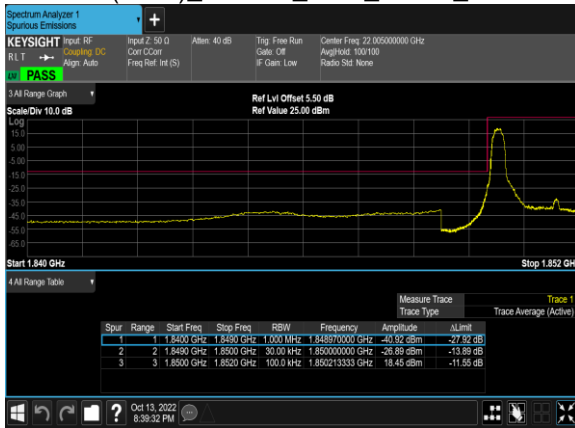
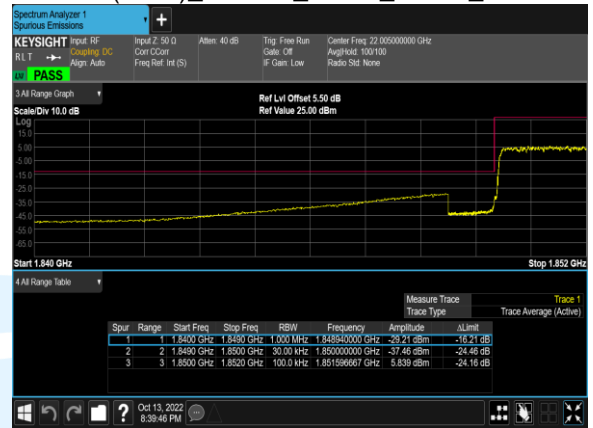


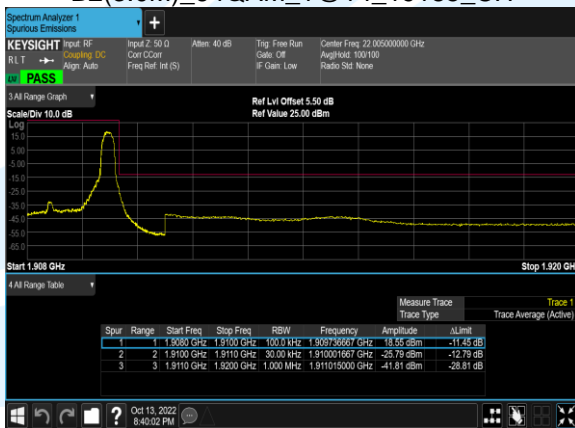
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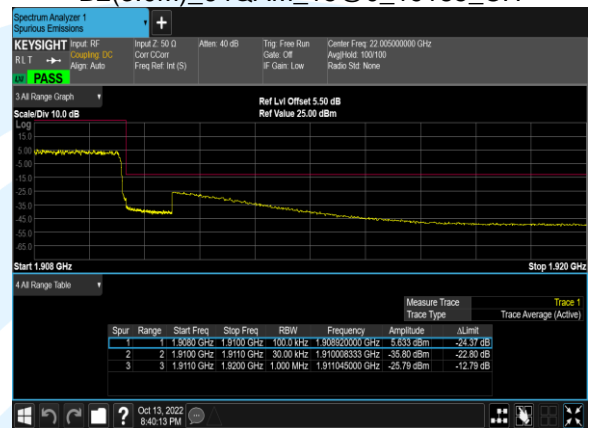
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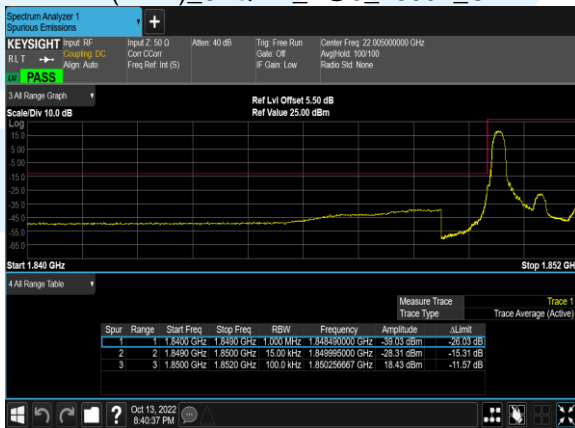
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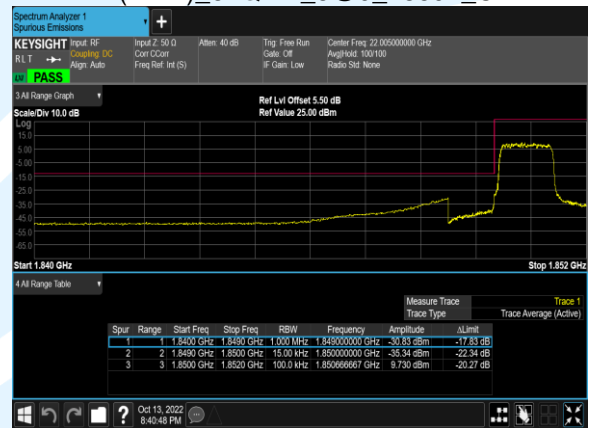
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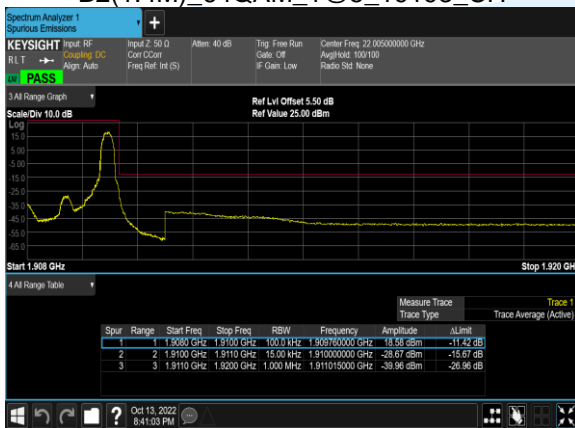
B2(1.4M)_64QAM_1@0_18607_CH



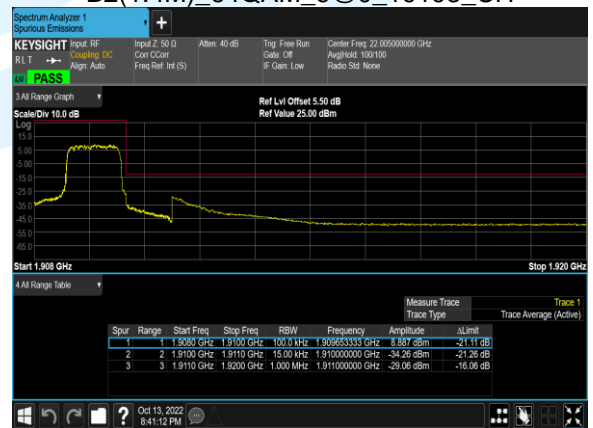
B2(1.4M)_64QAM_6@0_18607_CH



B2(1.4M)_64QAM_1@5_19193_CH



B2(1.4M)_64QAM_6@0_19193_CH



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UTTR-RF-FCC4G-V1.1

A.2 LTE BAND 4

Peak to Average Ratio

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
4	20.0	20050	1720.0	QPSK	100@0	5.46	13	PASS
4	20.0	20050	1720.0	16QAM	100@0	6.16	13	PASS
4	20.0	20050	1720.0	64QAM	100@0	6.17	13	PASS
4	20.0	20175	1732.5	QPSK	100@0	5.41	13	PASS
4	20.0	20175	1732.5	16QAM	100@0	6.11	13	PASS
4	20.0	20175	1732.5	64QAM	100@0	6.13	13	PASS
4	20.0	20300	1745.0	QPSK	100@0	5.30	13	PASS
4	20.0	20300	1745.0	16QAM	100@0	6.05	13	PASS
4	20.0	20300	1745.0	64QAM	100@0	6.11	13	PASS

