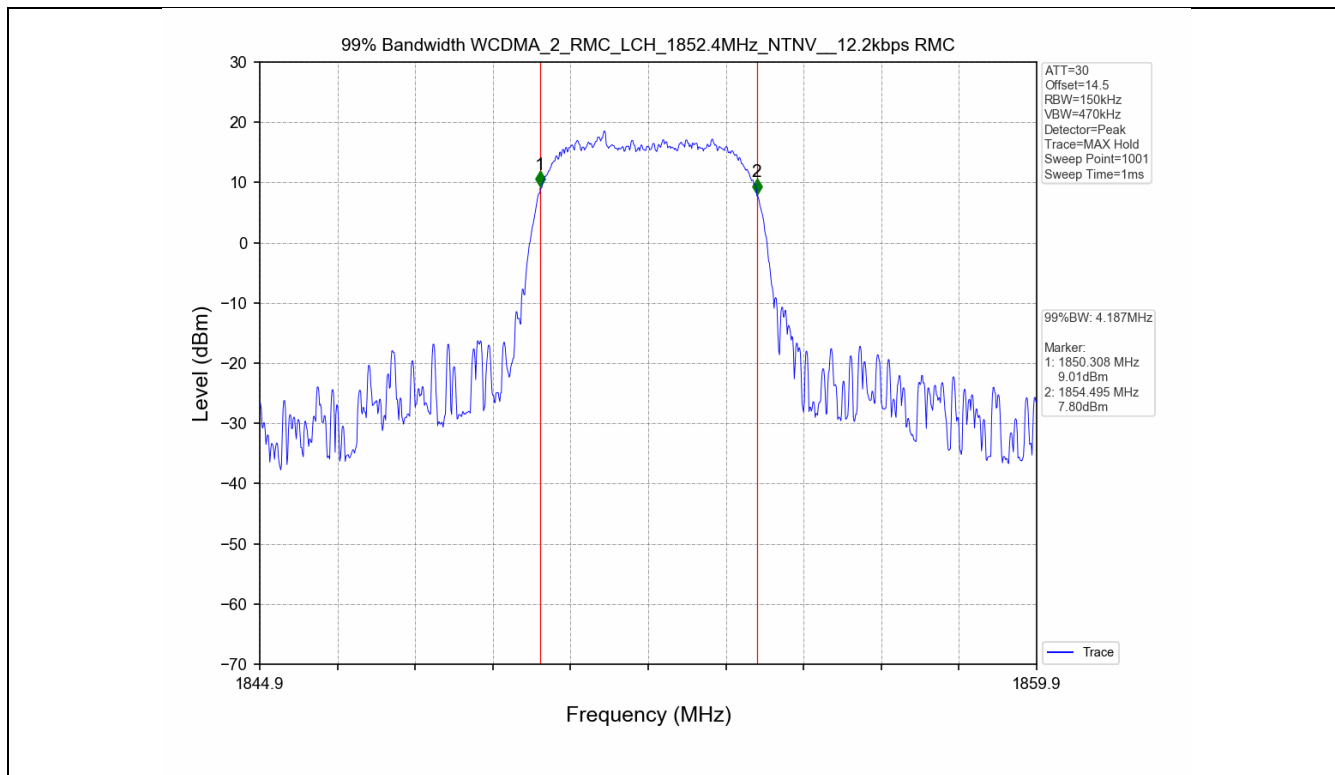


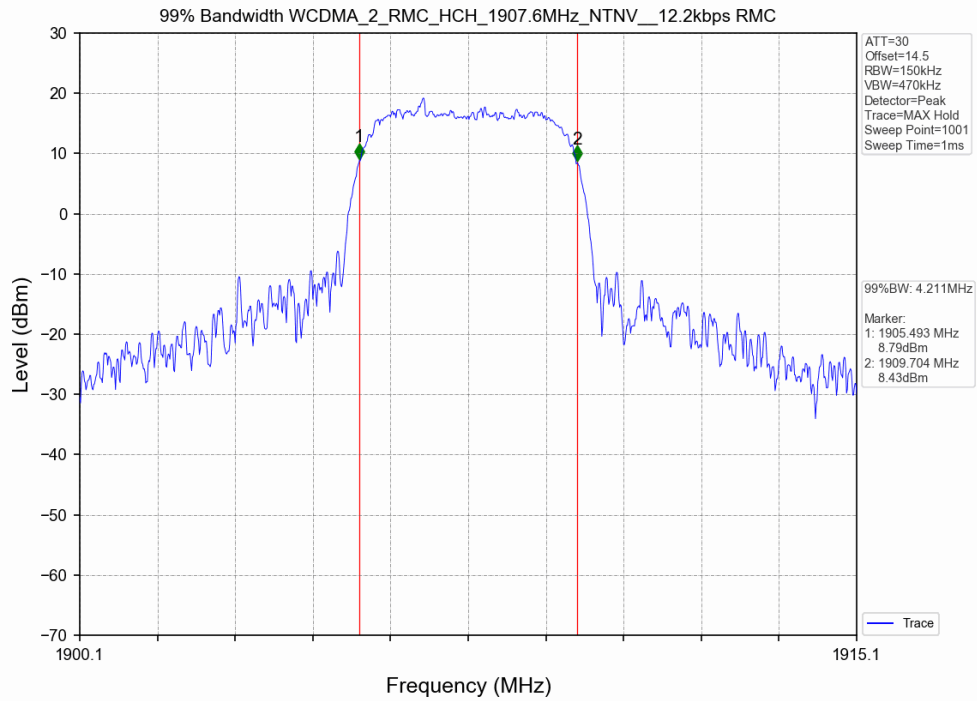
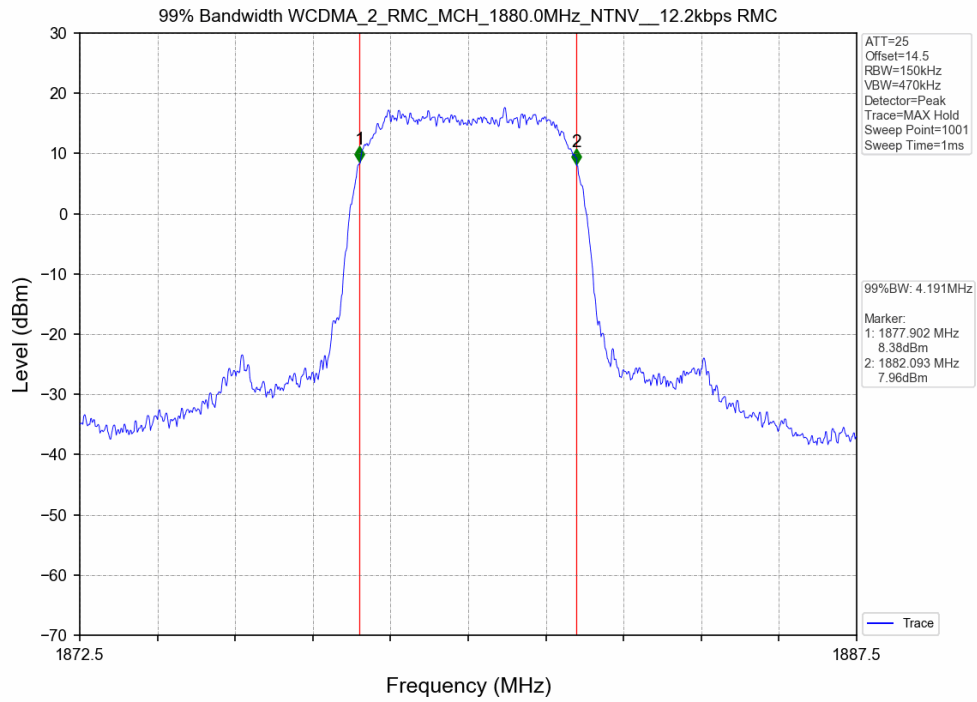
### Appendix F for KSEM210700112906

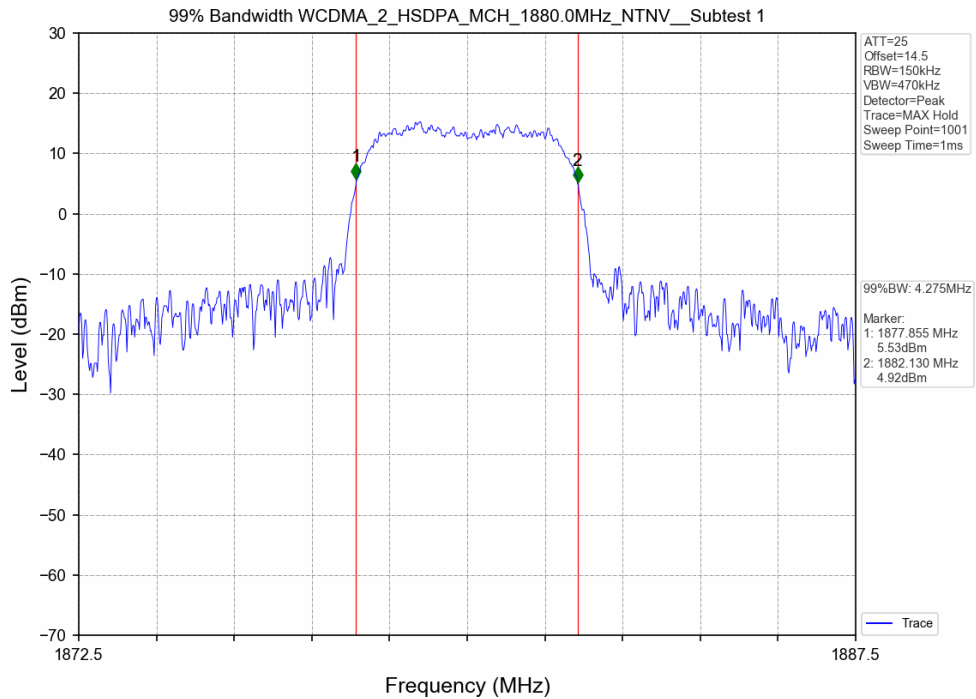
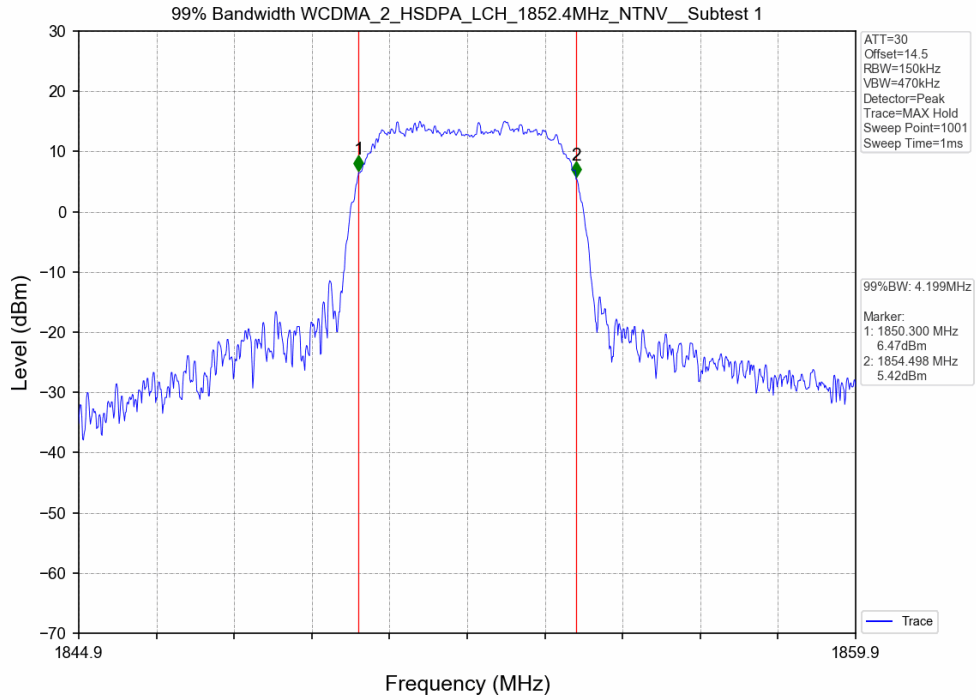
#### 1.99% & 26dB Bandwidth

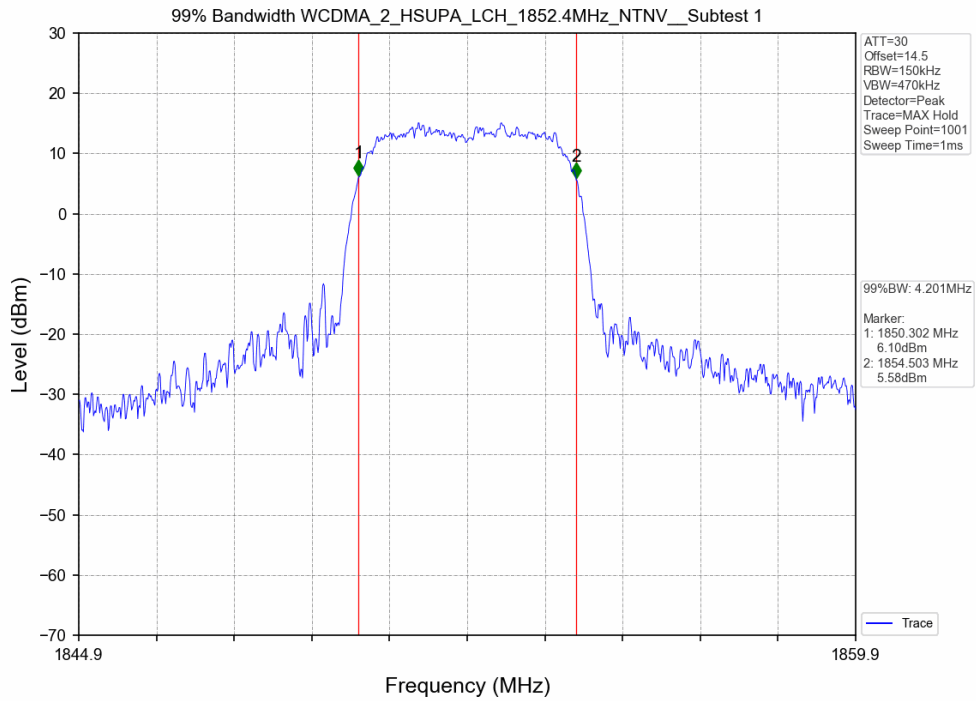
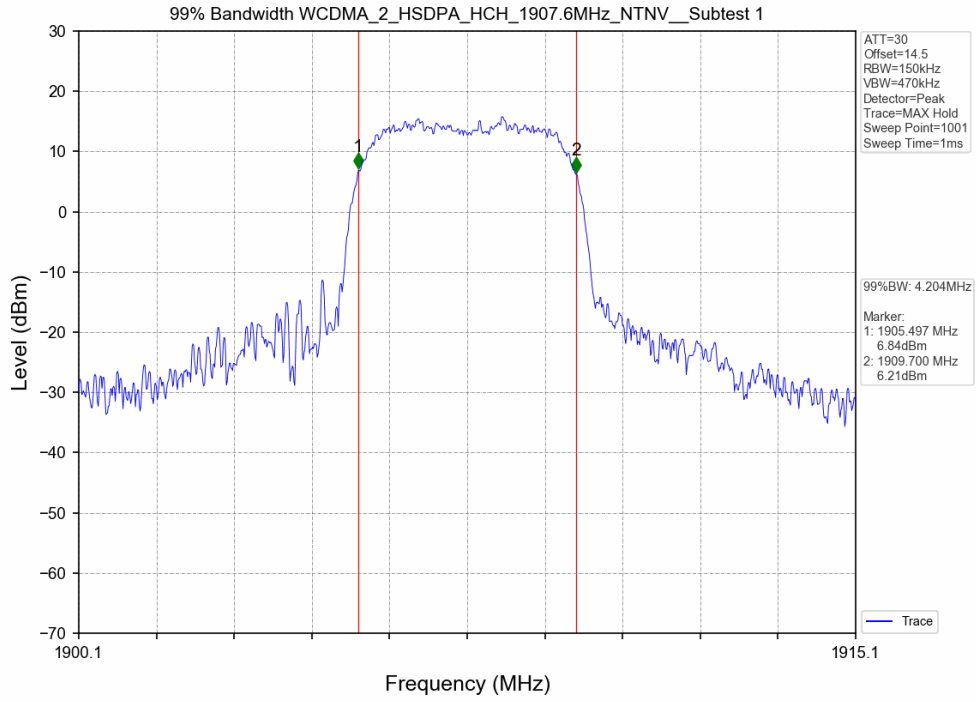
#### Band 2

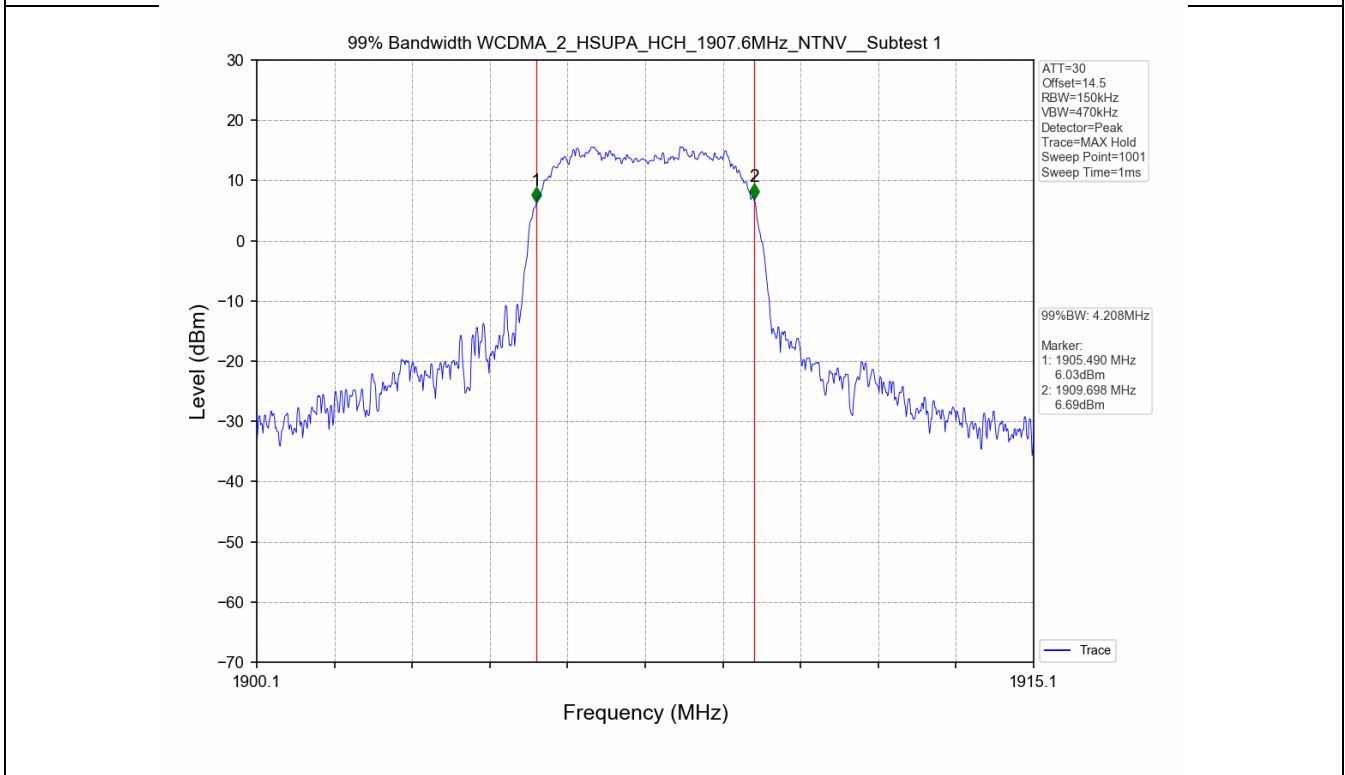
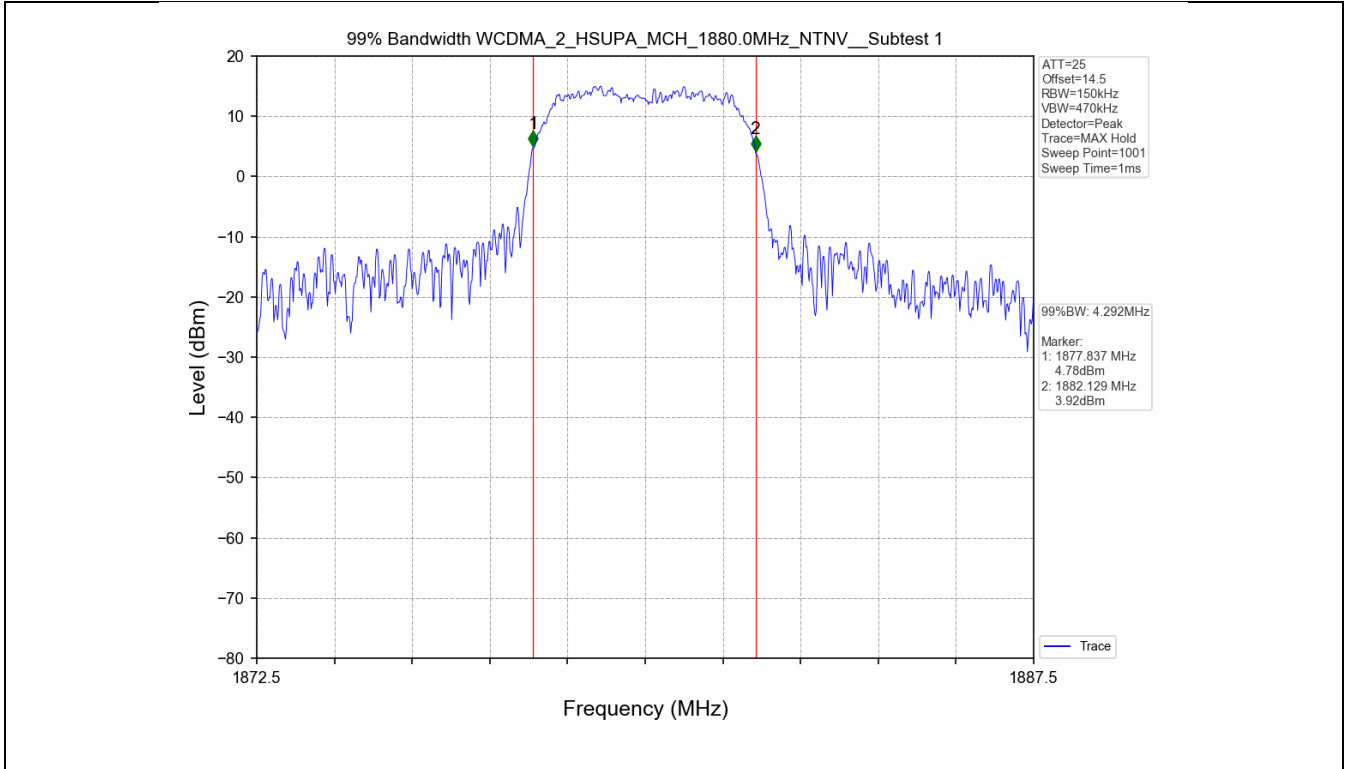
Test Mode	99% Occupied Bandwidth (MHz)			Limit	Verdict
	LCH	MCH	HCH		
HSUPA	4.201	4.292	4.208	N/A	PASS
HSDPA	4.199	4.275	4.204	N/A	PASS
RMC	4.187	4.191	4.211	N/A	PASS



