

Dynascan Technology Corp.

TEST REPORT

Model:
FBP205

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Radio Spectrum TEST REPORT

Applicant:	Dynascan Technology Corp. 6F., No. 88, Wenmao Rd., Guishan Dist., Taoyuan City 333001, Taiwan
Product:	Digital Transmission Systems
Model No.:	FBP205
FCC ID:	2AKWYFBP205
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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Revision History

Report No.	Issue Date	Revision Summary
220900339THC-001	Oct. 28, 2022	<ol style="list-style-type: none">1. This case is to add different Host(Product Name: 55" Display, Model No.: 64428), so the FCC C2PC (Conducted Output Power, Spurious Emission, Band Edge, and AC Conducted Emissions) is exeuted.2. FCC Original Grant Date: 07/01/2022, FCC ID: 2AKWYFBP205

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Summary of Test Data

Test Requirement	Applicable Rule (Section 15.247)	Result
Maximum Peak Conducted Output Power	15.247(b)(3)	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	Pass
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:	Digital Transmission System
Model No.:	FBP205
Operating Frequency:	1. 2412MHz ~ 2462MHz for 802.11b/g/n HT20 2. 2422MHz ~ 2452MHz for 802.11n HT40
Channel Number:	1. 11 channels for 2412MHz ~ 2462MHz 2. 7 channels for 2422MHz ~ 2452MHz
Access scheme:	DSSS, OFDM
Power Cord:	N/A
Sample receiving date:	2022/09/20
Sample condition:	Workable
Test Date(s):	2022/10/04 ~ 2022/10/11

1.2 Description of the EUT

Modulation mode	Transmit path	
	Chain 0	Chain 1
802.11b	V	V
802.11g	V	V
802.11 n (HT20)	V	V
802.11 n (HT40)	V	V

Item	Product name	Model No.	Rated Power
Host	55" Display	64428	100-240V~ 50/60Hz 3A

1.3 Antenna description

For antenna 0 (Chain 0)

Antenna Gain : -3.04 dBi
Antenna Type : PIFA antenna
Connector Type : I-pex

For antenna 1 (Chain 1)

Antenna Gain : -3.04 dBi
Antenna Type : PIFA antenna
Connector Type : I-pex

1.4 Operation mode

Power on, executing "WLAN Test Tool V2.3.0" to select different frequency and modulation.

With individual verifying, the maximum output power were found out 1 Mbps data rate for 802.11b mode, 6 Mbps data rate for 802.11g mode, 6.5 Mbps data rate for 802.11n(HT20) mode, 13.5 Mbps data rate for 802.11n(HT40) mode the final tests were executed under these conditions recorded in this report individually.

2. Maximum Peak Conducted Output Power

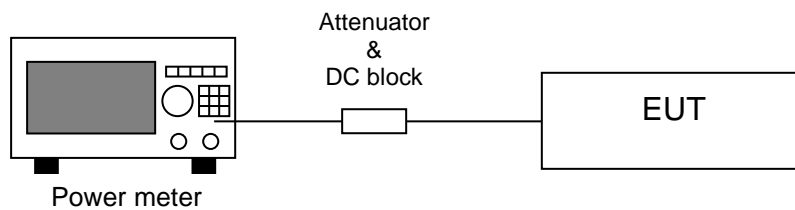
2.1 Instrument Setting

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

2.2 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.

2.3 Test Diagram



2.4 Limit

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

2.5 Test Results

Temperature (°C) :	26
Relative Humidity (%) :	55
Test date :	2022/10/05
Host :	64428

Mode	Ch	Frequency (MHz)	Output Power (dBm)				Output Power (mW)				Total Power (dBm)				Limit (dBm)	Margin (dB)
			Chain 0		Chain 1		Chain 0		Chain 1		AV		PK			
			AV	PK	AV	PK	AV	PK	AV	PK	0+1 (mW)	0+1 (dBm)	0+1 (mW)	0+1 (dBm)		
802.11b (Chain0+1)	1	2412	21.41	23.32	19.69	21.55	138.36	214.78	93.11	142.89	231.47	23.64	357.67	25.53	30.00	-4.47
	6	2437	21.24	23.06	19.10	20.89	133.05	202.30	81.28	122.74	214.33	23.31	325.05	25.12	30.00	-4.88
	11	2462	22.50	24.30	21.00	22.86	177.83	269.15	125.89	193.20	303.72	24.82	462.35	26.65	30.00	-3.35

Mode	Ch	Frequency (MHz)	Output Power (dBm)				Output Power (mW)				Total Power (dBm)				Limit (dBm)	Margin (dB)
			Chain 0		Chain 1		Chain 0		Chain 1		AV		PK			
			AV	PK	AV	PK	AV	PK	AV	PK	0+1 (mW)	0+1 (dBm)	0+1 (mW)	0+1 (dBm)		
802.11g (Chain0+1)	1	2412	17.70	25.07	16.66	24.30	58.88	321.37	46.34	269.15	105.23	20.22	590.52	27.71	30.00	-2.29
	6	2437	17.35	25.09	15.35	24.26	54.33	322.85	34.28	266.69	88.60	19.47	589.54	27.71	30.00	-2.29
	11	2462	17.50	25.52	16.51	24.60	56.23	356.45	44.77	288.40	101.01	20.04	644.85	28.09	30.00	-1.91

Mode	Ch	Frequency (MHz)	Output Power (dBm)				Output Power (mW)				Total Power (dBm)				Limit (dBm)	Margin (dB)
			Chain 0		Chain 1		Chain 0		Chain 1		AV		PK			
			AV	PK	AV	PK	AV	PK	AV	PK	0+1 (mW)	0+1 (dBm)	0+1 (mW)	0+1 (dBm)		
802.11n (HT20) (Chain0+1)	1	2412	16.00	24.35	15.10	22.61	39.81	272.27	32.36	182.39	72.17	18.58	454.66	26.58	30.00	-3.42
	6	2437	15.75	23.42	14.40	23.34	37.58	219.79	27.54	215.77	65.13	18.14	435.56	26.39	30.00	-3.61
	11	2462	17.51	25.50	15.40	23.22	56.36	354.81	34.67	209.89	91.04	19.59	564.71	27.52	30.00	-2.48

Mode	Ch	Frequency (MHz)	Output Power (dBm)				Output Power (mW)				Total Power (dBm)				Limit (dBm)	Margin (dB)
			Chain 0		Chain 1		Chain 0		Chain 1		AV		PK			
			AV	PK	AV	PK	AV	PK	AV	PK	0+1 (mW)	0+1 (dBm)	0+1 (mW)	0+1 (dBm)		
802.11n (HT40) (Chain0+1)	3	2422	15.50	24.35	14.45	23.34	35.48	272.27	27.86	215.77	63.34	18.02	488.04	26.88	30.00	-3.12
	6	2437	15.30	22.99	14.10	22.04	33.88	199.07	25.70	159.96	59.59	17.75	359.02	25.55	30.00	-4.45
	9	2452	16.33	24.00	14.97	23.33	42.95	251.19	31.41	215.28	74.36	18.71	466.47	26.69	30.00	-3.31

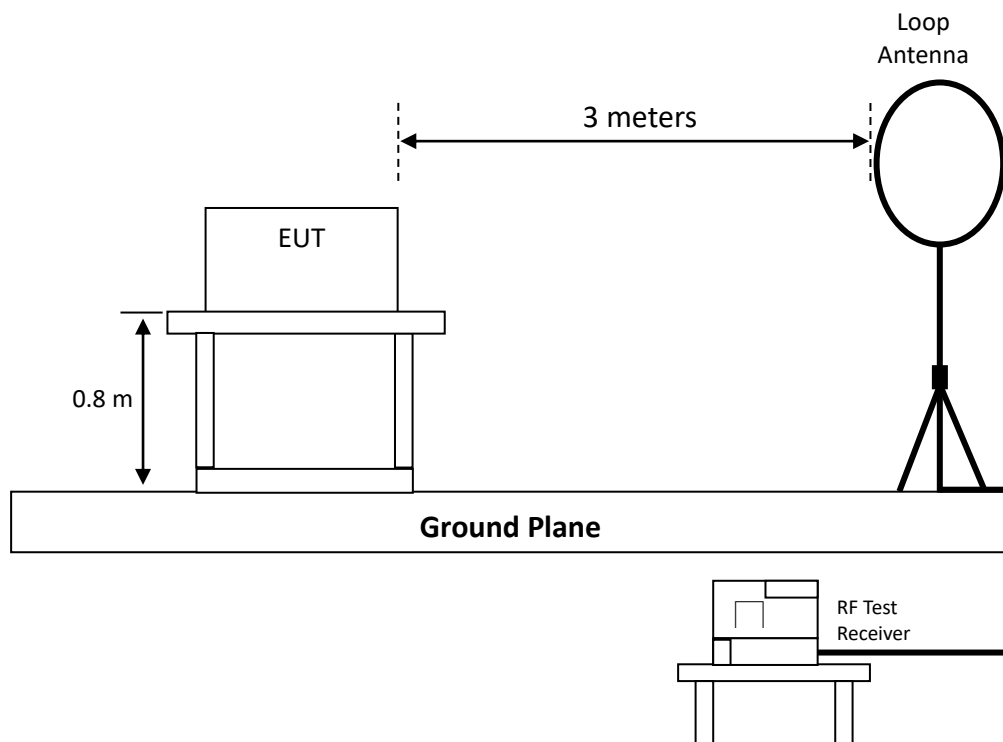
3. Emissions in Restricted Frequency Bands (Radiated emission measurements)

