

Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: IP Camera

Trade Mark: N/A

Test Model: Bullet 2S

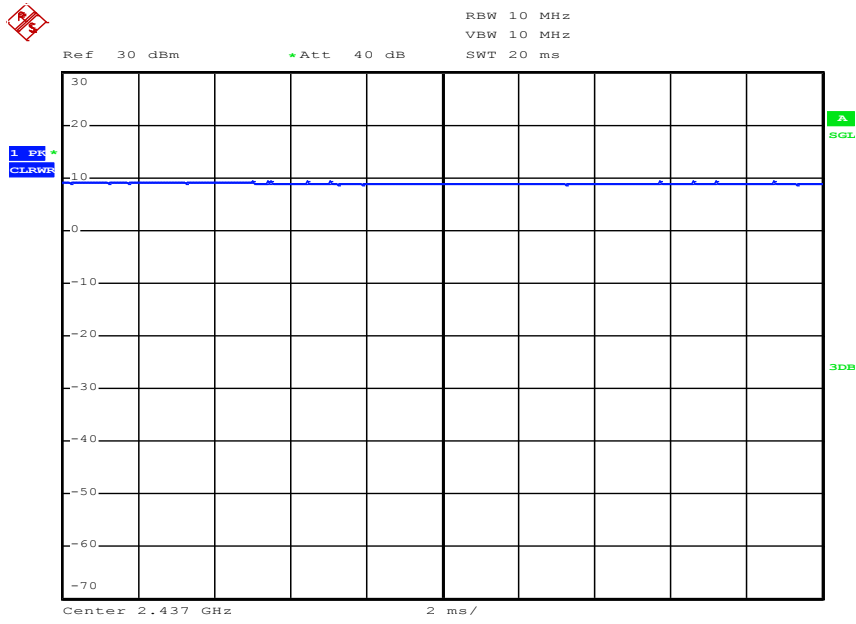
Environmental Conditions

Temperature:	24.6 ° C
Relative Humidity:	54.8%
ATM Pressure:	100.0 kPa
Test Engineer:	QUXIN
Supervised by:	Wang.Chuang

C.1 Duty Cycle

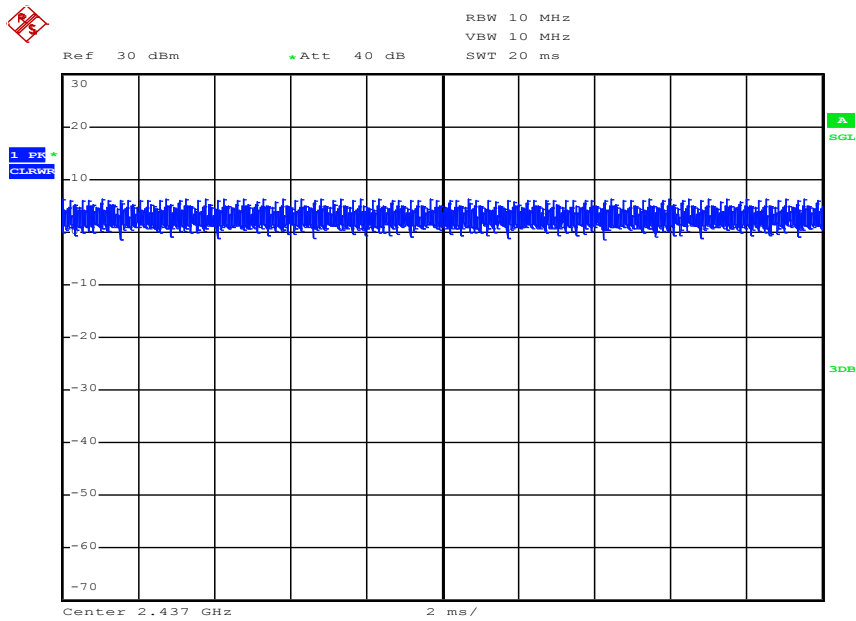
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20SISO	2437	Ant1	100	PASS
11N40SISO	2437	Ant1	100	PASS

Duty Cycle_11B_2437_Ant1



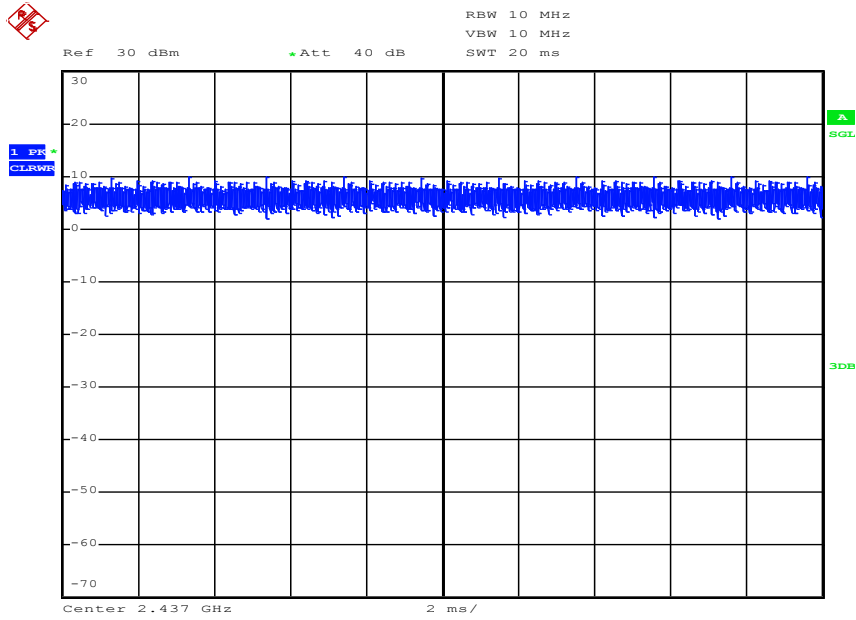
Date: 30.SEP.2019 15:18:45

Duty Cycle_11G_2437_Ant1



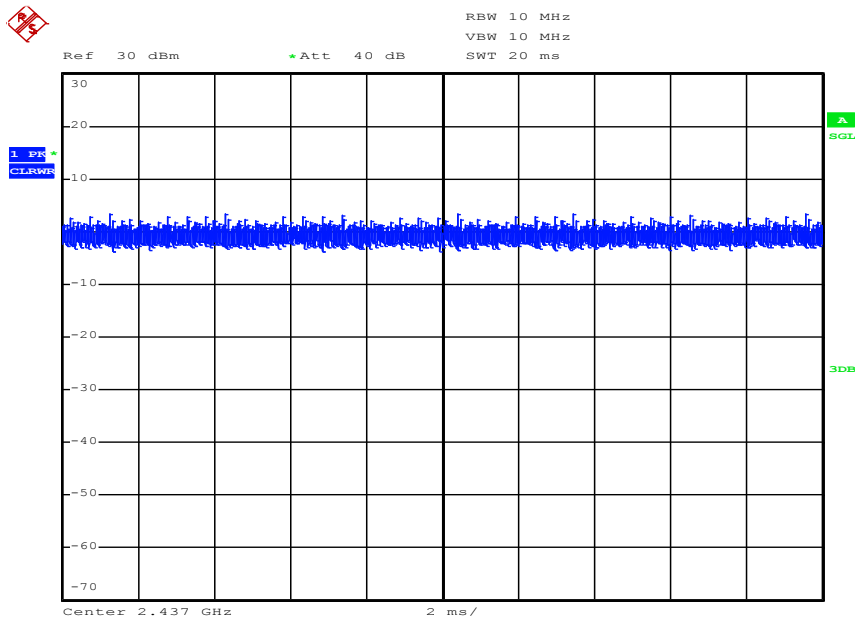
Date: 30.SEP.2019 15:19:20

Duty Cycle_11N20SISO_2437_Ant1



Date: 30.SEP.2019 15:17:07

Duty Cycle_11N40SISO_2437_Ant1



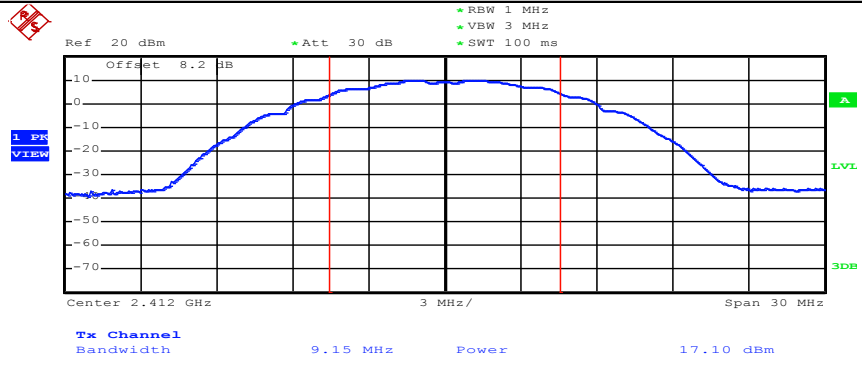
Date: 30.SEP.2019 15:17:53

C.2 Maximum Conducted Output Power

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	17.1	30	PASS
	MCH	18.22	30	PASS
	HCH	18.64	30	PASS
11G	LCH	15.35	30	PASS
	MCH	16.65	30	PASS
	HCH	17.17	30	PASS
11N20SISO	LCH	15.18	30	PASS
	MCH	16.56	30	PASS
	HCH	17.03	30	PASS
11N40SISO	LCH	15.66	30	PASS
	MCH	16.4	30	PASS
	HCH	17.09	30	PASS

