

TEST REPORT

Product Name: Desktop Reader NEO2 HF/LF
FCC ID: S6A-NEO2
Trademark: N/A
Model Number: R-DT-NEO2-HF/LF
Prepared For: iDTRONIC GmbH
Address: Ludwig-Reichling Str. 4 Ludwigshafen am Rhein, 67059 Germany
Manufacturer: iDTRONIC GmbH
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Sample Received Date: Sep. 05, 2023
Sample tested Date: Sep. 05, 2023 to Sep. 12, 2023
Issue Date: Sep. 12, 2023
Report No.: CTB230912011RFX
Test Standards: FCC Part15.225
ANSI C63.10:2013
Test Results: PASS
Remark: This is 13.56MHz radio test report.

Compiled by:

Reviewed by:

Approved by:

Zhou Kui

Arron Liu

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Note: If there is any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client. "*" indicates the testing items were fulfilled by subcontracted lab. "#" indicates the items are not in CNAS accreditation scope.

TABLE OF CONTENT

Test Report Declaration	Page
1. VERSION.....	4
2. TESTSUMMARY	5
3. MEASUREMENTUNCERTAINTY	6
4. PRODUCT INFORMATION AND TESTSETUP	7
4.1 ProductInformation.....	7
4.2 Test Setup Configuration	7
4.3 Support Equipment	7
4.2 TestMode.....	8
4.3 TestEnvironment.....	8
5. TEST FACILITY AND TEST INSTRUMENTUSED.....	9
5.1 TestFacility.....	9
5.2 Test InstrumentUsed.....	9
6. AC POWER LINE CONDUCTEDEMISSION	11
6.1 Block Diagram OfTestSetup.....	11
6.2 Limit	11
6.3 Testprocedure.....	11
6.4 TestResult.....	12
7. RADIATEDEMISSION	14
7.1 Block Diagram OfTestSetup.....	14
7.2 Limit	14
7.3 Testprocedure.....	15
7.4 TestResult.....	16
8. FREQUENCYTOLERANCE	20
8.1 Block Diagram OfTestSetup.....	20
8.2 Limit	20
8.3 Testprocedure.....	20
8.4 TestResult.....	21
9. OCCUPIEDBANDWIDTH	22
9.1 Block Diagram OfTestSetup.....	22
9.2 Limit	22

9.3	Testprocedure.....	22
9.4	TestResult.....	23
10.	ANTENNAREQUIREMENT	24
11.	EUT TEST SETUPPHOTOGRAPHS.....	25

(Note: N/A means not applicable)

1. VERSION

Report No.	Issue Date	Description	Approved
CTB230912011RFX	Sep. 12, 2023	Original	Valid

2. TESTSUMMARY

The Product has been tested according to the following specifications:

Test Item	Test Requirement	Test method	Result
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2013	PASS
Radiated Emission	47 CFR Part 15 Subpart C Section 15.209; 15.225(a)(b)(c)(d)	ANSI C63.10-2013	PASS
Frequency Tolerance	47 CFR Part 15 Subpart C Section 15.225(e)	ANSI C63.10-2013	PASS
Occupied Bandwidth	47 CFR Part 15 Subpart C Section 15.215	ANSI C63.10-2013	PASS
Antenna requirement	47 CFR Part 15 Subpart C Section 15.203	/	PASS

3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Item	Uncertainty
Occupancy bandwidth	$U=\pm 54.3\text{Hz}$
Conducted output power Above 1G	$U=\pm 1.0\text{dB}$
Conducted output power below 1G	$U=\pm 0.9\text{dB}$
Power Spectral Density , Conduction	$U=\pm 1.0\text{dB}$
Conduction spurious emissions	$U=\pm 2.8\text{dB}$
Out of band emission	$U=\pm 54\text{Hz}$
3m chamber Radiated spurious emission(30MHz-1GHz)	$U=\pm 4.3\text{dB}$
3m chamber Radiated spurious emission(1GHz-18GHz)	$U=\pm 4.5\text{dB}$
humidity uncertainty	$U=\pm 5.3\%$
Temperature uncertainty	$U=\pm 0.59^{\circ}\text{C}$
Supply voltages	$U=\pm 3\%$
Time	$U=\pm 5\%$

4. PRODUCT INFORMATION AND TESTSETUP

4.1 ProductInformation

Model(s):	R-DT-NEO2-HF/LF
Model Description:	N/A
Operation Frequency:	13.56MHz
Type of Modulation:	ASK
Antenna installation:	Internal antenna
Antenna Gain:	1.0dBi
Ratings:	DC 5V by adapter

4.2 Test Setup Configuration

See test photographs attached in EUT TEST SETUP PHOTOGRAPHS for the actual connections between Product and support equipment.

