

Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Mini Projector

Trade Mark: N/A

Test Model: HDP300

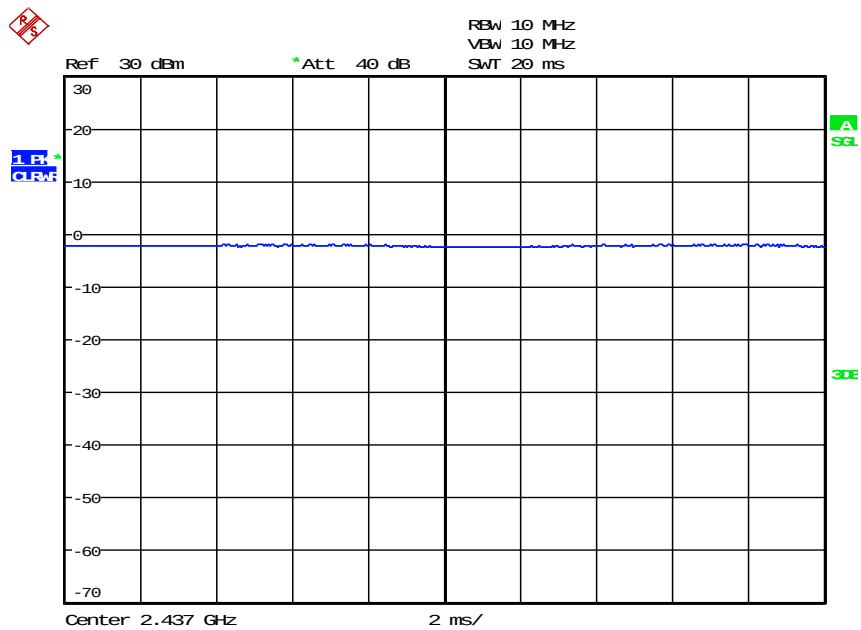
Environmental Conditions

Temperature:	22.8 ° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond.Lu
Supervised by:	Wang.Chuang

C.1 Duty Cycle

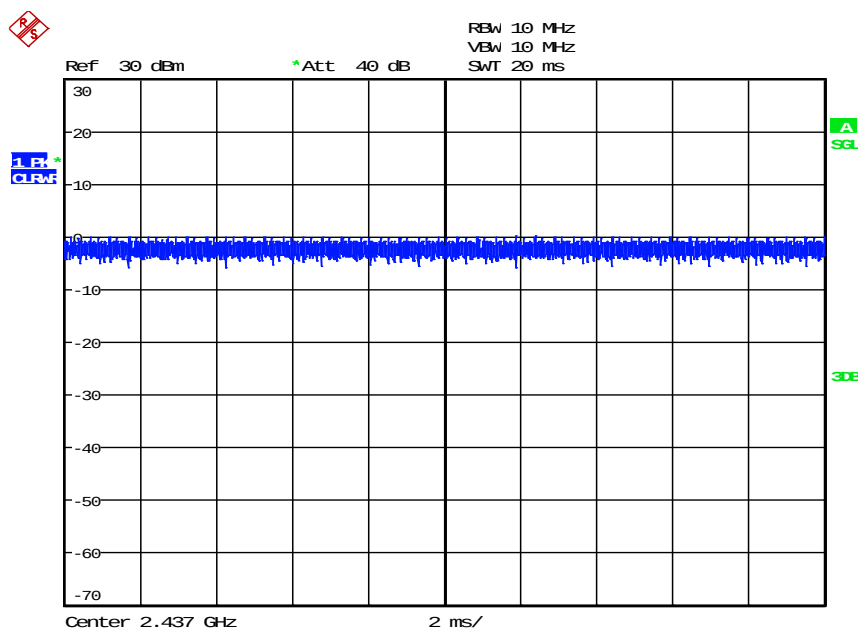
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20SISO	2437	Ant1	100	PASS
11N40SISO	2437	Ant1	100	PASS

Duty Cycle_11B_2437_Ant1



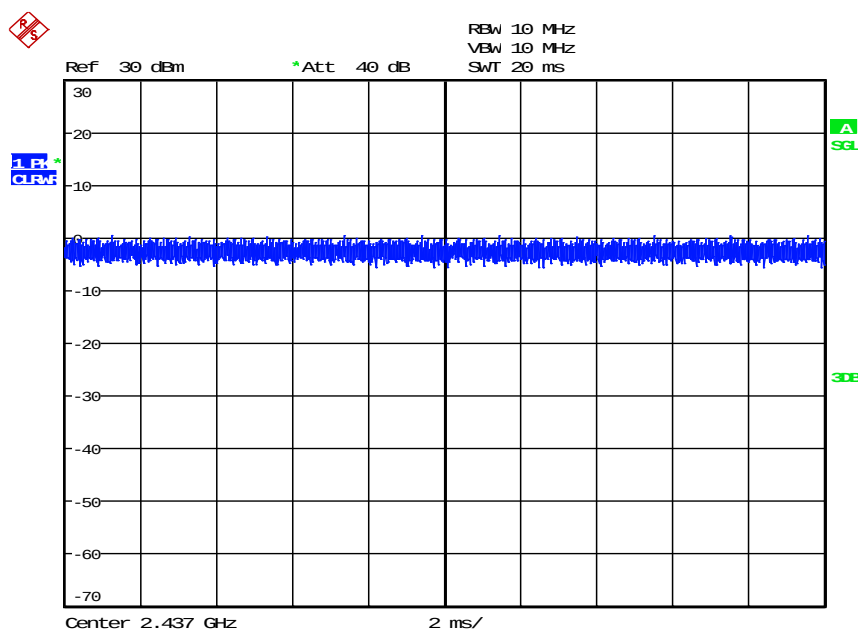
Date: 5.SEP.2019 11:26:35

Duty Cycle_11G_2437_Ant1



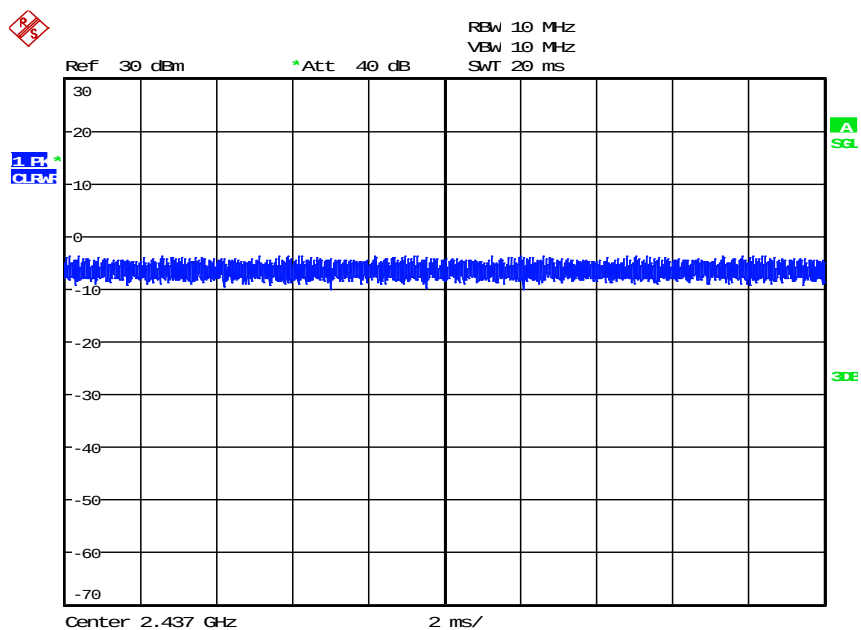
Date: 5.SEP.2019 11:26:59

Duty Cycle_11N20SISO_2437_Ant1



Date: 5.SEP.2019 11:27:35

Duty Cycle_11N40SISO_2437_Ant1



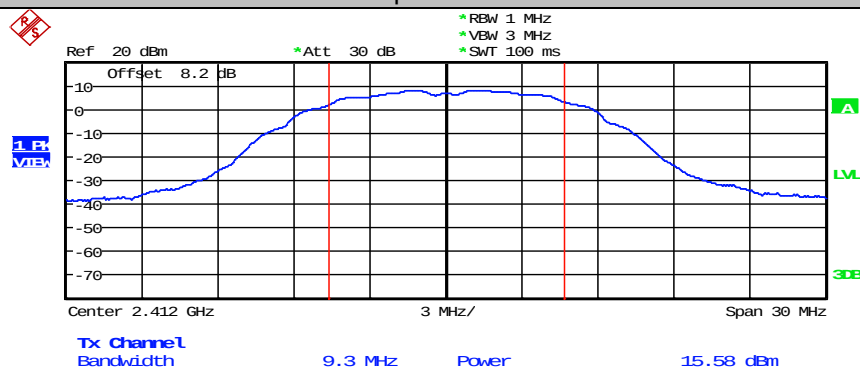
Date: 5.SEP.2019 11:28:08

C.2 Maximum Conducted Output Power

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	15.58	30	PASS
	MCH	15.69	30	PASS
	HCH	15.42	30	PASS
11G	LCH	14.09	30	PASS
	MCH	14.9	30	PASS
	HCH	14.95	30	PASS
11N20SISO	LCH	13	30	PASS
	MCH	14.24	30	PASS
	HCH	14.61	30	PASS
11N40SISO	LCH	13.37	30	PASS
	MCH	15.91	30	PASS
	HCH	16.02	30	PASS

