

Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Personal Mobile Alarm System

Trade Mark: N/A

Test Model: EV-07B-LTE

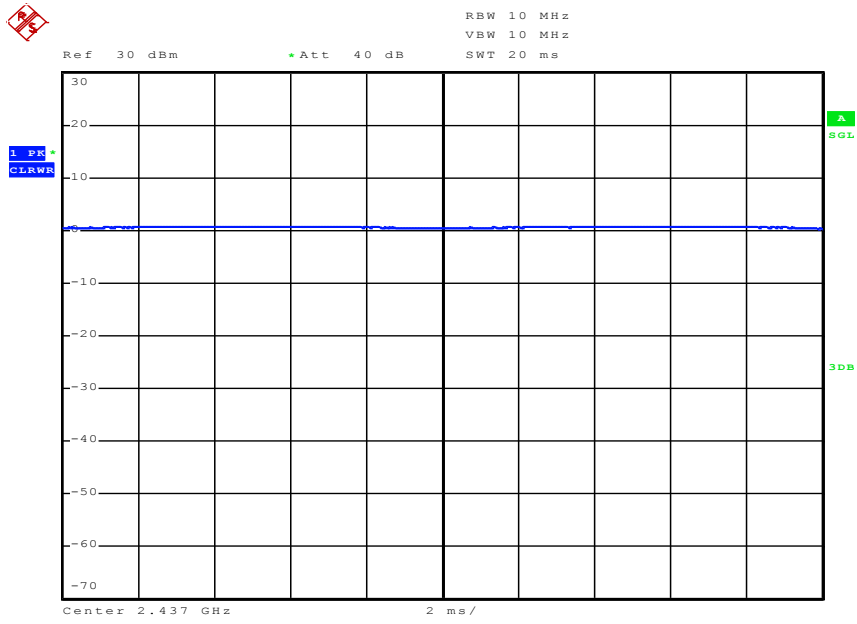
Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Wang.Chuang

C.1 Duty Cycle

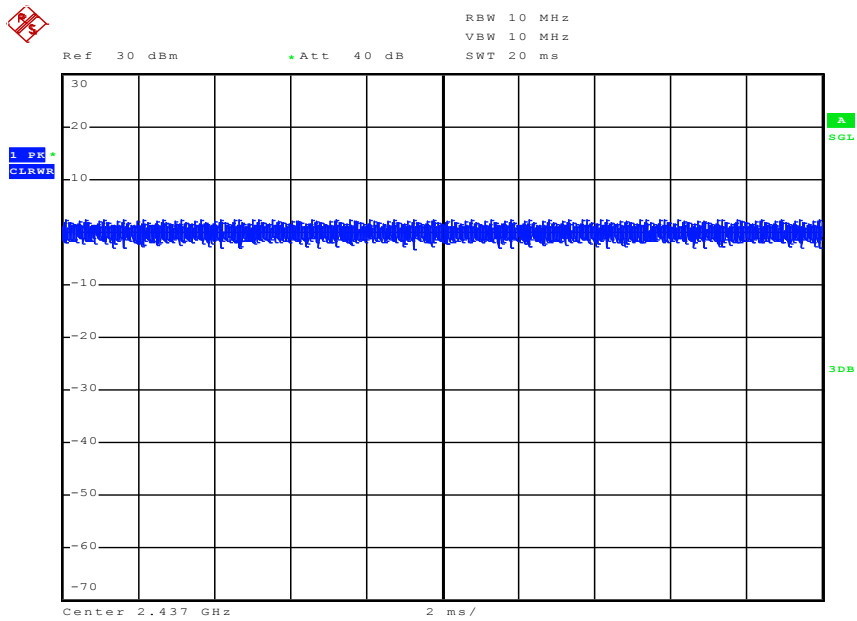
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20SISO	2437	Ant1	100	PASS
11N40SISO	2437	Ant1	100	PASS

Duty Cycle_11B_2437_Ant1



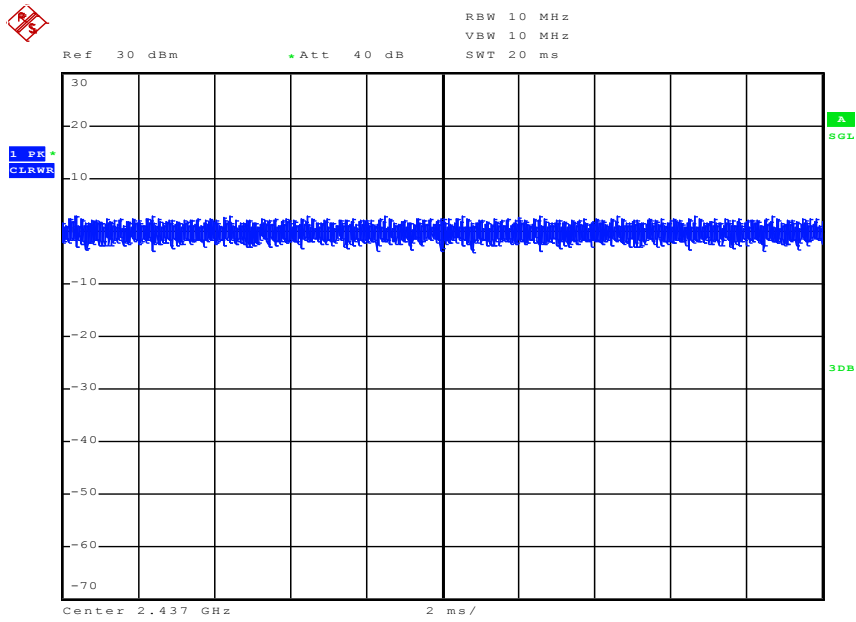
Date: 19.SEP.2019 15:51:47

Duty Cycle_11G_2437_Ant1



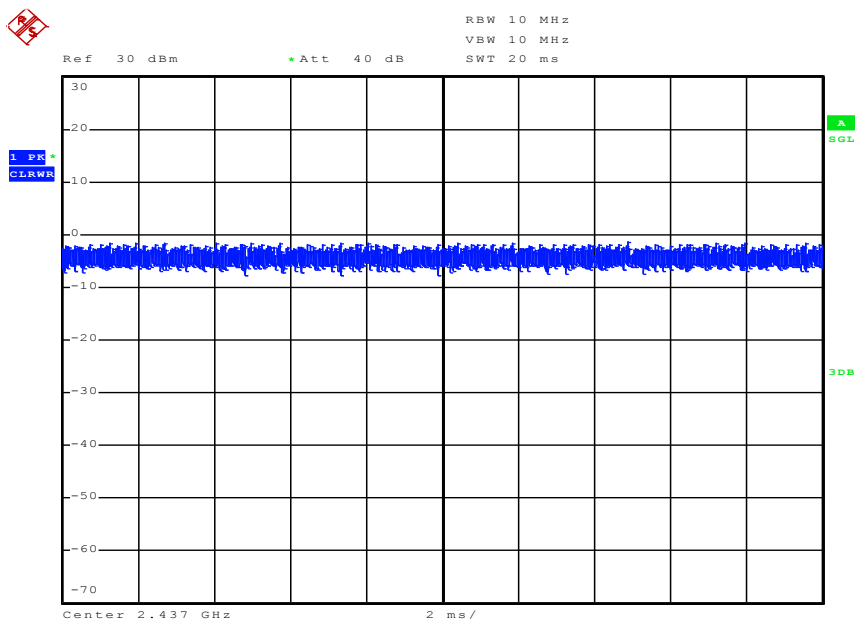
Date: 19.SEP.2019 15:53:00

Duty Cycle_11N20SISO_2437_Ant1



Date: 19.SEP.2019 15:53:46

Duty Cycle_11N40SISO_2437_Ant1



Date: 19.SEP.2019 15:54:31

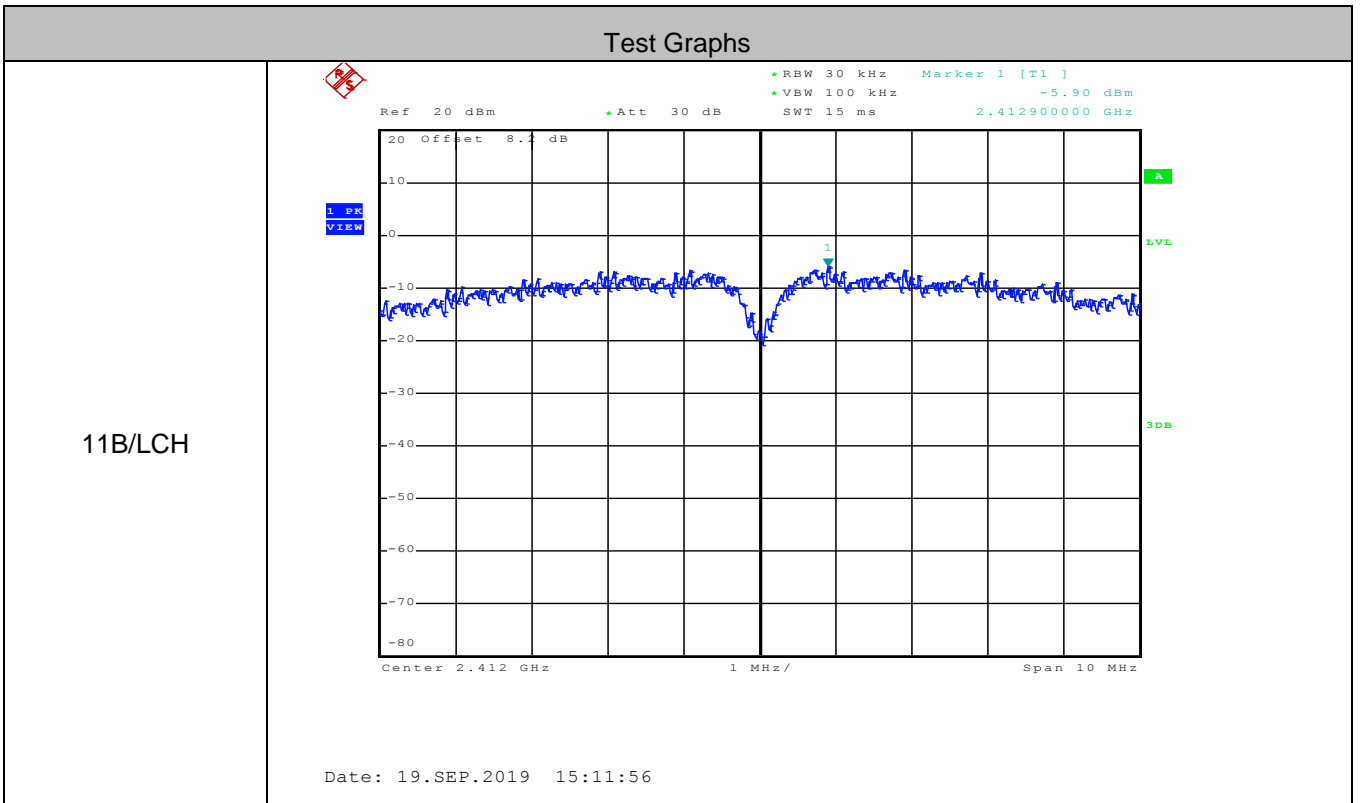
C.2 Maximum Conducted Output Power

Mode	Channel	Peak Output Power [dBm]	Average Output Power (dBm)	Limit [dBm]	Verdict
11B	LCH	11.89	10.24	30	PASS
	MCH	13.04	11.16	30	PASS
	HCH	12.14	10.63	30	PASS
11G	LCH	10.03	8.94	30	PASS
	MCH	12.01	10.21	30	PASS
	HCH	13.71	10.72	30	PASS
11N20SIS O	LCH	10.44	7.16	30	PASS
	MCH	16.05	12.57	30	PASS
	HCH	16.07	12.00	30	PASS
11N40SIS O	LCH	16.73	11.97	30	PASS
	MCH	14.87	11.33	30	PASS
	HCH	15.07	10.75	30	PASS

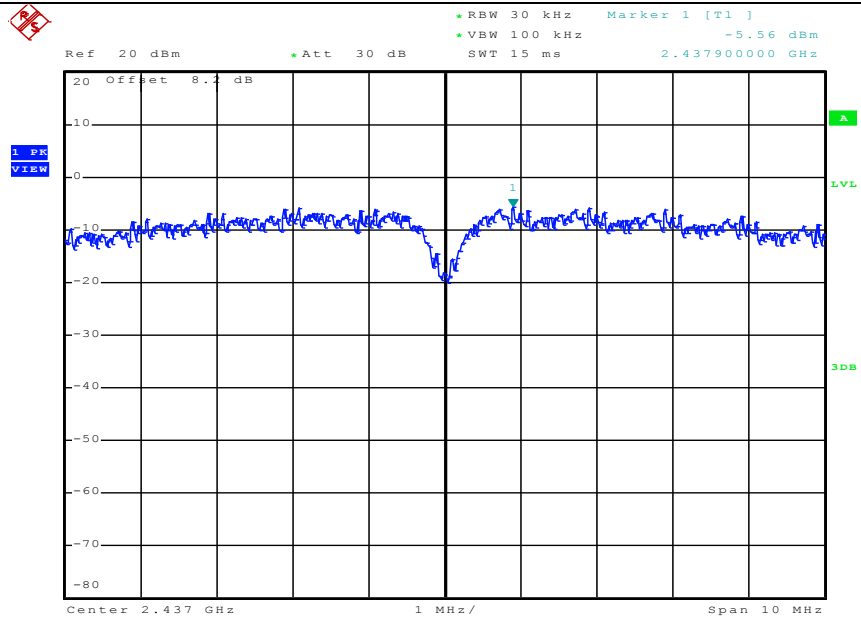
C.3 Maximum Power Spectral Density

Calculate formula: Meas.Level [dBm/3KHz]= Meas.Level [dBm/30KHz]-10

Mode	Channel	Meas.Level [dBm/30KHz]	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-5.900	-15.900	8	PASS
	MCH	-5.560	-15.560	8	PASS
	HCH	-6.610	-16.610	8	PASS
11G	LCH	-12.200	-22.200	8	PASS
	MCH	-10.900	-20.900	8	PASS
	HCH	-8.630	-18.630	8	PASS
11N20S ISO	LCH	-11.700	-21.700	8	PASS
	MCH	-5.240	-15.240	8	PASS
	HCH	-5.310	-15.310	8	PASS
11N40S ISO	LCH	-9.820	-19.820	8	PASS
	MCH	-11.300	-21.300	8	PASS
	HCH	-11.350	-21.350	8	PASS