4.3 Support Equipment

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1	Adapter	JIYIN	JY-05100C	/	/

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.2 TestMode

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, the worst data were recorded and reported.

Test mode
Keep the EUT in transmitting mode (NFC mode) with modulation.
The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

4.3 TestEnvironment

Humidity(%):	54
Atmospheric Pressure(kPa):	101
Normal Voltage(DC)(V):	5
Normal Temperature(°C)	23

5. TEST FACILITY AND TEST INSTRUMENTUSED

5.1 TestFacility

All measurement facilities used to collect the measurement data are located at 1&2F., Building A, No. 26, Xinhe Road, Xinqiao, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

5.2 Test InstrumentUsed

Item	Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Agilent	N9020A	MY52090073	2024.07.05
2	Power Sensor	Agilent	U2021XA	MY56120032	2024.07.05
3	Power Sensor	Agilent	U2021XA	MY56120034	2024.07.05
4	Communication test set	R&S	CMW500	108058	2024.07.05
5	Spectrum Analyzer	KEYSIGHT	N9020A	MY51289897	2024.07.05
6	Signal Generator	Agilent	N5181A	MY50140365	2024.07.05
7	Vector signal generator	Agilent	N5182A	MY47420195	2024.07.05
8	Communication test set	Agilent	E5515C	MY50102567	2024.07.06
9	2.4 GHz Filter	Shenxiang	MSF2400-2483.5MS-1154	20181015001	2024.07.05
10	5 GHz Filter	Shenxiang	MSF5150-5850MS-1155	20181015001	2024.07.06
11	Filter	Xingbo	XBLBQ-DZA120	190821-1-1	2024.07.06
12	BT&WI-FI Automatic test software	Microwave	MTS8000	Ver. 2.0.0.0	/
13	Rohde & Schwarz SFU Broadcast Test System	R&S	SFU	101017	2023.10.30
14	Temperature humidity chamber	Hongjing	TH-80CH	DG-15174	2024.07.05
15	234G Automatic test software	Microwave	MTS8200	Ver. 2.0.0.0	/
16	966 chamber	C.R.T.	966	/	2024.08.11
17	Receiver	R&S	ESPI	100362	2024.07.05
18	Amplifier	HP	8447E	2945A02747	2024.07.05
19	Amplifier	Agilent	8449B	3008A01838	2024.07.05
20	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	2024.07.08
21	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA9120D	01911	2024.07.08

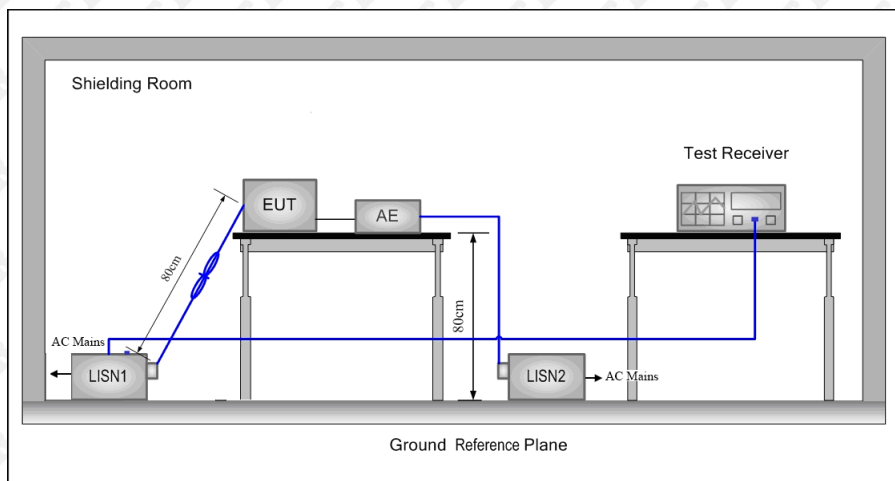
22	EMI test software	Fala	EZ-EMC	FA-03A2 RE	/
23	Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-224	2024.07.08
24	loop antenna	ZHINAN	ZN30900A	GTS534	/
25	40G Horn antenna	A/H/System	SAS-574	588	2023.10.30
26	Amplifier	AEROFLEX	Aeroflex	097	2023.10.30

