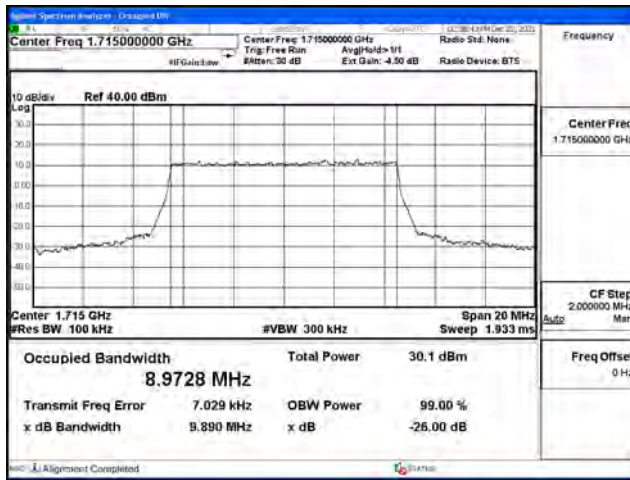
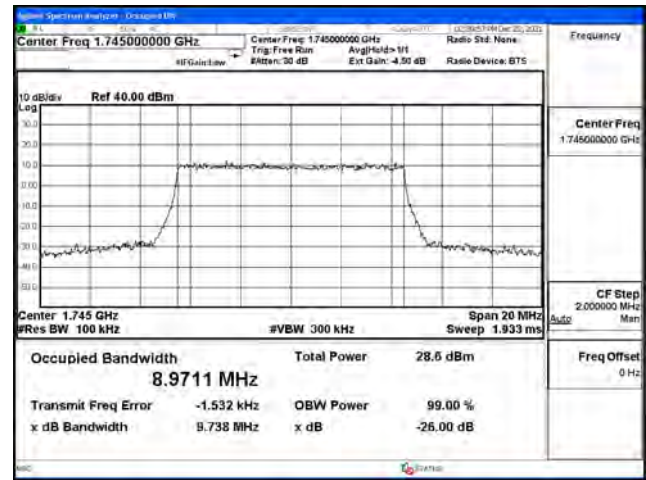


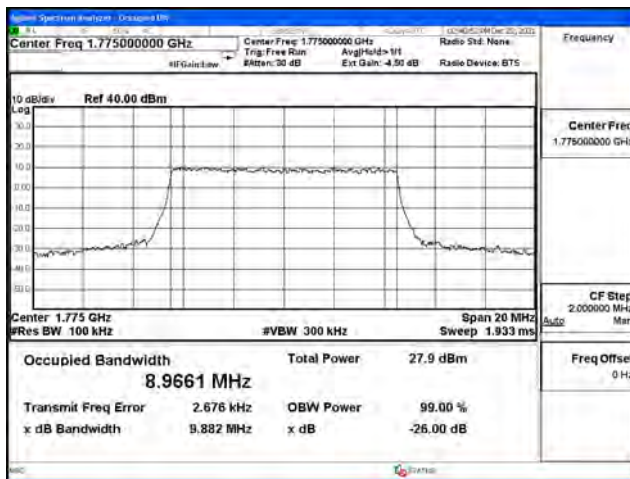
QPSK_CH132022_10M_50RB0



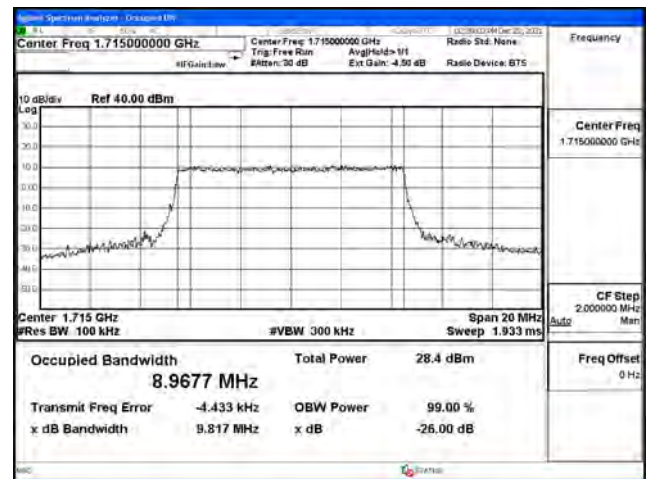
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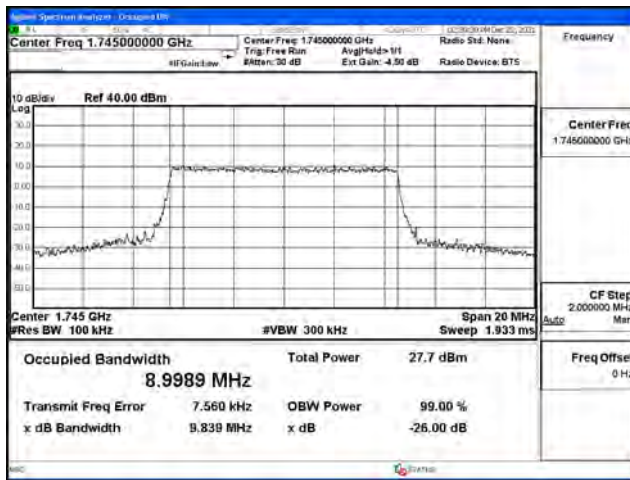
QPSK_CH132622_10M_50RB0



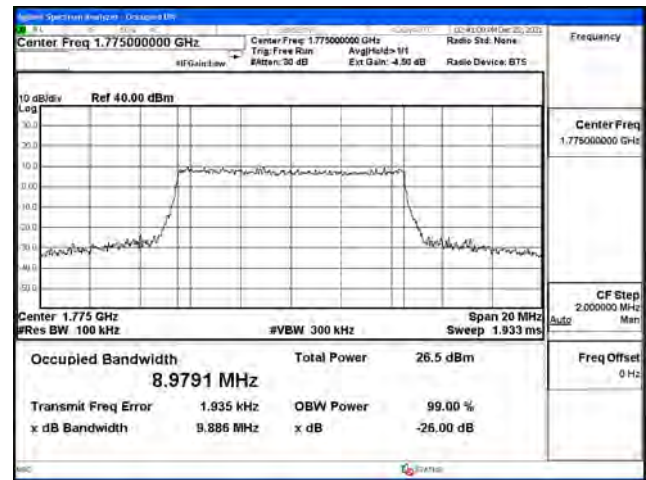
16QAM_CH132022_10M_50RB0



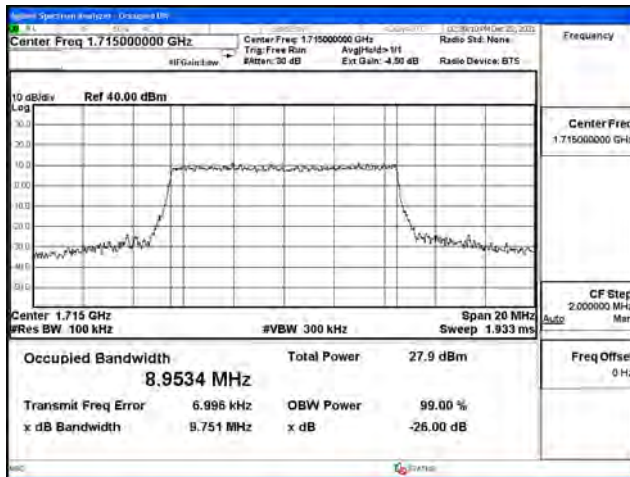
16QAM_CH132322_10M_50RB0



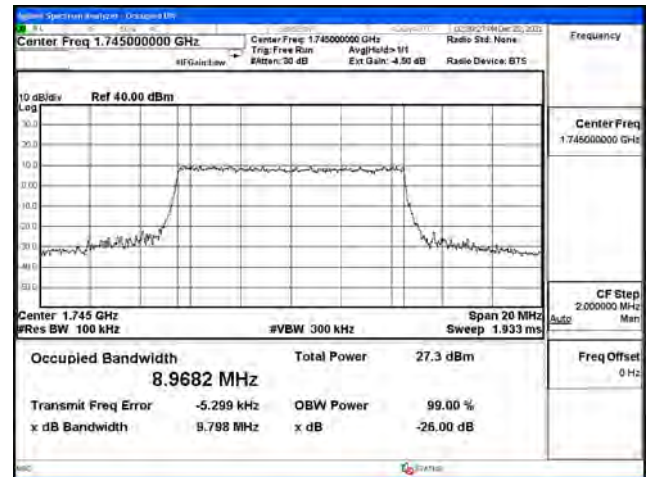
16QAM_CH132622_10M_50RB0



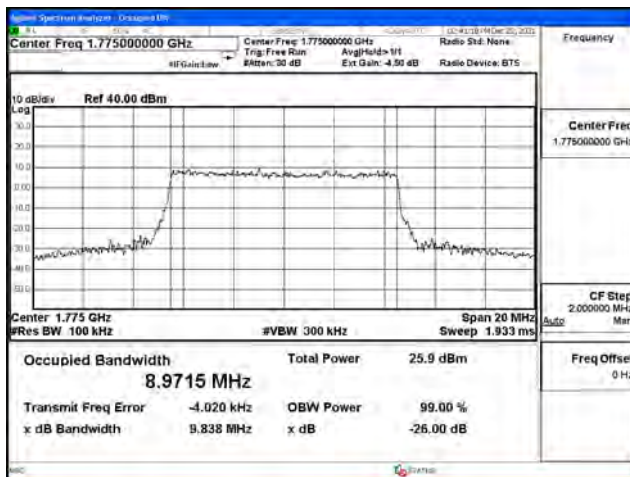
64QAM_CH132022_10M_50RB0



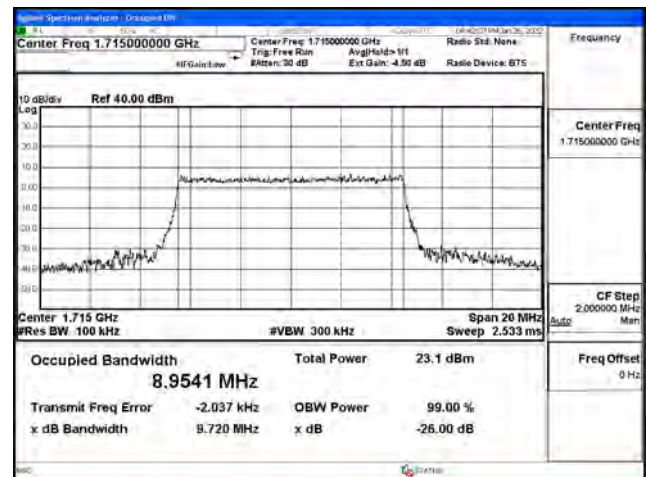
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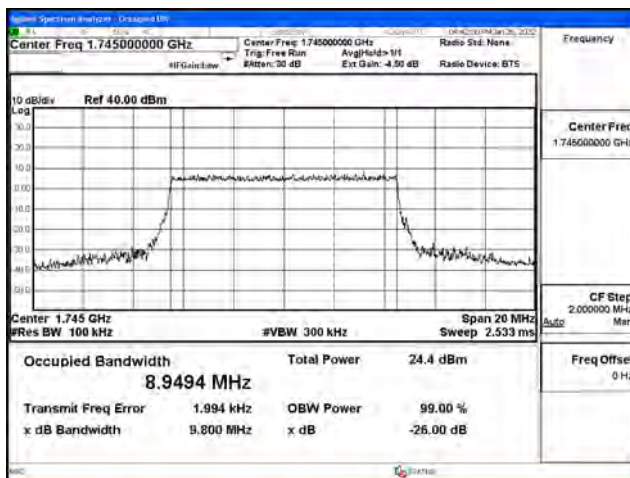
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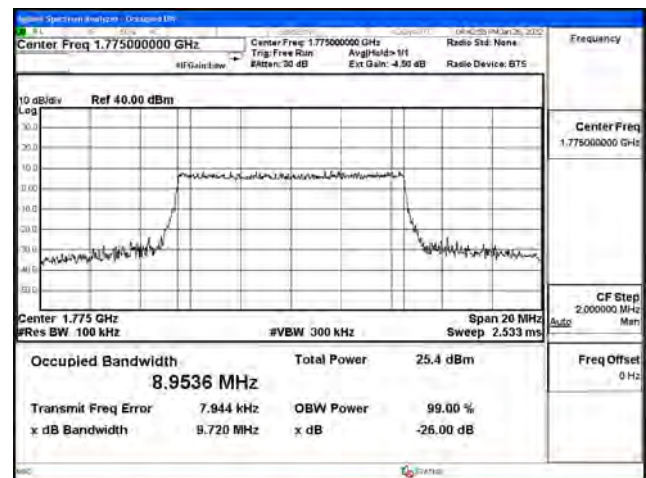
256QAM_CH132022_10M_50RB0



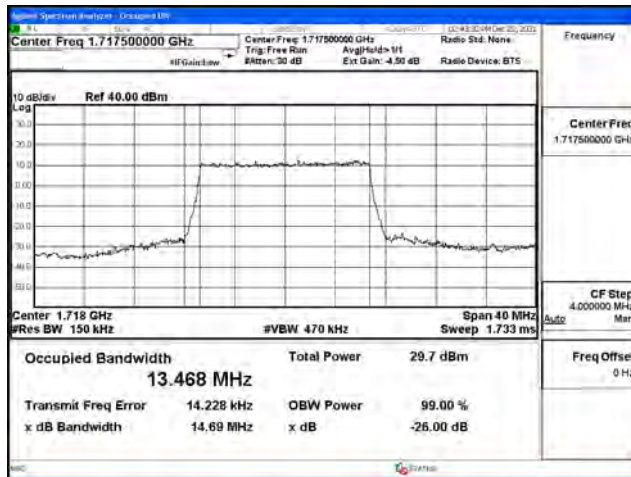
256QAM_CH132322_10M_50RB0



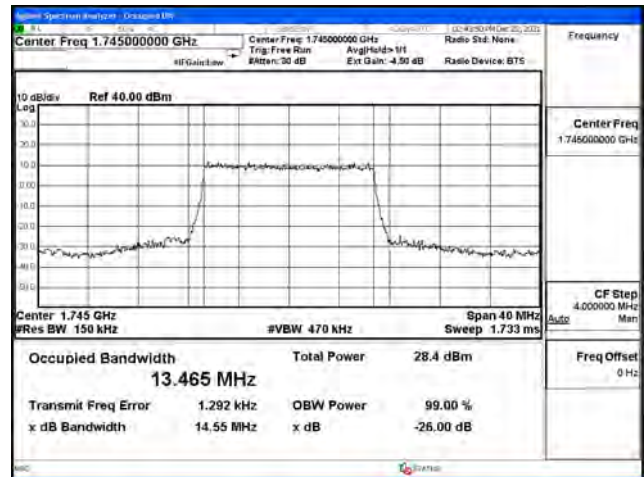
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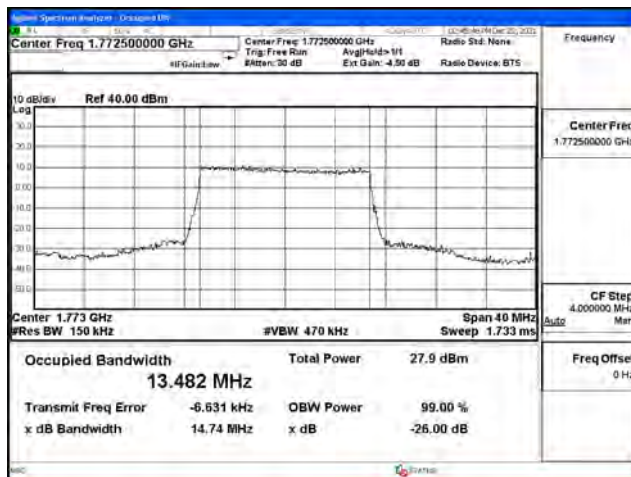
QPSK_CH132047_15M_75RB0



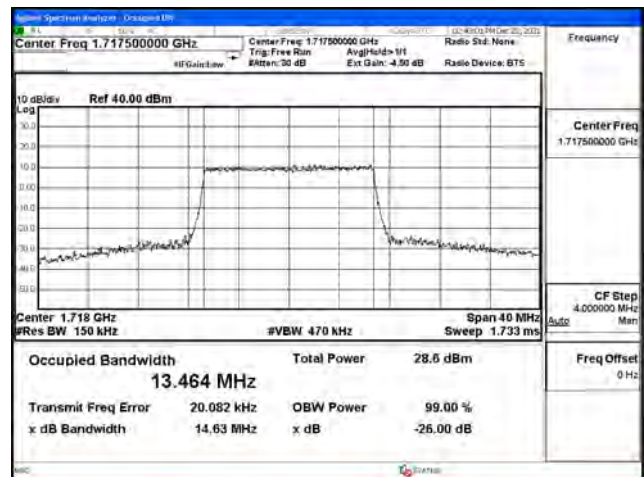
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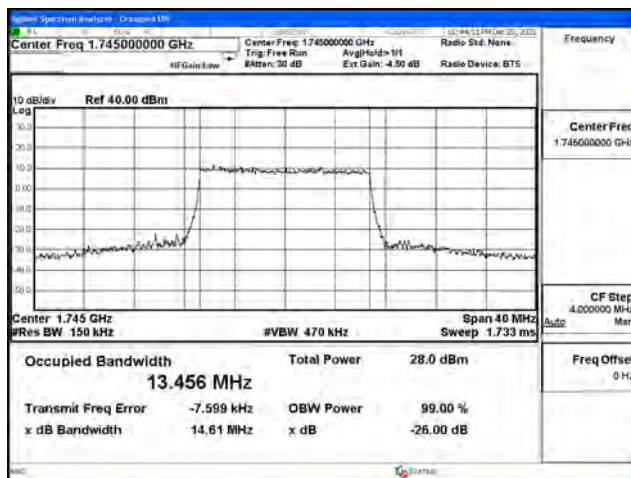
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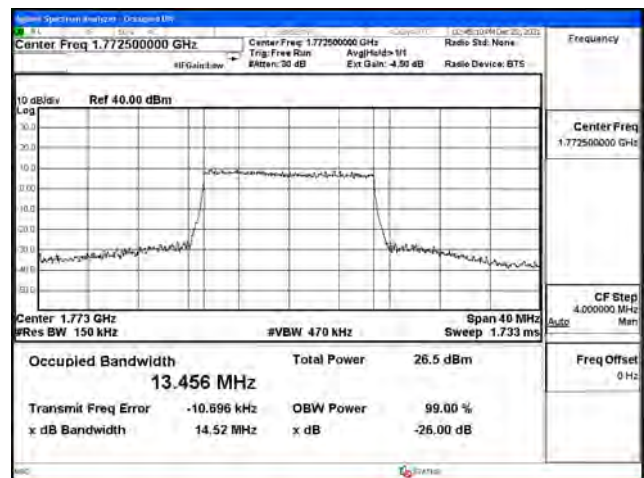
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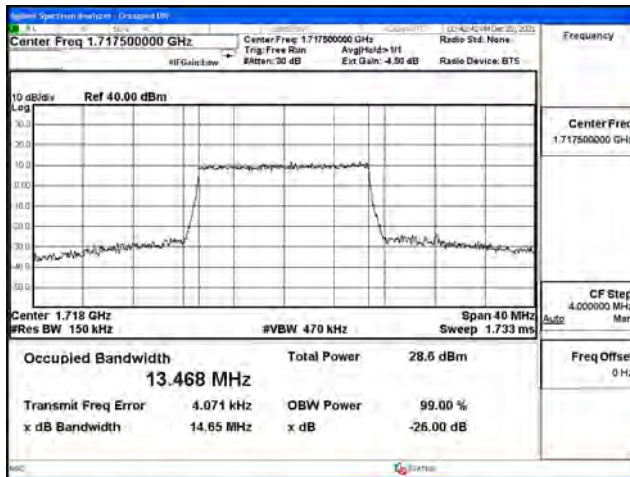
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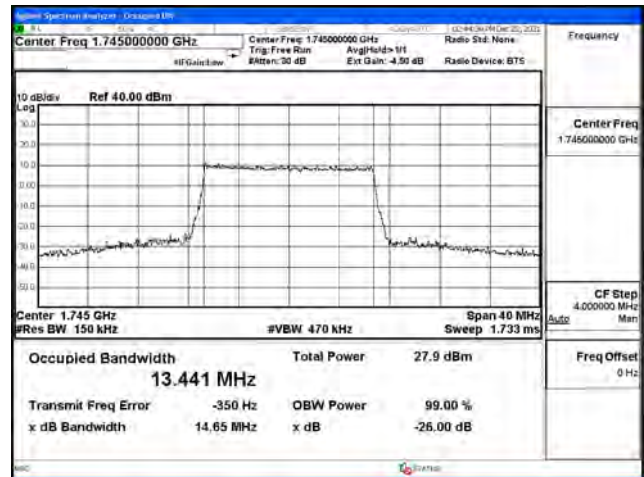
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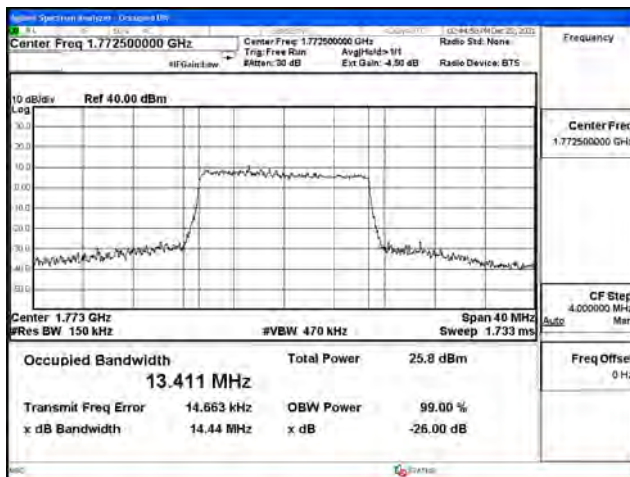
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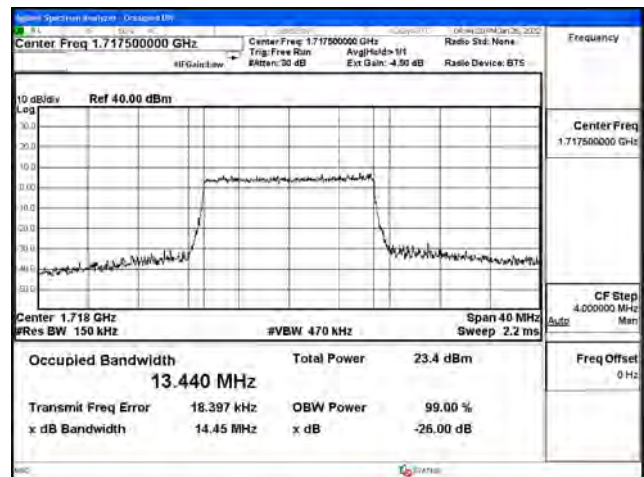
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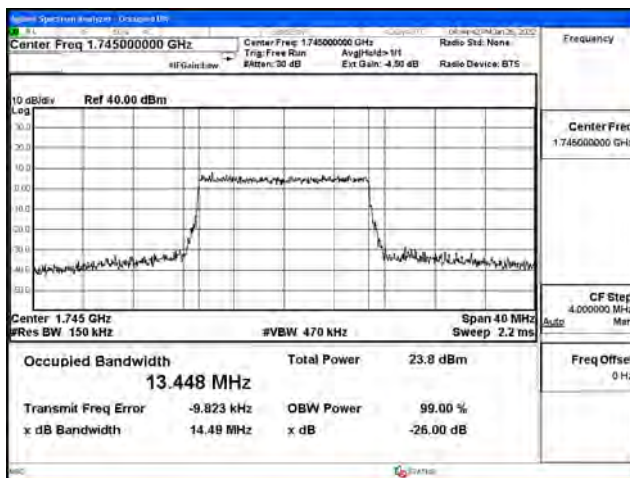
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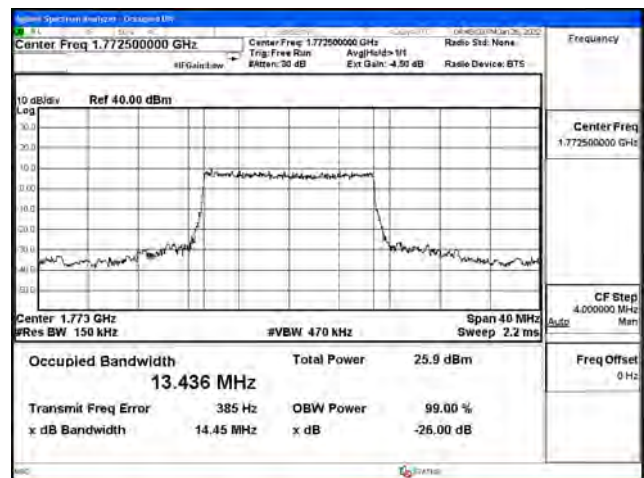
256QAM_CH132047_15M_75RB0



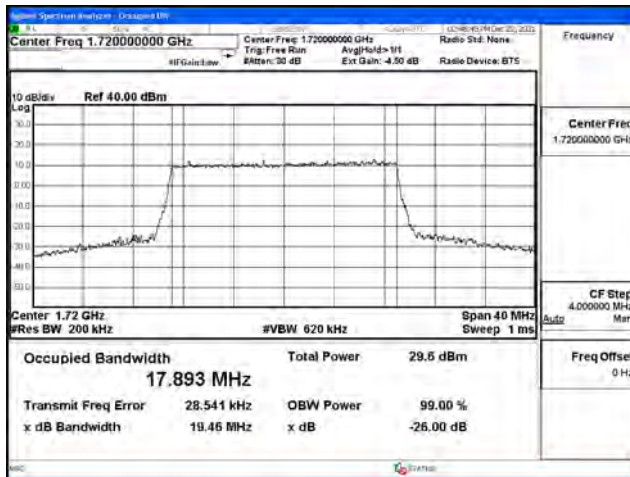
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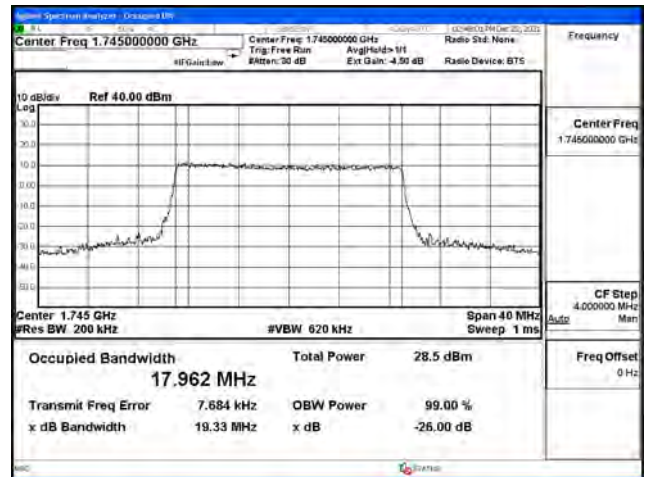
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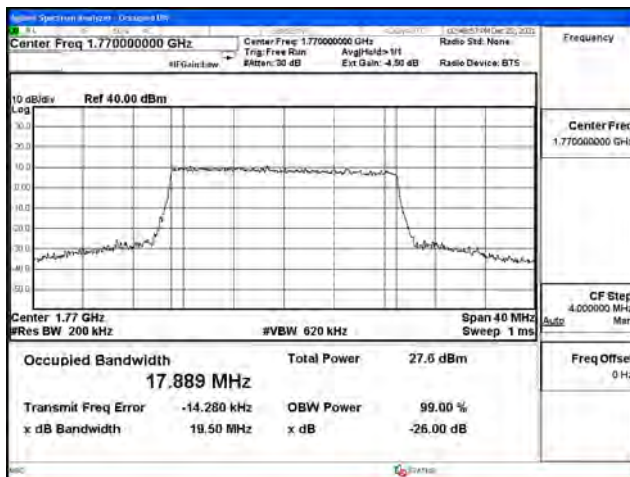
QPSK_CH132072_20M_100RB0



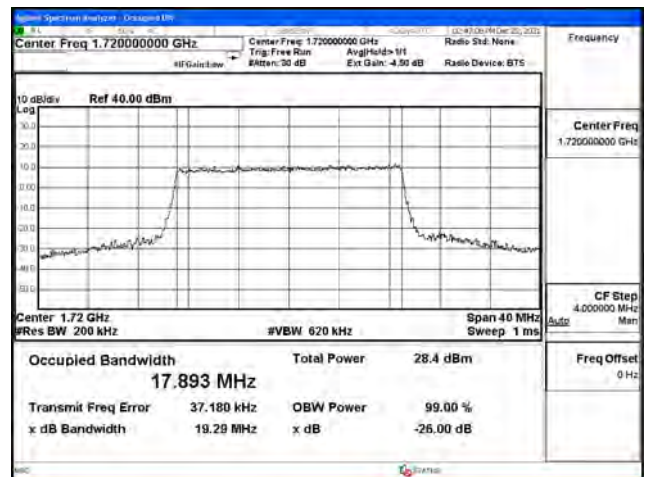
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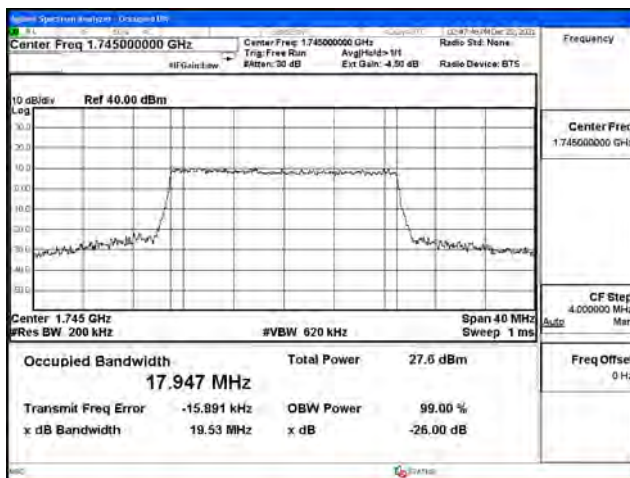
QPSK_CH CH132572_20M_100RB0



