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Appendix B.1

LTE Band 48



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1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

Remark: the EUT support 4 Tx/Rx antennas, but only allowed to transmit with two antennas at the same time, therefore, for RF power and OBW, both two pair of antennas has been evaluated to demonstrate compliance with RF requirement.

1.1.1 Single_Power

			Ва	and 48 Single NTNV				
BW	DL Frequency (MHz)	Test Mode	Ant No.	Conducted Power (dBm)		EIRP (dBm)	Verdict
(MHz)	(IVIHZ)	iviode	NO.	CC1		Total	Limit	
			1	19.54	25.54	25.54	/	Pass
	CC1:3555	E-TM1.1	2	19.41	25.41	25.41	/	Pass
			Sum	22.49	28.49	28.49	/	Pass
			1	19.60	25.60	25.60	/	Pass
CC1:10	CC1:3625	E-TM1.1	2	19.42	25.42	25.42	/	Pass
			Sum	22.52	28.52	28.52	/	Pass
			1	19.93	25.93	25.93	/	Pass
	CC1:3695	E-TM1.1	2	19.31	25.31	25.31	/	Pass
			Sum	22.64	28.64	28.64	/	Pass
			1	22.20	28.20	28.20	/	Pass
	CC1:3560	E-TM1.1	2	22.23	28.23	28.23	/	Pass
			Sum	25.23	31.23	31.23	/	Pass
			1	22.28	28.28	28.28	/	Pass
CC1:20	CC1:3625	E-TM1.1	2	22.30	28.30	28.30	/	Pass
			Sum	25.30	31.30	31.30	/	Pass
			1	22.64	28.64	28.64	/	Pass
	CC1:3690	E-TM1.1	2	22.08	28.08	28.08	/	Pass
			Sum	25.38	31.38	31.38	/	Pass



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			Ва	and 48 Single NTNV				
BW (MHz)	DL Frequency (MHz)	Test Mode	Ant No.	Conducted Power (dBm)		EIRP (dBm)	Verdict
(101112)	(171112)	IVIOGE	NO. CC2		Total	Limit		
			3	19.20	25.20	25.20	/	Pass
	CC2:3555	E-TM1.1	4	19.42	25.42	25.42	/	Pass
			Sum	22.32	28.32	28.32	/	Pass
			3	19.43	25.43	25.43	/	Pass
CC2:10	CC2:3625	E-TM1.1	4	19.21	25.21	25.21	/	Pass
			Sum	22.33	28.33	28.33	/	Pass
			3	19.24	25.24	25.24	/	Pass
	CC2:3695	E-TM1.1	4	19.65	25.65	25.65	/	Pass
			Sum	22.46	28.46	28.46	/	Pass
			3	19.37	25.37	25.37	/	Pass
	CC2:3560	E-TM1.1	4	19.54	25.54	25.54	/	Pass
			Sum	22.47	28.47	28.47	/	Pass
			3	19.37	25.37	25.37	/	Pass
CC2:20	CC2:3625	E-TM1.1	4	19.04	25.04	25.04	/	Pass
			Sum	22.22	28.22	28.22	/	Pass
			3	19.37	25.37	25.37	/	Pass
	CC2:3690	E-TM1.1	4	19.68	25.68	25.68	/	Pass
			Sum	22.54	28.54	28.54	/	Pass



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1.1.2 Single_Power2

				Band 48 Single NTNV				
BW (MHz)	DL Frequency (MHz)	Test Mode	Ant No.	Conducted Power (dBm/MHz)	EIR	IP (dBm/N	1Hz)	Verdict
(IVITIZ)	(IVITIZ)	Mode	NO.	CC1		Total	Limit	
			1	10.76	16.76	/	/	Pass
	CC1:3555	E-TM1.1	2	10.55	16.55	/	/	Pass
			Sum	13.67	19.67	/	<=20	Pass
			1	10.65	16.65	/	/	Pass
CC1:10	CC1:3625	E-TM1.1	2	10.49	16.49	/	/	Pass
			Sum	13.58	19.58	/	<=20	Pass
			1	10.98	16.98	/	/	Pass
	CC1:3695	E-TM1.1	2	10.35	16.35	/	/	Pass
			Sum	13.69	19.69	/	<=20	Pass
			1	10.73	16.73	/	/	Pass
	CC1:3560	E-TM1.1	2	10.72	16.72	/	/	Pass
			Sum	13.74	19.74	/	<=20	Pass
			1	10.52	16.52	/	/	Pass
CC1:20	CC1:3625	E-TM1.1	2	10.50	16.50	/	/	Pass
			Sum	13.52	19.52	/	<=20	Pass
			1	10.94	16.94	/	/	Pass
	CC1:3690	E-TM1.1	2	10.28	16.28	/	/	Pass
			Sum	13.63	19.63	/	<=20	Pass



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			I	Band 48 Single NTNV					
BW (MHz)	DL Frequency (MHz)	Test Mode	Ant No.	Conducted Power (dBm/MHz)	EIR	EIRP (dBm/MHz)			
(IVITIZ)	(IVITIZ)	Mode	NO.	CC2		Total	Limit		
			3	10.55	16.55	/	/	Pass	
	CC2:3555	E-TM1.1	4	10.69	16.69	/	/	Pass	
			Sum	13.63	19.63	/	<=20	Pass	
			3	10.76	16.76	/	/	Pass	
CC2:10	CC2:3625	E-TM1.1	4	10.42	16.42	/	/	Pass	
			Sum	13.60	19.60	/	<=20	Pass	
			3	10.46	16.46	/	/	Pass	
	CC2:3695	E-TM1.1	4	10.84	16.84	/	/	Pass	
			Sum	13.66	19.66	/	<=20	Pass	
			3	7.80	13.80	/	/	Pass	
	CC2:3560	E-TM1.1	4	8.18	14.18	/	/	Pass	
			Sum	11.00	17.00	/	<=20	Pass	
			3	7.61	13.61	/	/	Pass	
CC2:20	CC2:3625	E-TM1.1	4	7.24	13.24	/	/	Pass	
			Sum	10.44	16.44	/	<=20	Pass	
			3	7.55	13.55	/	/	Pass	
	CC2:3690	E-TM1.1	4	7.80	13.80	/	/	Pass	
			Sum	10.69	16.69	/	<=20	Pass	



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1.1.3 Single_Power3

				Band 48 Single NTNV					
BW (MHz)	DL Frequency (MHz)	Test Mode	Ant No.	Conducted Power (dBm/10MHz)	EIRP	(dBm/10	MHz)	Verdict	
(IVITIZ)	(IVITIZ)	ivioue	NO.	CC1		Total	Limit		
			1	19.52	25.52	/	/	Pass	
	CC1:3555	E-TM1.1	2	19.33	25.33	/	/	Pass	
			Sum	22.44	28.44	/	<=30	Pass	
			1	19.52	25.52	/	/	Pass	
CC1:10	CC1:3625	E-TM1.1	2	19.36	25.36	/	/	Pass	
			Sum	22.45	28.45	/	<=30	Pass	
			1	19.84	25.84	/	/	Pass	
	CC1:3695	E-TM1.1	2	19.21	25.21	/	/	Pass	
			Sum	22.55	28.55	/	<=30	Pass	
			1	19.65	25.65	/	/	Pass	
	CC1:3560	E-TM1.1	2	19.58	25.58	/	/	Pass	
			Sum	22.63	28.63	/	<=30	Pass	
			1	19.70	25.70	/	/	Pass	
CC1:20	CC1:3625	E-TM1.1	2	19.71	25.71	/	/	Pass	
			Sum	22.72	28.72	/	<=30	Pass	
			1	20.11	26.11	/	/	Pass	
	CC1:3690	E-TM1.1	2	19.55	25.55	/	/	Pass	
			Sum	22.85	28.85	/	<=30	Pass	



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				Band 48 Single NTNV					
BW (MHz)	DL Frequency (MHz)	Test Mode	Ant	Conducted Power (dBm/10MHz)	EIRP	(dBm/10	MHz)	Verdict	
(IVITIZ)	(IVIHZ)	ivioue	NO.	No. CC2		Total	Limit		
			3	19.26	25.26	/	/	Pass	
	CC2:3555	E-TM1.1	4	19.50	25.50	/	/	Pass	
			Sum	22.39	28.39	/	<=30	Pass	
			3	19.51	25.51	/	/	Pass	
CC2:10	CC2:3625	E-TM1.1	4	19.30	25.30	/	/	Pass	
			Sum	22.42	28.42	/	<=30	Pass	
			3	19.32	25.32	/	/	Pass	
	CC2:3695	E-TM1.1	4	19.75	25.75	/	/	Pass	
			Sum	22.55	28.55	/	<=30	Pass	
			3	16.86	22.86	/	/	Pass	
	CC2:3560	E-TM1.1	4	16.98	22.98	/	/	Pass	
			Sum	19.93	25.93	/	<=30	Pass	
			3	16.85	22.85	/	/	Pass	
CC2:20	CC2:3625	E-TM1.1	4	16.50	22.50	/	/	Pass	
			Sum	19.69	25.69	/	<=30	Pass	
			3	16.86	22.86	/	/	Pass	
	CC2:3690	E-TM1.1	4	17.16	23.16	/	/	Pass	
			Sum	20.02	26.02	/	<=30	Pass	



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2. Frequency Stability

2.1 Test Result

2.1.1 Single_Ant1

			Ва	nd 48 Singl	e NTNV Ant1			
BW	DL Frequency	Test	Temp.	Voltage	Frequency	Freq. vs. f	Rated (ppm)	Manaliak
(MHz)	(MHz)	Mode	(°C)	(VDC)	Deviation (Hz)	Result	Limit	Verdict
				40.8	-1938.00	0.55	-1.5 to 1.5	Pass
			20	48	-1933.00	0.54	-1.5 to 1.5	Pass
				55.2	-1938.00	0.55	-1.5 to 1.5	Pass
			-30	48	-1938.00	0.55	-1.5 to 1.5	Pass
			-20	48	-1938.00	0.55	-1.5 to 1.5	Pass
	CC1:3555	E-TM1.1	-10	48	-1938.00	0.55	-1.5 to 1.5	Pass
			0	48	-1943.00	0.55	-1.5 to 1.5	Pass
			10	48	-1943.00	0.55	-1.5 to 1.5	Pass
			30	48	-1948.00	0.55	-1.5 to 1.5	Pass
			40	48	-1938.00	0.55	-1.5 to 1.5	Pass
			50	48	-1938.00	0.55	-1.5 to 1.5	Pass
				40.8	-1973.00	0.54	-1.5 to 1.5	Pass
			20	48	-1978.00	0.55	-1.5 to 1.5	Pass
CC1:10				55.2	-1978.00	0.55	-1.5 to 1.5	Pass
			-30	48	-1978.00	0.55	-1.5 to 1.5	Pass
			-20	48	-1978.00	0.55	-1.5 to 1.5	Pass
	CC1:3625	E-TM1.1	-10	48	-1978.00	0.55	-1.5 to 1.5	Pass
			0	48	-1978.00	0.55	-1.5 to 1.5	Pass
			10	48	-1973.00	0.54	-1.5 to 1.5	Pass
			30	48	-1978.00	0.55	-1.5 to 1.5	Pass
			40	48	-1973.00	0.54	-1.5 to 1.5	Pass
			50	48	-1973.00	0.54	-1.5 to 1.5	Pass
				40.8	-2019.00	0.55	-1.5 to 1.5	Pass
			20	48	-2009.00	0.54	-1.5 to 1.5	Pass
	CC1:3695	E-TM1.1		55.2	-2009.00	0.54	-1.5 to 1.5	Pass
			-30	48	-2014.00	0.55	-1.5 to 1.5	Pass
			-20	48	-2009.00	0.54	-1.5 to 1.5	Pass