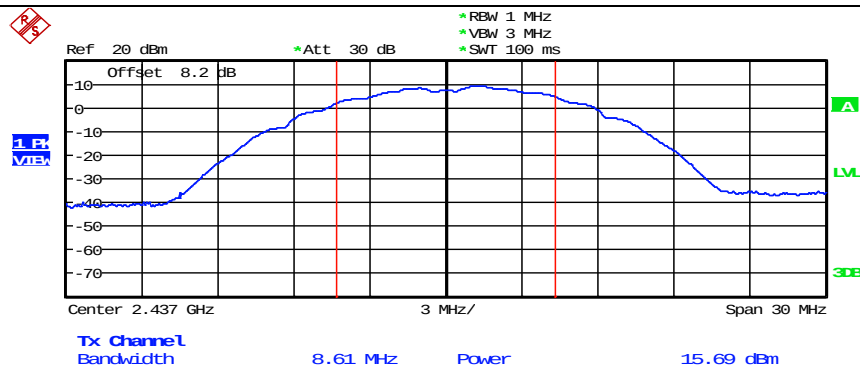
Test Graphs

11B/LCH

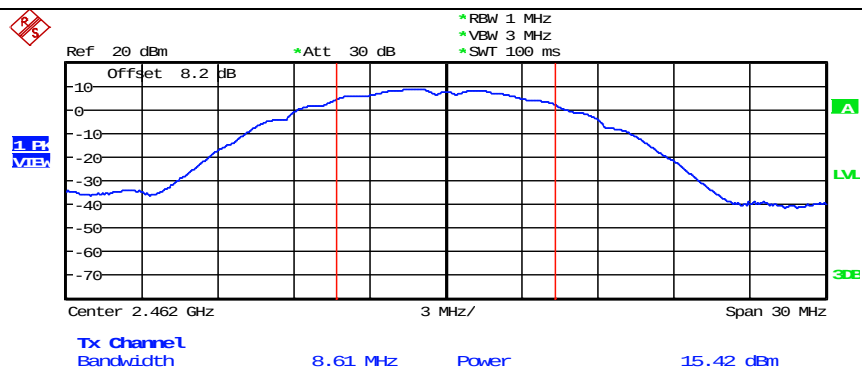


Date: 23.AUG.2019 19:21:25

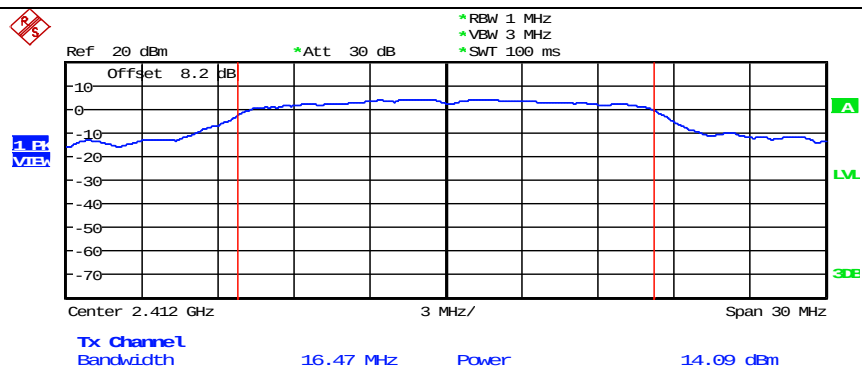
11B/MCH



Date: 3.SEP.2019 10:22:19

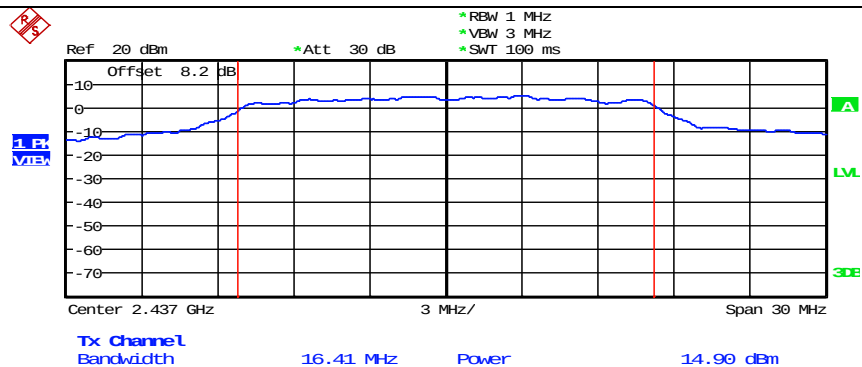


Date: 3.SEP.2019 10:25:53



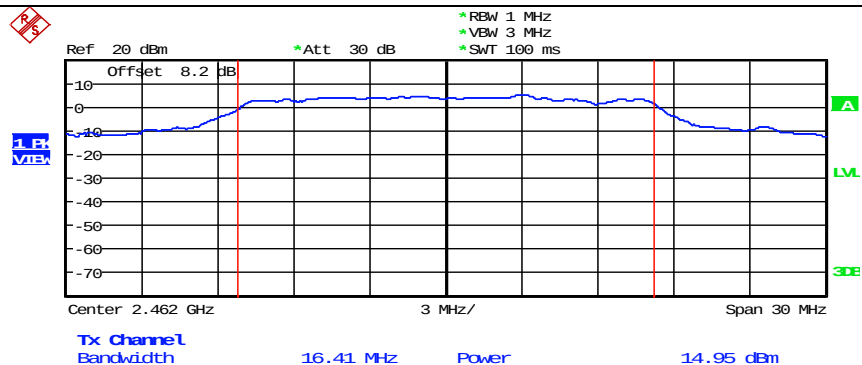
Date: 5.SEP.2019 10:34:15

11G/MCH



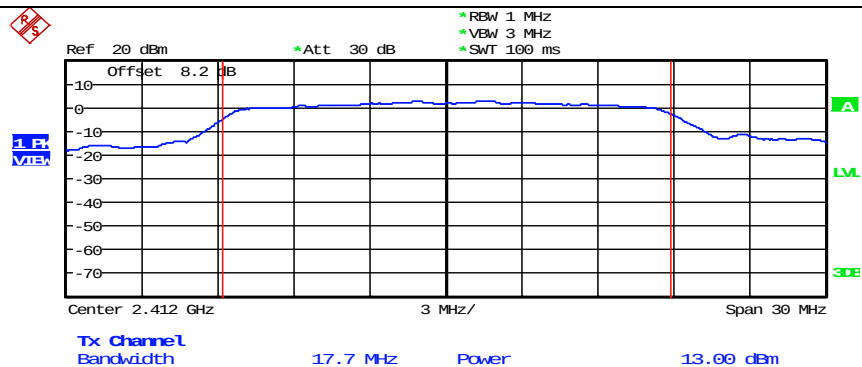
Date: 5.SEP.2019 10:40:58

11G/HCH



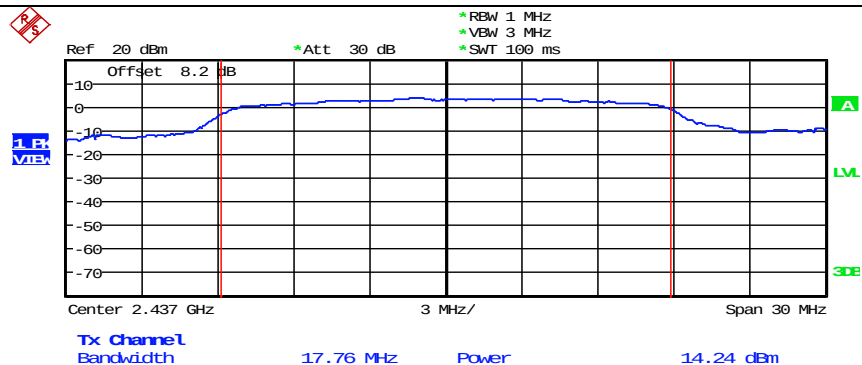
Date: 5.SEP.2019 10:43:26

11N20SISO/LCH



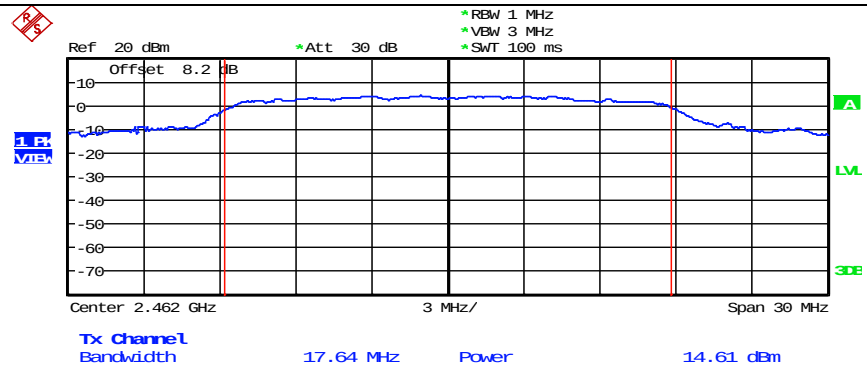
Date: 5.SEP.2019 10:46:56

11N20SISO/MCH



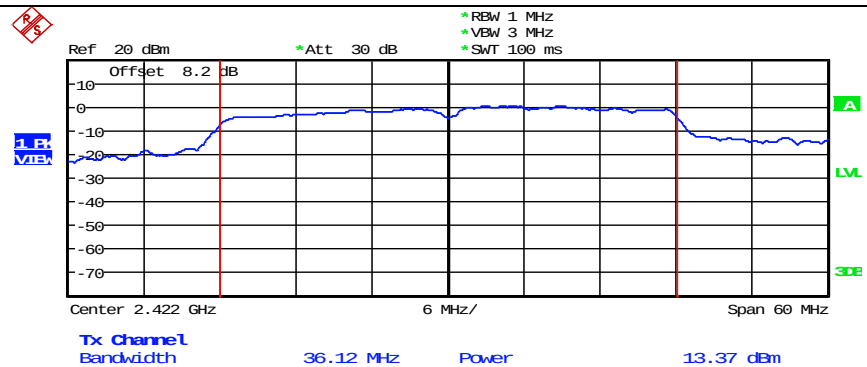
Date: 5.SEP.2019 11:08:57

11N20SISO/HCH



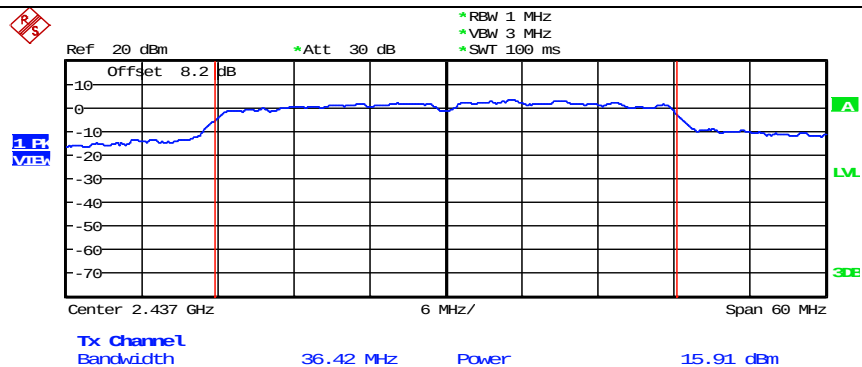
Date: 5.SEP.2019 11:12:10

11N40SISO/LCH



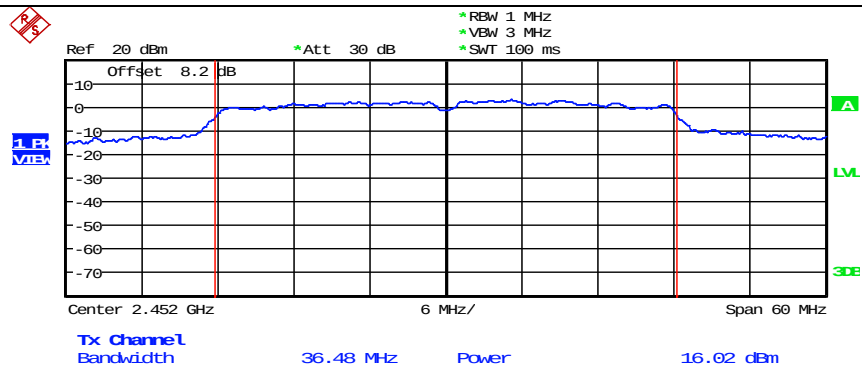
Date: 5.SEP.2019 11:17:11

11N40SISO/MCH



Date: 5.SEP.2019 11:20:39

11N40SISO/HCH



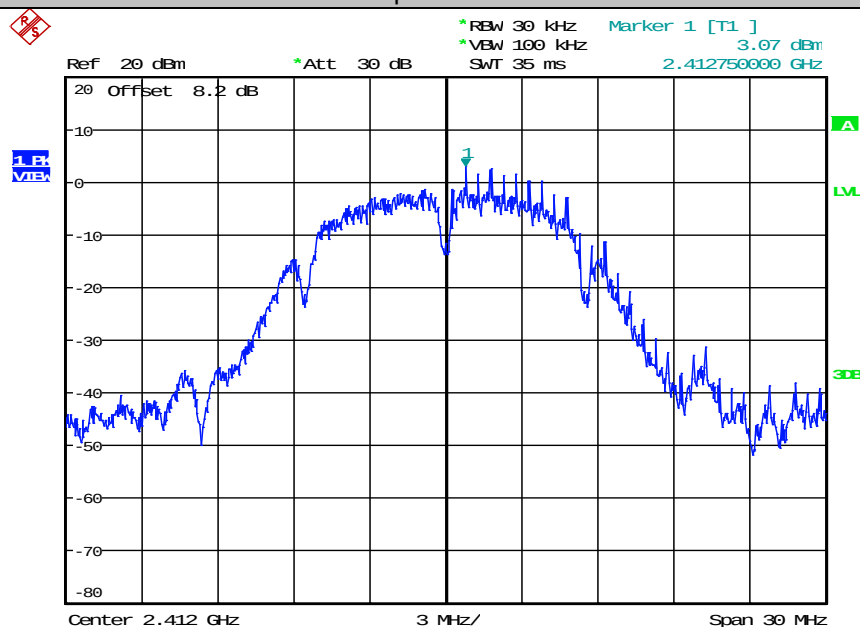
Date: 5.SEP.2019 11:22:46

C.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	3.070	8	PASS
	MCH	0.840	8	PASS
	HCH	0.030	8	PASS
11G	LCH	-9.800	8	PASS
	MCH	-8.250	8	PASS
	HCH	-8.480	8	PASS
11N20SISO	LCH	-10.210	8	PASS
	MCH	-9.160	8	PASS
	HCH	-8.240	8	PASS
11N40SISO	LCH	-13.610	8	PASS
	MCH	-11.340	8	PASS
	HCH	-11.710	8	PASS

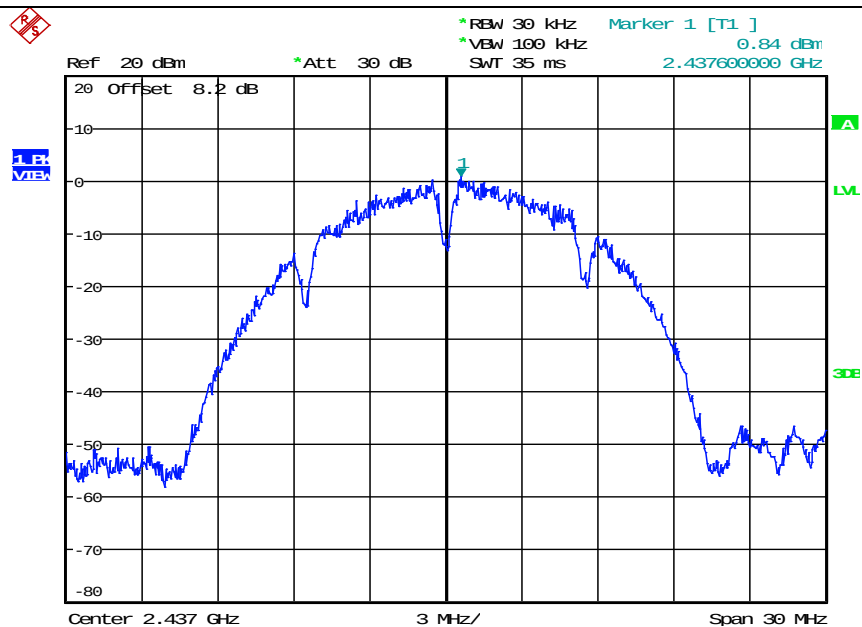
Test Graphs

11B/LCH



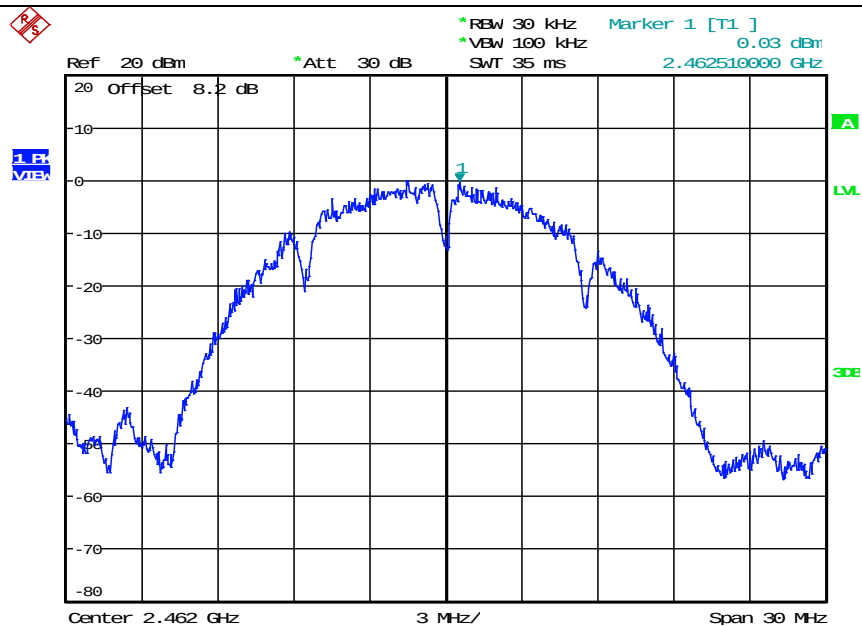
Date: 3.SEP.2019 10:12:38

11B/MCH



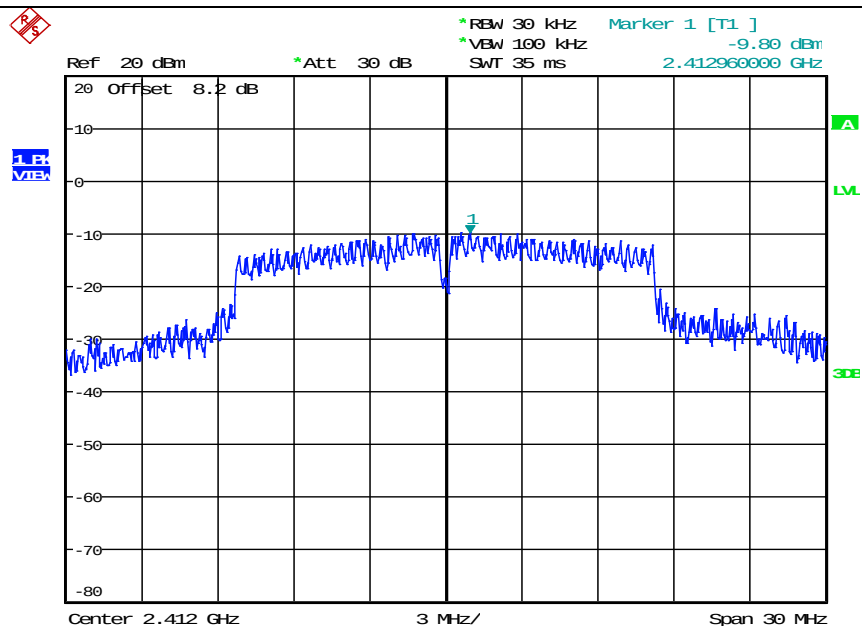
Date: 3.SEP.2019 10:22:32

11B/HCH



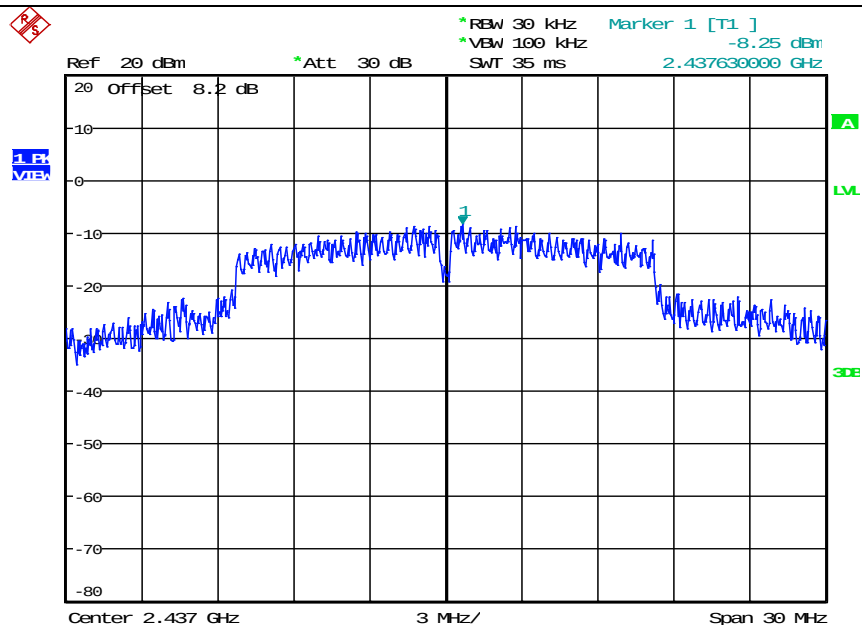
Date: 3.SEP.2019 10:26:06

11G/LCH



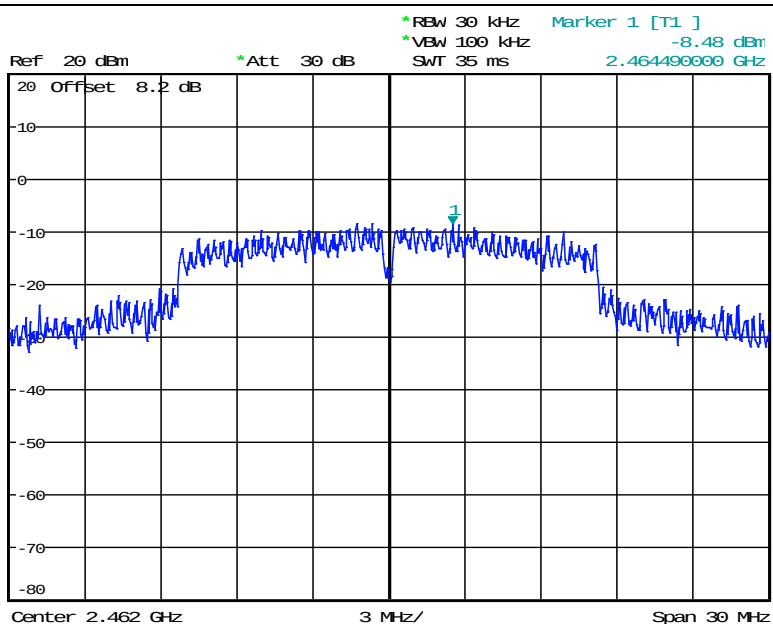
Date: 5.SEP.2019 10:34:28

11G/MCH



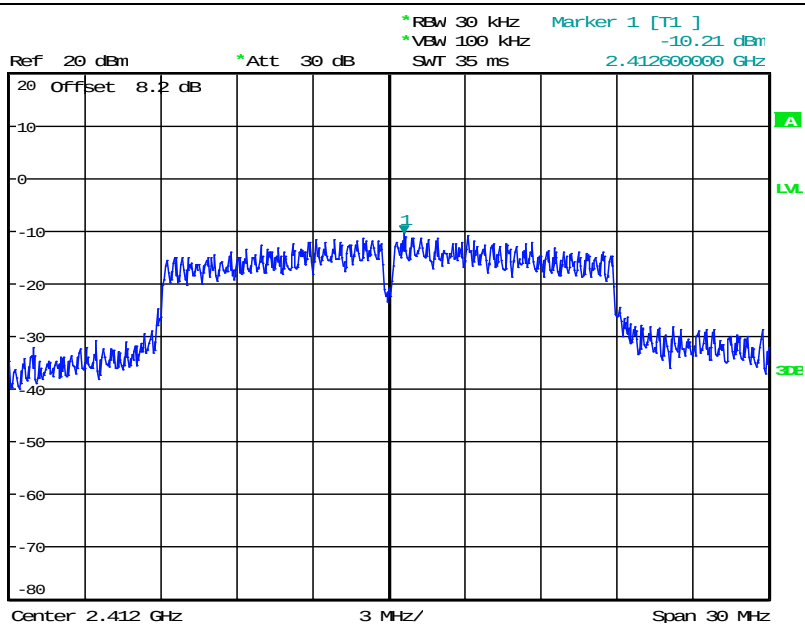
Date: 5.SEP.2019 10:41:11

11G/HCH

1 F
VIEW

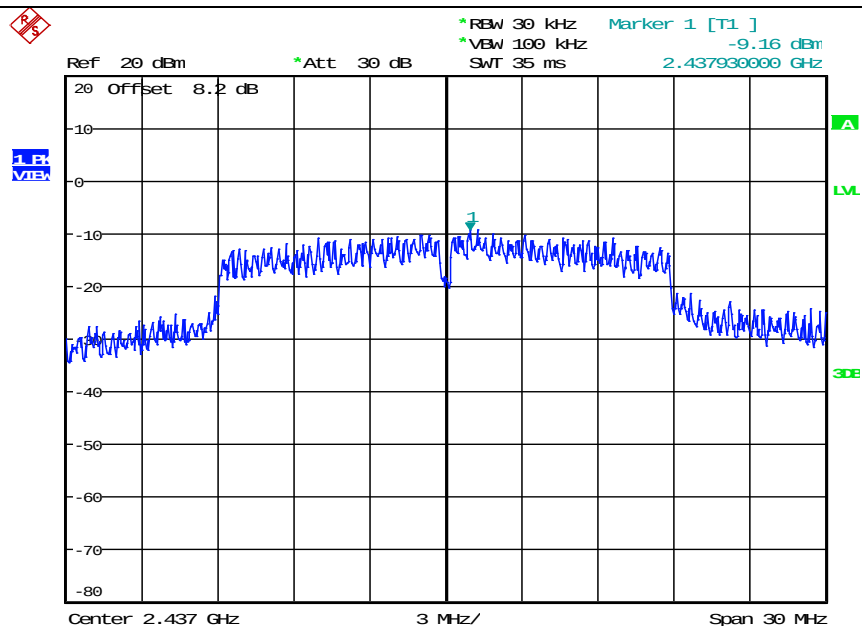
Date: 5.SEP.2019 10:43:38

11N20SISO/LCH

1 F
VIEW

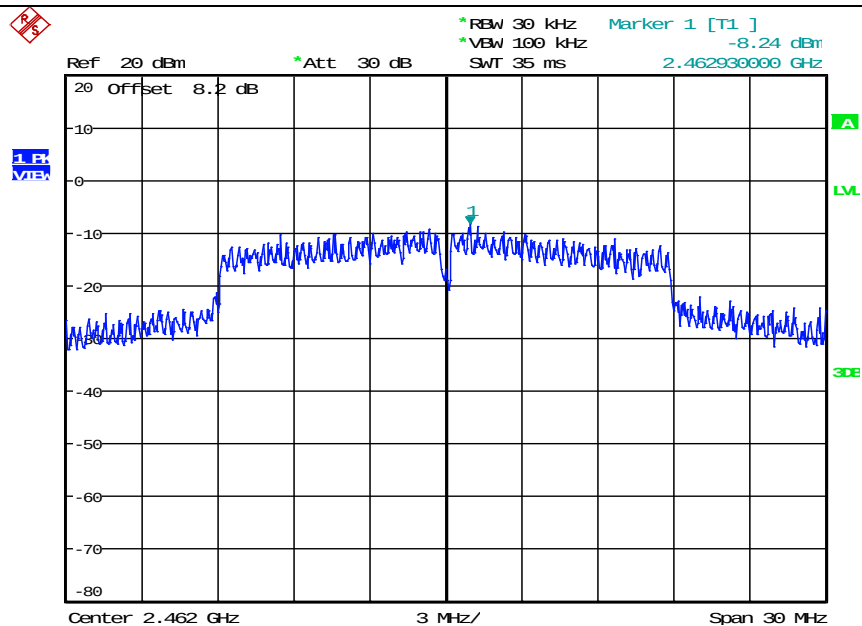
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11N20SISO/MCH



