

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 Band4_EIRP

Band: 4								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	23.92	-0.80	23.12	<=30	Pass
			1732.6	23.68	-0.80	22.88	<=30	Pass
			1752.6	23.67	-0.80	22.87	<=30	Pass
	HSDPA	Subtest 1	1712.4	21.62	-0.80	20.82	<=30	Pass
		Subtest 2	1712.4	21.62	-0.80	20.82	<=30	Pass
		Subtest 3	1712.4	21.64	-0.80	20.84	<=30	Pass
		Subtest 4	1712.4	21.63	-0.80	20.83	<=30	Pass
		Subtest 1	1732.6	21.92	-0.80	21.12	<=30	Pass
		Subtest 2	1732.6	21.91	-0.80	21.11	<=30	Pass
		Subtest 3	1732.6	21.88	-0.80	21.08	<=30	Pass
		Subtest 4	1732.6	21.89	-0.80	21.09	<=30	Pass
		Subtest 1	1752.6	21.94	-0.80	21.14	<=30	Pass
		Subtest 2	1752.6	21.93	-0.80	21.13	<=30	Pass
		Subtest 3	1752.6	21.94	-0.80	21.14	<=30	Pass
		Subtest 4	1752.6	21.94	-0.80	21.14	<=30	Pass
	HSUPA	Subtest 1	1712.4	19.79	-0.80	18.99	<=30	Pass
		Subtest 2	1712.4	19.79	-0.80	18.99	<=30	Pass
		Subtest 3	1712.4	19.79	-0.80	18.99	<=30	Pass
		Subtest 4	1712.4	19.79	-0.80	18.99	<=30	Pass
		Subtest 5	1712.4	19.96	-0.80	19.16	<=30	Pass
		Subtest 1	1732.6	19.64	-0.80	18.84	<=30	Pass
		Subtest 2	1732.6	19.90	-0.80	19.10	<=30	Pass
		Subtest 3	1732.6	19.90	-0.80	19.10	<=30	Pass
		Subtest 4	1732.6	19.90	-0.80	19.10	<=30	Pass
		Subtest 5	1732.6	20.18	-0.80	19.38	<=30	Pass
		Subtest 1	1752.6	19.78	-0.80	18.98	<=30	Pass
		Subtest 2	1752.6	19.79	-0.80	18.99	<=30	Pass
		Subtest 3	1752.6	19.58	-0.80	18.78	<=30	Pass
		Subtest 4	1752.6	19.78	-0.80	18.98	<=30	Pass
		Subtest 5	1752.6	19.82	-0.80	19.02	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 Band4

Band: 4							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1712.4	20	3.27	2.780	0.0016	-2.5 to 2.5	Pass
			3.85	-0.601	-0.0004	-2.5 to 2.5	Pass
			4.43	-0.218	-0.0001	-2.5 to 2.5	Pass
		-30	3.85	0.583	0.0003	-2.5 to 2.5	Pass
		-20	3.85	-0.790	-0.0005	-2.5 to 2.5	Pass

		-10	3.85	2.410	0.0014	-2.5 to 2.5	Pass
		0	3.85	0.935	0.0005	-2.5 to 2.5	Pass
		10	3.85	0.068	0.0000	-2.5 to 2.5	Pass
		30	3.85	-0.069	0.0000	-2.5 to 2.5	Pass
		40	3.85	2.375	0.0014	-2.5 to 2.5	Pass
	1732.6	50	3.85	0.131	0.0001	-2.5 to 2.5	Pass
		20	3.27	-0.529	-0.0003	-2.5 to 2.5	Pass
			3.85	0.534	0.0003	-2.5 to 2.5	Pass
			4.43	0.538	0.0003	-2.5 to 2.5	Pass
		-30	3.85	-1.794	-0.0010	-2.5 to 2.5	Pass
		-20	3.85	-2.010	-0.0012	-2.5 to 2.5	Pass
		-10	3.85	-1.832	-0.0011	-2.5 to 2.5	Pass
		0	3.85	-1.210	-0.0007	-2.5 to 2.5	Pass
		10	3.85	-1.443	-0.0008	-2.5 to 2.5	Pass
		30	3.85	1.313	0.0008	-2.5 to 2.5	Pass
		40	3.85	-1.251	-0.0007	-2.5 to 2.5	Pass
		50	3.85	2.688	0.0016	-2.5 to 2.5	Pass
	1752.6	20	3.27	-2.632	-0.0015	-2.5 to 2.5	Pass
			3.85	-2.865	-0.0016	-2.5 to 2.5	Pass
			4.43	-1.402	-0.0008	-2.5 to 2.5	Pass
		-30	3.85	-3.806	-0.0022	-2.5 to 2.5	Pass
		-20	3.85	-2.206	-0.0013	-2.5 to 2.5	Pass
		-10	3.85	-3.390	-0.0019	-2.5 to 2.5	Pass
		0	3.85	-3.321	-0.0019	-2.5 to 2.5	Pass
		10	3.85	-5.656	-0.0032	-2.5 to 2.5	Pass
		30	3.85	-2.113	-0.0012	-2.5 to 2.5	Pass
		40	3.85	-2.634	-0.0015	-2.5 to 2.5	Pass
		50	3.85	-2.416	-0.0014	-2.5 to 2.5	Pass
HSDPA	1712.4	20	3.27	1.161	0.0007	-2.5 to 2.5	Pass
			3.85	0.466	0.0003	-2.5 to 2.5	Pass
			4.43	0.539	0.0003	-2.5 to 2.5	Pass
		-30	3.85	-2.562	-0.0015	-2.5 to 2.5	Pass
		-20	3.85	0.351	0.0002	-2.5 to 2.5	Pass
		-10	3.85	2.524	0.0015	-2.5 to 2.5	Pass
		0	3.85	0.905	0.0005	-2.5 to 2.5	Pass
		10	3.85	-0.470	-0.0003	-2.5 to 2.5	Pass
		30	3.85	-0.035	0.0000	-2.5 to 2.5	Pass
		40	3.85	1.925	0.0011	-2.5 to 2.5	Pass
		50	3.85	0.222	0.0001	-2.5 to 2.5	Pass
	1732.6	20	3.27	-0.965	-0.0006	-2.5 to 2.5	Pass
			3.85	-3.238	-0.0019	-2.5 to 2.5	Pass
			4.43	-2.304	-0.0013	-2.5 to 2.5	Pass
		-30	3.85	-2.313	-0.0013	-2.5 to 2.5	Pass
		-20	3.85	-4.139	-0.0024	-2.5 to 2.5	Pass
		-10	3.85	-4.627	-0.0027	-2.5 to 2.5	Pass
		0	3.85	-3.667	-0.0021	-2.5 to 2.5	Pass
		10	3.85	-4.681	-0.0027	-2.5 to 2.5	Pass
		30	3.85	-3.288	-0.0019	-2.5 to 2.5	Pass
		40	3.85	-2.512	-0.0014	-2.5 to 2.5	Pass
		50	3.85	-3.653	-0.0021	-2.5 to 2.5	Pass
	1752.6	20	3.27	-5.259	-0.0030	-2.5 to 2.5	Pass
			3.85	-3.893	-0.0022	-2.5 to 2.5	Pass
			4.43	-6.338	-0.0036	-2.5 to 2.5	Pass
		-30	3.85	-3.700	-0.0021	-2.5 to 2.5	Pass
		-20	3.85	-4.556	-0.0026	-2.5 to 2.5	Pass
		-10	3.85	-6.230	-0.0036	-2.5 to 2.5	Pass
		0	3.85	-6.199	-0.0035	-2.5 to 2.5	Pass
		10	3.85	-3.961	-0.0023	-2.5 to 2.5	Pass
		30	3.85	-4.742	-0.0027	-2.5 to 2.5	Pass

HSUPA	1712.4	40	3.85	-7.527	-0.0043	-2.5 to 2.5	Pass
		50	3.85	-6.796	-0.0039	-2.5 to 2.5	Pass
		20	3.27	17.662	0.0103	-2.5 to 2.5	Pass
			3.85	12.750	0.0074	-2.5 to 2.5	Pass
			4.43	9.862	0.0058	-2.5 to 2.5	Pass
		-30	3.85	9.675	0.0056	-2.5 to 2.5	Pass
		-20	3.85	11.620	0.0068	-2.5 to 2.5	Pass
		-10	3.85	15.014	0.0088	-2.5 to 2.5	Pass
		0	3.85	11.033	0.0064	-2.5 to 2.5	Pass
		10	3.85	17.254	0.0101	-2.5 to 2.5	Pass
		30	3.85	16.335	0.0095	-2.5 to 2.5	Pass
		40	3.85	14.743	0.0086	-2.5 to 2.5	Pass
		50	3.85	10.630	0.0062	-2.5 to 2.5	Pass
	1732.6	20	3.27	12.783	0.0074	-2.5 to 2.5	Pass
			3.85	11.157	0.0064	-2.5 to 2.5	Pass
			4.43	12.186	0.0070	-2.5 to 2.5	Pass
		-30	3.85	13.766	0.0079	-2.5 to 2.5	Pass
		-20	3.85	6.659	0.0038	-2.5 to 2.5	Pass
		-10	3.85	9.445	0.0055	-2.5 to 2.5	Pass
		0	3.85	7.374	0.0043	-2.5 to 2.5	Pass
		10	3.85	10.619	0.0061	-2.5 to 2.5	Pass
		30	3.85	12.404	0.0072	-2.5 to 2.5	Pass
		40	3.85	9.901	0.0057	-2.5 to 2.5	Pass
		50	3.85	9.316	0.0054	-2.5 to 2.5	Pass
	1752.6	20	3.27	13.534	0.0077	-2.5 to 2.5	Pass
			3.85	8.609	0.0049	-2.5 to 2.5	Pass
			4.43	10.456	0.0060	-2.5 to 2.5	Pass
		-30	3.85	11.378	0.0065	-2.5 to 2.5	Pass
		-20	3.85	9.524	0.0054	-2.5 to 2.5	Pass
		-10	3.85	10.361	0.0059	-2.5 to 2.5	Pass
		0	3.85	12.193	0.0070	-2.5 to 2.5	Pass
		10	3.85	9.538	0.0054	-2.5 to 2.5	Pass
		30	3.85	6.647	0.0038	-2.5 to 2.5	Pass
		40	3.85	6.316	0.0036	-2.5 to 2.5	Pass
		50	3.85	9.914	0.0057	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band4_OBW