Continuous disturbance					
No.	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	LISN	ROHDE&SCHWARZ	ESH3-Z5	100318	2024.07.05
2	Pulse limiter	ROHDE&SCHWARZ	ESH3Z2	357881052	2024.07.05
3	EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100428/003	2024.07.05
4	Coaxial cable	ZDECL	Z302S-NJ-SMAJ-12M	18091905	2024.07.05
5	ISN	Schwarzbeck	NTFM8158	183	2024.07.05
6	Communication test set	Agilent	E5515C	MY50102567	2024.07.05
7	Communication test set	R&S	CMW500	108058	2024.07.05
8	EZ-EMC	Frad	EMC-con3A1.1	/	/

Radiated emission					
No.	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA 9120 D	01911	2024.07.08
2	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	00869	2024.07.08
3	Amplifier	Agilent	8449B	3008A01838	2024.07.05
4	Amplifier	HP	8447E	2945A02747	2024.07.05
5	EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100428/003	2024.07.05
6	Coaxial cable	ETS	RFC-SNS-100-NMS-80 NI	/	2024.07.05
7	Coaxial cable	ETS	RFC-SNS-100-NMS-20 NI	/	2024.07.05
8	Coaxial cable	ETS	RFC-SNS-100-SMS-20 NI	/	2024.07.05
9	Coaxial cable	ETS	RFC-NNS-100-NMS-300 NI	/	2024.07.05
10	Communication test set	Agilent	E5515C	MY50102567	2024.07.05
11	Communication test set	R&S	CMW500	108058	2024.07.05
12	EZ-EMC	Frad	EMC-con3A1.1	/	/

6. AC POWER LINE CONDUCTED EMISSION

6.1 Block Diagram Of Test Setup



6.2 Limit

* Decreasing linearly with the logarithm of the frequency

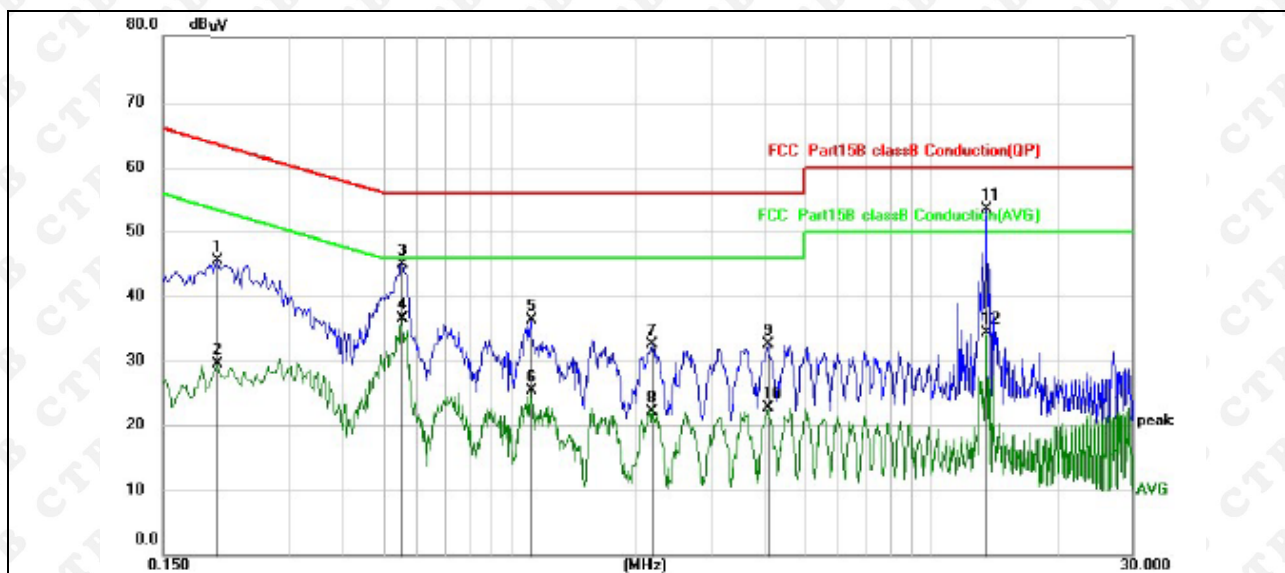
Frequency (MHz)	Maximum RF Line Voltage (dB μ V)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56*	56-46*
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

6.3 Test procedure

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

6.4 TestResult

Temperature:	23 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage:	DC 5V	Test Mode:	

