

RF Test Data for 6G Wi-Fi (Conducted Measurements)

General Description of EUT	
EUT Name:	AP5811SA
Model:	AP5811SA
Sample ID:	HC-C-202503-0077-01-01
Test Standard:	FCC Part 15.407
Environmental Conditions	
Ambient Temperature:	25.5°C
Ambient Humidity:	46.2%RH
Test Power Supply:	DC 3.3V
Test Engineer:	Gold zhang
Note: For a more detailed features description, please refer to the report TBR-C-202503-0077-43	

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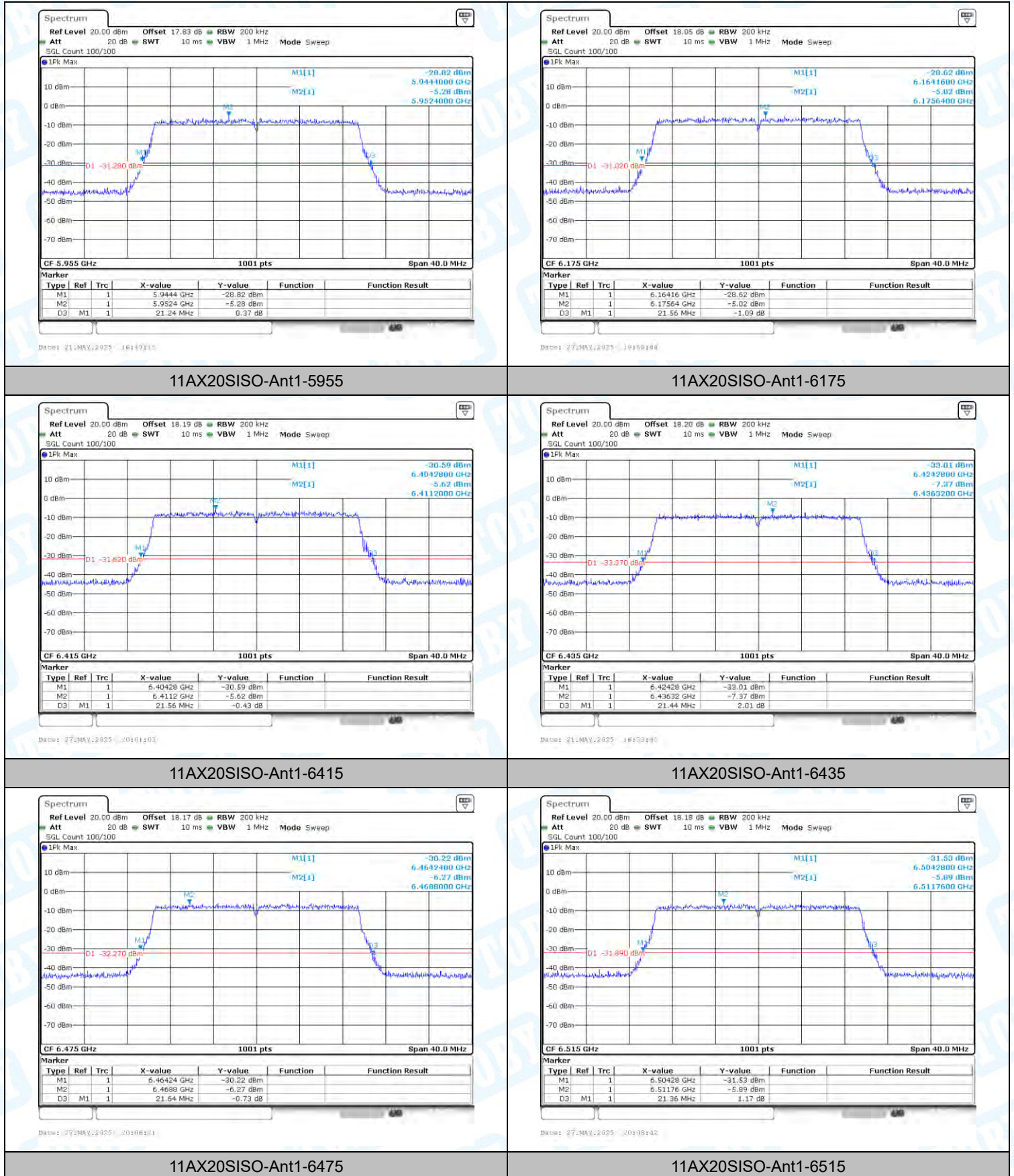
Appendix 1: Emission Bandwidth

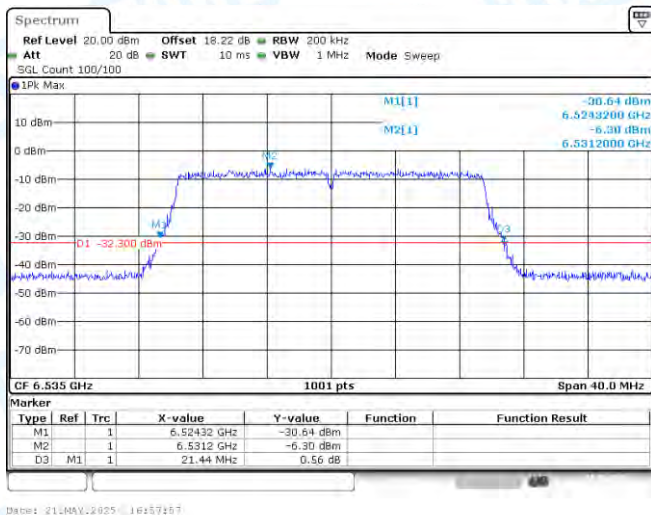
1.1 Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11AX20SISO	Ant1	5955	21.24	5944.40	5965.64	---	---
11AX20SISO	Ant1	6175	21.56	6164.16	6185.72	---	---
11AX20SISO	Ant1	6415	21.56	6404.28	6425.84	---	---
11AX20SISO	Ant1	6435	21.44	6424.28	6445.72	---	---
11AX20SISO	Ant1	6475	21.64	6464.24	6485.88	---	---
11AX20SISO	Ant1	6515	21.36	6504.28	6525.64	---	---
11AX20SISO	Ant1	6535	21.44	6524.32	6545.76	---	---
11AX20SISO	Ant1	6695	21.32	6684.24	6705.56	---	---
11AX20SISO	Ant1	6855	21.40	6844.36	6865.76	---	---
11AX20SISO	Ant1	6875	21.32	6864.32	6885.64	---	---
11AX20SISO	Ant1	6895	21.52	6884.16	6905.68	---	---
11AX20SISO	Ant1	6995	21.44	6984.20	7005.64	---	---
11AX20SISO	Ant1	7115	21.60	7104.20	7125.80	---	---
11AX40SISO	Ant1	5965	40.08	5944.84	5984.92	---	---
11AX40SISO	Ant1	6165	40.16	6144.84	6185.00	---	---
11AX40SISO	Ant1	6405	40.56	6384.52	6425.08	---	---
11AX40SISO	Ant1	6445	40.00	6425.00	6465.00	---	---
11AX40SISO	Ant1	6485	40.24	6464.84	6505.08	---	---
11AX40SISO	Ant1	6525	39.92	6504.92	6544.84	---	---
11AX40SISO	Ant1	6565	40.00	6545.00	6585.00	---	---
11AX40SISO	Ant1	6685	40.16	6664.76	6704.92	---	---
11AX40SISO	Ant1	6845	40.08	6824.92	6865.00	---	---
11AX40SISO	Ant1	6885	40.08	6864.84	6904.92	---	---
11AX40SISO	Ant1	6925	40.08	6904.92	6945.00	---	---
11AX40SISO	Ant1	6965	40.32	6944.76	6985.08	---	---
11AX40SISO	Ant1	7085	40.08	7064.92	7105.00	---	---
11AX80SISO	Ant1	5985	83.84	5943.24	6027.08	---	---
11AX80SISO	Ant1	6145	84.48	6102.60	6187.08	---	---
11AX80SISO	Ant1	6385	84.00	6342.92	6426.92	---	---
11AX80SISO	Ant1	6465	84.32	6422.60	6506.92	---	---
11AX80SISO	Ant1	6545	84.00	6502.92	6586.92	---	---
11AX80SISO	Ant1	6625	84.64	6582.60	6667.24	---	---
11AX80SISO	Ant1	6705	84.64	6662.28	6746.92	---	---
11AX80SISO	Ant1	6785	84.48	6742.76	6827.24	---	---
11AX80SISO	Ant1	6865	84.80	6822.44	6907.24	---	---
11AX80SISO	Ant1	6945	84.00	6902.76	6986.76	---	---
11AX80SISO	Ant1	7025	84.80	6982.12	7066.92	---	---

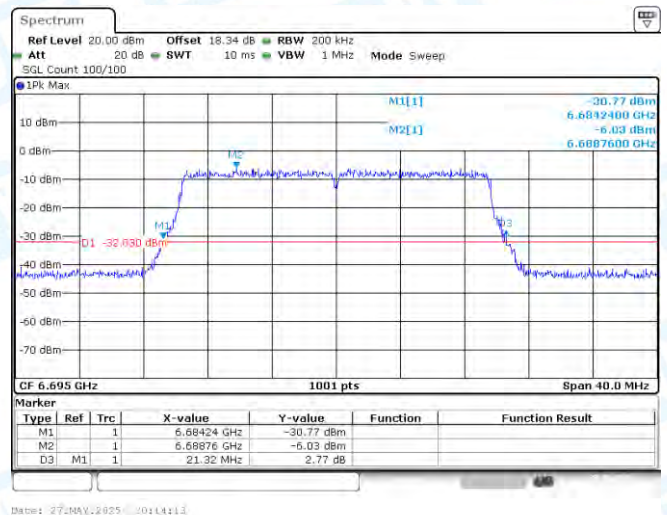
Note: RF Conducted test Offset= cable loss+ Attenuator(10dB).

