
TEST REPORT FOR BLE TESTING

Report No.: SRTC2021-9004(F)-21120101(E)

Product Name: Mobile phone

Applicant: Hisense International Co., Ltd.

Manufacturer: Hisense Communications Co., Ltd.

Specification: FCC Part 15 Subpart C (2020)

FCC ID: 2ADOBHLTE240E

The State Radio_monitoring_center Testing Center (SRTC)

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1. GENERAL INFORMATION

1.1 Notes of the test report

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1.2 Information about the testing laboratory

Company:	The State Radio_monitoring_center Testing Center (SRTC)
Address:	15th Building, No.30 Shixing Street, Shijingshan District, P.R.China
City:	Beijing
Country or Region:	P.R.China
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Designation Number:	CN1267
Registration number:	239125

1.3 Applicant's details

Company:	Hisense International Co., Ltd.
Address:	Floor 22, Hisense Tower, 17 Donghai Xi Road, Qingdao, 266071, China

1.4 Manufacturer's details

Company:	Hisense Communications Co., Ltd.
Address:	218 Qianwangang Road, Qingdao Economic & Technological Development Zone, Qingdao, China

1.5 Test Environment

Date of Receipt of test sample at SRTC:	2021-12-01
Testing Start Date:	2021-12-03
Testing End Date:	2021-12-05

Environmental Data:	Temperature (°C)	Humidity (%)
Ambient	25	32

Normal Supply Voltage (V d.c.):	3.80
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2 DESCRIPTION OF THE DEVICE UNDER TEST

2.1 Final Equipment Build Status

Frequency Range:	2.402GHz~2.480GHz
Number of Channel:	40
Modulation Type:	GFSK
Equipment Class:	DTS
Channel Spacing:	2MHz
Data Rate:	LE 1Mbps/2Mbps LE Coded 125kbps/500kbps
Power Supply:	Charger
Software Revision:	Hisense_HLTE240E_S03_01_01_MX05
Hardware Revision:	FS192-MB-V0.1
IMEI:	863504060001192 863504060001655
Antenna type:	Refer to Note
Antenna connector:	Refer to Note

Note: There are two types of products: single card and dual card. After verification, dual card is the worst case, so the data reflected in this report are dual card models.

Antenna requirement (FCC part 15.203)

An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 shall be considered sufficient to comply with the provisions of this section.

- The antenna(s) of the EUT are permanently attached.
- There are no provisions for connection to an external antenna.

Note: The antenna provide to the EUT, please refer to the following table:

Brand	Model	Antenna gain	Frequency range(GHz)	Antenna type	Connector Type
N/A	N/A	-0.39 dBi	2.402GHz~2.480GHz	FPC Antenna	N/A
Manufacturers ensure that their designs will not be modified by the user or third parties arbitrary antenna parameters and performance. The EUT complies with the requirement of					
-					

2.2 Description of Test Modes

40 channels are provided to this EUT:

CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

2.2.1 Test Mode Applicability and Tested Channel Detail

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE $\geq$ 1G	RE<1G	PLC	APCM	-
GFSK	√	√	√	√	-

Where

RE $\geq$ 1G: Radiated Emission above 1GHz

RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

Radiated Emission Test (Above 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	DATA RATE (Mbps)
0 to 39	19	GFSK	1

Radiated Emission Test (Below 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	DATA RATE (Mbps)
0 to 39	19	GFSK	1

Power Line Conducted Emission Test:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	DATA RATE (Mbps)
0 to 39	19	GFSK	1

Antenna Port Conducted Measurement:

This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	DATA RATE (Mbps)
0 to 39	0, 19, 39	GFSK	1

2.3 Duty Cycle of Test Signal

Duty cycle of test signal is < 98 %, duty factor shall be considered.

Modulation Type	Duty Cycle	Correction factor(dB)
GFSK (LE 1Mbps)	70.50%	1.52
GFSK (LE 2Mbps)	73.50%	1.34

2.4 EUT Operating conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

2.5 Support Equipment

The following support equipment was used to exercise the DUT during testing:

N/A

3 REFERENCE SPECIFICATION

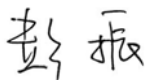
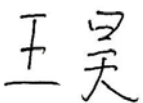
Specification	Version	Title
FCC part15 Subpart C	2020	Intentional radiators
ANSI C63.10	2013	Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
KDB 558074D01 V05R02r02	April 2, 2019	Guidance for compliance measurements on Digital transmission system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the FCC rules

4 KEY TO NOTES AND RESULT CODES

Code	Meaning
PASS	Test result shows that the requirements of the relevant specification have been met.
FAIL	Test result shows that the requirements of the relevant specification have not been met.
N/T	Test case is not tested.

5 RESULT SUMMARY

No.	Test case	Reference	Verdict
1	6dB Bandwidth	15.247(a)(2)	Pass
2	Transmitter Output Power	15.247(b)(3))	Pass
3	Transmitter Power Spectral Density	15.247(e))	Pass
4	Conducted Out of band emission measurement	15.247(d)	Pass
5	Band-edge	15.247(d)	Pass
6	Spurious Radiated Emissions	15.205/15.209/15.247(d)	Pass
7	AC Power line Conducted Emission	15.207	Pass
8	Antenna requirement	15.203	Pass(refer to section 2.1)

This Test Report Is Issued by: Mr. Peng Zhen 	Checked by: Mr. Li Bin 
Tested by: Mr.Wang Hao 	Issued date: 20211221

6 TEST RESULT

6.1 6dB Bandwidth

6.1.1 Test limit

Part15.247 (a) (2)

The minimum permissible 6dB bandwidth is 500 kHz

6.1.2 Test Procedure Used

ANSI C63.10-2013 – Section 11.8.2 Option 2

KDB 558074 D01 v05r02 – Section 8.2

6.1.3 Test Settings

1. The signal analyzers' automatic bandwidth measurement capability of the spectrum analyzer was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 6$. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.

2. RBW = 100 kHz

3. VBW $\geq 3 \times$ RBW

4. Detector = Peak

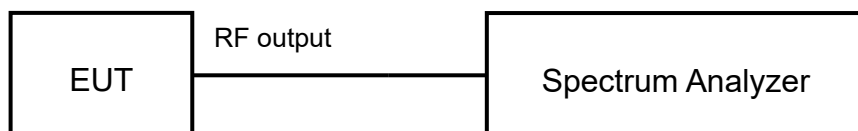
5. Trace mode = max hold

6. Sweep = auto couple

7. The trace was allowed to stabilize

6.1.4 Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



6.1.5 Test result

The test results are shown in Appendix A.

6.2 Transmitter Output Power

6.2.1 Test limit

Part15.247 (b) (3)

The maximum permissible conducted output power is 1 Watt.

6.2.2 Test Procedure Used

ANSI C63.10-2013 – Section 11.9.1.3

ANSI C63.10-2013 – Section 11.9.2.3.2

KDB 558074 D01 v05r02 – Section 8.3.1.3

6.2.3 Test Settings

Peak Power Measurement

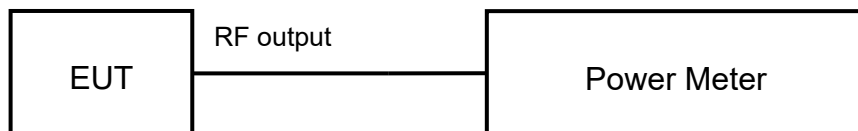
The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

Average Power Measurement

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

6.2.4 Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



6.2.5 Test result

The test results are shown in Appendix A.

6.3 Transmitter Power Spectral Density

6.3.1 Test limit

Part15.247 (e)

The maximum permissible power spectral density is 8.0dBm in any 3 kHz band.

6.3.2 Test Procedure Used

ANSI C63.10-2013 – Section 11.10.2 Method PKPSD

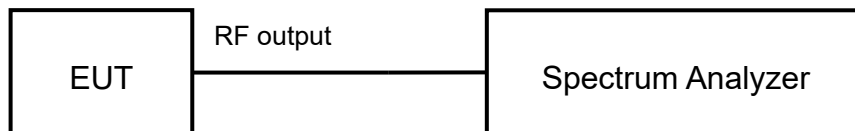
KDB 558074 D01 v05r02 – Section 8.4

6.3.3 Test Settings

1. Analyzer was set to the center frequency of the DTS channel under investigation
2. Span = 1.5 times the DTS channel bandwidth
3. RBW = 3 kHz
4. VBW = 10 kHz
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Trace was allowed to stabilize

6.3.4 Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



6.3.5 Test result

The test results are shown in Appendix A.

6.4 Conducted Out of band emission measurement

6.4.1 Test limit

Part 15.247(d): The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth.

6.4.2 Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3

KDB 558074 D01 v05r02 – Section 8.5

6.4.3 Reference level measurement Settings

Establish a reference level by using the following procedure:

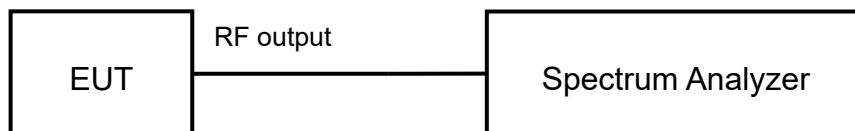
- Set instrument center frequency to DTS channel center frequency.
- Set the span to ≥ 1.5 MHz
- Set the RBW = 100 kHz.
- Set the VBW ≥ 300 kHz.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum PSD level.

6.4.4 Test Settings

- Set the center frequency and span to encompass frequency range to be measured.
- Set the RBW = 100 kHz.
- Set the VBW ≥ 300 kHz.
- Detector = peak.
- Set span to encompass the spectrum to be examined
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

6.4.5 Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



6.4.6 Test result

The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement. The test results are shown in Appendix A.

6.5 Band-edge measurement

6.5.1 Test limit

Part 15.247(d): The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth.

6.5.2 Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3

KDB 558074 D01 v05r02 – Section 8.7.2

6.5.3 Reference level measurement Settings

Establish a reference level by using the following procedure:

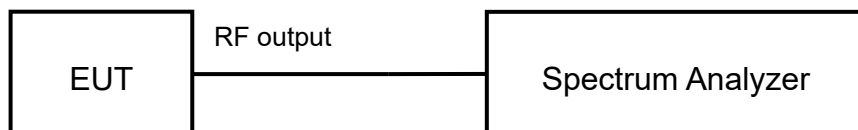
- Set instrument center frequency to DTS channel center frequency.
- Set the span to ≥ 1.5 MHz
- Set the RBW = 100 kHz.
- Set the VBW ≥ 300 kHz.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum PSD level.

6.5.4 Test Settings

- Set the center frequency and span to encompass frequency range to be measured.
- Set the RBW = 100 kHz.
- Set the VBW ≥ 300 kHz.
- Detector = peak.
- Set span to encompass the spectrum to be examined
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

6.5.5 Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



6.5.6 Test result

The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement. The test results are shown in Appendix A.

6.6 Spurious Radiated Emissions

6.6.1 Test Description

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at maximum power and at the appropriate frequencies. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

6.6.2 Test limit

Part15.205, 15.209, 15.247(d)

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in below Table per Section 15.209. The spectrum shall be investigated from the lowest radio frequency signal generated in the device

Frequency [MHz]	Field strength [$\mu\text{V/m}$]	Measured 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

Radiated Limits

Part15.35(b):

There is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit

Used conversion factor: Limit (dB $\mu\text{V/m}$) = 20 log (Limit ($\mu\text{V/m}$)/1 $\mu\text{V/m}$)

Frequency [MHz]	Detector	Unit (dB $\mu\text{V/m}$)
30~88	Quasi-peak	40.0
88~216	Quasi-peak	43.5
216~960	Quasi-peak	46.0
960~1000	Quasi-peak	54.0
1000~5th harmonic of the highest frequency or 40GHz, whichever is lower	Average	54.0
	Peak	74.0

Conversion Radiated limits

6.6.3 Test Procedure Used

KDB 558074 D01 DTS Meas Guidance v05r02– Section 12.2.7

For Radiated emission below 30MHz

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- Both X and Y axes of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Quasi-Peak Detect Function and recorded the reading with Maximum Hold Mode.

NOTE:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer complied the following setting:

Frequency	RBW
9-150kHz	200-300Hz
0.15-30MHz	9-10kHz

- Signals below 30MHz are not recorded in the report because they are lower than the limits by more than 20dB.

For Radiated emission above 30MHz

- The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground in chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- The test-receiver system was set to quasi-peak detect function and recorded the reading with Maximum Hold Mode when the test frequency is below 1 GHz.
- The test-receiver system was set to peak and average detector and recorded the reading with Maximum Hold Mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Average detection (AV) at frequency above 1GHz. If duty cycle of test signal is < 98%, the duty factor need added to measured value.
4. All modes of operation were investigated and the worst-case emissions are reported.