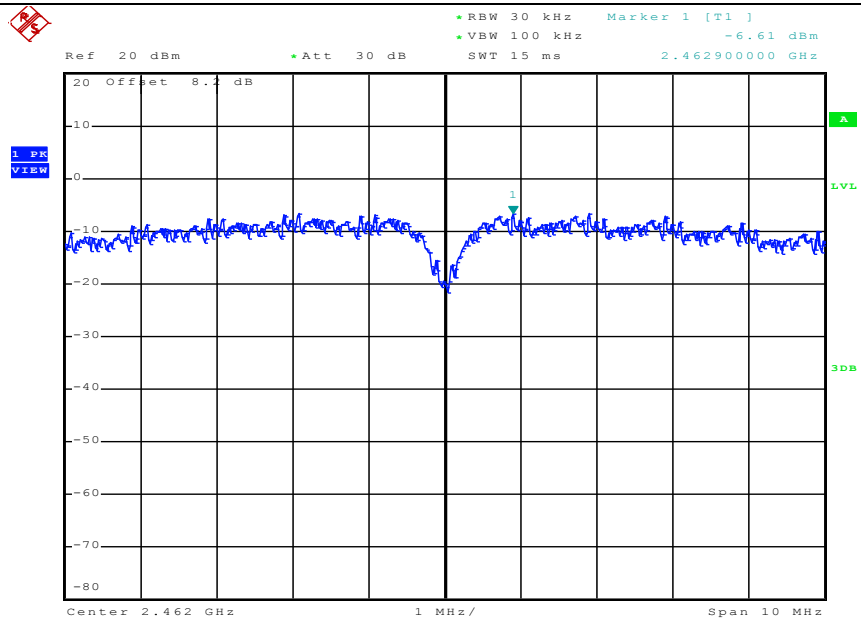


11B/MCH



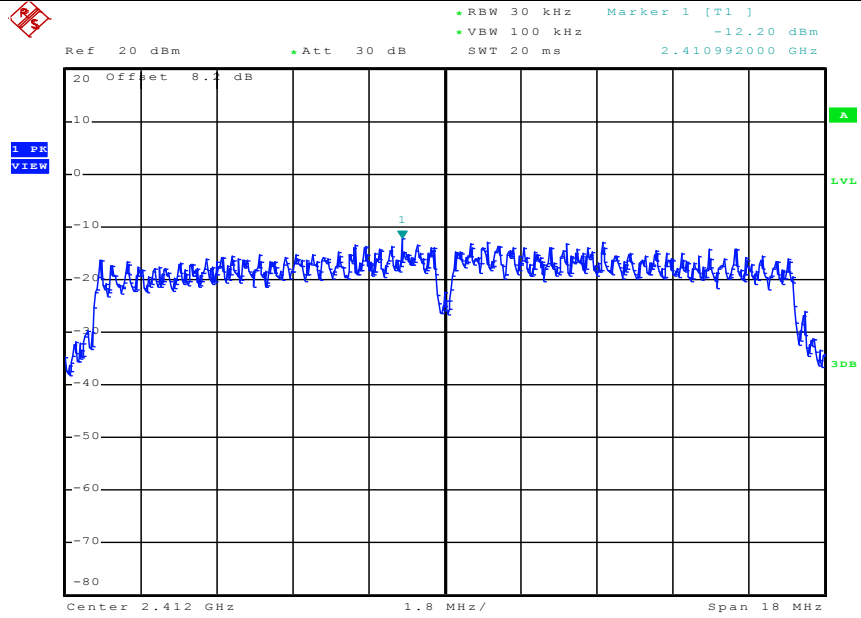
Date: 19.SEP.2019 15:15:32

11B/HCH



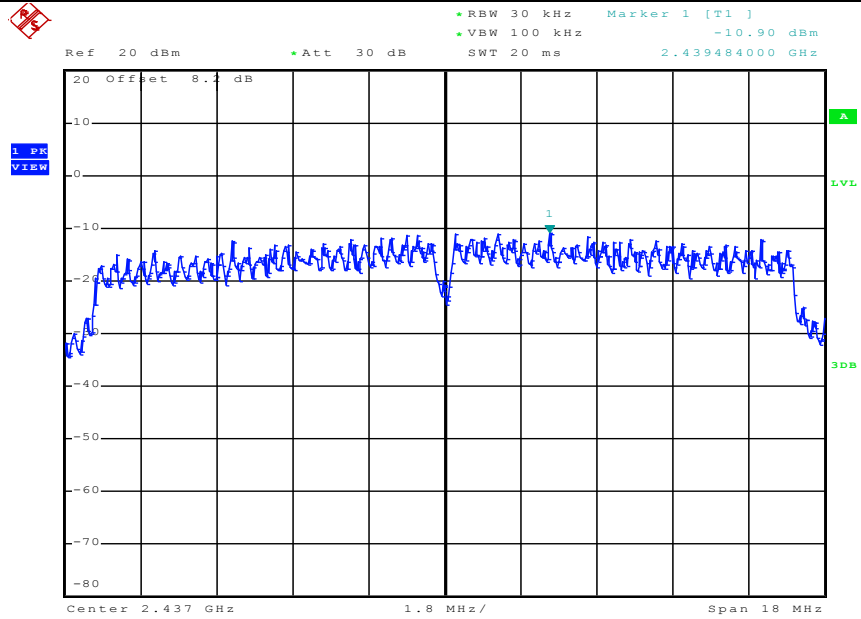
Date: 19.SEP.2019 15:18:13

11G/LCH



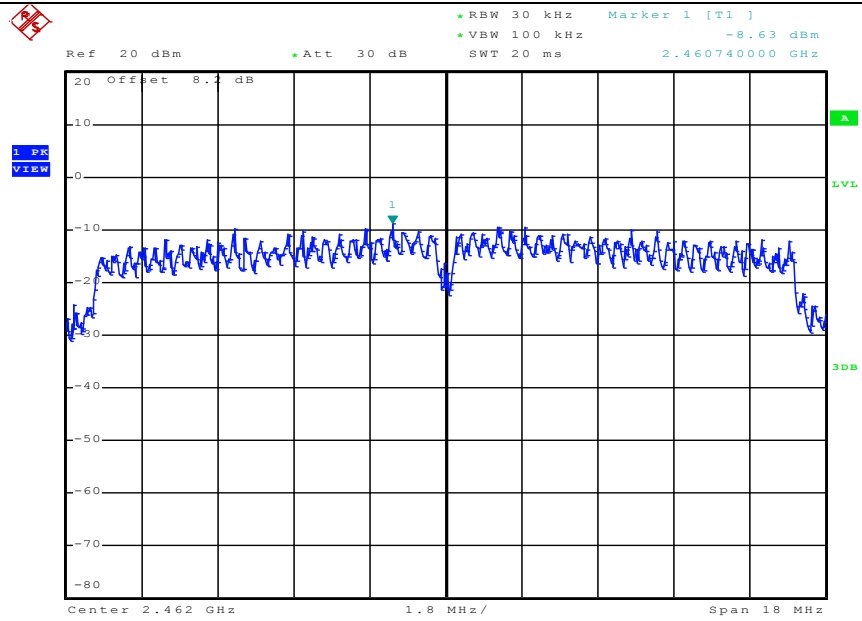
Date: 19.SEP.2019 15:22:06

11G/MCH



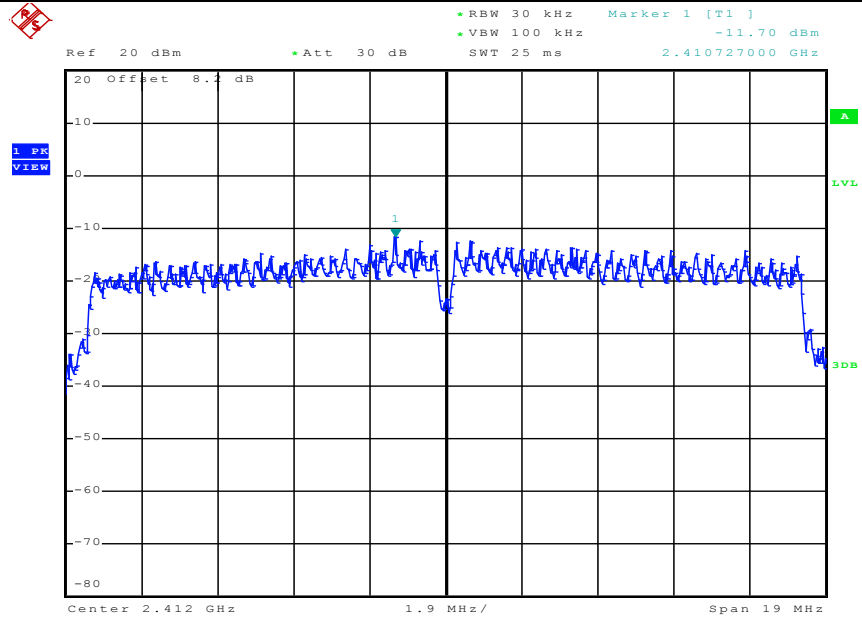
Date: 19.SEP.2019 15:25:10

11G/HCH



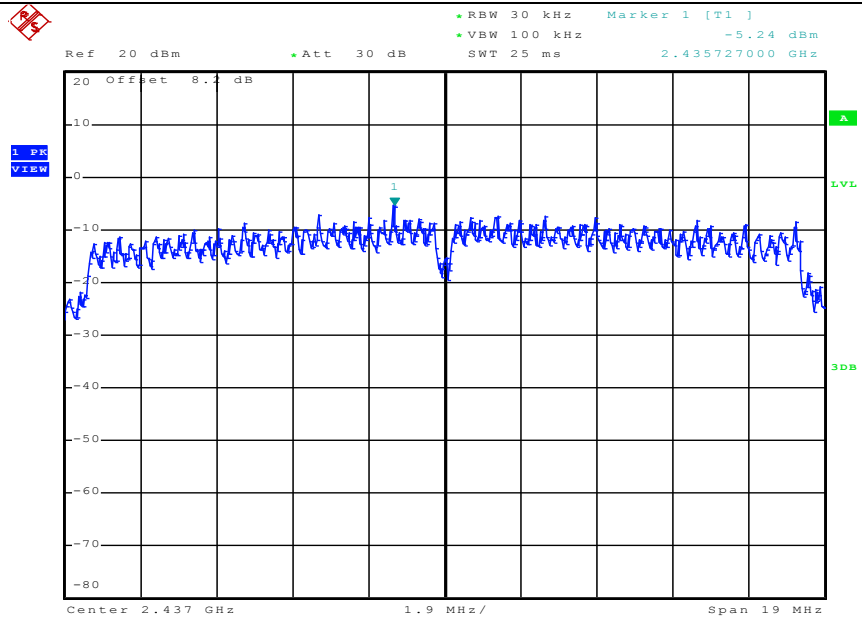
Date: 19.SEP.2019 15:27:22

11N20SISO/LCH



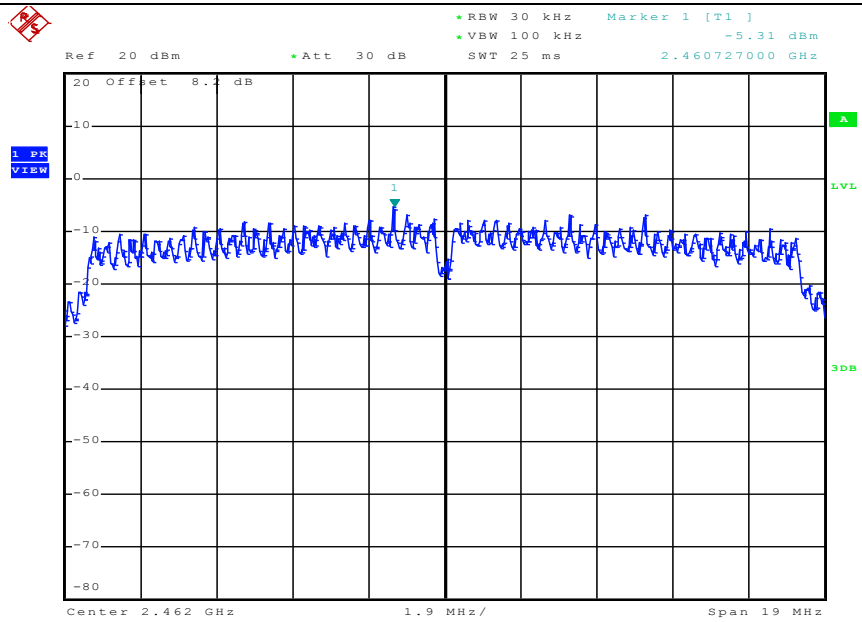
Date: 19.SEP.2019 15:30:56

11N20SISO/MCH



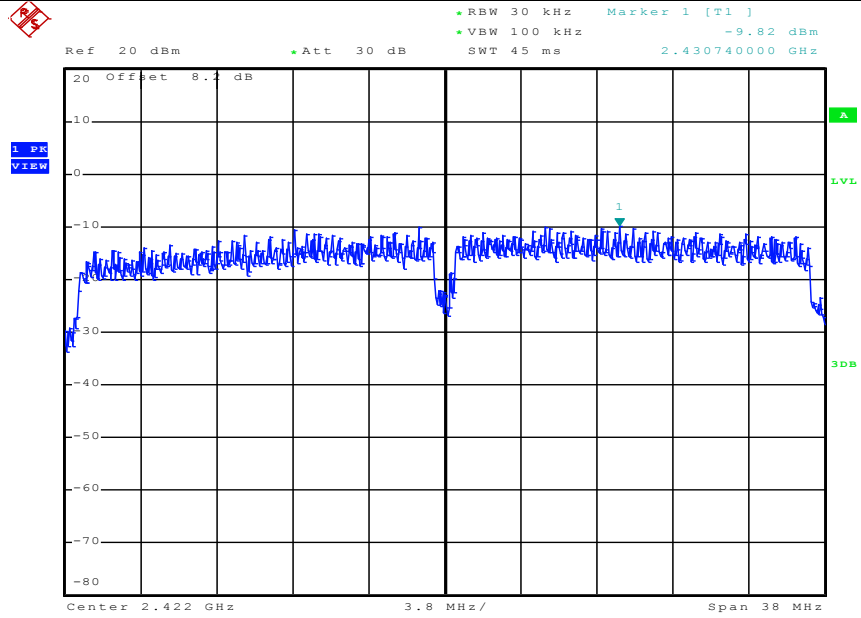
Date: 19.SEP.2019 15:34:00

11N20SISO/HCH



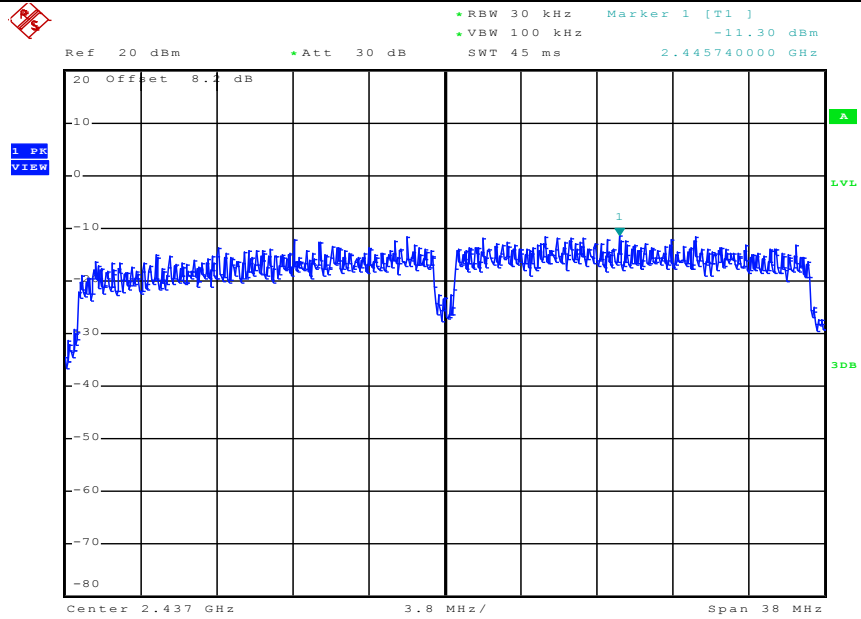
Date: 19.SEP.2019 15:35:50

11N40SISO/LCH



Date: 19.SEP.2019 15:40:00

11N40SISO/MCH

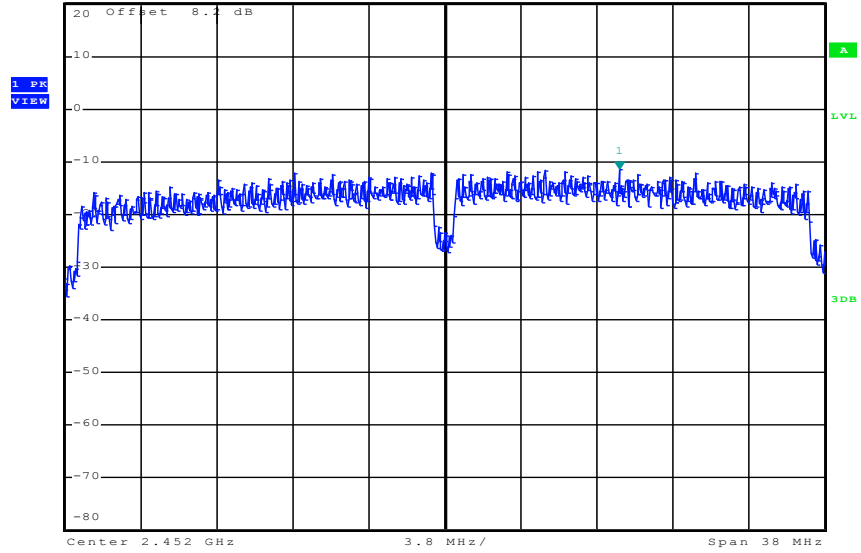


Date: 19.SEP.2019 15:45:42

11N40SISO/HCH



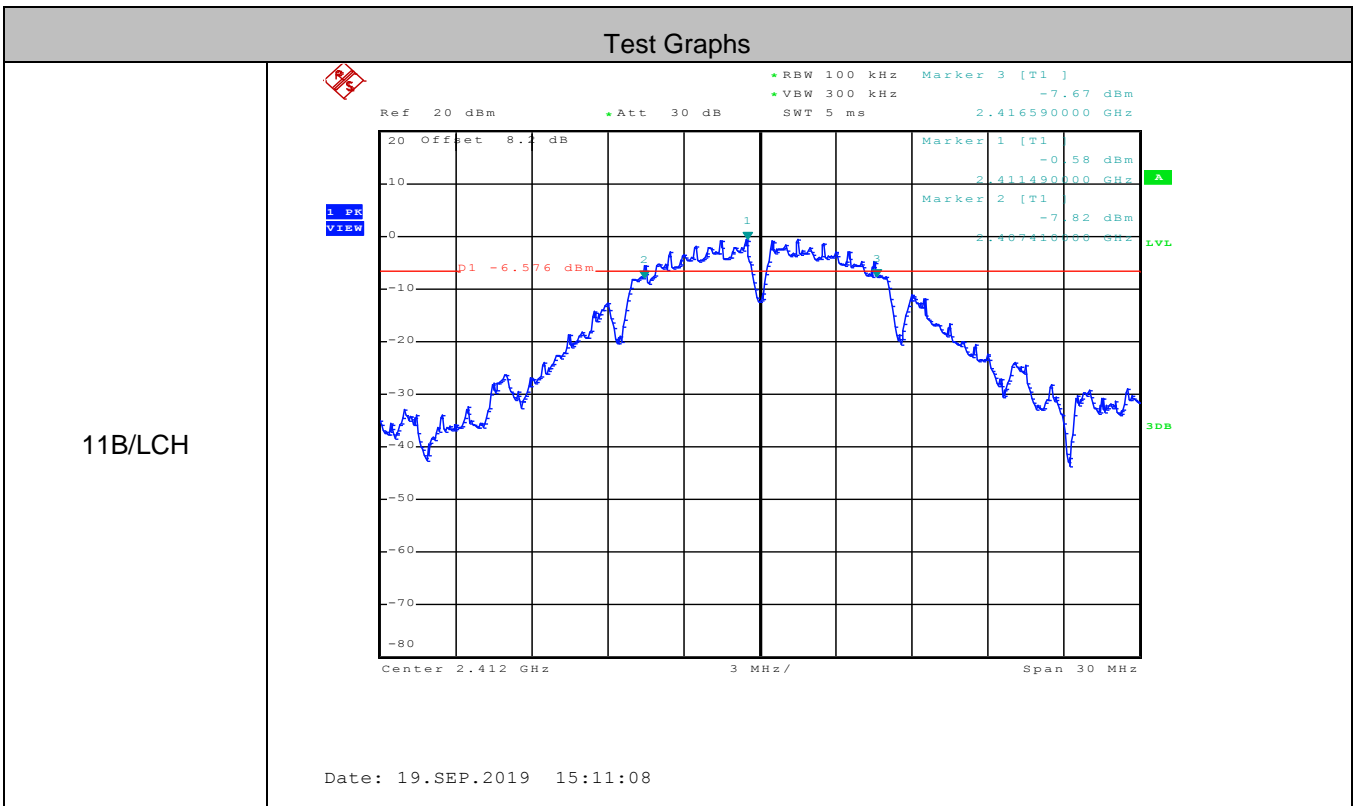
Ref 20 dBm Att 30 dB RBW 30 kHz Marker 1 [T1] -11.35 dBm
VBW 100 kHz SWT 45 ms 2.460740000 GHz