1.2 Test Graphs

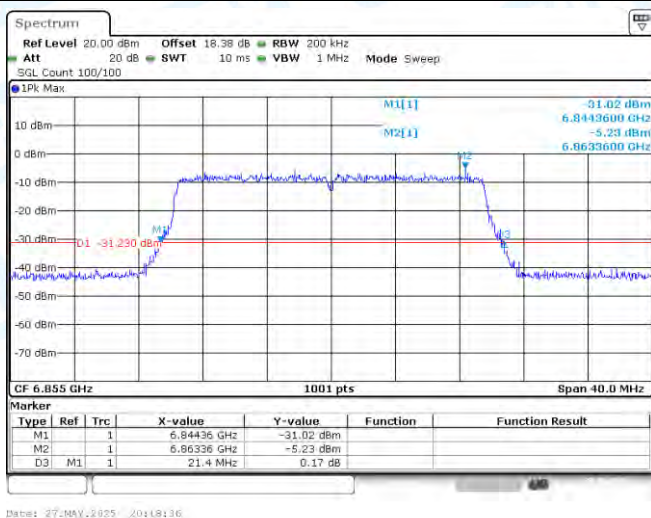




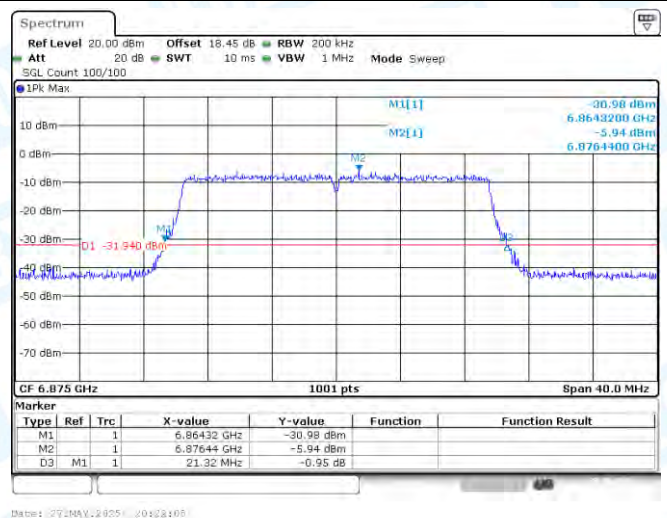
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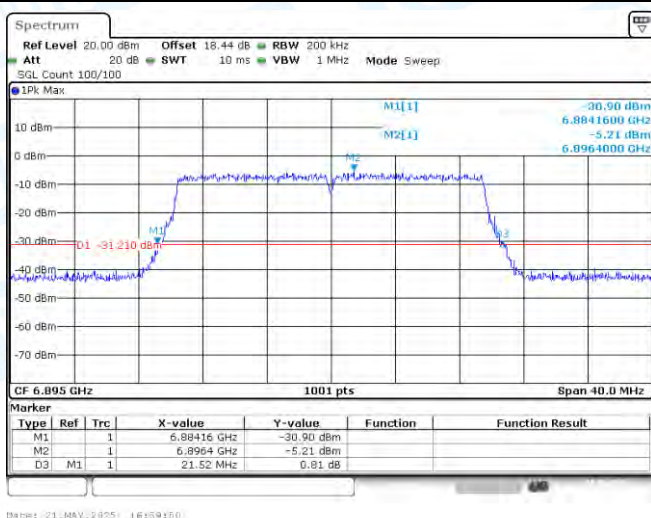
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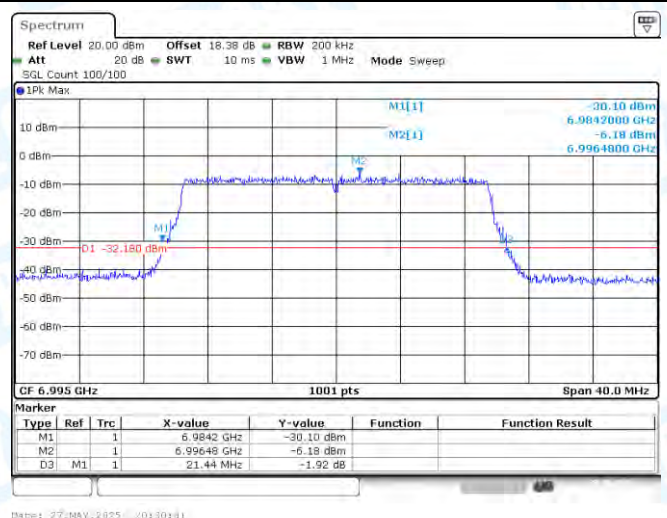
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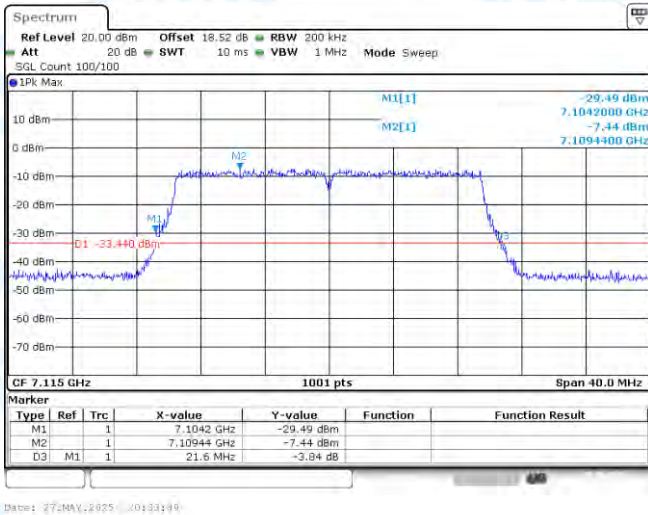
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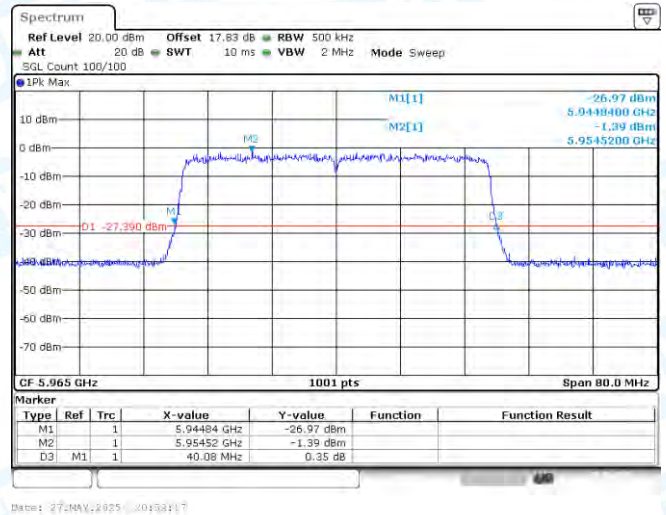
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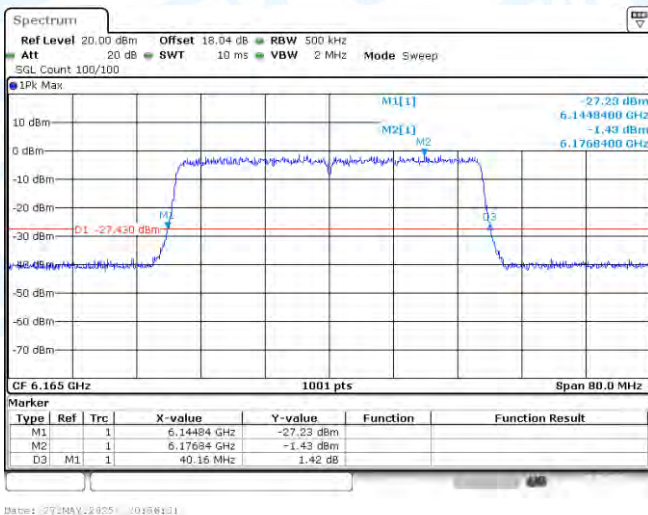
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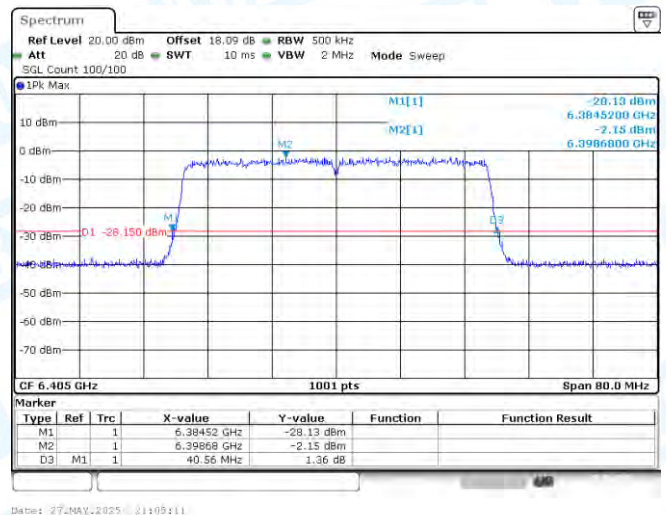
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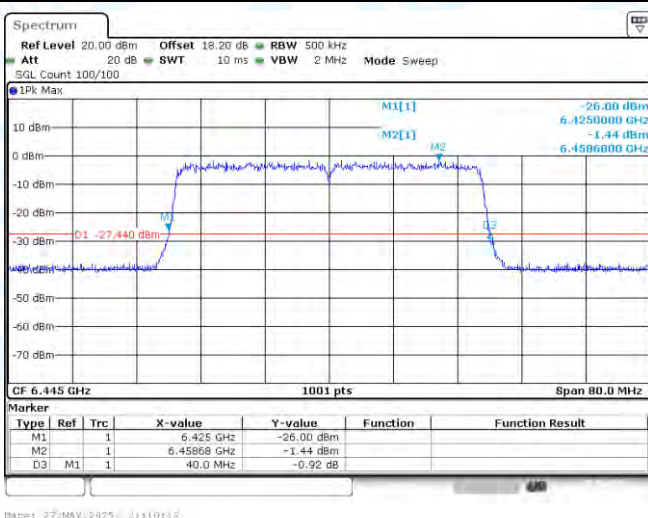
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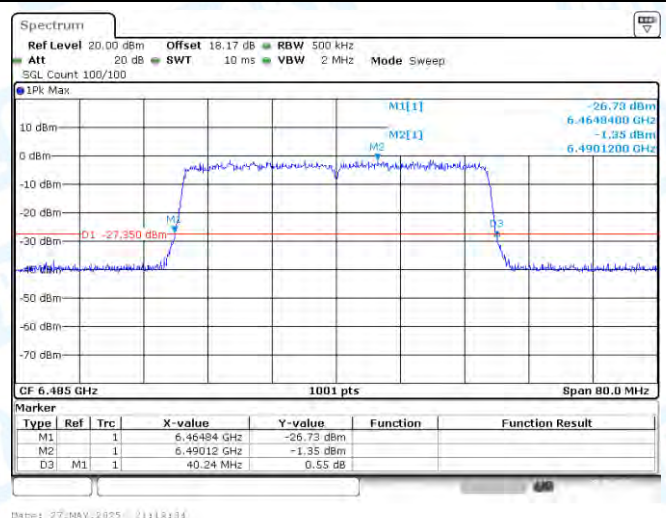
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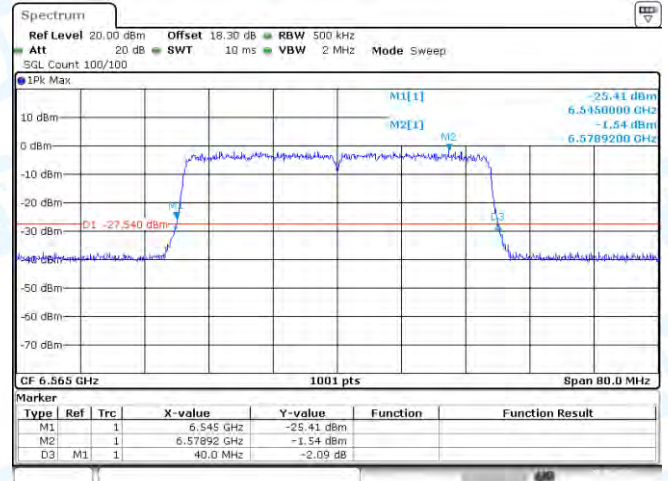
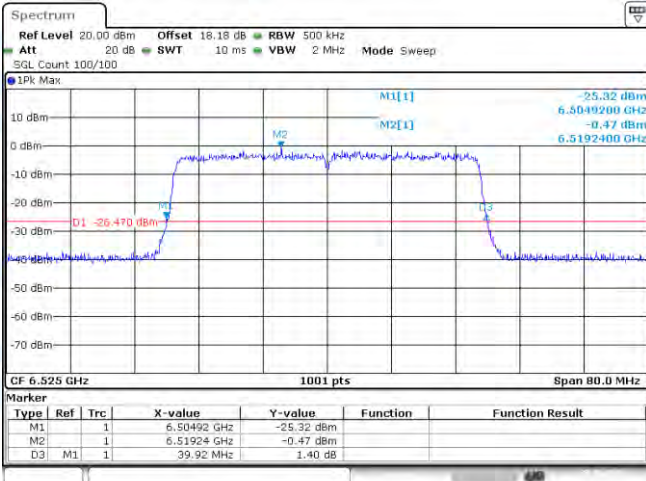
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11AX40ISO-Ant1-6445

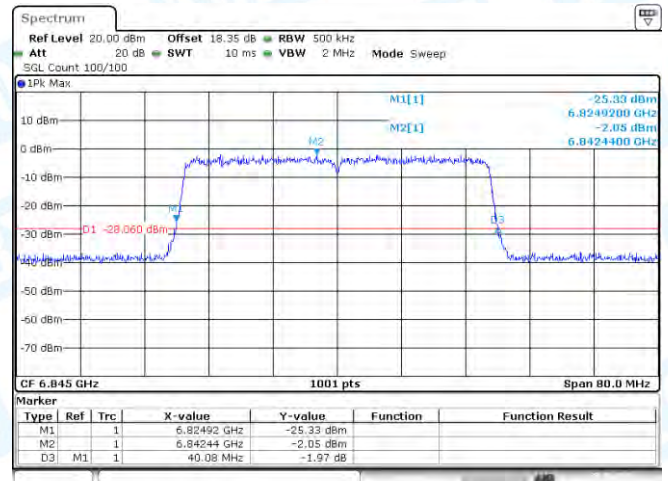
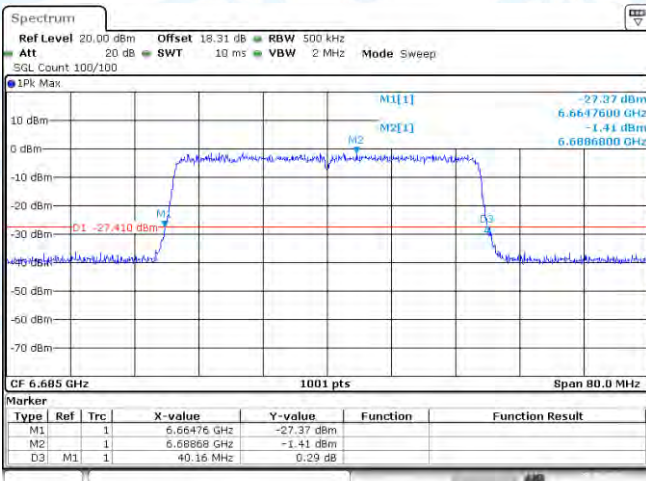


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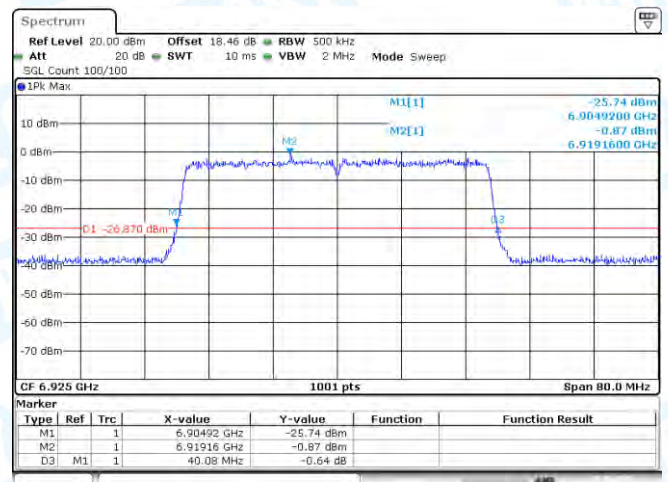
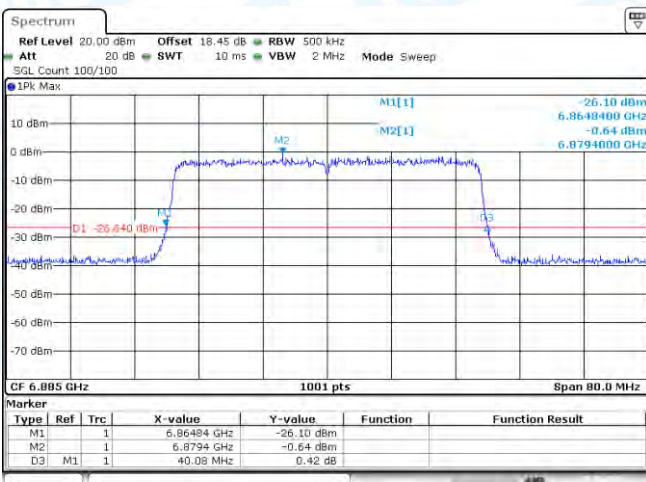
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11AX40SISO-Ant1-6565



