



FCC Radio Test Report

FCC ID: T2C-T74LTEUS

This report concerns: Original Grant

Project No. : 2512C071
Equipment : 4G LTE Desk Phone
Brand Name : Yealink
Model Name : T74LTE(US)
Applicant : YEALINK(XIAMEN) NETWORK TECHNOLOGY CO., LTD.
Address : No.666 Hu'an Rd. Huli District Xiamen City, Fujian
Huli District,
Xiamen City, Fujian,
China
Manufacturer : YEALINK(XIAMEN) NETWORK TECHNOLOGY CO., LTD.
Address : No.666 Hu'an Rd. Huli District Xiamen City, Fujian
Huli District,
Xiamen City, Fujian,
China
Date of Receipt : Dec. 08, 2025
Date of Test : Dec. 15, 2025 ~ Jan. 21, 2026
Issued Date : Feb. 06, 2026
Test Sample : Engineering Sample No.: DG920251208526 for AC Power Line
conducted and radiated, DG920251208529 for conducted.
Standard(s) : FCC CFR Title 47, Part 15, Subpart C

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc. (Dongguan)

Prepared by : Chella Zheng
Chella Zheng

Approved by : Steven Lu
Steven Lu

No.3, Jinshagang 1st Road, Dalang, Dongguan, Guangdong People's Republic of China.

Tel: +86-769-8318-3000

Web: www.newbtl.com

Service mail: btl_qa@newbtl.com

Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. BTL assumes no responsibility for the data provided by the customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by BTL.

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BTL's laboratory quality assurance procedures are in compliance with the ISO/IEC 17025: 2017 requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-4-2512C071	R00	Original Report.	Jan. 26, 2026	Invalid
BTL-FCCP-4-2512C071	R01	This report modified the antenna gain to 0.69dBi on page 11, which does not affect the results. It is a revision of the report BTL-FCCP-4-2512C071 R00. This is a newly released report, replacing the BTL-FCCP-4-2512C071 R00 report.	Feb. 06, 2026	Valid

1. APPLICABLE STANDARDS

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standard:

ANSI C63.10-2020

The following reference test guidance is not within the scope of accreditation of A2LA:

KDB 558074 D01 15.247 Meas Guidance v05r02

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC CFR Title 47, Part 15, Subpart C				
Standard(s) Section	Test Item	Test Result	Judgment	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	PASS	-----
15.247(d) 15.205(a) 15.209(a)	Radiated Emission	APPENDIX B APPENDIX C APPENDIX D	PASS	-----
15.247 (a)(1)(iii)	Number of Hopping Frequency	APPENDIX E	PASS	-----
15.247 (a)(1)(iii)	Average Time of Occupancy	APPENDIX F	PASS	-----
15.247(a)(1)	Hopping Channel Separation	APPENDIX G	PASS	-----
15.247(a)(1)	Bandwidth	APPENDIX H	PASS	-----
15.247(a)(1)	Maximum Output Power	APPENDIX I	PASS	-----
15.247(d)	Conducted Spurious Emission	APPENDIX J	PASS	-----
15.203	Antenna Requirement	-----	PASS	Note(2)

Note:

(1) "N/A" denotes test is not applicable in this test report

(2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Dalang, Dongguan, Guangdong People's Republic of China.

BTL's Registration Number for FCC: 747969

BTL's Designation Number for FCC: CN1377

2.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95.45% confidence level (based on a coverage factor ($k=2$))

The BTL measurement uncertainty as below table:

A. AC Power Line Conducted Emissions test:

Test Site	Method	Measurement Frequency Range	U_1 (dB)
DGDLC02	CISPR	150kHz ~ 30MHz	2.66

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	U_1 (dB)
DGDLCB03	CISPR	9kHz ~ 30MHz	2.26

Test Site	Method	Measurement Frequency Range	Ant. H / V	U_1 (dB)
DGDLCB03 (3m)	CISPR	30MHz ~ 200MHz	V	4.40
		30MHz ~ 200MHz	H	3.62
		200MHz ~ 1,000MHz	V	4.58
		200MHz ~ 1,000MHz	H	3.98

Test Site	Method	Measurement Frequency Range	U_1 (dB)
DGDLCB03 (3m)	CISPR	1GHz ~ 6GHz	4.16
		6GHz ~ 18GHz	4.74

Test Site	Method	Measurement Frequency Range	U_1 (dB)
DGDLCB03 (1m)	CISPR	18 ~ 26.5 GHz	4.30

C. Other Measurement:

Test Item	Uncertainty
Conducted Spurious Emission	2.1 dB
Conducted Bandedge Emission	1.7 dB
Maximum Output Power	1.3 dB
Bandwidth	0.75 %
Temperature	0.7 °C
Humidity	1.7 %

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

2.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	25°C	54%	AC 120V/60Hz	Hayden Chen
Radiated Emissions -9 kHz to 30 MHz	22°C	50%	AC 120V/60Hz	Hayden Chen
Radiated Emissions -30 MHz to 1000 MHz	24°C	51%	AC 120V/60Hz	Calvin Wen
Radiated Emissions -Above 1000 MHz	22°C	47%	AC 120V/60Hz	Torin Long
Radiated Emissions -Above 18000 MHz	24°C	51%	AC 120V/60Hz	Calvin Wen
Number of Hopping Frequency	23°C	49%	AC 120V/60Hz	Jay Wei
Average Time of Occupancy	23°C	49%	AC 120V/60Hz	Jay Wei
Hopping Channel Separation	23°C	49%	AC 120V/60Hz	Jay Wei
Bandwidth	23°C	49%	AC 120V/60Hz	Jay Wei
Maximum Output Power	23°C	49%	AC 120V/60Hz	Jay Wei
Conducted Spurious Emission	23°C	49%	AC 120V/60Hz	Jay Wei

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	4G LTE Desk Phone
Brand Name	Yealink
Test Model	T74LTE(US)
Model Name	T74LTE(US)
Model Difference(s)	N/A
Hardware Version	190.1.0.0.1.2.2
Software Version	190.87.259.401
Power Source	1# Battery supplied. 2# DC Voltage supplied from AC adapter. (1) Model: YLPS052000C1-US (2) Model: YLPS052000B1-US
Power Rating	1# 3000mAh, 3.6V, 10.8Wh 2# I/P: 100-240V~ 50/60Hz 0.5A O/P: 5V $\overline{\text{---}}$ 2.0A
Operation Frequency	2402 MHz ~ 2480 MHz
Modulation Type	GFSK, $\pi/4$ -DQPSK, 8-DPSK
Bit Rate of Transmitter	1Mbps, 2Mbps, 3Mbps
Max. Output Power	3Mbps: 3.68 dBm (0.0023 W)

Note:

1. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

2. Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

3. Table for Filed Antenna:

Ant.	Manufactory	Model Name	Antenna Type	Connector	Gain (dBi)
1	YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.	T74LTE	PCB	N/A	0.69

3.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
Mode 1	TX Mode_1Mbps Channel 00/39/78
Mode 2	TX Mode_2Mbps Channel 00/39/78
Mode 3	TX Mode_3Mbps Channel 00/39/78
Mode 4	TX Mode_3Mbps Channel 00

Following mode(s) was (were) found to be the worst case(s) and selected for the final test.

AC power line conducted emissions test	
Final Test Mode	Description
Mode 4	TX Mode_3Mbps Channel 00

Radiated emissions test - Below 1GHz & Above 18 GHz	
Final Test Mode	Description
Mode 4	TX Mode_3Mbps Channel 00

Radiated emissions test - 1 GHz - 18 GHz	
Final Test Mode	Description
Mode 1	TX Mode_1Mbps Channel 00/39/78
Mode 3	TX Mode_3Mbps Channel 00/39/78

Maximum Output Power	
Final Test Mode	Description
Mode 1	TX Mode_1Mbps Channel 00/39/78
Mode 2	TX Mode_2Mbps Channel 00/39/78
Mode 3	TX Mode_3Mbps Channel 00/39/78

Other Conducted test	
Final Test Mode	Description
Mode 1	TX Mode_1Mbps Channel 00/39/78
Mode 3	TX Mode_3Mbps Channel 00/39/78

Note:

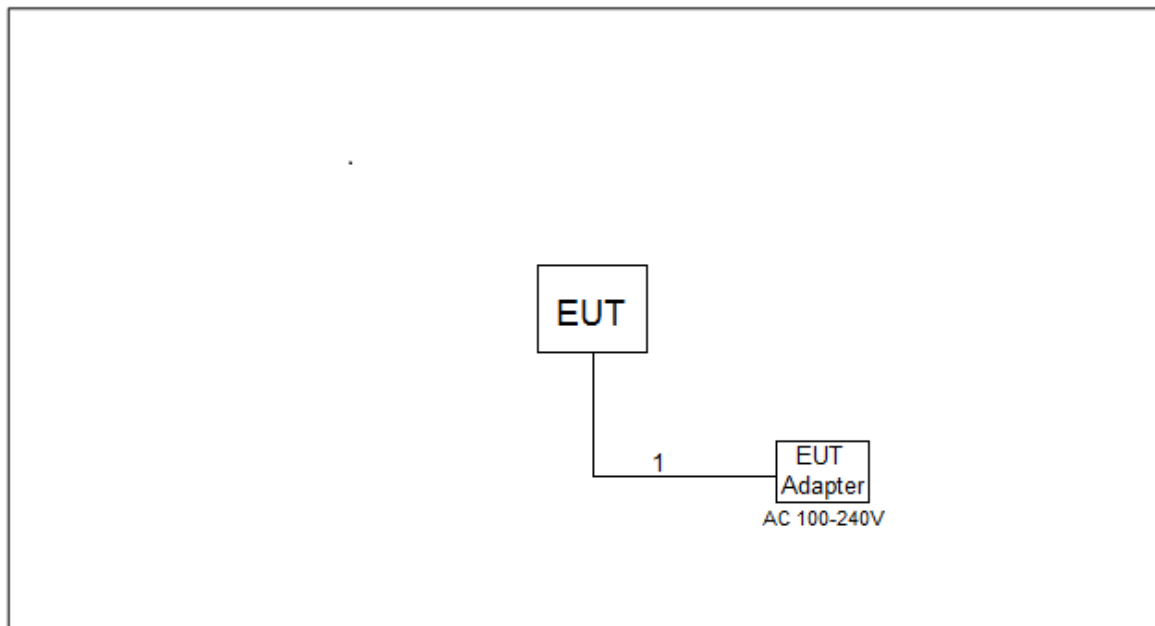
- (1) The measurements for Output Power were tested with DH1/3/5 during 1Mbps, 2Mbps and 3Mbps, the worst case were 1Mbps (DH5) and 3Mbps (DH5), only worst case were documented for other test items except Average Time of Occupancy.
- (2) For radiated emission above 1 GHz test, the spurious points of 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (3) For radiated emissions below 1 GHz test, Battery Supply and Adapter Supply are evaluated, the worst case is Adapter Supply and recorded.
- (4) For AC power line conducted emissions and radiated emissions below 1 GHz test, all adapters had been pre-tested and in this report only recorded the worst case.
- (5) For AC power line conducted emissions and radiated spurious emissions below 1 GHz test, the 2Mbps Channel 00 is found to be the worst case and recorded.
- (6) For radiated emission Harmonic 18-26.5GHz test, only tested the worst case and recorded.
- (7) For radiated emission above 1 GHz test, the polarization of Vertical and Horizontal are evaluated, the worst case is Horizontal and recorded.

3.3 PARAMETERS OF TEST SOFTWARE

During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

Test Software Version	RfTestTool		
Frequency (MHz)	2402	2441	2480
1Mbps	Default	Default	Default
2Mbps	Default	Default	Default
3Mbps	Default	Default	Default

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
-	-	-	-	-

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1.2m

3.6 CUSTOMER INFORMATION DESCRIPTION

- 1) The antenna gain is provided by the manufacturer.
- 2) Except for AC power line conducted emissions and radiated emissions, the results of all test items include cable losses. Part of the cable losses (1dB) are provided by the manufacturer, while the other parts of the cable losses are provided by the testing laboratory.

4. AC POWER LINE CONDUCTED EMISSIONS

4.1 LIMIT

Frequency of Emission (MHz)	Limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.5 - 5.0	56	46
5.0 - 30.0	60	50

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)
 Margin Level = Measurement Value - Limit Value

4.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

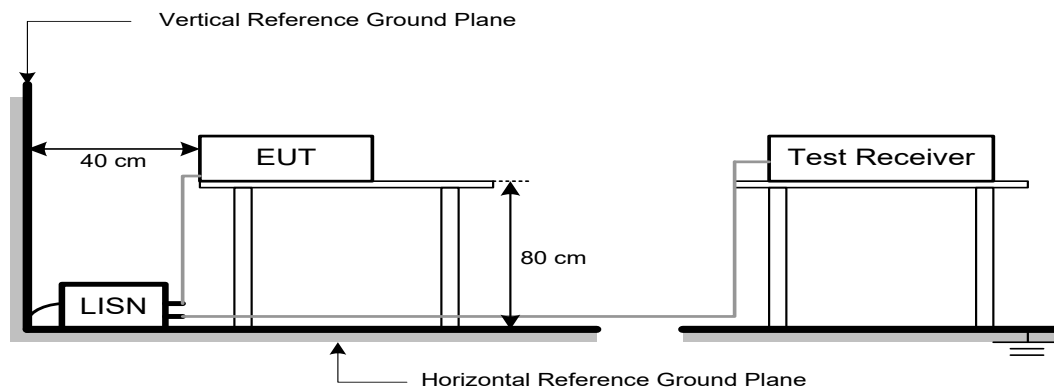
The following table is the setting of the receiver:

Receiver Parameters	Setting
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

4.3 DEVIATION FROM TEST STANDARD

No deviation.

4.4 TEST SETUP



4.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical function (as a customer would normally use it), EUT was programmed to be in continuously transmitting data or hopping on mode.

4.6 TEST RESULTS

Please refer to the APPENDIX A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of 『Note』 . If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform in this case, a "*" marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150 kHz to 30 MHz.

5. RADIATED EMISSIONS

5.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-1000 MHz)

Frequency (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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

Frequency (MHz)	Band edge/ Harmonic at 3m (dBμV/m)		Harmonic at 1m (dBμV/m)	
	Peak	Average	Peak	Average
Above 1000	74	54	83.5 (Note 5)	63.5 (Note 5)

Note:

- (1) The limit for radiated test was performed according to FCC CFR Title 47, Part 15, Subpart C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
 Margin Level = Measurement Value - Limit Value
- (5)

$$FS_{\text{limit}} = FS_{\text{max}} - 20 \log \left(\frac{d_{\text{limit}}}{d_{\text{measure}}} \right)$$

$20 \log (d_{\text{limit}}/d_{\text{measure}})=20 \log (3/1)=9.5 \text{ dB}$.

FS_{limit} : Harmonic at 3m Peak and Average limit.

FS_{max} : Harmonic at 1m Peak and Average Maximum value.

d_{limit} : Harmonic at 3m test distance.

d_{measure} : Harmonic Actual test distance.

5.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- b. The measuring distance of 3 m or 1m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. 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 find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
(below 1 GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
- i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

The following table is the setting of the receiver:

Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~150 kHz for RBW 200 Hz
Start ~ Stop Frequency	0.15 MHz~30 MHz for RBW 9 kHz
Start ~ Stop Frequency	30 MHz~1000 MHz for RBW 100 kHz

Spectrum Parameters	Setting
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1 MHz / 3 MHz for PK value 1 MHz / 1/T Hz for AVG value

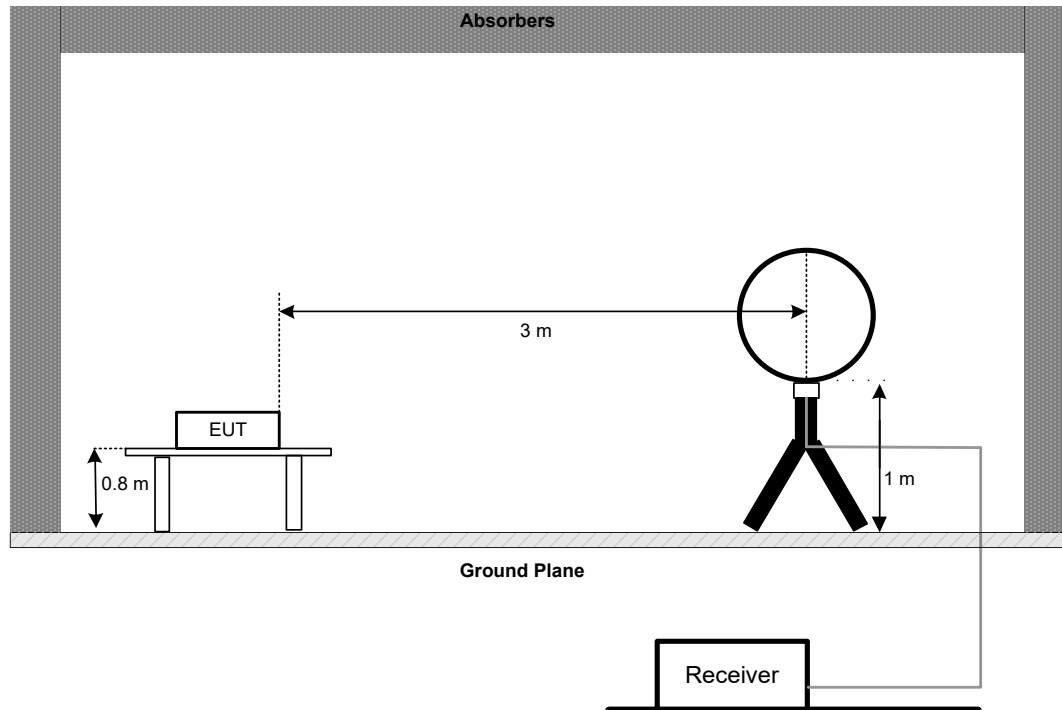
Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector
Start ~ Stop Frequency	1 GHz~26.5 GHz for PK/AVG detector

5.3 DEVIATION FROM TEST STANDARD

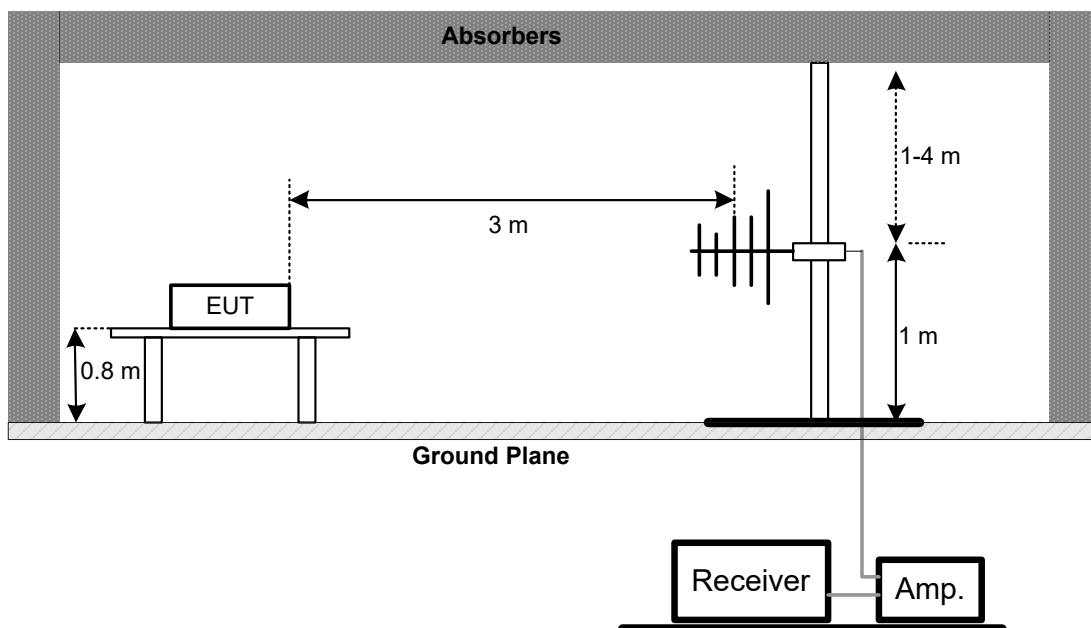
No deviation.