6.6.4 Test Settings

Average Field Strength Measurements per Section 12.2.7 of KDB 558074 (Part 15.35)

Frequency	Detector
<1000MHz	Quasi-peak
>1000MHz	Peak and average

Peak Field Strength Measurements per Section 12.2.7 of KDB 558074 (Part 15.35)

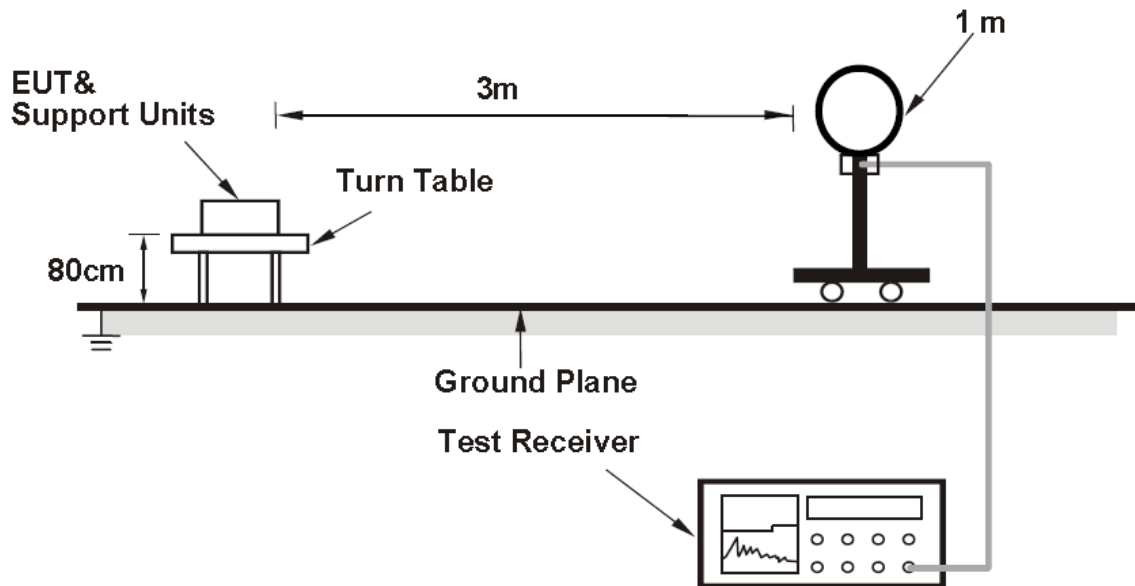
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW is set depending on measurement frequency, as specified in following table

Frequency	RBW
9-150kHz	200-300Hz
0.15-30MHz	9-10kHz
30-1000MHz	100-120kHz
>1000MHz	1MHz

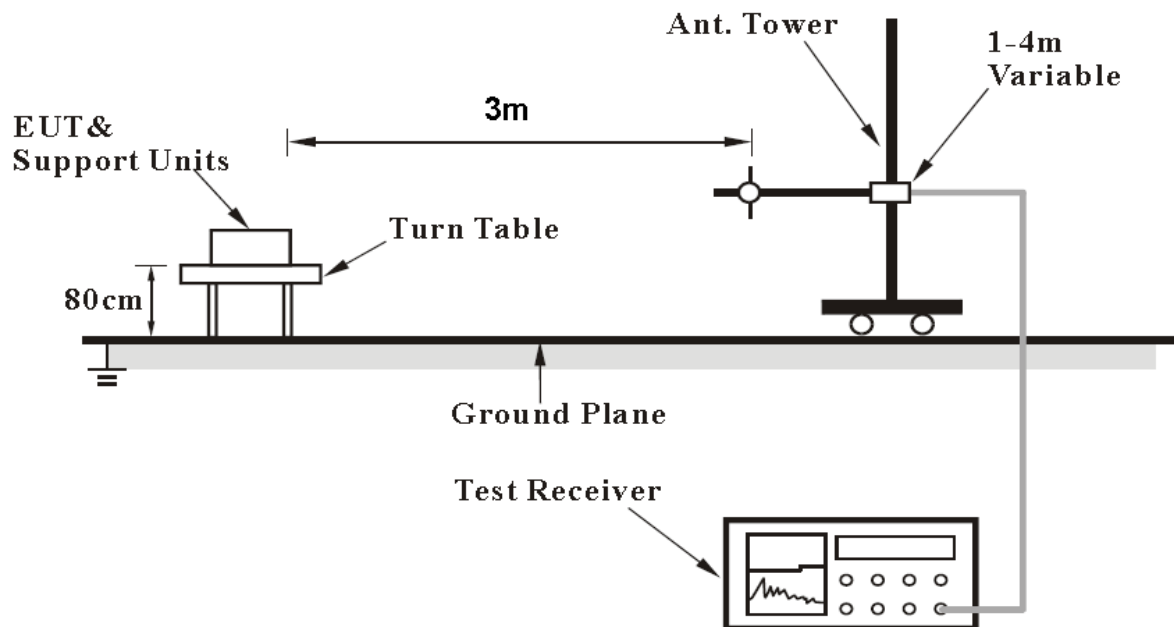
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

6.6.5 Test Setup

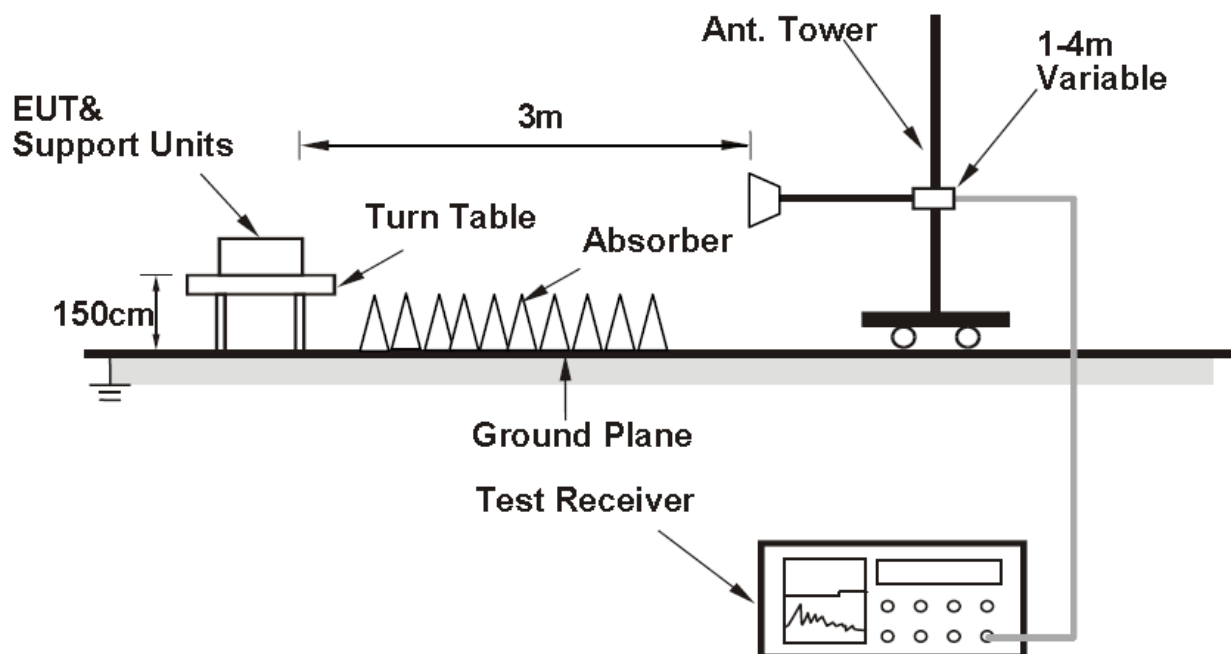
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



6.6.6 Test result

The test results are shown in Appendix B.

6.7 AC Power line Conducted Emission

6.7.1 Test limit

FCC Part15.207

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

The measurement is made according to ANSI C63.10-2013

6.7.2 Test Procedures

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.

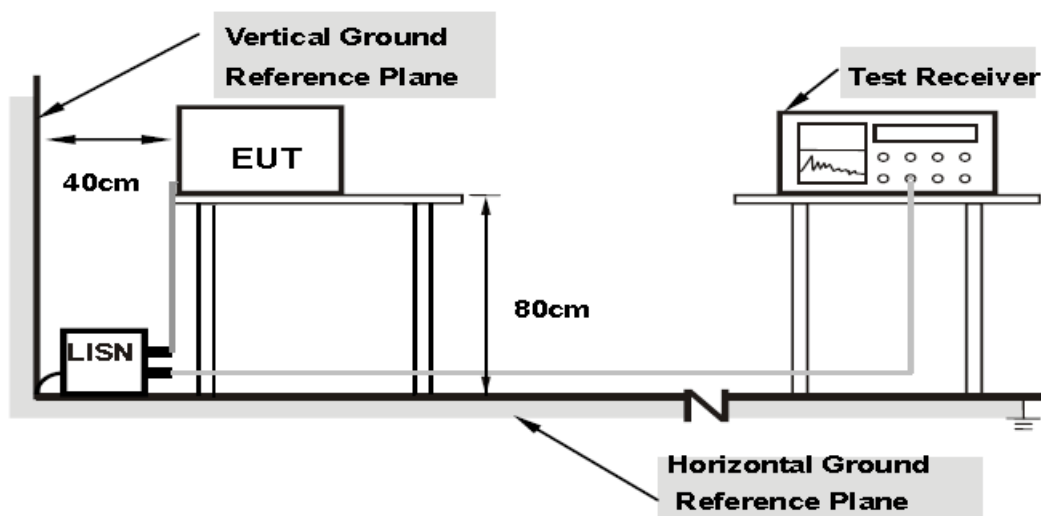
b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

NOTE: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

The EUT shall test under the power AC120V/60Hz.

6.7.3 Test Setup



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

6.7.4 Test result

The test results are shown in Appendix B.

7 MEASUREMENT UNCERTAINTIES

Items	Uncertainty	
6dB Bandwidth	3kHz	
Peak power output	0.67dB	
Transmitter Power Spectral Density	0.75dB	
Band edge compliance	1.20dB	
Conducted Out of band emission measurement	30MHz~1GHz	2.83dB
	1GHz~12.75GHz	2.50dB
	12.75GHz~25GHz	2.75dB
Spurious Radiated Emissions	30MHz~200MHz	4.88dB
	200MHz~1GHz	4.87dB
	1GHz~18GHz	4.58dB
	18GHz~40GHz	4.35dB
AC Power line Conducted Emission	3.92dB	

8 TEST EQUIPMENTS

No.	Name/ Model	Manufacturer	S/N	Cal date	Cal Due date
1.	Spectrum Analyzer / FSV	ROHDE & SCHWARZ	101065	2021.06.21	2022.06.20
2.	Signal Analyzer / N9020A	Agilent	MY48010771	2021.05.18	2022.05.17
3.	Bluetooth Test Set / MT8852B	Anritsu	1329003	2021.06.21	2022.06.20
4.	Power Divider / 11667A	HP	19632	2021.06.21	2022.06.20
5.	Power Meter E4416A	Agilent	MY52370013	2021.04.13	2022.04.12
6.	Power Sensor E9323A	Agilent	MY52150008	2021.04.13	2022.04.12
7.	Signal Generator / SMBV100A	R&S	260910	2021.06.21	2022.06.20
8.	Temperature chamber / SH241	ESPEC	92013758	2021.06.21	2022.06.20
9.	Fully-Anechoic Chamber / 12.65m×8.03m×7.50m	FRANKONIA	----	----	----
10.	Semi-Anechoic/Chamber / 23.18m×16.88m×9.60m	FRANKONIA	---	----	----
11.	Turn table Diameter:1m	FRANKONIA	----	----	----
12.	Turn table Diameter:5m	FRANKONIA	----	----	----
13.	Antenna master FAC(MA4.0)	MATURO	----	----	----
14.	Antenna master SAC(MA4.0)	MATURO	----	----	----
15.	Shielding room / 9.080m×5.255m×3.525m	FRANKONIA	----	----	----
16.	Double-Ridged Waveguide Horn Antenna / HF 907	R&S	100512	2021.06.21	2022.06.20
17.	Double-Ridged Waveguide Horn Antenna / HF 907	R&S	100513	2021.06.21	2022.06.20
18.	Ultra log antenna / HL562	R&S	100016	2021.06.21	2022.06.20
19.	Receive antenna /3160-09	SCHWARZ-BECK	002058-002	2021.06.21	2022.06.20
20.	EMI test receiver / ESI 40	R&S	100015	2021.06.21	2022.06.20
21.	EMI test receiver / ESCS30	R&S	100029	2021.06.21	2022.06.20
22.	Receive antenna / HL562	R&S	100167	2021.06.21	2022.06.20
23.	AMN / ENV216	R&S	3560.6550.12	2021.06.21	2022.06.20
24.	WLAN AP WIA3300-20	SKSpruce	8152017060700339	---	---
25.	Notebook E470c	Lenovo	PF10UZW7	---	---
26.	Loop Antenna	R&S	100340	2021.08.20	2022.08.20

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Offset 10.48dB = = Attenuator 10dB +Temporary antenna connector loss 0.2dB+ Cable loss 0.28dB

BLE

1 Duty Cycle and Antenna Gain

Test Mode	Frequency (MHz)	Duty Cycle	Correction Factor(dB)	Antenna Gain(dBi)
GFSK (LE 1Mbps)	2402	70.50%	1.52	-0.39
GFSK (LE 2Mbps)	2402	73.50%	1.34	-0.39

Note:Correction Factor=10*log(1/Duty Cycle)

Test Mode: GFSK (LE 1Mbps)

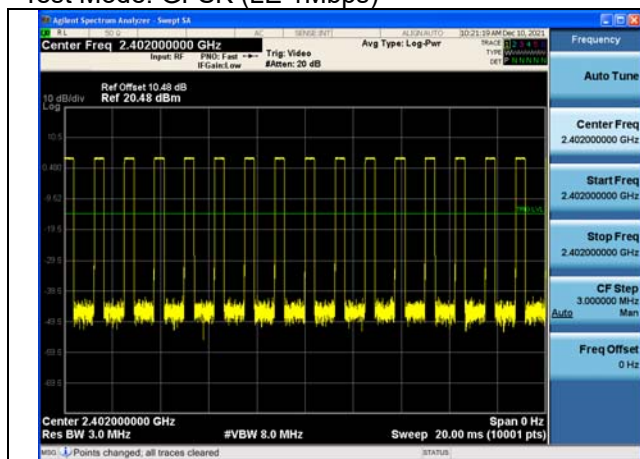


Fig.1

Test Mode: GFSK (LE 2Mbps)