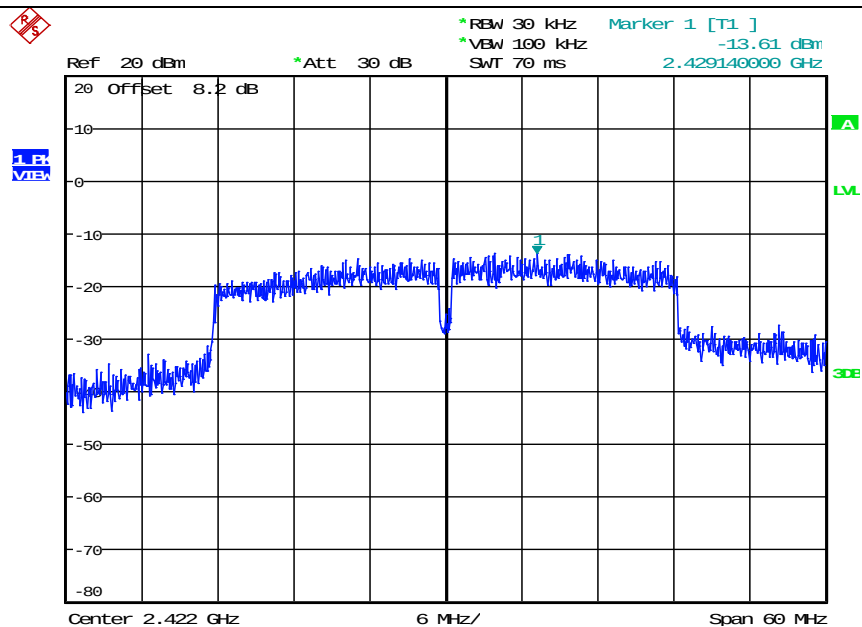
Date: 5.SEP.2019 11:09:10

11N20SISO/HCH



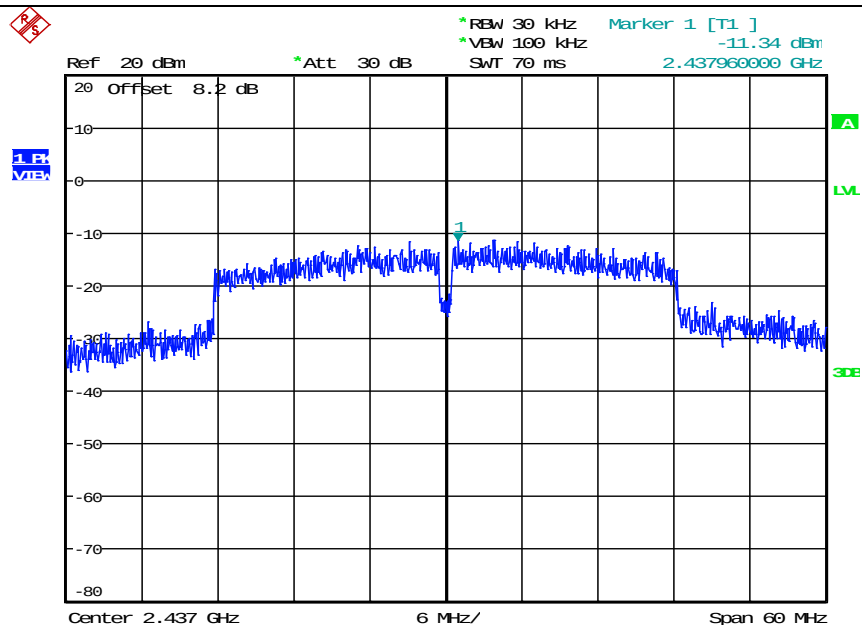
Date: 5.SEP.2019 11:12:23

11N40SISO/LCH



Date: 5.SEP.2019 11:17:23

11N40SISO/MCH

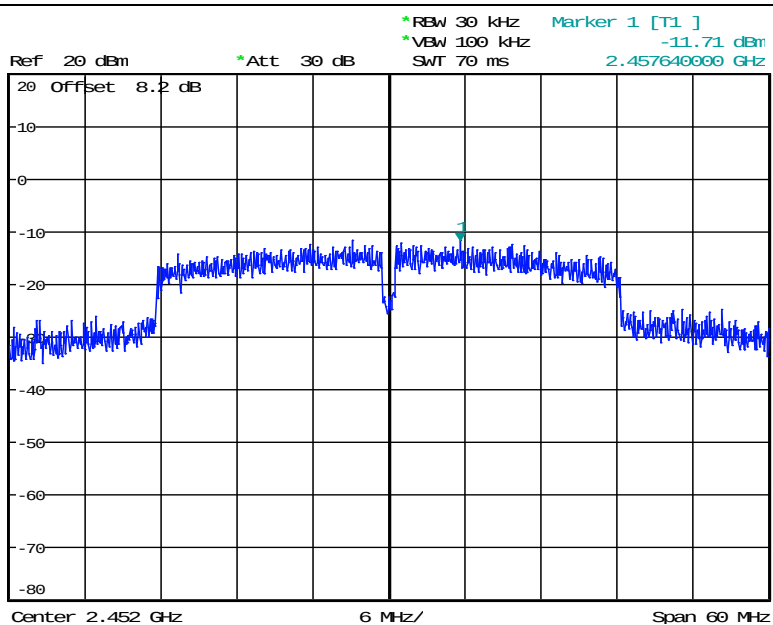


Date: 5.SEP.2019 11:20:52

11N40SISO/HCH



1 F
VIEW



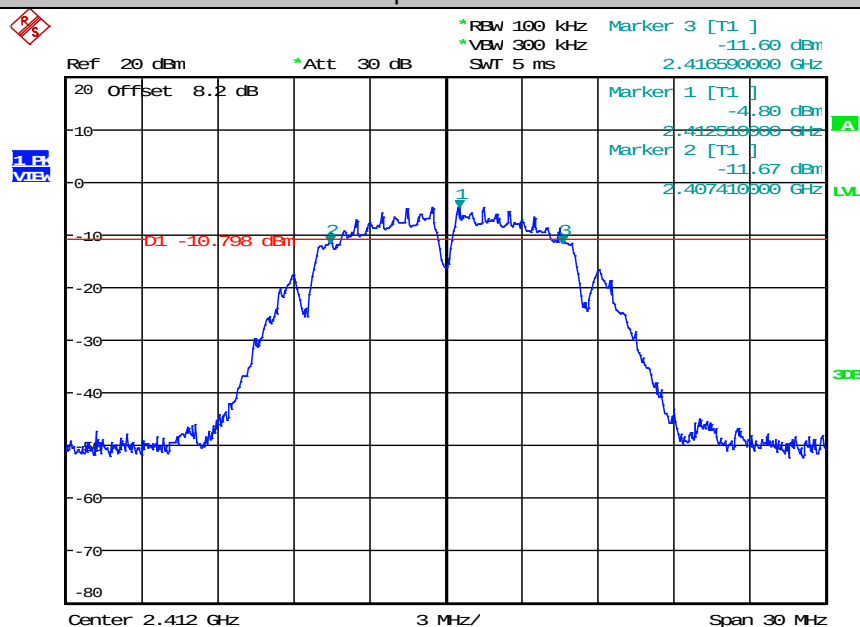
Date: 5.SEP.2019 11:22:59

C.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.180	≥ 0.5	PASS
	MCH	8.610	≥ 0.5	PASS
	HCH	8.610	≥ 0.5	PASS
11G	LCH	16.470	≥ 0.5	PASS
	MCH	16.410	≥ 0.5	PASS
	HCH	16.410	≥ 0.5	PASS
11N20SISO	LCH	17.700	≥ 0.5	PASS
	MCH	17.760	≥ 0.5	PASS
	HCH	17.640	≥ 0.5	PASS
11N40SISO	LCH	36.120	≥ 0.5	PASS
	MCH	36.420	≥ 0.5	PASS
	HCH	36.480	≥ 0.5	PASS

