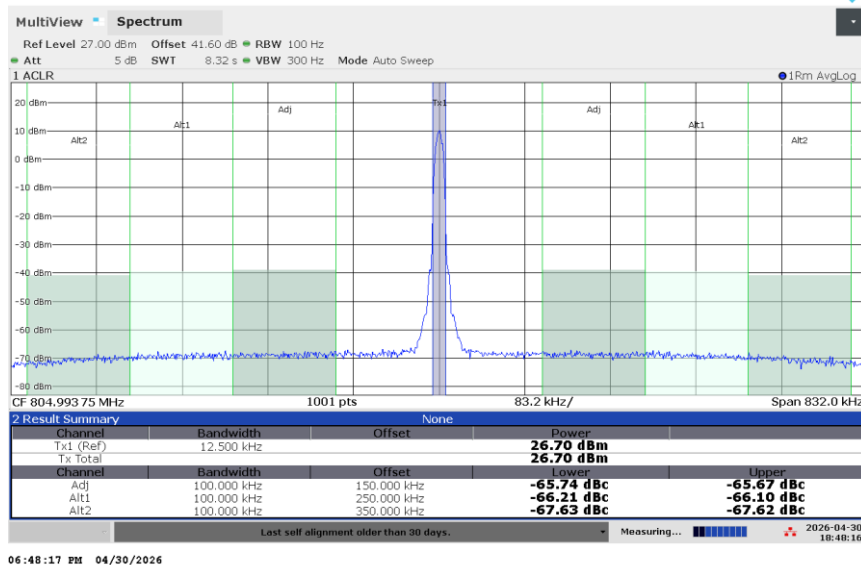
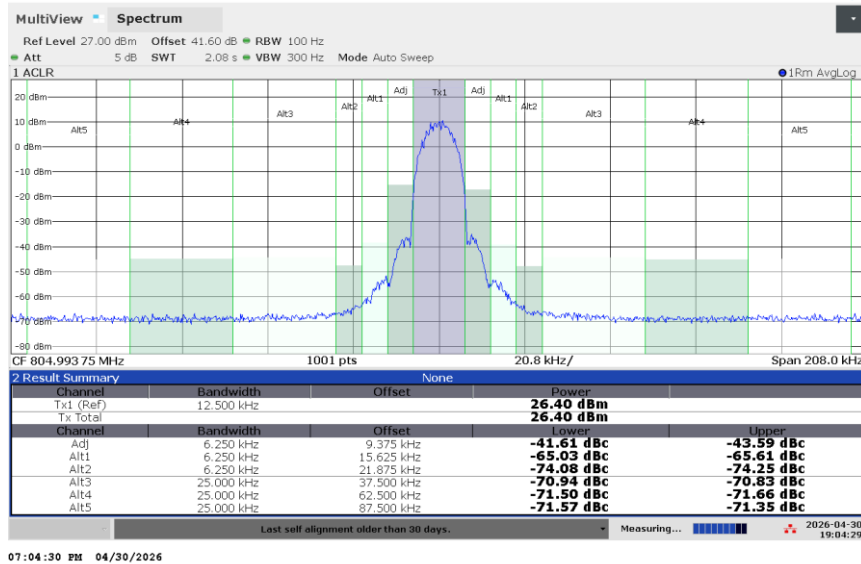


ACP

UL_H-DQPSK_HCH_3dB above AGC



ACP

UL_H-DQPSK_HCH_3dB above AGC



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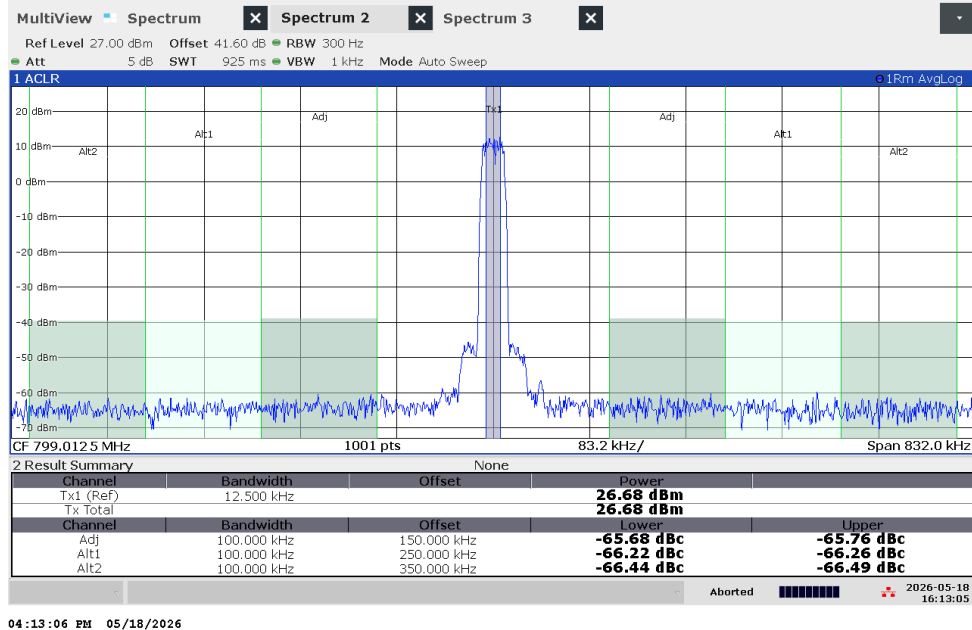
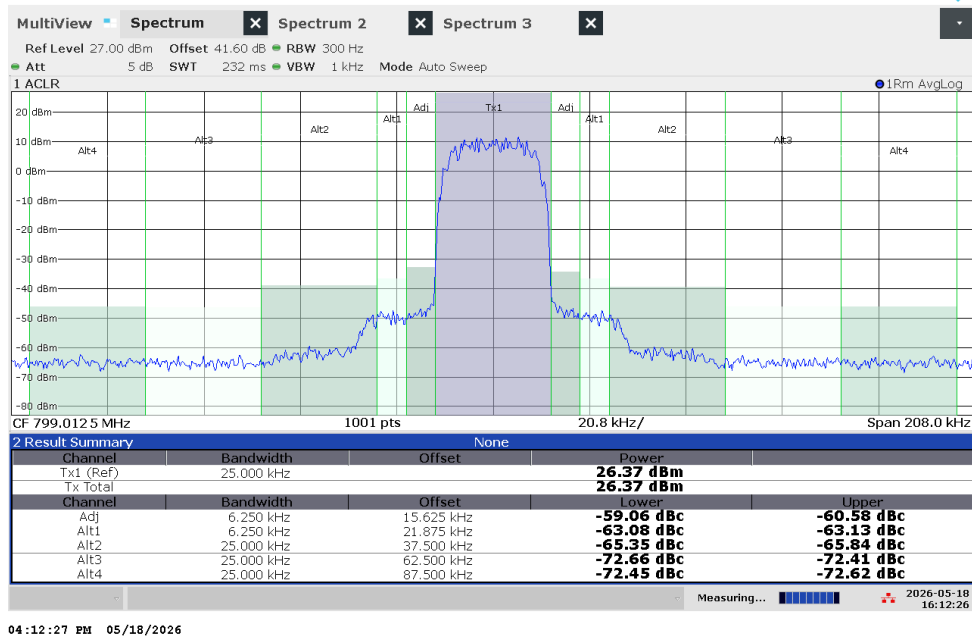