B4(20.0M)_QPSK_100@0_20050_CH



B4(20.0M)_16QAM_100@0_20050_CH



B4(20.0M)_QPSK_100@0_20175_CH



B4(20.0M)_16QAM_100@0_20175_CH



B4(20.0M)_QPSK_100@0_20300_CH



B4(20.0M)_16QAM_100@0_20300_CH



B4(20.0M)_64QAM_100@0_20050_CH



B4(20.0M)_64QAM_100@0_20175_CH



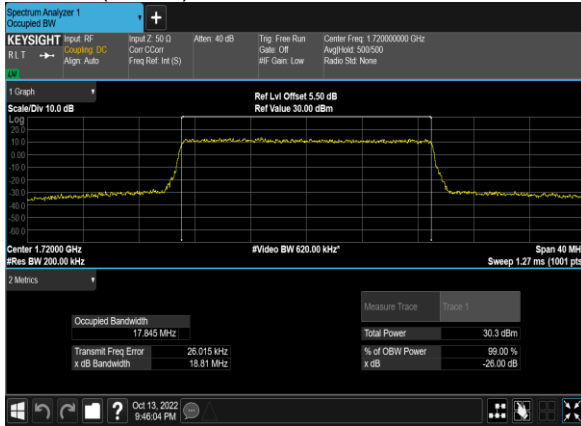
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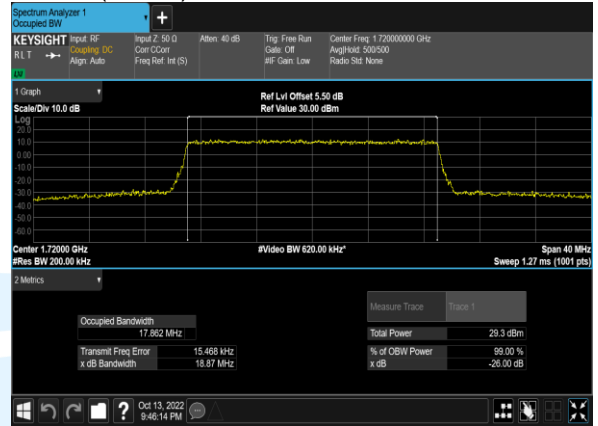
Occupied Bandwidth

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
4	20.0	20050	1720.0	QPSK	100@0	17.845	18.81
4	20.0	20050	1720.0	16QAM	100@0	17.862	18.87
4	20.0	20050	1720.0	64QAM	100@0	17.845	18.81
4	20.0	20175	1732.5	QPSK	100@0	17.882	19.06
4	20.0	20175	1732.5	16QAM	100@0	17.912	18.90
4	20.0	20175	1732.5	64QAM	100@0	17.868	19.00
4	20.0	20300	1745.0	QPSK	100@0	17.857	18.91
4	20.0	20300	1745.0	16QAM	100@0	17.828	18.86
4	20.0	20300	1745.0	64QAM	100@0	17.868	18.85
4	15.0	20025	1717.5	QPSK	75@0	13.408	14.33
4	15.0	20025	1717.5	16QAM	75@0	13.410	14.32
4	15.0	20025	1717.5	64QAM	75@0	14.330	30.00
4	15.0	20175	1732.5	QPSK	75@0	13.420	14.41
4	15.0	20175	1732.5	16QAM	75@0	13.406	14.29
4	15.0	20175	1732.5	64QAM	75@0	13.423	14.27
4	15.0	20325	1747.5	QPSK	75@0	13.392	14.22
4	15.0	20325	1747.5	16QAM	75@0	13.400	14.32
4	15.0	20325	1747.5	64QAM	75@0	13.399	14.25
4	10.0	20000	1715.0	QPSK	50@0	8.9455	9.545
4	10.0	20000	1715.0	16QAM	50@0	8.9309	9.517
4	10.0	20000	1715.0	64QAM	50@0	8.9294	9.446
4	10.0	20175	1732.5	QPSK	50@0	8.9469	9.567
4	10.0	20175	1732.5	16QAM	50@0	8.9468	9.518
4	10.0	20175	1732.5	64QAM	50@0	8.9496	9.593
4	10.0	20350	1750.0	QPSK	50@0	8.9347	9.527
4	10.0	20350	1750.0	16QAM	50@0	8.9302	9.448
4	10.0	20350	1750.0	64QAM	50@0	8.9407	9.481
4	5.0	19975	1712.5	QPSK	25@0	4.4597	4.819
4	5.0	19975	1712.5	16QAM	25@0	4.4607	4.830
4	5.0	19975	1712.5	64QAM	25@0	4.4607	4.867
4	5.0	20175	1732.5	QPSK	25@0	4.4681	4.830
4	5.0	20175	1732.5	16QAM	25@0	4.4652	4.785
4	5.0	20175	1732.5	64QAM	25@0	4.4659	4.774
4	5.0	20375	1752.5	QPSK	25@0	4.4739	4.822
4	5.0	20375	1752.5	16QAM	25@0	4.4638	4.853
4	5.0	20375	1752.5	64QAM	25@0	4.4708	4.836
4	3.0	19965	1711.5	QPSK	15@0	2.6787	2.852
4	3.0	19965	1711.5	16QAM	15@0	2.6720	2.838
4	3.0	19965	1711.5	64QAM	15@0	2.6719	2.849
4	3.0	20175	1732.5	QPSK	15@0	2.6775	2.852
4	3.0	20175	1732.5	16QAM	15@0	2.6725	2.851
4	3.0	20175	1732.5	64QAM	15@0	2.6685	2.854
4	3.0	20385	1753.5	QPSK	15@0	2.6767	2.852
4	3.0	20385	1753.5	16QAM	15@0	2.6759	2.850
4	3.0	20385	1753.5	64QAM	15@0	2.6757	2.840
4	1.4	19957	1710.7	QPSK	6@0	1.0779	1.250
4	1.4	19957	1710.7	16QAM	6@0	1.0783	1.236
4	1.4	19957	1710.7	64QAM	6@0	1.0778	1.238
4	1.4	20175	1732.5	QPSK	6@0	1.0785	1.244
4	1.4	20175	1732.5	16QAM	6@0	1.0796	1.256
4	1.4	20175	1732.5	64QAM	6@0	1.0787	1.257
4	1.4	20393	1754.3	QPSK	6@0	1.0771	1.241
4	1.4	20393	1754.3	16QAM	6@0	1.0747	1.212
4	1.4	20393	1754.3	64QAM	6@0	1.0749	1.209