5.4 TEST SETUP

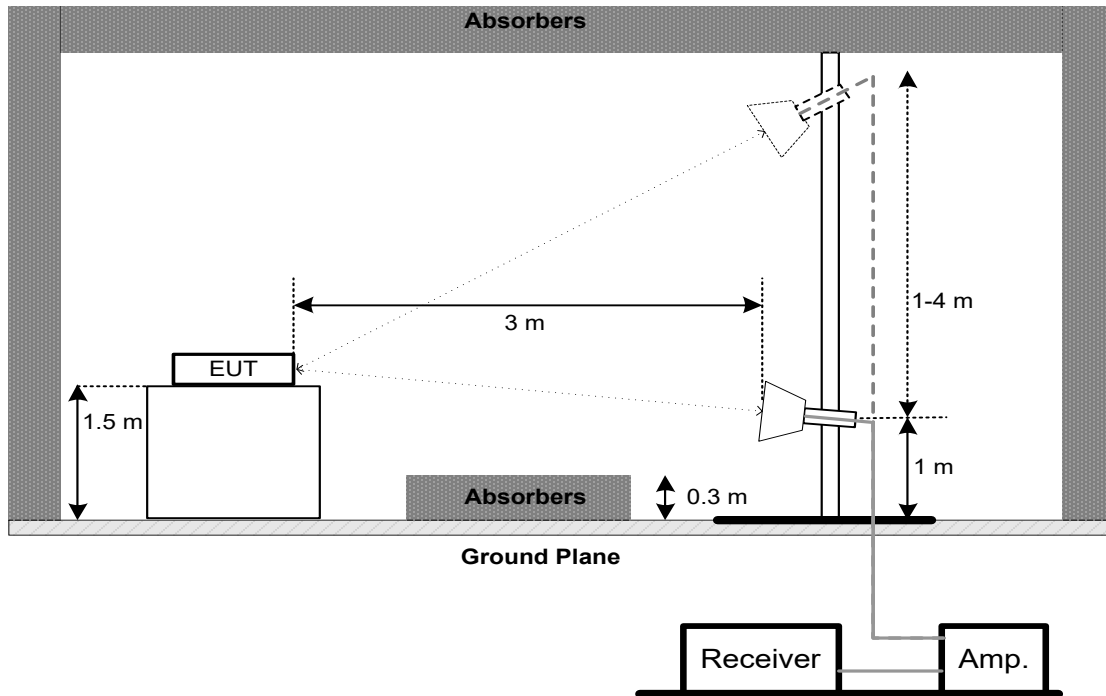
9 kHz to 30 MHz



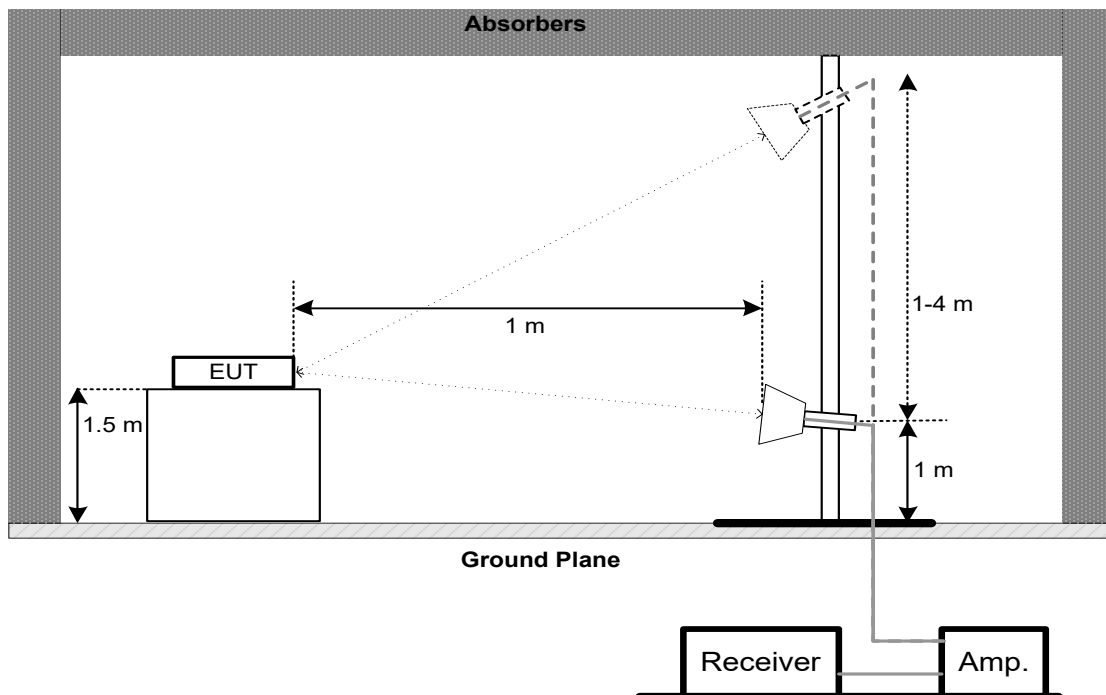
30 MHz to 1 GHz



**Above 1 GHz
Band edge & Harmonic(1 GHz to 18 GHz)**



Harmonic(18 GHz to 26.5 GHz)



5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS - 9 kHz TO 30 MHz

Please refer to the APPENDIX B.

Remark:

- (1) Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.

5.7 TEST RESULTS - 30 MHz TO 1000 MHz

Please refer to the APPENDIX C.

5.8 TEST RESULTS - ABOVE 1000 MHz

Please refer to the APPENDIX D.

Remark:

- (1) No limit: This is fundamental signal, the judgment is not applicable.
For fundamental signal judgment was referred to Peak output test.

6. NUMBER OF HOPPING FREQUENCY

6.1 LIMIT

Section	Test Item	Limit
FCC 15.247(a)(1)(iii)	Number of Hopping Frequency	15

6.2 TEST PROCEDURE

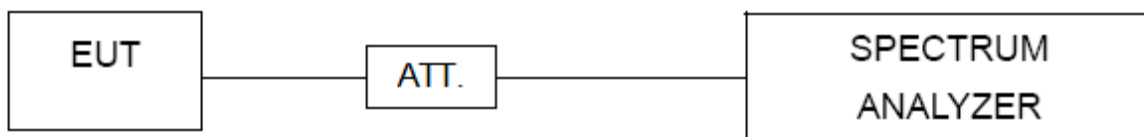
- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Span	Operating Frequency Range
RBW	100 kHz
VBW	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULTS

Please refer to the APPENDIX E.

7. AVERAGE TIME OF OCCUPANCY

7.1 LIMIT

Section	Test Item	Limit
FCC 15.247(a)(1)(iii)	Average Time of Occupancy	0.4s

7.2 TEST PROCEDURE

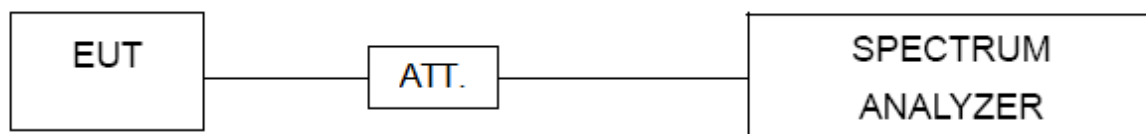
- Set the EUT for DH1, DH3 and DH5 packet transmitting.
- Measure the maximum time duration of one single pulse.
- DH1 Packet permit maximum $1600 / 79 / 2 = 10.12$ hops per second in each channel (1 time slot TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times $10.12 \times 31.6 = 320$ within 31.6 seconds.
- DH3 Packet permit maximum $1600 / 79 / 4 = 5.06$ hops per second in each channel (3 time slots TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times $5.06 \times 31.6 = 160$ within 31.6 seconds.
- DH5 Packet permit maximum $1600 / 79 / 6 = 3.37$ hops per second in each channel (5 time slots TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times $3.37 \times 31.6 = 106.6$ within 31.6 seconds.
- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Span	0 Hz
RBW	300 kHz
VBW	1 MHz
Detector	Peak
Trace	Clear Write
Sweep Time	As necessary to capture the entire dwell time per hopping channel

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

Please refer to the APPENDIX F.

8. HOPPING CHANNEL SEPARATION

8.1 LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

8.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Span	Wide enough to capture the peaks of two adjacent channels
RBW	300 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULTS

Please refer to the Appendix G.

9. BANDWIDTH

9.1 LIMIT

Section	Test Item
FCC 15.247(a)(1)	Bandwidth

9.2 TEST PROCEDURE

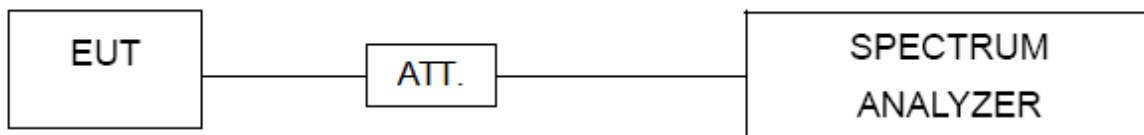
- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Span	> Measurement Bandwidth
RBW	30 kHz
VBW	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP



9.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

9.6 TEST RESULTS

Please refer to the APPENDIX H.

10. MAXIMUM OUTPUT POWER

10.1 LIMIT

Section	Test Item	Limit
FCC 15.247(a)(1)	Maximum Output Power	0.1250 Watt or 20.97 dBm

Note: Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

10.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Span	Approximately five times the 20 dB bandwidth, centered on a hopping channel.
RBW	3 MHz
VBW	10 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

10.3 DEVIATION FROM STANDARD

No deviation.

10.4 TEST SETUP



10.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

10.6 TEST RESULTS

Please refer to the APPENDIX I.

11. CONDUCTED SPURIOUS EMISSION

11.1 LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak Output Power limits. If the transmitter complies with the Output Power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required.

11.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

For Emission Level - Band edge:

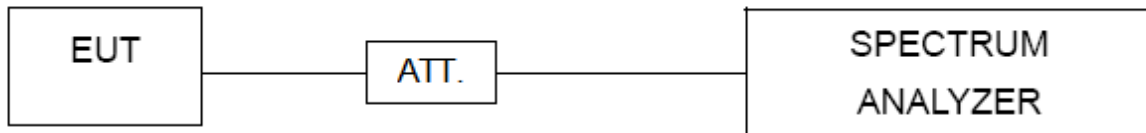
Spectrum Parameters	Setting
Start Frequency	2300 MHz
Stop Frequency	2690 MHz
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For Emission Level - Harmonic:

Spectrum Parameters	Setting
Start Frequency	30 MHz
Stop Frequency	26.5 GHz
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

11.3 DEVIATION FROM STANDARD

No deviation.

11.4 TEST SETUP**11.5 EUT OPERATION CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

11.6 TEST RESULTS

Please refer to the APPENDIX J.

12. MEASUREMENT INSTRUMENTS LIST

AC Power Line Conducted Emissions (Test Date: Dec. 22, 2025)					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI TEST RECEIVER	R&S	ESCI	100382	Nov. 21, 2026
2	TWO-LINE V-NETWORK	R&S	ENV216	101447	Nov. 21, 2026
3	BTL_RE_System	BTL	BTL_RE_System	N/A	N/A
4	Cable	N/A	SFT205-NMNM-9M-001	9M	Jul. 08, 2026
5	643 Shield Room	ETS	6*4*3	N/A	N/A

Radiated Emissions - 9 kHz to 30 MHz (Test Date: Dec. 30, 2025)					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Active Loop Antenna	Schwarzbeck	FMZB 1513-60	00025	Mar. 01, 2026
2	Receiver	Agilent	N9038A	MY52130039	Jan. 10, 2026
3	Cable	RegalWay	LMR400-NMNM-6m	N/A	Apr. 26, 2026
4	Cable	RegalWay	LMR400-NMRANM-3.5m	N/A	Apr. 26, 2026
5	966 Chamber room	CM	9*6*6	N/A	May 09, 2026
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - 30 MHz to 1 GHz (Test Date: Jan. 04, 2026)					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	01462	Dec. 07, 2026
2	Attenuator	EMC INSTRUMENT	EMCI-N-6-06	AT-06009	Dec. 07, 2026
3	Preamplifier	EMC INSTRUMENT	EMC001330	980998	May 17, 2026
4	Cable	RegalWay	LMR400-NMNM-12.5m	N/A	Jun. 04, 2026
5	Cable	RegalWay	LMR400-NMNM-3m	N/A	Jun. 04, 2026
6	Cable	RegalWay	LMR400-NMNM-0.5m	N/A	Jun. 04, 2026
7	Receiver	Agilent	N9038A	MY52130039	Jul. 25, 2026
8	Positioning Controller	MF	MF-7802	N/A	N/A
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
10	966 Chamber room	CM	9*6*6	N/A	May 15, 2026

Radiated Emissions - 1 GHz - 18 GHz
(Test Date: Jan. 09, 2026)

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Receiver	Agilent	N9038A	MY52130039	Jul. 25, 2026
2	Preamplifier	EMC INSTRUMENT	EMC118A45SE	980888	Oct. 17, 2026
3	Double Ridged Guide Antenna	ETS	3115	75846	Mar0 02, 2026
4	Cable	RegalWay	RWLP50-4.0A-SMS M-12.5M	N/A	Jun. 29, 2026
5	Cable	RegalWay	RWLP50-4.0A-NM RASM-2.5M	N/A	Jun. 29, 2026
6	Cable	RegalWay	RWLP50-4.0A-NM RASMRA-0.8M	N/A	Jun. 29, 2026
7	966 Chamber room	CM	9*6*6	N/A	May 18, 2026
8	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A
9	Filter	STI	STI15-9912	N/A	May 27, 2026
10	Positioning Controller	MF	MF-7802	N/A	N/A
11	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - Above 18 GHz
(Test Date: Jan. 05, 2026)

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Cable	Tonscend	HF160-KMKM-0.5M	N/A	Oct. 21, 2026
2	Cable	Tonscend	HF160-KMKM-5M	N/A	Oct. 21, 2026
3	Pre-Amplifier	EMC INSTRUMENT	EMC184045SE	980409	Nov. 21, 2026
4	DRG Horn Antenna	ETS	3116C	218942	Feb. 28, 2026
5	Positioning Controller	MF	MF-7802	N/A	N/A
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
7	MXA Signal Analyzer	KEYSIGHT	N9020B	MY63380204	Jul. 25, 2026

**Number of Hopping Frequency &
Average Time of Occupancy &
Hopping Channel Separation &
Bandwidth &
Maximum Output Power &
Conducted Spurious Emission**
(Test Date: Jan. 05, 2026 & Jan. 13, 2026)

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP38	100852	May 27, 2026
2	CTA	BTL	CTA	N/A	N/A
3	Isolation attenuator	Z-Link	ASMA-16-18-2W	N/A	N/A
4	Cable	RegalWay	N/A	RWP50-402-SMSM-1M	N/A
5	Power divider	N/A	PD-2SF-2080	N/A	Nov. 21, 2026
6	wideband radio communication tester	R&S	CMW500	153083	Nov. 21, 2026

