

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 GSM850_ERP

Band: GSM850									
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict	
	Network	Subset				Result	Limit		
NTNV	GSM	GSM	824.2	32.20	-0.76	29.29	<=38.45	Pass	
			836.6	32.02	-0.76	29.11	<=38.45	Pass	
			848.8	31.80	-0.76	28.89	<=38.45	Pass	
	GPRS	1 TX Slot	824.2	32.20	-0.76	29.29	<=38.45	Pass	
			2 TX Slots	824.2	31.42	-0.76	28.51	<=38.45	Pass
			3 TX Slots	824.2	29.76	-0.76	26.85	<=38.45	Pass
			4 TX Slots	824.2	28.73	-0.76	25.82	<=38.45	Pass
		2 TX Slots	836.6	31.99	-0.76	29.08	<=38.45	Pass	
			31.24	-0.76	28.33	<=38.45	Pass		
			29.56	-0.76	26.65	<=38.45	Pass		
			28.51	-0.76	25.60	<=38.45	Pass		
		3 TX Slots	848.8	31.78	-0.76	28.87	<=38.45	Pass	
			31.01	-0.76	28.10	<=38.45	Pass		
			29.32	-0.76	26.41	<=38.45	Pass		
			28.23	-0.76	25.32	<=38.45	Pass		
	EGPRS	1 TX Slot	824.2	26.47	-0.76	23.56	<=38.45	Pass	
			25.34	-0.76	22.43	<=38.45	Pass		
			23.45	-0.76	20.54	<=38.45	Pass		
			22.28	-0.76	19.37	<=38.45	Pass		
		2 TX Slots	836.6	26.44	-0.76	23.53	<=38.45	Pass	
			25.33	-0.76	22.42	<=38.45	Pass		
			23.42	-0.76	20.51	<=38.45	Pass		
			22.22	-0.76	19.31	<=38.45	Pass		
		3 TX Slots	848.8	26.11	-0.76	23.20	<=38.45	Pass	
			25.09	-0.76	22.18	<=38.45	Pass		
			23.03	-0.76	20.12	<=38.45	Pass		
			21.90	-0.76	18.99	<=38.45	Pass		
			18.99	<=38.45	Pass				

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Test Result

2.1.1 GSM850

Band: GSM850							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GSM	824.2	20	3.27	-2.551	-0.0031	-2.5 to 2.5	Pass
			3.85	-0.581	-0.0007	-2.5 to 2.5	Pass
			4.43	-3.196	-0.0039	-2.5 to 2.5	Pass
		-30	3.85	1.259	0.0015	-2.5 to 2.5	Pass
			-20	3.85	-10.783	-0.0131	-2.5 to 2.5
		-10	3.85	-11.397	-0.0138	-2.5 to 2.5	Pass
			0	3.85	-12.172	-0.0148	-2.5 to 2.5
		10	3.85	-13.173	-0.0160	-2.5 to 2.5	Pass

	836.6	30	3.85	-10.073	-0.0122	-2.5 to 2.5	Pass
		40	3.85	-7.749	-0.0094	-2.5 to 2.5	Pass
		50	3.85	-11.203	-0.0136	-2.5 to 2.5	Pass
		20	3.27	4.746	0.0057	-2.5 to 2.5	Pass
			3.85	2.809	0.0034	-2.5 to 2.5	Pass
			4.43	4.197	0.0050	-2.5 to 2.5	Pass
		-30	3.85	0.872	0.0010	-2.5 to 2.5	Pass
		-20	3.85	2.841	0.0034	-2.5 to 2.5	Pass
		-10	3.85	-1.291	-0.0015	-2.5 to 2.5	Pass
		0	3.85	-2.389	-0.0029	-2.5 to 2.5	Pass
		10	3.85	-4.746	-0.0057	-2.5 to 2.5	Pass
		30	3.85	-2.970	-0.0036	-2.5 to 2.5	Pass
	40	3.85	-3.713	-0.0044	-2.5 to 2.5	Pass	
	50	3.85	-2.615	-0.0031	-2.5 to 2.5	Pass	
	848.8	20	3.27	2.228	0.0026	-2.5 to 2.5	Pass
			3.85	4.488	0.0053	-2.5 to 2.5	Pass
			4.43	2.486	0.0029	-2.5 to 2.5	Pass
		-30	3.85	3.261	0.0038	-2.5 to 2.5	Pass
		-20	3.85	5.133	0.0060	-2.5 to 2.5	Pass
		-10	3.85	-1.485	-0.0017	-2.5 to 2.5	Pass
		0	3.85	-2.454	-0.0029	-2.5 to 2.5	Pass
		10	3.85	-0.226	-0.0003	-2.5 to 2.5	Pass
		30	3.85	-0.872	-0.0010	-2.5 to 2.5	Pass
		40	3.85	-0.613	-0.0007	-2.5 to 2.5	Pass
50		3.85	-0.387	-0.0005	-2.5 to 2.5	Pass	
GPRS		824.2	20	3.27	-4.359	-0.0053	-2.5 to 2.5
	3.85			-4.359	-0.0053	-2.5 to 2.5	Pass
	4.43			-6.102	-0.0074	-2.5 to 2.5	Pass
	-30		3.85	-7.393	-0.0090	-2.5 to 2.5	Pass
	-20		3.85	-4.100	-0.0050	-2.5 to 2.5	Pass
	-10		3.85	-0.065	-0.0001	-2.5 to 2.5	Pass
	0		3.85	-7.781	-0.0094	-2.5 to 2.5	Pass
	10		3.85	-2.518	-0.0031	-2.5 to 2.5	Pass
	30		3.85	-1.388	-0.0017	-2.5 to 2.5	Pass
	40		3.85	-2.131	-0.0026	-2.5 to 2.5	Pass
	50		3.85	-4.359	-0.0053	-2.5 to 2.5	Pass
	836.6		20	3.27	2.066	0.0025	-2.5 to 2.5
		3.85		1.743	0.0021	-2.5 to 2.5	Pass
		4.43		0.387	0.0005	-2.5 to 2.5	Pass
		-30	3.85	0.484	0.0006	-2.5 to 2.5	Pass
		-20	3.85	-0.032	0.0000	-2.5 to 2.5	Pass
		-10	3.85	-1.679	-0.0020	-2.5 to 2.5	Pass
		0	3.85	4.617	0.0055	-2.5 to 2.5	Pass
		10	3.85	1.776	0.0021	-2.5 to 2.5	Pass
		30	3.85	4.423	0.0053	-2.5 to 2.5	Pass
		40	3.85	3.455	0.0041	-2.5 to 2.5	Pass
		50	3.85	5.876	0.0070	-2.5 to 2.5	Pass
		848.8	20	3.27	-2.325	-0.0027	-2.5 to 2.5
	3.85			-0.678	-0.0008	-2.5 to 2.5	Pass
4.43	-1.195			-0.0014	-2.5 to 2.5	Pass	
-30	3.85		-3.196	-0.0038	-2.5 to 2.5	Pass	
-20	3.85		-2.551	-0.0030	-2.5 to 2.5	Pass	
-10	3.85		-0.646	-0.0008	-2.5 to 2.5	Pass	
0	3.85		4.068	0.0048	-2.5 to 2.5	Pass	
10	3.85		2.034	0.0024	-2.5 to 2.5	Pass	
30	3.85		-0.549	-0.0006	-2.5 to 2.5	Pass	
40	3.85		0.969	0.0011	-2.5 to 2.5	Pass	
50	3.85		-2.744	-0.0032	-2.5 to 2.5	Pass	
EGPRS	824.2		20	3.27	0.194	0.0002	-2.5 to 2.5

			3.85	-4.391	-0.0053	-2.5 to 2.5	Pass	
			4.43	-3.325	-0.0040	-2.5 to 2.5	Pass	
		-30	3.85	1.291	0.0016	-2.5 to 2.5	Pass	
		-20	3.85	2.099	0.0025	-2.5 to 2.5	Pass	
		-10	3.85	1.065	0.0013	-2.5 to 2.5	Pass	
		0	3.85	-2.744	-0.0033	-2.5 to 2.5	Pass	
		10	3.85	-2.551	-0.0031	-2.5 to 2.5	Pass	
		30	3.85	-1.130	-0.0014	-2.5 to 2.5	Pass	
		40	3.85	-3.455	-0.0042	-2.5 to 2.5	Pass	
		50	3.85	0.226	0.0003	-2.5 to 2.5	Pass	
	836.6	20		3.27	3.293	0.0039	-2.5 to 2.5	Pass
				3.85	5.682	0.0068	-2.5 to 2.5	Pass
				4.43	4.326	0.0052	-2.5 to 2.5	Pass
		-30	3.85	6.005	0.0072	-2.5 to 2.5	Pass	
		-20	3.85	1.001	0.0012	-2.5 to 2.5	Pass	
		-10	3.85	2.873	0.0034	-2.5 to 2.5	Pass	
		0	3.85	2.292	0.0027	-2.5 to 2.5	Pass	
		10	3.85	4.326	0.0052	-2.5 to 2.5	Pass	
		30	3.85	3.035	0.0036	-2.5 to 2.5	Pass	
		40	3.85	0.936	0.0011	-2.5 to 2.5	Pass	
	50	3.85	2.938	0.0035	-2.5 to 2.5	Pass		
	848.8	20		3.27	-2.712	-0.0032	-2.5 to 2.5	Pass
				3.85	1.421	0.0017	-2.5 to 2.5	Pass
				4.43	-2.260	-0.0027	-2.5 to 2.5	Pass
		-30	3.85	0.807	0.0010	-2.5 to 2.5	Pass	
		-20	3.85	2.357	0.0028	-2.5 to 2.5	Pass	
		-10	3.85	0.484	0.0006	-2.5 to 2.5	Pass	
		0	3.85	-0.194	-0.0002	-2.5 to 2.5	Pass	
		10	3.85	1.905	0.0022	-2.5 to 2.5	Pass	
		30	3.85	0.323	0.0004	-2.5 to 2.5	Pass	
40		3.85	4.391	0.0052	-2.5 to 2.5	Pass		
50	3.85	4.423	0.0052	-2.5 to 2.5	Pass			

