

RADIO TEST REPORT FCC ID: 2AU4M-HR70

Product:	Heart Rate
Trade Mark:	iGPSPORT
Model No.:	HR70
Family Model:	HR70S, HR70P, HR70C, HR70 PLUS, HR70 PRO
Report No.:	S22122300809002
Issue Date:	Feb 02,2023

Prepared for

Wuhan Qiwu Technology Co., Ltd. 3 / F, Creative workshop, No.04, District D, Creative world, No.16 Yezhihu West Road, Hongshan District, Wuhan City, Hubei Province, China.

Prepared by

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1 IEST RESULT CERTIFI	CATION					
Applicant's name:	Wuhan Qi	iwu Technology Co., Ltd	l.			
Address:	3 / F, Crea	3 / F, Creative workshop, No.04, District D, Creative world,				
	No.16 Yez	No.16 Yezhihu West Road, Hongshan District, Wuhan City,				
	Hubei Pro	vince, China.				
Manufacturer's Name:	Wuhan Qi	iwu Technology Co., Ltd	l.			
Address:	,	3 / F, Creative workshop, No.04, District D, Creative world,				
		zhihu West Road, Hong	shan District, Wuhan (City,		
	Hubei Pro	vince, China.				
Product description						
Product name:	Heart Rate	e				
Trade Mark:	iGPSPOR	т				
Model and/or type reference:	HR70					
Family Model:	HR70S, H	IR70P, HR70C, HR70 P	LUS, HR70 PRO			
Measurement Procedure Used:						
	APPLIC	CABLE STANDARD	S			
APPLICABLE STANDAR	RD/ TEST	PROCEDURE	TEST RES	SULT		
FCC 47 CFR P	art J					
FCC 47 CFR Pa	rt 15, Subp	15, Subpart C				
KDB 174176 D01 Line Conducted FAQ v01r01			Complie	ed		
ANSI C63						
KDB 558074 D01 15.247	7 Meas Guid	dance v05r02				
This device described above has be results show that the equipment of applicable only to the tested samp This report shall not be reproduce Technology Co., Ltd., this docume Ltd., personnel only, and shall be re The test results of this report relate	under test (le identified ed except in nt may be a noted in the	(EUT) is in compliance in the report. a full, without the writter altered or revised by Sho revision of the docume	with the FCC require approval of Shenzhe enzhen NTEK Testing nt.	ements. And it is en NTEK Testing		
Date of Test	:	~ 2022, Dec 23	Feb 02 ,2023			
Testing Enginee	r :	hrang	. Hu			
(Ma			Hu)			
Authorized Sign	atory :	At) IN			
		(Alex	: Li)			



2 SUMMARY OF TEST RESULTS

FCC Part15 (15.247), Subpart C							
Standard Section Test Item Verdict Remark							
15.207	Conducted Emission	PASS					
15.247 (a)(2)	6dB Bandwidth	PASS					
15.247 (b) Peak Output Power PASS							
15.209 (a) 15.205 (a)	Radiated Spurious Emission	PASS					
15.247 (e)	Power Spectral Density	PASS					
15.247 (d) Band Edge Emission PASS							
15.247 (d)	Spurious RF Conducted Emission	PASS					
15.203	Antenna Requirement	PASS					

Remark:

 "N/A" denotes test is not applicable in this Test Report.
 All test items were verified and recorded according to the standards and without any deviation during the test.



3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description	
CNAS-Lab. :	The Certificate Registration Number is L5516.
IC-Registration	The Certificate Registration Number is 9270A.
	CAB identifier:CN0074
FCC- Accredited	Test Firm Registration Number: 463705.
	Designation Number: CN1184
A2LA-Lab.	The Certificate Registration Number is 4298.01
	This laboratory is accredited in accordance with the recognized
	International Standard ISO/IEC 17025:2005 General requirements for
	the competence of testing and calibration laboratories.
	This accreditation demonstrates technical competence for a defined
	scope and the operation of a laboratory quality management system
	(refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
Name of Firm :	Shenzhen NTEK Testing Technology Co., Ltd.
Site Location :	1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang
	Street, Bao'an District, Shenzhen 518126 P.R. China.

3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y\pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

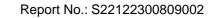
No.	Item	Uncertainty
1	Conducted Emission Test	±2.80dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(30MHz~1GHz)	±2.64dB
5	All emissions, radiated(1GHz~6GHz)	±2.40dB
6	All emissions, radiated(>6GHz)	±2.52dB
7	Temperature	±0.5°C
8	Humidity	±2%



4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification				
Equipment	Heart Rate			
Trade Mark	igpsport			
FCC ID	2AU4M-HR70			
Model No.	HR70			
Family Model	HR70S, HR70P, HR70C, HR70 PLUS, HR70 PRO			
Model Difference	All models are the same circuit and RF module, except the model name.			
Operating Frequency	2457MHz			
Modulation	GFSK			
Number of Channels	1 Channels			
Antenna Type	PCB Antenna			
Antenna Gain	-0.32 dBi			
Adapter	N/A			
Battery	DC 3.7V ,100mAh, 0.37Wh			
Power Supply	DC 3.7V from battery or DC 5V from magnetic charging port			
Hardware Version	N/A			
Software Version	N/A			

Note: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.





Revision History

Report No.	Version	Description	Issued Date
S22122300809002	Rev.01	Initial issue of report	Feb 02, 2023



5 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (1Mbps for GFSK modulation) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement -X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

Carrier Frequency and Channel list:

Channel	Frequency(MHz)
0	2457

The following summary tab is showing all test modes to demonstrate in compliance with the standard.

Test Cases				
Test Item	Data Rate/ Modulation			
AC Conducted Emission	Mode 1: normal link mode			
Radiated Test	Mode 1: normal link mode			
Cases	Mode 2: Ch00_2457MHz_1Mbps			
Conducted Test Cases	Mode 2: Ch00_2457MHz_1Mbps			

Note:

1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.

- 2. AC power line Conducted Emission was tested under maximum output power.
- 3. For radiated test cases, the worst mode data rate 1Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.
- 4. EUT built-in battery-powered, the battery is fully-charged.



6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

AE-1 EUT For Radiated Test Cases EUT For Conducted Test Cases Measurement C-2 EUT Note: The temporary antenna connector is soldered on the PCB board in order to perform conduct tests and this temporary antenna connector is listed in the equipment list.	AC PLUG				
For Radiated Test Cases For Conducted Test Cases For Conducted Test Cases C-2 EUT Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted	A	.E-1	¹ EUT		
EUT For Conducted Test Cases Measurement C-2 Instrument EUT Note:The temporary antenna connector is soldered on the PCB board in order to perform conducted	A	dapter			
EUT For Conducted Test Cases Measurement C-2 LUT Note:The temporary antenna connector is soldered on the PCB board in order to perform conducted					
EUT For Conducted Test Cases Measurement C-2 Instrument EUT Note:The temporary antenna connector is soldered on the PCB board in order to perform conducted					
For Conducted Test Cases Measurement C-2 EUT Instrument EUT Note:The temporary antenna connector is soldered on the PCB board in order to perform conducted	or Radiated Test Cases	3			
For Conducted Test Cases Measurement C-2 EUT Instrument EUT Note:The temporary antenna connector is soldered on the PCB board in order to perform conducted					
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Note:The temporary antenna connector is soldered on the PCB board in order to perform conducted					
Note:The temporary antenna connector is soldered on the PCB board in order to perform conducted	Measurement				
Note:The temporary antenna connector is soldered on the PCB board in order to perform conducte ests and this temporary antenna connector is listed in the equipment list.	Instrument				
Note:The temporary antenna connector is soldered on the PCB board in order to perform conductor ests and this temporary antenna connector is listed in the equipment list.					
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	oto:Tho tomporary ar	v antenna connector is	or is listed in the	equipment list.	
	lote:The temporary ar ests and this temporar	y antenna connect			
	lote:The temporary ar ests and this temporar	y antenna connect			
	lote:The temporary ar	y antenna connect			