B4(20.0M)_QPSK_100@0_20050_CH



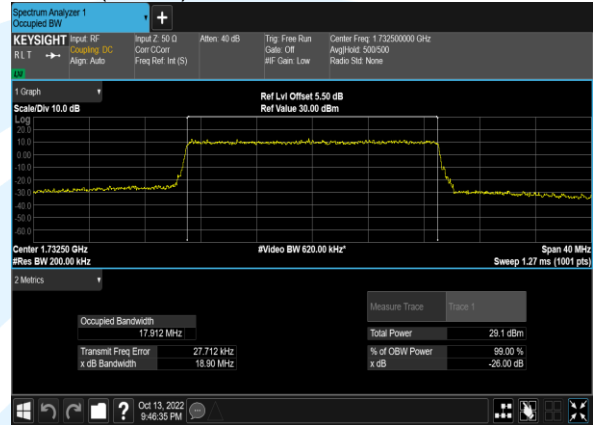
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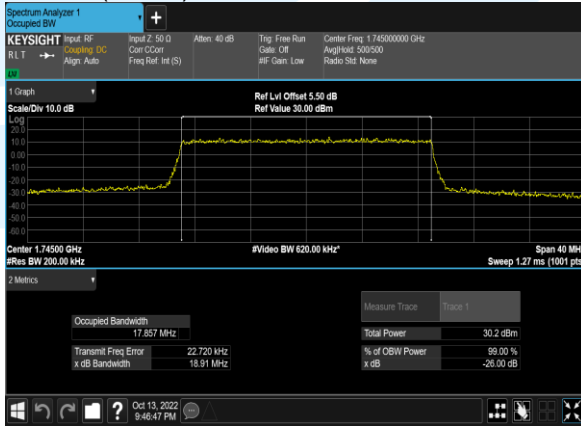
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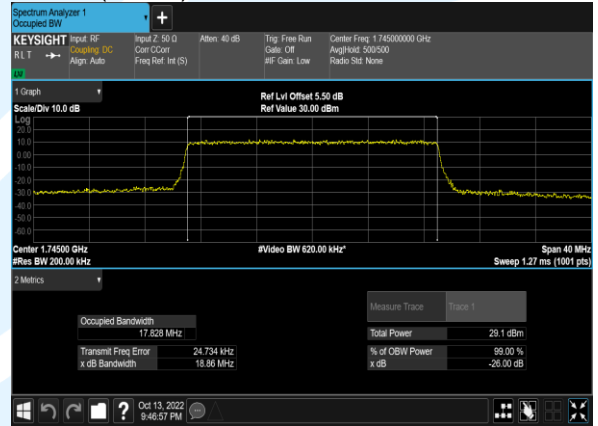
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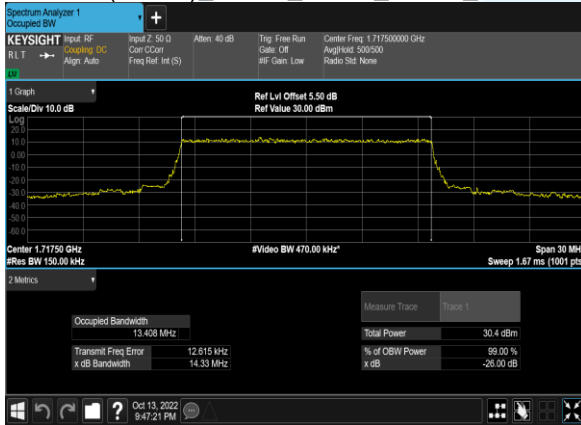
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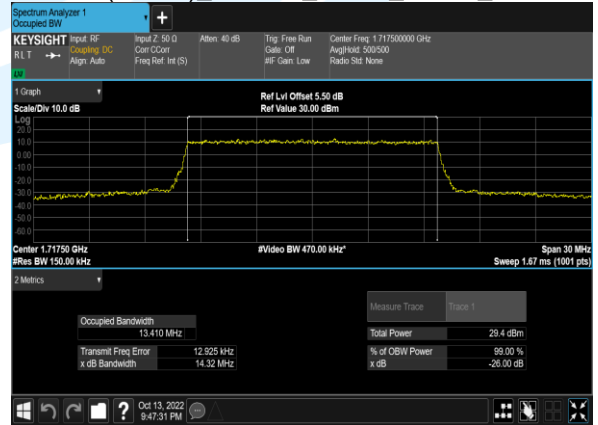
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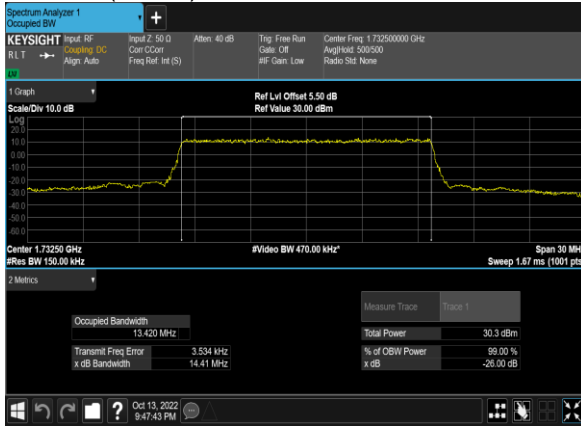
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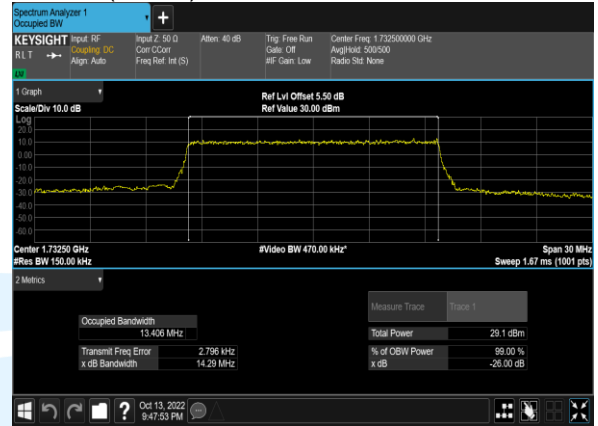
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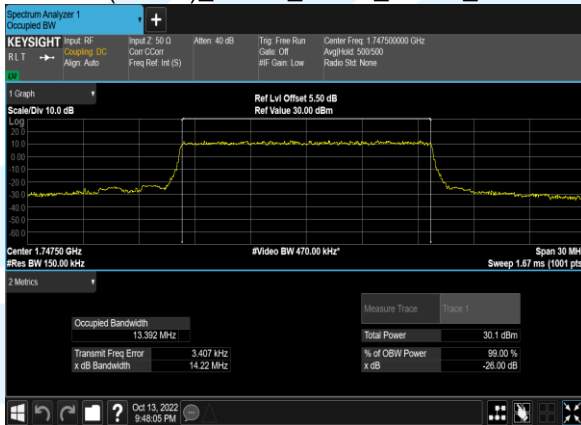
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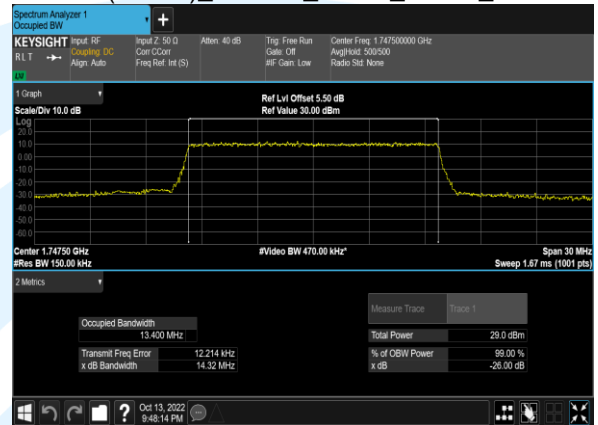
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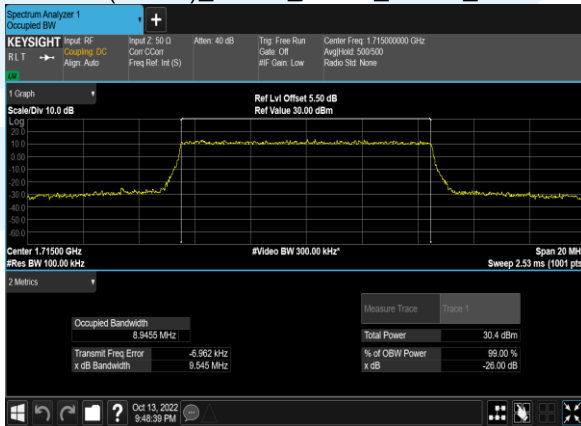
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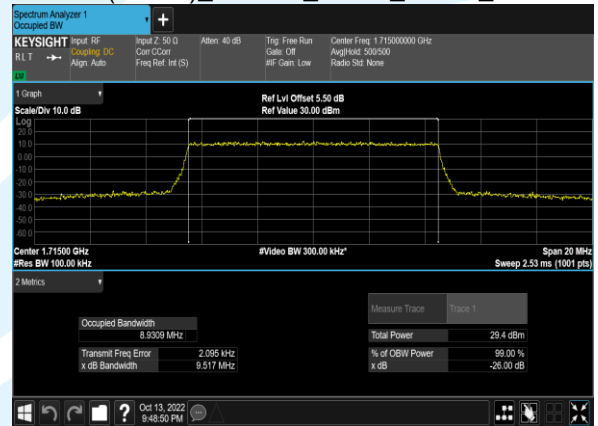
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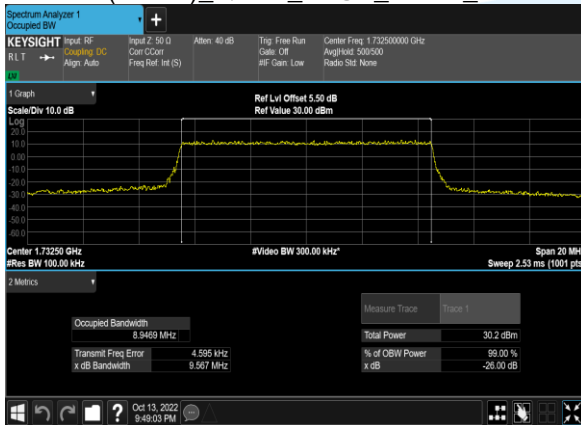