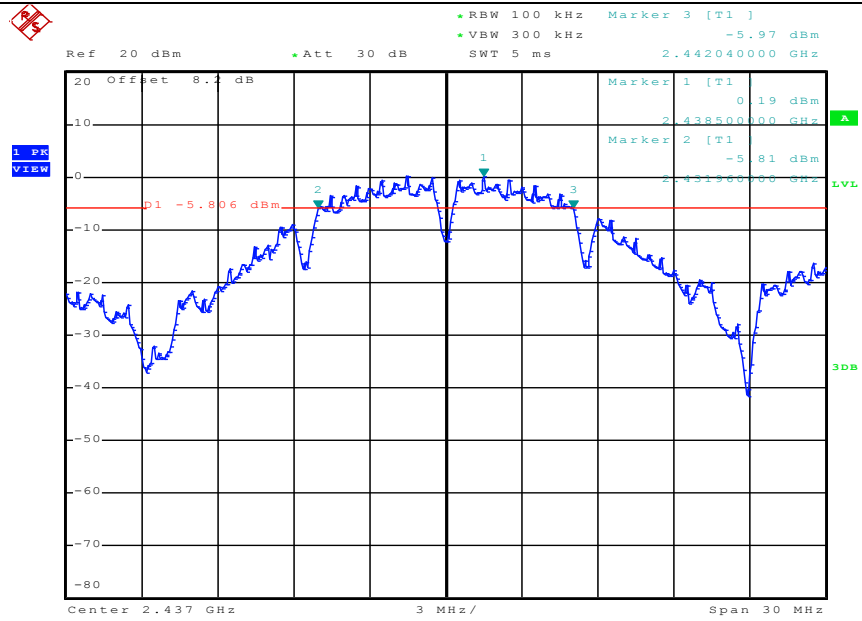
Date: 19.SEP.2019 15:49:11

C.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.180	≥0.5	PASS
	MCH	10.080	≥0.5	PASS
	HCH	10.110	≥0.5	PASS
11G	LCH	14.130	≥0.5	PASS
	MCH	15.360	≥0.5	PASS
	HCH	16.380	≥0.5	PASS
11N20SISO	LCH	15.930	≥0.5	PASS
	MCH	15.090	≥0.5	PASS
	HCH	15.510	≥0.5	PASS
11N40SISO	LCH	35.880	≥0.5	PASS
	MCH	34.320	≥0.5	PASS
	HCH	35.220	≥0.5	PASS