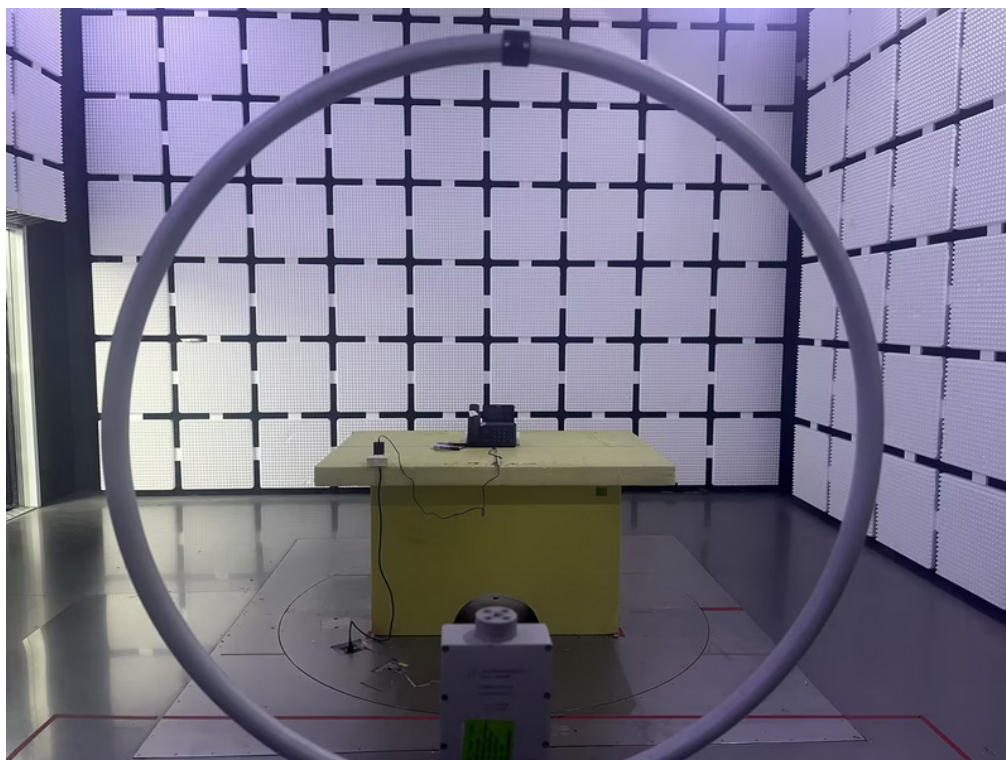
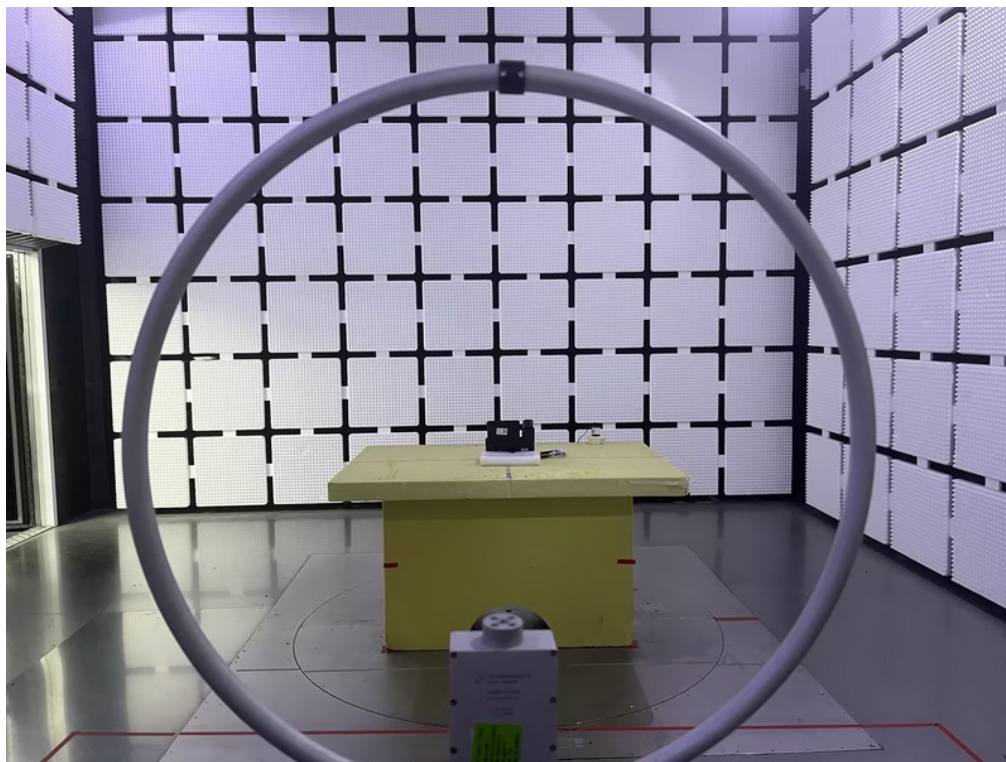
Remark "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

13. EUT TEST PHOTO

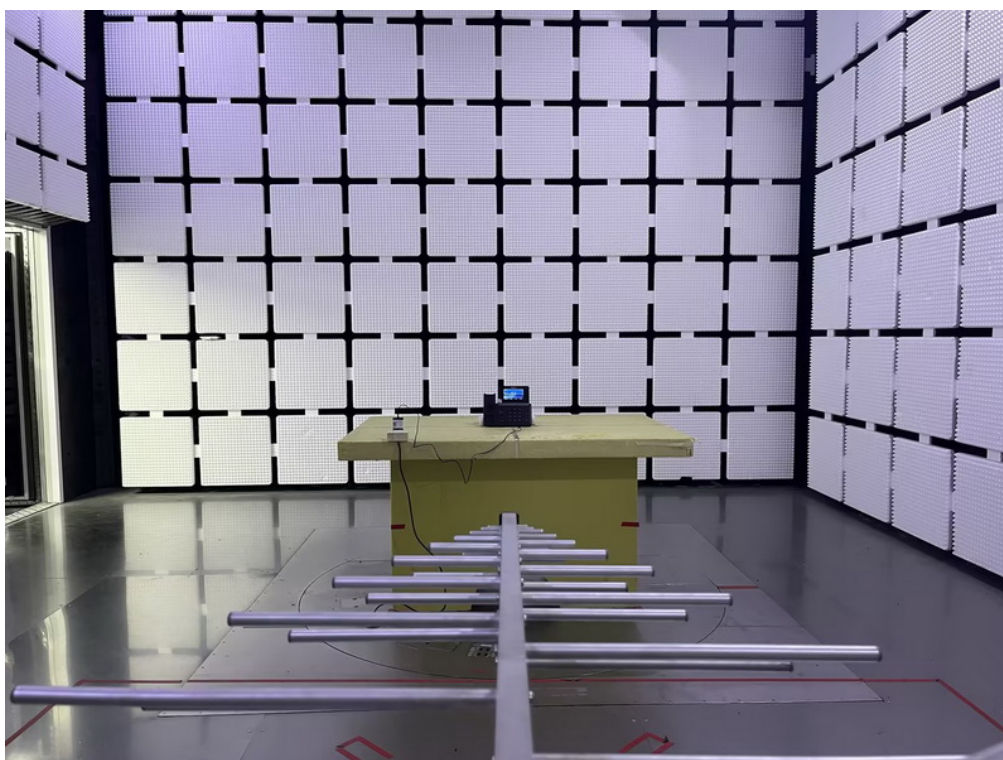
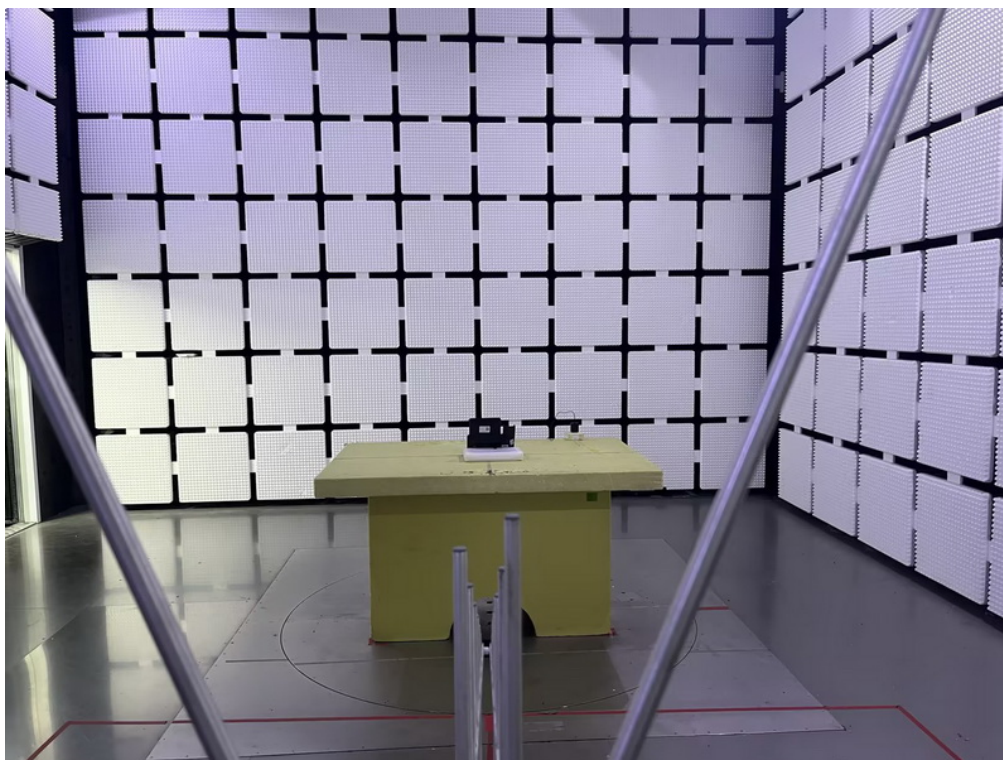
Radiated Emissions Test Photos

9 kHz to 30 MHz



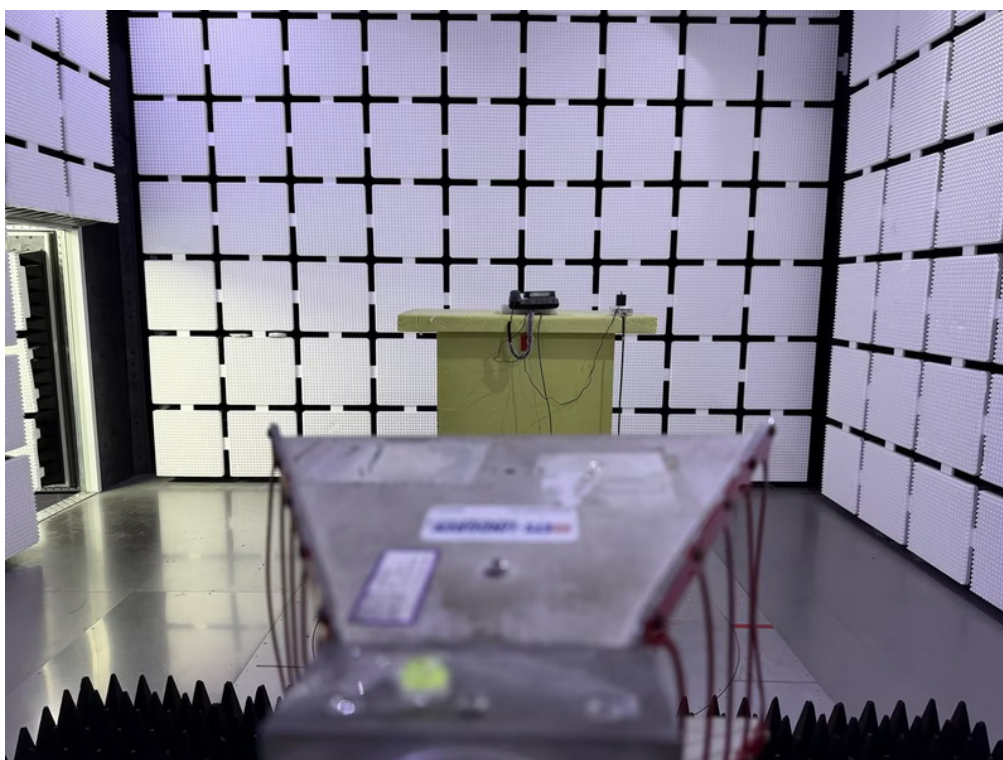
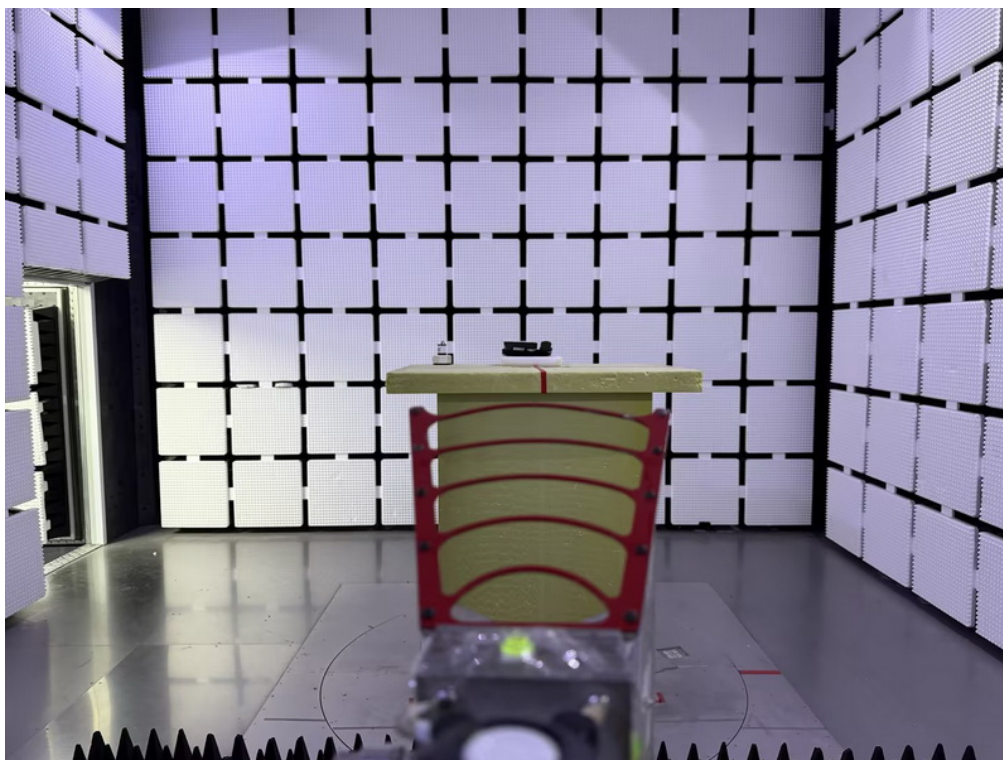
Radiated Emissions Test Photos

30 MHz to 1000 MHz



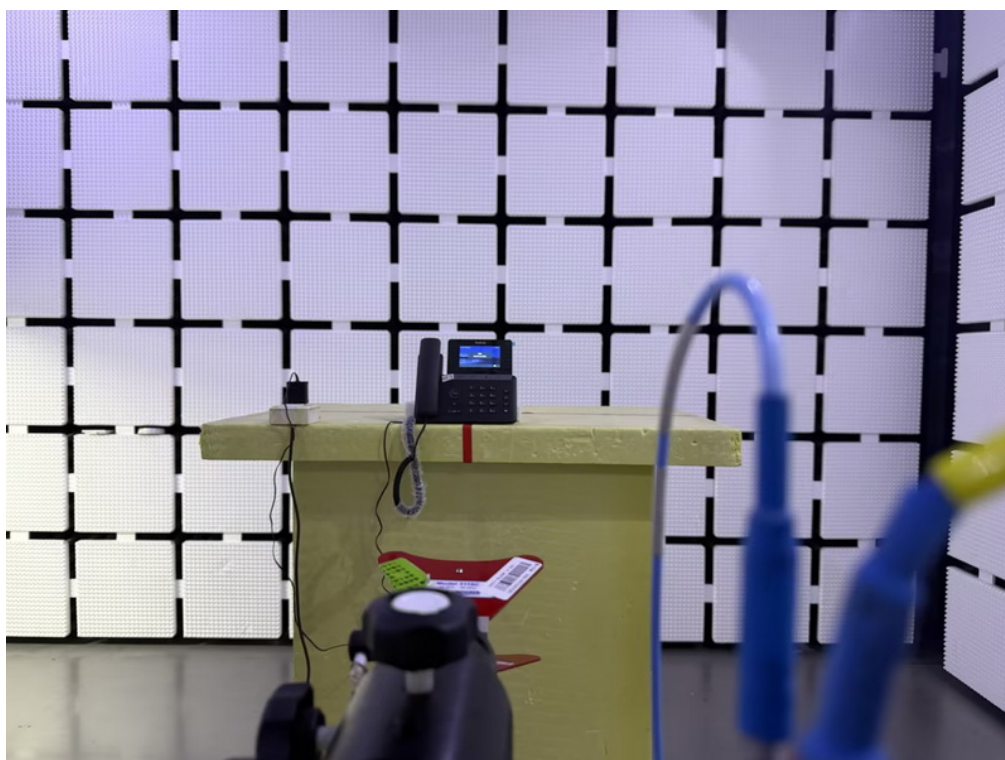
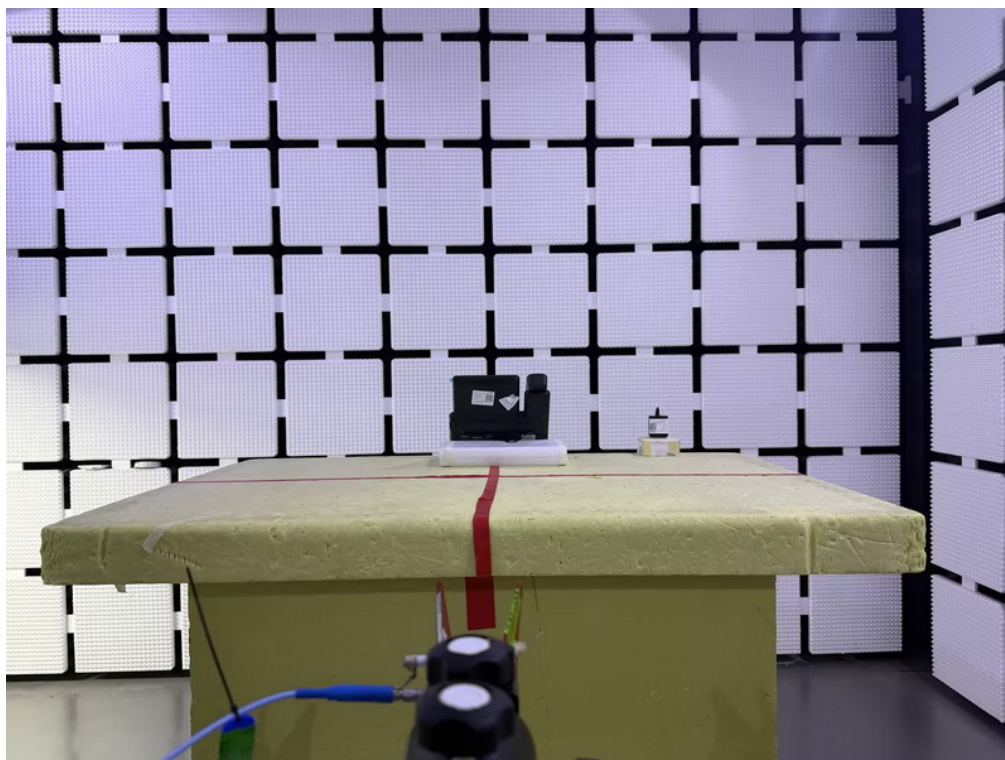
Radiated Emissions Test Photos

Band edge & Harmonic(1 GHz to 18 GHz)

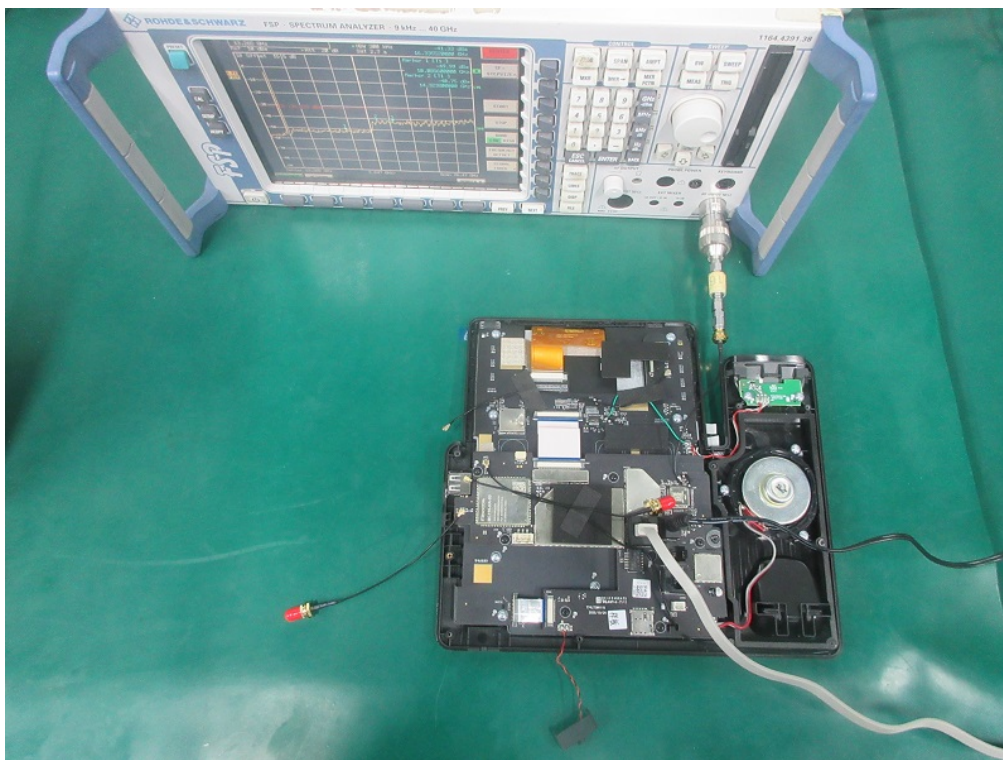


Radiated Emissions Test Photos

Harmonic(18 GHz to 26.5 GHz)