3.1 Instrument Setting

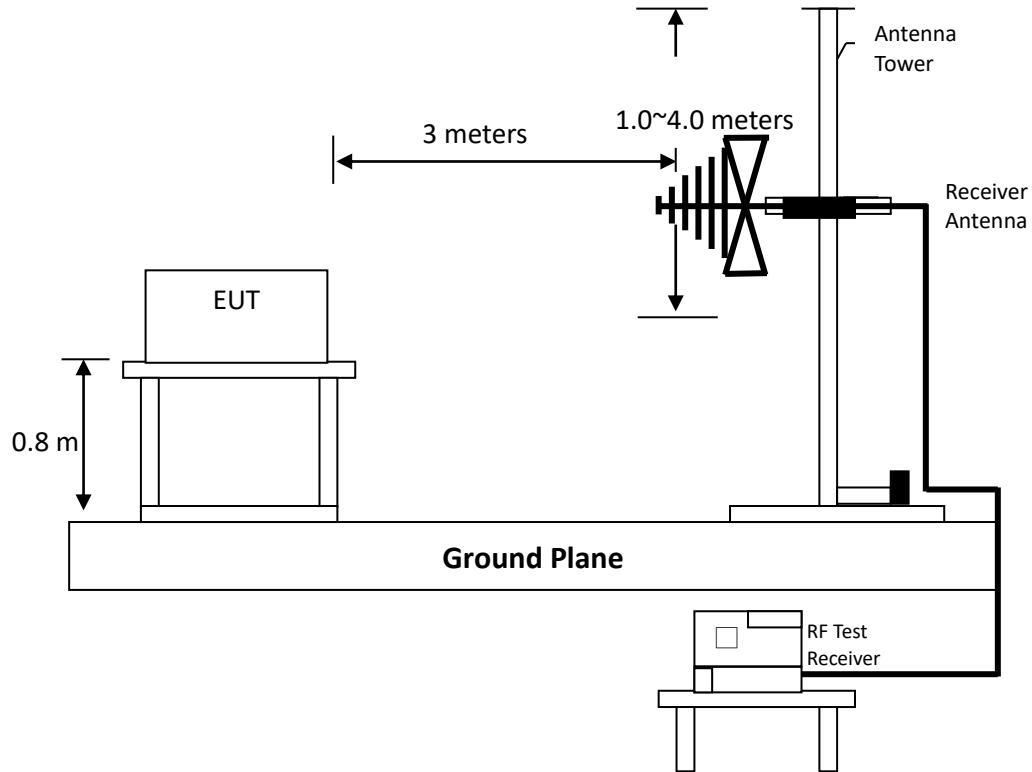
Receiver Function	Setting (Below 1GHz)	Setting (Above 1GHz)
Detector	QP	Peak and Average
RBW	9-150 kHz; 200-300 Hz 0.15-30 MHz; 9-10 kHz 30-1000 MHz; 100-120 kHz	1MHz
VBW	$\geq 3 \times \text{RBW}$	3MHz & 1/T minimum kHz
Sweep	Auto couple	Auto couple
Start Frequency	9 kHz	1GHz
Stop Frequency	1 GHz	Tenth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

3.2 Test setup & procedure

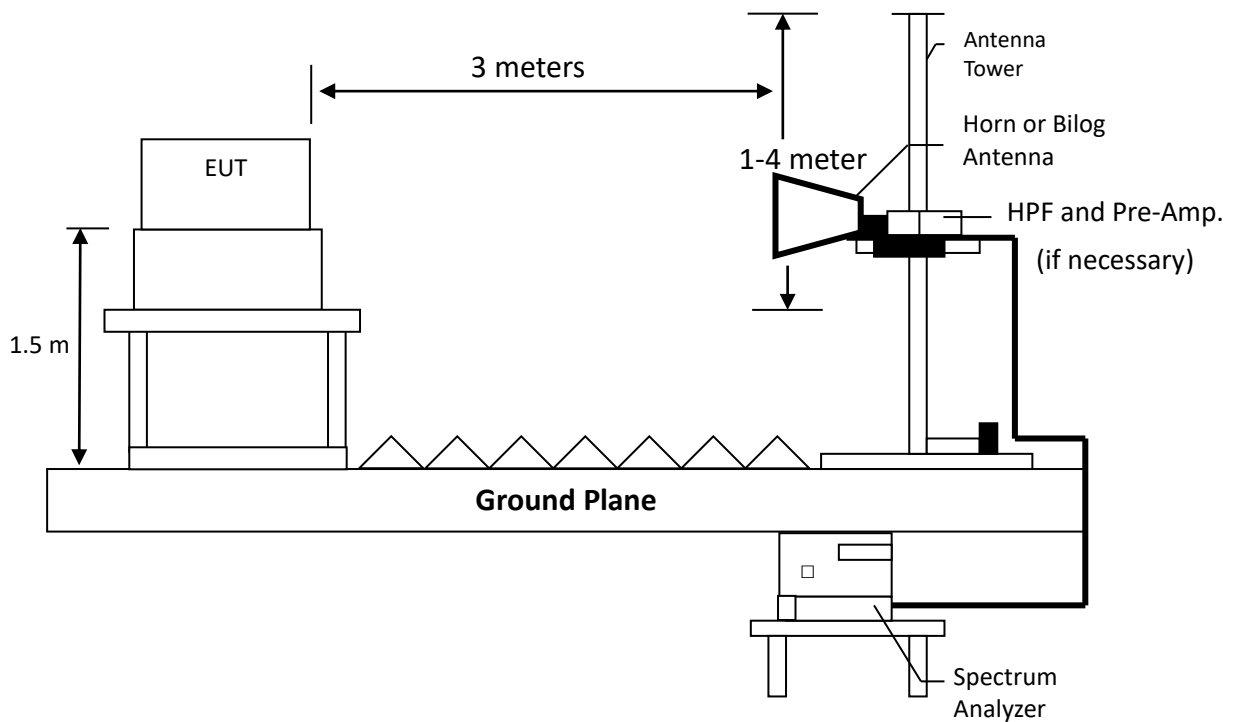
Radiated emission from 9kHz to 30MHz uses Loop Antenna:



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 1/T minimum kHz 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.

3.3 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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3.4 Test Result

3.4.1 Measurement results from 9kHz to 30MHz

Temperature (°C) :	28
Relative Humidity (%) :	56
Test date :	2022/10/04
Host :	64428

The test was performed on EUT under continuously transmitting mode. The worst case occurred at 802.11g Chain0+1 Channel 11.

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	0.069	AV	18.76	49.38	68.14	114.73	-46.59
Perpendicular	0.159	AV	18.14	38.86	57.00	103.63	-46.63
Perpendicular	0.339	AV	18.66	29.48	48.14	97.02	-48.88
Perpendicular	0.519	QP	18.81	26.43	45.24	73.34	-28.10
Perpendicular	0.729	QP	18.94	23.55	42.49	70.43	-27.94
Perpendicular	0.999	QP	19.10	22.49	41.59	67.61	-26.02

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	0.069	AV	18.76	44.04	62.80	114.73	-51.93
Parallel	0.129	AV	18.04	34.87	52.91	105.56	-52.65
Parallel	0.339	AV	18.66	27.10	45.76	97.02	-51.26
Parallel	0.549	QP	18.83	24.44	43.27	72.86	-29.59
Parallel	0.729	QP	18.94	22.91	41.85	70.43	-28.58
Parallel	0.999	QP	19.10	21.04	40.14	67.61	-27.47

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	0.009	AV	18.11	52.74	70.85	128.52	-57.67
Ground-parallel	0.069	AV	18.76	42.54	61.30	114.73	-53.43
Ground-parallel	0.129	AV	18.04	32.86	50.90	105.56	-54.66
Ground-parallel	0.189	AV	18.24	27.12	45.36	102.13	-56.77
Ground-parallel	0.339	AV	18.66	22.71	41.37	97.02	-55.65
Ground-parallel	0.519	QP	18.81	20.07	38.88	73.34	-34.46

Remark: Corr. Factor = Antenna Factor + Cable Loss

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3.4.2 Measurement results from 30 MHz to 1 GHz

Temperature (°C) :	28
Relative Humidity (%) :	56
Test date :	2022/10/04
Host :	64428

The test was performed on EUT under continuously transmitting mode. The worst case occurred at 802.11g Chain0+1 Channel 11.

