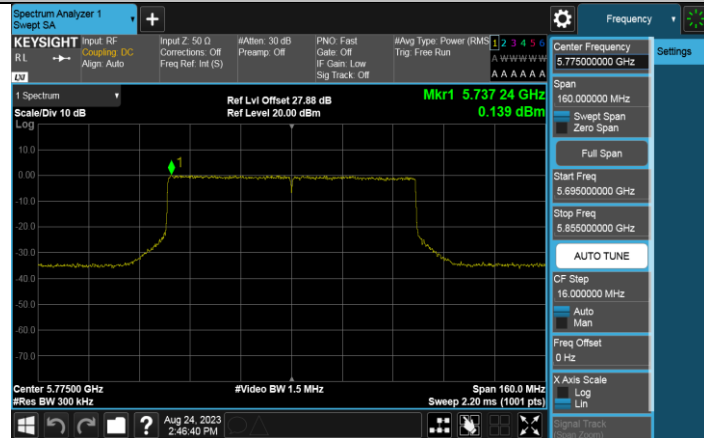11BE80MIMO_Ant2_5690_UNII-3

11BE80MIMO_Ant1_5775

11BE80MIMO_Ant2_5775

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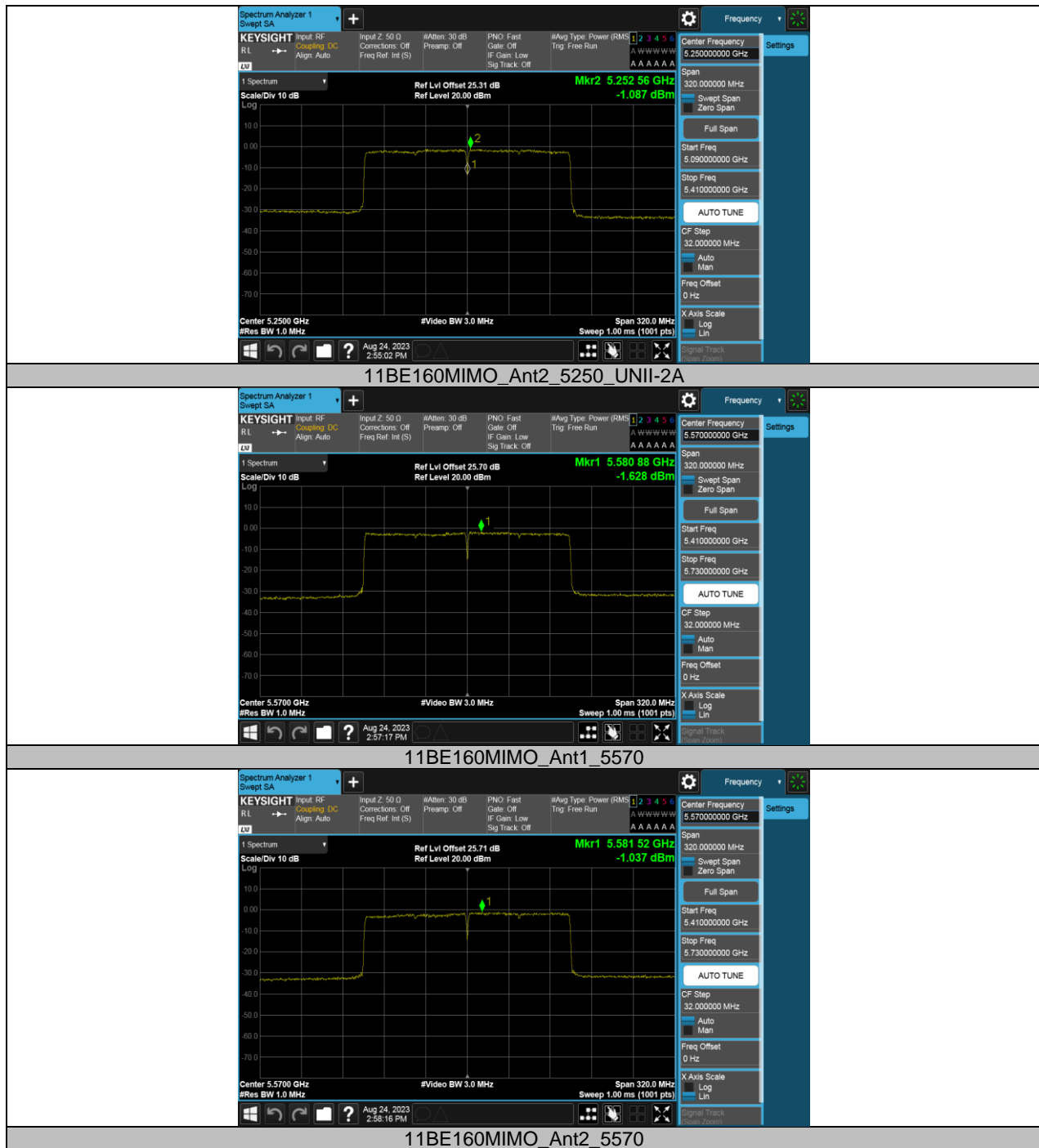*This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.*