3. Modulation Characteristics

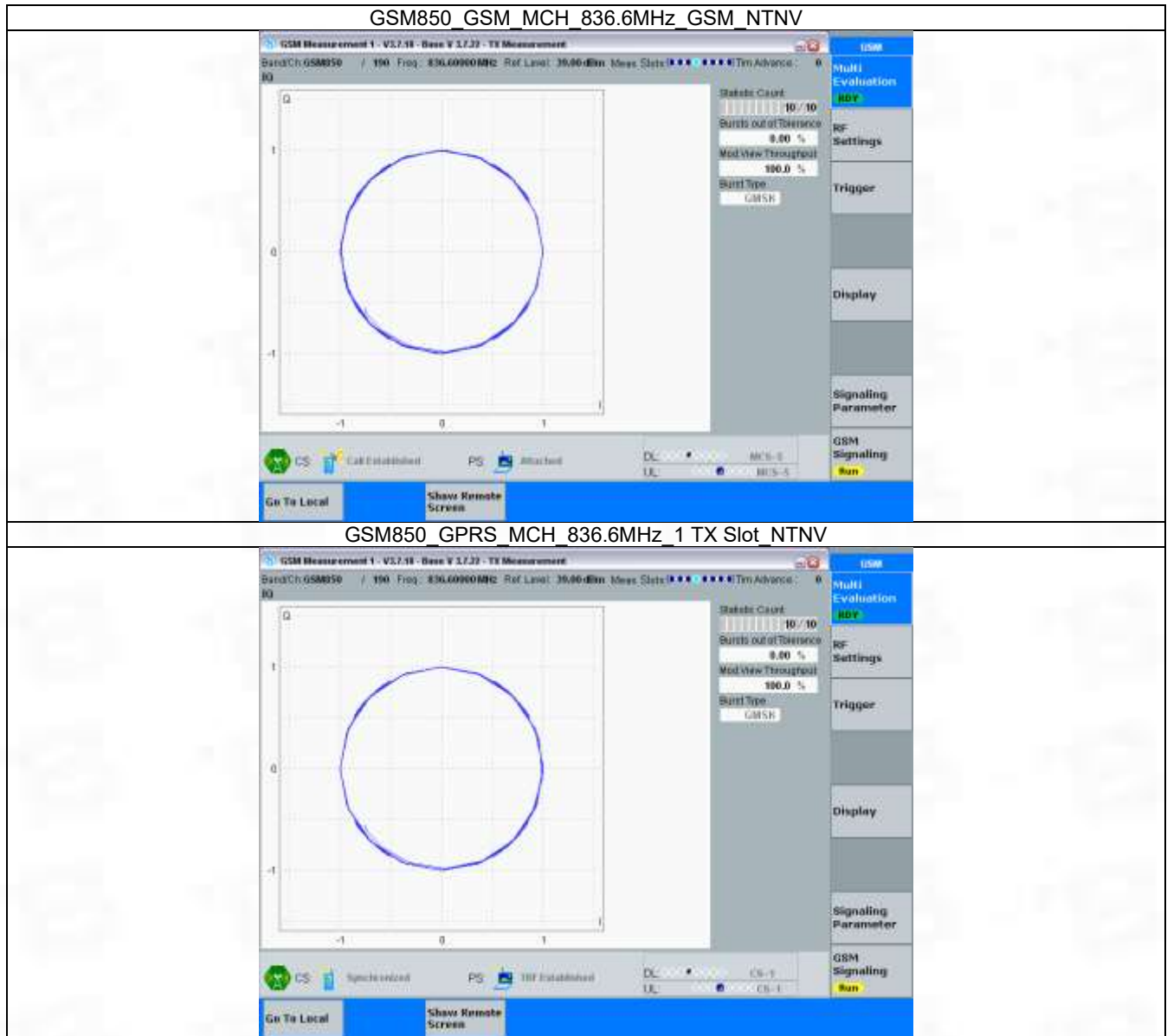
3.1 Test Result

3.1.1 GSM850

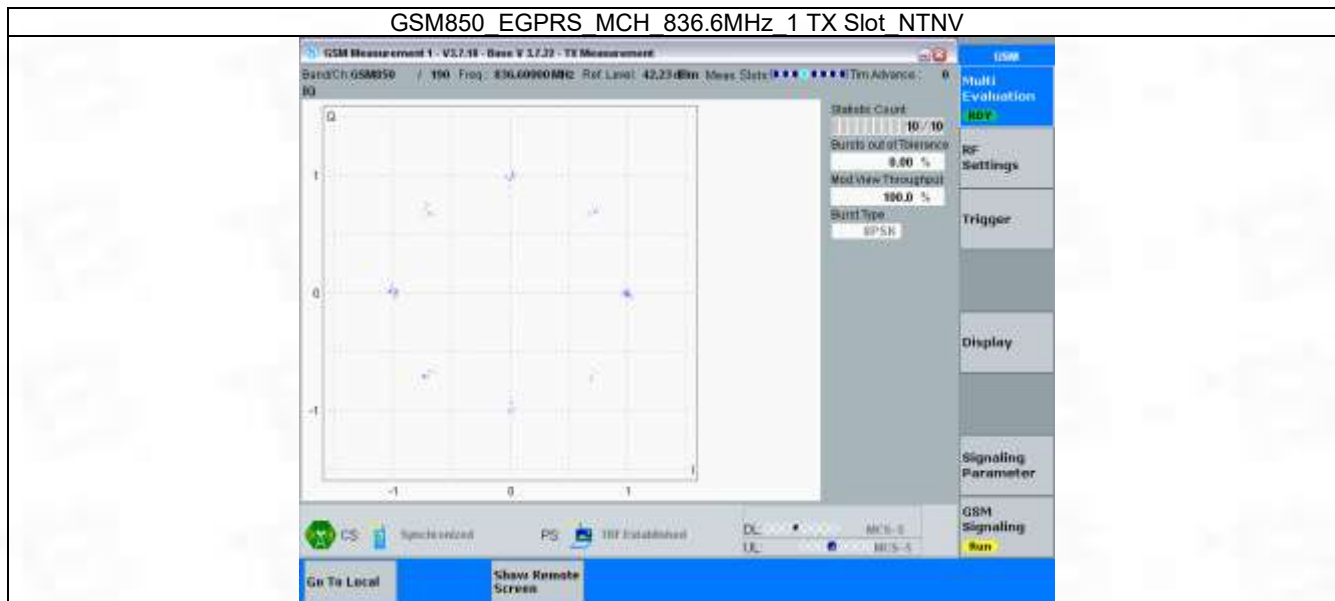
Band: GSM850						
ENV	Mode		Frequency (MHz)	Modulation Characteristics		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	836.6	Refer To Test Graph		Pass
	GPRS	1 TX Slot	836.6	Refer To Test Graph		Pass
	EGPRS	1 TX Slot	836.6	Refer To Test Graph		Pass

3.2 Test Graph

3.2.1 GSM850



GSM850 EGPRS MCH 836.6MHz 1 TX Slot NTNV



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 GSM850_OBW

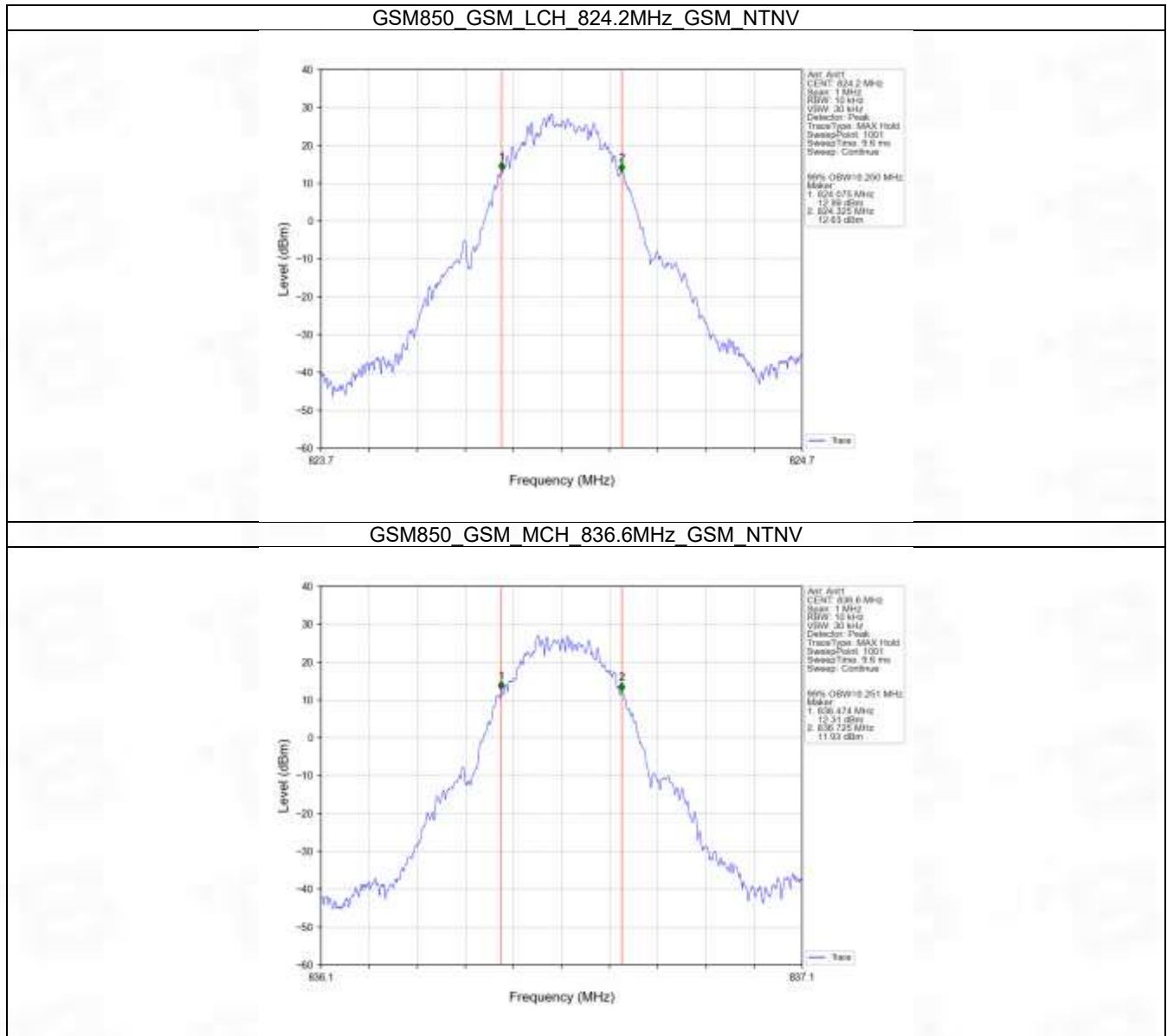
Band: GSM850						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	0.250	/	Pass
			836.6	0.251	/	Pass
			848.8	0.246	/	Pass
	GPRS	1 TX Slot	824.2	0.246	/	Pass
			836.6	0.246	/	Pass
			848.8	0.244	/	Pass
	EGPRS	1 TX Slot	824.2	0.243	/	Pass
			836.6	0.245	/	Pass
			848.8	0.245	/	Pass

4.1.2 GSM850_XDB

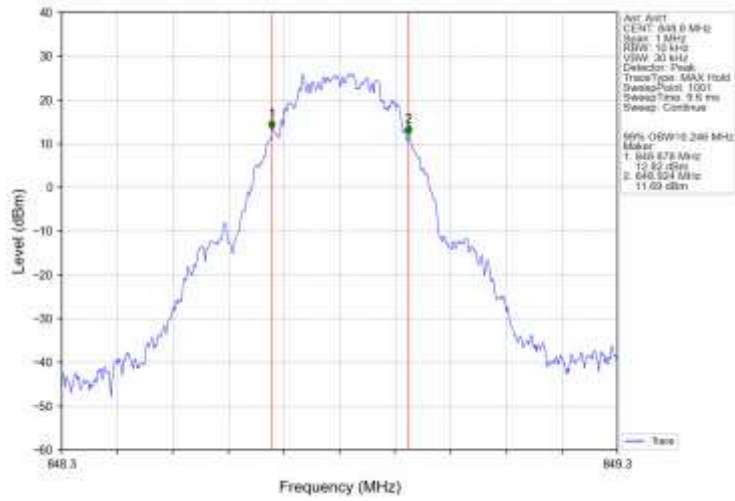
Band: GSM850						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	0.313	/	Pass
			836.6	0.318	/	Pass
			848.8	0.319	/	Pass
	GPRS	1 TX Slot	824.2	0.317	/	Pass
			836.6	0.313	/	Pass
			848.8	0.320	/	Pass
	EGPRS	1 TX Slot	824.2	0.303	/	Pass
			836.6	0.311	/	Pass
			848.8	0.306	/	Pass

4.2 Test Graph

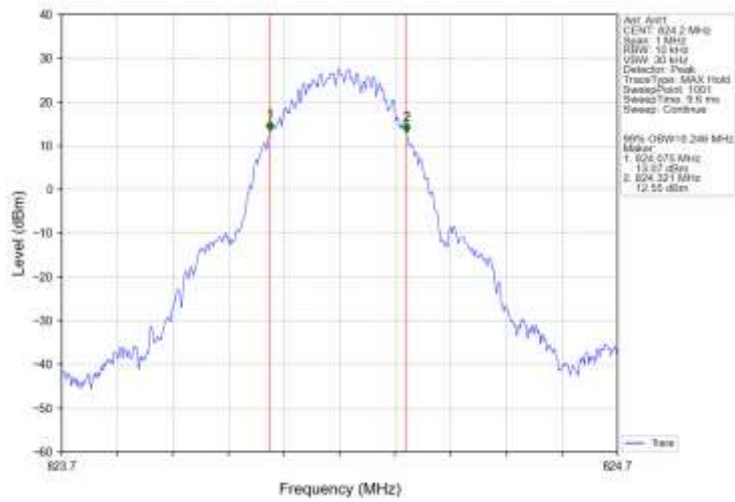
4.2.1 GSM850_OBW



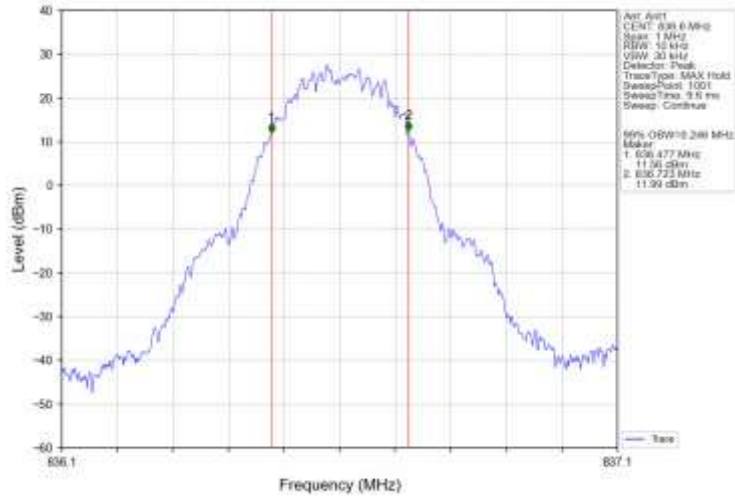
GSM850 GSM HCH 848.8MHz GSM NTV



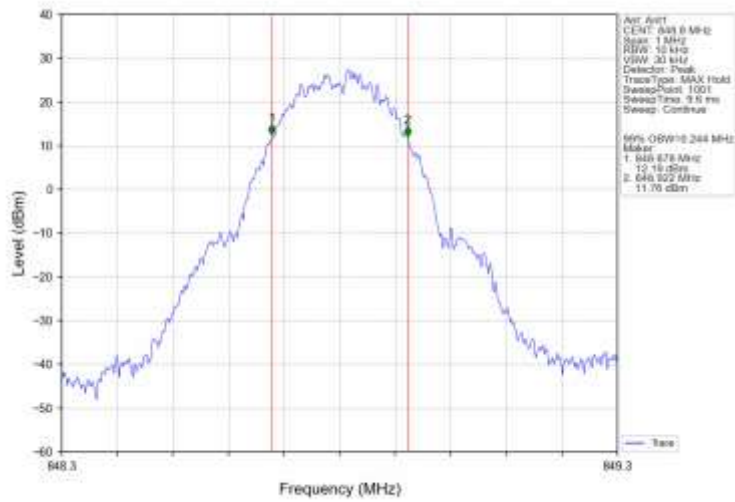
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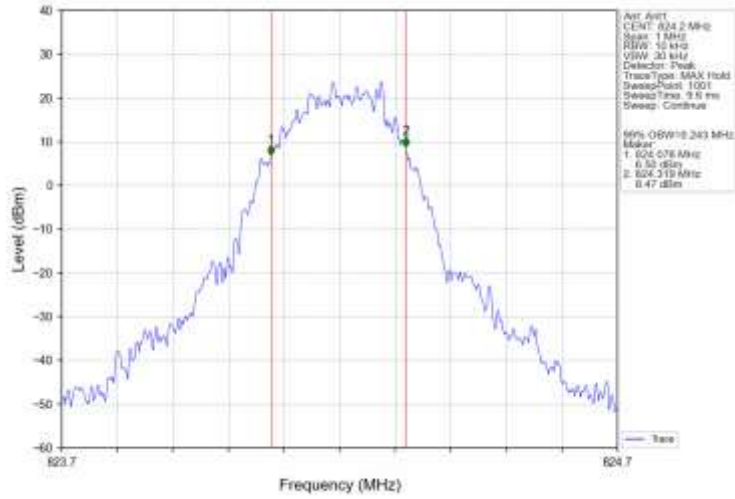
GSM850_GPRS_MCH_836.6MHz_1_TX_Slot_NTNV