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	74.62	QP	17.42	15.90	33.32	40.00	-6.68
Vertical	330.70	QP	22.56	18.35	40.91	46.00	-5.09
Vertical	368.53	QP	23.44	18.60	42.04	46.00	-3.96
Vertical	602.30	QP	28.96	14.83	43.79	46.00	-2.21
Vertical	676.99	QP	29.89	11.66	41.55	46.00	-4.45
Vertical	828.31	QP	32.56	13.01	45.57	46.00	-0.43

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	74.62	QP	17.42	17.17	34.59	40.00	-5.41
Horizontal	282.20	QP	21.20	20.20	41.40	46.00	-4.60
Horizontal	368.53	QP	23.44	17.53	40.97	46.00	-5.03
Horizontal	602.30	QP	28.96	13.54	42.50	46.00	-3.50
Horizontal	828.31	QP	32.56	10.22	42.78	46.00	-3.22
Horizontal	903.00	QP	33.20	10.57	43.77	46.00	-2.23

Remark: Corr. Factor = Antenna Factor + Cable Loss

TEST REPORT

3.4.3 Measurement results from 1 GHz to 25 GHz

Temperature (°C) :	28
Relative Humidity (%) :	56
Test date :	2022/10/04
Host :	64428

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)
802.11g_Ch11 Chain0+1	4924	PK	H	-6.02	42.21	36.19	74	-37.81
	4924	PK	V	-6.02	41.63	35.61	74	-38.39

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

4. Emission on Band Edge**4.1 Instrument Setting**

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

4.2 Test Procedure

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

TEST REPORT

4.3 Test Results

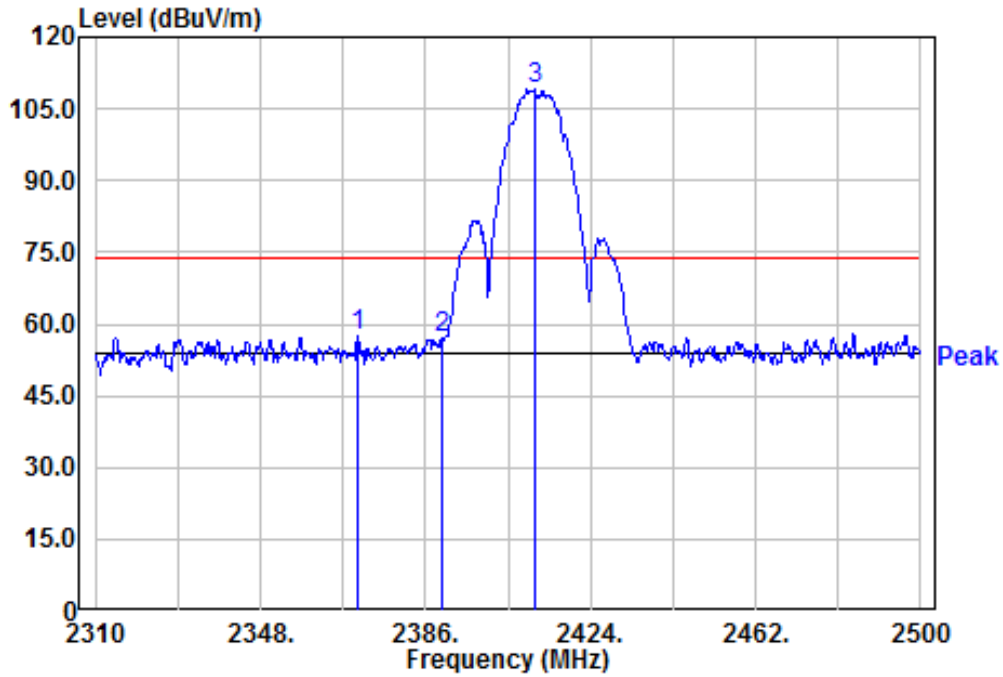
Temperature (°C) :	28
Relative Humidity (%) :	56
Test date :	2022/10/04
Host :	64428

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)
802.11b Chain0+1	2370.42	PK	H	34.35	23.08	57.43	74	-16.57	2310~2390
	2390.00	AV	H	34.25	13.80	48.05	54	-5.95	
	2488.22	PK	H	34.62	25.12	59.74	74	-14.26	2483.5~2500
	2487.84	AV	H	34.62	18.94	53.56	54	-0.44	
802.11g Chain0+1	2390.00	PK	H	34.25	27.16	61.41	74	-12.59	2310~2390
	2390.00	AV	H	34.25	19.42	53.67	54	-0.33	
	2484.80	PK	H	34.58	30.51	65.09	74	-8.91	2483.5~2500
	2483.50	AV	H	34.58	18.86	53.44	54	-0.56	
802.11n (HT20) Chain0+1	2390.00	PK	H	34.25	32.66	66.91	74	-7.09	2310~2390
	2390.00	AV	H	34.25	19.46	53.71	54	-0.29	
	2483.50	PK	H	34.58	28.06	62.64	74	-11.36	2483.5~2500
	2483.50	AV	H	34.58	18.89	53.47	54	-0.53	
802.11n (HT40) Chain0+1	2389.04	PK	H	34.26	29.78	64.04	74	-9.96	2310~2390
	2388.66	AV	H	34.26	17.79	52.05	54	-1.95	
	2487.46	PK	H	34.61	29.50	64.11	74	-9.89	2483.5~2500
	2483.50	AV	H	34.58	17.88	52.46	54	-1.54	

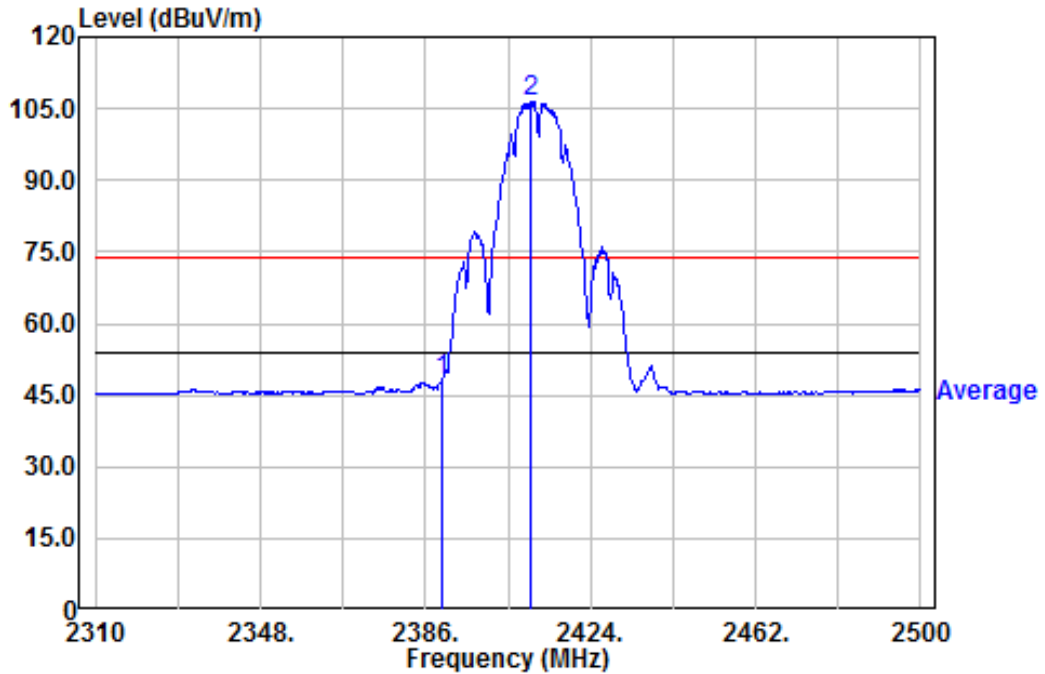
Remark: Correction Factor = Antenna Factor + Cable Loss

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Chain0+1 : Restricted Band Bandedge @ 802.11b Mode Ch1 PK