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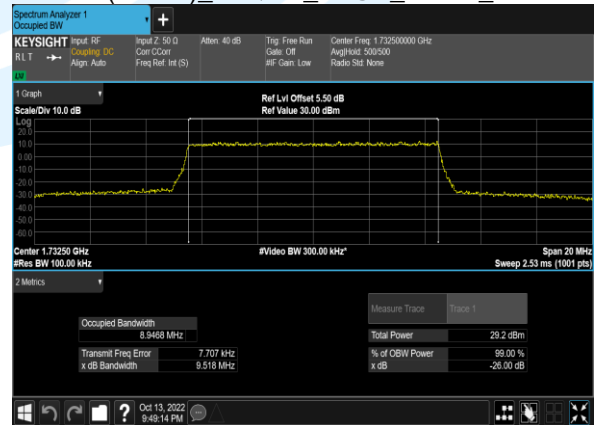
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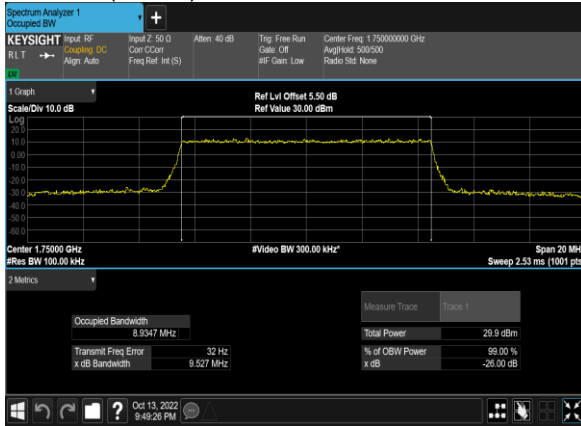
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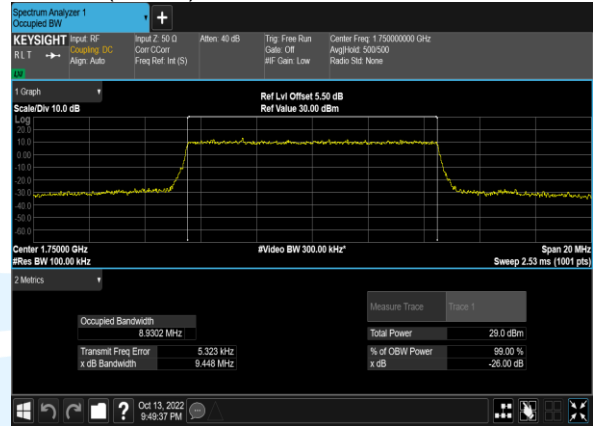
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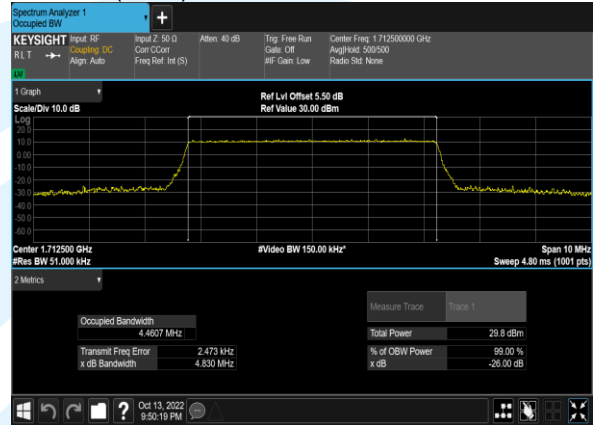
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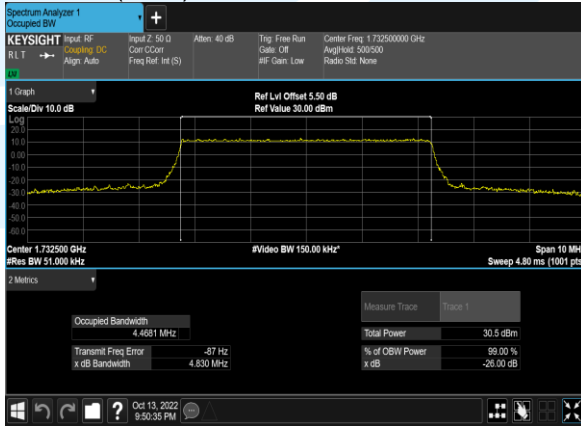
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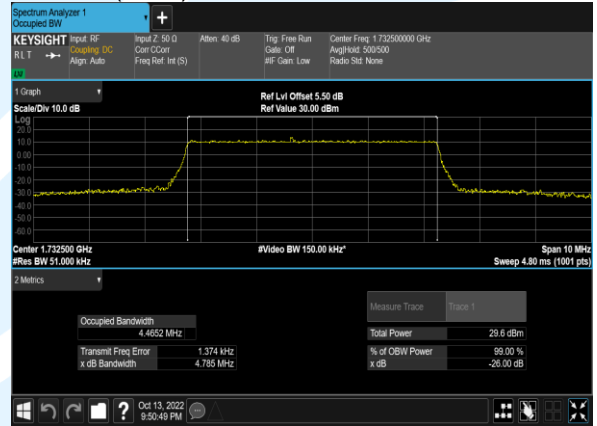
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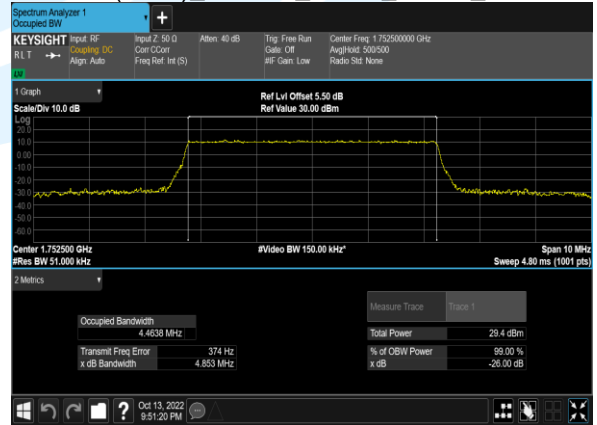
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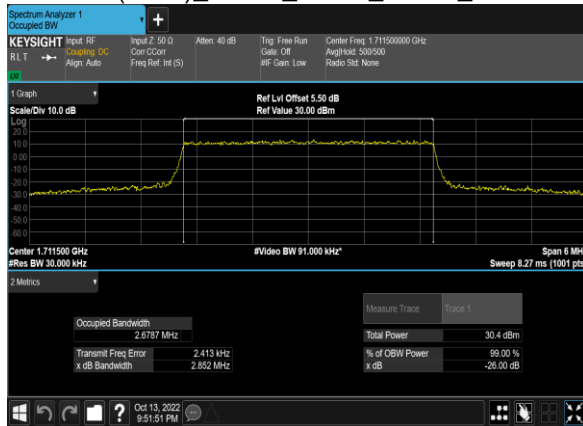
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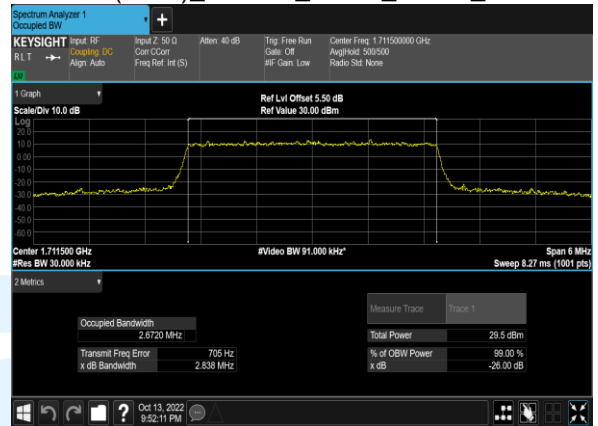
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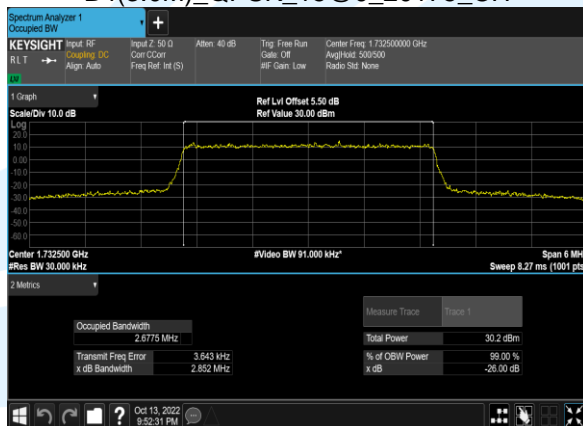
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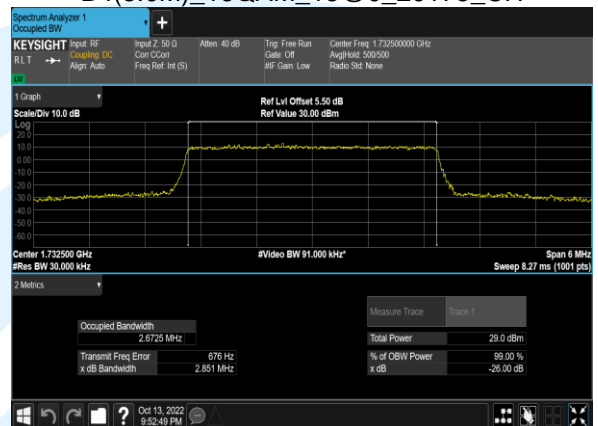
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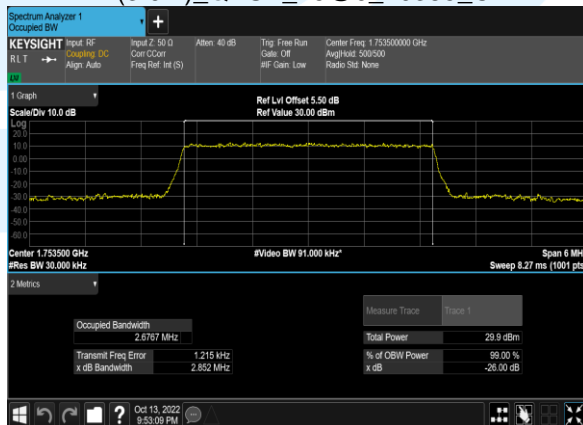
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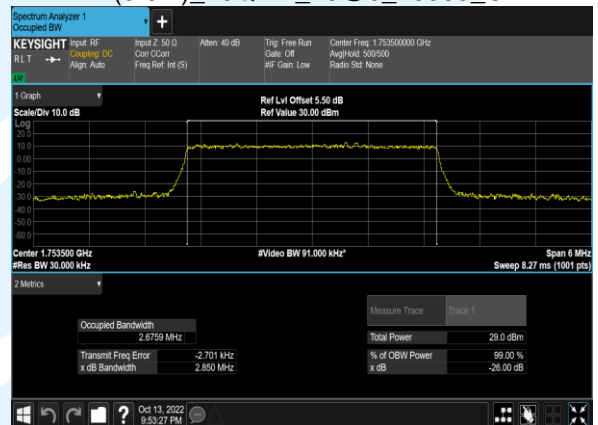