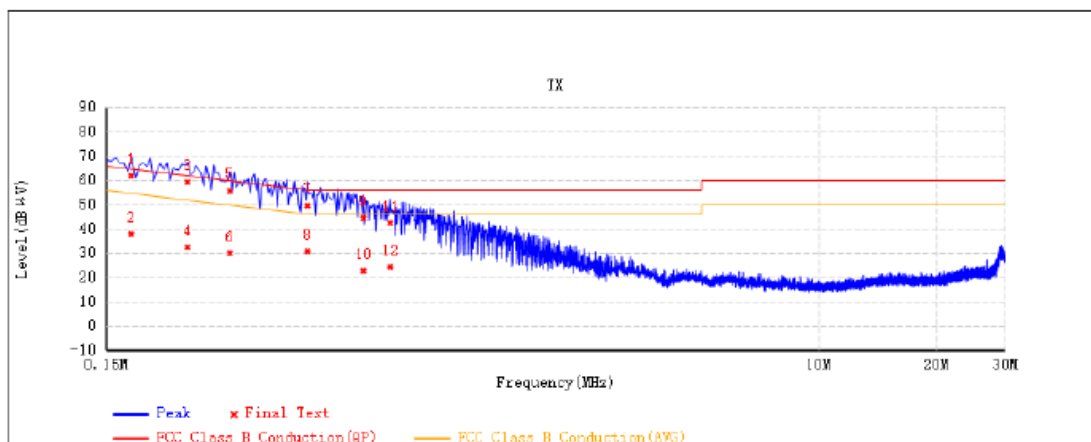


Conducted Test Photos



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode	TX Mode Channel 00_3Mbps	Phase	Line
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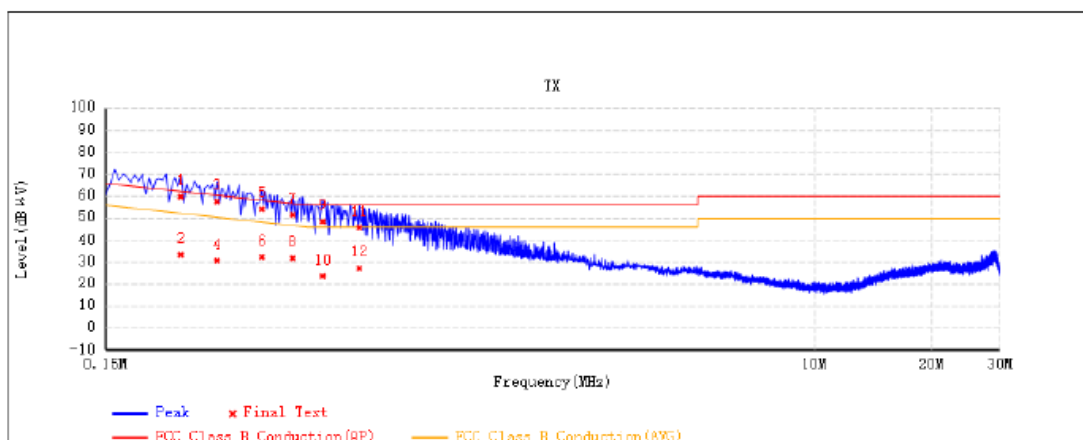


Suspected Note List									
	NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV]	Limit [dBμV]	Margin [dB]	Detector	Content
	1	0.1738	51.59	10.38	61.97	64.78	-2.81	QP	
	2	0.1738	27.62	10.38	38	54.78	-16.78	AVG	
*	3	0.2415	48.98	10.42	59.4	62.04	-2.65	QP	
	4	0.2415	22.28	10.42	32.7	52.04	-19.35	AVG	
	5	0.3105	45.32	10.45	55.77	59.96	-4.19	QP	
	6	0.3105	19.66	10.45	30.11	49.96	-19.85	AVG	
	7	0.4902	39.34	10.48	49.81	56.16	-6.35	QP	
	8	0.4902	20.52	10.48	31	46.16	-15.16	AVG	
	9	0.6823	34.04	10.52	44.56	56	-11.44	QP	
	10	0.6823	12.35	10.52	22.87	46	-23.13	AVG	
	11	0.7977	32.11	10.54	42.65	56	-13.35	QP	
	12	0.7977	14.06	10.54	24.6	46	-21.4	AVG	

REMARKS:

- (1) Level = Reading + Factor.
- (2) Margin = Level - Limit.

Test Mode	TX Mode Channel 00_3Mbps	Phase	Neutral
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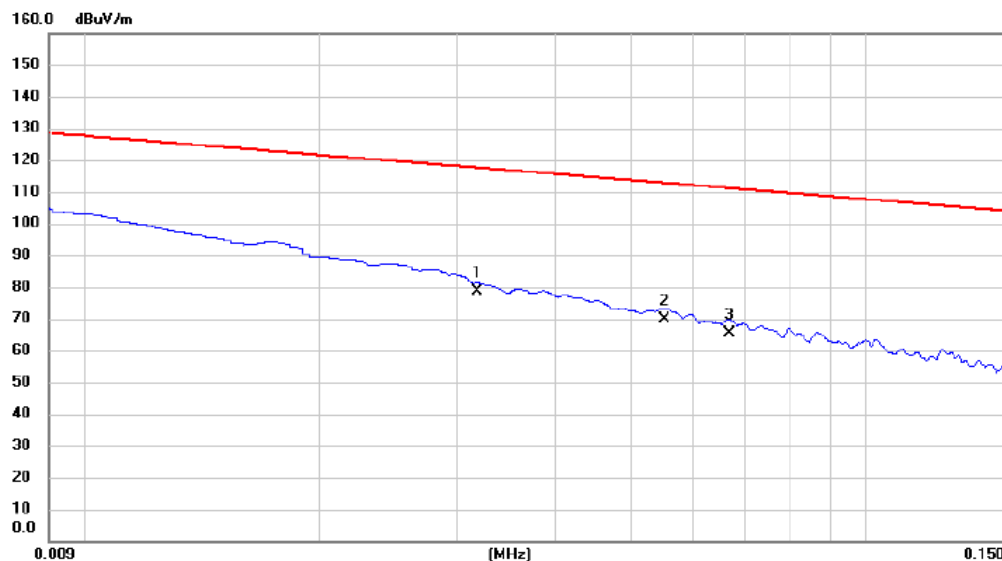
Suspected Note List									
	NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV]	Limit [dBμV]	Margin [dB]	Detector	Content
*	1	0.2338	49.47	10.45	59.92	62.31	-2.39	QP	
	2	0.2338	22.91	10.45	33.36	52.31	-18.96	AVG	
	3	0.2901	47.24	10.48	57.71	60.52	-2.81	QP	
	4	0.2901	20.3	10.48	30.78	50.52	-19.75	AVG	
	5	0.3779	43.7	10.49	54.19	58.33	-4.13	QP	
	6	0.3779	21.99	10.49	32.48	48.33	-15.85	AVG	
	7	0.4545	41.15	10.5	51.65	56.79	-5.14	QP	
	8	0.4545	21.32	10.5	31.83	46.79	-14.97	AVG	
	9	0.542	38.13	10.52	48.65	56	-7.35	QP	
	10	0.542	13.2	10.52	23.72	46	-22.28	AVG	
	11	0.6739	35.24	10.54	45.78	56	-10.22	QP	
	12	0.6739	16.71	10.54	27.24	46	-18.76	AVG	

REMARKS:

- (1) Level = Reading + Factor.
- (2) Margin = Level - Limit.

APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

Test Mode	TX Mode Channel 00 _3Mbps	Polarization	Ant 0°
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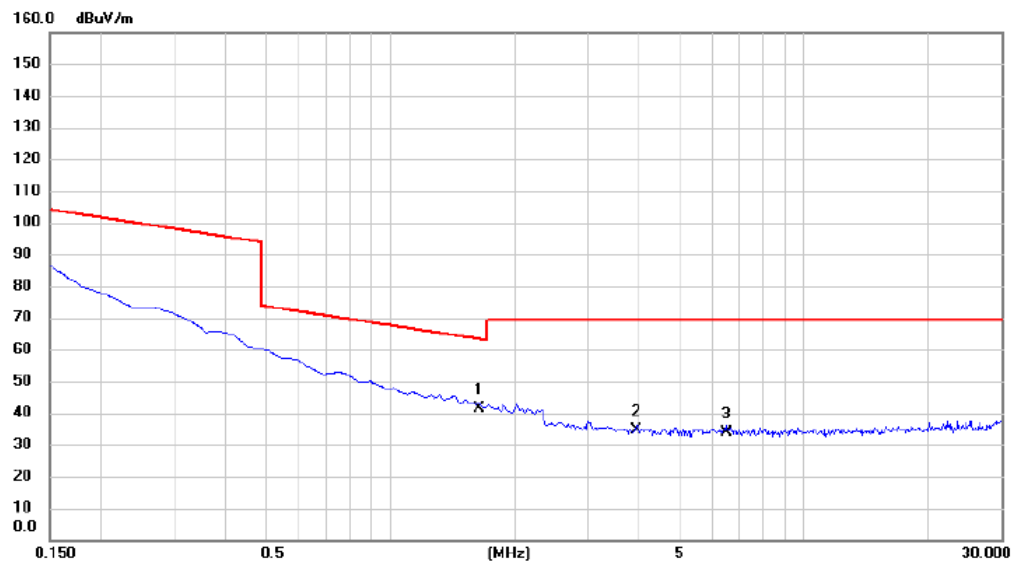
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.032	58.64	20.14	78.78	117.56	-38.78	AVG	
2		0.055	49.61	20.14	69.75	112.77	-43.02	AVG	
3		0.067	45.23	20.14	65.37	111.11	-45.74	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX Mode Channel 00 _3Mbps	Polarization	Ant 0°
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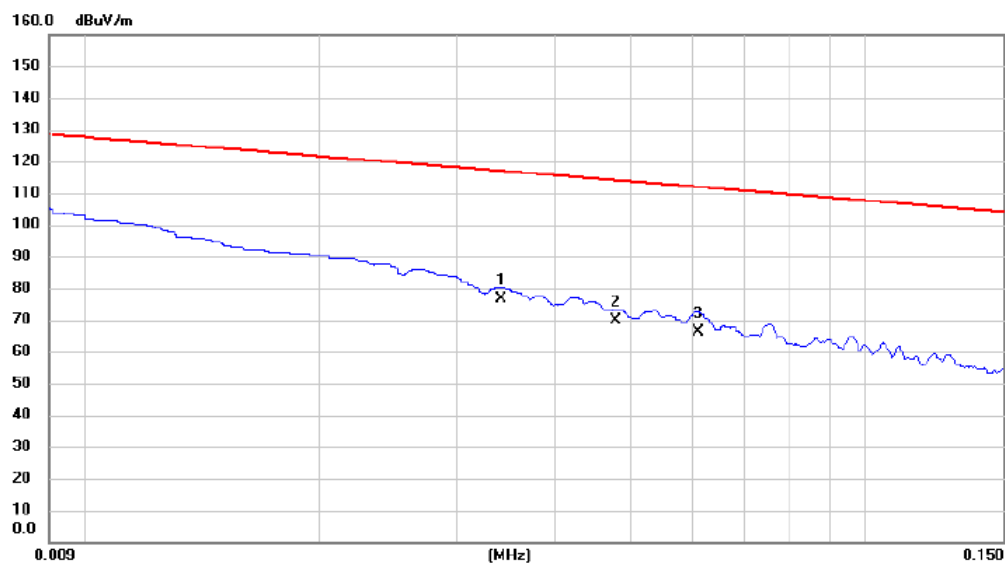
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	1.643	21.25	20.01	41.26	63.29	-22.03	QP	
2		3.941	14.36	20.12	34.48	69.54	-35.06	QP	
3		6.478	13.64	20.27	33.91	69.54	-35.63	QP	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX Mode Channel 00 _3Mbps	Polarization	Ant 90°
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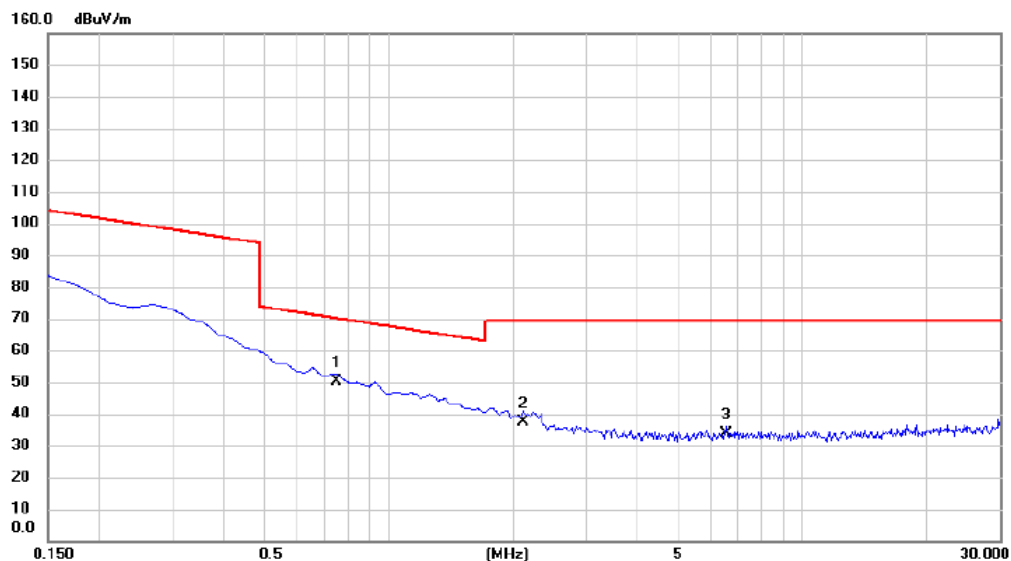
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.034	56.32	20.14	76.46	116.95	-40.49	AVG	
2		0.048	49.55	20.14	69.69	114.02	-44.33	AVG	
3		0.061	46.17	20.14	66.31	111.90	-45.59	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX Mode Channel 00 _3Mbps	Polarization	Ant 90°
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No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.747	30.21	19.98	50.19	70.14	-19.95	QP	
2	2.120	17.49	20.02	37.51	69.54	-32.03	QP	
3	6.568	13.41	20.28	33.69	69.54	-35.85	QP	

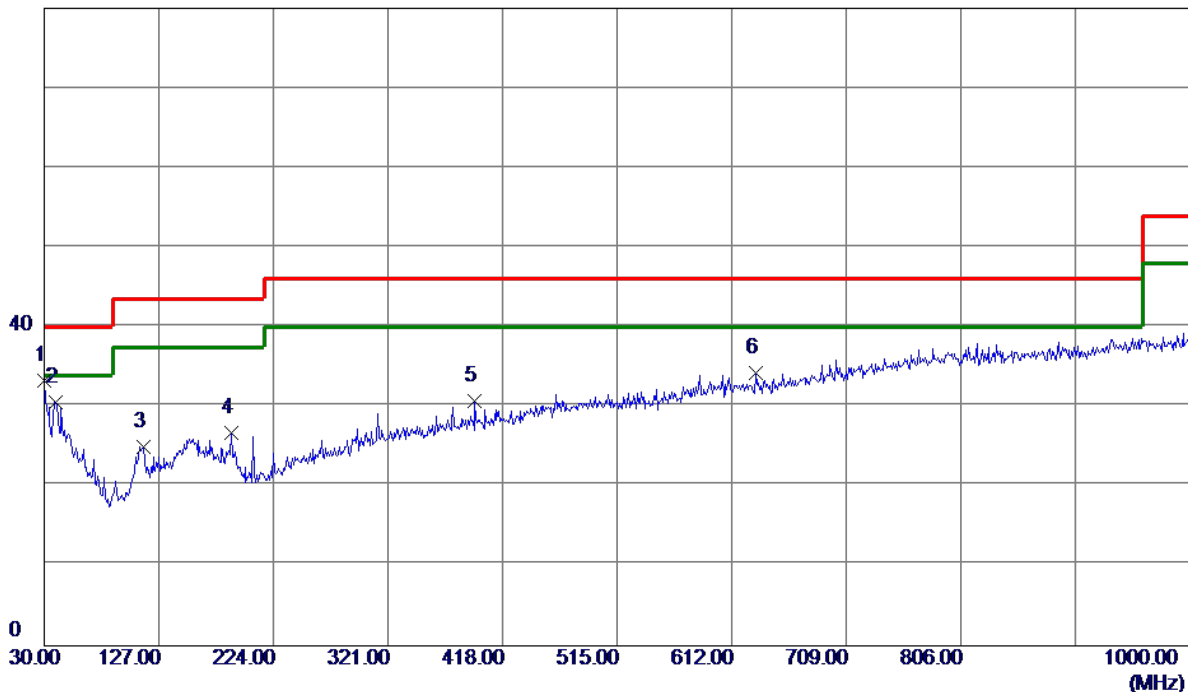
REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

Test Mode	TX Mode Channel 00 _3Mbps	Polarization	Vertical
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80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	30.0000	44.76	-11.44	33.32	40.00	-6.68	Peak	
2	39.7000	42.32	-11.77	30.55	40.00	-9.45	Peak	
3	114.3900	38.78	-13.82	24.96	43.52	-18.56	Peak	
4	188.1100	39.27	-12.48	26.79	43.52	-16.73	Peak	
5	394.7200	38.45	-7.67	30.78	46.02	-15.24	Peak	
6	632.3700	37.23	-2.99	34.24	46.02	-11.78	Peak	