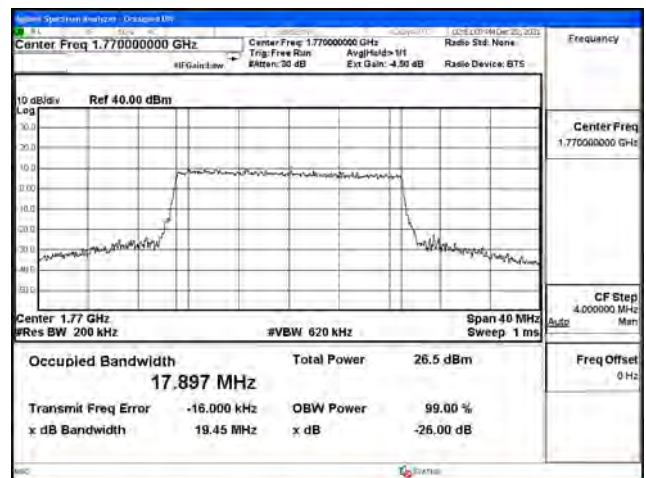
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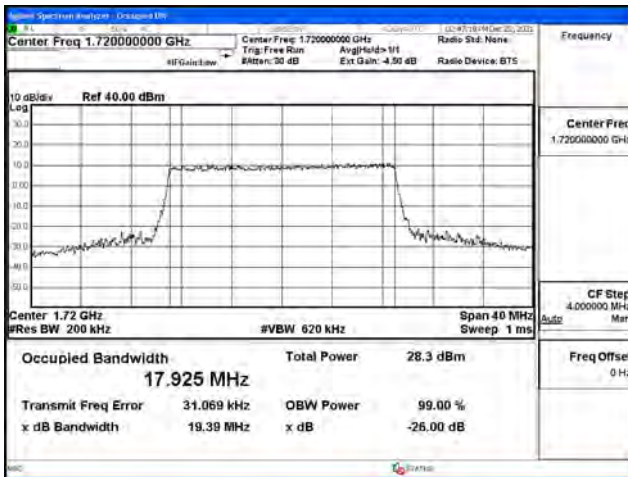
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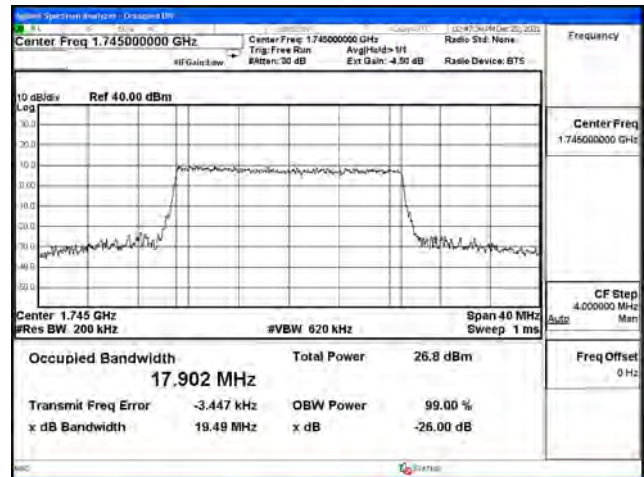
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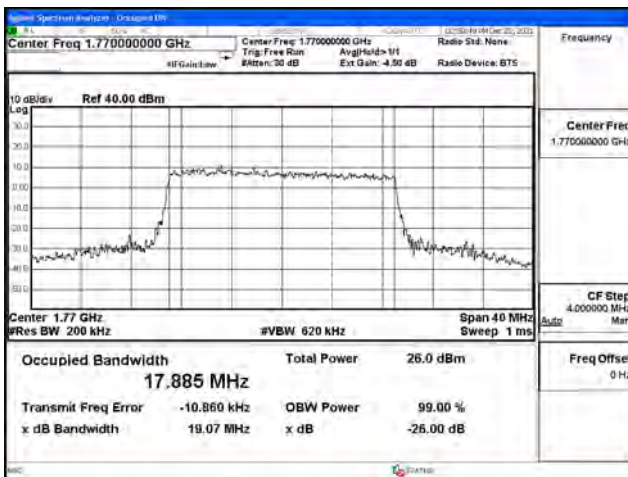
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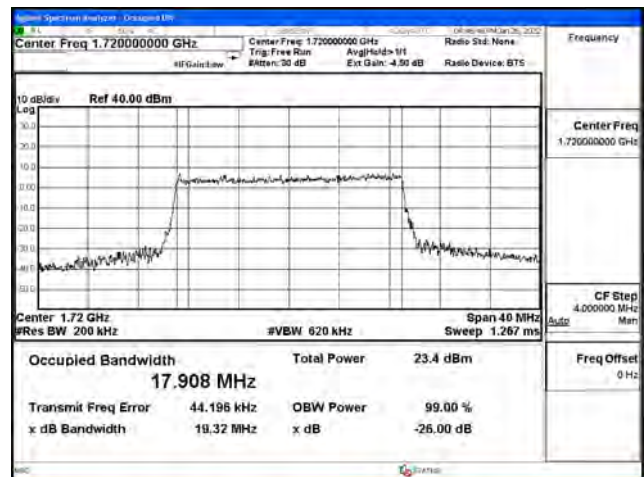
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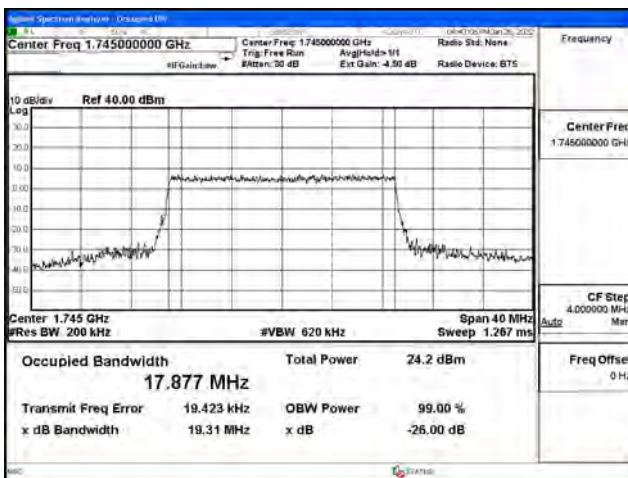
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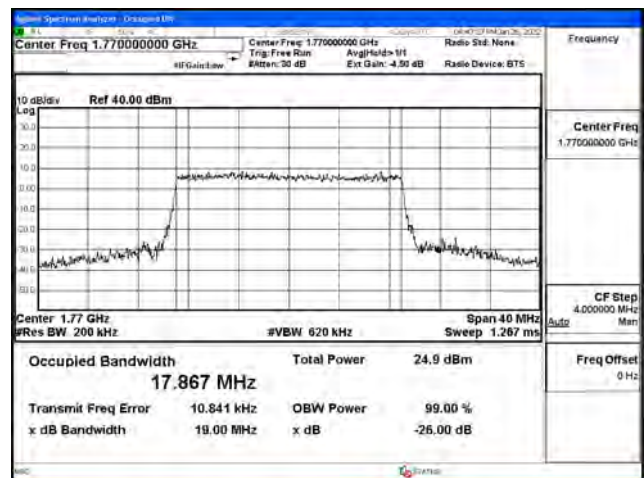
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256QAM_CH132322_20M_100RB0



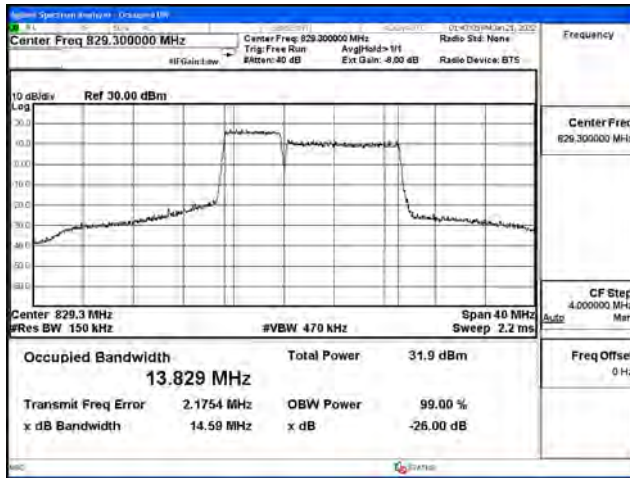
256QAM_CH132572_20M_100RB0



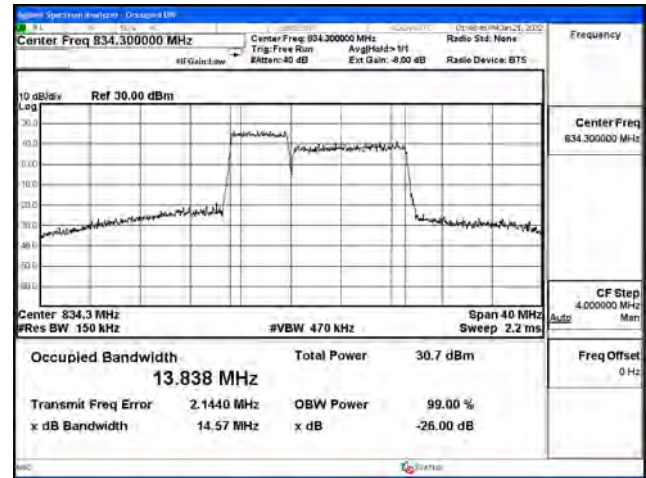
Mode 7: LTE CA Band 5B

Bandwidth (MHz)		Modulation	Channel		Frequency (MHz)		Measure Level (MHz)		Limit (MHz)
PCC	SCC		PCC	SCC	PCC	SCC	26dB BW	99% BW	
5	10	QPSK	20428	20500	826.8	834	14.590	13.829	N/A
			20478	20550	831.8	849	14.570	13.838	N/A
			20528	20600	836.8	844	14.560	13.790	N/A
		16-QAM	20428	20500	826.8	834	14.540	13.794	N/A
			20478	20550	831.8	849	14.550	13.859	N/A
			20528	20600	836.8	844	14.510	13.761	N/A
		64-QAM	20428	20500	826.8	834	14.520	13.830	N/A
			20478	20550	831.8	849	14.520	13.852	N/A
			20528	20600	836.8	844	14.480	13.751	N/A
		256-QAM	20428	20500	826.8	834	14.450	13.838	N/A
			20478	20550	831.8	849	14.500	13.858	N/A
			20528	20600	836.8	844	14.500	13.727	N/A
10	5	QPSK	20450	20522	829	836.2	14.740	13.847	N/A
			20500	20572	834	841.2	14.650	13.844	N/A
			20550	20622	839	846.2	14.620	13.826	N/A
		16-QAM	20450	20522	829	836.2	14.730	13.847	N/A
			20500	20572	834	841.2	14.740	13.897	N/A
			20550	20622	839	846.2	14.640	13.800	N/A
		64-QAM	20450	20522	829	836.2	14.710	13.848	N/A
			20500	20572	834	841.2	14.690	13.865	N/A
			20550	20622	839	846.2	14.660	13.808	N/A
		256-QAM	20450	20522	829	836.2	14.630	13.873	N/A
			20500	20572	834	841.2	14.650	13.889	N/A
			20550	20622	839	846.2	14.500	13.803	N/A
10	10	QPSK	20450	20549	829	838.9	19.810	18.743	N/A
			20476	20575	831.6	841.5	19.720	18.690	N/A
			20501	20600	834	844	19.740	18.653	N/A
		16-QAM	20450	20549	829	838.9	19.740	18.704	N/A
			20476	20575	831.6	841.5	19.760	18.700	N/A
			20501	20600	834	844	19.850	18.707	N/A
		64-QAM	20450	20549	829	838.9	19.680	18.753	N/A
			20476	20575	831.6	841.5	19.600	18.685	N/A
			20501	20600	834	844	19.720	18.745	N/A
		256-QAM	20450	20549	829	838.9	19.570	18.635	N/A
			20476	20575	831.6	841.5	19.610	18.627	N/A
			20501	20600	834	844	19.470	18.675	N/A

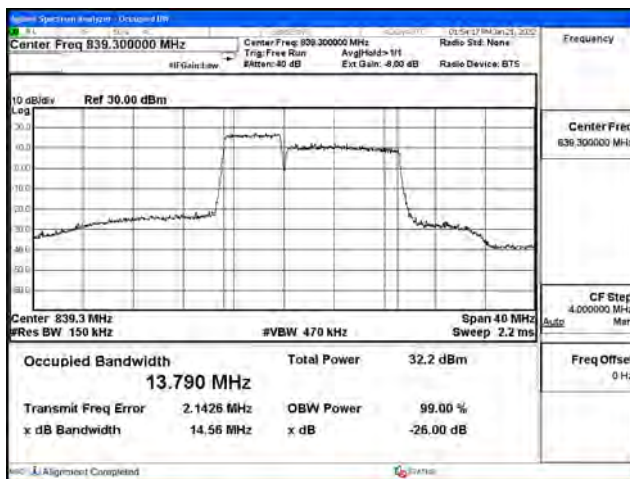
CA_5B_CH20428+CH20500_5M+10M_QPSK_25RB0+50RB0



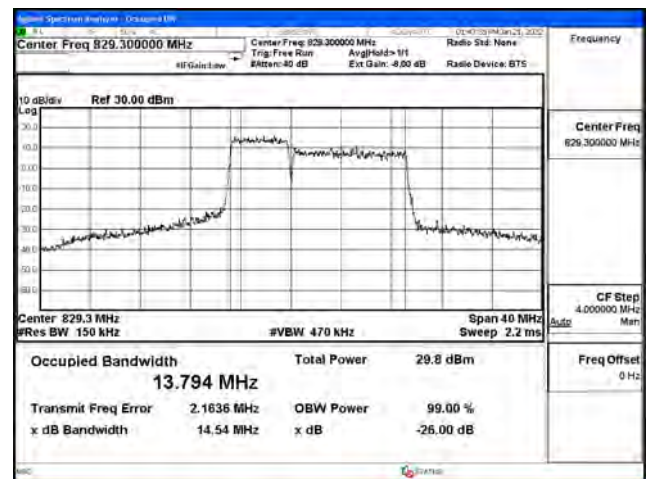
CA_5B_CH20478+CH20550_5M+10M_QPSK_25RB0+50RB0



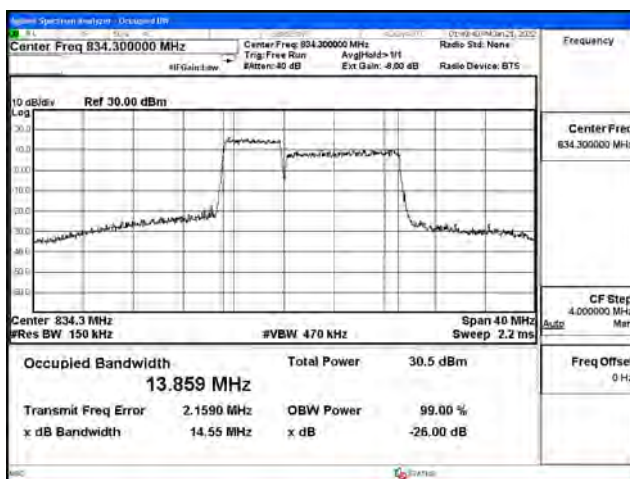
CA_5B_CH20528+CH20600_5M+10M_QPSK_25RB0+50RB0



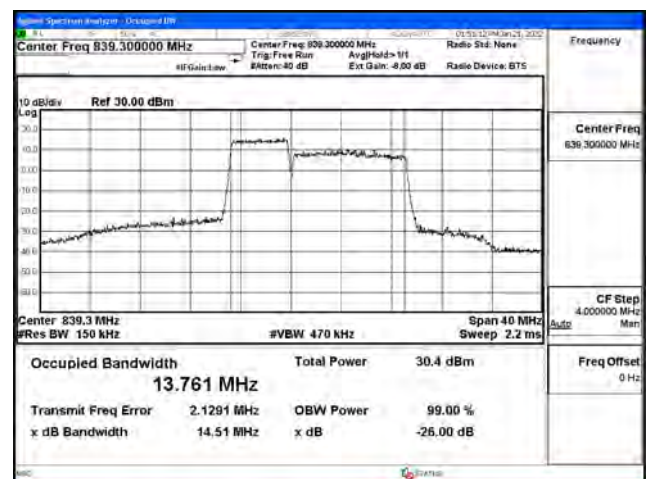
CA_5B_CH20428+CH20500_5M+10M_16-QAM_25RB0+50RB0



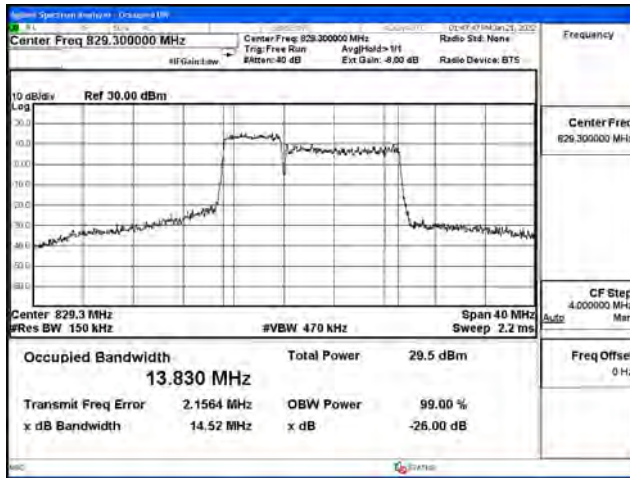
CA_5B_CH20478+CH20550_5M+10M_16-QAM_25RB0+50RB0



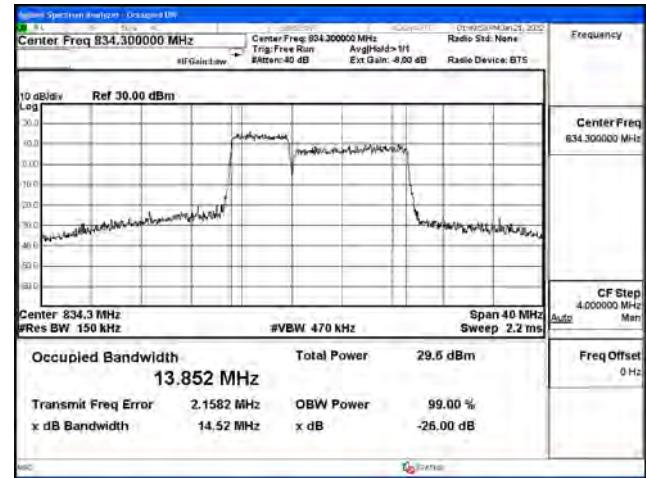
CA_5B_CH20528+CH20600_5M+10M_16-QAM_25RB0+50RB0



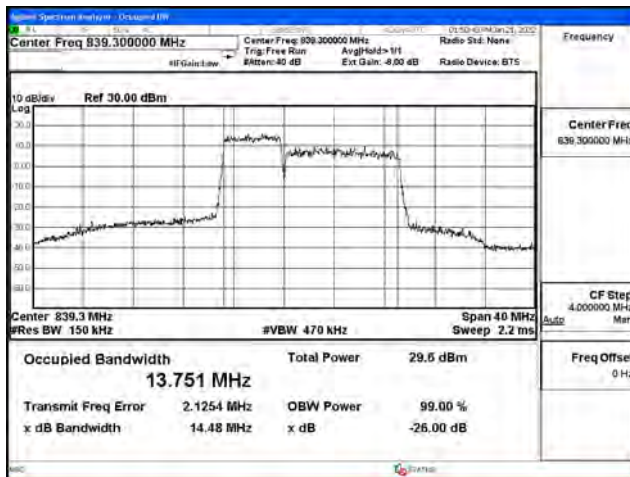
CA_5B_CH20428+CH20500_5M+10M_64-QAM
_25RB0+50RB0



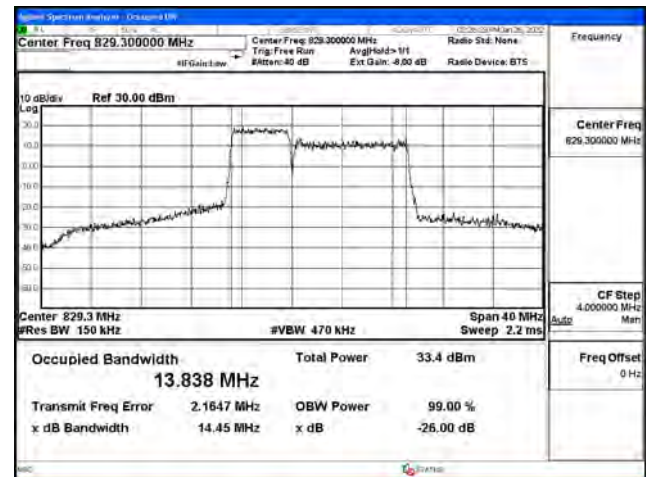
CA_5B_CH20478+CH20550_5M+10M_64-QAM
_25RB0+50RB0



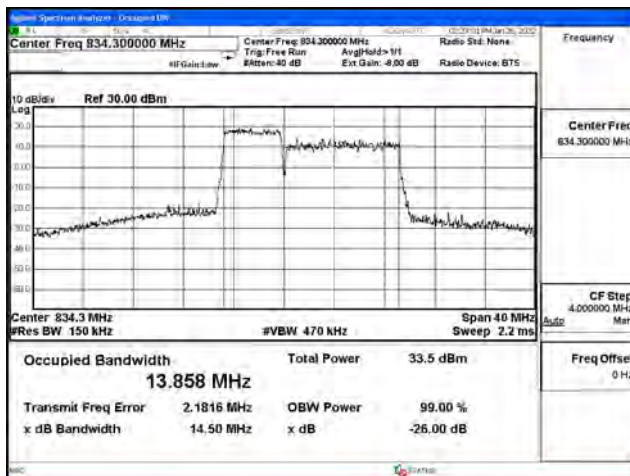
CA_5B_CH20528+CH20600_5M+10M_64-QAM
_25RB0+50RB0



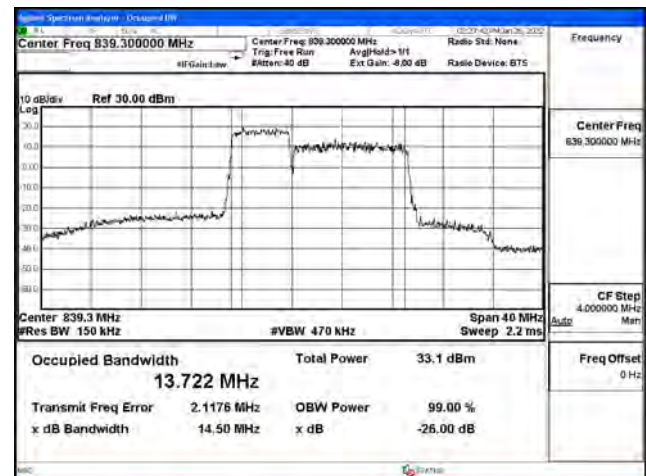
CA_5B_CH20428+CH20500_5M+10M_256-QAM
_25RB0+50RB0



CA_5B_CH20478+CH20550_5M+10M_256-QAM
_25RB0+50RB0

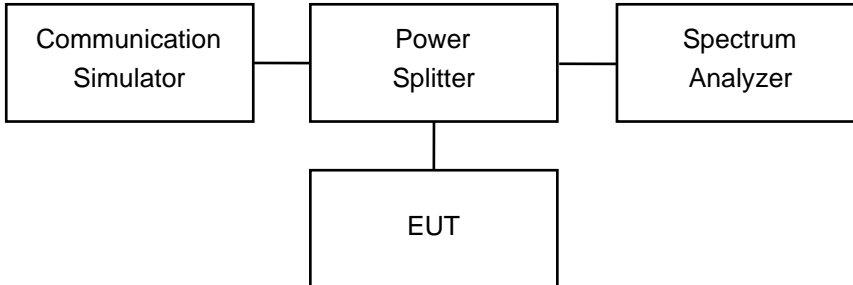


CA_5B_CH20528+CH20600_5M+10M_256-QAM
_25RB0+50RB0



5. Peak to Average Ratio

5.1. Test Setup



5.2. Test Procedure

1. The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. The path loss was compensated to the results for each measurement.
2. Set resolution/measurement bandwidth \geq signal's occupied bandwidth.
3. Set the number of counts to a value that stabilizes the measured CCDF curve.
4. Record the maximum PAPR level associated with a probability of 0.1 %.