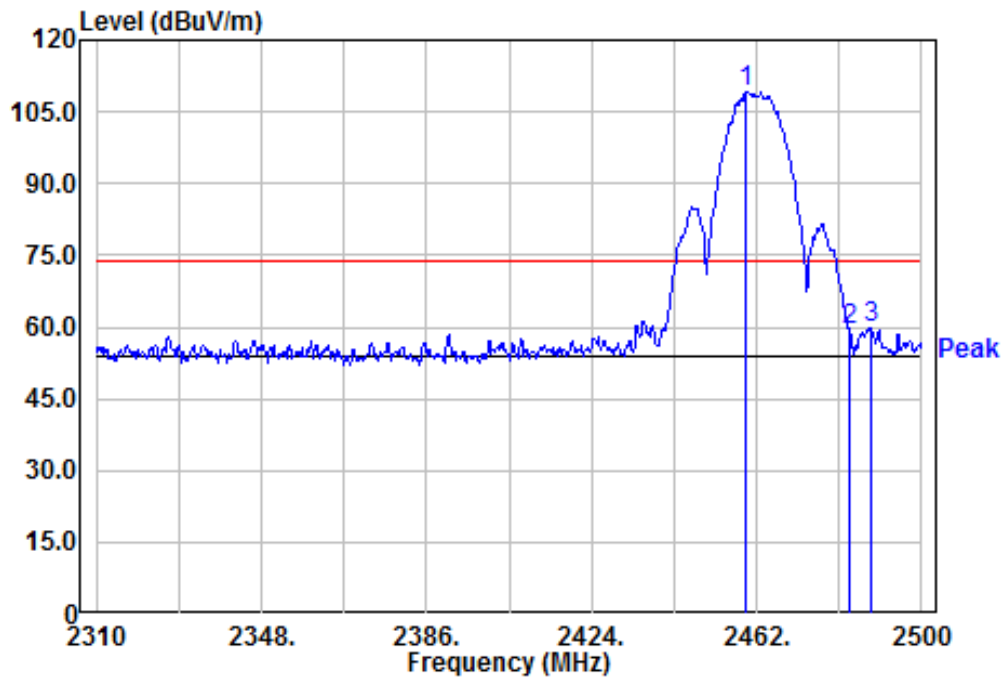


Chain0+1 : Restricted Band Bandedge @ 802.11b Mode Ch1 AV

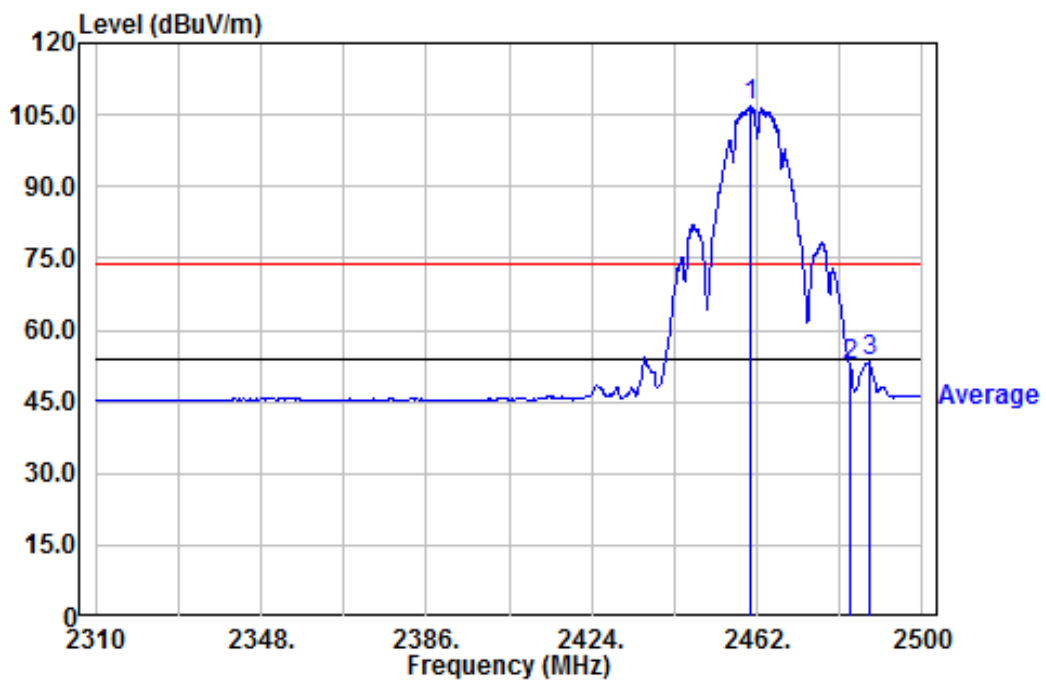


TEST REPORT

Chain0+1 : Restricted Band Bandedge @ 802.11b Mode Ch11 PK

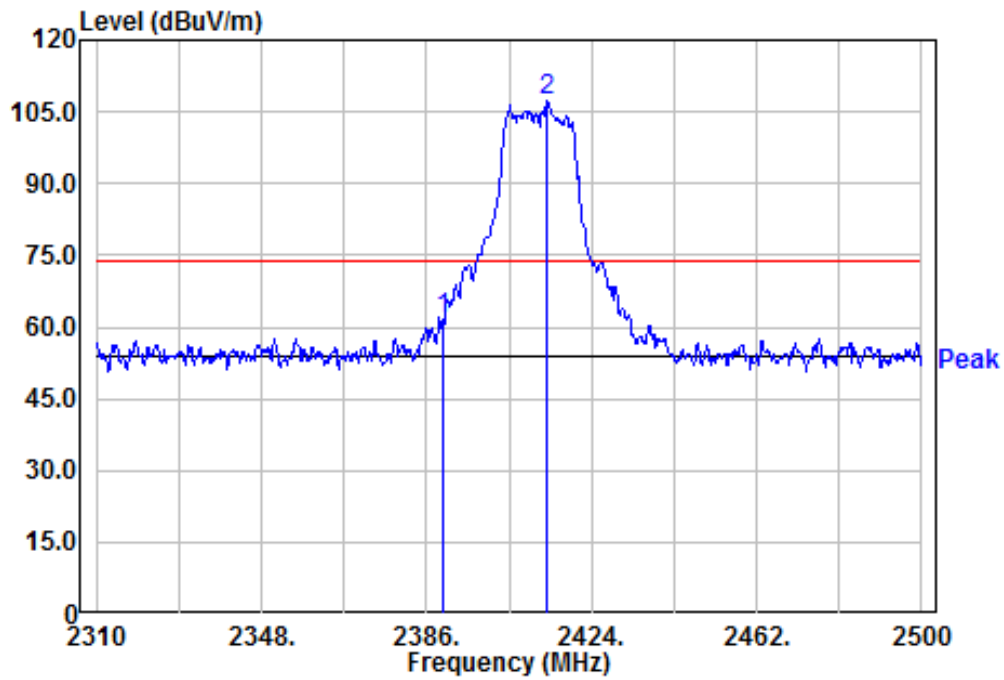


Chain0+1: Restricted Band Bandedge @ 802.11b Mode Ch11 AV

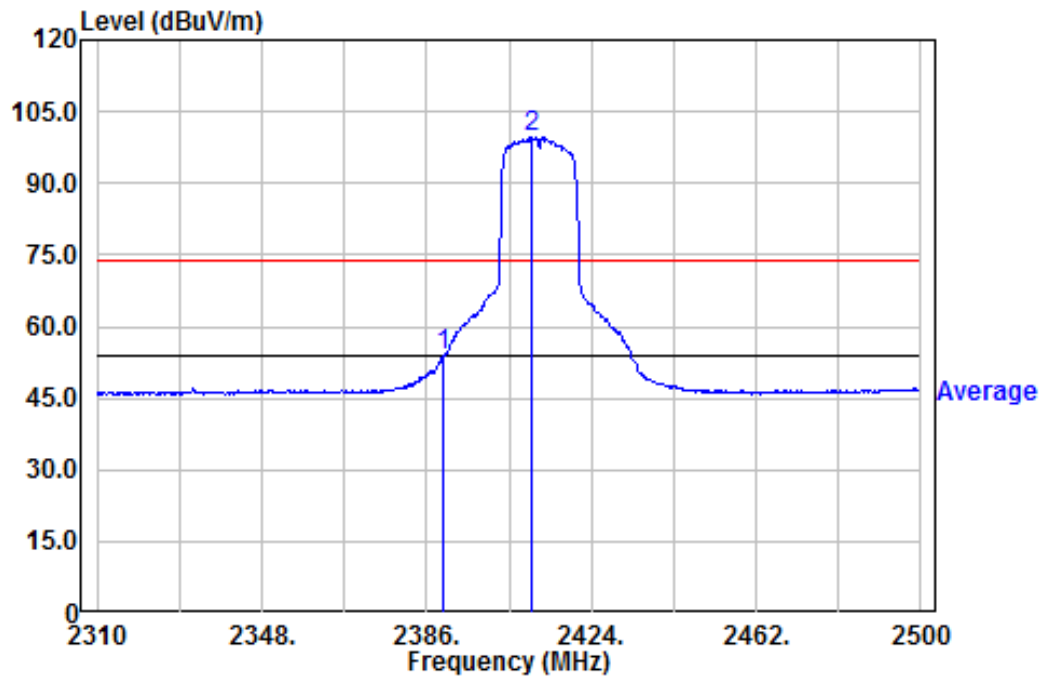


TEST REPORT

Chain0+1 : Restricted Band Bandedge @ 802.11g Mode Ch1 PK

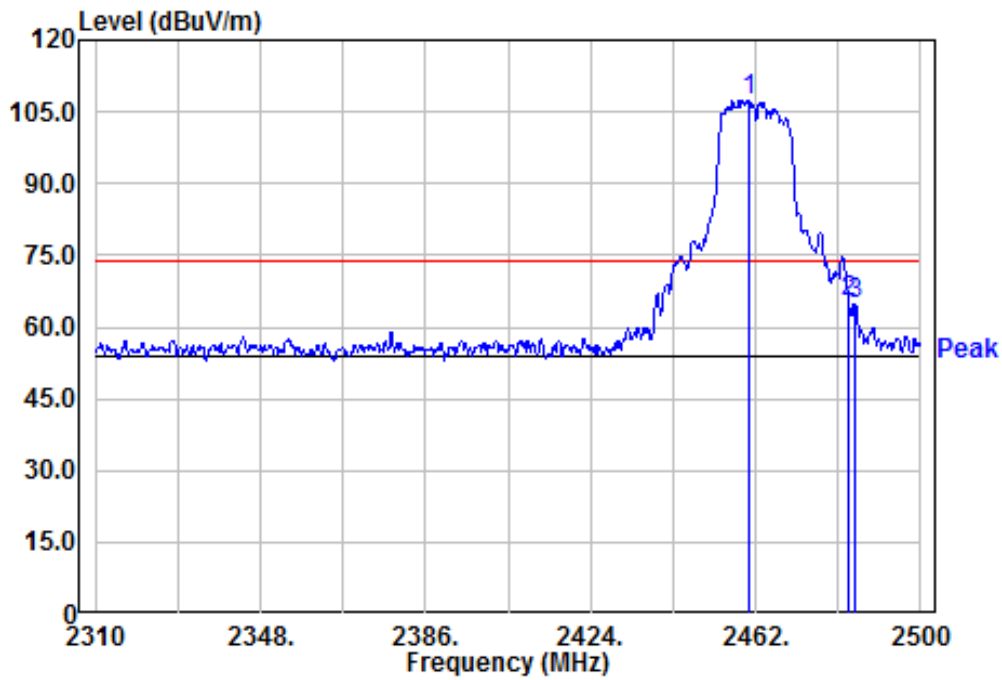


Chain0+1 : Restricted Band Bandedge @ 802.11g Mode Ch1 AV

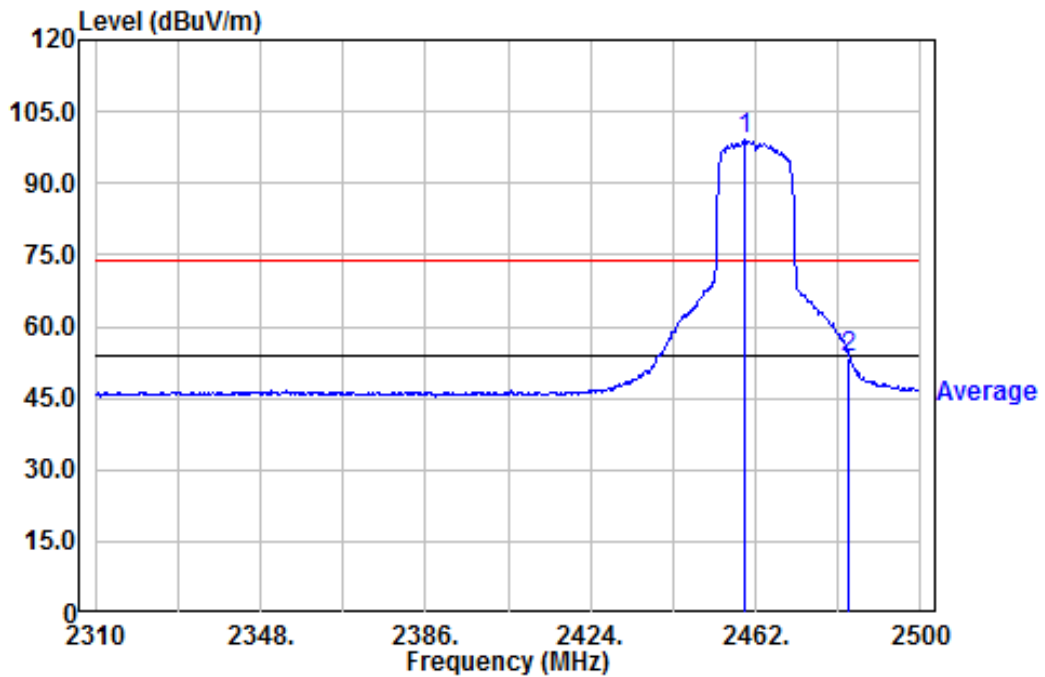


TEST REPORT

Chain0+1 : Restricted Band Bandedge @ 802.11g Mode Ch11 PK