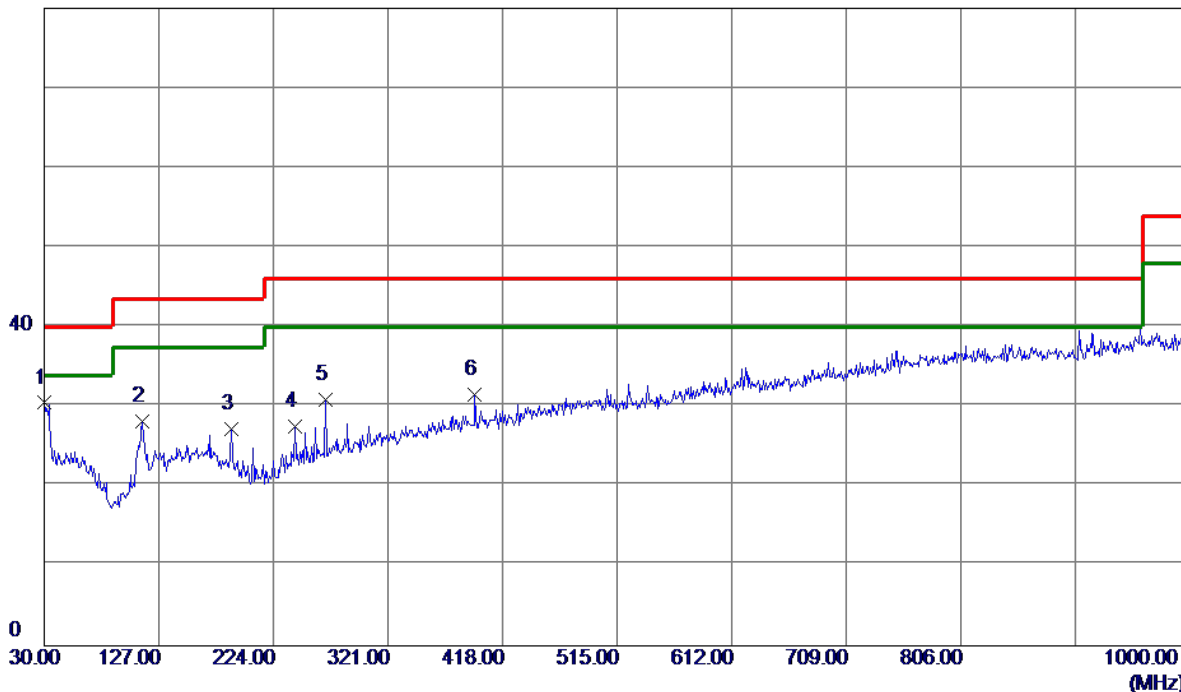
REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX Mode Channel 00 _3Mbps	Polarization	Horizontal
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80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	30.0000	41.92	-11.44	30.48	40.00	-9.52	Peak	
2	113.4200	42.03	-13.89	28.14	43.52	-15.38	Peak	
3	188.1100	39.70	-12.48	27.22	43.52	-16.30	Peak	
4	242.4300	39.23	-11.65	27.58	46.02	-18.44	Peak	
5	268.6200	41.74	-10.79	30.95	46.02	-15.07	Peak	
6	394.7200	39.13	-7.67	31.46	46.02	-14.56	Peak	

REMARKS:

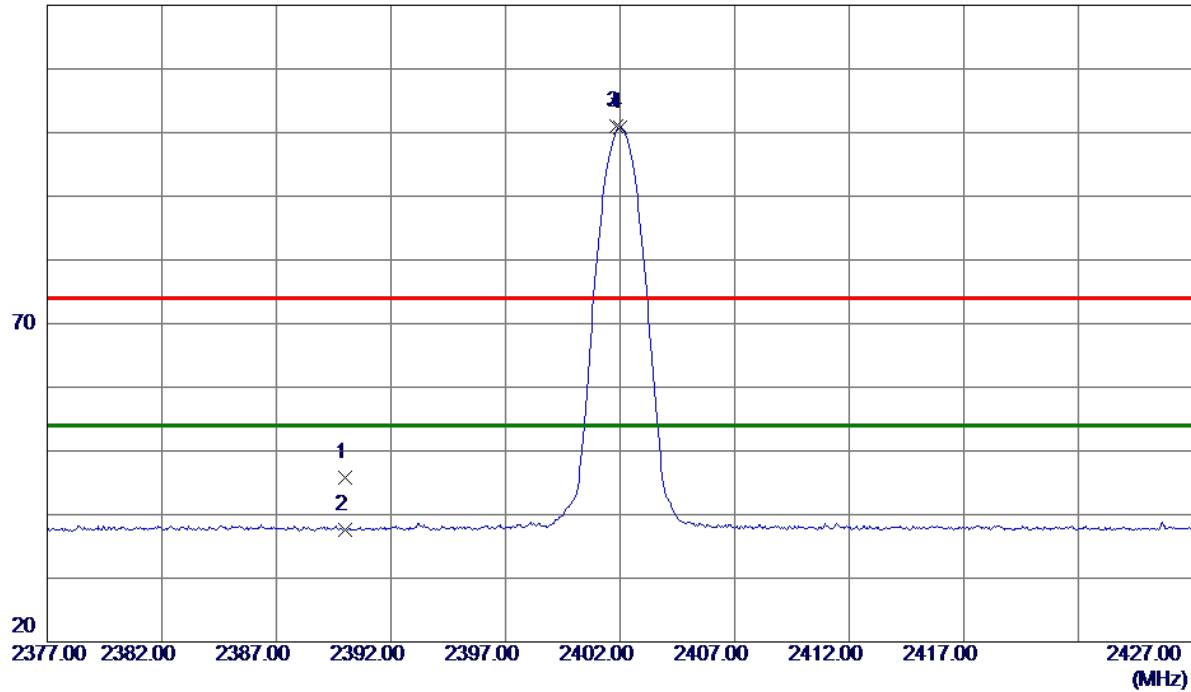
(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ

Test Mode	TX 2402 MHz_CH00_1Mbps	Polarization	Horizontal
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120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	38.01	7.78	45.79	74.00	-28.21	Peak	
2	2390.0000	29.91	7.78	37.69	54.00	-16.31	AVG	
3	2401.8500	93.16	7.80	100.96	74.00	26.96	Peak	No Limit
4 *	2402.0000	92.92	7.80	100.72	54.00	46.72	AVG	No Limit

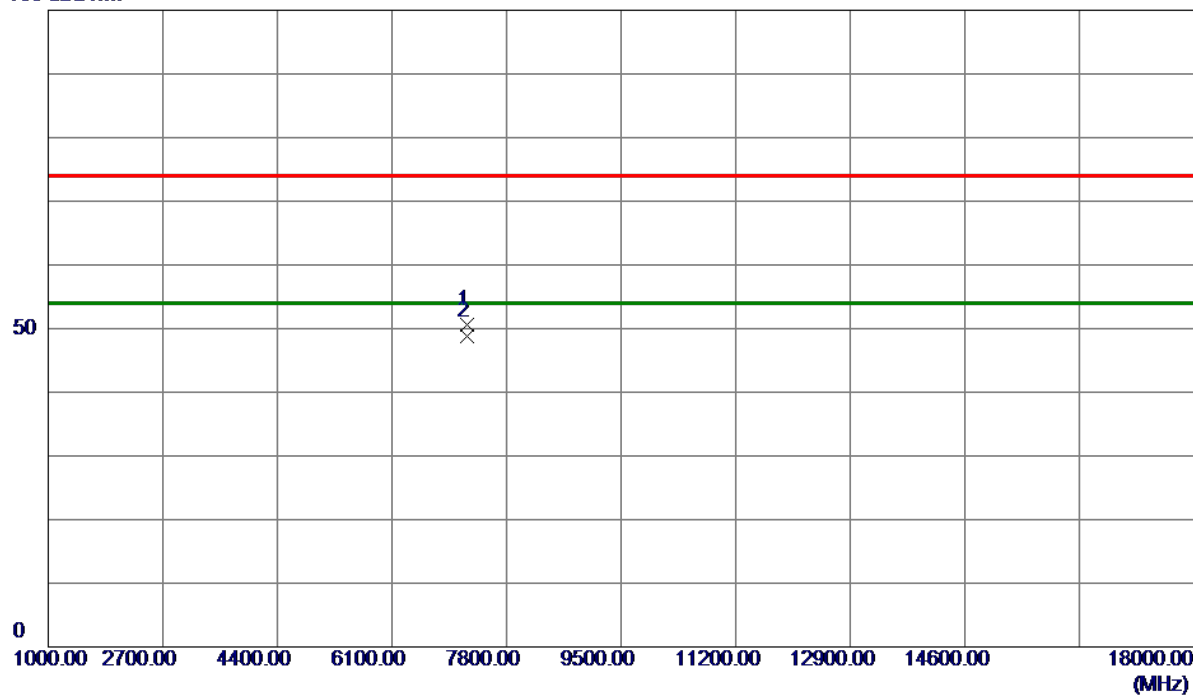
REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2402 MHz_CH00_1Mbps	Polarization	Horizontal
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100 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7205.8500	40.94	9.63	50.57	74.00	-23.43	Peak	
2 *	7205.9500	39.12	9.63	48.75	54.00	-5.25	AVG	

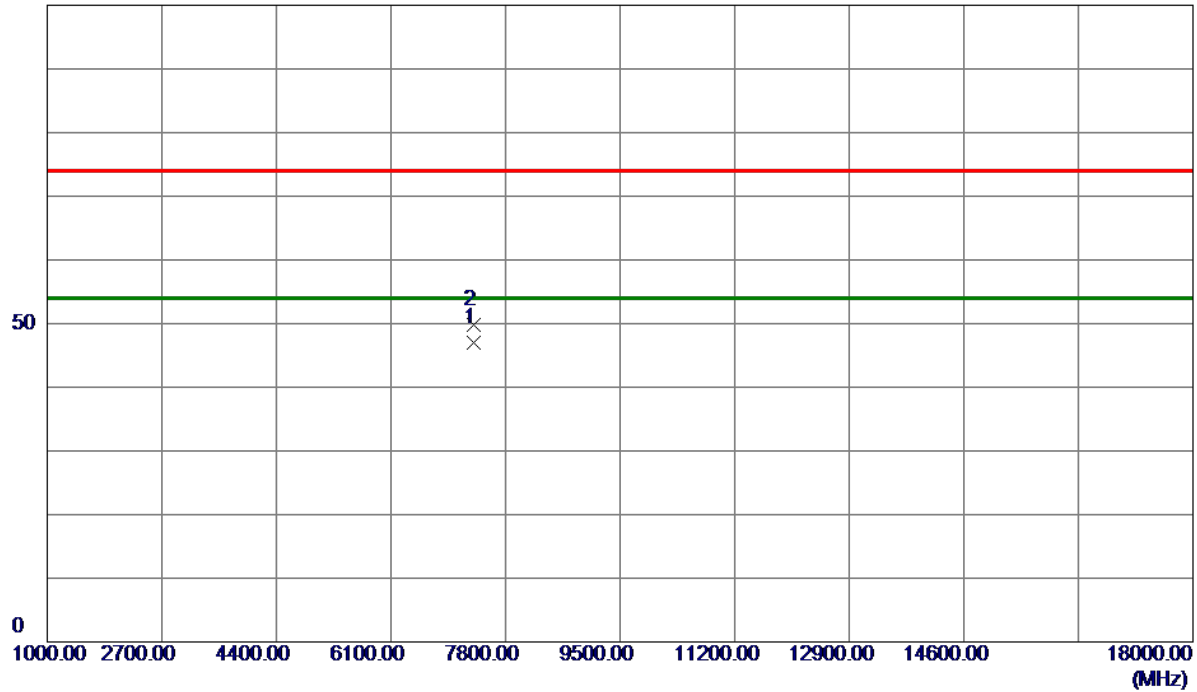
REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2441 MHz_CH39_1Mbps	Polarization	Horizontal
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100 dBuV/m



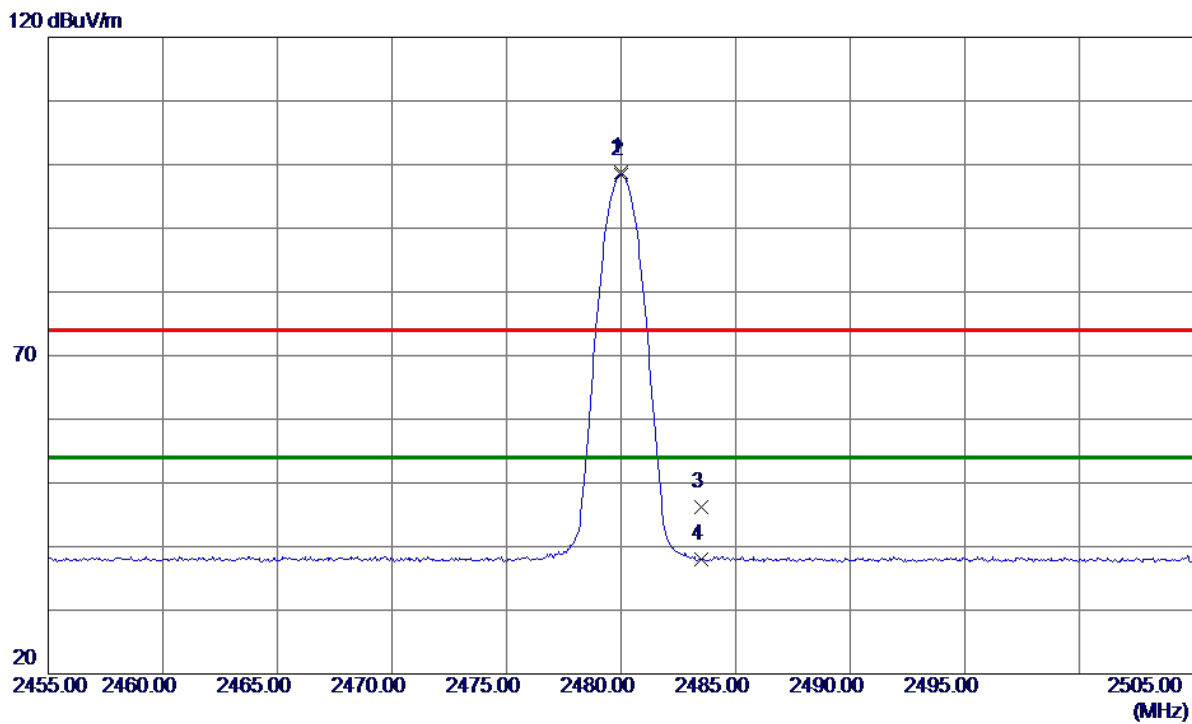
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7322.9500	37.51	9.54	47.05	54.00	-6.95	AVG	
2	7323.0500	40.30	9.54	49.84	74.00	-24.16	Peak	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2480 MHz_CH78_1Mbps	Polarization	Horizontal
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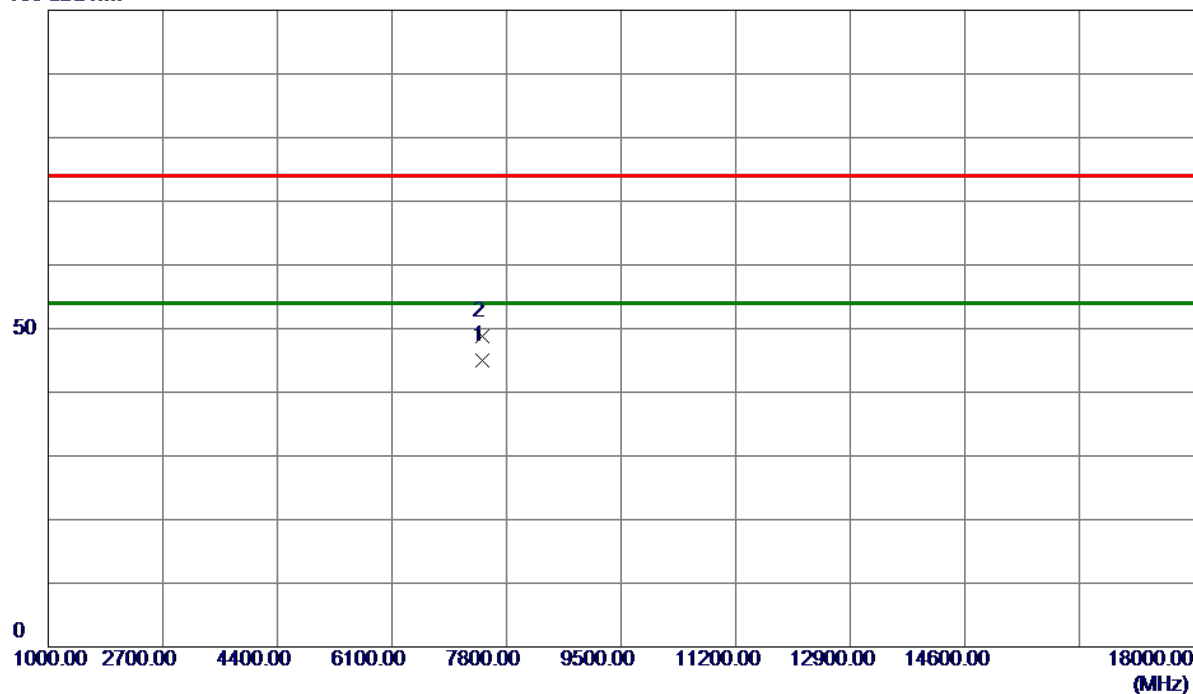
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2480.0000	90.85	7.99	98.84	74.00	24.84	Peak	No Limit
2 *	2480.0000	90.49	7.99	98.48	54.00	44.48	AVG	No Limit
3	2483.5000	38.18	8.00	46.18	74.00	-27.82	Peak	
4	2483.5000	29.91	8.00	37.91	54.00	-16.09	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2480 MHz_CH78_1Mbps	Polarization	Horizontal
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100 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7439.9500	35.61	9.45	45.06	54.00	-8.94	AVG	
2	7440.0000	39.41	9.45	48.86	74.00	-25.14	Peak	