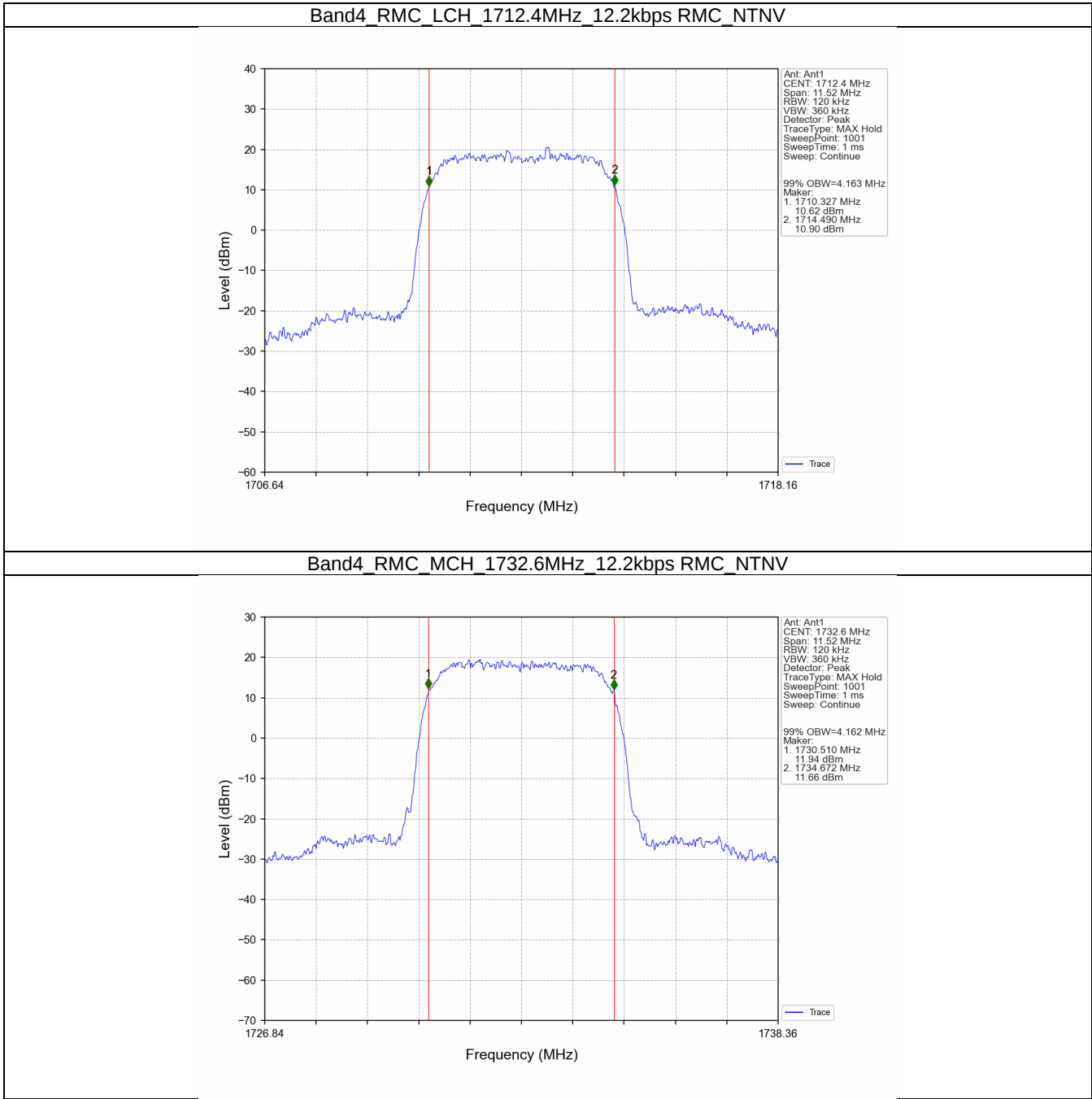
Band: 4						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.163	/	Pass
			1732.6	4.162	/	Pass
			1752.6	4.161	/	Pass
	HSDPA	Subtest 1	1712.4	4.175	/	Pass
			1732.6	4.160	/	Pass
			1752.6	4.165	/	Pass
	HSUPA	Subtest 1	1712.4	4.172	/	Pass
			1732.6	4.158	/	Pass
			1752.6	4.171	/	Pass

3.1.2 Band4_XDB

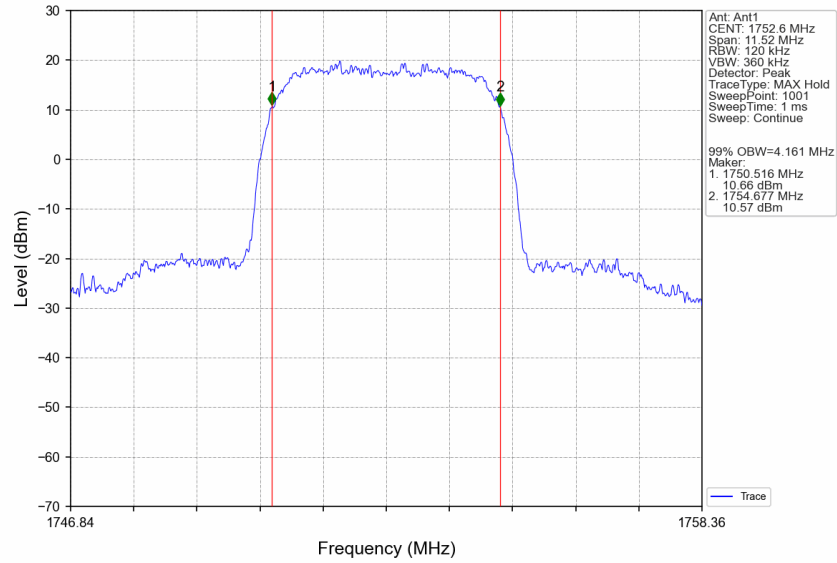
Band: 4						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.747	/	Pass
			1732.6	4.738	/	Pass
			1752.6	4.765	/	Pass
	HSDPA	Subtest 1	1712.4	4.756	/	Pass
			1732.6	4.718	/	Pass
			1752.6	4.731	/	Pass
	HSUPA	Subtest 1	1712.4	4.731	/	Pass
			1732.6	4.739	/	Pass
			1752.6	4.746	/	Pass

3.2 Test Graph

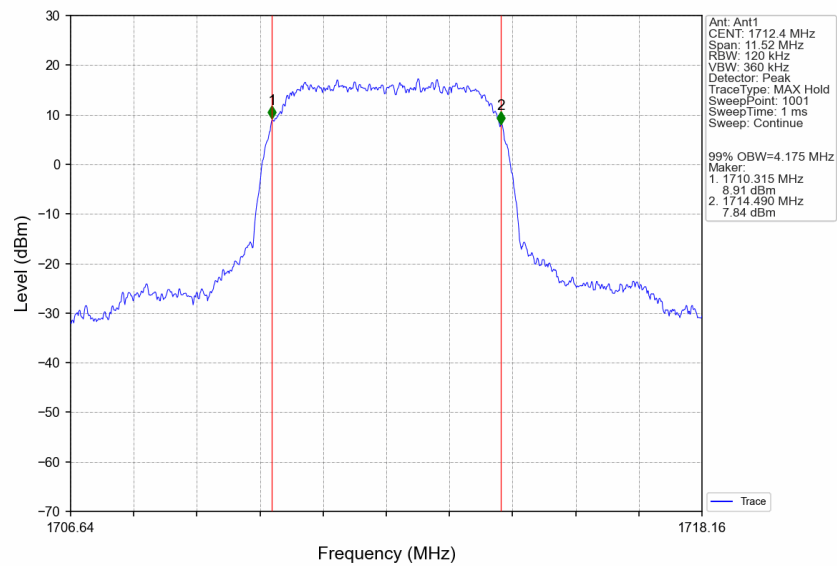
3.2.1 Band4_OBW



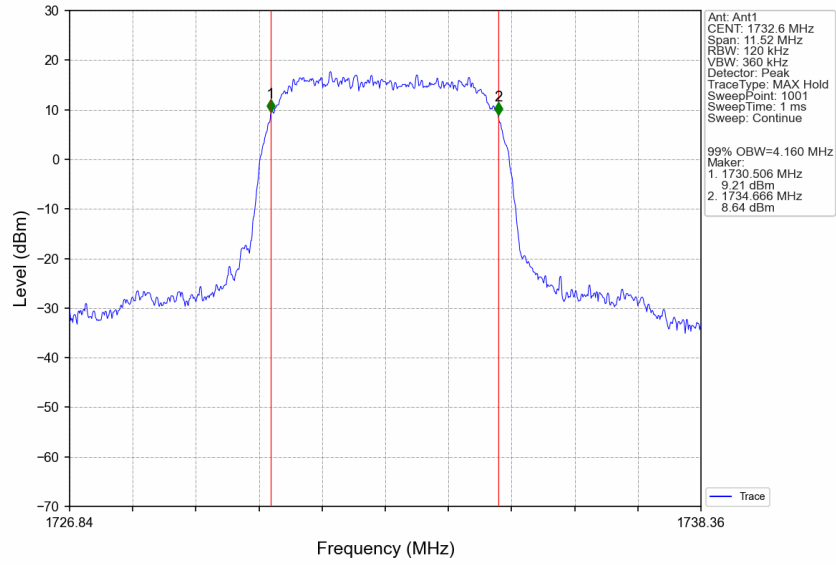
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



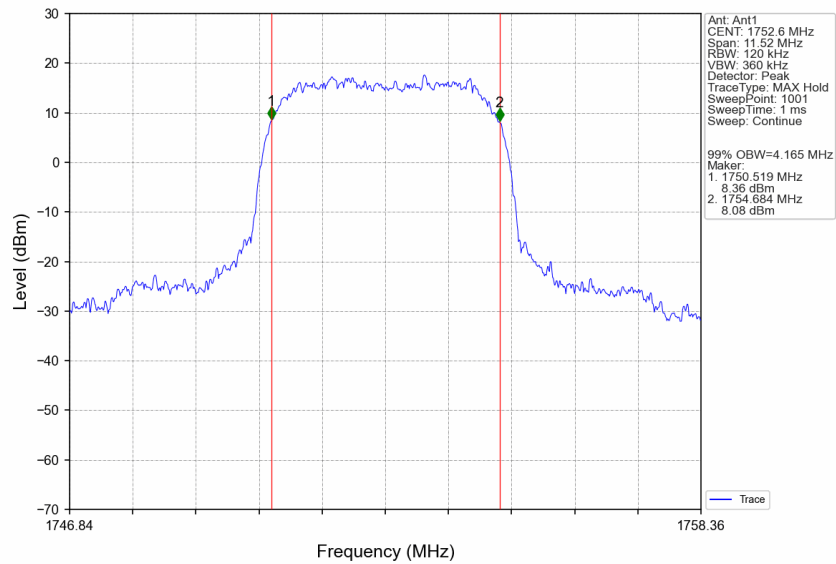
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



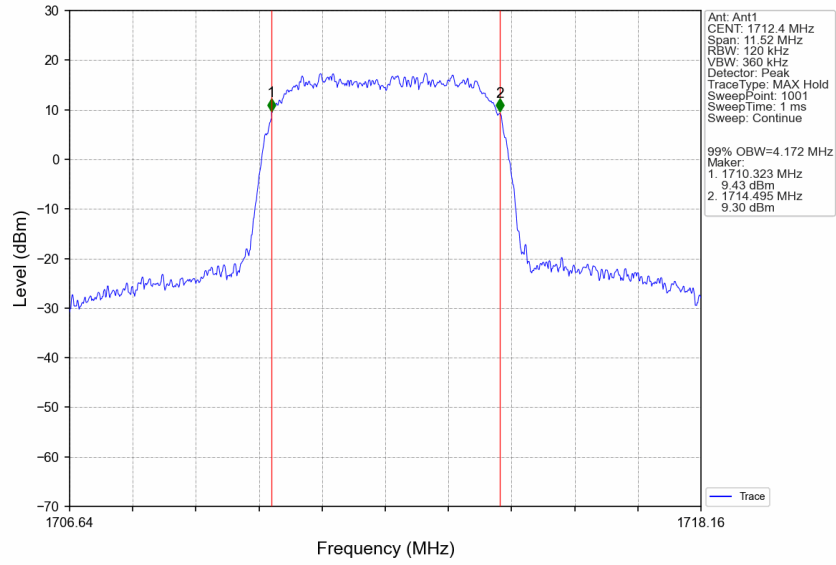
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



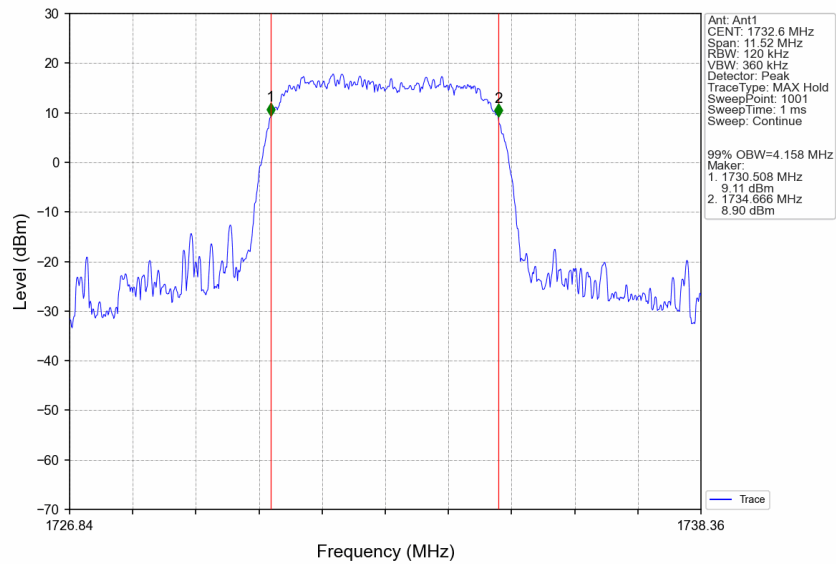
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



