

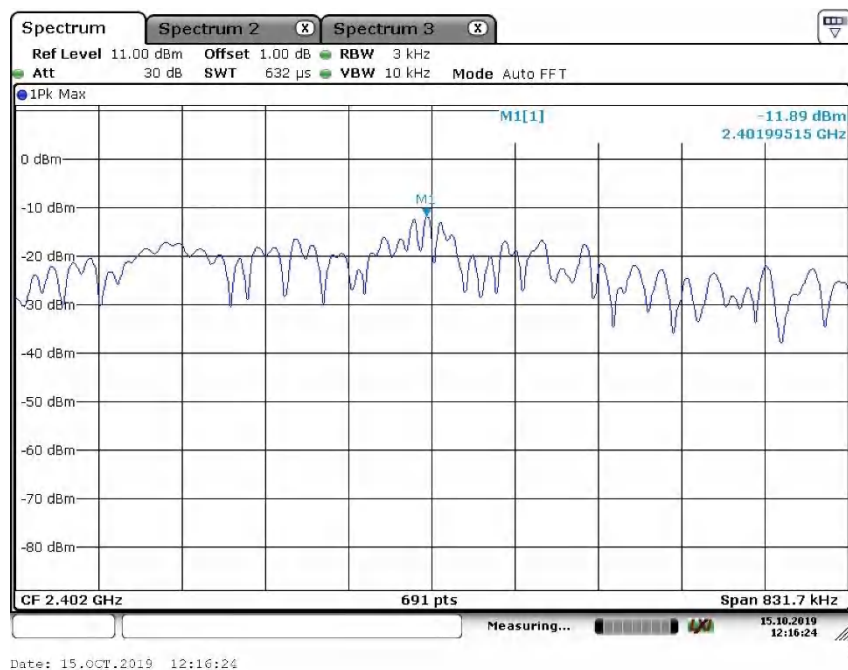
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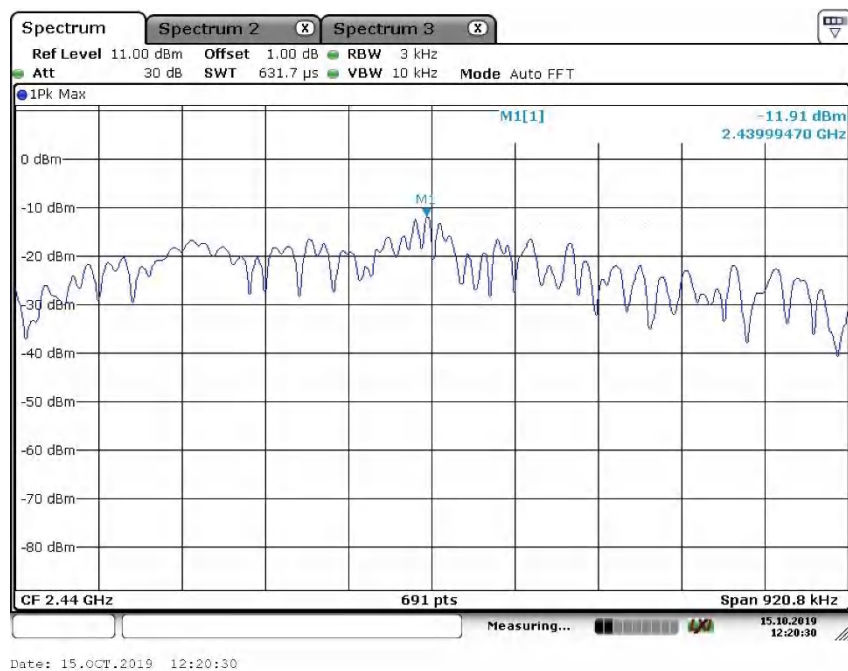
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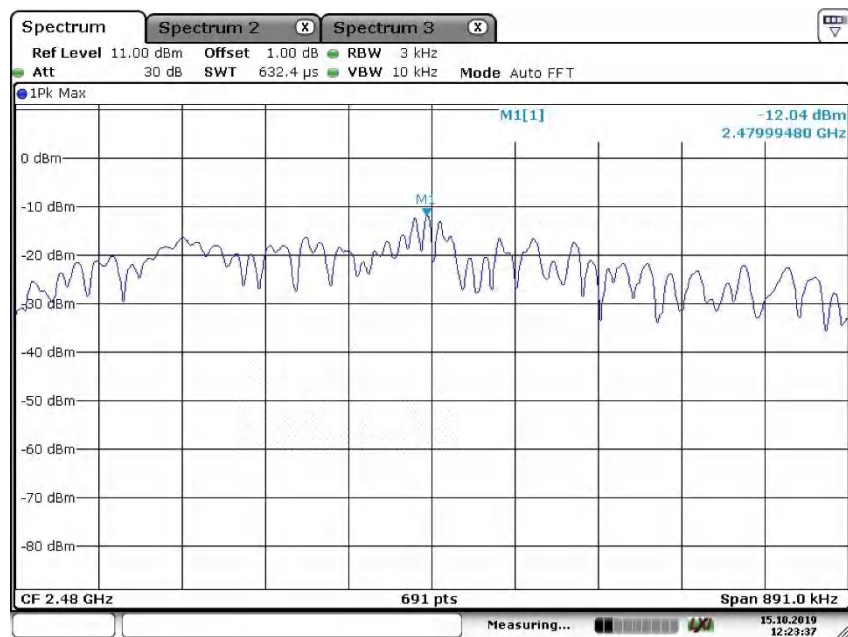
DTSS#1 (BLE) Low Channel



