2.34	37.71	54.00	-16.29	AV	Vertical
5359.82	48.32	44.20	9.86	32.00	-2.34	45.98	74.00	-28.02	PK	Horizontal
5359.82	38.67	44.20	9.86	32.00	-2.34	36.33	54.00	-17.67	AV	Horizontal
7205.88	53.56	43.50	11.40	35.50	3.40	56.96	74.00	-17.04	PK	Vertical
7205.88	43.74	43.50	11.40	35.50	3.40	47.14	54.00	-6.86	AV	Vertical
7205.81	54.43	43.50	11.40	35.50	3.40	57.83	74.00	-16.17	PK	Horizontal
7205.81	44.45	43.50	11.40	35.50	3.40	47.85	54.00	-6.15	AV	Horizontal
Middle Channel (GFSK/2440.8 MHz)										
3264.67	60.93	44.70	6.70	28.20	-9.80	51.13	74.00	-22.87	PK	Vertical
3264.67	50.40	44.70	6.70	28.20	-9.80	40.60	54.00	-13.40	AV	Vertical
3264.80	60.96	44.70	6.70	28.20	-9.80	51.16	74.00	-22.84	PK	Horizontal
3264.80	49.99	44.70	6.70	28.20	-9.80	40.19	54.00	-13.81	AV	Horizontal
4882.49	58.52	44.20	9.04	31.60	-3.56	54.96	74.00	-19.04	PK	Vertical
4882.49	50.29	44.20	9.04	31.60	-3.56	46.73	54.00	-7.27	AV	Vertical
4882.36	59.56	44.20	9.04	31.60	-3.56	56.00	74.00	-18.00	PK	Horizontal
4882.36	50.02	44.20	9.04	31.60	-3.56	46.46	54.00	-7.54	AV	Horizontal
5359.87	49.43	44.20	9.86	32.00	-2.34	47.09	74.00	-26.91	PK	Vertical
5359.87	39.00	44.20	9.86	32.00	-2.34	36.66	54.00	-17.34	AV	Vertical
5359.79	47.79	44.20	9.86	32.00	-2.34	45.45	74.00	-28.55	PK	Horizontal
5359.79	38.96	44.20	9.86	32.00	-2.34	36.62	54.00	-17.38	AV	Horizontal
7323.88	54.34	43.50	11.40	35.50	3.40	57.74	74.00	-16.26	PK	Vertical
7323.88	43.87	43.50	11.40	35.50	3.40	47.27	54.00	-6.73	AV	Vertical
7323.88	54.00	43.50	11.40	35.50	3.40	57.40	74.00	-16.60	PK	Horizontal
7323.88	43.99	43.50	11.40	35.50	3.40	47.39	54.00	-6.61	AV	Horizontal

High Channel (GFSK/2481.6 MHz)										
3264.75	61.35	44.70	6.70	28.20	-9.80	51.55	74.00	-22.45	PK	Vertical
3264.75	50.05	44.70	6.70	28.20	-9.80	40.25	54.00	-13.75	AV	Vertical
3264.64	61.36	44.70	6.70	28.20	-9.80	51.56	74.00	-22.44	PK	Horizontal
3264.64	50.69	44.70	6.70	28.20	-9.80	40.89	54.00	-13.11	AV	Horizontal
4960.33	59.01	44.20	9.04	31.60	-3.56	55.45	74.00	-18.55	PK	Vertical
4960.33	49.78	44.20	9.04	31.60	-3.56	46.22	54.00	-7.78	AV	Vertical
4960.42	59.43	44.20	9.04	31.60	-3.56	55.87	74.00	-18.13	PK	Horizontal
4960.42	49.21	44.20	9.04	31.60	-3.56	45.65	54.00	-8.35	AV	Horizontal
5359.60	48.71	44.20	9.86	32.00	-2.34	46.37	74.00	-27.63	PK	Vertical
5359.60	39.35	44.20	9.86	32.00	-2.34	37.01	54.00	-16.99	AV	Vertical
5359.70	47.11	44.20	9.86	32.00	-2.34	44.77	74.00	-29.23	PK	Horizontal
5359.70	38.28	44.20	9.86	32.00	-2.34	35.94	54.00	-18.06	AV	Horizontal
7439.70	54.18	43.50	11.40	35.50	3.40	57.58	74.00	-16.42	PK	Vertical
7439.70	44.34	43.50	11.40	35.50	3.40	47.74	54.00	-6.26	AV	Vertical
7439.92	53.63	43.50	11.40	35.50	3.40	57.03	74.00	-16.97	PK	Horizontal
7439.92	44.21	43.50	11.40	35.50	3.40	47.61	54.00	-6.39	AV	Horizontal