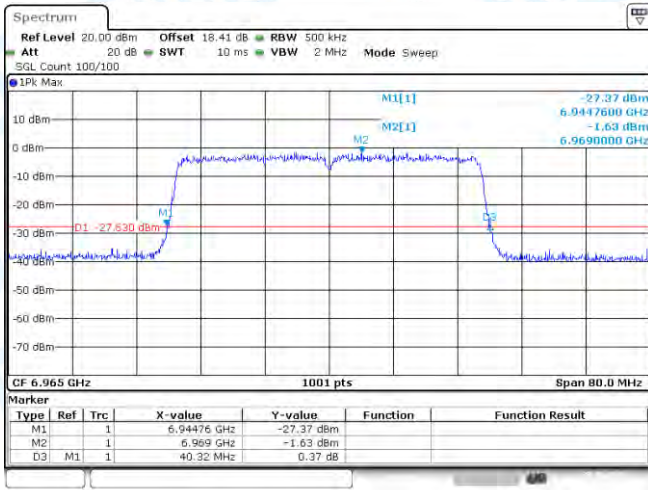
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11AX40SISO-Ant1-6845

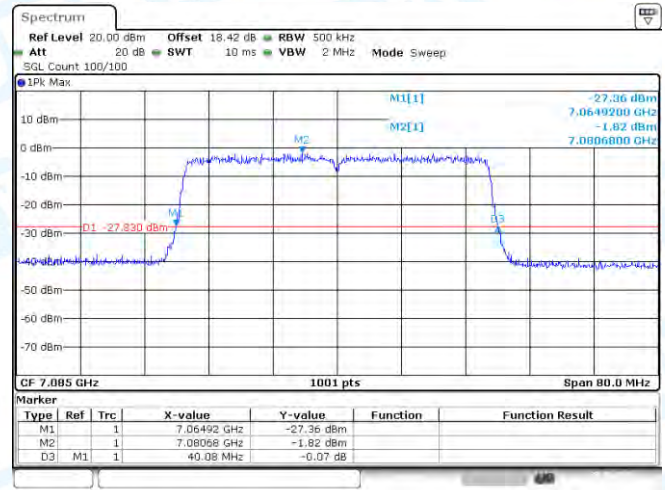


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11AX40SISO-Ant1-6925



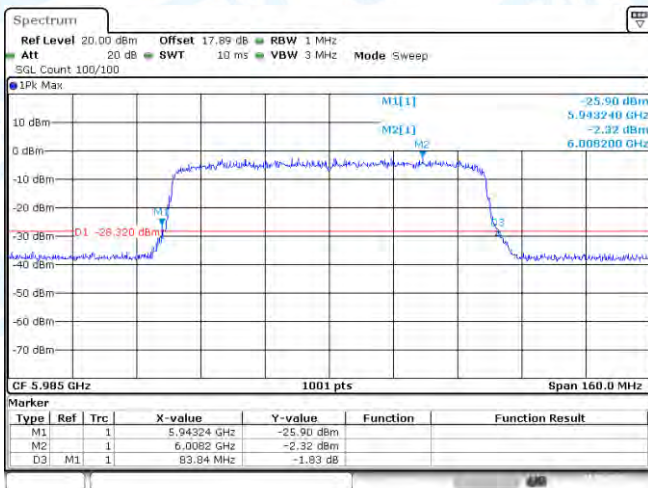
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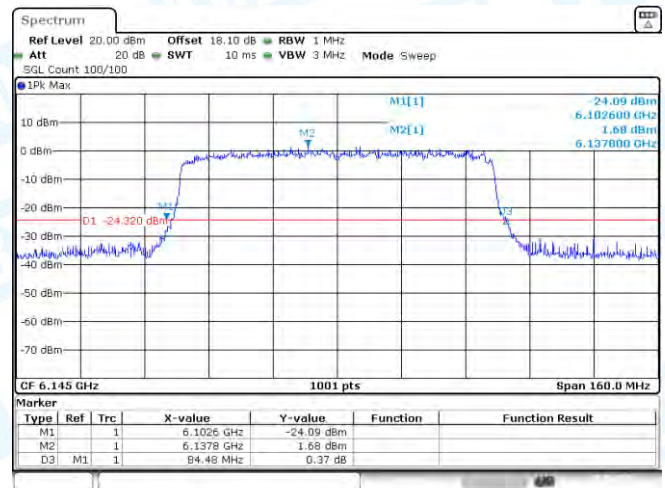
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11AX40SISO-Ant1-6965

11AX40SISO-Ant1-7085



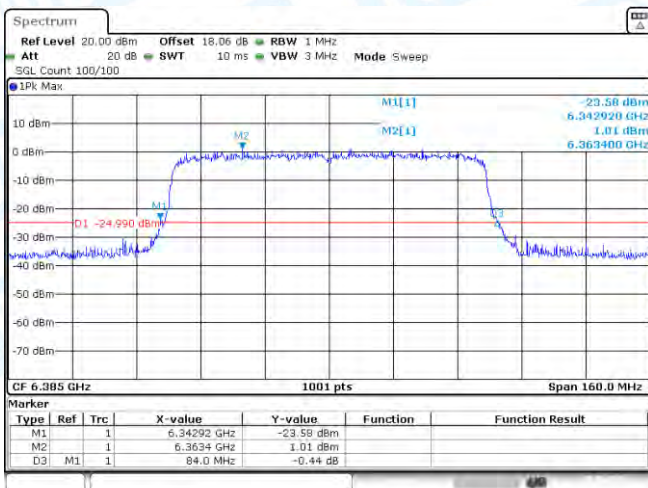
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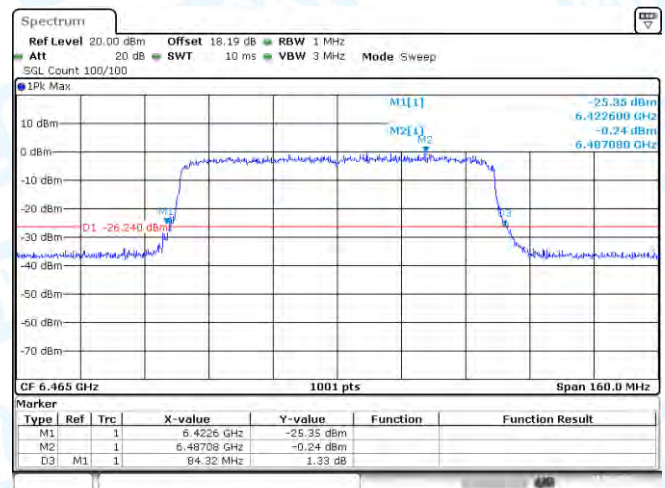
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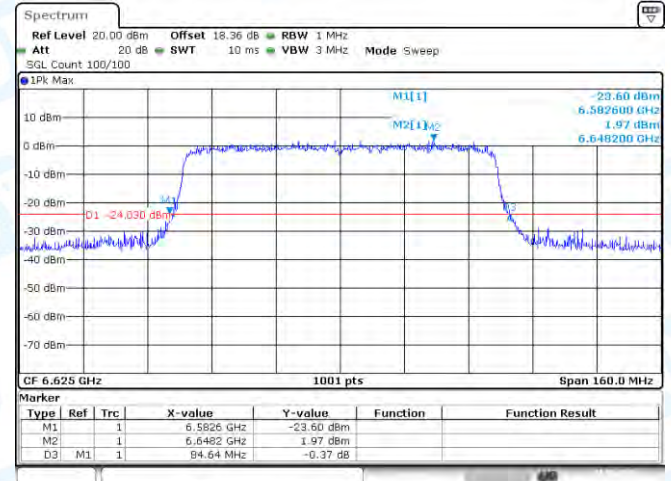
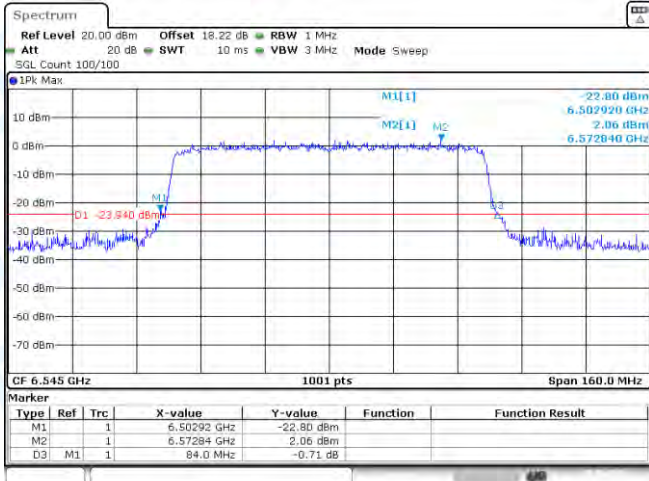
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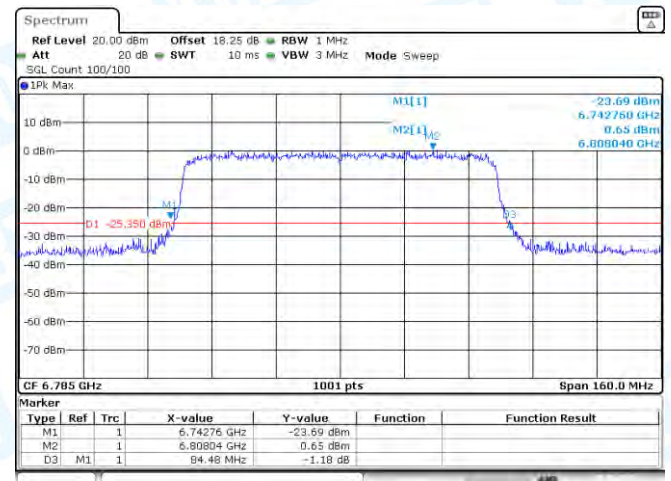
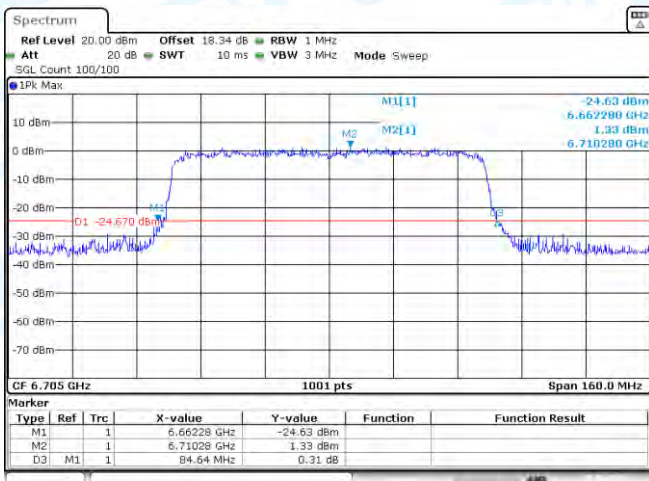
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11AX80SISO-Ant1-6465



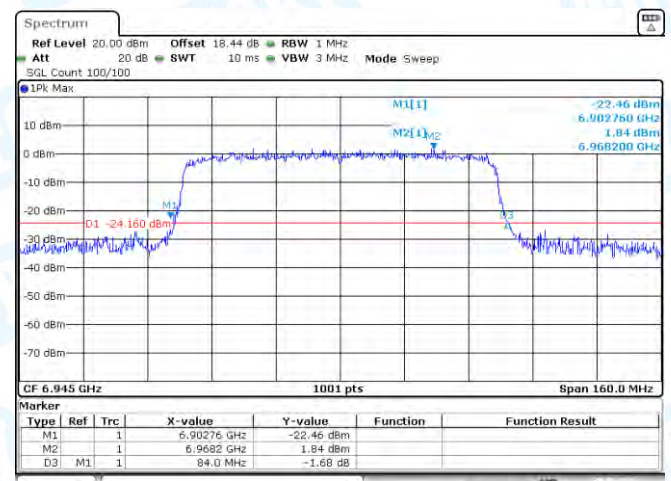
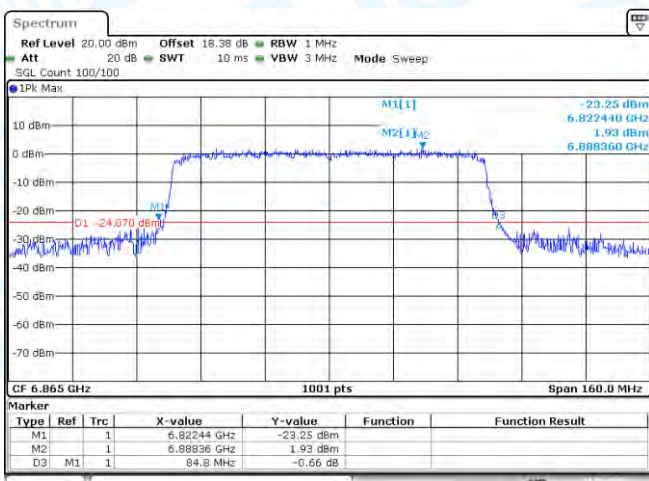
11AX80SISO-Ant1-6545