Middle Channel

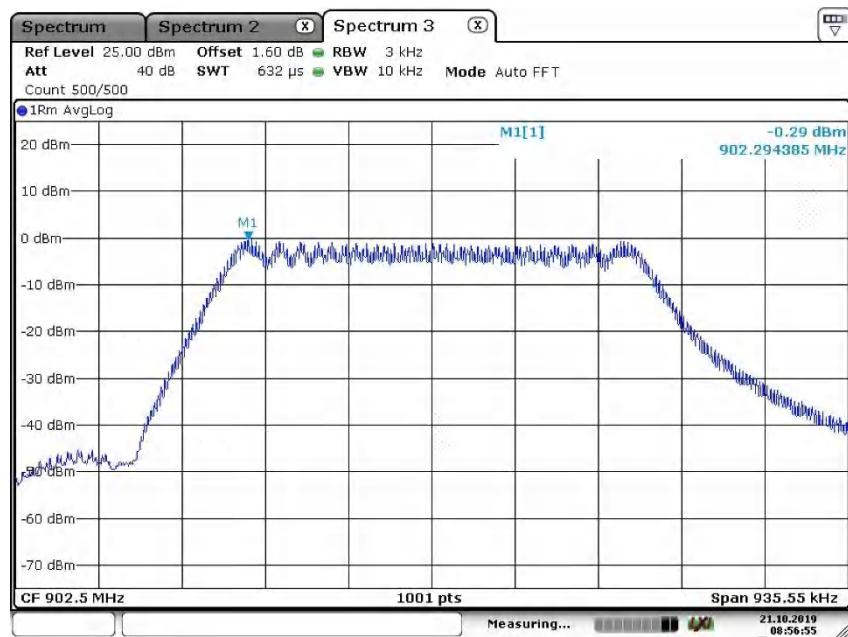


High Channel



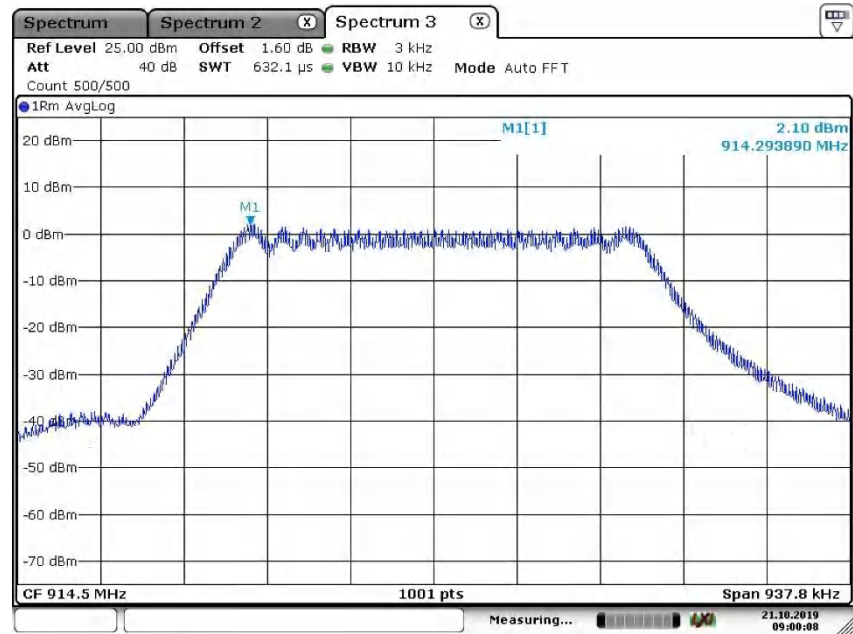
Date: 15.OCT.2019 12:23:38

DTSS#2 (Bandwidth: 500KHz) Low Channel

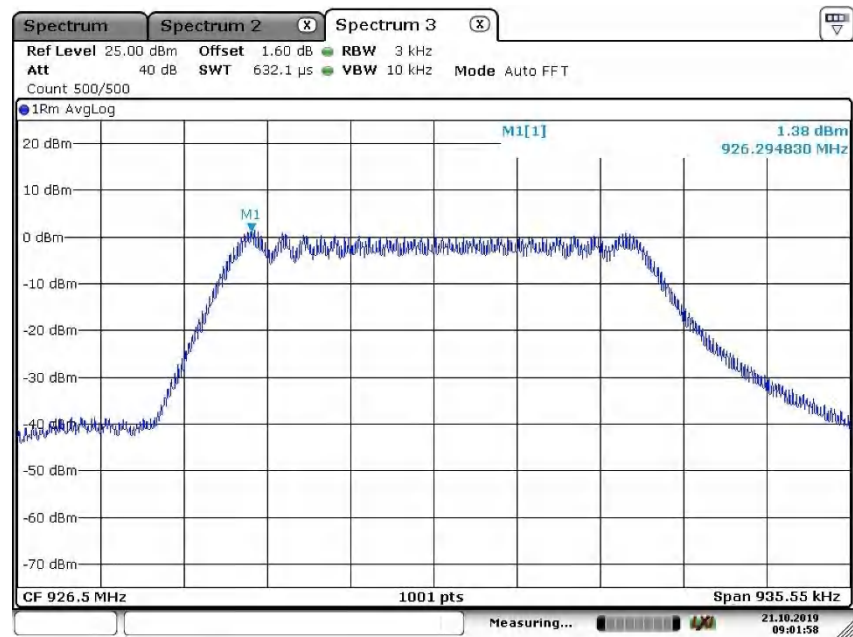


Date: 21.OCT.2019 08:56:56

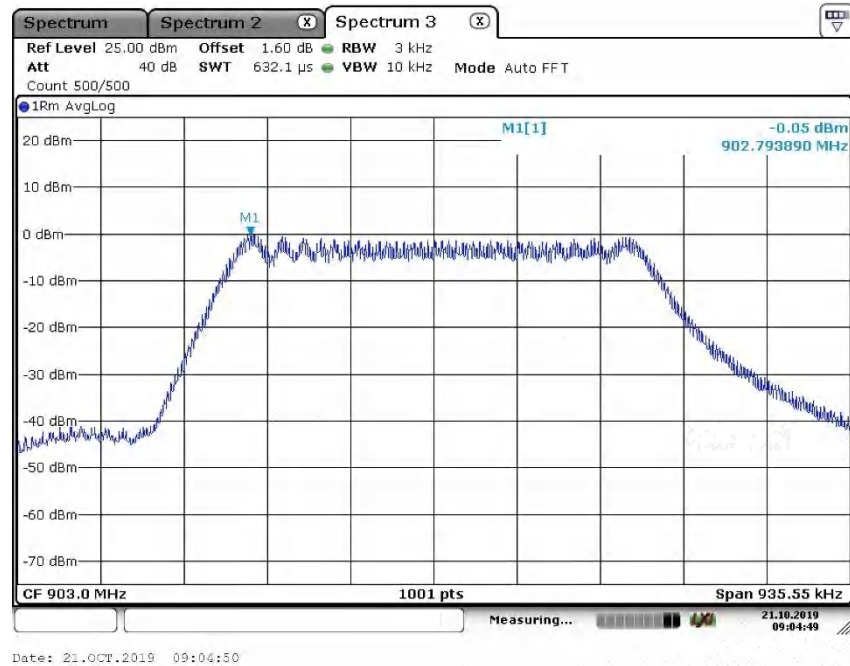
Middle Channel



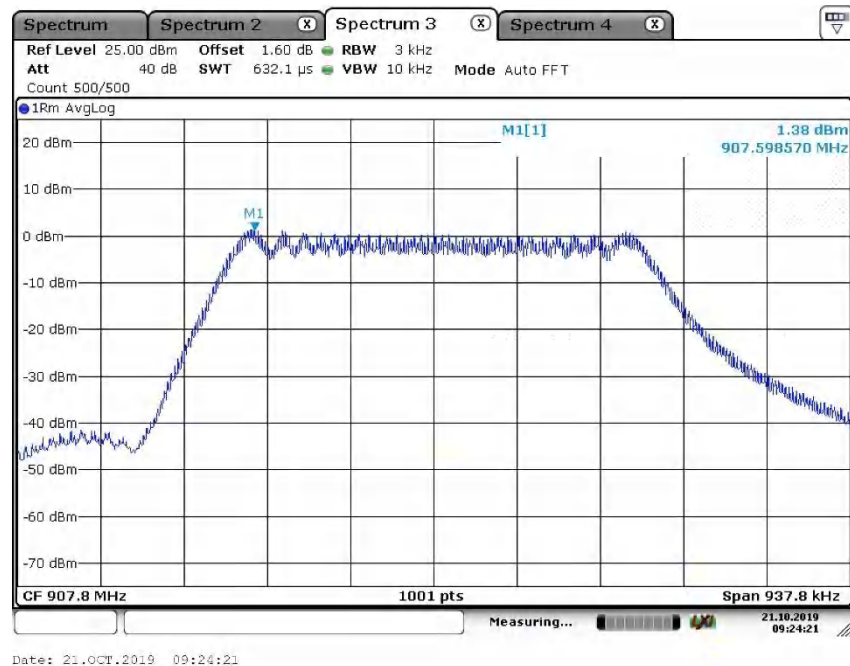
High Channel



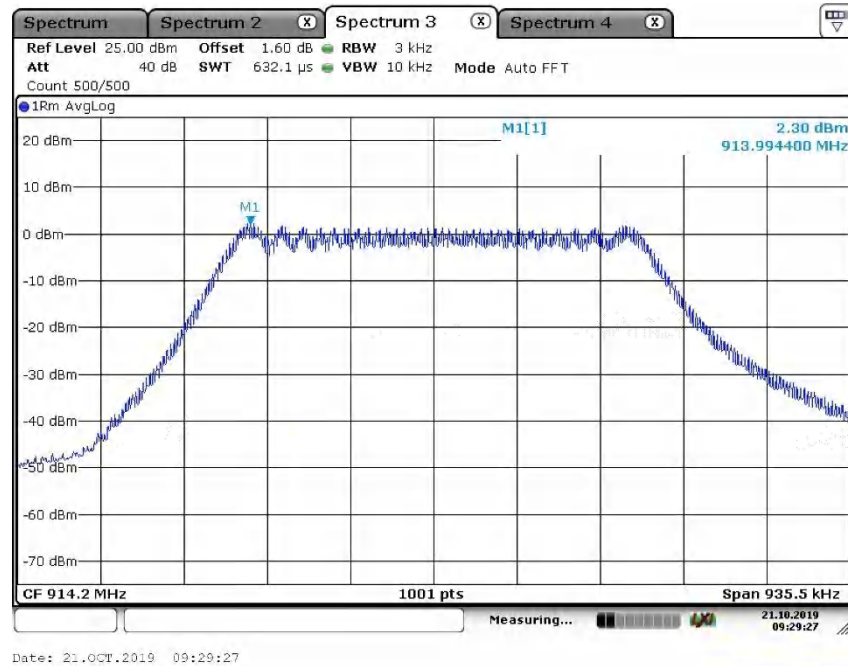
DTSS#3 (Bandwidth: 500KHz) Low Channel



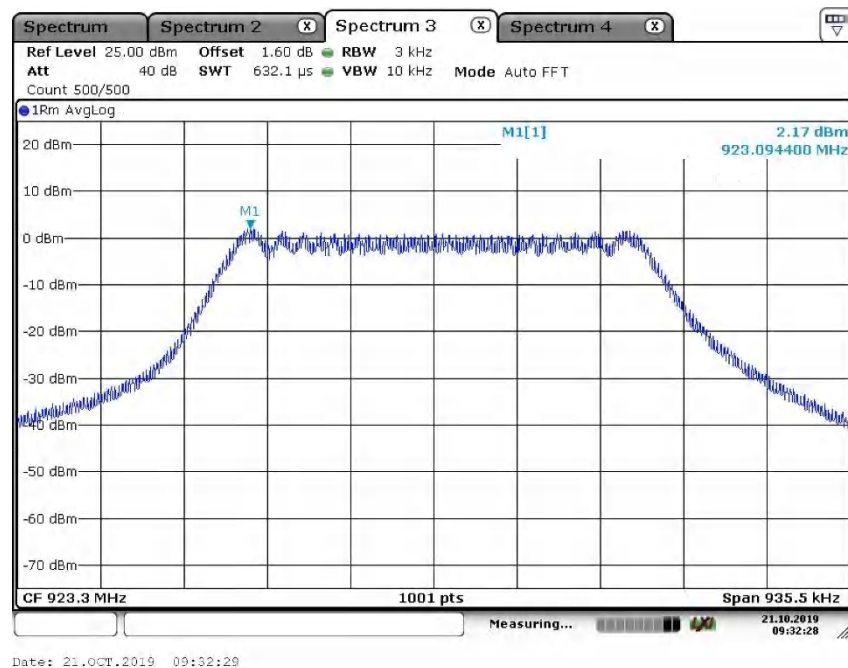
Middle Channel



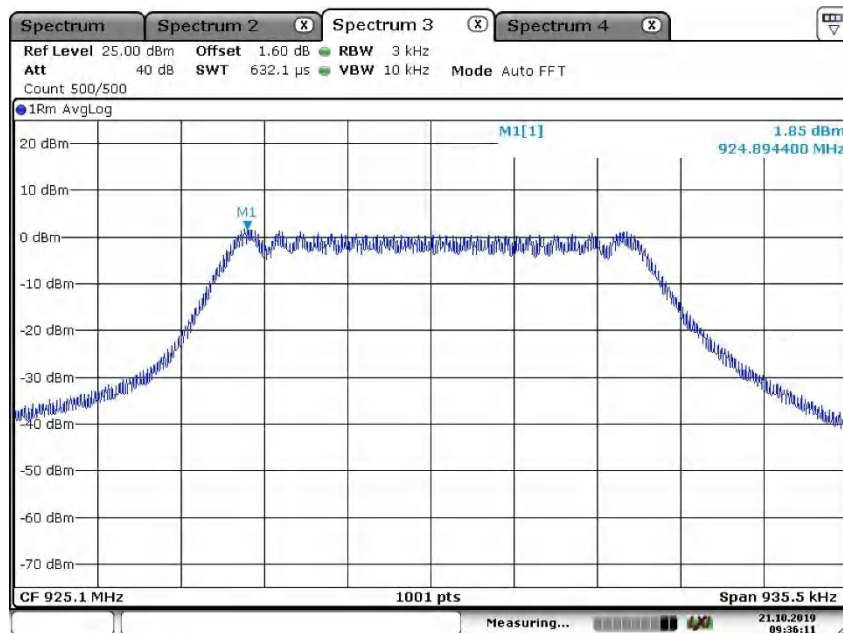
High Channel



DTSS#4 (Bandwidth: 500KHz) Low Channel