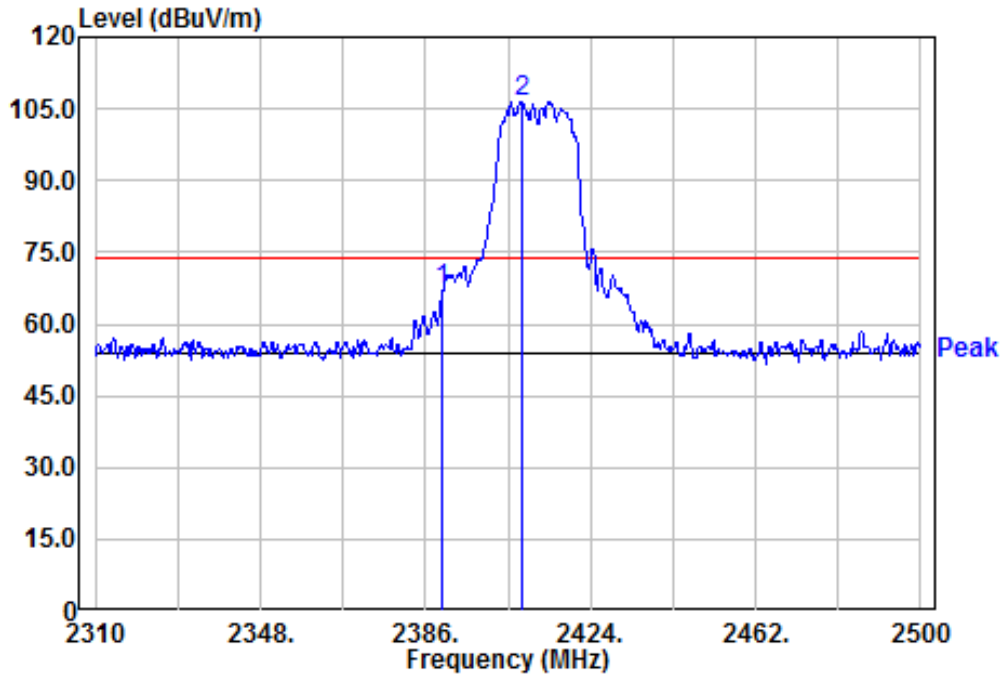


Chain0+1 : Restricted Band Bandedge @ 802.11g Mode Ch11 AV

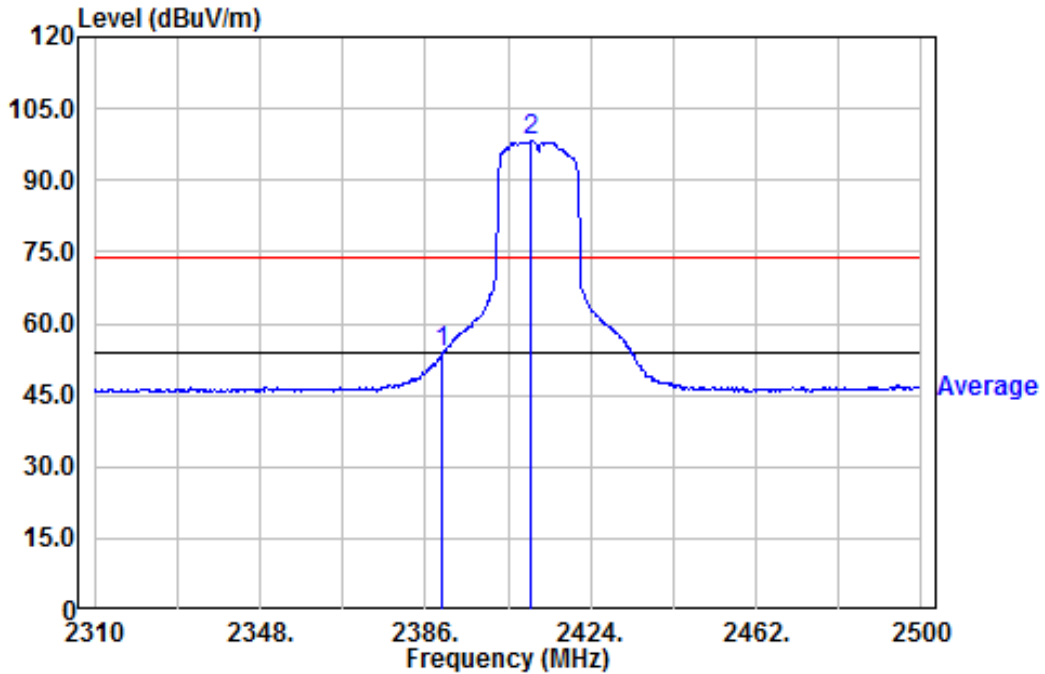


TEST REPORT

Chain0+1 : Restricted Band Bandedge @ 802.11n(HT20) Mode Ch1 PK

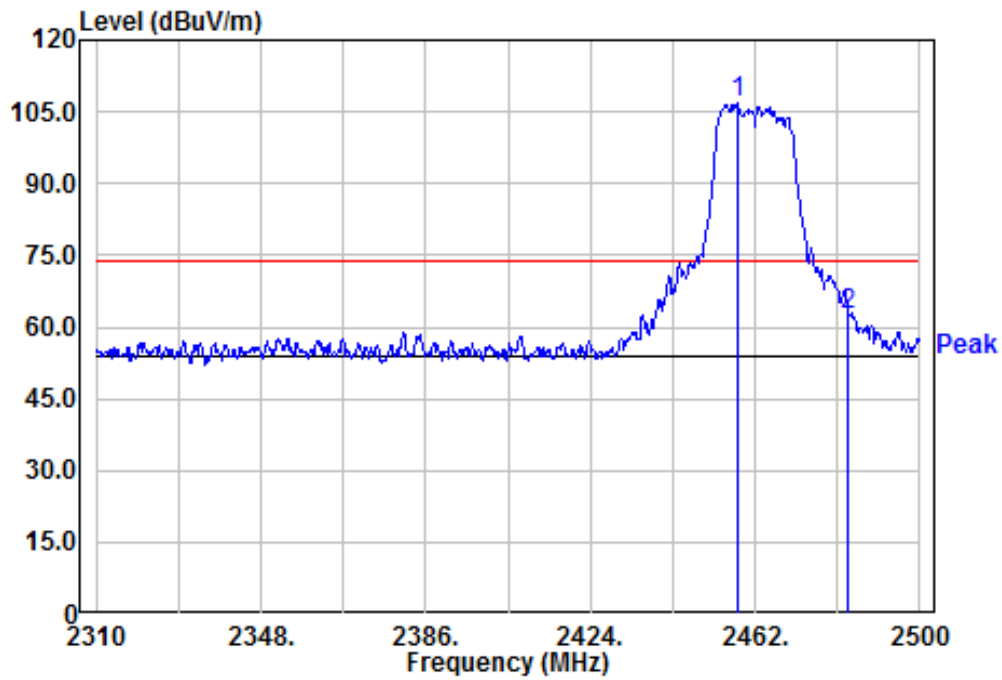


Chain0+1 : Restricted Band Bandedge @ 802.11n(HT20) Mode Ch1 AV

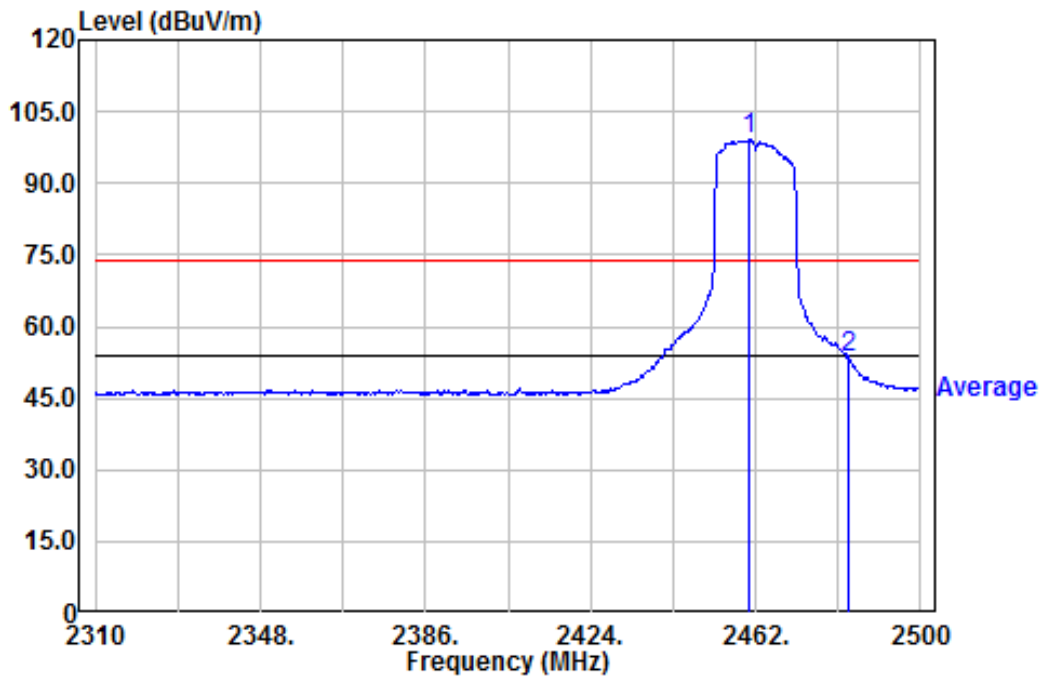


TEST REPORT

Chain0+1 : Restricted Band Bandedge @ 802.11n(HT20) Mode Ch11 PK

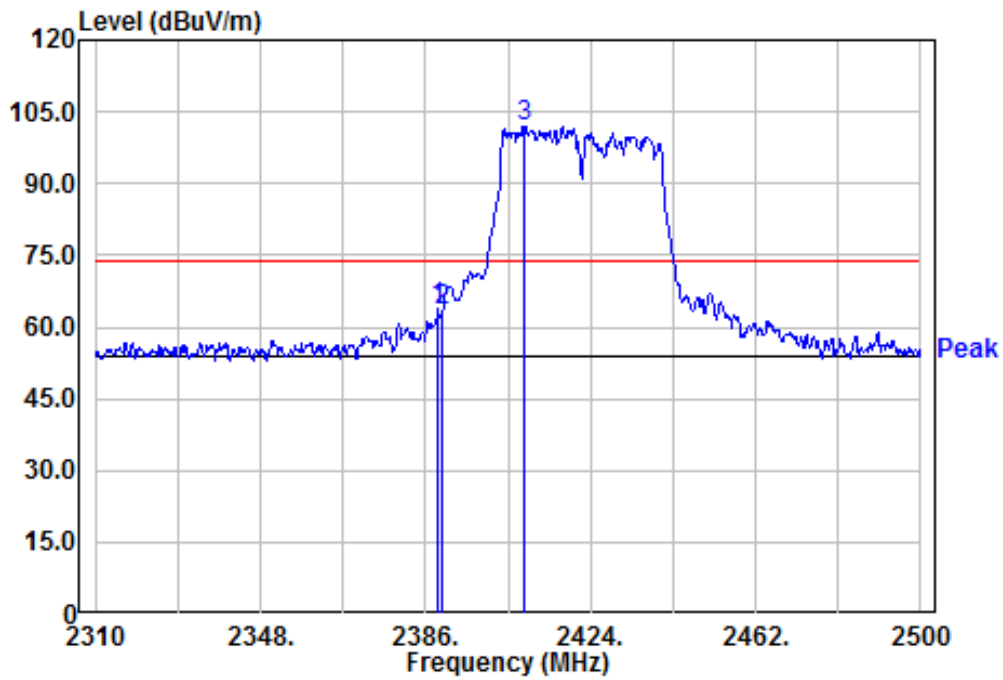


Chain0+1 : Restricted Band Bandedge @ 802.11n(HT20) Mode Ch11 AV

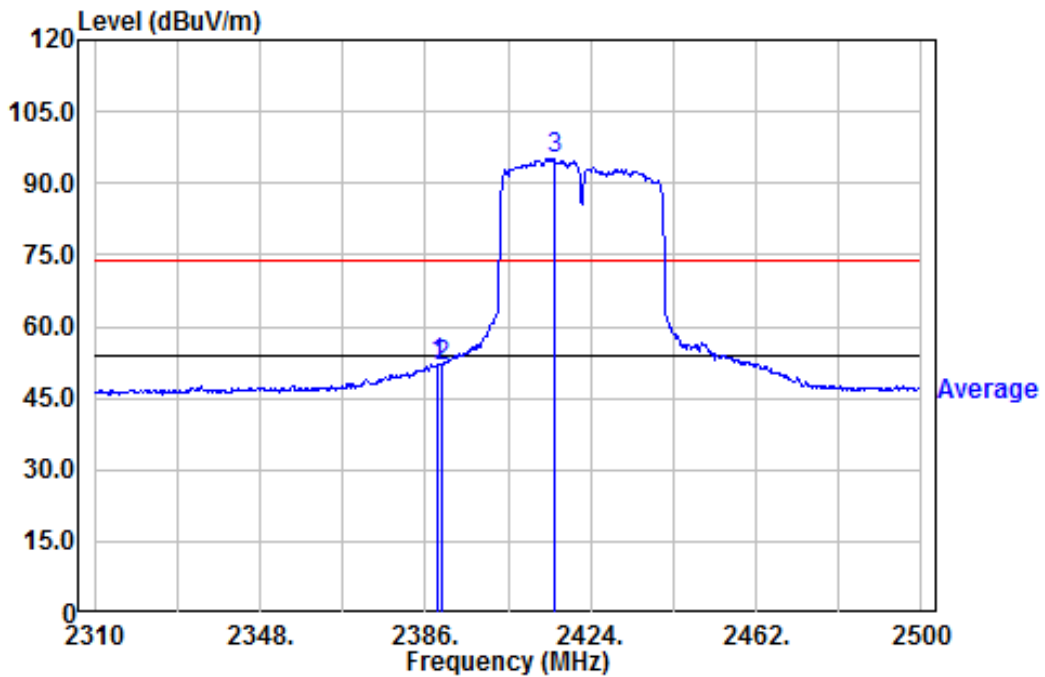


TEST REPORT

Chain0+1 : Restricted Band Bandedge @ 802.11n(HT40) Mode Ch3 PK