11AX80SISO-Ant1-6625



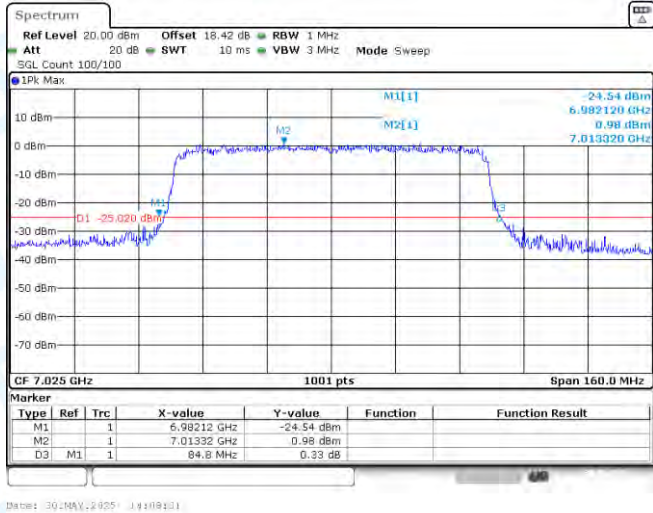
11AX80SISO-Ant1-6705

11AX80SISO-Ant1-6785



11AX80SISO-Ant1-6865

11AX80SISO-Ant1-6945



11AX80SISO-Ant1-7025

Appendix 2: Occupied channel bandwidth

2.1 Test Result

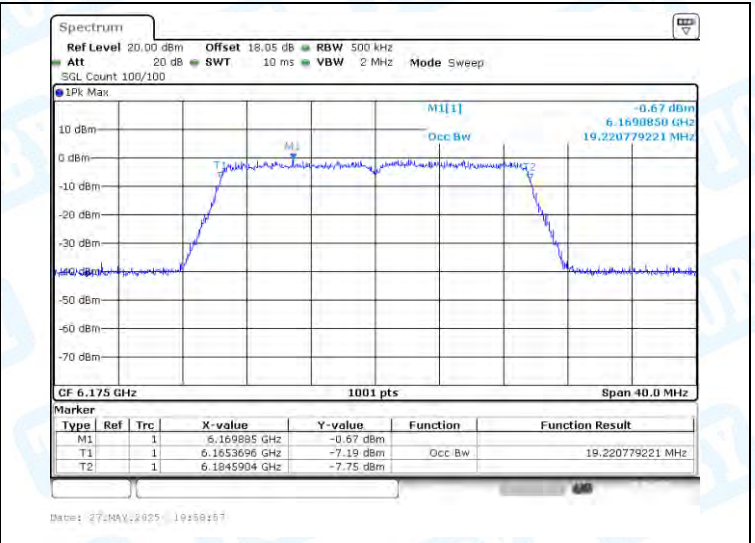
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11AX20SISO	Ant1	5955	19.301	5945.2897	5964.5904	≤320	PASS
11AX20SISO	Ant1	6175	19.221	6165.3696	6184.5904	≤320	PASS
11AX20SISO	Ant1	6415	19.181	6405.3696	6424.5504	≤320	PASS
11AX20SISO	Ant1	6435	19.301	6425.2897	6444.5904	≤320	PASS
11AX20SISO	Ant1	6475	19.261	6465.3297	6484.5904	≤320	PASS
11AX20SISO	Ant1	6515	19.341	6505.2897	6524.6304	≤320	PASS
11AX20SISO	Ant1	6535	19.181	6525.3696	6544.5504	≤320	PASS
11AX20SISO	Ant1	6695	19.261	6685.3696	6704.6304	≤320	PASS
11AX20SISO	Ant1	6855	19.221	6845.3696	6864.5904	≤320	PASS
11AX20SISO	Ant1	6875	19.221	6865.3696	6884.5904	≤320	PASS
11AX20SISO	Ant1	6895	19.261	6885.3297	6904.5904	≤320	PASS
11AX20SISO	Ant1	6995	19.301	6985.2897	7004.5904	≤320	PASS
11AX20SISO	Ant1	7115	19.301	7105.3297	7124.6304	≤320	PASS
11AX40SISO	Ant1	5965	37.802	5946.0589	5983.8611	≤320	PASS
11AX40SISO	Ant1	6165	37.802	6146.0589	6183.8611	≤320	PASS
11AX40SISO	Ant1	6405	37.802	6386.0589	6423.8611	≤320	PASS
11AX40SISO	Ant1	6445	37.802	6426.0589	6463.8611	≤320	PASS
11AX40SISO	Ant1	6485	37.802	6466.0589	6503.8611	≤320	PASS
11AX40SISO	Ant1	6525	37.802	6506.0589	6543.8611	≤320	PASS
11AX40SISO	Ant1	6565	37.882	6546.0589	6583.9411	≤320	PASS
11AX40SISO	Ant1	6685	37.802	6666.0589	6703.8611	≤320	PASS
11AX40SISO	Ant1	6845	37.802	6826.0589	6863.8611	≤320	PASS
11AX40SISO	Ant1	6885	37.722	6866.1389	6903.8611	≤320	PASS
11AX40SISO	Ant1	6925	37.802	6906.0589	6943.8611	≤320	PASS
11AX40SISO	Ant1	6965	37.802	6946.0589	6983.8611	≤320	PASS
11AX40SISO	Ant1	7085	37.802	7066.0589	7103.8611	≤320	PASS
11AX80SISO	Ant1	5985	77.043	5946.4785	6023.5215	≤320	PASS
11AX80SISO	Ant1	6145	76.883	6106.6384	6183.5215	≤320	PASS
11AX80SISO	Ant1	6385	77.203	6346.4785	6423.6813	≤320	PASS
11AX80SISO	Ant1	6465	77.203	6426.3187	6503.5215	≤320	PASS
11AX80SISO	Ant1	6545	77.043	6506.4785	6583.5215	≤320	PASS
11AX80SISO	Ant1	6625	77.363	6586.3187	6663.6813	≤320	PASS
11AX80SISO	Ant1	6705	77.203	6666.3187	6743.5215	≤320	PASS
11AX80SISO	Ant1	6785	77.203	6746.4785	6823.6813	≤320	PASS
11AX80SISO	Ant1	6865	77.043	6826.4785	6903.5215	≤320	PASS
11AX80SISO	Ant1	6945	77.203	6906.3187	6983.5215	≤320	PASS
11AX80SISO	Ant1	7025	77.203	6986.4785	7063.6813	≤320	PASS

Note: RF Conducted test Offset= cable loss+ Attenuator(10dB).

2.2 Test Graphs



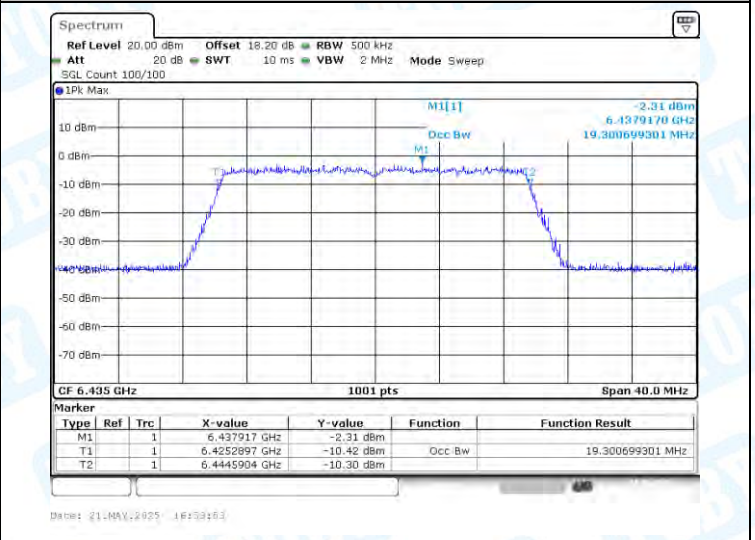
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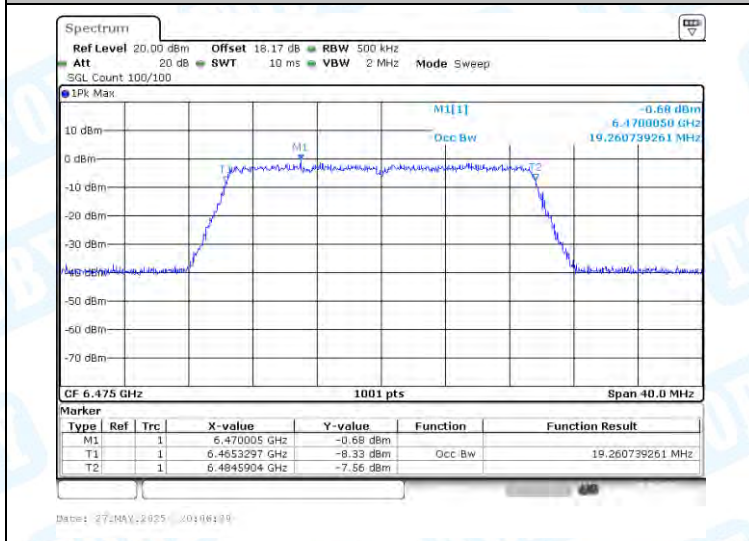
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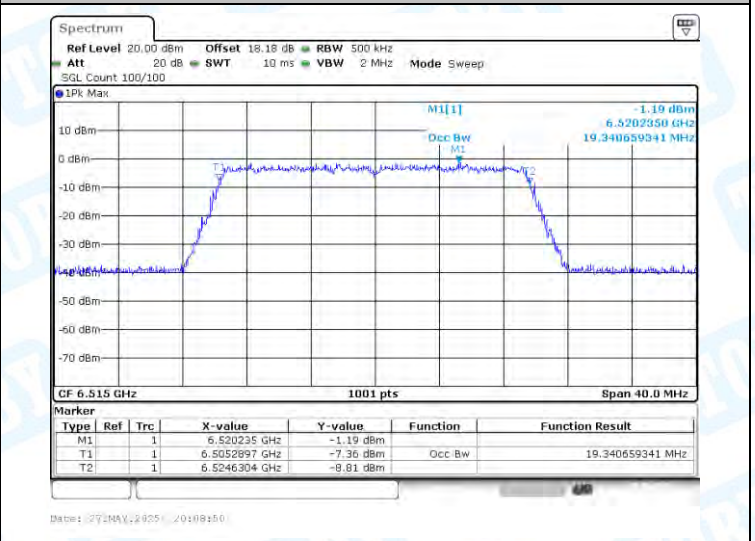
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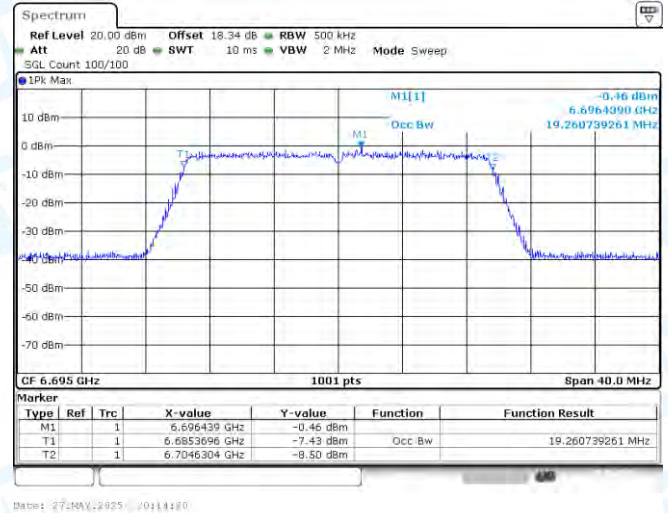
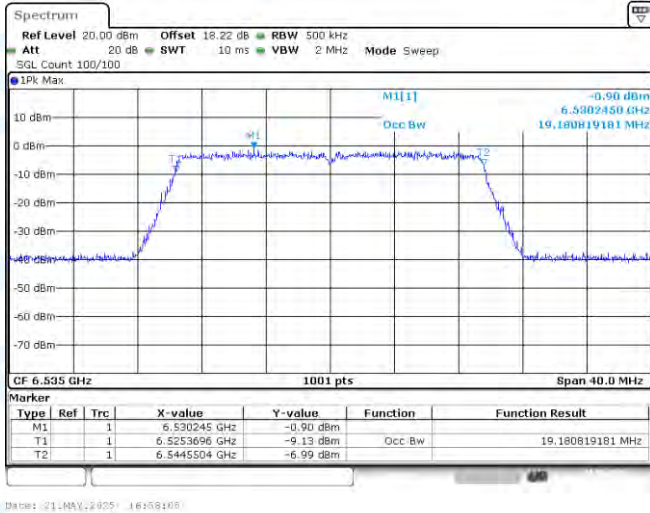
11AX20SISO-Ant1-6435-PASS



