



1. Effective (Isotropic) Radiated Power Output Data

1.1 Band2_EIRP

1.1.1 Test Result

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	22.59	1.58	24.17	<=33.01	Pass			
			1880	22.66	1.58	24.24	<=33.01	Pass			
			1907.6	22.61	1.58	24.19	<=33.01	Pass			
	HSDPA		Subtest 1	1852.4	20.43	1.58	22.01	<=33.01	Pass		
			Subtest 2	1852.4	20.60	1.58	22.18	<=33.01	Pass		
			Subtest 3	1852.4	20.55	1.58	22.13	<=33.01	Pass		
			Subtest 4	1852.4	20.50	1.58	22.08	<=33.01	Pass		
			Subtest 1	1880	20.61	1.58	22.19	<=33.01	Pass		
			Subtest 2	1880	20.68	1.58	22.26	<=33.01	Pass		
			Subtest 3	1880	20.60	1.58	22.18	<=33.01	Pass		
			Subtest 4	1880	20.64	1.58	22.22	<=33.01	Pass		
			Subtest 1	1907.6	20.49	1.58	22.07	<=33.01	Pass		
			Subtest 2	1907.6	20.49	1.58	22.07	<=33.01	Pass		
			Subtest 3	1907.6	20.46	1.58	22.04	<=33.01	Pass		
			Subtest 4	1907.6	20.45	1.58	22.03	<=33.01	Pass		
			HSUPA		Subtest 1	1852.4	18.25	1.58	19.83	<=33.01	Pass
					Subtest 2	1852.4	18.58	1.58	20.16	<=33.01	Pass
					Subtest 3	1852.4	18.21	1.58	19.79	<=33.01	Pass
					Subtest 4	1852.4	18.26	1.58	19.84	<=33.01	Pass
					Subtest 5	1852.4	18.56	1.58	20.14	<=33.01	Pass
	Subtest 1	1880			18.07	1.58	19.65	<=33.01	Pass		
	Subtest 2	1880			17.96	1.58	19.54	<=33.01	Pass		
	Subtest 3	1880			18.21	1.58	19.79	<=33.01	Pass		
	Subtest 4	1880			18.30	1.58	19.88	<=33.01	Pass		
	Subtest 5	1880			18.56	1.58	20.14	<=33.01	Pass		
	Subtest 1	1907.6			18.45	1.58	20.03	<=33.01	Pass		
	Subtest 2	1907.6			17.94	1.58	19.52	<=33.01	Pass		
	Subtest 3	1907.6			18.48	1.58	20.06	<=33.01	Pass		
	Subtest 4	1907.6	18.24	1.58	19.82	<=33.01	Pass				
	Subtest 5	1907.6	17.84	1.58	19.42	<=33.01	Pass				

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Band2

2.1.1 Test Result

Band: 2							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1852.4	20	3.27	0.665	0.0004	-2.5 to 2.5	Pass
			3.85	0.587	0.0003	-2.5 to 2.5	Pass
			4.43	-3.691	-0.0020	-2.5 to 2.5	Pass
		-30	3.85	-6.094	-0.0033	-2.5 to 2.5	Pass



	1880	-20	3.85	-6.759	-0.0036	-2.5 to 2.5	Pass
		-10	3.85	1.101	0.0006	-2.5 to 2.5	Pass
		0	3.85	-3.283	-0.0018	-2.5 to 2.5	Pass
		10	3.85	-1.345	-0.0007	-2.5 to 2.5	Pass
		30	3.85	-4.299	-0.0023	-2.5 to 2.5	Pass
		40	3.85	-2.260	-0.0012	-2.5 to 2.5	Pass
		50	3.85	-2.882	-0.0016	-2.5 to 2.5	Pass
	1880	20	3.27	-2.282	-0.0012	-2.5 to 2.5	Pass
			3.85	-4.864	-0.0026	-2.5 to 2.5	Pass
			4.43	-2.410	-0.0013	-2.5 to 2.5	Pass
		-30	3.85	-1.788	-0.0010	-2.5 to 2.5	Pass
		-20	3.85	-2.275	-0.0012	-2.5 to 2.5	Pass
		-10	3.85	-4.807	-0.0026	-2.5 to 2.5	Pass
		0	3.85	-0.572	-0.0003	-2.5 to 2.5	Pass
		10	3.85	0.157	0.0001	-2.5 to 2.5	Pass
		30	3.85	-1.123	-0.0006	-2.5 to 2.5	Pass
		40	3.85	-6.680	-0.0036	-2.5 to 2.5	Pass
	50	3.85	-4.678	-0.0025	-2.5 to 2.5	Pass	
	1907.6	20	3.27	-3.040	-0.0016	-2.5 to 2.5	Pass
			3.85	-5.150	-0.0027	-2.5 to 2.5	Pass
			4.43	-3.026	-0.0016	-2.5 to 2.5	Pass
		-30	3.85	-6.015	-0.0032	-2.5 to 2.5	Pass
		-20	3.85	-2.325	-0.0012	-2.5 to 2.5	Pass
		-10	3.85	0.851	0.0004	-2.5 to 2.5	Pass
		0	3.85	-1.409	-0.0007	-2.5 to 2.5	Pass
		10	3.85	-1.574	-0.0008	-2.5 to 2.5	Pass
		30	3.85	-2.768	-0.0015	-2.5 to 2.5	Pass
40		3.85	-6.874	-0.0036	-2.5 to 2.5	Pass	
50	3.85	-0.994	-0.0005	-2.5 to 2.5	Pass		
HSDPA	1852.4	20	3.27	-12.038	-0.0065	-2.5 to 2.5	Pass
			3.85	-10.343	-0.0056	-2.5 to 2.5	Pass
			4.43	-11.301	-0.0061	-2.5 to 2.5	Pass
		-30	3.85	-9.584	-0.0052	-2.5 to 2.5	Pass
		-20	3.85	-13.475	-0.0073	-2.5 to 2.5	Pass
		-10	3.85	-11.544	-0.0062	-2.5 to 2.5	Pass
		0	3.85	-8.290	-0.0045	-2.5 to 2.5	Pass
		10	3.85	-14.913	-0.0081	-2.5 to 2.5	Pass
		30	3.85	-12.910	-0.0070	-2.5 to 2.5	Pass
		40	3.85	-12.181	-0.0066	-2.5 to 2.5	Pass
	50	3.85	-9.599	-0.0052	-2.5 to 2.5	Pass	
	1880	20	3.27	-0.694	-0.0004	-2.5 to 2.5	Pass
			3.85	-2.582	-0.0014	-2.5 to 2.5	Pass
			4.43	-1.037	-0.0006	-2.5 to 2.5	Pass
		-30	3.85	-0.193	-0.0001	-2.5 to 2.5	Pass
		-20	3.85	0.272	0.0001	-2.5 to 2.5	Pass
		-10	3.85	1.566	0.0008	-2.5 to 2.5	Pass
		0	3.85	-0.887	-0.0005	-2.5 to 2.5	Pass
		10	3.85	4.821	0.0026	-2.5 to 2.5	Pass
		30	3.85	0.150	0.0001	-2.5 to 2.5	Pass
		40	3.85	3.297	0.0018	-2.5 to 2.5	Pass
	50	3.85	1.323	0.0007	-2.5 to 2.5	Pass	
	1907.6	20	3.27	-13.947	-0.0073	-2.5 to 2.5	Pass
			3.85	-12.903	-0.0068	-2.5 to 2.5	Pass
			4.43	-13.225	-0.0069	-2.5 to 2.5	Pass
		-30	3.85	-13.068	-0.0069	-2.5 to 2.5	Pass
		-20	3.85	-11.880	-0.0062	-2.5 to 2.5	Pass
-10		3.85	-14.319	-0.0075	-2.5 to 2.5	Pass	
0		3.85	-14.613	-0.0077	-2.5 to 2.5	Pass	



		10	3.85	-13.325	-0.0070	-2.5 to 2.5	Pass
		30	3.85	-13.468	-0.0071	-2.5 to 2.5	Pass
		40	3.85	-14.584	-0.0076	-2.5 to 2.5	Pass
		50	3.85	-10.571	-0.0055	-2.5 to 2.5	Pass
HSUPA	1852.4	20	3.27	0.157	0.0001	-2.5 to 2.5	Pass
			3.85	-3.569	-0.0019	-2.5 to 2.5	Pass
			4.43	-1.323	-0.0007	-2.5 to 2.5	Pass
		-30	3.85	2.511	0.0014	-2.5 to 2.5	Pass
		-20	3.85	4.170	0.0023	-2.5 to 2.5	Pass
		-10	3.85	0.122	0.0001	-2.5 to 2.5	Pass
		0	3.85	-1.316	-0.0007	-2.5 to 2.5	Pass
		10	3.85	-0.308	-0.0002	-2.5 to 2.5	Pass
		30	3.85	-3.011	-0.0016	-2.5 to 2.5	Pass
		40	3.85	-3.884	-0.0021	-2.5 to 2.5	Pass
		50	3.85	1.738	0.0009	-2.5 to 2.5	Pass
		1880	20	3.27	-2.289	-0.0012	-2.5 to 2.5
	3.85			-2.503	-0.0013	-2.5 to 2.5	Pass
	4.43			-3.147	-0.0017	-2.5 to 2.5	Pass
	-30		3.85	-3.870	-0.0021	-2.5 to 2.5	Pass
	-20		3.85	-9.334	-0.0050	-2.5 to 2.5	Pass
	-10		3.85	-7.010	-0.0037	-2.5 to 2.5	Pass
	0		3.85	-6.695	-0.0036	-2.5 to 2.5	Pass
	10		3.85	-3.047	-0.0016	-2.5 to 2.5	Pass
	30		3.85	-3.541	-0.0019	-2.5 to 2.5	Pass
	40		3.85	-9.148	-0.0049	-2.5 to 2.5	Pass
	50		3.85	-3.784	-0.0020	-2.5 to 2.5	Pass
	1907.6		20	3.27	-4.363	-0.0023	-2.5 to 2.5
		3.85		-3.111	-0.0016	-2.5 to 2.5	Pass
		4.43		-3.519	-0.0018	-2.5 to 2.5	Pass
		-30	3.85	-7.818	-0.0041	-2.5 to 2.5	Pass
		-20	3.85	-2.418	-0.0013	-2.5 to 2.5	Pass
		-10	3.85	-4.277	-0.0022	-2.5 to 2.5	Pass
		0	3.85	-1.652	-0.0009	-2.5 to 2.5	Pass
		10	3.85	-2.511	-0.0013	-2.5 to 2.5	Pass
		30	3.85	-8.025	-0.0042	-2.5 to 2.5	Pass
		40	3.85	-0.143	-0.0001	-2.5 to 2.5	Pass
50		3.85	-3.176	-0.0017	-2.5 to 2.5	Pass	

3. Modulation Characteristics

3.1 Band2

3.1.1 Test Result

Band: 2						
ENV	Mode		Frequency (MHz)	Modulation Characteristics		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1880	Refer To Test Graph		Pass
	HSDPA	Subtest 1	1880	Refer To Test Graph		Pass
	HSUPA	Subtest 1	1880	Refer To Test Graph		Pass

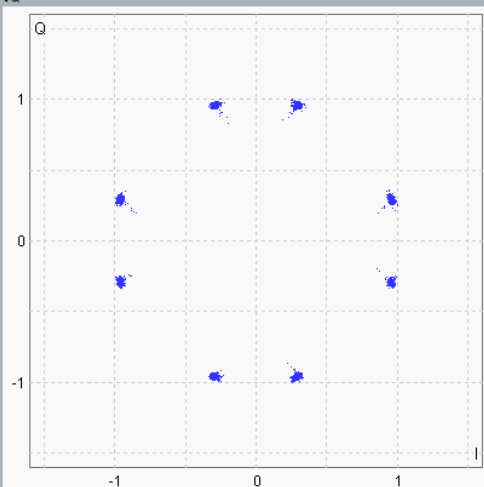
3.1.2 Test Graph

Band2_RMC_MCH_1880MHz_12.2kbps RMC_NTNV

WCDMA UE TX Measurement - V3.7.22 - Base V 3.7.172

Multi Evaluation
 TPC Measurement
 PRACH
 DPCCH Open Loop Power
 Out-of-Sync Handling

UL Frequency: 1880.000000 MHz Ref. Level: 32.40 dBm Connector: RF1COM Meas. Period: Full Slot



Statistic Count
20 / 20

1st Measured Slot No: 0

Statistics @ Pre. ...	CurrentStdDev
Power [dBm]	NCAP NCAP
Power Steps [dB]	NCAP NCAP
EVM RMS [%]	NCAP NCAP
EVM Peak [%]	NCAP NCAP
Magn. Error RMS [%]	NCAP NCAP
Magn. Error Peak [%]	NCAP NCAP
Phase Error RMS [°]	NCAP NCAP
Phase Error Peak [°]	NCAP NCAP
IQ Origin Offset [dB]	NCAP NCAP
IQ Imbalance [dB]	NCAP NCAP
CF Error [Hz]	NCAP NCAP
Phase Disc. [°]	NCAP

WCDMA

Multi Evaluation

RDY

RF Settings

Trigger

Display

Signaling Parameter

WCDMA 1 Signaling

ON

HSDPA CPO Circuit Switched:

HSPA+ CM Registered

Packet Switched:

Connection Established

Power: ON

Sync: ON

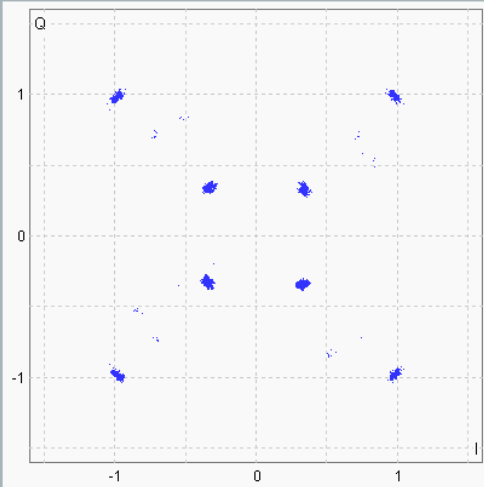
Go To Local Show Remote Screen

Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV

WCDMA UE TX Measurement - V3.7.22 - Base V 3.7.172

Multi Evaluation
 TPC Measurement
 PRACH
 DPCCH Open Loop Power
 Out-of-Sync Handling

UL Frequency: 1880.000000 MHz Ref. Level: 34.00 dBm Connector: RF1COM Meas. Period: Full Slot



Statistic Count
20 / 20

1st Measured Slot No: 0

Statistics @ Pre. ...	CurrentStdDev
Power [dBm]	NCAP NCAP
Power Steps [dB]	NCAP NCAP
EVM RMS [%]	NCAP NCAP
EVM Peak [%]	NCAP NCAP
Magn. Error RMS [%]	NCAP NCAP
Magn. Error Peak [%]	NCAP NCAP
Phase Error RMS [°]	NCAP NCAP
Phase Error Peak [°]	NCAP NCAP
IQ Origin Offset [dB]	NCAP NCAP
IQ Imbalance [dB]	NCAP NCAP
CF Error [Hz]	NCAP NCAP
Phase Disc. [°]	NCAP

WCDMA

Multi Evaluation

RDY

RF Settings

Trigger

Display

Signaling Parameter

WCDMA 1 Signaling

ON

HSDPA+ CPO Circuit Switched:

HSPA+ CM Registered

Packet Switched:

Connection Established

Power: ON

Sync: ON

Go To Local Show Remote Screen



Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV

WCDMA UE TX Measurement - V3.7.22 - Base V 3.7.172WCDMA

Multi EvaluationTPC MeasurementPRACHDPCCH Open Loop PowerOut-of-Sync Handling

UL Frequency: 1880.000000MHzRef. Level: 34.00 dBmConnector: RF1COMMeas. Period: Full Slot

IQ

-1 0 1

Statistic Count

20 / 20

1st Measured Slot No	0
Statistics @ Pre. ...	CurrentStdDev
Power [dBm]	NCAP NCAP
Power Steps [dB]	NCAP NCAP
EVM RMS [%]	NCAP NCAP
EVM Peak [%]	NCAP NCAP
Magn. Error RMS [%]	NCAP NCAP
Magn. Error Peak [%]	NCAP NCAP
Phase Error RMS [°]	NCAP NCAP
Phase Error Peak [°]	NCAP NCAP
IQ Origin Offset [dB]	NCAP NCAP
IQ Imbalance [dB]	NCAP NCAP
CF Error [Hz]	NCAP NCAP
Phase Disc. [°]	NCAP

HSDPA+ CPO Circuit Switched:

HSDPA CM Registered

Packet Switched: Connection Established

Power: ON

Sync: ON

Go To LocalShow Remote Screen

WCDMA 1 Signaling ON



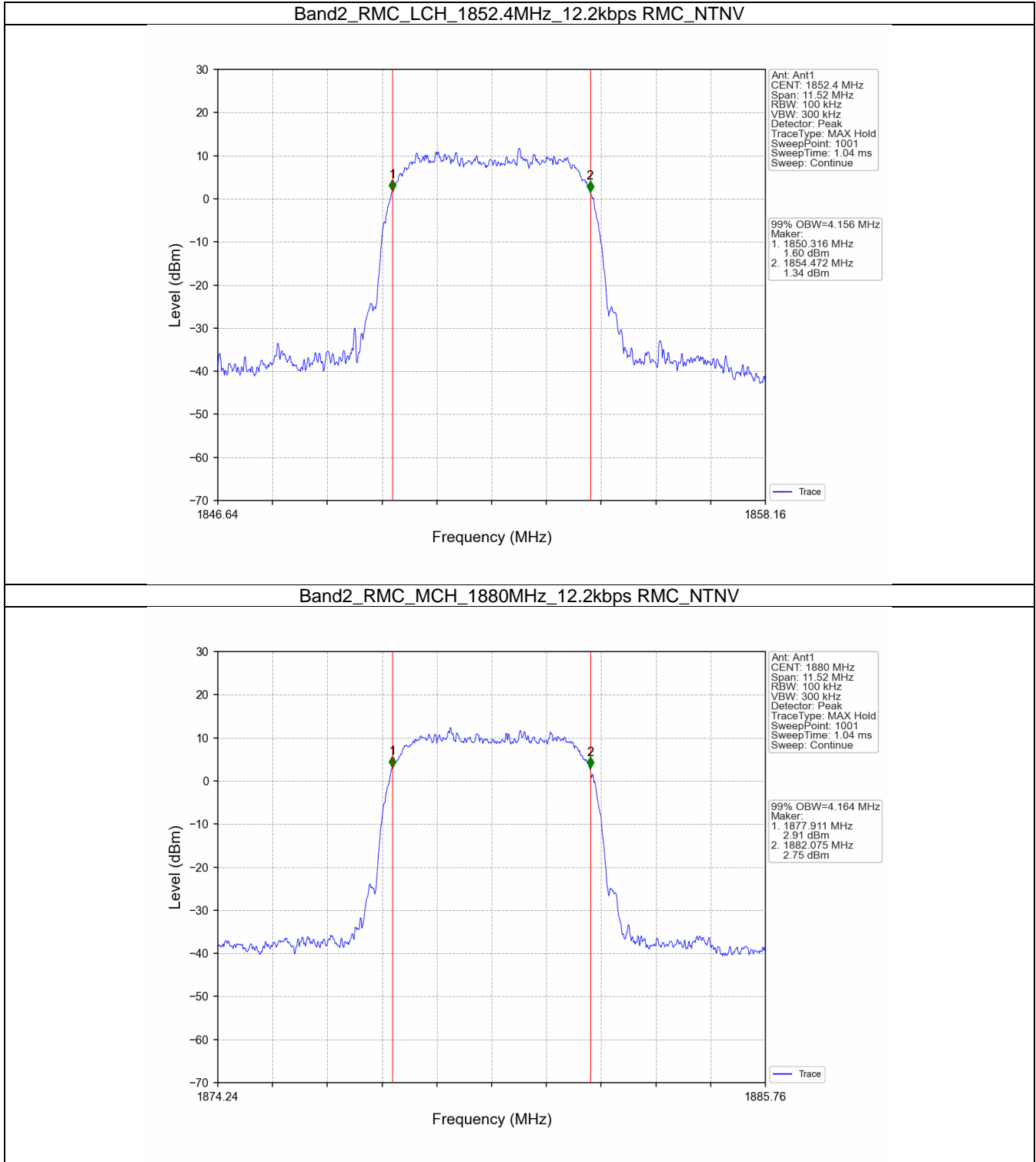
4. 99% & 26dB Bandwidth

4.1 Band2_OBW

4.1.1 Test Result

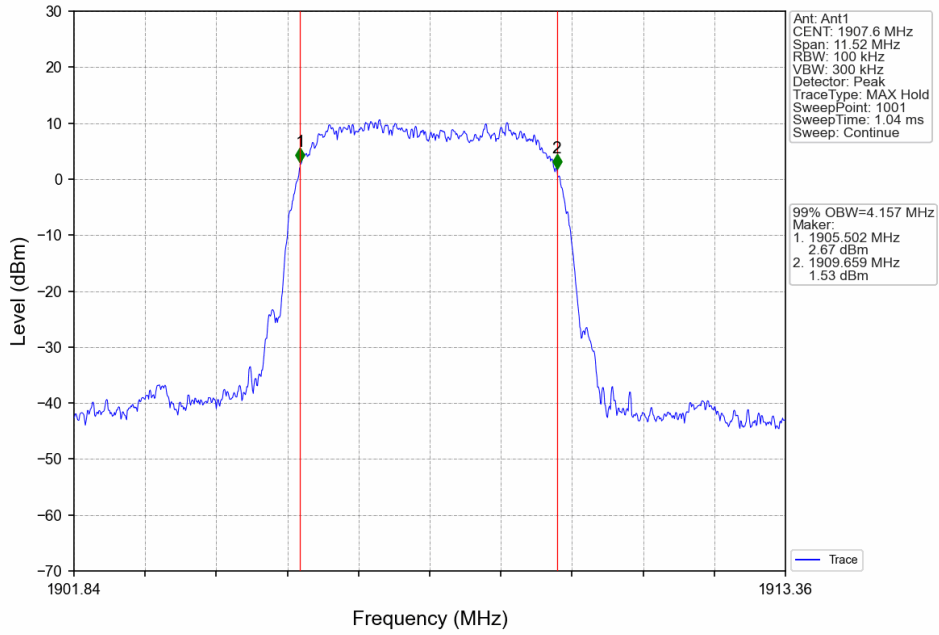
Band: 2						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.156	/	Pass
			1880	4.164	/	Pass
			1907.6	4.157	/	Pass
	HSDPA	Subtest 1	1852.4	4.177	/	Pass
			1880	4.169	/	Pass
			1907.6	4.142	/	Pass
	HSUPA	Subtest 1	1852.4	4.173	/	Pass
			1880	4.184	/	Pass
			1907.6	4.156	/	Pass