Note:

1) Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Emission Level = Reading + Factor

2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

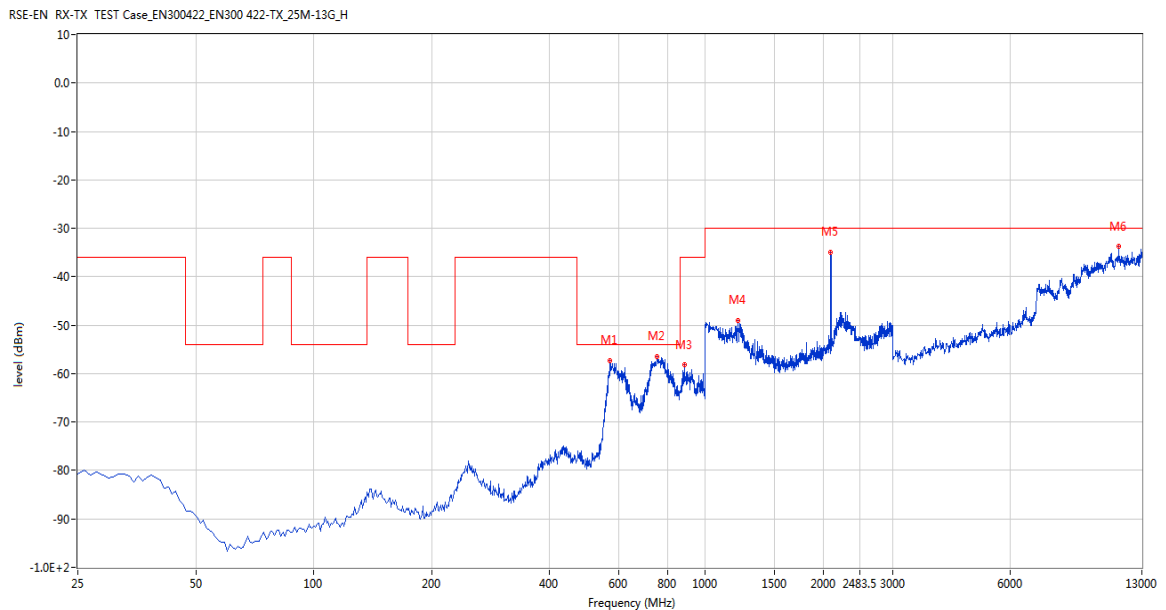
Co-location with Wireless Microphone

Temperature:	23.4°C	Relative Humidity:	60%
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	Worst case mode of 2.4GHz +Wireless Mircophone		

Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
571.000	-57.36	5.96	-54.0	3.36	267.50	Horizontal	Vertical	Pass
753.325	-56.40	7.20	-54.0	2.40	291.70	Horizontal	Vertical	Pass
884.950	-58.16	8.27	-36.0	22.16	308.50	Horizontal	Vertical	Pass
1212.000	-48.94	12.64	-30.0	18.94	325.00	Horizontal	Vertical	Pass
2090.000	-34.97	15.00	-30.0	4.97	328.30	Horizontal	Vertical	Pass
11360.000	-33.71	20.03	-30.0	3.71	69.60	Horizontal	Vertical	Pass