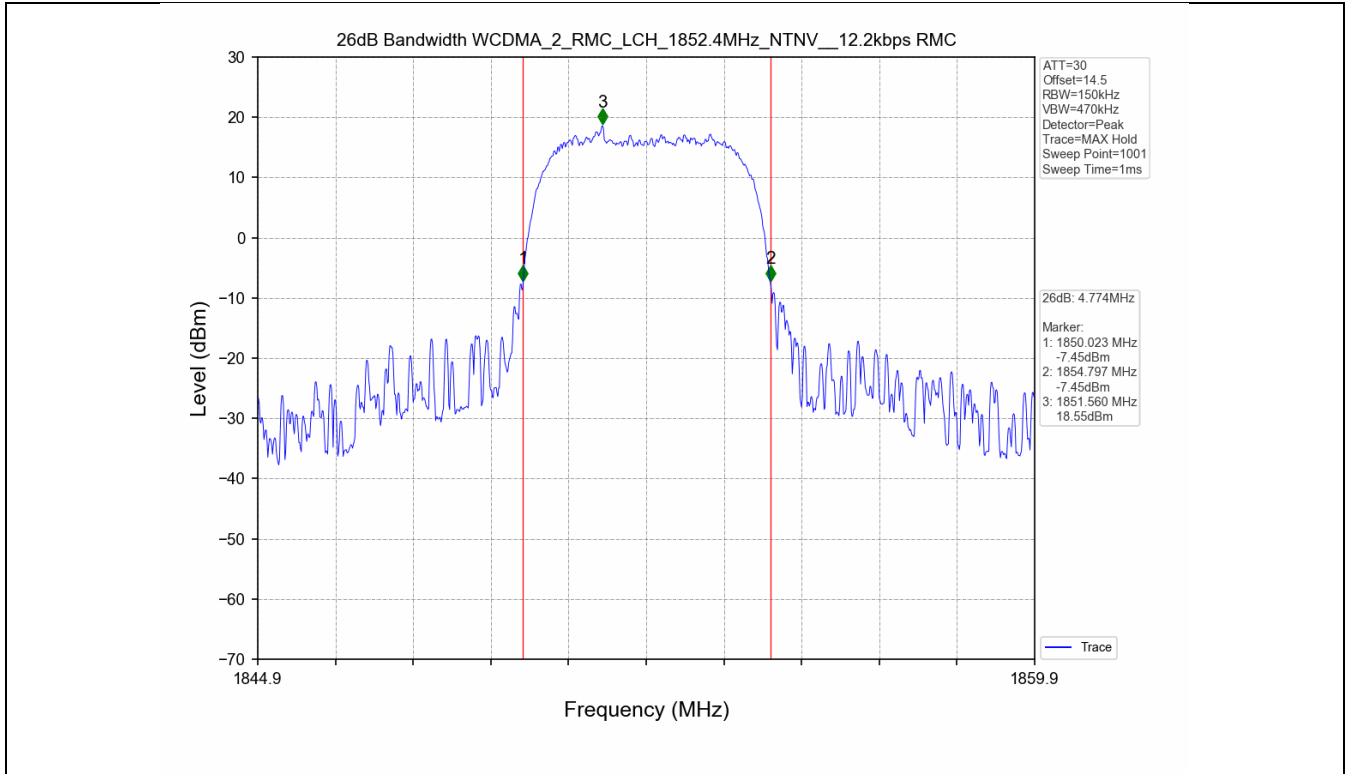


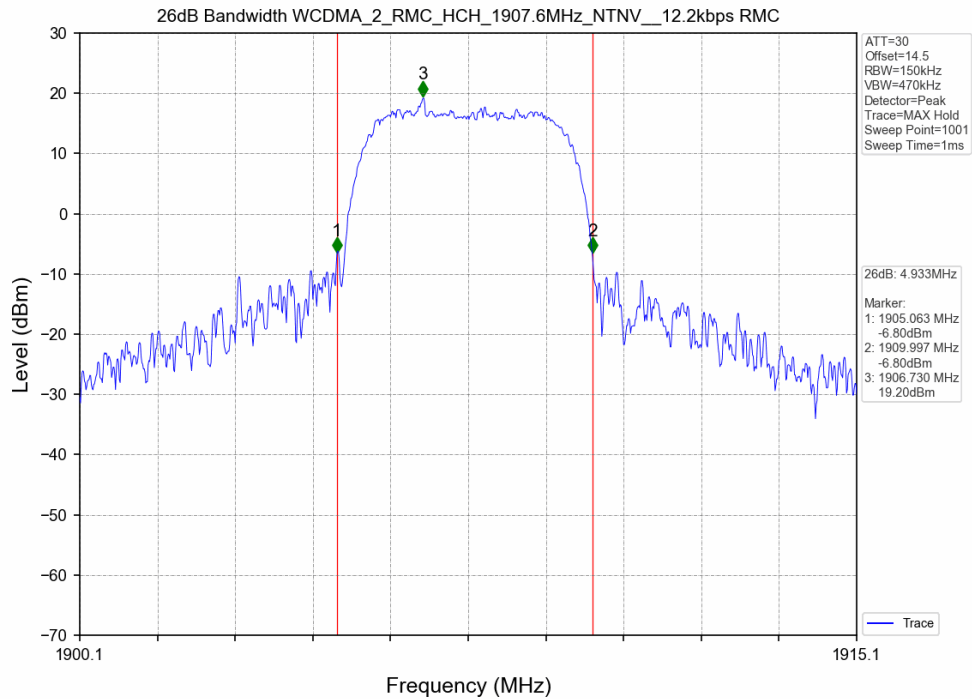
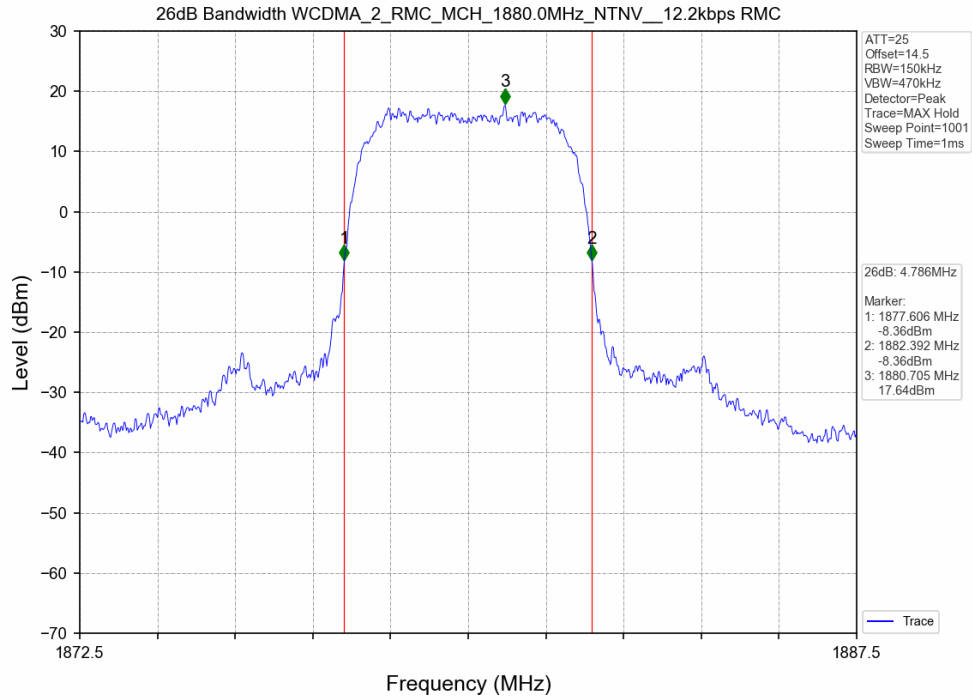


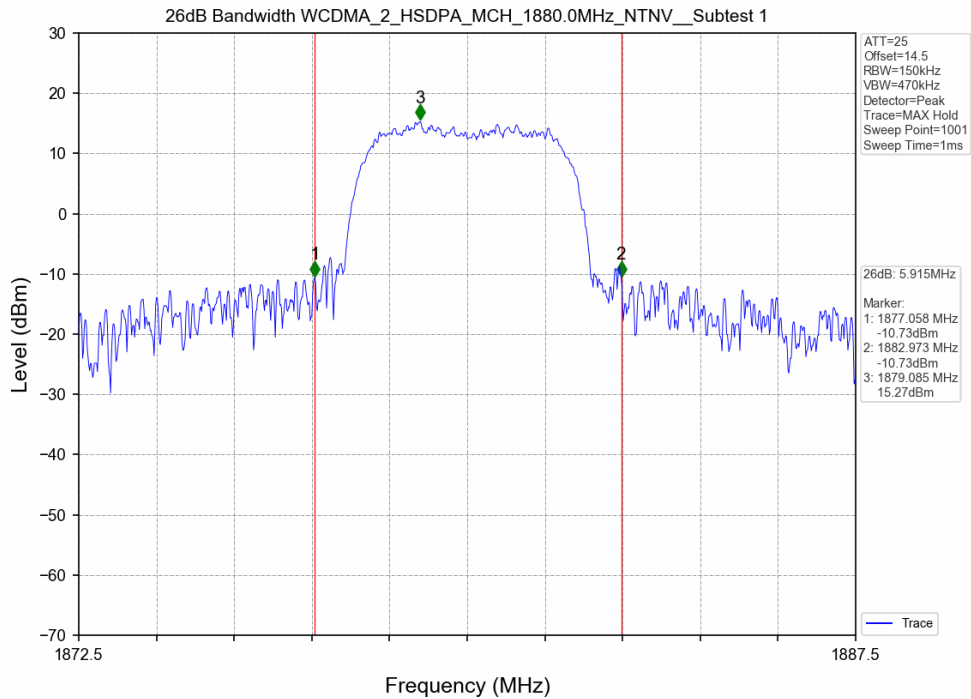
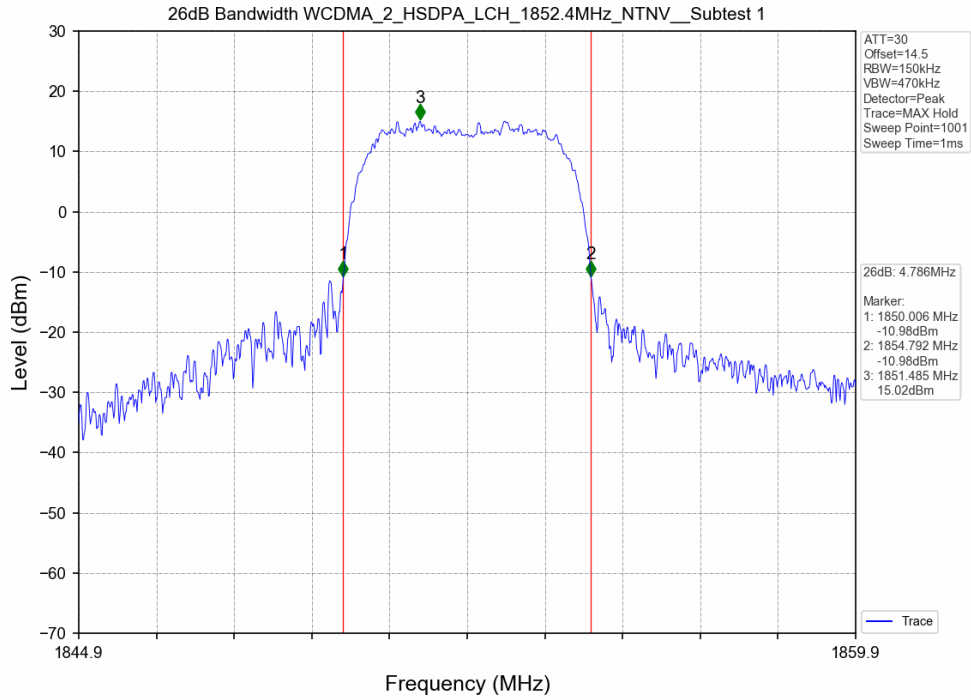




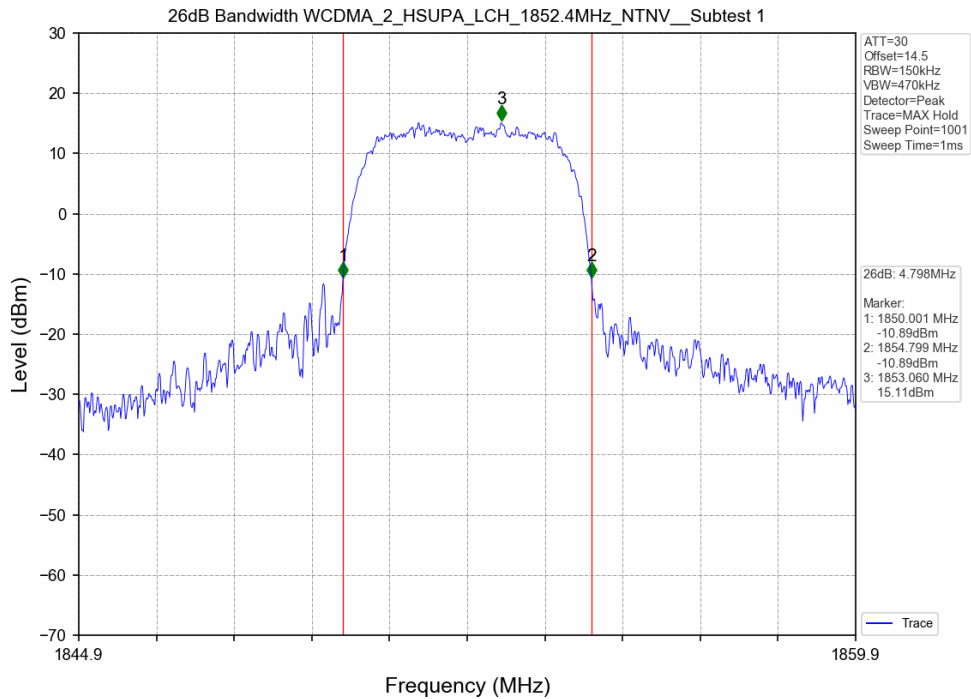
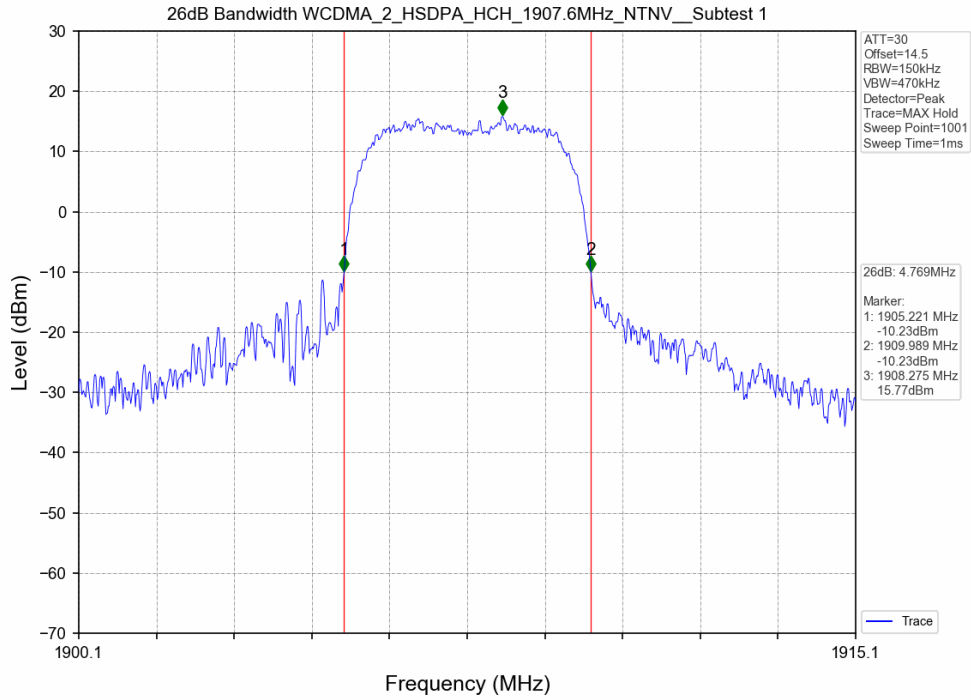
Test Mode	26dB Bandwidth (MHz)			Limit	Verdict
	LCH	MCH	HCH		
HSUPA	4.798	7.127	4.781	N/A	PASS
HSDPA	4.786	5.915	4.769	N/A	PASS
RMC	4.774	4.786	4.933	N/A	PASS

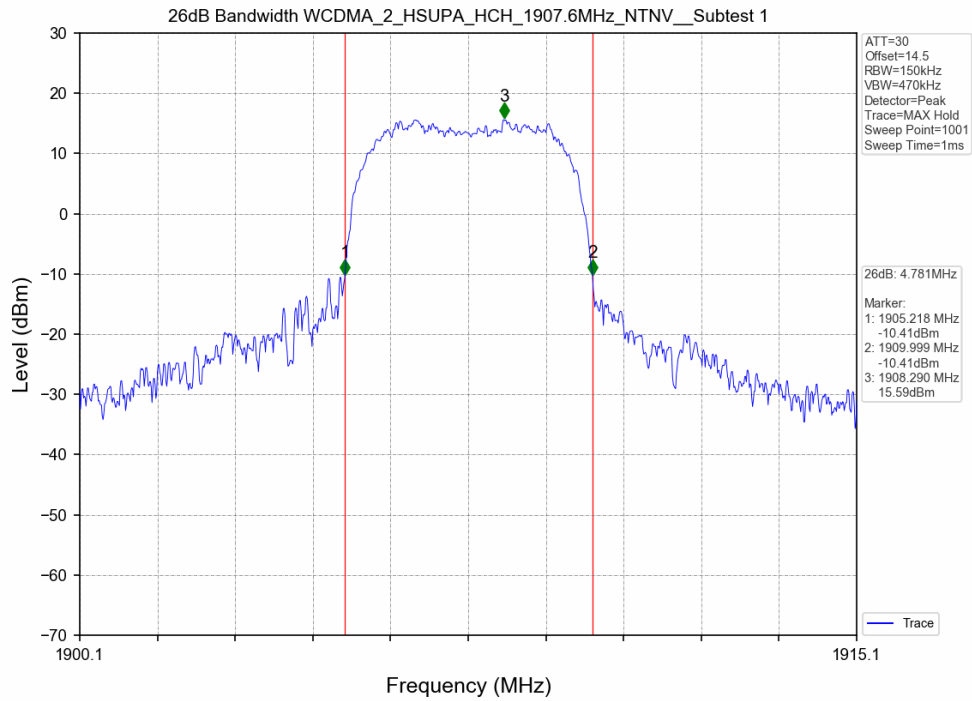
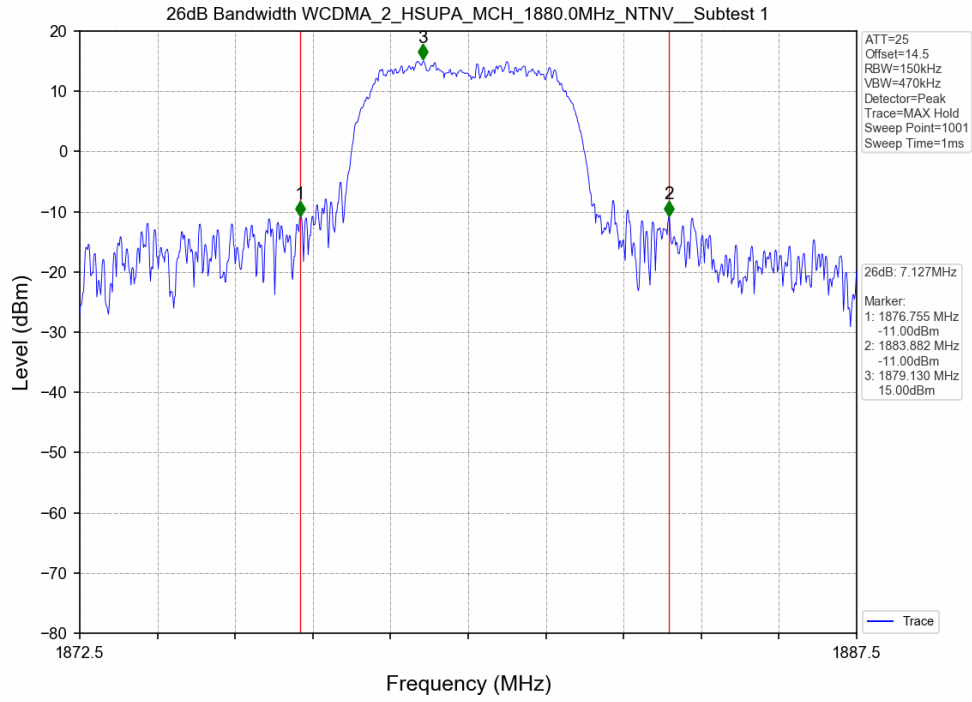






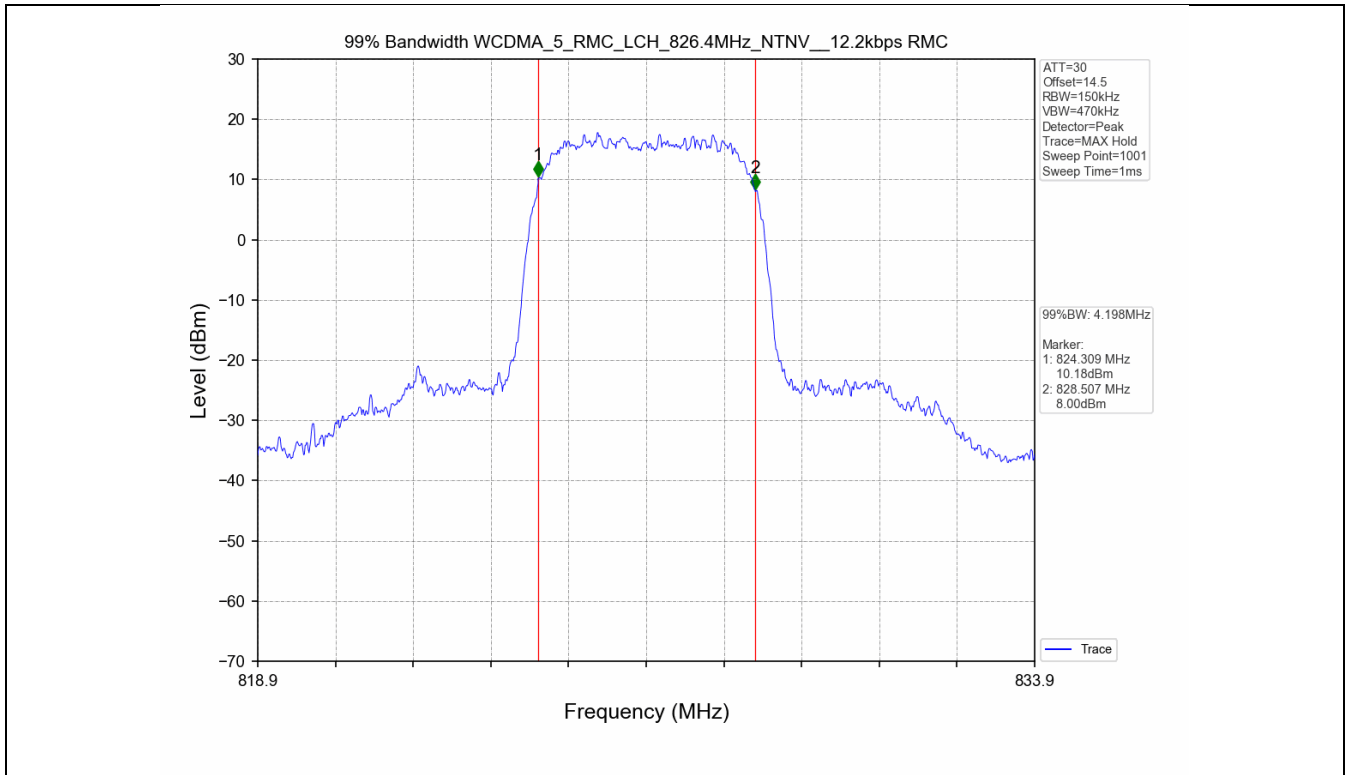


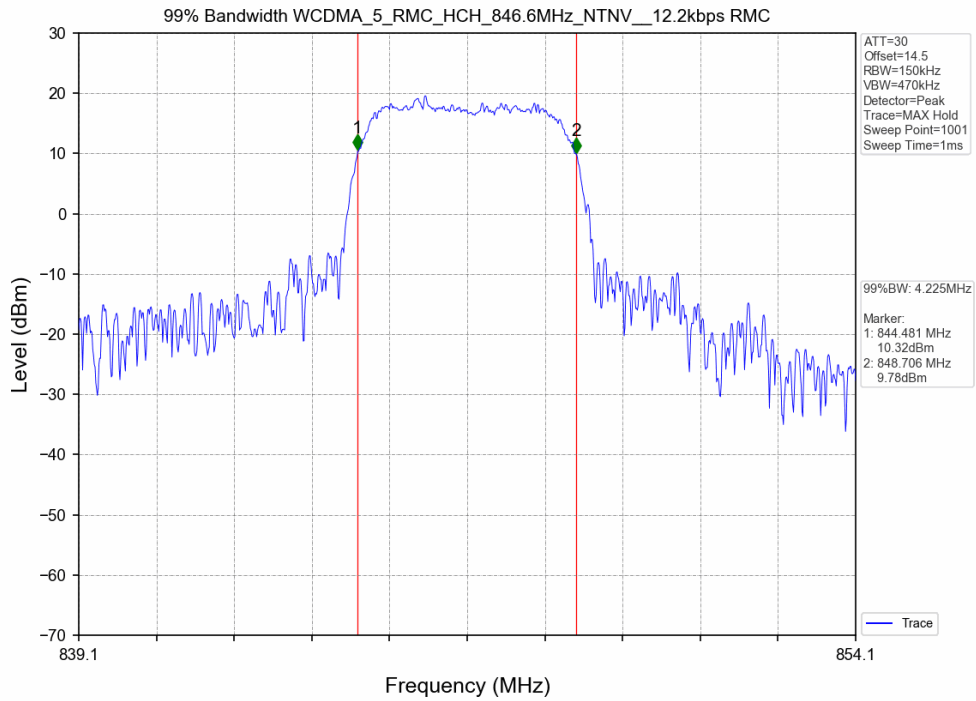
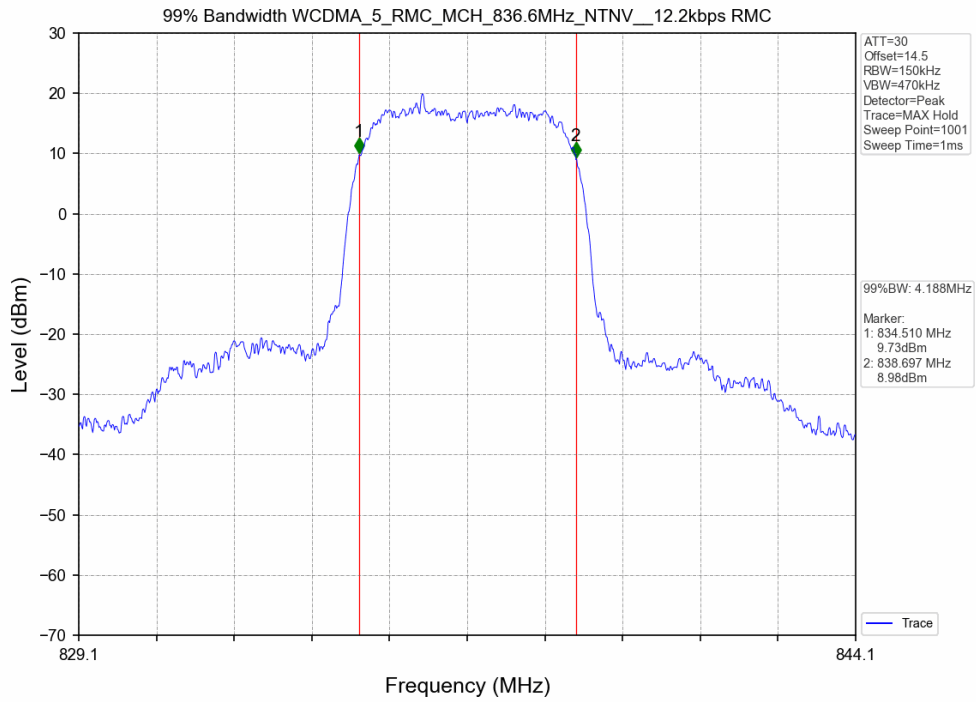


