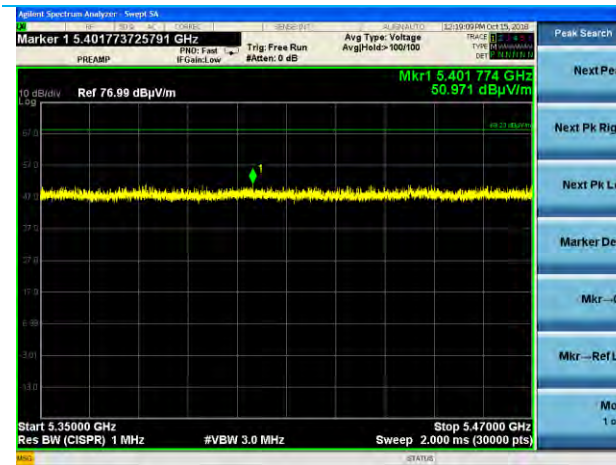
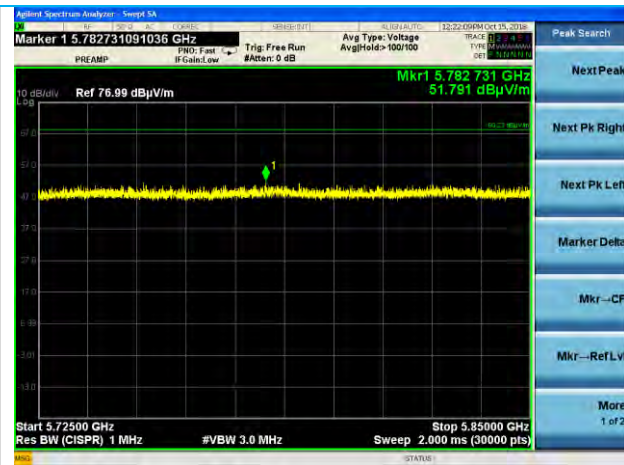
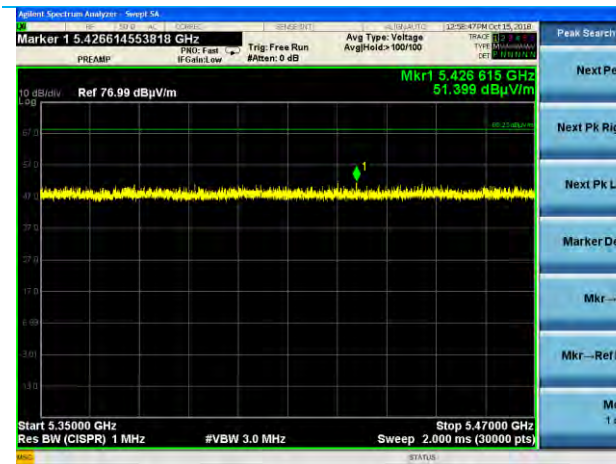




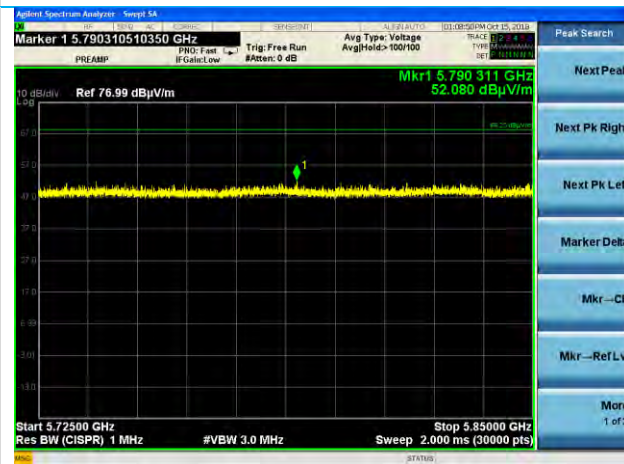
MCS7 LBE



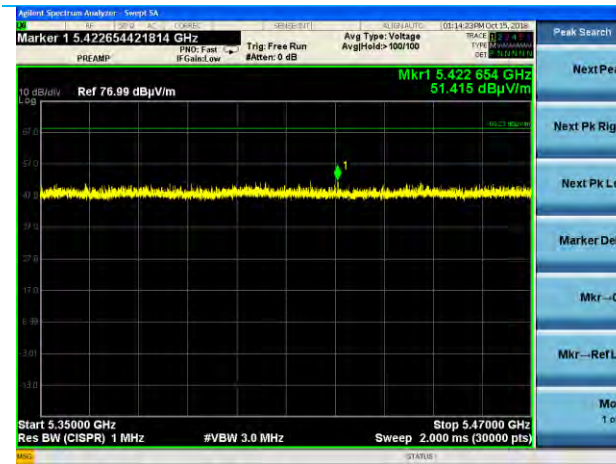
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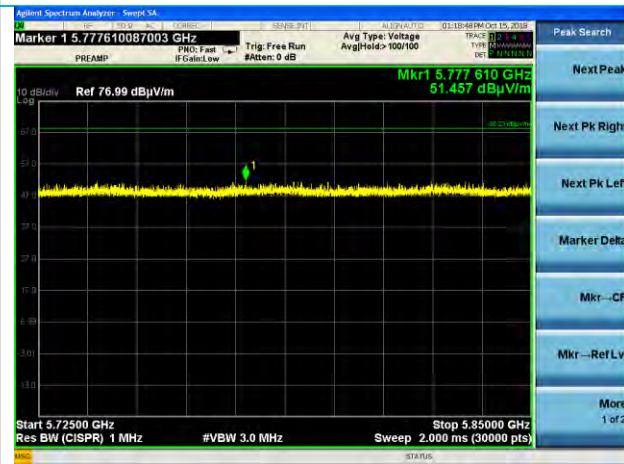
