

Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: IP Camera

Trade Mark: N/A

Test Model: LF-B1

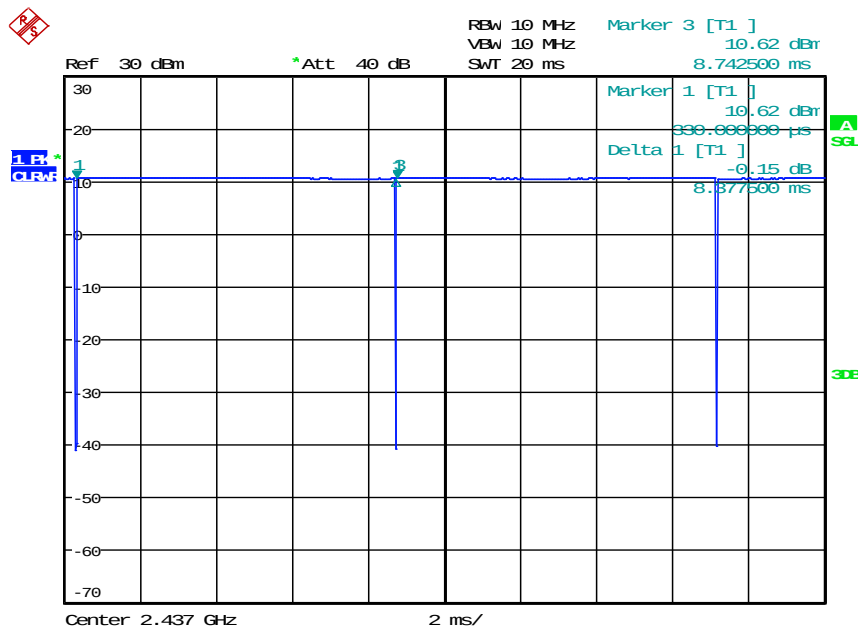
Environmental Conditions

Temperature:	25.1 ° C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	David Luo
Supervised by:	Wang.Chuang

C.1 Duty Cycle

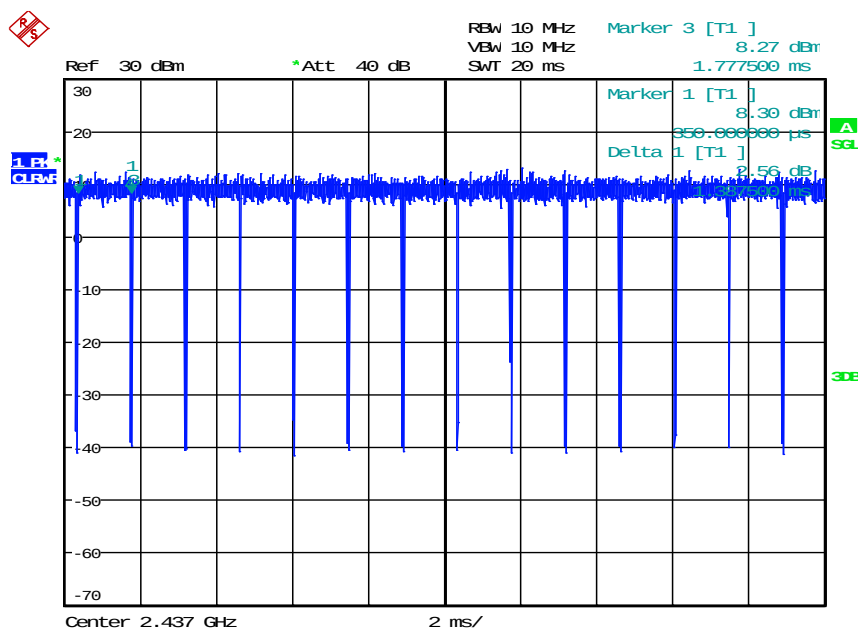
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	99.58	PASS
11G	2437	Ant1	97.2	PASS
11N20SISO	2437	Ant1	96.82	PASS

Duty Cycle_11B_2437_Ant1



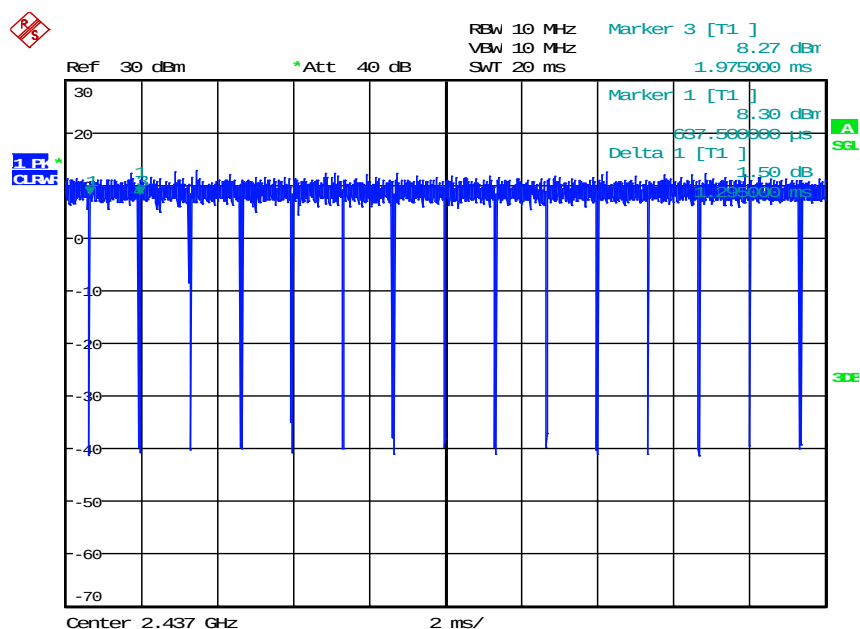
Date: 9.AUG.2019 12:37:53

Duty Cycle_11G_2437_Ant1



Date: 9.AUG.2019 12:38:20

Duty Cycle_11N20SISO_2437_Ant1



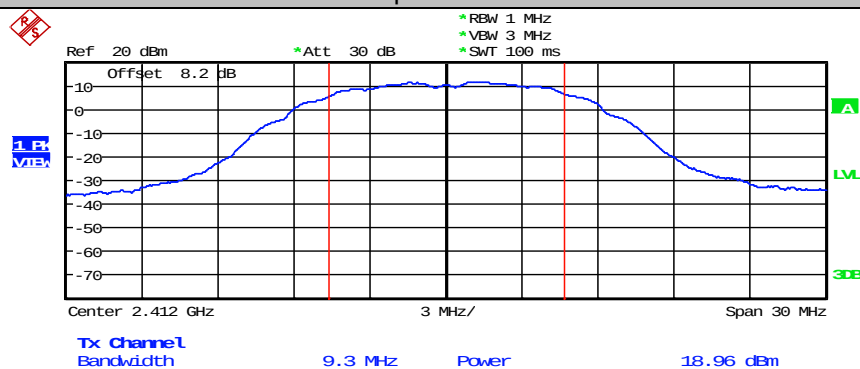
Date: 9.AUG.2019 12:39:00

C.2 Maximum Conducted Output Power

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	18.96	30	PASS
	MCH	19.06	30	PASS
	HCH	18.68	30	PASS
11G	LCH	22.62	30	PASS
	MCH	22.78	30	PASS
	HCH	22.08	30	PASS
11N20SISO	LCH	22.66	30	PASS
	MCH	22.89	30	PASS
	HCH	22.26	30	PASS