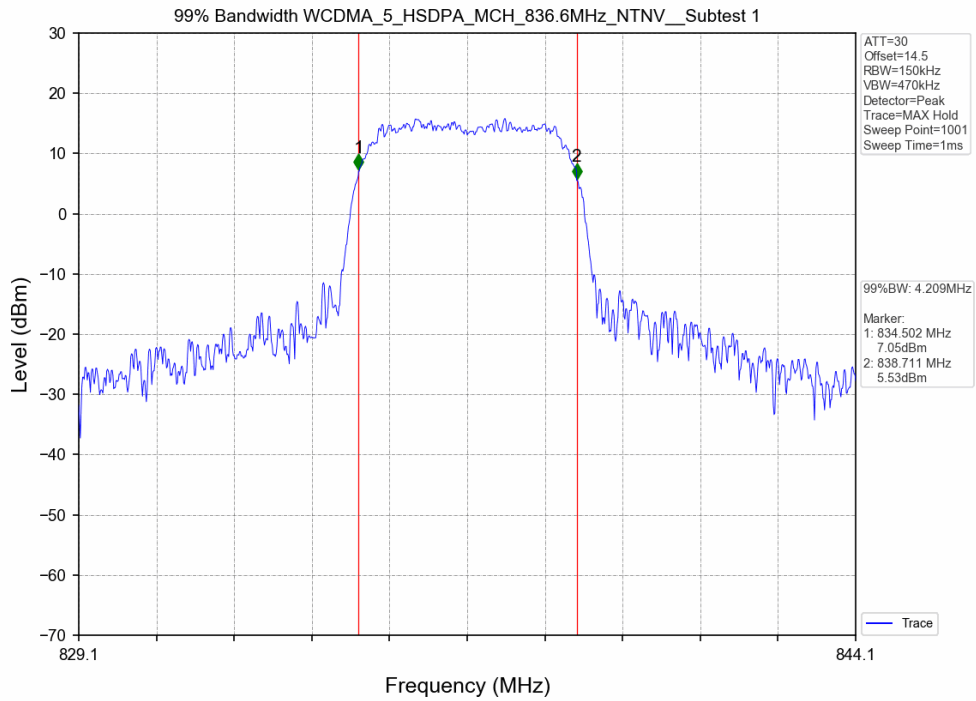
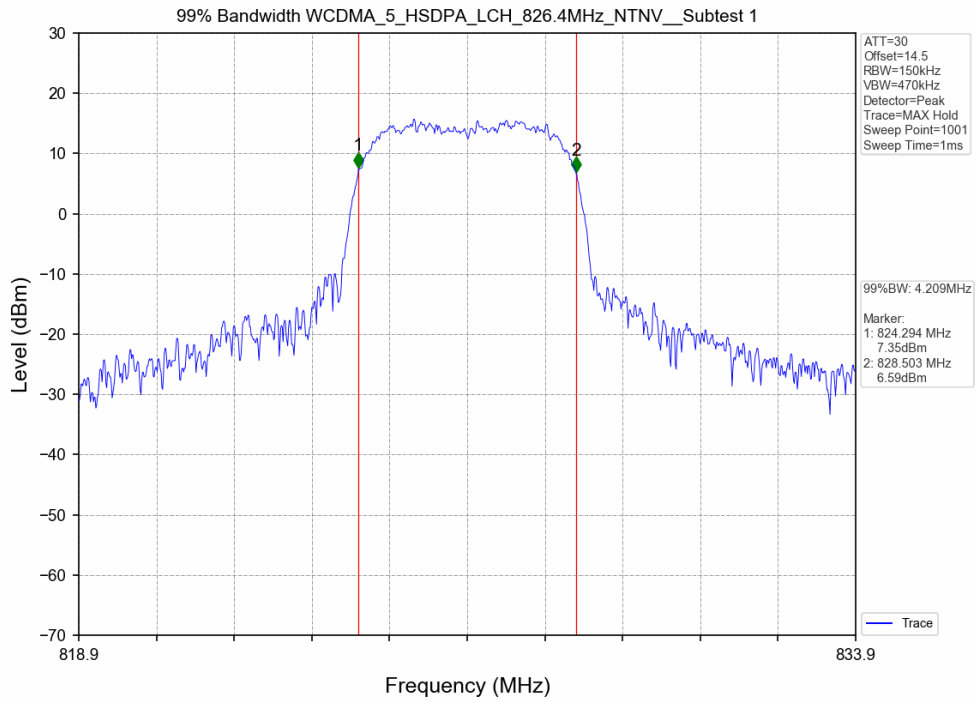


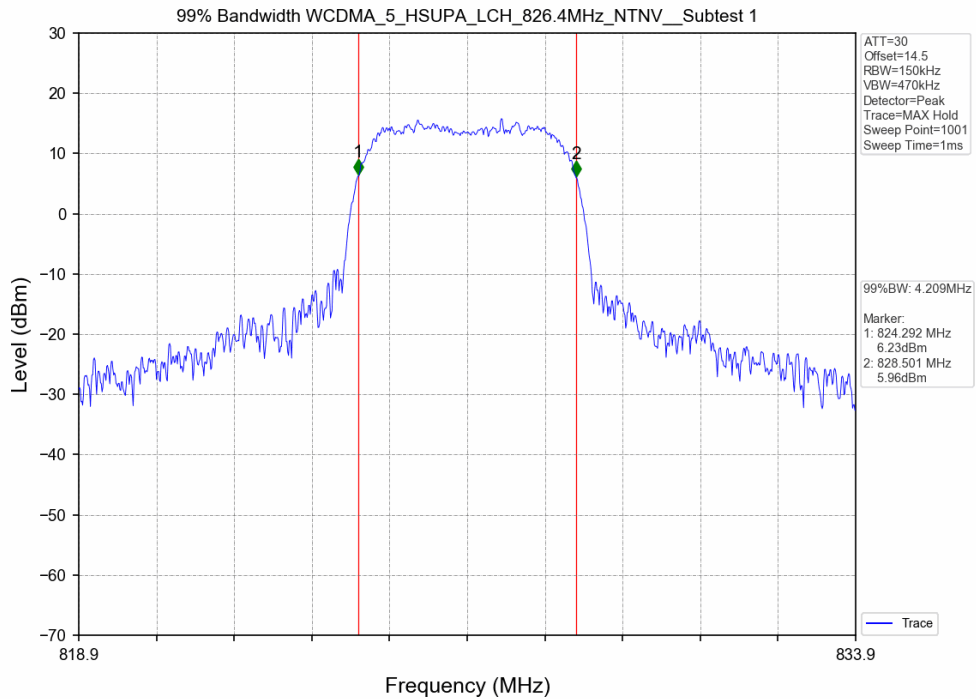
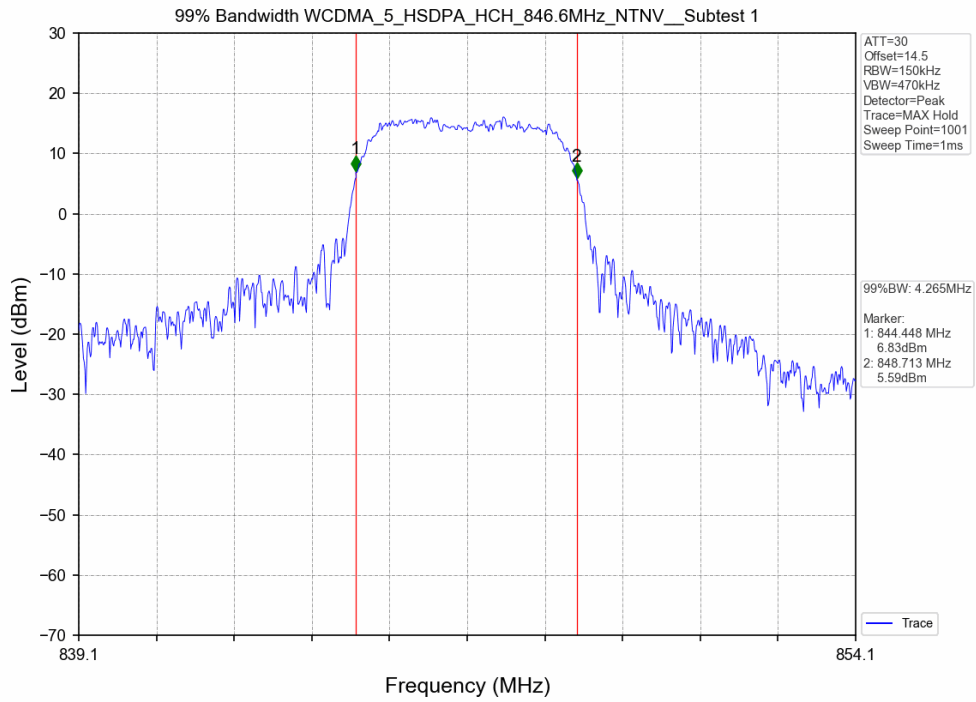
Band 5

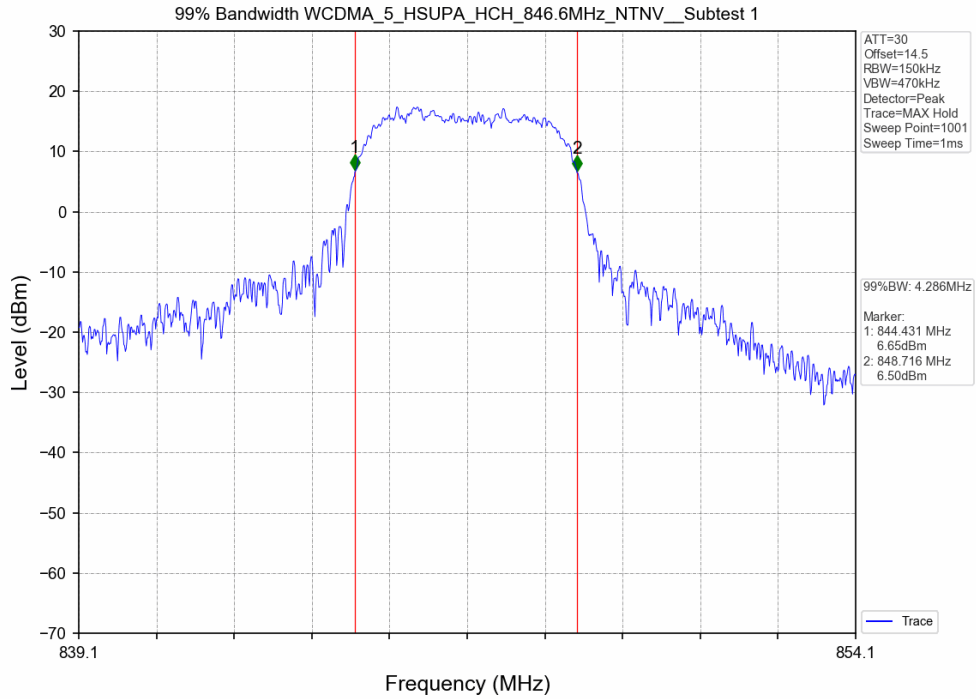
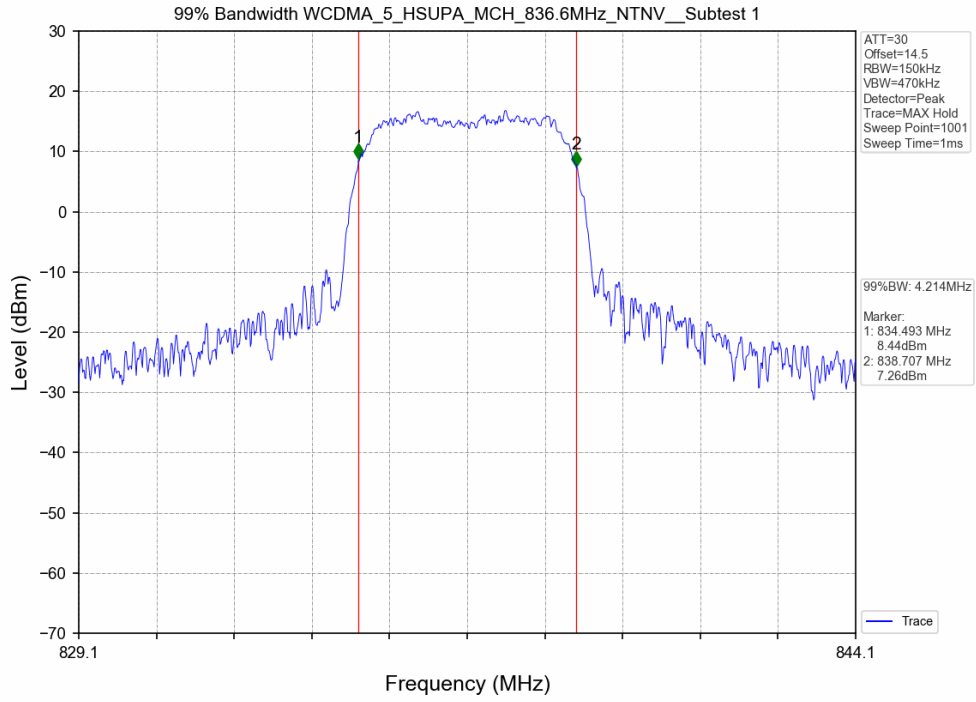
Test Band: 5					
Test Mode	99% Occupied Bandwidth (MHz)			Limit	Verdict
	LCH	MCH	HCH		
HSUPA	4.209	4.214	4.286	N/A	PASS
HSDPA	4.209	4.209	4.265	N/A	PASS
RMC	4.198	4.188	4.225	N/A	PASS



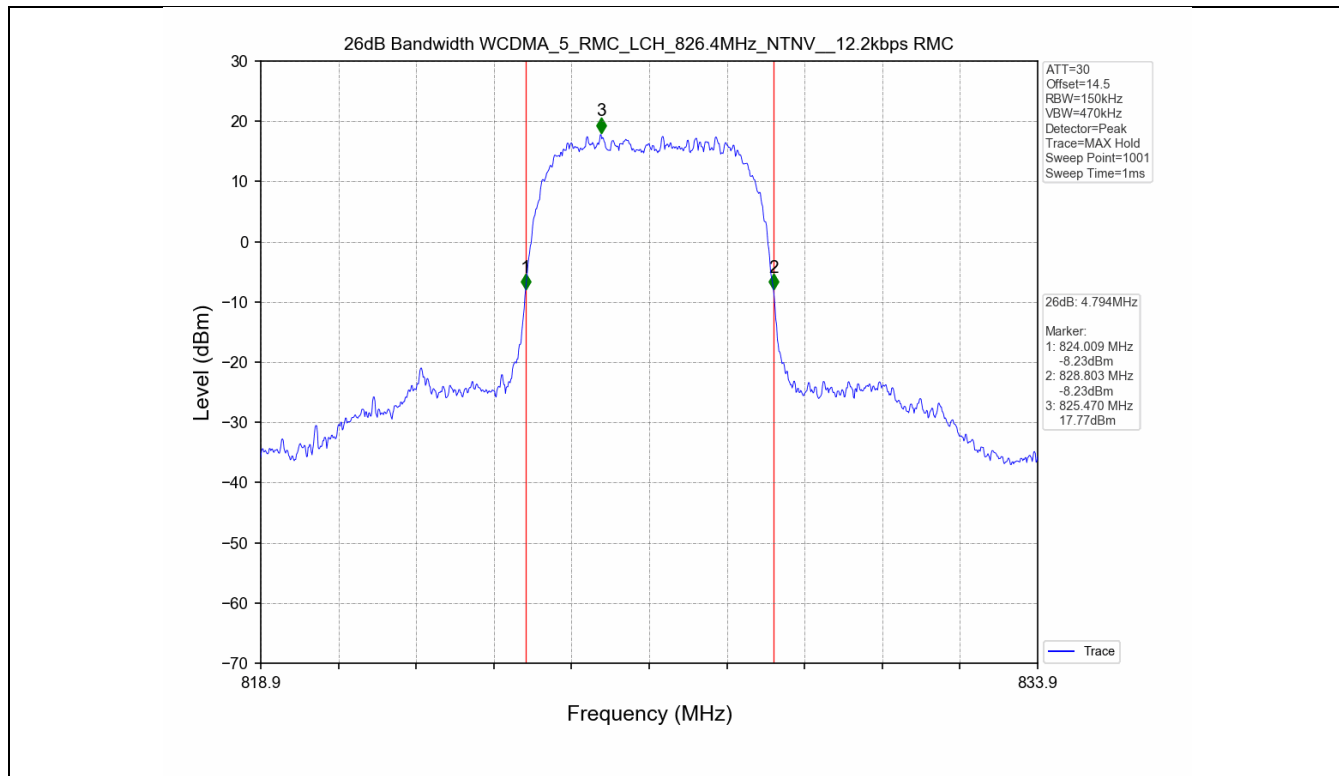




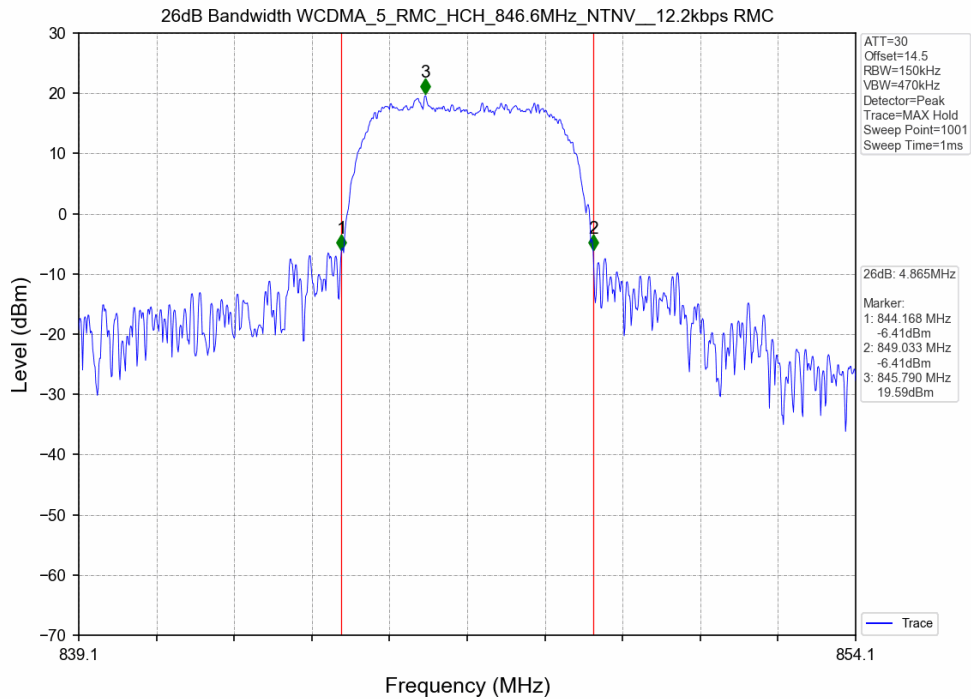
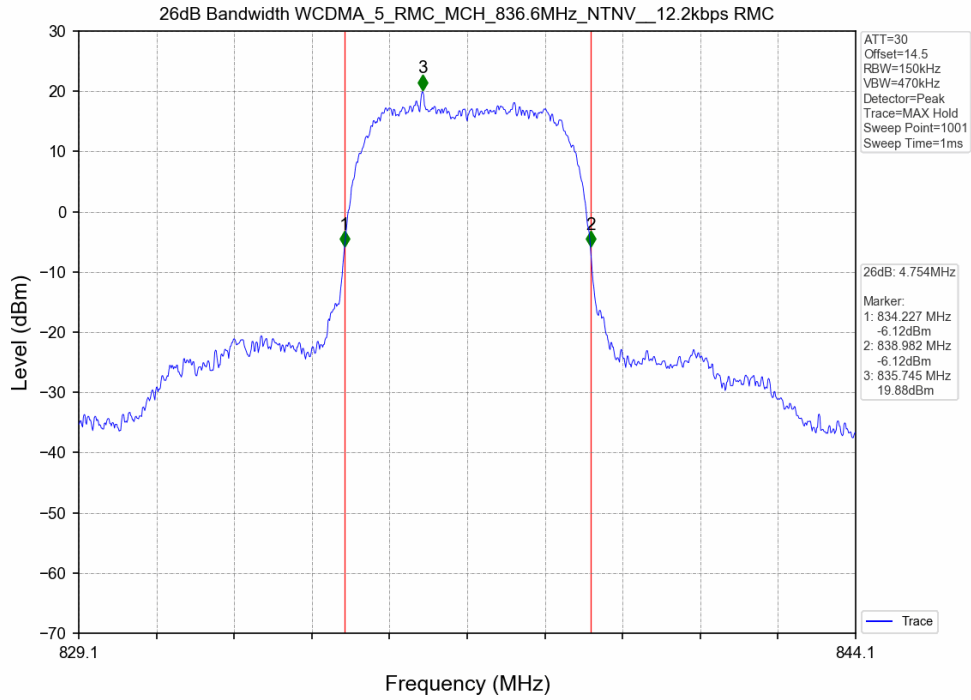


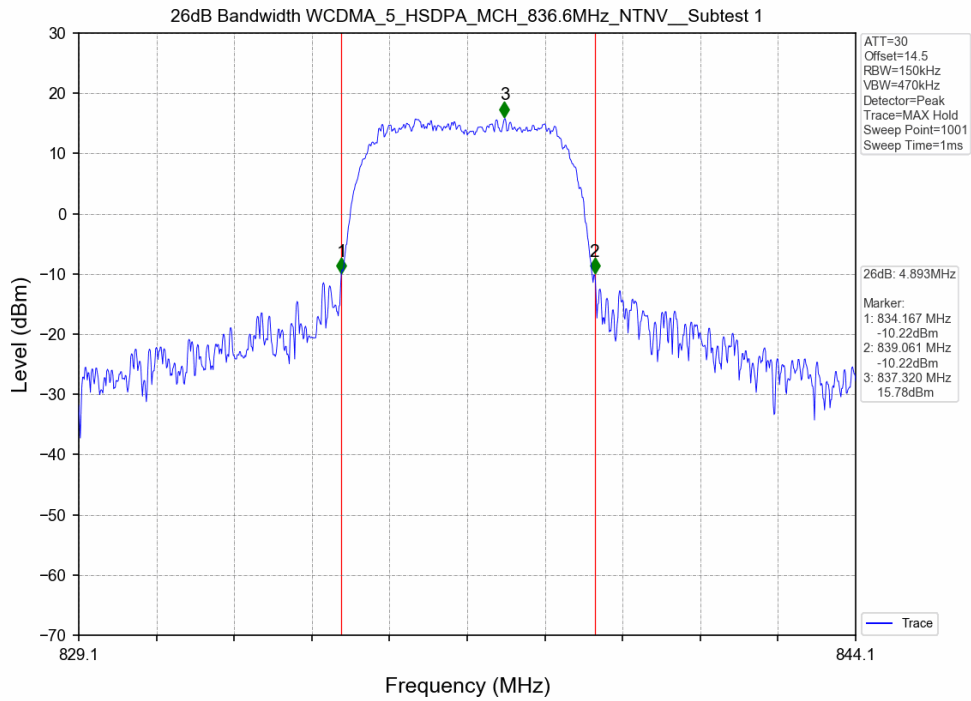
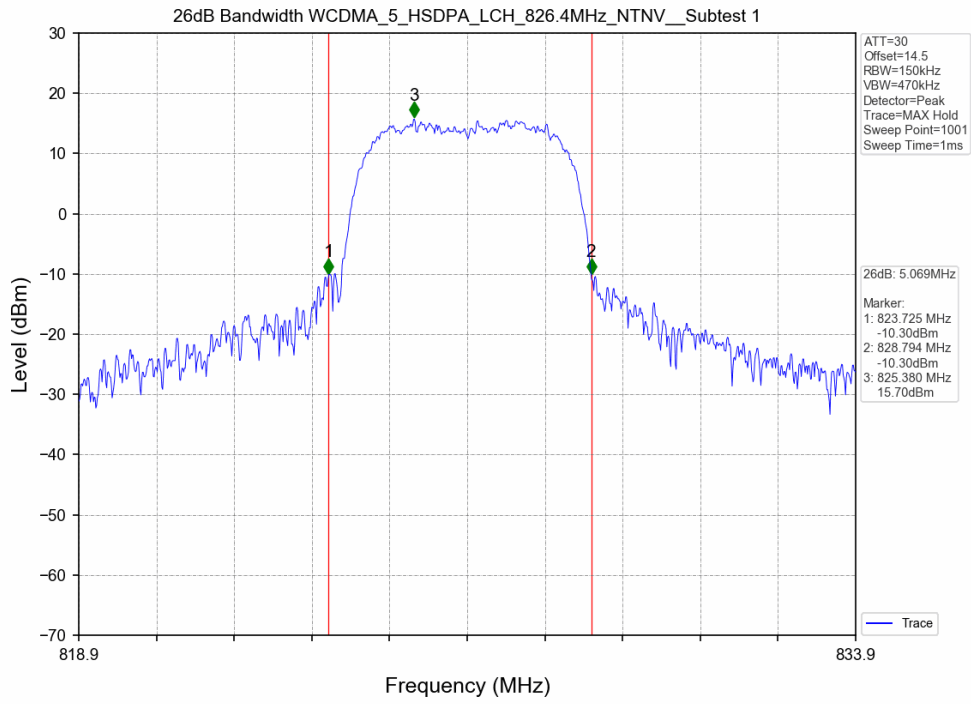