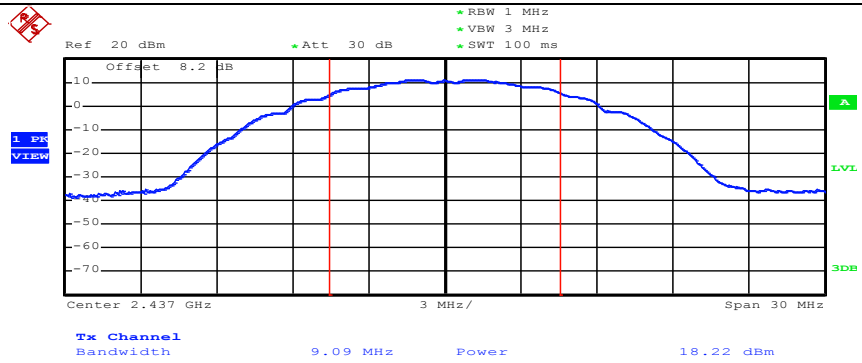
Test Graphs

11B/LCH



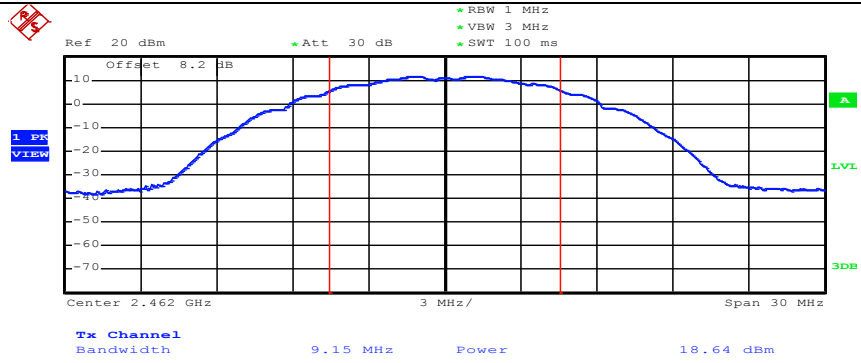
Date: 30.SEP.2019 14:43:21

11B/MCH



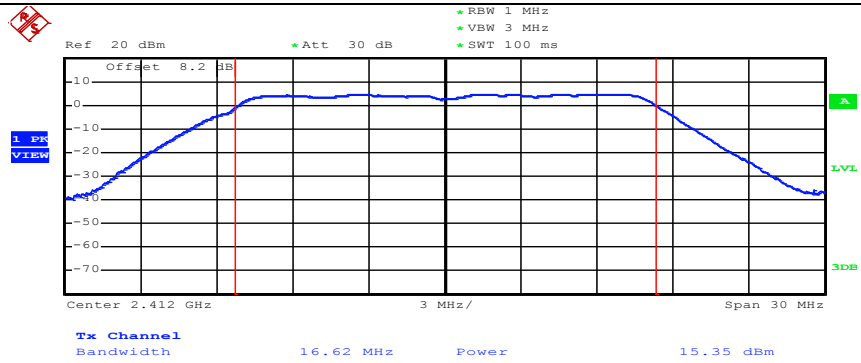
Date: 30.SEP.2019 14:46:20

11B/HCH



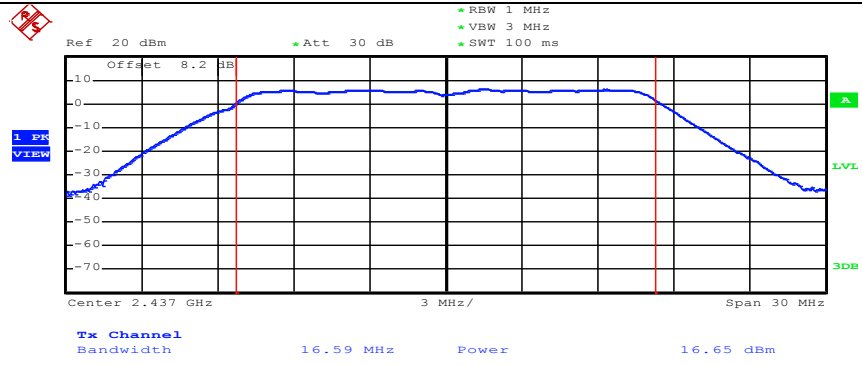
Date: 30.SEP.2019 14:48:23

11G/LCH



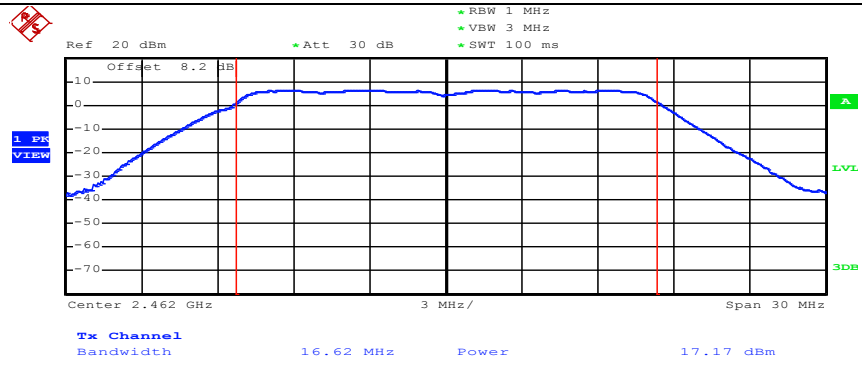
Date: 30.SEP.2019 14:51:16

11G/MCH



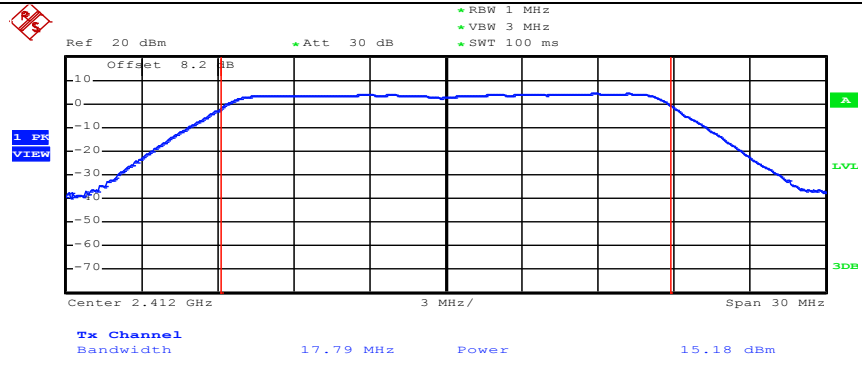
Date: 30.SEP.2019 14:54:19

11G/HCH



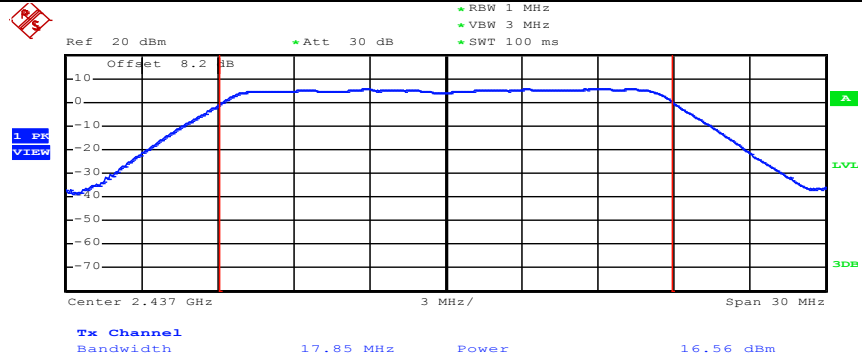
Date: 30.SEP.2019 14:56:38

11N20SISO/LCH



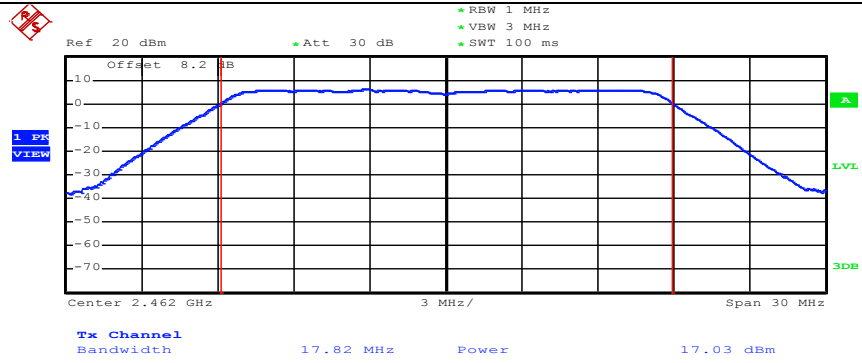
Date: 30.SEP.2019 15:00:21

11N20SISO/MCH



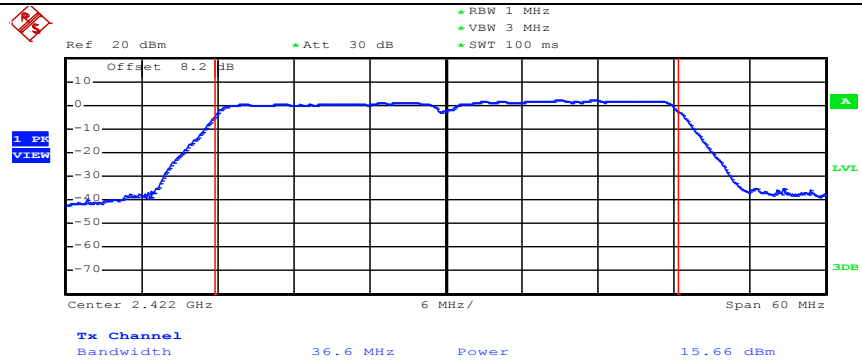
Date: 30.SEP.2019 15:03:07

11N20SISO/HCH



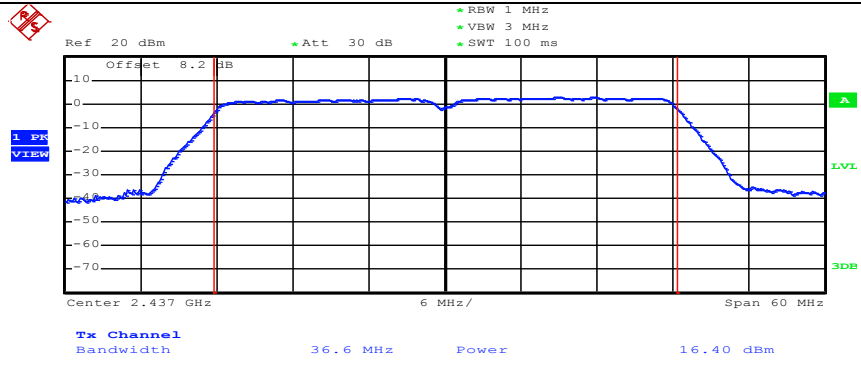
Date: 30.SEP.2019 15:21:59

11N40SISO/LCH



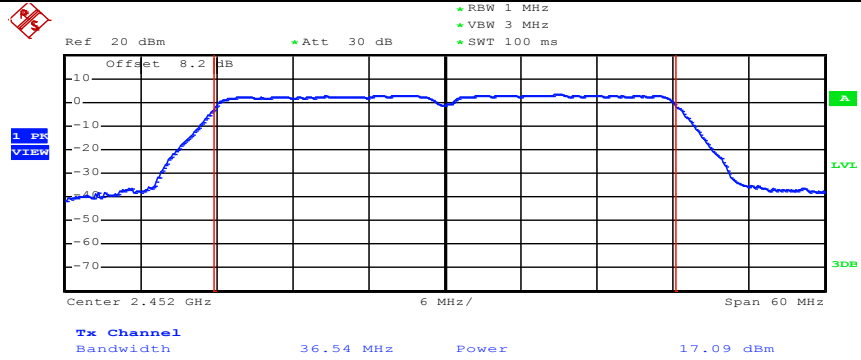
Date: 30.SEP.2019 15:07:40

11N40SISO/MCH



Date: 30.SEP.2019 15:10:29

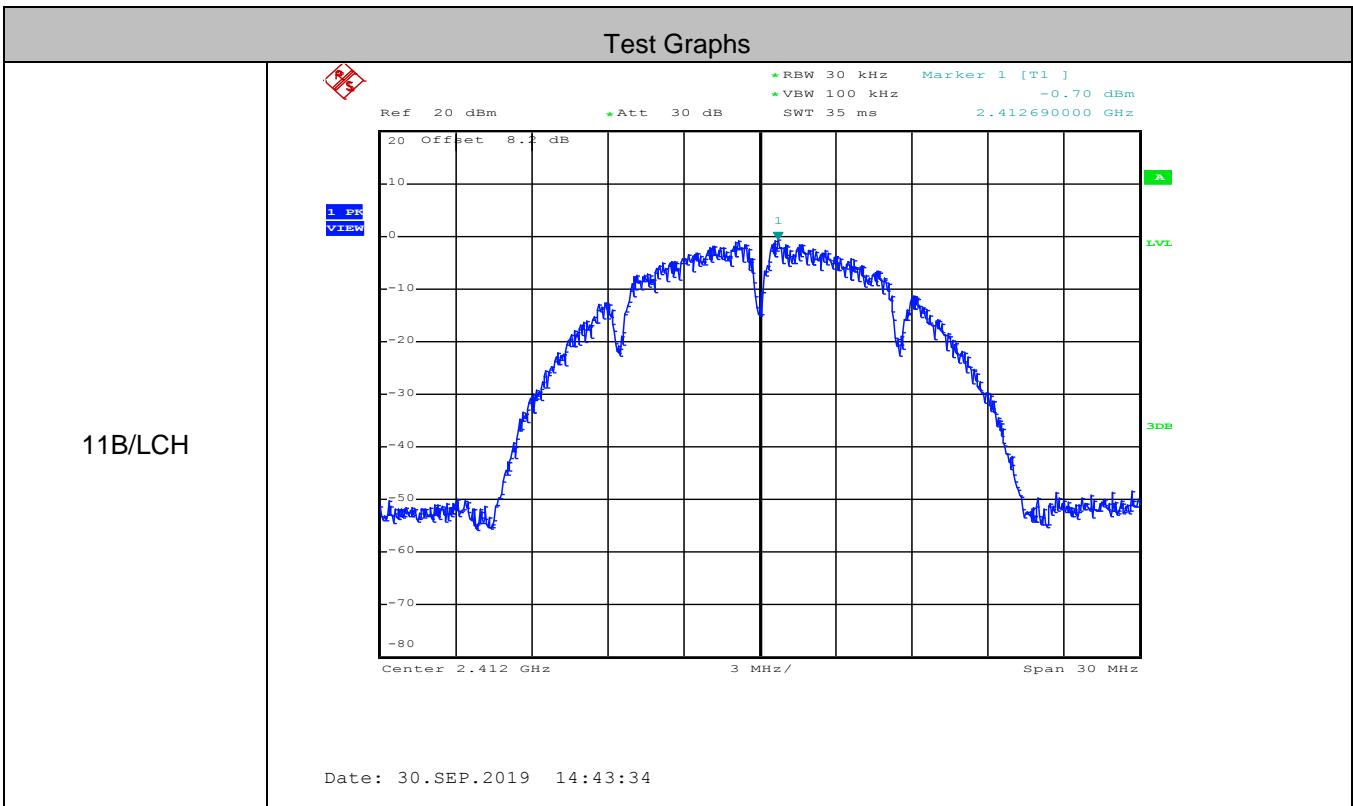
11N40SISO/HCH



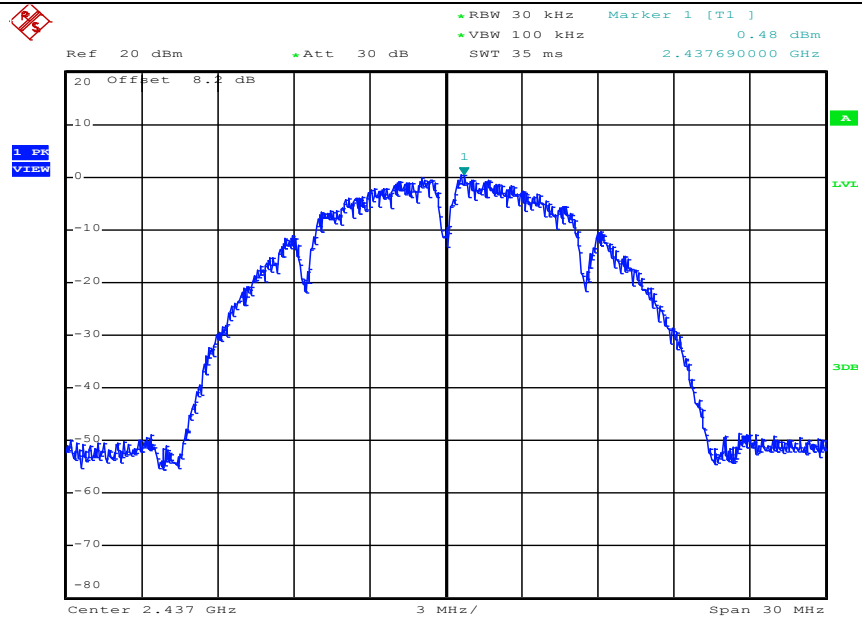
Date: 30.SEP.2019 15:12:59

C.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-0.700	8	PASS
	MCH	0.480	8	PASS
	HCH	0.950	8	PASS
11G	LCH	-9.730	8	PASS
	MCH	-8.650	8	PASS
	HCH	-8.110	8	PASS
11N20SISO	LCH	-10.040	8	PASS
	MCH	-8.490	8	PASS
	HCH	-8.060	8	PASS
11N40SISO	LCH	-12.590	8	PASS
	MCH	-11.560	8	PASS
	HCH	-11.730	8	PASS