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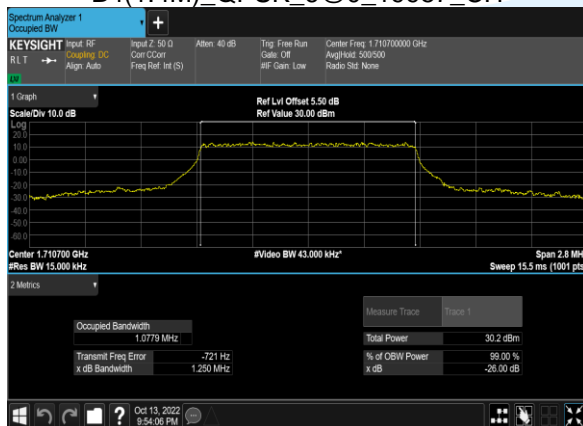
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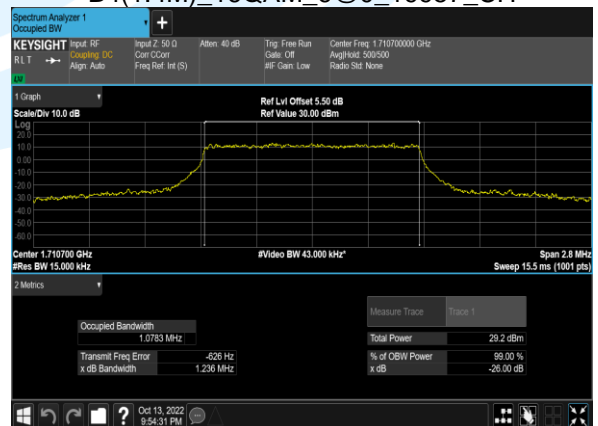
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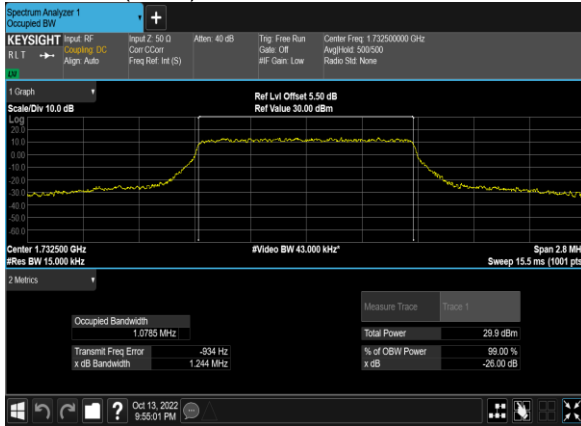
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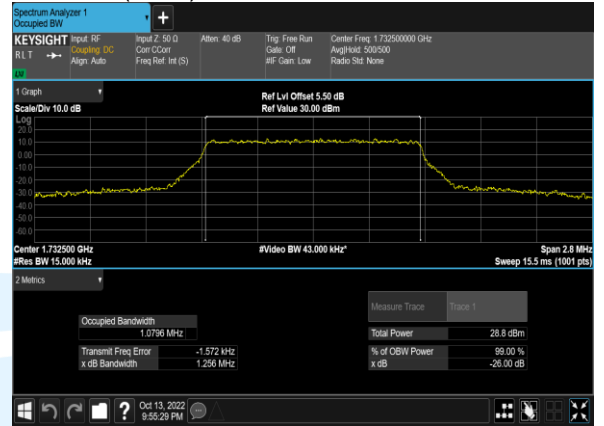
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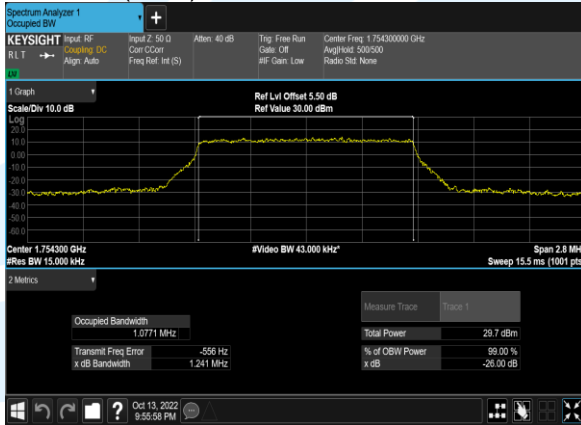
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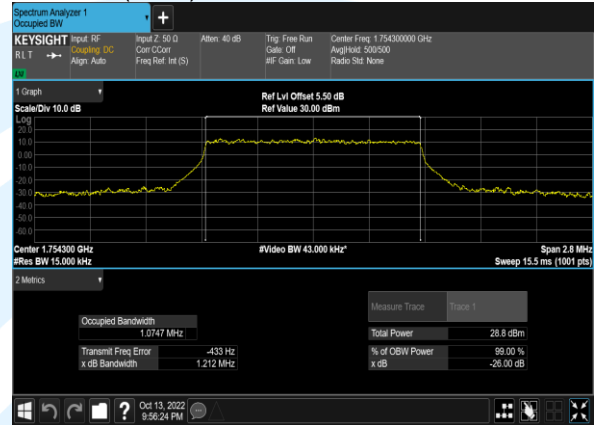
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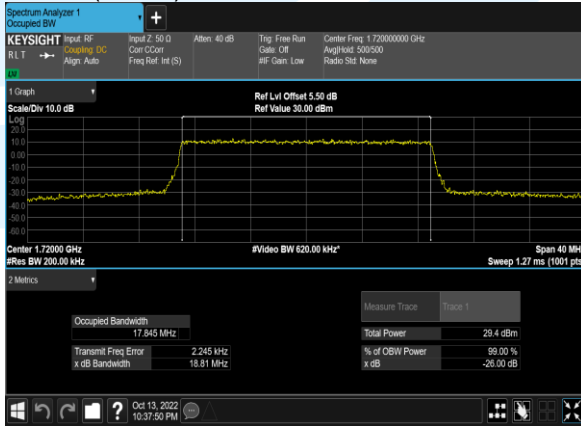
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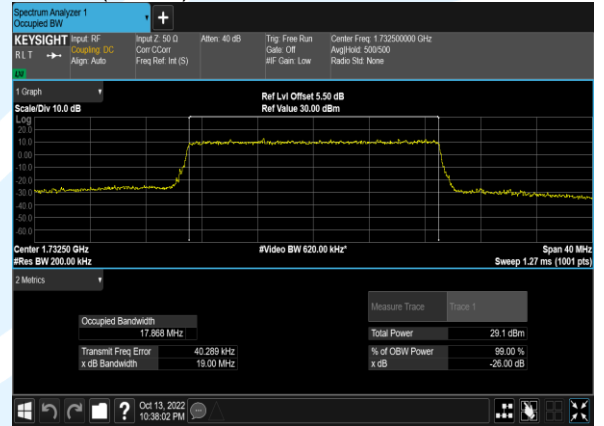
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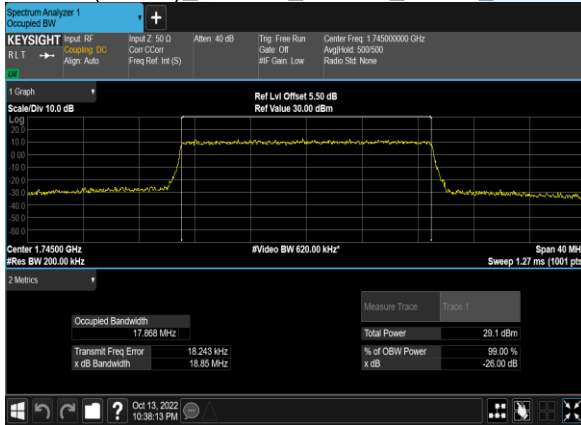
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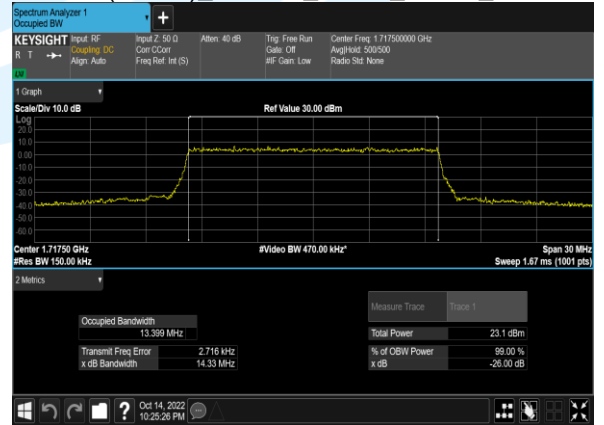
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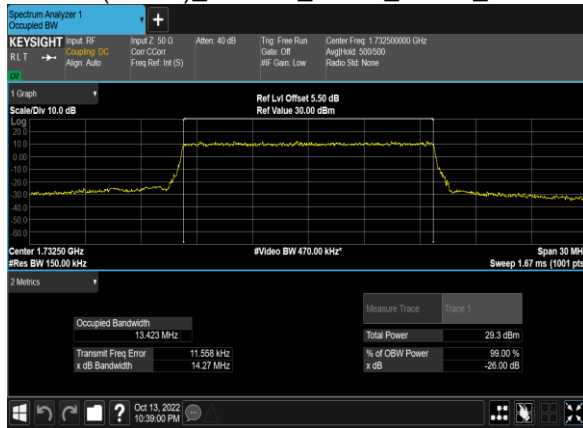
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B4(15.0M)_64QAM_75@0_20025_CH



