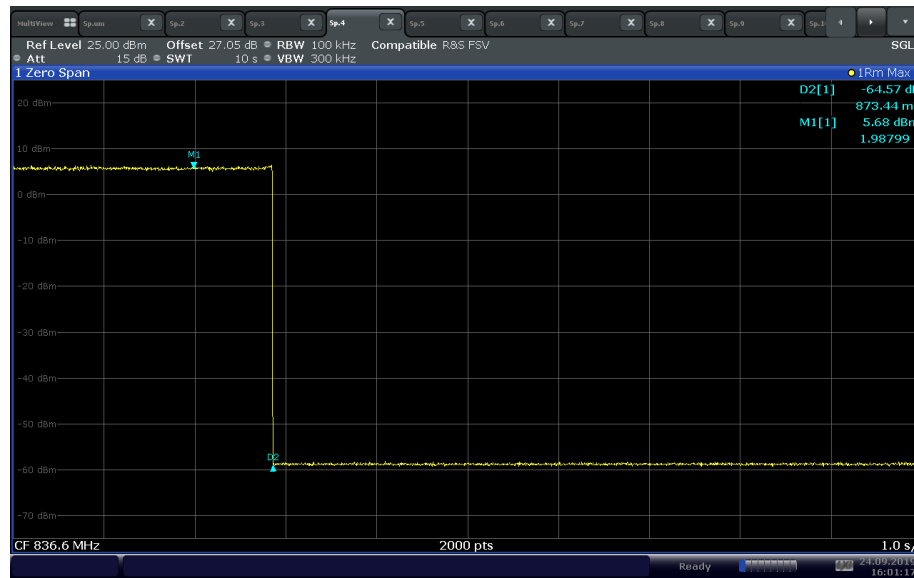




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IC: N/A

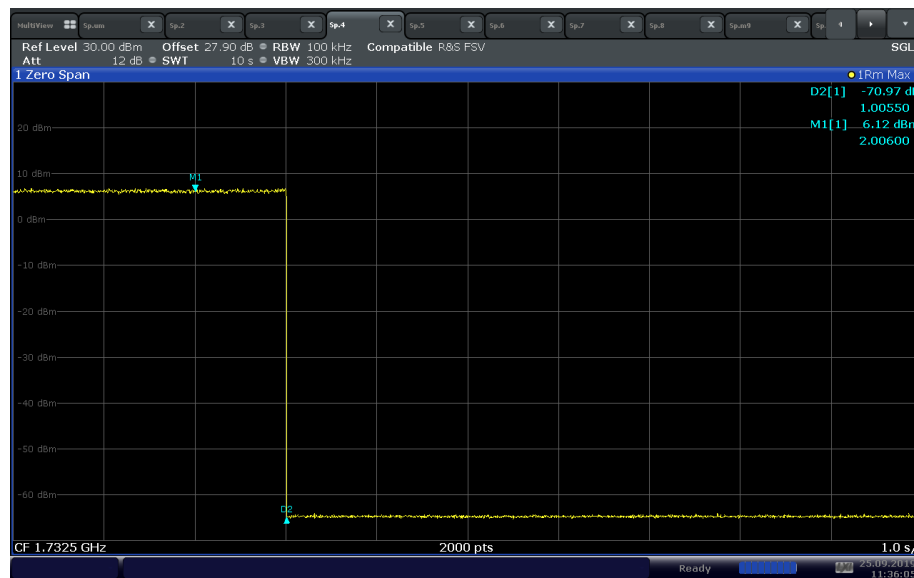
2.9.9 Test Results Plots

WCDMA Band 5 Uplink Gain Timing 5MHz Bandwidth Mid Channel



16:01:17 24.09.2019

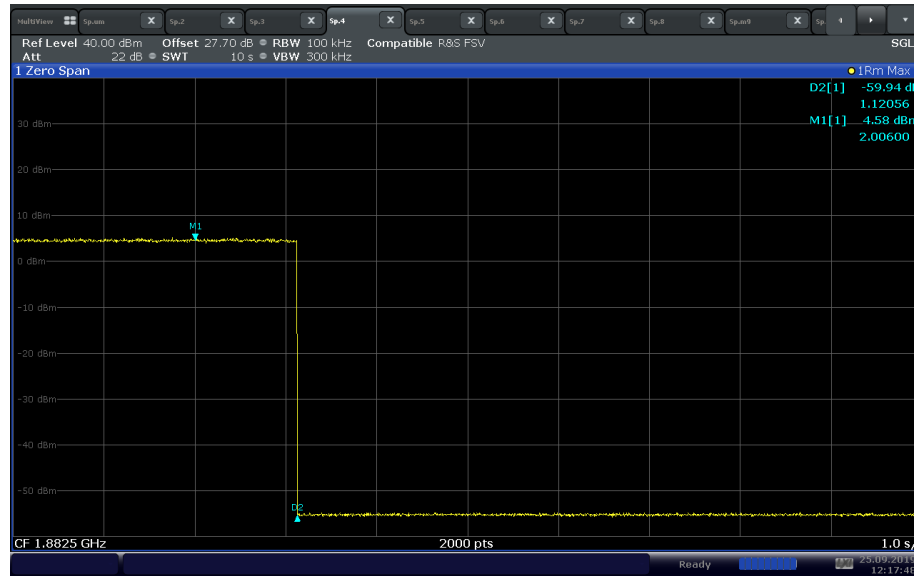
LTE Band 4 Uplink Gain Timing 5MHz Bandwidth Mid Channel



11:36:05 25.09.2019

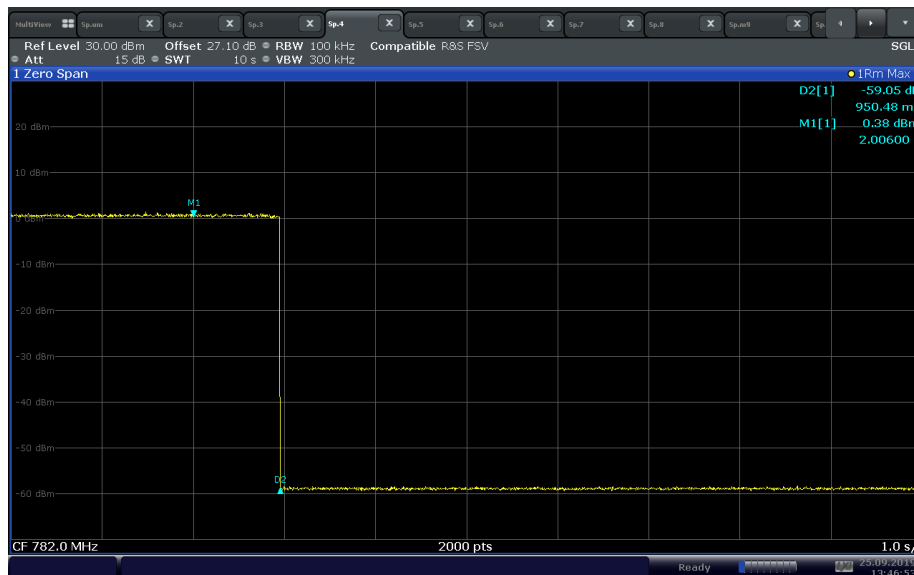
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LTE Band 12 Uplink Gain Timing 5MHz Bandwidth Mid Channel



12:17:49 25.09.2019

LTE Band 13 Uplink Gain Timing 5MHz Bandwidth Mid Channel

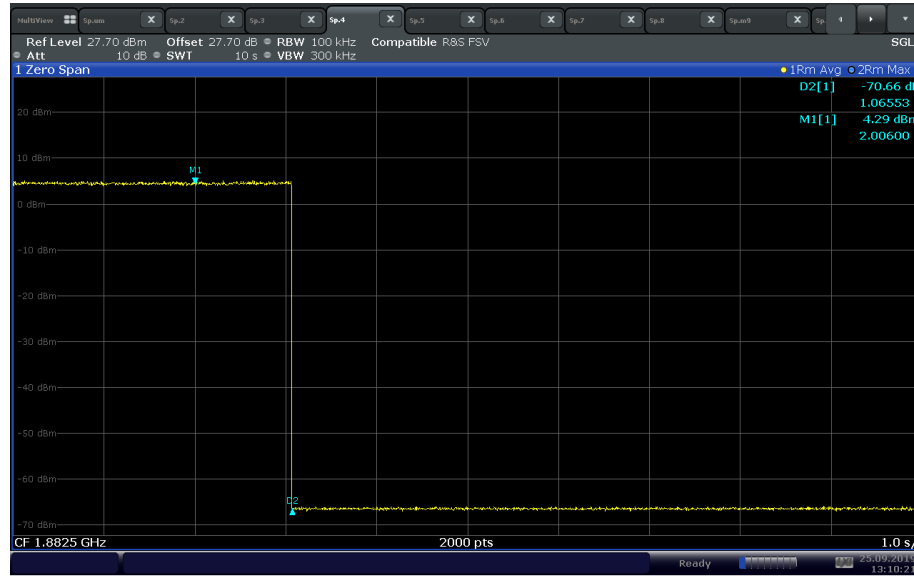


13:46:54 25.09.2019



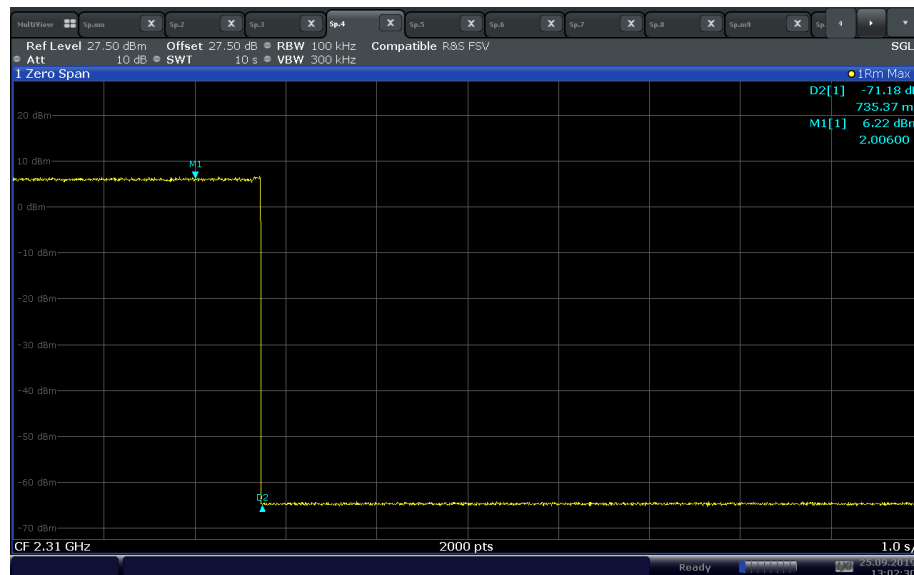
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IC: N/A

