

TEST REPORT

Applicant	Belkin International, Inc.
Address	555 S. Aviation Blvd., Suite 180, El Segundo, CA 90245, USA

Manufacturer or Supplier	Belkin International, Inc.
Address	555 S. Aviation Blvd., Suite 180, El Segundo, CA 90245, USA
Product	Boostcharge Pro 3-in-1 Magnetic Charging Stand
Brand Name	belkin
Model	WIZ023V2
Additional Model & Model Difference	N/A
Date of tests	Nov. 27, 2024 ~ Dec. 24, 2024

The submitted sample of the above equipment has been tested for according to the requirements of the following standards:

☒ **FCC Part 15, Subpart C**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Eric Fang Project Engineer / EMC Department	Approved by Glyn He Assistant Manager/ EMC Department
	
	Date: Jan. 15, 2025

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Test Report No.: RF2411WDG0259

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF2411WDG0259	Original release	Jan. 15, 2025

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
§15.203	Antenna Requirement	PASS	No antenna connector is used.
§15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit.
§15.209	Radiated Emission	PASS	Meet the requirement of limit.
§15.215 (c)	20dB Bandwidth	PASS	Meet the requirement of limit.

2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	0.15MHz ~ 30MHz	3.36 dB
Radiated emissions	9KHz ~ 30MHz	2.16dB
	30MHz ~ 1GMHz	4.69 dB

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



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Boostcharge Pro 3-in-1 Magnetic Charging Stand
MODEL NO.	WIZ023V2
ADDITIONAL MODE	N/A
SAMPLE STATUS	Engineering sample
FCC ID	K7SWIZ023V2
POWER SUPPLY	DC 12V From Adapter
MODULATION TYPE	FSK
OPERATING FREQUENCY RANGE	15W Qi2 Charging Coil (MPP):127.7kHz & 360kHz 5W Qi (BPP)/7.5W(iPhone) Charging Coil:111-148kHz Apple Watch Charging Coil:326.5kHz&1.778MHz
I/O PORTS	Coil Antenna*3
FIELD STRENGTH	73.57dBuV/m
MAXIMUM POWER OUTPUT FROM THE CHARGING COIL	Max Power is 15W
CABLE SUPPLIED	See note 4

NOTES:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- Please refer to the EUT photo document (Reference No.: 2411WDG0259-3) for detailed product photo.
- Product cable information as follows :

ID	Descriptions	Qty.	Length (m)	Shielding (Y/N)	Cores (Qty.)	Remark
1	USB-C TO INTEGRATED WIRELESS CHARGING COIL CABLE	1	1.5	Y	0	N/A

- Adapter information as follows :

USB-C Power Adapter	
MODEL NO.:	A732-150240C-US1
BRAND NAME:	belkin
INPUT:	100-240Vac, 50-60Hz 1.2A
OUTPUT:	5Vdc 3A, 9Vdc 3A, 12Vdc 3A, 15Vdc 2.4A
PLUG TYPE	US

3.2 DESCRIPTION OF TEST MODES

The following test frequencies are provided to this EUT:

Configure	Mode			Operating Frequency Range(KHz)		
	15W Coil	5W/7.5W Coil	Watch Coil	15W Coil	5W/7.5W Coil	Watch Coil
A	Standby	Standby	Standby	/	/	326.5
B	iPhone 16 Pro	Standby	Standby	360	/	326.5
C	Standby	AirPods Pro Case	Standby	/	125.4	326.5
D	iPhone 16 Pro	AirPods Pro Case	Apple Watch S3	360	125.2	326.5
E	iPhone 11 Pro	AirPods Pro Case	Apple Watch S7	127.7	123.7	1778

3.3 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO			DESCRIPTION		
	RE<1G	PLC	20BW	15W Coil	5W/7.5W Coil	Watch Coil
A	√	-	√	Standby+Standby+Standby		
B	√	-	√	iPhone 16 Pro+Standby+Standby		
C	√	-	√	Standby+AirPods Pro Case+Standby		
D	√	-	√	iPhone 16 Pro+AirPods Pro Case+ Apple Watch S3		
E	√	√	√	IPhone 11 Pro+AirPods Pro Case+ Apple Watch S7		

Where **RE<1G**: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

20BW: 20dB Bandwidth

Power Line Conducted Emission Test :

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the worst final test as listed below.

EUT configure mode	Operating Frequency Range(kHz)			Test Frequency(kHz)			Modulation Type
	15W Coil	5W/7.5W Coil	Watch Coil	15W Coil	5W/7.5W Coil	Watch Coil	
E	127.7& 360	111-148	326.5&1778	127.7	123.7	1778	FSK

Radiated Emission Test (Below 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT configure mode	Operating Frequency Range(kHz)			Test Frequency(kHz)			Modulation Type
	15W Coil	5W/7.5W Coil	Watch Coil	15W Coil	5W/7.5W Coil	Watch Coil	
A	127.7&360	111-148	326.5&1778	/	/	326.5	FSK
B	127.7&360	111-148	326.5&1778	360	/	326.5	FSK
C	127.7&360	111-148	326.5&1778	/	125.4	326.5	FSK
D	127.7&360	111-148	326.5&1778	360	125.2	326.5	FSK
E	127.7&360	111-148	326.5&1778	127.7	123.7	1778	FSK



20dB Bandwidth TEST:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT configure mode	Operating Frequency Range(kHz)			Test Frequency(kHz)			Modulation Type
	15W Coil	5W/7.5W Coil	Watch Coil	15W Coil	5W/7.5W Coil	Watch Coil	
A	127.7&360	111-148	326.5&1778	/	/	326.5	FSK
B	127.7&360	111-148	326.5&1778	360	/	326.5	FSK
C	127.7&360	111-148	326.5&1778	/	125.4	326.5	FSK
E	127.7&360	111-148	326.5&1778	127.7	123.7	1778	FSK

TEST CONDITION:

Applicable to	Environmental conditions	Input Power	Tested by
RE<1G	25 °C, 56% RH/27 °C, 58% RH	AC 120V 60Hz	Albert/Jelly
PLC	25 °C, 45RH	AC 120V 60Hz	Summer
20BW	24 °C, 58% RH	AC 120V 60Hz	Jeffery

3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as a dependent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

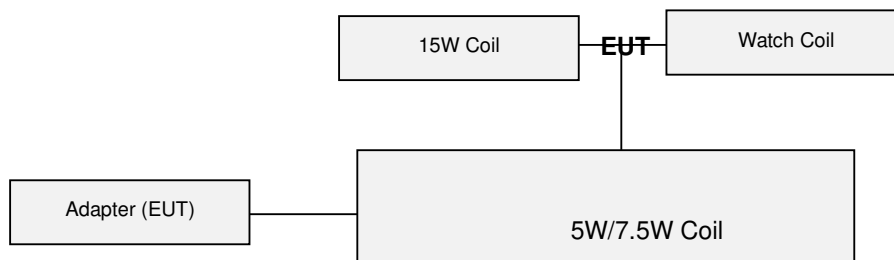
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	iPhone 16 Pro(1#)	Apple	A3083 (MYM93LL/A)	HY9H79YM6Y	BCG-E8666A	BV Lab.
B	iPhone 16 Pro(2#)	Apple	A3083 (MYM93LL/A)	C57JWWWYG0	BCG-E8666A	
C	iPhone 11 Pro	Apple	MWDD2CH/A	F17ZMCAMN6YL	N/A	
D	AirPods Pro Case	Apple	A2190	GXDGFE8W1059	N/A	
E	Apple watch Series7	Apple	A2474	T9VJ36WRRV	N/A	
F	Apple watch Series3	Apple	MQL12CH/A	N/A	N/A	

NO.	DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A

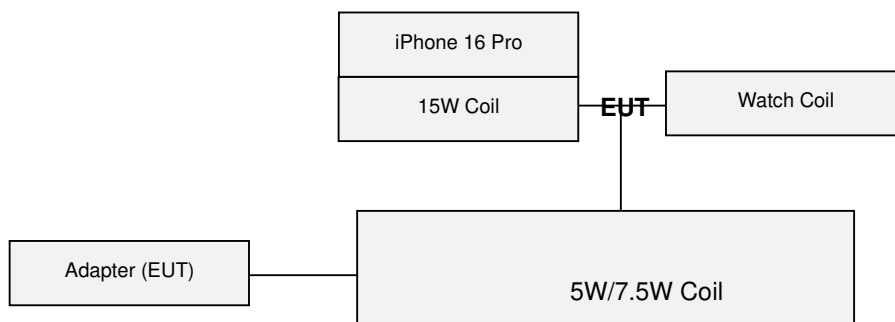
NOTE: All power cords of the above support units are non-shielded (1.8m).

3.5 CONFIGURATION OF SYSTEM UNDER TEST

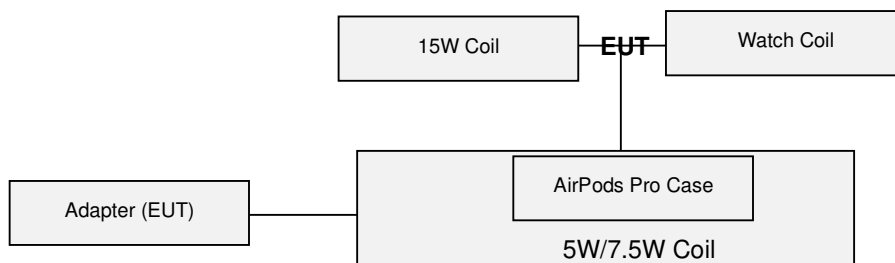
Mode A: Standby



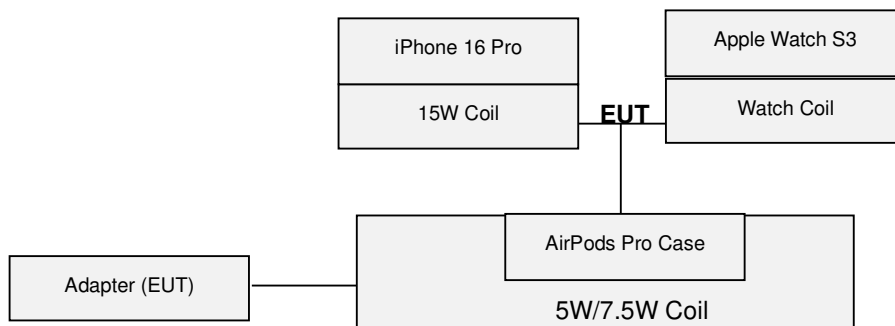
ModeB: EUT 15W Coil Charging to iPhone 16 Pro+ 5W/7.5W Coil Standby+ Watch Coil Standby



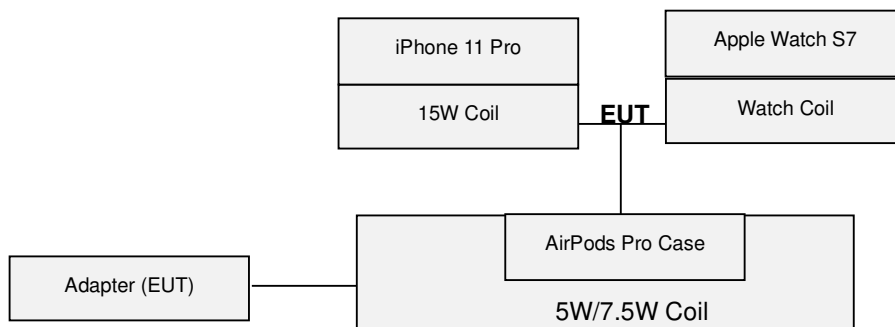
ModeC: EUT 15W Coil Standby+ 5W/7.5W Coil AirPods Pro Case+ Watch Coil Standby



ModeD: EUT 15W Coil Charging to iPhone 16 Pro+ 5W/7.5W Coil Charging to AirPods Pro Case+ Watch
Coil Charging to Apple Watch S3



ModeE: EUT 15W Coil Charging to iPhone 11 Pro+ 5W/7.5W Coil Charging to AirPods Pro Case+ Watch
Coil Charging to Apple Watch S7





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3.6 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C (15.207/15.209)

ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.



4 EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

- NOTES:**
- (1) The lower limit shall apply at the transition frequencies.
 - (2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
 - (3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101494	Oct. 09, 25
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	Oct. 10, 25
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	Oct. 09, 25
Artificial Mains Network	SCHWARZBECK	NSLK 8122	8122-05001	Apr. 09, 25
V-LISN (CISPR 25)	SCHWARZBECK	NNBM 8124-200	8124-200 05857	Apr. 09, 25
V-LISN (CISPR 25)	SCHWARZBECK	NNBM 8124-200	8124-200 05858	Apr. 09, 25
Voltage probe	SCHWARZBECK	TK 9421	TK 9421-176	Jul. 10, 25
Coaxial RF Cable	SUHNER	RG 223/U-CE	C2310066DG	Jun. 23, 25
Test software	ADT	ADT_Cond_V7.3.7	N/A	N/A

- NOTE:**
1. Equipment are calibrated by calibration laboratory accredited to ISO/IEC 17025 by a mutually recognized Accreditation and all tests are conducted within a valid calibration cycle.
 2. The test was performed in shielding room 553.

4.1.3 TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.4:2014 (section 7).

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20dB) were not recorded.

NOTE:

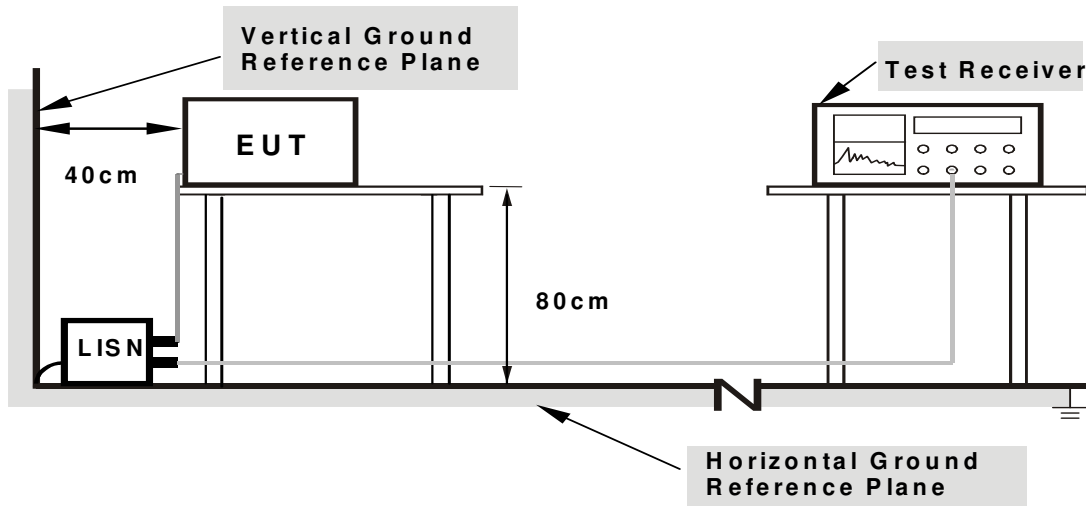
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

4.1.4 DEVIATION FROM TEST STANDARD

No deviation.



4.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.

4.1.6 EUT OPERATING CONDITIONS

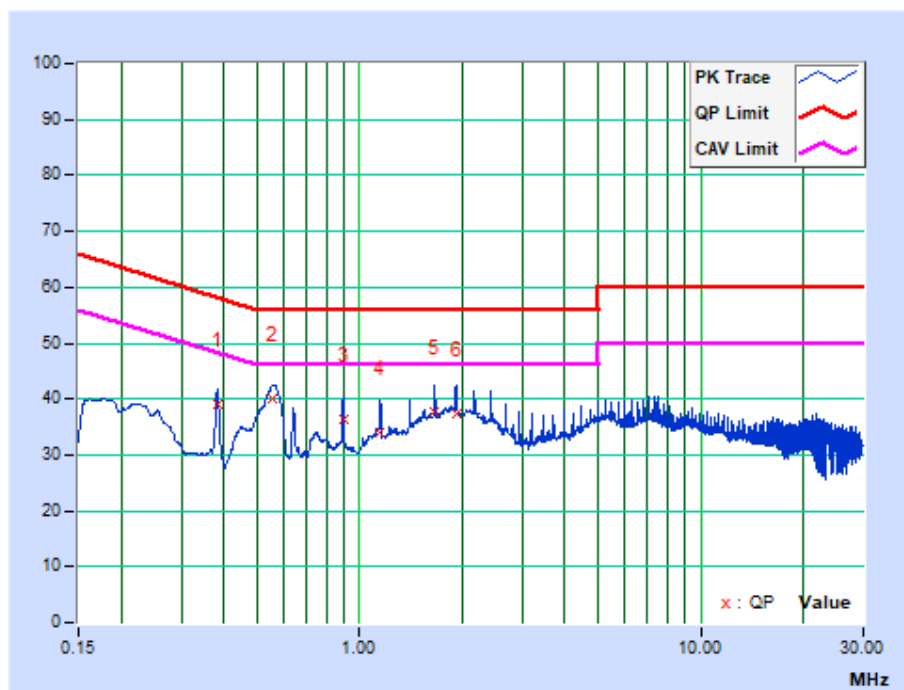
- Turned on the power of all equipment.
- EUT was operated according to the type description in manufacturer's specifications or the User's Manual.

4.1.7 TEST RESULTS

TEST MODE	Mode E	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	AC 120V 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	25deg. C, 75% RH	TESTED BY	Summer
TEST DATE	2024-12-04		

No.	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.38400	9.82	29.16	23.15	38.98	32.97	58.19	48.19	-19.22	-15.23
2	0.55225	9.83	30.07	15.76	39.90	25.59	56.00	46.00	-16.10	-20.41
3	0.89475	9.87	26.59	20.82	36.46	30.69	56.00	46.00	-19.54	-15.31
4	1.15125	9.89	24.28	18.45	34.17	28.34	56.00	46.00	-21.83	-17.66
5	1.66200	9.93	27.78	21.60	37.71	31.53	56.00	46.00	-18.29	-14.47
6	1.91850	9.94	27.48	20.91	37.42	30.85	56.00	46.00	-18.58	-15.15

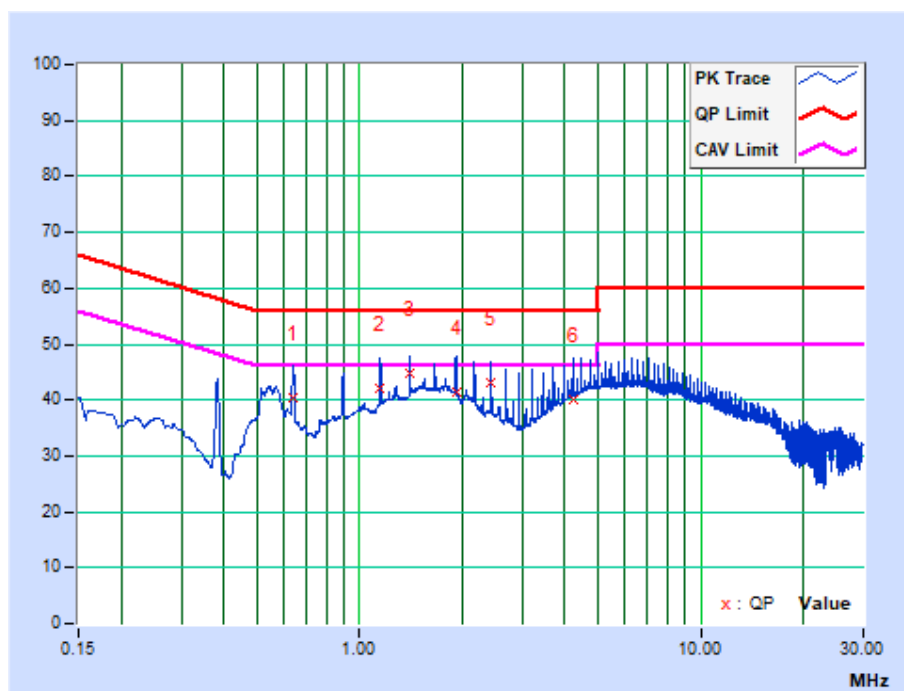
REMARKS: The emission levels of other frequencies were very low against the limit.