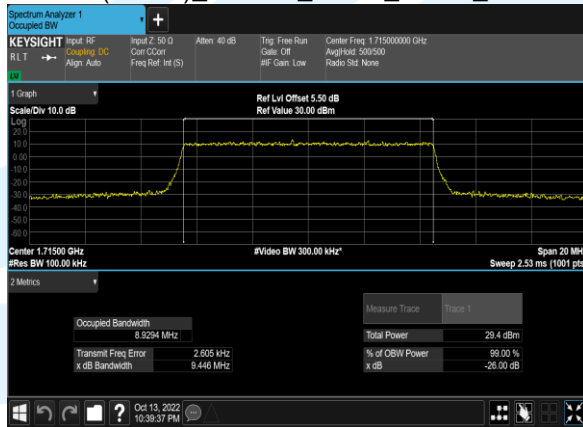
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B4(15.0M)_64QAM_75@0_20325_CH



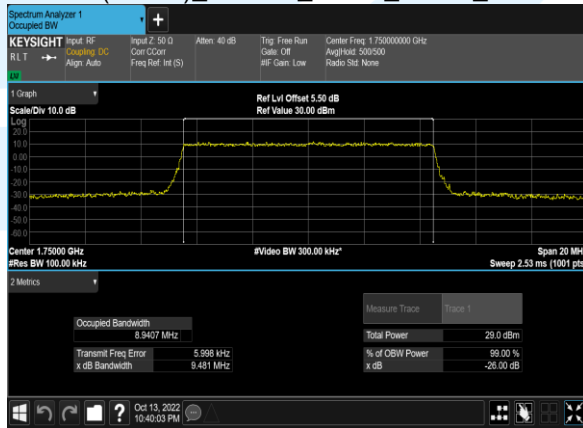
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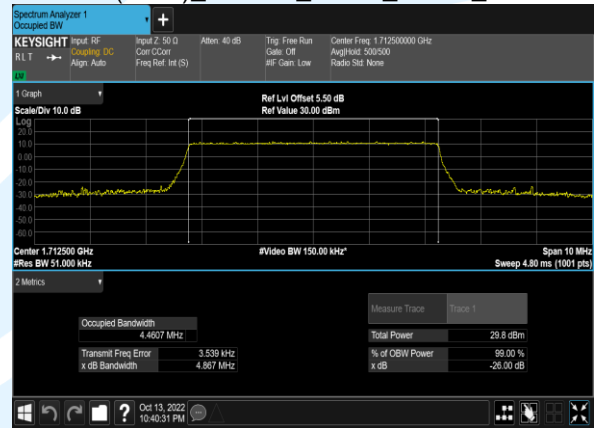
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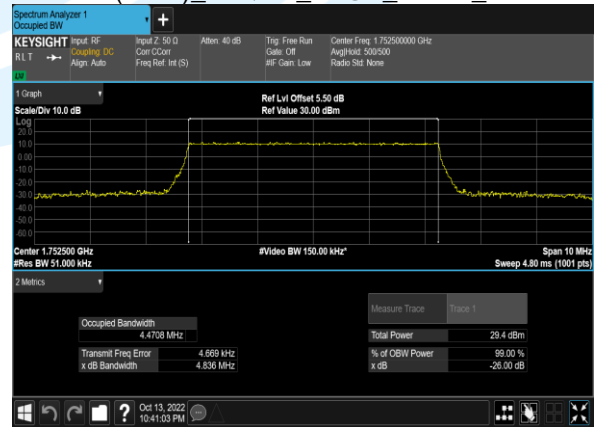
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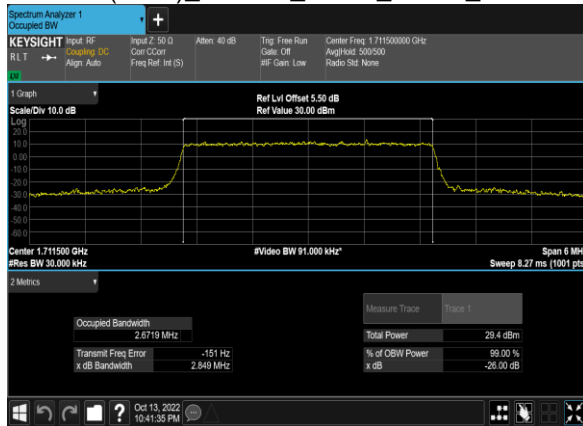
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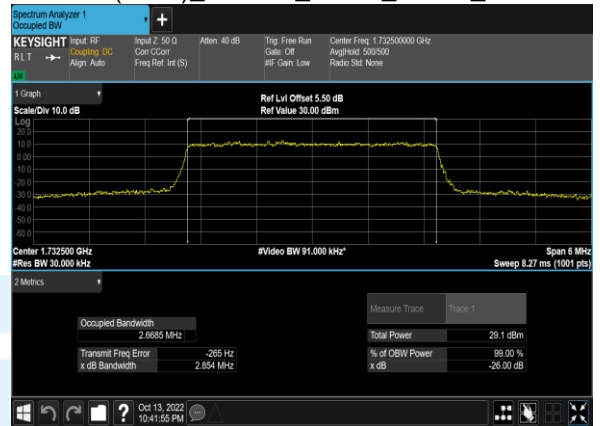
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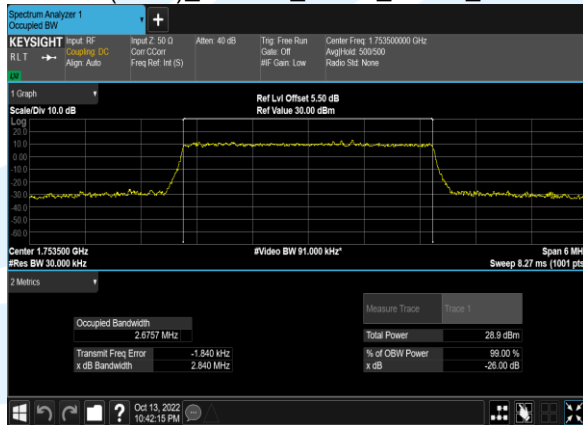
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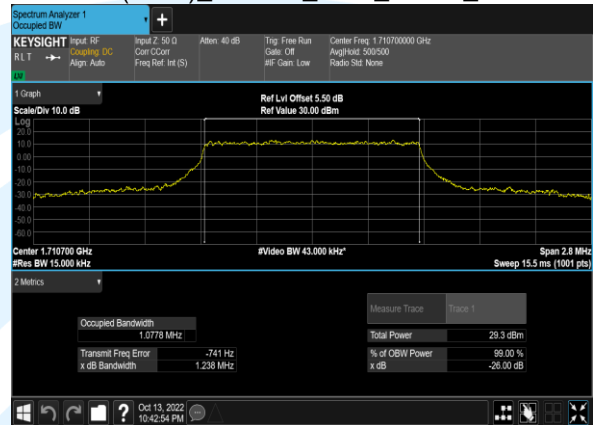
B4(3.0M)_64QAM_15@0_20175_CH



