



## **TEST REPORT**

Applicant:	HIVID Global Oy		
Address:	Bertel Jungin aukio 9 Espoo 02600	) Finland	
Manufacturer or Supplier:	HMD Global Oy		
Address:	Bertel Jungin aukio 9 Espoo 02600	) Finland	
Product:	Smartphone		
Brand Name:	нмр		
Model Name:	N159V		
FCC ID:	2AJOTTA-1590		
Date of tests:	Jan. 02, 2024 ~ Jan. 30, 2024		
The submitted san following standards		peen tested for according to the requirements of the	
<ul><li> FCC Part 15, S</li><li> FCC Part 22</li><li> FCC Part 27</li><li> FCC Part 2</li></ul>	Subpart C, Section 15.247	NSI C63.10-2013	
CONCLUSION: Th	e submitted sample was found to	COMPLY with the test requirement	
-	Prepared by Hanwen Xu Engineer / Mobile Department Approved by Peibo Sun Manager / Mobile Department		
X	Ru Hanner Simpei bo		
	ate: Jan. 30, 2024	Date: Jan. 30, 2024	
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## **RELEASE CONTROL RECORD**

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
PSU-NQN2311090109RF09	Original release	Jan. 30, 2024

## 1 GENERAL INFORMATION

## 1.1 GENERAL DESCRIPTION OF EUT

PRODUCT*	Smartphone			
BRAND NAME*	HMD	нмр		
MODEL NAME*	N159V			
NOMINAL VOLTAGE*	5.0Vdc (adapter) 3.87Vdc (battery)			
	BT_LE	GFSK		
	Bluetooth	GFSK, π/4-DQPSK, 8DPSK		
	FM	FM		
MODUL ATION TYPE	WLAN	DSSS, OFDM		
MODULATION TYPE	GPS	BPSK		
	GSM/GPRS/EDGE	GMSK, 8PSK		
	WCDMA	HSDPA/HSUPA/DC-HSDPA		
	LTE	QPSK/16QAM/64QAM		
	Bluetooth/BT_LE	2402MHz ~ 2480MHz		
	FM	87.5MHz ~ 108MHz		
OPERATING FREQUENCY	WLAN	2412 ~ 2462MHz for 11b/g/n(HT20/40) 5180 ~ 5240MHz, 5260 ~ 5320 MHz, 5500 ~ 5720MHz, 5745 ~ 5825 MHz for 11a/ n(HT20)/ n(HT40) / ac(VHT20)/ ac(VHT40) / ac(VHT80)		
	GPS	1559MHz ~ 1610MHz		
	GSM	824.2MHz ~ 848.8MHz (FOR GSM 850) 1850.2MHz ~ 1909.8MHz (FOR GSM 1900)		



	WCDMA	1852.4MHz ~ 1907.6MHz(FOR WCDMA Band 2) 826.4MHz ~ 846.6MHz (FOR WCDMA Band 5)	
OPERATING FREQUENCY	LTE	1850.7MHz ~ 1909.3MHz	
HW VERSION*	V 1.0		
SW VERSION*	02US_0_101		
I/O PORTS*	Refer to user's manual		
CABLE SUPPLIED*	N/A		
ACCESSORY DEVICES*	Refer to note as below		

#### NOTE:

- 1. \*Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, Test Lab is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
- 2. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown



in test report.

4. For the product of N159V(FCC ID 2AJOTTA-1590), the following components are different between the first and second supply, other parameters are the same.