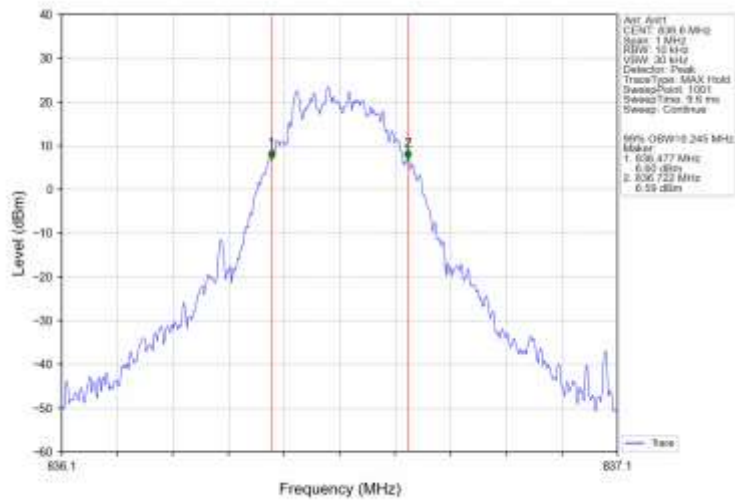
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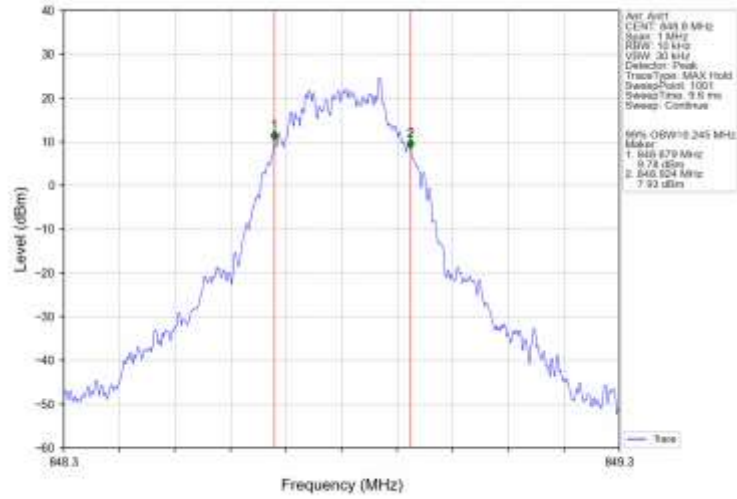
GSM850 EGPRS LCH 824.2MHz 1 TX Slot NTNV



GSM850 EGPRS MCH 836.6MHz 1 TX Slot NTNV

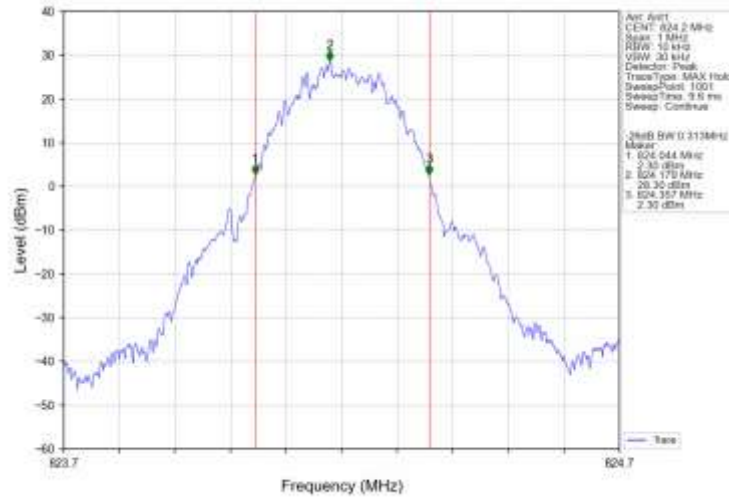


GSM850 EGPRS HCH 848.8MHz 1 TX Slot NTNV

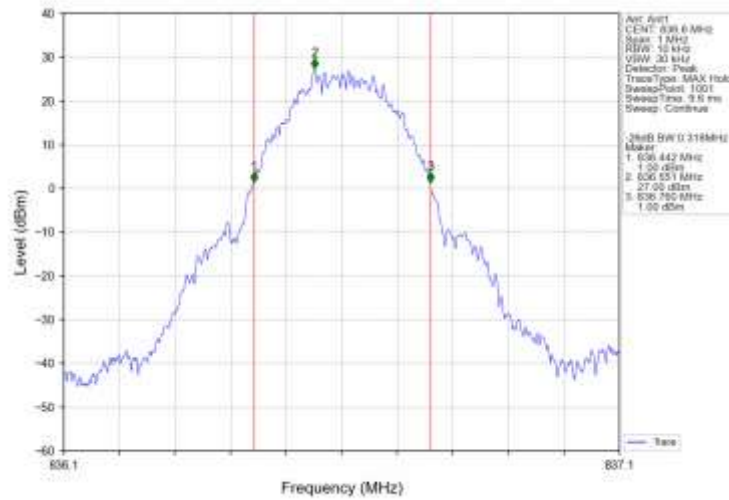


4.2.2 GSM850_XDB

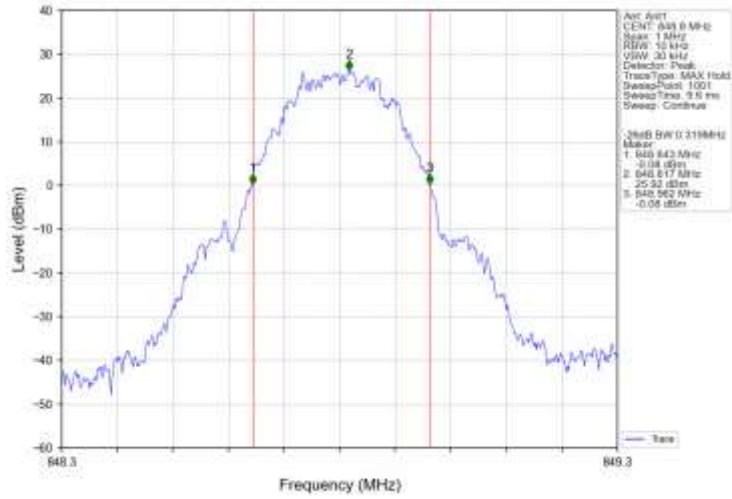
GSM850_GSM_LCH_824.2MHz_GSM_NTNV



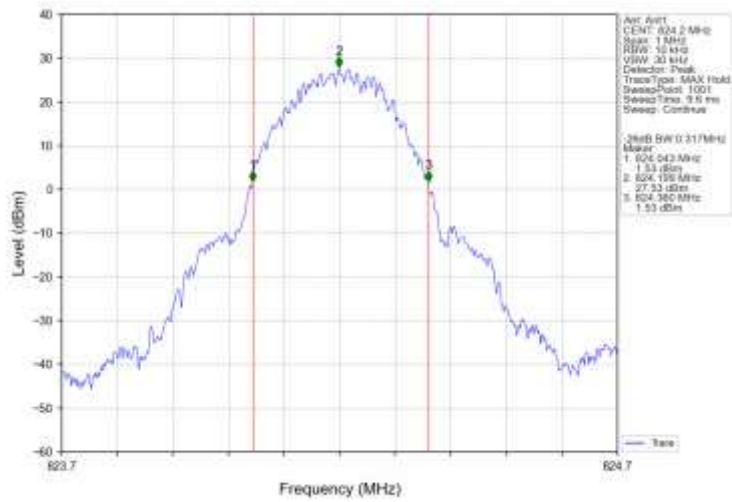
GSM850_GSM_MCH_836.6MHz_GSM_NTNV



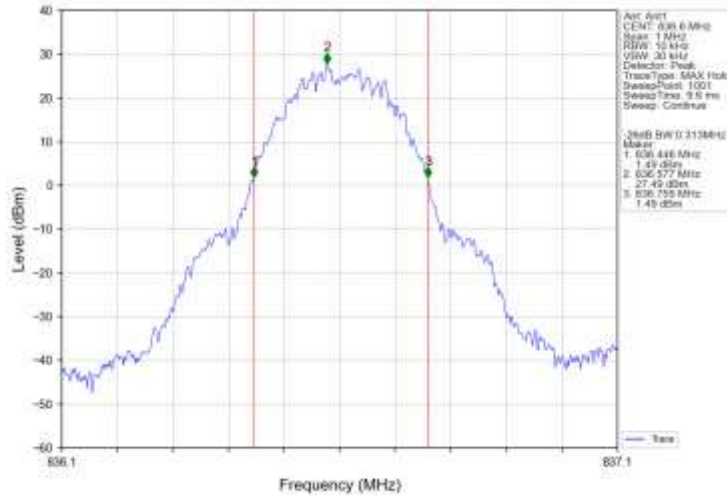
GSM850 GSM HCH 848.8MHz GSM NTNV



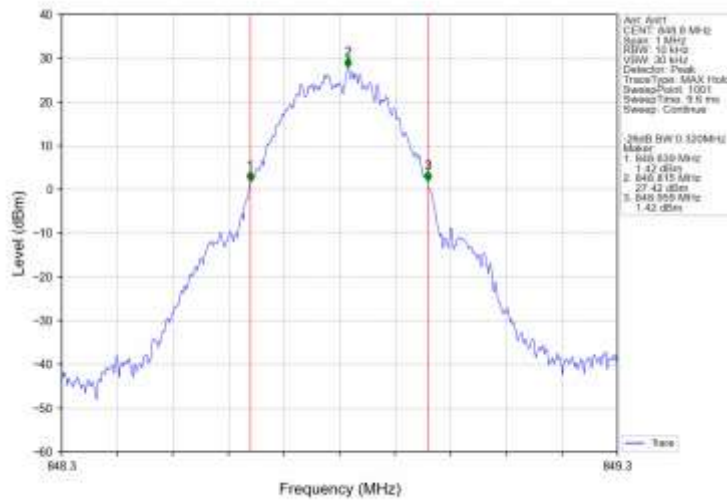
GSM850 GPRS LCH 824.2MHz 1 TX Slot NTNV



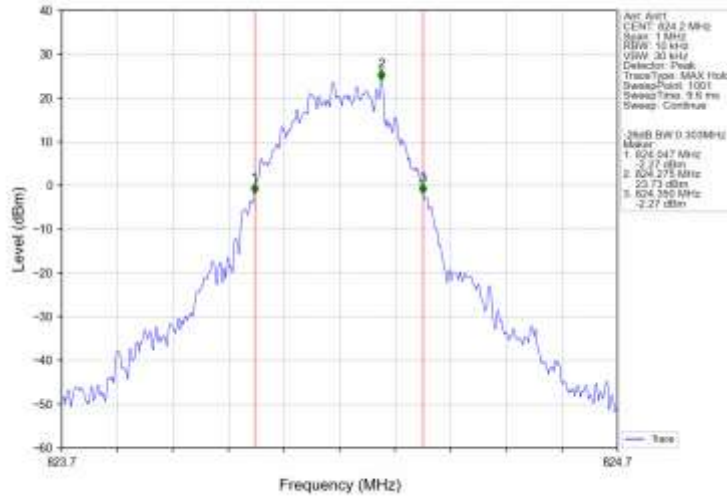
GSM850_GPRS_MCH_836.6MHz_1_TX_Slot_NTNV



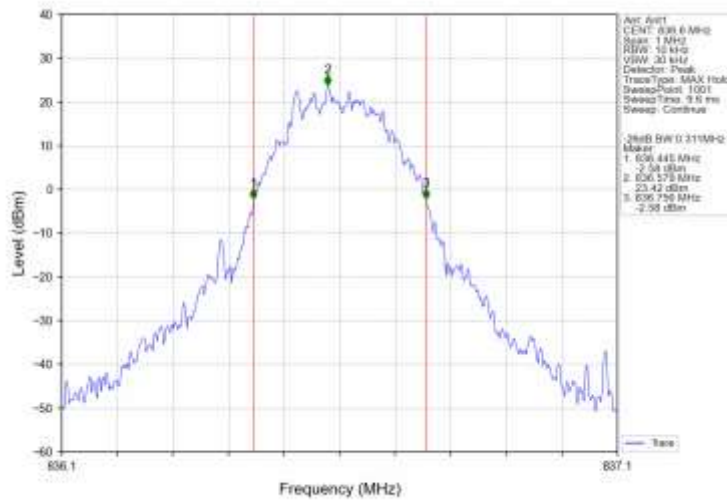
GSM850_GPRS_HCH_848.8MHz_1_TX_Slot_NTNV



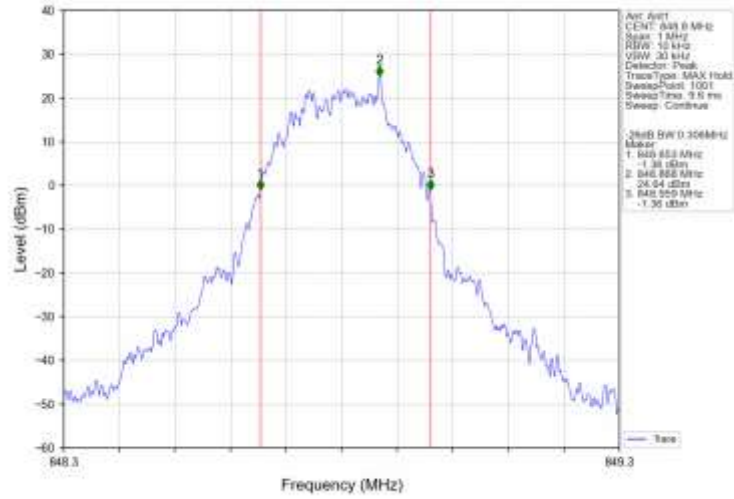
GSM850 EGPRS LCH 824.2MHz 1 TX Slot NTNV