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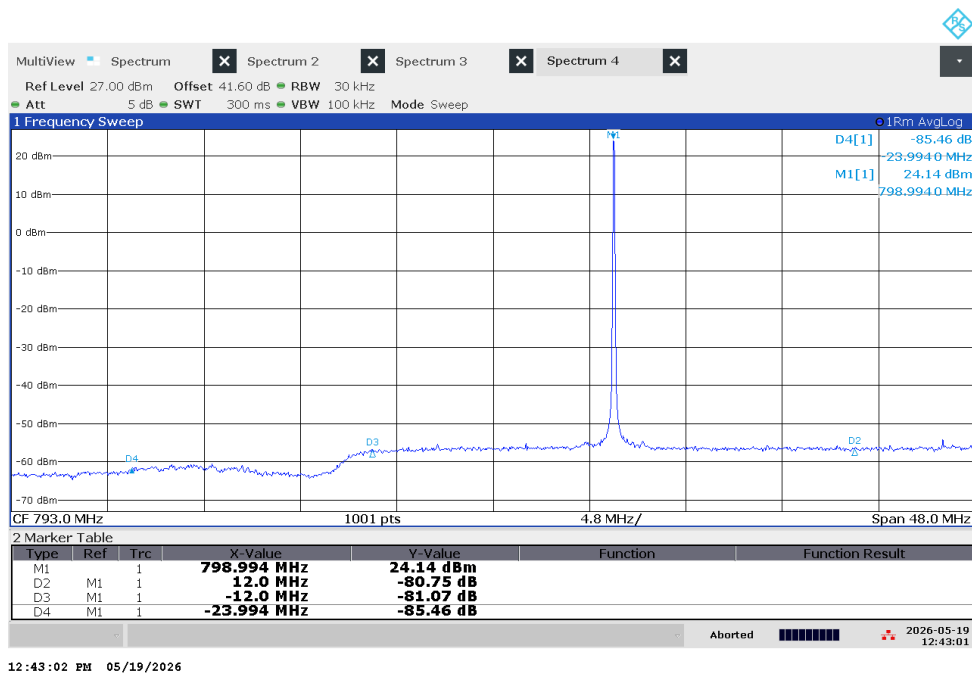
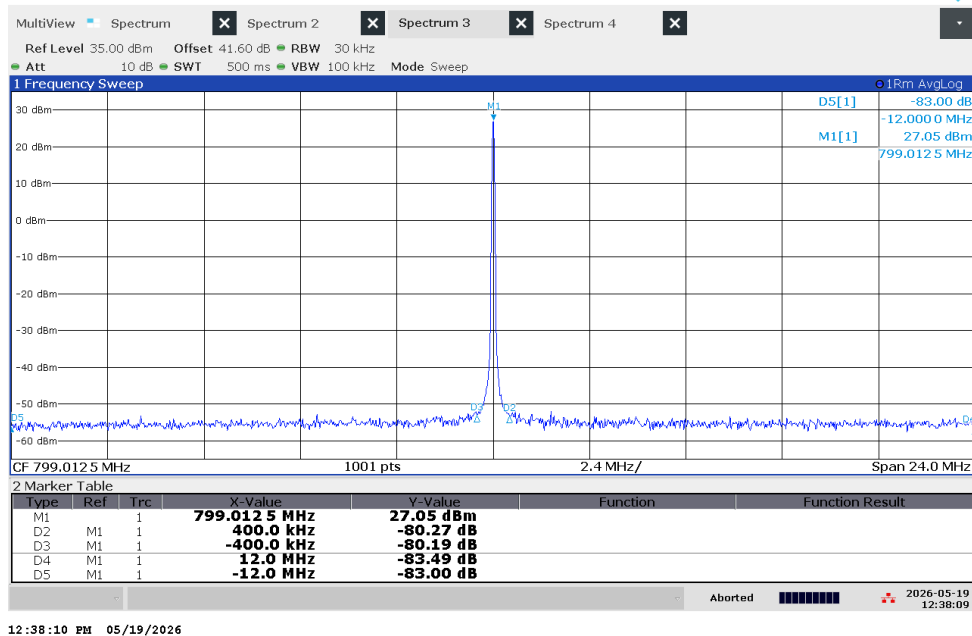
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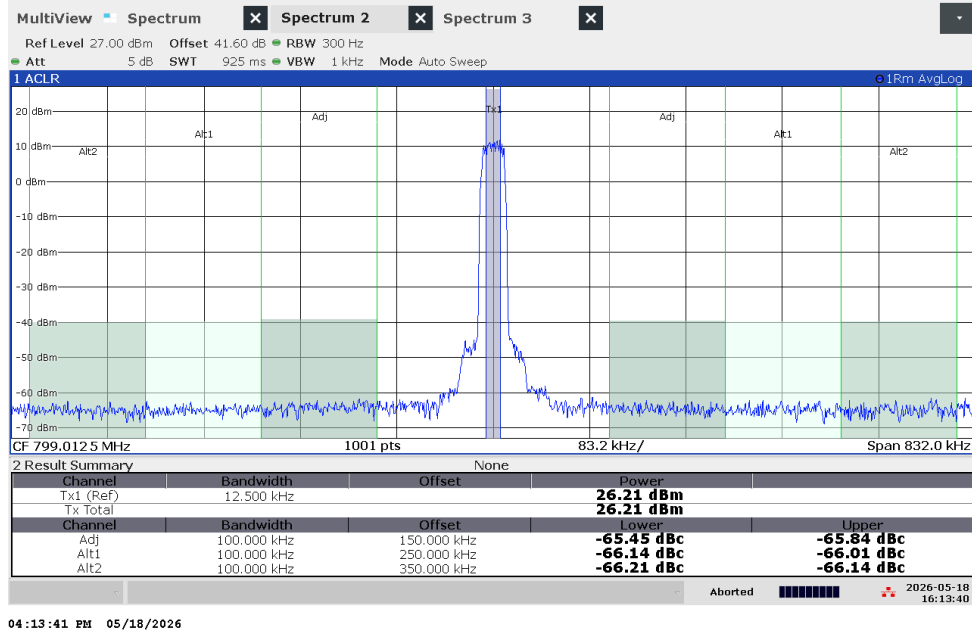
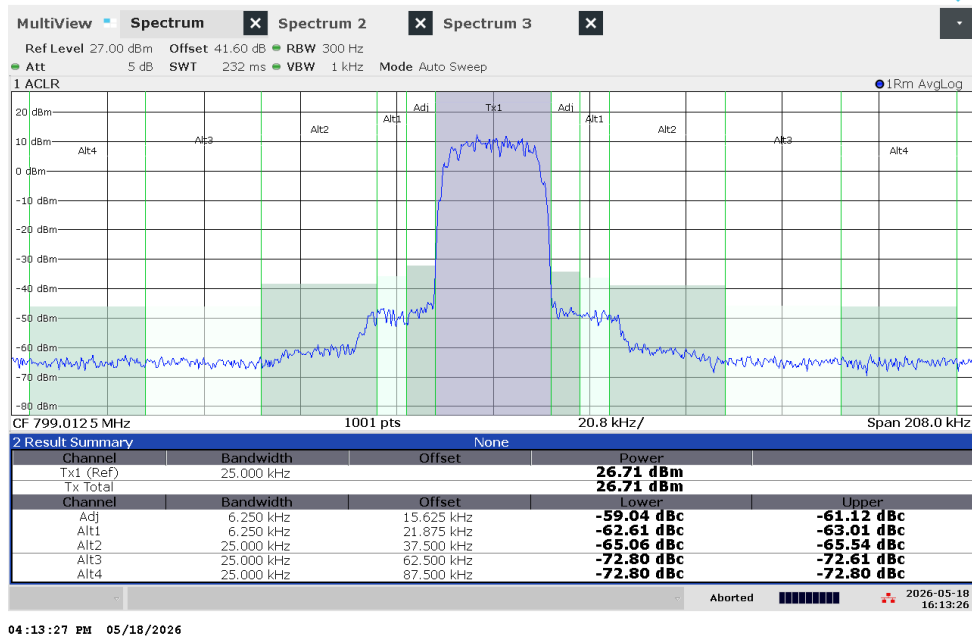
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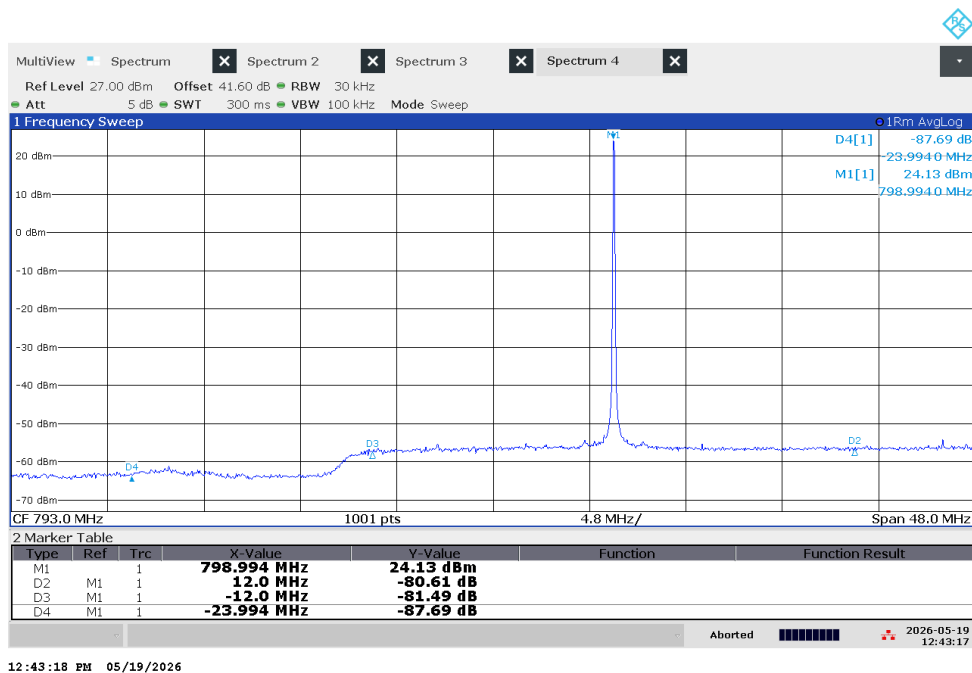
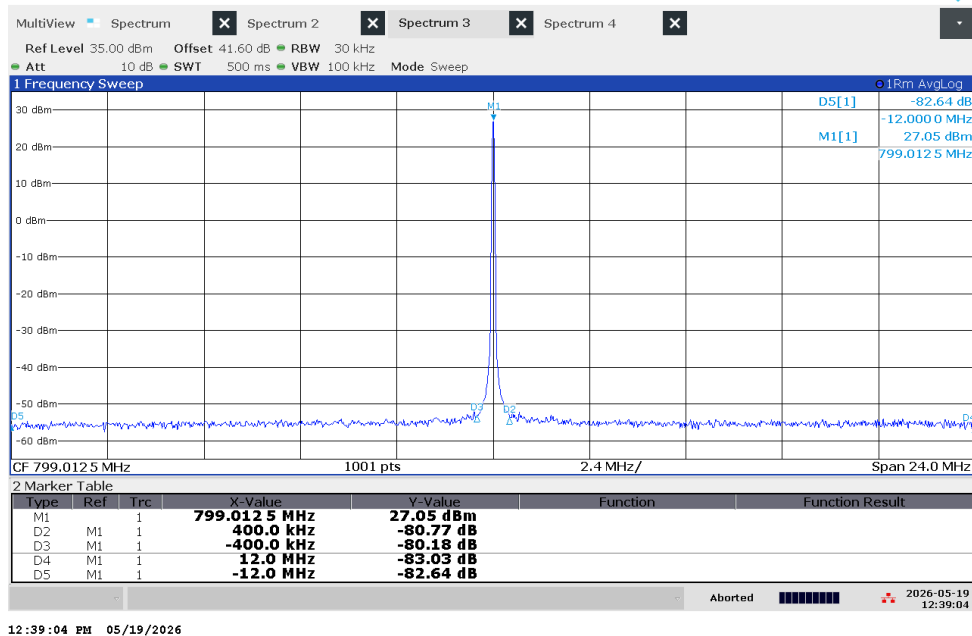
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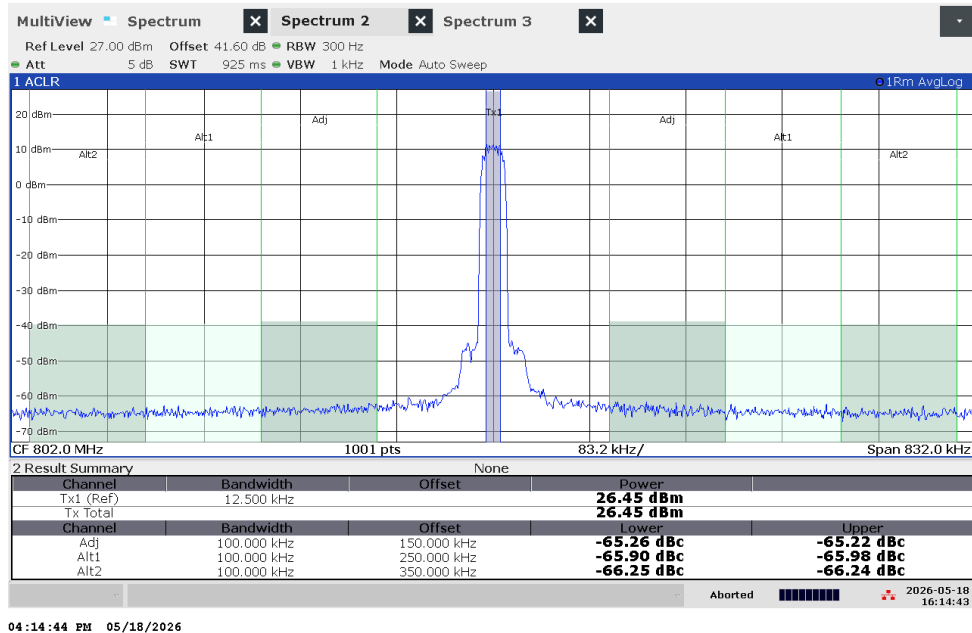
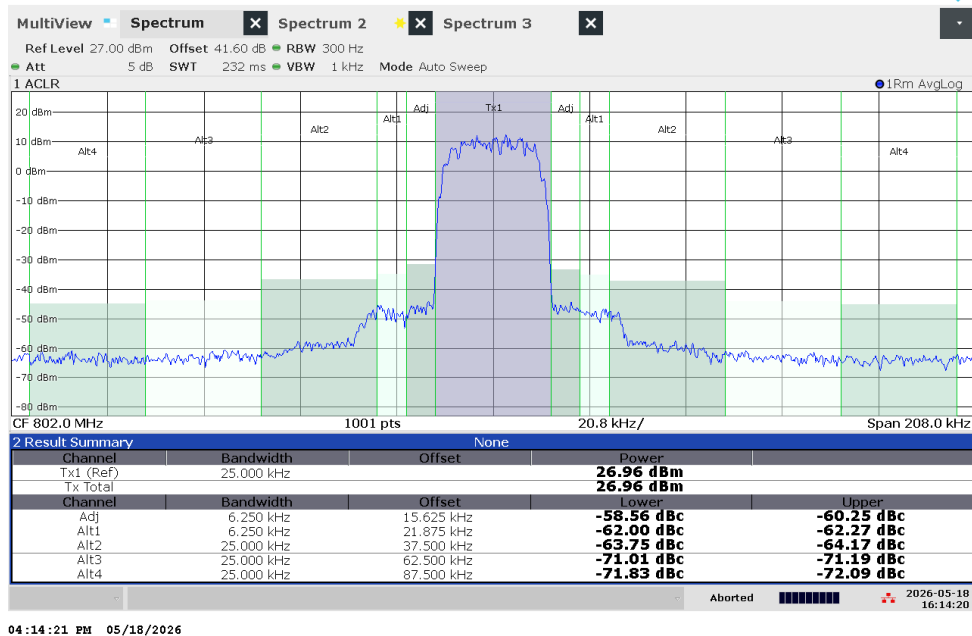
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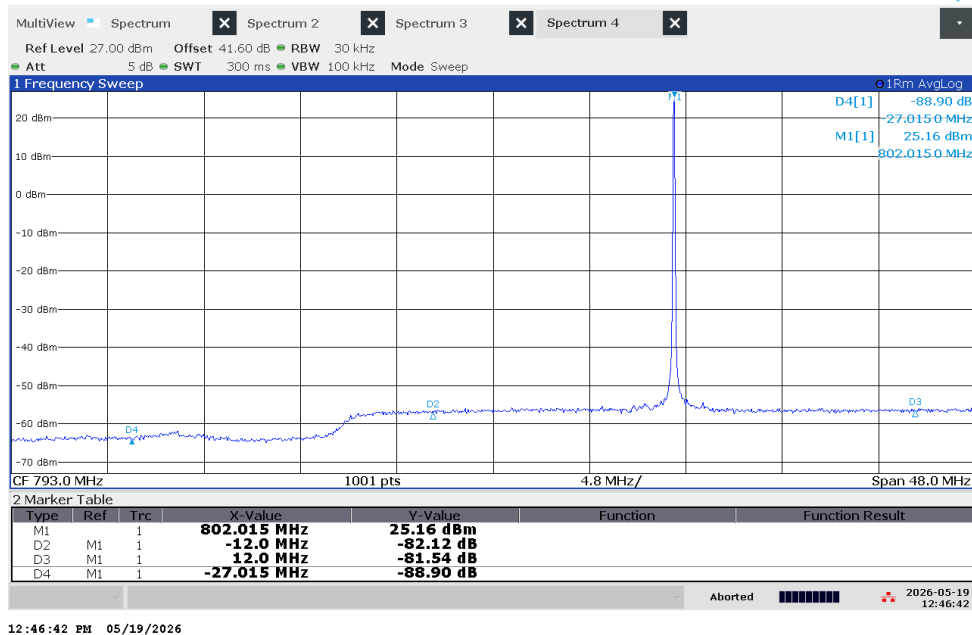
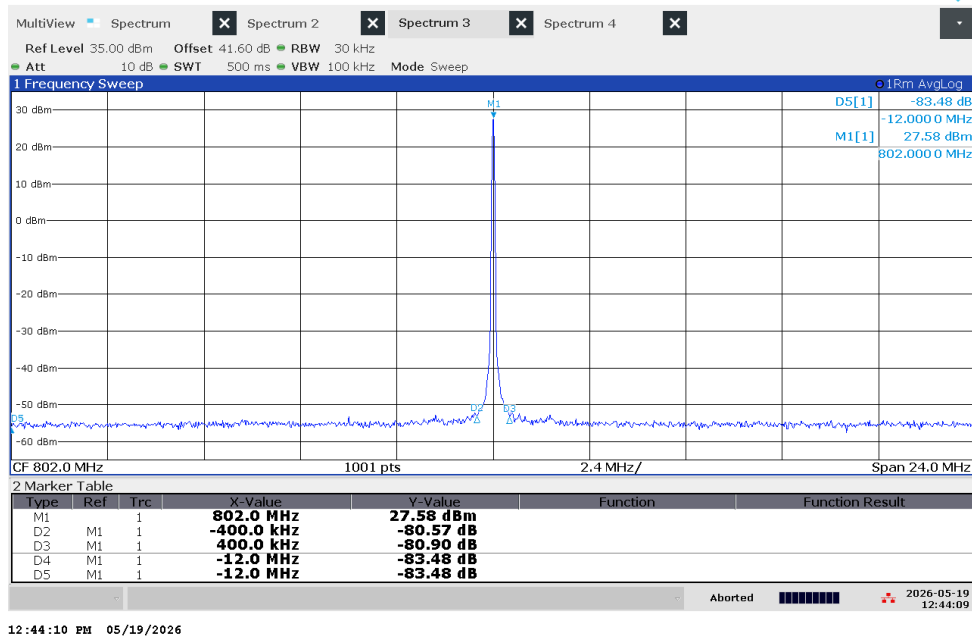
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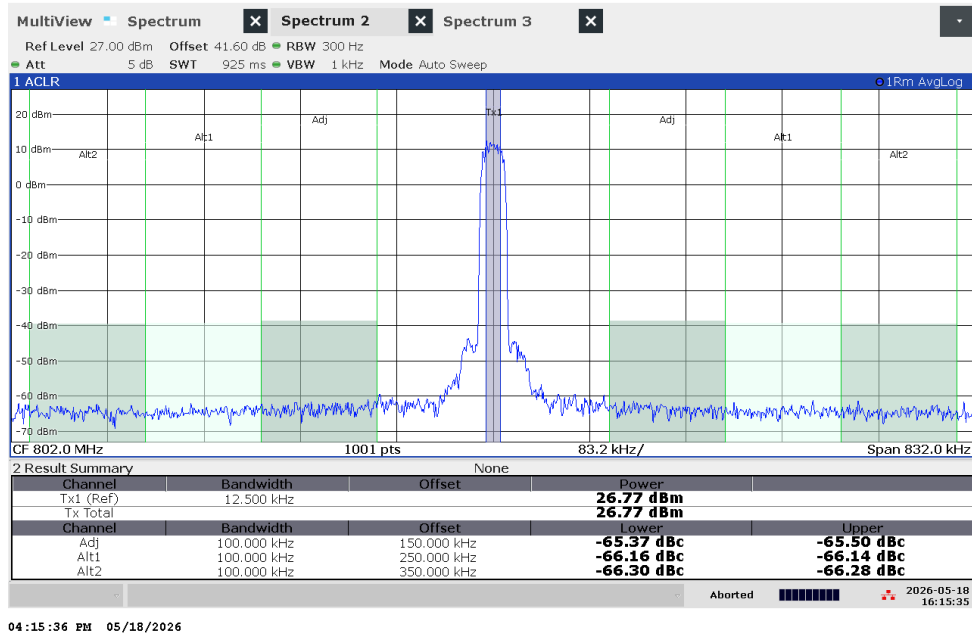
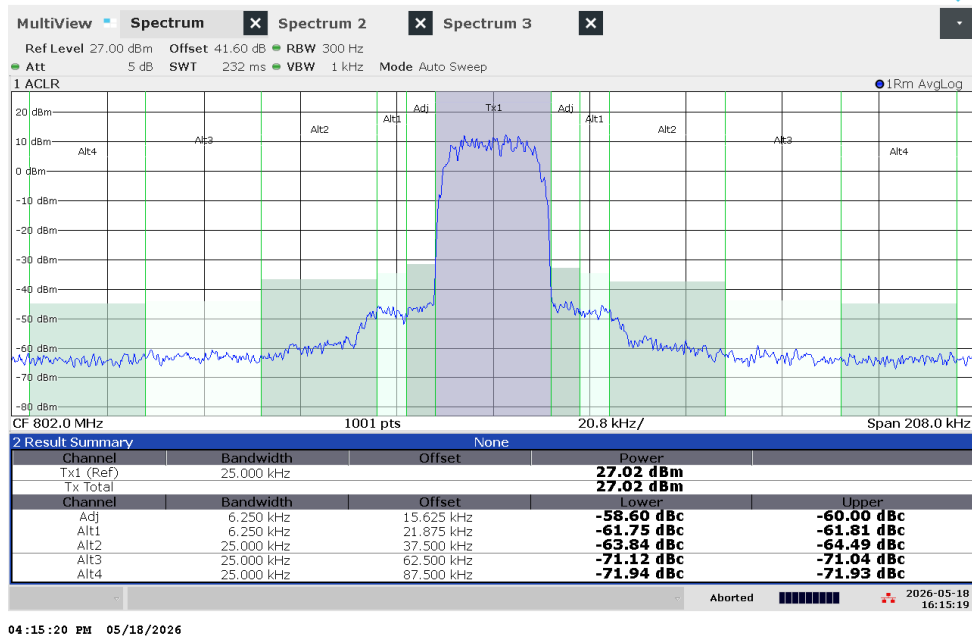
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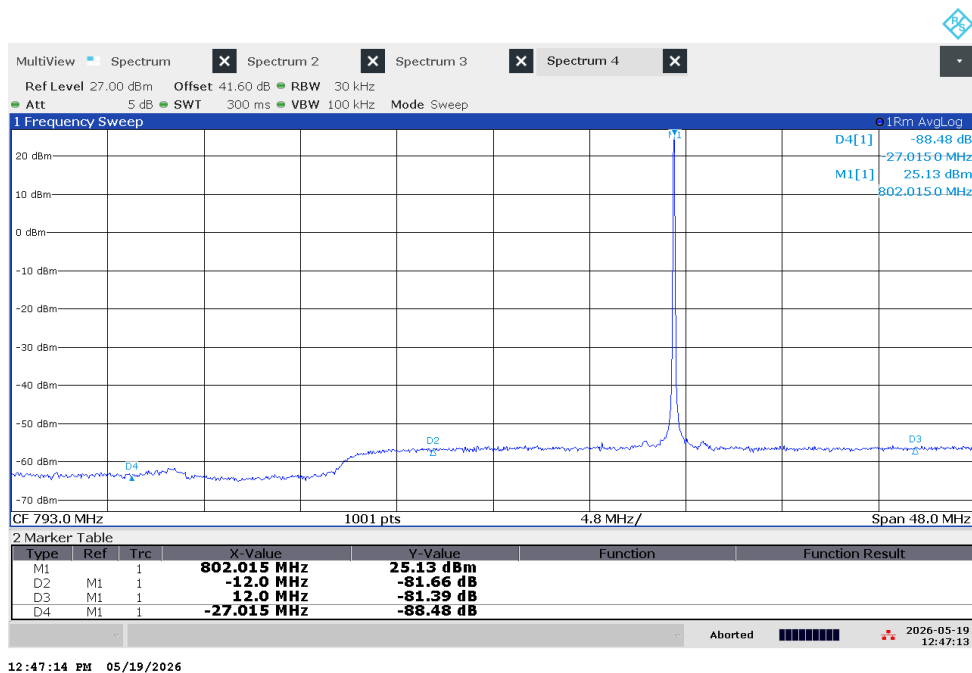
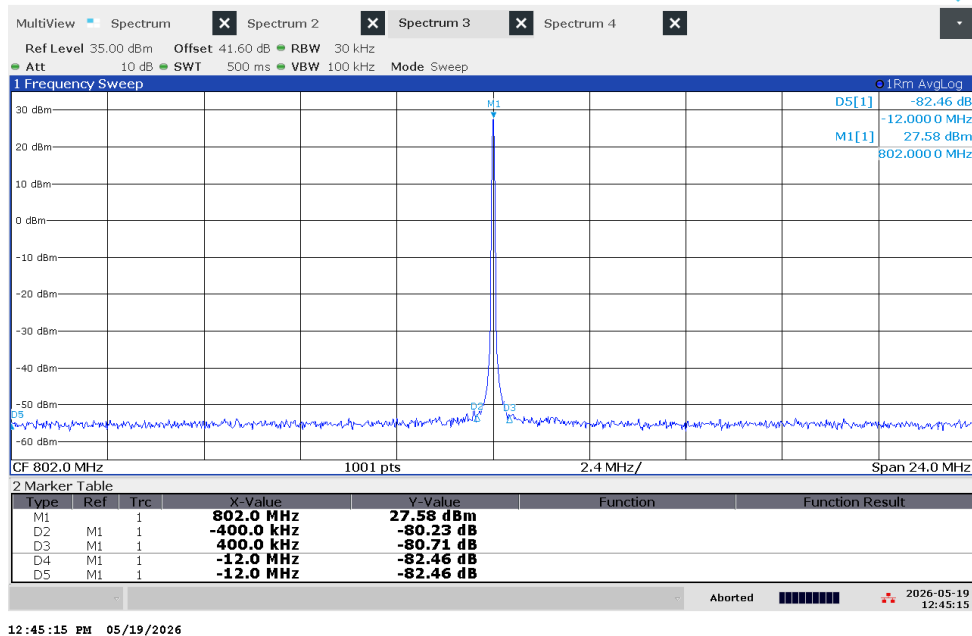
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UL_TETRA_MCH_3dB above AGC