11AX20SISO-Ant1-6475-PASS

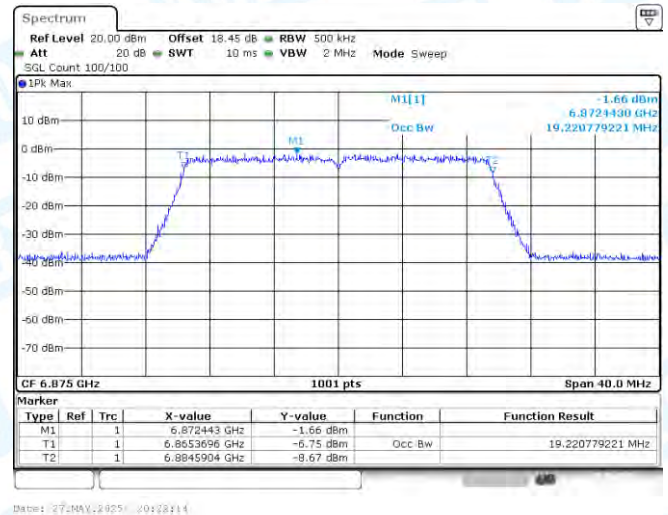
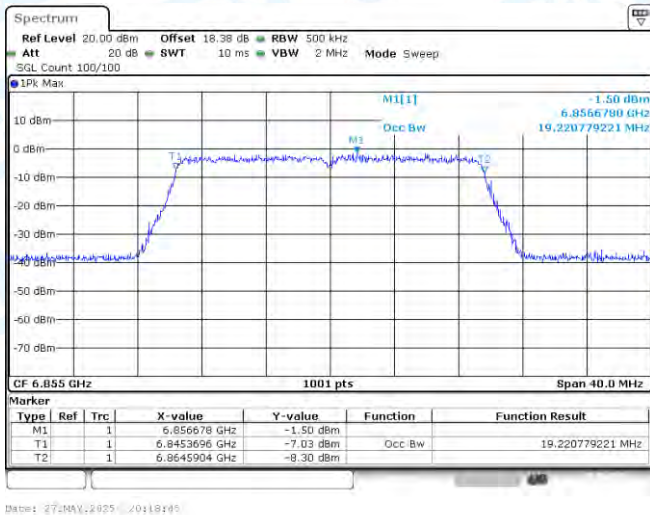


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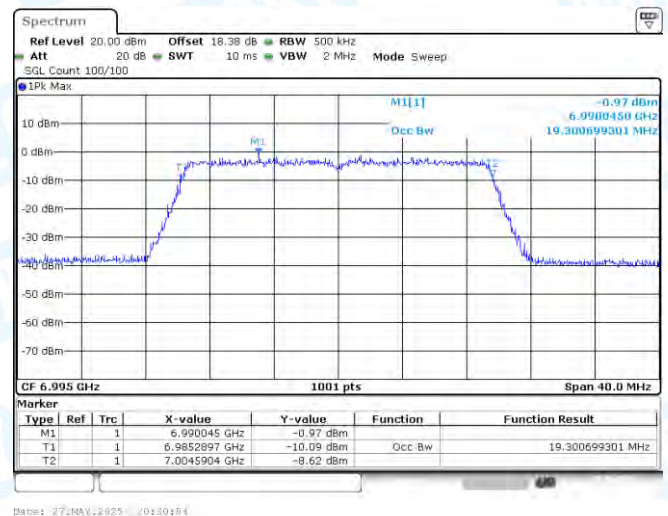
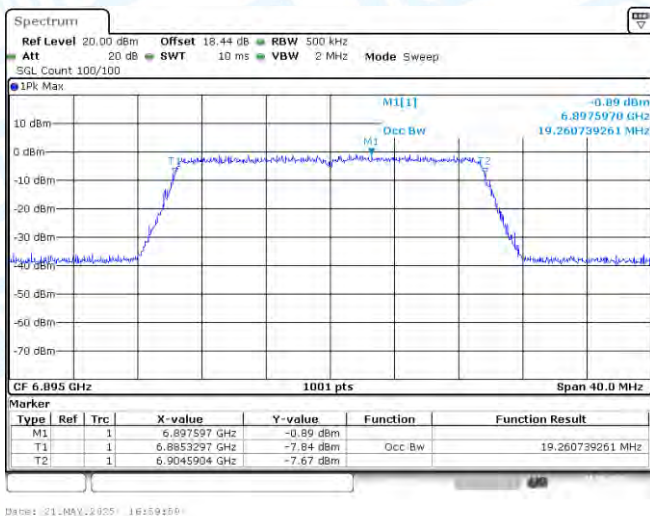
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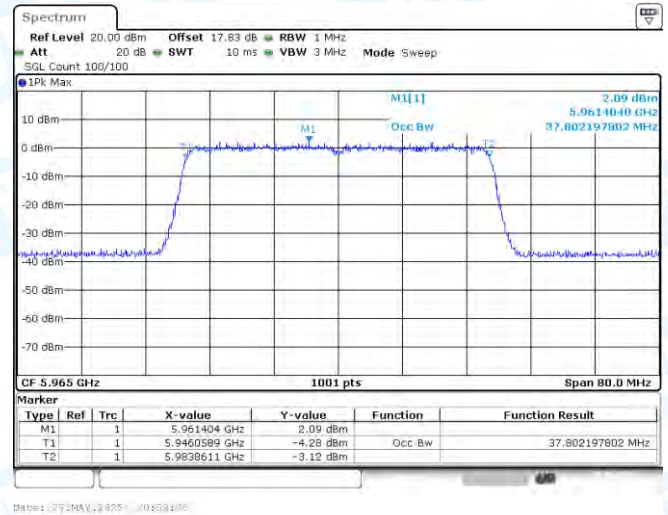
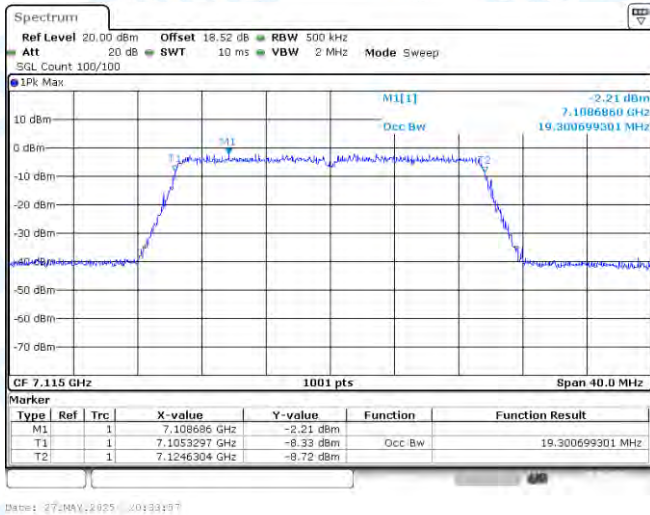
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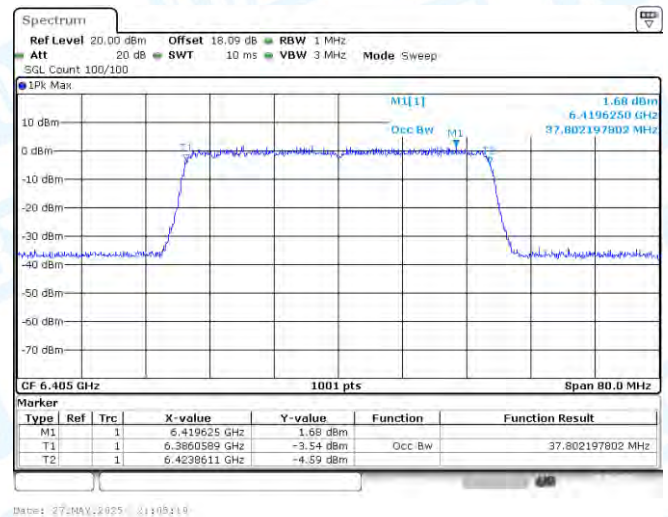
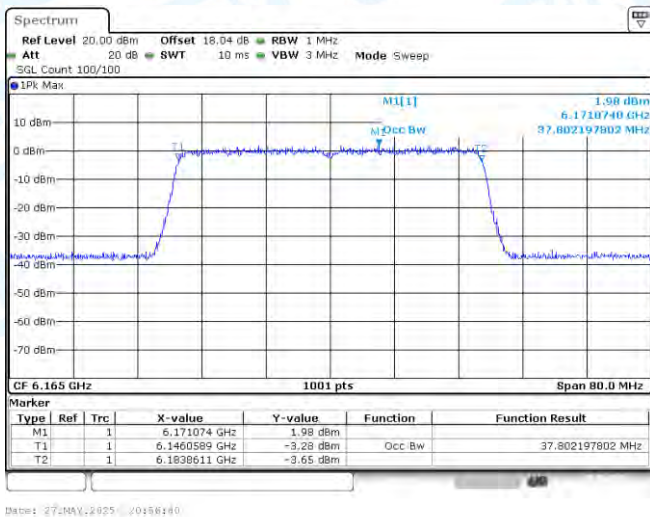
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11AX20ISO-Ant1-6995-PASS



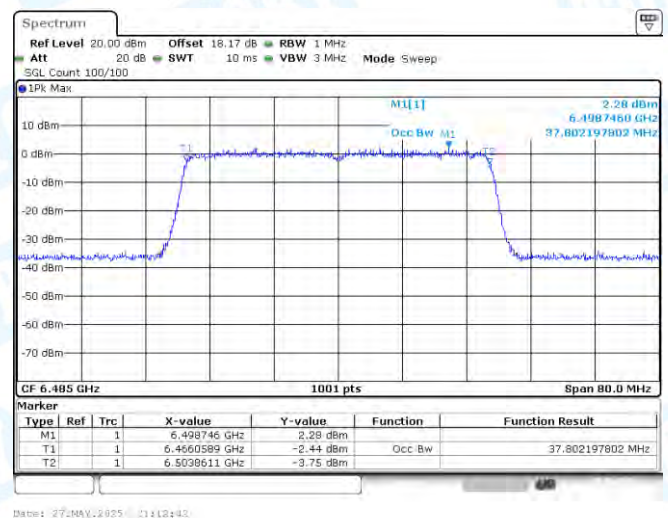
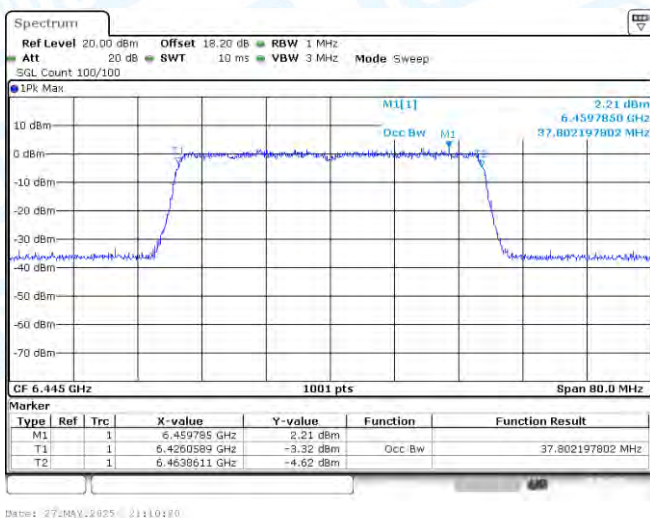
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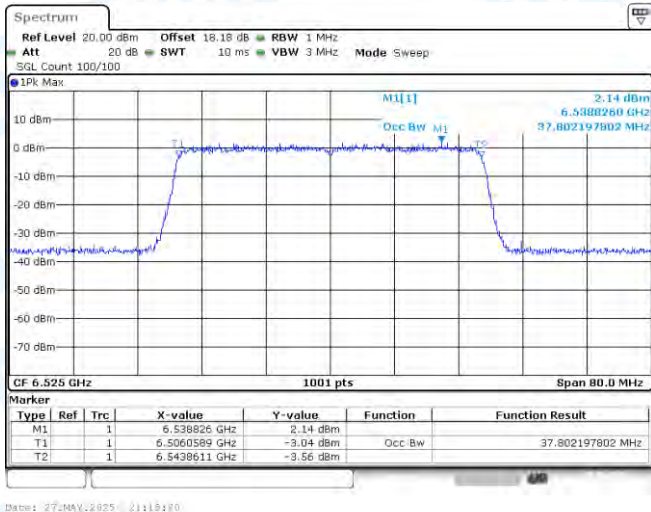
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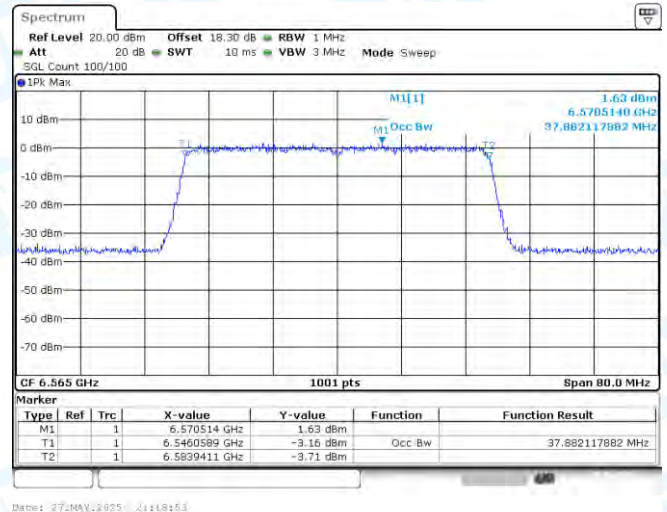