GSM850 EGPRS MCH 836.6MHz 1 TX Slot NTNV



GSM850 EGPRS HCH 848.8MHz 1 TX Slot NTV



5. Peak-Average Ratio

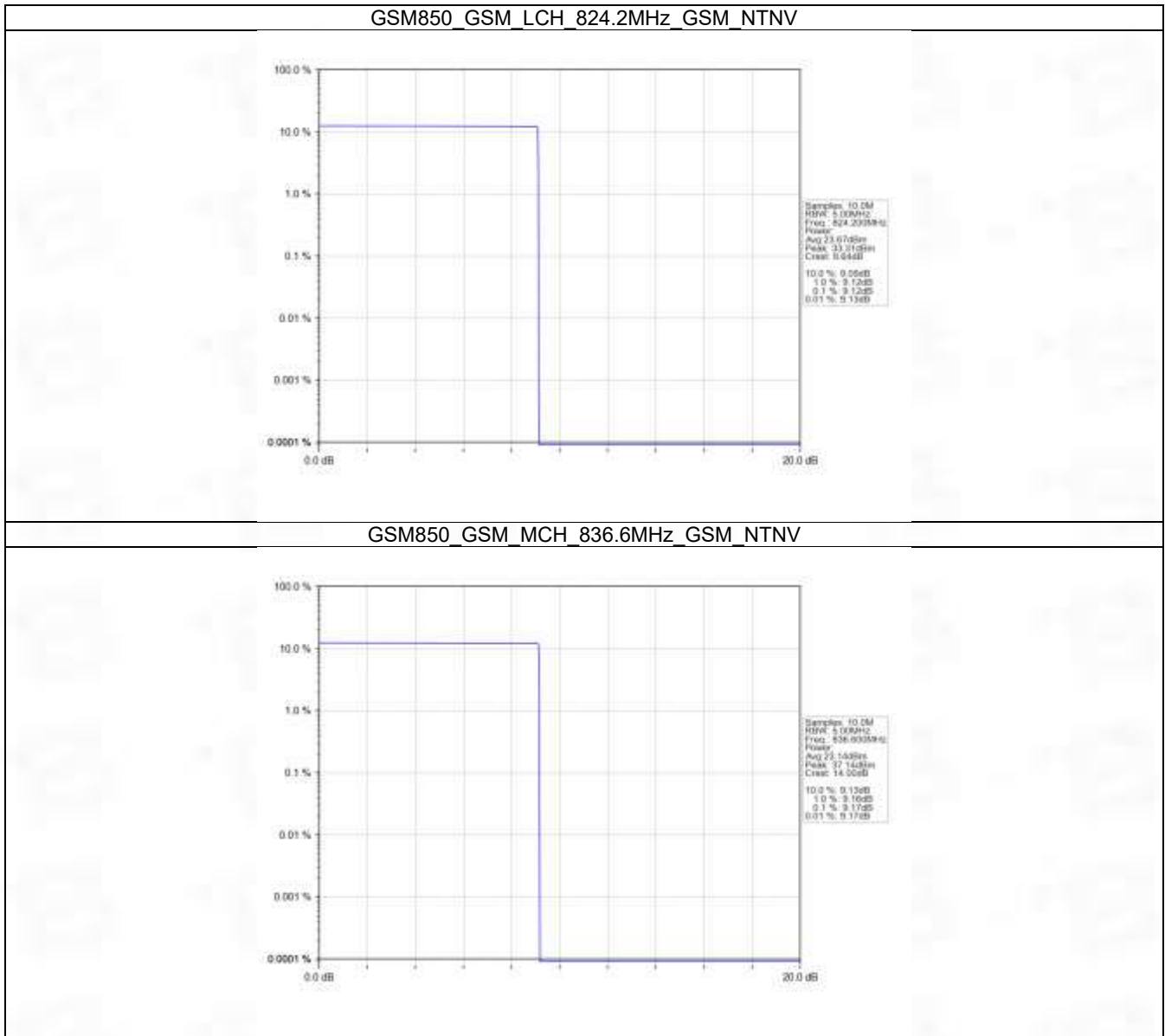
5.1 Test Result

5.1.1 GSM850

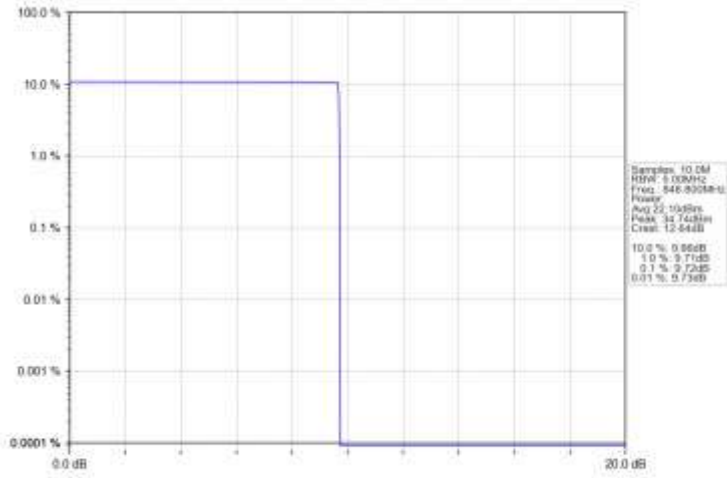
Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	9.12	<=13	Pass
			836.6	9.17	<=13	Pass
			848.8	9.72	<=13	Pass
	GPRS	4 TX Slots	824.2	3.80	<=13	Pass
			836.6	3.51	<=13	Pass
			848.8	3.50	<=13	Pass
	EGPRS	4 TX Slots	824.2	10.09	<=13	Pass
			836.6	9.90	<=13	Pass
			848.8	10.06	<=13	Pass

5.2 Test Graph

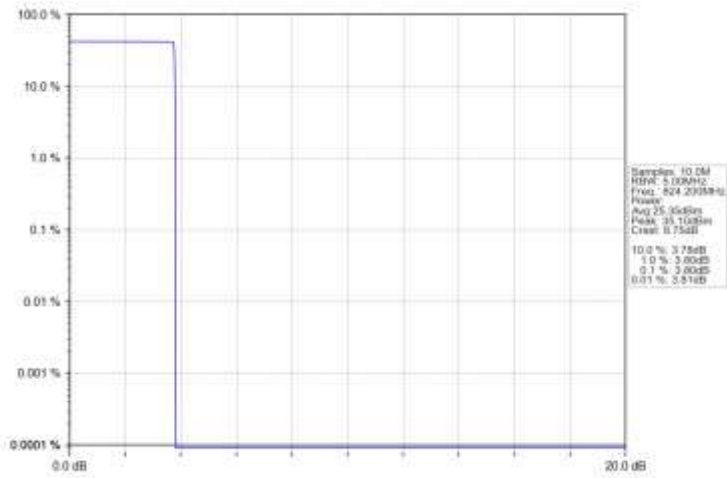
5.2.1 GSM850



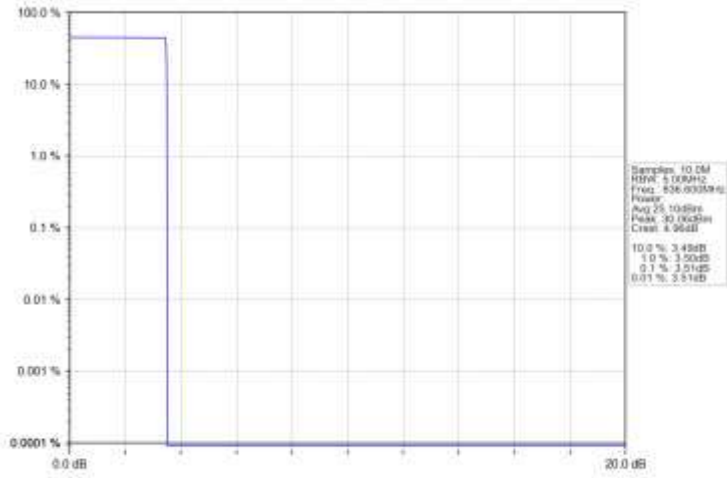
GSM850 GSM HCH 848.8MHz GSM NTV



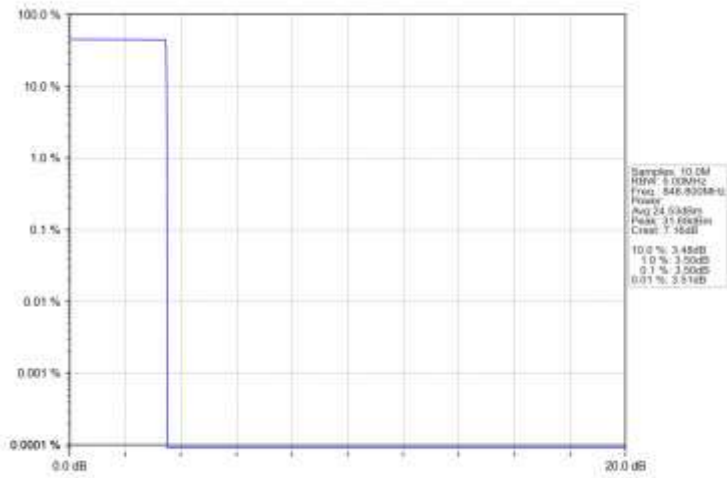
GSM850 GPRS LCH 824.2MHz 4 TX Slots NTV



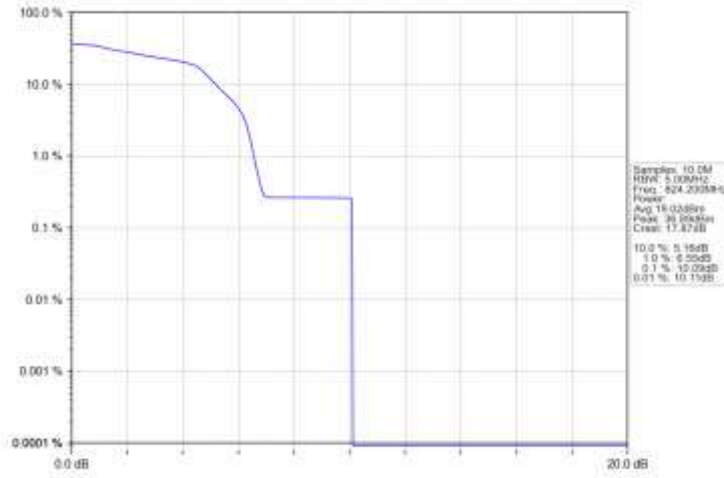
GSM850 GPRS MCH 836.6MHz 4 TX Slots NTV



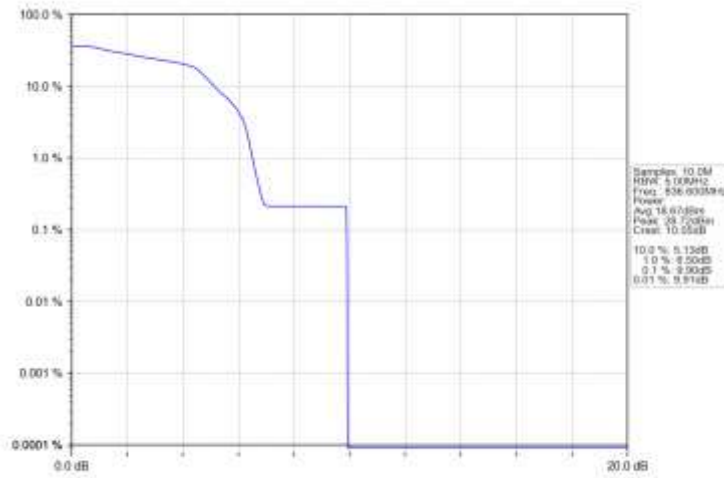
GSM850 GPRS HCH 848.8MHz 4 TX Slots NTV



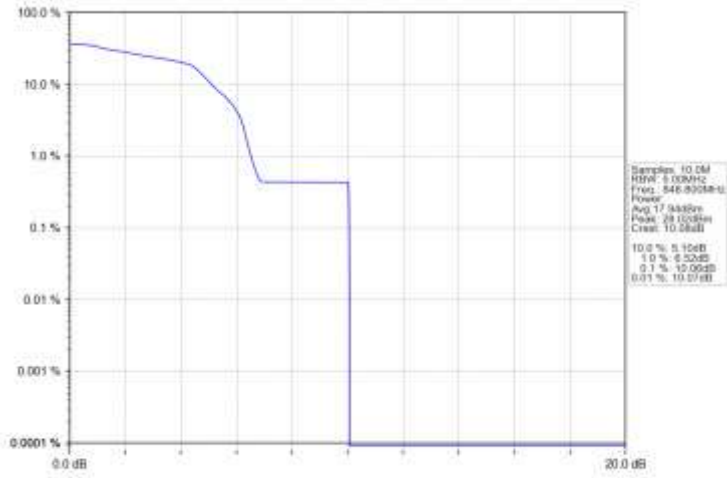
GSM850 EGPRS LCH 824.2MHz 4 TX Slots NTN



