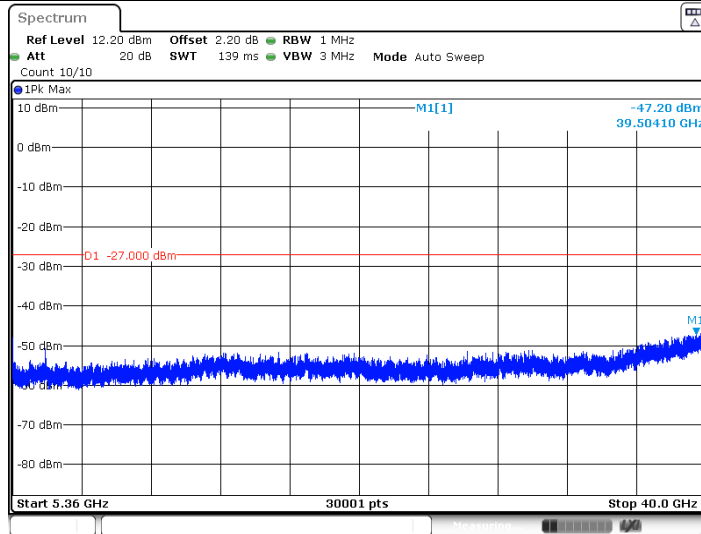
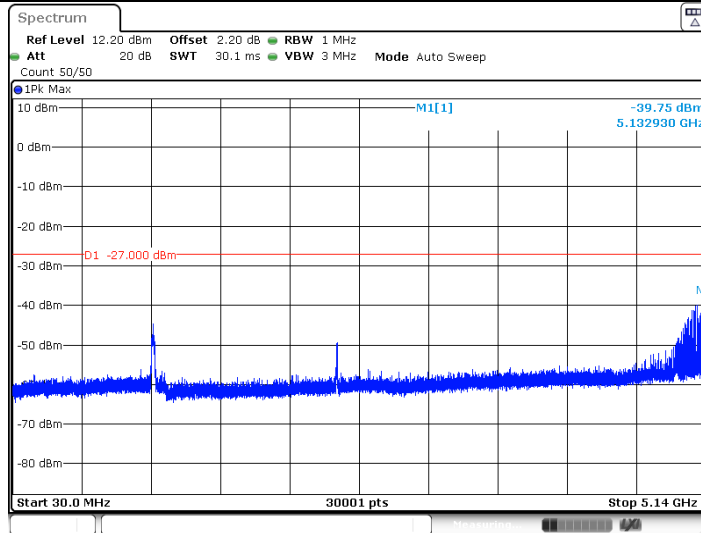


11AC40SISO_Ant1_5230_5360~40000



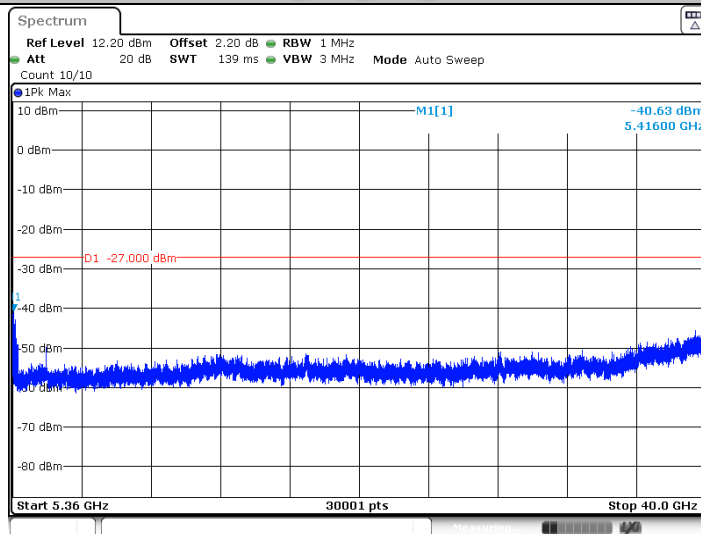
Date: 10 APR 2020 14:37:48

11AC40SISO_Ant1_5270_30~5140



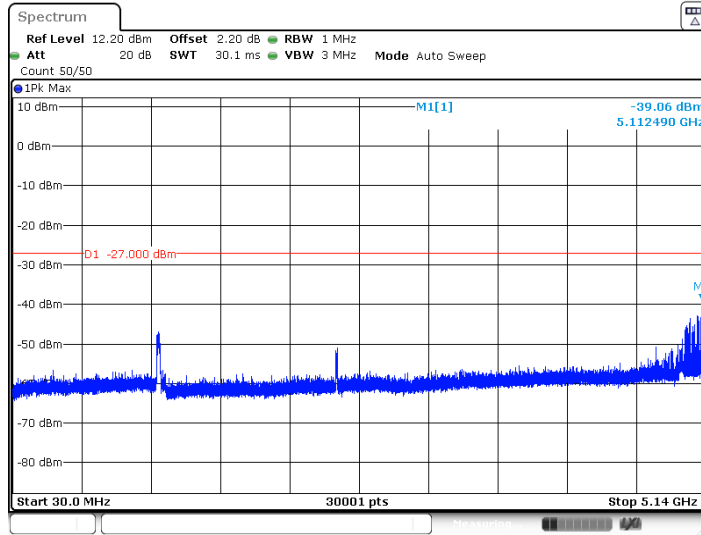
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11AC40SISO_Ant1_5270_5360~40000

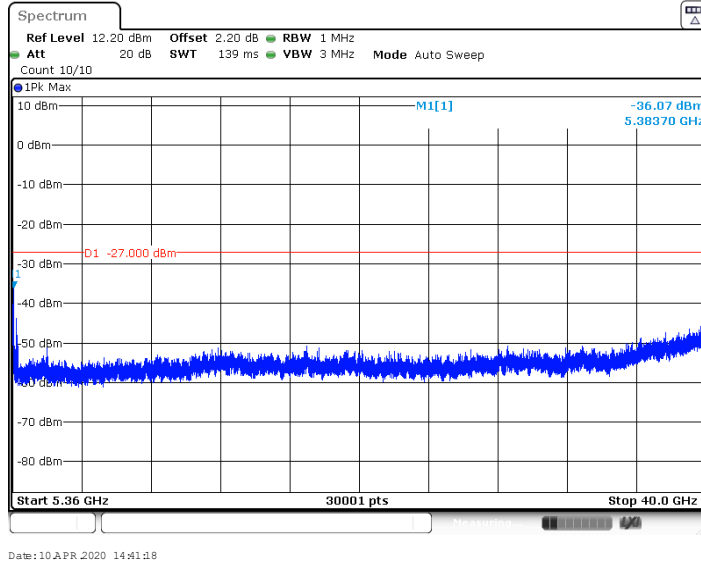


Date: 10 APR 2020 14:39:36

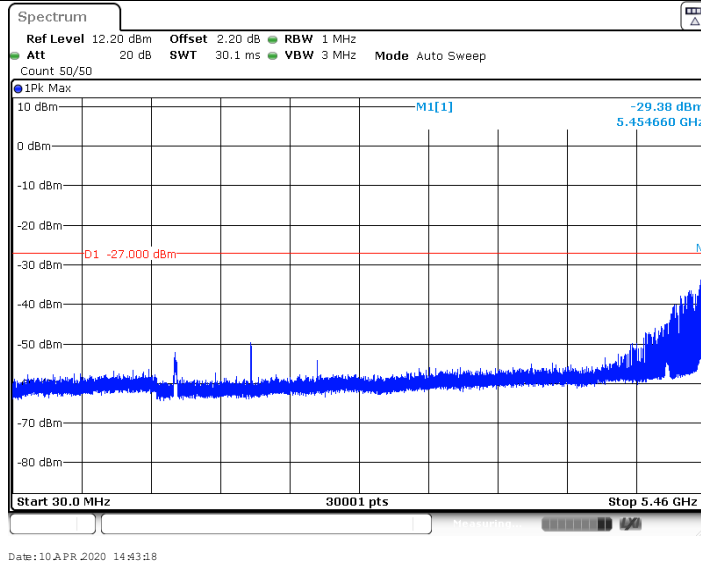
11AC40SISO_Ant1_5310_30~5140



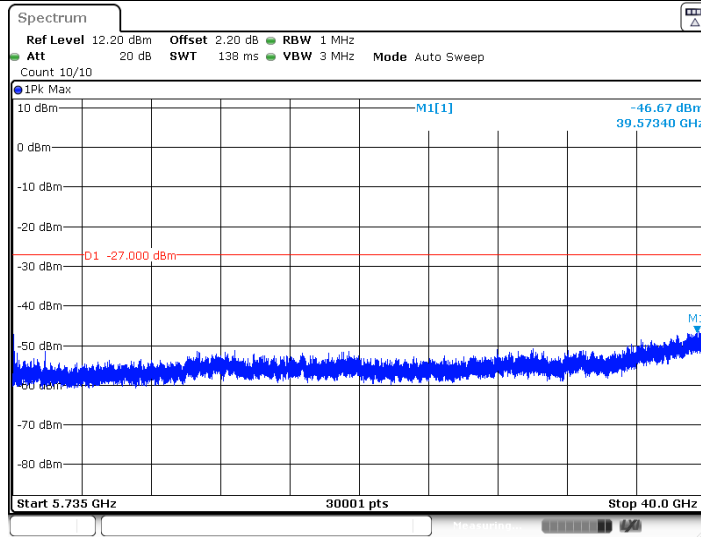
11AC40SISO_Ant1_5310_5360~40000



11AC40SISO_Ant1_5510_30~5460

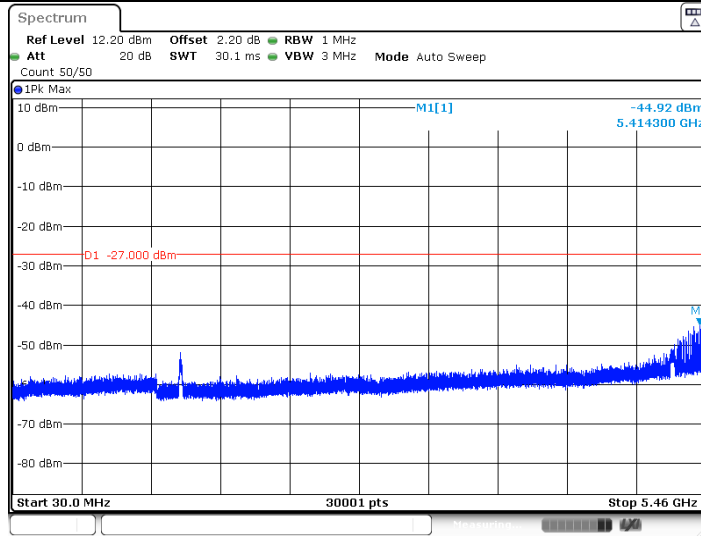


11AC40SISO_Ant1_5510_5735~40000



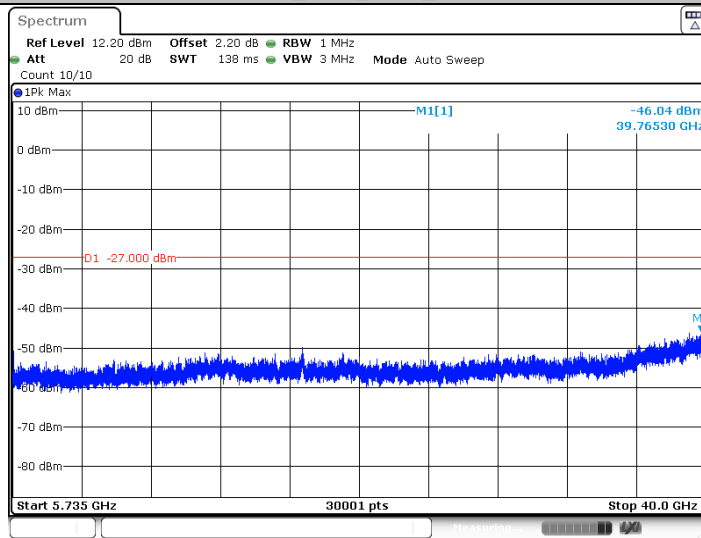
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11AC40SISO_Ant1_5550_30~5460



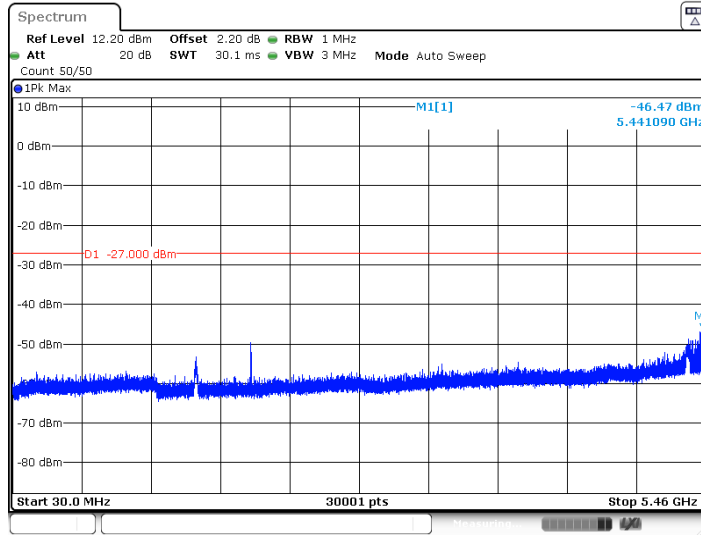
Date: 10 APR 2020 14:45:25

11AC40SISO_Ant1_5550_5735~40000



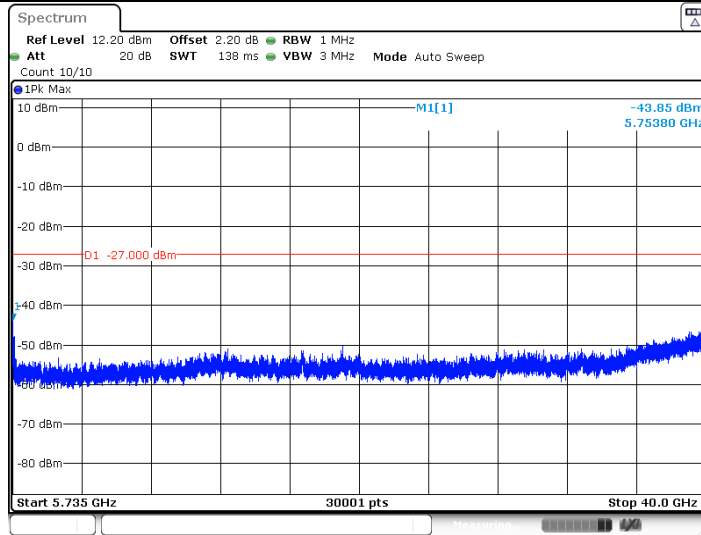
Date: 10 APR 2020 14:45:34

11AC40SISO_Ant1_5670_30~5460



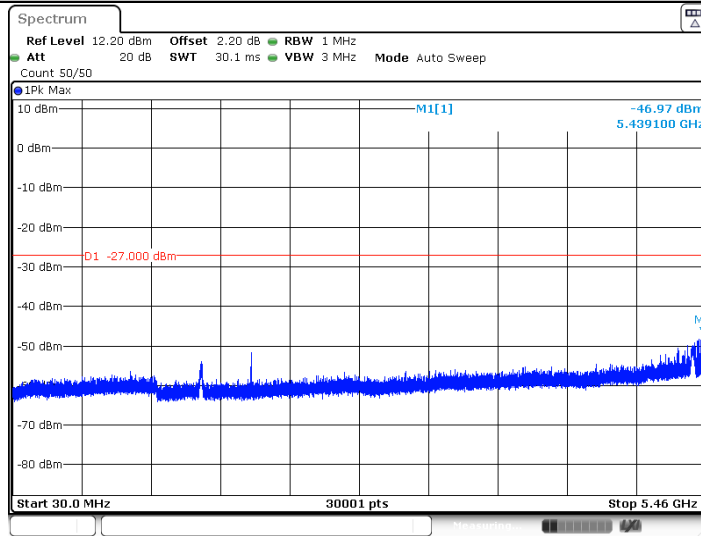
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11AC40SISO_Ant1_5670_5735~40000



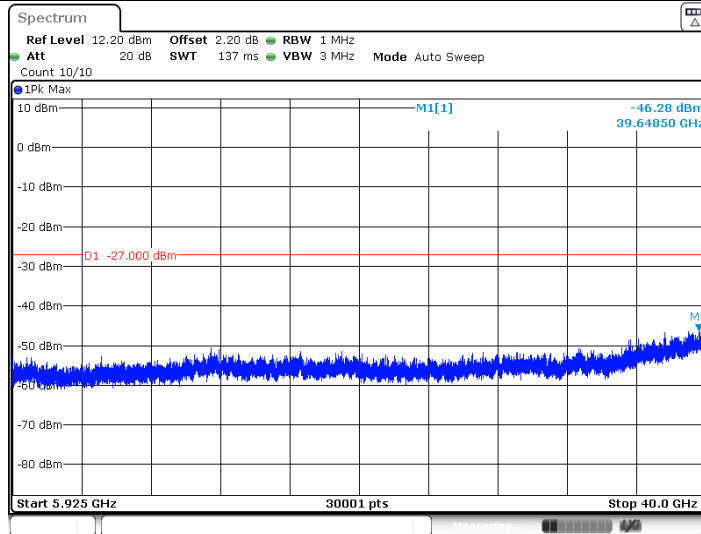
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11AC40SISO_Ant1_5710_30~5460



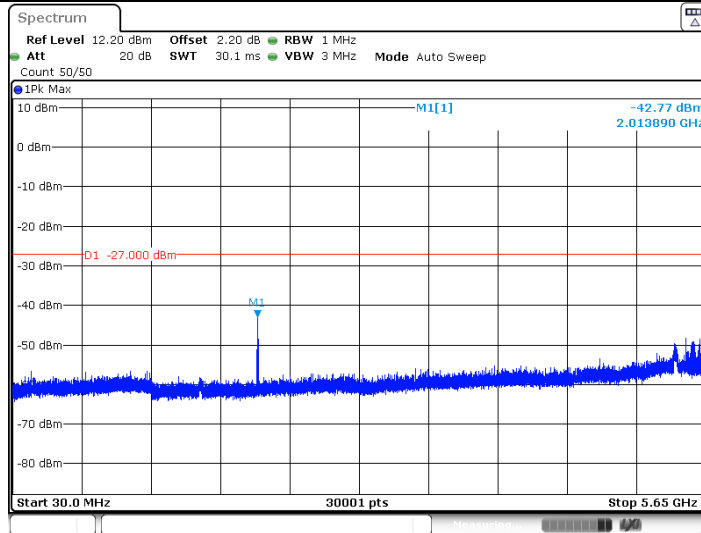
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11AC40SISO_Ant1_5710_5925~40000



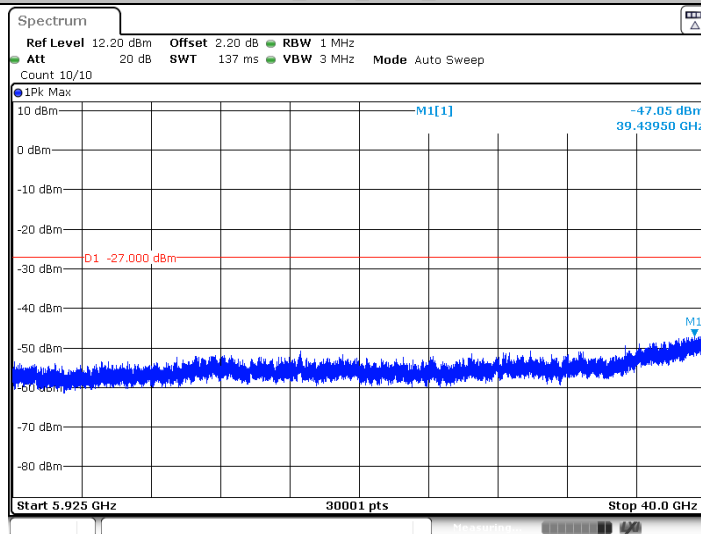
Date: 10 APR 2020 14:49:15

11AC40SISO_Ant1_5755_30~5650



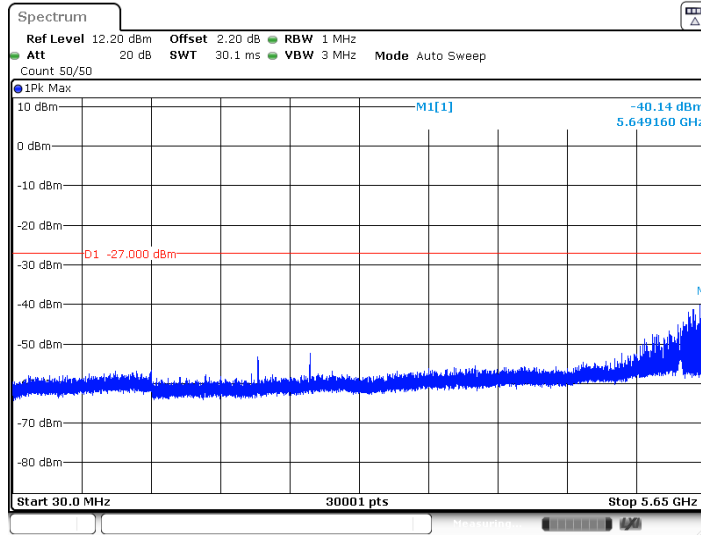
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11AC40SISO_Ant1_5755_5925~40000



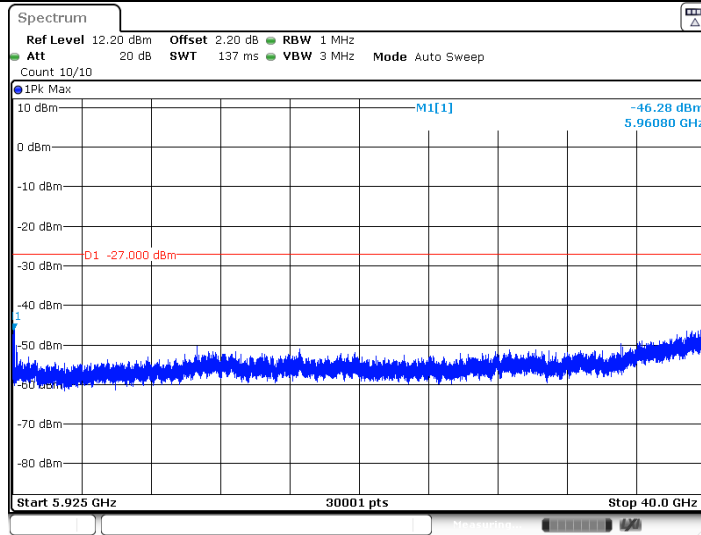
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11AC40SISO_Ant1_5795_30~5650



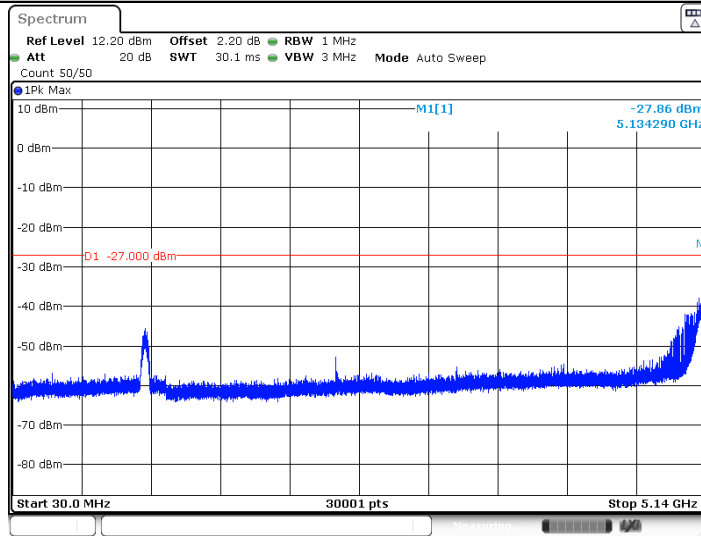
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11AC40SISO_Ant1_5795_5925~40000