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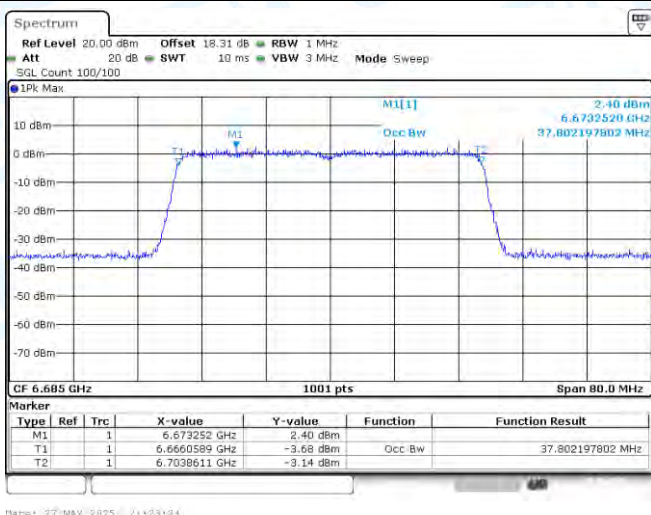
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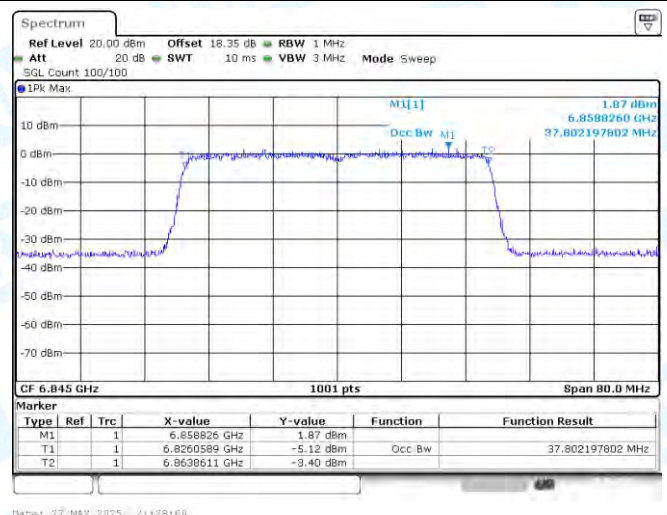
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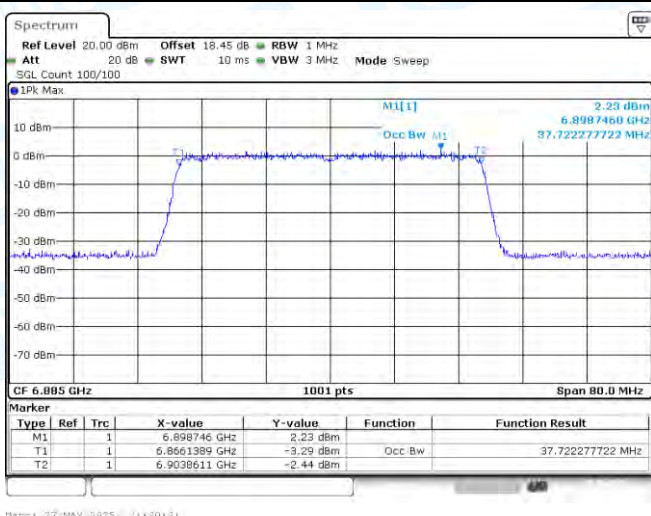
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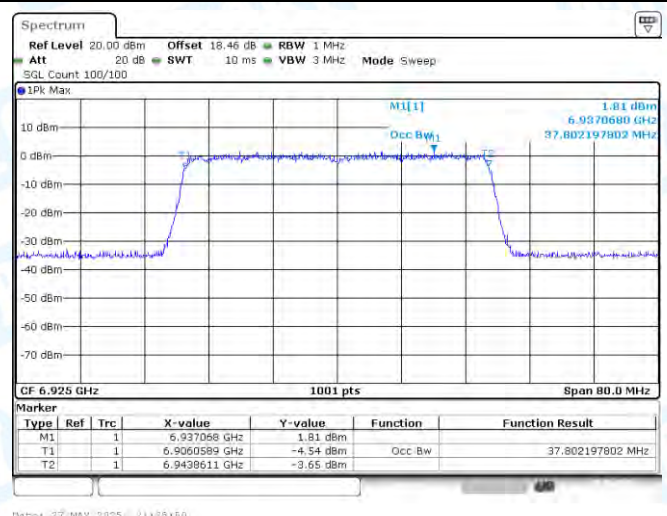
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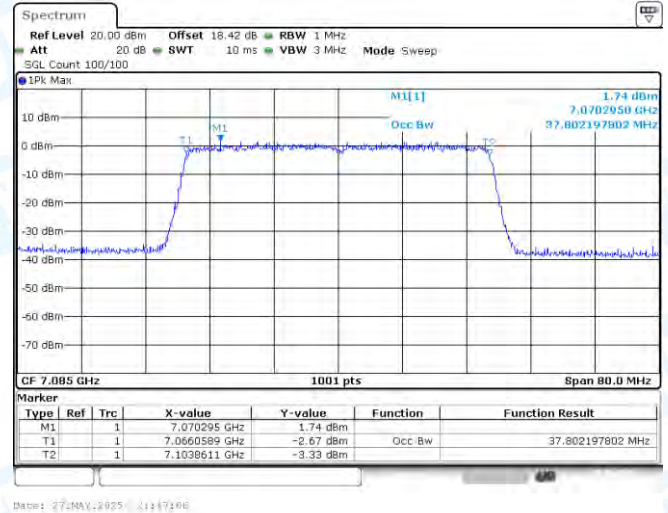
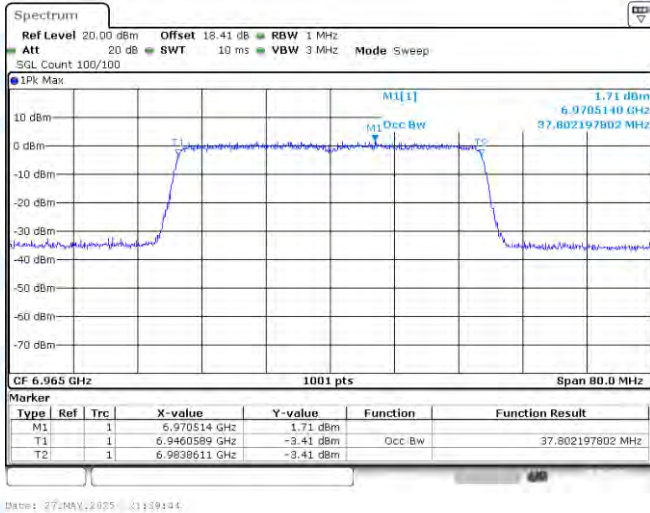
11AX40ISO-Ant1-6845-PASS



11AX40ISO-Ant1-6885-PASS

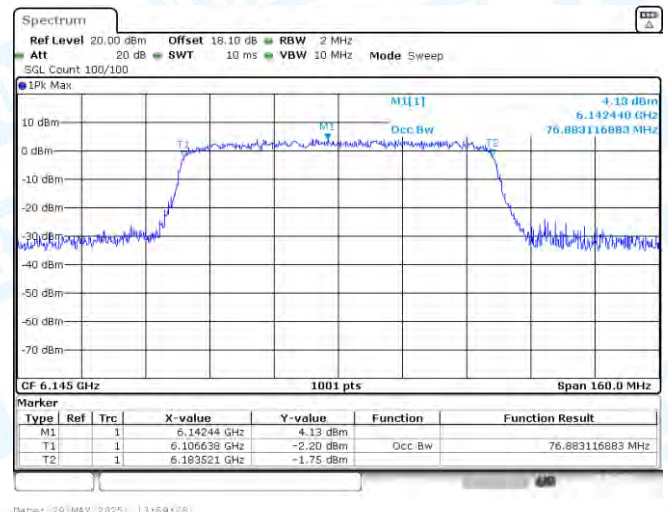
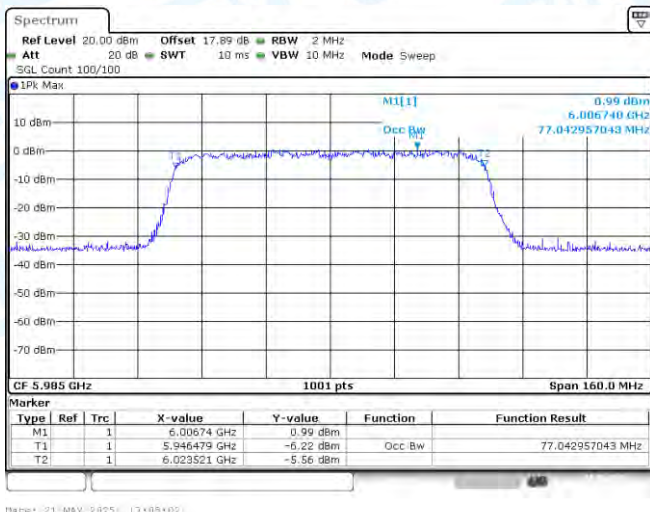


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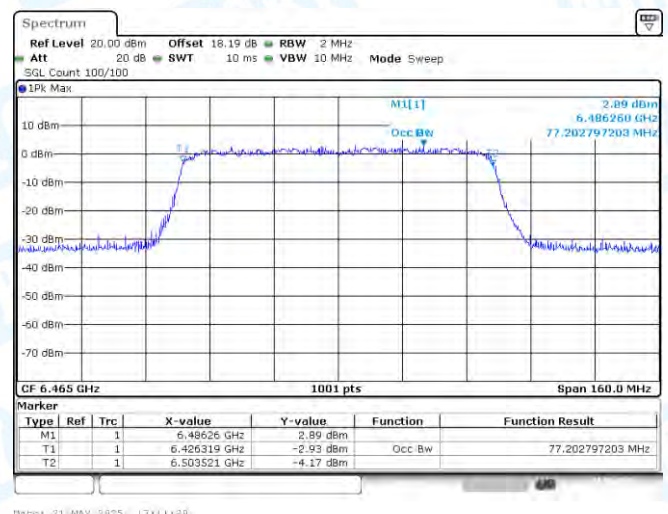
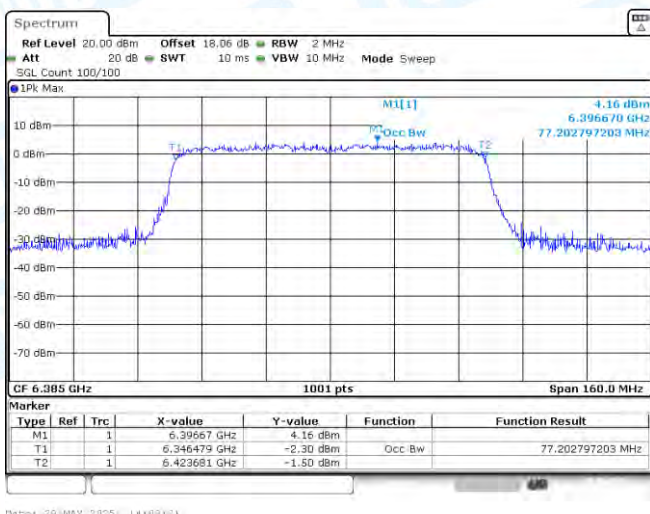
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11AX40ISO-Ant1-7085-PASS



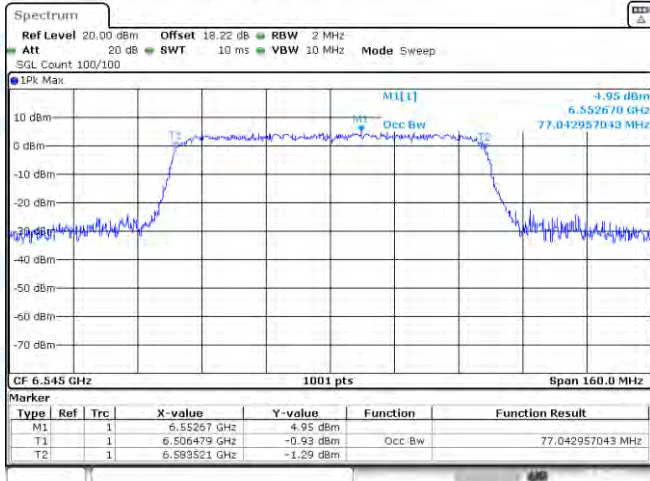
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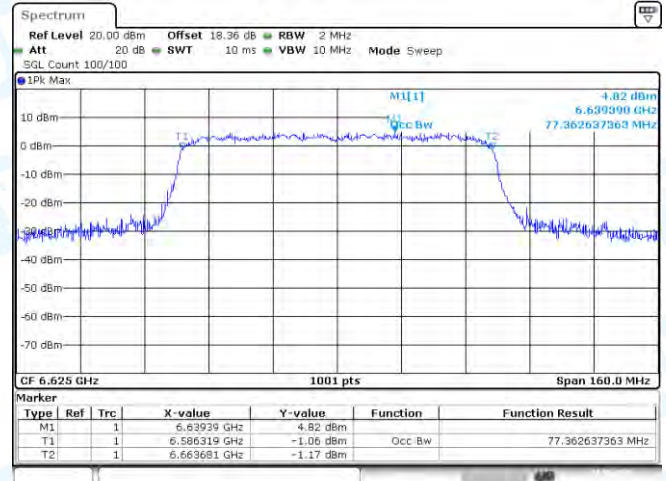