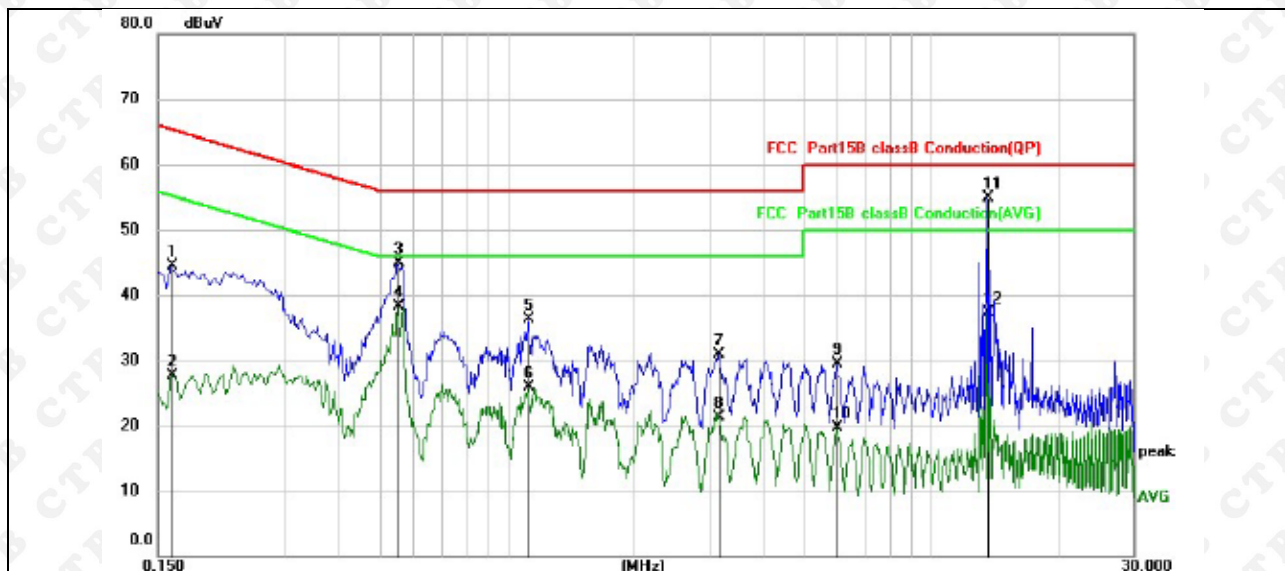


Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2020	35.57	9.95	45.52	63.53	-18.01	QP
2		0.2020	19.56	9.95	29.51	53.53	-24.02	AVG
3		0.5540	35.00	10.00	45.00	56.00	-11.00	QP
4		0.5540	26.56	10.00	36.56	46.00	-9.44	AVG
5		1.1180	26.20	10.02	36.22	56.00	-19.78	QP
6		1.1180	15.37	10.02	25.39	46.00	-20.61	AVG
7		2.1739	22.44	10.11	32.55	56.00	-23.45	QP
8		2.1739	11.91	10.11	22.02	46.00	-23.98	AVG
9		4.0979	22.27	10.29	32.56	56.00	-23.44	QP
10		4.0979	12.34	10.29	22.63	46.00	-23.37	AVG
11	*	13.4818	42.84	10.68	53.52	60.00	-6.48	QP
12		13.4818	23.53	10.68	34.21	50.00	-15.79	AVG

Temperature:	23℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage:	DC 5V	Test Mode:	



Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1	0.1620	34.53	9.95	44.48	65.36	-20.88	QP
2	0.1620	17.85	9.95	27.80	55.36	-27.56	AVG
3	0.5540	34.83	10.00	44.83	56.00	-11.17	QP
4	0.5540	28.27	10.00	38.27	46.00	-7.73	AVG
5	1.1259	26.30	10.02	36.32	56.00	-19.68	QP
6	1.1259	15.80	10.02	25.82	46.00	-20.18	AVG
7	3.1500	20.64	10.20	30.84	56.00	-25.16	QP
8	3.1500	11.13	10.20	21.33	46.00	-24.67	AVG
9	5.9858	18.96	10.45	29.41	60.00	-30.59	QP
10	5.9858	9.27	10.45	19.72	50.00	-30.28	AVG
11 *	13.6100	44.25	10.69	54.94	60.00	-5.06	QP
12	13.6100	26.61	10.69	37.30	50.00	-12.70	AVG