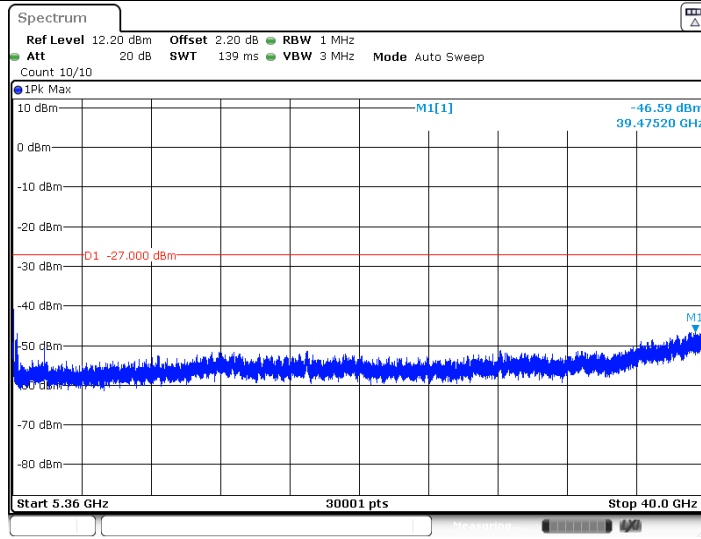
Date: 10.APR.2020 15:00:37

11AC80SISO_Ant1_5210_30~5140



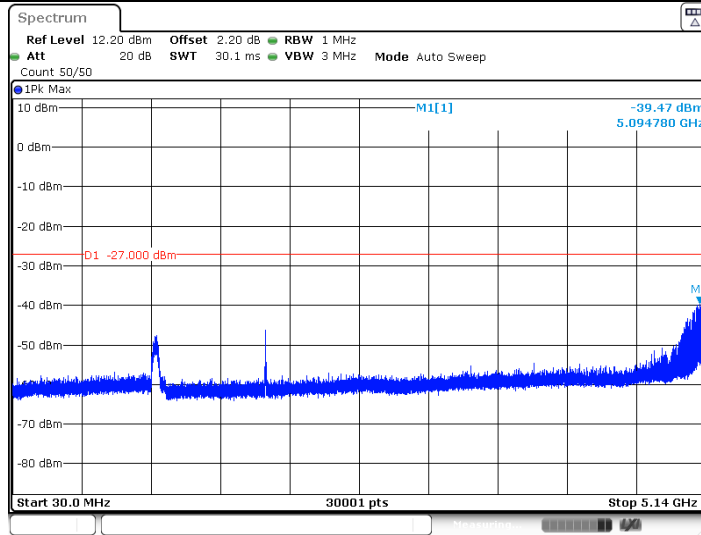
Date: 10.APR.2020 15:17:48

11AC80SISO_Ant1_5210_5360~40000



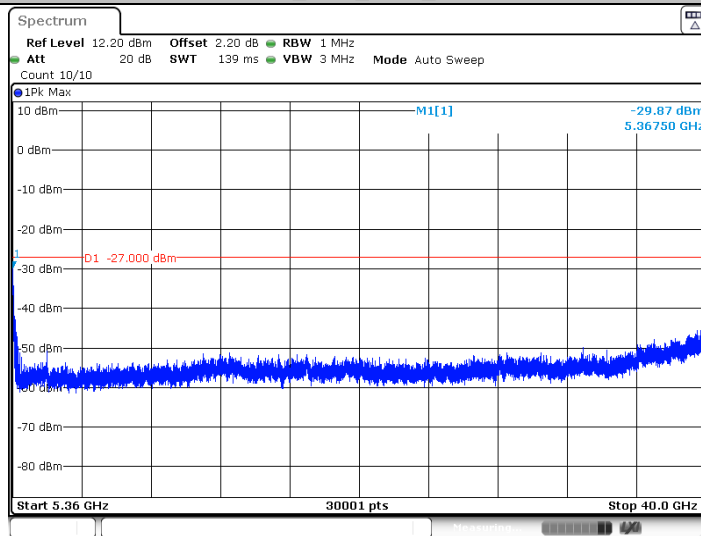
Date: 10 APR 2020 15:17:57

11AC80SISO_Ant1_5290_30~5140



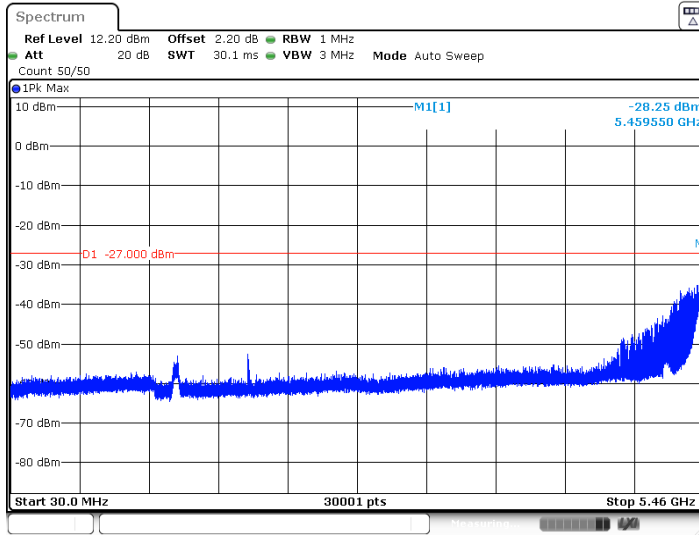
Date: 10 APR 2020 15:05:22

11AC80SISO_Ant1_5290_5360~40000



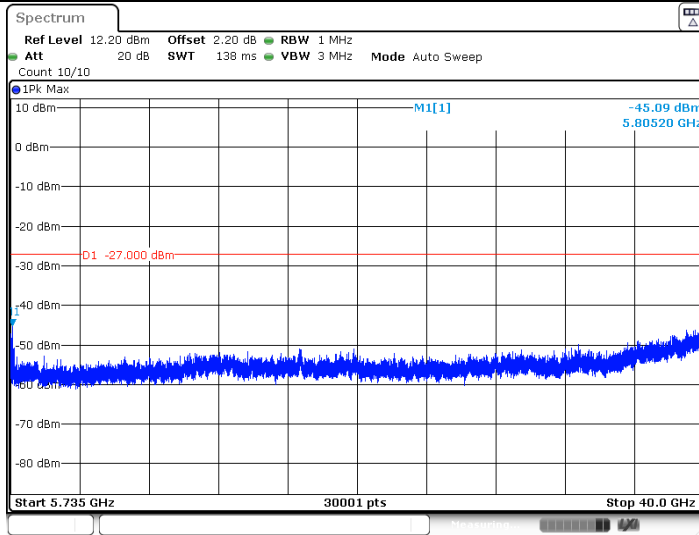
Date: 10 APR 2020 15:05:31

11AC80SISO_Ant1_5530_30~5460



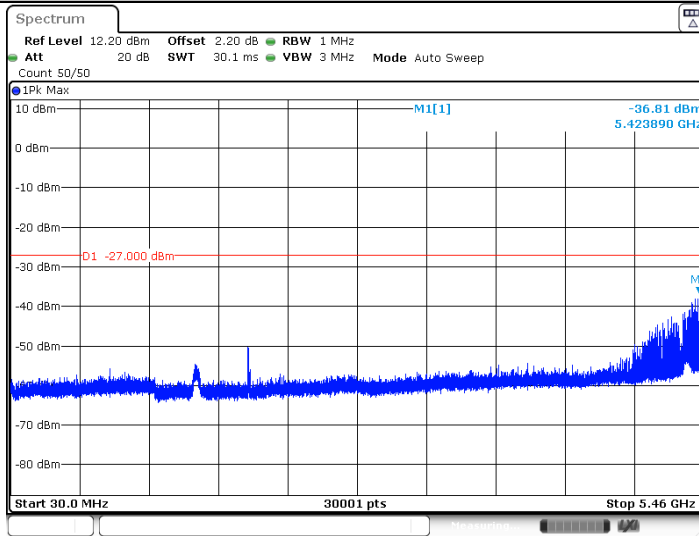
Date: 10 APR 2020 15:08:11

11AC80SISO_Ant1_5530_5735~40000



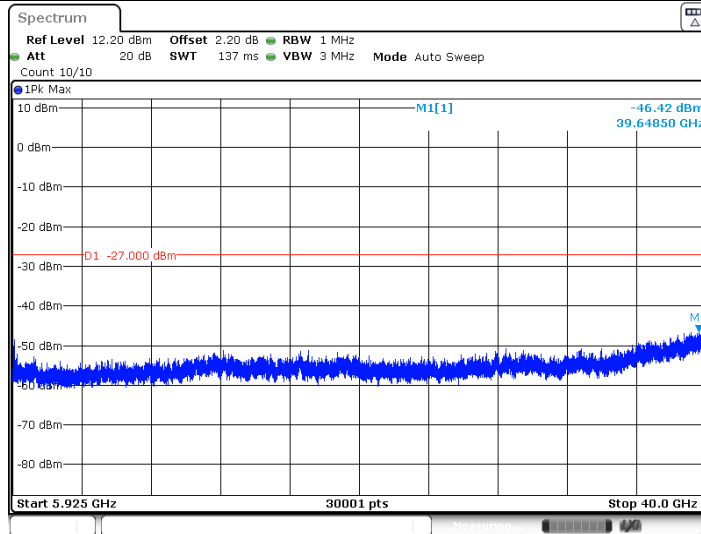
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11AC80SISO_Ant1_5690_30~5460



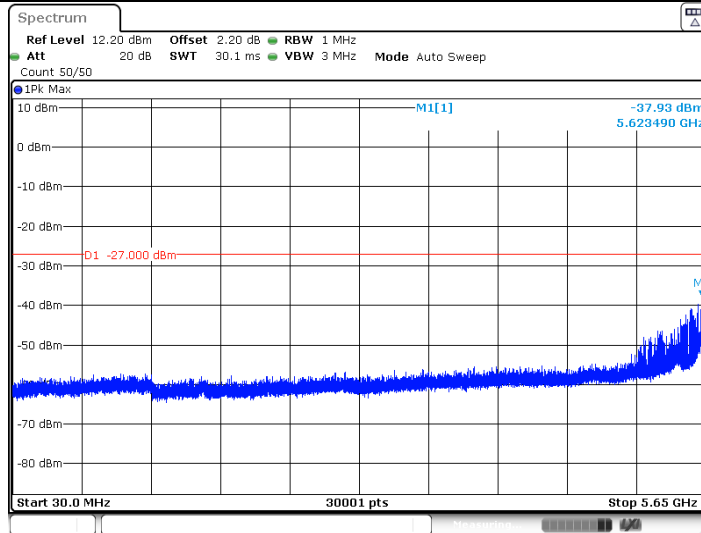
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11AC80SISO_Ant1_5690_5925~40000



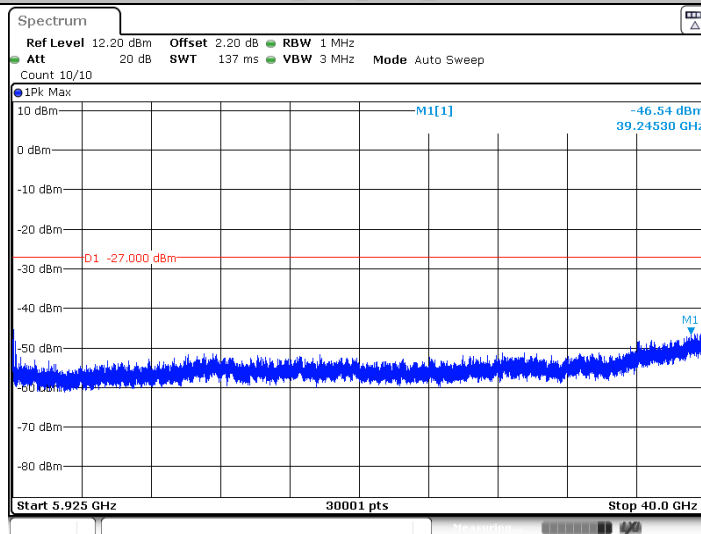
Date: 10 APR 2020 15:12:20

11AC80SISO_Ant1_5775_30~5650



Date: 10 APR 2020 15:14:38

11AC80SISO_Ant1_5775_5925~40000



Date: 10 APR 2020 15:14:47

Transmitting spurious emission test result as below (Radiated Mode):

Test Method

1. The EUT was placed on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.
3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned
5. Use the following spectrum analyzer settings According to C63.10:
 For Above 1GHz
 Span = wide enough to capture the peak level of the in-band emission and all spurious
 RBW = 1MHz, VBW \geq RBW for peak measurement and VBW = 10Hz for average measurement, Sweep = auto, Detector function = peak, Trace = max hold.
 For Below 1GHz
 Use the following spectrum analyzer settings:
 Span = wide enough to capture the peak level of the in-band emission and all spurious
 RBW = 100 KHz, VBW \geq RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average ((duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor (20log(1/duty cycle)).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average ((duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor (20log(1/duty cycle)).

bandwidth is 10Hz (duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.

Limit

According to part 15.407b (6) & RSS-247 section 6.2, the radio emission outside the operating frequency band shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. Radiated emissions which fall in the restricted bands, as defined in section 15.205 & RSS-Gen section 8.10, must comply with the radiated emission limits specified in section 15.209 & RSS-Gen section 8.9.

Frequency MHz	Field Strength uV/m	Field Strength dB μ V/m	Detector
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

The only worse case (802.11ac80 modulation) test result is listed in the report.

Transmitting spurious emission test result as below:

802.11ac80 Modulation 5210MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Correct factor	Result
MHz	MHz	dBuV/m		dBuV/m	dB		(dB/m)	
30-1000	766.22	31.34	Horizontal	46.00	14.66	QP	28	Pass
30-1000	932.11	30.21	Vertical	46.00	15.79	QP	29	Pass
1000-40000	4819.50*	47.32	Horizontal	74.00	26.68	PK	2.2	Pass
1000-40000	4186.00*	45.91	Vertical	74.00	28.09	PK	1.1	Pass

802.11ac80 Modulation 5290MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Correct factor	Result
MHz	MHz	dBuV/m		dBuV/m	dB		(dB/m)	
30-1000	--	--	Horizontal	--	--	QP		Pass
30-1000	--	--	Vertical	--	--	QP		Pass
1000-40000	4275.50*	47.01	Horizontal	74.00	26.99	PK	1.2	Pass
1000-40000	11814.50*	46.98	Vertical	74.00	27.02	PK	9.2	Pass

802.11ac80 Modulation 5530MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Correct factor	Result
MHz	MHz	dBuV/m		dBuV/m	dB		(dB/m)	
30-1000	--	--	Horizontal	--	--	QP		Pass
30-1000	--	--	Vertical	--	--	QP		Pass
1000-40000	4514.00*	46.32	Horizontal	74.00	27.68	PK	2.2	Pass
1000-40000	4066.00*	46.32	Vertical	74.00	27.68	PK	0.6	Pass

802.11ac80 Modulation 5690MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Correct factor	Result
MHz	MHz	dBuV/m		dBuV/m	dB		(dB/m)	
30-1000	--	--	Horizontal	--	--	QP		Pass
30-1000	--	--	Vertical	--	--	QP		Pass
1000-40000	16072.50*	48.87	Horizontal	74.00	25.13	PK	14.1	Pass
1000-40000	14471.00	48.67	Vertical	74.00	25.33	PK	10.9	Pass

802.11ac80 Modulation 5775MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Correct factor	Result
MHz	MHz	dBuV/m		dBuV/m	dB		(dB/m)	
30-1000	--	--	Horizontal	--	--	QP		Pass
30-1000	--	--	Vertical	--	--	QP		Pass
1000-40000	11938.00*	45.77	Horizontal	74.00	28.23	PK	9.8	Pass
1000-40000	15813.50*	47.85	Vertical	74.00	26.15	PK	13.9	Pass

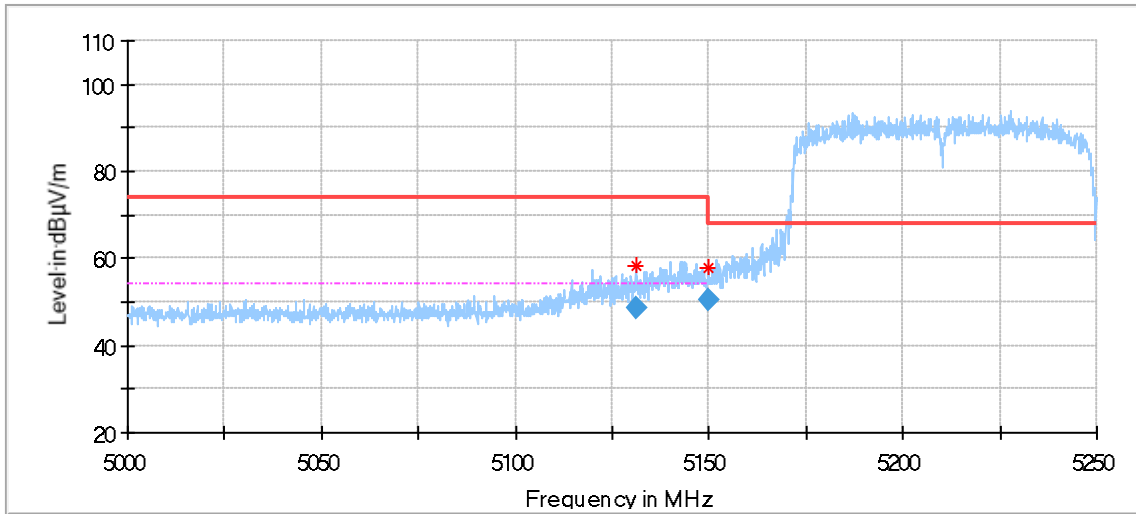
Remark:

- (1) Corrected Amplitude = Read level + Corrector factor
Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Amplifier Gain.
Below 1GHz: Corrector factor = Antenna Factor + Cable Loss.
(The Reading Level is recorded by software which is not shown in the sheet)
- (2) "*" means the emission(s) appear within the restrict bands shall follow the requirement of section 15.205.

- (3) We test all modes and only the worst case recorded in the report.
- (4) Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are the noise floor or attenuated more than 10dB below the permissible limits or the field strength is too small to be measured.

Restricted bands of operation. test result as below:

802.11ac80 Modulation 5210MHz



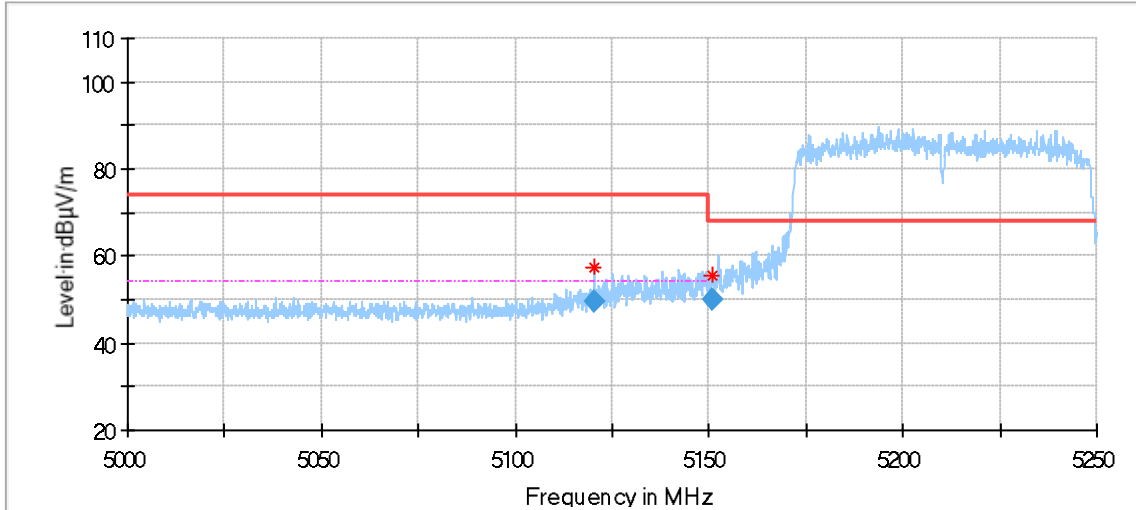
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5131.000000	58.40	74.00	15.60	150.0	H	69.0	1.4
5150.000000	57.97	68.20	10.23	150.0	H	101.0	1.8
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5131.000000	48.62	54.00	5.38	150.0	H	300.0	1.8
5150.000000	50.31	54.00	3.69	150.0	H	101.0	1.8

Remark:

Level=Reading Level + Correction Factor

Correction Factor=Antenna Factor + Cable Loss – Pre-amplifier

(The Reading Level is recorded by software which is not shown in the sheet)



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5120.412500	57.21	74.00	16.79	150.0	V	187.0	1.4
5150.775000	55.74	68.20	12.46	150.0	V	207.0	1.8
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5120.412500	49.45	54.00	4.55	150.0	V	187.0	1.4
5150.775000	49.89	54.00	4.11	150.0	V	207.0	1.8

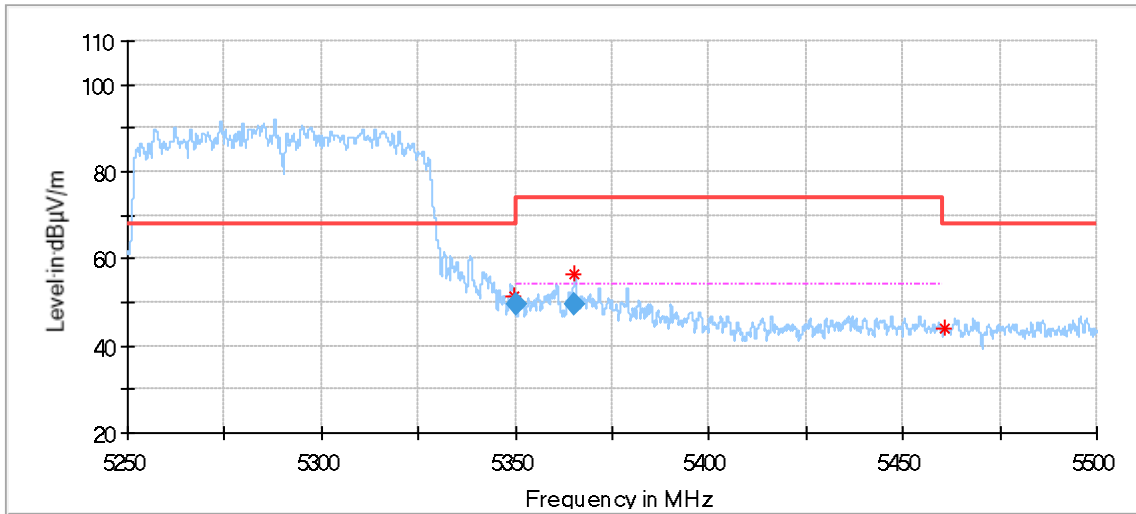
Remark:

Level=Reading Level + Correction Factor

Correction Factor=Antenna Factor + Cable Loss – Pre-amplifier

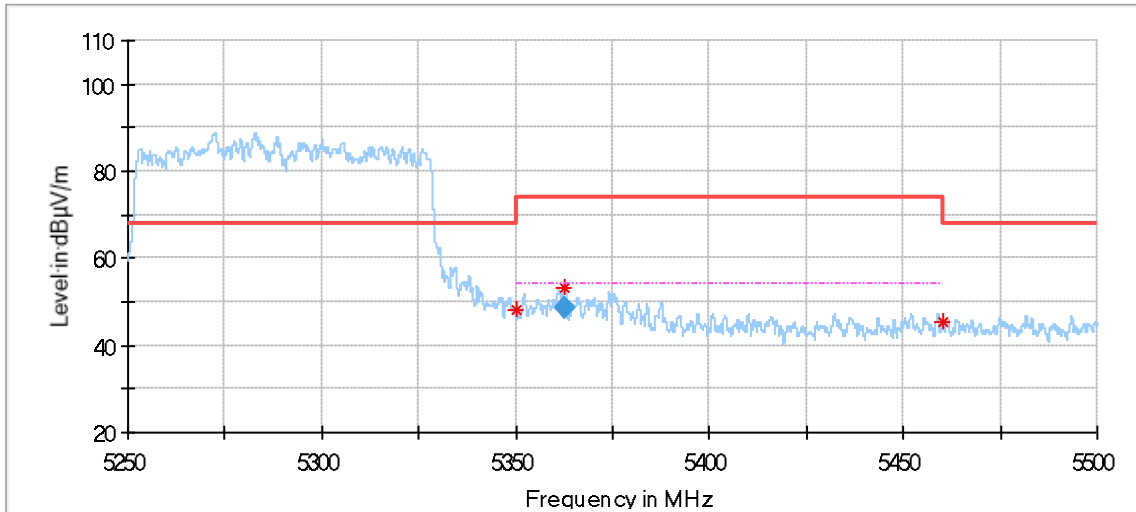
(The Reading Level is recorded by software which is not shown in the sheet)

802.11ac80 Modulation 5290MHz



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5350.000000	51.41	68.20	16.79	150.0	H	89.0	2.0
5365.291667	56.30	74.00	17.70	150.0	H	82.0	2.3
5460.000000	44.07	68.20	24.13	150.0	H	31.0	2.8
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5350.000000	49.38	54.00	4.62	150.0	H	89.0	2.0
5365.291667	49.67	54.00	4.33	150.0	H	82.0	2.3

Remark:
 Level=Reading Level + Correction Factor
 Correction Factor=Antenna Factor + Cable Loss – Pre-amplifier
 (The Reading Level is recorded by software which is not shown in the sheet)



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5350.000000	48.16	68.20	20.04	150.0	V	112.0	2.1
5362.791667	53.45	74.00	20.55	150.0	V	98.0	2.3
5460.000000	45.31	68.20	22.89	150.0	V	315.0	2.9
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5362.791667	48.77	54.00	5.23	150.0	V	98.0	2.3

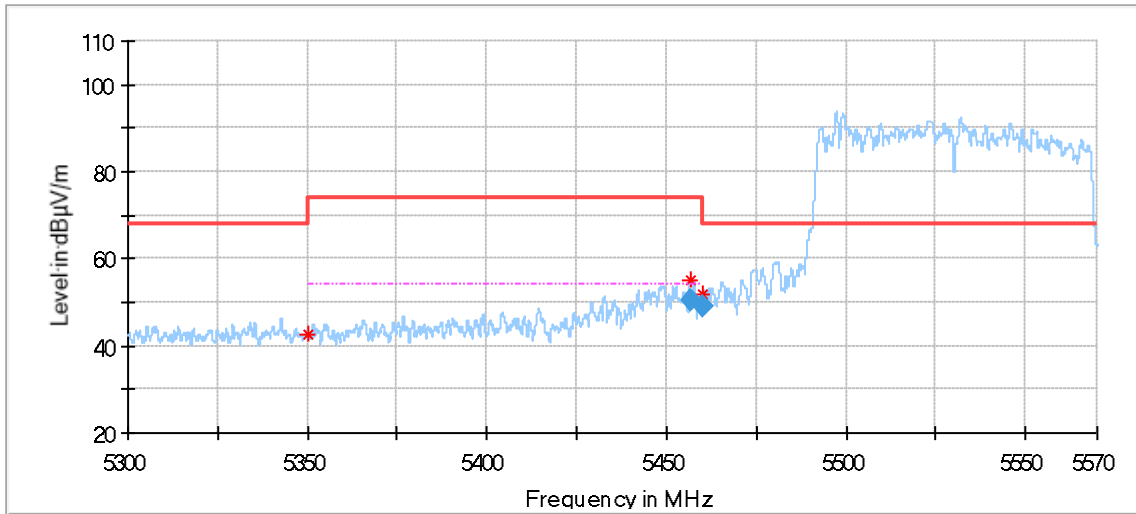
Remark:

Level=Reading Level + Correction Factor

Correction Factor=Antenna Factor + Cable Loss – Pre-amplifier

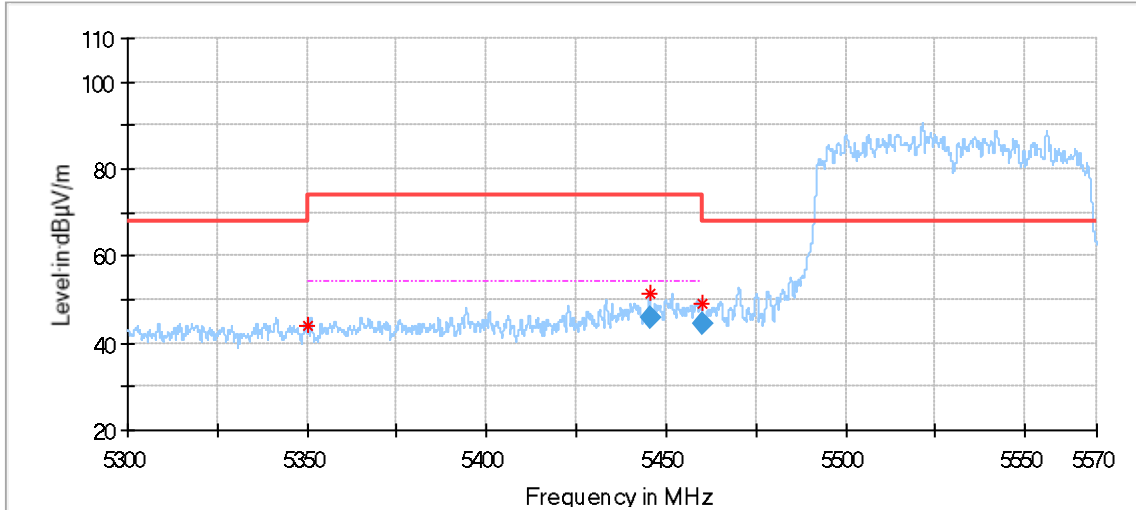
(The Reading Level is recorded by software which is not shown in the sheet)

802.11ac80 Modulation 5530MHz



Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5456.757500	50.37	54.00	3.63	150.0	H	73.0	2.9
5460.000000	49.29	54.00	4.71	150.0	H	98.0	2.9
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5456.757500	50.37	54.00	3.63	150.0	H	73.0	2.9
5460.000000	49.29	54.00	4.71	150.0	H	98.0	2.9

Remark:
 Level=Reading Level + Correction Factor
 Correction Factor=Antenna Factor + Cable Loss – Pre-amplifier
 (The Reading Level is recorded by software which is not shown in the sheet)



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5350.000000	43.99	68.20	24.21	150.0	V	0.0	2.0
5445.485000	51.33	74.00	22.67	150.0	V	6.0	3.0
5460.000000	49.29	68.20	18.91	150.0	V	96.0	2.8
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5445.485000	45.78	54.00	8.22	150.0	V	6.0	3.0
5460.000000	44.59	54.00	9.41	150.0	V	96.0	2.8

Remark:

Level=Reading Level + Correction Factor

Correction Factor=Antenna Factor + Cable Loss – Pre-amplifier

(The Reading Level is recorded by software which is not shown in the sheet)

9.6 Band Edge

Test Method

According to KBD789033 D02

The EUT was placed on 0.8m height table, the RF output of EUT was connected to the test receiver by RF cable. The path loss was compensated to the results for each measurement.

