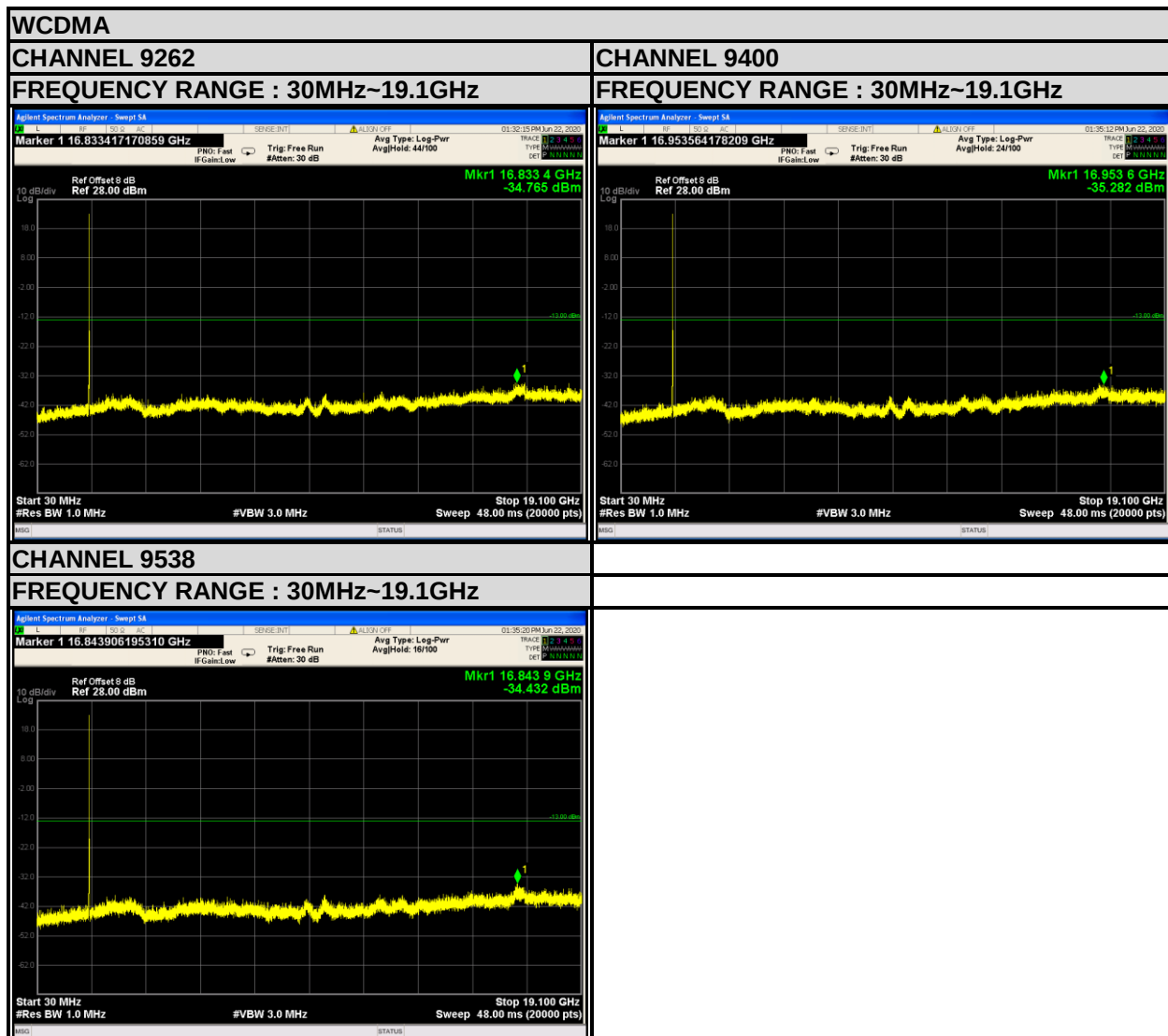




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Test Report No.: RF200512S004-5



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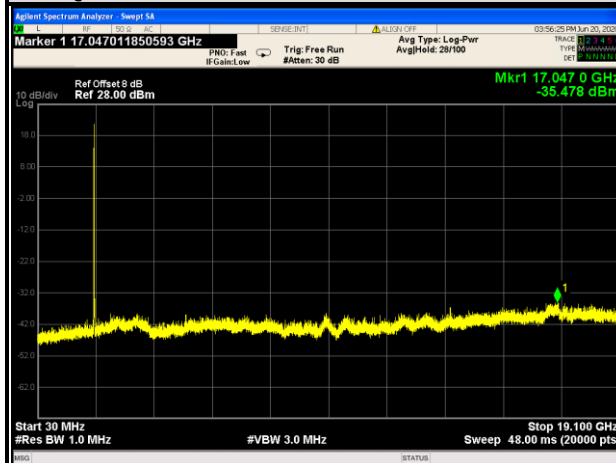
Test Report No.: RF200512S004-5

LTE BAND 2

1.4MHz / QPSK

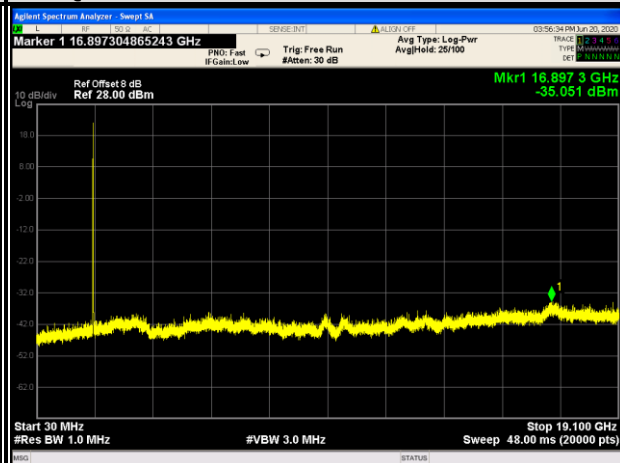
CHANNEL 18607

FREQUENCY RANGE : 30MHz~19.1GHz



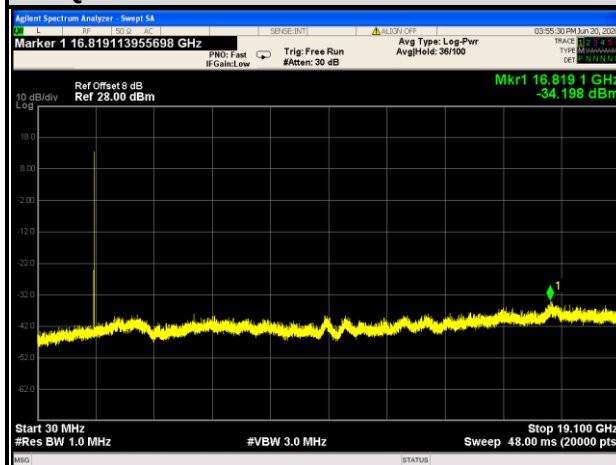
CHANNEL 18900

FREQUENCY RANGE : 30MHz~19.1GHz



CHANNEL 19193

FREQUENCY RANGE : 30MHz~19.1GHz





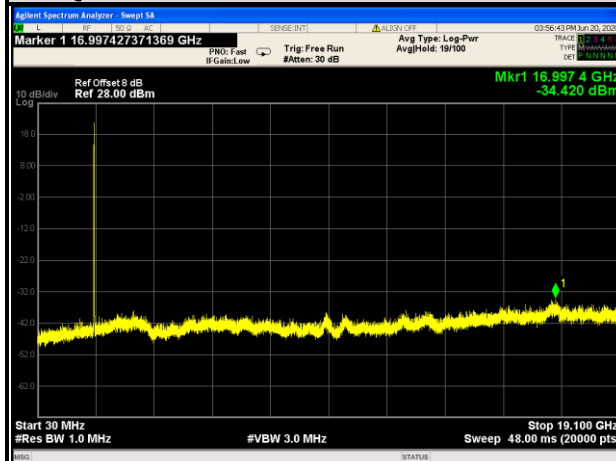
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Test Report No.: RF200512S004-5

3MHz / QPSK

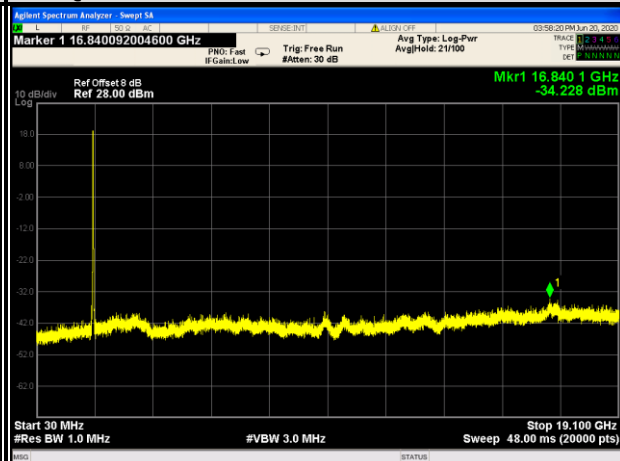
CHANNEL 18615

FREQUENCY RANGE : 30MHz~19.1GHz



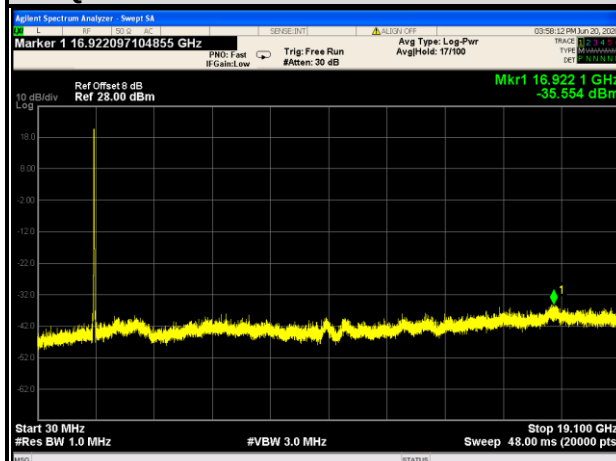
CHANNEL 18900

FREQUENCY RANGE : 30MHz~19.1GHz



CHANNEL 19185

FREQUENCY RANGE : 30MHz~19.1GHz



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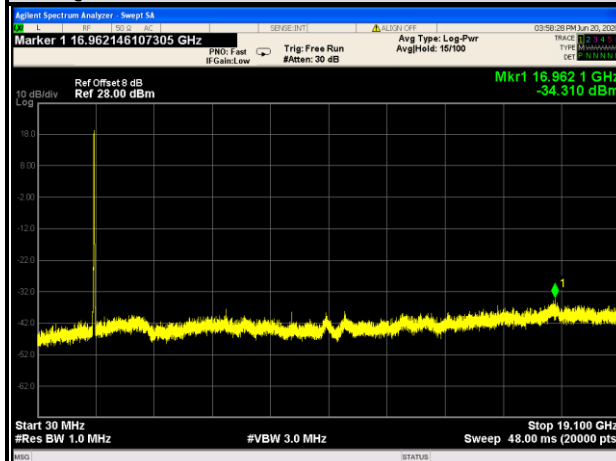
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Test Report No.: RF200512S004-5