4.1.2 Test Graph

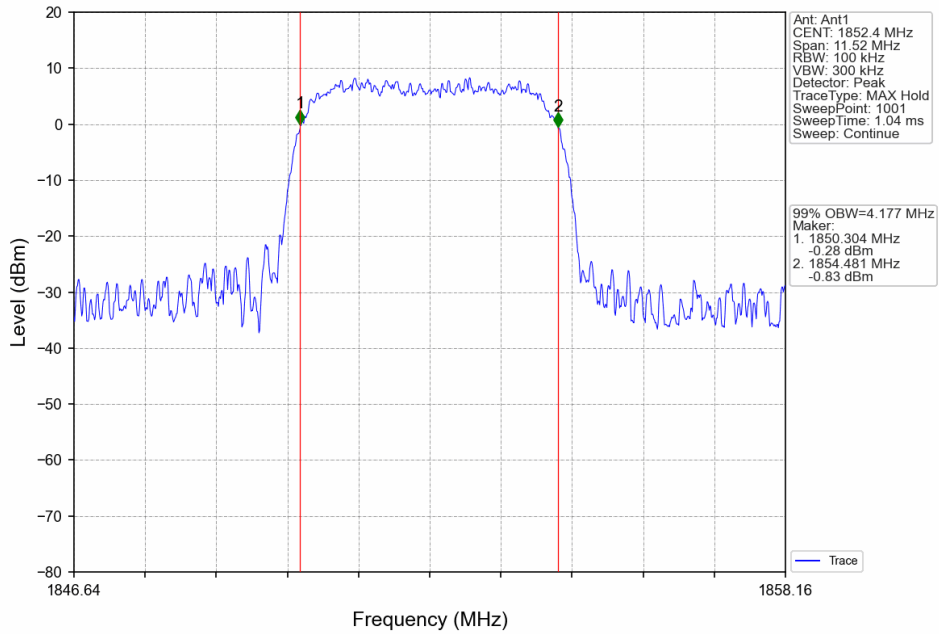




Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV

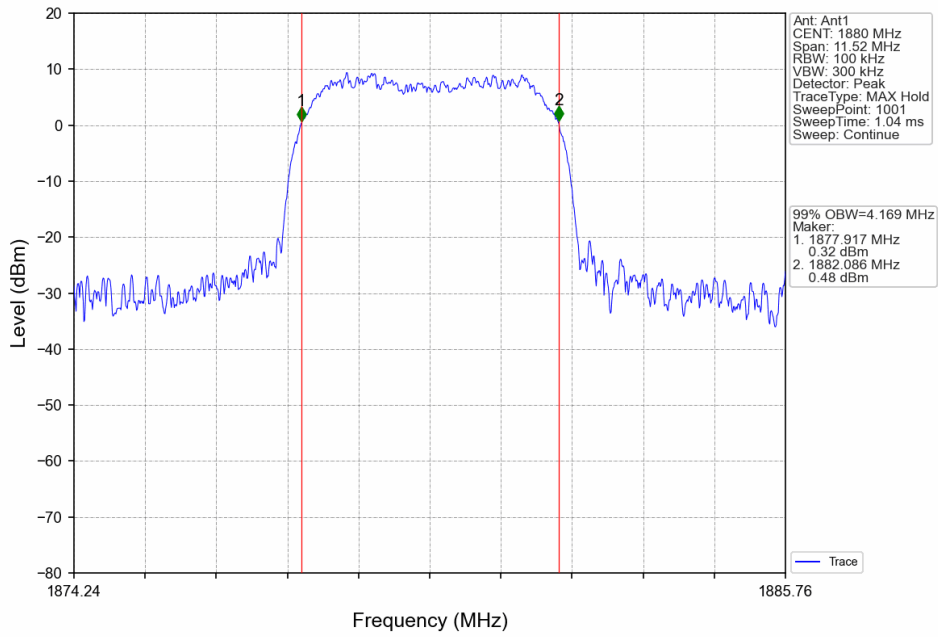


Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV

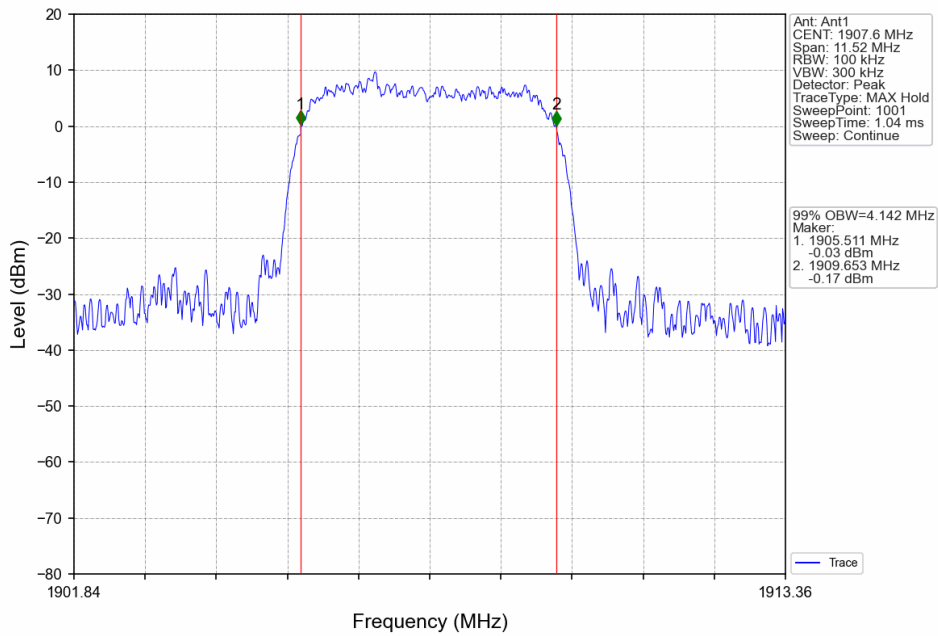




Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV

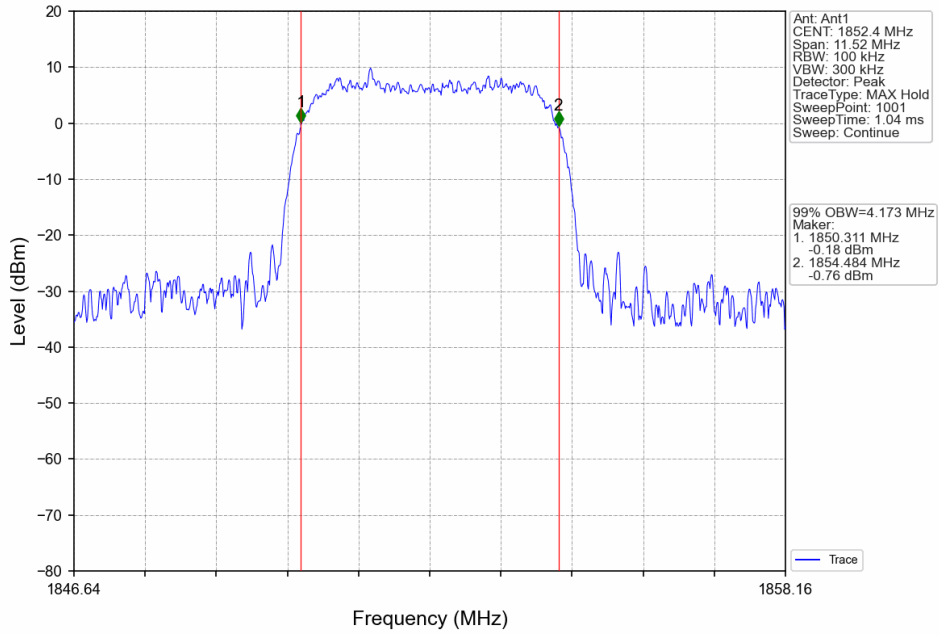


Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV

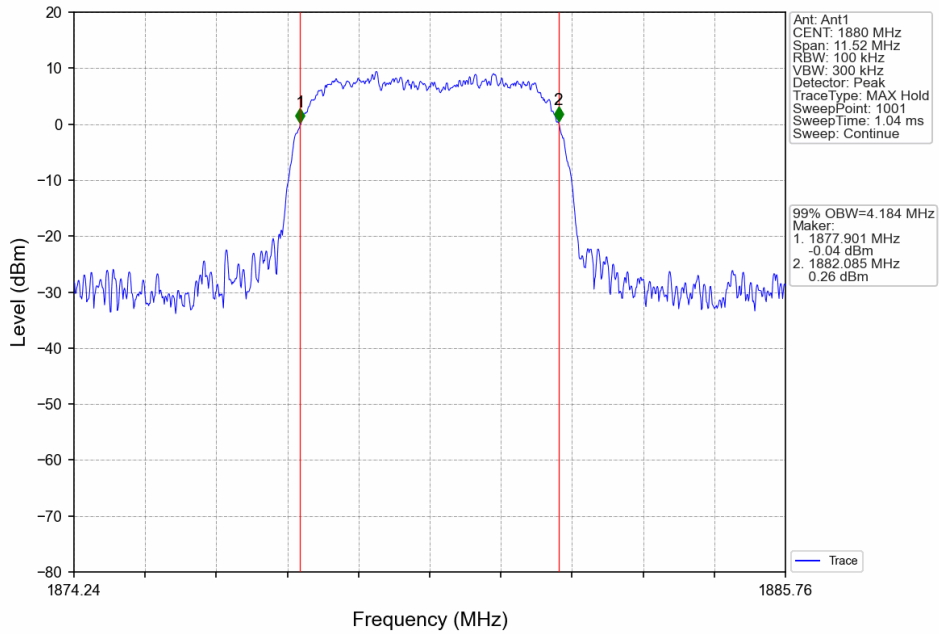


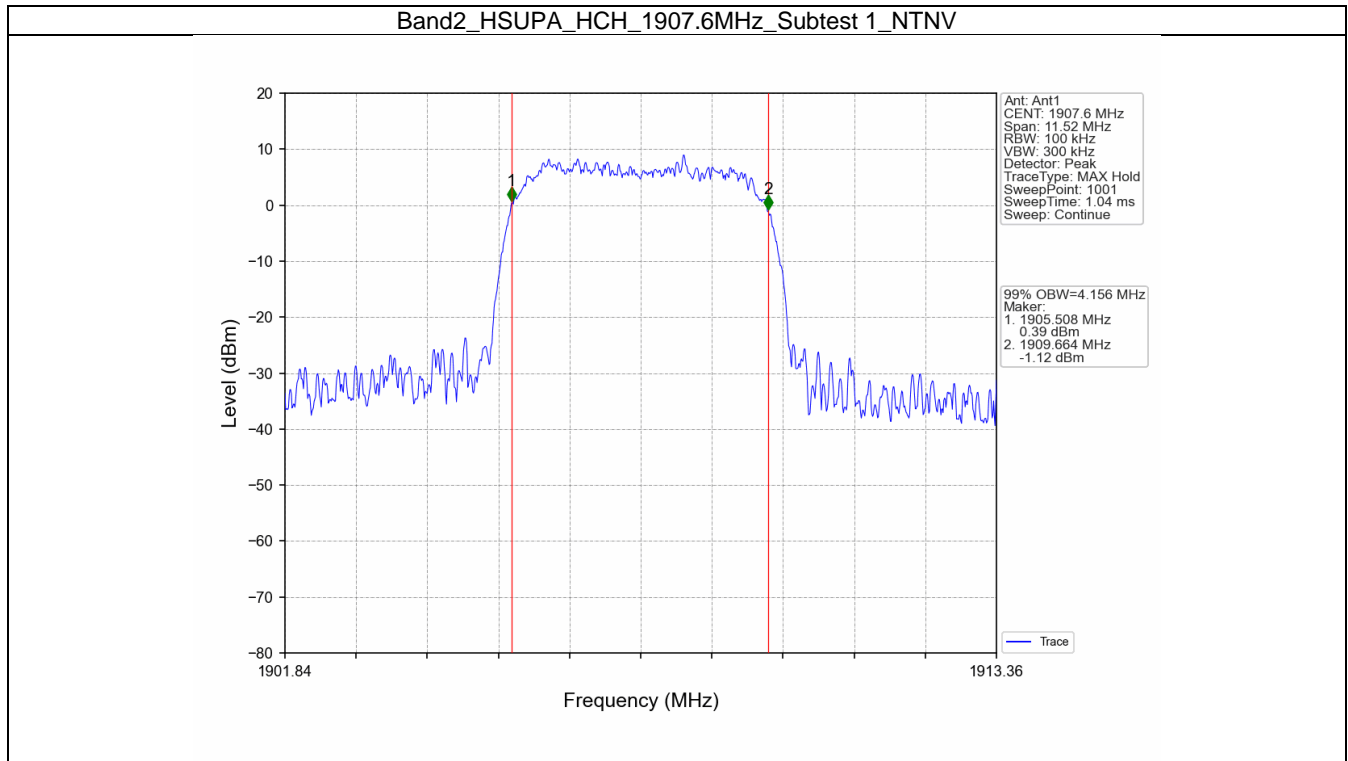


Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV





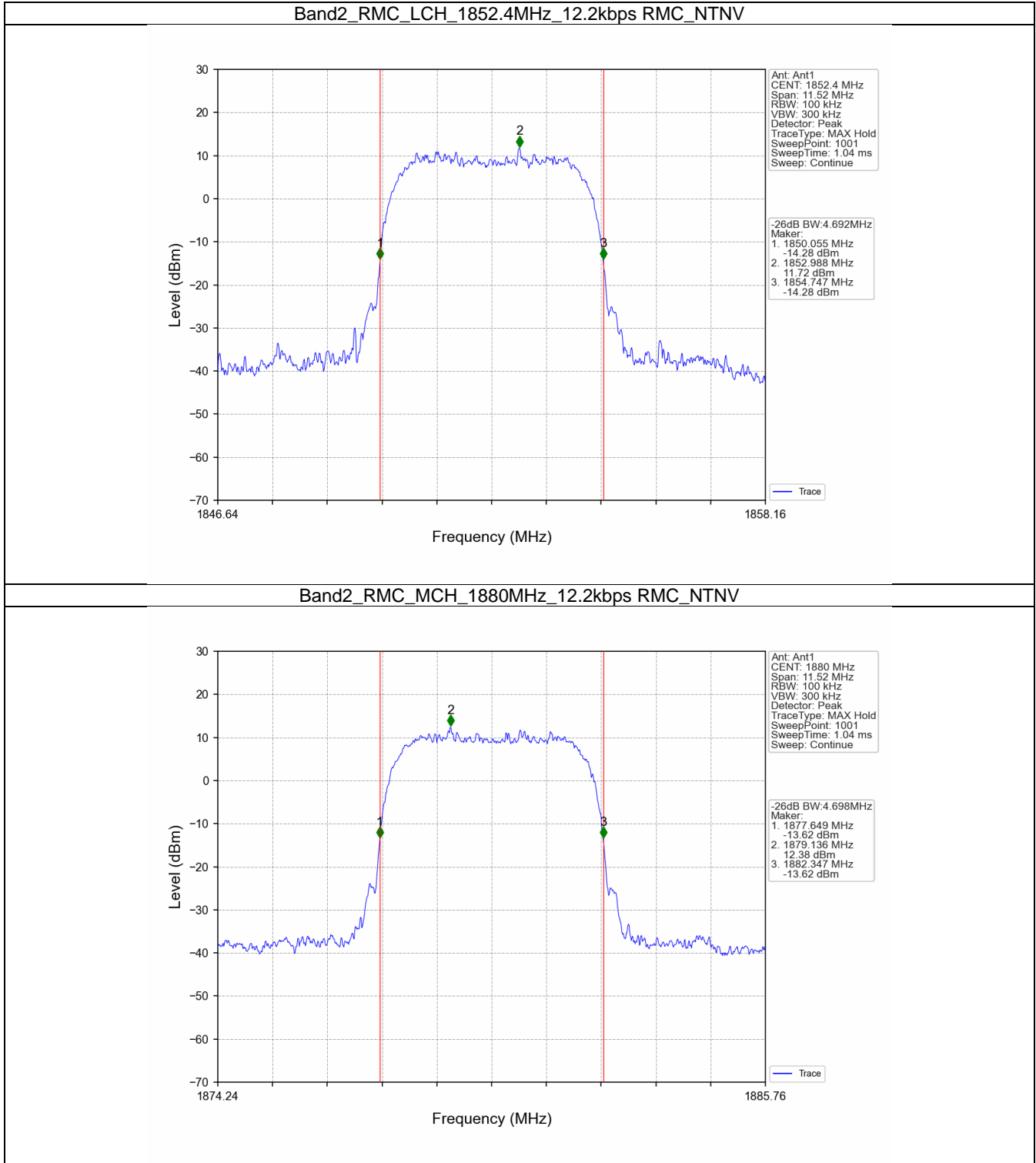


4.2 Band2_XDB

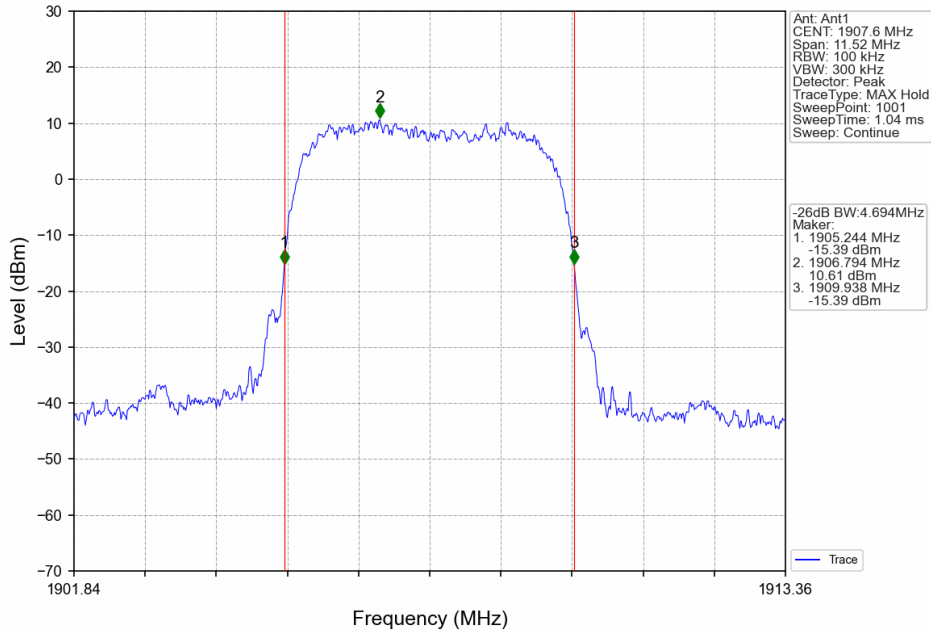
4.2.1 Test Result

Band: 2						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.692	/	Pass
			1880	4.698	/	Pass
			1907.6	4.694	/	Pass
	HSDPA	Subtest 1	1852.4	4.722	/	Pass
			1880	4.710	/	Pass
			1907.6	4.671	/	Pass
	HSUPA	Subtest 1	1852.4	4.710	/	Pass
			1880	4.711	/	Pass
			1907.6	4.703	/	Pass