Component		First supply		Second supply	
		Supplier	specificatons	Supplier	specificatons
	3GB LPDDR	Longsys	3GB	biwin	3GB
64GB PCBA EMMC		Longsys	64GB	biwin	64GB
	Charger IC	SGMICRO	3.78A Single Cell Switching Battery Charger IC	Unisemi	3.78A Single Cell Switching Battery Charger IC
LCM	LCD	TCL	LCD a-Si TFT;720*1612	Icetron	LCD a-Si TFT;720*1612
Front camera	Camera	Union Image	5M;FF	Imaging	5M;FF
Camera		Union Image	13 AF	Sunwin	13 AF
CAM	Camera	SEGA	2M	Imaging	2M
	Vibrator	KunWang	0830	HONGZHIFA	0830
Acoustic	FPC	XINYE	Speaker FPC: 32.1*11.46*0.15	Lat	Speaker FPC: 32.1*11.46*0.15
LED		Runlite	White LED;500mA;1500mA	latticepower	White LED;500mA;1500mA
Battery		gaoyuan	4000mAh;3.87V;4.45V	highpower	4000mAh;3.87V;4.45V
antenna		Haitong	Omni-directional,Linear, antenna shrapnel	Kexinhuacheng	Omni-directional, Linear,antenna shrapnel
MIC		Gettop	L2.75xW1.85xH0.9 mm	goertek	L2.75xW1.85xH0.9 mm
Data cable	9	Saibao	5V2A	TorchWay	5V2A

#### **List of Accessory:**

ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
Battery 1	Gaoyuan	N/A	CH426385	Power Rating: 15.48Wh
Battery 2	Highpower	N/A	CH426385	Power Rating: 15.48Wh
AC Adapter	BaiJunDa	BaiJunDa	HAD-010U	I/P: 100-240Vac, O/P: 4.8~5.4Vdc, 2.0A
USB Cable 1	Saibao	N/A	SZN-A036A	Signal Line, 1.0meter 5V 2A
USB Cable 2	TorchWay	N/A	JWUB1651-ZN01H	Signal Line, 1.0meter 5V 2A

#### 2 SUMMARY OF TEST RESULTS

#### 2.1 TEST RESULTS

TEST TYPE	Result	Test lab*
Radiated Emissions	Pass	Α

#### \*Test Lab Information Reference

Lab A:

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zhuyi Road, High-tech District, Suzhou City, Anhui Province

**Accredited Test Lab Cert 6613.01** 

The FCC Site Registration No. is 434559; The Designation No. is CN1325.

## 2.2 MEASREMENT UNCERTAINTY

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

MEASUREMENT	UNCERTAINTY
Radiated emissions & Radiated Power (30MHz~1GMHz)	±4.98dB
Radiated emissions & Radiated Power (1GMHz ~6GMHz)	±4.70dB
Radiated emissions (6GMHz ~18GMHz)	±4.60dB
Radiated emissions (18GMHz ~40GMHz)	±4.12dB

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

#### 2.3 **TEST INSTRUMENTS**

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Pre-Amplifier	R&S	SCU18F1	100815	Aug.30,22	Aug.29,24
Pre-Amplifier	R&S	SCU08F1	101028	Sep.16,22	Sep.15,24
Signal Generator	R&S	SMB100A	182185	Feb.16,22	Feb.15,24
3m Fully-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC- 01Chamber	Nov.25,22	Nov.24,25
3m Semi-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC- 02Chamber	Nov.25,22	Nov.24,25
EMI TEST Receiver	R&S	ESW44	101973	Feb.25,22	Feb.24,24
Bilog Antenna	SCHWARZBEC K	VULB 9163	1264	Feb.28,22	Feb.27,24
Horn Antenna	ETS-LINDGREN	3117	227836	Aug.22,22	Aug.21,24
Horn Antenna (18GHz-40GHz)	Steatite Q-par Antennas	QMS 00880	23486	Feb.23,22	Feb.22,24
Horn Antenna	Steatite Q-par Antennas	QMS 00208	23485	Aug.22,22	Aug.21,24
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.23,22	Feb.22,24
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.27,22	Jun.26,24
Test Software	ELEKTRA	ELEKTRA4.32	N/A	N/A	N/A
Open Switch and Control Unit	R&S	OSP220	101964	N/A	N/A
DC Source	HYELEC	HY3010B	551016	Aug.31,22	Aug.30,24
Hygrothermograph	DELI	20210528	SZ014	Sep.06,22	Sep.05,24
PC	LENOVO	E14	HRSW0024	N/A	N/A
TMC-AMI18843A(CA BLE)	R&S	HF290-NMNM- 7.00M	N/A	N/A	N/A
TMC-AMI18843A(CA BLE)	R&S	HF290-NMNM- 4.00M	N/A	N/A	N/A
CABLE	R&S	W13.02	N/A	Apr.28,23	Apr.27,24
CABLE	R&S	W13.02	N/A	Apr.28,23	Apr.27,24
CABLE	R&S	W12.14	N/A	Apr.28,23	Apr.27,24
CABLE	R&S	W12.14	N/A	Apr.28,23	Apr.27,24