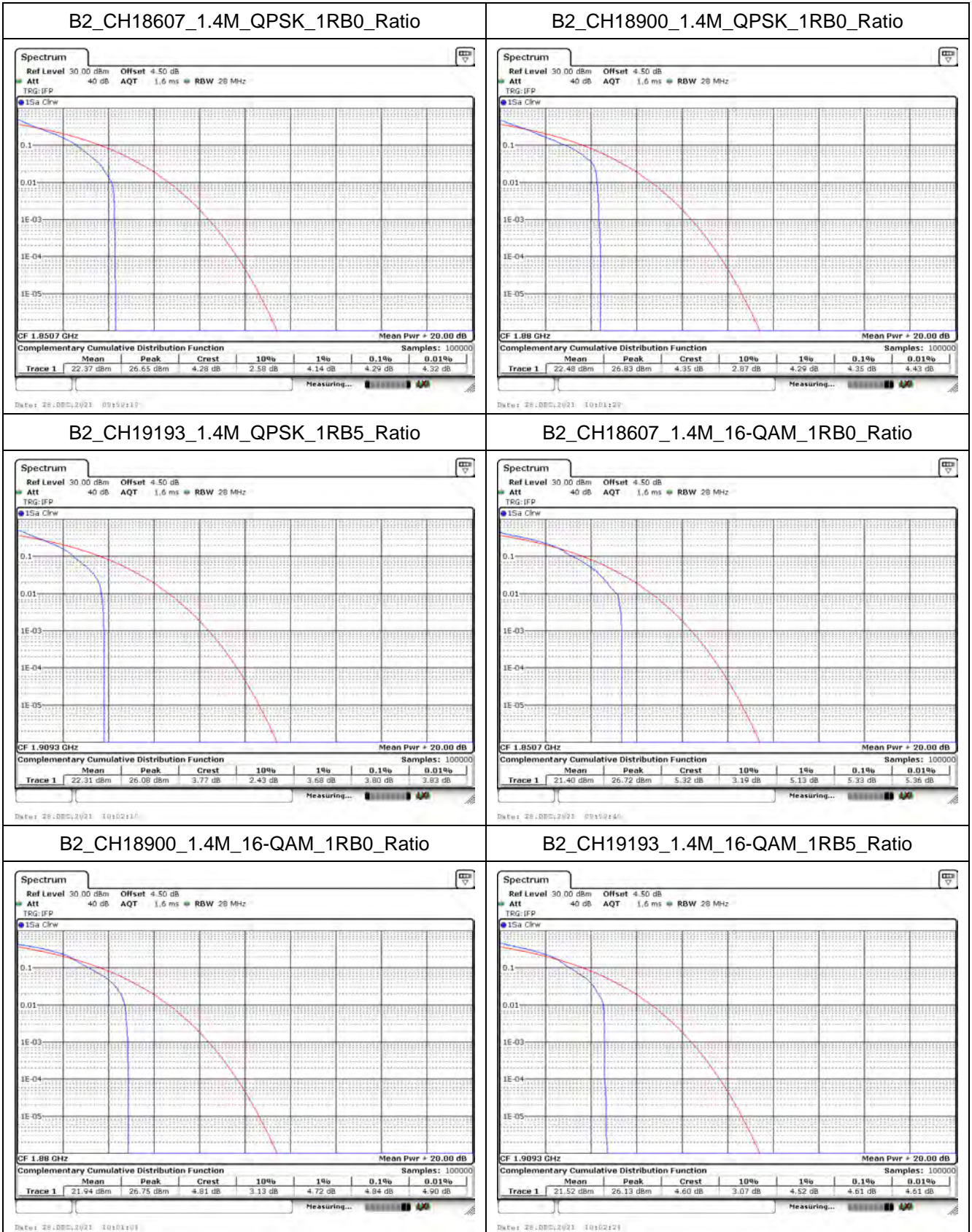
5.3. Test Methodology and Reference Procedures