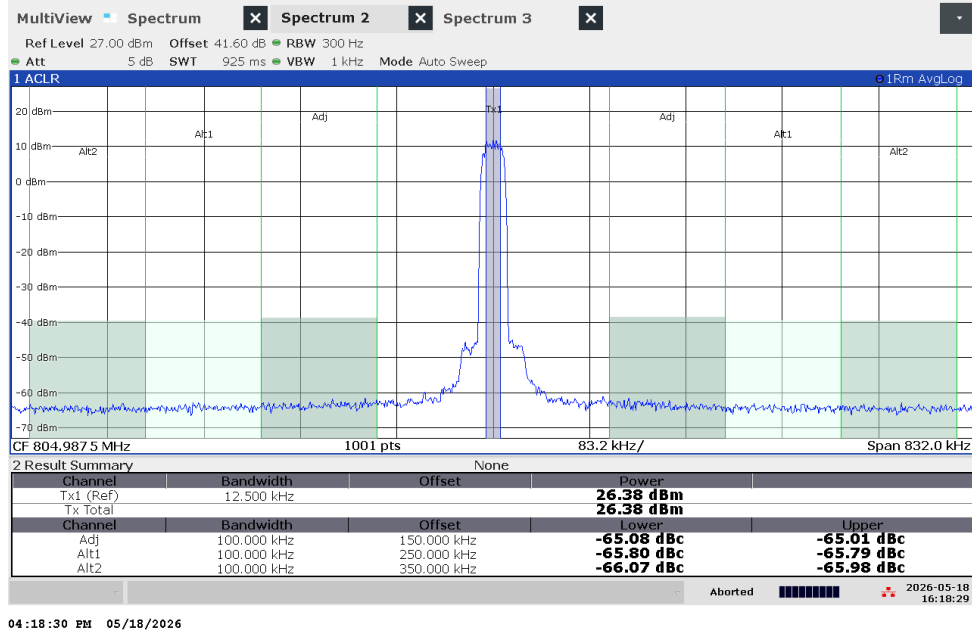
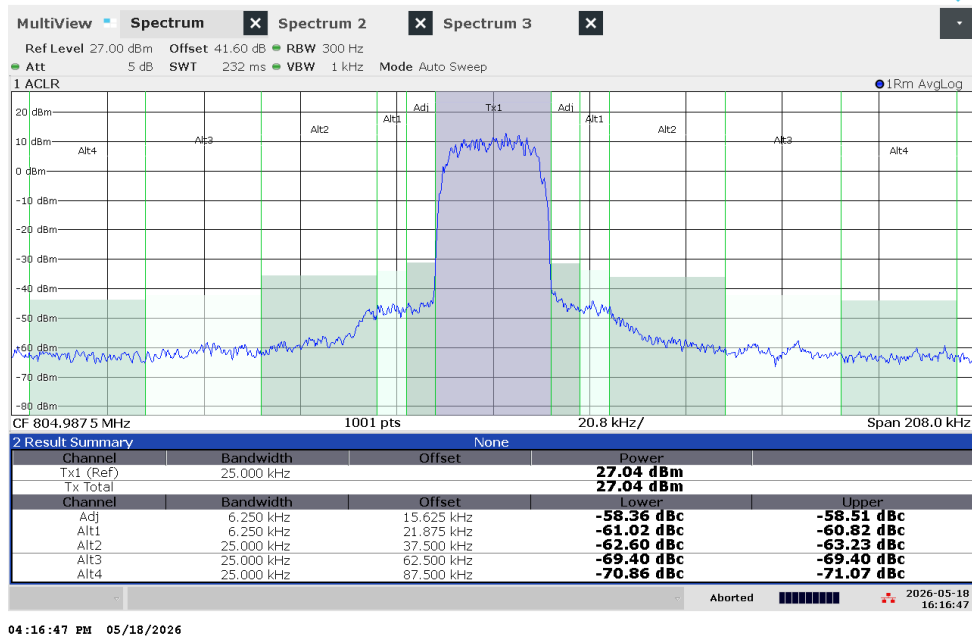
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UL_TETRA_MCH_3dB above AGC



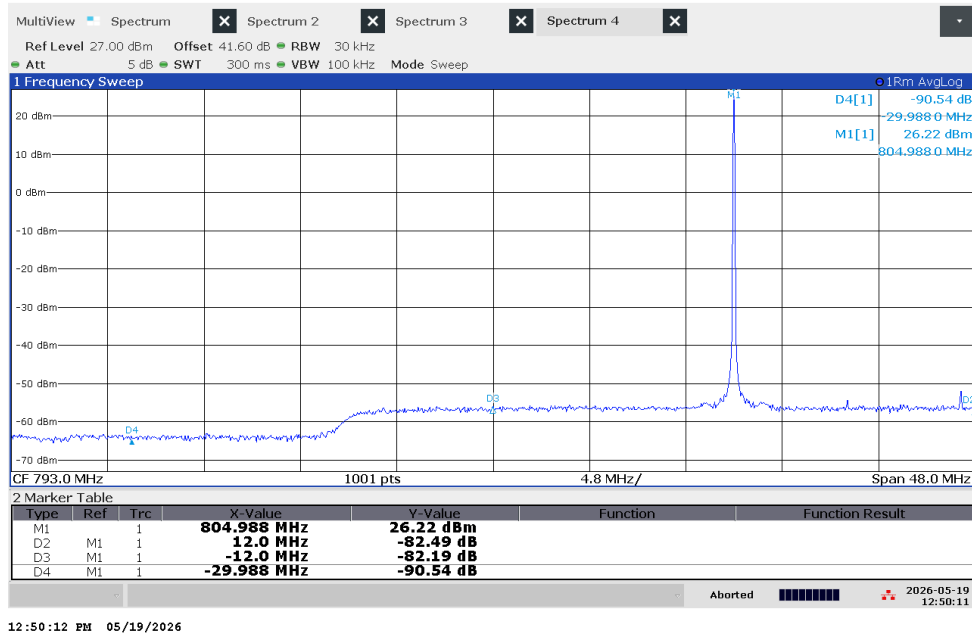
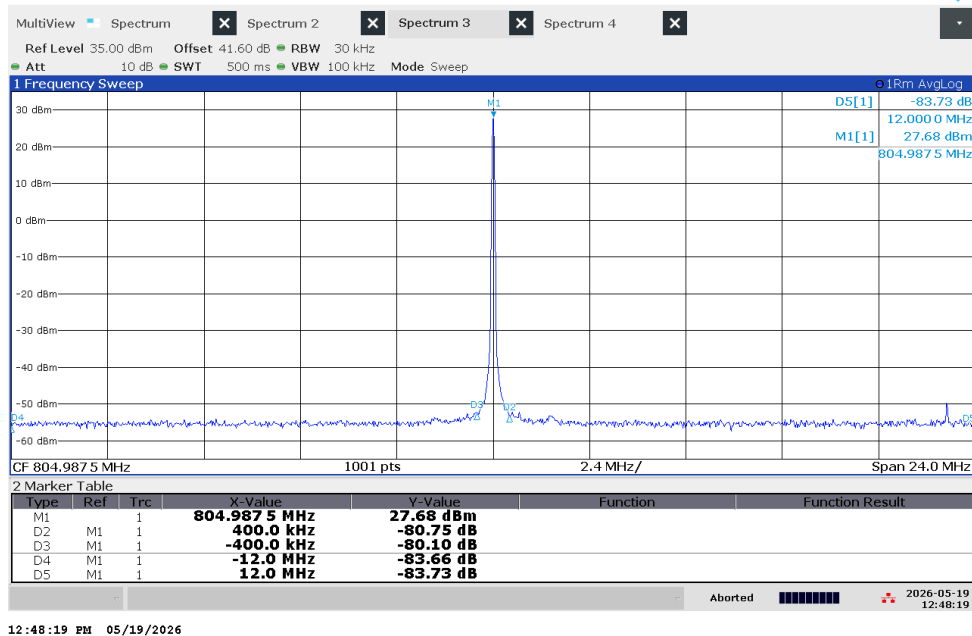
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UL_TETRA_HCH_Pre-AGC