LTE Band 25 Uplink Gain Timing_5MHz Bandwidth Mid Channel

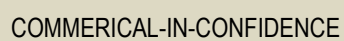


13:10:22 25.09.2019

LTE Band 30 Uplink Gain Timing_5MHz Bandwidth Mid Channel



13:02:31 25.09.2019





FCC ID: NU: YETI44-1M34CNU and CU: YETI41-RECU
IC: N/A

2.10 Occupied Bandwidth

2.10.1 Specification Reference

FCC 47 CFR Part 2, Clause 2.1049
FCC 47 CFR Part 22, Clause 22.917(b)
FCC 47 CFR Part 24, Clause 24.238(b)

2.10.2 Standard Applicable

FCC 47 CFR Part 24, Clause 24.238(b)

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

26dB Bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated by at least 26 dB below the transmitter power.

Using the occupied bandwidth measurement function in the spectrum analyzer, the 99% occupied bandwidth was measured.

In addition, the 26dB bandwidth was measured in accordance with FCC KDB 971168 D01 V0202 Clause 4.1 using the ndB measurement function in the spectrum analyzer.

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be at least 3x RBW.

2.10.3 Equipment Under Test and Modification State

Serial No: 110222000051 and 481222000175 / Test Configuration A and B

2.10.4 Date of Test/Initial of test personnel who performed the test

November 06, 07 and 28, 2022 / MAR

2.10.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.10.6 Environmental Conditions

Test performed at TÜV SÜD America Inc. Mira Mesa facility.

Ambient Temperature	21.8 - 24.3 °C
Relative Humidity	40.0 – 45.3 %
ATM Pressure	99.8 – 101.1kPa

2.10.7 Additional Observations

- This is a conducted test. Both 26dB bandwidth and 99% bandwidth presented.



Product Service

FCC ID: NU: YETI44-1M34CNU and CU: YETI41-RECU
IC: N/A

- Using the occupied bandwidth measurement function in the spectrum analyzer, the 99% occupied bandwidth was measured.
- The 26dB bandwidth is measured in accordance with ANSI C63.26 clause 5.4.3 using the ndB measurement function in the spectrum analyzer.
- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.
- The RBW is set to 1% of the OBW while the VBW is $\geq 3 \times$ RBW.
- The detector is peak and the trace mode is max hold.
- All low, middle and high channels were verified. Only test plots for middle channel presented in this test report as the representative configuration.



FCC ID: NU: YETI44-1M34CNU and CU: YETI41-RECU
IC: N/A

2.10.8 Test Results

WCDMA Band 5 Downlink			
Channel	Frequency (MHz)	OBW (MHz)	-26dB BW (MHz)
4357	871.4	3.87	4.54
4408	881.6	3.87	4.50
4458	891.6	3.88	4.54

WCDMA Band 5 Uplink			
Channel	Frequency (MHz)	OBW (MHz)	-26dB BW (MHz)
4132	826.4	4.04	4.57
4183	836.6	4.05	4.55
4233	846.6	4.05	4.57



FCC ID: NU: YETI44-1M34CNU and CU: YETI41-RECU
IC: N/A

LTE Band 4 Downlink				
Bandwidth (MHz)	Channels	Frequency (MHz)	OBW (MHz)	-26dB BW (MHz)
5 MHz	1975	2112.5	4.63	4.97
	2175	2132.5	4.72	4.94
	2375	2152.5	4.70	4.95
10 MHz	2000	2115.0	9.31	10.04
	2175	2132.5	9.29	9.90
	2350	2150.0	9.30	9.87
15 MHz	2025	2117.5	13.64	14.75
	2175	2132.5	13.61	14.84
	2325	2147.5	13.65	14.76
20 MHz	2050	2120.0	18.35	19.66
	2175	2132.5	18.34	19.64
	2300	2145.0	18.42	19.70

LTE Band 4 Uplink				
Bandwidth (MHz)	Channels	Frequency (MHz)	OBW (MHz)	-26dB BW (MHz)
5 MHz	19975	1712.5	4.64	4.94
	20175	1732.5	4.63	4.93
	20375	1752.5	4.64	4.94
10 MHz	20000	1715.0	9.26	9.91
	20175	1732.5	9.25	9.87
	20350	1750.0	9.24	9.88
15 MHz	20025	1717.5	13.68	14.78
	20175	1732.5	13.65	14.77
	20325	1747.5	13.64	14.77
20 MHz	20050	1720.0	18.45	19.70
	20175	1732.5	18.42	19.70
	20300	1745.0	18.31	19.68



FCC ID: NU: YETI44-1M34CNU and CU: YETI41-RECU

IC: N/A

LTE Band 12 Downlink				
Bandwidth (MHz)	Channels	Frequency (MHz)	OBW (MHz)	-26dB BW (MHz)
5 MHz	5035	731.5	4.70	5.17
	5095	737.5	4.71	5.17
	5155	743.5	4.73	4.99
10 MHz	5060	734.0	9.17	9.82
	5095	737.5	9.19	9.86
	5130	741.0	9.24	9.87

LTE Band 12 Uplink				
Bandwidth (MHz)	Channels	Frequency (MHz)	OBW (MHz)	-26dB BW (MHz)
5 MHz	23035	701.5	4.60	4.92
	23095	707.5	4.64	4.96
	23155	713.5	4.62	4.93
10 MHz	23060	704.0	9.22	9.81
	23095	707.5	9.25	9.84
	23130	711.0	9.22	9.76



FCC ID: NU: YETI44-1M34CNU and CU: YETI41-RECU
IC: N/A

LTE Band 13 Downlink				
Bandwidth (MHz)	Channels	Frequency (MHz)	OBW (MHz)	-26dB BW (MHz)
5 MHz	5205	748.5	4.62	4.96
	5230	751.0	4.62	4.93
	5255	753.5	4.62	4.95
10 MHz	-	-	-	-
	5230	751.0	9.20	9.85
	-	-	-	-

LTE Band 13 Uplink				
Bandwidth (MHz)	Channels	Frequency (MHz)	OBW (MHz)	-26dB BW (MHz)
5 MHz	23205	779.5	4.72	5.00
	23230	782.0	4.63	4.94
	23255	784.5	4.64	4.93
10 MHz	-	-	-	-
	23230	782.0	9.17	9.82
	-	-	-	-



FCC ID: NU: YETI44-1M34CNU and CU: YETI41-RECU

IC: N/A

LTE Band 25 Downlink				
Bandwidth (MHz)	Channels	Frequency (MHz)	OBW (MHz)	-26dB BW (MHz)
5 MHz	8065	1932.5	4.48	4.97
	8365	1962.5	4.47	4.95
	8665	1992.5	4.63	4.95
10 MHz	8090	1935.0	8.95	9.63
	8365	1962.5	8.96	9.66
	8640	1990.0	8.95	9.85
15 MHz	8115	1937.5	13.33	14.63
	8365	1962.5	13.37	14.68
	8615	1987.5	13.32	14.69
20 MHz	8140	1940.0	17.83	19.53
	8365	1962.5	17.84	19.51
	8590	1985.0	17.93	19.60

LTE Band 25 Uplink				
Bandwidth (MHz)	Channels	Frequency (MHz)	OBW (MHz)	-26dB BW (MHz)
5 MHz	26065	1852.5	4.47	4.93
	26365	1882.5	4.46	4.93
	26665	1912.5	4.47	4.93
10 MHz	26090	1855.0	8.89	9.86
	26365	1882.5	8.98	9.88
	26640	1910.0	8.95	9.85
15 MHz	26115	1857.5	13.43	14.40
	26365	1882.5	13.37	14.32
	26615	1907.5	13.32	14.38
20 MHz	26140	1860.0	17.98	19.44
	26365	1882.5	18.36	19.55
	26590	1905.0	17.87	19.30



FCC ID: NU: YETI44-1M34CNU and CU: YETI41-RECU
IC: N/A

LTE Band 30 Downlink				
Bandwidth (MHz)	Channels	Frequency (MHz)	OBW (MHz)	-26dB BW (MHz)
5 MHz	9795	2352.5	4.69	5.00
	9820	2355.0	4.61	4.99
	9845	2357.5	4.61	5.01
10 MHz	-	-	-	-
	9820	2355.0	9.20	9.81
	-	-	-	-