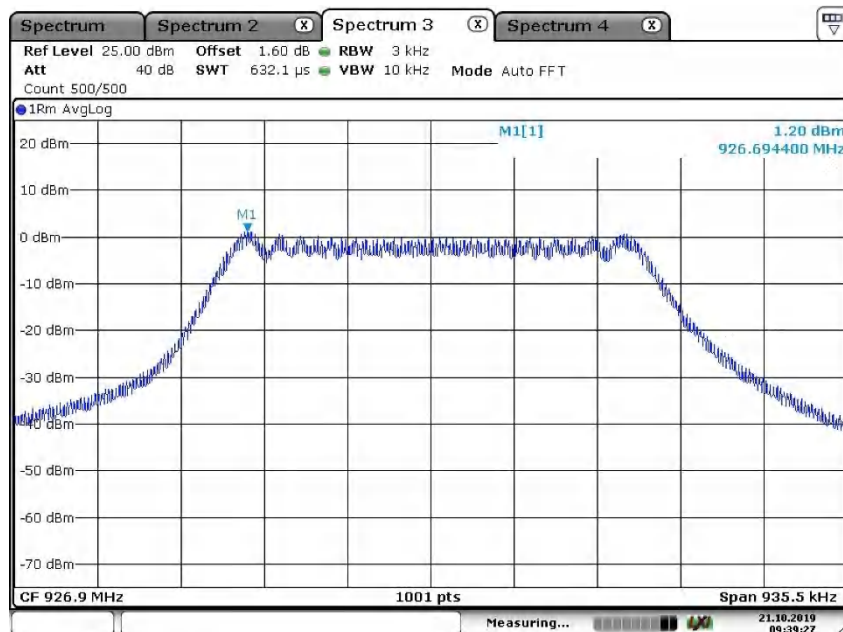


Middle Channel



Date: 21.OCT.2019 09:36:11

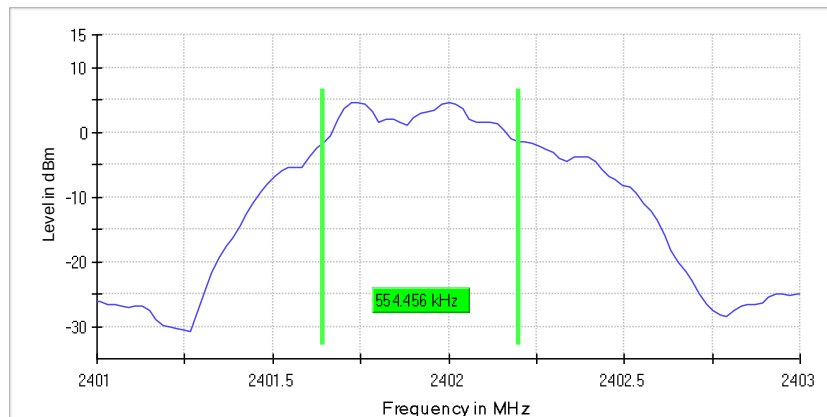
High Channel



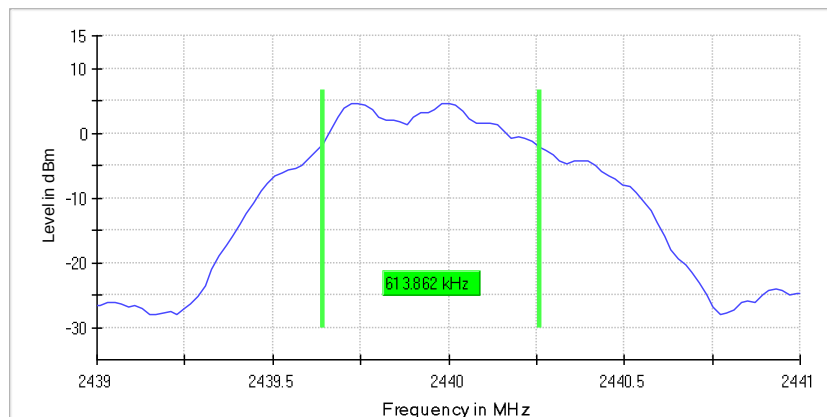
Date: 21.OCT.2019 09:39:28

Appendix B.2: Test Results of 6dB Bandwidth

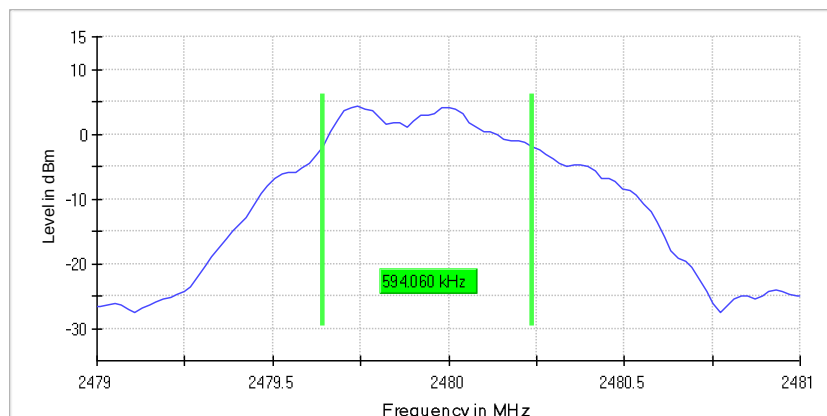
DTSS#1 (BLE) Low Channel



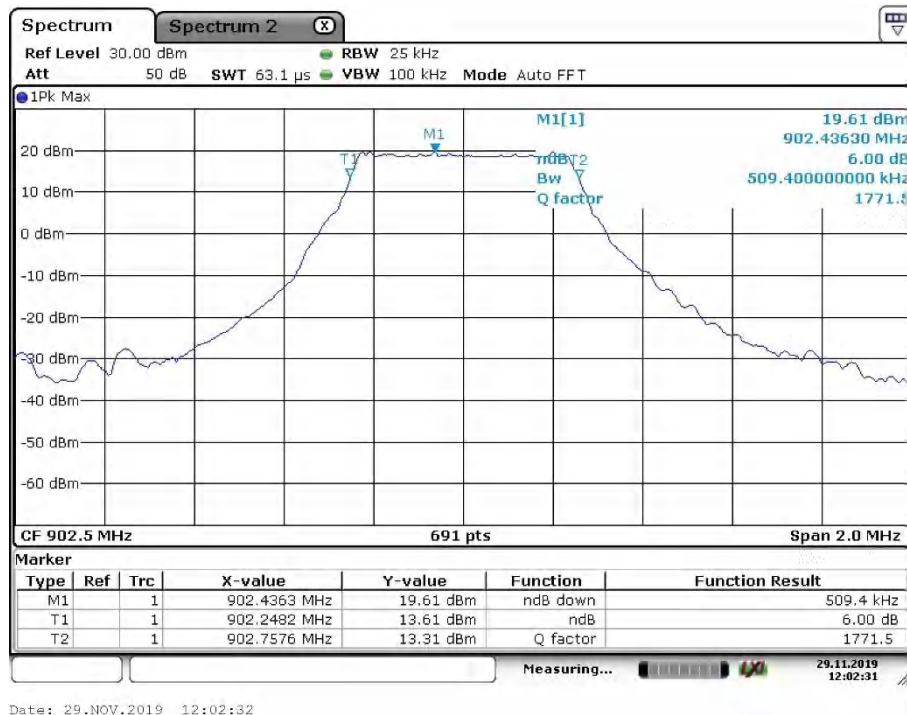
Middle Channel



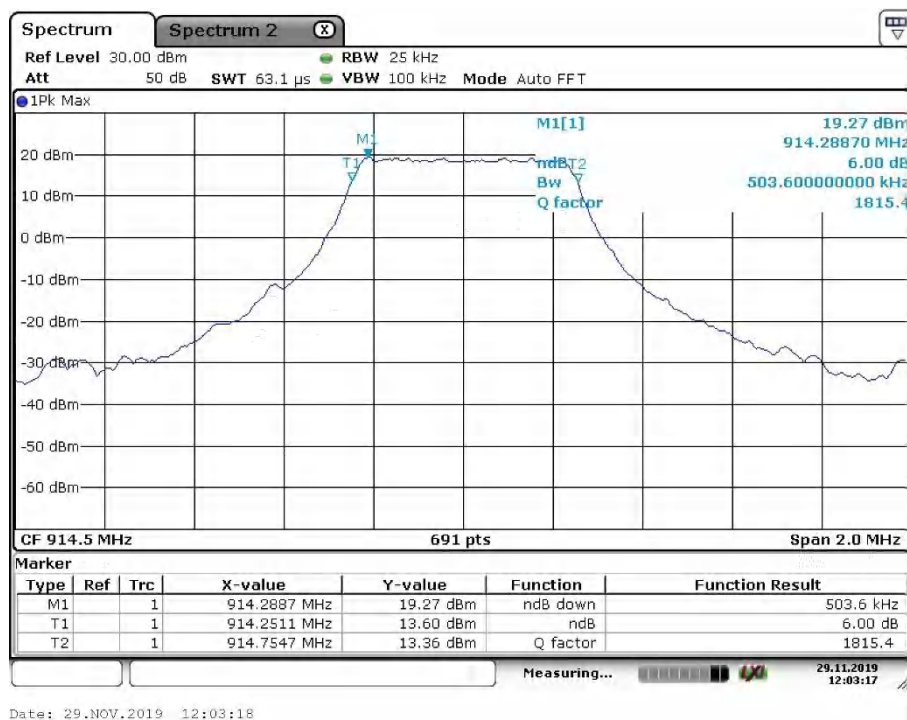
High Channel



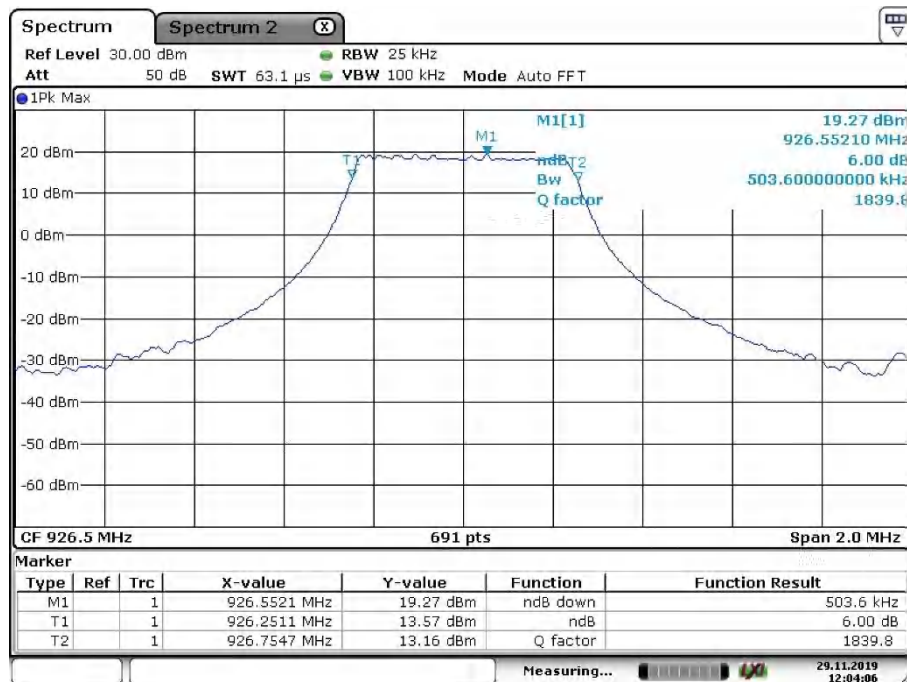
DTSS#2 (Bandwidth: 500KHz) Low Channel



Middle Channel



High Channel



Date: 29.NOV.2019 12:04:06

DTSS#3 (Bandwidth: 500KHz)