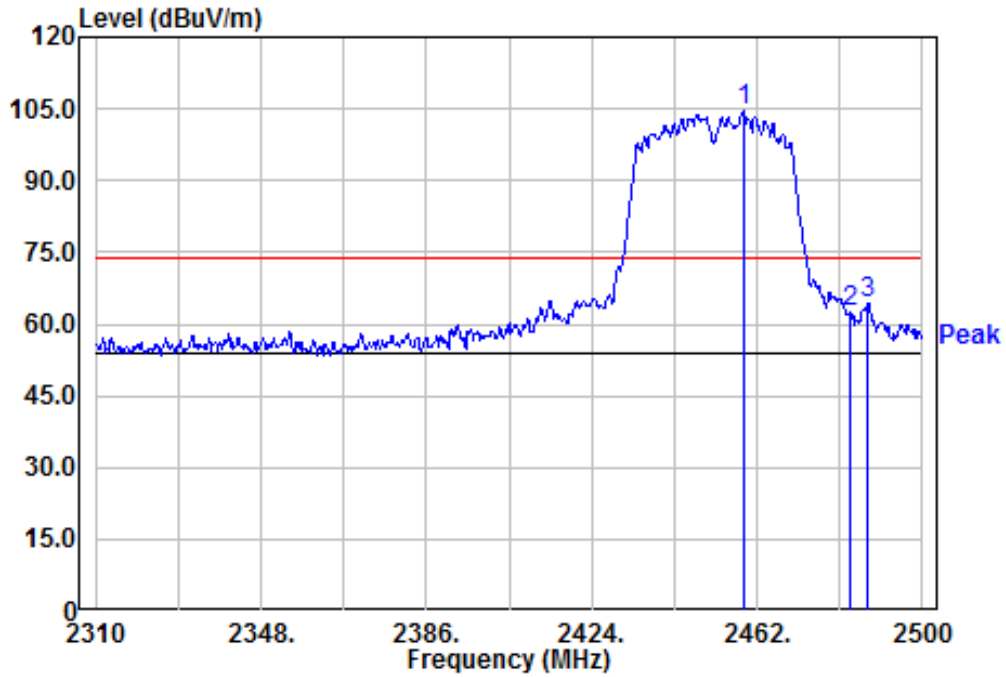


Chain0+1 : Restricted Band Bandedge @ 802.11n(HT40) Mode Ch3 AV

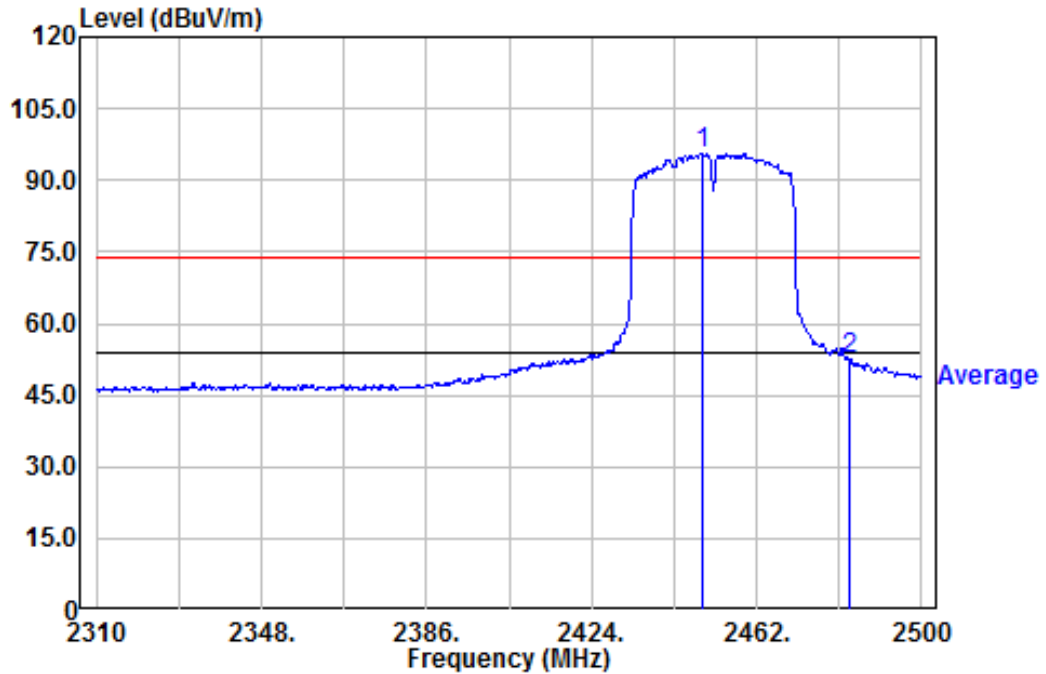


TEST REPORT

Chain0+1 : Restricted Band Bandedge @ 802.11n(HT40) Mode Ch9 PK



Chain0+1 : Restricted Band Bandedge @ 802.11n(HT40) Mode Ch9 AV



TEST REPORT

5. AC Power Line Conducted Emission

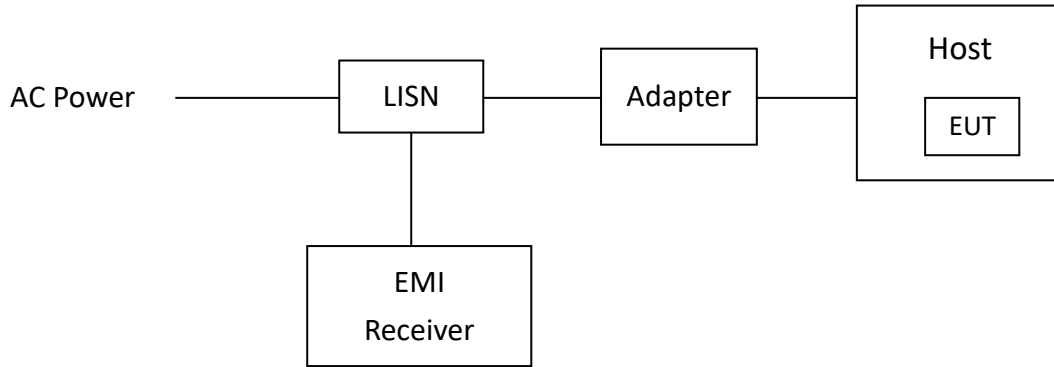
5.1 Measuring instrument setting

Receiver Function	Setting
Detector	QP
Start frequency	0.15MHz
Stop frequency	30MHz
IF bandwidth	9 kHz
Attenuation	10dB

5.2 Test Procedure

Step 1	Configure the EUT according to ANSI C63.10:2013. The EUT or host of EHT has to be placed 0.4 meter far from the conducting wall of the shielding room and at least 80 centimeters from any other grounded conducting surface.
Step 2	Connect EUT or host of EUT to the power mains through a line impedance stabilization network.
Step 3	All the companion devices are connected to the other LISN. The LISN should provide 50Uh/50ohms coupling impedance.
Step 4	The frequency range from 150 kHz to 30MHz was searched.
Step 5	Set the test-receiver system to peak detector and specified bandwidth with maximum hold mode.
Step 6	The measurement has to be done between each power line and ground at the power terminal.