LTE Band 30 Uplink				
Bandwidth (MHz)	Channels	Frequency (MHz)	OBW (MHz)	-26dB BW (MHz)
5 MHz	27685	2307.5	4.63	4.93
	27710	2310.0	4.63	4.95
	27735	2312.5	4.63	4.95
10 MHz	-	-		
	27710	2310.0	9.24	9.75
	-	-		



FCC ID: NU: YETI44-1M34CNU and CU: YETI41-RECU
IC: N/A

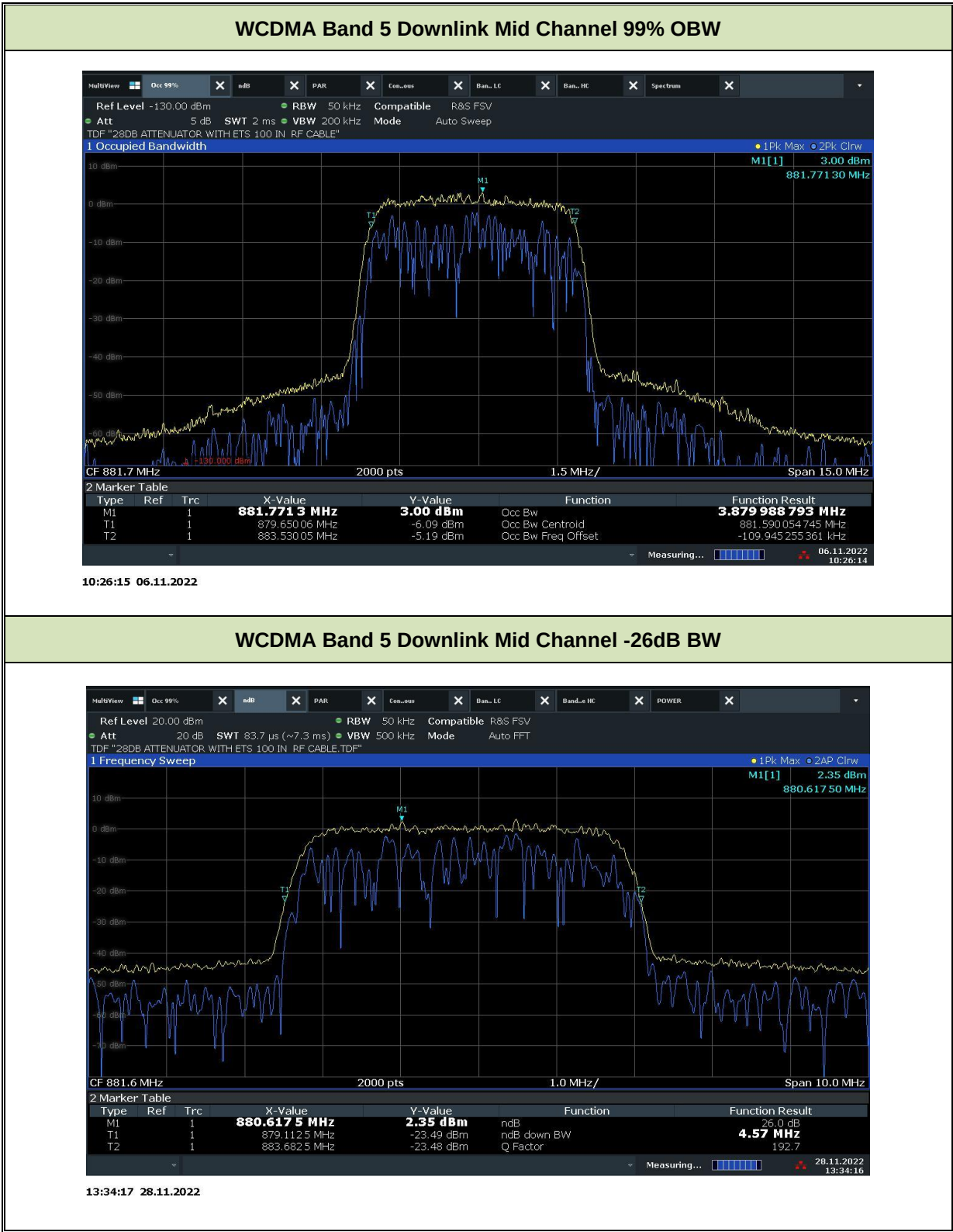
LTE Band 71 Downlink				
Bandwidth (MHz)	Channels	Frequency (MHz)	OBW (MHz)	-26dB BW (MHz)
5 MHz	68611	619.5	4.70	5.00
	68761	634.5	4.63	4.95
	68911	649.5	4.64	4.96
10 MHz	68636	622.0	9.21	9.90
	68761	634.5	9.25	9.91
	68886	647.0	9.19	9.88
15 MHz	68661	624.5	13.56	14.71
	68761	634.5	13.67	14.85
	68861	644.5	13.53	14.70
20 MHz	68686	627.0	18.34	19.61
	68761	634.5	18.44	19.66
	68836	642.0	18.37	19.66

LTE Band 71 Uplink				
Bandwidth (MHz)	Channels	Frequency (MHz)	OBW (MHz)	-26dB BW (MHz)
5 MHz	133147	665.5	4.60	4.91
	133297	680.5	4.64	4.93
	133447	695.5	4.63	4.93
10 MHz	133172	668.0	9.20	9.84
	133297	680.5	9.24	9.87
	133422	693.0	9.23	9.86
15 MHz	133197	670.5	13.53	14.70
	133297	680.5	13.64	14.75
	133397	690.5	13.68	14.73
20 MHz	133222	673.0	18.23	19.60
	133297	680.5	18.36	19.68
	133372	688.0	18.46	19.68