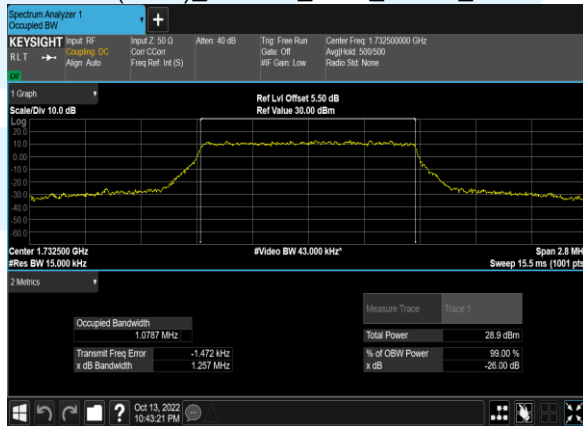
B4(3.0M)_64QAM_15@0_20385_CH



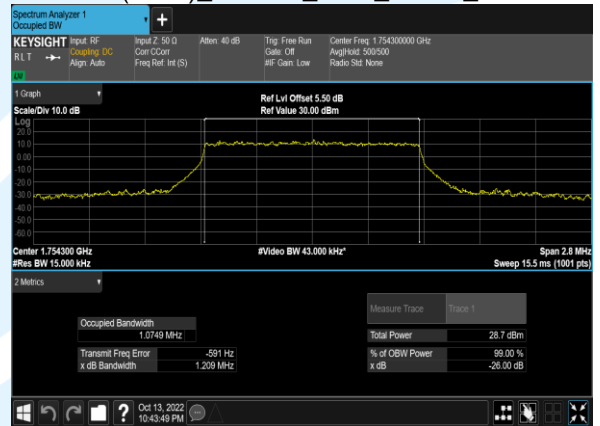
B4(1.4M)_64QAM_6@0_19957_CH



B4(1.4M)_64QAM_6@0_20175_CH



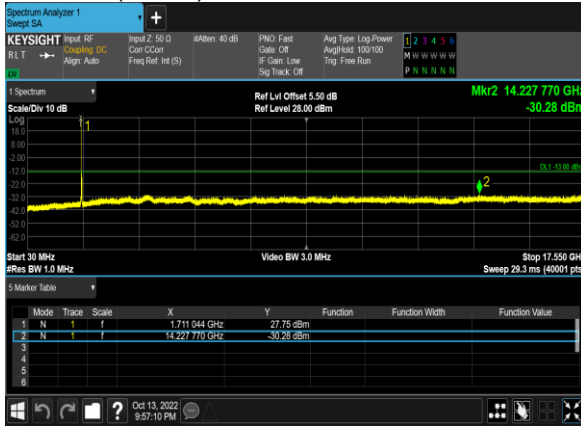
B4(1.4M)_64QAM_6@0_20393_CH



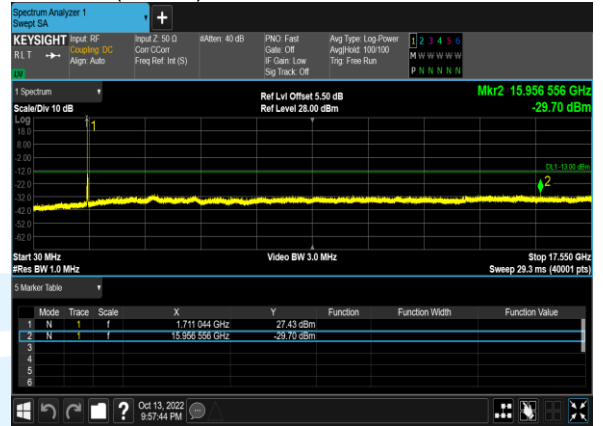
Conducted Spurious Emissions

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dBm)	Limit (dBm)	Verdict
4	20.0	20050	1720.0	QPSK	1@0	-30.28	-13	PASS
4	20.0	20050	1720.0	16QAM	1@0	-29.7	-13	PASS
4	20.0	20050	1720.0	64QAM	1@0	-29.84	-13	PASS
4	20.0	20175	1732.5	QPSK	1@0	-29.53	-13	PASS
4	20.0	20175	1732.5	16QAM	1@0	-30.44	-13	PASS
4	20.0	20175	1732.5	64QAM	1@0	-30.41	-13	PASS
4	20.0	20300	1745.0	QPSK	1@0	-30.31	-13	PASS
4	20.0	20300	1745.0	16QAM	1@0	-29.69	-13	PASS
4	20.0	20300	1745.0	64QAM	1@0	-30.31	-13	PASS
4	15.0	20025	1717.5	QPSK	1@0	-23.59	-13	PASS
4	15.0	20025	1717.5	16QAM	1@0	-30.17	-13	PASS
4	15.0	20025	1717.5	64QAM	1@0	-30.25	-13	PASS
4	15.0	20175	1732.5	QPSK	1@0	-29.29	-13	PASS
4	15.0	20175	1732.5	16QAM	1@0	-29.61	-13	PASS
4	15.0	20175	1732.5	64QAM	1@0	-29.86	-13	PASS
4	15.0	20325	1747.5	QPSK	1@0	-26.99	-13	PASS
4	15.0	20325	1747.5	16QAM	1@0	-29.49	-13	PASS
4	15.0	20325	1747.5	64QAM	1@0	-25.36	-13	PASS
4	10.0	20000	1715.0	QPSK	1@0	-30.4	-13	PASS
4	10.0	20000	1715.0	16QAM	1@0	-29.93	-13	PASS
4	10.0	20000	1715.0	64QAM	1@0	-29.49	-13	PASS
4	10.0	20175	1732.5	QPSK	1@0	-30.19	-13	PASS
4	10.0	20175	1732.5	16QAM	1@0	-29.77	-13	PASS
4	10.0	20175	1732.5	64QAM	1@0	-30.12	-13	PASS
4	10.0	20350	1750.0	QPSK	1@0	-29.82	-13	PASS
4	10.0	20350	1750.0	16QAM	1@0	-29.48	-13	PASS
4	10.0	20350	1750.0	64QAM	1@0	-30.1	-13	PASS
4	5.0	19975	1712.5	QPSK	1@0	-29.83	-13	PASS
4	5.0	19975	1712.5	16QAM	1@0	-29.72	-13	PASS
4	5.0	19975	1712.5	64QAM	1@0	-29.33	-13	PASS
4	5.0	20175	1732.5	QPSK	1@0	-29.53	-13	PASS
4	5.0	20175	1732.5	16QAM	1@0	-29.84	-13	PASS
4	5.0	20175	1732.5	64QAM	1@0	-29.8	-13	PASS
4	5.0	20375	1752.5	QPSK	1@0	-30.19	-13	PASS
4	5.0	20375	1752.5	16QAM	1@0	-29.29	-13	PASS
4	5.0	20375	1752.5	64QAM	1@0	-30.22	-13	PASS
4	3.0	19965	1711.5	QPSK	1@0	-29.71	-13	PASS
4	3.0	19965	1711.5	16QAM	1@0	-29.22	-13	PASS
4	3.0	19965	1711.5	64QAM	1@0	-29.57	-13	PASS
4	3.0	20175	1732.5	QPSK	1@0	-30.55	-13	PASS
4	3.0	20175	1732.5	16QAM	1@0	-29.84	-13	PASS
4	3.0	20175	1732.5	64QAM	1@0	-29.7	-13	PASS
4	3.0	20385	1753.5	QPSK	1@0	-29.96	-13	PASS
4	3.0	20385	1753.5	16QAM	1@0	-29.63	-13	PASS
4	3.0	20385	1753.5	64QAM	1@0	-30.2	-13	PASS
4	1.4	19957	1710.7	QPSK	1@0	-29.96	-13	PASS
4	1.4	19957	1710.7	16QAM	1@0	-30.25	-13	PASS
4	1.4	19957	1710.7	64QAM	1@0	-30.48	-13	PASS
4	1.4	20175	1732.5	QPSK	1@0	-29.23	-13	PASS
4	1.4	20175	1732.5	16QAM	1@0	-29.98	-13	PASS
4	1.4	20175	1732.5	64QAM	1@0	-28.99	-13	PASS
4	1.4	20393	1754.3	QPSK	1@0	-30.22	-13	PASS
4	1.4	20393	1754.3	16QAM	1@0	-29.76	-13	PASS
4	1.4	20393	1754.3	64QAM	1@0	-29.37	-13	PASS