TEST MODE	Mode E	6DB BANDWIDTH	9 kHz
TEST VOLTAGE	AC 120V 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	25deg. C, 75% RH	TESTED BY	Summer
TEST DATE	2024-12-04		

No.	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.63857	9.69	30.85	27.18	40.54	36.87	56.00	46.00	-15.46	-9.13
2	1.15125	9.72	32.43	26.69	42.15	36.41	56.00	46.00	-13.85	-9.59
3	1.40550	9.75	35.17	29.60	44.92	39.35	56.00	46.00	-11.08	-6.65
4	1.91850	9.79	31.69	25.67	41.48	35.46	56.00	46.00	-14.52	-10.54
5	2.42899	9.82	33.43	27.53	43.25	37.35	56.00	46.00	-12.75	-8.65
6	4.21800	9.93	30.08	24.03	40.01	33.96	56.00	46.00	-15.99	-12.04

REMARKS: The emission levels of other frequencies were very low against the limit.





4.2 ADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

TEST STANDARD: FCC Part 15, Subpart C, Section 15.209

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

NOTES:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
4. The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

**4.2.2 TEST INSTRUMENTS****FREQUENCY 9KHz-30MHz**

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101564	Jan. 02, 25
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	1519B-045	Apr. 13, 25
Amplifier	Burgeon	BPA-530	100210	Feb. 21, 25
Coaxial RF Cable	Yaohong	Cable below 30MHz	C2310019DG	Jun. 27, 25
Test Software	ADT	ADT_Radiated_V8.7.07	N/A	N/A

- NOTES:** 1. The test was performed in 10m Chamber.
 2. Equipment are calibrated by calibration laboratory accredited to ISO/IEC 17025 by a mutually recognized Accreditation and all tests are conducted within a valid calibration cycle.
 3. The FCC Site Registration No. is 749762.

FREQUENCY 30MHz-1GHz

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU40	100449	Oct. 10, 25
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-554	Dec. 25, 25
Pre-Amplifier	Burgeon	BPA-530	100220	Feb. 21, 25
3m Semi-anechoic Chamber	Burgeon	9m*6m*6m	NSEMC003	May. 20, 25
Coaxial RF Cable(3m Below 1G)	Yaohong	966 below 1GHz	C2310017DG	Jun. 23, 25
Coaxial RF Cable(3m Below 1G)	Yaohong	966 below 1GHz	C2310087DG	Jun. 23, 25
Test software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A

- NOTES:** 1. The test was performed in 966 Chamber
 2. Equipment are calibrated by calibration laboratory accredited to ISO/IEC 17025 by a mutually recognized Accreditation and all tests are conducted within a valid calibration cycle.
 3. The FCC Site Registration No. is 749762.

4.2.3 TEST PROCEDURE

< Below 30MHz >

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meters Semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1.3 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

<30MHz~1GHz >

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

NOTES:

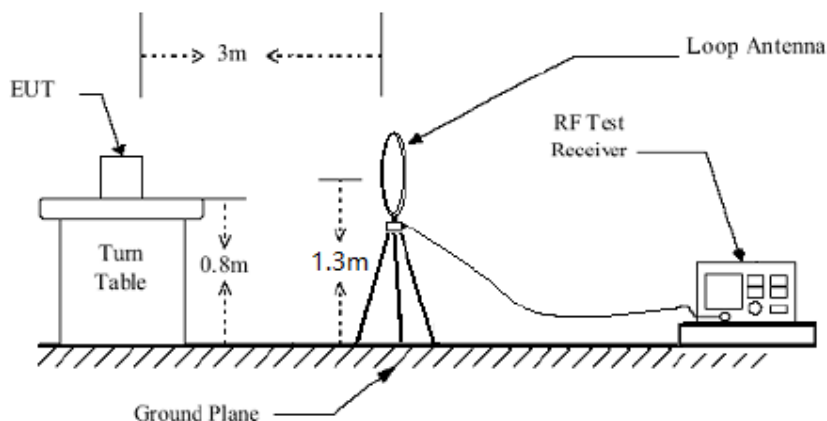
1. The resolution bandwidth of test receiver/spectrum analyzer is 200Hz for Quasi-peak detection (QP/AV) at fundamental frequency 9K-150KHz;
2. The resolution bandwidth of test receiver/spectrum analyzer is 9KHz for Quasi-peak detection (QP/AV) at fundamental frequency 150K-30MHz;
3. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at radiated spurious emission frequency 30MHz-1GHz.

4.2.4 DEVIATION FROM TEST STANDARD

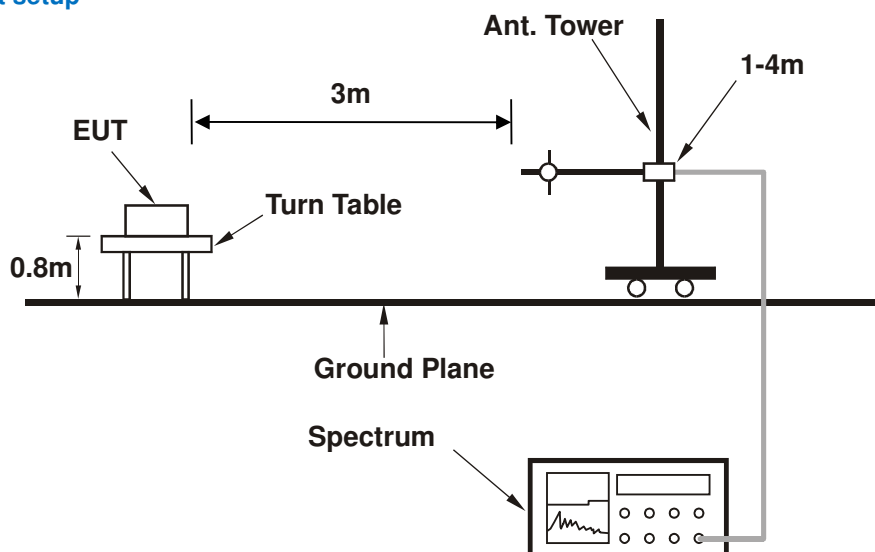
No deviation.

4.2.5 TEST SETUP

Below 30MHz test setup



Below 1GHz test setup



Note: For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT OPERATING CONDITIONS

- Turn on the EUT.
- The EUT tested in charging mode and standby mode respectively.

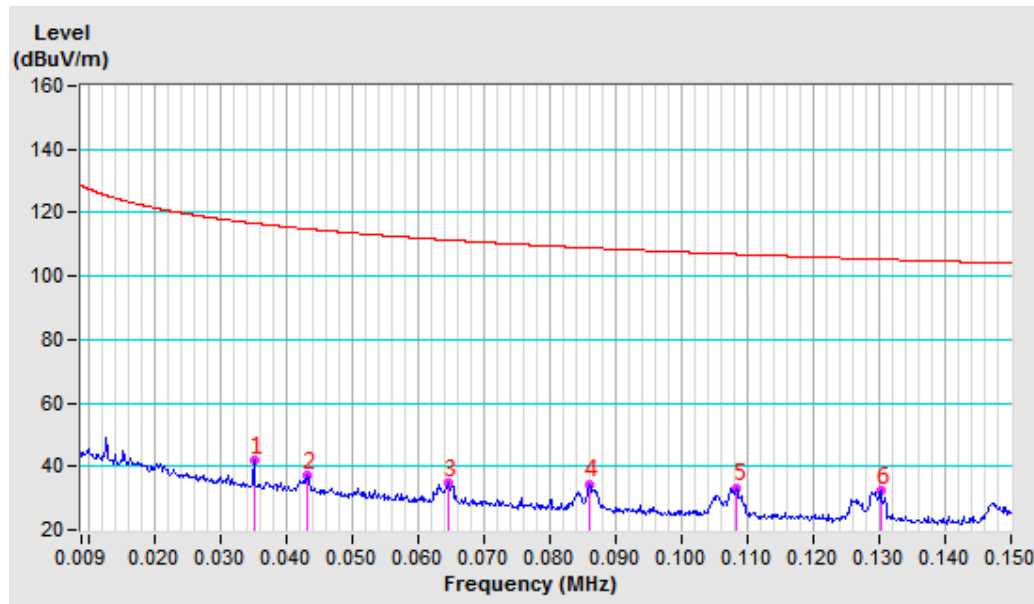


4.2.7 TEST RESULTS

Standby Mode

Test Mode	A	Frequency Range	9 kHz ~ 150 KHz
Test Voltage	AC 120V 60Hz	Detector Function	QP&AV
Environmental Conditions	25deg. C, 54% R	Tested By	Albert
Test date	2024-12-02		

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PARALLEL AT 3m								
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.0352AV	-11.55	53.23	41.68	116.67	-74.99	100	79
2	0.0433AV	-11.59	48.83	37.24	114.87	-77.63	100	184
3	0.0646AV	-11.59	46.43	34.84	111.39	-76.55	100	166
4	0.0862AV	-11.53	45.87	34.34	108.90	-74.56	100	166
5	0.1085QP	-11.47	44.66	33.19	106.90	-73.71	100	159
6	0.1303AV	-11.39	43.69	32.30	105.31	-73.01	100	159





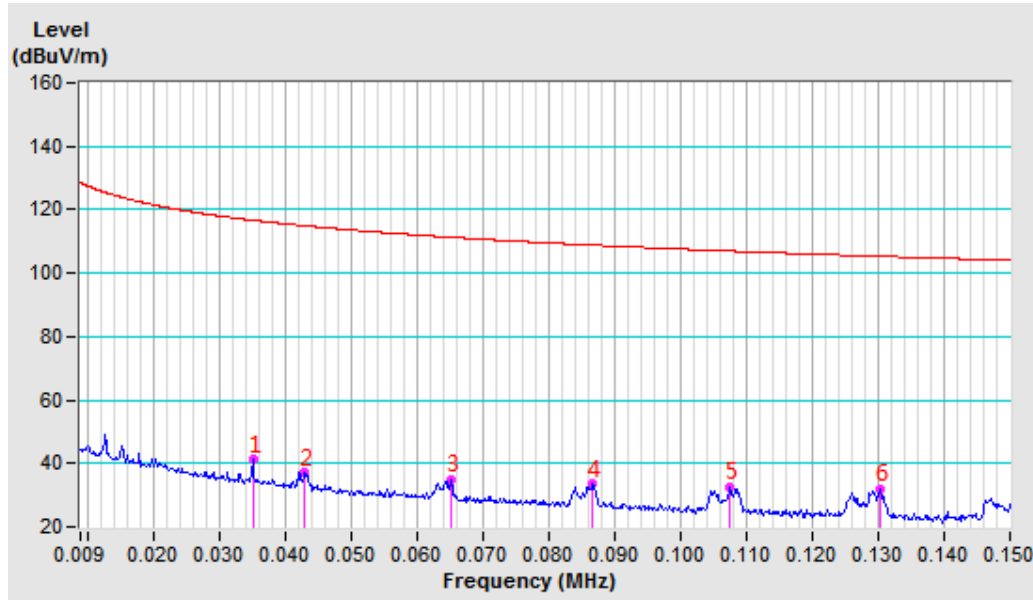
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Test Report No.: RF2411WDG0259

Test Mode	A	Frequency Range	9 kHz ~ 150KHz
Test Voltage	AC 120V 60Hz	Detector Function	QP&AV
Environmental Conditions	25deg. C, 54% R	Tested By	Albert
Test date	2024-12-02		

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PARALLEL AT 3m

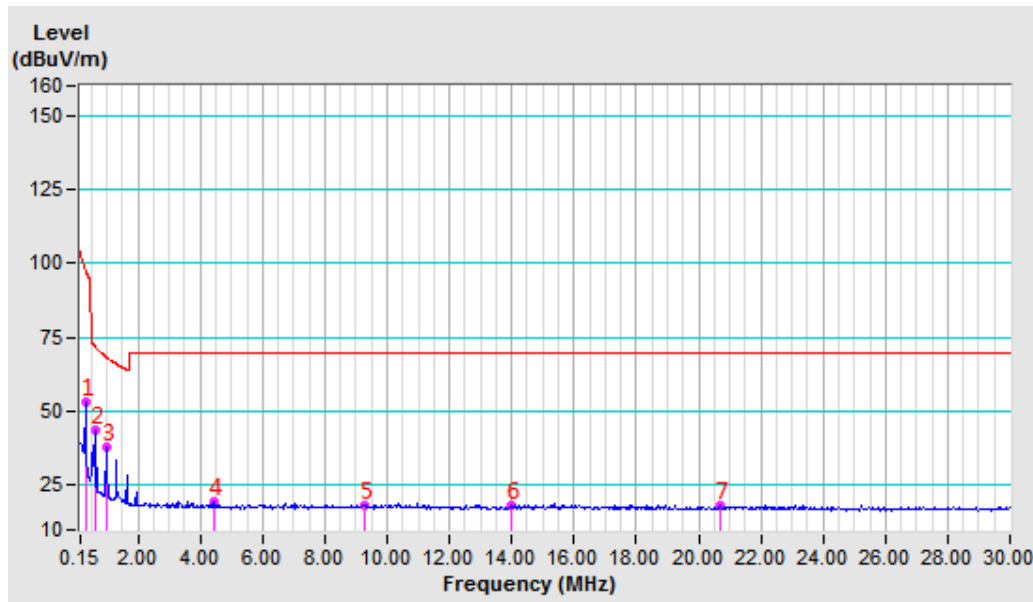
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.0352AV	-11.55	52.91	41.36	116.67	-75.31	100	22
2	0.0430AV	-11.59	48.65	37.06	114.93	-77.87	100	147
3	0.0651AV	-11.59	46.66	35.07	111.33	-76.26	100	136
4	0.0867AV	-11.53	44.88	33.35	108.84	-75.49	100	167
5	0.1076QP	-11.47	44.20	32.73	106.97	-74.24	100	158
6	0.1304AV	-11.39	43.41	32.02	105.30	-73.28	100	190





Test Mode	A	Frequency Range	150 kHz ~ 30MHz
Test Voltage	AC 120V 60Hz	Detector Function	QP&AV
Environmental Conditions	25deg. C, 54% R	Tested By	Albert
Test date	2024-12-02		

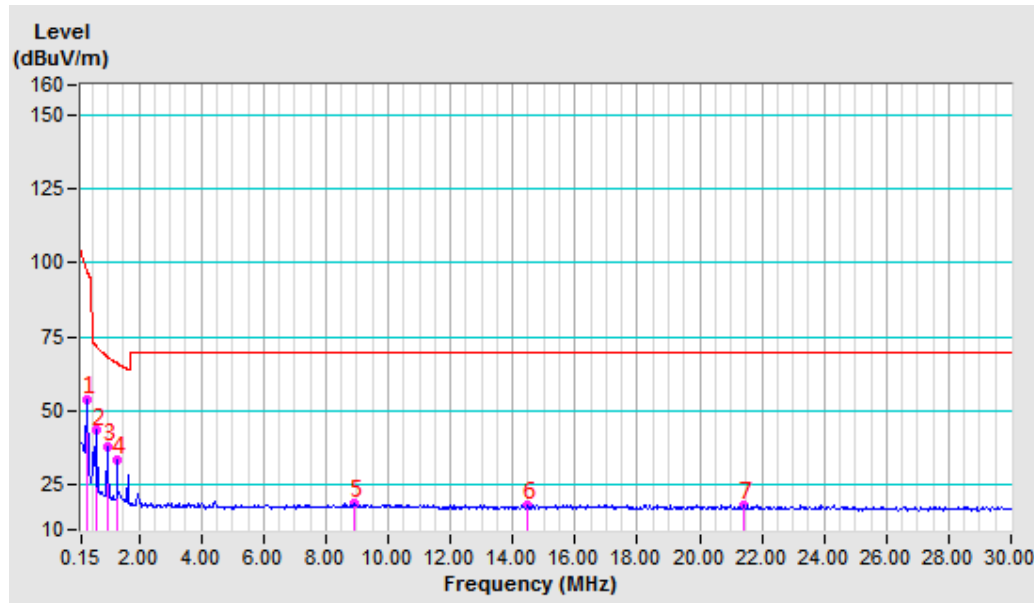
ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PERPENDICULAR AT 3m								
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.3261AV	-11.38	64.80	53.42	97.34	-43.92	100	200
2	0.6530QP	-11.49	54.96	43.47	71.54	-28.07	100	192
3	0.9784QP	-11.44	49.37	37.93	68.35	-30.42	100	203
4	4.4247QP	-11.23	30.72	19.49	69.54	-50.05	100	313
5	9.2457QP	-10.90	29.44	18.54	69.54	-51.00	100	260
6	13.9623QP	-10.66	28.85	18.19	69.54	-51.35	100	18
7	20.7132QP	-10.38	28.46	18.08	69.54	-51.46	100	29





Test Mode	A	Frequency Range	150 kHz ~ 30 MHz
Test Voltage	AC 120V 60Hz	Detector Function	QP&AV
Environmental Conditions	25deg. C, 54% R	Tested By	Albert
Test date	2024-12-02		