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IC: N/A

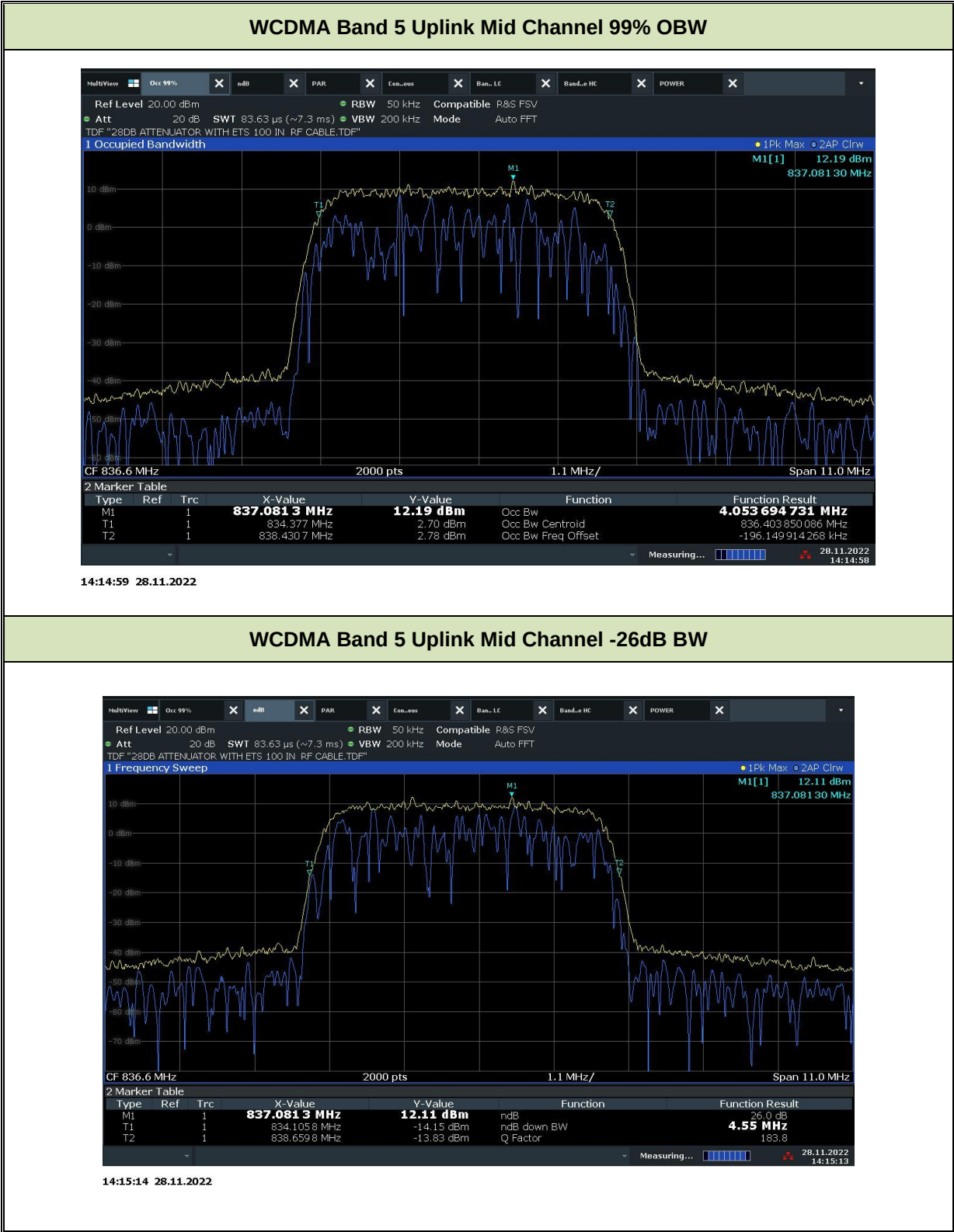
Product Service





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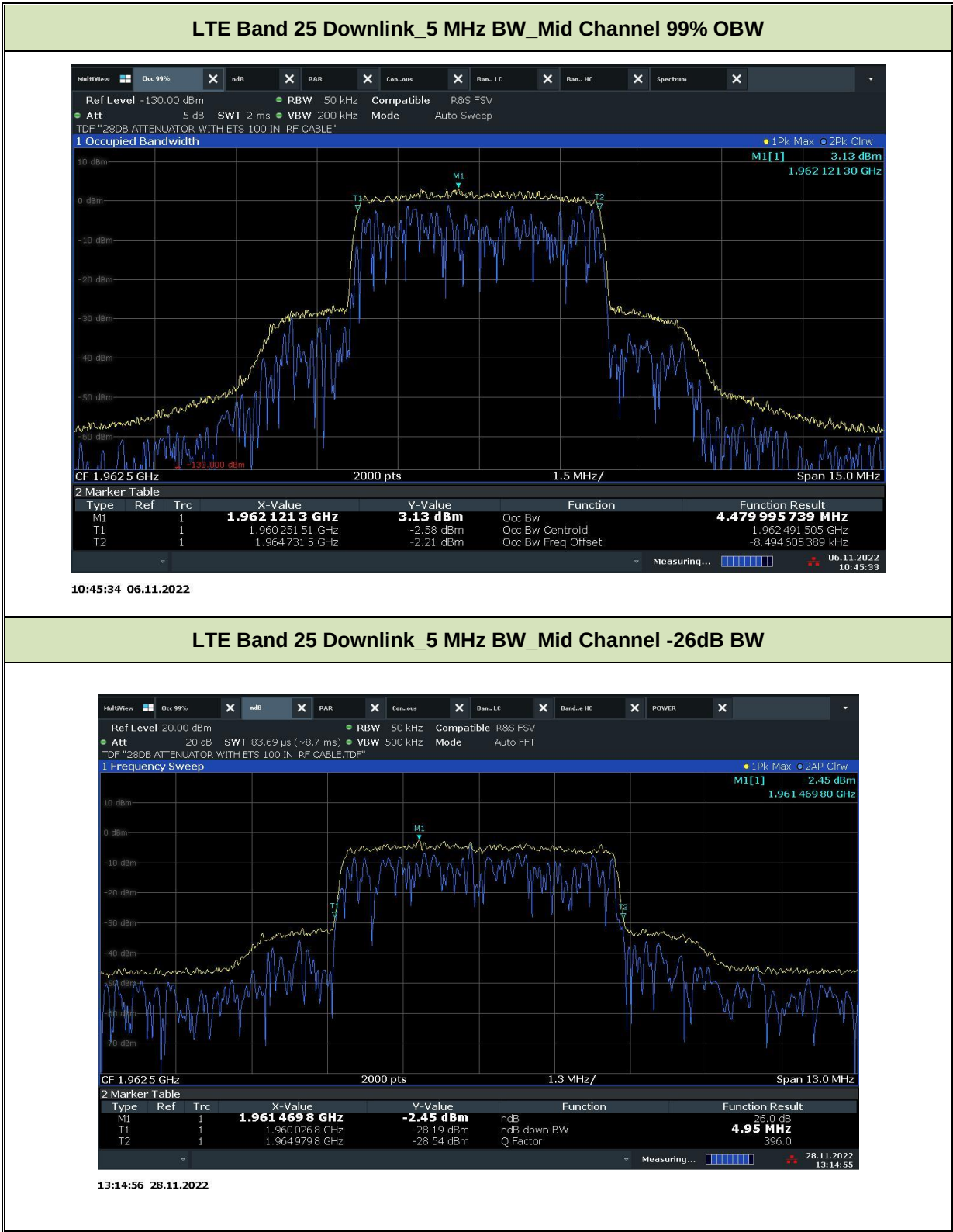
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Product Service

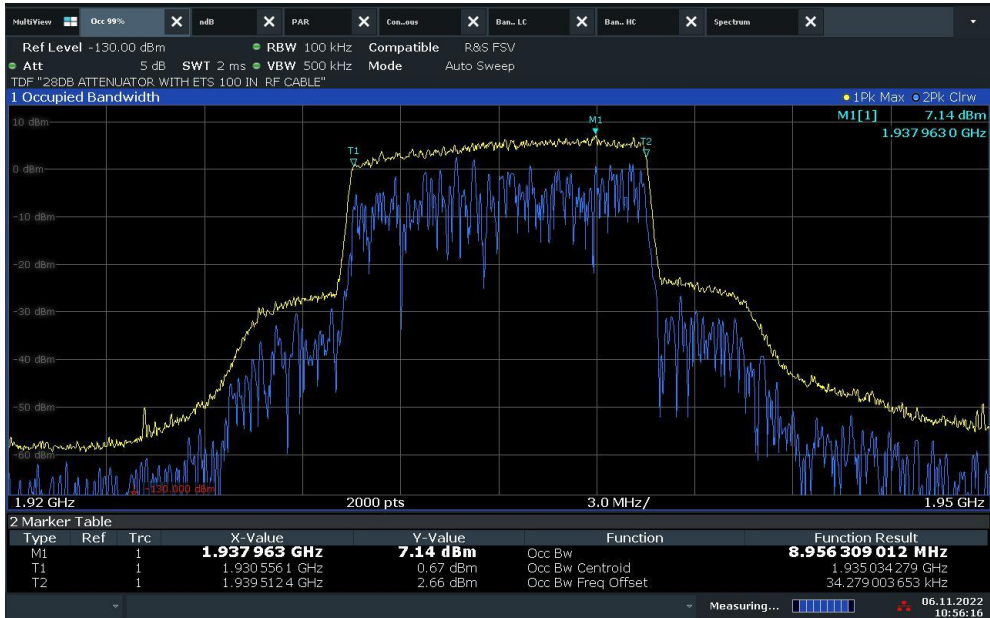




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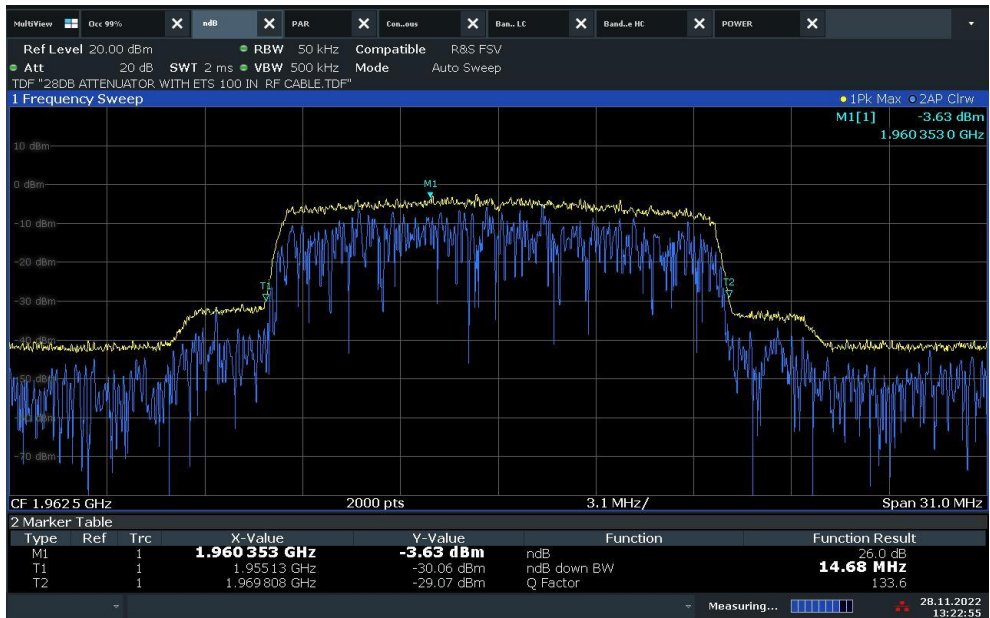
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LTE Band 25 Downlink_10 MHz BW_Mid Channel 99% OBW