GSM850 EGPRS MCH 836.6MHz 4 TX Slots NTN



GSM850 EGPRS HCH 848.8MHz 4 TX Slots NTN



6. Spurious Emission

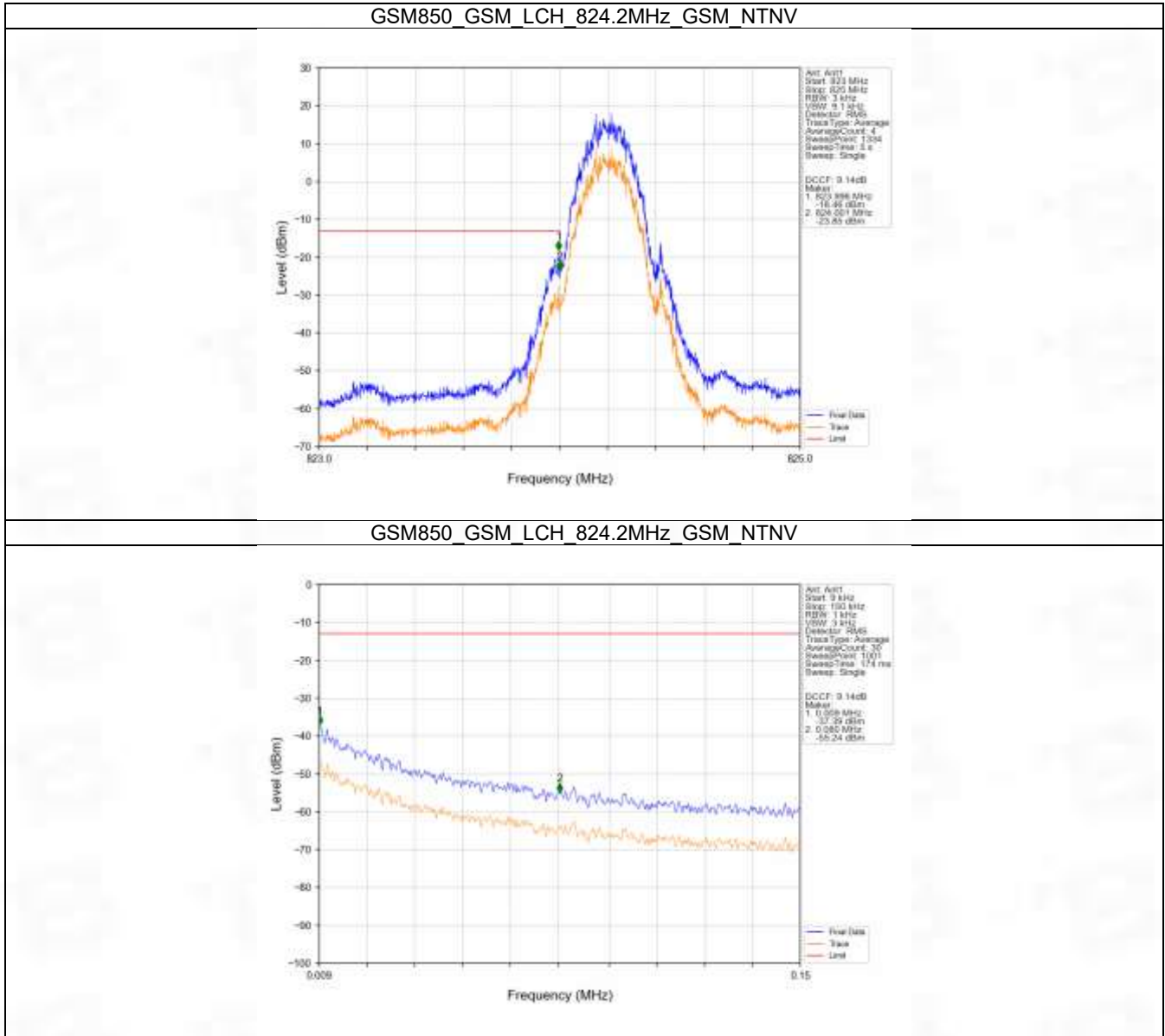
6.1 Test Result

6.1.1 GSM850

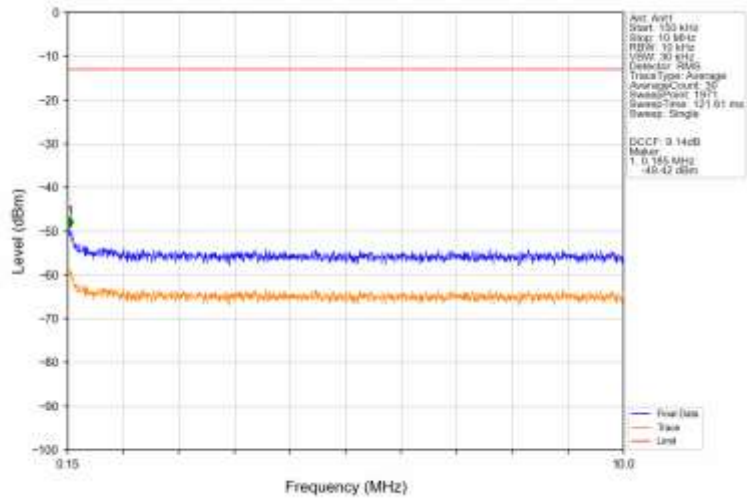
Band: GSM850						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	Refer To Test Graph		Pass
			836.6	Refer To Test Graph		Pass
			848.8	Refer To Test Graph		Pass
	GPRS	1 TX Slot	824.2	Refer To Test Graph		Pass
			836.6	Refer To Test Graph		Pass
			848.8	Refer To Test Graph		Pass
	EGPRS	1 TX Slot	824.2	Refer To Test Graph		Pass
			836.6	Refer To Test Graph		Pass
			848.8	Refer To Test Graph		Pass