- NOTE: 1. The calibration interval of the above test instruments is 12 months or 24 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
  - 2. The test was performed in 3m Chamber.
  - 3. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
  - 4. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.

## 2.4 REFERENCED STANDARDS

The fellowing referenced standards are necessary for the report. For undated references in this report, the

cited version applies.

No.	Identify	Note
1	FCC Part 15, Subpart C, Section 15.247	For 2.4G WIFI&BT
2	FCC Part 15, Subpart E, Section 15.407	For 5G WIFI
3	FCC PART 22, Subpart H	For WWAN
	FCC PART 24, Subpart E	For WWAN
4	FCC Part 27	For WWAN

Note: More informations and test procedures pls refer to 15.247/15.407/Part22/Part24/ Part27 reports.

## 2.5 TEST CONFIGURATIONS

Test Configurations	Description	
	Worst case test Mode	
1	GSM1900_LINK+2.4G_WIFI_11G_TX_CH1	
2	WCDMA_B5_LINK+5G_WIFI_11AC80_TX_CH106	
3	LTE_B13_LINK+BT2.0_GFSK_TX_CH78	

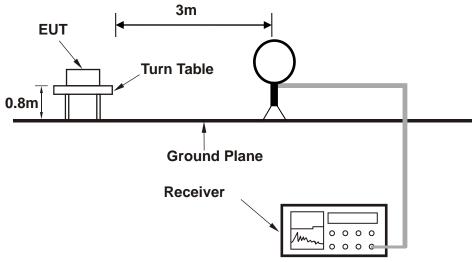
Note:

- 1. Test equipment and site refer to Referenced Standards report
- 2. For higher frequency, the emission is 20dB below the limit was not record

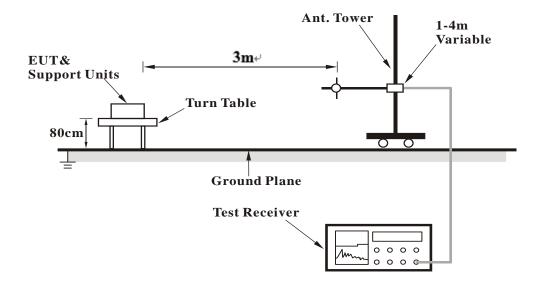


### 2.6 TEST DATA

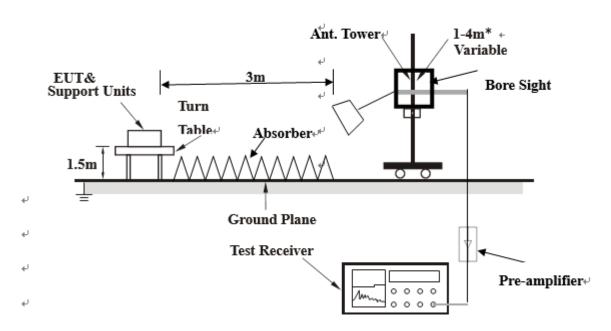
### <Frequency Range 9KHz~30MHz >



#### < Frequency Range 30MHz~1GHz >



### <Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

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

#### 2.6.1 EUT OPERATING CONDITIONS

- a. Set the EUT under full load condition and placed them on a testing table.
- Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- c. The necessary accessories enable the EUT in full functions.