11BE160MIMO_Ant1_5250_UNII-1

11BE160MIMO_Ant2_5250_UNII-1

11BE160MIMO_Ant1_5250_UNII-2A

11BE160MIMO_Ant2_5250_UNII-2A

11BE160MIMO_Ant1_5570

11BE160MIMO_Ant2_5570

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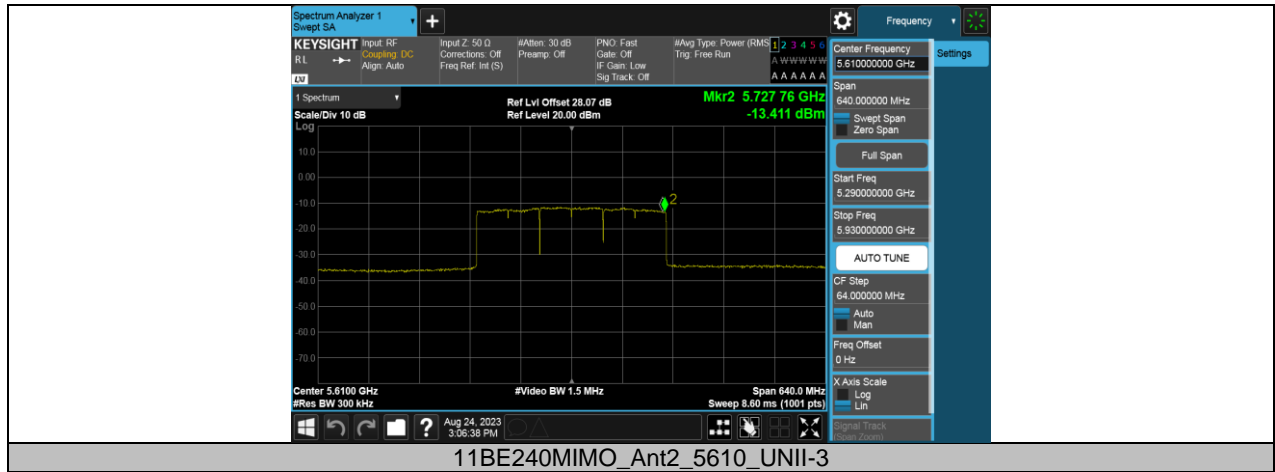11BE240MIMO_Ant1_5610_UNII-2C

11BE240MIMO_Ant2_5610_UNII-2C

11BE240MIMO_Ant1_5610_UNII-3

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11BE240MIMO_Ant2_5610_UNII-3

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11.6. APPENDIX F: FREQUENCY STABILITY
11.6.1. Test Result

Frequency Error vs. Voltage									
802.11a: 5200 MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
TN	VL	5200.0214	4.11	5200.0110	2.11	5200.0101	1.93	5199.9849	-2.91
TN	VN	5200.0134	2.58	5200.0119	2.30	5200.0209	4.03	5200.0044	0.84
TN	VH	5200.0180	3.46	5200.0027	0.51	5200.0197	3.78	5199.9831	-3.25
Frequency Error vs. Temperature									
802.11a: 5200 MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
40	VN	5200.0058	1.11	5200.0025	0.48	5199.9751	-4.79	5199.9888	-2.15
30	VN	5199.9901	-1.91	5199.9822	-3.43	5200.0237	4.57	5199.9757	-4.68
20	VN	5200.0052	0.99	5199.9995	-0.10	5200.0068	1.30	5200.0088	1.70
10	VN	5200.0017	0.33	5200.0222	4.27	5200.0153	2.95	5200.0054	1.05
0	VN	5200.0128	2.46	5199.9934	-1.28	5200.0114	2.18	5200.0188	3.61

Note:
1. All antennas, test modes and test channels have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 10 TEST ENVIRONMENT.