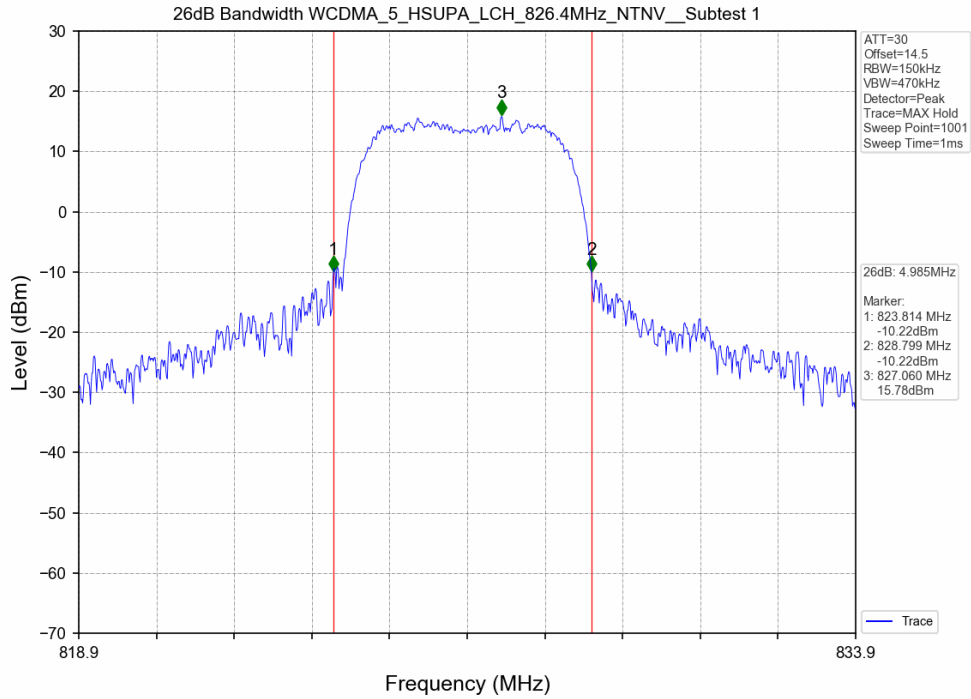
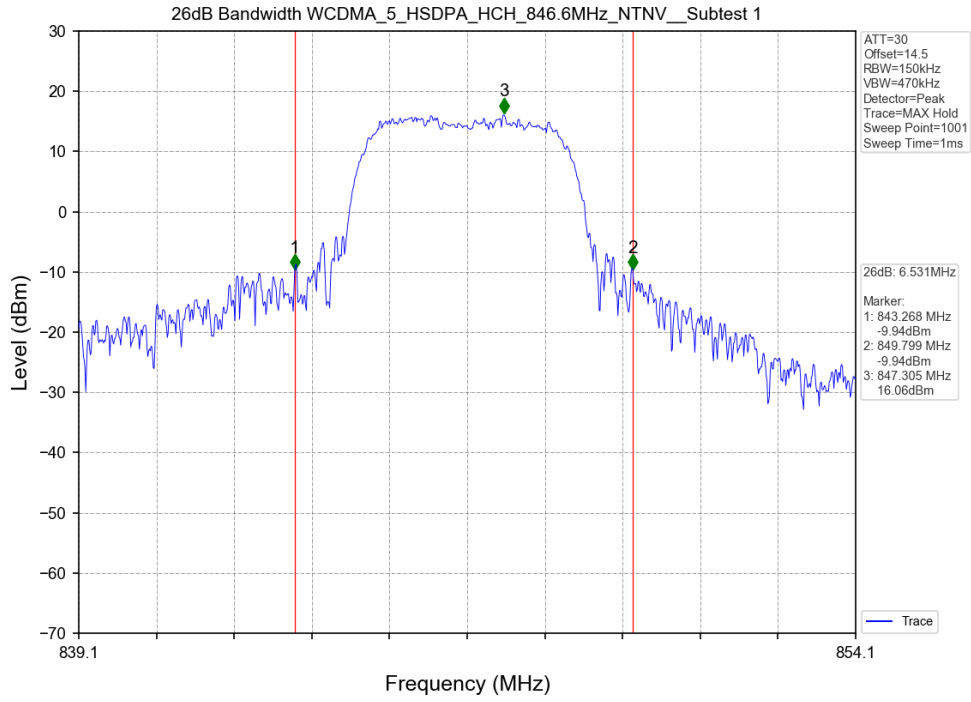
Test Mode	26dB Bandwidth (MHz)			Limit	Verdict
	LCH	MCH	HCH		
HSUPA	4.985	4.791	6.100	N/A	PASS
HSDPA	5.069	4.893	6.531	N/A	PASS
RMC	4.794	4.754	4.865	N/A	PASS

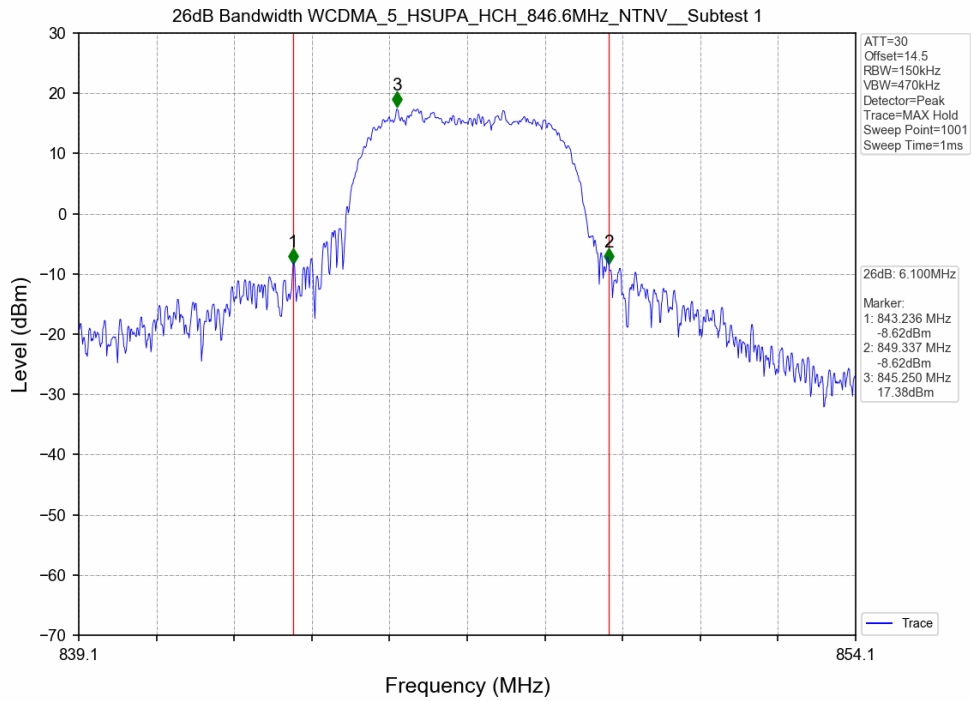
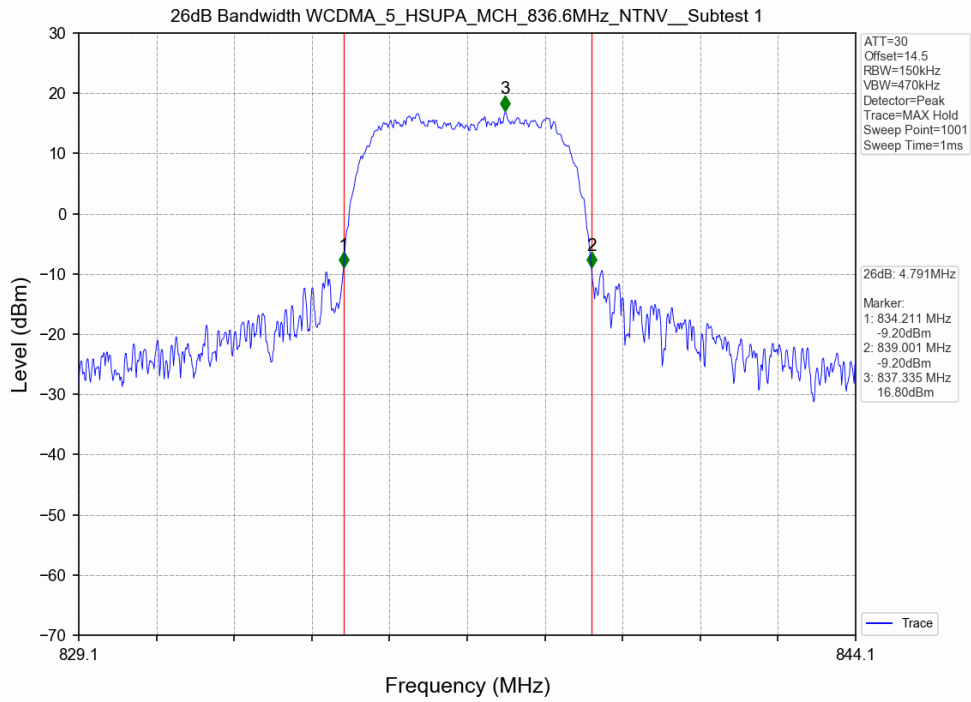












## 2.Frequency stability

**Band 2**

Test Band: 2 (Frequency Error VS. Voltage)										
Test Mode	Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
HSUPA	NT	LV	-5.2714	-7.5388	0.4148	-0.0028	-0.0040	0.0002	2.50	PASS
		NV	-1.6165	-1.6809	-3.1114	-0.0009	-0.0009	-0.0016	2.50	PASS
		HV	-7.9179	1.3375	-6.8235	-0.0043	0.0007	-0.0036	2.50	PASS
HSDPA	NT	LV	-5.1641	-3.7193	-3.8409	-0.0028	-0.0020	-0.0020	2.50	PASS
		NV	-5.8579	-4.4060	-1.7810	-0.0032	-0.0023	-0.0009	2.50	PASS
		HV	-11.0221	-0.5293	-9.5773	-0.0060	-0.0003	-0.0050	2.50	PASS
RMC	NT	LV	-16.6726	-10.6931	-6.8736	-0.0090	-0.0057	-0.0036	2.50	PASS
		NV	-21.1215	-6.4874	-16.4080	-0.0114	-0.0035	-0.0086	2.50	PASS
		HV	-19.1331	-11.8589	-13.7687	-0.0103	-0.0063	-0.0072	2.50	PASS

Test Band: 2 (Frequency Error VS. Temperature)										
Test Mode	Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
HSUPA	NV	-20.00	-10.9148	2.2316	-13.0749	-0.0059	0.0012	-0.0069	2.50	PASS
		-10.00	-11.2224	-0.9155	-9.8062	-0.0061	-0.0005	-0.0051	2.50	PASS
		0.00	-8.3613	-7.3385	-13.1392	-0.0045	-0.0039	-0.0069	2.50	PASS
		10.00	-9.5201	-9.8777	-11.9305	-0.0051	-0.0053	-0.0063	2.50	PASS
		20.00	-10.9863	-5.9009	-11.3297	-0.0059	-0.0031	-0.0059	2.50	PASS
		30.00	-8.1968	-7.6890	-8.1754	-0.0044	-0.0041	-0.0043	2.50	PASS
		40.00	-12.6100	-5.0354	-10.1638	-0.0068	-0.0027	-0.0053	2.50	PASS
		50.00	-7.6818	-6.7806	-12.0735	-0.0041	-0.0036	-0.0063	2.50	PASS
HSDPA	NV	60.00	-8.0967	-4.3058	-8.0466	-0.0044	-0.0023	-0.0042	2.50	PASS
		-20.00	-7.6032	0.0572	-9.2196	-0.0041	0.0000	-0.0048	2.50	PASS
		-10.00	-13.3967	1.6308	-13.0176	-0.0072	0.0009	-0.0068	2.50	PASS
		0.00	-8.1754	1.1301	-12.0807	-0.0044	0.0006	-0.0063	2.50	PASS
		10.00	-11.4369	1.5235	-6.9237	-0.0062	0.0008	-0.0036	2.50	PASS
		20.00	-8.6904	-7.1669	-13.6972	-0.0047	-0.0038	-0.0072	2.50	PASS
		30.00	-12.0091	-6.4158	-8.8620	-0.0065	-0.0034	-0.0046	2.50	PASS
		40.00	-11.1222	-5.0354	-11.9376	-0.0060	-0.0027	-0.0063	2.50	PASS
RMC	NV	50.00	-13.7901	-4.9996	-7.2885	-0.0074	-0.0027	-0.0038	2.50	PASS
		60.00	-7.1526	-1.3518	-13.0820	-0.0039	-0.0007	-0.0069	2.50	PASS
		-20.00	-18.7969	-14.0333	-16.0932	-0.0101	-0.0075	-0.0084	2.50	PASS
		-10.00	-20.7996	-11.5943	-16.9015	-0.0112	-0.0062	-0.0089	2.50	PASS
		0.00	-17.8957	-12.6100	-14.4625	-0.0097	-0.0067	-0.0076	2.50	PASS
		10.00	-19.5694	-16.4366	-15.0990	-0.0106	-0.0087	-0.0079	2.50	PASS
		20.00	-16.6368	-14.9846	-16.3436	-0.0090	-0.0080	-0.0086	2.50	PASS
		30.00	-19.4621	-11.3440	-18.0530	-0.0105	-0.0060	-0.0095	2.50	PASS
RMC	NV	40.00	-16.2506	-9.3913	-19.2833	-0.0088	-0.0050	-0.0101	2.50	PASS
		50.00	-15.7356	-10.2425	-19.3262	-0.0085	-0.0054	-0.0101	2.50	PASS
		60.00	-17.6525	-9.7632	-14.3194	-0.0095	-0.0052	-0.0075	2.50	PASS

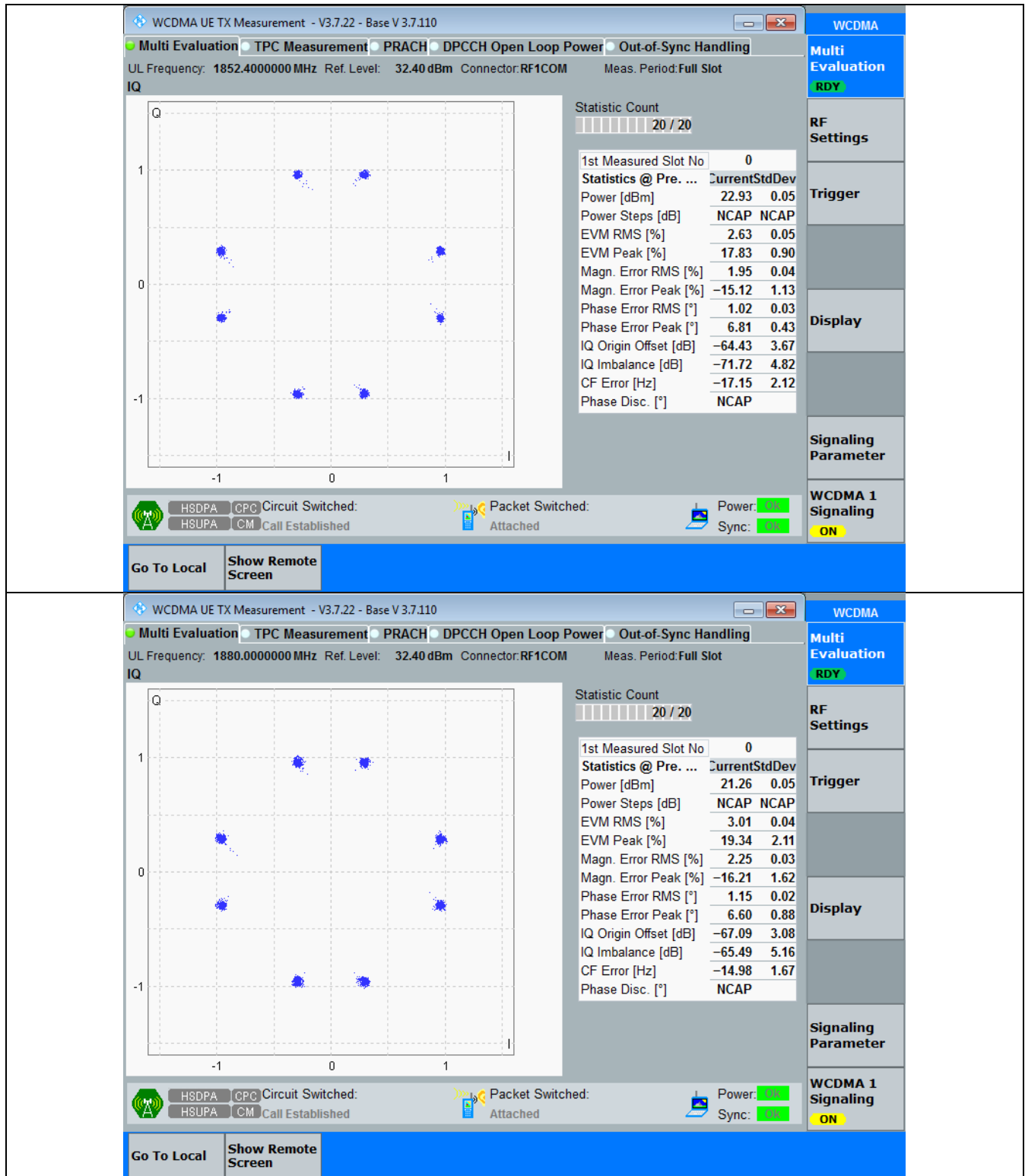
**Band 5**

Test Band: 5 (Frequency Error VS. Voltage)										
Test Mode	Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
HSUPA	NT	LV	-10.5000	-6.8450	/	-0.0127	-0.0082	/	2.50	PASS
		NV	-2.8682	-11.2009	/	-0.0035	-0.0134	/	2.50	PASS
		HV	-4.0555	-7.9250	/	-0.0049	-0.0095	/	2.50	PASS
HSDPA	NT	LV	-5.6720	-6.9809	/	-0.0069	-0.0083	/	2.50	PASS
		NV	-3.4332	-10.6502	/	-0.0042	-0.0127	/	2.50	PASS
		HV	-4.0340	-9.2769	/	-0.0049	-0.0111	/	2.50	PASS
RMC	NT	LV	-14.6341	-6.8665	-9.1839	-0.0177	-0.0082	-0.0108	2.50	PASS
		NV	-12.1450	-16.1362	-13.9260	-0.0147	-0.0193	-0.0164	2.50	PASS
		HV	-8.4972	-12.9819	-14.2980	-0.0103	-0.0155	-0.0169	2.50	PASS

Test Band: 5 (Frequency Error VS. Temperature)										
Test Mode	Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
			LCH	MCH	HCH	LCH	MCH	HCH		
HSUPA	NV	-20.00	-7.2527	-10.1209	/	-0.0088	-0.0121	/	2.50	PASS
		-10.00	-8.7261	-12.8603	/	-0.0106	-0.0154	/	2.50	PASS
		0.00	-2.4247	-14.0977	/	-0.0029	-0.0169	/	2.50	PASS
		10.00	-7.1597	-15.4924	/	-0.0087	-0.0185	/	2.50	PASS
		20.00	-4.3774	-8.7190	/	-0.0053	-0.0104	/	2.50	PASS
		30.00	-8.8406	-9.3627	/	-0.0107	-0.0112	/	2.50	PASS
		40.00	-4.8923	-9.5701	/	-0.0059	-0.0114	/	2.50	PASS
		50.00	-12.5241	-11.0722	/	-0.0152	-0.0132	/	2.50	PASS
HSDPA	NV	60.00	-9.7489	-10.8147	/	-0.0118	-0.0129	/	2.50	PASS
		-20.00	-5.3430	-10.0350	/	-0.0065	-0.0120	/	2.50	PASS
		-10.00	-3.2830	-12.1665	/	-0.0040	-0.0145	/	2.50	PASS
		0.00	-5.1928	-13.1822	/	-0.0063	-0.0158	/	2.50	PASS
		10.00	-6.7592	-13.2894	/	-0.0082	-0.0159	/	2.50	PASS
		20.00	-7.0453	-14.9632	/	-0.0085	-0.0179	/	2.50	PASS
		30.00	-3.3832	-14.8988	/	-0.0041	-0.0178	/	2.50	PASS
		40.00	-9.3842	-14.8272	/	-0.0114	-0.0177	/	2.50	PASS
RMC	NV	50.00	-4.4060	-14.7271	/	-0.0053	-0.0176	/	2.50	PASS
		60.00	-11.0221	-13.8760	/	-0.0133	-0.0166	/	2.50	PASS
		-20.00	-13.5541	-14.5554	-15.0418	-0.0164	-0.0174	-0.0178	2.50	PASS
		-10.00	-10.5500	-14.2622	-15.8858	-0.0128	-0.0170	-0.0188	2.50	PASS
		0.00	-16.0432	-14.6914	-13.1106	-0.0194	-0.0176	-0.0155	2.50	PASS
		10.00	-12.4025	-13.5970	-13.2465	-0.0150	-0.0163	-0.0156	2.50	PASS
		20.00	-15.7785	-10.7789	-9.2697	-0.0191	-0.0129	-0.0109	2.50	PASS
		30.00	-11.1866	-10.5715	-14.4625	-0.0135	-0.0126	-0.0171	2.50	PASS
RMC	NV	40.00	-11.2653	-14.7915	-13.4897	-0.0136	-0.0177	-0.0159	2.50	PASS
		50.00	-10.7646	-12.9819	-12.0878	-0.0130	-0.0155	-0.0143	2.50	PASS
		60.00	-9.9349	-8.6689	-12.4311	-0.0120	-0.0104	-0.0147	2.50	PASS

### 3.Modulation Characteristics

#### Band 2



WCDMA UE TX Measurement - V3.7.22 - Base V 3.7.110  
 Multi Evaluation TPC Measurement PRACH DPCCH Open Loop Power Out-of-Sync Handling  
 UL Frequency: 1907.6000000 MHz Ref. Level: 32.40 dBm Connector: RF1COM Meas. Period: Full Slot

WCDMA  
Multi Evaluation  
RDY

Statistic Count: 20 / 20

1st Measured Slot No	0
Statistics @ Pre. ...	CurrentStdDev
Power [dBm]	23.20 0.04
Power Steps [dB]	NCAP NCAP
EVM RMS [%]	2.24 0.07
EVM Peak [%]	17.92 1.95
Magn. Error RMS [%]	1.53 0.07
Magn. Error Peak [%]	-14.13 1.29
Phase Error RMS [°]	0.94 0.03
Phase Error Peak [°]	6.82 0.98
IQ Origin Offset [dB]	-69.64 5.69
IQ Imbalance [dB]	-61.78 2.92
CF Error [Hz]	-14.81 2.81
Phase Disc. [°]	NCAP

HSDPA CPC Circuit Switched:  
HSUPA CM Call Established

Packet Switched:  
Attached

Power: ON  
Sync: ON

Go To Local
Show Remote Screen

WCDMA UE TX Measurement - V3.7.22 - Base V 3.7.110  
 Multi Evaluation TPC Measurement PRACH DPCCH Open Loop Power Out-of-Sync Handling  
 UL Frequency: 1852.4000000 MHz Ref. Level: 32.30 dBm Connector: RF1COM Meas. Period: Full Slot

WCDMA  
Multi Evaluation  
RDY

Statistic Count: 20 / 20

1st Measured Slot No	0
Statistics @ Pre. ...	CurrentStdDev
Power [dBm]	23.20 0.04
Power Steps [dB]	NCAP NCAP
EVM RMS [%]	2.24 0.07
EVM Peak [%]	17.92 1.95
Magn. Error RMS [%]	1.53 0.07
Magn. Error Peak [%]	-14.13 1.29
Phase Error RMS [°]	0.94 0.03
Phase Error Peak [°]	6.82 0.98
IQ Origin Offset [dB]	-69.64 5.69
IQ Imbalance [dB]	-61.78 2.92
CF Error [Hz]	-14.81 2.81
Phase Disc. [°]	NCAP

HSDPA+ CPC Circuit Switched:  
HSUPA CM Registered

Packet Switched:  
Connection Established

Power: ON  
Sync: ON

Go To Local
Show Remote Screen



WCDMA UE TX Measurement - V3.7.22 - Base V 3.7.110
WCDMA

Multi Evaluation
  TPC Measurement
  PRACH
  DPCCH Open Loop Power
  Out-of-Sync Handling
 
Meas. Period: Full Slot

UL Frequency: 1880.000000 MHz Ref. Level: 32.30 dBm Connector: RF1COM

Statistic Count: 20 / 20

1st Measured Slot No	0
Statistics @ Pre. ...	CurrentStdDev
Power [dBm]	19.24 2.52
Power Steps [dB]	NCAP NCAP
EVM RMS [%]	2.78 4.43
EVM Peak [%]	6.36 38.40
Magn. Error RMS [%]	2.00 4.64
Magn. Error Peak [%]	5.15 39.30
Phase Error RMS [°]	1.96 0.43
Phase Error Peak [°]	6.68 17.12
IQ Origin Offset [dB]	-69.15 9.29
IQ Imbalance [dB]	-72.93 5.63
CF Error [Hz]	-7.32 7.35
Phase Disc. [°]	NCAP