Limits:

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

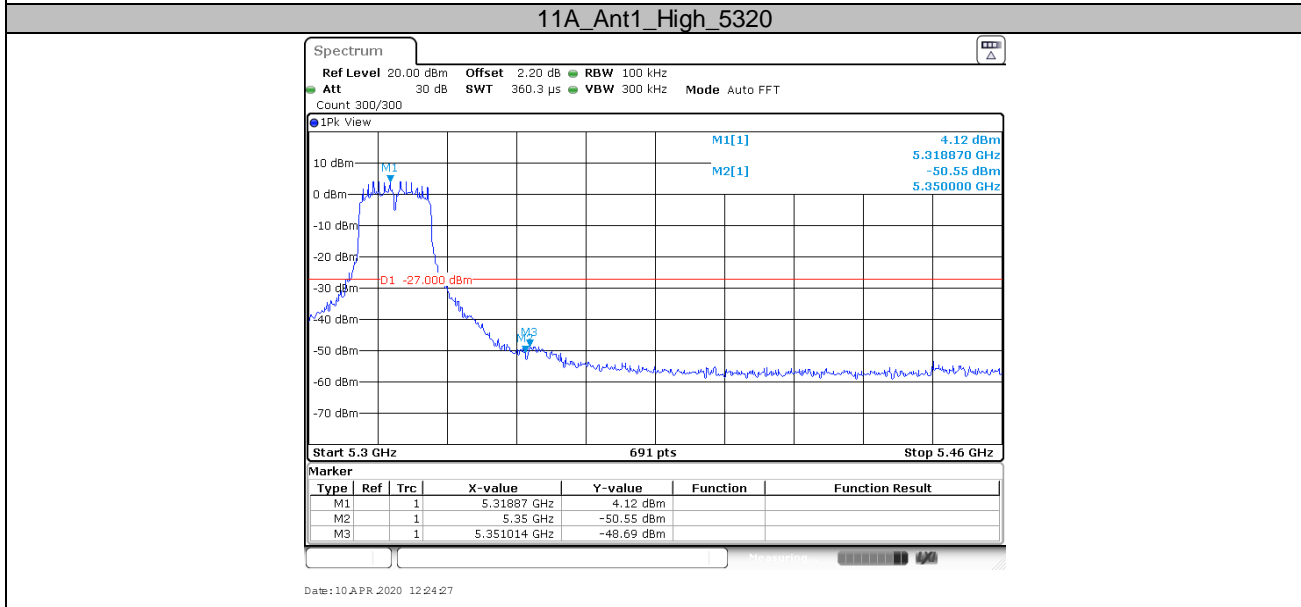
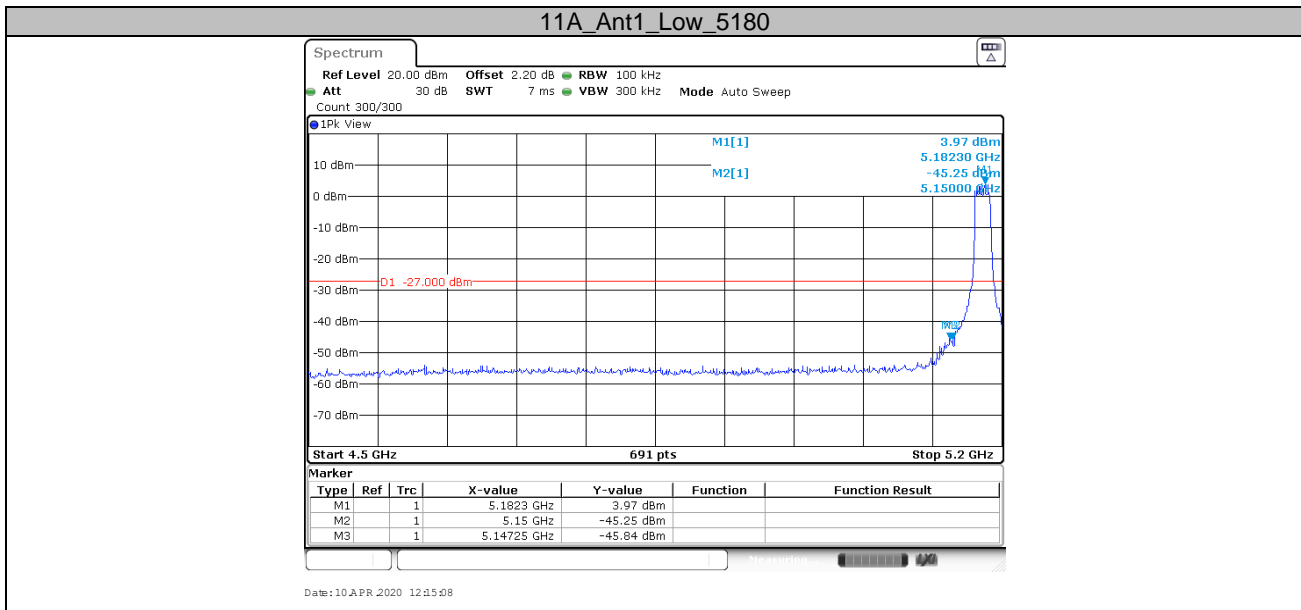
For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

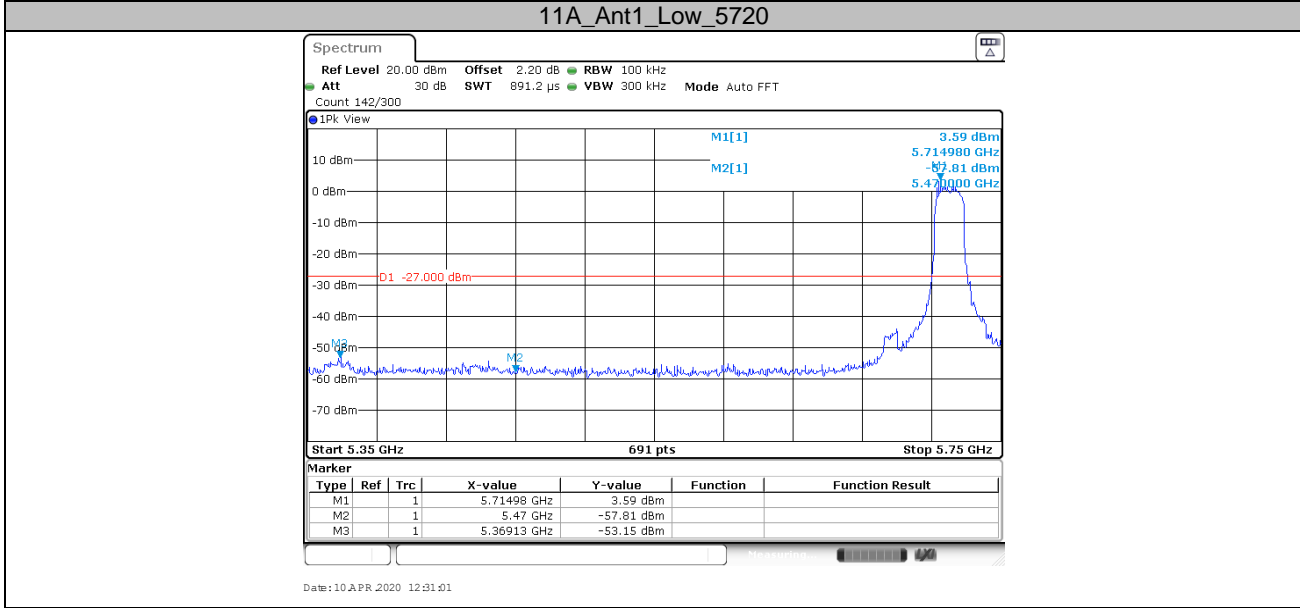
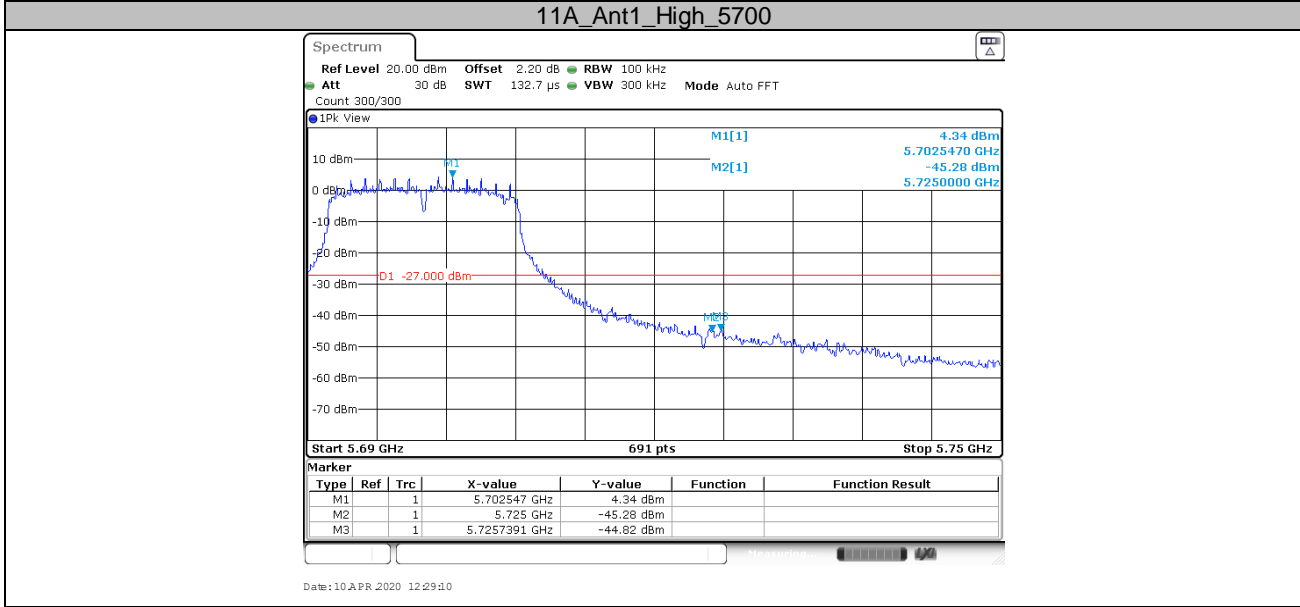
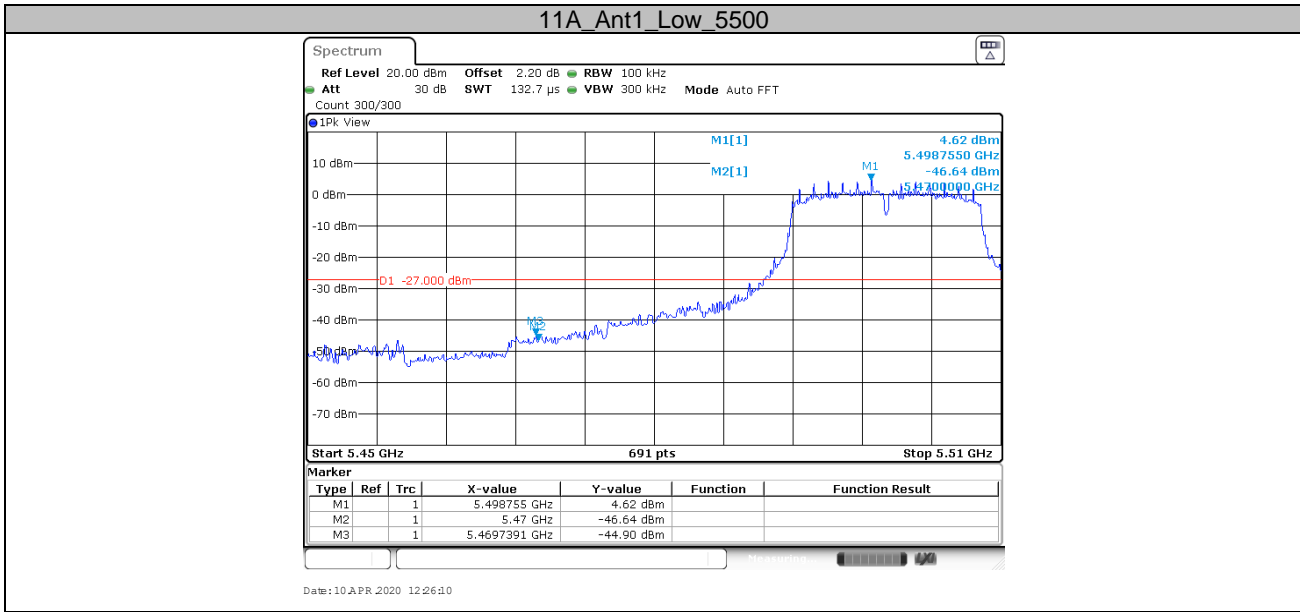
Test Result:

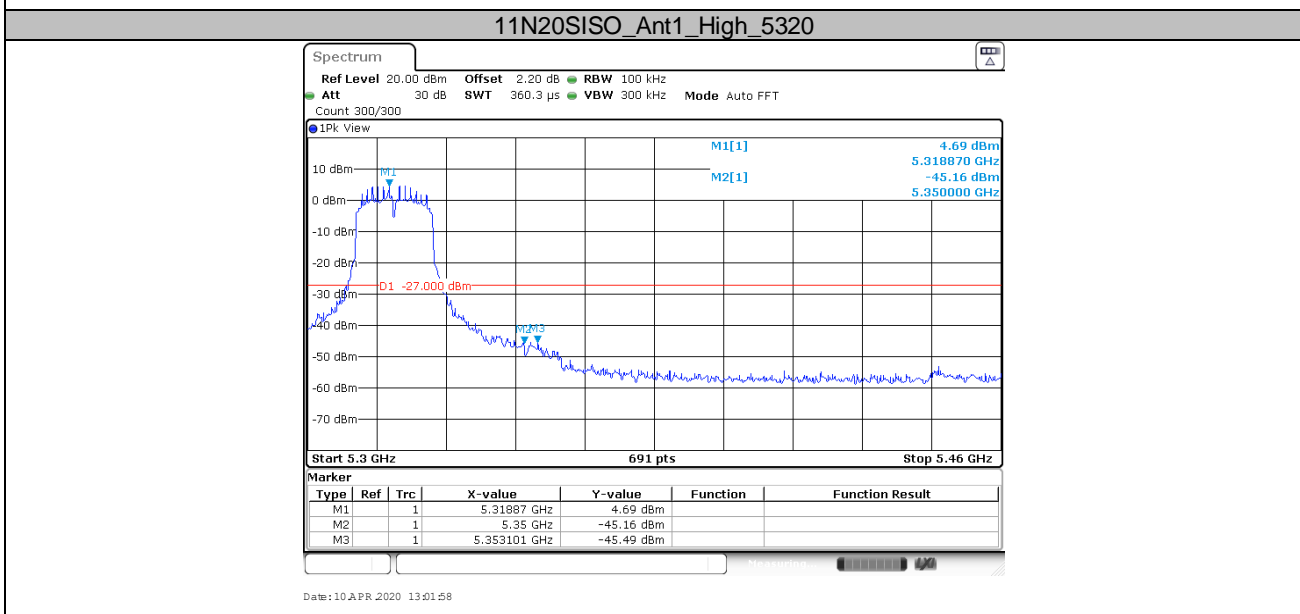
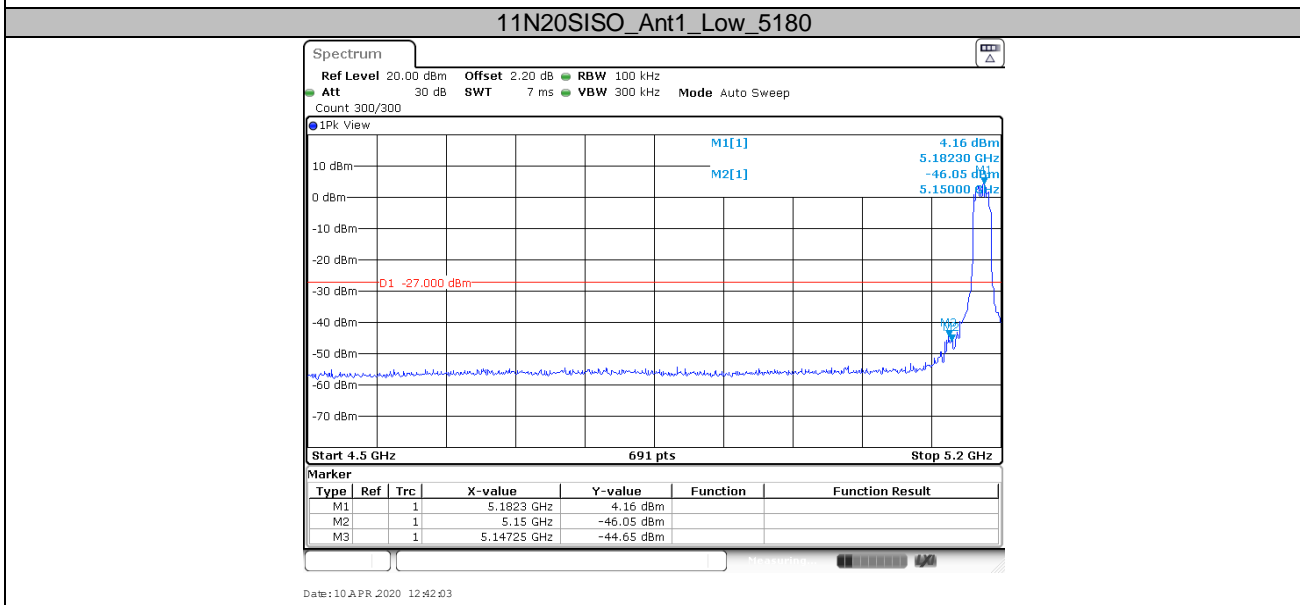
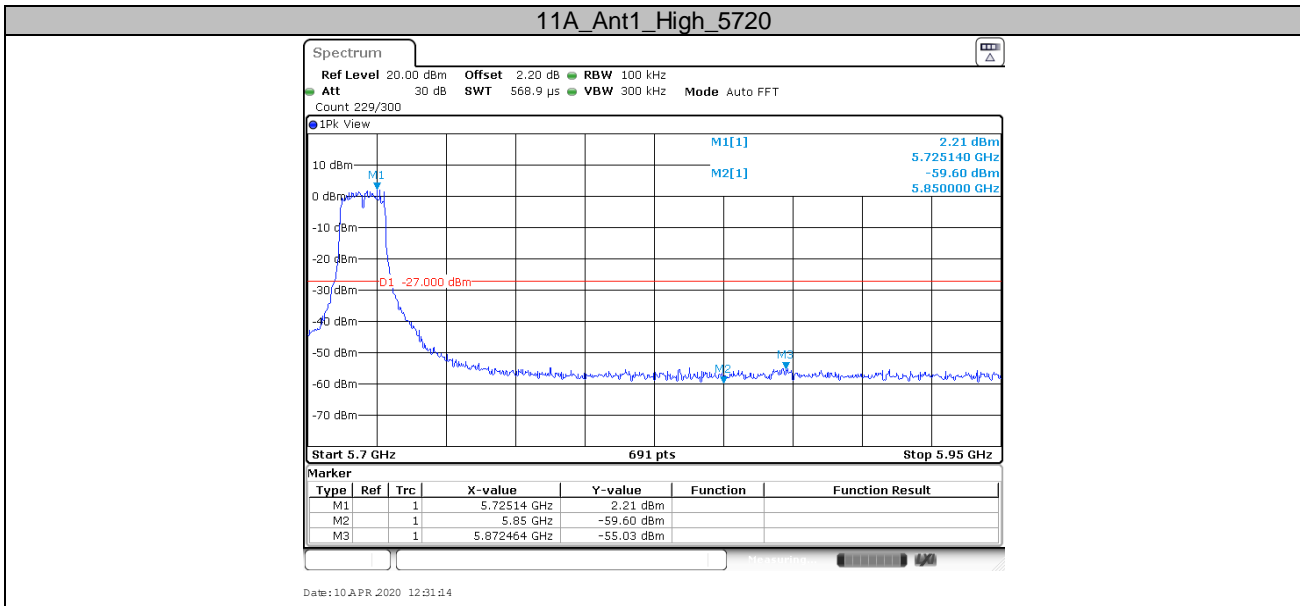
TestMode	Antenna	ChName	Channel(MHz)	Result(dBm/MHz)	Limit(dBm/MHz)	Verdict
11A	Ant1	Low	5180	-45.84	<=-27	PASS
		High	5320	-48.69	<=-27	PASS
		Low	5500	-44.9	<=-27	PASS
		High	5700	-44.82	<=-27	PASS
		Low	5720	-53.15	<=-27	PASS
		High	5720	-55.03	<=-27	PASS
11N20SISO	Ant1	Low	5180	-44.65	<=-27	PASS
		High	5320	-45.49	<=-27	PASS
		Low	5500	-46.44	<=-27	PASS
		High	5700	-43.32	<=-27	PASS
		Low	5720	-53.63	<=-27	PASS
		High	5720	-53.8	<=-27	PASS
11N40SISO	Ant1	Low	5190	-39.84	<=-27	PASS
		High	5310	-38.24	<=-27	PASS
		Low	5510	-37.08	<=-27	PASS
		High	5670	-50.47	<=-27	PASS
		Low	5710	-53.21	<=-27	PASS
		High	5710	-54.07	<=-27	PASS
11AC20SISO	Ant1	Low	5180	-43.8	<=-27	PASS
		High	5320	-49.89	<=-27	PASS
		Low	5500	-46.17	<=-27	PASS
		High	5700	-43.45	<=-27	PASS
		Low	5720	-53.65	<=-27	PASS
		High	5720	-53.11	<=-27	PASS
11AC40SISO	Ant1	Low	5190	-39.45	<=-27	PASS
		High	5310	-40.51	<=-27	PASS
		Low	5510	-36.55	<=-27	PASS
		High	5670	-50.56	<=-27	PASS
		Low	5710	-52.72	<=-27	PASS
		High	5710	-54.03	<=-27	PASS
11AC80SISO	Ant1	Low	5210	-36.34	<=-27	PASS
		High	5290	-35.89	<=-27	PASS
		Low	5530	-36.27	<=-27	PASS
		Low	5690	-52.29	<=-27	PASS
		High	5690	-53.83	<=-27	PASS



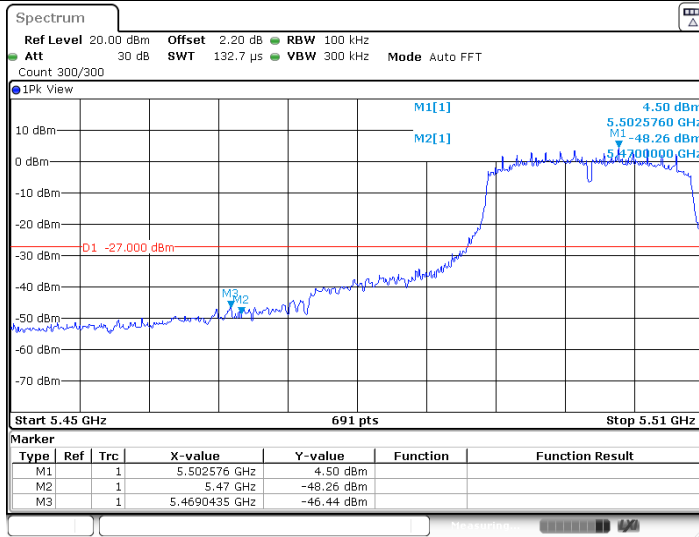
TestMode	Antenna	ChName	Channel(MHz)	FreqRange (MHz)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
11A	Ant1	Low	5745	5650~5700	-52.89	9.51	PASS
		Low	5745	5700~5720	-48.28	12.89	PASS
		Low	5745	5720~5725	-49	27.00	PASS
		Low	5745	5760~5650	-55.11	-27	PASS
		High	5825	5850~5855	-52.4	15.80	PASS
		High	5825	5855~5875	-49.99	11.58	PASS
		High	5825	5875~5925	-54.8	-14.60	PASS
		High	5825	5925~5935	-56.12	-27	PASS
11N20SIS O	Ant1	Low	5745	5650~5700	-53.67	7.41	PASS
		Low	5745	5700~5720	-50.37	12.19	PASS
		Low	5745	5720~5725	-49.9	24.34	PASS
		Low	5745	5760~5650	-56.09	-27	PASS
		High	5825	5850~5855	-48.61	18.92	PASS
		High	5825	5855~5875	-50.81	10.65	PASS
		High	5825	5875~5925	-53.6	-26.61	PASS
11N40SIS O	Ant1	Low	5755	5650~5700	-51.99	9.98	PASS
		Low	5755	5700~5720	-46.62	15.47	PASS
		Low	5755	5720~5725	-47.67	24.37	PASS
		Low	5755	5780~5650	-55.69	-27	PASS
		High	5795	5850~5855	-54.11	16.39	PASS
		High	5795	5855~5875	-53.09	14.39	PASS
		High	5795	5875~5925	-54.71	-21.35	PASS
11AC20SIS O	Ant1	Low	5745	5650~5700	-53.63	9.75	PASS
		Low	5745	5700~5720	-47.01	14.95	PASS
		Low	5745	5720~5725	-50.69	22.06	PASS
		Low	5745	5760~5650	-55.42	-27	PASS
		High	5825	5850~5855	-47.22	15.80	PASS
		High	5825	5855~5875	-52.88	12.13	PASS
		High	5825	5875~5925	-54.48	-26.76	PASS
		High	5825	5925~5935	-55.64	-27	PASS
11AC40SIS O	Ant1	Low	5755	5650~5700	-51.26	9.84	PASS
		Low	5755	5700~5720	-44.28	15.58	PASS
		Low	5755	5720~5725	-43.24	15.90	PASS
		Low	5755	5780~5650	-56.03	-27	PASS
		High	5795	5850~5855	-53.06	15.85	PASS
		High	5795	5855~5875	-53.52	14.59	PASS
		High	5795	5875~5925	-53.17	-24.36	PASS
		High	5795	5925~5935	-56.07	-27	PASS
11AC80SIS O	Ant1	Low	5775	5650~5700	-46.93	3.38	PASS
		Low	5775	5700~5720	-47.47	11.14	PASS
		Low	5775	5720~5725	-46.76	24.88	PASS
		Low	5775	5800~5650	-50.43	-27	PASS
		High	5775	5850~5855	-49.3	21.73	PASS
		High	5775	5855~5875	-48.23	13.48	PASS
		High	5775	5875~5925	-51.72	-18.11	PASS
		High	5775	5925~5935	-54.63	-27	PASS