10:56:17 06.11.2022

LTE Band 25 Downlink_10 MHz BW_Mid Channel -26dB BW

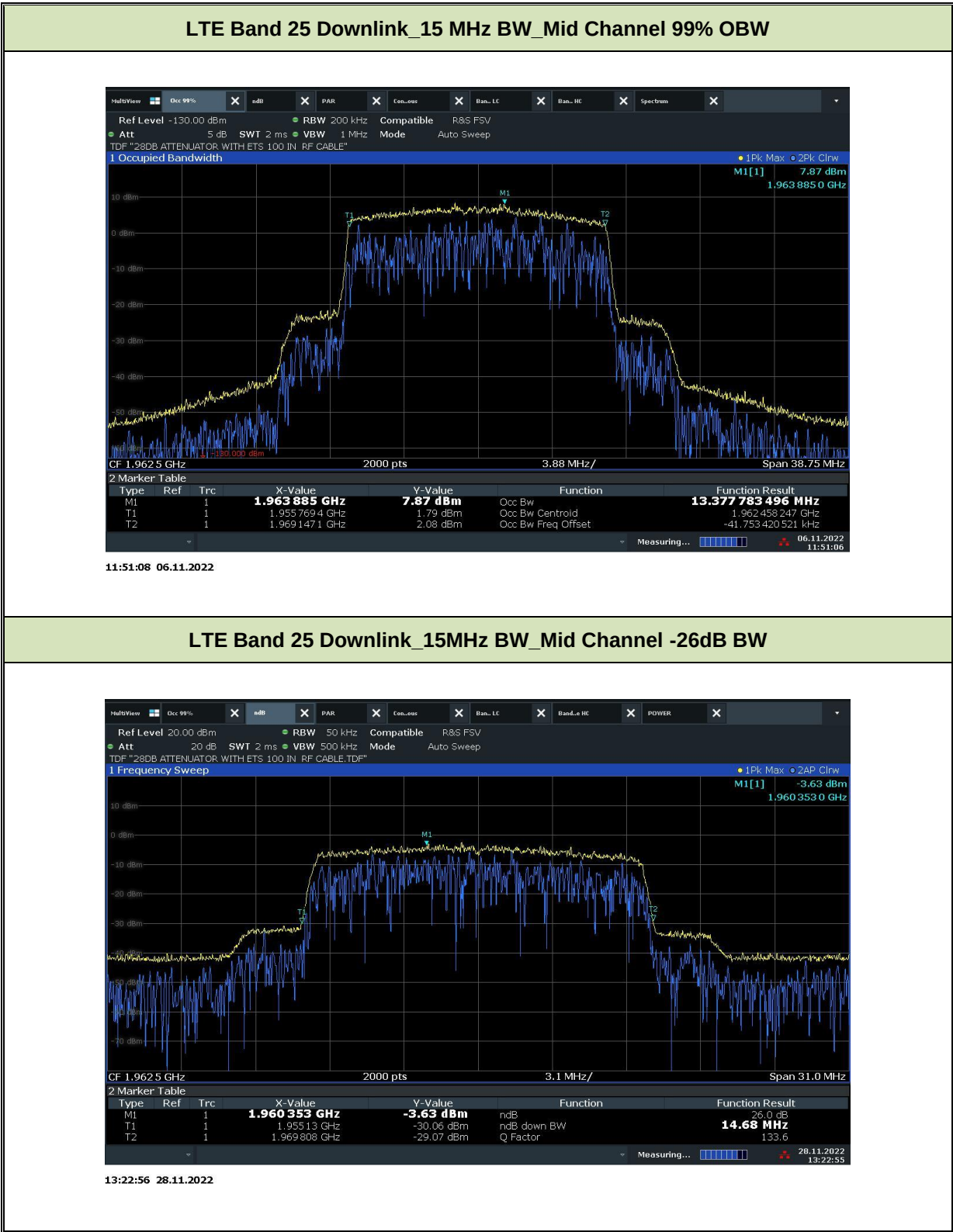


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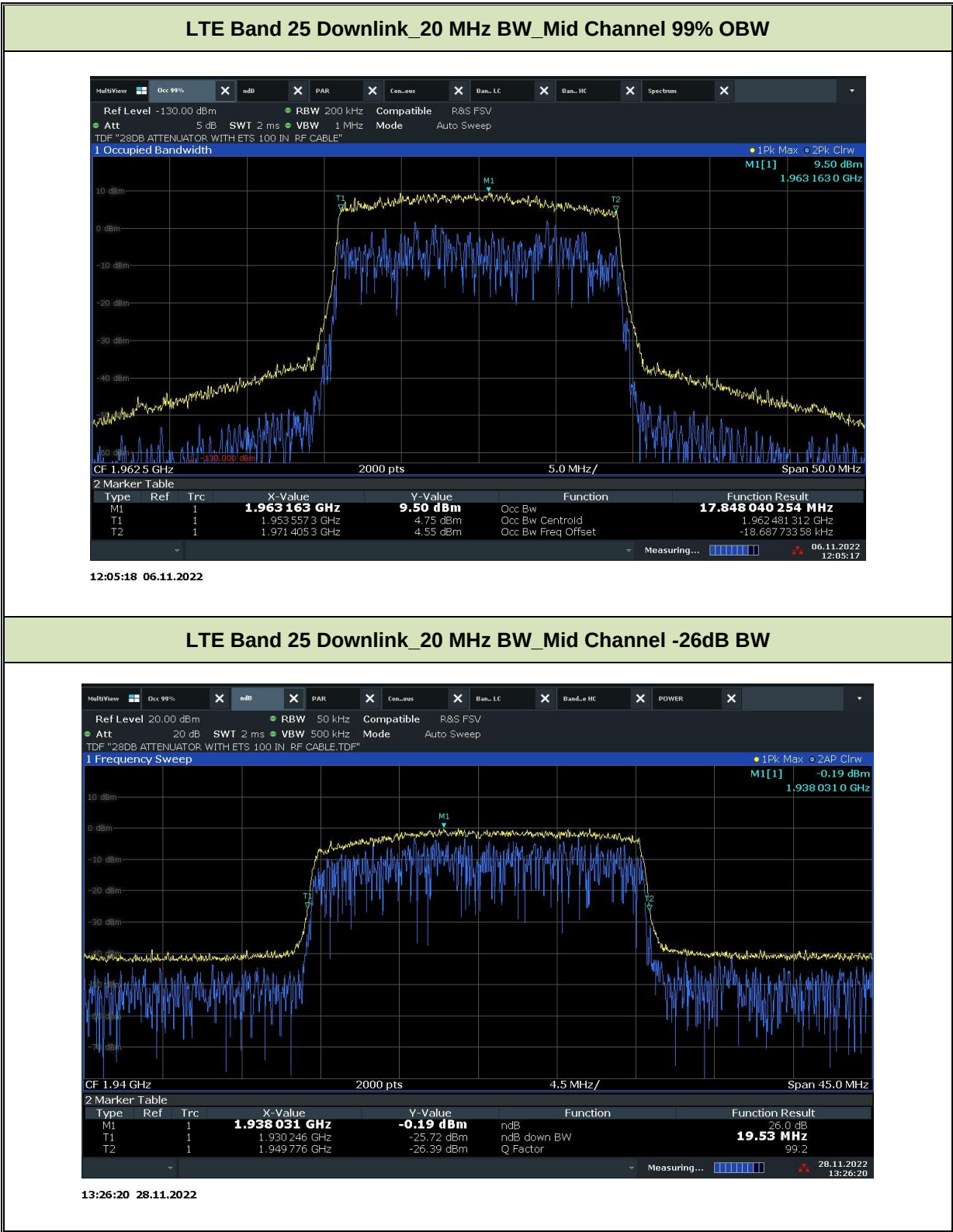
Product Service





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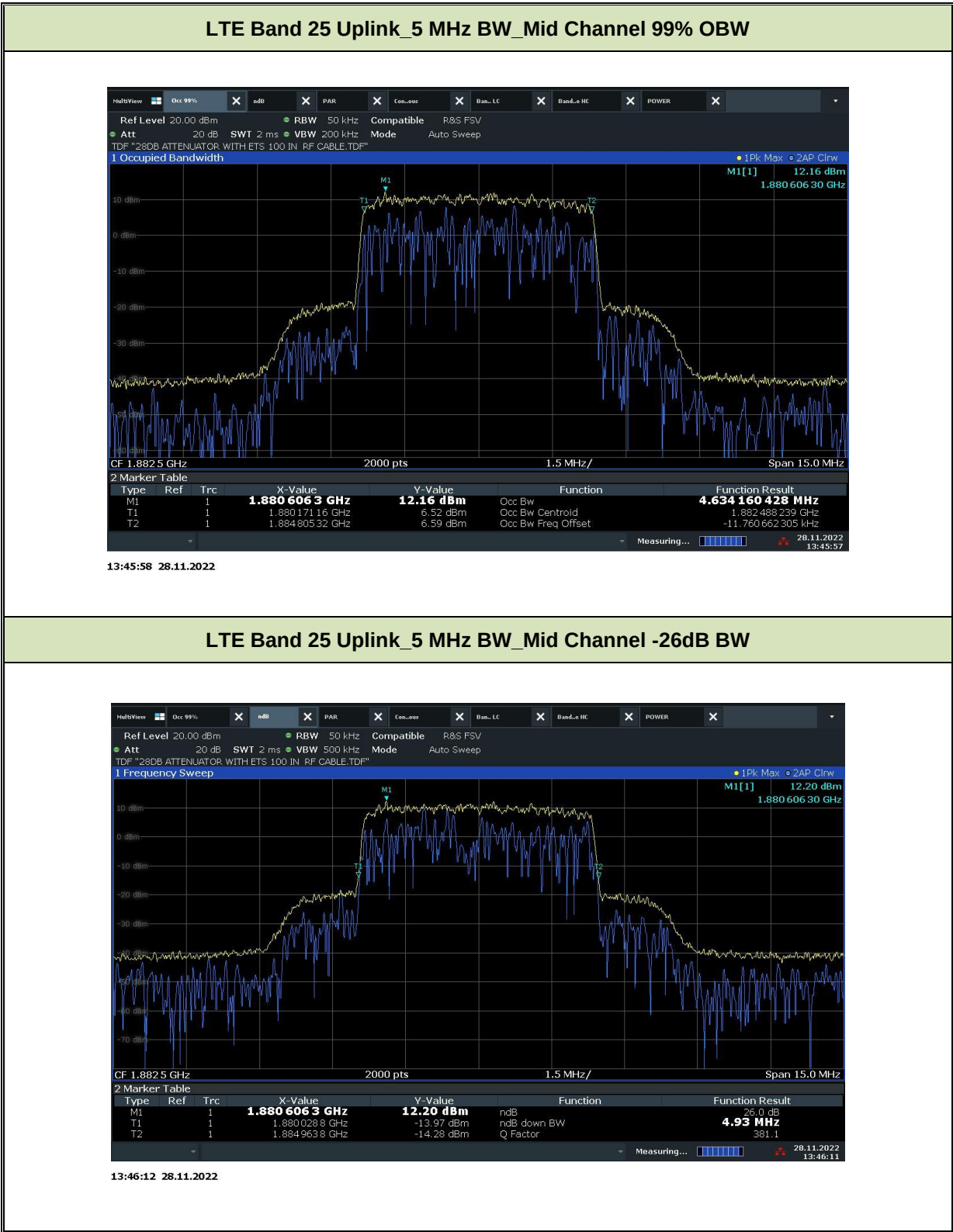
Product Service