6.2 SUPPORT EQUIPMENT

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

Item	Equipment	Model/Type No.	Series No.	Note
AE-1	Adapter	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	USB Cable	YES	NO	0.4m
C-2	RF Cable	YES	NO	0.1m

Notes:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in [Length] column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2022.04.01	2023.03.31	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2022.04.01	2023.03.31	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2022.06.16	2023.06.15	1 year
4	Test Receiver	R&S	ESPI7	101318	2022.04.06	2023.04.05	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2022.03.30	2023.03.29	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2022.03.31	2023.03.30	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2022.11.07	2023.11.06	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2022.06.17	2023.06.16	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2022.11.04	2023.11.03	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2022.06.16	2023.06.15	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2022.06.17	2025.06.16	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2022.06.17	2025.06.16	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
15	Filter	TRILTHIC	2400MHz	29	2020.04.07	2023.04.06	3 year
16	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list



AC Co	AC Conduction Test equipment						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2022.04.06	2023.04.05	1 year
2	LISN	R&S	ENV216	101313	2022.04.06	2023.04.05	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2022.04.06	2023.04.05	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2020.05.11	2023.05.10	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Aux Equipment & Test Cable which is scheduled for calibration every 2 or 3 years.



7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a)

7.1.2 Conformance Limit

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

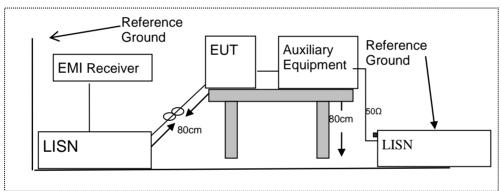
Note: 1. *Decreases with the logarithm of the frequency

- 2. The lower limit shall apply at the transition frequencies
 - 3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.1.4 Test Configuration



7.1.5 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- 3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 4. 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 40cm long.
- 5. 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.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item -EUT Test Photos.



7.1.6 Test Results

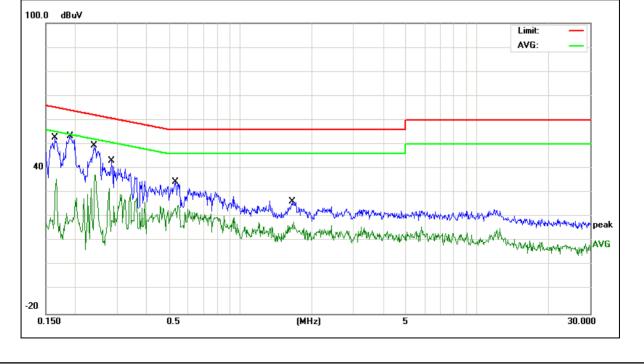
EUT:	Heart Rate	Model Name :	HR70
Temperature:	1 20 °C	Relative Humidity:	50%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1632	43.09	9.61	52.70	65.29	-12.59	QP
0.1632	26.04	9.61	35.65	55.29	-19.64	AVG
0.1900	43.77	9.61	53.38	64.03	-10.65	QP
0.1900	18.18	9.61	27.79	54.03	-26.24	AVG
0.2403	39.77	9.63	49.40	62.08	-12.68	QP
0.2403	27.84	9.63	37.47	52.08	-14.61	AVG
0.2858	33.37	9.64	43.01	60.64	-17.63	QP
0.2858	22.14	9.64	31.78	50.64	-18.86	AVG
0.5299	24.75	9.66	34.41	56.00	-21.59	QP
0.5299	14.47	9.66	24.13	46.00	-21.87	AVG
1.6578	16.83	9.67	26.50	56.00	-29.50	QP
1.6578	8.24	9.67	17.91	46.00	-28.09	AVG

Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.



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EUT:	Heart Rate	Model Name :	HR70
Temperature:	20 ℃	Relative Humidity:	50%
Pressure:	1010hPa	Phase :	Ν
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

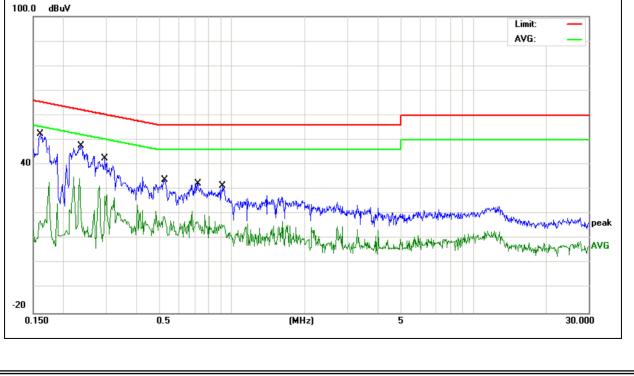
Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Bomork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1607	42.71	9.61	52.32	65.42	-13.10	QP
0.1607	7.78	9.61	17.39	55.42	-38.03	AVG
0.2363	38.17	9.63	47.80	62.22	-14.42	QP
0.2363	24.89	9.63	34.52	52.22	-17.70	AVG
0.2977	33.06	9.64	42.70	60.30	-17.60	QP
0.2977	18.30	9.64	27.94	50.30	-22.36	AVG
0.5260	24.19	9.66	33.85	56.00	-22.15	QP
0.5260	9.38	9.66	19.04	46.00	-26.96	AVG
0.7217	22.73	9.67	32.40	56.00	-23.60	QP
0.7217	7.36	9.67	17.03	46.00	-28.97	AVG
0.9180	21.79	9.68	31.47	56.00	-24.53	QP
0.9180	5.92	9.68	15.60	46.00	-30.40	AVG

Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.





Version.1.3



7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and ANSI C63.10-2013

7.2.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). According to FCC Part15.205, Restricted bands

MHz	MHz	MHz	GHz	
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15	
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46	
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75	
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5	
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2	
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5	
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7	
6.26775-6.26825	123-138	2200-2300	14.47-14.5	
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2	
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4	
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12	
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0	
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8	
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5	
12.57675-12.57725	322-335.4	3600-4400	(2)	
13.36-13.41				
12.29-12.293 12.51975-12.52025 12.57675-12.57725	167.72-173.2 240-285	3332-3339 3345.8-3358	31.2-31.8 36.43-36.5	

20dBc in any 100 kHz bandwidth outside the operating frequency band. 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.

Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/m) (at 3M)		
	PEAK	AVERAGE	
Above 1000	74	54	

Remark :1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. For Frequency 9kHz~30MHz: Distance extrapolation factor =40log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz: Distance extrapolation factor =20log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

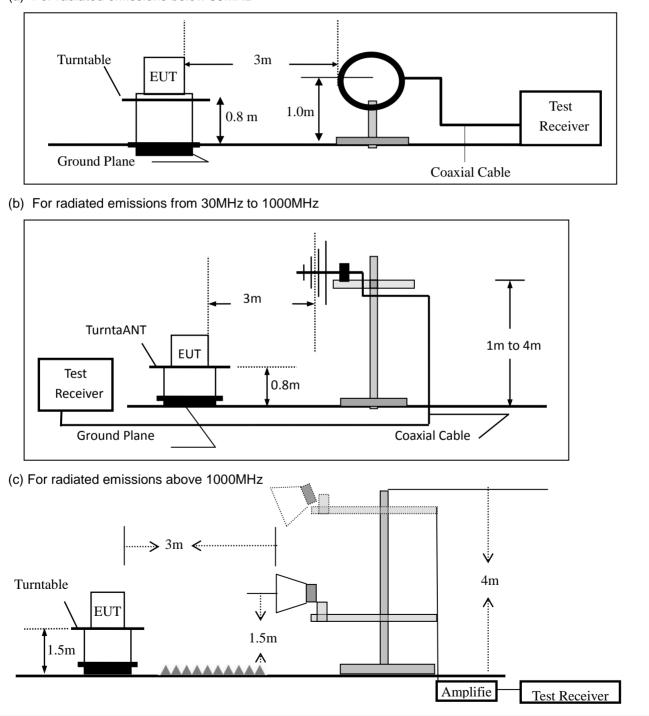


7.2.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

(a) For radiated emissions below 30MHz



Version.1.3



7.2.5 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

Spectrum Parameter	Setting			
Attenuation	Auto			
Start Frequency	1000 MHz			
Stop Frequency	10th carrier harmonic			
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1MHz for Average			

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; 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 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.
- e. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- f. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- g. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported



During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Ab aug 4000	Peak	1 MHz	1 MHz
Above 1000	Average	1 MHz	1 MHz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz])., the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

7.2.6 Test Results

Spurious	Emission	below 30MHz	(9KHz to	30MHz)
• p •• •.•			(0	•••···,

EUT:	Heart Rate	Model No.:	HR70
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

Freq.	Ant.Pol.	Emission L	.evel(dBuV/m)	Limit 3	m(dBuV/m)	Ove	r(dB)
(MHz)	H/V	PK	AV	PK	AV	PK	AV

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.



Spurious Emission below 1GHz (30MHz to 1GHz) All the modulation modes have been tested, and the worst result was report as below:

EUT:	Heart Rate	Model Name :	HR70				
Temperature:	20 ℃	Relative Humidity:	48%				
Pressure:	1010hPa	Test Mode:	Mode 1				
Test Voltage :	DC 3.7V						

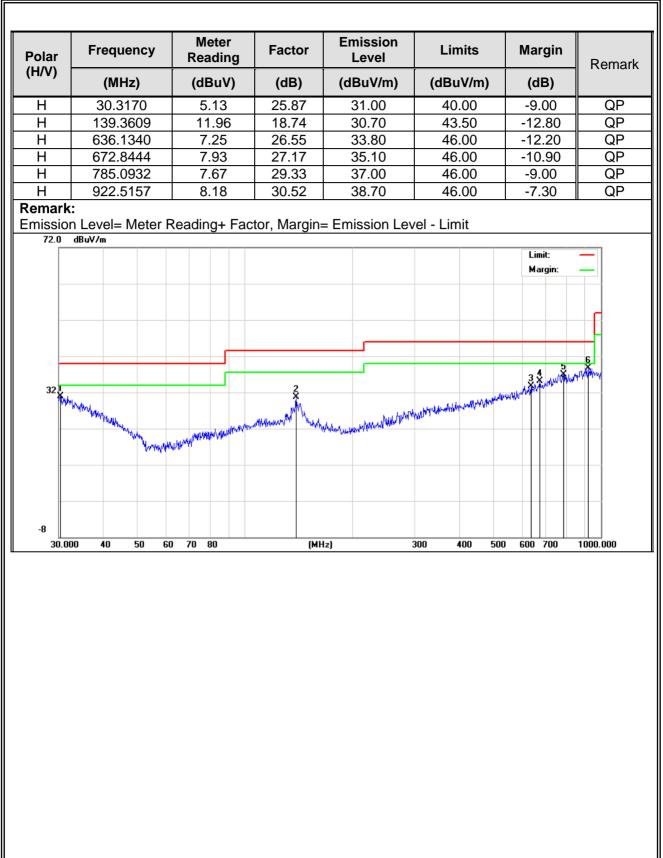
Polar (H/V) V V V V V V	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	30.4237	5.13	25.87	31.00	40.00	-9.00	QP
V	132.2204	11.62	18.48	30.10	43.50	-13.40	QP
V	269.4284	8.80	19.40	28.20	46.00	-17.80	QP
V	747.4825	6.76	28.74	35.50	46.00	-10.50	QP
V	848.0561	6.60	29.85	36.45	46.00	-9.55	QP
V	948.7608	7.43	30.87	38.30	46.00	-7.70	QP

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit









Spurious	s Emis	ssior	n Above	1GHz (1GI	Hz to 25G	Hz)				
EUT:	EUT: Heart Rate				Model No.:		HR70			
Temperature	e: 1	20 °C	2			Relative Hu	umidity:	48%		
Test Mode:		Mod	e2			Test By:		Mary Hu		
Frequency	Rea Lev		Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark	Comment
(MHz)	(dBµ	ıV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m) (dB)		
				Mid Cha	innel (2457	MHz)(GFSK)Above 1	G		
4914.48	64.8	84	5.21	35.66	44.20	61.51	74.00	-12.49	Pk	Vertical
4914.48	43.3	37	5.21	35.66	44.20	40.04	54.00	-13.96	AV	Vertical
7371.67	64.6	61	7.10	36.50	44.43	63.78	74.00	-10.22	Pk	Vertical
7371.67	43.2	21	7.10	36.50	44.43	42.38	54.00	-11.62	AV	Vertical
4914.48	60.8	89	5.21	35.66	44.20	57.56	74.00	-16.44	Pk	Horizontal
4914.48	43.2	25	5.21	35.66	44.20	39.92	54.00	-14.08	AV	Horizontal
7371.67	63.7	78	7.10	36.50	44.43	62.95	74.00	-11.05	Pk	Horizontal
7371.67	43.4	44	7.10	36.50	44.43	42.61	54.00	-11.39	AV	Horizontal

Note:

(1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor (2)All other emissions more than 20dB below the limit.



Sp	ourious Emission	in Restricted Band	2310-2390MHz and 24	83.5-2500MHz
----	------------------	--------------------	---------------------	--------------

EUT:	Heart Rate	Model No.:	HR70
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/ Mode4	Test By:	Mary Hu

Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment		
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре			
	2Mbps(GFSK)										
2310.00	64.42	2.97	27.80	43.80	51.39	74	-22.61	Pk	Horizontal		
2310.00	39.52	2.97	27.80	43.80	26.49	54	-27.51	AV	Horizontal		
2310.00	63.16	2.97	27.80	43.80	50.13	74	-23.87	Pk	Vertical		
2310.00	43.47	2.97	27.80	43.80	30.44	54	-23.56	AV	Vertical		
2390.00	62.98	3.14	27.21	43.80	49.53	74	-24.47	Pk	Vertical		
2390.00	43.17	3.14	27.21	43.80	29.72	54	-24.28	AV	Vertical		
2390.00	60.05	3.14	27.21	43.80	46.60	74	-27.40	Pk	Horizontal		
2390.00	43.43	3.14	27.21	43.80	29.98	54	-24.02	AV	Horizontal		
2483.50	62.30	3.58	27.70	44.00	49.58	74	-24.42	Pk	Vertical		
2483.50	43.60	3.58	27.70	44.00	30.88	54	-23.12	AV	Vertical		
2483.50	60.33	3.58	27.70	44.00	47.61	74	-26.39	Pk	Horizontal		
2483.50	43.25	3.58	27.70	44.00	30.53	54	-23.47	AV	Horizontal		

Note: (1) All other emissions more than 20dB below the limit.