Low Channel



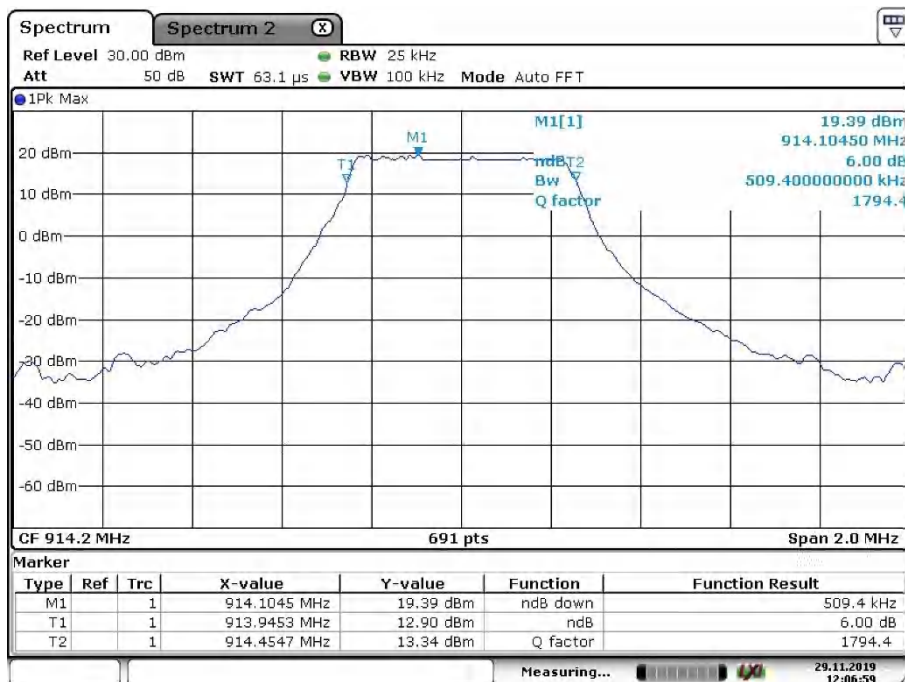
Date: 29.NOV.2019 12:04:57

Middle Channel



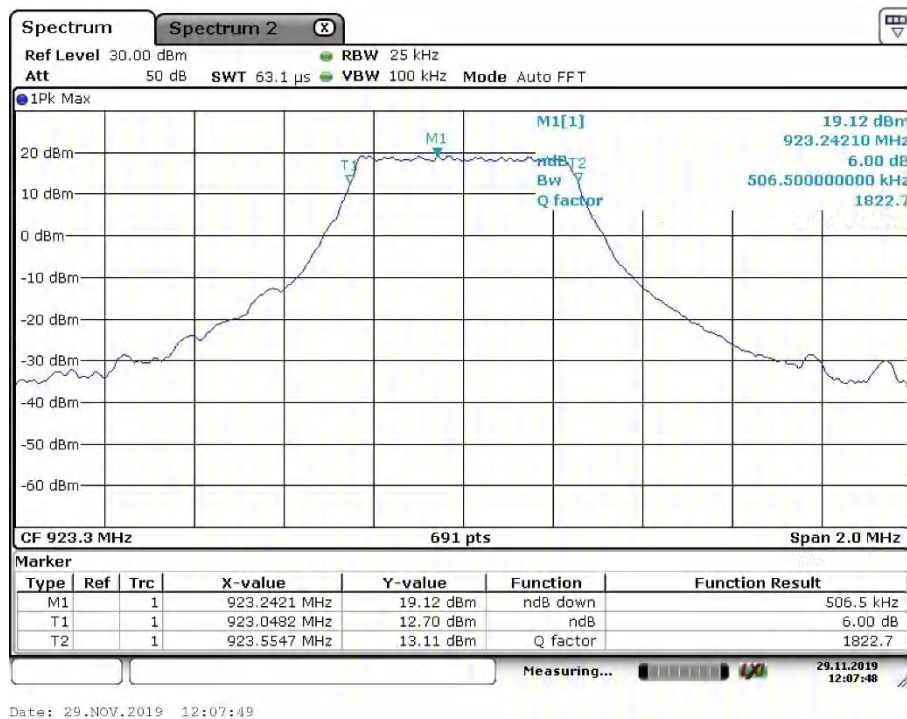
Date: 29.NOV.2019 12:06:15

High Channel

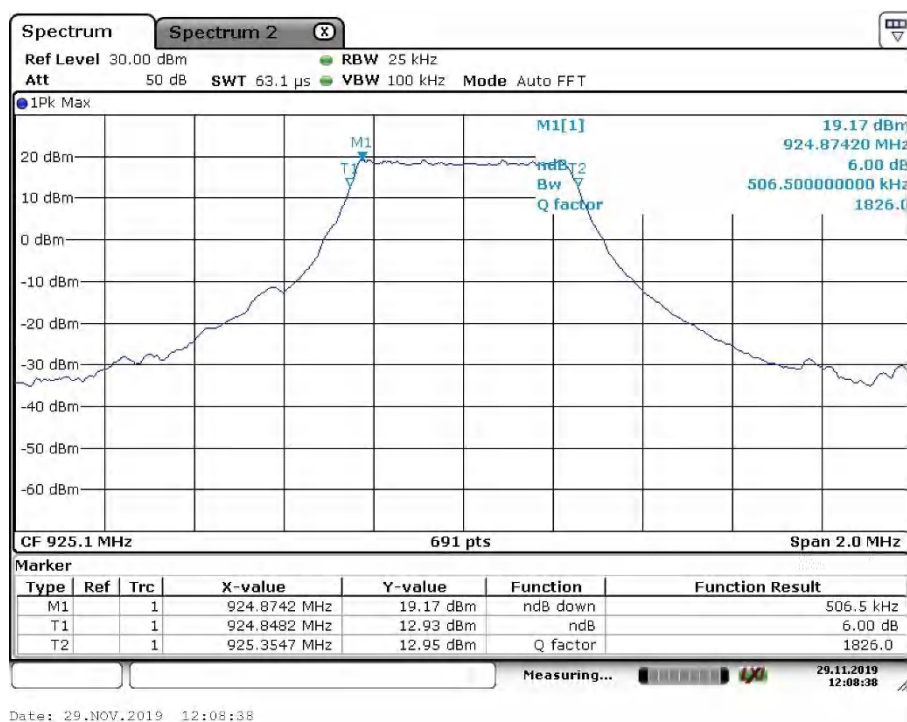


Date: 29.NOV.2019 12:06:59

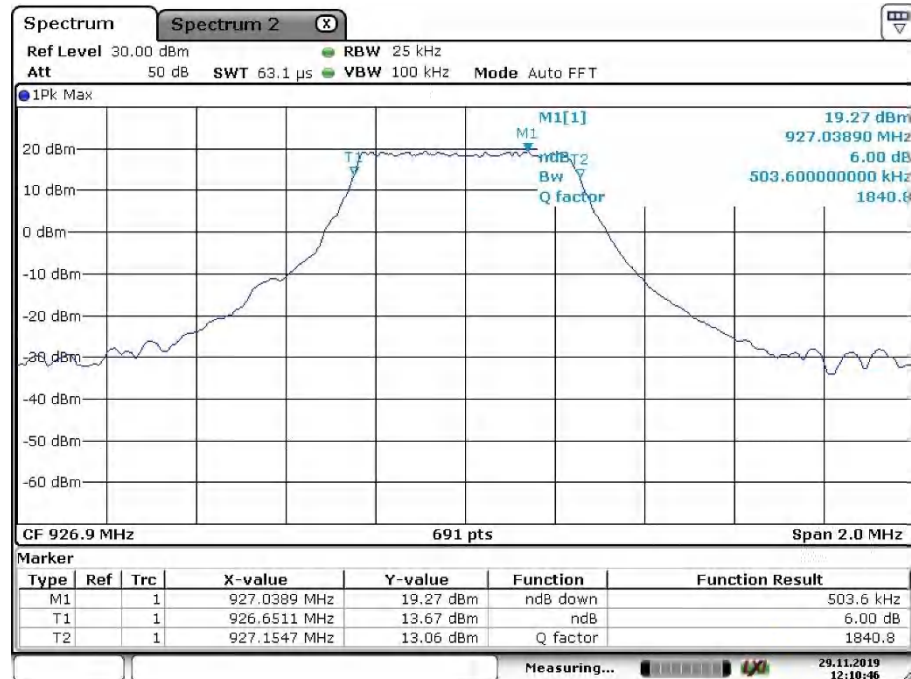
DTSS#4 (Bandwidth: 500KHz) Low Channel



Middle Channel



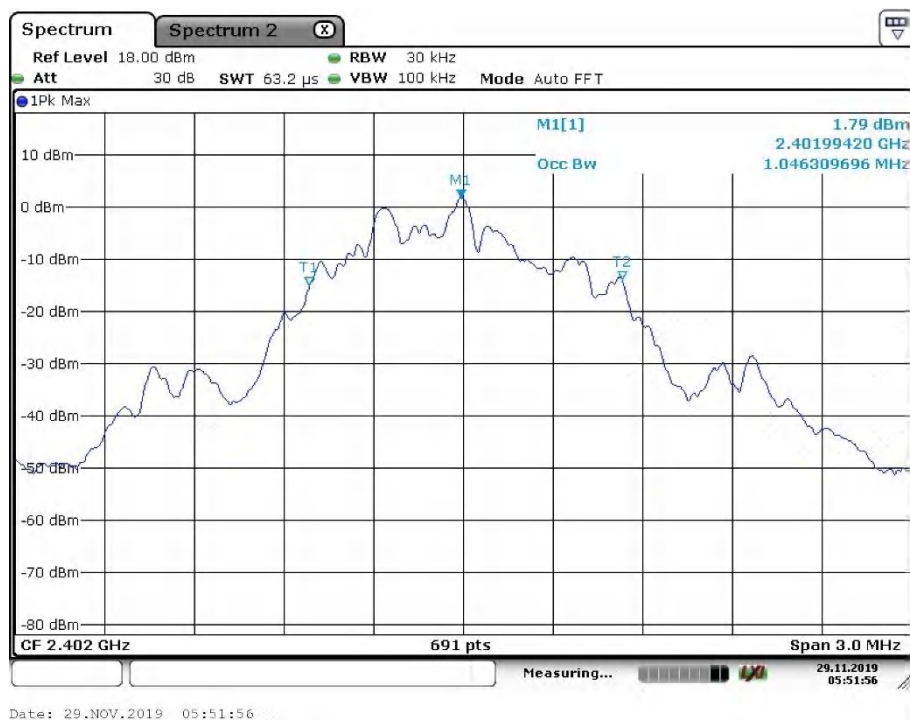
High Channel



Date: 29.NOV.2019 12:10:47

Appendix B.3: Test Results of 99% Bandwidth

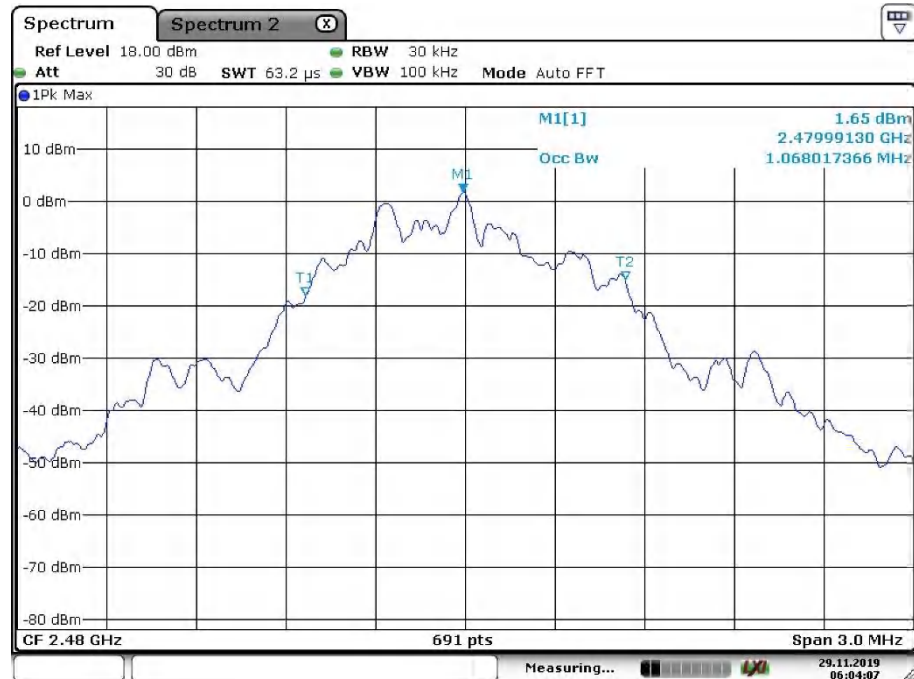
DTSS#1 (BLE) Low Channel



Middle Channel

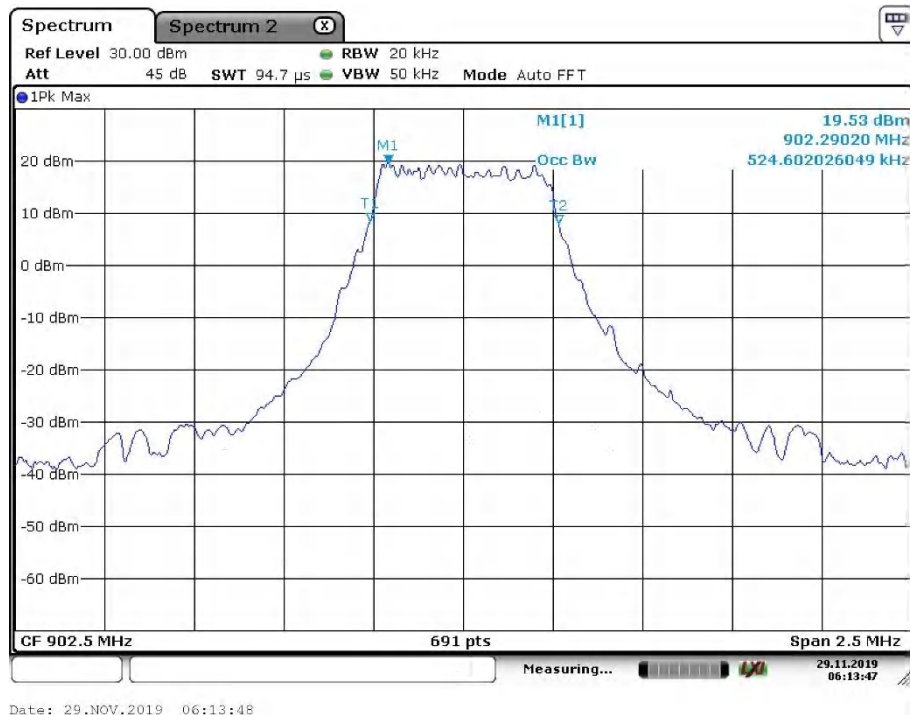


High Channel