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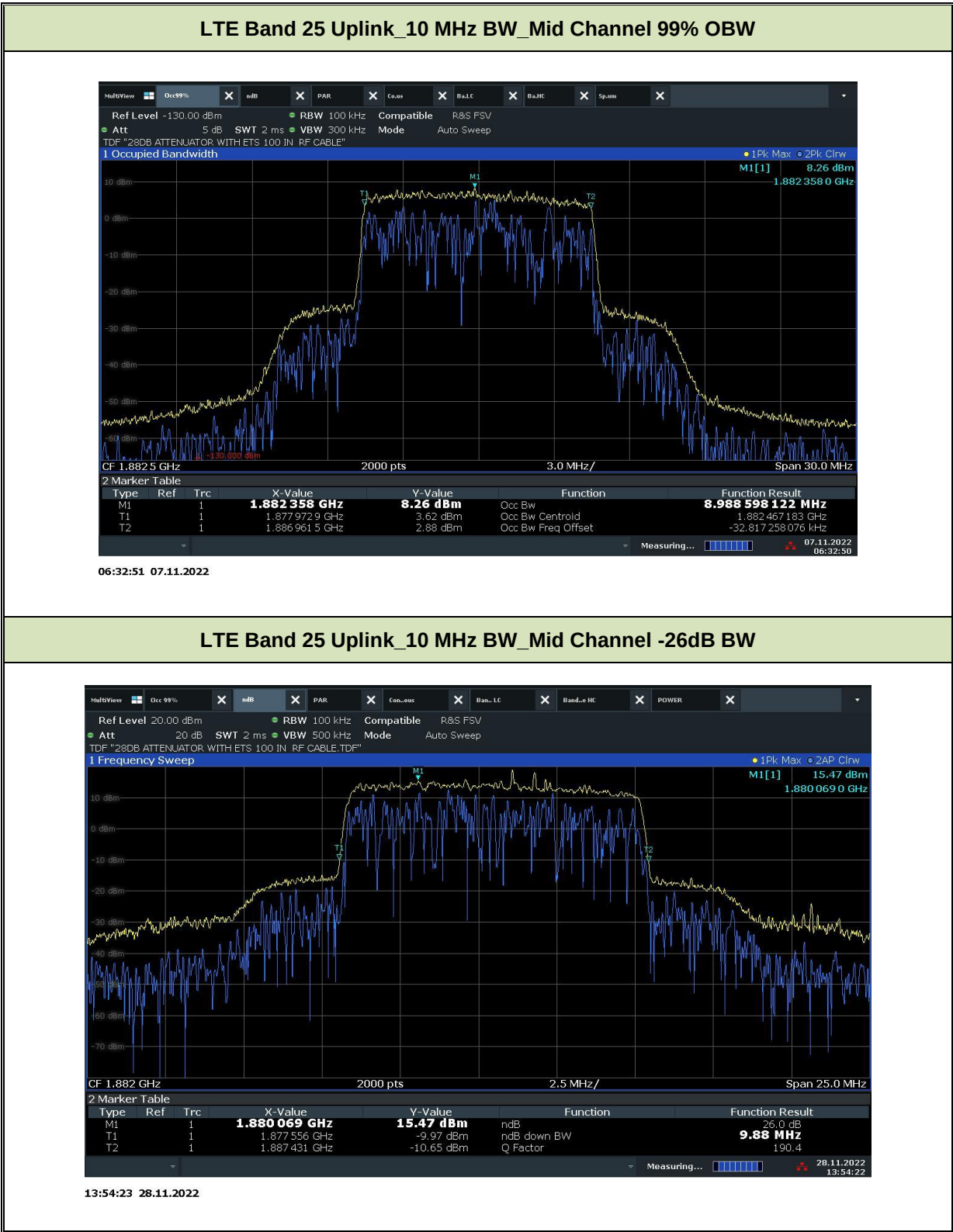
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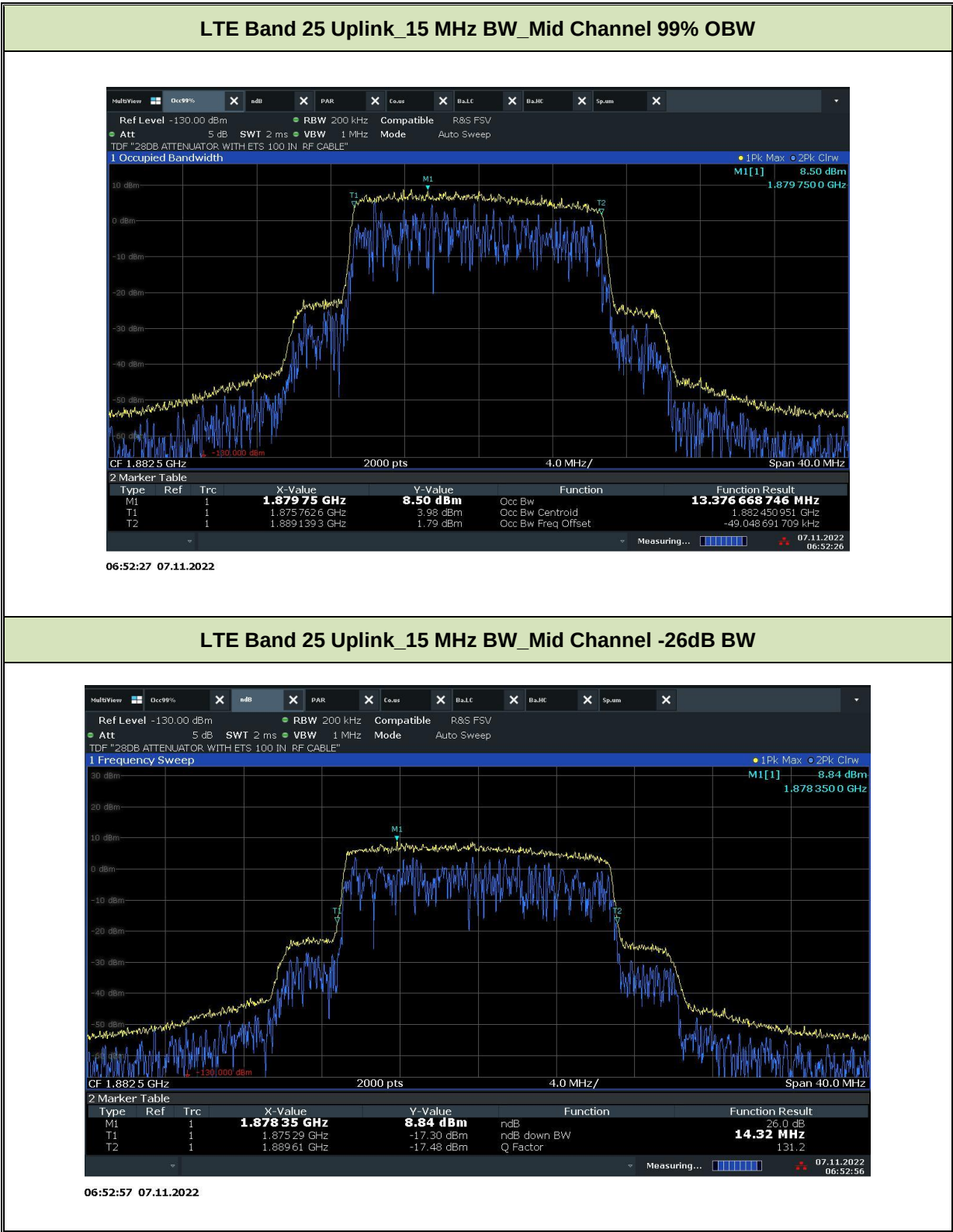
Product Service





