

DARAD INNOVATION CORPORATION

TEST REPORT

Model:

60.Y2XHM.001, 60.Y3BHM.001

REPORT NUMBER

230100087THC-001

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Radio Spectrum TEST REPORT

Applicant:	DARAD INNOVATION CORPORATION No. 167, Shanying Rd., Guishan Dist., Taoyuan City 33341, Taiwan
Product:	Stem Integrated HMI
Model No.:	60.Y2XHM.001, 60.Y3BHM.001
FCC ID:	2BAG5EY2XHH001
Test Method/ Standard:	47 CFR FCC Part 15.247 & ANSI C63.10 2013 KDB 558074 D01 v05r02
Test By:	Intertek Testing Services Taiwan Ltd., Hsinchu Laboratory No. 11, Lane 275, Ko-Nan 1 Street, Chia-Tung Li, Shiang-Shan District, Hsinchu City, Taiwan



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TEST REPORT**Revision History**

Report No.	Issue Date	Revision Summary
230100087THC-001	May 12, 2023	Original report

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Summary of Test Data

Test Requirement	Applicable Rule (Section 15.247)	Result
Minimum 6 dB Bandwidth	15.247(a)(2)	Pass
Maximum Peak Conducted Output Power	15.247(b)(3)	Pass
Power Spectral Density	15.247(e)	Pass
Emissions In Non-Restricted Frequency Bands	15.247(d)	Pass
Emissions In Restricted Frequency Bands (Radiated emission measurements)	15.247(d), 15.205, 15.209	Pass
Emission On The Band Edge	15.247(d), 15.205	Pass
AC Power Line Conducted Emission	15.207	N/A
Antenna Requirement	15.203	Pass

Note: Please note that the test results with statement of conformity, the decision rules which are based on: Safety Testing: the specification, standard or IEC Guide 115.

Other Testing: the specification, standard and not taking into account the measurement uncertainty.

1. General Information

1.1 Identification of the EUT

Product:	Stem Integrated HMI
Model No.:	60.Y2XHM.001
Operating Frequency:	2402 MHz ~ 2480 MHz
Channel Number:	40 channels
Frequency of Each Channel:	2402+2 k, k=0 ~ 39
Rated Power:	DC 5V
Power Cord:	N/A
Sample receiving date:	2023/01/09
Sample condition:	Workable
Test Date(s):	2023/01/13 ~ 2023/02/23

1.2 Additional information about the EUT

The customer confirmed the model listed as below was series model to model 60.Y2XHM.001 (EUT), the difference between main model and series model are listed as below.

Model Number	Different
60.Y2XHM.001	ASSY HMI OF EBIKE LED DISPLAY SEM TYPE FOR LX2;BKACK; YTFT09
60.Y3BHM.001	ASSY HMI OF EBIKE LED DISPLAY SEM TYPE FOR LS2;BKACK; YTRT16

1.3 Antenna description

Antenna Gain : -0.4 dBi
 Antenna Type : Chip Antenna
 Connector Type : Fixed

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1.4 Operation mode

Connected to Notebook via USB Cable , executing 「 BTTS 」 to select different frequency and modulation.

Mode	Channel	Frequency (MHz)	Signal on time(ms)	Signal on & off time(ms)	Duty cycle	Duty Cycle factor
BLE 1M	19	2440	100	100	1.000	0.000

The signal is maximized through rotation and placement in the two orthogonal axes.



X axis



Y axis

After verifying three axes, we found the maximum electromagnetic field occurred at Y axis. The final test data was executed under this configuration.

1.5 Peripherals equipment

Peripherals	Brand	Model No.	Serial No.	Data cable
Notebook PC	HP	HP Probook 440 G3	5CD8021S9H	USB cable_0. 5m
DC Power Supply	Twintex	TP-1603C	N/A	N/A
Fixture	N/A	N/A	N/A	N/A

2. Minimum 6 dB Bandwidth

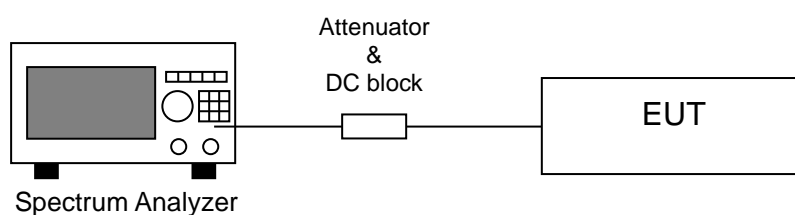
2.1 Instrument Setting

Spectrum Parameter	Setting
Detector	Peak
RBW	100kHz
VBW	$\geq 3 \times \text{RBW}$
Sweep	Auto couple
Trace	Allow the trace to stabilize.
Span	Between two times and five times the occupied bandwidth
Attenuation	Auto

2.2 Test Procedure

Step 1	The transmitter output was connected to the spectrum analyzer.
Step 2	Test was performed accordance with ANSI C63.10.
Step 3	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

2.3 Test Diagram



2.4 Limit

The minimum 6 dB bandwidth shall be at least 500 kHz.

2.5 Test Results

Temperature (°C) :	13
Relative Humidity (%) :	51

Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
BLE 1M	0	2402	0.727	>0.5	Pass
	19	2440	0.724	>0.5	Pass
	39	2480	0.721	>0.5	Pass

Chain0 : 6dB Bandwidth @ LE 1M Mode Ch 0



Chain0 : 6dB Bandwidth @ LE 1M Mode Ch 19



Chain0 : 6dB Bandwidth @ LE 1M Mode Ch 39



3. Maximum Peak Conducted Output Power

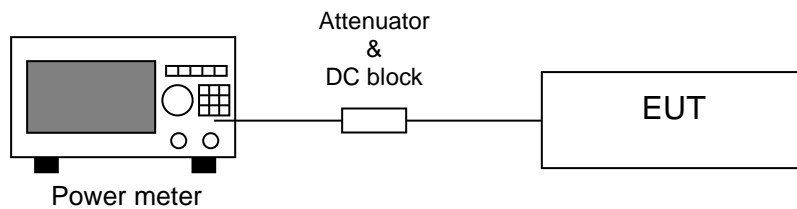
3.1 Instrument Setting

Power Meter Parameter	Setting
Bandwidth	65MHz bandwidth is greater than the EUT emission bandwidth
Detector	Peak & Average

3.2 Test Procedure

The preferred methodology is to use integrated average power measurements, as described in 11.9.2 and 11.13.3 of ANSI C63.10. The peak integrated band power methods of 11.9.1.2 and 11.13.3.2 of ANSI C63.10 are not applicable for FCC compliance testing purposes.