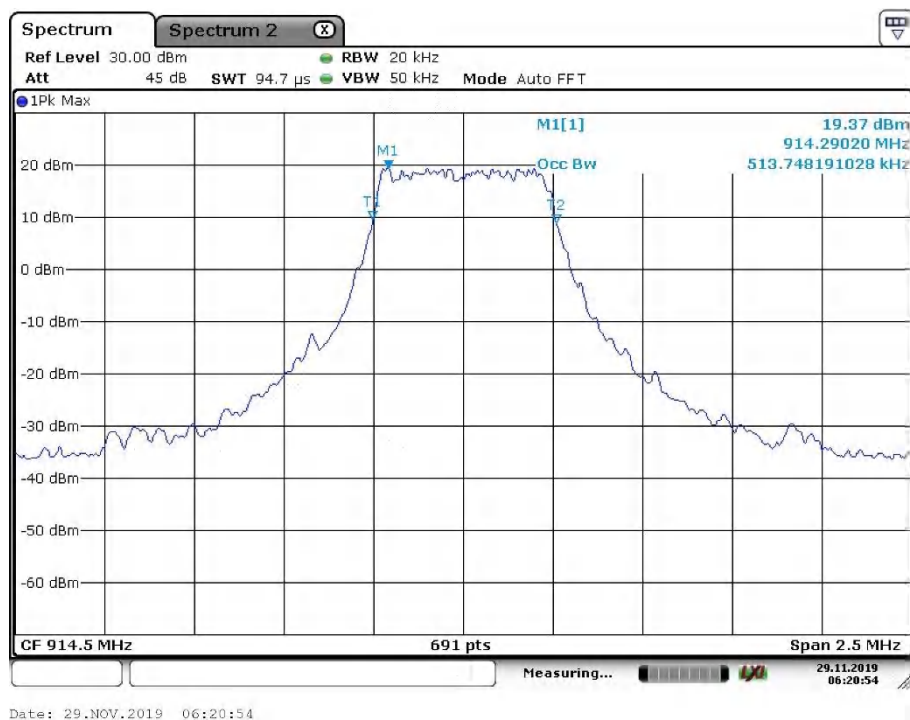


Date: 29.NOV.2019 06:04:08

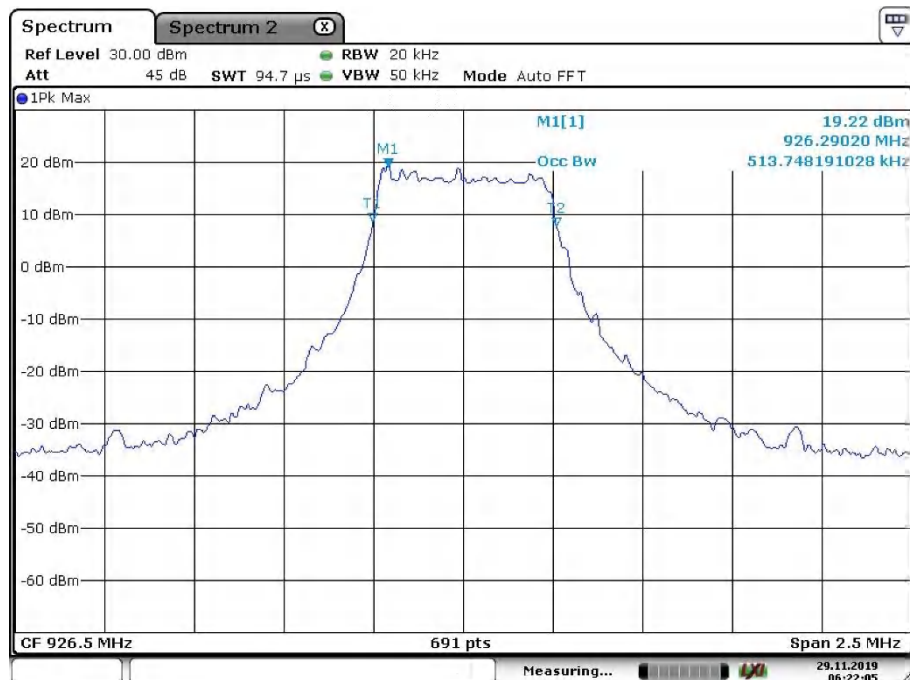
DTSS#2 (Bandwidth: 500KHz) Low Channel



Middle Channel



High Channel



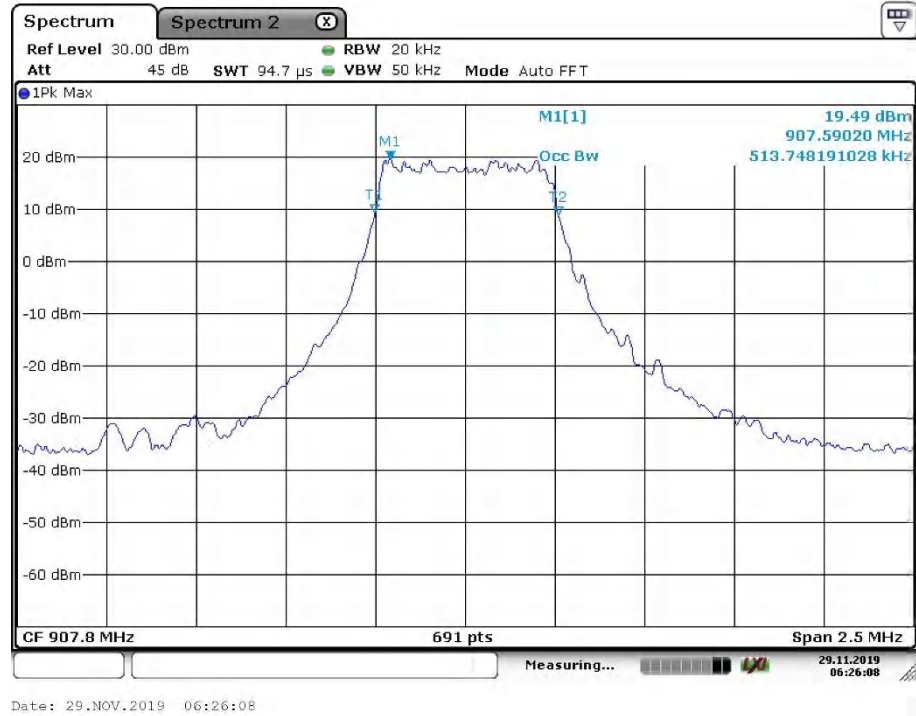
Date: 29.NOV.2019 06:22:06

DTSS#3 (Bandwidth: 500KHz) Low Channel

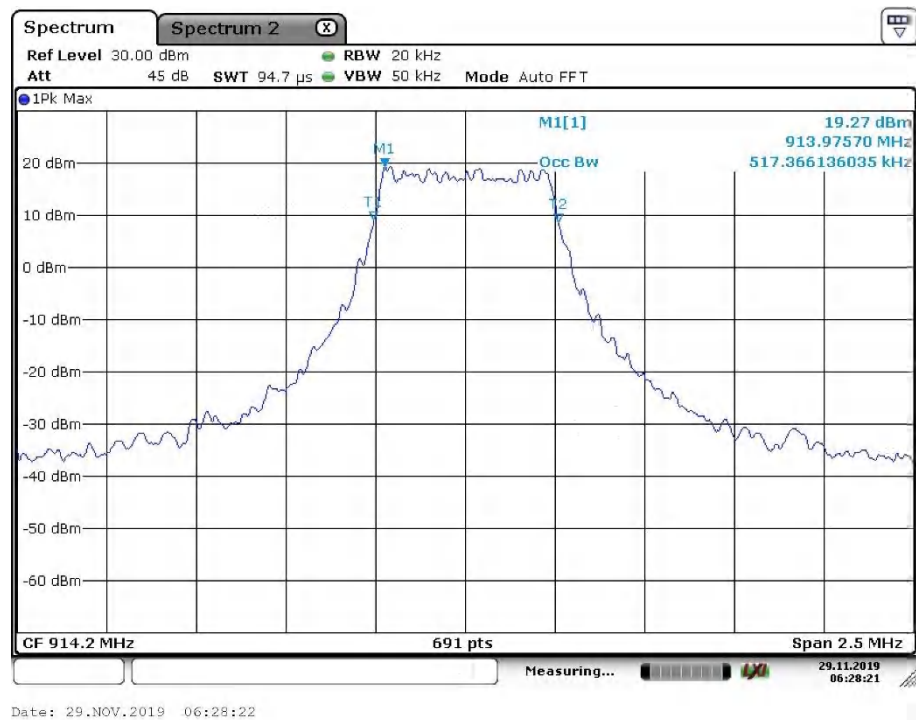


Date: 29.NOV.2019 06:24:54

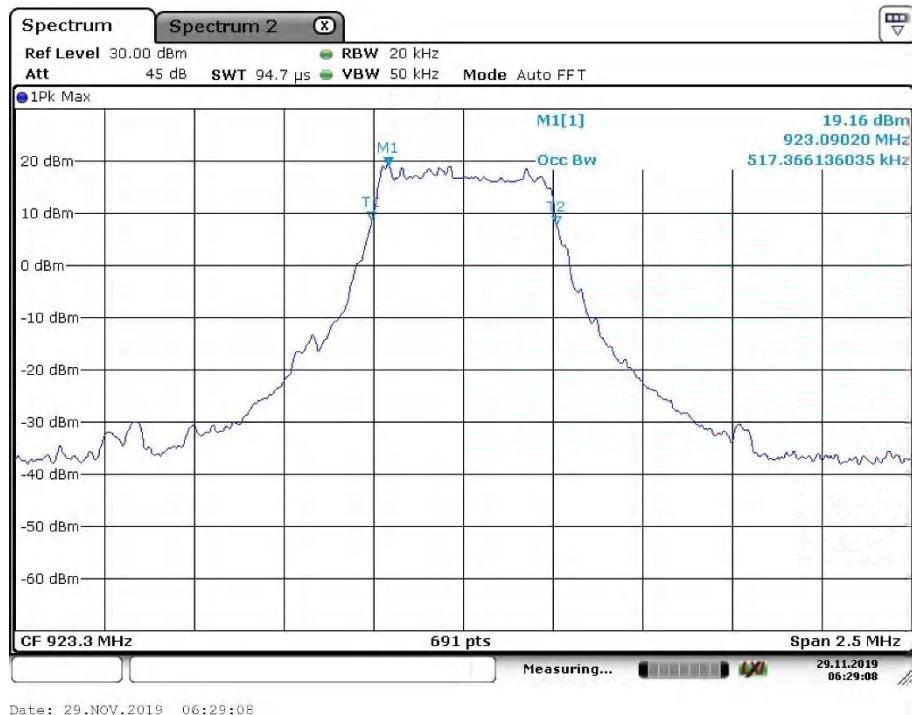
Middle Channel



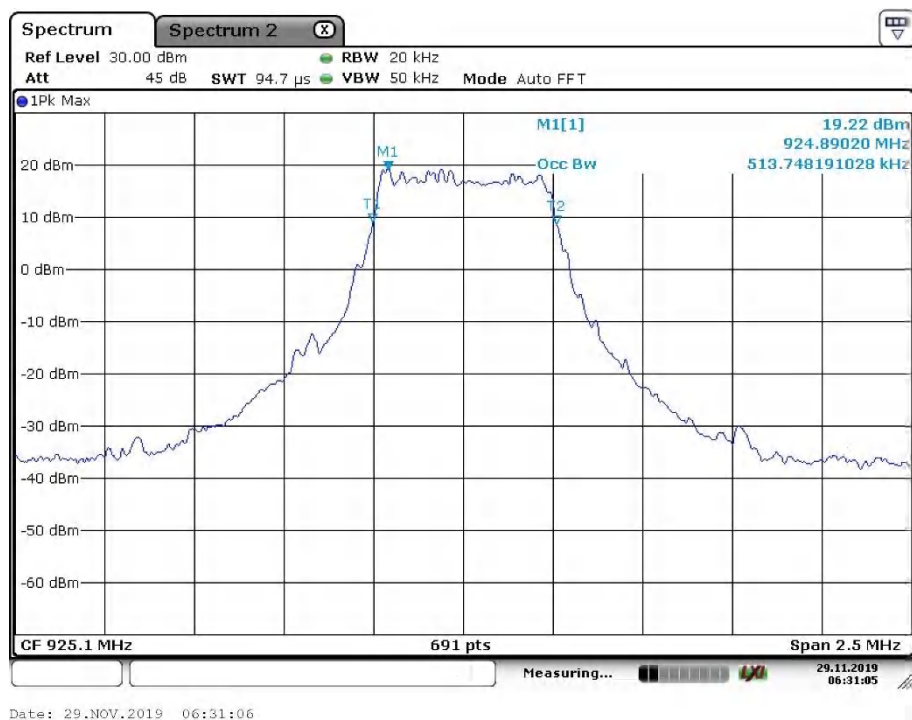
High Channel



DTSS#4 (Bandwidth: 500KHz)
Low Channel



Middle Channel



High Channel



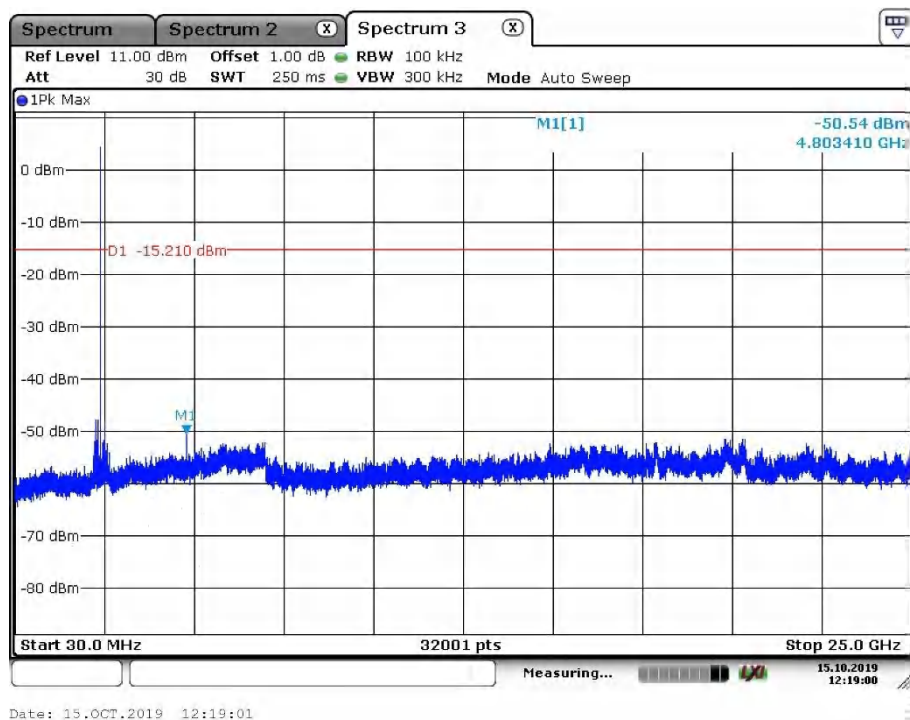
Date: 29.NOV.2019 06:32:00

Measuring...