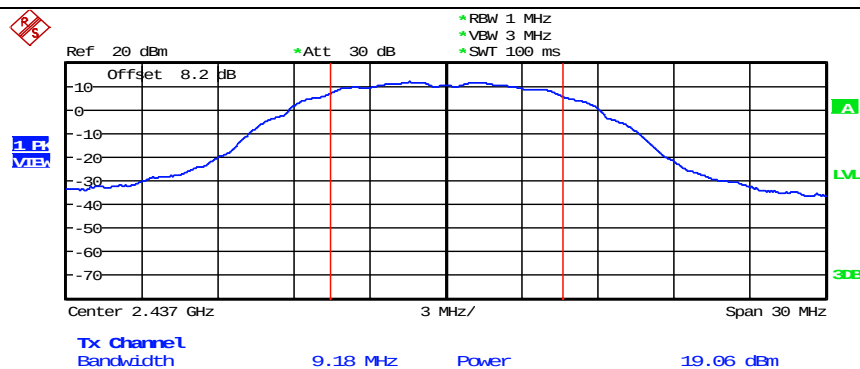
Test Graphs

11B/LCH



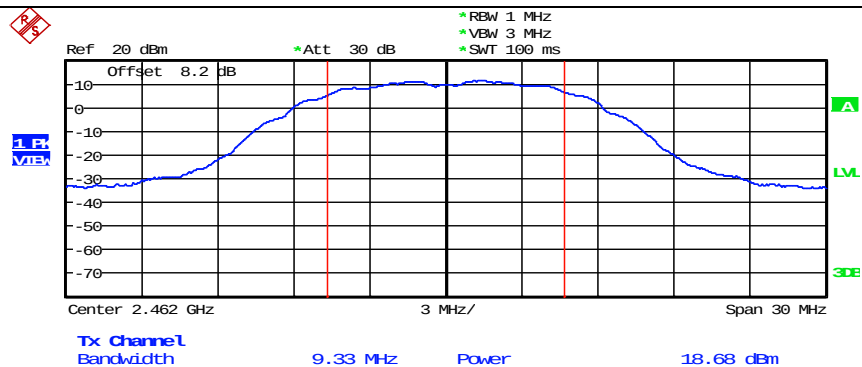
Date: 9.AUG.2019 12:14:05

11B/MCH



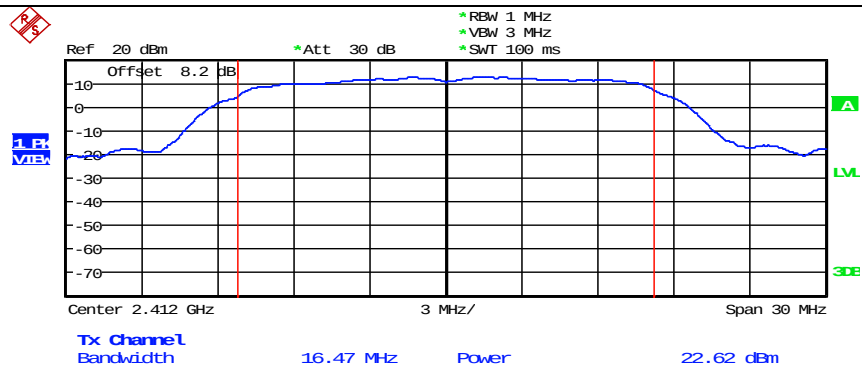
Date: 9.AUG.2019 12:16:57

11B/HCH



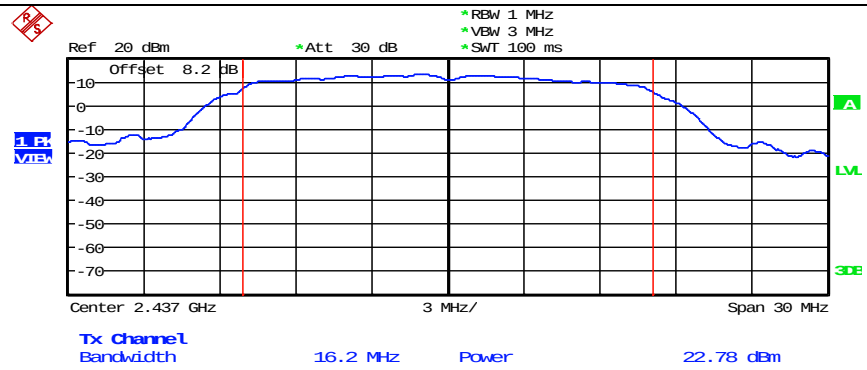
Date: 9.AUG.2019 12:19:09

11G/LCH



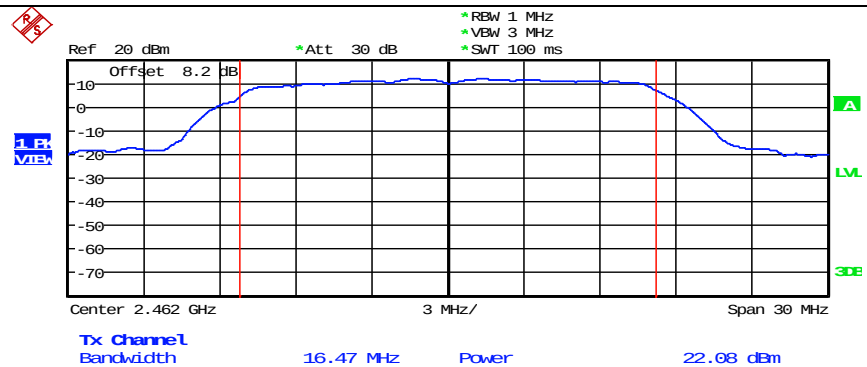
Date: 9.AUG.2019 12:21:49

11G/MCH



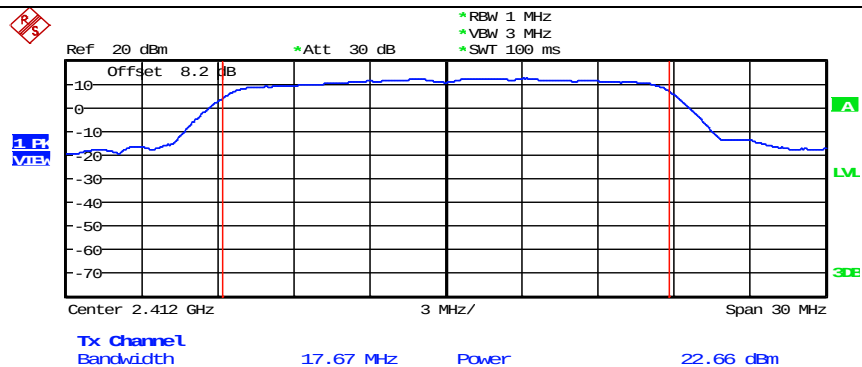
Date: 9.AUG.2019 12:24:41

11G/HCH



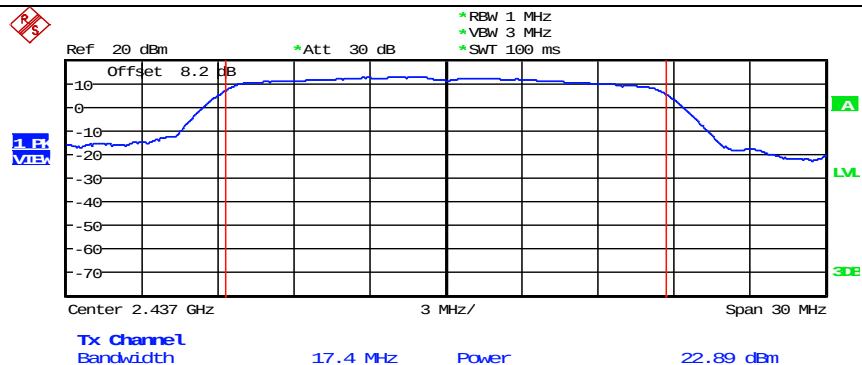
Date: 9.AUG.2019 12:26:35

11N20SISO/LCH



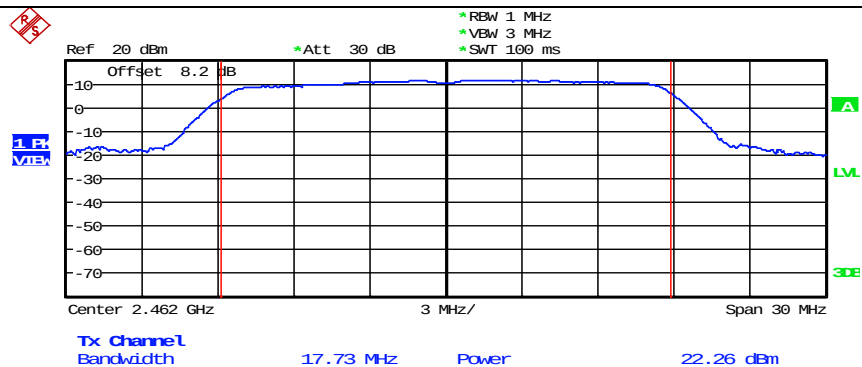
Date: 9.AUG.2019 12:30:06

11N20SISO/MCH



Date: 9.AUG.2019 12:32:42

11N20SISO/HCH



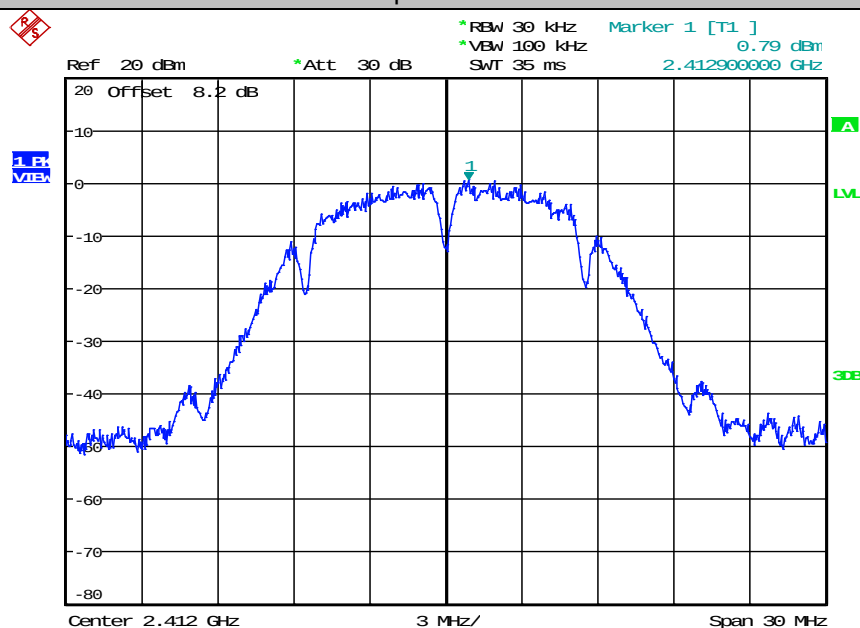
Date: 9.AUG.2019 12:34:39

C.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	0.790	8	PASS
	MCH	0.760	8	PASS
	HCH	0.670	8	PASS
11G	LCH	-1.000	8	PASS
	MCH	-0.390	8	PASS
	HCH	-1.420	8	PASS
11N20SISO	LCH	-0.090	8	PASS
	MCH	0.220	8	PASS
	HCH	-0.750	8	PASS