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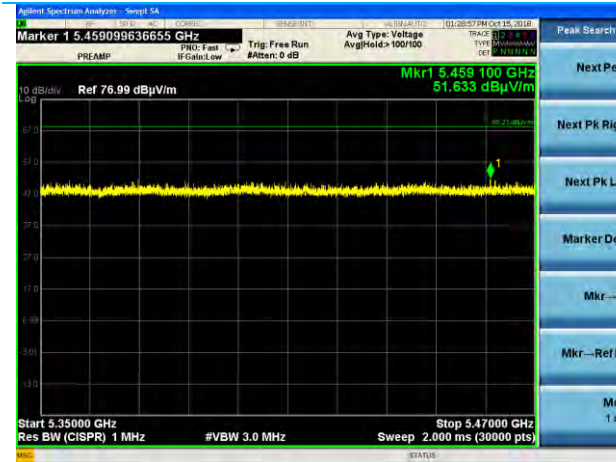
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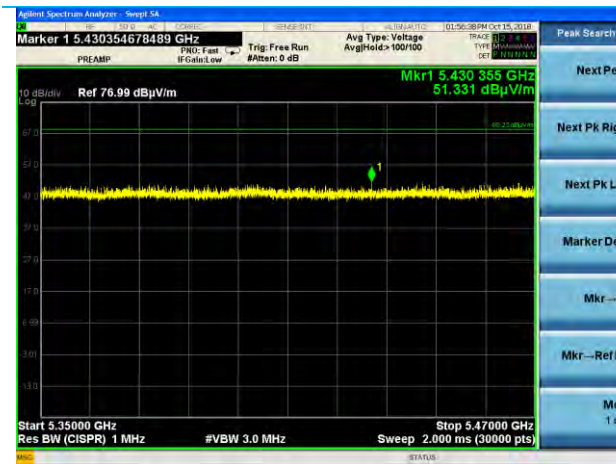
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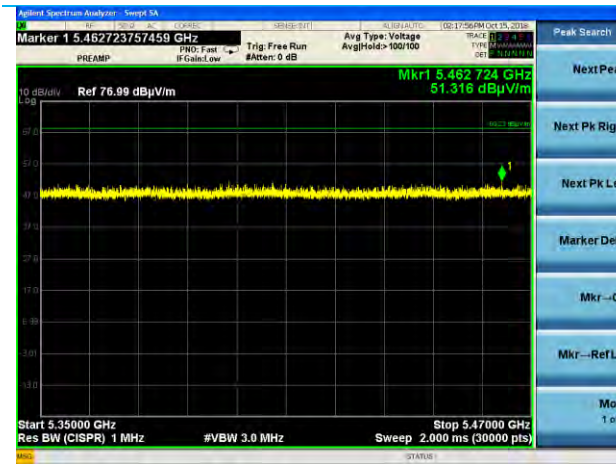
HT40 MCS7 UBE



HT40 MCS9 LBE



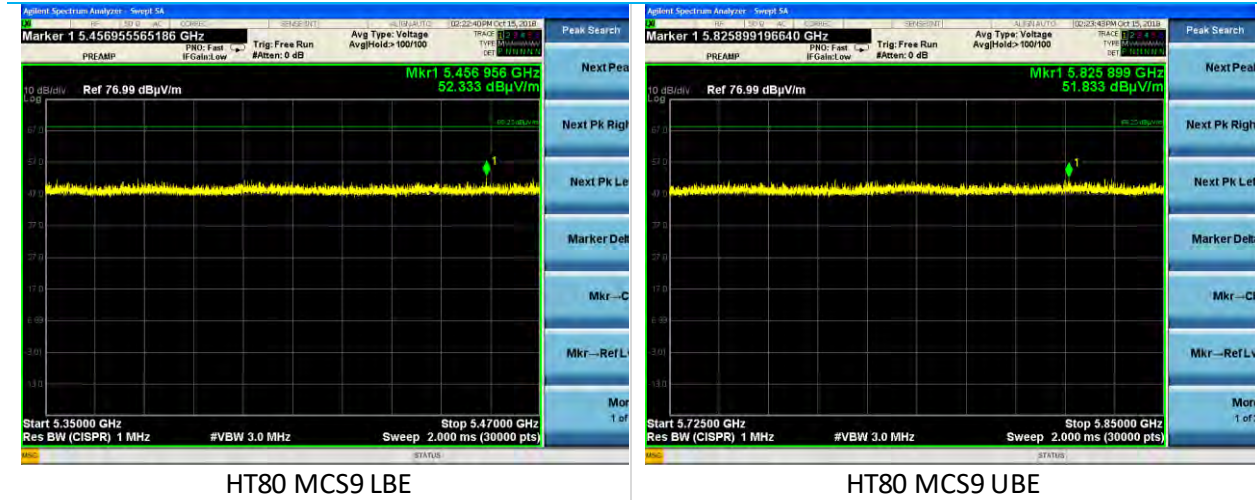