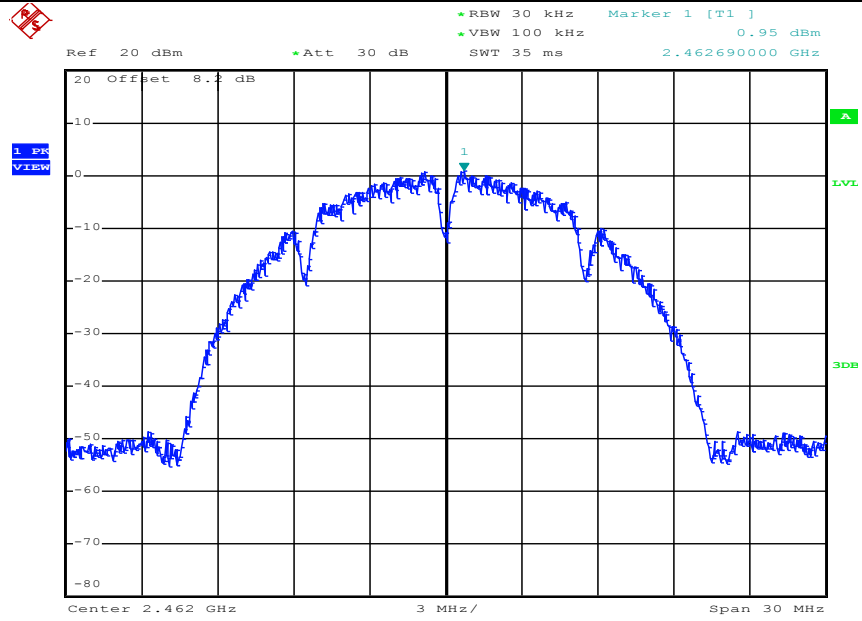


11B/MCH



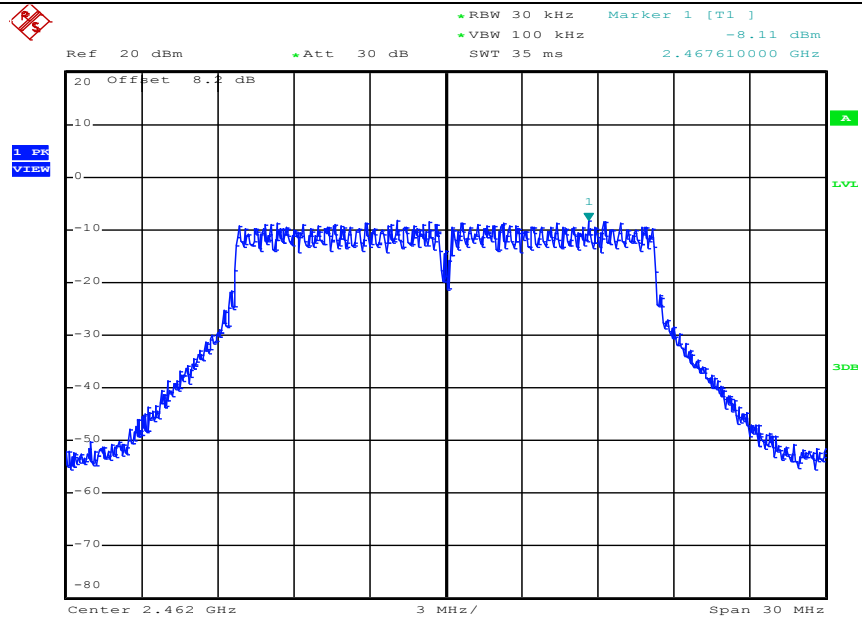
Date: 30.SEP.2019 14:46:33

11B/HCH



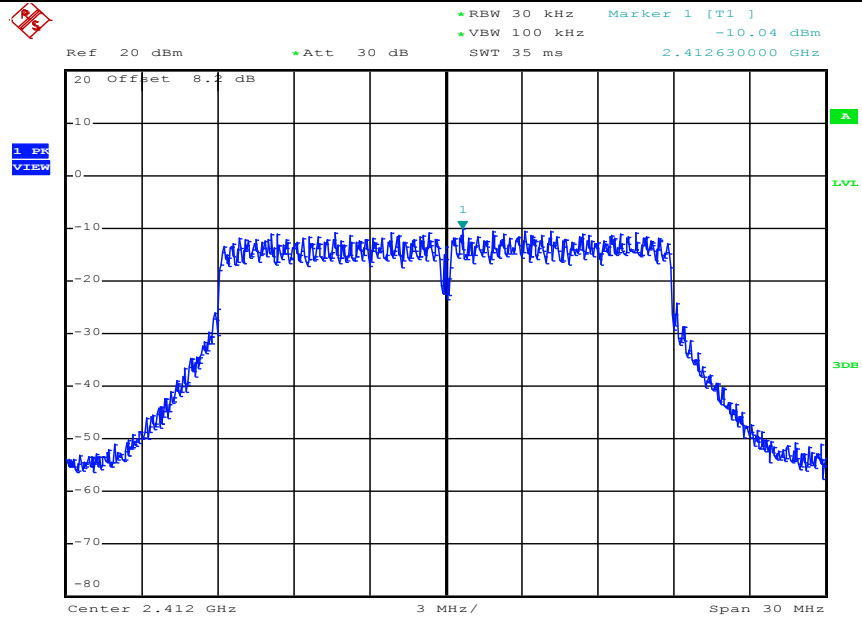
Date: 30.SEP.2019 14:48:36

11G/HCH



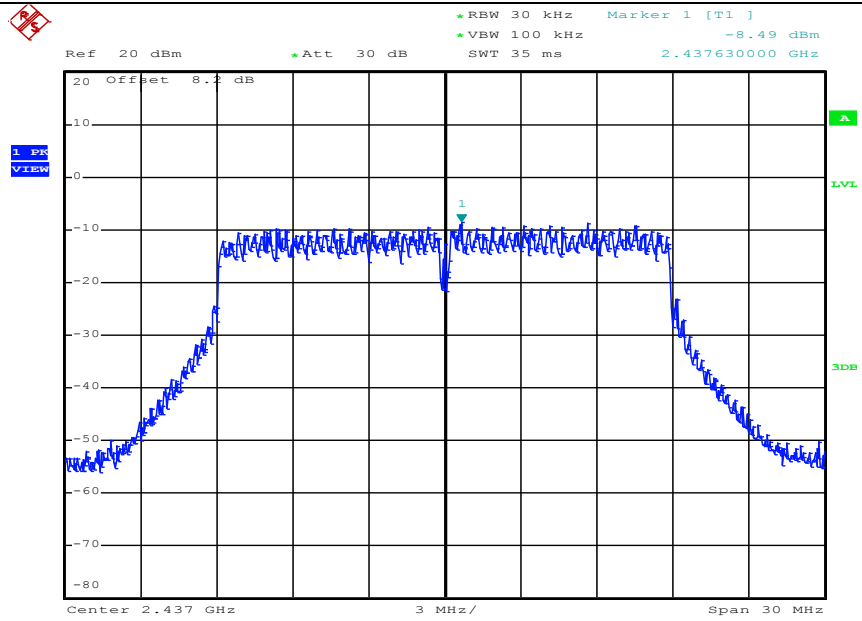
Date: 30.SEP.2019 14:56:51

11N20SISO/LCH



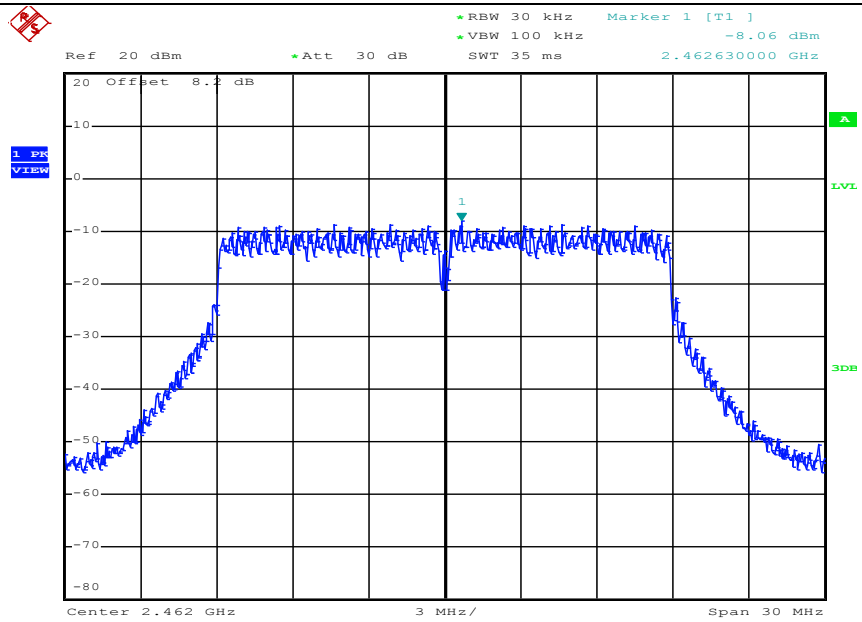
Date: 30.SEP.2019 15:00:34

11N20SISO/MCH



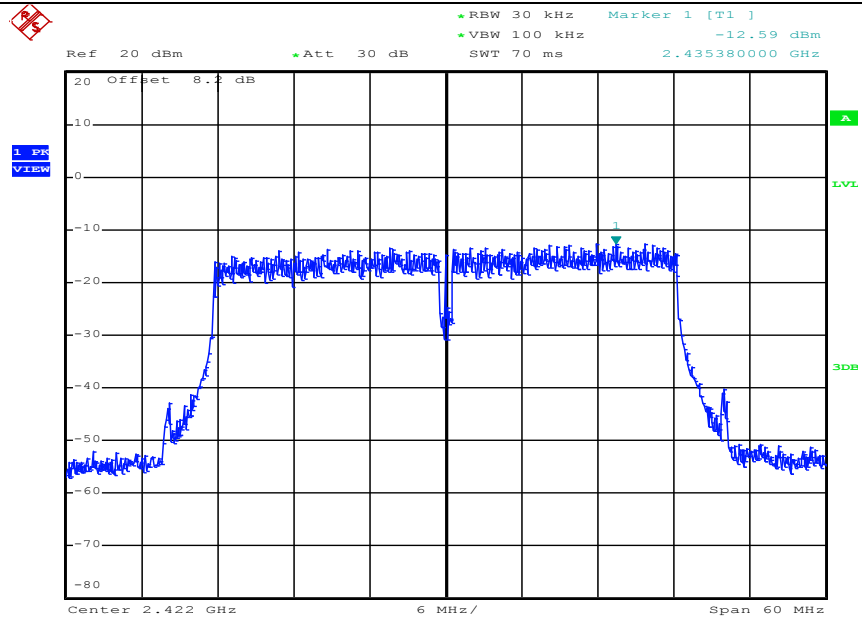
Date: 30.SEP.2019 15:03:20

11N20SISO/HCH



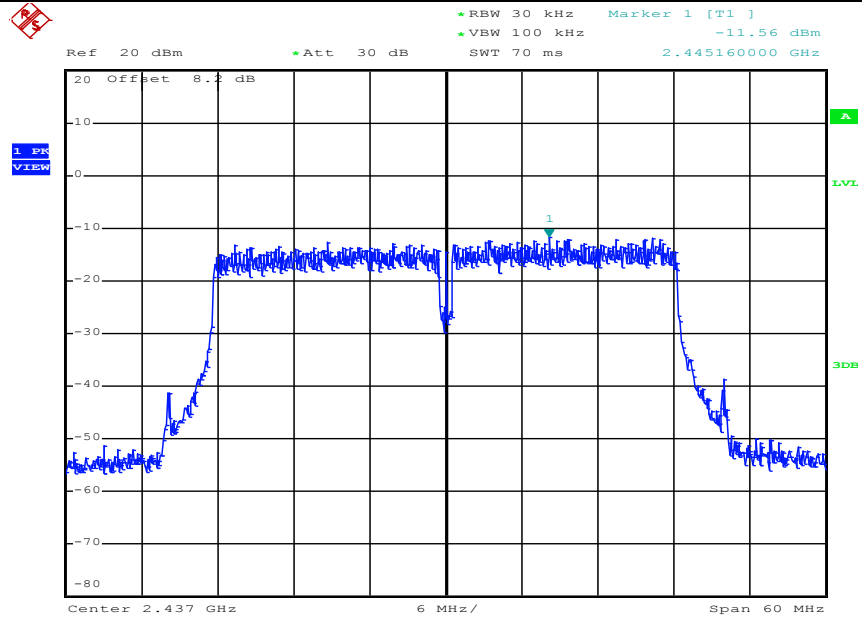
Date: 30.SEP.2019 15:22:12

11N40SISO/LCH



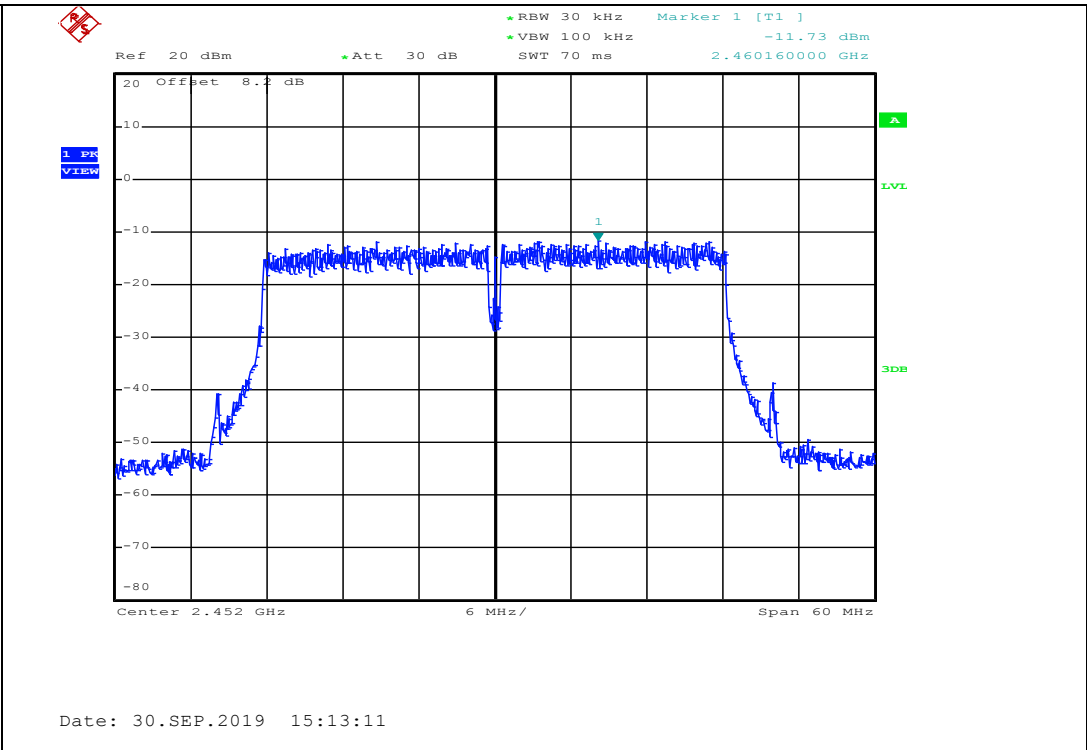
Date: 30.SEP.2019 15:07:53

11N40SISO/MCH



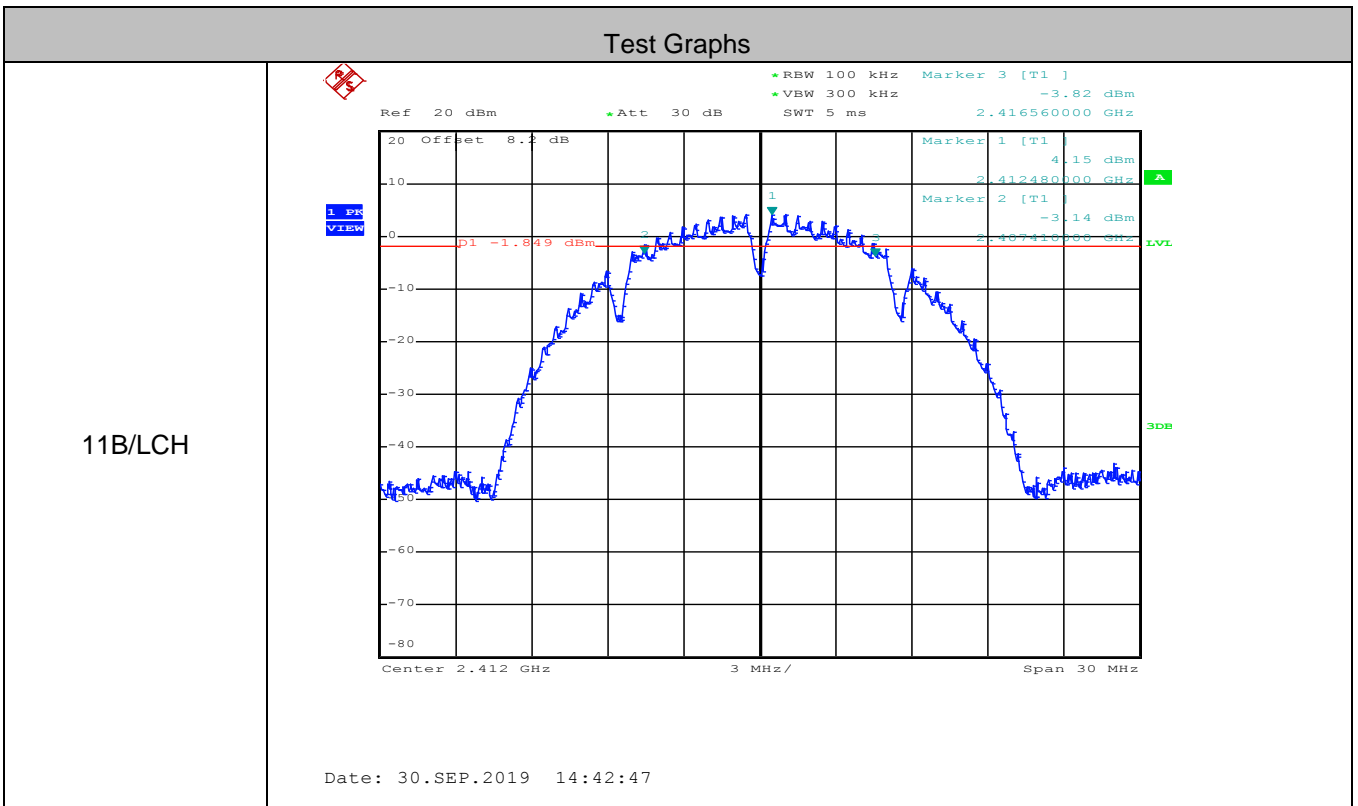
Date: 30.SEP.2019 15:10:42

11N40SISO/HCH

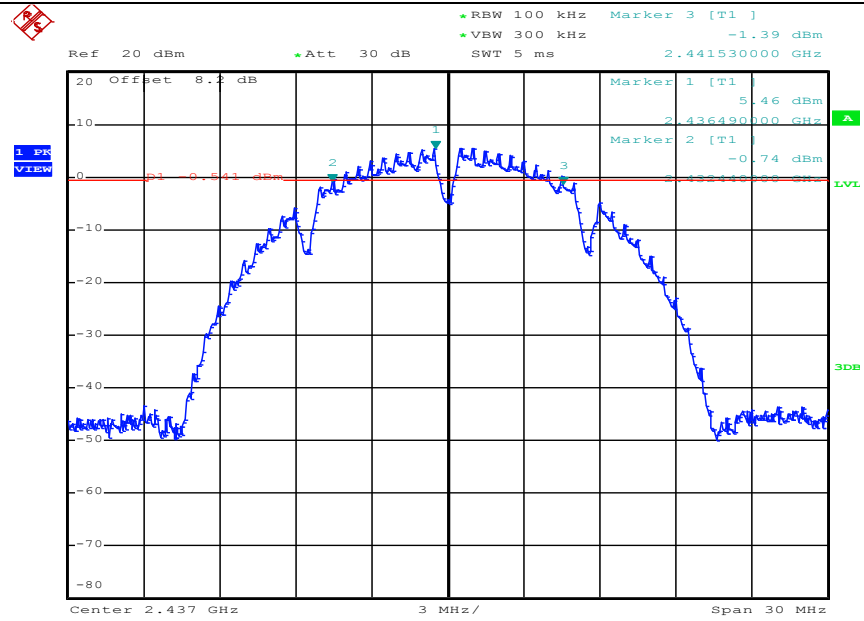


C.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.150	≥0.5	PASS
	MCH	9.090	≥0.5	PASS
	HCH	9.150	≥0.5	PASS
11G	LCH	16.620	≥0.5	PASS
	MCH	16.590	≥0.5	PASS
	HCH	16.620	≥0.5	PASS
11N20SISO	LCH	17.790	≥0.5	PASS
	MCH	17.850	≥0.5	PASS
	HCH	17.820	≥0.5	PASS
11N40SISO	LCH	36.600	≥0.5	PASS
	MCH	36.600	≥0.5	PASS
	HCH	36.540	≥0.5	PASS

