

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

RF Power Output-FCC Part 22.913(a)/Part24.232 (b)

WCDMA band II

Antenna Gain=-1.70dBi

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
Release 99	RMC,12.2kbps	1852.4	9262	22.94
		1880.0	9400	22.93
		1907.6	9538	22.93
HSDPA	Subtest 1	1852.4	9262	22.56
		1880.0	9400	22.51
		1907.6	9538	22.53
	Subtest 2	1852.4	9262	22.53
		1880.0	9400	22.52
		1907.6	9538	22.50
	Subtest 3	1852.4	9262	22.49
		1880.0	9400	22.46
		1907.6	9538	22.48
	Subtest 4	1852.4	9262	22.44
		1880.0	9400	22.49
		1907.6	9538	22.47
HSUPA	Subtest 1	1852.4	9262	22.50
		1880.0	9400	22.48
		1907.6	9538	22.49
	Subtest 2	1852.4	9262	22.44
		1880.0	9400	22.47
		1907.6	9538	22.45
	Subtest 3	1852.4	9262	22.39
		1880.0	9400	22.43
		1907.6	9538	22.41
	Subtest 4	1852.4	9262	22.36
		1880.0	9400	22.39
		1907.6	9538	22.40
	Subtest 5	1852.4	9262	22.40
		1880.0	9400	22.37
		1907.6	9538	22.35
HSPA+	Subtest 1(QPSK)	1852.4	9262	22.54
		1880.0	9400	22.51
		1907.6	9538	22.52
	Subtest 1(16QAM)	1852.4	9262	21.65
		1880.0	9400	21.56
		1907.6	9538	21.44

WCDMA band V

Antenna Gain=-2.20dBi

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
Release 99	RMC,12.2kbps	826.4	4132	22.82
		836.6	4183	22.85
		846.6	4233	22.88
HSDPA	Subtest 1	826.4	4132	22.67
		836.6	4183	22.69
		846.6	4233	22.71
	Subtest 2	826.4	4132	22.66
		836.6	4183	22.68
		846.6	4233	22.69
	Subtest 3	826.4	4132	22.59
		836.6	4183	22.63
		846.6	4233	22.65
	Subtest 4	826.4	4132	22.55
		836.6	4183	22.58
		846.6	4233	22.61
HSUPA	Subtest 1	826.4	4132	22.44
		836.6	4183	22.42
		846.6	4233	22.48
	Subtest 2	826.4	4132	22.37
		836.6	4183	22.39
		846.6	4233	22.33
	Subtest 3	826.4	4132	22.37
		836.6	4183	22.35
		846.6	4233	22.29
	Subtest 4	826.4	4132	22.41
		836.6	4183	22.36
		846.6	4233	22.40
	Subtest 5	826.4	4132	22.31
		836.6	4183	22.33
		846.6	4233	22.37
HSPA+	Subtest 1(QPSK)	826.4	4132	22.18
		836.6	4183	22.19
		846.6	4233	22.22
	Subtest 1(16QAM)	826.4	4132	21.34
		836.6	4183	21.36
		846.6	4233	21.32

WCDMA band IV

Antenna Gain=-1.40dBi

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
Release 99	RMC,12.2kbps	1712.4	1312	22.95
		1732.4	1412	22.96
		1752.6	1513	22.94
HSDPA	Subtest 1	1712.4	1312	22.55
		1732.4	1412	22.57
		1752.6	1513	22.53
	Subtest 2	1712.4	1312	22.53
		1732.4	1412	22.51
		1752.6	1513	22.50
	Subtest 3	1712.4	1312	22.48
		1732.4	1412	22.51
		1752.6	1513	22.49
	Subtest 4	1712.4	1312	22.48
		1732.4	1412	22.45
		1752.6	1513	22.47
HSUPA	Subtest 1	1712.4	1312	22.66
		1732.4	1412	22.63
		1752.6	1513	22.61
	Subtest 2	1712.4	1312	22.61
		1732.4	1412	22.63
		1752.6	1513	22.64
	Subtest 3	1712.4	1312	22.59
		1732.4	1412	22.55
		1752.6	1513	22.52
	Subtest 4	1712.4	1312	22.48
		1732.4	1412	22.46
		1752.6	1513	22.44
	Subtest 5	1712.4	1312	22.49
		1732.4	1412	22.43
		1752.6	1513	22.41
HSPA+	Subtest 1(QPSK)	1712.4	1312	22.51
		1732.4	1412	22.48
		1752.6	1513	22.45
	Subtest 1(16QAM)	1712.4	1312	21.41
		1732.4	1412	21.46
		1752.6	1513	21.43

Occupied Bandwidth-FCC 2.1049/ 27.53(h)(1)

WCDMA band II

REL99 Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
1852.4	9262	4.1400
1880.0	9400	4.1412
1907.6	9538	4.1371

HSDPA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
1852.4	9262	4.1428
1880.0	9400	4.1402
1907.6	9538	4.1388

HSPA+(16QAM) Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
1852.4	9262	4.1438
1880.0	9400	4.1453
1907.6	9538	4.1559

WCDMA band V

REL99 Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
826.4	4132	4.1445
836.6	4183	4.1433
846.6	4233	4.1397

HSDPA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
826.4	4132	4.1400
836.6	4183	4.1426
846.6	4233	4.1443

HSPA+(16QAM) Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
826.4	4132	4.1447
836.6	4183	4.1370
846.6	4233	4.1394

WCDMA band IV

REL99 Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
1712.4	1312	4.1424
1732.4	1412	4.1500
1752.6	1513	4.1432

HSDPA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
1712.4	1312	4.1401
1732.4	1412	4.1495
1752.6	1513	4.1559

HSPA+(16QAM) Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
1712.4	1312	4.1475
1732.4	1412	4.1439
1752.6	1513	4.1514

Emission Bandwidth-FCC 22.917(b)/24.238(b)

WCDMA band II

REL99 Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
1852.4	9262	4.639
1880.0	9400	4.676
1907.6	9538	4.610

HSDPA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
1852.4	9262	4.623
1880.0	9400	4.627
1907.6	9538	4.603

HSPA+(16QAM) Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
1852.4	9262	4.600
1880.0	9400	4.645
1907.6	9538	4.658

WCDMA band V

REL99 Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
826.4	4132	4.629
836.6	4183	4.642
846.6	4233	4.613

HSDPA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
826.4	4132	4.629
836.6	4183	4.622
846.6	4233	4.648

HSPA+(16QAM) Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
826.4	4132	4.652
836.6	4183	4.627
846.6	4233	4.614

WCDMA band IV

REL99 Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
1712.4	1312	4.634
1732.4	1412	4.644
1752.6	1513	4.639

HSDPA Mode:

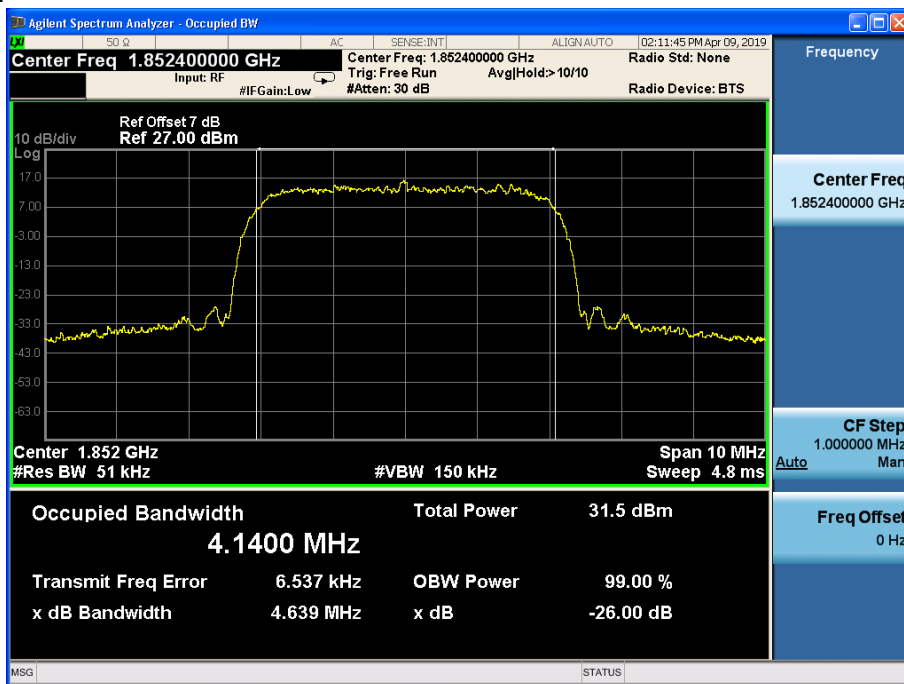
Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
1712.4	1312	4.653
1732.4	1412	4.666
1752.6	1513	4.659

HSPA+(16QAM) Mode:

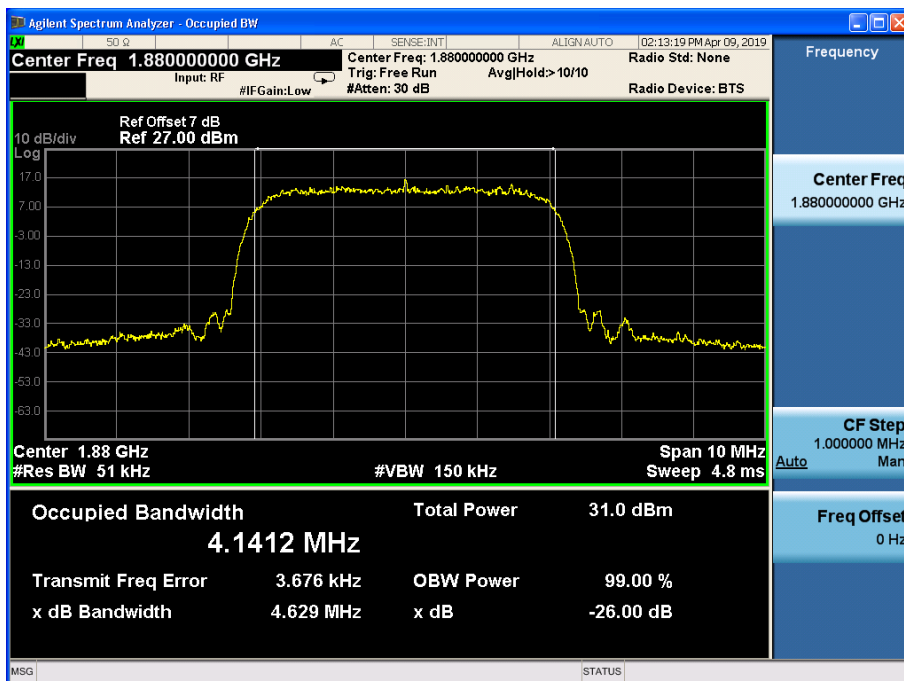
Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
1712.4	1312	4.657
1732.4	1412	4.651
1752.6	1513	4.661

WCDMA band II

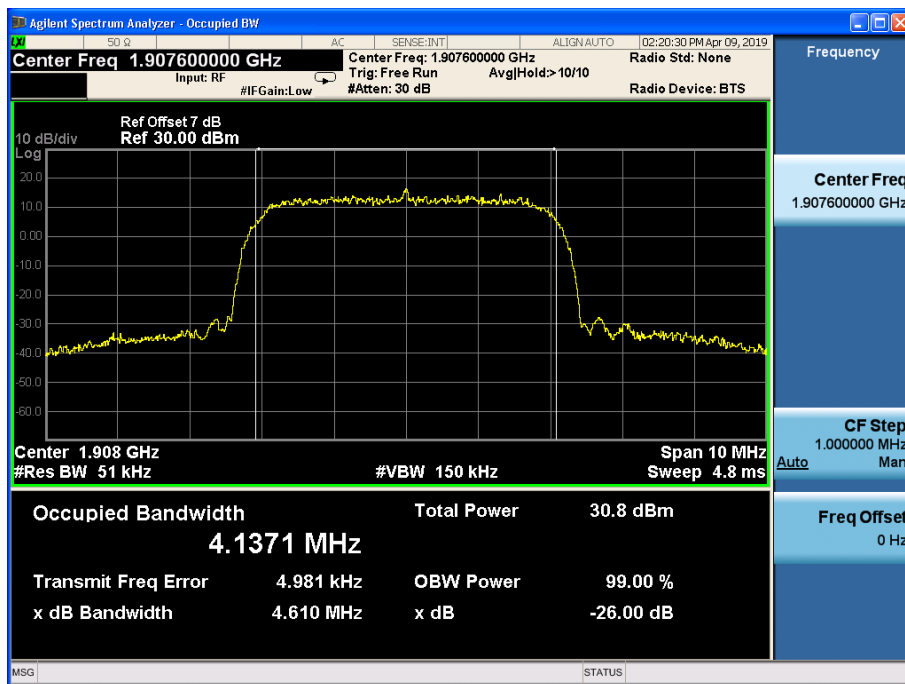
REL99 Mode:



Channel 9262

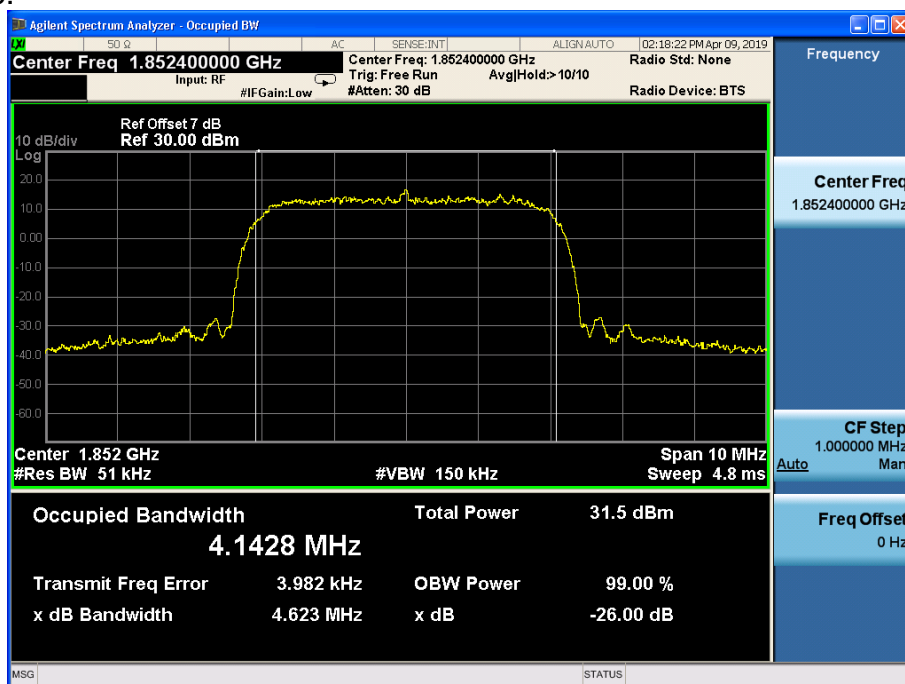


Channel 9400

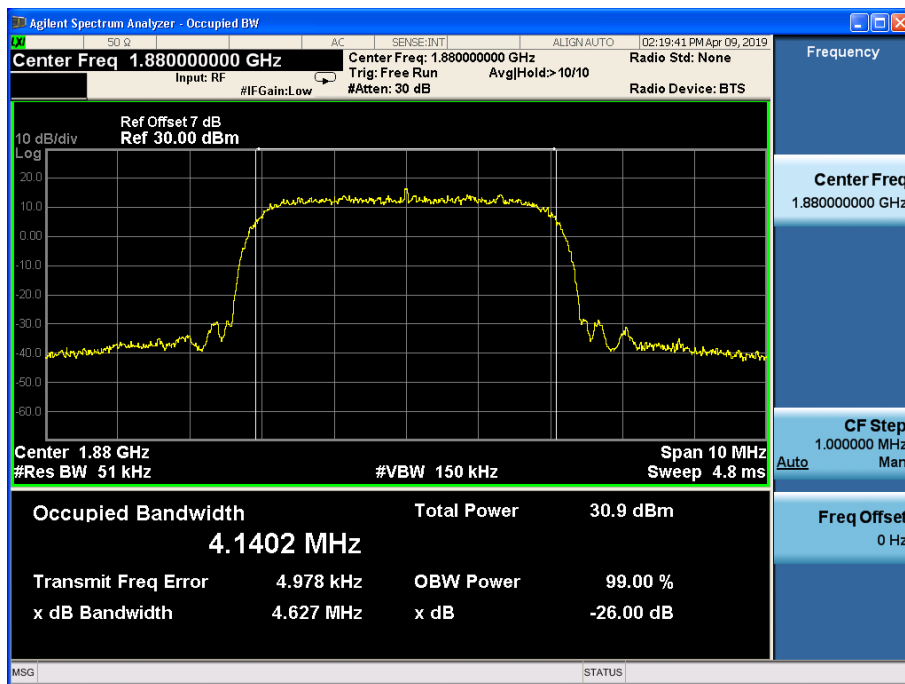


Channel 9538

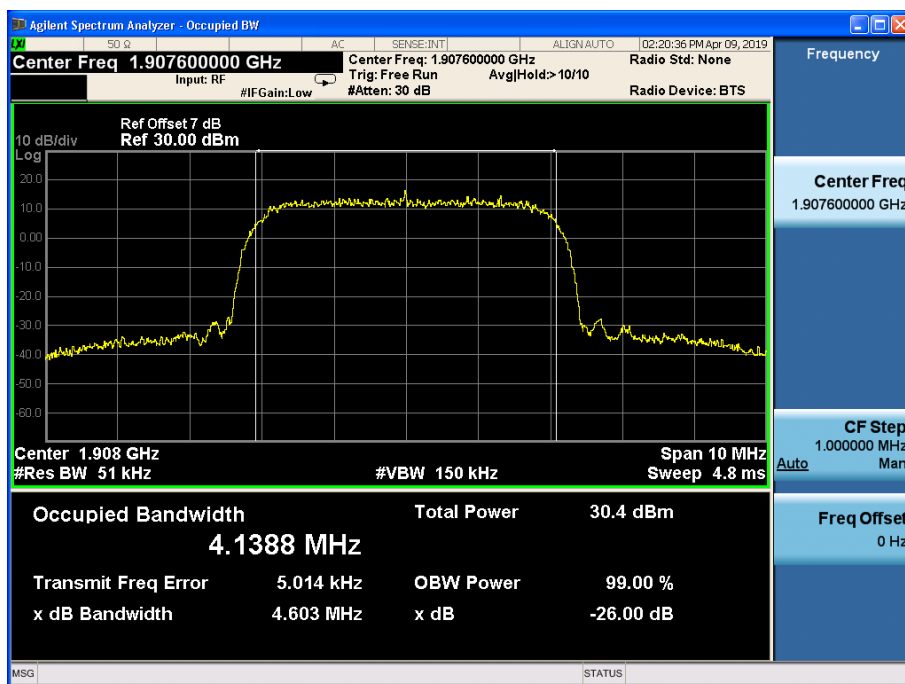
HSDPA Mode:



Channel 9262

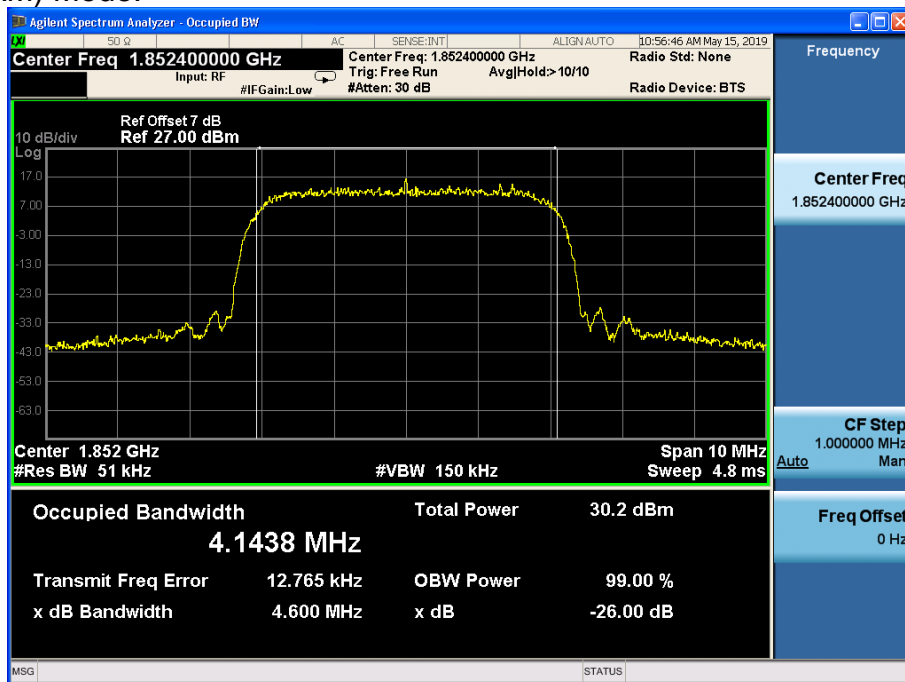


Channel 9400

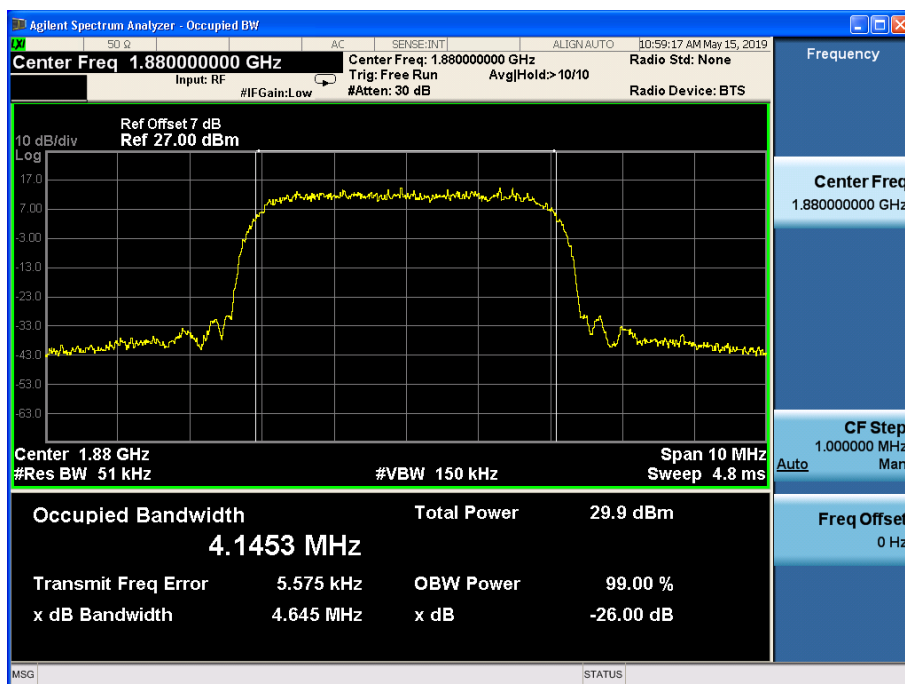


Channel 9538

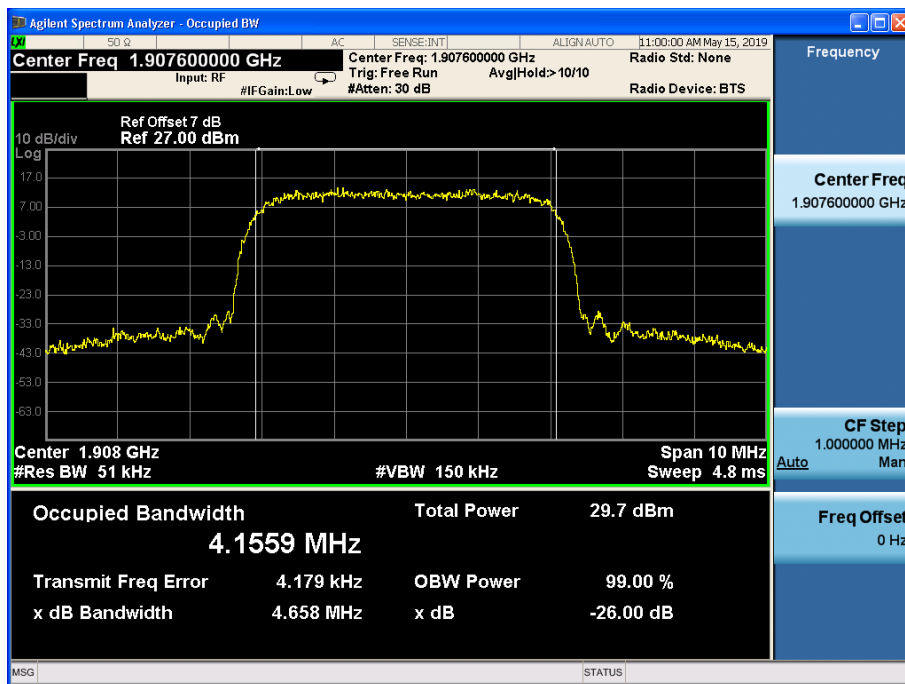
HSPA+(16QAM) Mode:



Channel 9262



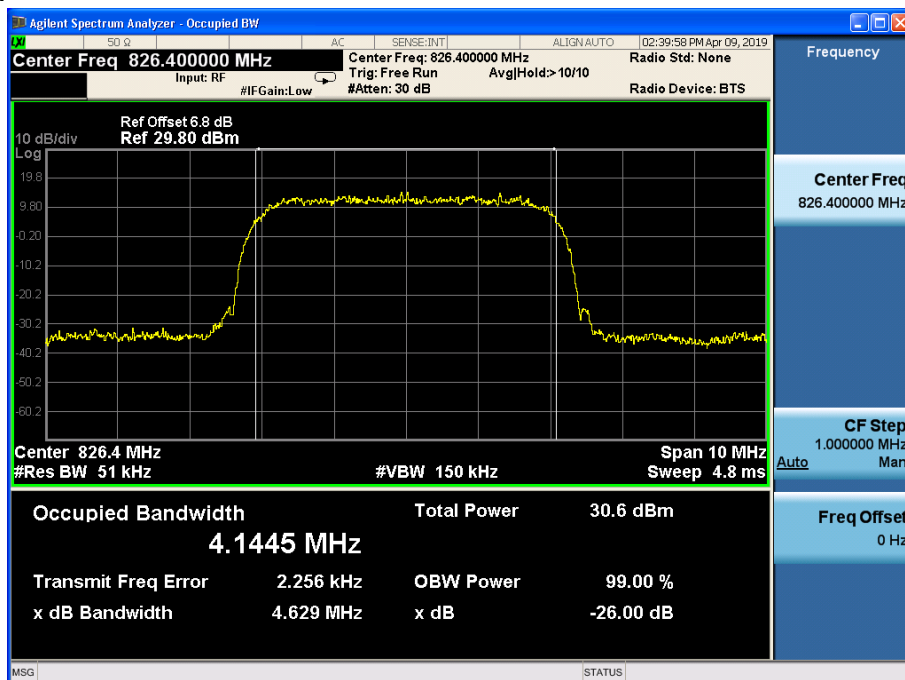
Channel 9400



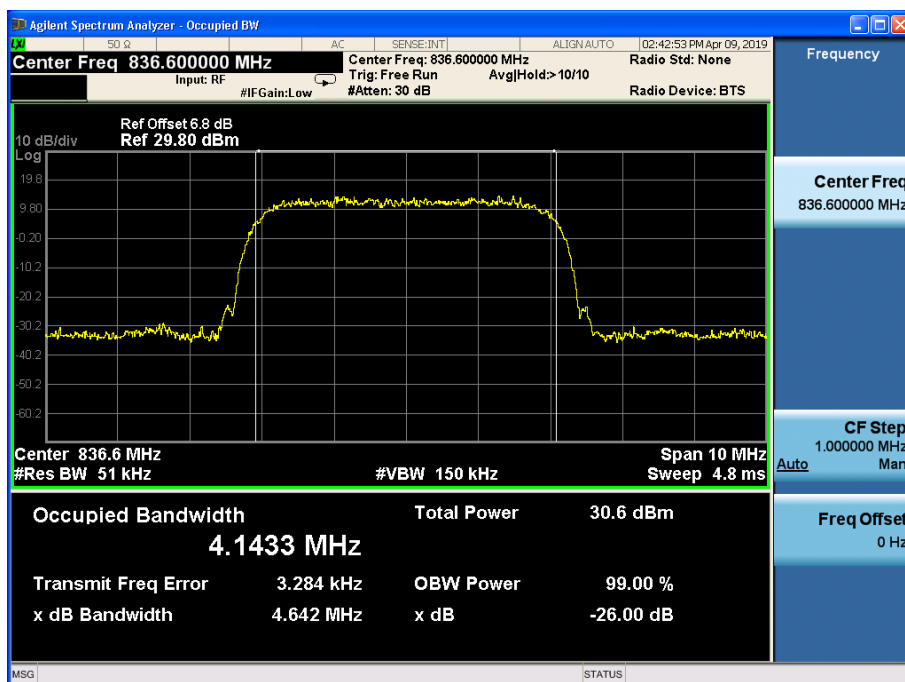
Channel 9538

WCDMA band V

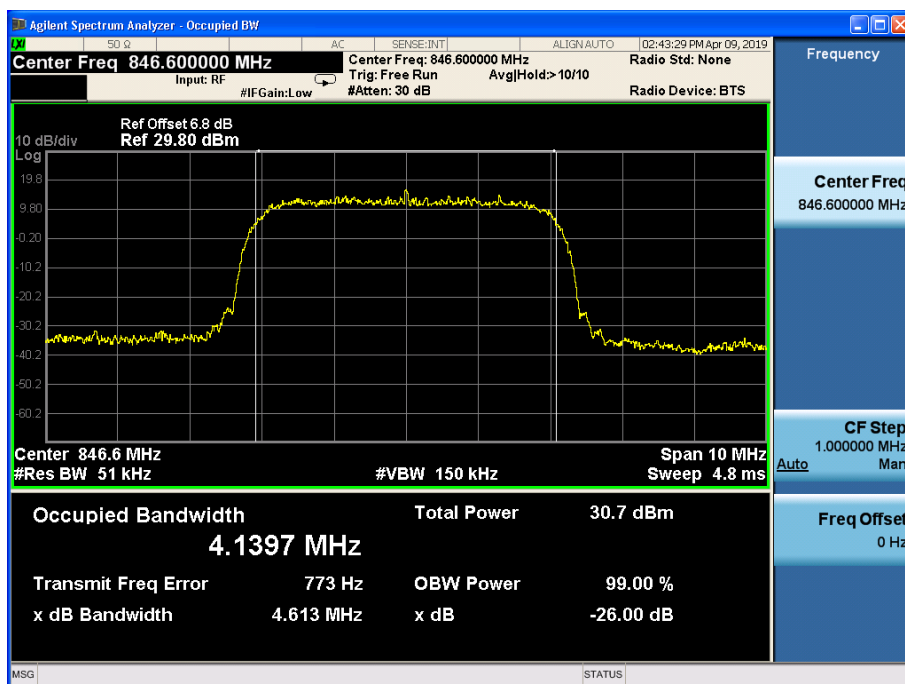
REL99 Mode:



Channel 4132

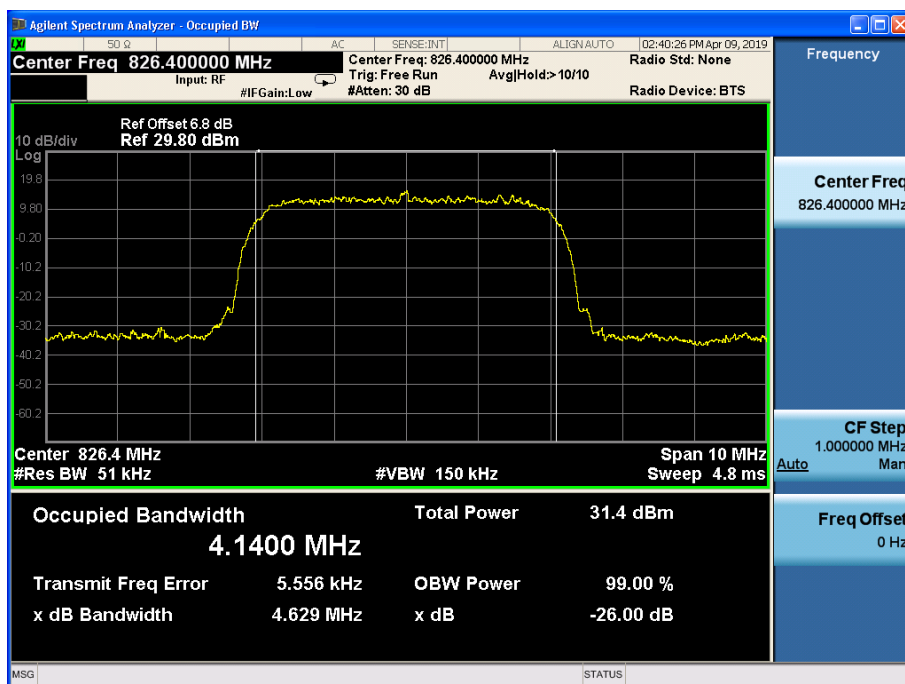


Channel 4183

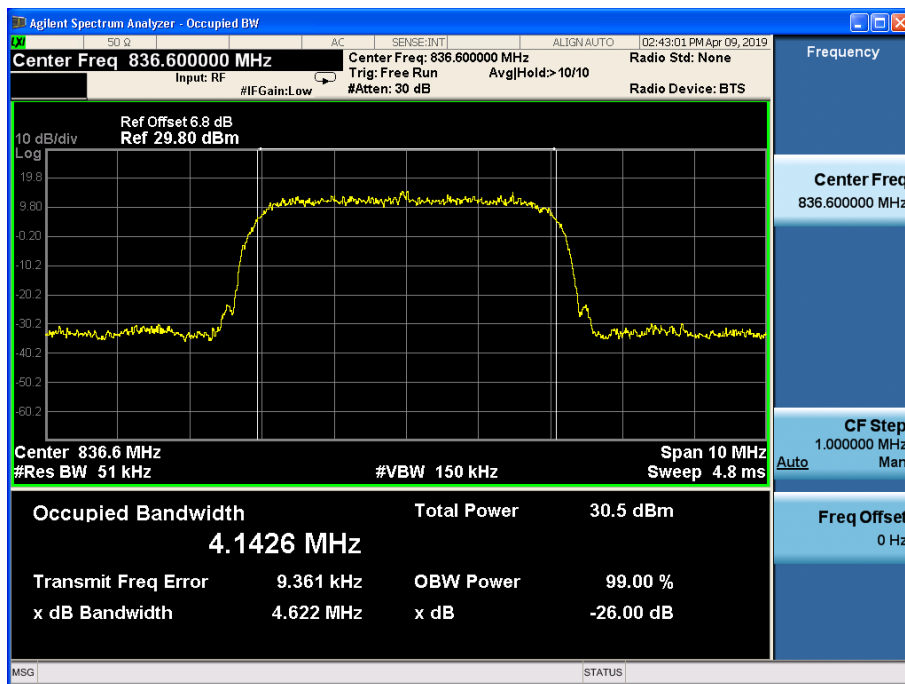


Channel 4233

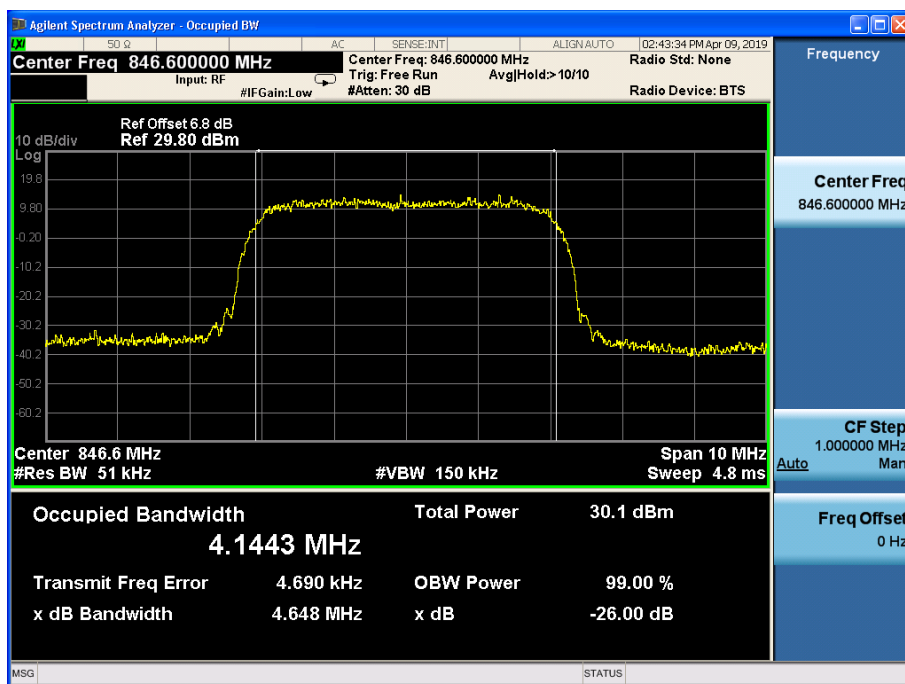
HSDPA:



Channel 4132

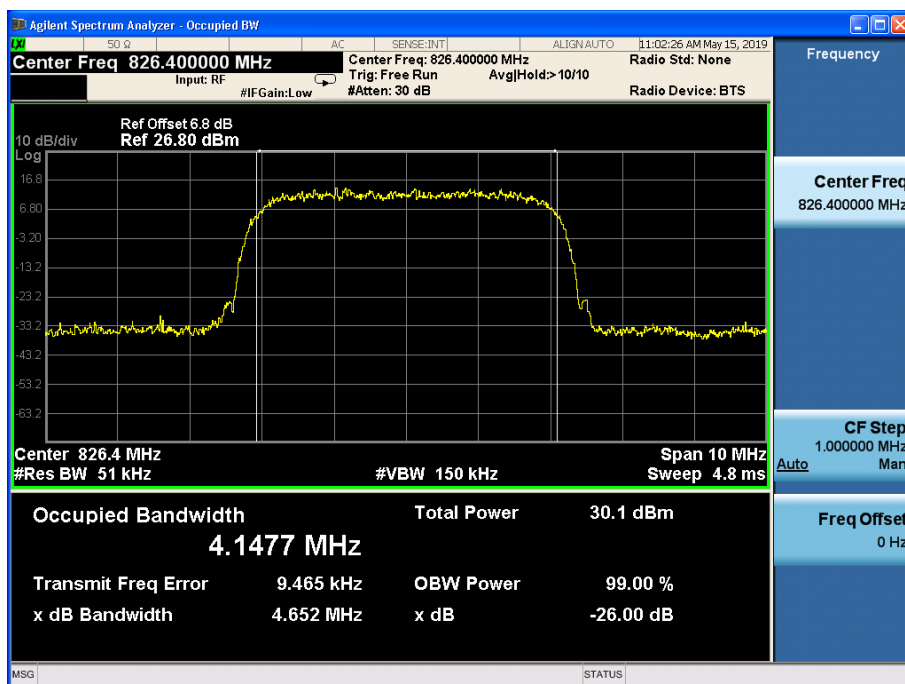


Channel 4183

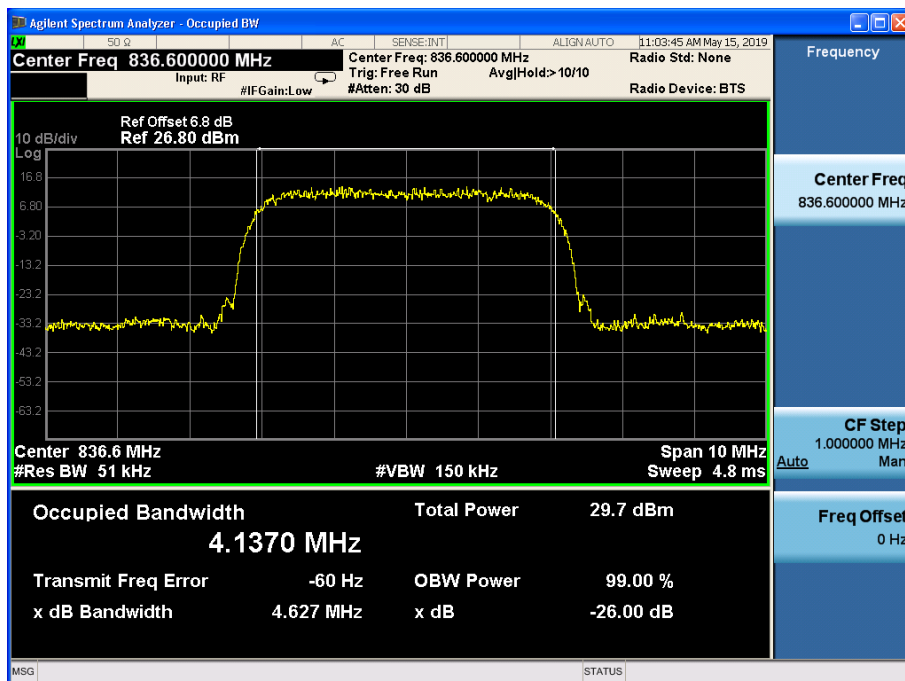


Channel 4233

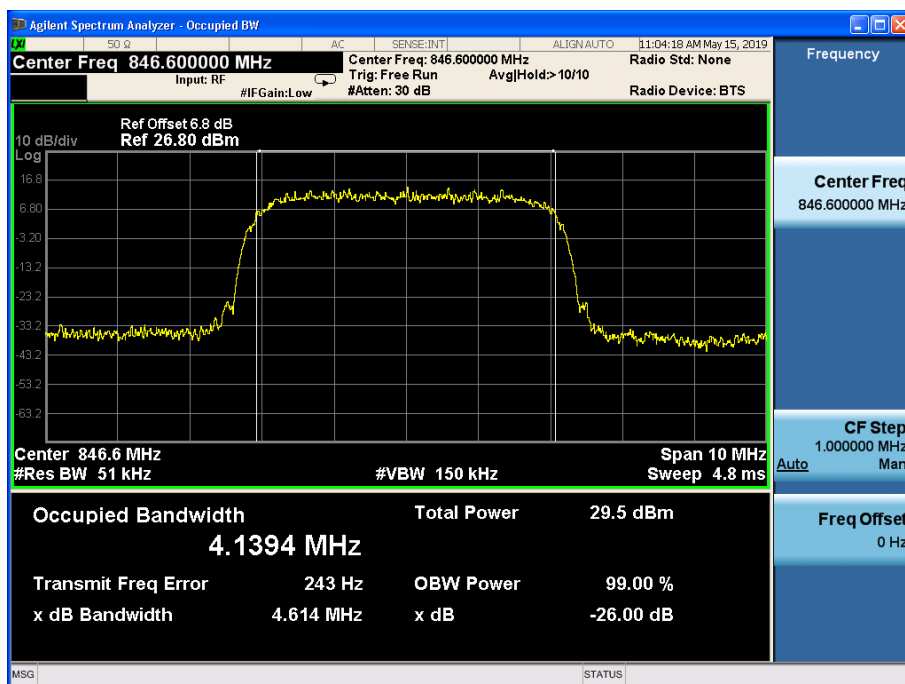
HSPA+(16QAM) Mode:



Channel 4132



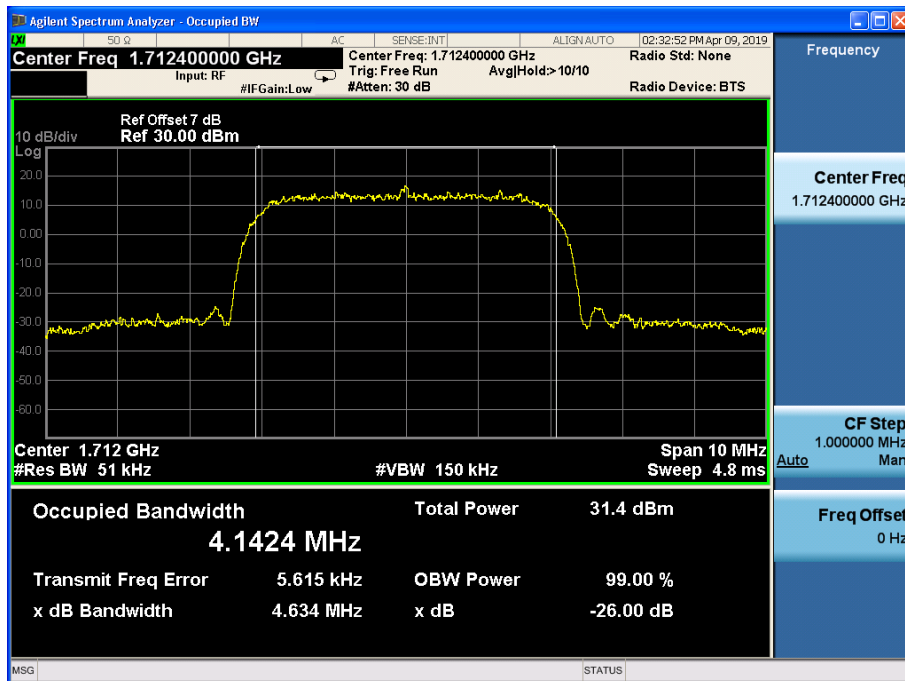
Channel 4183



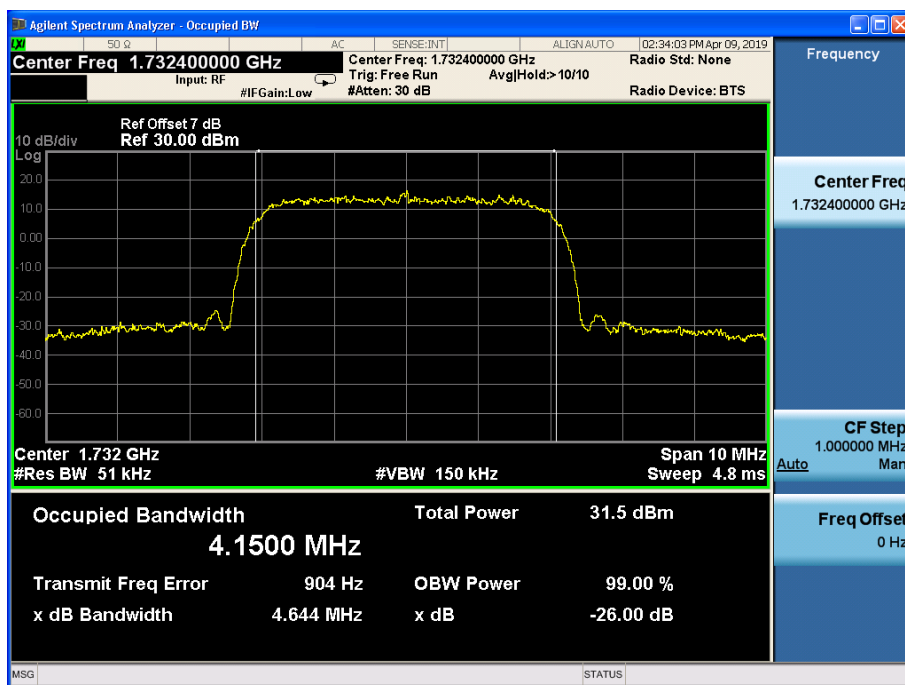
Channel 4233

WCDMA band IV

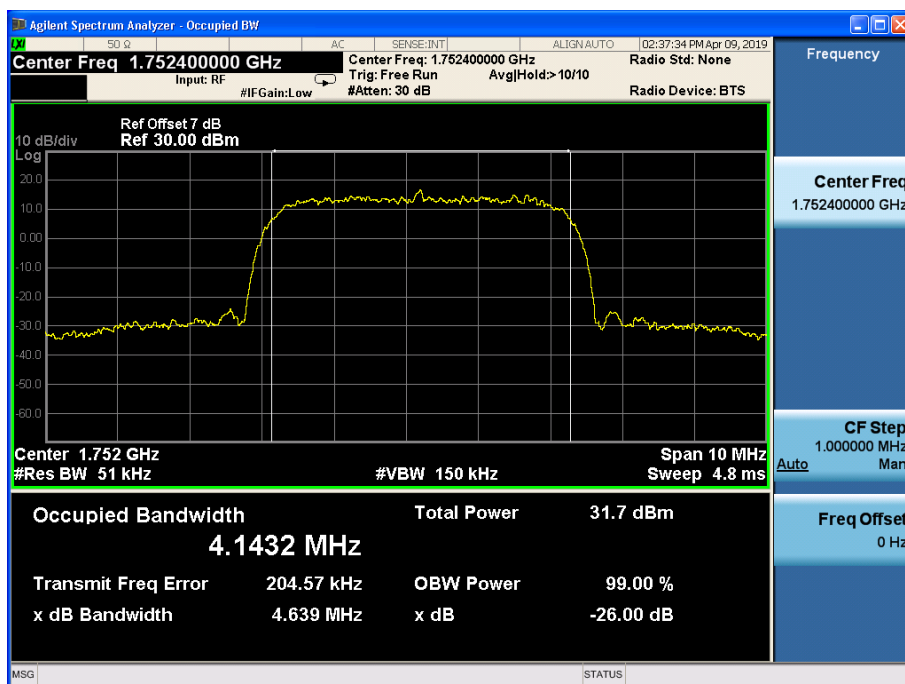
REL99 Mode:



Channel 1312

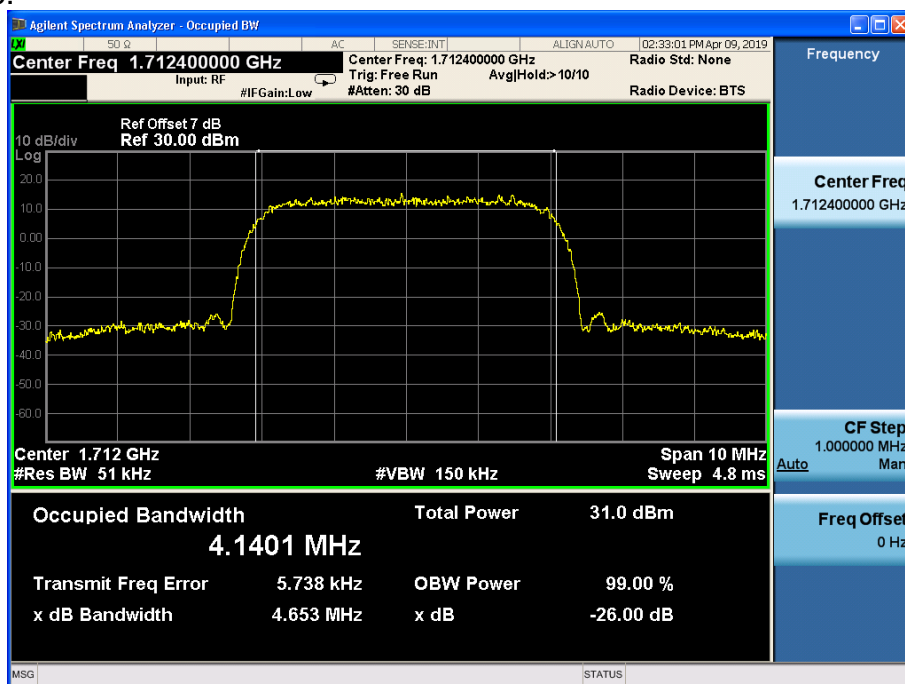


Channel 1412

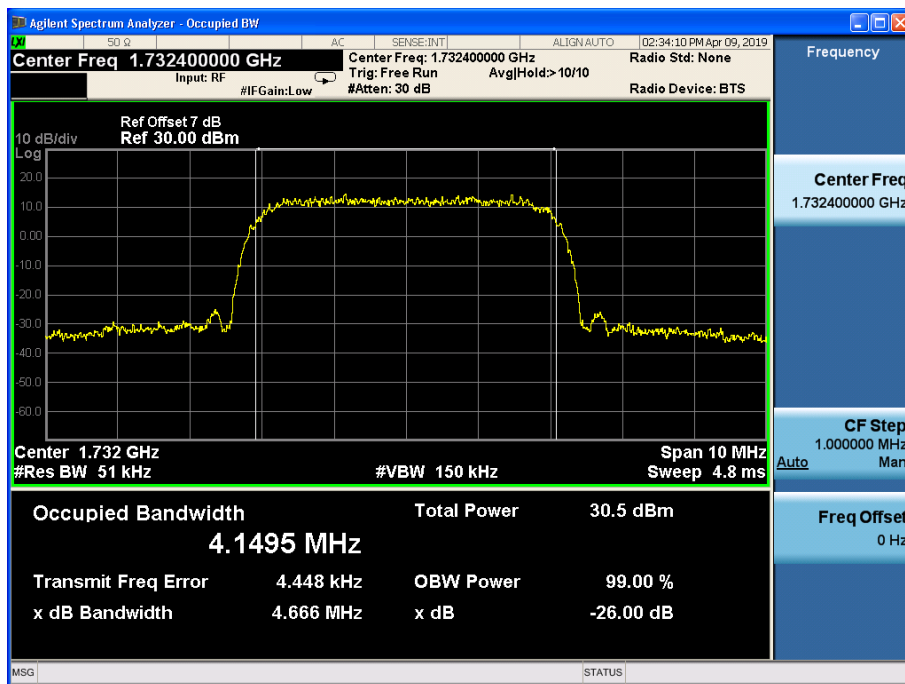


Channel 1513

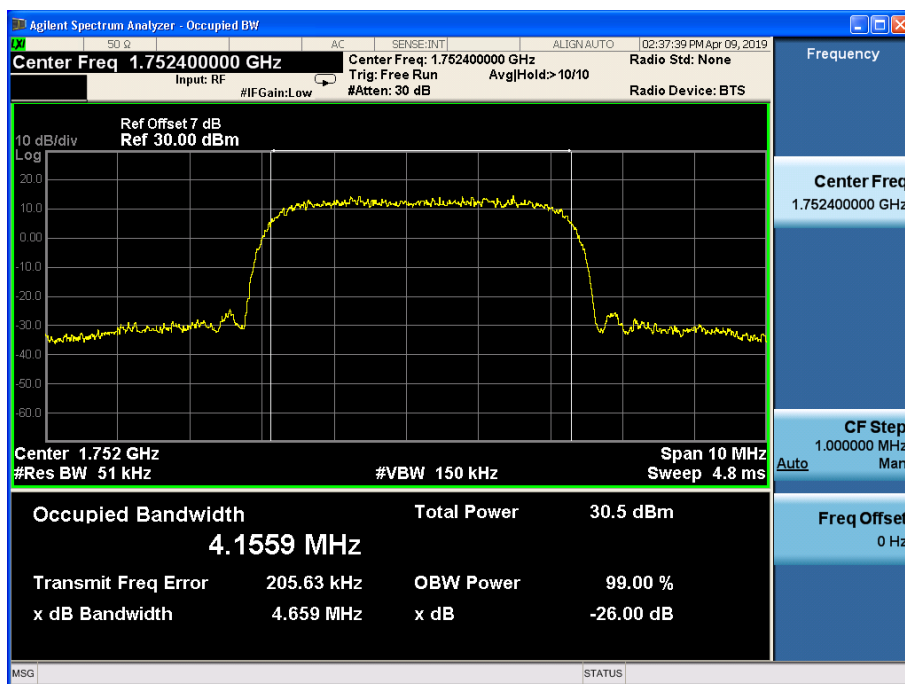
HSDPA Mode:



Channel 1312

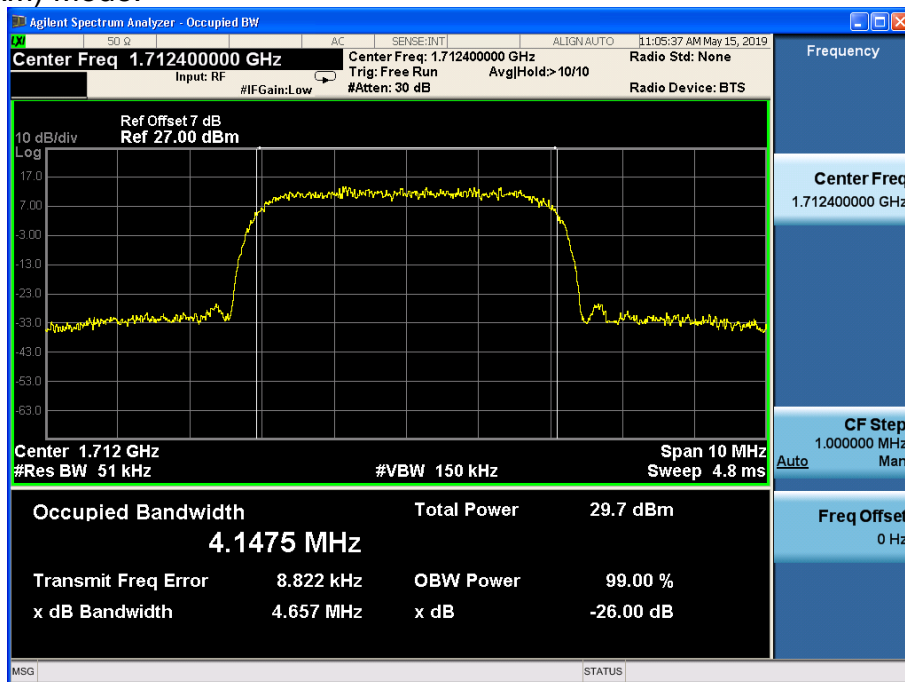


Channel 1412

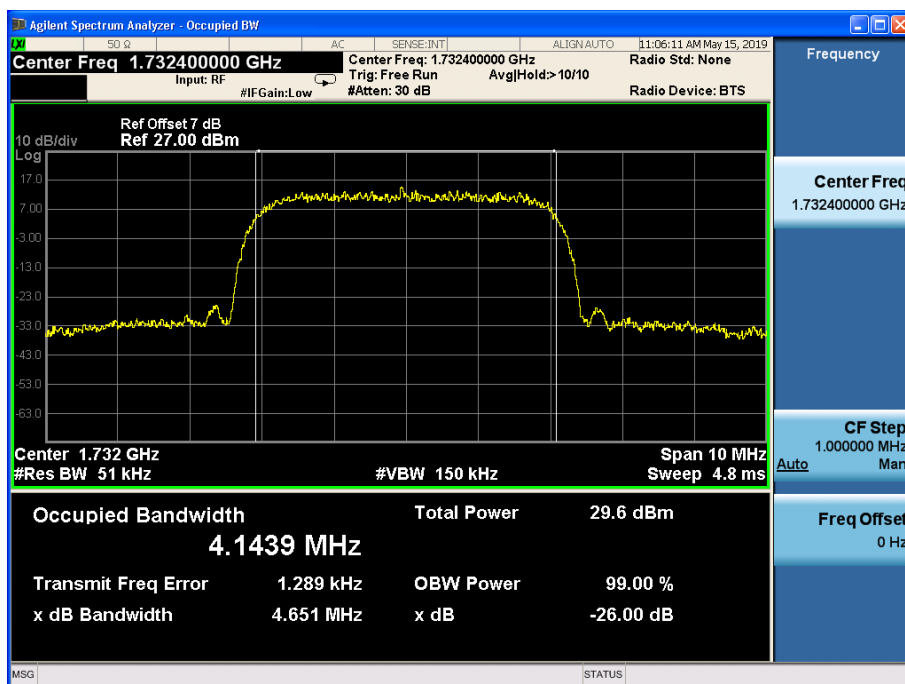


Channel 1513

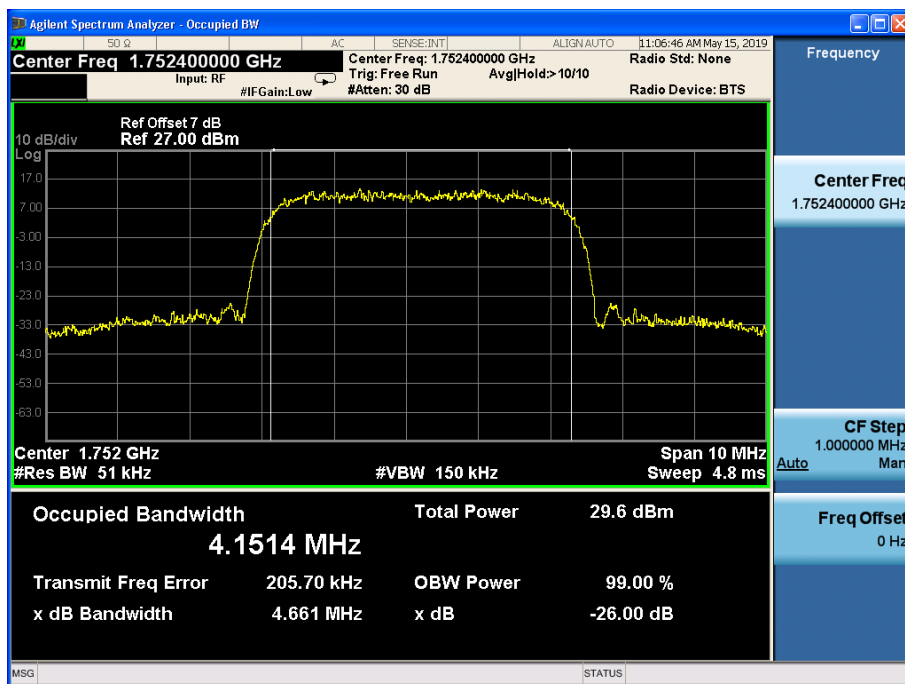
HSPA+(16QAM) Mode:



Channel 1312



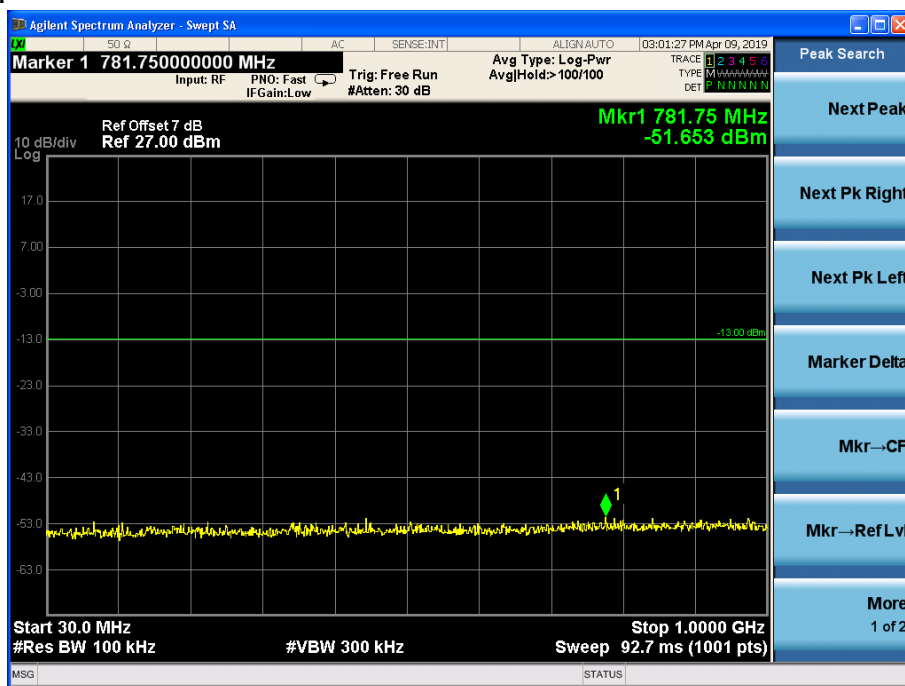
Channel 1412



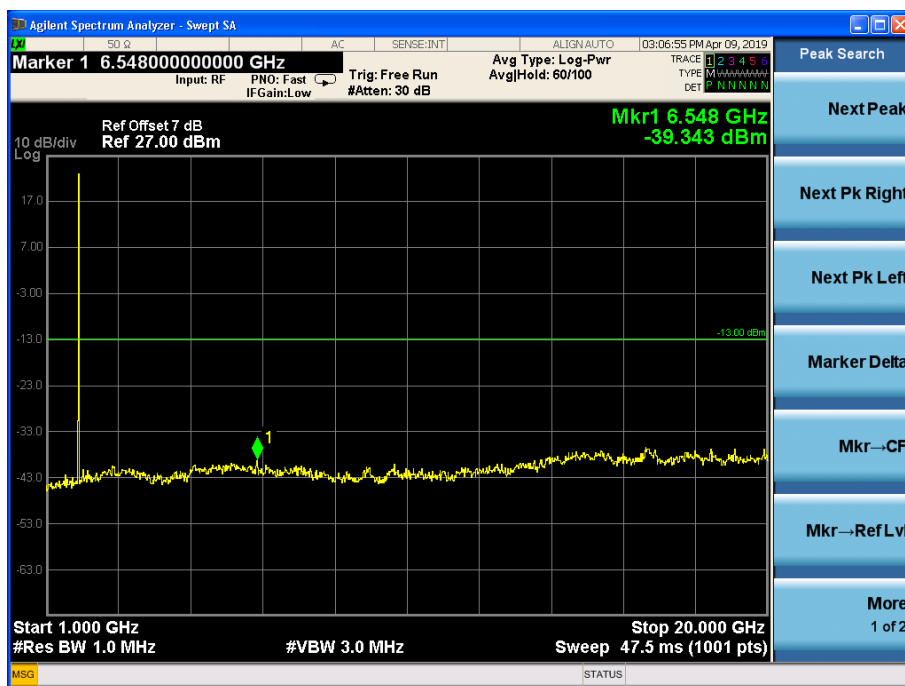
Channel 1513

Spurious Emissions at antenna terminal-FCC Part2.1051/ 22.917(a)/24.238(a)/ 27.53(h) WCDMA band II

REL99 Mode:



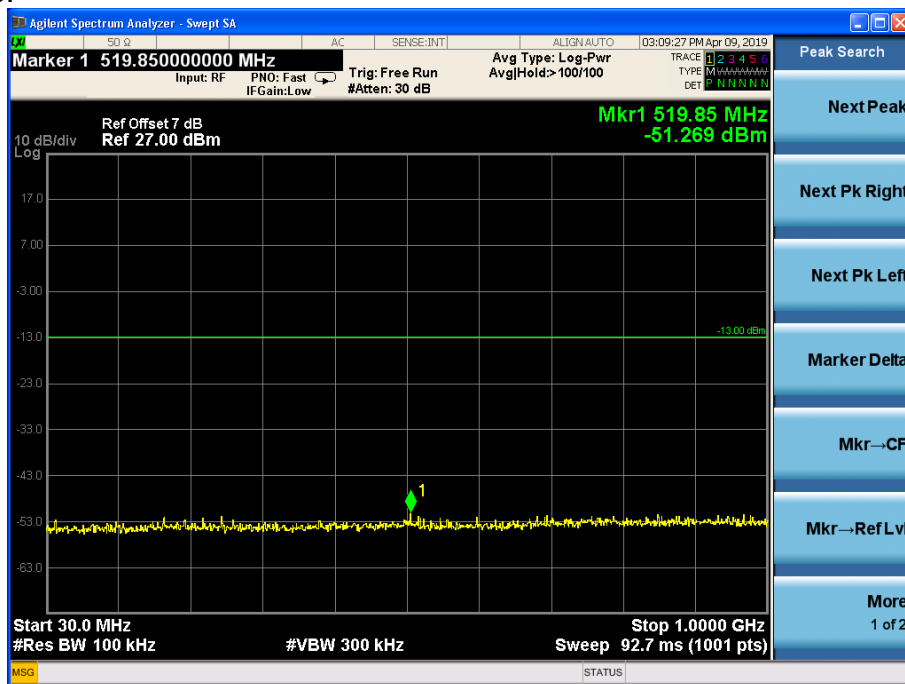
Channel 9400, 30MHz~1GHz



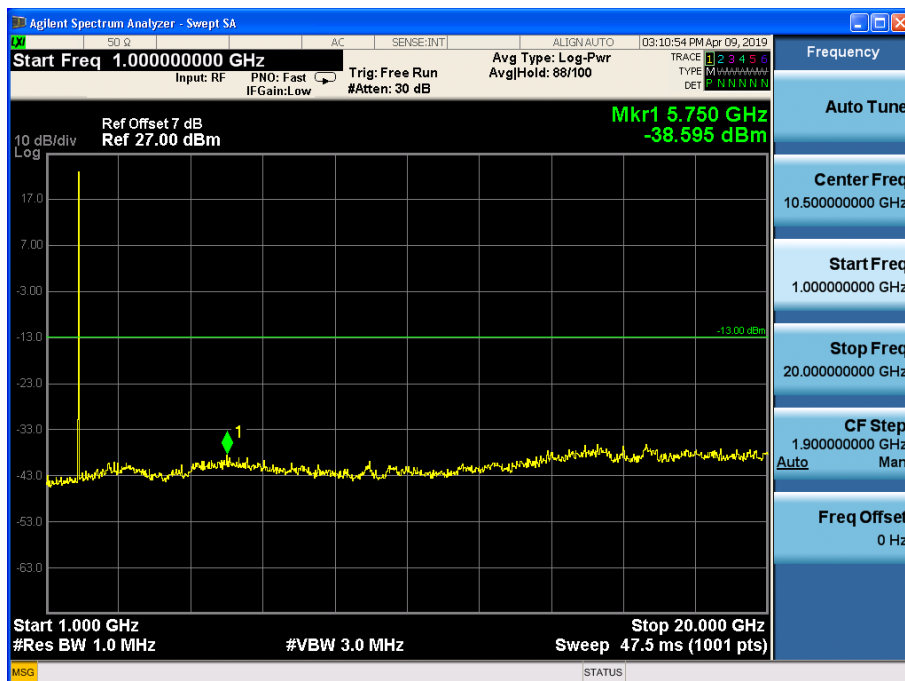
Channel 9400, 1GHz~20GHz

Note: The signal beyond the limit is the signal transmitted by EUT.

HSDPA Mode:



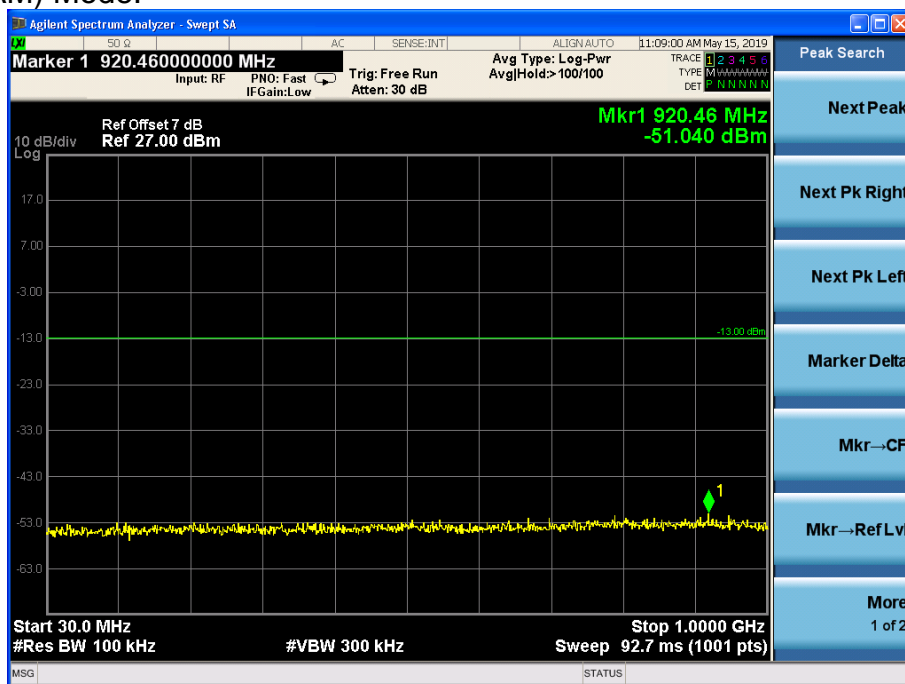
Channel 9400, 30MHz~1GHz



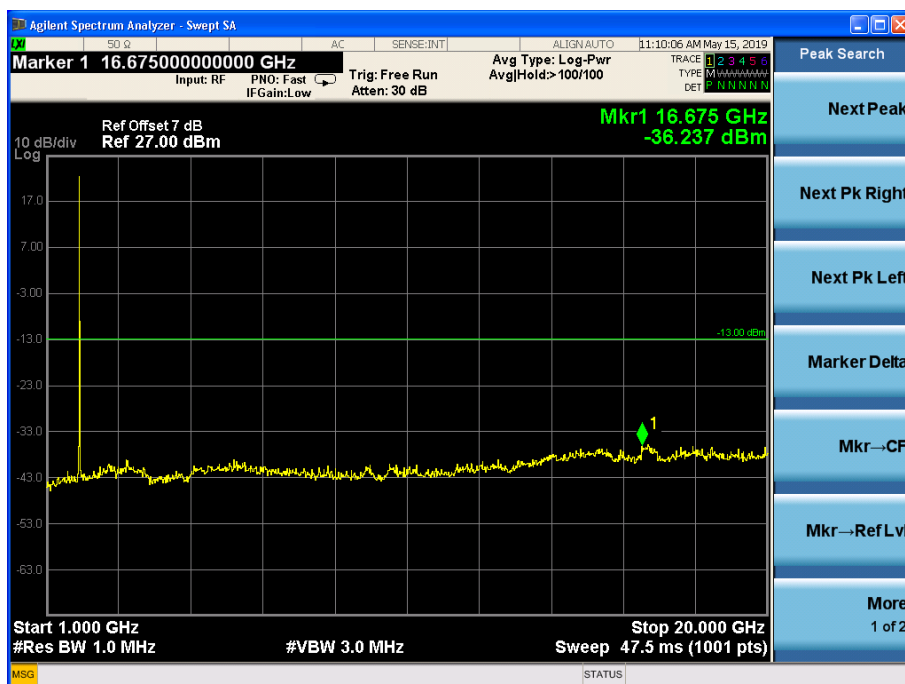
Channel 9400, 1GHz~20GHz

Note: The signal beyond the limit is the signal transmitted by EUT.

HSPA+(16QAM) Mode:



Channel 9400, 30MHz~1GHz

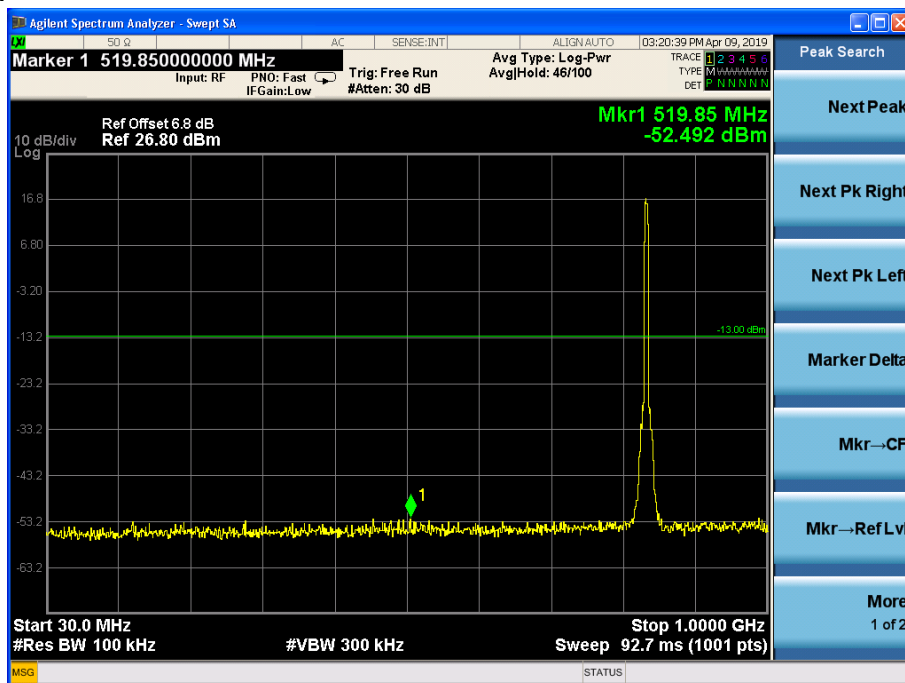


Channel 9400, 1GHz~20GHz

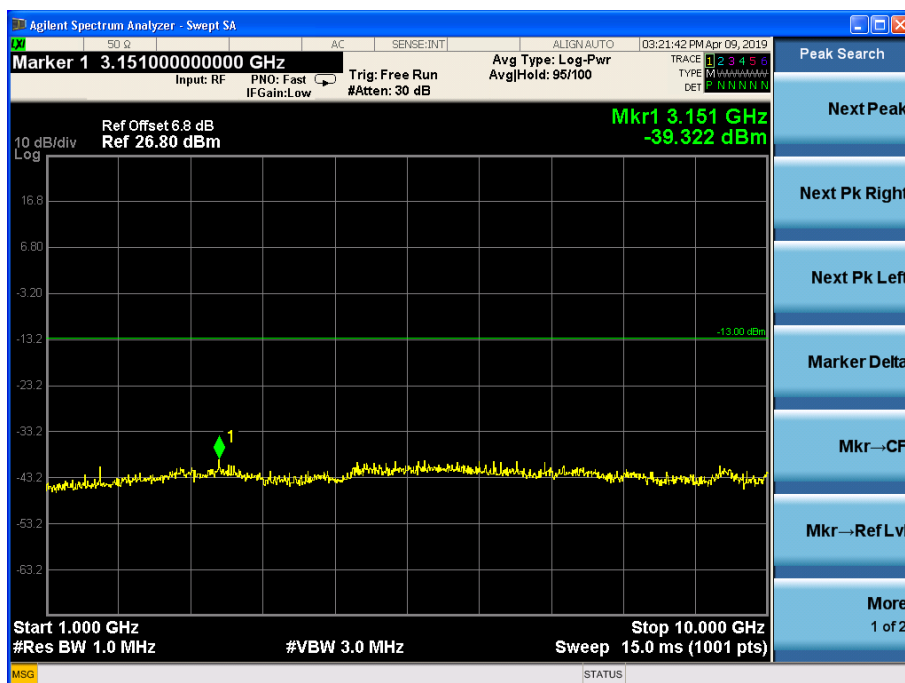
Note: The signal beyond the limit is the signal transmitted by EUT.