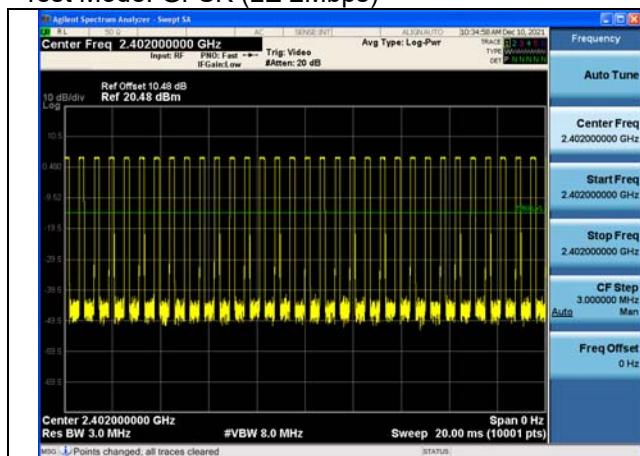


Fig.2

2 EIRP

Conducted Power

Modulation type	Conducted Peak Power(dBm)		
	2402MHz	2440MHz	2480MHz
GFSK (LE 1Mbps)	3.85	4.84	3.78
GFSK (LE 2Mbps)	3.68	4.64	3.77

Modulation type	Conducted Average Power(dBm)		
	2402MHz	2440MHz	2480MHz
GFSK (LE 1Mbps)	-1.51	-0.55	-1.62
GFSK (LE 2Mbps)	-1.47	-0.48	-1.48

EIRP

Modulation type	Peak EIRP(dBm)		
	2402MHz	2440MHz	2480MHz
GFSK (LE 1Mbps)	3.46	4.44	3.39
GFSK (LE 2Mbps)	3.28	4.25	3.38

Modulation type	Average EIRP(dBm)		
	2402MHz	2440MHz	2480MHz
GFSK (LE 1Mbps)	-1.90	-0.94	-2.01
GFSK (LE 2Mbps)	-1.86	-0.87	-1.87

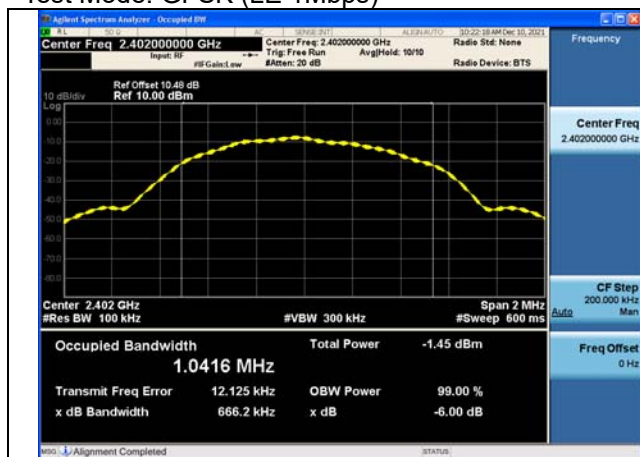
EIRP (dBm)=Conducted Power(dBm)+Antenna Gain(dBi)

3 Occupied Bandwidth 6dB Bandwidth

Test Mode	Carrier frequency (MHz)	6dB Bandwidth(KHz)
GFSK (LE 1Mbps)	2402	666.2
GFSK (LE 1Mbps)	2440	662.3
GFSK (LE 1Mbps)	2480	628.4

Test Mode	Carrier frequency (MHz)	6dB Bandwidth(KHz)
GFSK (LE 2Mbps)	2402	1150.7
GFSK (LE 2Mbps)	2440	1149.1
GFSK (LE 2Mbps)	2480	1171.4

Test Mode: GFSK (LE 1Mbps)



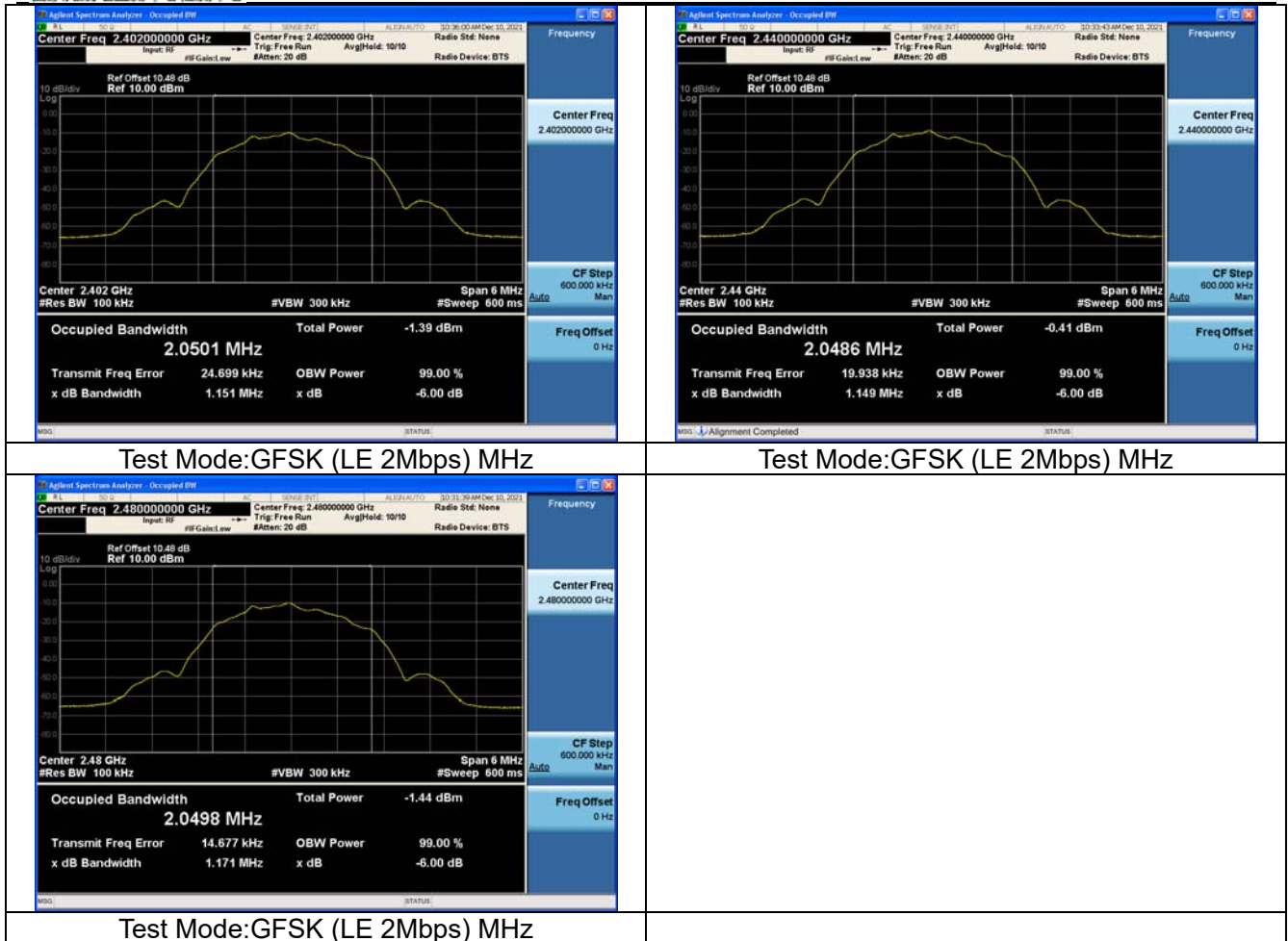
Test Mode:GFSK (LE 1Mbps) MHz

Test Mode:GFSK (LE 1Mbps) MHz



Test Mode:GFSK (LE 1Mbps) MHz

Test Mode: GFSK (LE 2Mbps)

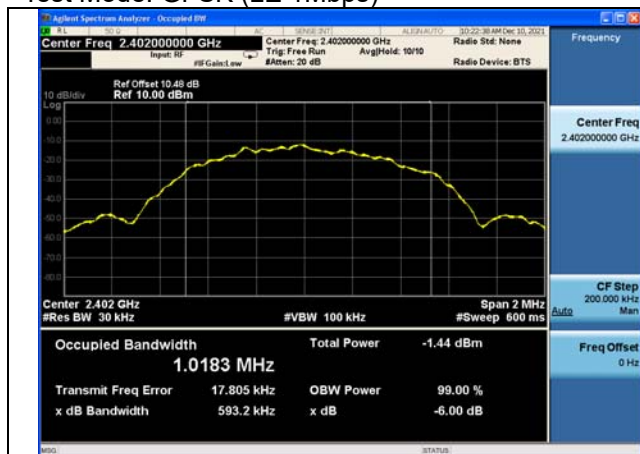


99% Bandwidth

Test Mode	Carrier frequency (MHz)	99% Bandwidth(kHz)
GFSK (LE 1Mbps)	2402	1018.3
GFSK (LE 1Mbps)	2440	1018.2
GFSK (LE 1Mbps)	2480	1020.3

Test Mode	Carrier frequency (MHz)	99% Bandwidth(kHz)
GFSK (LE 2Mbps)	2402	2034.6
GFSK (LE 2Mbps)	2440	2034.2
GFSK (LE 2Mbps)	2480	2036.6

Test Mode: GFSK (LE 1Mbps)



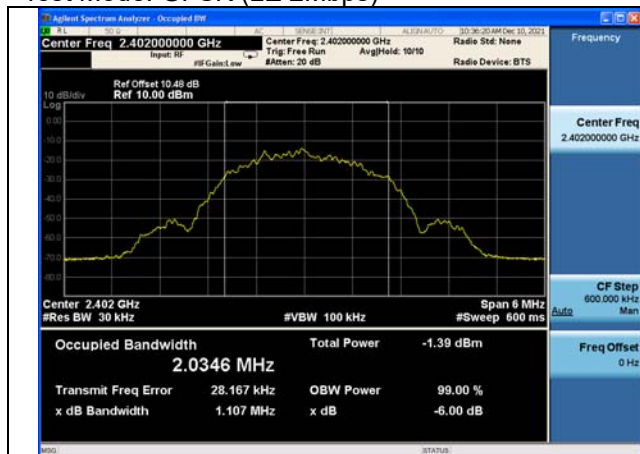
Test Mode:GFSK (LE 1Mbps) MHz

Test Mode:GFSK (LE 1Mbps) MHz

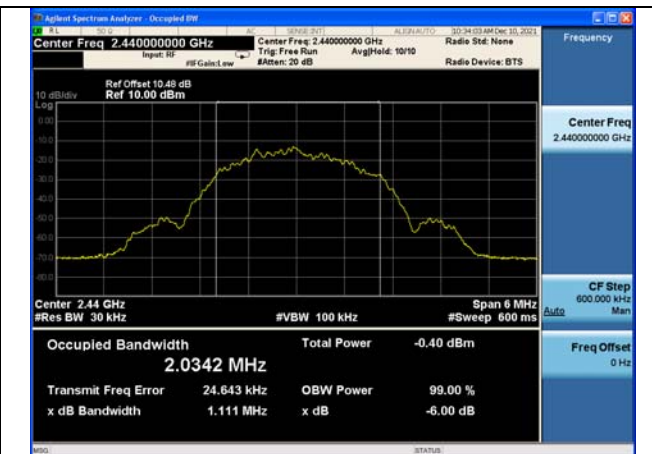


Test Mode:GFSK (LE 1Mbps) MHz

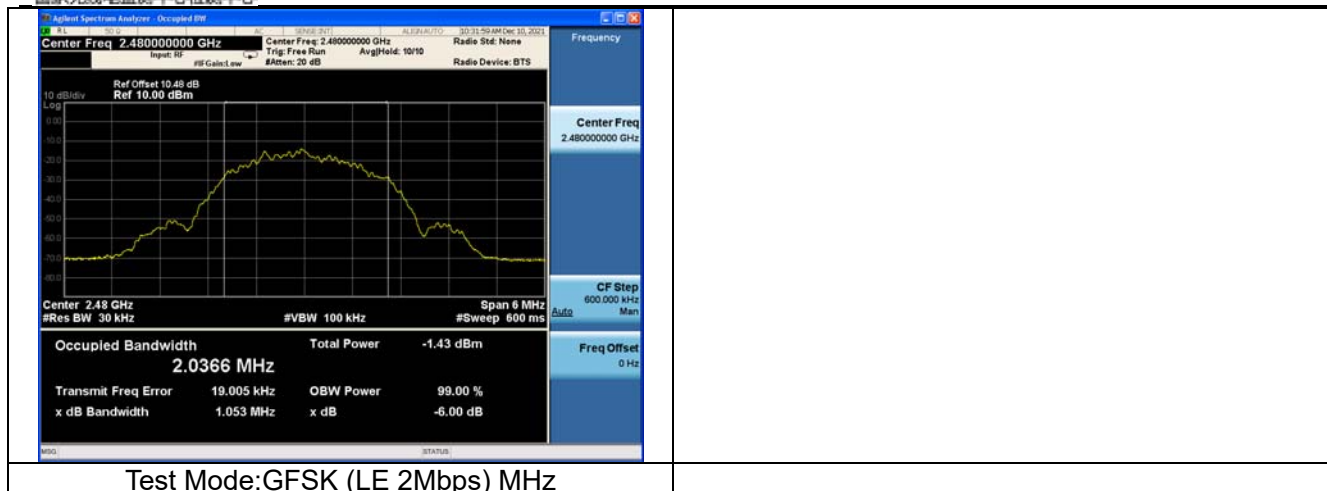
Test Mode: GFSK (LE 2Mbps)