#### 2.6.2 TEST RESULTS

NOTE: The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

GSM1900\_LINK+2.4G\_WIFI\_11G\_TX\_CH1:

#### **BELOW 1GHz WORST-CASE DATA:**

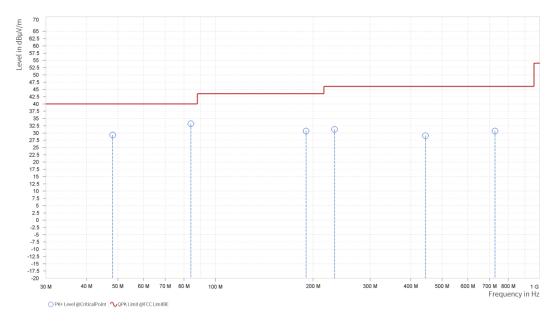
#### 30MHz - 1GHz data:

ICHANNEI	GSM1900_LINK+2.4G_WI FI_11G_TX_CH1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		, ,

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+: QPK Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	48.214	29.33	40.00	10.67	-7.44	Н	355.5	2.00
1	83.943	33.18	40.00	6.82	-12.76	Н	258.9	2.00
1	190.212	30.69	43.50	12.81	-9.37	Н	191.9	1.00
1	232.892	31.24	46.00	14.76	-7.57	Н	209.8	1.00
1	443.974	29.08	46.00	16.92	-3.79	Н	347.9	1.00
1	727.699	30.70	46.00	15.30	0.06	Н	191.9	1.00

- 1. Emission level (dBuV/m) = Read level (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value =Limit value Emission level.



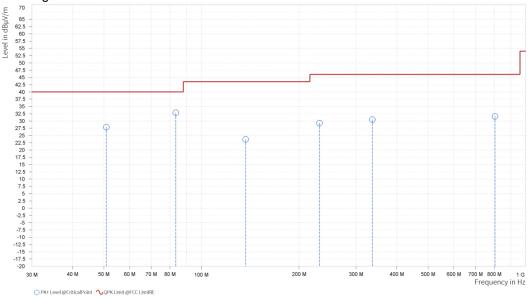


ICHANNEI	GSM1900_LINK+2.4G_WI FI_11G_TX_CH1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		,

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+: QPK Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	50.909	27.89	40.00	12.11	-7.53	V	275.5	2.00
1	83.404	32.84	40.00	7.16	-12.89	V	206.2	2.00
1	136.862	23.68	43.50	19.82	-12.41	V	330.6	1.00
1	231.113	29.27	46.00	16.73	-7.67	V	330.6	1.00
1	336.358	30.48	46.00	15.52	-4.17	V	170.5	2.00
1	803.737	31.60	46.00	14.40	1.05	V	48.5	1.00

- 1. Emission level (dBuV/m) = Read level (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value =Limit value— Emission level.





#### **ABOVE 1GHz WORST-CASE DATA:**

**Note:** For higher frequency, the emission is too low to be detected.

ICHANNEI	GSM1900_LINK+2.4G_WI FI_11G_TX_CH1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 18GHz		, ,

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]		PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
3	3,760.000	48.76	74.00	25.24	38.35	54.00	15.65	3.46	Н	1	2.00
3	4,823.000	51.16	74.00	22.84	39.89	54.00	14.11	4.29	Н	359	2.00
3	5,640.000	52.14	74.00	21.86	41.16	54.00	12.84	6.25	Н	1	2.00
3	7,236.000	56.45	74.00	17.55	44.25	54.00	9.75	11.18	Н	1	2.00

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]		AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
3	3,760.000	49.19	74.00	24.81	38.22	54.00	15.78	3.46	٧	0.9	2.00
3	4,824.000	51.04	74.00	22.96	39.94	54.00	14.06	4.31	٧	133.4	2.00
3	5,640.000	51.54	74.00	22.46	41.23	54.00	12.77	6.25	V	133.4	2.00
3	7,236.000	54.48	74.00	19.52	44.43	54.00	9.57	11.18	V	133.4	2.00

#### **REMARKS:**

 Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Limit value - Emission level.