WCDMA band V

REL99 Mode:



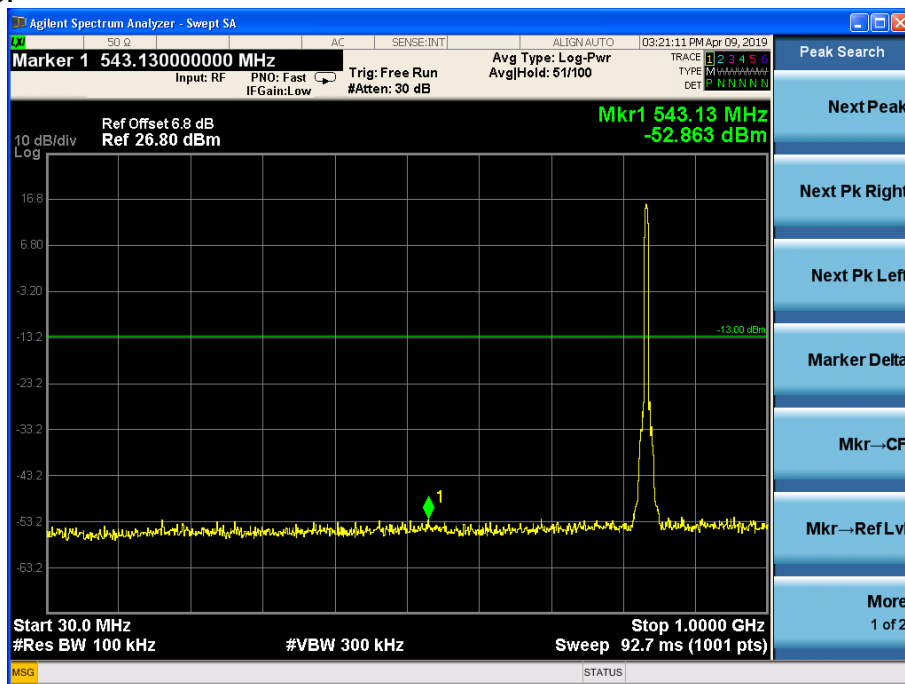
Channel 4183, 30MHz~1GHz



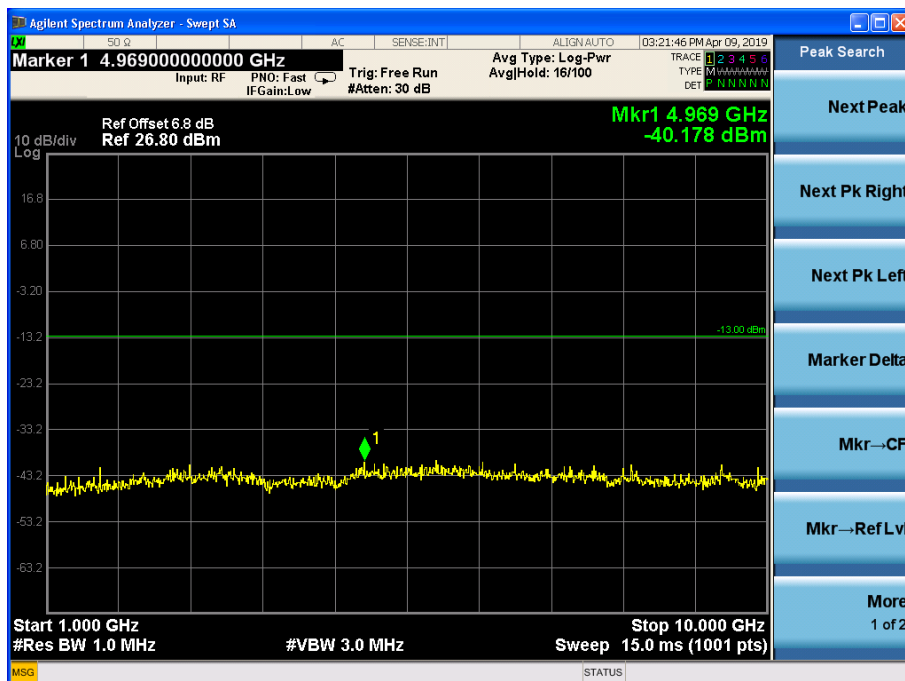
Channel 4183, 1GHz~10GHz

Note: The signal beyond the limit is the signal transmitted by EUT.

HSDPA Mode:



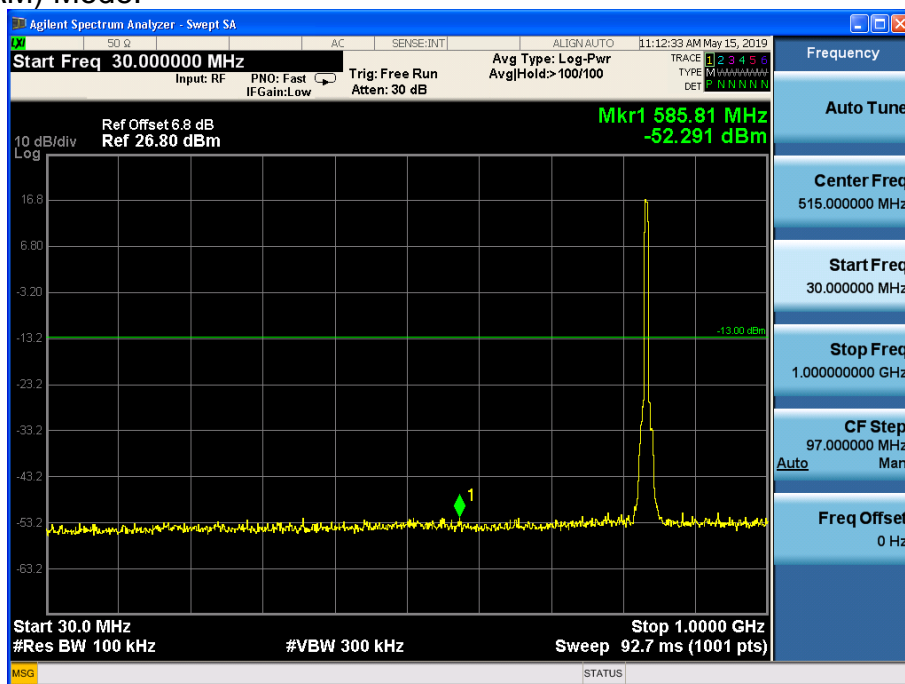
Channel 4183, 30MHz~1GHz



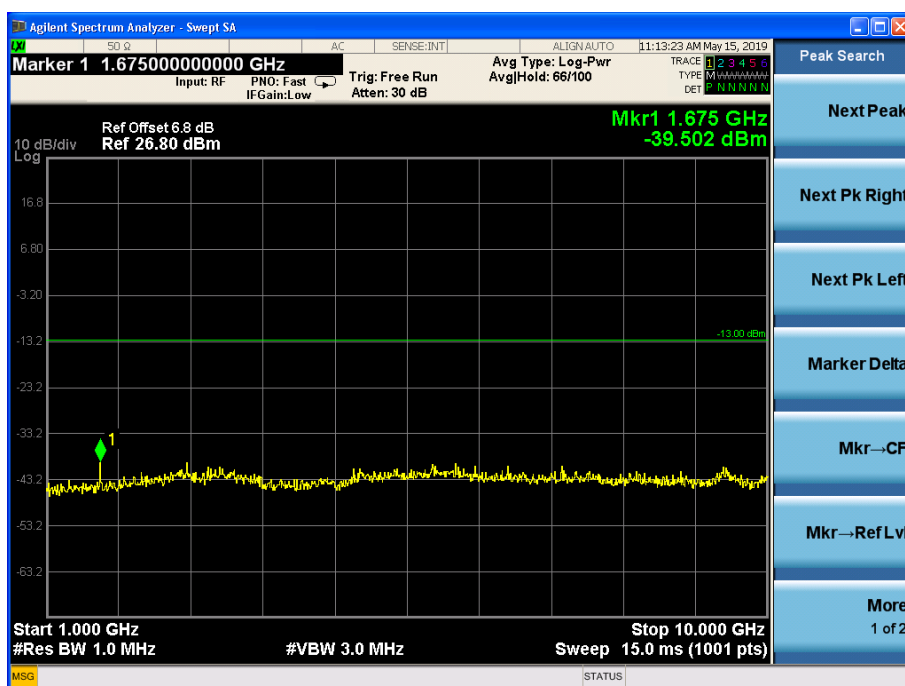
Channel 4183, 1GHz~10GHz

Note: The signal beyond the limit is the signal transmitted by EUT.

HSPA+(16QAM) Mode:



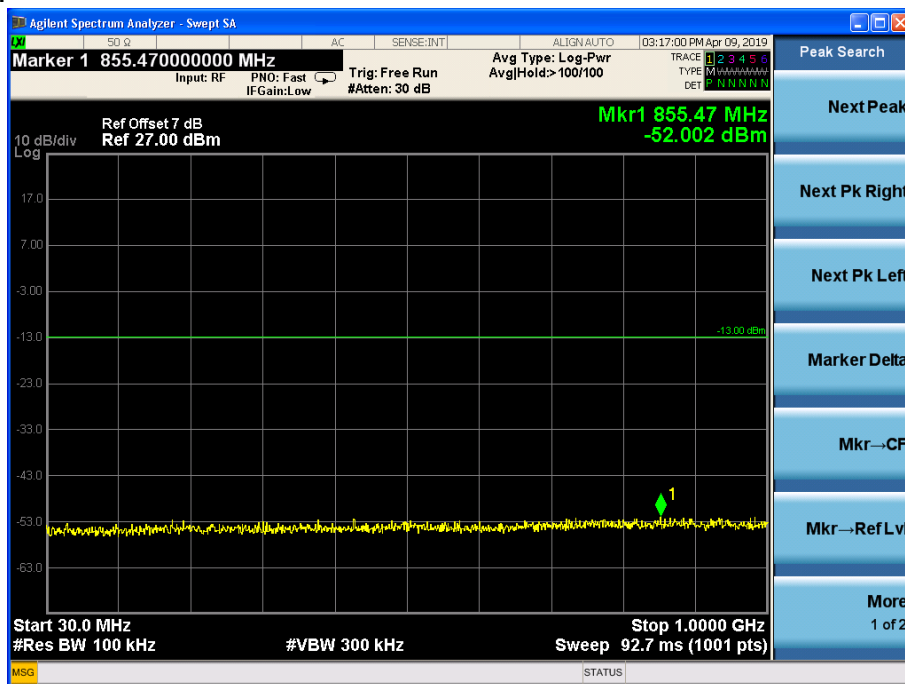
Channel 4183, 30MHz~1GHz



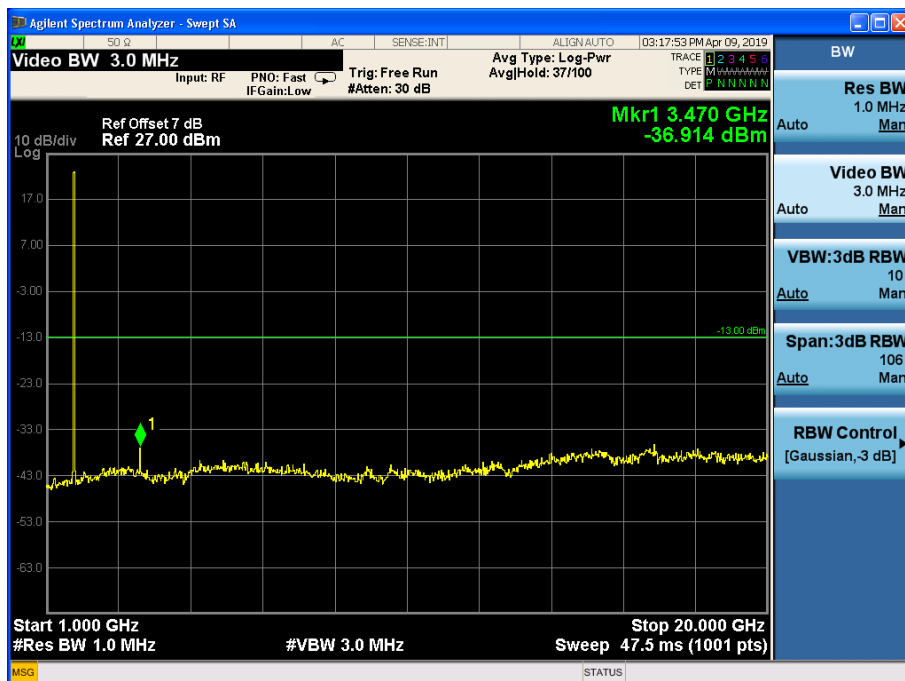
Channel 4183, 1GHz~10GHz

Note: The signal beyond the limit is the signal transmitted by EUT.

WCDMA band IV
REL99 Mode:



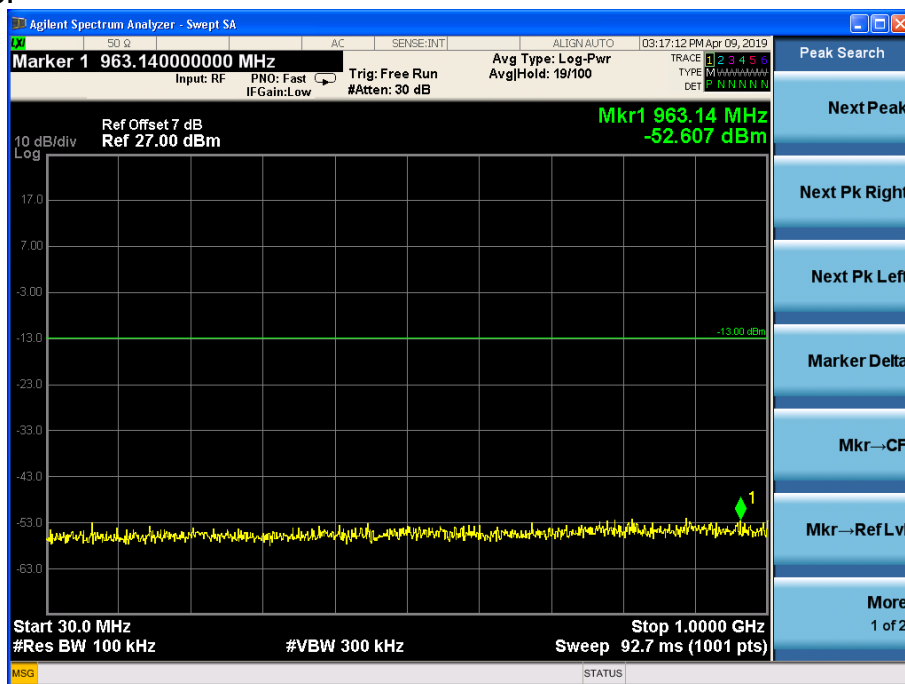
Channel 1412, 30MHz~1GHz



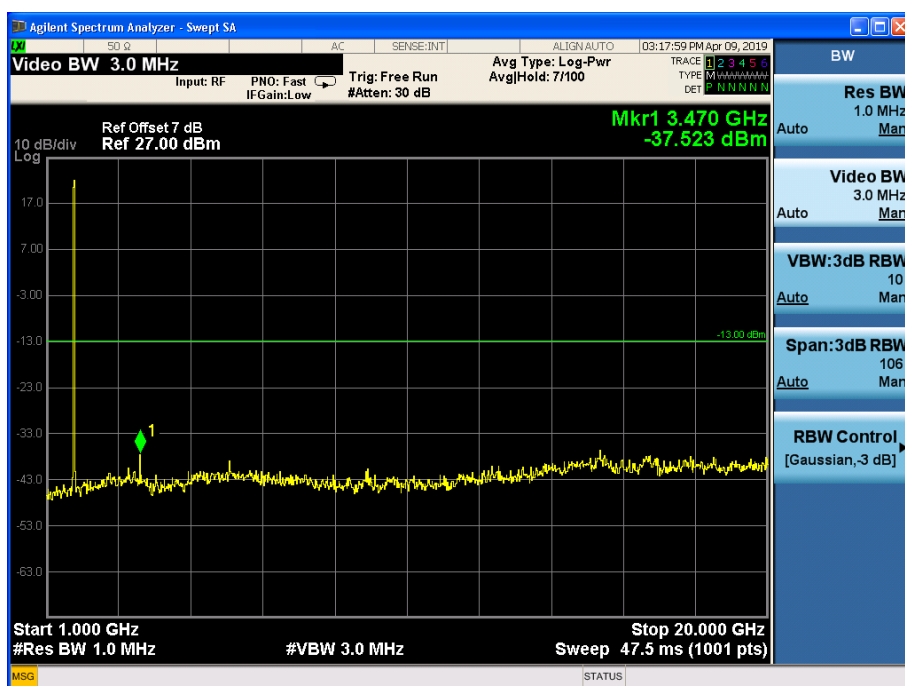
Channel 1412, 1GHz~20GHz

Note: The signal beyond the limit is the signal transmitted by EUT.

HSDPA Mode:



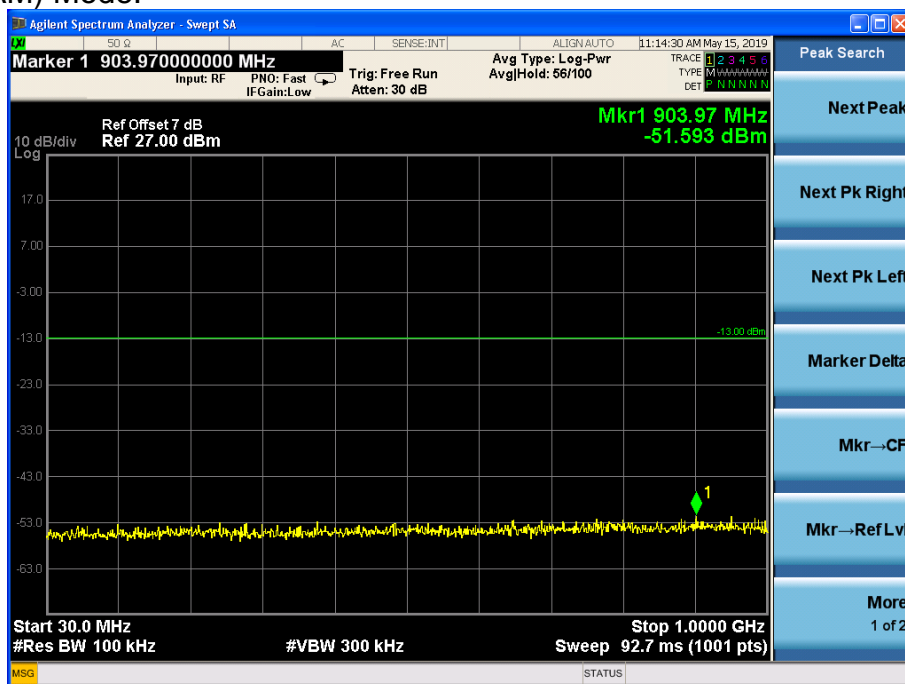
Channel 1412, 30MHz~1GHz



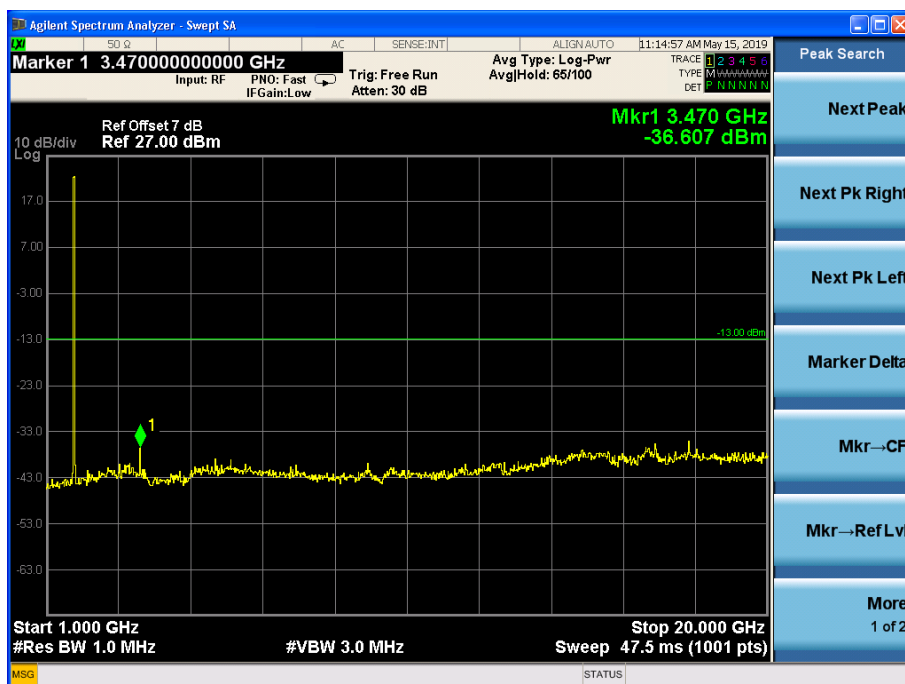
Channel 1412, 1GHz~20GHz

Note: The signal beyond the limit is the signal transmitted by EUT.