7. RADIATED EMISSION

7.1 Block Diagram Of Test Setup

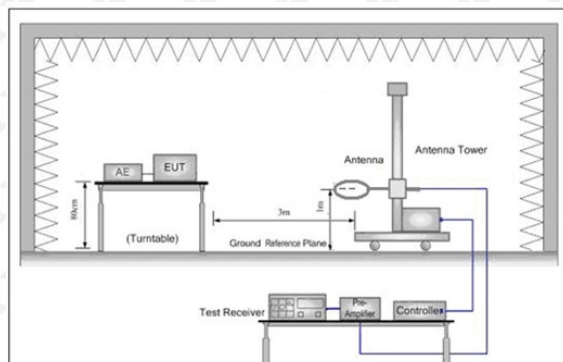


Figure 1. Below 30 MHz

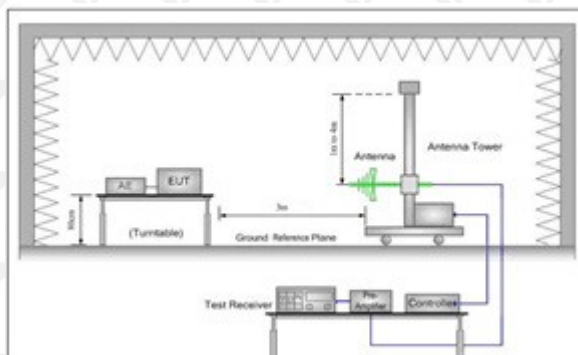


Figure 2. 30 MHz to 1 GHz

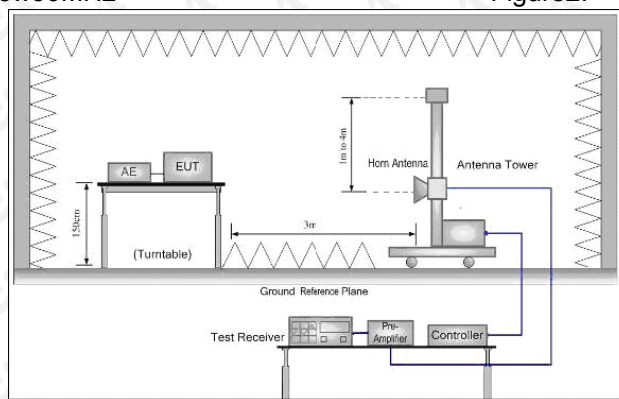


Figure 3. Above 1 GHz

7.2 Limit

Spurious Emissions:

Frequency	Field strength (dB μ V/m)	Remark	Measurement distance (m)
0.009 MHz-0.490 MHz	$20\log 2400/F$ (kHz) + 80	Quasi-peak	3
0.490 MHz-1.705 MHz	$20\log 24000/F$ (kHz) + 40	Quasi-peak	3
1.705 MHz-30 MHz	$20\log 30$ + 40	Quasi-peak	3
30 MHz-88 MHz	40.0	Quasi-peak	3
88 MHz-216 MHz	43.5	Quasi-peak	3
216 MHz-960 MHz	46.0	Quasi-peak	3
960 MHz-1 GHz	54.0	Quasi-peak	3
Above 1 GHz	54.0	Average	3

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

Field Strength of Fundamental Limit:

- The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters. 15,848 microvolts/meter at 3 meters=124 dB μ V/m.
- Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters. 334 microvolts/meter at 3 meters=94.47 dB μ V/m.
- Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not

exceed 334 microvolts/meter at 30 meters.

7.3 Test procedure

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter 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 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotation 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.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a datasheet.

Above 1GHz test procedure as below:

- g. Different from above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change from table 0.8 meter to 1.5 meter (Above 18GHz the distance is 1 meter and table is 1.5 meter).
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel
- j. Repeat above procedures until all frequencies measured were complete.

Receiver set:

Frequency	Detector	RBW	VBW	Remark
0.009MHz-0.090MHz	Peak	10kHz	30KHz	Peak
0.009MHz-0.090MHz	Average	10kHz	30KHz	Average
0.090MHz-0.110MHz	Quasi-peak	10kHz	30KHz	Quasi-peak
0.110MHz-0.490MHz	Peak	10kHz	30KHz	Peak
0.110MHz-0.490MHz	Average	10kHz	30KHz	Average
0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120 kHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

7.4 TestResult

Field Strength of Fundamental

Frequency (MHz)	Reading (dBuV/m)	Correction Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar (H/V)	Detector
13.33	46.62	15.82	62.44	80.51	-18.07	H	QP
13.33	45.51	15.82	61.33	80.51	-19.18	V	QP
13.91	46.25	15.82	62.07	80.51	-18.44	H	QP
13.91	48.51	15.82	64.33	80.51	-16.18	V	QP
13.553	56.98	15.61	72.59	90.47	-17.88	H	QP
13.553	58.36	15.61	73.97	90.47	-16.50	V	QP
13.56	87.96	12.33	100.29	124	-23.71	H	Peak
13.56	84.60	12.33	96.93	124	-27.07	V	Peak
13.567	55.93	12.33	68.26	90.47	-22.21	H	QP
13.567	56.39	12.33	68.72	90.47	-21.75	V	QP
13.41	46.02	15.82	61.84	80.5	-18.66	H	QP
13.41	44.05	15.82	59.87	80.5	-20.63	V	QP
13.71	42.73	15.82	58.55	80.5	-21.95	H	QP
13.71	45.29	15.82	61.11	80.5	-19.39	V	QP
13.47	53.30	15.82	69.12	90.47	-21.35	H	QP
13.47	51.82	15.82	67.64	90.47	-22.83	V	QP
13.67	50.43	15.82	66.25	90.47	-24.22	H	QP
13.67	48.66	15.82	64.48	90.47	-25.99	V	QP