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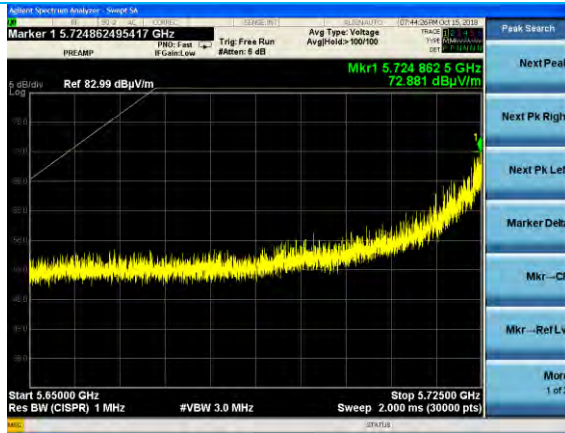
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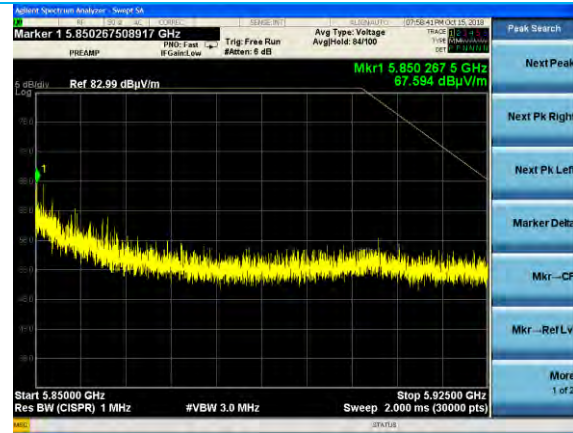
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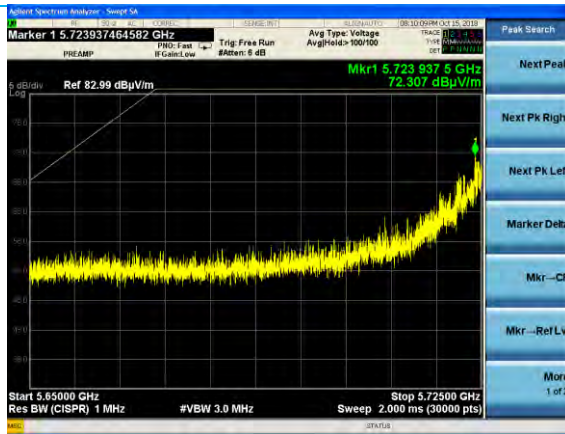
Plots – Peak Band Edges UNII 3



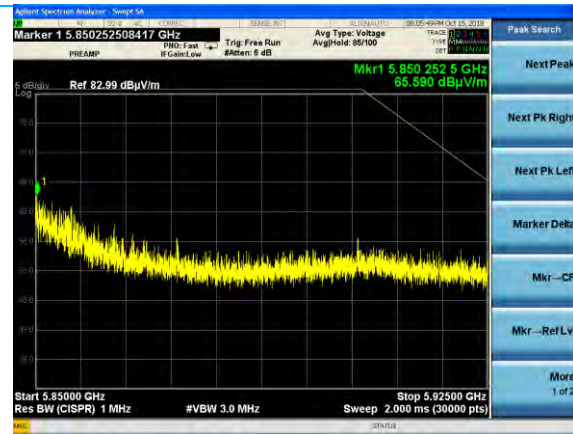
6 MBPS LBE