UT:	Hear	t Rate			Model No.: HR70					
emperature:	20 ℃				Relative Hu	midity:	48%	48%		
est Mode:	Mode	e2/ Mode	e4		Test By:		Mary H	u		
				_						
Frequency	Reading Level	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment	
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре		
3260	61.72	4.04	29.57	44.70	50.63	74	-23.37	Pk	Vertical	
3260	43.30	4.04	29.57	44.70	32.21	54	-21.79	AV	Vertical	
3260	64.02	4.04	29.57	44.70	52.93	74	-21.07	Pk	Horizontal	
3260	43.40	4.04	29.57	44.70	32.31	54	-21.69	AV	Horizontal	
3332	60.42	4.26	29.87	44.40	50.15	74	-23.85	Pk	Vertical	
3332	43.42	4.26	29.87	44.40	33.15	54	-20.85	AV	Vertical	
3332	64.68	4.26	29.87	44.40	54.41	74	-19.59	Pk	Horizontal	
3332	43.21	4.26	29.87	44.40	32.94	54	-21.06	AV	Horizontal	
17797	47.43	10.99	43.95	43.50	58.87	74	-15.13	Pk	Vertical	
17797	34.07	10.99	43.95	43.50	45.51	54	-8.49	AV	Vertical	
17788	49.26	11.81	43.69	44.60	60.16	74	-13.84	Pk	Horizontal	
17788	34.57	11.81	43.69	44.60	45.47	54	-8.53	AV	Horizontal	

Note: (1) All other emissions more than 20dB below the limit.



7.3 6DB BANDWIDTH

7.3.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.2.

7.3.2 Conformance Limit

The minimum permissible 6dB bandwidth is 500 kHz.

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows Subclause 11.8 of ANSI C63.10

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

a) Set RBW = 100 kHz.

- b) Set the video bandwidth (VBW) \ge 3*RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.

g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.3.6 Test Results

EUT:	Heart Rate	Model No.:	HR70
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2	Test By:	Mary Hu



7.4 DUTY CYCLE

7.4.1 Applicable Standard

According to KDB 558074 D01 15.247 Meas Guidance v05r02s Section 6.

7.4.2 Conformance Limit

No limit requirement.

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW \geq OBW if possible; otherwise, set RBW to the largest available value. Set VBW \geq RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T \leq 16.7 microseconds.)

The transmitter output is connected to the Spectrum Analyzer. We tested accroding to the zero-span measurement method, 6.0)b) in KDB 558074

The largest available value of RBW is 8 MHz and VBW is 50 MHz. The zero-span method of measuring duty cycle shall not be used if $T \le 6.25$ microseconds. (50/6.25 = 8)

The zero-span method was used because all measured T data are > 6.25 microseconds and both RBW and VBW are > 50/T.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Span = Zero Span RBW = 8MHz(the largest available value) VBW = 8MHz (\geq RBW) Number of points in Sweep >100 Detector function = peak Trace = Clear write Measure T_{total} and T_{on} Calculate Duty Cycle = T_{on} / T_{total}



7.4.6 Test Results

EUT:	Heart Rate	Model No.:	HR70
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	N/A	Test By:	N/A

Note: Not Applicable



7.5 **PEAK OUTPUT POWER**

7.5.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.3.1.

7.5.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm). If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The testing follows Subclause 11.9.1.1 of ANSI C63.10 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Set the RBW \geq DTS bandwidth. Set VBW =3*RBW. Set the span \geq 3*RBW Set Sweep time = auto couple. Set Detector = peak. Set Trace mode = max hold. Allow trace to fully stabilize. Use peak marker function to determine the peak amplitude level.

7.5.6 Test Results

EUT:	Heart Rate	Model No.:	HR70
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2	Test By:	Mary Hu



7.6 **POWER SPECTRAL DENSITY**

7.6.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.4.

7.6.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows Measurement Procedure Subclause 11.10.2 of ANSI C63.10 This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

a) Set analyzer center frequency to DTS channel center frequency.

b) Set the span to 1.5*DTS bandwidth.

c) Set the RBW to: $3 \text{ kHz} \le \text{RBW} \le 100 \text{ kHz}$.

- d) Set the VBW \geq 3 RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.

i) Use the peak marker function to determine the maximum amplitude level within the RBW.

j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



7.6.6 Test Results

EUT:	Heart Rate	Model No.:	HR70
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2	Test By:	Mary Hu



7.7 CONDUCTED BAND EDGE MEASUREMENT

7.7.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

7.7.2 Conformance 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 conducted power limits. If the transmitter complies with the conducted 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.

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows FCC KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.

Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

Repeat above procedures until all measured frequencies were complete.

7.7.6 Test Results

EUT:	Heart Rate	Model No.:	HR70
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2	Test By:	Mary Hu



7.8 SPURIOUS RF CONDUCTED EMISSIONS

7.8.1 Conformance Limit

1. Below -20dB of the highest emission level in operating band.

2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

7.8.2 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.3 Test Setup

Please refer to Section 6.1 of this test report.

7.8.4 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength , and measure frequency range from 30MHz to 26.5GHz.

7.8.5 Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.



7.9 ANTENNA APPLICATION

7.9.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

7.9.2 Result

The EUT antenna is permanent attached PCB Antenna (Gain: -0.32 dBi). It comply with the standard requirement.

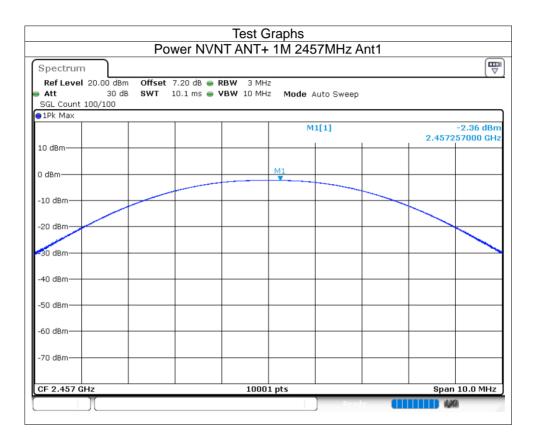


8 TEST RESULTS

8.1 **1M**

8.1.1 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	ANT+ 1M	2457	Ant1	-2.36	30	Pass





8.1.2 -6dB Bandwidth

ondition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwid (MHz)	Bandwidth (MHz)	Verdi					
NVNT	ANT+ 1M	2457	Ant1	0.767	0.5	Pas					
F						7					
_				Graphs							
		-6dB Bandv	vidth NVNT	ANT+ 1M 2457M	Hz Ant1						
	Spectrum 🕎										
	Ref Level 20.00	dBm Offset 7.20 d	18 👄 RBW 100 k	Hz	(*)						
			us 👄 VBW 300 k	Hz Mode Auto FFT							
	SGL Count 100/10)0									
	OIPK Max			M1[1]	-3.88 dBm						
	10 dBm				2.457055190 GHz						
				M2[1]	-9.86 dBm 2.456634000 GHz						
	0 dBm			M1							
	-10 dBm	M2	<u> </u>								
	00 db										
	-20 dBm										
	-30 dBm										
	-40 dBm										
	-50 dBm										
	-60 dBm										
	-70 dBm										
	-/0 0011										
	CF 2.457 GHz		100	01 pts	Span 2.0 MHz						
	Marker			•							
	Type Ref Trc	X-value	Y-value	Function	Function Result						
	M1 1 M2 1										
	M3 1										
				Read							