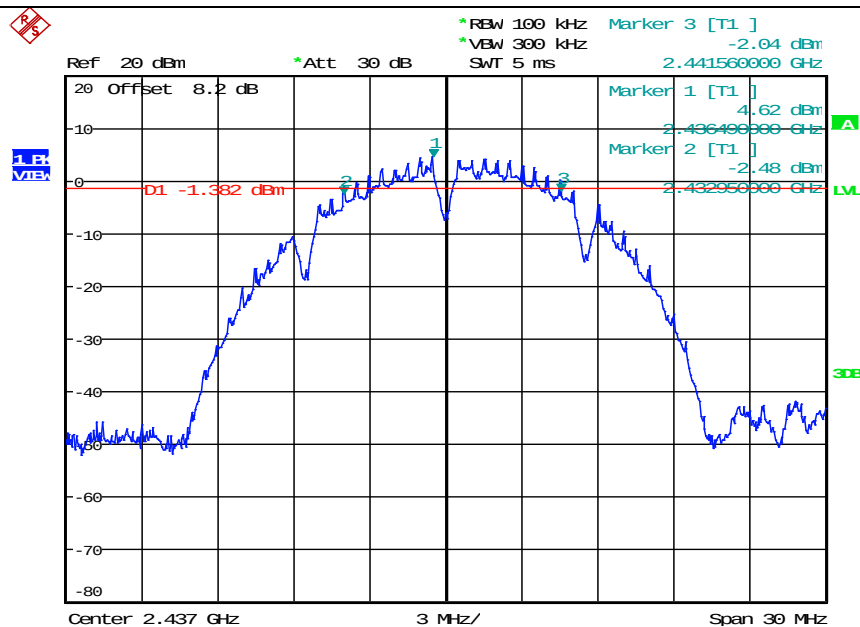
Test Graphs

11B/LCH



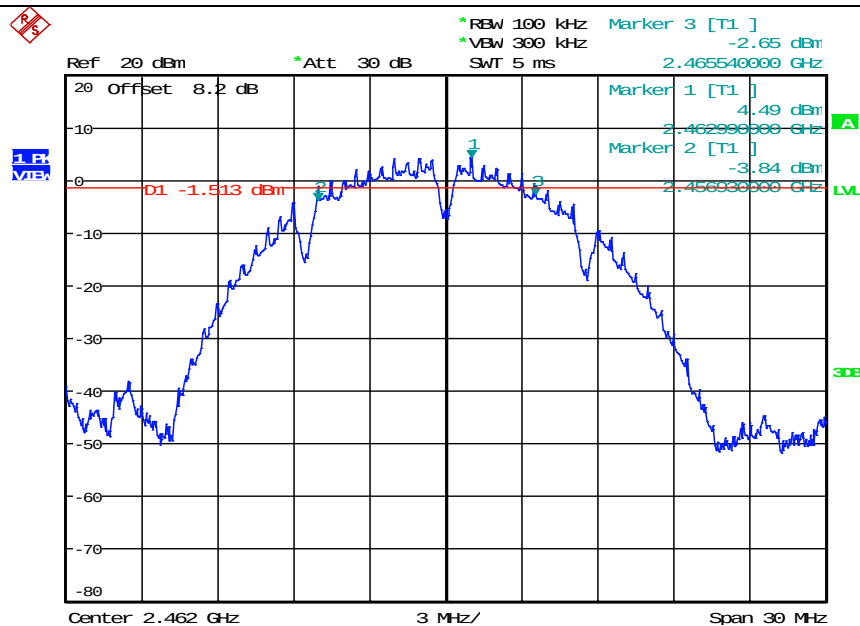
Date: 2.SEP.2019 18:17:03

11B/MCH



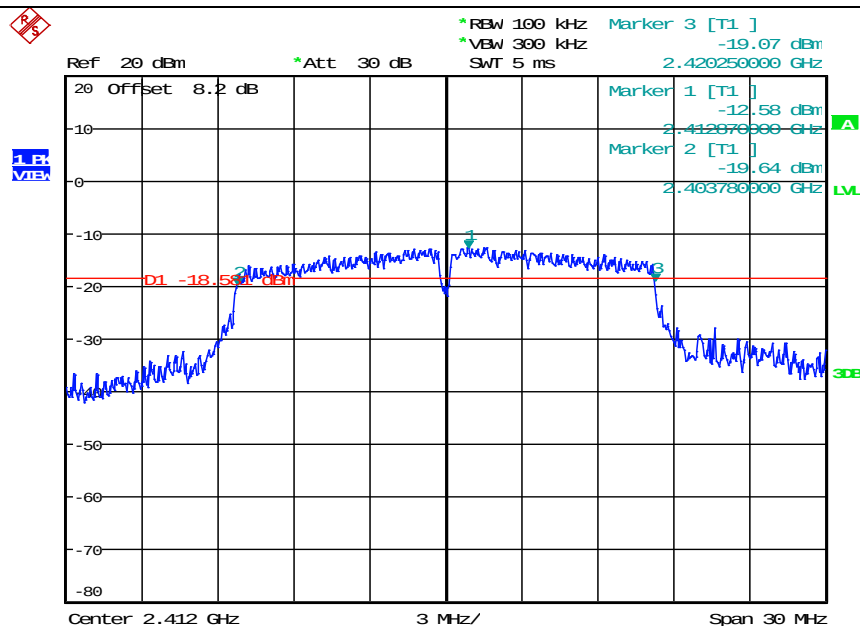
Date: 3.SEP.2019 10:21:44

11B/HCH



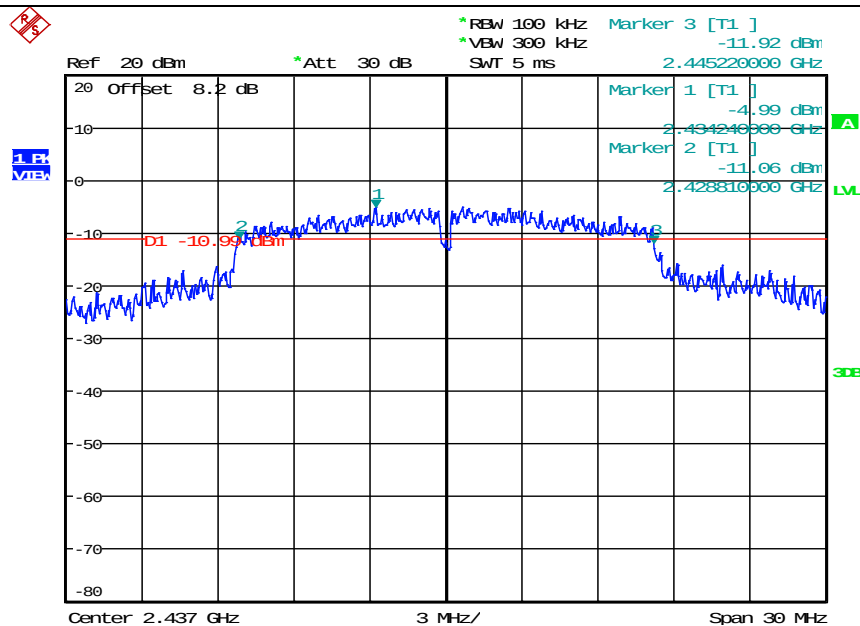
Date: 3.SEP.2019 10:25:19

11G/LCH



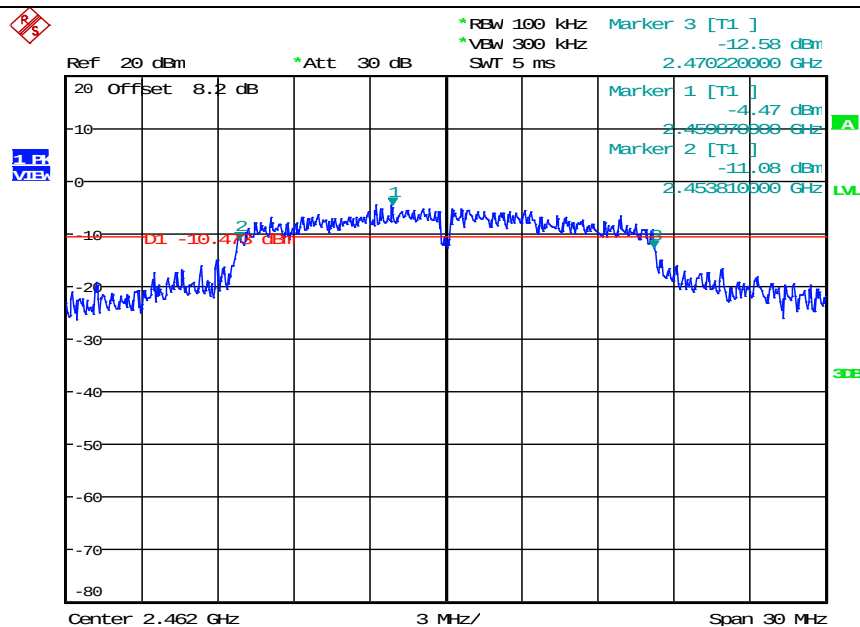
Date: 5.SEP.2019 10:32:05

11G/MCH



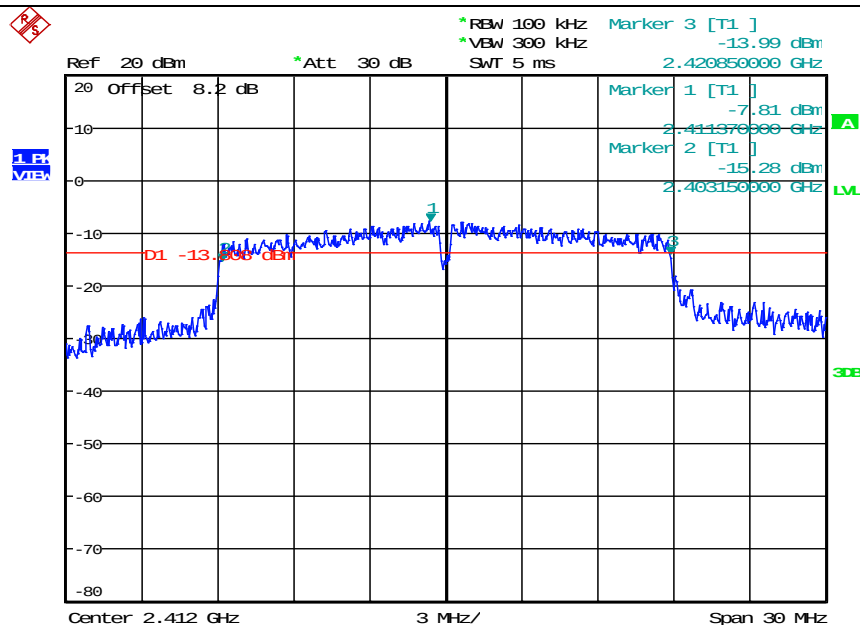
Date: 5.SEP.2019 10:40:23

11G/HCH



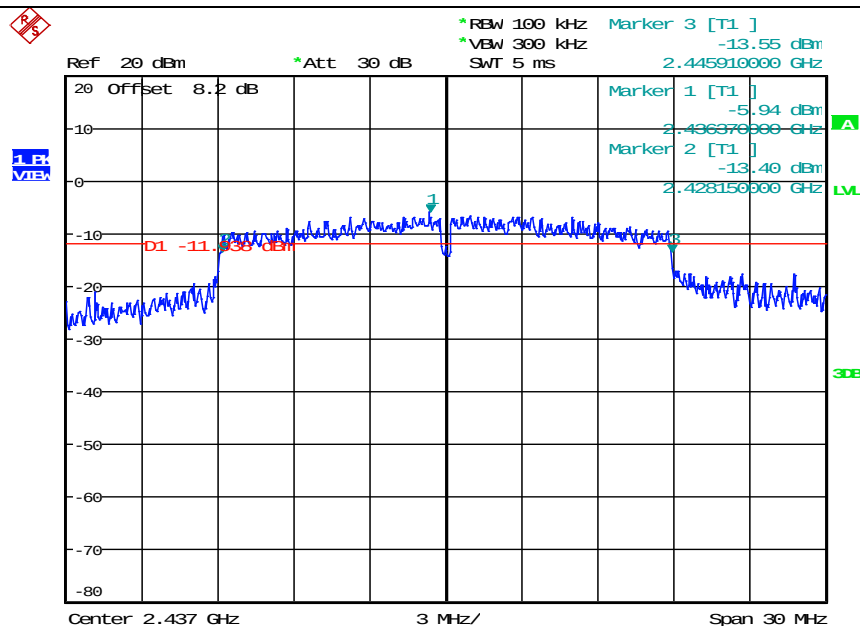
Date: 5.SEP.2019 10:42:51

11N20SISO/LCH



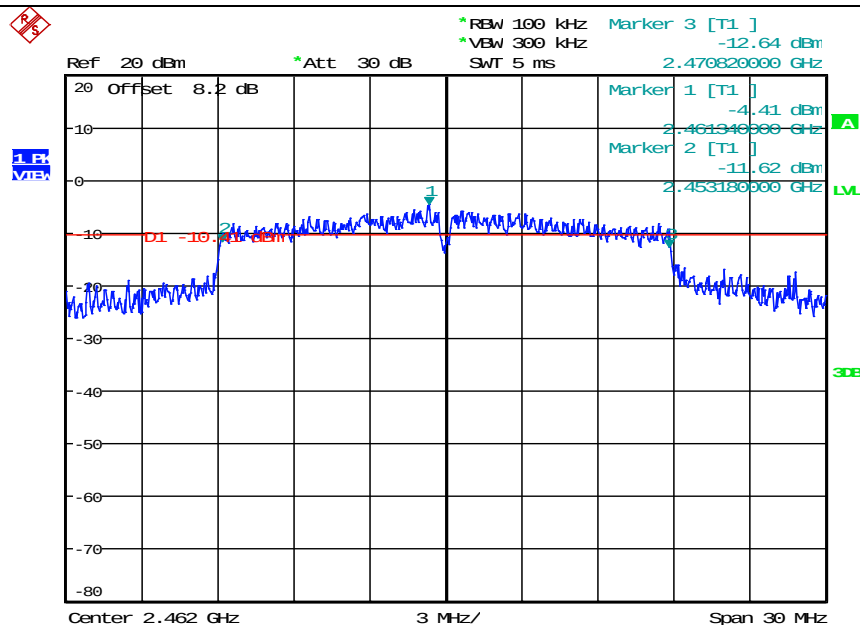
Date: 5.SEP.2019 10:46:21

11N20SISO/MCH



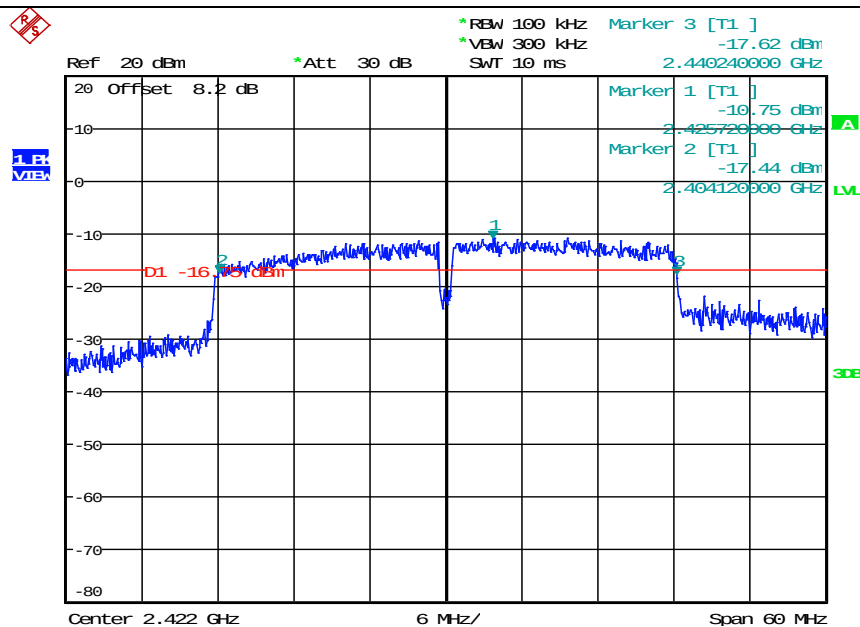
Date: 5.SEP.2019 11:08:22

11N20SISO/HCH



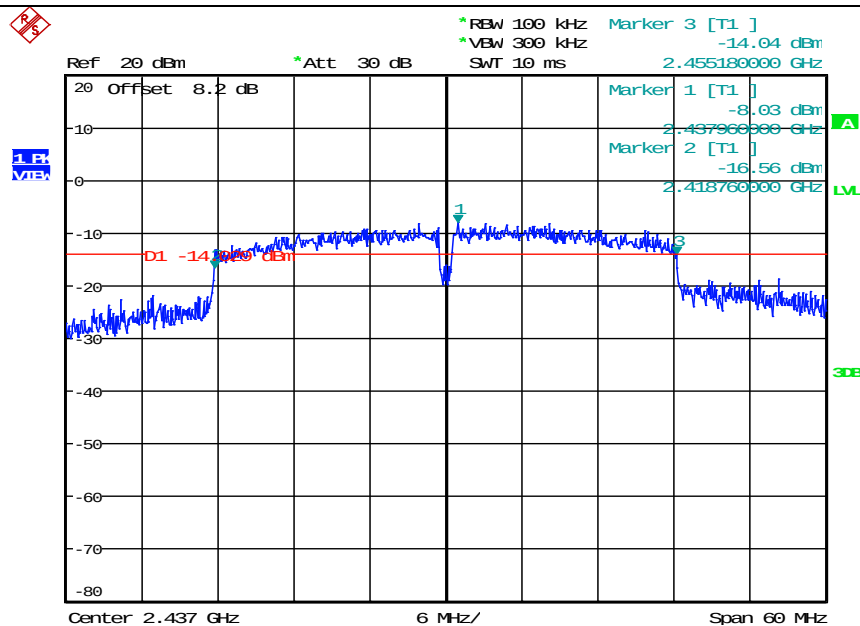
Date: 5.SEP.2019 11:11:35

11N40SISO/LCH



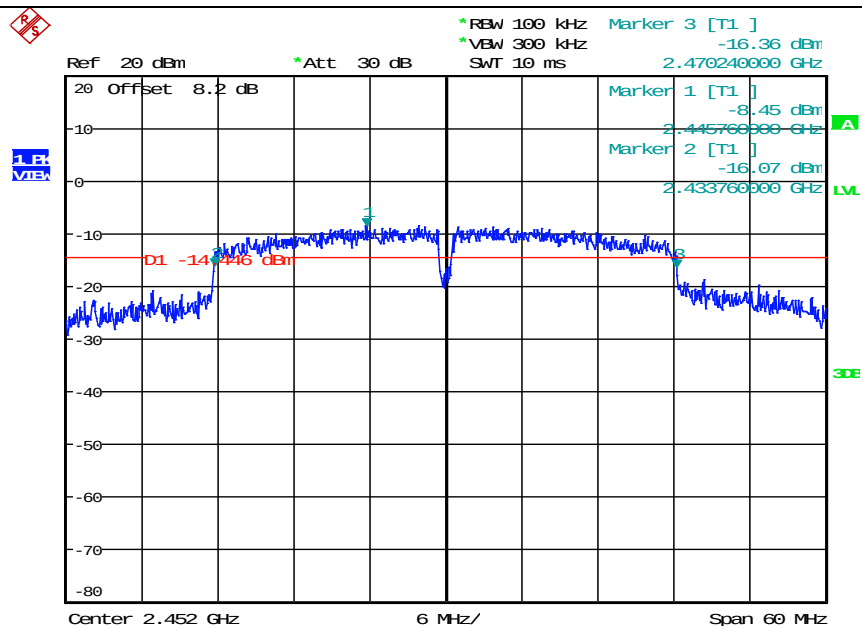
Date: 5.SEP.2019 11:16:36

11N40SISO/MCH



Date: 5.SEP.2019 11:20:05

11N40SISO/HCH



Date: 5.SEP.2019 11:22:11

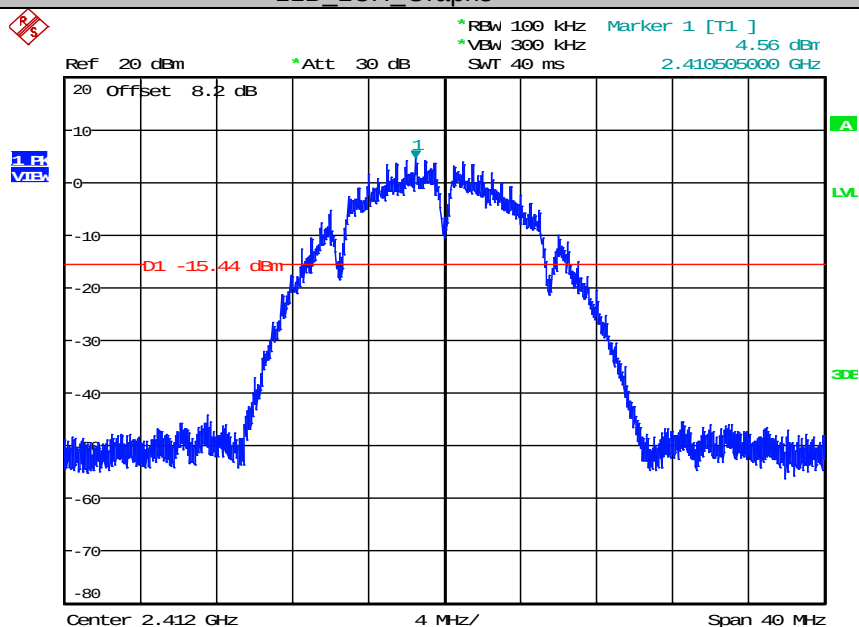
C.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdic
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					t
11B	LCH	4.56	-31.610	-15.440	PASS
	MCH	5.41	-30.820	-14.590	PASS
	HCH	5.29	-31.060	-14.710	PASS
11G	LCH	-6.34	-31.950	-26.340	PASS
	MCH	-5.17	-31.870	-25.170	PASS
	HCH	-4.33	-32.230	-24.330	PASS
11N20 SISO	LCH	-6.03	-31.180	-26.030	PASS
	MCH	-6.05	-31.920	-26.050	PASS
	HCH	-5.25	-31.530	-25.250	PASS
11N40 SISO	LCH	-10.78	-31.440	-30.780	PASS
	MCH	-8.42	-32.210	-28.420	PASS
	HCH	-8.5	-31.390	-28.500	PASS