11.7. APPENDIX G: DUTY CYCLE
11.7.1. Test Result

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11A-CDD	3.02	3.09	0.9773	97.73	0.10	0.33	1
11AC20MIMO	2.81	2.89	0.9723	97.23	0.12	0.36	1
11AC40MIMO	1.37	1.45	0.9448	94.48	0.25	0.73	1
11AC80MIMO	1.89	2.01	0.9403	94.03	0.27	0.53	1
11AC160MIMO	1.89	2.07	0.9130	91.30	0.40	0.53	1
11BE20MIMO	2.53	2.62	0.9656	96.56	0.15	0.40	1
11BE40MIMO	3.77	3.88	0.9716	97.16	0.12	0.27	1
11BE80MIMO	3.82	3.90	0.9795	97.95	0.09	0.26	1
11BE160MIMO	3.89	3.98	0.9774	97.74	0.10	0.26	1
11BE240MIMO	3.99	4.17	0.9568	95.68	0.19	0.25	1

Note:
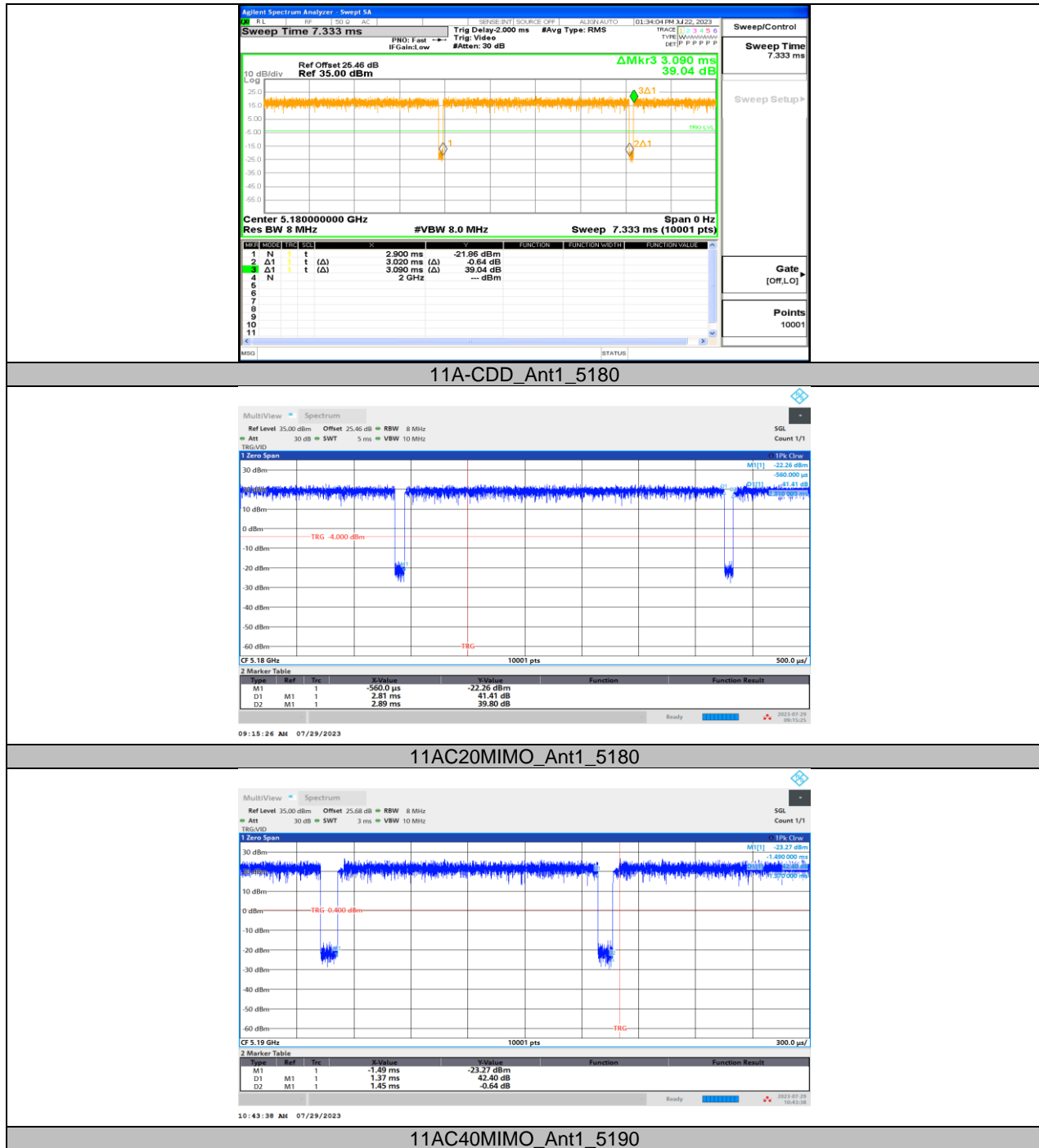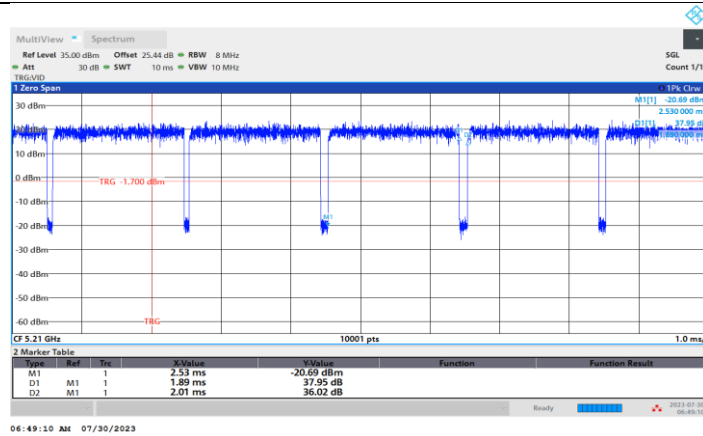Duty Cycle Correction Factor=10log (1/x).
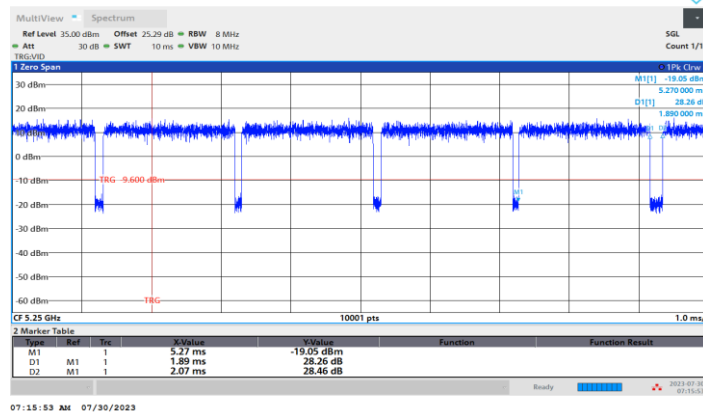Where: x is Duty Cycle (Linear)
Where: T is On Time
If that calculated VBW is not available on the analyzer then the next higher value should be used.
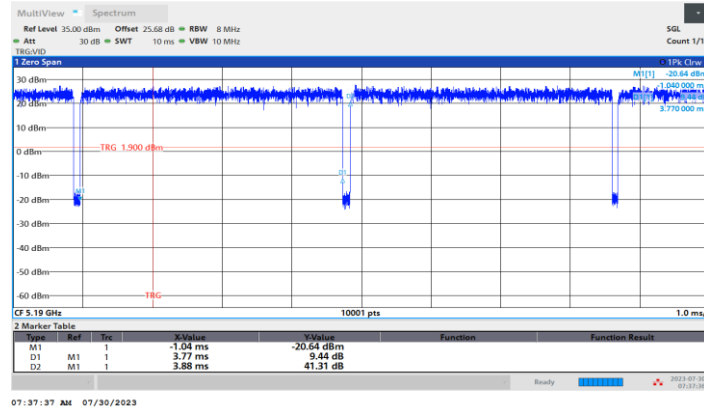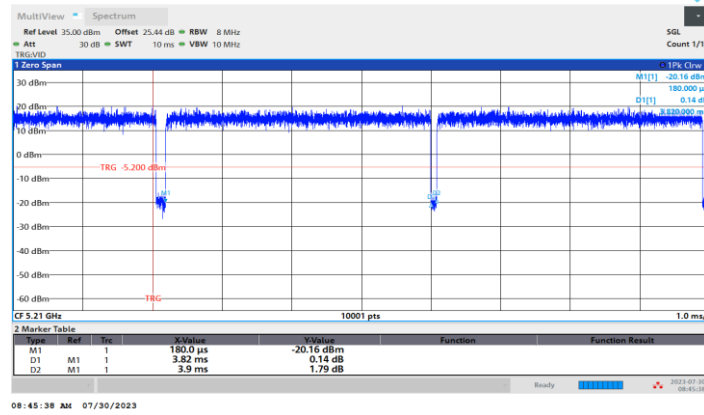
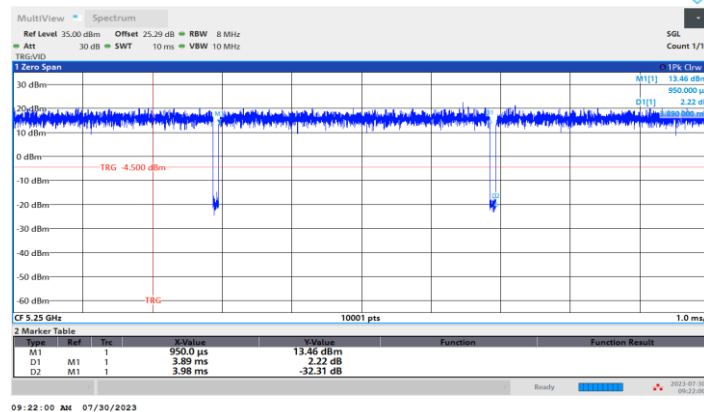## 11.7.2. Test Graphs