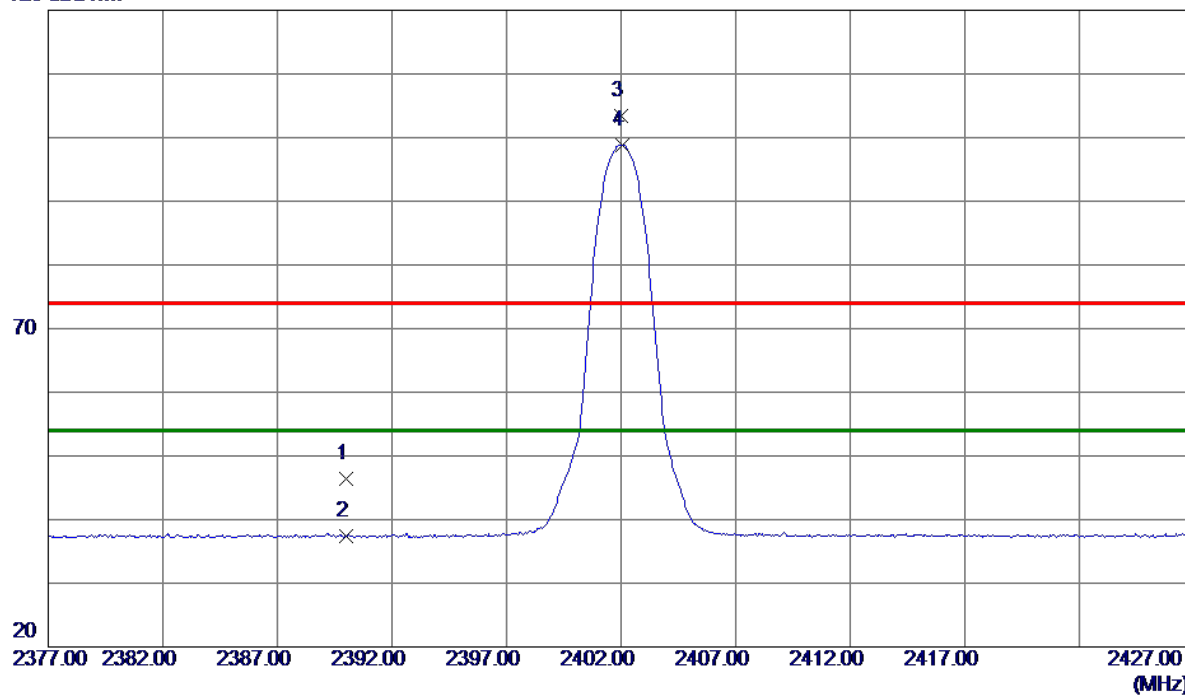
REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2402 MHz_CH00_3Mbps	Polarization	Horizontal
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120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	38.69	7.78	46.47	74.00	-27.53	Peak	
2	2390.0000	29.56	7.78	37.34	54.00	-16.66	AVG	
3	2402.0000	95.65	7.80	103.45	74.00	29.45	Peak	No Limit
4 *	2402.0500	91.06	7.80	98.86	54.00	44.86	AVG	No Limit

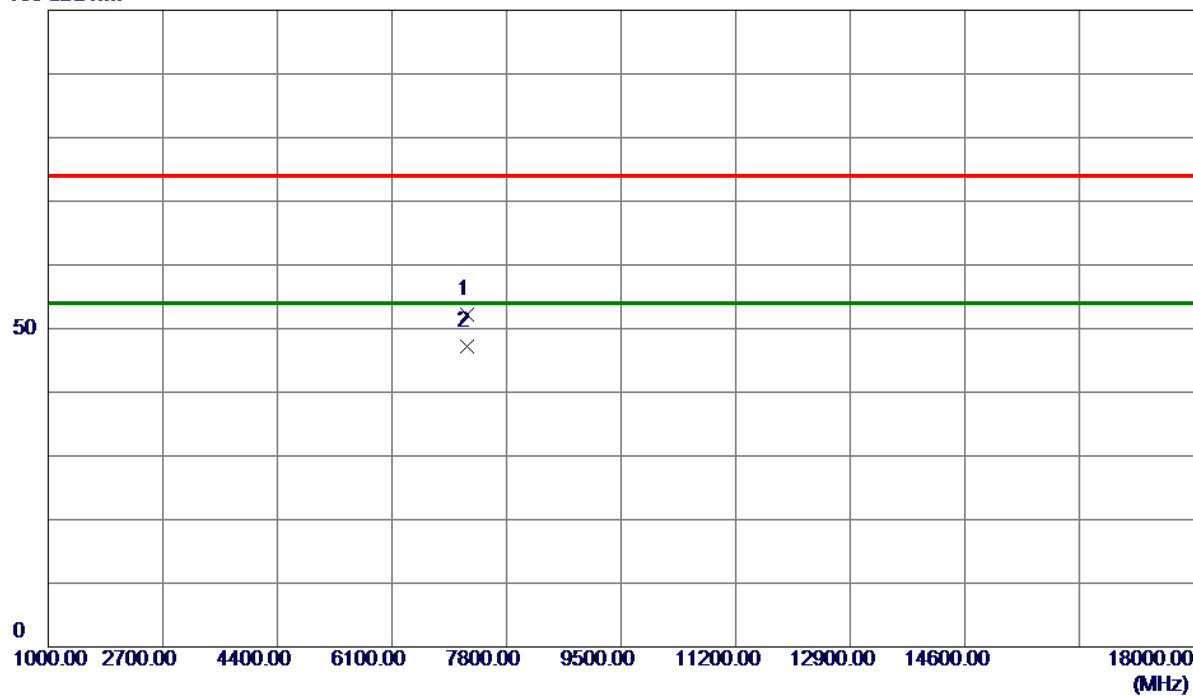
REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2402 MHz_CH00_3Mbps	Polarization	Horizontal
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100 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7206.0000	42.48	9.63	52.11	74.00	-21.89	Peak	
2 *	7206.0000	37.59	9.63	47.22	54.00	-6.78	AVG	

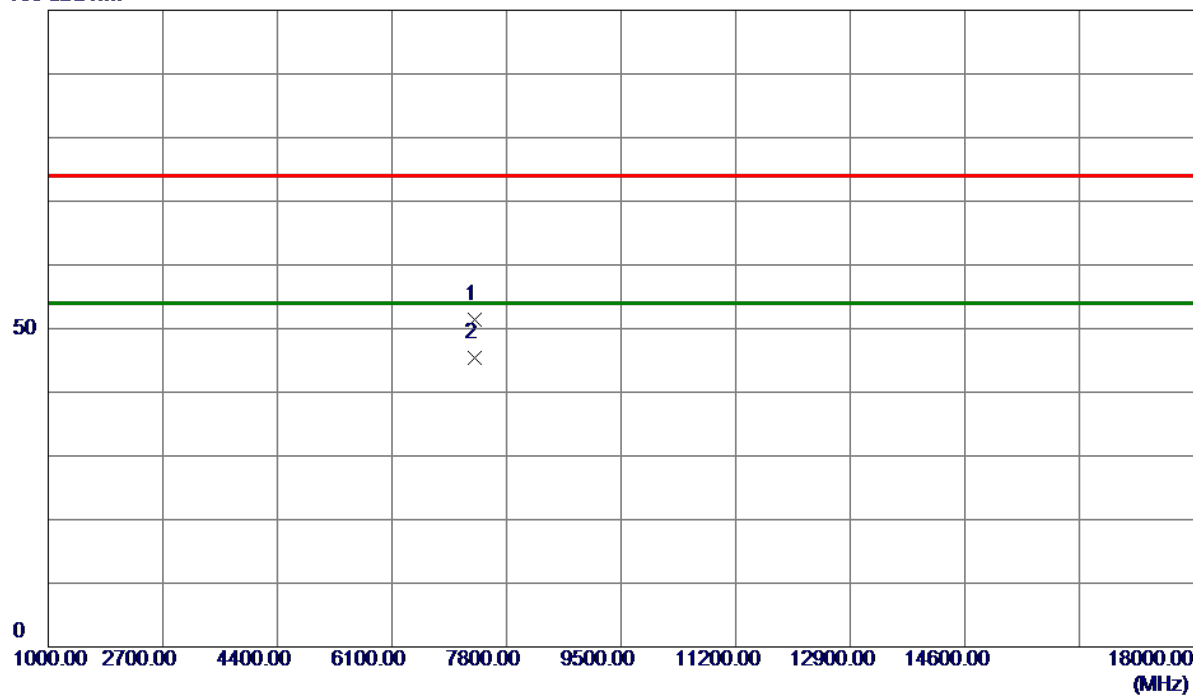
REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2441 MHz_CH39_3Mbps	Polarization	Horizontal
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100 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7322.9000	41.94	9.54	51.48	74.00	-22.52	Peak	
2 *	7322.9500	35.93	9.54	45.47	54.00	-8.53	AVG	

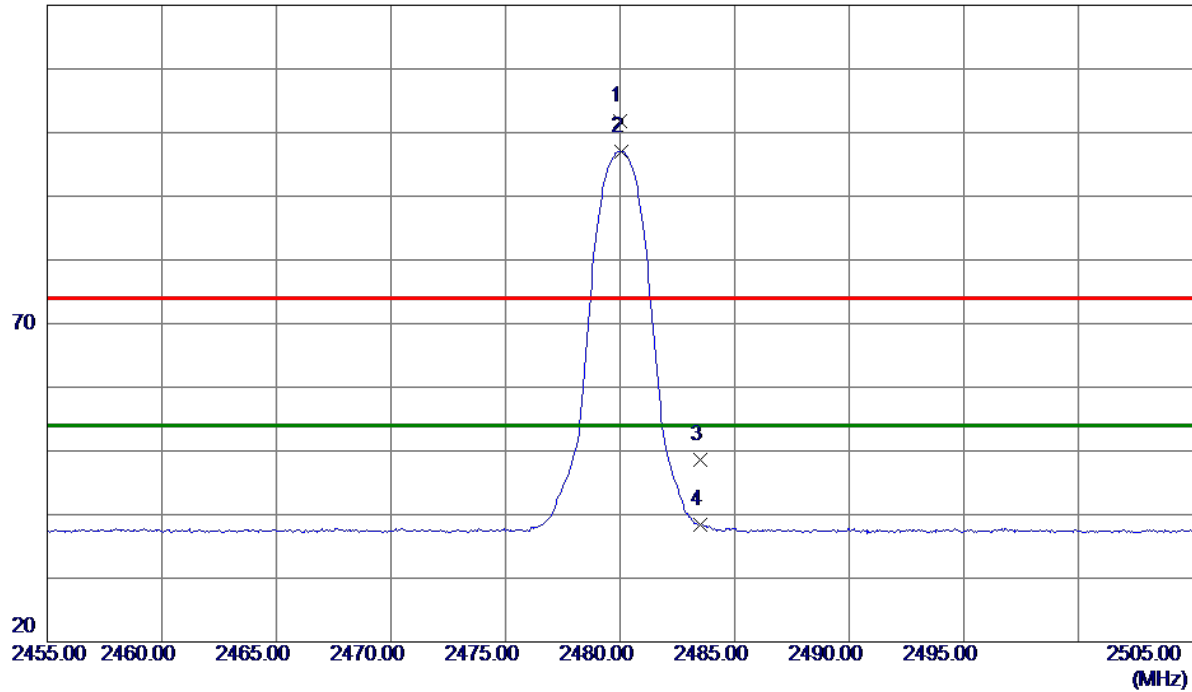
REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2480 MHz_CH78_3Mbps	Polarization	Horizontal
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120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2480.0000	93.78	7.99	101.77	74.00	27.77	Peak	No Limit
2 *	2480.0500	89.06	7.99	97.05	54.00	43.05	AVG	No Limit
3	2483.5000	40.51	8.00	48.51	74.00	-25.49	Peak	
4	2483.5000	30.37	8.00	38.37	54.00	-15.63	AVG	

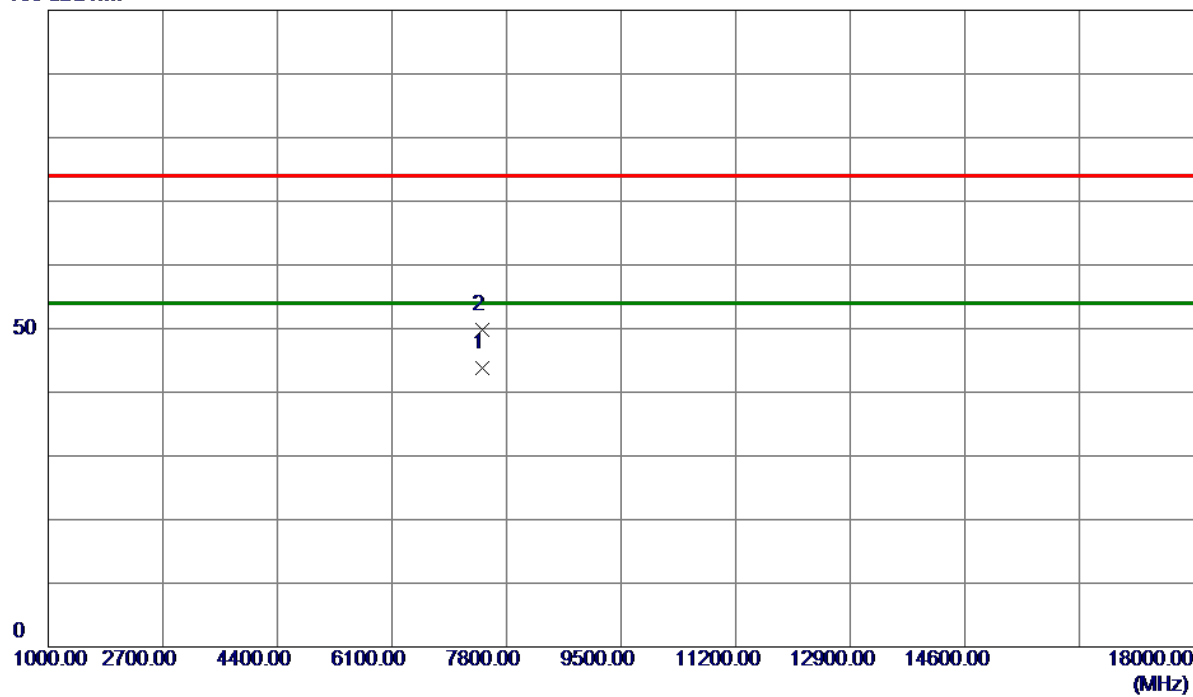
REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2480 MHz_CH78_3Mbps	Polarization	Horizontal
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100 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7439.9500	34.41	9.45	43.86	54.00	-10.14	AVG	
2	7440.0000	40.27	9.45	49.72	74.00	-24.28	Peak	

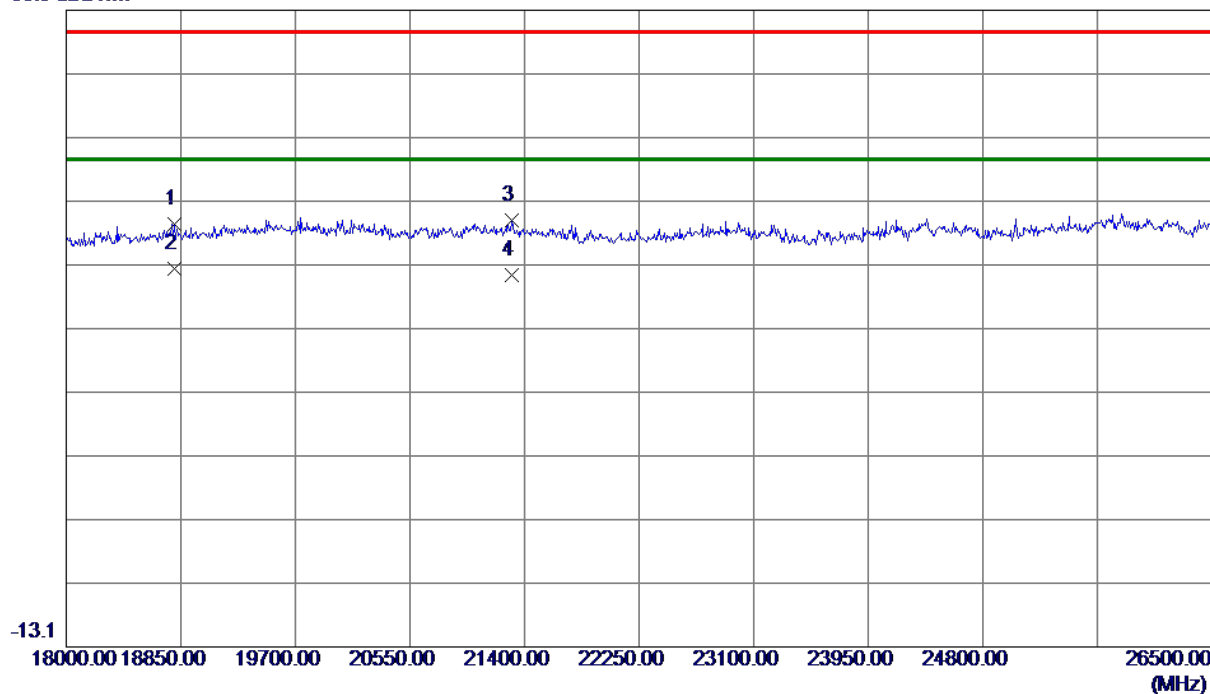
REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2402 MHz_CH00_3Mbps	Polarization	Vertical
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86.9 dBuV/m



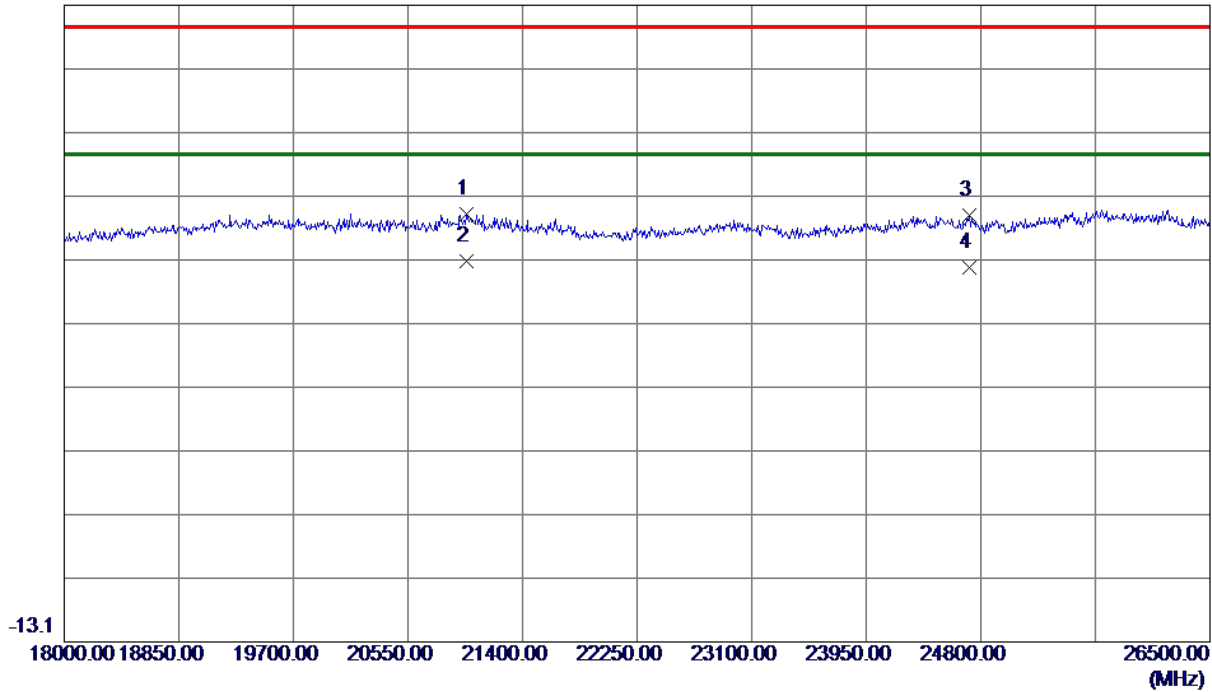
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	18799.0000	50.74	2.60	53.34	83.50	-30.16	Peak	
2 *	18799.0000	43.62	2.60	46.22	63.50	-17.28	AVG	
3	21306.5000	49.83	4.09	53.92	83.50	-29.58	Peak	
4	21306.5000	41.20	4.09	45.29	63.50	-18.21	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2402 MHz_CH00_3Mbps	Polarization	Horizontal
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86.9 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	20983.5000	49.75	4.42	54.17	83.50	-29.33	Peak	
2 *	20983.5000	42.31	4.42	46.73	63.50	-16.77	AVG	
3	24715.0000	48.83	5.06	53.89	83.50	-29.61	Peak	
4	24715.0000	40.67	5.06	45.73	63.50	-17.77	AVG	