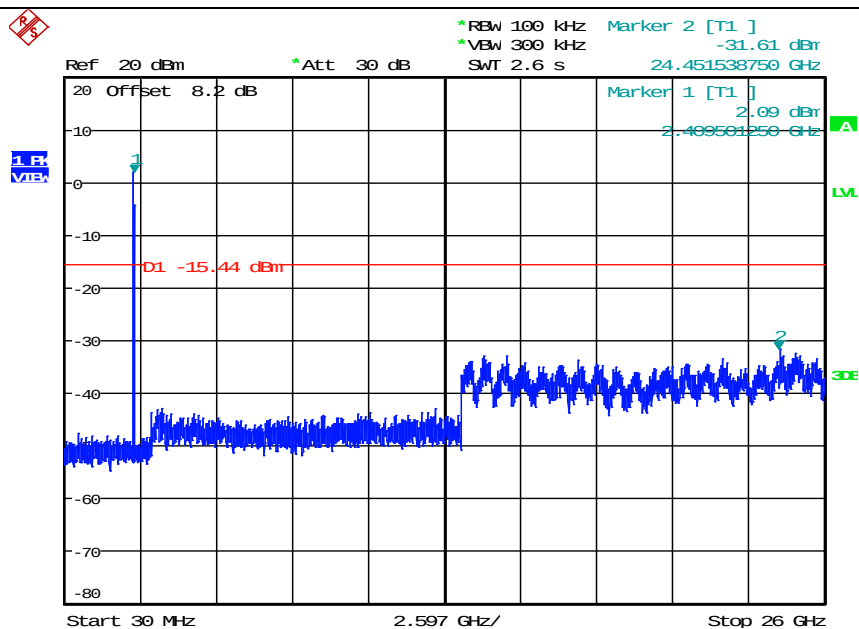
11B_LCH_Graphs

Pref/11B/LCH



Date: 3.SEP.2019 10:19:55

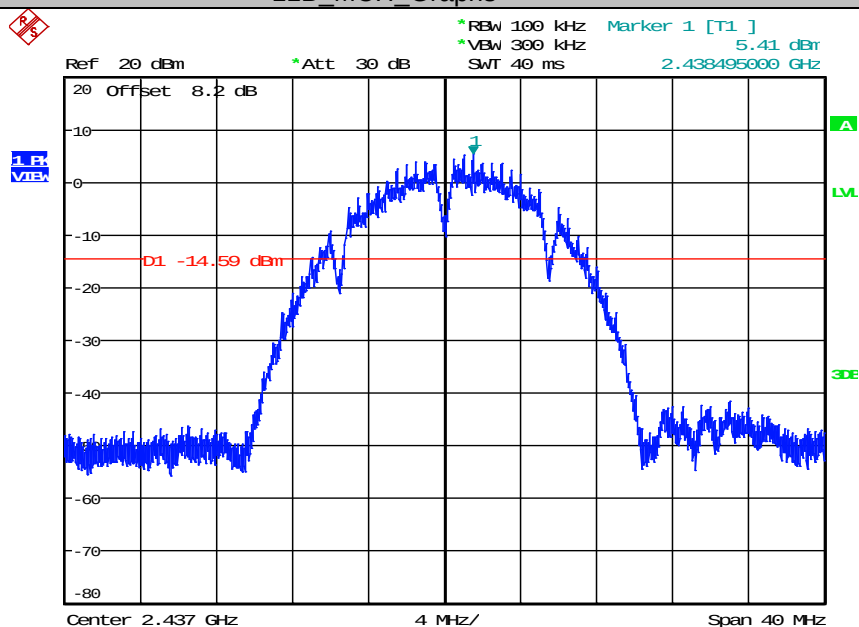
Puw/11B/LCH



Date: 3.SEP.2019 10:20:10

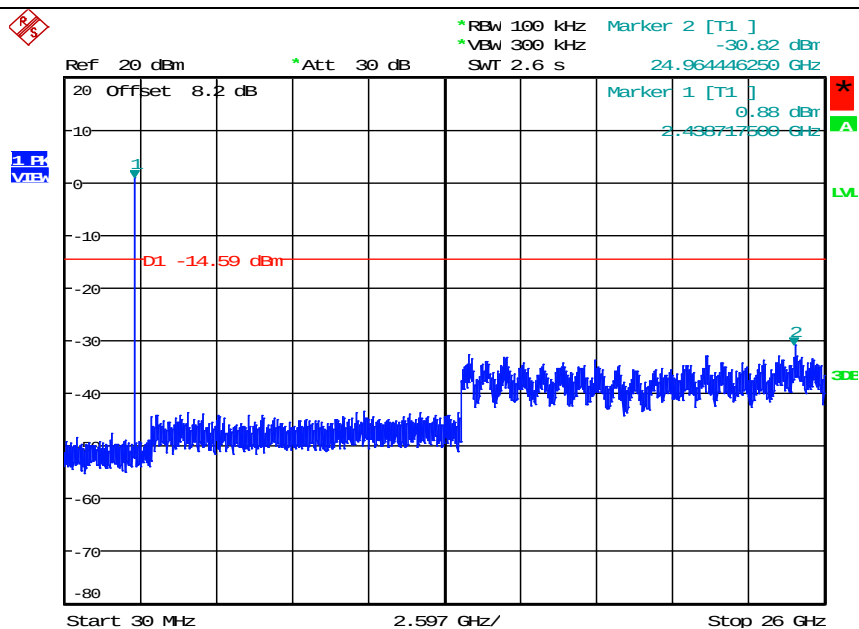
11B_MCH_Graphs

Pref/11B/MCH



Date: 3.SEP.2019 10:23:52

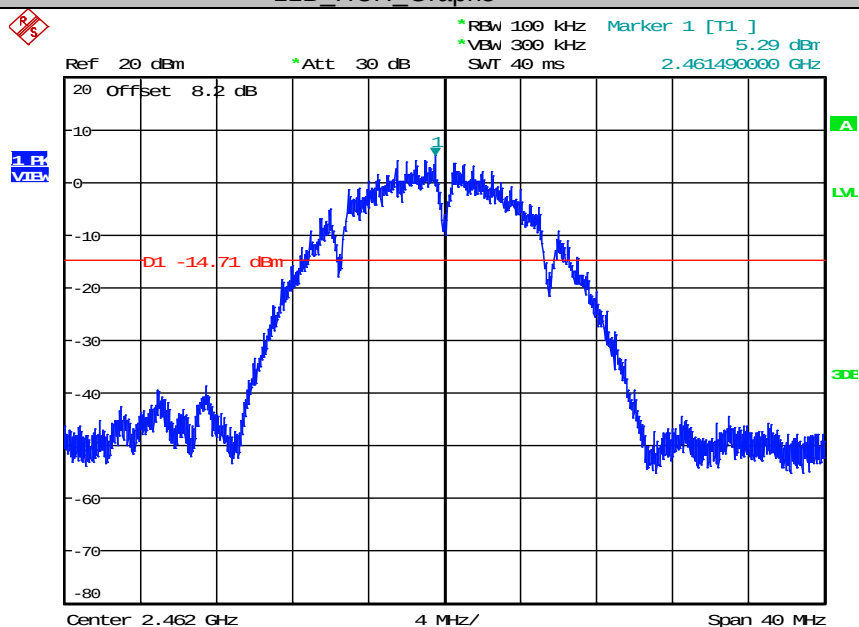
Puw/11B/MCH



Date: 3.SEP.2019 10:24:43

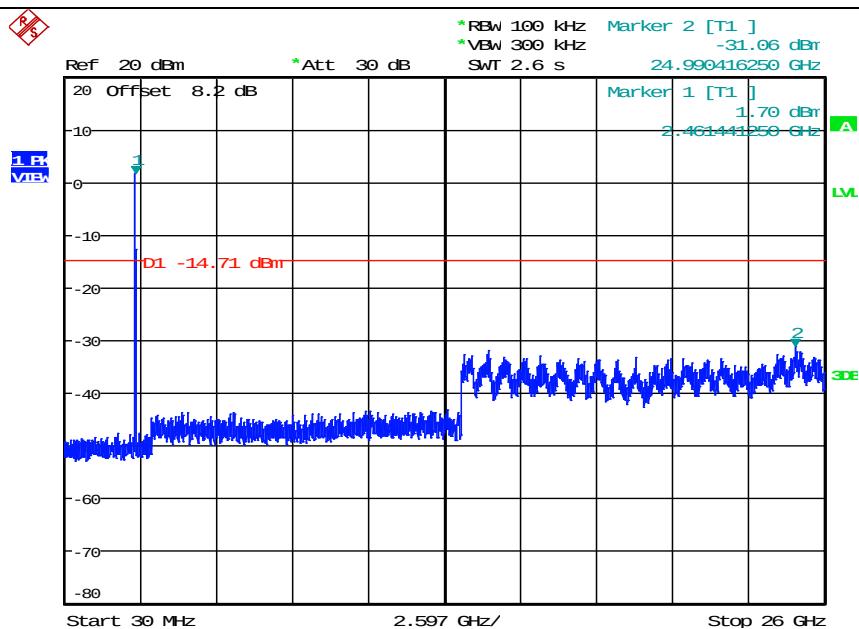
11B_HCH_Graphs

Pref/11B/HCH



Date: 3.SEP.2019 10:26:33

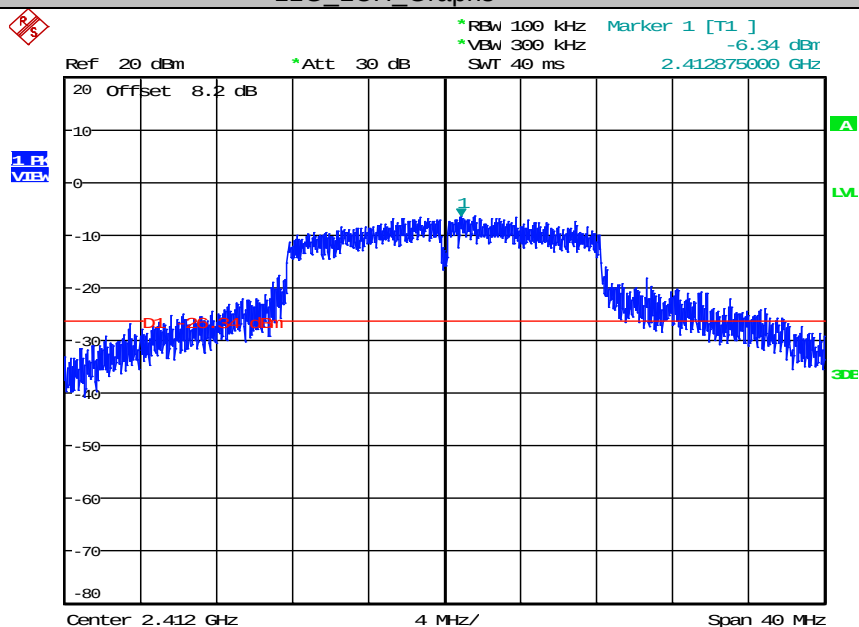
Puw/11B/HCH



Date: 3.SEP.2019 10:26:54

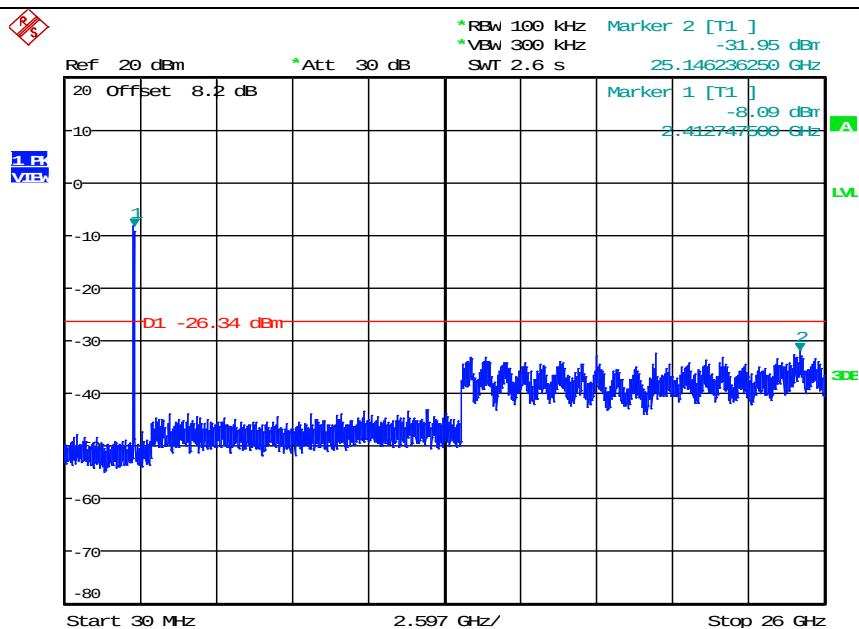
11G_LCH_Graphs

Pref/11G/LCH



Date: 5.SEP.2019 10:37:31

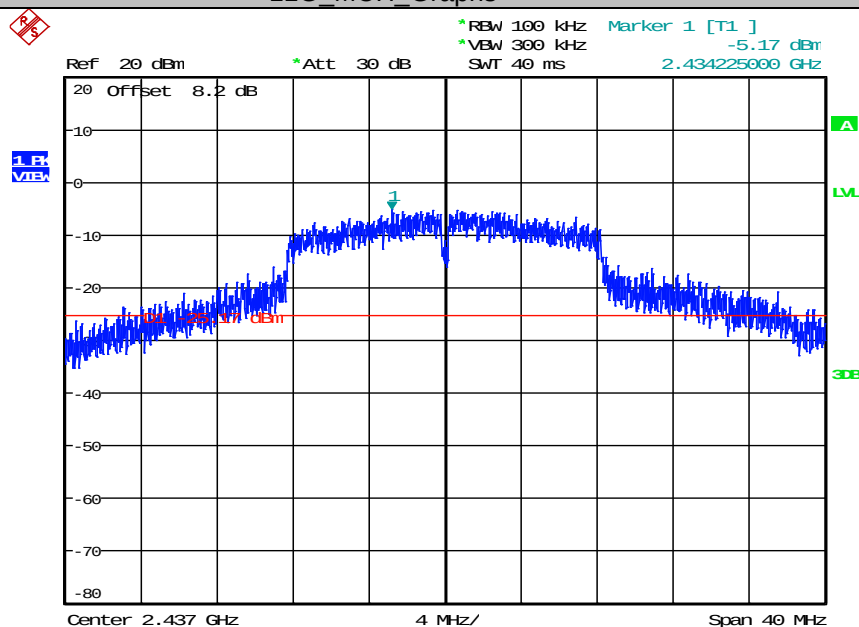
Puw/11G/LCH



Date: 5.SEP.2019 10:37:45

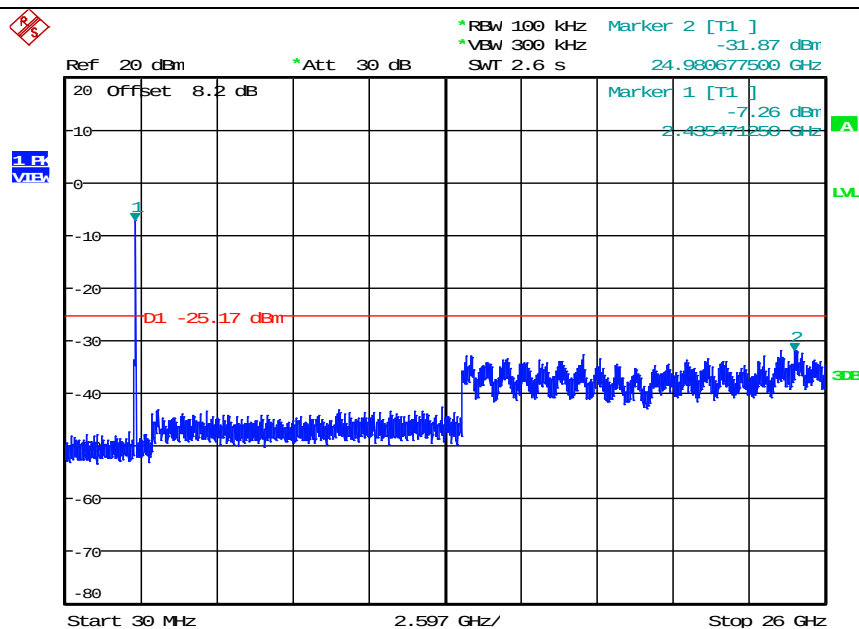
11G_MCH_Graphs

Pref/11G/MCH



Date: 5.SEP.2019 10:41:23

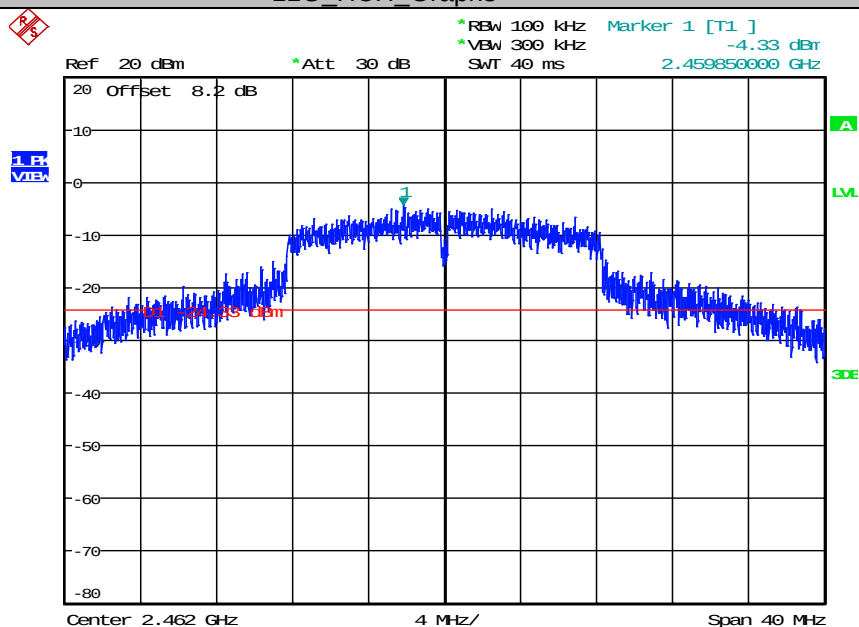
Puw/11G/MCH



Date: 5.SEP.2019 10:41:43

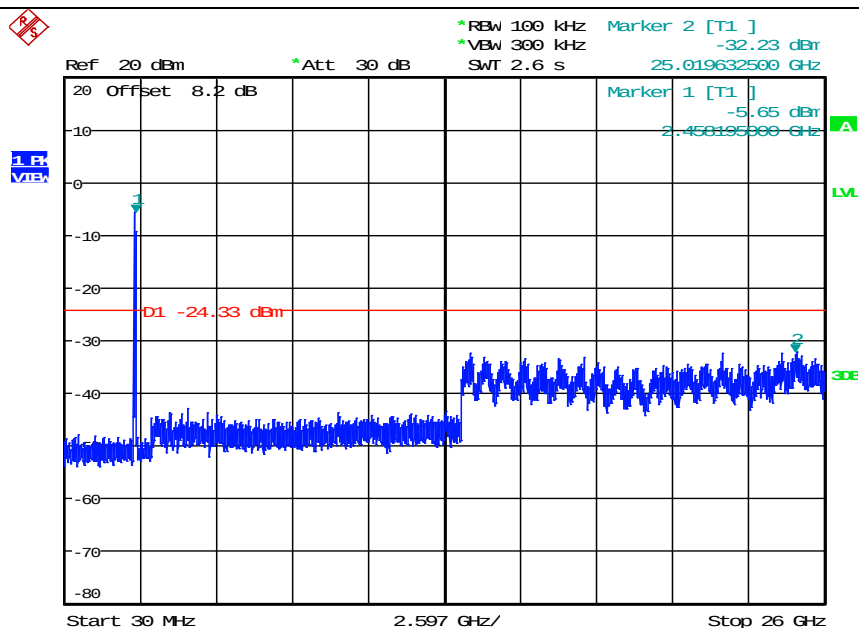
11G_HCH_Graphs

Pref/11G/HCH



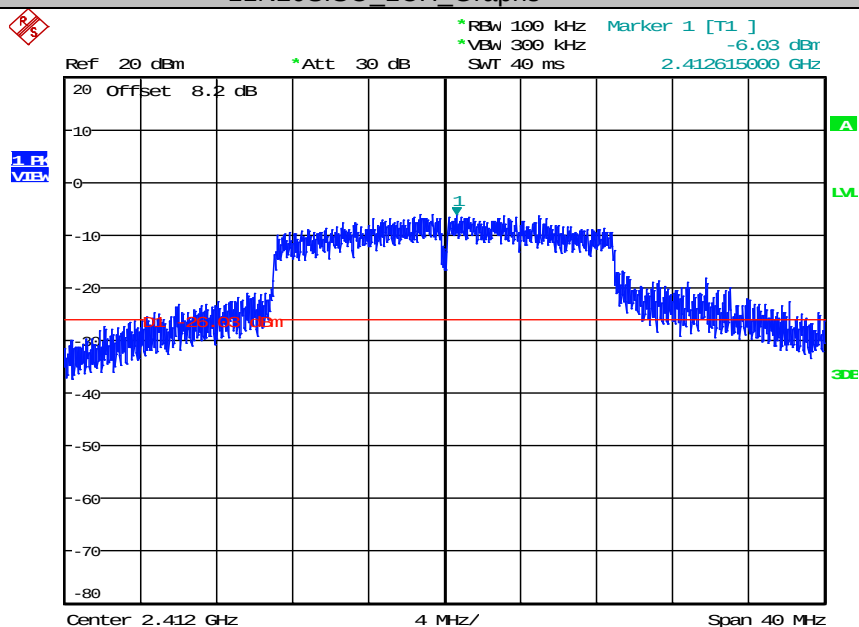
Date: 5.SEP.2019 10:44:05

Puw/11G/HCH

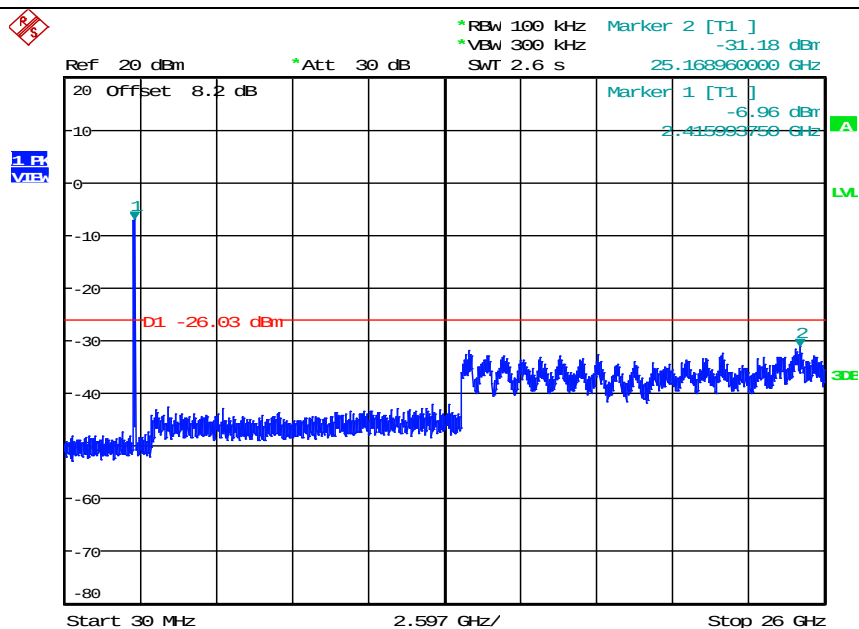


Date: 5.SEP.2019 10:44:19

11N20SISO LCH Graphs

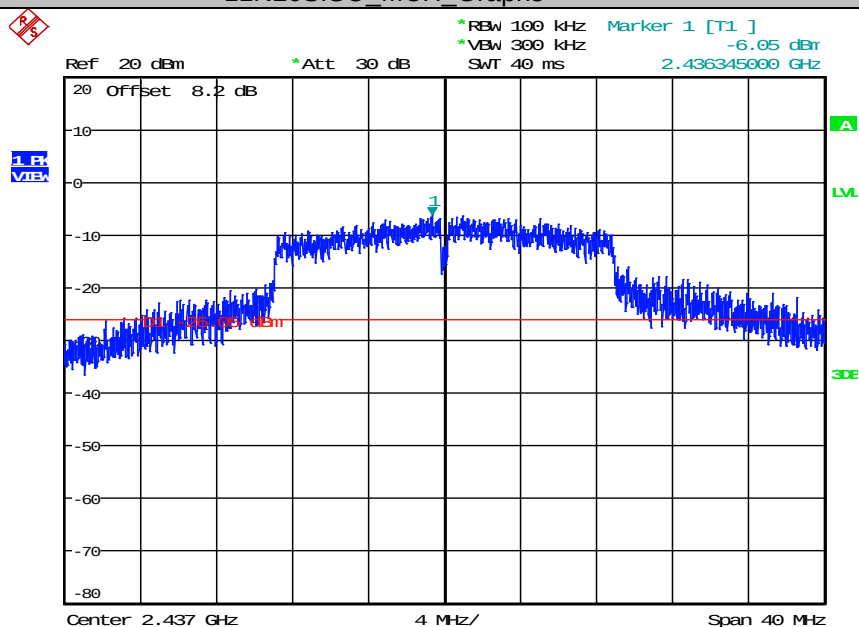
Pref/11N20SIS
O/LCH

Date: 5.SEP.2019 10:48:31

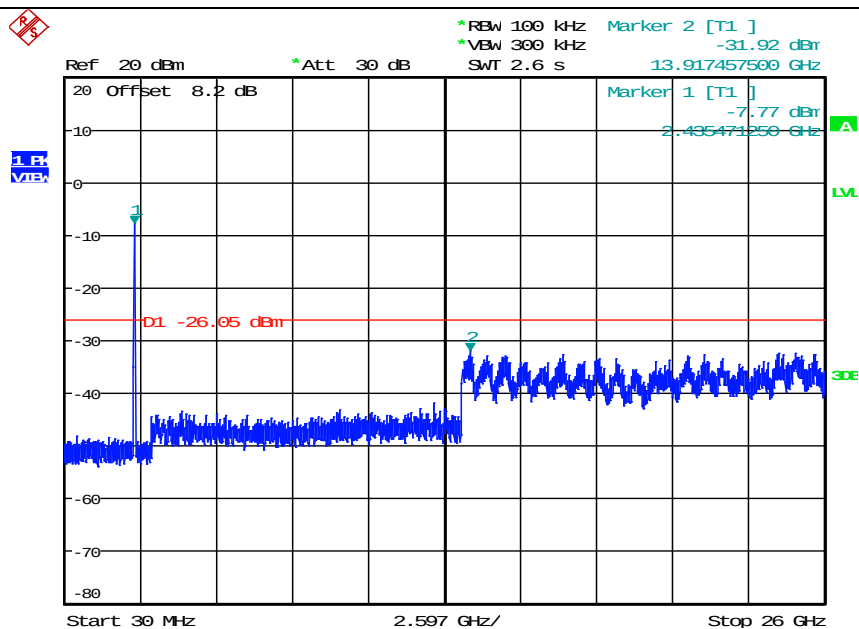