HSPA+(16QAM) Mode:



Channel 1412, 30MHz~1GHz



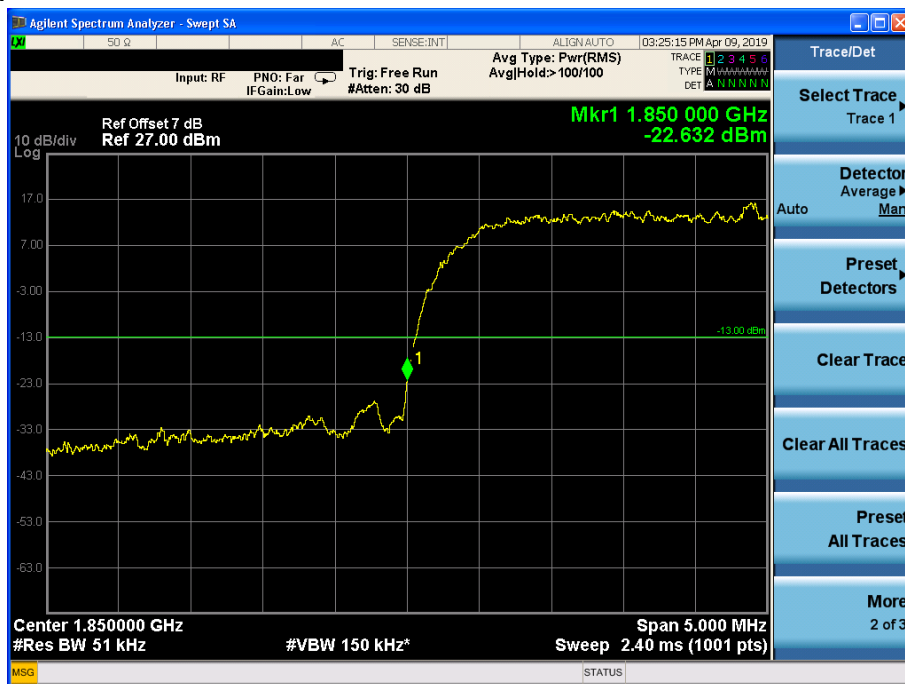
Channel 1412, 1GHz~20GHz

Note: The signal beyond the limit is the signal transmitted by EUT.

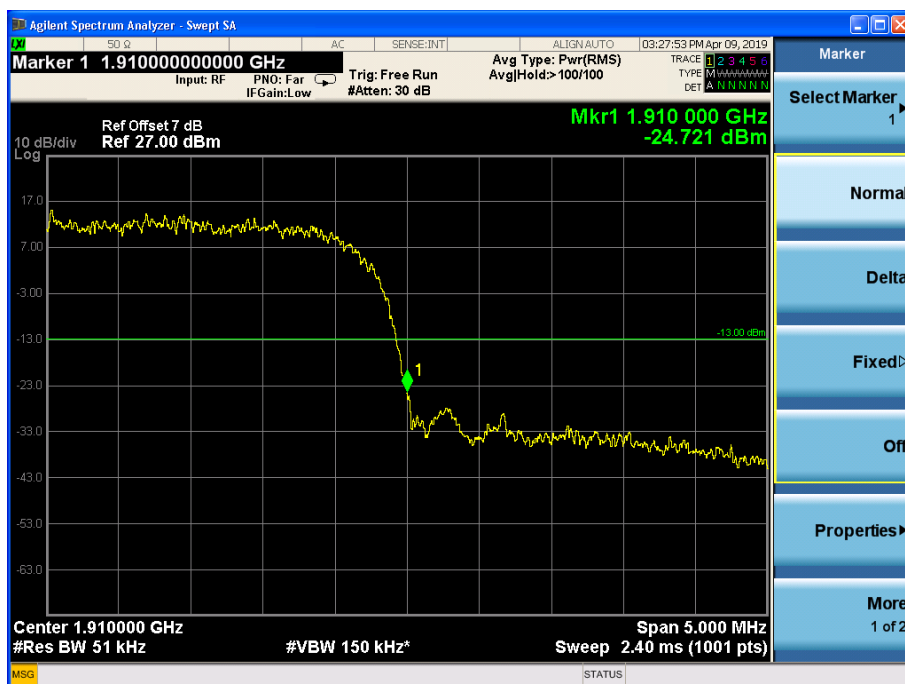
Band Edges Compliance-FCC 22.917(b)/24.238(b)/ 27.53(h)

WCDMA band II

REL99 Mode:

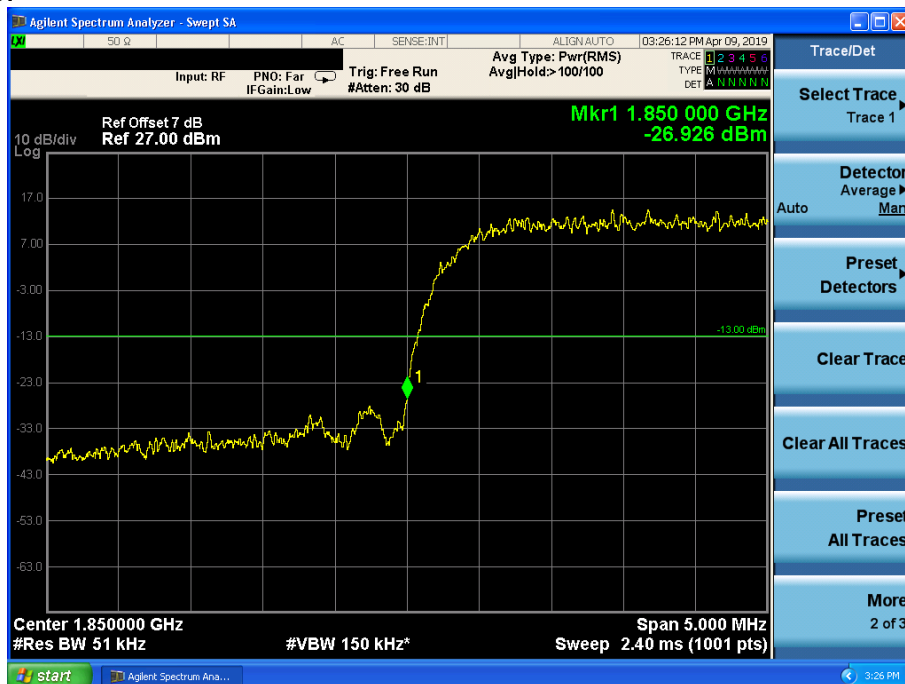


Channel 9262

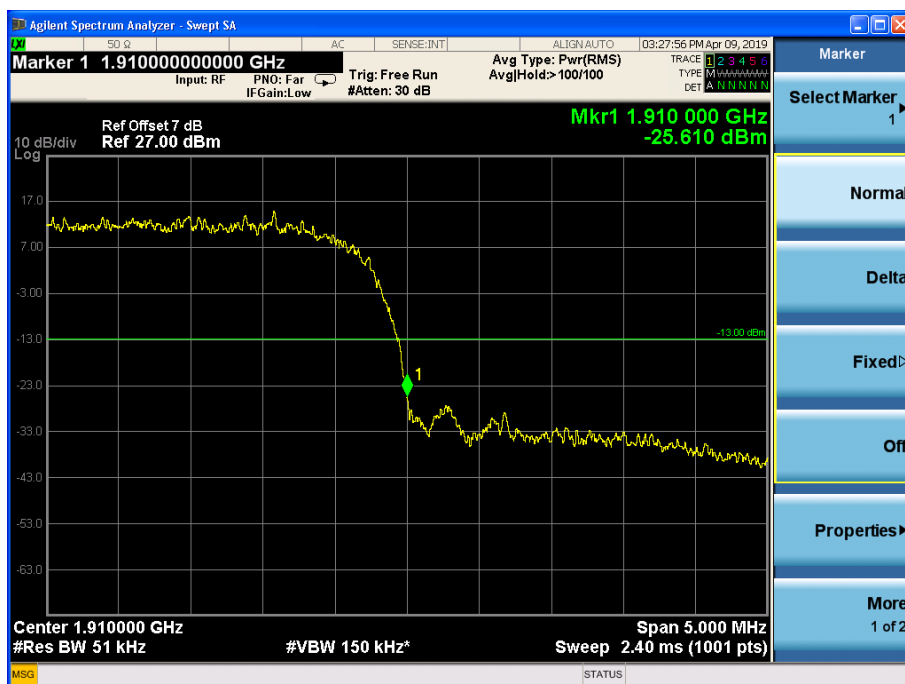


Channel 9538

HSDPA Mode:

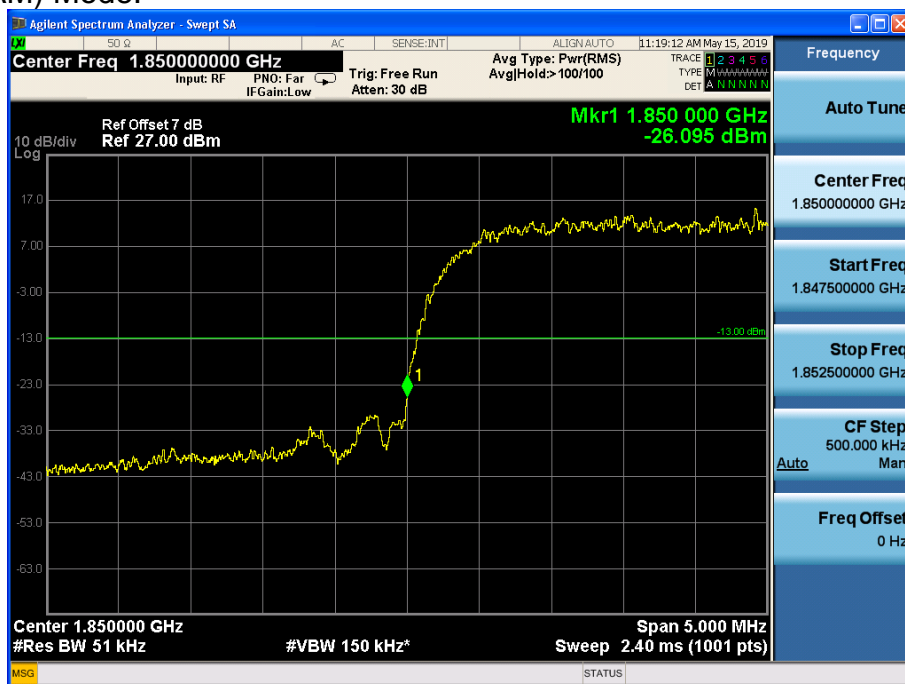


Channel 9262

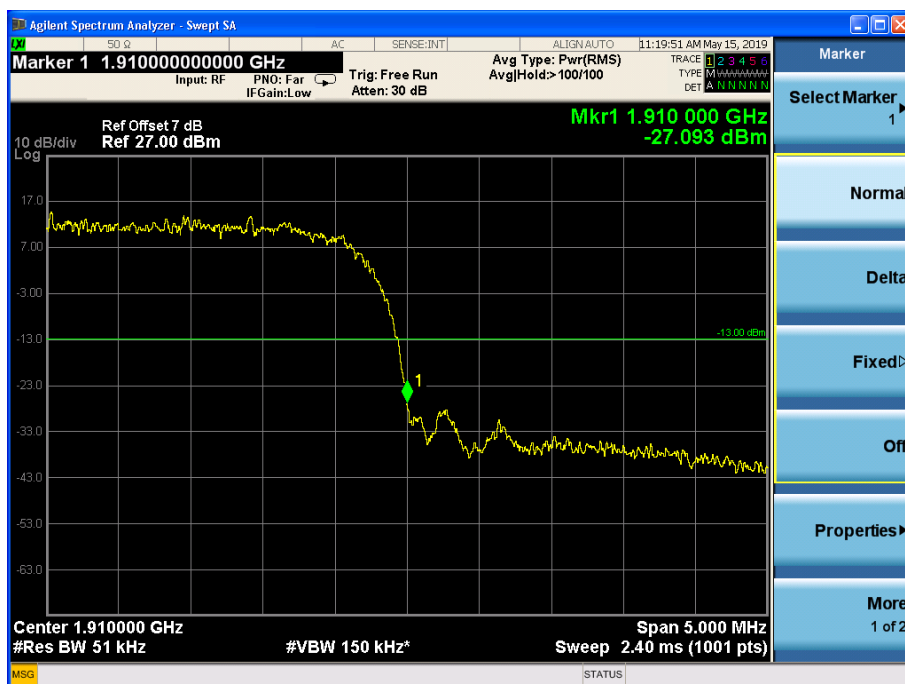


Channel 9538

HSPA+(16QAM) Mode:



Channel 1412, 30MHz~1GHz

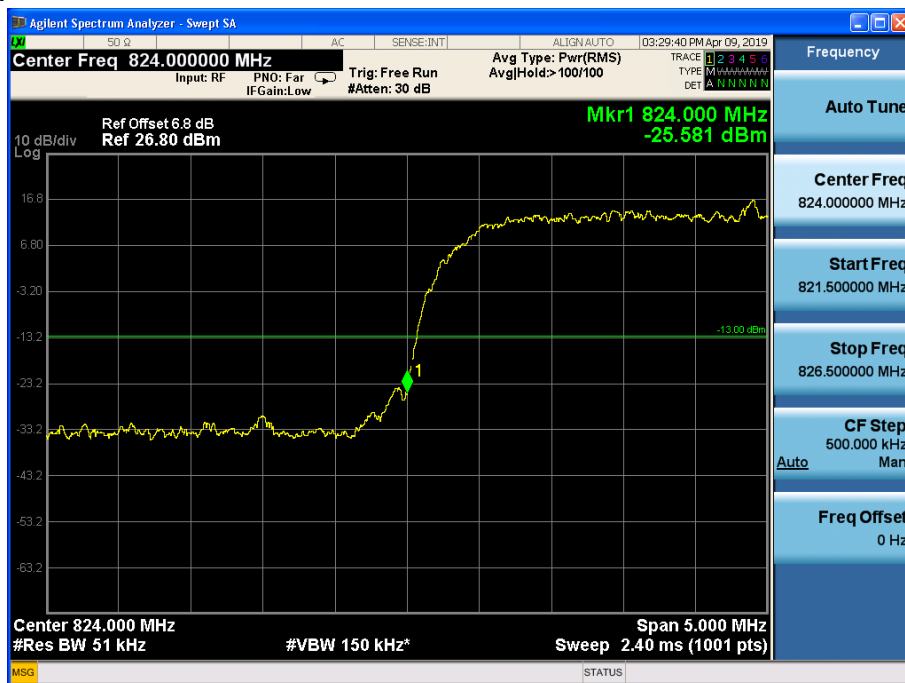


Channel 1412, 1GHz~20GHz

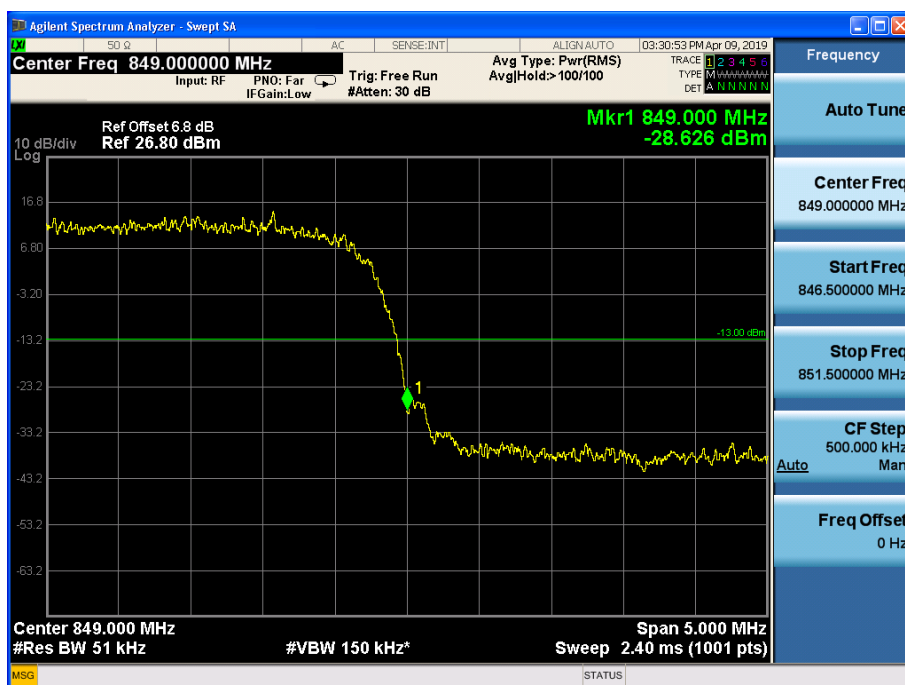
Note: The signal beyond the limit is the signal transmitted by EUT.