KDB 971168 D01 Power Meas License Digital Systems v03r01

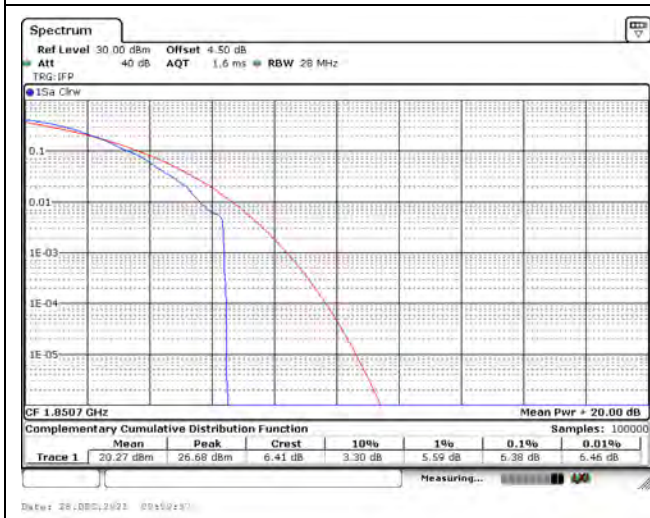
ANSI C63.26-2015

5.4. Test Result of Peak to Average Ratio

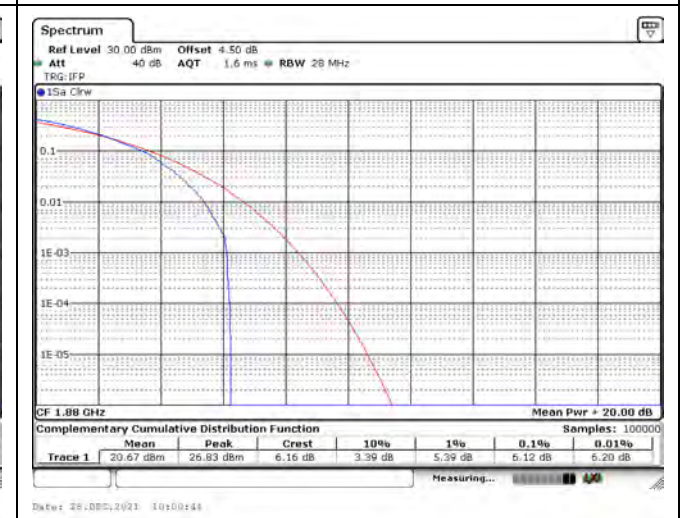
Mode 1: LTE Band 2



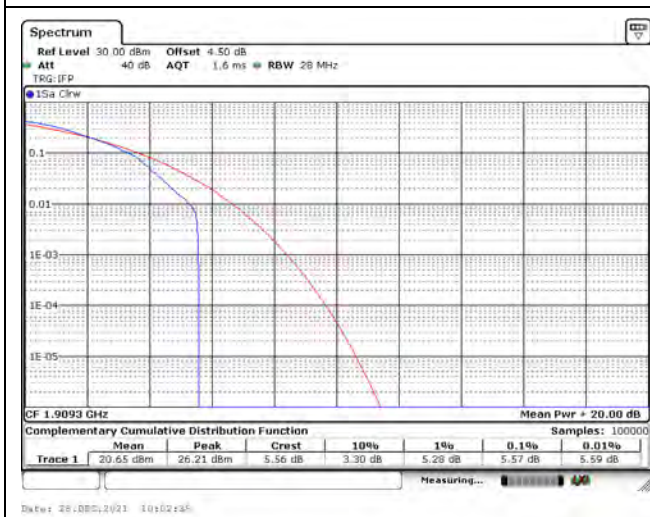
B2_CH18607_1.4M_64-QAM_1RB0_Ratio

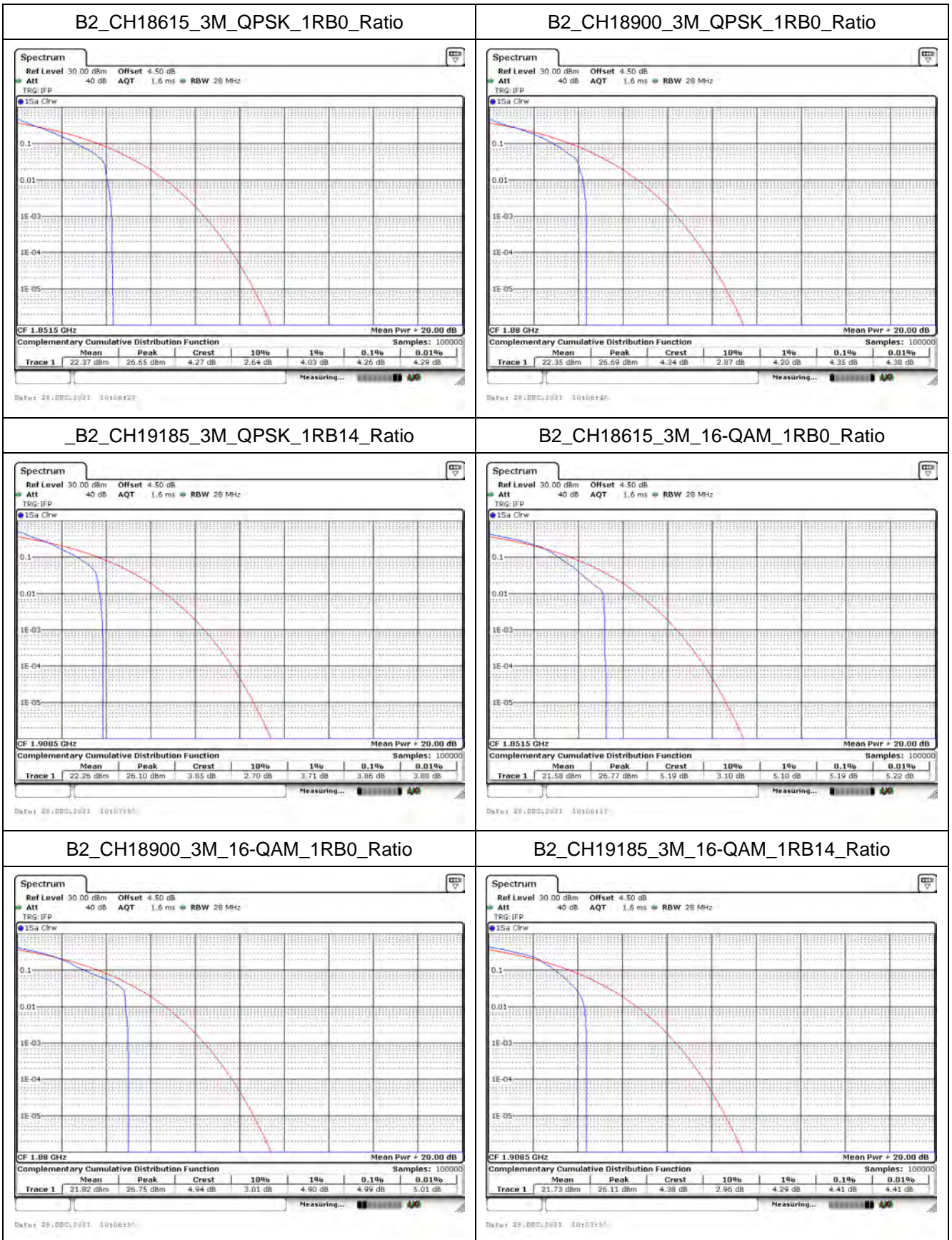


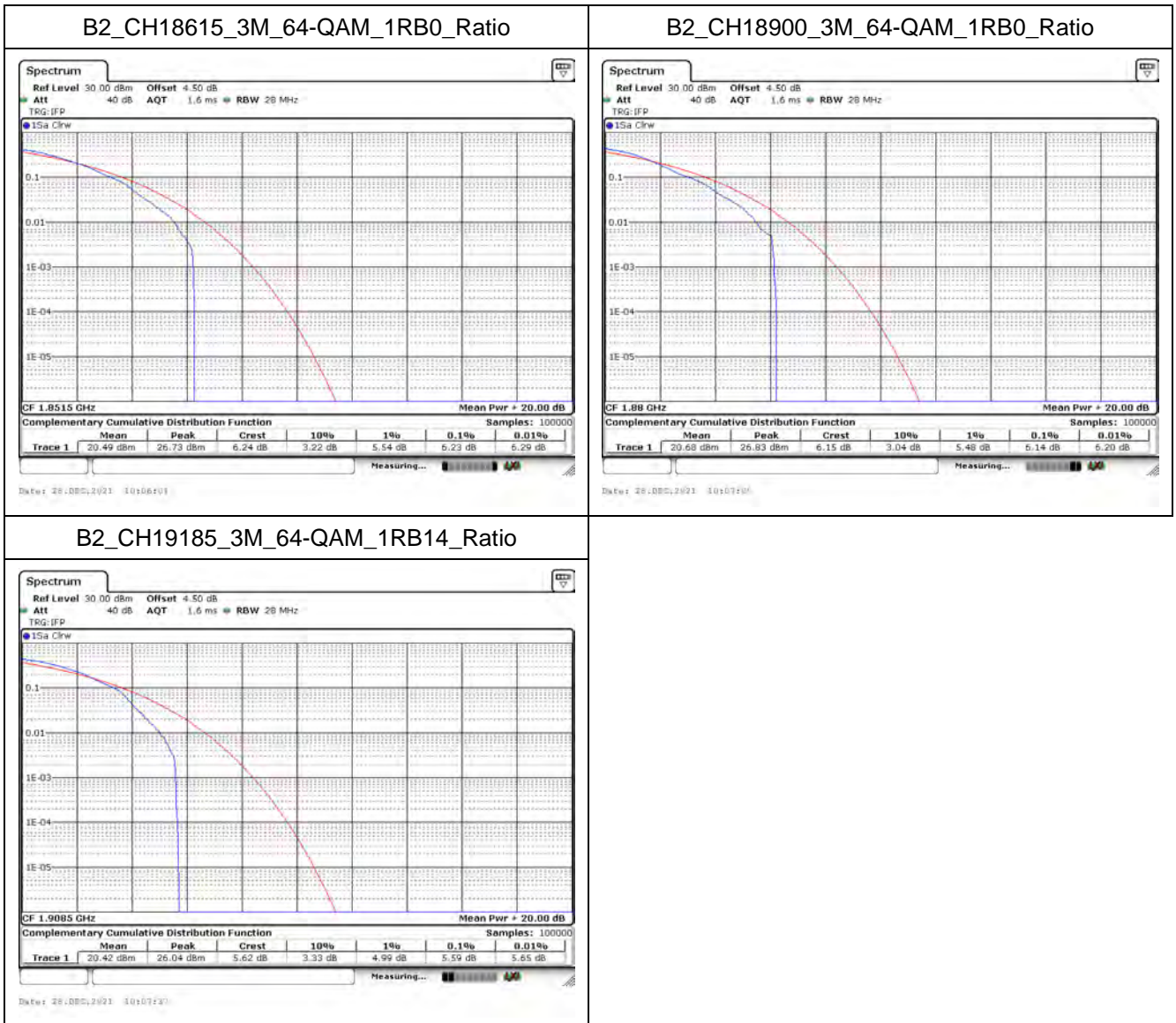
B2_CH18900_1.4M_64-QAM_1RB0_Ratio

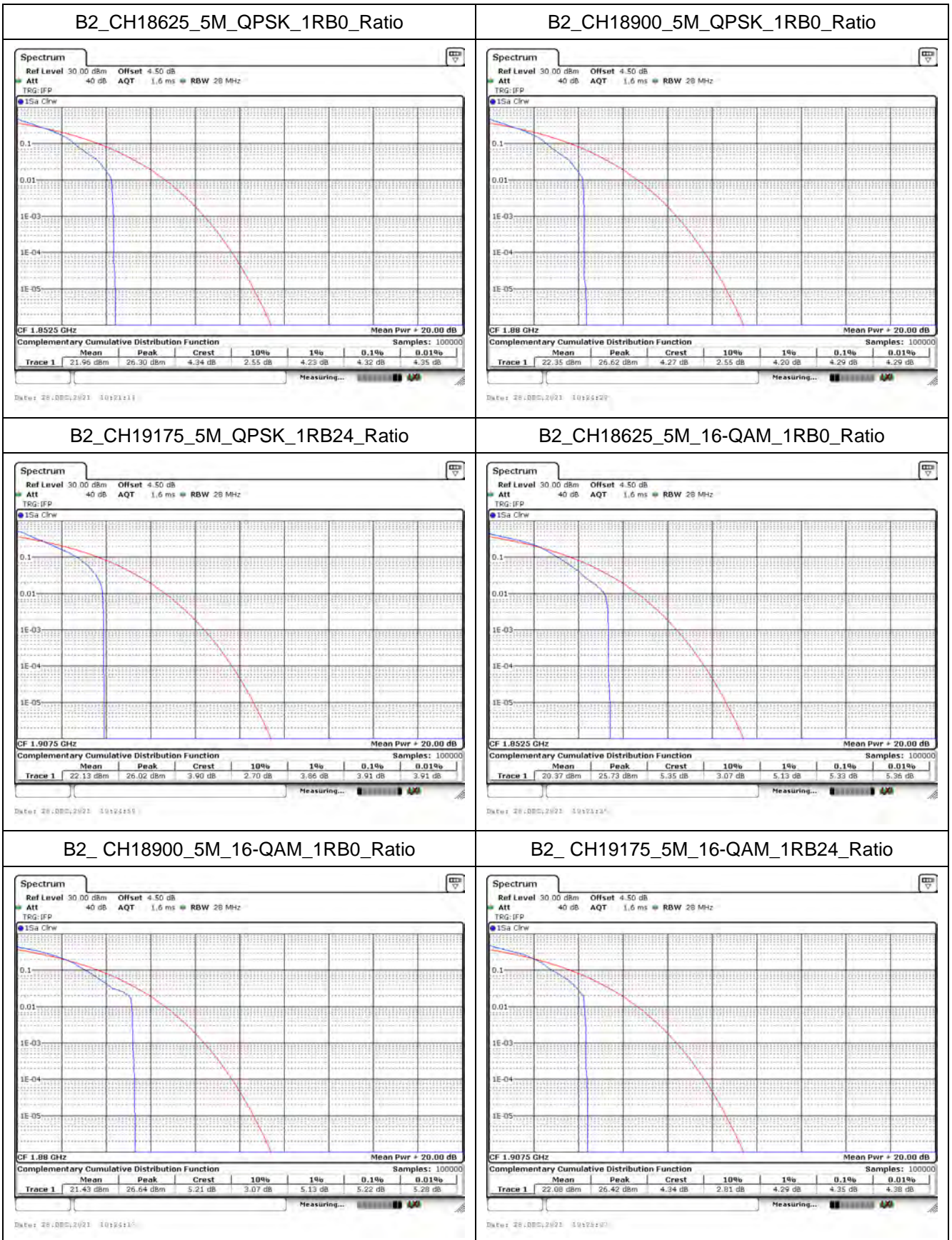


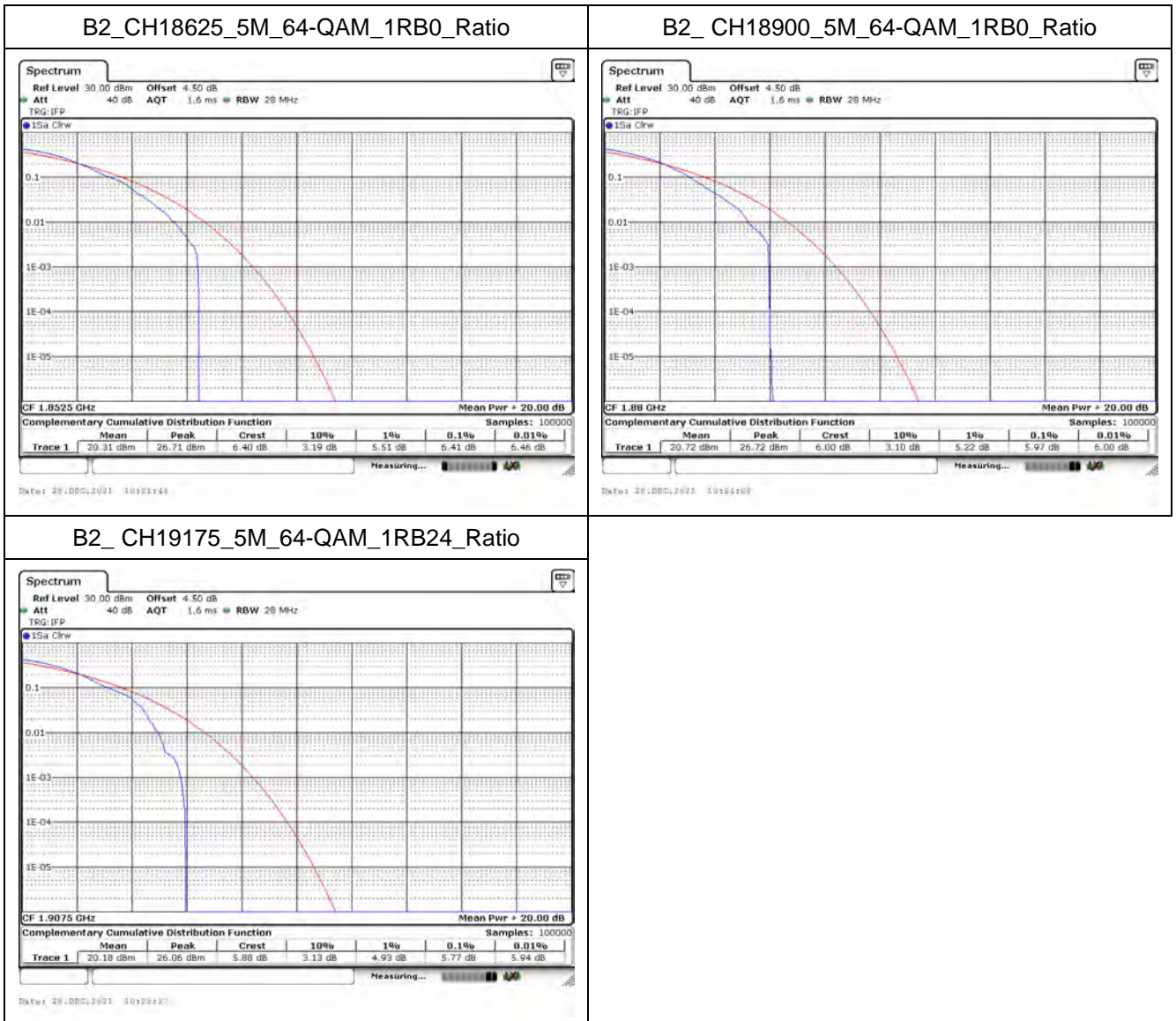
B2_CH19193_1.4M_64-QAM_1RB5_Ratio

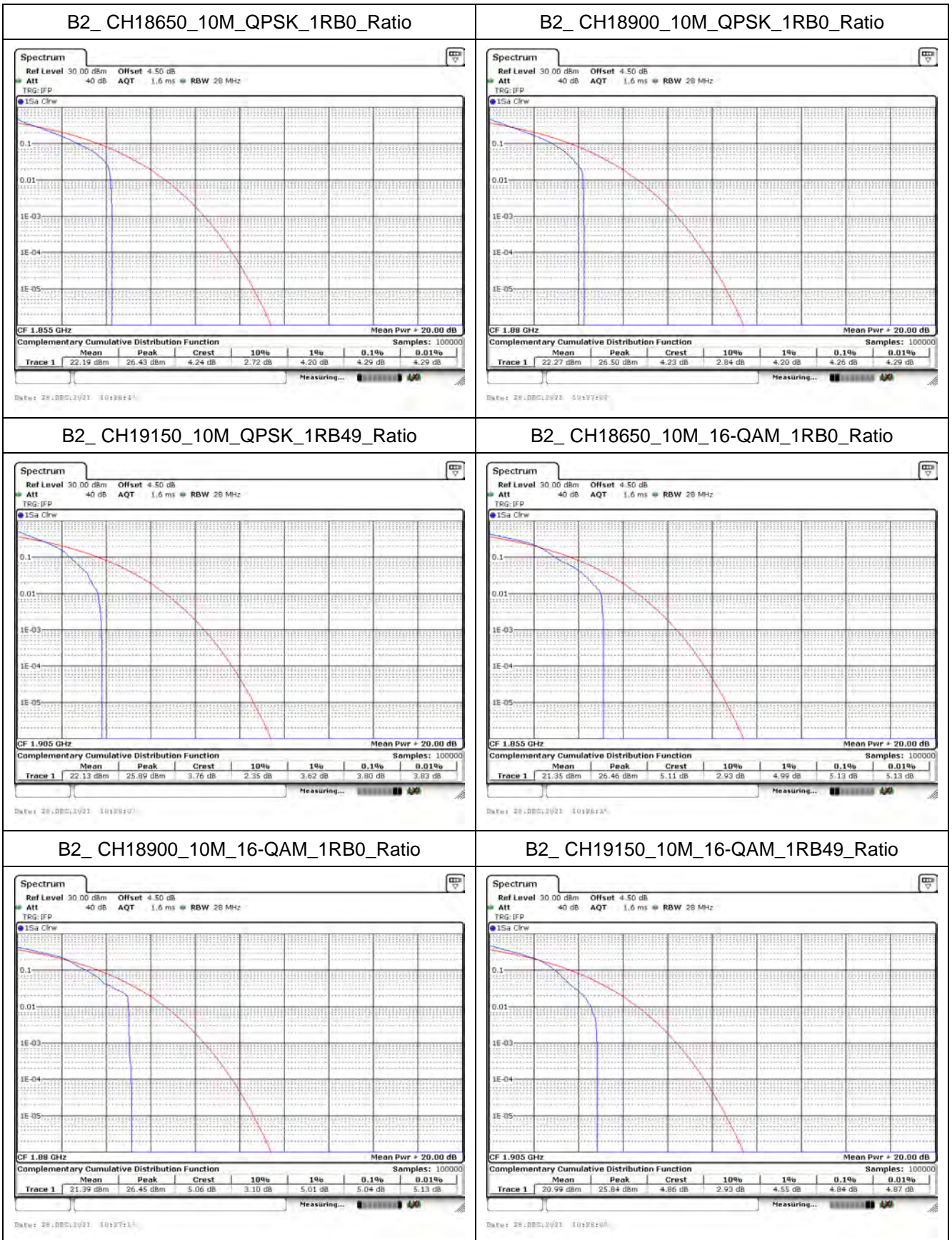




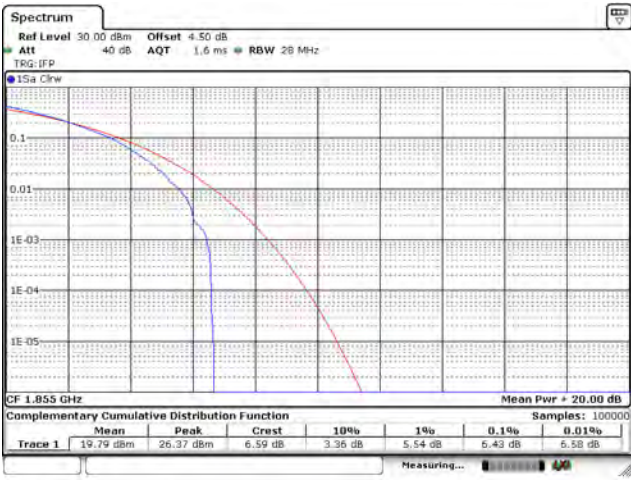




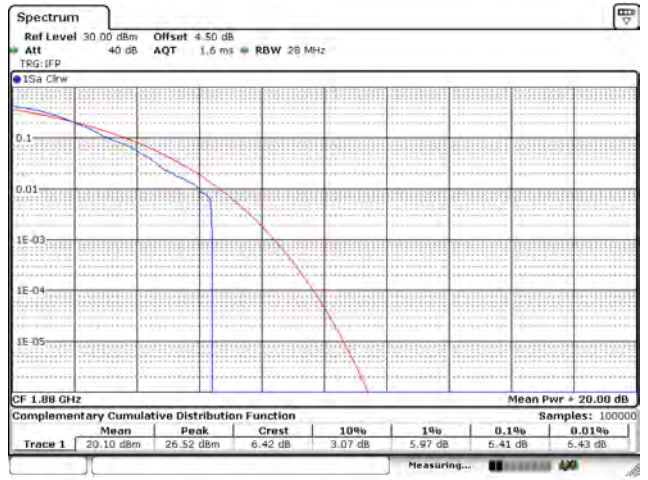




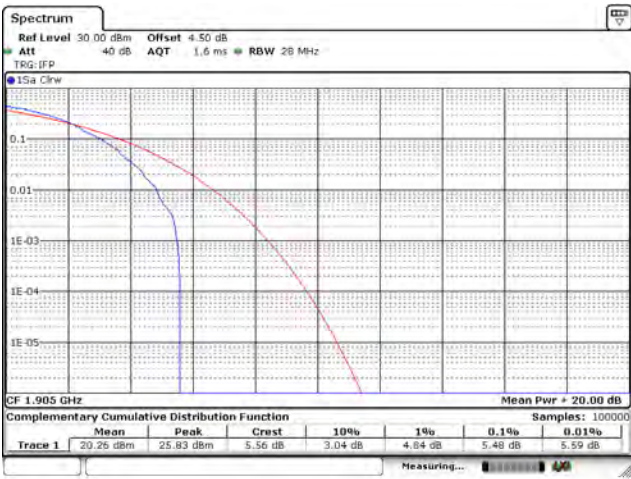
B2_CH18650_10M_64-QAM_1RB0_Ratio

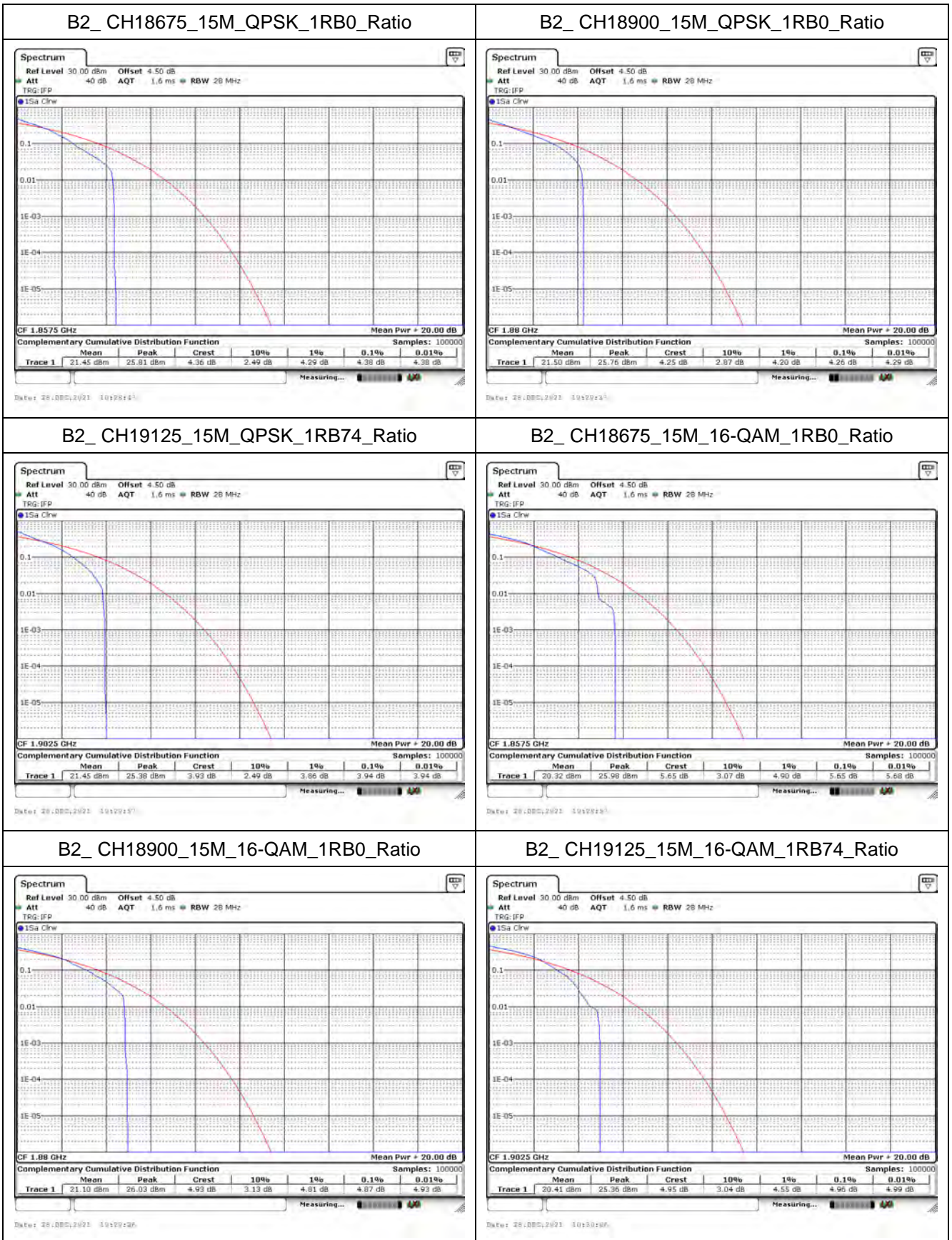


B2_CH18900_10M_64-QAM_1RB0Ratio

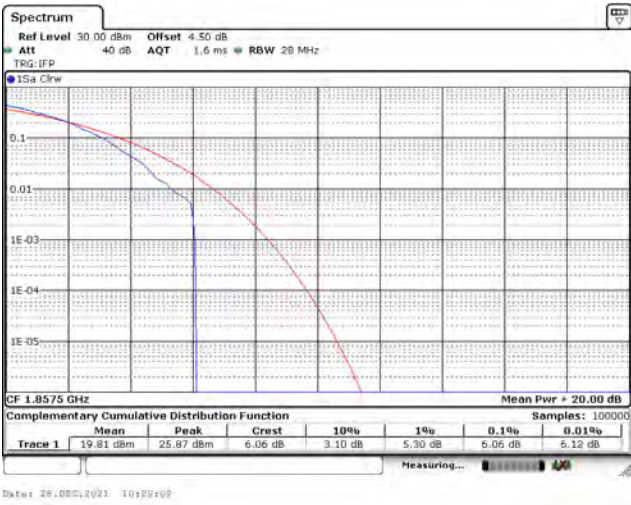


B2_CH19150_10M_64-QAM_1RB49_Ratio

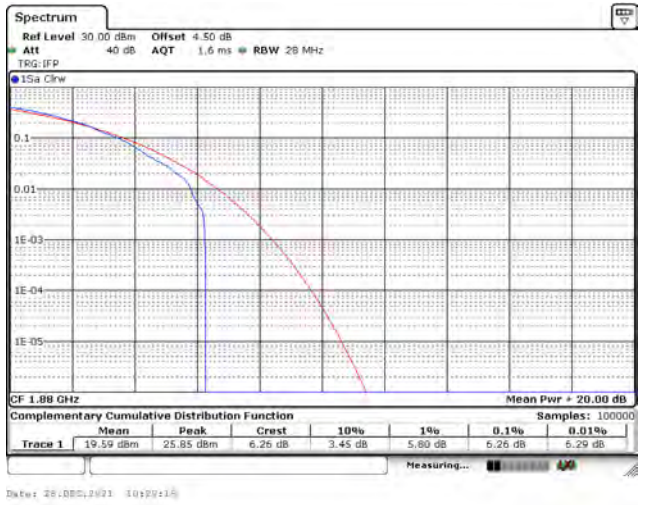




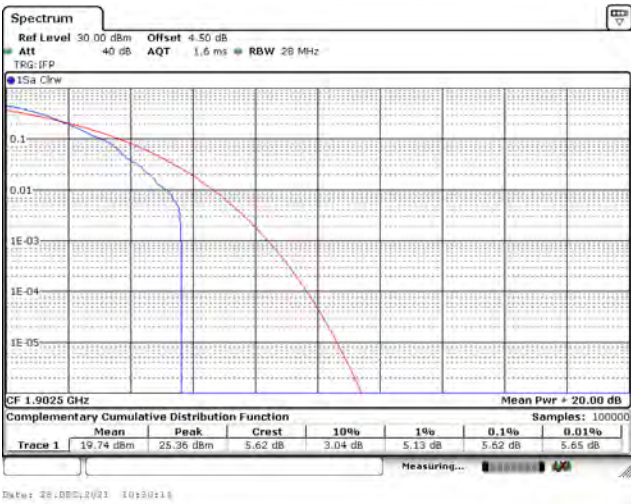
B2_ CH18675_15M_64-QAM_1RB0_Ratio

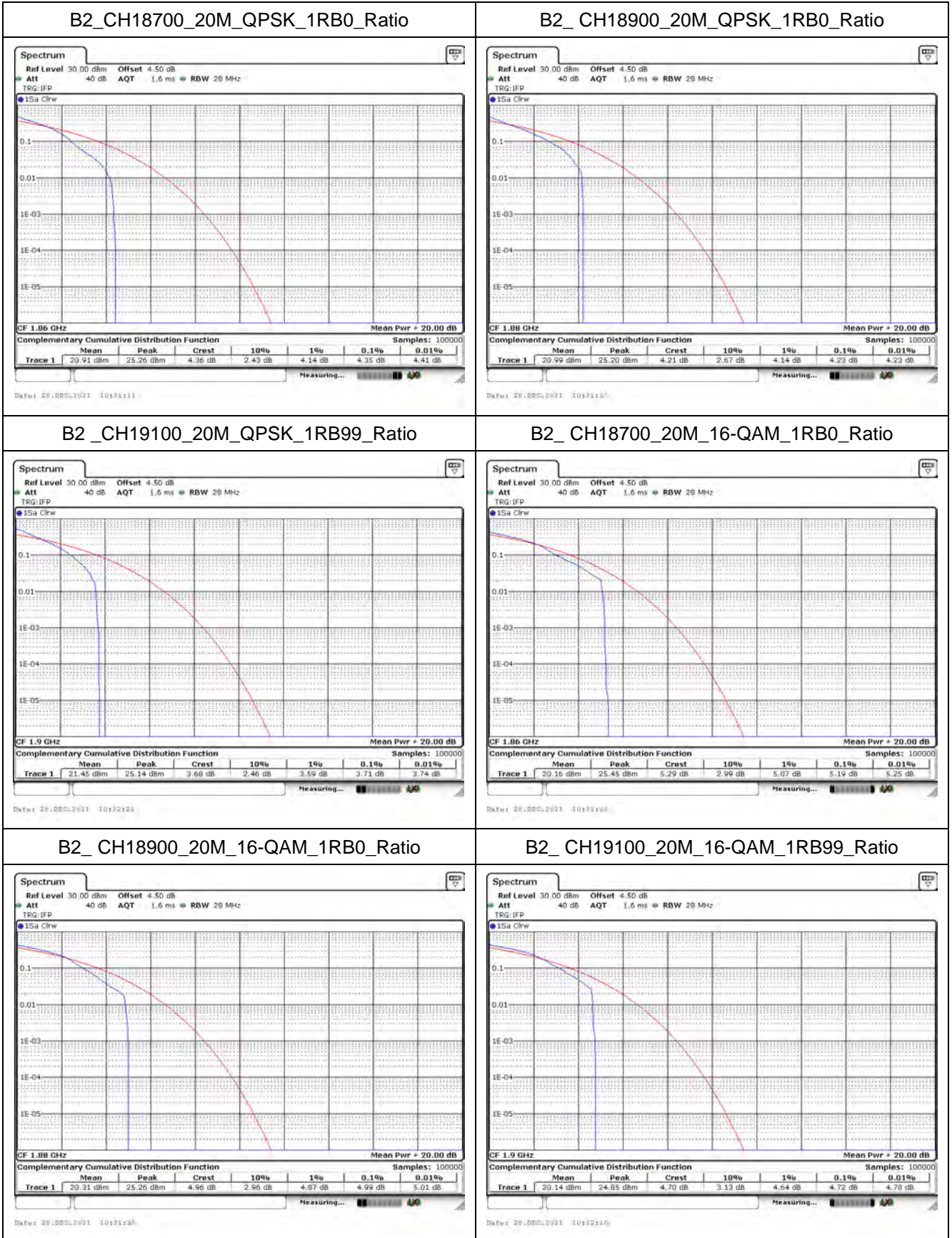


B2_ CH18900_15M_64-QAM_1RB0_Ratio

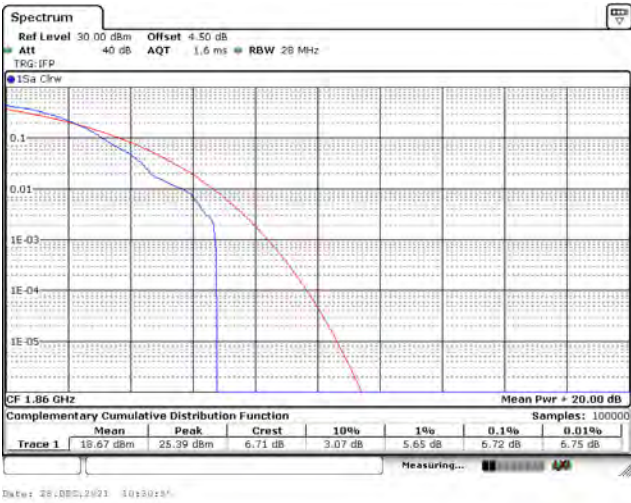


B2_ CH19125_15M_64-QAM_1RB74_Ratio

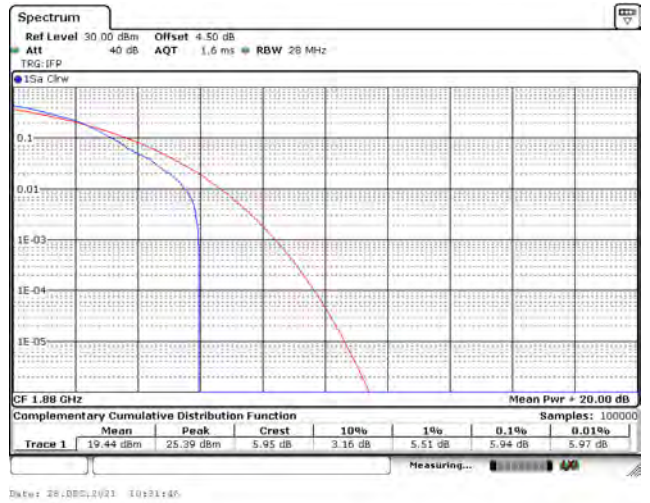




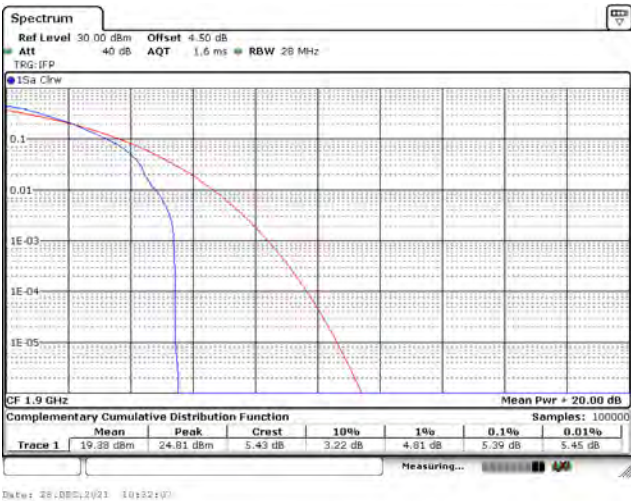
B2_CH18700_20M_64-QAM_1RB0_Ratio



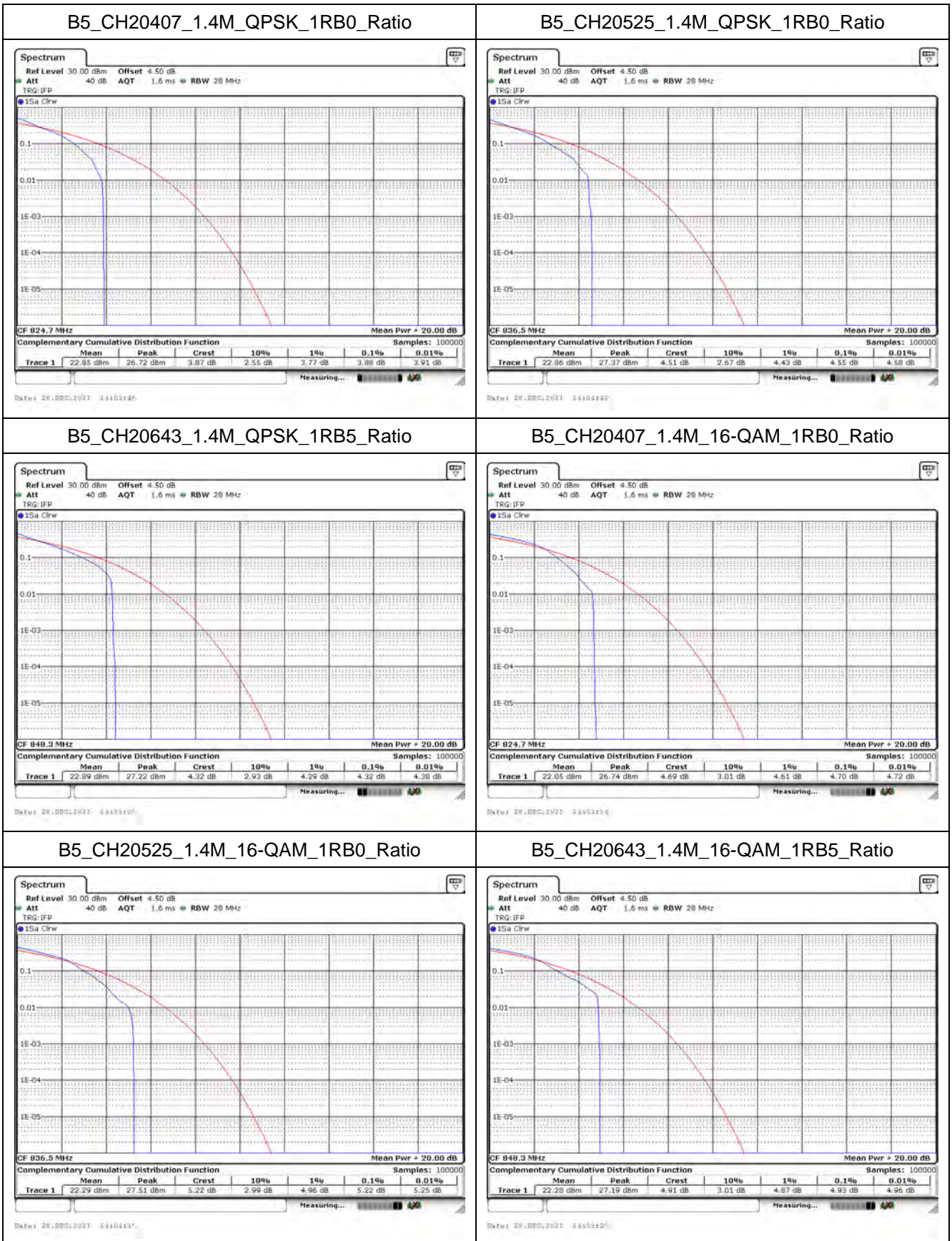
B2_CH18900_20M_64-QAM_1RB0_Ratio



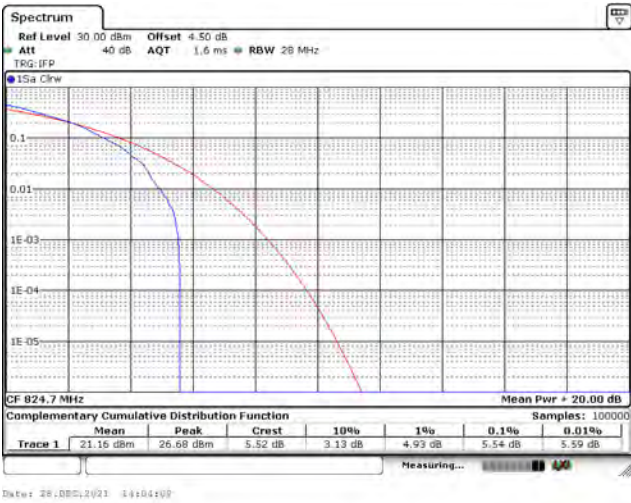
B2_CH19100_20M_64-QAM_1RB99_Ratio



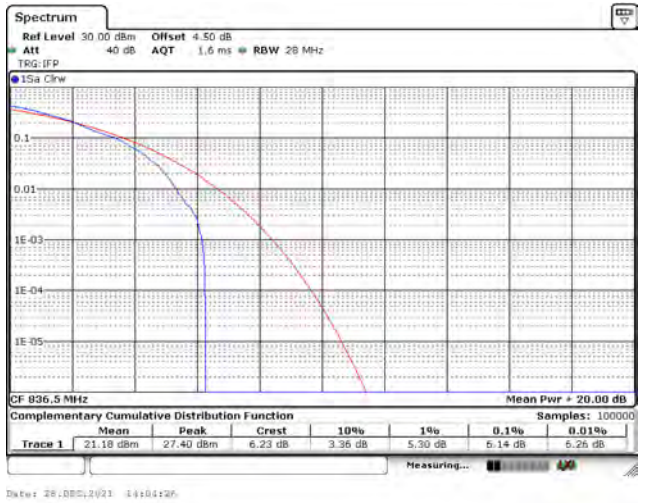