Puw/11N20
SISO/LCH

Date: 5.SEP.2019 10:49:03

11N20SISO_MCH_Graphs

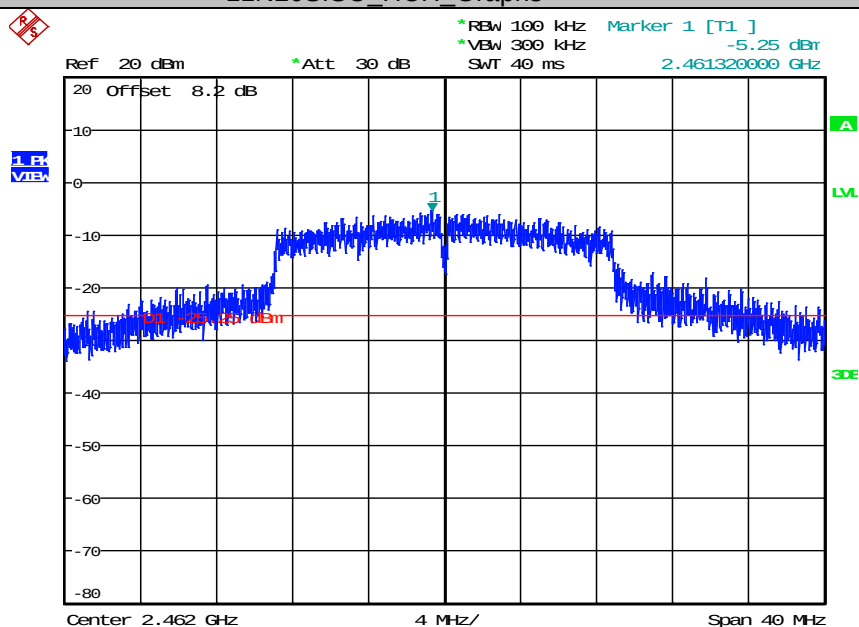
Pref/11N20
SISO/MCH

Date: 5.SEP.2019 11:10:39

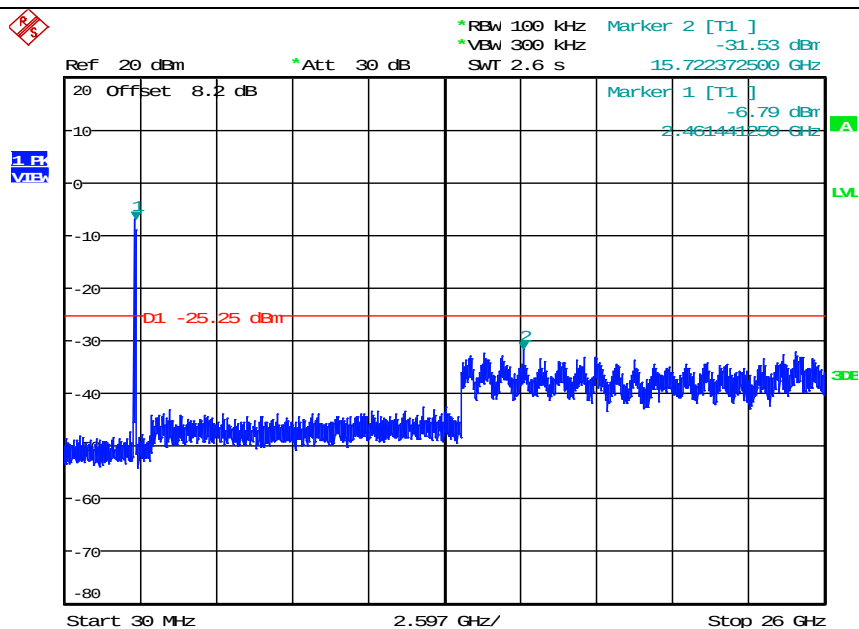
Puw/11N20
SISO/MCH

Date: 5.SEP.2019 11:10:56

11N20SISO_HCH_Graphs

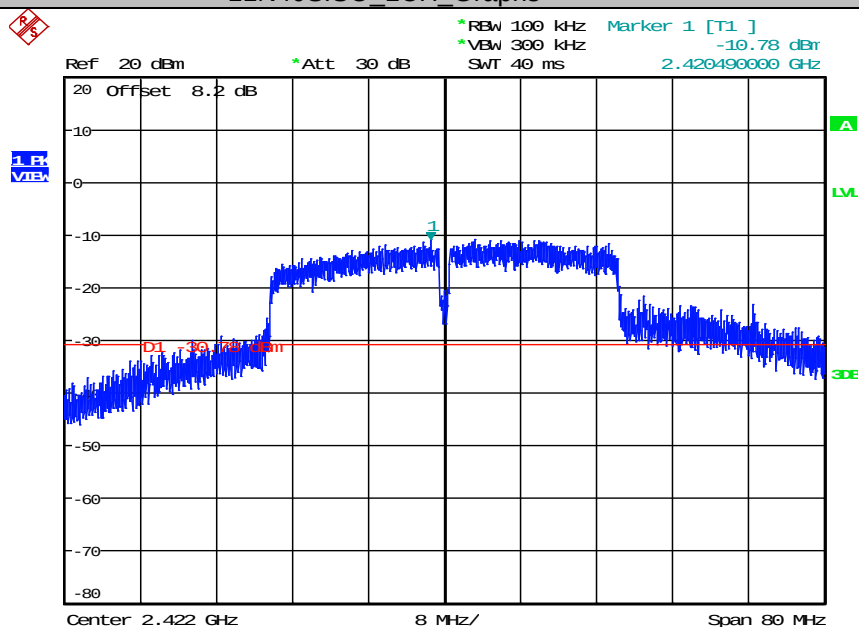
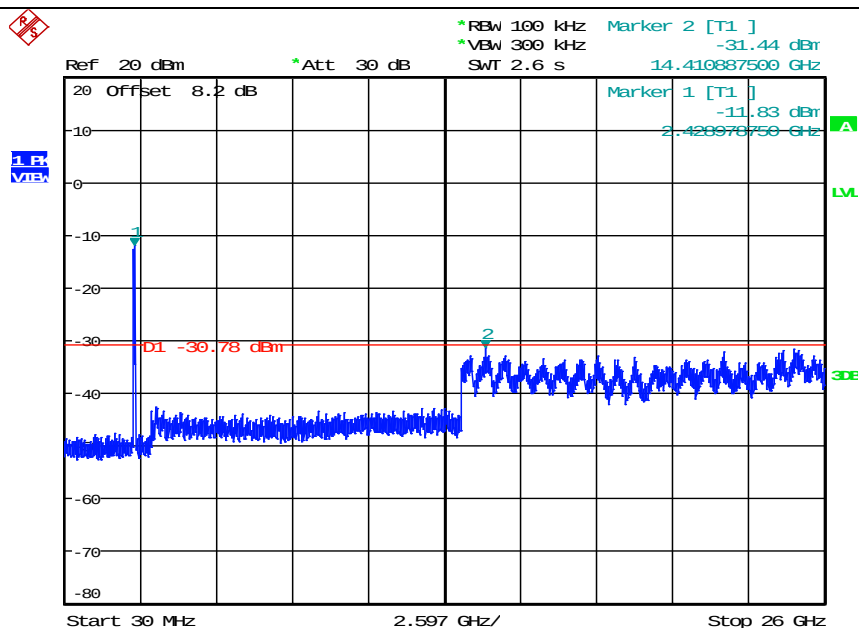
Pref/11N20
SISO/HCH

Date: 5.SEP.2019 11:12:52

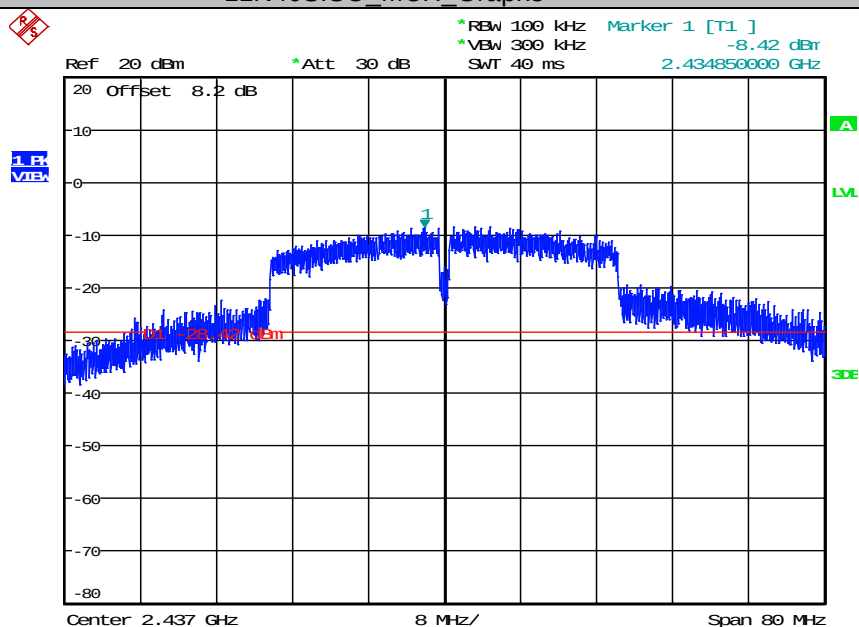
Puw/11N20
SISO/HCH

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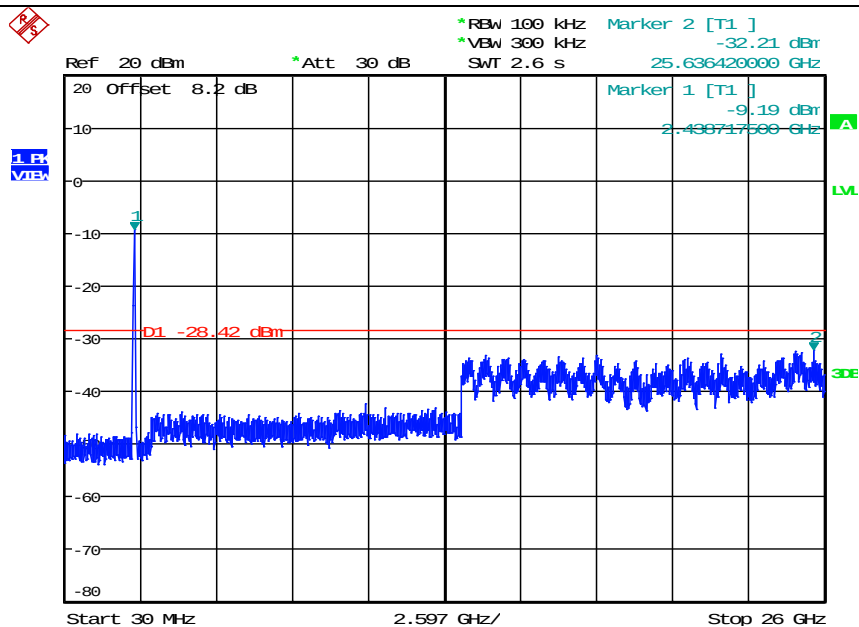
11N40SISO_LCH_Graphs

Pref/11N40
SISO/LCHPuw/11N40
SISO/LCH

11N40SISO_MCH_Graphs

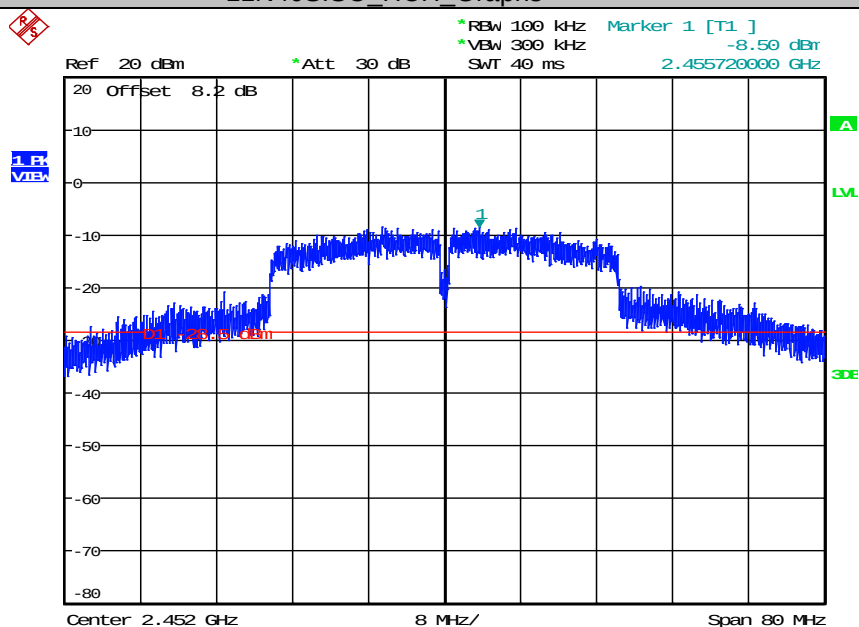
Pref/11N40
SISO/MCH

Date: 5.SEP.2019 11:21:05

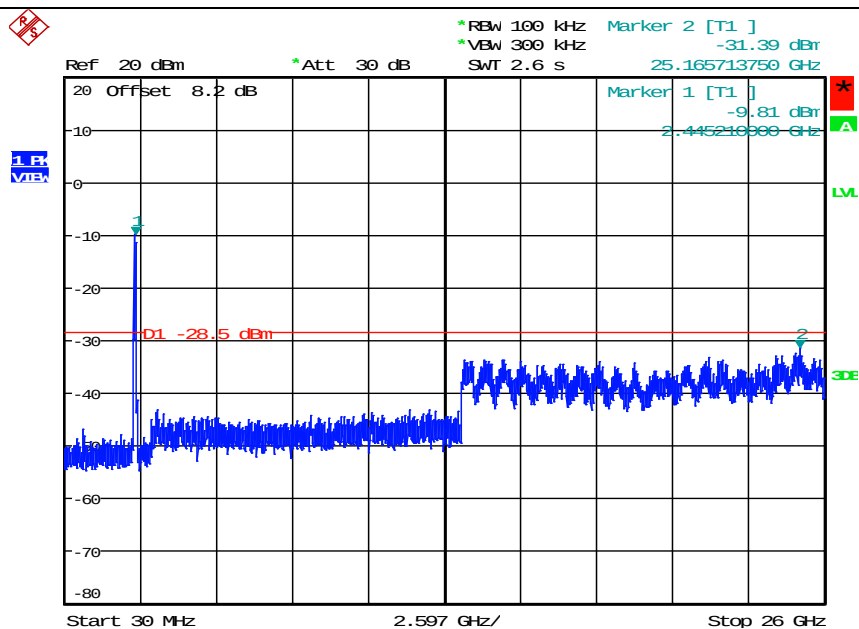
Puw/11N40
SISO/MCH

Date: 5.SEP.2019 11:21:23

11N40SISO_HCH_Graphs

Pref/11N40
SISO/HCH

Date: 5.SEP.2019 11:23:25

Puw/11N40
SISO/HCH

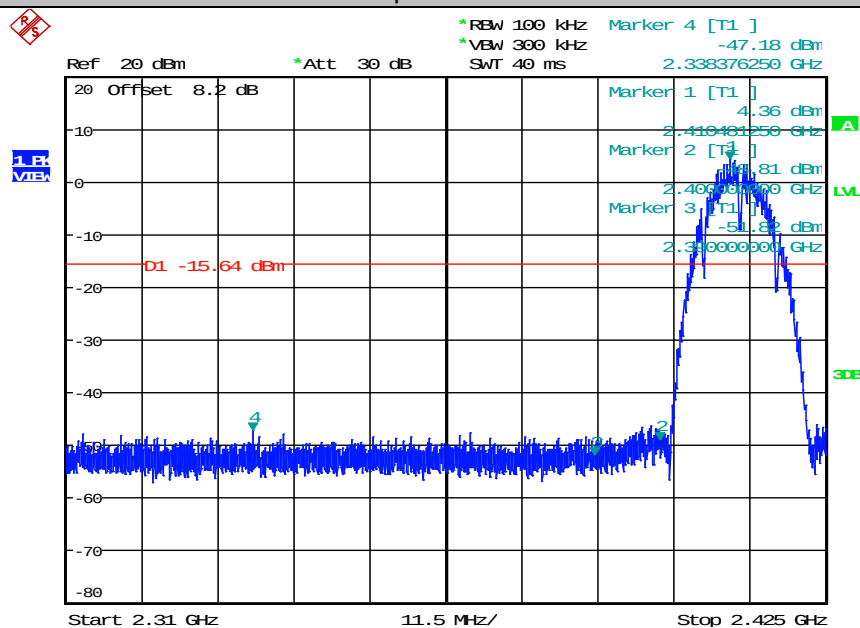
Date: 5.SEP.2019 11:23:49

C.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	4.360	-47.180	-15.64	PASS
	HCH	4.730	-47.635	-15.27	PASS
11G	LCH	-6.560	-36.080	-26.56	PASS
	HCH	-4.430	-27.604	-24.43	PASS
11N20SISO	LCH	-8.140	-39.633	-28.14	PASS
	HCH	-5.500	-25.947	-25.5	PASS
11N40SISO	LCH	-10.780	-34.940	-30.78	PASS
	HCH	-16.080	-36.765	-36.08	PASS

