

Channel Bandwidth 10MHz

**Channel 26090
(1855.0MHz)**

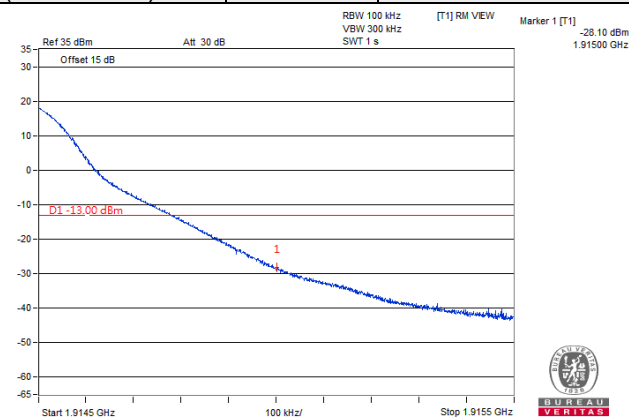
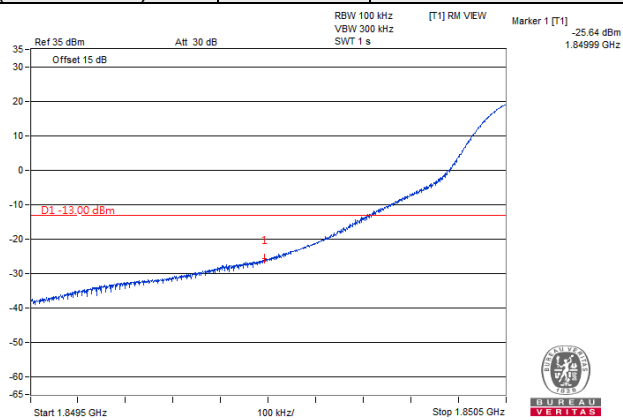
QPSK

1 RB / 0 RB Offset

**Channel 26640
(1910.0MHz)**

QPSK

1 RB / 49 RB Offset



**Channel 26090
(1855.0MHz)**

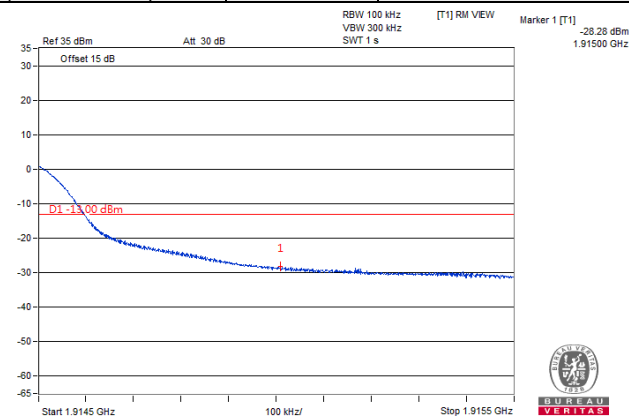
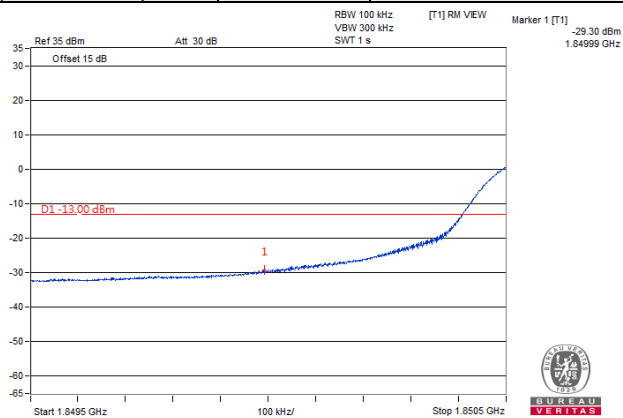
QPSK

50 RB / 0 RB Offset

**Channel 26640
(1910.0MHz)**

QPSK

50 RB / 0 RB Offset



Channel Bandwidth 15MHz

**Channel 26115
(1857.5MHz)**

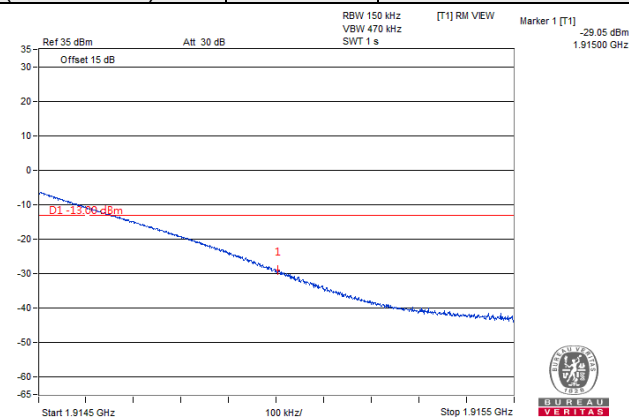
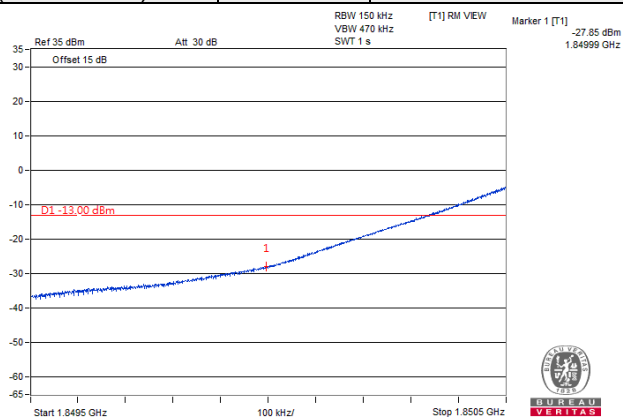
QPSK

1 RB / 0 RB Offset

**Channel 26615
(1907.5MHz)**

QPSK

1 RB / 74 RB Offset



**Channel 26115
(1857.5MHz)**

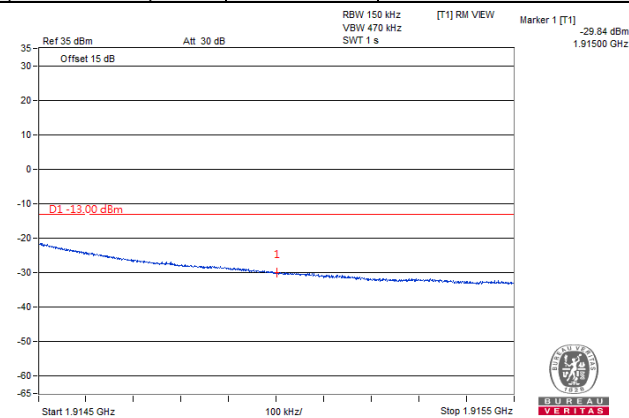
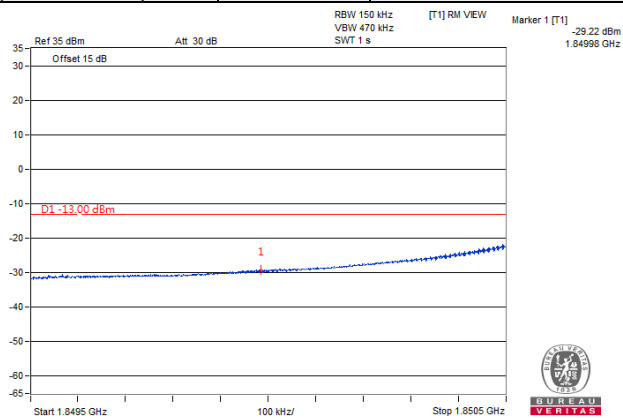
QPSK

75 RB / 0 RB Offset

**Channel 26615
(1907.5MHz)**

QPSK

75 RB / 0 RB Offset



Channel Bandwidth 20MHz

**Channel 26140
(1860.0MHz)**

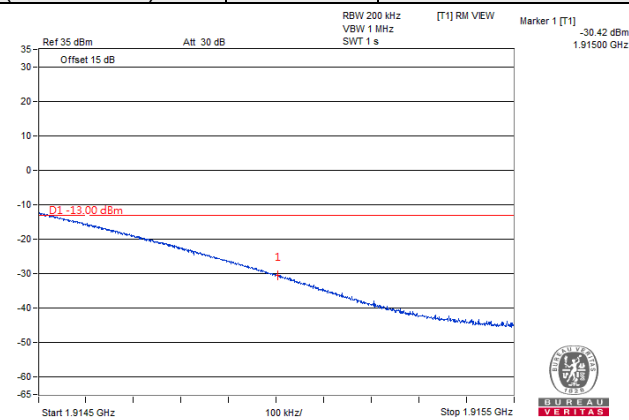
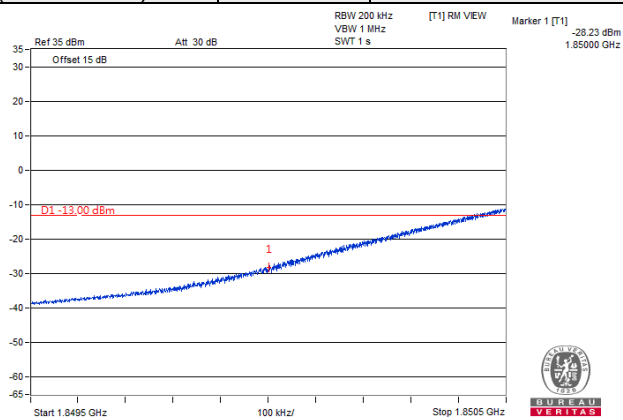
QPSK

1 RB / 0 RB Offset

**Channel 26590
(1905.0MHz)**

QPSK

1 RB / 99 RB Offset



**Channel 26140
(1860.0MHz)**

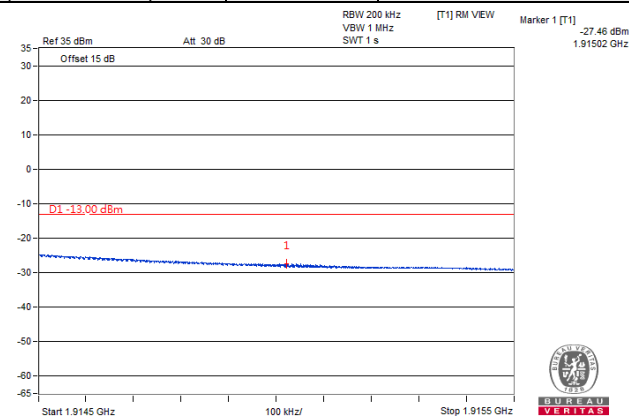
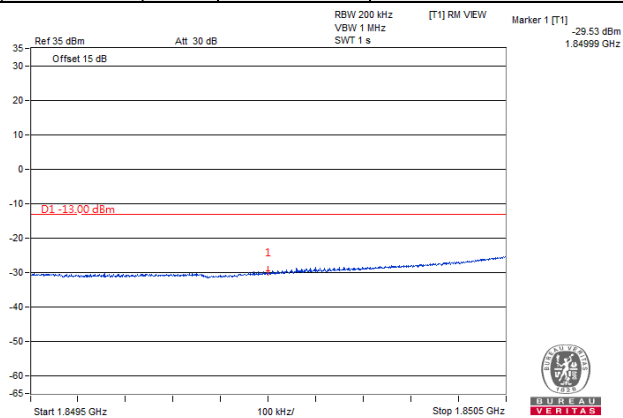
QPSK

100 RB / 0 RB Offset

**Channel 26590
(1905.0MHz)**

QPSK

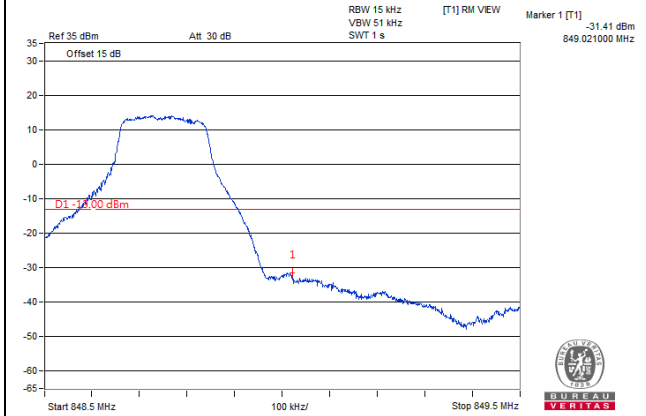
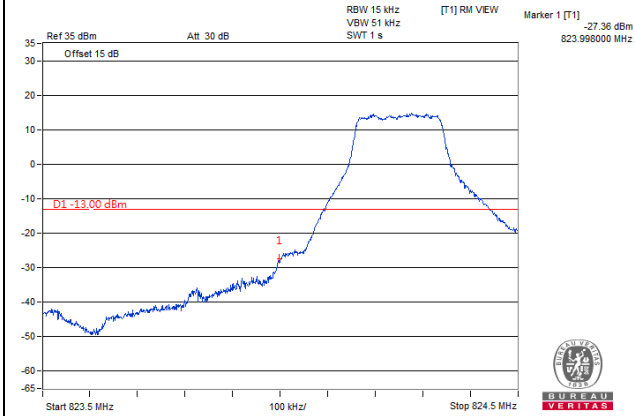
100 RB / 0 RB Offset



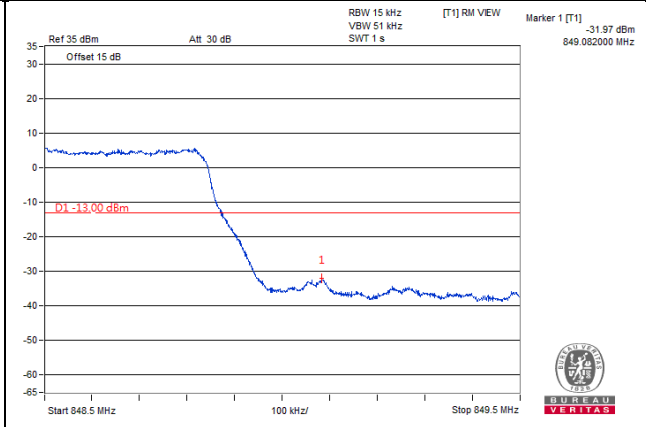
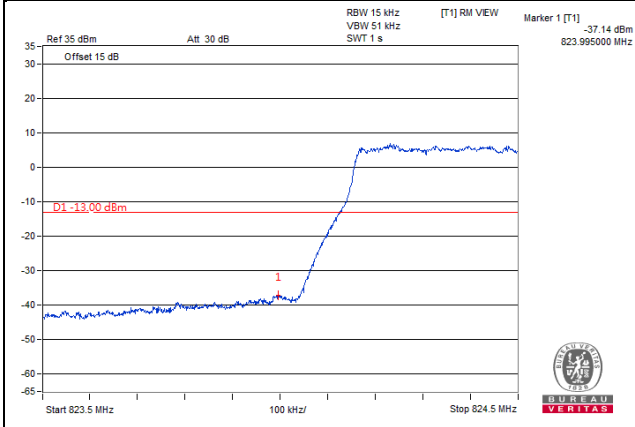
LTE Band 26 (Part 22)

Channel Bandwidth 1.4MHz

Channel 26797 (824.7MHz)	QPSK	1 RB / 0 RB Offset	Channel 27033 (848.3MHz)	QPSK	1 RB / 5 RB Offset
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Channel 26797 (824.7MHz)	QPSK	6 RB / 0 RB Offset	Channel 27033 (848.3MHz)	QPSK	6 RB / 0 RB Offset
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Channel Bandwidth 3MHz

Channel 26805
(825.5MHz)

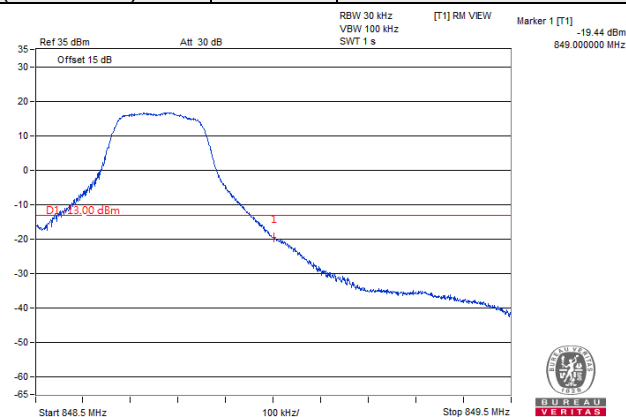
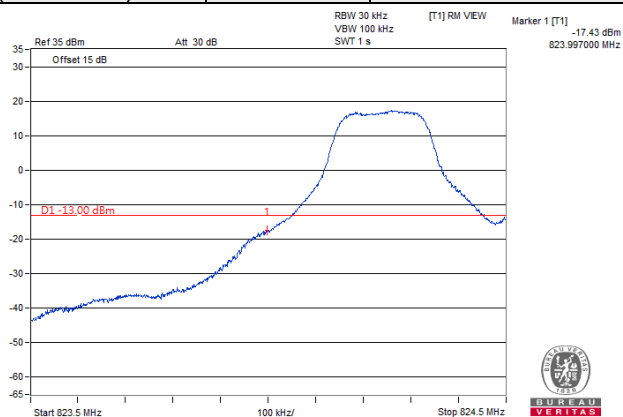
QPSK

1 RB / 0 RB Offset

Channel 27025
(847.5MHz)

QPSK

1 RB / 14 RB Offset



Channel 26805
(825.5MHz)

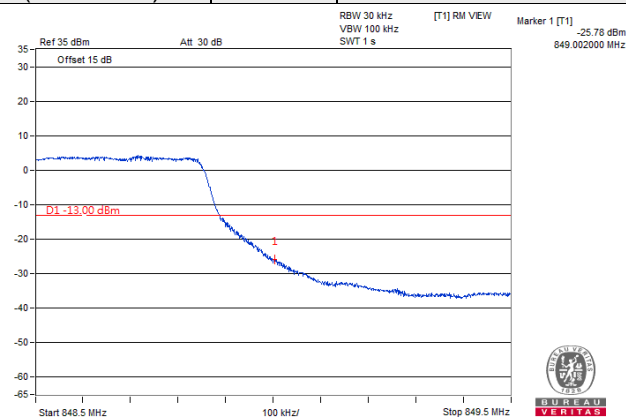
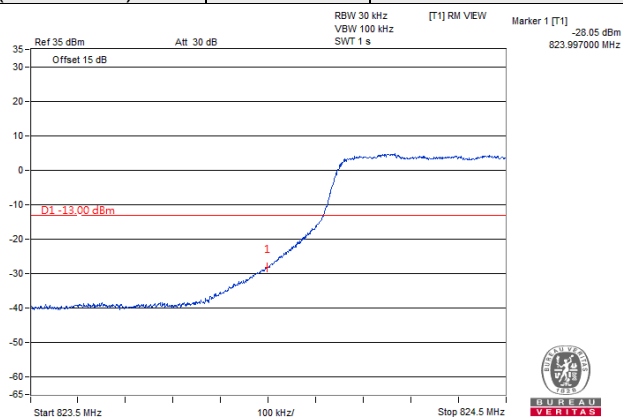
QPSK