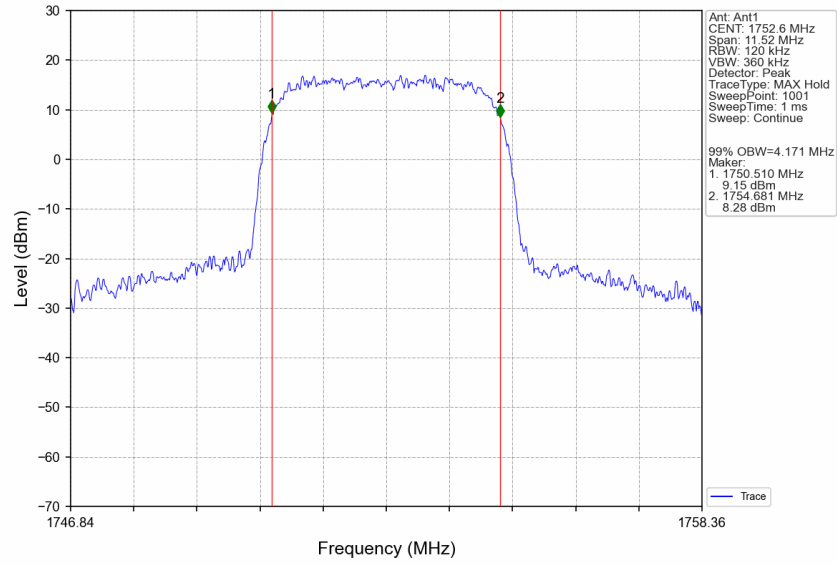
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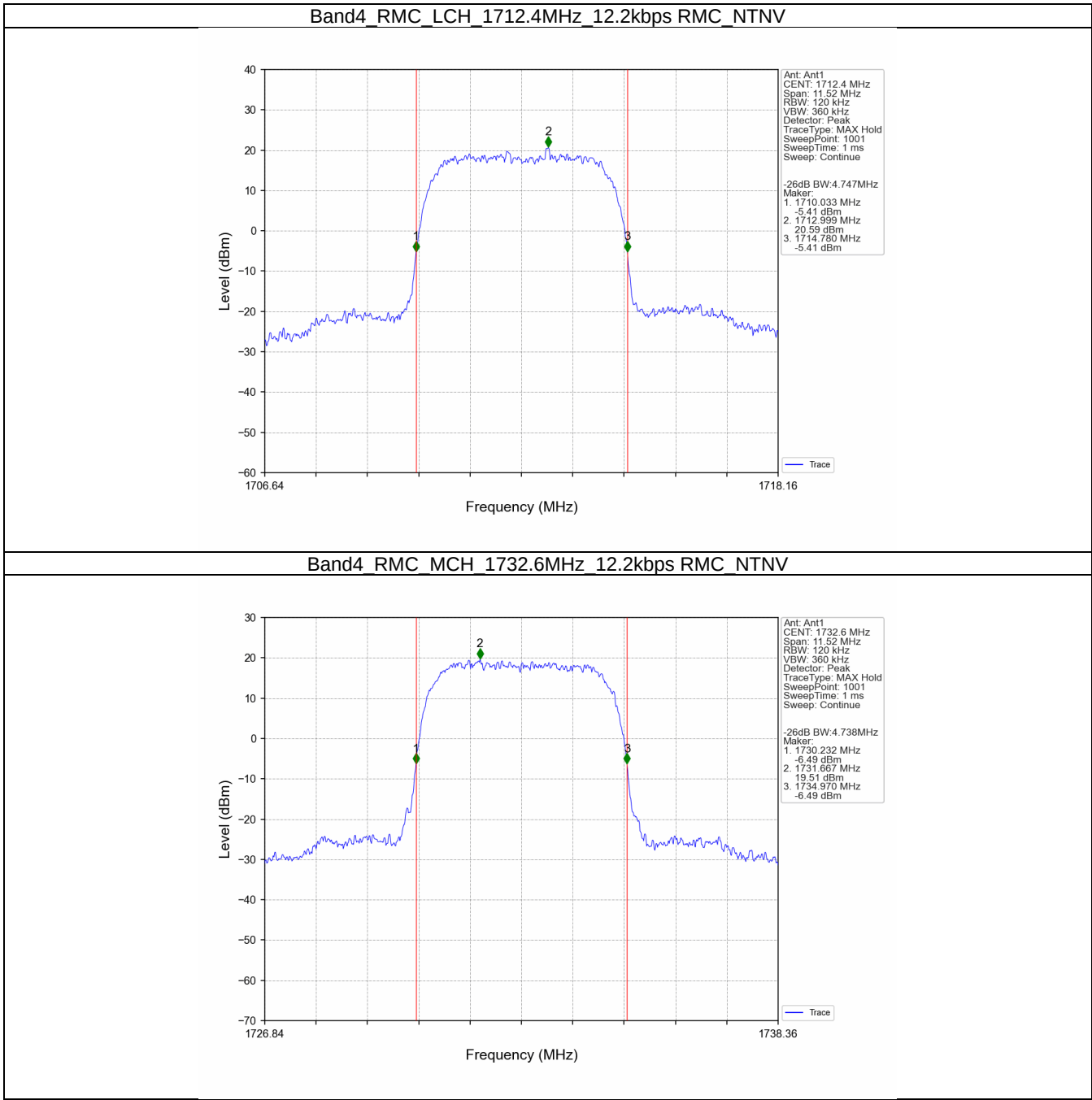
Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



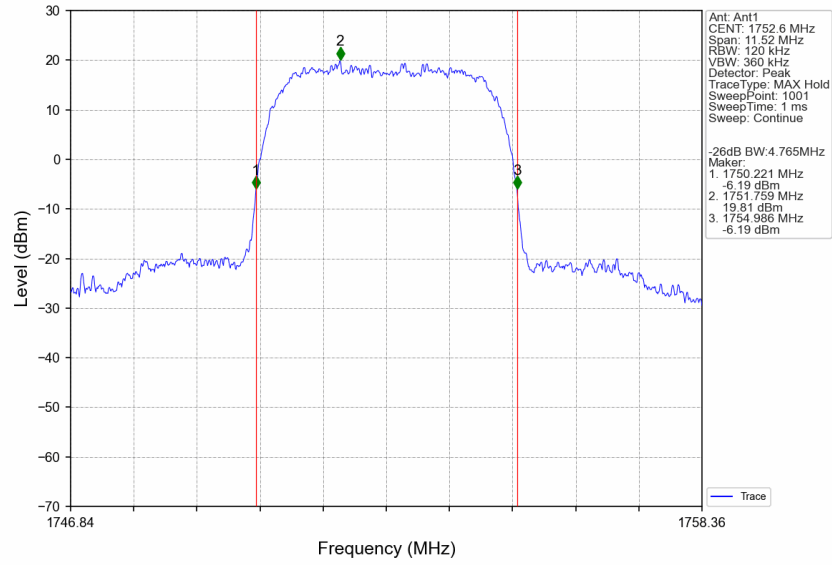
Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



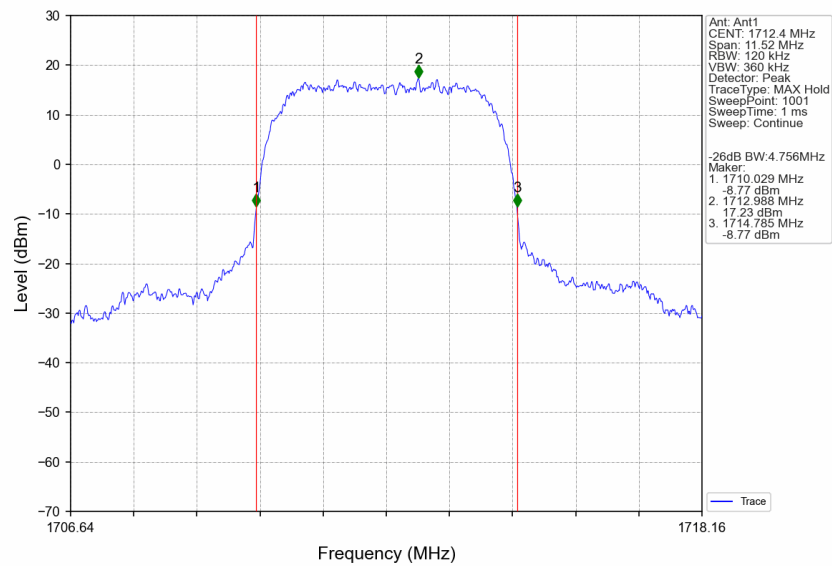
3.2.2 Band4_XDB



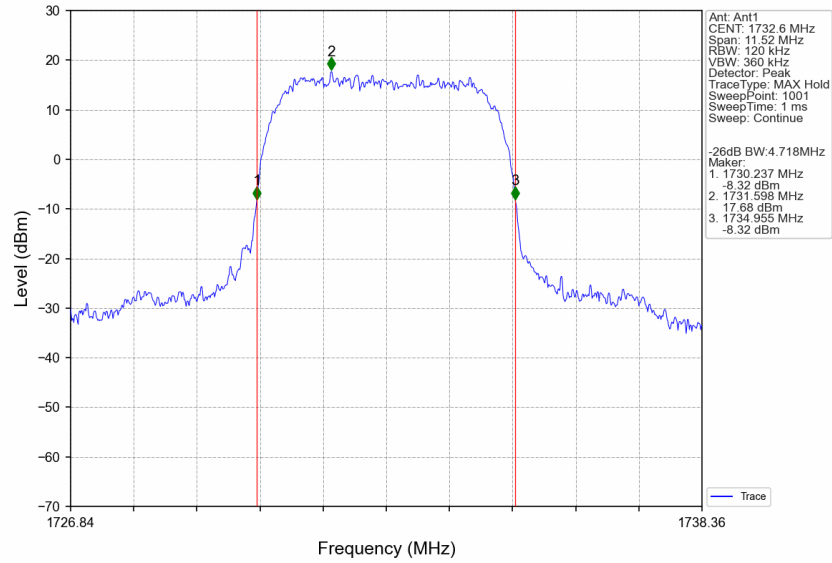
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



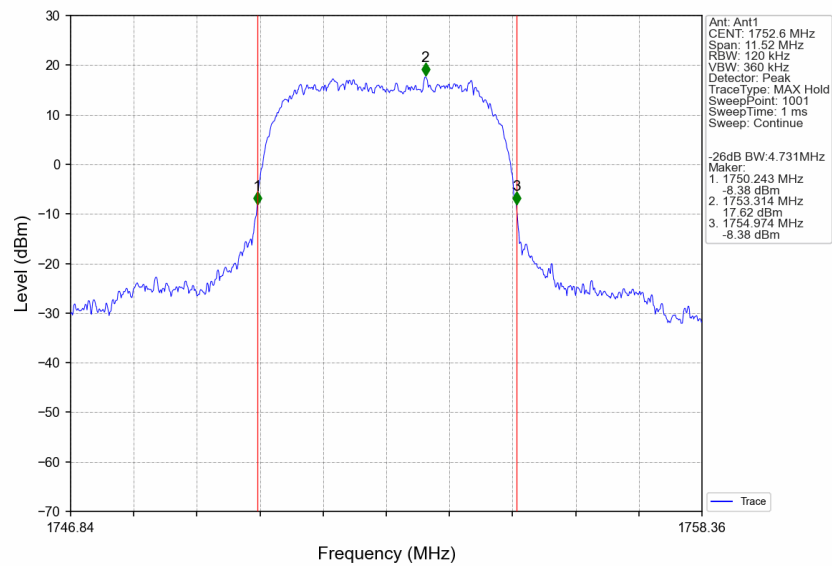
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



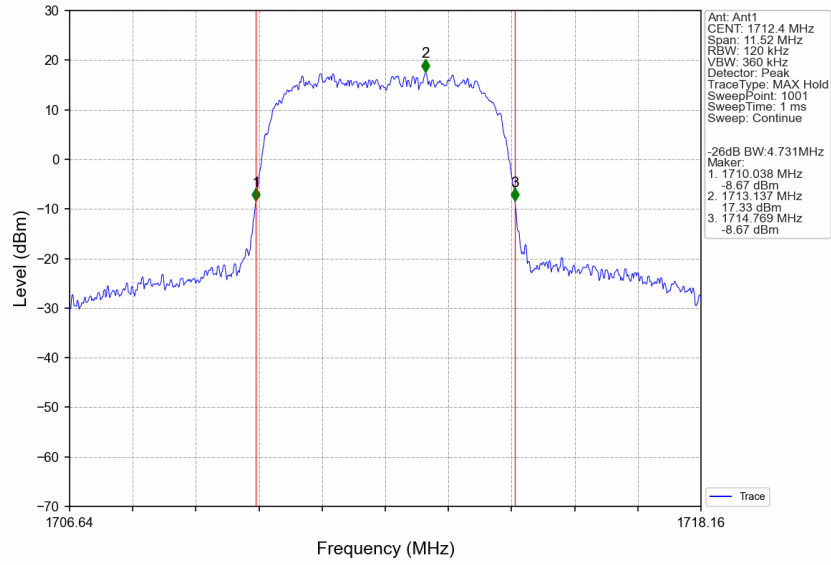
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