5MHz / QPSK

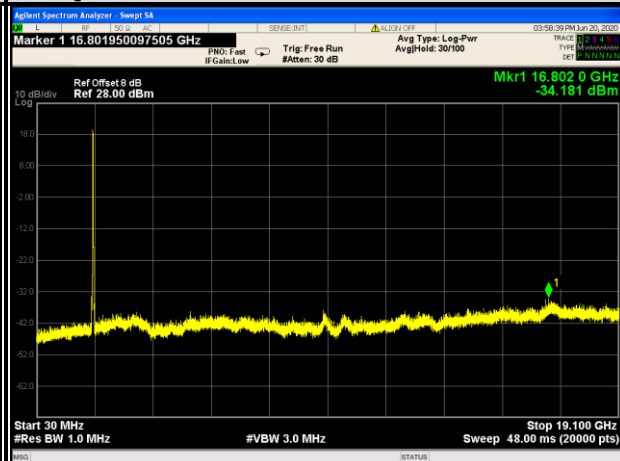
CHANNEL 18625

FREQUENCY RANGE : 30MHz~19.1GHz



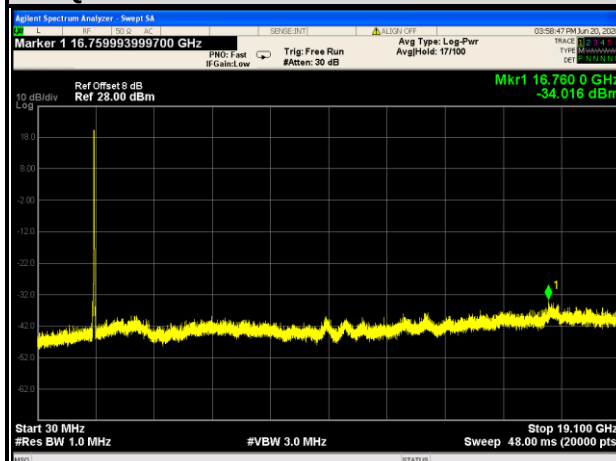
CHANNEL 18900

FREQUENCY RANGE : 30MHz~19.1GHz



CHANNEL 19175

FREQUENCY RANGE : 30MHz~19.1GHz



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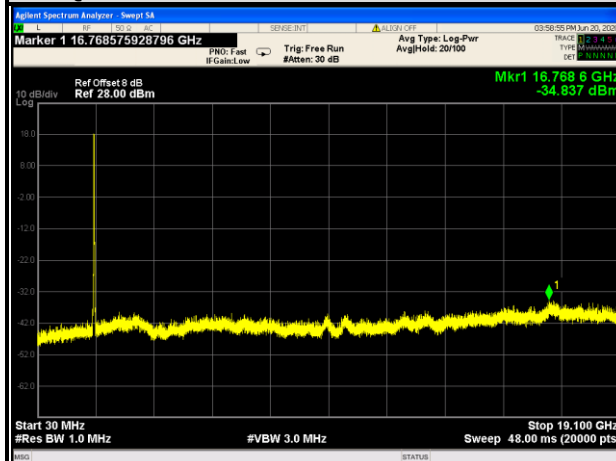
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Test Report No.: RF200512S004-5

10MHz / QPSK

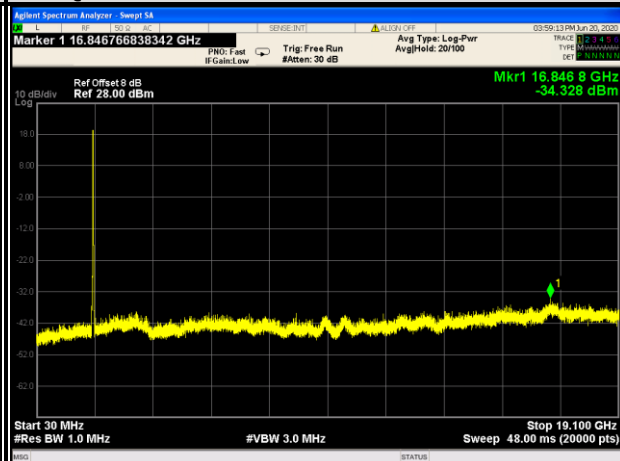
CHANNEL 18650

FREQUENCY RANGE : 30MHz~19.1GHz



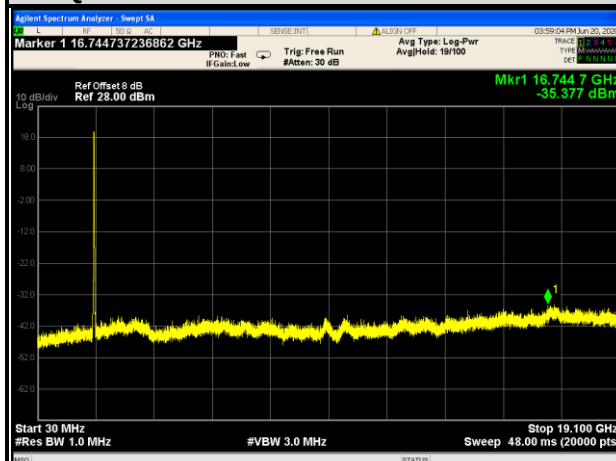
CHANNEL 18900

FREQUENCY RANGE : 30MHz~19.1GHz



CHANNEL 19150

FREQUENCY RANGE : 30MHz~19.1GHz



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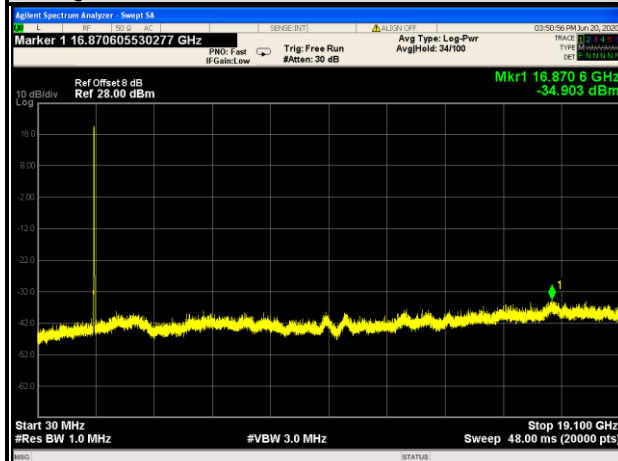
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Test Report No.: RF200512S004-5

15MHz / QPSK

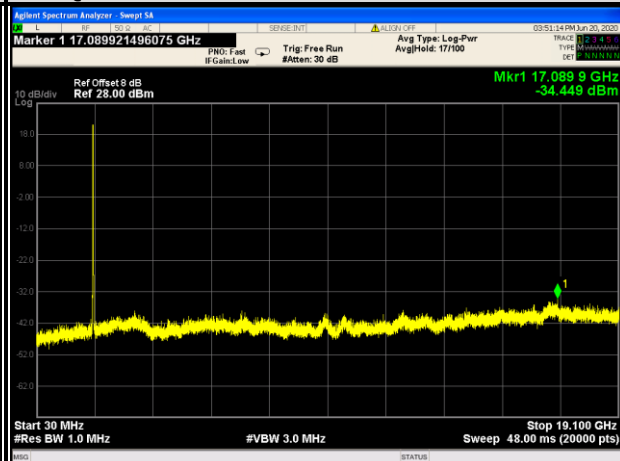
CHANNEL 18675

FREQUENCY RANGE : 30MHz~19.1GHz



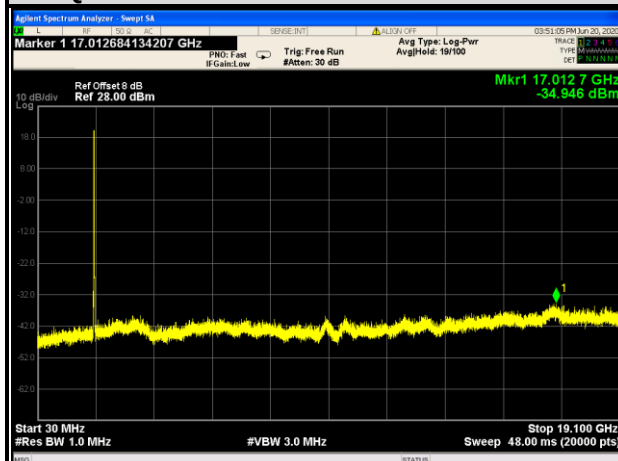
CHANNEL 18900

FREQUENCY RANGE : 30MHz~19.1GHz



CHANNEL 19125

FREQUENCY RANGE : 30MHz~19.1GHz



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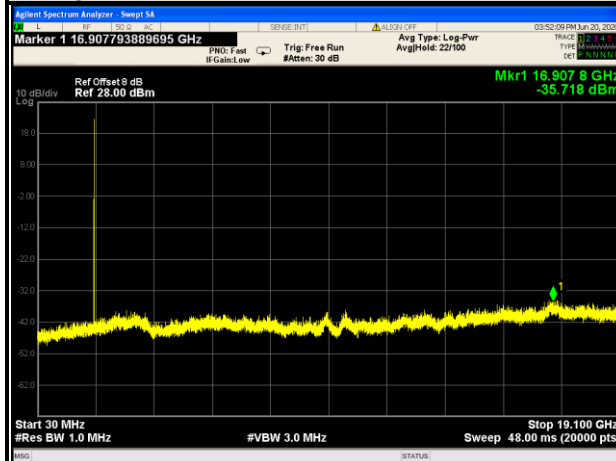
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Test Report No.: RF200512S004-5

20MHz / QPSK

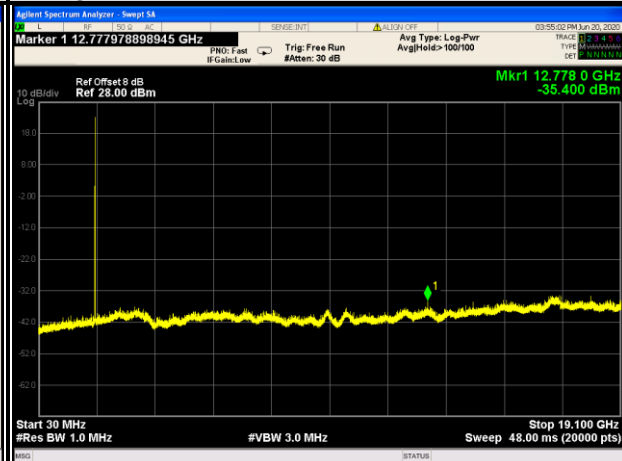
CHANNEL 18700

FREQUENCY RANGE : 30MHz~19.1GHz



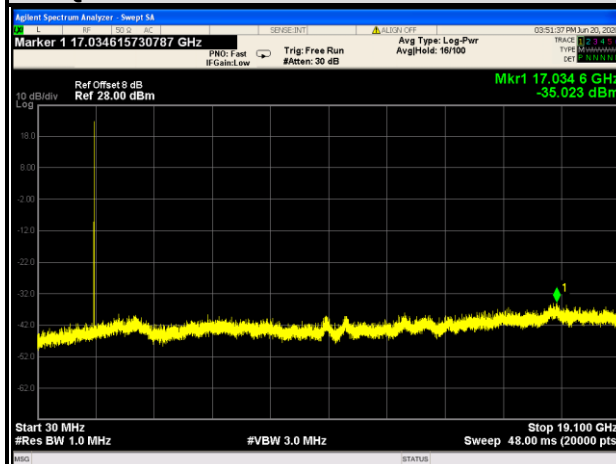
CHANNEL 18900

FREQUENCY RANGE : 30MHz~19.1GHz



CHANNEL 19100

FREQUENCY RANGE : 30MHz~19.1GHz



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3.6 RADIATED EMISSION MEASUREMENT