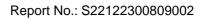
8.1.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducte PSD (dBn	E actor	Total PSD (dBm)	Limit (dBm)	Verdic
NVNT	ANT+1M	2457	Ant1	-15.39	0	-15.39	8	Pass
	Spectrum Ref Level 20.00 Att SGL Count 1000/: 1Pk Max 10 dBm 0 dBm -10 dBm	PSD 0 dBm Offset 7.20 30 dB SWT 632.2 1000	Test NVNT ANT- 2 μs • VBW 10 1 2 μs • VBW 10 1	Graphs ⊦ 1M 2457N	Hz Ant1	-1; 2.4570	(₩) 5.39 dBm 8965 GHz	Pass
	-40 dBm -50 dBm -60 dBm -70 dBm							
	CF 2.457 GHz		10	01 pts		Span 1.1	505 MHz	



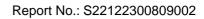
8.1.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	ANT+ 1M	2457	Ant1	-39.49	-20	Pass
NVNT	ANT+ 1M	2457	Ant1	-40.23	-20	Pass





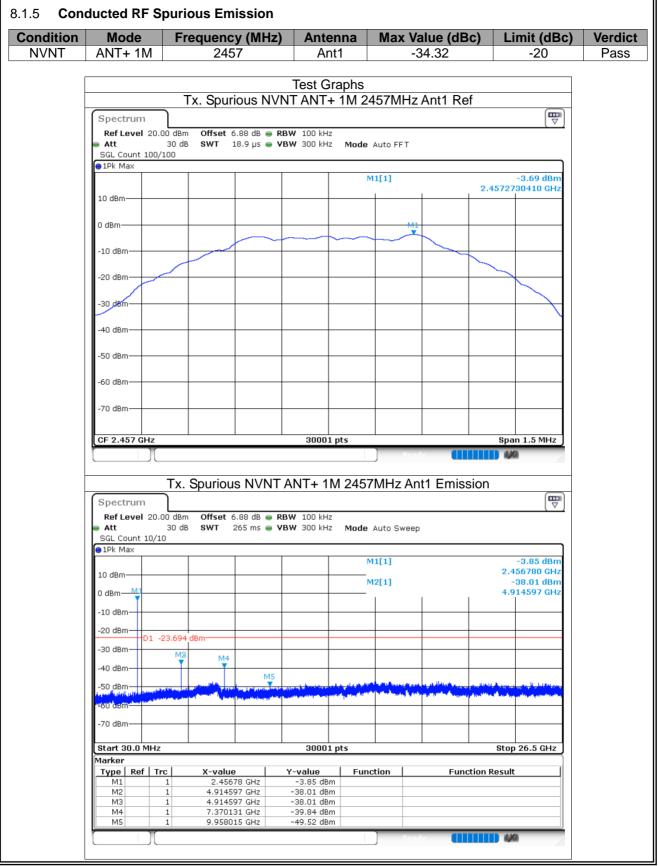
Spectrum		Ŭ		ANT+ 1					
Ref Level : Att	30.00 dBm 40 dB			RBW 100 kHz /BW 300 kHz		uto FFT			(*)
SGL Count : 1Pk Max	100/100								
					м	1[1]			-3.79 dBm
20 dBm								2.457	27170 GHz
10 dBm									
D dBm									
-10 dBm									
-20 dBm					-+				
-30 dBm				\downarrow	$\left \right $	m			
-40 dBm			\sim	• 			Λ	0.0000	<u> </u>
-50 dBm	<u>~~~</u> ~~~		· •					NV	~~~~
-60 dBm									
							1	1	
CF 2.457 G][Edge N\	/NT AN	1001 1001 NT+ 1M 2) Read z Ant1 E	mission	•	In 8.0 MHz
Spectrum	Band			NT+ 1M 2	2457MH] Read z Ant1 E	mission	•	(The second seco
Spectrum Ref Level : Att	Band 30.00 dBm 40 dB	Offset 6.	.88 dB 😑		2457MH		mission	•	
Spectrum Ref Level : Att SGL Count	Band 30.00 dBm 40 dB	Offset 6.	.88 dB 😑	NT+ 1M 2 RBW 100 KH	2457MH		mission	•	
Spectrum Ref Level : Att SGL Count 1Pk Max	Band 30.00 dBm 40 dB	Offset 6.	.88 dB 😑	NT+ 1M 2 RBW 100 KH	2457MH. ^z Mode /		mission	LOW	-3.84 dBm
Spectrum Ref Level : SGL Count SGL Count) IPk Max 20 dBm	Band 30.00 dBm 40 dB	Offset 6.	.88 dB 😑	NT+ 1M 2 RBW 100 KH	2457MH. ^z Mode /	Auto FFT	mission	LOW 2.456	
Spectrum Ref Level 3 Att SGL Count 1Pk Max 20 dBm 10 dBm	Band 30.00 dBm 40 dB	Offset 6.	.88 dB 😑	NT+ 1M 2 RBW 100 KH	2457MH. ^z Mode /	Auto FFT 1[1]	mission	LOW 2.456	-3.84 dBm 755000 GHz -46.71 dBm
Spectrum Ref Level 3 Att SGL Count 1Pk Max 20 dBm 10 dBm	Band 30.00 dBm 40 dB	Offset 6.	.88 dB 😑	NT+ 1M 2 RBW 100 KH	2457MH. ^z Mode /	Auto FFT 1[1]	mission	LOW 2.456	-3.84 dBm 75000 GHz -46.71 dBm 000000 GHz
Spectrum Ref Level 3 Att SGL Count 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm	Band 30.00 dBm 40 dB	Offset 6. SWT 22	.88 dB 😑	NT+ 1M 2 RBW 100 KH	2457MH. ^z Mode /	Auto FFT 1[1]		LOW 2.456	-3.84 dBm 75000 GHz -46.71 dBm 000000 GHz
Spectrum Ref Level 3 SGL Count 10 dBm 10 dBm 10 dBm -10 dBm -20 dBm	Band 30.00 dBm 40 dB 100/100	Offset 6. SWT 22	.88 dB ● 7.5 μs ●	NT+ 1M 2 RBW 100 kH VBW 300 kH	2457MH	Auto FFT 1[1] 2[1]		2.456 2.400	-3.84 dBm 75000 GHz -46.71 dBm 000000 GHz
Spectrum Ref Level : SGL Count 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Band 30.00 dBm 40 dB 100/100	Offset 6. SWT 22	.88 dB ● 7.5 μs ●	NT+ 1M 2 RBW 100 kH VBW 300 kH	2457MH	Auto FFT 1[1] 2[1]		2.456 2.400	-3.84 dBm 75000 GHz -46.71 dBm 000000 GHz
Spectrum Ref Level : SGL Count PIPk Max 20 dBm 10 dBm 0 dBm -20 dBm -20 dBm -30 dBm -30 dBm -60 dBm	Band 30.00 dBm 40 dB 100/100	Offset 6. SWT 22	.88 dB ● 7.5 μs ●	NT+ 1M 2 RBW 100 kH VBW 300 kH	2457MH	Auto FFT 1[1] 2[1]		2.456 2.400	-3.84 dBm 75000 GHz -46.71 dBm 000000 GHz
-30 dBm -40 dBm -50 dBm -60 dBm -60 dBm Start 2.361	Band 30.00 dBm 40 dB 100/100	Offset 6. SWT 22	.88 dB ● 7.5 μs ●	NT+ 1M 2 RBW 100 kH VBW 300 kH	2457MH. 2 Mode / M M	Auto FFT 1[1] 2[1]		2.450 2.400	-3.84 dBm 75000 GHz -46.71 dBm 000000 GHz
Spectrum Ref Level : Att SGL Count IPk Max 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -60 dBm -60 dBm -60 dBm -60 dBm	Band 30.00 dBm 40 dB 100/100	Offset 6. SWT 22	.88 dB ● 7.5 µs ●	IT+ 1M 2 RBW 100 kH уви 300 kH	2457MH. 2 Mode / M M	Auto FFT 1[1] 2[1]	Lybe-televestica.vet	2.450 2.400	-3.84 dBm 75000 GHz -46.71 dBm 000000 GHz
Spectrum Ref Level 3 SGL Count SGL Count 10 dBm 10 dBm 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm -60 dBm -60 dBm Start 2.361 Marker Type Ref M1	Band 30.00 dBm 40 dB 100/100 D1 -23.789 M4 	Offset 6. SWT 22 dBm dBm X-value 2.4567	.88 dB ● 7.5 µs ● 	IT+ 1M 2 RBW 100 kH уви 300 kH	2457MH	Auto FFT 1[1] 2[1]	Lybe-televestica.vet	LOW 2.456 2.400	-3.84 dBm 75000 GHz -46.71 dBm 000000 GHz
Spectrum Ref Level 3 Att SGL Count 1 Pk Max 20 dBm 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -60 dBm -60 dBm -60 dBm -60 dBm -60 dBm -60 dBm -70 dBm -7	Band 30.00 dBm 40 dB 100/100 01 -23.789 M4 	Оffset 6. SWT 22 dBm dBm AAMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	.88 dB ● 7.5 μs ●	NT+ 1M 2 RBW 100 kH VBW 300 kH	2457MH	Auto FFT 1[1] 2[1]	Lybe-televestica.vet	LOW 2.456 2.400	-3.84 dBm 75000 GHz -46.71 dBm 000000 GHz