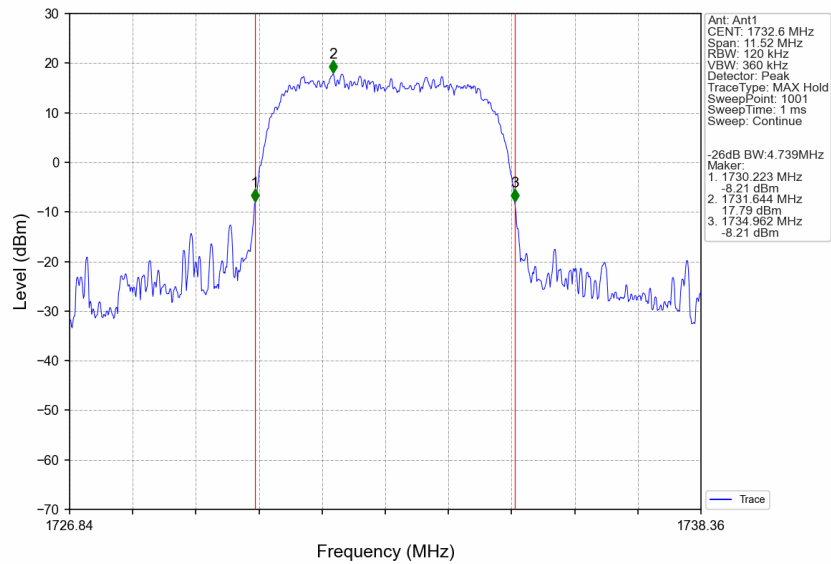
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



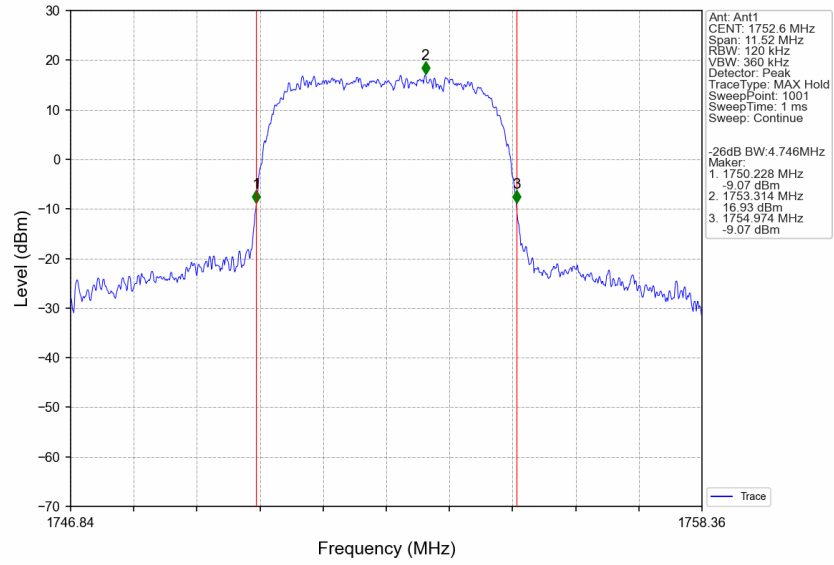
Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



4. Peak-Average Ratio

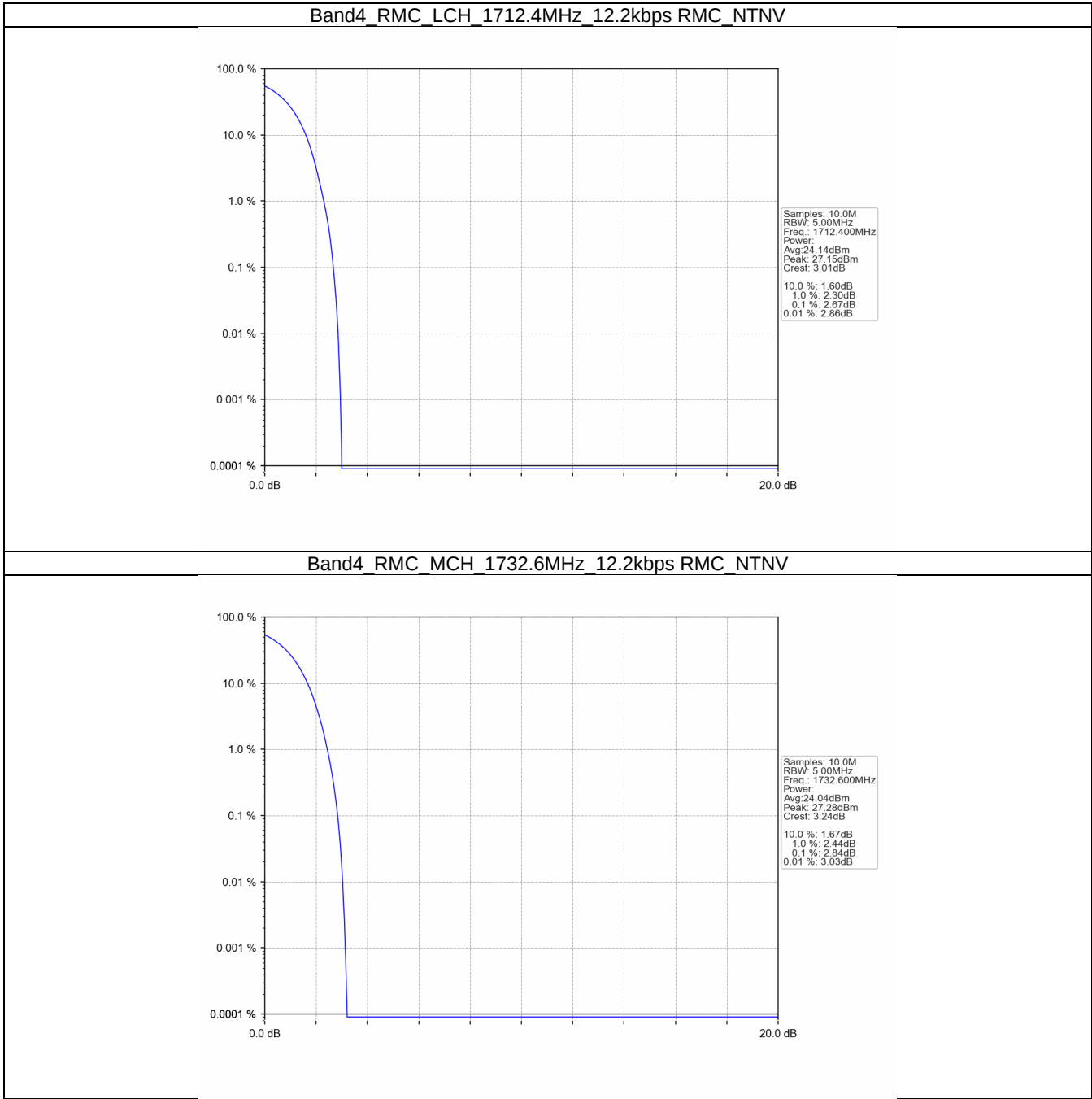
4.1 Test Result

4.1.1 Band4

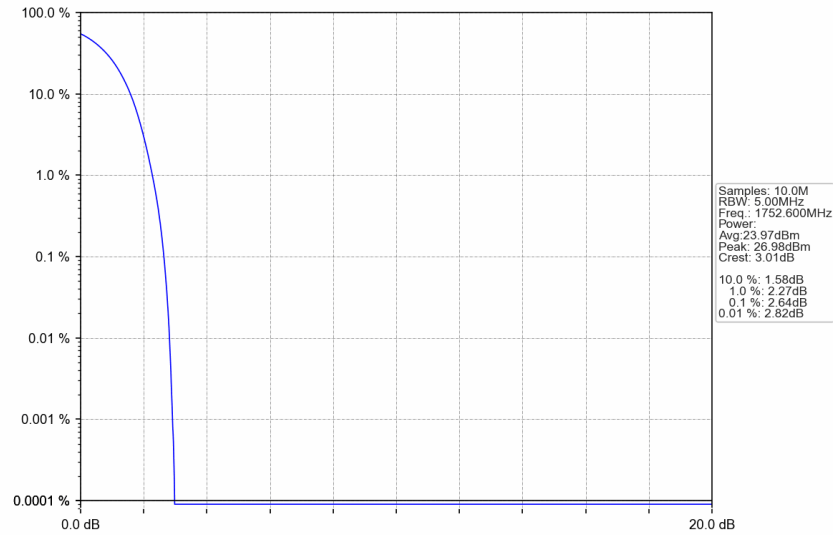
Band: 4						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	2.67	<=13	Pass
			1732.6	2.84	<=13	Pass
			1752.6	2.64	<=13	Pass
	HSDPA	Subtest 1	1712.4	5.68	<=13	Pass
			1732.6	5.96	<=13	Pass
			1752.6	5.66	<=13	Pass
	HSUPA	Subtest 1	1712.4	6.52	<=13	Pass
			1732.6	6.81	<=13	Pass
			1752.6	6.50	<=13	Pass

4.2 Test Graph

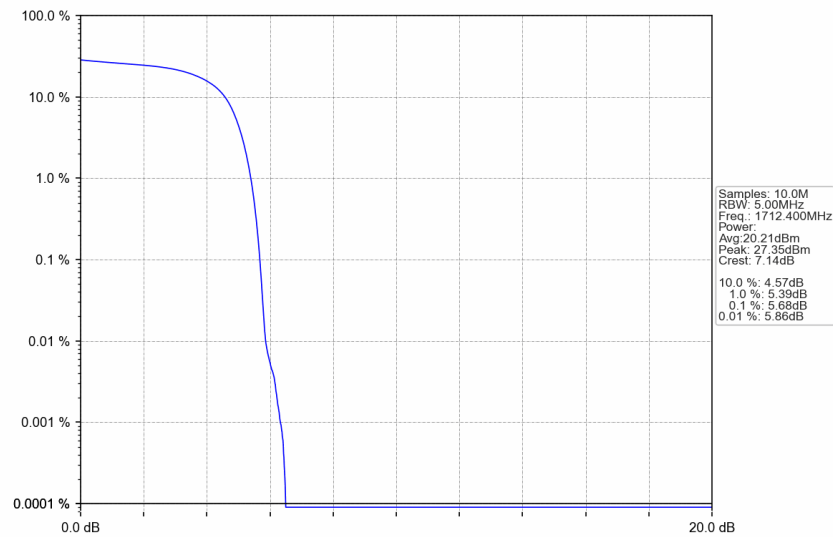
4.2.1 Band4



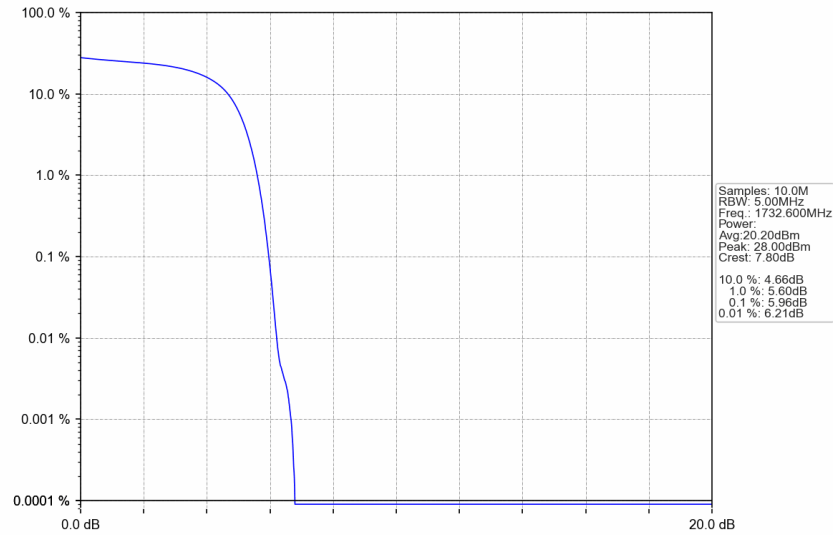
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