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11AX80ISO-Ant1-6465-PASS



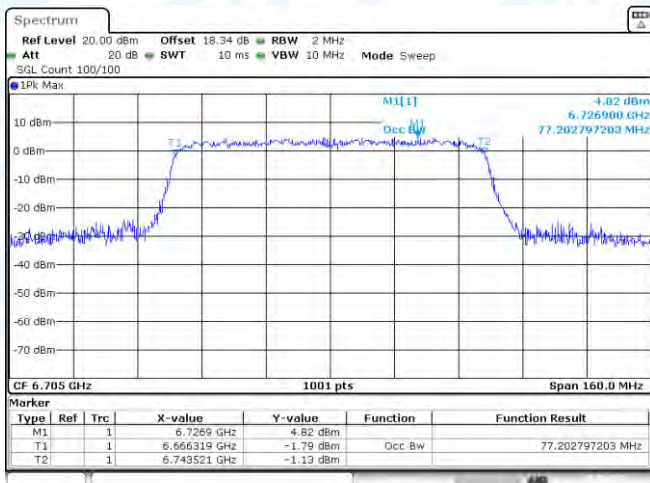
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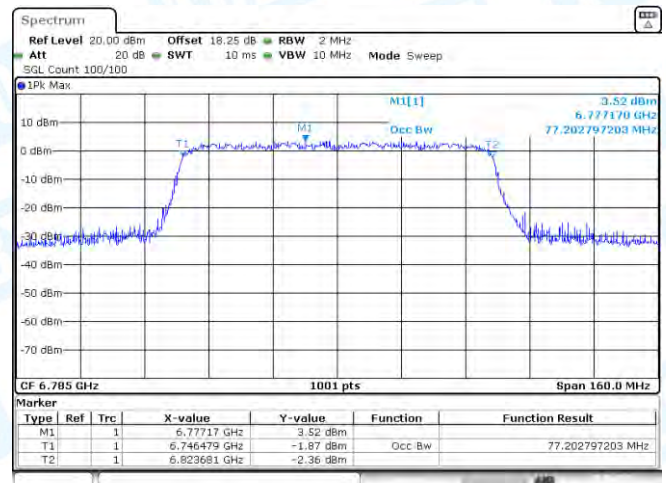
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11AX80SISO-Ant1-6545-PASS

11AX80SISO-Ant1-6625-PASS



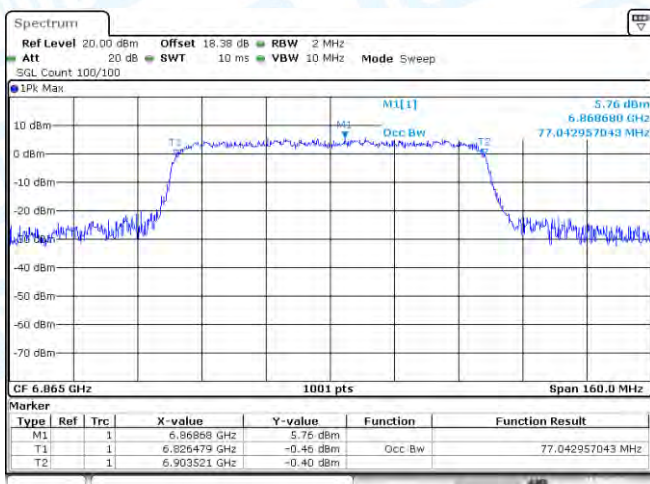
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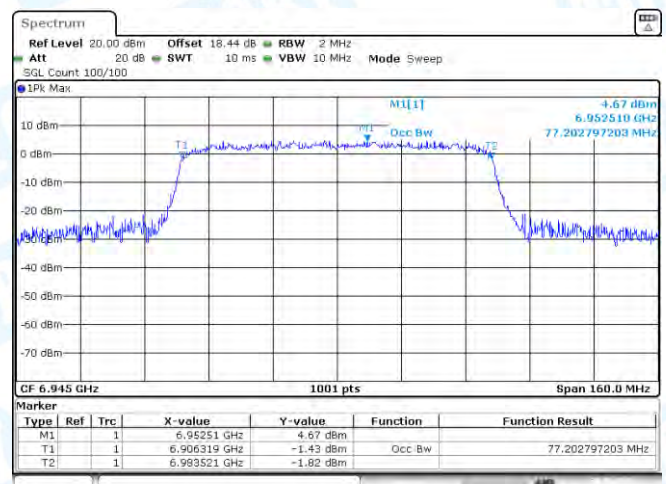
Date: 29-MAY-2025 14:17:41

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11AX80SISO-Ant1-6785-PASS



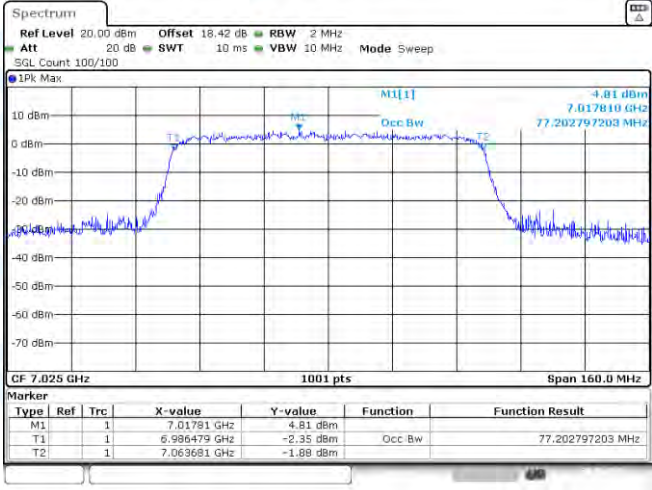
Date: 21-MAY-2025 17:18:06



Date: 30-MAY-2025 14:08:06

11AX80SISO-Ant1-6865-PASS

11AX80SISO-Ant1-6945-PASS



11AX80SISO-Ant1-7025-PASS

Appendix 3: Duty Cycle

3.1 Test Result

TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle [%]	DC Factory	1/T [kHz]
11AX20SISO	Ant1	5955	0.23	0.38	0.23	60.53	2.18	4.35
11AX20SISO	Ant1	6175	0.24	0.39	0.24	61.54	2.11	4.17
11AX20SISO	Ant1	6415	0.24	0.39	0.24	61.54	2.11	4.17
11AX20SISO	Ant1	6435	0.23	0.38	0.23	60.53	2.18	4.35
11AX20SISO	Ant1	6475	0.24	0.39	0.24	61.54	2.11	4.17
11AX20SISO	Ant1	6515	0.24	0.39	0.24	61.54	2.11	4.17
11AX20SISO	Ant1	6535	0.24	0.39	0.24	61.54	2.11	4.17
11AX20SISO	Ant1	6695	0.23	0.38	0.23	60.53	2.18	4.35
11AX20SISO	Ant1	6855	0.24	0.39	0.24	61.54	2.11	4.17
11AX20SISO	Ant1	6875	0.24	0.39	0.24	61.54	2.11	4.17
11AX20SISO	Ant1	6895	0.23	0.38	0.23	60.53	2.18	4.35
11AX20SISO	Ant1	6995	0.24	0.39	0.24	61.54	2.11	4.17
11AX20SISO	Ant1	7115	0.23	0.38	0.23	60.53	2.18	4.35
11AX40SISO	Ant1	5965	0.15	0.30	0.15	50.00	3.01	6.67
11AX40SISO	Ant1	6165	0.14	0.29	0.14	48.28	3.16	7.14
11AX40SISO	Ant1	6405	0.14	0.30	0.14	46.67	3.31	7.14
11AX40SISO	Ant1	6445	0.14	0.29	0.14	48.28	3.16	7.14
11AX40SISO	Ant1	6485	0.15	0.30	0.15	50.00	3.01	6.67
11AX40SISO	Ant1	6525	0.14	0.29	0.14	48.28	3.16	7.14
11AX40SISO	Ant1	6565	0.14	0.29	0.14	48.28	3.16	7.14
11AX40SISO	Ant1	6685	0.14	0.29	0.14	48.28	3.16	7.14
11AX40SISO	Ant1	6845	0.15	0.30	0.15	50.00	3.01	6.67
11AX40SISO	Ant1	6885	0.14	0.29	0.14	48.28	3.16	7.14
11AX40SISO	Ant1	6925	0.14	0.29	0.14	48.28	3.16	7.14
11AX40SISO	Ant1	6965	0.15	0.30	0.15	50.00	3.01	6.67
11AX40SISO	Ant1	7085	0.15	0.30	0.15	50.00	3.01	6.67
11AX80SISO	Ant1	5985	0.10	0.25	0.10	40.00	3.98	10.00
11AX80SISO	Ant1	6145	0.10	0.25	0.10	40.00	3.98	10.00
11AX80SISO	Ant1	6385	0.10	0.25	0.10	40.00	3.98	10.00
11AX80SISO	Ant1	6465	0.10	0.25	0.10	40.00	3.98	10.00
11AX80SISO	Ant1	6545	0.10	0.25	0.10	40.00	3.98	10.00
11AX80SISO	Ant1	6625	0.10	0.25	0.10	40.00	3.98	10.00
11AX80SISO	Ant1	6705	0.10	0.25	0.10	40.00	3.98	10.00
11AX80SISO	Ant1	6785	0.10	0.25	0.10	40.00	3.98	10.00
11AX80SISO	Ant1	6865	0.10	0.25	0.10	40.00	3.98	10.00
11AX80SISO	Ant1	6945	0.10	0.25	0.10	40.00	3.98	10.00
11AX80SISO	Ant1	7025	0.10	0.25	0.10	40.00	3.98	10.00

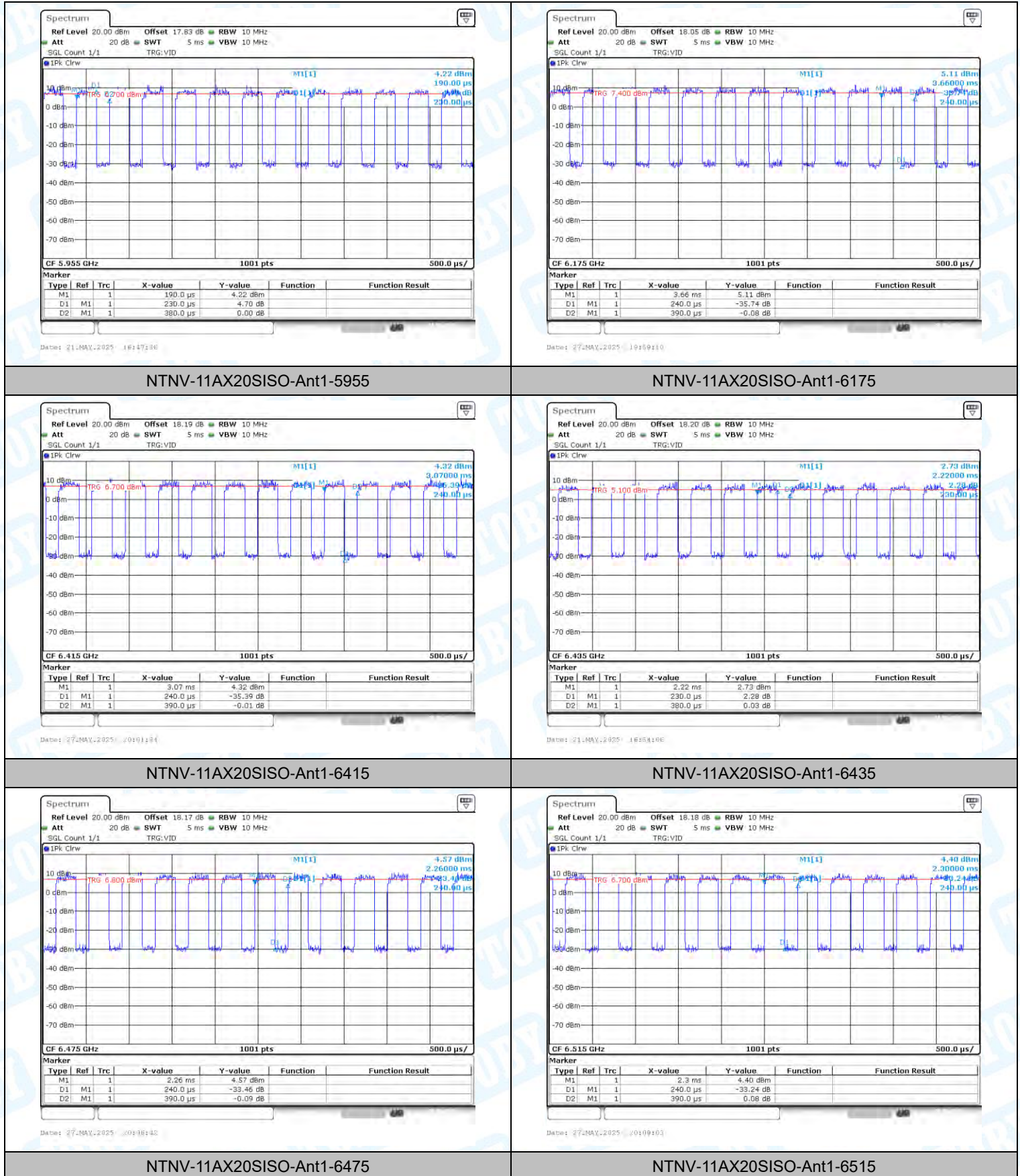
Note: 1, Duty Cycle= Transmission Duration/ Transmission Period