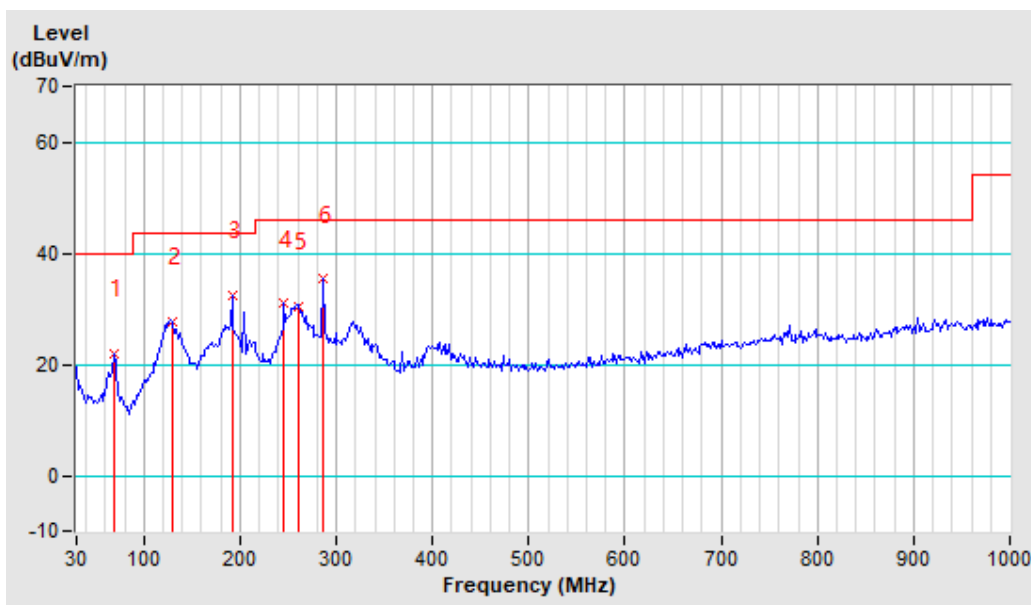
ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PERPENDICULAR AT 3m								
No	Freq. (MHz)	Correctio n Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.3261AV	-11.38	65.10	53.72	97.34	-43.62	100	188
2	0.6530QP	-11.49	54.88	43.39	71.54	-28.15	100	192
3	0.9784QP	-11.44	49.32	37.88	68.35	-30.47	100	183
4	1.3053QP	-11.45	44.94	33.49	66.08	-32.59	100	194
5	8.9040QP	-10.91	29.74	18.83	69.54	-50.71	100	284
6	14.4727QP	-10.62	29.17	18.55	69.54	-50.99	100	360
7	21.4311QP	-10.34	28.44	18.10	69.54	-51.44	100	151



Test Mode	A	Frequency Range	30MHz ~ 1000MHz
Test Voltage	AC 120V 60Hz	Detector Function	Quasi-Peak (QP)
Environmental Conditions	25deg. C, 56% RH	Tested By	Ludius
Test date	2024-12-04		

Antenna Polarity & Test Distance: Horizontal At 3m								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	68.86	-19.15	40.95	21.80	40.00	-18.20	228	141
2	129.49	-18.54	46.22	27.68	43.50	-15.82	212	126
3	191.67	-19.42	51.89	32.47	43.50	-11.03	155	69
4	246.07	-17.50	48.38	30.88	46.00	-15.12	174	88
5	261.62	-16.87	47.18	30.31	46.00	-15.69	190	104
6	286.49	-15.91	51.19	35.28	46.00	-10.72	137	52

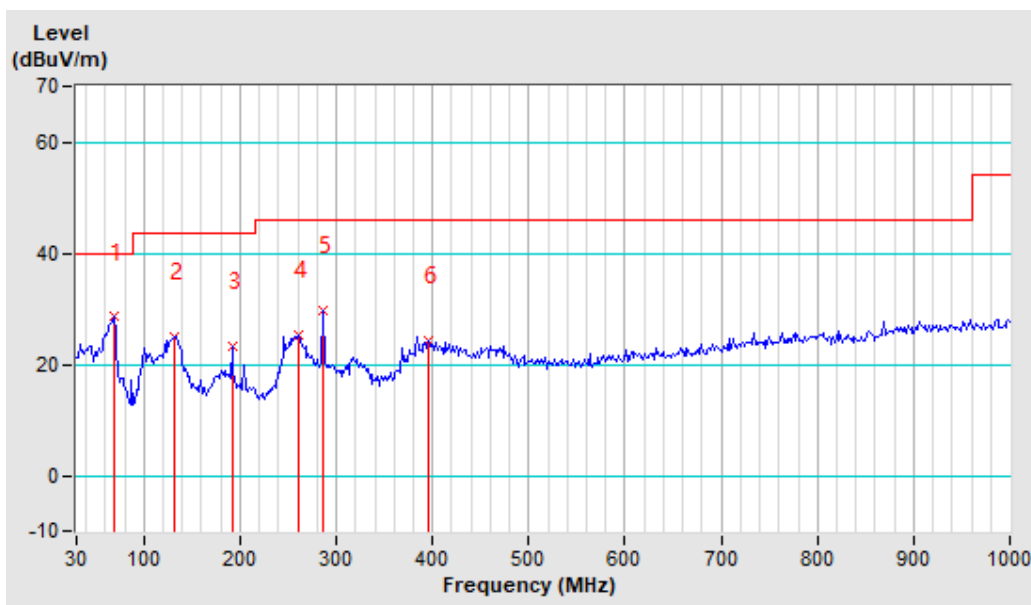
REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
2. Negative sign (-) in the margin column signify levels below the limit.
3. Frequency range scanned: 30-1000MHz.
4. Only emissions significantly above equipment noise floor are reported.



Test Mode	A	Frequency Range	30MHz ~ 1000MHz
Test Voltage	AC 120V 60Hz	Detector Function	Quasi-Peak (QP)
Environmental Conditions	25deg. C, 56% RH	Tested By	Ludius
Test date	2024-12-04		

Antenna Polarity & Test Distance: Vertical At 3m								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	68.86	-19.15	47.70	28.55	40.00	-11.45	225	138
2	131.04	-18.36	43.39	25.03	43.50	-18.47	196	109
3	191.67	-19.42	42.65	23.23	43.50	-20.27	181	94
4	261.62	-16.87	42.17	25.30	46.00	-20.70	166	80
5	286.49	-15.91	45.64	29.73	46.00	-16.27	147	61
6	395.30	-12.98	37.33	24.35	46.00	-21.65	245	157

REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
2. Negative sign (-) in the margin column signify levels below the limit.
3. Frequency range scanned: 30-1000MHz.
4. Only emissions significantly above equipment noise floor are reported.





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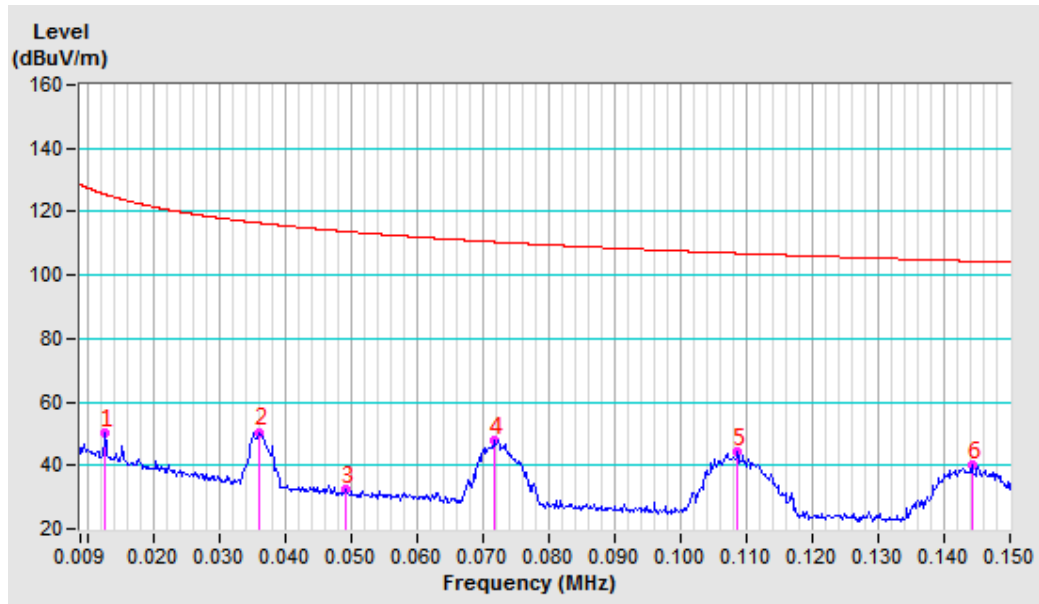
Test Report No.: RF2411WDG0259

Charging Mode

Test Mode	B	Frequency Range	9 kHz ~ 150 KHz
Test Voltage	AC 120V 60Hz	Detector Function	QP&AV
Environmental Conditions	25deg. C, 56% R	Tested By	Albert
Test Date	2024-12-02		

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PARALLEL AT 3m

No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.0128	-10.38	60.42	50.04	125.47	-75.43	130	280
2	0.0362	-11.55	62.07	50.52	116.43	-65.91	130	157
3	0.0493	-11.63	43.80	32.17	113.74	-81.57	130	239
4	0.0719	-11.57	59.28	47.71	110.47	-62.76	130	154
5	0.1087	-11.47	55.51	44.04	106.88	-62.84	130	157
6	0.1442	-11.36	51.52	40.16	104.42	-64.26	130	157

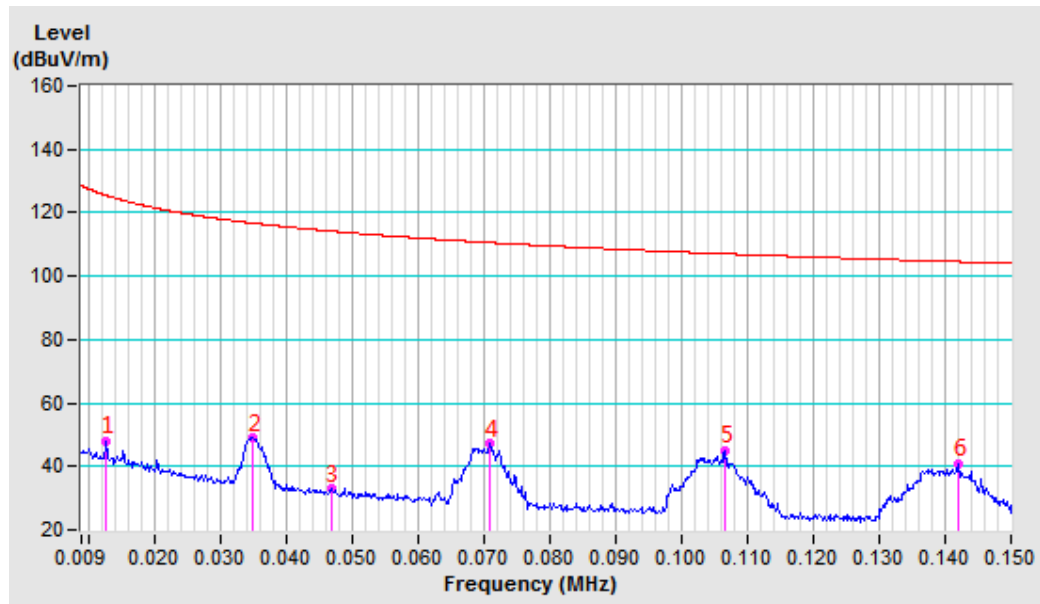




Test Mode	B	Frequency Range	9 kHz ~ 150 KHz
Test Voltage	AC 120V 60Hz	Detector Function	QP&AV
Environmental Conditions	25deg. C, 56% R	Tested By	Albert
Test Date	2024-12-02		

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PARALLEL AT 3m

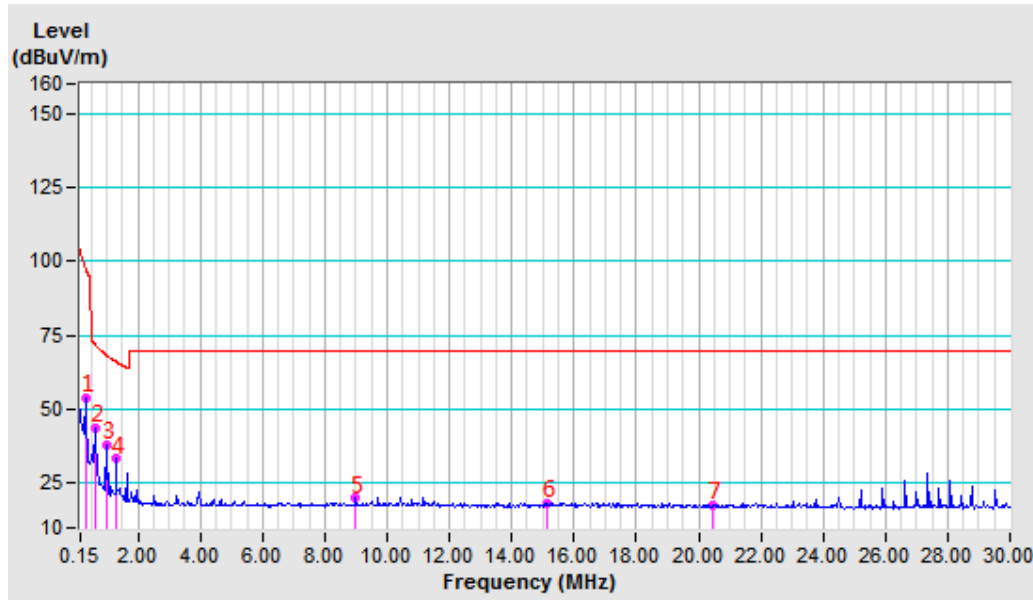
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.0128	-10.38	58.43	48.05	125.46	-77.41	130	324
2	0.0350	-11.54	60.53	48.99	116.73	-67.74	130	171
3	0.0468	-11.61	44.59	32.98	114.19	-81.21	130	273
4	0.0710	-11.58	58.67	47.09	110.57	-63.48	130	158
5	0.1065	-11.47	56.60	45.13	107.06	-61.93	130	158
6	0.1419	-11.36	52.22	40.86	104.56	-63.70	130	158





Test Mode	B	Frequency Range	150 kHz ~ 30 MHz
Test Voltage	AC 120V 60Hz	Detector Function	QP&AV
Environmental Conditions	25deg. C, 56% R	Tested By	Albert
Test Date	2024-12-02		

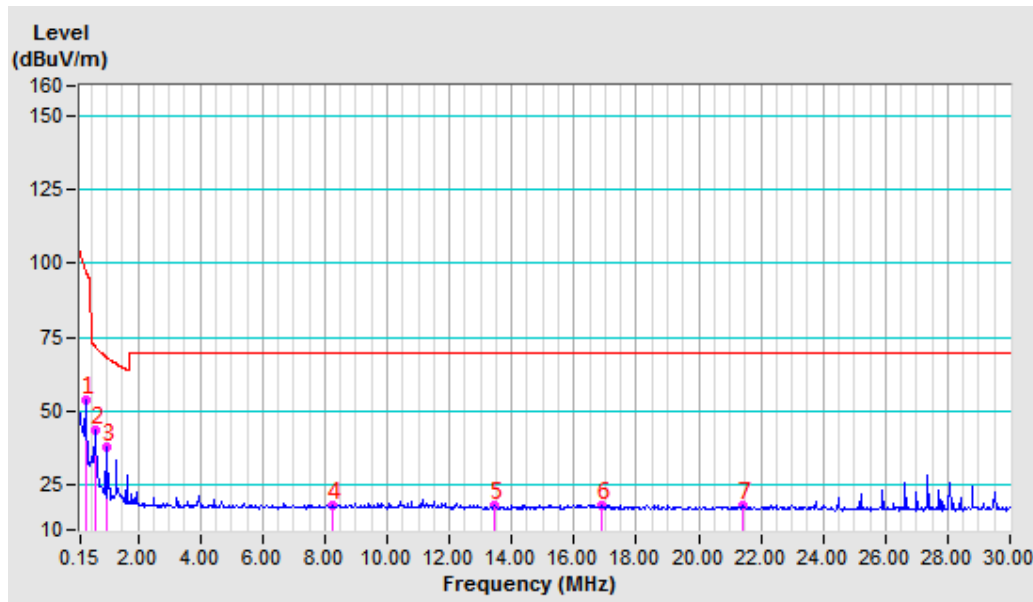
ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PERPENDICULAR AT 3m								
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.3261	-11.38	65.31	53.93	97.34	-43.41	130	180
2	0.6530	-11.49	55.01	43.52	71.54	-28.02	130	196
3	0.9784	-11.44	49.59	38.15	68.35	-30.20	130	199
4	1.3053	-11.45	44.71	33.26	66.08	-32.82	130	184
5	8.9995	-10.91	30.83	19.92	69.54	-49.62	130	223
6	15.1205	-10.57	28.95	18.38	69.54	-51.16	130	254
7	20.4699	-10.40	28.26	17.86	69.54	-51.68	130	15





Test Mode	B	Frequency Range	150 kHz ~ 30 MHz
Test Voltage	AC 120V 60Hz	Detector Function	QP&AV
Environmental Conditions	25deg. C, 56% R	Tested By	Albert
Test Date	2024-12-02		

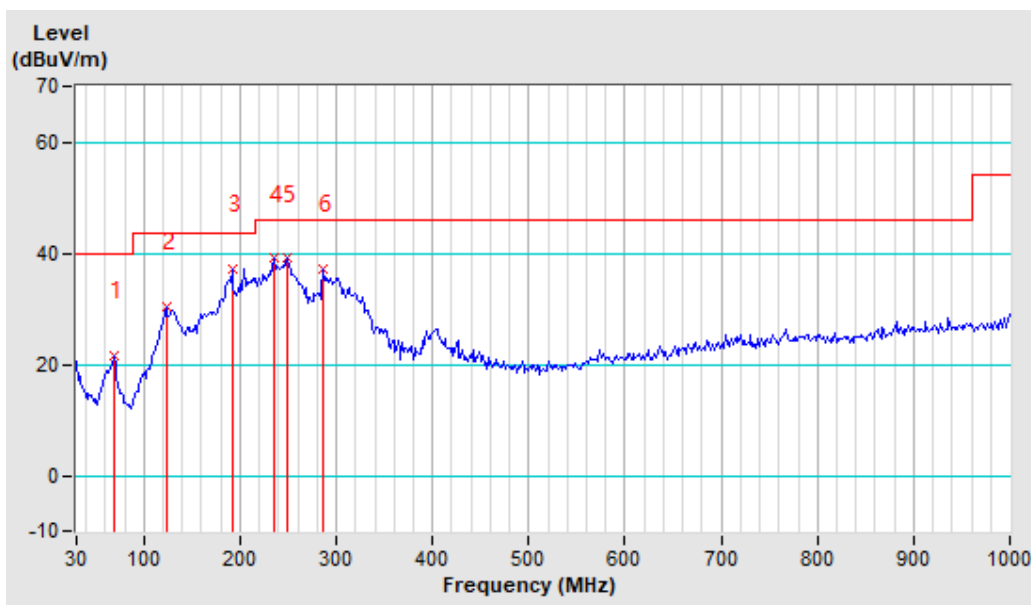
ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PERPENDICULAR AT 3m								
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.3261	-11.38	65.38	54.00	97.34	-43.34	130	182
2	0.6530	-11.49	55.15	43.66	71.54	-27.88	130	196
3	0.9784	-11.44	49.47	38.03	68.35	-30.32	130	196
4	8.2771	-10.95	29.33	18.38	69.54	-51.16	130	287
5	13.4384	-10.73	28.85	18.12	69.54	-51.42	130	224
6	16.9146	-10.44	28.82	18.38	69.54	-51.16	130	284
7	21.4058	-10.34	28.60	18.26	69.54	-51.28	130	89