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			-10	48	-2009.00	0.54	-1.5 to 1.5	Pass
			0	48	-2019.00	0.55	-1.5 to 1.5	Pass
			10	48	-2009.00	0.54	-1.5 to 1.5	Pass
			30	48	-2019.00	0.55	-1.5 to 1.5	Pass
			40	48	-2019.00	0.55	-1.5 to 1.5	Pass
			50	48	-2009.00	0.54	-1.5 to 1.5	Pass
				40.8	-1943.00	0.55	-1.5 to 1.5	Pass
			20	48	-1943.00	0.55	-1.5 to 1.5	Pass
				55.2	-1938.00	0.54	-1.5 to 1.5	Pass
			-30	48	-1938.00	0.54	-1.5 to 1.5	Pass
			-20	48	-1938.00	0.54	-1.5 to 1.5	Pass
	CC1:3560	E-TM1.1	-10	48	-1938.00	0.54	-1.5 to 1.5	Pass
			0	48	-1933.00	0.54	-1.5 to 1.5	Pass
			10	48	-1938.00	0.54	-1.5 to 1.5	Pass
			30	48	-1938.00	0.54	-1.5 to 1.5	Pass
			40	48	-1943.00	0.55	-1.5 to 1.5	Pass
			50	48	-1933.00	0.54	-1.5 to 1.5	Pass
				40.8	-1978.00	0.55	-1.5 to 1.5	Pass
			20	48	-1973.00	0.54	-1.5 to 1.5	Pass
				55.2	-1973.00	0.54	-1.5 to 1.5	Pass
			-30	48	-1978.00	0.55	-1.5 to 1.5	Pass
CC1:20			-20	48	-1978.00	0.55	-1.5 to 1.5	Pass
	CC1:3625	E-TM1.1	-10	48	-1968.00	0.54	-1.5 to 1.5	Pass
			0	48	-1973.00	0.54	-1.5 to 1.5	Pass
			10	48	-1978.00	0.55	-1.5 to 1.5	Pass
			30	48	-1978.00	0.55	-1.5 to 1.5	Pass
			40	48	-1973.00	0.54	-1.5 to 1.5	Pass
			50	48	-1978.00	0.55	-1.5 to 1.5	Pass
				40.8	-2009.00	0.54	-1.5 to 1.5	Pass
			20	48	-2004.00	0.54	-1.5 to 1.5	Pass
				55.2	-2009.00	0.54	-1.5 to 1.5	Pass
			-30	48	-2014.00	0.55	-1.5 to 1.5	Pass
	CC1:3690	E-TM1.1	-20	48	-2004.00	0.54	-1.5 to 1.5	Pass
			-10	48	-2009.00	0.54	-1.5 to 1.5	Pass
			0	48	-2009.00	0.54	-1.5 to 1.5	Pass
			10	48	-2009.00	0.54	-1.5 to 1.5	Pass
			30	48	-2009.00	0.54	-1.5 to 1.5	Pass



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40	48	-2009.00	0.54	-1.5 to 1.5	Pass
50	48	-2014.00	0.55	-1.5 to 1.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Single_OBW

		В	and 48 Sing	le NTNV		
BW	DL Frequency	Test	Ant	99% Occupied B	andwidth (MHz)	Verdict
(MHz)	(MHz)	Mode	No.	Result	Limit	verdict
	CC1:3555	E-TM1.1	1	9.01	/	Pass
	CC1.5555	E-IIVII.I	2	9.01	/	Pass
CC1:10	CC1:3625	E-TM1.1	1	8.99	/	Pass
CC1:10	CC1:3625	E-IIVII.I	2	9.01	/	Pass
	CC1-2C0F	Г TN41 1	1	9.02	/	Pass
	CC1:3695	E-TM1.1	2	8.96	/	Pass
	CC1:3560	E-TM1.1	1	18.10	/	Pass
	CC1.5500	E-IIVII.I	2	18.08	/	Pass
CC1.20	CC1-2C2E	Г TN41 1	1	18.03	/	Pass
CC1:20	CC1:3625	E-TM1.1	2	18.06	/	Pass
	CC1:3690	E-TM1.1	1	18.06	/	Pass
	CC1.3690	C-IIVII.I	2	18.09	/	Pass



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		В	and 48 Sing	le NTNV		
BW	DL Frequency	Test	Ant	99% Occupied B	andwidth (MHz)	Vordiet
(MHz)	(MHz)	Mode	No.	Result	Limit	Verdict
	CC2-2555	Г TN41 1	3	8.96	/	Pass
	CC2:3555	E-TM1.1	4	8.97	/	Pass
CC2:10	CC2:3625	E-TM1.1	3	8.97	/	Pass
CC2.10	CC2.3623	E-IIVII.I	4	8.93	/	Pass
	CC2:3695	E-TM1.1	3	8.98	/	Pass
	CC2.3693	E-IIVII.I	4	8.92	/	Pass
	CC2:3560	E-TM1.1	3	17.94	/	Pass
	CC2.5560	E-IIVII.I	4	17.97	/	Pass
CC2:20	CC2-2C2E	E TN41 1	3	17.95	/	Pass
CC2:20	CC2:3625	E-TM1.1	4	17.94	/	Pass
	CC2:3690	E-TM1.1	3	18.01	/	Pass
	CC2.3690	C-11V11.1	4	17.92	/	Pass

3.1.2 Single_XDB

		Bar	nd 48 Single N	NTNV		
BW	DL Frequency	Test	Ant	26dB Bandy	vidth (MHz)	Verdict
(MHz)	(MHz)	Mode	No.	Result	Limit	verdict
	001.2555	F TN44 4	1	9.80	/	Pass
	CC1:3555	E-TM1.1	2	9.78	/	Pass
CC1.10	CC1-2C2E	F TN44 4	1	9.65	/	Pass
CC1:10	CC1:3625	E-TM1.1	2	9.78	/	Pass
	664,3605	F TN 44 4	1	9.69	/	Pass
	CC1:3695	E-TM1.1	2	9.78	/	Pass
	664,3560	F TN 44 4	1	19.64	/	Pass
	CC1:3560	E-TM1.1	2	19.52	/	Pass
664.20	664,2625	F TN 44 4	1	19.46	/	Pass
CC1:20	CC1:3625	E-TM1.1	2	19.40	/	Pass
	661,2600	5 TN 44 4	1	19.35	/	Pass
	CC1:3690	E-TM1.1	2	19.55	/	Pass



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		Bar	nd 48 Single N	NTNV		
BW	DL Frequency	Test	Ant	26dB Bandwidth (MHz)		Verdict
(MHz)	(MHz)	Mode	No.	Result	Limit	verdict
CC2:10	CC2:3555	E-TM1.1	3	9.65	/	Pass
			4	9.68	/	Pass
	CC2:3625	E-TM1.1	3	9.62	/	Pass
			4	9.58	/	Pass
	CC2:3695	E-TM1.1	3	9.70	/	Pass
			4	9.50	/	Pass
CC2:20	CC2:3560	E-TM1.1	3	19.42	/	Pass
			4	19.30	/	Pass
	CC2:3625	E-TM1.1	3	19.21	/	Pass
			4	19.06	/	Pass
	CC2:3690	E-TM1.1	3	19.06	/	Pass
			4	19.13	/	Pass



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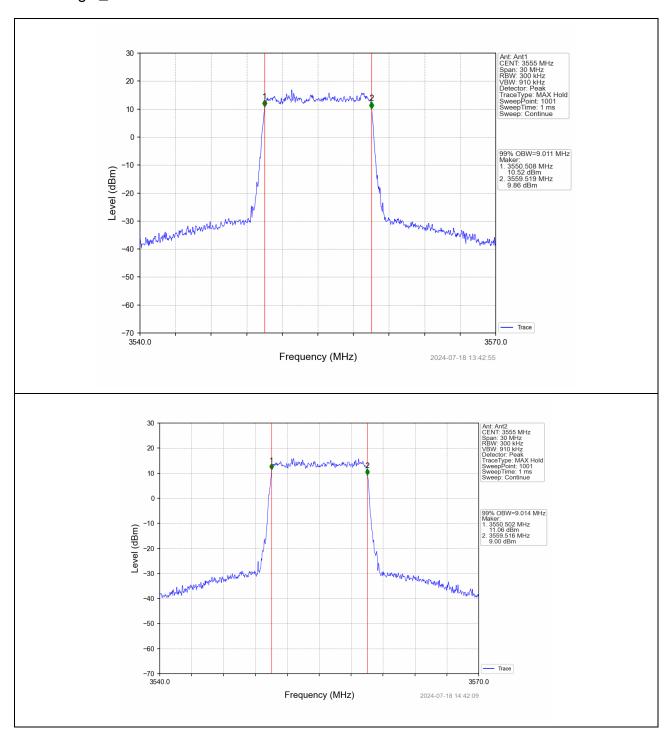
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3.2 Test Graph