Test Mode:GFSK (LE 2Mbps) MHz



Test Mode:GFSK (LE 2Mbps) MHz

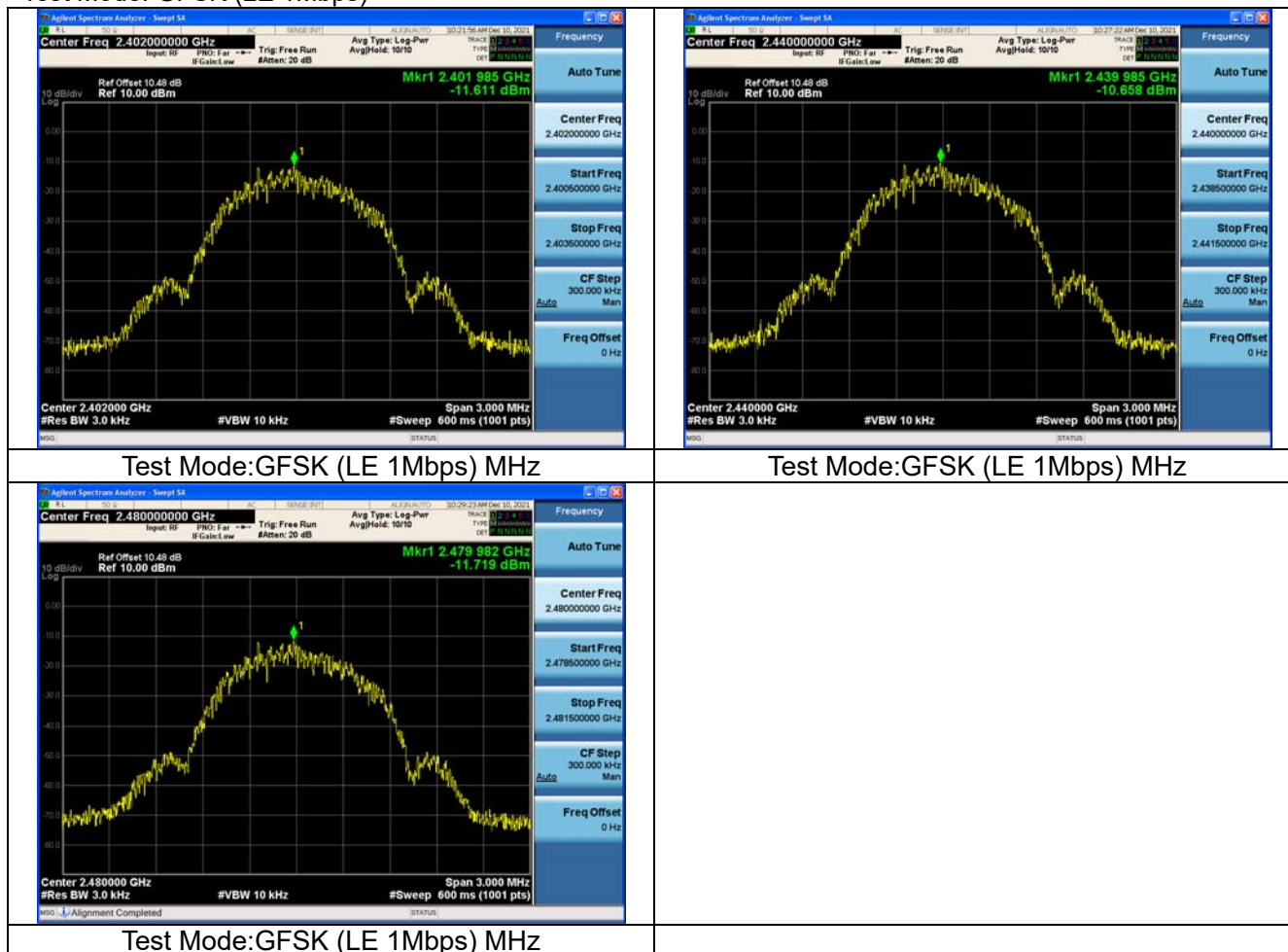


4 Transmitter PowerSpectral Density

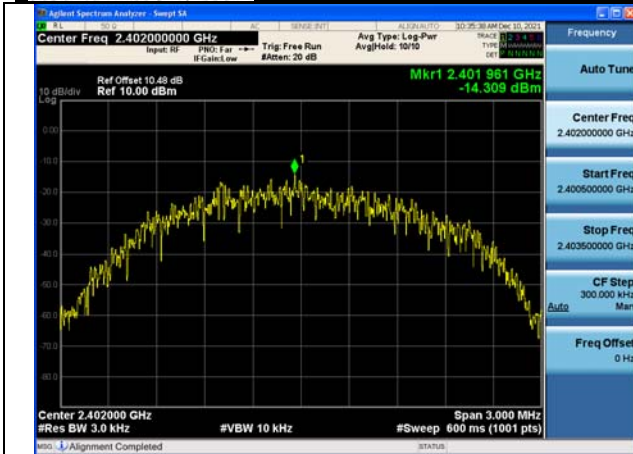
Test Mode	Carrier frequency (MHz)	Channel No.	Power Density (dBm/3kHz)
GFSK (LE 1Mbps)	2402	0	-11.6
GFSK (LE 1Mbps)	2440	1	-10.7
GFSK (LE 1Mbps)	2480	2	-11.7

Test Mode	Carrier frequency (MHz)	Channel No.	Power Density (dBm/3kHz)
GFSK (LE 2Mbps)	2402	0	-14.3
GFSK (LE 2Mbps)	2440	1	-13.5
GFSK (LE 2Mbps)	2480	2	-14.4

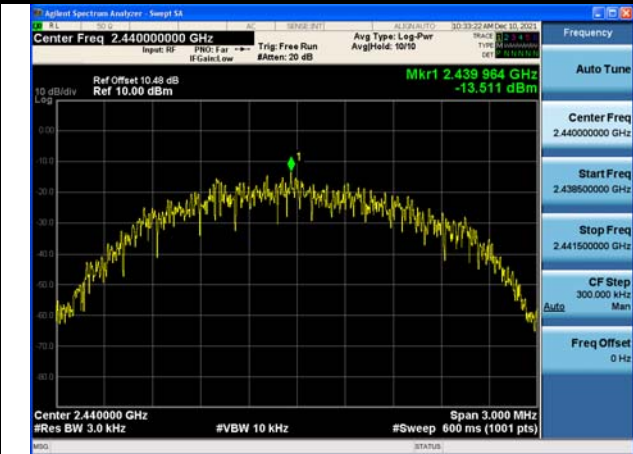
Test Mode: GFSK (LE 1Mbps)



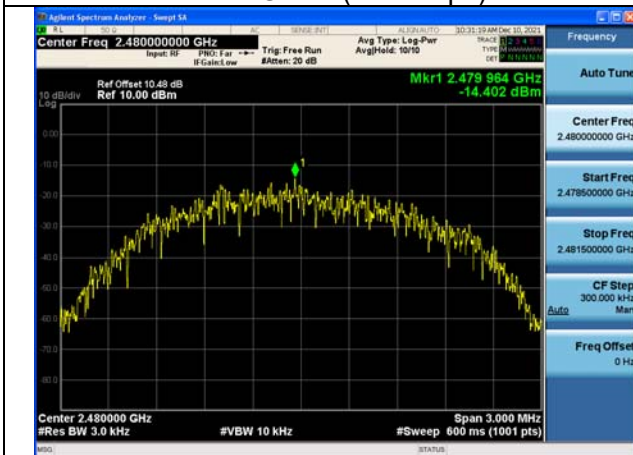
Test Mode: GFSK (LE 2Mbps)