Mode 2: LTE Band 5



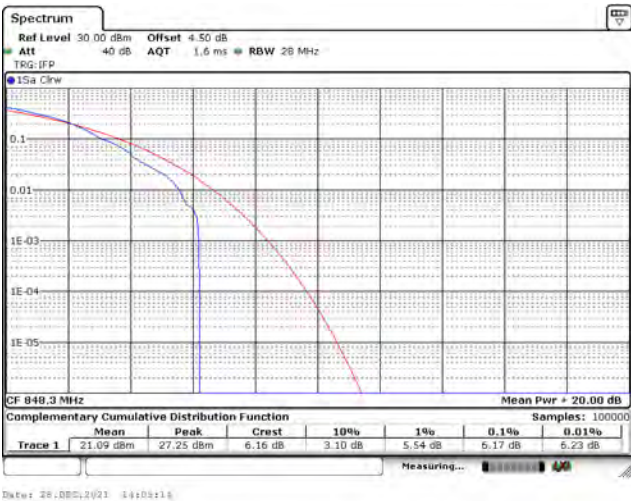
B5_CH20407_1.4M_64-QAM_1RB0_Ratio

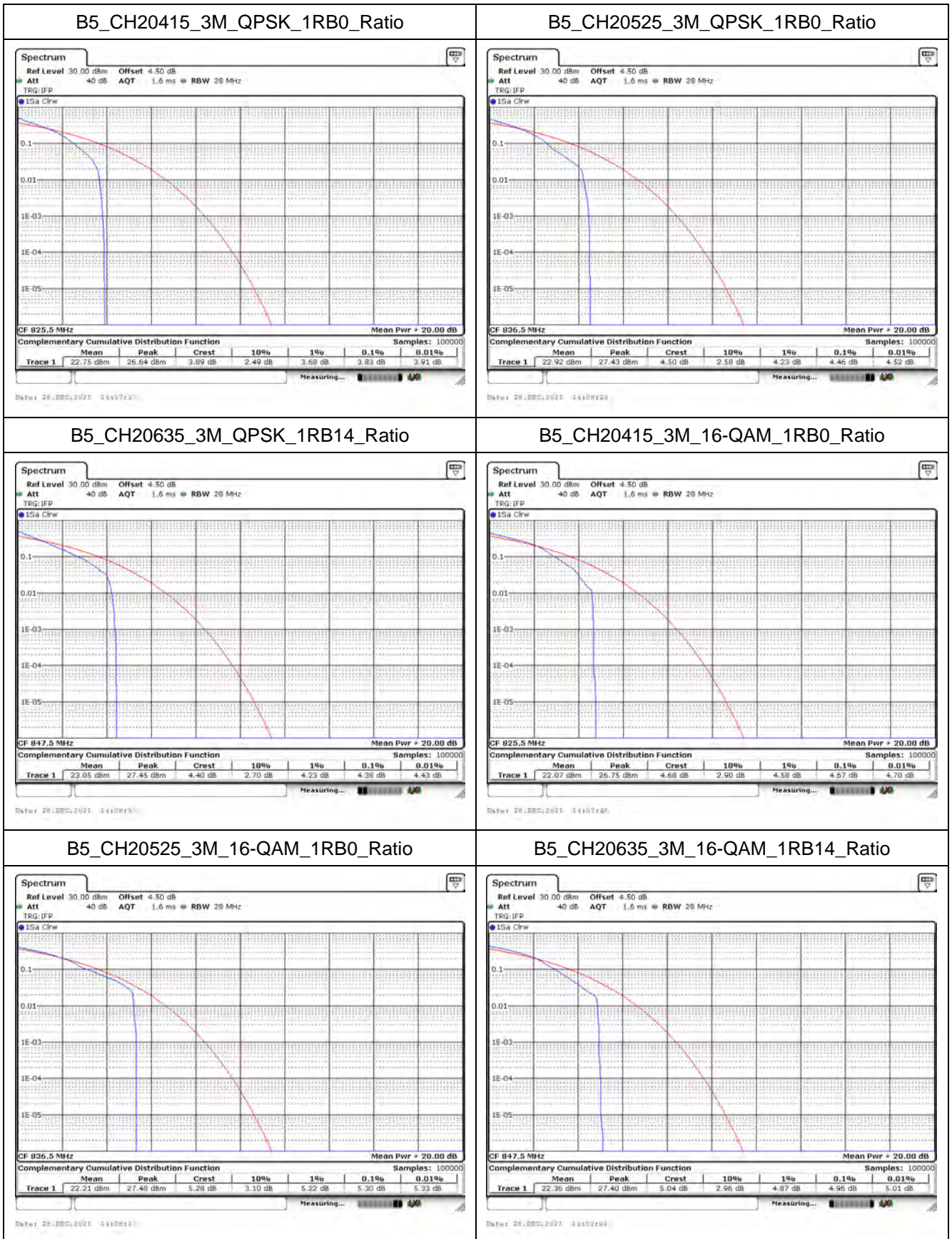


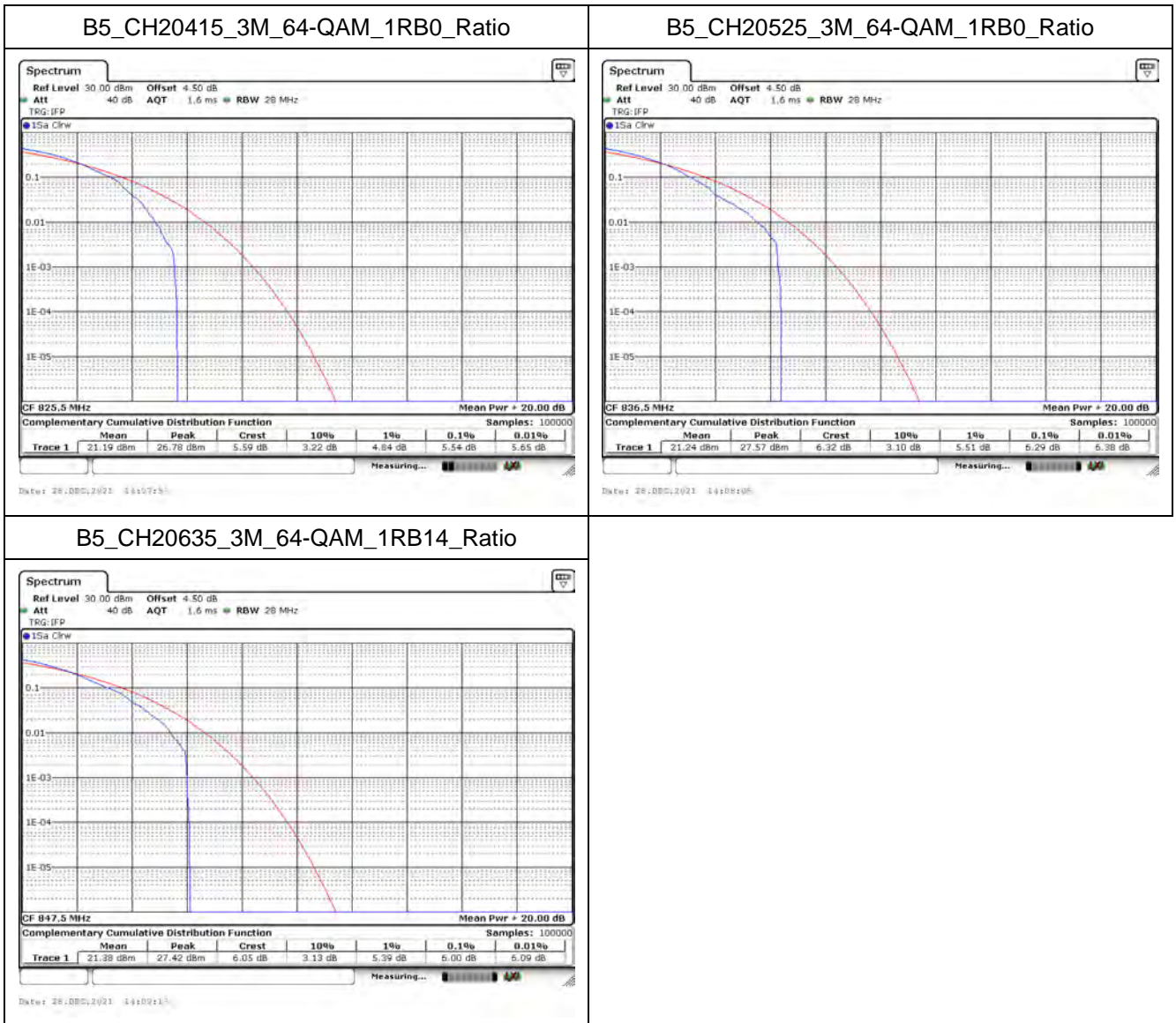
B5_CH20525_1.4M_64-QAM_1RB0_Ratio

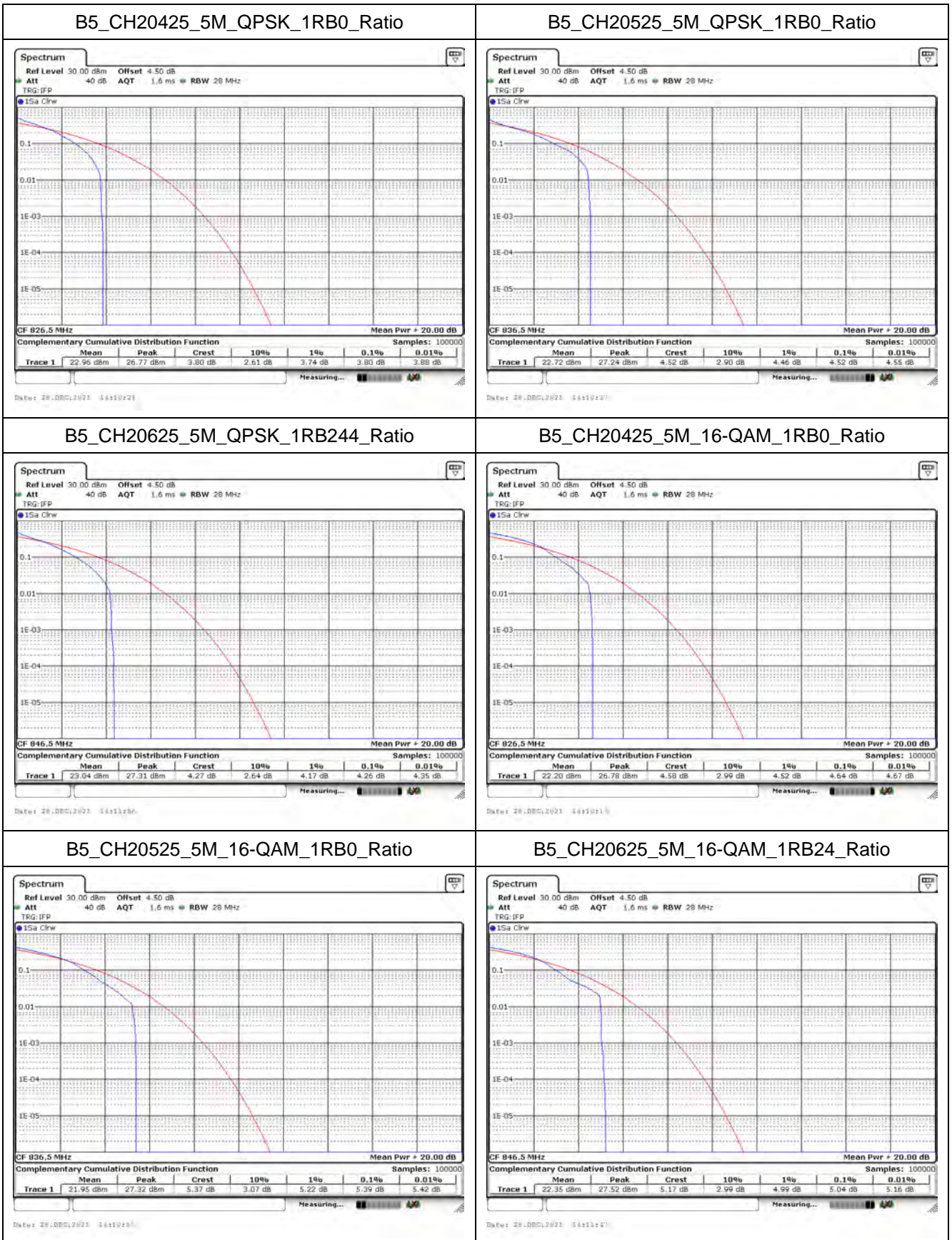


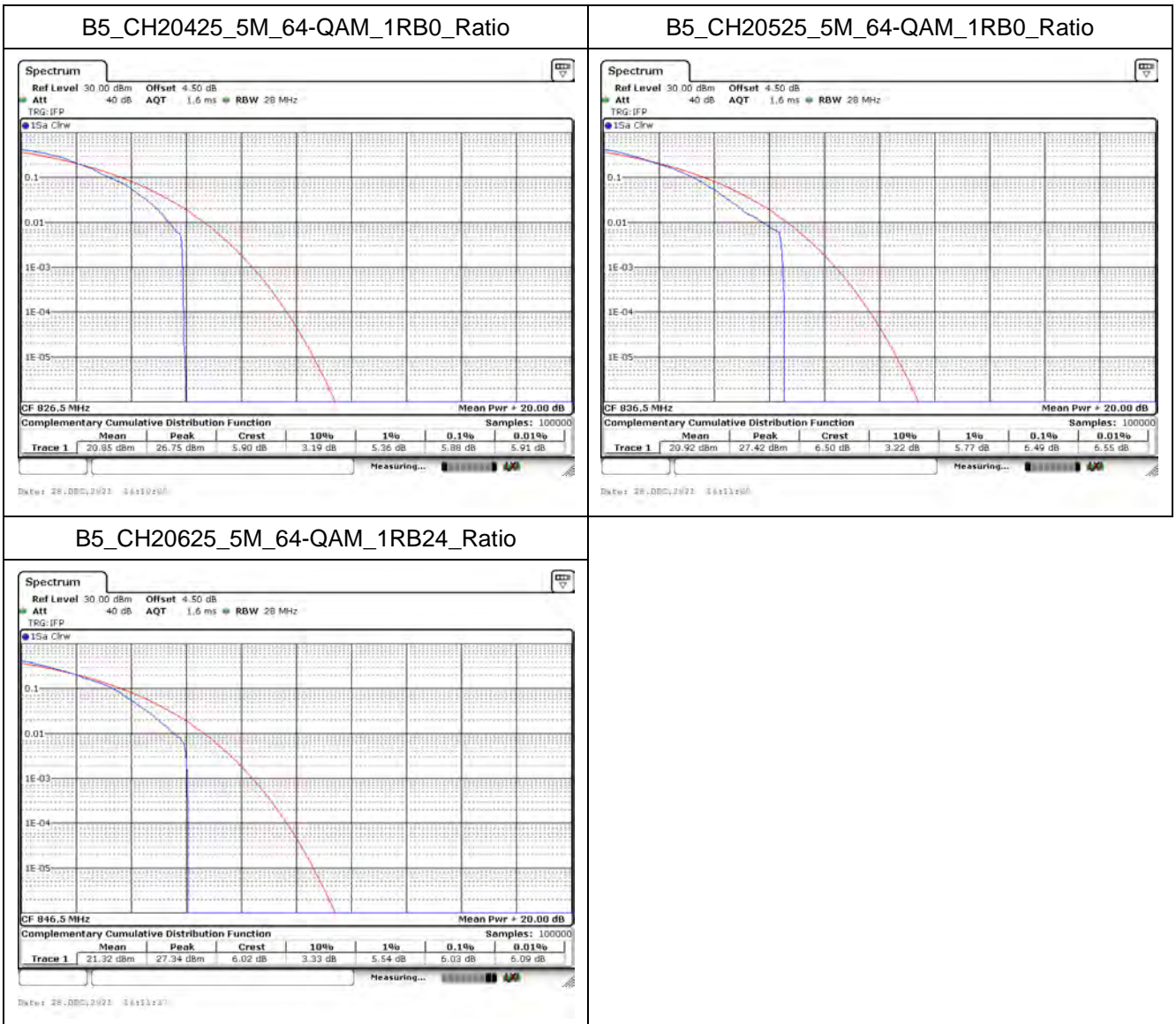
B5_CH20643_1.4M_64-QAM_1RB5_Ratio

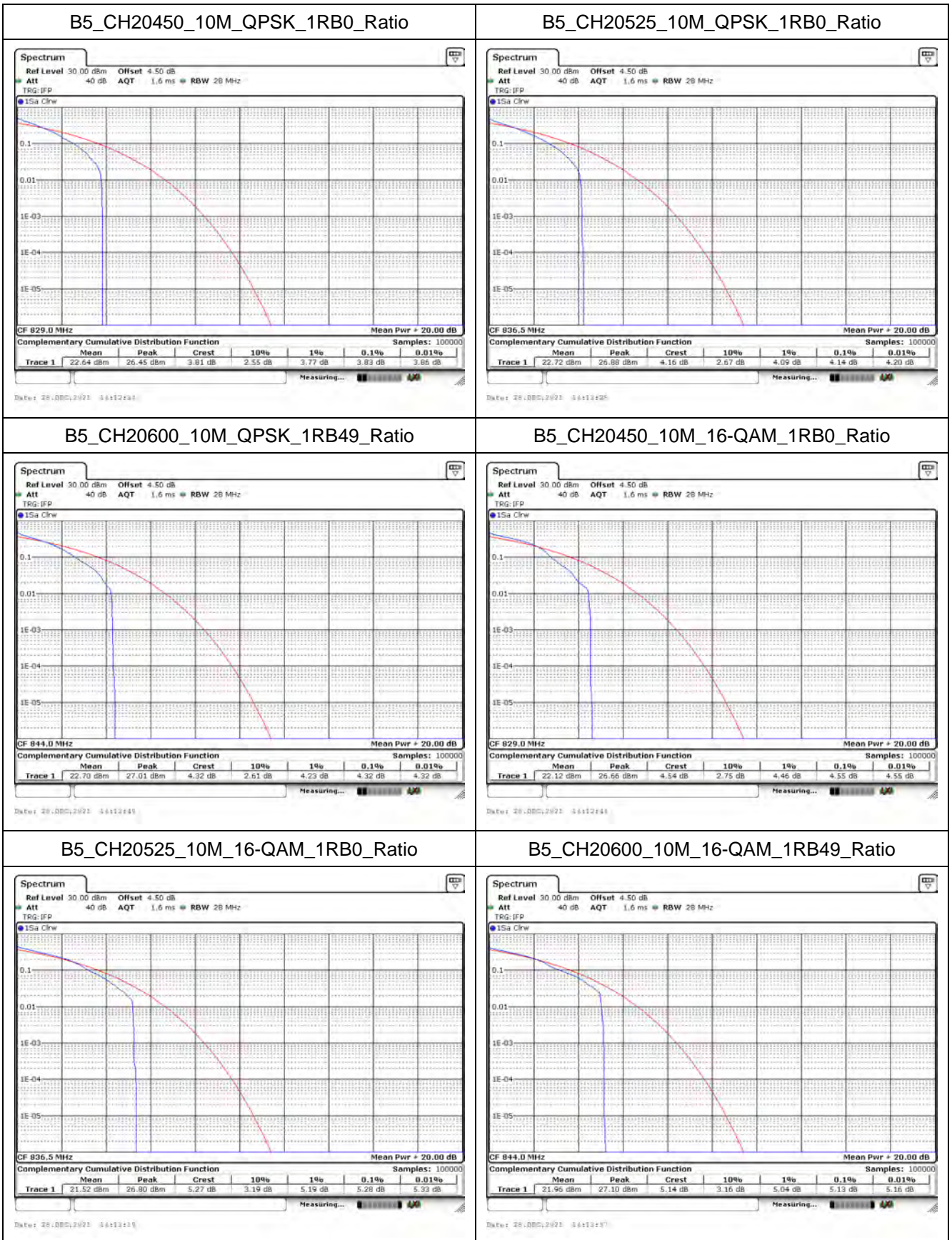




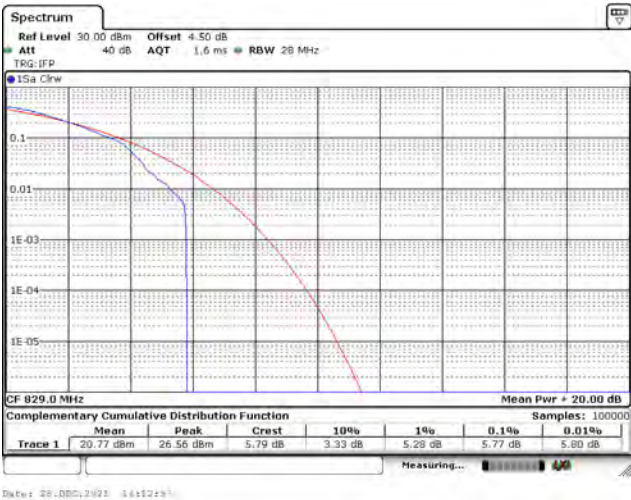




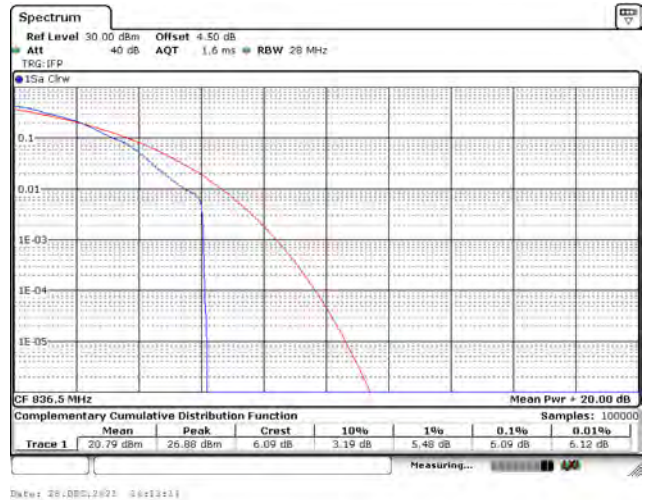




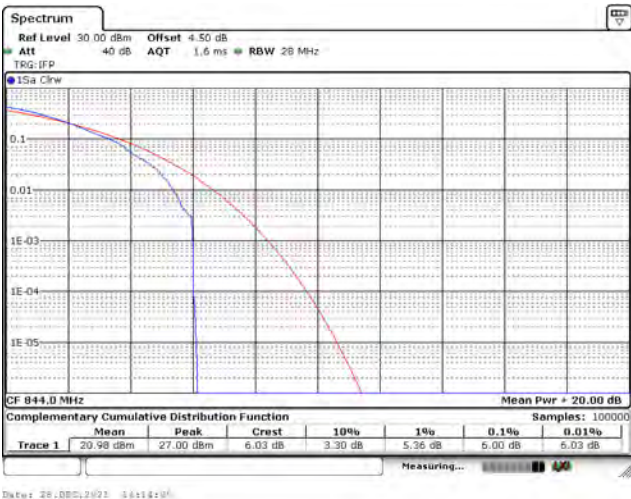
B5_CH20450_10M_64-QAM_1RB0_Ratio



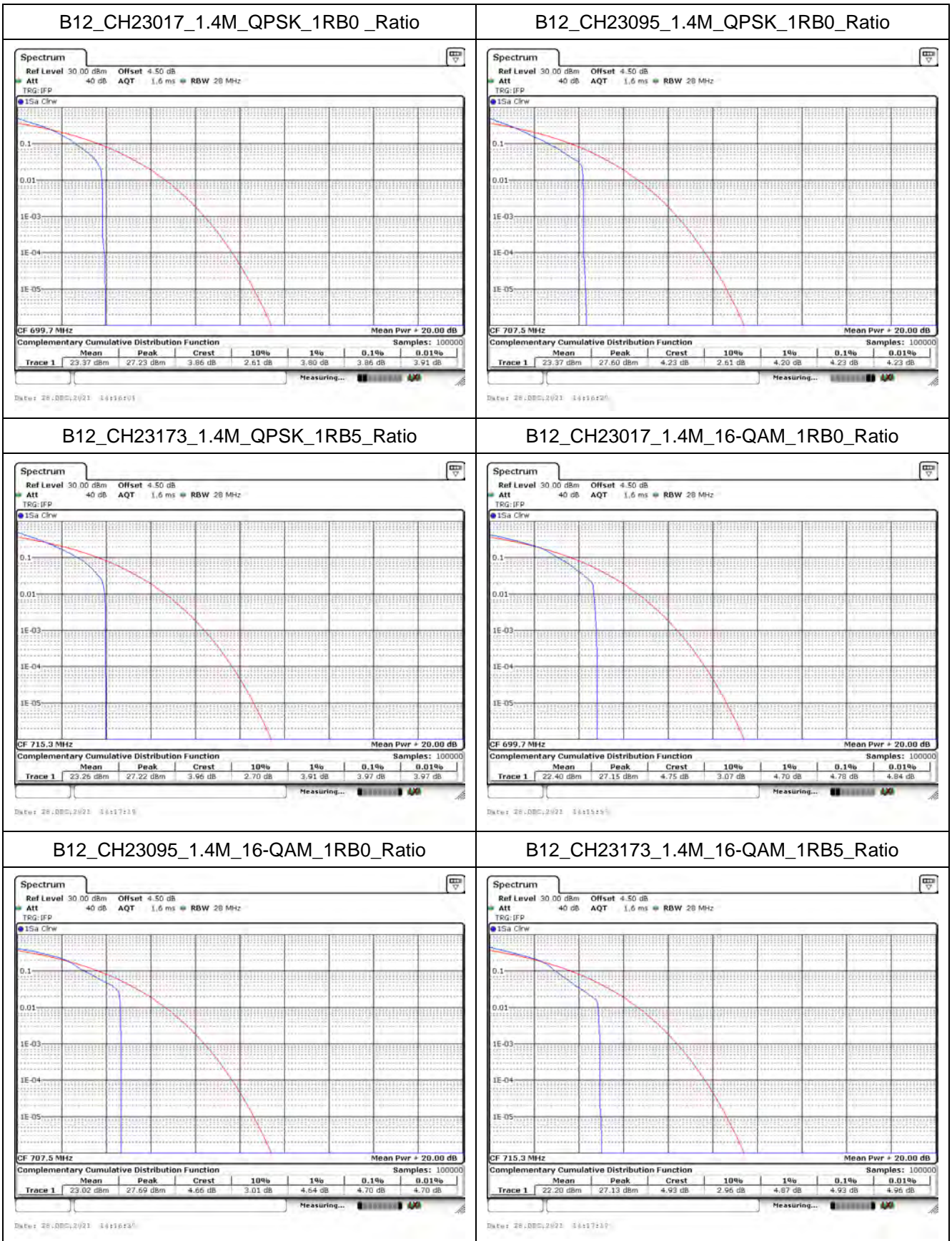
B5_CH20525_10M_64-QAM_1RB0_Ratio



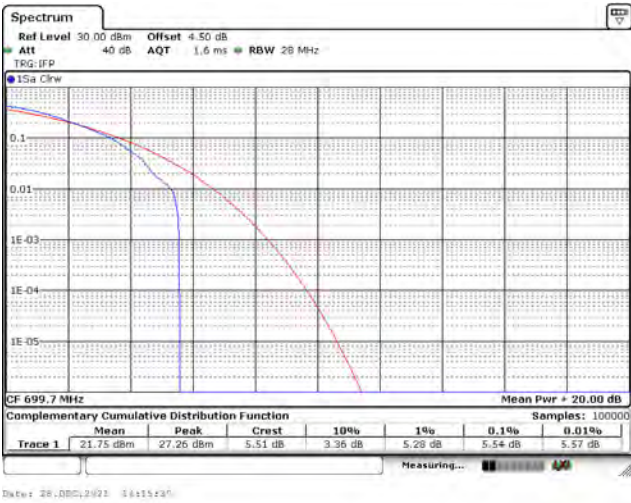
B5_CH20600_10M_64-QAM_1RB49_Ratio



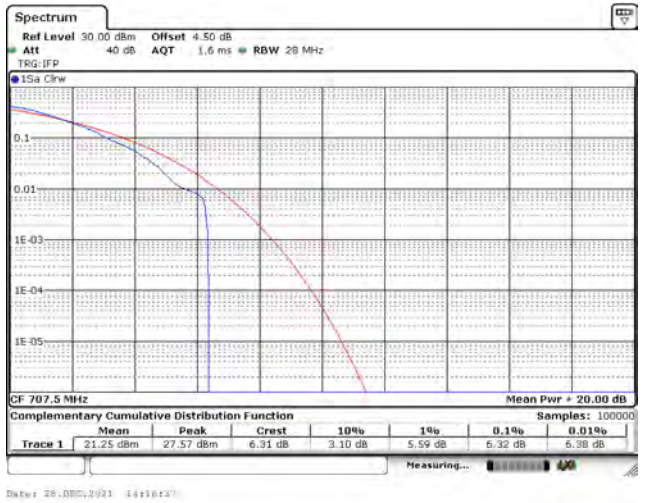
Mode 3: LTE Band 12



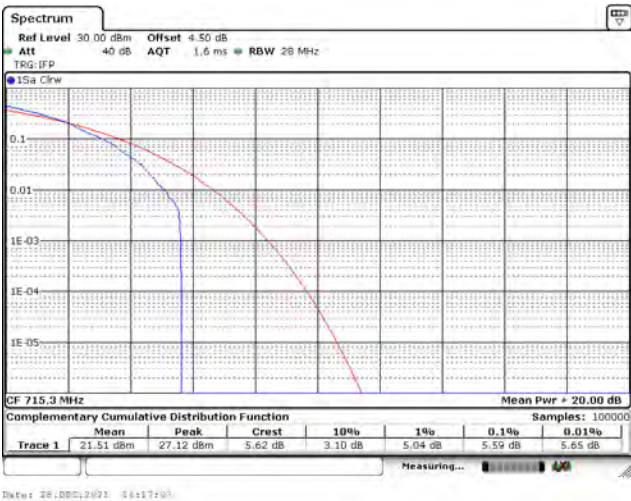
B12_CH23017_1.4M_64-QAM_1RB0_Ratio

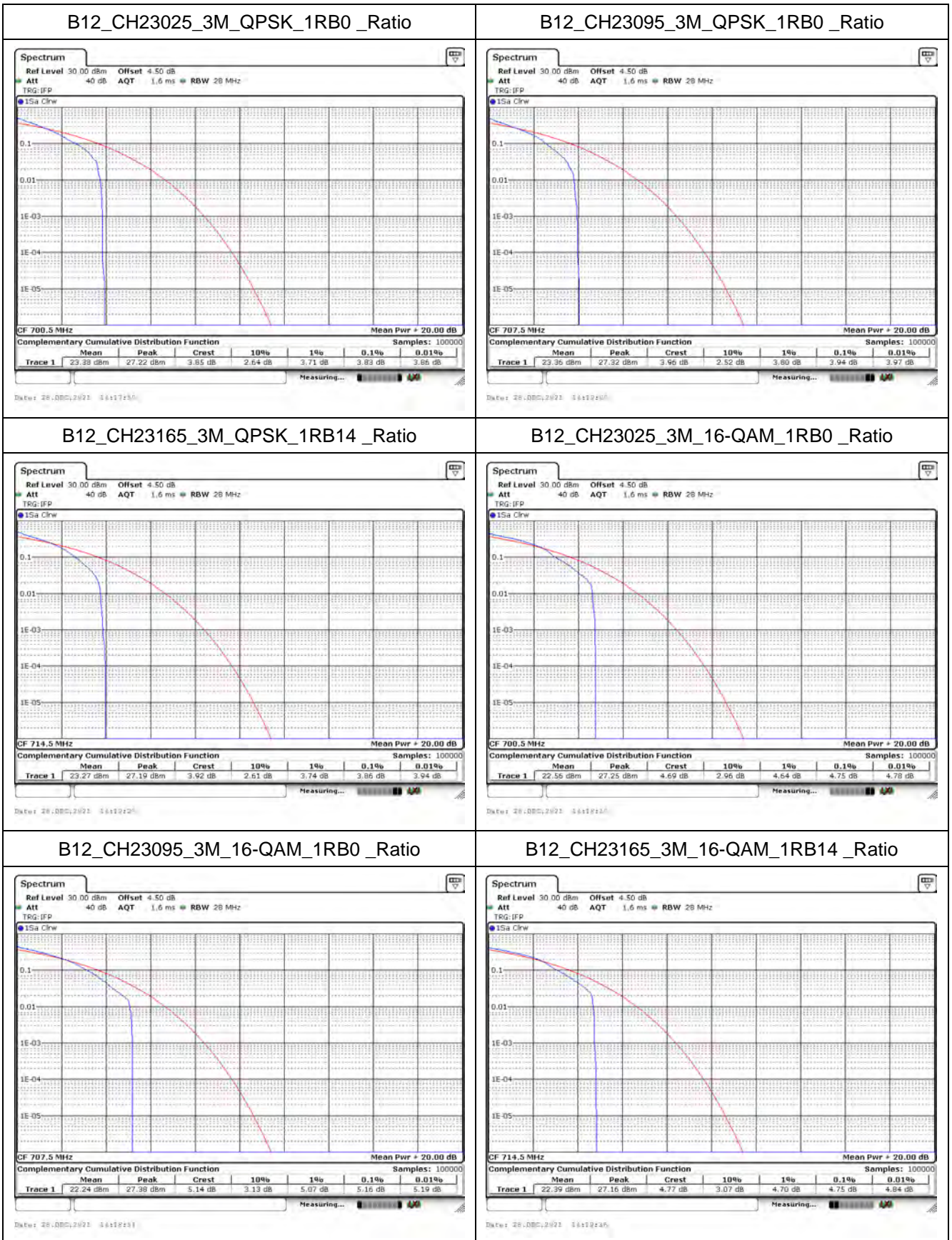


B12_CH23095_1.4M_64-QAM_1RB0_Ratio

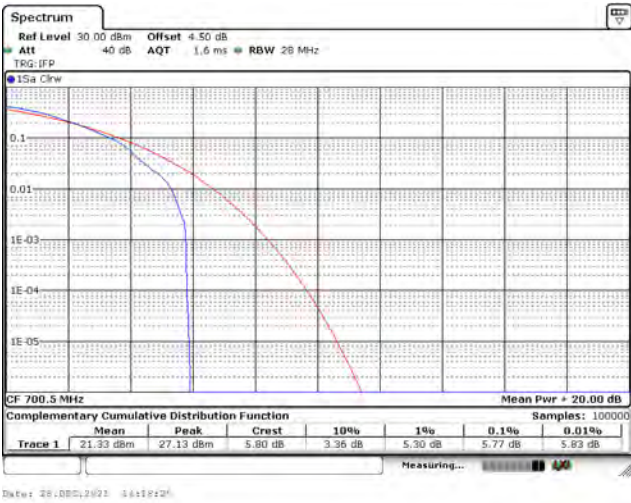


B12_CH23173_1.4M_64-QAM_1RB5_Ratio

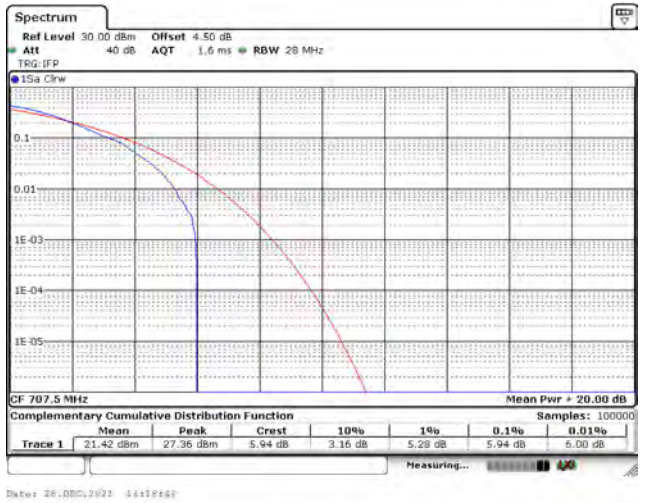




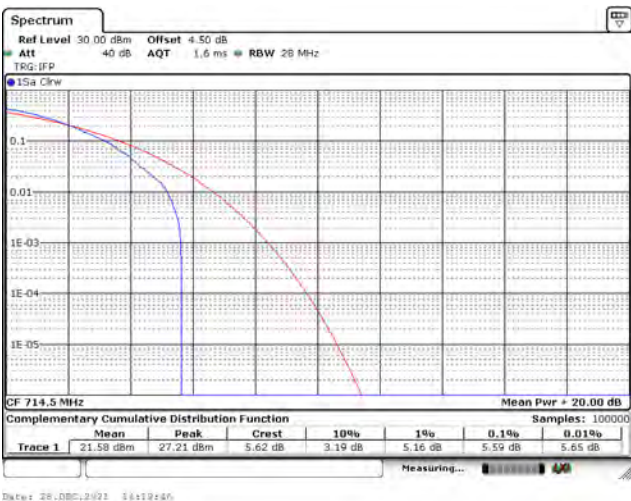
B12_CH23025_3M_64-QAM_1RB0_Ratio

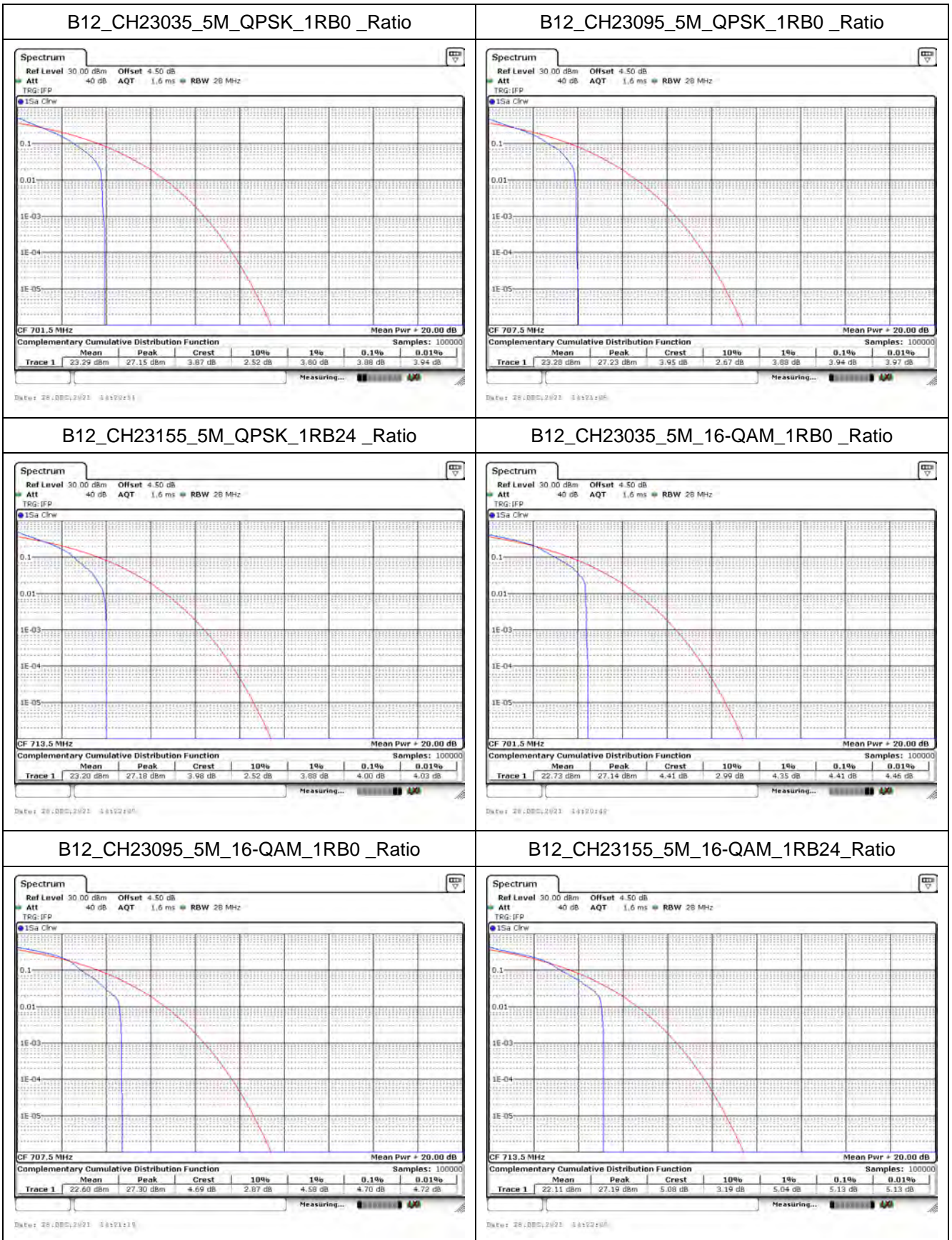


B12_CH23095_3M_64-QAM_1RB0_Ratio

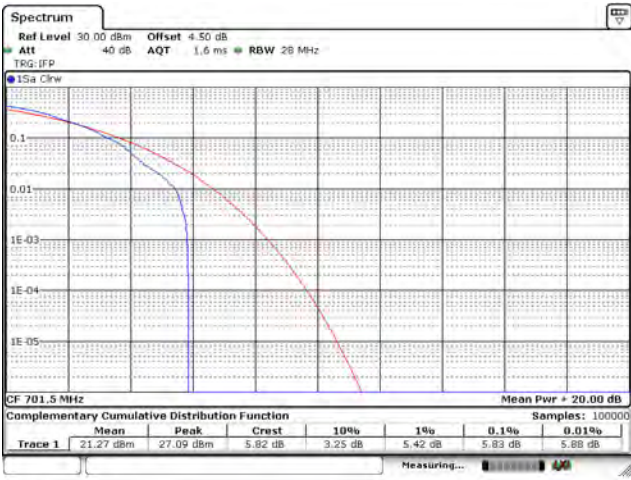


B12_CH23165_3M_64-QAM_1RB14_Ratio

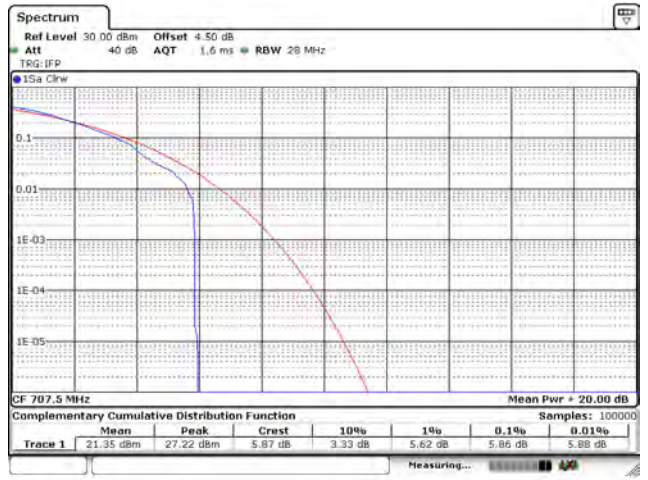




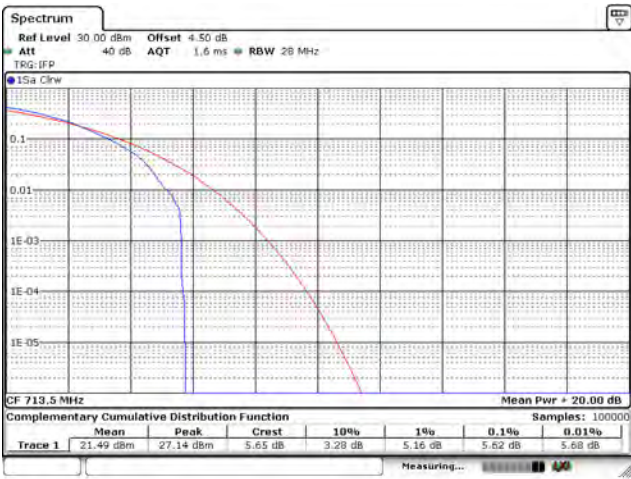
B12_CH23035_5M_64-QAM_1RB0_Ratio

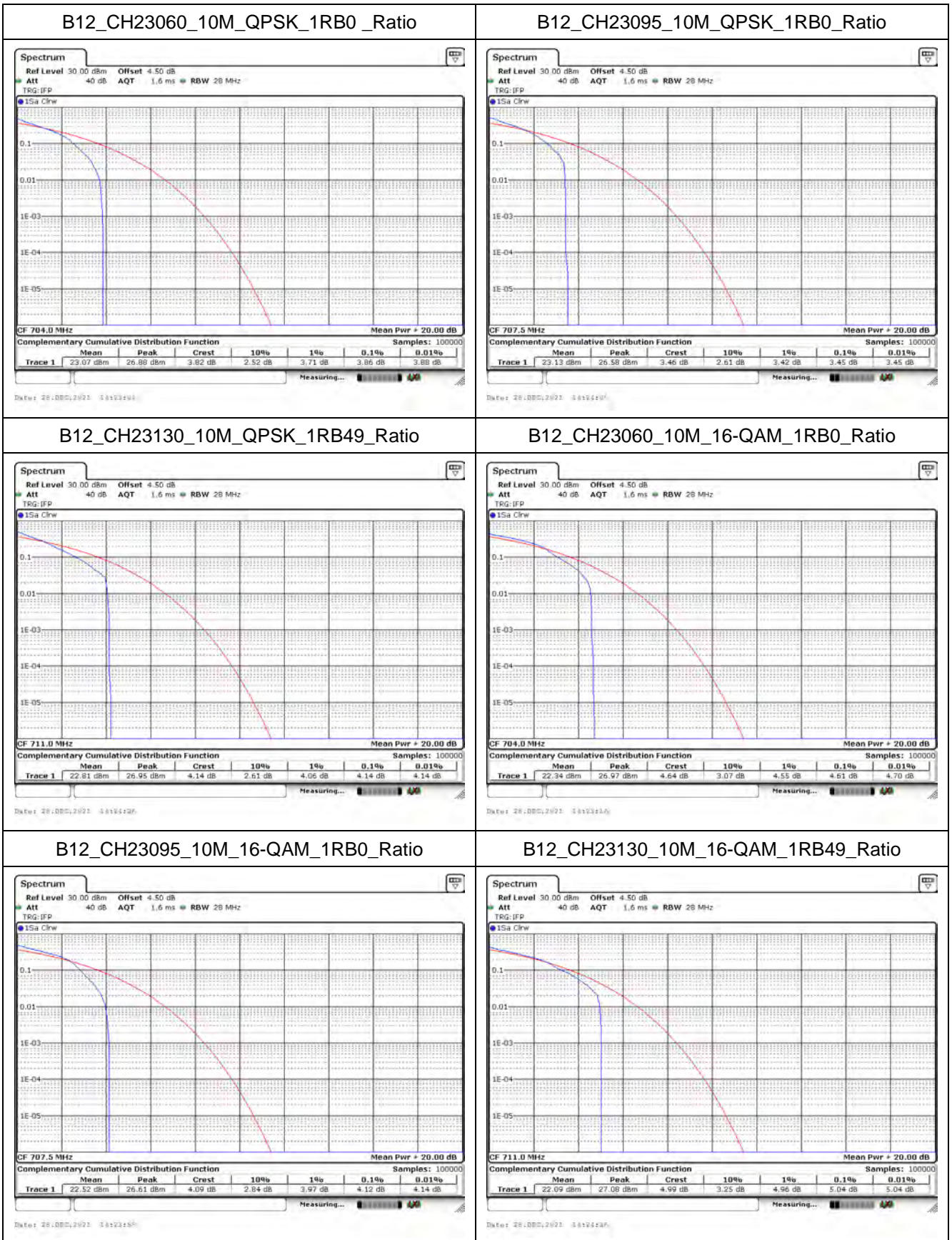


B12_CH23095_5M_64-QAM_1RB0_Ratio

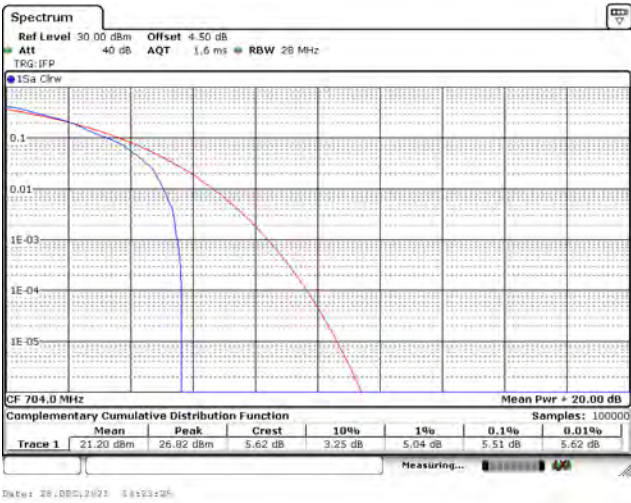


