

TEST REPORT

Application No.: GZCR2202000223AT
Applicant: Binatone Electronics International Ltd.
Address of Applicant: 25/F, Guangdong Investment Tower, 148 Connaught Road Central, Sheung Wan, Hong Kong.
Manufacturer: Binatone Telecom Plc.
Address of Manufacturer: 1 Apsley Way London NW2 7HF, United Kingdom
Factory: Heyuan Yongyida Technology Co., Ltd
Address of Factory: Xinyongyi Science and Technology Park, No. 9, Gaoxin 3rd Road, High-tech Zone, Heyuan City, Guangdong, China
Equipment Under Test (EUT):
EUT Name: Kids Smart Phone
Model No.: MIMO PHONE
Trade mark:
Standard(s) : 47 CFR Part 2
 47 CFR Part 22 subpart H
 47 CFR Part 24 subpart E
 47 CFR Part 27 subpart C
Date of Receipt: 2022-02-14
Date of Test: 2022-02-15 to 2022-03-24
Date of Issue: 2022-03-31

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Kobe Jian
EMC Laboratory Manager



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<i>Revision Record</i>				
Version	Chapter	Date	Modifier	Remark
01		2022-03-31		Original

Authorized for issue by			
			
		<hr/> Curry Wu/Project Engineer	
			
		<hr/> Ricky Liu/Reviewer	



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2 Test Summary

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913, §24.232 §27.50(d)	ERP≤7W(WCDMA band V) EIRP≤2W(WCDMA band II) EIRP≤1W(WCDMA Band IV)	PASS
Peak-Average Ratio	§22.913 §24.232 §27.50(d)	≤13dB	PASS
Modulation Characteristics	§2.1047	Digital modulation	PASS
Bandwidth	§2.1049(h)	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	§2.1051, §22.917, §24.238 §27.53(h)	≤ -13dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	PASS
Spurious emissions at antenna terminals	§2.1051, §22.917, §24.238 §27.53(h)	≤ -13dBm	PASS
Field strength of spurious radiation	§2.1051, §22.917, §24.238 §27.53(h)	≤ -13dBm	PASS
Frequency stability	§2.1055, §22.355, §24.235 §27.54	≤ ±2.5ppm.	PASS

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC3.8V by li-ion battery(2500mAh) Recharged by 5V/1A from power adapter Or 5V/1A from wireless charger
Cable(s):	USB type C cable: 1m shielded cable without ferrite core
Sample Type:	Portable production
Support Network:	RMC, HSDPA, HSUPA
Operation Frequency Band:	UMTS FDD Band II/IV/V
Modulation Type:	QPSK for WCDMA
Supported Channel Bandwidth:	5MHz for WCDMA
UMTS Power Class:	Level 3
Antenna Type:	PIFA antenna
Antenna Gain:	WCDMA band II/IV/V: 0.5dBi
Extreme temp. Tolerance:	-30°C to +50°C
Extreme vol. Limits:	3.5VDC to 4.35VDC (nominal: 3.8VDC)



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4.2 Test Frequency

Test Mode	TX/RX	RF Channel		
		Low(L)	Middle (M)	High (H)
WCDMA Band V	TX	Channel 4132	Channel 4183	Channel 4233
		826.4 MHz	836.6 MHz	846.6 MHz
	RX	Channel 4357	Channel 4407	Channel 4458
		871.4 MHz	881.4 MHz	891.6 MHz
Test Mode	TX/RX	RF Channel		
		Low(L)	Middle (M)	High (H)
WCDMA Band IV	TX	Channel 1312	Channel 1413	Channel 1513
		1712.4 MHz	1732.6 MHz	1752.6 MHz
	RX	Channel 1537	Channel 1638	Channel 1738
		2112.4	2132.6MHz	2152.6MHz
Test Mode	TX/RX	RF Channel		
		Low(L)	Middle (M)	High (H)
WCDMA Band II	TX	Channel 9262	Channel 9400	Channel 9538
		1852.4 MHz	1880.0 MHz	1907.6 MHz
	RX	Channel 9662	Channel 9800	Channel 9938
		1932.4 MHz	1960.0 MHz	1987.6 MHz

4.3 Test Environment

Environment Parameter	Selected Values During Tests	
Relative Humidity	52%	
Atmospheric Pressure:	1015Pa	
Temperature:	TL	-30°C
	TN	+20°C
	TH	+50°C
Voltage:	VL	3.5 V
	VN	3.8 V
	VH	4.35 V

NOTE: VL= lower extreme test voltage
 VN= nominal voltage
 VH= upper extreme test voltage
 TL= lower extreme test temperature
 TN= normal temperature
 TH= upper extreme test temperature



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4.4 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Apple	A1357	/

4.5 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.25×10^{-8}
2	Duty cycle	0.37%
3	Occupied Bandwidth	3%
4	RF conducted power	0.75dB
5	RF power density	2.84dB
6	Conducted Spurious emissions	0.75dB
7	RF Radiated power	$\pm 5.06\text{dB}$ (3m); $\pm 4.46\text{dB}$ (10m)
		$\pm 5.08\text{dB}$ (1GHz-6GHz); $\pm 5.14\text{dB}$ (above 6GHz)
8	Radiated Spurious emission test	$\pm 5.06\text{dB}$ (3m); $\pm 4.46\text{dB}$ (10m)
		$\pm 5.08\text{dB}$ (1GHz-6GHz); $\pm 5.14\text{dB}$ (above 6GHz)
9	Temperature test	1°C
10	Humidity test	3%
11	Supply voltages	1.5%
12	Time	3%

4.6 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
 198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,
 Guangzhou, China 510663

Tel: +86 20 82155555

Fax: +86 20 82075059

No tests were sub-contracted.



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4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None



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5 Equipment List

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
EXA Signal Analyzer(10Hz-44GHz)	Agilent Technologies	N9010A	EMC2138	2021-09-16	2022-09-15
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Measurement Software	TST	V2.0	GZE100-78	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2021-11-01	2022-10-31
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Wideband Radio Communication Tester(CMW500)	R&S	CMW500	EMC2215	2021-09-19	2022-09-18
Power Meter (U2021XA_Ch2)	Agilent Technologies	U2021XA_Ch2	SEM009-02	2021-05-19	2022-05-18
Temperature Chamber	GZ GongWen Co.Ltd.	GDJW-100	EMC0039	2021-07-04	2022-07-03

RE in Chamber(below 1GHz)					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08
Trilog Broadband Antenna(25MHz-1GHz)-Lab	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-21
				2022-02-21	2025-02-20
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2220	2021-05-26	2022-05-25
Chamber cable	HangTianXing	N/A	EMC0542	2021-09-08	2022-09-07
Trilog Broadband Antenna(25MHz-1GHz)	SCHWARZBECK	VULB 9160	EMC2025	2020-09-24	2023-09-23
Signal Generator (10MHz-20GHz)	Rohde & Schwarz	SMR20	EMC0516	2022-01-10	2023-01-09
Wideband Radio Communication Tester(CMW500)	R&S	CMW500	EMC2215	2021-09-19	2022-09-18



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RE in Chamber(above 1GHz)					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2021-09-08	2022-09-07
Horn Antenna(1GHz-18GHz)	SCHWARZBECK MESS- ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2022-01-07	2023-01-06
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-16	2022-09-15
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Horn Antenna(14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2021-09-08	2022-09-07
Wideband Radio Communication Tester(CMW500)	R&S	CMW500	EMC2215	2021-09-19	2022-09-18
Substitution Antenna	SCHWARZBECK MESS- ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
Signal Generator (10MHz-20GHz)	Rohde & Schwarz	SMR20	EMC0516	2022-01-10	2023-01-09

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2021-07-05	2022-07-04
DMM	Fluke	73	EMC0007	2021-07-05	2022-07-04



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6 Radio Spectrum Matter Test Results

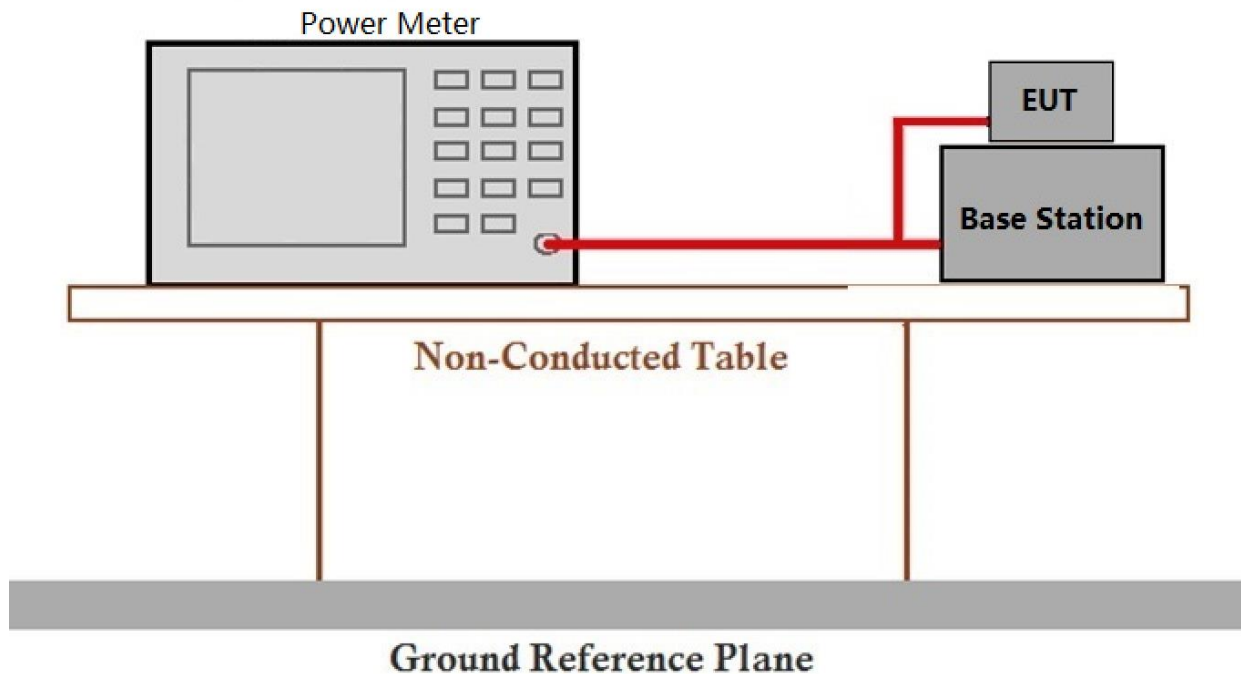
6.1 Effective (Isotropic) Radiated Power Output Data

Test Requirement: §2.1046, §22.913, §24.232, §27.50(d)
 Test Method: ANSI C63.26, KDB 971168 D01 v03
 Limit: ERP≤7W(WCDMA BAND V)
 EIRP≤2W(WCDMA BAND II)
 EIRP≤1W(WCDMA Band IV)

6.1.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.2 °C Humidity: 45.5 % RH Atmospheric Pressure: 1010 mbar
 Test mode: 20: TX mode_Keep the EUT in transmitting mode

6.1.2 Test Setup Diagram



6.1.3 Measurement Data



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Band: 2											
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict			
	Network	Subset				Result	Limit				
NTNV	RMC	12.2kbps RMC	1852.4	21.32	0.50	21.82	<=33.01	Pass			
			1880	21.33	0.50	21.83	<=33.01	Pass			
			1907.6	21.22	0.50	21.72	<=33.01	Pass			
	HSDPA		Subtest 1	1852.4	20.94	0.50	21.44	<=33.01	Pass		
			Subtest 2	1852.4	20.94	0.50	21.44	<=33.01	Pass		
			Subtest 3	1852.4	20.93	0.50	21.43	<=33.01	Pass		
			Subtest 4	1852.4	20.93	0.50	21.43	<=33.01	Pass		
			Subtest 1	1880	20.96	0.50	21.46	<=33.01	Pass		
			Subtest 2	1880	20.95	0.50	21.45	<=33.01	Pass		
			Subtest 3	1880	20.95	0.50	21.45	<=33.01	Pass		
			Subtest 4	1880	20.94	0.50	21.44	<=33.01	Pass		
			Subtest 1	1907.6	20.49	0.50	20.99	<=33.01	Pass		
			Subtest 2	1907.6	20.50	0.50	21	<=33.01	Pass		
			Subtest 3	1907.6	20.48	0.50	20.98	<=33.01	Pass		
			Subtest 4	1907.6	20.46	0.50	20.96	<=33.01	Pass		
			HSUPA		Subtest 1	1852.4	18.53	0.50	19.03	<=33.01	Pass
					Subtest 2	1852.4	18.46	0.50	18.96	<=33.01	Pass
					Subtest 3	1852.4	18.78	0.50	19.28	<=33.01	Pass
					Subtest 4	1852.4	18.76	0.50	19.26	<=33.01	Pass
	Subtest 5	1852.4			18.57	0.50	19.07	<=33.01	Pass		
	Subtest 1	1880			18.99	0.50	19.49	<=33.01	Pass		
	Subtest 2	1880			18.53	0.50	19.03	<=33.01	Pass		
	Subtest 3	1880			18.98	0.50	19.48	<=33.01	Pass		
	Subtest 4	1880			18.80	0.50	19.3	<=33.01	Pass		
	Subtest 5	1880			18.67	0.50	19.17	<=33.01	Pass		
	Subtest 1	1907.6			18.12	0.50	18.62	<=33.01	Pass		
	Subtest 2	1907.6			18.08	0.50	18.58	<=33.01	Pass		
	Subtest 3	1907.6			18.35	0.50	18.85	<=33.01	Pass		
	Subtest 4	1907.6			18.10	0.50	18.6	<=33.01	Pass		
	Subtest 5	1907.6	18.32	0.50	18.82	<=33.01	Pass				

Note1: EIRP=Conducted Power+Antenna Gain



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Band: 4								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dbi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	21.78	0.50	22.28	<=30	Pass
			1732.6	21.89	0.50	22.39	<=30	Pass
			1752.6	21.98	0.50	22.48	<=30	Pass
	HSDPA	Subtest 1	1712.4	20.26	0.50	20.76	<=30	Pass
		Subtest 2	1712.4	20.27	0.50	20.77	<=30	Pass
		Subtest 3	1712.4	20.28	0.50	20.78	<=30	Pass
		Subtest 4	1712.4	20.24	0.50	20.74	<=30	Pass
		Subtest 1	1732.6	21.28	0.50	21.78	<=30	Pass
		Subtest 2	1732.6	21.29	0.50	21.79	<=30	Pass
		Subtest 3	1732.6	21.29	0.50	21.79	<=30	Pass
		Subtest 4	1732.6	21.25	0.50	21.75	<=30	Pass
		Subtest 1	1752.6	20.22	0.50	20.72	<=30	Pass
		Subtest 2	1752.6	20.22	0.50	20.72	<=30	Pass
		Subtest 3	1752.6	20.23	0.50	20.73	<=30	Pass
		Subtest 4	1752.6	20.20	0.50	20.7	<=30	Pass
	HSUPA	Subtest 1	1712.4	18.84	0.50	19.34	<=30	Pass
		Subtest 2	1712.4	18.67	0.50	19.17	<=30	Pass
		Subtest 3	1712.4	18.78	0.50	19.28	<=30	Pass
		Subtest 4	1712.4	18.29	0.50	18.79	<=30	Pass
		Subtest 5	1712.4	18.09	0.50	18.59	<=30	Pass
		Subtest 1	1732.6	19.45	0.50	19.95	<=30	Pass
		Subtest 2	1732.6	19.20	0.50	19.7	<=30	Pass
		Subtest 3	1732.6	18.92	0.50	19.42	<=30	Pass
		Subtest 4	1732.6	18.96	0.50	19.46	<=30	Pass
		Subtest 5	1732.6	19.24	0.50	19.74	<=30	Pass
		Subtest 1	1752.6	18.03	0.50	18.53	<=30	Pass
		Subtest 2	1752.6	18.03	0.50	18.53	<=30	Pass
		Subtest 3	1752.6	18.70	0.50	19.2	<=30	Pass
		Subtest 4	1752.6	18.21	0.50	18.71	<=30	Pass
		Subtest 5	1752.6	18.02	0.50	18.52	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain



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Band: 5									
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dbi)	ERP (dBm)		Verdict	
	Network	Subset				Result	Limit		
NTNV	RMC	12.2kbps RMC	826.4	22.59	0.50	20.94	<=38.45	Pass	
			836.6	22.59	0.50	20.94	<=38.45	Pass	
			846.6	22.57	0.50	20.92	<=38.45	Pass	
	HSDPA	Subtest 1	826.4	22.03	0.50	20.38	<=38.45	Pass	
		Subtest 2	826.4	22.04	0.50	20.39	<=38.45	Pass	
		Subtest 3	826.4	22.05	0.50	20.4	<=38.45	Pass	
		Subtest 4	826.4	22.04	0.50	20.39	<=38.45	Pass	
		Subtest 1	836.6	21.16	0.50	19.51	<=38.45	Pass	
		Subtest 2	836.6	21.19	0.50	19.54	<=38.45	Pass	
		Subtest 3	836.6	21.18	0.50	19.53	<=38.45	Pass	
		Subtest 4	836.6	21.16	0.50	19.51	<=38.45	Pass	
		Subtest 1	846.6	21.01	0.50	19.36	<=38.45	Pass	
		Subtest 2	846.6	21.04	0.50	19.39	<=38.45	Pass	
		Subtest 3	846.6	21.03	0.50	19.38	<=38.45	Pass	
		Subtest 4	846.6	21.05	0.50	19.4	<=38.45	Pass	
		HSUPA	Subtest 1	826.4	19.93	0.50	18.28	<=38.45	Pass
			Subtest 2	826.4	19.73	0.50	18.08	<=38.45	Pass
			Subtest 3	826.4	19.72	0.50	18.07	<=38.45	Pass
			Subtest 4	826.4	19.72	0.50	18.07	<=38.45	Pass
			Subtest 5	826.4	19.96	0.50	18.31	<=38.45	Pass
	Subtest 1		836.6	19.21	0.50	17.56	<=38.45	Pass	
	Subtest 2		836.6	19.22	0.50	17.57	<=38.45	Pass	
	Subtest 3		836.6	19.04	0.50	17.39	<=38.45	Pass	
	Subtest 4		836.6	19.08	0.50	17.43	<=38.45	Pass	
	Subtest 5		836.6	19.08	0.50	17.43	<=38.45	Pass	
	Subtest 1		846.6	19.83	0.50	18.18	<=38.45	Pass	
	Subtest 2		846.6	19.56	0.50	17.91	<=38.45	Pass	
	Subtest 3		846.6	19.61	0.50	17.96	<=38.45	Pass	
	Subtest 4	846.6	19.06	0.50	17.41	<=38.45	Pass		
	Subtest 5	846.6	19.10	0.50	17.45	<=38.45	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15



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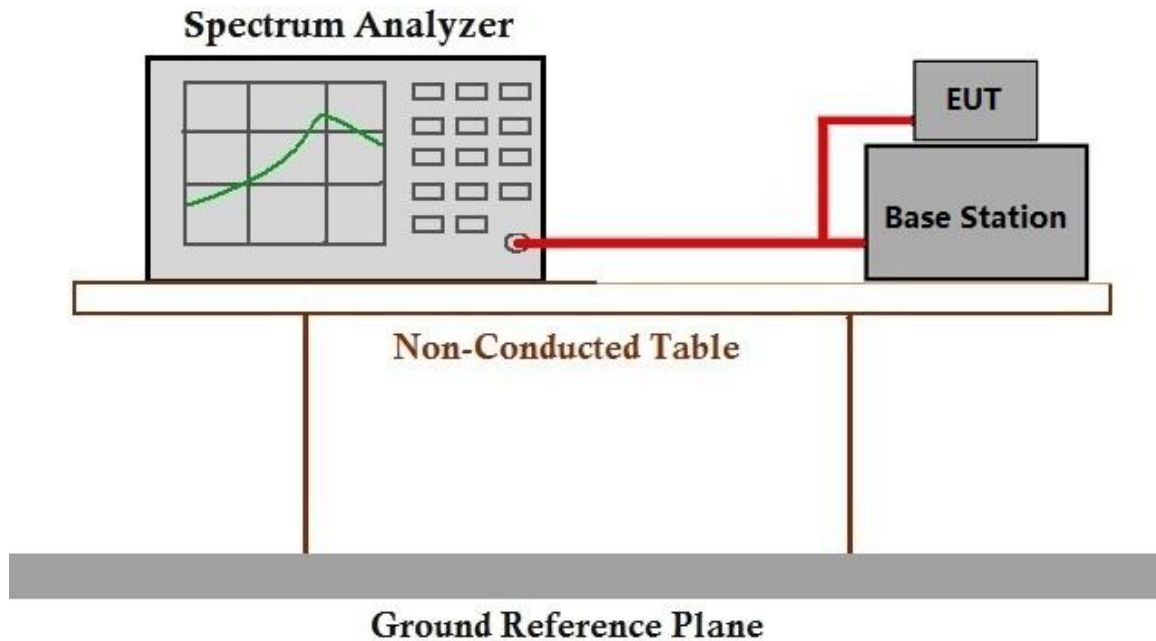
6.2 Peak-Average Ratio

Test Requirement: §22.913, §24.232, §27.50(d)
 Test Method: ANSI C63.26, KDB 971168 D01 v03
 Limit: ≤13dB

6.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.2 °C Humidity: 45.5 % RH Atmospheric Pressure: 1010 mbar
 Test mode: 20: TX mode_Keep the EUT in transmitting mode

6.2.2 Test Setup Diagram

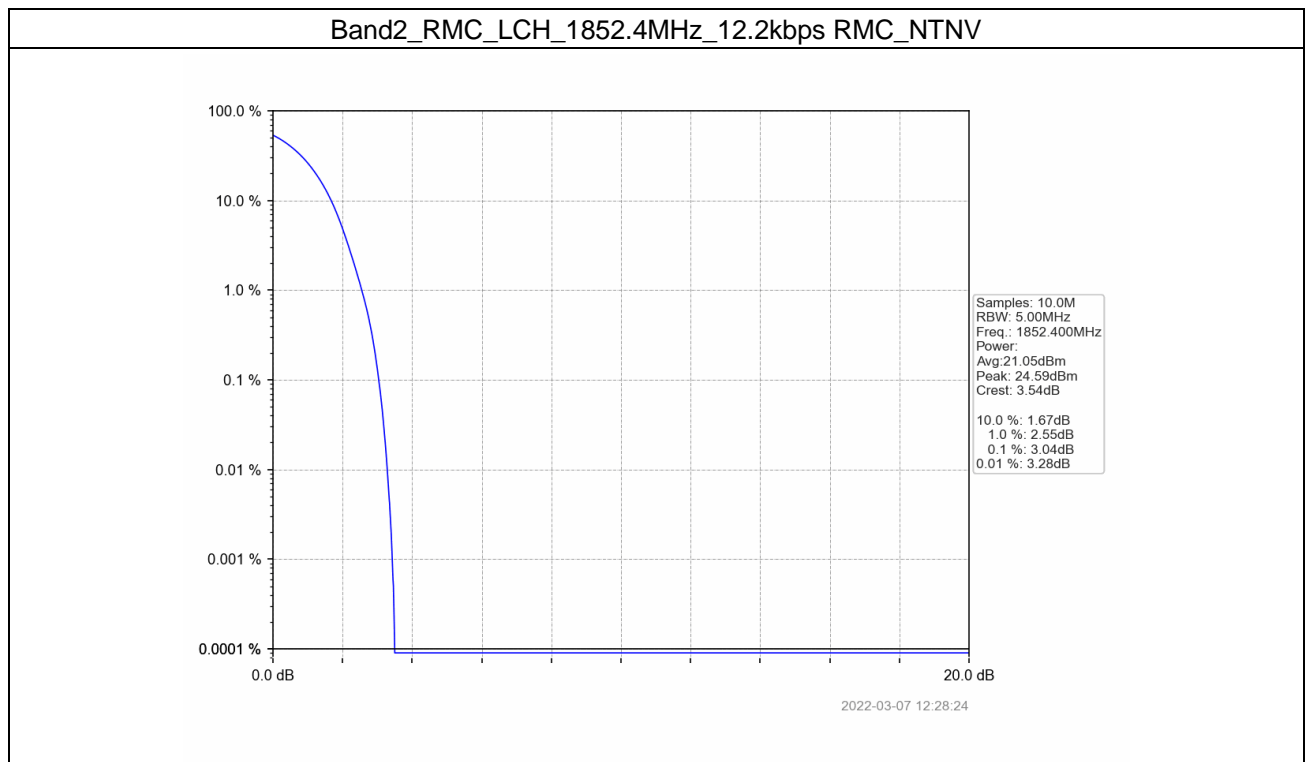


6.2.3 Measurement Data



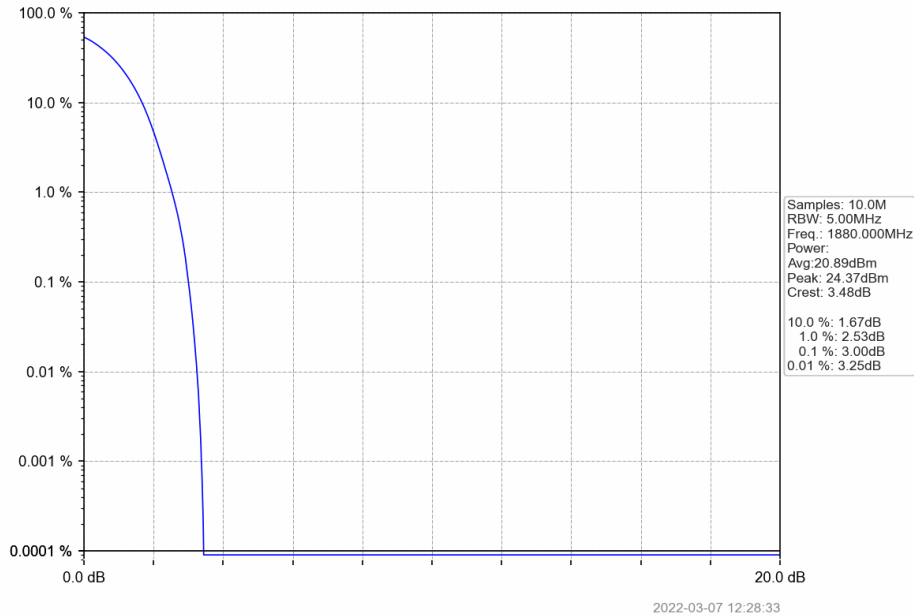
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Band: 2						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	3.04	<=13	Pass
			1880	3.00	<=13	Pass
			1907.6	2.97	<=13	Pass
	HSDPA	Subtest 1	1852.4	5.70	<=13	Pass
			1880	5.69	<=13	Pass
			1907.6	5.69	<=13	Pass
	HSUPA	Subtest 1	1852.4	5.73	<=13	Pass
			1880	5.71	<=13	Pass
			1907.6	5.66	<=13	Pass