	Hz Ant1 Ref Hl	
● RBW 100 kHz		(*)
VBW 300 kHz Mode Aut	to FFT	
M1	[1]	-3.57 dBm
		2.45701600 GHz
$\gamma \gamma = \gamma$	γ	
	\rightarrow	
	mon	m
1001 pts		Span 8.0 MHz
- PBW 100 kHz		
VBW 300 kHz Mode Au	uto FFT	
M1		-3.77 dBm
	[1]	2.45725000 GHz
M1 	[1]	
	[1]	2.45725000 GHz -46.84 dBm
M2		2.45725000 GHz -46.84 dBm 2.48350000 GHz
M2		2.45725000 GHz -46.84 dBm
M2		2.45725000 GHz -46.84 dBm 2.48350000 GHz
M2 M2 M3 M3 M3		2.45725000 GHz -46.84 dBm 2.48350000 GHz
M2		2.45725000 GHz -46.84 dBm 2.48350000 GHz
M2 M2 M3 M3 M3		2.45725000 GHz -46.84 dBm 2.48350000 GHz
M3 М3 M3 Ма M3 Ма		2.45725000 GHz -46.84 dBm 2.48350000 GHz
M2 M2 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3		2.45725000 GHz -46.84 dBm 2.48350000 GHz
	M1 M1 M1 M1 M1 M1 M1 M1 M1 M1	MI[1] MI[1]



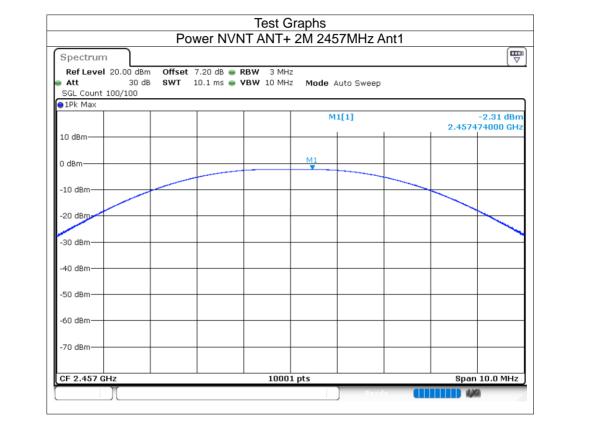




8.2 **2M**

8.2.1 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	ANT+ 2M	2457	Ant1	-2.31	0	-2.31	30	Pass





8.2.2 -6dB Bandwidth

ondition	M	lode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	AN	T+ 2M	2457	Ant1	1.326	0.5	Pass
				Test G			
			-6dB Bandwi	dth NVNT A	NT+ 2M 2457N		<u> </u>
[Spectru	im					J
	Att	el 20.00 d 30 nt 100/100		 RBW 100 kHz VBW 300 kHz 	Mode Auto FFT		
ſ	1Pk Max						
					M1[1]	-4.34 dBm	
	10 dBm—				M2[1]	2.457017200 GHz -10.34 dBm	
	0 dBm				L	2.456384000 GHz	
	10.10		M2		M3		
	-10 dBm—						
	-20 dBm—						
	-30 dBm—		A				
	-40 dBm-						
	-40 uBm—	\sim					
	-50 dBm—						
	-60 dBm—						
	70 40						
	-70 dBm—						
	CF 2.457	GHz		10001	pts	Span 4.0 MHz	
	/larker						
	Type R		X-value	Y-value	Function	Function Result	
	M1 M2	1	2.4570172 GHz 2.456384 GHz				
	M3	1	2.45771 GHz				
2					Dea		



Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdic
NVNT	ANT+2M	2457	Ant1	-18.87	0	-18.87	8	Pass
NVNT	Spectrum Ref Level 20.0 Att SGL Count 100/: 10 dBm 0 dBm -10 dBm	2457 PSD		-18.87	z Ant1		8 .87 dBm 3230 GHz	Pass



8.2.4 Band Edge

NVNT ANT+2M 2457 Ant1 -48.74 -20 NVNT ANT+ 2M 2457 Ant1 -48.74 -20	Limit (dBc)	Max Value (dBc) Lir	Antenna	Frequency (MHz)	Mode	Condition
	-20	-48.74	Ant1	2457	ANT+ 2M	NVNT
ConditionModeFrequency (MHz)AntennaMax Value (dBc)Limit (dBc)NVNTANT+ 2M2457Ant1-48.74-20NVNTANT+ 2M2457Ant1-49.72-20	-20	-49.72	Ant1	2457	ANT+ 2M	NVNT