6.2 Test Graph

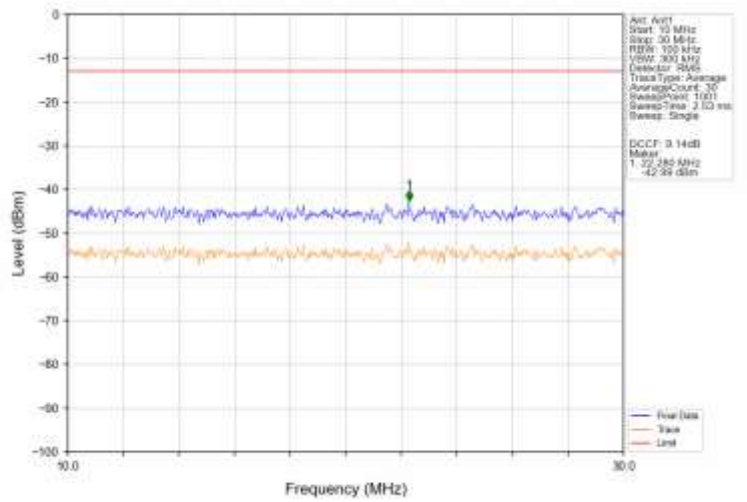
6.2.1 GSM850



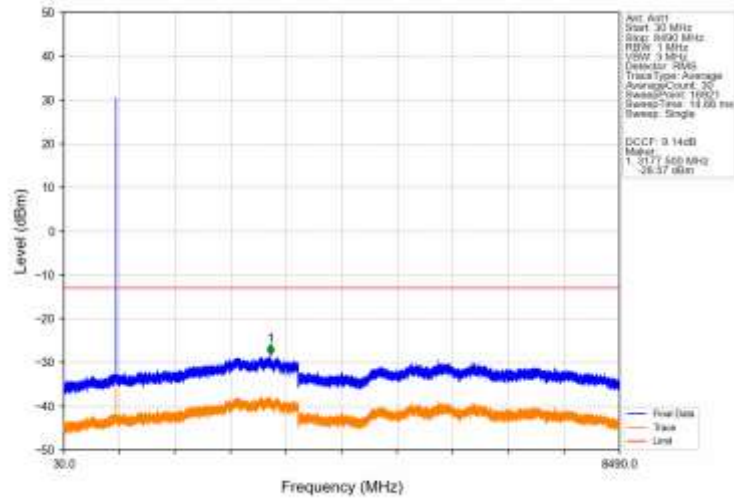
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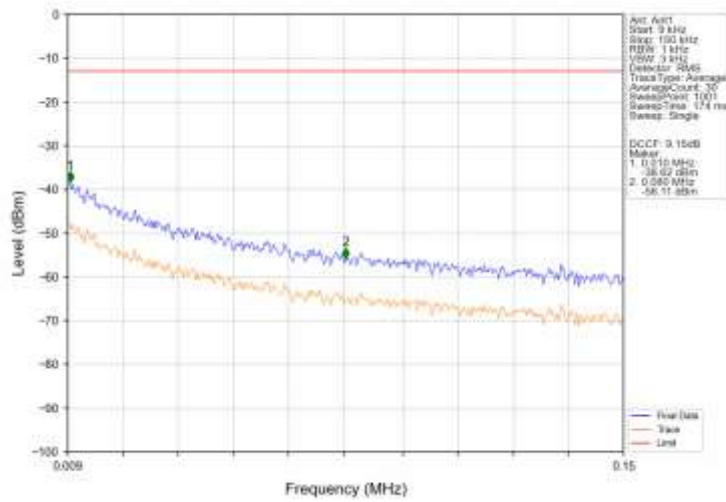
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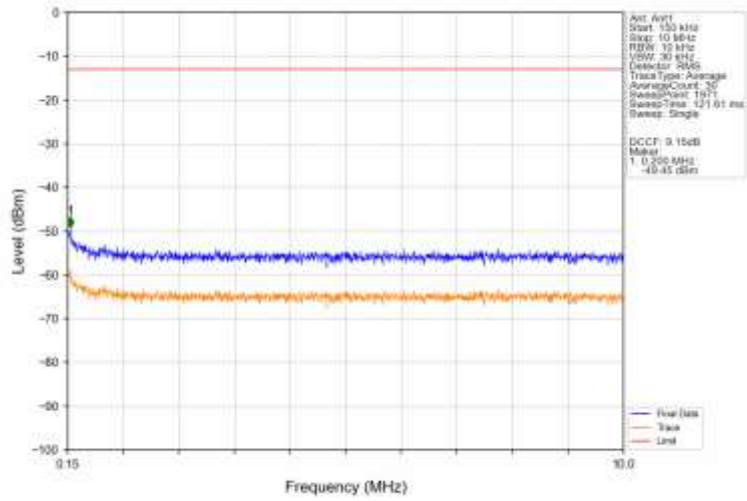
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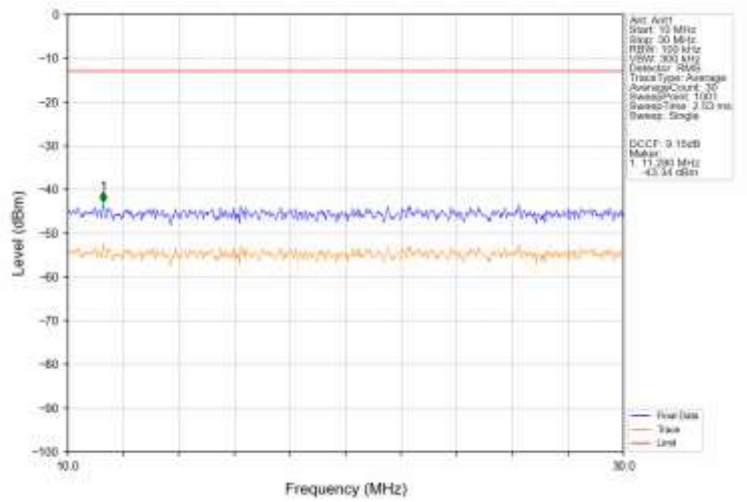
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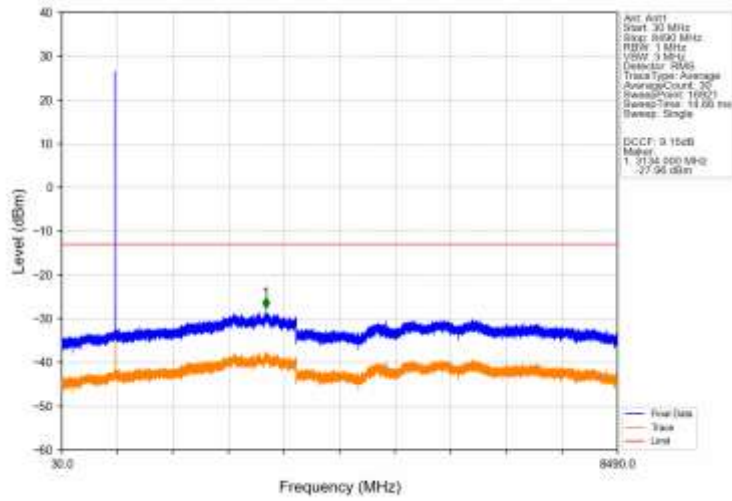
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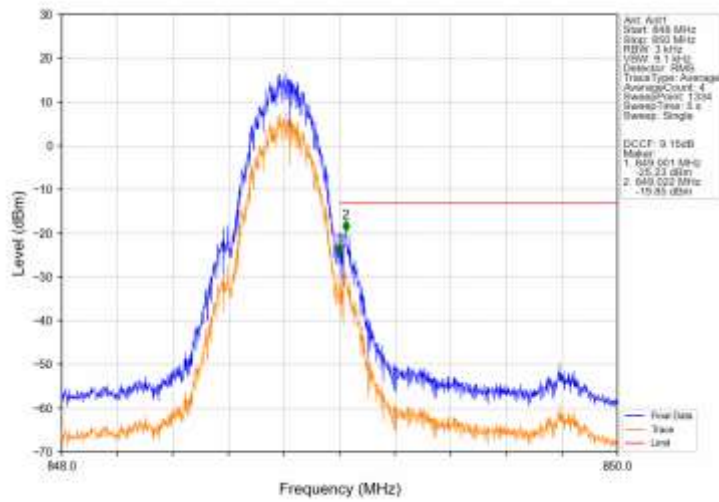
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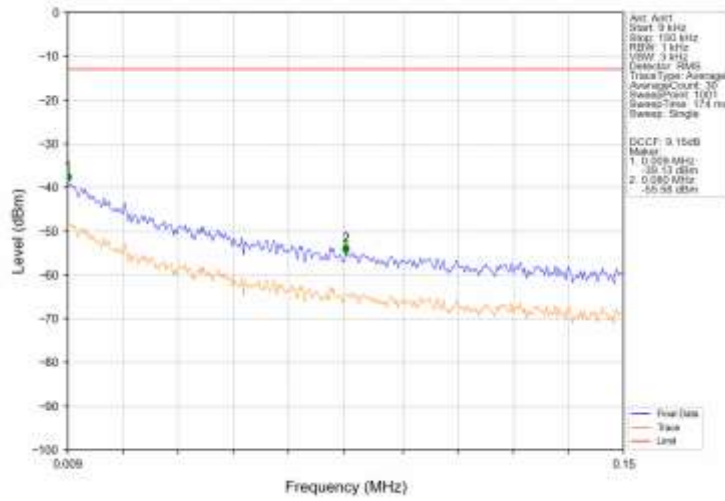
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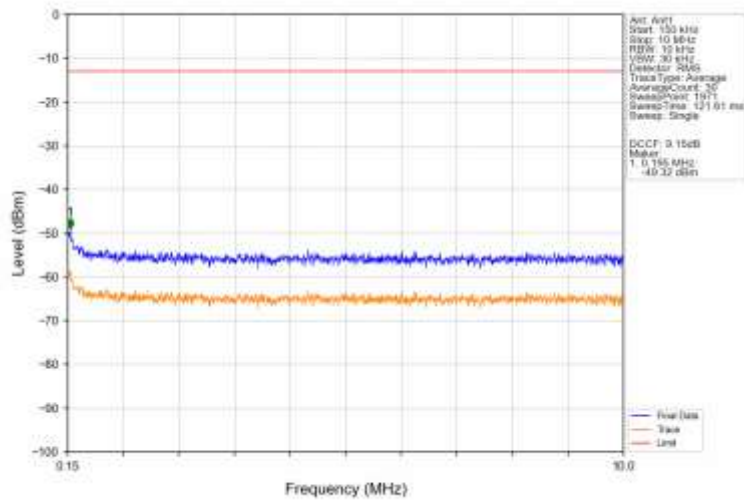
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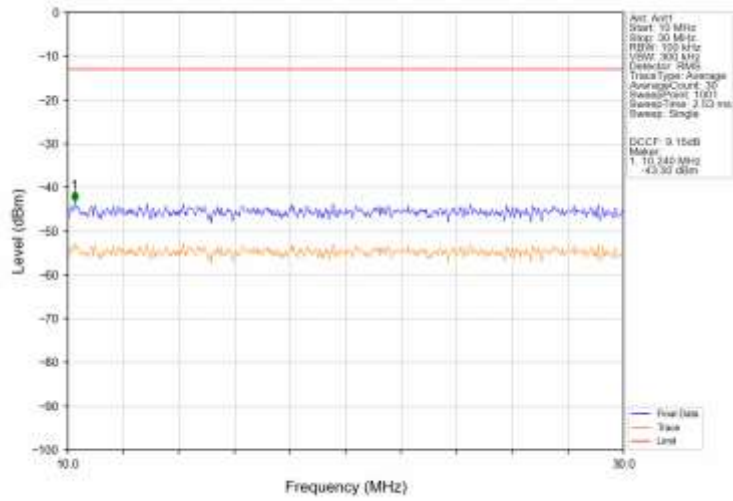
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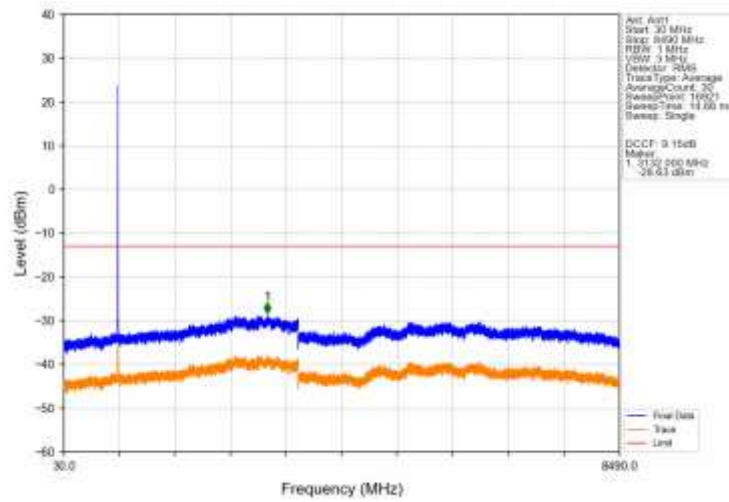
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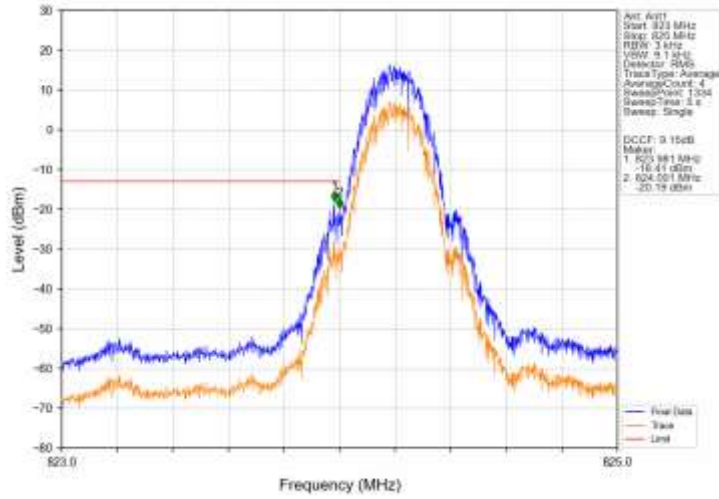
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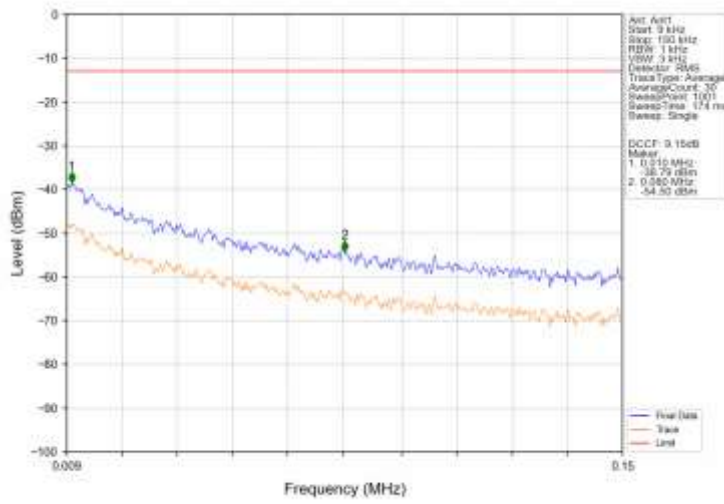
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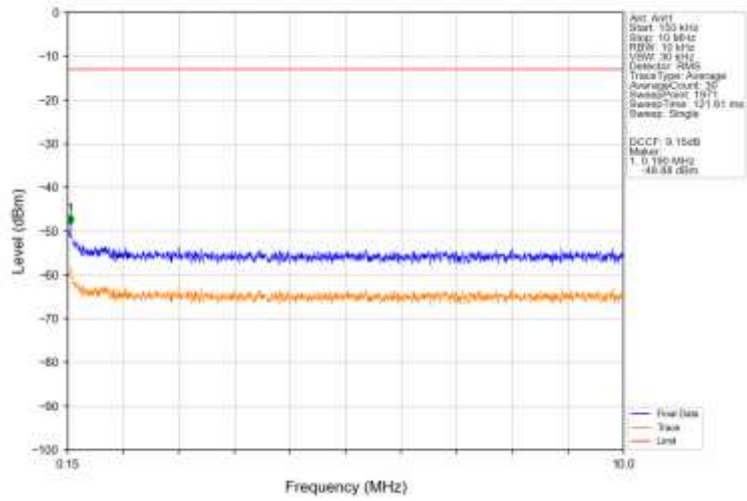
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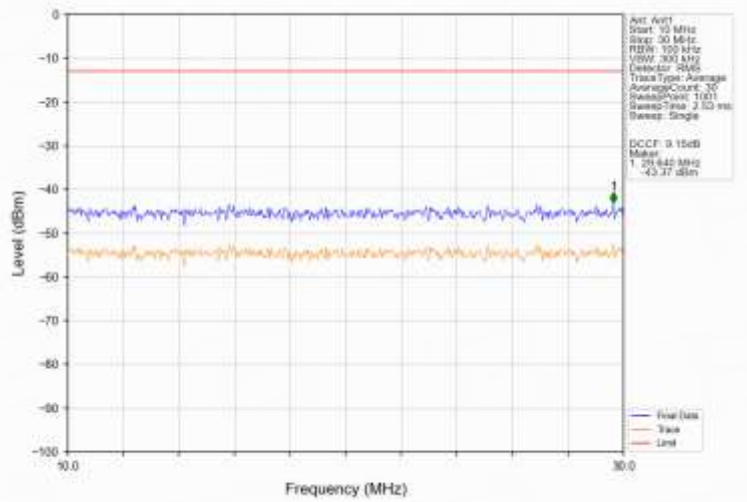