WCDMA band V

REL99 Mode:

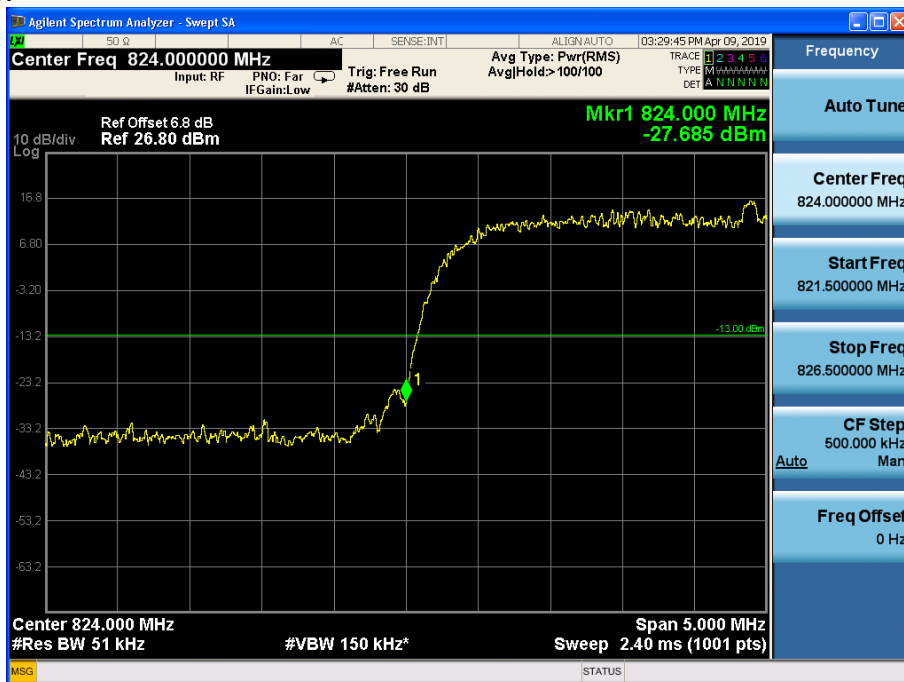


Channel 4132

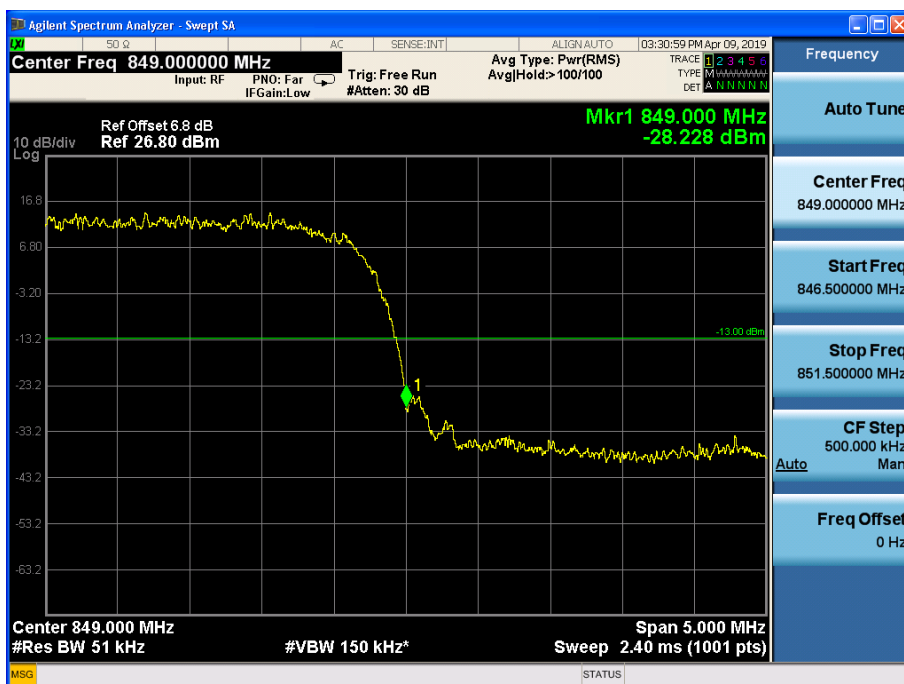


Channel 4233

HSDPA Mode:

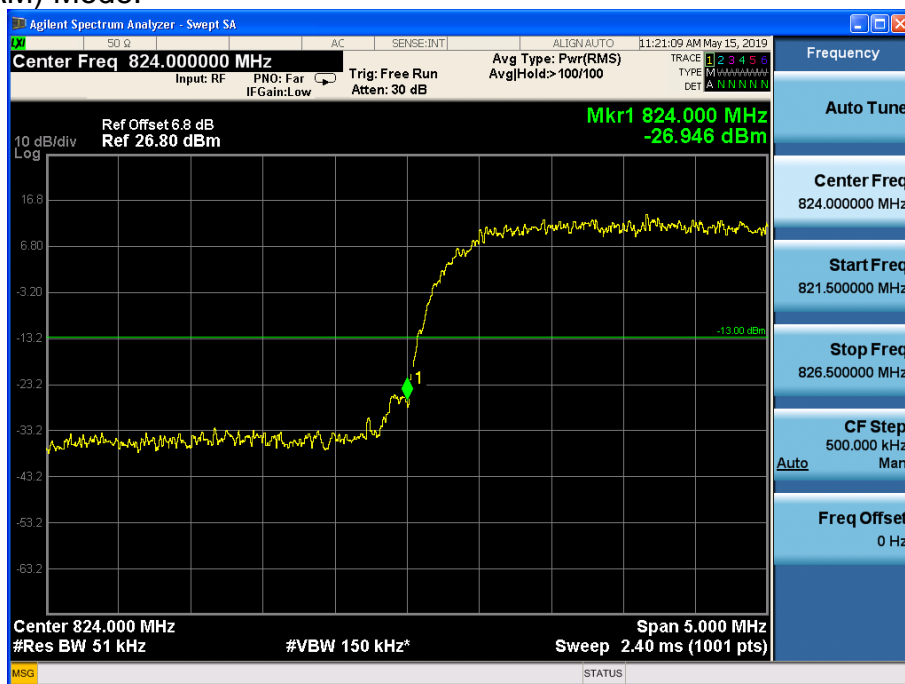


Channel 4132

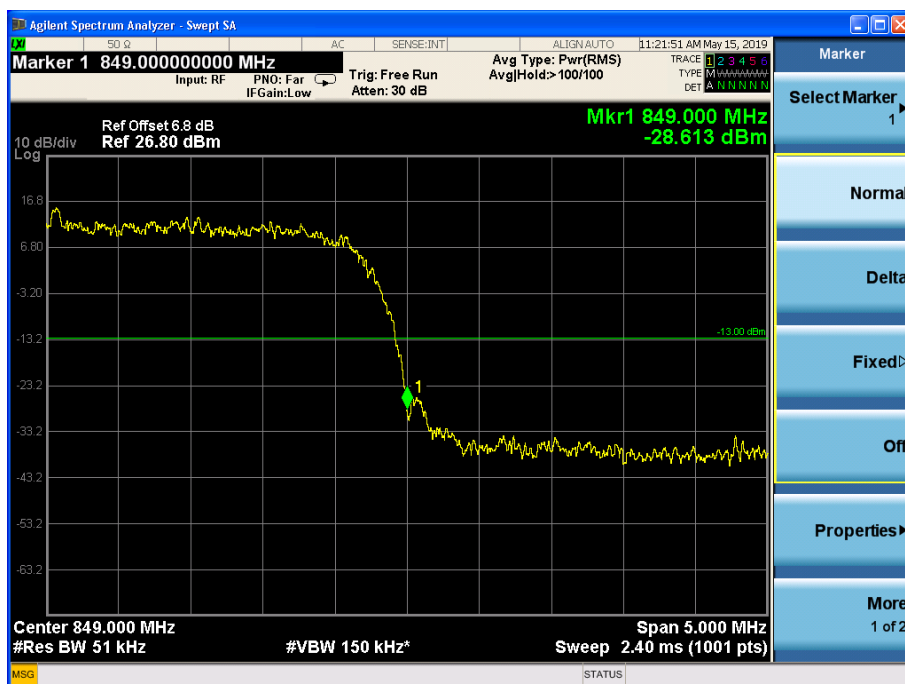


Channel 4233

HSPA+(16QAM) Mode:



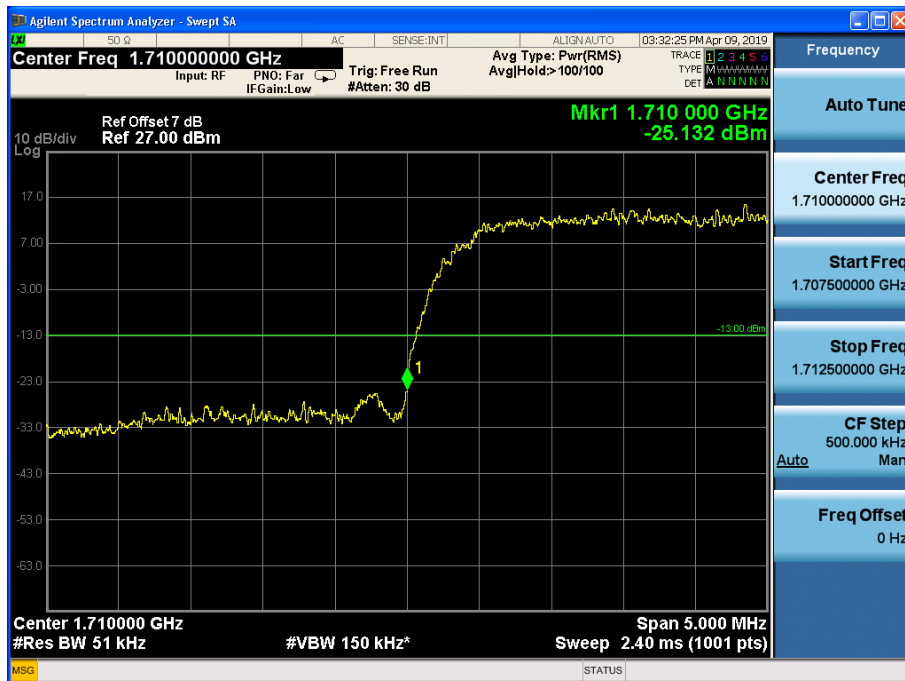
Channel 9262



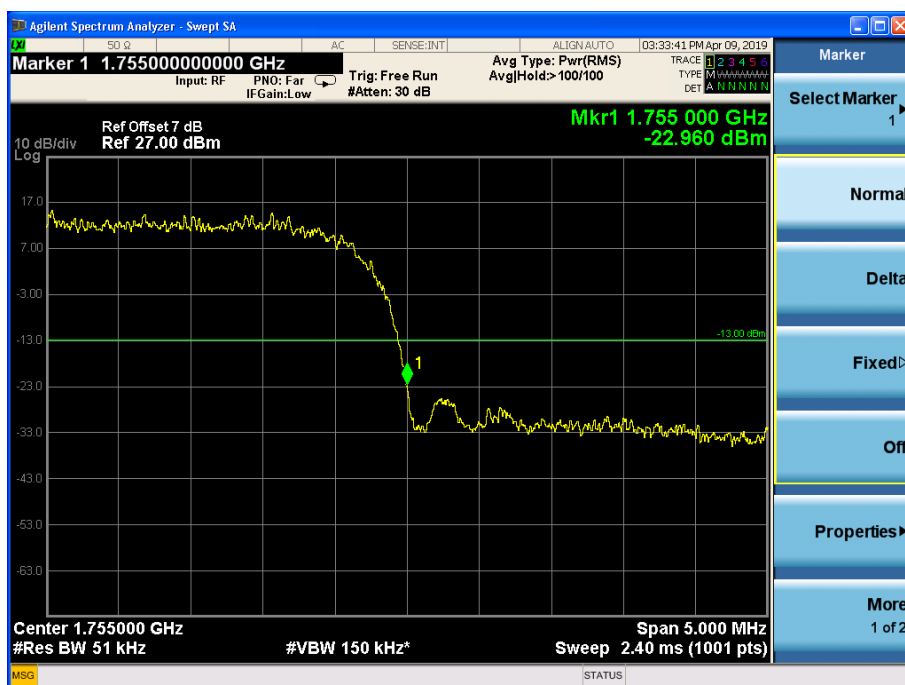
Channel 9538

WCDMA band IV

REL99 Mode:

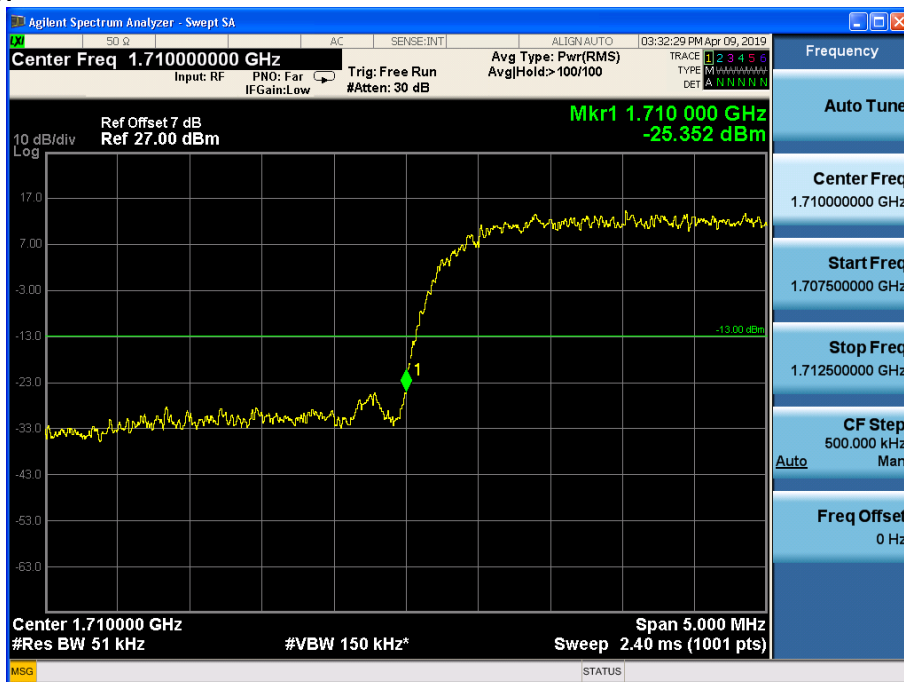


Channel 1312

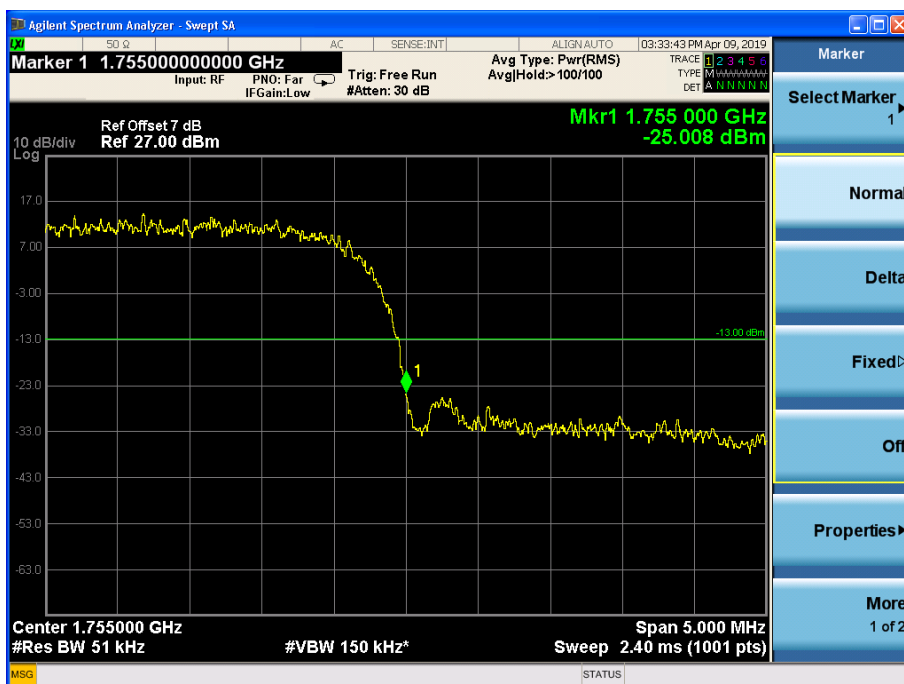


Channel 1513

HSDPA Mode:

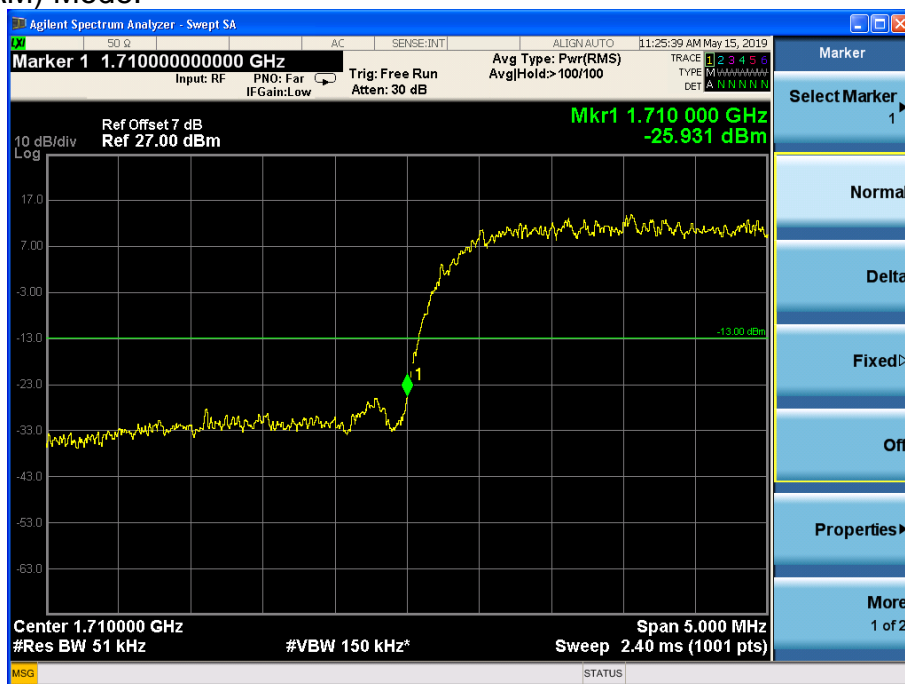


Channel 1312

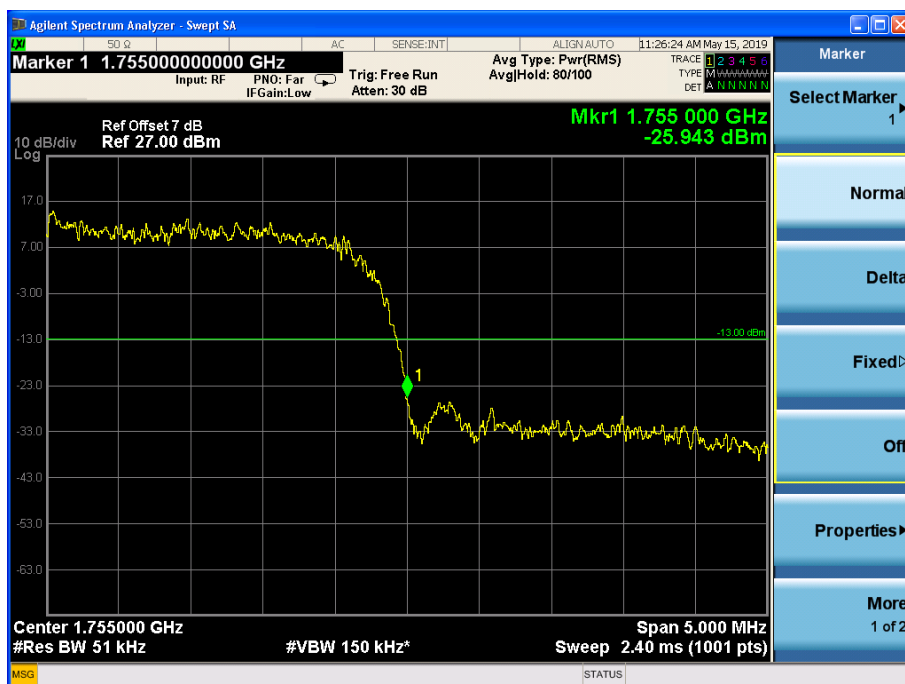


Channel 1513

HSPA+(16QAM) Mode:



Channel 1312



Channel 1513

Frequency Stability-FCC Part2.1055/22.355/24.235/27.54

WCDMA band II
REL99 Mode:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 9262	Channel 9400	Channel 9538
0	-0.007	0.023	-0.009
+10	-0.017	0.012	-0.002
+20	0.018	0.003	-0.011
+30	-0.011	0.002	-0.012
+40	0.020	0.010	0.014
+50	-0.019	0.008	0.003
+55	0.021	0.008	-0.002
Voltage	Test Result (ppm)@NT		
	Channel 9262	Channel 9400	Channel 9538
LV	0.013	0.005	0.003
HV	0.003	-0.011	0.012

HSDPA Mode:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 9262	Channel 9400	Channel 9538
0	0.016	-0.001	0.015
+10	0.021	-0.002	0.008
+20	-0.015	0.013	-0.008
+30	0.006	-0.010	0.007
+40	-0.003	0.006	0.003
+50	-0.022	0.011	-0.007
+55	-0.011	0.013	0.015
Voltage	Test Result (ppm)NT		
	Channel 9262	Channel 9400	Channel 9538
LV	0.011	-0.014	0.014
HV	0.002	0.013	0.004

HSPA+(16QAM) Mode:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 9262	Channel 9400	Channel 9538
0	0.013	-0.013	0.003
+10	0.022	-0.002	0.004
+20	0.015	0.015	-0.014
+30	0.021	-0.015	0.007
+40	0.011	0.013	0.011
+50	-0.013	-0.017	-0.018
+55	-0.009	-0.007	-0.014
Voltage	Test Result (ppm)NT		
	Channel 9262	Channel 9400	Channel 9538
LV	0.012	-0.004	0.017
HV	0.002	-0.001	0.010