B12_CH23155_5M_64-QAM_1RB24_Ratio

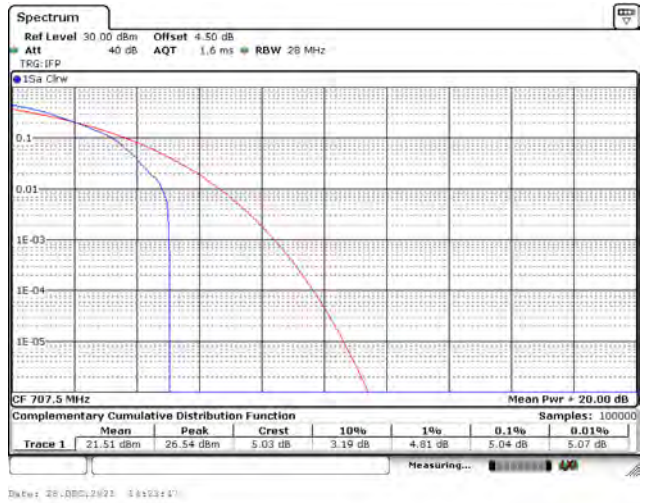




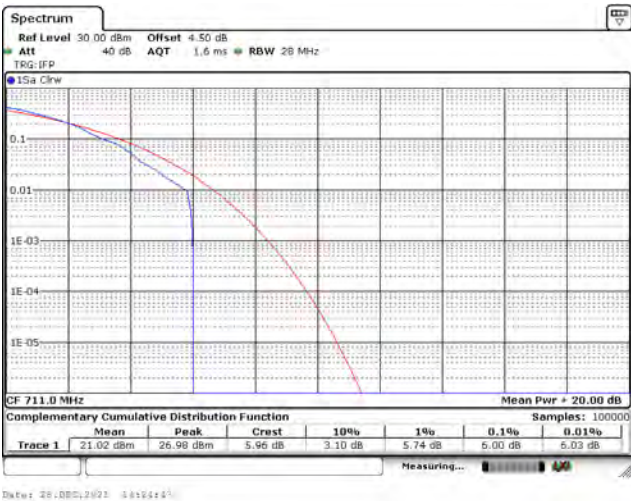
B12_CH23060_10M_64-QAM_1RB0_Ratio



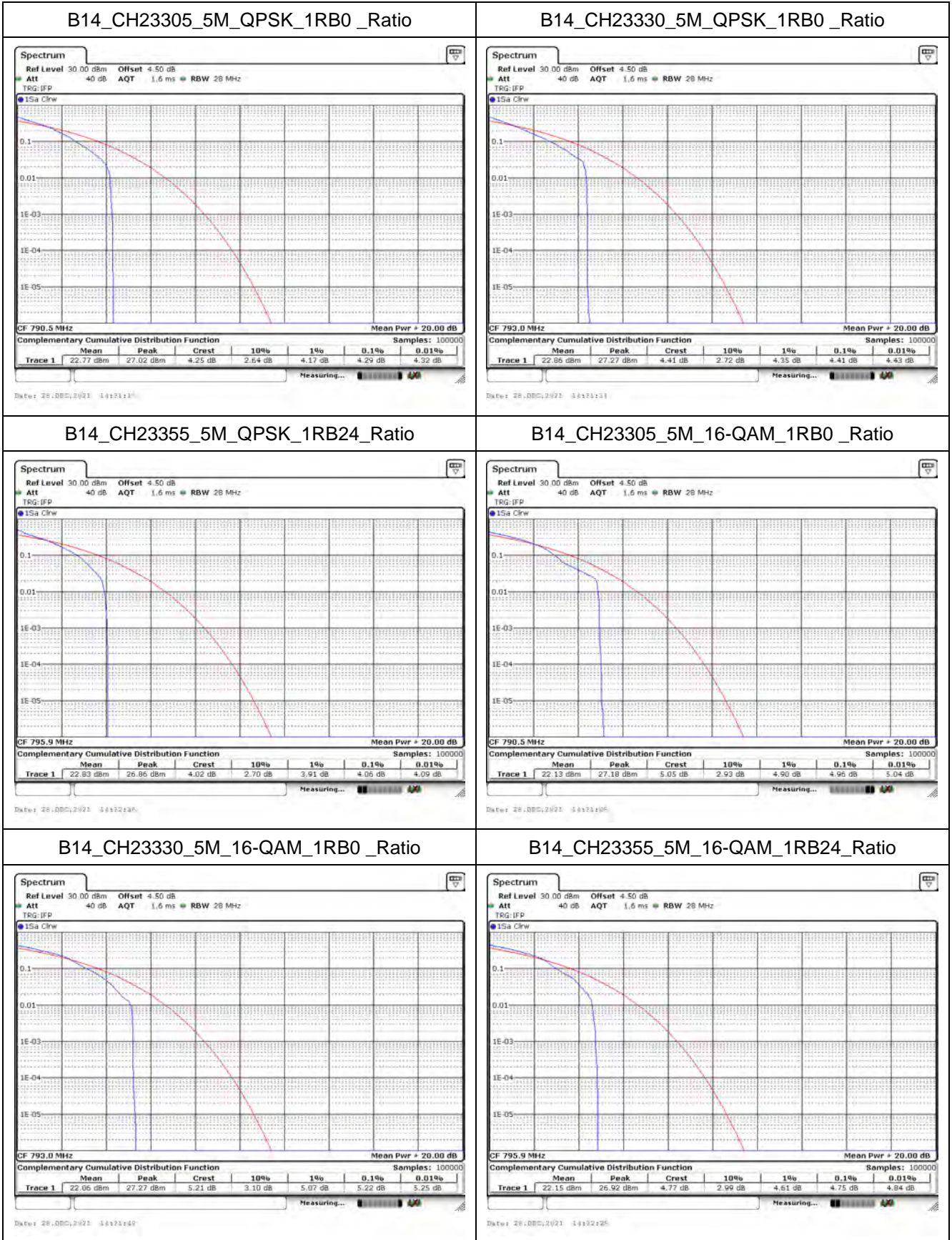
B12_CH23095_10M_64-QAM_1RB0_Ratio



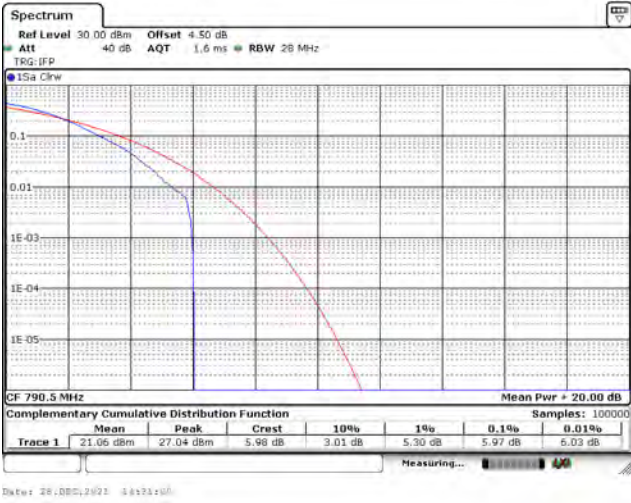
B12_CH23130_10M_64-QAM_1RB49_Ratio



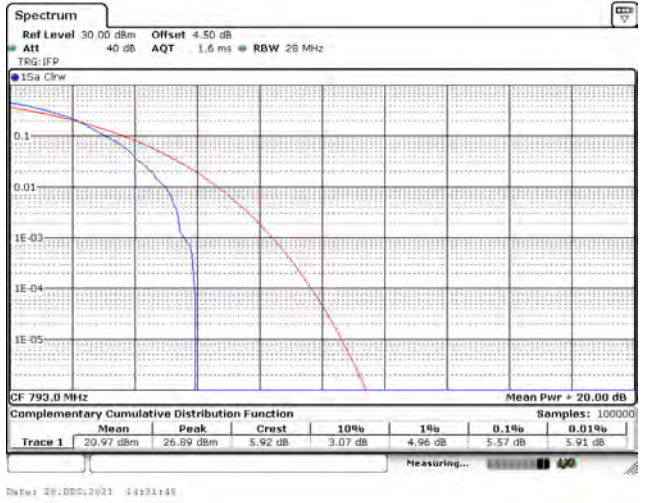
Mode 4: LTE Band 14



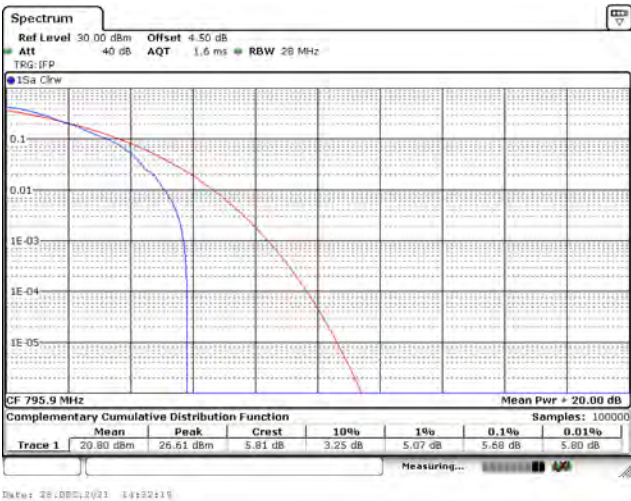
B14_CH23305_5M_64-QAM_1RB0_Ratio



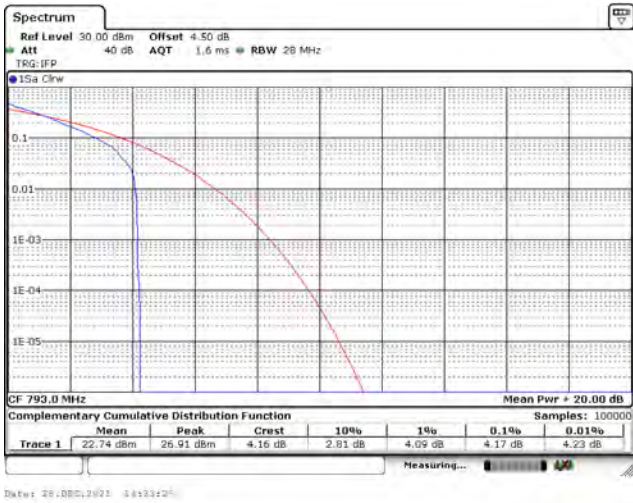
B14_CH23330_5M_64-QAM_1RB0_Ratio



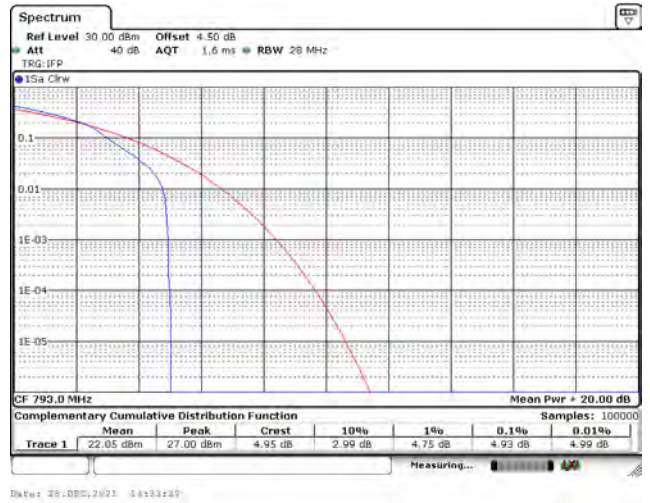
B14_CH23355_5M_64-QAM_1RB24_Ratio



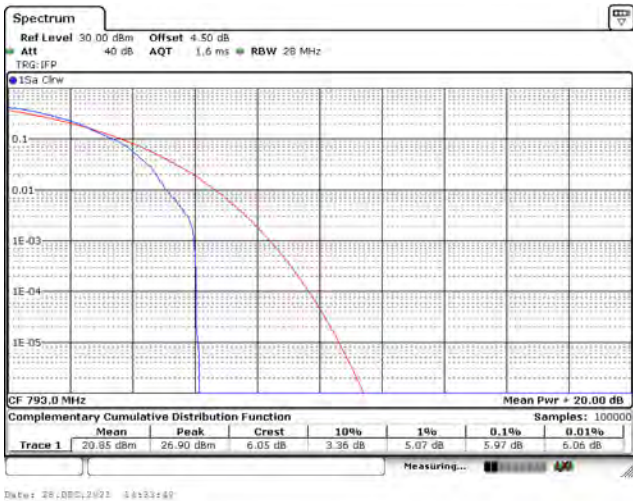
B14_CH23330_10M_QPSK_1RB0_Ratio



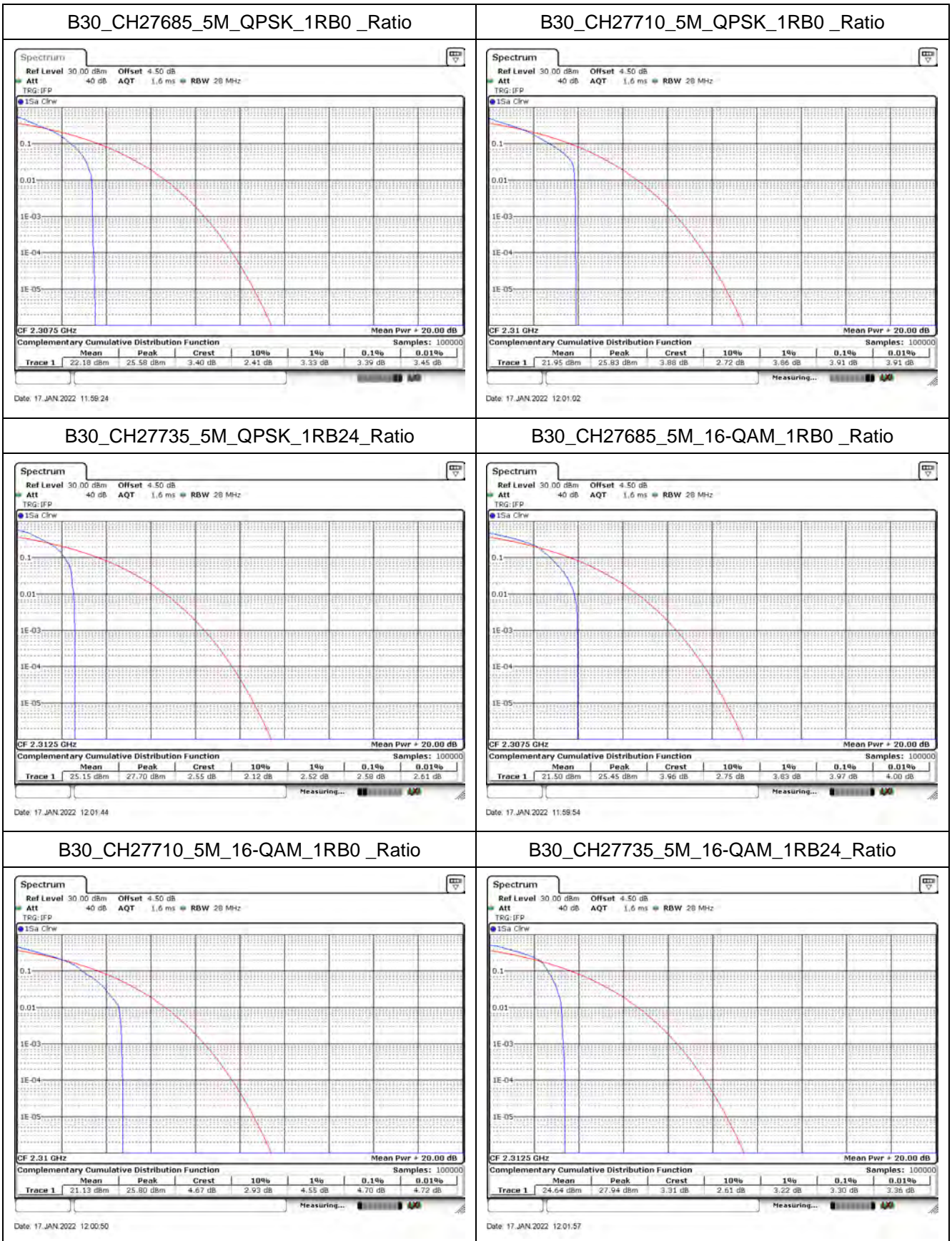
B14_CH23330_10M_16-QAM_1RB0_Ratio



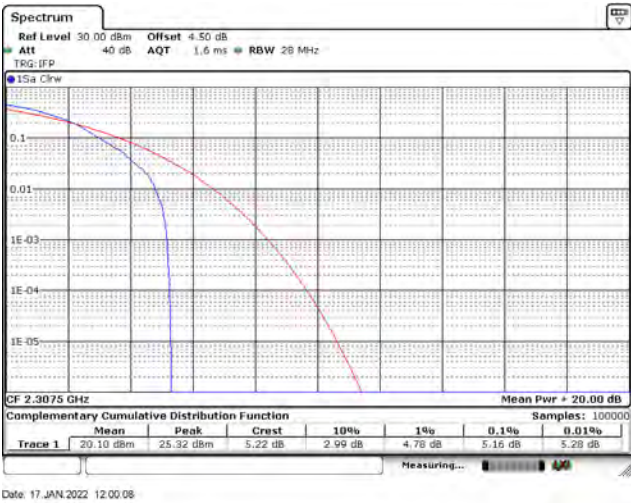
B14_CH23330_10M_64-QAM_1RB0_Ratio



Mode 5: LTE Band 30

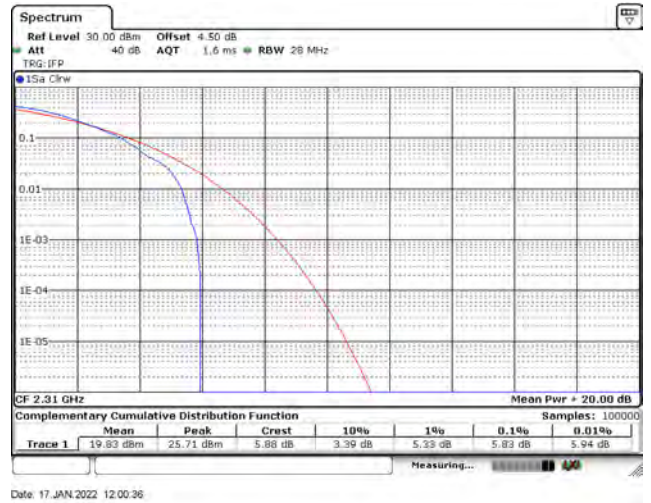


B30_CH27685_5M_64-QAM_1RB0_Ratio



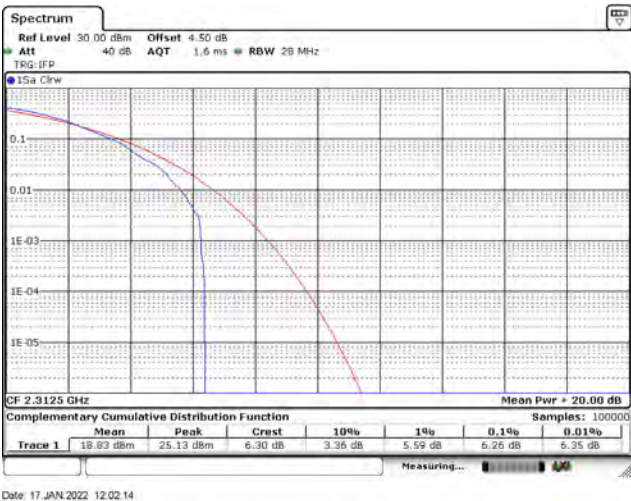
Date: 17.JAN.2022 12:00:08

B30_CH27710_5M_64-QAM_1RB0_Ratio



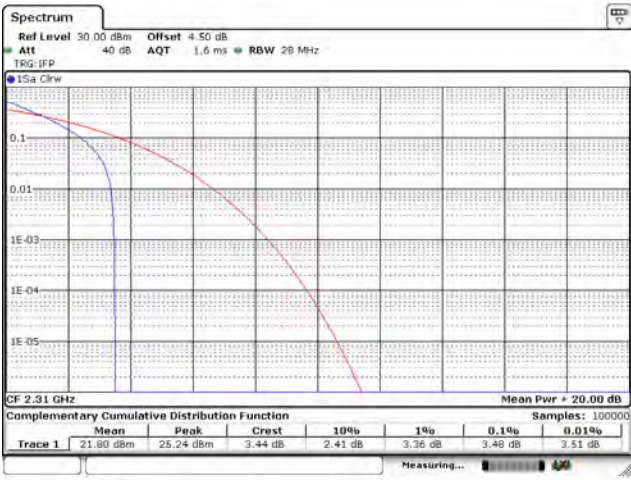
Date: 17.JAN.2022 12:00:36

B30_CH27735_5M_64-QAM_1RB24_Ratio



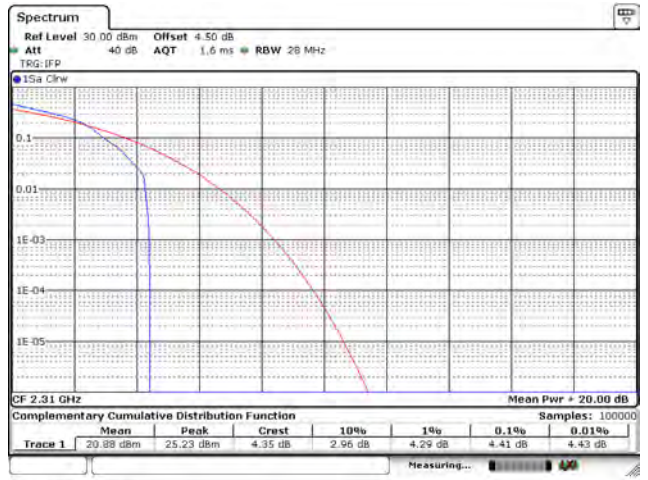
Date: 17.JAN.2022 12:02:14

B30_CH27710_10M_QPSK_1RB0_Ratio



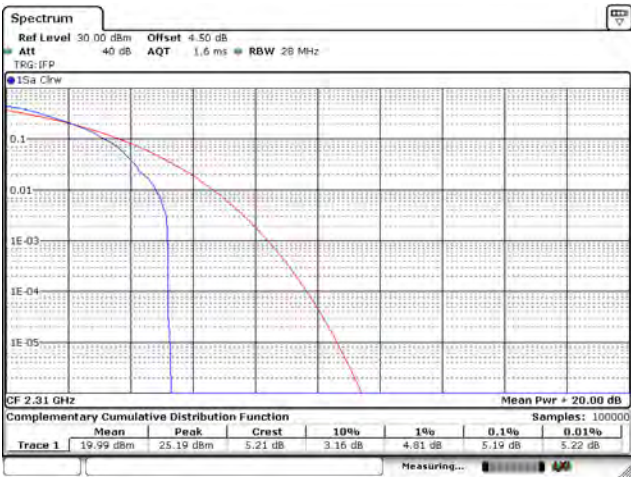
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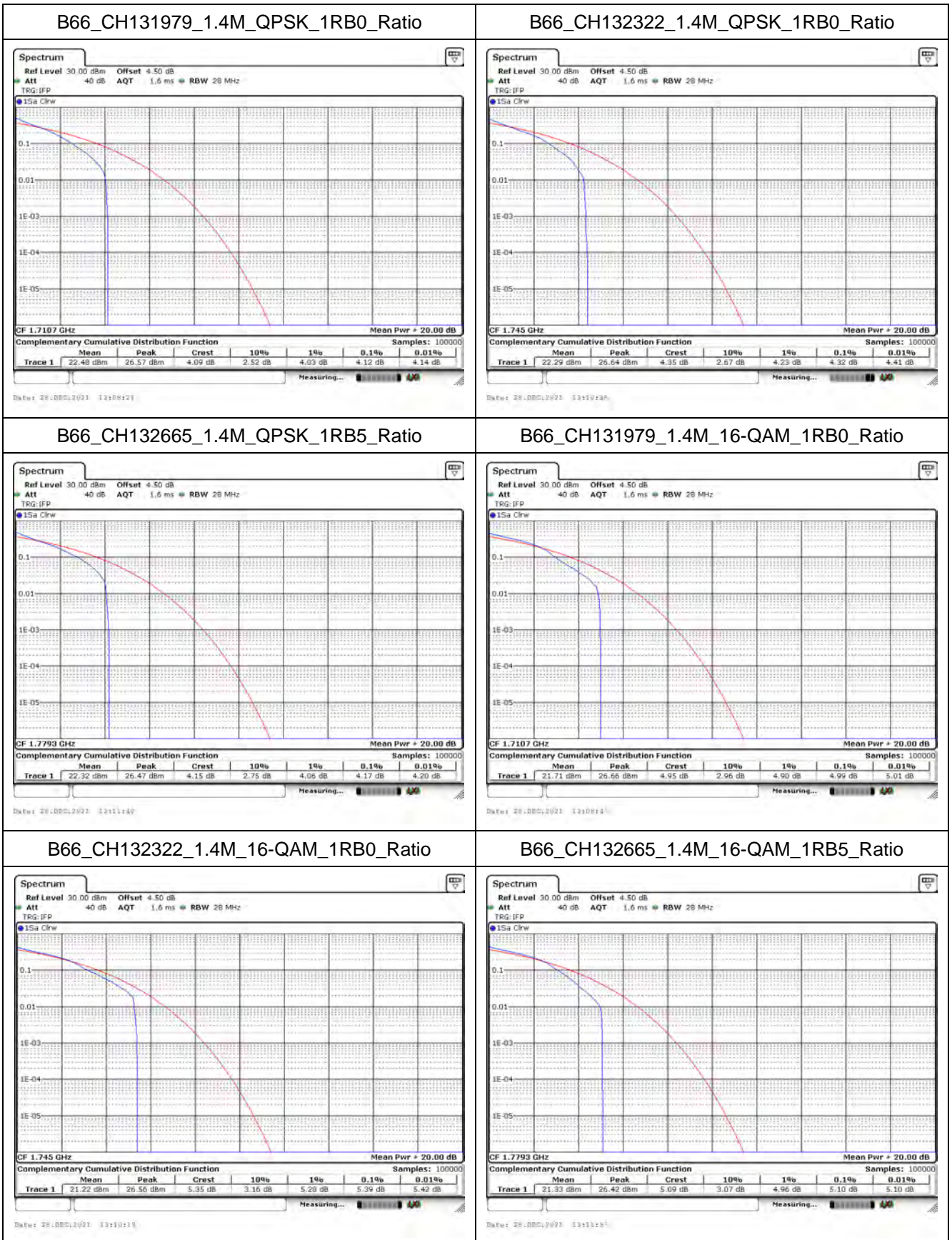
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B30_CH27710_10M_64-QAM_1RB0_Ratio