15 RB / 0 RB Offset

Channel 27025
M(847.5MHz)

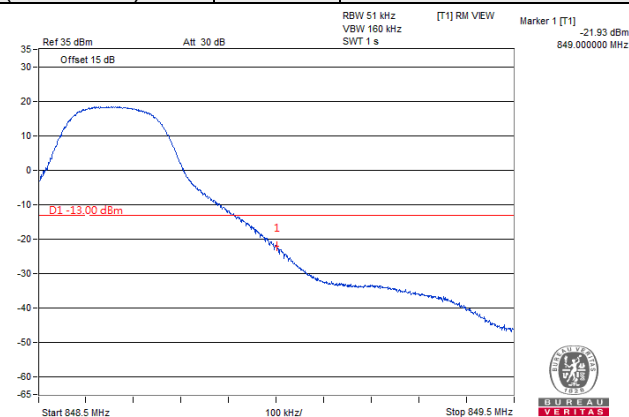
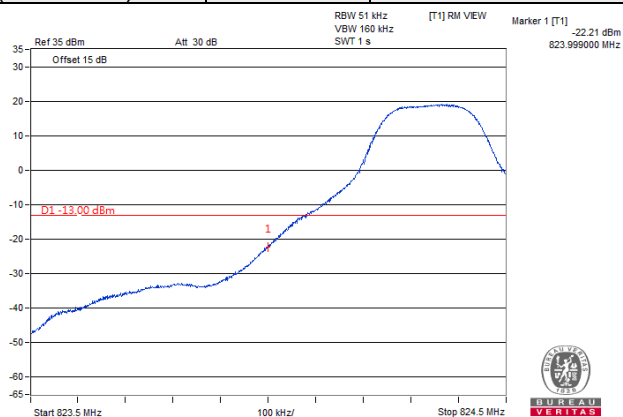
QPSK

15 RB / 0 RB Offset

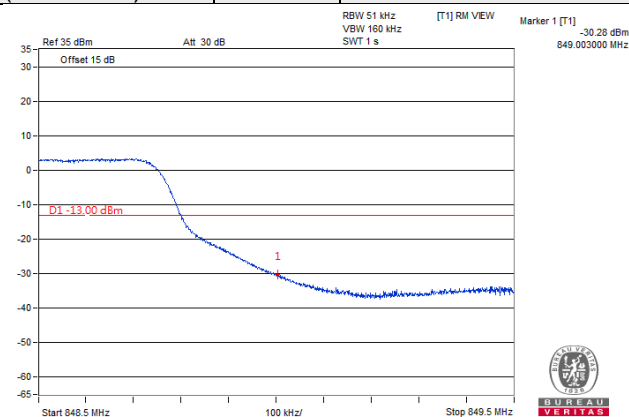
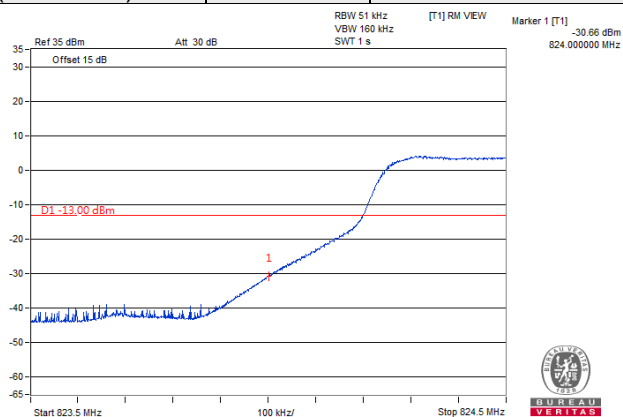


Channel Bandwidth 5MHz

Channel 26815 (826.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 27015 (846.5MHz)	QPSK	1 RB / 24 RB Offset
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Channel 26815 (826.5MHz)	QPSK	25 RB / 0 RB Offset	Channel 27015 (846.5MHz)	QPSK	25 RB / 0 RB Offset
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Channel Bandwidth 10MHz

**Channel 26840
(829MHz)**

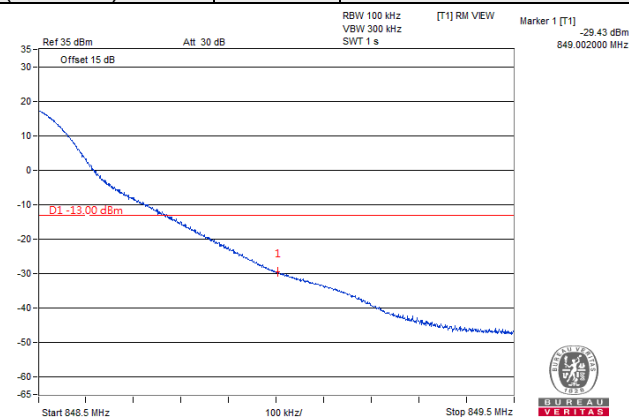
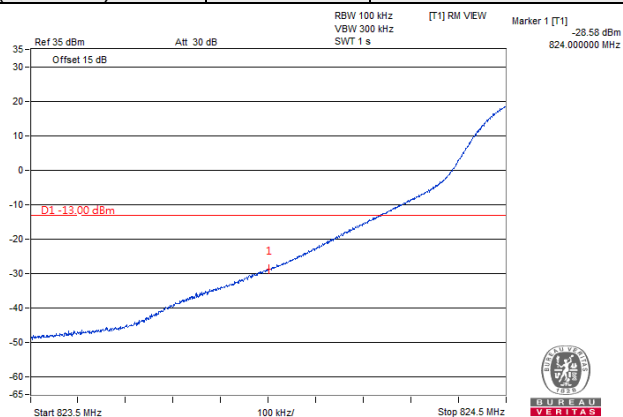
QPSK

1 RB / 0 RB Offset

**Channel 26990
(844MHz)**

QPSK

1 RB / 49 RB Offset



**Channel 26840
(829MHz)**

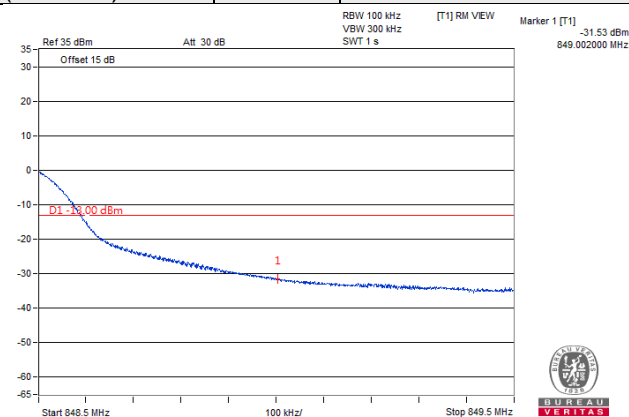
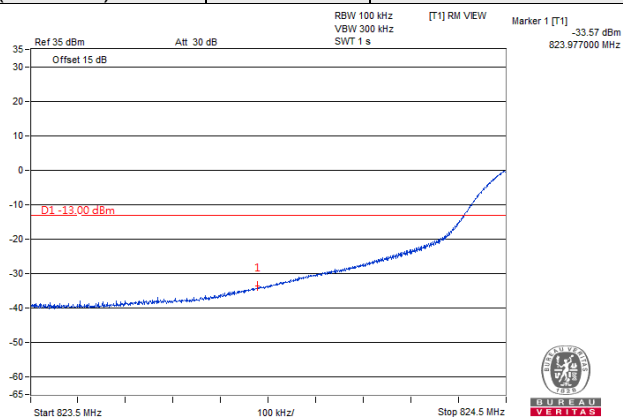
QPSK

50 RB / 0 RB Offset

**Channel 26990
(844MHz)**

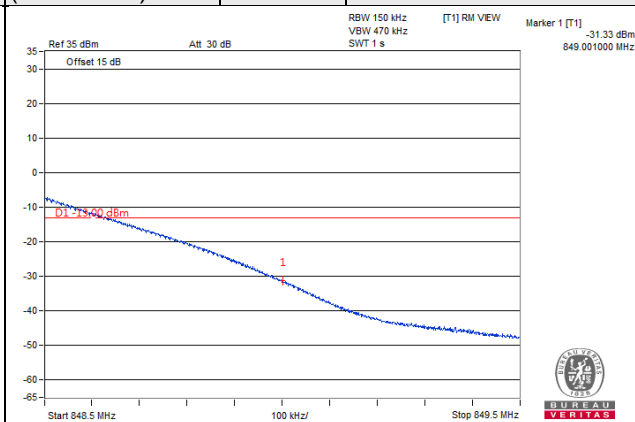
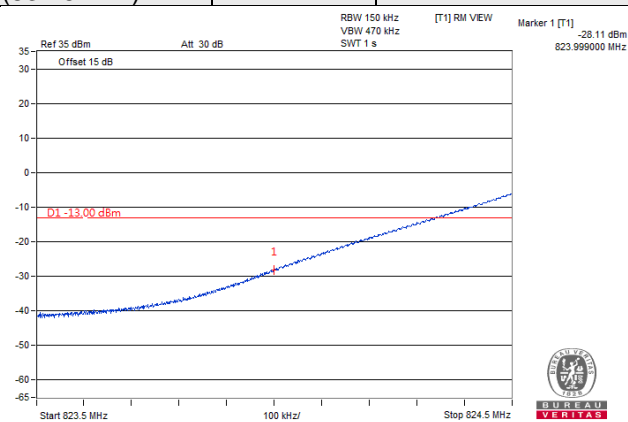
QPSK

50 RB / 0 RB Offset

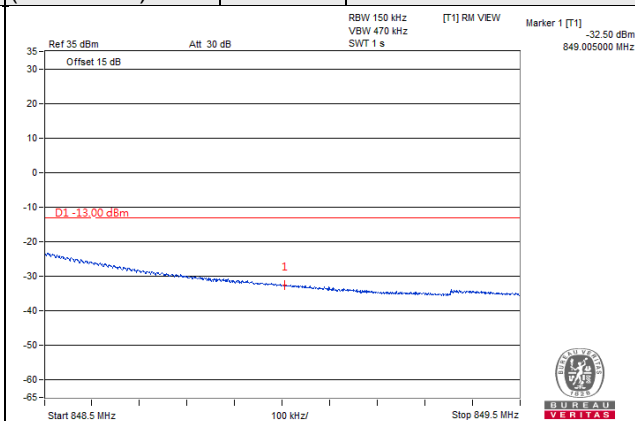
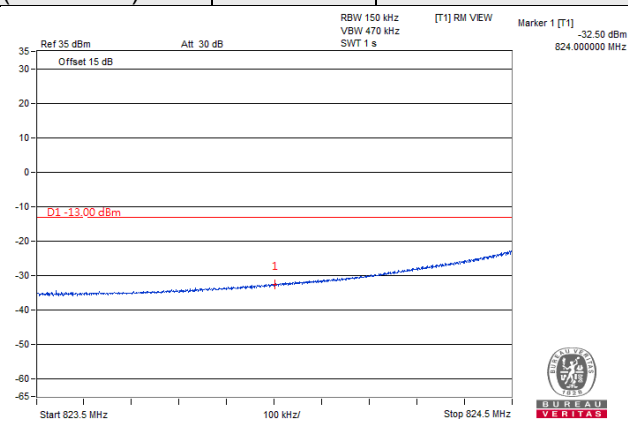


Channel Bandwidth 15MHz

Channel 26865 (831.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 26965 (841.5MHz)	QPSK	1 RB / 74 RB Offset
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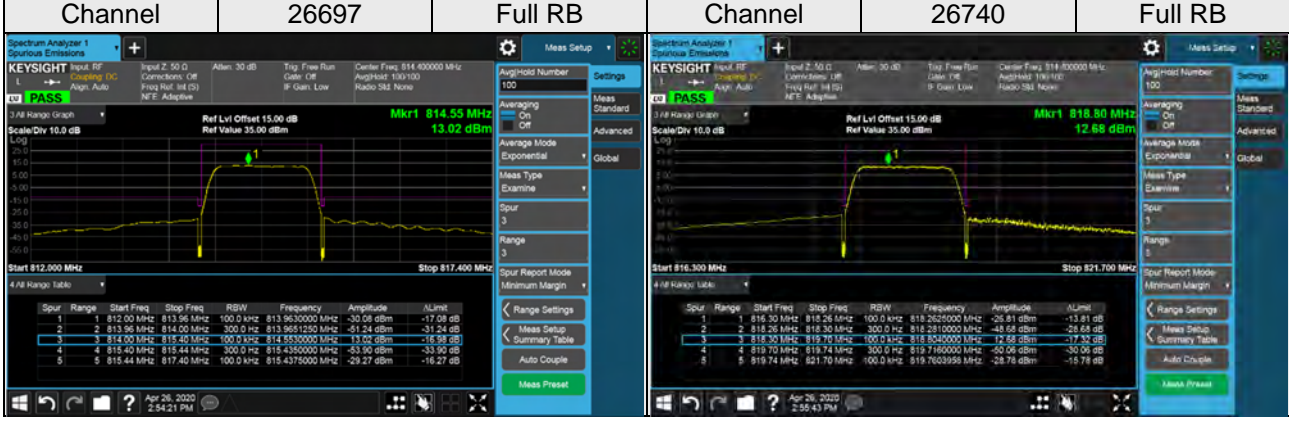
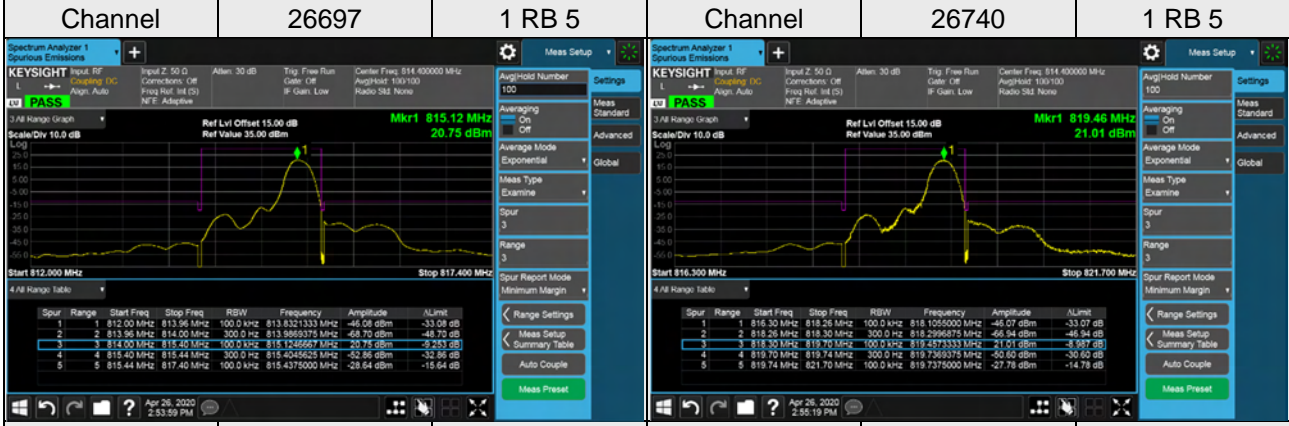
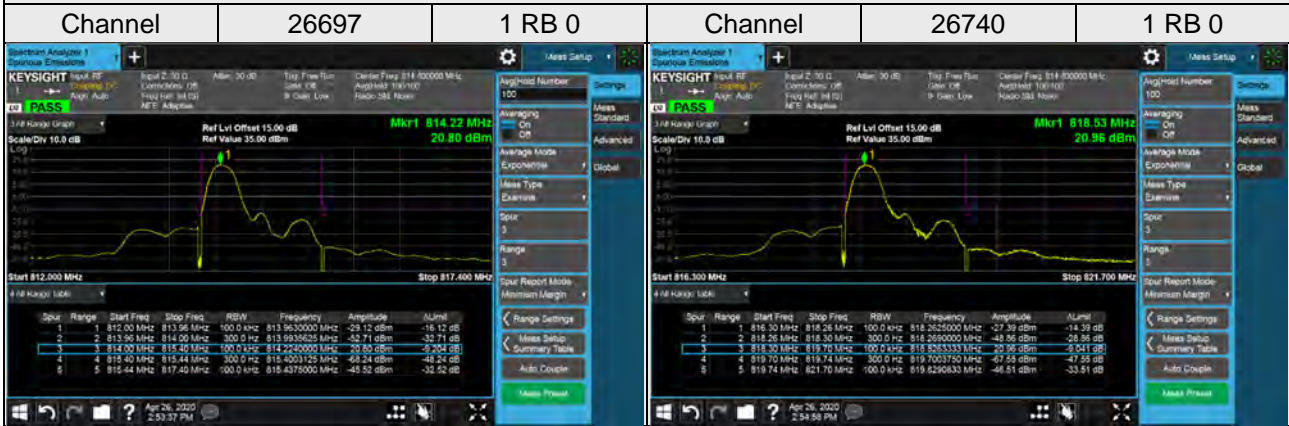


Channel 26865 (831.5MHz)	QPSK	75 RB / 0 RB Offset	Channel 26965 (841.5MHz)	QPSK	75 RB / 0 RB Offset
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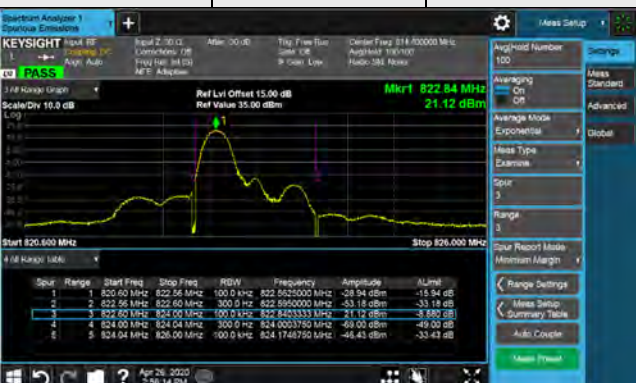

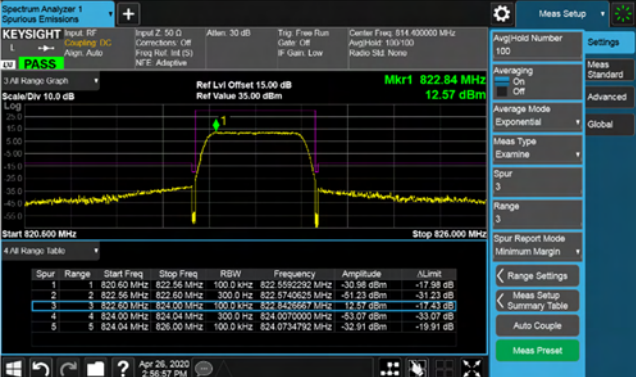
LTE Band 26 (Part 90)