5.3 Test Diagram



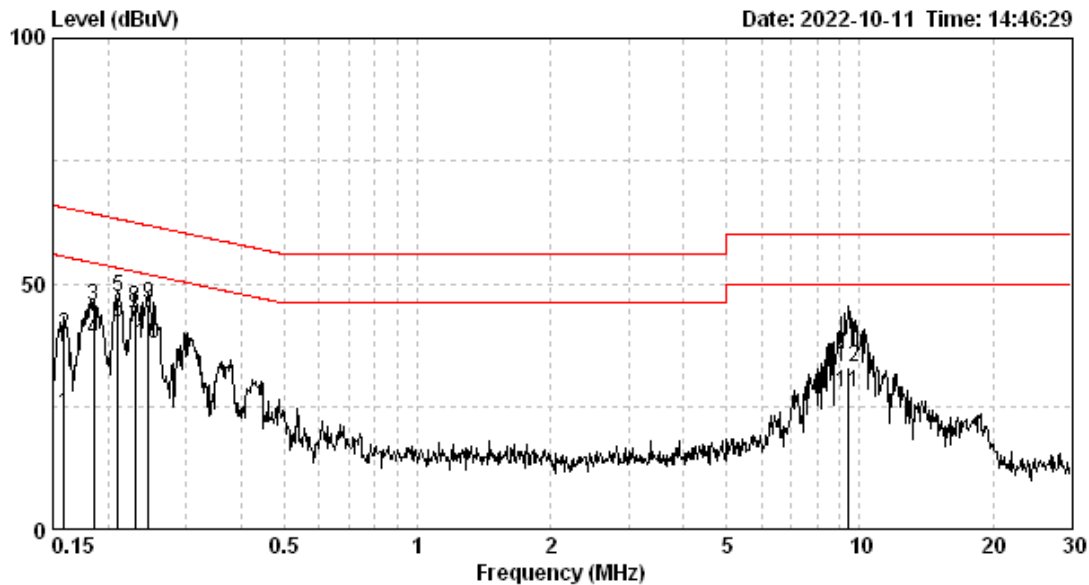
5.4 Limit

Frequency (MHz)	Conducted Limit (dBuV)	
	Q.P.	Ave.
0.15~0.50	66 – 56	56 – 46
0.50~5.00	56	46
5.00~30.0	60	50

TEST REPORT

5.5 Test Results

Model No.:	FBP205
Host :	64428



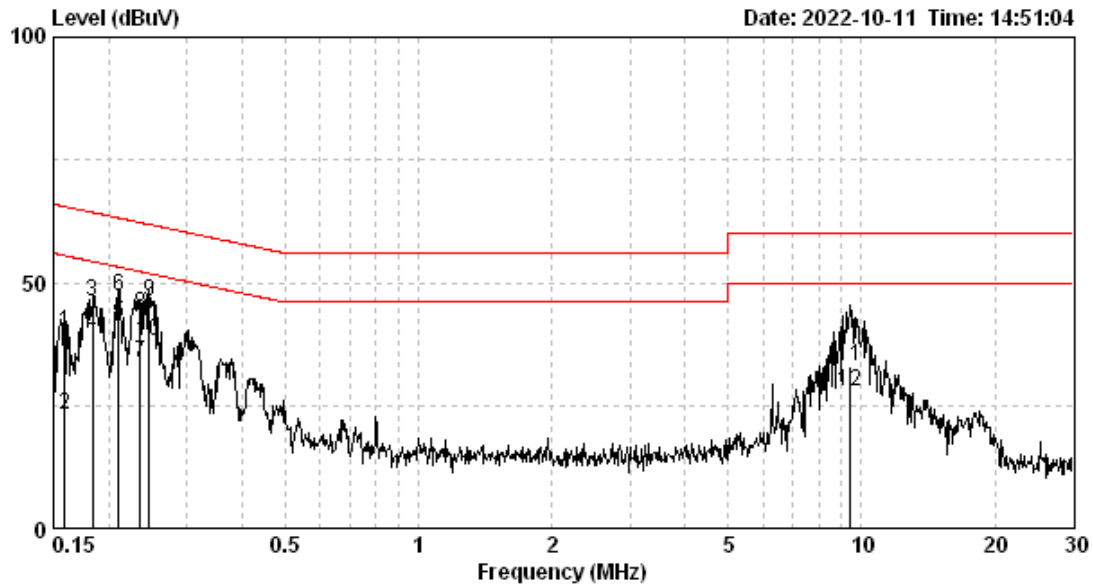
Test voltage : AC 120V/60Hz
 Temp. / R.H. : 22°C / 60%
 Atmospheric pressure : 1007 hPa

Phase	Frequency (MHz)	Corr. Factor (dB)	Reading QP (dBuV)	Level QP (dBuV)	Limit QP (dBuV)	Reading AV (dBuV)	Level AV (dBuV)	Limit AV (dBuV)	Margin (dB)	
									QP	AV
LINE	0.159	9.65	29.98	39.63	65.52	13.65	23.30	55.52	-25.88	-32.21
LINE	0.185	9.65	35.66	45.31	64.24	28.73	38.38	54.24	-18.93	-15.86
LINE	0.211	9.65	37.70	47.36	63.18	32.29	41.94	53.18	-15.83	-11.24
LINE	0.230	9.65	35.51	45.16	62.44	31.36	41.01	52.44	-17.27	-11.42
LINE	0.247	9.65	36.11	45.77	61.86	28.22	37.87	51.86	-16.10	-13.99
LINE	9.451	9.78	23.34	33.13	60.00	18.00	27.78	50.00	-26.87	-22.22

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Level (dBuV) = Corr. Factor (dB) + Reading (dBuV)
3. Margin (dB) = Level (dBuV) – Limit (dBuV)

TEST REPORT



Test voltage :AC 120V/60Hz
 Temp. / R.H. :22°C / 60%
 Atmospheric pressure :1007 hPa

Phase	Frequency (MHz)	Corr. Factor (dB)	Reading QP (dBuV)	Level QP (dBuV)	Limit QP (dBuV)	Reading AV (dBuV)	Level AV (dBuV)	Limit AV (dBuV)	Margin (dB)	
									QP	AV
NEUTRAL	0.159	9.66	30.19	39.85	65.52	13.40	23.07	55.52	-25.67	-32.45
NEUTRAL	0.183	9.66	36.63	46.29	64.33	29.78	39.44	54.33	-18.04	-14.89
NEUTRAL	0.211	9.66	37.61	47.28	63.18	31.93	41.59	53.18	-15.91	-11.59
NEUTRAL	0.235	9.66	33.80	43.46	62.26	23.97	33.63	52.26	-18.80	-18.63
NEUTRAL	0.247	9.66	36.44	46.10	61.86	28.40	38.06	51.86	-15.76	-13.80
NEUTRAL	9.451	9.81	23.32	33.13	60.00	18.02	27.83	50.00	-26.87	-22.17

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Level (dBuV) = Corr. Factor (dB) + Reading (dBuV)
3. Margin (dB) = Level (dBuV) – Limit (dBuV)

TEST REPORT

Appendix A: Test equipment list

Test Equipment/ Test site	Brand	Model No.	Serial No.	Calibration Date	Next Calibration Date
EMI Test Receiver	Rohde & Schwarz	ESR7	101822	2022/08/09	2023/08/08
Signal Analyzer	Agilent	N9030A	MY51380492	2022/08/09	2023/08/08
Active Loop Antenna	SCHWARZBECK MESS-ELEKTRONIC	FMZB1519	1519-067	2022/04/13	2023/04/12
Broadband Antenna	SHWARZBECK	VULB 9168	9168-172	2022/01/20	2023/01/19
Horn Antenna	EMCO	BBHA 9120 D	9120D-456	2022/01/21	2023/01/20
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170159	2021/04/08	2024/04/07
Broadband Amplifier	SGH	SGH118(45dB)	20220105-1	2022/01/07	2023/01/06
Pre-amplifier	SGH	SGH184	20201124-1	2021/12/06	2022/12/05
Power Meter	Anritsu	ML2495A	0844001	2022/07/04	2023/07/03
Power Sensor	Anritsu	MA2491A	031543	2022/03/07	2023/03/06
966-2(A) Cable	SUHNER	SMA / EX 100	N/A	2022/03/04	2023/03/03
966-2(B) Cable	SUHNER	SUCOFLEX 104P	CB0005	2022/03/04	2023/03/03
966-2 Cable	SUHNER	SUCOFLEX 104P	9403/4P	2021/11/30	2022/11/29
966-2_3m Semi-Anechoic Chamber	966_2	CEM-966_2	N/A	2022/01/14	2023/01/13
Hight Pass Filter	Reactel	7HS-3G/18G-S11	N/A	2022/05/25	2023/05/24
20dB Attenuator	Mini-Circuits	BW-S20W5+	N/A	2022/05/25	2023/05/24
Test software	Audix	e3	V9	NCR	NCR

Note: No Calibration Required (NCR).

TEST REPORT

Test Equipment	Brand	Model No.	Serial No.	Calibration Date	Next Calibration Date
EMI Test Receiver	R&S	ESCI	100018	2021/11/16	2022/11/15
LISN	R&S	ENV216	101160	2022/07/13	2023/07/12
CON-2 Cable	SUHNER	EMCCFD300-B M-NM-6000	170502	2022/04/29	2023/04/28
Test software	Audix	e3	V4.20040112L	NCR	NCR

Note: No Calibration Required (NCR).

TEST REPORT

Appendix B: Measurement Uncertainty

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

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
Emission on the Band Edge Test	4.32 dB
Maximum Peak Conducted Output Power	0.44 dB
Emissions In Non-Restricted Frequency Bands	1.27 dB
AC Power Line Conducted Emission	3.08 dB