3.2.1 Single_OBW



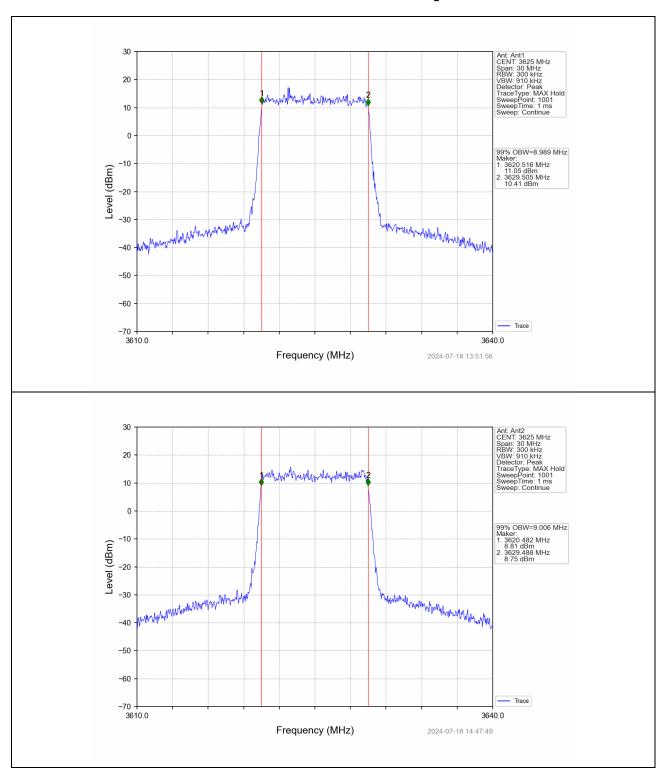


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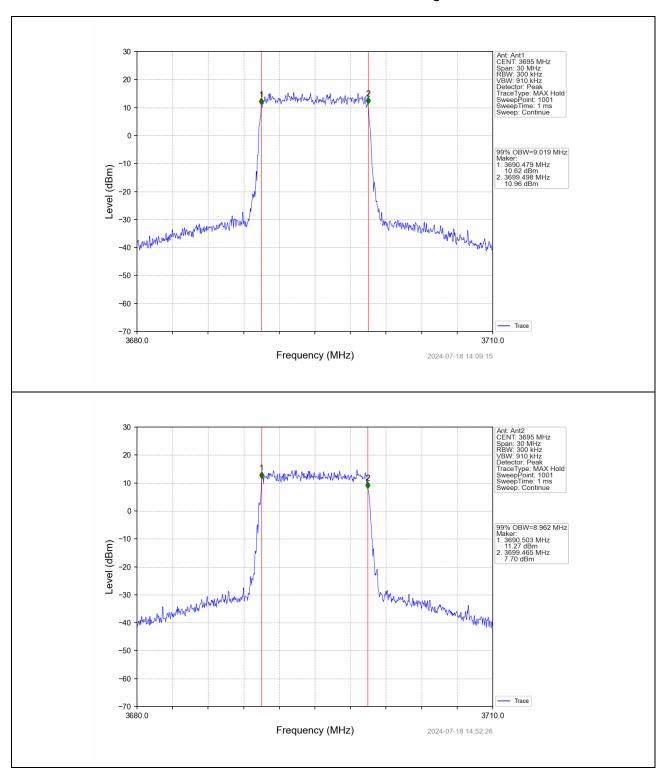
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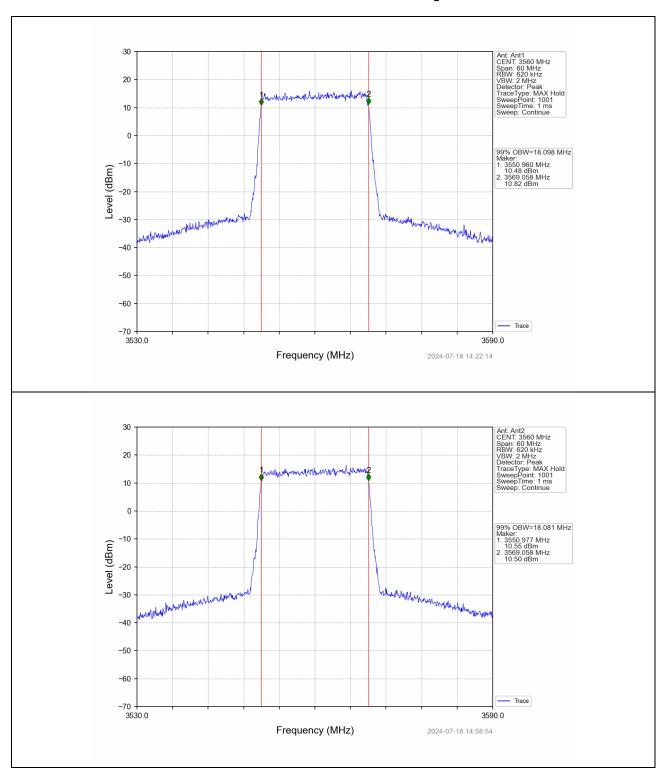
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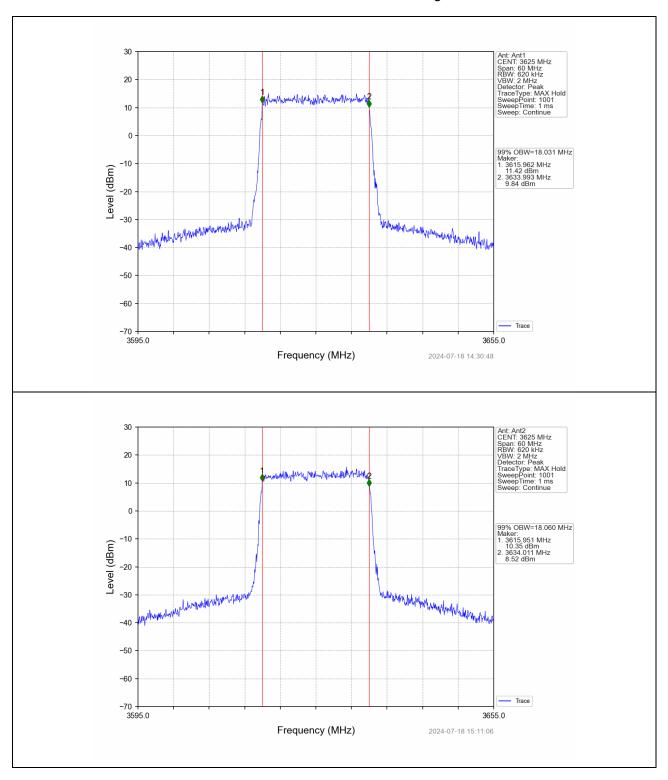
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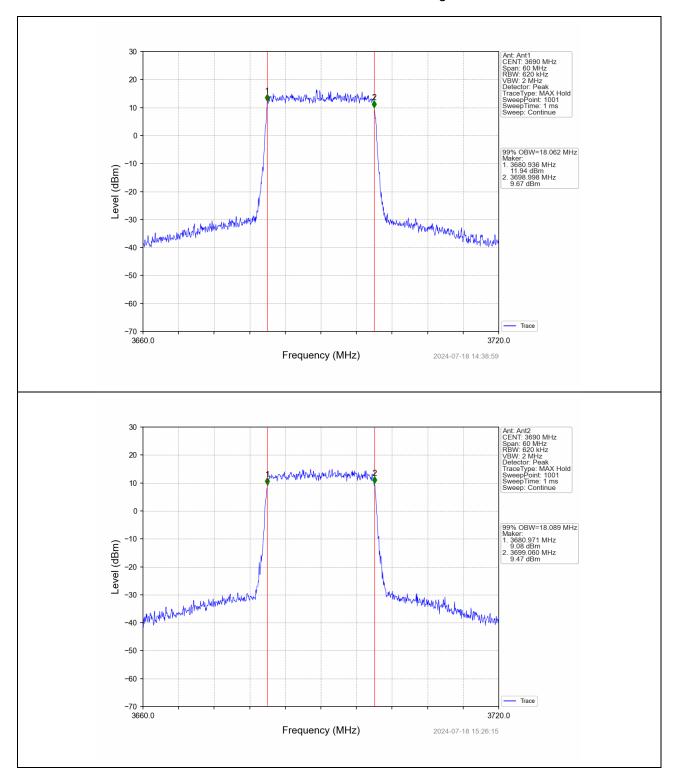
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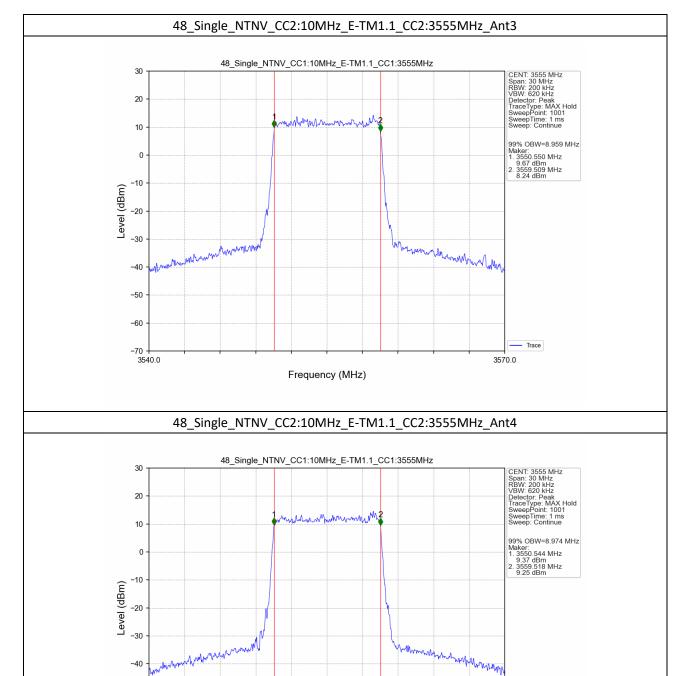
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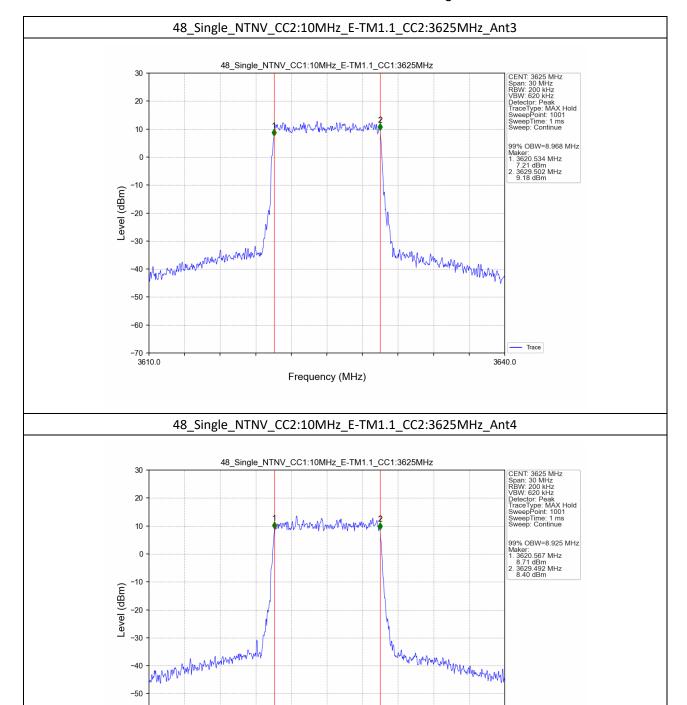
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3610.0