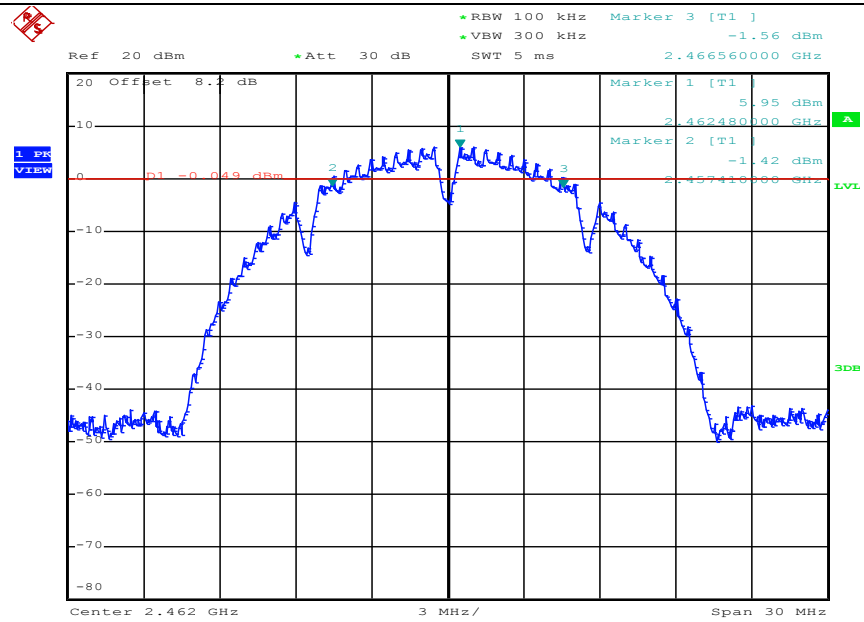


11B/MCH



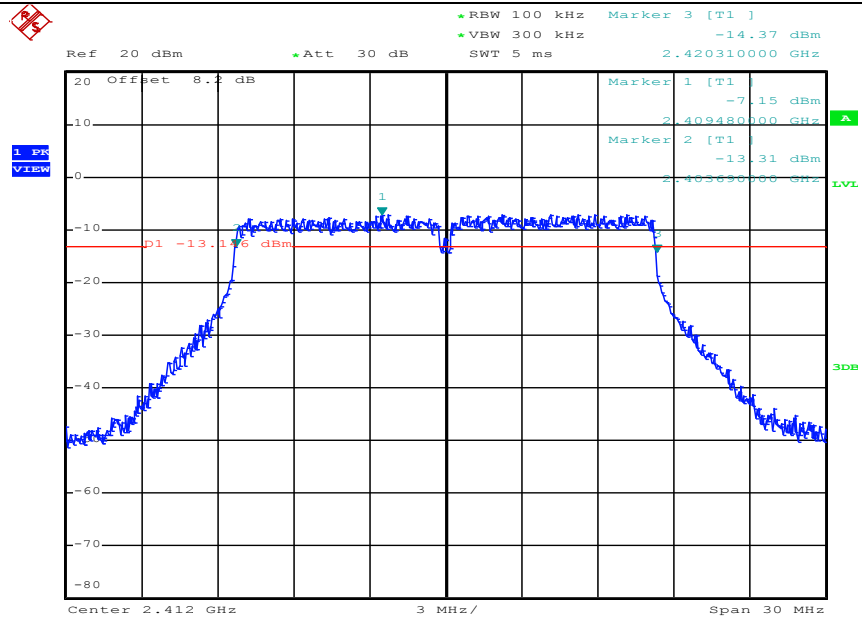
Date: 30.SEP.2019 14:45:46

11B/HCH



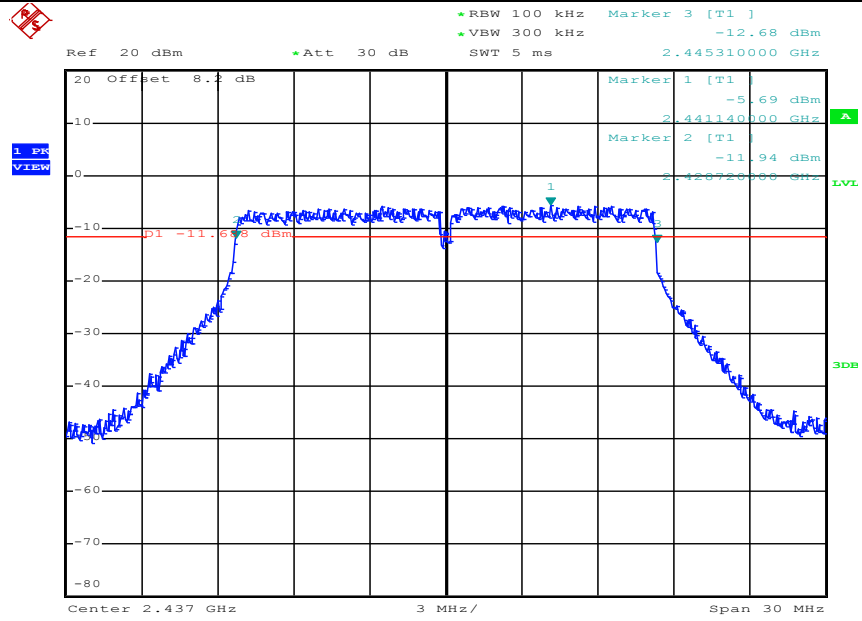
Date: 30.SEP.2019 14:47:49

11G/LCH



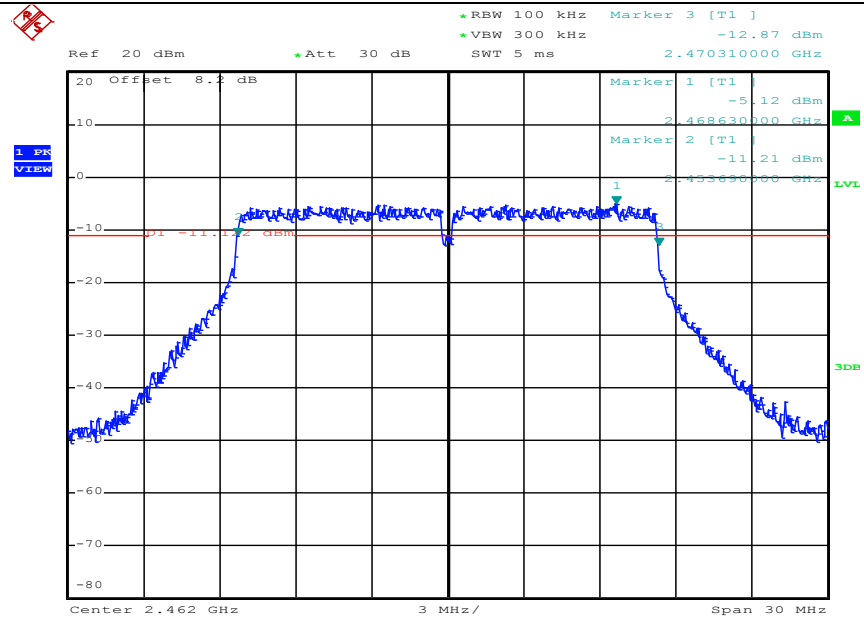
Date: 30.SEP.2019 14:50:41

11G/MCH



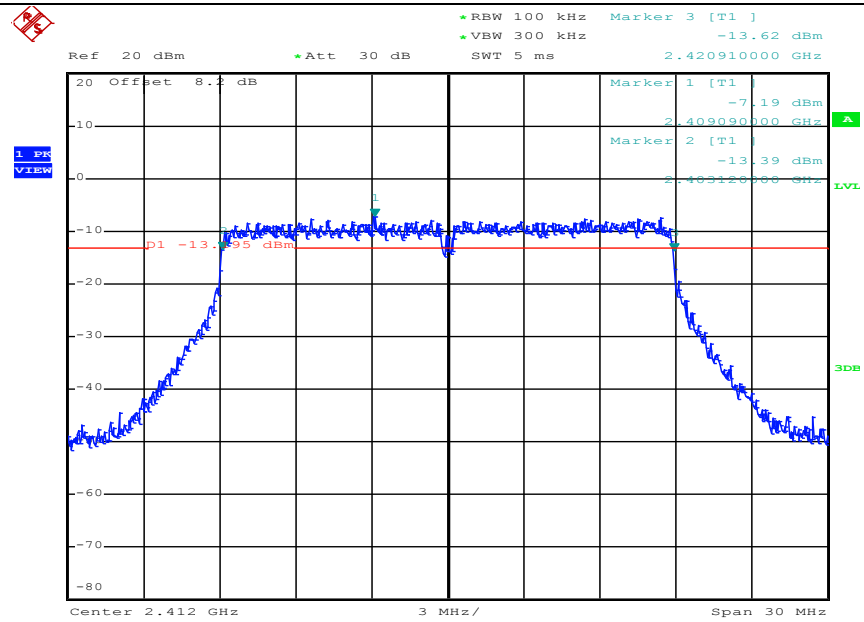
Date: 30.SEP.2019 14:53:44

11G/HCH



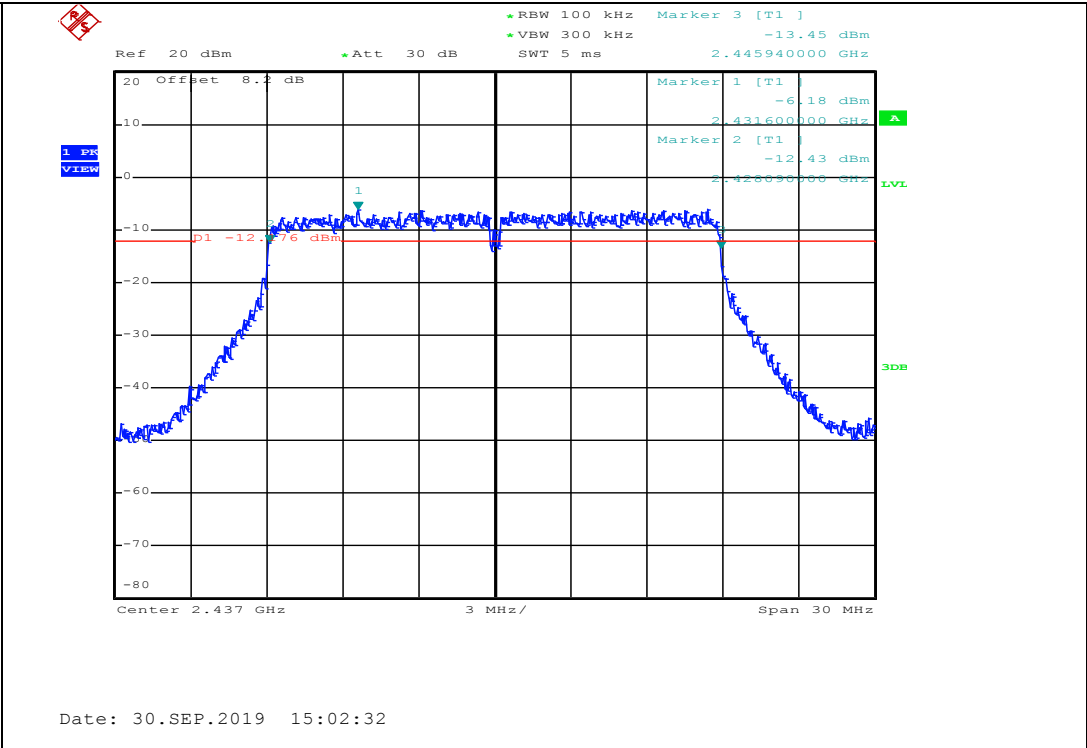
Date: 30.SEP.2019 14:56:03

11N20SISO/LCH

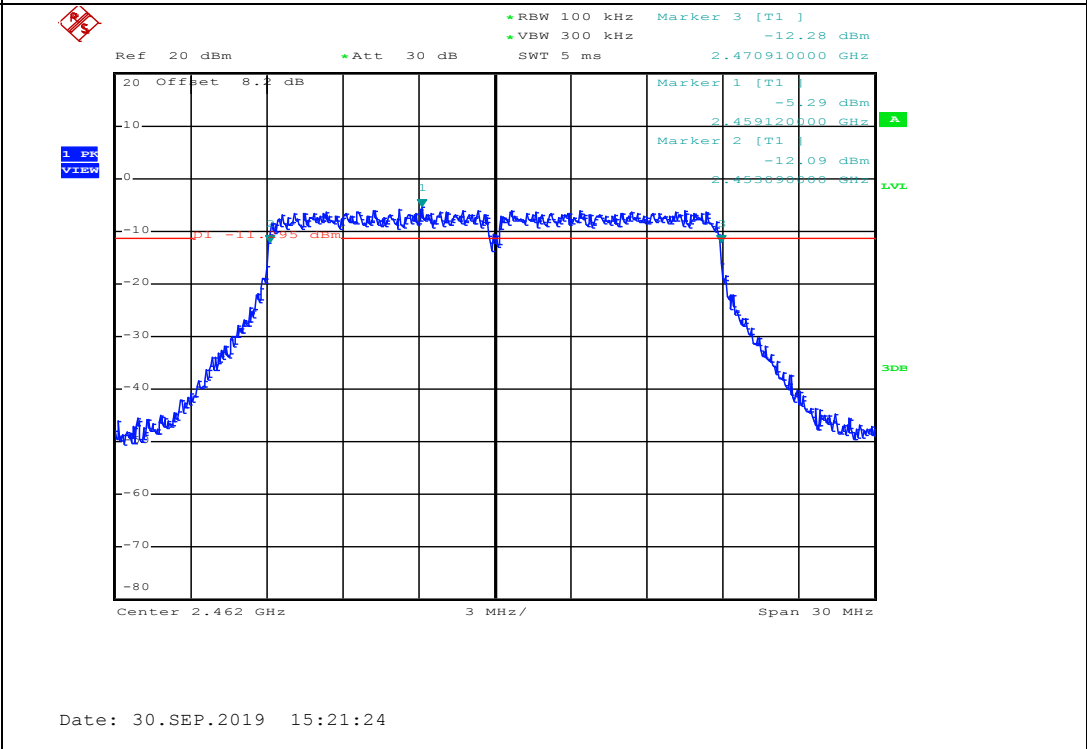


Date: 30.SEP.2019 14:59:47

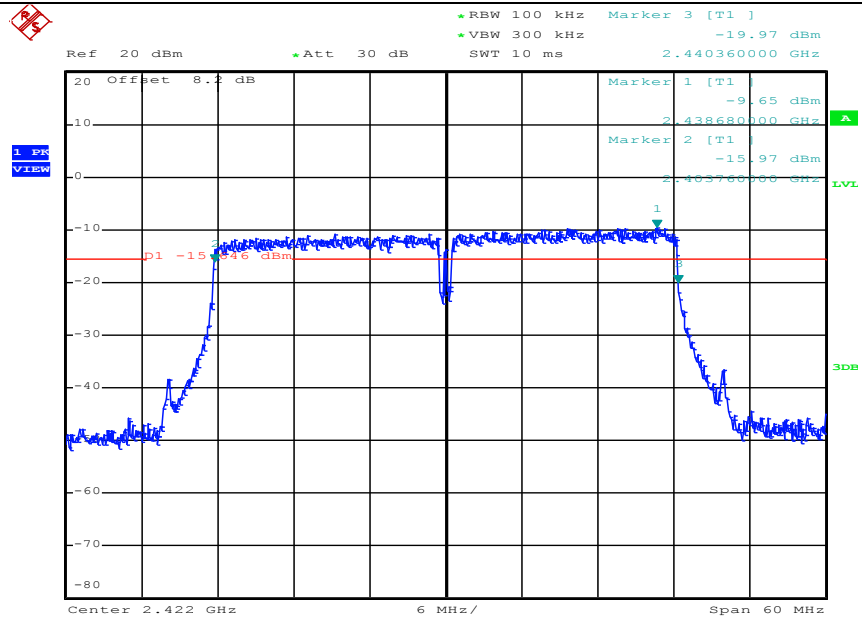
11N20SISO/MCH



11N20SISO/HCH

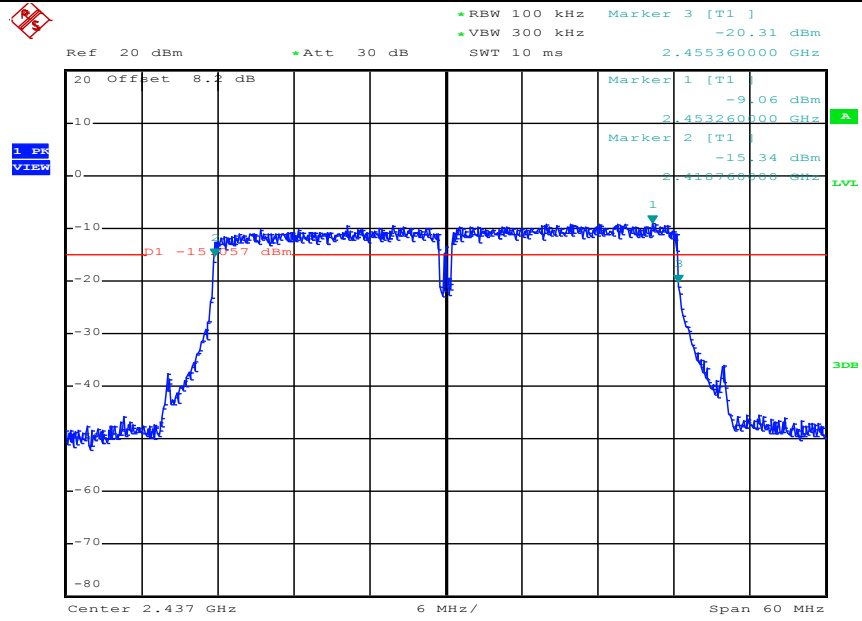


11N40SISO/LCH



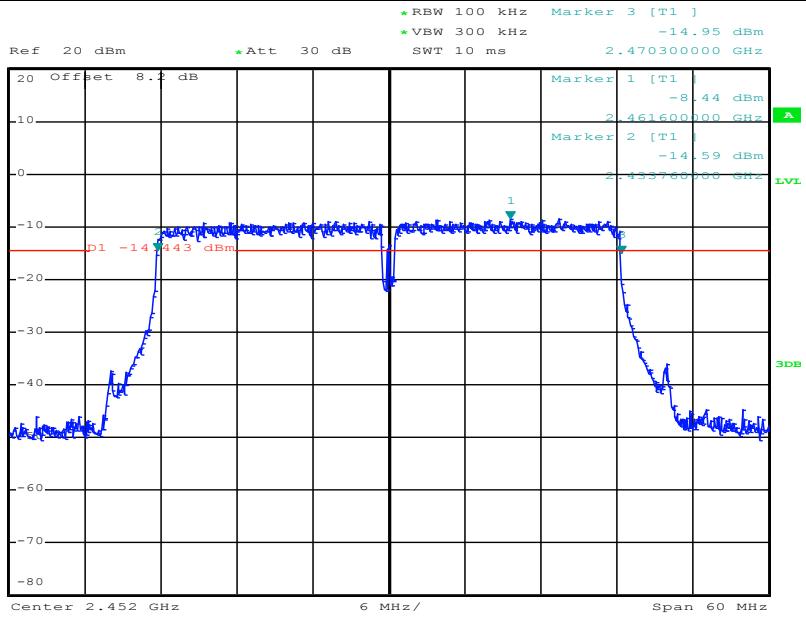
Date: 30.SEP.2019 15:07:06

11N40SISO/MCH



Date: 30.SEP.2019 15:09:55

11N40SISO/HCH



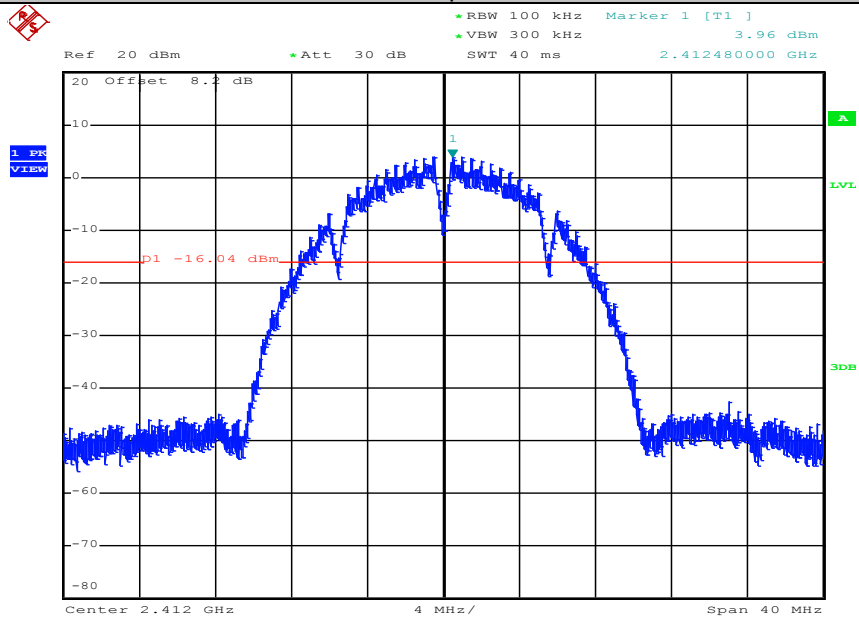
Date: 30.SEP.2019 15:12:24

C.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	3.96	-31.990	-16.040	PASS
	MCH	5.11	-31.590	-14.890	PASS
	HCH	5.59	-31.540	-14.410	PASS
11G	LCH	-7.09	-31.910	-27.090	PASS
	MCH	-5.97	-31.780	-25.970	PASS
	HCH	-5.44	-32.440	-25.440	PASS
11N20 SISO	LCH	-7.57	-31.350	-27.570	PASS
	MCH	-6.01	-31.300	-26.010	PASS
	HCH	-5.85	-31.640	-25.850	PASS
11N40 SISO	LCH	-9.91	-32.100	-29.910	PASS
	MCH	-9.2	-32.190	-29.200	PASS
	HCH	-9.03	-31.920	-29.030	PASS

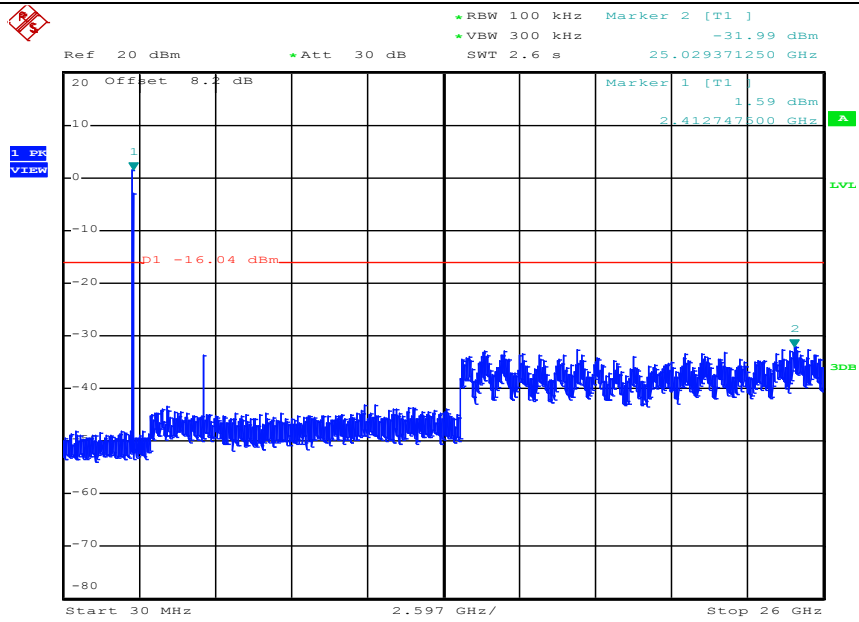
11B_LCH_Graphs

Pref/11B/LCH



Date: 30.SEP.2019 14:44:01

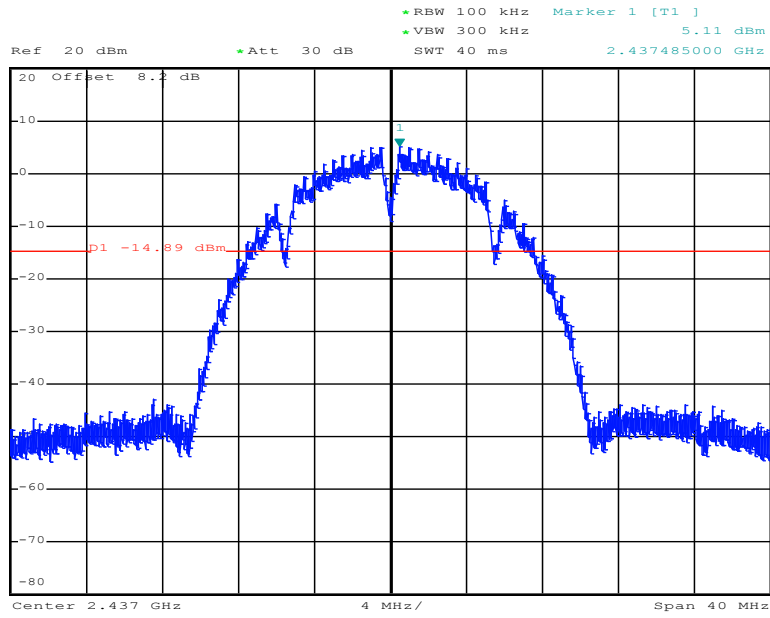
Puw/11B/LCH



Date: 30.SEP.2019 14:44:15

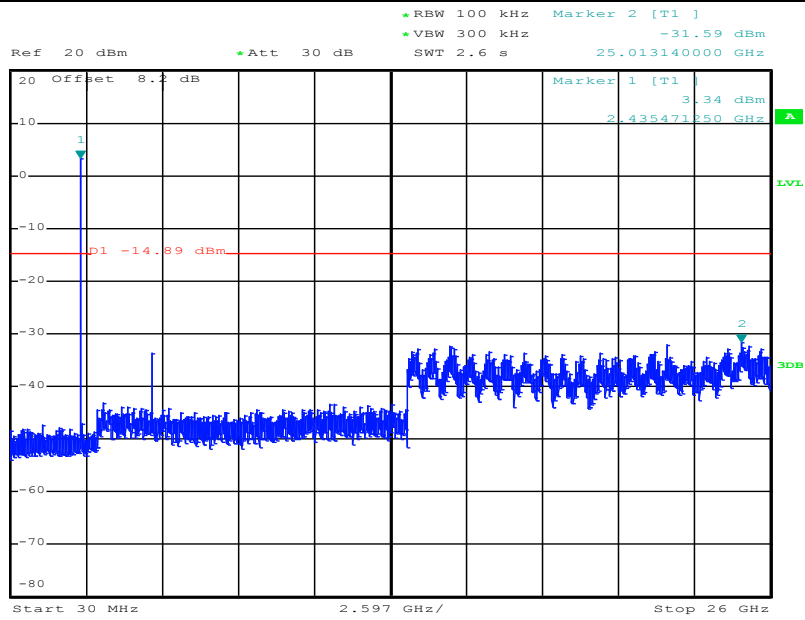
11B_MCH_Graphs

Pref/11B/MCH



Date: 30.SEP.2019 14:46:46

Puw/11B/MCH



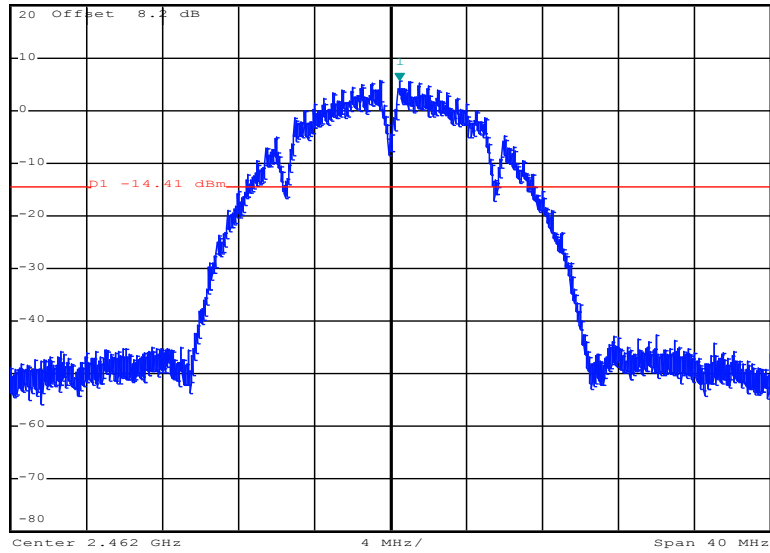
Date: 30.SEP.2019 14:47:00

11B_HCH_Graphs

Pref/11B/HCH



Ref 20 dBm *Att 30 dB *RBW 100 kHz Marker 1 [T1] 5.59 dBm
*VBW 300 kHz 2.462490000 GHz
SWT 40 ms

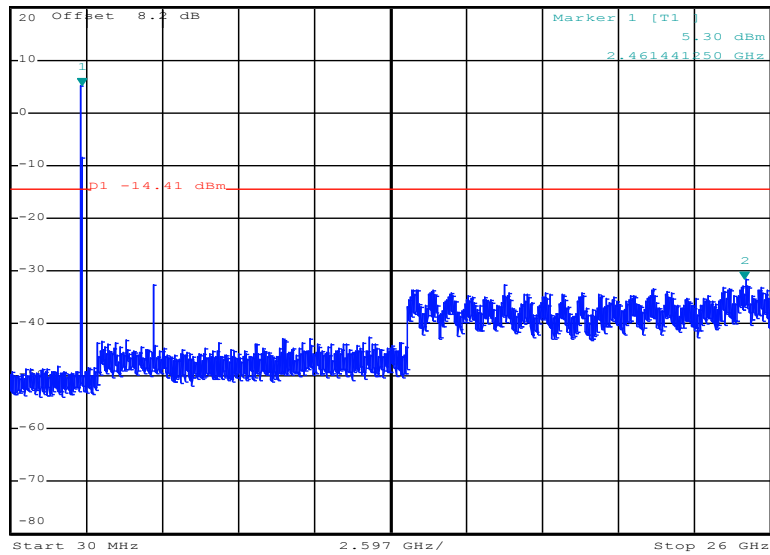


Date: 30.SEP.2019 14:49:03

Puw/11B/HCH



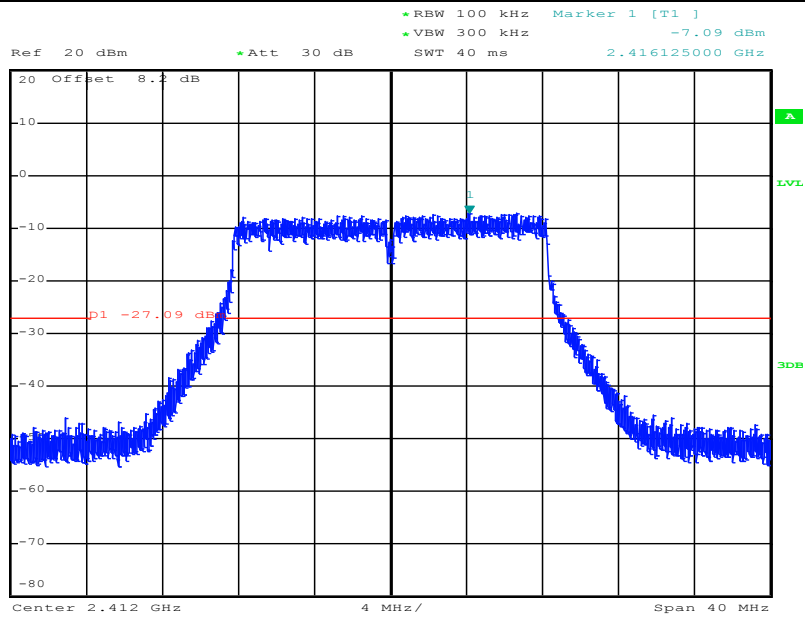
Ref 20 dBm *Att 30 dB *RBW 100 kHz Marker 2 [T1] -31.54 dBm
*VBW 300 kHz 25.130005000 GHz
SWT 2.6 s