**WCDMA band V
REL99 Mode:**

Temperature(°C)	Test Result (ppm)@NV		
	Channel 4132	Channel 4183	Channel 4233
0	-0.004	-0.001	-0.011
+10	-0.010	-0.010	-0.003
+20	-0.006	-0.009	-0.006
+30	0.013	0.012	0.009
+40	0.019	0.012	0.008
+50	0.008	0.008	0.004
+55	-0.007	-0.007	-0.013

Voltage	Test Result (ppm)@NT		
	Channel 4132	Channel 4183	Channel 4233
LV	-0.002	-0.006	-0.009
HV	0.006	0.010	0.001

HSDPA Mode:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 4132	Channel 4183	Channel 4233
0	-0.005	-0.006	-0.004
+10	-0.012	-0.006	-0.007
+20	-0.007	-0.002	0.006
+30	0.015	0.008	0.011
+40	0.004	0.006	0.012
+50	0.000	0.001	0.014
+55	-0.008	0.007	-0.004

Voltage	Test Result (ppm)@NT		
	Channel 4132	Channel 4183	Channel 4233
LV	0.012	-0.014	-0.008
HV	0.005	-0.009	-0.005

HSPA+(16QAM) Mode:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 4132	Channel 4183	Channel 4233
0	-0.011	-0.010	-0.010
+10	0.004	0.014	0.003
+20	0.000	-0.003	0.012
+30	-0.002	-0.002	0.011
+40	-0.004	-0.007	-0.012
+50	-0.014	0.006	-0.010
+55	0.011	0.004	0.008

Voltage	Test Result (ppm)@NT		
	Channel 4132	Channel 4183	Channel 4233
LV	0.010	0.004	-0.011
HV	-0.004	-0.013	-0.008

WCDMA band IV

REL99 Mode:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 1312	Channel 1412	Channel 1513
0	-0.005	-0.005	0.010
+10	-0.010	-0.001	0.009
+20	0.013	0.012	0.012
+30	-0.013	0.014	-0.007
+40	-0.003	0.010	0.003
+50	0.013	0.025	-0.011
+55	0.011	-0.012	-0.013

Voltage	Test Result (ppm)@NT		
	Channel 1312	Channel 1412	Channel 1513
LV	-0.001	0.007	-0.013
HV	-0.010	0.001	-0.003

HSDPA Mode:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 1312	Channel 1412	Channel 1513
0	0.011	0.000	-0.002
+10	0.014	-0.009	-0.006
+20	0.010	-0.003	-0.014
+30	0.013	-0.003	0.008
+40	-0.010	-0.002	0.011
+50	-0.015	0.010	-0.003
+55	0.025	0.008	-0.015

Voltage	Test Result (ppm)@NT		
	Channel 1312	Channel 1412	Channel 1513
LV	0.009	-0.003	-0.007
HV	-0.005	-0.011	-0.014

HSPA+(16QAM) Mode:

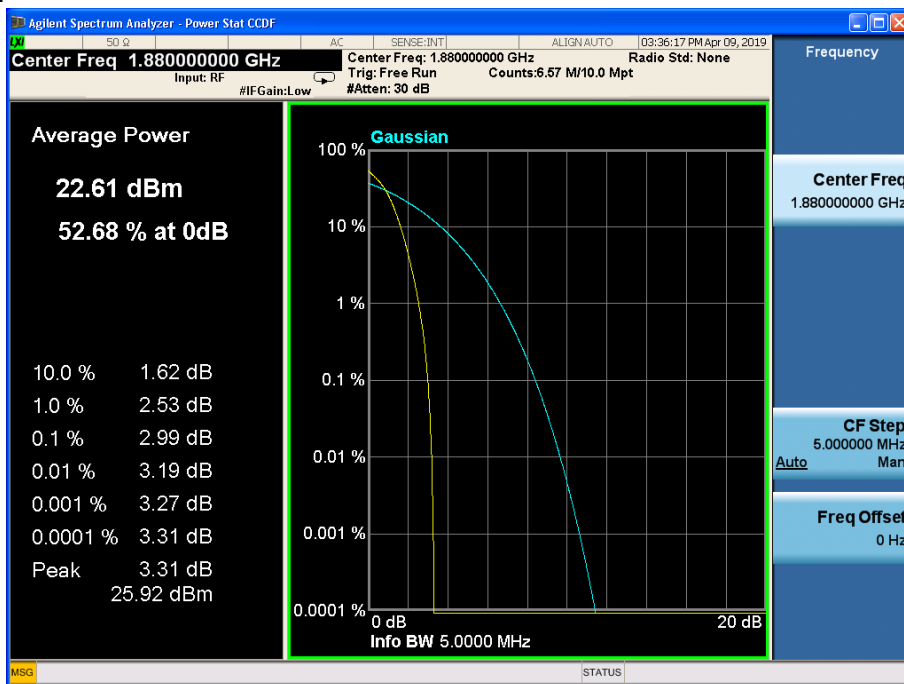
Temperature(°C)	Test Result (ppm)@NV		
	Channel 1312	Channel 1412	Channel 1513
0	0.010	0.003	-0.004
+10	0.008	-0.011	0.006
+20	-0.002	0.009	0.018
+30	0.015	-0.013	0.002
+40	0.007	0.005	-0.011
+50	-0.004	0.014	0.008
+55	-0.003	0.010	-0.002

Voltage	Test Result (ppm)@NT		
	Channel 1312	Channel 1412	Channel 1513
LV	0.001	-0.009	-0.008
HV	-0.013	0.011	-0.005

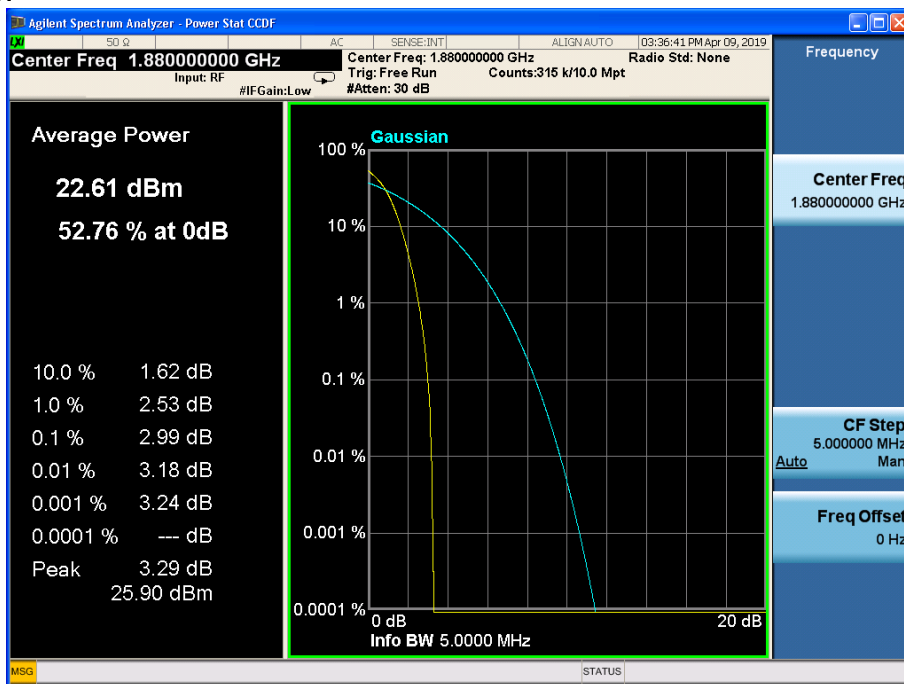
Peak-Average Ratio -FCC Part 24.232(d)/ 27.50(d)(5)

WCDMA band II

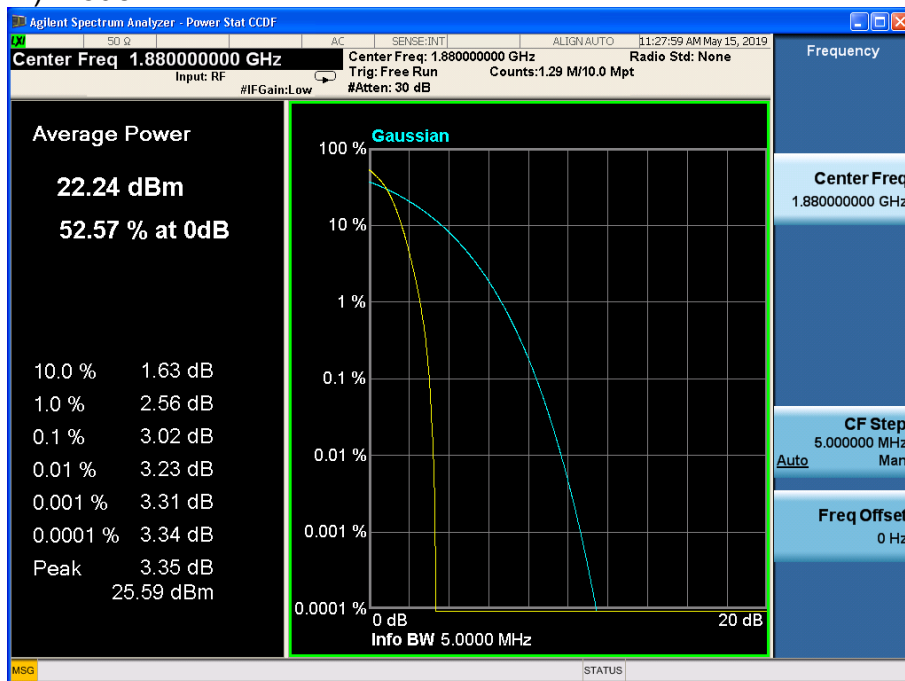
REL99 Mode:



HSDPA Mode:

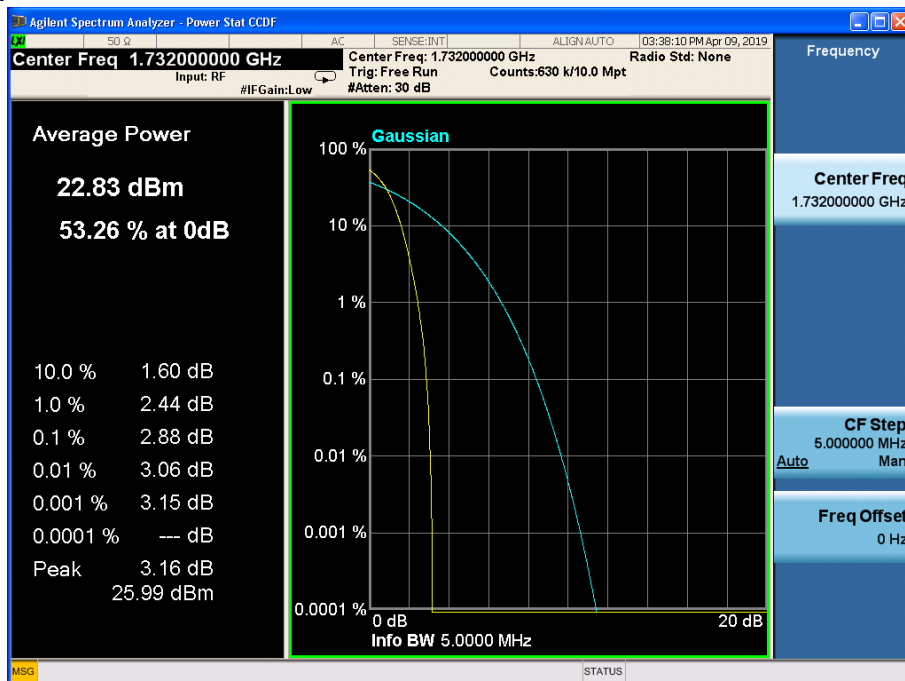


HSPA+(16QAM) Mode:

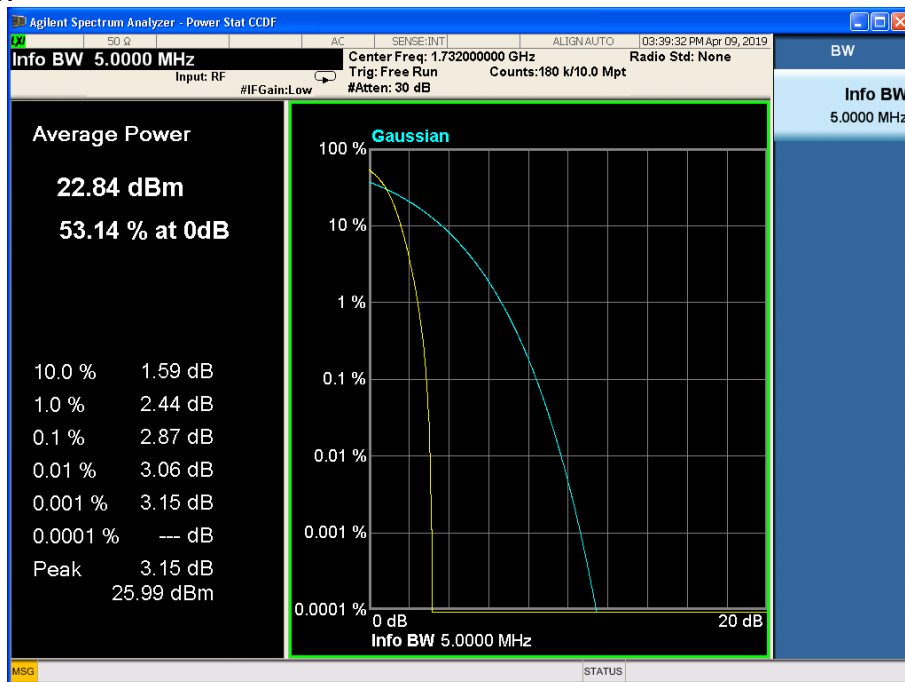


WCDMA band IV

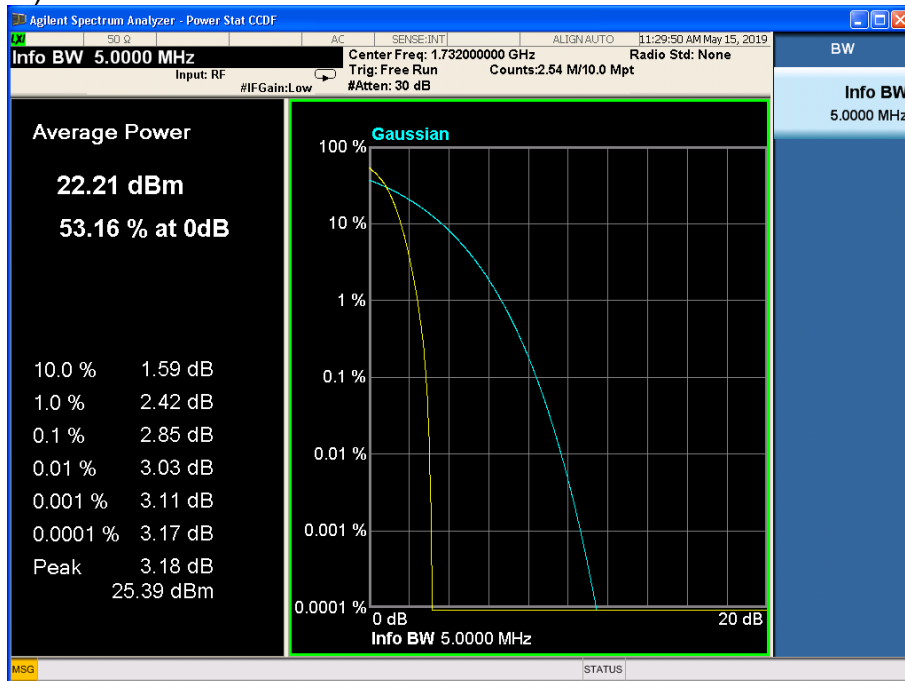
REL99 Mode:



HSDPA Mode:

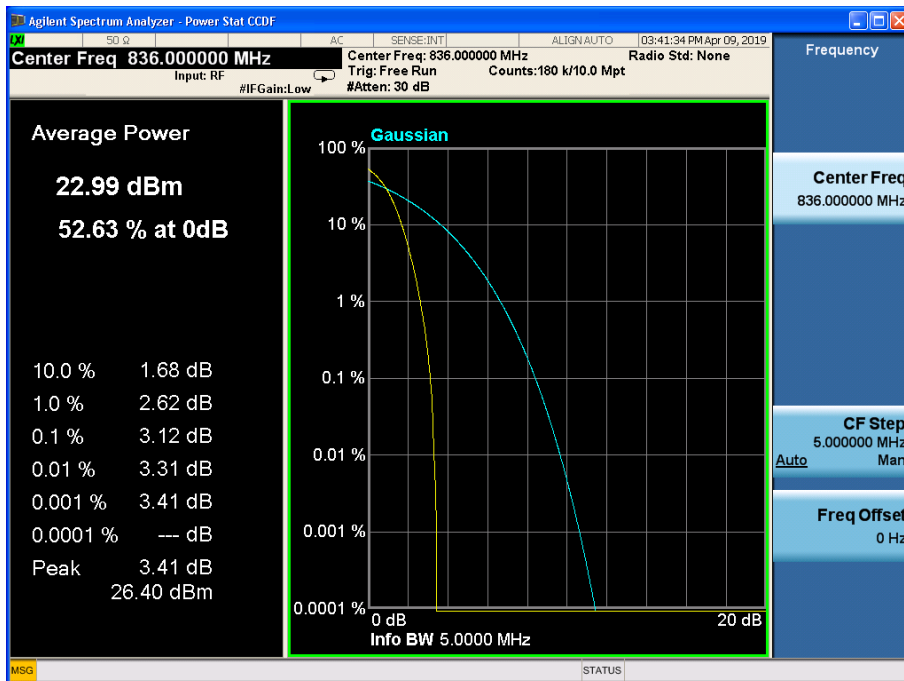


HSPA+(16QAM) Mode:

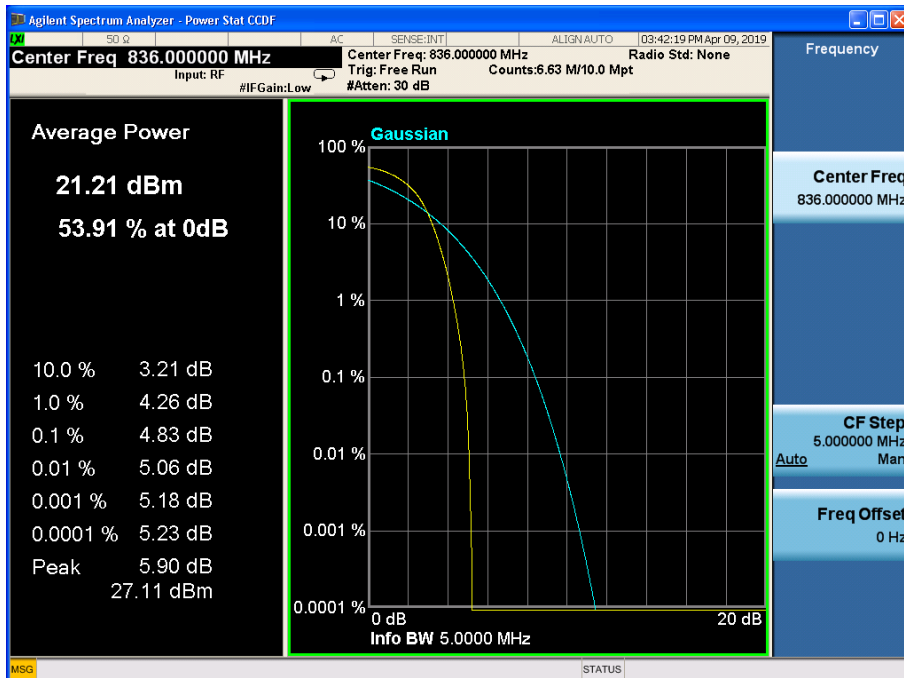


WCDMA band V

REL99 Mode:



HSDPA Mode:



HSPA+(16QAM) Mode:

