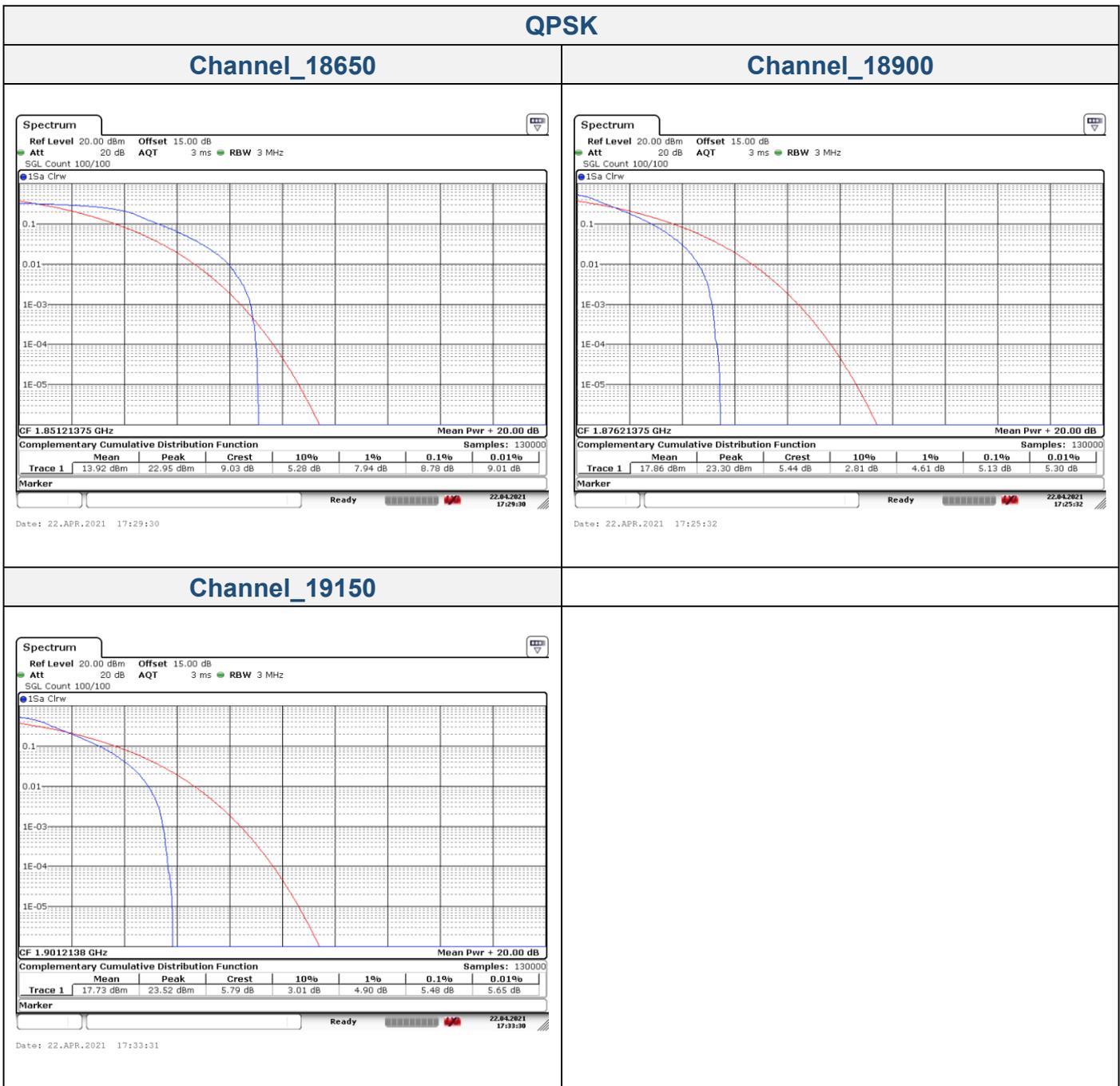


LTE Band 2 _ Channel Bandwidth: 10 MHz

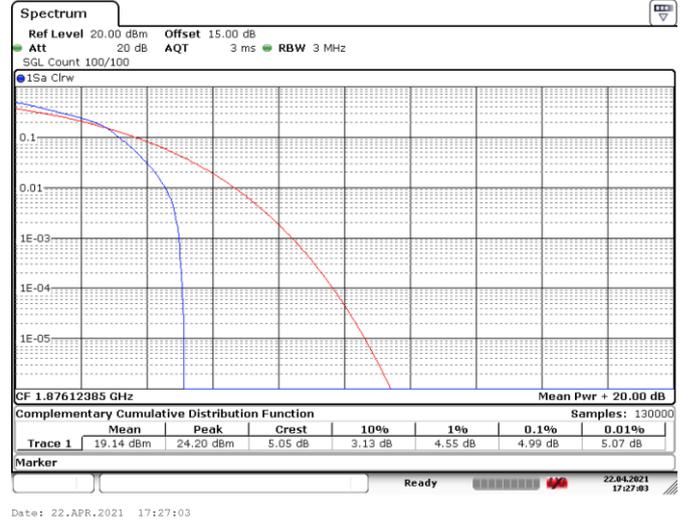
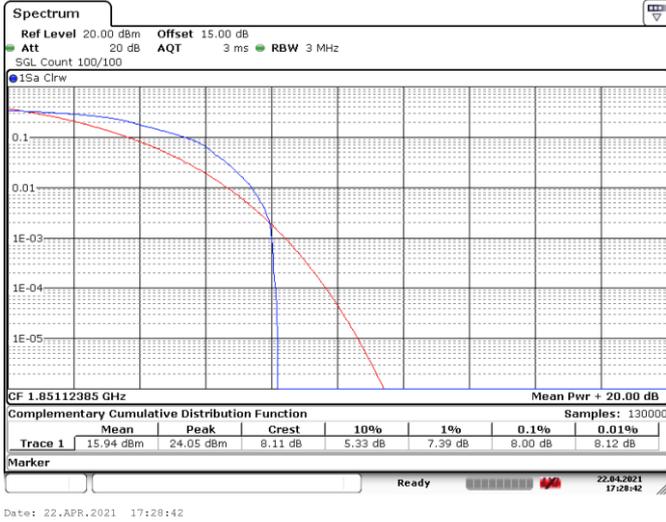
Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM
18650	1855.0	8.78	8.00
18900	1880.0	5.13	4.99
19150	1905.0	5.48	4.87



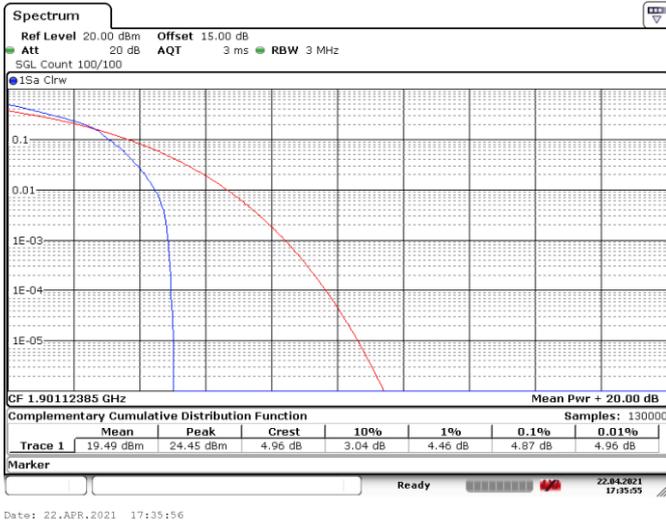
16QAM

Channel_18650

Channel_18900

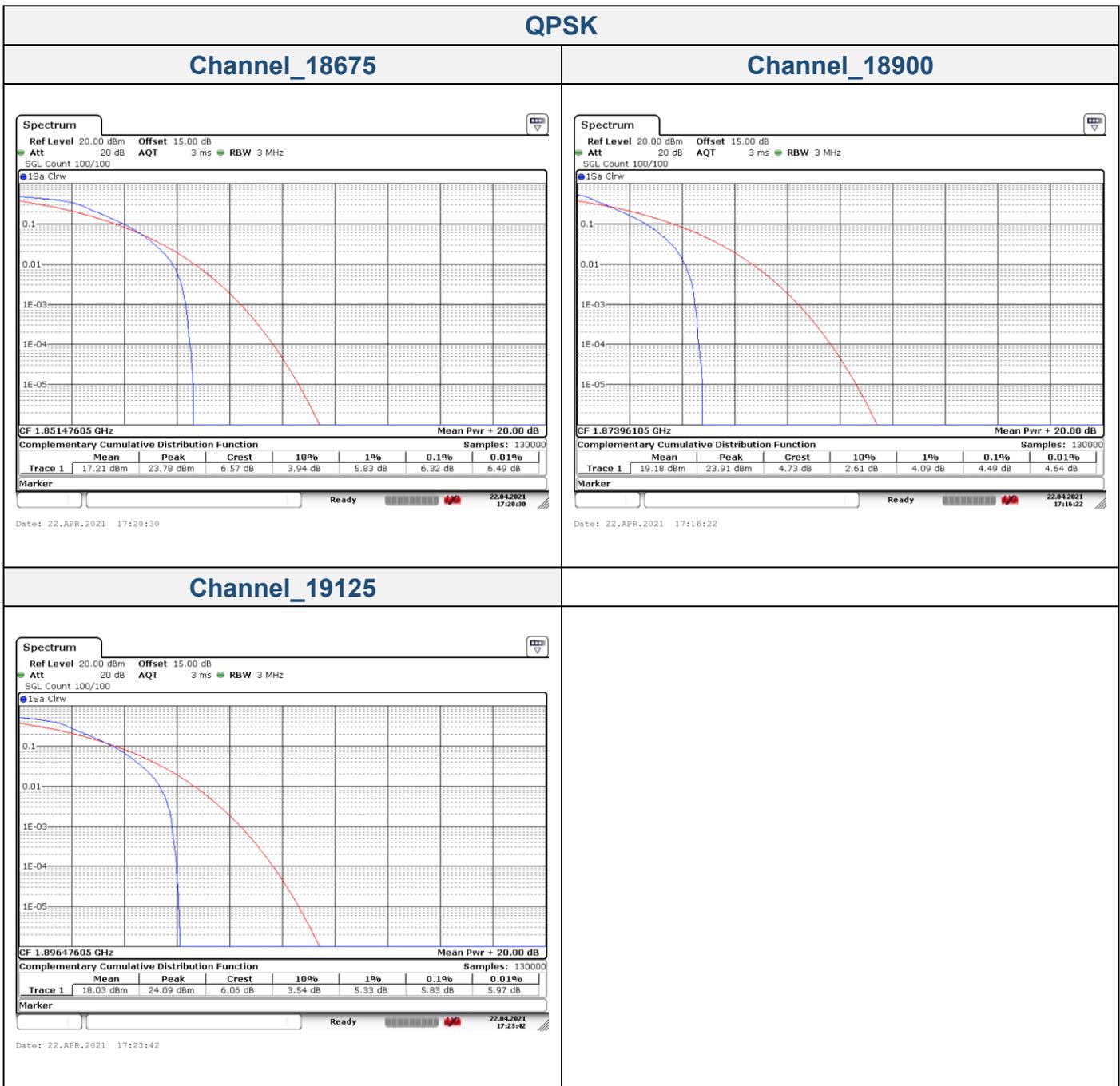


Channel_19150



LTE Band 2 _ Channel Bandwidth: 15 MHz

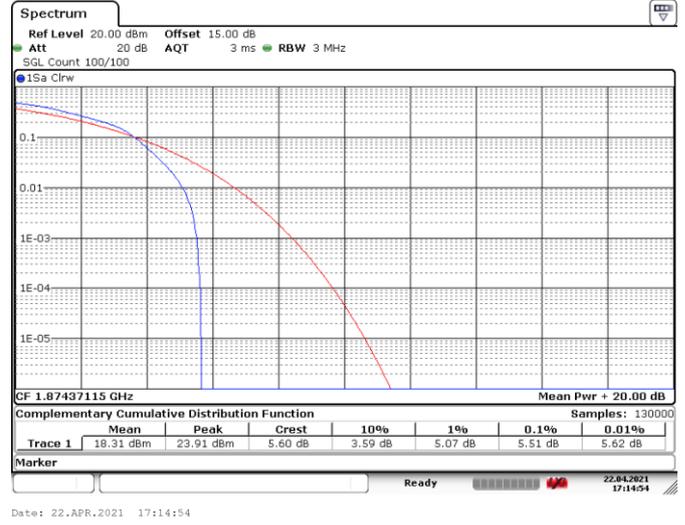
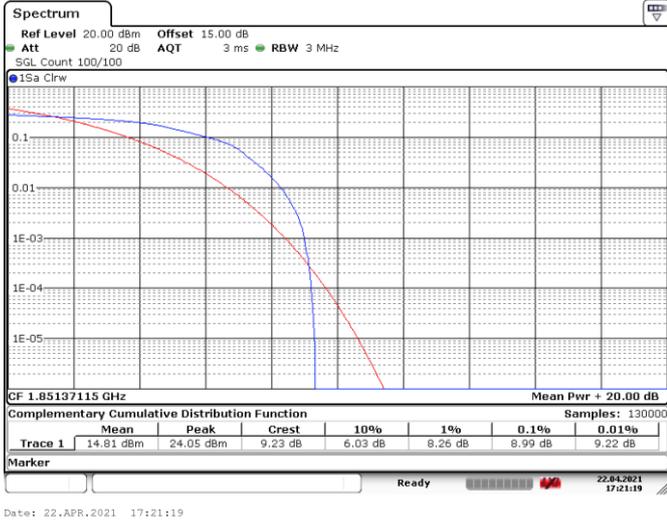
Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM
18675	1857.5	6.32	8.99
18900	1880.0	4.49	5.51
19125	1902.5	5.83	7.80



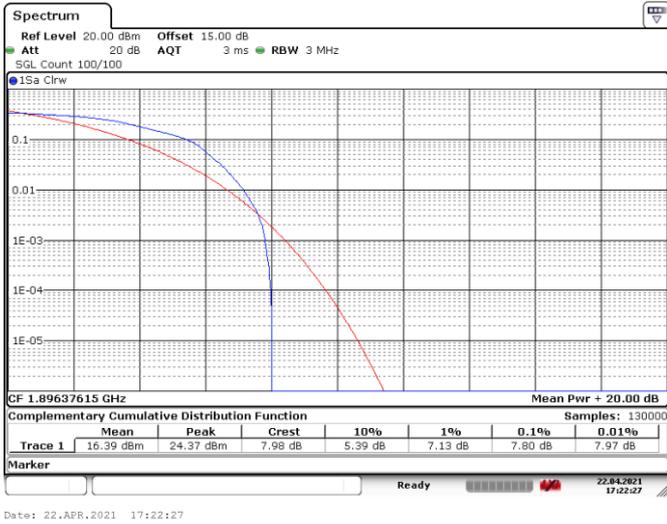
16QAM

Channel_18675

Channel_18900

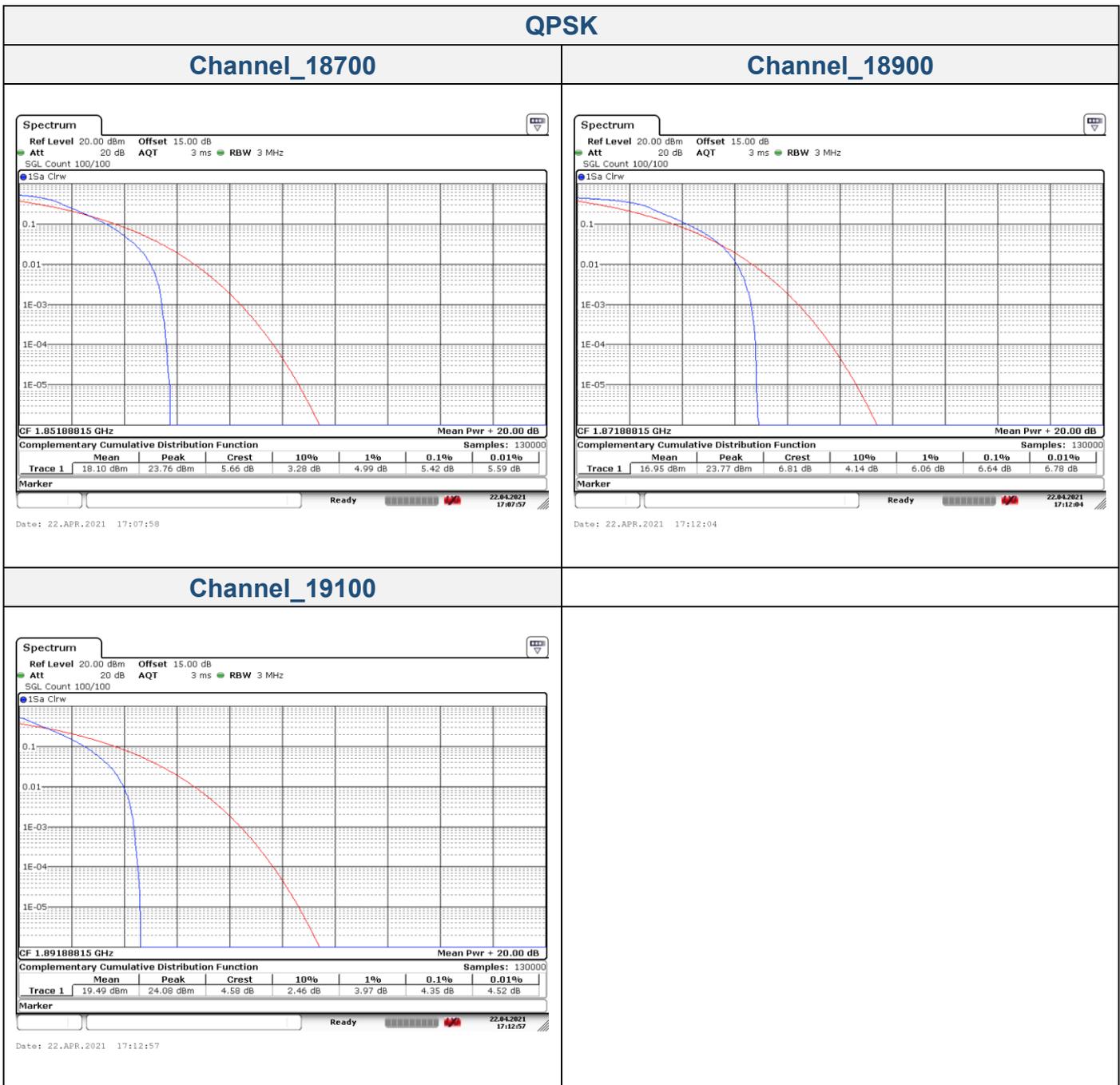


Channel_19125



LTE Band 2 _ Channel Bandwidth: 20 MHz

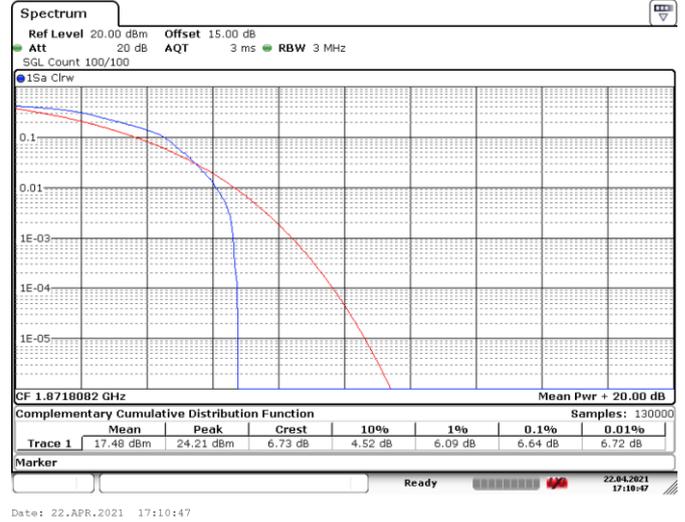
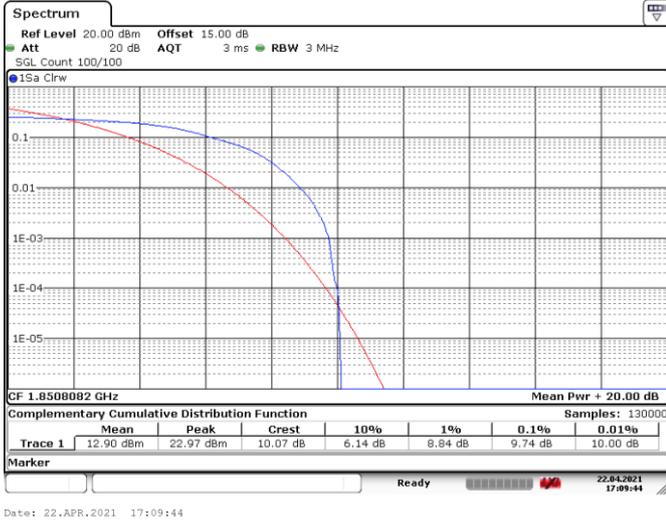
Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM
18700	1860.0	5.42	9.74
18900	1880.0	6.64	6.64
19100	1900.0	4.35	5.57



16QAM

Channel_18700

Channel_18900



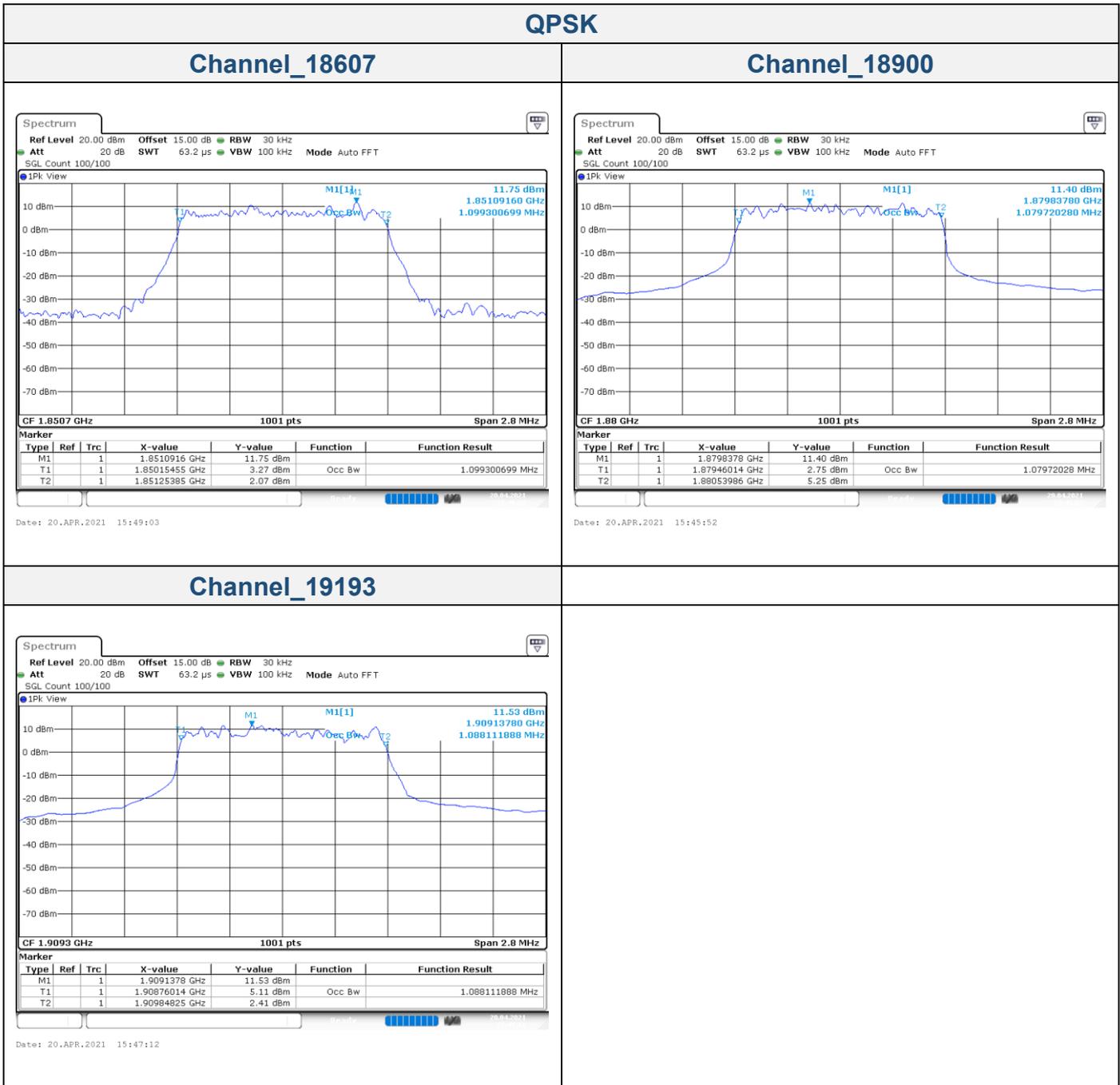
Channel_19100



99 % Occupied Bandwidth

LTE Band 2 _ Channel Bandwidth: 1.4 MHz

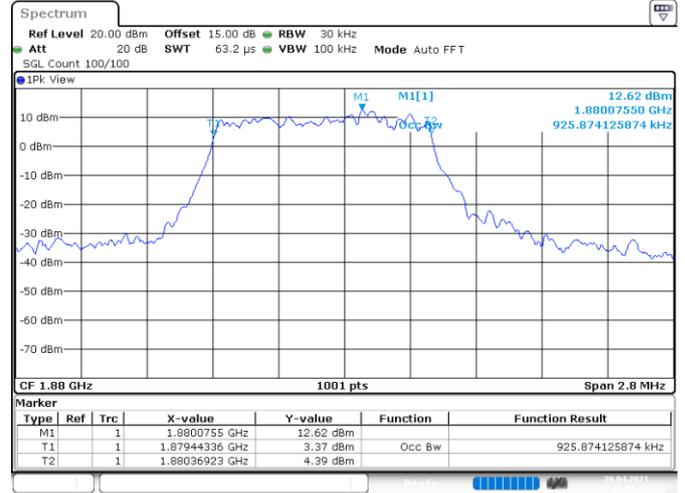
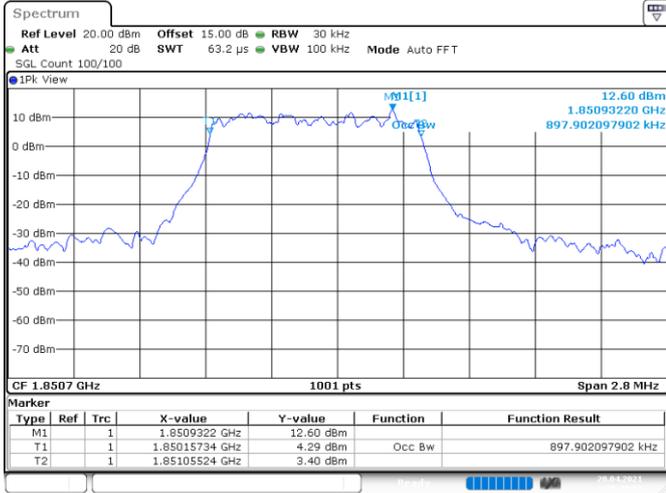
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	
		QPSK	16QAM
18607	1850.7	1.10	0.90
18900	1880.0	1.08	0.93
19193	1909.3	1.09	0.91



16QAM

Channel_18607

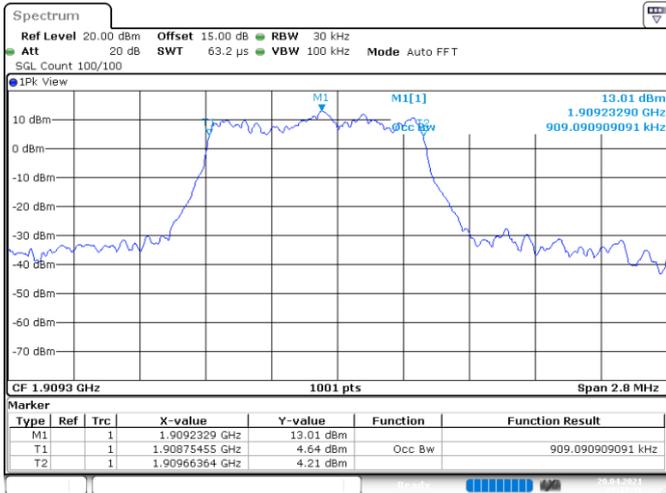
Channel_18900



Date: 20.APR.2021 15:48:38

Date: 20.APR.2021 15:45:11

Channel_19193



Date: 20.APR.2021 15:47:41

LTE Band 2 _ Channel Bandwidth: 3 MHz

Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	
		QPSK	16QAM
18615	1851.5	1.08	0.91
18900	1880.0	1.10	0.99
19185	1908.5	1.09	0.91

QPSK

Channel_18615

CF 1.8515 GHz 1001 pts **Span 6.0 MHz**

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		1.8512542 GHz	12.93 dBm		
T1	1		1.85033117 GHz	5.28 dBm	Occ Bw	1.078921079 MHz
T2	1		1.85141009 GHz	5.36 dBm		

Date: 20.APR.2021 15:34:09

Channel_18900

CF 1.88 GHz 1001 pts **Span 6.0 MHz**

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		1.8792088 GHz	10.23 dBm		
T1	1		1.87881918 GHz	3.51 dBm	Occ Bw	1.096903097 MHz
T2	1		1.87991608 GHz	4.75 dBm		

Date: 20.APR.2021 15:51:18

Channel_19185

CF 1.9075 GHz 1001 pts **Span 6.0 MHz**

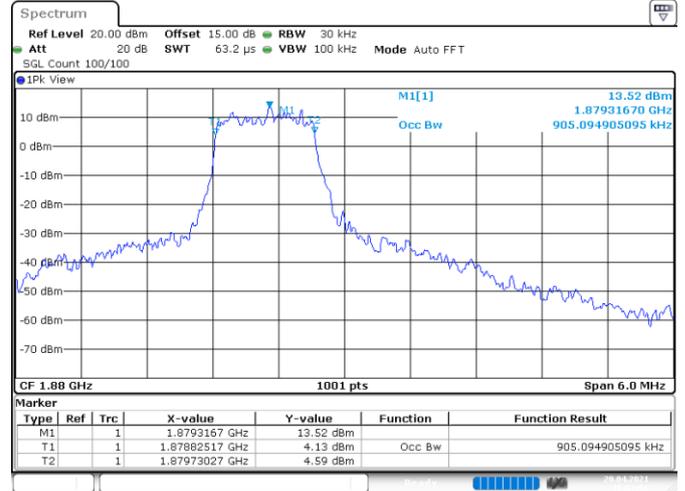
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		1.9075 GHz	10.91 dBm		
T1	1		1.90733217 GHz	5.79 dBm	Occ Bw	1.090909091 MHz
T2	1		1.90842308 GHz	0.42 dBm		

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16QAM

Channel_18615

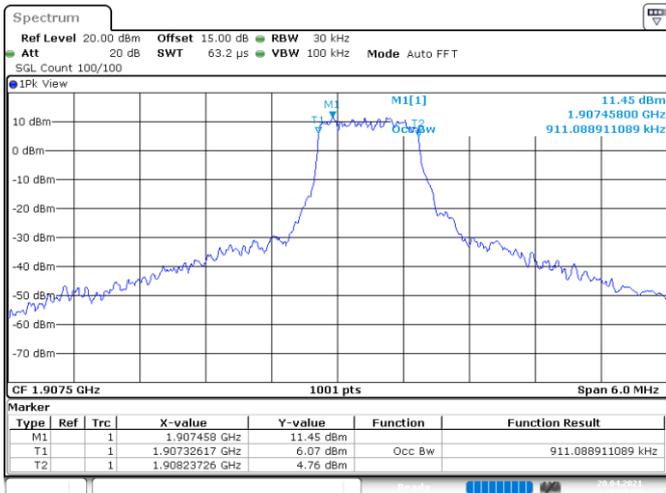
Channel_18900



Date: 20.APR.2021 15:33:25

Date: 20.APR.2021 15:51:56

Channel_19185



Date: 20.APR.2021 15:35:56

LTE Band 2 _ Channel Bandwidth: 5 MHz

Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	
		QPSK	16QAM
18625	1852.5	1.08	1.09
18900	1880.0	1.09	1.10
19175	1907.5	1.08	1.09

QPSK

Channel_18625

Spectrum
 Ref Level 20.00 dBm Offset 15.00 dB RBW 30 kHz
 Att 20 dB SWT 126.4 µs VBW 100 kHz Mode Auto FFT
 SGL Count 100/100

1Pk View
 M1 11.96 dBm
 1.85105100 GHz
 1.088911089 MHz
 Occ Bw

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		1.851051 GHz	11.96 dBm		
T1	1		1.8502423 GHz	6.36 dBm	Occ Bw	1.088911089 MHz
T2	1		1.8513312 GHz	6.35 dBm		

CF 1.8525 GHz 1001 pts Span 10.0 MHz

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Channel_18900

Spectrum
 Ref Level 20.00 dBm Offset 15.00 dB RBW 30 kHz
 Att 20 dB SWT 126.4 µs VBW 100 kHz Mode Auto FFT
 SGL Count 100/100

1Pk View
 M1 13.15 dBm
 1.87854100 GHz
 1.098901099 MHz
 Occ Bw

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		1.878541 GHz	13.15 dBm		
T1	1		1.8777423 GHz	5.26 dBm	Occ Bw	1.098901099 MHz
T2	1		1.8788412 GHz	5.59 dBm		

CF 1.88 GHz 1001 pts Span 10.0 MHz

Date: 20.APR.2021 15:27:25

Channel_19175

Spectrum
 Ref Level 20.00 dBm Offset 15.00 dB RBW 30 kHz
 Att 20 dB SWT 126.4 µs VBW 100 kHz Mode Auto FFT
 SGL Count 100/100

1Pk View
 M1 13.69 dBm
 1.90627100 GHz
 1.088911089 MHz
 Occ Bw

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		1.906271 GHz	13.69 dBm		
T1	1		1.9052423 GHz	5.55 dBm	Occ Bw	1.088911089 MHz
T2	1		1.9063312 GHz	5.84 dBm		

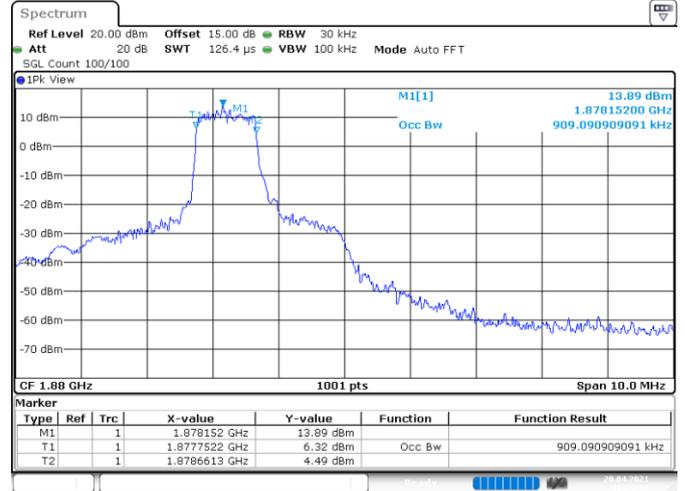
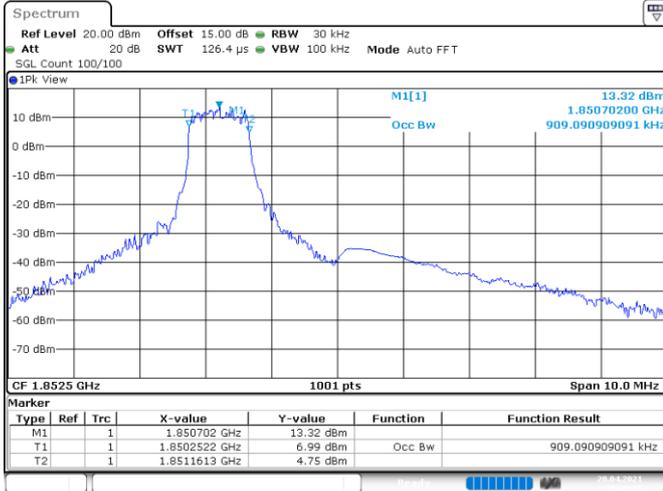
CF 1.9075 GHz 1001 pts Span 10.0 MHz

Date: 20.APR.2021 15:27:53

16QAM

Channel_18625

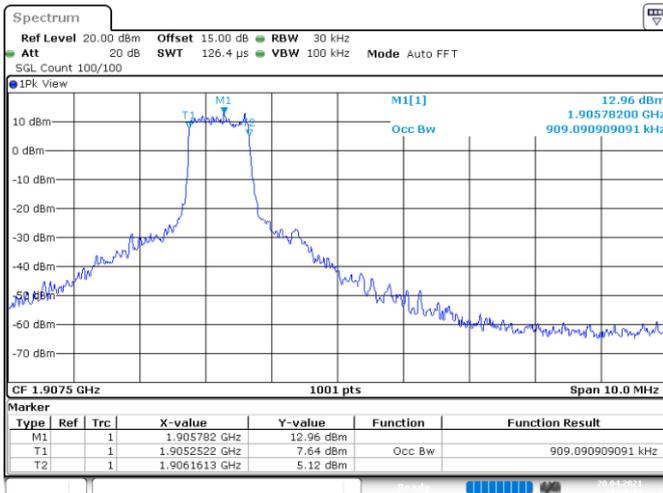
Channel_18900



Date: 20.APR.2021 15:30:25

Date: 20.APR.2021 15:26:55

Channel_19175



Date: 20.APR.2021 15:28:18

LTE Band 2 _ Channel Bandwidth: 10 MHz

Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	
		QPSK	16QAM
18650	1855.0	1.10	0.92
18900	1880.0	1.10	0.92
19150	1905.0	1.12	0.92

QPSK

Channel_18650

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		1.851484 GHz	12.53 dBm		
T1	1		1.8506643 GHz	2.99 dBm	Occ Bw	1.098901099 MHz
T2	1		1.8517632 GHz	4.69 dBm		