Remark:

3. Margin = Result (Result =Reading + Factor)–Limit
4. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain



Note:

- 1) Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Emission Level = Reading + Factor
- 2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

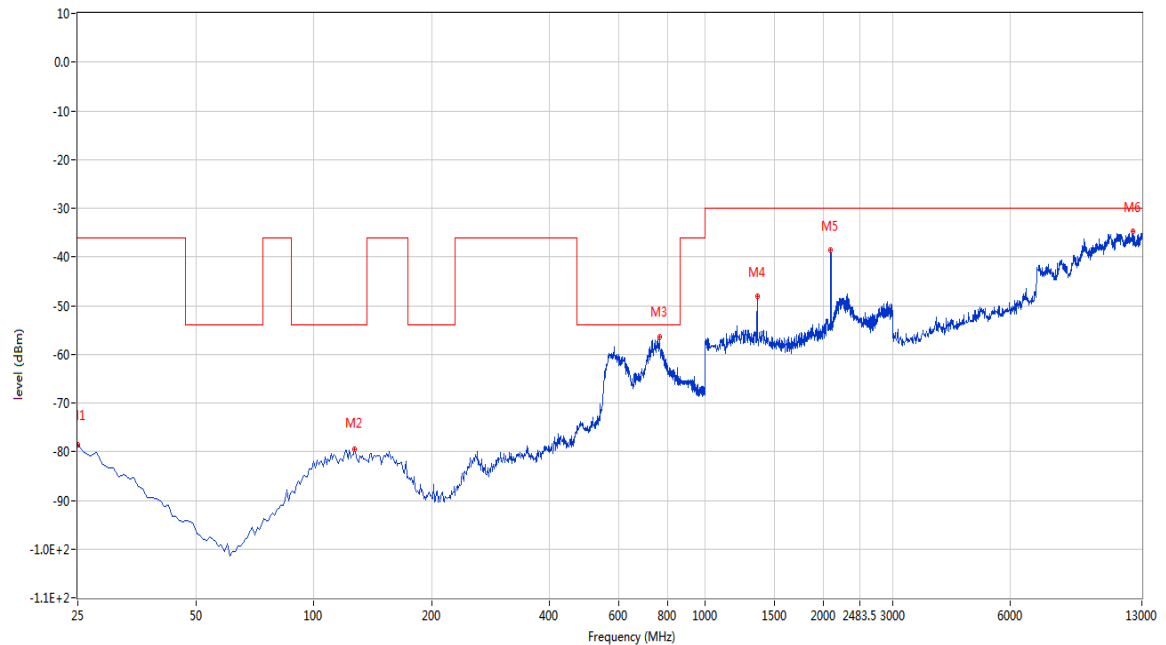
Temperature:	23.4°C	Relative Humidity:	60%
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	Worst case mode of 2.4GHz +Wireless Microphone		

Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
25.000	-78.53	-0.46	-36.0	42.53	354.60	Vertical	Vertical	Pass
127.375	-79.40	-1.62	-54.0	25.40	169.30	Vertical	Vertical	Pass
765.025	-56.43	7.05	-54.0	2.43	145.80	Vertical	Vertical	Pass
1356.000	-48.14	12.37	-30.0	18.14	291.10	Vertical	Vertical	Pass
2090.000	-38.67	15.00	-30.0	8.67	242.80	Vertical	Vertical	Pass
12310.000	-34.84	19.73	-30.0	4.84	163.40	Vertical	Vertical	Pass

Remark:

1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain

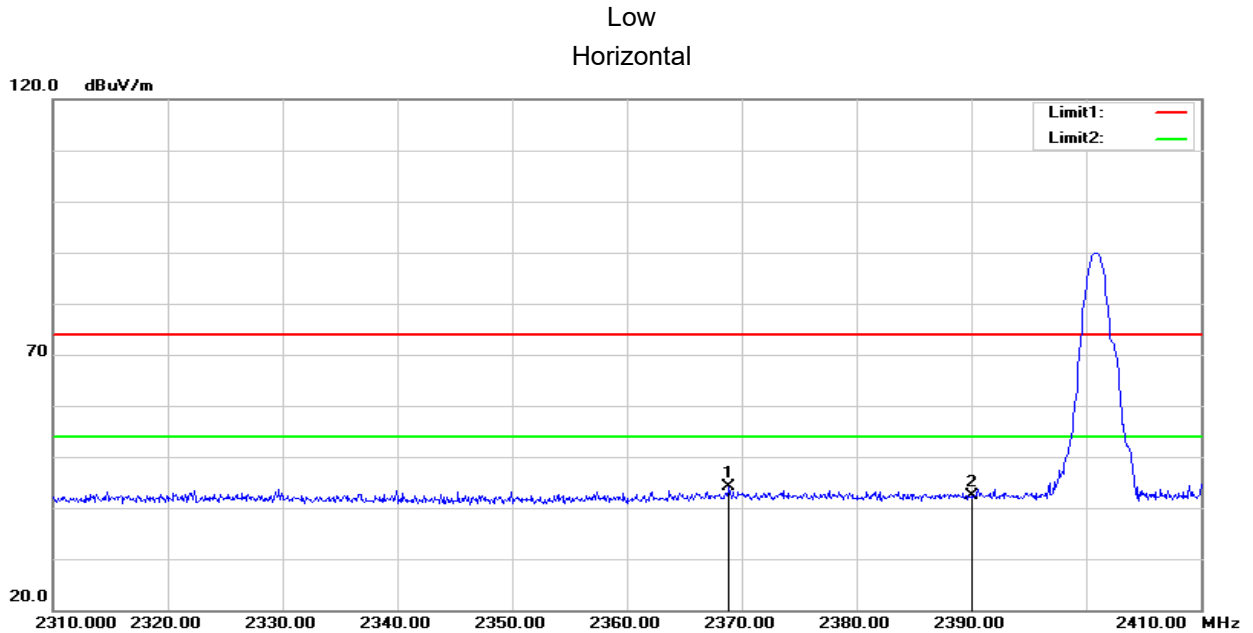
RSE-EN RX-TX TEST Case_EN300422_EN300 422-TX_25M-13G_V



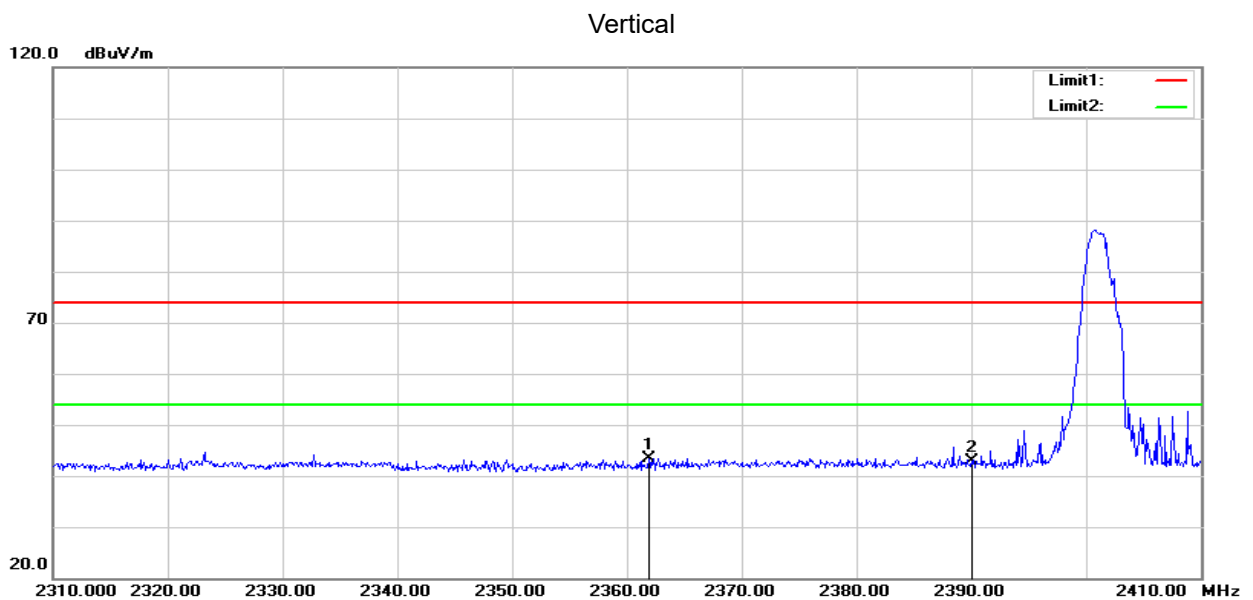
Note:

- 1) Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Emission Level = Reading + Factor
- 2) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

Appendix A.9: Test Results of Radiated Emissions in Restricted Bands

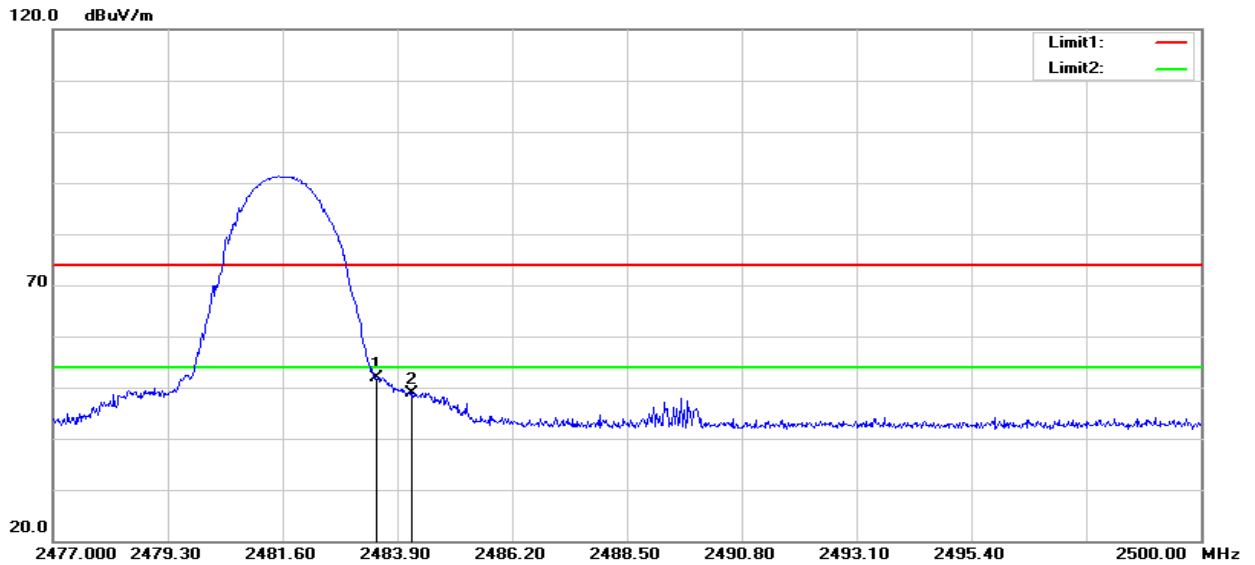


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2368.900	40.08	4.02	44.10	54.00	-9.90	peak
2	2390.000	38.09	4.34	42.43	54.00	-11.57	peak



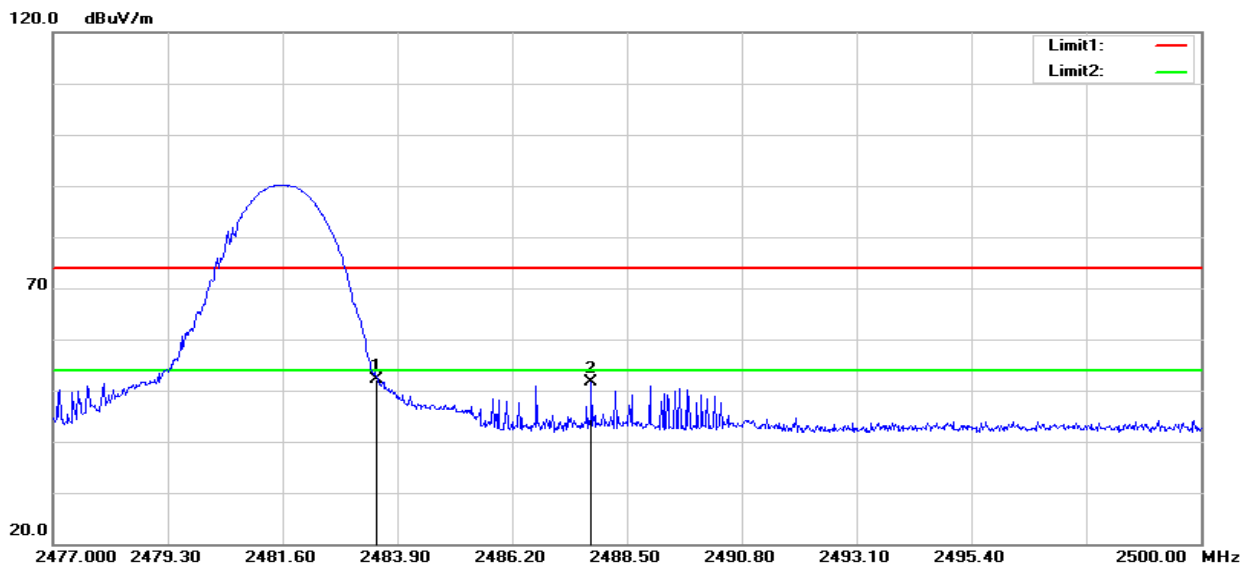
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2361.900	39.53	3.92	43.45	54.00	-10.55	peak
2	2390.000	38.56	4.34	42.90	54.00	-11.10	peak

High
Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	47.20	4.60	51.80	54.00	-2.20	peak
2	2484.199	44.37	4.61	48.98	54.00	-5.02	peak

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	47.62	4.60	52.22	54.00	-1.78	peak
2	2487.787	46.94	4.62	51.56	54.00	-2.44	peak

Note: All modes have been measurement, only worst mode was reported.