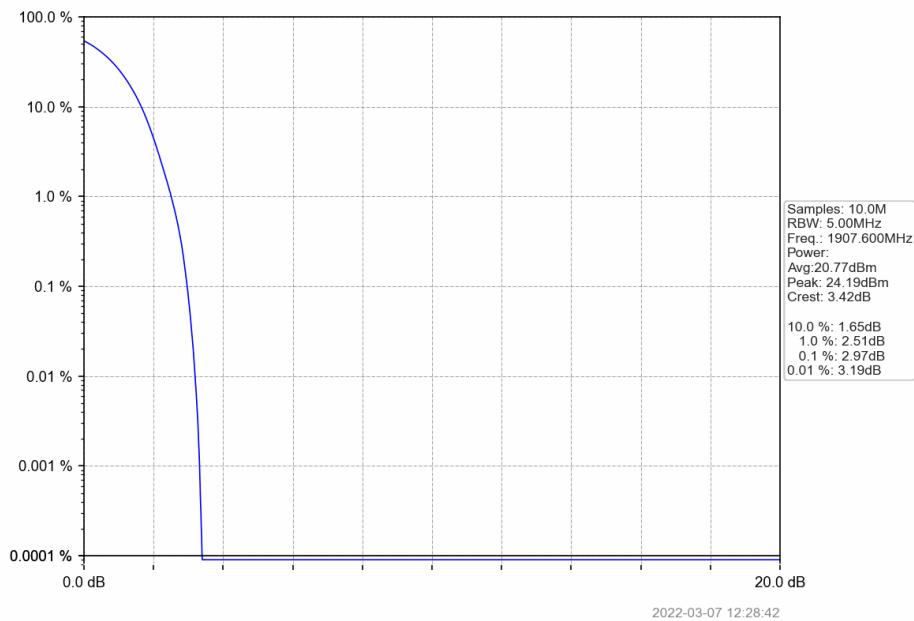


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Band2_RMC_MCH_1880MHz_12.2kbps RMC_NTNV

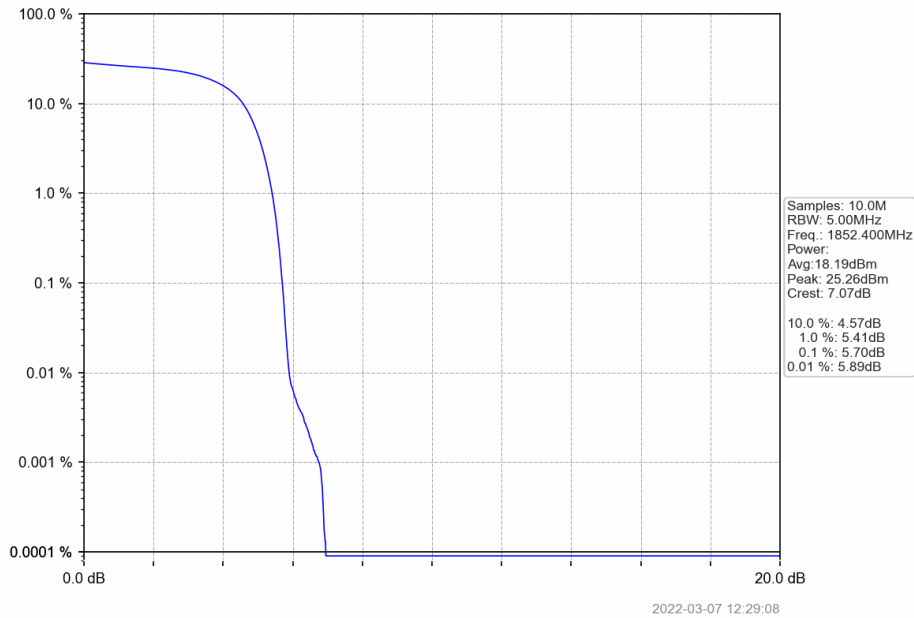


Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV

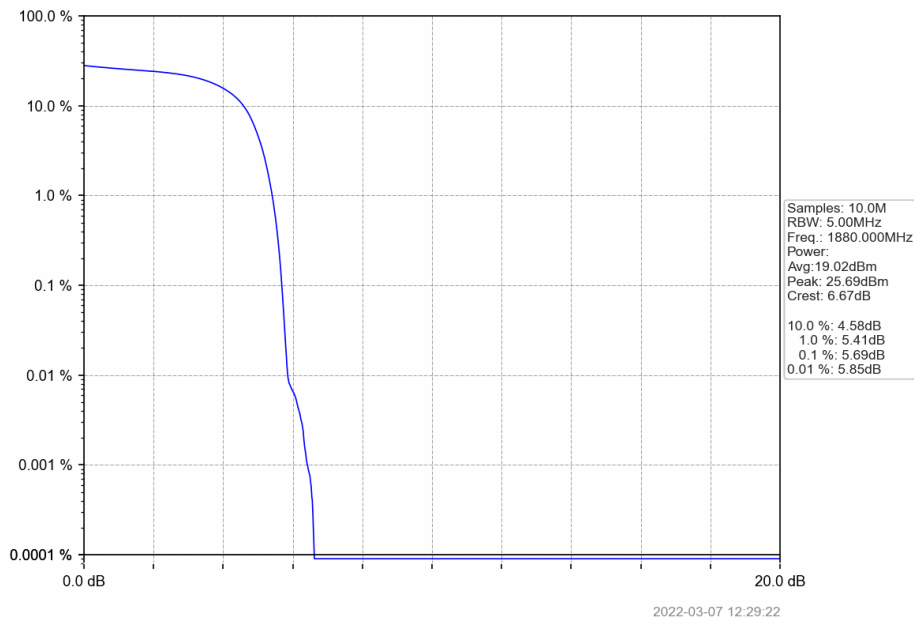


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Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV

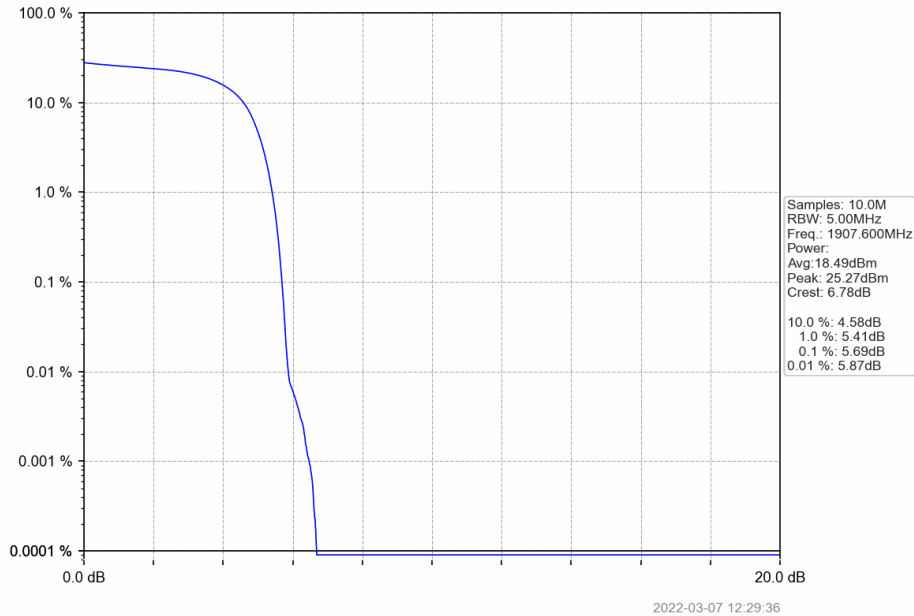


Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV

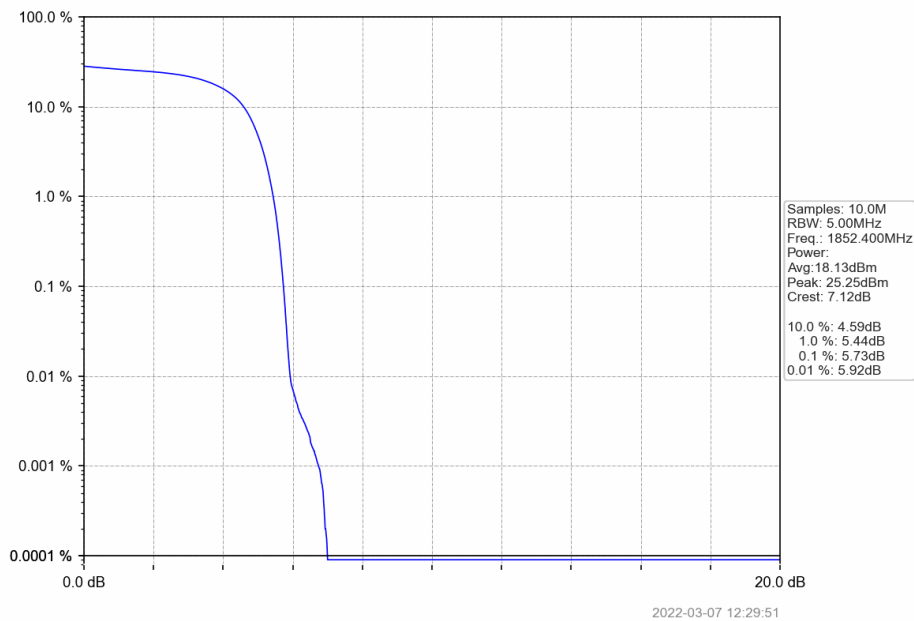


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Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV

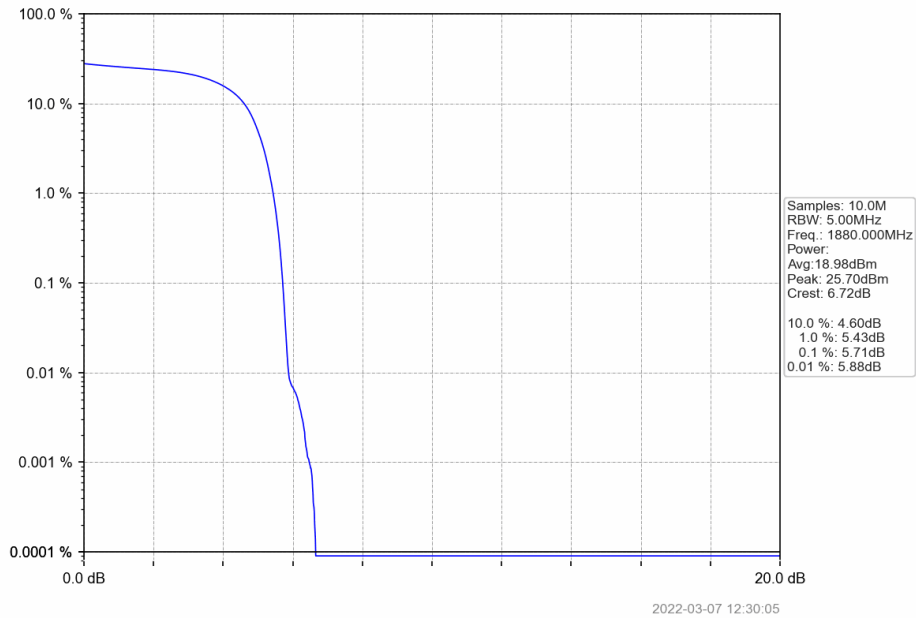


Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV

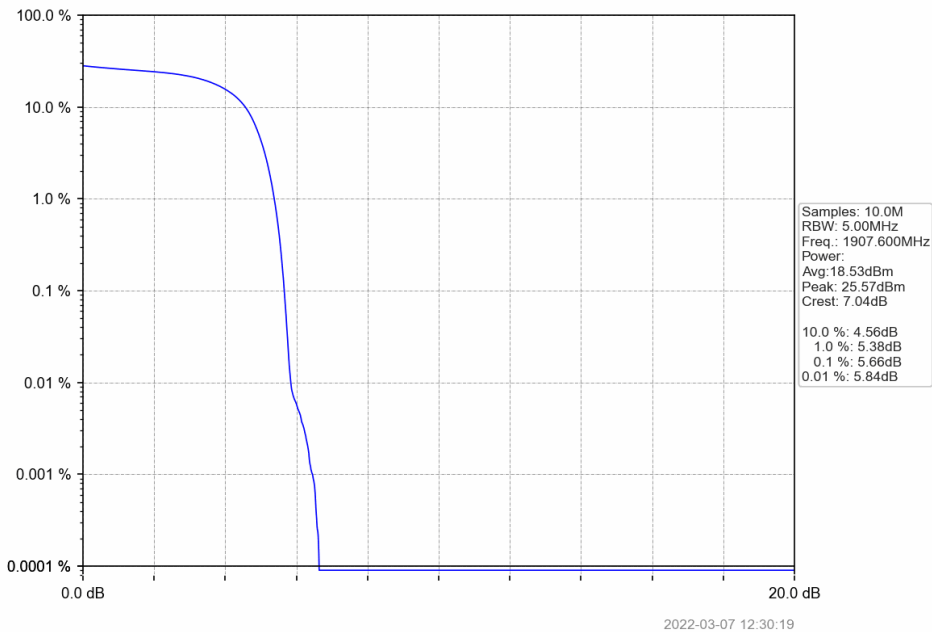


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Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV

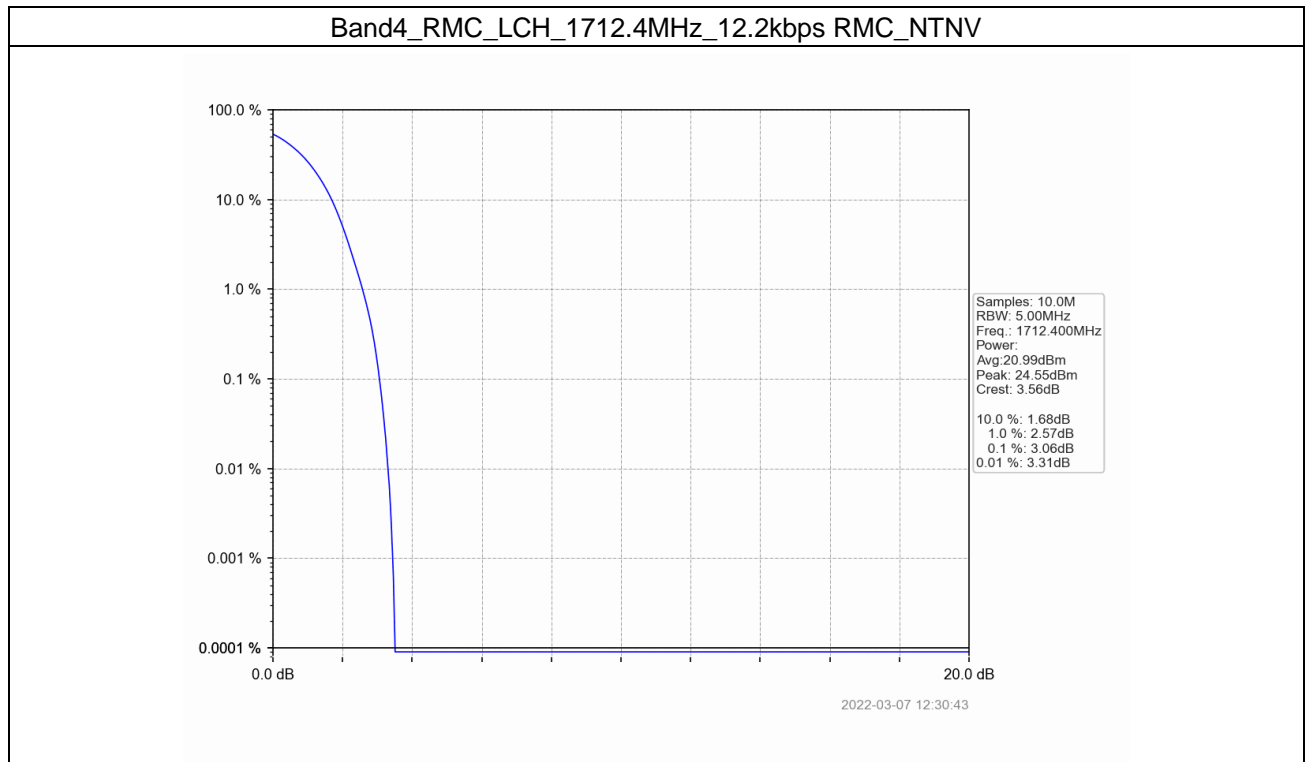


Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



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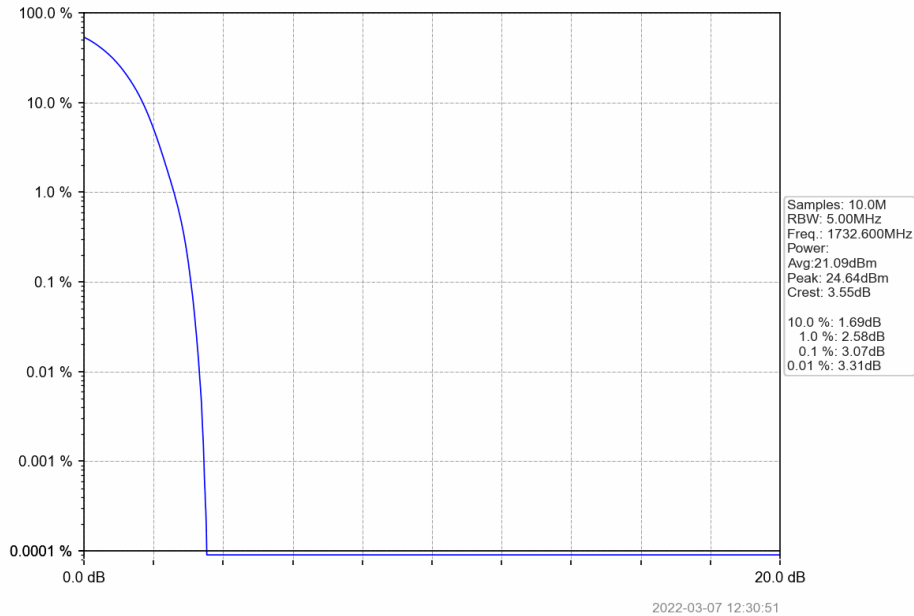
Band: 4						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	3.06	<=13	Pass
			1732.6	3.07	<=13	Pass
			1752.6	3.08	<=13	Pass
	HSDPA	Subtest 1	1712.4	5.78	<=13	Pass
			1732.6	5.69	<=13	Pass
			1752.6	5.75	<=13	Pass
	HSUPA	Subtest 1	1712.4	5.71	<=13	Pass
			1732.6	5.67	<=13	Pass
			1752.6	5.69	<=13	Pass



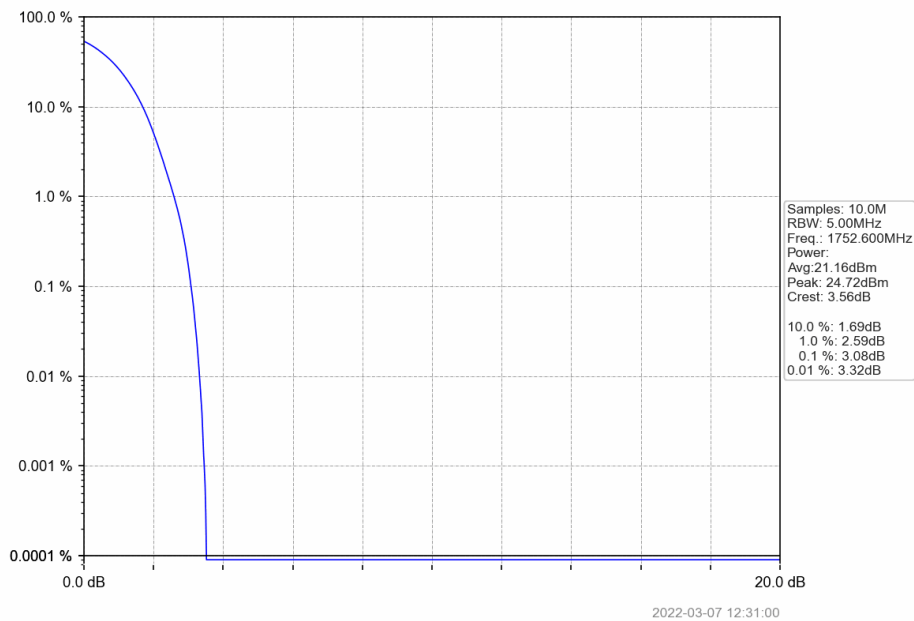
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Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV

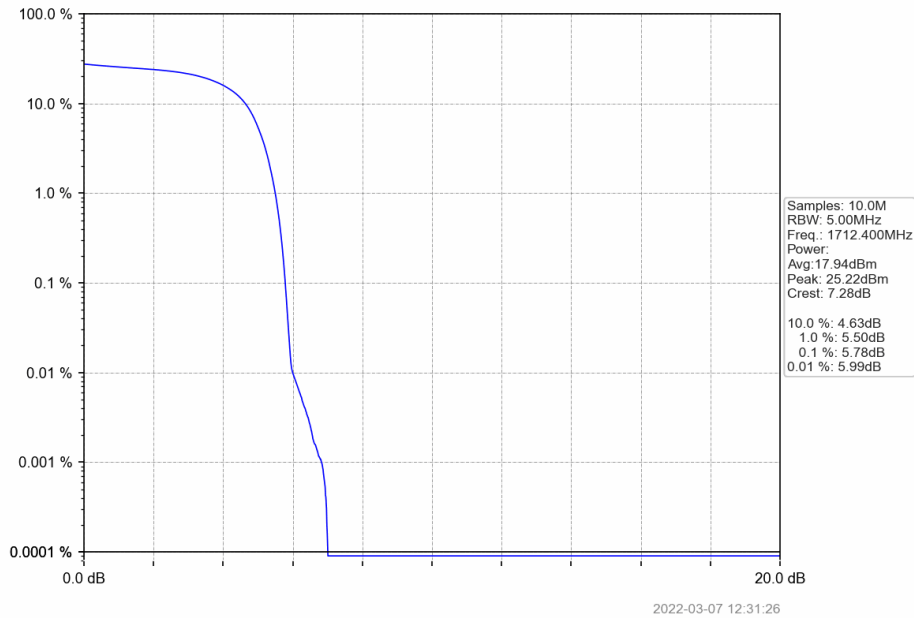


Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV

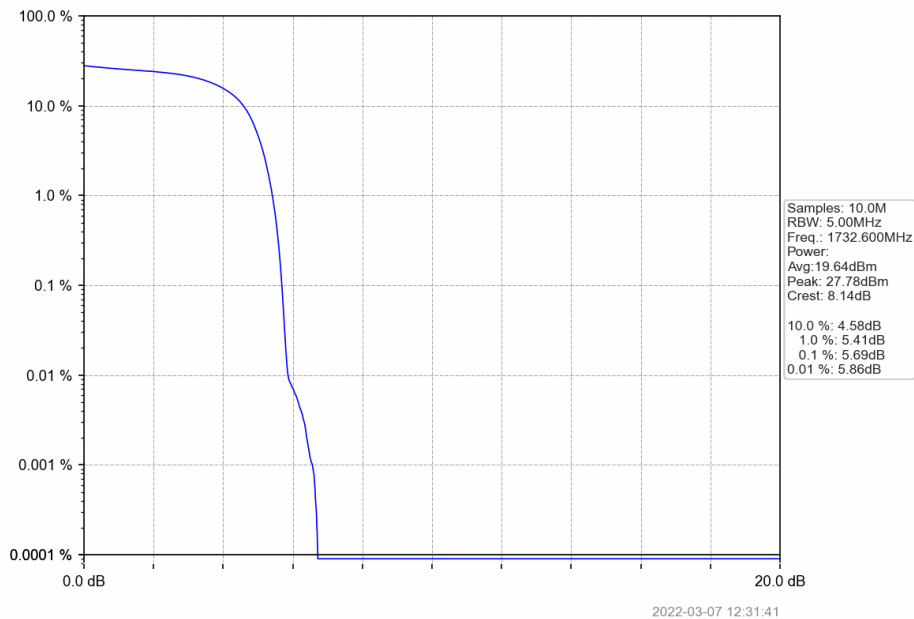


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Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV

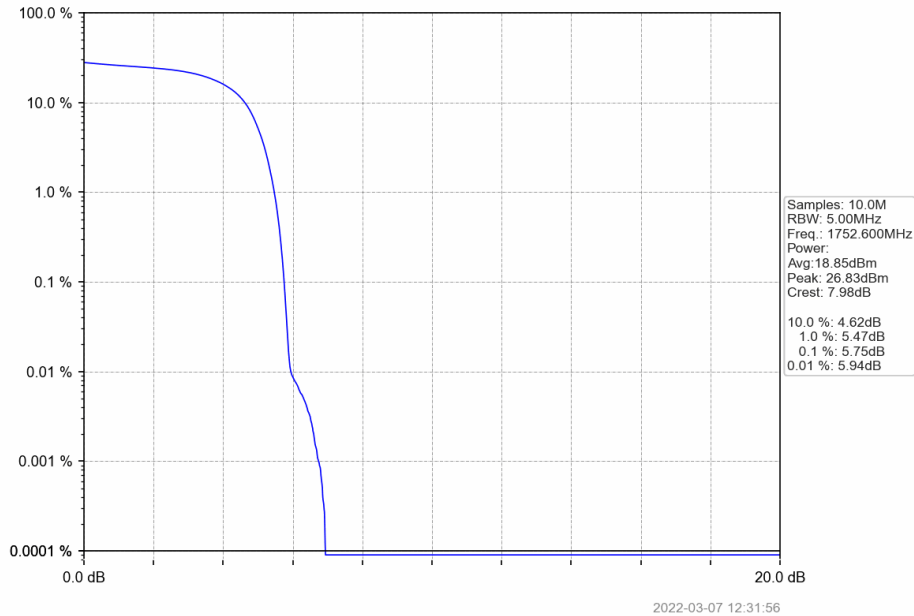


Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV

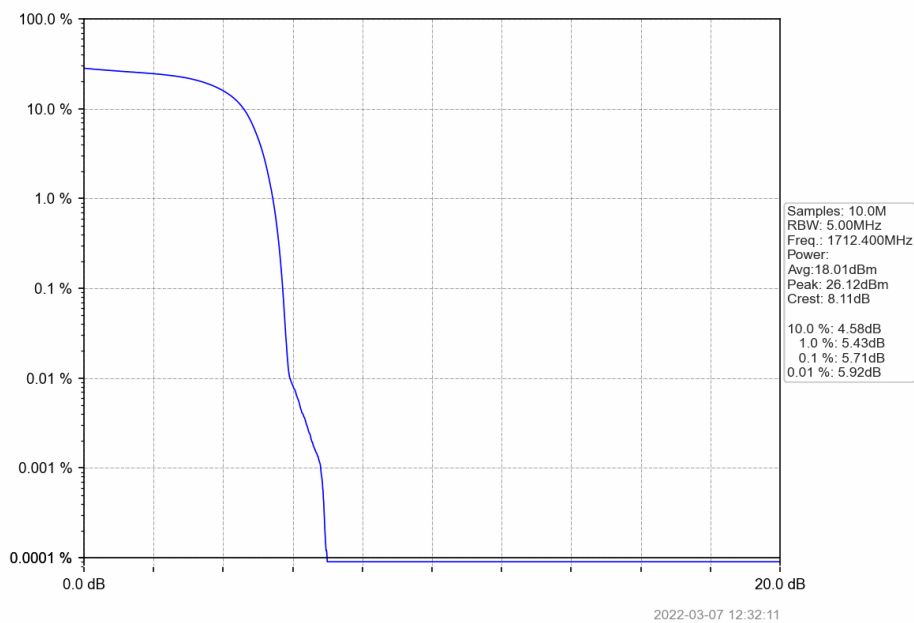


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Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV

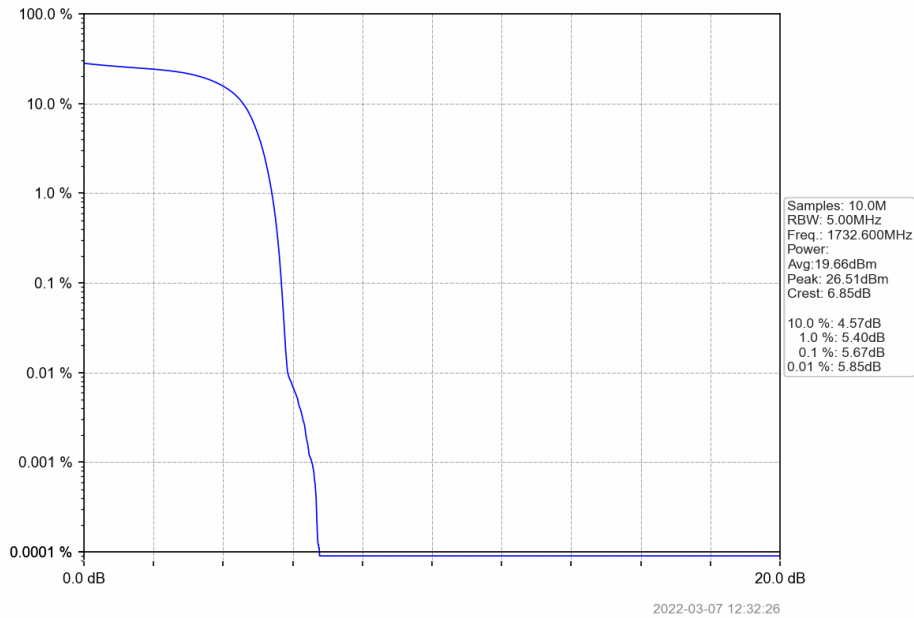


Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV

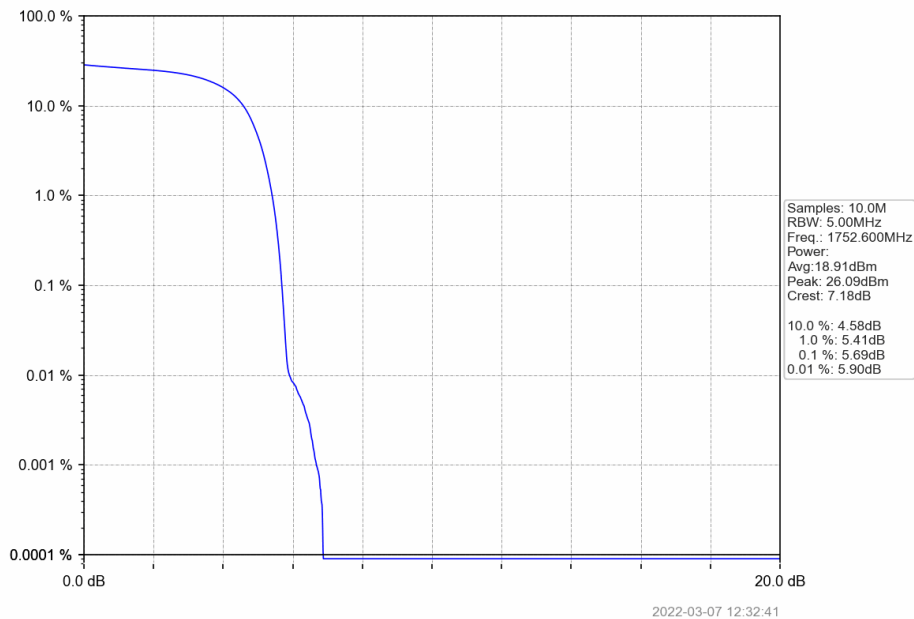


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Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV

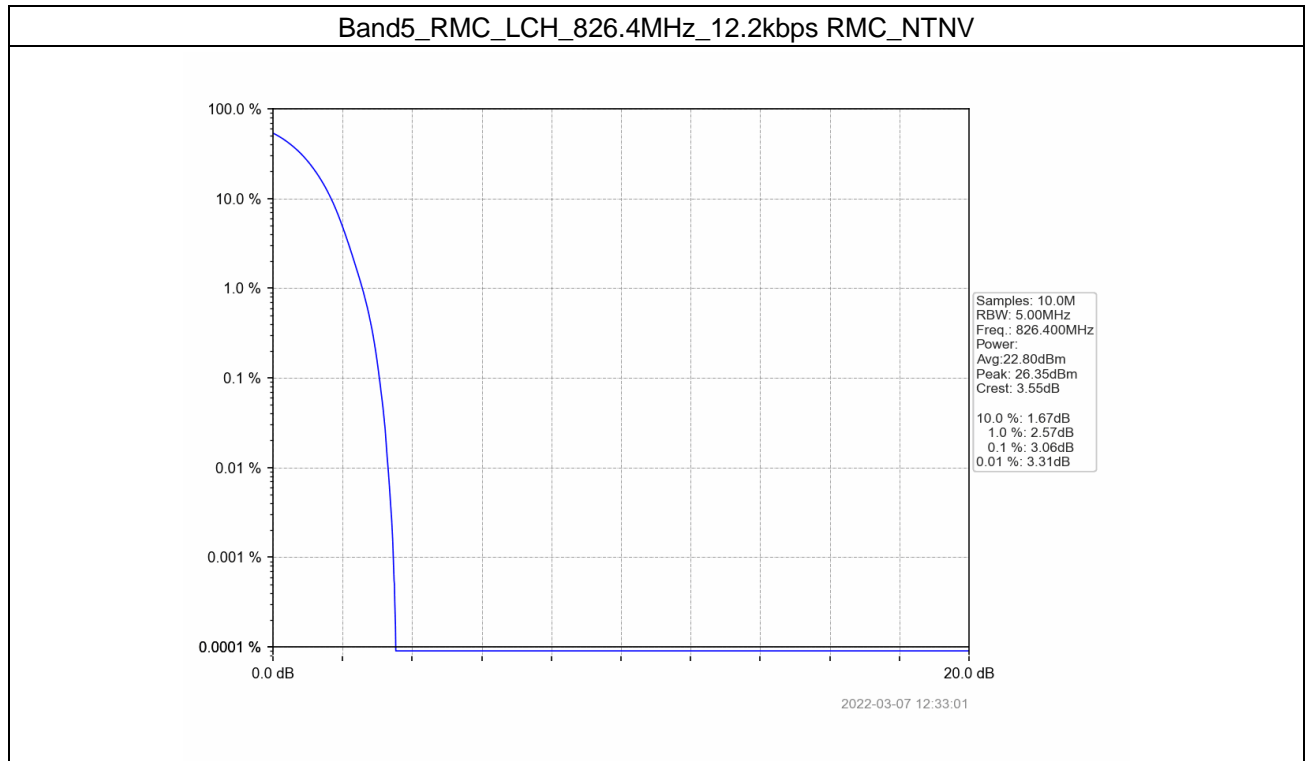


Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



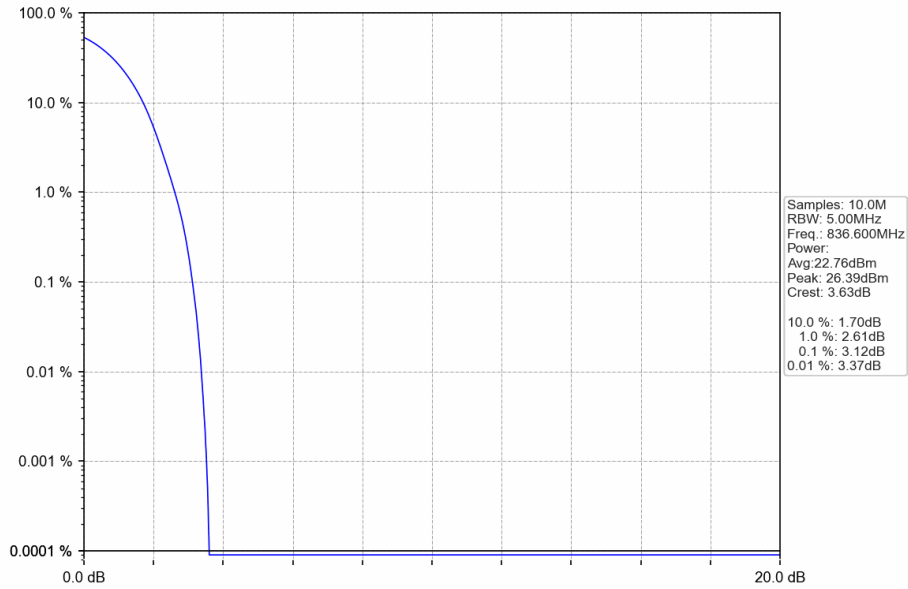
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Band: 5						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	3.06	<=13	Pass
			836.6	3.12	<=13	Pass
			846.6	3.15	<=13	Pass
	HSDPA	Subtest 1	826.4	5.69	<=13	Pass
			836.6	5.77	<=13	Pass
			846.6	5.91	<=13	Pass
	HSUPA	Subtest 1	826.4	5.72	<=13	Pass
			836.6	5.84	<=13	Pass
			846.6	6.00	<=13	Pass



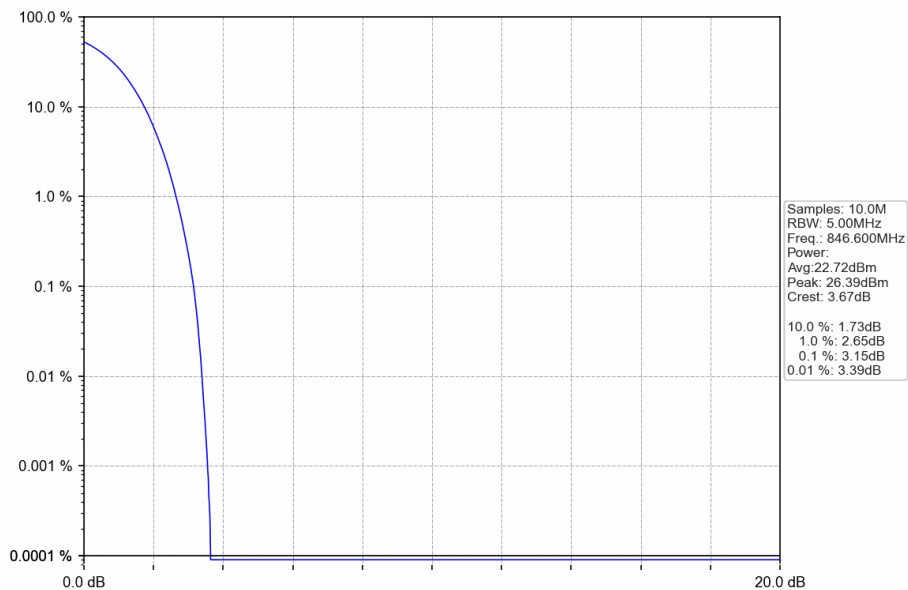
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Band5_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



2022-03-07 12:33:09

Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



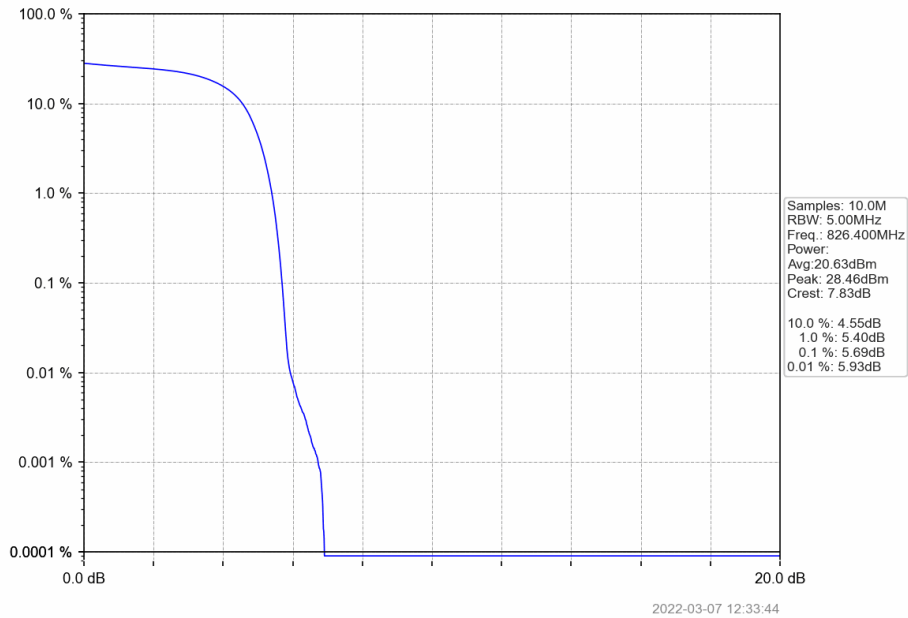
2022-03-07 12:33:18



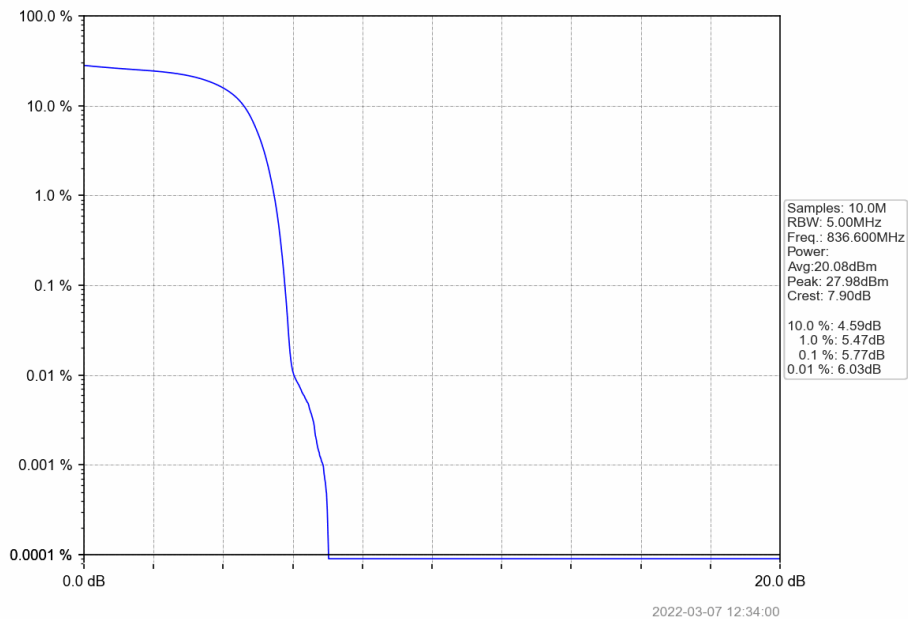
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Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV

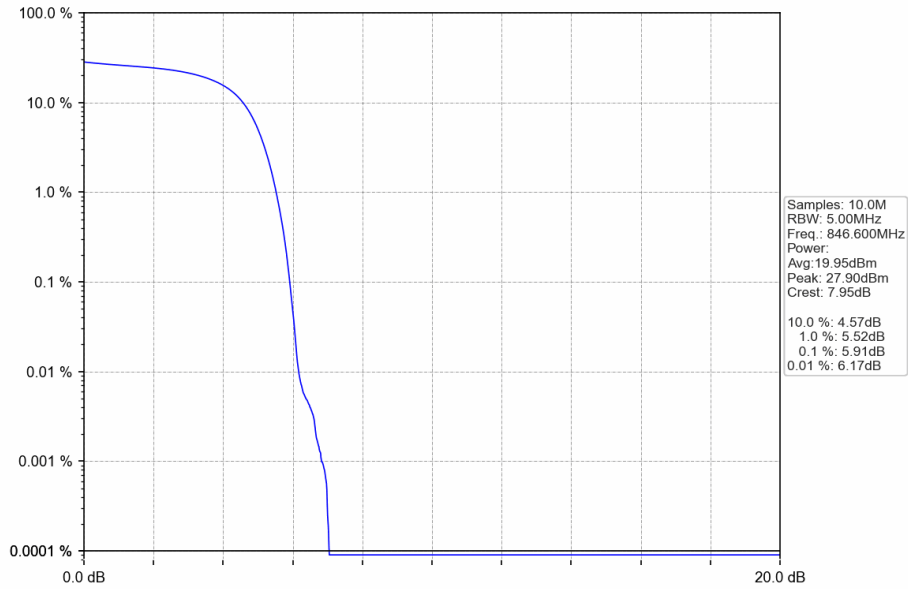


Band5_HSDPA_MCH_836.6MHz_Subtest 1_NTNV



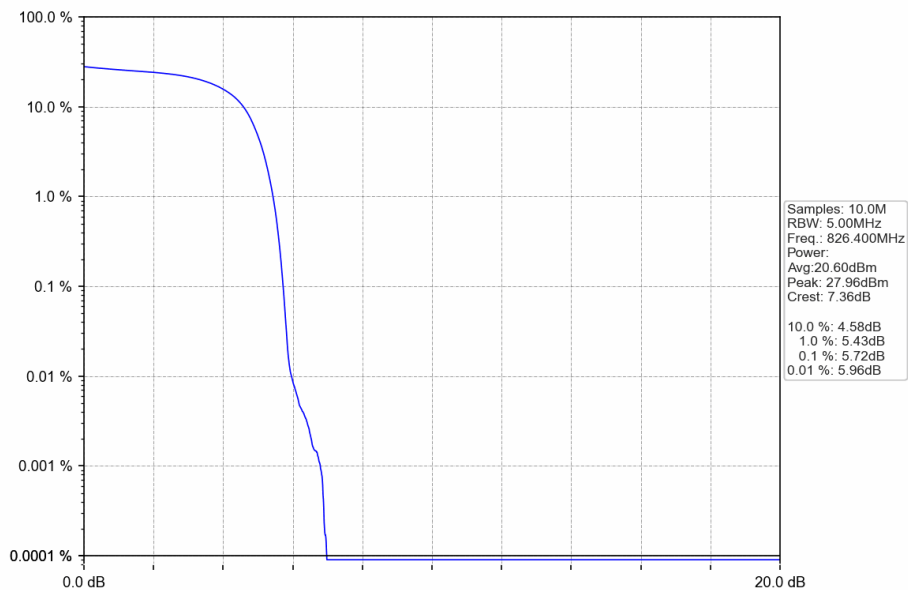
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Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV



2022-03-07 12:34:15

Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV



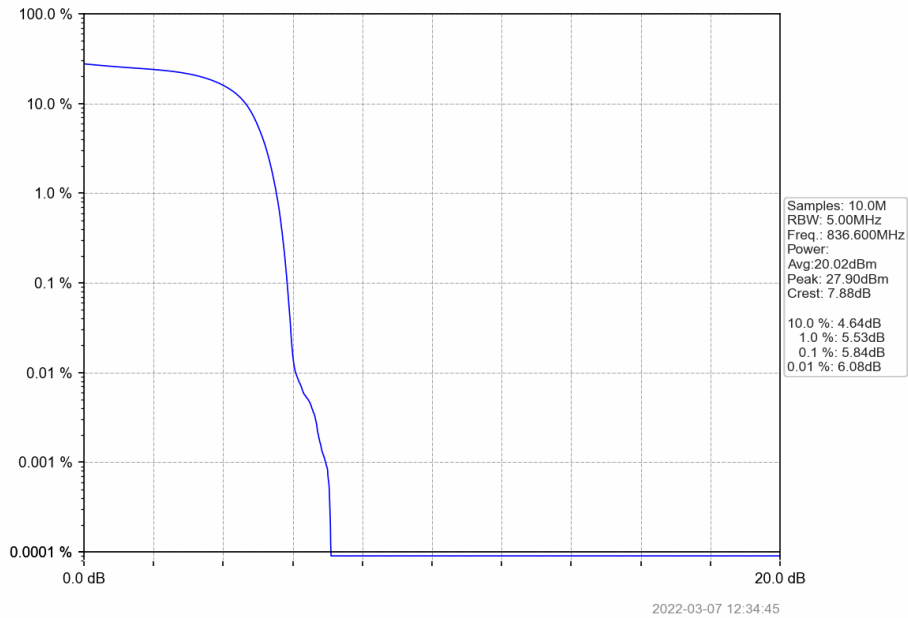
2022-03-07 12:34:30



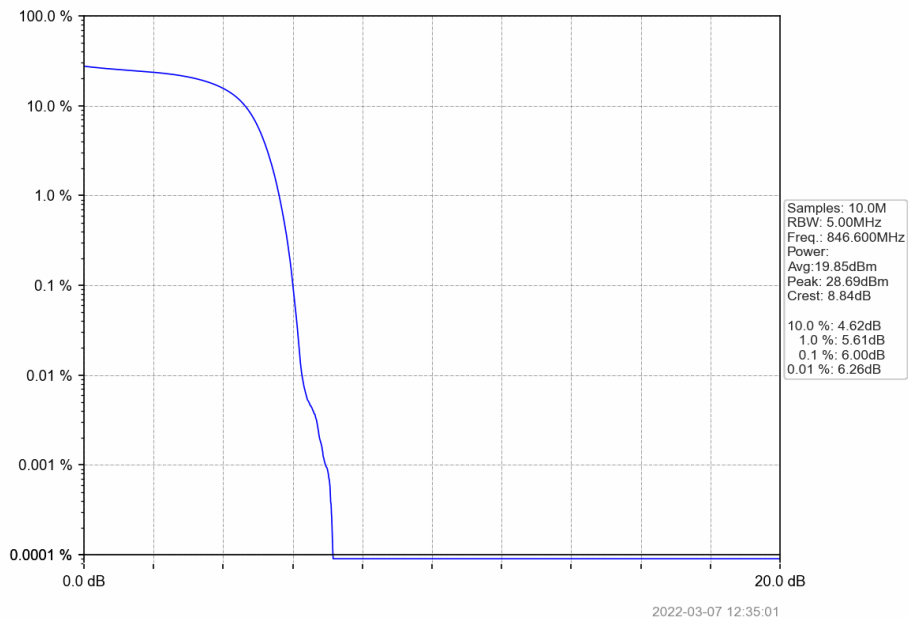
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Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV



Band5_HSUPA_HCH_846.6MHz_Subtest 1_NTNV



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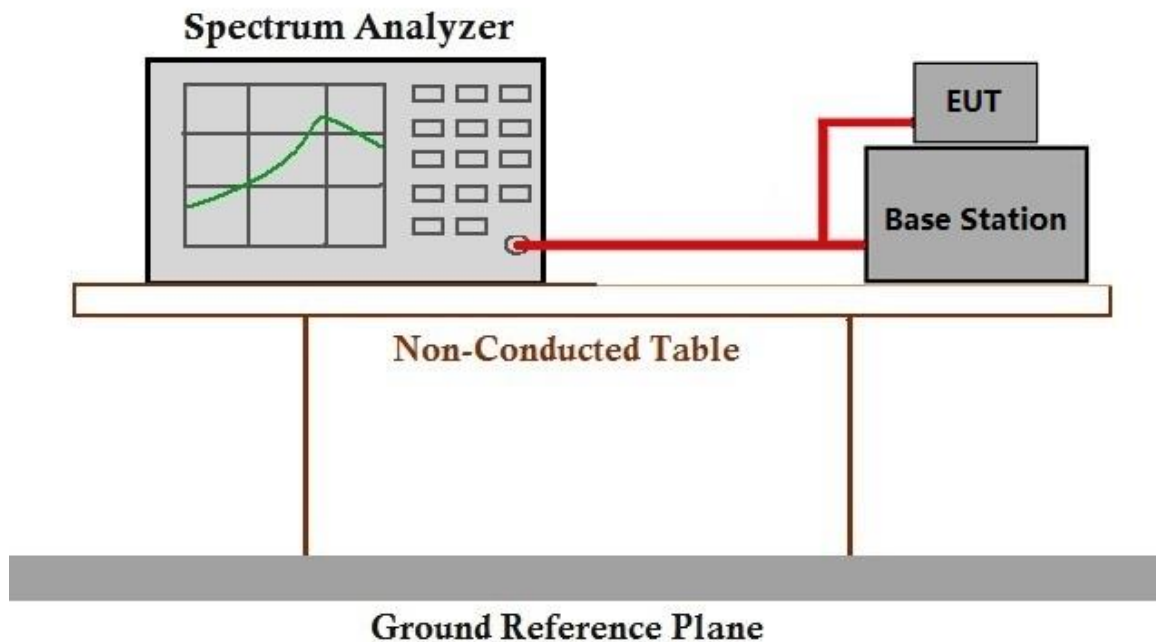
6.3 Bandwidth

Test Requirement: §2.1049(h)
 Test Method: ANSI C63.26, KDB 971168 D01 v03
 Limit: OBW: No limit
 EBW: No limit

6.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.2 °C Humidity: 45.5 % RH Atmospheric Pressure: 1010 mbar
 Test mode: 20: TX mode_Keep the EUT in transmitting mode

6.3.2 Test Setup Diagram



6.3.3 Measurement Data



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Band: 2					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1852.4	4.163	Pass
			1880	4.167	Pass
			1907.6	4.140	Pass
	HSDPA	Subtest 1	1852.4	4.151	Pass
			1880	4.165	Pass
			1907.6	4.160	Pass
	HSUPA	Subtest 1	1852.4	4.153	Pass
			1880	4.167	Pass
			1907.6	4.148	Pass

Band: 2					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1852.4	4.698	Pass
			1880	4.697	Pass
			1907.6	4.703	Pass
	HSDPA	Subtest 1	1852.4	4.706	Pass
			1880	4.713	Pass
			1907.6	4.705	Pass
	HSUPA	Subtest 1	1852.4	4.704	Pass
			1880	4.700	Pass
			1907.6	4.716	Pass

Band: 4					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1712.4	4.165	Pass
			1732.6	4.157	Pass
			1752.6	4.158	Pass
	HSDPA	Subtest 1	1712.4	4.152	Pass
			1732.6	4.176	Pass
			1752.6	4.151	Pass
	HSUPA	Subtest 1	1712.4	4.148	Pass
			1732.6	4.176	Pass
			1752.6	4.151	Pass



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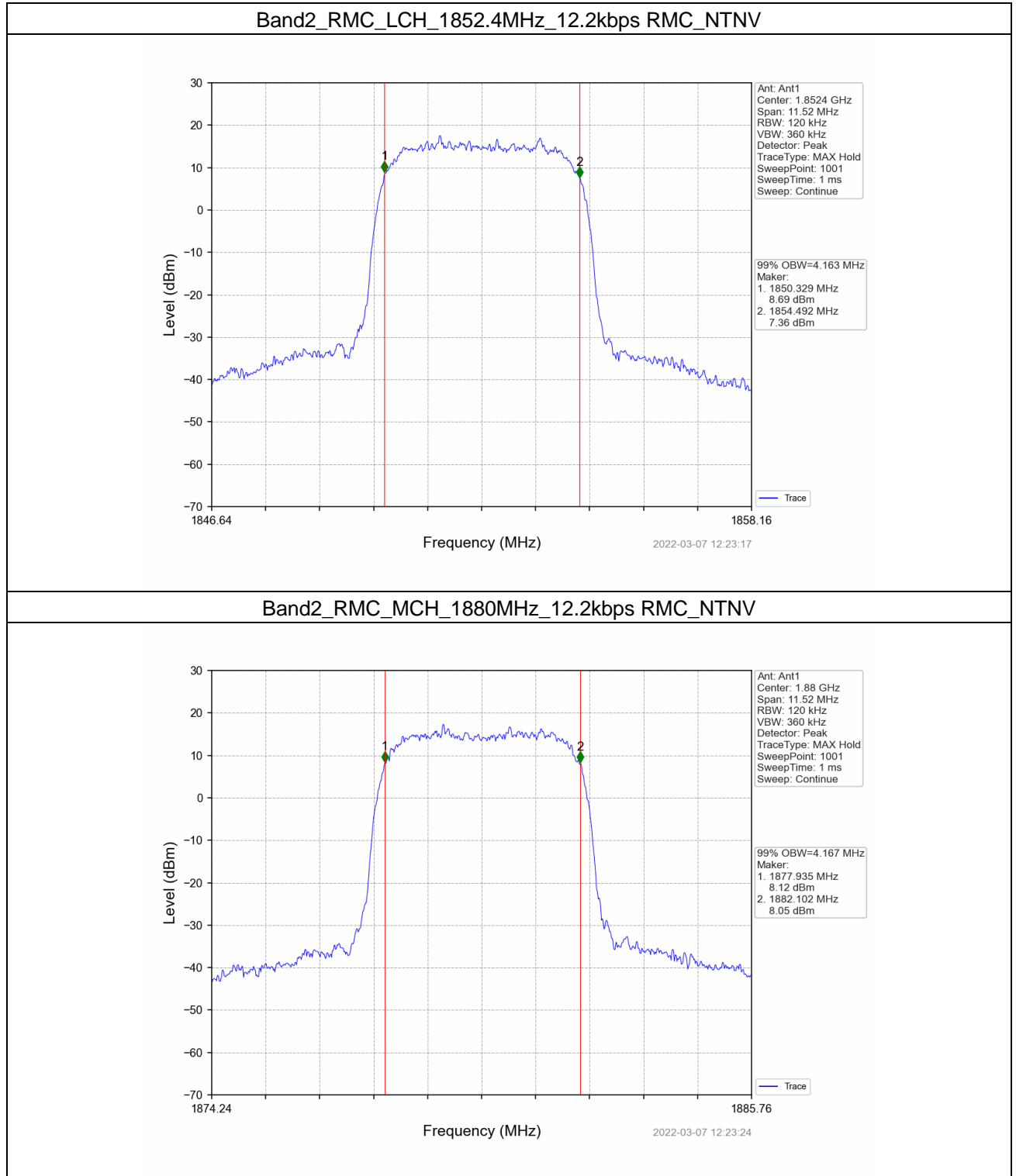
Band: 4					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	1712.4	4.705	Pass
			1732.6	4.697	Pass
			1752.6	4.679	Pass
	HSDPA	Subtest 1	1712.4	4.747	Pass
			1732.6	4.714	Pass
			1752.6	4.725	Pass
	HSUPA	Subtest 1	1712.4	4.707	Pass
			1732.6	4.713	Pass
			1752.6	4.702	Pass

Band: 5					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	826.4	4.163	Pass
			836.6	4.157	Pass
			846.6	4.162	Pass
	HSDPA	Subtest 1	826.4	4.161	Pass
			836.6	4.157	Pass
			846.6	4.181	Pass
	HSUPA	Subtest 1	826.4	4.155	Pass
			836.6	4.158	Pass
			846.6	4.163	Pass

Band: 5					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	826.4	4.686	Pass
			836.6	4.706	Pass
			846.6	4.710	Pass
	HSDPA	Subtest 1	826.4	4.705	Pass
			836.6	4.697	Pass
			846.6	4.719	Pass
	HSUPA	Subtest 1	826.4	4.724	Pass
			836.6	4.723	Pass
			846.6	4.738	Pass

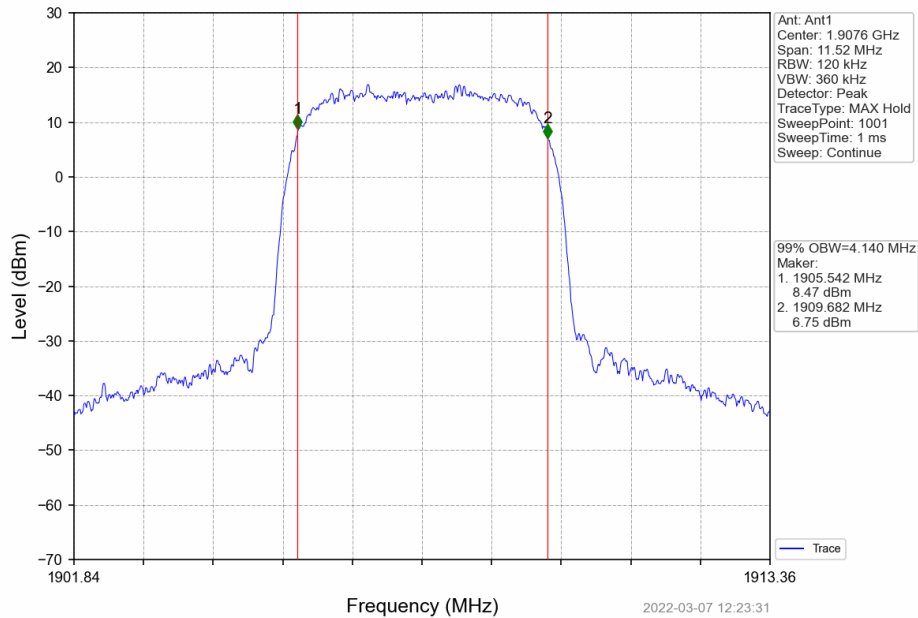


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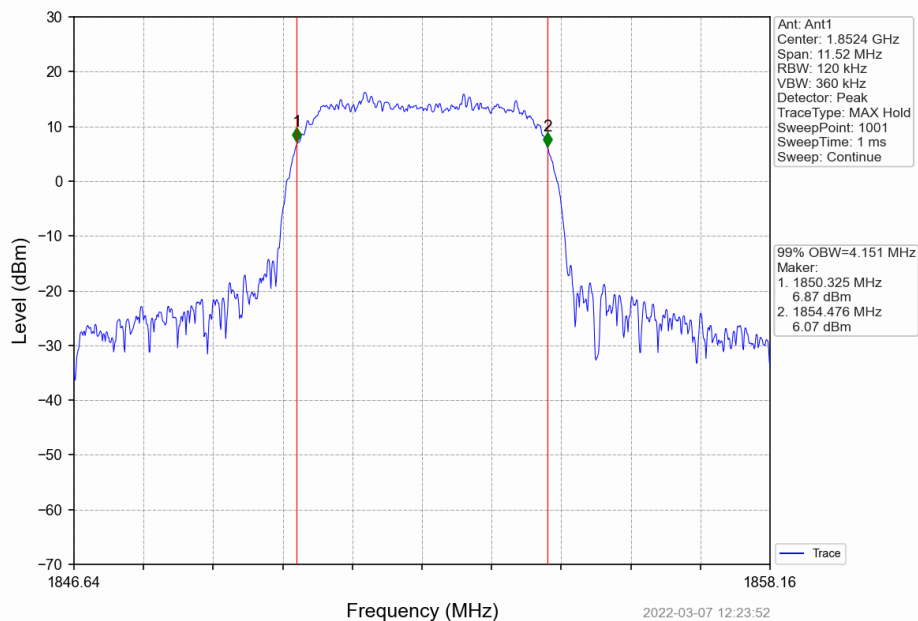


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Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV

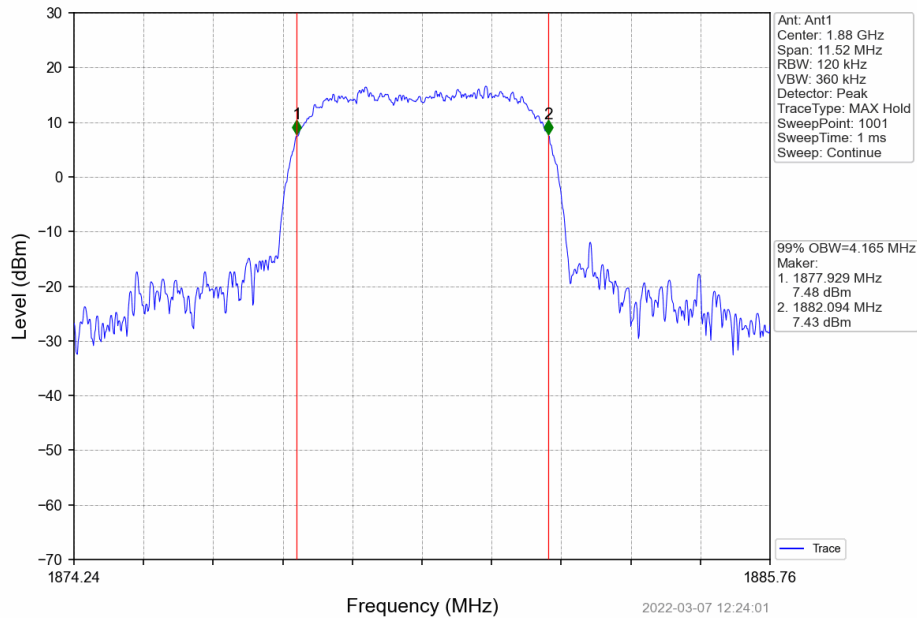


Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV

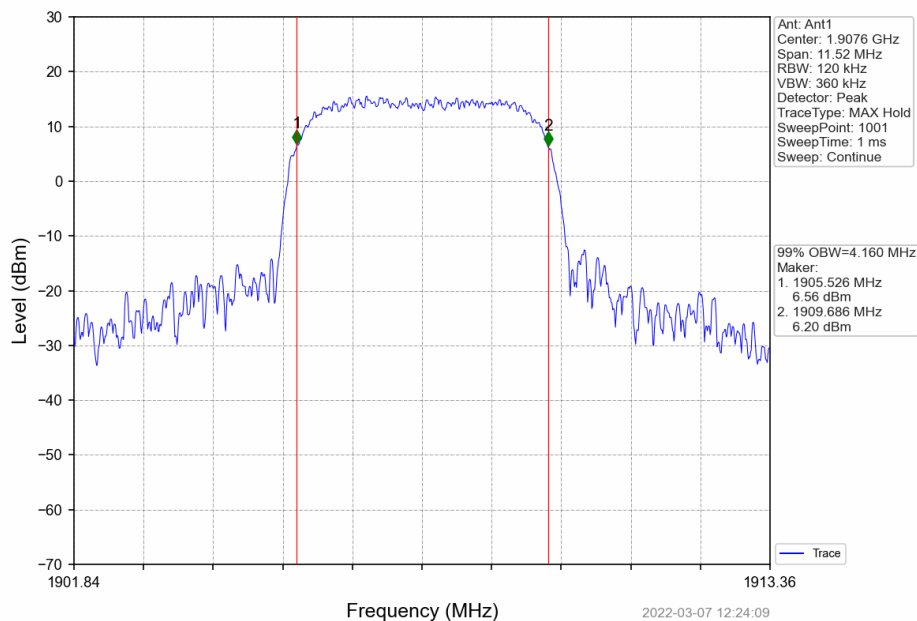


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Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV

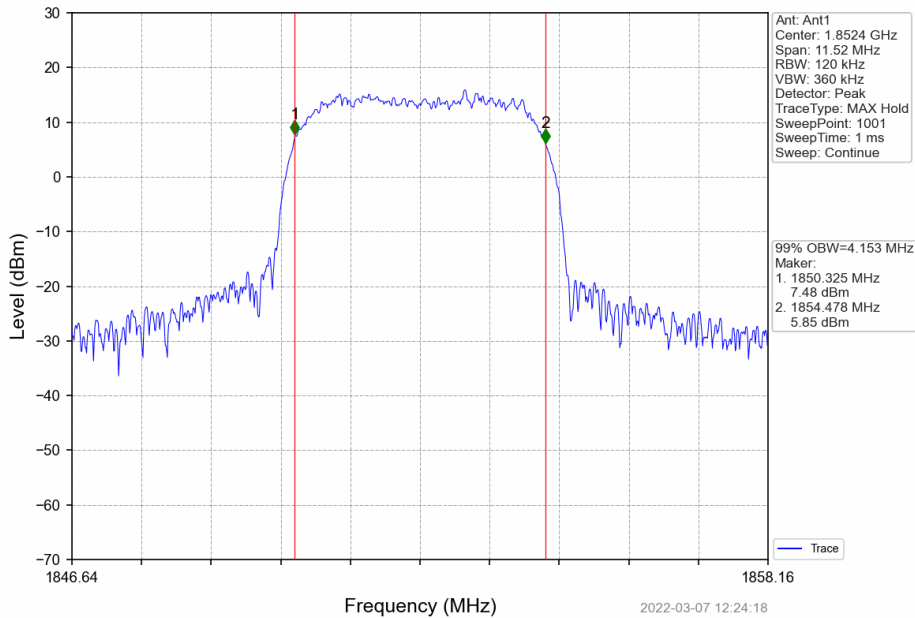


Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV

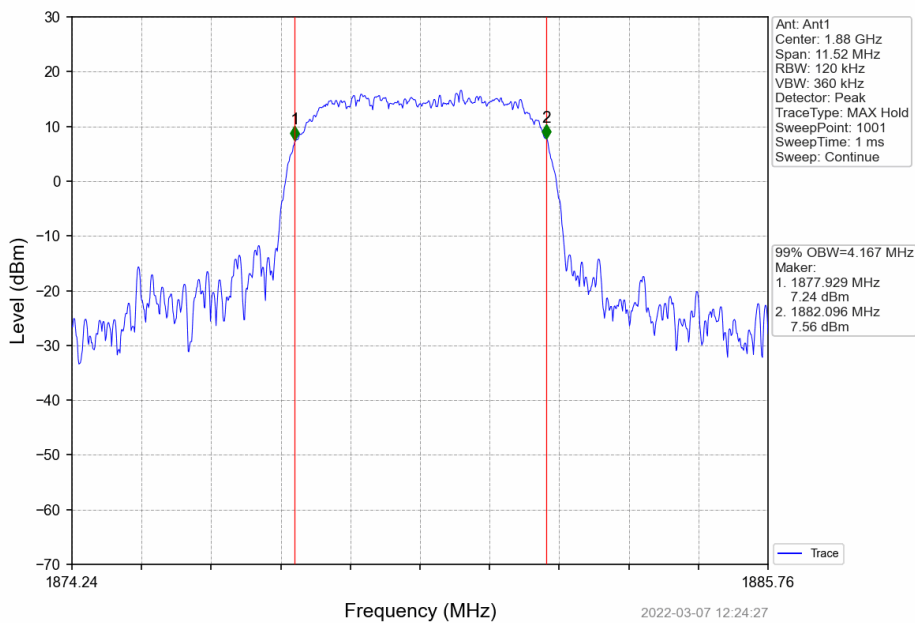


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Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV

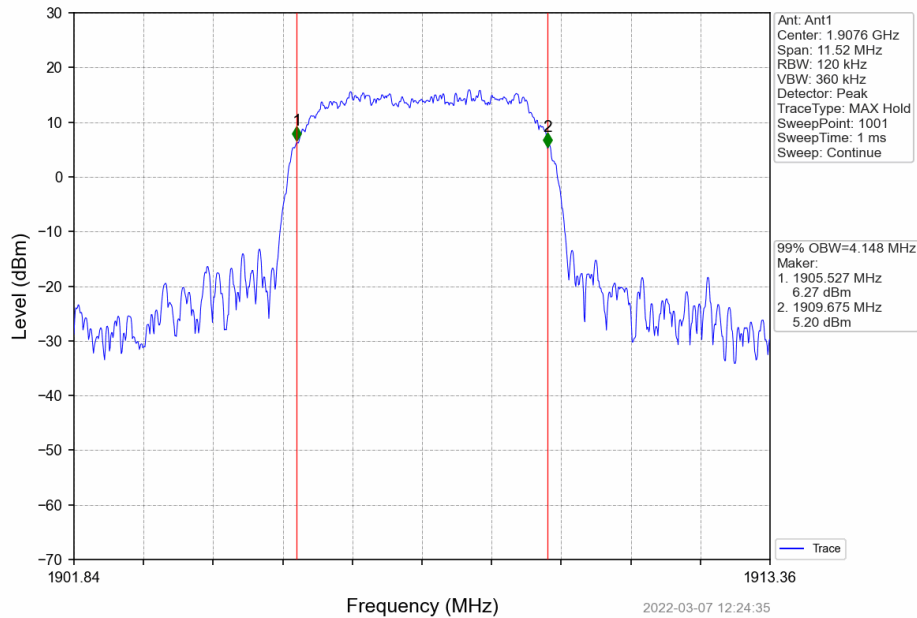


Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV

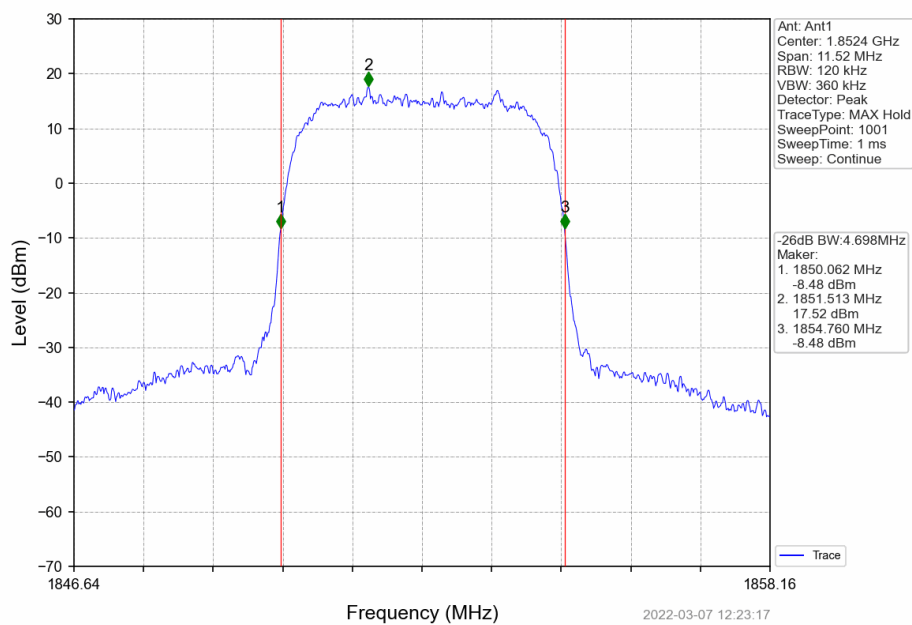


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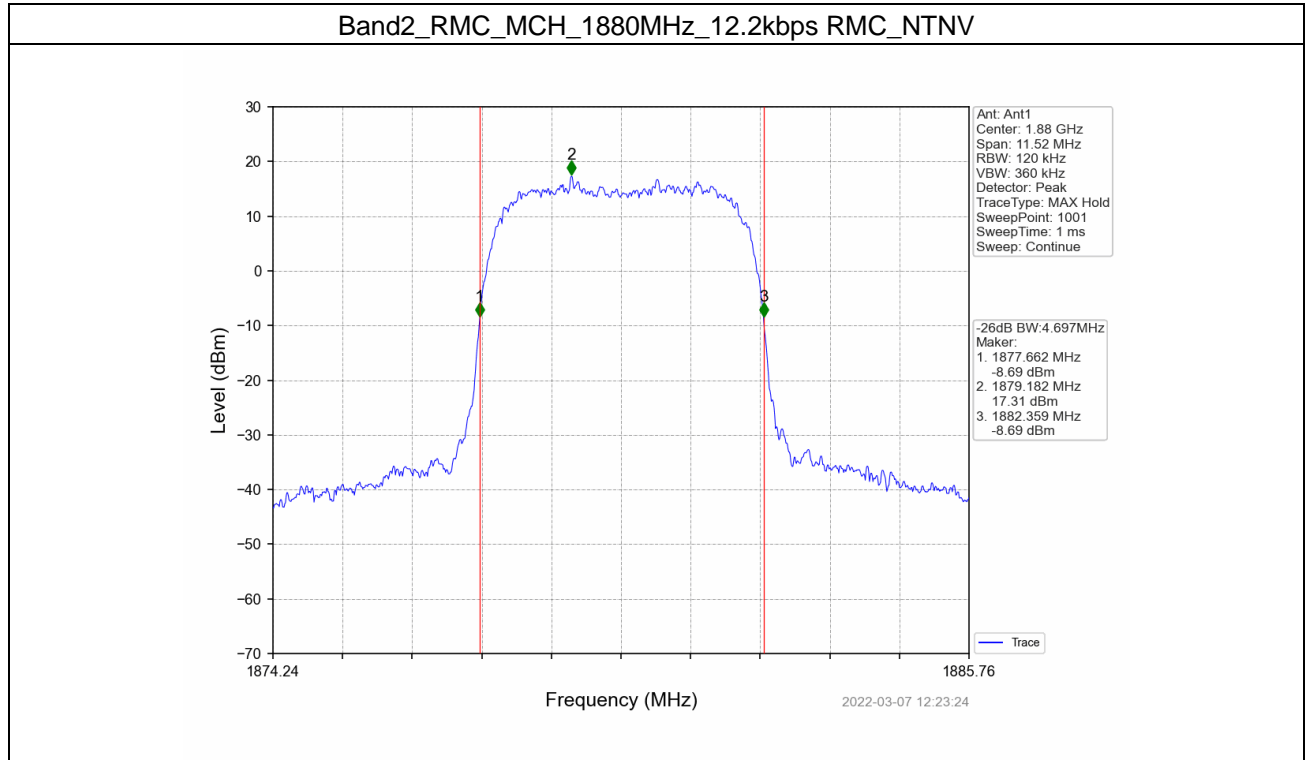
Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



Band2_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV

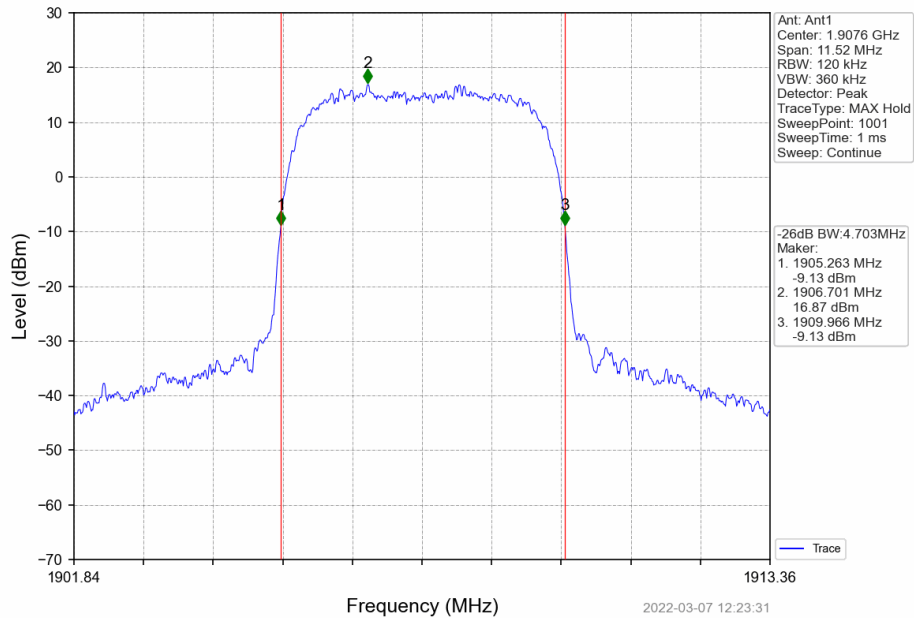


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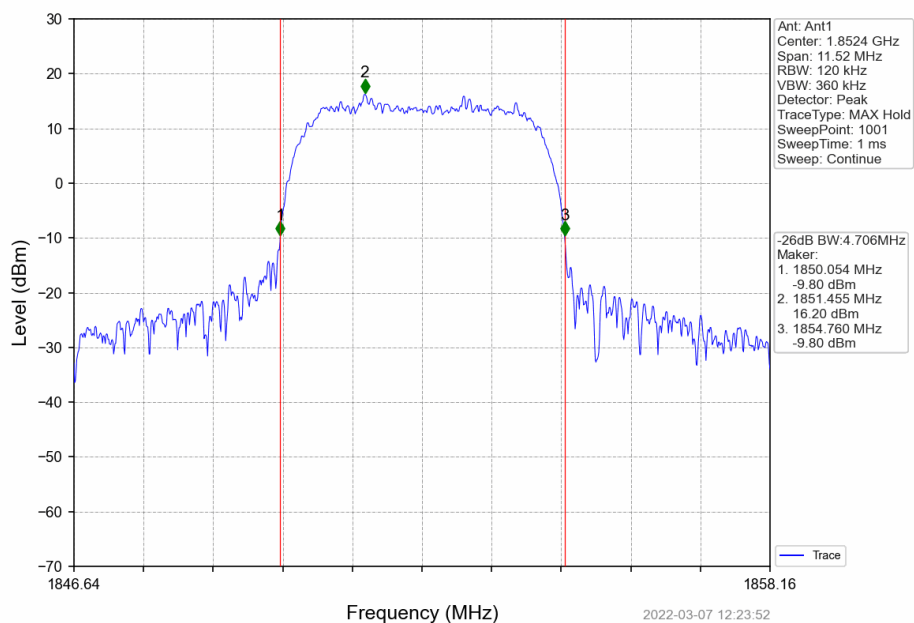


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Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV

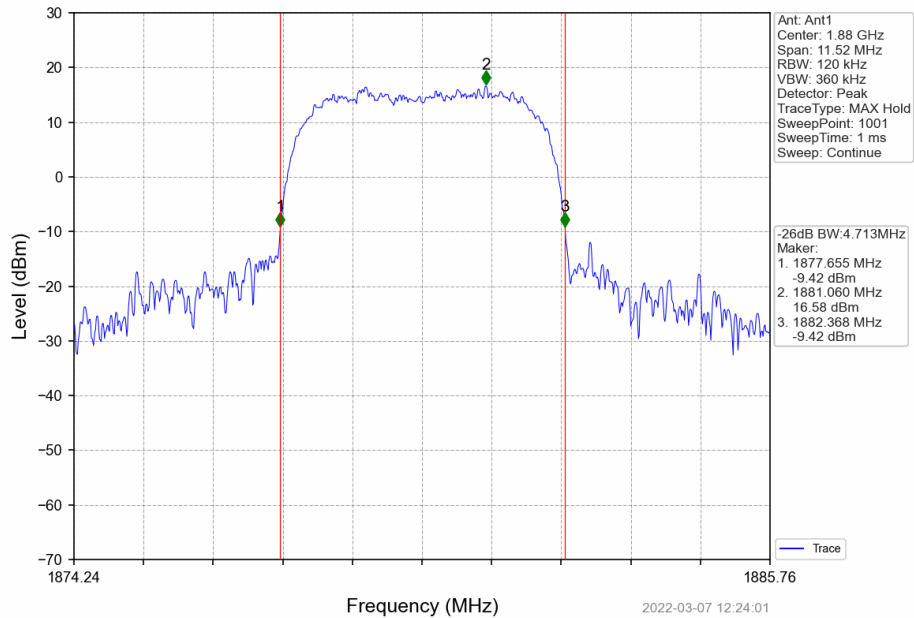


Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV

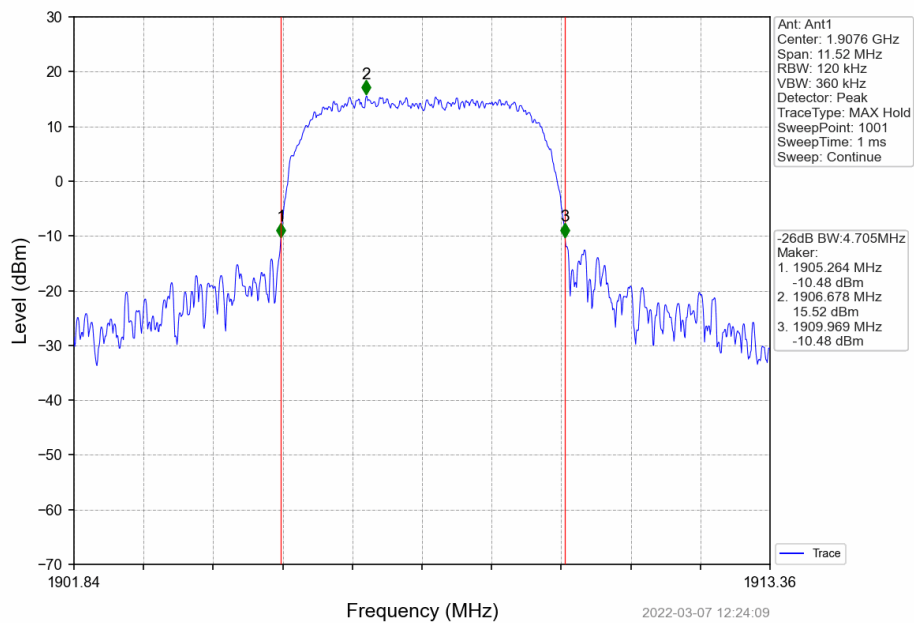


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Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV

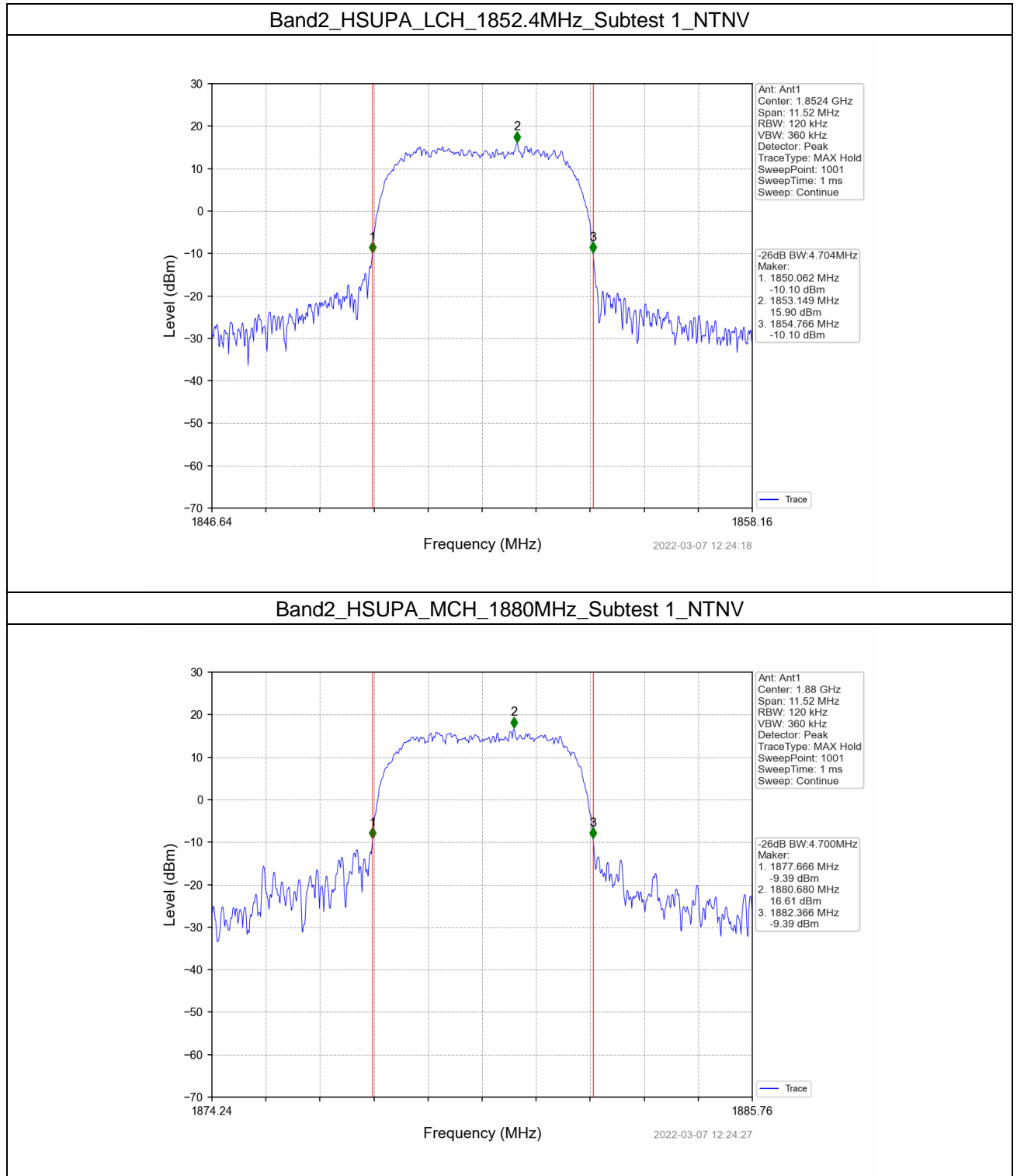


Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV



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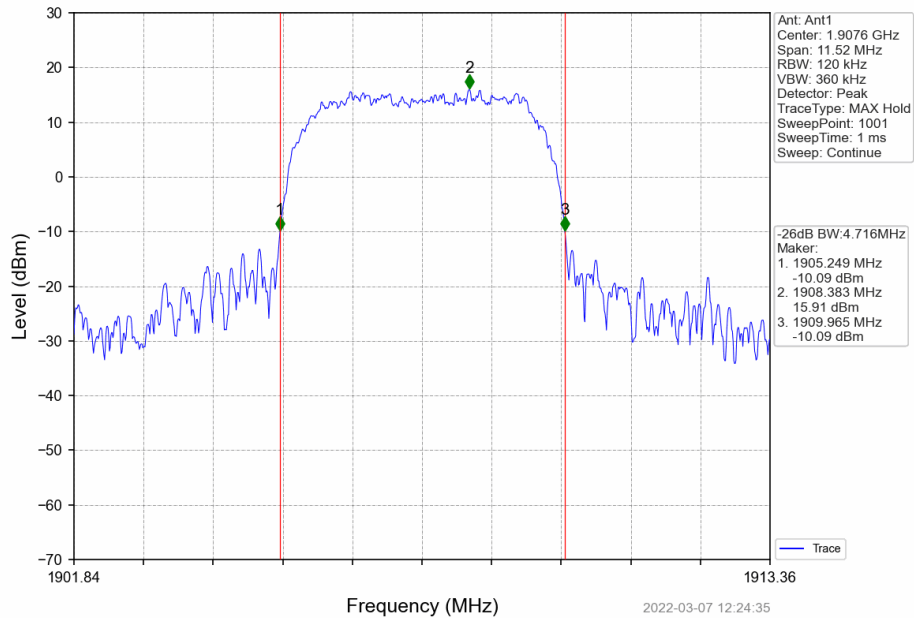
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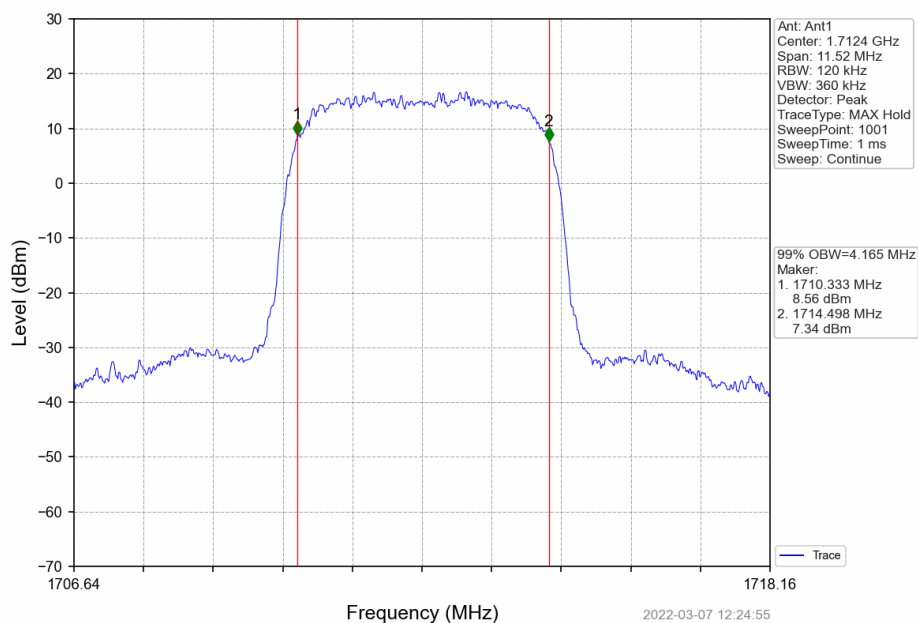
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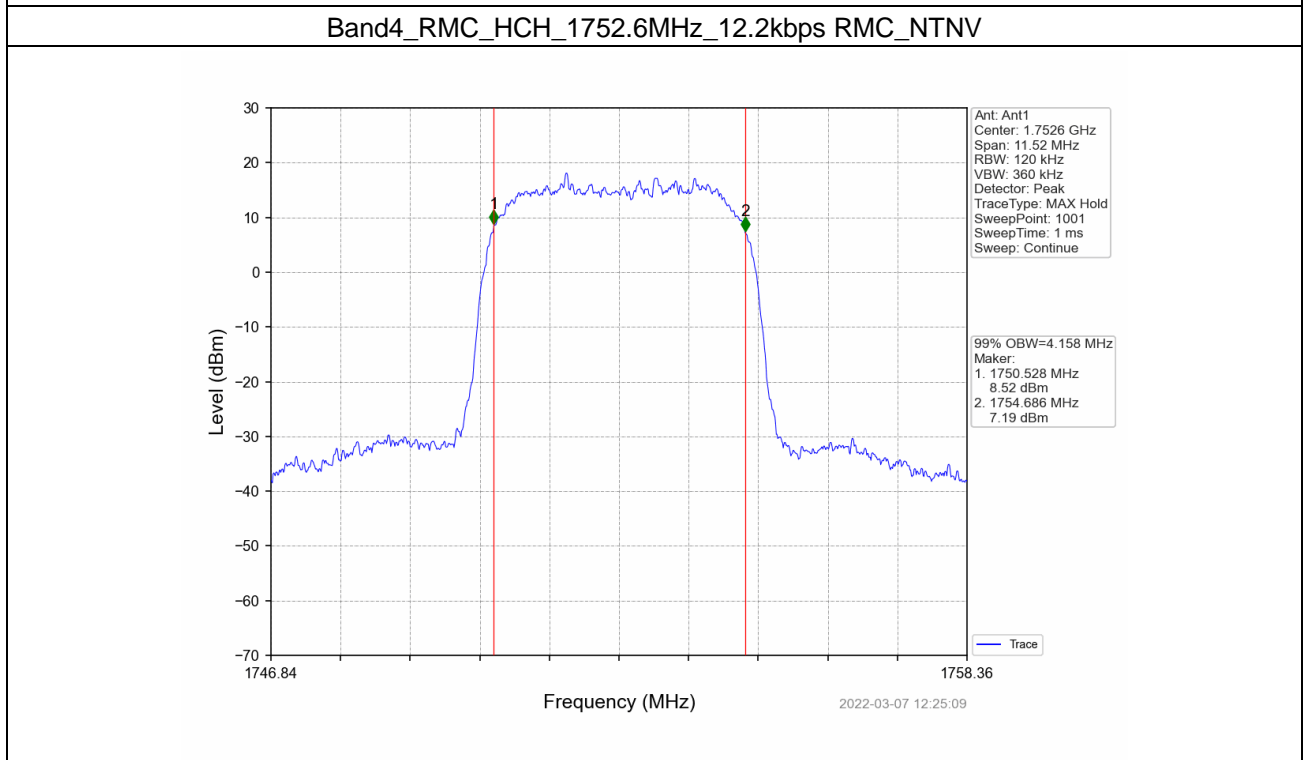
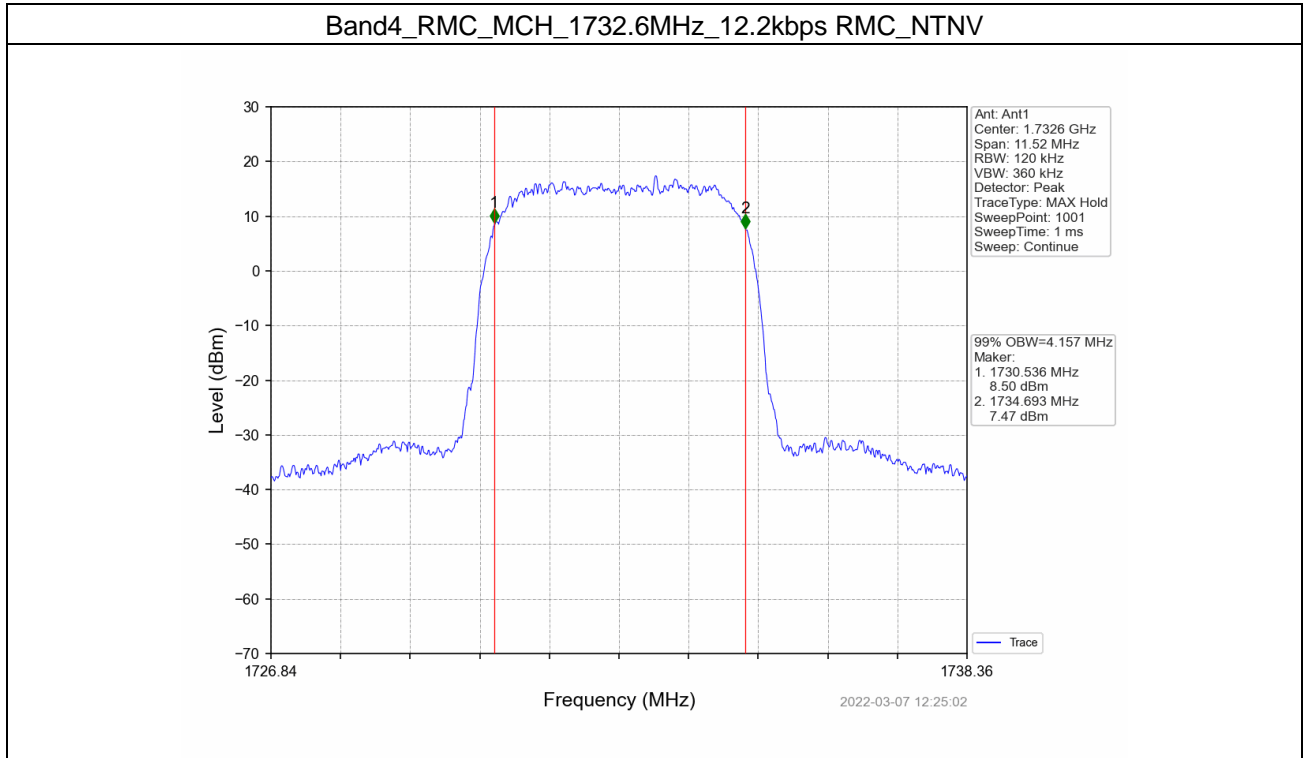
Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV

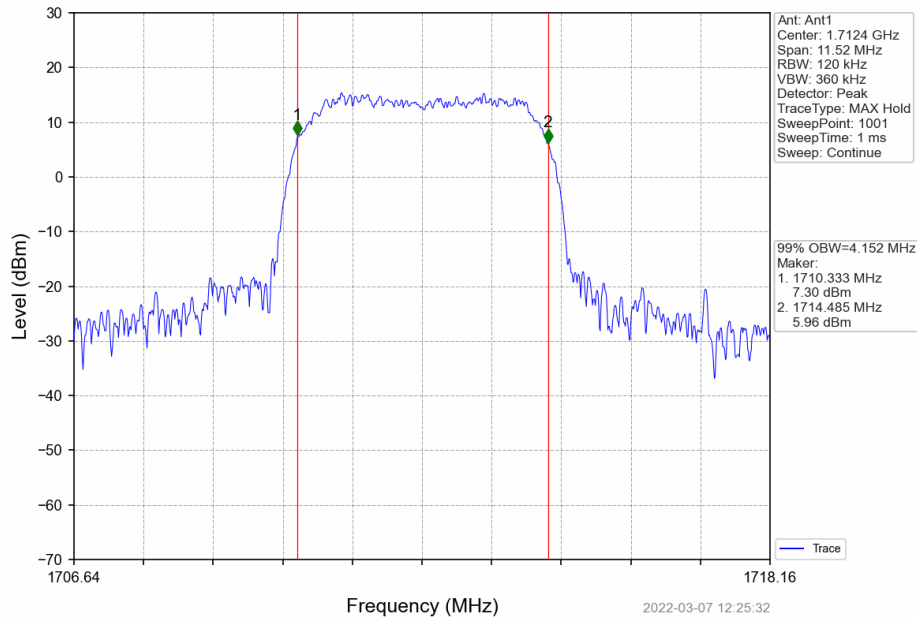


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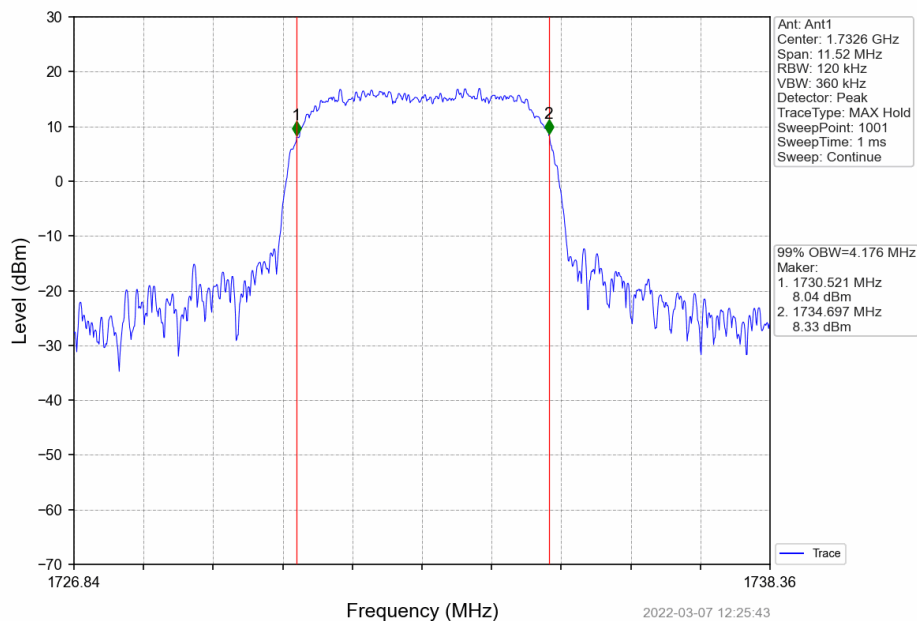


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Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



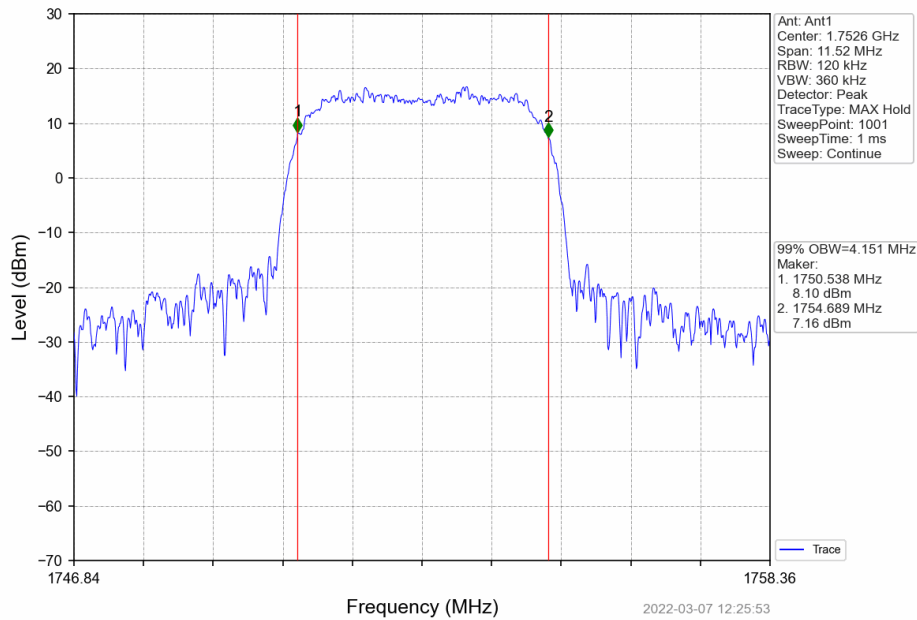
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



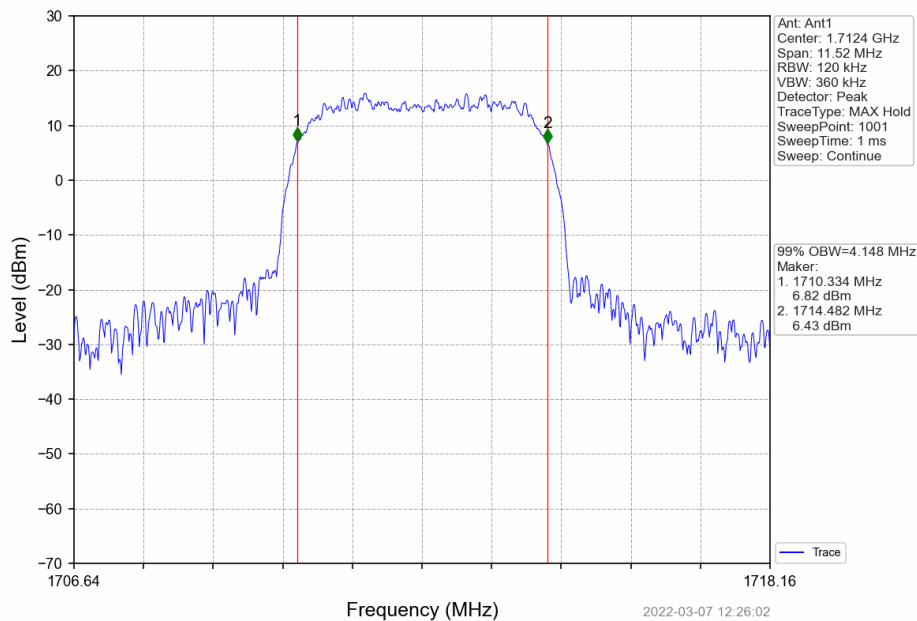
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Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV

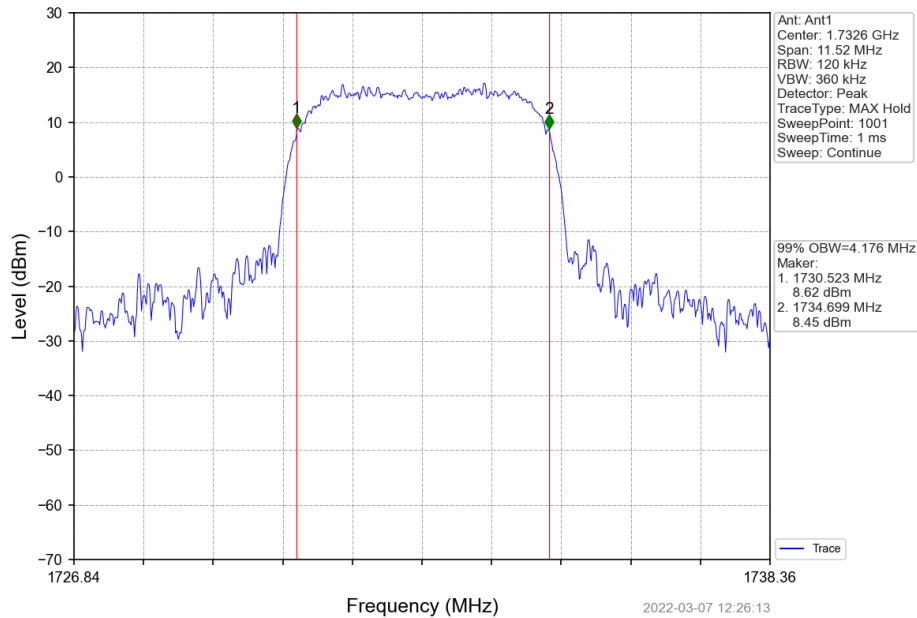


Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV

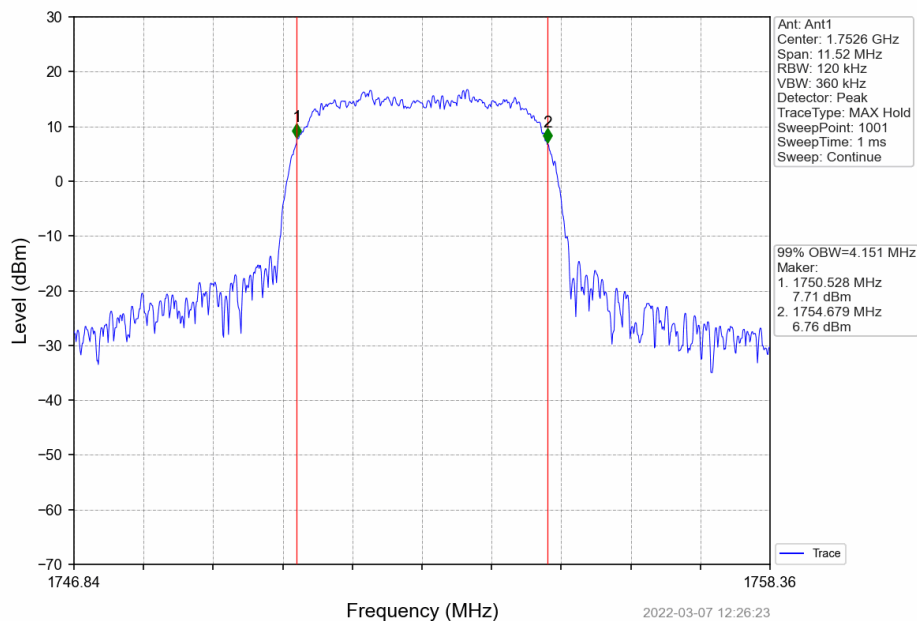


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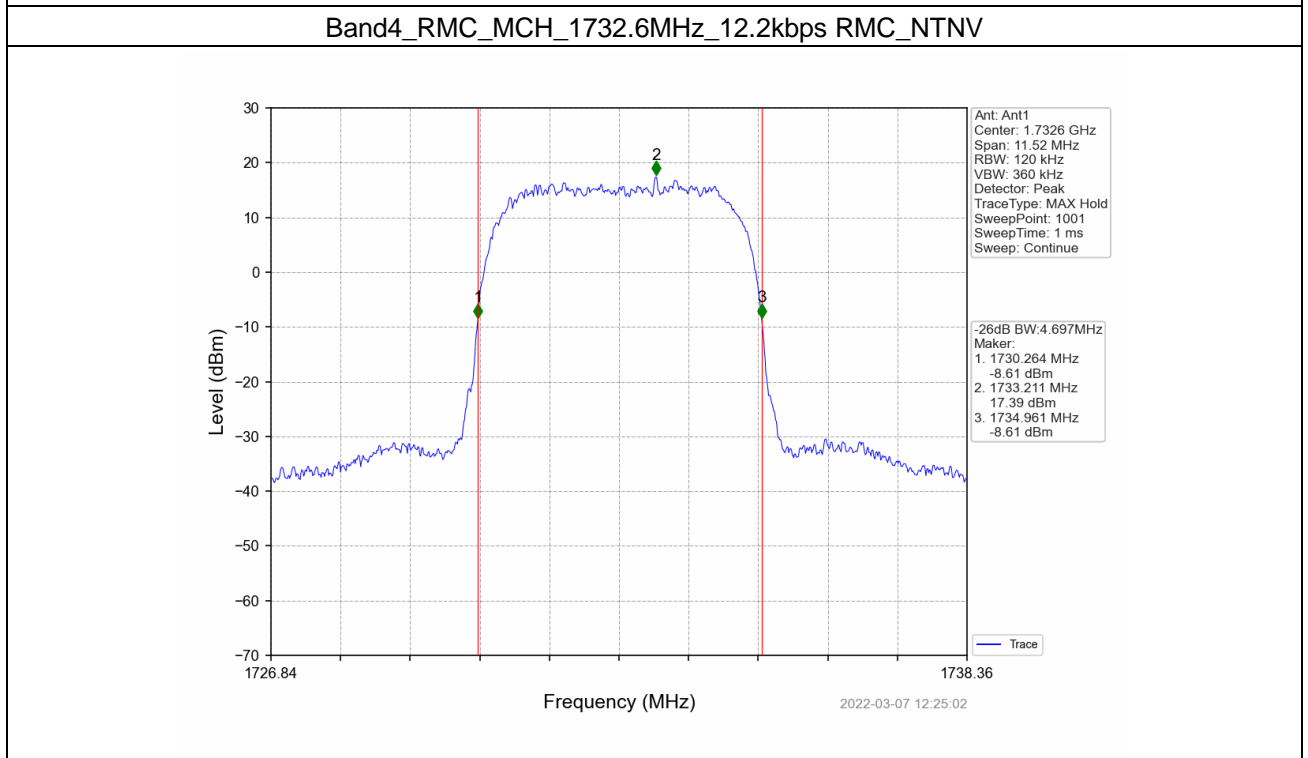
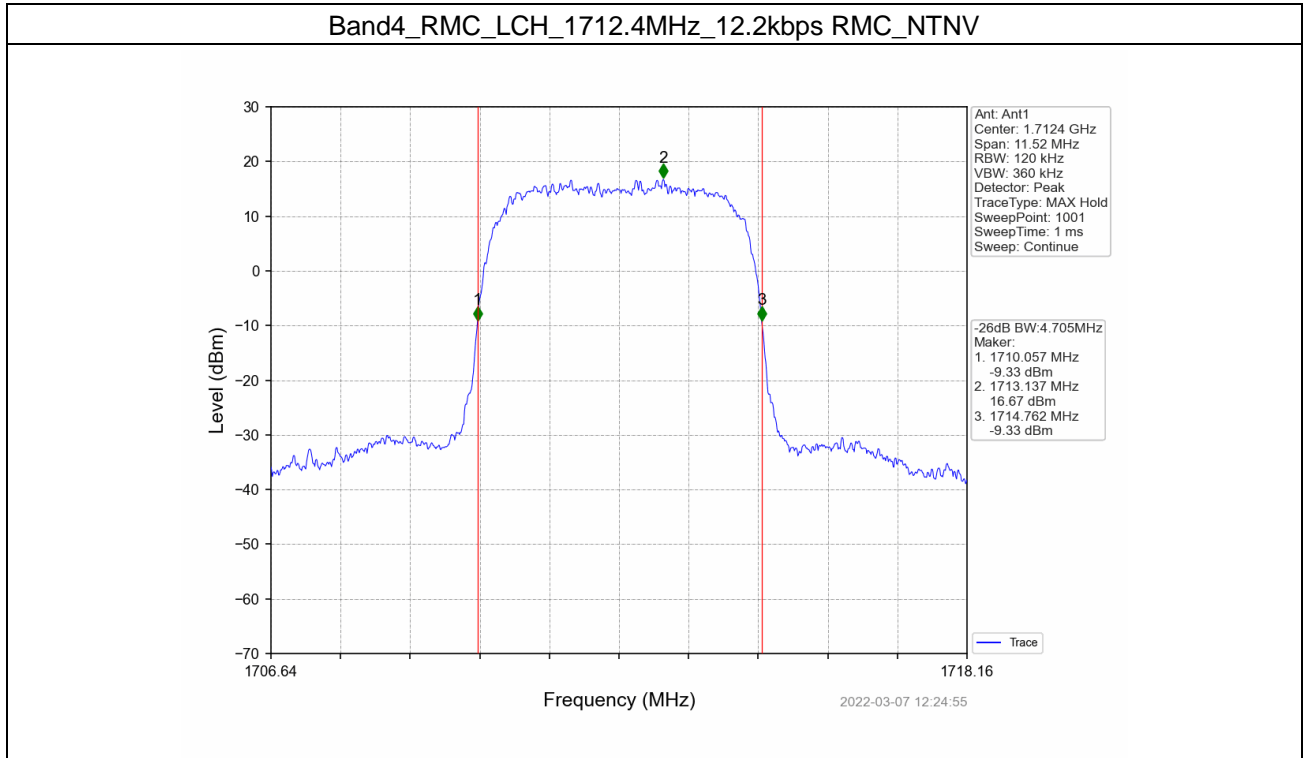
Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV

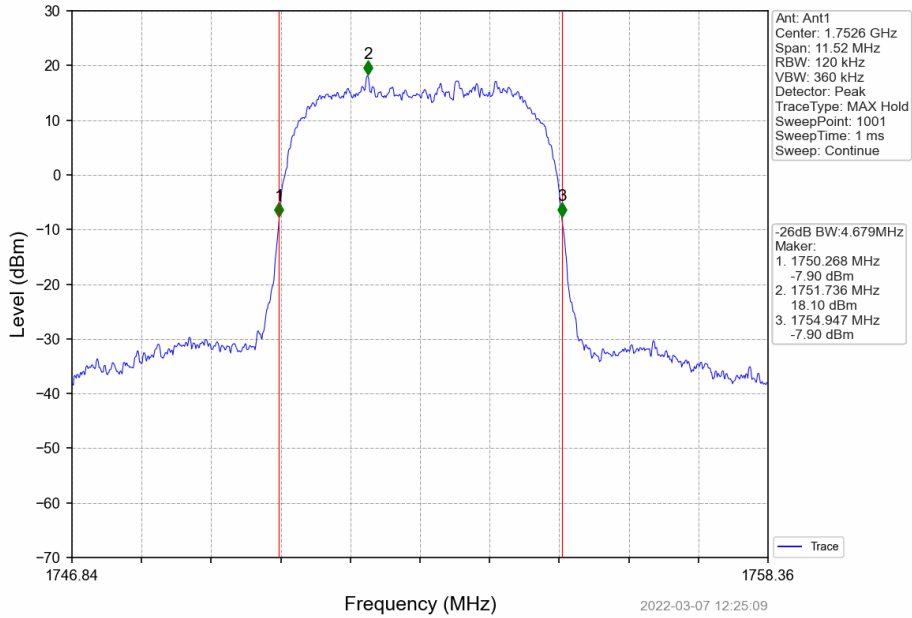


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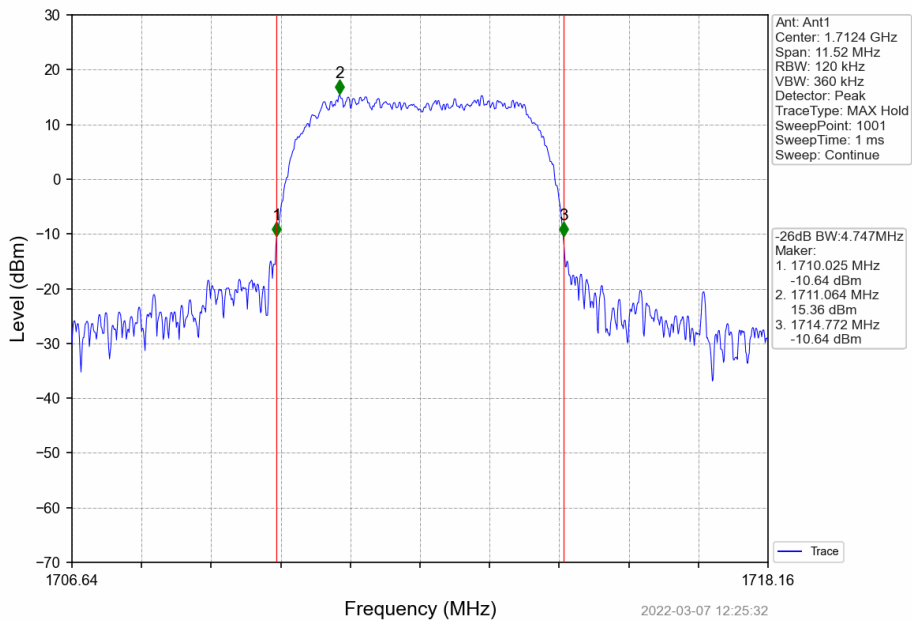


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Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV

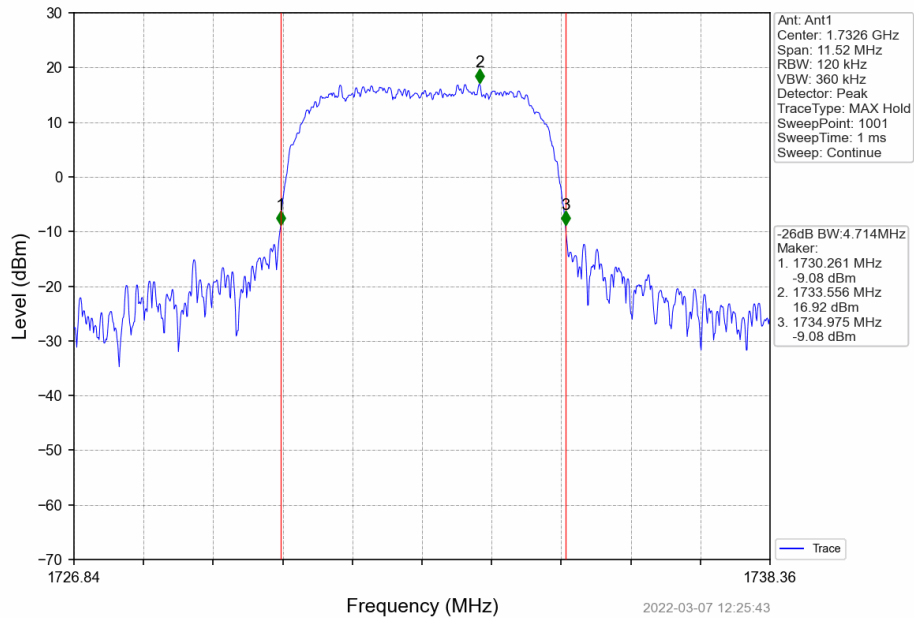


Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV

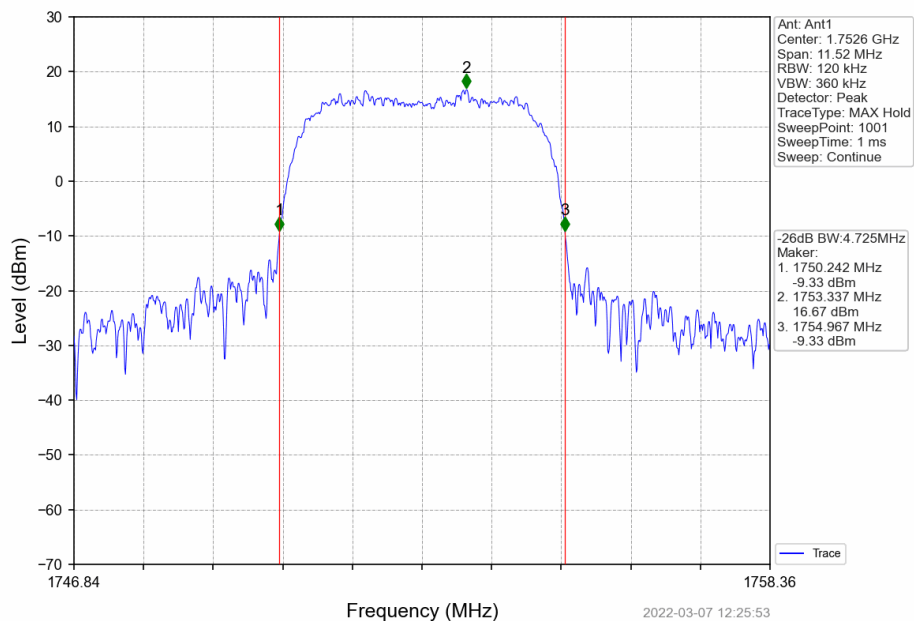


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Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