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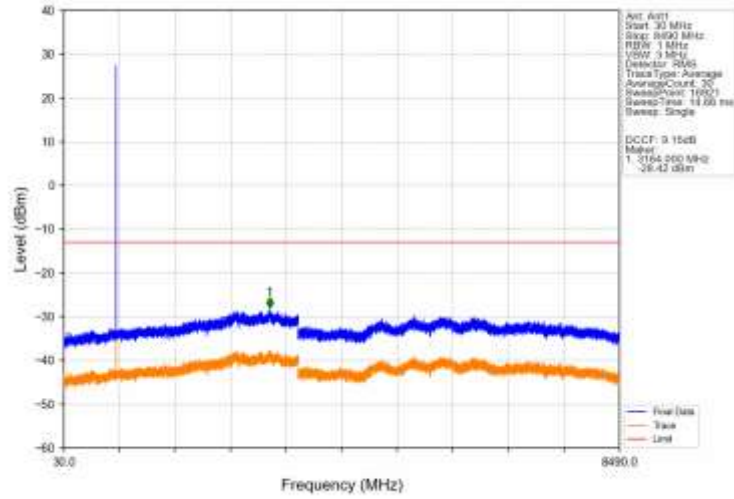
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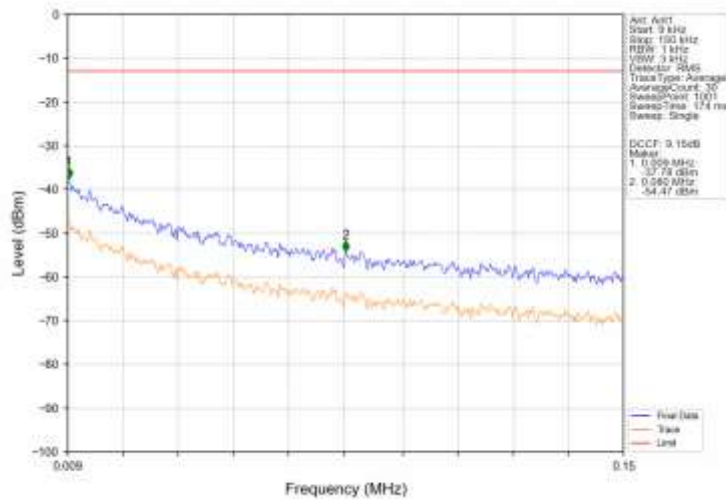
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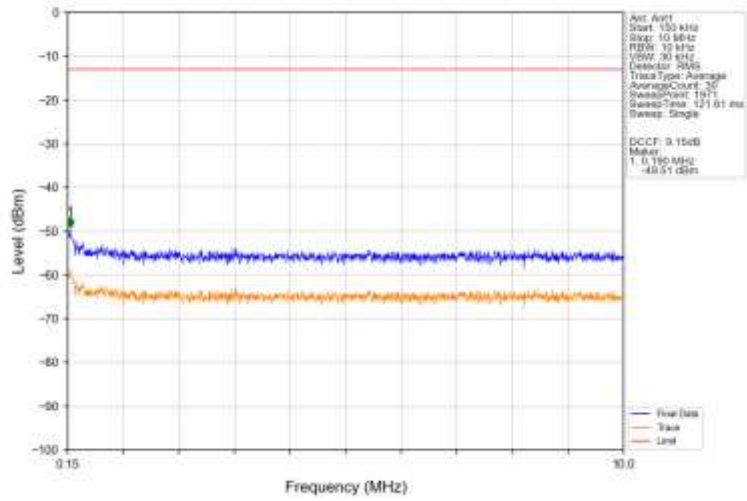
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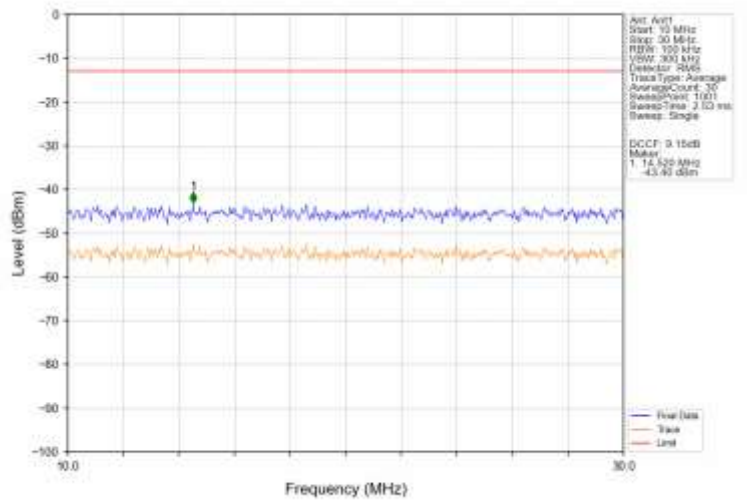
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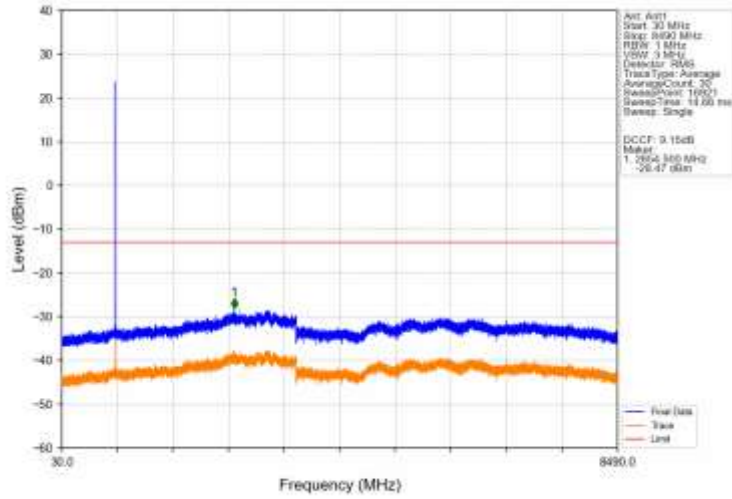
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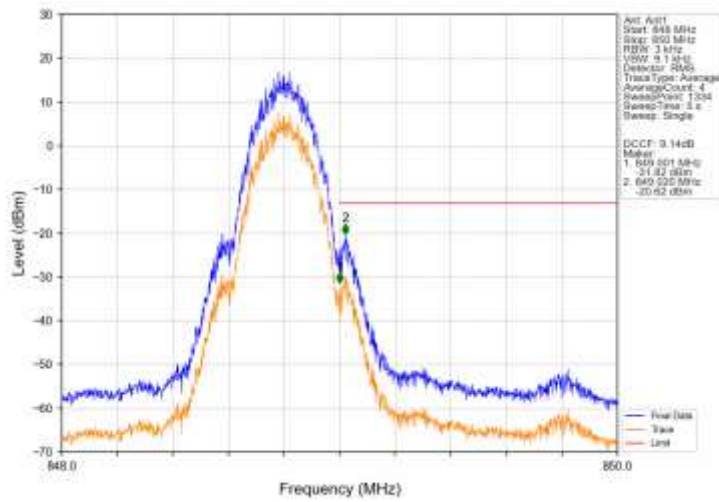
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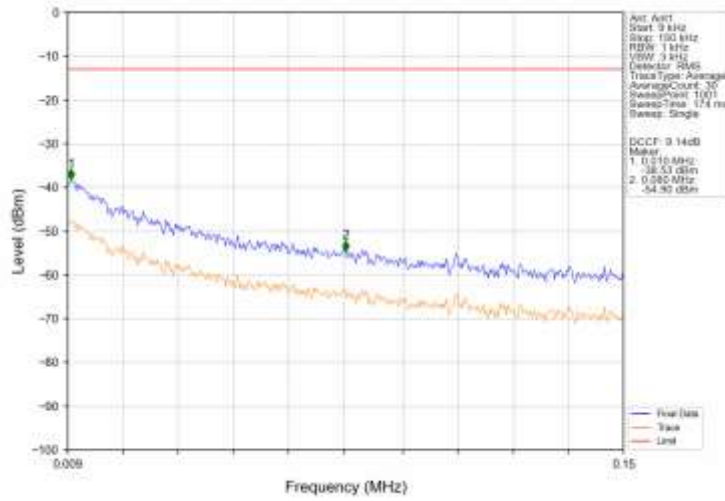
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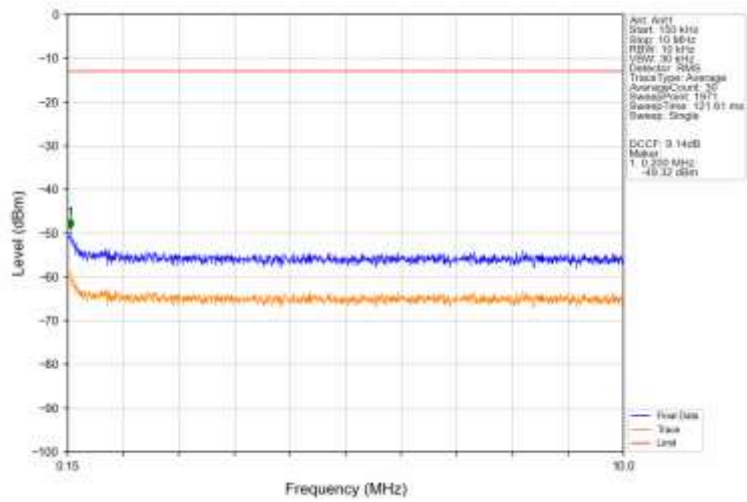
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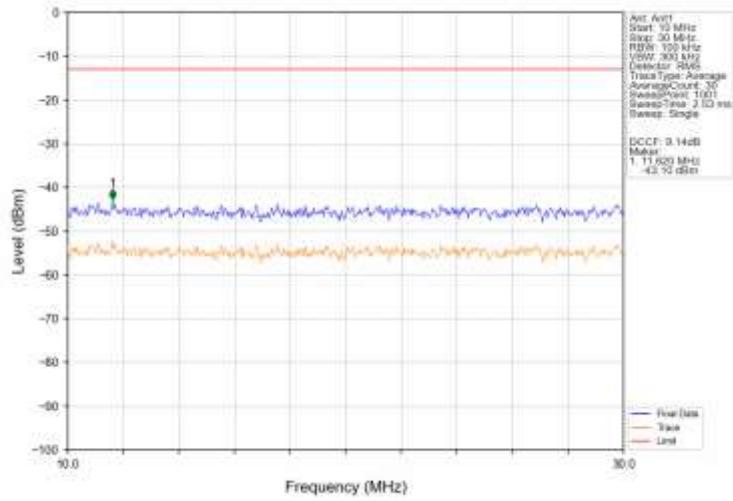
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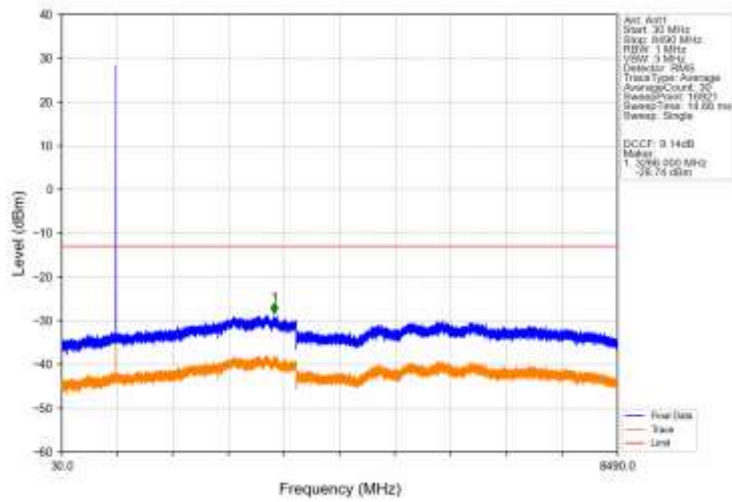
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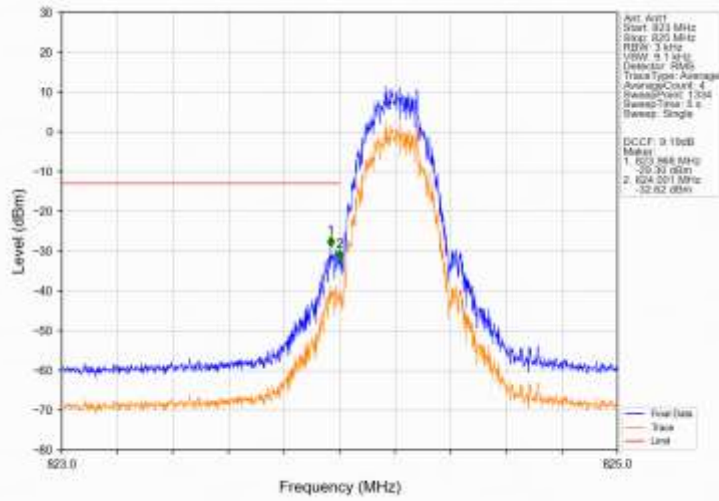
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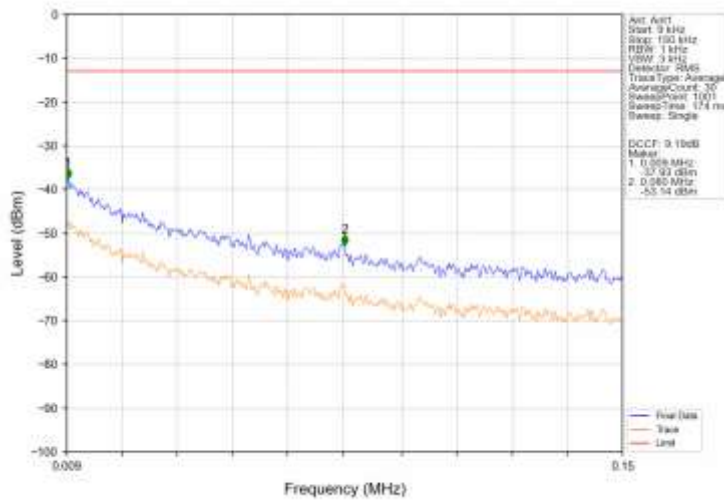
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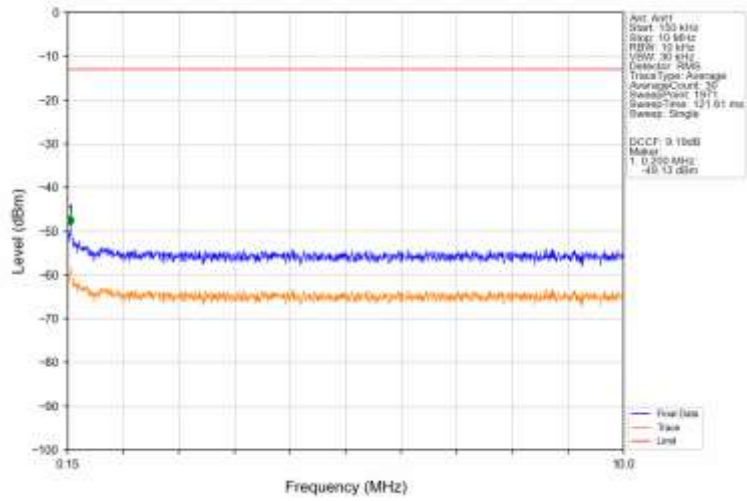
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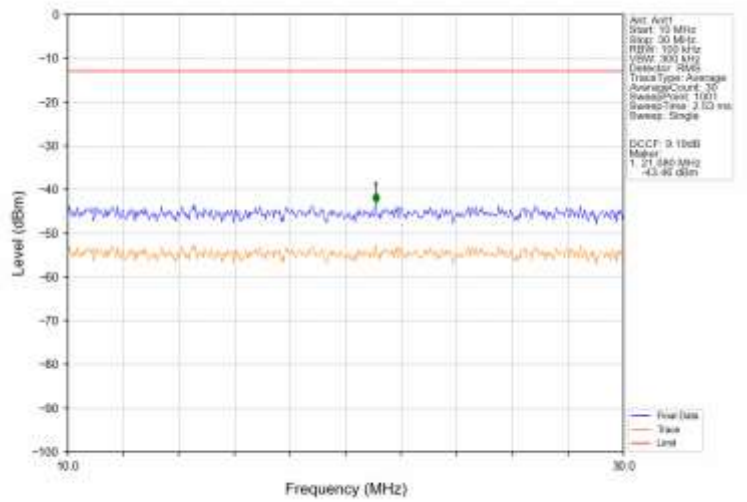
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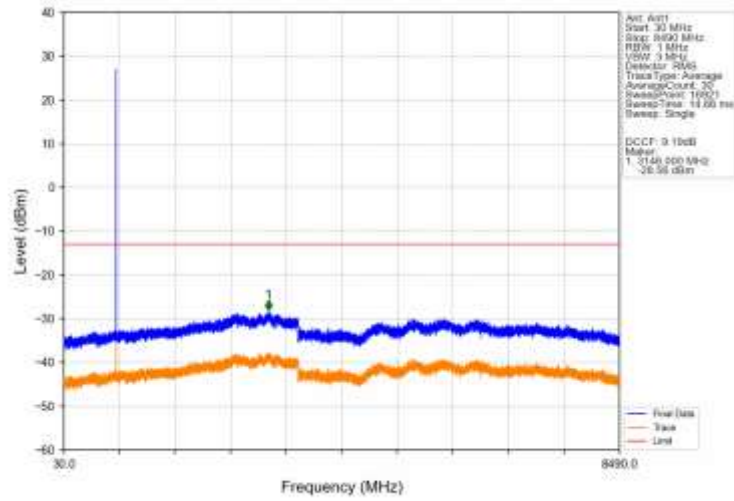