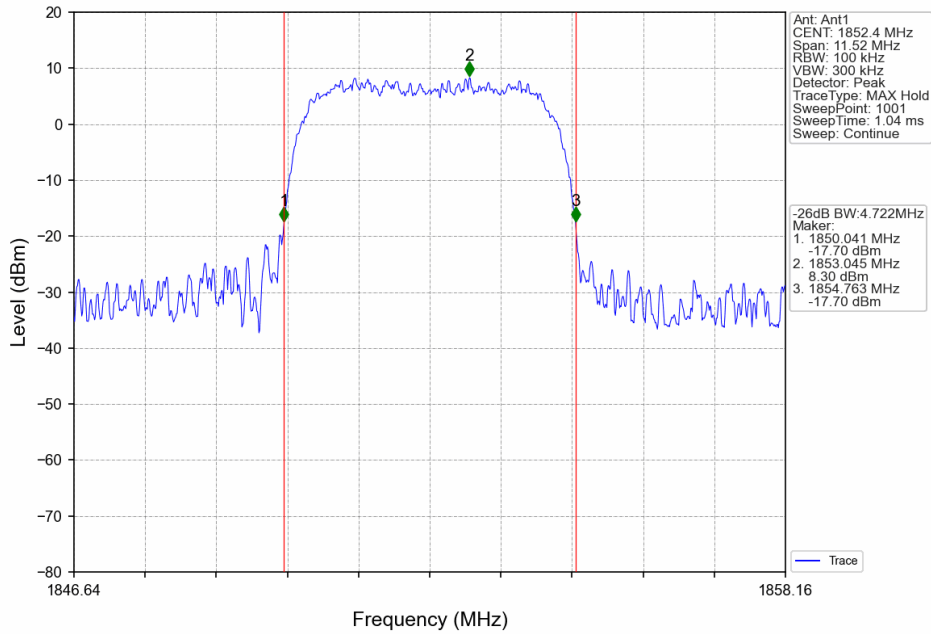
4.2.2 Test Graph



Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV

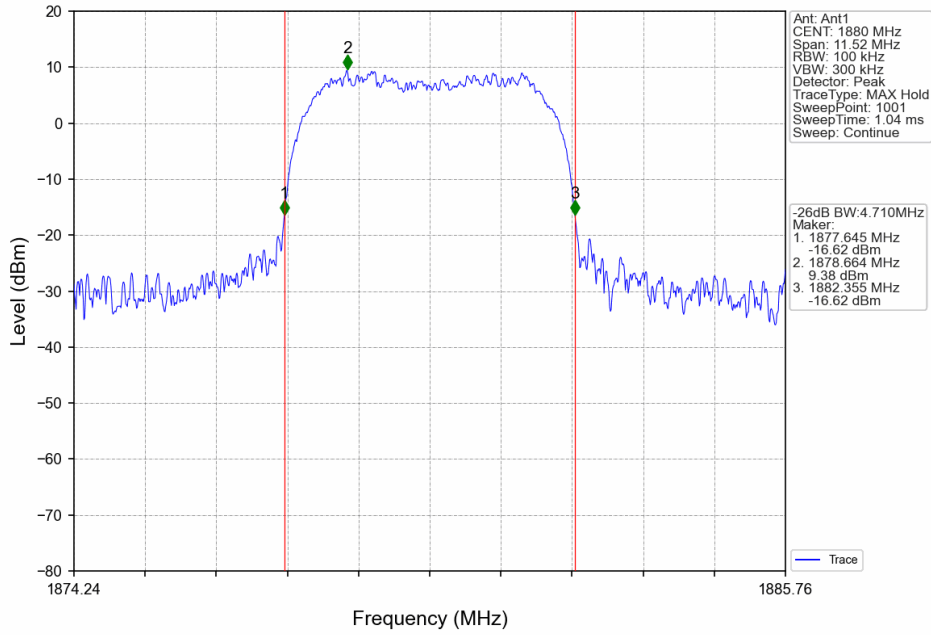


Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV

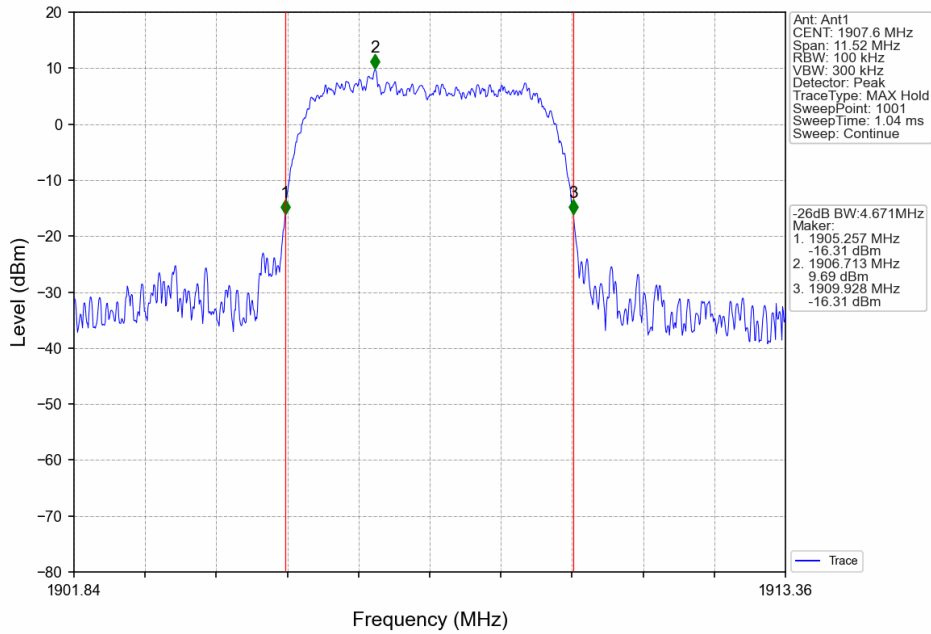




Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV

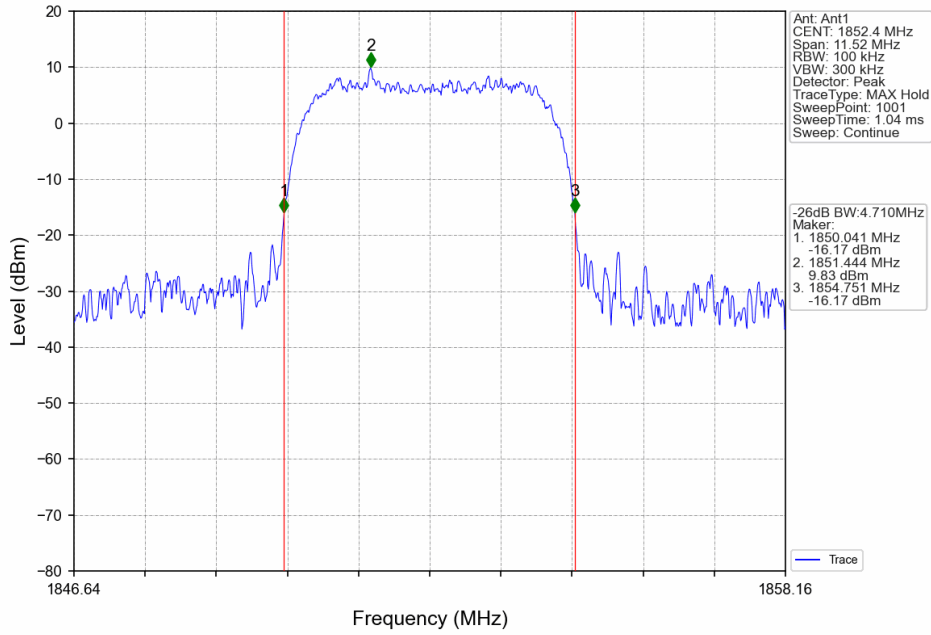


Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV

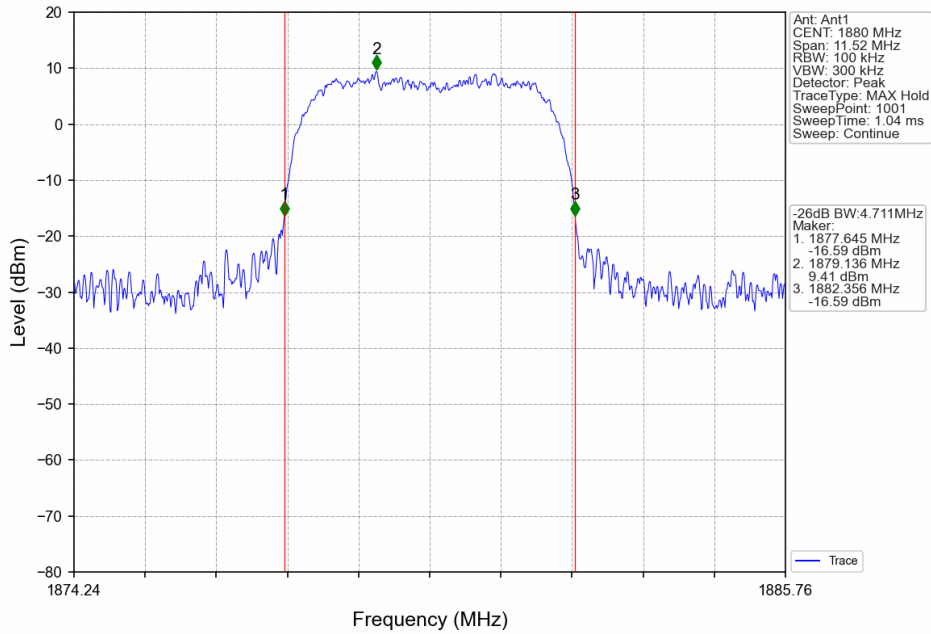


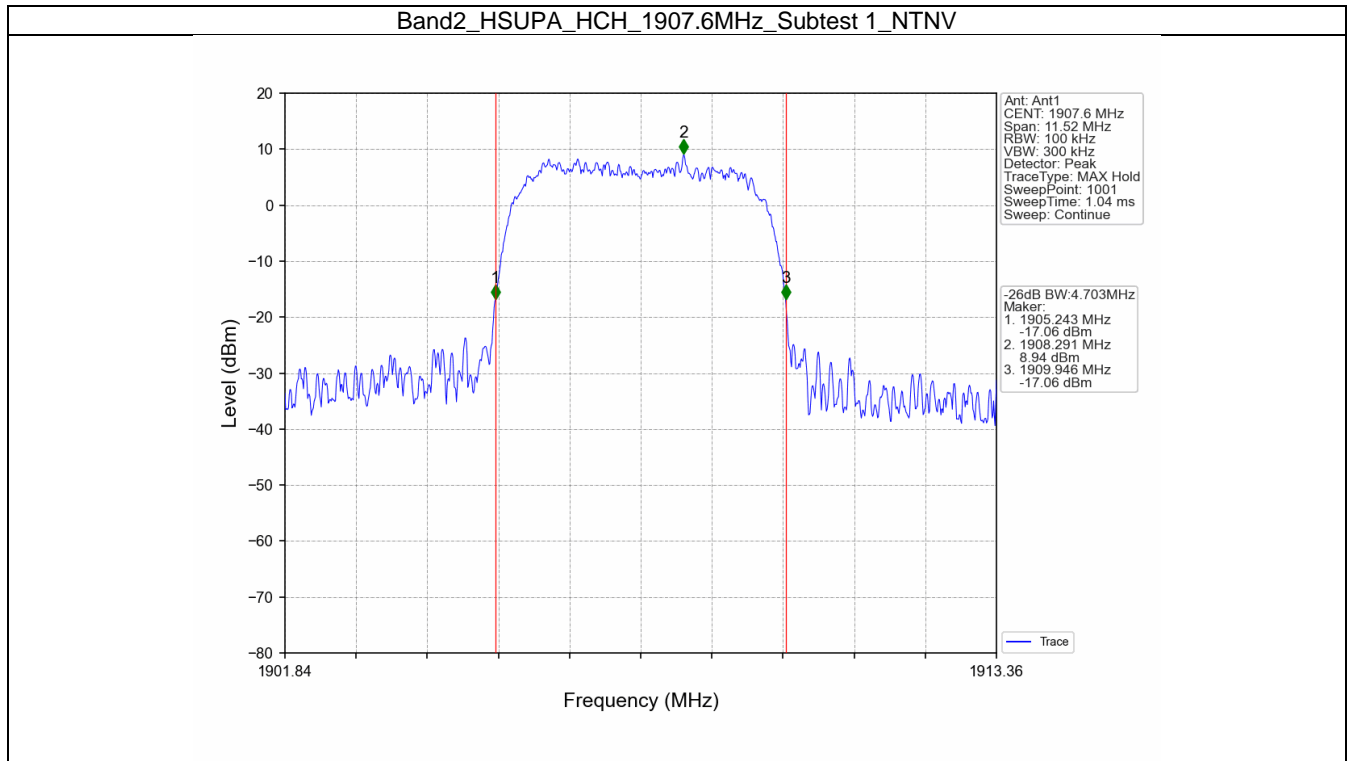


Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV







5. Peak-Average Ratio

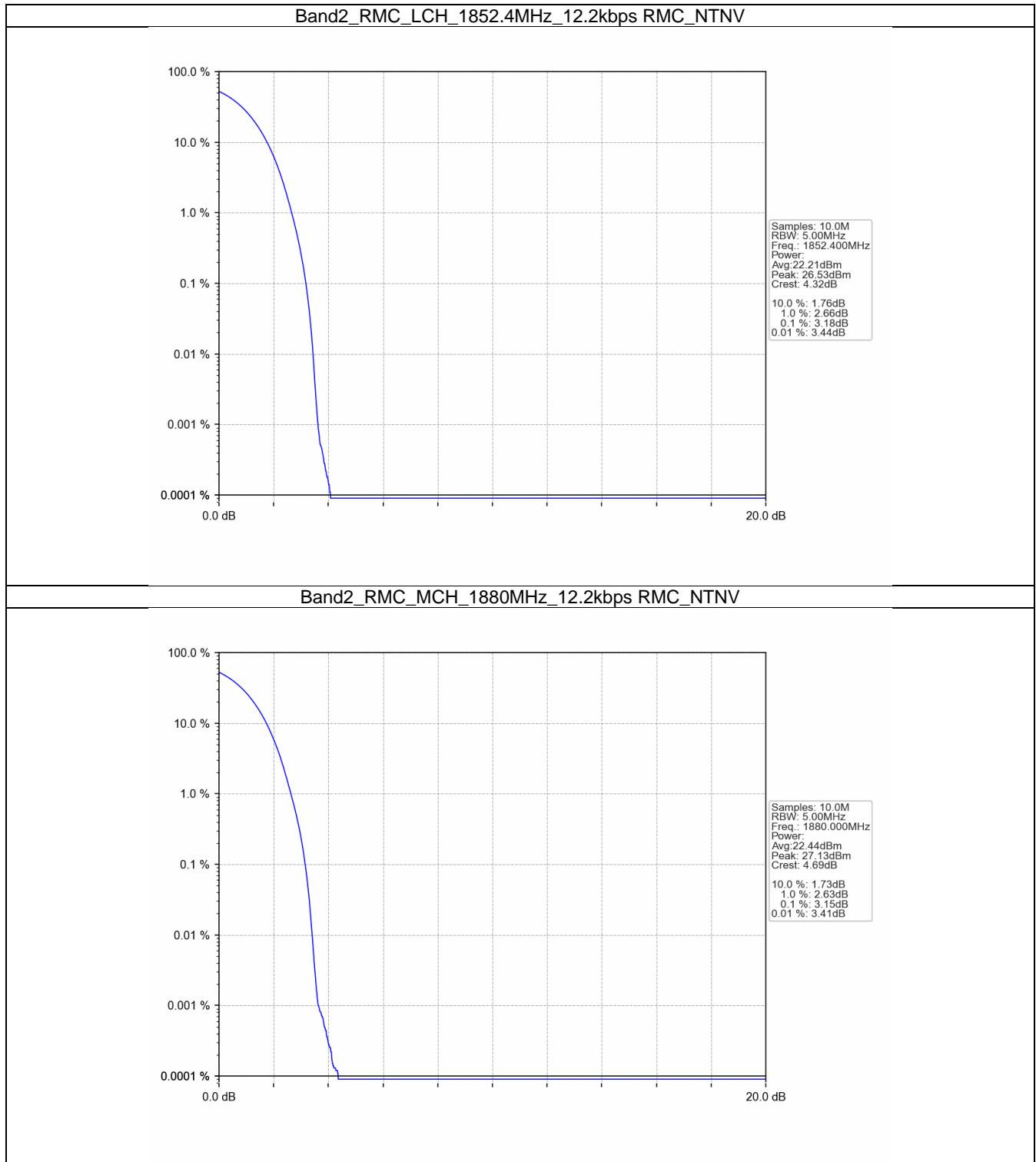
5.1 Band2

5.1.1 Test Result

Band: 2						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	3.18	<=13	Pass
			1880	3.15	<=13	Pass
			1907.6	3.18	<=13	Pass
	HSDPA	Subtest 1	1852.4	5.91	<=13	Pass
			1880	5.88	<=13	Pass
			1907.6	6.12	<=13	Pass
	HSUPA	Subtest 1	1852.4	5.98	<=13	Pass
			1880	5.89	<=13	Pass
			1907.6	6.13	<=13	Pass