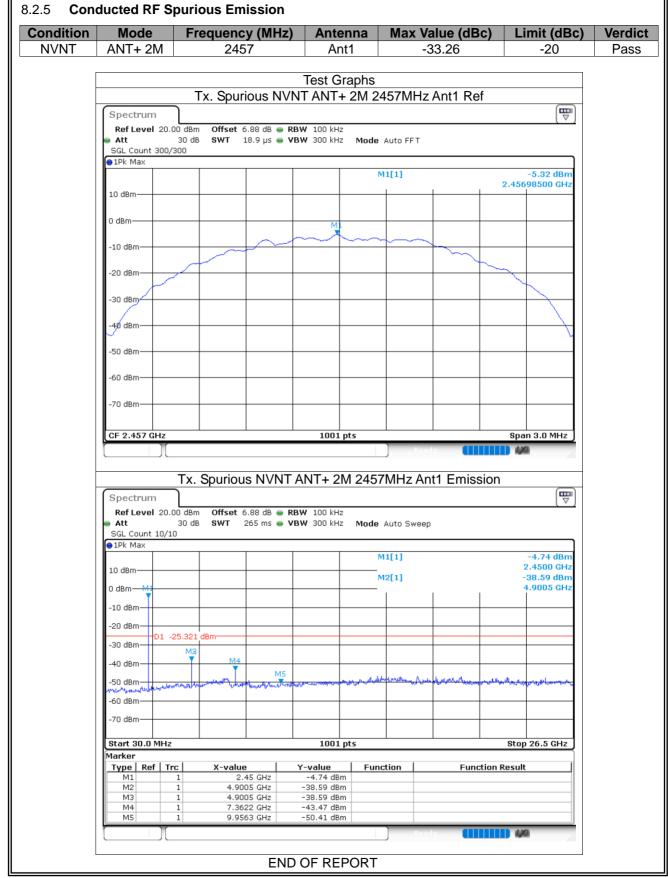




Spectrum					1 2457MHz				
Ref Level 20 Att SGL Count 20	30 dB			BW 100 kHz BW 300 kHz	Mode Auto F	FT			
●1Pk Max	50,200								
					M1[1]			9.45	-4.79 dBm 700000 GHz
10 dBm								2.40	
0 dBm				M1					
-10 dBm				~~~	\sim				
			~		X.				
-20 dBm									
-30 dBm						\mathbf{Y}			
-30 ubill		0	1				~~~~		
-40 dBm		724	4			\rightarrow	r hy		
						Y	\sim		
-50 dBm	~~~~							m	
-60 dBm	× • •								www.ew
-70 dBm									
CF 2.457 GH				1001	nts			Spa	an 8.0 MHz
Spectrum	[Edge N\	/NT AN		457MHz Ai	Ready nt1 Er	mission	LOW	
Spectrum Ref Level 20 Att	Band D.00 dBm 30 dB	Offset 6.	.88 dB 👄 F	IT+ 2M 24			mission	LOW	
Spectrum Ref Level 20 Att SGL Count 10	Band D.00 dBm 30 dB	Offset 6.	.88 dB 👄 F	IT+ 2M 24	457MHz Ai		mission	LOW	
Spectrum Ref Level 20 Att SGL Count 10	Band D.00 dBm 30 dB	Offset 6.	.88 dB 👄 F	IT+ 2M 24	457MHz Ai		mission	LOW	
Spectrum Ref Level 20 Att	Band D.00 dBm 30 dB	Offset 6.	.88 dB 👄 F	IT+ 2M 24	457MHz Ai Mode Auto		mission	2.45	-4.43 dBm 705000 GHz
Spectrum Ref Level 20 Att SGL Count 10 1Pk Max	Band D.00 dBm 30 dB	Offset 6.	.88 dB 👄 F	IT+ 2M 24	457MHz An Mode Auto		mission	2.45	-4.43 dBm
Spectrum Ref Level 20 Att SGL Count 10 1Pk Max 10 dBm	Band D.00 dBm 30 dB	Offset 6.	.88 dB 👄 F	IT+ 2M 24	457MHz Ai Mode Auto		mission	2.45	-4.43 dBm 705000 GHz -56.81 dBm
Spectrum Ref Level 20 Att SGL Count 10 1Pk Max 10 dBm -10 dBm -10 dBm	Band D.00 dBm 30 dB	Offset 6.	.88 dB 👄 F	IT+ 2M 24	457MHz Ai Mode Auto		mission	2.45	-4.43 dBm 705000 GHz -56.81 dBm
Spectrum Ref Level 20 Att SGL Count 10 9 IPk Max 10 dBm -10 dBm -20 dBm	Band D.00 dBm 30 dB	Offset 6. SWT 22	.88 dB 👄 F	IT+ 2M 24	457MHz Ai Mode Auto		mission	2.45	-4.43 dBm 705000 GHz -56.81 dBm
Spectrum Ref Level 20 Att SGL Count 10 Pk Max 10 dBm -10 dBm -20 dBm	Band 0.00 dBm 30 dB 20/100	Offset 6. SWT 22	.88 dB 👄 F	IT+ 2M 24	457MHz Ai Mode Auto		mission	2.45	-4.43 dBm 705000 GHz -56.81 dBm
Spectrum Ref Level 20 Att SGL Count 10 9 IPk Max 10 dBm -10 dBm -20 dBm	Band 0.00 dBm 30 dB 20/100	Offset 6. SWT 22	.88 dB 👄 F	IT+ 2M 24	457MHz Ai Mode Auto		mission	2.45	-4.43 dBm 705000 GHz -56.81 dBm
Spectrum Ref Level 20 Att SGL Count 10 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm	Band 0.00 dBm 30 dB 00/100	dBm	88 dB ● F 7.5 µs ● N	IT+ 2M 24	457MHz Ai Mode Auto M1[1] M2[1]	FFT		2.45	-4.43 dBm 705000 GHz -56.81 dBm 00000M€Hz
Spectrum Ref Level 20 Att SGL Count 10 PIPk Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm	Band 0.00 dBm 30 dB 00/100	dBm	88 dB ● F 7.5 µs ● N	IT+ 2M 24	457MHz Ai Mode Auto	FFT		2.45	-4.43 dBm 705000 GHz -56.81 dBm 00000M€Hz
Spectrum Ref Level 20 Att SGL Count 10 PIPk Max 10 dBm -10 dBm -20 dBm -20 dBm -40 dBm -50 dBm -50 dBm	Band 0.00 dBm 30 dB 00/100	dBm	88 dB ● F 7.5 µs ● N	IT+ 2M 24	457MHz Ai Mode Auto M1[1] M2[1]	FFT		2.45	-4.43 dBm 705000 GHz -56.81 dBm 00000M€Hz
Spectrum Ref Level 20 Att 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm	Band 0.00 dBm 30 dB 00/100	dBm	88 dB ● F 7.5 µs ● N	IT+ 2M 24	457MHz Ai Mode Auto M1[1] M2[1]	FFT		2.45	-4.43 dBm 705000 GHz -56.81 dBm 00000M€Hz
Spectrum Ref Level 20 Att SGL Count 10 IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -70 dBm -70 dBm Start 2.361 (Count 10)	Band D.00 dBm 30 dB 00/100 1 -24.790	dBm	88 dB ● F 7.5 µs ● N	IT+ 2M 24	457MHz Ai Mode Auto M1[1] M2[1]	FFT		2.45 2.400 	-4.43 dBm 705000 GHz -56.81 dBm 00000M€Hz
Spectrum Ref Level 20 Att 10 dBm 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -70 dBm -70 dBm -70 dBm -70 dBm	Band 0.00 dBm 30 dB 30/100 1 -24.790 	dBm	88 dB ● F 7.5 µs ● \ 	IT+ 2M 24	457MHz Ai Mode Auto M1[1] M2[1]	FFT	ntratil	2.45 2.400 Միհերիսությունի Տtop	-4.43 dBm 705000 GHz -56.81 dBm 00000M GHz
Spectrum Ref Level 20 Att SGL Count 10 ID dBm 10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -60 dBm -70 dBm Start 2.361 0 Marker	Band 0.00 dBm 30 dB 00/100 1 -24.790 1 -24.790 3Hz Trc 1 1	Offset 6. SWT 22' dBm dBm M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	.88 dB • • • 7.5 µs • \ 	IT+ 2M 24	457MHz Ai	FFT	ntratil	2.45 2.400 	-4.43 dBm 705000 GHz -56.81 dBm 00000M GHz
Spectrum Ref Level 20 Att SGL Count 10 ID dBm 10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm -70 dBm Start 2.361 C Yarker Type	Band 0.00 dBm 30 dB 00/100 1 -24.790 	Offset 6. SWT 22 dBm dBm M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	88 dB ● ■ 7.5 µs ● \ 	IT+ 2M 24	457MHz Ai	FFT	ntratil	2.45 2.400 Միհերիսությունի Տtop	-4.43 dBm 705000 GHz -56.81 dBm 00000M GHz