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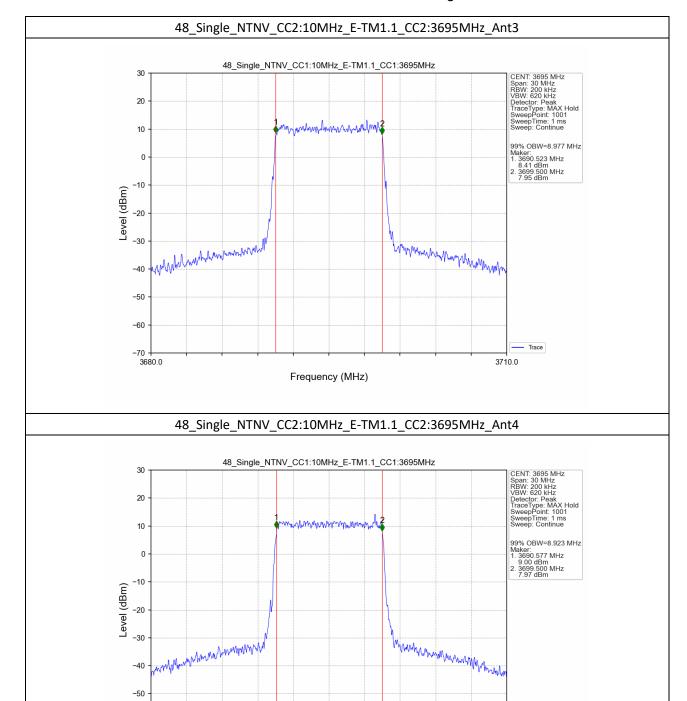
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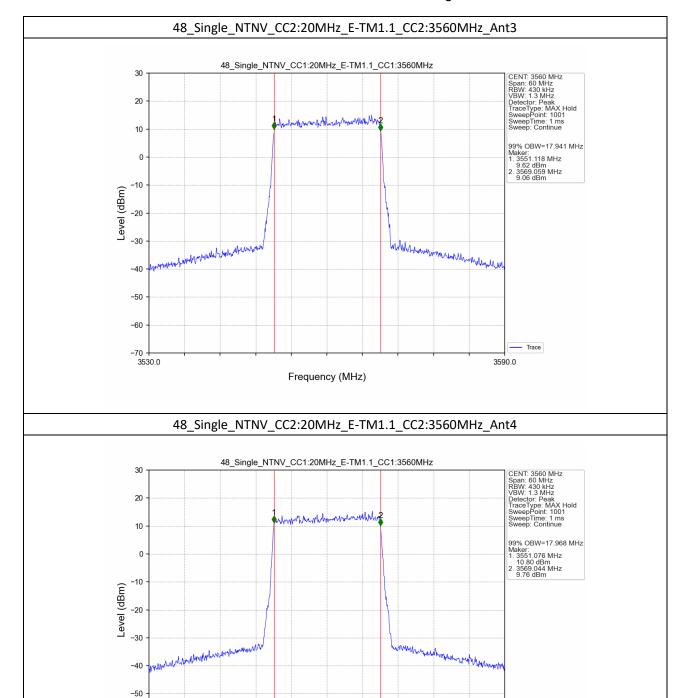
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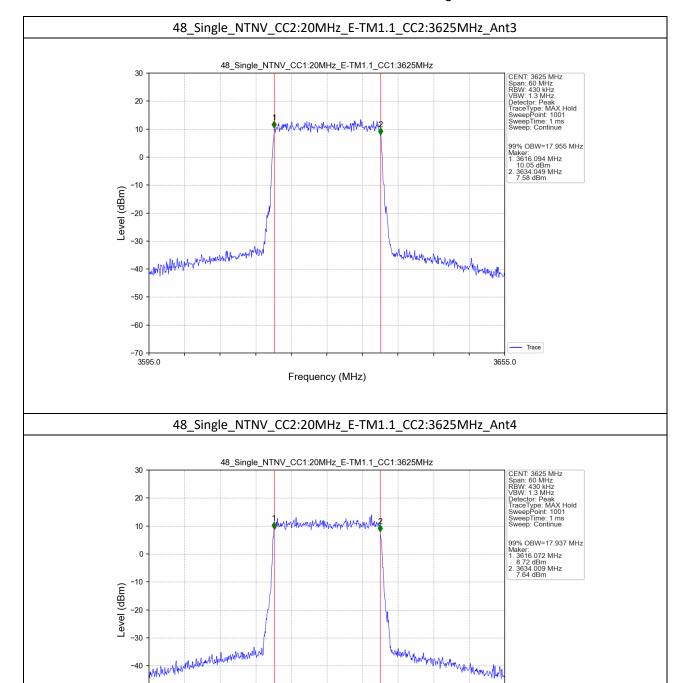
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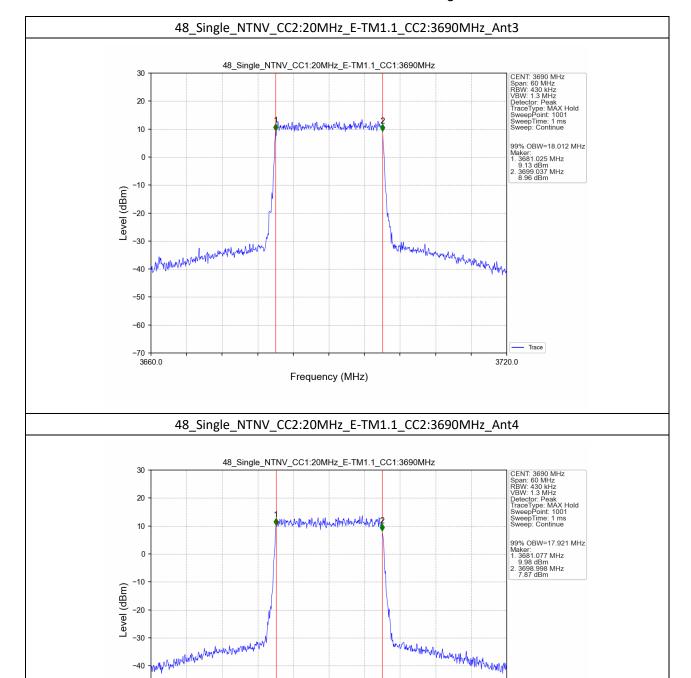
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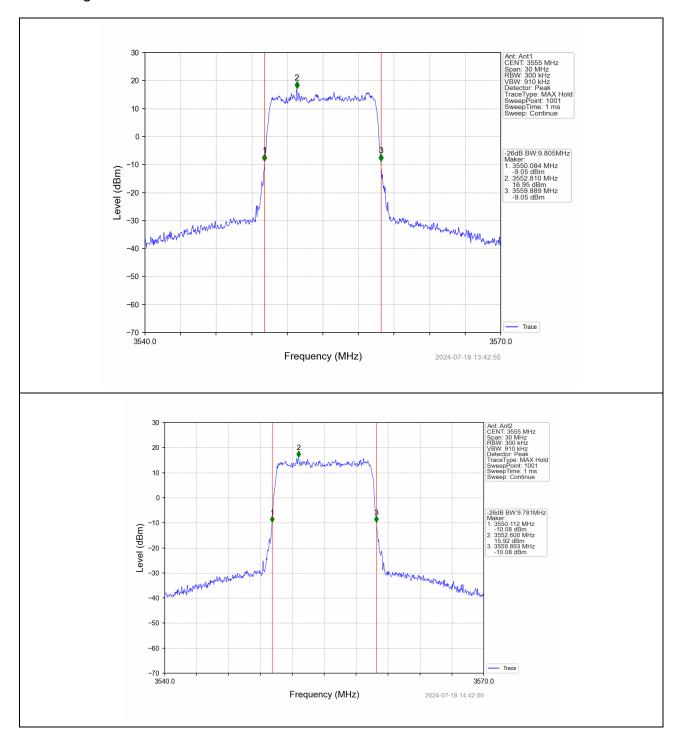
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4.2.2 Single_XDB