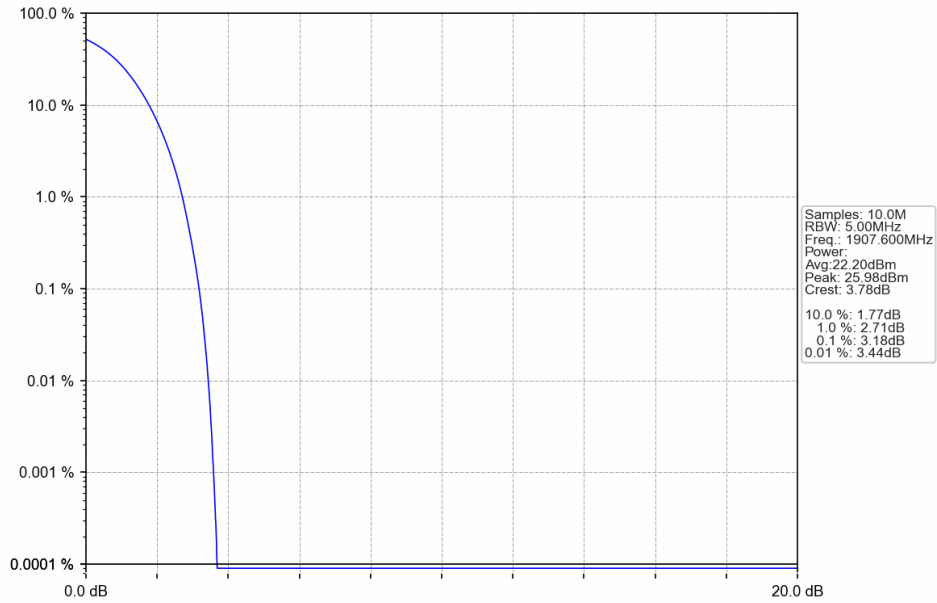


5.1.2 Test Graph

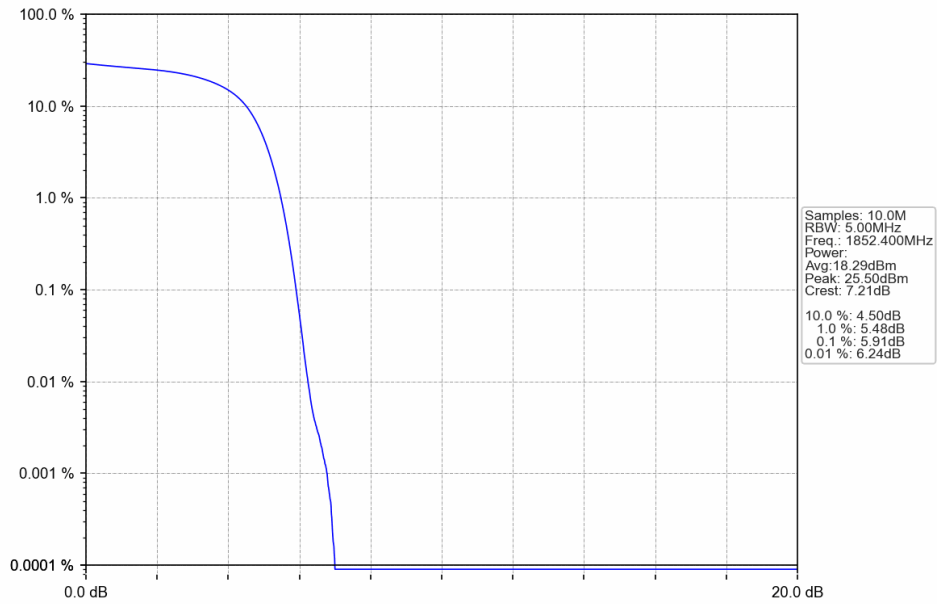




Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV

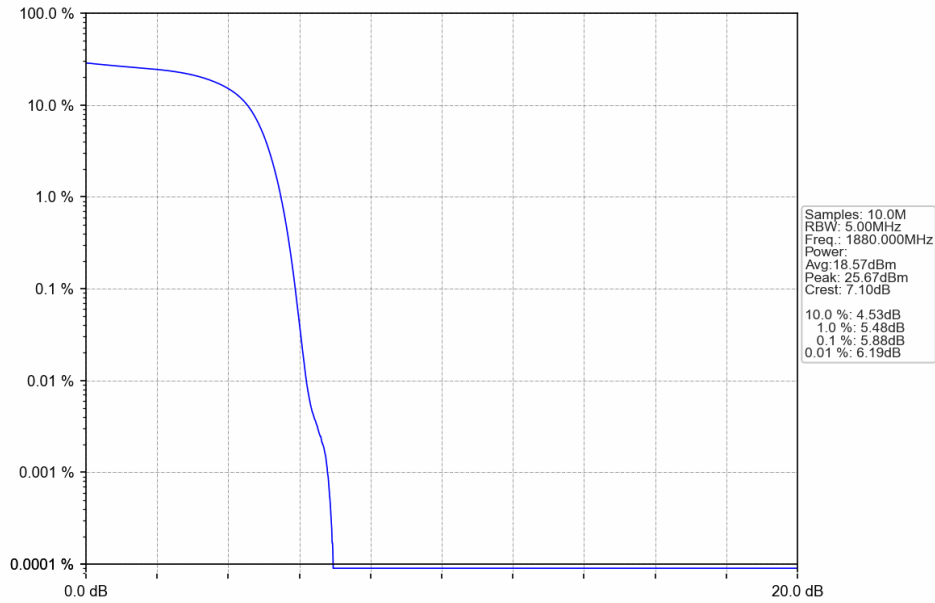


Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV

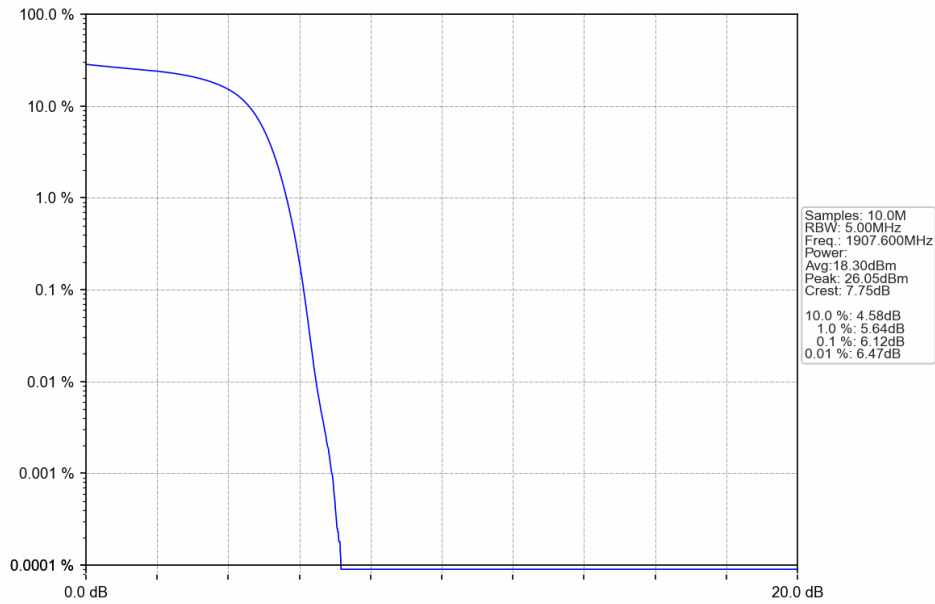




Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV

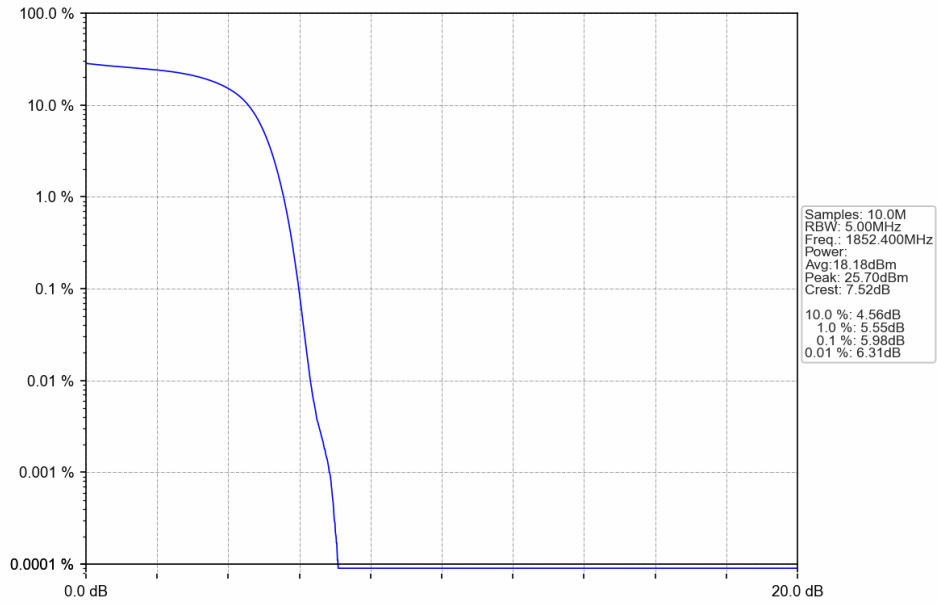


Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV

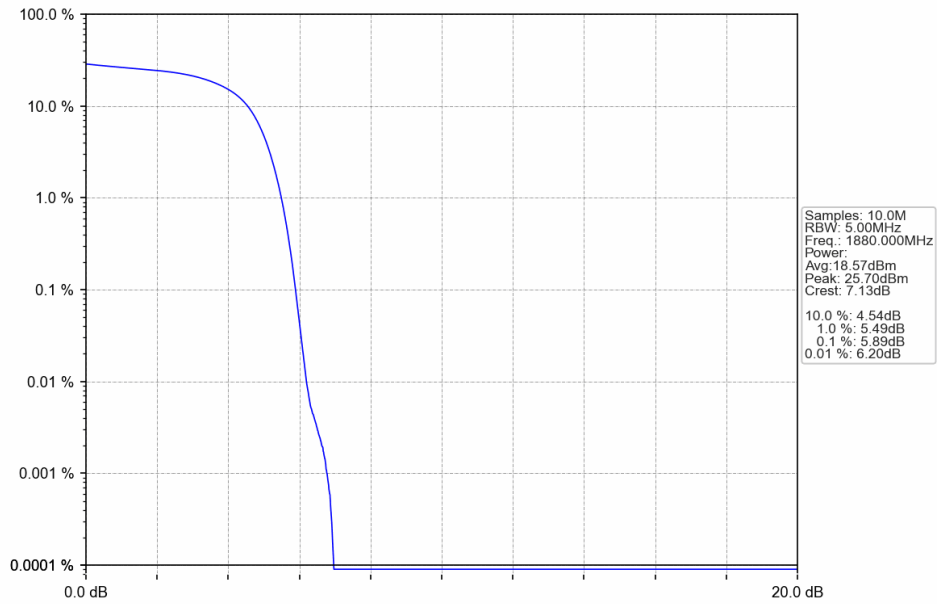


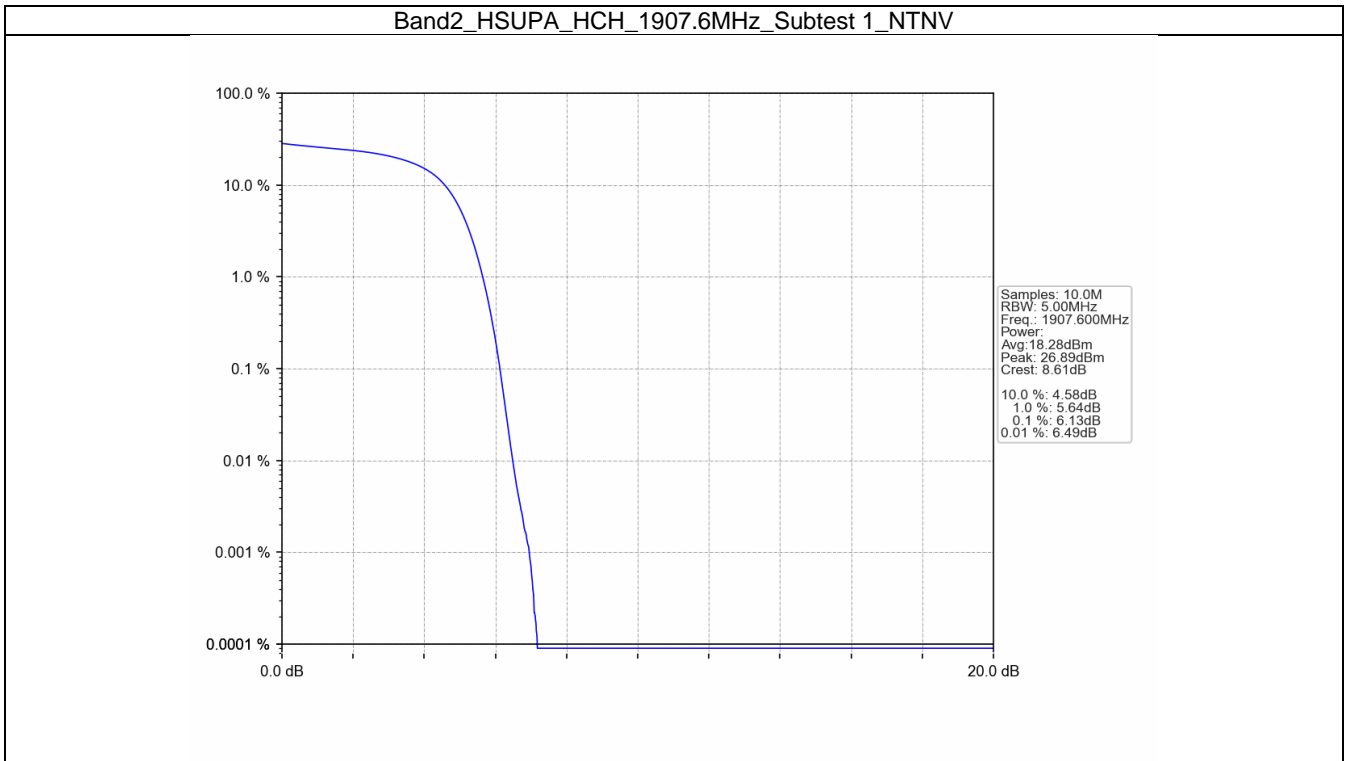


Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV



Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV







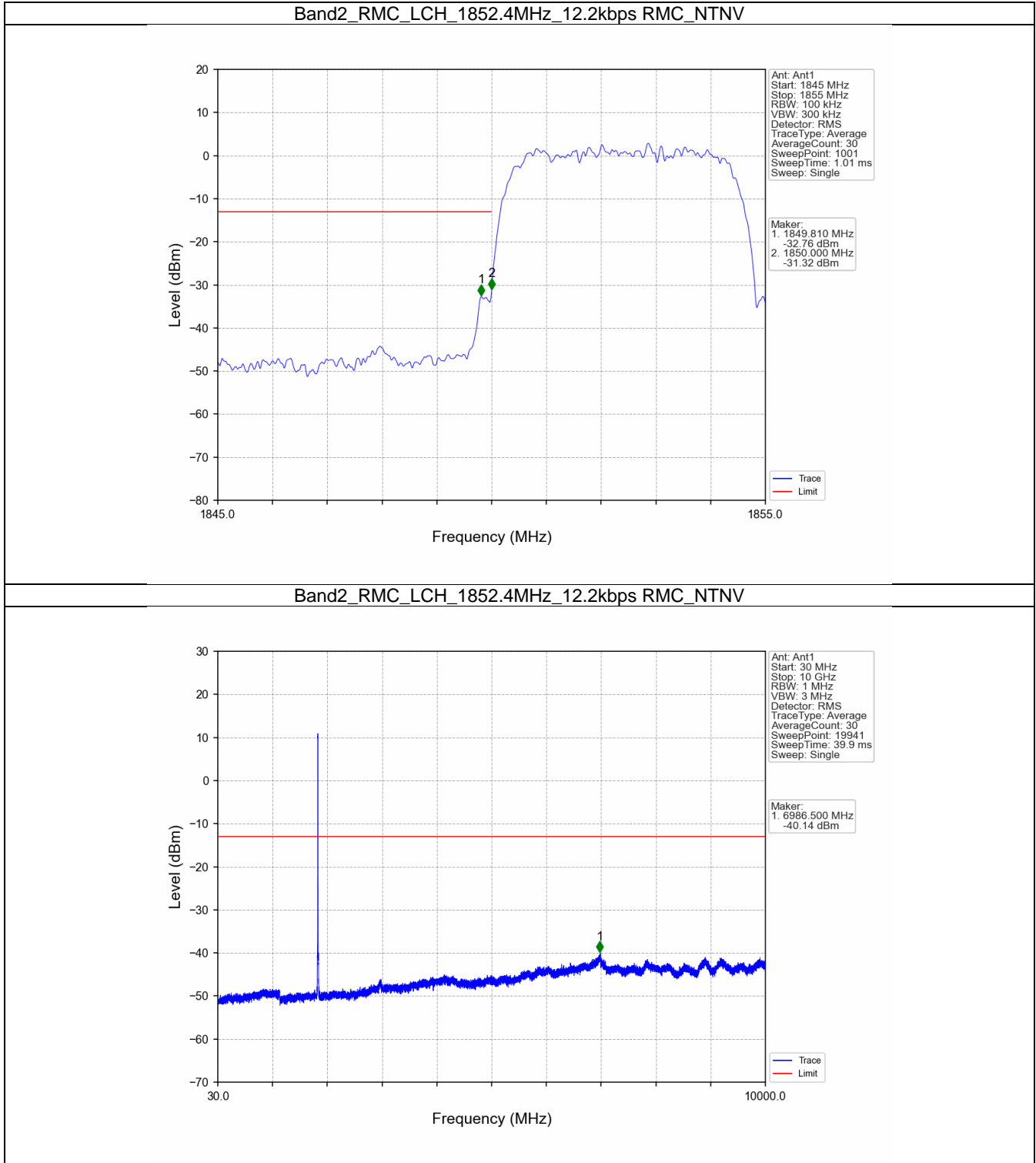
6. Spurious Emission

6.1 Band2

6.1.1 Test Result

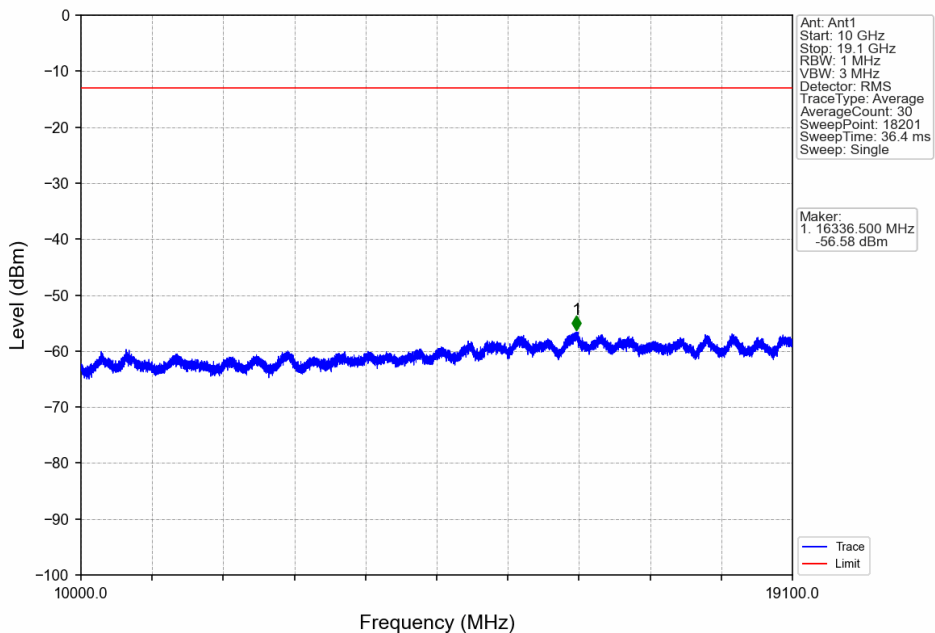
Band: 2						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	Refer To Test Graph	Pass	
			1880	Refer To Test Graph	Pass	
			1907.6	Refer To Test Graph	Pass	
	HSDPA	Subtest 1	1852.4	Refer To Test Graph	Pass	
			1880	Refer To Test Graph	Pass	
			1907.6	Refer To Test Graph	Pass	
	HSUPA	Subtest 1	1852.4	Refer To Test Graph	Pass	
			1880	Refer To Test Graph	Pass	
			1907.6	Refer To Test Graph	Pass	