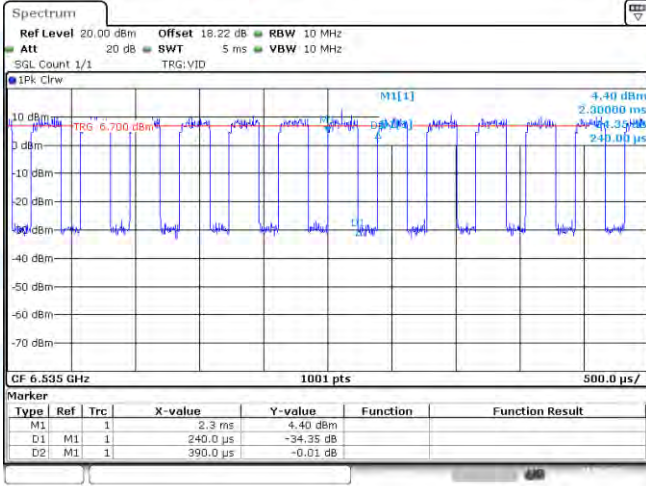
2, DC Factory=10*Log₁₀(1/Duty Cycle)

3, 1/T=1/ Transmission Duration

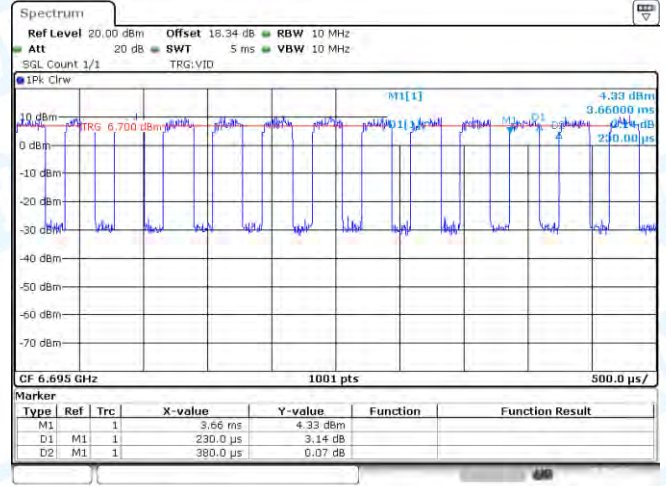
4: RF Conducted test Offset= cable loss+ Attenuator(10dB).

3.2 Test Graphs





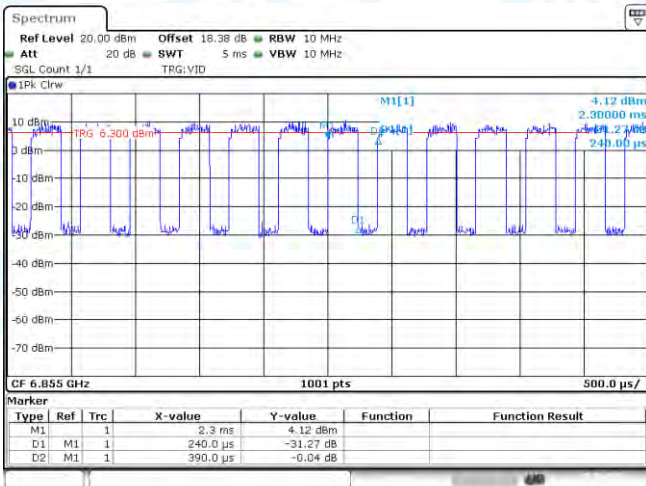
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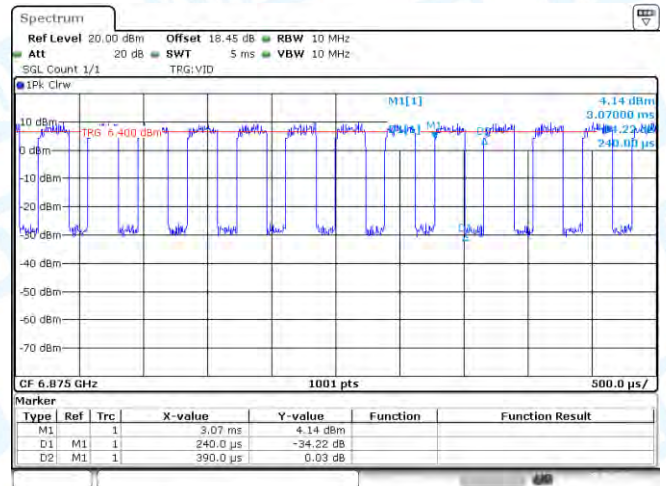
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NTNV-11AX20SISO-Ant1-6535

NTNV-11AX20SISO-Ant1-6695



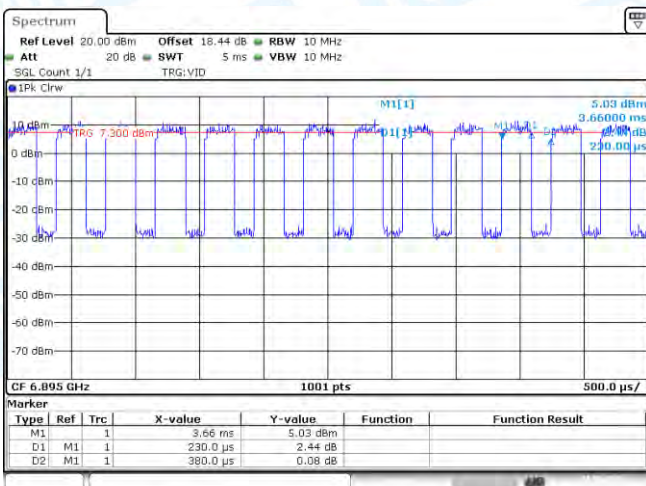
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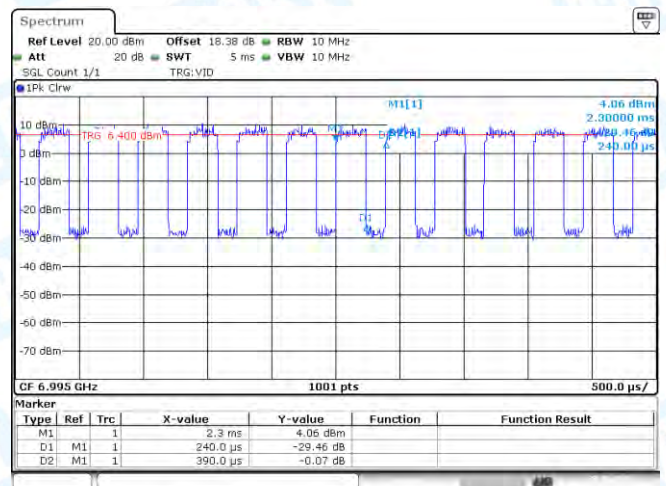
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NTNV-11AX20SISO-Ant1-6855

NTNV-11AX20SISO-Ant1-6875



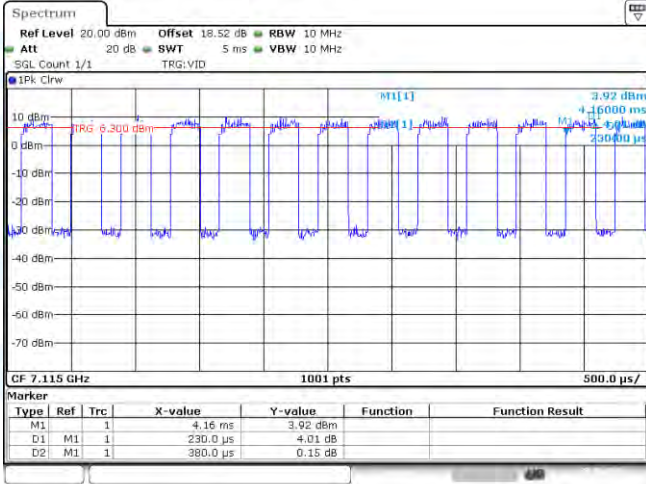
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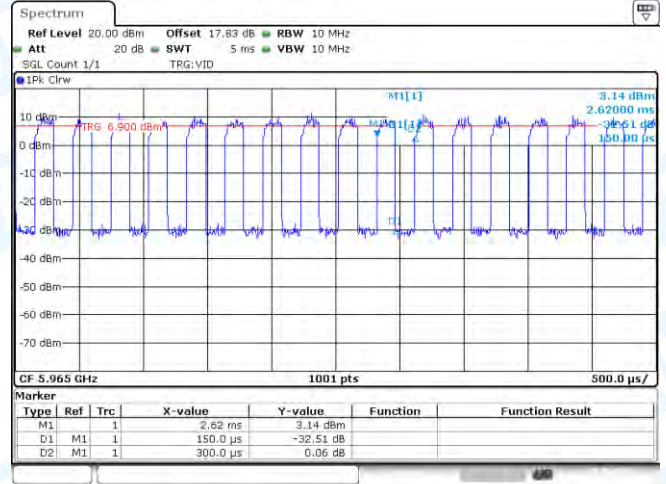
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NTNV-11AX20SISO-Ant1-6895

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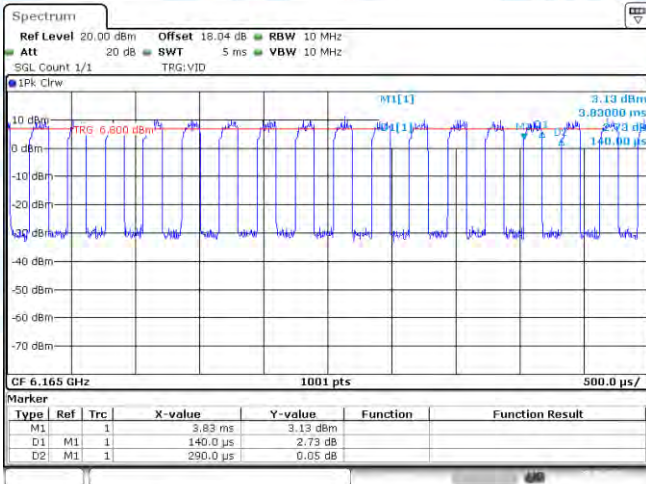
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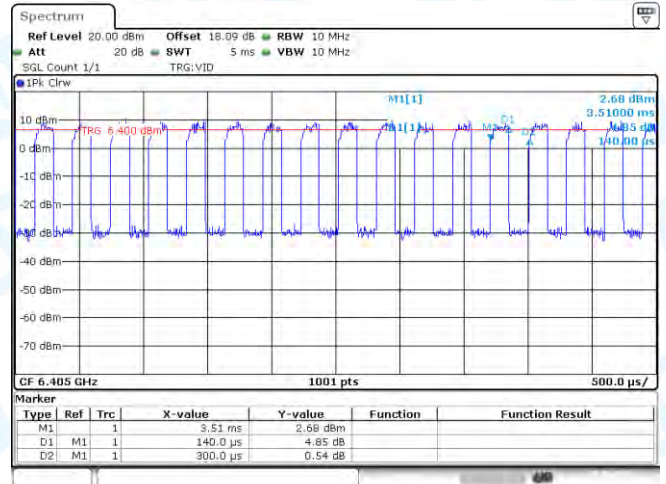
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NTNV-11AX20SISO-Ant1-7115

NTNV-11AX40SISO-Ant1-5965



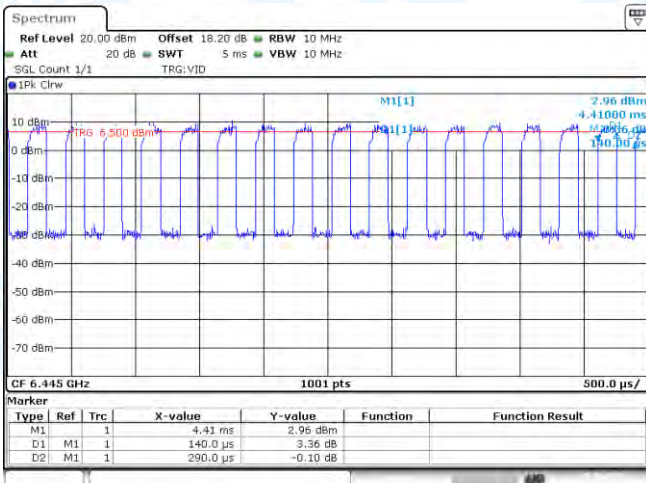
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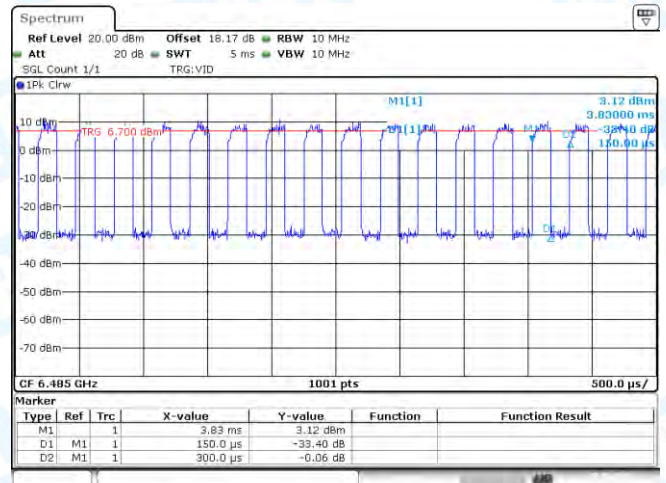
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NTNV-11AX40SISO-Ant1-6165

NTNV-11AX40SISO-Ant1-6405



Date: 27-MAY-2025 11:01:31



Date: 27-MAY-2025 11:02:55

NTNV-11AX40SISO-Ant1-6445

NTNV-11AX40SISO-Ant1-6485