3.3 Test Diagram



3.4 Limit

For systems using digital modulation in the 2400-2483.5 MHz: 1 Watt (30dBm)

3.5 Test Results

Temperature (°C) :	13
Relative Humidity (%) :	51
Test date :	2023/01/06

Mode	Channel	Frequency (MHz)	Output Power [AV] (dBm)	Total Power [AV] (mW)	Maximum Power [PK] (dBm)	Maximum Power [PK] (mW)	Limit (dBm)	Margin (dB)
BLE 1M	0	2402	-0.60	0.87	0.90	1.23	30	-29.10
	19	2440	-0.90	0.81	0.70	1.17	30	-29.30
	39	2480	-1.30	0.74	0.50	1.12	30	-29.50

4. Power Spectral Density

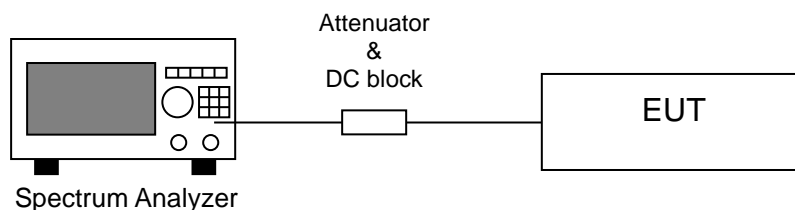
4.1 Instrument Setting

Spectrum Function	Setting
Detector	Peak
RBW	≥ 3 kHz
VBW	$\geq 3 \times$ RBW
Sweep	Auto couple
Trace	Max hold
Span	1.5 times x 6dB bandwidth
Attenuation	Auto

4.2 Test Procedure

Step 1	Test procedure refer to subclause 11.10 of ANSI C63.10.
Step 2	Using the maximum conducted output power in the fundamental emission demonstrates compliance. The EUT must be configured to transmit continuously at full power over the measurement duration.
Step 3	Use the peak marker function to determine the maximum amplitude level within the RBW.

4.3 Test Diagram



4.4 Limit

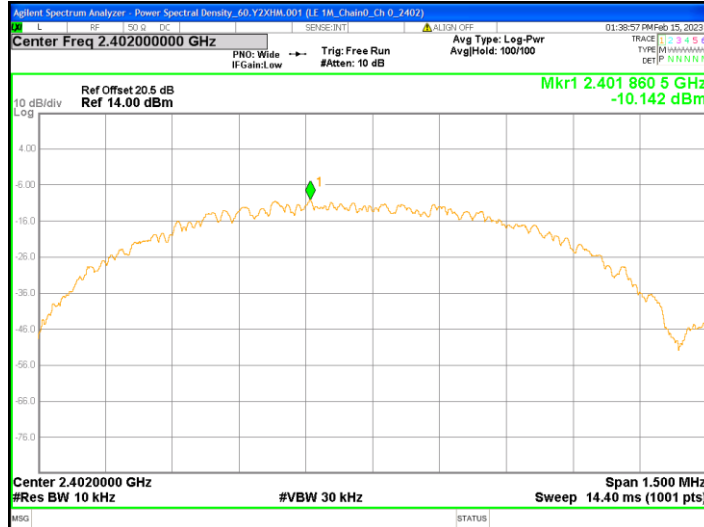
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission

4.5 Test Results

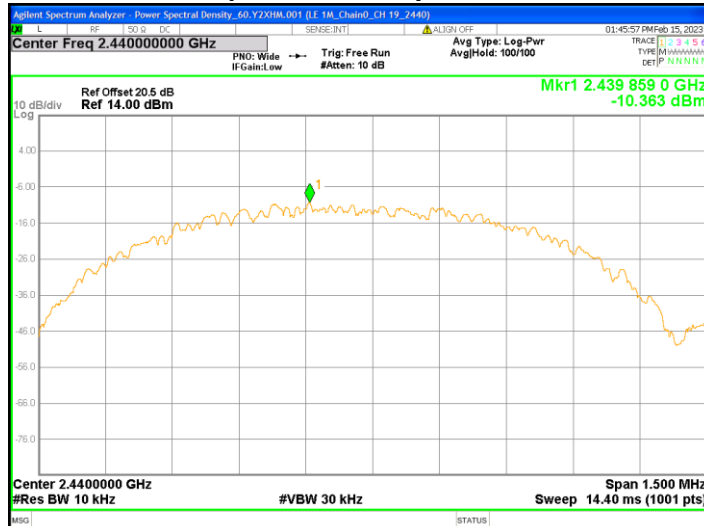
Temperature (°C) :	13
Relative Humidity (%) :	51

Mode	Channel	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Margin (dB)
BLE 1M	0	2402	-10.142	8	-18.142
	19	2440	-10.363	8	-18.363
	39	2480	-10.433	8	-18.433

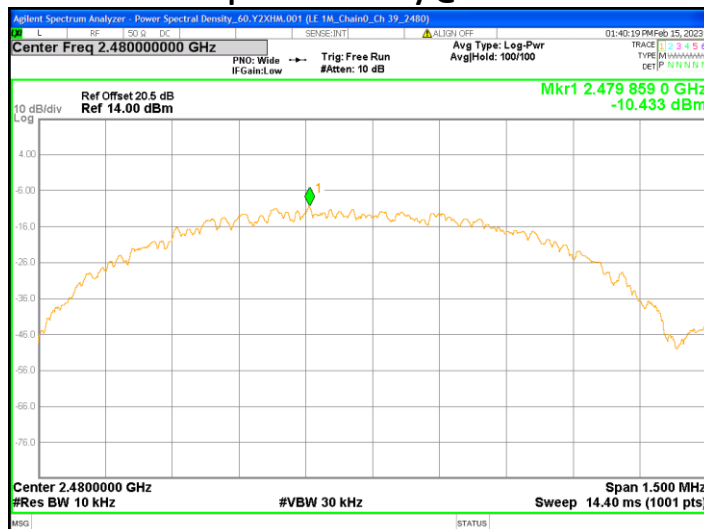
Chain0 : Power Spectral Density @ LE 1M Mode Ch 0



Chain0 : Power Spectral Density @ LE 1M Mode Ch 19



Chain0 : Power Spectral Density @ LE 1M Mode Ch 39



5. Emissions in Non-Restricted Frequency Bands

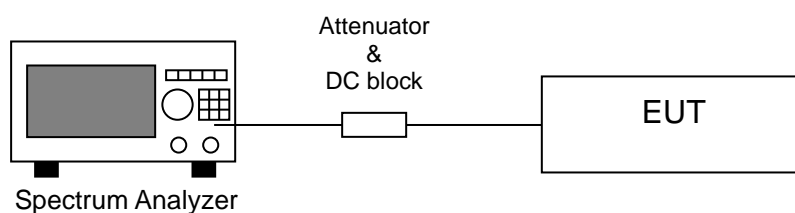
5.1 Instruments Setting

Spectrum Function	Setting (Reference Level)	Setting (Emission Level)
Detector	Peak	Peak
RBW	≥ 100 kHz	≥ 100 kHz
VBW	$\geq 3 \times$ RBW	$\geq 3 \times$ RBW
Sweep	Auto couple	Auto couple
Trace	Max hold	Max hold
Span	≥ 1.5 time 6dB bandwidth	
Attenuation	Auto	Auto

5.2 Test Procedure

- Step 1 The procedure was used in antenna-port conducted and connected to the spectrum analyzer.
- Step 2 Set instrument center frequency to center frequency.
- Step 3 Use the parameter configured in subclause 11.11 of ANSI C63.10 to measure.
- Step 4 Use the peak marker function to determine the maximum amplitude level.