Channel Bandwidth: 1.4 MHz / QPSK



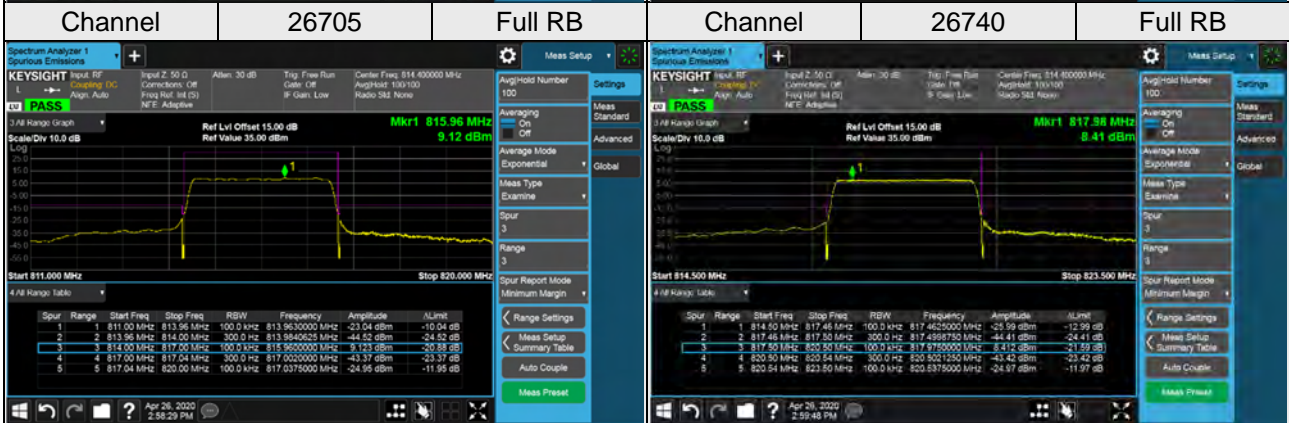
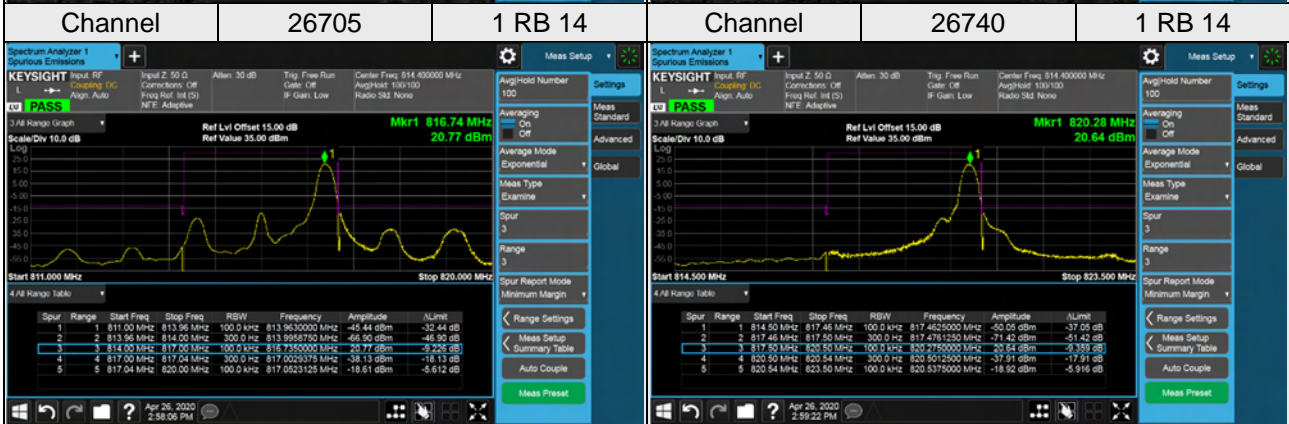
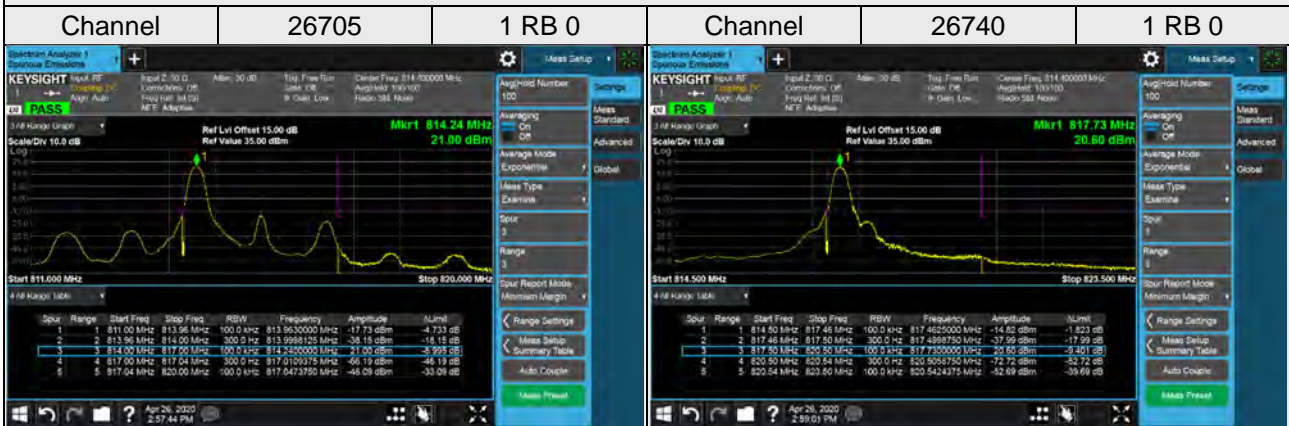
LTE Band 26 (Part 90)

Channel Bandwidth: 1.4 MHz / QPSK

Channel	26783	1 RB 0																																																		
 <table border="1"> <thead> <tr> <th>Spur</th> <th>Range</th> <th>Start Freq</th> <th>Stop Freq</th> <th>RBW</th> <th>Frequency</th> <th>Amplitude</th> <th>ULimit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1</td> <td>820.60 MHz</td> <td>822.56 MHz</td> <td>100.0 kHz</td> <td>822.562500 MHz</td> <td>-38.94 dBm</td> <td>-15.94 dB</td> </tr> <tr> <td>2</td> <td>2</td> <td>822.56 MHz</td> <td>822.60 MHz</td> <td>300.0 Hz</td> <td>822.592000 MHz</td> <td>-51.18 dBm</td> <td>-33.14 dB</td> </tr> <tr> <td>3</td> <td>3</td> <td>824.00 MHz</td> <td>824.00 MHz</td> <td>100.0 kHz</td> <td>824.003333 MHz</td> <td>21.12 dBm</td> <td>-5.80 dB</td> </tr> <tr> <td>4</td> <td>4</td> <td>824.00 MHz</td> <td>824.04 MHz</td> <td>300.0 Hz</td> <td>824.002350 MHz</td> <td>-49.00 dBm</td> <td>-49.00 dB</td> </tr> <tr> <td>5</td> <td>5</td> <td>824.04 MHz</td> <td>826.00 MHz</td> <td>100.0 kHz</td> <td>824.1746750 MHz</td> <td>-46.43 dBm</td> <td>-33.43 dB</td> </tr> </tbody> </table>					Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ULimit	1	1	820.60 MHz	822.56 MHz	100.0 kHz	822.562500 MHz	-38.94 dBm	-15.94 dB	2	2	822.56 MHz	822.60 MHz	300.0 Hz	822.592000 MHz	-51.18 dBm	-33.14 dB	3	3	824.00 MHz	824.00 MHz	100.0 kHz	824.003333 MHz	21.12 dBm	-5.80 dB	4	4	824.00 MHz	824.04 MHz	300.0 Hz	824.002350 MHz	-49.00 dBm	-49.00 dB	5	5	824.04 MHz	826.00 MHz	100.0 kHz	824.1746750 MHz	-46.43 dBm	-33.43 dB
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ULimit																																													
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Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ULimit																																													
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Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ULimit																																													
1	1	820.60 MHz	822.56 MHz	100.0 kHz	822.5592250 MHz	-30.58 dBm	-17.58 dB																																													
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5	5	824.04 MHz	826.00 MHz	100.0 kHz	824.0734792 MHz	-32.91 dBm	-19.91 dB																																													

LTE Band 26 (Part 90)

Channel Bandwidth: 3 MHz / QPSK



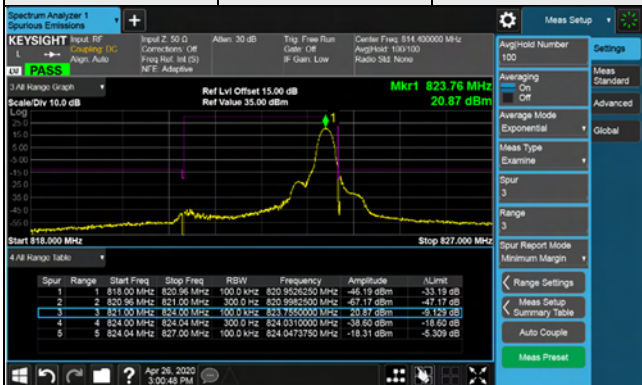
LTE Band 26 (Part 90)

Channel Bandwidth: 3 MHz / QPSK

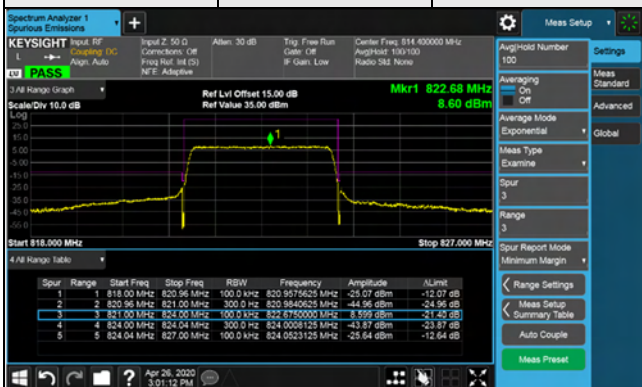
Channel 26775 1 RB 0



Channel 26775 1 RB 14

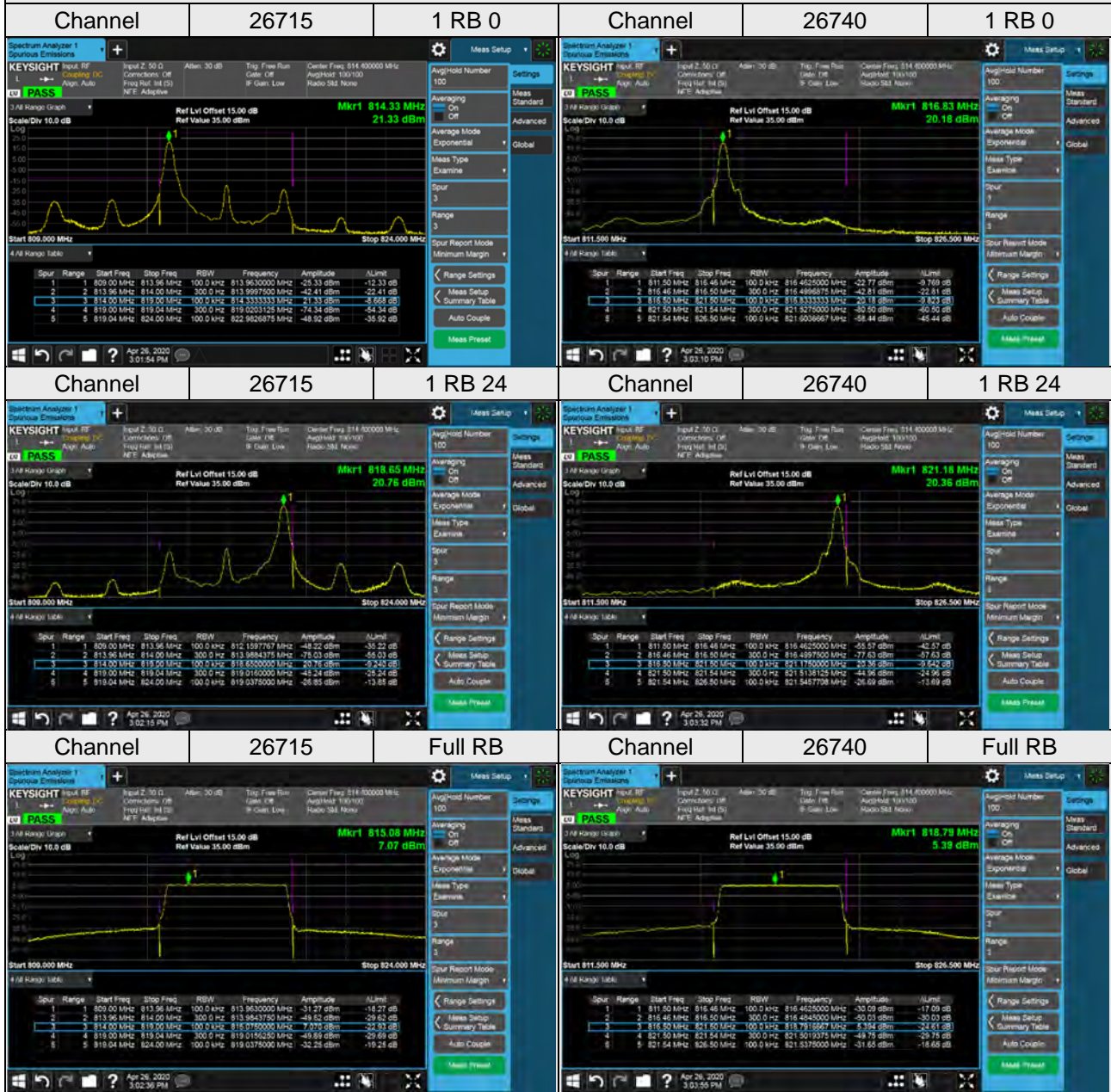


Channel 26775 Full RB



LTE Band 26 (Part 90)

Channel Bandwidth: 5 MHz / QPSK



LTE Band 26 (Part 90)

Channel Bandwidth: 5 MHz / QPSK



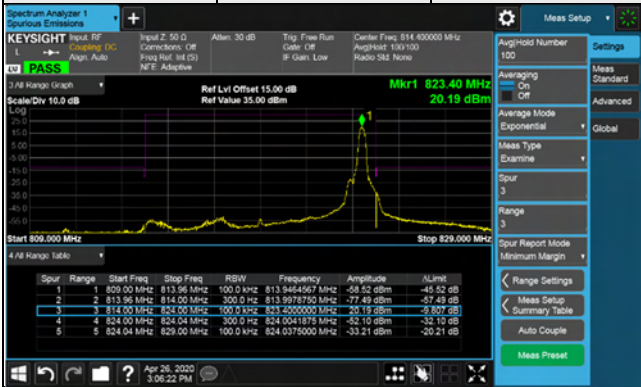
LTE Band 26 (Part 90)

Channel Bandwidth: 10 MHz / QPSK

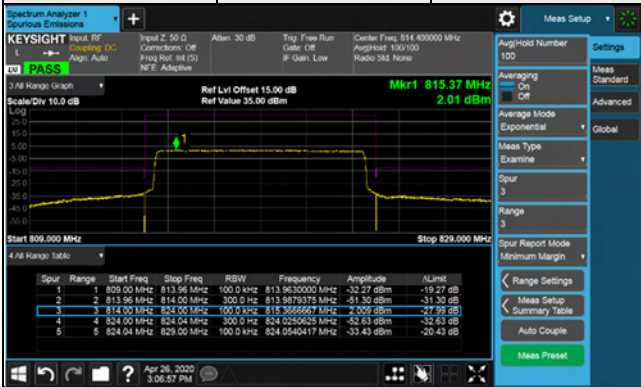
Channel 26740 1 RB 0



Channel 26740 1 RB 49

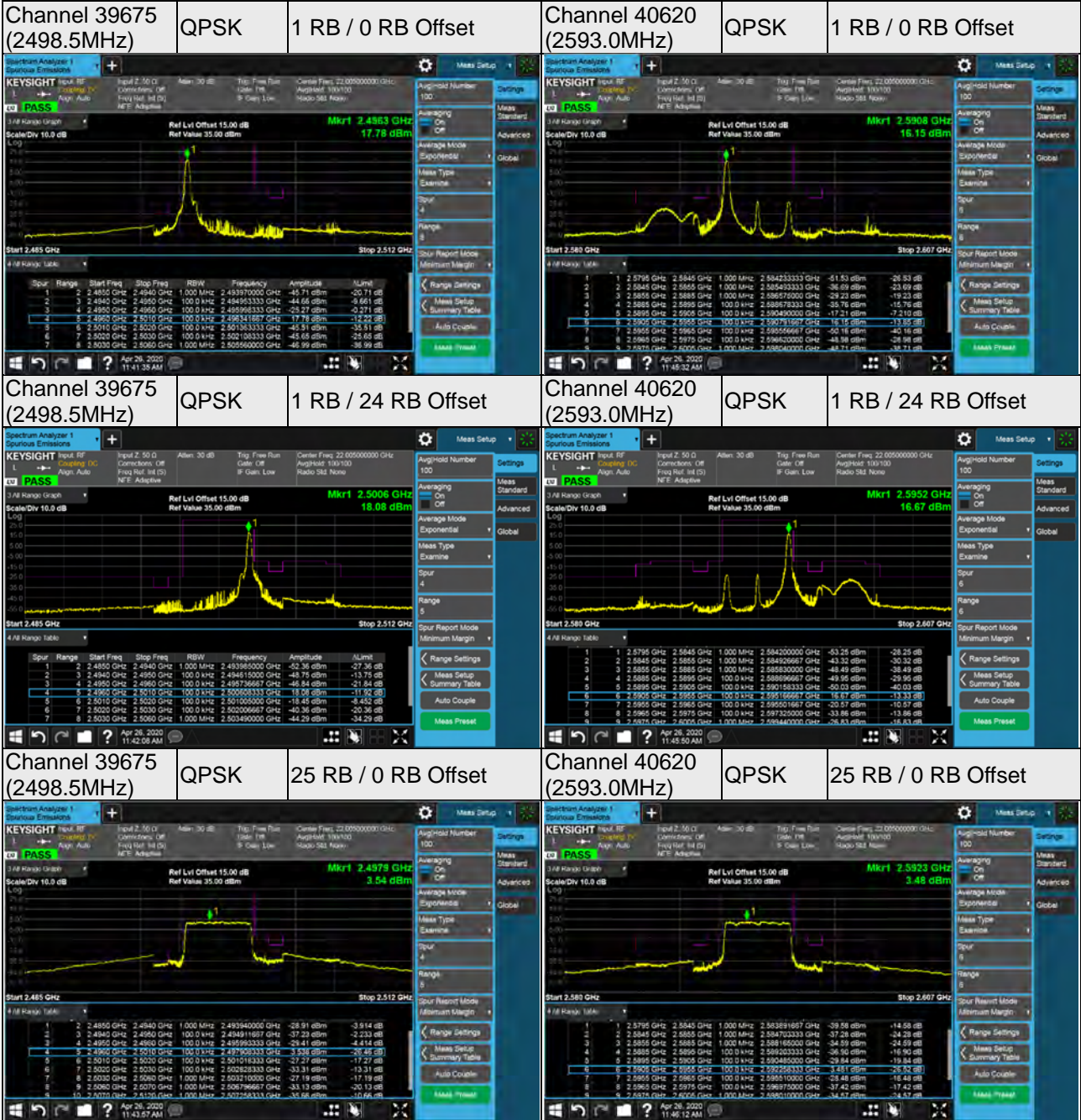


Channel 26740 Full RB



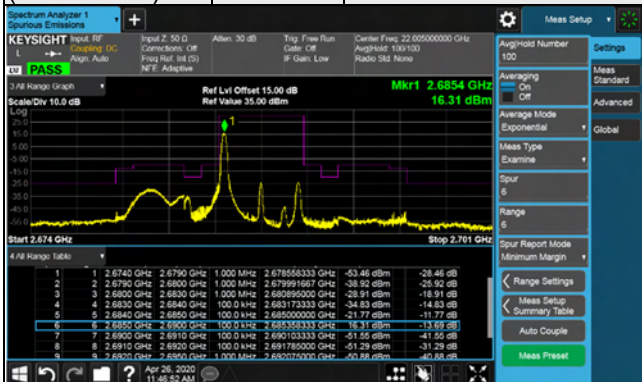
LTE Band 41
Emission Mask:

Channel Bandwidth: 5MHz



Channel Bandwidth: 5MHz

Channel 41565 (2687.5MHz) QPSK 1 RB / 0 RB Offset



Channel 41565 (2687.5MHz) QPSK 1 RB / 24 RB Offset



Channel 41565 (2687.5MHz) QPSK 25 RB / 0 RB Offset



LTE Band 41

Channel Bandwidth: 10MHz

Channel 39700
(2501.0MHz)

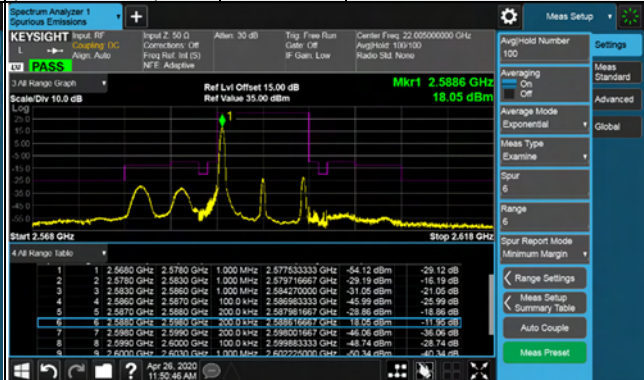
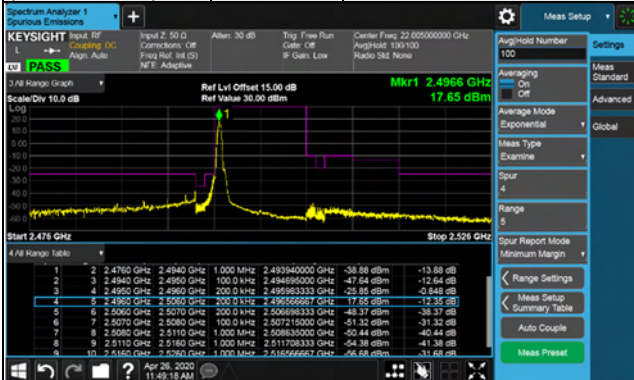
QPSK

1 RB / 0 RB Offset

Channel 40620
(2593.0MHz)

QPSK

1 RB / 0 RB Offset



Channel 39700
(2501.0MHz)

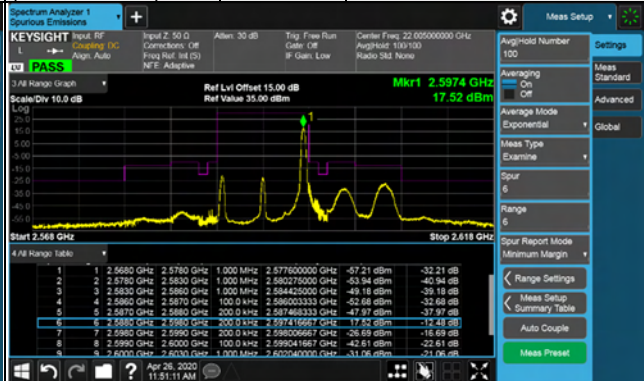
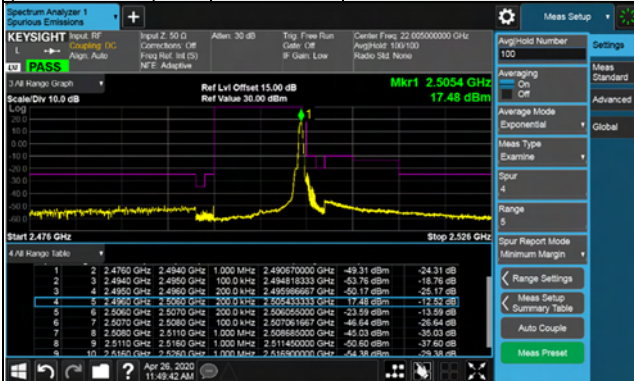
QPSK

1 RB / 49 RB Offset

Channel 40620
(2593.0MHz)

QPSK

1 RB / 49 RB Offset



Channel 39700
(2501.0MHz)

QPSK

50 RB / 0 RB Offset

Channel 40620
(2593.0MHz)

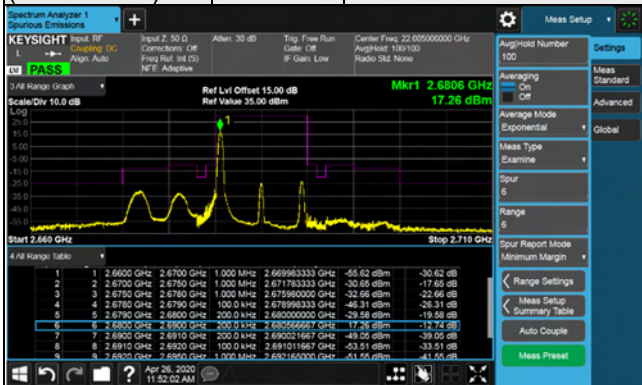
QPSK

50 RB / 0 RB Offset

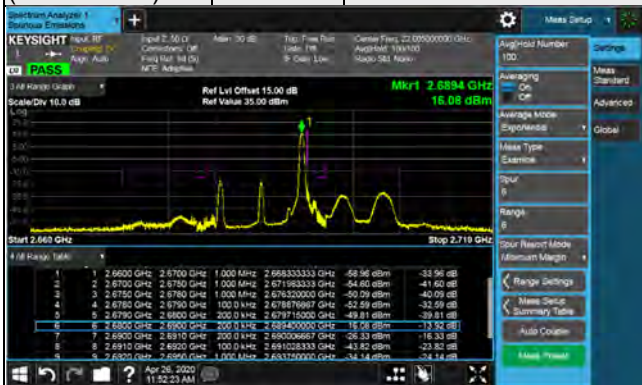


Channel Bandwidth: 10MHz

Channel 41540 (2685.0MHz) QPSK 1 RB / 0 RB Offset



Channel 41540 (2685.0MHz) QPSK 1 RB / 49 RB Offset



Channel 41540 (2685.0MHz) QPSK 50 RB / 0 RB Offset



LTE Band 41

Channel Bandwidth: 15MHz

Channel 39725 (2503.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 40620 (2593.0MHz)	QPSK	1 RB / 0 RB Offset
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Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ALimit
1	2	2.4960 GHz	2.4950 GHz	1.000 MHz	2.495000000 GHz	-29.65 dBm	-4.648 dB
2	4	2.4960 GHz	2.4960 GHz	300.0 kHz	2.495833333 GHz	-30.33 dBm	-5.332 dB
3	2	2.4960 GHz	2.5110 GHz	300.0 kHz	2.496300000 GHz	-17.81 dBm	-12.35 dB
4	6	2.5110 GHz	2.5120 GHz	300.0 kHz	2.511000000 GHz	-49.74 dBm	-59.74 dB
5	8	2.5120 GHz	2.5160 GHz	1.000 MHz	2.512000000 GHz	-44.52 dBm	-44.52 dB
6	9	2.5160 GHz	2.5260 GHz	1.000 MHz	2.516000000 GHz	-44.99 dBm	-44.99 dB
7	10	2.5260 GHz	2.5410 GHz	1.000 MHz	2.531750000 GHz	-52.16 dBm	-27.16 dB

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ALimit
1	1	2.5855 GHz	2.5705 GHz	1.000 MHz	2.565000000 GHz	-50.28 dBm	-35.28 dB
2	2	2.5705 GHz	2.5805 GHz	1.000 MHz	2.572800000 GHz	-31.84 dBm	-16.84 dB
3	3	2.5805 GHz	2.5845 GHz	1.000 MHz	2.584500000 GHz	-29.87 dBm	-19.87 dB
4	4	2.5845 GHz	2.5855 GHz	300.0 kHz	2.584716667 GHz	-29.93 dBm	-19.93 dB
5	6	2.5855 GHz	2.6005 GHz	300.0 kHz	2.589500000 GHz	-18.14 dBm	-11.94 dB
6	7	2.6005 GHz	2.6015 GHz	300.0 kHz	2.600850000 GHz	-51.53 dBm	-41.53 dB
7	9	2.6015 GHz	2.6055 GHz	1.000 MHz	2.601840000 GHz	-54.70 dBm	-44.70 dB
8	10	2.6055 GHz	2.6155 GHz	1.000 MHz	2.609233333 GHz	-55.03 dBm	-45.03 dB
9	11	2.6155 GHz	2.6305 GHz	1.000 MHz	2.629175000 GHz	-47.11 dBm	-27.11 dB

Channel 39725 (2503.5MHz)	QPSK	1 RB / 74 RB Offset	Channel 40620 (2593.0MHz)	QPSK	1 RB / 74 RB Offset
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Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ALimit
1	2	2.4960 GHz	2.4950 GHz	1.000 MHz	2.494400000 GHz	-46.96 dBm	-21.96 dB
2	4	2.4960 GHz	2.4960 GHz	300.0 kHz	2.495200000 GHz	-52.90 dBm	-27.90 dB
3	2	2.4960 GHz	2.5110 GHz	300.0 kHz	2.510700000 GHz	-17.82 dBm	-12.35 dB
4	6	2.5110 GHz	2.5120 GHz	300.0 kHz	2.511366667 GHz	-25.17 dBm	-15.17 dB
5	8	2.5120 GHz	2.5160 GHz	1.000 MHz	2.512000000 GHz	-30.48 dBm	-20.48 dB
6	9	2.5160 GHz	2.5260 GHz	1.000 MHz	2.516166667 GHz	-50.00 dBm	-37.00 dB
7	10	2.5260 GHz	2.5410 GHz	1.000 MHz	2.529750000 GHz	-49.07 dBm	-24.07 dB

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ALimit
1	1	2.5855 GHz	2.5705 GHz	1.000 MHz	2.565000000 GHz	-51.41 dBm	-36.41 dB
2	2	2.5705 GHz	2.5805 GHz	1.000 MHz	2.579766667 GHz	-52.79 dBm	-37.79 dB
3	3	2.5805 GHz	2.5845 GHz	1.000 MHz	2.583250000 GHz	-54.10 dBm	-44.10 dB
4	4	2.5845 GHz	2.5855 GHz	300.0 kHz	2.585216667 GHz	-48.38 dBm	-38.38 dB
5	6	2.5855 GHz	2.6005 GHz	300.0 kHz	2.589500000 GHz	-17.78 dBm	-11.23 dB
6	7	2.6005 GHz	2.6015 GHz	300.0 kHz	2.600316667 GHz	-27.30 dBm	-17.30 dB
7	9	2.6015 GHz	2.6055 GHz	1.000 MHz	2.601000000 GHz	-29.78 dBm	-19.78 dB
8	10	2.6055 GHz	2.6155 GHz	1.000 MHz	2.612866667 GHz	-30.32 dBm	-17.32 dB
9	11	2.6155 GHz	2.6305 GHz	1.000 MHz	2.631675000 GHz	-48.71 dBm	-28.71 dB

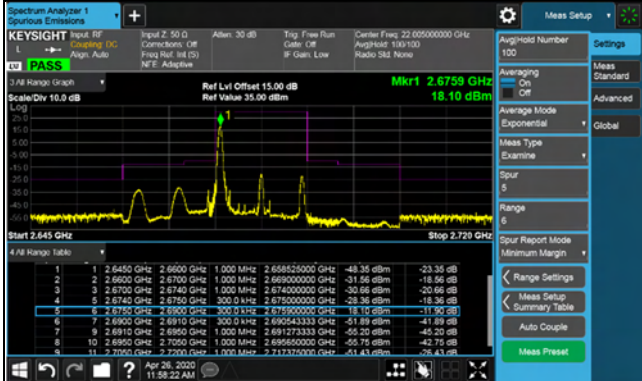
Channel 39725 (2503.5MHz)	QPSK	75 RB / 0 RB Offset	Channel 40620 (2593.0MHz)	QPSK	75 RB / 0 RB Offset
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Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ALimit
1	2	2.4960 GHz	2.4950 GHz	1.000 MHz	2.491733333 GHz	-29.97 dBm	-4.968 dB
2	4	2.4960 GHz	2.4960 GHz	300.0 kHz	2.491666667 GHz	-32.82 dBm	-7.816 dB
3	2	2.4960 GHz	2.5110 GHz	300.0 kHz	2.498300000 GHz	-13.49 dBm	-26.45 dB
4	6	2.5110 GHz	2.5120 GHz	300.0 kHz	2.511100000 GHz	-31.93 dBm	-21.93 dB
5	8	2.5120 GHz	2.5160 GHz	1.000 MHz	2.512000000 GHz	-35.45 dBm	-20.45 dB
6	9	2.5160 GHz	2.5260 GHz	1.000 MHz	2.516333333 GHz	-31.65 dBm	-19.65 dB
7	10	2.5260 GHz	2.5410 GHz	1.000 MHz	2.527450000 GHz	-54.76 dBm	-9.756 dB

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ALimit
1	1	2.5855 GHz	2.5705 GHz	1.000 MHz	2.570300000 GHz	-39.16 dBm	-14.16 dB
2	2	2.5705 GHz	2.5805 GHz	1.000 MHz	2.580016667 GHz	-38.34 dBm	-26.34 dB
3	3	2.5805 GHz	2.5845 GHz	1.000 MHz	2.582000000 GHz	-38.44 dBm	-26.44 dB
4	4	2.5845 GHz	2.5855 GHz	300.0 kHz	2.584966667 GHz	-54.30 dBm	-24.32 dB
5	6	2.5855 GHz	2.6005 GHz	300.0 kHz	2.589450000 GHz	-37.92 dBm	-26.43 dB
6	7	2.6005 GHz	2.6015 GHz	300.0 kHz	2.600450000 GHz	-55.97 dBm	-25.97 dB
7	9	2.6015 GHz	2.6055 GHz	1.000 MHz	2.601700000 GHz	-55.82 dBm	-25.82 dB
8	10	2.6055 GHz	2.6155 GHz	1.000 MHz	2.602783333 GHz	-37.36 dBm	-24.36 dB
9	11	2.6155 GHz	2.6305 GHz	1.000 MHz	2.631250000 GHz	-41.14 dBm	-15.14 dB