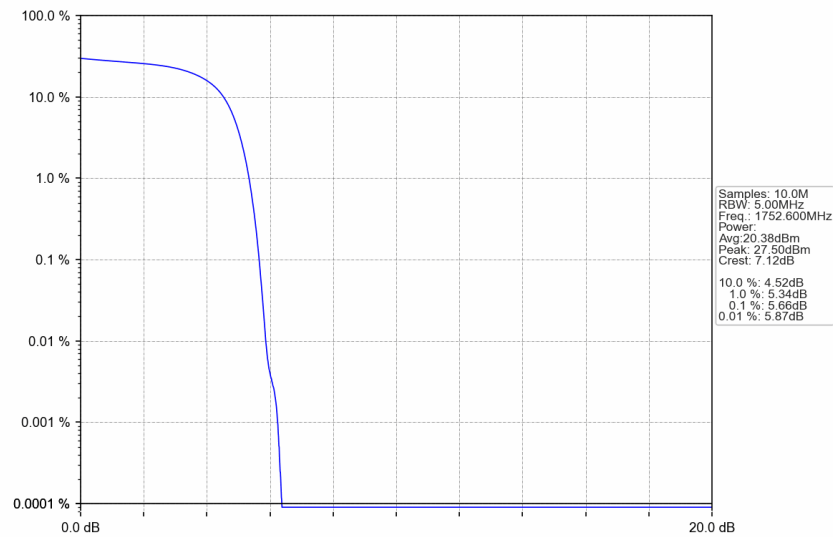
Band4_HSDPA_LCH_1712.4MHz_Subtest 1_NTNV



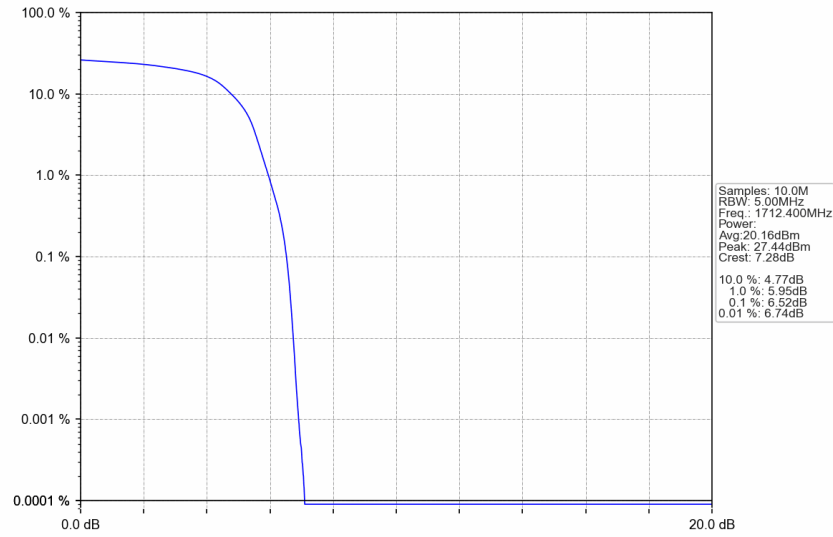
Band4_HSDPA_MCH_1732.6MHz_Subtest 1_NTNV



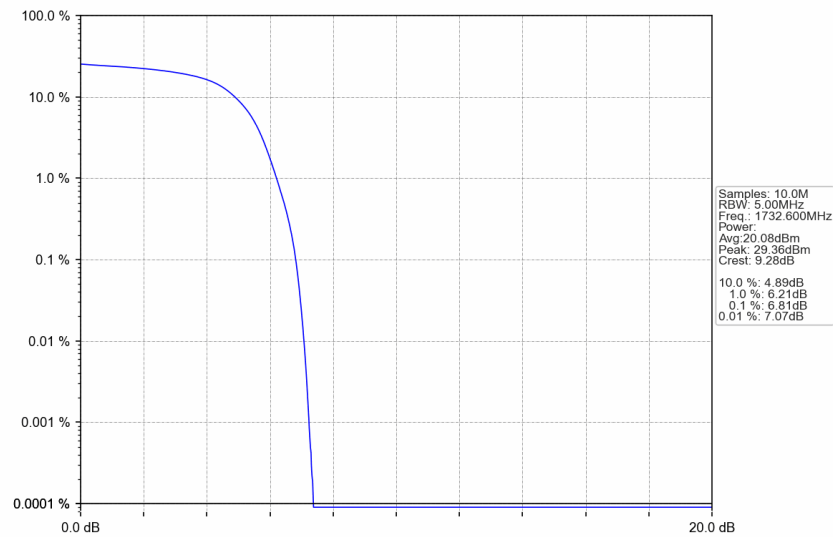
Band4_HSDPA_HCH_1752.6MHz_Subtest 1_NTNV



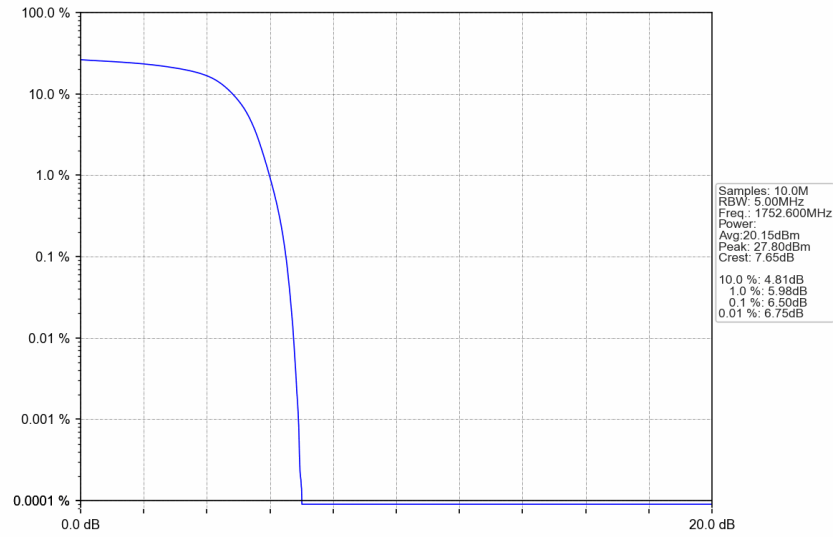
Band4_HSUPA_LCH_1712.4MHz_Subtest 1_NTNV



Band4_HSUPA_MCH_1732.6MHz_Subtest 1_NTNV



Band4 HSUPA HCH 1752.6MHz_Subtest 1_NTNV



5. Spurious Emission

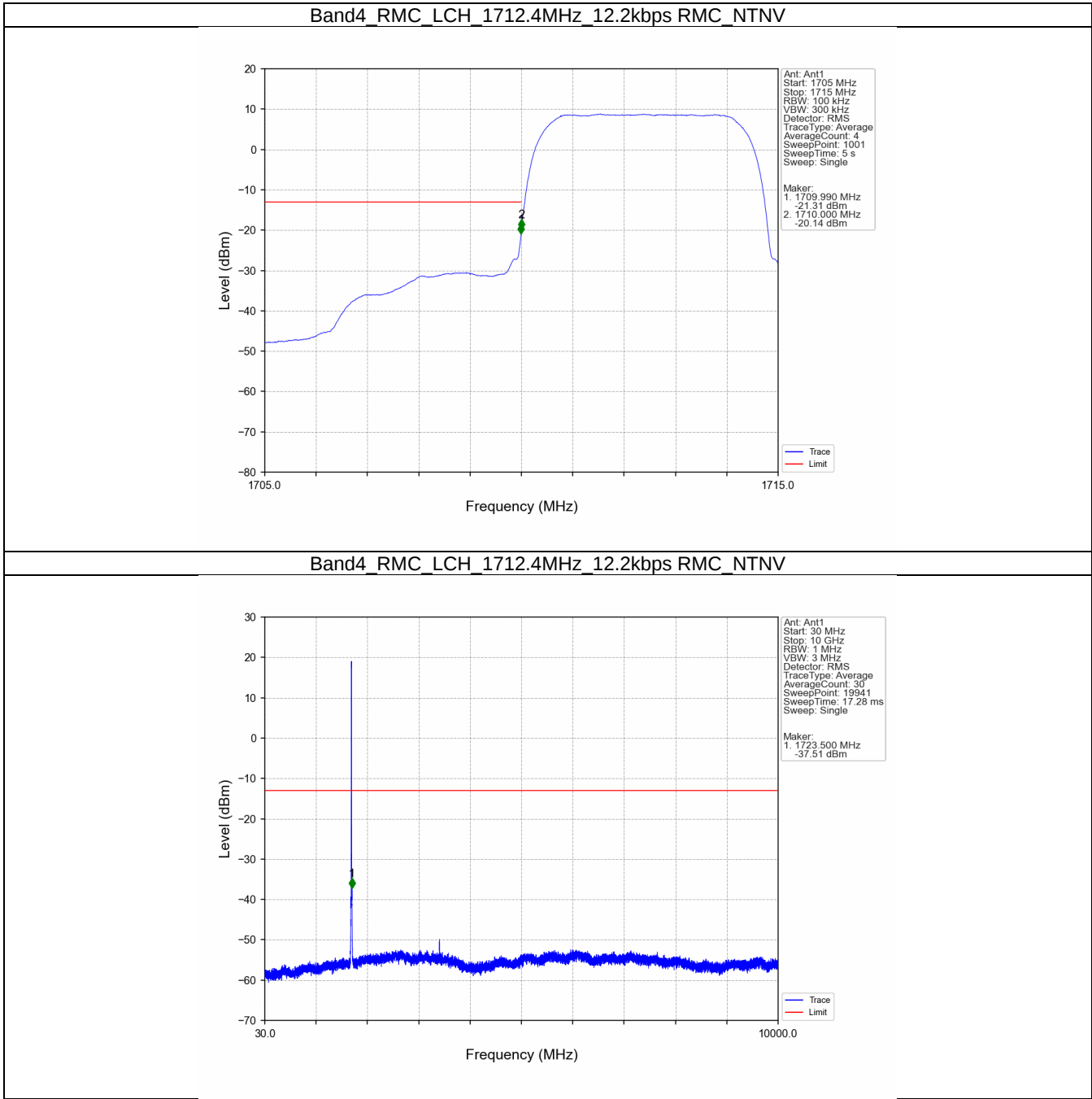
5.1 Test Result

5.1.1 Band4

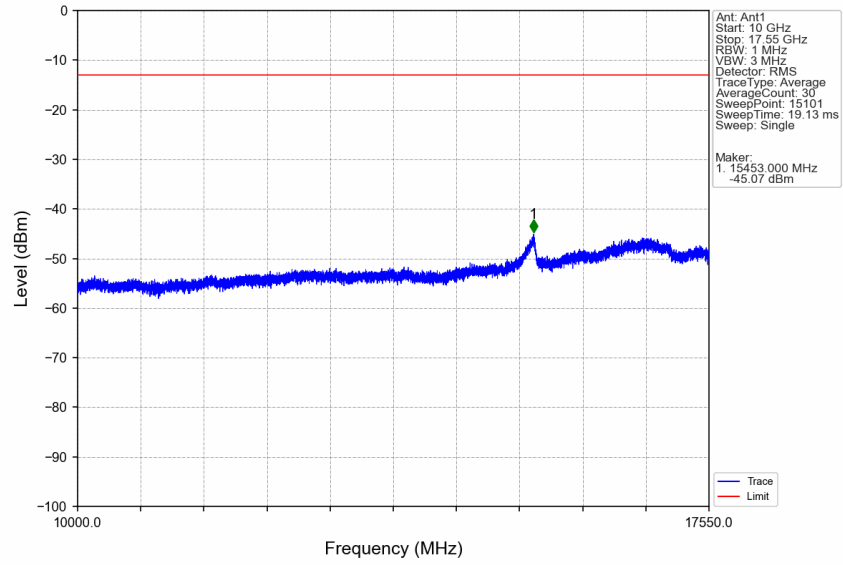
Band: 4						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	Refer To Test Graph	Pass	
			1732.6	Refer To Test Graph	Pass	
			1752.6	Refer To Test Graph	Pass	
	HSDPA	Subtest 1	1712.4	Refer To Test Graph	Pass	
			1732.6	Refer To Test Graph	Pass	
			1752.6	Refer To Test Graph	Pass	
	HSUPA	Subtest 1	1712.4	Refer To Test Graph	Pass	
			1732.6	Refer To Test Graph	Pass	
			1752.6	Refer To Test Graph	Pass	