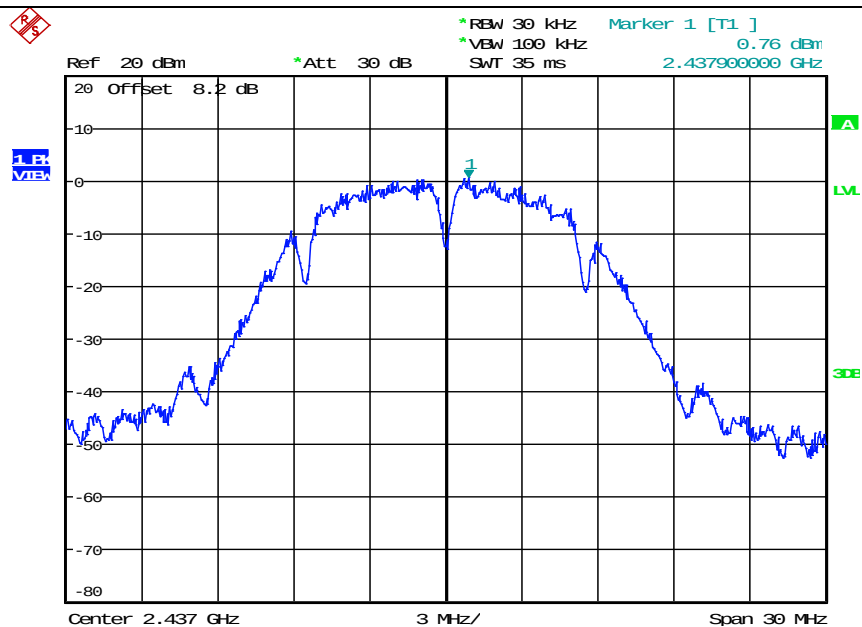
Test Graphs

11B/LCH



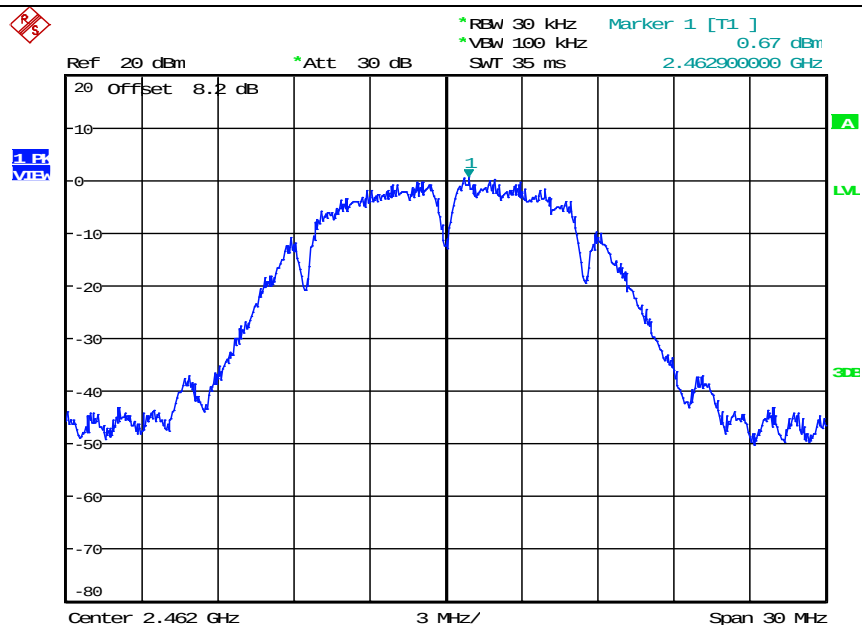
Date: 9.AUG.2019 12:14:18

11B/MCH



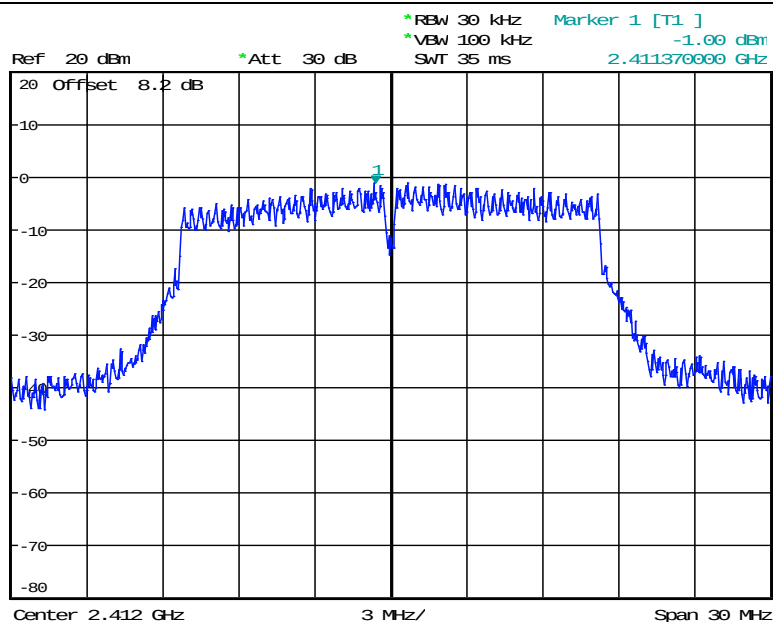
Date: 9.AUG.2019 12:17:10

11B/HCH



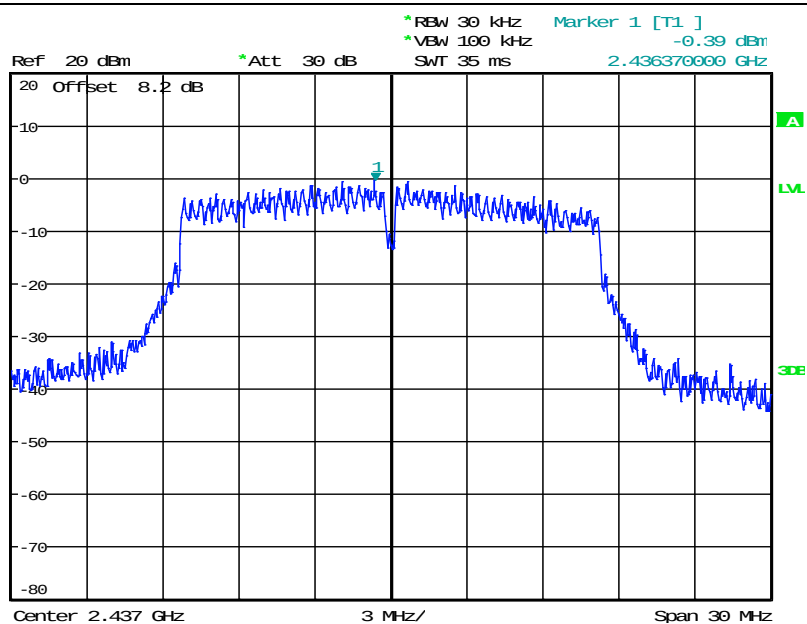
Date: 9.AUG.2019 12:19:21

11G/LCH

1 F.
VIEW

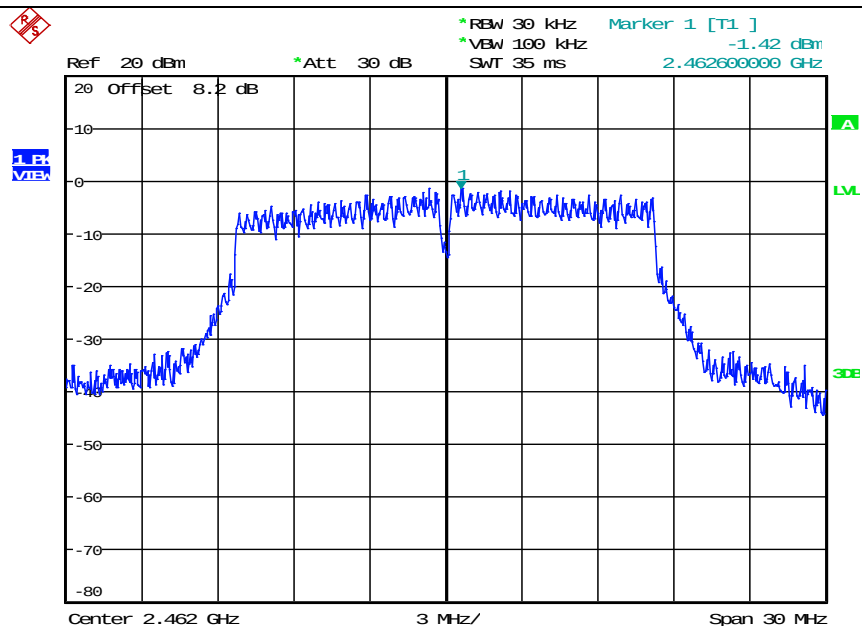
Date: 9.AUG.2019 12:22:02

11G/MCH

1 F.
VIEW

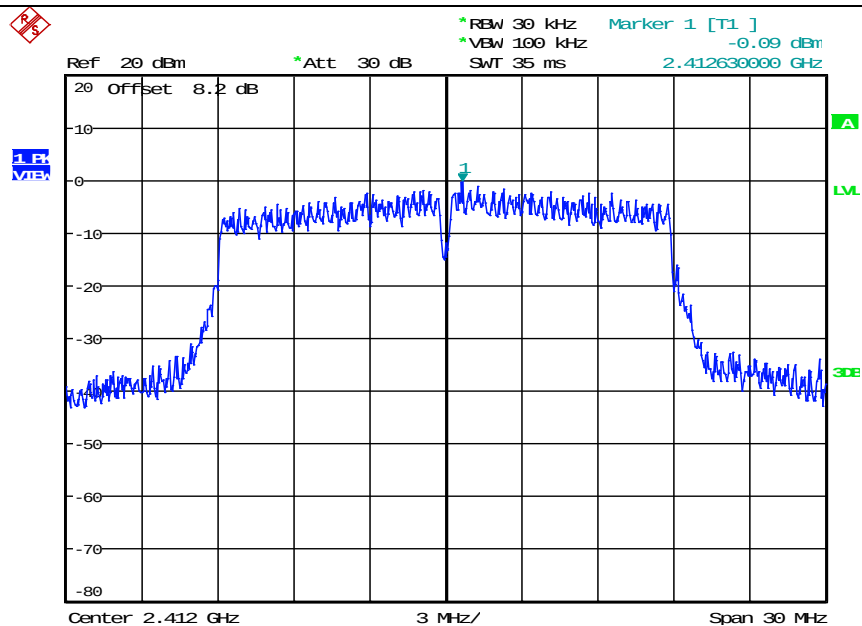
Date: 9.AUG.2019 12:24:54

11G/HCH



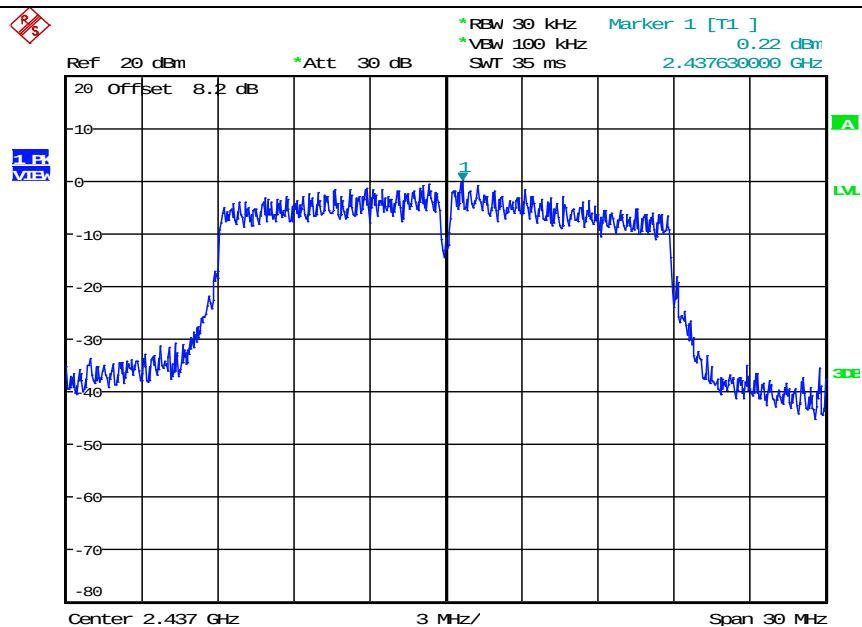
Date: 9.AUG.2019 12:26:47

11N20SISO/LCH



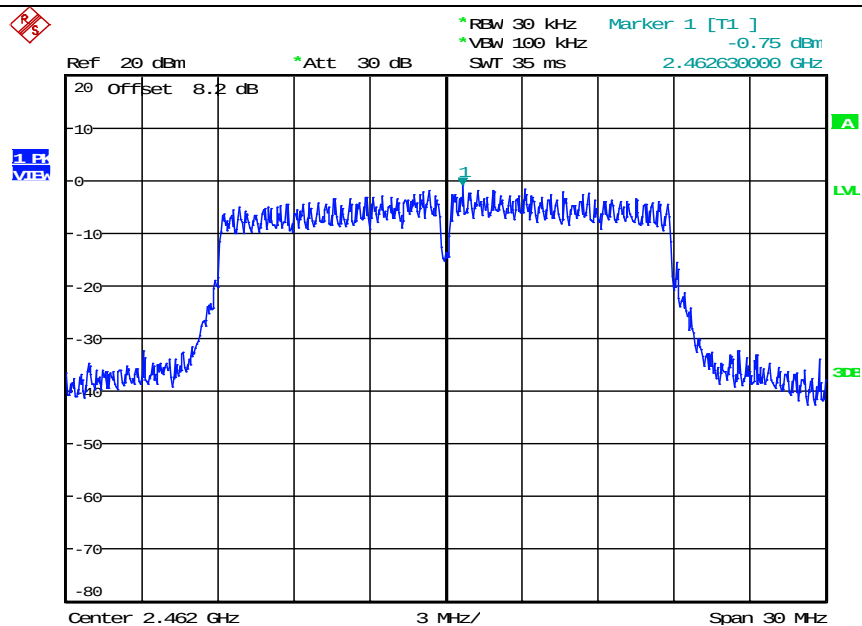
Date: 9.AUG.2019 12:30:19

11N20SISO/MCH



Date: 9.AUG.2019 12:32:54

11N20SISO/HCH



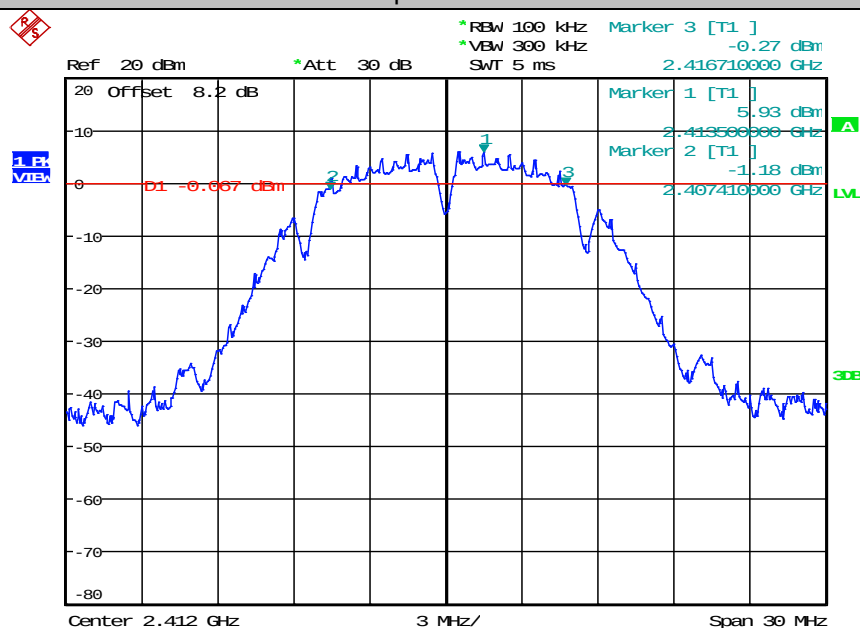
Date: 9.AUG.2019 12:34:52

C.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.300	≥ 0.5	PASS
	MCH	9.180	≥ 0.5	PASS
	HCH	9.330	≥ 0.5	PASS
11G	LCH	16.470	≥ 0.5	PASS
	MCH	16.200	≥ 0.5	PASS
	HCH	16.470	≥ 0.5	PASS
11N20SISO	LCH	17.670	≥ 0.5	PASS
	MCH	17.400	≥ 0.5	PASS
	HCH	17.730	≥ 0.5	PASS