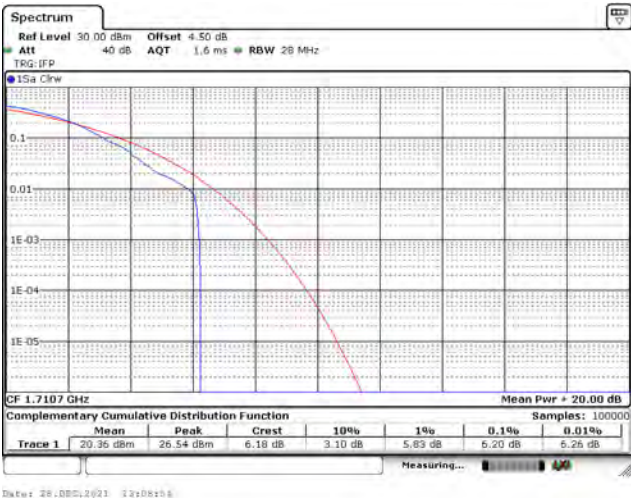


Date: 17.JAN.2022 12:03:40

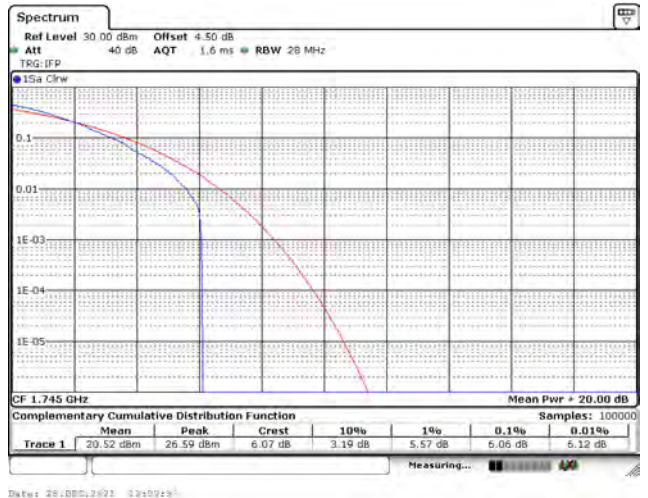
Mode 6: LTE Band 66



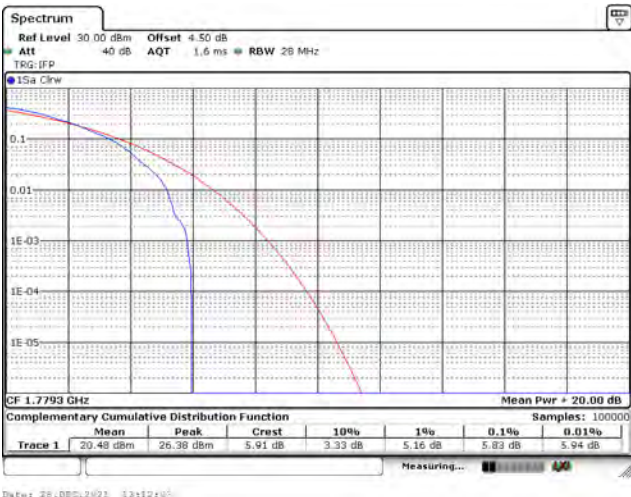
B66_CH131979_1.4M_64-QAM_1RB0_Ratio

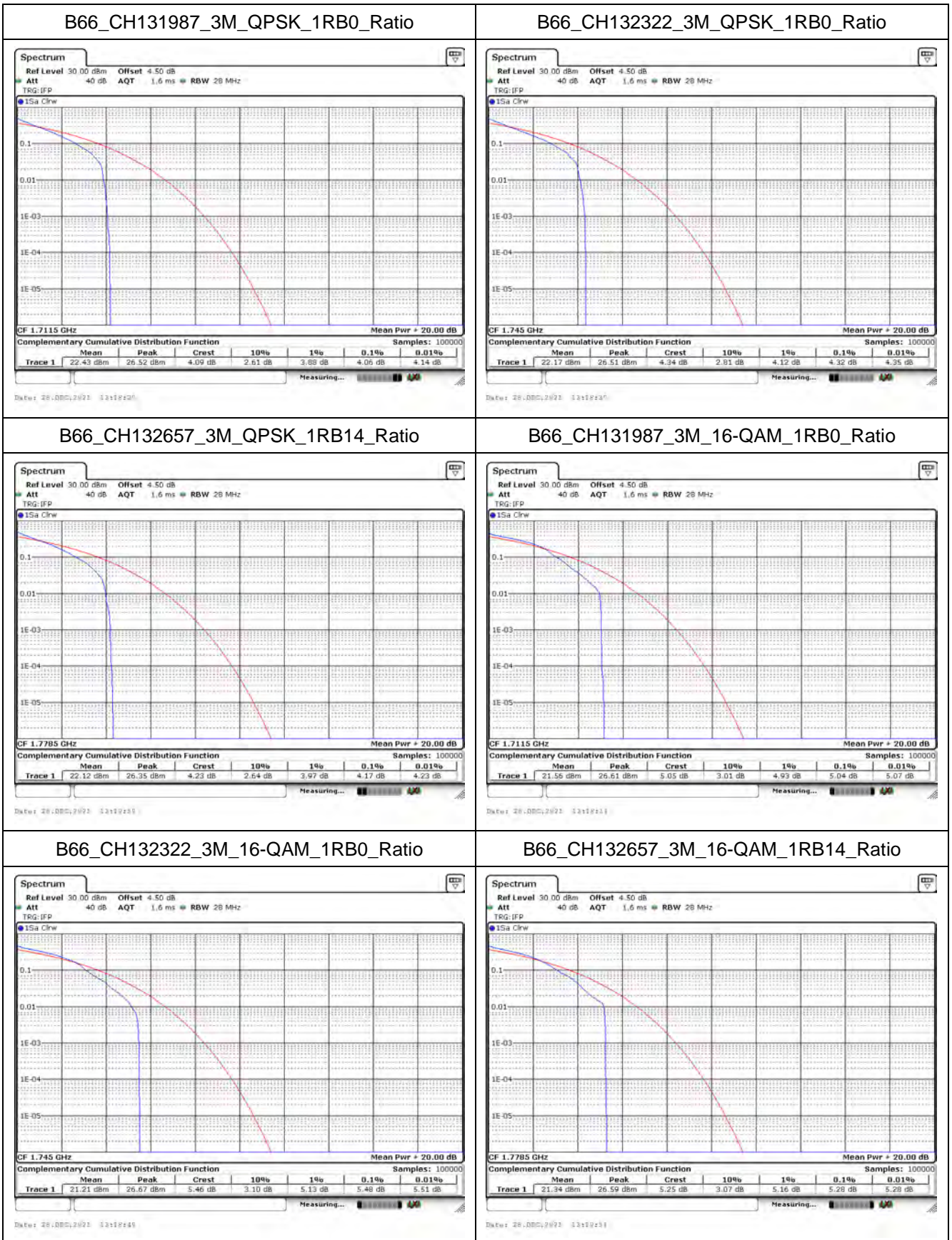


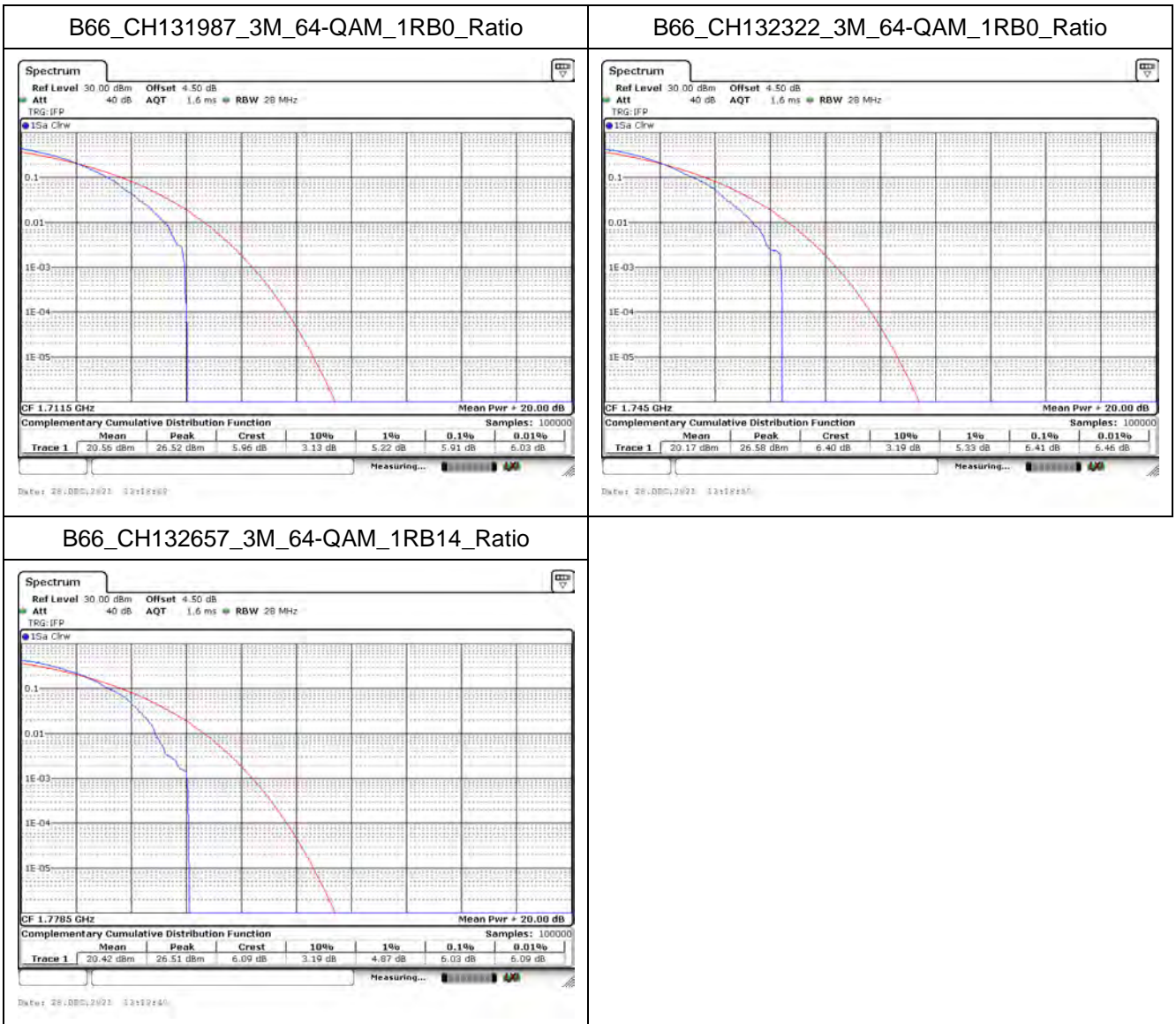
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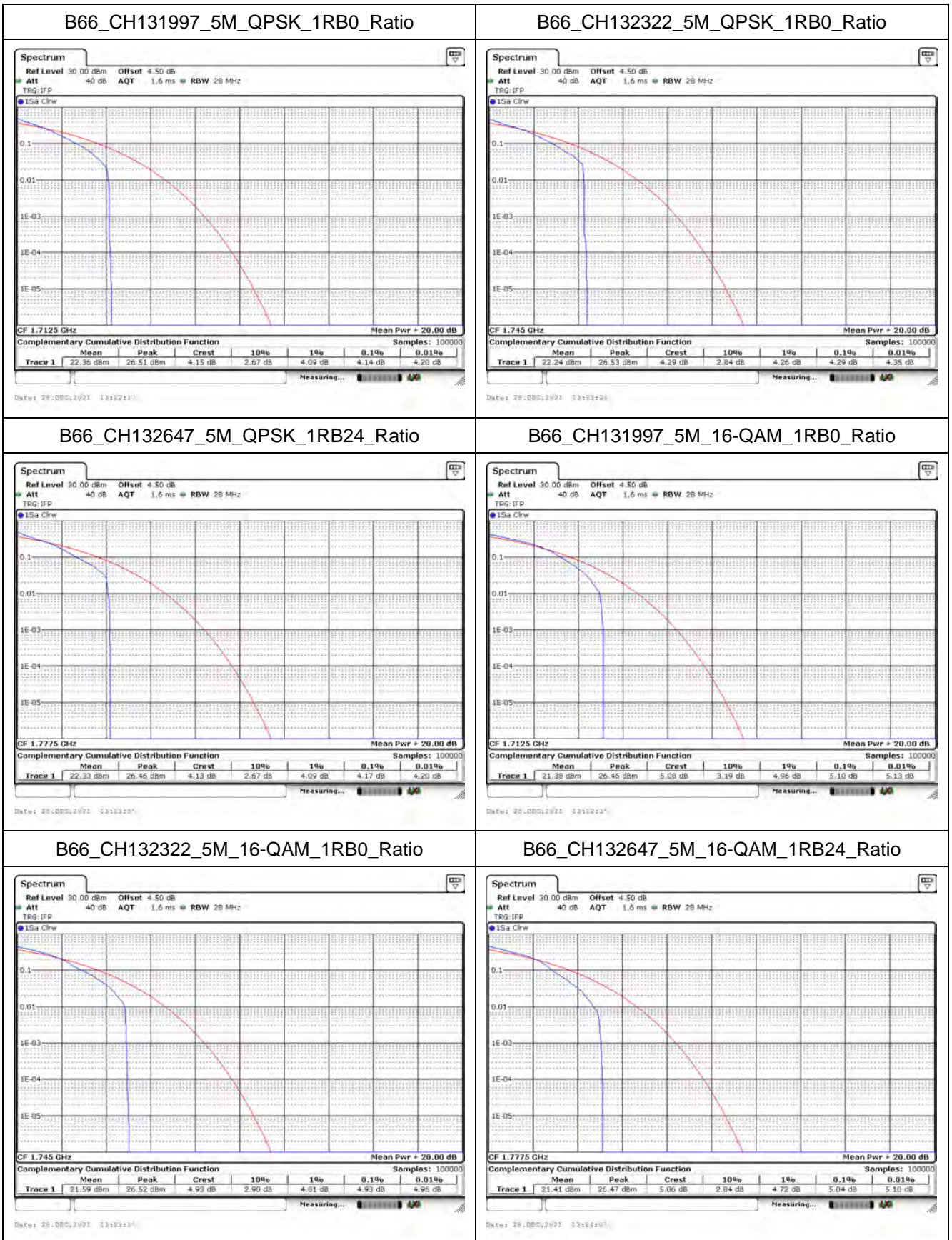