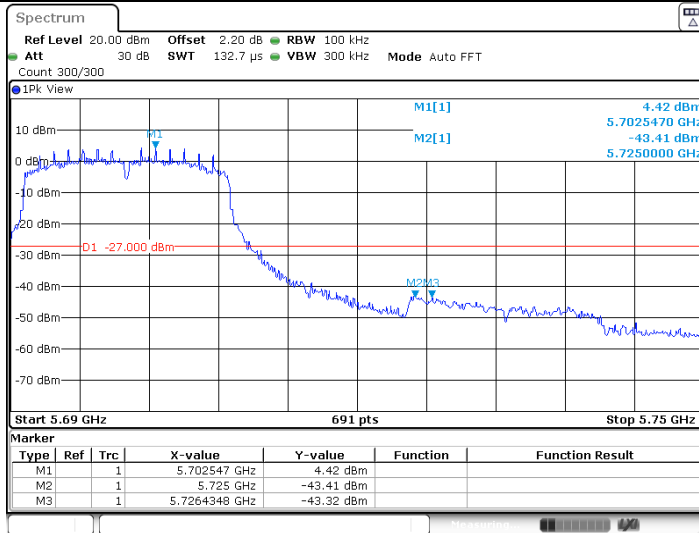


11N20SISO_Ant1_Low_5500



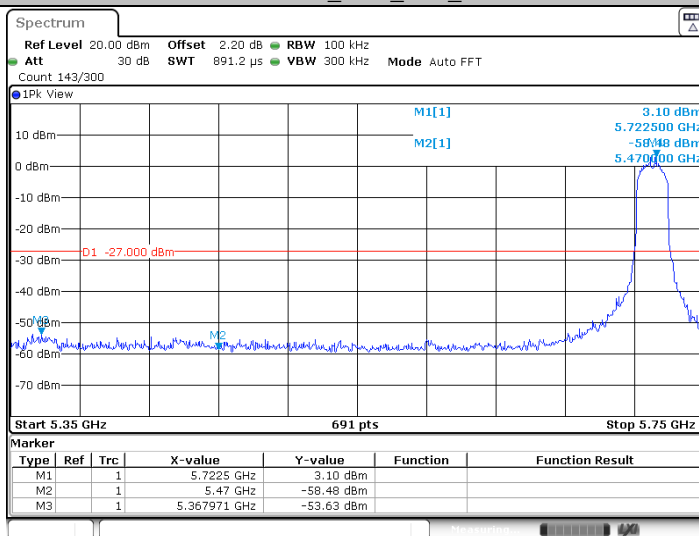
Date: 10 APR 2020 13:03:37

11N20SISO_Ant1_High_5700



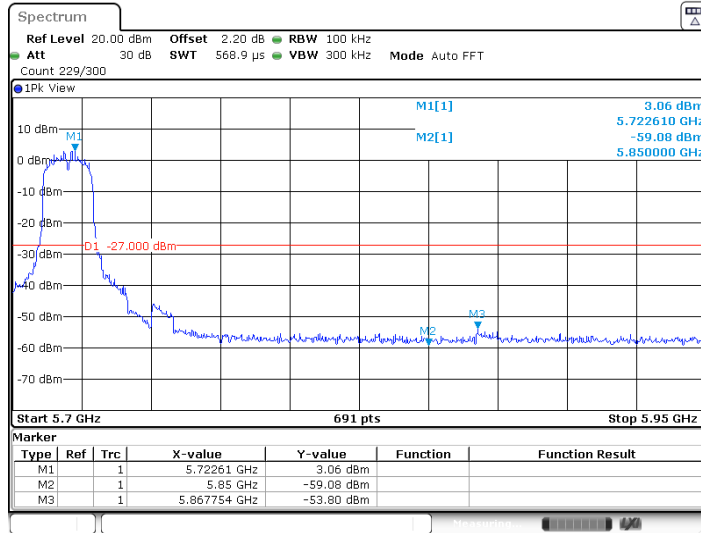
Date: 10 APR 2020 13:17:20

11N20SISO_Ant1_Low_5720

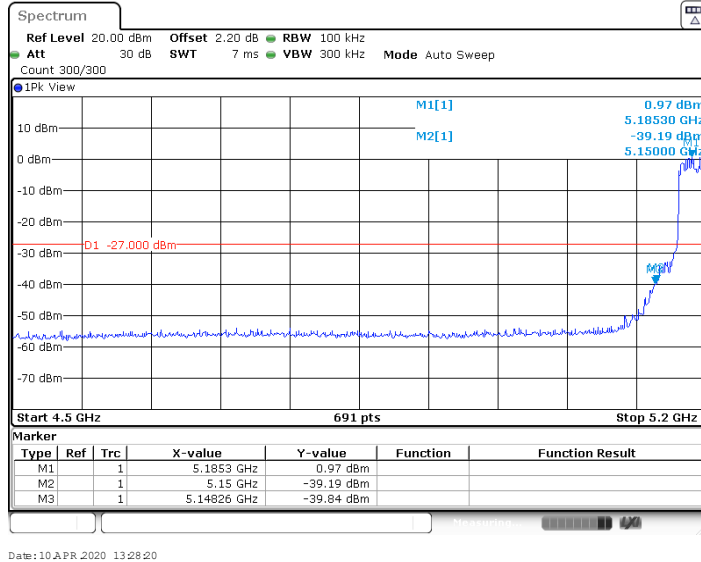


Date: 10 APR 2020 13:20:19

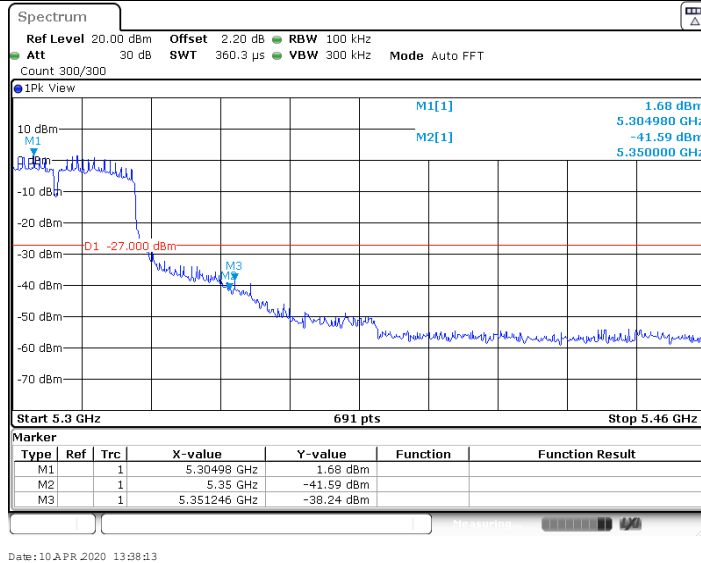
11N20SISO_Ant1_High_5720



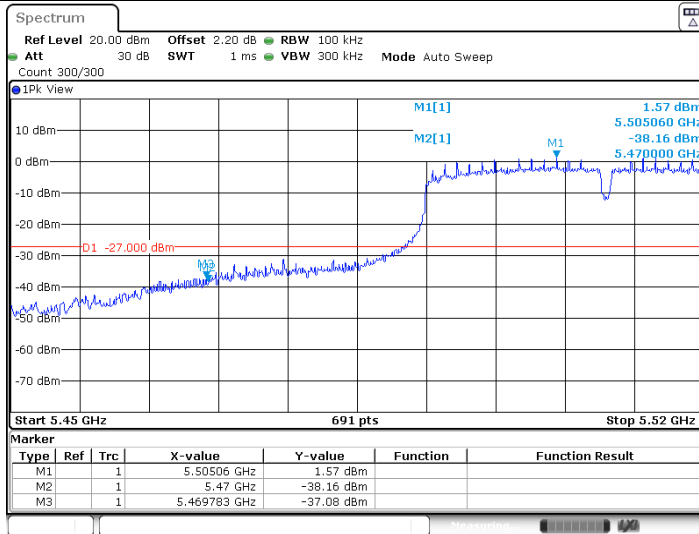
11N40SISO_Ant1_Low_5190



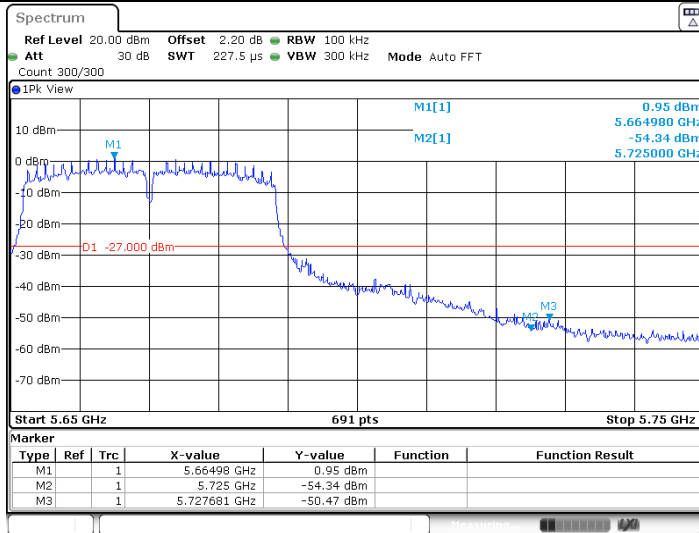
11N40SISO_Ant1_High_5310



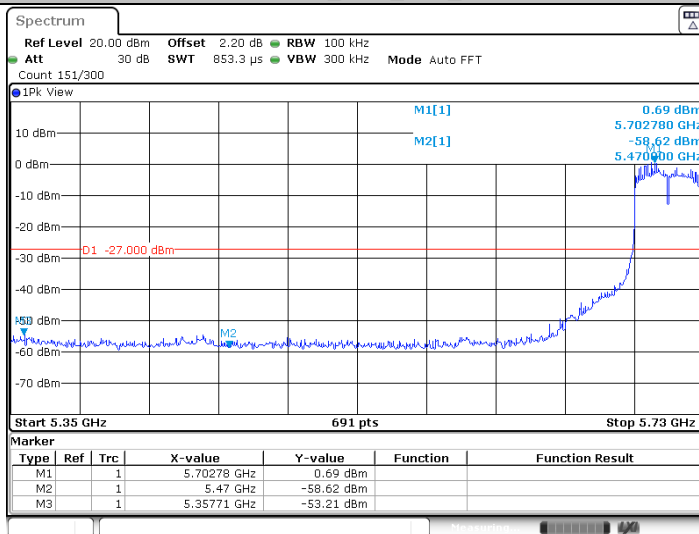
11N40SISO_Ant1_Low_5510



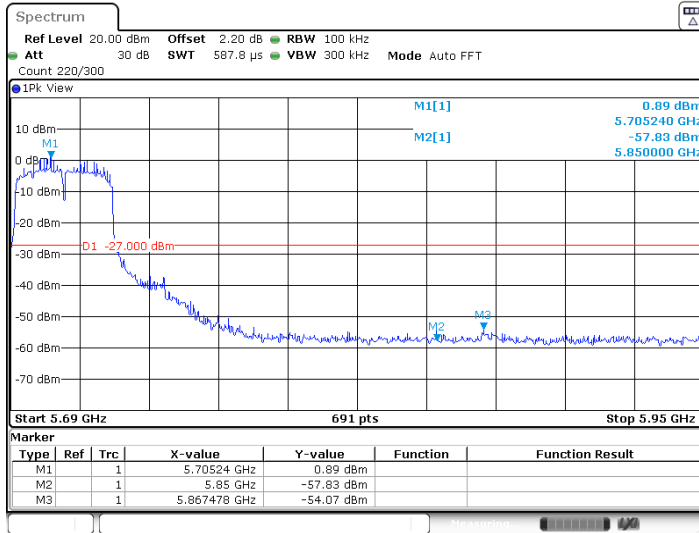
11N40SISO_Ant1_High_5670



11N40SISO_Ant1_Low_5710

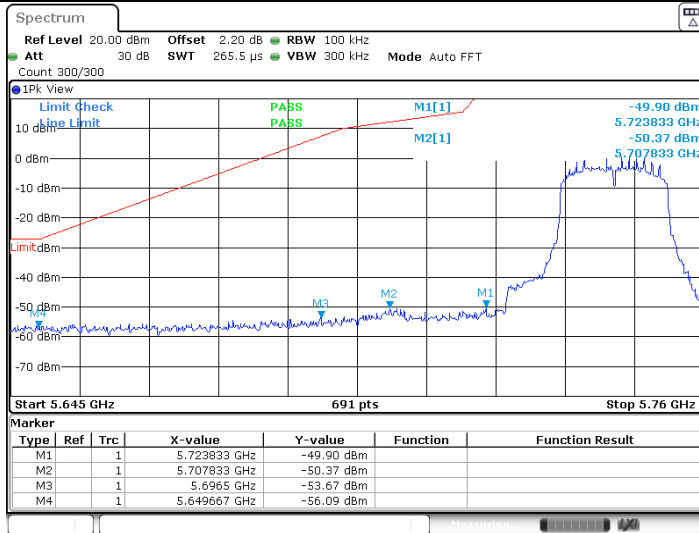


11N40SISO_Ant1_High_5710



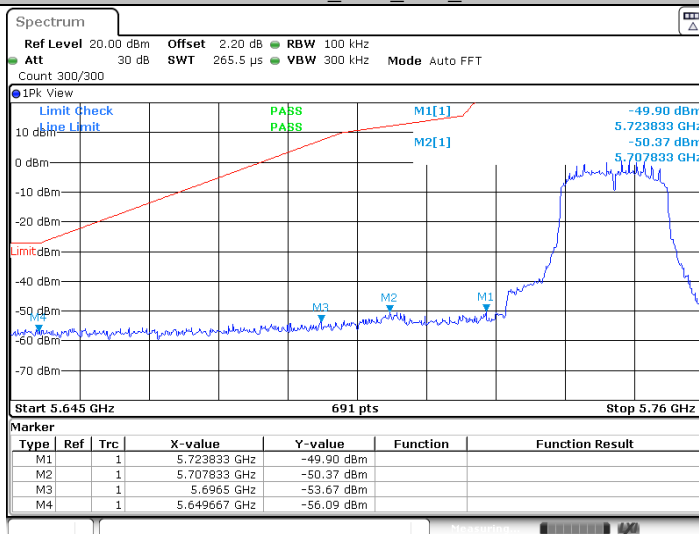
Date: 10 APR 2020 14:01:40

11N20SISO_Ant1_Low_5745



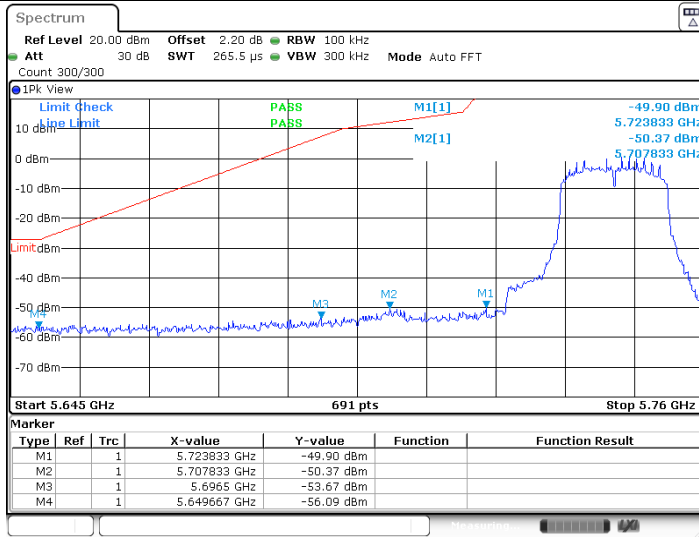
Date: 10 APR 2020 13:22:34

11N20SISO_Ant1_Low_5745



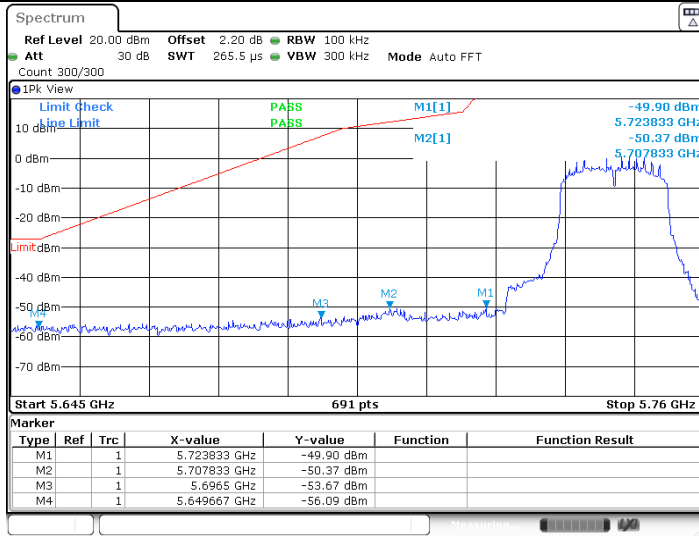
Date: 10 APR 2020 13:22:34

11N20SISO_Ant1_Low_5745



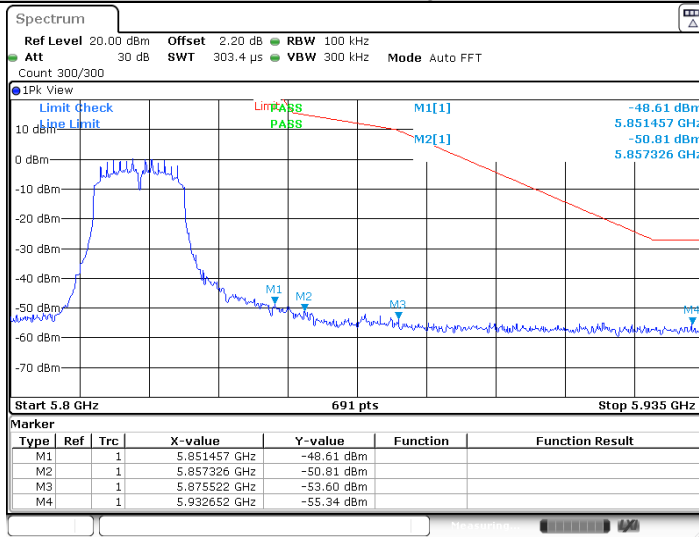
Date: 10 APR 2020 13:22:34

11N20SISO_Ant1_Low_5745



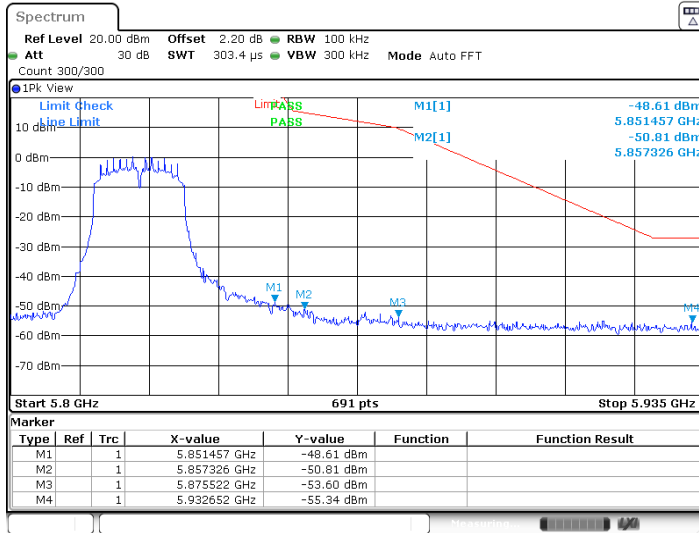
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11N20SISO_Ant1_High_5825



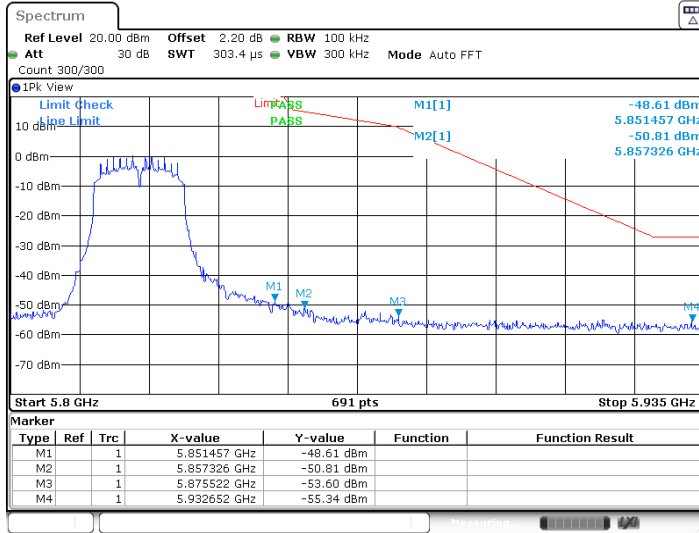
Date: 10 APR 2020 13:26:14

11N20SISO_Ant1_High_5825



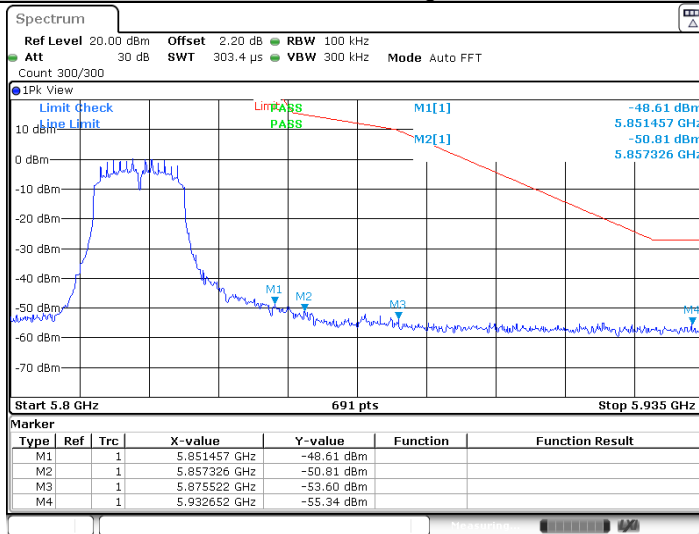
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11N20SISO_Ant1_High_5825



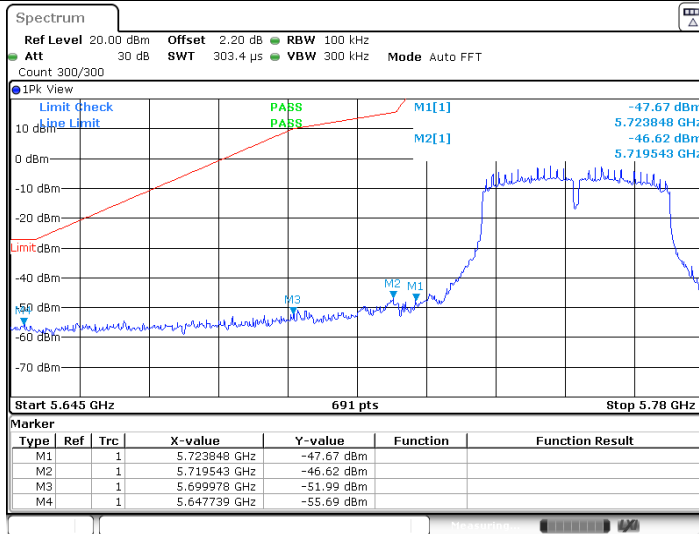
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11N20SISO_Ant1_High_5825



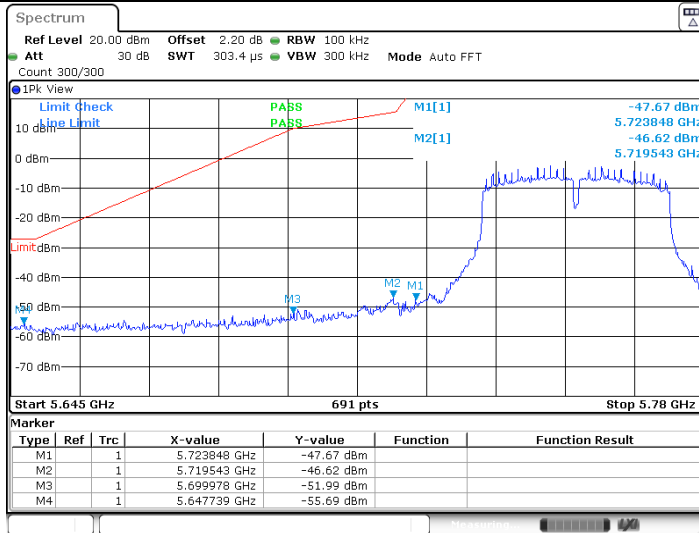
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11N40SISO_Ant1_Low_5755