5.3 Test Diagram



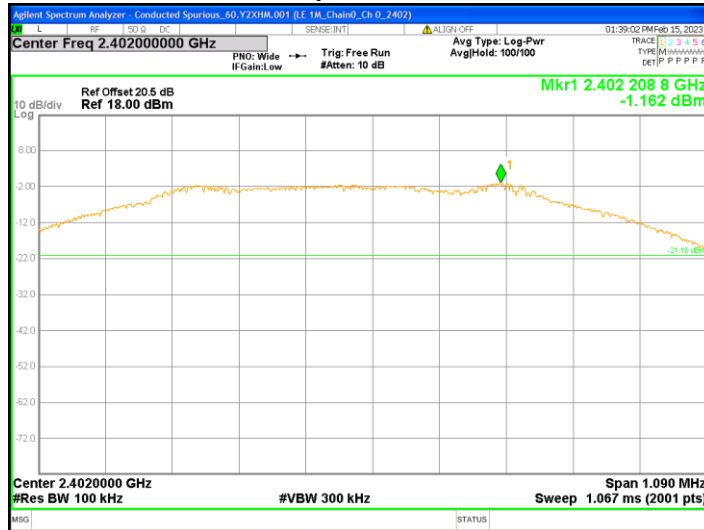
5.4 Limit

The peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz

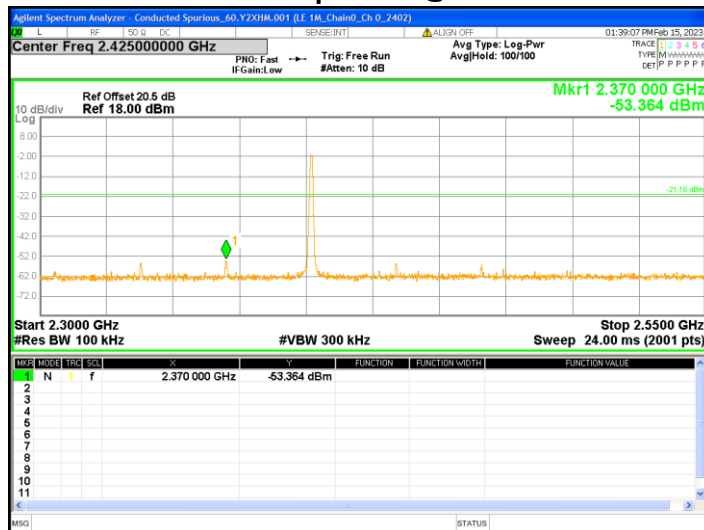
5.5 Test Results

Temperature (°C) :	13
Relative Humidity (%) :	51

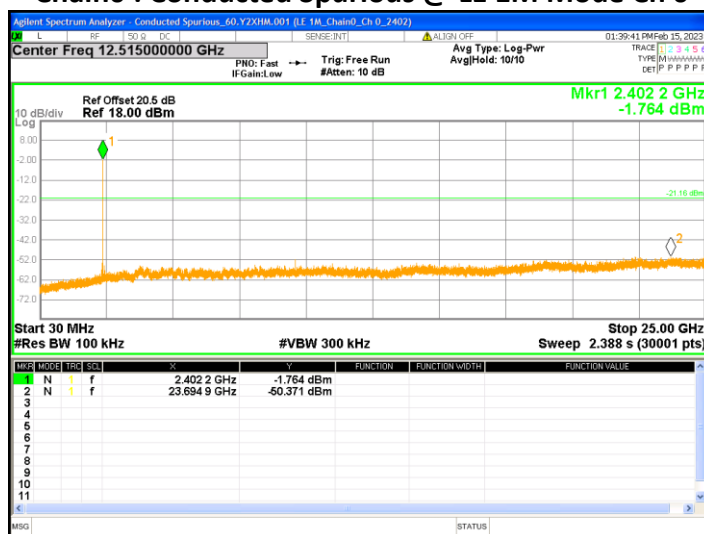
Chain0 : Conducted Spurious @ LE 1M Mode Ch 0



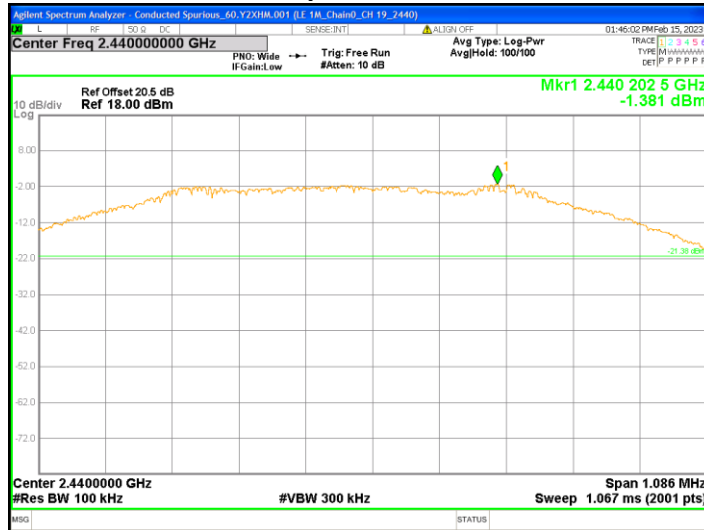
Chain0 : Conducted Spurious @ LE 1M Mode Ch 0



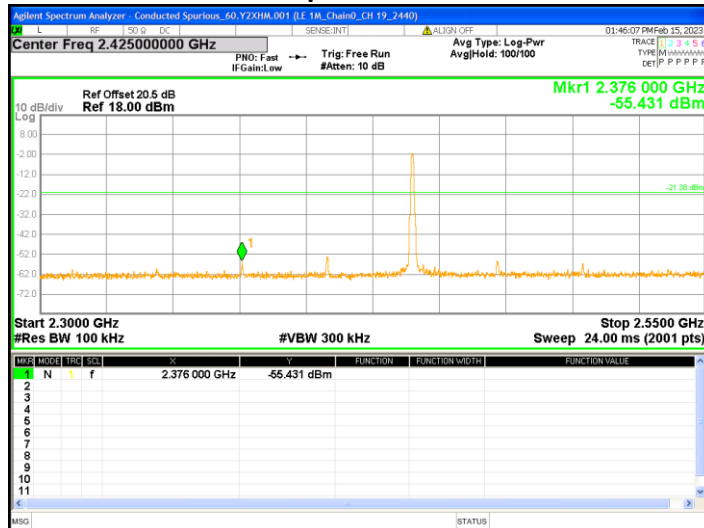
Chain0 : Conducted Spurious @ LE 1M Mode Ch 0