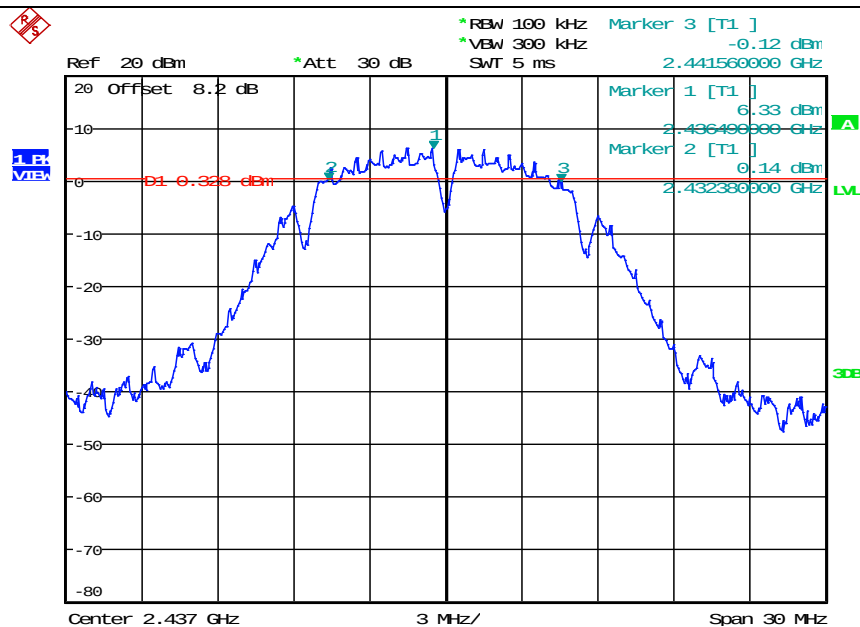
Test Graphs

11B/LCH



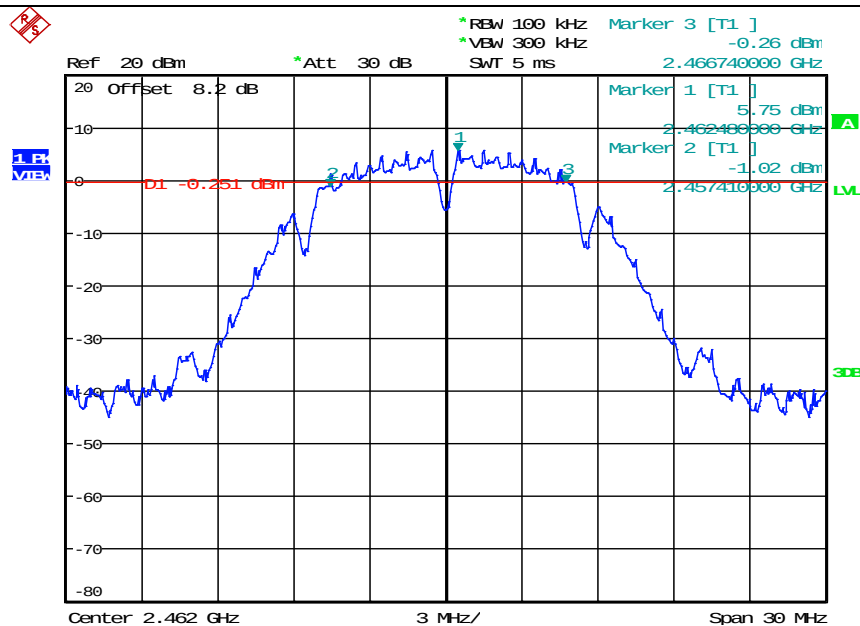
Date: 9.AUG.2019 12:13:31

11B/MCH



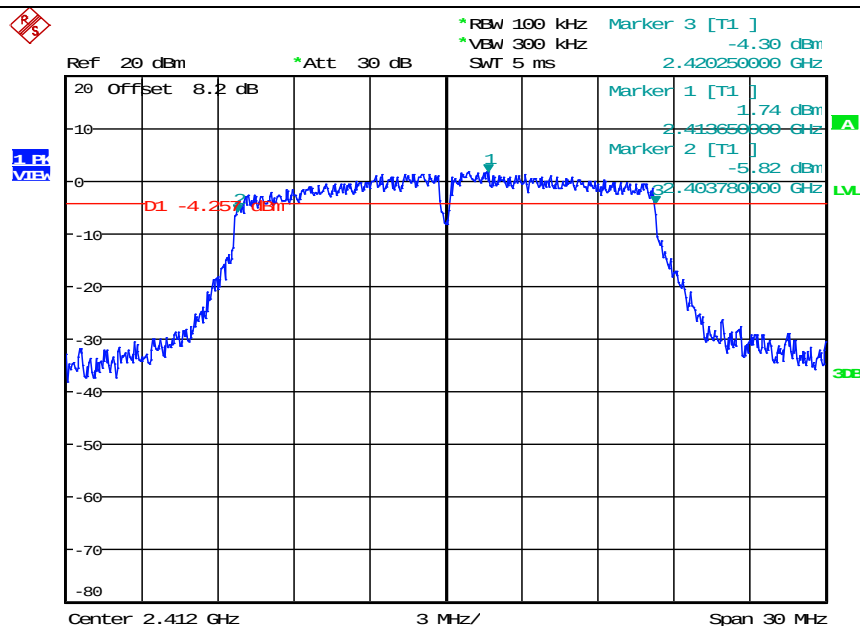
Date: 9.AUG.2019 12:16:23

11B/HCH



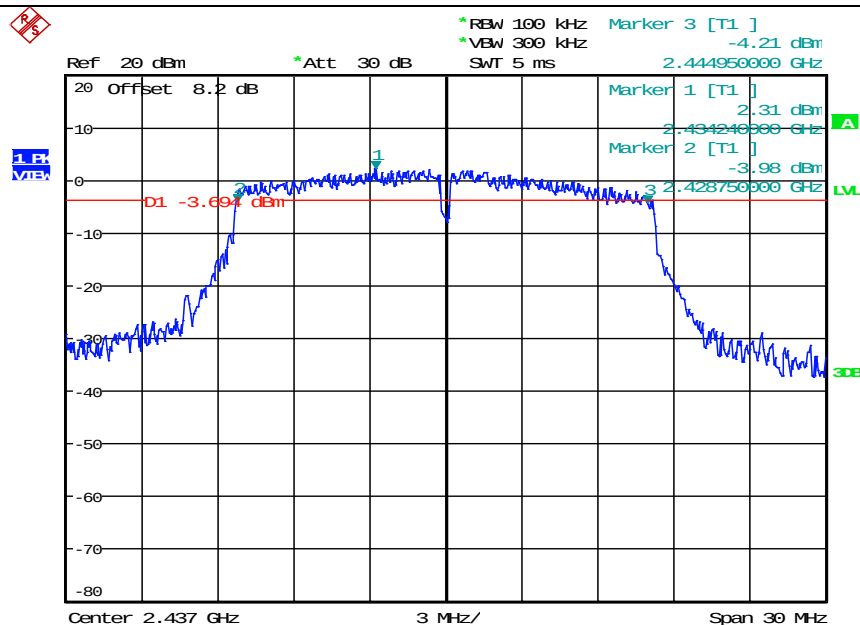
Date: 9.AUG.2019 12:18:34

11G/LCH



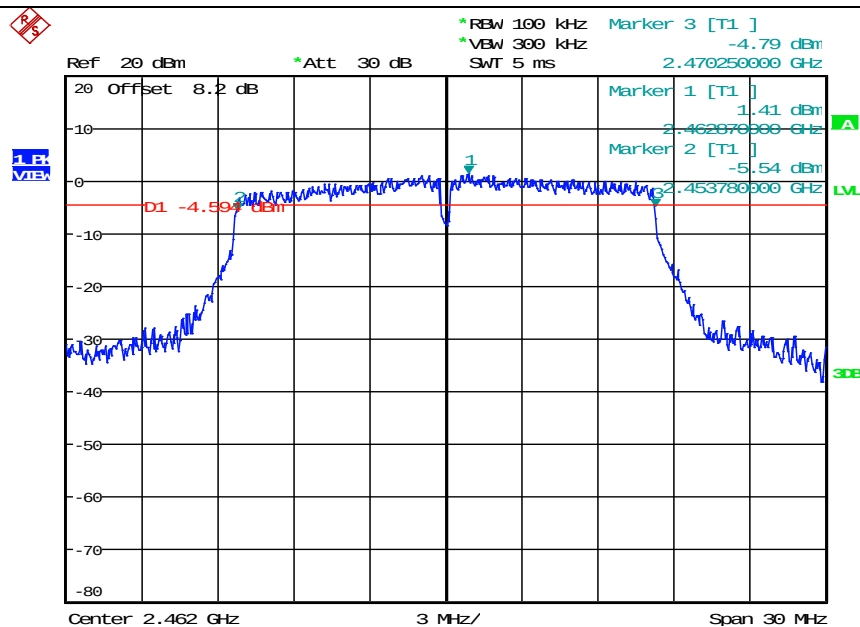
Date: 9.AUG.2019 12:21:15

11G/MCH



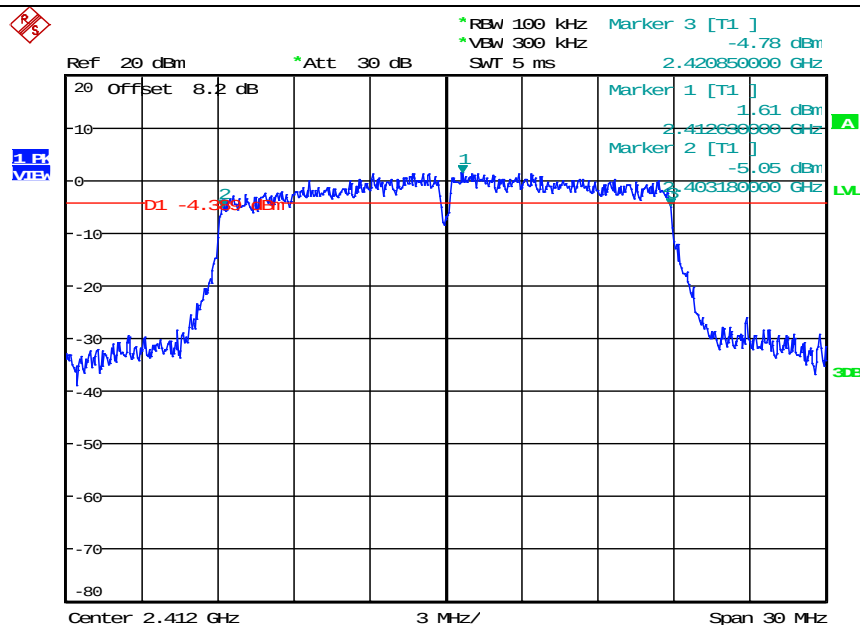
Date: 9.AUG.2019 12:24:07

11G/HCH



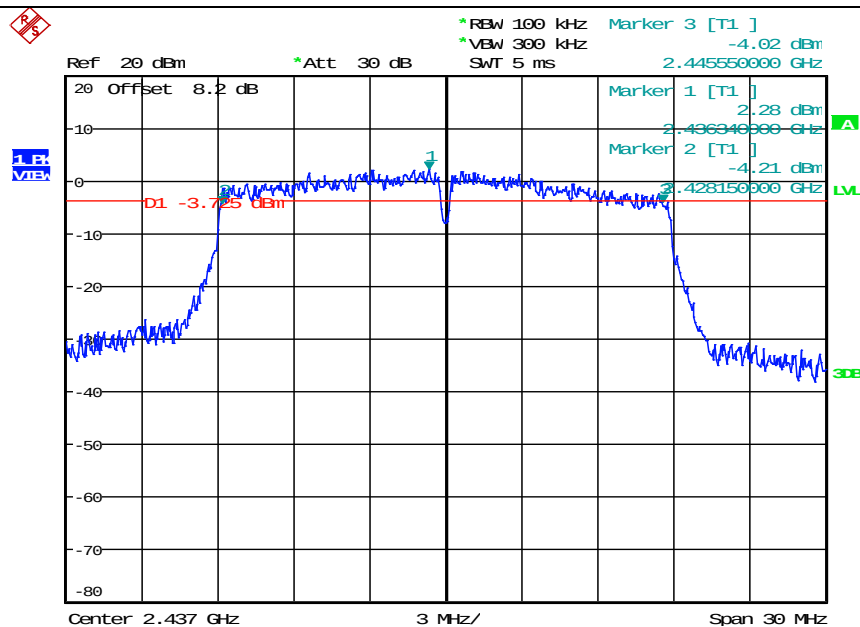
Date: 9.AUG.2019 12:26:00

11N20SISO/LCH



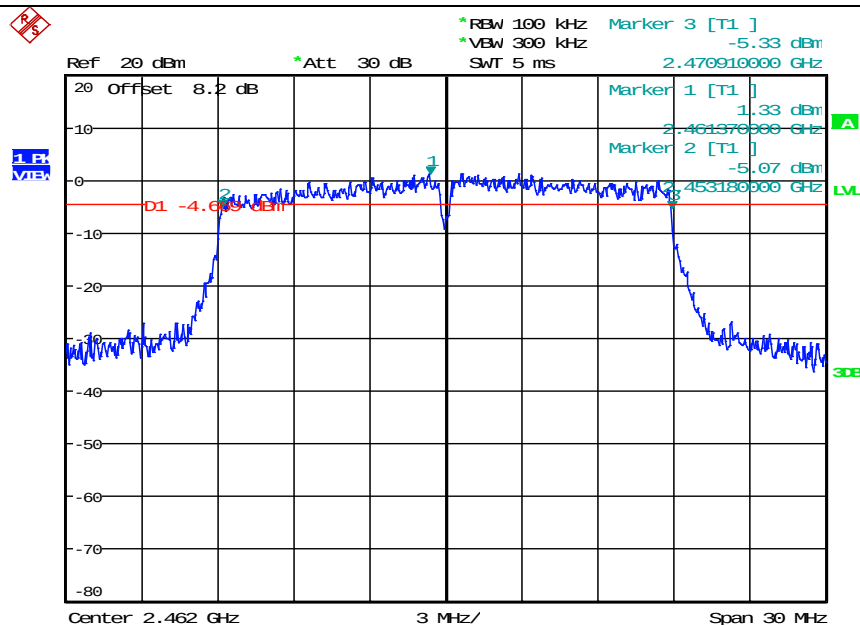
Date: 9.AUG.2019 12:29:32

11N20SISO/MCH



Date: 9.AUG.2019 12:32:07

11N20SISO/HCH



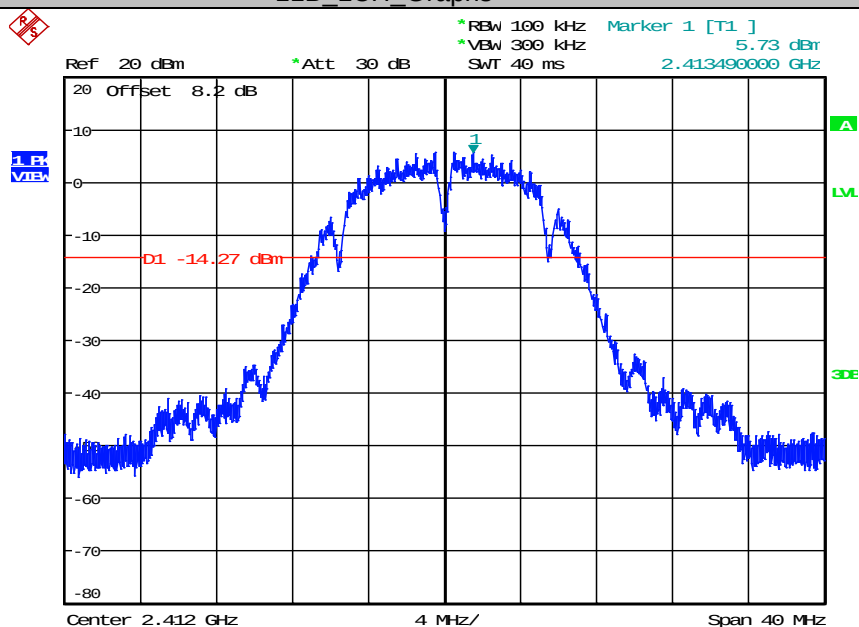
Date: 9.AUG.2019 12:34:05

C.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	5.73	-30.970	-14.270	PASS
	MCH	6.21	-31.550	-13.790	PASS
	HCH	5.53	-32.740	-14.470	PASS
11G	LCH	2.45	-32.370	-17.550	PASS
	MCH	3.81	-32.040	-16.190	PASS
	HCH	3.39	-32.300	-16.610	PASS
11N20 SISO	LCH	1.79	-31.660	-18.210	PASS
	MCH	3.56	-32.660	-16.440	PASS
	HCH	3.12	-31.240	-16.880	PASS

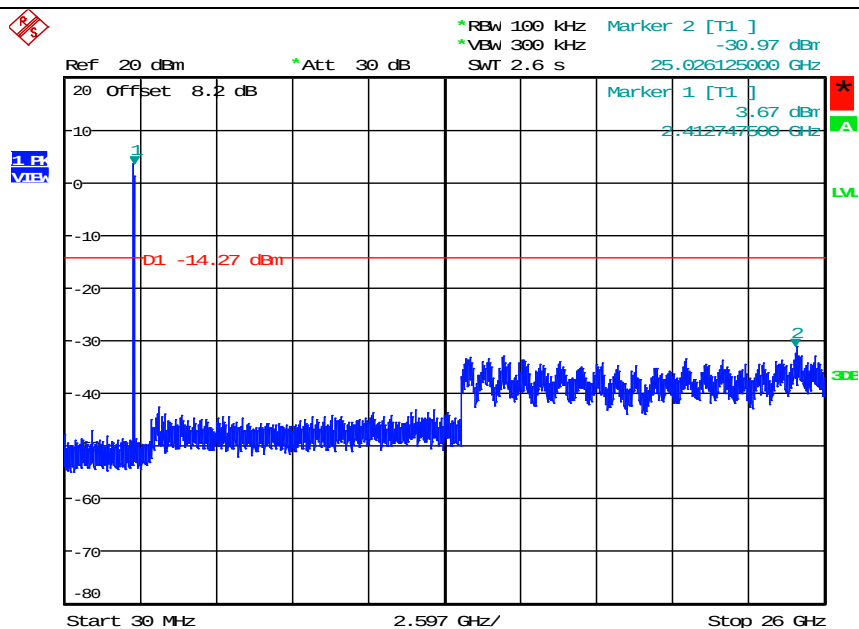
11B_LCH_Graphs

Pref/11B/LCH



Date: 9.AUG.2019 12:57:35

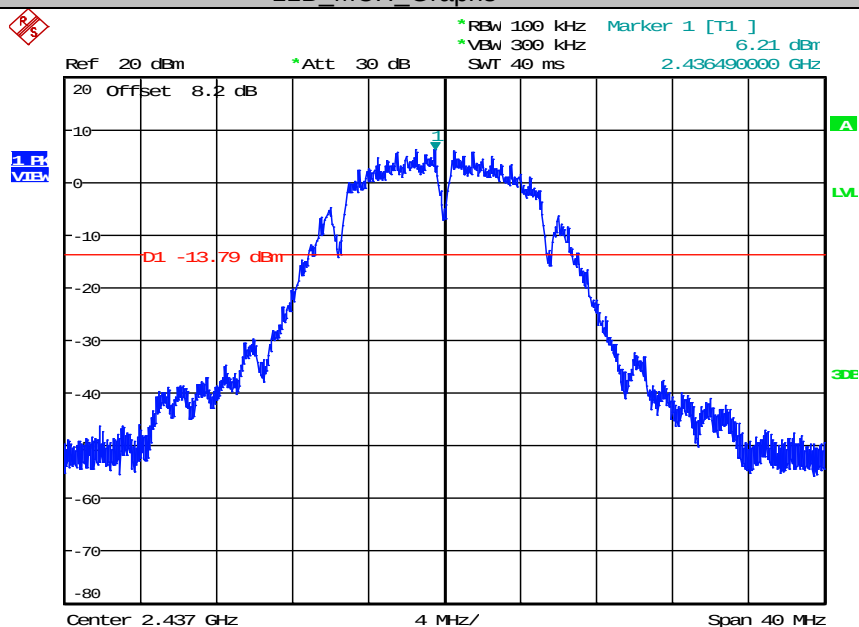
Puw/11B/LCH



Date: 9.AUG.2019 12:57:53

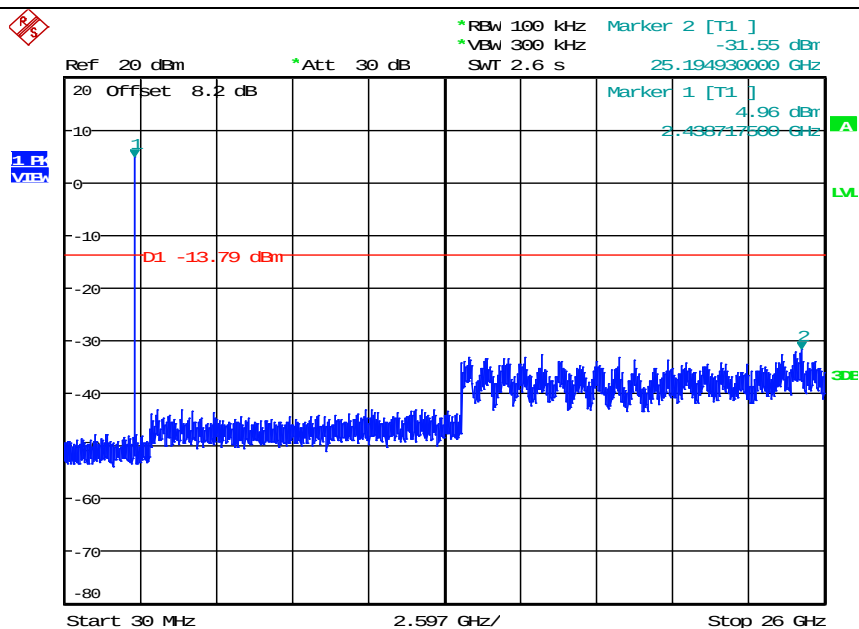
11B_MCH_Graphs

Pref/11B/MCH



Date: 9.AUG.2019 12:59:15

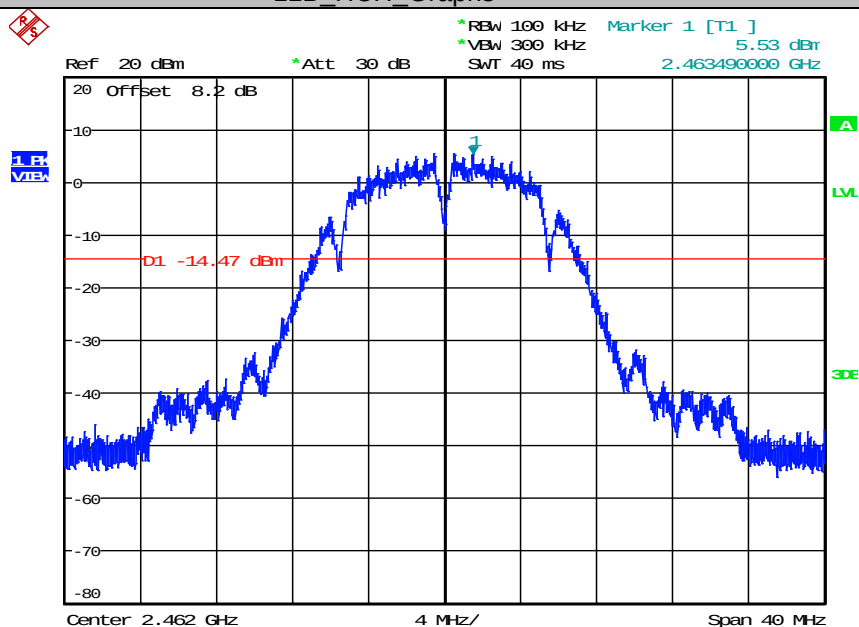
Puw/11B/MCH



Date: 9.AUG.2019 12:59:30

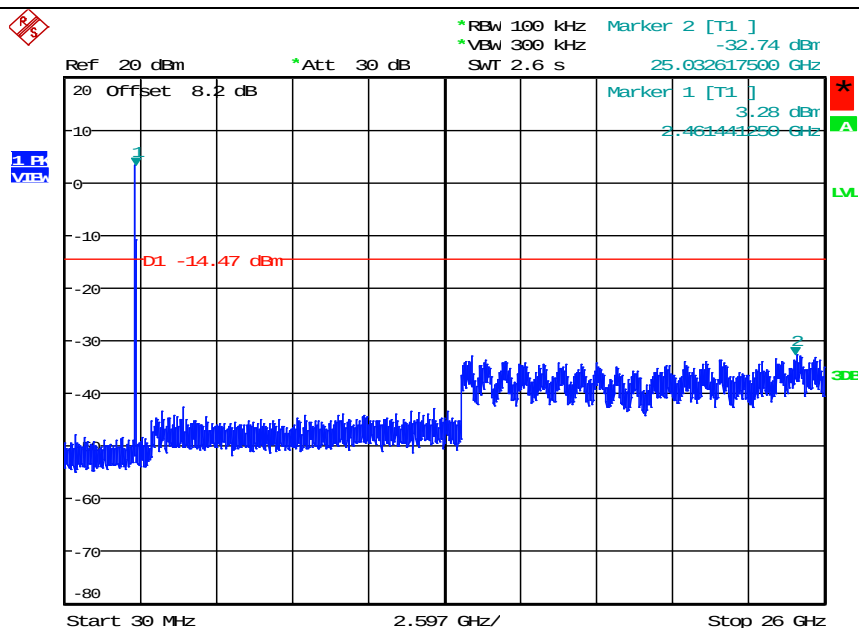
11B_HCH_Graphs

Pref/11B/HCH



Date: 9.AUG.2019 12:59:57

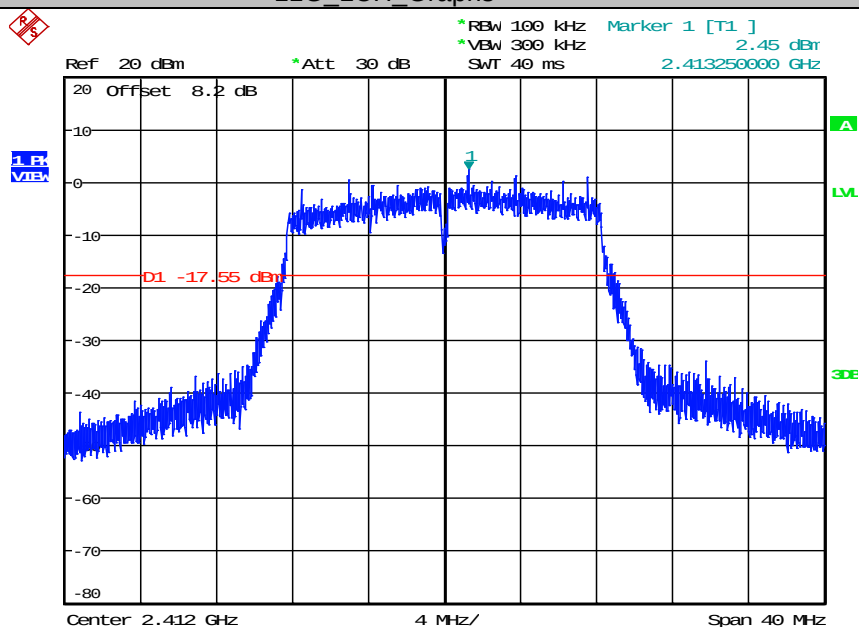
Puw/11B/HCH



Date: 9.AUG.2019 13:00:18

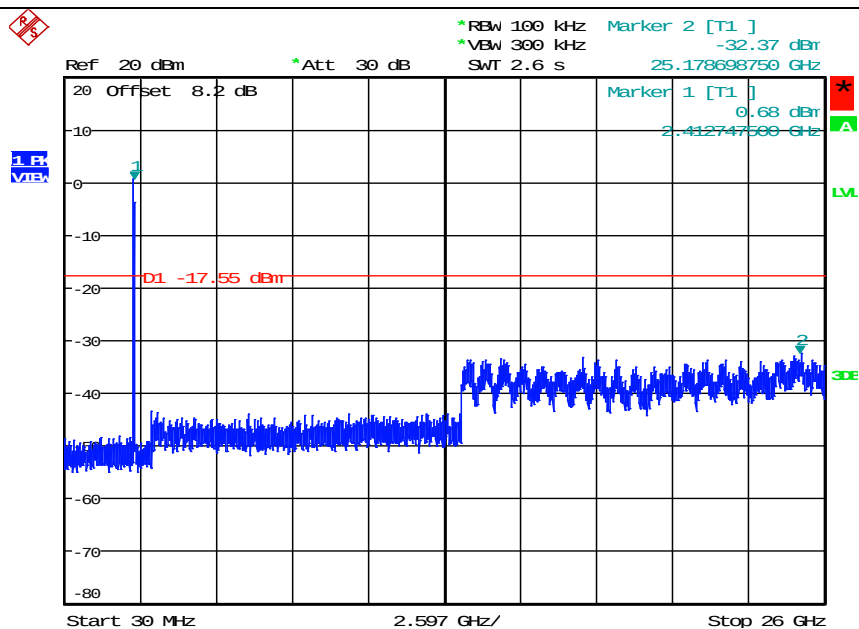
11G_LCH_Graphs

Pref/11G/LCH



Date: 9.AUG.2019 13:00:44

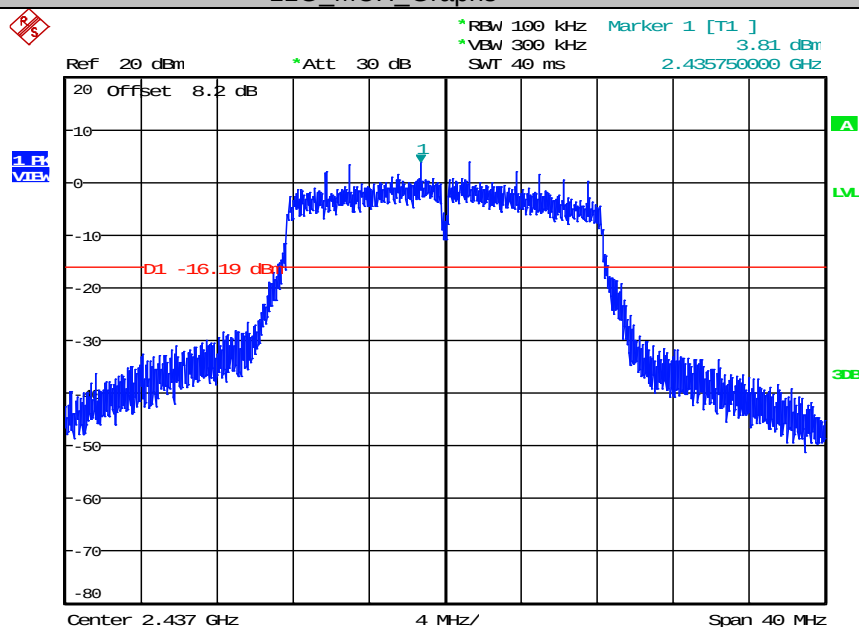
Puw/11G/LCH



Date: 9.AUG.2019 13:01:00

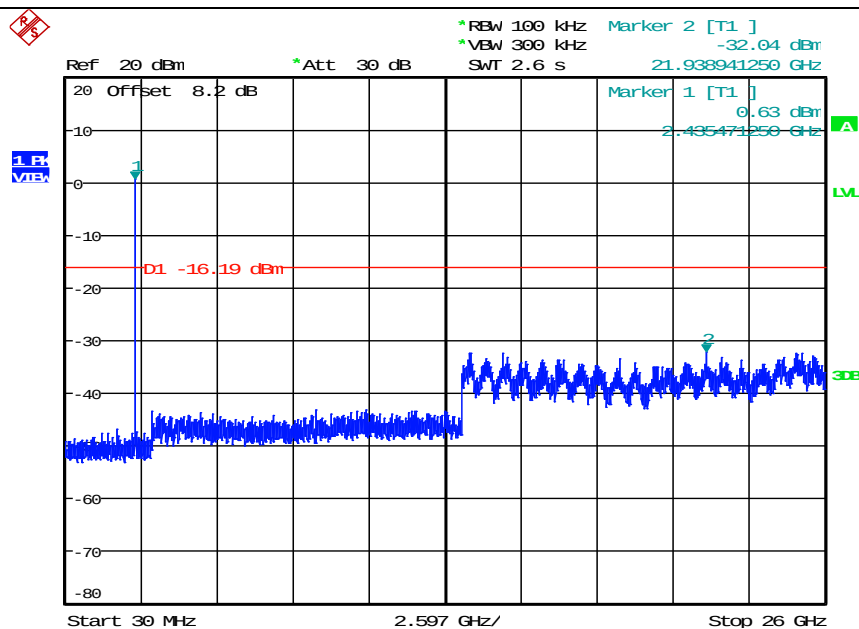
11G_MCH_Graphs

Pref/11G/MCH



Date: 9.AUG.2019 13:02:01

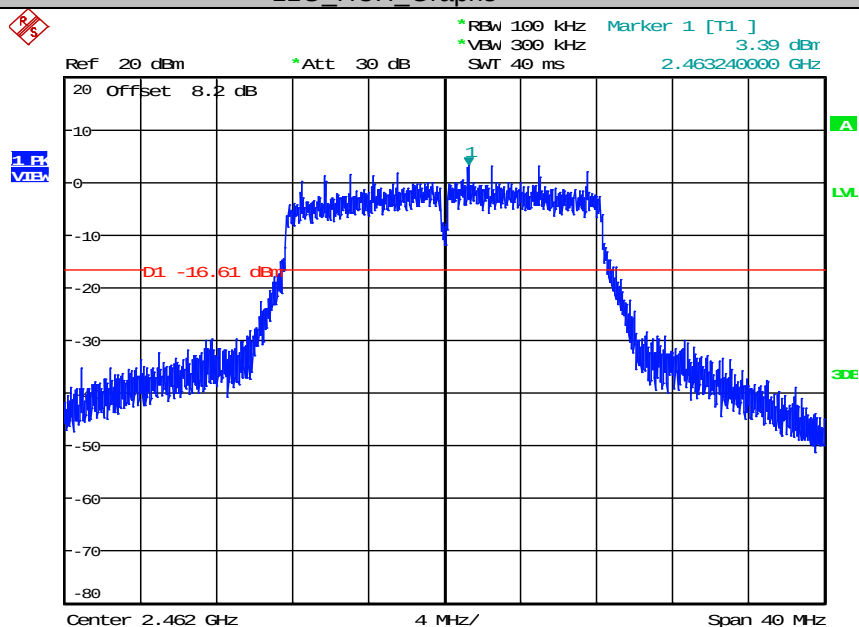
Puw/11G/MCH



Date: 9.AUG.2019 13:02:21

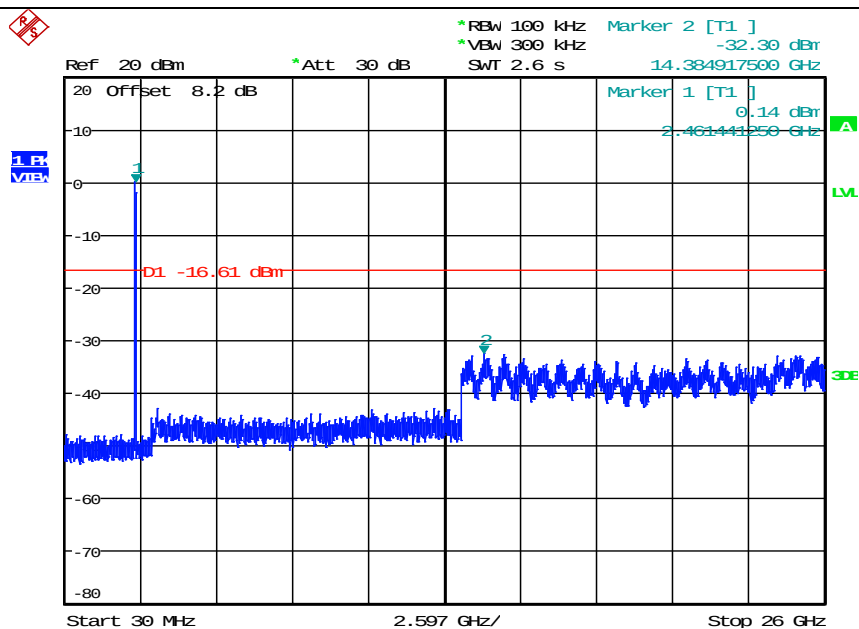
11G_HCH_Graphs

Pref/11G/HCH



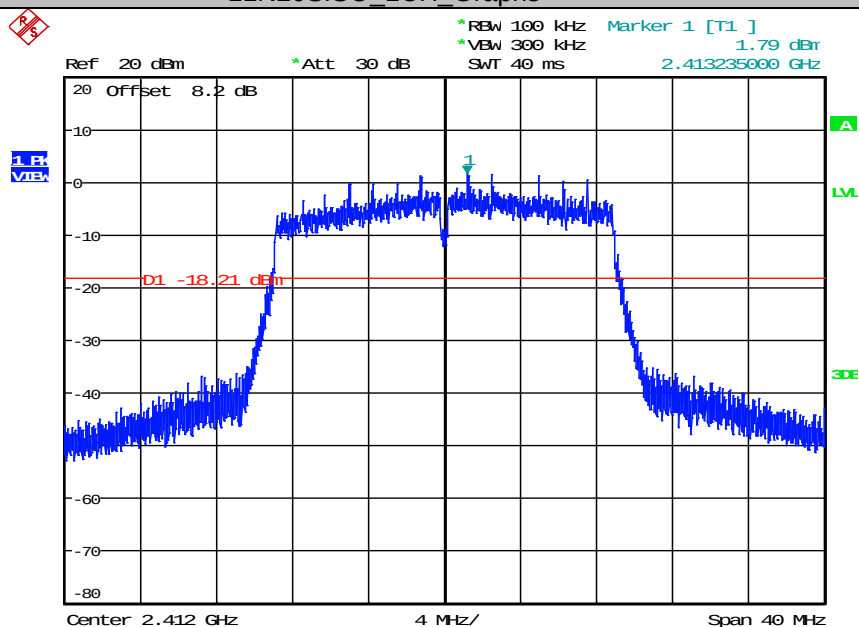
Date: 9.AUG.2019 13:02:56

Puw/11G/HCH

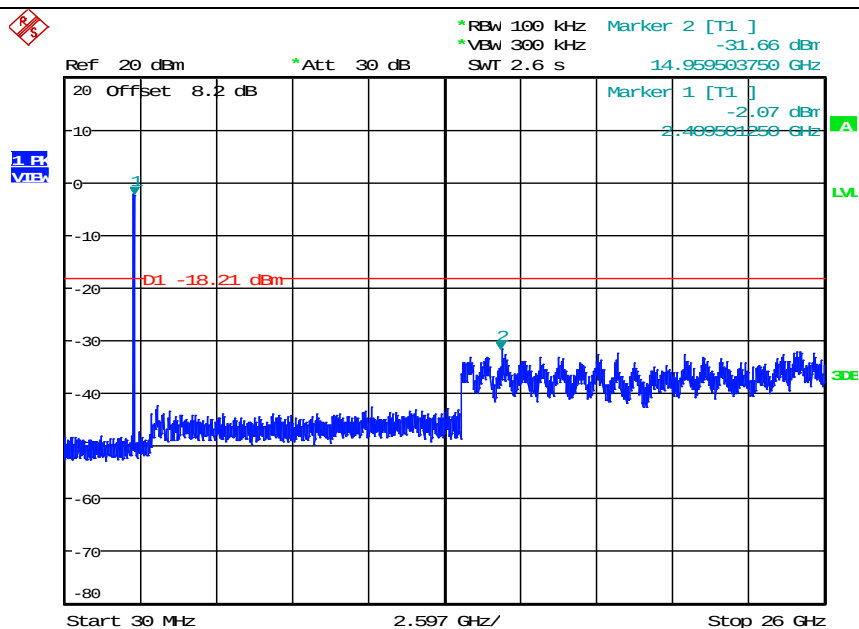


Date: 9.AUG.2019 13:03:15

11N20SISO LCH Graphs

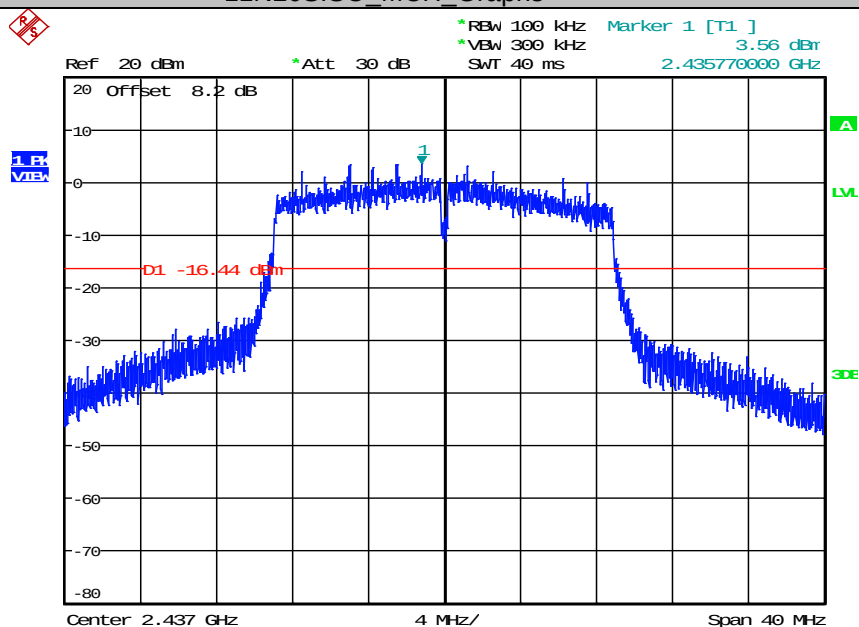
Pref/11N20SIS
O/LCH

Date: 9.AUG.2019 13:03:43

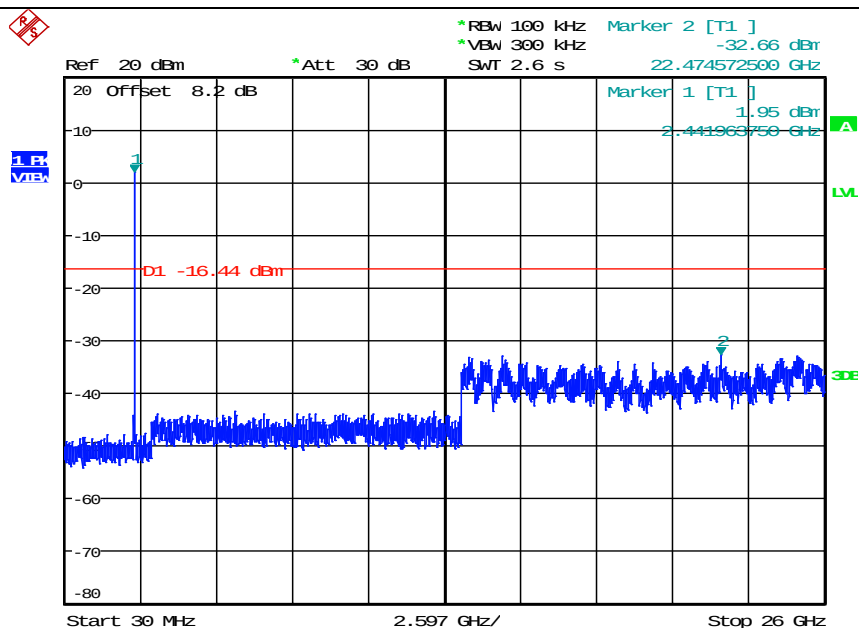
Puw/11N20
SISO/LCH

Date: 9.AUG.2019 13:04:07

11N20SISO_MCH_Graphs

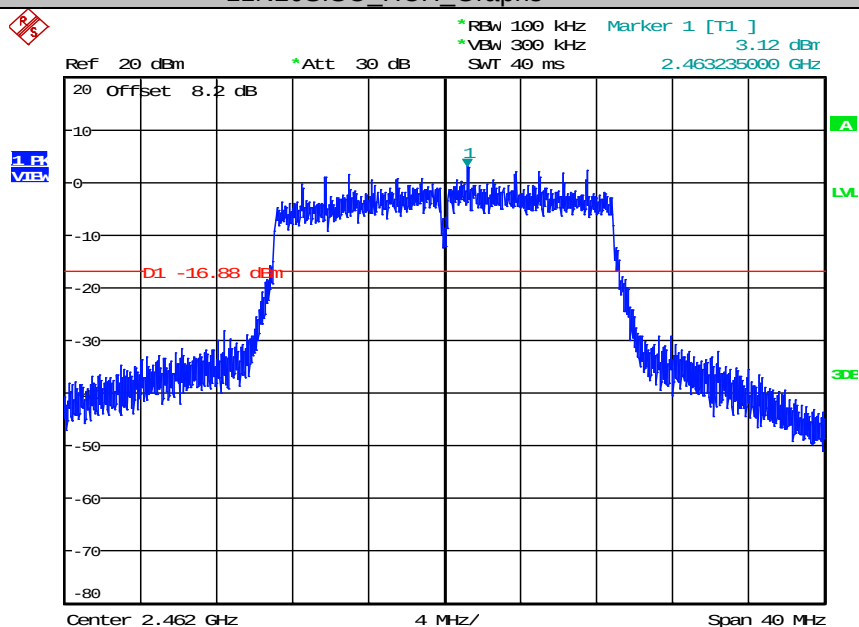
Pref/11N20
SISO/MCH

Date: 9.AUG.2019 13:05:15

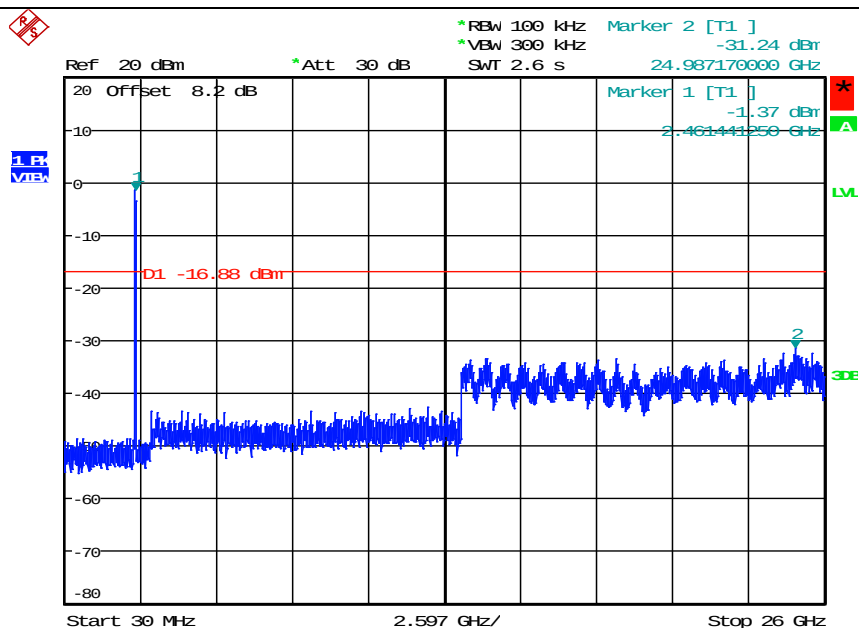
Puw/11N20
SISO/MCH

Date: 9.AUG.2019 13:05:30

11N20SISO_HCH_Graphs

Pref/11N20
SISO/HCH

Date: 9.AUG.2019 13:05:57

Puw/11N20
SISO/HCH

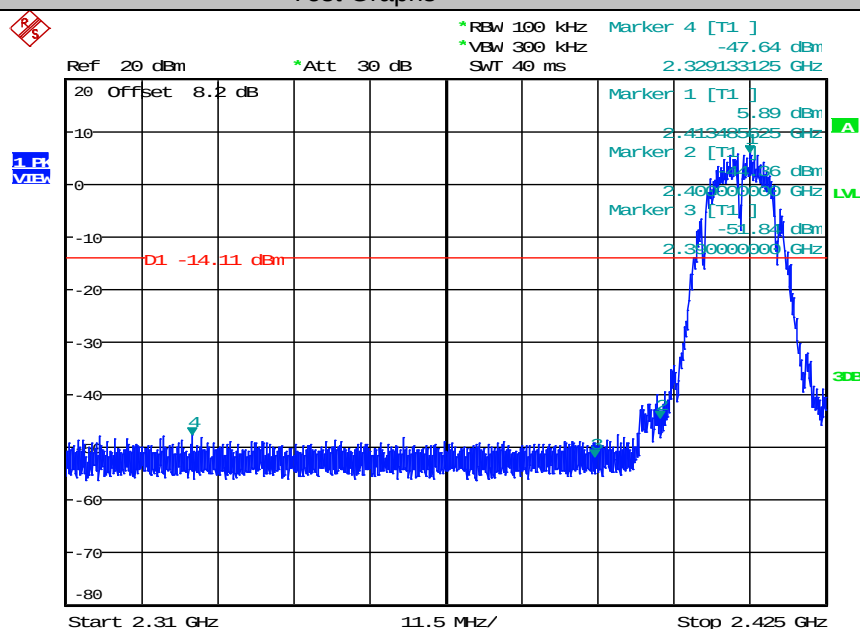
Date: 9.AUG.2019 13:06:17

C.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	5.890	-47.640	-14.11	PASS
	HCH	5.740	-46.947	-14.26	PASS
11G	LCH	1.690	-46.853	-18.31	PASS
	HCH	1.370	-45.490	-18.63	PASS
11N20SISO	LCH	1.250	-44.487	-18.75	PASS
	HCH	1.210	-43.881	-18.79	PASS