Test Mode	B	Frequency Range	30MHz ~ 1000MHz
Test Voltage	AC 120V 60Hz	Detector Function	Quasi-Peak (QP)
Environmental Conditions	25deg. C, 56% RH	Tested By	Ludius
Test date	2024-12-04		

Antenna Polarity & Test Distance: Horizontal At 3m								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	68.86	-19.15	40.65	21.50	40.00	-18.50	130	47
2	123.27	-19.39	49.76	30.37	43.50	-13.13	148	64
3	191.67	-19.42	56.53	37.11	43.50	-6.39	197	113
4	235.19	-18.03	57.02	38.99	46.00	-7.01	234	149
5	249.18	-17.36	56.36	39.00	46.00	-7.00	164	80
6	286.49	-15.91	53.14	37.23	46.00	-8.77	214	130

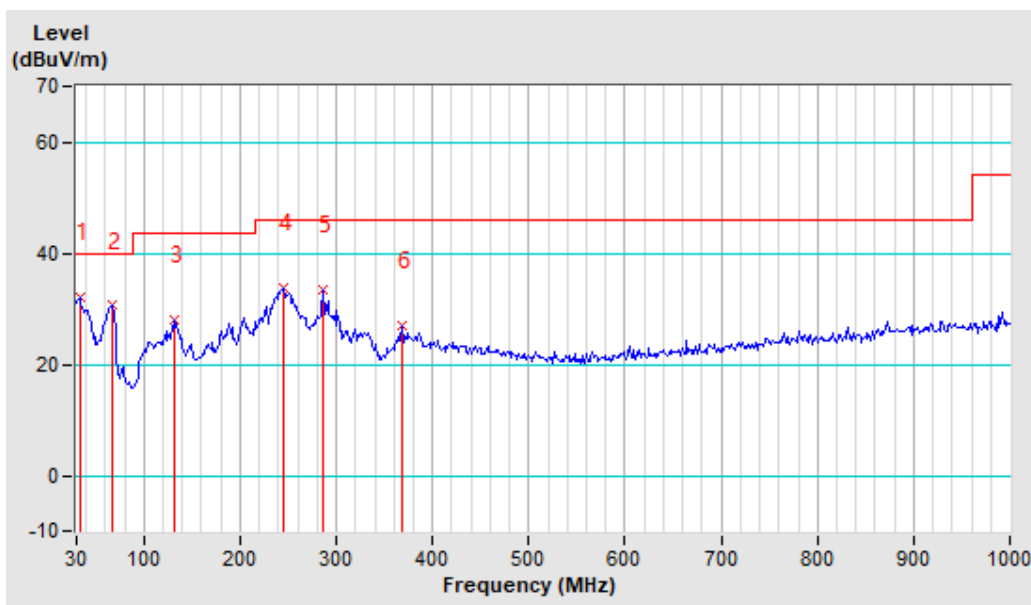
REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
2. Negative sign (-) in the margin column signify levels below the limit.
3. Frequency range scanned: 30-1000MHz.
4. Only emissions significantly above equipment noise floor are reported.



Test Mode	B	Frequency Range	30MHz ~ 1000MHz
Test Voltage	AC 120V 60Hz	Detector Function	Quasi-Peak (QP)
Environmental Conditions	25deg. C, 56% RH	Tested By	Ludius
Test date	2024-12-04		

Antenna Polarity & Test Distance: Vertical At 3m								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	33.11	-19.13	51.26	32.13	40.00	-7.87	217	130
2	67.31	-18.82	49.36	30.54	40.00	-9.46	149	62
3	132.60	-18.18	46.24	28.06	43.50	-15.44	164	78
4	246.07	-17.50	51.26	33.76	46.00	-12.24	180	93
5	286.49	-15.91	49.46	33.55	46.00	-12.45	194	107
6	368.88	-13.69	40.60	26.91	46.00	-19.09	240	153

REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
2. Negative sign (-) in the margin column signify levels below the limit.
3. Frequency range scanned: 30-1000MHz.
4. Only emissions significantly above equipment noise floor are reported.

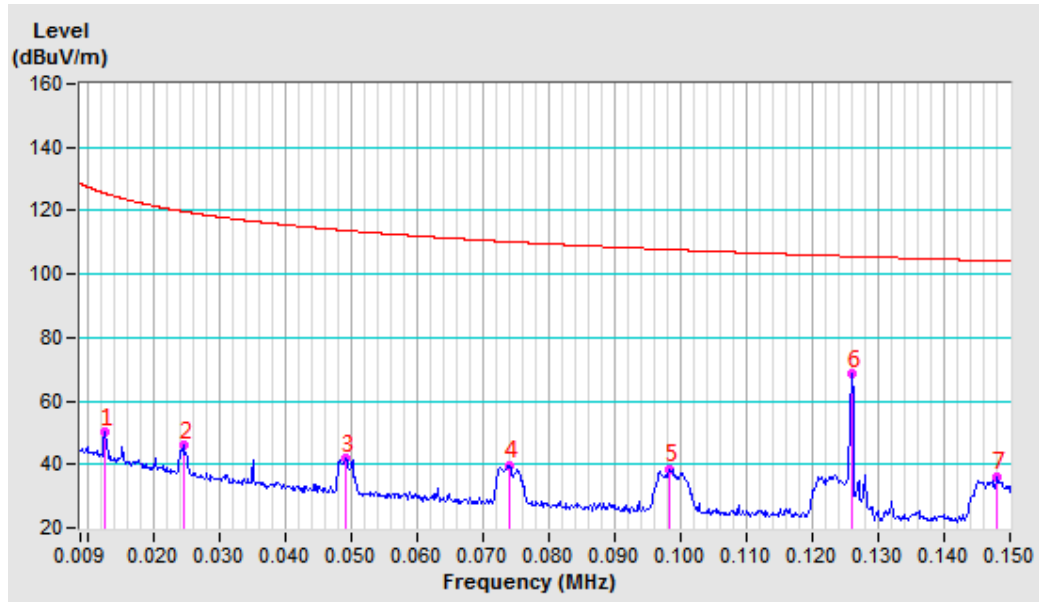




Test Mode	C	Frequency Range	9 kHz ~ 150 KHz
Test Voltage	AC 120V 60Hz	Detector Function	QP&AV
Environmental Conditions	25deg. C, 56% R	Tested By	Albert
Test Date	2024-12-02		

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PARALLEL AT 3m

No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.0128	-10.38	60.58	50.20	125.46	-75.26	130	313
2	0.0247	-11.15	57.13	45.98	119.75	-73.77	130	153
3	0.0493	-11.63	53.43	41.80	113.74	-71.94	130	153
4	0.0741	-11.57	51.33	39.76	110.21	-70.45	130	185
5	0.0984	-11.49	49.95	38.46	107.74	-69.28	130	185
6	0.1259	-11.41	80.00	68.59	105.60	-37.01	130	66
7	0.1479	-11.35	47.47	36.12	104.20	-68.08	130	153





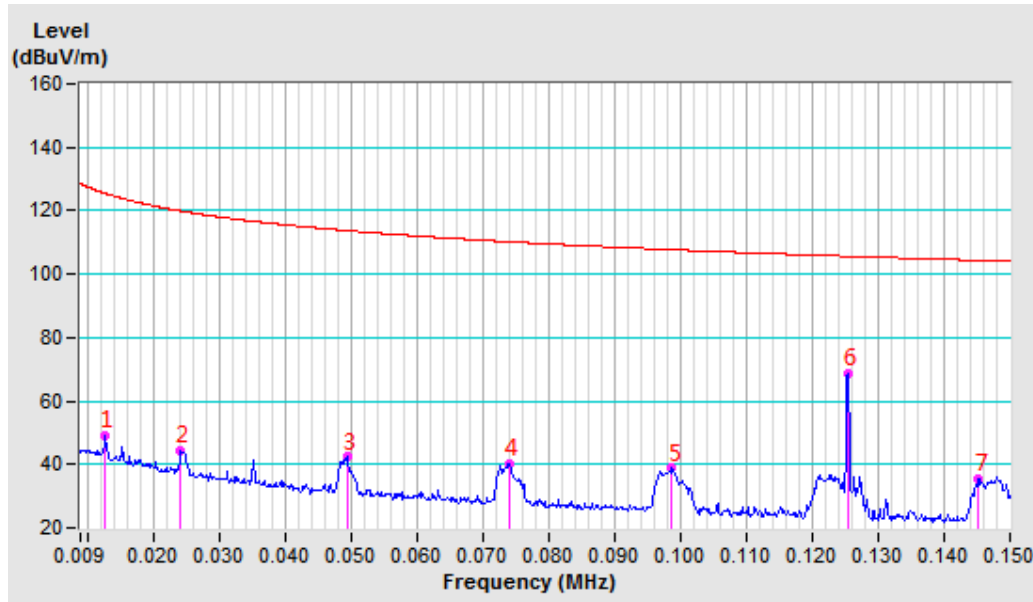
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Test Report No.: RF2411WDG0259

Test Mode	C	Frequency Range	9 kHz ~ 150 KHz
Test Voltage	AC 120V 60Hz	Detector Function	QP&AV
Environmental Conditions	25deg. C, 56% R	Tested By	Albert
Test Date	2024-12-02		

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PARALLEL AT 3m

No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.0128	-10.38	59.54	49.16	125.47	-76.31	130	99
2	0.0242	-11.12	55.64	44.52	119.92	-75.40	130	177
3	0.0495	-11.63	54.12	42.49	113.71	-71.22	130	162
4	0.0742	-11.57	51.84	40.27	110.20	-69.93	130	162
5	0.0988	-11.49	50.43	38.94	107.71	-68.77	130	179
6	0.1254	-11.41	80.16	68.75	105.63	-36.88	130	62
7	0.1453	-11.35	46.99	35.64	104.36	-68.72	130	178



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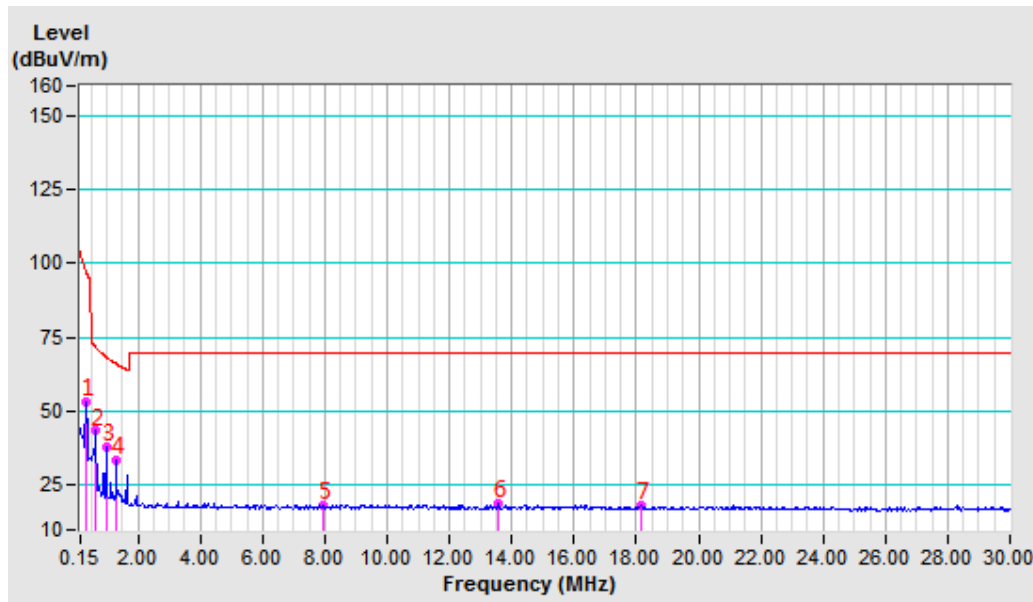


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Test Report No.: RF2411WDG0259

Test Mode	C	Frequency Range	150 kHz ~ 30 MHz
Test Voltage	AC 120V 60Hz	Detector Function	QP&AV
Environmental Conditions	25deg. C, 56% R	Tested By	Albert
Test Date	2024-12-02		

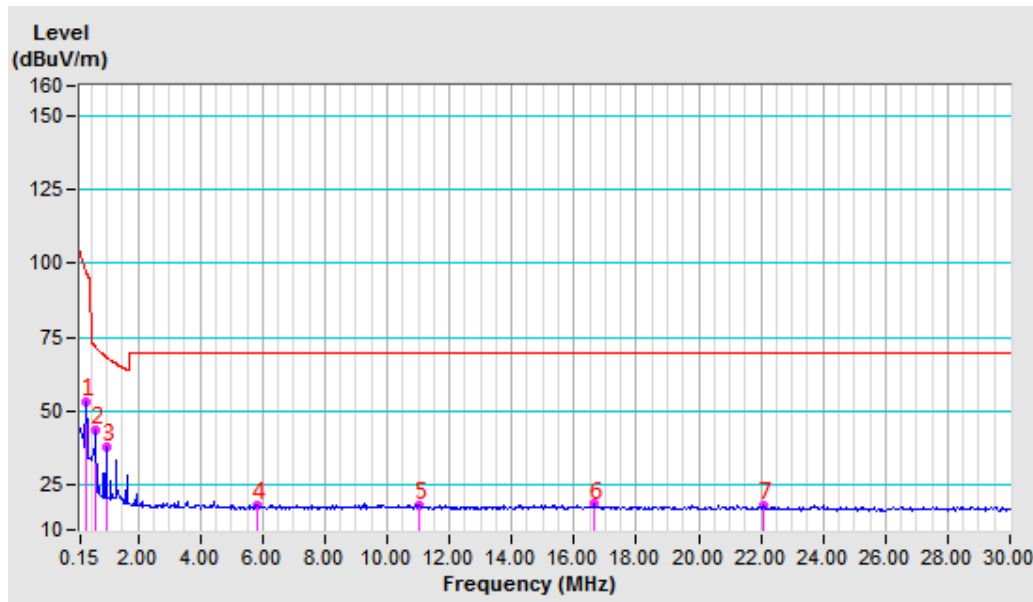
ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PERPENDICULAR AT 3m								
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.3261	-11.38	64.81	53.43	97.34	-43.91	130	194
2	0.6530	-11.49	54.86	43.37	71.54	-28.17	130	188
3	0.9784	-11.44	49.38	37.94	68.35	-30.41	130	213
4	1.3053	-11.45	44.74	33.29	66.08	-32.79	130	186
5	7.9592	-10.96	29.27	18.31	69.54	-51.23	130	164
6	13.5608	-10.71	29.63	18.92	69.54	-50.62	130	40
7	18.1475	-10.37	28.63	18.26	69.54	-51.28	130	49





Test Mode	C	Frequency Range	150 kHz ~ 30 MHz
Test Voltage	AC 120V 60Hz	Detector Function	QP&AV
Environmental Conditions	25deg. C, 56% R	Tested By	Albert
Test Date	2024-12-02		

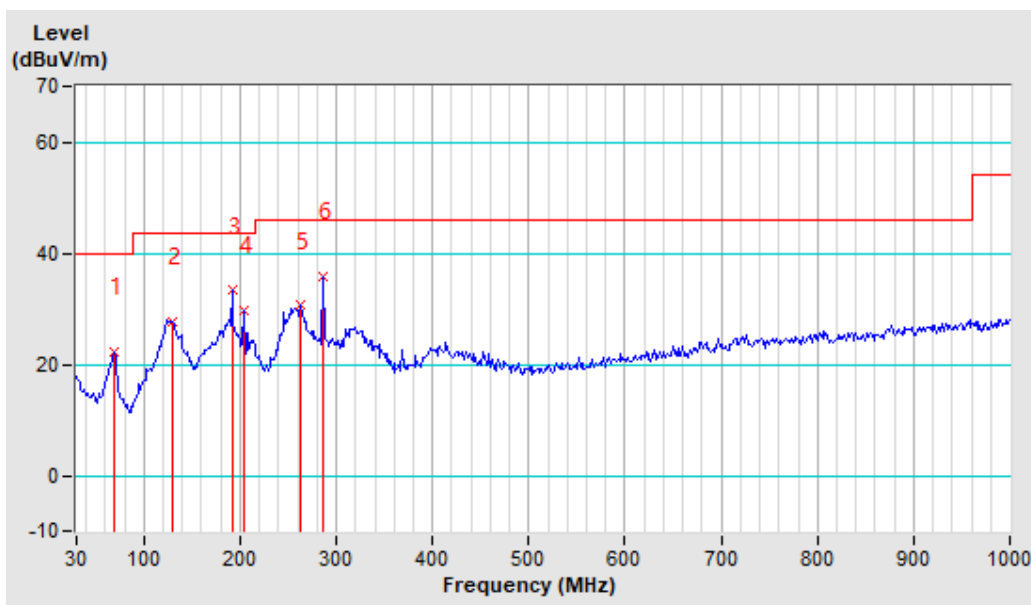
ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PERPENDICULAR AT 3m								
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.3261	-11.38	64.90	53.52	97.34	-43.82	130	186
2	0.6530	-11.49	55.10	43.61	71.54	-27.93	130	197
3	0.9784	-11.44	49.36	37.92	68.35	-30.43	130	199
4	5.8457	-11.15	29.59	18.44	69.54	-51.10	130	29
5	11.0145	-10.89	29.37	18.48	69.54	-51.06	130	360
6	16.6609	-10.47	29.11	18.64	69.54	-50.90	130	288
7	22.0759	-10.30	28.33	18.03	69.54	-51.51	130	66



Test Mode	C	Frequency Range	30MHz ~ 1000MHz
Test Voltage	AC 120V 60Hz	Detector Function	Quasi-Peak (QP)
Environmental Conditions	25deg. C, 56% RH	Tested By	Ludius
Test date	2024-12-04		

Antenna Polarity & Test Distance: Horizontal At 3m								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	68.86	-19.15	41.33	22.18	40.00	-17.82	251	195
2	129.49	-18.54	46.11	27.57	43.50	-15.93	212	234
3	191.67	-19.42	52.66	33.24	43.50	-10.26	168	278
4	204.10	-19.51	49.22	29.71	43.50	-13.79	190	256
5	263.17	-16.81	47.33	30.52	46.00	-15.48	233	213
6	286.49	-15.91	51.61	35.70	46.00	-10.30	147	298

REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
2. Negative sign (-) in the margin column signify levels below the limit.
3. Frequency range scanned: 30-1000MHz.
4. Only emissions significantly above equipment noise floor are reported.