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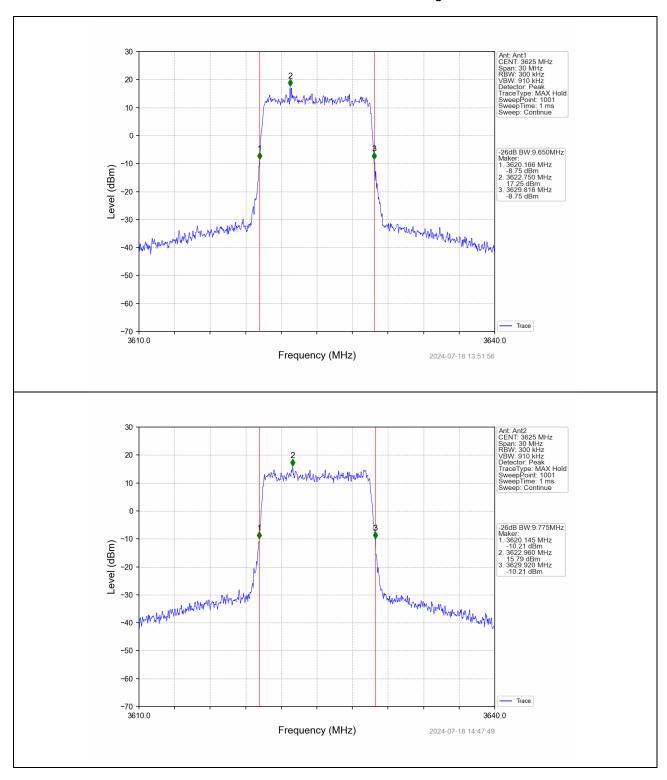
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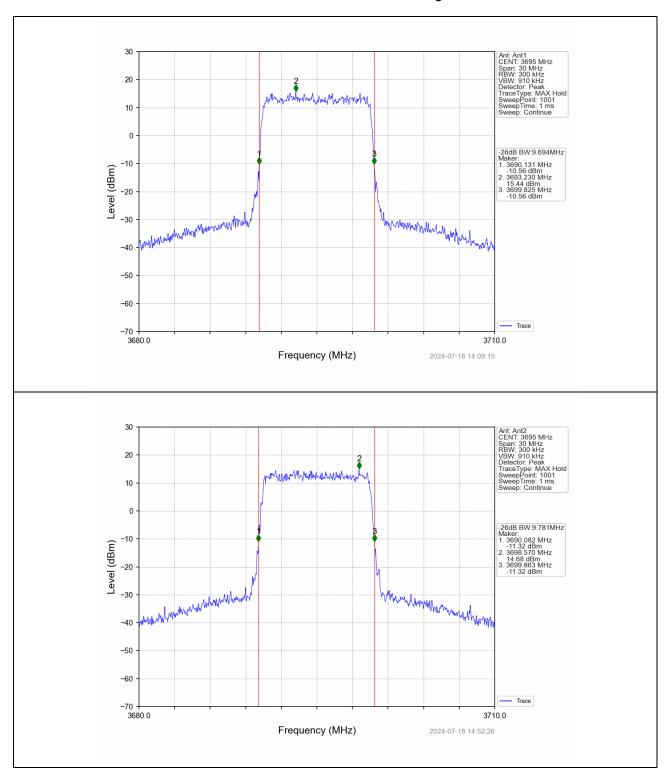
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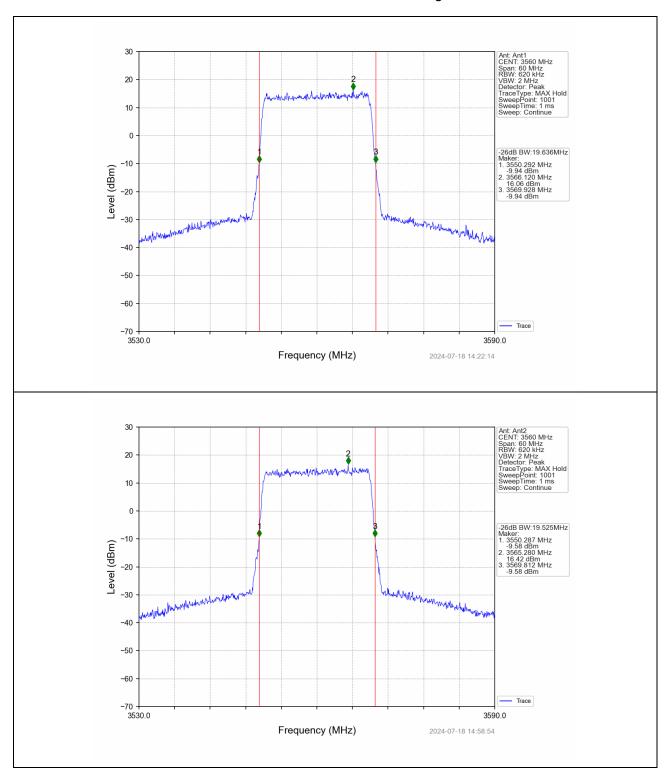
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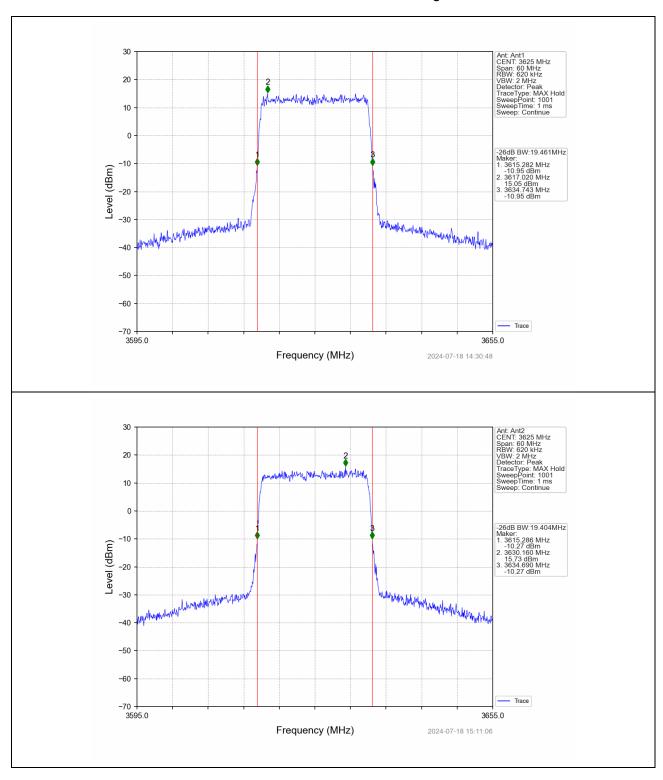
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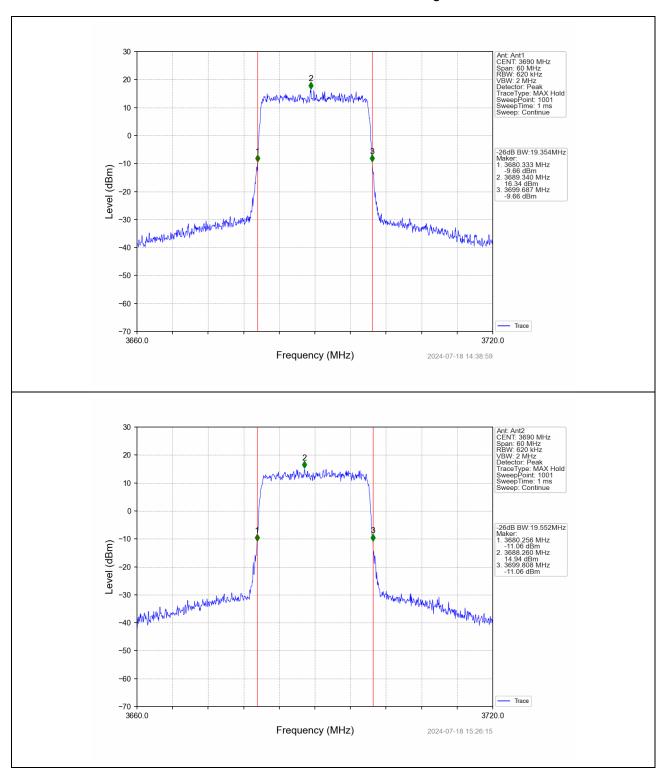
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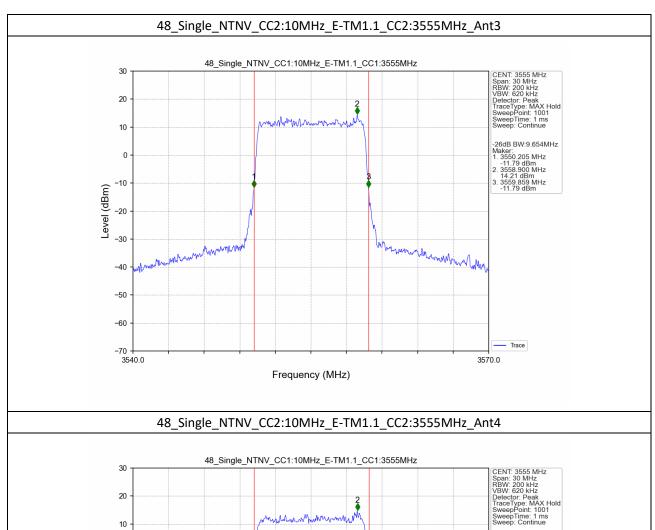
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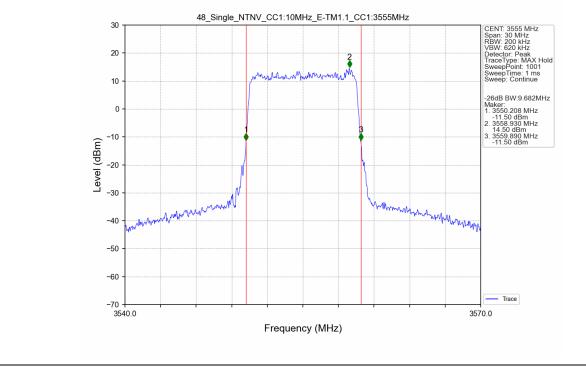
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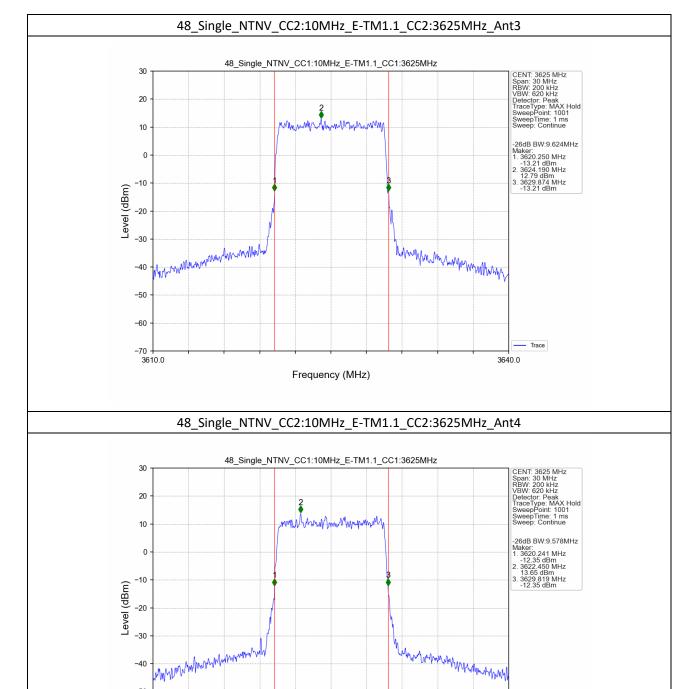
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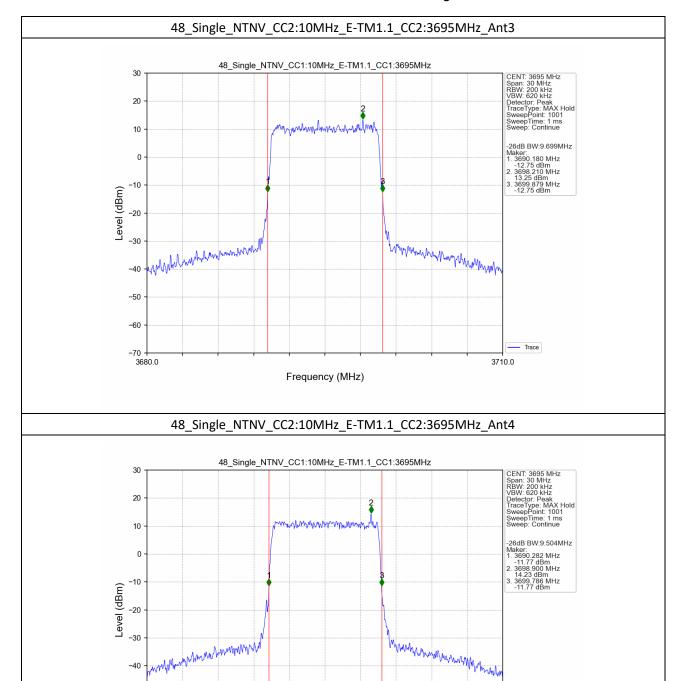
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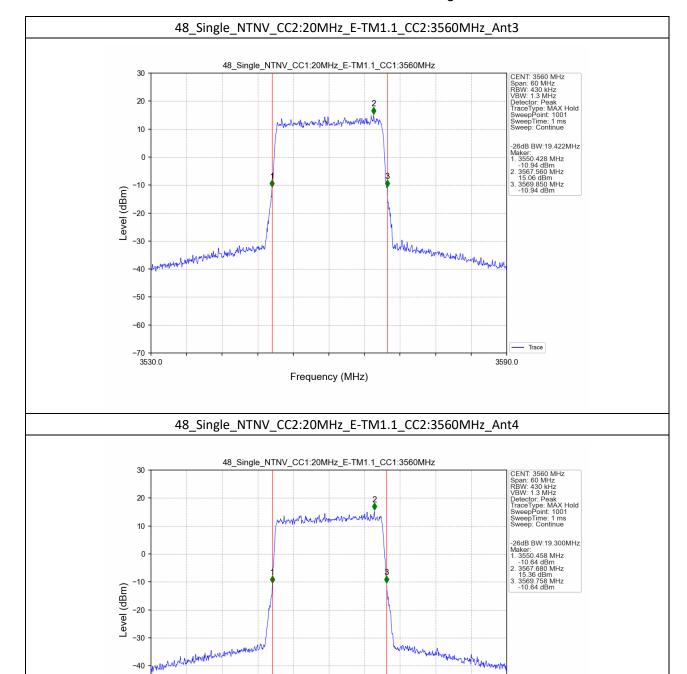
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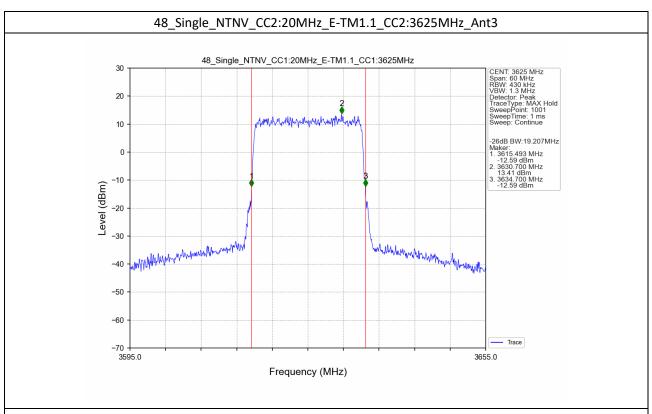
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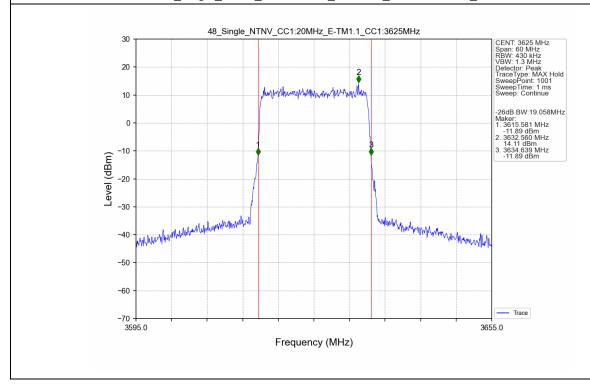
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48_Single_NTNV_CC2:20MHz_E-TM1.1_CC2:3625MHz_Ant4





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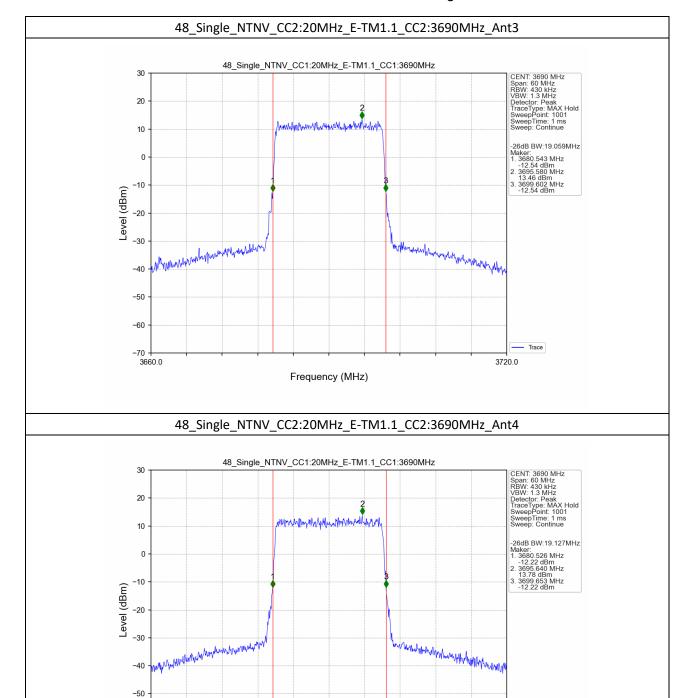
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4. Peak-Average Ratio

4.1 Test Result

4.1.1 Single

Band 48 Single NTNV Ant1										
BW	DL Frequency	Test	Ant	Peak-Averag	ge Ratio (dB)	Verdict				
(MHz)	(MHz)	Mode	No.	Result	Limit					
CC1:10	CC1:3555	E-TM1.1	1	9.01	<=13	Pass				
			2	8.92	<=13	Pass				
	CC1:3625	E-TM1.1	1	9.06	<=13	Pass				
			2	8.98	<=13	Pass				
	CC1:3695	E-TM1.1	1	9.06	<=13	Pass				
			2	8.95	<=13	Pass				
CC1:20	CC1:3560	E-TM1.1	1	8.82	<=13	Pass				
			2	8.82	<=13	Pass				
	CC1:3625	E-TM1.1	1	8.76	<=13	Pass				
			2	8.84	<=13	Pass				
	CC1:3690	E-TM1.1	1	8.74	<=13	Pass				
			2	8.90	<=13	Pass				