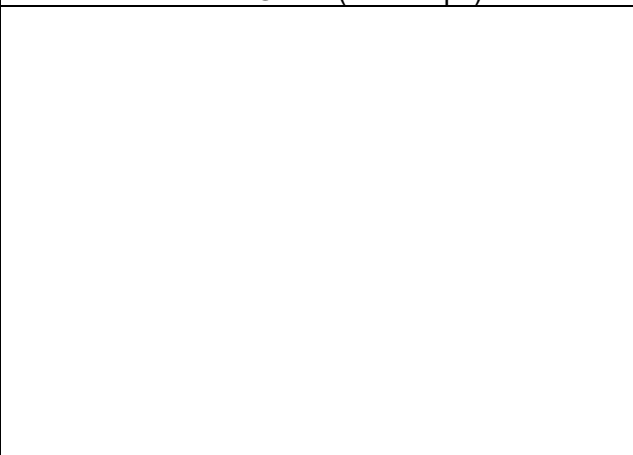
Test Mode:GFSK (LE 2Mbps) MHz



Test Mode:GFSK (LE 2Mbps) MHz

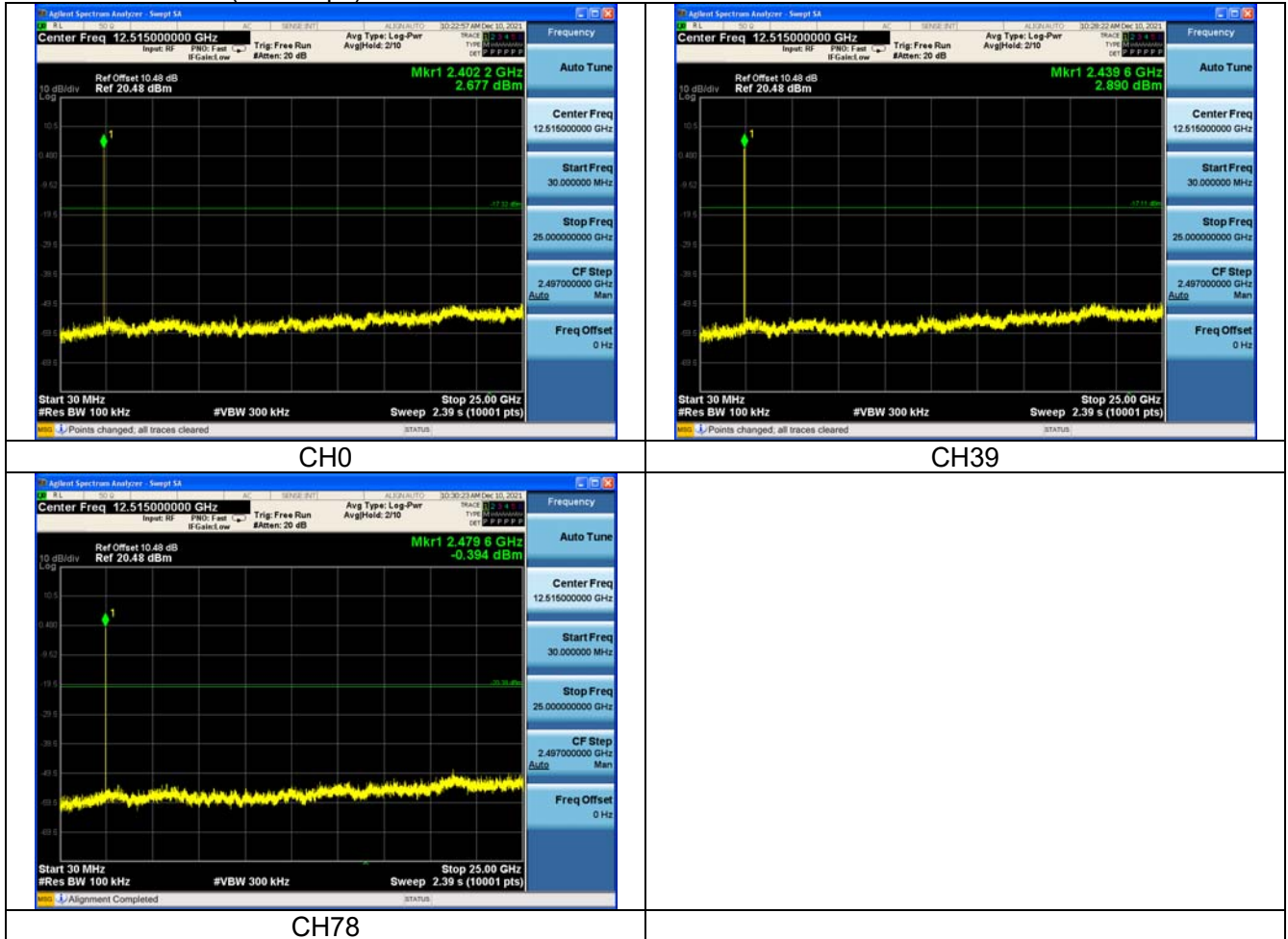


Test Mode:GFSK (LE 2Mbps) MHz

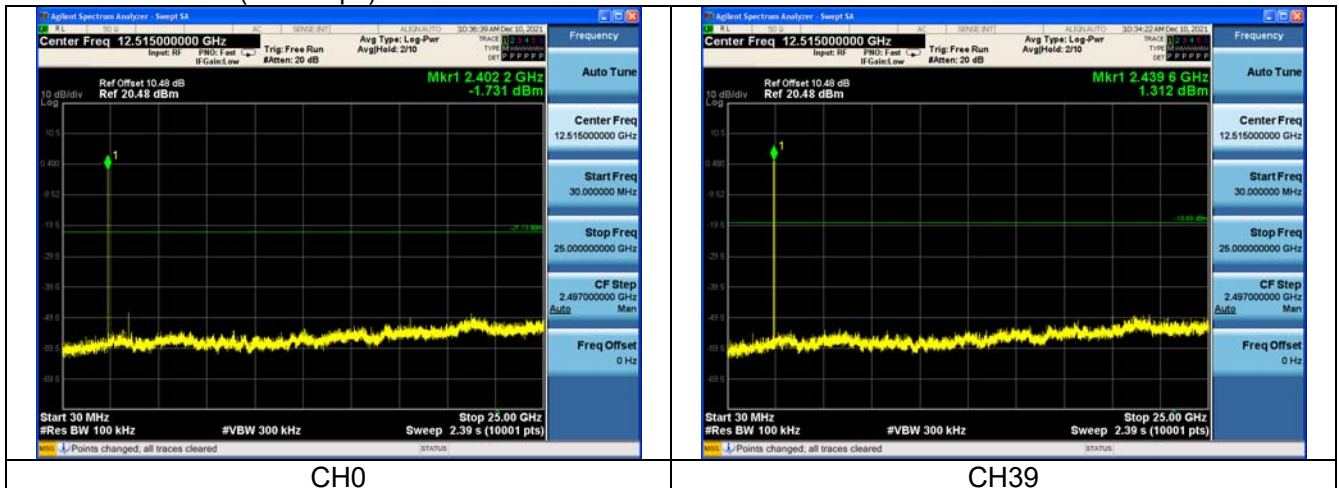


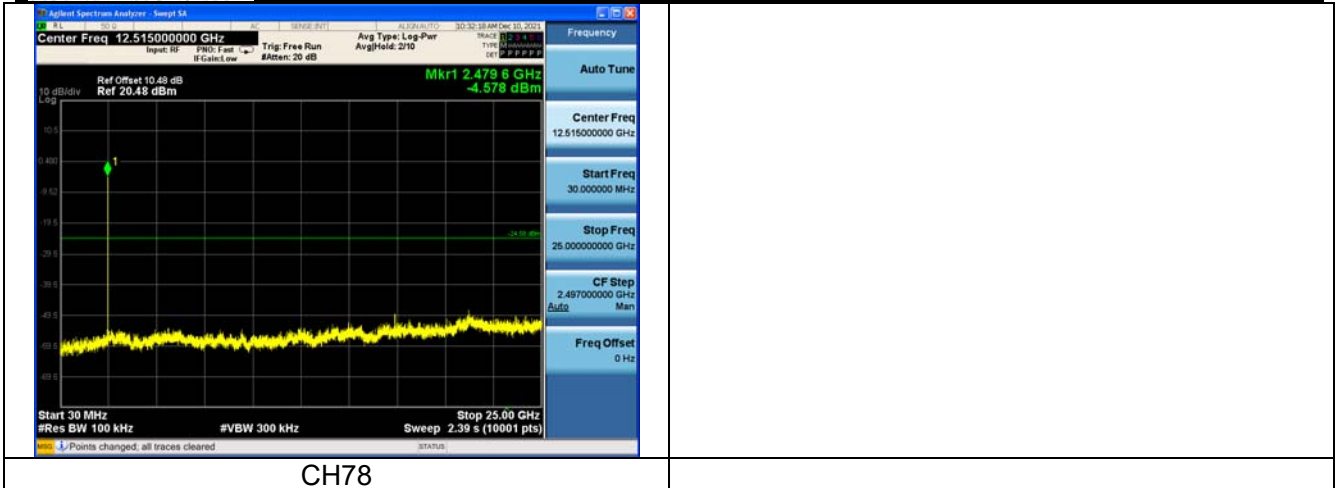
5 Conducted Out of band emission measurement

Test Mode: GFSK (LE 1Mbps)



Test Mode: GFSK (LE 2Mbps)





6 Band Edge measurement

Test Mode: GFSK (LE 1Mbps)



Test Mode: GFSK (LE 2Mbps)



APPENDIX B – TEST DATA OF RADIATED EMISSION

Radiated Emission Band Edge

The worst case attitude: The mobile lay down.

The measurement results are obtained as described below:

Measure Level = Reading Level + cable loss + antenna factor

Sample calculation: (99.01 dBuV/m) = (65.01 dBμV) + (8.90 dB) + (25.10 1/m), the corresponding frequency is 2402MHz.

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: GFSK (LE 1MBPS)

Polarity: Vertical

Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (1/m)
1	2402	99.01	65.01	N/A	N/A	8.90	25.10
2	2390	42.99	8.99	-31.01	74.00	8.90	25.10

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: GFSK (LE 1MBPS)

Polarity: Horizontal

Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (1/m)
1	2402	96.17	62.17	N/A	N/A	8.90	25.10
2	2390	42.01	8.01	-31.99	74.00	8.90	25.10

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: GFSK (LE 1MBPS)

Polarity: Vertical

Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (1/m)
1	2402	97.56	63.56	N/A	N/A	8.90	25.10
2	2390	34.34	0.34	-19.66	54.00	8.90	25.10

Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: GFSK (LE 1MBPS)
Polarity: Horizontal
Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (1/m)
1	2402	95.44	61.44	N/A	N/A	8.90	25.10
2	2390	33.83	-0.17	-20.17	54.00	8.90	25.10

Carrier frequency (MHz): 2480
Channel No.:39
Test Mode: GFSK (LE 1MBPS)
Polarity: Vertical
Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (1/m)
1	2480	93.38	59.38	N/A	N/A	8.90	25.10
2	2483.5	43.09	9.09	-30.91	74.00	8.90	25.10

Carrier frequency (MHz): 2480
Channel No.:39
Test Mode: GFSK (LE 1MBPS)
Polarity: Horizontal
Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (1/m)
1	2480	90.69	56.69	N/A	N/A	8.90	25.10
2	2483.5	41.42	7.42	-32.58	74.00	8.90	25.10

Carrier frequency (MHz): 2480
Channel No.:39
Test Mode: GFSK (LE 1MBPS)
Polarity: Vertical
Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (1/m)
1	2480	92.39	58.39	N/A	N/A	8.90	25.10
2	2483.5	34.62	0.62	-19.38	54.00	8.90	25.10

Carrier frequency (MHz): 2480
Channel No.:39

Test Mode: GFSK (LE 1MBPS)

Polarity: Horizontal

Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (1/m)
1	2480	90.08	56.08	N/A	N/A	8.90	25.10
2	2483.5	33.88	-0.12	-20.12	54.00	8.90	25.10

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: GFSK (LE 2MBPS)

Polarity: Vertical

Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (1/m)
1	2402	98.85	64.85	N/A	N/A	8.90	25.10
2	2390	43.40	9.40	-30.60	74.00	8.90	25.10

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: GFSK (LE 2MBPS)

Polarity: Horizontal

Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (1/m)
1	2402	96.09	62.09	N/A	N/A	8.90	25.10
2	2390	42.80	8.80	-31.20	74.00	8.90	25.10

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: GFSK (LE 2MBPS)

Polarity: Vertical

Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (1/m)
1	2402	97.58	63.58	N/A	N/A	8.90	25.10
2	2390	34.85	0.85	-19.15	54.00	8.90	25.10

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: GFSK (LE 2MBPS)

Polarity: Horizontal

Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (1/m)
1	2402	94.73	60.73	N/A	N/A	8.90	25.10
2	2390	33.41	-0.59	-20.59	54.00	8.90	25.10

Carrier frequency (MHz): 2480

Channel No.:39

Test Mode: GFSK (LE 2MBPS)

Polarity: Vertical

Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (1/m)
1	2480	93.16	59.16	N/A	N/A	8.90	25.10
2	2483.5	42.47	8.47	-31.53	74.00	8.90	25.10

Carrier frequency (MHz): 2480

Channel No.:39

Test Mode: GFSK (LE 2MBPS)

Polarity: Horizontal

Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (1/m)
1	2480	90.61	56.61	N/A	N/A	8.90	25.10
2	2483.5	41.97	7.97	-32.03	74.00	8.90	25.10

Carrier frequency (MHz): 2480

Channel No.:39

Test Mode: GFSK (LE 2MBPS)

Polarity: Vertical

Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (1/m)
1	2480	92.27	58.27	N/A	N/A	8.90	25.10
2	2483.5	34.63	0.63	-19.37	54.00	8.90	25.10

Carrier frequency (MHz): 2480

Channel No.:39

Test Mode: GFSK (LE 2MBPS)

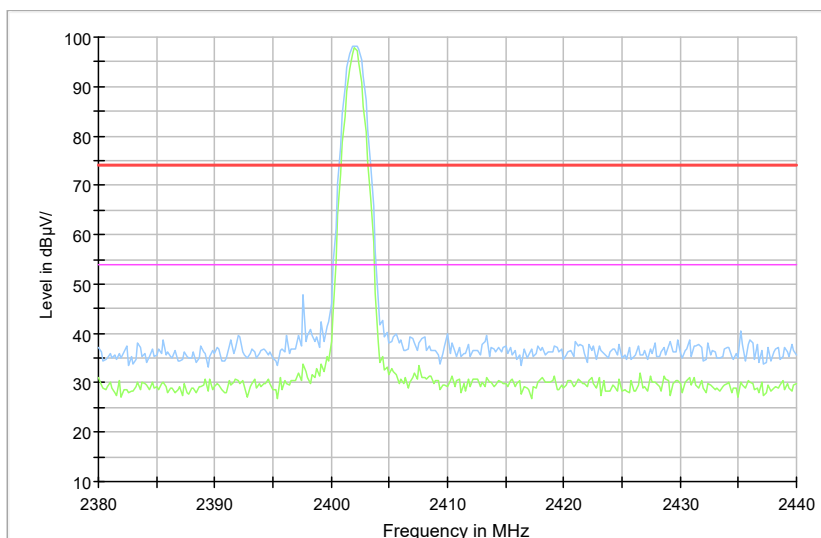
Polarity: Horizontal

Detector: Average

No	Frequency (MHz)	Measure Level	Reading Level	Over Limit	Limit (dBuV/m)	cable loss	antenna factor
----	-----------------	---------------	---------------	------------	----------------	------------	----------------

		(dBuV/m)	(dBuV)	(dB)		(dB)	(1/m)
1	2480	89.28	55.28	N/A	N/A	8.90	25.10
2	2483.5	33.64	-0.36	-20.36	54.00	8.90	25.10

Full Spectrum



Comment

Radiated Emission Band Edge for 2402MHz

Sample Calculations

Determining Spurious Emissions Levels

A “reference path loss” is established and the A_{Rpl} is the attenuation of “reference path loss”, and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

The measurement results are obtained as described below:

Result= $P_{mea} + A_{Rpl}$

Sample calculation: (21.06 dB μ V/m) = (42.16 dB μ V/m) + (-21.1 dB), the corresponding frequency is 30.388000MHz.

The worst case attitude: The mobile lay down.

For GFSK (LE 1MBPS)

Channel No.:0

Frequency (MHz)	Result (dB μ V/m)	A_{Rpl} (dB)	P_{mea} (dB μ V/m)	Polarity	Limit (dB μ V/m)
30.388000	21.06	-21.1	42.16	Vertical	40.00
40.282000	13.93	-18.5	32.43	Vertical	40.00
59.682000	23.48	-18.8	42.28	Vertical	40.00
85.484000	15.67	-22.7	38.37	Vertical	40.00
741.980000	15.30	-5.6	20.90	Vertical	46.00
918.811000	18.77	-3.0	21.77	Vertical	46.00

Channel No.:19

Frequency (MHz)	Result (dB μ V/m)	A_{Rpl} (dB)	P_{mea} (dB μ V/m)	Polarity	Limit (dB μ V/m)
30.000000	22.60	-21.3	43.90	Vertical	40.00
52.261500	12.97	-17.8	30.77	Vertical	40.00
59.488000	23.51	-18.8	42.31	Vertical	40.00
86.793500	15.39	-22.3	37.69	Vertical	40.00
717.778500	14.54	-6.5	21.04	Vertical	46.00
880.302000	17.81	-3.6	21.41	Vertical	46.00

Channel No.:39

Frequency (MHz)	Result (dB μ V/m)	A_{Rpl} (dB)	P_{mea} (dB μ V/m)	Polarity	Limit (dB μ V/m)
30.000000	22.12	-21.3	43.42	Vertical	40.00
41.300500	13.17	-18.3	31.47	Vertical	40.00
59.294000	23.52	-18.7	42.22	Vertical	40.00
86.163000	15.82	-22.5	38.32	Vertical	40.00
96.590500	13.82	-19.8	33.62	Vertical	43.50
952.324500	19.03	-2.7	21.73	Vertical	46.00

For GFSK (LE 2MBPS)

Channel No.:0

Frequency	Result	A_{Rpl}	P_{mea}	Polarity	Limit
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(MHz)	(dBuV/m)	(dB)	(dBuV/m)		(dBuV/m)
40.088000	13.65	-18.5	32.15	Vertical	40.00
40.621500	13.95	-18.4	32.35	Vertical	40.00
59.148500	23.49	-18.7	42.19	Vertical	40.00
86.114500	15.63	-22.5	38.13	Vertical	40.00
736.984500	15.23	-5.9	21.13	Vertical	46.00
909.450500	18.58	-3.1	21.68	Vertical	46.00

Channel No.:19

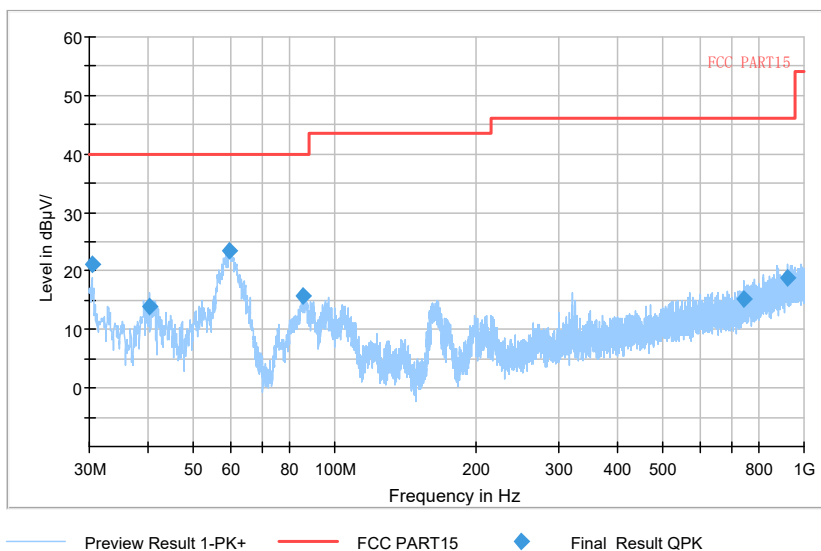
Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
30.291000	21.30	-21.2	42.50	Vertical	40.00
41.058000	13.42	-18.4	31.82	Vertical	40.00
58.663500	22.88	-18.7	41.58	Vertical	40.00
86.842000	15.25	-22.3	37.55	Vertical	40.00
97.366500	14.03	-19.6	33.63	Vertical	43.50
941.315000	19.16	-2.8	21.96	Vertical	46.00