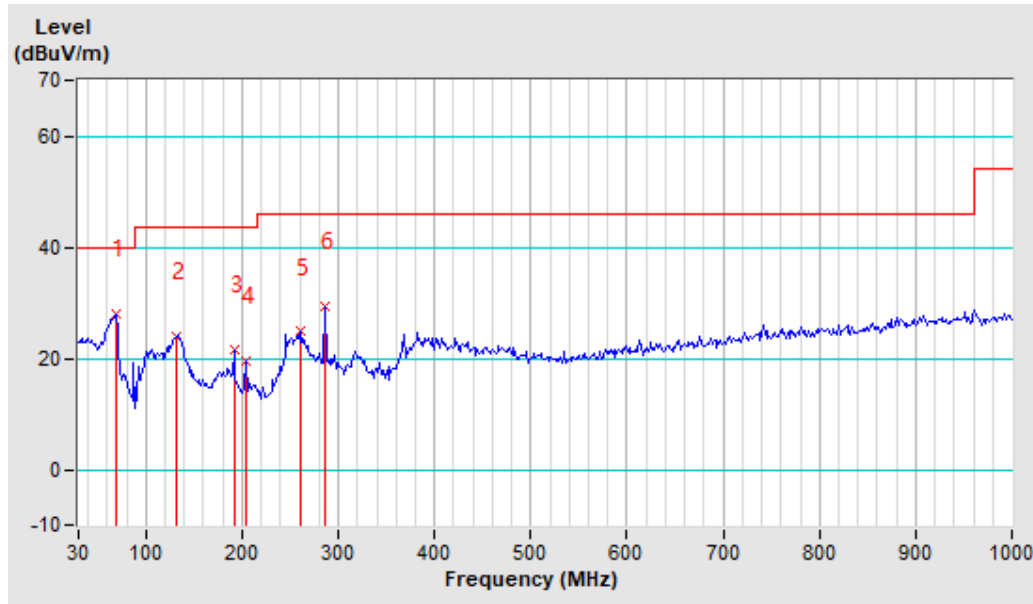




Test Mode	C	Frequency Range	30MHz ~ 1000MHz
Test Voltage	AC 120V 60Hz	Detector Function	Quasi-Peak (QP)
Environmental Conditions	25deg. C, 56% RH	Tested By	Ludius
Test date	2024-12-04		

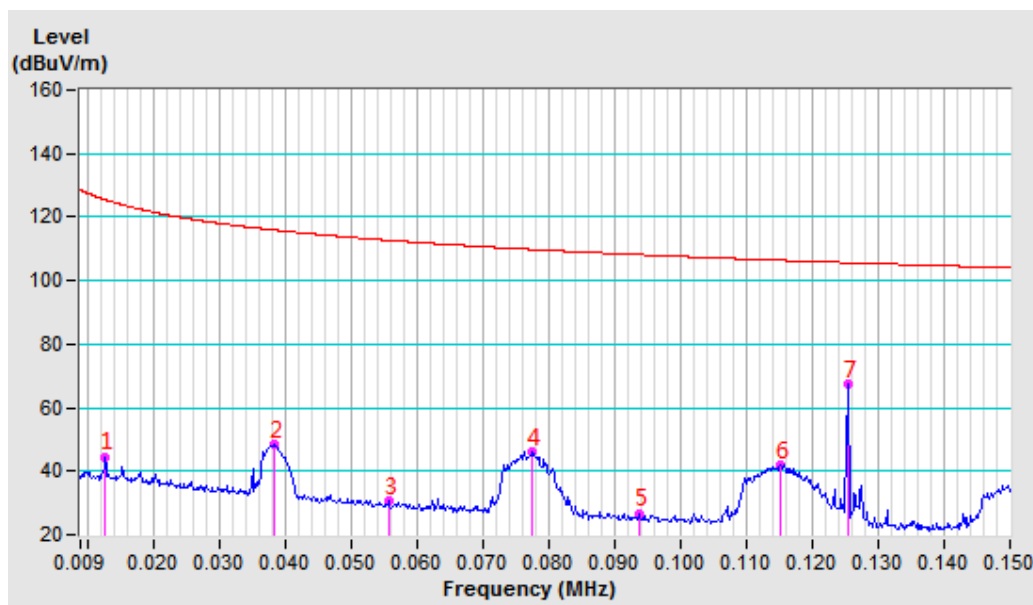
Antenna Polarity & Test Distance: Vertical At 3m								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	68.86	-19.15	47.20	28.05	40.00	-11.95	195	111
2	132.60	-18.18	42.17	23.99	43.50	-19.51	287	202
3	191.67	-19.42	41.04	21.62	43.50	-21.88	326	241
4	204.10	-19.51	39.14	19.63	43.50	-23.87	369	283
5	261.62	-16.87	41.62	24.75	46.00	-21.25	246	161
6	286.49	-15.91	45.28	29.37	46.00	-16.63	216	131

REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
2. Negative sign (-) in the margin column signify levels below the limit.
3. Frequency range scanned: 30-1000MHz.
4. Only emissions significantly above equipment noise floor are reported.



Test Mode	D	Frequency Range	9 kHz ~ 150 KHz
Test Voltage	AC 120V 60Hz	Detector Function	QP&AV
Environmental Conditions	25deg. C, 56% R	Tested By	Albert
Test Date	2024-12-02		

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PARALLEL AT 3m								
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.0128	-10.38	54.94	44.56	125.47	-80.91	130	85
2	0.0383	-11.56	59.96	48.40	115.94	-67.54	130	160
3	0.0559	-11.61	42.27	30.66	112.66	-82.00	130	126
4	0.0775	-11.56	57.59	46.03	109.82	-63.79	130	161
5	0.0938	-11.51	38.08	26.57	108.16	-81.59	130	351
6	0.1151	-11.44	53.22	41.78	106.38	-64.60	130	160
7	0.1254	-11.41	78.73	67.32	105.64	-38.32	130	60



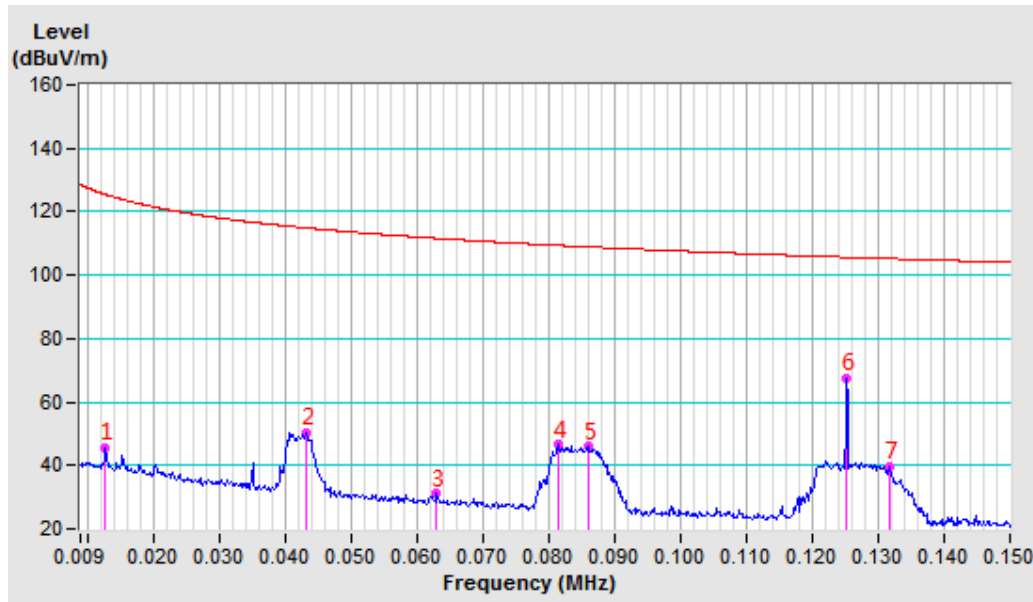


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Test Report No.: RF2411WDG0259

Test Mode	D	Frequency Range	9 kHz ~ 150 KHz
Test Voltage	AC 120V 60Hz	Detector Function	QP&AV
Environmental Conditions	25deg. C, 56% R	Tested By	Albert
Test Date	2024-12-02		

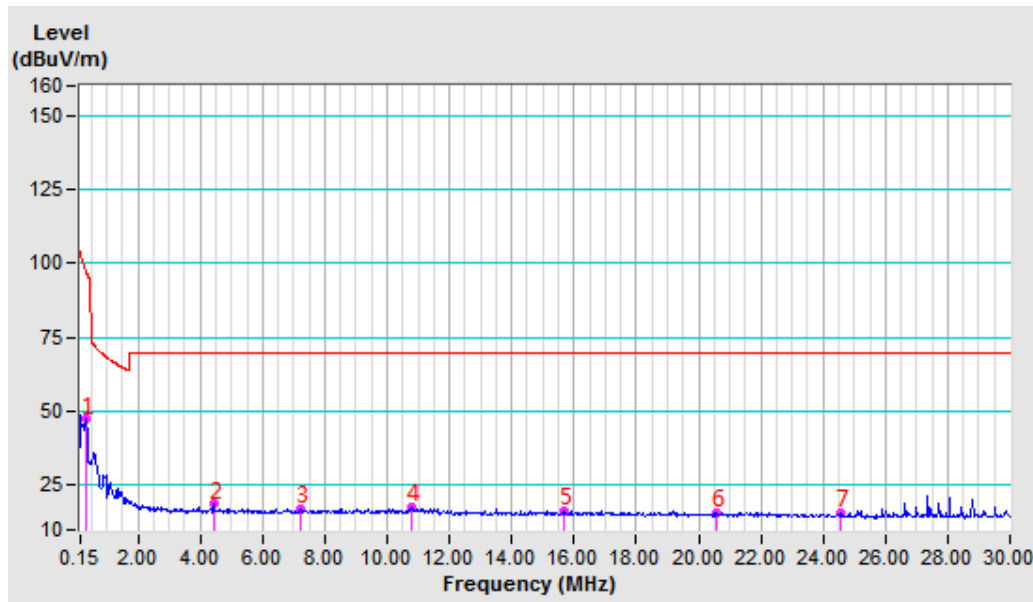
ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PARALLEL AT 3m								
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.0128	-10.38	55.98	45.60	125.46	-79.86	130	133
2	0.0433	-11.59	61.97	50.38	114.87	-64.49	130	160
3	0.0630	-11.59	42.68	31.09	111.61	-80.52	130	189
4	0.0815	-11.55	58.10	46.55	109.38	-62.83	130	154
5	0.0860	-11.53	57.51	45.98	108.91	-62.93	130	165
6	0.1252	-11.41	79.02	67.61	105.65	-38.04	130	56
7	0.1317	-11.39	51.06	39.67	105.21	-65.54	130	156





Test Mode	D	Frequency Range	150 kHz ~ 30 MHz
Test Voltage	AC 120V 60Hz	Detector Function	QP&AV
Environmental Conditions	25deg. C, 56% R	Tested By	Albert
Test Date	2024-12-02		

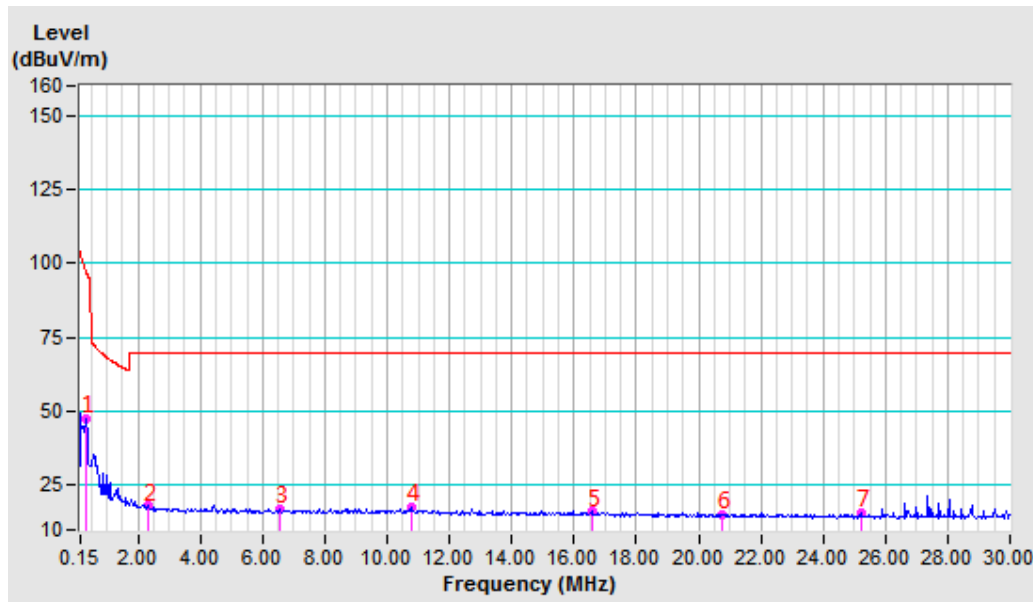
ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PERPENDICULAR AT 3m								
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.3261	-11.38	58.63	47.25	97.34	-50.09	130	296
2	4.4247	-11.23	29.86	18.63	69.54	-50.91	130	121
3	7.2099	-11.03	28.17	17.14	69.54	-52.40	130	177
4	10.7995	-10.89	28.65	17.76	69.54	-51.78	130	253
5	15.6653	-10.53	26.75	16.22	69.54	-53.32	130	0
6	20.5833	-10.39	26.37	15.98	69.54	-53.56	130	296
7	24.5506	-10.20	25.74	15.54	69.54	-54.00	130	288





Test Mode	D	Frequency Range	150 kHz ~ 30 MHz
Test Voltage	AC 120V 60Hz	Detector Function	QP&AV
Environmental Conditions	25deg. C, 56% R	Tested By	Albert
Test Date	2024-12-02		

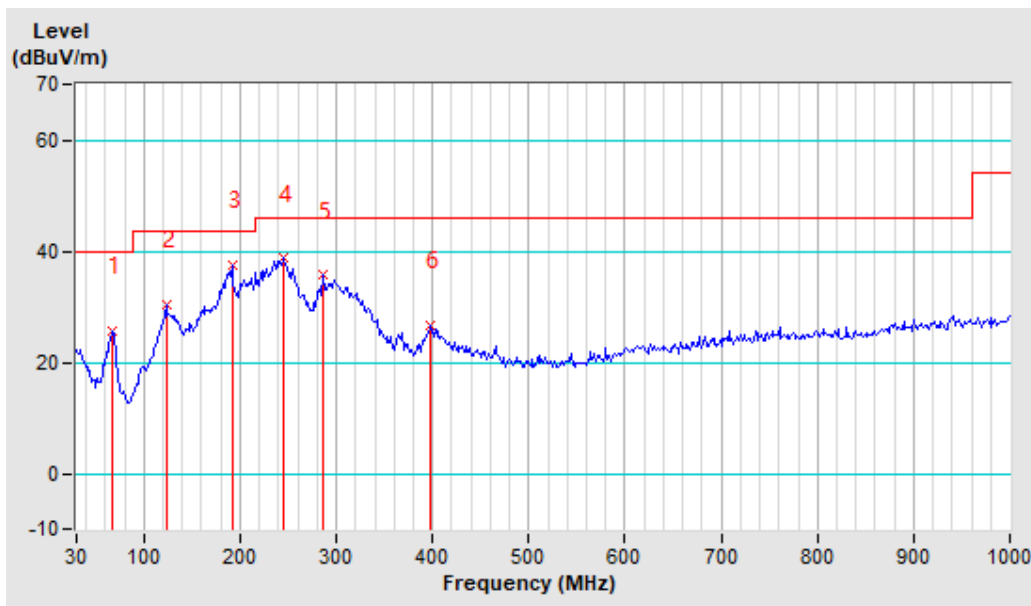
ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PERPENDICULAR AT 3m								
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.3261	-11.38	58.90	47.52	97.34	-49.82	130	302
2	2.3023	-11.46	29.45	17.99	69.54	-51.55	130	139
3	6.5830	-11.09	27.96	16.87	69.54	-52.67	130	122
4	10.7995	-10.89	28.57	17.68	69.54	-51.86	130	234
5	16.5713	-10.47	26.53	16.06	69.54	-53.48	130	314
6	20.7565	-10.37	25.68	15.31	69.54	-54.23	130	360
7	25.1999	-10.22	26.17	15.95	69.54	-53.59	130	346



Test Mode	D	Frequency Range	30MHz ~ 1000MHz
Test Voltage	AC 120V 60Hz	Detector Function	Quasi-Peak (QP)
Environmental Conditions	25deg. C, 56% RH	Tested By	Ludius
Test date	2024-12-04		

Antenna Polarity & Test Distance: Horizontal At 3m								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	67.31	-18.82	44.52	25.70	40.00	-14.30	219	100
2	123.27	-19.39	49.78	30.39	43.50	-13.11	186	213
3	191.67	-19.42	56.86	37.44	43.50	-6.06	126	25
4	246.07	-17.50	56.16	38.66	46.00	-7.34	141	256
5	286.49	-15.91	51.57	35.66	46.00	-10.34	155	100
6	398.41	-12.89	39.64	26.75	46.00	-19.25	170	179

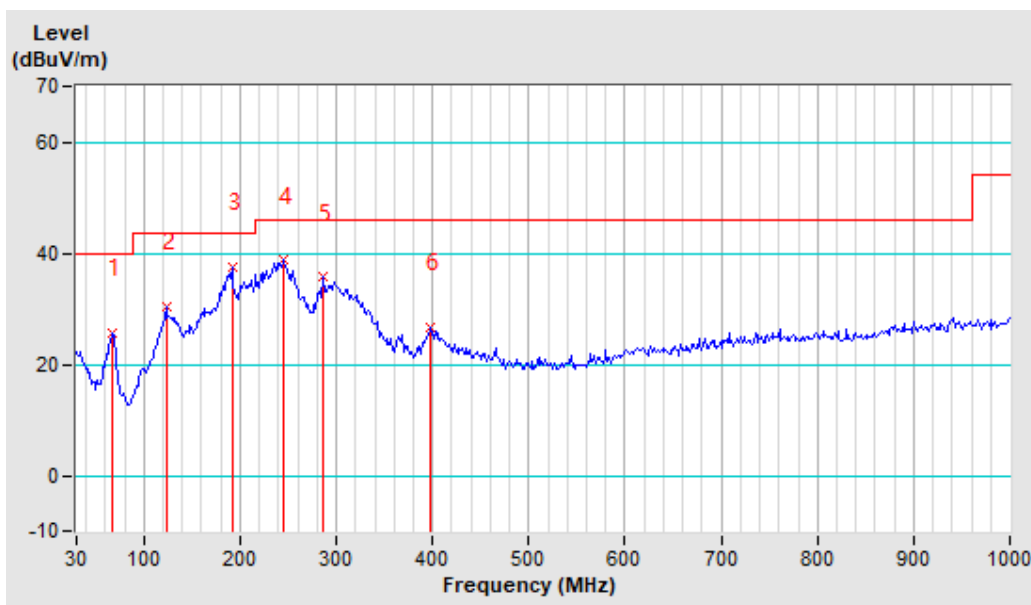
REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
2. Negative sign (-) in the margin column signify levels below the limit.
3. Frequency range scanned: 30-1000MHz.
4. Only emissions significantly above equipment noise floor are reported.