5.2 Test Graph

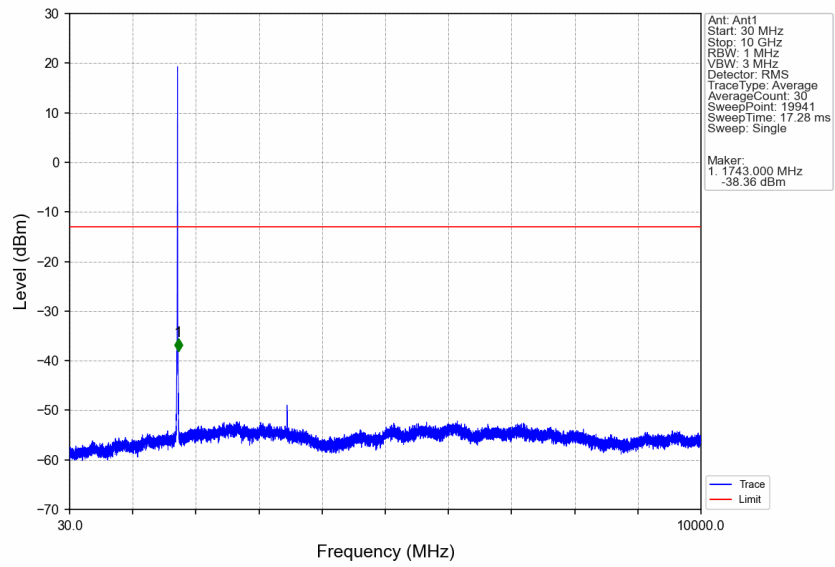
5.2.1 Band4



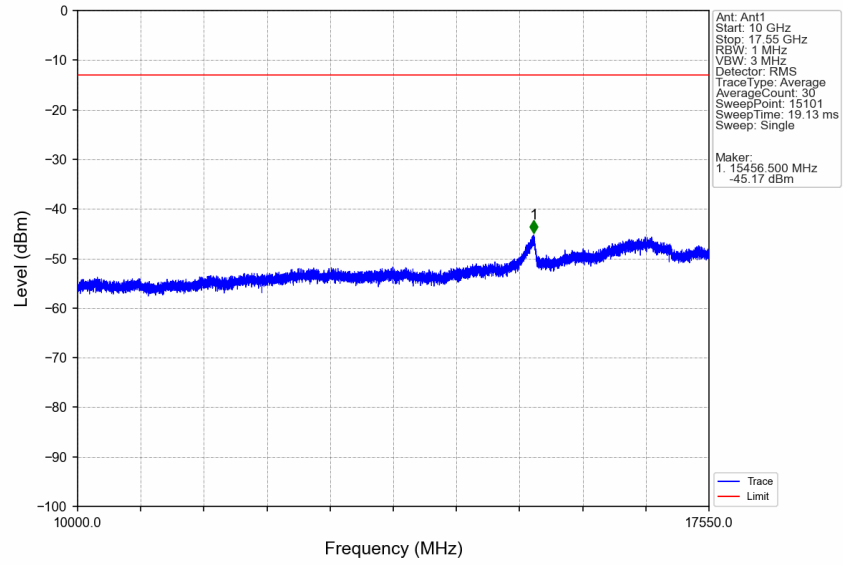
Band4_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



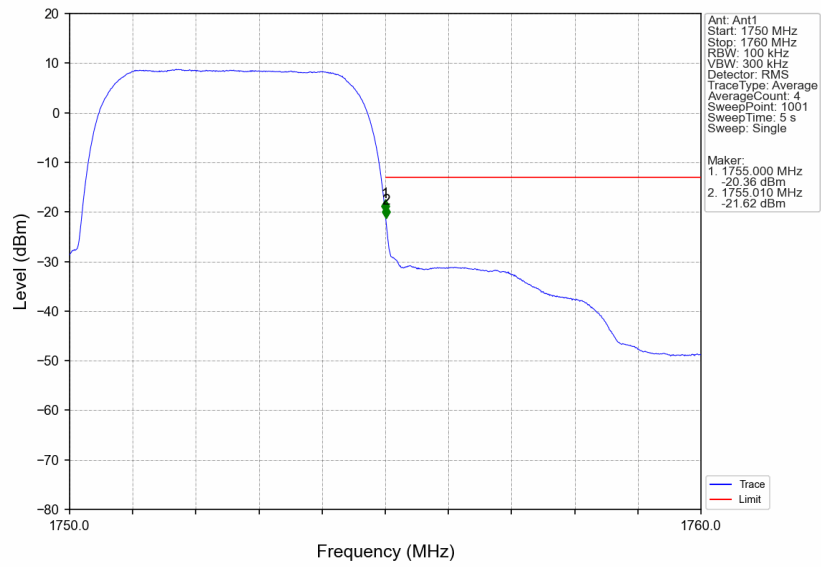
Band4_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



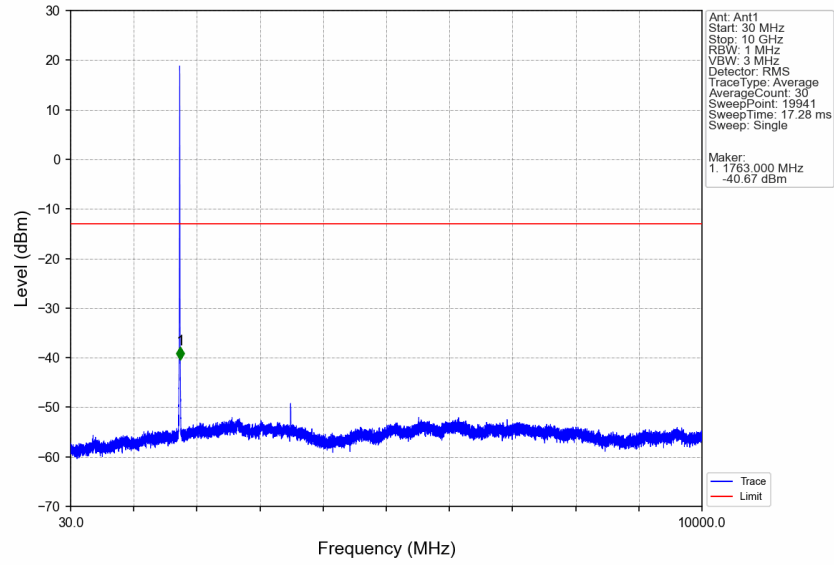
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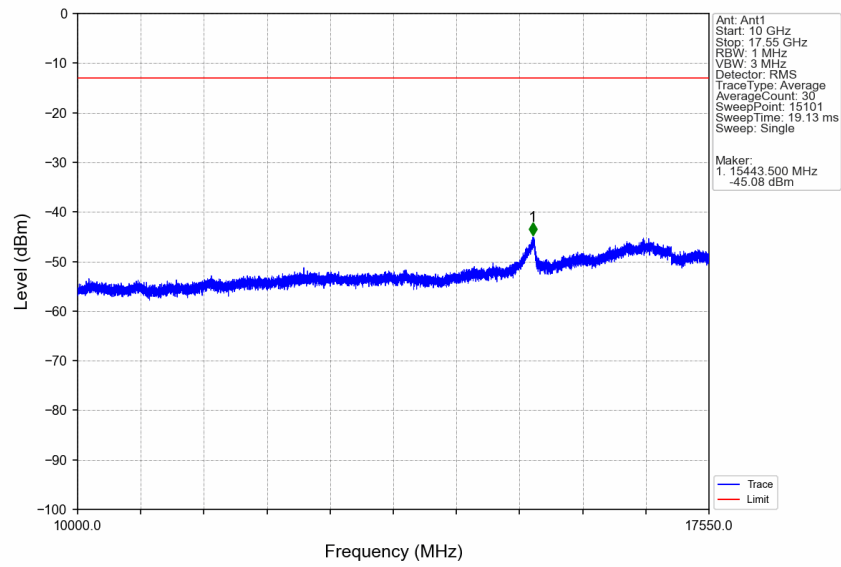
Band4_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