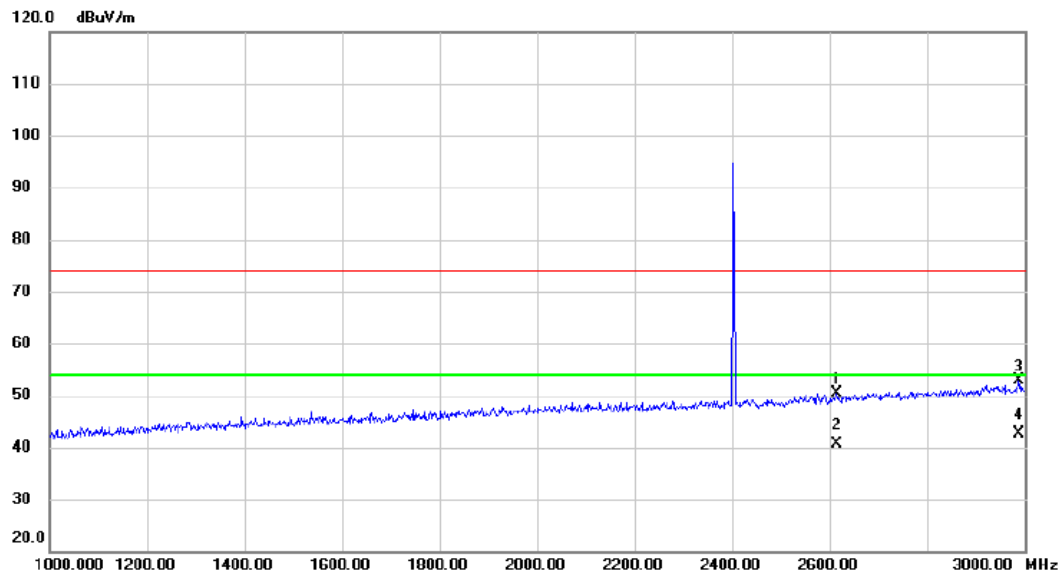
REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

The worst case of 1GHz to 18GHz:

Test Mode	TX 2402 MHz_CH00_1Mbps	Polarization	Vertical
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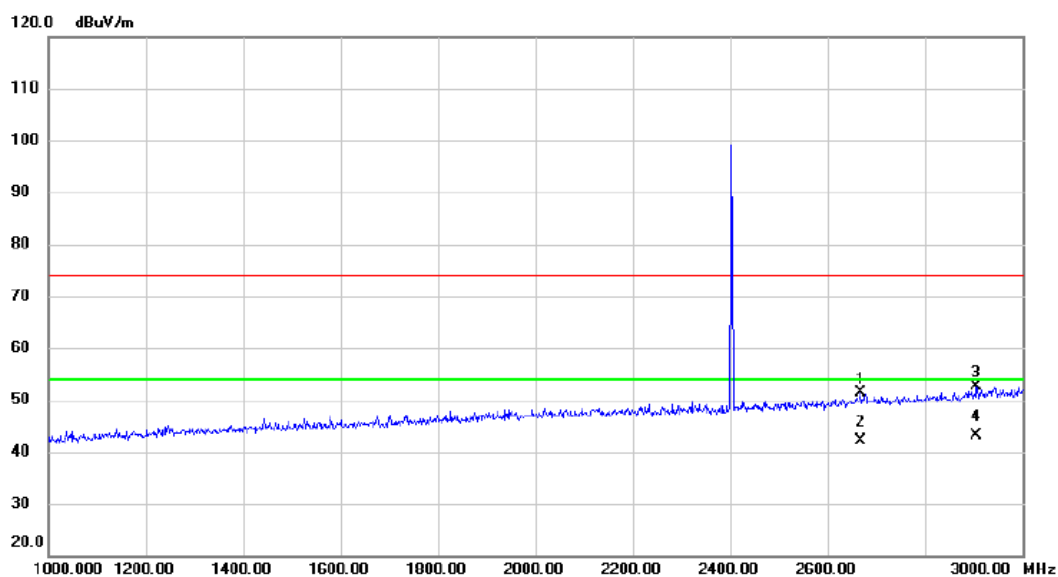
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2614.000	41.71	8.74	50.45	74.00	-23.55	peak	
2		2614.000	31.89	8.74	40.63	54.00	-13.37	AVG	
3		2988.000	41.77	10.99	52.76	74.00	-21.24	peak	
4 *		2988.000	31.54	10.99	42.53	54.00	-11.47	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2402 MHz_CH00_1Mbps	Polarization	Horizontal
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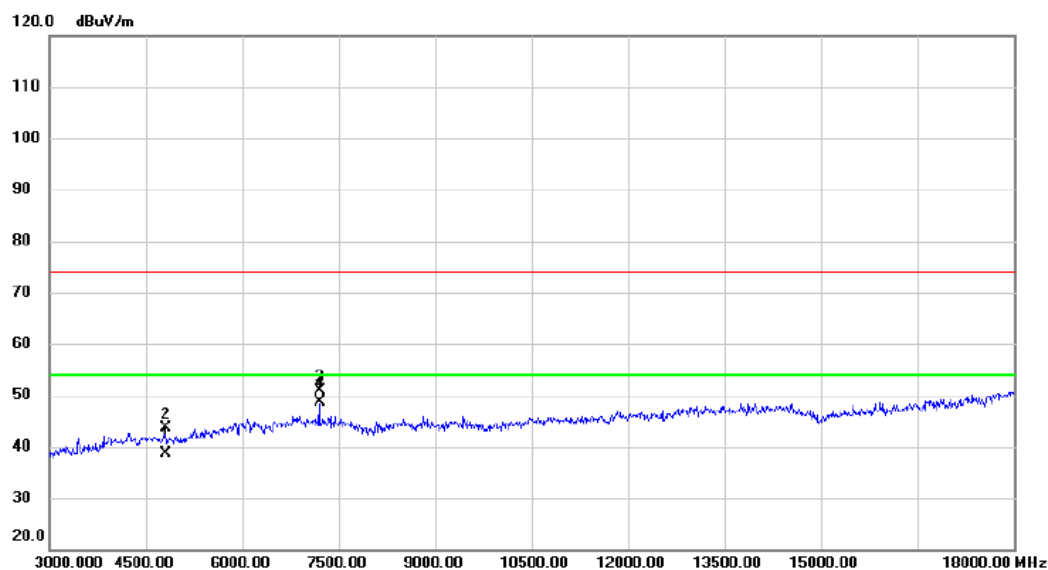
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2668.000	42.27	9.06	51.33	74.00	-22.67	peak	
2		2668.000	32.98	9.06	42.04	54.00	-11.96	AVG	
3		2906.000	42.17	10.50	52.67	74.00	-21.33	peak	
4	*	2906.000	32.54	10.50	43.04	54.00	-10.96	AVG	

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2402 MHz_CH00_1Mbps	Polarization	Vertical
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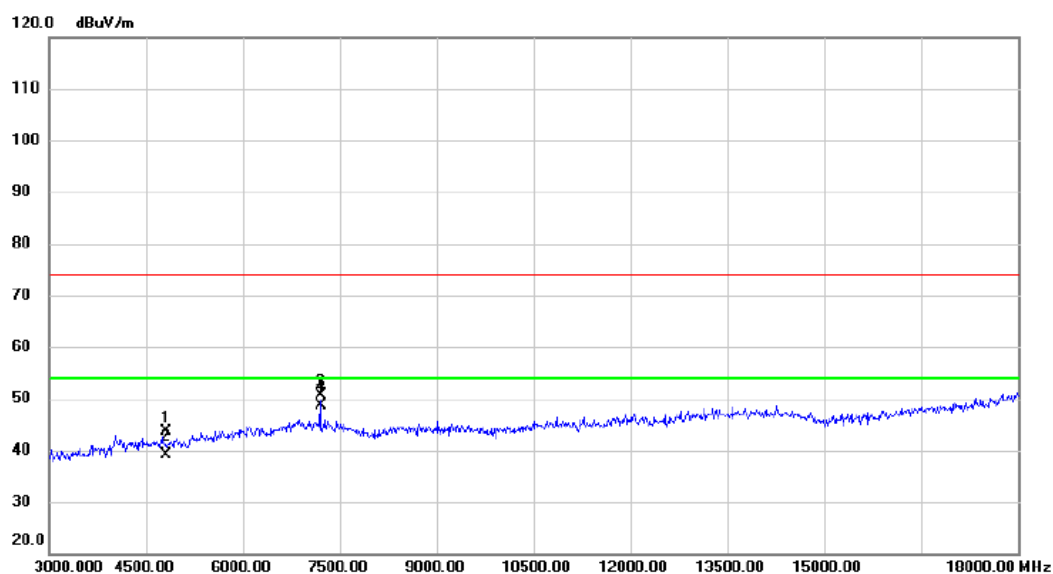


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4803.900	34.24	4.46	38.70	54.00	-15.30	AVG	
2		4804.000	39.26	4.46	43.72	74.00	-30.28	peak	
3		7205.900	41.23	9.62	50.85	74.00	-23.15	peak	
4	*	7206.000	39.05	9.62	48.67	54.00	-5.33	AVG	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX 2402 MHz_CH00_1Mbps	Polarization	Horizontal
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4803.800	39.10	4.46	43.56	74.00	-30.44	peak	
2		4803.900	34.79	4.46	39.25	54.00	-14.75	AVG	
3		7205.850	40.94	9.63	50.57	74.00	-23.43	peak	
4	*	7205.950	39.13	9.62	48.75	54.00	-5.25	AVG	

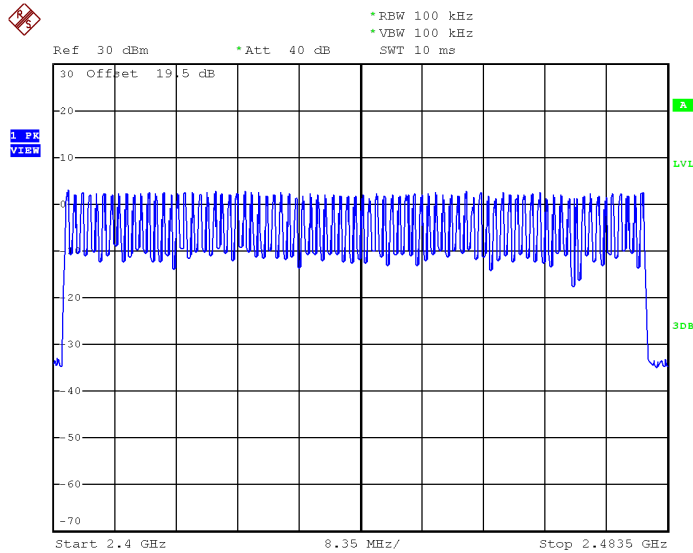
REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - NUMBER OF HOPPING FREQUENCY

Test Mode: TX Mode_1Mbps

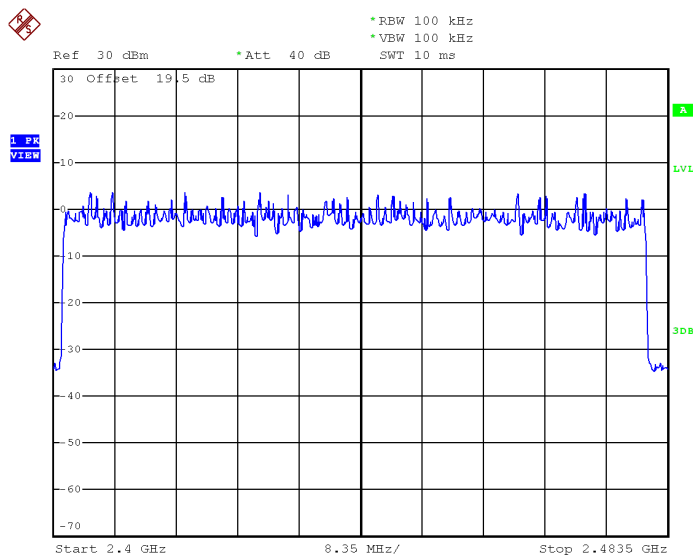
Test Mode	Hopping Mode_1Mbps	Limit	Test Result
Number of Hopping Frequency	79	15	Pass



Date: 13.JAN.2026 19:14:09

Test Mode: TX Mode_3Mbps

Test Mode	Hopping Mode_3Mbps	Limit	Test Result
Number of Hopping Frequency	79	15	Pass

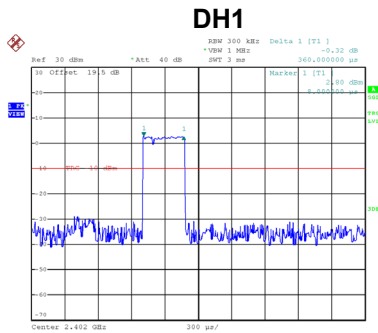


Date: 13.JAN.2026 19:17:22

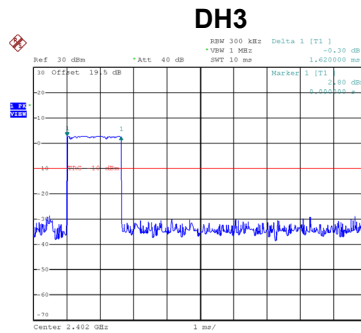
APPENDIX F - AVERAGE TIME OF OCCUPANCY

Test Mode	Hopping Mode_1Mbps
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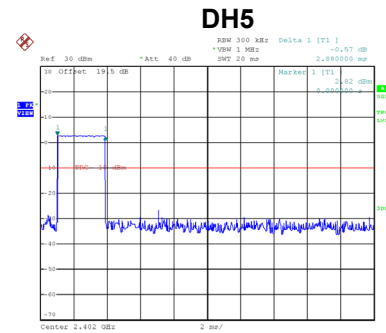
Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)	Test Result
DH1	2402	0.3600	0.1152	0.4000	Pass
DH3	2402	1.6200	0.2592	0.4000	Pass
DH5	2402	2.8800	0.3072	0.4000	Pass



Date: 13.JAN.2026 19:06:57



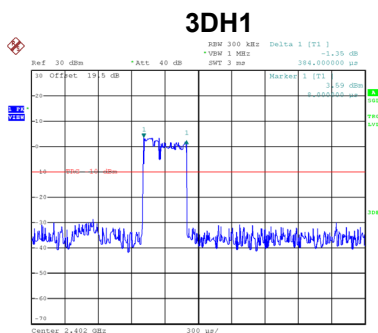
Date: 13.JAN.2026 19:08:35



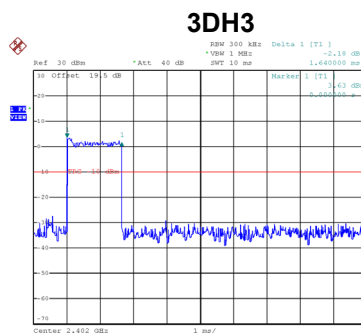
Date: 13.JAN.2026 19:10:54

Test Mode	Hopping Mode_3Mbps
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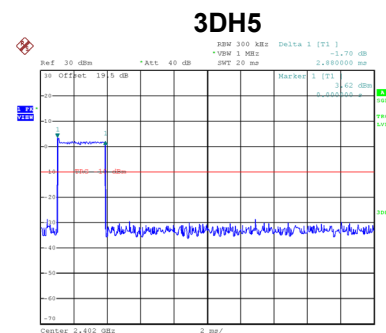
Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limits (s)	Test Result
3DH1	2402	0.3840	0.1229	0.4000	Pass
3DH3	2402	1.6400	0.2624	0.4000	Pass
3DH5	2402	2.8800	0.3072	0.4000	Pass



Date: 13.JAN.2026 19:08:03



Date: 13.JAN.2026 19:10:07

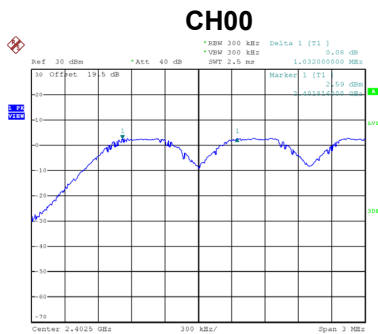


Date: 13.JAN.2026 19:11:58

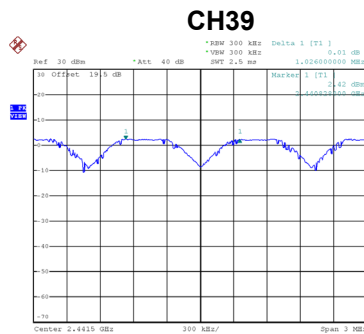
APPENDIX G - HOPPING CHANNEL SEPARATION

Test Mode	Hopping Mode_1Mbps
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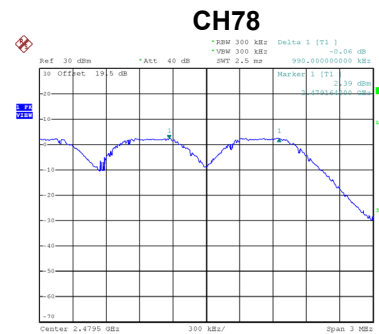
Channel	Frequency (MHz)	Channel Separation (MHz)	2/3 of 20 dB Bandwidth (MHz)	Test Result
00	2402	1.032	0.656	Pass
39	2441	1.026	0.652	Pass
78	2480	0.990	0.648	Pass