3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

3.6.2 TEST PROCEDURES

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value " of step a. Record the power level of S.G
- c. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$

NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

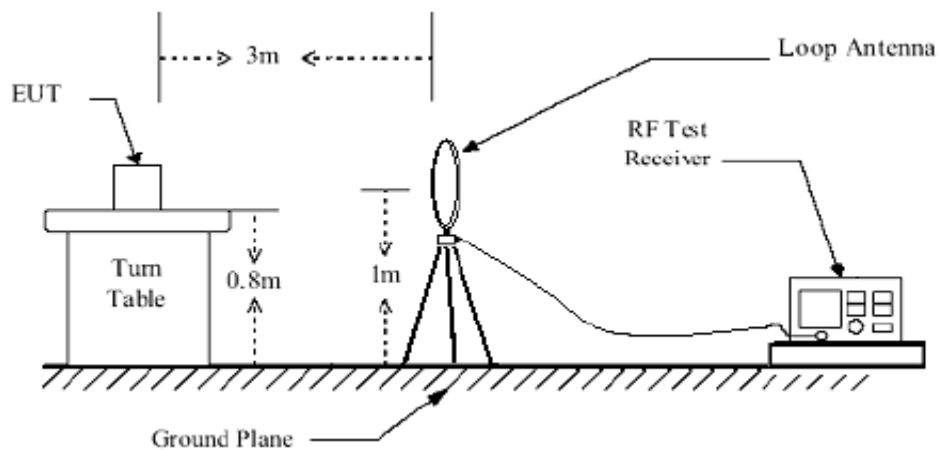
3.6.3 DEVIATION FROM TEST STANDARD

No deviation

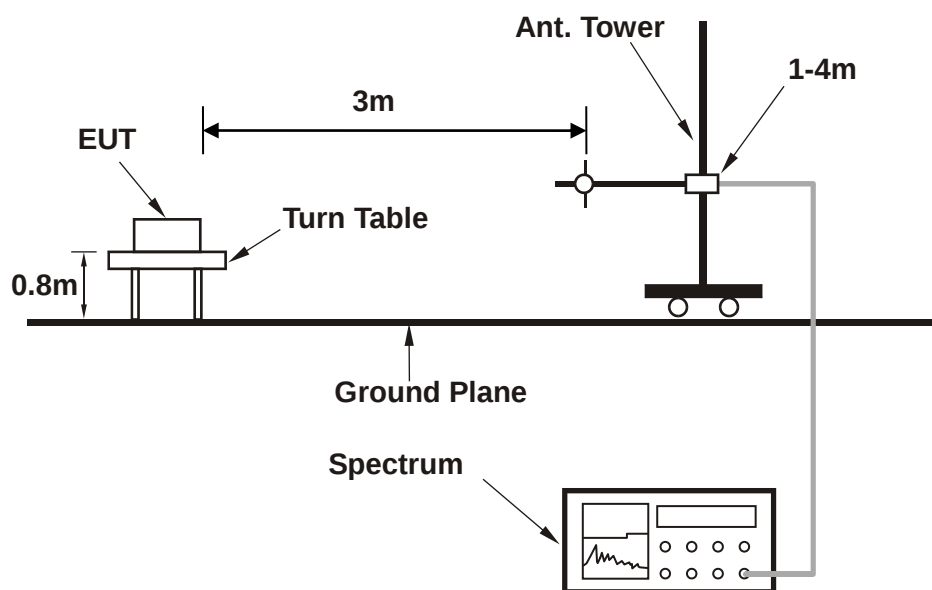


3.6.4 TEST SETUP

<Below 30MHz>

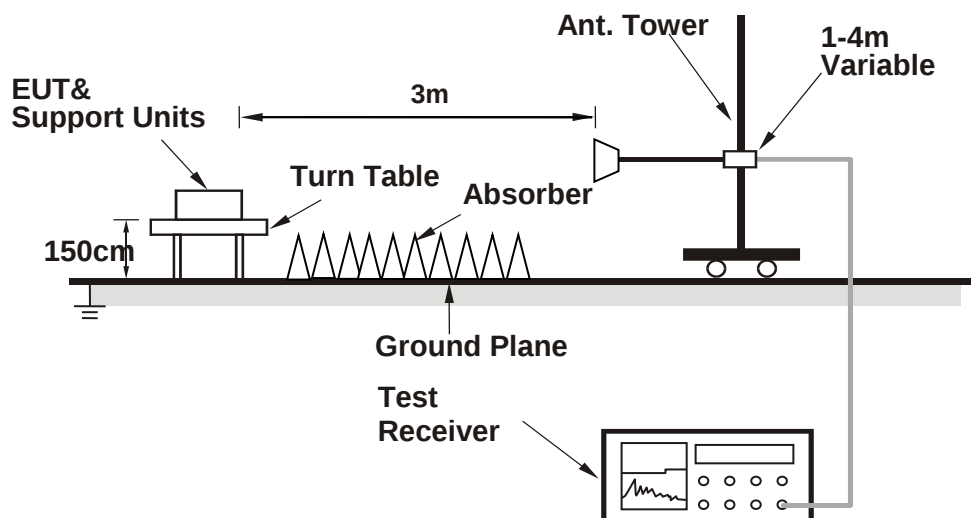


< Frequency Range 30MHz~1GHz >





< Frequency Range above 1GHz >



For the actual test configuration, please refer to the attached file (Test Setup Photo).



3.6.5 TEST RESULTS

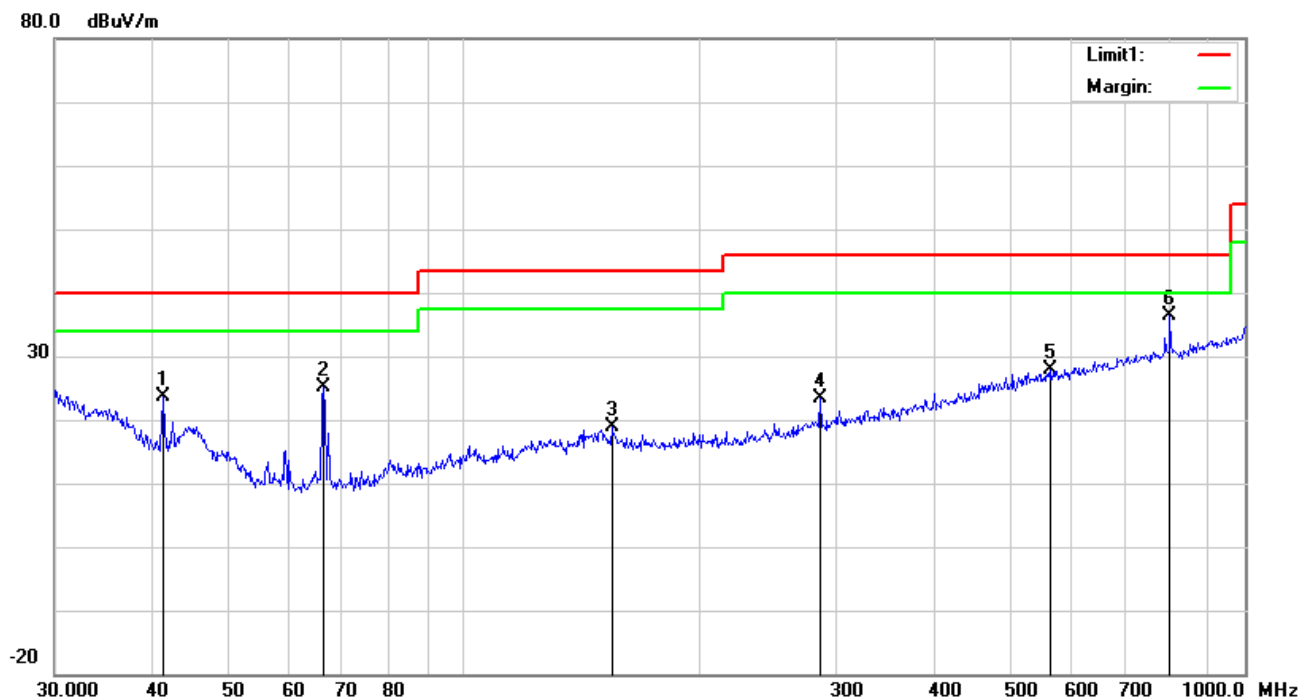
BELOW 1GHz WORST-CASE DATA

30 MHz – 1GHz data:

GSM

MODE	TX channel 512	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	24deg. C, 60%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Aaron Liang		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m										
No.	Frequency (MHz)	Reading (dBuV/m)	Ant_F (dB/m)	PA_G (dB)	Cab_L (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)
1	41.2765	33.92	11.91	22.28	0.19	23.74	40.00	-16.26	170	96
2	66.2662	40.56	6.72	22.39	0.31	25.20	40.00	-14.80	170	96
3	154.8205	29.00	10.96	22.31	1.29	18.94	43.50	-24.56	154	23
4	285.9778	30.54	13.36	22.29	1.69	23.30	46.00	-22.70	154	23
5	564.6389	27.45	19.77	21.66	2.28	27.84	46.00	-18.16	163	77
6	801.7863	32.72	22.29	21.15	2.56	36.42	46.00	-9.58	163	77



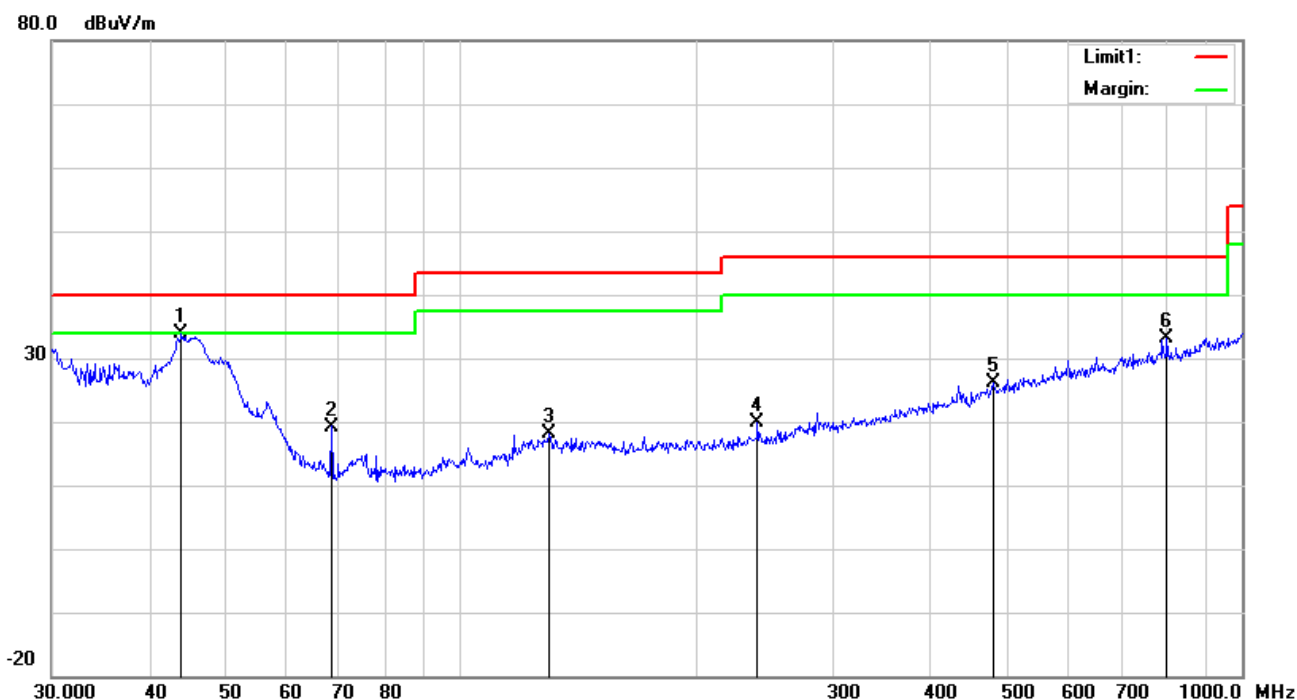


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Test Report No.: RF200512S004-5