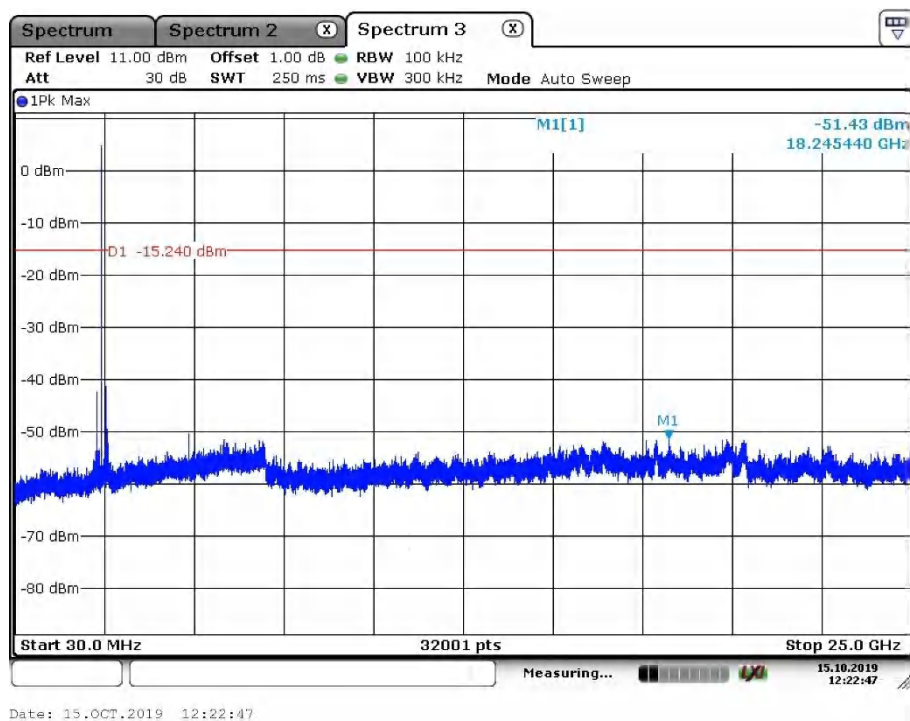
29.11.2019
06:32:00

Appendix B.4: Test Results of Conducted Spurious Emissions

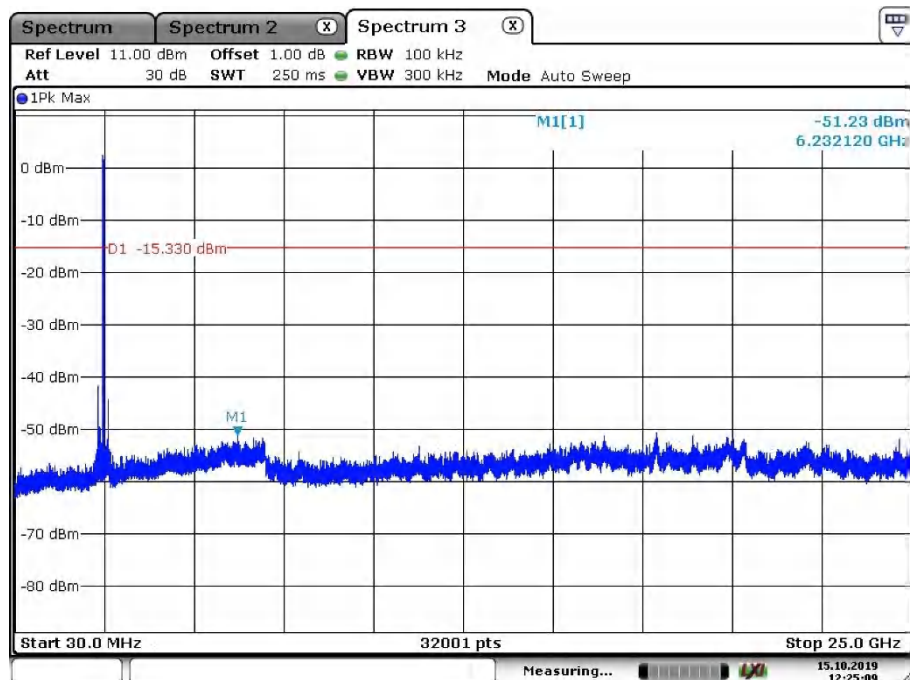
DTSS#1 (BLE) Low Channel



Middle Channel

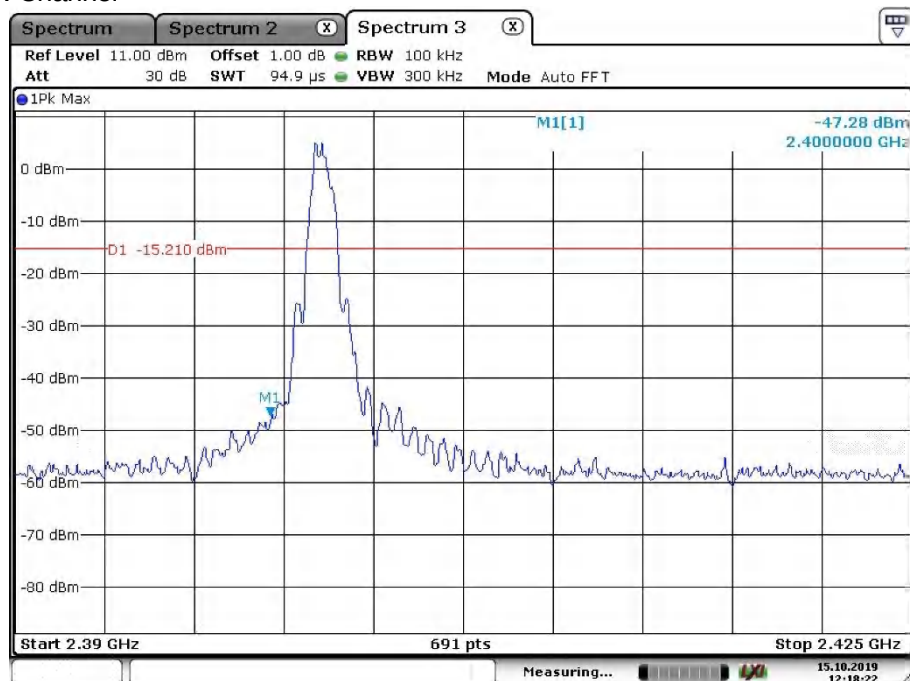


High Channel



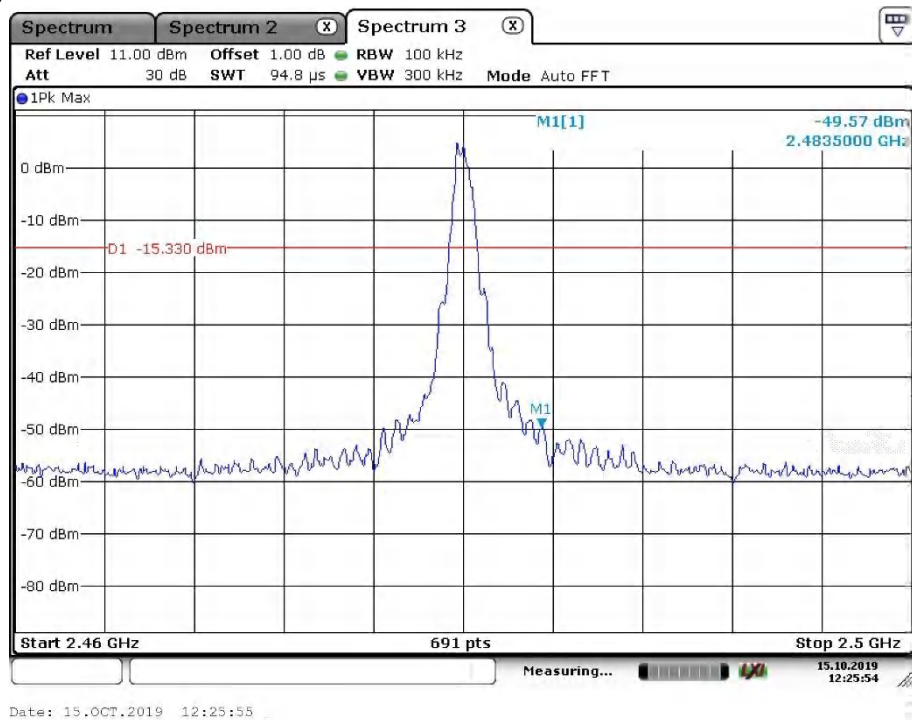
Date: 15.OCT.2019 12:25:10

Band Edge, Low Channel

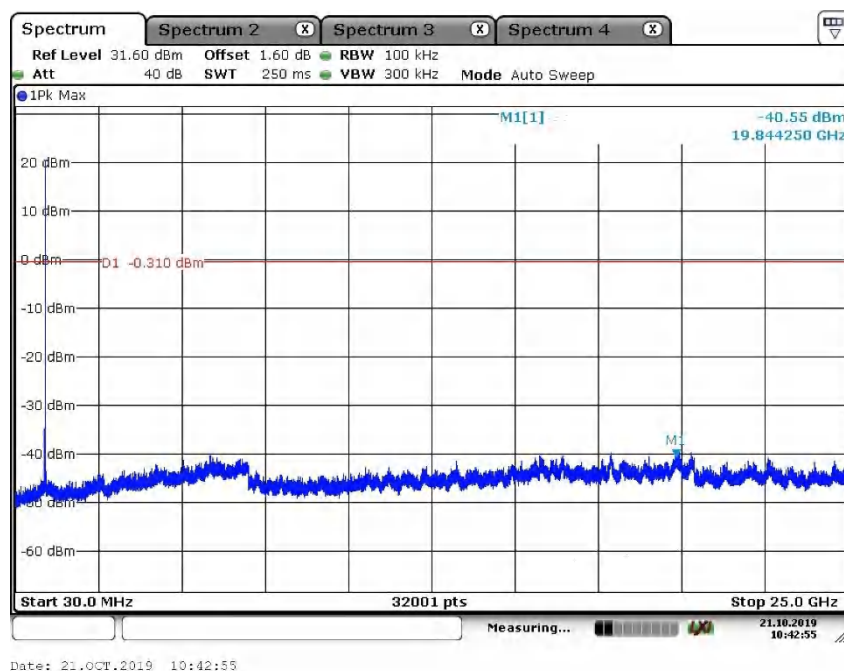


Date: 15.OCT.2019 12:18:23

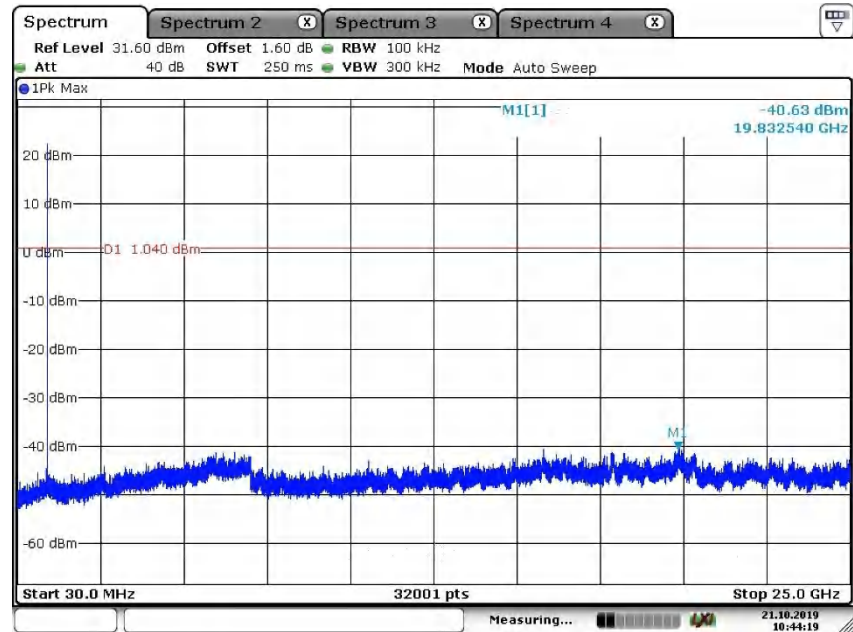
Band Edge, High Channel



DTSS#2 (Bandwidth: 500KHz) Low Channel

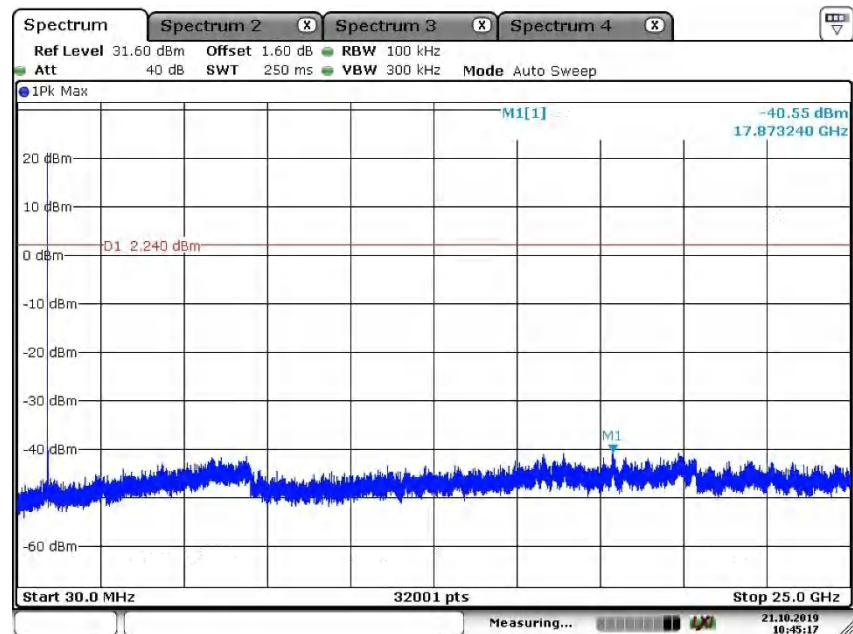


Middle Channel



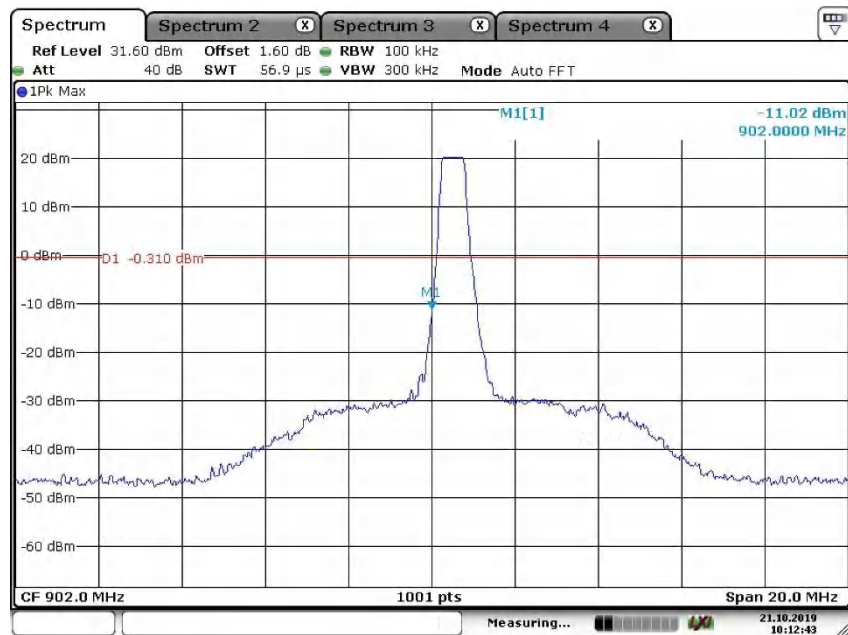
Date: 21.OCT.2019 10:44:19

High Channel



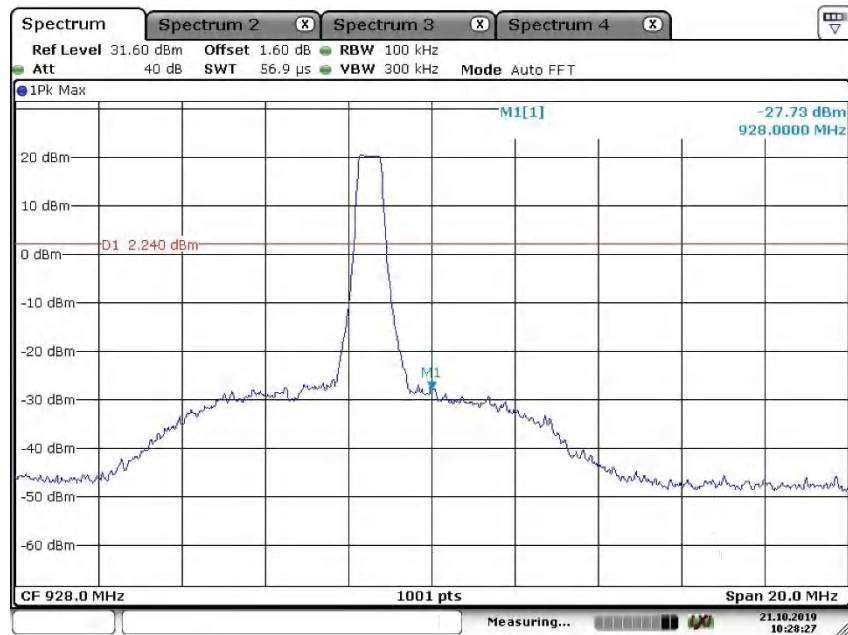
Date: 21.OCT.2019 10:45:18

Band Edge, Low Channel



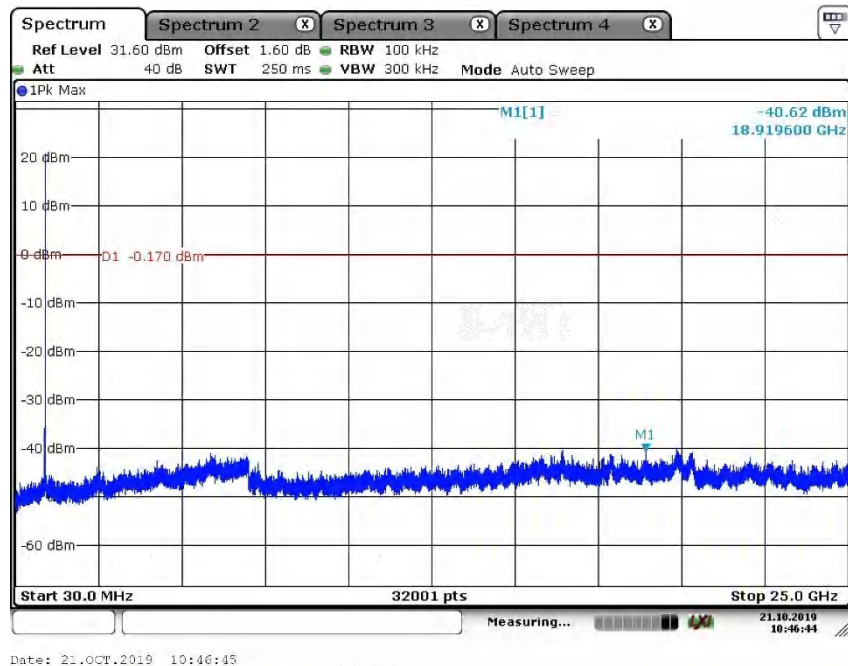
Date: 21.OCT.2019 10:12:44

Band Edge, High Channel

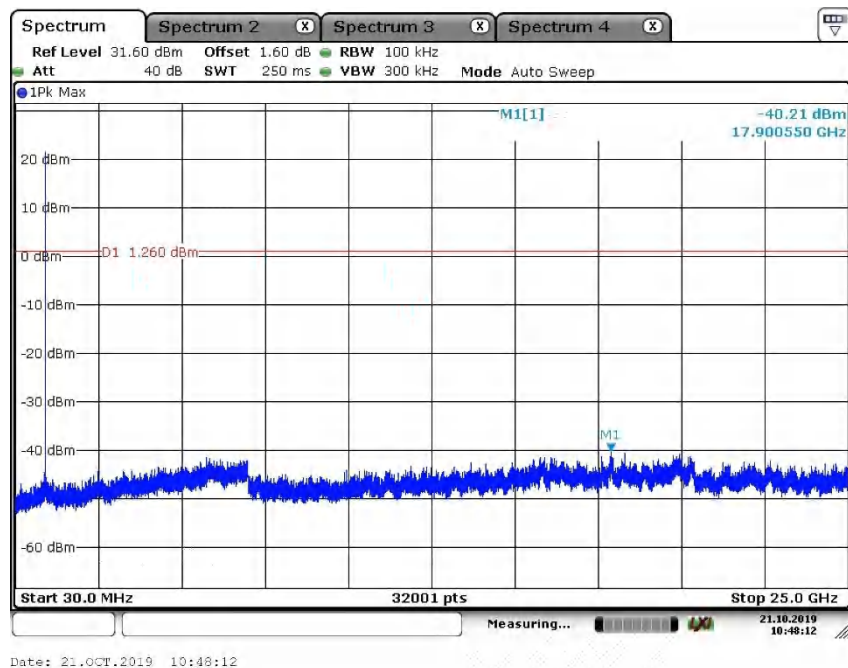


Date: 21.OCT.2019 10:20:28

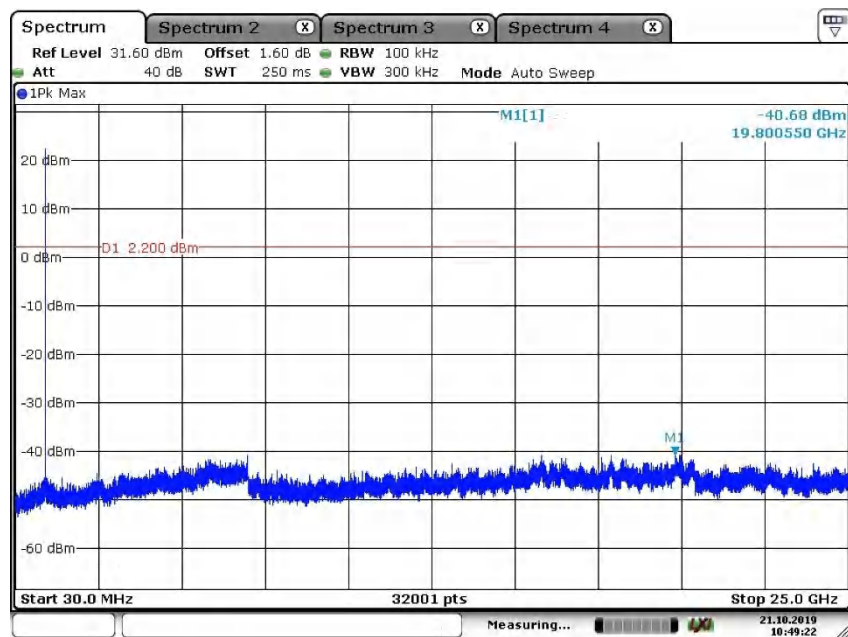
DTSS#3 (Bandwidth: 500KHz)
Low Channel



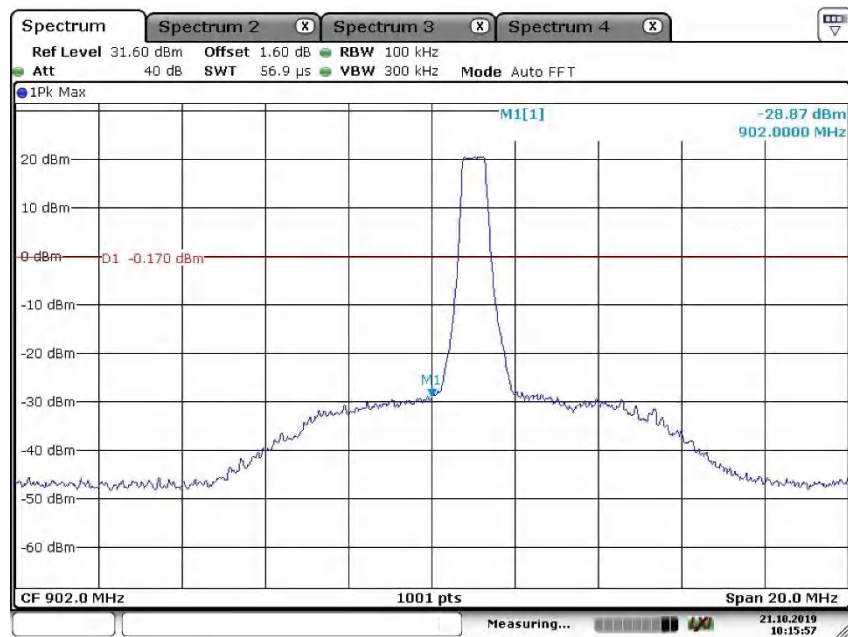
Middle Channel



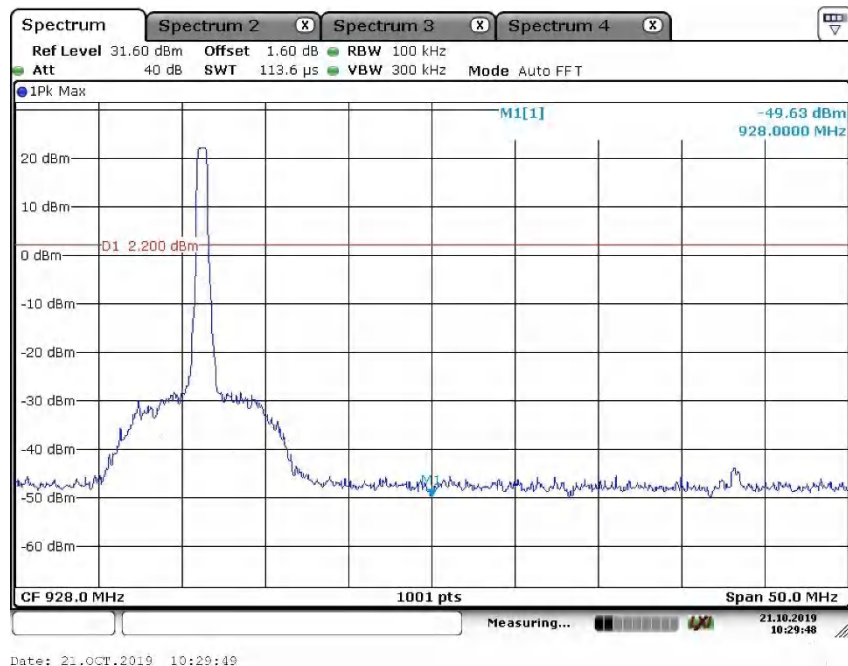
High Channel



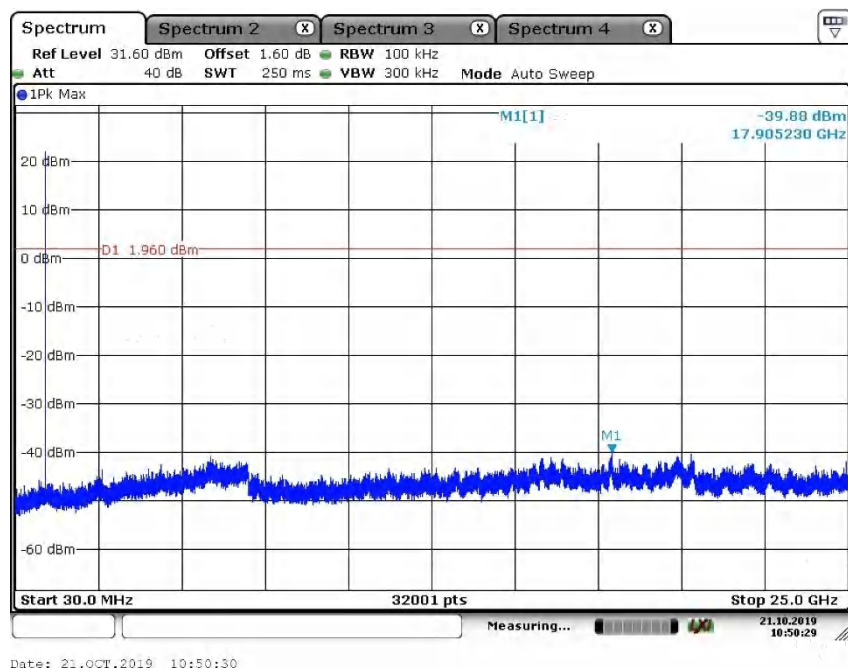
Band Edge, Low Channel



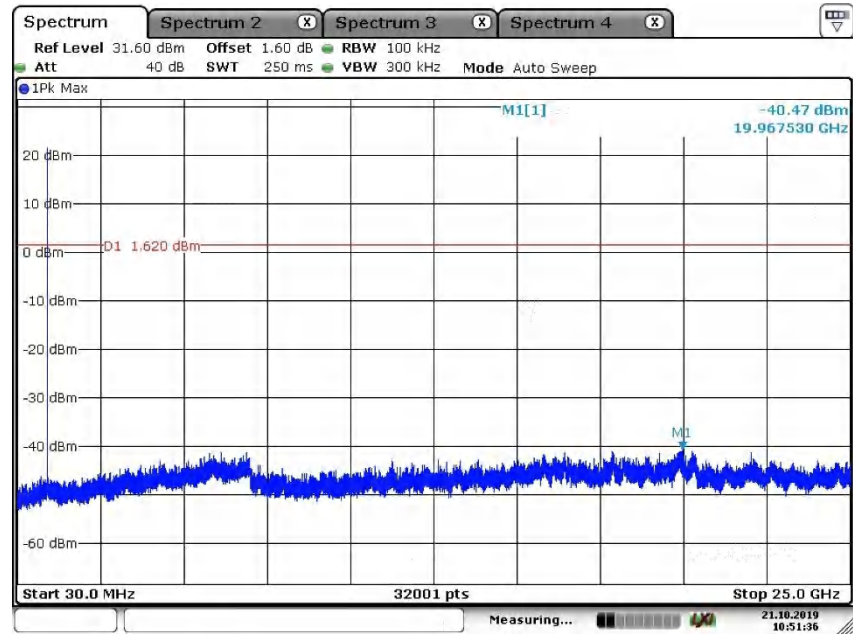
Band Edge, High Channel



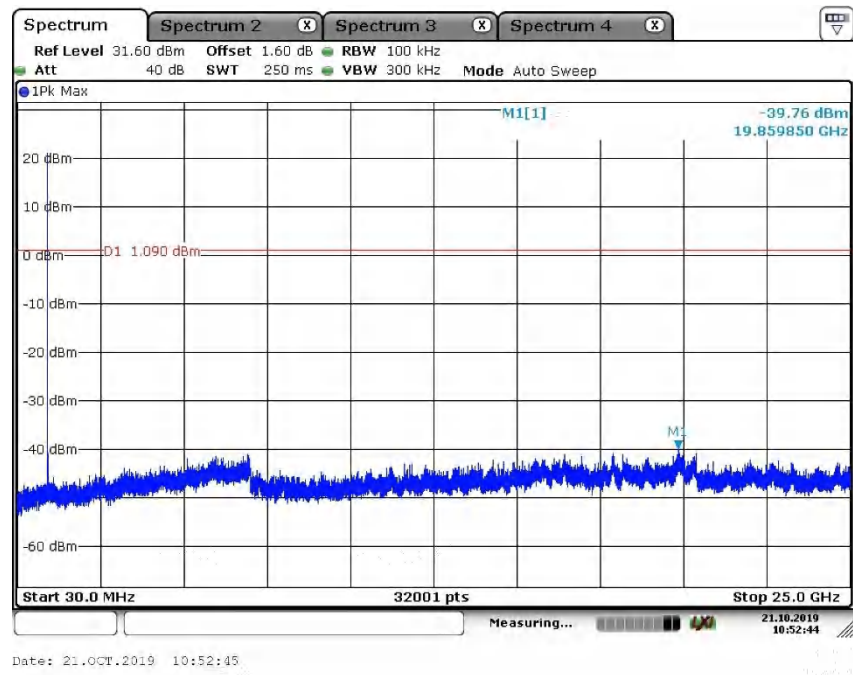
DTSS#4 (Bandwidth: 500KHz) Low Channel



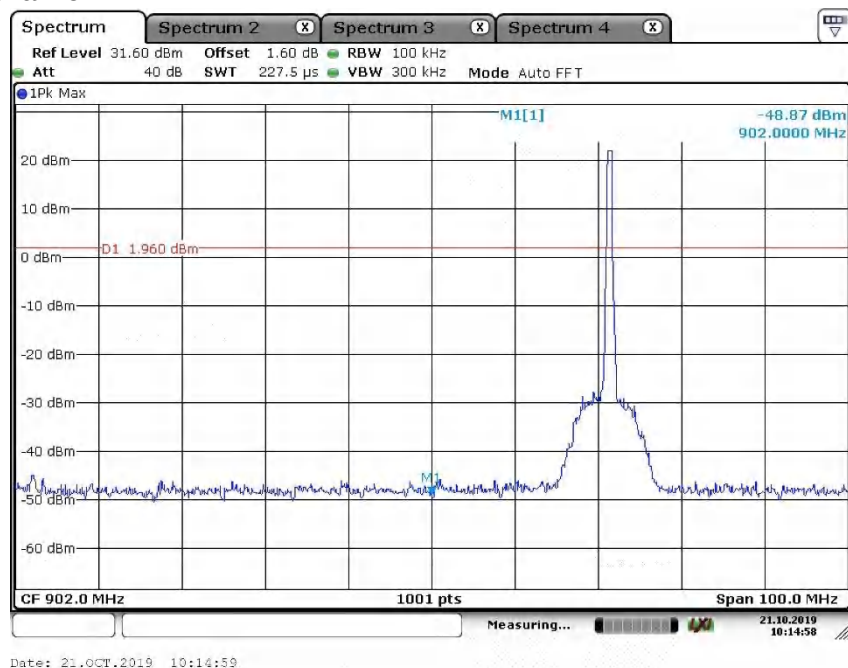
Middle Channel



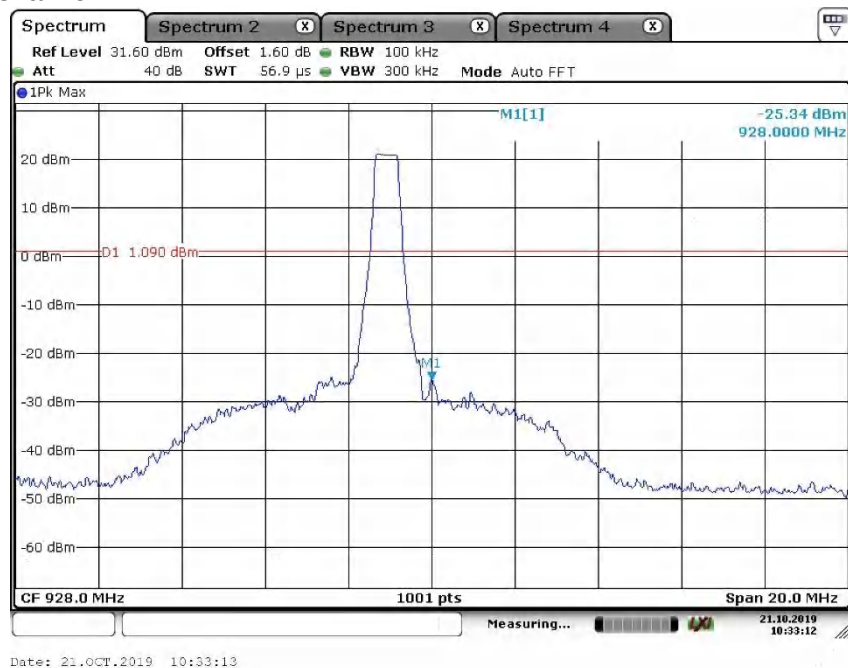
High Channel



Band Edge, Low Channel



Band Edge, High Channel



Appendix B.5: Test Results of Conducted Emission on AC Mains

Bluetooth connecting mode

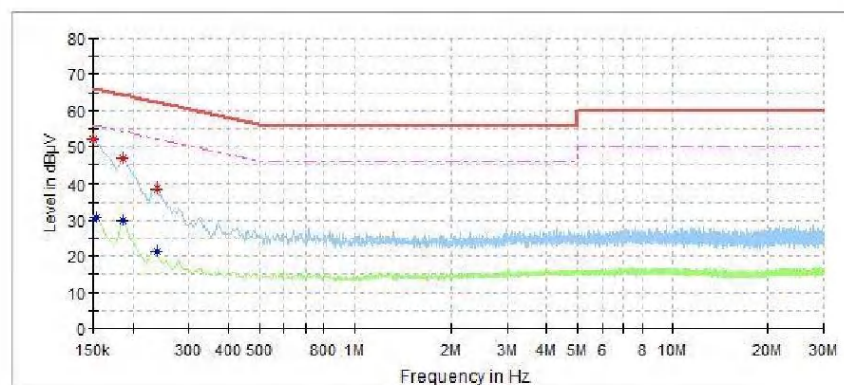
L-120V-BT

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Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb
Model:	PAR38
Order No.:	168134202 50
Test Mode:	Bluetooth connecting