WCDMA 1 Signaling

ON

HSDPA+  CPC Circuit Switched:
 HSUPA  CM Registered

Packet Switched: Connection Established
 Power: ON
 Sync: ON

Go To Local
Show Remote Screen

WCDMA UE TX Measurement - V3.7.22 - Base V 3.7.110
WCDMA

Multi Evaluation
  TPC Measurement
  PRACH
  DPCCH Open Loop Power
  Out-of-Sync Handling
 
Meas. Period: Full Slot

UL Frequency: 1907.600000 MHz Ref. Level: 32.30 dBm Connector: RF1COM

Statistic Count: 20 / 20

1st Measured Slot No	0
Statistics @ Pre. ...	CurrentStdDev
Power [dBm]	20.90 2.62
Power Steps [dB]	NCAP NCAP
EVM RMS [%]	7.31 4.09
EVM Peak [%]	63.19 39.31
Magn. Error RMS [%]	7.07 4.36
Magn. Error Peak [%]	63.18 41.09
Phase Error RMS [°]	1.62 0.26
Phase Error Peak [°]	7.68 2.25
IQ Origin Offset [dB]	-65.57 4.70
IQ Imbalance [dB]	-73.37 6.02
CF Error [Hz]	-16.60 9.47
Phase Disc. [°]	NCAP

WCDMA 1 Signaling

ON

HSDPA+  CPC Circuit Switched:
 HSUPA  CM Registered

Packet Switched: Connection Established
 Power: ON
 Sync: ON

Go To Local
Show Remote Screen

WCDMA UE TX Measurement - V3.7.22 - Base V 3.7.110  
 Multi Evaluation  TPC Measurement  PRACH  DPCCH Open Loop Power  Out-of-Sync Handling  
 UL Frequency: 1852.4000000 MHz Ref. Level: 32.30 dBm Connector: RF1COM Meas. Period: Full Slot

WCDMA  
Multi Evaluation  
RDY

Statistic Count: 20 / 20

1st Measured Slot No	0
Statistics @ Pre. ...	CurrentStdDev
Power [dBm]	15.84 2.32
Power Steps [dB]	NCAP NCAP
EVM RMS [%]	2.45 2.06
EVM Peak [%]	7.14 20.18
Magn. Error RMS [%]	1.79 2.14
Magn. Error Peak [%]	5.58 20.66
Phase Error RMS [°]	0.96 0.33
Phase Error Peak [°]	4.06 1.41
IQ Origin Offset [dB]	-64.73 6.05
IQ Imbalance [dB]	-72.25 6.66
CF Error [Hz]	-16.90 5.24
Phase Disc. [°]	NCAP

RF Settings  
  
Trigger  
  
  
Display

HSDPA+  CPC Circuit Switched: HSUPA  CM Registered

Packet Switched: Connection Established

Power: ON Sync: ON

Go To Local
Show Remote Screen

WCDMA UE TX Measurement - V3.7.22 - Base V 3.7.110  
 Multi Evaluation  TPC Measurement  PRACH  DPCCH Open Loop Power  Out-of-Sync Handling  
 UL Frequency: 1880.0000000 MHz Ref. Level: 32.30 dBm Connector: RF1COM Meas. Period: Full Slot

WCDMA  
Multi Evaluation  
RDY

Statistic Count: 20 / 20

1st Measured Slot No	0
Statistics @ Pre. ...	CurrentStdDev
Power [dBm]	18.90 2.64
Power Steps [dB]	NCAP NCAP
EVM RMS [%]	8.07 4.49
EVM Peak [%]	66.49 38.73
Magn. Error RMS [%]	7.79 4.69
Magn. Error Peak [%]	66.48 39.65
Phase Error RMS [°]	2.15 0.40
Phase Error Peak [°]	21.37 20.05
IQ Origin Offset [dB]	-63.45 8.45
IQ Imbalance [dB]	-74.16 4.58
CF Error [Hz]	-11.81 9.33
Phase Disc. [°]	NCAP

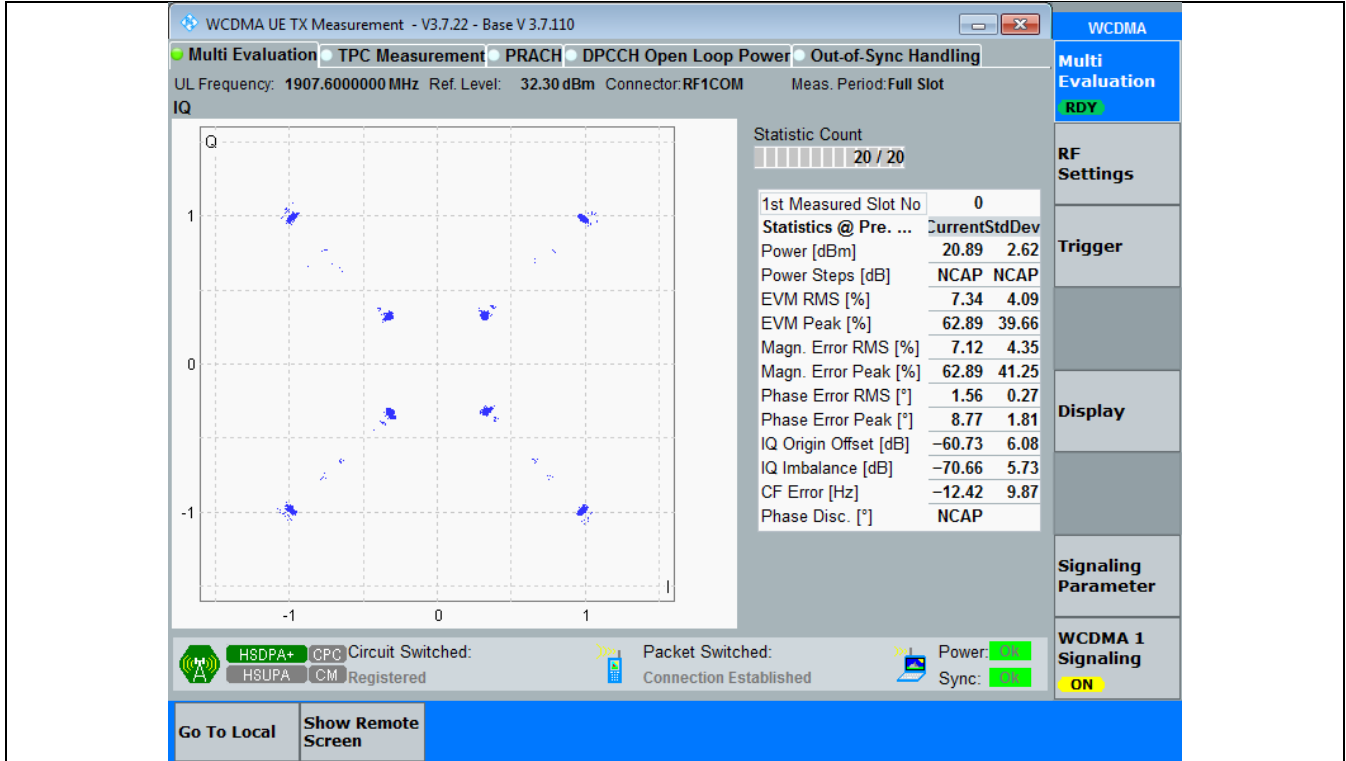
RF Settings  
  
Trigger  
  
  
Display

HSDPA+  CPC Circuit Switched: HSUPA  CM Registered

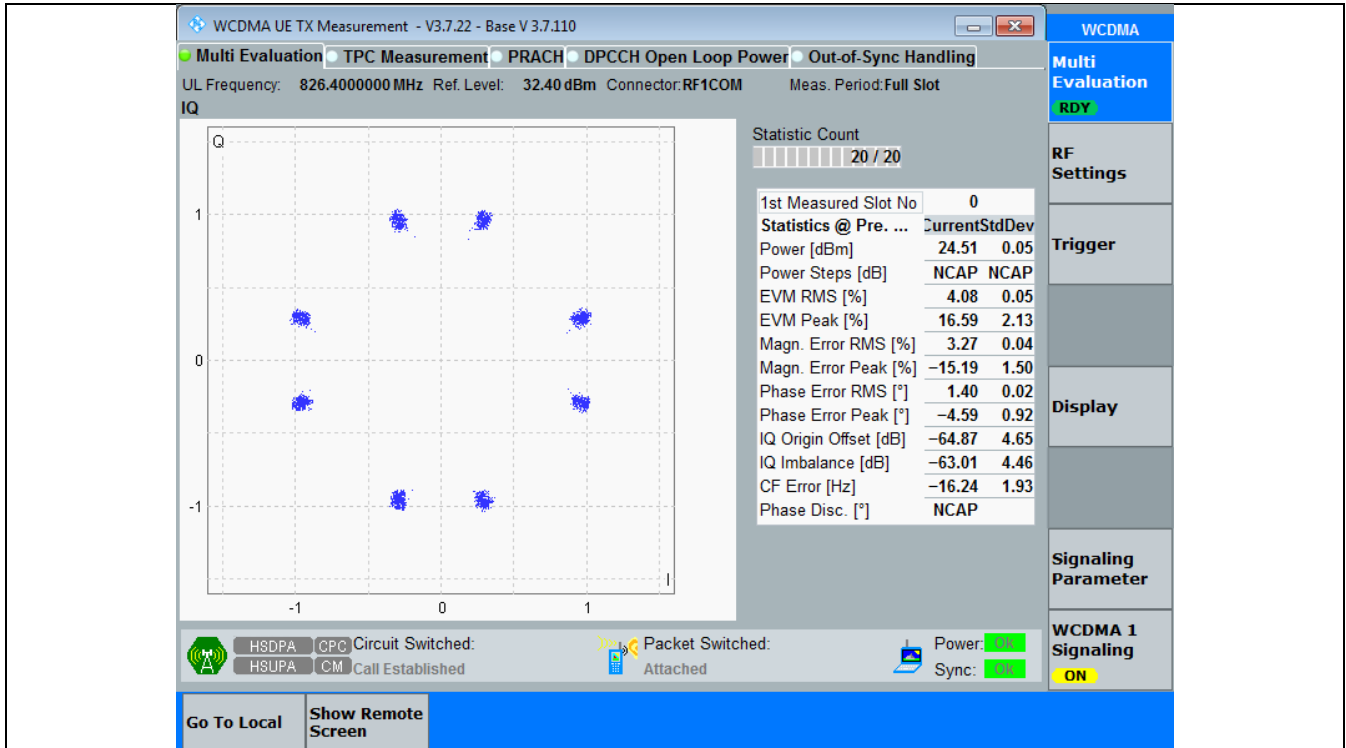
Packet Switched: Connection Established

Power: ON Sync: ON

Go To Local
Show Remote Screen



### Band 5



WCDMA UE TX Measurement - V3.7.22 - Base V 3.7.110
WCDMA

Multi Evaluation
  TPC Measurement
  PRACH
  DPCCH Open Loop Power
  Out-of-Sync Handling
 
Meas. Period: Full Slot

UL Frequency: 836.600000 MHz Ref. Level: 32.40 dBm Connector: RF1COM

Statistic Count: 20 / 20

1st Measured Slot No	0
Statistics @ Pre. ...	CurrentStdDev
Power [dBm]	22.71 0.04
Power Steps [dB]	NCAP NCAP
EVM RMS [%]	3.22 0.05
EVM Peak [%]	19.22 1.99
Magn. Error RMS [%]	2.57 0.04
Magn. Error Peak [%]	-16.68 2.07
Phase Error RMS [°]	1.12 0.02
Phase Error Peak [°]	6.00 0.50
IQ Origin Offset [dB]	-66.11 4.22
IQ Imbalance [dB]	-70.20 4.42
CF Error [Hz]	-15.36 1.92
Phase Disc. [°]	NCAP

WCDMA 1 Signaling: ON

HSDPA
 CPC
Circuit Switched:

HSPA
 CM
Call Established

Packet Switched:

Attached

Power:

Sync:

Go To Local
Show Remote Screen

WCDMA UE TX Measurement - V3.7.22 - Base V 3.7.110
WCDMA

Multi Evaluation
  TPC Measurement
  PRACH
  DPCCH Open Loop Power
  Out-of-Sync Handling
 
Meas. Period: Full Slot

UL Frequency: 846.600000 MHz Ref. Level: 32.40 dBm Connector: RF1COM

Statistic Count: 20 / 20

1st Measured Slot No	0
Statistics @ Pre. ...	CurrentStdDev
Power [dBm]	22.12 0.05
Power Steps [dB]	NCAP NCAP
EVM RMS [%]	3.77 0.07
EVM Peak [%]	14.57 2.28
Magn. Error RMS [%]	3.04 0.06
Magn. Error Peak [%]	-13.65 2.19
Phase Error RMS [°]	1.28 0.03
Phase Error Peak [°]	-5.16 0.86
IQ Origin Offset [dB]	-67.56 4.75
IQ Imbalance [dB]	-70.53 5.58
CF Error [Hz]	-16.31 2.80
Phase Disc. [°]	NCAP

WCDMA 1 Signaling: ON

HSDPA
 CPC
Circuit Switched:

HSPA
 CM
Call Established

Packet Switched:

Attached

Power:

Sync:

Go To Local
Show Remote Screen

WCDMA UE TX Measurement - V3.7.22 - Base V 3.7.110  
 Multi Evaluation  TPC Measurement  PRACH  DPCCH Open Loop Power  Out-of-Sync Handling  
 UL Frequency: 826.400000 MHz Ref. Level: 32.30 dBm Connector: RF1COM Meas. Period: Full Slot

WCDMA  
Multi Evaluation  
RDY

Statistic Count: 20 / 20

1st Measured Slot No	0
Statistics @ Pre. ...	CurrentStdDev
Power [dBm]	22.12 0.05
Power Steps [dB]	NCAP NCAP
EVM RMS [%]	3.77 0.07
EVM Peak [%]	14.57 2.28
Magn. Error RMS [%]	3.04 0.06
Magn. Error Peak [%]	-13.65 2.19
Phase Error RMS [°]	1.28 0.03
Phase Error Peak [°]	-5.16 0.86
IQ Origin Offset [dB]	-67.56 4.75
IQ Imbalance [dB]	-70.53 5.58
CF Error [Hz]	-16.31 2.80
Phase Disc. [°]	NCAP

RF Settings  
  
Trigger  
  
  
Display

HSDPA+  CPC Circuit Switched:  
HSUPA  CM Registered

Packet Switched:  
Connection Established

Power: ON  
Sync: ON

Go To Local
Show Remote Screen

WCDMA UE TX Measurement - V3.7.22 - Base V 3.7.110  
 Multi Evaluation  TPC Measurement  PRACH  DPCCH Open Loop Power  Out-of-Sync Handling  
 UL Frequency: 836.600000 MHz Ref. Level: 32.30 dBm Connector: RF1COM Meas. Period: Full Slot

WCDMA  
Multi Evaluation  
RDY

Statistic Count: 20 / 20

1st Measured Slot No	0
Statistics @ Pre. ...	CurrentStdDev
Power [dBm]	16.76 2.22
Power Steps [dB]	NCAP NCAP
EVM RMS [%]	2.89 2.83
EVM Peak [%]	7.53 37.76
Magn. Error RMS [%]	2.21 3.04
Magn. Error Peak [%]	7.02 38.03
Phase Error RMS [°]	1.06 0.66
Phase Error Peak [°]	-3.32 2.46
IQ Origin Offset [dB]	-71.03 7.83
IQ Imbalance [dB]	-61.57 5.83
CF Error [Hz]	-13.48 2.52
Phase Disc. [°]	NCAP

RF Settings  
  
Trigger  
  
  
Display

HSDPA+  CPC Circuit Switched:  
HSUPA  CM Registered

Packet Switched:  
Connection Established

Power: ON  
Sync: ON

Go To Local
Show Remote Screen

WCDMA UE TX Measurement - V3.7.22 - Base V 3.7.110

WCDMA

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

UL Frequency: 846.600000 MHz Ref. Level: 32.30 dBm Connector: RF1COM Meas. Period: Full Slot

Statistic Count: 20 / 20

1st Measured Slot No	0
Statistics @ Pre. ...	CurrentStdDev
Power [dBm]	20.20 2.62
Power Steps [dB]	NCAP NCAP
EVM RMS [%]	4.18 3.67
EVM Peak [%]	9.71 39.47
Magn. Error RMS [%]	3.21 3.95
Magn. Error Peak [%]	-7.90 39.81
Phase Error RMS [°]	3.12 0.83
Phase Error Peak [°]	-11.59 4.82
IQ Origin Offset [dB]	-62.37 6.21
IQ Imbalance [dB]	-62.27 7.51
CF Error [Hz]	-14.44 3.15
Phase Disc. [°]	NCAP

WCDMA  
Multi Evaluation  
RDY  
RF Settings  
Trigger  
Display  
Signaling Parameter  
WCDMA 1 Signaling  
ON

HSDPA+ CPC Circuit Switched:  
HSUPA CM Registered

Packet Switched:  
 Connection Established

Power:  
Sync:

Go To Local
Show Remote Screen

WCDMA UE TX Measurement - V3.7.22 - Base V 3.7.110

WCDMA

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

UL Frequency: 826.400000 MHz Ref. Level: 32.30 dBm Connector: RF1COM Meas. Period: Full Slot

Statistic Count: 20 / 20

1st Measured Slot No	0
Statistics @ Pre. ...	CurrentStdDev
Power [dBm]	18.50 2.24
Power Steps [dB]	NCAP NCAP
EVM RMS [%]	3.86 2.53
EVM Peak [%]	8.34 36.34
Magn. Error RMS [%]	3.10 2.74
Magn. Error Peak [%]	7.99 36.52
Phase Error RMS [°]	1.32 0.68
Phase Error Peak [°]	-4.30 2.39
IQ Origin Offset [dB]	-64.55 4.87
IQ Imbalance [dB]	-68.45 6.48
CF Error [Hz]	-3.46 2.61
Phase Disc. [°]	NCAP

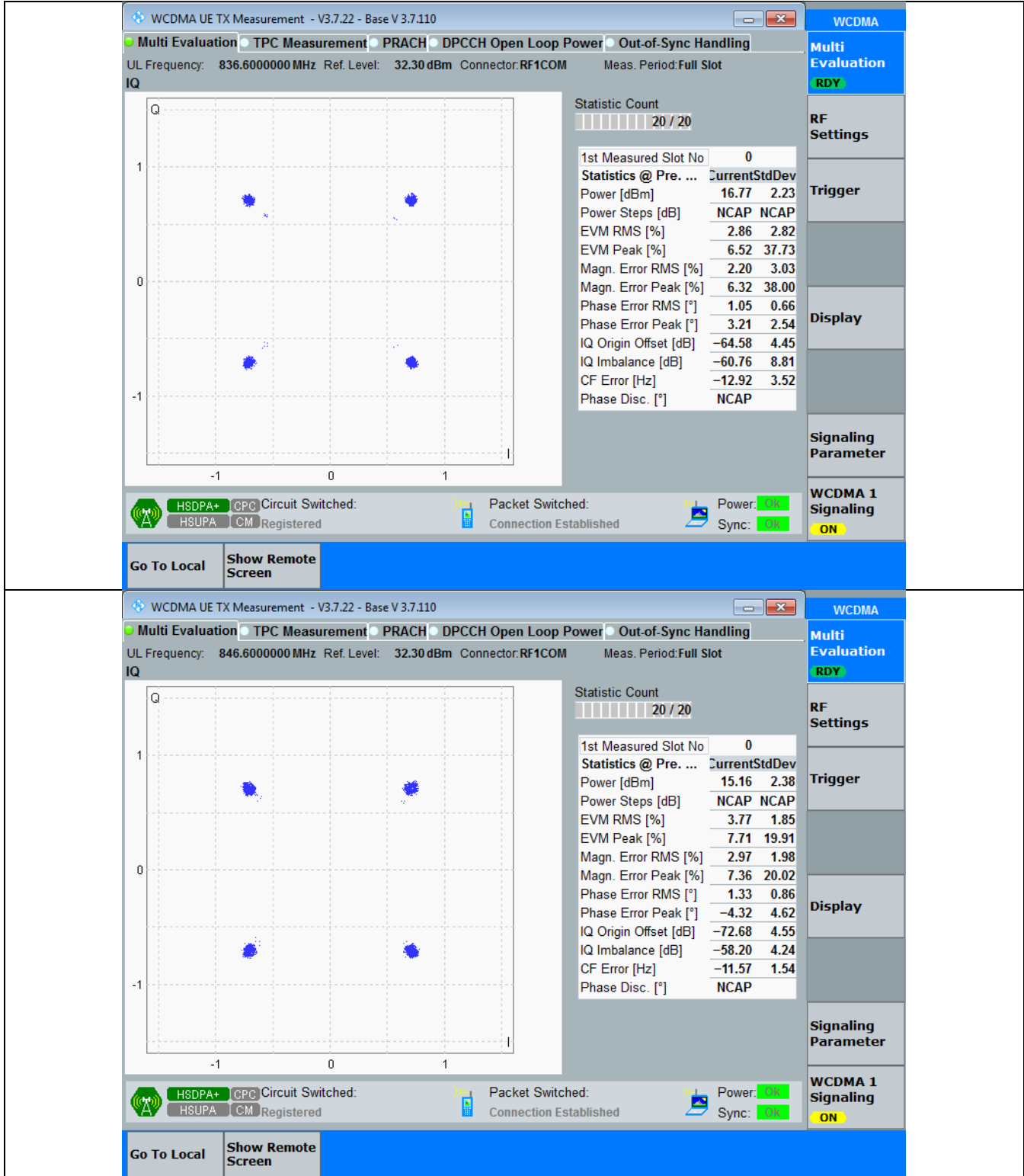
WCDMA  
Multi Evaluation  
RDY  
RF Settings  
Trigger  
Display  
Signaling Parameter  
WCDMA 1 Signaling  
ON

HSDPA+ CPC Circuit Switched:  
HSUPA CM Registered

Packet Switched:  
 Connection Established

Power:  
Sync:

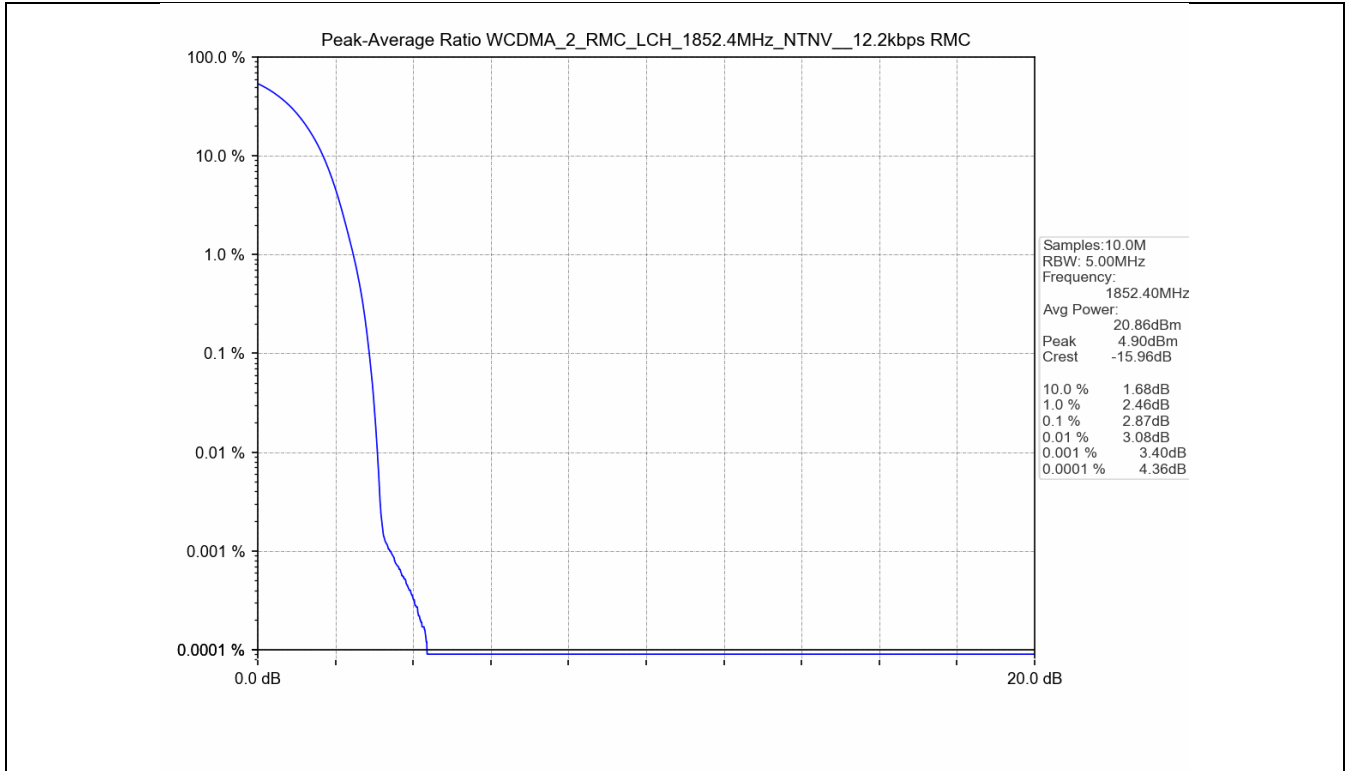
Go To Local
Show Remote Screen



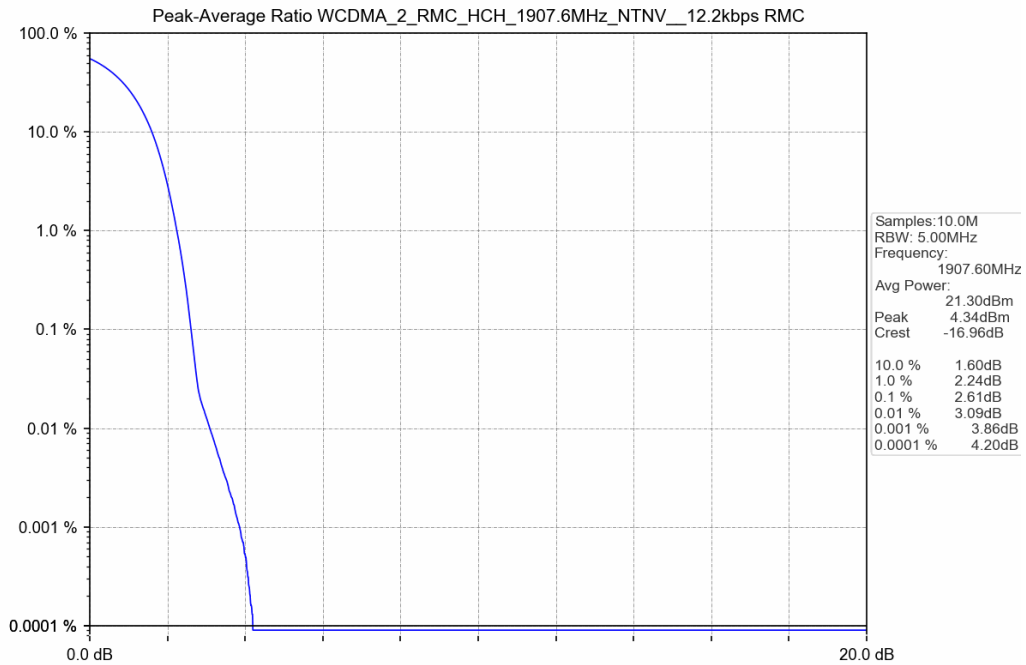
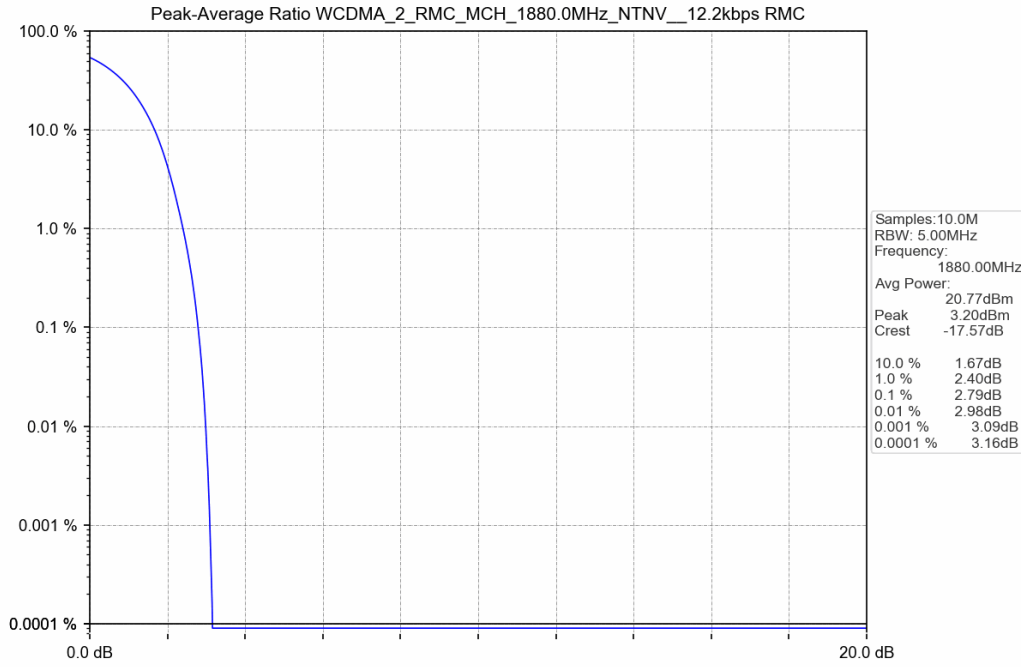
#### 4. Peak-Average Ratio

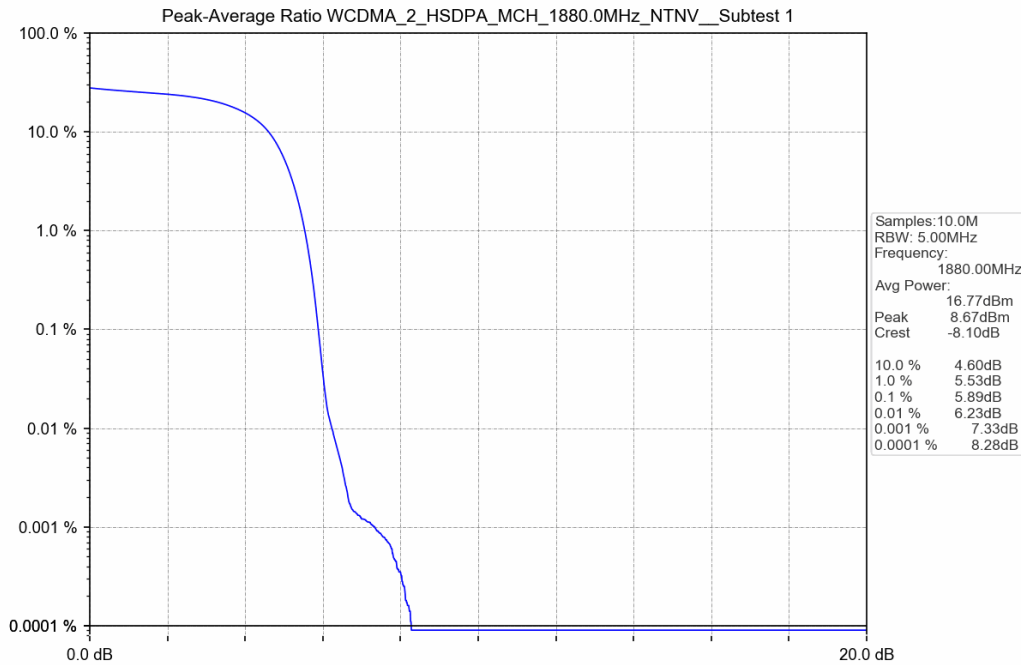
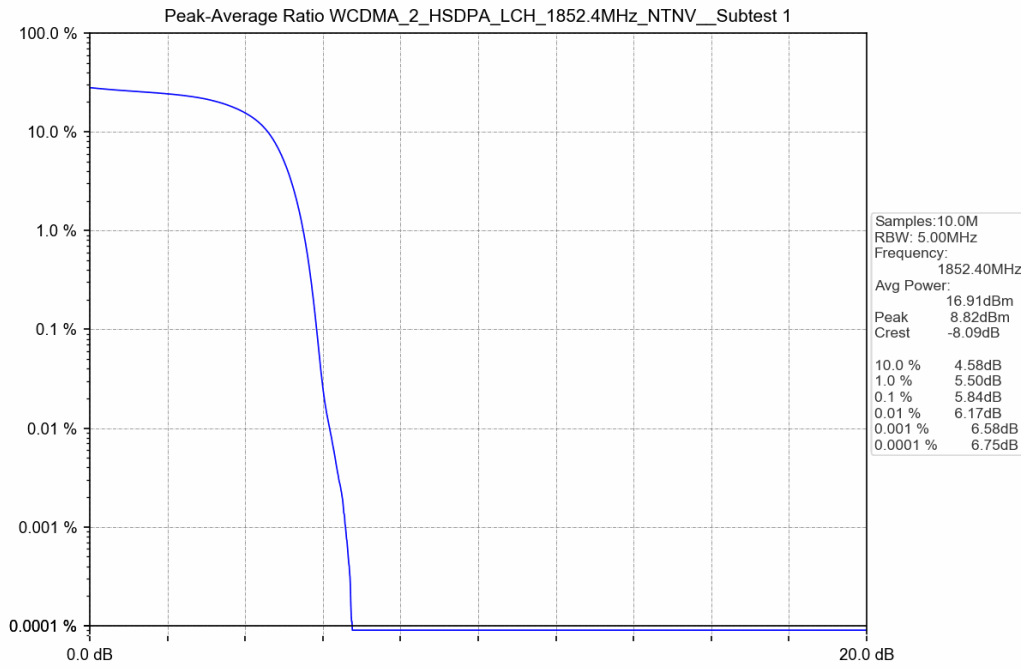
**Band 2**

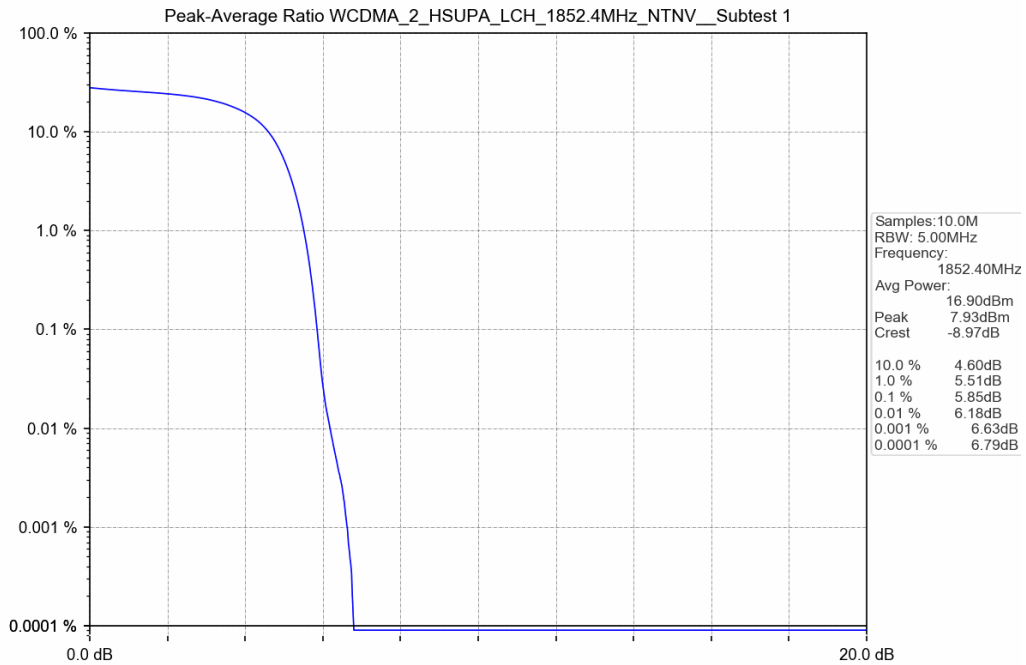
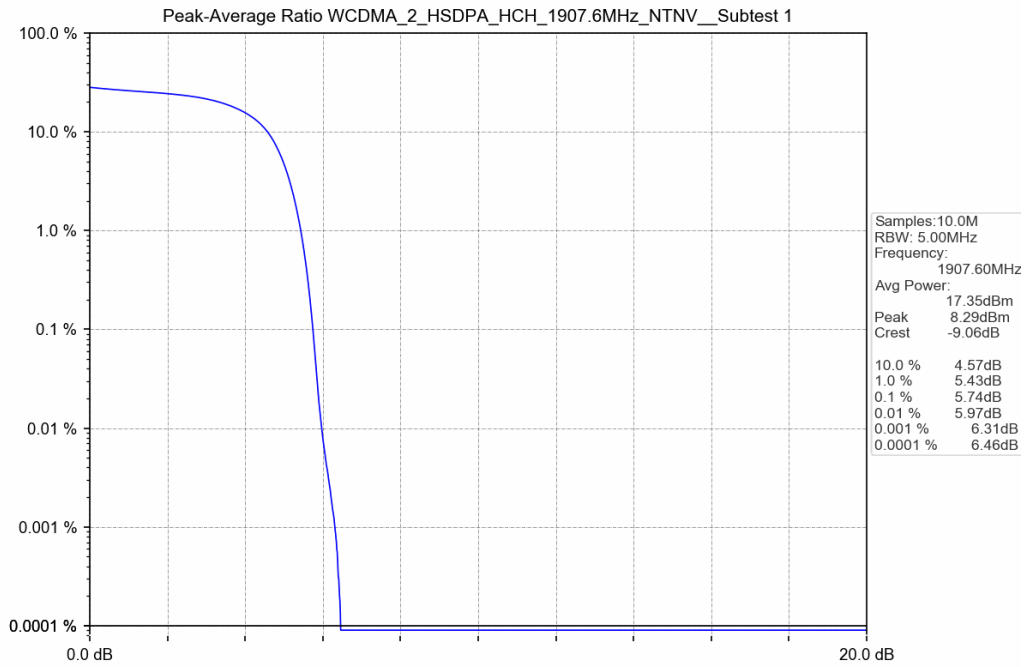
Test Band: 2					
Test Mode	Test result (dB)			Limit (dB)	Verdict
	LCH	MCH	HCH		
HSUPA	5.85	5.91	5.82	13	PASS
HSDPA	5.84	5.89	5.74	13	PASS
RMC	2.87	2.79	2.61	13	PASS

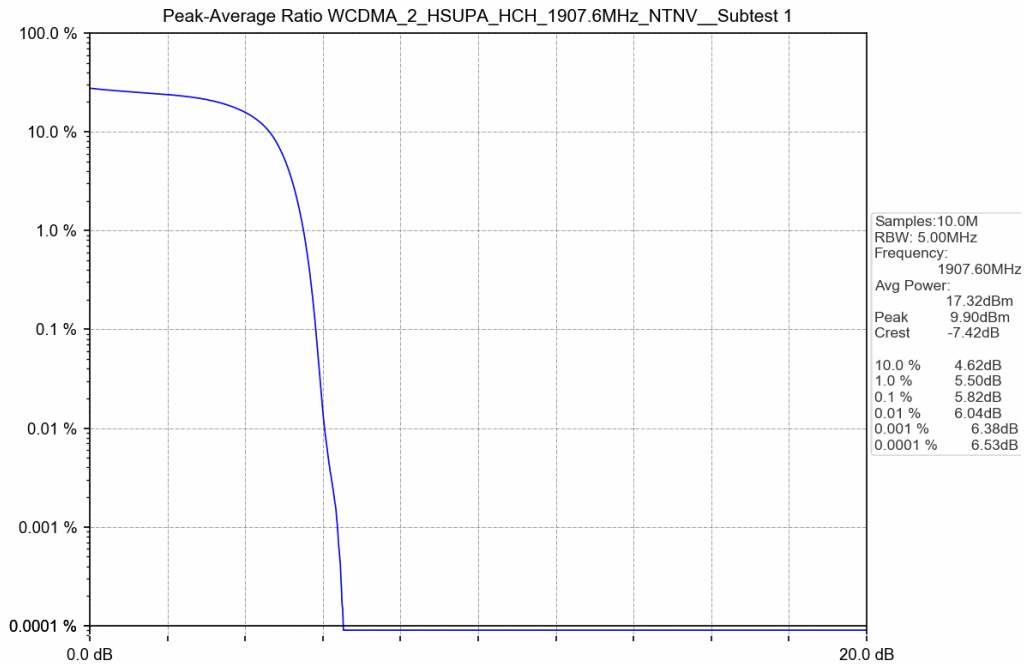
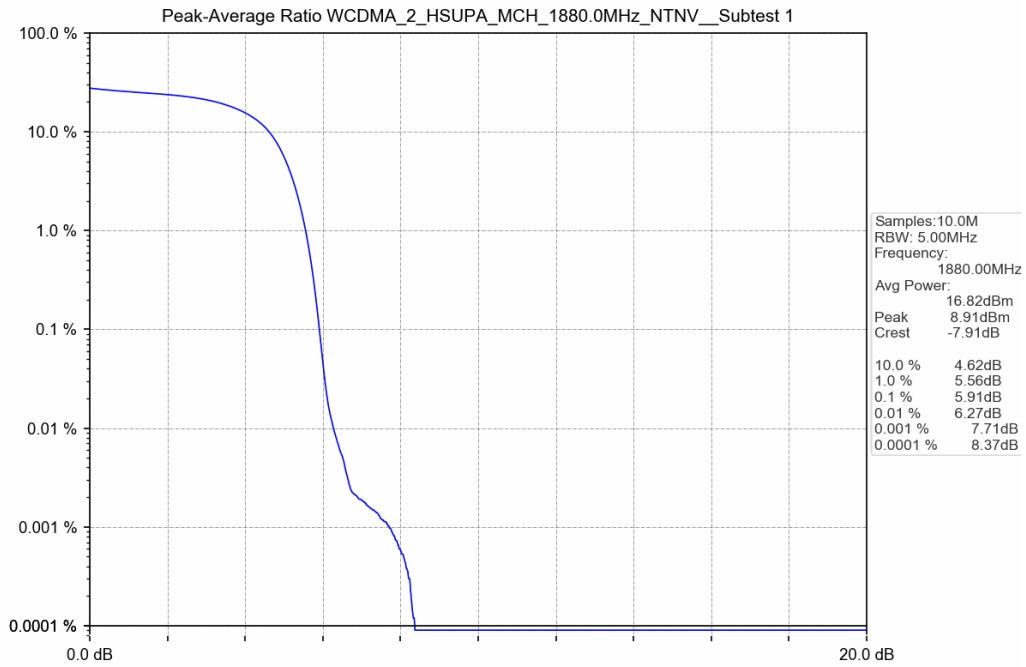






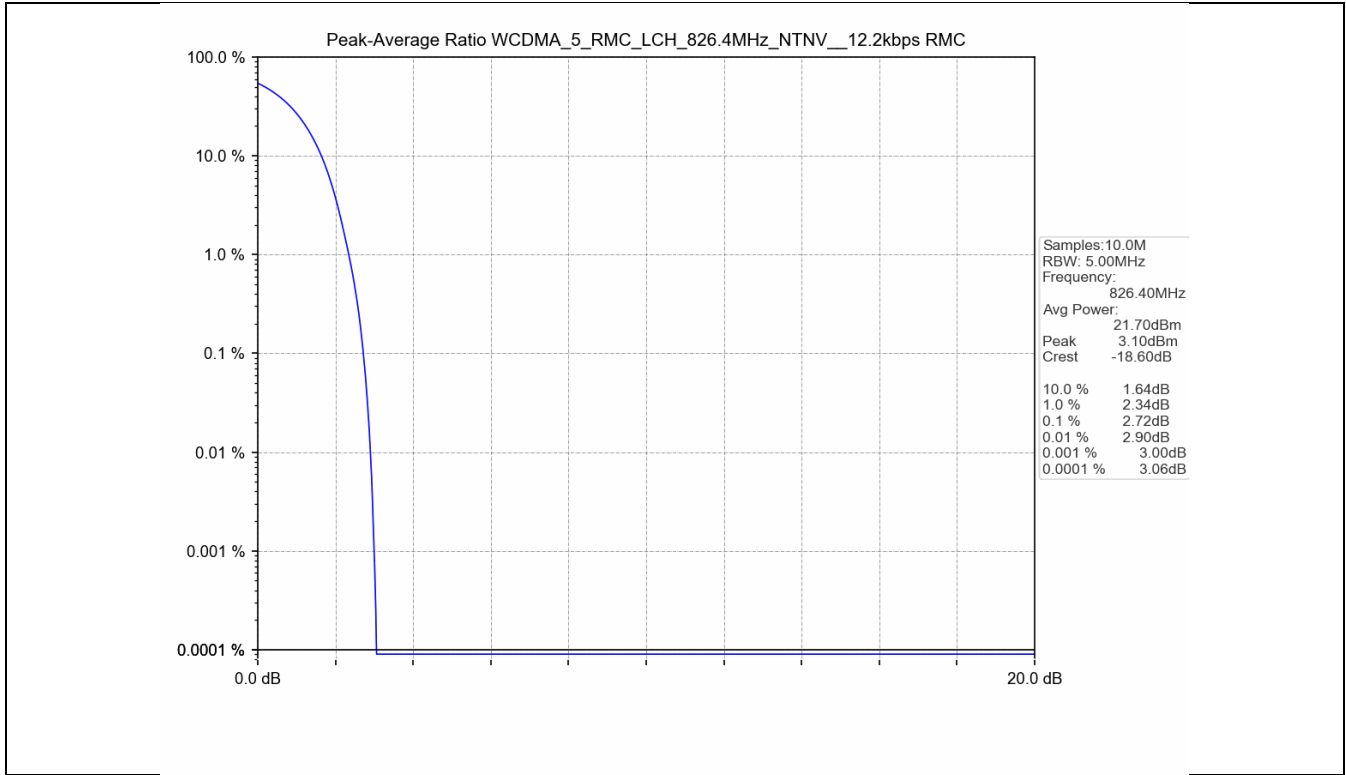


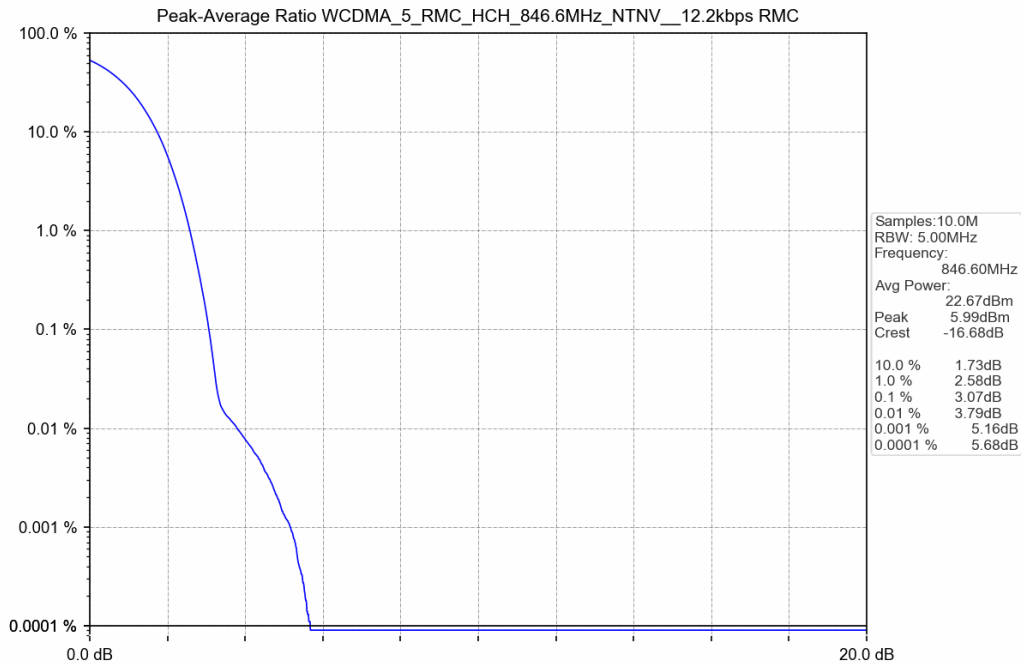
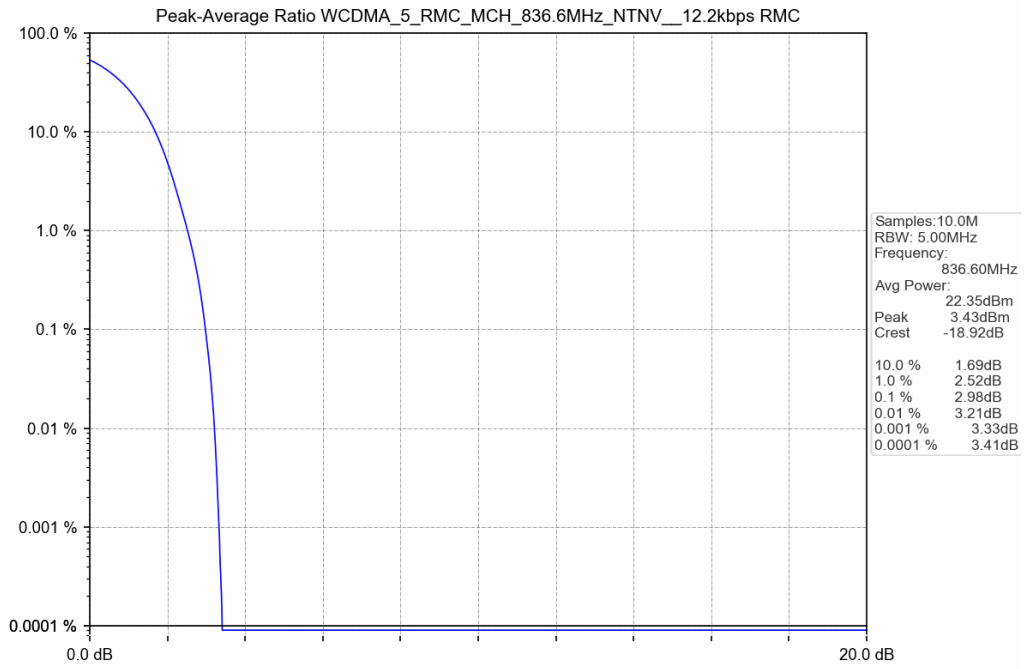