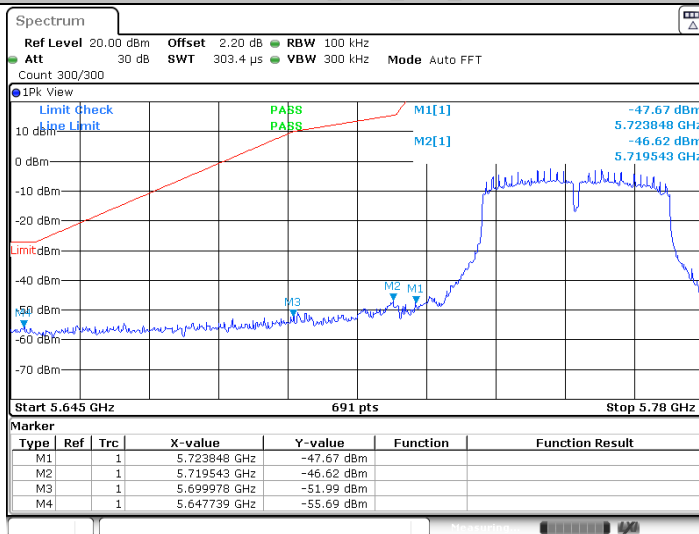
Date: 10 APR 2020 14:03:37

11N40SISO_Ant1_Low_5755



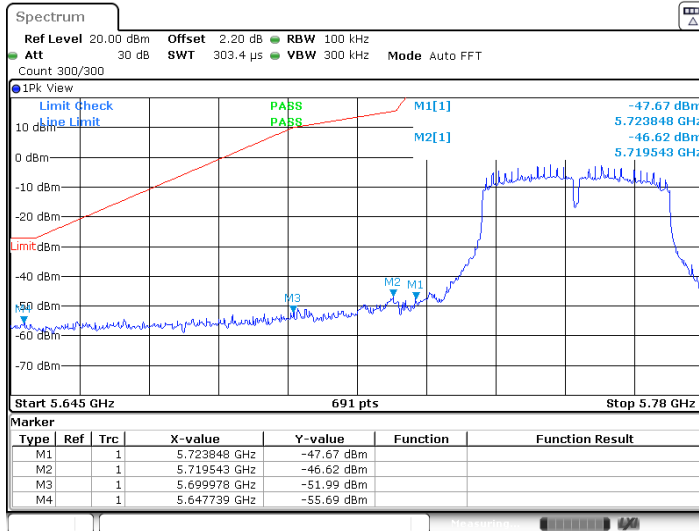
Date: 10 APR 2020 14:03:37

11N40SISO_Ant1_Low_5755



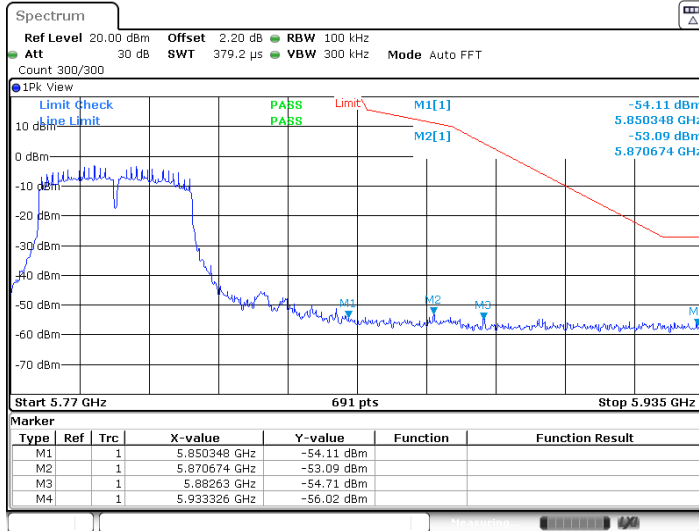
Date: 10 APR 2020 14:03:37

11N40SISO_Ant1_Low_5755



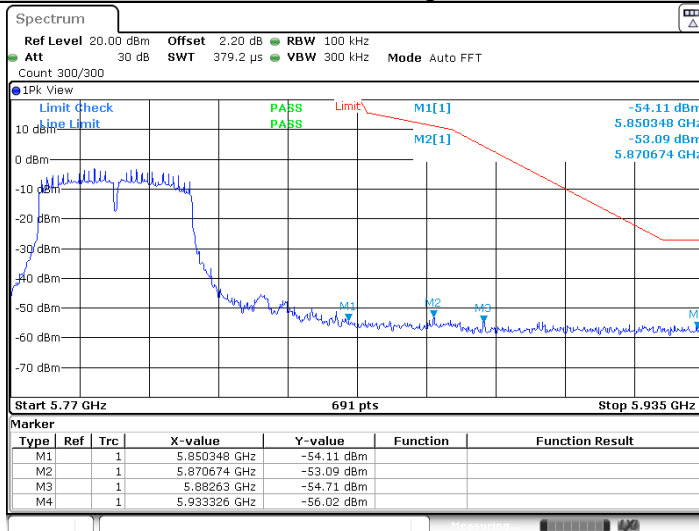
Date: 10 APR 2020 14:03:37

11N40SISO_Ant1_High_5795



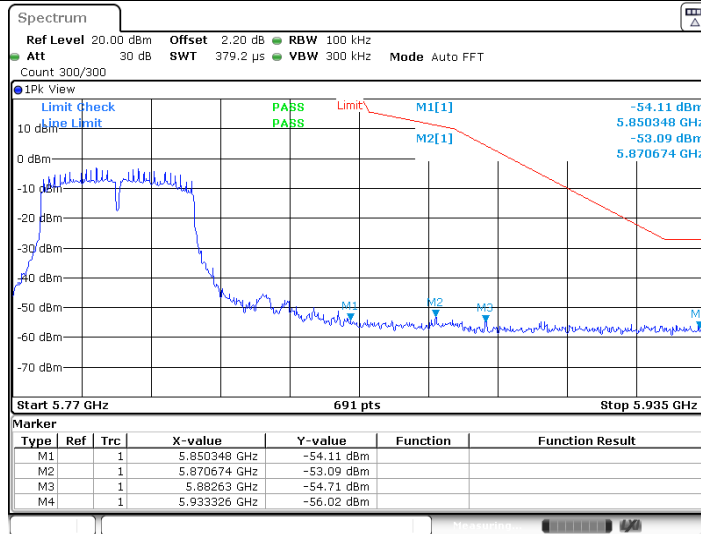
Date: 10 APR 2020 14:05:48

11N40SISO_Ant1_High_5795



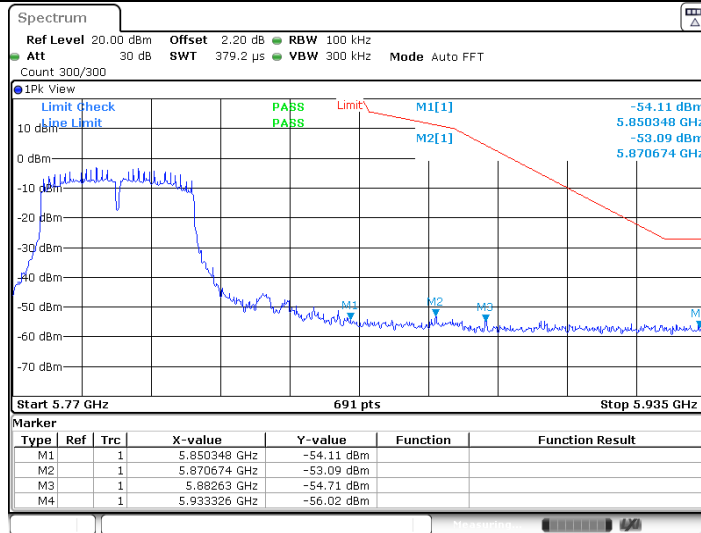
Date: 10 APR 2020 14:05:48

11N40SISO_Ant1_High_5795



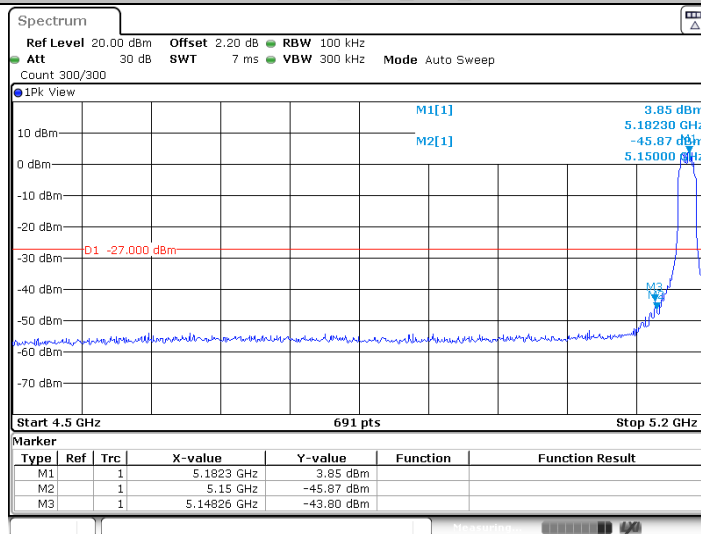
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11N40SISO_Ant1_High_5795



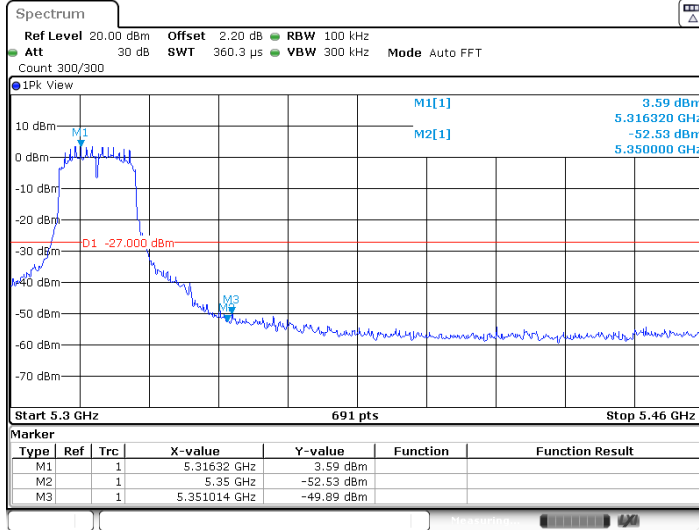
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11AC20SISO_Ant1_Low_5180

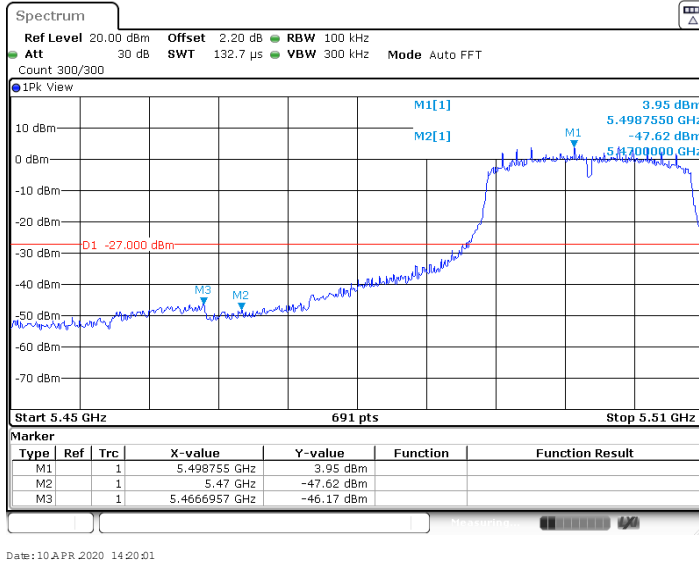


Date: 10 APR 2020 14:09:15

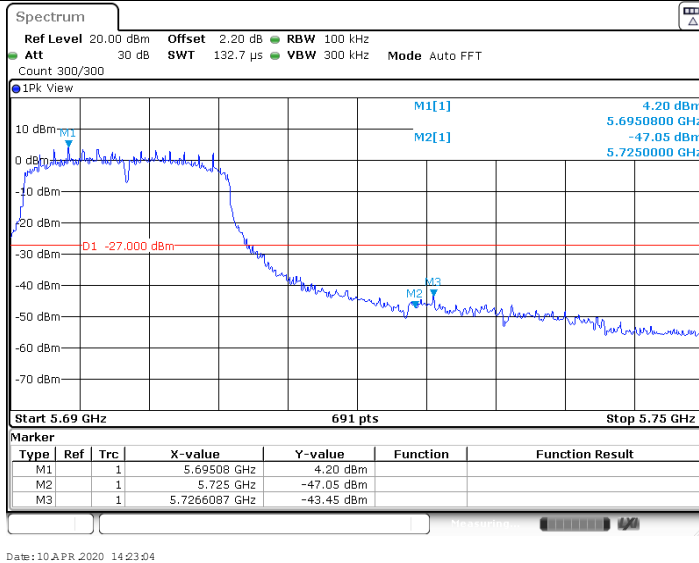
11AC20SISO_Ant1_High_5320



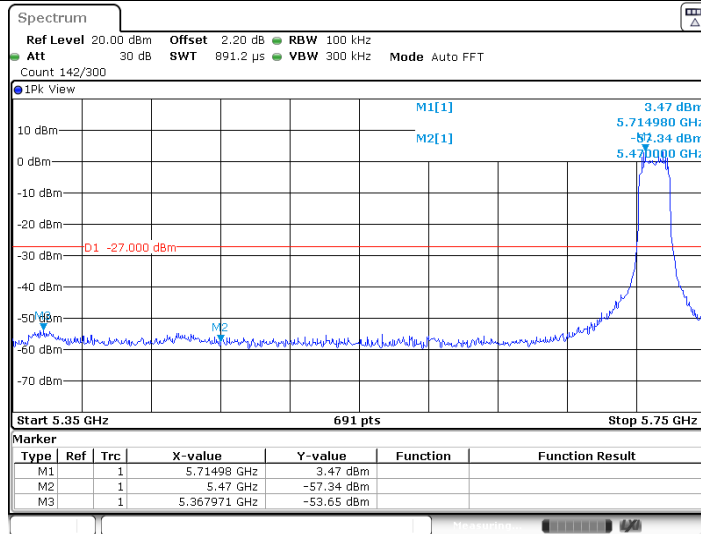
11AC20SISO_Ant1_Low_5500



11AC20SISO_Ant1_High_5700

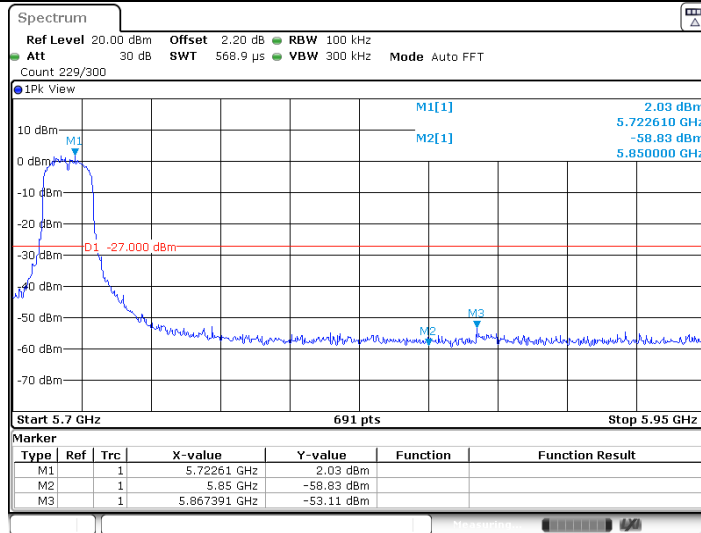


11AC20SISO_Ant1_Low_5720



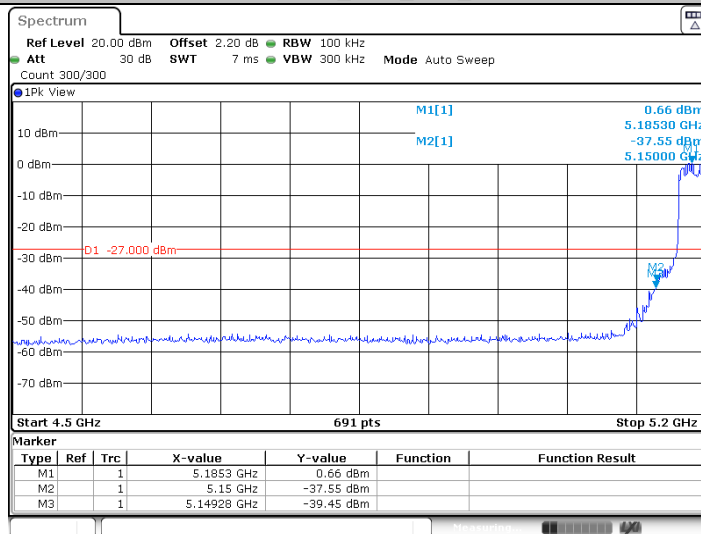
Date: 10 APR 2020 14:24:47

11AC20SISO_Ant1_High_5720



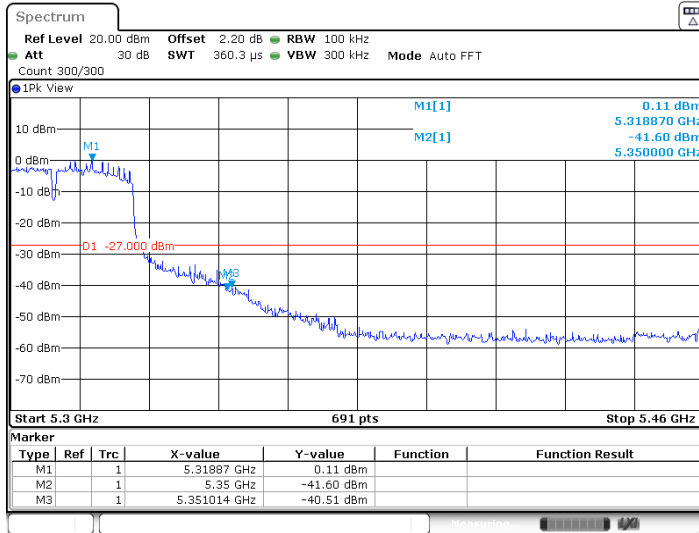
Date: 10 APR 2020 14:25:00

11AC40SISO_Ant1_Low_5190

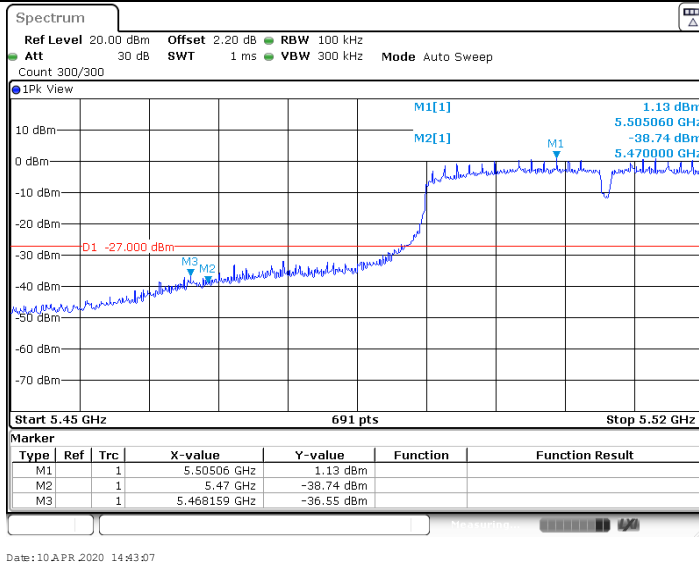


Date: 10 APR 2020 14:36:03

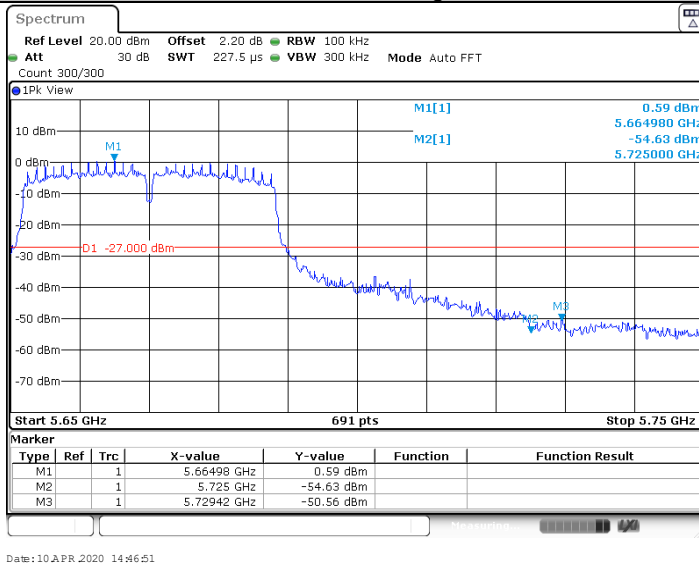
11AC40SISO_Ant1_High_5310



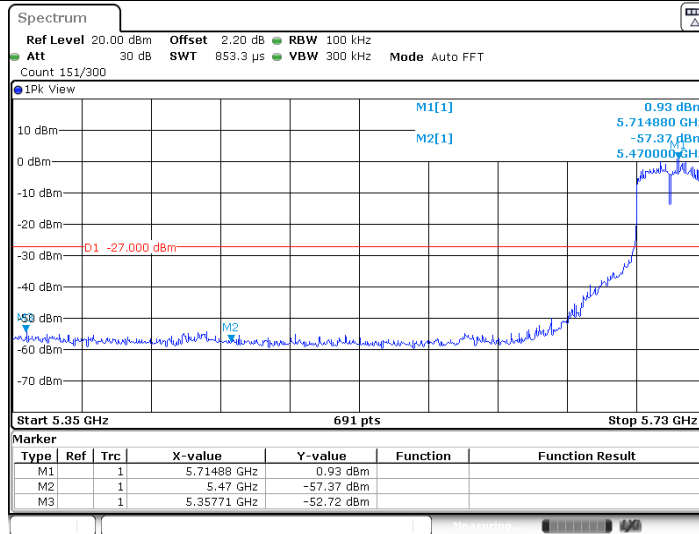
11AC40SISO_Ant1_Low_5510



11AC40SISO_Ant1_High_5670

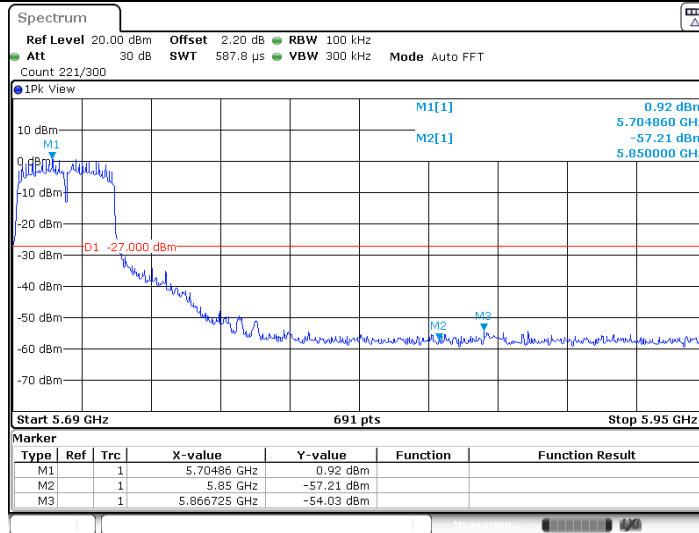


11AC40SISO_Ant1_Low_5710



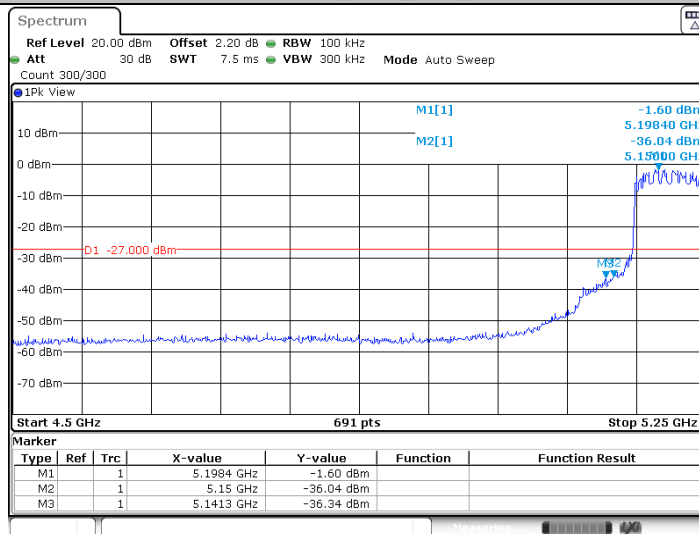
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11AC40SISO_Ant1_High_5710



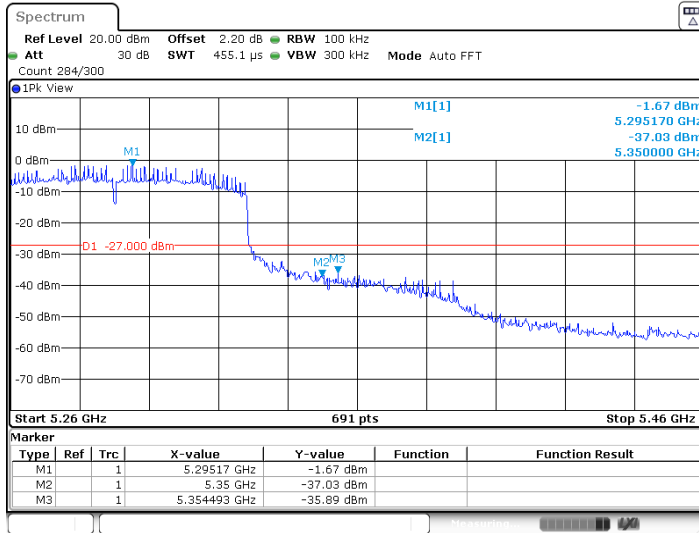
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11AC80SISO_Ant1_Low_5210