B4(20.0M)_QPSK_1@0_20050_CH



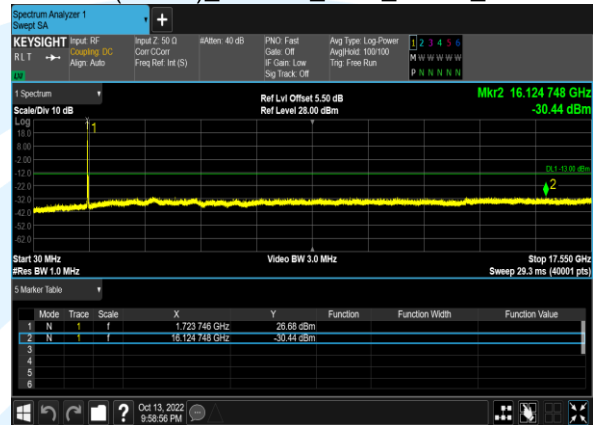
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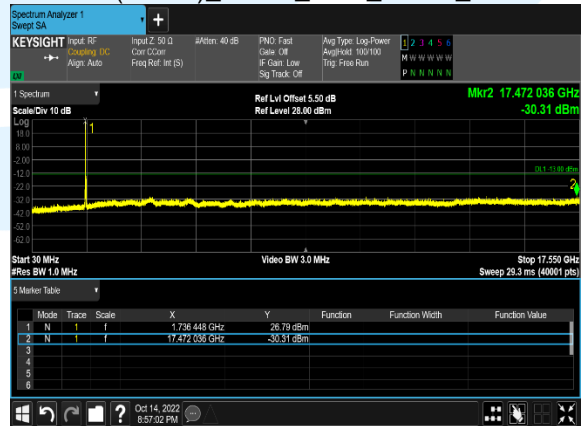
B4(20.0M)_QPSK_1@0_20175_CH



B4(20.0M)_16QAM_1@0_20175_CH



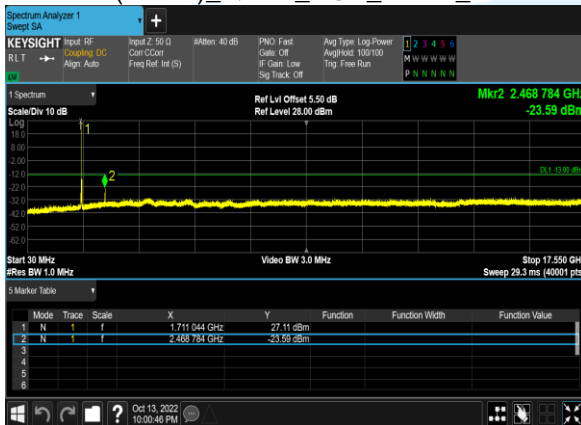
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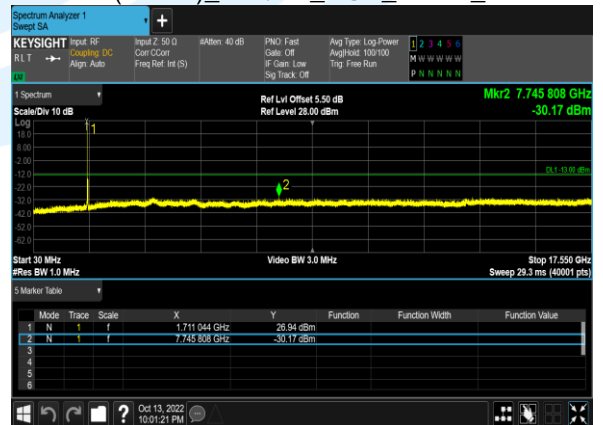
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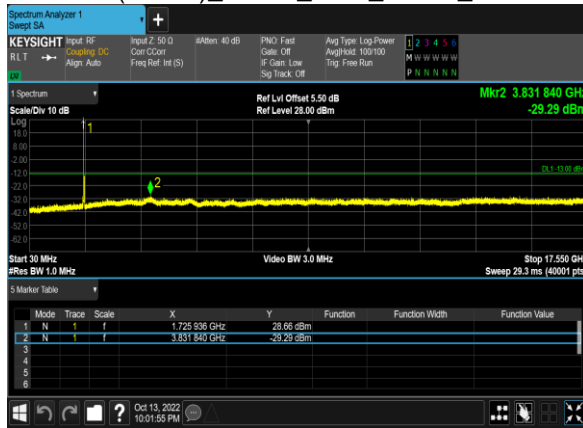
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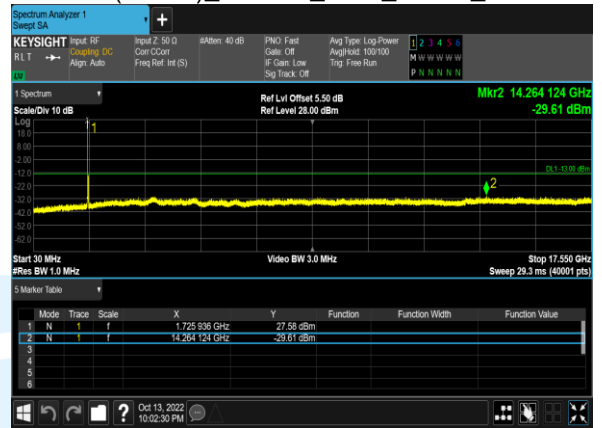
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B4(15.0M)_QPSK_1@0_20175_CH



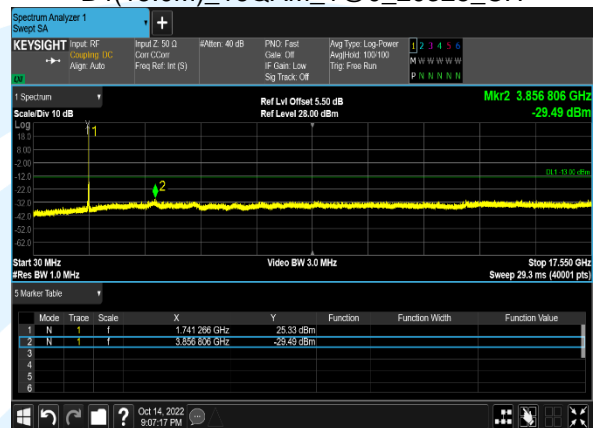
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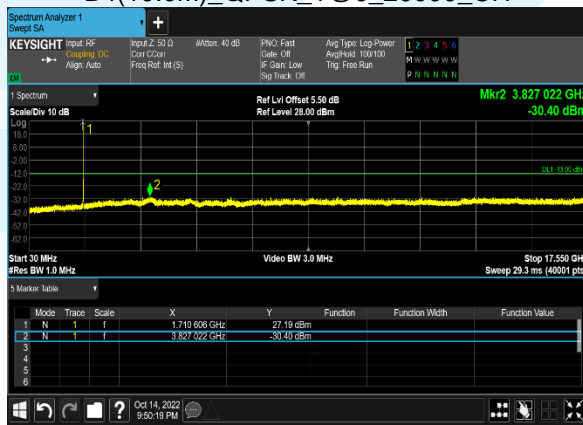
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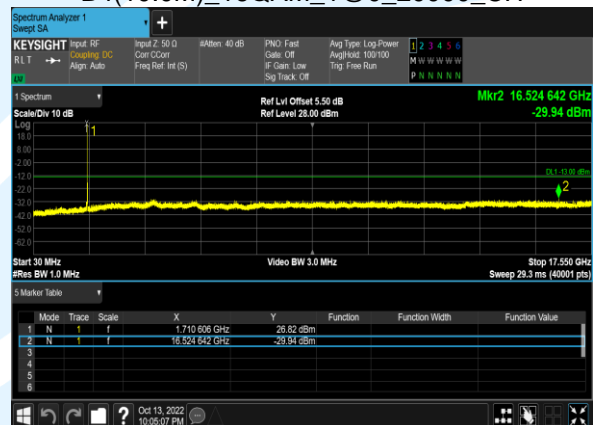
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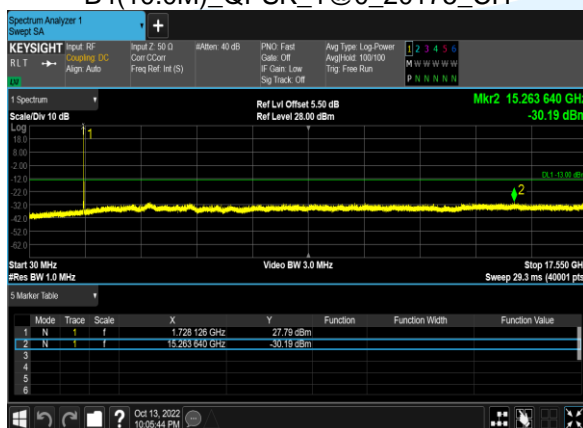
B4(10.0M)_QPSK_1@0_20000_CH



B4(10.0M)_16QAM_1@0_20000_CH



B4(10.0M)_QPSK_1@0_20175_CH



B4(10.0M)_16QAM_1@0_20175_CH