Date: 20.APR.2021 15:11:03

Channel_18900

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		1.875924 GHz	11.55 dBm		
T1	1		1.8756643 GHz	5.29 dBm	Occ Bw	1.098901099 MHz
T2	1		1.8767632 GHz	5.57 dBm		

Date: 20.APR.2021 15:03:33

Channel_19150

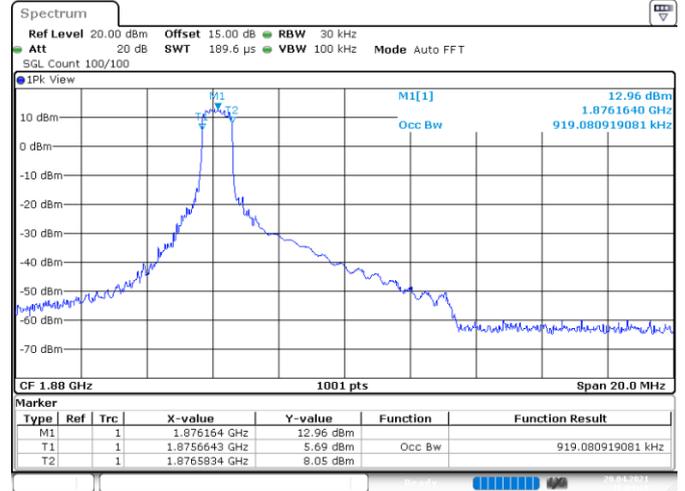
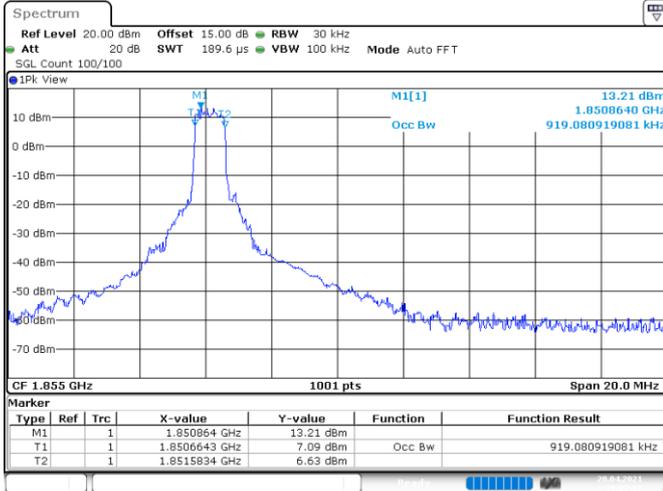
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		1.901484 GHz	12.45 dBm		
T1	1		1.9006444 GHz	1.67 dBm	Occ Bw	1.118881119 MHz
T2	1		1.9017632 GHz	5.21 dBm		

Date: 20.APR.2021 15:02:50

16QAM

Channel_18650

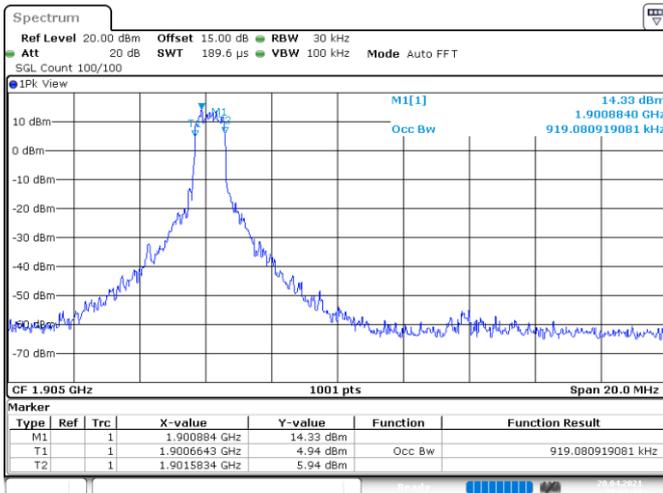
Channel_18900



Date: 20.APR.2021 15:07:07

Date: 20.APR.2021 15:04:18

Channel_19150



Date: 20.APR.2021 15:02:10

LTE Band 2 _ Channel Bandwidth: 15 MHz

Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	
		QPSK	16QAM
18675	1857.5	1.08	0.93
18900	1880.0	1.11	0.93
19125	1902.5	1.11	0.93

QPSK

Channel_18675

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		1.851926 GHz	14.66 dBm		
T1	1		1.8509366 GHz	11.52 dBm	Occ Bw	1.078921079 MHz
T2	1		1.8520155 GHz	8.45 dBm		

Date: 20.APR.2021 15:18:25

Channel_18900

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		1.874426 GHz	13.94 dBm		
T1	1		1.8734066 GHz	4.07 dBm	Occ Bw	1.108891109 MHz
T2	1		1.8745155 GHz	8.21 dBm		

Date: 20.APR.2021 15:12:22

Channel_19125

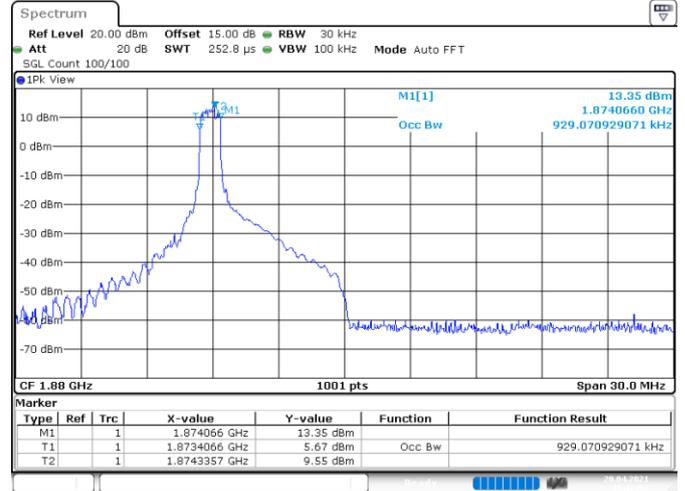
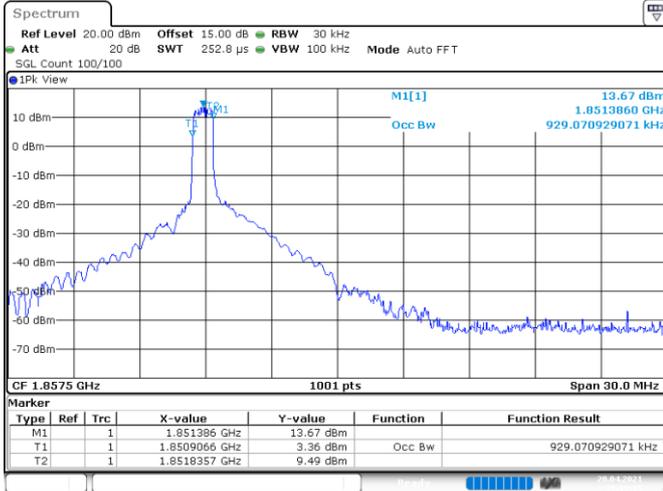
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		1.896926 GHz	13.56 dBm		
T1	1		1.8959066 GHz	3.03 dBm	Occ Bw	1.108891109 MHz
T2	1		1.8970155 GHz	8.34 dBm		