Channel No.:39

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
30.194000	21.22	-21.2	42.42	Vertical	40.00
40.233500	13.50	-18.5	32.00	Vertical	40.00
58.954500	23.15	-18.7	41.85	Vertical	40.00
86.163000	15.65	-22.5	38.15	Vertical	40.00
96.736000	14.04	-19.8	33.84	Vertical	43.50
924.146000	18.78	-3.0	21.78	Vertical	46.00

Channel No.:0

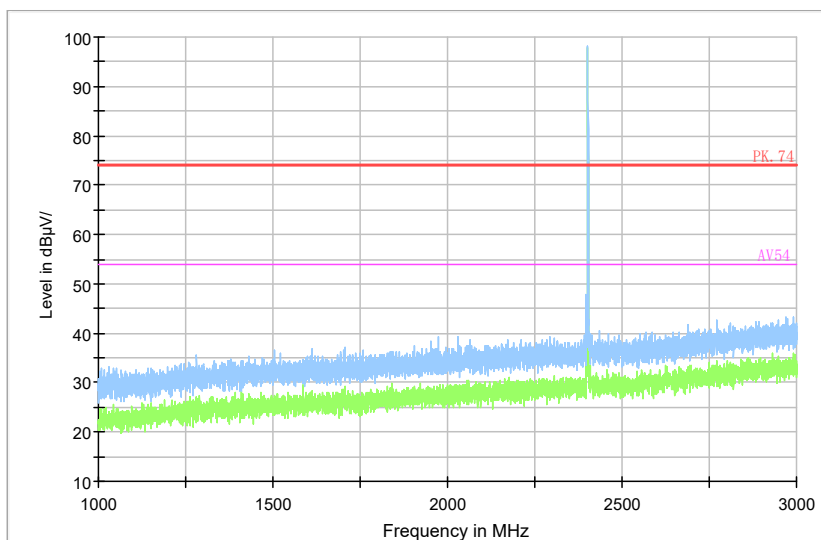
Full Spectrum



Comment

Frequency Range: 30MHz-1000 MHz
Detector: QP mode
Modulation type: GFSK (LE 1MBPS)

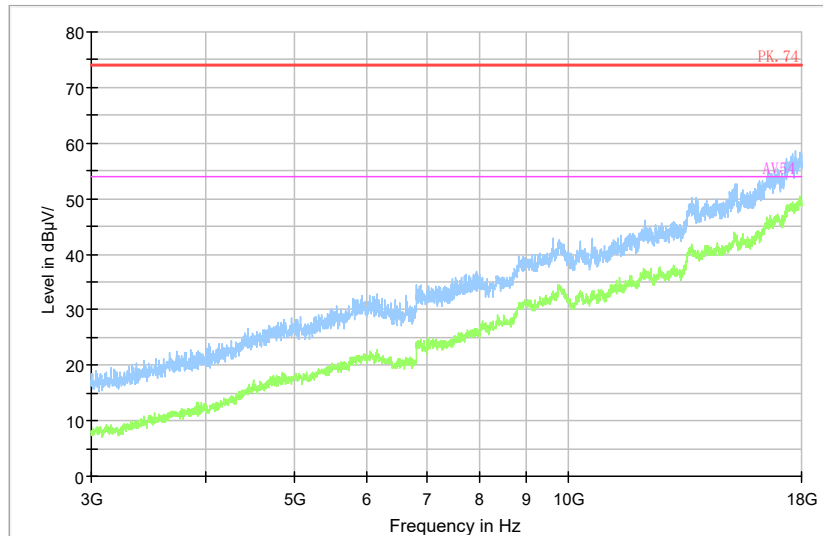
Full Spectrum



Comment

Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1MBPS)

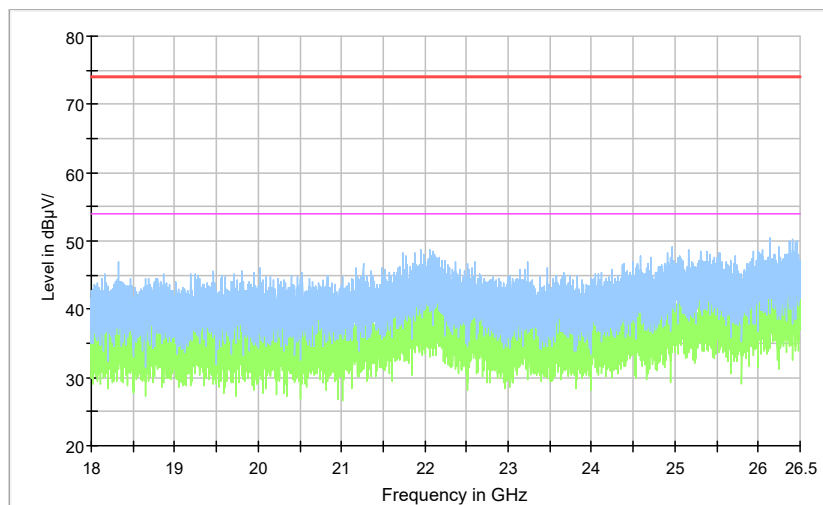
Full Spectrum



Comment

Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1MBPS)

Full Spectrum



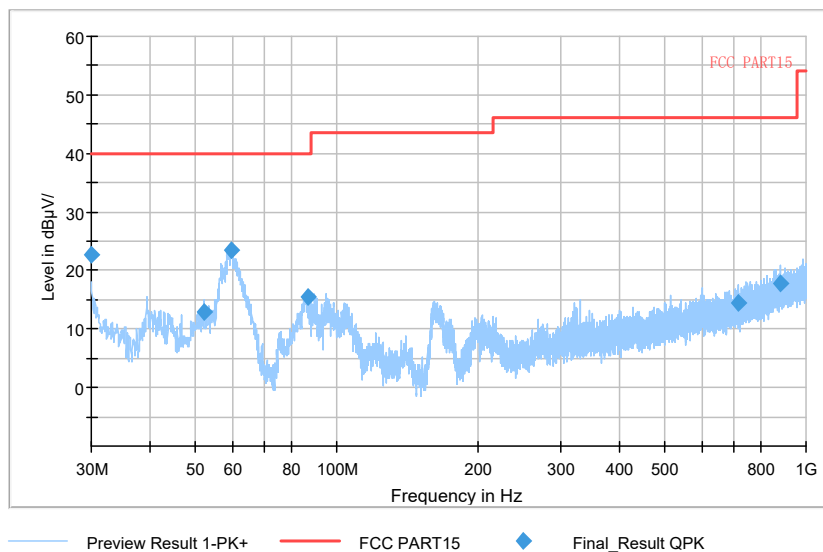
Preview Result 2-AVG Preview Result 1-PK+ PK70-74 AV50-54

Comment

Frequency Range: 18GHz-25GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1MBPS)

Channel No.:19

Full Spectrum



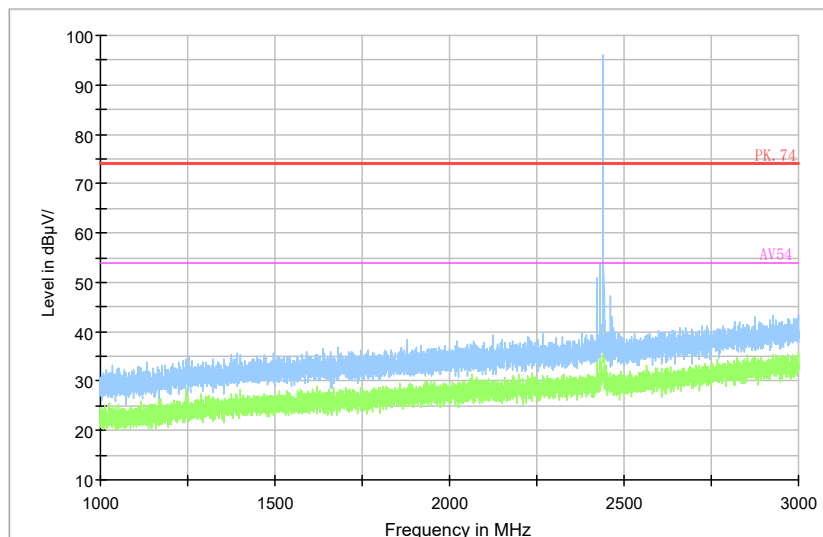
Comment

Frequency Range: 30MHz-1000 MHz

Detector: QP mode

Modulation type: GFSK (LE 1MBPS)

Full Spectrum



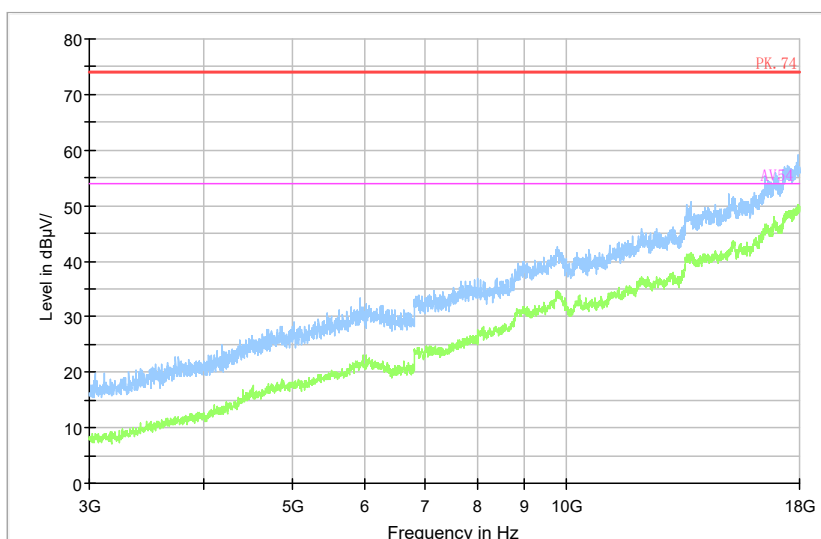
Comment

Frequency Range: 1GHz-3GHz

Detector: Av mode and PK mode

Modulation type: GFSK (LE 1MBPS)

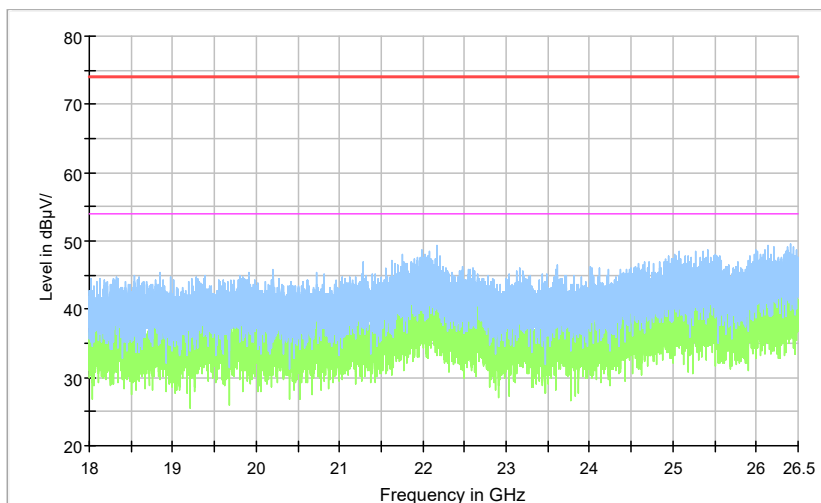
Full Spectrum



Comment

Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1MBPS)

Full Spectrum



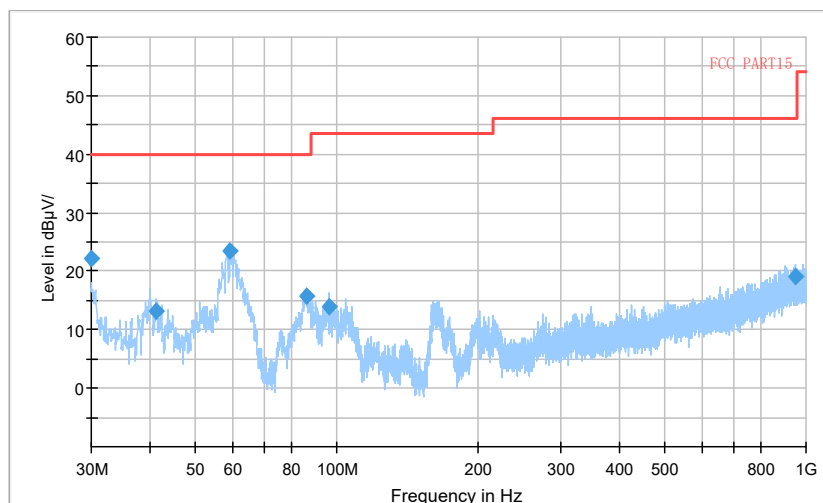
Preview Result 2-AVG Preview Result 1-PK+ PK70-74 AV50-54

Comment

Frequency Range: 18GHz-25GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1MBPS)