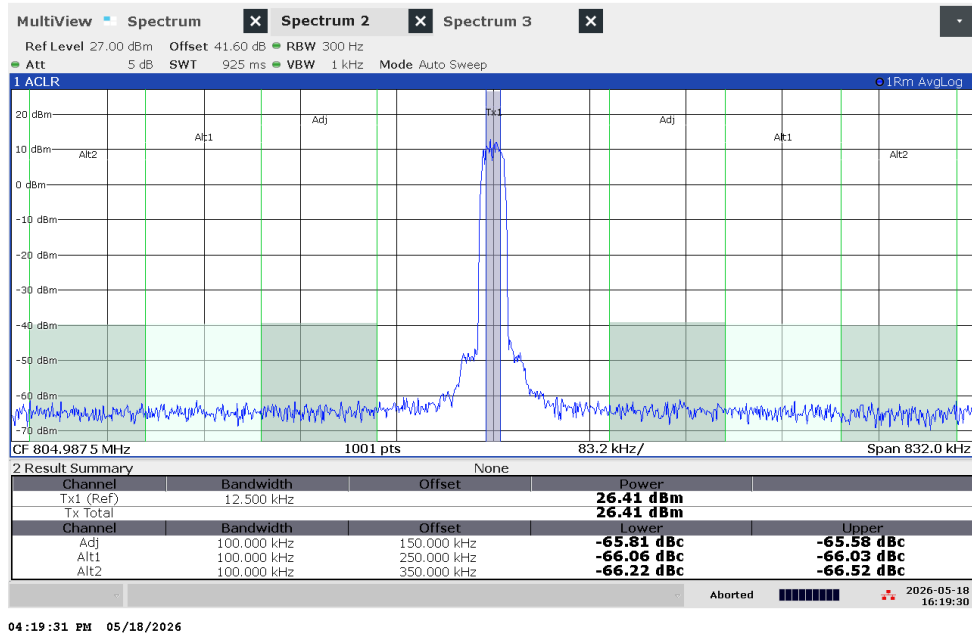
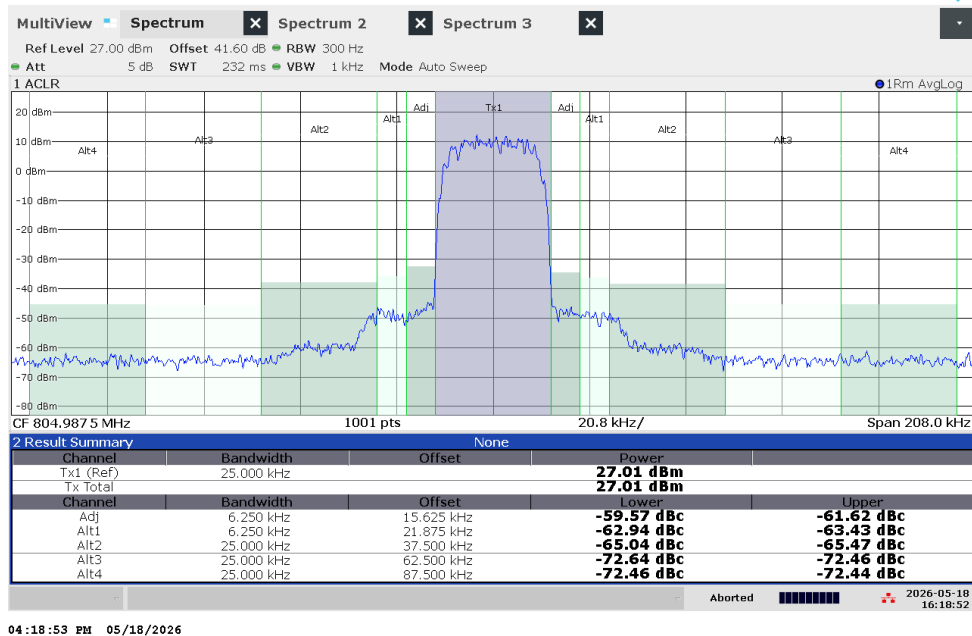
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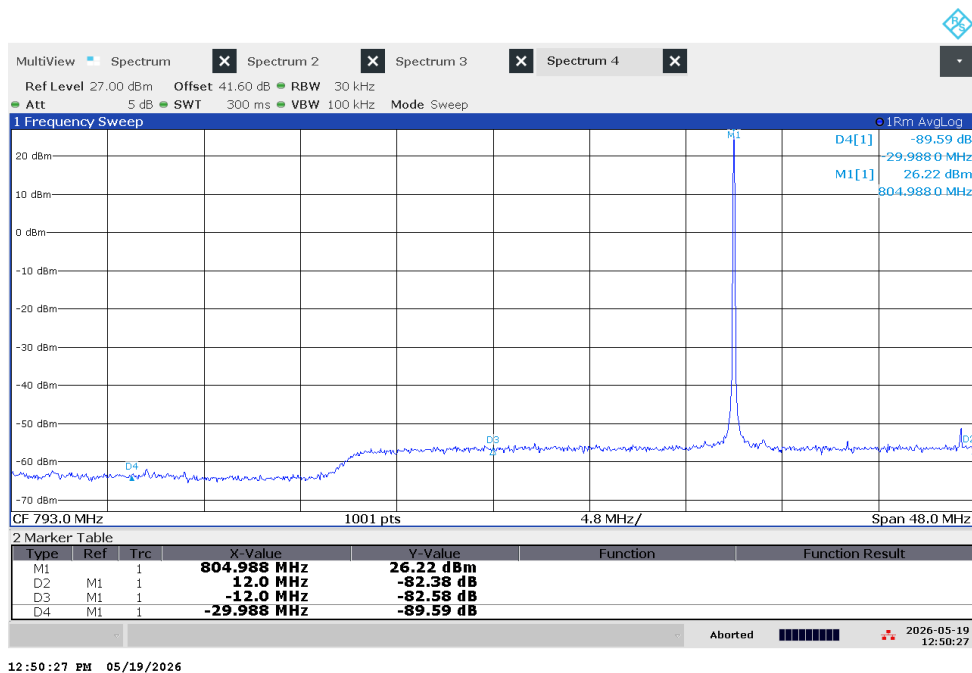
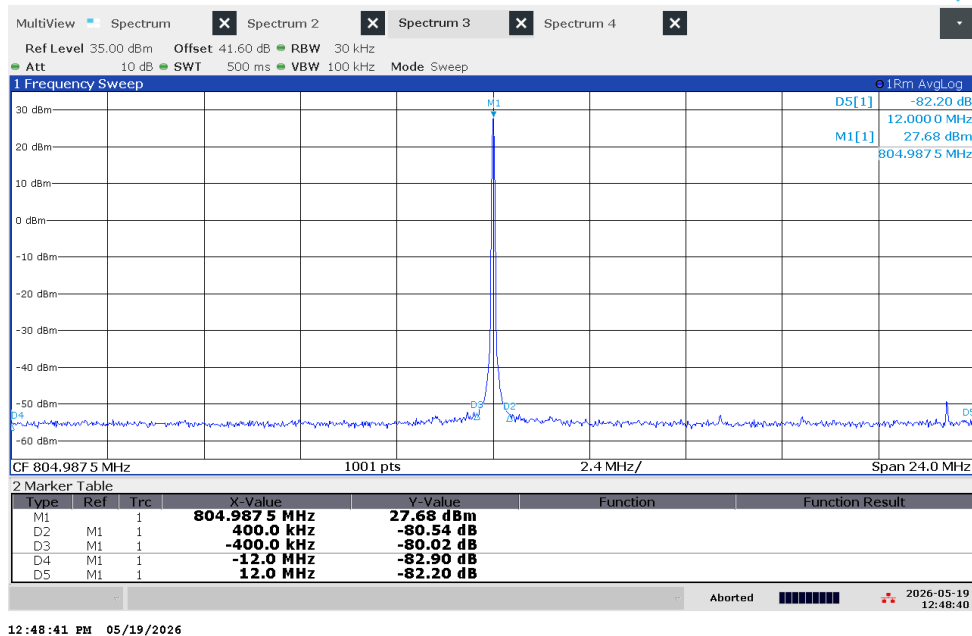
ACP

UL_TETRA_HCH_3dB above AGC



ACP

UL_TETRA_HCH_3dB above AGC





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EMC-ARF-05 Rev 1.1

Page: 221 of 250

6 Noise Figure

Noise Figure			
Test path	Noise figure (dB)	Limit (dB)	Verdict
DL	6.46	≤9	PASS
UL	6.09	≤9	PASS



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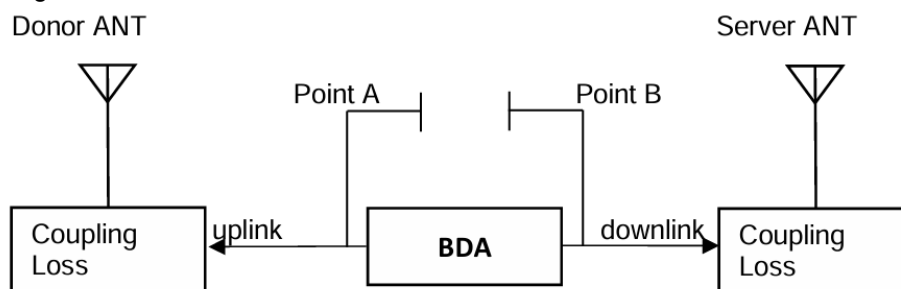
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7 Intermodulation emissions

Intermodulation								
Test path	f0 (MHz)	CW signal spacing (kHz)	Signal level	Worst conducted test level (dBm/300Hz)	Antenna Gain (dBi)	Coupling loss (dB)	ERP (dBm/10k Hz)	Limit (dBm/10k Hz)
DL	769.4	6.25	Pre-AGC	-20.84	0	64.85	-72.61	-30
			3dB above AGC	-21.41	0	64.85	-73.18	-30
		12.5	Pre-AGC	-20.09	0	64.85	-71.86	-30
			3dB above AGC	-20.18	0	64.85	-71.95	-30
		25	Pre-AGC	-25.43	0	64.85	-77.20	-30
			3dB above AGC	-22.97	0	64.85	-74.74	-30

Remark:

- f0 is from Out-of-band Rejection test in the report.
- As part of the system commissioning process, professional Industrial Booster installers and field technicians measure intermodulation products and noise levels by connecting a spectrum analyzer to the output of the enhancers in the field. Since each deployment involves a unique passive distribution network, technicians are required to access the Effective Radiated Power (ERP) at the antenna by factoring in losses from passive components such as attenuators, coaxial cables, couplers and filters. Necessary adjustments are made to ensure compliance with the regulatory limits outlined below. Setting details were declared by manufacture and stated in the user manual. Therefore, the Coupling loss in engineering practice must be greater than 64.85dB to eliminate the interference.



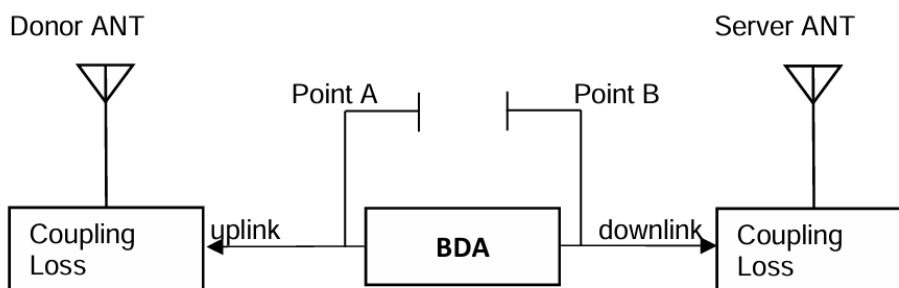
- According to the declaration from the manufacture, the single Antenna gain should not exceed 0dBi.
- $ERP_{final} = \text{Conducted Power} + 10 \cdot \log(10\text{kHz}/300\text{Hz}) + \text{Antenna Gain} - 2.15\text{dB} - \text{Coupling Loss}$.
- The test plots are only to record the case without engineering practice for reference.



Intermodulation								
Test path	f0 (MHz)	CW signal spacing (kHz)	Signal level	Worst conducted test level (dBm/300Hz)	Antenna Gain (dBi)	Coupling loss (dB)	ERP (dBm/10k Hz)	Limit (dBm/10k Hz)
UL	803.5	6.25	Pre-AGC	-22.85	0	54.85	-64.62	-30
			3dB above AGC	-22.36	0	54.85	-64.13	-30
		12.5	Pre-AGC	-22.01	0	54.85	-63.78	-30
			3dB above AGC	-22.36	0	54.85	-64.13	-30
		25	Pre-AGC	-33.82	0	54.85	-75.59	-30
			3dB above AGC	-32.98	0	54.85	-74.75	-30

Remark:

- f0 is from Out-of-band Rejection test in the report.
- As part of the system commissioning process, processional Zone Enhancer installers and field technicians measure intermodulation products and noise levels by connecting a spectrum analyzer to the output of the enhancers in the field. Since each deployment involves a unique passive distribution network, technicians are required to access the Effective Radiated Power (ERP) at the antenna by factoring in losses from passive components such as attenuators, coaxial cables, couplers and filters. Necessary adjustments are made to ensure compliance with the regulatory limits outlined below. Setting details were declared by manufacture and stated in the user manual. Therefore, the Coupling loss in engineering practice must be greater than 54.85dB to eliminate the interference.

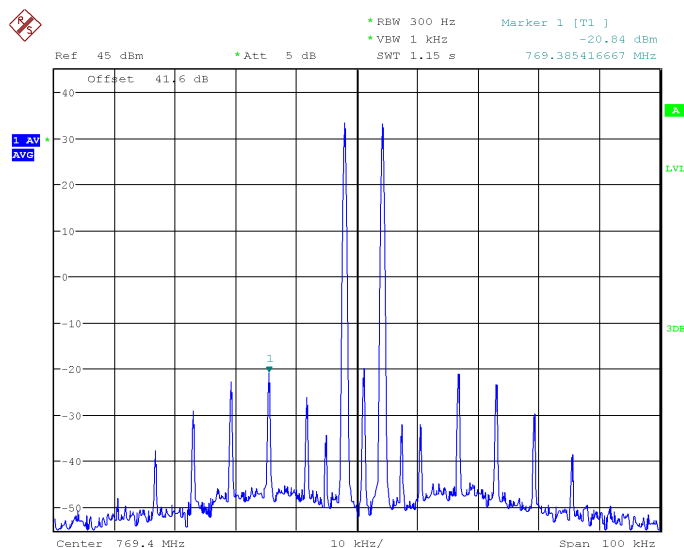


- According to the declaration from the manufacture, the single Antenna gain should not exceed 0dBi.
- $ERP_{final} = \text{Conducted Power} + 10 \cdot \log(10\text{kHz}/300\text{Hz}) + \text{Antenna Gain} - 2.15\text{dB} - \text{Coupling Loss}$.
- The test plots are only to record the case without engineering practice for reference.