Test Mode	D	Frequency Range	30MHz ~ 1000MHz
Test Voltage	AC 120V 60Hz	Detector Function	Quasi-Peak (QP)
Environmental Conditions	25deg. C, 56% RH	Tested By	Ludius
Test date	2024-12-04		

Antenna Polarity & Test Distance: Vertical At 3m								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	33.11	-19.13	51.55	32.42	40.00	-7.58	100	228
2	65.75	-18.50	49.19	30.69	40.00	-9.31	100	261
3	132.60	-18.18	44.70	26.52	43.50	-16.98	100	321
4	225.87	-18.46	48.99	30.53	46.00	-15.47	100	306
5	244.52	-17.58	50.28	32.70	46.00	-13.30	100	292
6	286.49	-15.91	49.58	33.67	46.00	-12.33	100	277

REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
2. Negative sign (-) in the margin column signify levels below the limit.
3. Frequency range scanned: 30-1000MHz.
4. Only emissions significantly above equipment noise floor are reported.

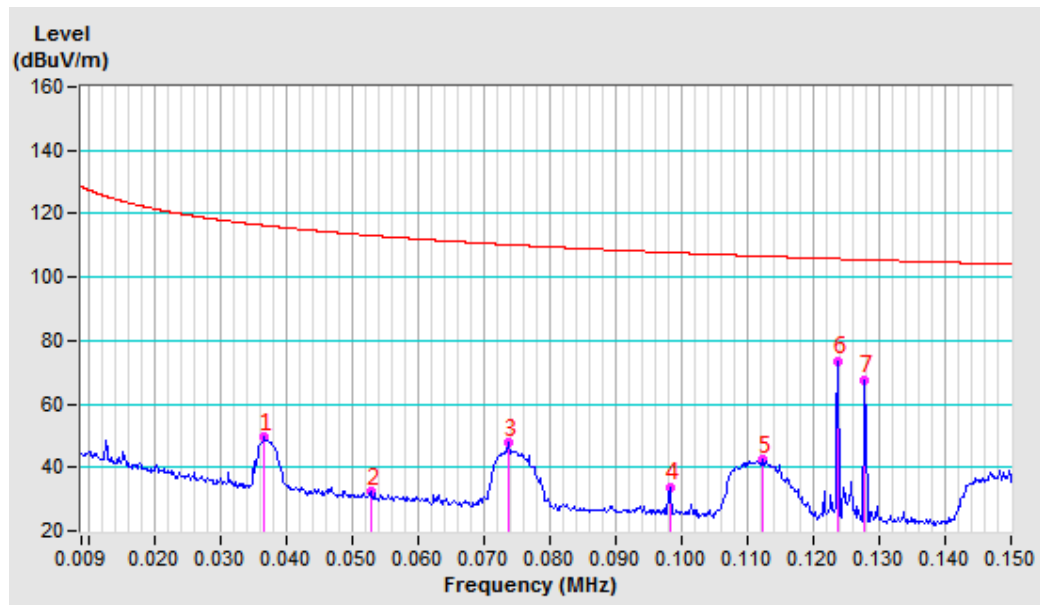




Test Mode	E	Frequency Range	9 kHz ~ 150 KHz
Test Voltage	AC 120V 60Hz	Detector Function	QP&AV
Environmental Conditions	25deg. C, 56% R	Tested By	Albert
Test Date	2024-12-02		

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PARALLEL AT 3m

No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.0368	-11.55	60.95	49.40	116.30	-66.90	100	166
2	0.0529	-11.62	44.12	32.50	113.13	-80.63	100	360
3	0.0738	-11.57	59.30	47.73	110.24	-62.51	100	166
4	0.0982	-11.50	45.33	33.83	107.76	-73.93	100	66
5	0.1124	-11.45	53.73	42.28	106.59	-64.31	100	175
6	0.1237	-11.42	84.99	73.57	105.76	-32.19	100	62
7	0.1278	-11.41	79.06	67.65	105.47	-37.82	100	283

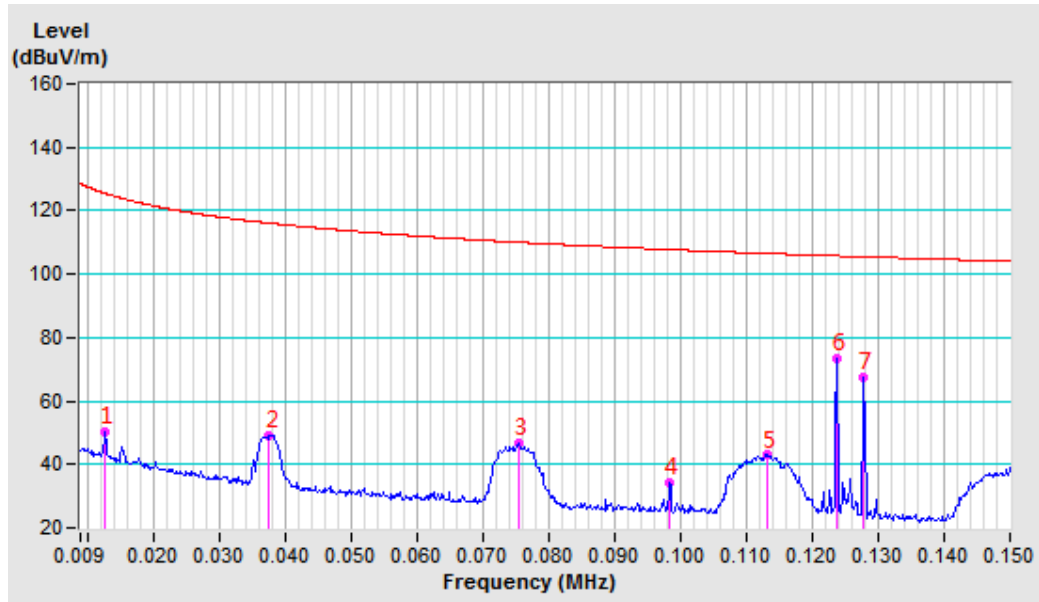




Test Mode	E	Frequency Range	9 kHz ~ 150 KHz
Test Voltage	AC 120V 60Hz	Detector Function	QP&AV
Environmental Conditions	25deg. C, 56% R	Tested By	Albert
Test Date	2024-12-02		

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PARALLEL AT 3m

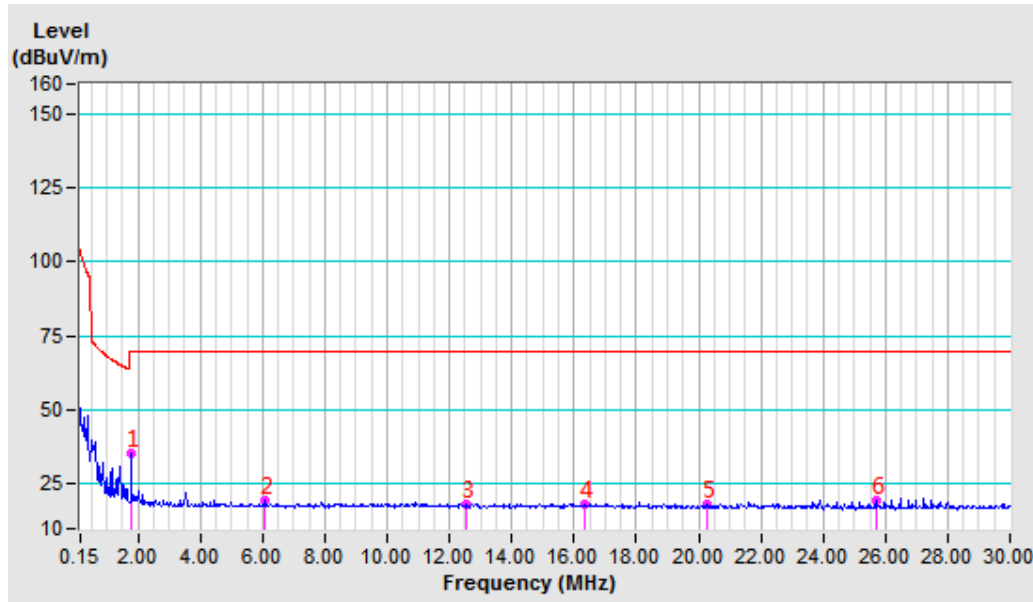
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.0128	-10.38	60.90	50.52	125.48	-74.96	100	96
2	0.0377	-11.56	60.87	49.31	116.08	-66.77	100	181
3	0.0754	-11.56	58.40	46.84	110.06	-63.22	100	176
4	0.0983	-11.50	45.93	34.43	107.75	-73.32	100	60
5	0.1131	-11.45	54.51	43.06	106.53	-63.47	100	176
6	0.1237	-11.42	84.96	73.54	105.76	-32.22	100	58
7	0.1278	-11.41	79.04	67.63	105.47	-37.84	100	283





Test Mode	E	Frequency Range	150 kHz ~ 30 MHz
Test Voltage	AC 120V 60Hz	Detector Function	QP&AV
Environmental Conditions	25deg. C, 56% R	Tested By	Albert
Test Date	2024-12-02		

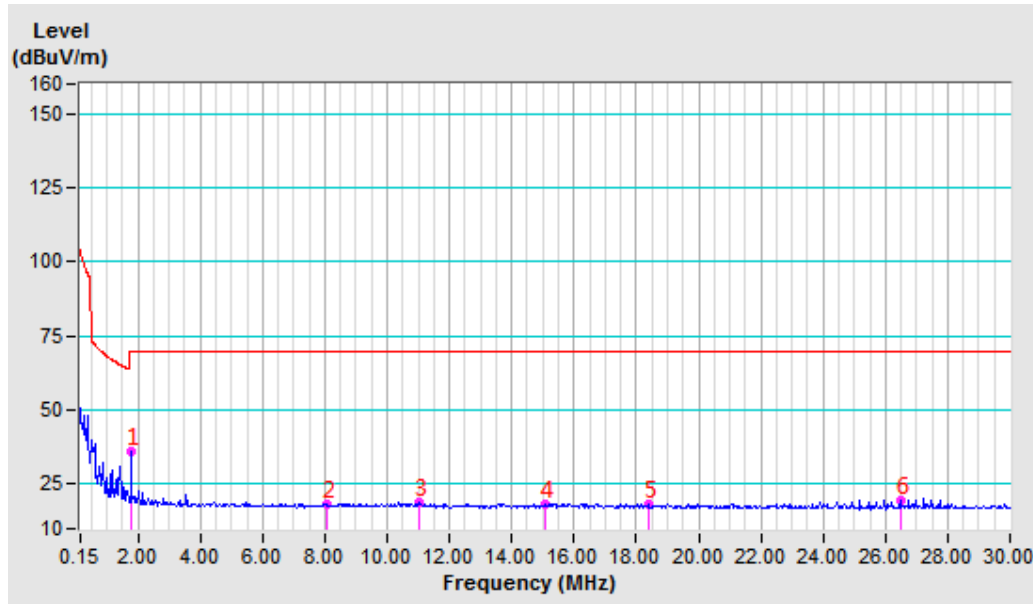
ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PERPENDICULAR AT 3m								
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	1.7769	-11.49	46.99	35.50	69.54	-34.04	100	327
2	6.0576	-11.14	30.62	19.48	69.54	-50.06	100	115
3	12.5264	-10.84	29.37	18.53	69.54	-51.01	100	44
4	16.3549	-10.49	28.87	18.38	69.54	-51.16	100	164
5	20.2669	-10.41	28.54	18.13	69.54	-51.41	100	296
6	25.6969	-10.23	30.08	19.85	69.54	-49.69	100	278





Test Mode	E	Frequency Range	150 kHz ~ 30 MHz
Test Voltage	AC 120V 60Hz	Detector Function	QP&AV
Environmental Conditions	25deg. C, 56% R	Tested By	Albert
Test Date	2024-12-02		

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA PERPENDICULAR AT 3m								
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	1.7769	-11.49	47.50	36.01	69.54	-33.53	130	324
2	8.0711	-10.96	29.32	18.36	69.54	-51.18	130	360
3	11.0503	-10.89	29.60	18.71	69.54	-50.83	130	176
4	15.0862	-10.58	28.86	18.28	69.54	-51.26	130	2
5	18.4102	-10.38	28.64	18.26	69.54	-51.28	130	118
6	26.4656	-10.20	29.78	19.58	69.54	-49.96	130	264

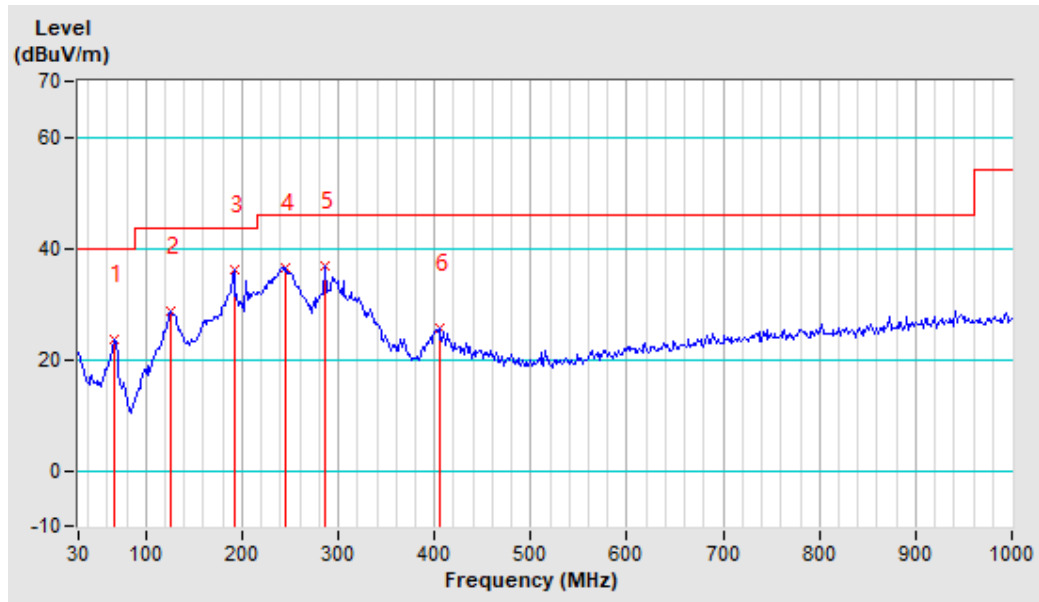




Test Mode	E	Frequency Range	30MHz ~ 1000MHz
Test Voltage	AC 120V 60Hz	Detector Function	Quasi-Peak (QP)
Environmental Conditions	25deg. C, 56% RH	Tested By	Ludius
Test date	2024-12-04		

Antenna Polarity & Test Distance: Horizontal At 3m								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	67.31	-18.82	42.30	23.48	40.00	-16.52	214	232
2	126.38	-18.97	47.62	28.65	43.50	-14.85	146	299
3	191.67	-19.42	55.67	36.25	43.50	-7.25	162	284
4	246.07	-17.50	53.86	36.36	46.00	-9.64	200	247
5	286.49	-15.91	52.69	36.78	46.00	-9.22	182	265
6	404.63	-12.68	38.20	25.52	46.00	-20.48	231	216

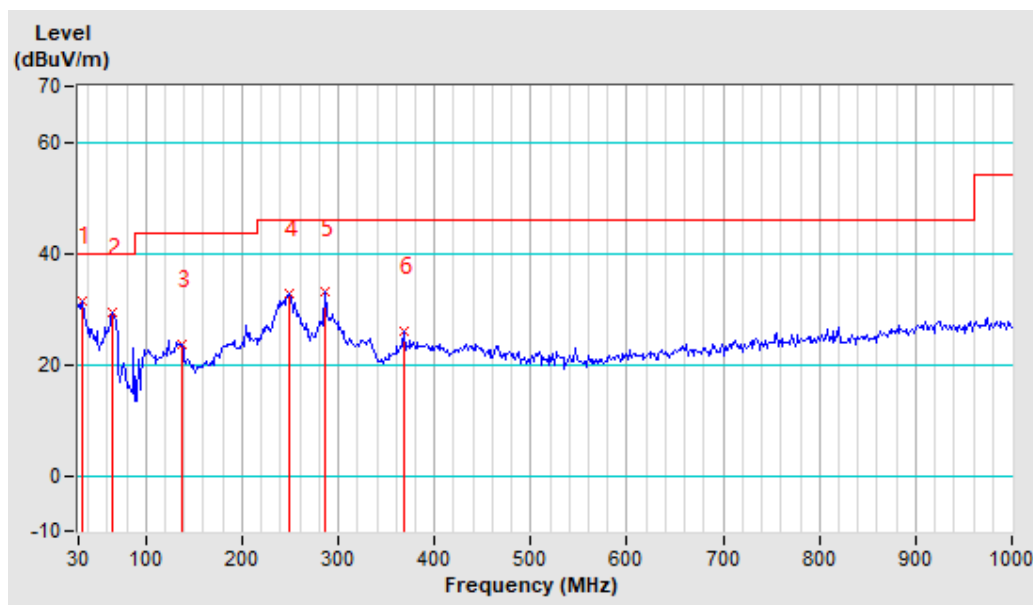
- REMARKS:** 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
2. Negative sign (-) in the margin column signify levels below the limit.
3. Frequency range scanned: 30-1000MHz.
4. Only emissions significantly above equipment noise floor are reported.



Test Mode	E	Frequency Range	30MHz ~ 1000MHz
Test Voltage	AC 120V 60Hz	Detector Function	Quasi-Peak (QP)
Environmental Conditions	25deg. C, 56% RH	Tested By	Ludius
Test date	2024-12-04		

Antenna Polarity & Test Distance: Vertical At 3m								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	33.11	-19.13	50.47	31.34	40.00	-8.66	188	257
2	65.75	-18.50	47.80	29.30	40.00	-10.70	169	276
3	137.26	-17.64	41.21	23.57	43.50	-19.93	236	210
4	249.18	-17.36	50.21	32.85	46.00	-13.15	153	292
5	286.49	-15.91	48.85	32.94	46.00	-13.06	138	306
6	368.88	-13.69	39.71	26.02	46.00	-19.98	125	320

REMARKS: 1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
2. Negative sign (-) in the margin column signify levels below the limit.
3. Frequency range scanned: 30-1000MHz.
4. Only emissions significantly above equipment noise floor are reported.



4.3 20dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 20dB BANDWIDTH MEASUREMENT

The field strength of any emissions appearing between the band edges and out of band shall be attenuated at least 20 dB below the level of the unmodulated carrier or to the general limits in Section 15.209.