Channel No.:39

Full Spectrum



Preview Result 1-PK+ FCC PART15 Final_Result QPK

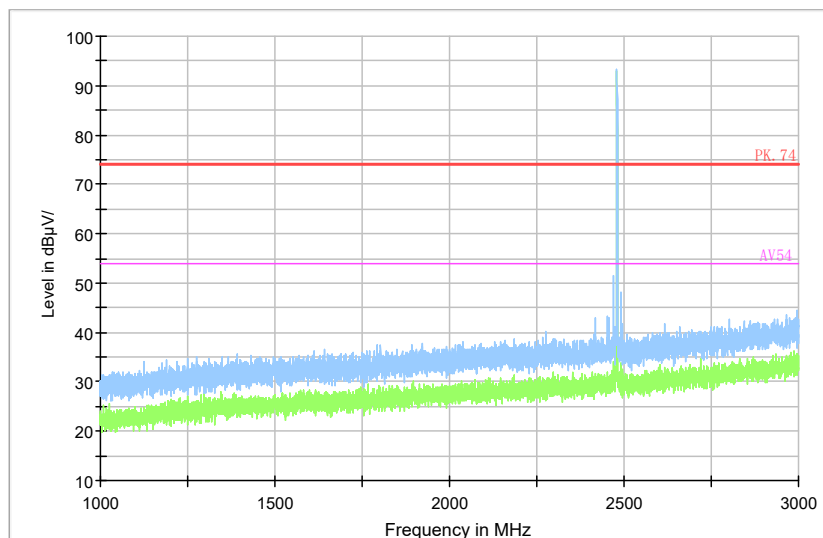
Comment

Frequency Range: 30MHz-1000 MHz

Detector: QP mode

Modulation type: GFSK (LE 1MBPS)

Full Spectrum



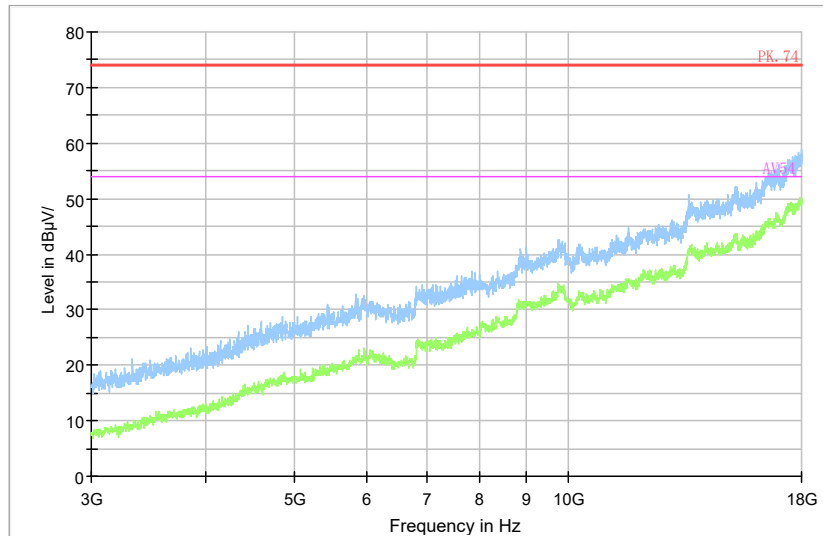
Comment

Frequency Range: 1GHz-3GHz

Detector: Av mode and PK mode

Modulation type: GFSK (LE 1MBPS)

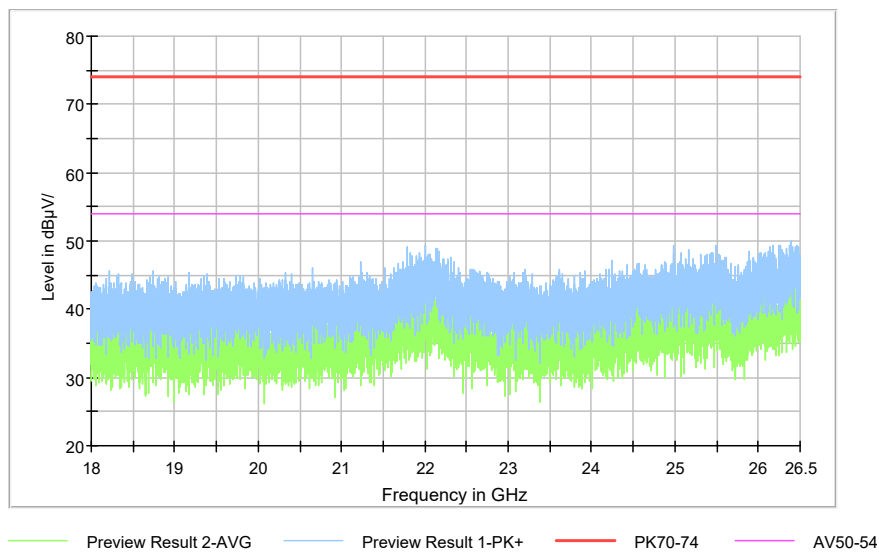
Full Spectrum



Comment

Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1MBPS)

Full Spectrum

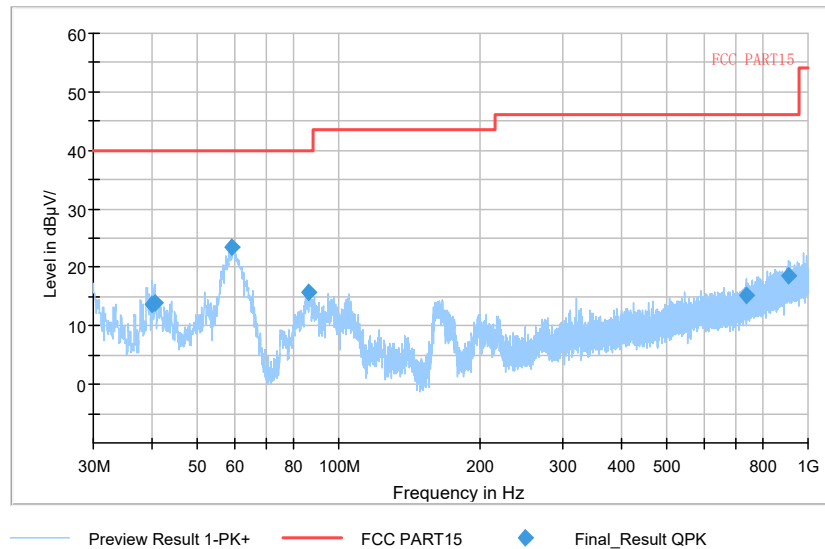


Comment

Frequency Range: 18GHz-25GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1MBPS)

Channel No.:0

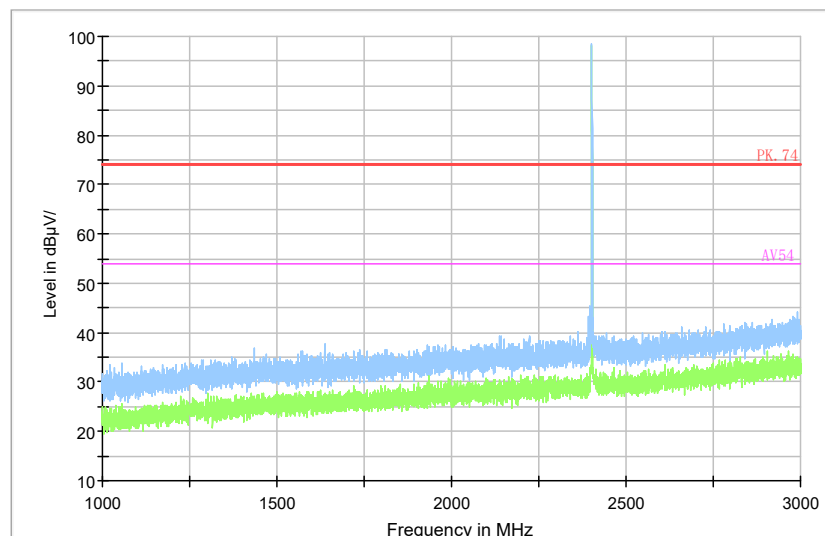
Full Spectrum



Comment

Frequency Range: 30MHz-1000 MHz
Detector: QP mode
Modulation type: GFSK (LE 2MBPS)

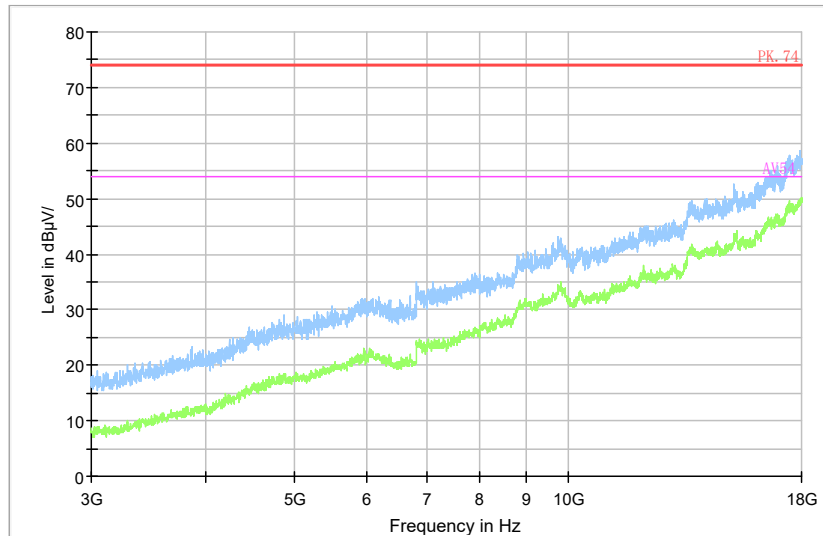
Full Spectrum



Comment

Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 2MBPS)

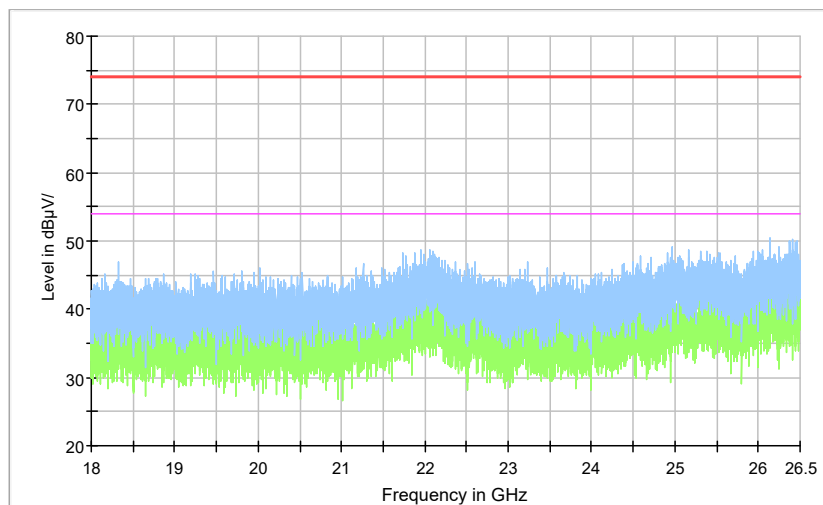
Full Spectrum



Comment

Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 2MBPS)

Full Spectrum



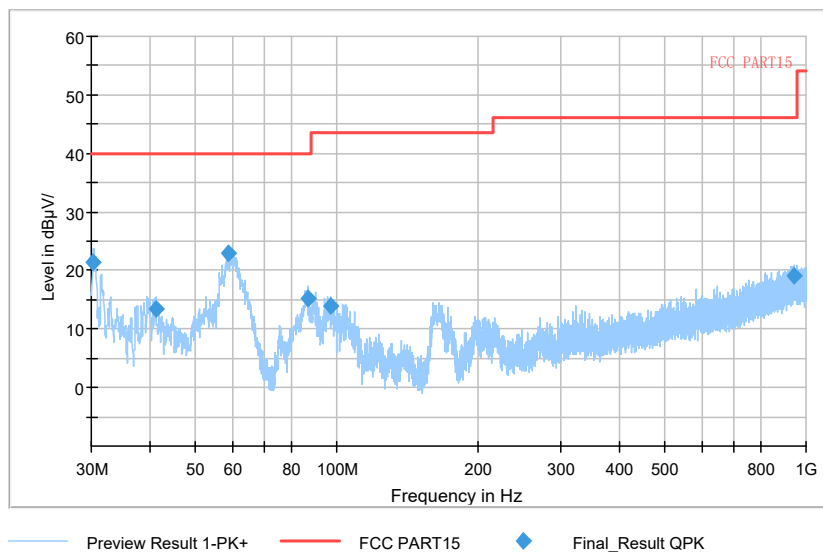
Preview Result 2-AVG Preview Result 1-PK+ PK70-74 AV50-54

Comment

Frequency Range: 18GHz-25GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 2MBPS)

Channel No.:19

Full Spectrum



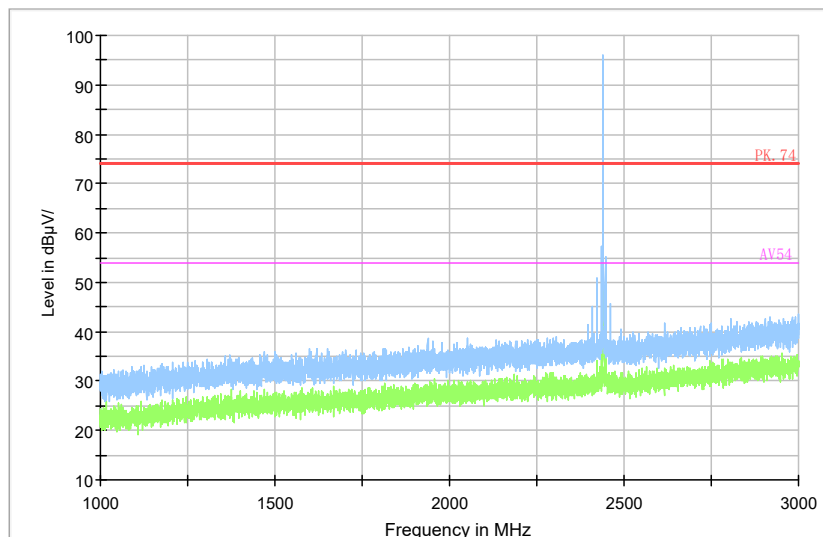
Comment

Frequency Range: 30MHz-1000 MHz

Detector: QP mode

Modulation type: GFSK (LE 2MBPS)