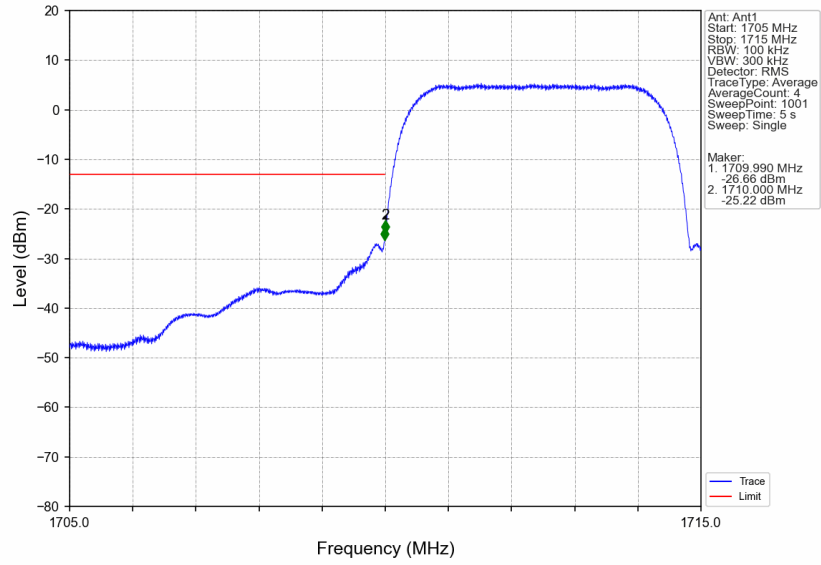
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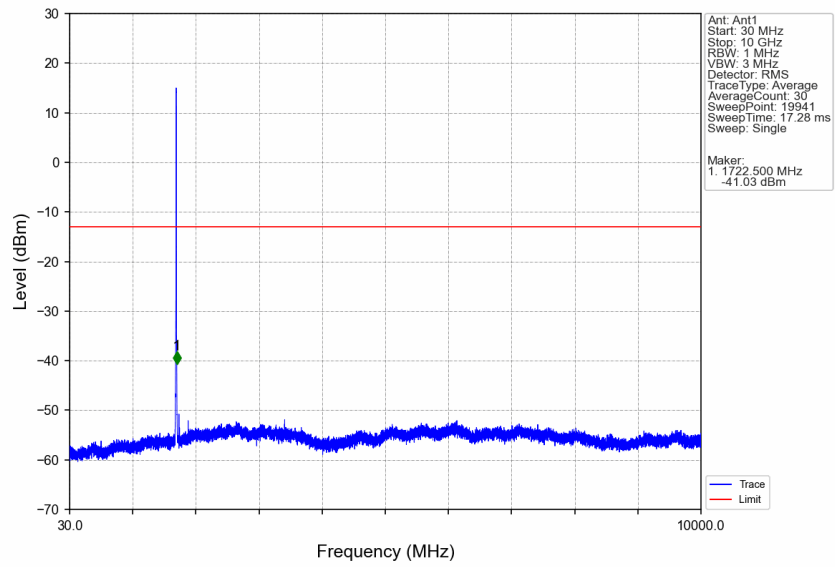
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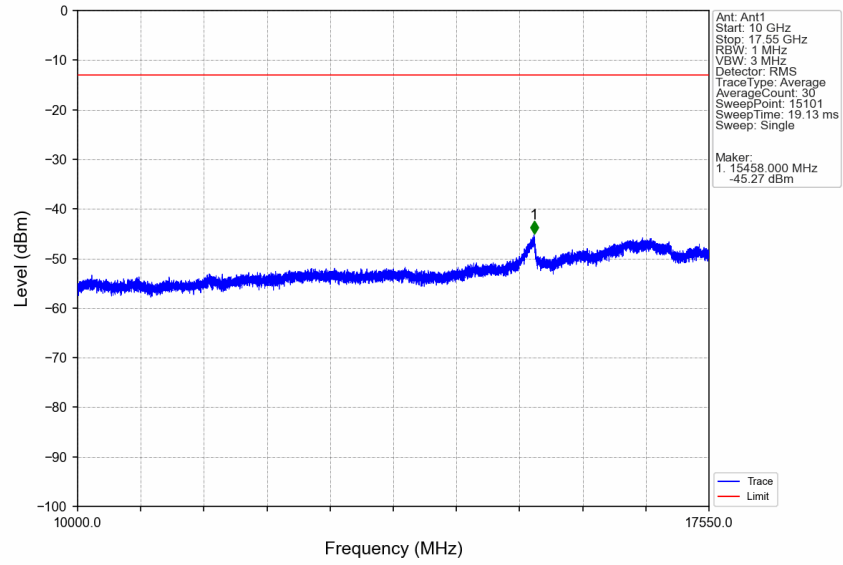
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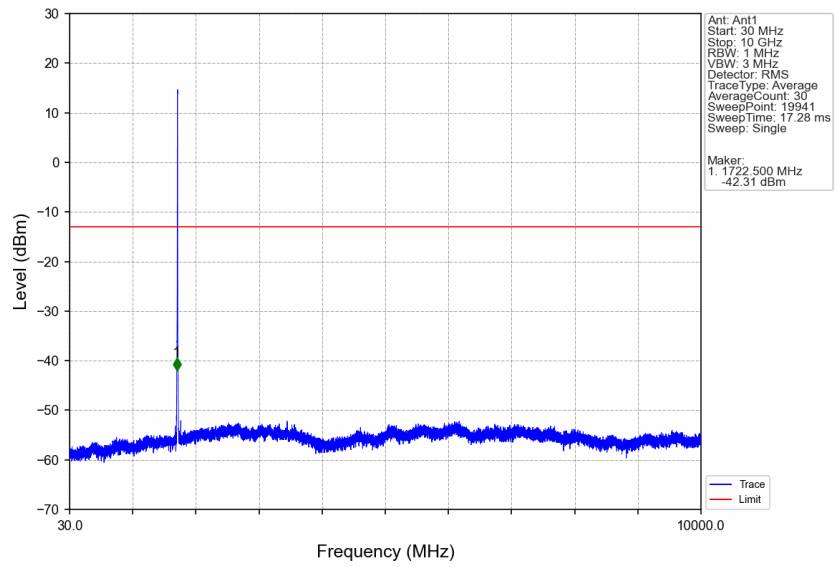
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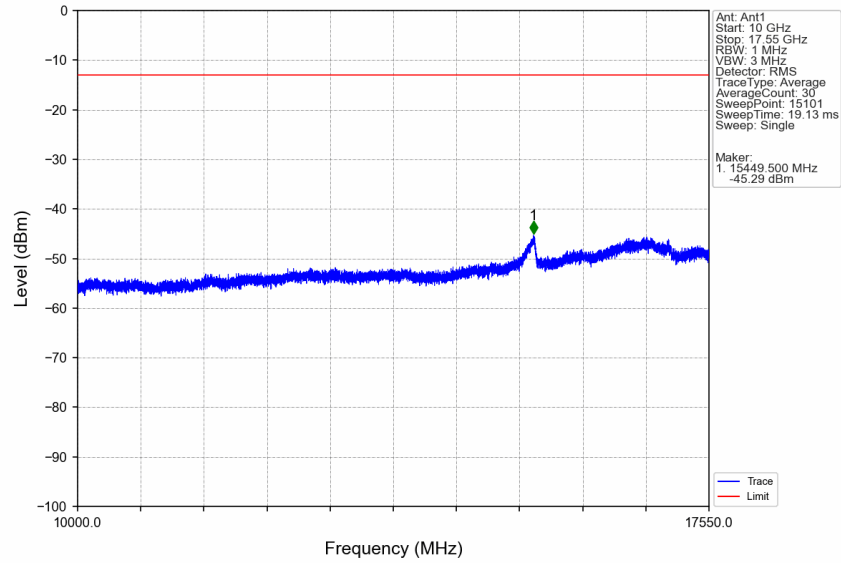
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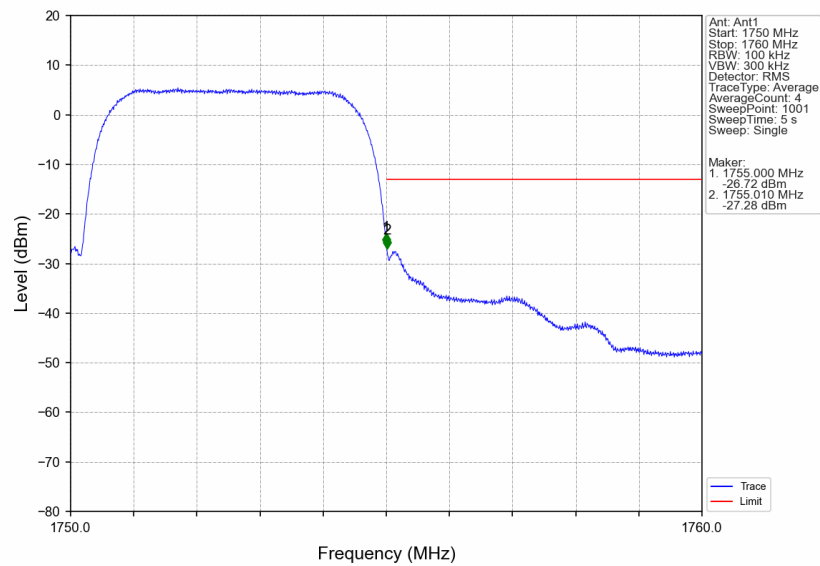
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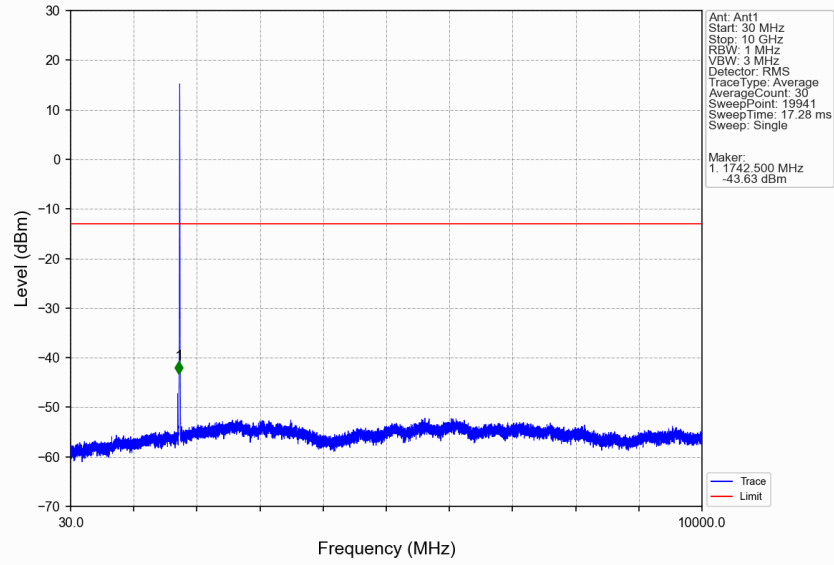
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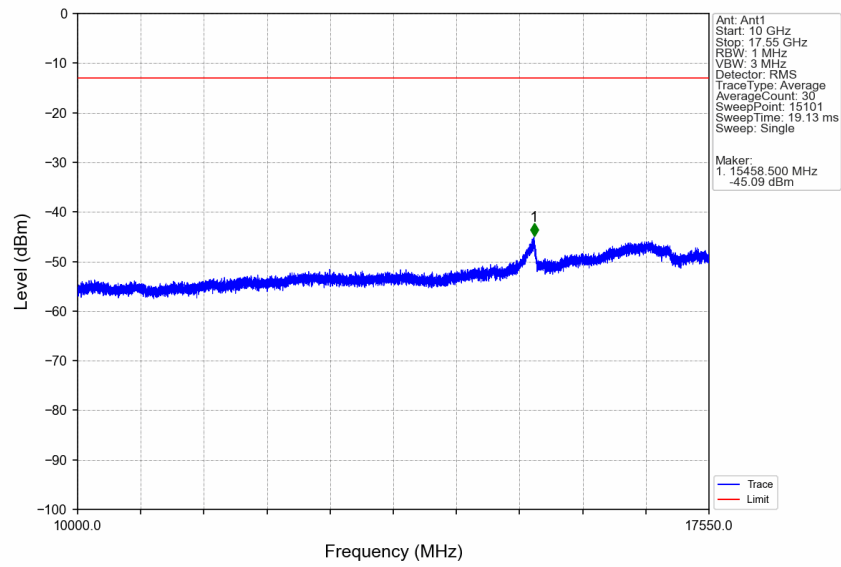
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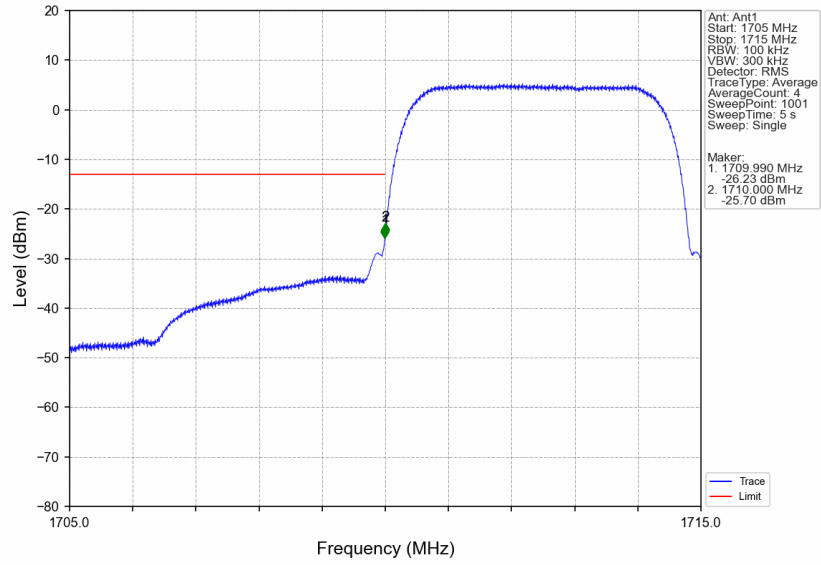
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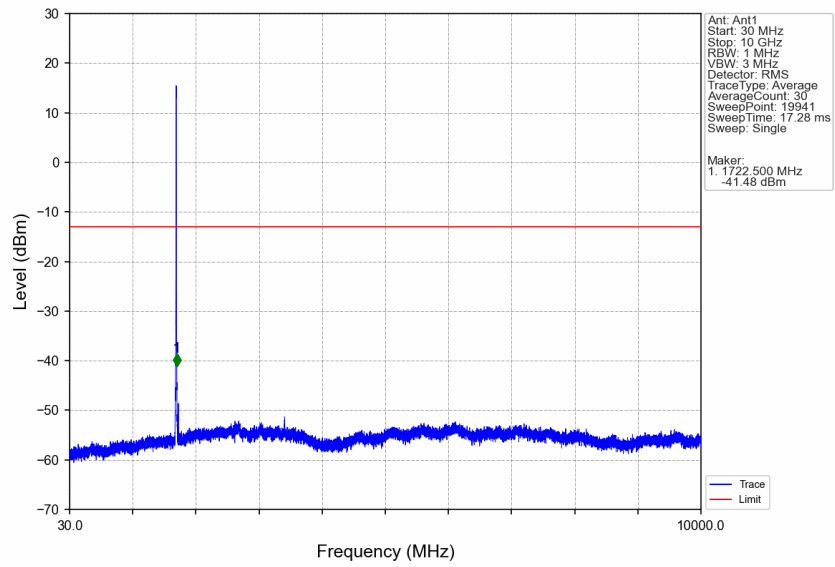
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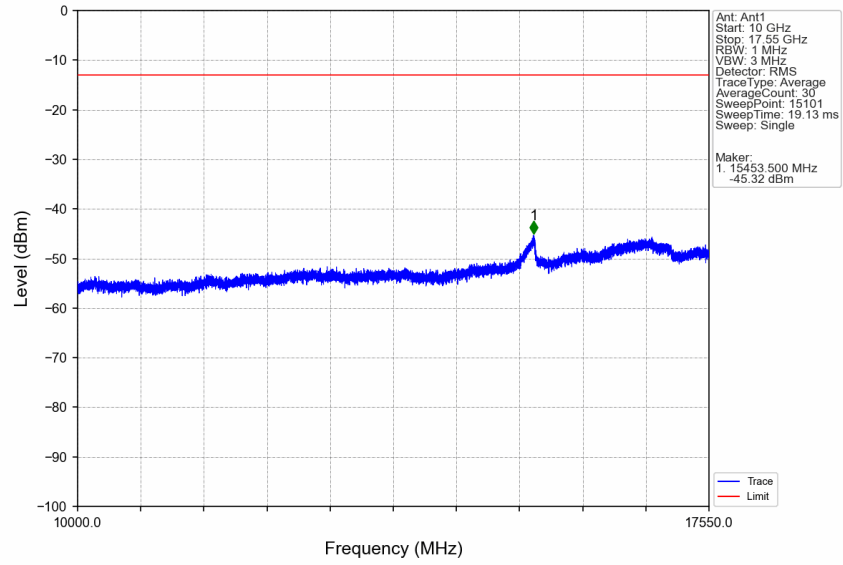
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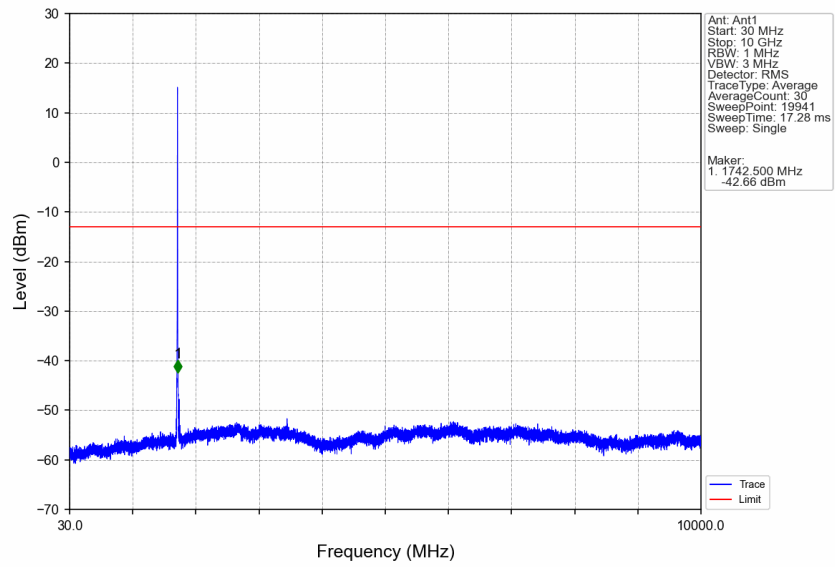
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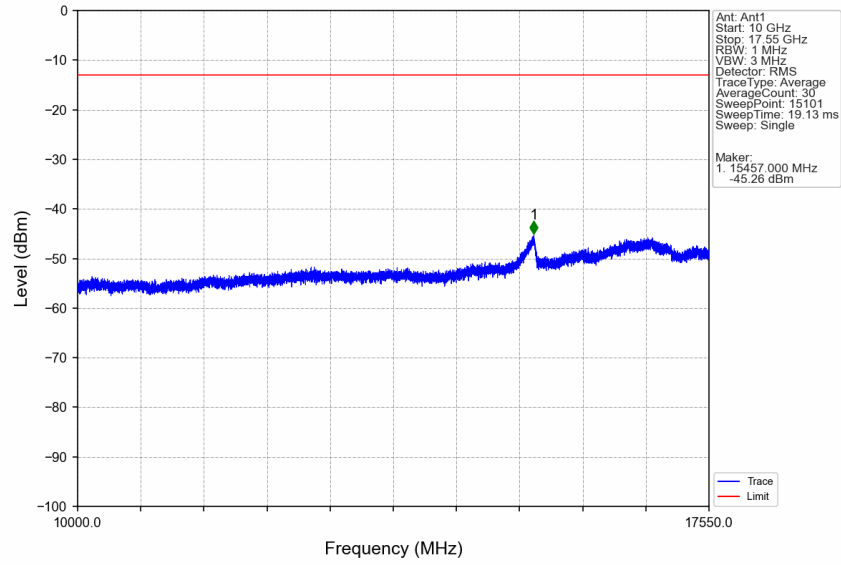
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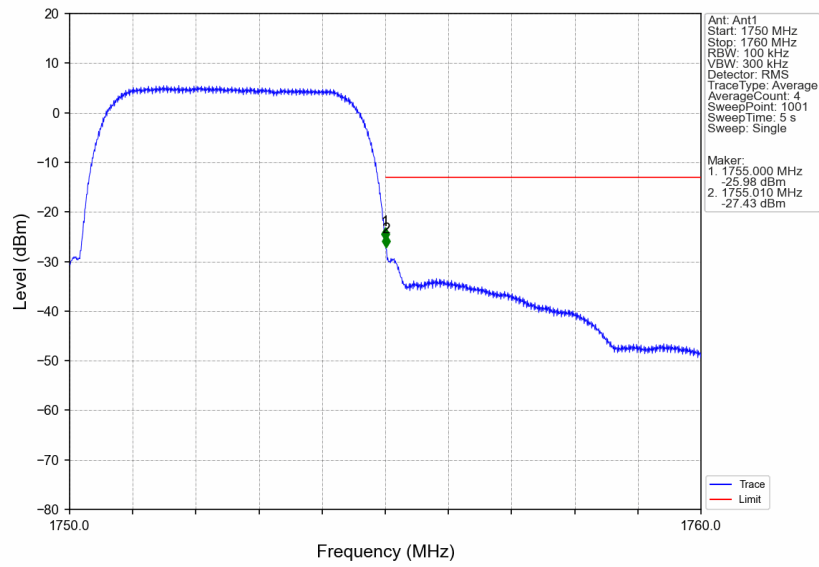
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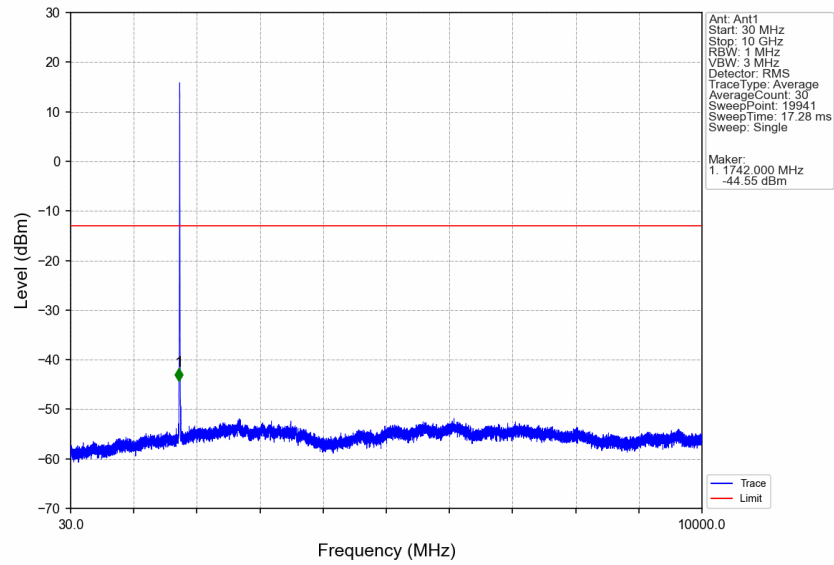
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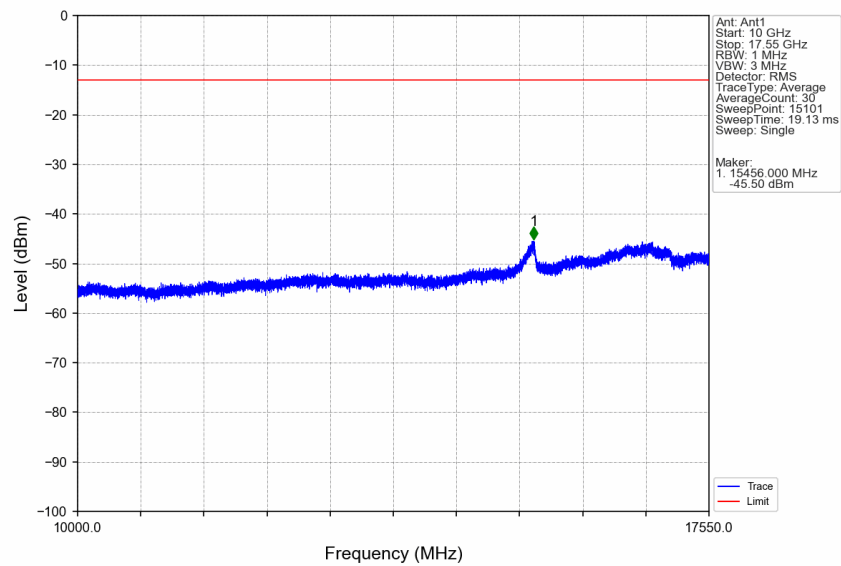
Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