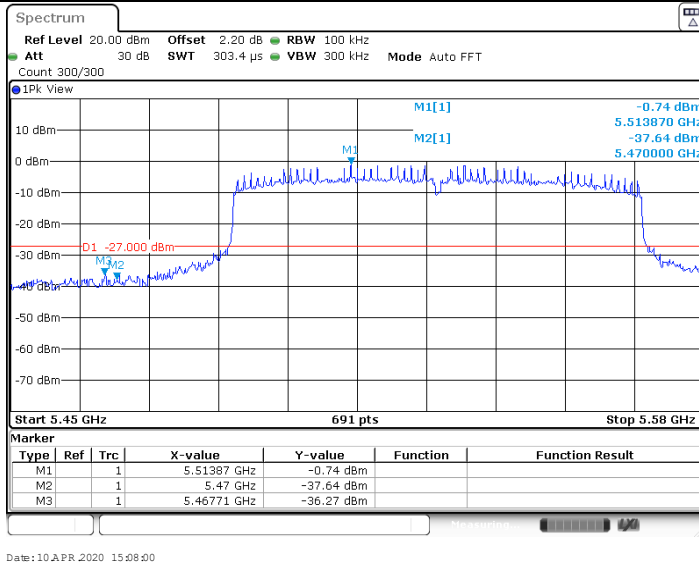


Date: 10 APR 2020 15:17:37

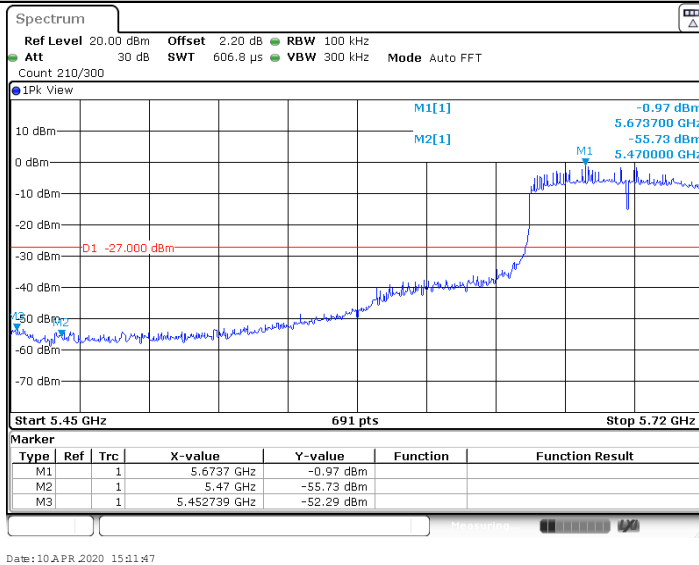
11AC80SISO_Ant1_High_5290



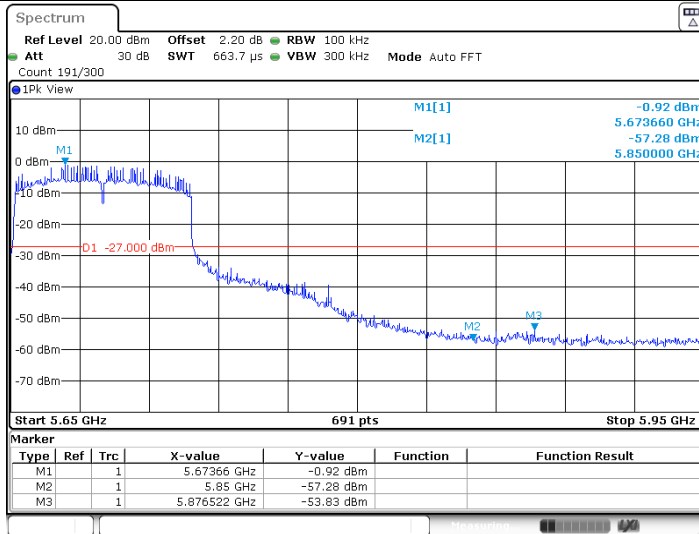
11AC80SISO_Ant1_Low_5530



11AC80SISO_Ant1_Low_5690

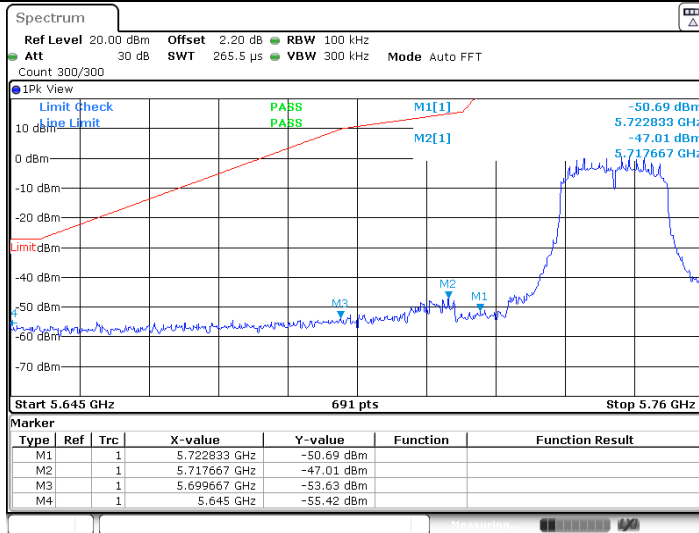


11AC80SISO_Ant1_High_5690



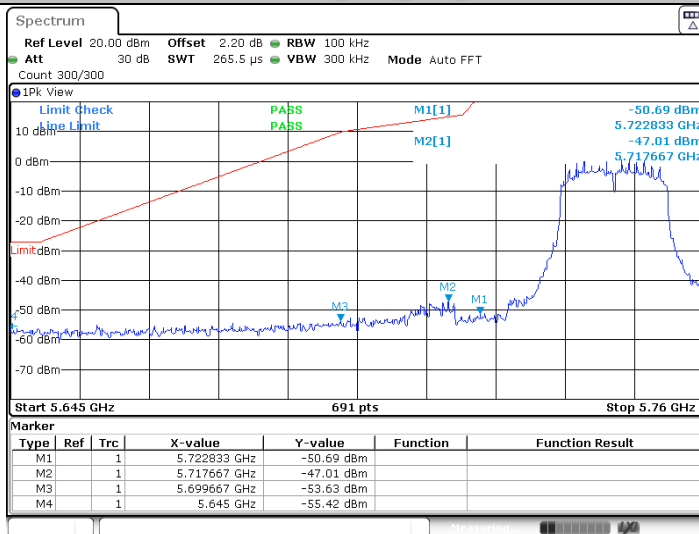
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11AC20SISO_Ant1_Low_5745



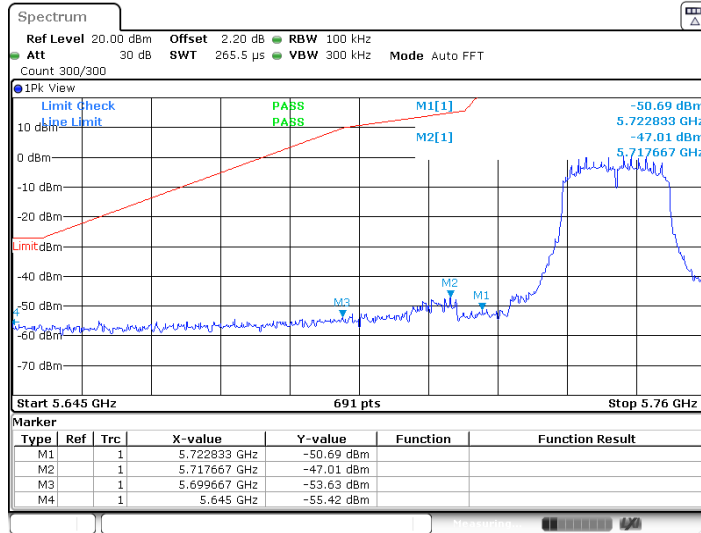
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11AC20SISO_Ant1_Low_5745



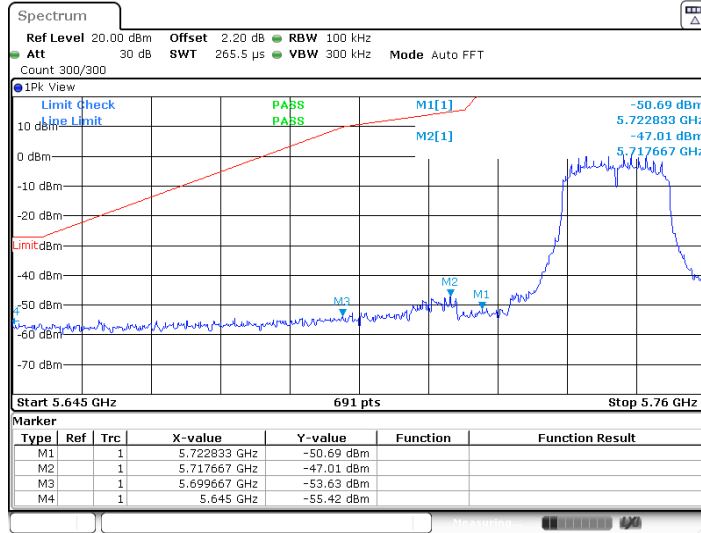
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11AC20SISO_Ant1_Low_5745



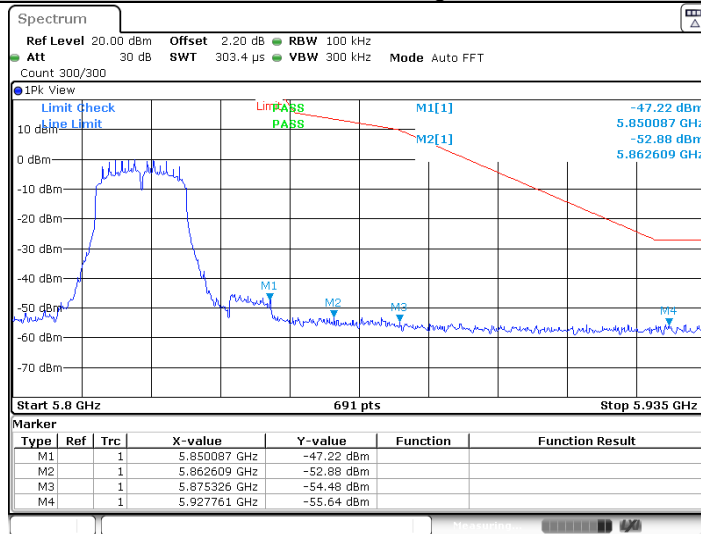
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11AC20SISO_Ant1_Low_5745



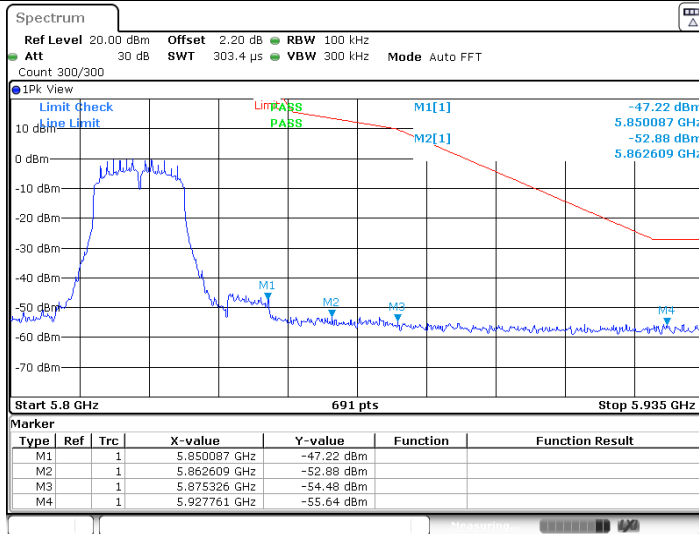
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11AC20SISO_Ant1_High_5825



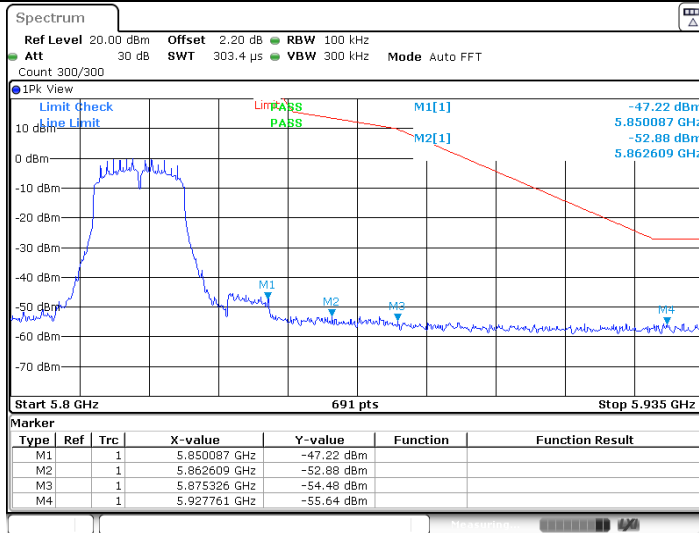
Date: 10 APR 2020 14:31:36

11AC20SISO_Ant1_High_5825



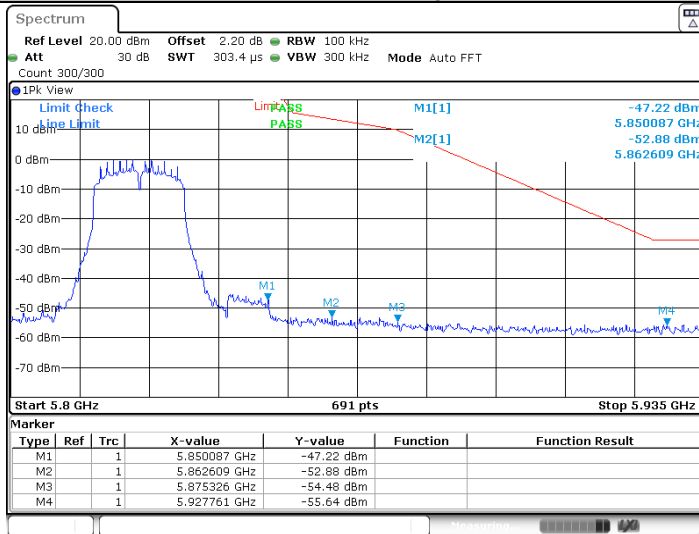
Date: 10 APR 2020 14:31:36

11AC20SISO_Ant1_High_5825



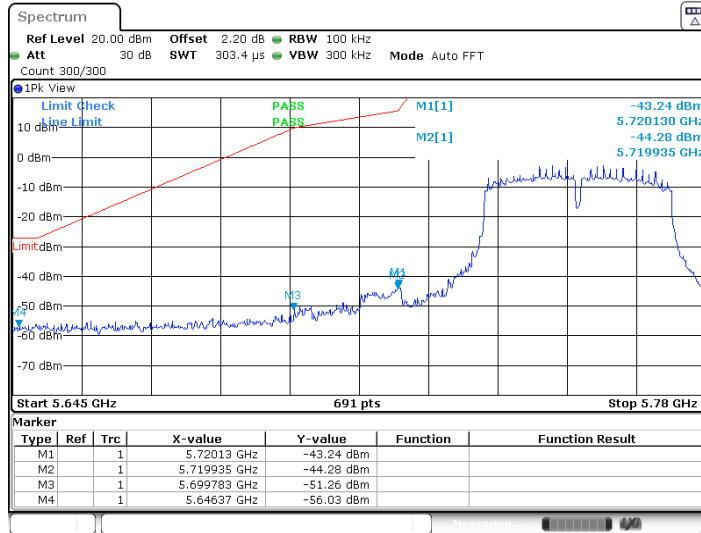
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11AC20SISO_Ant1_High_5825



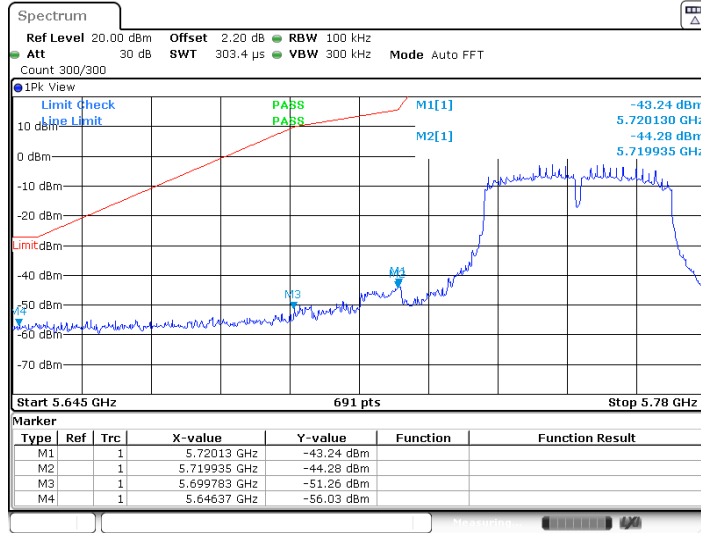
Date: 10 APR 2020 14:31:36

11AC40SISO_Ant1_Low_5755



Date: 10 APR 2020 14:57:49

11AC40SISO_Ant1_Low_5755



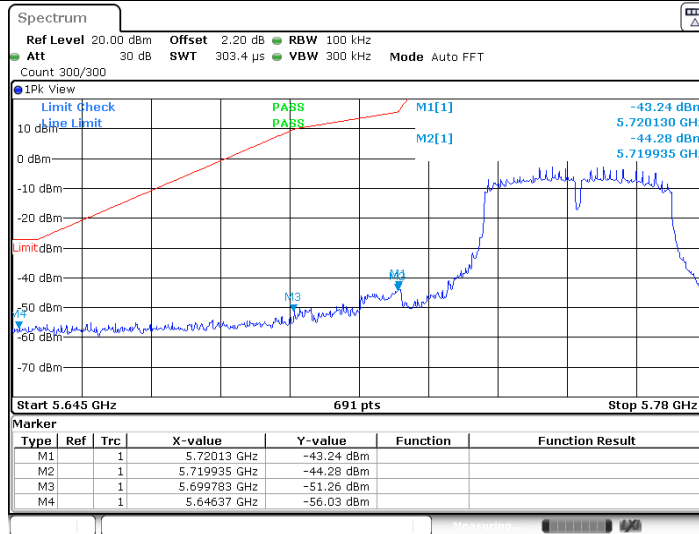
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11AC40SISO_Ant1_Low_5755



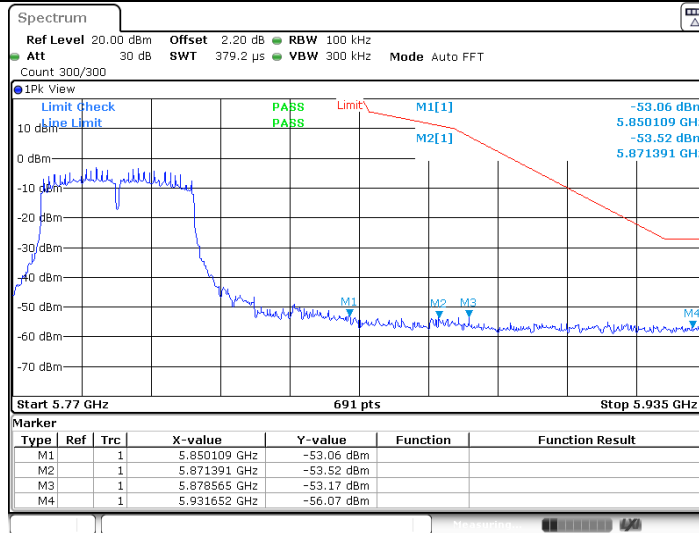
Date: 10 APR 2020 14:57:49

11AC40SISO_Ant1_Low_5755



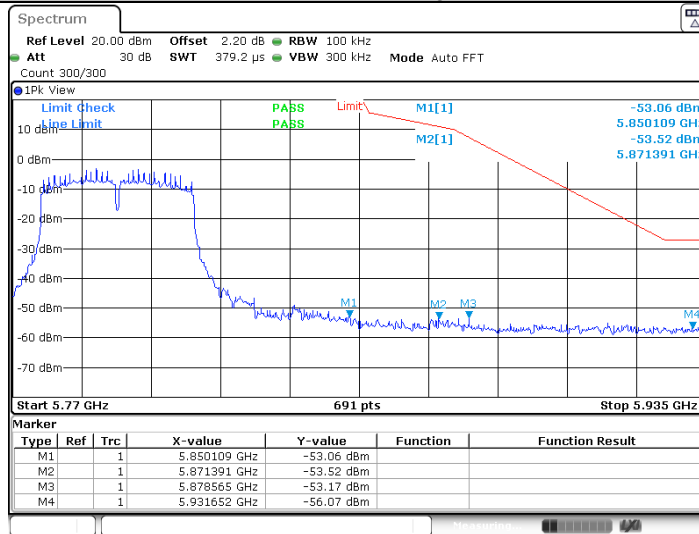
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11AC40SISO_Ant1_High_5795



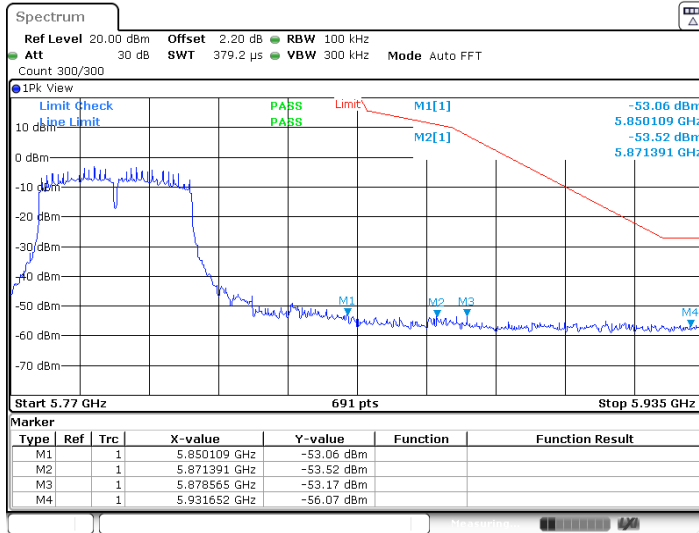
Date: 10 APR 2020 15:00:16

11AC40SISO_Ant1_High_5795



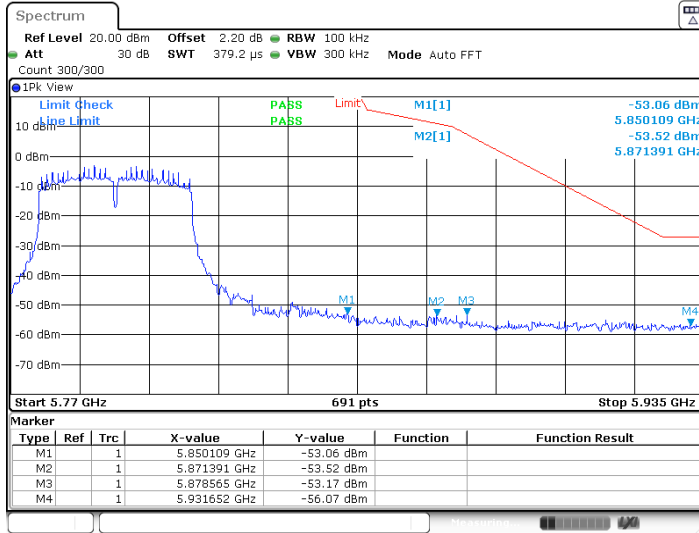
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11AC40SISO_Ant1_High_5795



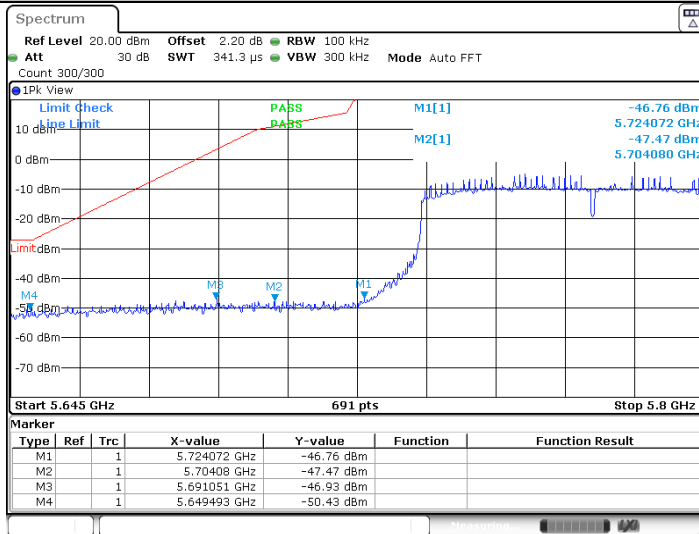
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11AC40SISO_Ant1_High_5795



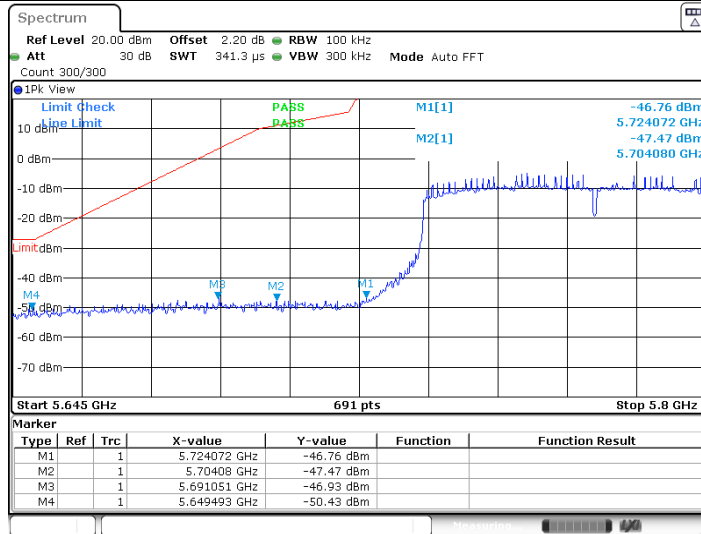
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11AC80SISO_Ant1_Low_5775



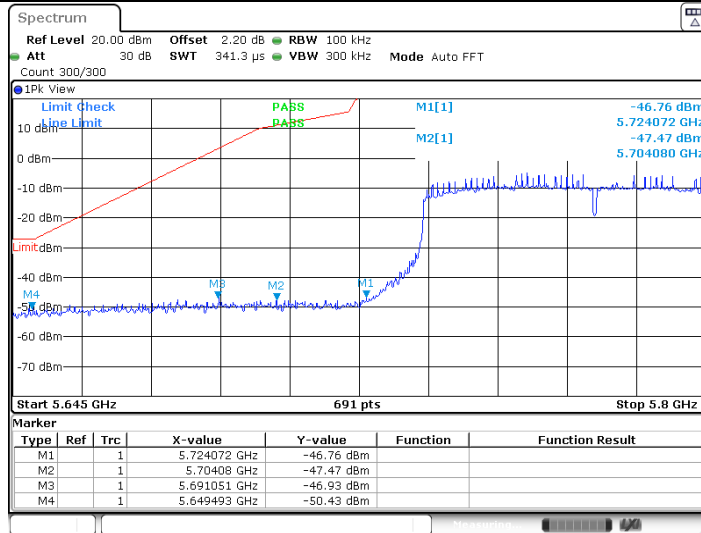
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11AC80SISO_Ant1_Low_5775



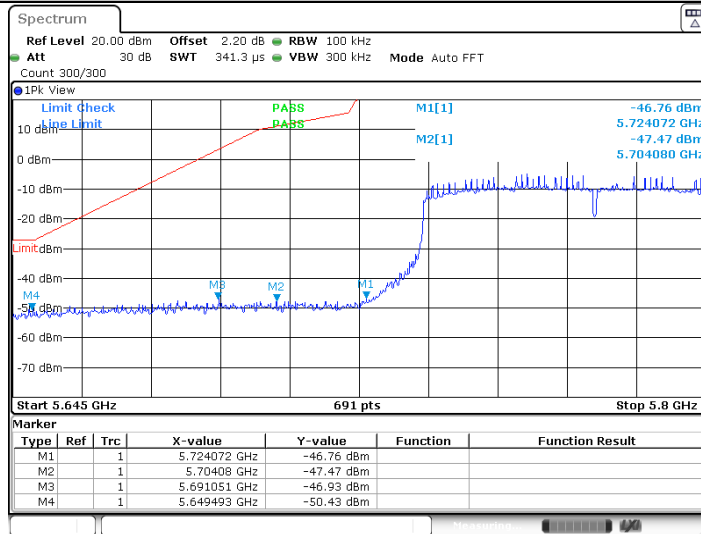
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11AC80SISO_Ant1_Low_5775