Date: 13.JAN.2026 19:13:34



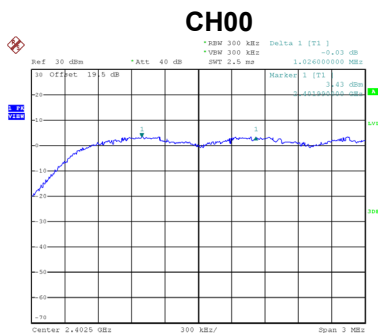
Date: 13.JAN.2026 19:15:05



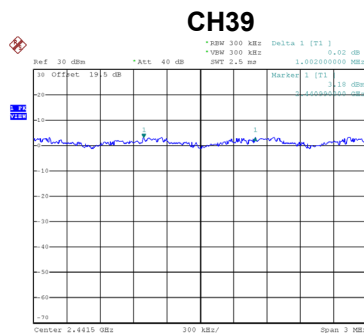
Date: 13.JAN.2026 19:15:16

Test Mode	Hopping Mode_3Mbps
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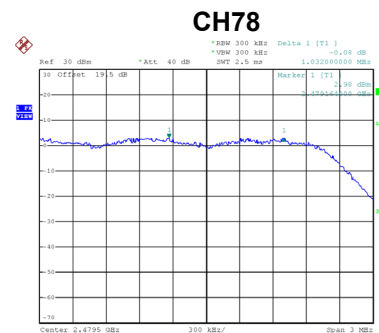
Channel	Frequency (MHz)	Channel Separation (MHz)	2/3 of 20 dB Bandwidth (MHz)	Test Result
00	2402	1.026	0.656	Pass
39	2441	1.002	0.656	Pass
78	2480	1.032	0.656	Pass



Date: 13.JAN.2026 19:16:43



Date: 13.JAN.2026 19:19:22

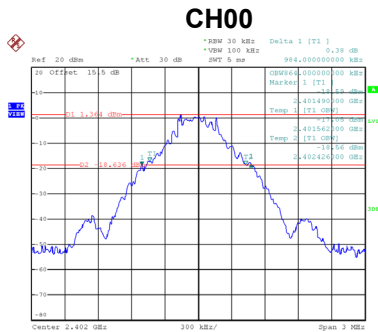


Date: 13.JAN.2026 19:20:04

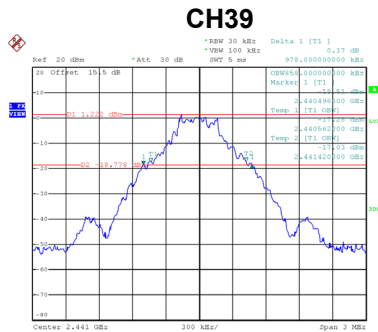
APPENDIX H - BANDWIDTH

Test Mode	TX Mode_1Mbps
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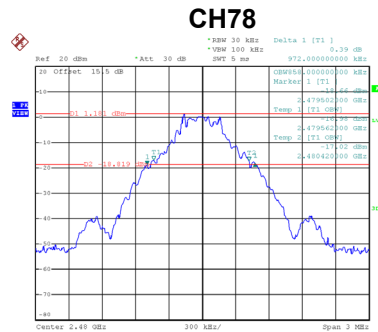
Channel	Frequency (MHz)	20 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
00	2402	0.984	0.864
39	2441	0.978	0.858
78	2480	0.972	0.858



Date: 5.JAN.2026 10:43:08



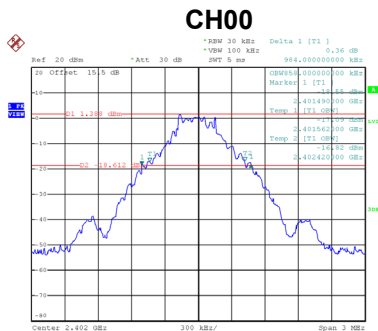
Date: 5.JAN.2026 10:44:51



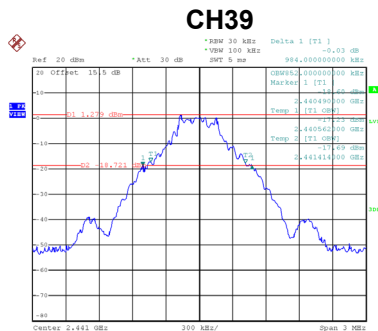
Date: 5.JAN.2026 10:46:53

Test Mode	TX Mode_3Mbps
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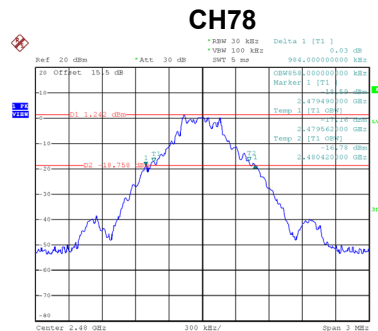
Channel	Frequency (MHz)	20 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
00	2402	0.984	0.858
39	2441	0.984	0.852
78	2480	0.984	0.858



Date: 5.JAN.2026 10:55:26



Date: 5.JAN.2026 10:56:09



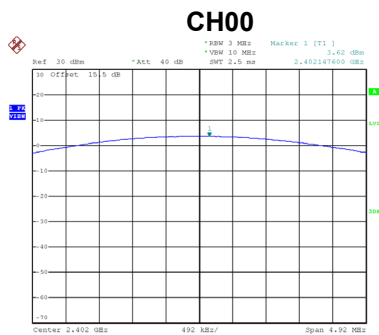
Date: 5.JAN.2026 10:59:29

APPENDIX I - MAXIMUM OUTPUT POWER

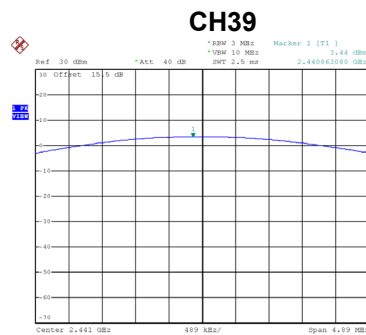
Test Mode TX Mode_1Mbps

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Test Result
00	2402	3.62	20.97	0.1250	Pass
39	2441	3.44	20.97	0.1250	Pass
78	2480	3.44	20.97	0.1250	Pass

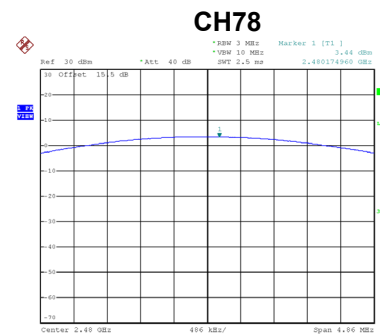
Note: Output power = Measure result + Cable loss



Date: 5.JAN.2026 10:43:18



Date: 5.JAN.2026 10:45:01

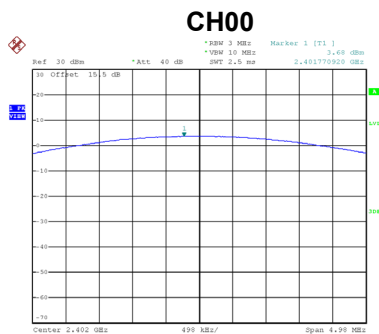


Date: 5.JAN.2026 10:47:03

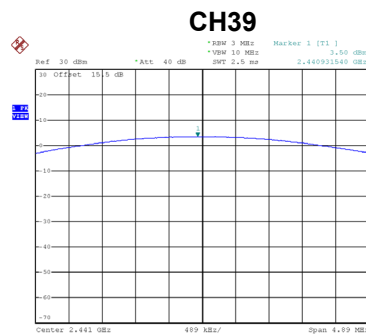
Test Mode TX Mode_2Mbps

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Test Result
00	2402	3.68	20.97	0.1250	Pass
39	2441	3.50	20.97	0.1250	Pass
78	2480	3.37	20.97	0.1250	Pass

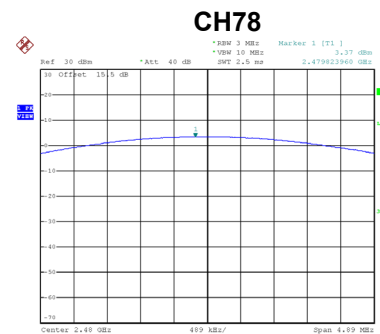
Note: Output power = Measure result + Cable loss



Date: 5.JAN.2026 10:48:32



Date: 5.JAN.2026 10:50:49

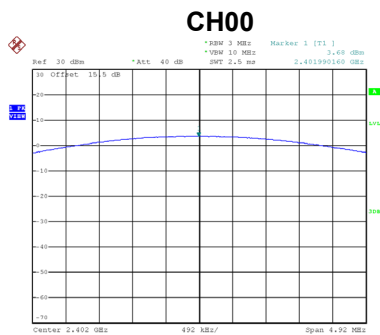


Date: 5.JAN.2026 10:52:45

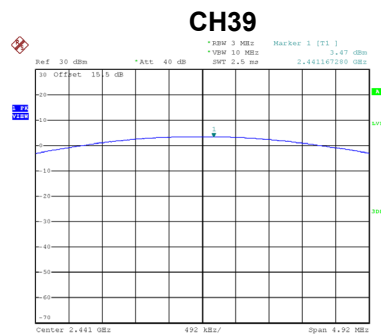
Test Mode	TX Mode_3Mbps
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Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Test Result
00	2402	3.68	20.97	0.1250	Pass
39	2441	3.47	20.97	0.1250	Pass
78	2480	3.41	20.97	0.1250	Pass

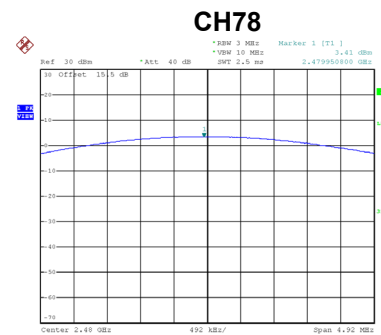
Note: Output power = Measure result + Cable loss



Date: 5.JAN.2026 10:55:36



Date: 5.JAN.2026 10:56:20

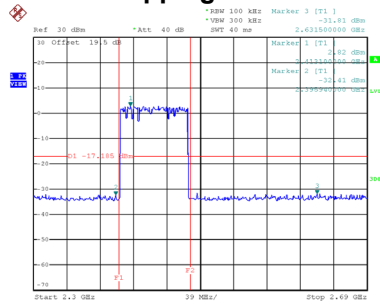


Date: 5.JAN.2026 10:59:40

APPENDIX J - CONDUCTED SPURIOUS EMISSION

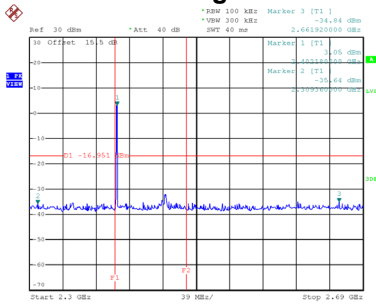
Test Mode TX Mode_1Mbps

Hopping on mode



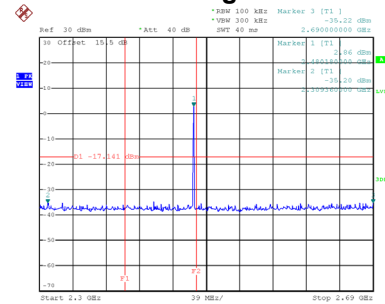
Date: 13.JAN.2026 19:14:51

Bandedge-CH00



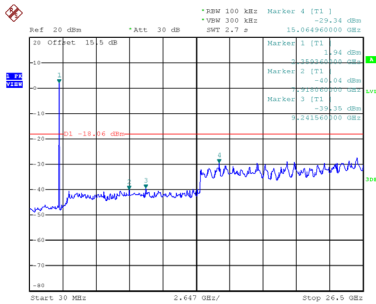
Date: 5.JAN.2026 11:03:11

Bandedge-CH78



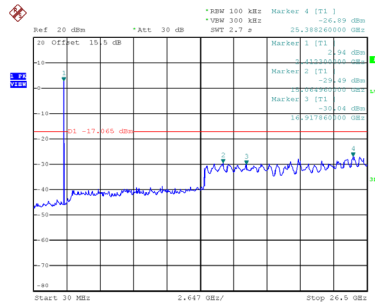
Date: 5.JAN.2026 11:08:26

Harmonic-CH00



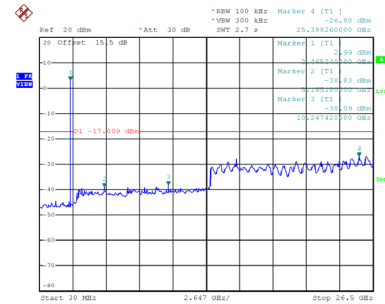
Date: 5.JAN.2026 11:05:00

Harmonic-CH39



Date: 5.JAN.2026 11:07:50

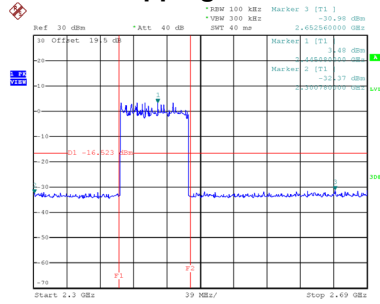
Harmonic-CH78



Date: 5.JAN.2026 11:10:10

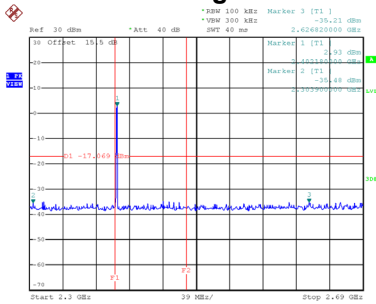
Test Mode TX Mode_3Mbps

Hopping on mode



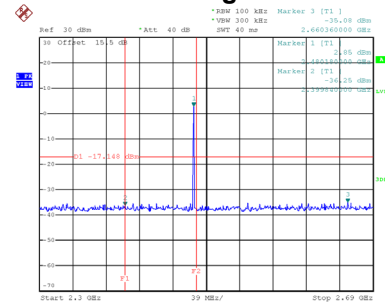
Date: 13.JAN.2026 19:18:36

Bandedge-CH00



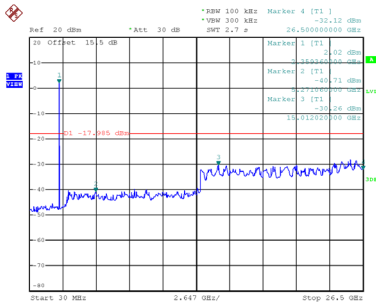
Date: 5.JAN.2026 11:10:52

Bandedge-CH78



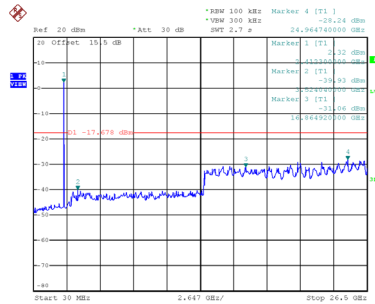
Date: 5.JAN.2026 11:12:11

Harmonic-CH00



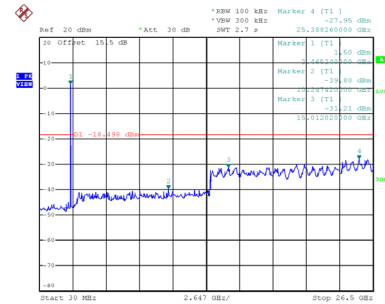
Date: 5.JAN.2026 11:11:03

Harmonic-CH39



Date: 5.JAN.2026 11:11:45

Harmonic-CH78



Date: 5.JAN.2026 11:12:22

APPENDIX K - DECLARATION FOR BLUETOOTH DEVICE

1. Output power and channel separation of a Bluetooth device in the different operating modes:

The different operating modes (data-mode, acquisition-mode) of a Bluetooth device has no influence on the output power and the channel spacing. There is only one transmitter which is driven by identical input parameters concerning these two parameters.

Only a different hopping sequence will be used. For this reason the check of these RF parameters in one op-mode is sufficient.

2. Frequency range of a Bluetooth device:

Hereby we declare that the maximum frequency of this device is: 2402 - 2480MHz. This is according to the Bluetooth Core Specification (+ critical errata) for devices which will be operated in the USA.

This was checked during the Bluetooth Qualification tests (Test Case: TRM/CA/04-E). Other frequency ranges (e.g. for Spain, France, Japan) which are allowed according the Core Specification are not supported by this device.

3. Co-ordination of the hopping sequence in data mode to avoid simultaneous occupancy by multiple transmitters:

Bluetooth units which want to communicate with other units must be organised in a structure called piconet. This piconet consist of max. 8 Bluetooth units. One unit is the master the other seven are the slaves. The master co-ordinates frequency occupation in this piconet for all units. As the master hop sequence is derived from its BD address which is unique for each Bluetooth device, additional masters intending to establish new piconets will always use different hop sequences.

4. Example of a hopping sequence in data mode:

Example of a 79 hopping sequence in data mode:

40, 21, 44, 23, 42, 53, 46, 55, 48, 33, 52, 35, 50, 65, 54, 67, 56, 37, 60, 39, 58, 69, 62, 71, 64, 25, 68, 27, 66, 57, 70, 59, 72, 29, 76, 31, 74, 61, 78, 63, 01, 41, 05, 43, 03, 73, 07, 75, 09, 45, 13, 47, 11, 77, 15, 00, 64, 49, 66, 53, 68, 02, 70, 06, 01, 51, 03, 55, 05, 04

5. Equally average use of frequencies in data mode and behaviour for short transmissions:

The generation of the hopping sequence in connection mode depends essentially on two input values:

- a) LAP/UAP of the master of the connection.
- b) Internal master clock.

The LAP (lower address part) are the 24 LSB's of the 48 BD_ADDRESS. The BD_ADDRESS is an unambiguous number of every Bluetooth unit. The UAP (upper address part) are the 24 MSB's of the 48 BD_ADDRESS.

The internal clock of a Bluetooth unit is derived from a free running clock which is never adjusted and is never turned off. For synchronisation with other units only offset are used. It has no relation to the time of the day. Its resolution is at least half the RX/TX slot length of 312.5 μ s. The clock has a cycle of about one day (23h30). In most case it is implemented as 28 bit counter. For the deriving of the hopping sequence the entire.

LAP (24 bits), 4 LSB's (4 bits) (Input 1) and the 27 MSB's of the clock (Input 2) are used. With this input values different mathematical procedures (permutations, additions, XOR- operations) are performed to generate the sequence. This will be done at the beginning of every new transmission.

Regarding short transmissions the Bluetooth system has the following behaviour:

The first connection between the two devices is established, a hopping sequence was generated. For transmitting the wanted data the complete hopping sequence was not used. The connection ended.

The second connection will be established. A new hopping sequence is generated. Due to the fact that the Bluetooth clock has a different value, because the period between the two transmission is longer (and it cannot be shorter) than the minimum resolution of the clock (312.5 μ s). The hopping sequence will always differ from the first one.

6. Receiver input bandwidth and behaviour for repeated single or multiple packets:

The input bandwidth of the receiver is 1 MHz. In every connection one Bluetooth device is the master and the other one is the slave. The master determines the hopping sequence (see chapter 5). The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master.

Additionally the type of connection (e.g. single or multislots packet) is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings.

Repeating of a packet has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means, a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.