NOTE: The  $9K\sim30MHz$  amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

WCDMA\_B5\_LINK+5G\_WIFI\_11AC80\_TX\_CH106:

#### **BELOW 1GHz WORST-CASE DATA:**

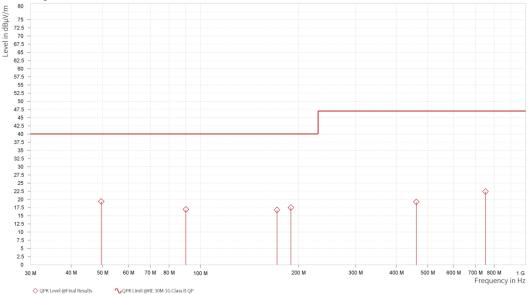
#### 30MHz - 1GHz data:

ICHANNEI	WCDMA_B5_LINK+5G_WI FI_11AC80_TX_CH106	 Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz	,

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	QPK Level [dBμV/m]	_	QPK Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]
1	49.486	19.36	40.00	20.64	-18.25	Н	359	2.00	120.000
1	90.074	16.93	40.00	23.07	-21.71	Н	359	2.00	120.000
1	171.797	16.75	40.00	23.25	-22.34	Н	359	2.00	120.000
1	189.472	17.49	40.00	22.51	-20.88	Н	1	1.00	120.000
1	460.763	19.21	47.00	27.79	-14.22	Н	1	2.00	120.000
1	751.532	22.38	47.00	24.62	-8.88	Н	1	1.00	120.000

- 1. Emission level (dBuV/m) = Read level (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value =Limit value- Emission level.



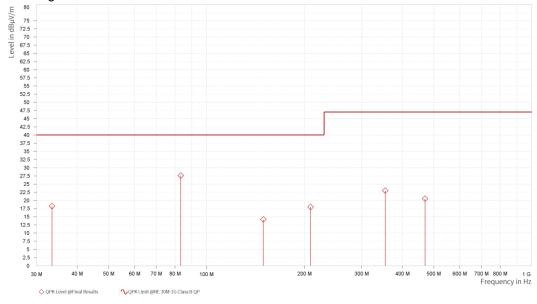


CHANNEL	WCDMA_B5_LINK+5G _WIFI_11AC80_TX_CH 106	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz	

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	QPK Level [dBμV/m]	QPK Limit [dBμV/m]	QPK Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]
1	33.463	18.25	40.00	21.75	-21.33	V	91	1.00	120.000
1	83.316	27.59	40.00	12.41	-23.58	V	181	2.00	120.000
1	149.341	14.17	40.00	25.83	-23.24	V	1	1.00	120.000
1	208.737	17.97	40.00	22.03	-20.22	V	1	1.00	120.000
1	354.332	22.98	47.00	24.02	-15.94	V	181	2.00	120.000
1	469.589	20.53	47.00	26.47	-14.00	V	181	1.00	120.000

- 1. Emission level (dBuV/m) = Read level (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value =Limit value Emission level.





#### **ABOVE 1GHz WORST-CASE DATA:**

**Note:** For higher frequency, the emission is too low to be detected.

ICHANNEI	WCDMA_B5_LINK+5G_WI FI_11AC80_TX_CH106	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		, ,

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	1,672.800	38.39	74.00	35.61	27.64	54.00	26.36	-5.54	Ι	5	1.00
1	2,509.200	44.79	74.00	29.21	33.03	54.00	20.97	1.35	Н	1	1.00
4	11,060.000	36.47	74.00	37.53	26.43	54.00	27.57	12.03	Н	1	1.00
4	16,590.000	47.10	74.00	26.90	36.24	54.00	17.76	19.90	Н	1	1.00

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	1,672.800	38.02	74.00	35.98	28.07	54.00	25.93	-5.54	٧	1	1.00
1	2,509.200	43.52	74.00	30.48	33.46	54.00	20.54	1.35	V	1	1.00
4	11,060.000	37.19	74.00	36.81	26.61	54.00	27.39	12.03	V	358.6	1.00
4	16,590.000	47.40	74.00	26.60	36.97	54.00	17.03	19.90	V	359.1	1.00

#### **REMARKS:**

 Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Limit value - Emission level.