Band4_HSUPA_HCH_1752.6MHz_Subtest 1_NTNV



6. Field Strength of Spurious Radiation

Test Band = WCDMA Band4_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3423	47.79	-46.28	28.52	-65.22	-13.00	52.22	Horizontal
2	4772.25	42.63	-45.56	31.04	-67.15	-13.00	54.15	Horizontal
3	6104.25	42.96	-44.46	32.75	-64.01	-13.00	51.01	Horizontal
4	6963.75	41.66	-43.75	34.93	-62.41	-13.00	49.41	Horizontal
5	8538.75	38.84	-41.51	36.78	-61.15	-13.00	48.15	Horizontal
6	11202	33.32	-37.39	38.70	-60.63	-13.00	47.63	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3423	48.42	-46.28	28.52	-64.59	-13.00	51.59	Vertical
2	4593.75	43.32	-45.67	30.75	-66.86	-13.00	53.86	Vertical
3	5486.25	42.41	-45.25	32.28	-65.82	-13.00	52.82	Vertical
4	6939.75	41.12	-43.88	34.89	-63.13	-13.00	50.13	Vertical
5	8424	38.85	-41.49	36.85	-61.06	-13.00	48.06	Vertical
6	10665	34.50	-38.09	38.57	-60.28	-13.00	47.28	Vertical

Test Band = WCDMA Band4_ TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3463.5	48.28	-46.27	28.56	-64.68	-13.00	51.68	Horizontal
2	4467.75	43.33	-45.75	30.52	-67.15	-13.00	54.15	Horizontal
3	5549.25	42.46	-45.16	32.31	-65.65	-13.00	52.65	Horizontal
4	6609.75	41.13	-44.30	34.30	-64.13	-13.00	51.13	Horizontal
5	8081.25	39.23	-41.55	37.05	-60.52	-13.00	47.52	Horizontal
6	10121.25	35.97	-39.20	38.51	-59.98	-13.00	46.98	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3464.25	45.48	-46.27	28.56	-67.48	-13.00	54.48	Vertical
2	4713	42.56	-45.59	30.94	-67.35	-13.00	54.35	Vertical
3	6087.75	42.18	-44.50	32.70	-64.88	-13.00	51.88	Vertical
4	6934.5	41.51	-43.91	34.88	-62.78	-13.00	49.78	Vertical
5	9581.25	38.07	-39.78	37.66	-59.30	-13.00	46.30	Vertical
6	12202.5	34.00	-37.49	39.16	-59.59	-13.00	46.59	Vertical

Test Band = WCDMA Band4_ TM1
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3503.25	52.48	-46.26	28.61	-60.43	-13.00	47.43	Horizontal
2	5230.5	42.53	-45.22	31.81	-66.14	-13.00	53.14	Horizontal
3	6299.25	41.59	-44.54	33.42	-64.79	-13.00	51.79	Horizontal
4	7867.5	40.59	-42.65	36.91	-60.41	-13.00	47.41	Horizontal
5	9551.25	38.22	-39.94	37.60	-59.38	-13.00	46.38	Horizontal
6	12924	34.58	-37.16	39.38	-58.47	-13.00	45.47	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3504	46.92	-46.25	28.61	-65.99	-13.00	52.99	Vertical
2	5135.25	42.22	-45.34	31.64	-66.73	-13.00	53.73	Vertical
3	6121.5	42.44	-44.52	32.81	-64.52	-13.00	51.52	Vertical
4	7977.75	40.35	-42.45	37.07	-60.30	-13.00	47.30	Vertical
5	10149.75	35.92	-39.31	38.51	-60.13	-13.00	47.13	Vertical
6	11965.5	33.96	-37.45	39.08	-59.66	-13.00	46.66	Vertical