Date: 30.SEP.2019 14:49:17

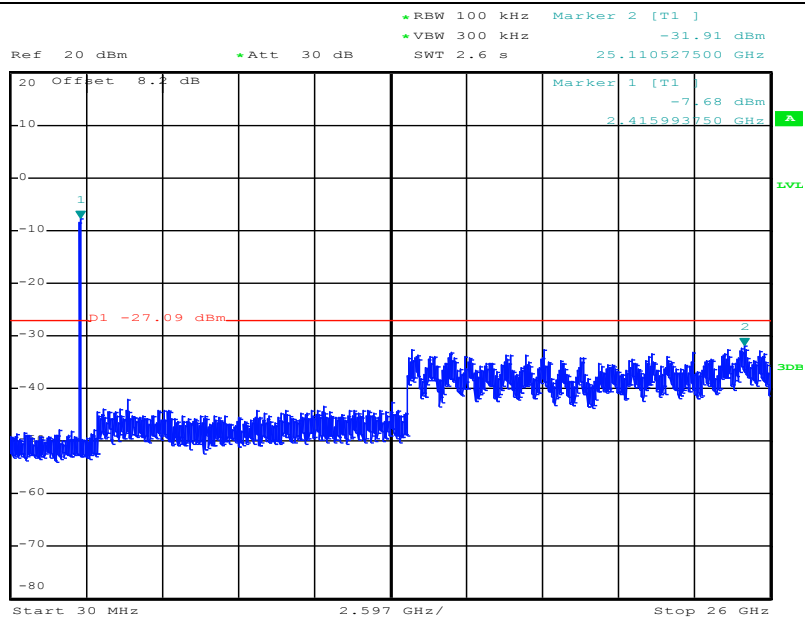
11G_LCH_Graphs

Pref/11G/LCH



Date: 30.SEP.2019 14:51:55

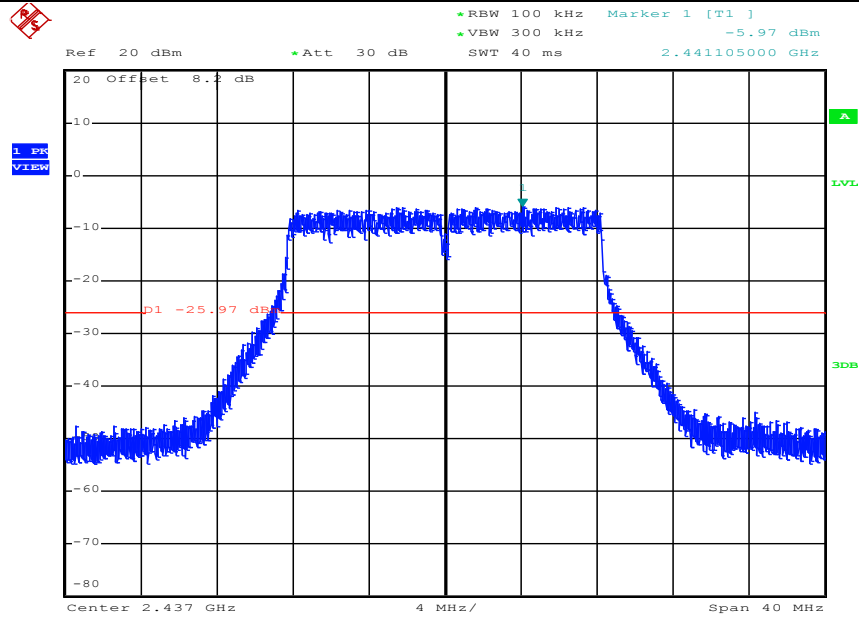
Puw/11G/LCH



Date: 30.SEP.2019 14:52:09

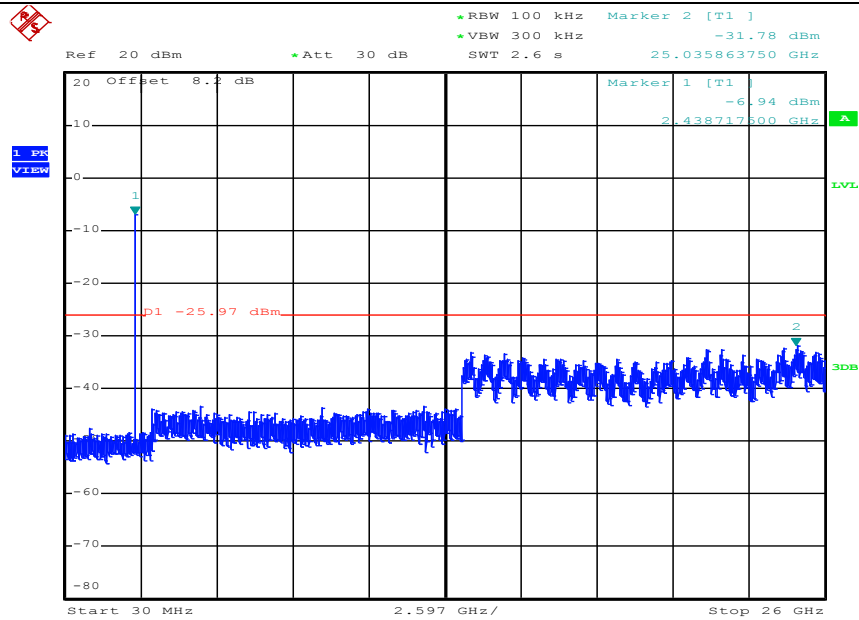
11G_MCH_Graphs

Pref/11G/MCH



Date: 30.SEP.2019 14:54:44

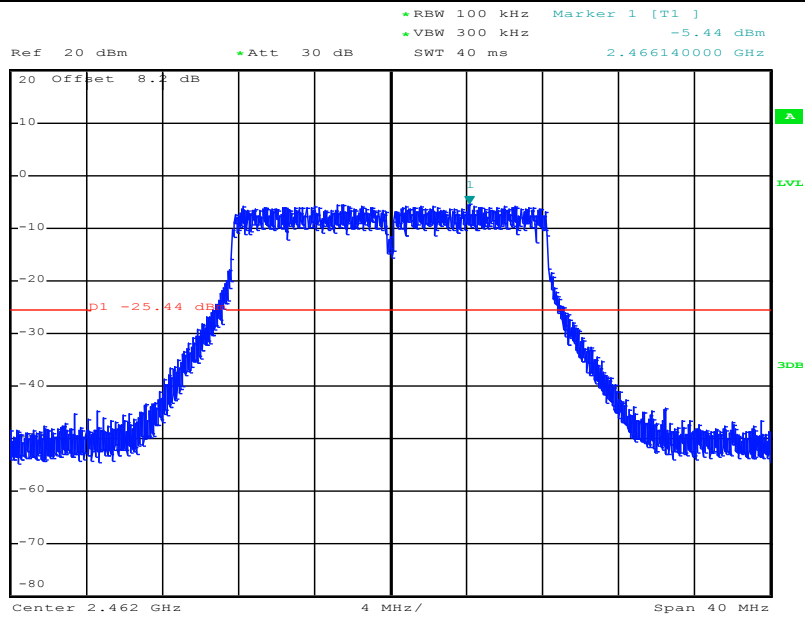
Puw/11G/MCH



Date: 30.SEP.2019 14:54:58

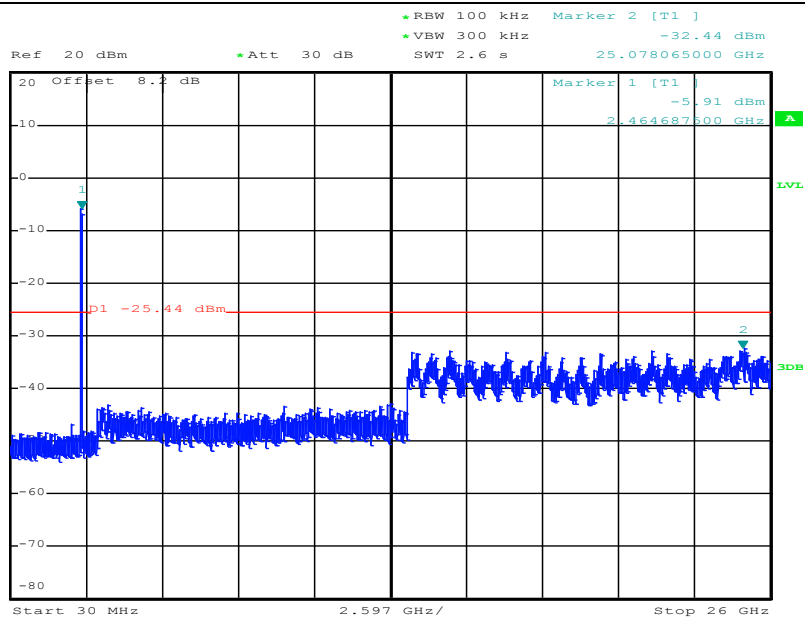
11G_HCH_Graphs

Pref/11G/HCH



Date: 30.SEP.2019 14:57:17

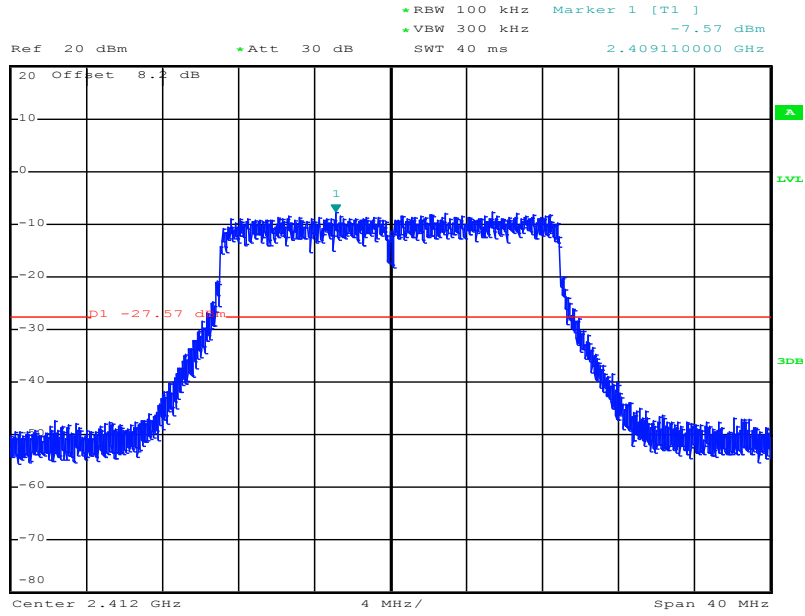
Puw/11G/HCH



Date: 30.SEP.2019 14:57:31

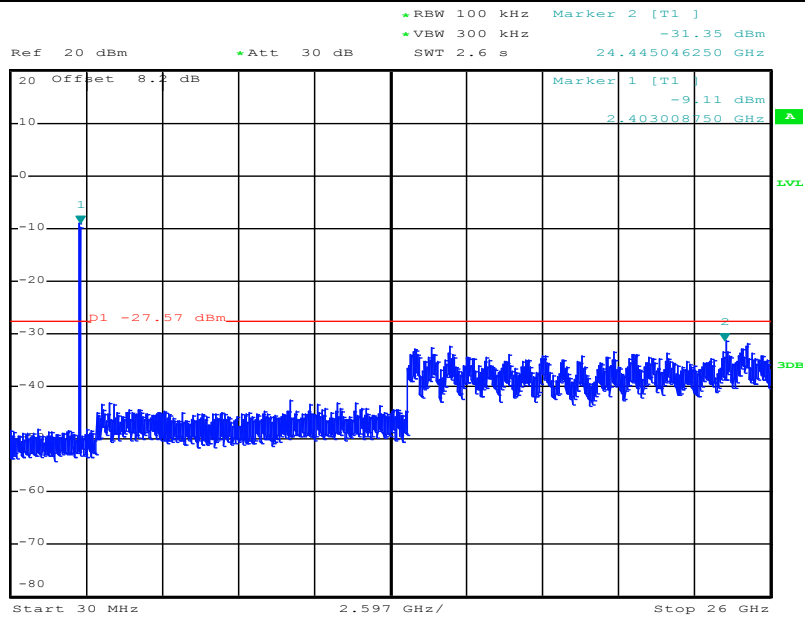
11N20SISO_LCH_Graphs

Pref/11N20SIS
O/LCH



Date: 30.SEP.2019 15:01:00

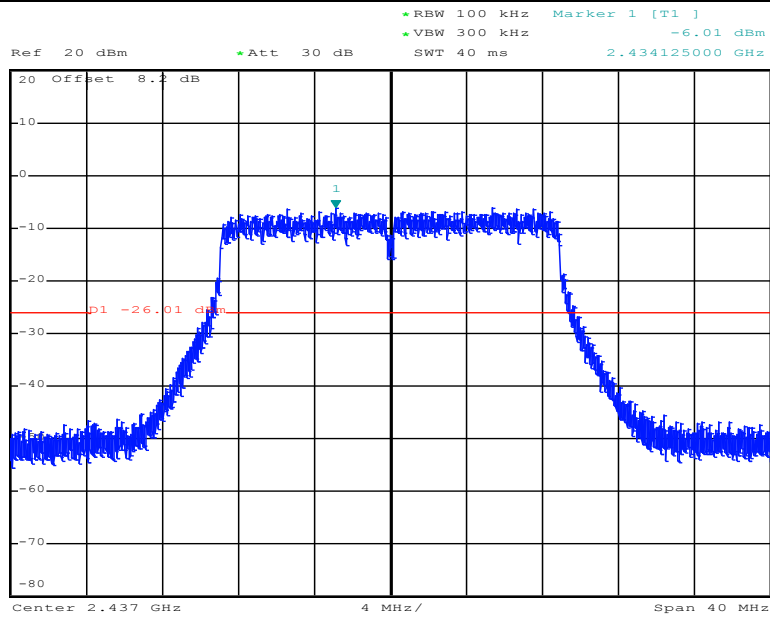
Puw/11N20
SISO/LCH



Date: 30.SEP.2019 15:01:15

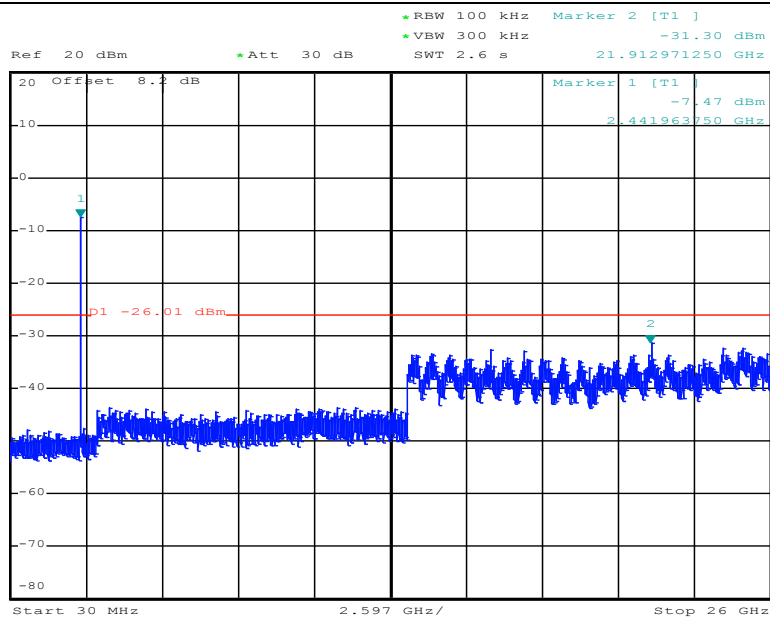
11N20SISO_MCH_Graphs

Pref/11N20
SISO/MCH



Date: 30.SEP.2019 15:24:25

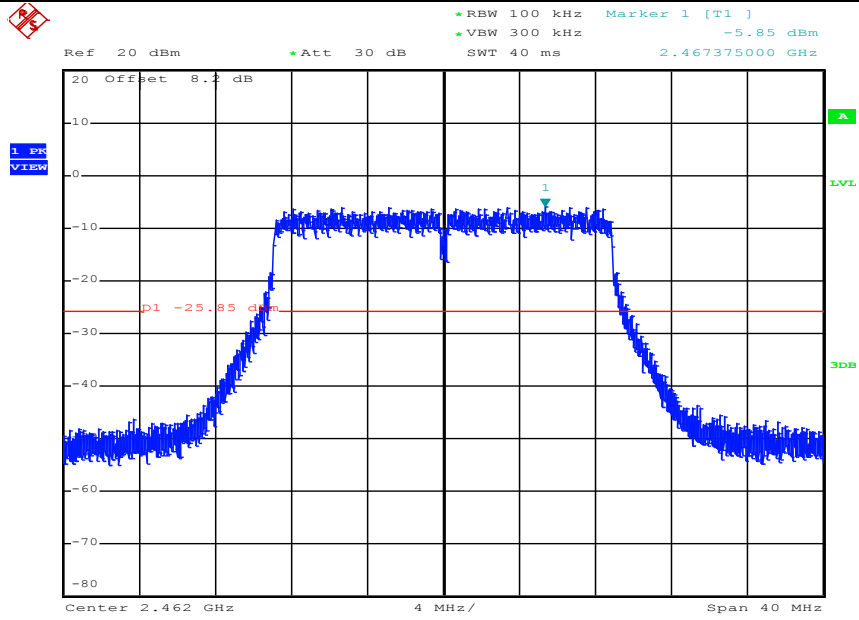
Puw/11N20
SISO/MCH



Date: 30.SEP.2019 15:24:39

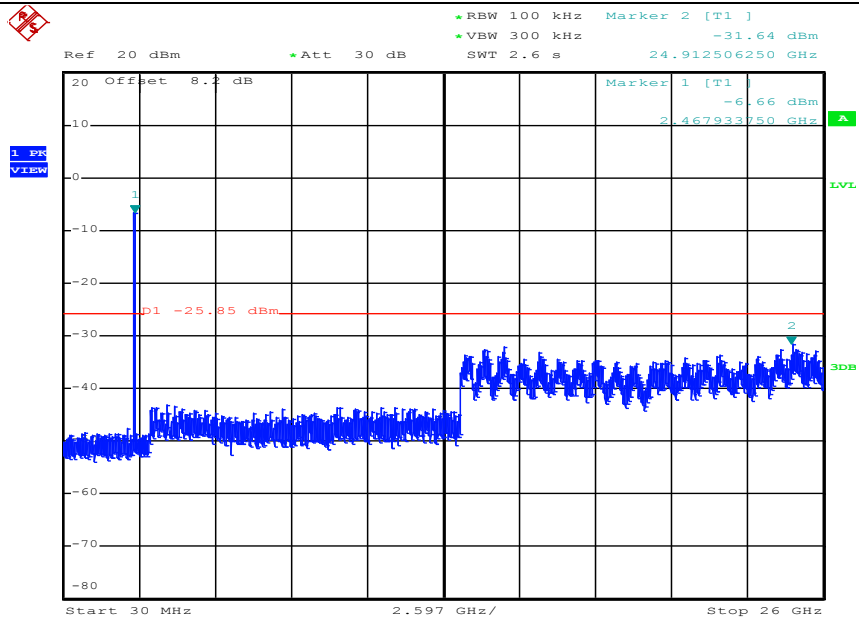
11N20SISO_HCH_Graphs

Pref/11N20
SISO/HCH