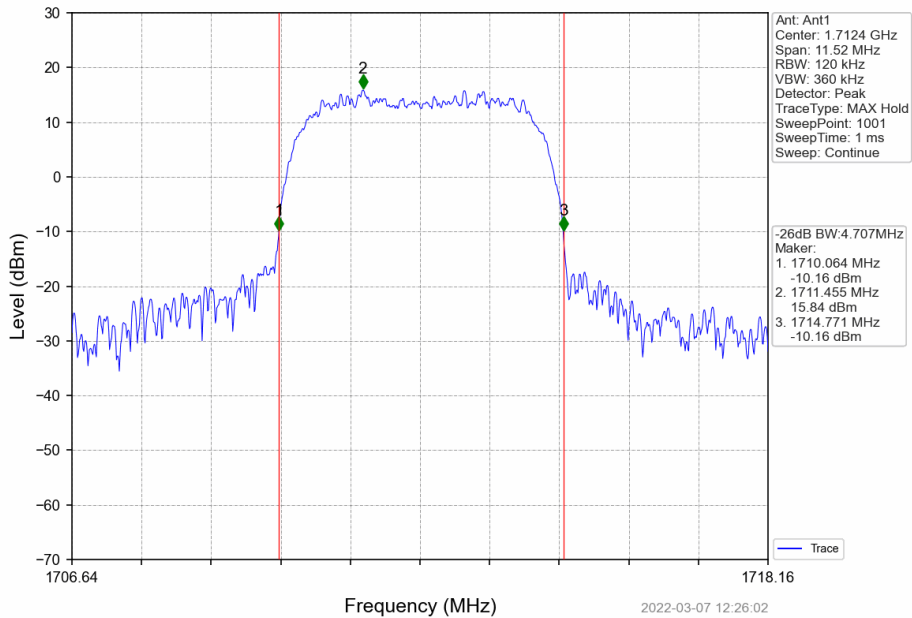
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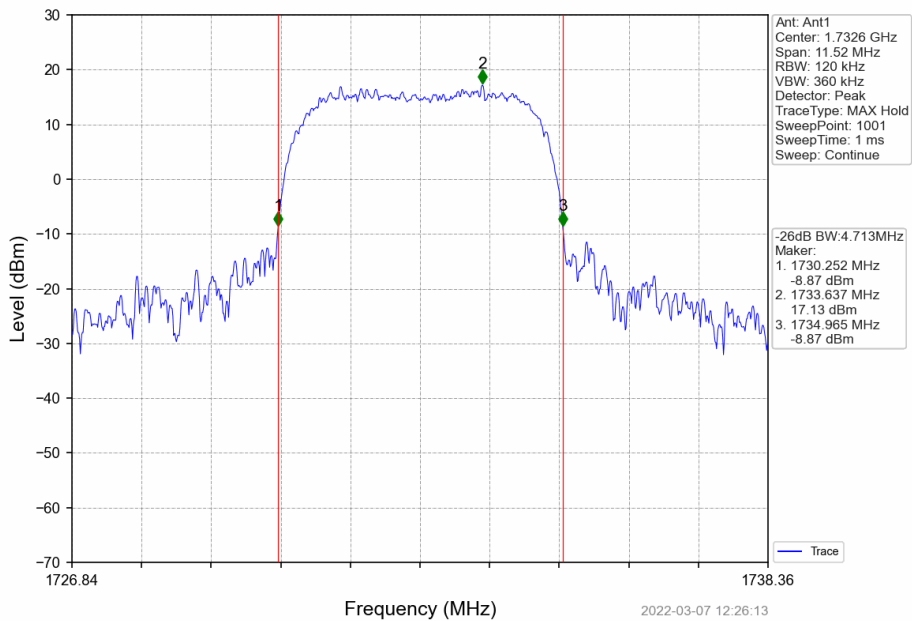
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Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV

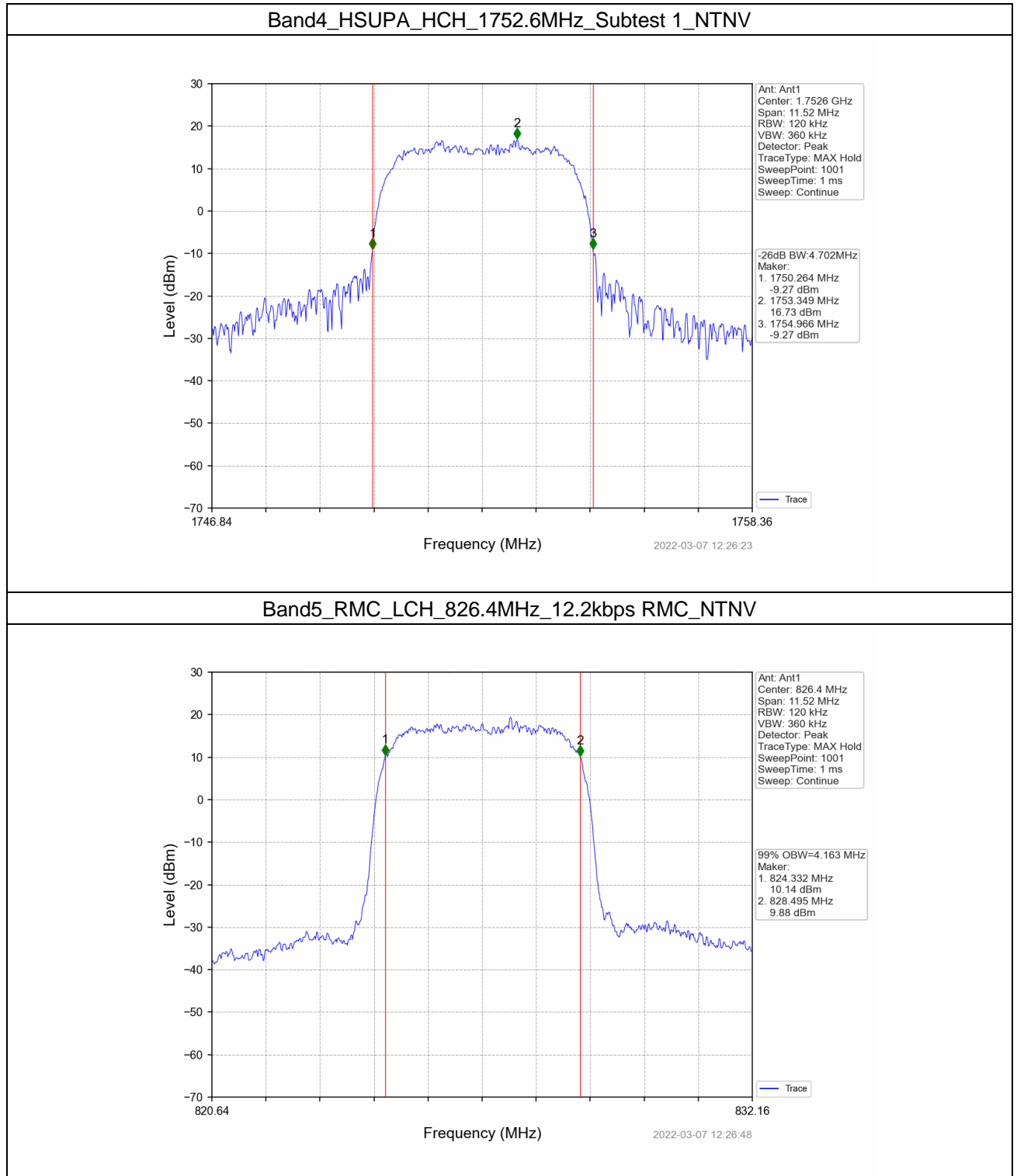


Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV

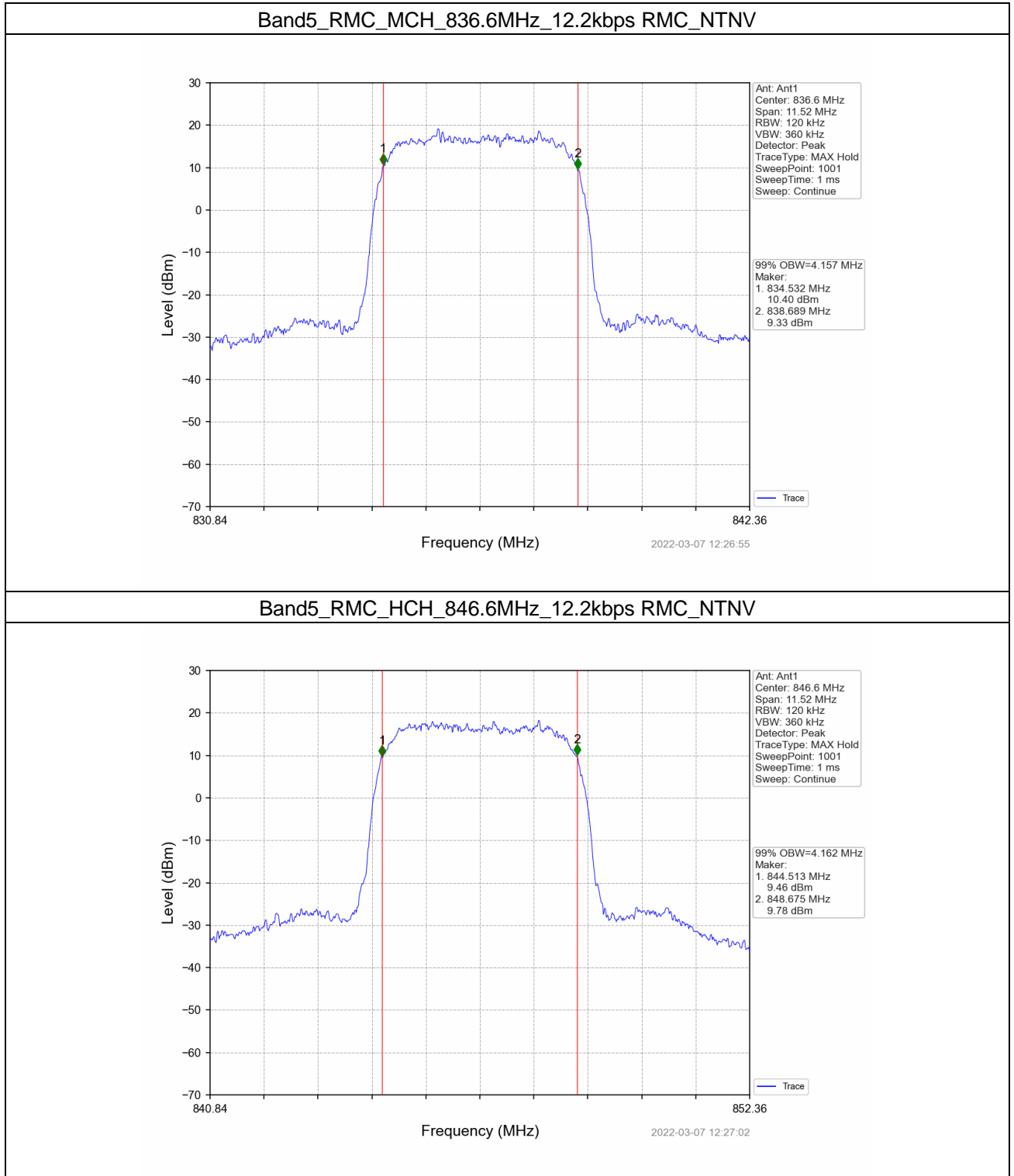


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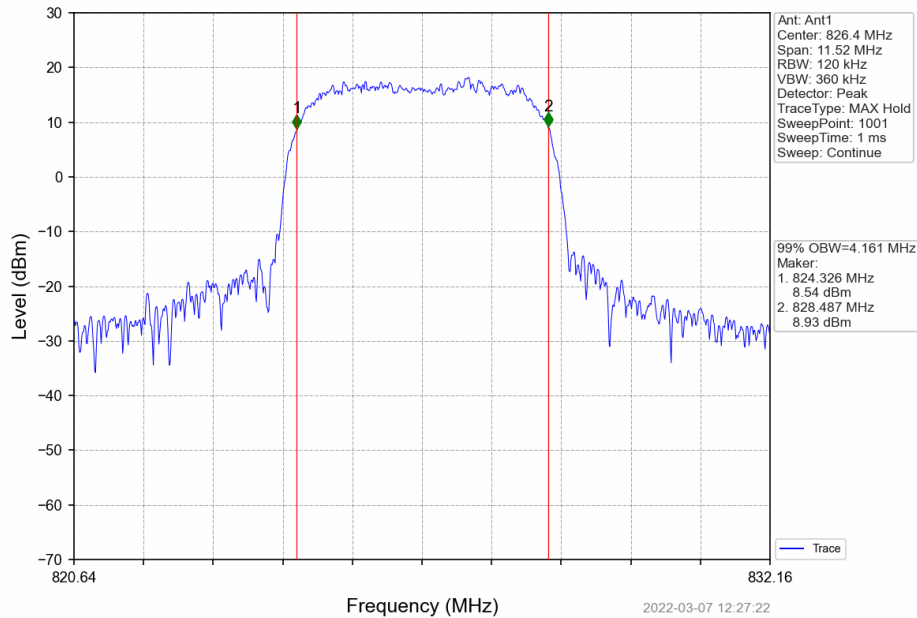


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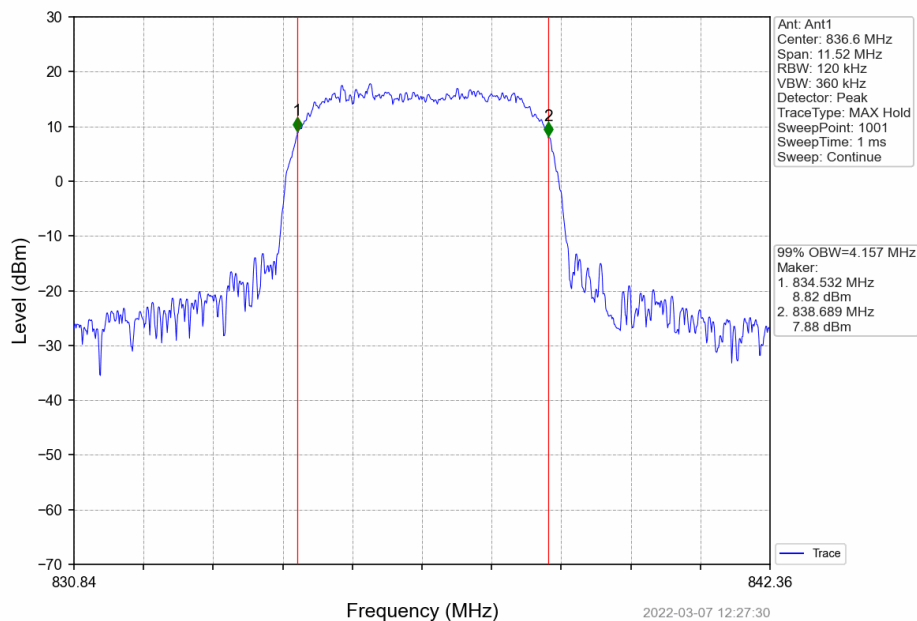
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Guangzhou Branch Testing Center, EEC Laboratory. | 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV



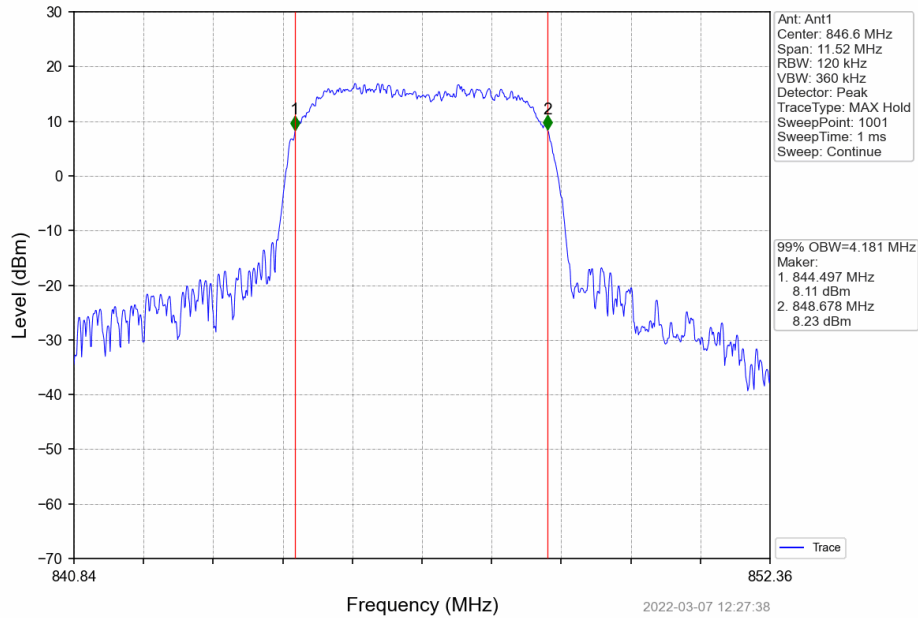
Band5_HSDPA_MCH_836.6MHz_Subtest 1_NTNV



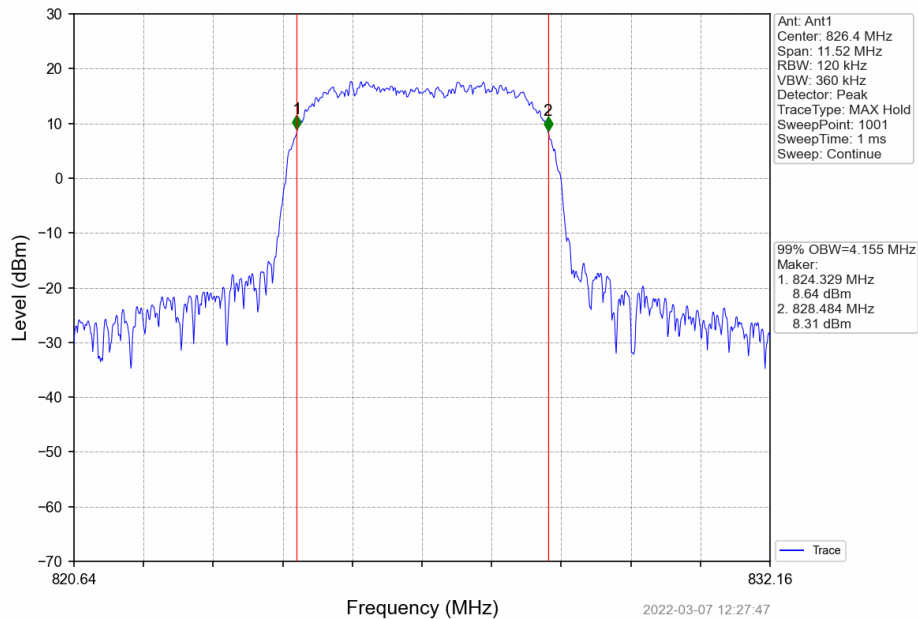
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Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV



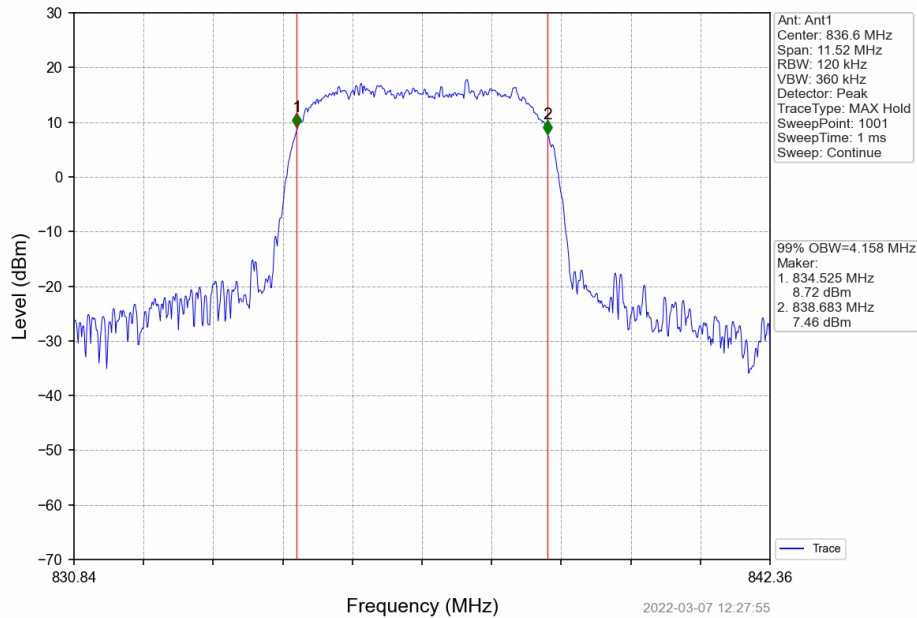
Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV



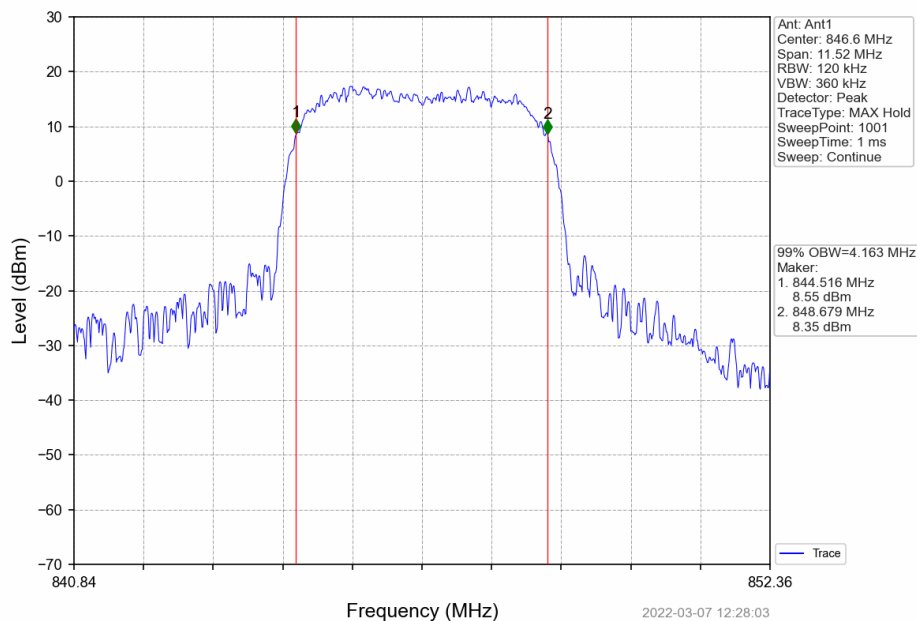
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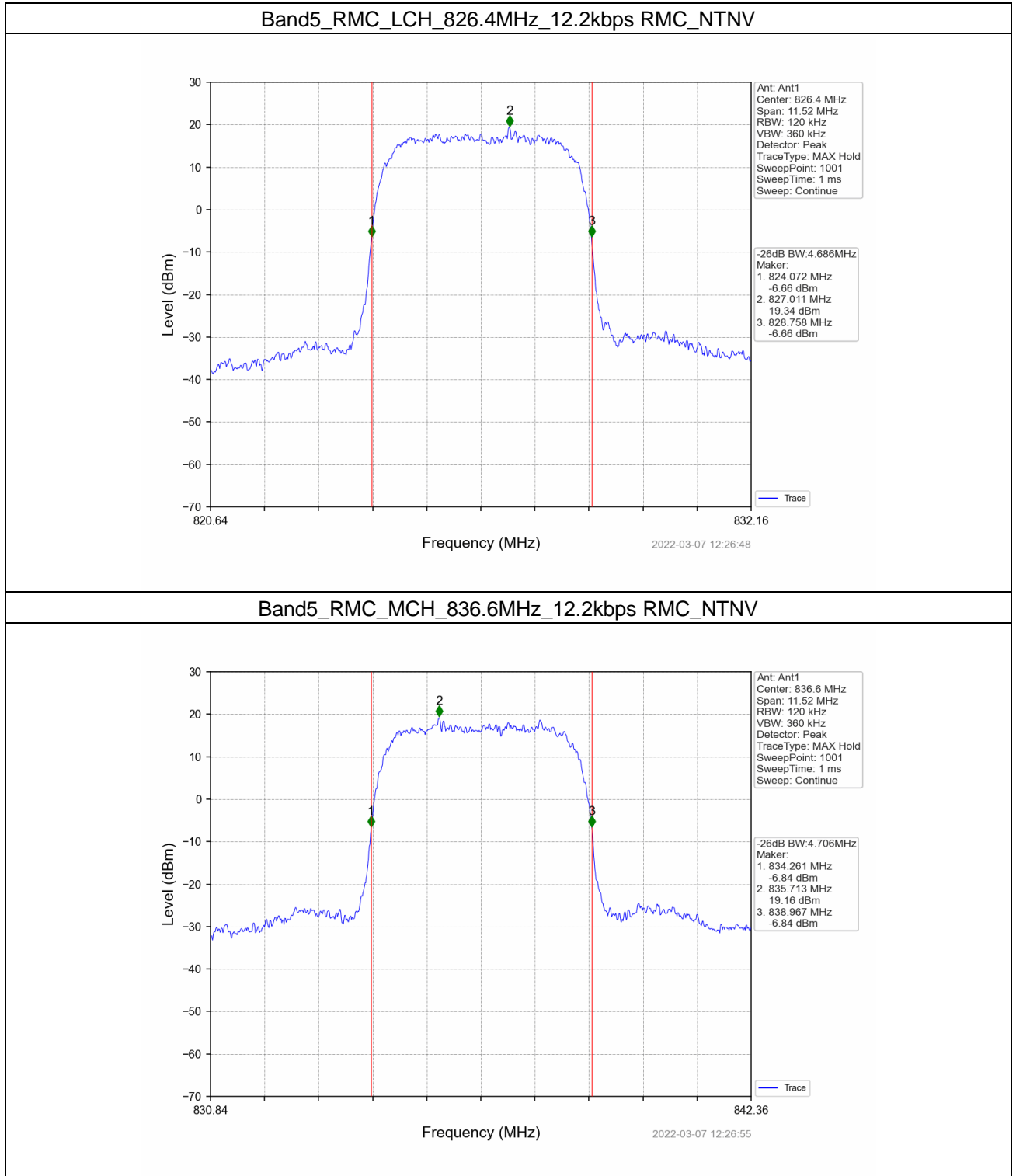
Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV



Band5_HSUPA_HCH_846.6MHz_Subtest 1_NTNV

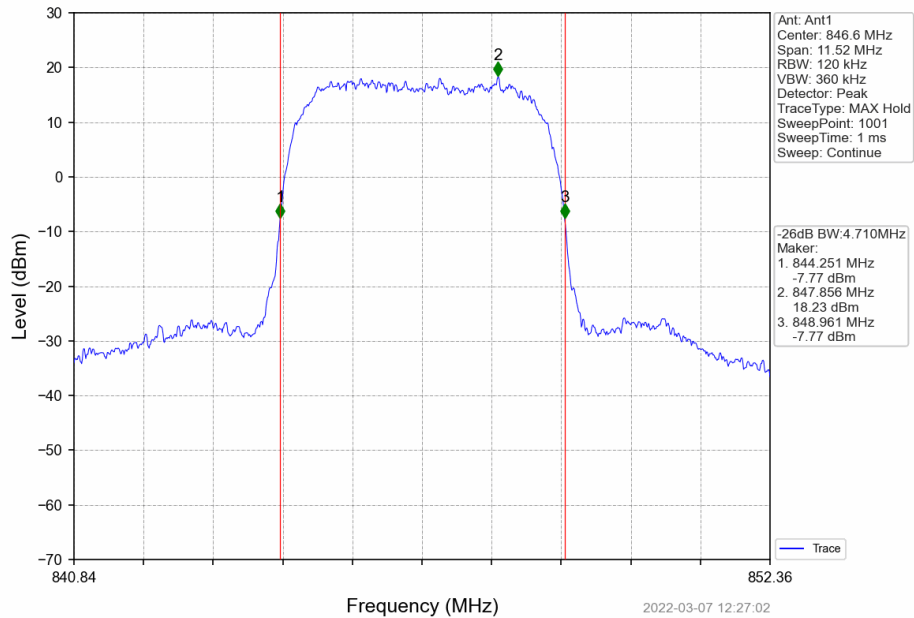


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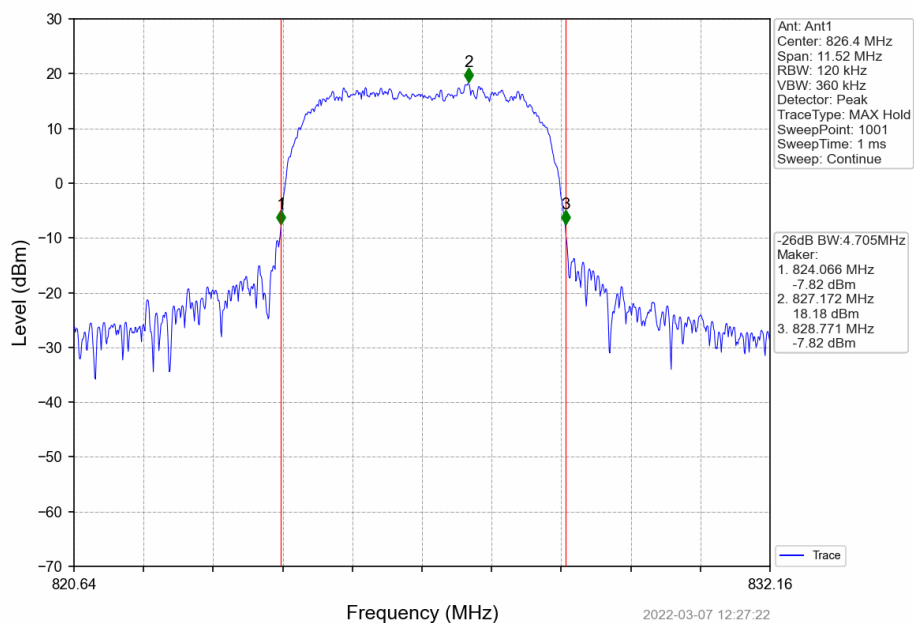


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Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV

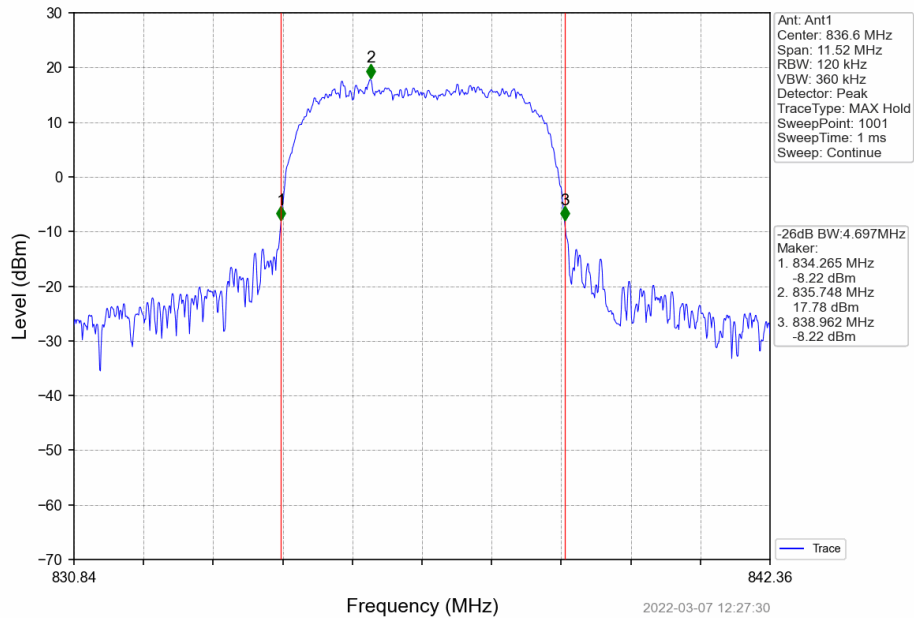


Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV

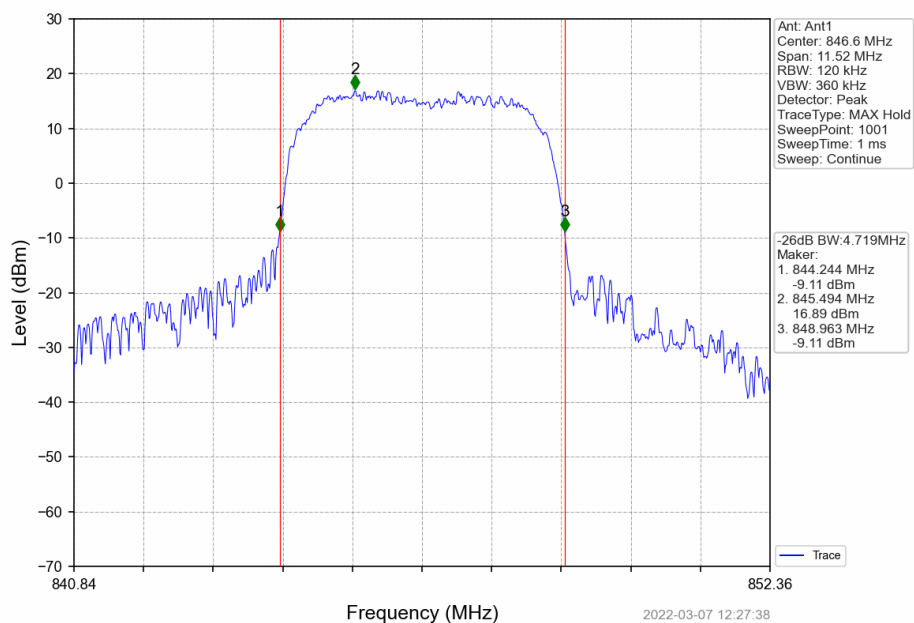


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Band5_HSDPA_MCH_836.6MHz_Subtest 1_NTNV



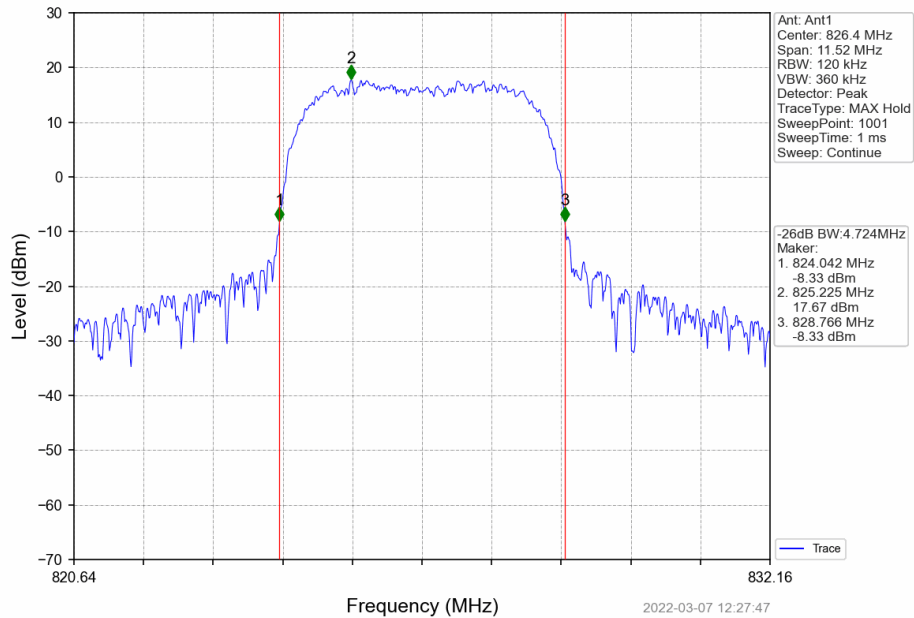
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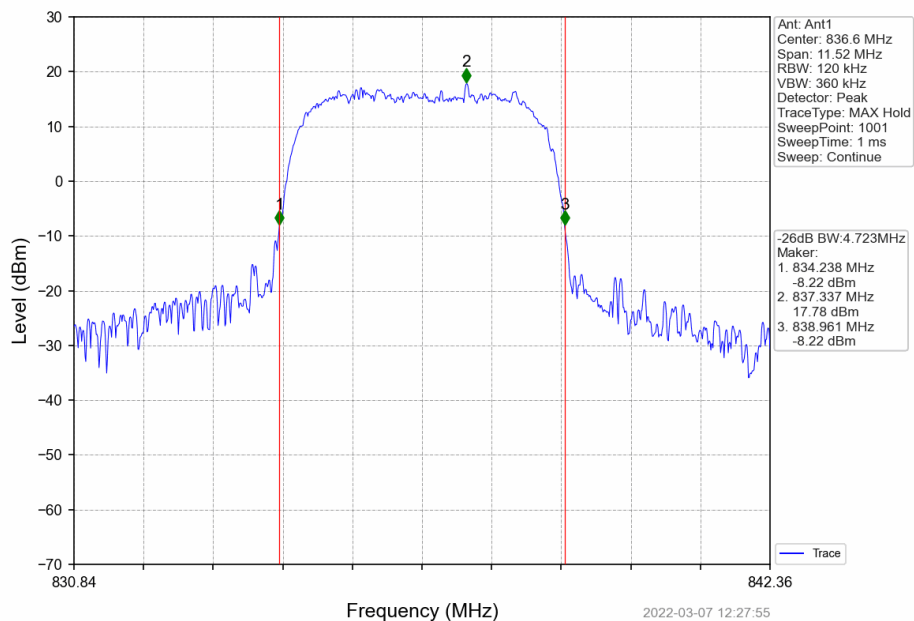
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Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV

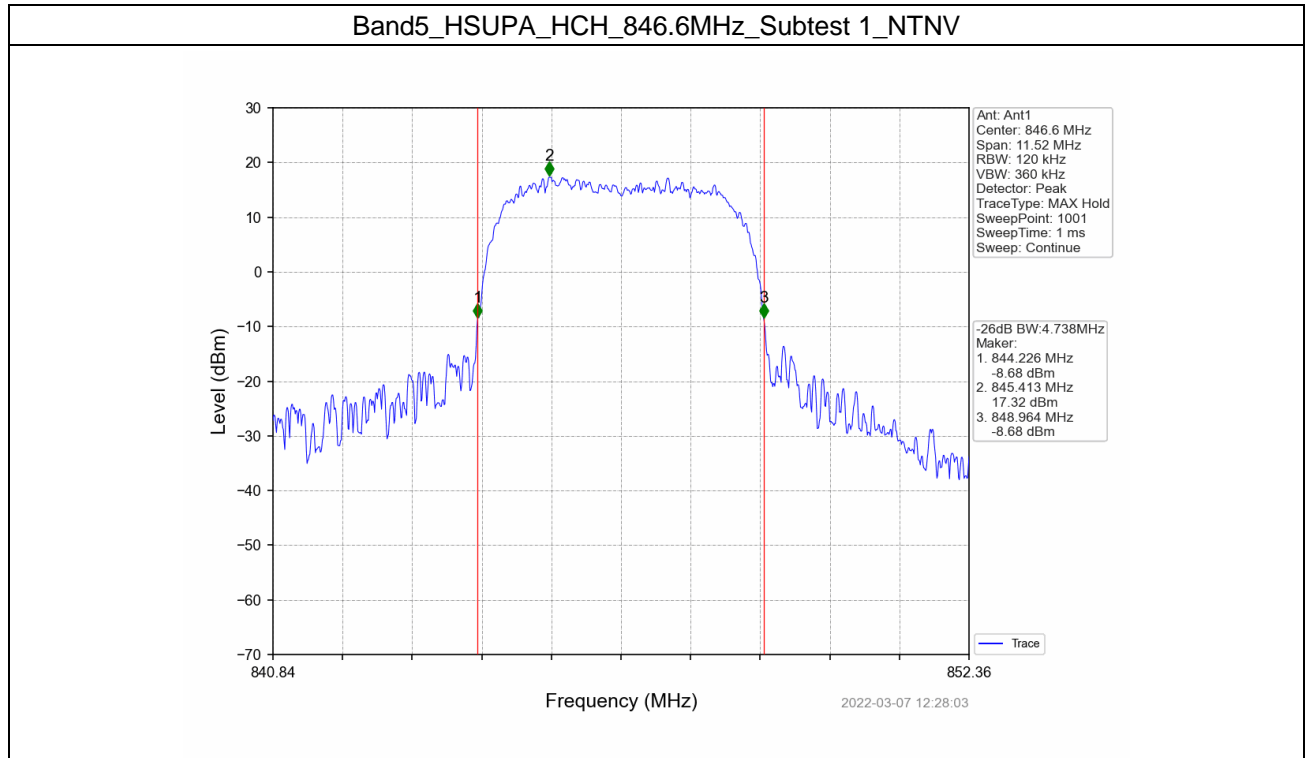


Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV



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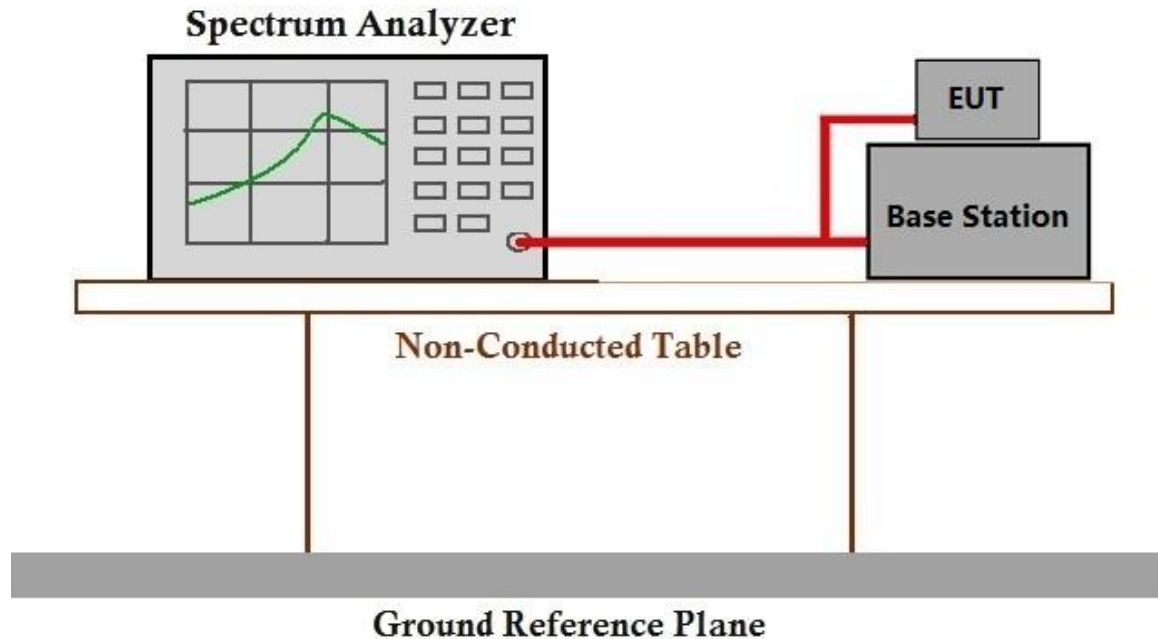
6.4 Band Edge Compliance

Test Requirement: §2.1051, §22.917, §24.238, §27.53(h)
 Test Method: ANSI C63.26, KDB 971168 D01 v03
 Limit: $\leq -13\text{dBm}/1\% \cdot \text{EBW}$, in 1 MHz bands immediately outside and adjacent to the frequency block.

6.4.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.2 °C Humidity: 45.5 % RH Atmospheric Pressure: 1010 mbar
 Test mode: 20: TX mode_Keep the EUT in transmitting mode

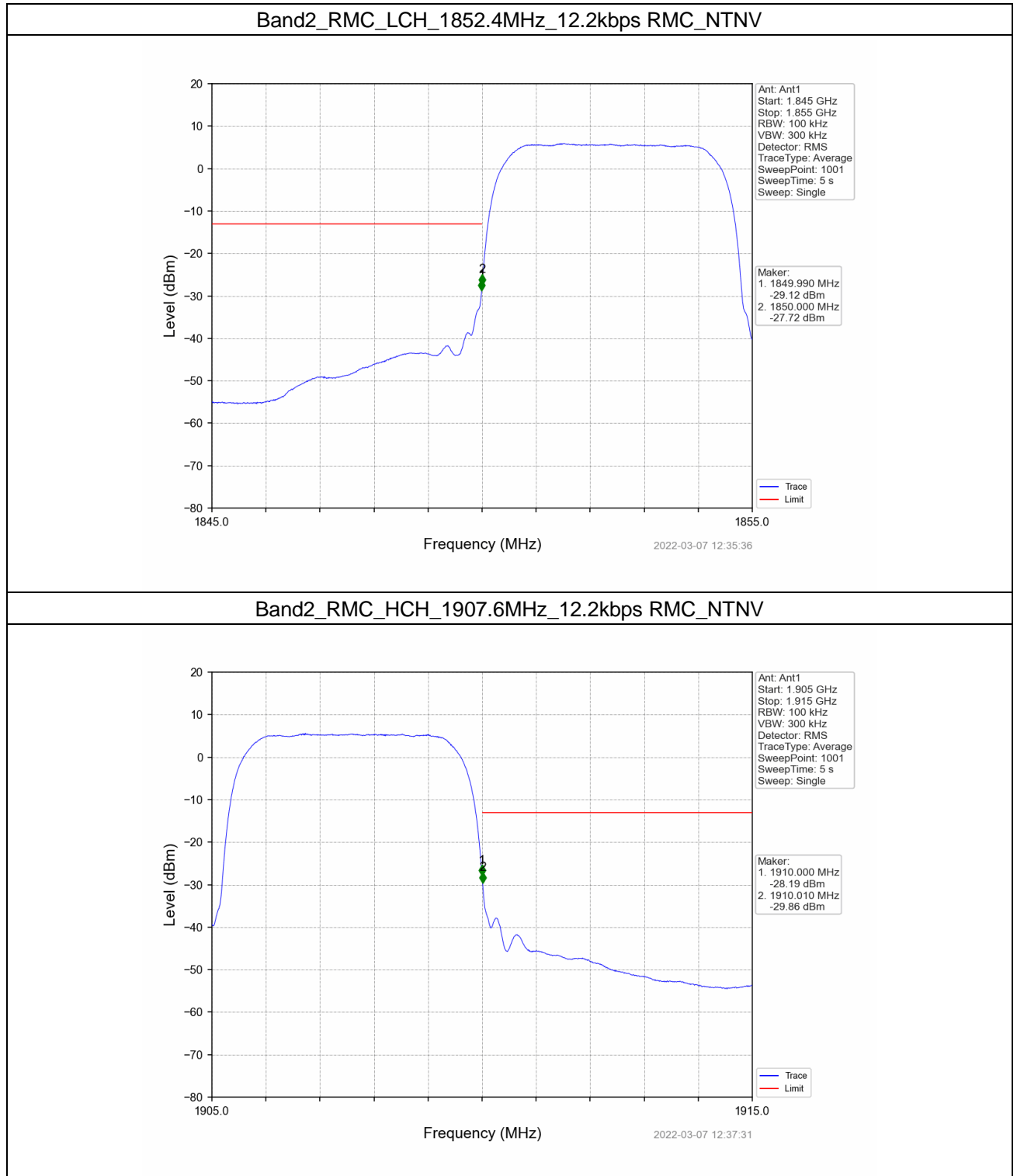
6.4.2 Test Setup Diagram



6.4.3 Measurement Data



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