Channel Bandwidth: 15MHz

Channel 41515 (2682.5MHz)	QPSK	1 RB / 0 RB Offset			
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Channel 41515 (2682.5MHz)	QPSK	1 RB / 74 RB Offset			
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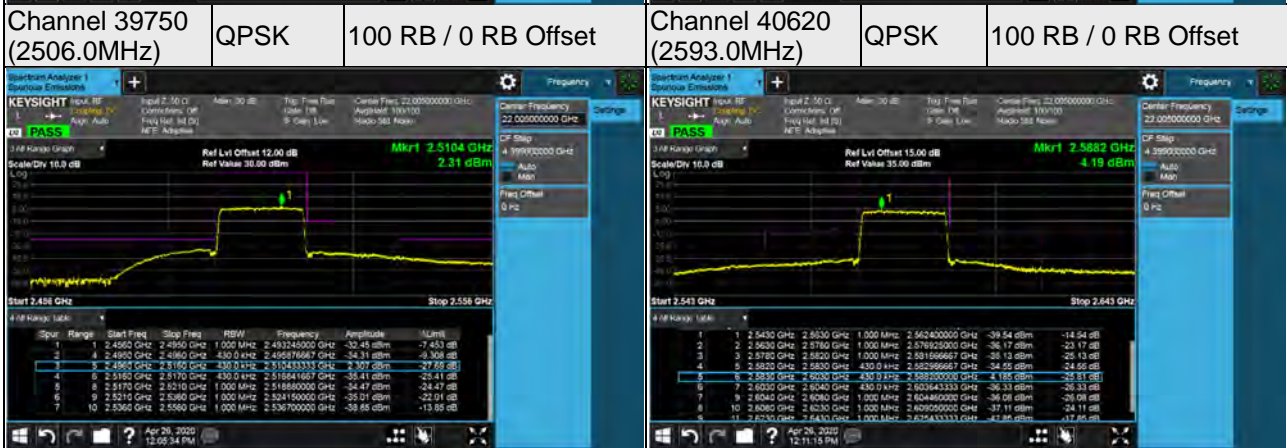
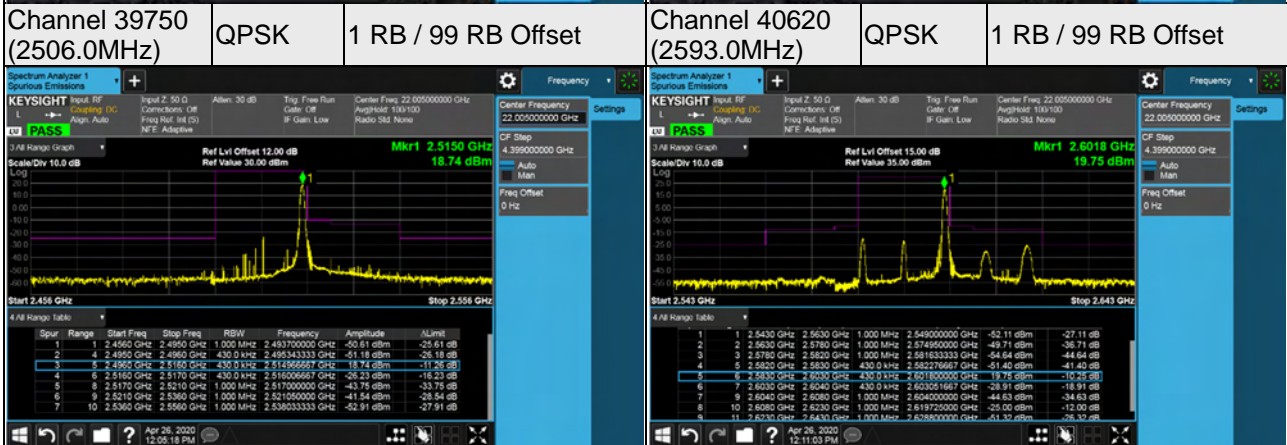
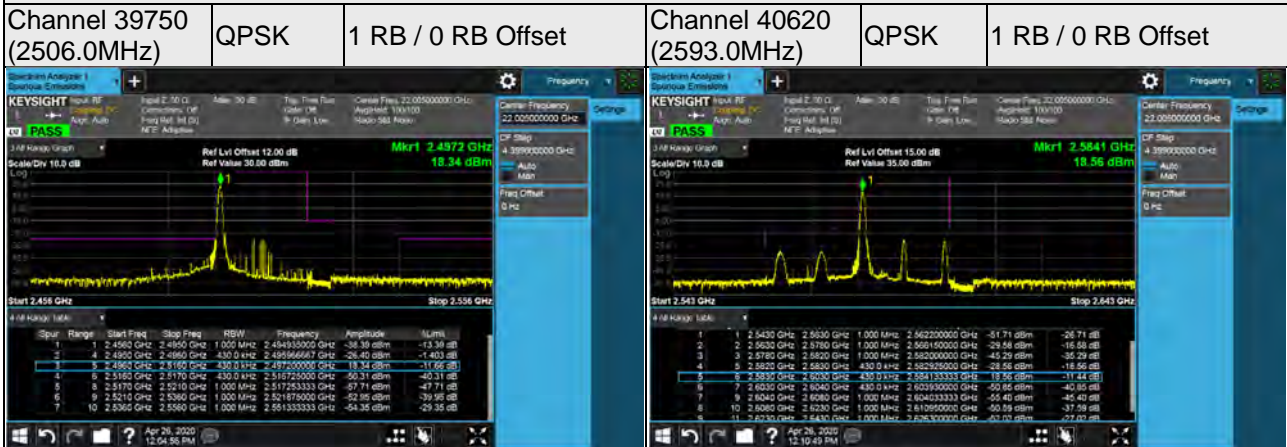


Channel 41515 (2682.5MHz)	QPSK	75 RB / 0 RB Offset			
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LTE Band 41

Channel Bandwidth: 20MHz

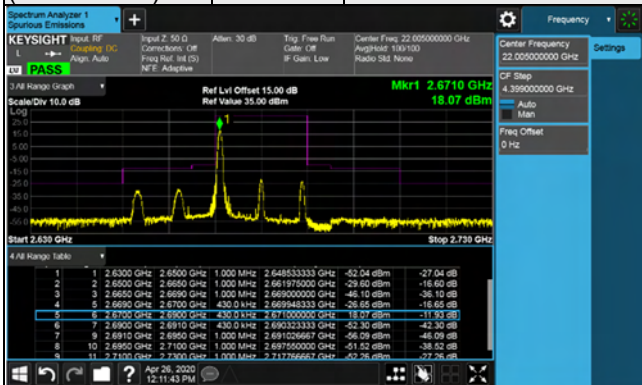


Channel Bandwidth: 20MHz

Channel 41490
(2680.0MHz)

QPSK

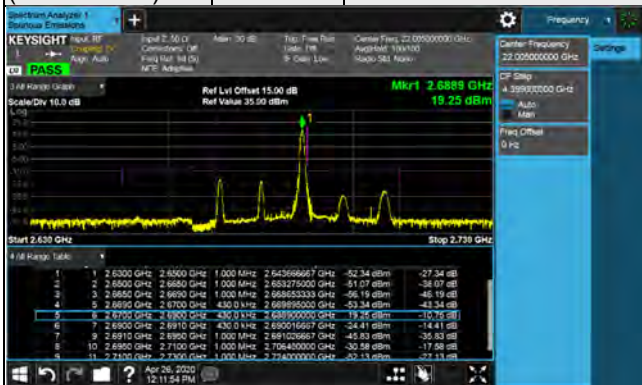
1 RB / 0 RB Offset



Channel 41490
(2680.0MHz)

QPSK

1 RB / 99 RB Offset



Channel 41490
(2680.0MHz)

QPSK

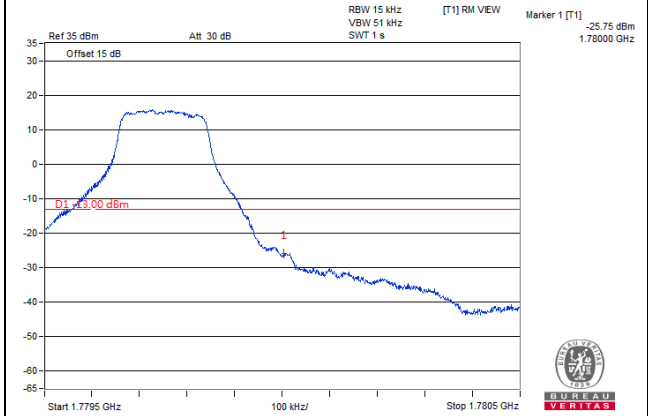
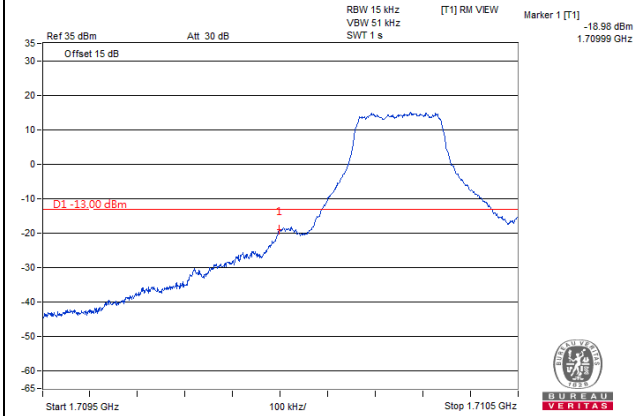
100 RB / 0 RB Offset



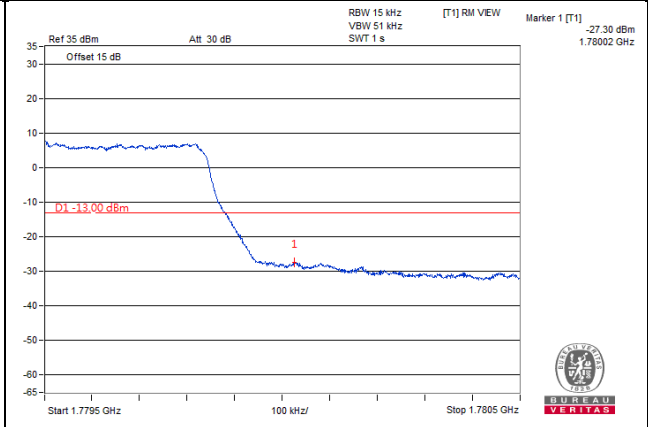
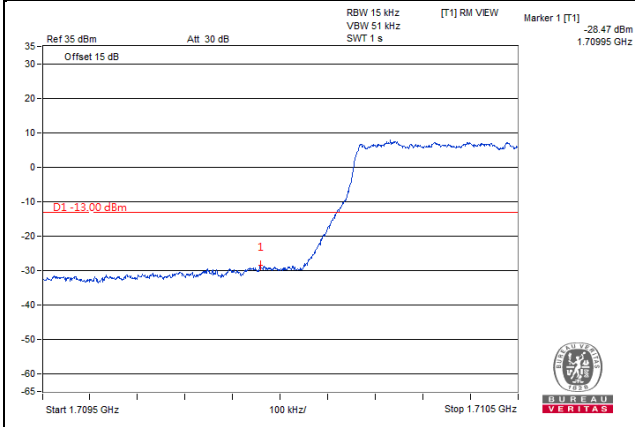
LTE Band 66

Channel Bandwidth: 1.4MHz

Channel 131979 (1710.7MHz)	QPSK	1 RB / 0 RB Offset	Channel 132665 (1779.3MHz)	QPSK	1 RB / 5 RB Offset
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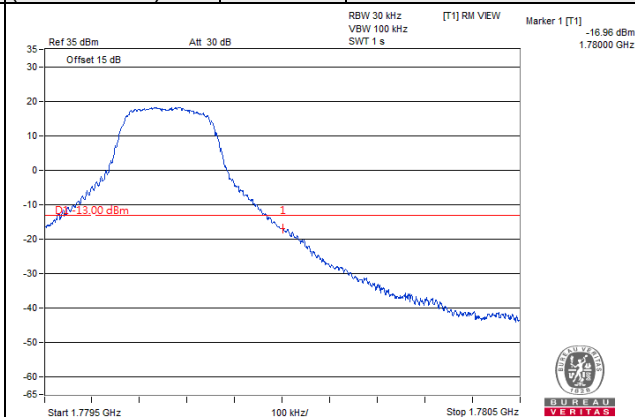
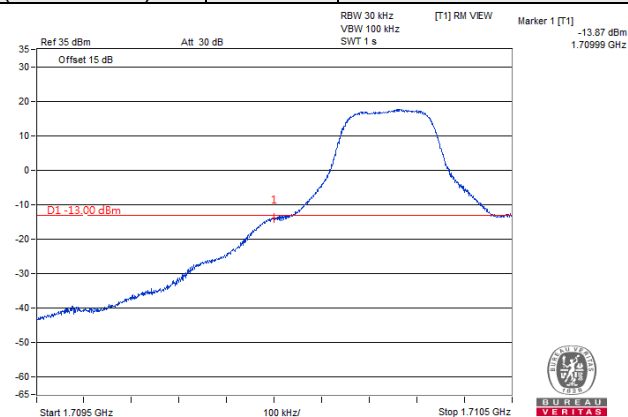


Channel 131979 (1710.7MHz)	QPSK	6 RB / 0 RB Offset	Channel 132665 (1779.3MHz)	QPSK	6 RB / 0 RB Offset
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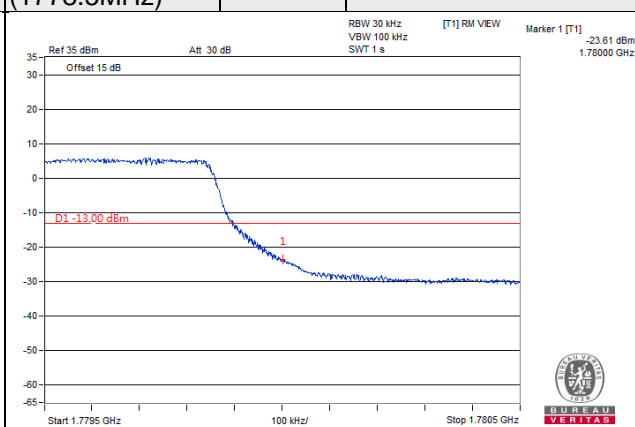
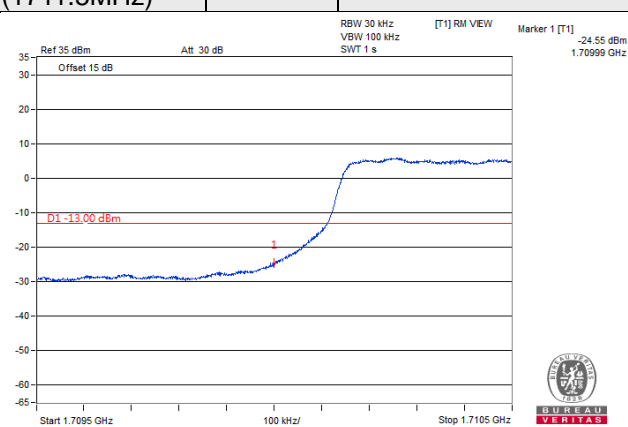


Channel Bandwidth: 3MHz

Channel 131987 (1711.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 132657 (1778.5MHz)	QPSK	1 RB / 14 RB Offset
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Channel 131987 (1711.5MHz)	QPSK	15 RB / 0 RB Offset	Channel 132657 (1778.5MHz)	QPSK	15 RB / 0 RB Offset
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Channel Bandwidth: 5MHz

**Channel 131997
(1712.5MHz)**

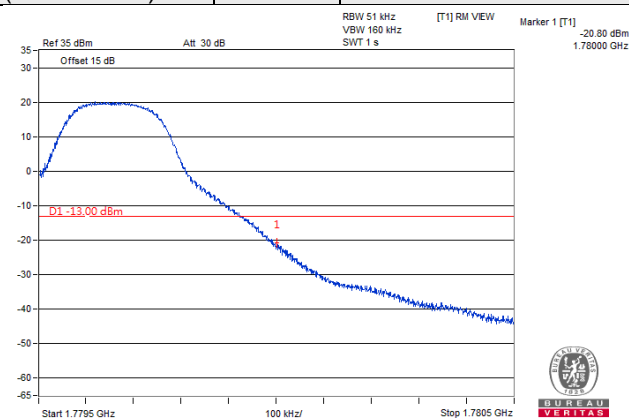
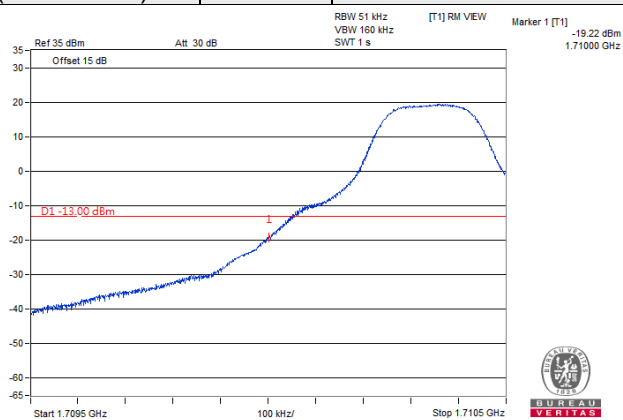
QPSK

1 RB / 0 RB Offset

**Channel 132647
(1777.5MHz)**

QPSK

1 RB / 24 RB Offset



**Channel 131997
(1712.5MHz)**

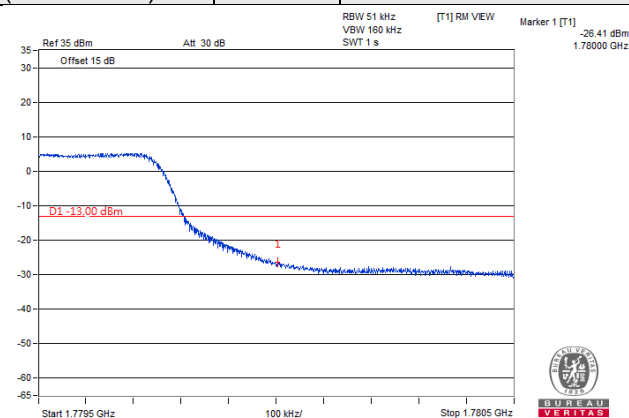
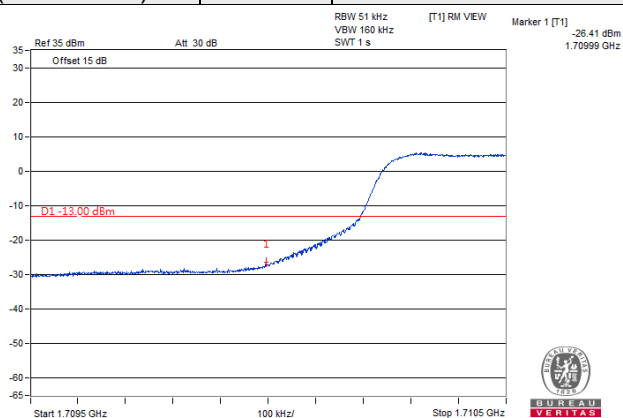
QPSK

25 RB / 0 RB Offset

**Channel 132647
(1777.5MHz)**

QPSK

25 RB / 0 RB Offset



Channel Bandwidth: 10MHz

Channel 132022
(1715.0MHz)

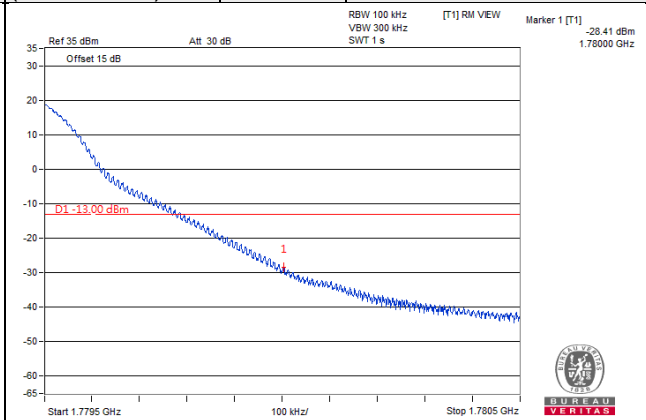
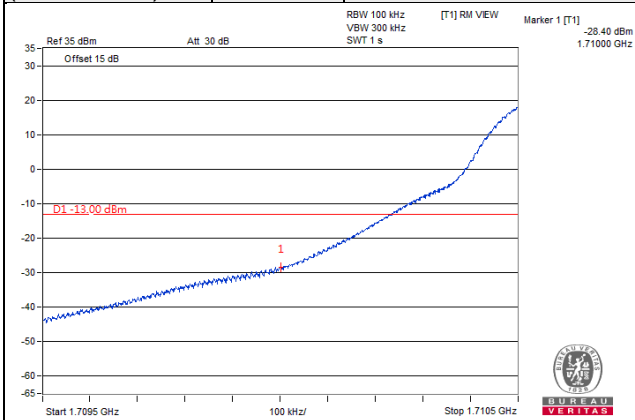
QPSK

1 RB / 0 RB Offset

Channel 132622
(1775.0MHz)