Test Voltage:	AC 120V50Hz
Test By:	Tom Guo
Review By:	Gary Chen



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	51.92	---	66.00	14.08	---	---	L1	9.6
0.154000	---	30.87	55.78	24.91	---	---	L1	9.6
0.186000	---	30.07	54.21	24.15	---	---	L1	9.6
0.186000	46.70	---	64.21	17.52	---	---	L1	9.6
0.238000	---	21.52	52.17	30.64	---	---	L1	9.6
0.238000	38.71	---	62.17	23.46	---	---	L1	9.6

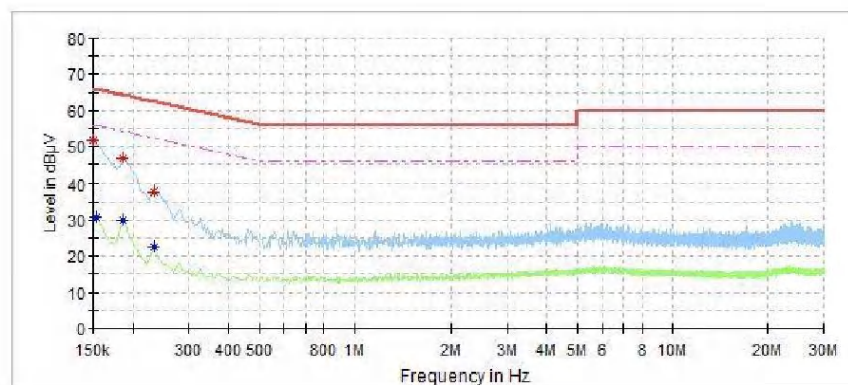
L-120V-BT

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Test Report

EUT Information

EUT Name:	Ring SmartLightbulb
Model:	PAR38
Order No.:	168134202 50
Test Mode:	Bluetooth connecting
Test Voltage:	AC 120V50Hz
Test By:	Tom Guo
Review By:	Gary Chen



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	51.74	---	66.00	14.26	---	---	N	9.6
0.154000	---	30.59	55.78	25.19	---	---	N	9.6
0.186000	---	29.89	54.21	24.33	---	---	N	9.6
0.186000	46.93	---	64.21	17.29	---	---	N	9.6
0.234000	---	22.63	52.31	29.68	---	---	N	9.6
0.234000	37.70	---	62.31	24.60	---	---	N	9.6

11/13/2019

9:59:30 AM

DTSSs connecting mode

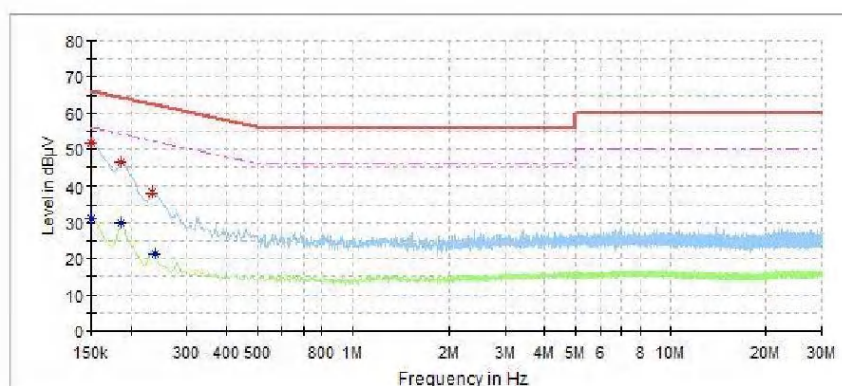
L-120V-BT

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Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb
Model:	PAR38
Order No.:	168134202 50
Test Mode:	DTSSs connecting
Test Voltage:	AC120V50Hz
Test By:	Tom Guo
Review By:	Gary Chen



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	---	31.10	56.00	24.90	---	---	L1	9.6
0.150000	51.88	---	66.00	14.12	---	---	L1	9.6
0.186000	---	29.99	54.21	24.22	---	---	L1	9.6
0.186000	46.45	---	64.21	17.77	---	---	L1	9.6
0.234000	38.03	---	62.31	24.27	---	---	L1	9.6
0.238000	---	21.17	52.17	30.99	---	---	L1	9.6

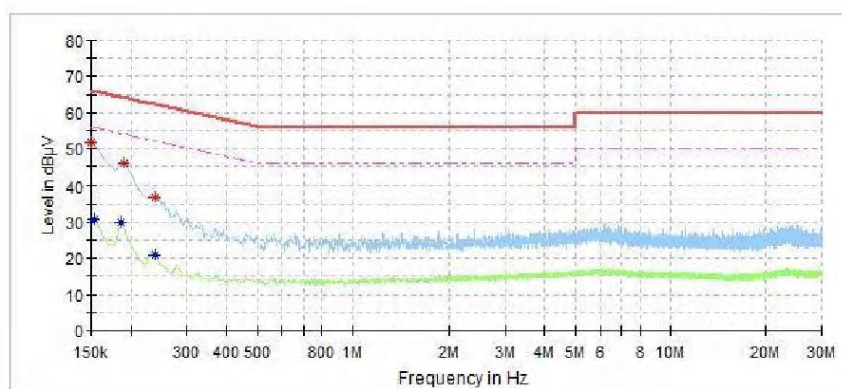
L-120V-BT

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Test Report

EUT Information

EUT Name:	Ring SmartLightbulb
Model:	PAR38