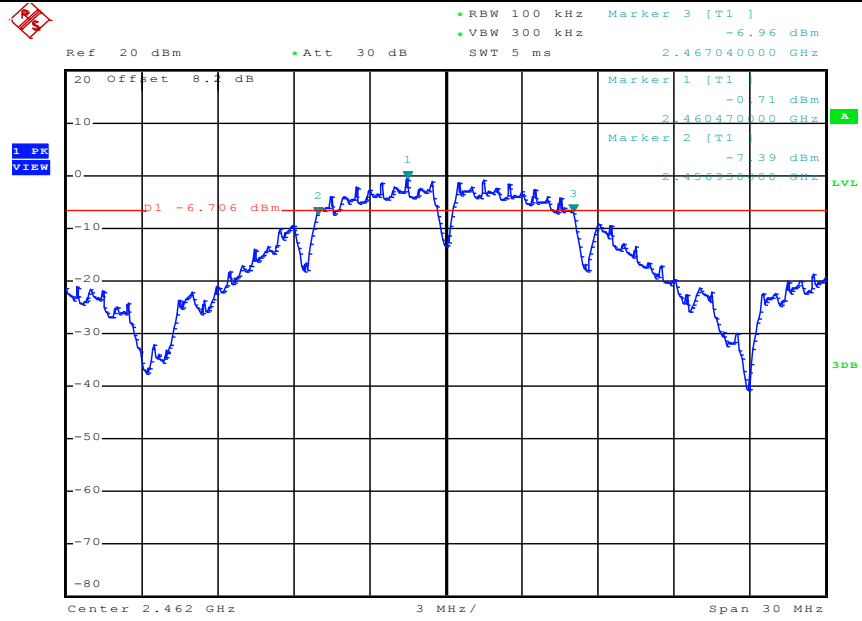


11B/MCH



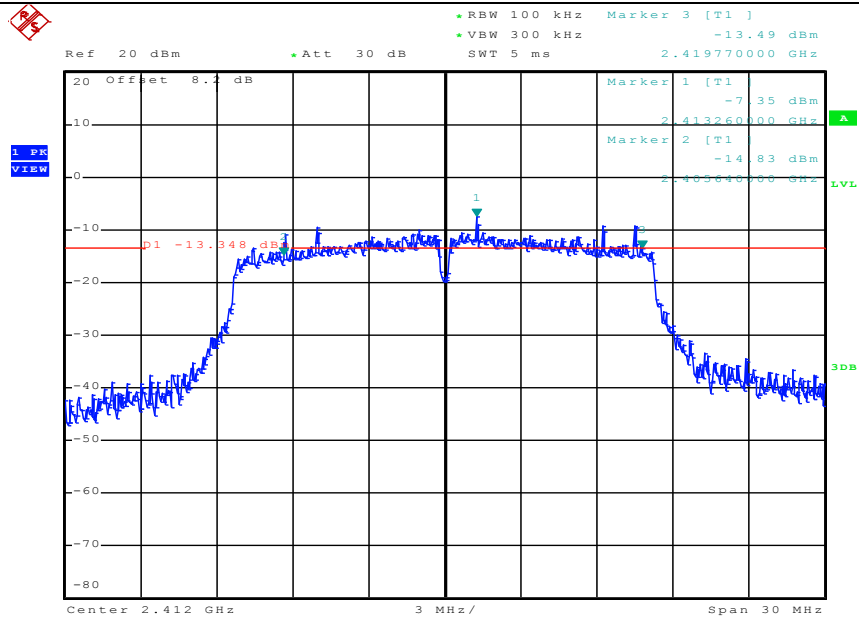
Date: 19.SEP.2019 15:14:45

11B/HCH



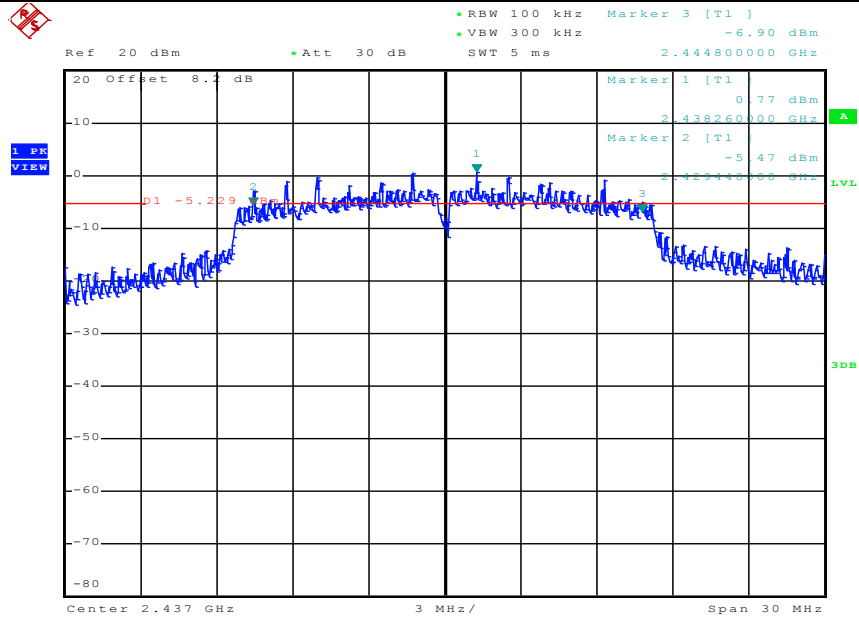
Date: 19.SEP.2019 15:17:25

11G/LCH



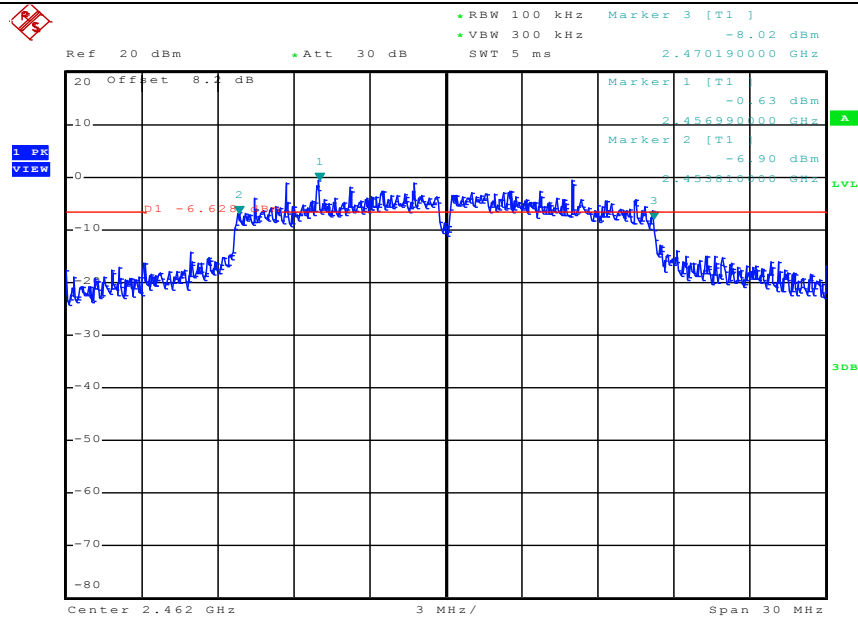
Date: 19.SEP.2019 15:21:18

11G/MCH



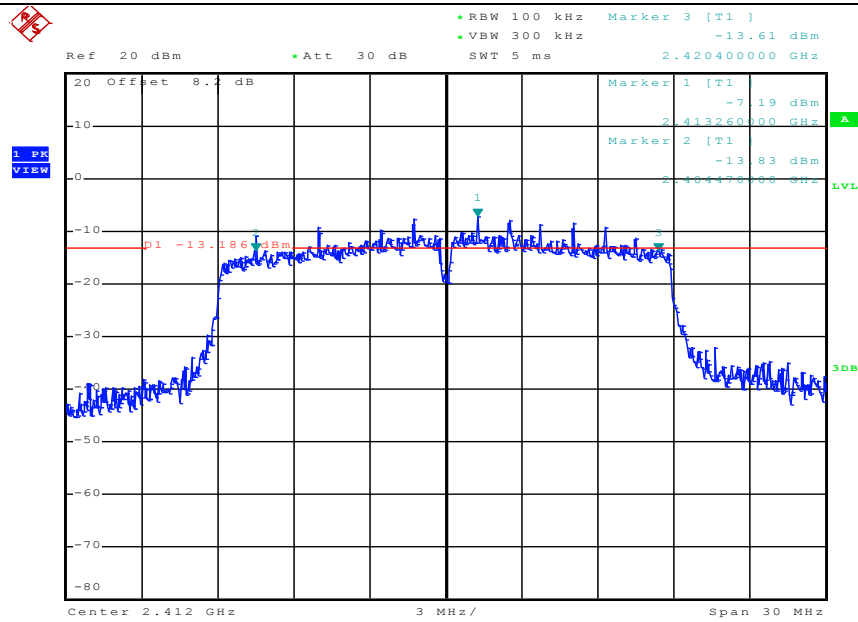
Date: 19.SEP.2019 15:23:56

11G/HCH



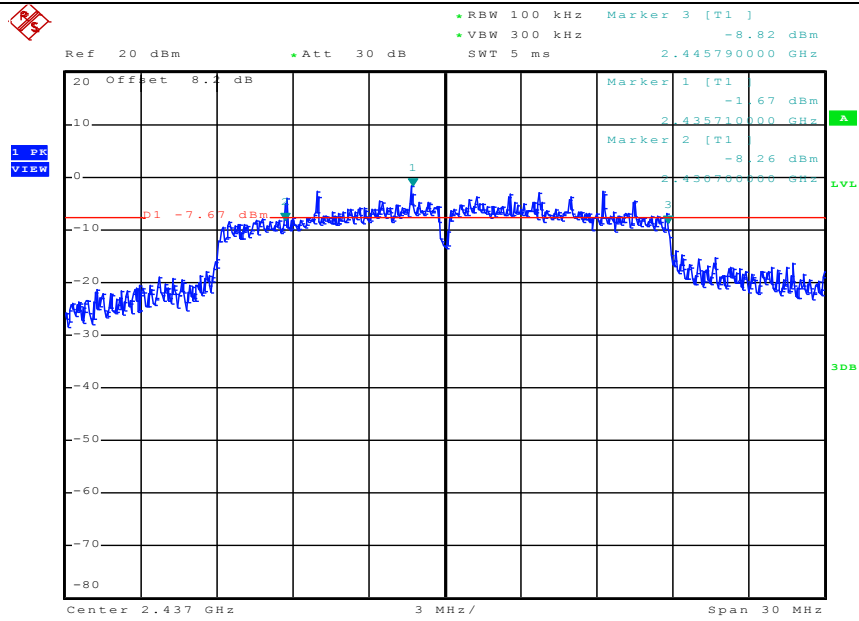
Date: 19.SEP.2019 15:26:12

11N20SISO/LCH



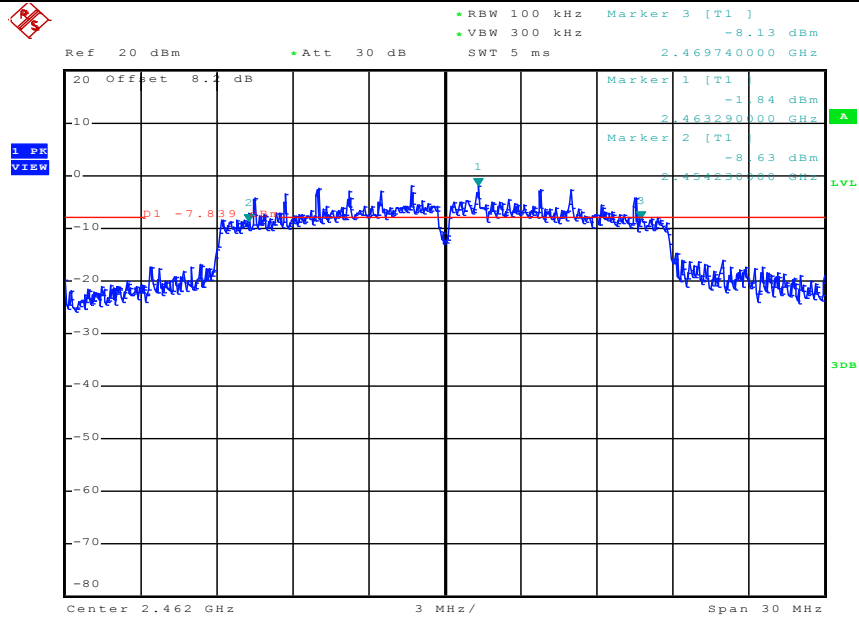
Date: 19.SEP.2019 15:30:08

11N20SISO/MCH



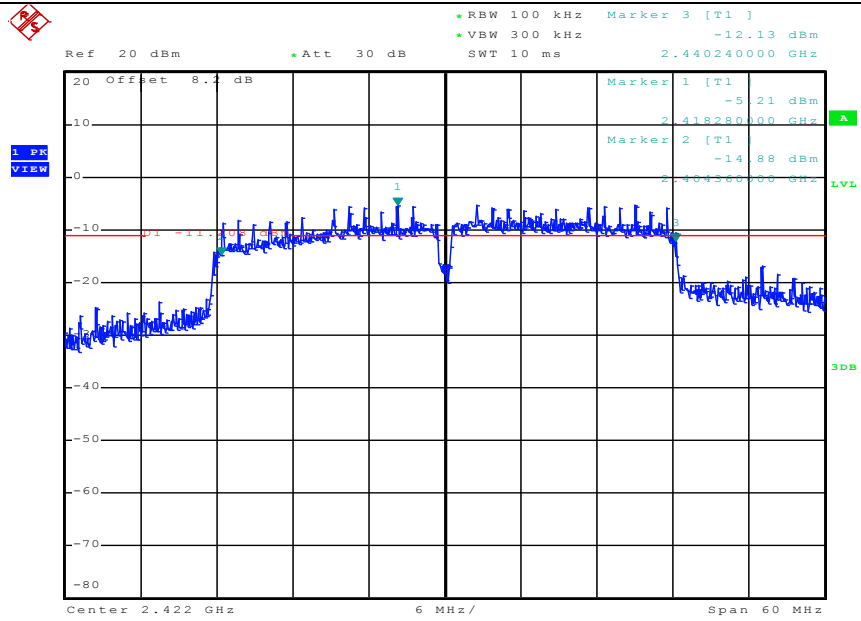
Date: 19.SEP.2019 15:33:13

11N20SISO/HCH

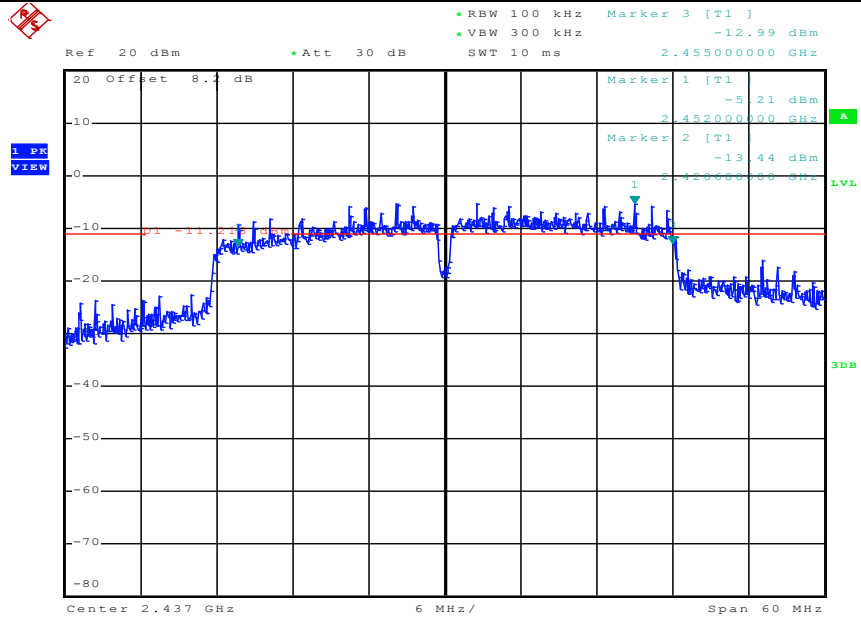


Date: 19.SEP.2019 15:35:02

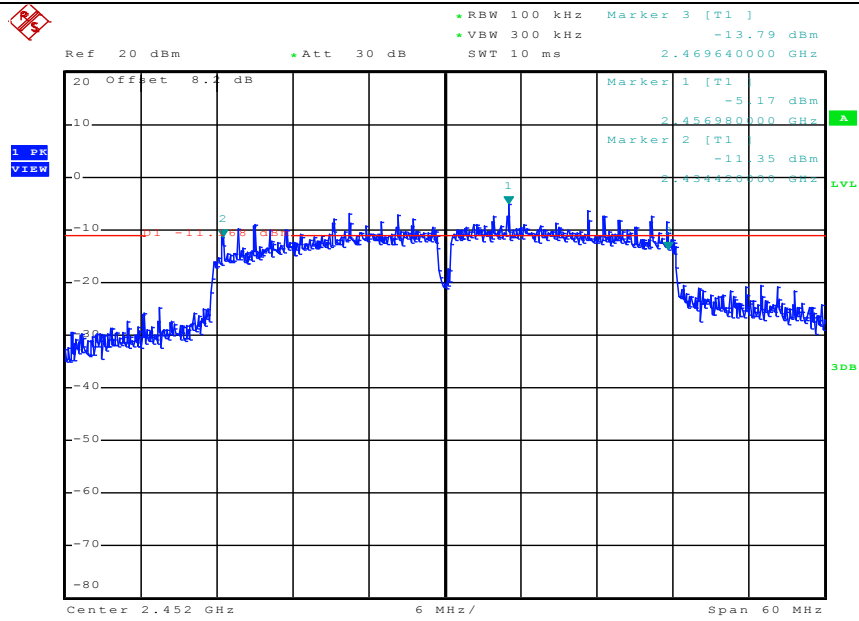
11N40SISO/LCH



11N40SISO/MCH



11N40SISO/HCH



Date: 19.SEP.2019 15:48:24

C.5 RF Conducted Spurious Emissions

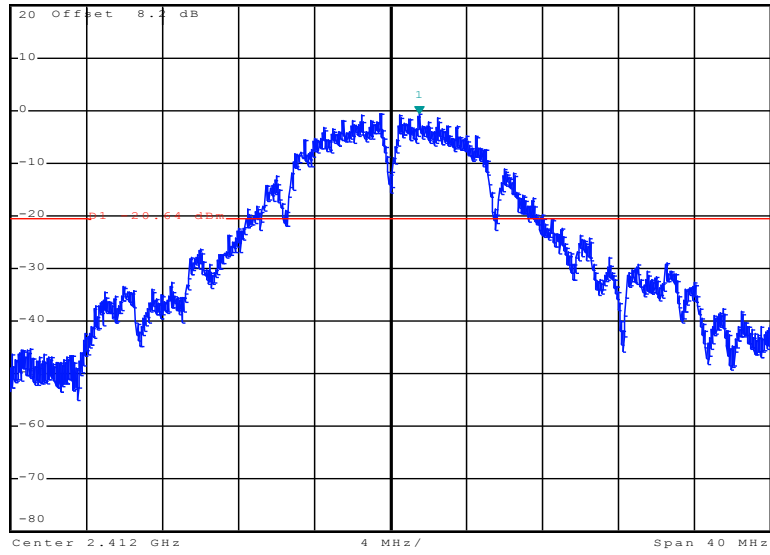
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdic
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					t
11B	LCH	-0.64	-31.620	-20.640	PASS
	MCH	0.14	-32.430	-19.860	PASS
	HCH	-0.76	-32.870	-20.760	PASS
11G	LCH	-7.67	-31.940	-27.670	PASS
	MCH	-5.71	-32.070	-25.710	PASS
	HCH	-3.74	-32.190	-23.740	PASS
11N20 SISO	LCH	-7.41	-32.330	-27.410	PASS
	MCH	-0.88	-32.120	-20.880	PASS
	HCH	-1.35	-32.080	-21.350	PASS
11N40 SISO	LCH	-5.21	-31.970	-25.210	PASS
	MCH	-6.23	-31.790	-26.230	PASS
	HCH	-6.7	-32.350	-26.700	PASS

11B_LCH_Graphs



Ref 20 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -0.64 dBm
VBW 300 kHz SWT 40 ms 2.413490000 GHz

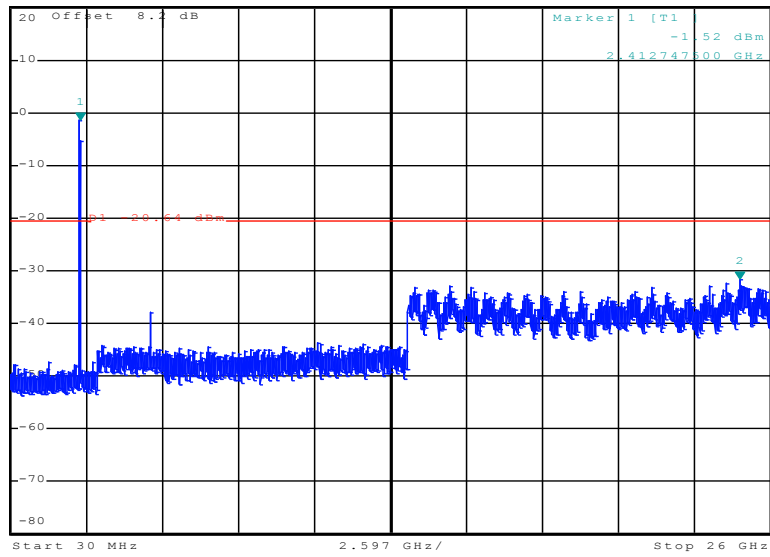


Pref/11B/LCH

Date: 19.SEP.2019 15:12:22



Ref 20 dBm Att 30 dB RBW 100 kHz Marker 2 [T1] -31.62 dBm
VBW 300 kHz SWT 2.6 s 24.935230000 GHz