QPSK

1 RB / 49 RB Offset



Channel 132022
(1715.0MHz)

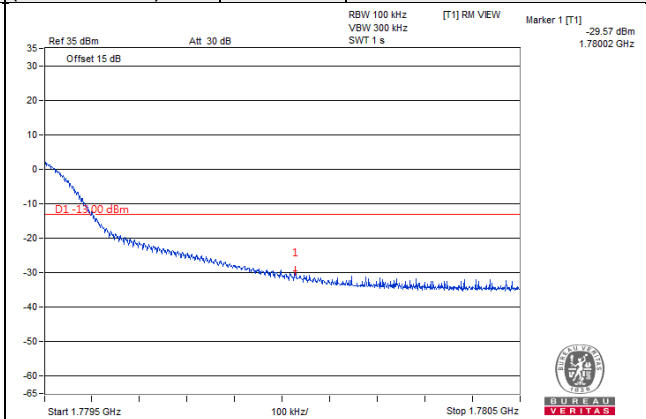
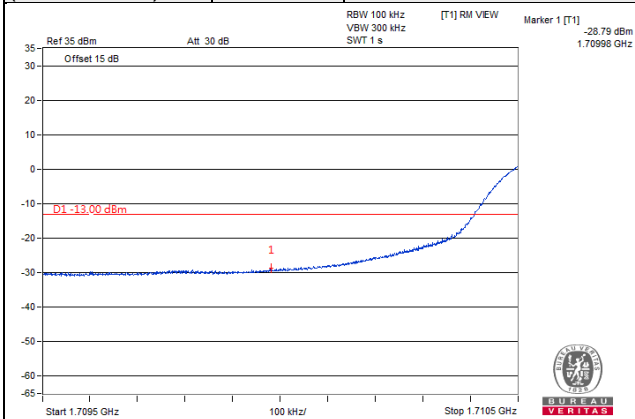
QPSK

50 RB / 0 RB Offset

Channel 132622
(1775.0MHz)

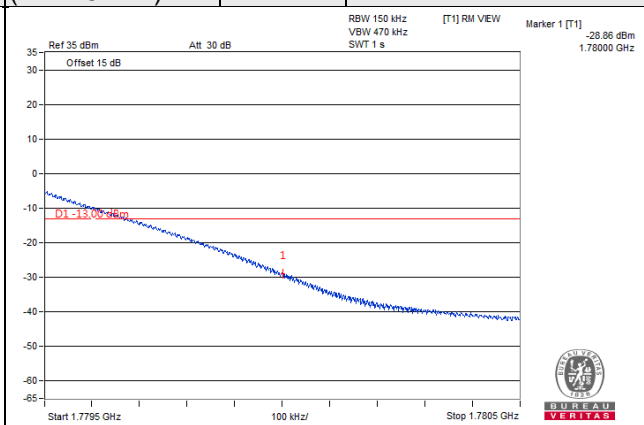
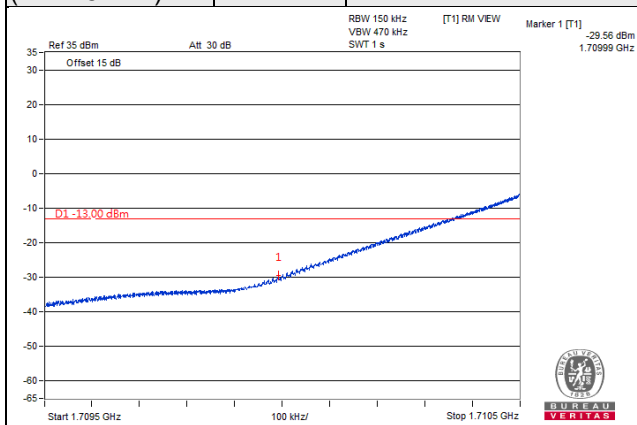
QPSK

50 RB / 0 RB Offset

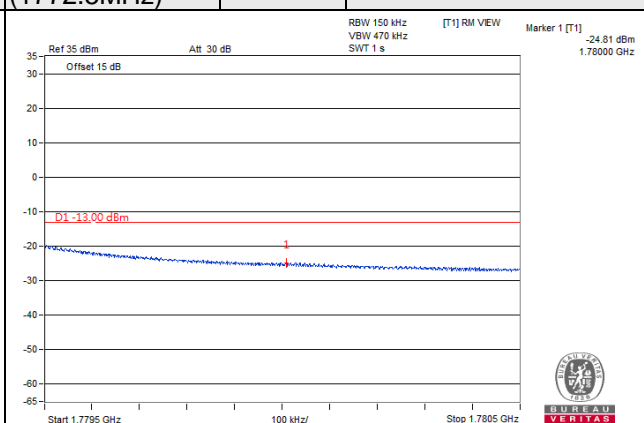
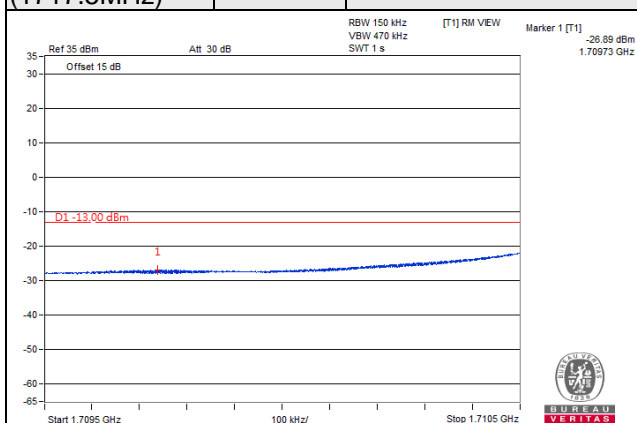


Channel Bandwidth: 15MHz

Channel 132047 (1717.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 132597 (1772.5MHz)	QPSK	1 RB / 74 RB Offset
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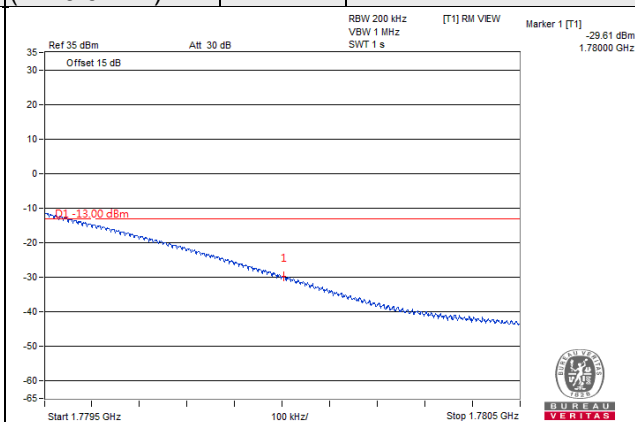
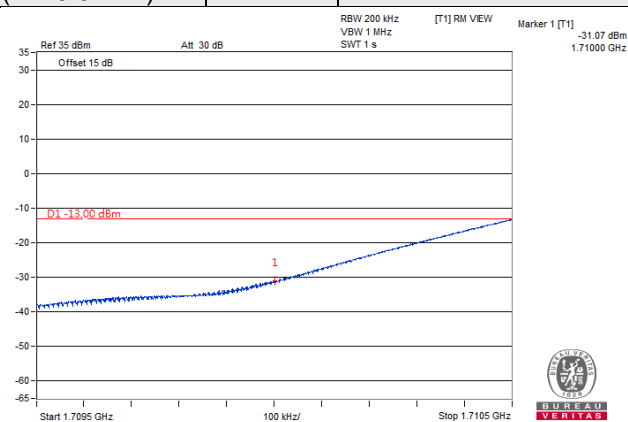


Channel 132047 (1717.5MHz)	QPSK	75 RB / 0 RB Offset	Channel 132597 (1772.5MHz)	QPSK	75 RB / 0 RB Offset
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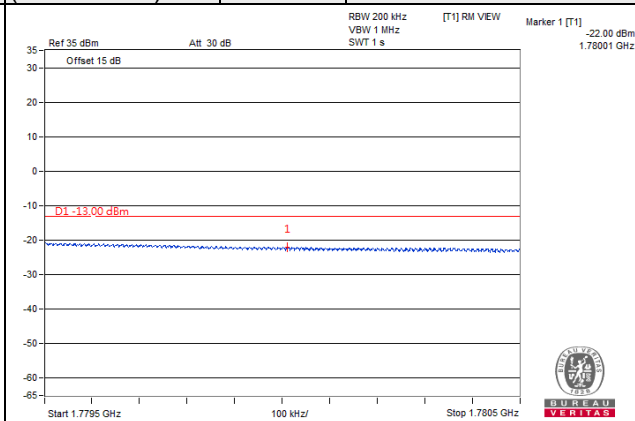
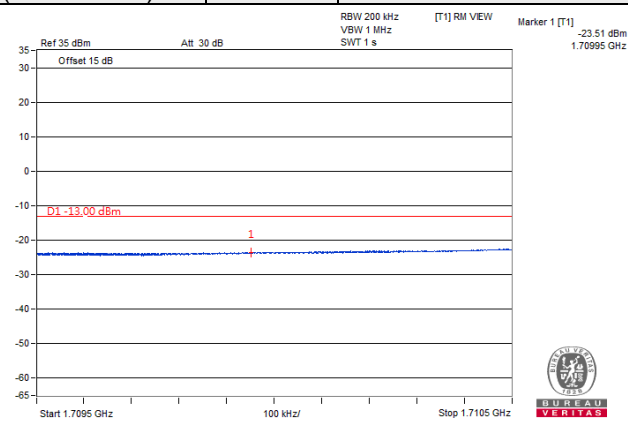


Channel Bandwidth: 20MHz

Channel 132072 (1720.0MHz)	QPSK	1 RB / 0 RB Offset	Channel 132572 (1770.0MHz)	QPSK	1 RB / 99 RB Offset
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Channel 132072 (1720.0MHz)	QPSK	100 RB / 0 RB Offset	Channel 132572 (1770.0MHz)	QPSK	100 RB / 0 RB Offset
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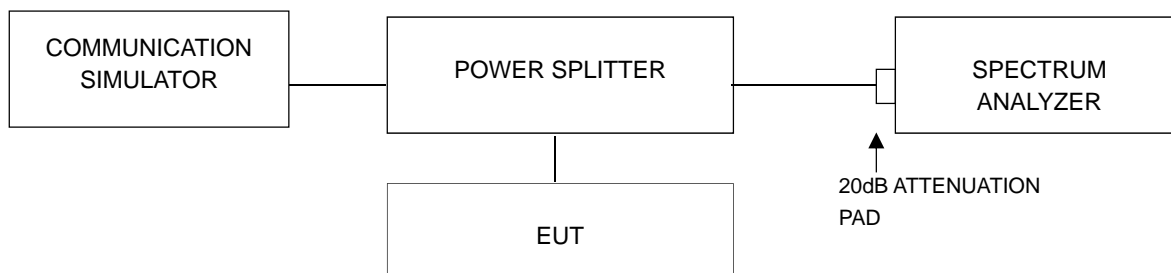


4.6 Peak to Average Ratio

4.6.1 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

4.6.2 Test Setup



4.6.3 Test Procedures

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

4.6.4 Test Results

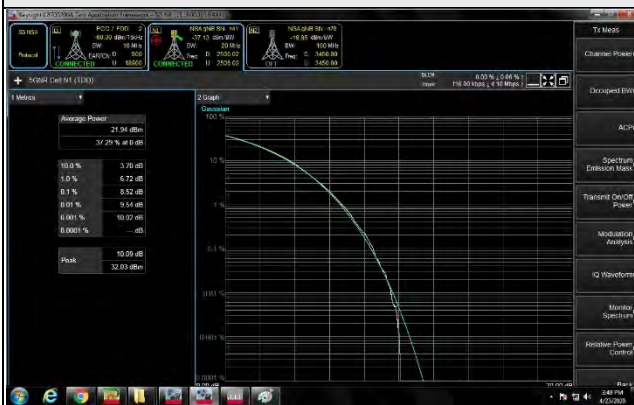
n41

n41, Channel Bandwidth 20MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
501204	2506.02	4.40	5.02	6.18	6.13	8.52
518598	2592.99	4.89	5.76	6.49	6.51	8.36
535998	2679.99	4.32	6.03	6.78	6.66	8.44
n41, Channel Bandwidth 40MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
503202	2516.01	4.34	6.68	6.63	6.91	8.46
518598	2592.99	4.92	6.80	6.81	7.18	8.65
534000	2670.00	4.43	6.73	6.79	7.29	8.43
n41, Channel Bandwidth 50MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
504204	2521.02	4.57	5.45	5.53	5.70	8.34
518598	2592.99	4.94	6.46	6.96	7.35	8.48
532998	2664.99	5.12	6.39	6.82	7.24	8.60
n41, Channel Bandwidth 60MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
505200	2526.00	4.66	6.99	7.05	7.44	8.59
518598	2592.99	4.83	6.68	6.70	7.10	8.76
531996	2659.98	4.90	6.67	6.68	7.10	8.51
n41, Channel Bandwidth 80MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
507204	2536.02	6.28	7.24	7.22	7.67	8.38
518598	2592.99	6.83	7.03	6.99	7.50	8.67
529998	2649.99	5.55	6.71	6.70	7.21	8.58

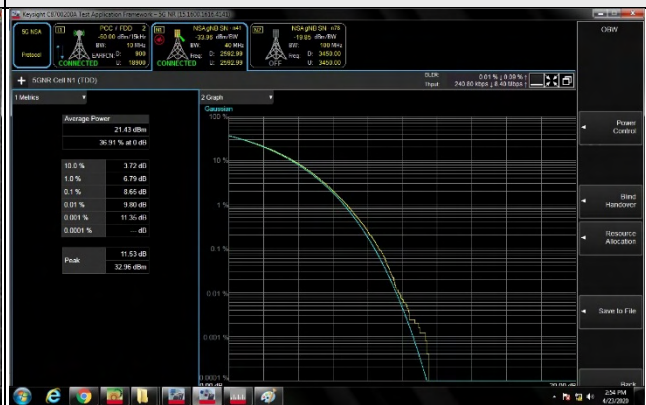
n41, Channel Bandwidth 90MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
508200	2541.00	5.01	7.25	7.35	7.60	8.40
518598	2592.99	4.86	7.07	7.07	7.38	8.55
528996	2644.98	4.93	6.66	6.68	7.15	8.41
n41, Channel Bandwidth 100MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
509202	2546.01	4.34	5.69	6.24	6.38	8.26
518598	2592.99	5.49	6.82	6.85	7.23	8.49
528000	2640.00	5.58	8.04	7.93	8.05	8.65

Spectrum Plot of Worst Value

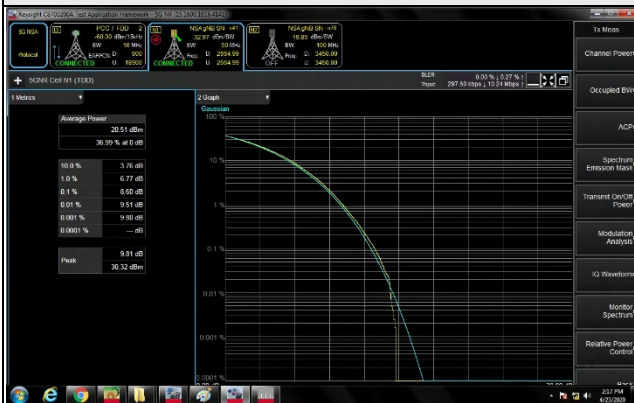
20MHz / 256QAM



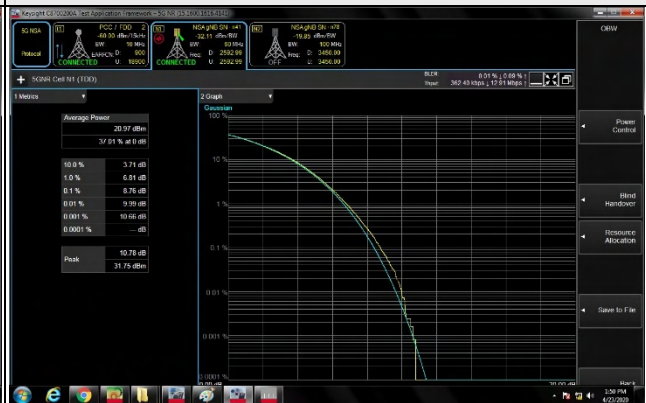
40MHz / 256QAM



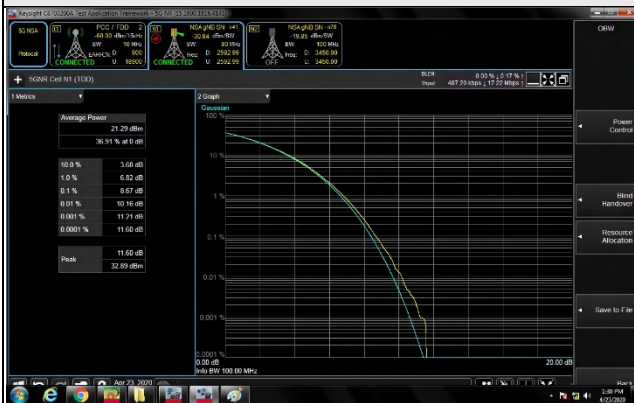
50MHz / 256QAM



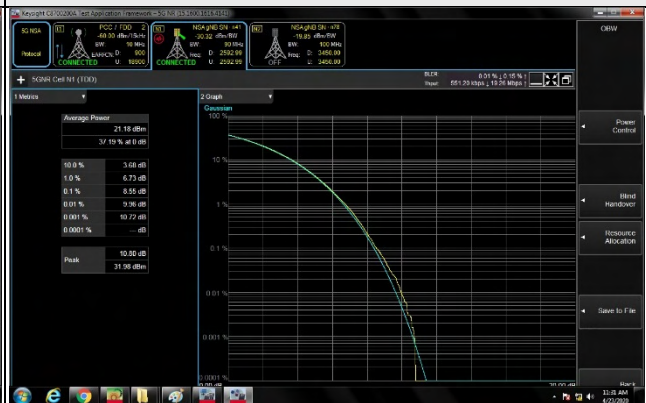
60MHz / 256QAM



80MHz / 256QAM



90MHz / 256QAM



100MHz / 256QAM



LTE Band 2, Channel Bandwidth 1.4MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
18607	1850.7	4.07	5.00	6.43
18900	1880.0	3.91	4.99	6.66
19193	1909.3	3.60	4.33	6.43

LTE Band 2, Channel Bandwidth 3MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
18615	1851.5	3.79	4.87	6.38
18900	1880.0	3.80	4.80	6.69
19185	1908.5	3.55	4.29	6.39