4.3.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
Power Sensor	Keysight	U2021XA	MY57320002	Apr. 07, 25
Digital Multimeter	FLUKE	15B	A1220010DG	N/A
Humid & Temp Programmable Tester	Haida	HD-225T	110807201	Oct. 10, 25
Oscilloscope	Agilent	DSO9254A	MY51260160	Jul. 07, 25
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV40	101094	Oct. 09, 25
Signal Generator	Agilent	N5183A	MY50140980	Jul. 11, 25
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Jul. 11, 25
BLUETOOTH TESTER	Rohde&Schwarz	CBT32	100811	N/A
Attenuator	MINI	BW-S10W2+	S130129FGE2	N/A
DC Source	Keysight	E3642A	MY56146098	N/A
Test software	ADT	ADT_RF Test Software V6.6.5.3	N/A	N/A

NOTES: 1. Equipment are calibrated by calibration laboratory accredited to ISO/IEC 17025 by a mutually recognized Accreditation and all tests are conducted within a valid calibration cycle.
2. The test was performed in RF Oven room.

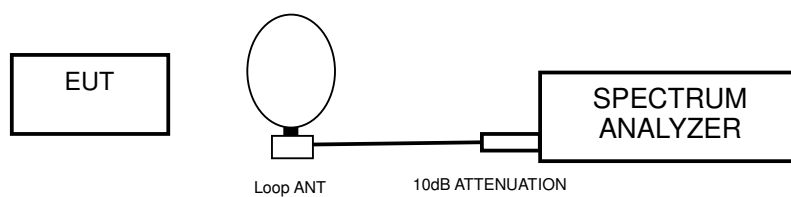
4.3.3 TEST PROCEDURE

- Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- Repeat above procedures until all frequencies measured were complete.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation.

4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITION

- a. Turn on the EUT.
- b. The EUT tested in charging mode and standby mode respectively.



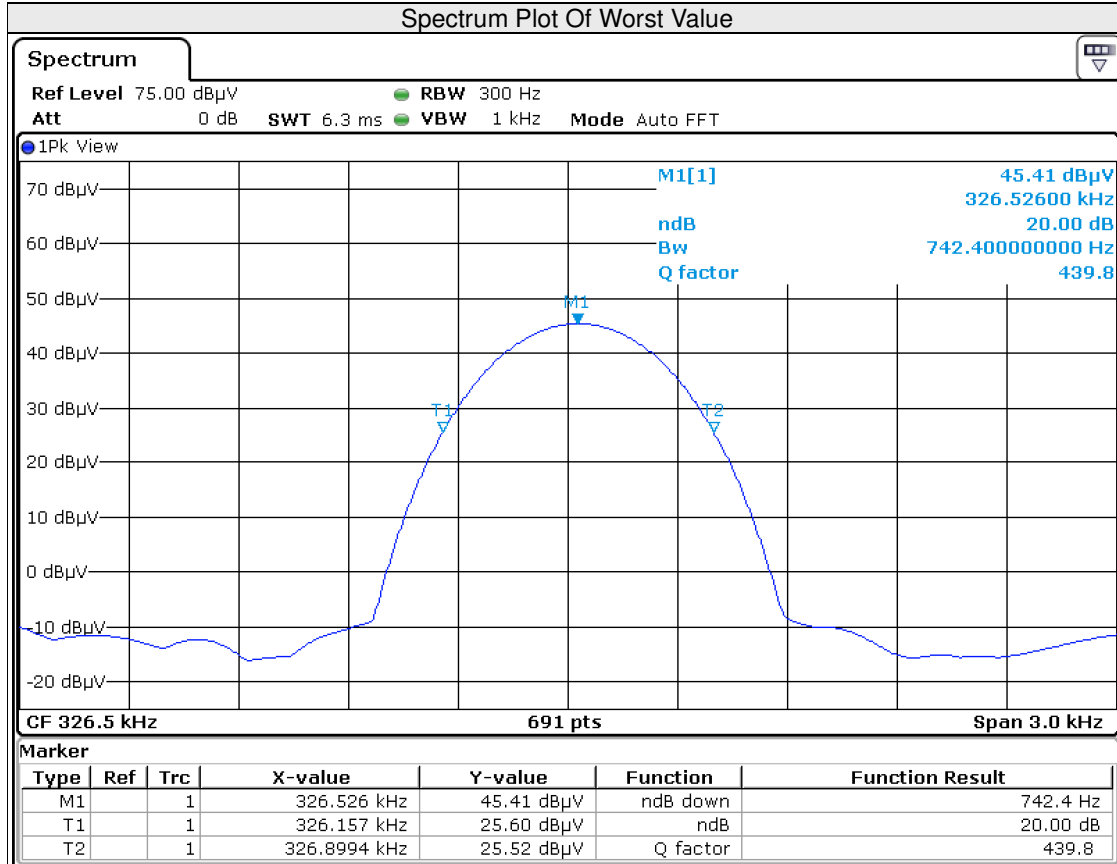
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Test Report No.: RF2411WDG0259

4.3.7 TEST RESULTS

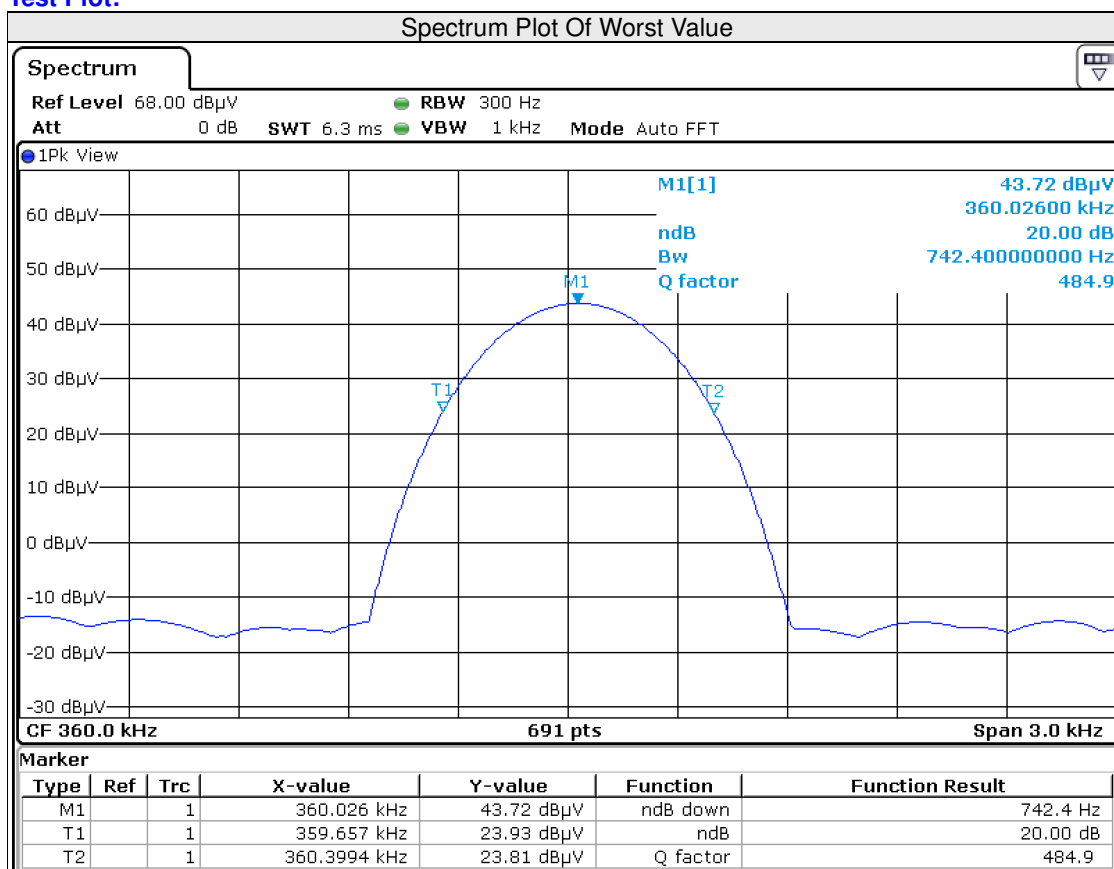
Test Mode	Frequency (kHz)	20dB Bandwidth (Hz)
A	326.5(Watch Coil)	742.4

Test Plot:



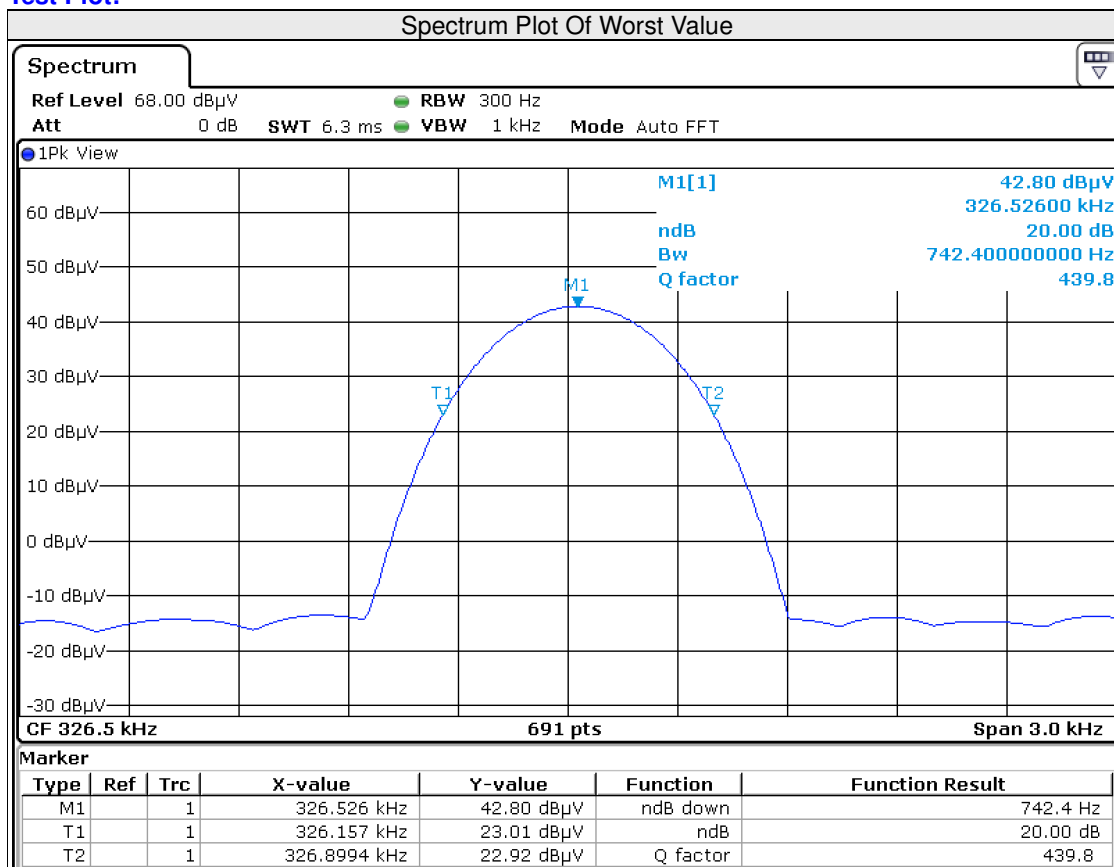
Test Mode	Frequency (kHz)	20dB Bandwidth (Hz)
B	360(15W Coil)	742.4

Test Plot:



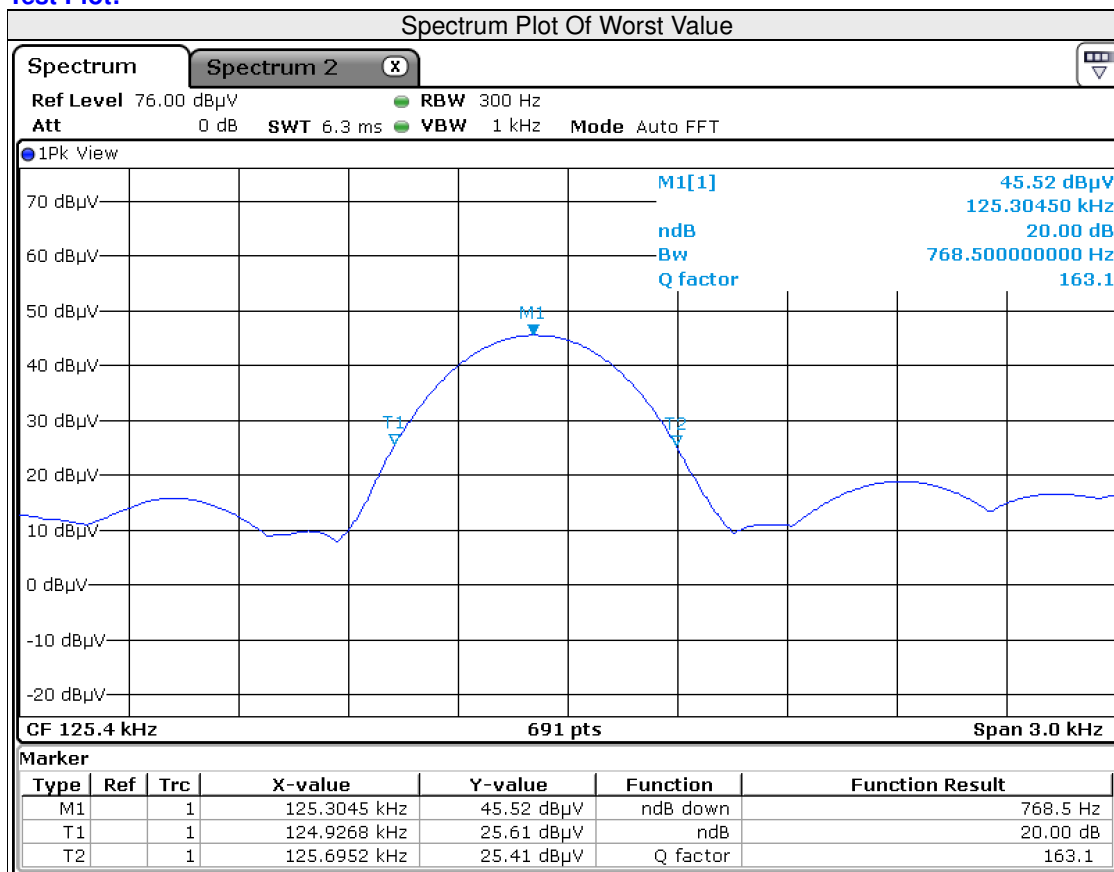
Test Mode	Frequency (kHz)	20dB Bandwidth (Hz)
B	326.5(Watch Coil)	742.4

Test Plot:



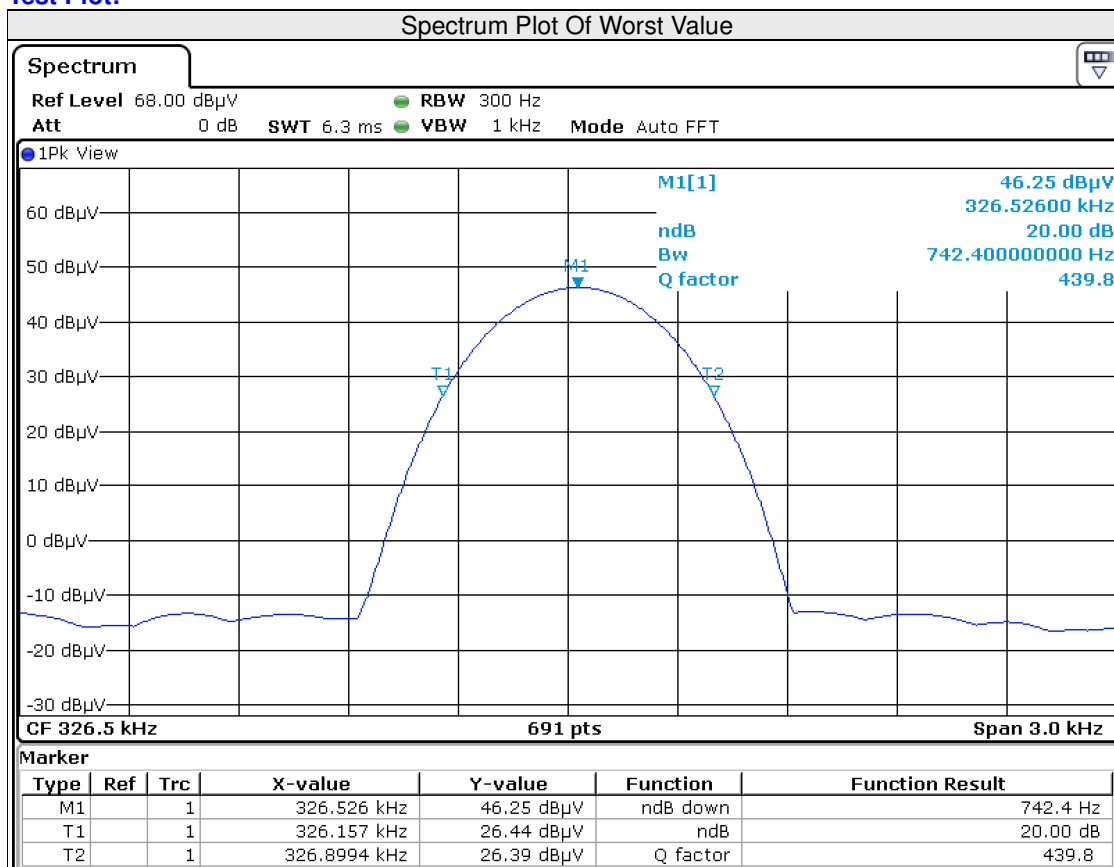
Test Mode	Frequency (kHz)	20dB Bandwidth (Hz)
C	125.4(5W/7.5W Coil)	768.5

Test Plot:



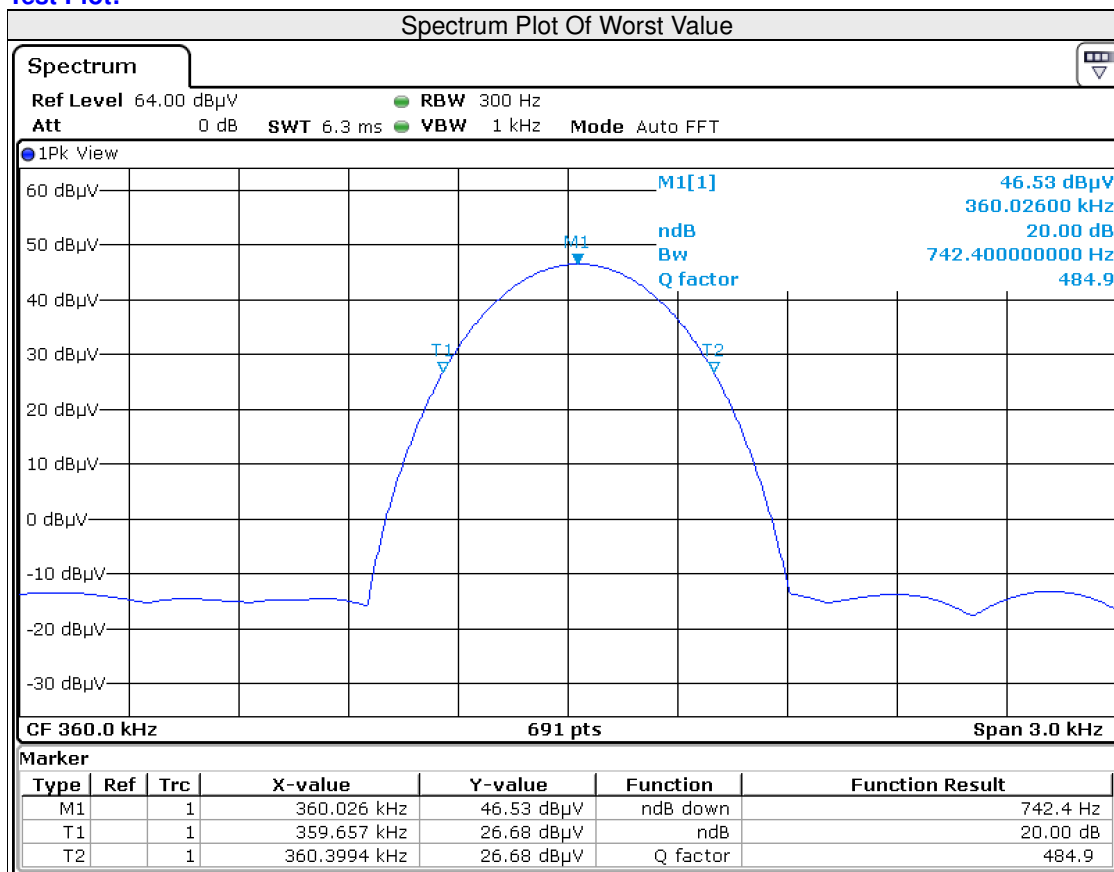
Test Mode	Frequency (kHz)	20dB Bandwidth (Hz)
C	145.6(Watch Coil)	742.4

Test Plot:



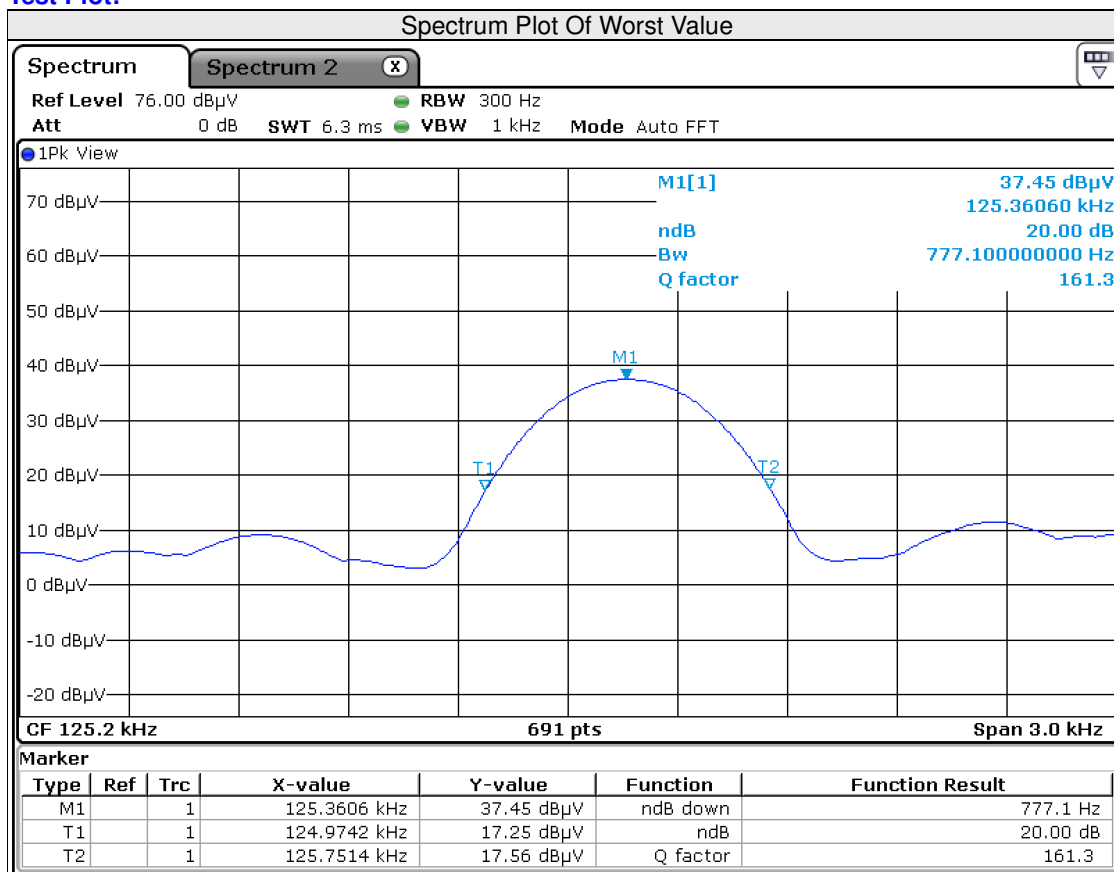
Test Mode	Frequency (kHz)	20dB Bandwidth (Hz)
D	360(15W Coil)	742.4

Test Plot:



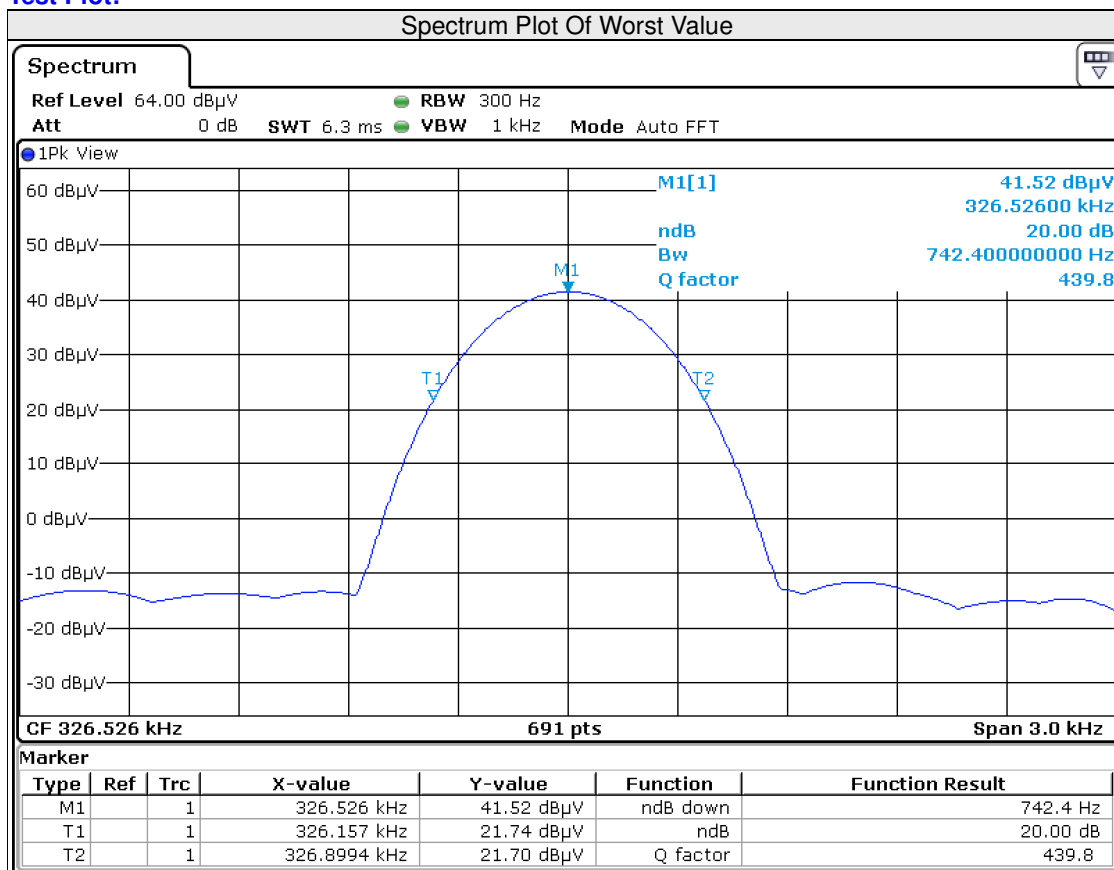
Test Mode	Frequency (kHz)	20dB Bandwidth (Hz)
D	125.2(5W/7.5W Coil)	777.1

Test Plot:



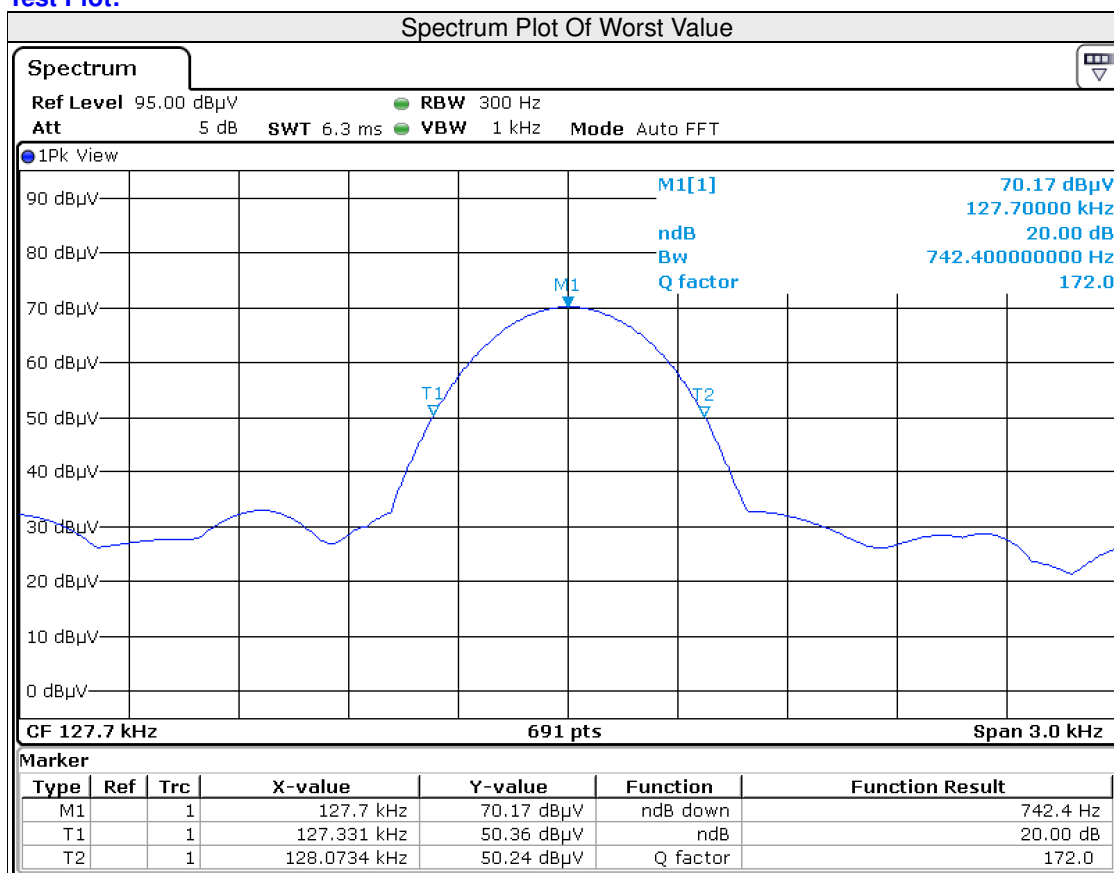
Test Mode	Frequency (kHz)	20dB Bandwidth (Hz)
D	326.5(Watch Pack)	742.4

Test Plot:



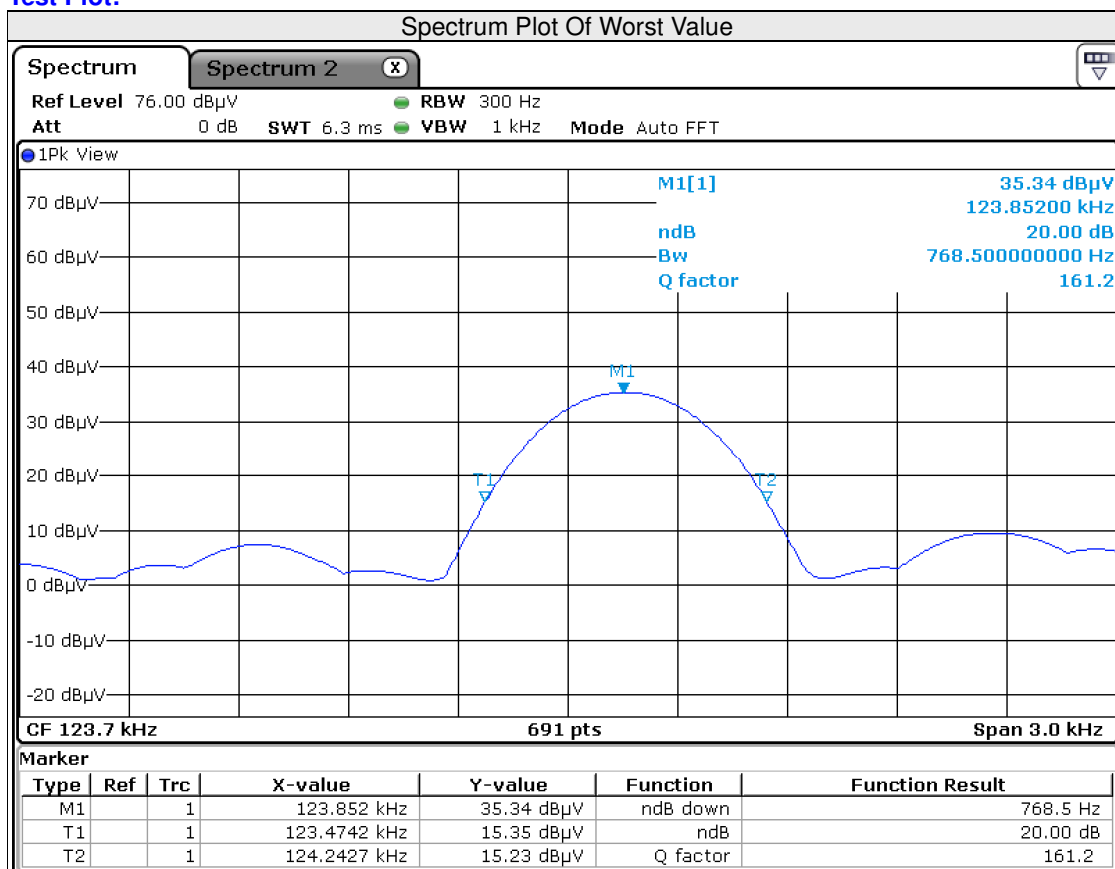
Test Mode	Frequency (kHz)	20dB Bandwidth (Hz)
E	127.7(15W Coil)	742.4

Test Plot:



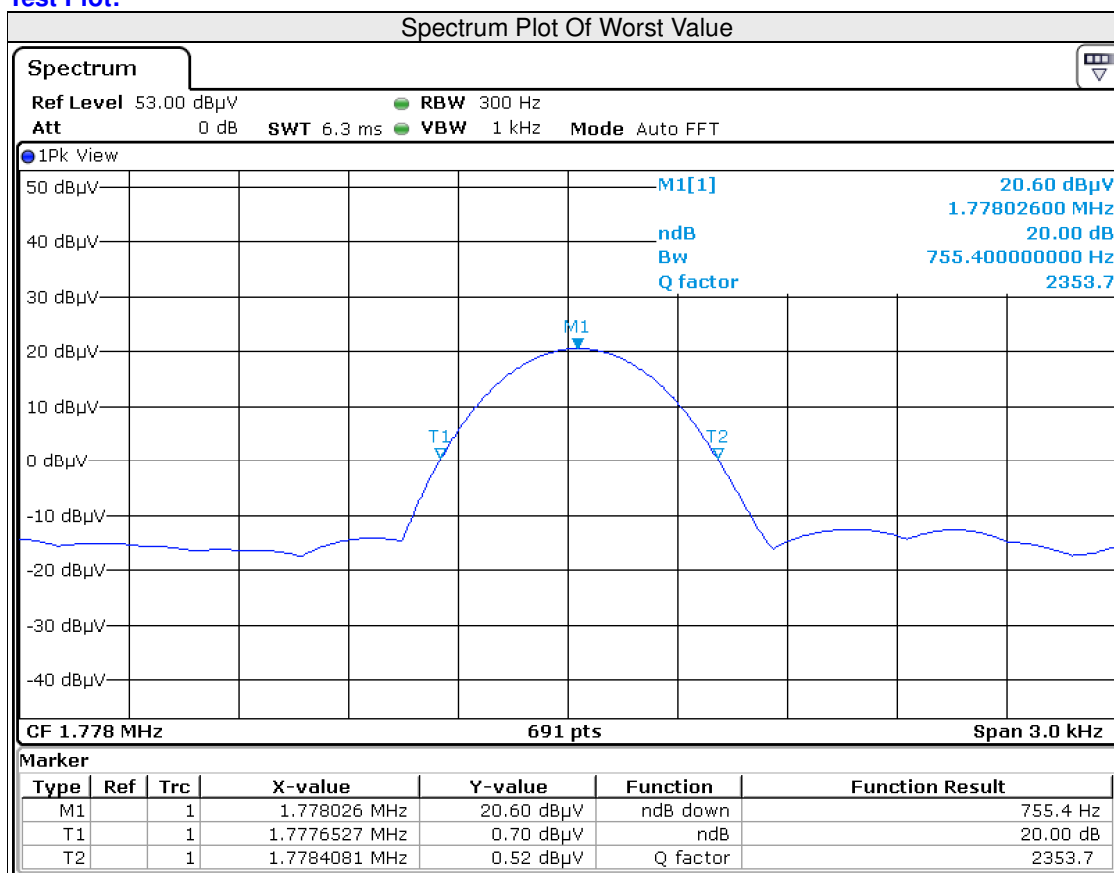
Test Mode	Frequency (kHz)	20dB Bandwidth (Hz)
E	123.7(5W/7.5W Coil)	768.5

Test Plot:



Test Mode	Frequency (kHz)	20dB Bandwidth (Hz)
E	1778(Watch Coil)	755.4

Test Plot:





Test Report No.: RF2411WDG0259

5 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



Test Report No.: RF2411WDG0259

6 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.

---END---