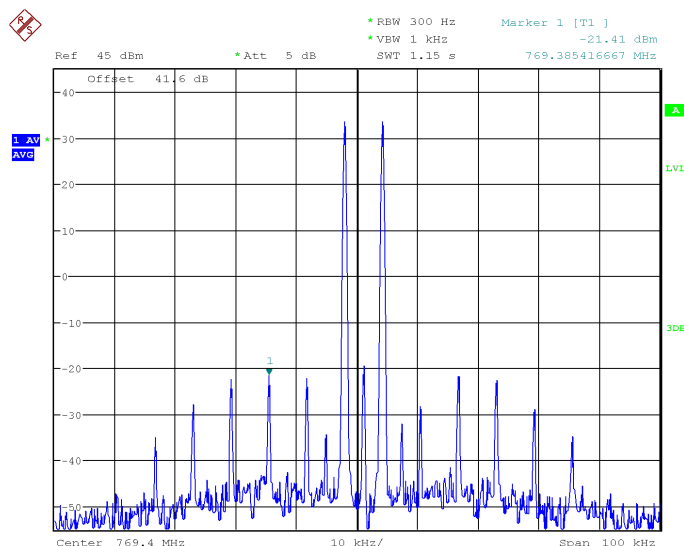
Intermodulation

DL_6.25kHz_Pre-AGC



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DL_6.25kHz_3dB above AGC

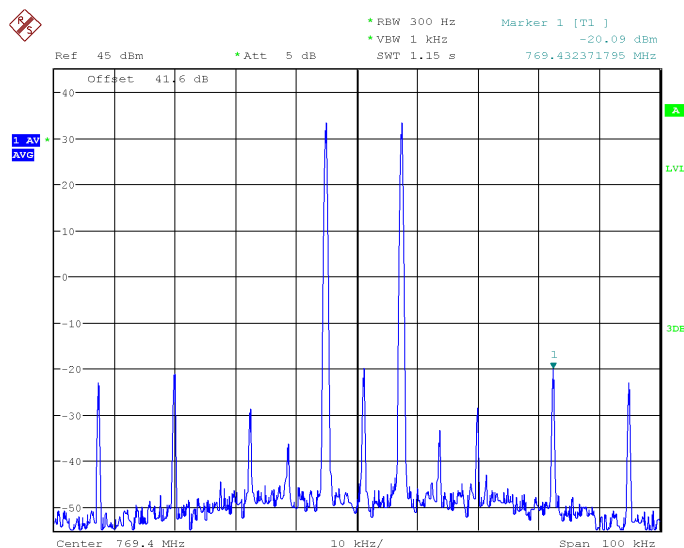


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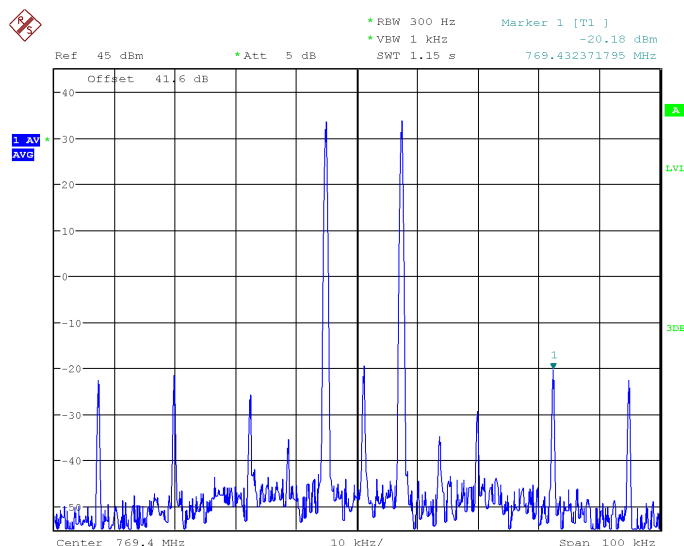
Intermodulation

DL_12.5kHz_Pre-AGC



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DL_12.5kHz_3dB above AGC



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Date: 13.APR.2026 16:32:44



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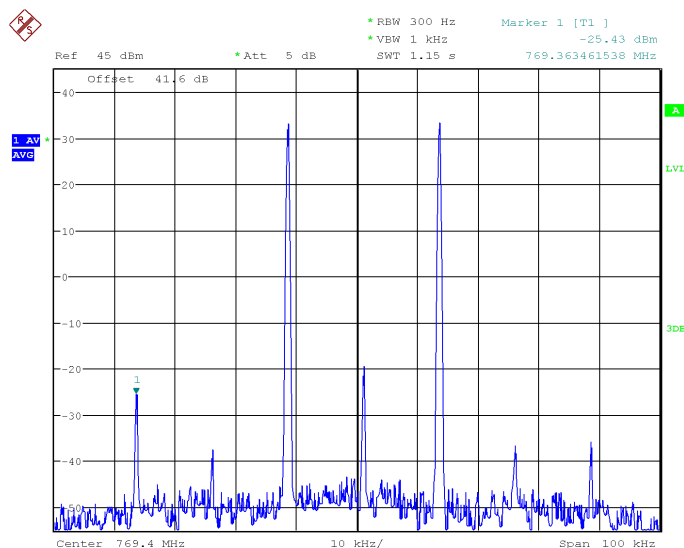
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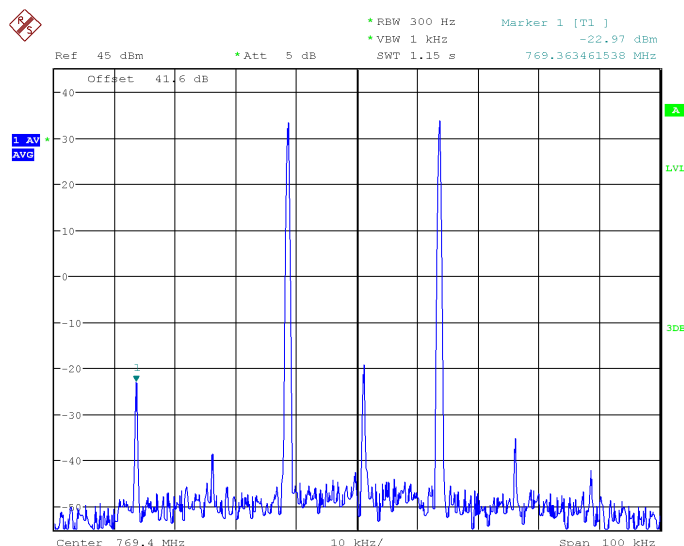
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DL_25kHz_Pre-AGC



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DL_25kHz_3dB above AGC

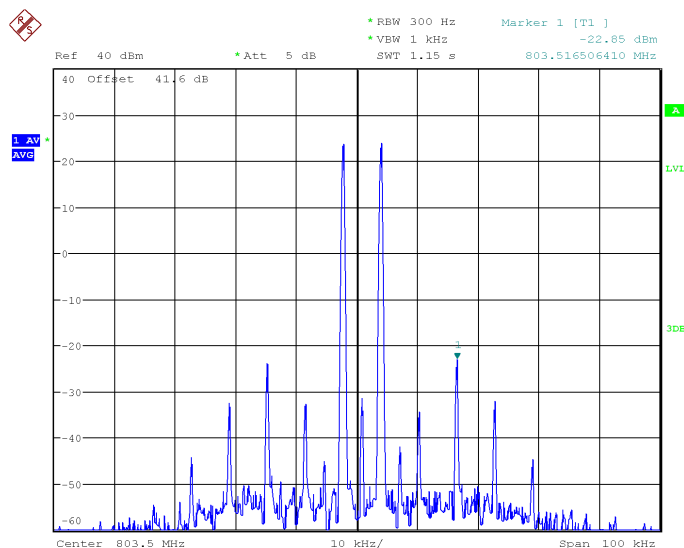


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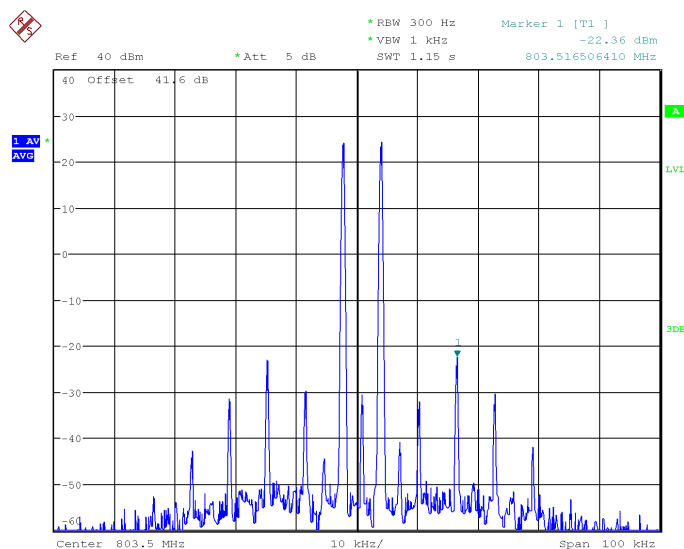
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UL_6.25kHz_Pre-AGC



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UL_6.25kHz_3dB above AGC

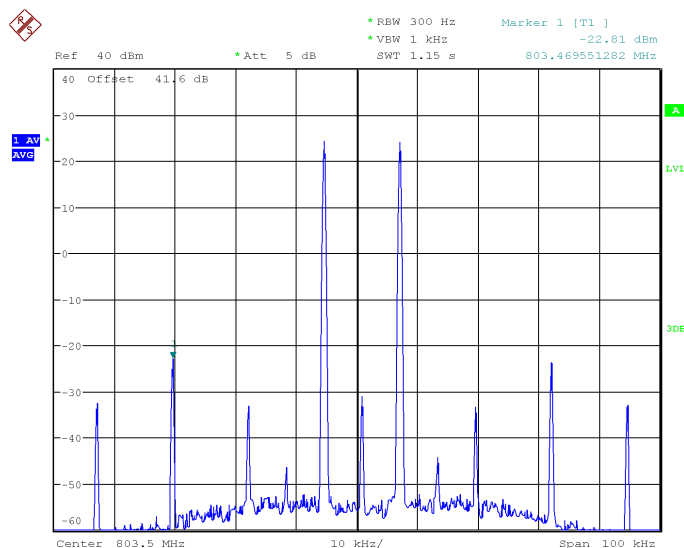


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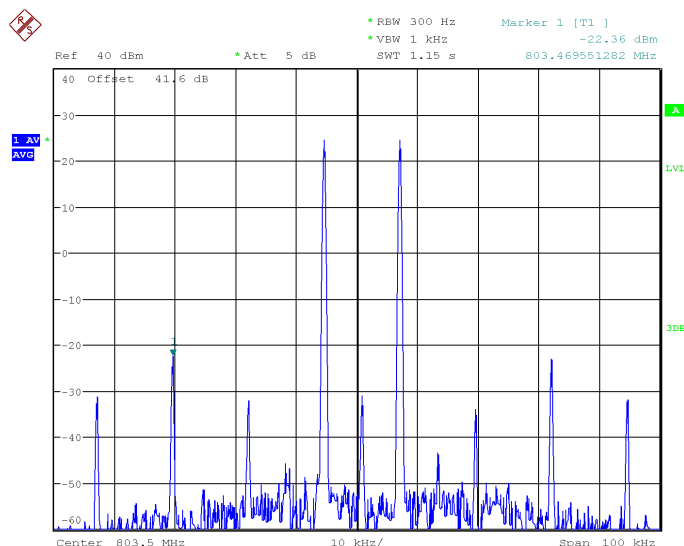
Intermodulation

UL_12.5kHz_Pre-AGC



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UL_12.5kHz_3dB above AGC

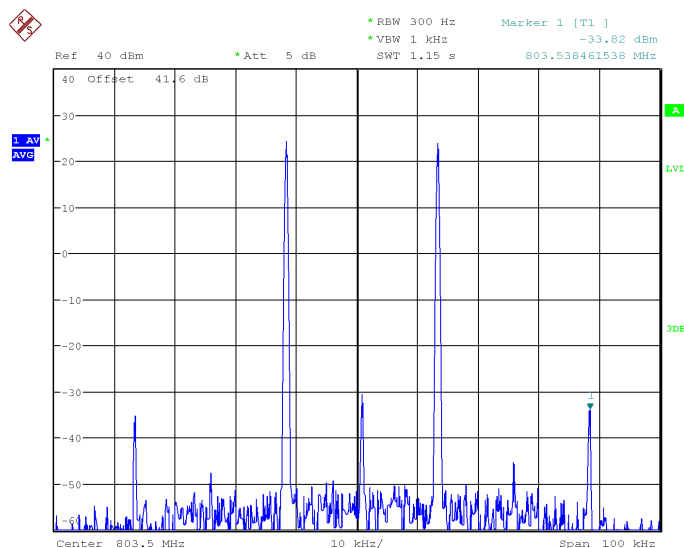


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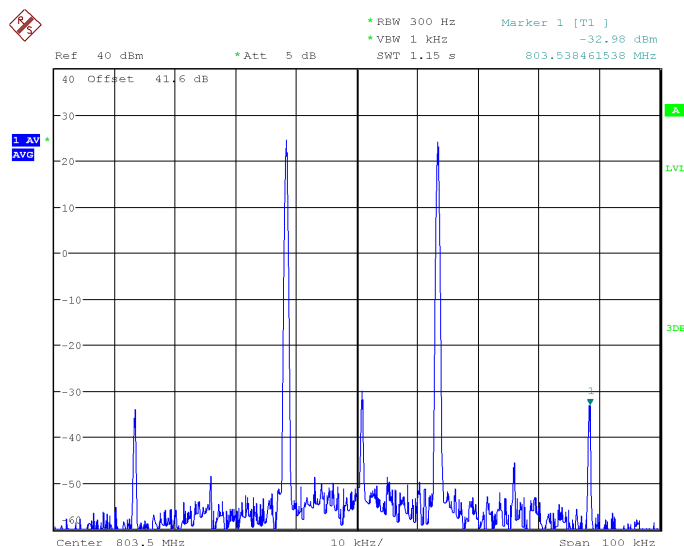
Intermodulation

UL_25kHz_Pre-AGC



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UL_25kHz_3dB above AGC



B
Date: 14.APR.2026 10:20:18





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EMC-ARF-05 Rev 1.1

Page: 230 of 250

8 Conducted Spurious emissions

Conducted Spurious emissions						
Test path	Test signal	Test channel	Frequency range (MHz)	Worst test level (dBm)	Limit (dBm)	Verdict
DL	CW	MCH	0.009-1000	-25.34	≤-13	PASS
			1000-7750	-22.27	≤-13	PASS
UL	CW	MCH	0.009-1000	-24.80	≤-13	PASS
			1000-8050	-21.06	≤-13	PASS
Remark: The conducted spurious emissions 9kHz to 30MHz were very low and not displaved test plots in this report.						