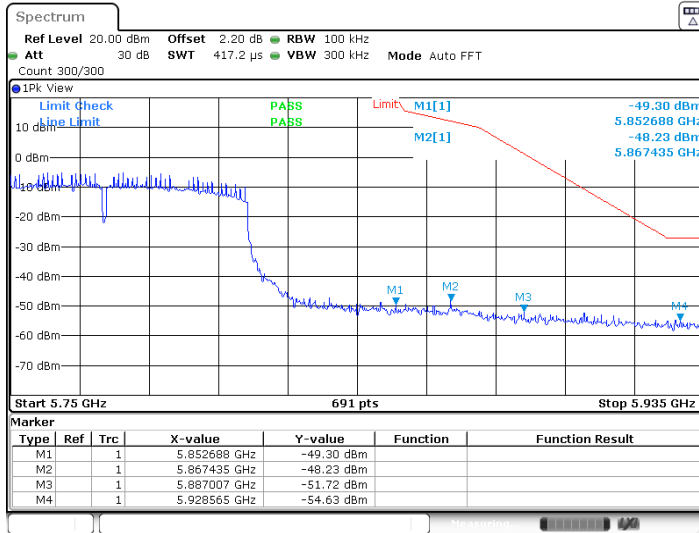
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11AC80SISO_Ant1_Low_5775



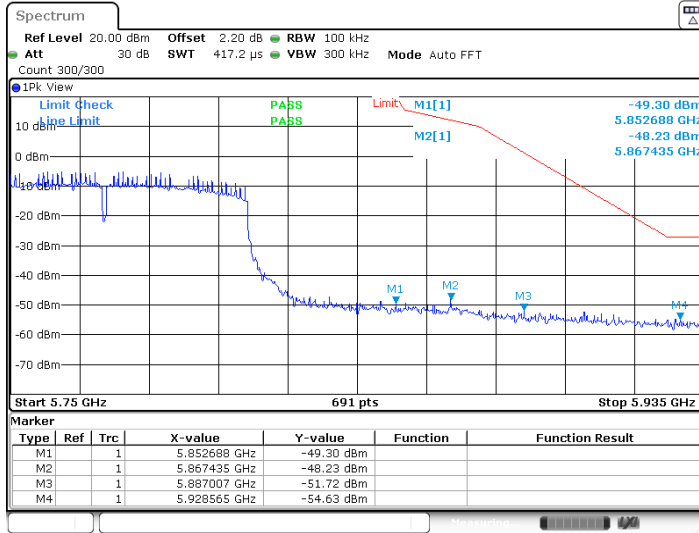
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11AC80SISO_Ant1_High_5775



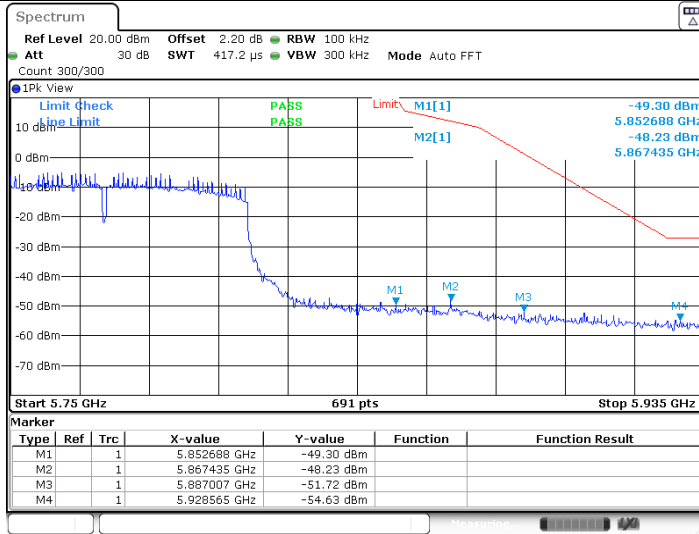
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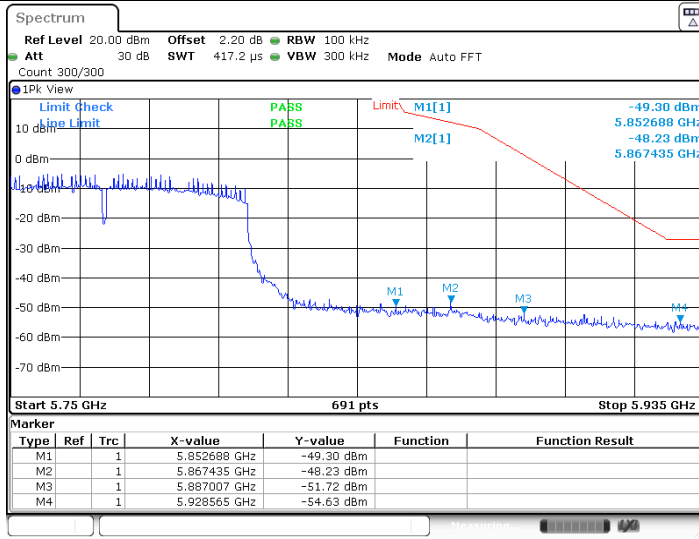
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11AC80SISO_Ant1_High_5775



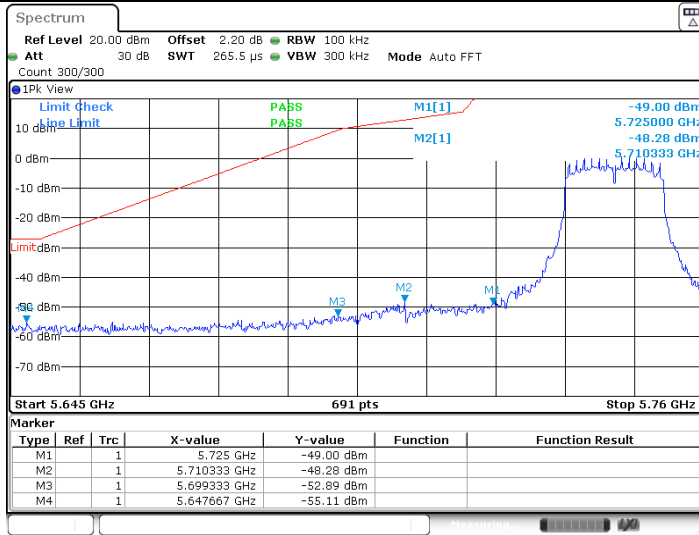
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11AC80SISO Ant1_High_5775



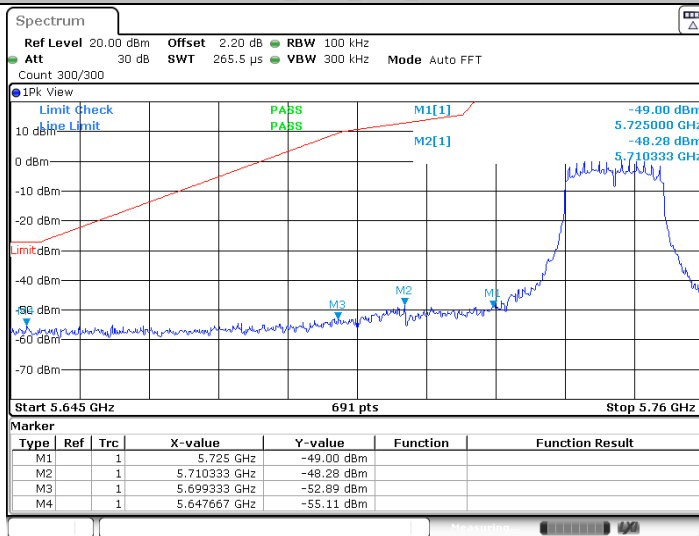
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11A_Ant1_Low_5745

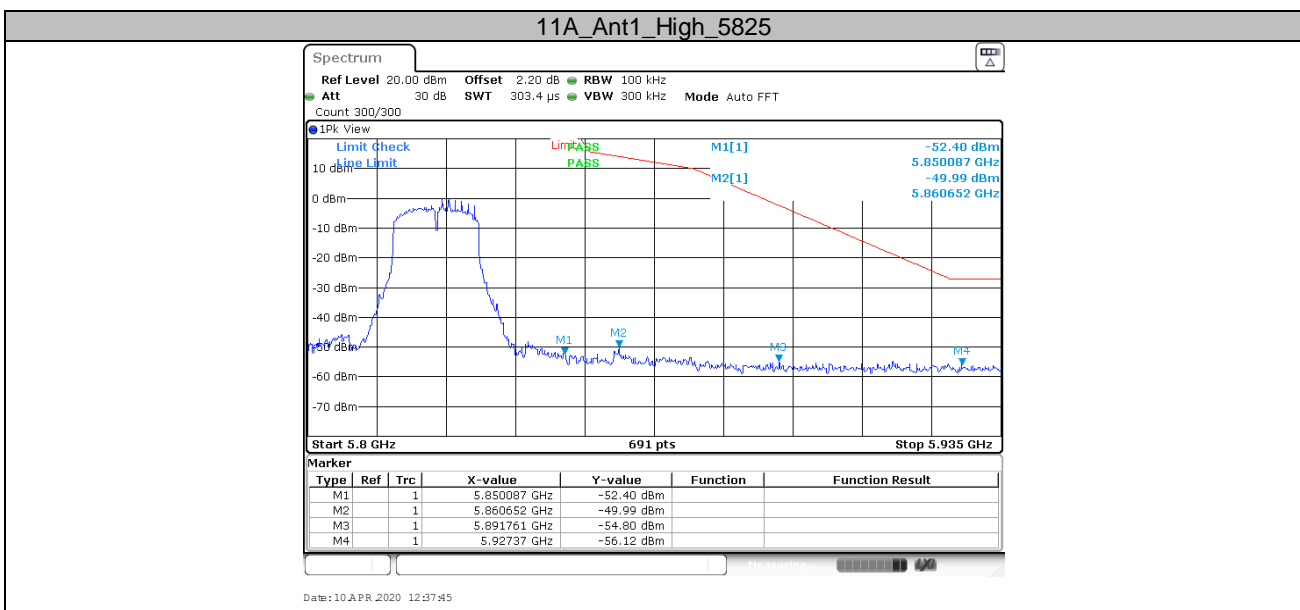
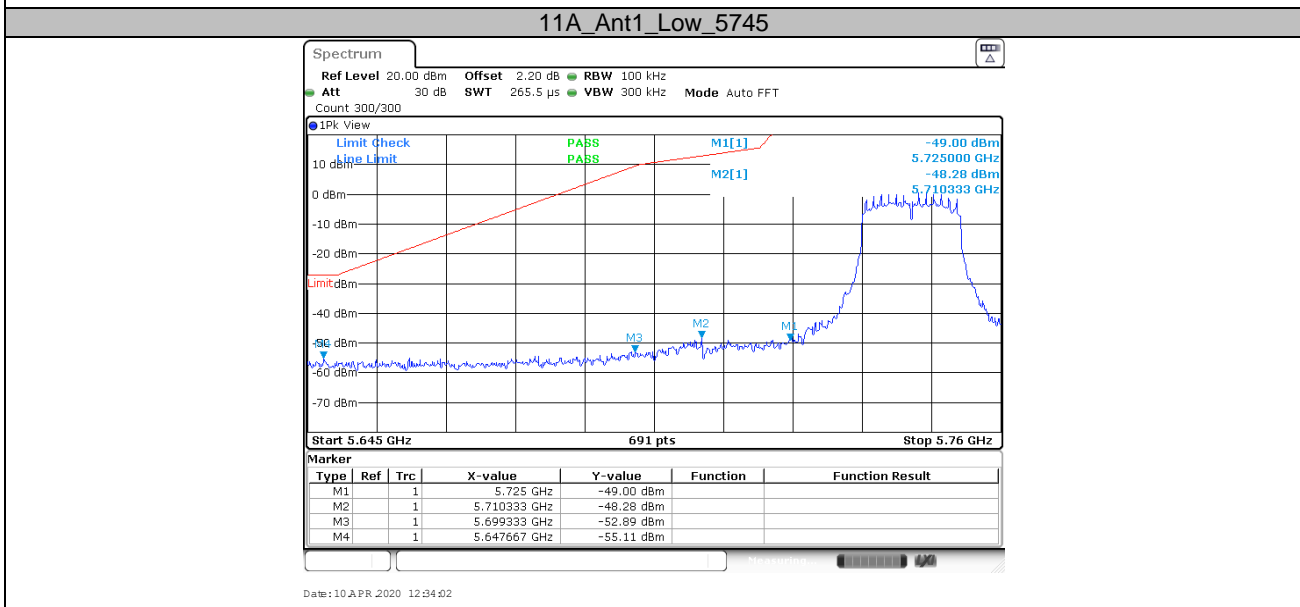
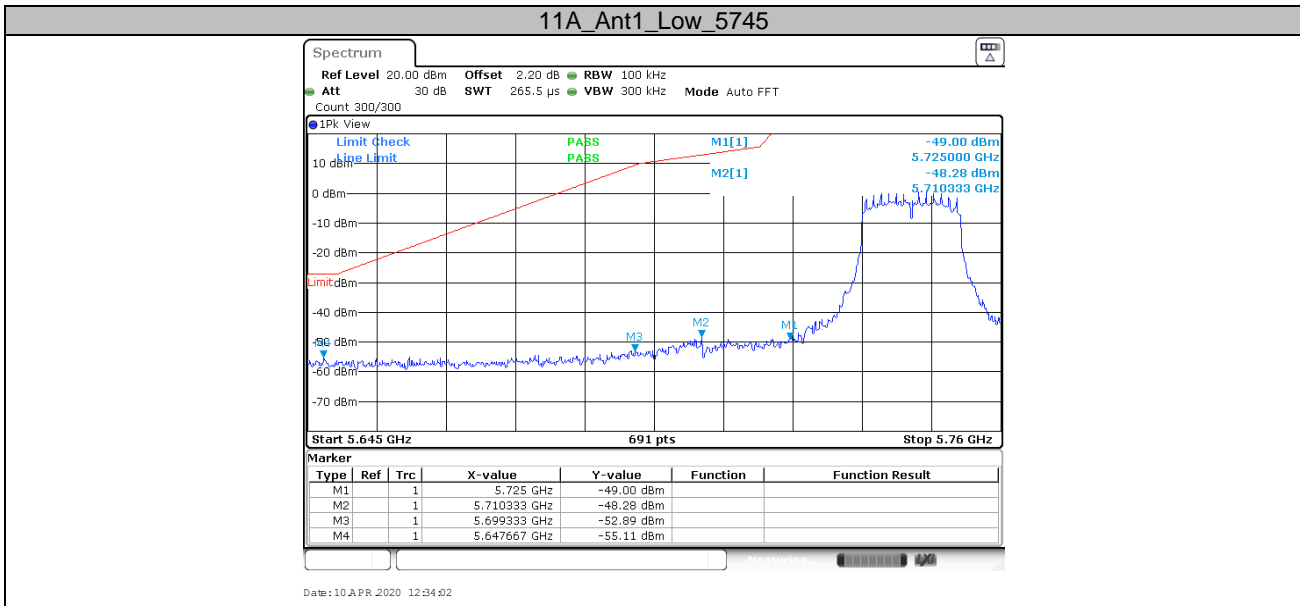


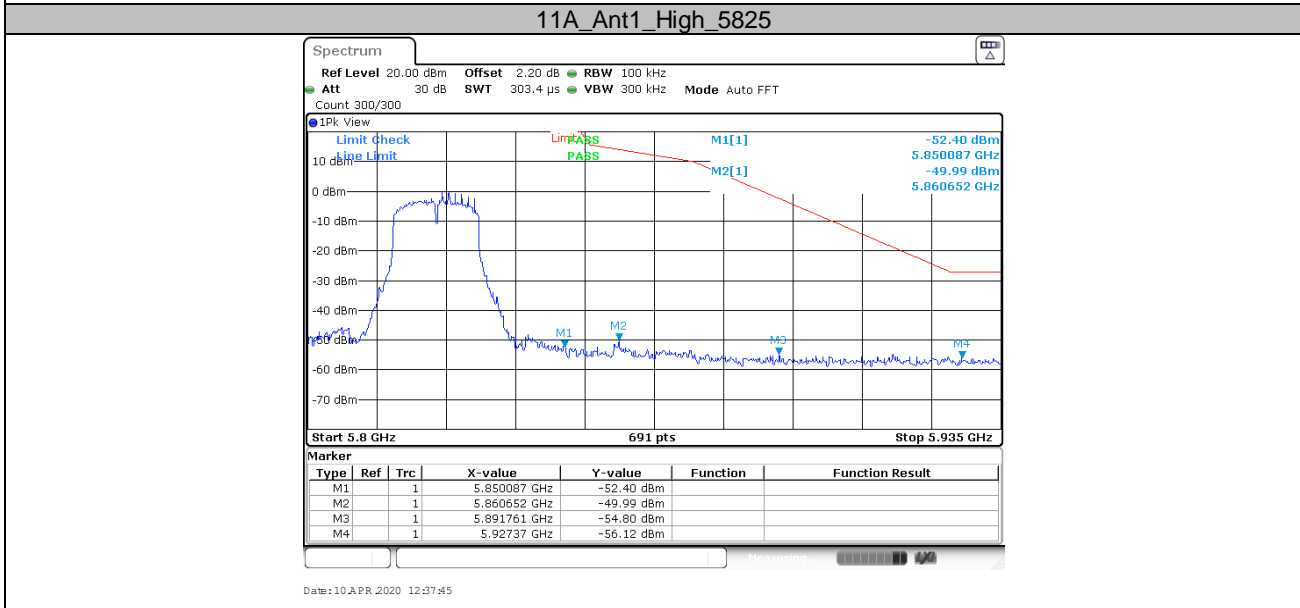
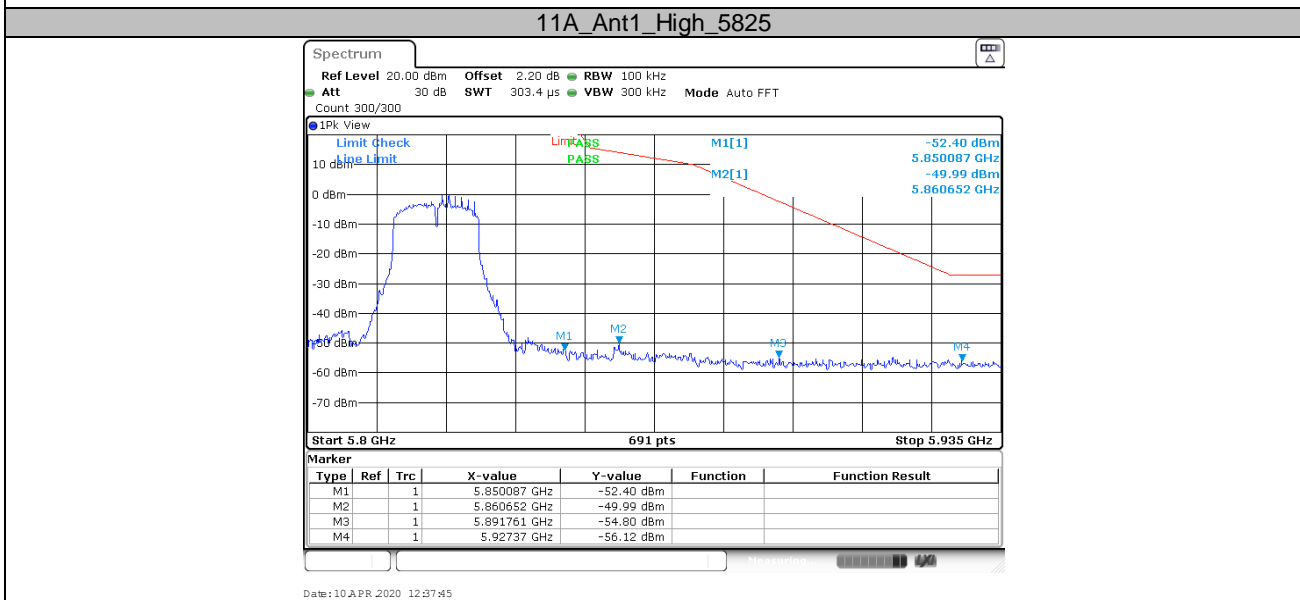
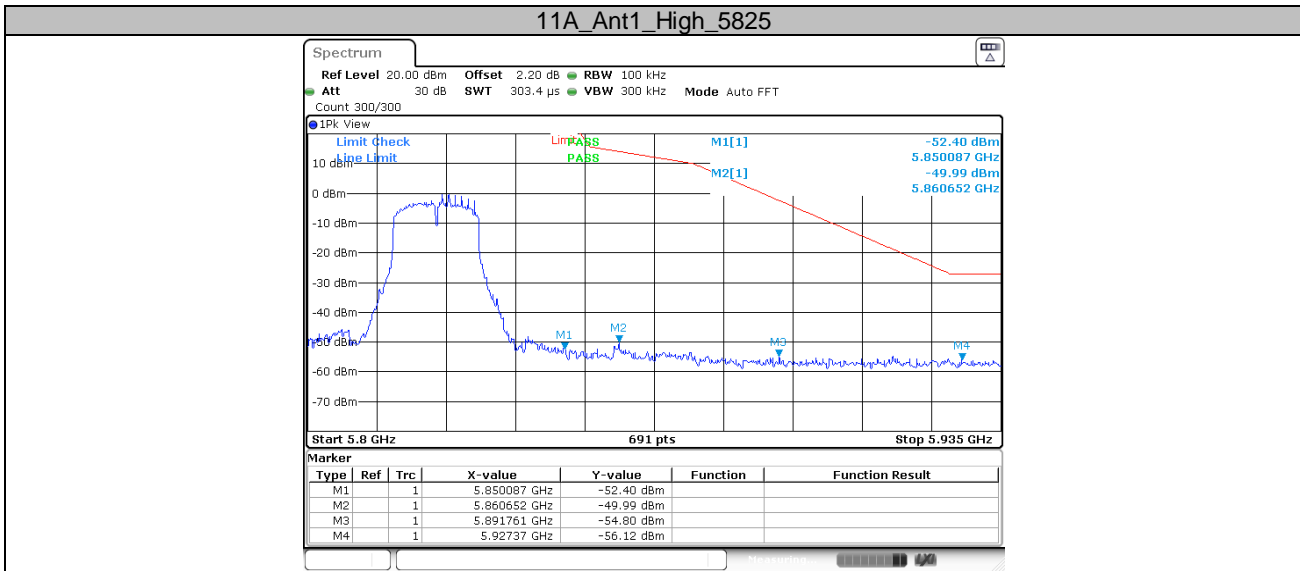
Date: 10 APR 2020 12:34:02

11A_Ant1_Low_5745



Date: 10 APR 2020 12:34:02





9.7 Frequencies Stability

Test Method

1. The EUT was placed on 0.8m height table, the RF output of EUT was connected to the test receiver by RF cable. The path loss was compensated to the results for each measurement.
2. Set Centre Frequency of the channel under test.
3. Set Detector PEAK
4. Set RBW: 10KHz, VBW: 3RBW
5. Set Span: Encompass the entire emissions bandwidth (EBW) of the signal.
6. Allow the trace to stabilize, find the peak value of the power envelope and record the frequency, then calculated the frequency drift.

The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

User manual temperature is -10°C to 35°C, normal Temperature is +20°C.

Limit: 20ppm

Test Results (All conditions and all modes were performed, only list Worst-Case in the report)

Remark: NV is normal Voltage: 3.85Vdc, HV is High Voltage: 4.393Vdc, LV is Low Voltage: 3.247Vdc, NT is normal Temperature: +20°C.