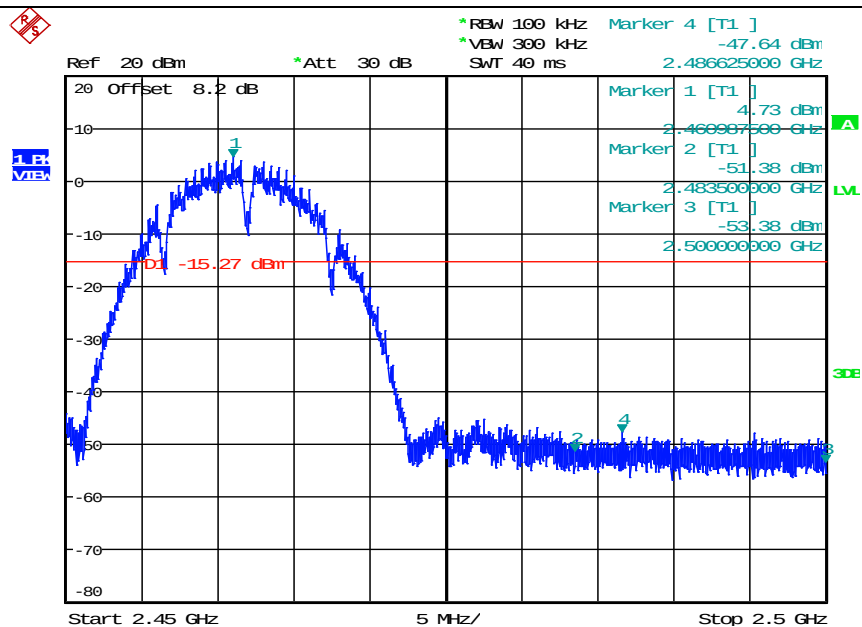
Test Graphs

11B/LCH



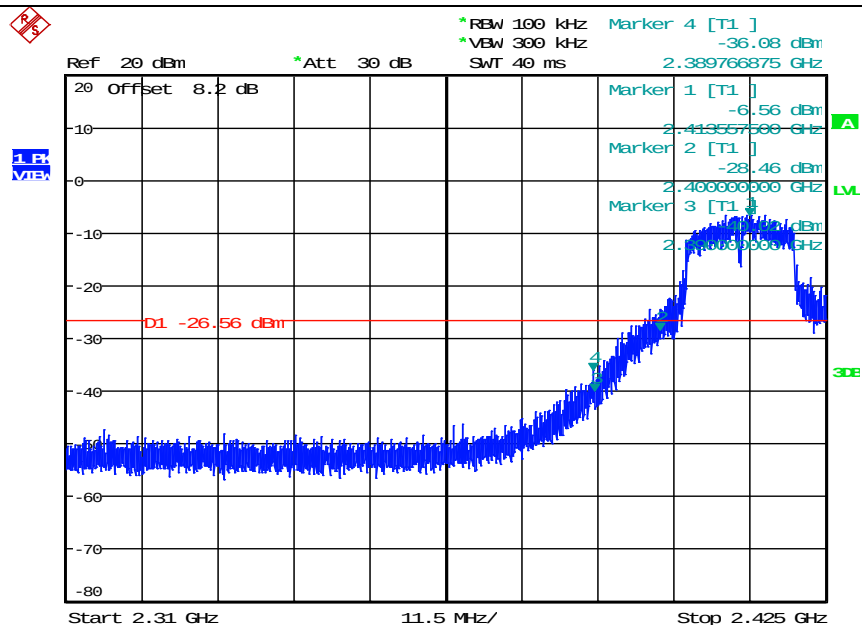
Date: 3.SEP.2019 10:19:42

11B/HCH



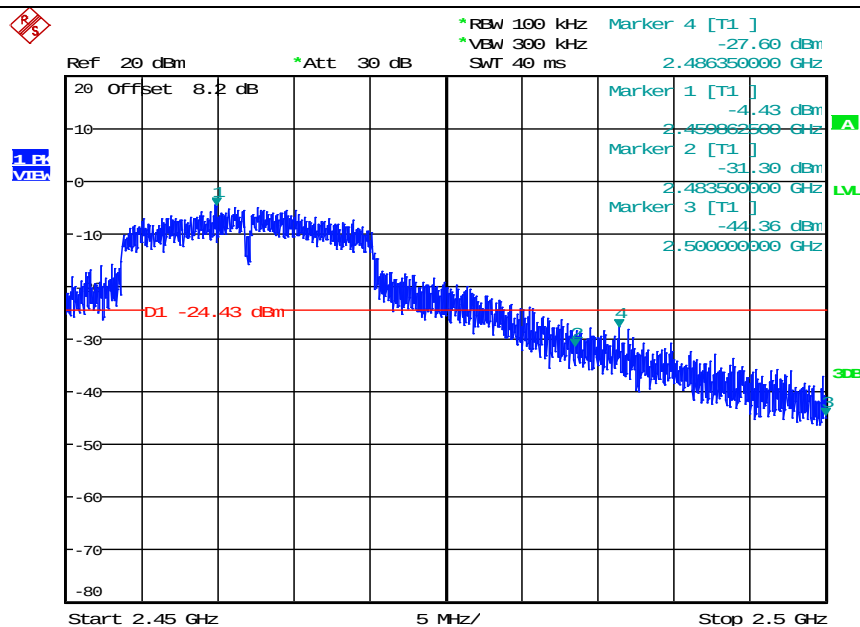
Date: 3.SEP.2019 10:26:20

11G/LCH



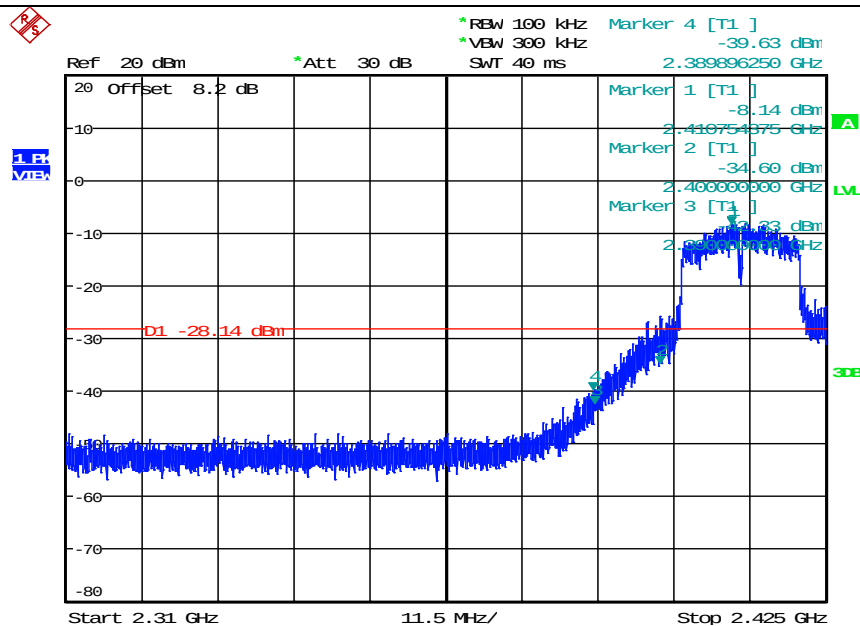
Date: 5.SEP.2019 10:36:48

11G/HCH



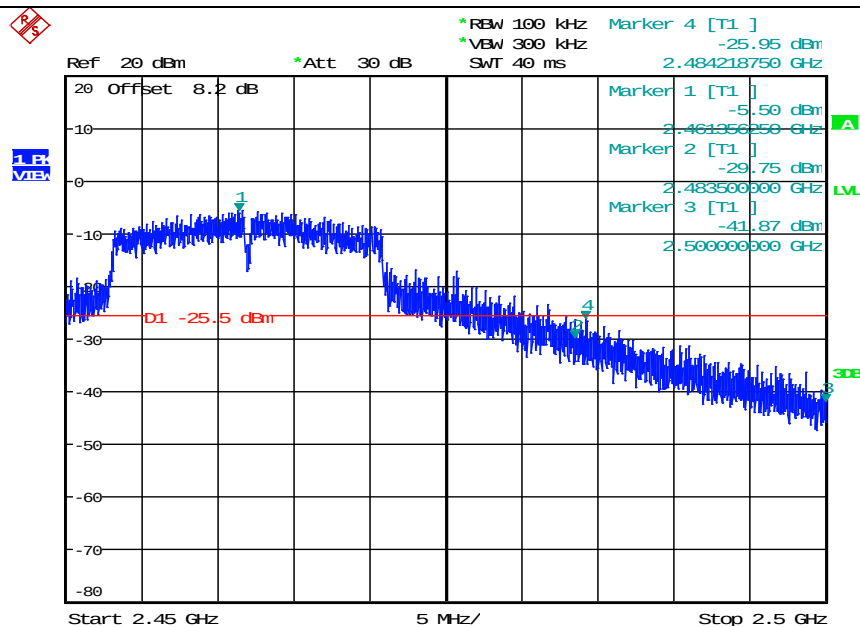
Date: 5.SEP.2019 10:43:51

11N20SISO/LCH



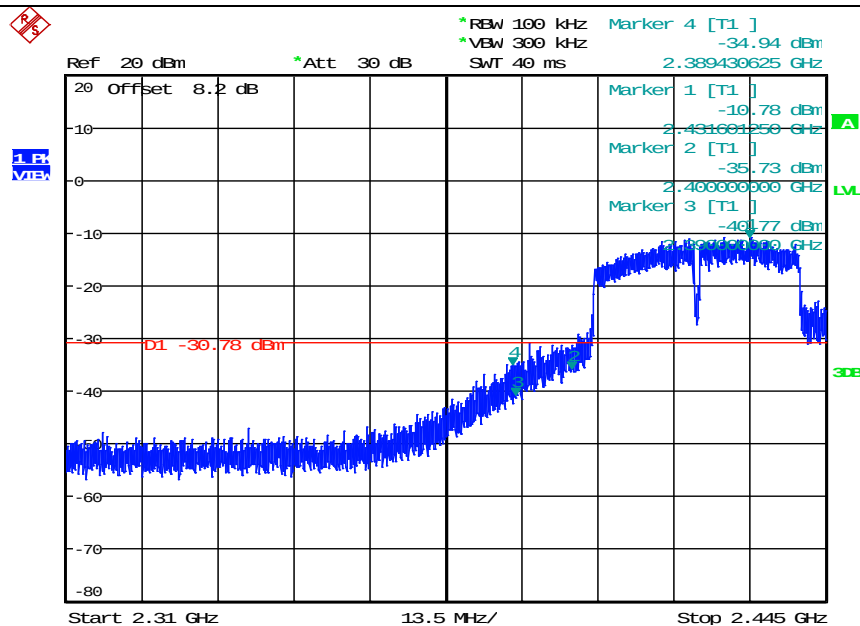
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11N20SISO/HCH



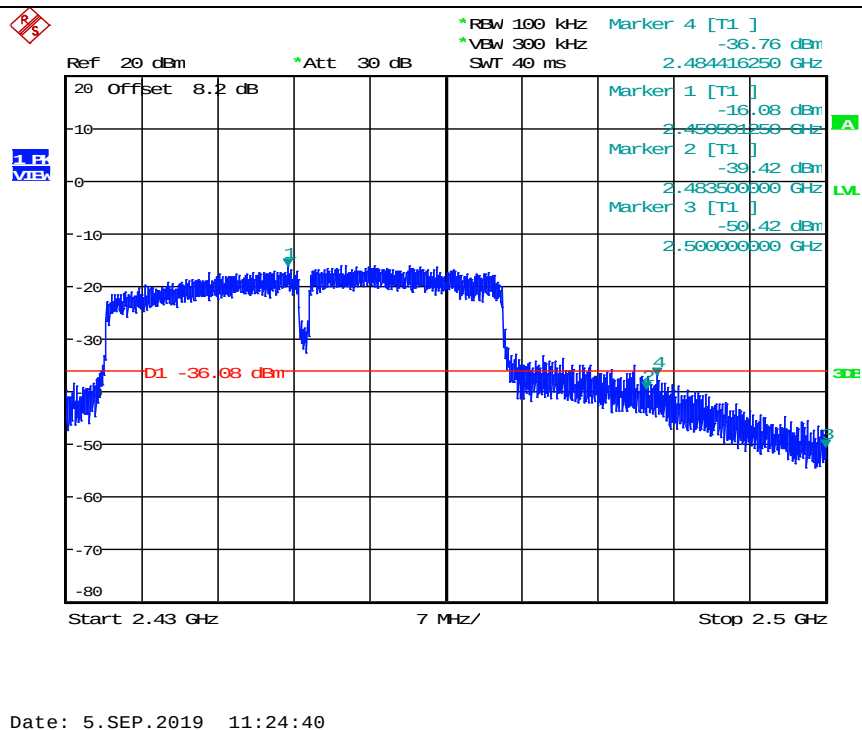
Date: 5.SEP.2019 11:12:36

11N40SISO/LCH



Date: 5.SEP.2019 11:17:37

11N40SISO/HCH

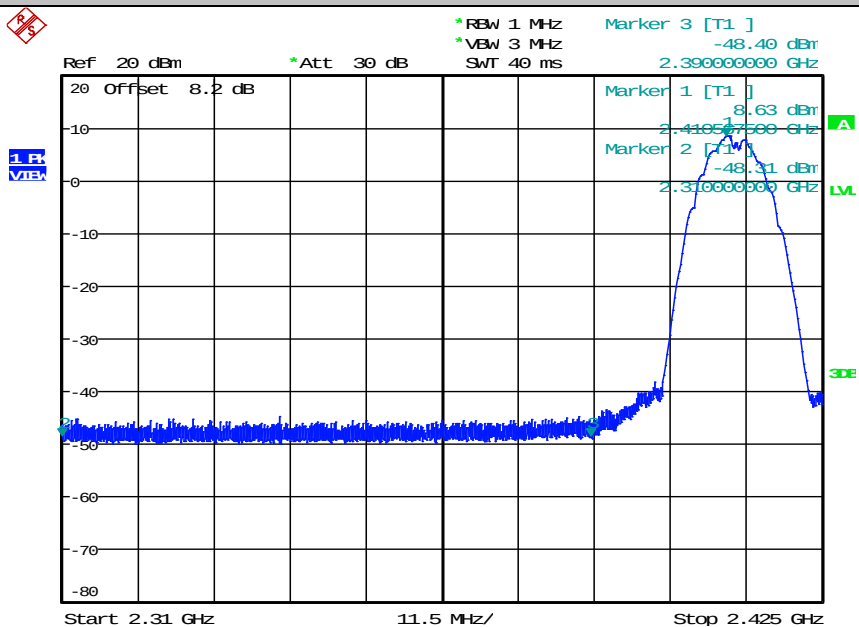


C.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant1	2310.0	-48.31	2.0	0	46.95	PEAK	74	PASS
	2412	Ant1	2310.0	-57.80	2.0	0	37.46	AV	54	PASS
	2412	Ant1	2390.0	-48.40	2.0	0	46.86	PEAK	74	PASS
	2412	Ant1	2390.0	-57.05	2.0	0	38.21	AV	54	PASS
	2462	Ant1	2483.5	-46.32	2.0	0	48.94	PEAK	74	PASS
	2462	Ant1	2483.5	-55.81	2.0	0	39.45	AV	54	PASS
	2462	Ant1	2500.0	-47.58	2.0	0	47.68	PEAK	74	PASS
	2462	Ant1	2500.0	-58.00	2.0	0	37.26	AV	54	PASS
11G	2412	Ant1	2310.0	-49.06	2.0	0	46.20	PEAK	74	PASS
	2412	Ant1	2310.0	-57.78	2.0	0	37.48	AV	54	PASS
	2412	Ant1	2390.0	-42.58	2.0	0	52.68	PEAK	74	PASS
	2412	Ant1	2390.0	-55.02	2.0	0	40.24	AV	54	PASS
	2462	Ant1	2483.5	-34.83	2.0	0	60.43	PEAK	74	PASS
	2462	Ant1	2483.5	-47.51	2.0	0	47.75	AV	54	PASS
	2462	Ant1	2500.0	-46.80	2.0	0	48.46	PEAK	74	PASS
	2462	Ant1	2500.0	-57.21	2.0	0	38.05	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-47.98	2.0	0	47.28	PEAK	74	PASS
	2412	Ant1	2310.0	-57.82	2.0	0	37.44	AV	54	PASS
	2412	Ant1	2390.0	-39.98	2.0	0	55.28	PEAK	74	PASS
	2412	Ant1	2390.0	-54.49	2.0	0	40.77	AV	54	PASS
	2462	Ant1	2483.5	-30.15	2.0	0	65.11	PEAK	74	PASS
	2462	Ant1	2483.5	-47.76	2.0	0	47.50	AV	54	PASS
	2462	Ant1	2500.0	-46.92	2.0	0	48.34	PEAK	74	PASS
	2462	Ant1	2500.0	-57.58	2.0	0	37.68	AV	54	PASS
11N40 SISO	2422	Ant1	2310.0	-47.79	2.0	0	47.47	PEAK	74	PASS
	2422	Ant1	2310.0	-57.82	2.0	0	37.44	AV	54	PASS

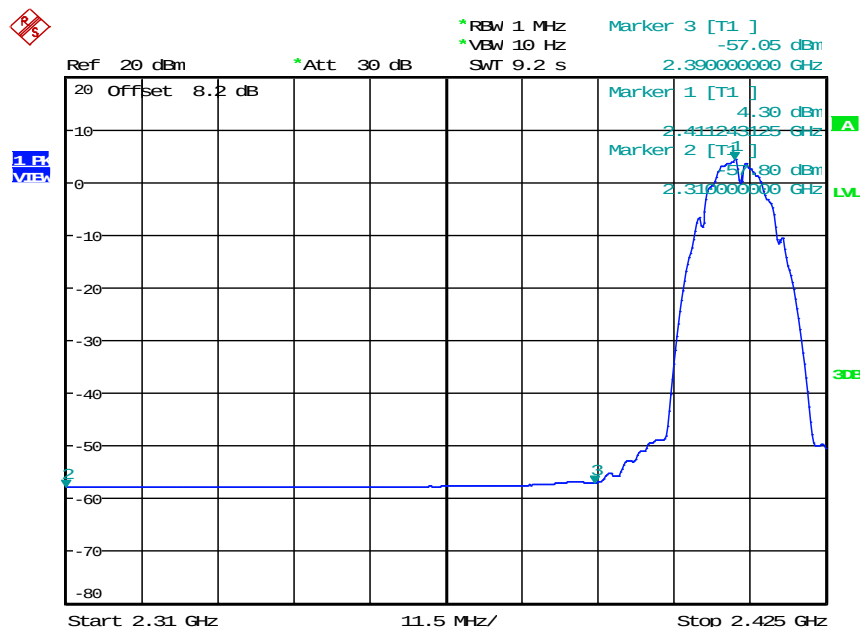
	2422	Ant1	2390.0	-41.98	2.0	0	53.28	PEAK	74	PASS
	2422	Ant1	2390.0	-53.51	2.0	0	41.75	AV	54	PASS
	2452	Ant1	2483.5	-30.91	2.0	0	64.35	PEAK	74	PASS
	2452	Ant1	2483.5	-45.16	2.0	0	50.10	AV	54	PASS
	2452	Ant1	2500.0	-42.19	2.0	0	53.07	PEAK	74	PASS
	2452	Ant1	2500.0	-55.10	2.0	0	40.16	AV	54	PASS

Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



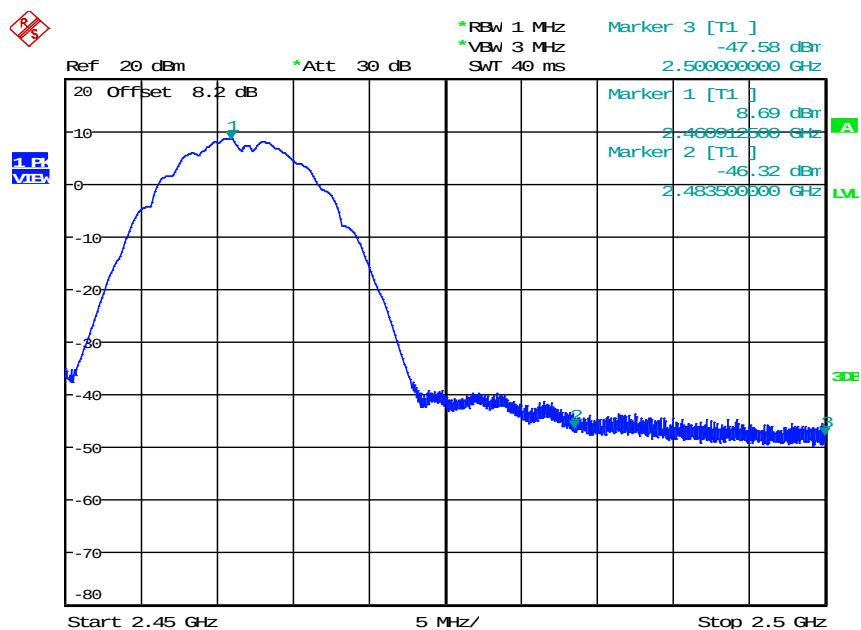
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Restrict-band band-edge measurements_11B_2412_Ant1_AV



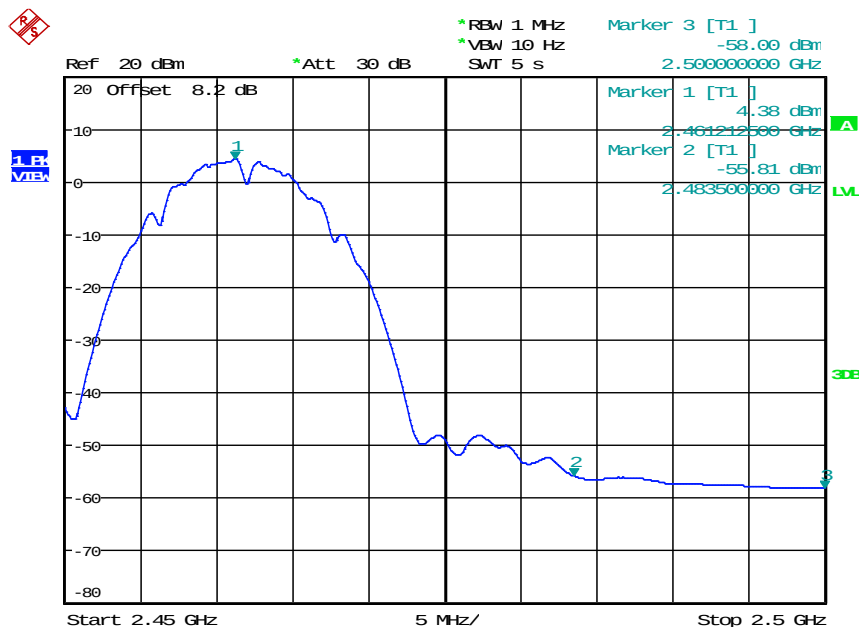
Date: 3.SEP.2019 10:21:14

Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



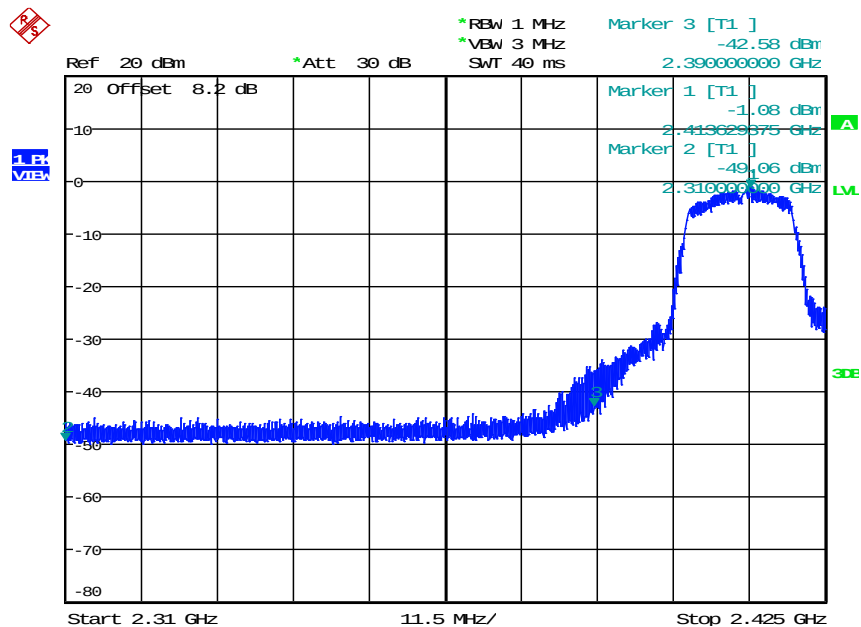
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Restrict-band band-edge measurements_11B_2462_Ant1_AV