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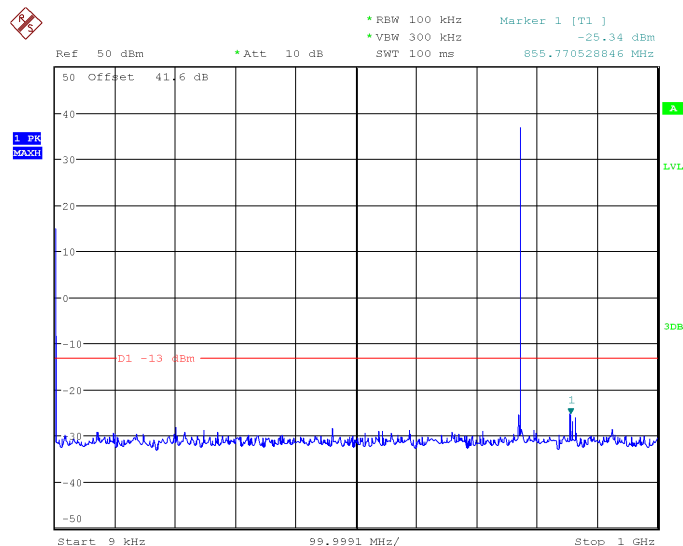
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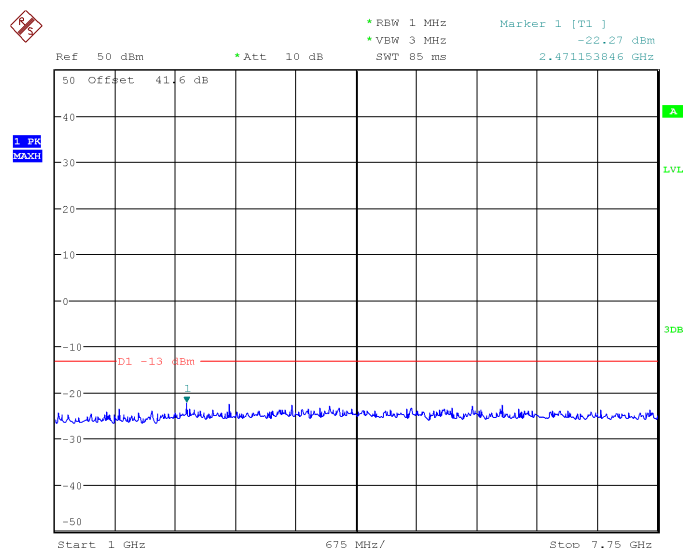
Page: 231 of 250

Conducted Spurious emissions

DL_CW_MCH



B
Date: 8.APR.2026 14:29:27



B
Date: 8.APR.2026 14:30:06



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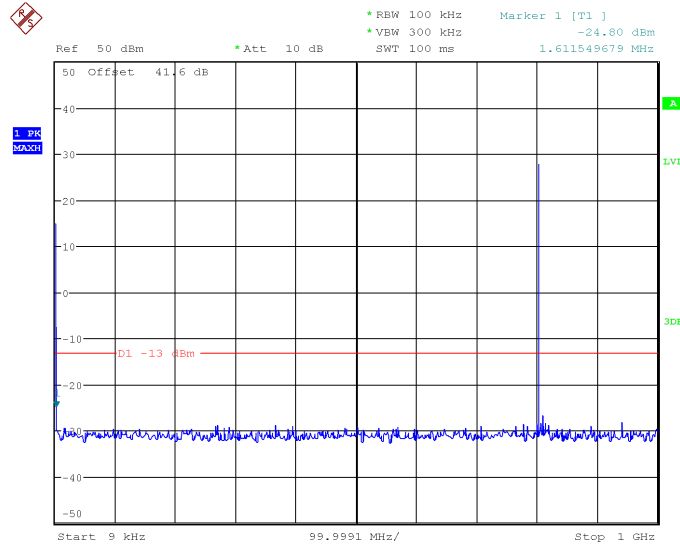
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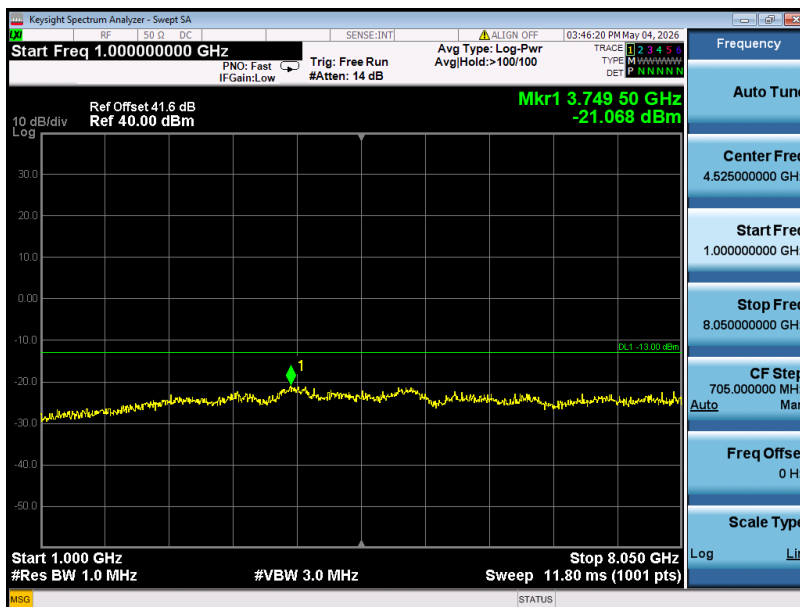
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Conducted Spurious emissions

UL_CW_MCH



B
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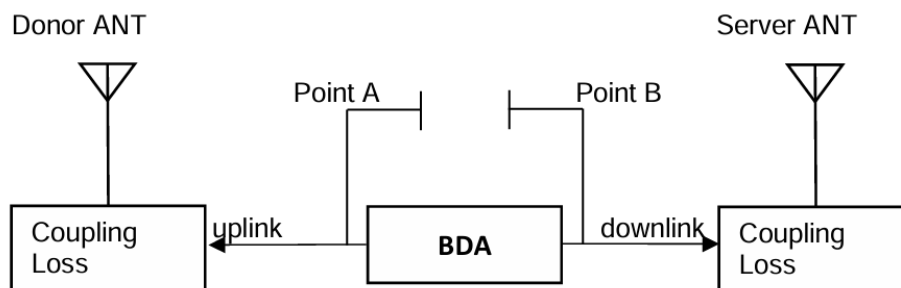


9 Noise

Noise						
Noise within the passband						
Test path	Frequency range (MHz)	Worst conducted test level (dBm/10kHz)	Antenna Gain (dBi)	Coupling loss (dB)	ERP (dBm/10kHz)	Limit (dBm/10kHz)
DL	769-775	-32.39	0	64.85	-84.16	-43
Noise outside of the passband						
Test path	Frequency range (MHz)	Worst conducted test level (dBm/10kHz)	Antenna Gain (dBi)	Coupling loss (dB)	ERP (dBm/10kHz)	Limit (dBm/10kHz)
DL	0.009-768	-48.75	0	64.85	-100.52	-70
	776-7750	-30.26	0	64.85	-82.03	-70

Remark:

- As part of the system commissioning process, processional Zone Enhancer installers and field technicians measure intermodulation products and noise levels by connecting a spectrum analyzer to the output of the enhancers in the field. Since each deployment involves a unique passive distribution network, technicians are required to access the Effective Radiated Power (ERP) at the antenna by factoring in losses from passive components such as attenuators, coaxial cables, couplers and filters. Necessary adjustments are made to ensure compliance with the regulatory limits outlined below. Setting details were declared by manufacture and stated in the user manual. Therefore, the Coupling loss in engineering practice must be greater than 64.85dB to eliminate the interference.



- According to the declaration from the manufacture, the single Antenna gain should not exceed 0dBi.
- $ERP_{final} = \text{Conducted Power} + \text{Antenna Gain} - 2.15\text{dB} - \text{Coupling Loss}$.
- The test plots are only to record the case without engineering practice for reference.



Noise						
Noise within the passband						
Test path	Frequency range (MHz)	Worst conducted test level (dBm/10kHz)	Antenna Gain (dBi)	Coupling loss (dB)	ERP (dBm/10kHz)	Limit (dBm/10kHz)
UL	799-805	-31.56	0	54.85	-73.33	-43
Noise outside of the passband						
Test path	Frequency range (MHz)	Worst conducted test level (dBm/10kHz)	Antenna Gain (dBi)	Coupling loss (dB)	ERP (dBm/10kHz)	Limit (dBm/10kHz)
UL	0.009-798	-56.16	0	54.85	-97.93	-70
	806-8050	-34.72	0	54.85	-76.49	-70

Remark:

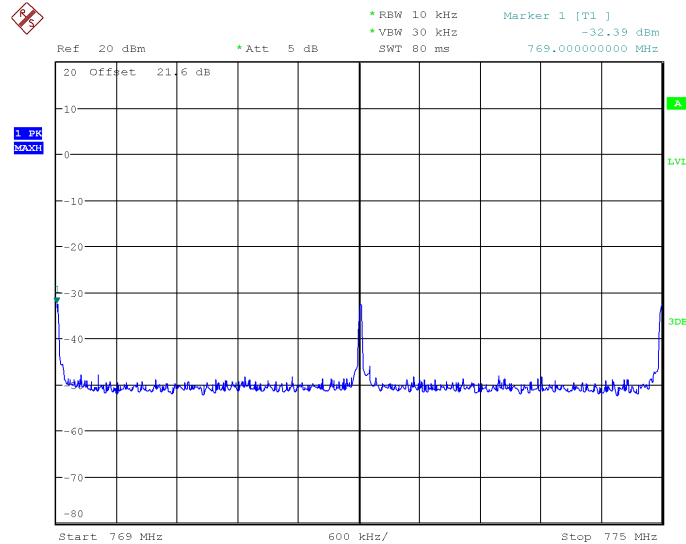
- As part of the system commissioning process, processional Zone Enhancer installers and field technicians measure intermodulation products and noise levels by connecting a spectrum analyzer to the output of the enhancers in the field. Since each deployment involves a unique passive distribution network, technicians are required to access the Effective Radiated Power (ERP) at the antenna by factoring in losses from passive components such as attenuators, coaxial cables, couplers and filters. Necessary adjustments are made to ensure compliance with the regulatory limits outlined below. Setting details were declared by manufacture and stated in the user manual. Therefore, the Coupling loss in engineering practice must be greater than 54.85dB to eliminate the interference.

- According to the declaration from the manufacture, the single Antenna gain should not exceed 0dBi.
- $ERP_{final} = \text{Conducted Power} + \text{Antenna Gain} - 2.15\text{dB} - \text{Coupling Loss}$.
- The test plots are only to record the case without engineering practice for reference.



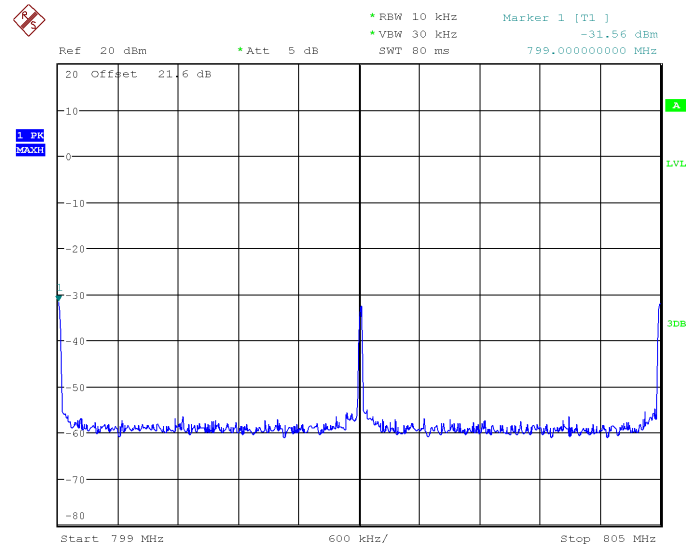
Noise within the passband

DL



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UL



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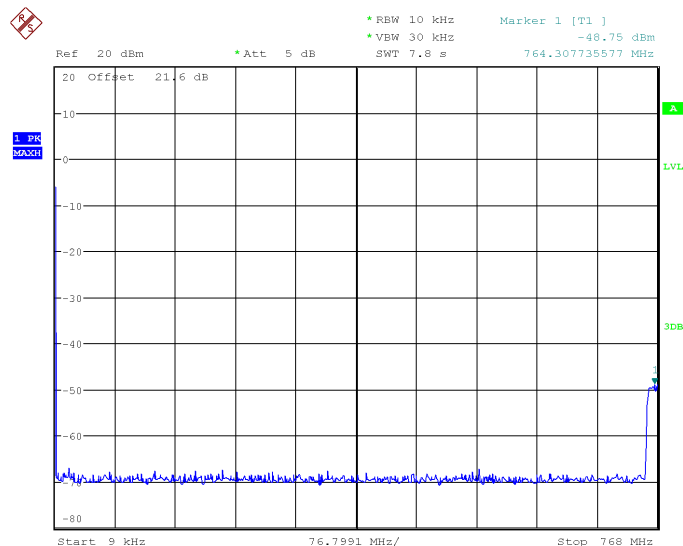
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EMC-ARF-05 Rev 1.1