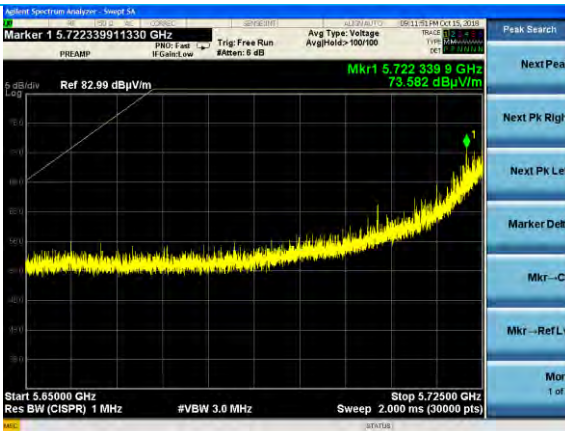
6 MBPS UBE



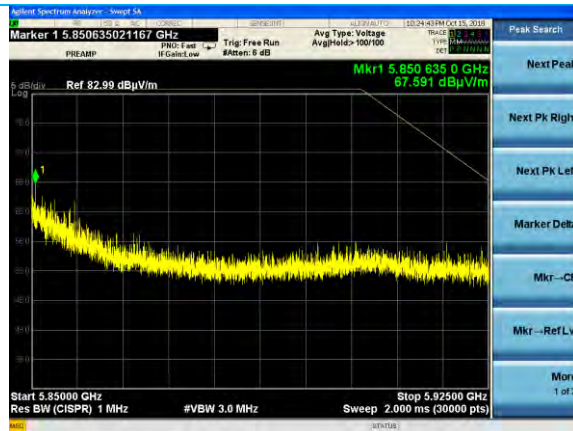
54 MBPS LBE



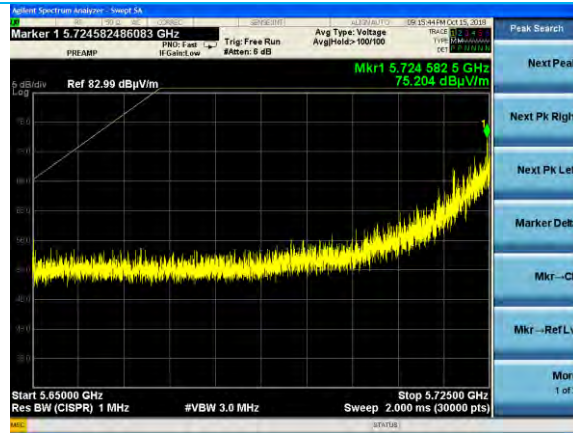
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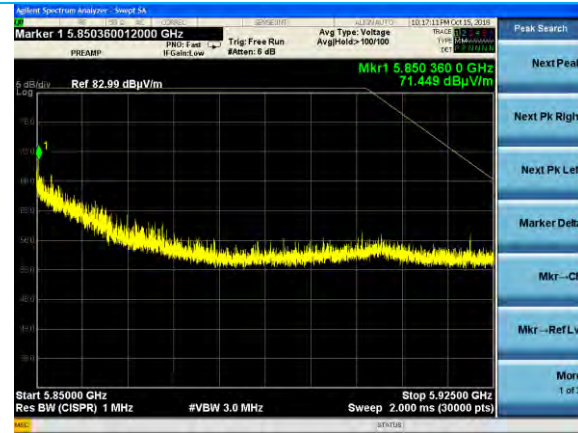
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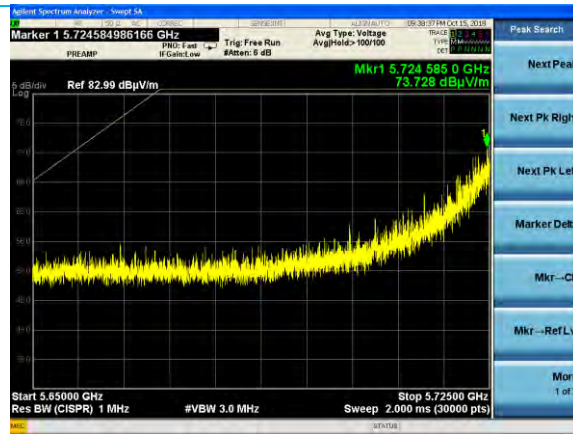