MODE	TX channel 512	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	24deg. C, 60%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Aaron Liang		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m										
No.	Frequency	Reading	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
	(MHz)	(dBuV/m)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	43.9658	45.63	10.24	22.29	0.20	33.78	40.00	-6.22	159	18
2	68.3908	34.70	6.60	22.38	0.33	19.25	40.00	-20.75	159	18
3	129.9226	27.80	11.54	22.38	1.08	18.04	43.50	-25.46	143	287
4	239.9873	28.82	11.70	22.31	1.60	19.81	46.00	-26.19	143	287
5	480.5276	27.37	18.47	21.85	2.08	26.07	46.00	-19.93	169	62
6	801.7863	29.52	22.29	21.15	2.56	33.22	46.00	-12.78	169	62



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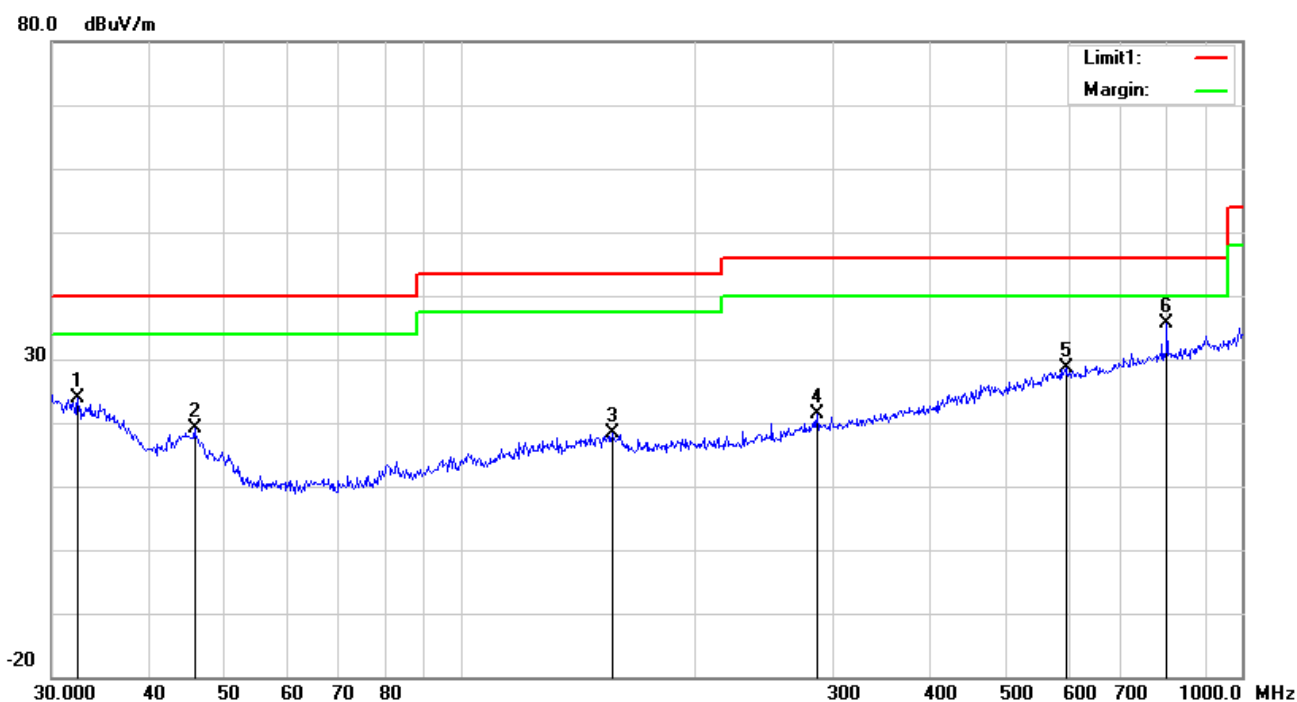
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LTE Band 2

MODE	TX channel 18900	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	24deg. C, 60%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Aaron Liang		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m										
No.	Frequency	Reading	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
	(MHz)	(dBuV/m)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	32.4059	27.42	18.56	22.27	0.14	23.85	40.00	-16.15	158	45
2	45.6948	31.88	9.34	22.30	0.21	19.13	40.00	-20.87	158	45
3	156.4578	28.35	10.98	22.29	1.30	18.34	43.50	-25.16	169	338
4	285.9778	28.68	13.36	22.29	1.69	21.44	46.00	-24.56	169	338
5	595.1329	27.67	20.26	21.59	2.31	28.65	46.00	-17.35	153	79
6	801.7863	31.84	22.29	21.15	2.56	35.54	46.00	-10.46	153	79



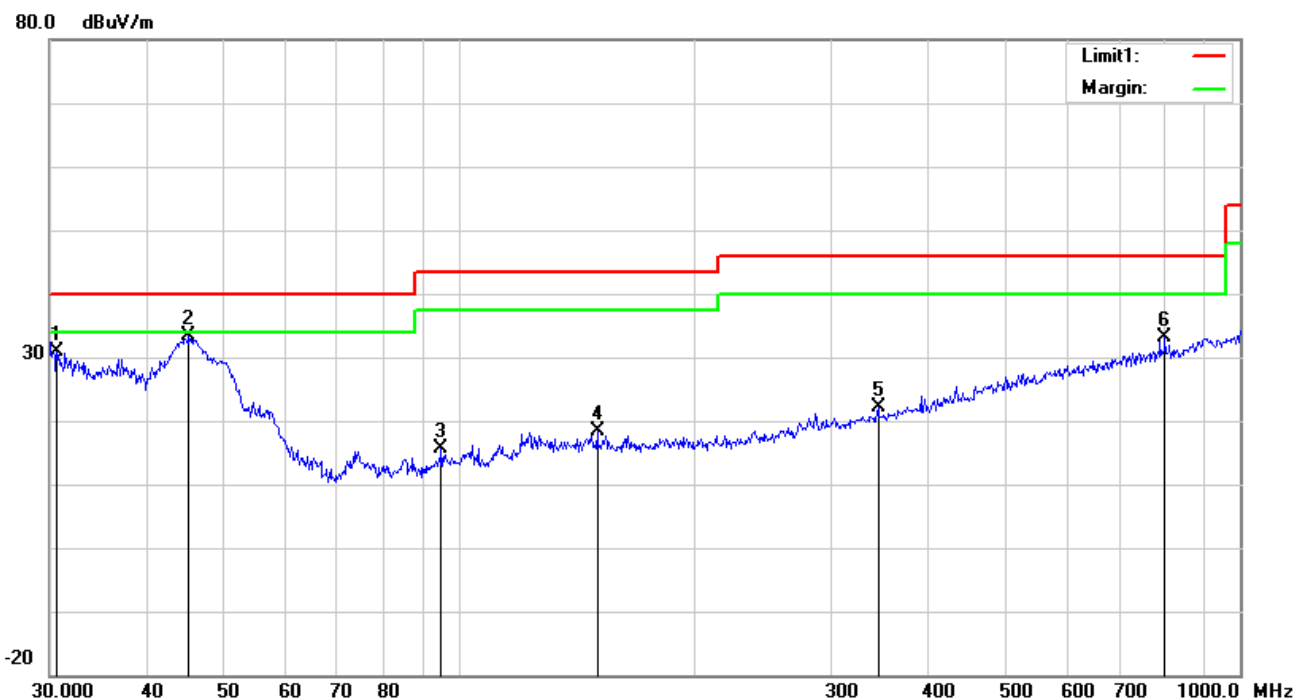


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Test Report No.: RF200512S004-5

MODE	TX channel 18900	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	24deg. C, 60%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Aaron Liang		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m										
No.	Frequency	Reading	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
	(MHz)	(dBuV/m)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	30.6379	33.35	19.69	22.28	0.13	30.89	40.00	-9.11	138	112
2	45.2166	45.85	9.52	22.29	0.21	33.29	40.00	-6.71	138	112
3	95.0930	28.95	8.21	22.32	0.78	15.62	43.50	-27.88	142	122
4	150.5378	28.55	10.91	22.34	1.27	18.39	43.50	-25.11	142	122
5	344.3855	27.89	14.59	22.17	1.84	22.15	46.00	-23.85	134	4
6	801.7863	29.44	22.29	21.15	2.56	33.14	46.00	-12.86	134	4



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ABOVE 1GHz

Note: For higher frequency, the emission is too low to be detected.

GSM

Low channel

Frequency (MHz)	Antenna Polarization (H/V)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3700.4	V	-45.89	-13	-32.89
3700	H	-45.57	-13	-32.57
5716.6	V	-59.93	-13	-46.93
5550	H	-43.01	-13	-30.01

Middle channel

Frequency (MHz)	Antenna Polarization (H/V)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3760	V	-41.53	-13	-28.53
3760	H	-45.55	-13	-32.55
5640	V	-44.06	-13	-31.06
5640	H	-42.43	-13	-29.43

**High channel**

Frequency (MHz)	Antenna Polarization (H/V)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3819.6	V	-43.19	-13	-30.19
-3819.6	H	-44.41	-13	-31.41
5729.4	V	-41.1	-13	-28.1
5729.4	H	-41.3	-13	-28.3

Note:

- 1, The testing has been conformed to $10 \times 1909.8 \text{ MHz} = 19,098 \text{ MHz}$*
- 2, All other emissions more than 30 dB below the limit*
- 3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.*



LTE BAND 2

CHANNEL BANDWIDTH: 1.4MHz / QPSK

Low channel

Frequency (MHz)	Antenna Polarization (H/V)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3705.3	V	-29.91	-13	-16.91
3705.3	H	-28.6	-13	-15.6
5555.08	V	-40.28	-13	-27.28
5555.08	H	-39	-13	-26

Middle channel

Frequency (MHz)	Antenna Polarization (H/V)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3758.8	V	-29.37	-13	-16.37
3758.8	H	-29.51	-13	-16.51
5264.3	V	-40.9	-13	-27.9
5645.3	H	-39.38	-13	-26.38

**High channel**

Frequency (MHz)	Antenna Polarization (H/V)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3819.9	V	-32.81	-13	-19.81
3819.9	H	-35.46	-13	-22.46
5737.16	V	-38.44	-13	-25.44
5726.9	H	-40.12	-13	-27.12