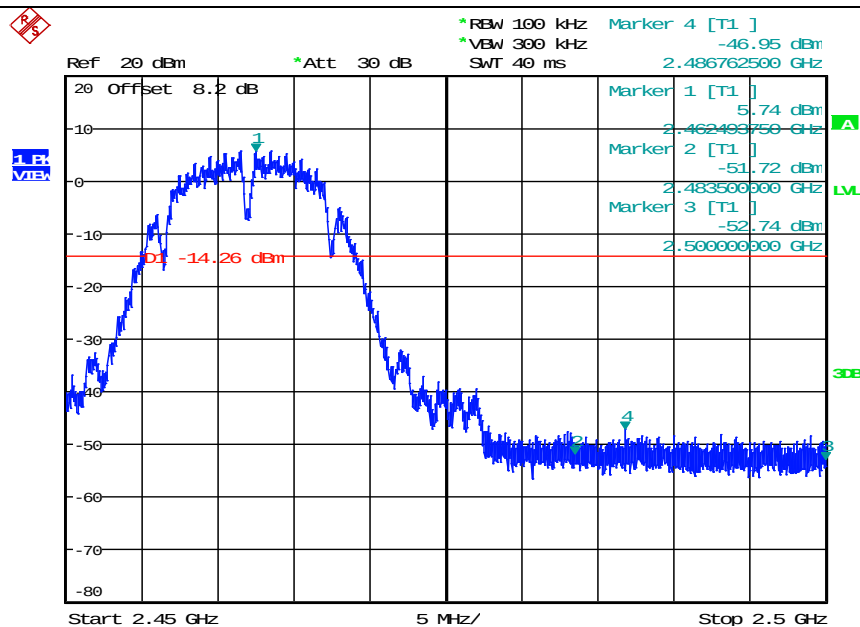
Test Graphs

11B/LCH



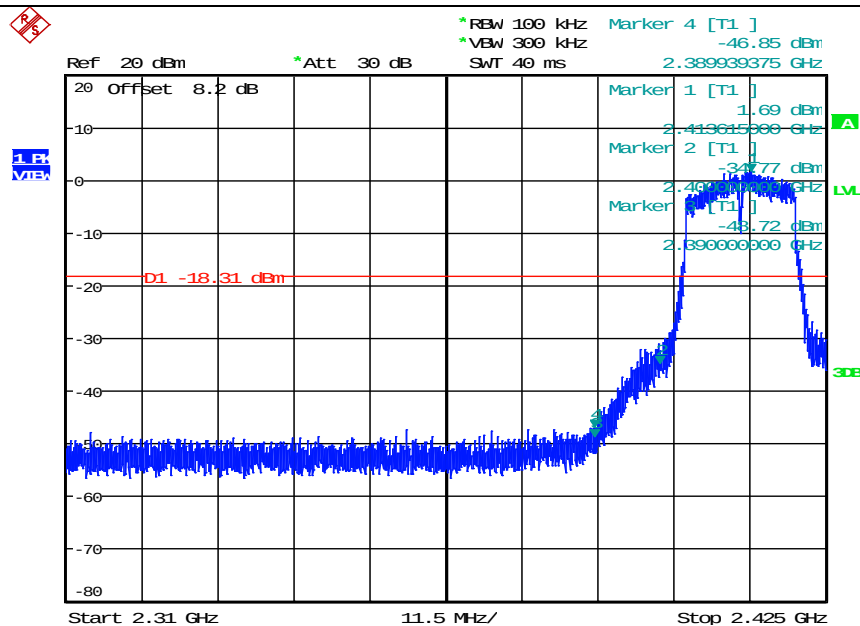
Date: 9.AUG.2019 12:14:31

11B/HCH



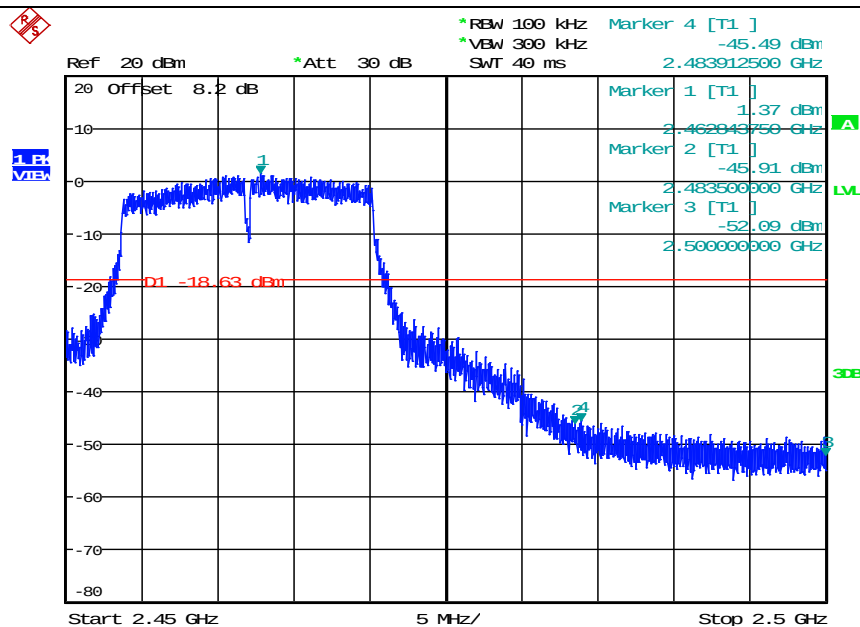
Date: 9.AUG.2019 12:19:34

11G/LCH



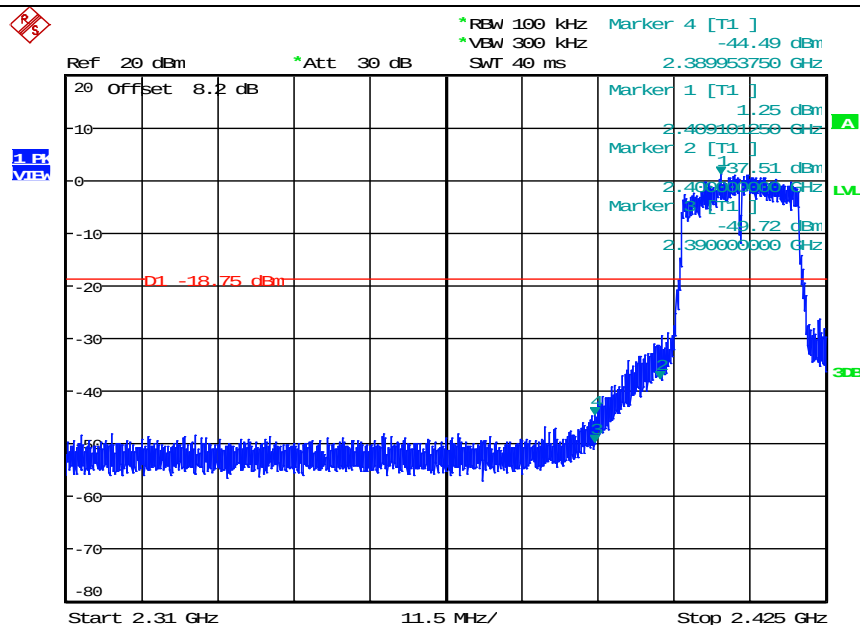
Date: 9.AUG.2019 12:22:15

11G/HCH



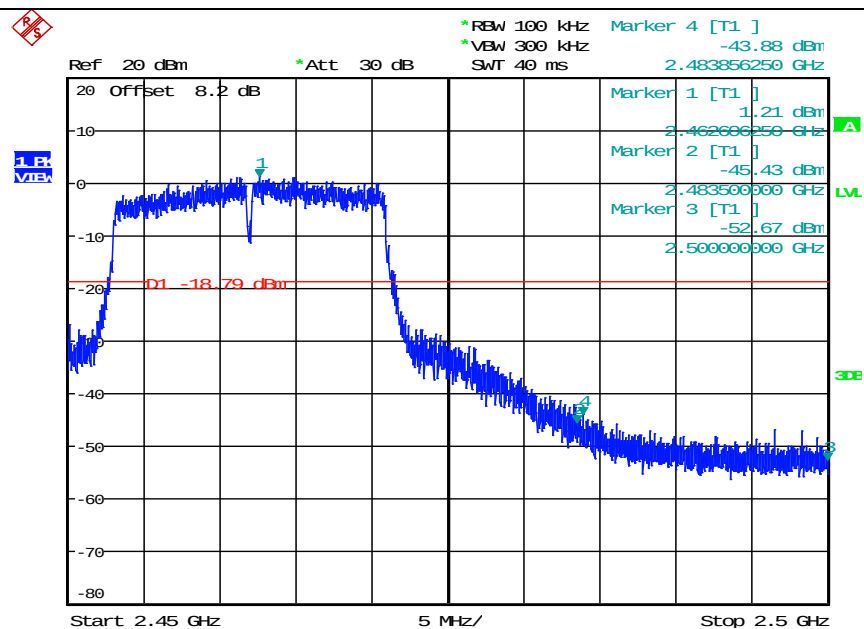
Date: 9.AUG.2019 12:27:01

11N20SISO/LCH



Date: 9.AUG.2019 12:30:32

11N20SISO/HCH

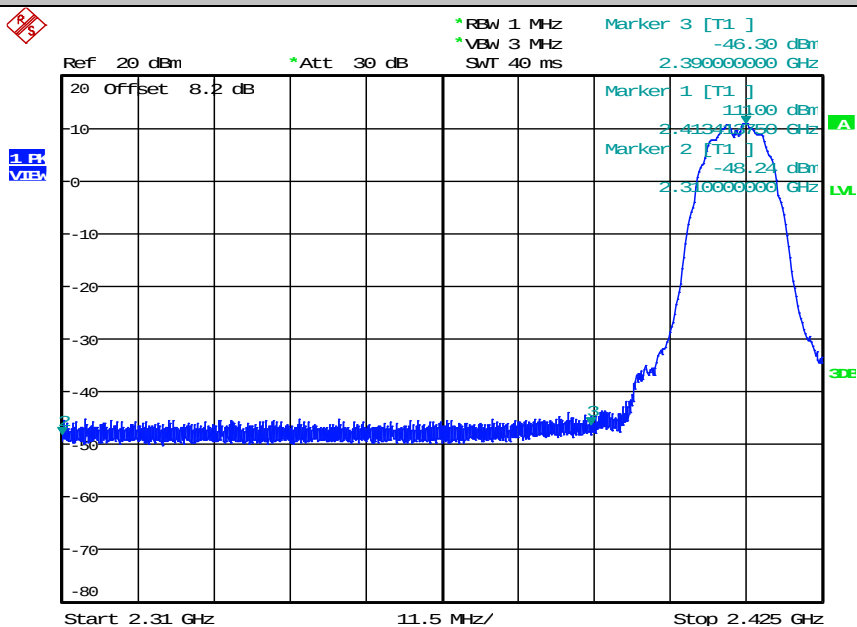


Date: 9.AUG.2019 12:35:05

C.7 Restrict-band band-edge measurements

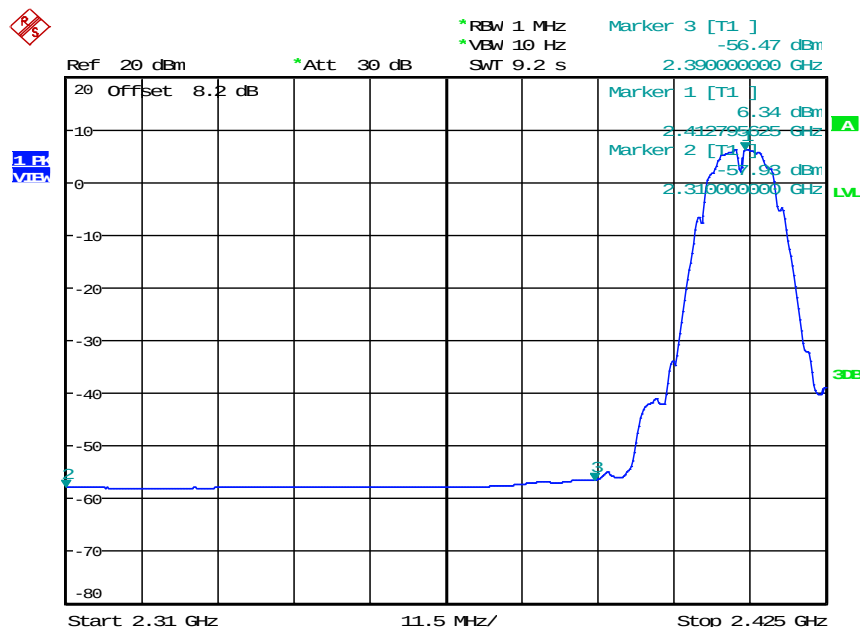
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant1	2310.0	-48.24	2.0	0	49.02	PEAK	74	PASS
	2412	Ant1	2310.0	-57.93	2.0	0	39.33	AV	54	PASS
	2412	Ant1	2390.0	-46.30	2.0	0	50.96	PEAK	74	PASS
	2412	Ant1	2390.0	-56.47	2.0	0	40.79	AV	54	PASS
	2462	Ant1	2483.5	-42.84	2.0	0	54.42	PEAK	74	PASS
	2462	Ant1	2483.5	-54.72	2.0	0	42.54	AV	54	PASS
	2462	Ant1	2500.0	-48.48	2.0	0	48.78	PEAK	74	PASS
	2462	Ant1	2500.0	-57.81	2.0	0	39.45	AV	54	PASS
11G	2412	Ant1	2310.0	-48.76	2.0	0	48.50	PEAK	74	PASS
	2412	Ant1	2310.0	-57.94	2.0	0	39.32	AV	54	PASS
	2412	Ant1	2390.0	-42.48	2.0	0	54.78	PEAK	74	PASS
	2412	Ant1	2390.0	-53.67	2.0	0	43.59	AV	54	PASS
	2462	Ant1	2483.5	-36.98	2.0	0	60.28	PEAK	74	PASS
	2462	Ant1	2483.5	-48.87	2.0	0	48.39	AV	54	PASS
	2462	Ant1	2500.0	-48.46	2.0	0	48.80	PEAK	74	PASS
	2462	Ant1	2500.0	-57.93	2.0	0	39.33	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-46.10	2.0	0	51.16	PEAK	74	PASS
	2412	Ant1	2310.0	-57.95	2.0	0	39.31	AV	54	PASS
	2412	Ant1	2390.0	-39.14	2.0	0	58.12	PEAK	74	PASS
	2412	Ant1	2390.0	-52.97	2.0	0	44.29	AV	54	PASS
	2462	Ant1	2483.5	-34.16	2.0	0	63.10	PEAK	74	PASS
	2462	Ant1	2483.5	-47.60	2.0	0	49.66	AV	54	PASS
	2462	Ant1	2500.0	-48.11	2.0	0	49.15	PEAK	74	PASS
	2462	Ant1	2500.0	-58.00	2.0	0	39.26	AV	54	PASS

Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



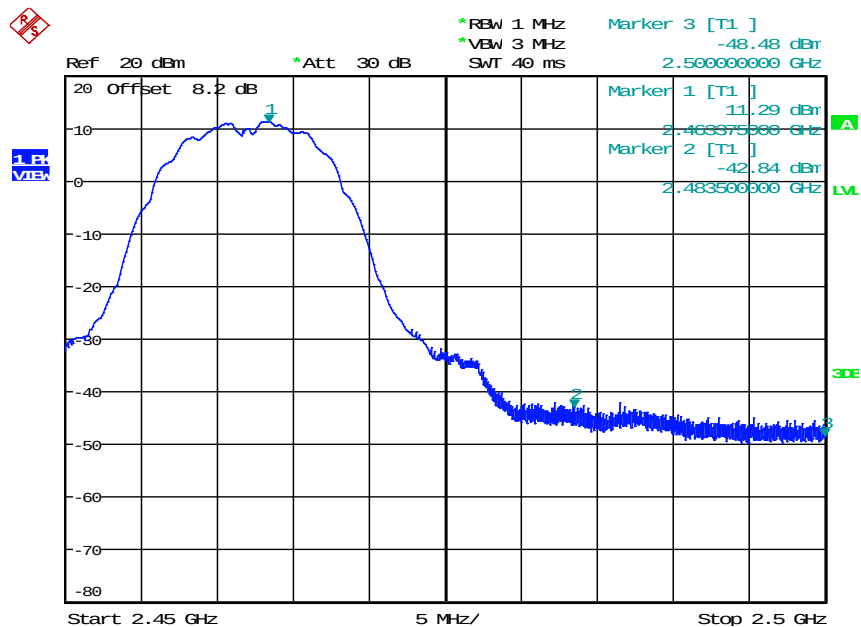
Date: 9.AUG.2019 12:58:12

Restrict-band band-edge measurements_11B_2412_Ant1_AV



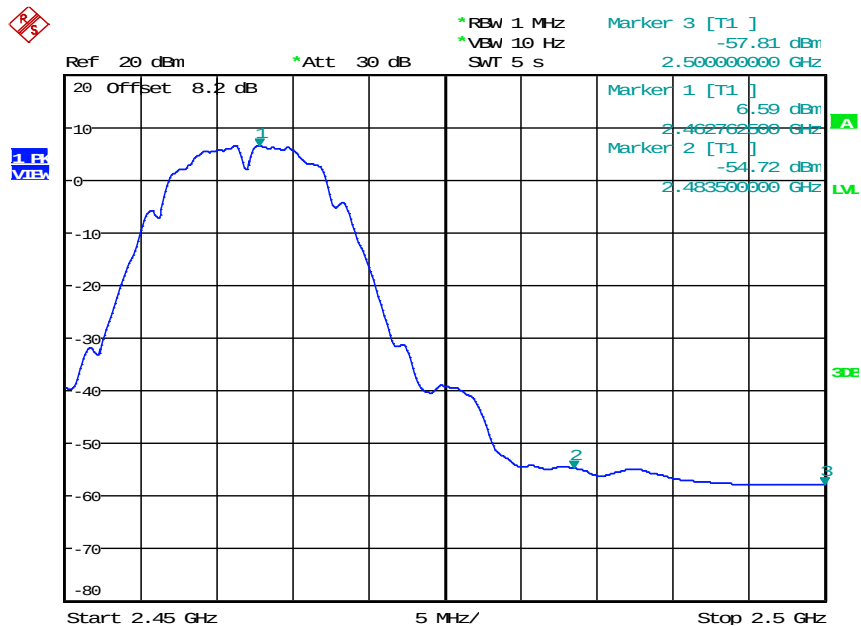
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Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



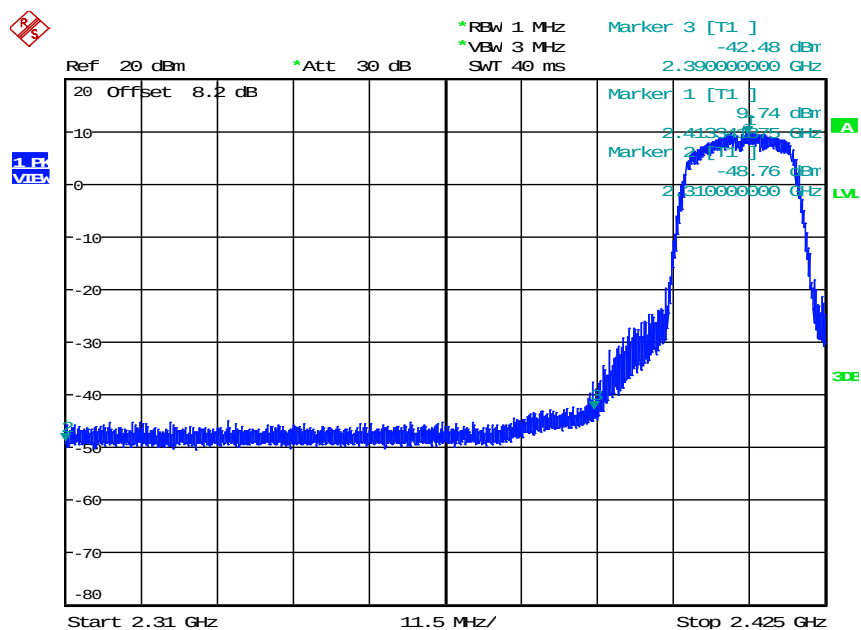
Date: 9.AUG.2019 12:20:19

Restrict-band band-edge measurements_11B_2462_Ant1_AV



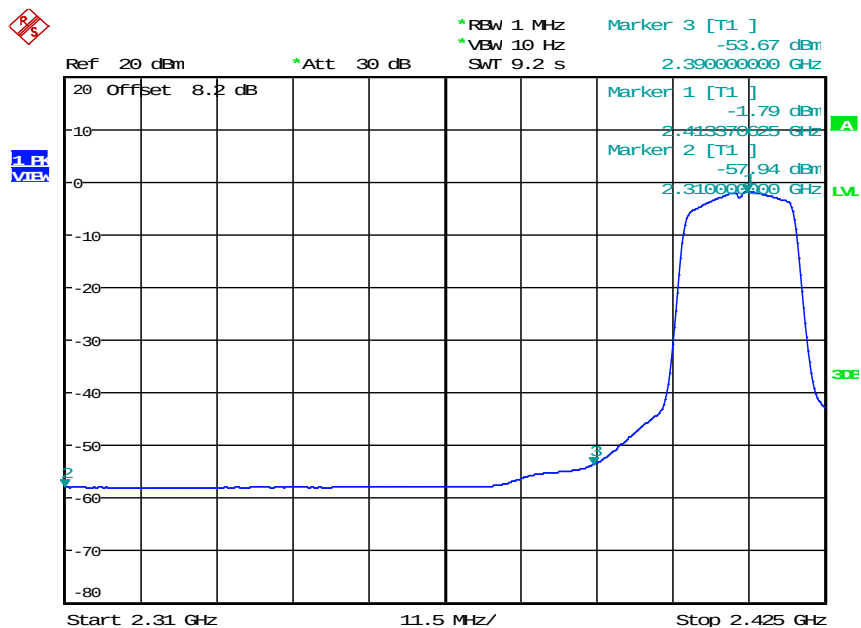
Date: 9.AUG.2019 12:20:34

Restrict-band band-edge measurements_11G_2412_Ant1_PEAK



Date: 9.AUG.2019 13:01:19

Restrict-band band-edge measurements_11G_2412_Ant1_AV



Date: 9.AUG.2019 13:01:36

Ref 20 dBm *Att 30 dB *RBW 1 MHz *VBW 3 MHz SWT 40 ms

Marker 3 [T1] -48.46 dBm 2.50000000 GHz

Offset 8.2 dB

Marker 1 [T1] 11.99 dBm 2.46725000 GHz

Marker 2 [T1] -36.98 dBm 2.48350000 GHz

Start 2.45 GHz 5 MHz/ Stop 2.5 GHz

Date: 9.AUG.2019 12:27:45

Ref 20 dBm *Att 30 dB *RBW 1 MHz *VBW 10 Hz *SWT 5 s

Marker 3 [T1] -57.93 dBm 2.50000000 GHz

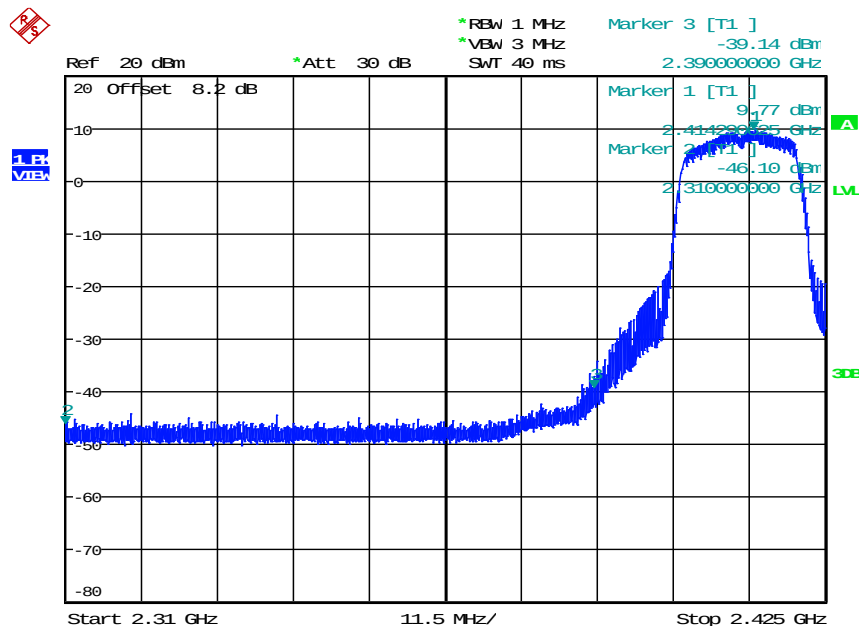
Marker 1 [T1] 2.00 dBm 2.463116750 GHz

Marker 2 [T1] -48.87 dBm 2.483500000 GHz

Start 2.45 GHz 5 MHz/ Stop 2.5 GHz

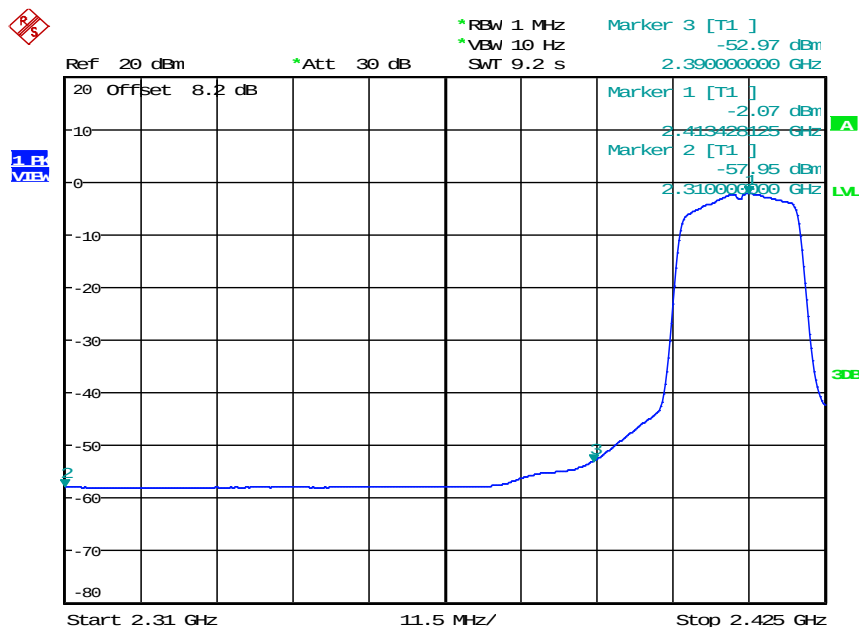
Date: 9.AUG.2019 12:28:00

Restrict-band band-edge measurements_11N20SISO_2412_Ant1_PEAK



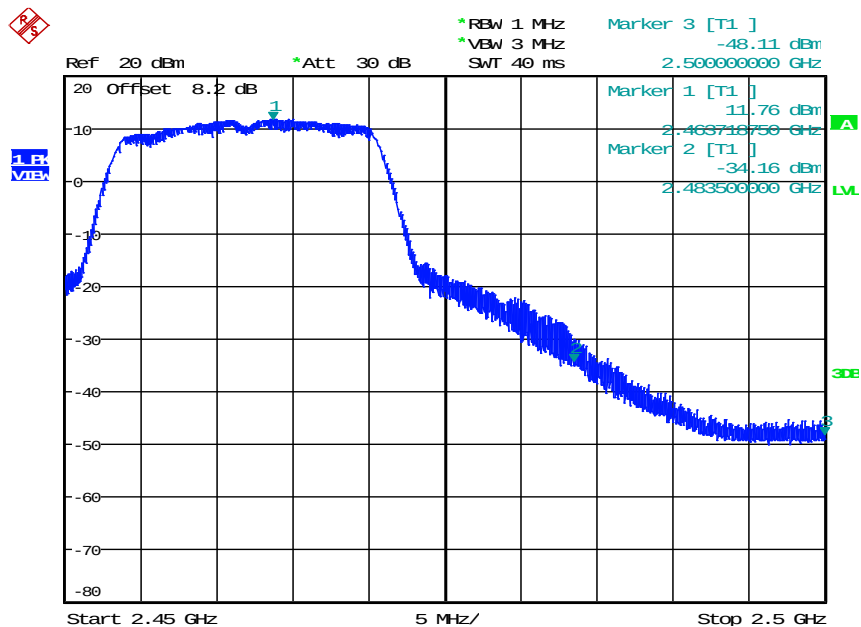
Date: 9.AUG.2019 13:04:25

Restrict-band band-edge measurements_11N20SISO_2412_Ant1_AV



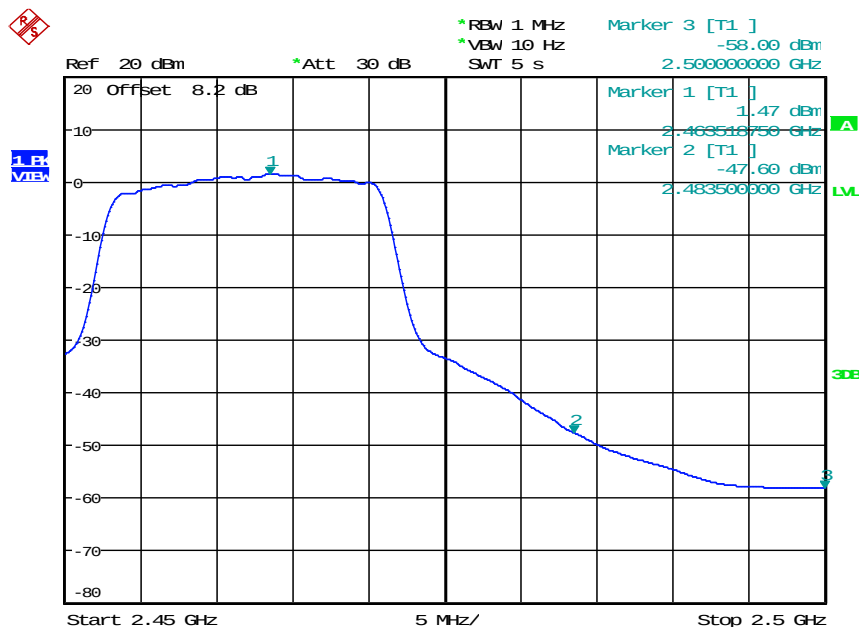
Date: 9.AUG.2019 13:04:48

Restrict-band band-edge measurements_11N20SISO_2462_Ant1_PEAK



Date: 9.AUG.2019 12:35:49

Restrict-band band-edge measurements_11N20SISO_2462_Ant1_AV



Date: 9.AUG.2019 12:36:04