11A-CDD_Ant1_5180

11AC20MIMO_Ant1_5180

11AC40MIMO_Ant1_5190

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11AC80MIMO_Ant1_5210

11AC160MIMO_Ant1_5250

11BE20MIMO_Ant1_5180

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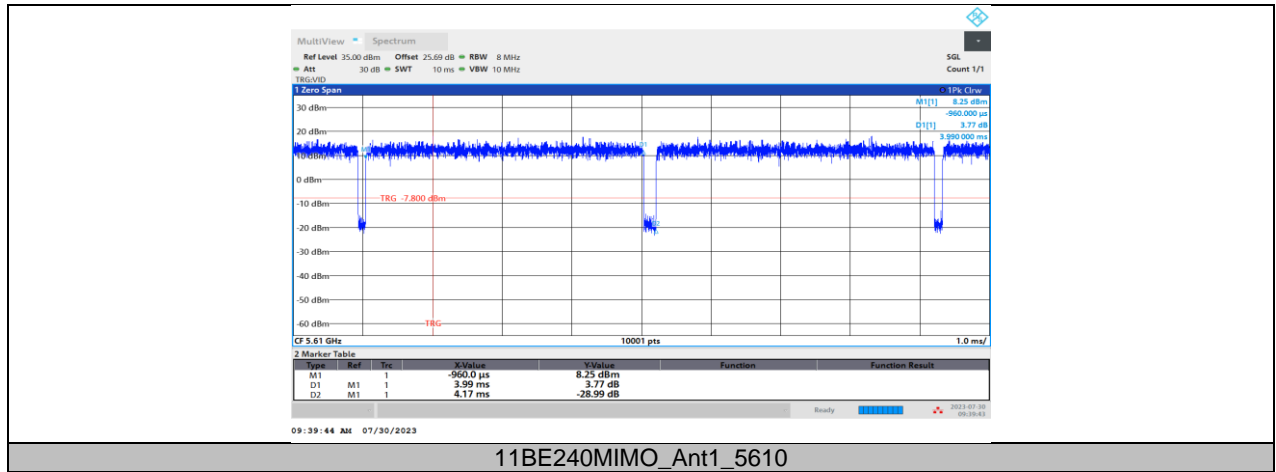
11BE40MIMO_Ant1_5190

11BE80MIMO_Ant1_5210

11BE160MIMO_Ant1_5250

11BE240MIMO_Ant1_5610

END OF REPORT