Order No.:	168134202 50
Test Mode:	DTSS connecting
Test Voltage:	AC 120V 50Hz
Test By:	Tom Guo
Review By:	Gary Chen
EUT Name:	Ring SmartLightbulb



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	51.81	---	66.00	14.19	---	---	N	9.6
0.154000	---	30.57	55.78	25.21	---	---	N	9.6
0.186000	---	29.77	54.21	24.44	---	---	N	9.6
0.190000	45.88	---	64.04	18.16	---	---	N	9.6
0.238000	---	20.74	52.17	31.43	---	---	N	9.6
0.238000	36.88	---	62.17	25.29	---	---	N	9.6

11/13/2019

9:59:30 AM

FHSS connecting mode

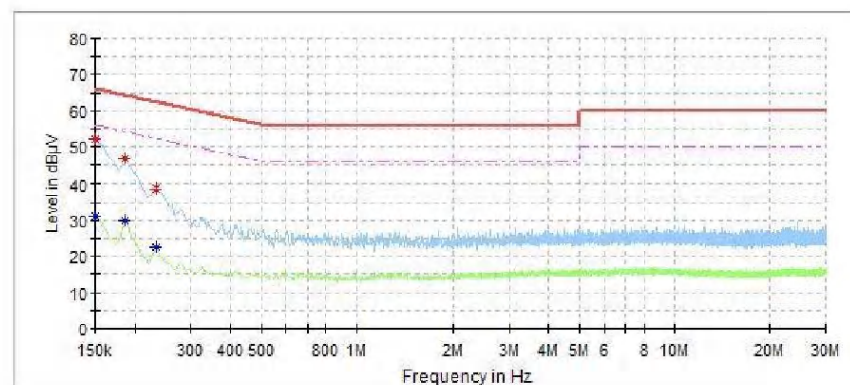
L-120V-BT

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Test Report

EUT Information

EUT Name:	Ring Smart Lightbulb
Model:	PAR38
Order No.:	168134202 50
Test Mode:	FHSS connecting
Test Voltage:	AC120V50Hz
Test By:	Tom Guo
Review By:	Gary Chen
EUT Name:	Ring Smart Lightbulb



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	---	31.14	56.00	24.86	---	---	L1	9.6
0.150000	51.98	---	66.00	14.02	---	---	L1	9.6
0.186000	---	29.89	54.21	24.33	---	---	L1	9.6
0.186000	46.65	---	64.21	17.56	---	---	L1	9.6
0.234000	---	22.59	52.31	29.72	---	---	L1	9.6
0.234000	38.75	---	62.31	23.55	---	---	L1	9.6

11/13/2019

9:59:30 AM

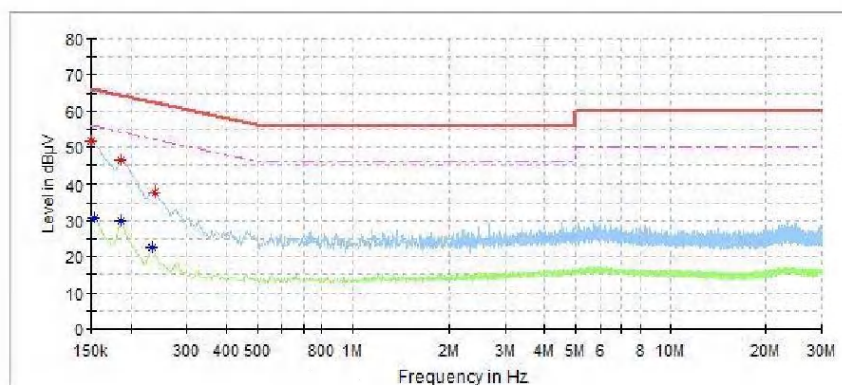
L-120V-BT

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Test Report

EUT Information

EUT Name: Ring SmartLightbulb
Model: PAR38
Order No.: 168134202 50
Test Mode: FHSs conneting
Test Voltage: AC120V50Hz
Test By: Tom Guo
Review By: Gary Chen
EUT Name: Ring SmartLightbulb



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	51.80	---	66.00	14.20	---	---	N	9.6
0.154000	---	30.59	55.78	25.19	---	---	N	9.6
0.186000	---	29.87	54.21	24.34	---	---	N	9.6
0.186000	46.44	---	64.21	17.77	---	---	N	9.6
0.234000	---	22.48	52.31	29.83	---	---	N	9.6
0.238000	37.55	---	62.17	24.62	---	---	N	9.6

11/13/2019

9:59:30 AM