Note:

- 1, The testing has been conformed to $10 \times 1909.3 \text{ MHz} = 19,093 \text{ MHz}$*
- 2, All other emissions more than 30 dB below the limit*
- 3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.*

**LTE Band 2:****CHANNEL BANDWIDTH: 3MHz / QPSK****Low channel**

Frequency (MHz)	Antenna Polarization (H/V)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3705.3	V	-35.36	-13	-22.36
3705.3	H	-34.59	-13	-21.59
5565.05	V	-39.92	-13	-26.92
5555.08	H	-40.44	-13	-27.44

Middle channel

Frequency (MHz)	Antenna Polarization (H/V)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3758.8	V	-36.1	-13	-23.1
3758.8	H	-36.26	-13	-23.26
5706.4	V	-39.48	-13	-26.48
5254.9	H	-39.72	-13	-26.72

**High channel**

Frequency (MHz)	Antenna Polarization (H/V)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3819.9	V	-37.02	-13	-24.02
3819.9	H	-37.25	-13	-24.25
5737.16	V	-39.35	-13	-26.35
5217.4	H	-40.55	-13	-27.55

Note:

- 1, The testing has been conformed to $10 \times 1908.5 \text{ MHz} = 19,085 \text{ MHz}$*
- 2, All other emissions more than 30 dB below the limit*
- 3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.*

**LTE Band 2:****CHANNEL BANDWIDTH: 5MHz / QPSK****Low channel**

Frequency (MHz)	Antenna Polarization (H/V)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3711.98	V	-36.3	-13	-23.3
3705.3	H	-35.04	-13	-22.04
5180.15	V	-39.68	-13	-26.68
5292.7	H	-40.53	-13	-27.53

Middle channel

Frequency (MHz)	Antenna Polarization (H/V)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3765.58	V	-39.19	-13	-26.19
3758.8	H	-36.67	-13	-23.67
5706.4	V	-39.53	-13	-26.53
5675.8	H	-40.83	-13	-27.83

**High channel**

Frequency (MHz)	Antenna Polarization (H/V)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3819.9	V	-38.15	-13	-25.15
3813.1	H	-38.5	-13	-25.5
5585	V	-40.78	-13	-27.78
5236.1	H	-40.53	-13	-27.53

Note:

- 1, The testing has been conformed to $10 \times 1907.5 \text{ MHz} = 19,075 \text{ MHz}$*
- 2, All other emissions more than 30 dB below the limit*
- 3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.*

**LTE Band 2:****CHANNEL BANDWIDTH: 10MHz / QPSK****Low channel**

Frequency (MHz)	Antenna Polarization (H/V)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3718.6	V	-38.39	-13	-25.39
3711.98	H	-36.56	-13	-23.56
5696.19	V	-39.47	-13	-26.47
5525.3	H	-41.4	-13	-28.4

Middle channel

Frequency (MHz)	Antenna Polarization (H/V)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3765.58	V	-40.46	-13	-27.46
3758.8	H	-37.73	-13	-24.73
5685.99	V	-40.54	-13	-27.54
5245.5	H	-39.84	-13	-26.84

**High channel**

Frequency (MHz)	Antenna Polarization (H/V)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3813.1	V	-39.09	-13	-26.09
3806.2	H	-40.04	-13	-27.04
5726.89	V	-39.99	-13	-26.99
5359.5	H	-40.76	-13	-27.76

Note:

- 1, The testing has been conformed to $10 \times 1905 \text{ MHz} = 19,050 \text{ MHz}$
- 2, All other emissions more than 30 dB below the limit
- 3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.

**LTE Band 2:****CHANNEL BANDWIDTH: 15MHz / QPSK****Low channel**

Frequency (MHz)	Antenna Polarization (H/V)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3718.6	V	-38.72	-13	-25.72
3705.3	H	-38.73	-13	-25.73
5685.99	V	-40.68	-13	-27.68
5476	H	-42.34	-13	-29.34

Middle channel

Frequency (MHz)	Antenna Polarization (H/V)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3772.3	V	-40.79	-13	-27.79
3765.58	H	-38.96	-13	-25.96
5398.09	V	-40.97	-13	-27.97
5726.89	H	-40.4	-13	-27.4

**High channel**

Frequency (MHz)	Antenna Polarization (H/V)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3806.28	V	-40.6	-13	-27.6
3799.46	H	-40.24	-13	-27.24
5737.16	V	-40.41	-13	-27.41
5349.9	H	-40.64	-13	-27.64

Note:

- 1, The testing has been conformed to $10 \times 1902.5 \text{ MHz} = 19,025 \text{ MHz}$*
- 2, All other emissions more than 30 dB below the limit*
- 3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.*

**LTE Band 2:****CHANNEL BANDWIDTH: 20MHz / QPSK****Low channel**

Frequency (MHz)	Antenna Polarization (H/V)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3711.98	V	-40.91	-13	-27.91
3718.6	H	-39.27	-13	-26.27
5359.5	V	-41.35	-13	-28.35
5645.39	H	-40.54	-13	-27.54

Middle channel

Frequency (MHz)	Antenna Polarization (H/V)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3772.3	V	-41.54	-13	-28.54
3758.8	H	-38.73	-13	-25.73
5675.8	V	-41.59	-13	-28.59
5446.67	H	-41.75	-13	-28.75

**High channel**

Frequency (MHz)	Antenna Polarization (H/V)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3792.66	V	-40.76	-13	-27.76
3785.87	H	-41.25	-13	-28.25
5264.36	V	-40.5	-13	-27.5
5685.99	H	-41.69	-13	-28.69

Note:

- 1, The testing has been conformed to 10*1900MHz=19,000MHz*
- 2, All other emissions more than 30 dB below the limit*
- 3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.*

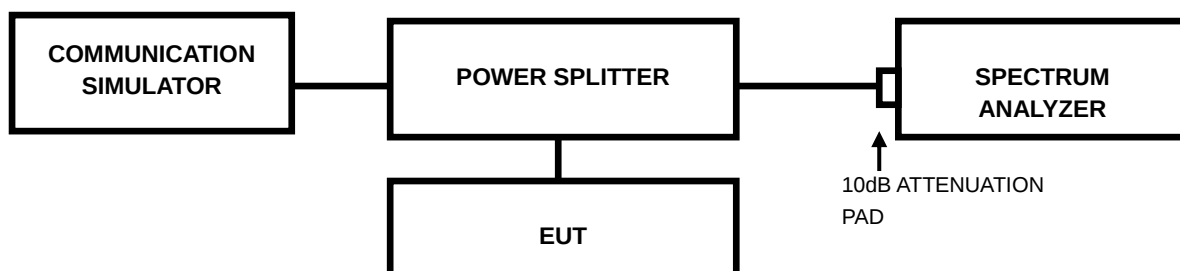


3.7 PEAK TO AVERAGE RATIO

3.7.1 LIMITS OF peak to average ratio MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

3.7.2 TEST SETUP



3.7.3 TEST PROCEDURES

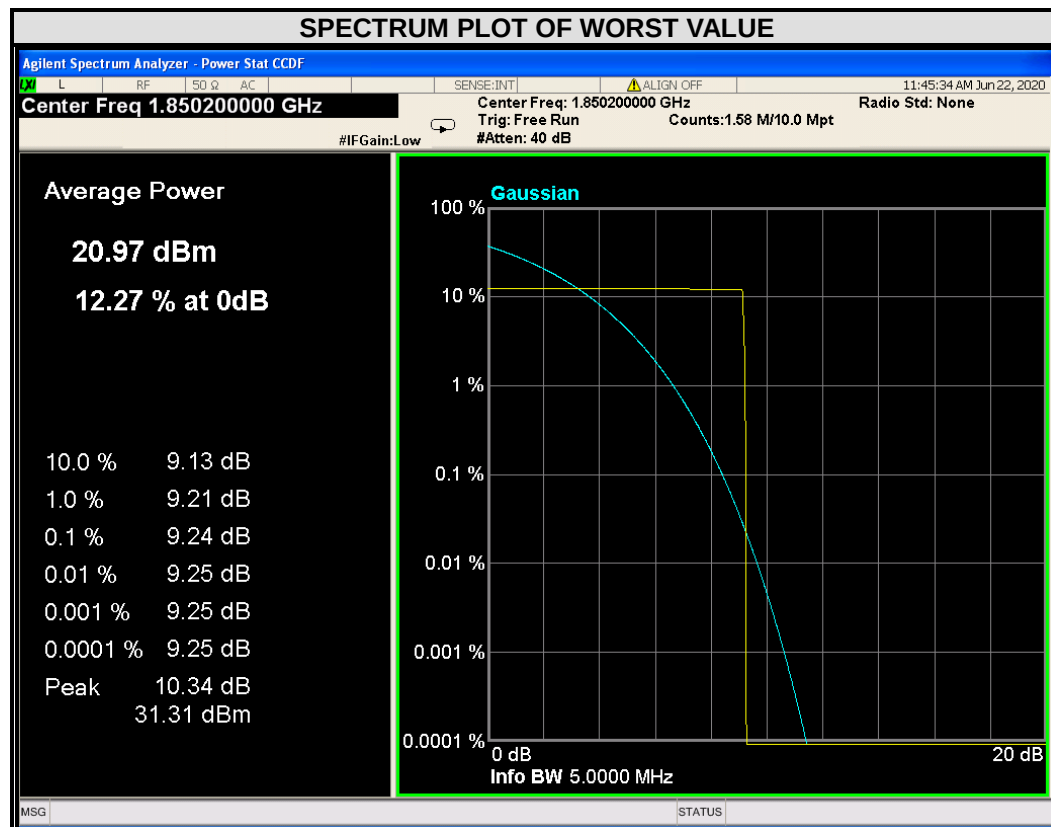
1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.