TestMode	Antenna	Channel	Voltage		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
			Voltage [Vdc]	Temperature (°C)				
11A	Ant1	5180	NV	NT	45000	8.687259	20	PASS
		5180	LV	NT	44000	8.494208	20	PASS
		5180	HV	NT	44000	8.494208	20	PASS
		5200	NV	NT	44000	8.461538	20	PASS
		5200	LV	NT	44000	8.461538	20	PASS
		5200	HV	NT	44000	8.461538	20	PASS
		5240	NV	NT	45000	8.587786	20	PASS
		5240	LV	NT	45000	8.587786	20	PASS
		5240	HV	NT	45000	8.587786	20	PASS
		5260	NV	NT	44000	8.365019	20	PASS
		5260	LV	NT	44000	8.365019	20	PASS
		5260	HV	NT	44000	8.365019	20	PASS
		5280	NV	NT	43000	8.143939	20	PASS
		5280	LV	NT	43000	8.143939	20	PASS
		5280	HV	NT	43000	8.143939	20	PASS
		5320	NV	NT	43000	8.082707	20	PASS
		5320	LV	NT	43000	8.082707	20	PASS
		5320	HV	NT	43000	8.082707	20	PASS
		5500	NV	NT	45000	8.181818	20	PASS
		5500	LV	NT	45000	8.181818	20	PASS
		5500	HV	NT	45000	8.181818	20	PASS
		5580	NV	NT	45000	8.064516	20	PASS
		5580	LV	NT	46000	8.243728	20	PASS
		5580	HV	NT	46000	8.243728	20	PASS
5700	NV	NT	48000	8.421053	20	PASS		
5700	LV	NT	48000	8.421053	20	PASS		
5700	HV	NT	48000	8.421053	20	PASS		
5720	NV	NT	50000	8.741259	20	PASS		
5720	LV	NT	49000	8.566434	20	PASS		
5720	HV	NT	49000	8.566434	20	PASS		



		5745	NV	NT	50000	8.70322	20	PASS
		5745	LV	NT	49000	8.529156	20	PASS
		5745	HV	NT	49000	8.529156	20	PASS
		5785	NV	NT	50000	8.643042	20	PASS
		5785	LV	NT	50000	8.643042	20	PASS
		5785	HV	NT	50000	8.643042	20	PASS
		5825	NV	NT	50000	8.583691	20	PASS
		5825	LV	NT	50000	8.583691	20	PASS
		5825	HV	NT	50000	8.583691	20	PASS
11N40SIS O	Ant1	5190	NV	NT	45000	8.67052	20	PASS
		5190	LV	NT	44000	8.477842	20	PASS
		5190	HV	NT	43000	8.285164	20	PASS
		5230	NV	NT	59900	11.453155	20	PASS
		5230	LV	NT	55900	10.688337	20	PASS
		5230	HV	NT	53900	10.305927	20	PASS
		5270	NV	NT	47000	8.918406	20	PASS
		5270	LV	NT	47000	8.918406	20	PASS
		5270	HV	NT	46000	8.728653	20	PASS
		5310	NV	NT	42000	7.909605	20	PASS
		5310	LV	NT	42000	7.909605	20	PASS
		5310	HV	NT	41000	7.721281	20	PASS
		5510	NV	NT	41000	7.441016	20	PASS
		5510	LV	NT	42000	7.622505	20	PASS
		5510	HV	NT	42000	7.622505	20	PASS
		5550	NV	NT	40000	7.207207	20	PASS
		5550	LV	NT	41000	7.387387	20	PASS
		5550	HV	NT	42000	7.567568	20	PASS
		5670	NV	NT	42000	7.407407	20	PASS
		5670	LV	NT	42000	7.407407	20	PASS
		5670	HV	NT	43000	7.583774	20	PASS
		5710	NV	NT	41000	7.180385	20	PASS
		5710	LV	NT	43000	7.530648	20	PASS
		5710	HV	NT	43000	7.530648	20	PASS
		5755	NV	NT	41000	7.12424	20	PASS
		5755	LV	NT	43000	7.471764	20	PASS
		5755	HV	NT	43000	7.471764	20	PASS
		5795	NV	NT	42000	7.247627	20	PASS
		5795	LV	NT	44000	7.592752	20	PASS
		5795	HV	NT	44000	7.592752	20	PASS
11AC80SIS O	Ant1	5210	NV	NT	38000	7.293666	20	PASS
		5210	LV	NT	40000	7.677543	20	PASS
		5210	HV	NT	40000	7.677543	20	PASS
		5290	NV	NT	42000	7.939509	20	PASS
		5290	LV	NT	43000	8.128544	20	PASS
		5290	HV	NT	43000	8.128544	20	PASS
		5530	NV	NT	41000	7.414105	20	PASS
		5530	LV	NT	45000	8.137432	20	PASS
		5530	HV	NT	45000	8.137432	20	PASS
		5690	NV	NT	44000	7.732865	20	PASS
		5690	LV	NT	46000	8.084359	20	PASS
		5690	HV	NT	47000	8.260105	20	PASS
		5775	NV	NT	43000	7.445887	20	PASS
		5775	LV	NT	47000	8.138528	20	PASS
		5775	HV	NT	47000	8.138528	20	PASS



TestMode	Antenna	Channel	Temperature					Limit (ppm)	Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)			
11A	Ant1	5180	NV	-10	44000	8.494208	20	PASS	
		5180	NV	0	44000	8.494208	20	PASS	
		5180	NV	10	44000	8.494208	20	PASS	
		5180	NV	20	44000	8.494208	20	PASS	
		5180	NV	35	44000	8.494208	20	PASS	
		5200	NV	-10	44000	8.461538	20	PASS	
		5200	NV	0	44000	8.461538	20	PASS	
		5200	NV	10	44000	8.461538	20	PASS	
		5200	NV	20	44000	8.461538	20	PASS	
		5200	NV	35	44000	8.461538	20	PASS	
		5240	NV	-10	44000	8.396947	20	PASS	
		5240	NV	0	44000	8.396947	20	PASS	
		5240	NV	10	44000	8.396947	20	PASS	
		5240	NV	20	44000	8.396947	20	PASS	
		5240	NV	35	44000	8.396947	20	PASS	
		5260	NV	-10	44000	8.365019	20	PASS	
		5260	NV	0	43000	8.174905	20	PASS	
		5260	NV	10	43000	8.174905	20	PASS	
		5260	NV	20	43000	8.174905	20	PASS	
		5260	NV	35	43000	8.174905	20	PASS	
		5280	NV	-10	43000	8.143939	20	PASS	
		5280	NV	0	43000	8.143939	20	PASS	
		5280	NV	10	43000	8.143939	20	PASS	
		5280	NV	20	43000	8.143939	20	PASS	
		5280	NV	35	43000	8.143939	20	PASS	
		5320	NV	-10	43000	8.082707	20	PASS	
		5320	NV	0	43000	8.082707	20	PASS	
		5320	NV	10	43000	8.082707	20	PASS	
		5320	NV	20	43000	8.082707	20	PASS	
		5320	NV	35	43000	8.082707	20	PASS	
		5500	NV	-10	45000	8.181818	20	PASS	
		5500	NV	0	45000	8.181818	20	PASS	
		5500	NV	10	45000	8.181818	20	PASS	
		5500	NV	20	45000	8.181818	20	PASS	
		5500	NV	35	45000	8.181818	20	PASS	
		5580	NV	-10	46000	8.243728	20	PASS	
		5580	NV	0	46000	8.243728	20	PASS	
		5580	NV	10	46000	8.243728	20	PASS	
		5580	NV	20	46000	8.243728	20	PASS	
		5580	NV	35	46000	8.243728	20	PASS	
5700	NV	-10	48000	8.421053	20	PASS			
5700	NV	0	48000	8.421053	20	PASS			
5700	NV	10	48000	8.421053	20	PASS			
5700	NV	20	48000	8.421053	20	PASS			
5700	NV	35	48000	8.421053	20	PASS			
5720	NV	-10	49000	8.566434	20	PASS			
5720	NV	0	49000	8.566434	20	PASS			
5720	NV	10	49000	8.566434	20	PASS			
5720	NV	20	49000	8.566434	20	PASS			
5720	NV	35	49000	8.566434	20	PASS			
5745	NV	-10	49000	8.529156	20	PASS			
5745	NV	0	49000	8.529156	20	PASS			
5745	NV	10	49000	8.529156	20	PASS			
5745	NV	20	49000	8.529156	20	PASS			
5745	NV	35	49000	8.529156	20	PASS			
5785	NV	-10	50000	8.643042	20	PASS			
5785	NV	0	50000	8.643042	20	PASS			
5785	NV	10	50000	8.643042	20	PASS			
5785	NV	20	50000	8.643042	20	PASS			



		5785	NV	35	50000	8.643042	20	PASS
		5825	NV	-10	50000	8.583691	20	PASS
		5825	NV	0	50000	8.583691	20	PASS
		5825	NV	10	50000	8.583691	20	PASS
		5825	NV	20	50000	8.583691	20	PASS
		5825	NV	35	50000	8.583691	20	PASS
11N40SIS O	Ant1	5190	NV	-10	43000	8.285164	20	PASS
		5190	NV	0	42000	8.092486	20	PASS
		5190	NV	10	42000	8.092486	20	PASS
		5190	NV	20	42000	8.092486	20	PASS
		5190	NV	35	42000	8.092486	20	PASS
		5230	NV	-10	50900	9.732314	20	PASS
		5230	NV	0	50000	9.560229	20	PASS
		5230	NV	10	50000	9.560229	20	PASS
		5230	NV	20	49000	9.369025	20	PASS
		5230	NV	35	48000	9.17782	20	PASS
		5270	NV	-10	45000	8.538899	20	PASS
		5270	NV	0	45000	8.538899	20	PASS
		5270	NV	10	45000	8.538899	20	PASS
		5270	NV	20	44000	8.349146	20	PASS
		5270	NV	35	43000	8.159393	20	PASS
		5310	NV	-10	41000	7.721281	20	PASS
		5310	NV	0	41000	7.721281	20	PASS
		5310	NV	10	41000	7.721281	20	PASS
		5310	NV	20	41000	7.721281	20	PASS
		5310	NV	35	41000	7.721281	20	PASS
		5510	NV	-10	42000	7.622505	20	PASS
		5510	NV	0	42000	7.622505	20	PASS
		5510	NV	10	41000	7.441016	20	PASS
		5510	NV	20	41000	7.441016	20	PASS
		5510	NV	35	41000	7.441016	20	PASS
		5550	NV	-10	42000	7.567568	20	PASS
		5550	NV	0	42000	7.567568	20	PASS
		5550	NV	10	41000	7.387387	20	PASS
		5550	NV	20	42000	7.567568	20	PASS
		5550	NV	35	42000	7.567568	20	PASS
		5670	NV	-10	43000	7.583774	20	PASS
		5670	NV	0	43000	7.583774	20	PASS
		5670	NV	10	42000	7.407407	20	PASS
		5670	NV	20	42000	7.407407	20	PASS
		5670	NV	35	43000	7.583774	20	PASS
		5710	NV	-10	43000	7.530648	20	PASS
		5710	NV	0	43000	7.530648	20	PASS
		5710	NV	10	43000	7.530648	20	PASS
		5710	NV	20	43000	7.530648	20	PASS
		5710	NV	35	43000	7.530648	20	PASS
5755	NV	-10	44000	7.645526	20	PASS		
5755	NV	0	44000	7.645526	20	PASS		
5755	NV	10	44000	7.645526	20	PASS		
5755	NV	20	44000	7.645526	20	PASS		
5755	NV	35	44000	7.645526	20	PASS		
5795	NV	-10	44000	7.592752	20	PASS		
5795	NV	0	44000	7.592752	20	PASS		
5795	NV	10	44000	7.592752	20	PASS		
5795	NV	20	44000	7.592752	20	PASS		
5795	NV	35	44000	7.592752	20	PASS		
11AC80SIS O	Ant1	5210	NV	-10	41000	7.869482	20	PASS
		5210	NV	0	41000	7.869482	20	PASS
		5210	NV	10	41000	7.869482	20	PASS
		5210	NV	20	41000	7.869482	20	PASS
		5210	NV	35	41000	7.869482	20	PASS
		5290	NV	-10	43000	8.128544	20	PASS
		5290	NV	0	44000	8.31758	20	PASS
5290	NV	10	43000	8.128544	20	PASS		



		5290	NV	20	44000	8.31758	20	PASS
		5290	NV	35	43000	8.128544	20	PASS
		5530	NV	-10	45000	8.137432	20	PASS
		5530	NV	0	45000	8.137432	20	PASS
		5530	NV	10	45000	8.137432	20	PASS
		5530	NV	20	45000	8.137432	20	PASS
		5530	NV	35	45000	8.137432	20	PASS
		5690	NV	-10	47000	8.260105	20	PASS
		5690	NV	0	47000	8.260105	20	PASS
		5690	NV	10	47000	8.260105	20	PASS
		5690	NV	20	47000	8.260105	20	PASS
		5690	NV	35	47000	8.260105	20	PASS
		5775	NV	-10	48000	8.311688	20	PASS
		5775	NV	0	48000	8.311688	20	PASS
		5775	NV	10	48000	8.311688	20	PASS
		5775	NV	20	48000	8.311688	20	PASS
		5775	NV	35	48000	8.311688	20	PASS

9.8 Dynamic Frequency Selection (DFS)

1、 General Test Condition

Parameters of EUT	
Frequency	5250 – 5350 MHz & 5470 – 5725 MHz
Operational Mode	Slave
Modulation:	OFDM
Channel Bandwidth:	20 MHz , 40 MHz. 80 MHz

Note: This device was functioned as a Slave device during the DFS

2、 Test requirement

The manufacturer shall whether the EUT is capable of operating as a master and a client. If the EUT is capable of operating in more than one operating mode then each operating mode shall be tested separately.

DFS Applicability

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
Uniform Spreading	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

DFS Applicability During Normal Operation

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Yes	Not required
Uniform Spreading	Yes	Yes	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

3、 Test Limited

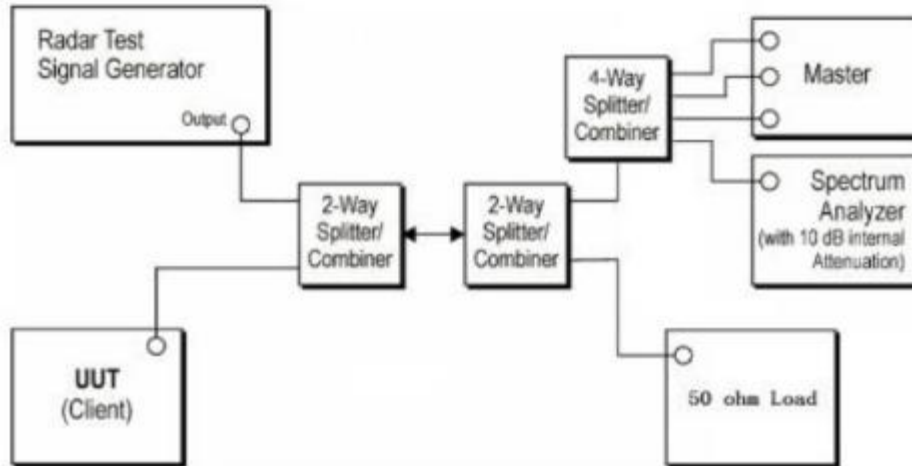
According to KDB 905462 D02 Table 4 DFS Response Requirement Values

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.
<p>Note 1: <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.</p> <p>Note 2: The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel</i> move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.</p> <p>Note 3: During the <i>U-NII Detection Bandwidth</i> detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.</p>	

4、 Calibration of Radar Waveform

- (1) A 50ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to place of the master.
- (2) The interference Radar Detection Threshold Level is $-62\text{dBm}+3.7\text{dB}+1.5\text{dB}=-55.8\text{dBm}$ that had been taken into account the output power range and antenna gain.
- (3) The following equipment setup was used to calibrate the conducted radar waveform. A vector signal generator was utilized to establish the test signal level for radar type 0. During this process there were no transmissions by either the master or client device. The spectrum analyzer was switched to the zero spans (time domain) at the frequency of the radar waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3MHz. The spectrum analyzer had offset -1.5dB to compensate RF cable loss 1.5dB.
- (4) The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was $-62\text{dBm}+3.7\text{dB}+1.5\text{dB}=-55.8\text{dBm}$. Capture the spectrum analyzer plots on short pulse radar waveform.

Conducted Calibration Setup:



Radar Waveform Calibration result:

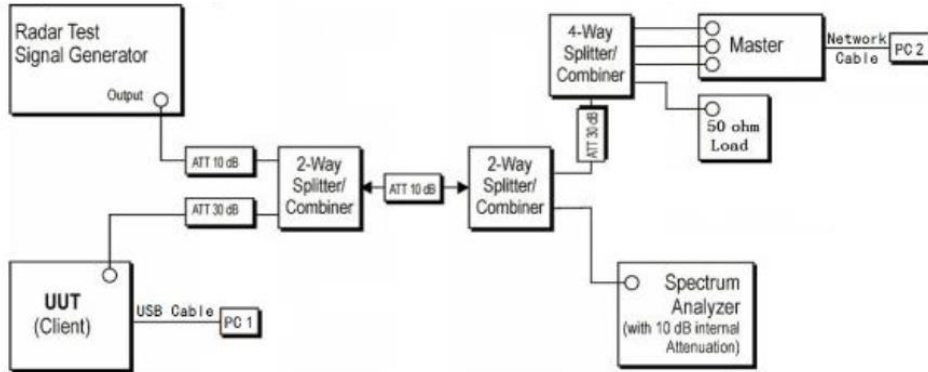
5、Channel Closing Transmission Time, Channel Move Time and Non-Occupancy Period.

Block Diagram of test setup test procedure.

- (1) The Radar Pulse generator is setup to provide a pulse at frequency that the master and client are operating, A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- (2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -55.8dBm at the antenna of the master device.
- (3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- (4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using test software in order to properly load the network for the entire period of the test.
- (5) When radar burst with a Level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection threshold +1dB.
- (6) Observer the transmissions of the EUT at the end of the radar Burst on the Operating channel. Measure and record the transmissions from the UUT during The observation time (channel move time). One 15 seconds plot is reported for the short pulse radar type 0. The plot for the short pulse radar burst. The channel move time will be calculated based on the zoom in 600ms plot of the short pulse radar type.
- (7) Measurement of the aggregate duration of the channel closing transmission time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $D_{well} (3.0) = S(12000ms)/B(4000)$; where dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of channel closing transmission time is calculated by: $C(ms) = N \times D_{well} (0.3ms)$; where C is the closing time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and dwell is the dwell time per bin.
- (8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Test Setup:

Setup for client with injection at the master.

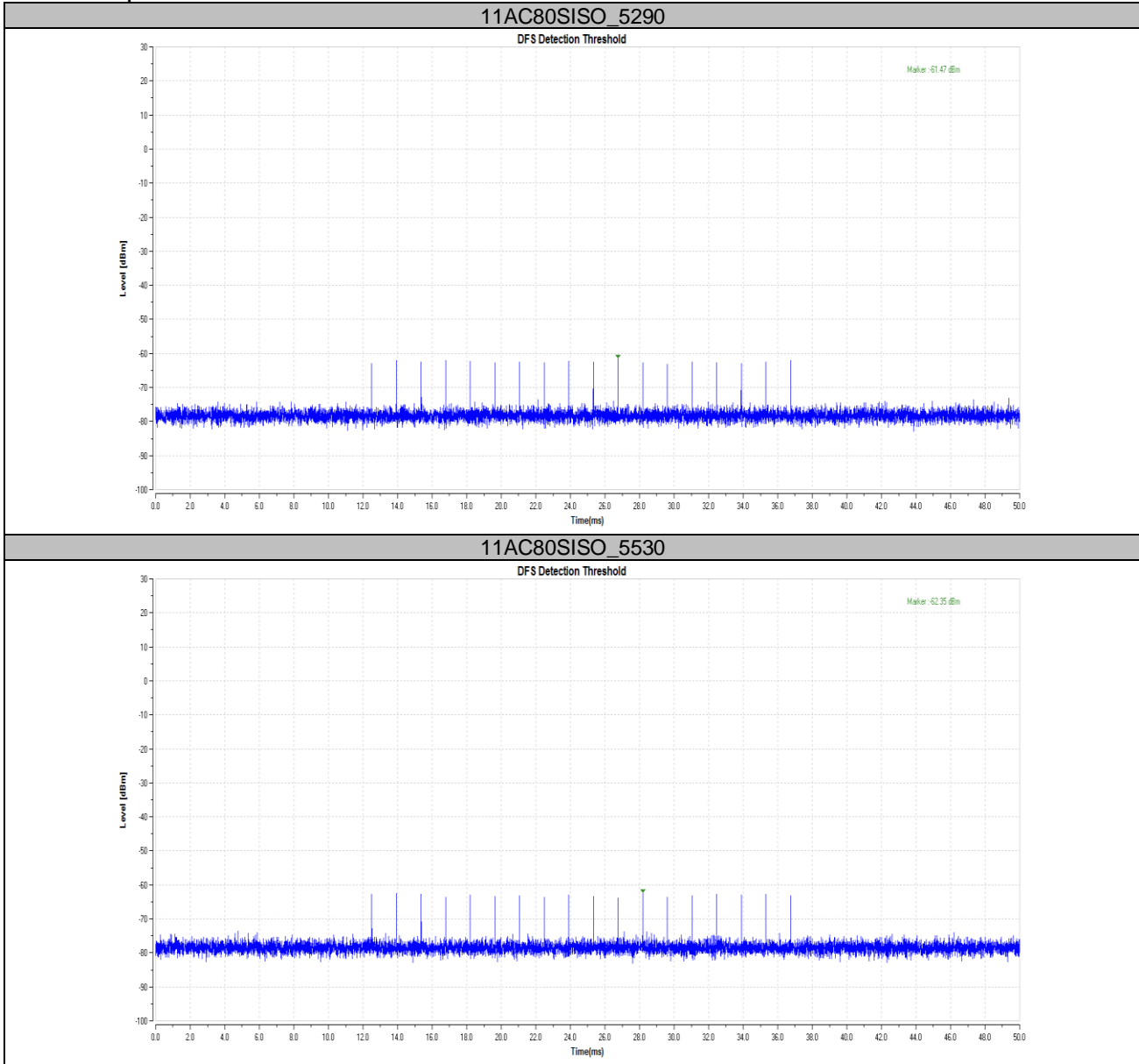


6、 Test Result

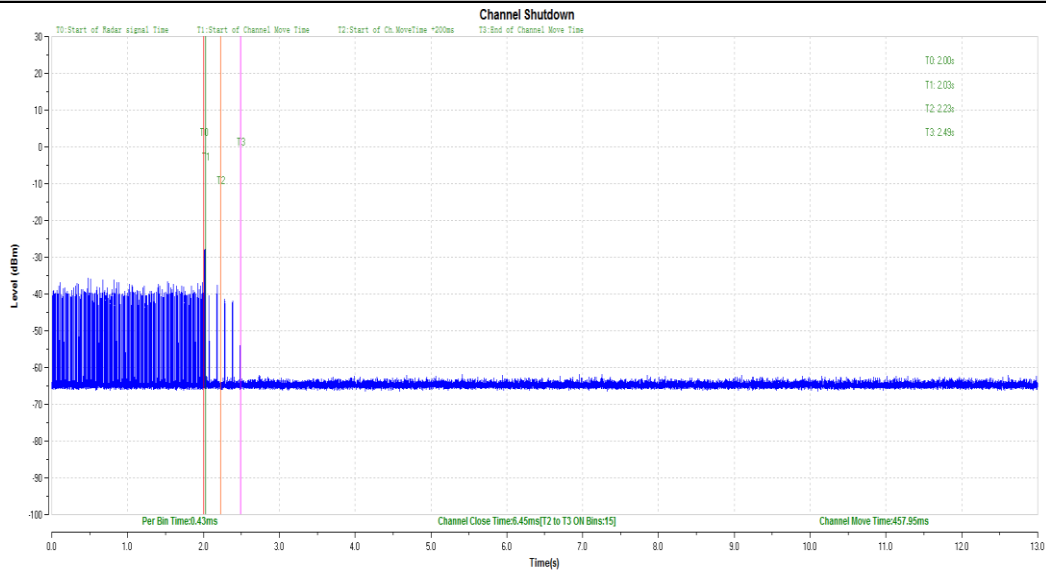
Clause	Test Parameter	Remarks	Pass/Fail
15.407	DFS Detection Threshold	No Applicable	N/A
15.407	Channel Availability Check time	No Applicable	N/A
15.407	Channel Move time	Applicable	Pass
15.407	Channel Closing Transmission Time	Applicable	Pass
15.407	Non-Occupancy Period	Applicable	Pass
15.407	Uniform Spreading	No Applicable	N/A
15.407	U-NII Detection Bandwidth	No Applicable	N/A

TestMode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC80SISO	5290	6.45	60	457.95	10000	PASS
	5530	4.3	60	428.71	10000	PASS

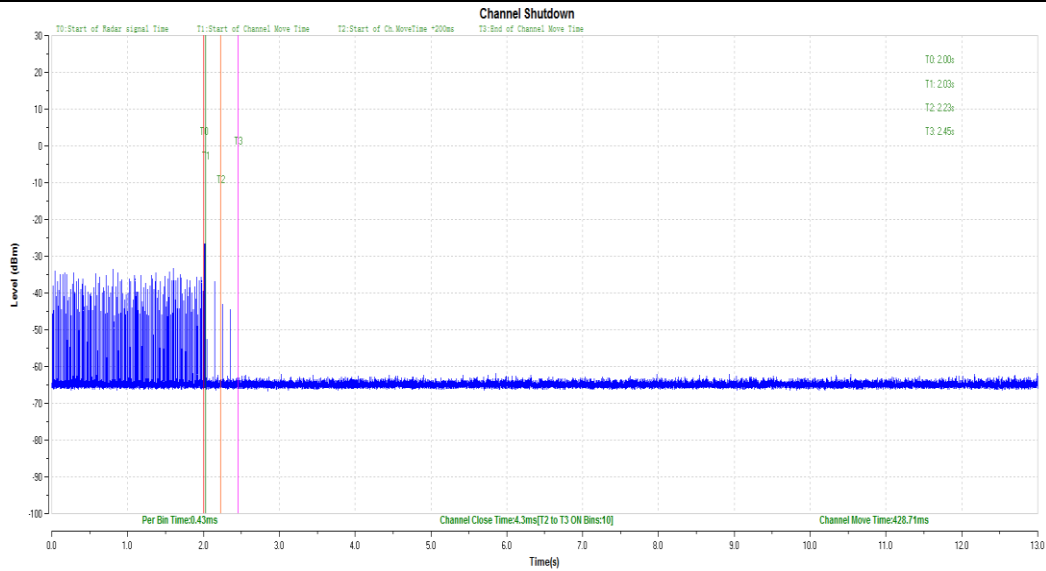
Test Graphs



11AC80SISO_5290



11AC80SISO_5530



10 Test Equipment List

Conducted Emission Test

Description	Manufacturer	Model no.	Serial no.	cal. due date
EMI Test Receiver	Rohde & Schwarz	ESR 3	101782	2020-6-28
LISN	Rohde & Schwarz	ENV4200	100249	2020-6-28
Attenuator	Shanghai Huaxiang	TS2-26-3	080928189	2020-6-28
Test software	Rohde & Schwarz	EMC32	Version9.15.00	N/A

Radiated Emission Test

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
Signal Analyzer	Rohde & Schwarz	FSV40	101031	2020-6-28
High Pass Filter (HPF)	UCL	UCL-BPF1-7G	1504005103	2020-6-28
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	707	2020-6-29
Horn Antenna	Rohde & Schwarz	HF907	102295	2020-6-22
Wideband Horn Antenna	Q-PAR	QWH-SL-18-40-K-SG	12827	2020-7-12
Pre-amplifier	Rohde & Schwarz	SCU 18	102230	2020-6-28
Pre-amplifier	Rohde & Schwarz	SCU 40A	100432	2020-7-16
Attenuator	Agilent	8491A	MY39264334	2020-6-28
3m Semi-anechoic chamber	TDK	9X6X6	----	2020-7-7
Test software	Rohde & Schwarz	EMC32	Version 9.15.00	N/A

RF conducted test

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
Signal Analyzer	Rohde & Schwarz	FSV40	101030	2020-6-28
RF Switch Module	Rohde & Schwarz	OSP120/OSP-B157	101226/100851	2020-6-28
Power Splitter	Weinschel	1580	SC319	2020-7-7
Vector Signal Generator	Rohde & Schwarz	SMBV100A	262825	2020-6-28
RF Switch Module	Rohde & Schwarz	OSP120/OSP-B157	101226/100851	2020-7-6
Test software	Tonscend	System for BT/WIFI	Version 2.6	N/A

11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty for Conducted Emission 150kHz-30MHz (for test using AMN ENV432 or ENV4200)	3.62dB
Uncertainty for Radiated Spurious Emission 25MHz-3000MHz	Horizontal: 4.81dB; Vertical: 4.89dB;
Uncertainty for Radiated Spurious Emission 3000MHz-18000MHz	Horizontal: 4.69dB; Vertical: 4.68dB;
Uncertainty for Radiated Spurious Emission 18000MHz-40000MHz	Horizontal: 4.89dB; Vertical: 4.87dB;
Uncertainty for Conducted RF test with TS 8997	RF Power Conducted: 1.16dB Frequency test involved: 0.6×10^{-7} or 1%

THE END