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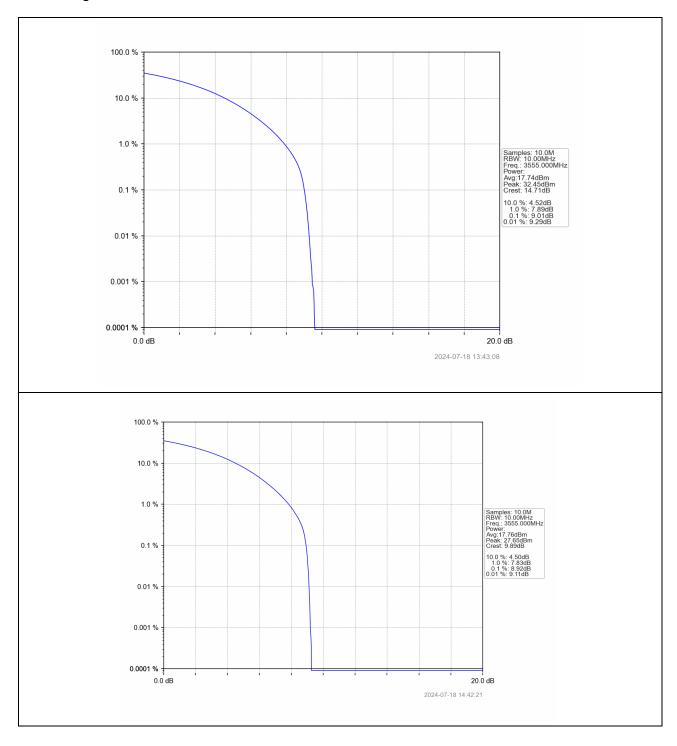
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4.2 Test Graph

4.2.1 Single



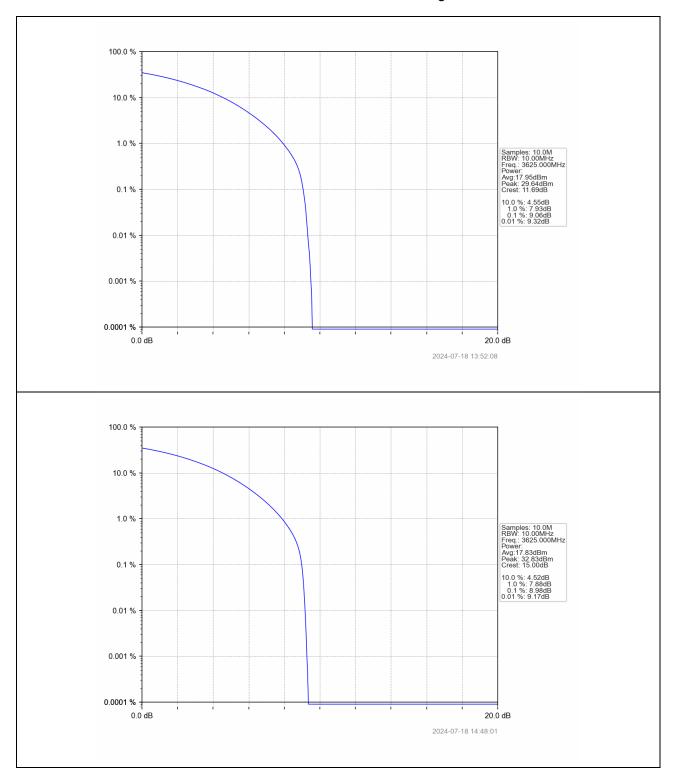


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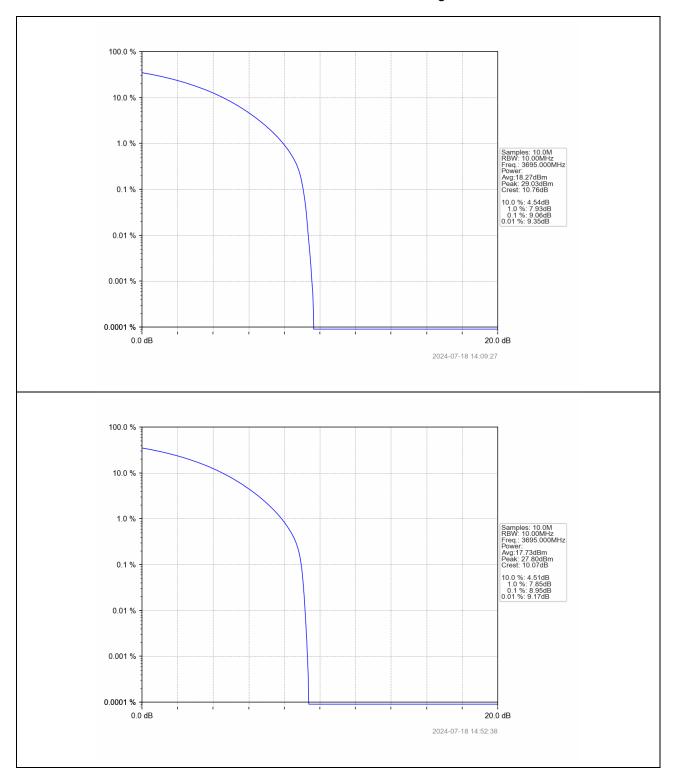
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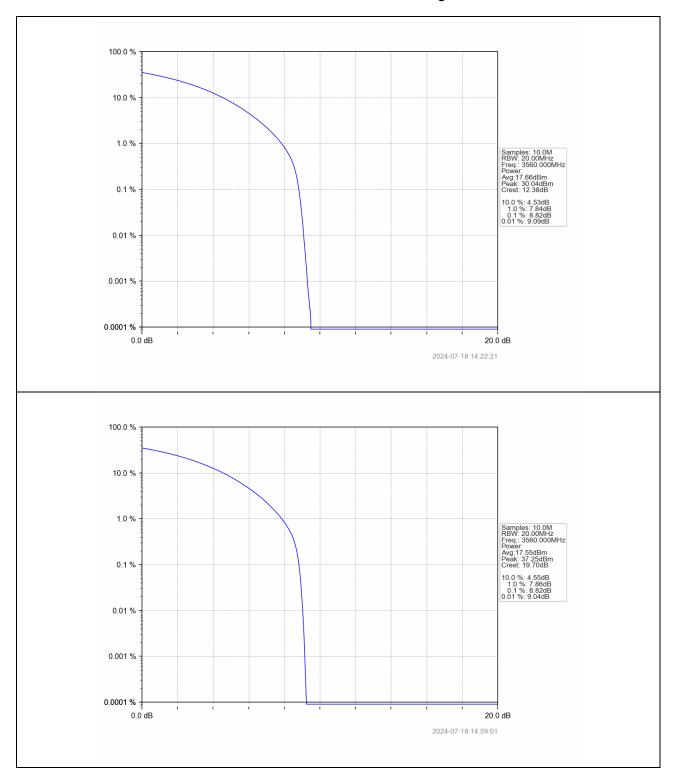
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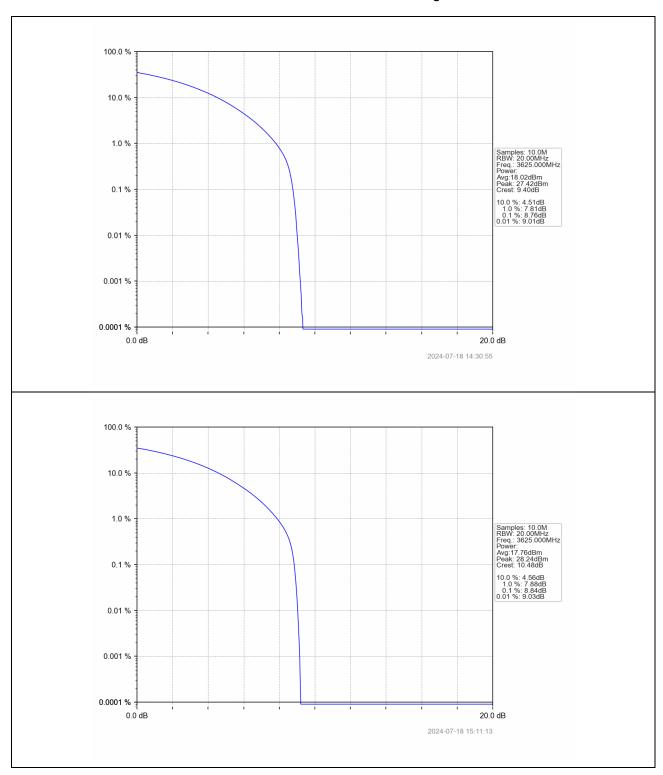
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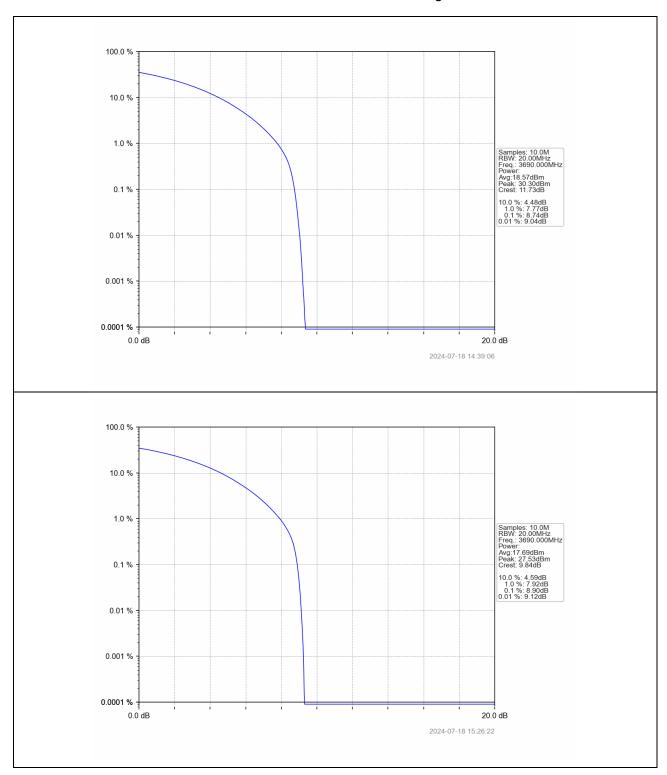
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5. Spurious Emission

5.1 Test Result

5.1.1 Single

Band 48 Single NTNV Ant1									
BW	DL Frequency	Test	Ant	Spurious Emission		\/ordia+			
(MHz)	(MHz)	Mode	No.	Result	Limit	Verdict			
CC1:10	CC1:3555	E-TM1.1	1	Refer To Test Graph		Pass			
			2	Refer To Test Graph		Pass			
			Sum	Refer To Test Graph		Pass			
	CC1:3625	E-TM1.1	1	Refer To Test Graph		Pass			
			2	Refer To Test Graph		Pass			
			Sum	Refer To Test Graph		Pass			
	CC1:3695	E-TM1.1	1	Refer To Test Graph		Pass			
			2	Refer To Test Graph		Pass			
			Sum	Refer To Test Graph		Pass			
CC1:20	CC1:3560	E-TM1.1	1	Refer To Test Graph		Pass			
			2	Refer To Test Graph		Pass			
			Sum	Refer To Test Graph		Pass			
	CC1:3625	E-TM1.1	1	Refer To Test Graph		Pass			
			2	Refer To Test Graph		Pass			
			Sum	Refer To Test Graph		Pass			
	CC1:3690	E-TM1.1	1	Refer To Test Graph		Pass			
			2	Refer To Test Graph		Pass			
			Sum	Refer To Test Graph		Pass			