LTE Band 2, Channel Bandwidth 5MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
18625	1852.5	3.74	4.87	6.94
18900	1880.0	3.81	4.56	6.89
19175	1907.5	3.60	4.35	6.50

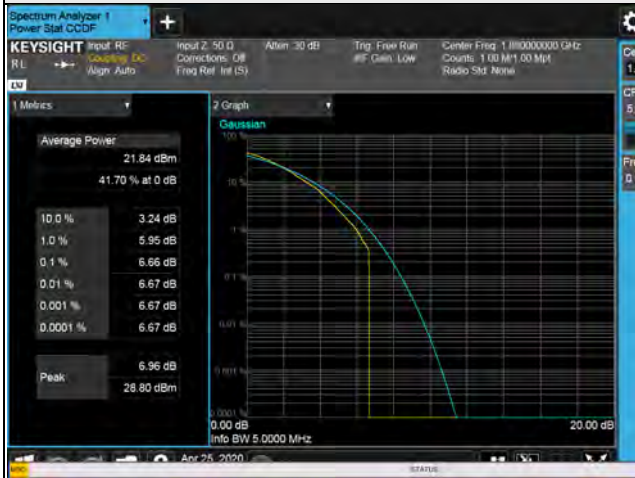
LTE Band 2, Channel Bandwidth 10MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
18650	1855.0	3.97	4.81	7.23
18900	1880.0	3.76	4.56	7.04
19150	1905.0	3.57	4.24	6.33

LTE Band 2, Channel Bandwidth 15MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
18675	1857.5	3.87	4.69	7.11
18900	1880.0	3.90	4.73	7.27
19125	1902.5	3.51	4.20	6.18

LTE Band 2, Channel Bandwidth 20MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
18700	1860.0	3.79	4.60	6.94
18900	1880.0	3.86	4.42	6.74
19100	1900.0	3.66	4.20	6.16

Spectrum Plot of Worst Value

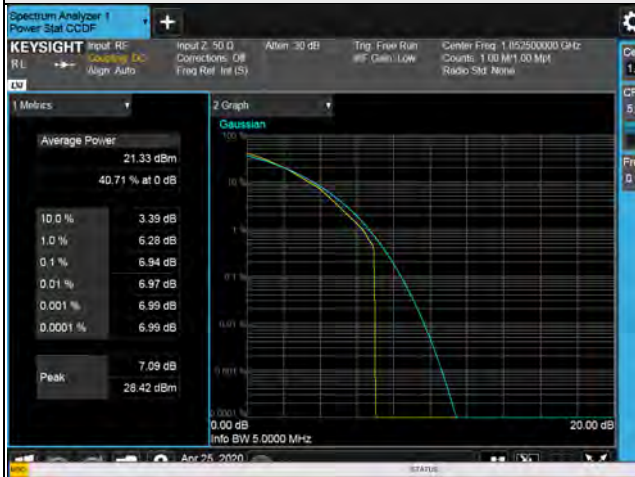
1.4MHz / 64QAM



3MHz / 64QAM



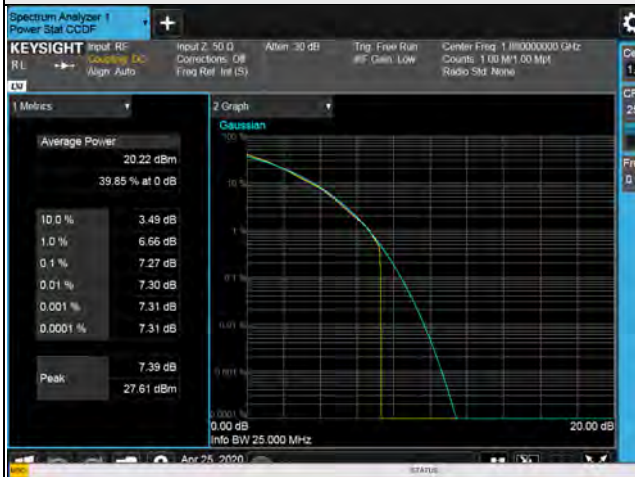
5MHz / 64QAM



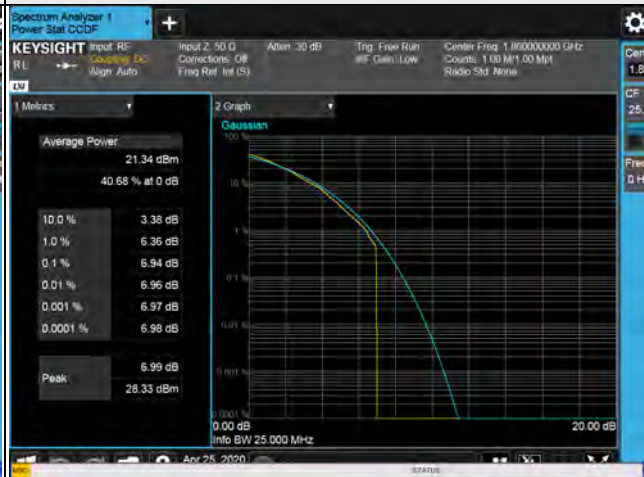
10MHz / 64QAM



15MHz / 64QAM



20MHz / 64QAM



LTE Band 25, Channel Bandwidth 1.4MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
26047	1850.7	3.17	3.84	3.96
26365	1882.5	3.79	4.69	4.84
26683	1914.3	3.31	4.06	4.07

LTE Band 25, Channel Bandwidth 3MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
26055	1851.5	3.18	3.85	4.03
26365	1882.5	3.62	4.81	4.94
26675	1913.5	2.92	3.67	3.65

LTE Band 25, Channel Bandwidth 5MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
26065	1852.5	3.18	3.88	3.81
26365	1882.5	3.57	5.00	5.09
26665	1912.5	2.75	3.50	3.50

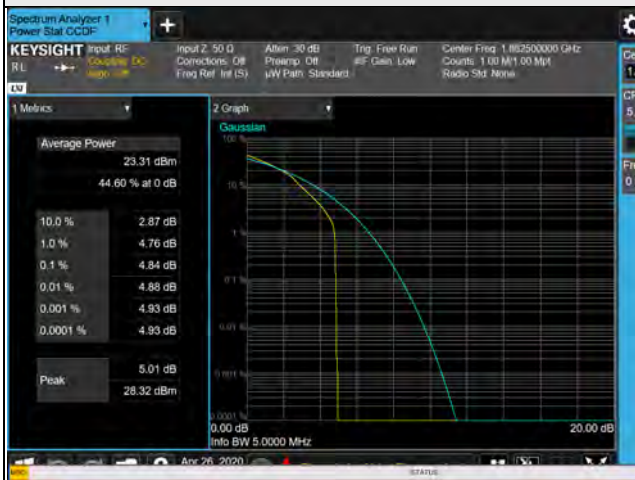
LTE Band 25, Channel Bandwidth 10MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
26090	1855.0	3.27	4.01	4.09
26365	1882.5	3.74	5.35	5.28
26640	1910.0	3.75	4.70	4.68

LTE Band 25, Channel Bandwidth 15MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
26115	1857.5	2.97	3.56	3.58
26365	1882.5	3.69	4.91	5.12
26615	1907.5	3.29	4.13	4.18

LTE Band 25, Channel Bandwidth 20MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
26140	1860.0	2.94	3.67	3.39
26365	1882.5	3.54	4.96	5.13
26590	1905.0	3.37	4.02	4.08

Spectrum Plot of Worst Value

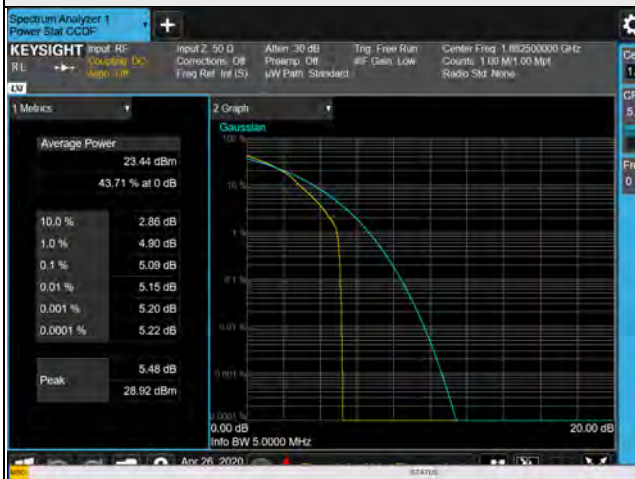
1.4MHz / 64QAM



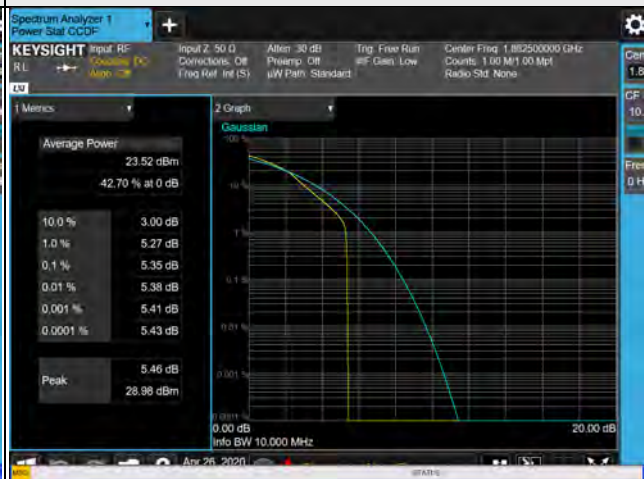
3MHz / 64QAM



5MHz / 64QAM



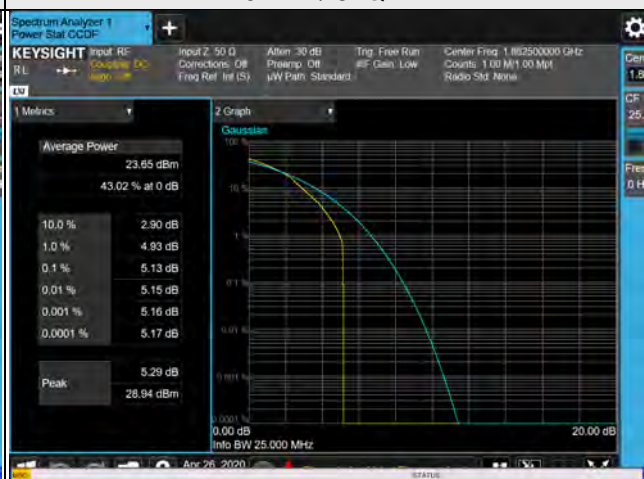
10MHz / 16QAM



15MHz / 64QAM



20MHz / 64QAM

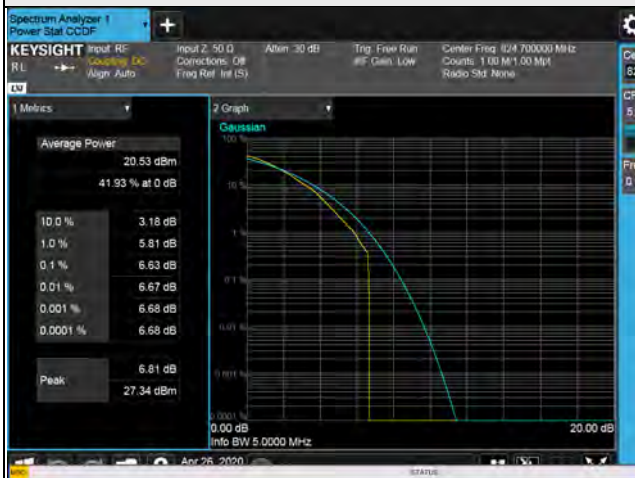


LTE Band 26 (Part 22)

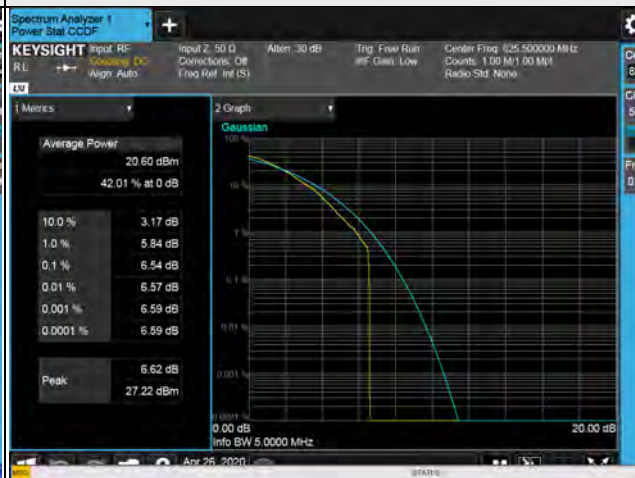
LTE Band 26 (Part 22), Channel Bandwidth 1.4MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
26797	824.7	4.06	4.57	6.63
26915	836.5	3.79	4.83	6.20
27033	848.3	3.48	4.17	6.15
LTE Band 26 (Part 22), Channel Bandwidth 3MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
26805	825.5	3.87	4.52	6.54
26915	836.5	3.67	4.63	6.26
27025	847.5	3.35	4.07	6.00
LTE Band 26 (Part 22), Channel Bandwidth 5MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
26815	826.5	3.68	5.15	6.22
26915	836.5	3.75	4.65	6.38
27015	846.5	3.57	4.40	6.06
LTE Band 26 (Part 22), Channel Bandwidth 10MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
26840	829.0	3.75	5.23	6.33
26915	836.5	3.94	5.04	6.35
26990	844.0	3.55	5.14	6.36
LTE Band 26 (Part 22), Channel Bandwidth 15MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
26865	831.5	3.36	5.04	6.45
26915	836.5	3.55	5.16	6.85
26965	841.5	3.42	4.78	6.04

Spectrum Plot of Worst Value

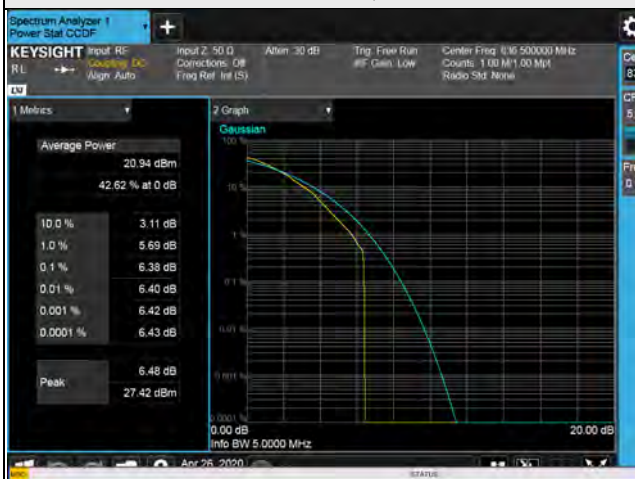
1.4MHz / 64QAM



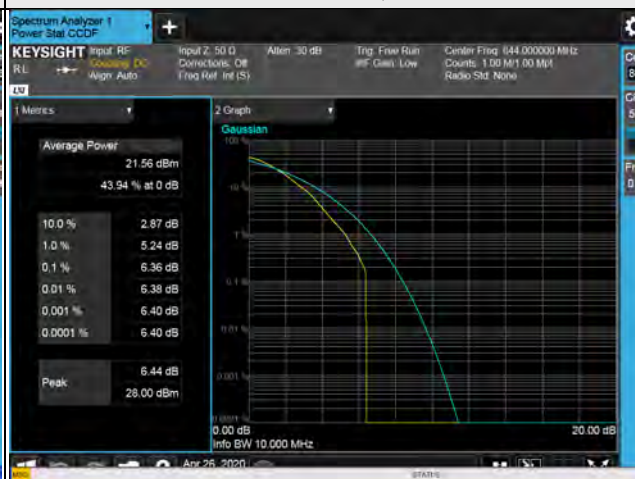
3MHz / 64QAM



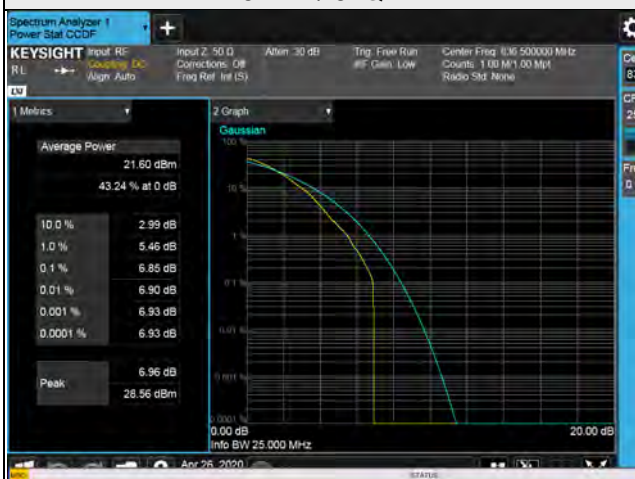
5MHz / 64QAM



10MHz / 64QAM



15MHz / 64QAM

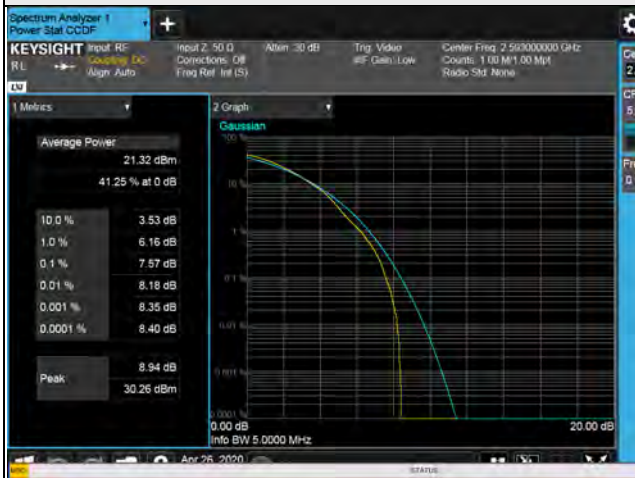


LTE Band 41

LTE Band 41, Channel Bandwidth 5MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
39675	2498.5	3.33	4.14	6.83
40620	2593	3.85	5.83	7.57
41565	2687.5	3.83	5.82	7.41
LTE Band 41, Channel Bandwidth 10MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
39700	2501	3.37	4.31	6.95
40620	2593	3.84	6.51	7.53
41540	2685	3.83	3.79	7.34
LTE Band 41, Channel Bandwidth 15MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
39725	2503.5	4.00	5.01	6.65
40620	2593	4.02	6.16	7.11
41515	2682.5	4.54	6.17	7.43
LTE Band 41, Channel Bandwidth 20MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
39750	2506	4.07	5.10	6.90
40620	2593	4.73	6.54	7.55
41490	2680	4.71	5.72	7.38