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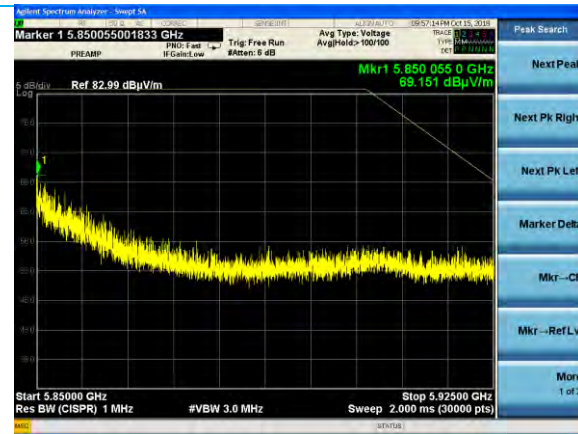
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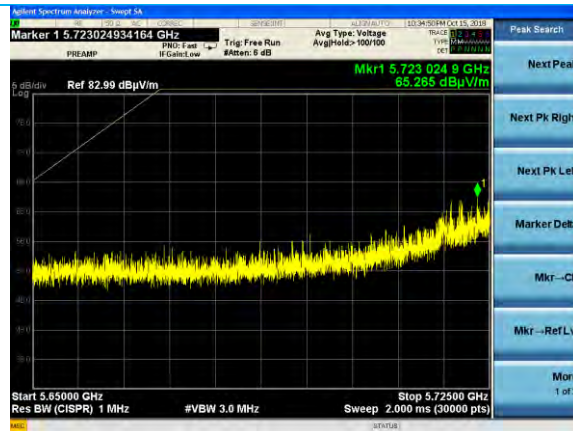
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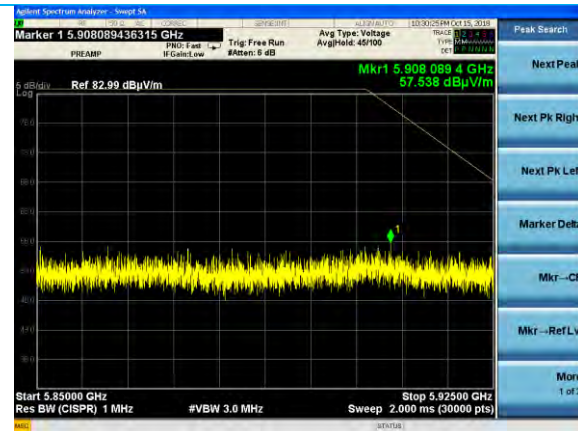
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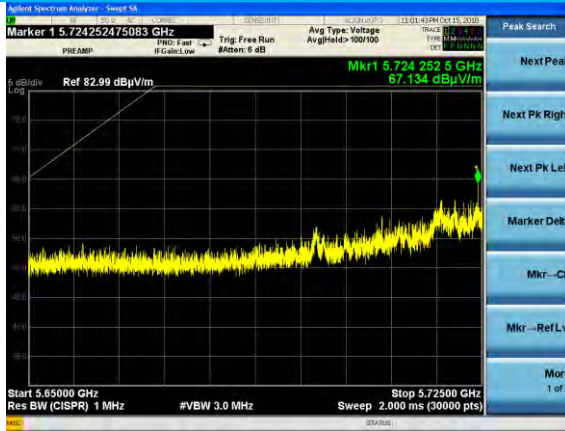