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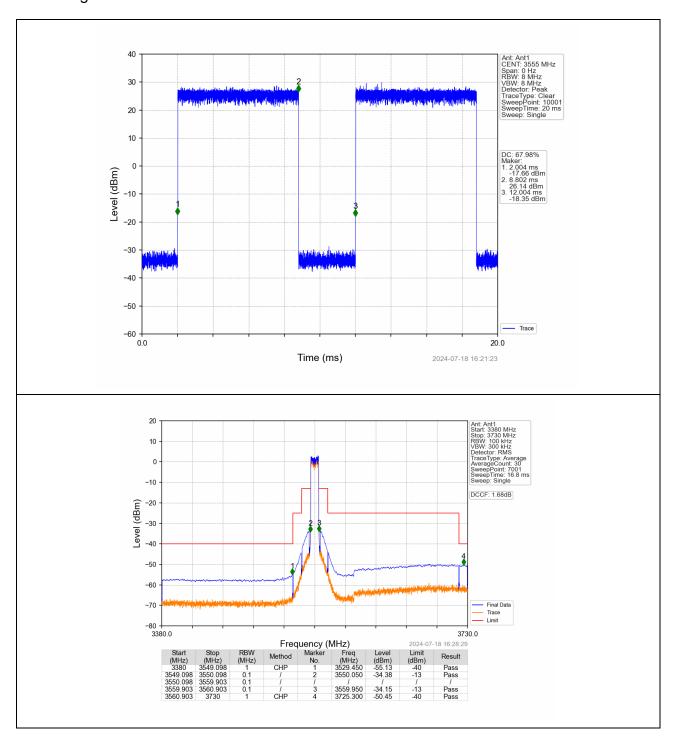
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5.2 Test Graph

5.2.1 Single





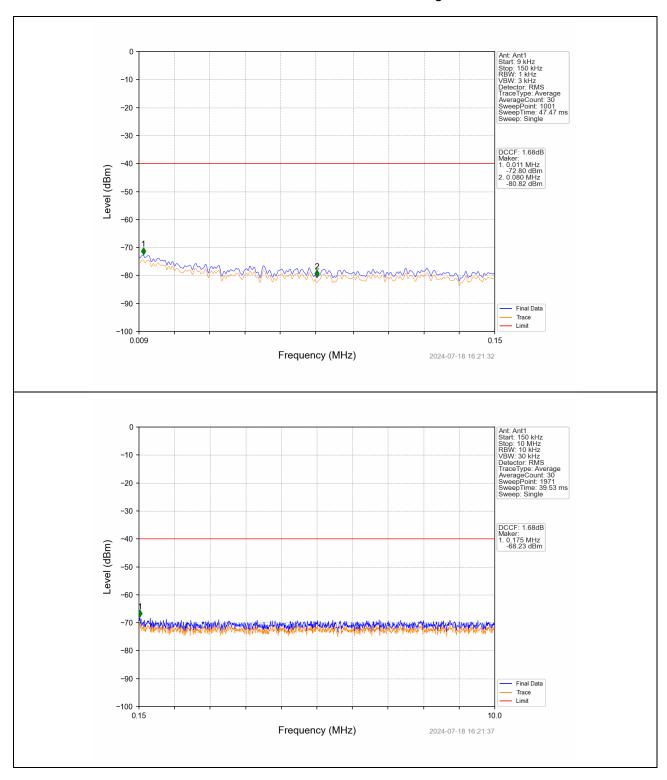
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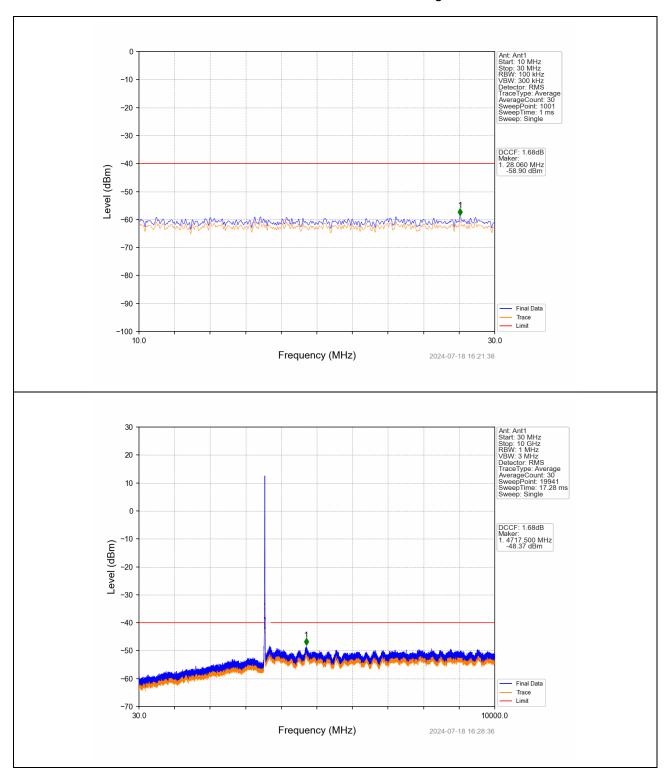
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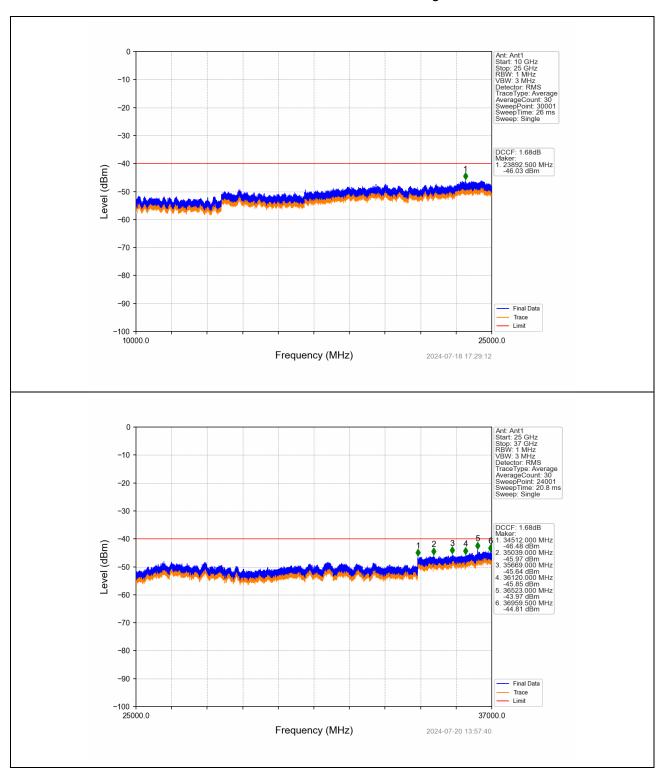