Date: 20.APR.2021 15:17:34

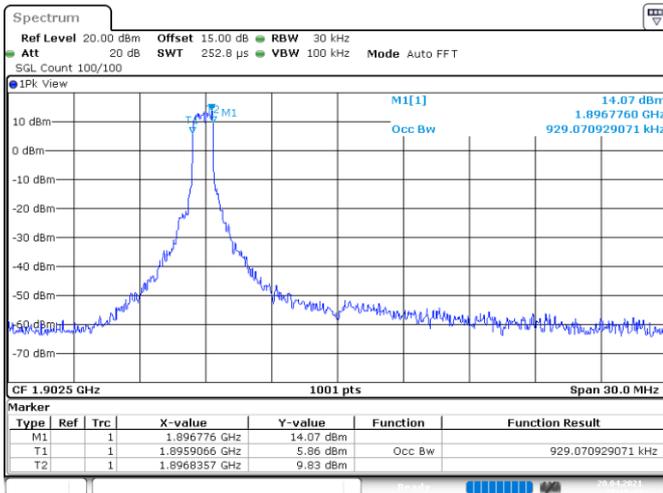
16QAM

Channel_18675

Channel_18900



Channel_19125



LTE Band 2 _ Channel Bandwidth: 20 MHz

Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	
		QPSK	16QAM
18700	1860.0	1.12	0.96
18900	1880.0	1.12	0.96
19100	1900.0	1.12	0.96

QPSK

Channel_18700

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		1.852369 GHz	14.39 dBm		
T1	1		1.8513287 GHz	4.31 dBm	Occ Bw	1.118881119 MHz
T2	1		1.8524476 GHz	9.55 dBm		

Date: 22.APR.2021 16:47:25

Channel_18900

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		1.871568 GHz	13.06 dBm		
T1	1		1.8713287 GHz	4.51 dBm	Occ Bw	1.118881119 MHz
T2	1		1.8724476 GHz	10.09 dBm		

Date: 20.APR.2021 15:24:02

Channel_19100

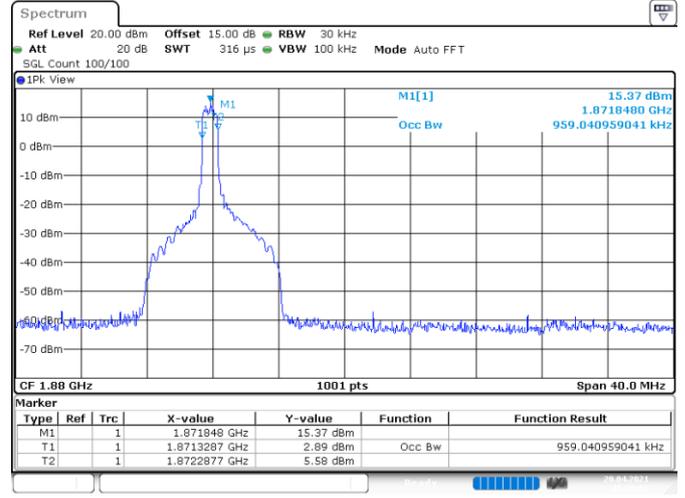
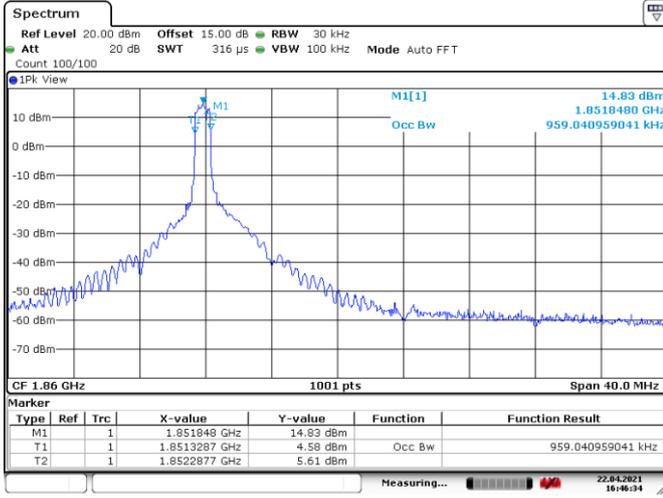
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		1.891528 GHz	14.11 dBm		
T1	1		1.8913287 GHz	4.19 dBm	Occ Bw	1.118881119 MHz
T2	1		1.8924476 GHz	9.74 dBm		

Date: 20.APR.2021 15:24:11

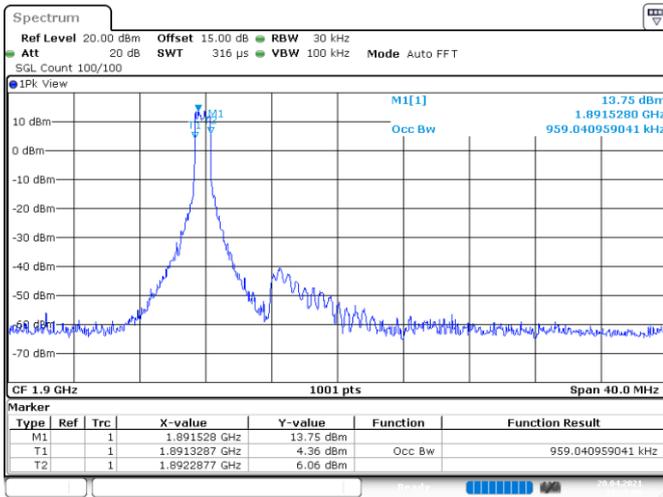
16QAM

Channel_18700

Channel_18900



Channel_19100



26 dB Bandwidth

LTE Band 2 _ Channel Bandwidth: 1.4 MHz

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		QPSK	16QAM
18607	1850.7	1.29	1.02
18900	1880.0	1.21	1.03
19193	1909.3	1.28	1.01

QPSK

Channel_18607

Channel_18607 Data:

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		1.8502357 GHz	10.61 dBm	ndB down	1.2867 MHz
T1	1		1.8500734 GHz	-15.32 dBm	ndB	26.00 dB
T2	1		1.8513601 GHz	-15.42 dBm	Q factor	1438.0

Channel_18900

Channel_18900 Data:

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		1.880386 GHz	13.19 dBm	ndB down	1.214 MHz
T1	1		1.8793958 GHz	-12.55 dBm	ndB	26.00 dB
T2	1		1.8806098 GHz	-13.02 dBm	Q factor	1548.9

Channel_19193

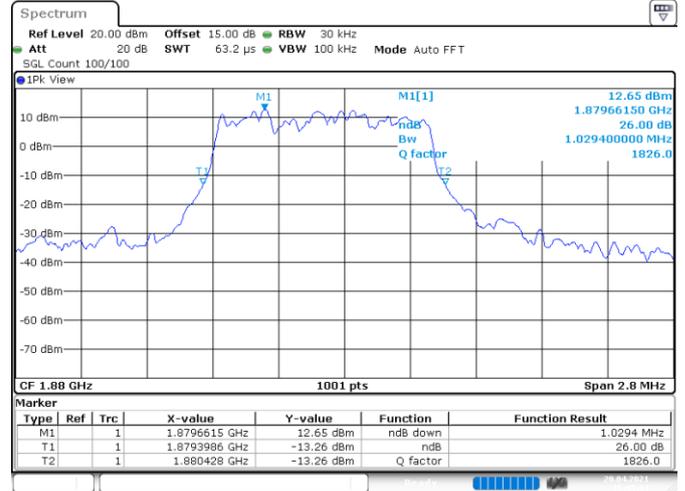
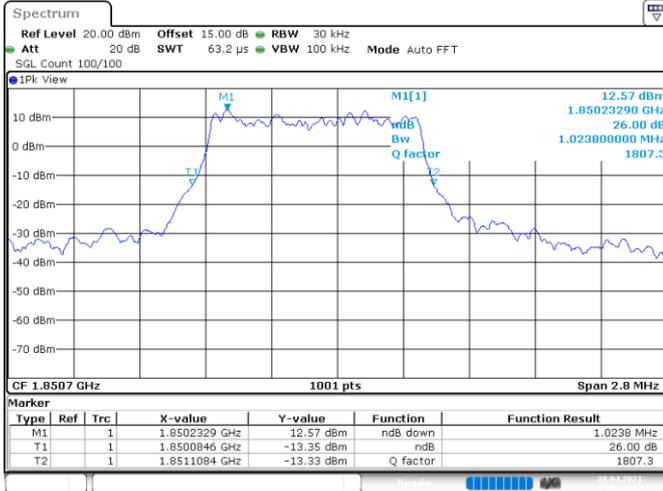
Channel_19193 Data:

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		1.9089308 GHz	12.05 dBm	ndB down	1.2755 MHz
T1	1		1.908679 GHz	-14.12 dBm	ndB	26.00 dB
T2	1		1.9099545 GHz	-13.89 dBm	Q factor	1496.6

16QAM

Channel_18607

Channel_18900



Channel_19193



LTE Band 2 _ Channel Bandwidth: 3 MHz

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		QPSK	16QAM
18615	1851.5	1.26	1.01
18900	1880.0	1.28	1.07
19185	1908.5	1.26	1.03

QPSK

Channel_18615

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		1.8505829 GHz	11.67 dBm	ndB down	1.2587 MHz
T1	1		1.8502293 GHz	-13.93 dBm	ndB	26.00 dB
T2	1		1.851488 GHz	-14.64 dBm	Q factor	1470.2

Date: 20.APR.2021 15:34:13

Channel_18900

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		1.8794126 GHz	11.54 dBm	ndB down	1.2827 MHz
T1	1		1.8787053 GHz	-14.40 dBm	ndB	26.00 dB
T2	1		1.879988 GHz	-14.39 dBm	Q factor	1465.2

Date: 20.APR.2021 15:51:22

Channel_19185

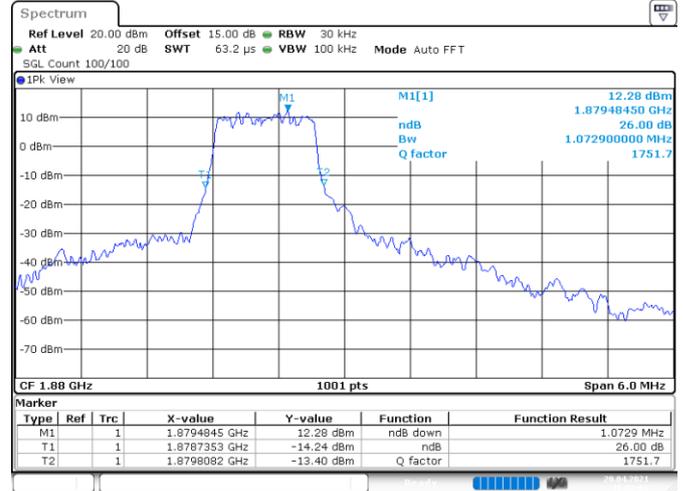
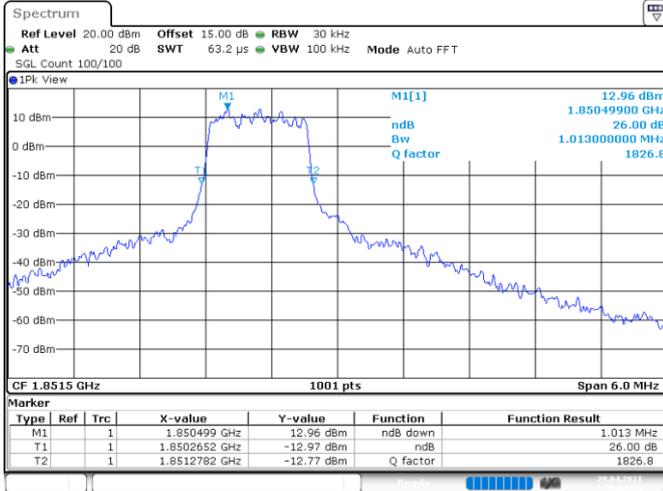
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		1.9075480 GHz	11.15 dBm	ndB down	1.2647 MHz
T1	1		1.9072423 GHz	-14.64 dBm	ndB	26.00 dB
T2	1		1.908507 GHz	-15.24 dBm	Q factor	1508.3

Date: 20.APR.2021 15:35:28

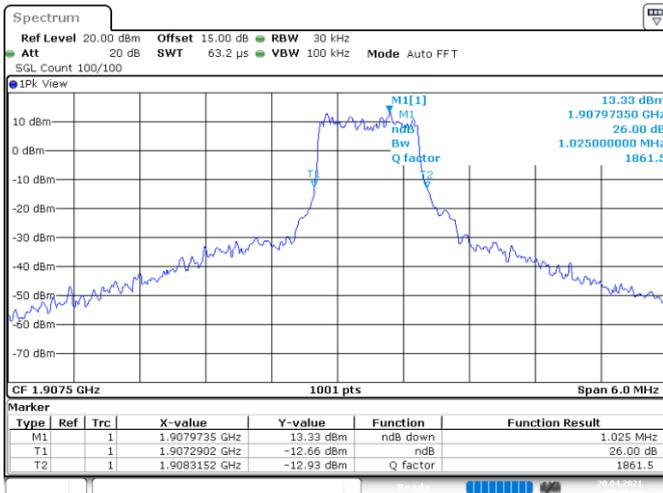
16QAM

Channel_18615

Channel_18900



Channel_19185



LTE Band 2 _ Channel Bandwidth: 5 MHz

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		QPSK	16QAM
18625	1852.5	1.25	1.06
18900	1880.0	1.26	1.07
19175	1907.5	1.27	1.08

QPSK

Channel_18625

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		1.851251 GHz	12.70 dBm	ndB down	1.249 MHz
T1	1		1.850162 GHz	-12.83 dBm	ndB	26.00 dB
T2	1		1.851411 GHz	-12.82 dBm	Q factor	1482.5

Date: 20.APR.2021 15:31:04

Channel_18900

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		1.878621 GHz	12.04 dBm	ndB down	1.259 MHz
T1	1		1.877652 GHz	-13.35 dBm	ndB	26.00 dB
T2	1		1.878911 GHz	-14.64 dBm	Q factor	1492.5

Date: 20.APR.2021 15:27:28

Channel_19175

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		1.906041 GHz	13.25 dBm	ndB down	1.269 MHz
T1	1		1.905172 GHz	-12.28 dBm	ndB	26.00 dB
T2	1		1.906441 GHz	-12.89 dBm	Q factor	1502.3

Date: 20.APR.2021 15:27:56

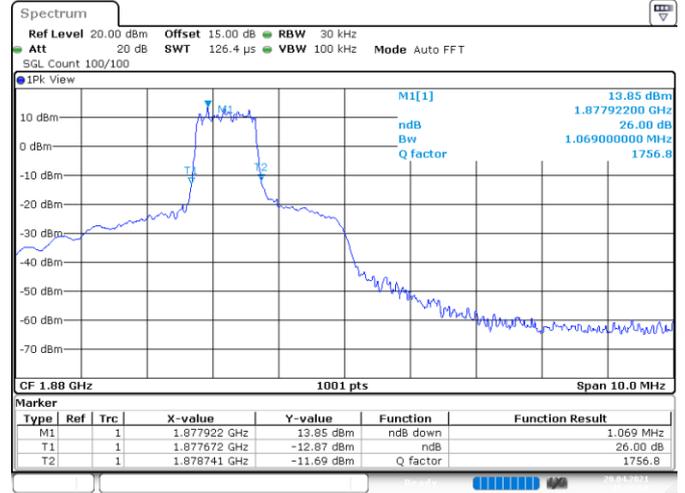
16QAM

Channel_18625

Channel_18900



Date: 20.APR.2021 15:30:29



Date: 20.APR.2021 15:26:59

Channel_19175



Date: 20.APR.2021 15:28:21