Full Spectrum



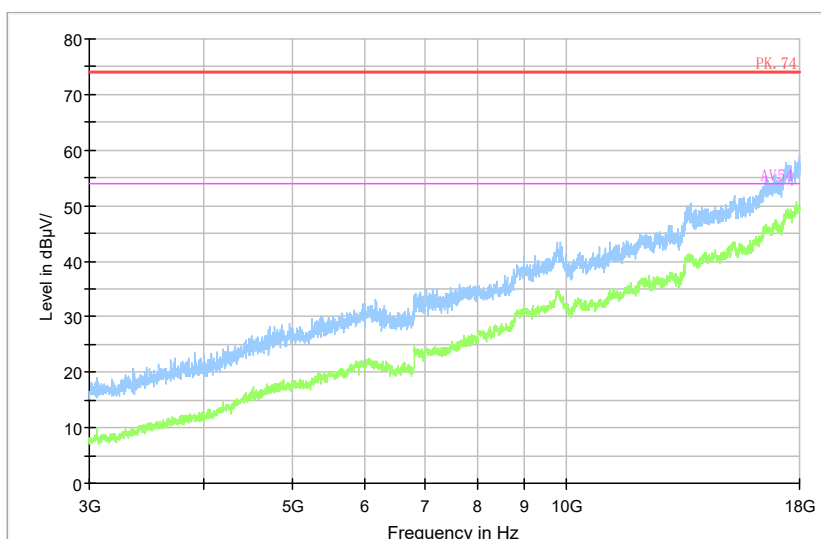
Comment

Frequency Range: 1GHz-3GHz

Detector: Av mode and PK mode

Modulation type: GFSK (LE 2MBPS)

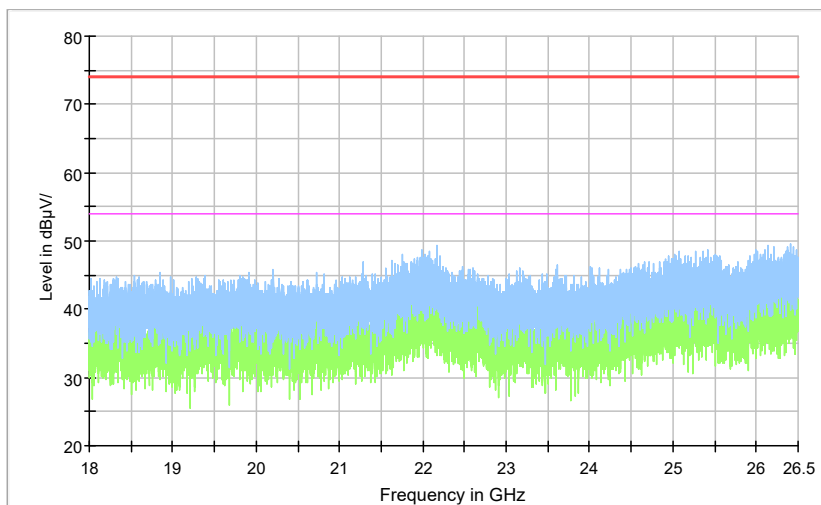
Full Spectrum



Comment

Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 2MBPS)

Full Spectrum



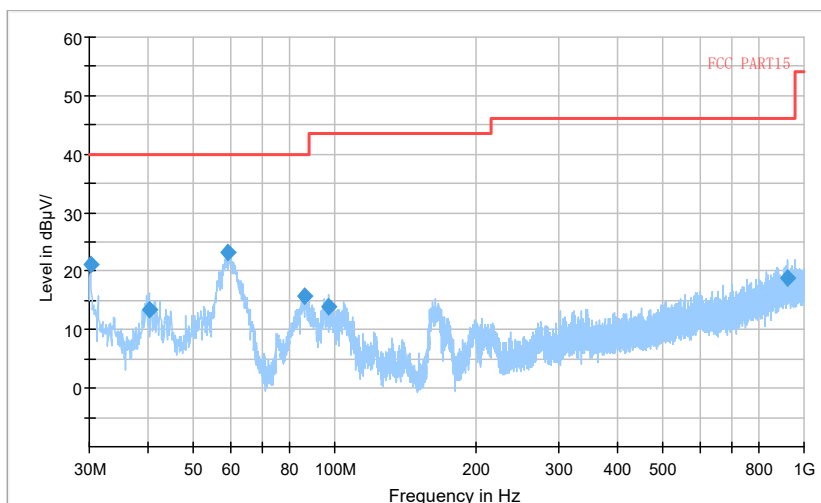
Preview Result 2-AVG Preview Result 1-PK+ PK70-74 AV50-54

Comment

Frequency Range: 18GHz-25GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 2MBPS)

Channel No.:39

Full Spectrum



Preview Result 1-PK+ FCC PART15 Final_Result QPK

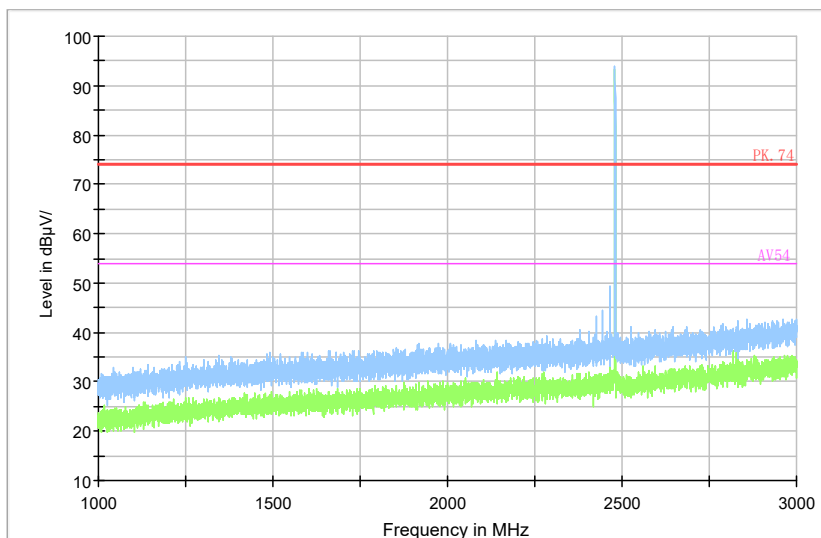
Comment

Frequency Range: 30MHz-1000 MHz

Detector: QP mode

Modulation type: GFSK (LE 2MBPS)

Full Spectrum



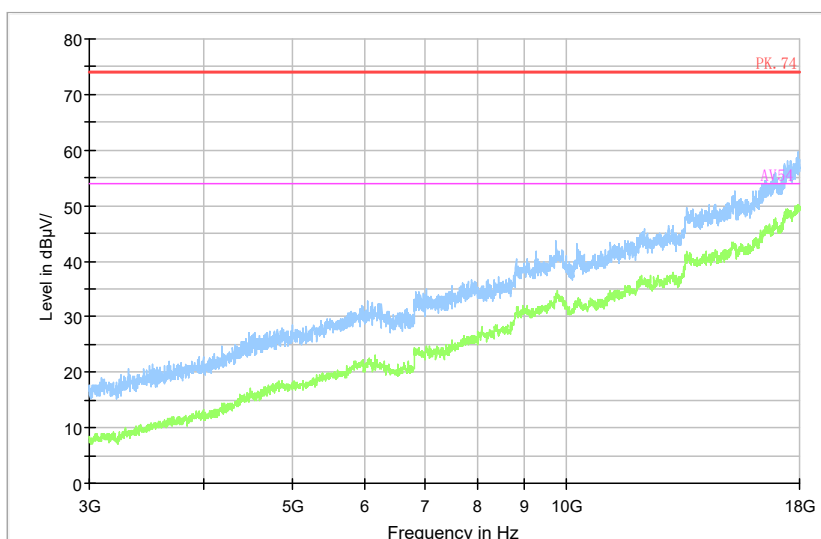
Comment

Frequency Range: 1GHz-3GHz

Detector: Av mode and PK mode

Modulation type: GFSK (LE 2MBPS)

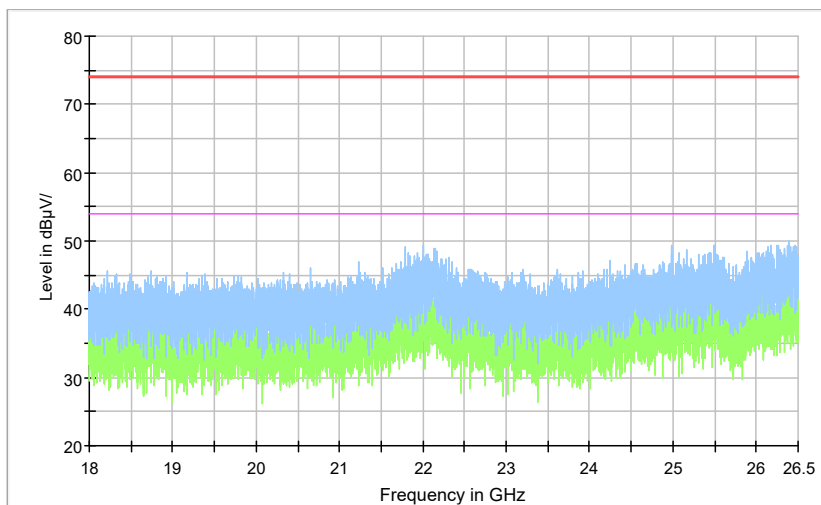
Full Spectrum



Comment

Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 2MBPS)

Full Spectrum



Preview Result 2-AVG Preview Result 1-PK+ PK70-74 AV50-54

Comment

Frequency Range: 18GHz-25GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 2MBPS)

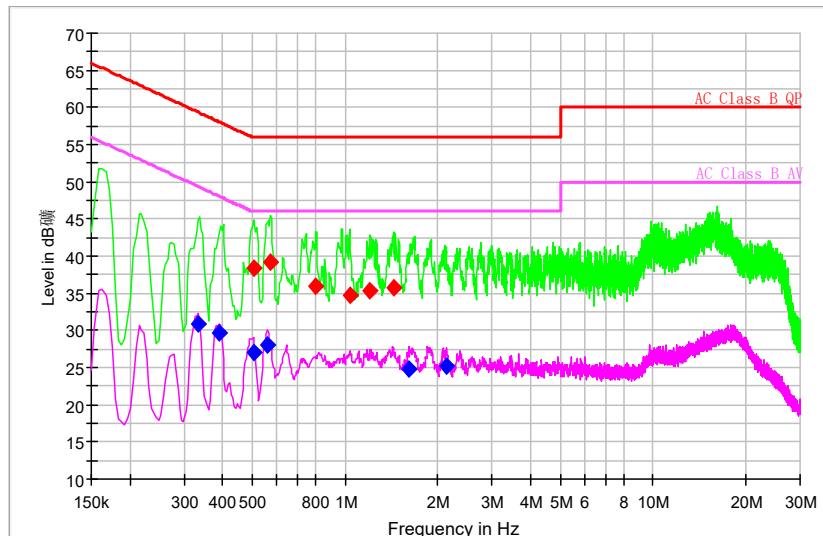
AC Power line Conducted Emission

A "reference path loss" Corr.(dB) is established and the $L_{\text{cable}} + \text{ATT} + \text{VDF}$ is the attenuation of "reference path loss", and including the cable loss, the attenuation of the attenuator, the voltage division factor of AMN.

The measurement results are obtained as described below:

$$P_{\text{result}} = P_{\text{mea}} + \text{Corr. (dB)}$$

Sample calculation: $(30.91 \text{ dB}\mu\text{V}) = (1.31 \text{ dB}\mu\text{V}) + (29.6 \text{ dB})$, the corresponding frequency is 0.333364MHz.



— Preview Result 2-AVG — Preview Result 1-PK+ — AC Class B QP
— AC Class B AV ◆ Final_Result QPK ◆ Final_Result AVG

Comment

L+N Line

MEASUREMENT RESULT:

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	Pmea Quasi Peak (dBμ V)	Pmea Avera ge (dBμ V)
0.333364	---	30.91	49.37	18.46	L1	29.6	---	1.31
0.388800	---	29.59	48.09	18.50	L1	29.6	---	-0.01
0.503936	---	26.98	46.00	19.02	L1	29.6	---	-2.62
0.503936	38.44	---	56.00	17.56	L1	29.6	8.84	---
0.559371	---	28.00	46.00	18.00	L1	29.6	---	-1.6
0.572164	39.21	---	56.00	16.79	L1	29.6	9.61	---
0.802436	35.85	---	56.00	20.15	L1	29.6	6.25	---
1.032707	34.69	---	56.00	21.31	L1	29.7	4.99	---
1.207543	35.27	---	56.00	20.73	L1	29.7	5.57	---
1.433550	35.73	---	56.00	20.27	L1	29.7	6.03	---
1.612650	---	24.81	46.00	21.20	N	29.7	---	-4.89
2.137157	---	25.11	46.00	20.89	N	29.7	---	-4.59

---End of Test Report---