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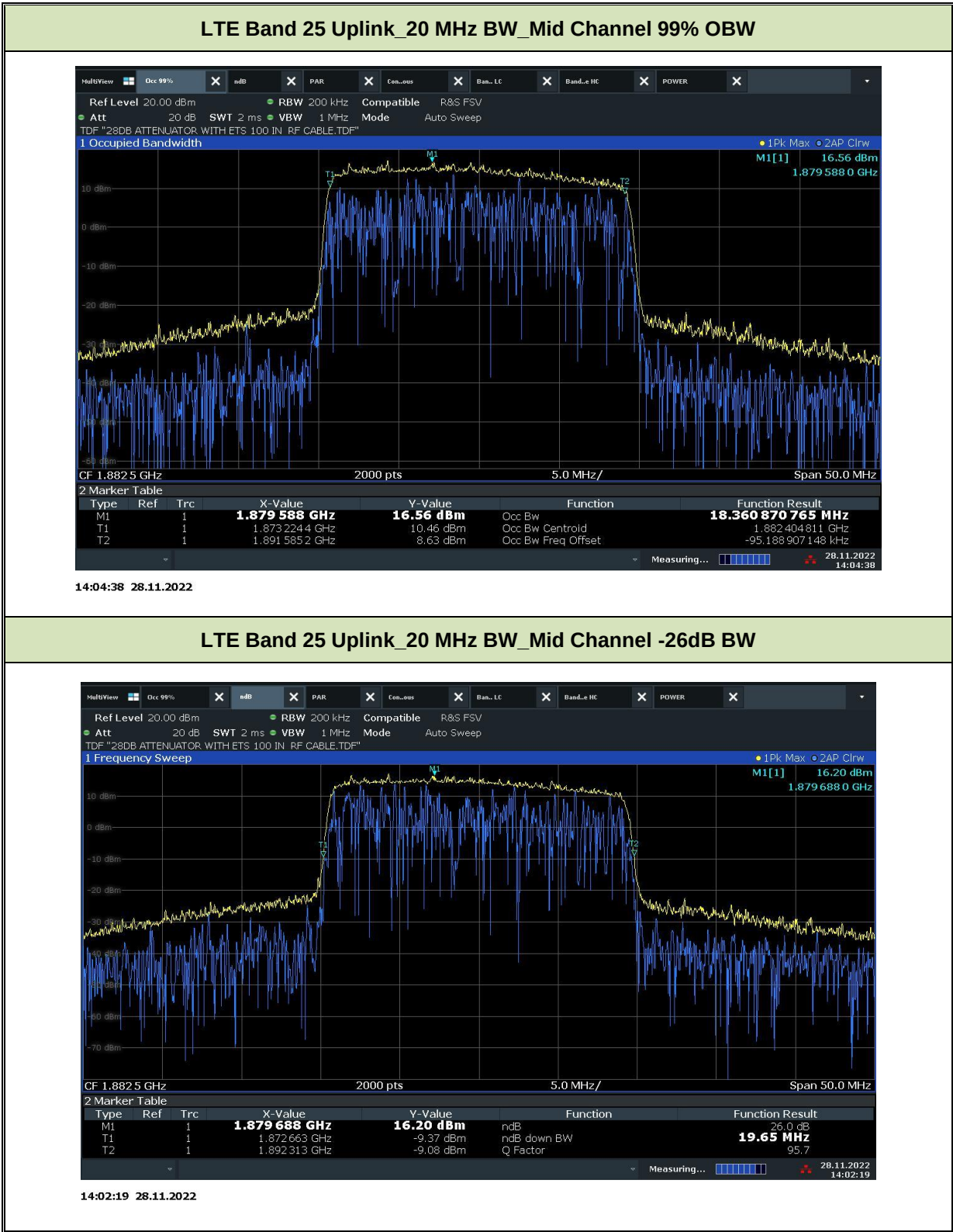
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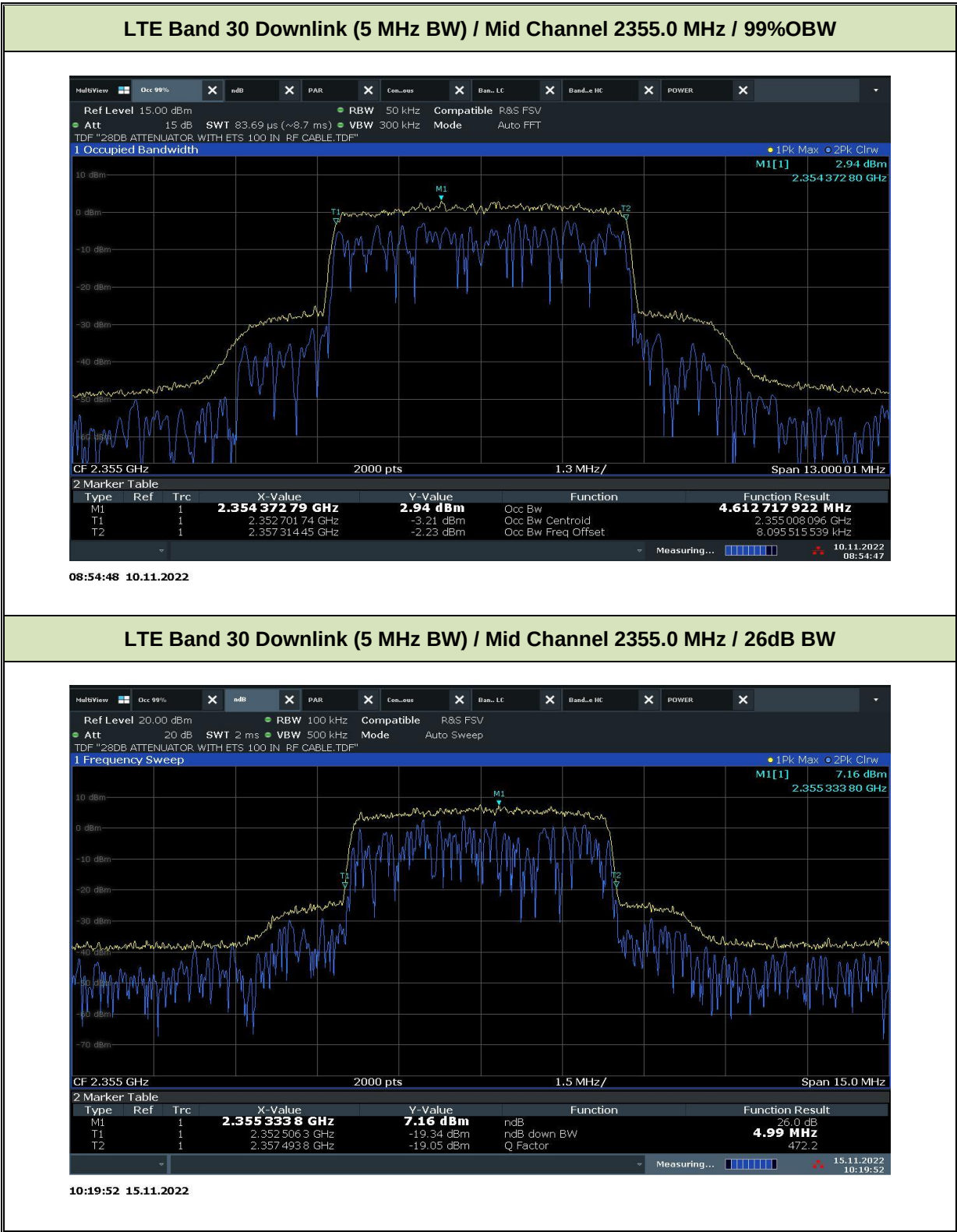
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Product Service