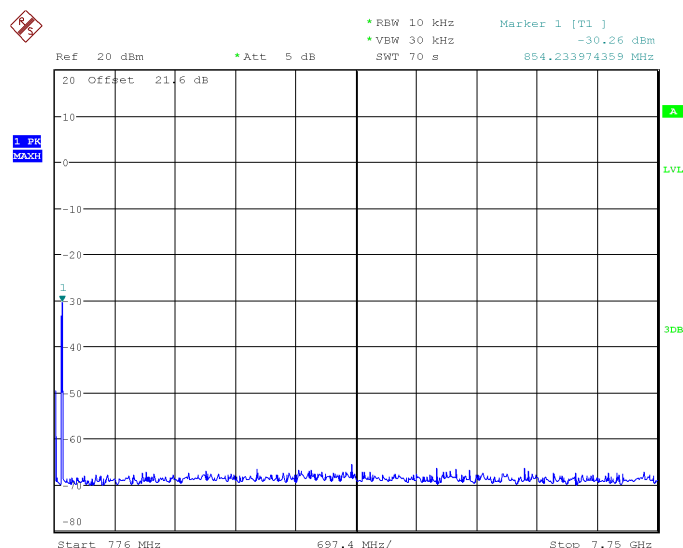
Page: 236 of 250

Noise outside the passband

DL



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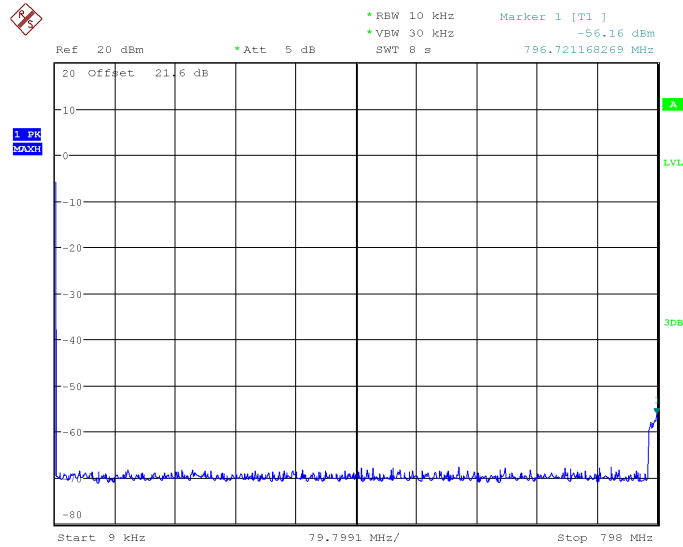
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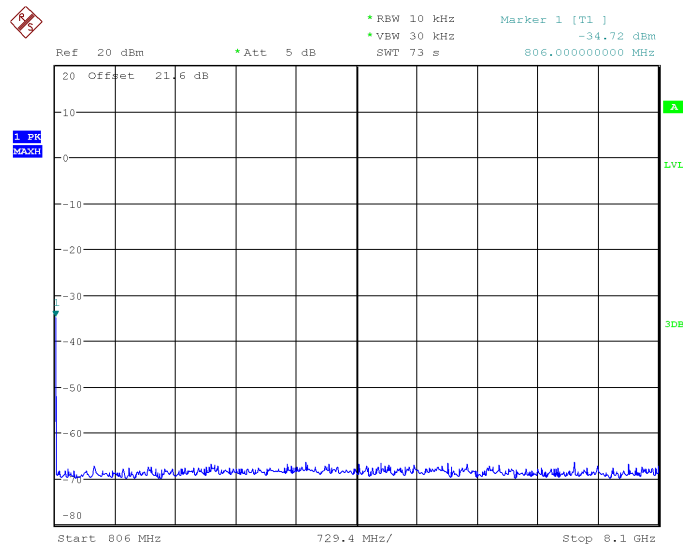
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Noise outside the passband

UL



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10 Frequency Stability

Frequency stability vs voltage							
Test path	Test Signal	Test Channel	Temperature	Voltage	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	FM	MCH	TN	VL	1.2	0.00155	PASS
			TN	VH	2.1	0.00272	PASS
	DMR	MCH	TN	VL	1.1	0.00142	PASS
			TN	VH	1.6	0.00207	PASS
	C4FM	MCH	TN	VL	3.3	0.00427	PASS
			TN	VH	2.4	0.00311	PASS
	H-DQPSK	MCH	TN	VL	1.7	0.00220	PASS
			TN	VH	3.0	0.00389	PASS
	TETRA	MCH	TN	VL	3.0	0.00389	PASS
			TN	VH	3.2	0.00415	PASS
UL	FM	MCH	TN	VL	2.3	0.00287	PASS
			TN	VH	2.6	0.00324	PASS
	DMR	MCH	TN	VL	3.0	0.00374	PASS
			TN	VH	2.2	0.00274	PASS
	C4FM	MCH	TN	VL	1.6	0.00200	PASS
			TN	VH	1.9	0.00237	PASS
	H-DQPSK	MCH	TN	VL	2.9	0.00362	PASS
			TN	VH	1.8	0.00224	PASS
	TETRA	MCH	TN	VL	2.6	0.00324	PASS
			TN	VH	2.3	0.00287	PASS



Frequency stability vs temperature							
Test Path	Test Signal	Test Channel	Voltage	Temperature (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	FM	MCH	VN	+50	2.0	0.00259	PASS
			VN	+40	2.1	0.00272	PASS
			VN	+30	1.4	0.00181	PASS
			VN	+20	1.7	0.00220	PASS
			VN	+10	1.6	0.00207	PASS
			VN	0	1.6	0.00207	PASS
			VN	-10	1.8	0.00233	PASS
			VN	-20	1.5	0.00194	PASS
			VN	-30	1.9	0.00246	PASS
	DMR	MCH	VN	+50	1.6	0.00207	PASS
			VN	+40	1.4	0.00181	PASS
			VN	+30	1.2	0.00155	PASS
			VN	+20	1.9	0.00246	PASS
			VN	+10	1.7	0.00220	PASS
			VN	0	1.6	0.00207	PASS
			VN	-10	1.2	0.00155	PASS
			VN	-20	1.8	0.00233	PASS
			VN	-30	2.0	0.00259	PASS
	C4FM	MCH	VN	+50	2.1	0.00272	PASS
			VN	+40	1.1	0.00142	PASS
			VN	+30	1.6	0.00207	PASS
			VN	+20	1.7	0.00220	PASS
			VN	+10	1.1	0.00142	PASS
			VN	0	1.5	0.00194	PASS
			VN	-10	2.0	0.00259	PASS
			VN	-20	2.1	0.00272	PASS
			VN	-30	1.1	0.00142	PASS



Frequency stability vs temperature							
Test Path	Test Signal	Test Channel	Voltage	Temperature (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	D-HQPSK	MCH	VN	+50	1.5	0.00194	PASS
			VN	+40	1.4	0.00181	PASS
			VN	+30	1.1	0.00142	PASS
			VN	+20	1.7	0.00220	PASS
			VN	+10	1.7	0.00220	PASS
			VN	0	1.5	0.00194	PASS
			VN	-10	1.4	0.00181	PASS
			VN	-20	1.9	0.00246	PASS
			VN	-30	2.1	0.00272	PASS
	TETRA	MCH	VN	+50	1.8	0.00233	PASS
			VN	+40	1.2	0.00155	PASS
			VN	+30	1.7	0.00220	PASS
			VN	+20	1.9	0.00246	PASS
			VN	+10	1.6	0.00207	PASS
			VN	0	1.6	0.00207	PASS
			VN	-10	1.1	0.00142	PASS
			VN	-20	1.4	0.00181	PASS
			VN	-30	1.3	0.00168	PASS
UL	FM	MCH	VN	+50	2.1	0.00262	PASS
			VN	+40	2.0	0.00249	PASS
			VN	+30	1.7	0.00212	PASS
			VN	+20	1.9	0.00237	PASS
			VN	+10	1.3	0.00162	PASS
			VN	0	1.1	0.00137	PASS
			VN	-10	1.5	0.00187	PASS
			VN	-20	1.9	0.00237	PASS
			VN	-30	1.4	0.00175	PASS



Frequency stability vs temperature							
Test Path	Test Signal	Test Channel	Voltage	Temperature (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
UL	DMR	MCH	VN	+50	1.9	0.00237	PASS
			VN	+40	1.7	0.00212	PASS
			VN	+30	1.3	0.00162	PASS
			VN	+20	1.7	0.00212	PASS
			VN	+10	1.4	0.00175	PASS
			VN	0	1.2	0.00150	PASS
			VN	-10	1.5	0.00187	PASS
			VN	-20	1.9	0.00237	PASS
			VN	-30	1.4	0.00175	PASS
	C4FM	MCH	VN	+50	1.4	0.00175	PASS
			VN	+40	2.0	0.00249	PASS
			VN	+30	2.1	0.00262	PASS
			VN	+20	1.3	0.00162	PASS
			VN	+10	1.9	0.00237	PASS
			VN	0	1.4	0.00175	PASS
			VN	-10	1.2	0.00150	PASS
			VN	-20	1.2	0.00150	PASS
			VN	-30	1.3	0.00162	PASS
	D-HQPSK	MCH	VN	+50	1.6	0.00200	PASS
			VN	+40	1.6	0.00200	PASS
			VN	+30	1.4	0.00175	PASS
			VN	+20	1.1	0.00137	PASS
			VN	+10	1.4	0.00175	PASS
			VN	0	1.1	0.00137	PASS
			VN	-10	1.2	0.00150	PASS
			VN	-20	1.8	0.00224	PASS
			VN	-30	2.1	0.00262	PASS



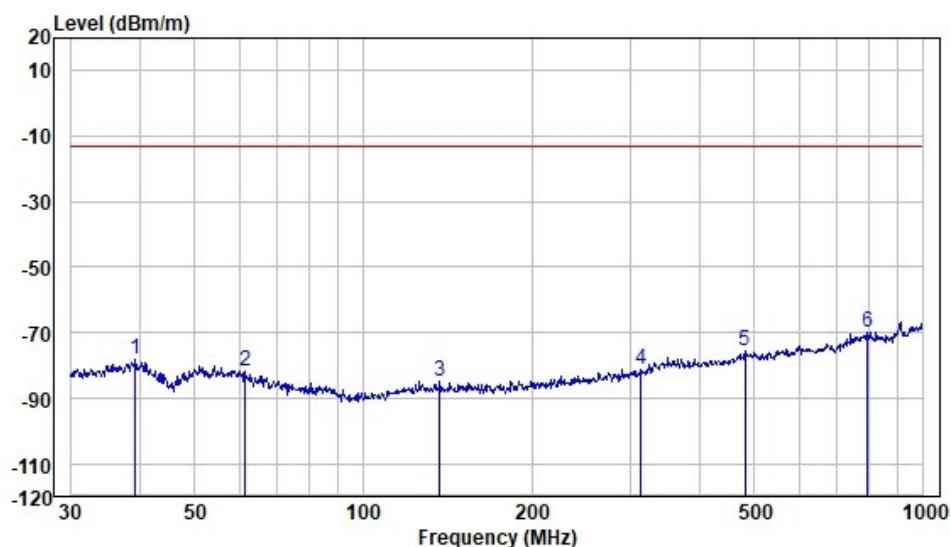
Frequency stability vs temperature							
Test Path	Test Signal	Test Channel	Voltage	Temperature (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
UL	TETRA	MCH	VN	+50	1.2	0.00150	PASS
			VN	+40	1.5	0.00187	PASS
			VN	+30	2.0	0.00249	PASS
			VN	+20	2.1	0.00262	PASS
			VN	+10	1.7	0.00212	PASS
			VN	0	1.1	0.00137	PASS
			VN	-10	1.3	0.00162	PASS
			VN	-20	1.8	0.00224	PASS
			VN	-30	1.3	0.00162	PASS



11 Radiated Spurious emissions below 1GHz

Radiated Spurious emissions

DL_CW_MCH_30MHz-1GHz_Horizontal



	Freq	Read	Correction	Limit	Over	
	MHz	Level	Factor	Line	Limit	Pol/Phase
	MHz	dBm	dB	dBm	dB	
1	39.16	-78.04	-0.35	-78.39	-13.00	-65.39 HORIZONTAL
2	61.56	-78.82	-3.16	-81.98	-13.00	-68.98 HORIZONTAL
3	136.94	-77.14	-7.73	-84.87	-13.00	-71.87 HORIZONTAL
4	313.28	-77.68	-3.41	-81.09	-13.00	-68.09 HORIZONTAL
5	480.53	-76.68	1.34	-75.34	-13.00	-62.34 HORIZONTAL
6	796.18	-76.63	6.67	-69.96	-13.00	-56.96 HORIZONTAL

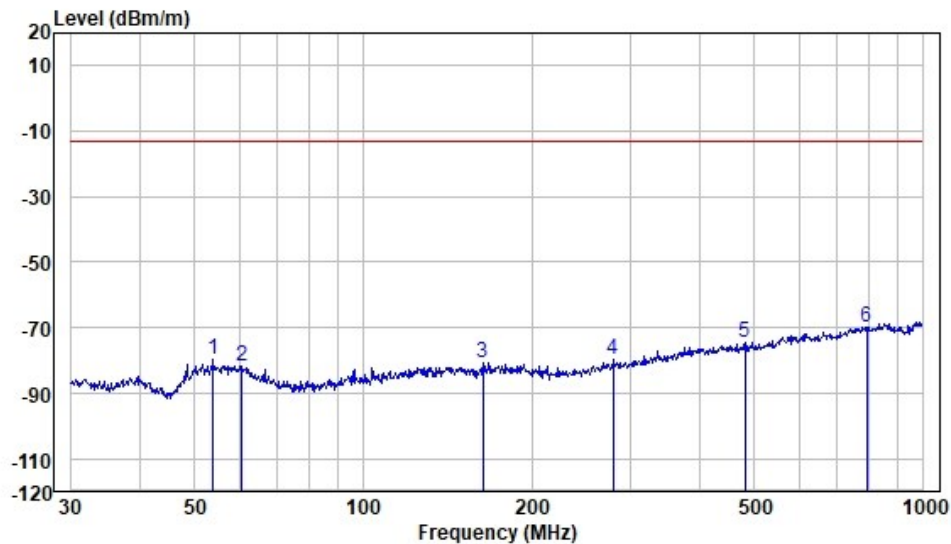
Remark:

The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.