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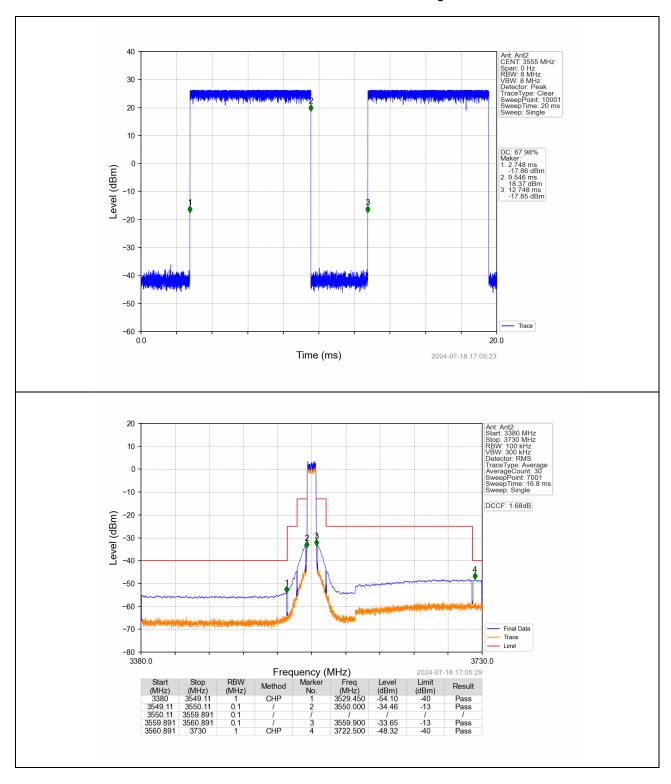
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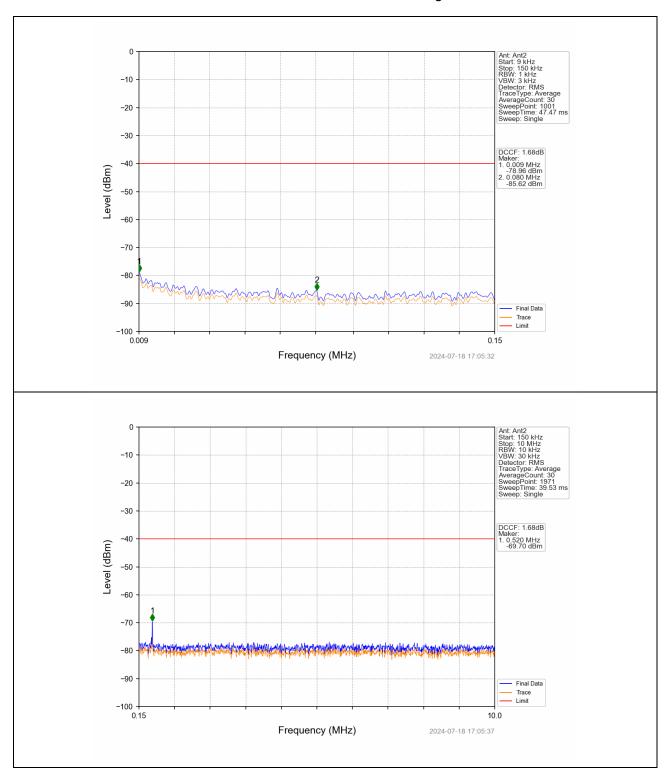
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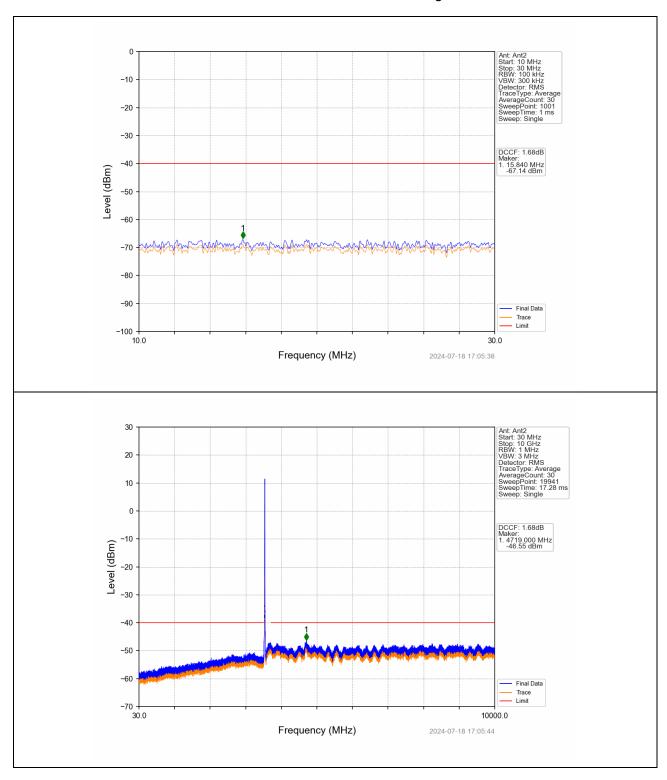
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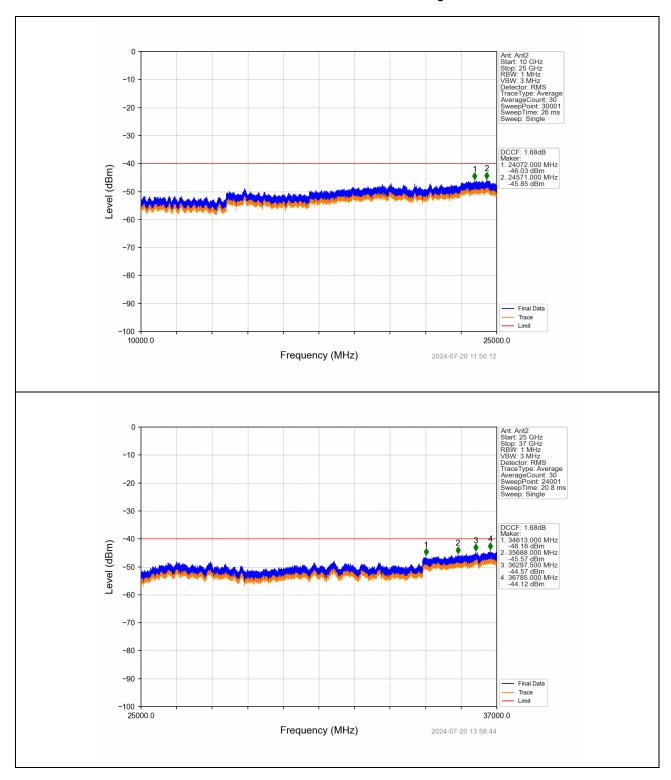
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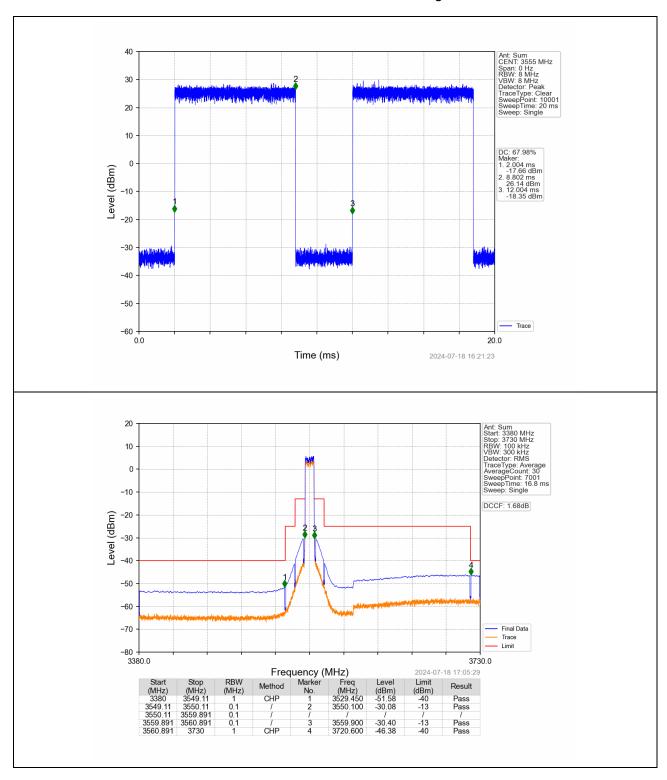
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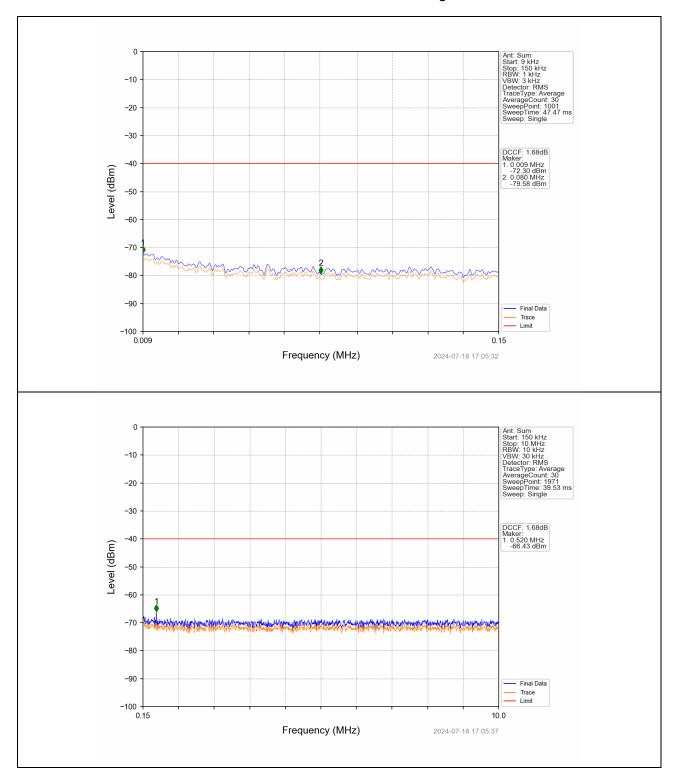
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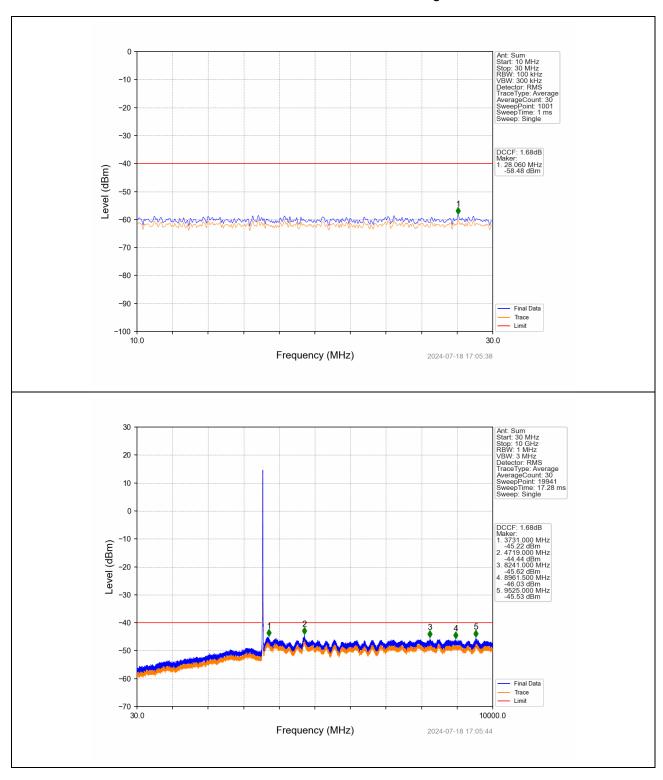
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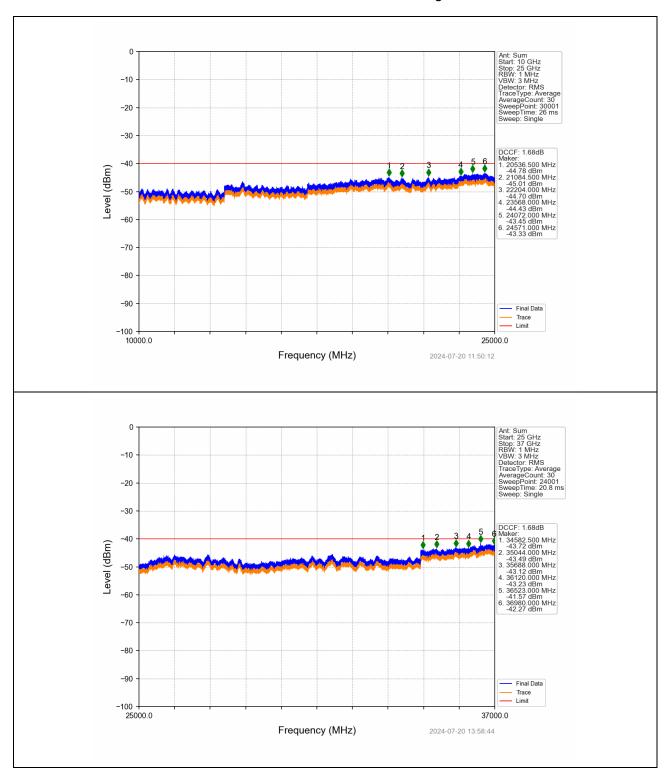
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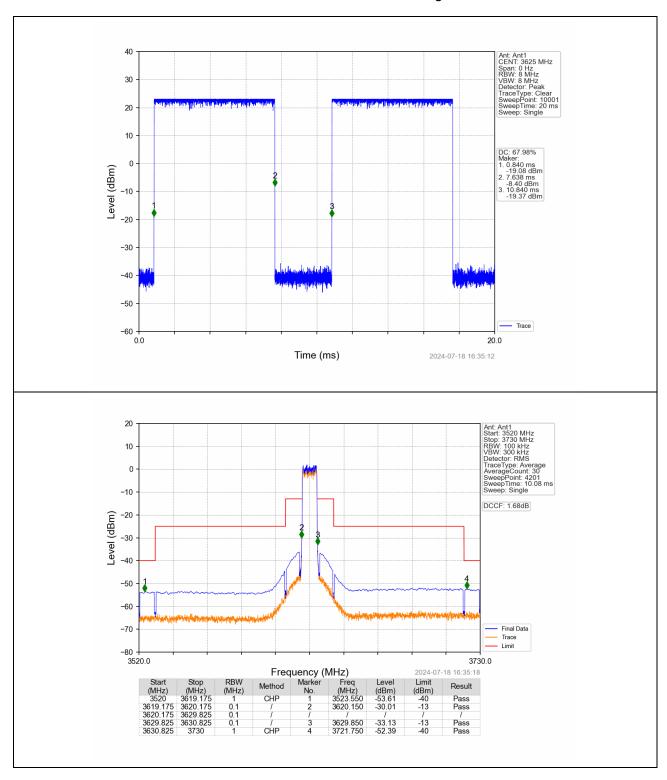
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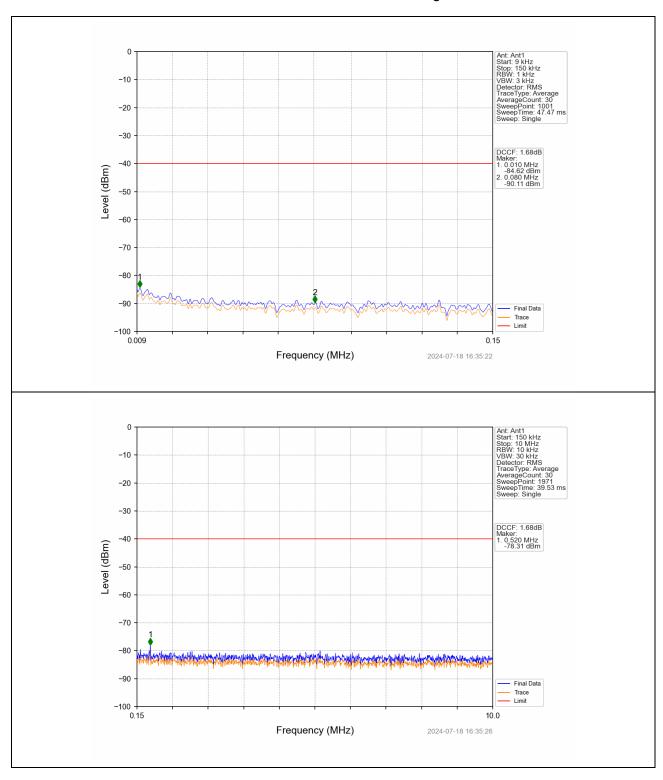
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