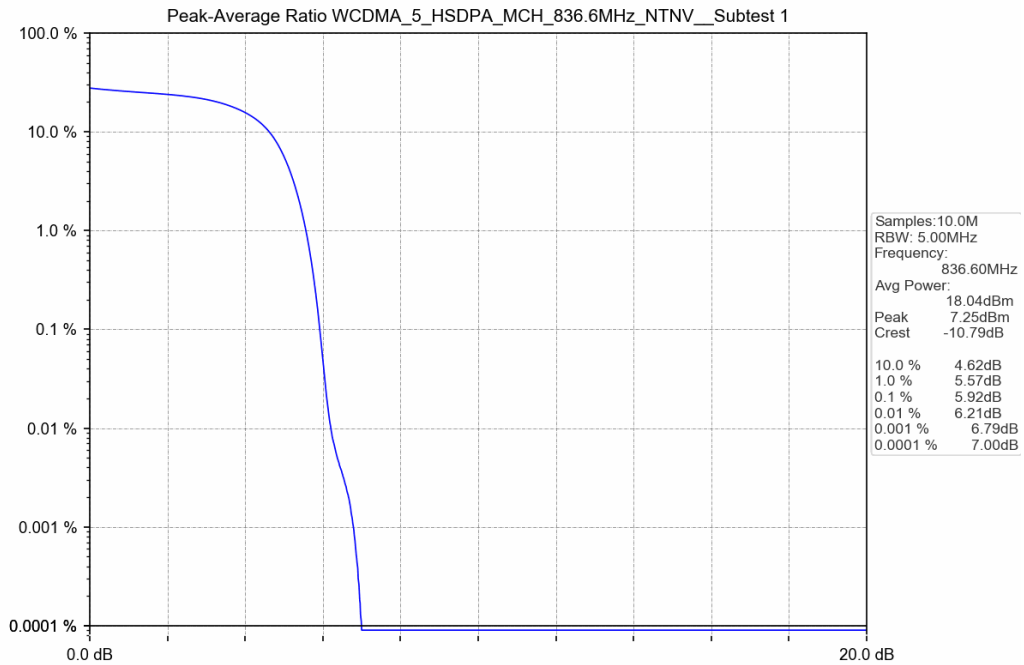
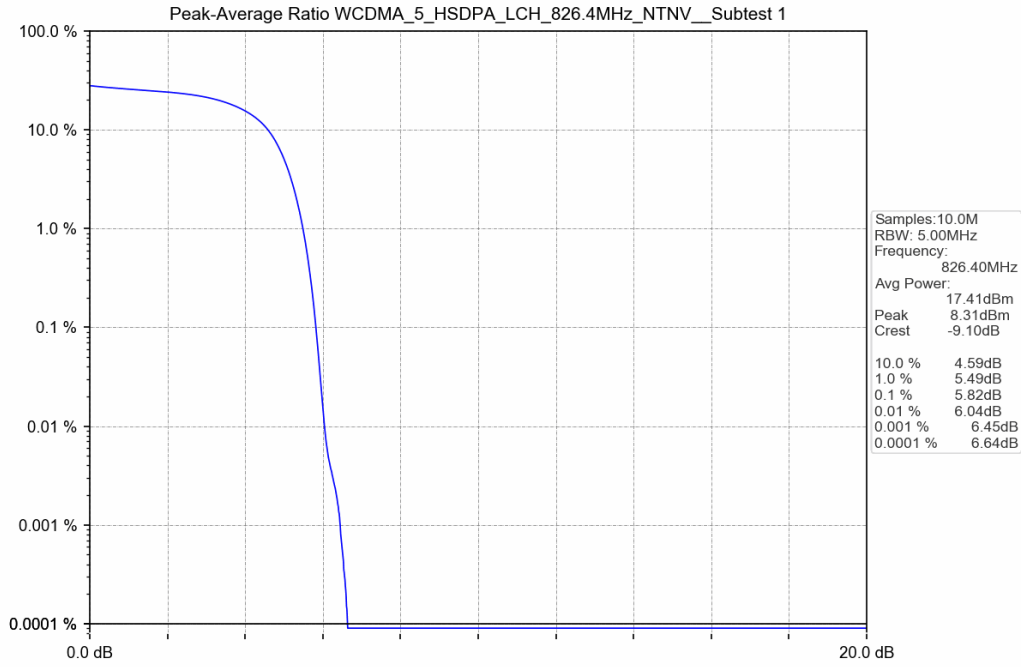


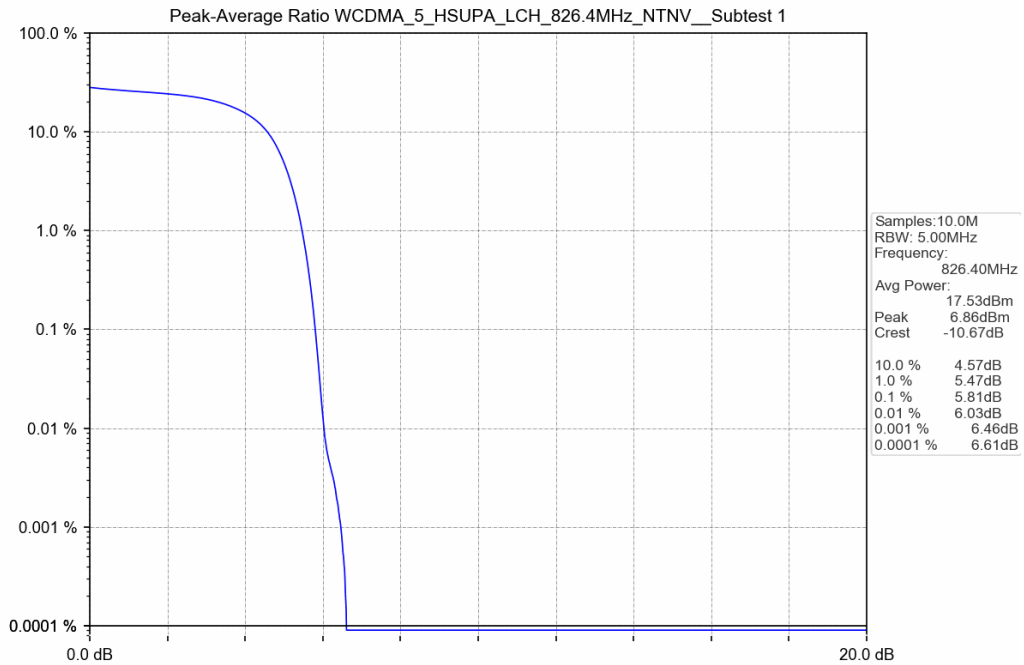
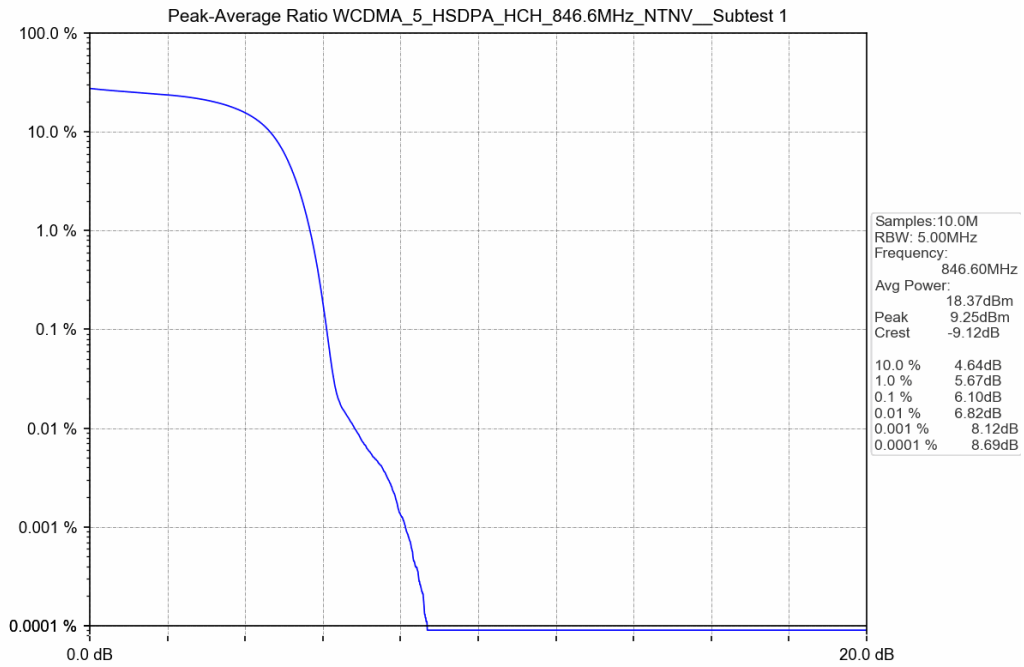
Band 8

Test Band: 5					
Test Mode	Test result (dB)			Limit (dB)	Verdict
	LCH	MCH	HCH		
HSUPA	5.81	5.94	6.02	13	PASS
HSDPA	5.82	5.92	6.10	13	PASS
RMC	2.72	2.98	3.07	13	PASS

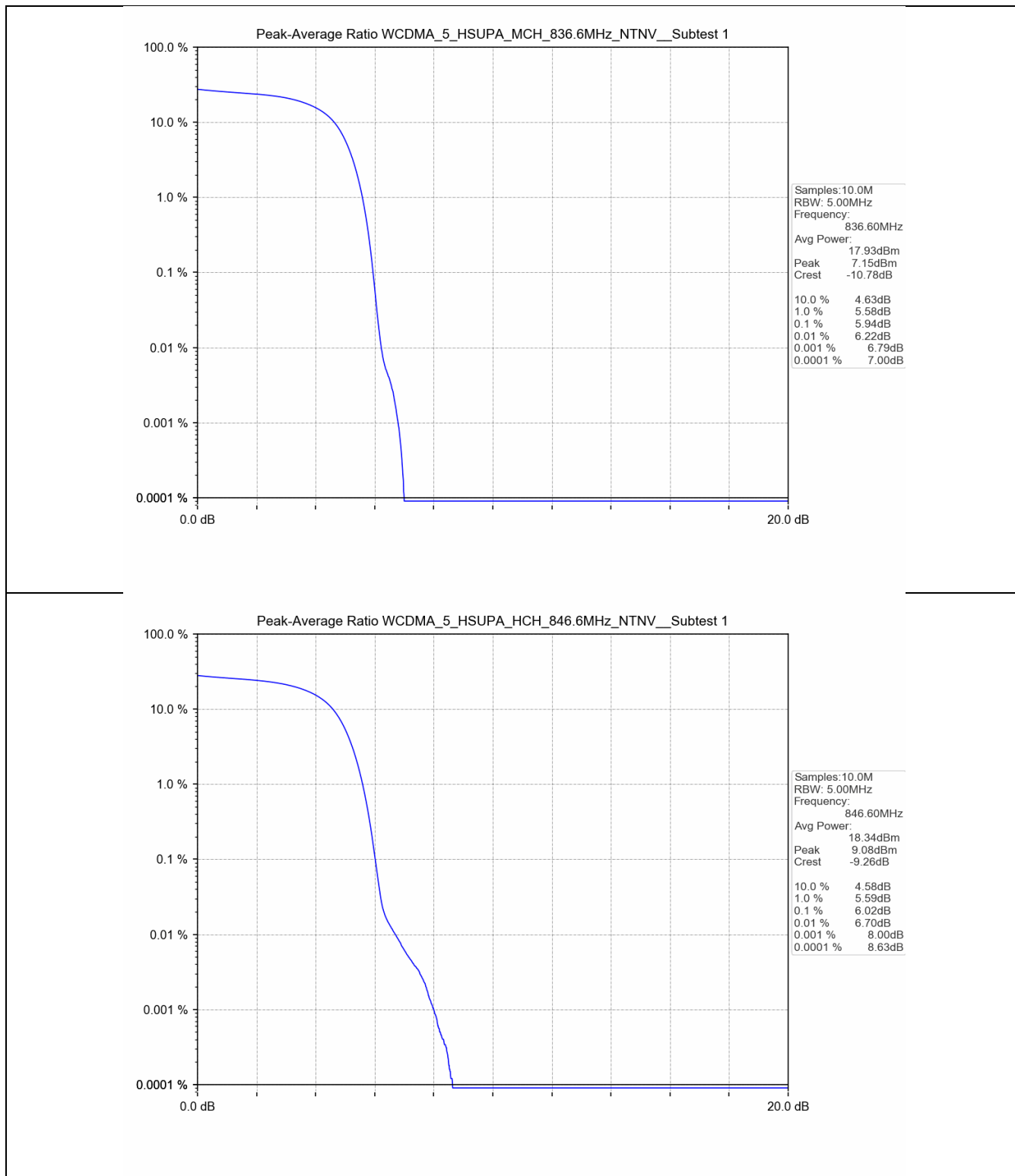












**5. Effective (Isotropic) Radiated Power Output Data**

**Band 2**

Test Band: 2											
Test Mode		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
		LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
HSUPA	Subtest 1	17.07	17.08	17.93	0.95	3.10	20.17	20.18	21.03	33.01	PASS
	Subtest 2	17.56	17.08	17.39	0.95	3.10	20.66	20.18	20.49	33.01	PASS
	Subtest 3	17.35	17.60	17.41	0.95	3.10	20.45	20.70	20.51	33.01	PASS
	Subtest 4	17.01	17.44	17.69	0.95	3.10	20.11	20.54	20.79	33.01	PASS
	Subtest 5	17.32	17.43	17.38	0.95	3.10	20.42	20.53	20.48	33.01	PASS
HSDPA	Subtest 1	17.56	17.38	17.67	0.95	3.10	20.66	20.48	20.77	33.01	PASS
	Subtest 2	17.08	17.13	17.69	0.95	3.10	20.18	20.23	20.79	33.01	PASS
	Subtest 3	17.03	17.63	17.64	0.95	3.10	20.13	20.73	20.74	33.01	PASS
	Subtest 4	17.04	17.43	17.38	0.95	3.10	20.14	20.53	20.48	33.01	PASS
RMC	12.2kbps RMC	21.90	21.95	22.25	0.95	3.10	25.00	25.05	25.35	33.01	PASS

Note:  
 1) dBd = dBi - 2.15  
 2) EIRP = Conducted output power + Antenna gain (dBi)

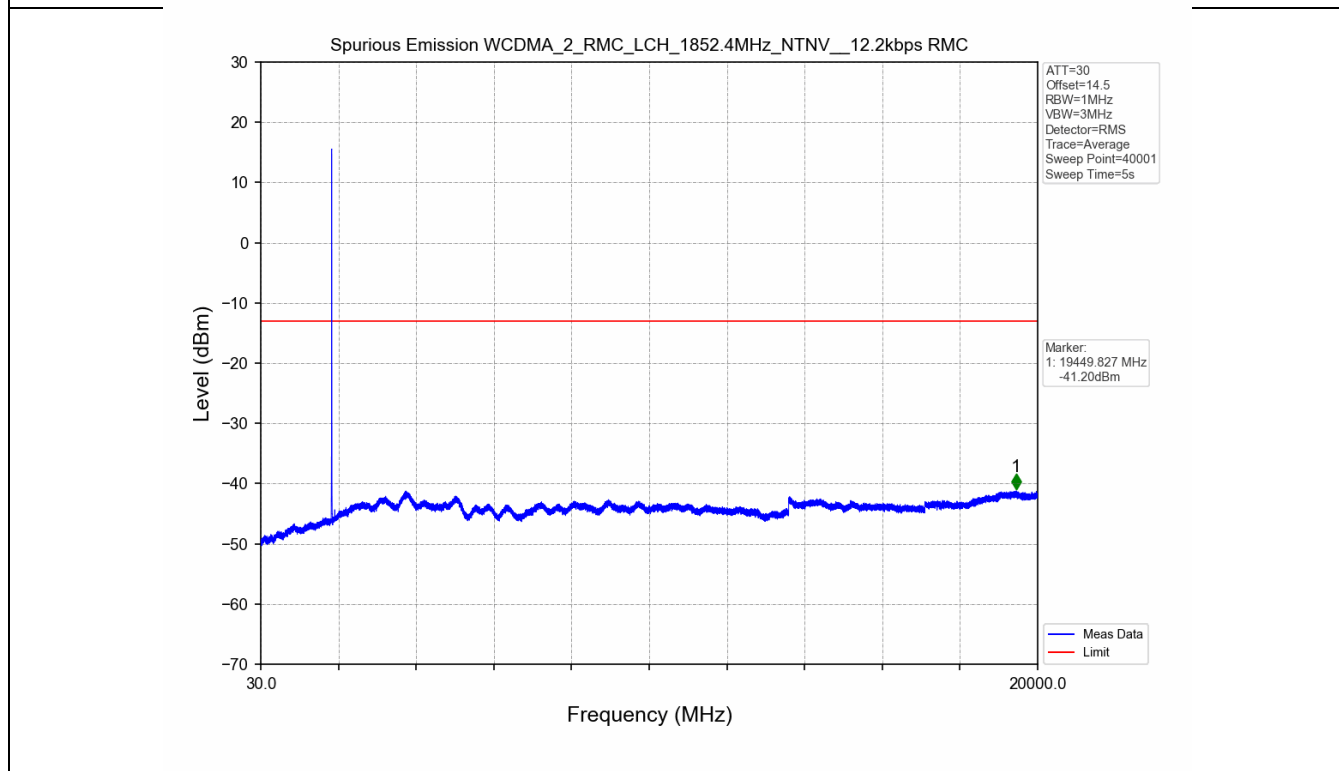
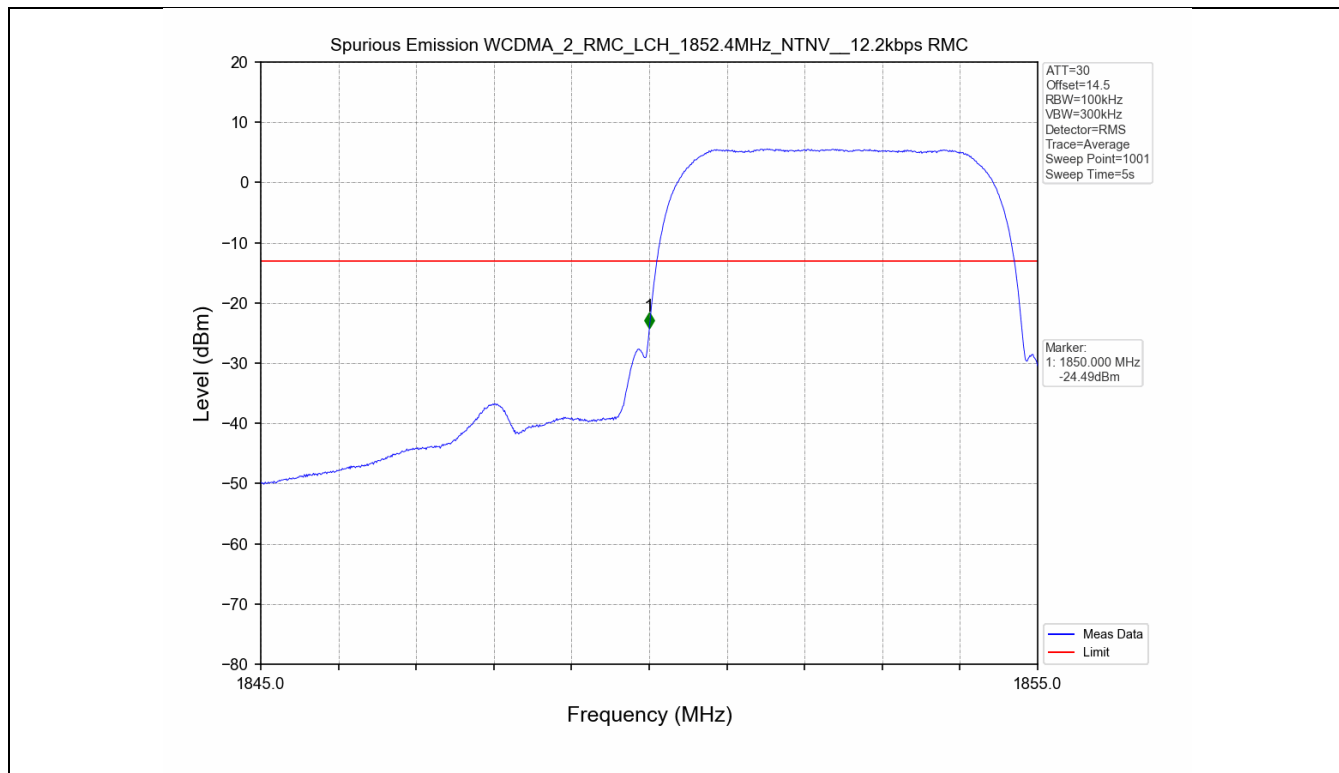
**Band 5**

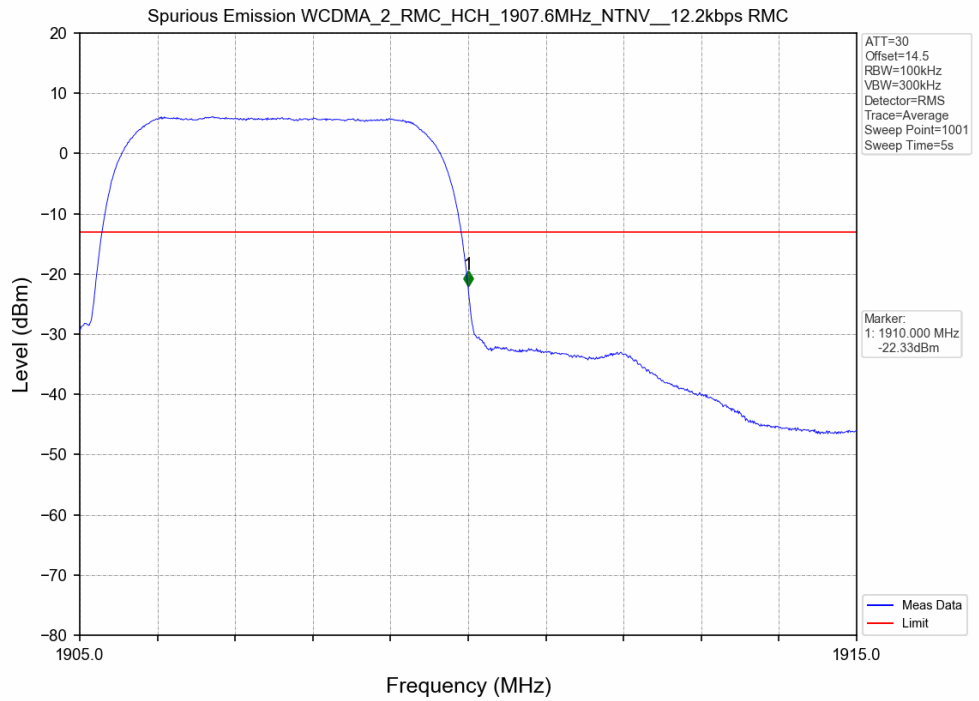
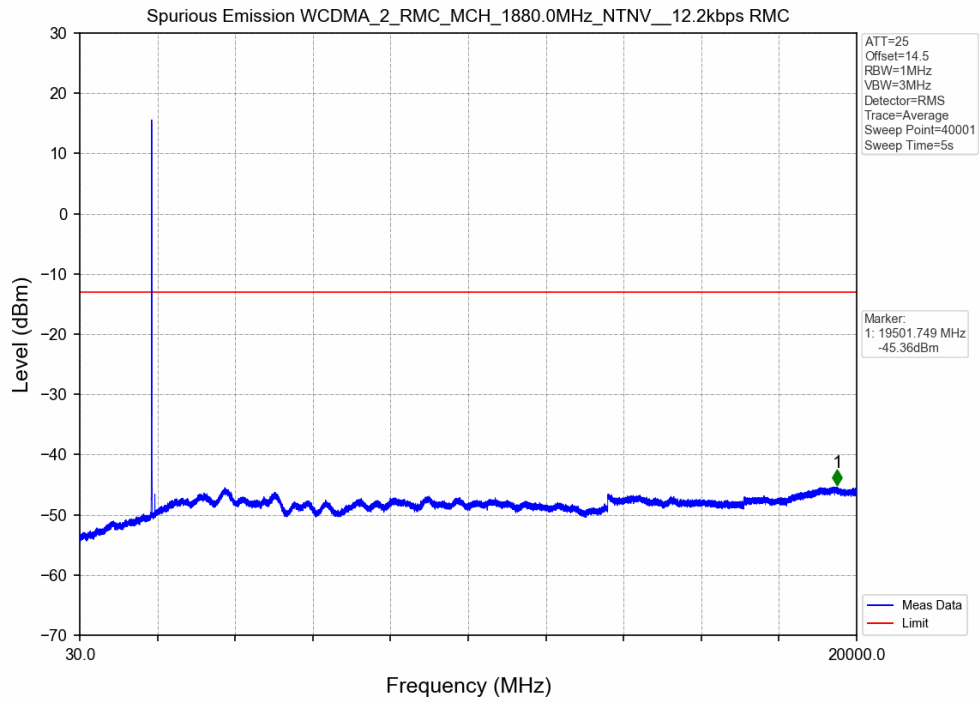
Test Band: 5											
Test Mode		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
		LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
HSUPA	Subtest 1	18.71	18.99	18.98	0.55	2.70	19.26	19.54	19.53	38.45	PASS
	Subtest 2	18.73	18.99	19.22	0.55	2.70	19.28	19.54	19.77	38.45	PASS
	Subtest 3	18.55	19.00	19.45	0.55	2.70	19.10	19.55	20.00	38.45	PASS
	Subtest 4	18.54	18.77	19.46	0.55	2.70	19.09	19.32	20.01	38.45	PASS
	Subtest 5	18.72	19.01	19.46	0.55	2.70	19.27	19.56	20.01	38.45	PASS
HSDPA	Subtest 1	18.47	18.71	18.93	0.55	2.70	19.02	19.26	19.48	38.45	PASS
	Subtest 2	18.17	19.07	19.22	0.55	2.70	18.72	19.62	19.77	38.45	PASS
	Subtest 3	18.22	18.72	18.95	0.55	2.70	18.77	19.27	19.50	38.45	PASS
	Subtest 4	18.50	19.24	19.41	0.55	2.70	19.05	19.79	19.96	38.45	PASS
RMC	12.2kbps RMC	22.98	23.57	23.75	0.55	2.70	23.53	24.12	24.30	38.45	PASS