Date: 30.SEP.2019 15:22:38

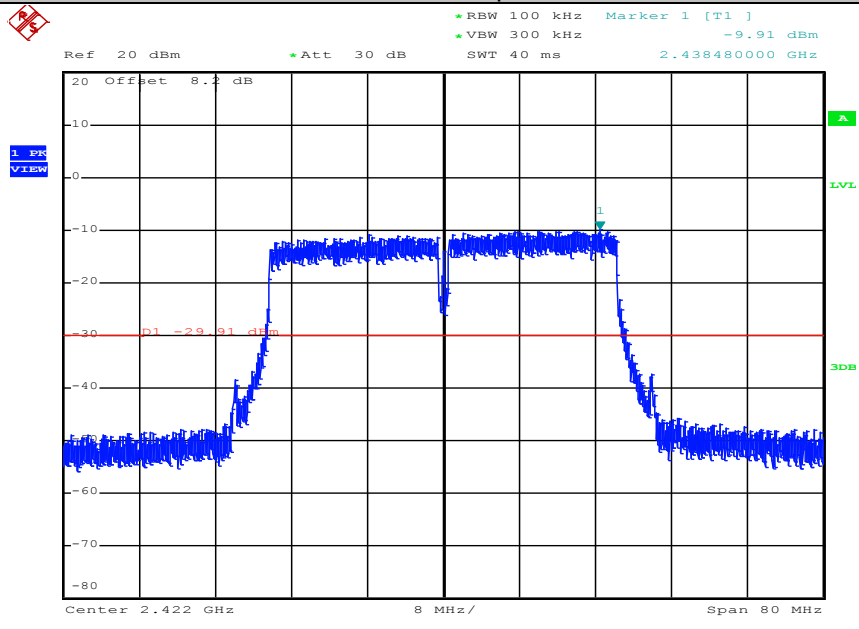
Puw/11N20
SISO/HCH



Date: 30.SEP.2019 15:22:53

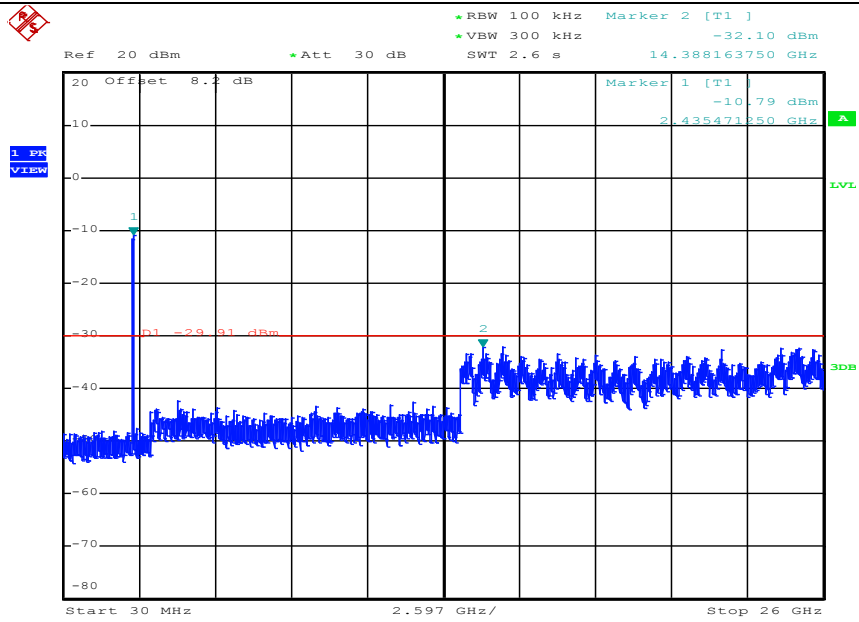
11N40SISO_LCH_Graphs

Pref/11N40
SISO/LCH



Date: 30.SEP.2019 15:08:20

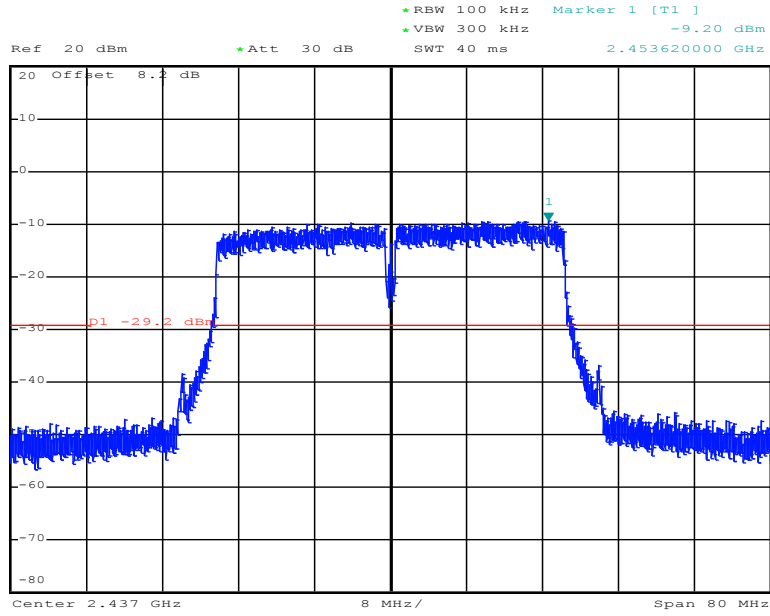
Puw/11N40
SISO/LCH



Date: 30.SEP.2019 15:08:34

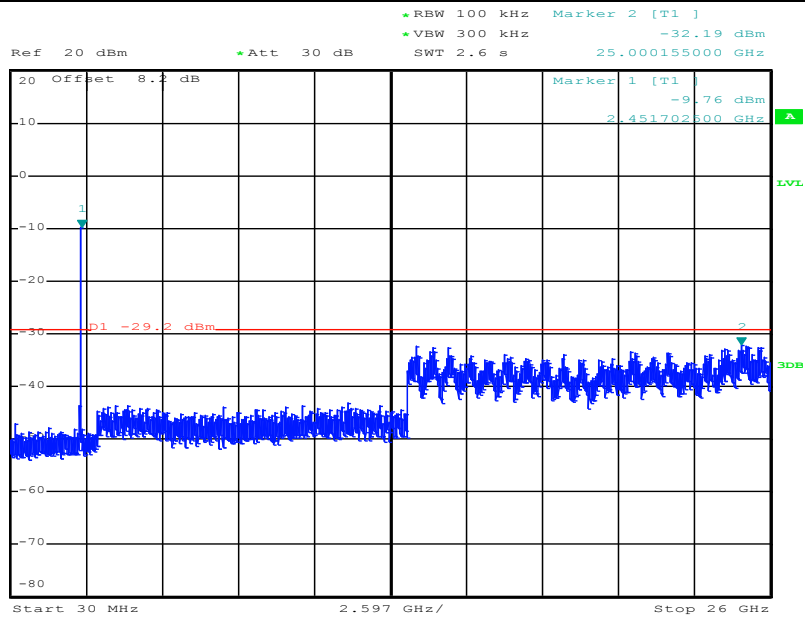
11N40SISO_MCH_Graphs

Pref/11N40
SISO/MCH



Date: 30.SEP.2019 15:10:54

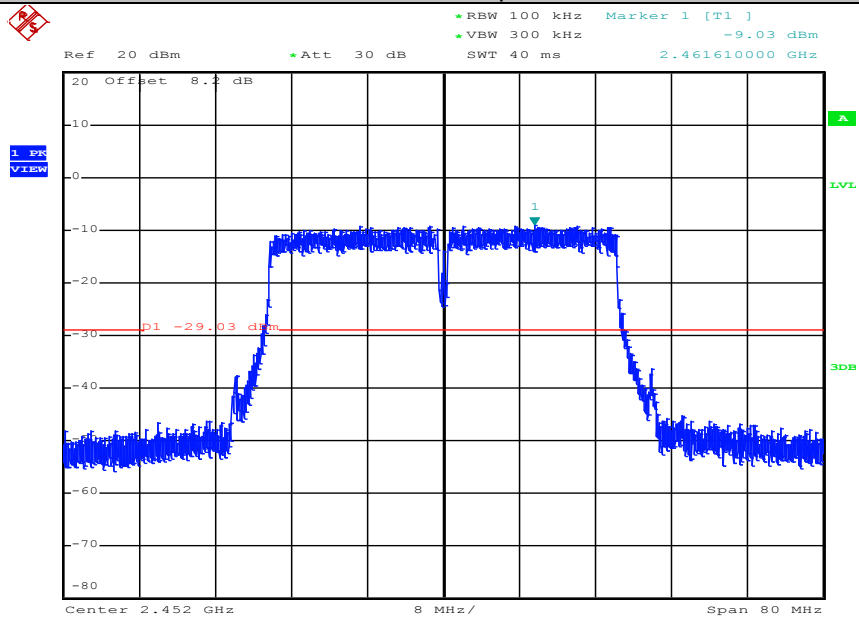
Puw/11N40
SISO/MCH



Date: 30.SEP.2019 15:11:09

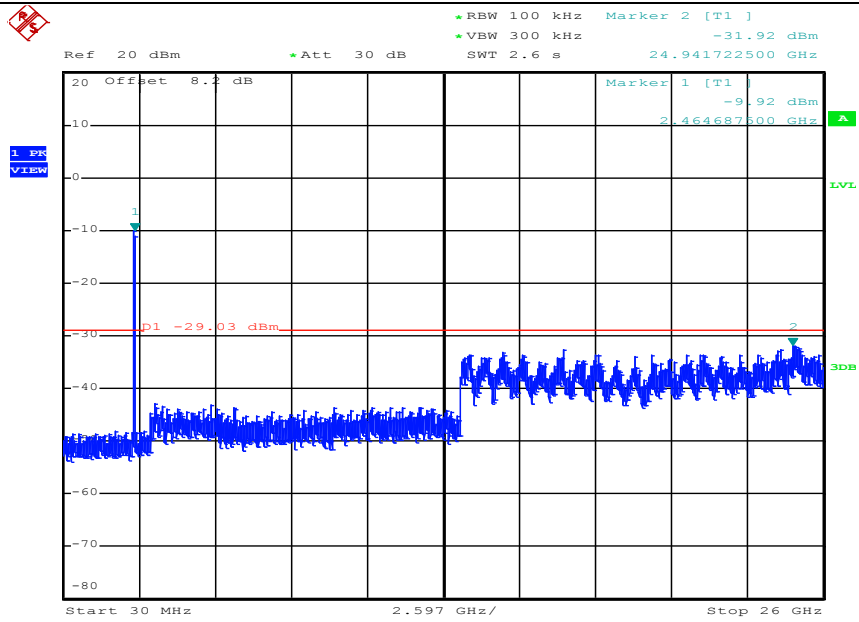
11N40SISO_HCH_Graphs

Pref/11N40
SISO/HCH



Date: 30.SEP.2019 15:13:38

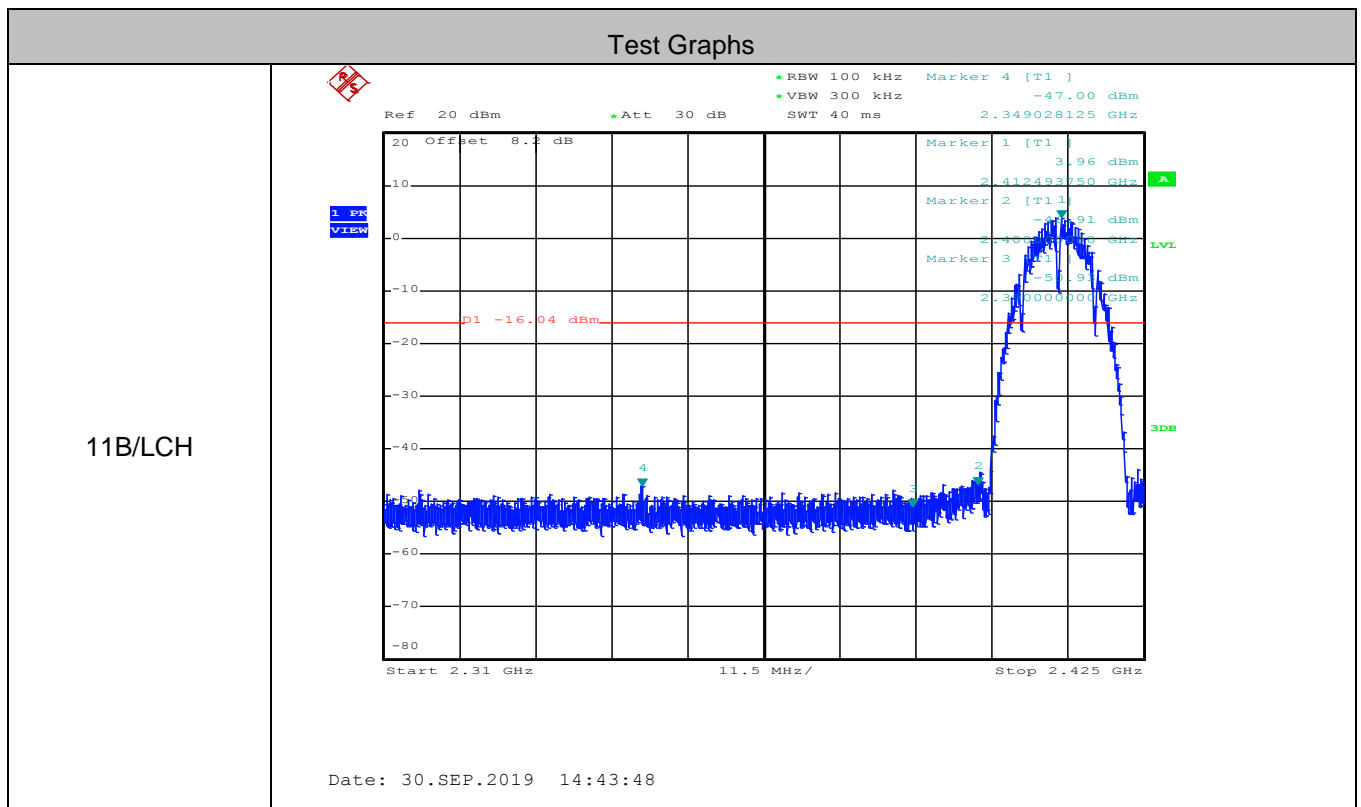
Puw/11N40
SISO/HCH



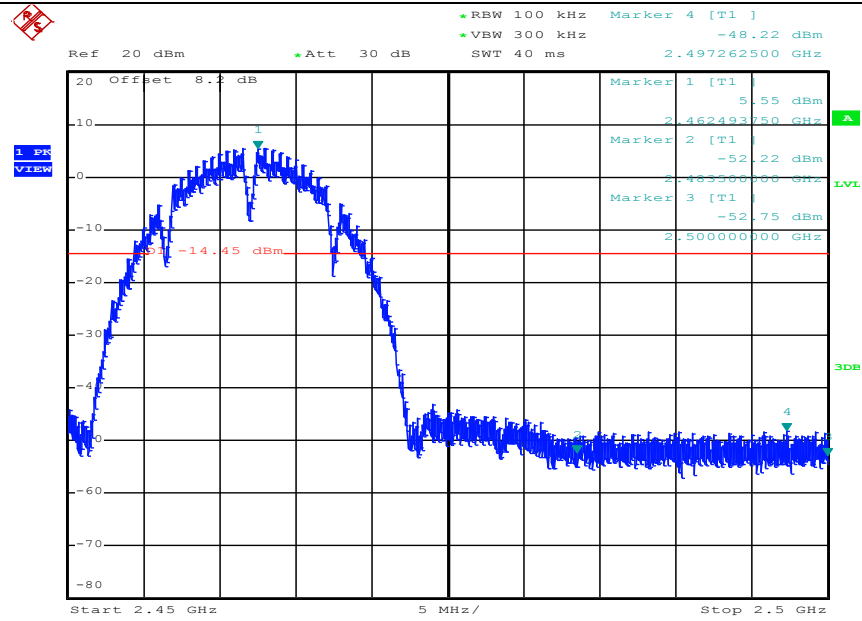
Date: 30.SEP.2019 15:13:52

C.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	3.960	-47.000	-16.04	PASS
	HCH	5.550	-48.217	-14.45	PASS
11G	LCH	-7.350	-47.344	-27.35	PASS
	HCH	-5.440	-47.404	-25.44	PASS
11N20SISO	LCH	-7.780	-47.631	-27.78	PASS
	HCH	-5.550	-47.095	-25.55	PASS
11N40SISO	LCH	-9.760	-47.124	-29.76	PASS
	HCH	-8.730	-46.963	-28.73	PASS

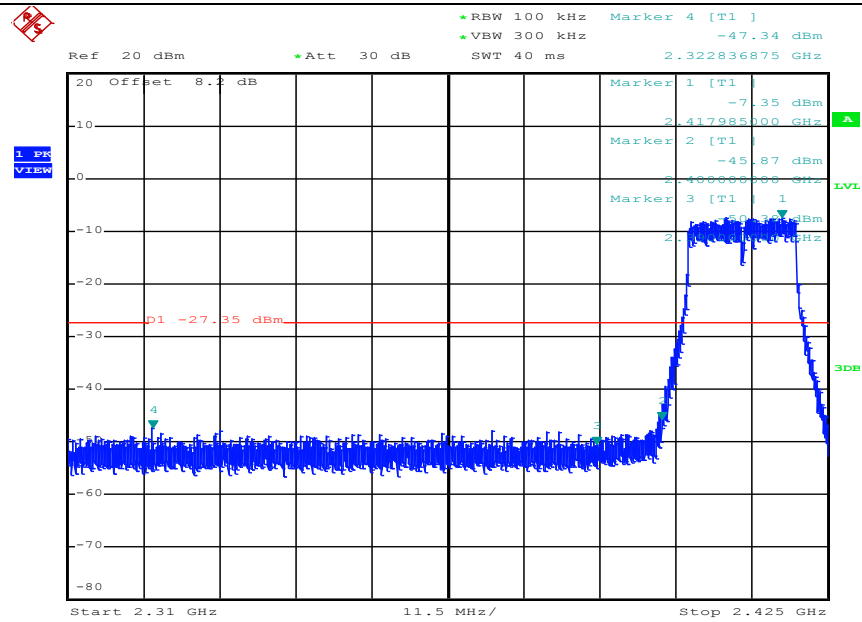


11B/HCH



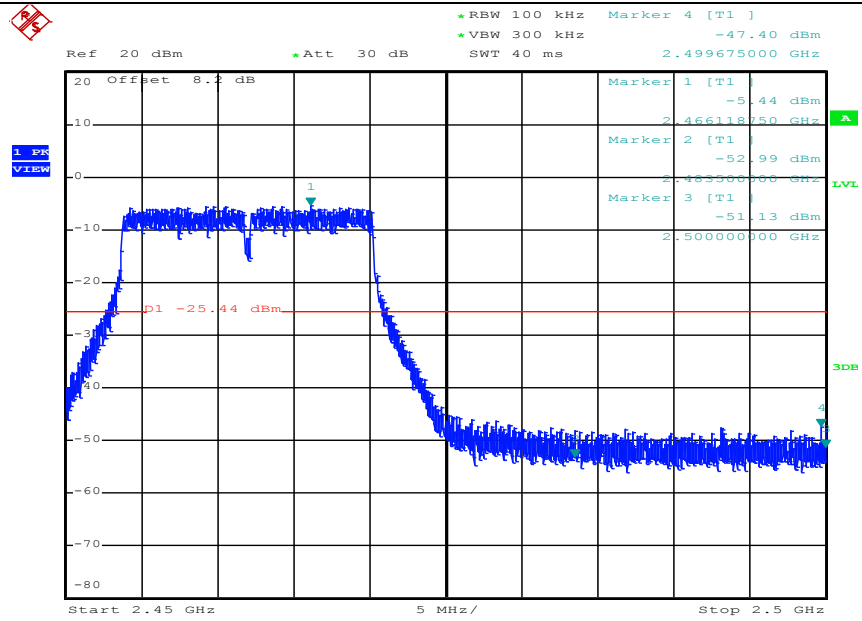
Date: 30.SEP.2019 14:48:50

11G/LCH



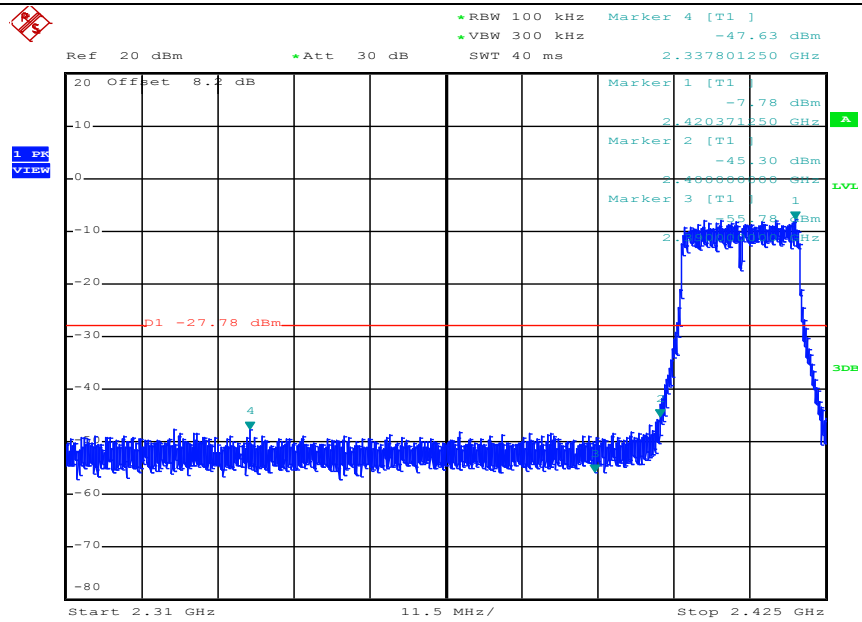
Date: 30.SEP.2019 14:51:42

11G/HCH



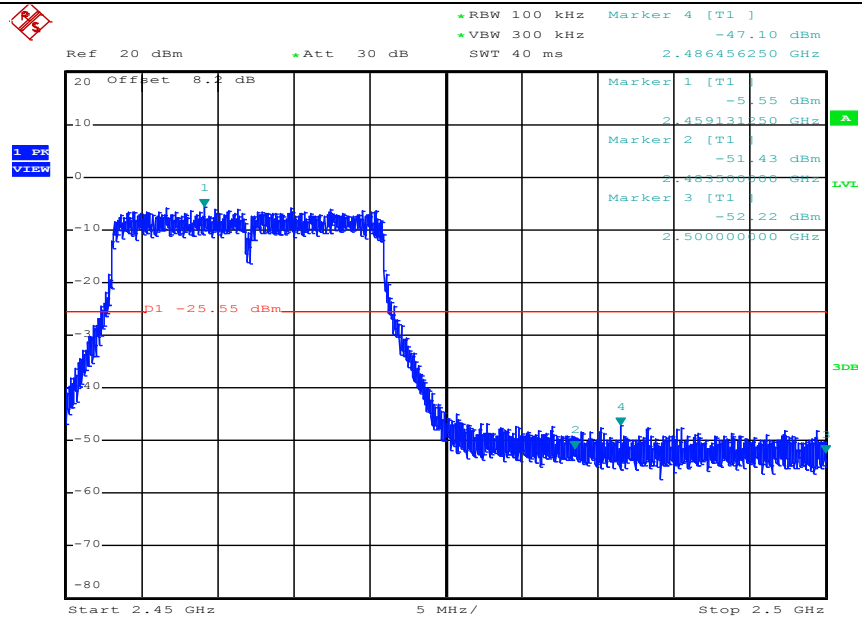
Date: 30.SEP.2019 14:57:04

11N20SISO/LCH



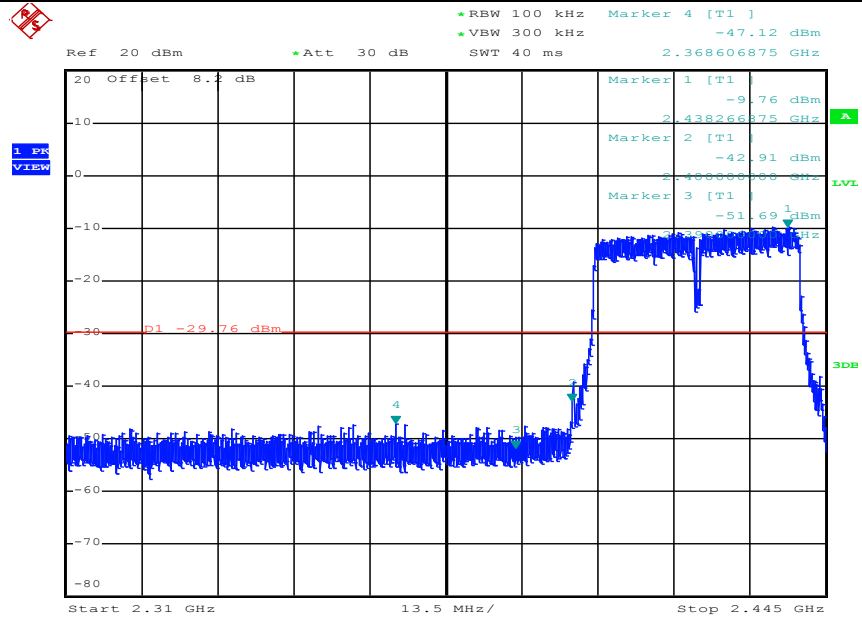
Date: 30.SEP.2019 15:00:47

11N20SISO/HCH



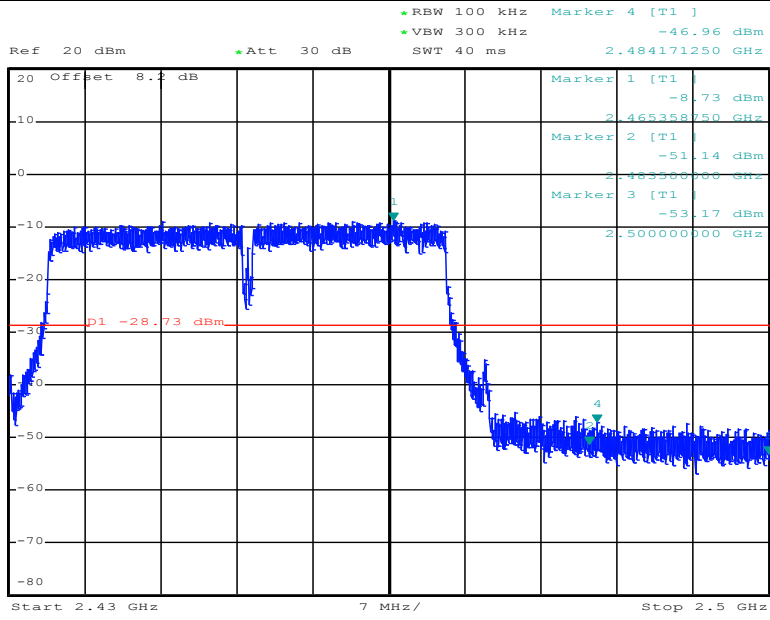
Date: 30.SEP.2019 15:22:25

11N40SISO/LCH



Date: 30.SEP.2019 15:08:07

11N40SISO/HCH



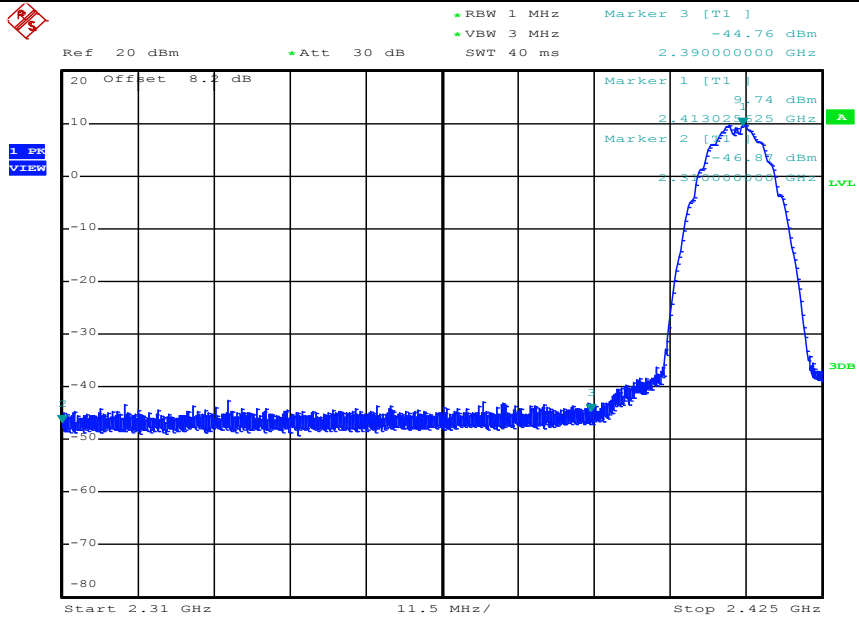
Date: 30.SEP.2019 15:13:25

C.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
11B	2412	Ant1	2310.0	-46.87	3.0	0	51.36	PEAK	74	PASS
	2412	Ant1	2310.0	-56.86	3.0	0	41.37	AV	54	PASS
	2412	Ant1	2390.0	-44.76	3.0	0	53.47	PEAK	74	PASS
	2412	Ant1	2390.0	-55.50	3.0	0	42.73	AV	54	PASS
	2462	Ant1	2483.5	-44.64	3.0	0	53.59	PEAK	74	PASS
	2462	Ant1	2483.5	-54.54	3.0	0	43.69	AV	54	PASS
	2462	Ant1	2500.0	-44.30	3.0	0	53.93	PEAK	74	PASS
	2462	Ant1	2500.0	-55.42	3.0	0	42.81	AV	54	PASS
11G	2412	Ant1	2310.0	-47.57	3.0	0	50.66	PEAK	74	PASS
	2412	Ant1	2310.0	-57.06	3.0	0	41.17	AV	54	PASS
	2412	Ant1	2390.0	-44.93	3.0	0	53.3	PEAK	74	PASS
	2412	Ant1	2390.0	-55.74	3.0	0	42.49	AV	54	PASS
	2462	Ant1	2483.5	-45.39	3.0	0	52.84	PEAK	74	PASS
	2462	Ant1	2483.5	-54.48	3.0	0	43.75	AV	54	PASS
	2462	Ant1	2500.0	-45.91	3.0	0	52.32	PEAK	74	PASS
	2462	Ant1	2500.0	-55.91	3.0	0	42.32	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-45.99	3.0	0	52.24	PEAK	74	PASS
	2412	Ant1	2310.0	-57.09	3.0	0	41.14	AV	54	PASS
	2412	Ant1	2390.0	-42.10	3.0	0	56.13	PEAK	74	PASS
	2412	Ant1	2390.0	-55.62	3.0	0	42.61	AV	54	PASS
	2462	Ant1	2483.5	-39.98	3.0	0	58.25	PEAK	74	PASS
	2462	Ant1	2483.5	-54.15	3.0	0	44.08	AV	54	PASS
	2462	Ant1	2500.0	-46.05	3.0	0	52.18	PEAK	74	PASS
	2462	Ant1	2500.0	-56.03	3.0	0	42.2	AV	54	PASS
11N40 SISO	2422	Ant1	2310.0	-48.18	3.0	0	50.05	PEAK	74	PASS
	2422	Ant1	2310.0	-57.07	3.0	0	41.16	AV	54	PASS

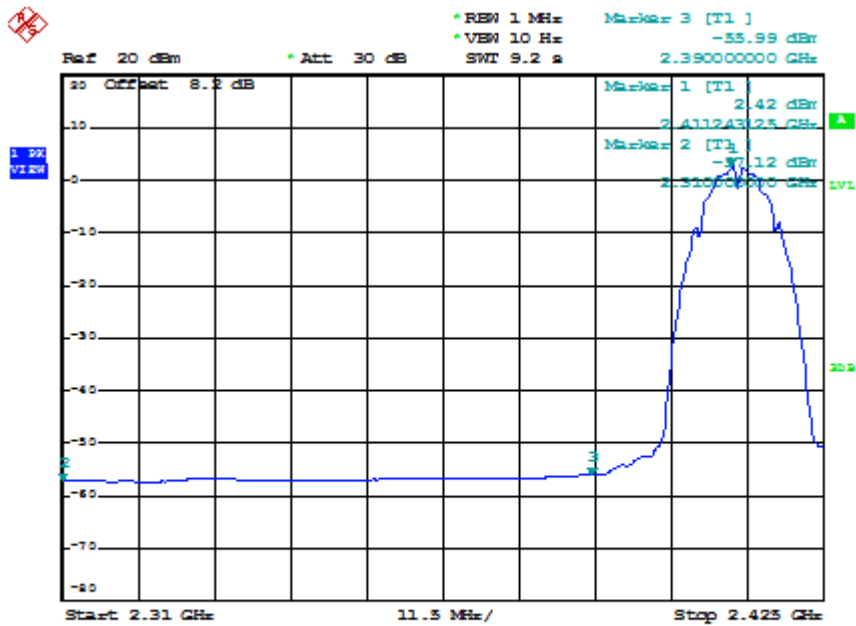
	2422	Ant1	2390.0	-45.15	3.0	0	53.08	PEAK	74	PASS
	2422	Ant1	2390.0	-54.61	3.0	0	43.62	AV	54	PASS
	2452	Ant1	2483.5	-40.79	3.0	0	57.44	PEAK	74	PASS
	2452	Ant1	2483.5	-51.69	3.0	0	46.54	AV	54	PASS
	2452	Ant1	2500.0	-45.48	3.0	0	52.75	PEAK	74	PASS
	2452	Ant1	2500.0	-55.41	3.0	0	42.82	AV	54	PASS

Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



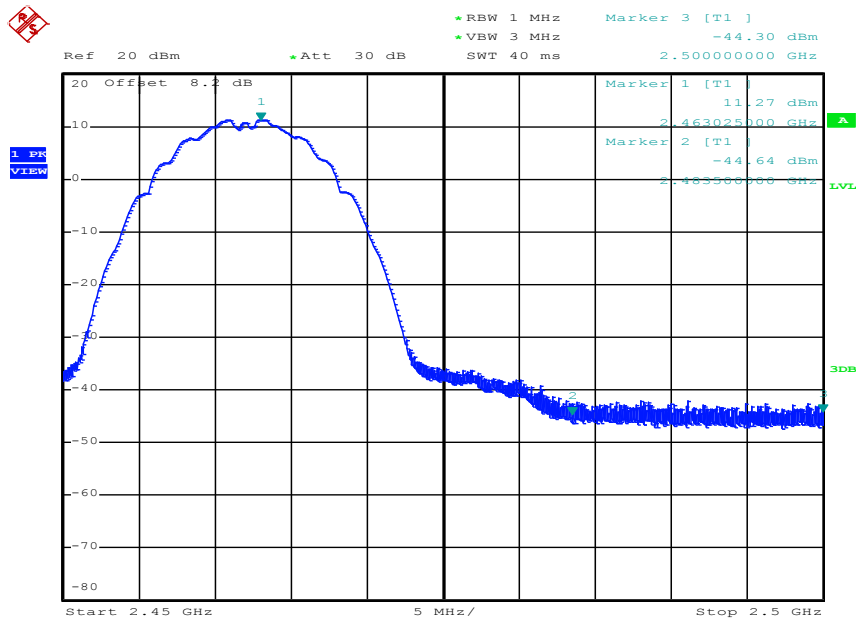
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Restrict-band band-edge measurements_11B_2412_Ant1_AV



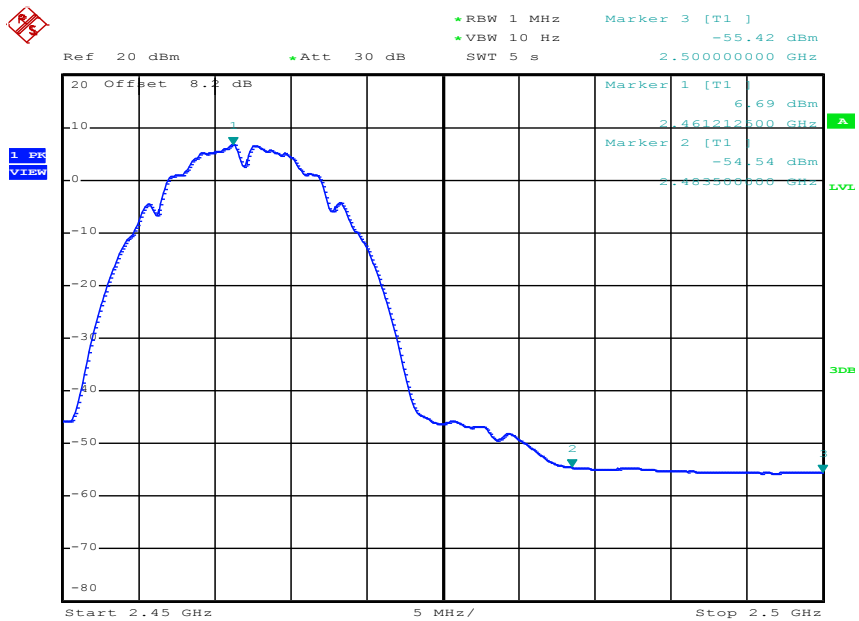
Date: 30.SEP.2019 18:08:36

Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



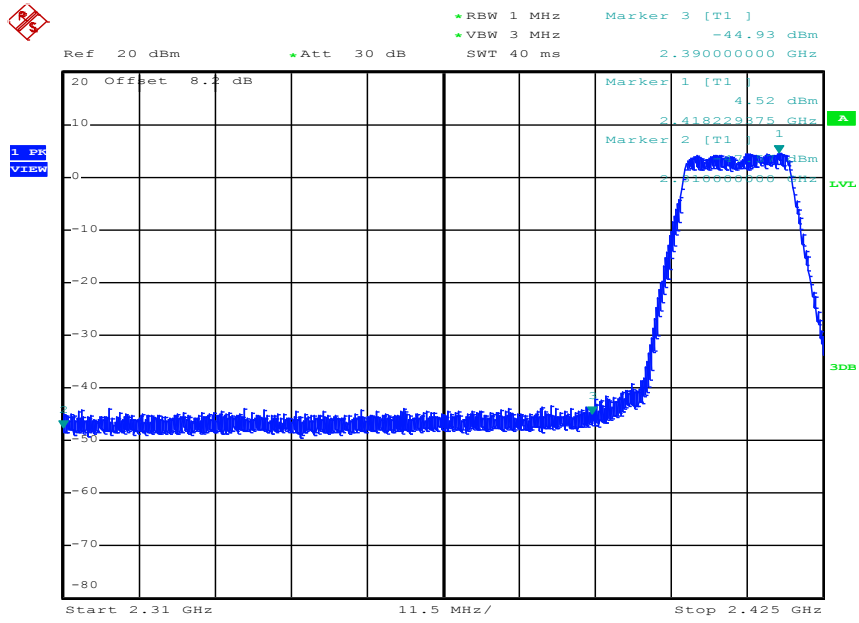
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Restrict-band band-edge measurements_11B_2462_Ant1_AV