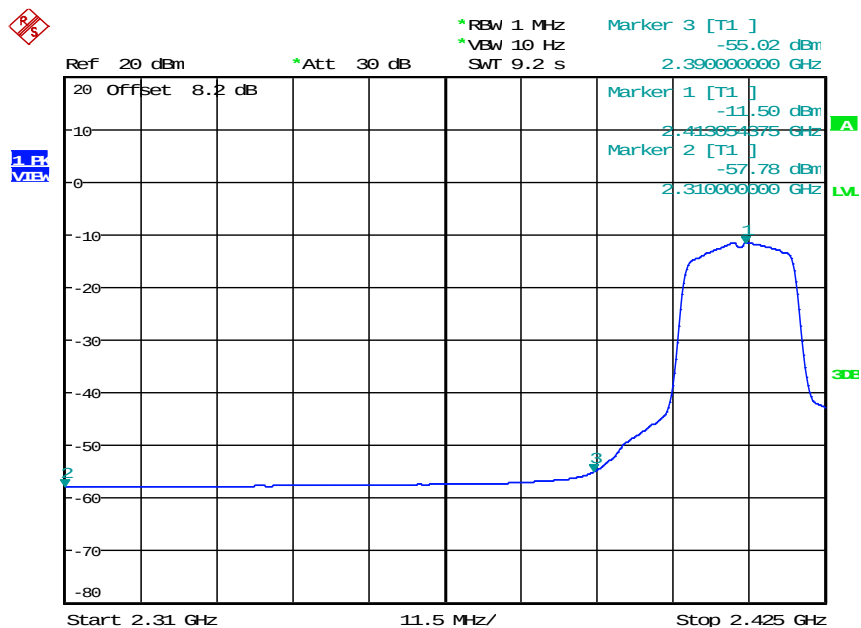
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Restrict-band band-edge measurements_11G_2412_Ant1_PEAK



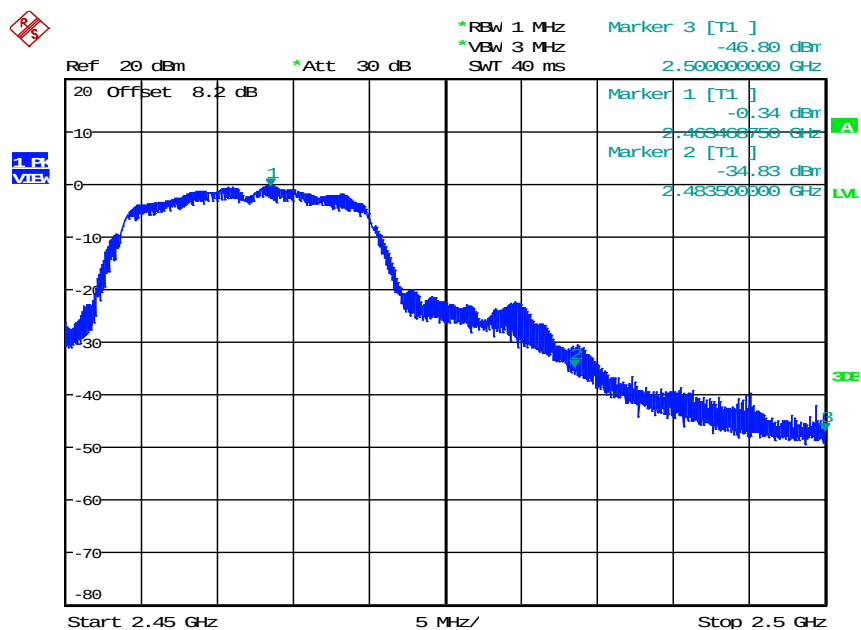
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Restrict-band band-edge measurements_11G_2412_Ant1_AV



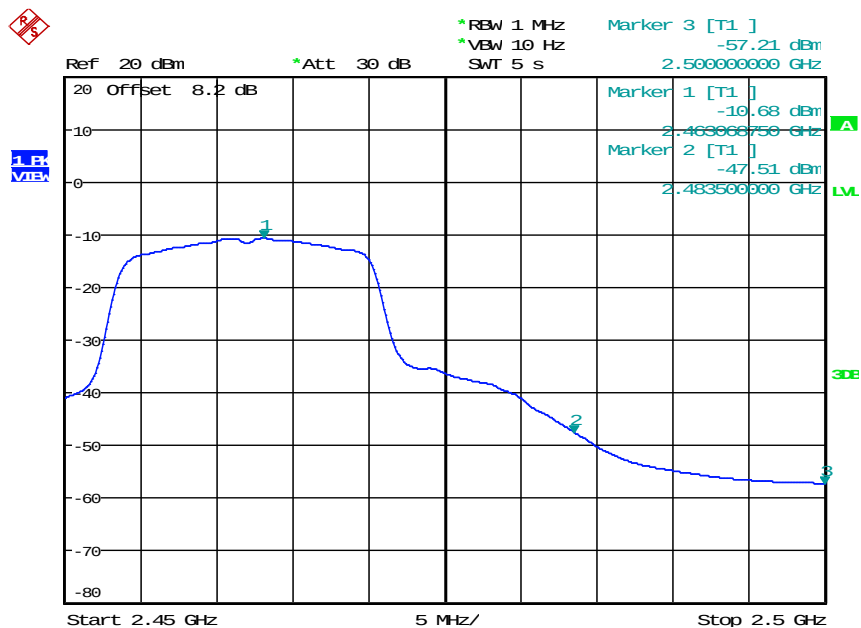
Date: 5.SEP.2019 10:39:41

Restrict-band band-edge measurements_11G_2462_Ant1_PEAK



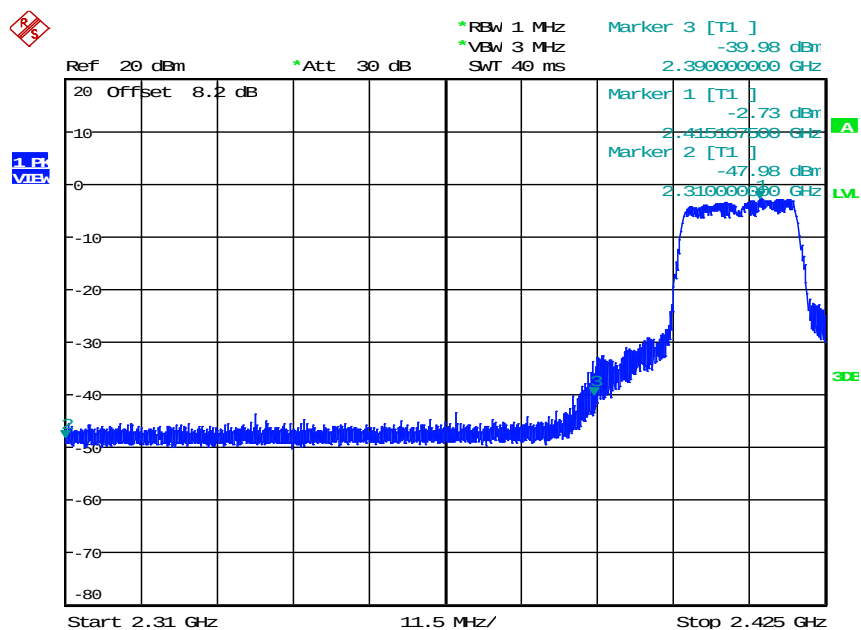
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Restrict-band band-edge measurements_11G_2462_Ant1_AV



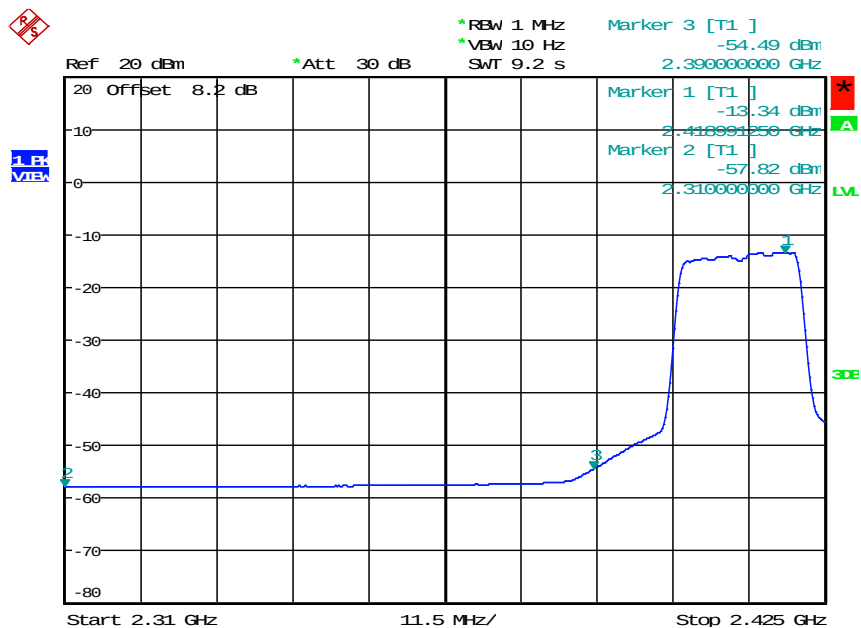
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Restrict-band band-edge measurements_11N20SISO_2412_Ant1_PEAK



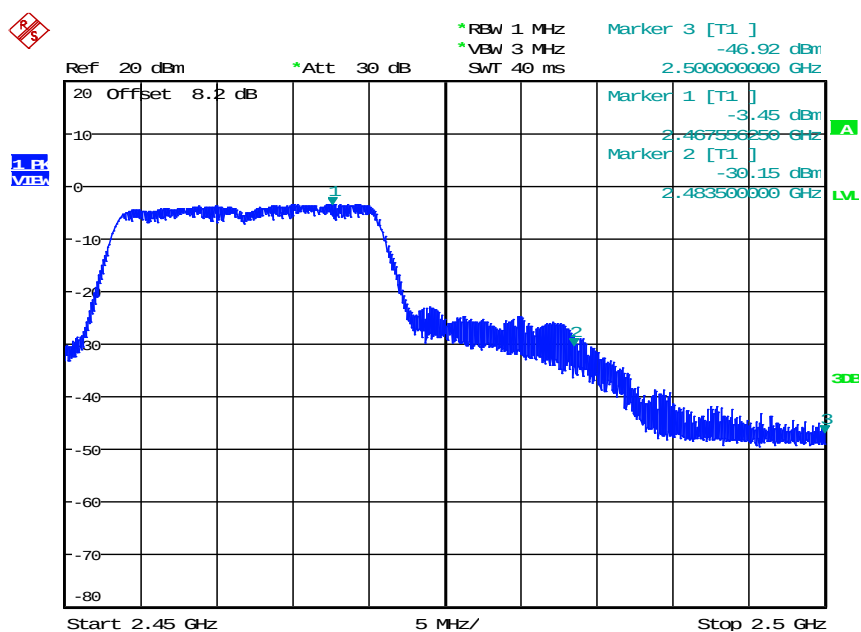
Date: 5.SEP.2019 10:49:36

Restrict-band band-edge measurements_11N20SISO_2412_Ant1_AV



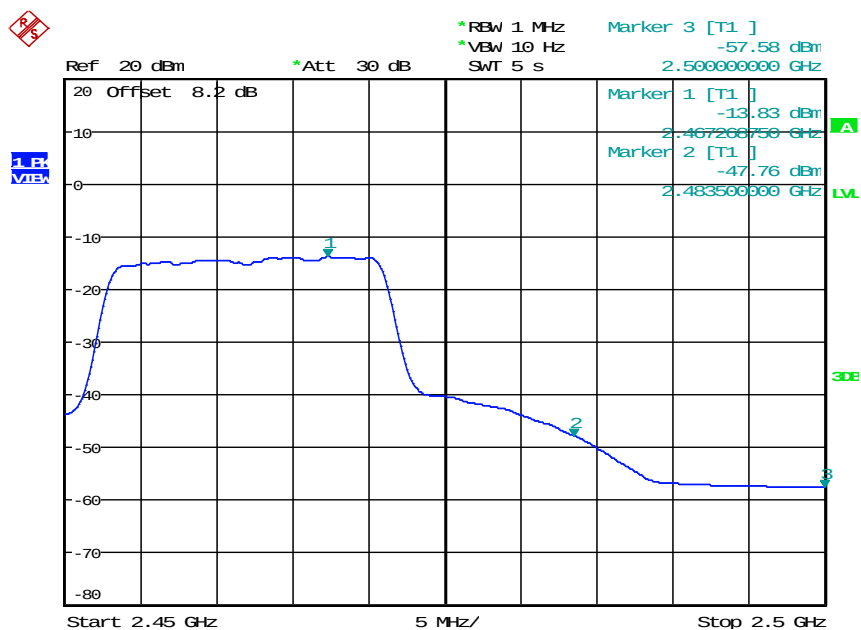
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Restrict-band band-edge measurements 11N20SISO 2462 Ant1 PEAK



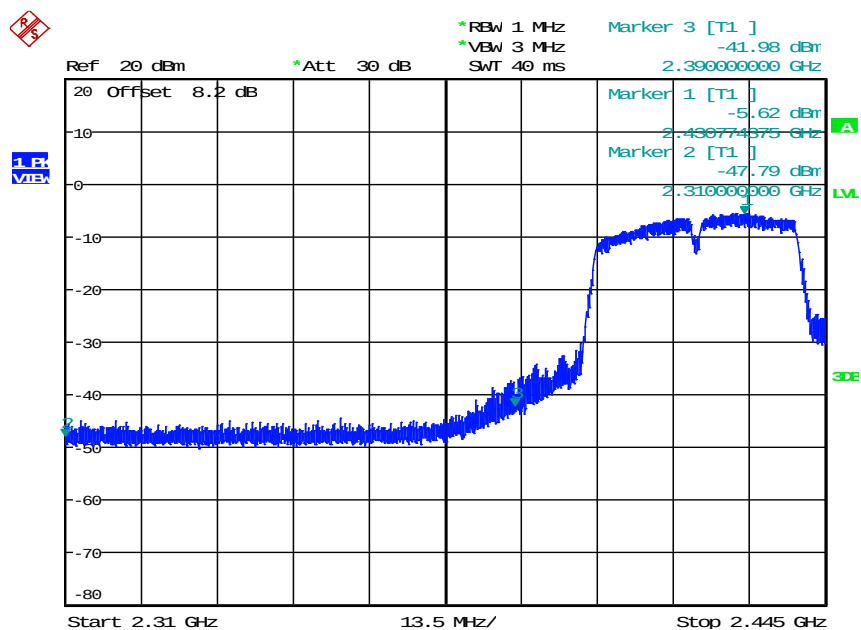
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Restrict-band band-edge measurements_11N20SISO_2462_Ant1_AV



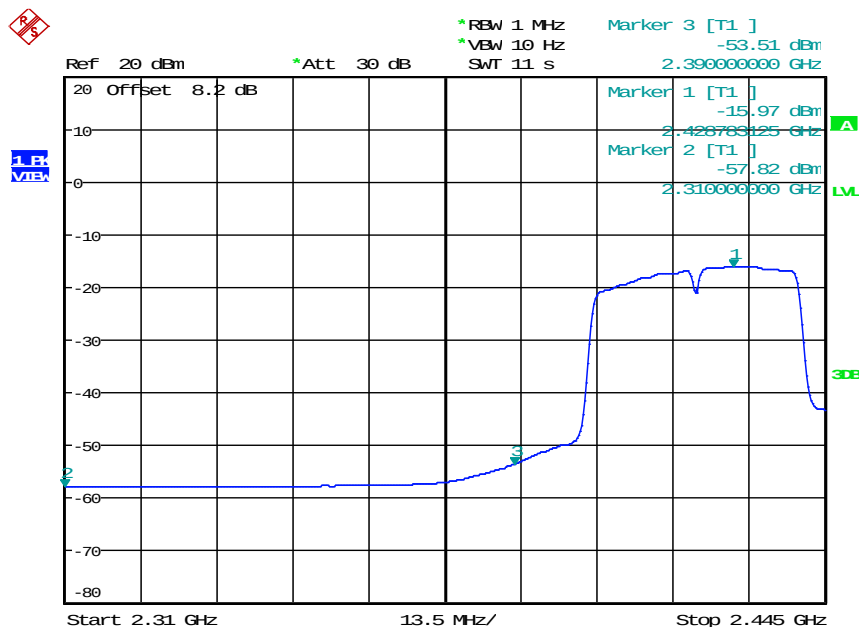
Date: 5.SEP.2019 11:14:19

Restrict-band band-edge measurements_11N40SISO_2422_Ant1_PEAK



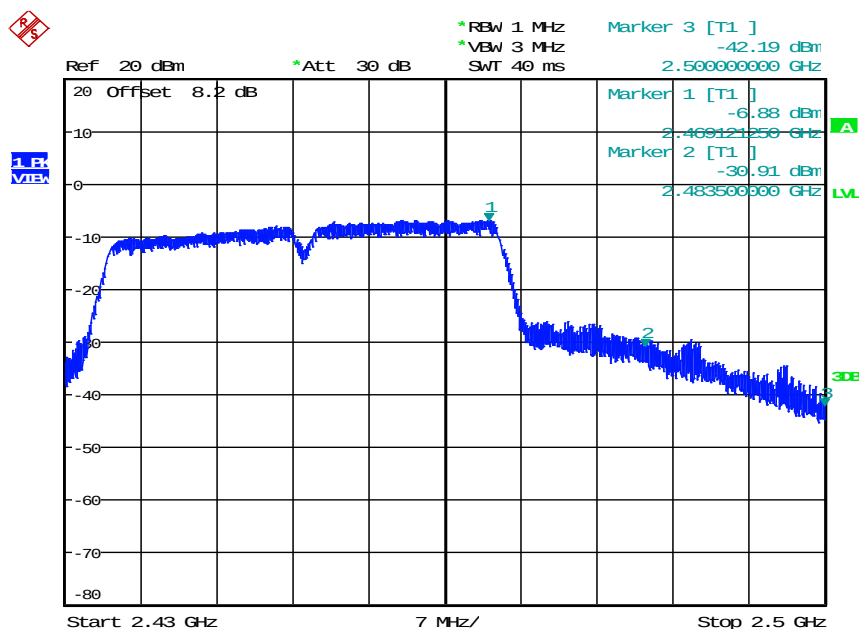
Date: 5.SEP.2019 11:19:06

Restrict-band band-edge measurements_11N40SISO_2422_Ant1_AV



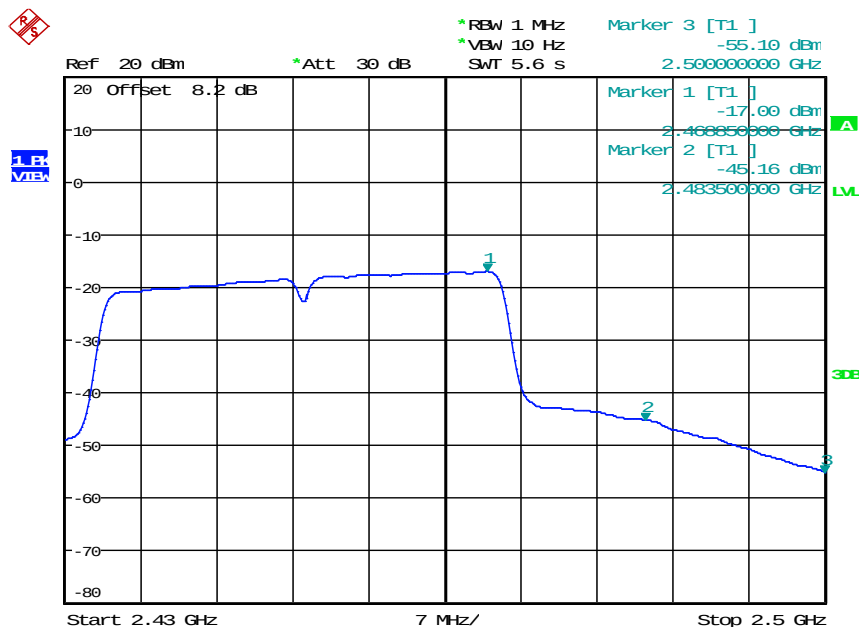
Date: 5.SEP.2019 11:19:30

Restrict-band band-edge measurements_11N40SISO_2452_Ant1_PEAK



Date: 5.SEP.2019 11:25:48

Restrict-band band-edge measurements_11N40SISO_2452_Ant1_AV



Date: 5.SEP.2019 11:26:08