Radiated Spurious emissions

DL_CW_MCH_30MHz-1GHz_Vertical



	Freq	Read	Correction	Limit	Over	
	MHz	Level	Factor	Line	Limit	Pol/Phase
		dBm	dB	dBm	dB	
1	53.88	-76.64	-3.00	-79.64	-13.00	-66.64 VERTICAL
2	60.70	-78.74	-3.01	-81.75	-13.00	-68.75 VERTICAL
3	163.76	-77.11	-3.40	-80.51	-13.00	-67.51 VERTICAL
4	279.04	-77.21	-2.68	-79.89	-13.00	-66.89 VERTICAL
5	480.53	-76.70	2.32	-74.38	-13.00	-61.38 VERTICAL
6	793.40	-77.46	7.72	-69.74	-13.00	-56.74 VERTICAL

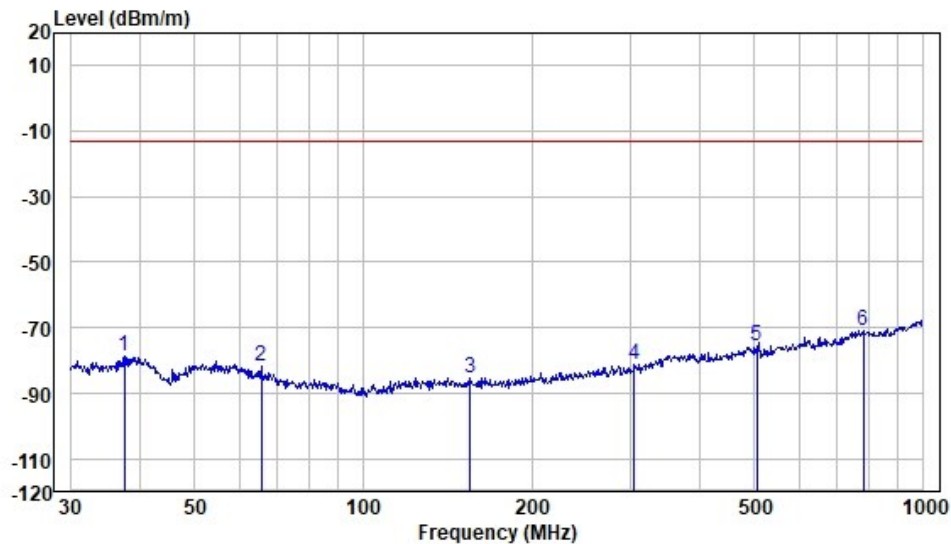
Remark:

The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.



Radiated Spurious emissions

UL_CW_MCH_30MHz-1GHz_Horizontal



	Freq	Read	Correction	Limit	Over	
	MHz	Level	Factor	Line	Limit	Pol/Phase
	MHz	dBm	dB	dBm	dB	
1	37.42	-77.90	-0.83	-78.73	-13.00	-65.73 HORIZONTAL
2	65.80	-76.56	-5.00	-81.56	-13.00	-68.56 HORIZONTAL
3	155.36	-77.62	-7.55	-85.17	-13.00	-72.17 HORIZONTAL
4	304.61	-77.35	-3.68	-81.03	-13.00	-68.03 HORIZONTAL
5	504.71	-76.95	1.15	-75.80	-13.00	-62.80 HORIZONTAL
6	782.35	-77.18	6.51	-70.67	-13.00	-57.67 HORIZONTAL

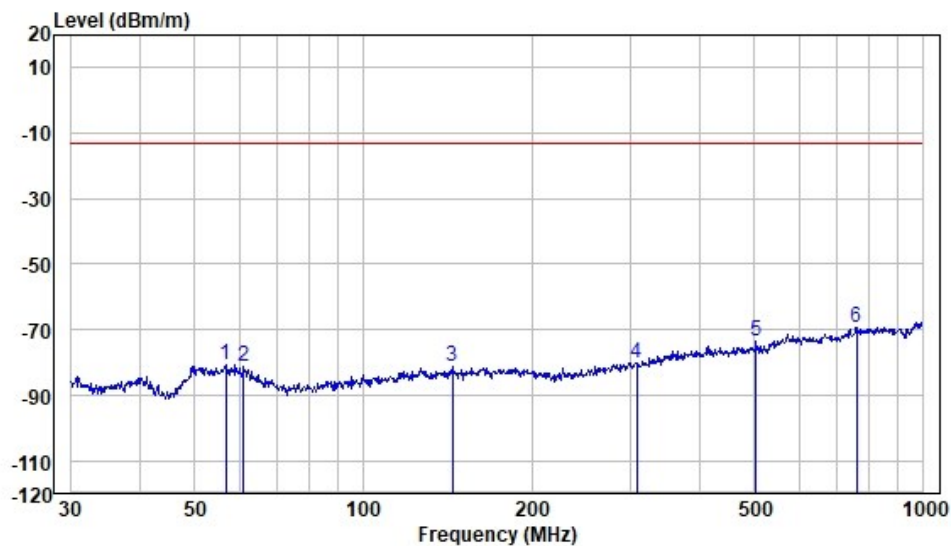
Remark:

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Radiated Spurious emissions

UL_CW_MCH_30MHz-1GHz_Vertical



	Freq	Read	Correction	Level	Limit	Over	Pol/Phase
	MHz	Level	Factor	Level	Line	Limit	
		dBm	dB	dBm	dBm	dB	
1	56.79	-78.08	-2.88	-80.96	-13.00	-67.96	VERTICAL
2	61.13	-78.05	-3.15	-81.20	-13.00	-68.20	VERTICAL
3	144.33	-77.04	-4.07	-81.11	-13.00	-68.11	VERTICAL
4	307.83	-78.23	-1.78	-80.01	-13.00	-67.01	VERTICAL
5	502.94	-76.11	2.43	-73.68	-13.00	-60.68	VERTICAL
6	760.70	-76.90	7.35	-69.55	-13.00	-56.55	VERTICAL

Remark:

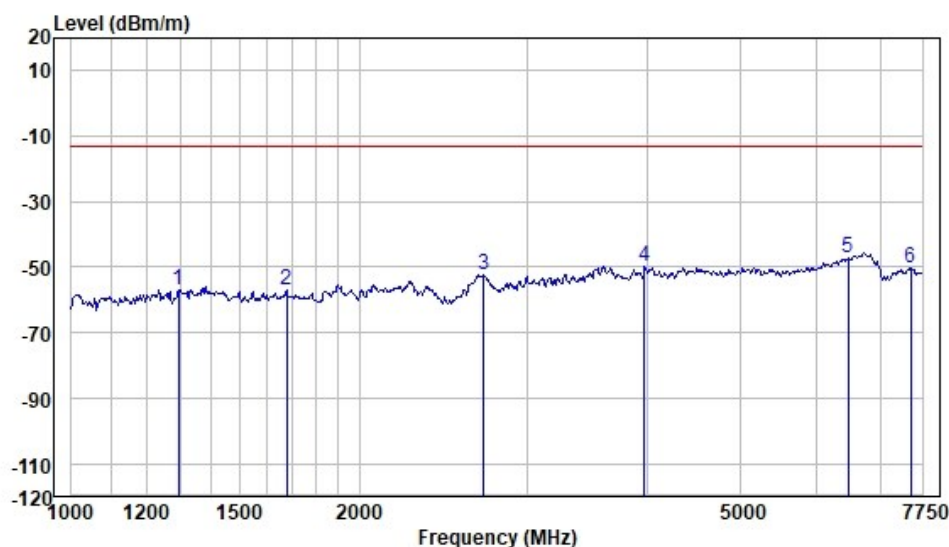
The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.



12 Radiated Spurious emissions above 1GHz

Radiated Spurious emissions

DL_CW_MCH_above 1GHz_Horizontal



	Freq	Read	Correction	Limit	Over	
	MHz	Level	Factor	Line	Limit	Pol/Phase
	MHz	dBm	dB	dBm	dB	
1	1294.35	-58.56	1.78	-56.78	-13.00	-43.78 HORIZONTAL
2	1678.78	-60.03	2.84	-57.19	-13.00	-44.19 HORIZONTAL
3	2699.67	-59.70	7.41	-52.29	-13.00	-39.29 HORIZONTAL
4	3967.35	-61.34	11.39	-49.95	-13.00	-36.95 HORIZONTAL
5	6472.07	-62.36	15.10	-47.26	-13.00	-34.26 HORIZONTAL
6	7530.98	-62.77	12.40	-50.37	-13.00	-37.37 HORIZONTAL

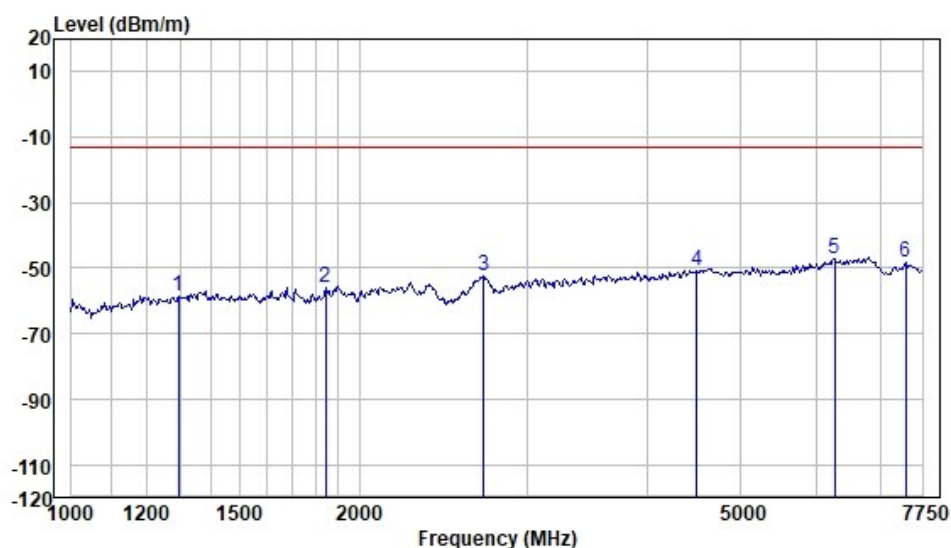


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Radiated Spurious emissions

DL_CW_MCH_above 1GHz_Vertical

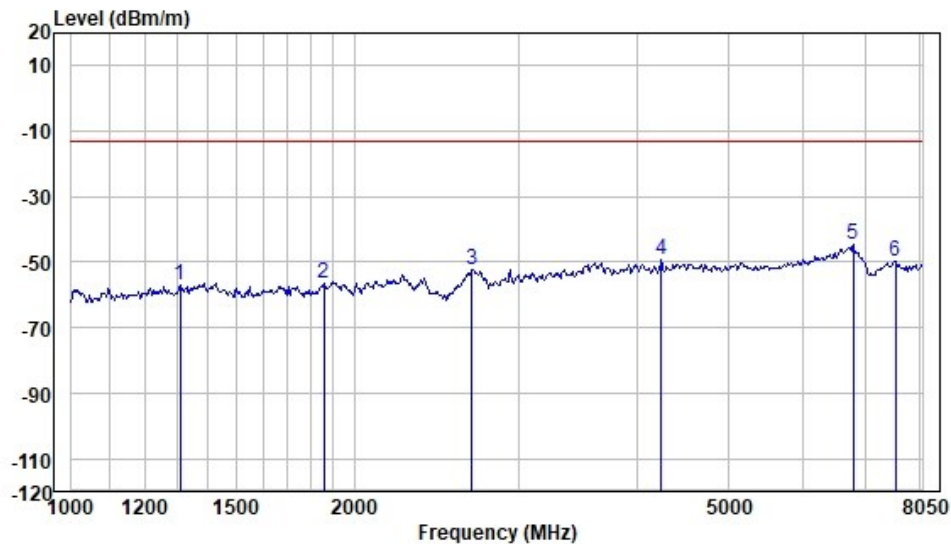


	Freq	Read	Correction	Limit	Over	
	MHz	Level	Factor	Line	Limit	Pol/Phase
	MHz	dBm	dB	dBm	dB	
1	1294.35	-59.89	1.42	-58.47	-13.00	-45.47 VERTICAL
2	1844.60	-59.33	3.38	-55.95	-13.00	-42.95 VERTICAL
3	2699.67	-59.60	7.16	-52.44	-13.00	-39.44 VERTICAL
4	4504.40	-62.34	11.50	-50.84	-13.00	-37.84 VERTICAL
5	6263.46	-62.11	14.87	-47.24	-13.00	-34.24 VERTICAL
6	7439.02	-61.78	13.50	-48.28	-13.00	-35.28 VERTICAL



Radiated Spurious emissions

UL_CW_MCH_above 1GHz_Horizontal

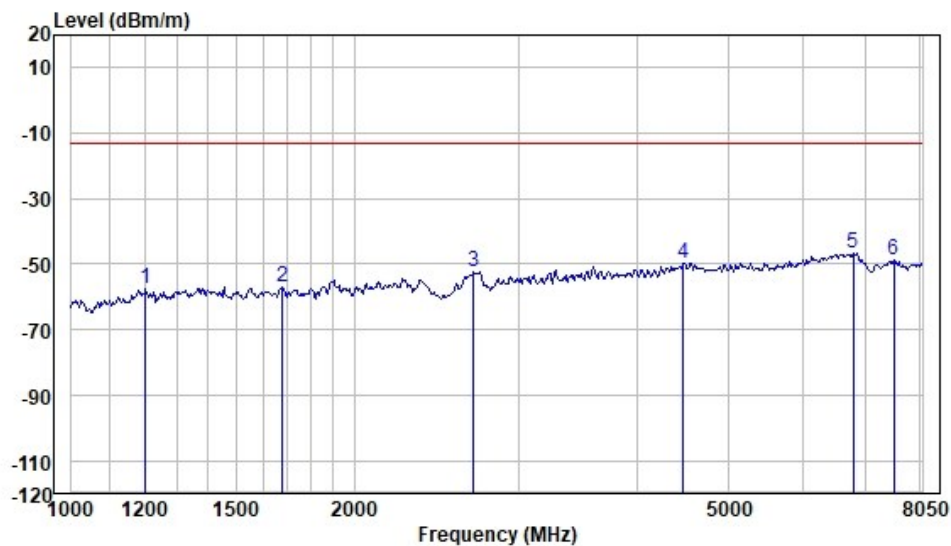


	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1306.00	-59.25	2.07	-57.18	-13.00	-44.18	HORIZONTAL
2	1857.90	-59.99	3.63	-56.36	-13.00	-43.36	HORIZONTAL
3	2670.73	-58.71	6.55	-52.16	-13.00	-39.16	HORIZONTAL
4	4243.43	-59.99	10.71	-49.28	-13.00	-36.28	HORIZONTAL
5	6784.54	-61.47	16.76	-44.71	-13.00	-31.71	HORIZONTAL
6	7530.27	-61.91	12.40	-49.51	-13.00	-36.51	HORIZONTAL



Radiated Spurious emissions

UL_CW_MCH_above 1GHz_Vertical



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1201.46	-59.01	1.35	-57.66	-13.00	-44.66	VERTICAL
2	1677.40	-59.78	2.93	-56.85	-13.00	-43.85	VERTICAL
3	2681.89	-58.85	6.63	-52.22	-13.00	-39.22	VERTICAL
4	4479.89	-60.96	11.44	-49.52	-13.00	-36.52	VERTICAL
5	6784.54	-62.07	15.66	-46.41	-13.00	-33.41	VERTICAL
6	7498.92	-62.47	13.71	-48.76	-13.00	-35.76	VERTICAL

--End of Appendix--