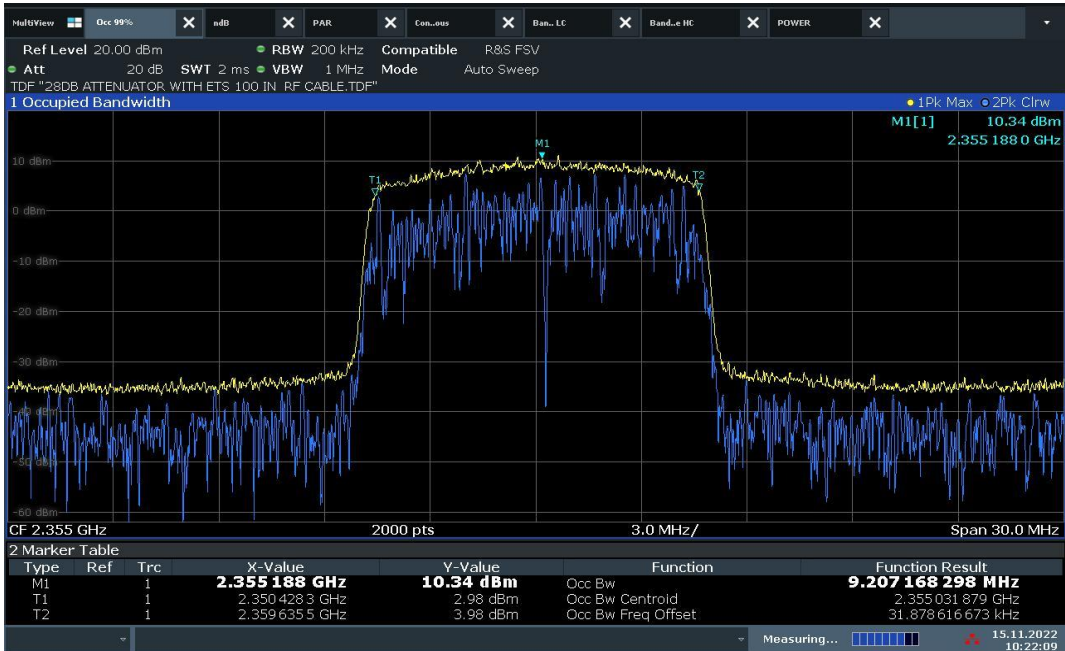




FCC ID: NU: YETI44-1M34CNU and CU: YETI41-RECU
IC: N/A

Product Service

LTE Band 30 Downlink (10 MHz BW) / Mid Channel 2355.0 MHz / 99%OBW



10:22:10 15.11.2022

LTE Band 30 Downlink (10 MHz BW) / Mid Channel 2355.0 MHz / 26dB BW

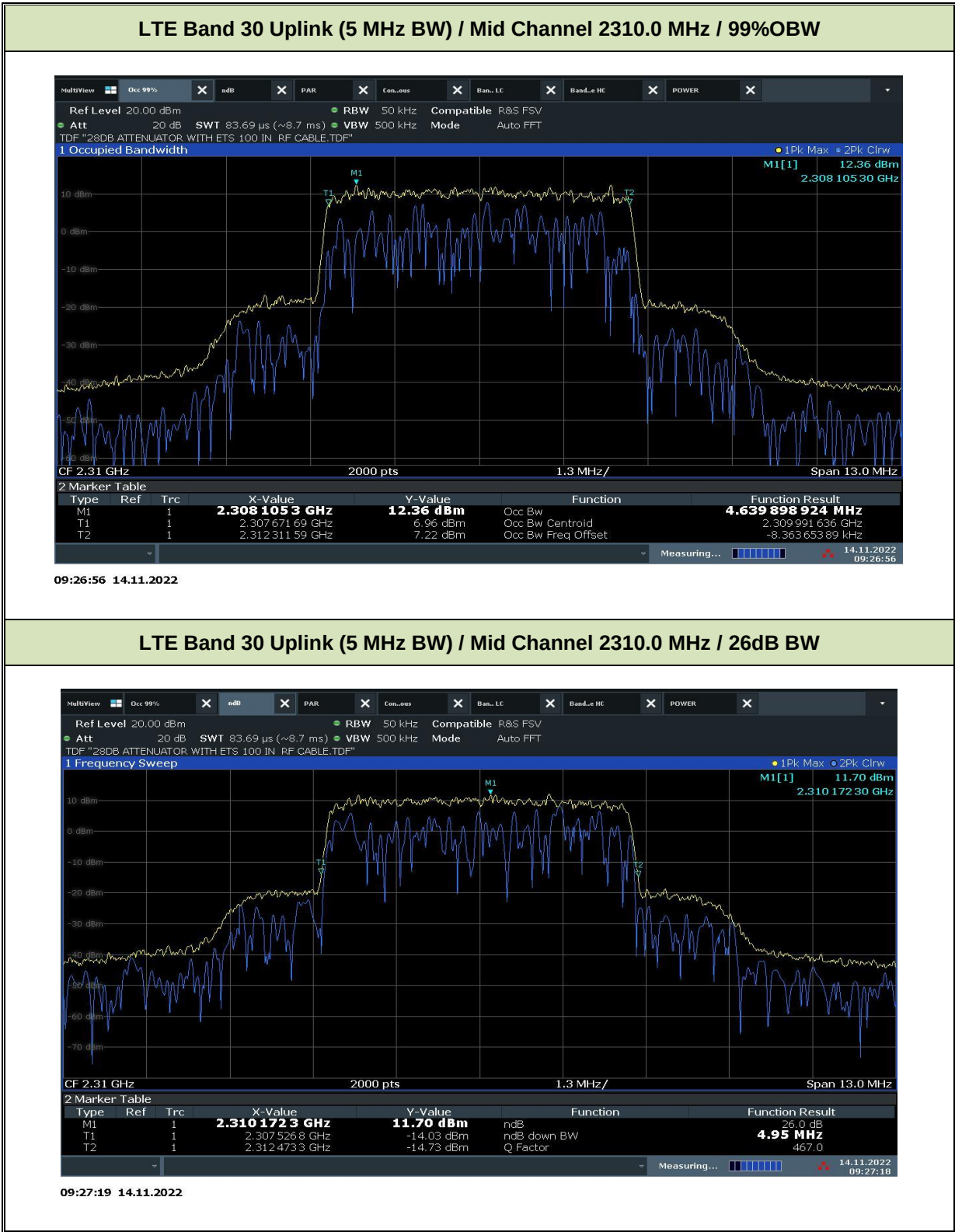


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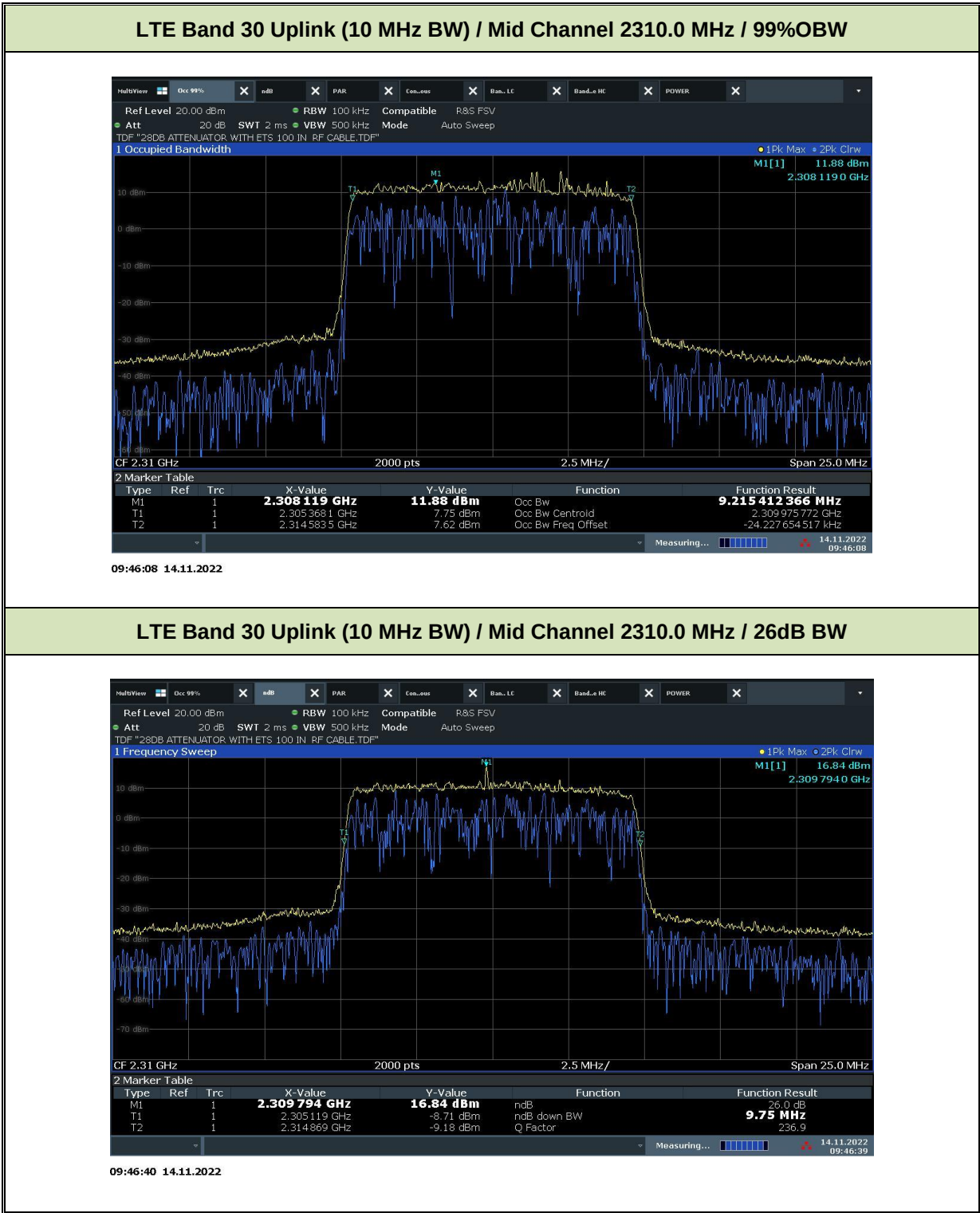
Product Service





FCC ID: NU: YETI44-1M34CNU and CU: YETI41-RECU
IC: N/A

Product Service





FCC ID: NU: YETI44-1M34CNU and CU: YETI41-RECU
IC: N/A

Product Service

LTE Band 71 Downlink (5 MHz BW) / Mid Channel 634.5 MHz / 99%OBW



06:43:27 13.11.2022

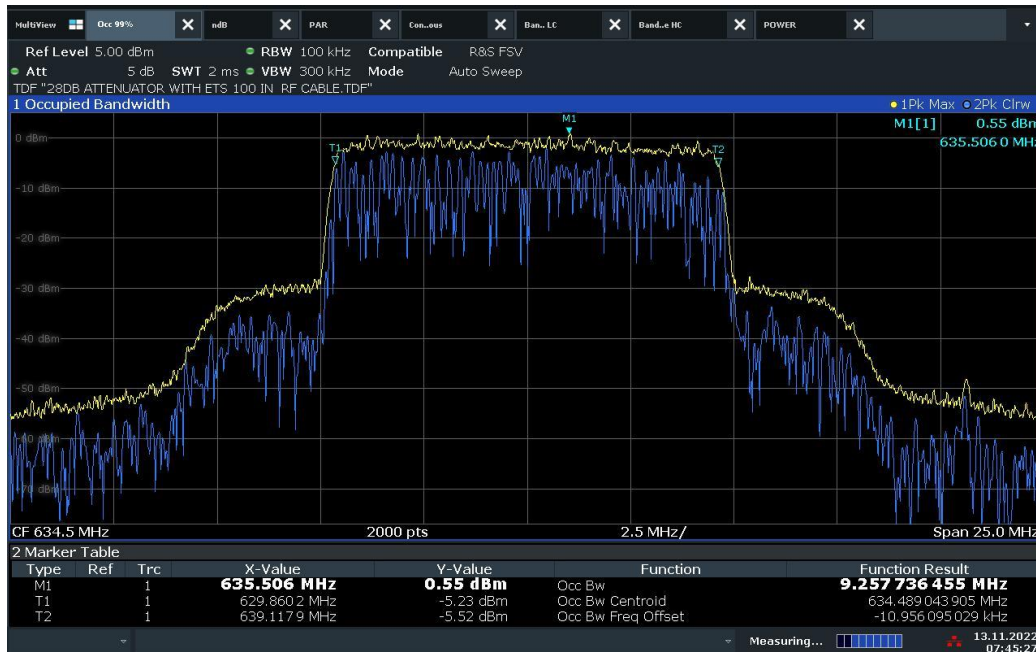
LTE Band 71 Downlink (5 MHz BW) / Mid Channel 634.5 MHz / 26dB BW



06:43:53 13.11.2022

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IC: N/A

Product Service

LTE Band 71 Downlink (10 MHz BW) / Mid Channel 634.5 MHz / 99%OBW

07:45:27 13.11.2022

LTE Band 71 Downlink (10 MHz BW) / Mid Channel 634.5 MHz / 26dB BW

07:46:27 13.11.2022



FCC ID: NU: YETI44-1M34CNU and CU: YETI41-RECU
IC: N/A

Product Service