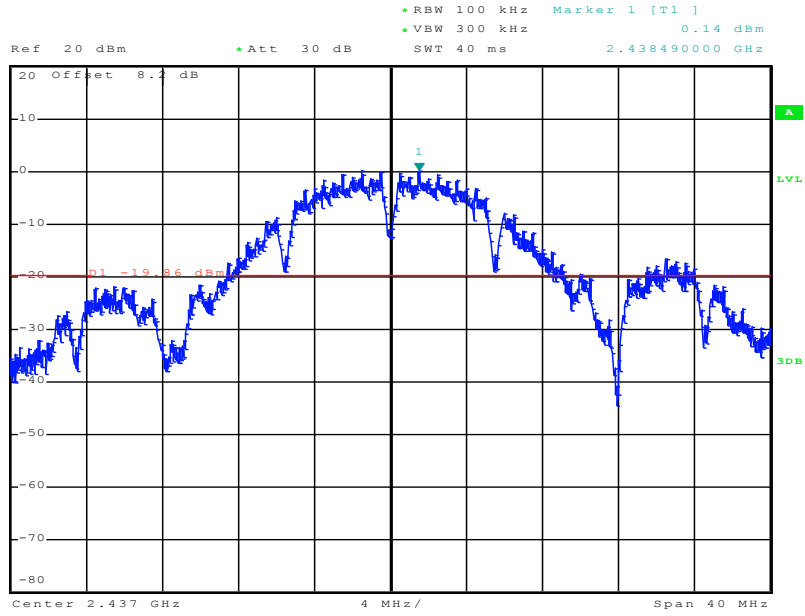


Puw/11B/LCH

Date: 19.SEP.2019 15:12:36

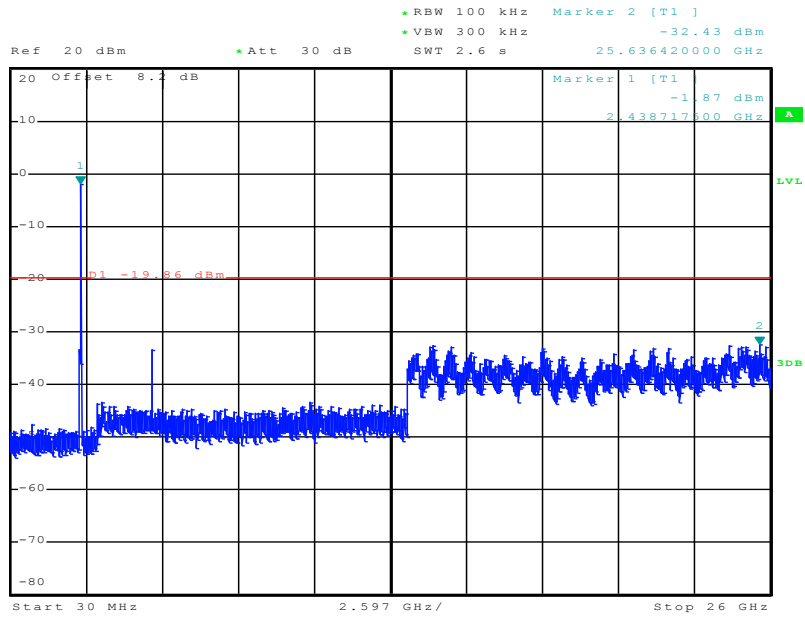
11B_MCH_Graphs

Pref/11B/MCH



Date: 19.SEP.2019 15:15:44

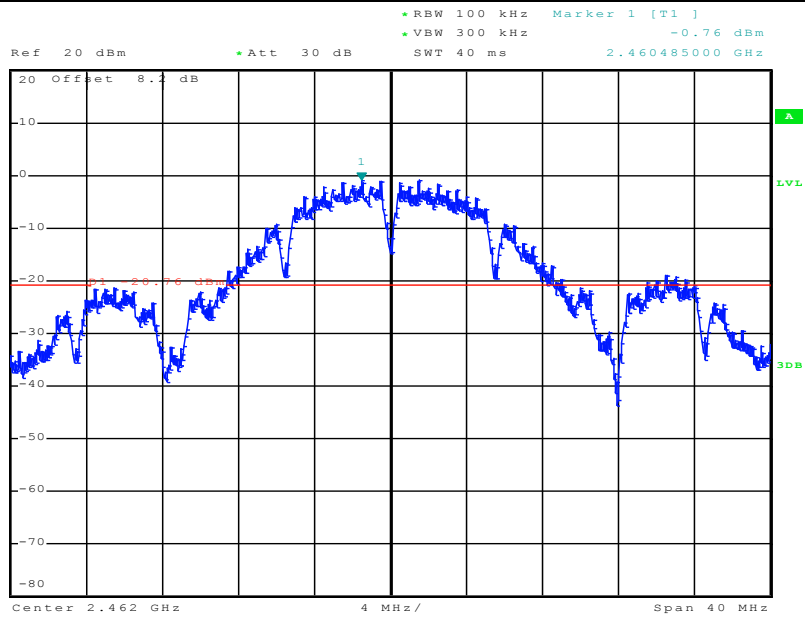
Puw/11B/MCH



Date: 19.SEP.2019 15:15:59

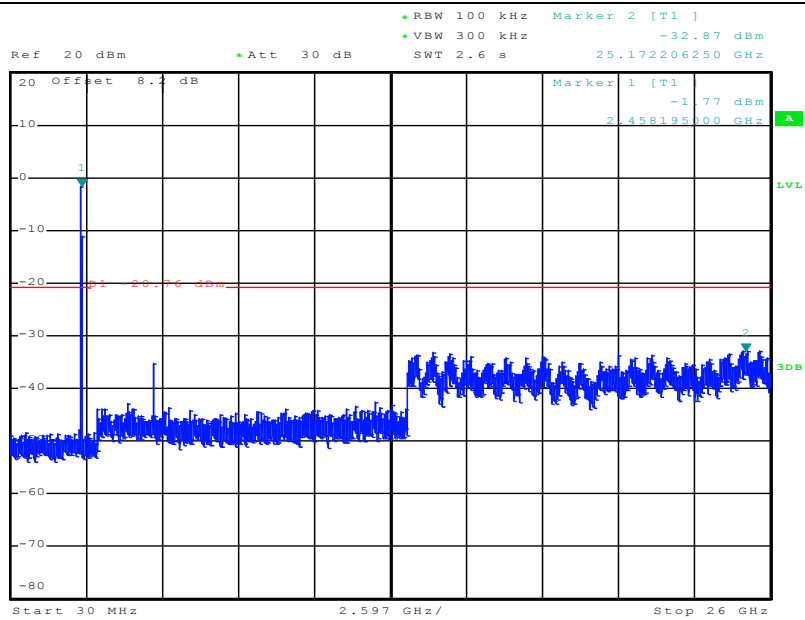
11B_HCH_Graphs

Pref/11B/HCH



Date: 19.SEP.2019 15:18:39

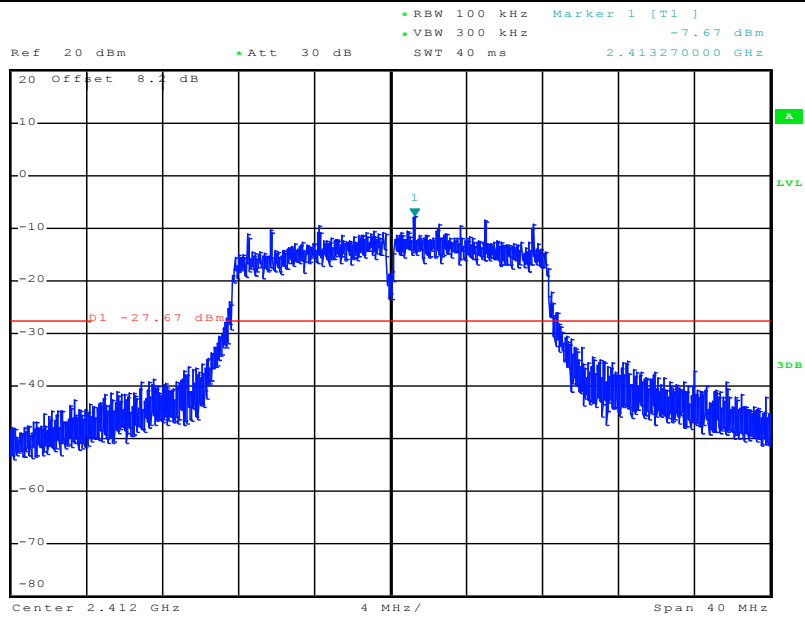
Puw/11B/HCH



Date: 19.SEP.2019 15:18:54

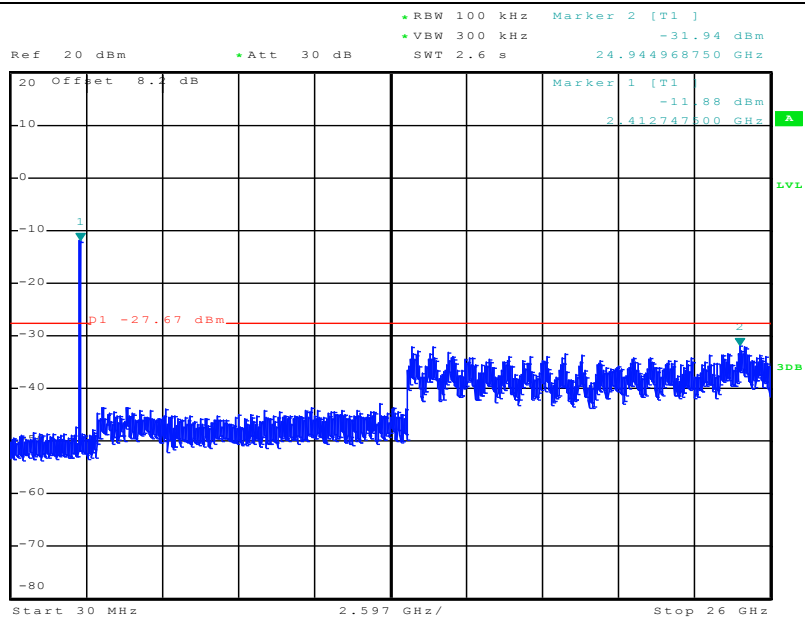
11G_LCH_Graphs

Pref/11G/LCH



Date: 19.SEP.2019 15:22:32

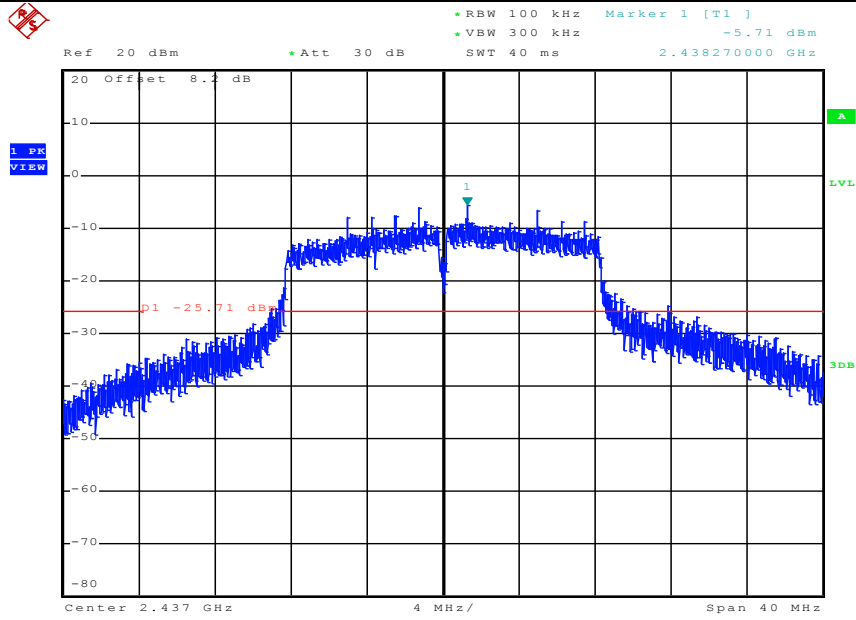
Puw/11G/LCH



Date: 19.SEP.2019 15:22:47

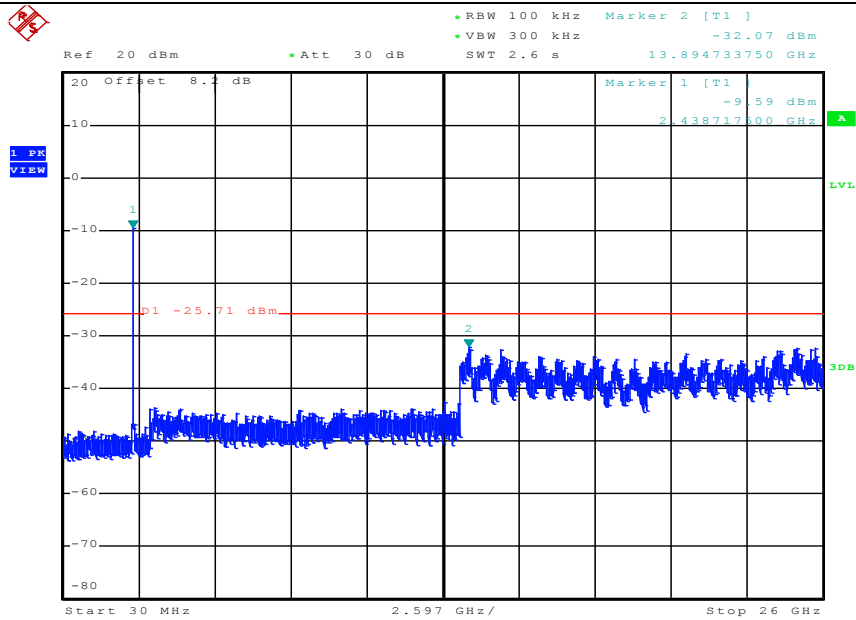
11G_MCH_Graphs

Pref/11G/MCH



Date: 19.SEP.2019 15:25:22

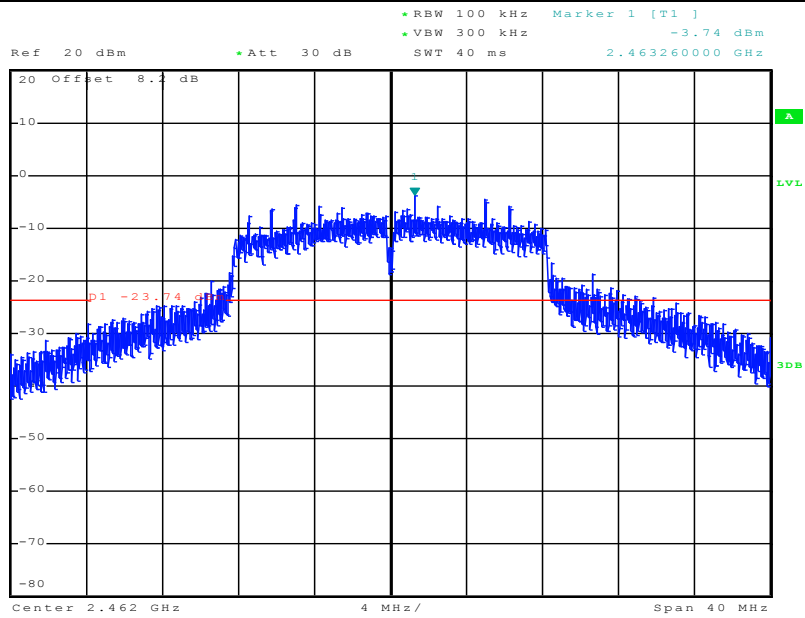
Puw/11G/MCH



Date: 19.SEP.2019 15:25:37

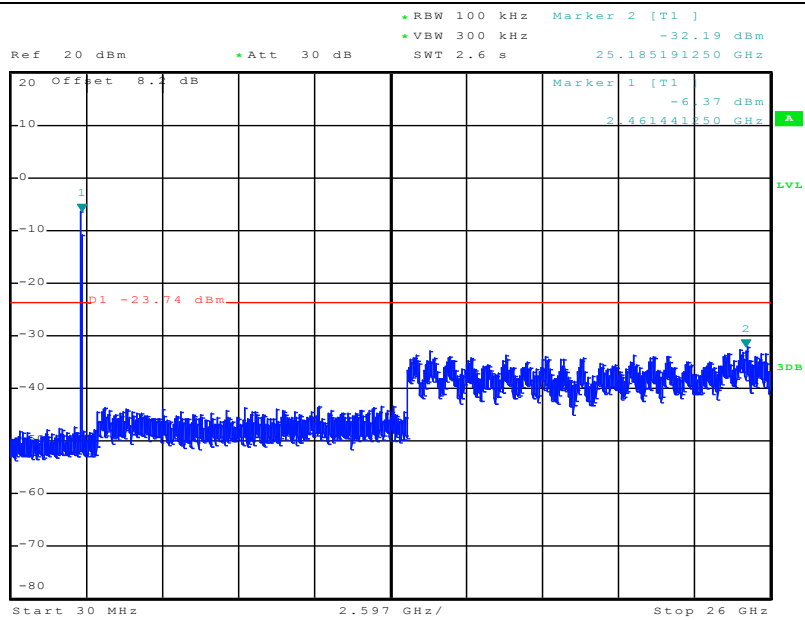
11G_HCH_Graphs

Pref/11G/HCH



Date: 19.SEP.2019 15:27:49

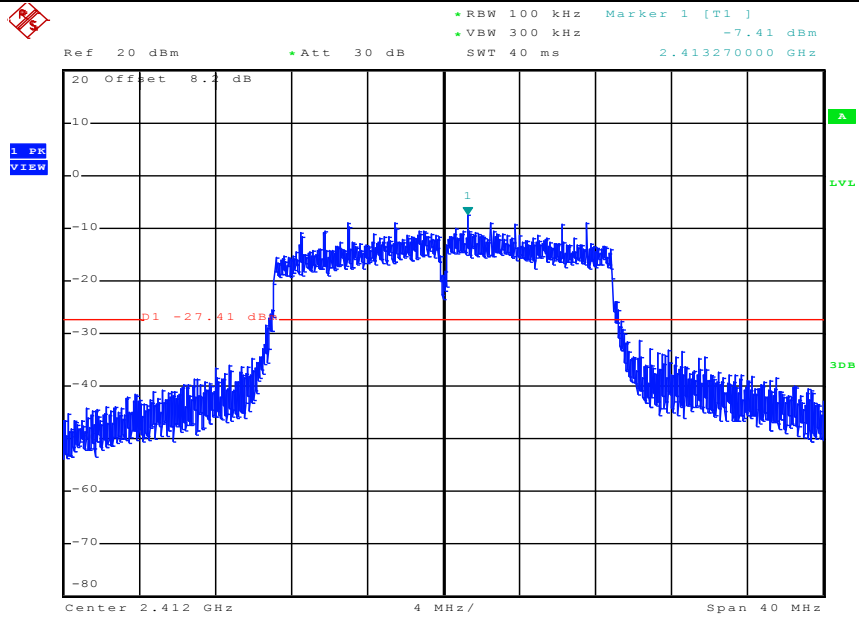
Puw/11G/HCH



Date: 19.SEP.2019 15:28:03

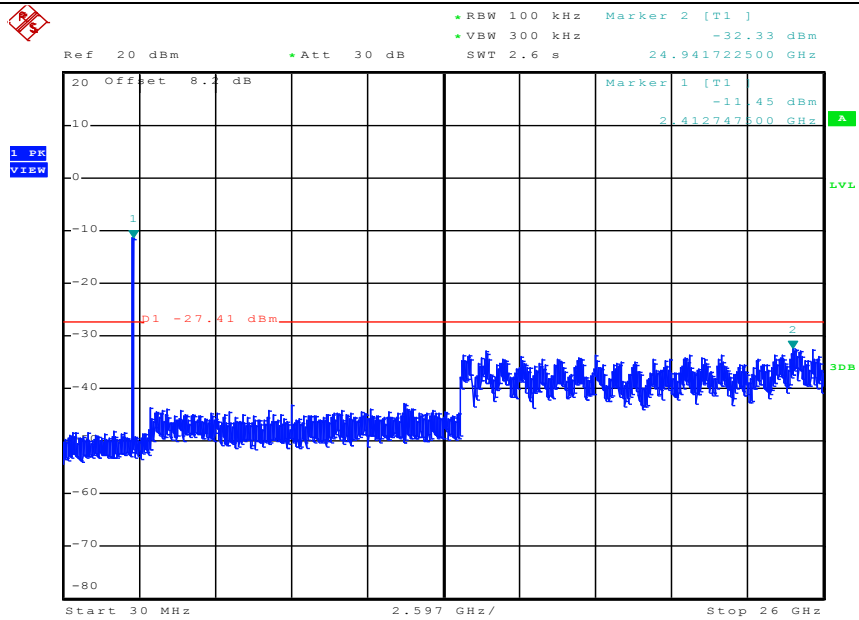
11N20SISO_LCH_Graphs

Pref/11N20SIS
O/LCH



Date: 19.SEP.2019 15:31:22

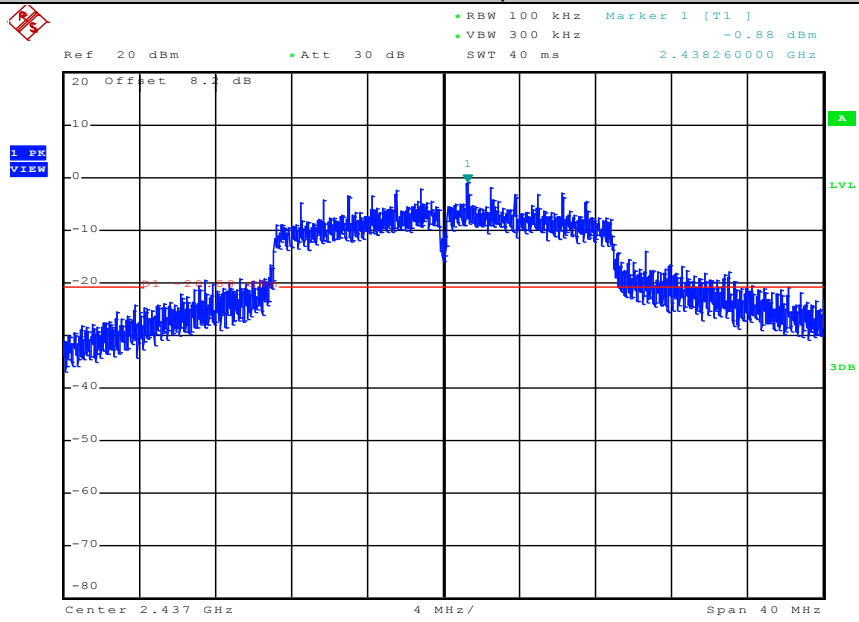
Puw/11N20
SISO/LCH



Date: 19.SEP.2019 15:31:37

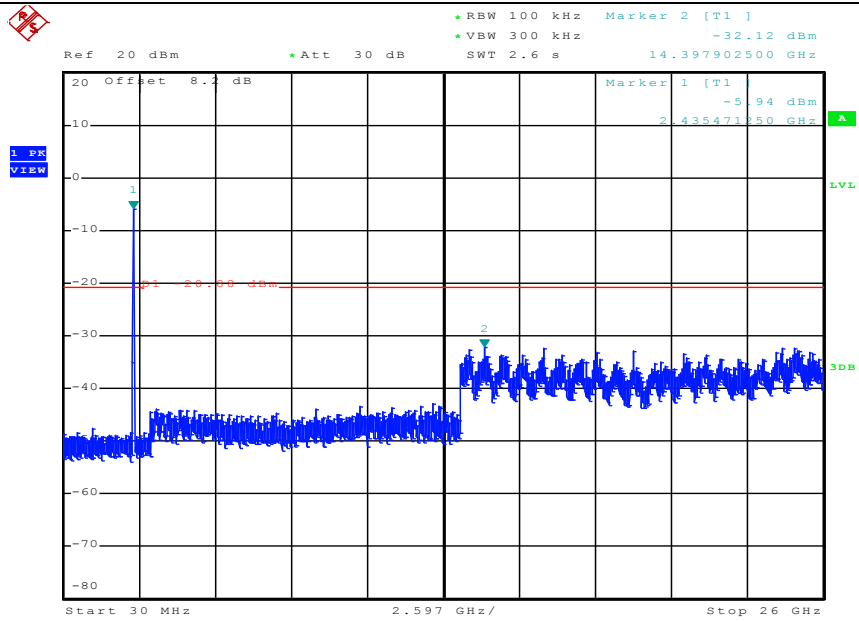
11N20SISO_MCH_Graphs

Pref/11N20
SISO/MCH