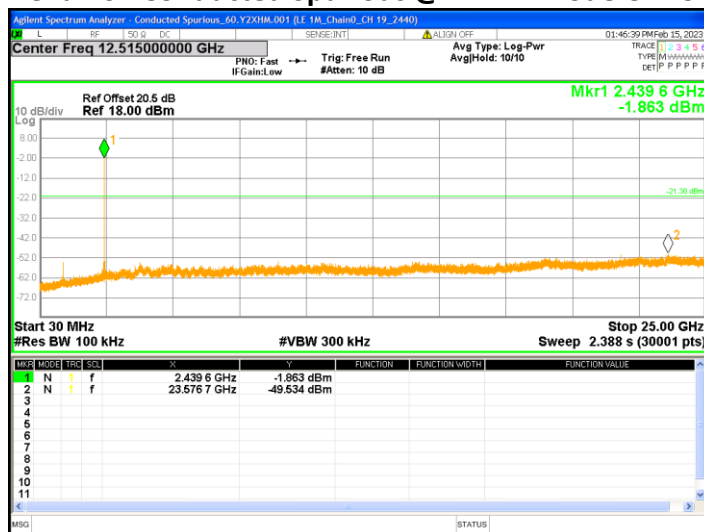
Chain0 : Conducted Spurious @ LE 1M Mode Ch 19



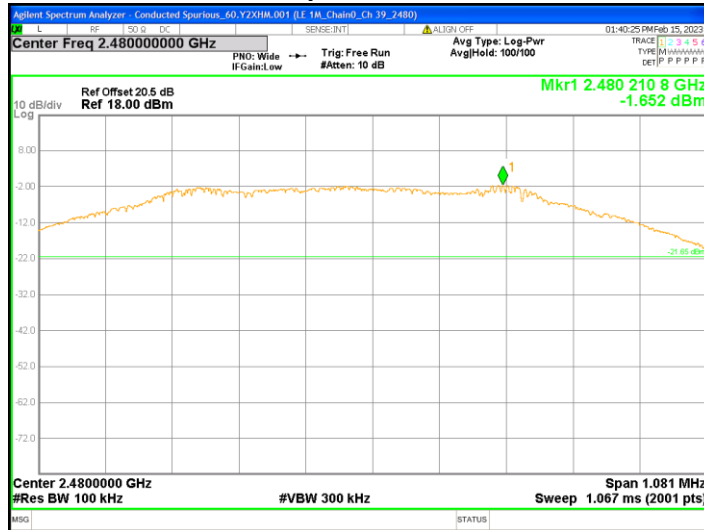
Chain0 : Conducted Spurious @ LE 1M Mode Ch 19



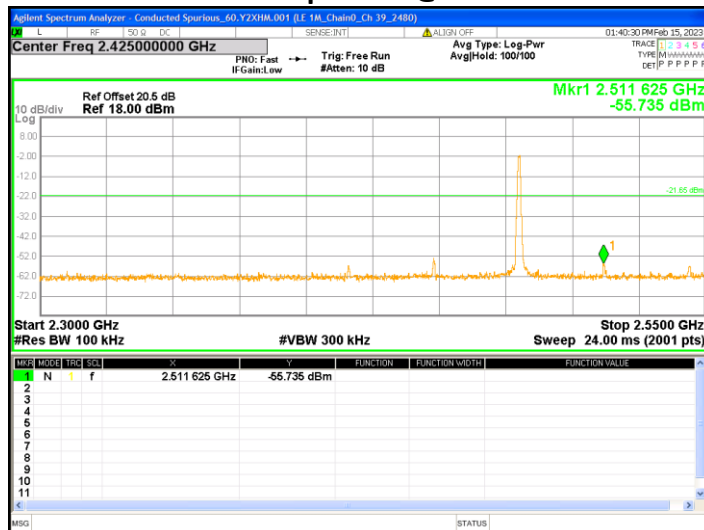
Chain0 : Conducted Spurious @ LE 1M Mode Ch 19



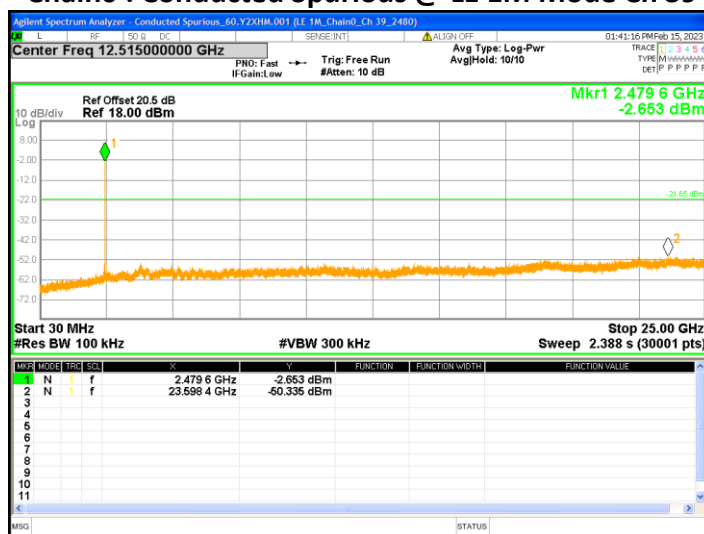
Chain0 : Conducted Spurious @ LE 1M Mode Ch 39