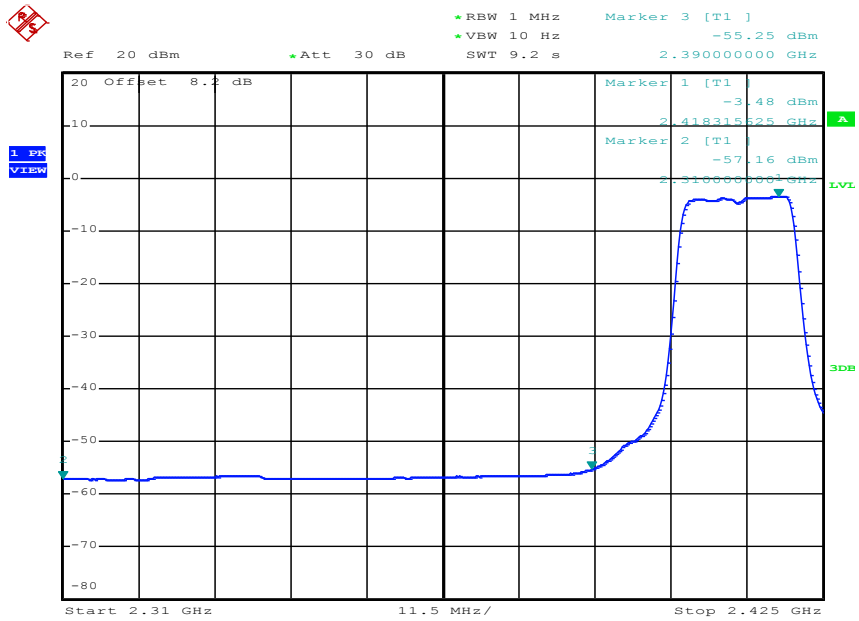
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Restrict-band band-edge measurements_11G_2412_Ant1_PEAK



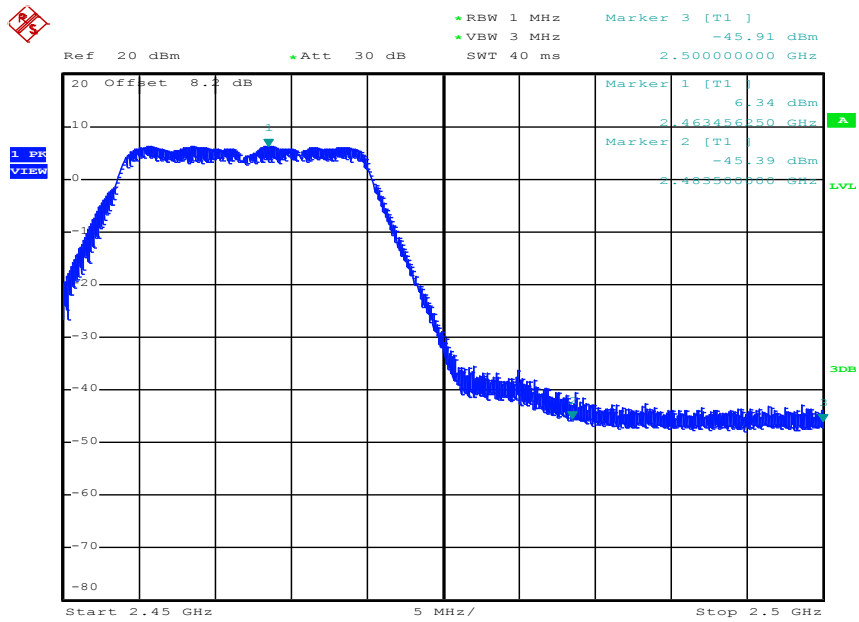
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Restrict-band band-edge measurements_11G_2412_Ant1_AV



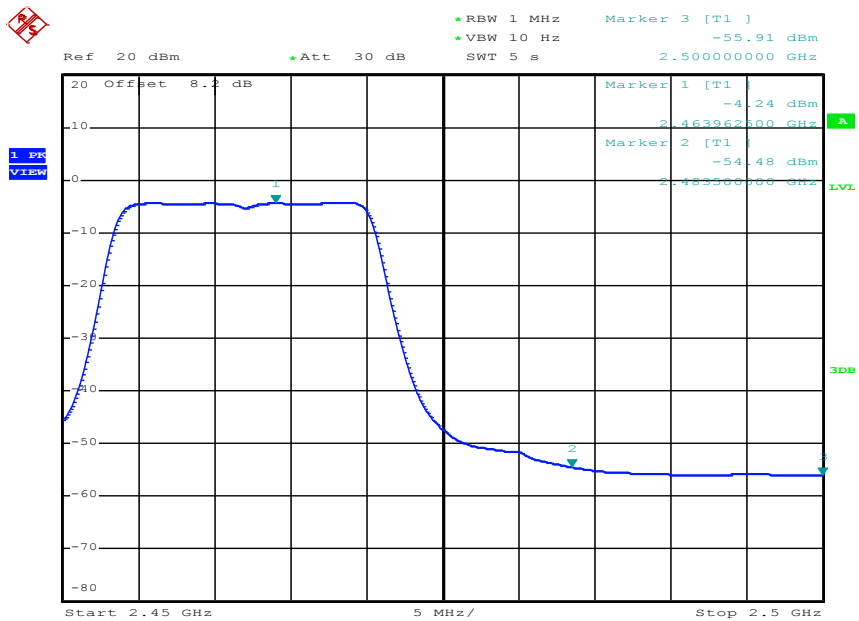
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Restrict-band band-edge measurements_11G_2462_Ant1_PEAK



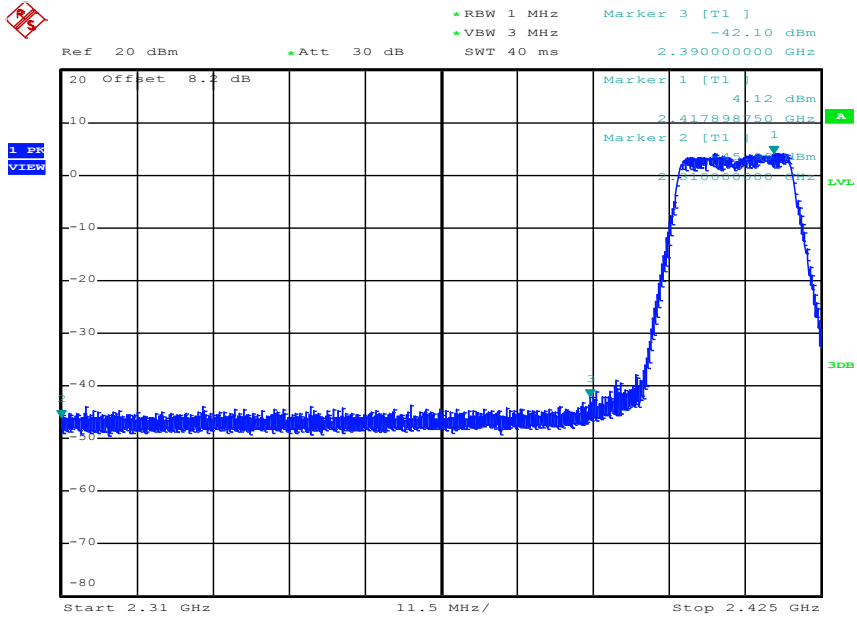
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Restrict-band band-edge measurements_11G_2462_Ant1_AV



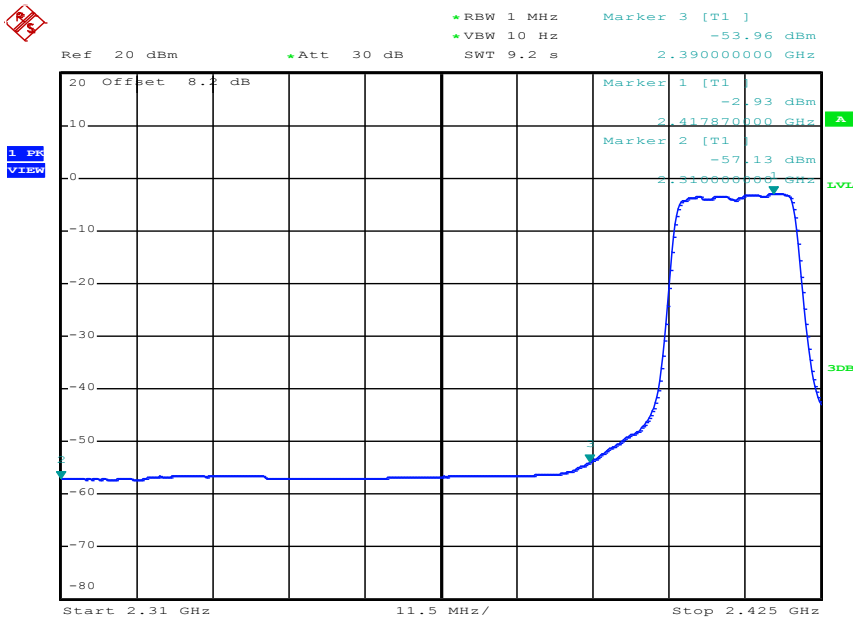
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Restrict-band band-edge measurements_11N20SISO_2412_Ant1_PEAK



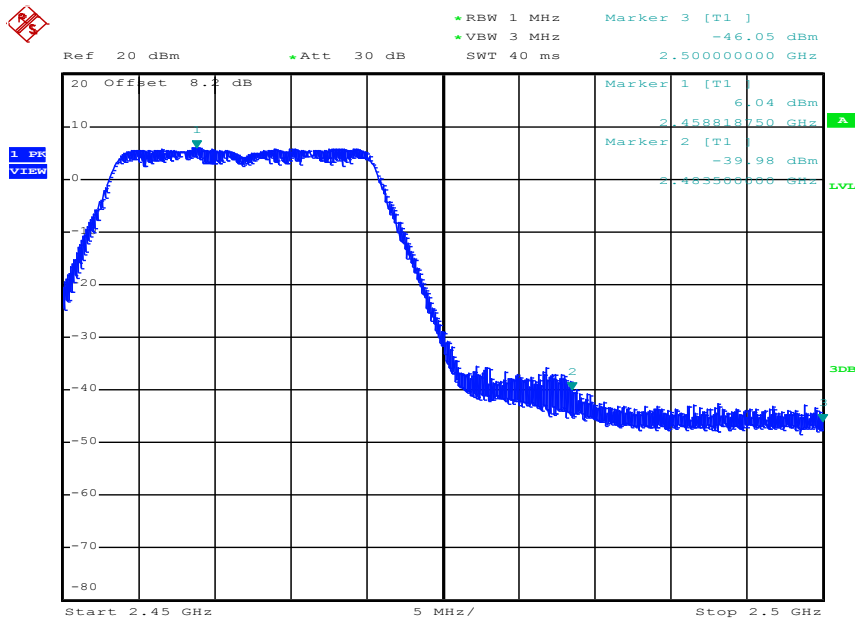
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Restrict-band band-edge measurements_11N20SISO_2412_Ant1_AV



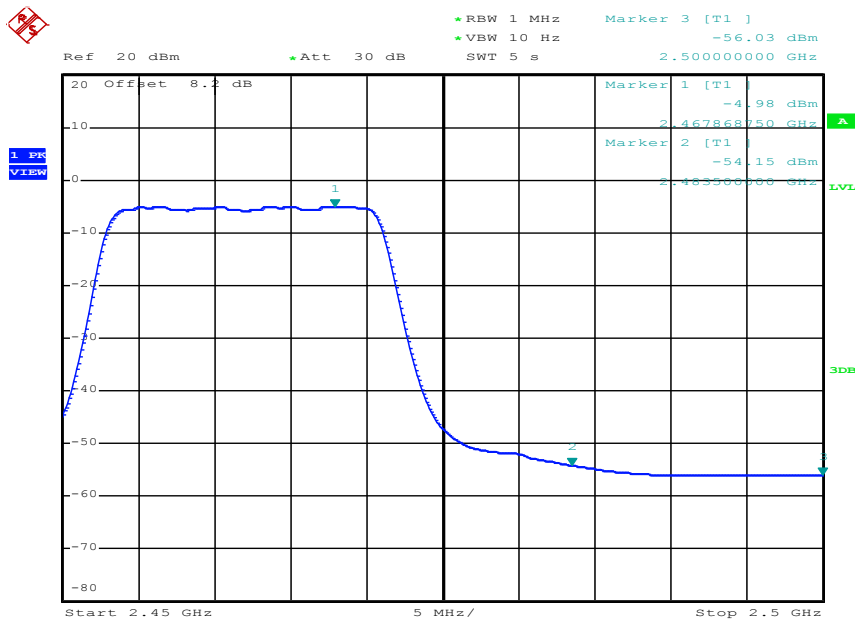
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Restrict-band band-edge measurements_11N20SISO_2462_Ant1_PEAK



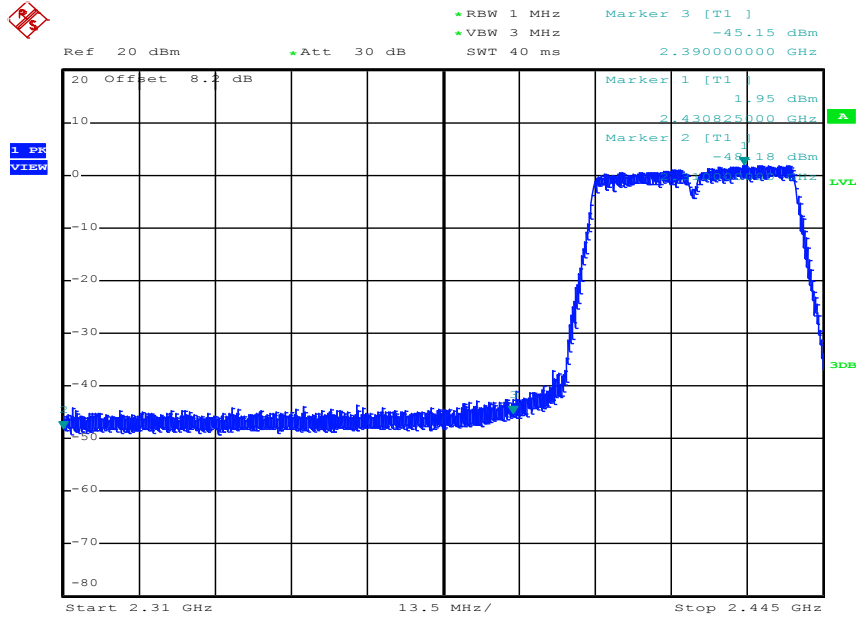
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Restrict-band band-edge measurements_11N20SISO_2462_Ant1_AV



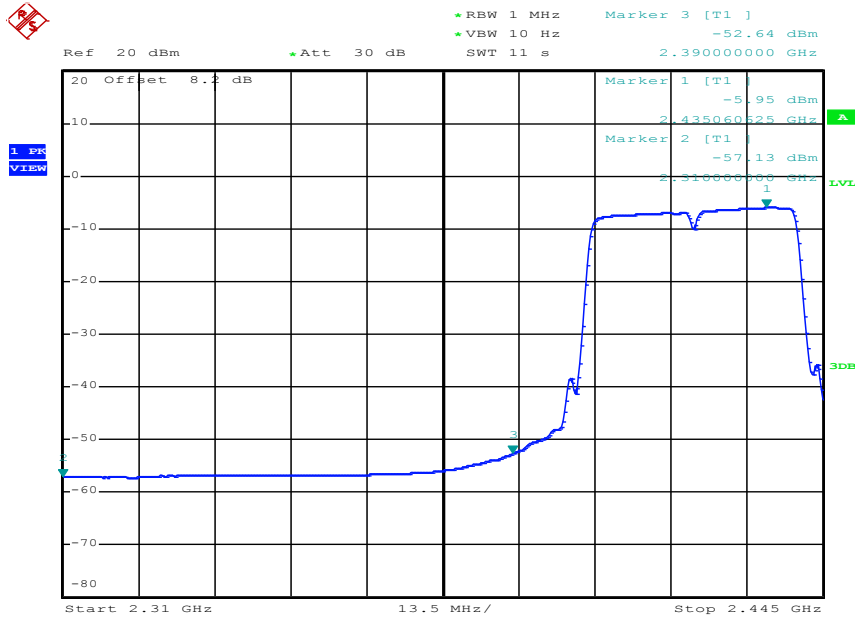
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Restrict-band band-edge measurements_11N40SISO_2422_Ant1_PEAK



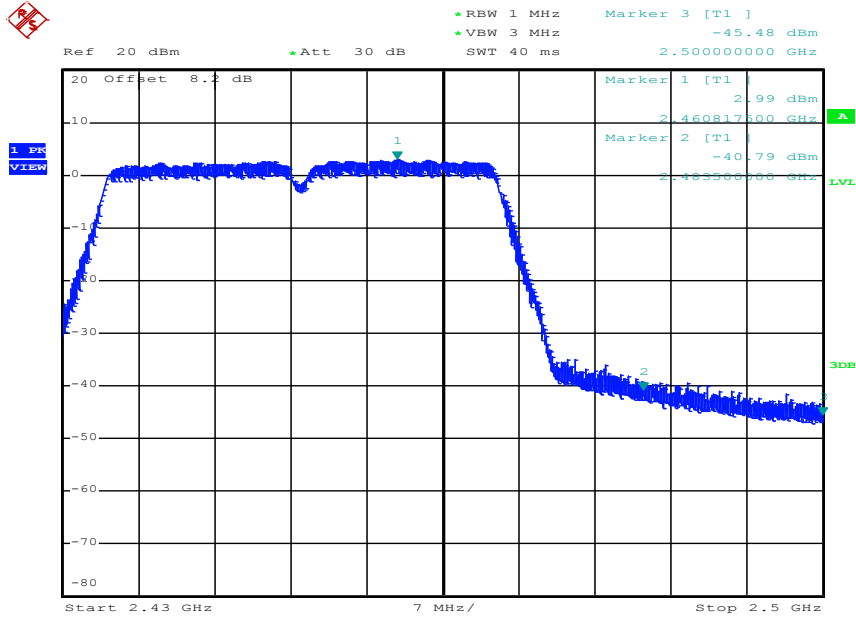
Date: 30.SEP.2019 15:08:53

Restrict-band band-edge measurements_11N40SISO_2422_Ant1_AV



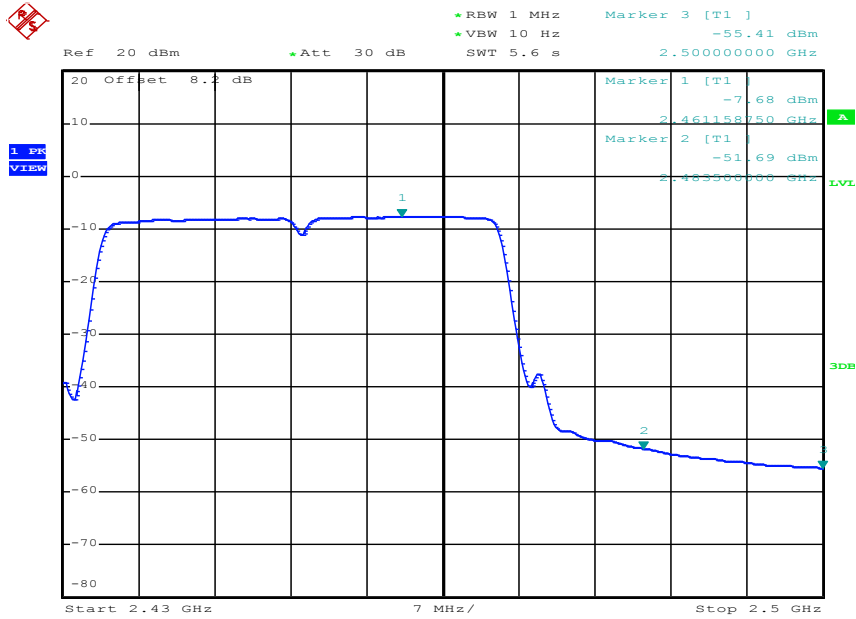
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Restrict-band band-edge measurements_11N40SISO_2452_Ant1_PEAK



Date: 30.SEP.2019 15:14:11

Restrict-band band-edge measurements_11N40SISO_2452_Ant1_AV



Date: 30.SEP.2019 15:14:26