Harmonics and Spurious Emissions**Frequency Range (9 kHz-30MHz)**

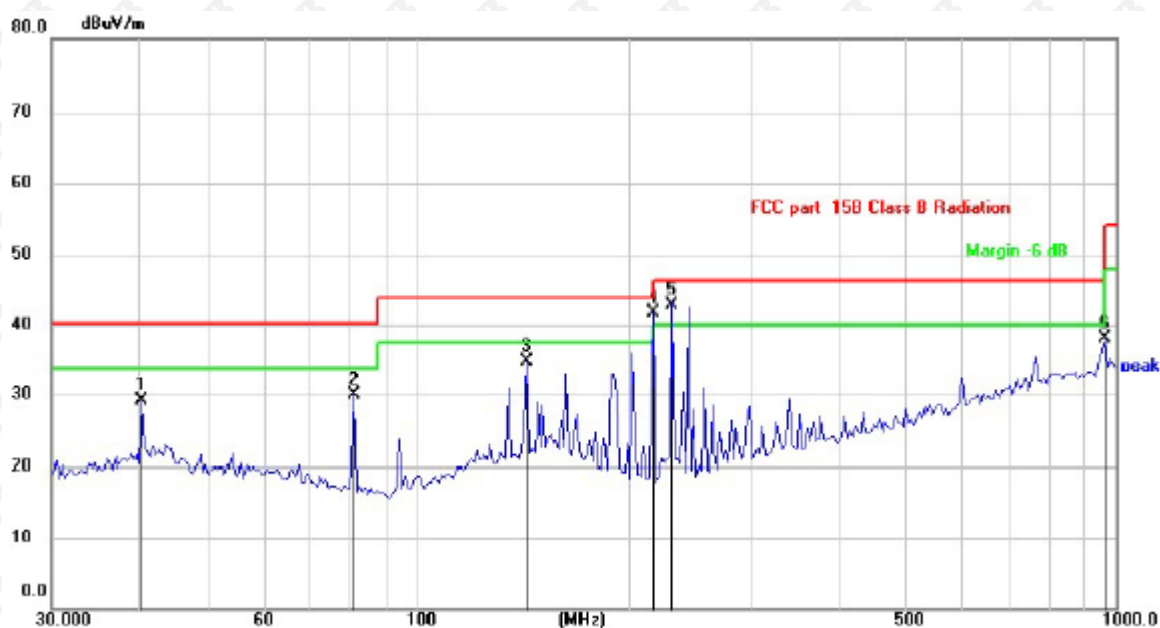
Frequency (MHz)	Level@3m (dBμV/m)	Limit@3m (dBμV/m)
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--	--	--
--	--	--
--	--	--

Note: 1. *Emission Level=Reading+ Cable loss-Antenna factor-Amp factor*

2. *The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement*

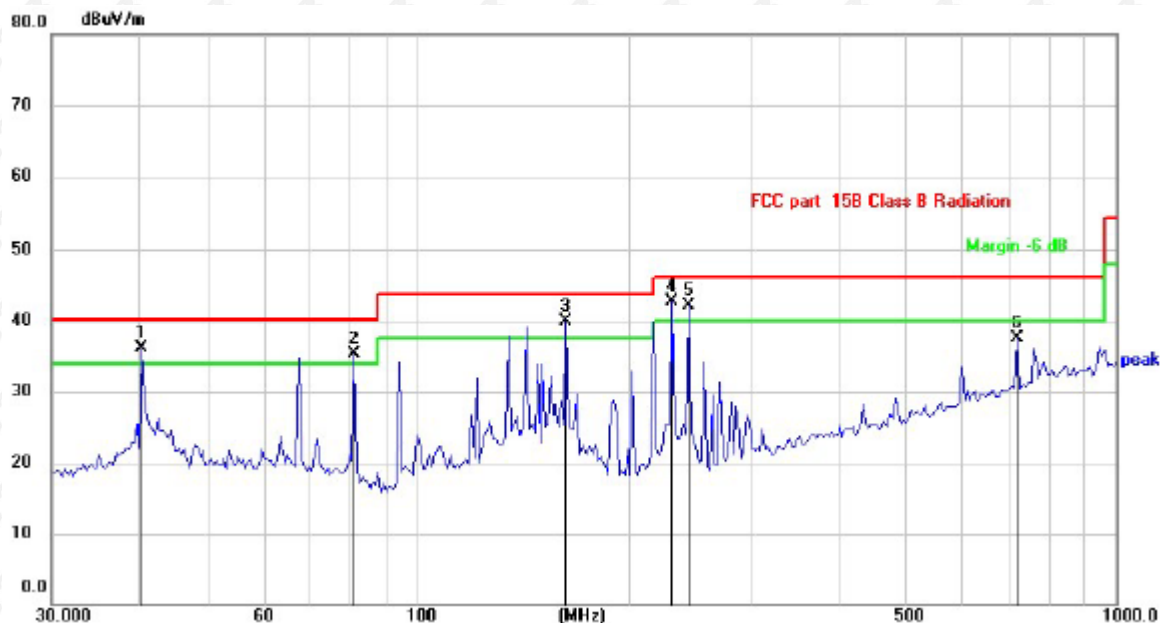
About 30MHz-1GHz Test Results:

Antenna polarity: H



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		40.4170	34.04	-4.85	29.19	40.00	-10.81	QP
2		81.4968	39.13	-9.22	29.91	40.00	-10.09	QP
3		144.0817	38.80	-3.89	34.91	43.50	-8.59	QP
4	!	217.5441	48.92	-7.27	41.65	46.00	-4.35	QP
5	*	231.3119	49.87	-7.11	42.76	46.00	-3.24	QP
6		965.5420	30.51	7.53	38.04	54.00	-15.96	QP

Antenna polarity: V

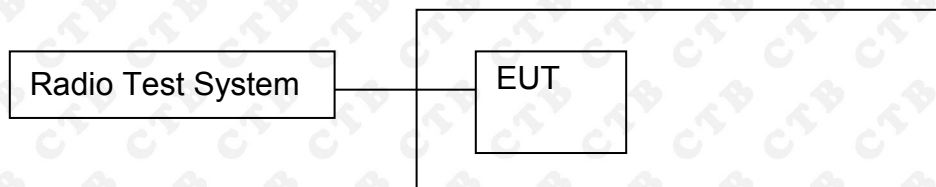


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1	!	40.4170	41.02	-4.85	36.17	40.00	-3.83	QP
2	!	81.4967	44.60	-9.22	35.38	40.00	-4.62	QP
3	!	162.8959	43.59	-3.78	39.81	43.50	-3.69	QP
4	*	231.3119	49.86	-7.11	42.75	46.00	-3.25	QP
5	!	243.8042	49.13	-6.97	42.16	46.00	-3.84	QP
6		722.9923	32.43	4.98	37.41	46.00	-8.59	QP

Remark: 1. Factor = Cable lose + Antenna factor - Pre-amplifier; Margin = Limit – Level
 2. This EUT was tested in 3 axis and the worst case position data was reported.

8. FREQUENCY TOLERANCE

8.1 Block Diagram Of Test Setup



8.2 Limit

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to $+50$ degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

Limit: $\pm 0.01\%$ of 13.56MHz = ± 1356 Hz

8.3 Test procedure

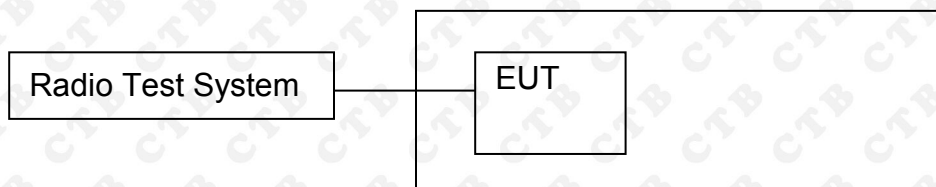
1. Set RBW = 10kHz.
2. Set the video bandwidth (VBW) $\geq$ RBW.
3. Detector = Peak.
4. Trace mode = maxhold.
5. Sweep = autocouple.
6. Allow the trace to stabilize.
7. The transmitter output (antenna port) was connected to the spectrum analyzer.