B66_CH132665_1.4M_64-QAM_1RB5_Ratio

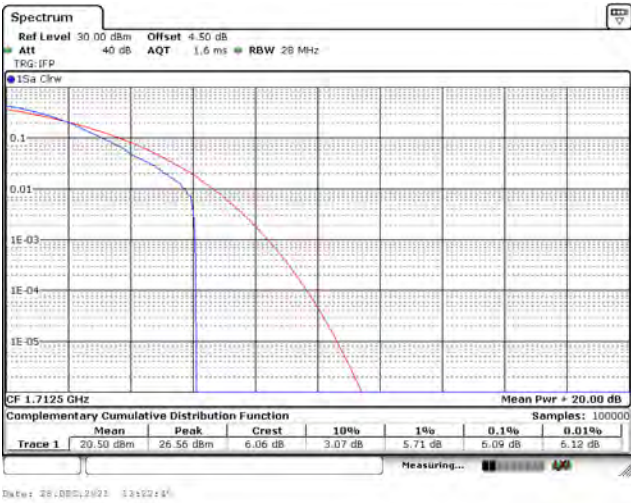




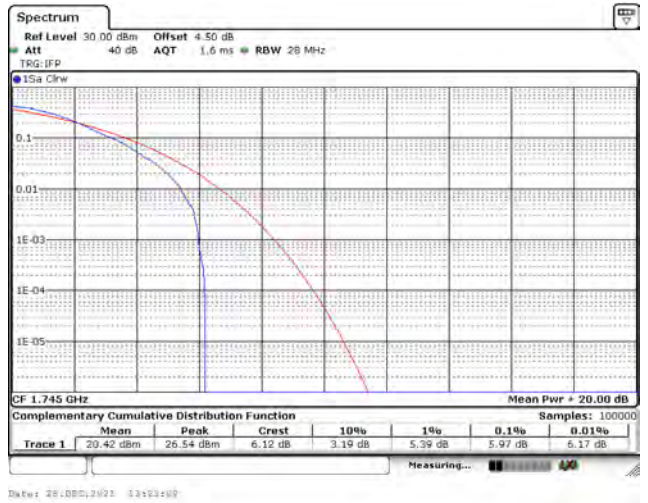




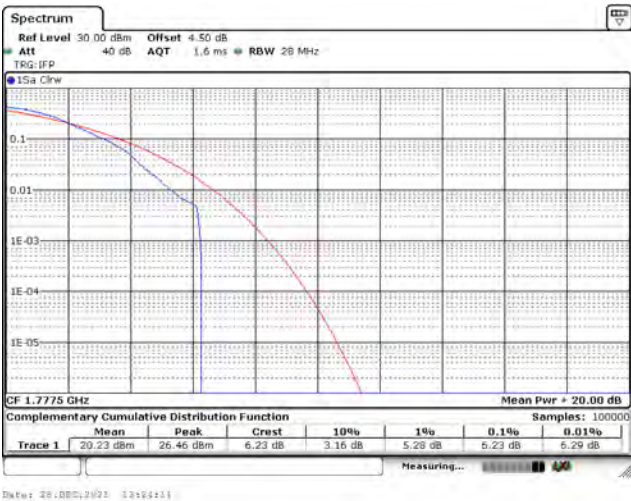
B66_CH131997_5M_64-QAM_1RB0_Ratio

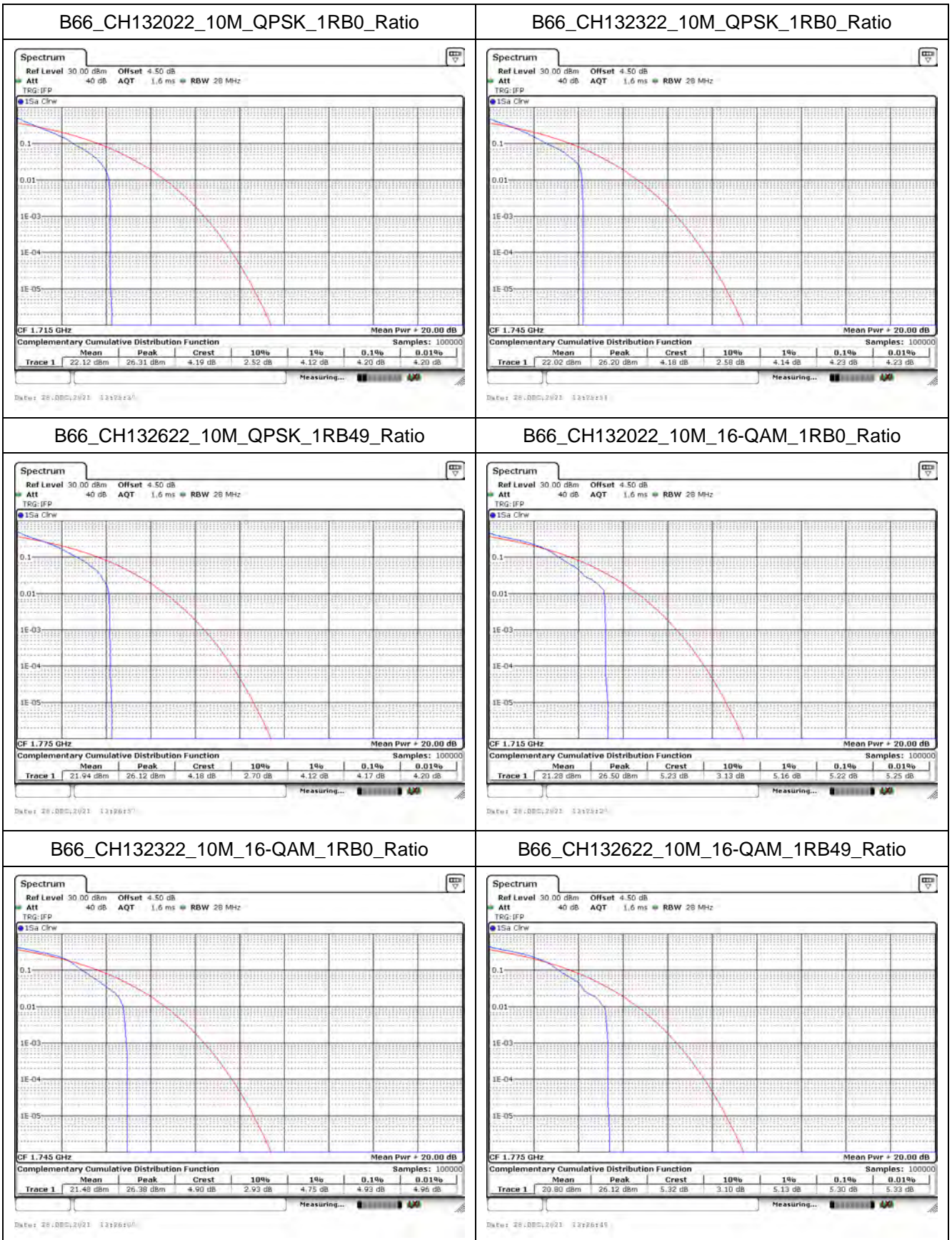


B66_CH132322_5M_64-QAM_1RB0_Ratio

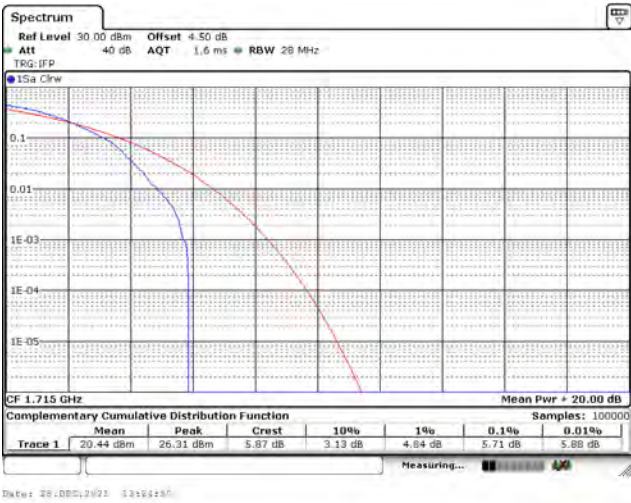


B66_CH132647_5M_64-QAM_1RB24_Ratio

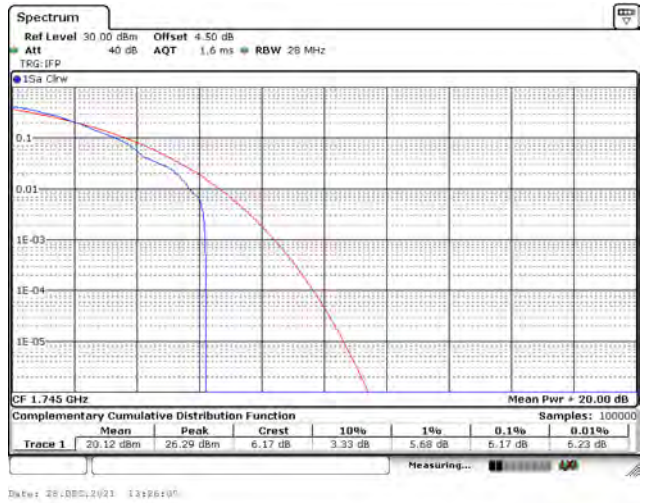




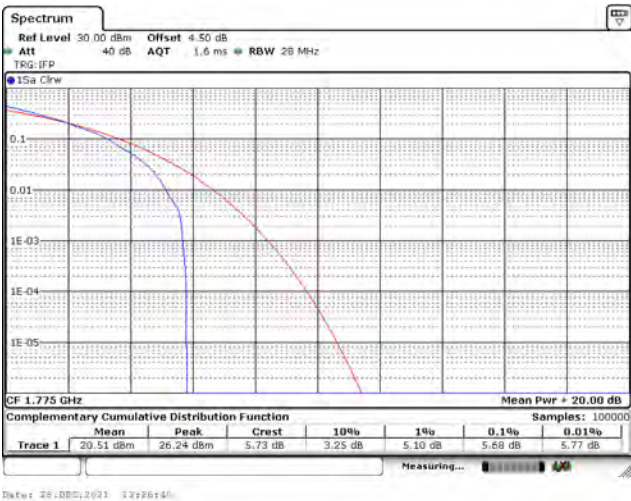
B66_CH132022_10M_64-QAM_1RB0_Ratio

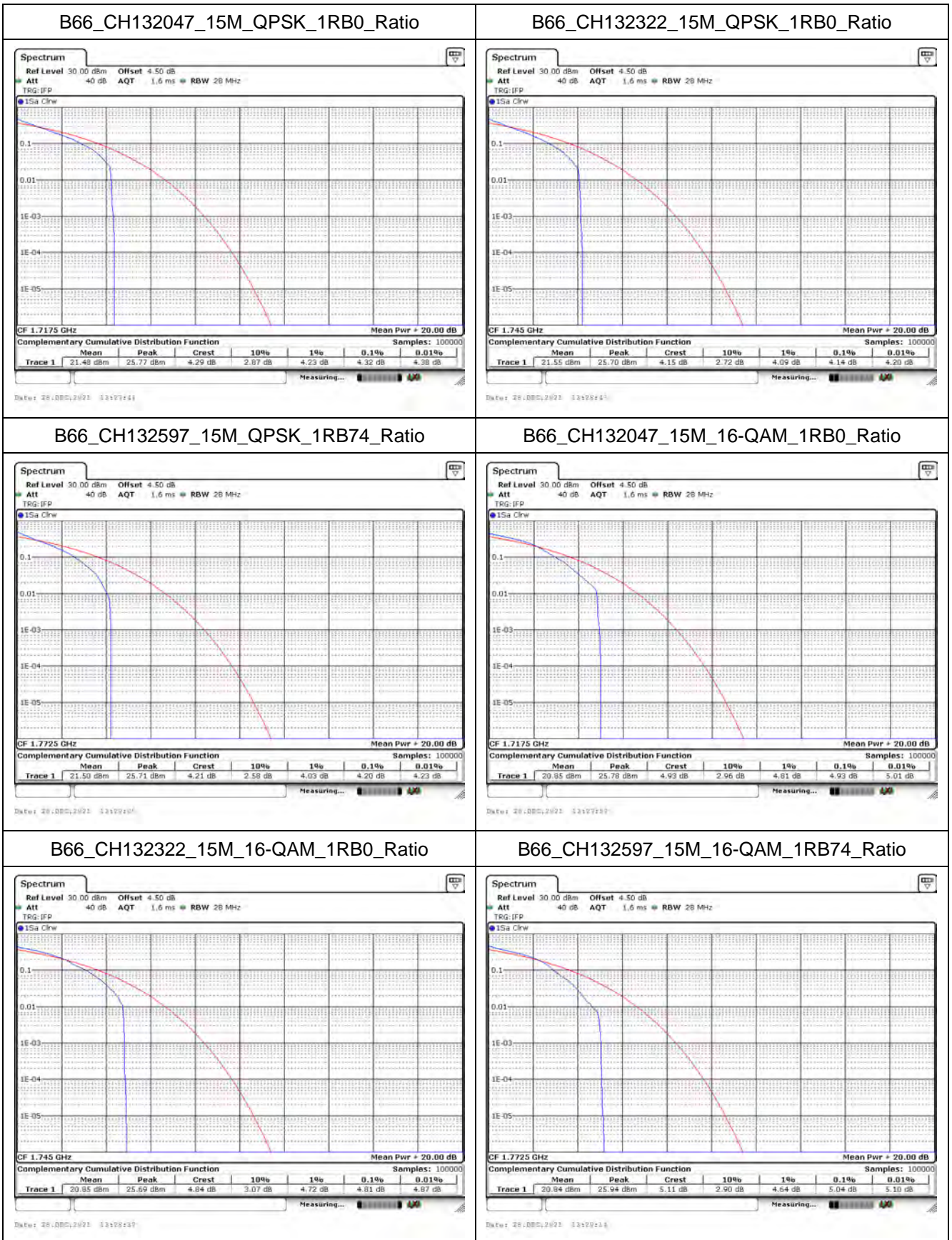


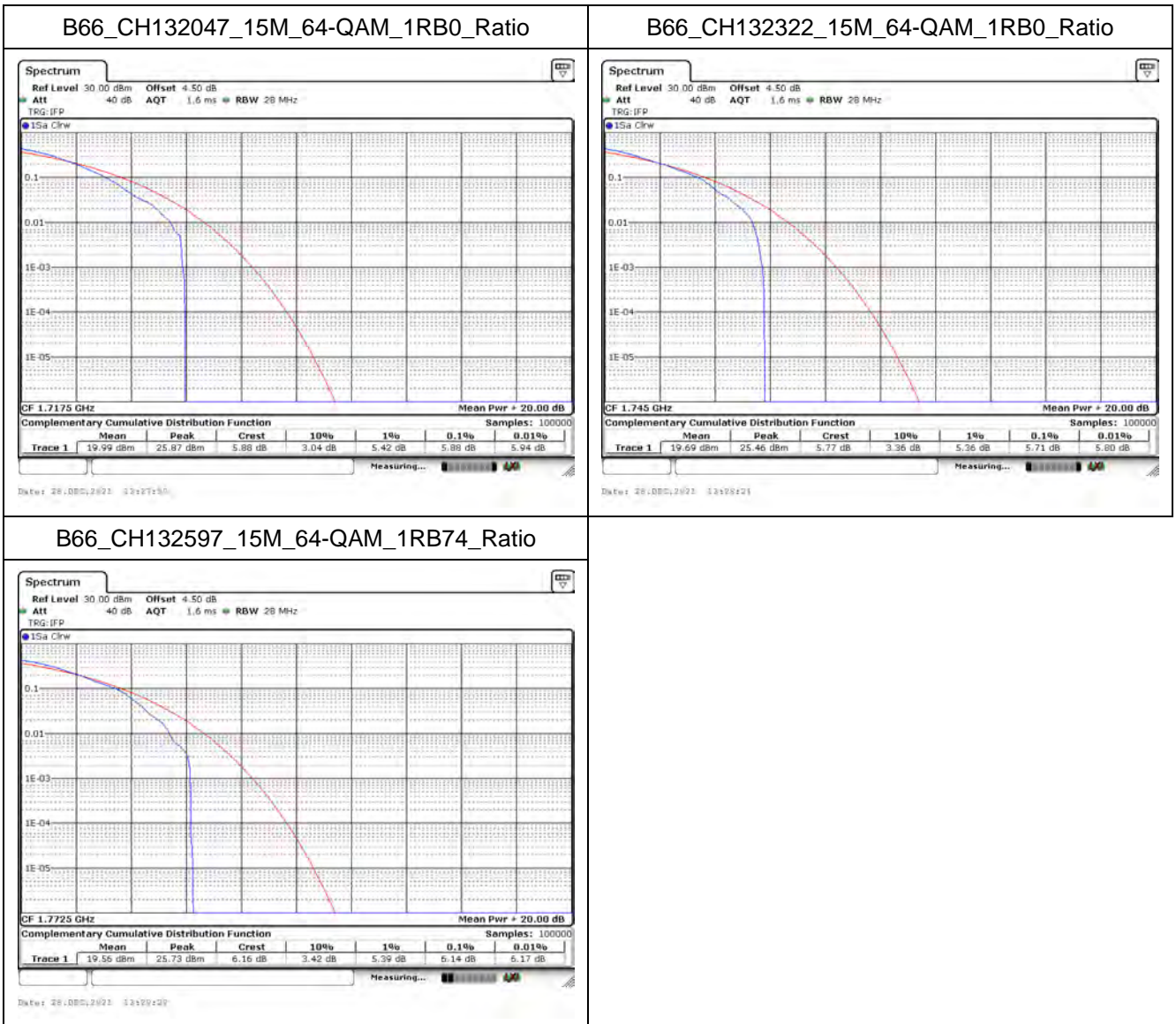
B66_CH132322_10M_64-QAM_1RB0_Ratio

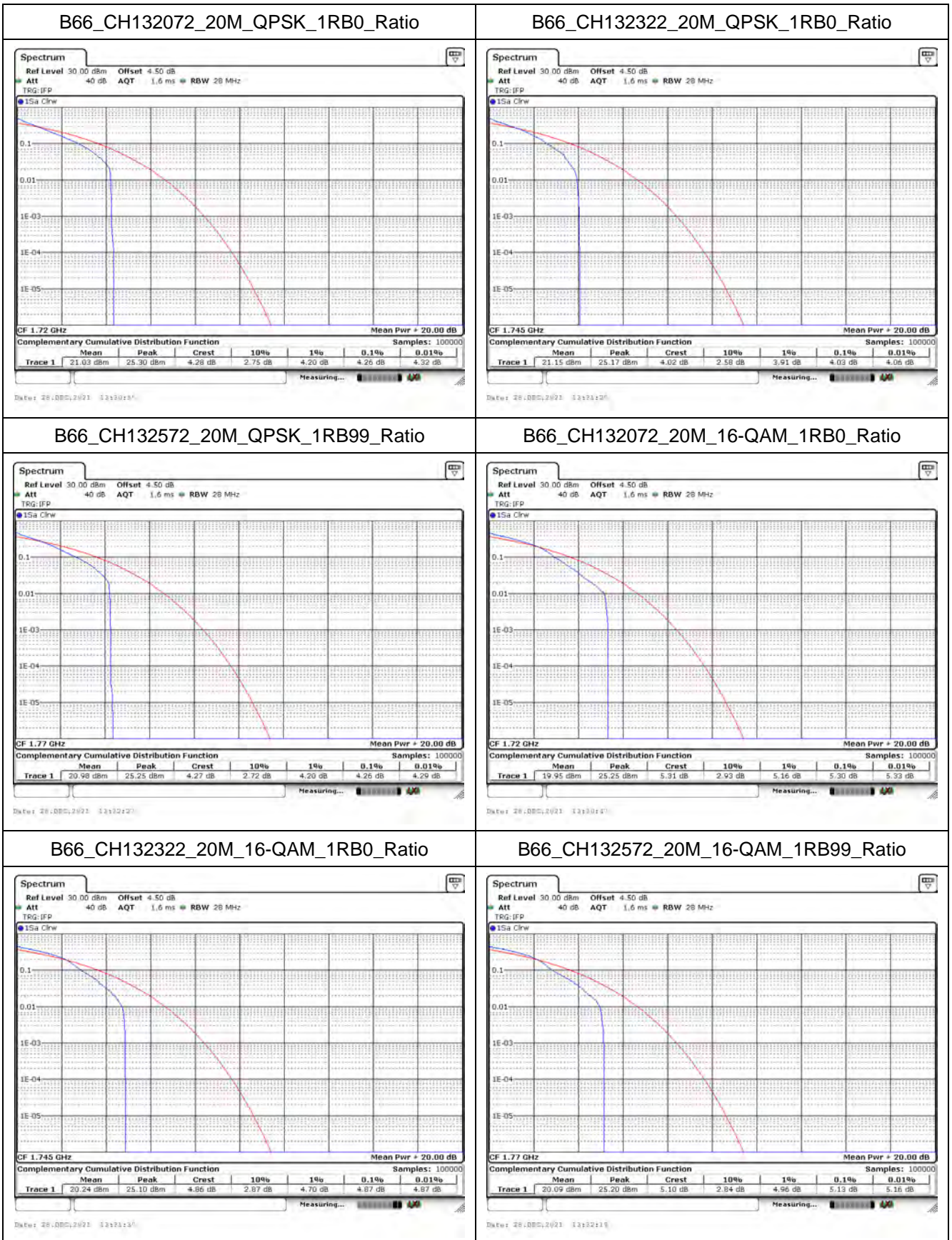


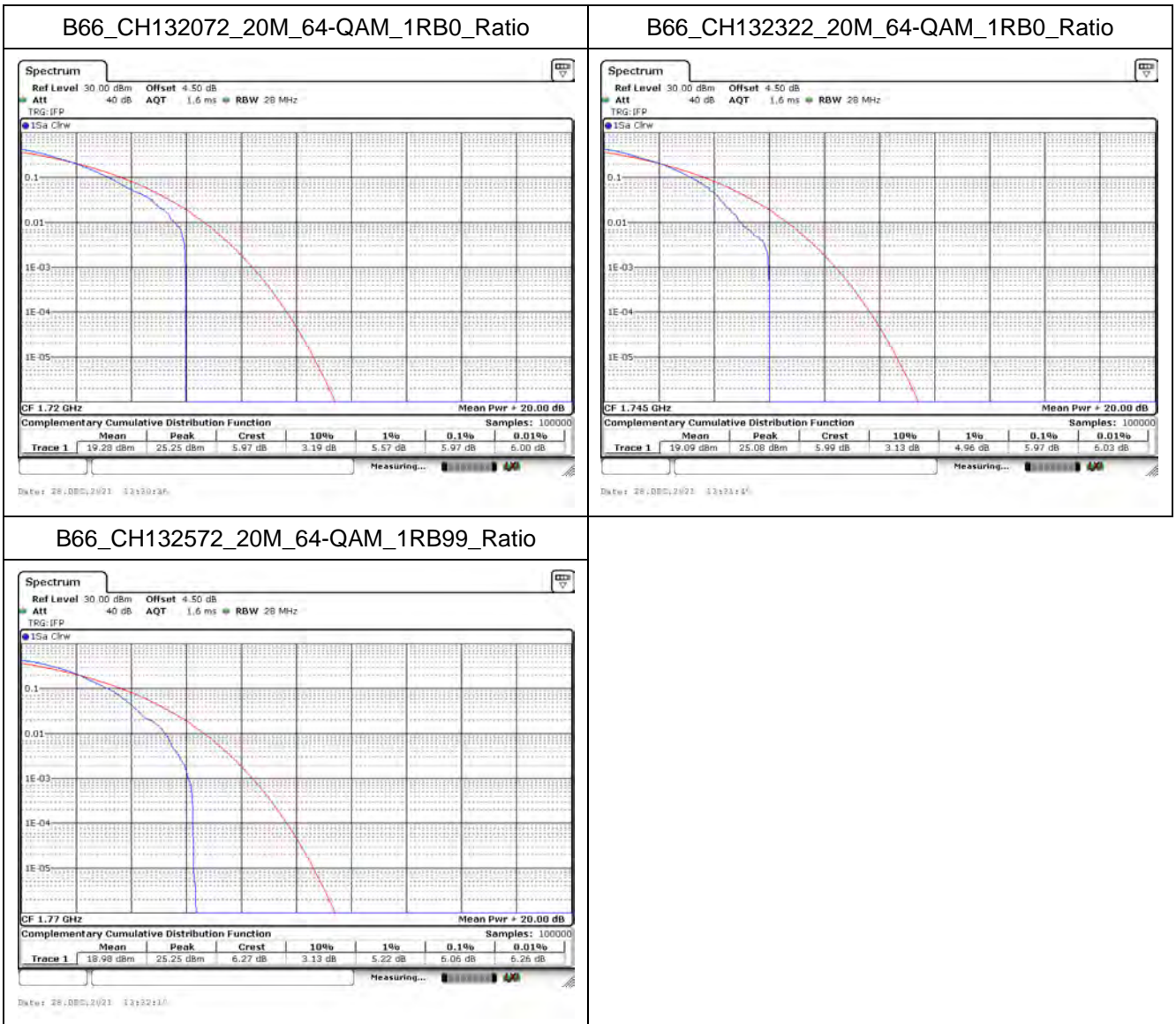
B66_CH132622_10M_64-QAM_1RB49_Ratio



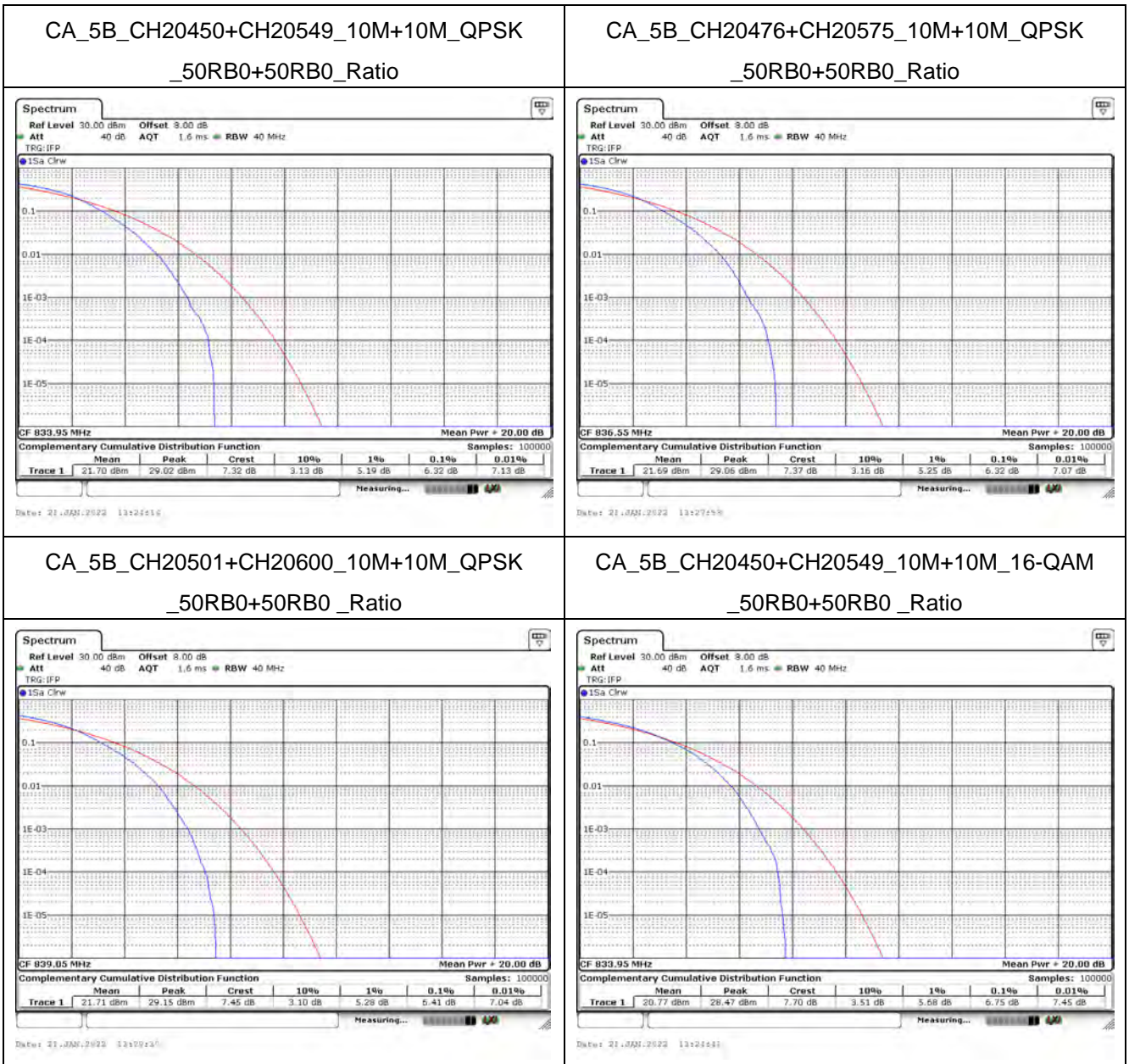


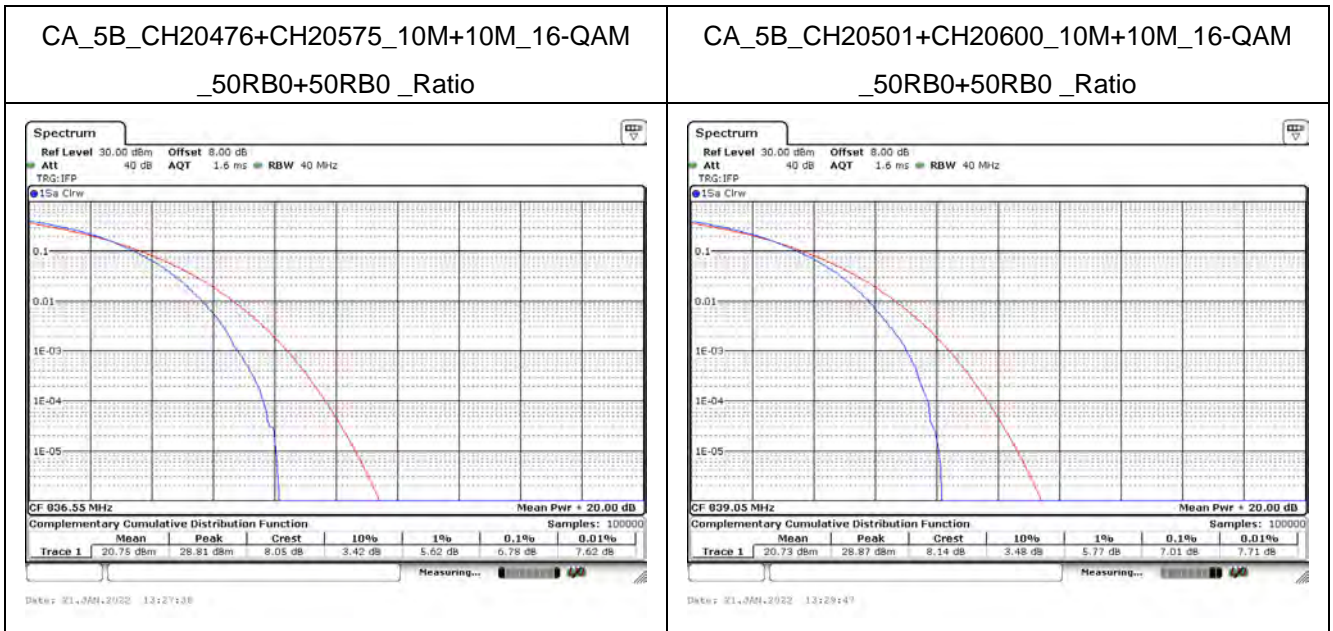




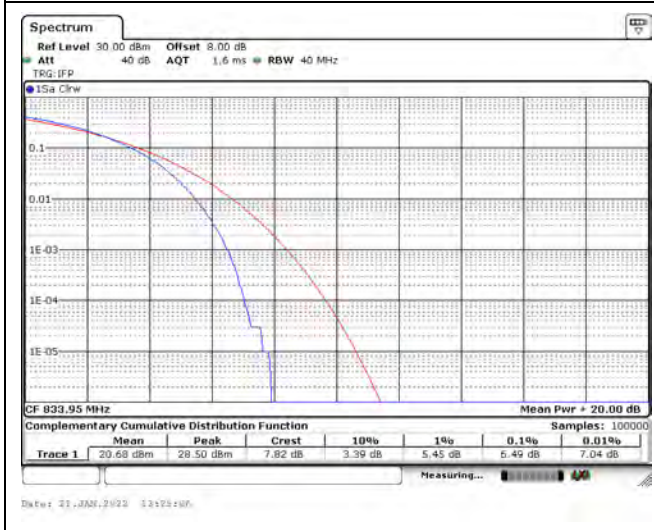


Mode 7: LTE CA Band 5B

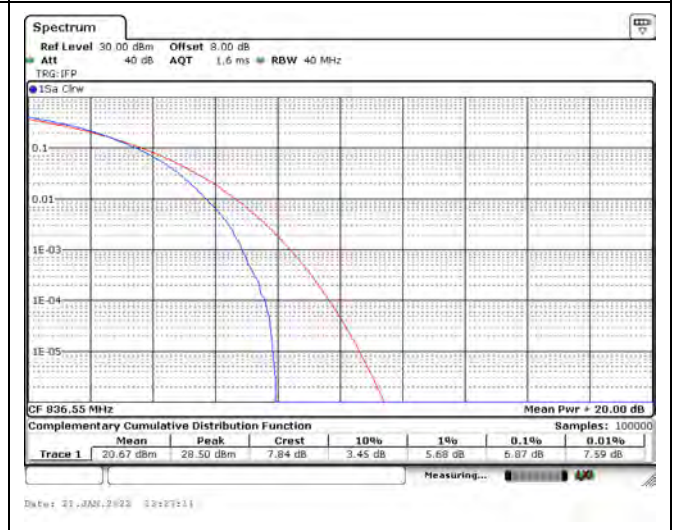




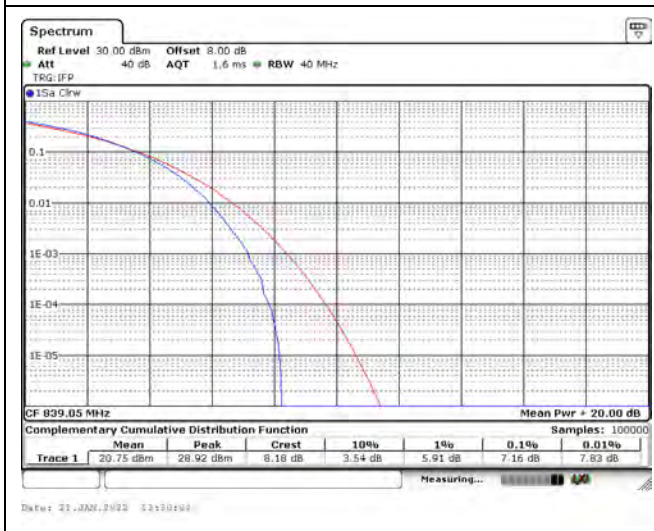
CA_5B_CH20450+CH20549_10M+10M_64-QAM
_50RB0+50RB0_Ratio



CA_5B_CH20476+CH20575_10M+10M_64-QAM
_50RB0+50RB0_Ratio



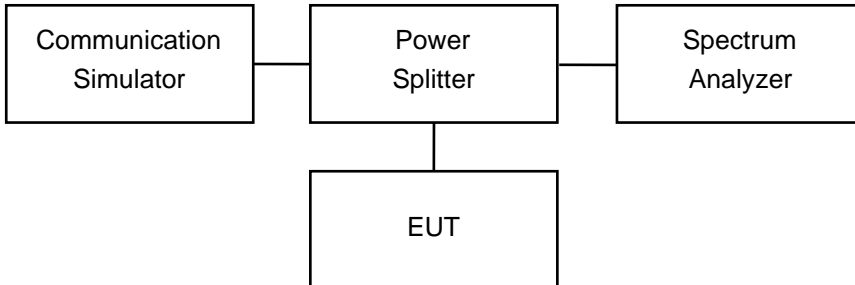
CA_5B_CH20501+CH20600_10M+10M_64-QAM
_50RB0+50RB0_Ratio



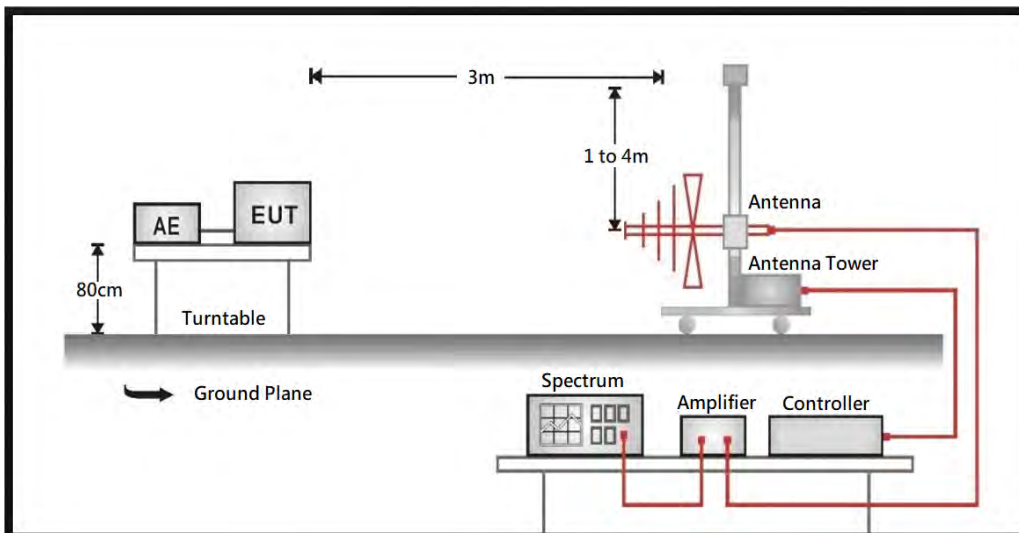
6. Spurious Emissions

6.1. Test Setup

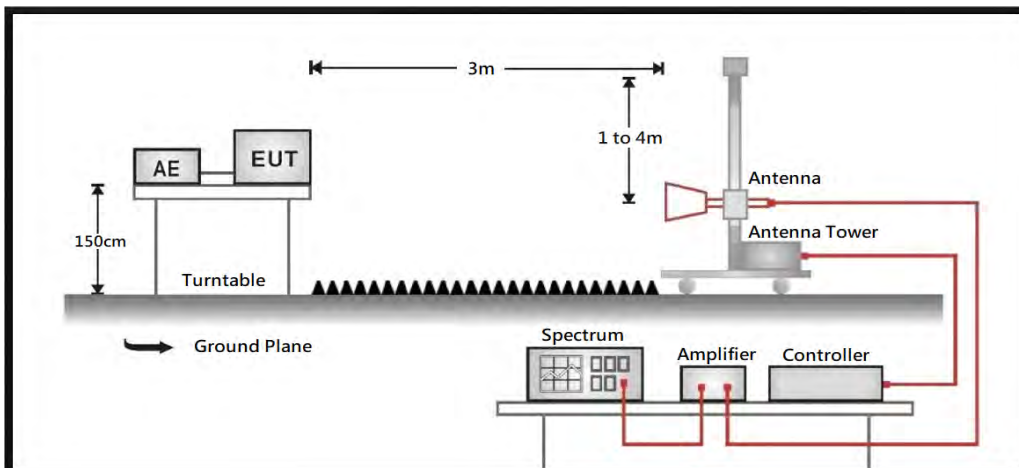
Conducted Spurious Measurement



Radiated Spurious Measurement: below 1GHz



Radiated Spurious Measurement: above 1GHz



6.2. Test Procedure

Conducted Spurious Measurement:

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. The path loss was compensated to the results for each measurement. The resolution bandwidth of the spectrum analyzer was set at 1 MHz, sufficient scans were taken to show the out of band Emission if any up to 10th harmonic.

Radiated Spurious Measurement:

The EUT and its simulators are placed on a turn table which is 0.8 or 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations. The resolution bandwidth of the spectrum analyzer was set at 1 MHz, sufficient scans were taken to show the out of band Emission if any up to 10th harmonic. Taking the record of maximum spurious emission.

6.3. Test Methodology and Reference Procedures

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI C63.26-2015

6.4. Test Result of Conducted Spurious Emission

Mode 1: LTE Band 2