3.7.4 TEST RESULTS

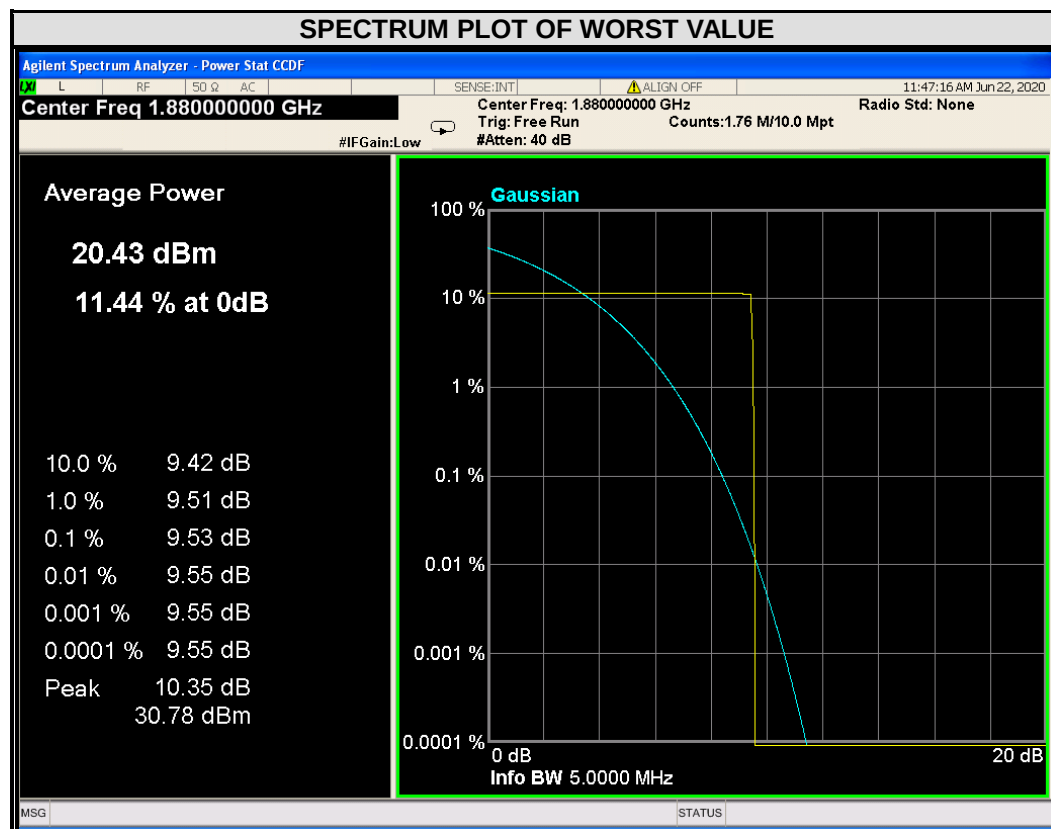
GSM

CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
512	1850.2	9.24



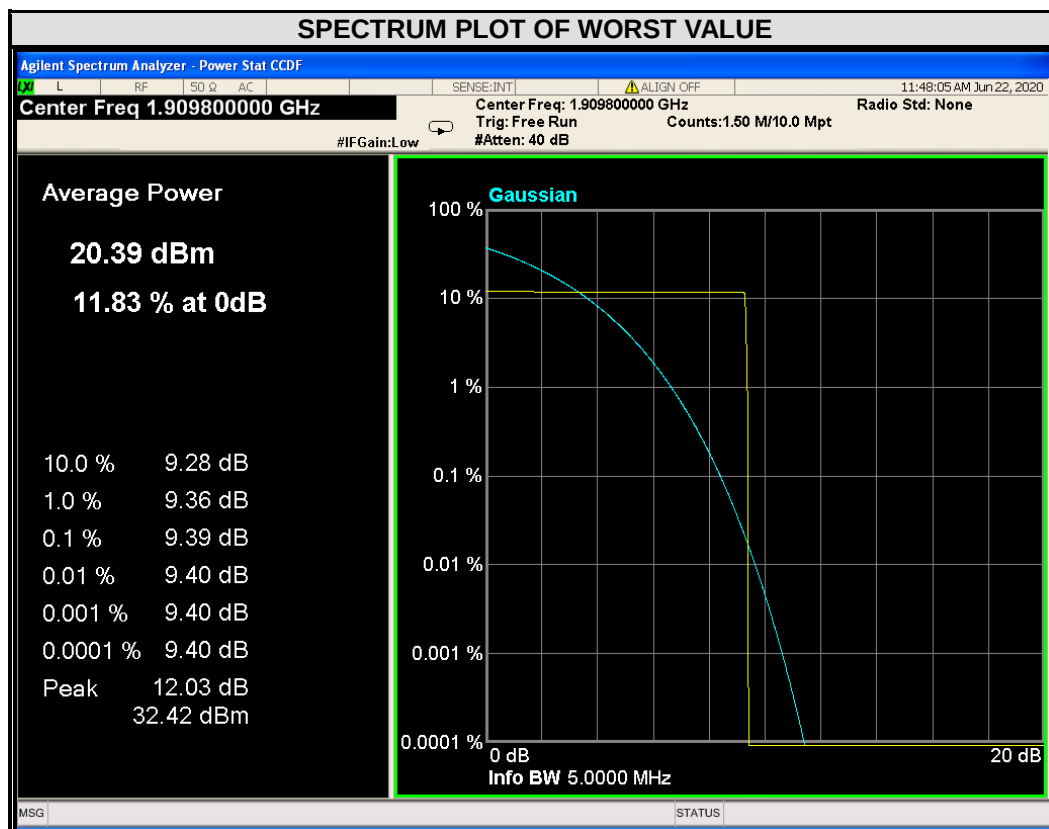


CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
661	1880	9.53





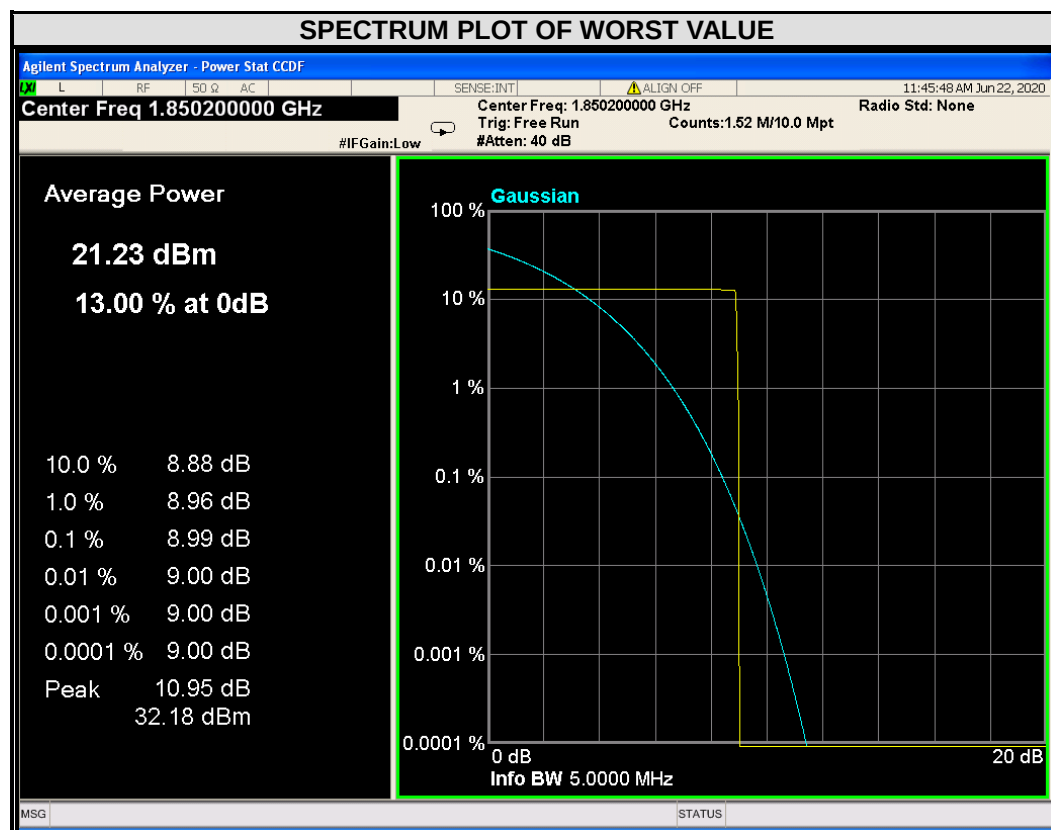
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
810	1909.8	9.39