Chain0 : Conducted Spurious @ LE 1M Mode Ch 39



Chain0 : Conducted Spurious @ LE 1M Mode Ch 39



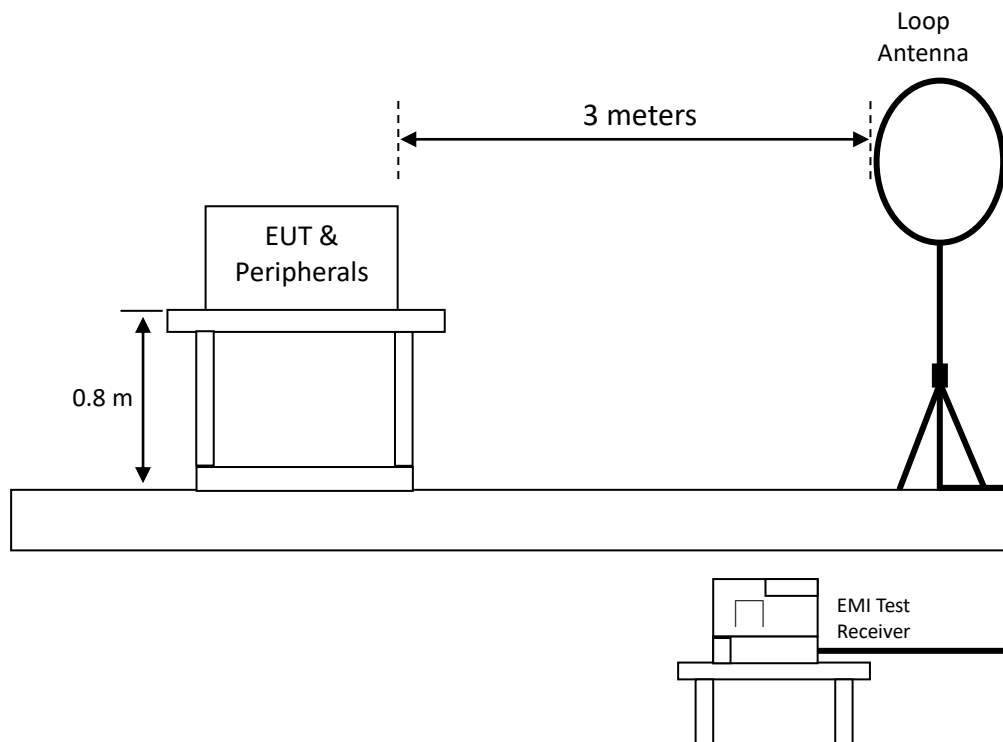
6. Emissions in Restricted Frequency Bands (Radiated emission measurements)

6.1 Instrument Setting

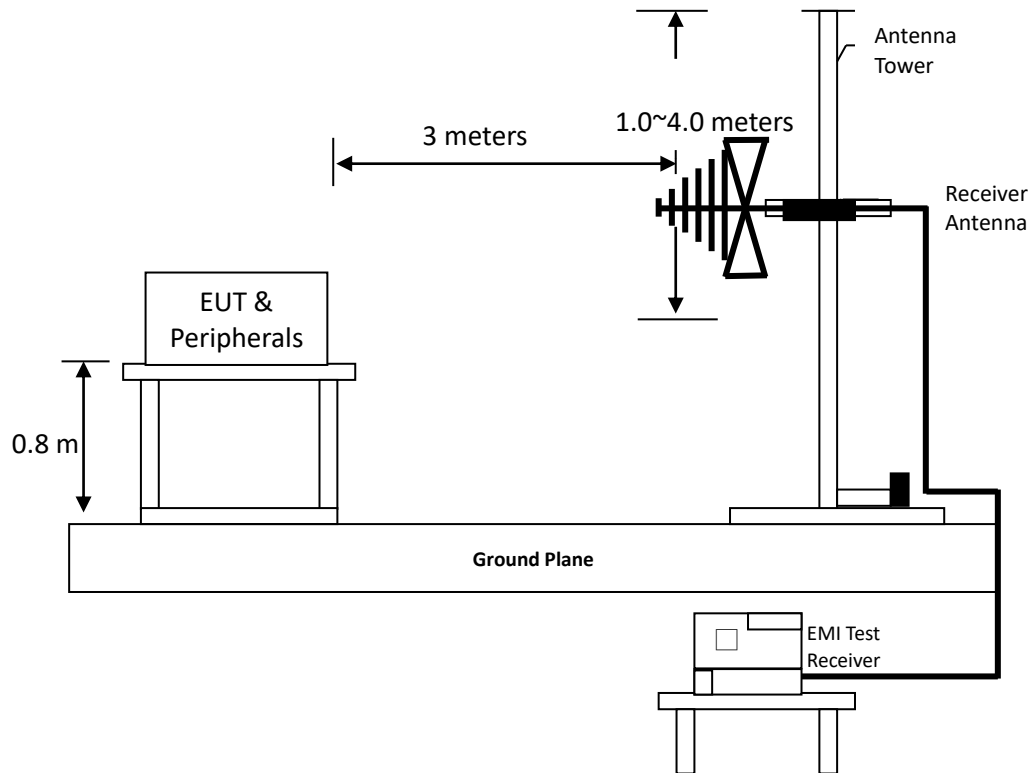
Receiver Function	Setting (Below 1GHz)	Setting (Above 1GHz)
Detector	QP	Peak and Average
RBW	9-150 kHz ; 200-300 Hz 0.15-30 MHz; 9-10 kHz 30-1000 MHz; 100-120 kHz	1MHz
VBW	$\geq 3 \times \text{RBW}$	3MHz & 1/T Minimum VBW
Sweep	Auto couple	Auto couple
Start Frequency	9 kHz	1GHz
Stop Frequency	1 GHz	Tenth harmonic
Attenuation	Auto	Auto

6.2 Test setup & procedure

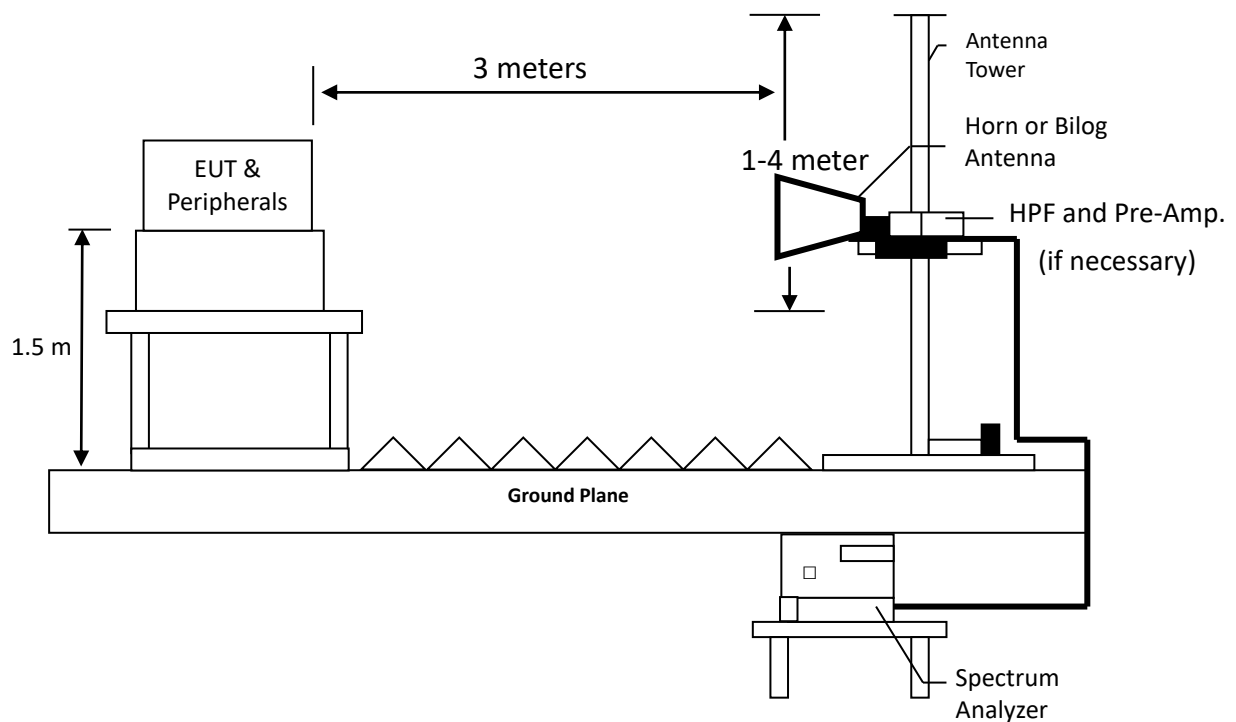
Radiated emission from 9kHz to 30MHz uses Loop Antenna:



Radiated emission below 1GHz using Bilog Antenna



Radiated emission above 1GHz using Horn Antenna



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Radiated emissions were investigated cover the frequency range from 30MHz to 1000MHz using a receiver RBW of 120kHz record QP reading, and the frequency over 1GHz using a spectrum analyzer RBW of 1MHz and 10Hz VBW record Average reading. (15.209 paragraph), the Peak reading (1 MHz RBW/ 3 MHz VBW) recorded also on the report.

The EUT for testing is arranged on a turntable. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meters and down to 1 meter.

The measurement for radiated emission will be done at the distance of three meters unless the signal level is too low to measure at that distance. In the case of the reading under noise floor, a pre-amplifier is used and/or the test is conducted at a closer distance. And then all readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance.

6.3 Limit

Frequency(MHz)	Field Strength(uV/m)	Measurement distance(m)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark:

1. In the above table, the tighter limit applies at the band edges.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system

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6.4 Test Result

6.4.1 Measurement results: frequencies 9kHz to 30MHz

Temperature (°C) :	19
Relative Humidity (%) :	56
Test date :	2023/02/23

The test was performed on EUT under continuously transmitting mode. The worst case occurred at BLE 1M, Ch_0.

Antenna Polarity	Frequency (MHz)	Spectrum Analyzer Detector	Correction Factor (dB/m)	Reading (dBμV)	Corrected Reading (dBμV/m)	Limit @ 3 m (dBμV/m)	Margin (dB)
Perpendicular	0.009	AV	18.11	56.77	74.88	128.52	-53.64
Perpendicular	0.489	AV	18.79	39.38	58.17	93.82	-35.65
Perpendicular	0.609	QP	18.86	33.90	52.76	71.91	-19.15
Perpendicular	0.999	QP	19.10	32.32	51.42	67.61	-16.19
Perpendicular	1.329	QP	19.10	27.80	46.90	65.13	-18.23
Perpendicular	1.898	QP	19.10	24.58	43.68	69.54	-25.86

Remark: Corr. Factor = Antenna Factor + Cable Loss

Antenna Polarity	Frequency (MHz)	Spectrum Analyzer Detector	Correction Factor (dB/m)	Reading (dBμV)	Corrected Reading (dBμV/m)	Limit @ 3 m (dBμV/m)	Margin (dB)
Parallel	0.489	AV	18.79	33.81	52.60	93.82	-41.22
Parallel	0.579	QP	18.85	30.77	49.62	72.35	-22.73
Parallel	0.999	QP	19.10	26.52	45.62	67.61	-21.99
Parallel	1.479	QP	19.10	22.33	41.43	64.20	-22.77
Parallel	1.808	QP	19.10	19.08	38.18	69.54	-31.36
Parallel	2.438	QP	19.10	17.73	36.83	69.54	-32.71

Remark: Corr. Factor = Antenna Factor + Cable Loss

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Antenna Polarity	Frequency (MHz)	Spectrum Analyzer Detector	Correction Factor (dB/m)	Reading (dBμV)	Corrected Reading (dBμV/m)	Limit @ 3 m (dBμV/m)	Margin (dB)
Ground-parallel	0.489	AV	18.79	27.40	46.19	93.82	-47.63
Ground-parallel	0.969	QP	19.08	20.75	39.83	67.88	-28.05
Ground-parallel	1.329	QP	19.10	19.02	38.12	65.13	-27.01
Ground-parallel	2.048	QP	19.10	14.93	34.03	69.54	-35.51
Ground-parallel	8.227	QP	20.52	11.68	32.20	69.54	-37.34
Ground-parallel	17.614	QP	21.42	10.98	32.40	69.54	-37.14

Remark: Corr. Factor = Antenna Factor + Cable Loss

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6.4.2 Measurement results: frequencies below 1 GHz

Temperature (°C) :	17
Relative Humidity (%) :	62
Test date :	2023/02/09

The test was performed on EUT under continuously transmitting mode. The worst case occurred at BLE 1M, Ch_0.

Antenna Polarity	Frequency (MHz)	Spectrum Analyzer Detector	Correction Factor (dB/m)	Reading (dBμV)	Corrected Reading (dBμV/m)	Limit @ 3 m (dBμV/m)	Margin (dB)
Horizontal	143.49	QP	22.11	6.83	28.94	43.50	-14.56
Horizontal	165.80	QP	19.07	9.86	28.93	43.50	-14.57
Horizontal	191.99	QP	17.48	12.71	30.19	43.50	-13.31
Horizontal	304.51	QP	22.14	8.64	30.78	46.00	-15.22
Horizontal	335.55	QP	23.08	12.98	36.06	46.00	-9.94
Horizontal	366.59	QP	23.65	9.30	32.95	46.00	-13.05

Antenna Polarity	Frequency (MHz)	Spectrum Analyzer Detector	Correction Factor (dB/m)	Reading (dBμV)	Corrected Reading (dBμV/m)	Limit @ 3 m (dBμV/m)	Margin (dB)
Vertical	47.46	QP	19.59	11.28	30.87	40.00	-9.13
Vertical	99.84	QP	19.74	10.80	30.54	43.50	-12.96
Vertical	143.49	QP	22.11	10.10	32.21	43.50	-11.29
Vertical	527.61	QP	27.05	3.07	30.12	46.00	-15.88
Vertical	644.01	QP	29.56	2.59	32.15	46.00	-13.85
Vertical	728.40	QP	29.62	2.41	32.03	46.00	-13.97

Remark: Corr. Factor = Antenna Factor + Cable Loss

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6.4.3 Measurement results: frequency above 1GHz to 25GHz