6.1.2 Test Graph

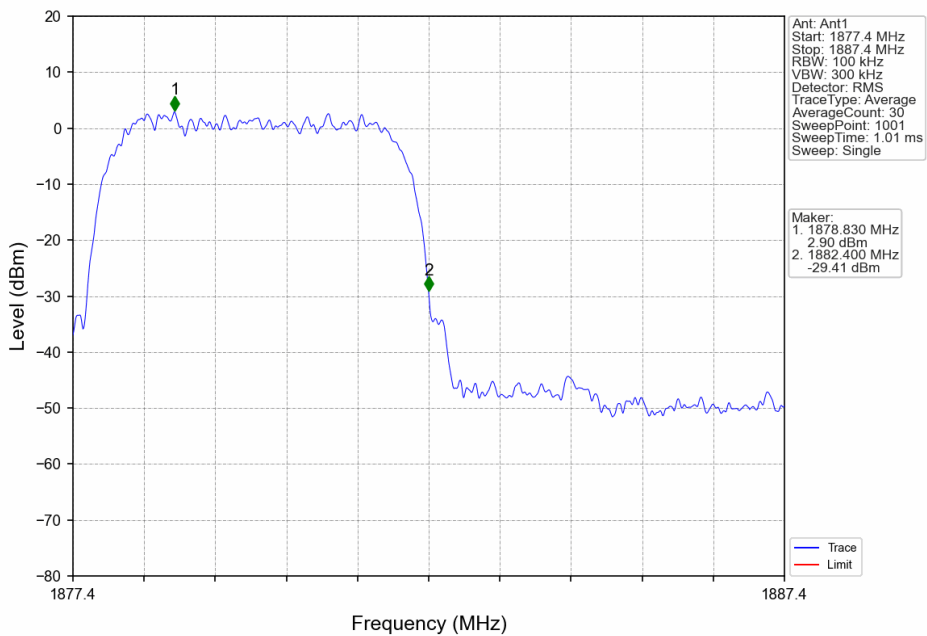




Band2_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV

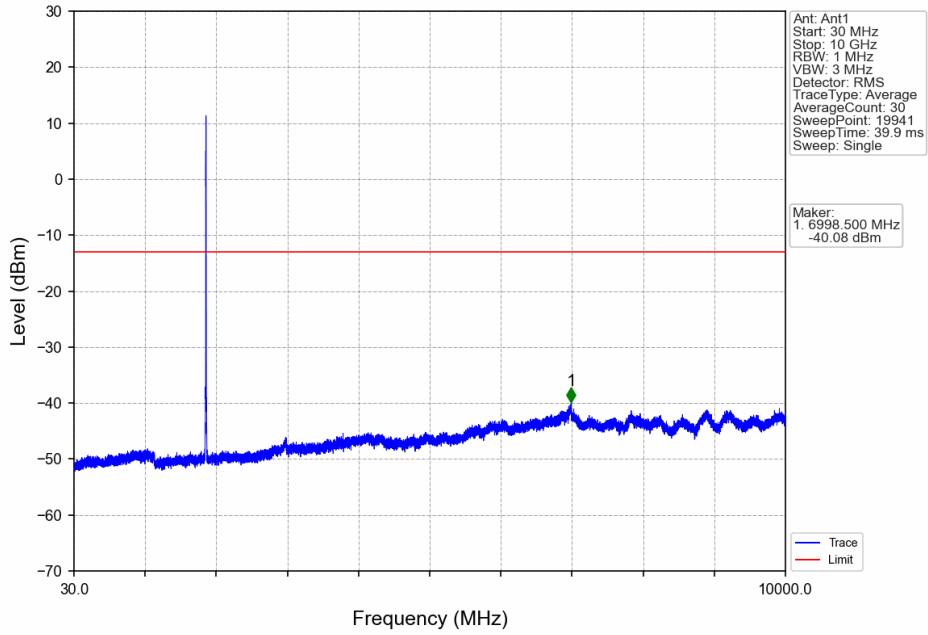


Band2_RMC_MCH_1880MHz_12.2kbps RMC_NTNV

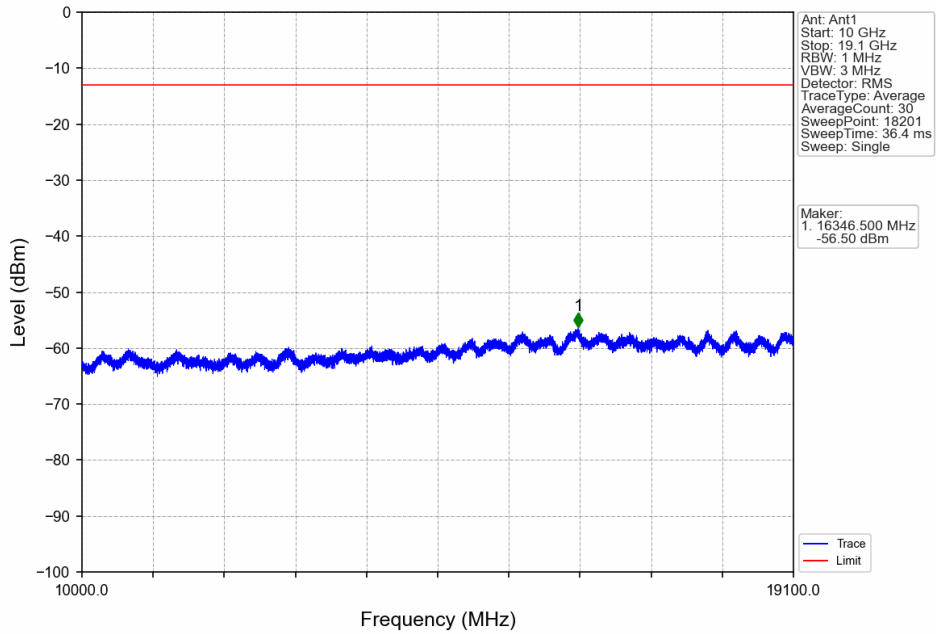




Band2_RMC_MCH_1880MHz_12.2kbps RMC_NTNV

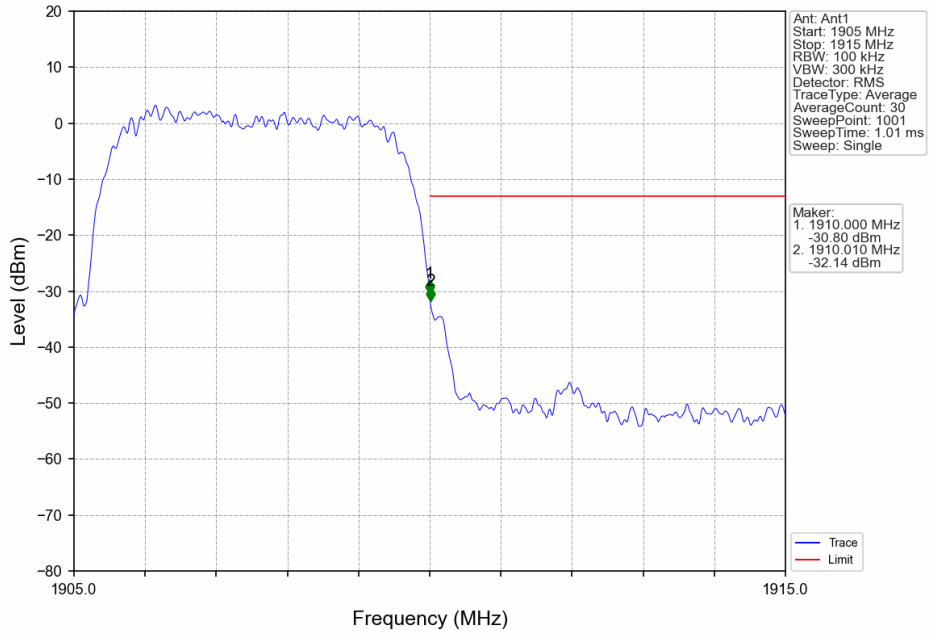


Band2_RMC_MCH_1880MHz_12.2kbps RMC_NTNV

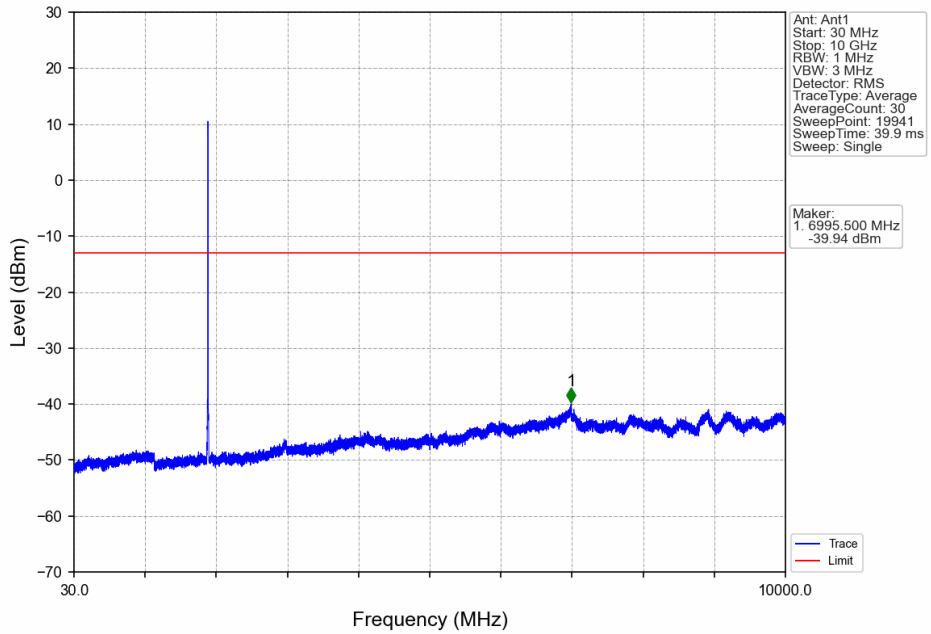




Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV

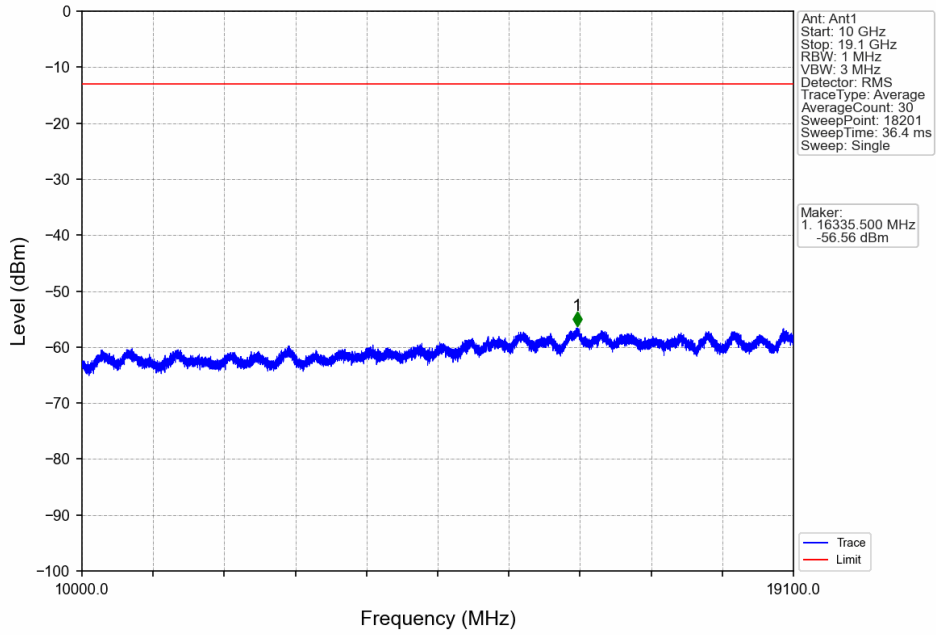


Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV

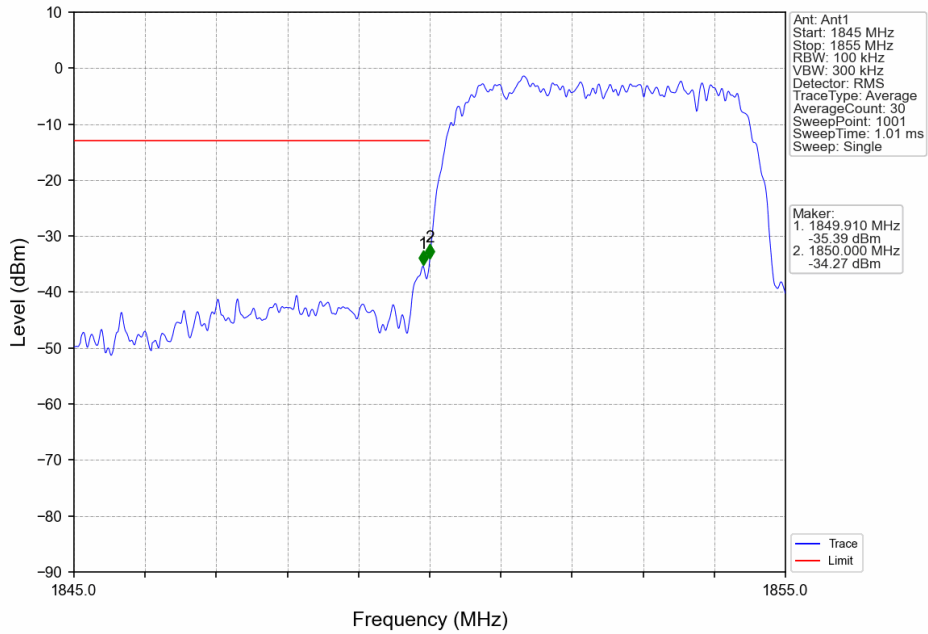