Appendix A.10: Test Results of Conducted Emission on AC Mains

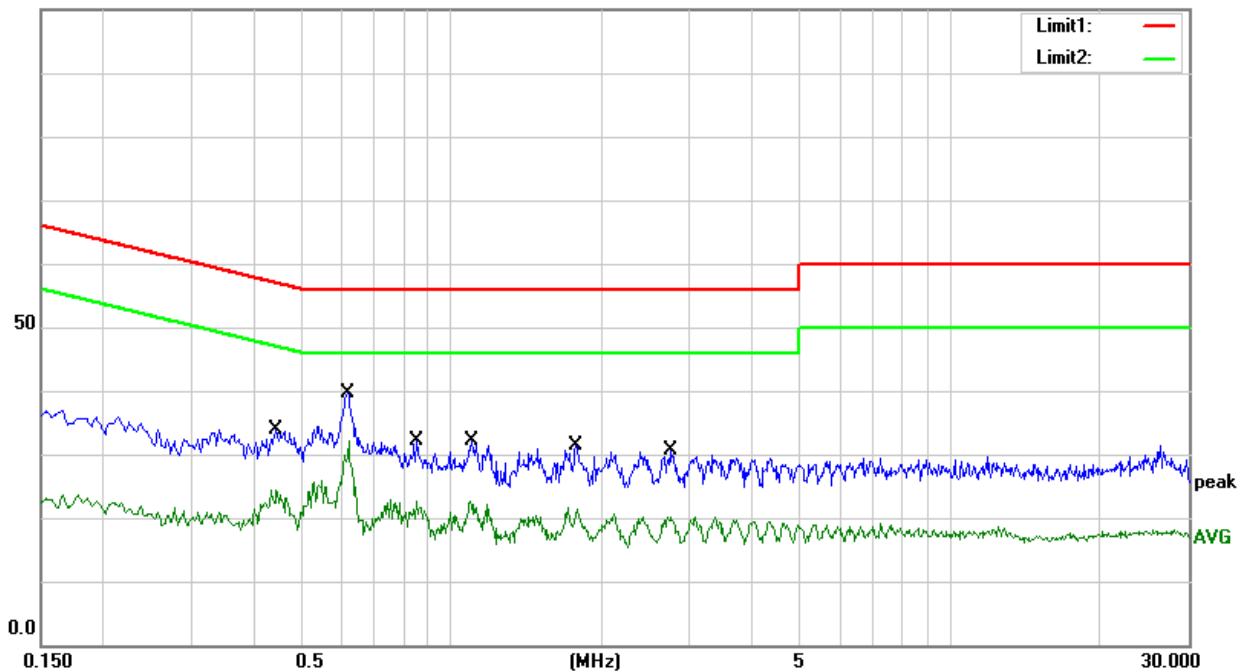
Temperature:	25.1°C	Relative Humidity:	59%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode C		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.4460	13.87	20.01	33.88	56.95	-23.07	QP
2	0.4460	4.49	20.01	24.50	46.95	-22.45	AVG
3	0.6180	19.76	19.90	39.66	56.00	-16.34	QP
4	0.6180	12.20	19.90	32.10	46.00	-13.90	AVG
5	0.8500	12.43	19.80	32.23	56.00	-23.77	QP
6	0.8500	3.15	19.80	22.95	46.00	-23.05	AVG
7	1.0980	12.28	19.77	32.05	56.00	-23.95	QP
8	1.0980	2.90	19.77	22.67	46.00	-23.33	AVG
9	1.7780	11.65	19.78	31.43	56.00	-24.57	QP
10	1.7780	1.81	19.78	21.59	46.00	-24.41	AVG
11	2.7500	10.86	19.82	30.68	56.00	-25.32	QP
12	2.7500	0.39	19.82	20.21	46.00	-25.79	AVG

Remark:

1. All readings are Quasi-Peak and Average values
2. Margin = Result (Result = Reading + Factor) - Limit
3. Factor = LISN factor + Cable loss + Limiter (10dB)

100.0 dBuV



Temperature:	25.1°C	Relative Humidity:	59%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode C		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.5260	13.46	19.94	33.40	56.00	-22.60	QP
2	0.5260	7.28	19.94	27.22	46.00	-18.78	AVG
3	0.6180	19.91	19.89	39.80	56.00	-16.20	QP
4	0.6180	13.96	19.89	33.85	46.00	-12.15	AVG
5	0.9900	11.20	19.77	30.97	56.00	-25.03	QP
6	0.9900	4.28	19.77	24.05	46.00	-21.95	AVG
7	2.1100	10.50	19.88	30.38	56.00	-25.62	QP
8	2.1100	1.80	19.88	21.68	46.00	-24.32	AVG
9	3.0980	9.64	19.93	29.57	56.00	-26.43	QP
10	3.0980	0.63	19.93	20.56	46.00	-25.44	AVG
11	4.3620	9.53	19.93	29.46	56.00	-26.54	QP
12	4.3620	0.02	19.93	19.95	46.00	-26.05	AVG

Remark:

1. All readings are Quasi-Peak and Average values
2. Margin = Result (Result = Reading + Factor) - Limit
3. Factor=LISN factor+Cable loss+Limiter (10dB)

100.0 dBuV