Spectrum Plot of Worst Value

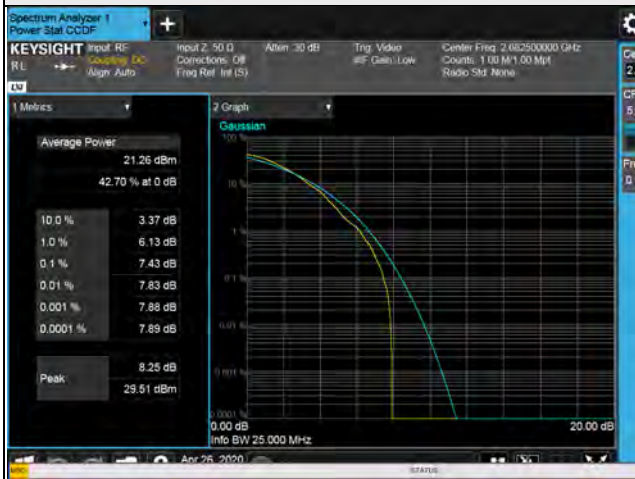
5MHz / 64QAM



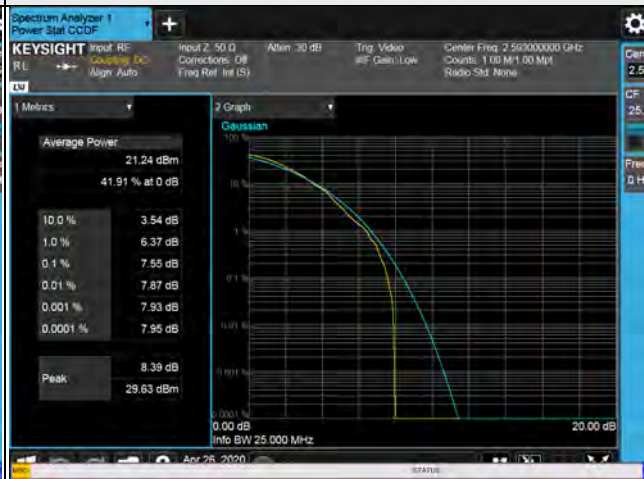
10MHz / 64QAM



15MHz / 64QAM



20MHz / 64QAM



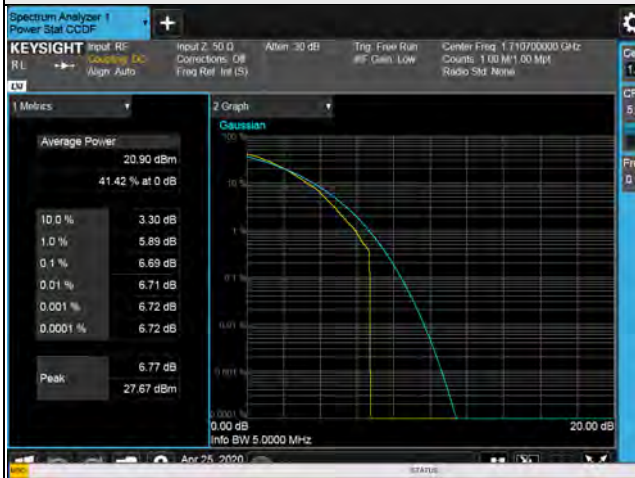
LTE Band 66

LTE Band 66, Channel Bandwidth 1.4MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
131979	1710.7	3.73	4.49	6.69
132322	1745.0	3.66	4.47	6.68
132665	1779.3	3.95	5.06	6.36
LTE Band 66, Channel Bandwidth 3MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
131987	1711.5	3.63	4.40	6.57
132322	1745.0	3.60	4.41	6.61
132657	1778.5	3.70	5.02	6.39
LTE Band 66, Channel Bandwidth 5MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
131997	1712.5	3.66	4.43	6.55
132322	1745.0	3.65	4.48	6.66
132647	1777.5	3.75	4.83	6.43
LTE Band 66, Channel Bandwidth 10MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
132022	1715.0	3.76	4.61	6.83
132322	1745.0	3.74	4.63	6.85
132622	1775.0	3.58	4.37	6.65
LTE Band 66, Channel Bandwidth 15MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
132047	1717.5	3.71	4.59	6.67
132322	1745.0	3.69	4.52	6.71
132597	1772.5	3.46	4.18	6.27

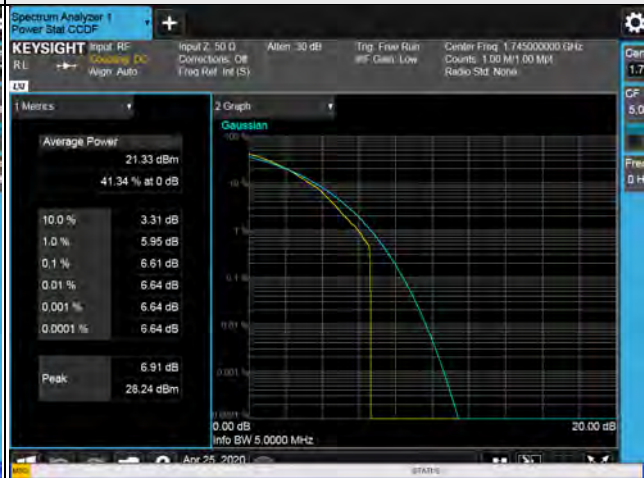
LTE Band 66, Channel Bandwidth 20MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM
132072	1720.0	3.76	4.57	6.96
132322	1745.0	3.73	4.56	6.80
132572	1770.0	3.63	4.79	6.24

Spectrum Plot of Worst Value

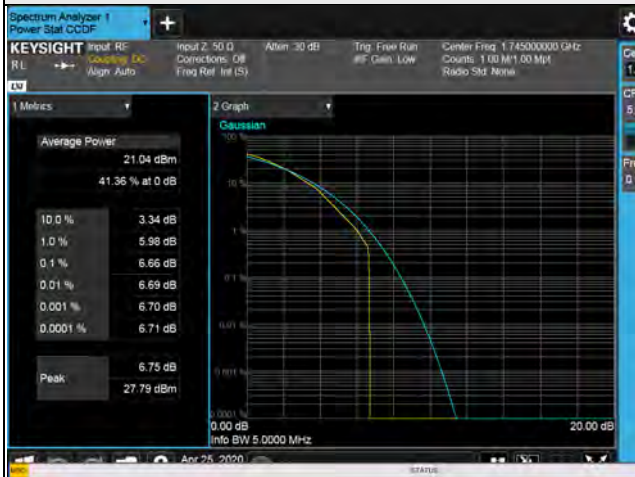
1.4MHz / 64QAM



3MHz / 64QAM



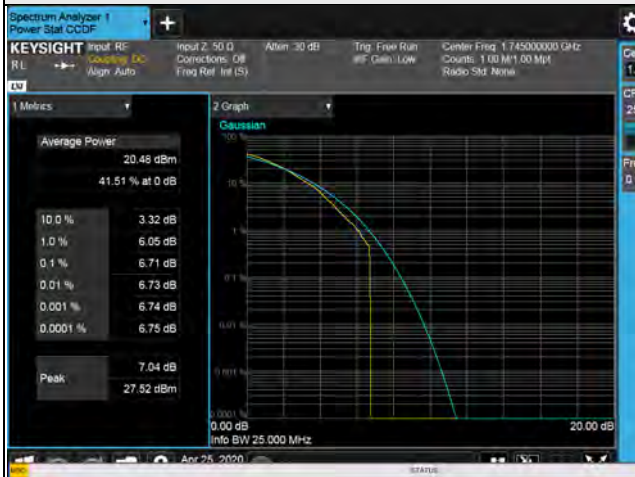
5MHz / 64QAM



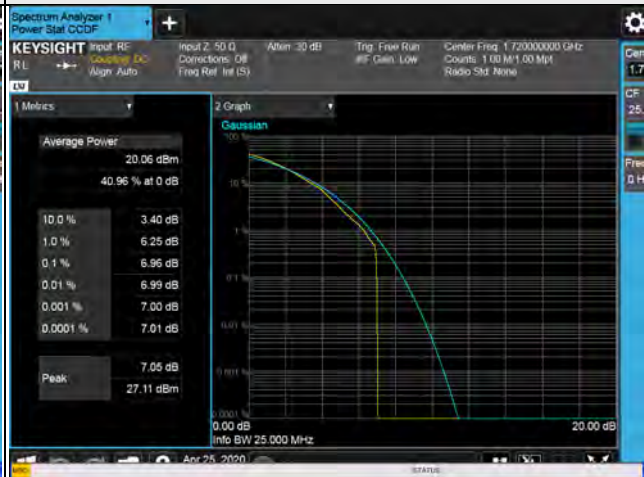
10MHz / 64QAM



15MHz / 64QAM



20MHz / 64QAM



4.7 Conducted Spurious Emissions

4.7.1 Limits of Conducted Spurious Emissions Measurement

For n41

In the FCC 27.53(m)(4), On any frequency outside a licensee's frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least $55 + 10 \log(P)$ dB. The emission limit equal to -25dBm .

For LTE Band 2, LTE Band 25, LTE Band 26

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 .

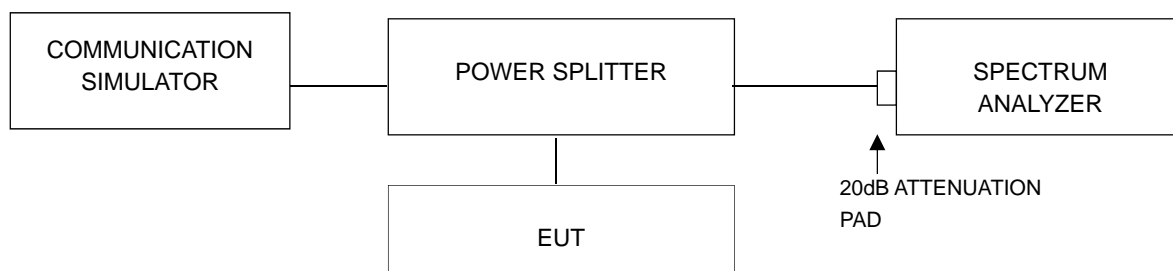
For LTE Band 41

In the FCC 27.53(m)(4), On any frequency outside a licensee's frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least $55 + 10 \log(P)$ dB. The emission limit equal to -25dBm .

For LTE Band 66

In the FCC 27.53(h), On any frequency outside a licensee's frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

4.7.2 Test Setup



4.7.3 Test Procedure

- All measurements were done at 3 channels: low, middle and high operational frequency range.
- When the spectrum scanned from 9kHz to 7GHz / 8GHz / 18GHz / 26GHz / 27GHz / 30GHz, it shall be connected to the attenuator with the carried frequency.

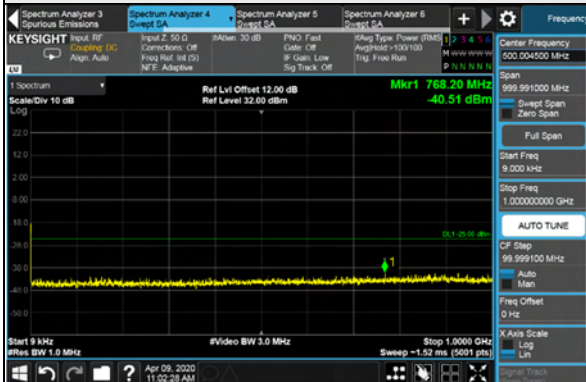
4.7.4 Test Results

n41

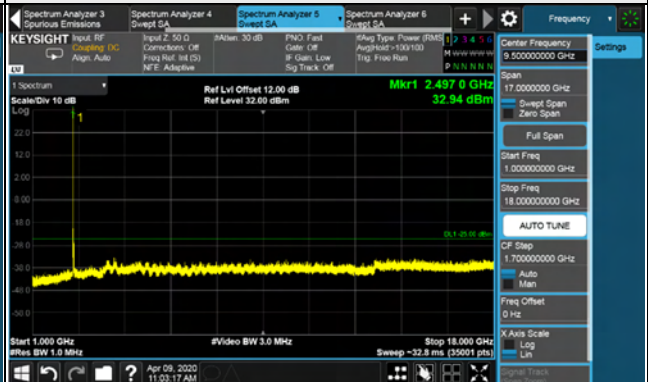
Channel Bandwidth: 20MHz

Channel 501204 (2506.02MHz)

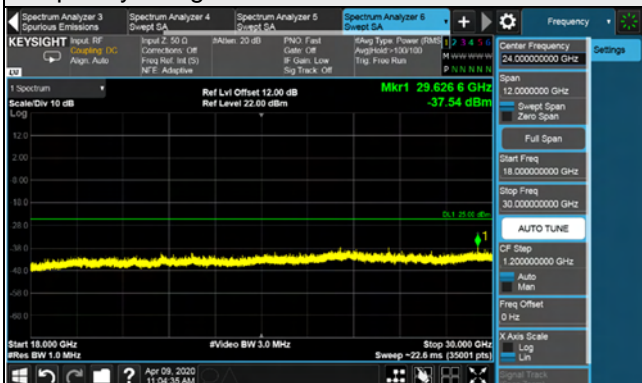
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~18GHz



Frequency Range : 18GHz~30GHz



*The 9kHz signal over the limit is from Spectrum.

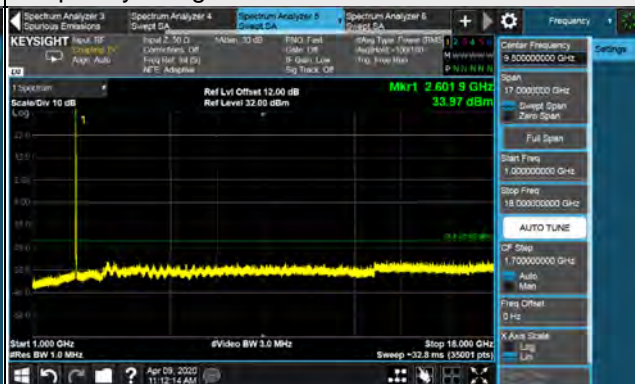
Channel Bandwidth: 20MHz

Channel 518598 (2592.99MHz)

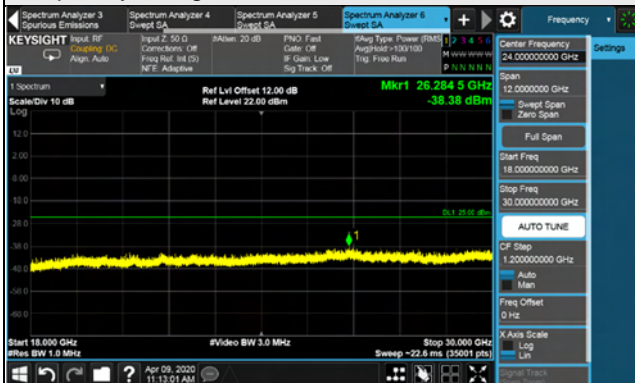
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~18GHz



Frequency Range : 18GHz~30GHz



*The 9kHz signal over the limit is from Spectrum.

Channel Bandwidth: 20MHz

Channel 535998 (2679.99MHz)

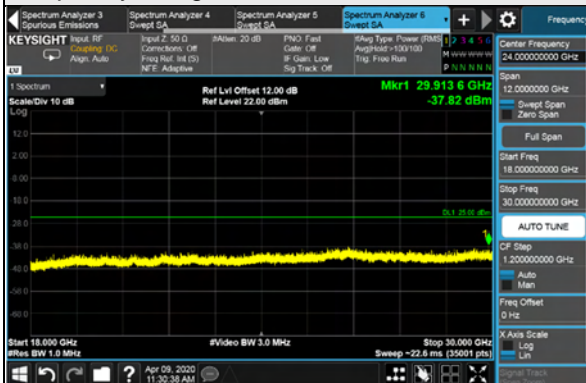
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~18GHz



Frequency Range : 18GHz~30GHz



*The 9kHz signal over the limit is from Spectrum.

Channel Bandwidth: 40MHz

Channel 503202 (2516.01MHz)

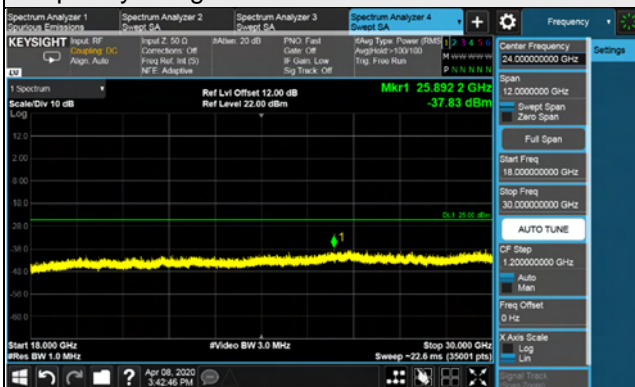
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~18GHz



Frequency Range : 18GHz~30GHz



*The 9kHz signal over the limit is from Spectrum.

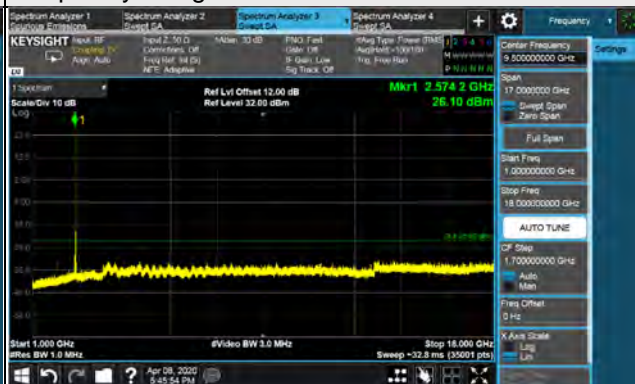
Channel Bandwidth: 40MHz

Channel 518598 (2592.99MHz)

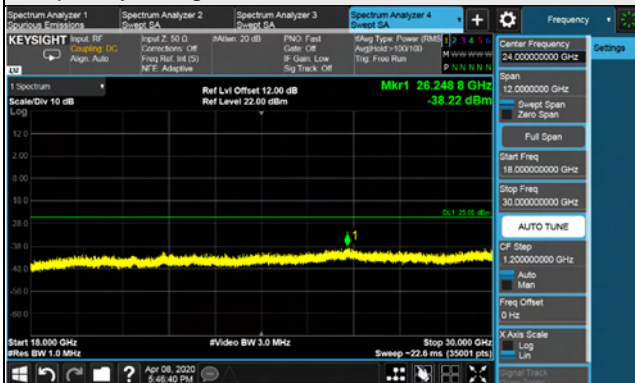
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~18GHz



Frequency Range : 18GHz~30GHz



*The 9kHz signal over the limit is from Spectrum.