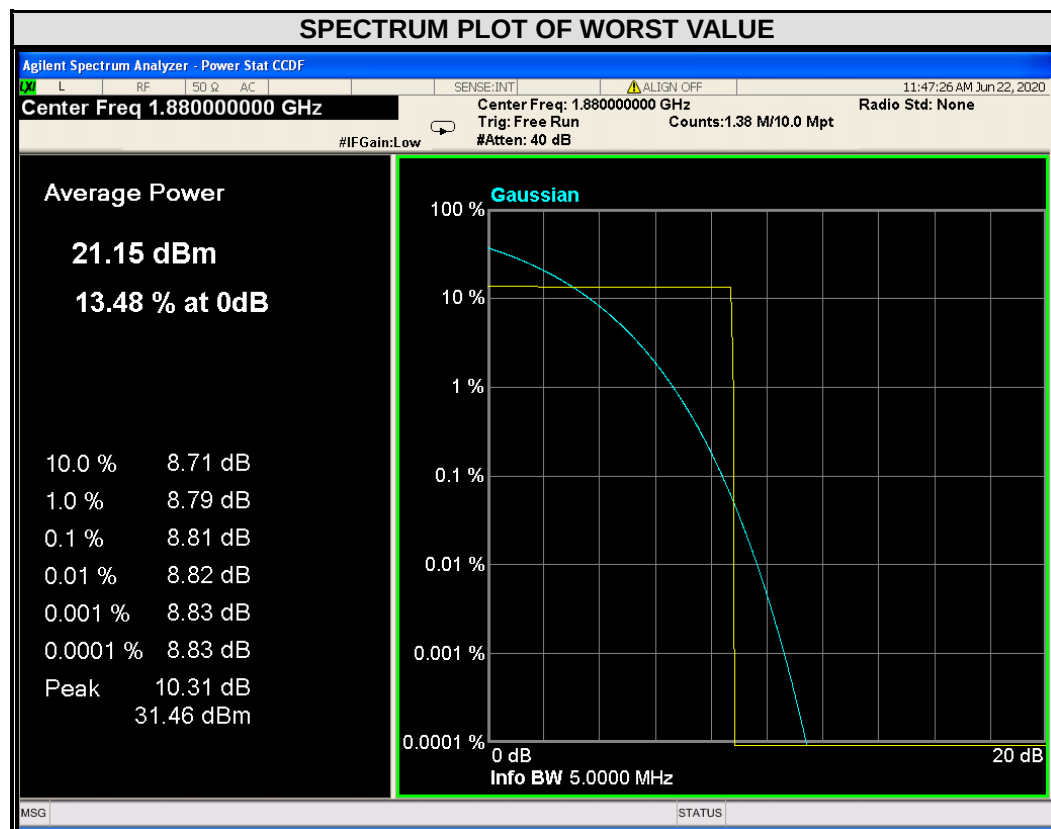
GPRS

CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
512	1850.2	8.99



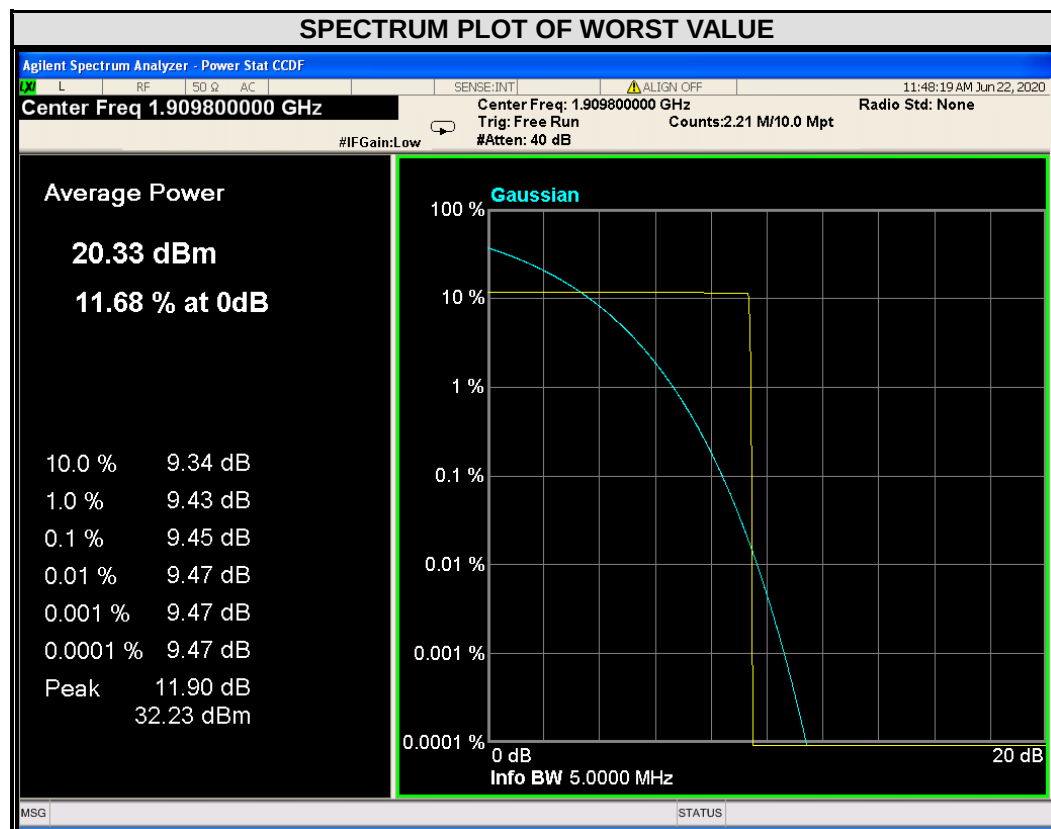


CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
661	1880	8.81





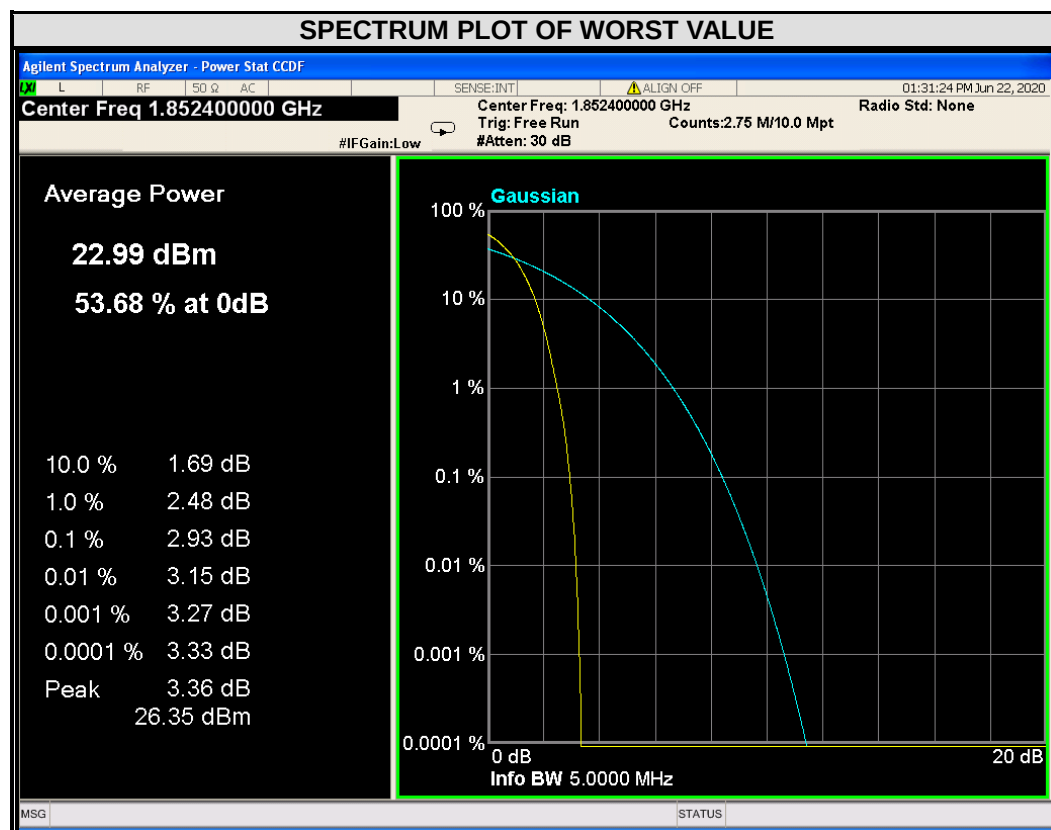
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
810	1909.8	9.45