Date: 19.SEP.2019 15:34:12

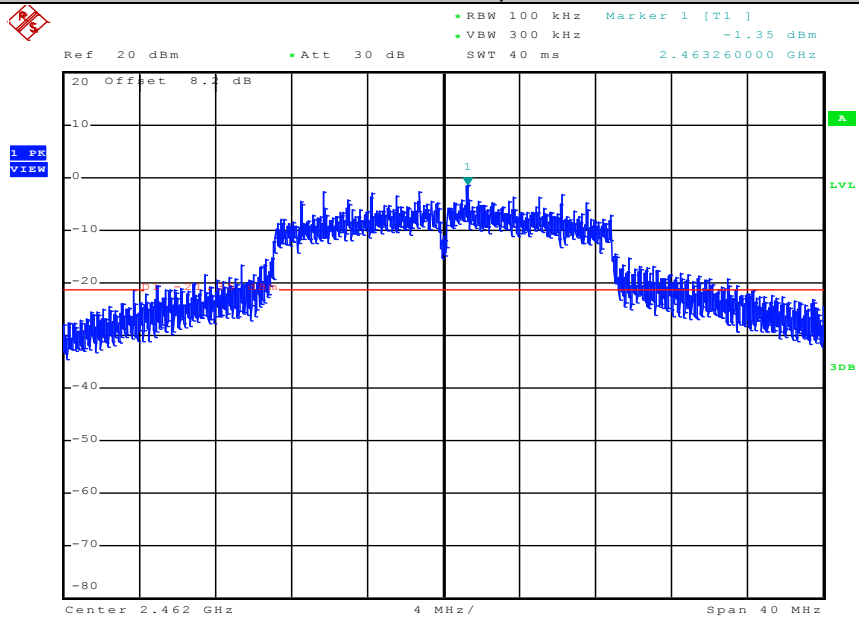
Puw/11N20
SISO/MCH



Date: 19.SEP.2019 15:34:27

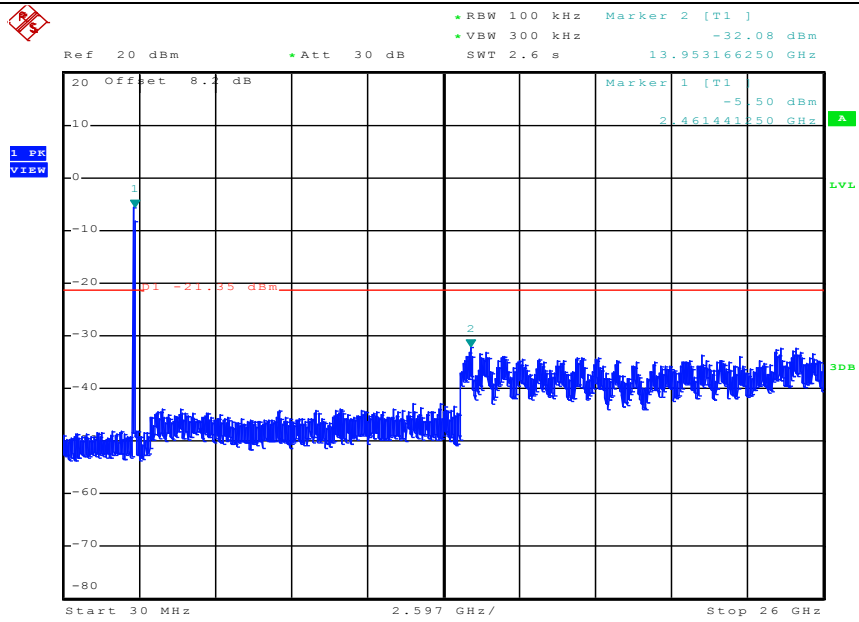
11N20SISO_HCH_Graphs

Pref/11N20
SISO/HCH



Date: 19.SEP.2019 15:36:16

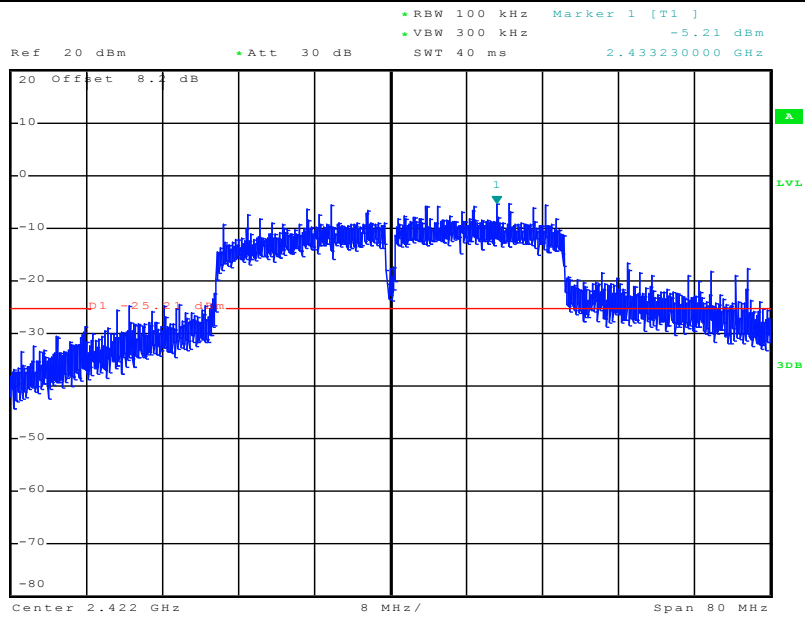
Puw/11N20
SISO/HCH



Date: 19.SEP.2019 15:36:31

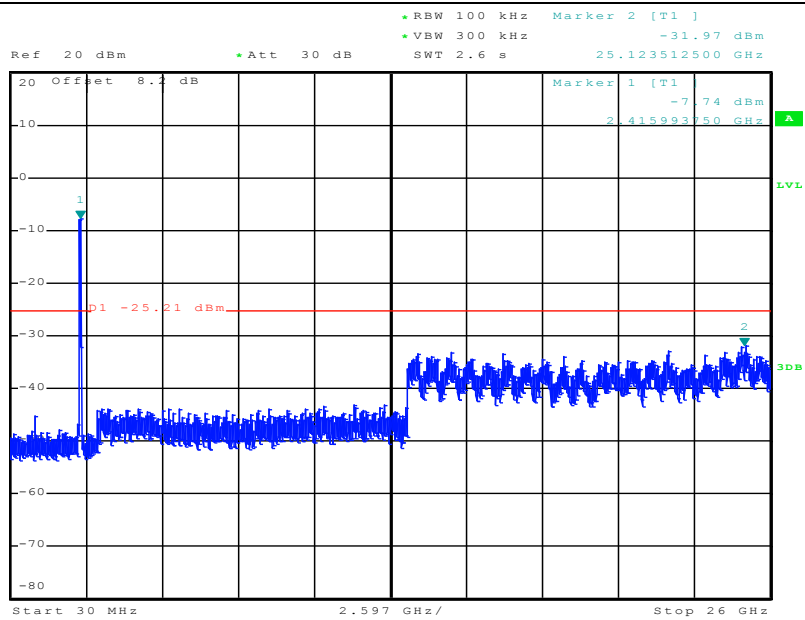
11N40SISO_LCH_Graphs

Pref/11N40
SISO/LCH



Date: 19.SEP.2019 15:40:26

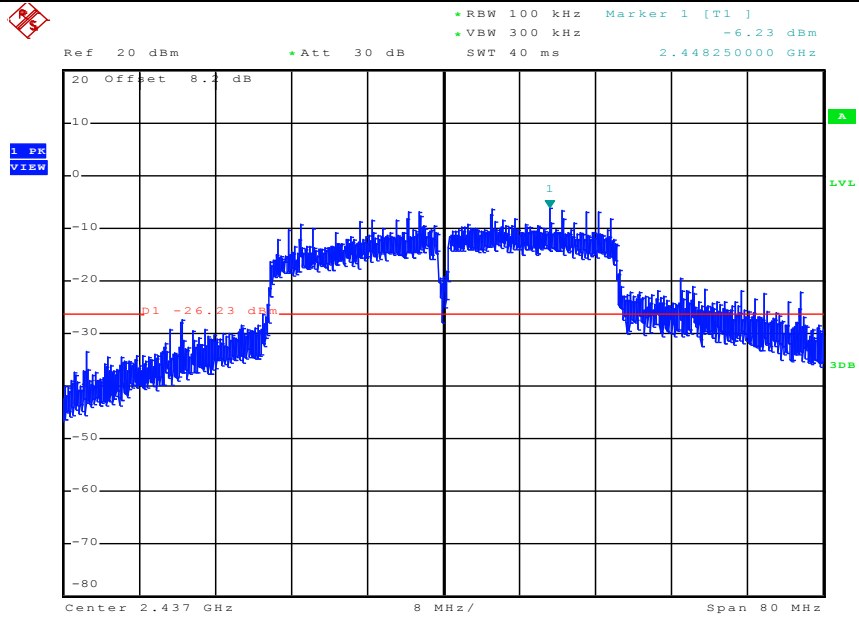
Puw/11N40
SISO/LCH



Date: 19.SEP.2019 15:40:40

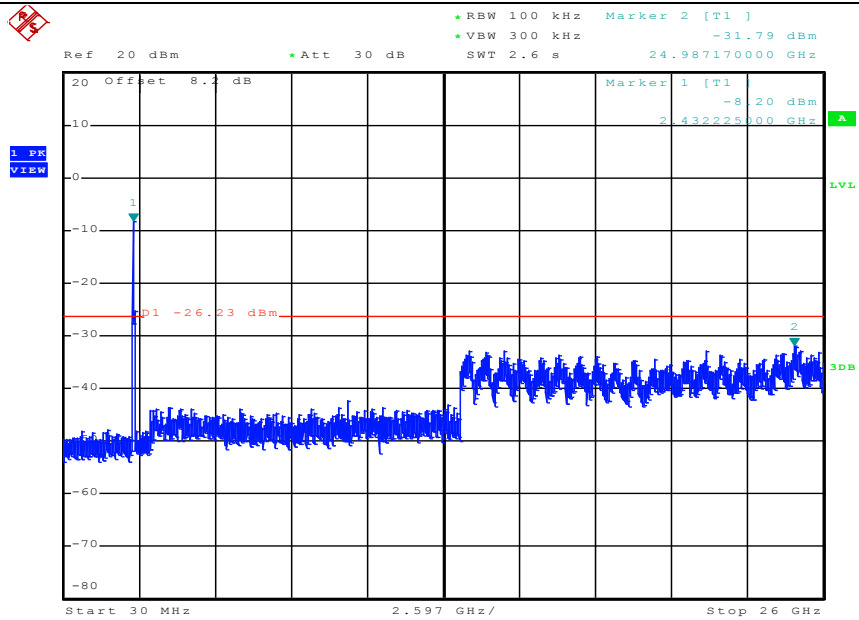
11N40SISO_MCH_Graphs

Pref/11N40
SISO/MCH



Date: 19.SEP.2019 15:45:54

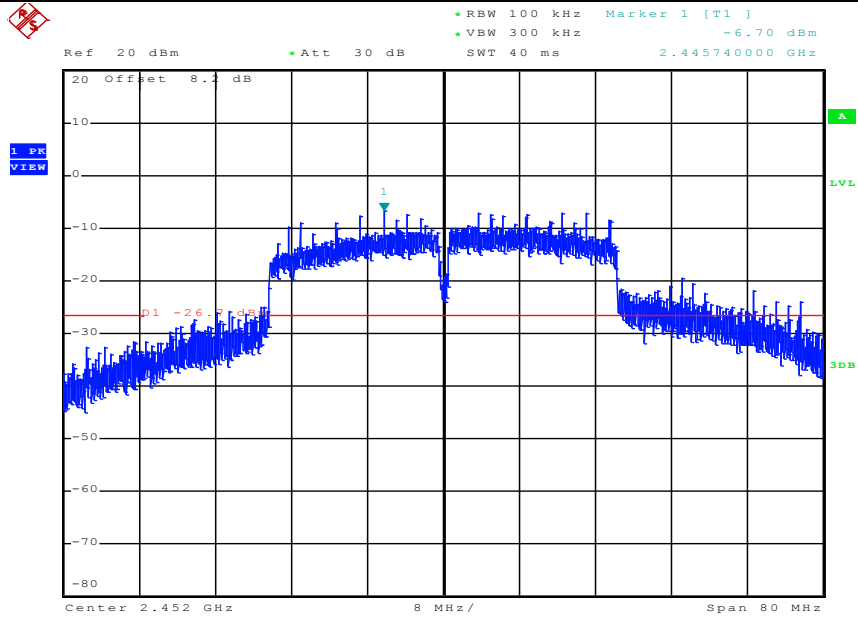
Puw/11N40
SISO/MCH



Date: 19.SEP.2019 15:46:09

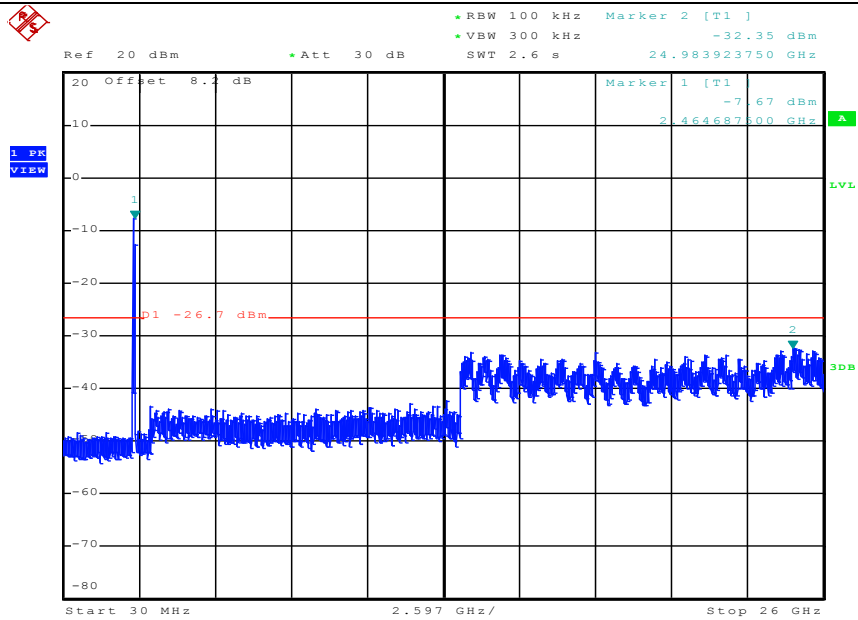
11N40SISO_HCH_Graphs

Pref/11N40
SISO/HCH



Date: 19.SEP.2019 15:49:38

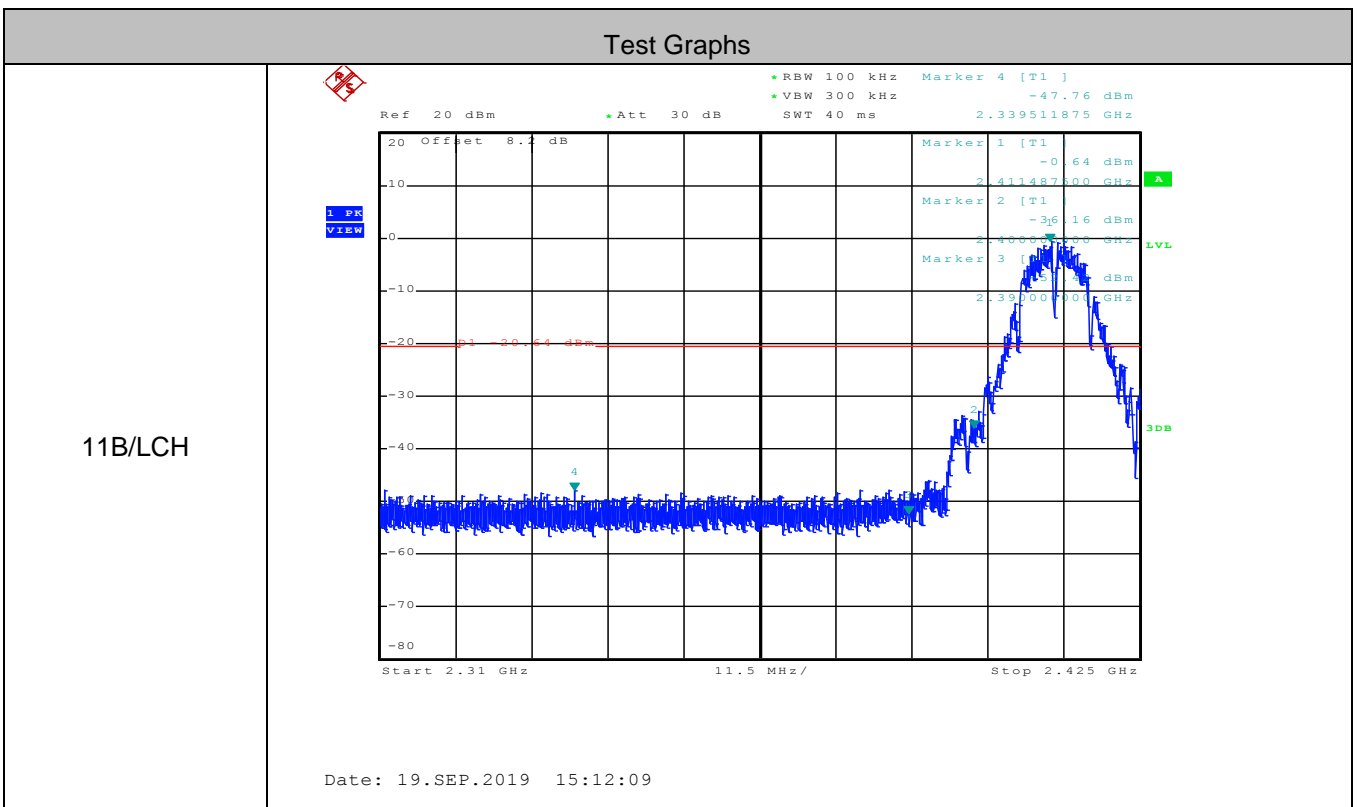
Puw/11N40
SISO/HCH



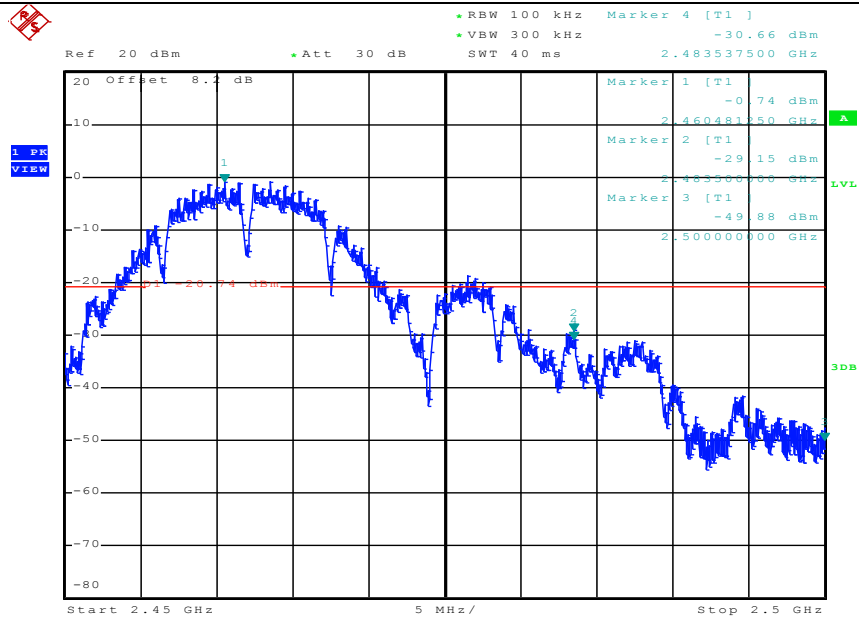
Date: 19.SEP.2019 15:49:52

C.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-0.640	-47.756	-20.64	PASS
	HCH	-0.740	-30.662	-20.74	PASS
11G	LCH	-8.250	-47.622	-28.25	PASS
	HCH	-3.890	-35.507	-23.89	PASS
11N20SISO	LCH	-7.610	-47.564	-27.61	PASS
	HCH	-1.710	-27.031	-21.71	PASS
11N40SISO	LCH	-5.240	-30.206	-25.24	PASS
	HCH	-11.150	-36.680	-31.15	PASS