Temperature (°C) :	17
Relative Humidity (%) :	62
Test date :	2023/02/09

Mode	Frequency (MHz)	Spectrum Analyzer Detector	Ant. Pol. (H/V)	Correction Factor (dB/m)	Reading (dBμV)	Corrected Reading (dBμV/m)	Limit @ 3 m (dBμV/m)	Margin (dB)
BLE 1M_Ch0	4804	PK	H	-7.45	52.79	45.34	74	-28.66
	4804	PK	V	-7.45	55.79	48.34	74	-25.66
BLE 1M_Ch19	4880	PK	H	-7.13	53.10	45.97	74	-28.03
	9760	PK	H	5.67	55.06	60.73	74	-13.27
	14640	PK	H	15.33	43.70	59.03	74	-14.97
	14640	AV	H	15.33	32.10	47.43	54	-6.57
	4880	PK	V	-7.13	57.30	50.17	74	-23.83
	9760	PK	V	5.67	57.11	62.78	74	-11.22
	14640	PK	V	15.33	45.10	60.43	74	-13.57
	14640	AV	V	15.33	33.70	49.03	54	-4.97
BLE 1M_Ch39	4960	PK	H	-7.07	54.61	47.54	74	-26.46
	9920	PK	H	5.81	53.09	58.90	74	-15.10
	14880	PK	H	13.76	46.00	59.76	74	-14.24
	14880	AV	H	13.76	34.70	48.46	54	-5.54
	4960	PK	V	-7.07	55.31	48.24	74	-25.76
	9920	PK	V	5.81	54.00	59.81	74	-14.19
	14880	PK	V	13.76	46.30	60.06	74	-13.94
	14880	AV	V	13.76	35.00	48.76	54	-5.24

Remark: Correction Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Pre_Amplifier Gain

7. Emission on Band Edge

7.1 Instrument Setting

Spectrum Function	Setting
Detector	Peak and Average
RBW	1MHz
VBW	3MHz & 1/T Minimum VBW
Sweep	Auto couple
Restrict bands	2310 MHz ~ 2390 MHz 2483.5 MHz ~ 2500 MHz
Attenuation	Auto

7.2 Test Procedure

The test procedure is the same as Emissions in Restricted Frequency Bands (Radiated emission measurements).

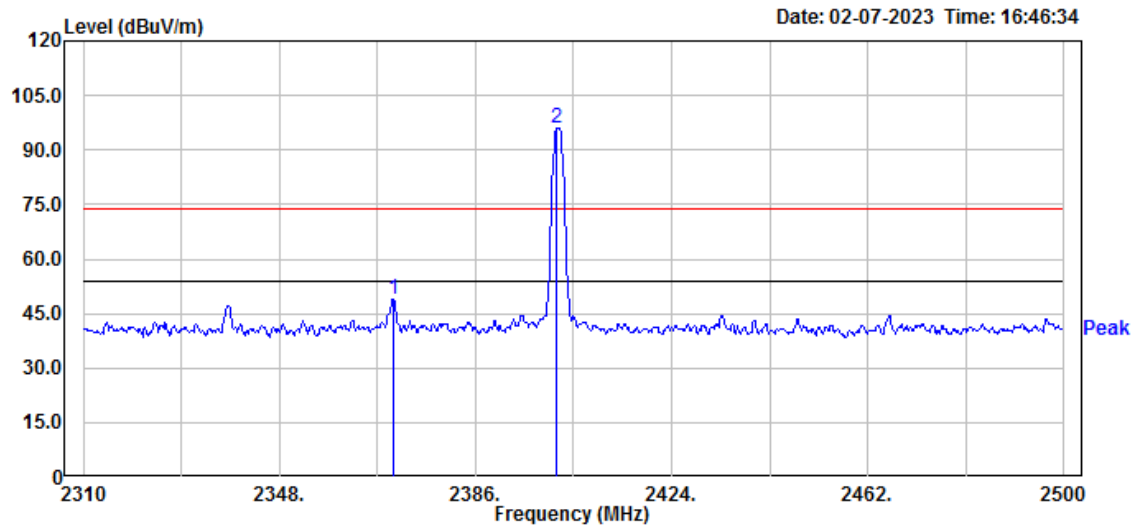
7.3 Test Results

Temperature (°C) :	18
Relative Humidity (%) :	60
Test date :	2023/02/07

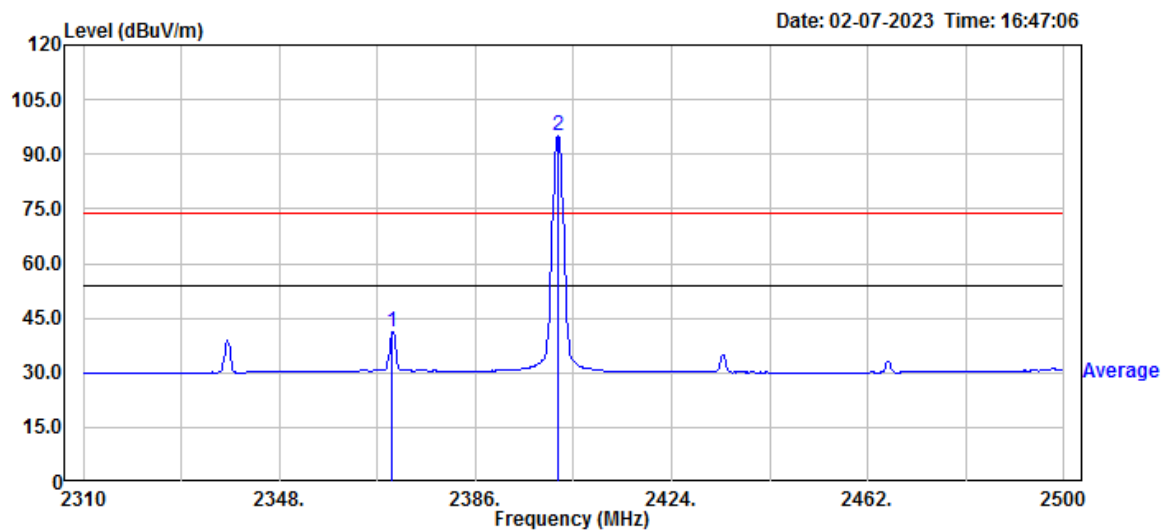
Mode	Frequency (MHz)	Spectrum Analyzer Detector	Ant. Pol. (H/V)	Correction Factor (dB/m)	Reading (dBμV)	Corrected Reading (dBμV/m)	Limit @ 3 m (dBμV/m)	Margin (dB)	Restricted band (MHz)
BLE 1M	2370.00	PK	V	34.13	14.67	48.80	74	-25.20	2310~2390
	2369.85	AV	V	34.13	7.30	41.43	54	-12.57	
	2495.82	PK	V	34.58	8.58	43.16	74	-30.84	2483.5~2500
	2483.66	AV	V	34.42	-2.32	32.10	54	-21.90	