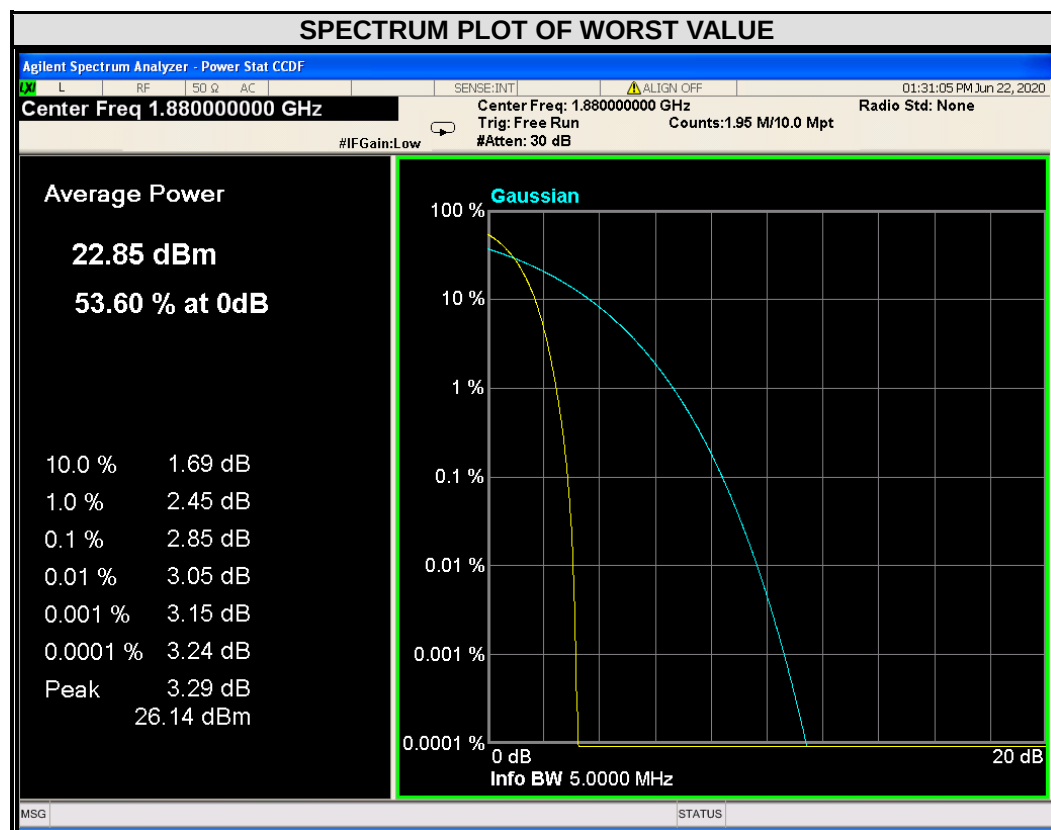
WCDMA

CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
9262	1852.4	2.93



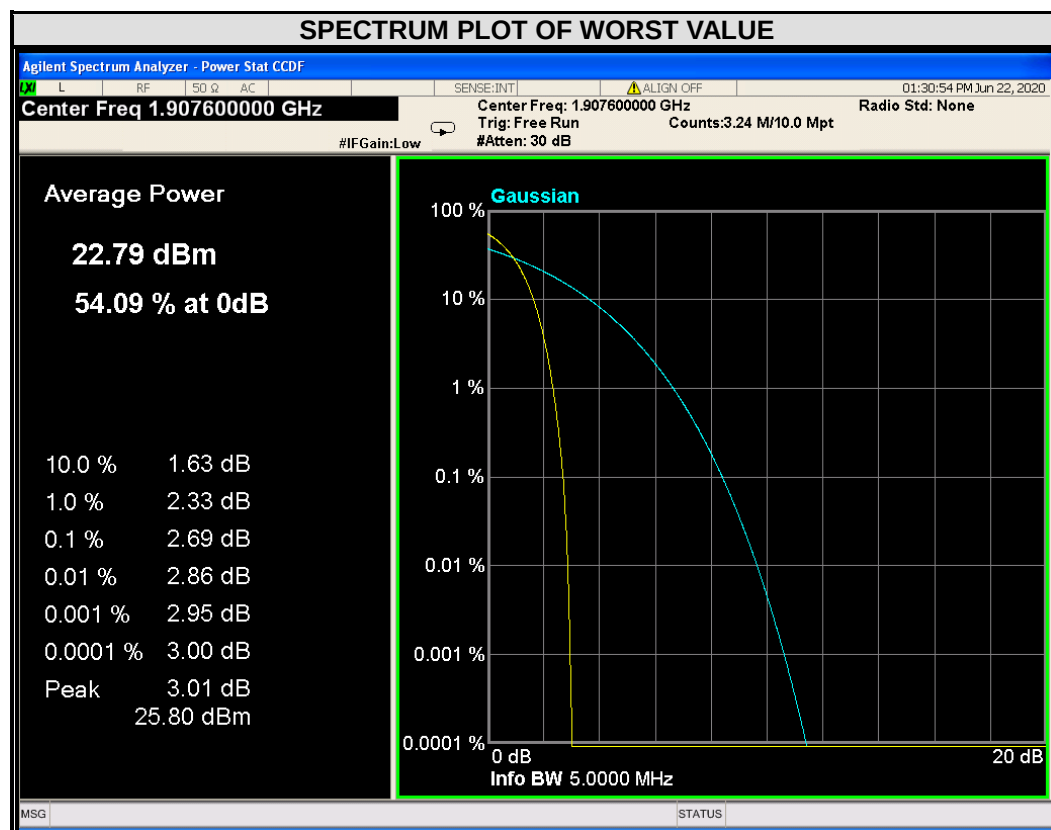


CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
9400	1880.0	2.85





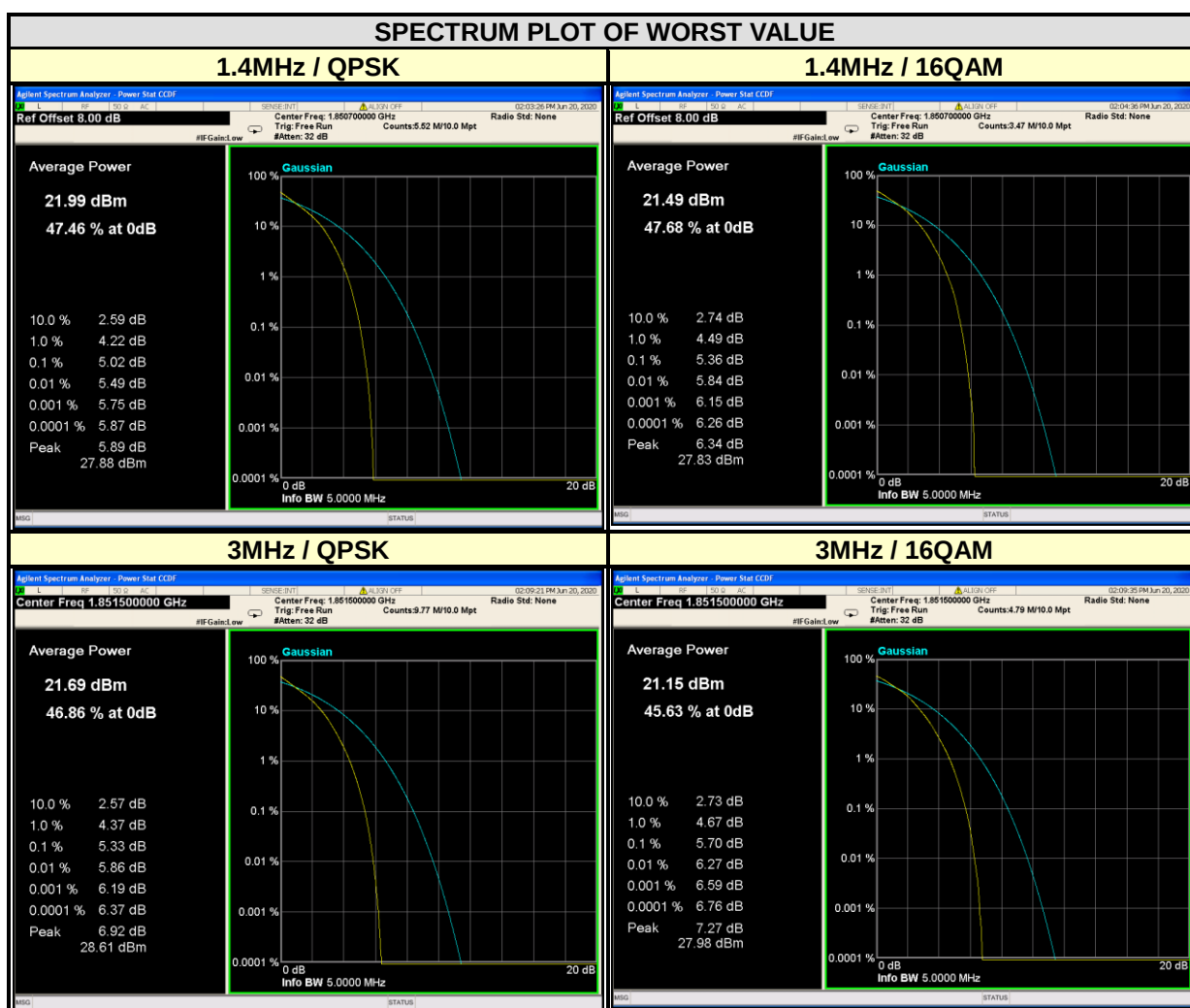
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
9538	1907.6	2.69





LTE BAND 2

CHANNEL BANDWIDTH: 1.4MHz				CHANNEL BANDWIDTH: 3MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
18607	1850.7	5.02	5.36	18615	1851.5	5.33	5.70
18900	1880	4.37	5.31	18900	1880	5.19	5.58
19193	1909.3	4.30	4.66	19185	1908.5	5.03	5.26

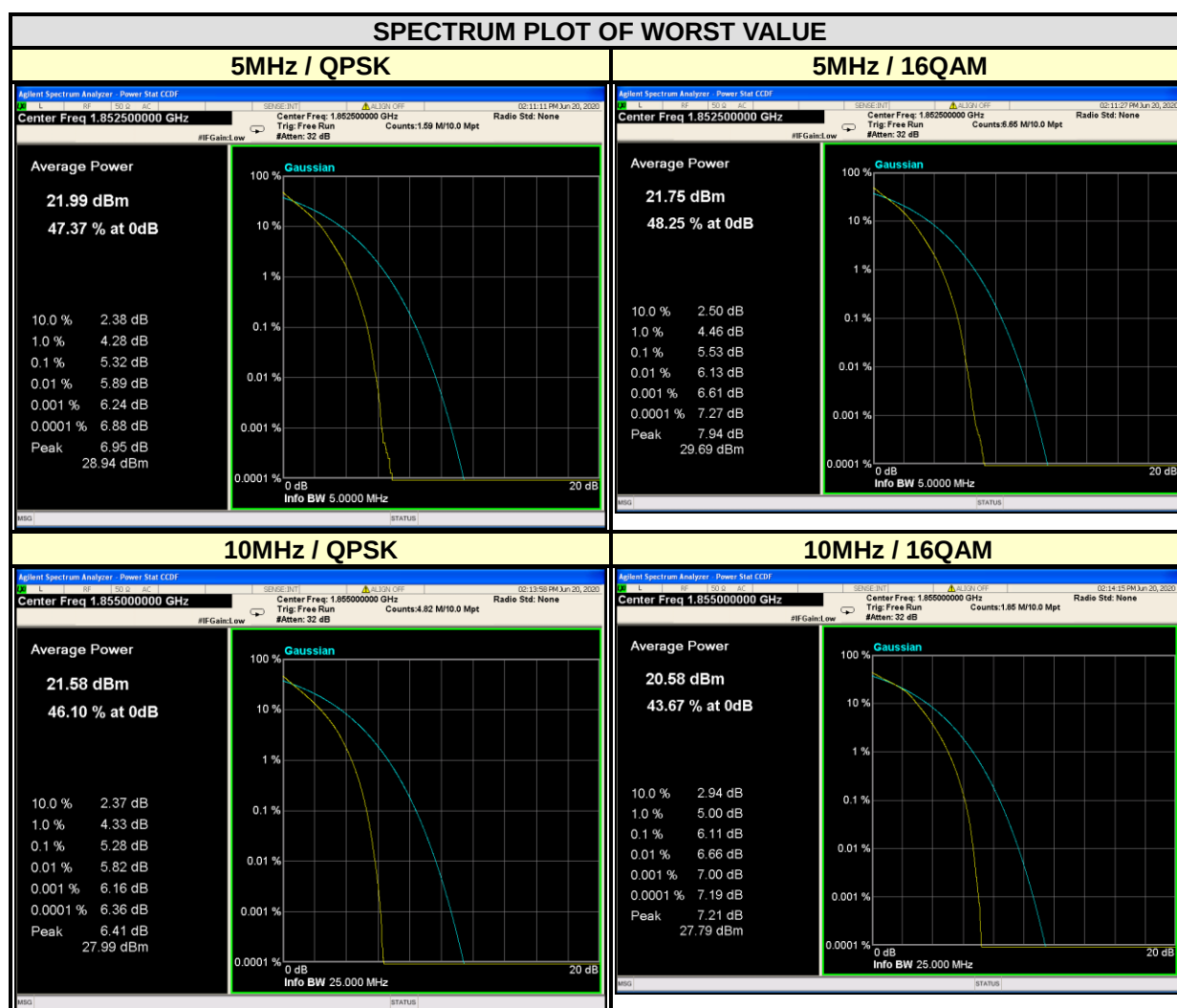




BUREAU
VERITAS

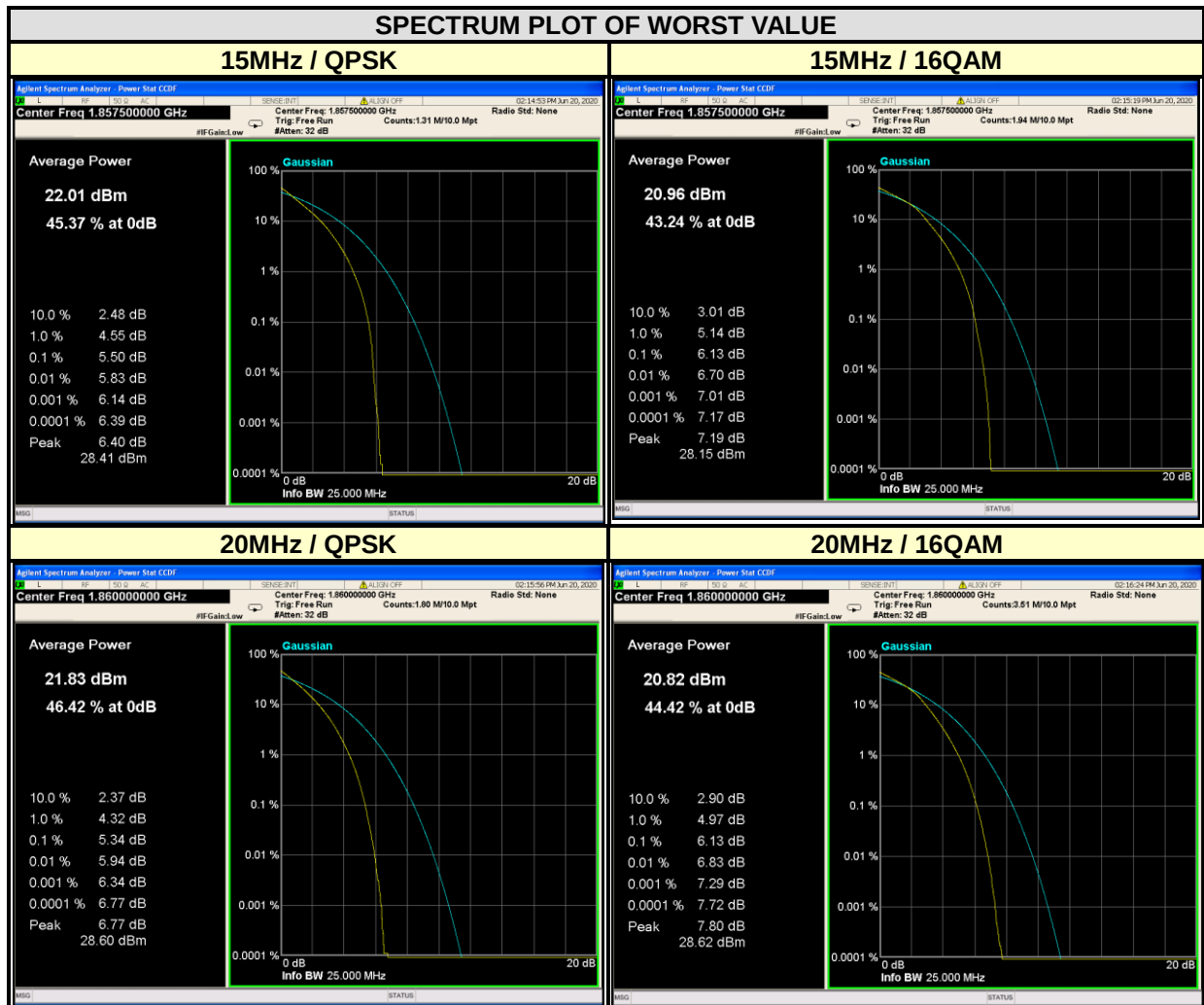
Test Report No.: RF200512S004-5

CHANNEL BANDWIDTH: 5MHz				CHANNEL BANDWIDTH: 10MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
18625	1852.5	5.32	5.53	18650	1855	5.28	6.11
18900	1880	5.2	5.45	18900	1880	5.22	6
19175	1907.5	4.96	5.2	19150	1905	5.02	5.74





CHANNEL BANDWIDTH: 15MHz				CHANNEL BANDWIDTH: 20MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
18675	1857.5	5.50	6.13	18700	1860	5.34	6.13
18900	1880	5.45	6.08	18900	1880	5.20	6.06
19125	1902.5	5.20	5.80	19100	1900	5.05	5.73





Test Report No.: RF200512S004-5

5 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

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