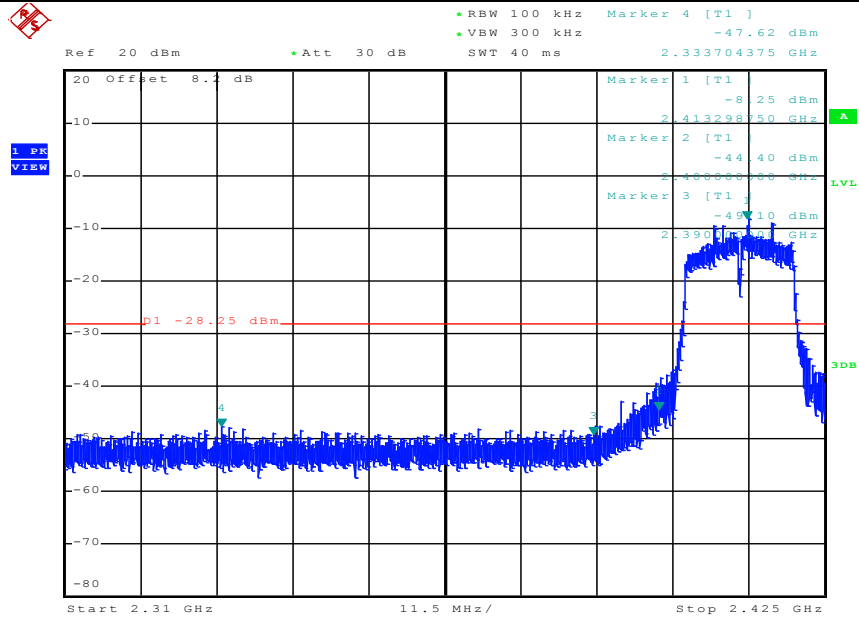


11B/HCH



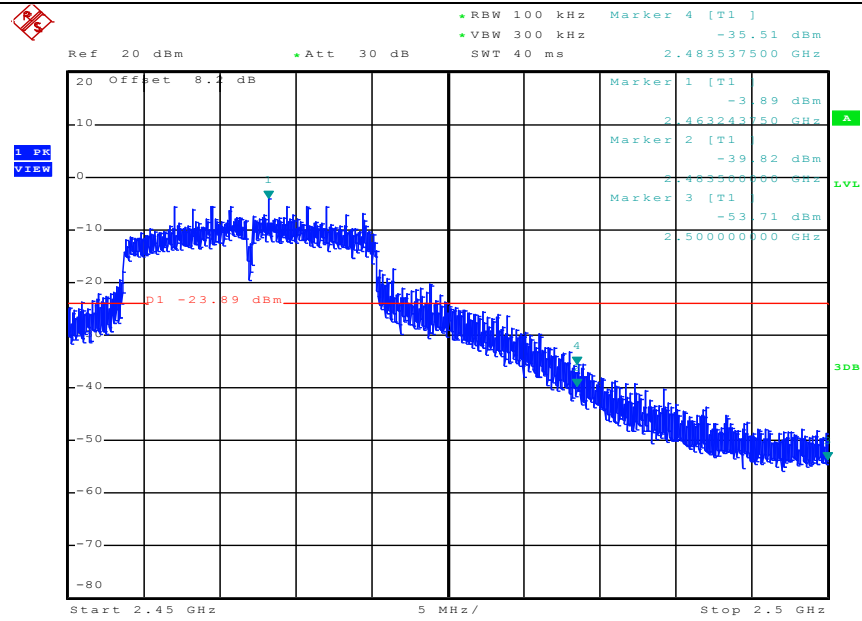
Date: 19.SEP.2019 15:18:26

11G/LCH



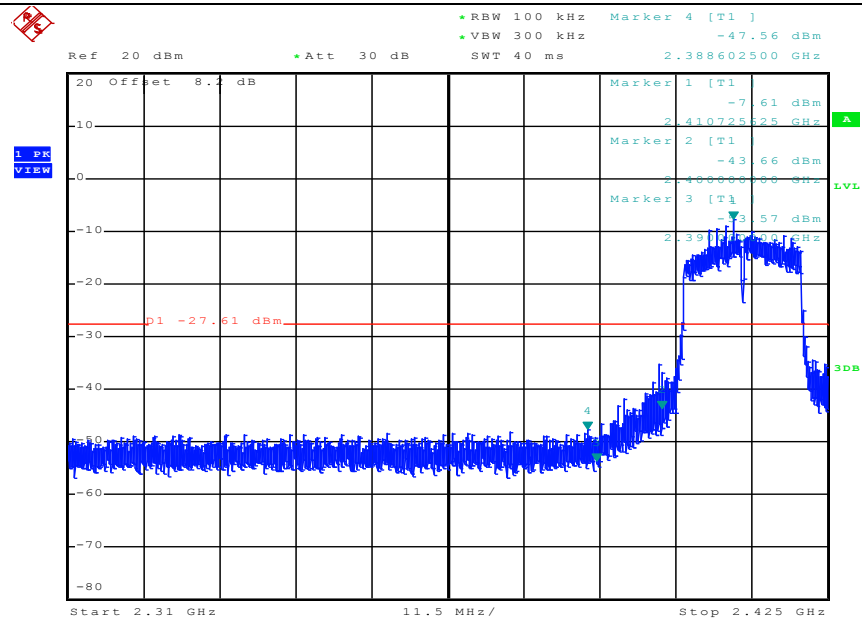
Date: 19.SEP.2019 15:22:19

11G/HCH



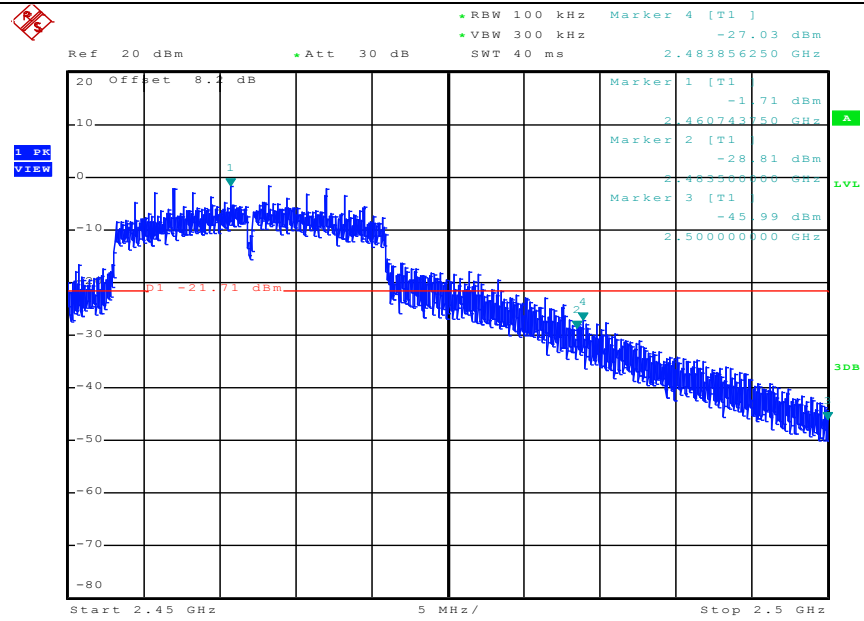
Date: 19.SEP.2019 15:27:36

11N20SISO/LCH



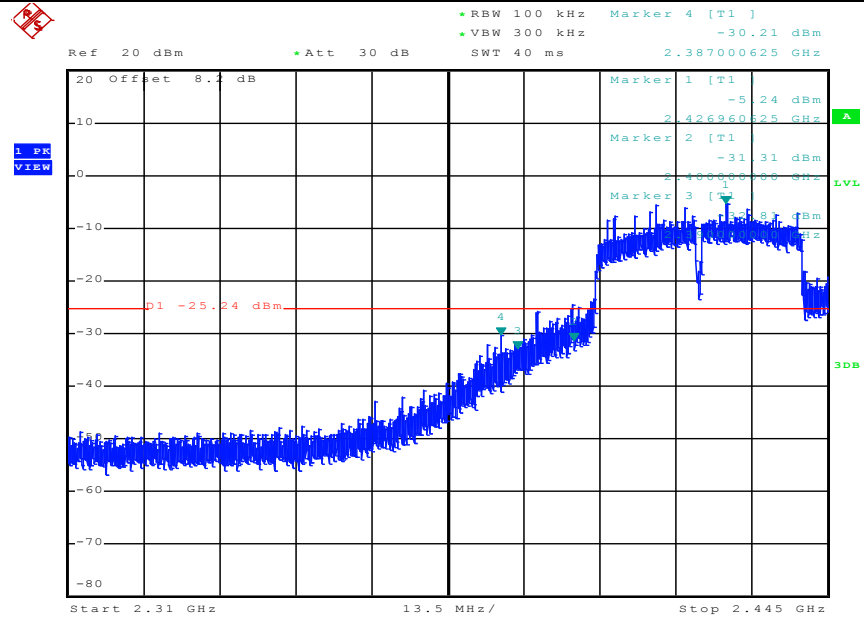
Date: 19.SEP.2019 15:31:09

11N20SISO/HCH



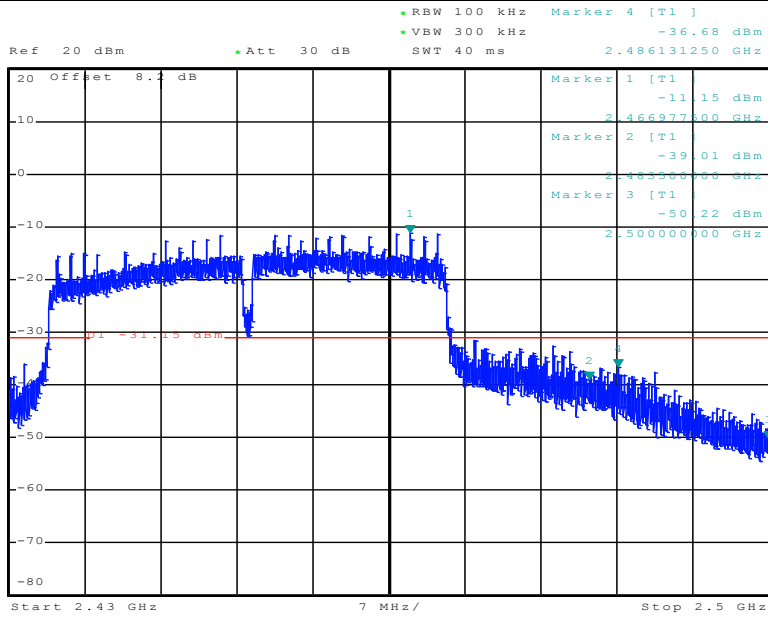
Date: 19.SEP.2019 15:36:03

11N40SISO/LCH



Date: 19.SEP.2019 15:40:13

11N40SISO/HCH



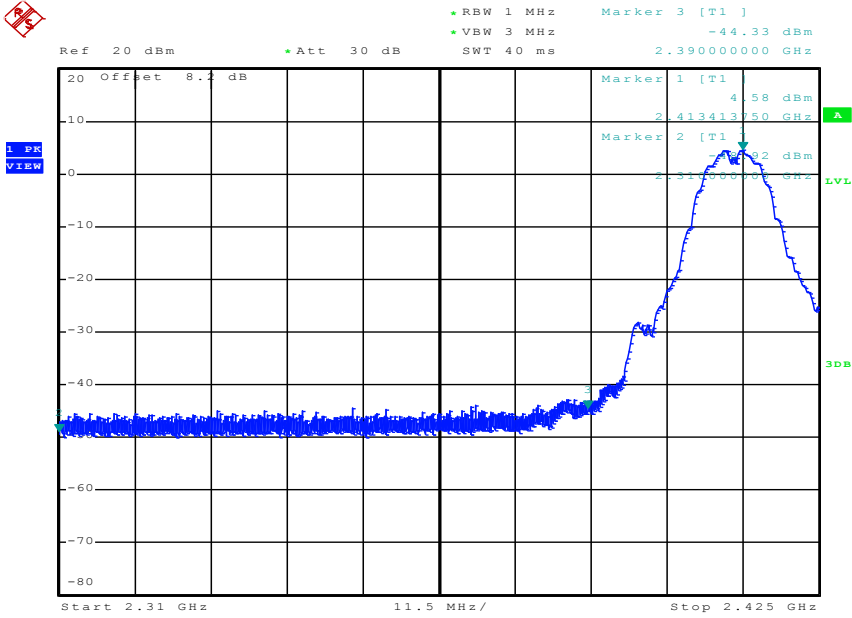
Date: 19.SEP.2019 15:50:29

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	-48.92	2.0	0	46.34	PEAK	74	PASS
	2412	Ant1	2310.0	-57.82	2.0	0	37.44	AV	54	PASS
	2412	Ant1	2390.0	-44.33	2.0	0	50.93	PEAK	74	PASS
	2412	Ant1	2390.0	-53.86	2.0	0	41.40	AV	54	PASS
	2462	Ant1	2483.5	-46.95	2.0	0	48.31	PEAK	74	PASS
	2462	Ant1	2483.5	-57.66	2.0	0	37.60	AV	54	PASS
	2462	Ant1	2500.0	-48.26	2.0	0	47.00	PEAK	74	PASS
	2462	Ant1	2500.0	-57.97	2.0	0	37.29	AV	54	PASS
11G	2412	Ant1	2310.0	-48.31	2.0	0	46.95	PEAK	74	PASS
	2412	Ant1	2310.0	-57.83	2.0	0	37.43	AV	54	PASS
	2412	Ant1	2390.0	-44.56	2.0	0	50.70	PEAK	74	PASS
	2412	Ant1	2390.0	-55.78	2.0	0	39.48	AV	54	PASS
	2462	Ant1	2483.5	-30.02	2.0	0	65.24	PEAK	74	PASS
	2462	Ant1	2483.5	-50.99	2.0	0	44.27	AV	54	PASS
	2462	Ant1	2500.0	-48.15	2.0	0	47.11	PEAK	74	PASS
	2462	Ant1	2500.0	-57.36	2.0	0	37.90	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-48.56	2.0	0	46.70	PEAK	74	PASS
	2412	Ant1	2310.0	-57.81	2.0	0	37.45	AV	54	PASS
	2412	Ant1	2390.0	-36.96	2.0	0	58.30	PEAK	74	PASS
	2412	Ant1	2390.0	-54.71	2.0	0	40.55	AV	54	PASS
	2462	Ant1	2483.5	-29.14	2.0	0	66.12	PEAK	74	PASS
	2462	Ant1	2483.5	-43.41	2.0	0	51.85	AV	54	PASS
	2462	Ant1	2500.0	-47.83	2.0	0	47.43	PEAK	74	PASS
	2462	Ant1	2500.0	-56.94	2.0	0	38.32	AV	54	PASS
11N40 SISO	2422	Ant1	2310.0	-47.46	2.0	0	47.80	PEAK	74	PASS
	2422	Ant1	2310.0	-57.81	2.0	0	37.45	AV	54	PASS

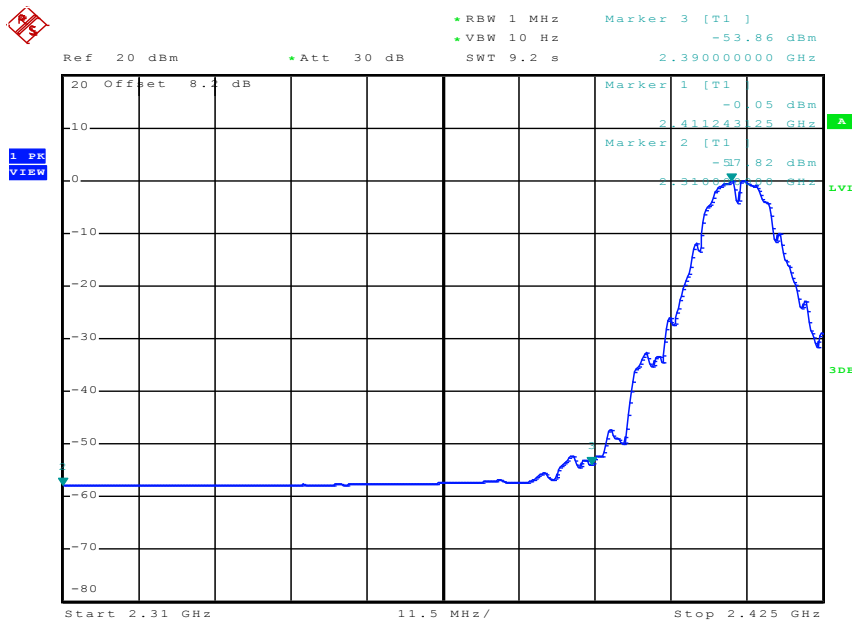
	2422	Ant1	2390.0	-32.14	2.0	0	63.12	PEAK	74	PASS
	2422	Ant1	2390.0	-49.63	2.0	0	45.63	AV	54	PASS
	2452	Ant1	2483.5	-25.10	2.0	0	70.16	PEAK	74	PASS
	2452	Ant1	2483.5	-41.37	2.0	0	53.89	AV	54	PASS
	2452	Ant1	2500.0	-41.99	2.0	0	53.27	PEAK	74	PASS
	2452	Ant1	2500.0	-53.91	2.0	0	41.35	AV	54	PASS

Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



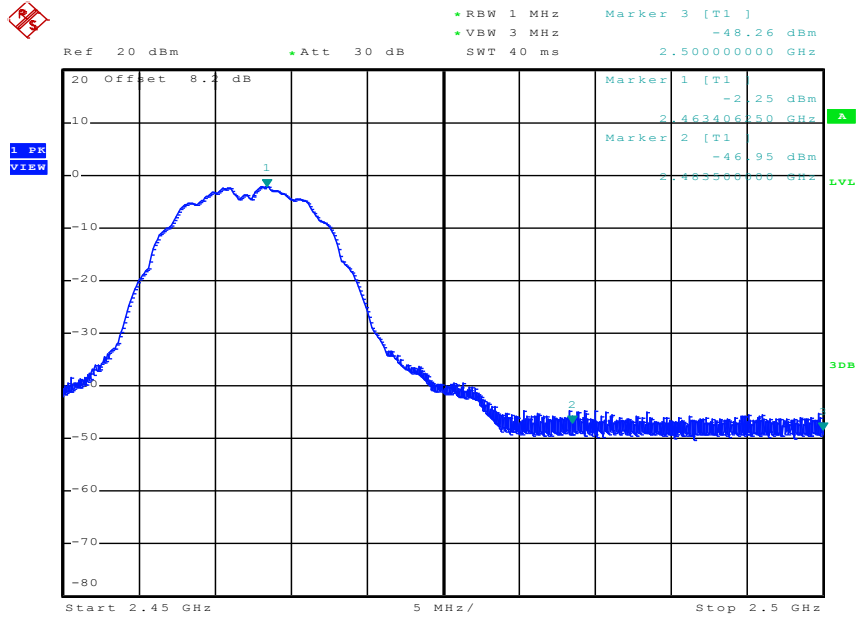
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Restrict-band band-edge measurements_11B_2412_Ant1_AV