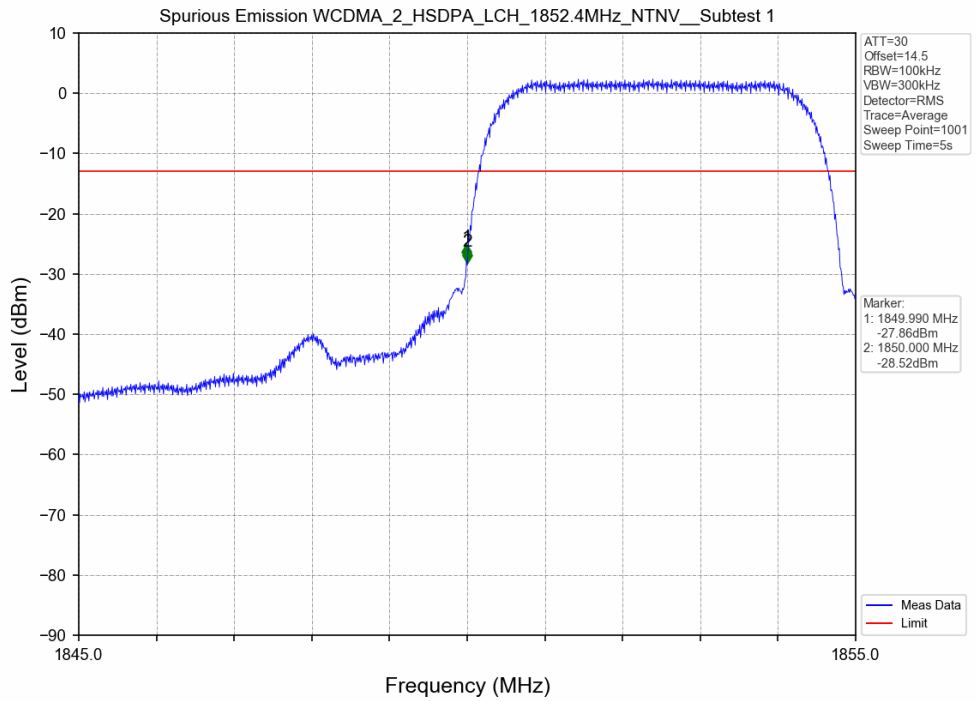
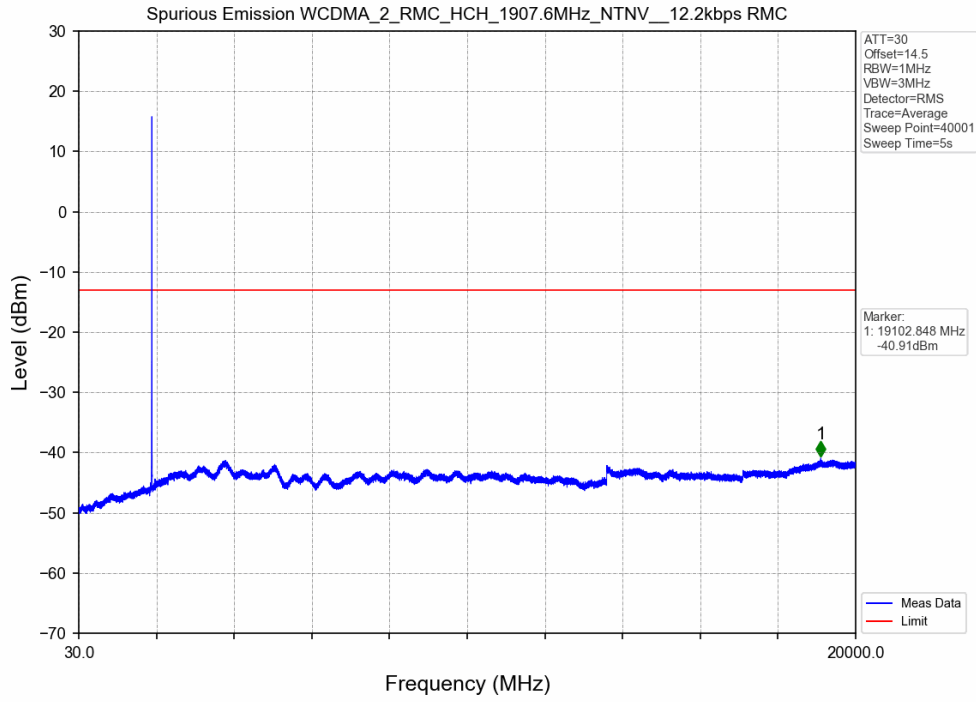
Note:  
 1) dBd = dBi - 2.15  
 2) EIRP = Conducted output power + Antenna gain (dBi)  
 3) ERP = Conducted output power + Antenna gain (dBd)

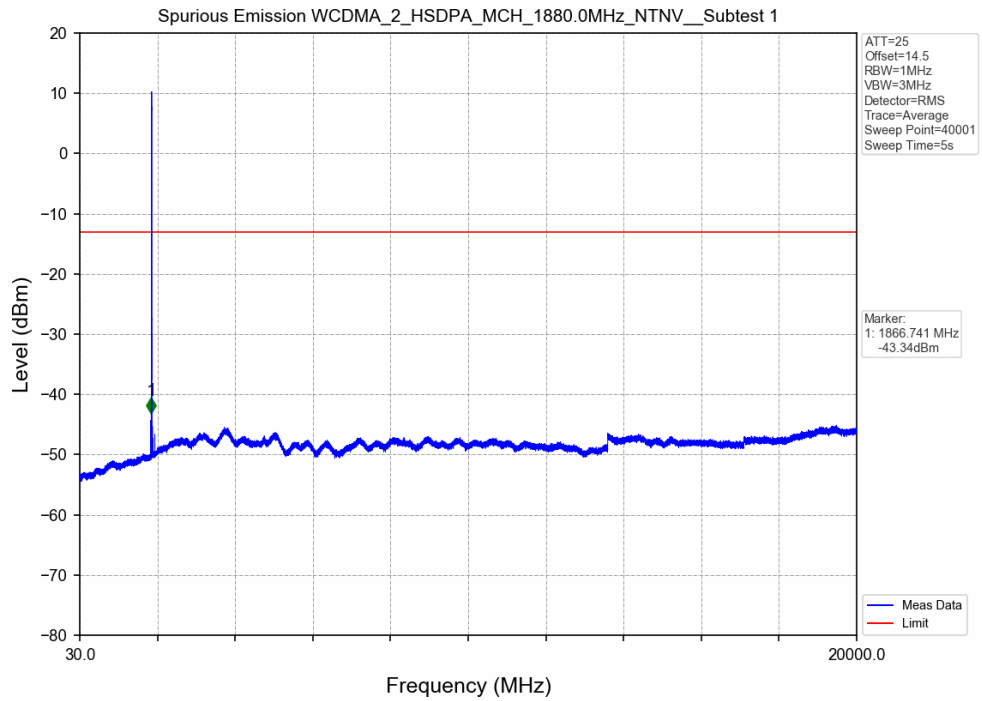
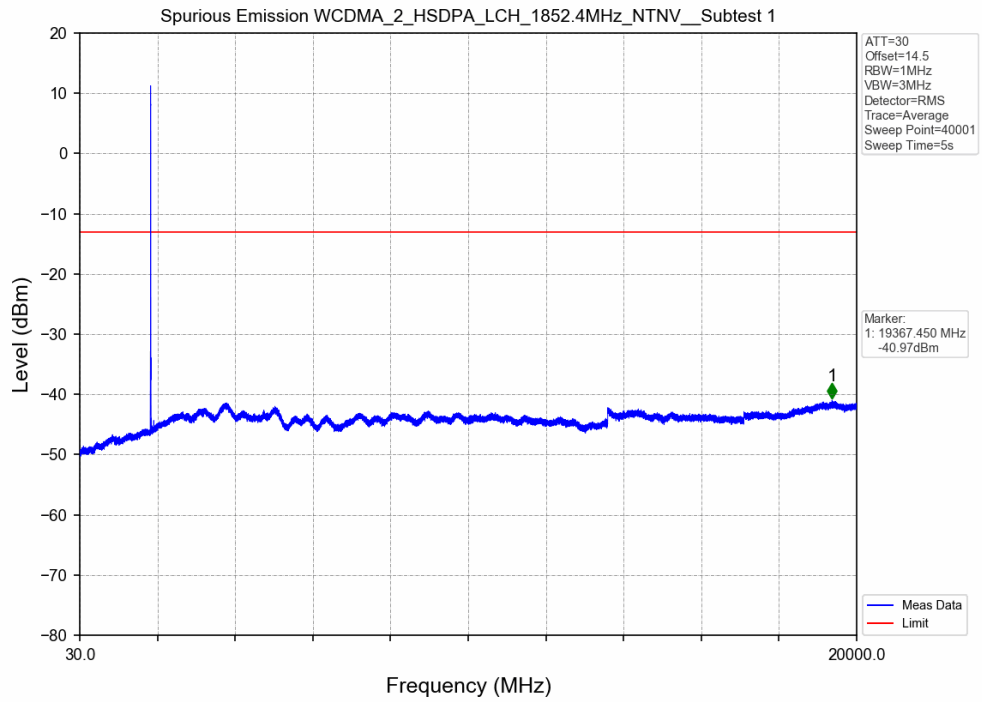
### 6.Spurious Emission

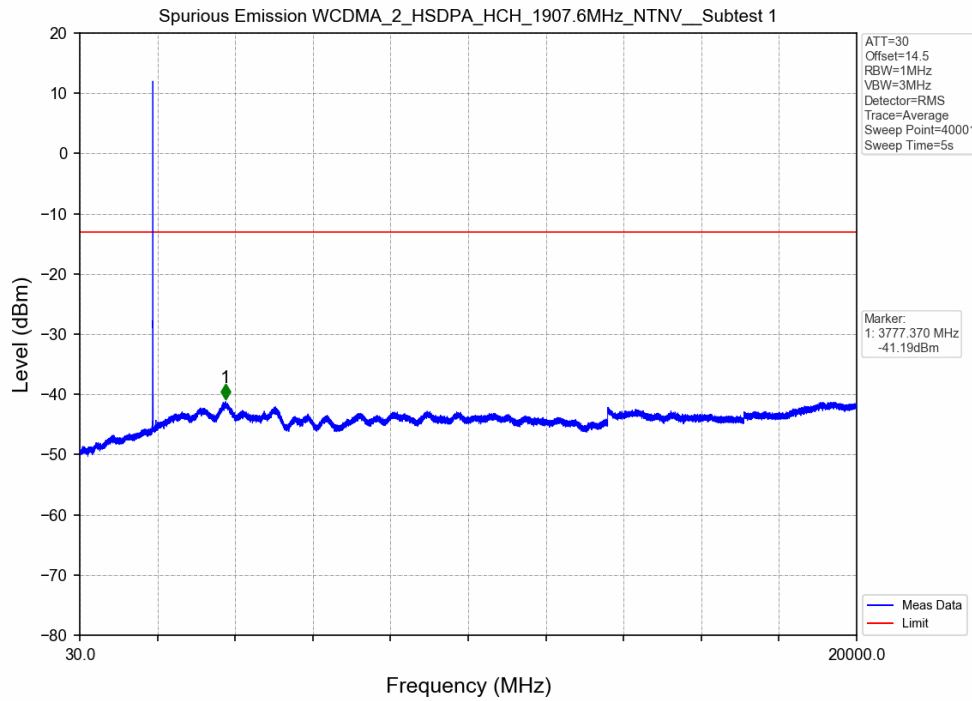
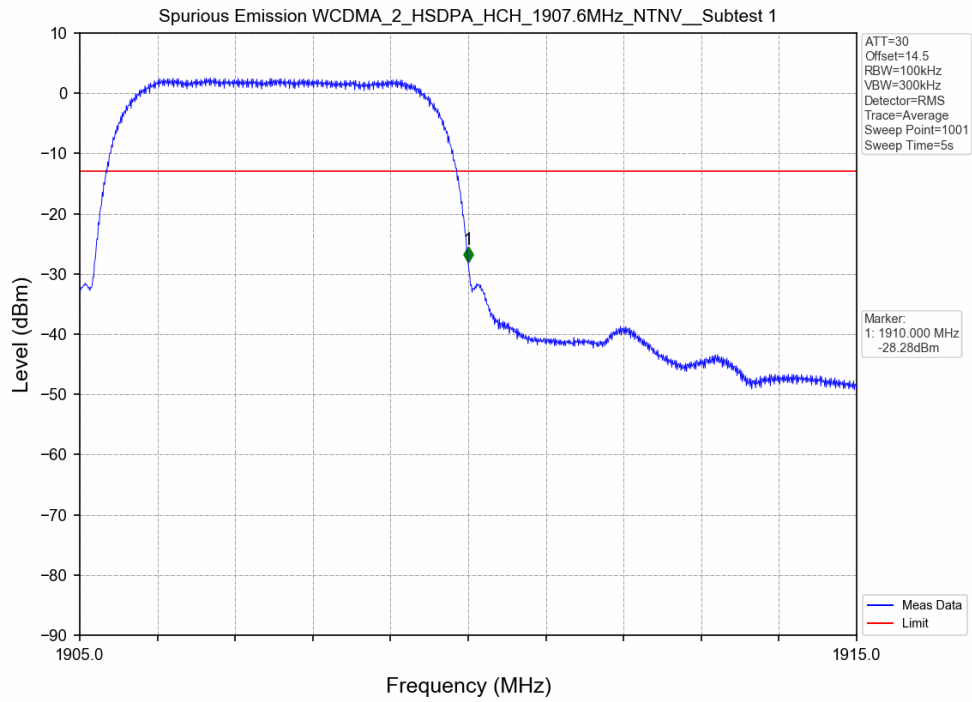
### Band 2

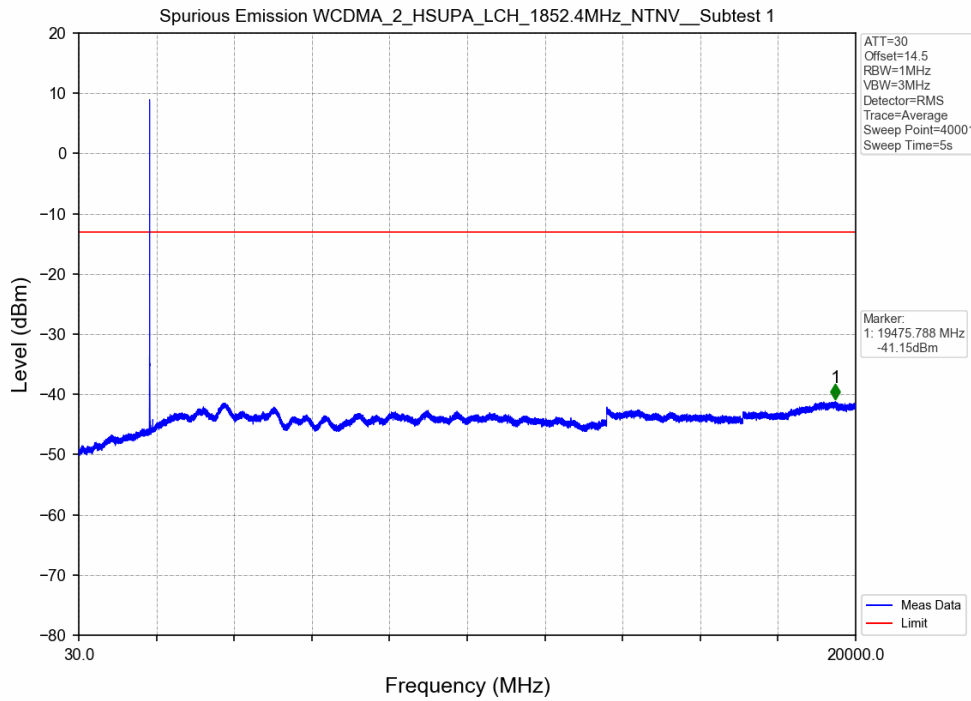
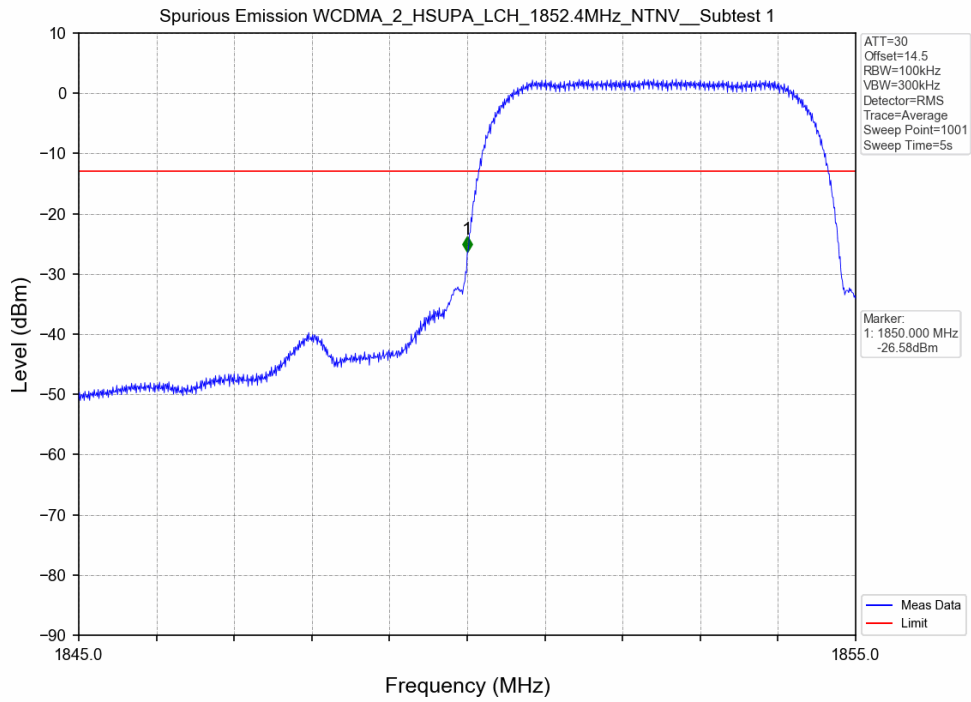




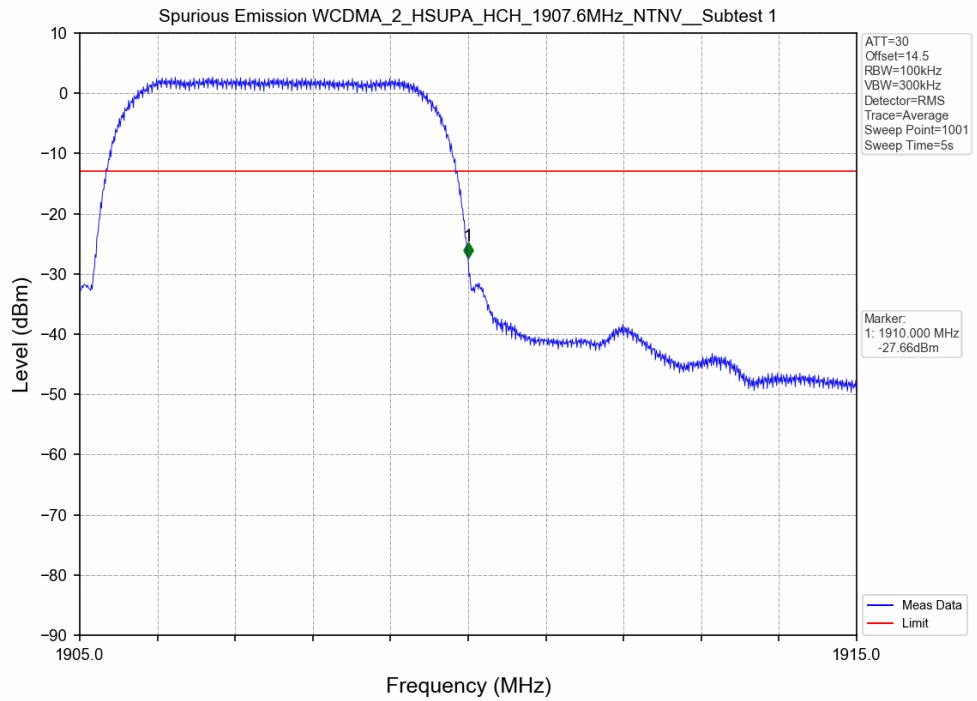
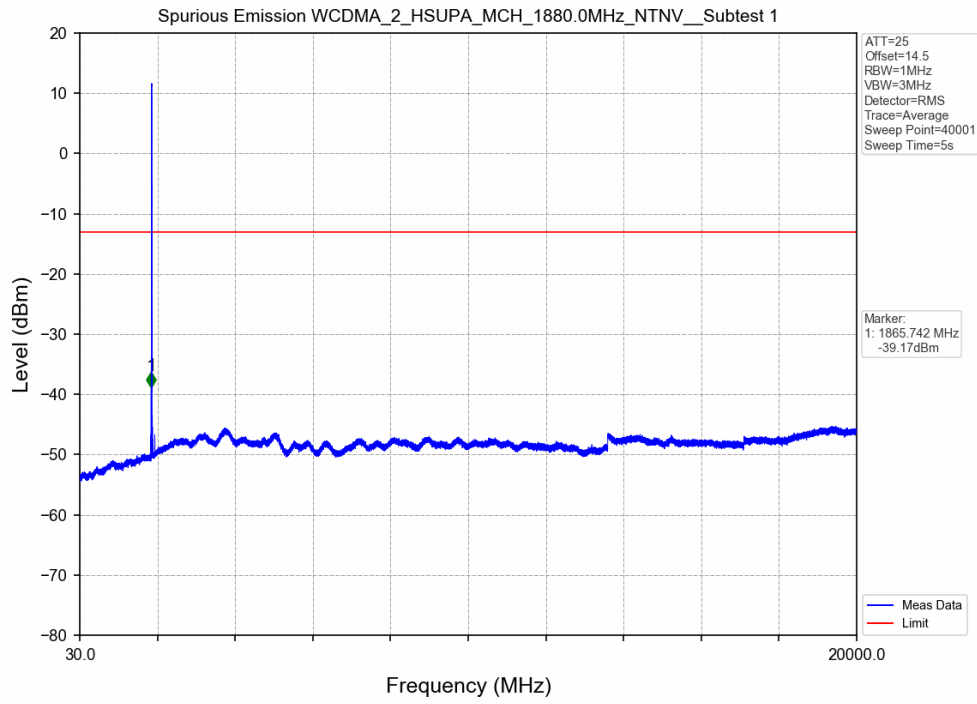


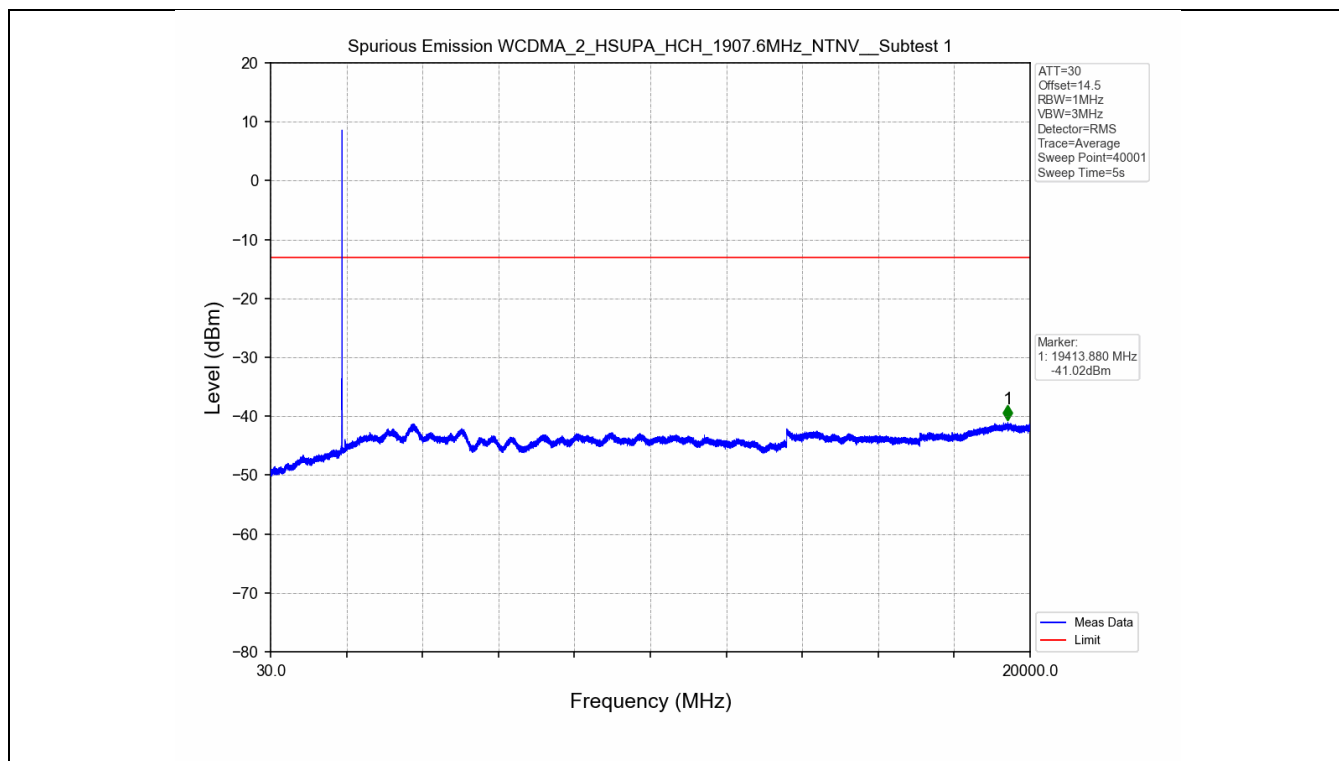












### Band 5