8.4 TestResult

Test Conditions			Frequency Deviation		Limit
Frequency MHz	Power(Vdc)	Temperature (°C)	Measured Freq. (MHz)	Deviation (%)	
13.56	Normal	-20	13.5603	0.0022	±0.01%
	Normal	-10	13.5605	0.0037	
	Normal	0	13.5602	0.0015	
	Normal	10	13.5604	0.0029	
	Normal	20	13.5603	0.0022	
	Normal	30	13.5604	0.0029	
	Normal	40	13.5602	0.0015	
	Normal	50	13.5605	0.0037	
	Normal*85%	20	13.5606	0.0044	
	Normal *115%	20	13.5602	0.0015	

9. OCCUPIEDBANDWIDTH

9.1 Block Diagram OfTestSetup



9.2 Limit

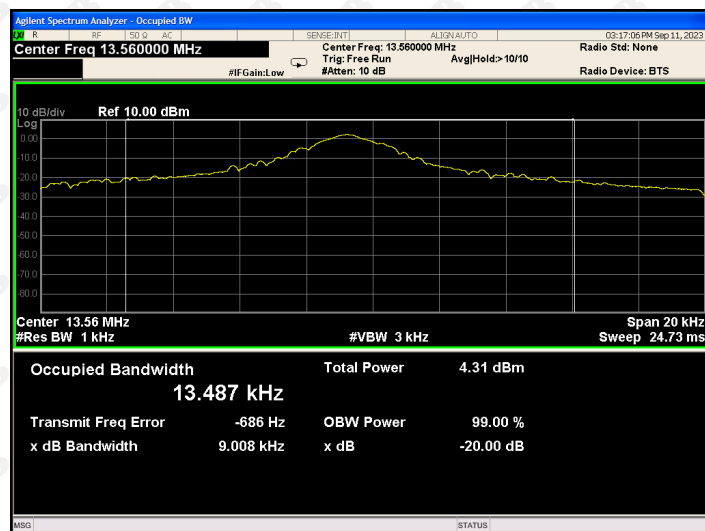
Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that 20dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment complies with the 20dB attenuation specification may be based on measurement at the intentional radiator's antenna output terminal unless the intentional radiator uses a permanently attached antenna, in which case compliance shall be demonstrated by measuring the radiated emissions.

9.3 Testprocedure

1. Set RBW = 1kHz.
2. Set the video bandwidth (VBW) ≥ RBW.
3. Detector = Peak.
4. Trace mode = maxhold.
5. Sweep = autocouple.
6. Allow the trace to stabilize.
7. 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 20 dB relative to the maximum level measured in the fundamental emission.

9.4 TestResult

Test Channel (MHz)	20dB Occupy Bandwidth (kHz)	Limit (kHz)	Conclusion
13.56	9.008	N/A	PASS



10. ANTENNA REQUIREMENT

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is Internal Antenna and no consideration of replacement. The best case gain of the antenna is 1.0dBi.

11. EUT TEST SETUPPHOTOGRAPHS

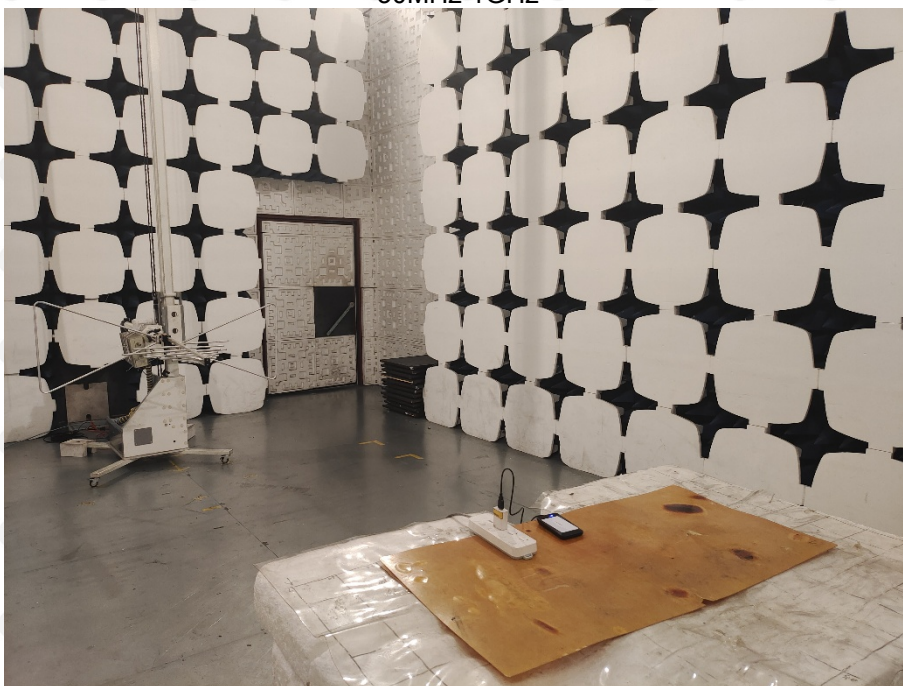
Conducted Measurement Photos



9KHz-30MHz



30MHz-1GHz



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