Remark: Correction Factor = Antenna Factor + Cable Loss

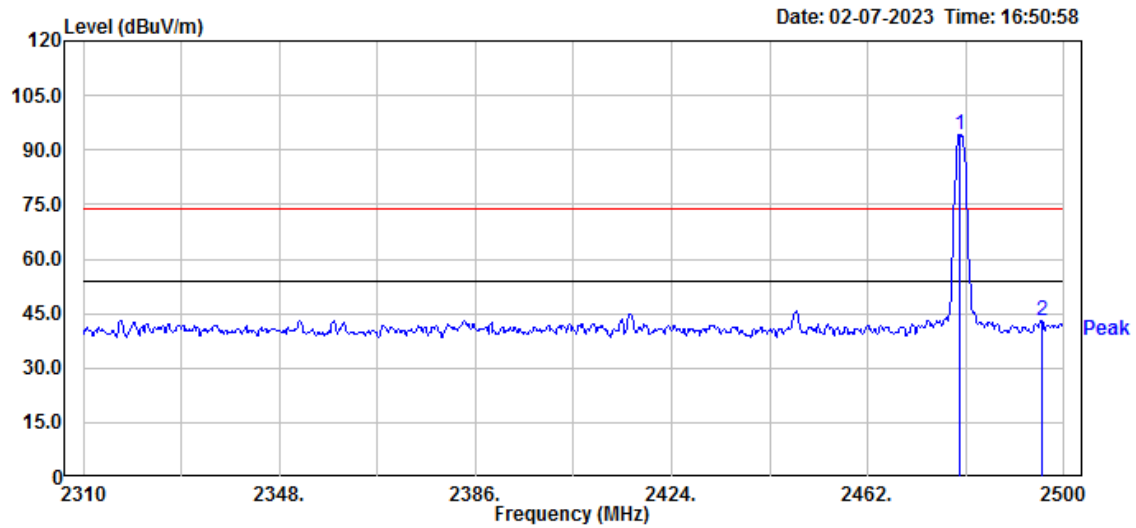
Chain0 : Restricted Band Bandedge @ BLE 1M Mode Ch 0 PK



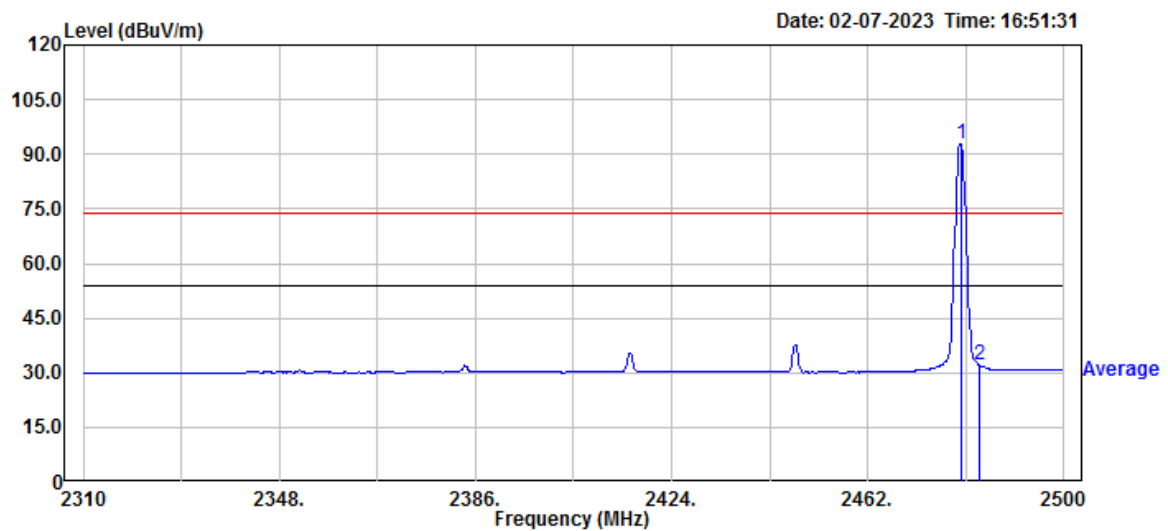
Chain0 : Restricted Band Bandedge @ BLE 1M Mode Ch 0 AV



Chain0 : Restricted Band Bandedge @ BLE 1M Mode Ch 39 PK



Chain0 : Restricted Band Bandedge @ BLE 1M Mode Ch 39 AV



8. AC Power Line Conducted Emission

Since the EUT is not connected to AC source, therefore, the test can be waived.

Appendix A: Test equipment list

Test Equipment	Brand	Model No.	Serial No.	Calibration Date	Next Calibration Date
Horn Antenna	EMCO	3115	9906-5822	2022/05/11	2023/05/10
Pre-amplifier	SGH	SGH118(45dB)	20220105-1	2022/01/07	2023/01/06
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-172	2023/01/13	2024/01/12
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170159	2021/04/08	2024/04/06
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-456	2023/01/06	2024/01/05
Power Meter	Anritsu	ML2495A	0844001	2023/02/04	2023/07/03
Power Sensor	Anritsu	MA2491A	031543	2023/02/04	2023/07/03
966-2(A) Cable	SUHNER	SUCOFLEX 104	295105/4	2022/03/04	2023/03/03
966-2(B) Cable	SUHNER	SUCOFLEX 104P	CB0005	2022/03/04	2023/03/03
Singal Analyzer	Agilent	N9030A	MY51380492	2022/08/09	2023/08/08
Hight Pass Filte	Wainwright	WHKX3.0/18G-1 2SS	N/A	2022/05/25	2023/05/24
Active Loop Antenna	SCHWARZBECK	FMZB1519	1519-067	2022/04/13	2023/04/12
EMI Test Receiver	R&S	ESR7	101822	2022/08/09	2023/08/08
20dB Attenuator	PE	PE7001-20	N/A	2022/05/25	2023/05/24
Pre-amplifier	SGH	SGH184	20201124-1	2022/11/11	2023/11/10
RF Cable	SUHNER	SUCOFLEX 104P	9403 / 4P	2022/11/25	2023/11/24

Note: No Calibration Required (NCR).

Appendix B: Measurement Uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of $k=2.0$.

Item	Uncertainty
Vertically polarized radiated disturbances from 30MHz~1GHz in a semi-anechoic chamber at a distance of 3m	5.16 dB
Horizontally polarized radiated disturbances from 30MHz~1GHz in a semi-anechoic chamber at a distance of 3m	5.02 dB
Radiated disturbances from 1GHz~18GHz in a semi-anechoic chamber at a distance of 3m	5.17 dB
Vertically polarized Radiated disturbances from 18GHz~26.5GHz in a semi-anechoic chamber at a distance of 1m	2.39 dB
Horizontally polarized Radiated disturbances from 18GHz~26.5GHz in a semi-anechoic chamber at a distance of 1m	2.39 dB
Radiated disturbances from 9kHz~30MHz in a semi-anechoic chamber at a distance of 3m	3.70 dB
Emission on the Band Edge Test	4.32 dB
Occupied Bandwidth	7.78 %
Maximum Peak Conducted Output Power	0.44 dB
Power Spectral Density	1.27 dB
Emissions In Non-Restricted Frequency Bands	1.27 dB
AC Power Line Conducted Emission	3.08 dB