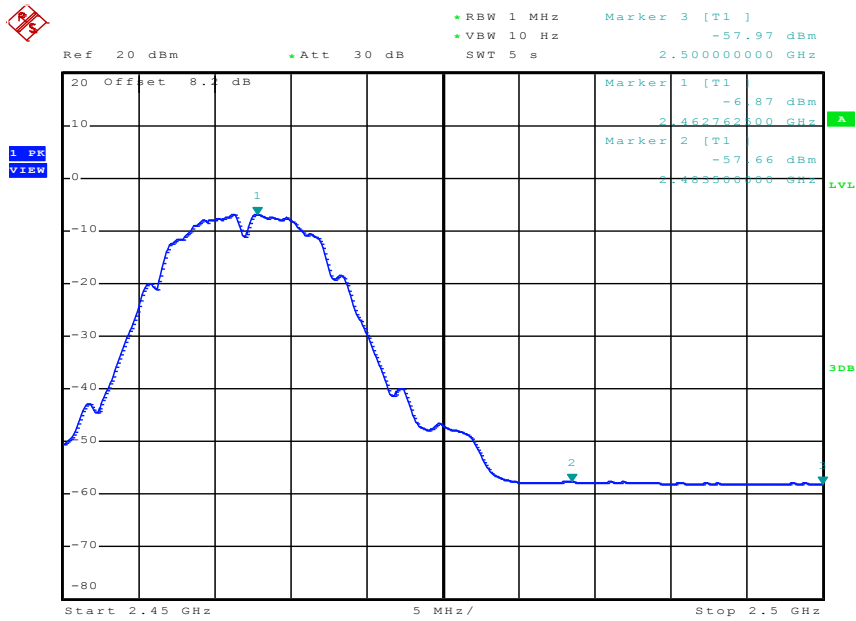
Date: 19.SEP.2019 15:13:58

Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



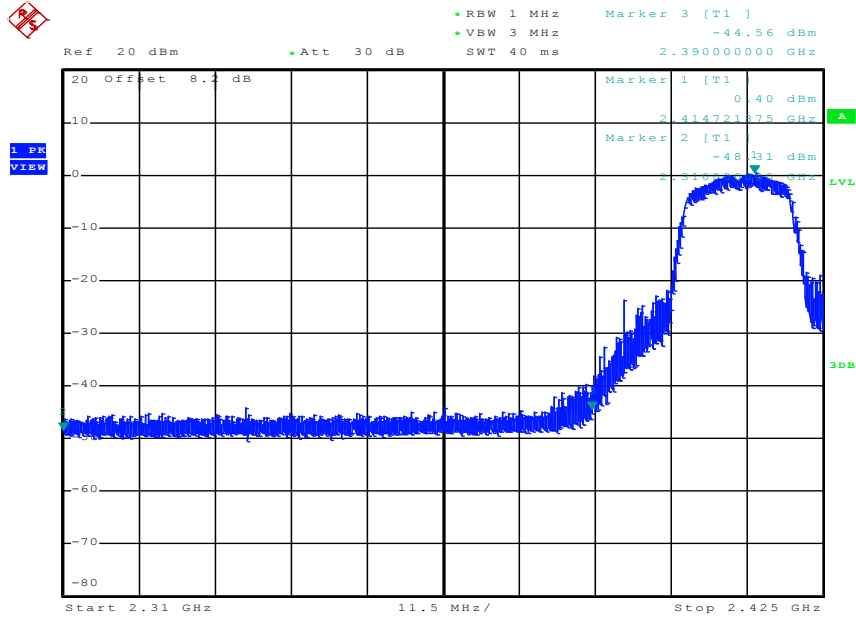
Date: 19.SEP.2019 15:20:19

Restrict-band band-edge measurements_11B_2462_Ant1_AV



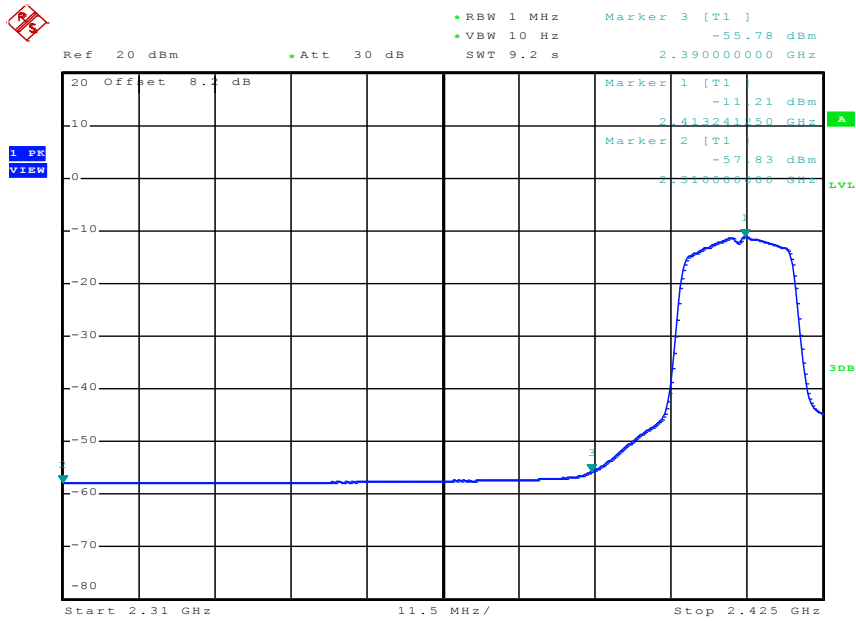
Date: 19.SEP.2019 15:20:50

Restrict-band band-edge measurements_11G_2412_Ant1_PEAK



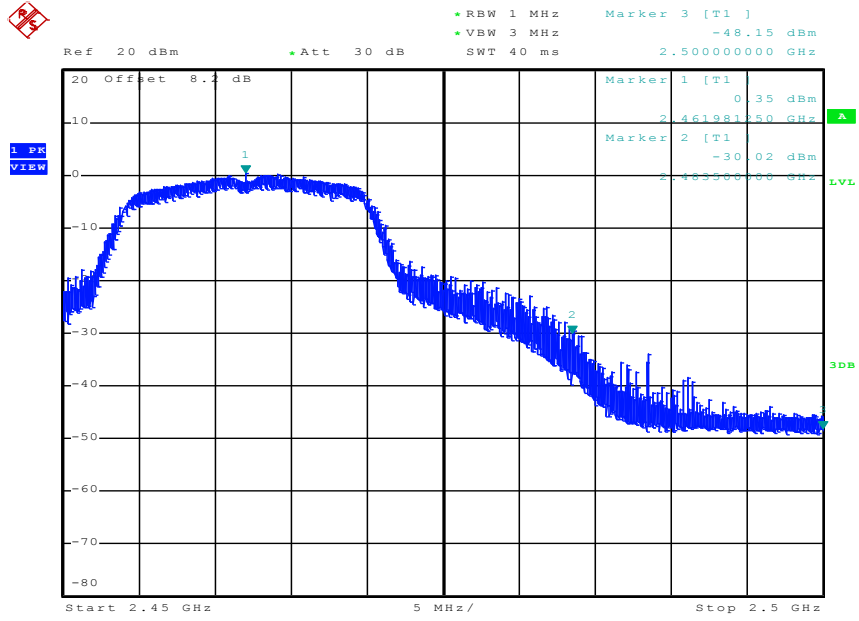
Date: 19.SEP.2019 15:23:06

Restrict-band band-edge measurements_11G_2412_Ant1_AV



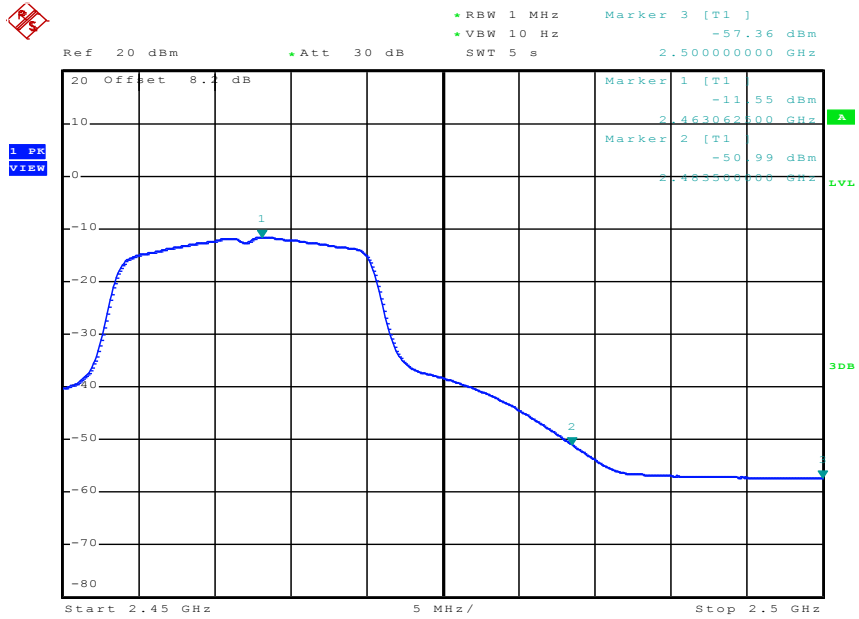
Date: 19.SEP.2019 15:23:25

Restrict-band band-edge measurements_11G_2462_Ant1_PEAK



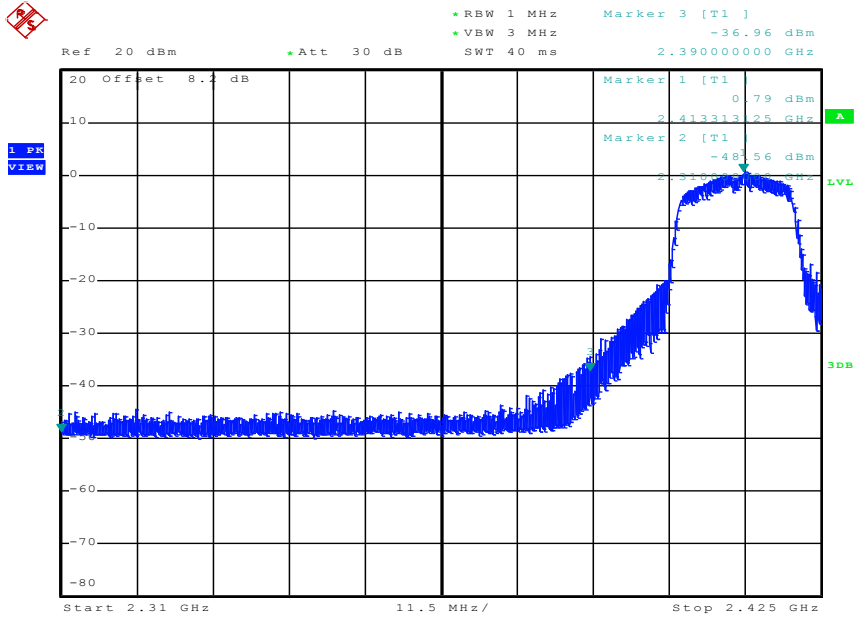
Date: 19.SEP.2019 15:29:18

Restrict-band band-edge measurements_11G_2462_Ant1_AV



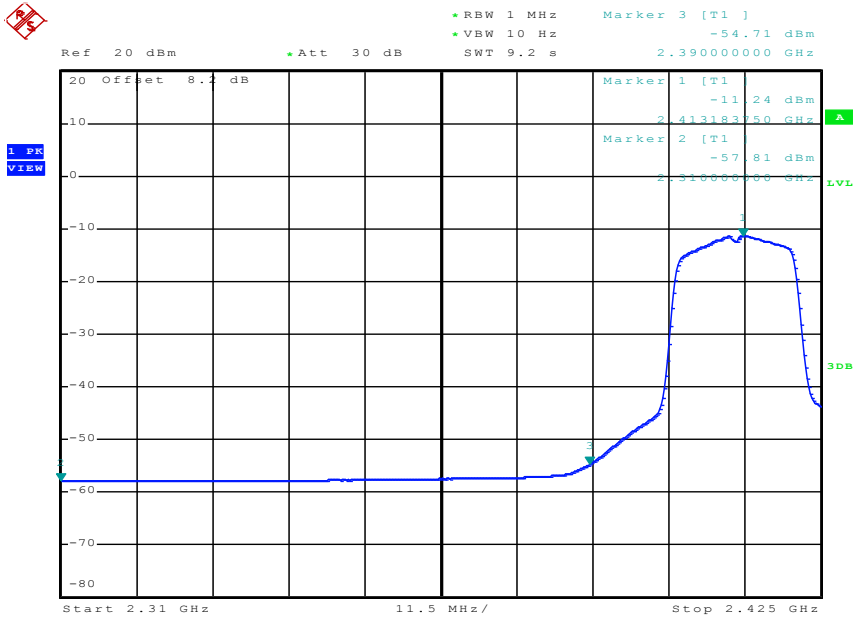
Date: 19.SEP.2019 15:29:33

Restrict-band band-edge measurements_11N20SISO_2412_Ant1_PEAK



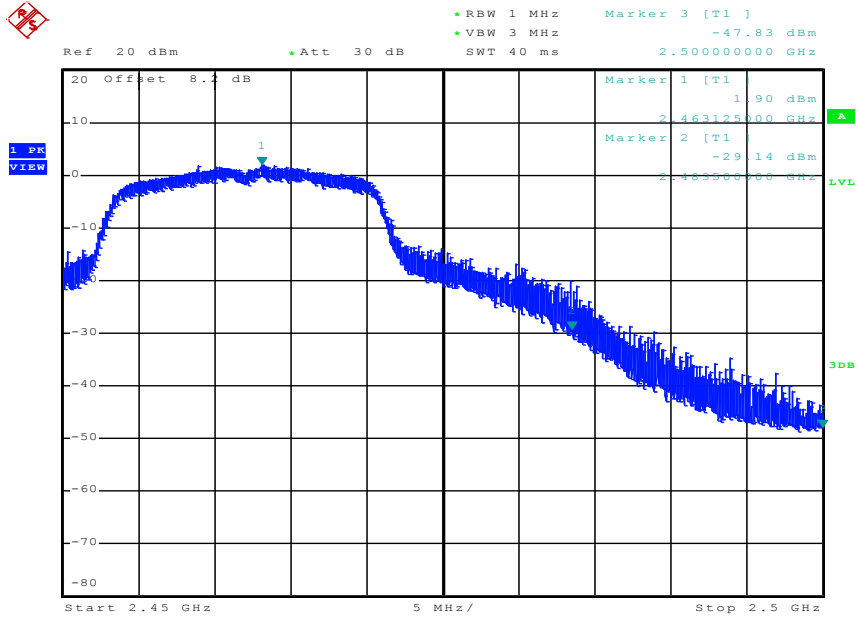
Date: 19.SEP.2019 15:31:56

Restrict-band band-edge measurements_11N20SISO_2412_Ant1_AV



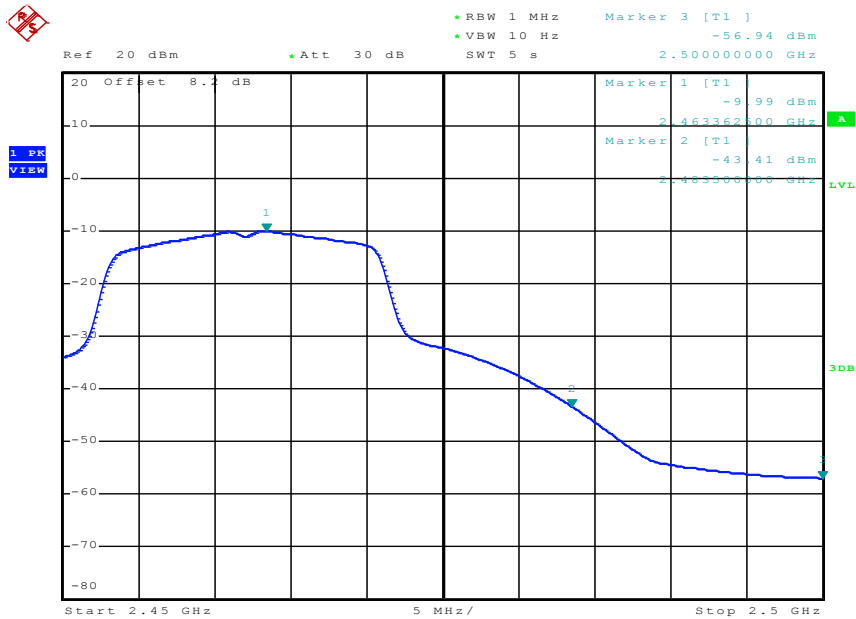
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Restrict-band band-edge measurements_11N20SISO_2462_Ant1_PEAK



Date: 19.SEP.2019 15:37:11

Restrict-band band-edge measurements_11N20SISO_2462_Ant1_AV

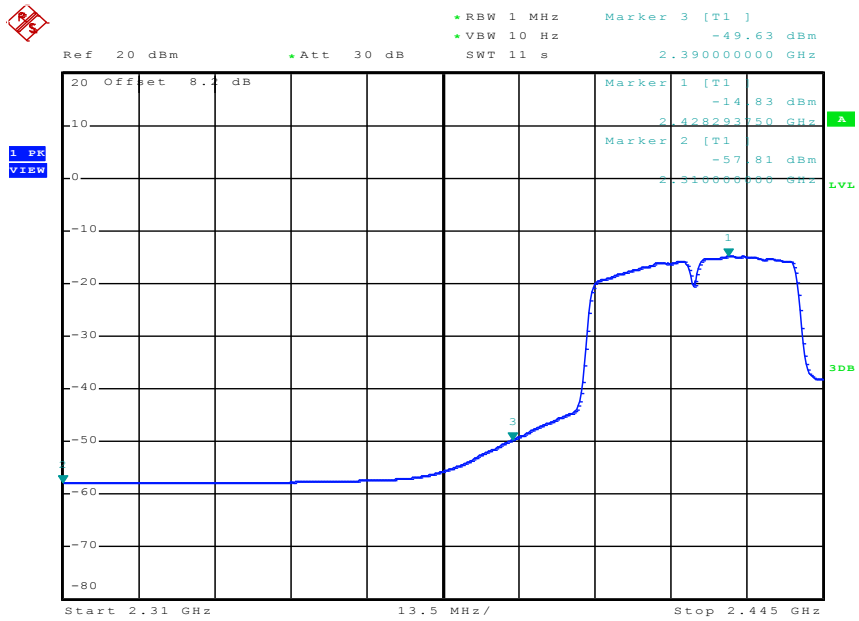


Date: 19.SEP.2019 15:37:27

Restrict-band band-edge measurements_11N40SISO_2422_Ant1_PEAK

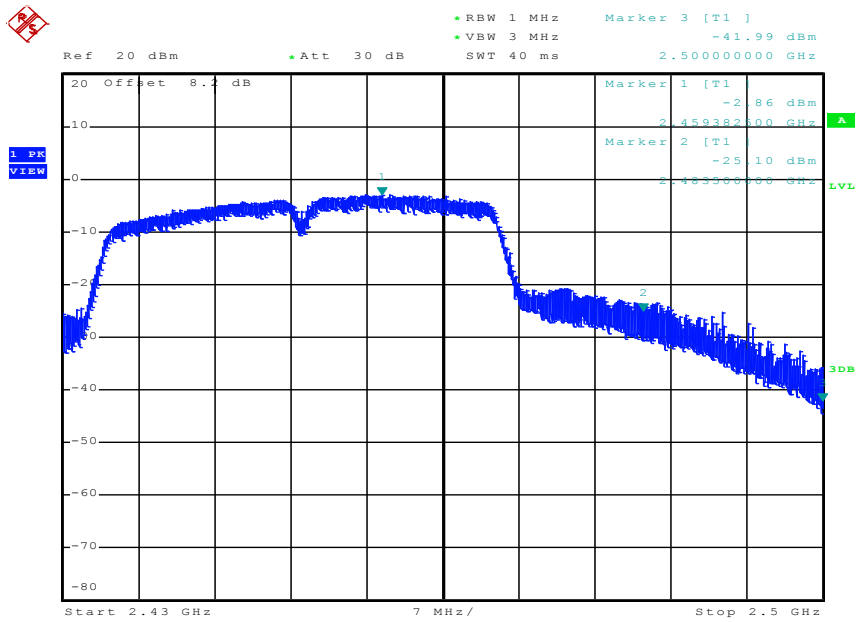


Restrict-band band-edge measurements_11N40SISO_2422_Ant1_AV



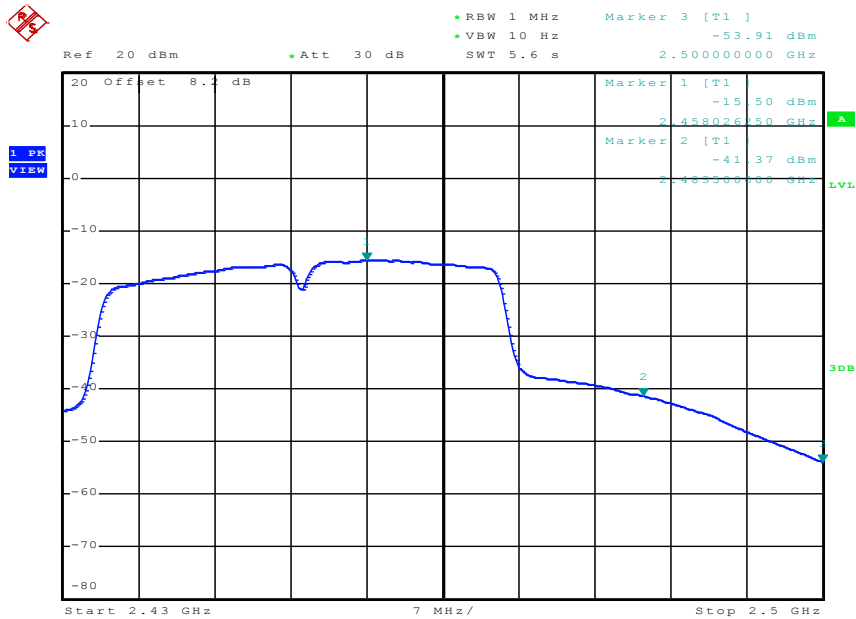
Date: 19.SEP.2019 15:43:59

Restrict-band band-edge measurements_11N40SISO_2452_Ant1_PEAK



Date: 19.SEP.2019 15:50:45

Restrict-band band-edge measurements_11N40SISO_2452_Ant1_AV



Date: 19.SEP.2019 15:51:00