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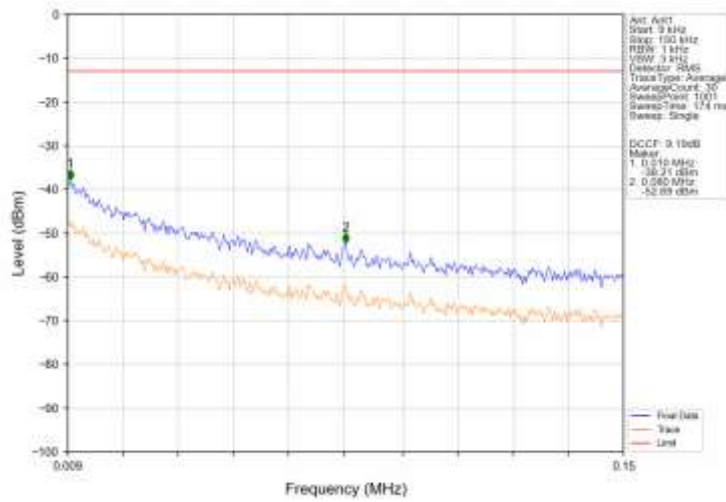
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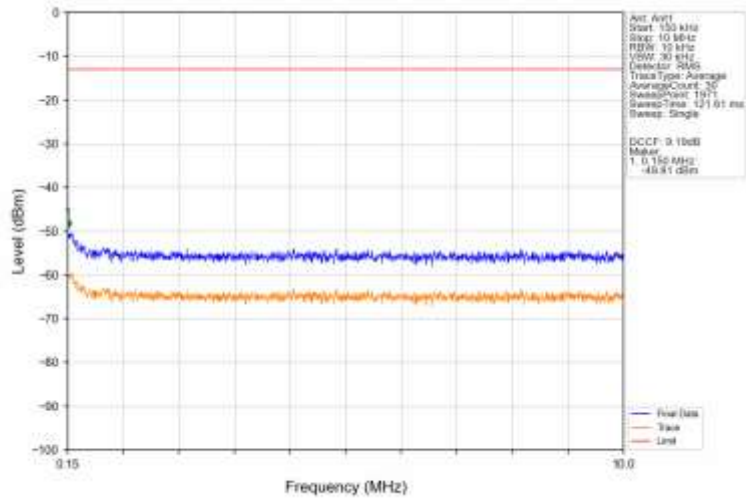
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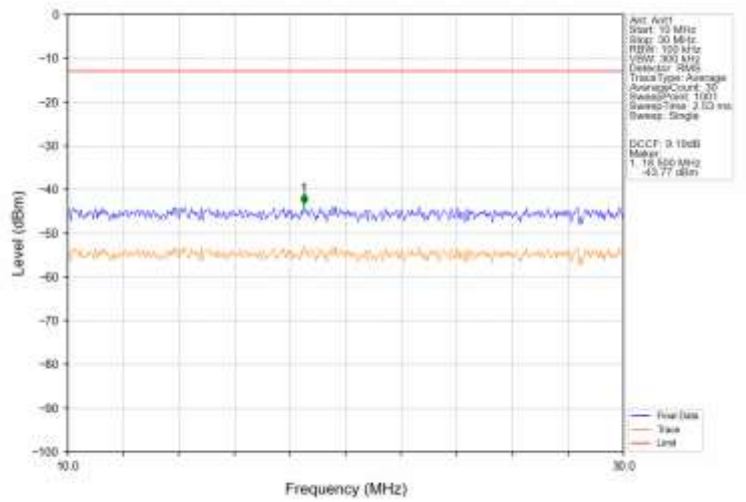
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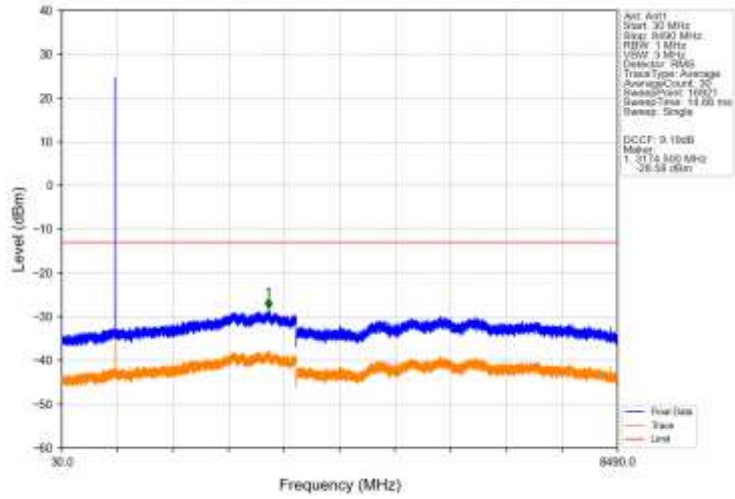
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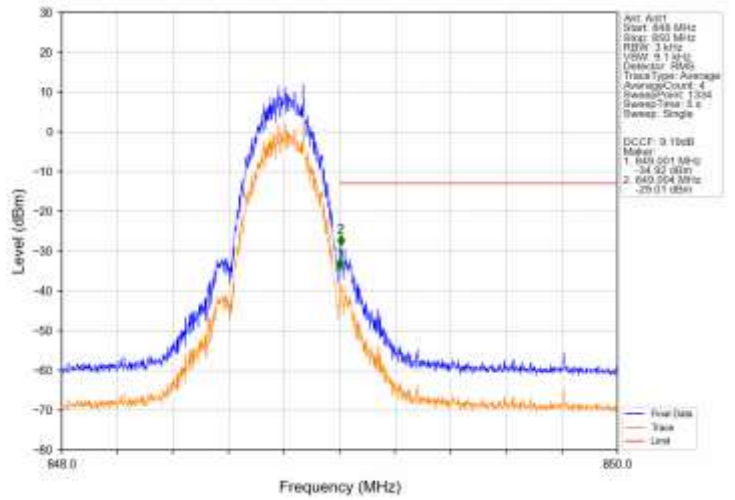
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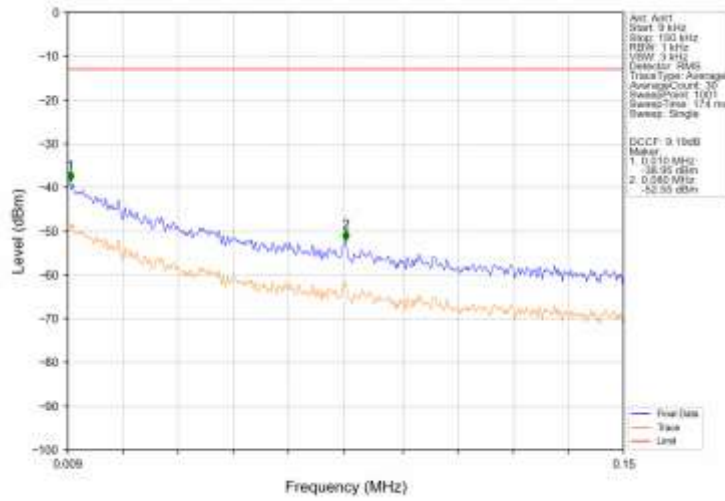
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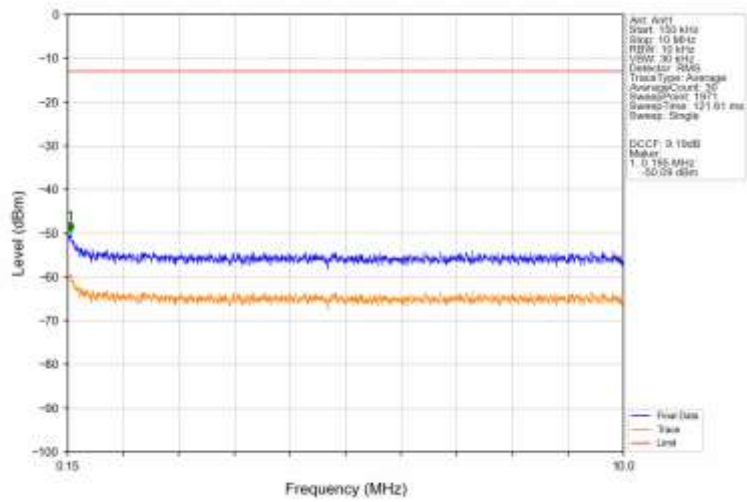
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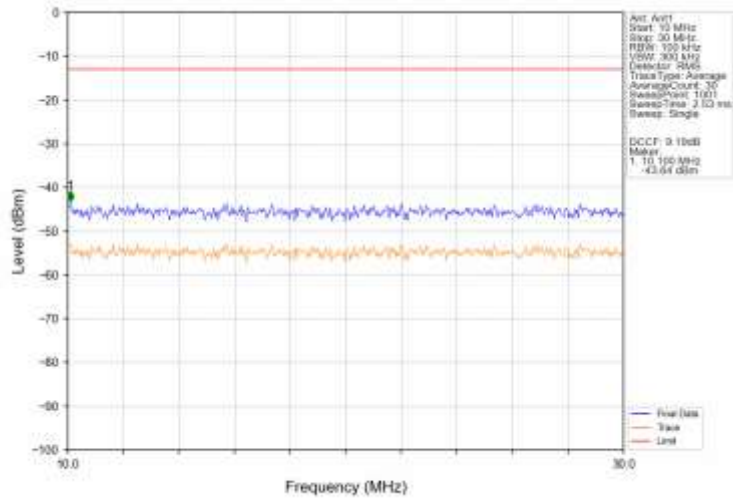
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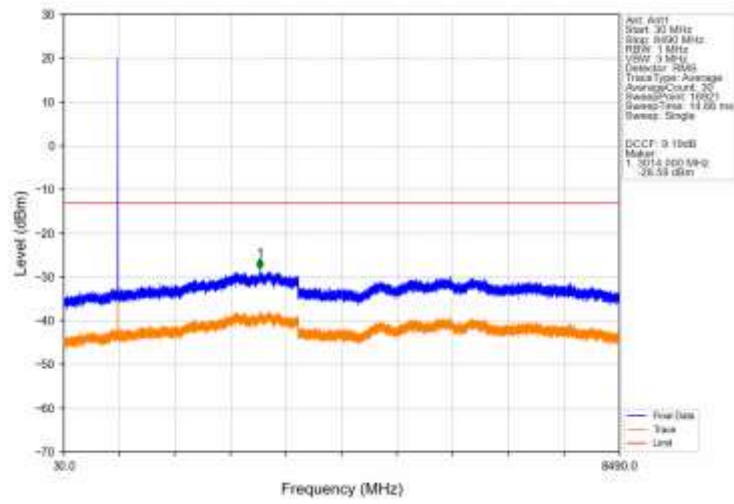
GSM850 EGPRS HCH 848.8MHz 1 TX Slot NTNV



GSM850 EGPRS HCH 848.8MHz 1 TX Slot NTNV



GSM850 EGPRS HCH 848.8MHz 1 TX Slot NTNV



7. Form731

7.1 Test Result

7.1.1 Form731_Power

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
GSM850	0.2	824.2	848.8	1.6596	0.0160	ppm	251KGXW	22H	32.20
GSM850	0.2	824.2	848.8	0.4436	0.0072	ppm	245KG7W	22H	26.47

7.1.2 Form731_ERP

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
GSM850	0.2	824.2	848.8	0.8492	0.0160	ppm	251KGXW	22H	29.29
GSM850	0.2	824.2	848.8	0.2270	0.0072	ppm	245KG7W	22H	23.56