NOTE: The  $9K\sim30MHz$  amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

#### LTE\_B13\_LINK+BT2.0\_GFSK\_TX\_CH78:

#### **BELOW 1GHz WORST-CASE DATA:**

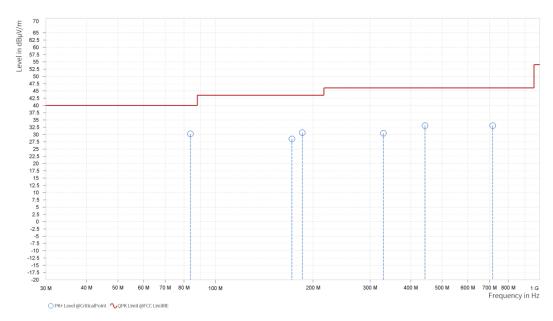
#### 30MHz - 1GHz data:

CHANNEL	LTE_B13_LINK+BT2.0_GF SK_TX_CH78	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE			,

#### **ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+: QPK Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	83.690	30.23	40.00	9.77	-12.82	Н	259	1.00
1	171.960	28.48	43.50	15.02	-11.06	Н	127.4	1.00
1	185.249	30.62	43.50	12.88	-9.97	Н	232.7	2.00
1	329.585	30.43	46.00	15.57	-4.51	Н	127.4	1.00
1	442.687	33.07	46.00	12.93	-3.77	Н	359	2.00
1	716.130	33.05	46.00	12.95	-0.26	Н	127.4	1.00

- 1. Emission level (dBuV/m) = Read level (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value =Limit value— Emission level.



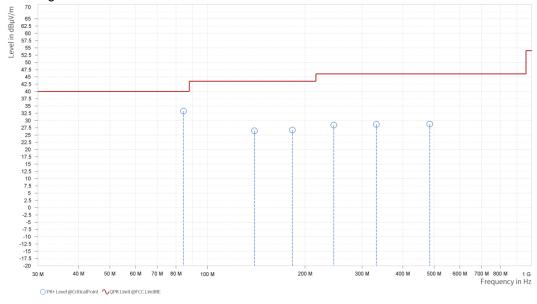


CHANNEL	LTE_B13_LINK+BT2.0_ GFSK_TX_CH78	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		,

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+: QPK Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	84.320	33.23	40.00	6.77	-12.67	V	223.1	2.00
1	139.502	26.47	43.50	17.03	-12.45	V	188.4	2.00
1	182.667	26.73	43.50	16.77	-10.22	V	206.3	2.00
1	245.232	28.43	46.00	17.57	-7.16	V	2.4	2.00
1	331.939	28.68	46.00	17.32	-4.40	V	171.7	1.00
1	484.499	28.76	46.00	17.24	-3.68	V	171.7	1.00

- 1. Emission level (dBuV/m) = Read level (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value =Limit value Emission level.





#### **ABOVE 1GHz WORST-CASE DATA:**

**Note:** For higher frequency, the emission is too low to be detected.

CHANNEL	LTE_B13_LINK+BT2.0_GF SK_TX_CH78	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		, ,

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]		AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	1,564.500	60.89	74.00	13.11	52.08	54.00	1.92	-6.70	Н	1	2.00
1	2,346.150	46.37	74.00	27.63	34.73	54.00	19.27	0.86	Н	359	2.00
3	4,960.000	51.17	74.00	22.83	39.35	54.00	14.65	4.83	Н	359	2.00
3	7,440.000	55.12	74.00	18.88	44.96	54.00	9.04	10.81	Н	1	2.00

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]		PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	1,564.500	50.72	74.00	23.28	42.30	54.00	11.70	-6.70	V	359.1	1.00
1	2,346.150	46.67	74.00	27.33	34.58	54.00	19.42	0.86	V	1	1.00
3	4,960.000	49.77	74.00	24.23	39.43	54.00	14.57	4.83	V	359	2.00
3	7,440.000	55.88	74.00	18.12	44.78	54.00	9.22	10.81	V	359	2.00

#### **REMARKS:**

 Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Limit value - Emission level.

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