Band2_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV

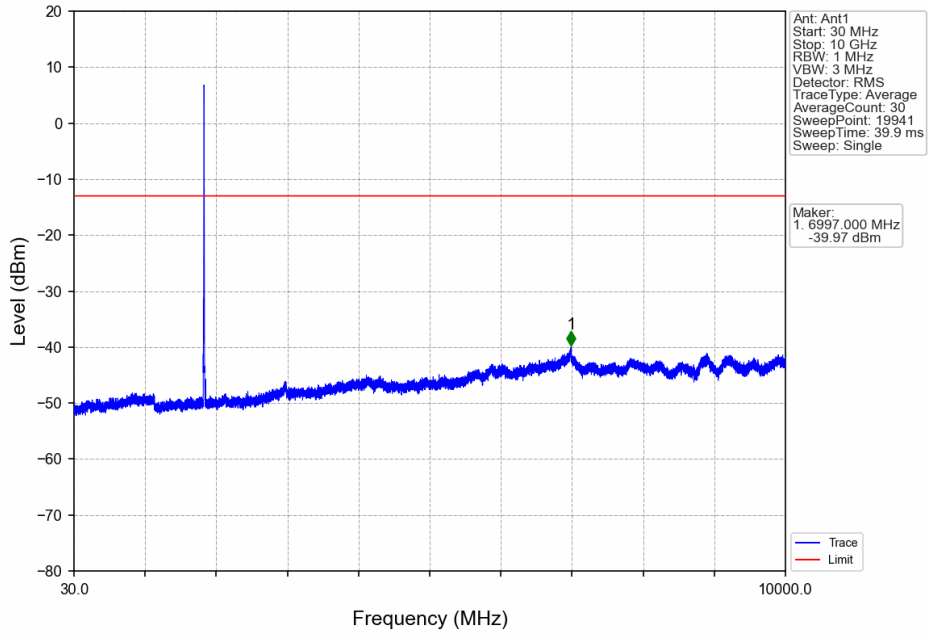


Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV

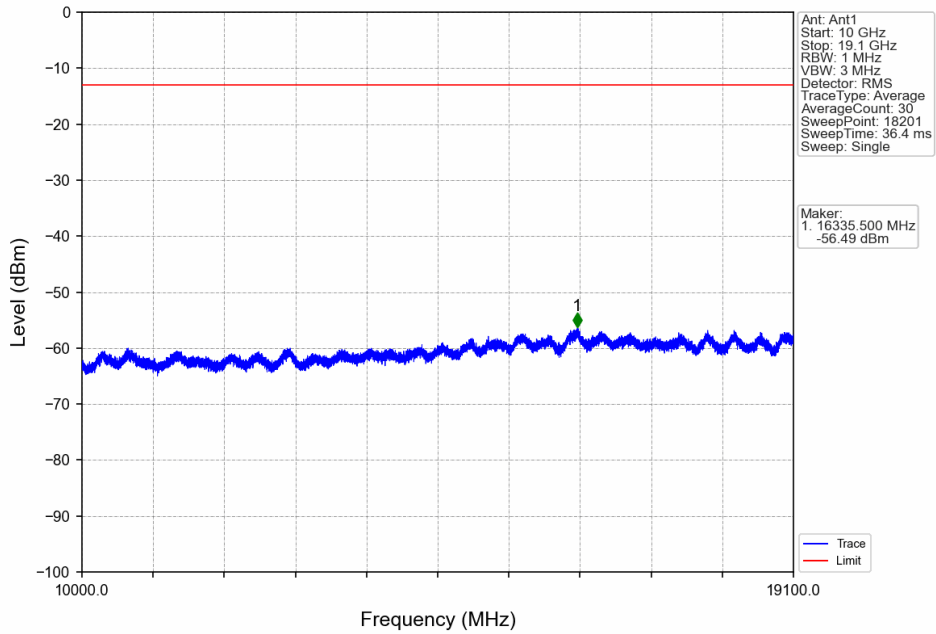




Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV

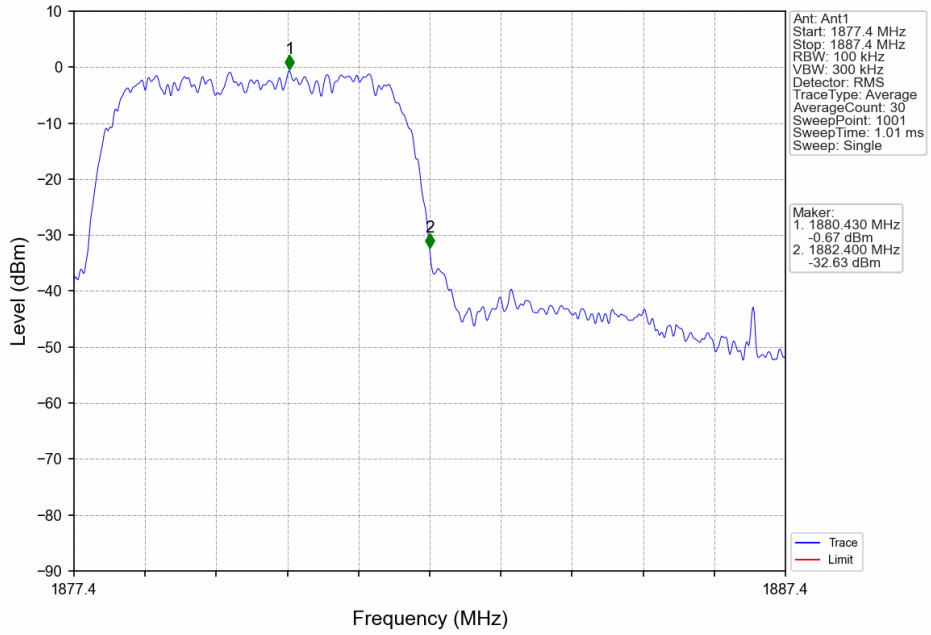


Band2_HSDPA_LCH_1852.4MHz_Subtest 1_NTNV

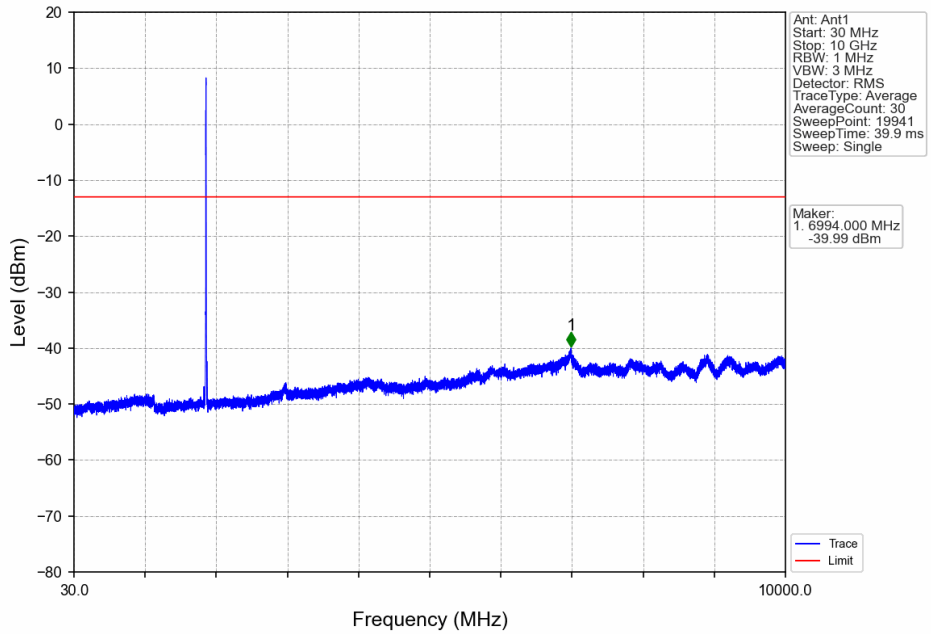




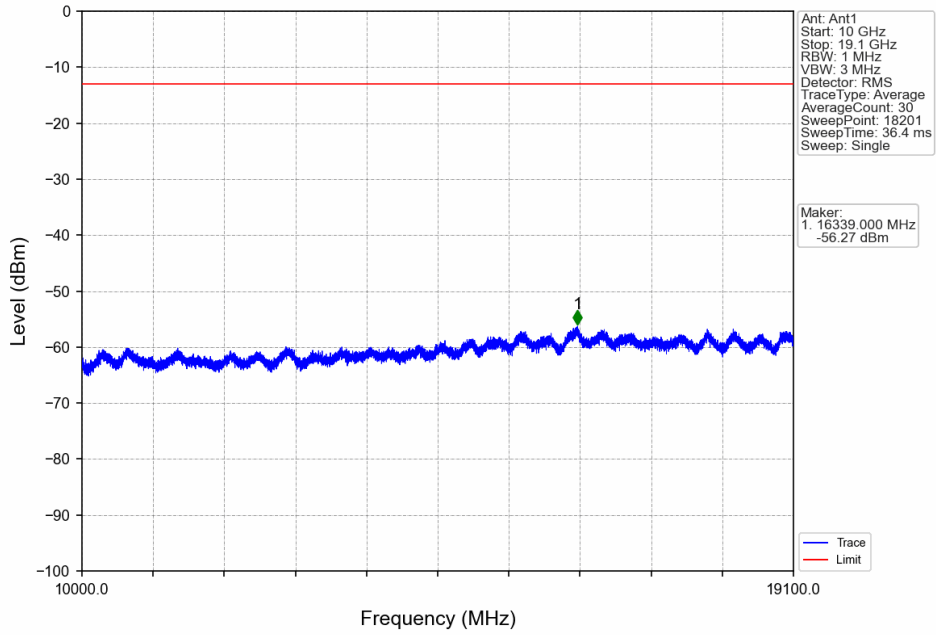
Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



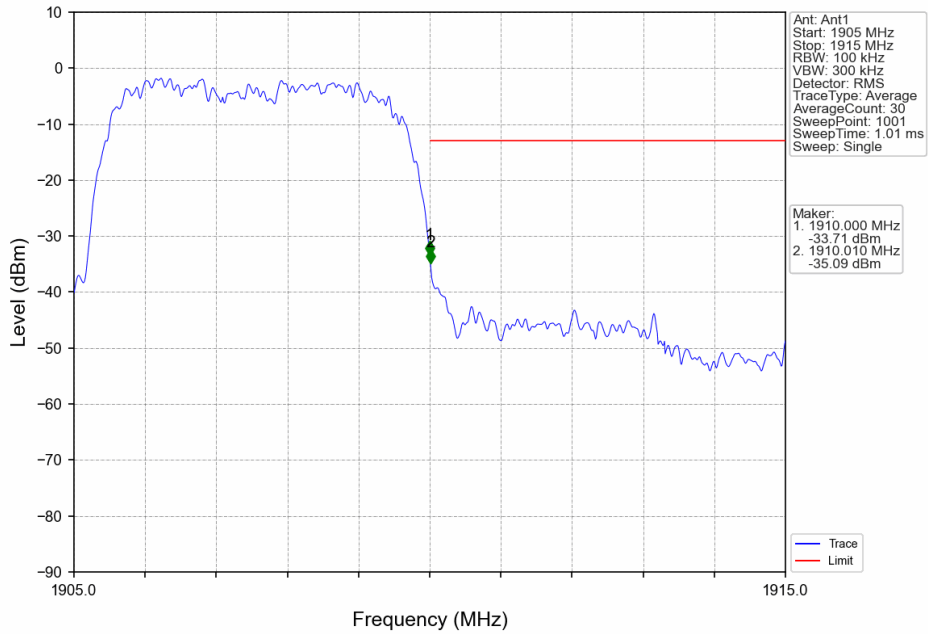
Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV



Band2_HSDPA_MCH_1880MHz_Subtest 1_NTNV

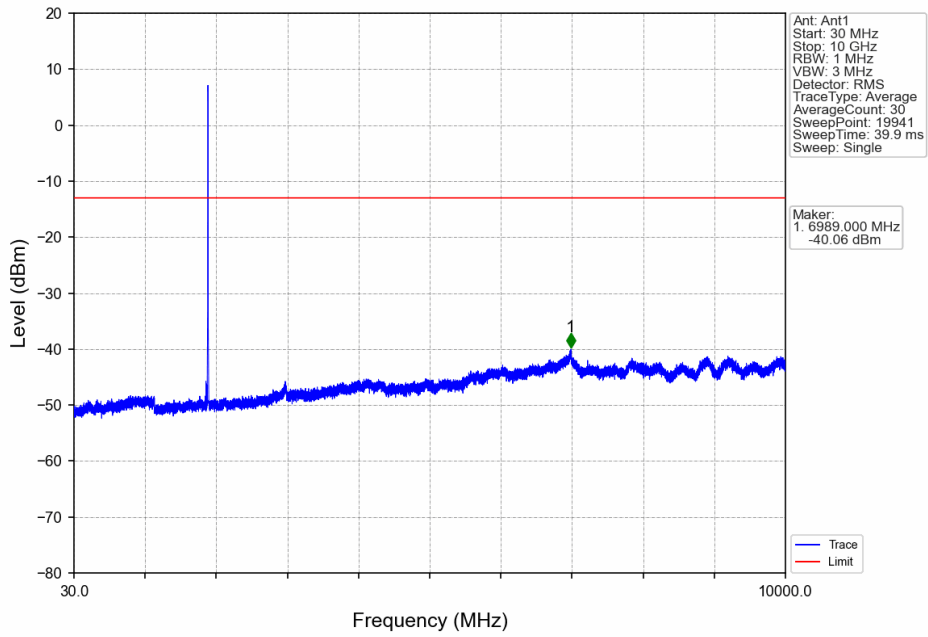


Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV

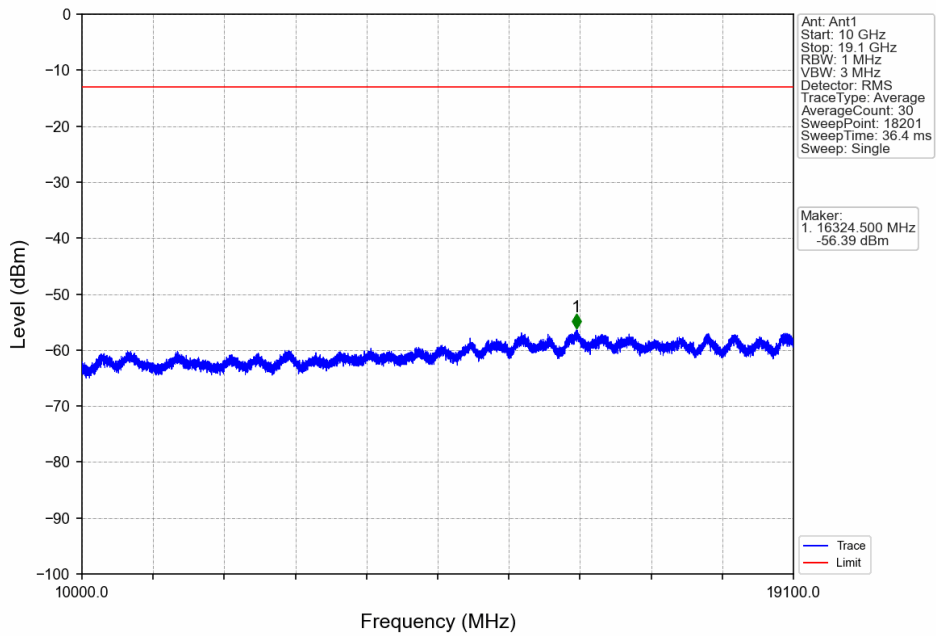




Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV

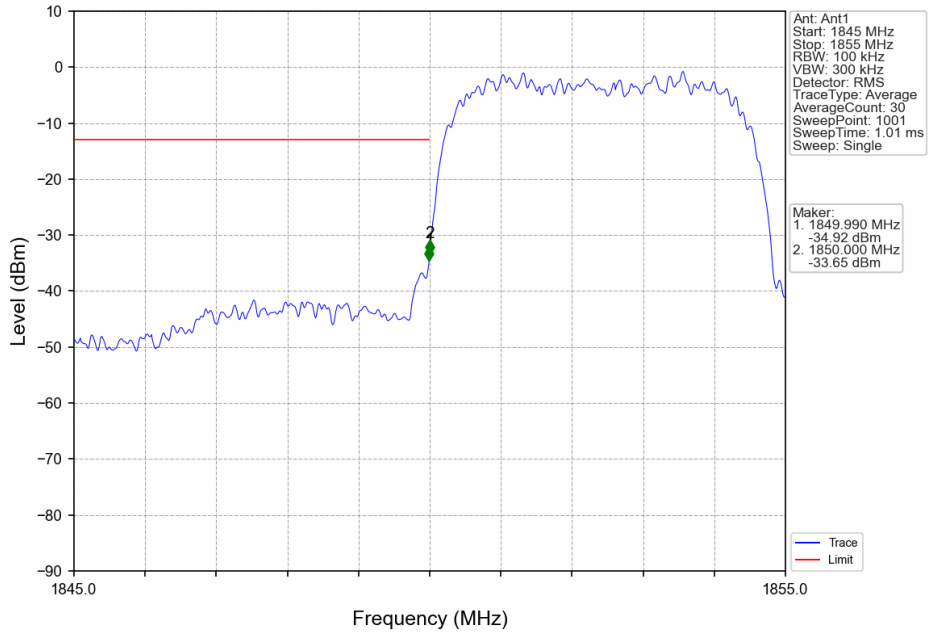


Band2_HSDPA_HCH_1907.6MHz_Subtest 1_NTNV

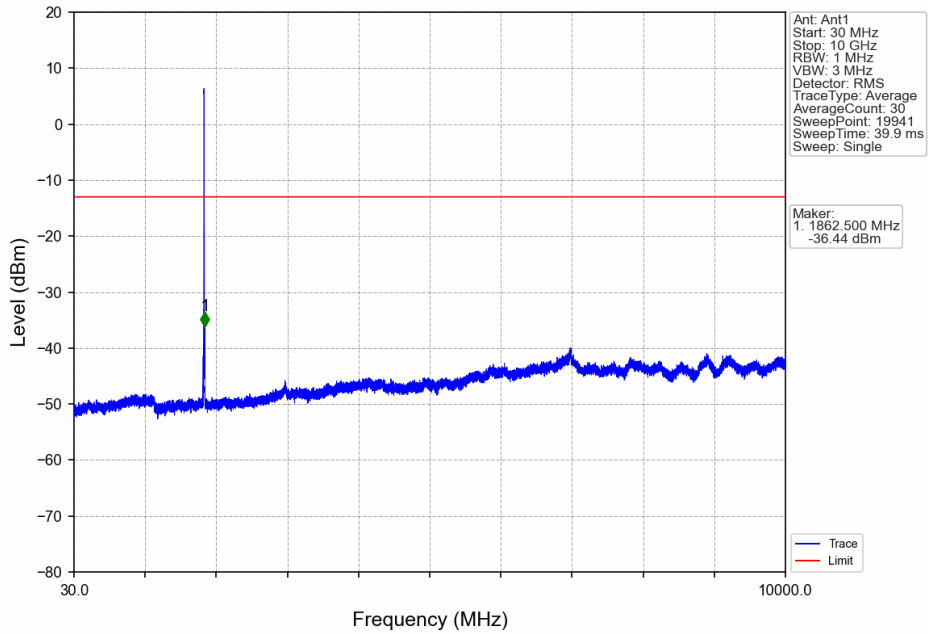




Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV

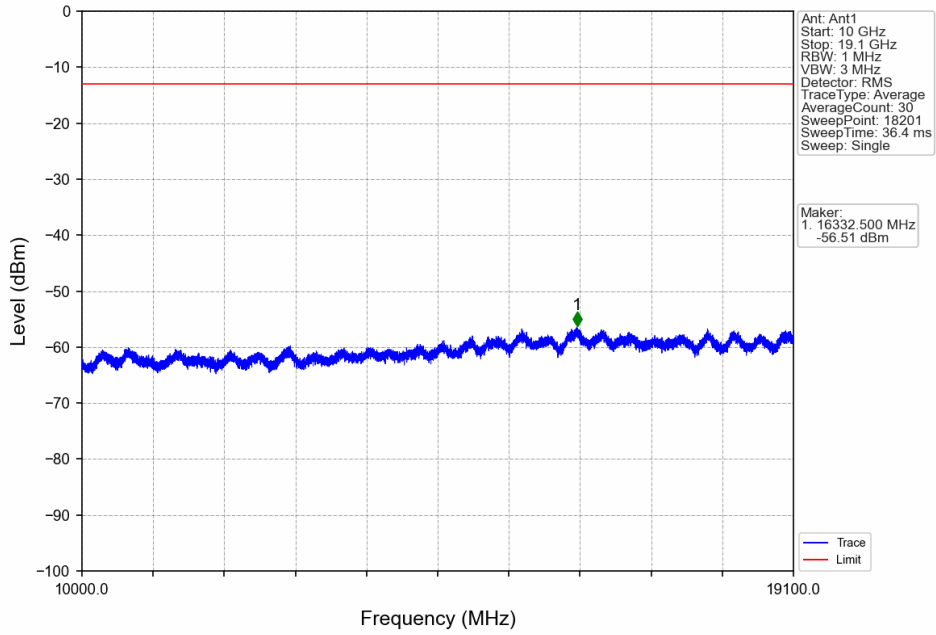


Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV

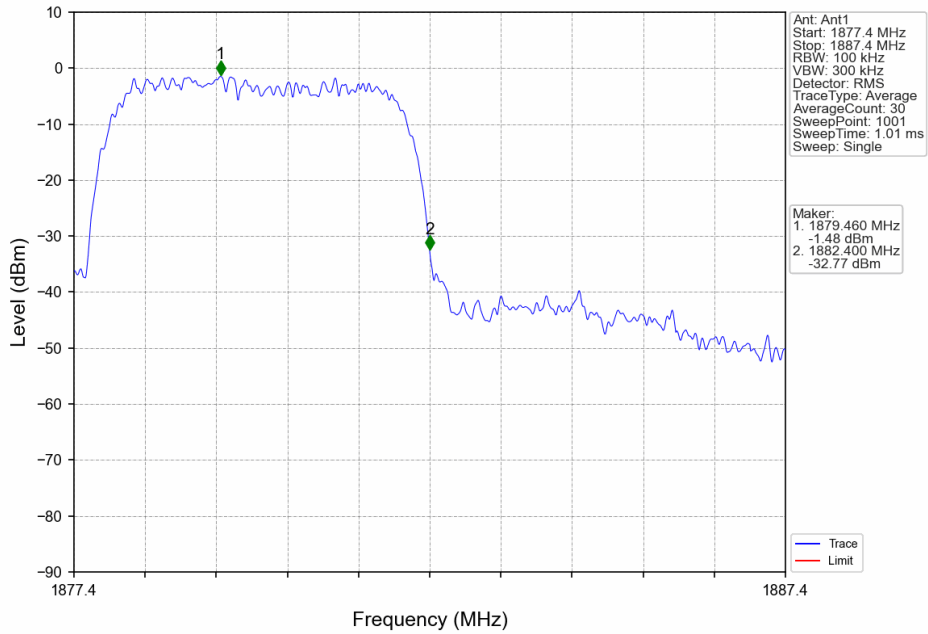




Band2_HSUPA_LCH_1852.4MHz_Subtest 1_NTNV

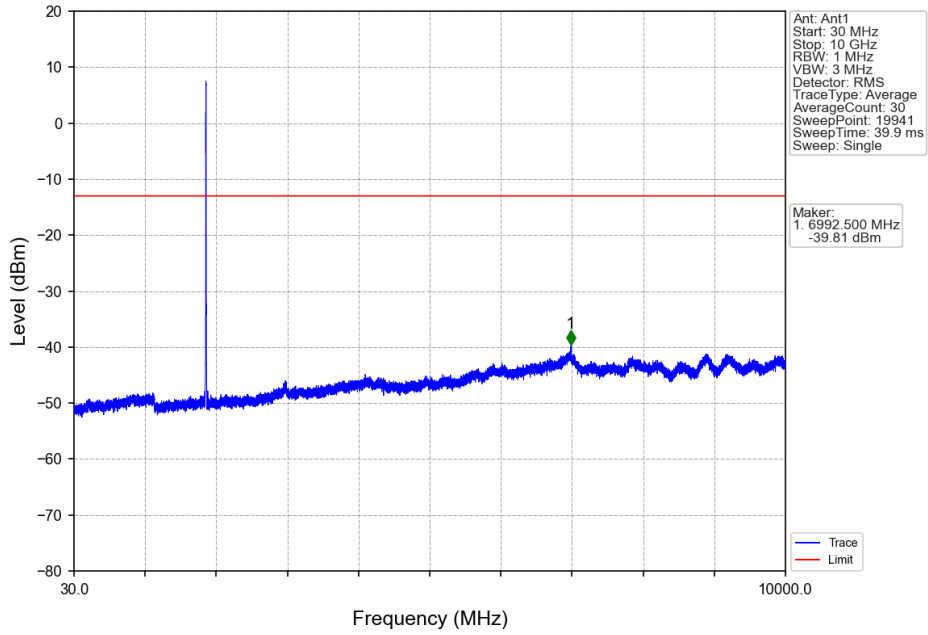


Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV

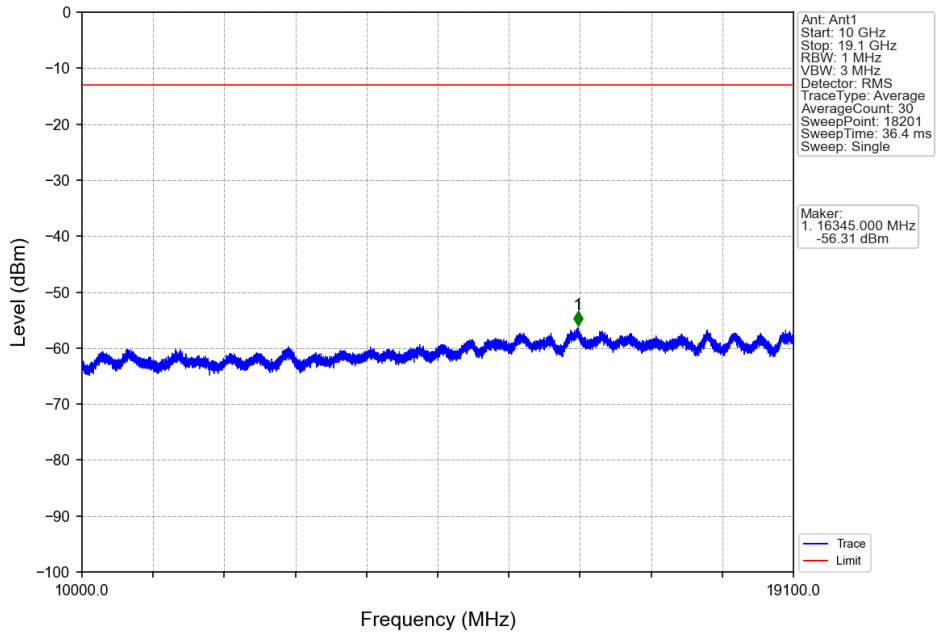




Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV

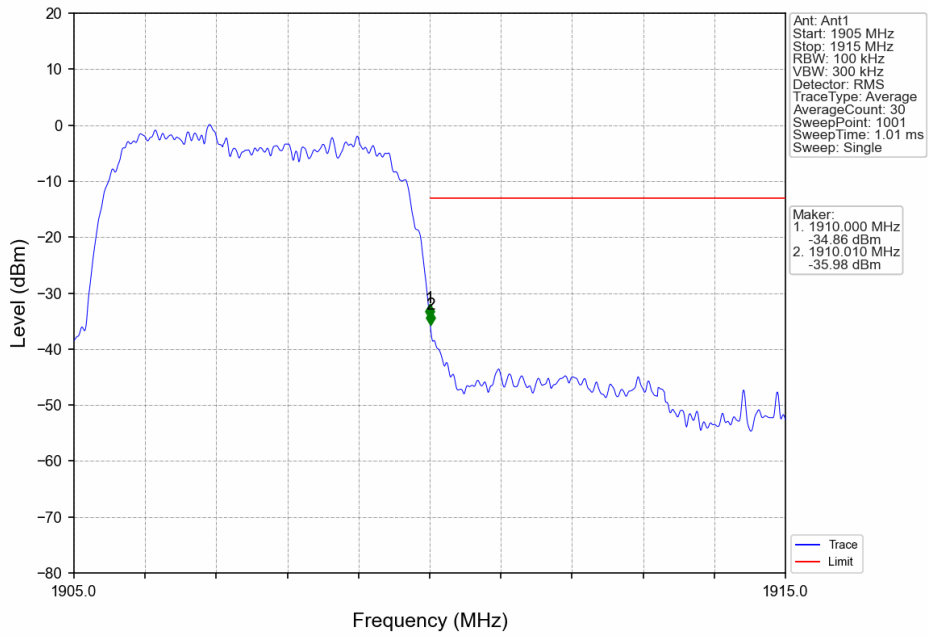


Band2_HSUPA_MCH_1880MHz_Subtest 1_NTNV





Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV



Band2_HSUPA_HCH_1907.6MHz_Subtest 1_NTNV