Ref Level Att SGL Count	30	dB SWT 1		RBW 100 kHz VBW 300 kHz	Mode Auto FF	Г		
●1Pk Max			1		M1[1]			4.50 dBm
					M1[1]		2.457	-4.52 dBm 00800 GHz
10 dBm								
0 dBm				L.M.				
				I man				
-10 dBm					- h			
-20 dBm-			/	~				
						<u>,</u>		
-30 dBm								
-40 dBm		M	h/			Im		
			ľ			\neg		
-50 dBm	~~~	\mathcal{N}					hun	
-60 dBm-	~ `	r						a candradad
-								
-70 dBm								
							Sna	n 8.0 MHz
CF 2.457 G Spectrum Ref Level	Ban 20.00 dB	Bm Offset	6.88 dB 🖷	RBW 100 kHz	457MHz Ant			(
Spectrum Ref Level Att SGL Count	Ban 1 20.00 dE 30	3m Offset dB SWT 2	6.88 dB 🖷	NT+ 2M 24 RBW 100 kHz	157MHz Ant			
Spectrum Ref Level Att SGL Count	Ban 1 20.00 dE 30	3m Offset dB SWT 2	6.88 dB 🖷	NT+ 2M 24 RBW 100 kHz	457MHz Ant		HIGH	-5.05 dBm
Spectrum Ref Level Att SGL Count DPk Max	Ban 1 20.00 dE 30	3m Offset dB SWT 2	6.88 dB 🖷	NT+ 2M 24 RBW 100 kHz	457MHz Ant Mode Auto FF		HIGH 2.457	-5.05 dBm 05000 GHz
Spectrum Ref Level Att	Ban 1 20.00 dE 30	3m Offset dB SWT 2	6.88 dB 🖷	NT+ 2M 24 RBW 100 kHz	157MHz Ant Mode Auto FF		HIGH 2.457	-5.05 dBm
Spectrum Ref Level Att SGL Count IPk Max 10 dBm	Ban 1 20.00 dE 30	3m Offset dB SWT 2	6.88 dB 🖷	NT+ 2M 24 RBW 100 kHz	457MHz Ant Mode Auto FF		HIGH 2.457	-5.05 dBm 05000 GHz 57.04 dBm
Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm 0 dBm -10/dBm	Ban 1 20.00 dE 30	3m Offset dB SWT 2	6.88 dB 🖷	NT+ 2M 24 RBW 100 kHz	457MHz Ant Mode Auto FF		HIGH 2.457	-5.05 dBm 05000 GHz 57.04 dBm
Spectrum Ref Level Att SGL Count 10 dBm 0 dBm -10/dBm -20 dBm	Ban 20.00 df 30 100/100	3m Offset dB SWT 2	6.88 dB 🖷	NT+ 2M 24 RBW 100 kHz	457MHz Ant Mode Auto FF		HIGH 2.457	-5.05 dBm 05000 GHz 57.04 dBm
Spectrum Ref Level Att SGL Count IPk Max 10 dBm 0 dBm -10/dBm -20 dBm -30 dBm	Ban 20.00 df 30 100/100	Bim Offset dB SWT 2	6.88 dB 🖷	NT+ 2M 24 RBW 100 kHz	457MHz Ant Mode Auto FF		HIGH 2.457	-5.05 dBm 05000 GHz 57.04 dBm
Spectrum Ref Level Att SGL Count IPk Max ID dBm -10 dBm -20 dBm -30 dBm -40 dBm	Ban 20.00 df 30 100/100	Bim Offset dB SWT 2	6.88 dB 🖷	NT+ 2M 24	457MHz Ant Mode Auto FF M1[1] M2[1]		HIGH 2.457	-5.05 dBm 05000 GHz 57.04 dBm
Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm -50 dBm	Ban 20.00 dt 30 100/100	Bim Offset dB SWT 2	6.88 dB 27.5 µs 	NT+ 2M 24	457MHz Ant Mode Auto FF 	T	2.457 2.483	-5.05 dBm 05000 GHz 57.04 dBm 50000 GHz
Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm -50 dBm	Ban 20.00 dt 30 100/100	Bin Offset dB SWT 2	6.88 dB 27.5 μs 	NT+ 2M 24 RBW 100 kHz VBW 300 kHz	457MHz Ant Mode Auto FF 		2.457 2.483	-5.05 dBm 05000 GHz 57.04 dBm 50000 GHz
Spectrum Ref Level Att SGL Count IPk Max 10 dBm 0 dBm -10/dBm -20 dBm -30 dBm	Ban 20.00 dt 30 100/100	Bin Offset dB SWT 2	6.88 dB 27.5 µs 	NT+ 2M 24	457MHz Ant Mode Auto FF 	T	2.457 2.483	-5.05 dBm 05000 GHz 57.04 dBm 50000 GHz
Spectrum Ref Level Att SGL Count IPk Max 10 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm -70 dBm	Ban 20.00 df 30 100/100	Bin Offset dB SWT 2	6.88 dB 27.5 µs 	NT+ 2M 24	457MHz Ant Mode Auto FF M1[1] M2[1]	T	2.457 2.483	-5.05 dBm 05000 GHz 57.04 dBm 50000 GHz
Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -50 dBm -70 dBm -70 dBm -70 dBm -70 dBm	Ban 20.00 df 30 100/100 D1 -24.5	Bin Offset dB SWT 2	6.88 dB 27.5 µs 	NT+ 2M 24	457MHz Ant Mode Auto FF M1[1] M2[1]	Т 	2.457 2.483	-5.05 dBm 05000 GHz 57.04 dBm 50000 GHz
Spectrum Ref Level Att SGL Count IPk Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm	Ban 20.00 df 30 100/100 D1 -24.5	am Offset dB SWT 2 2 2 322 dBm 2 322 dBm 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	6.88 dB 27.5 μs 27.5	NT+ 2M 24	457MHz Ant Mode Auto FF M1[1] M2[1]	Т 	2.457 2.483	-5.05 dBm 05000 GHz 57.04 dBm 50000 GHz
Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -50 dBm -50 dBm -70 dBm -70 dBm -70 dBm -70 dBm Ref M1 M2	Ban 20.00 df 30 100/100 D1 -24.5 AwyMawy 3 GHz	Sim Offset dB SWT 2	6.88 dB 27.5 μs 27.5	NT+ 2M 24	457MHz Ant Mode Auto FF M1[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1]	Т 	2.457 2.483	-5.05 dBm 05000 GHz 57.04 dBm 50000 GHz
Spectrum Ref Level Att SGL Count 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -50 dBm -50 dBm -70 dBm	Ban 20.00 dt 30 100/100 D1 -24.5 Awrid(hun) B GHz	am Offset dB SWT 2	6.88 dB 27.5 μs 27.5	NT+ 2M 24	457MHz Ant Mode Auto FF M1[1] M2[1	Т 	2.457 2.483	-5.05 dBm 05000 GHz 57.04 dBm 50000 GHz



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