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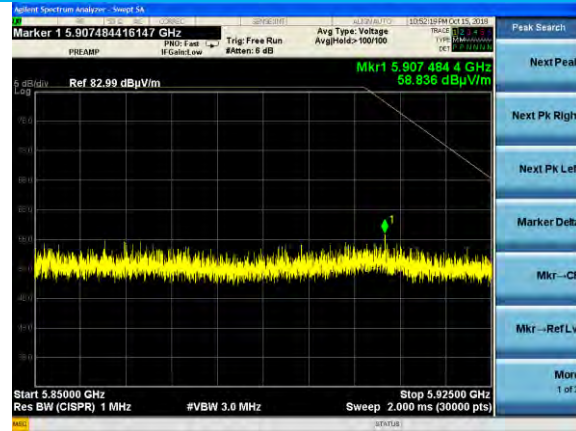
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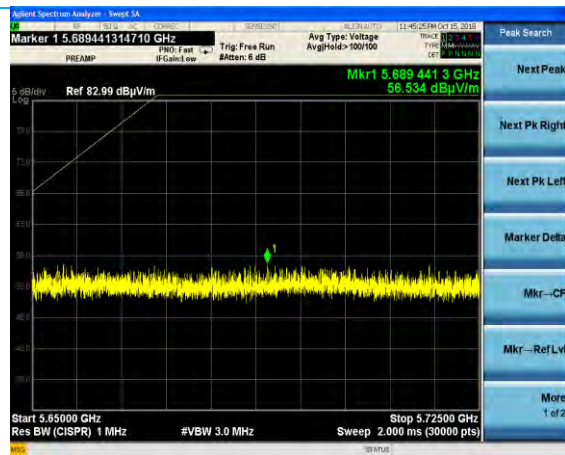
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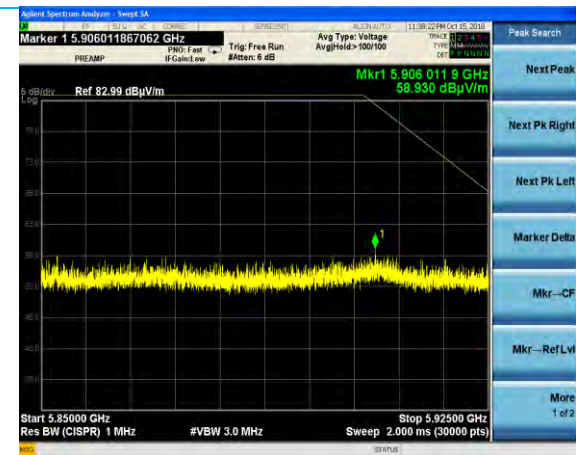
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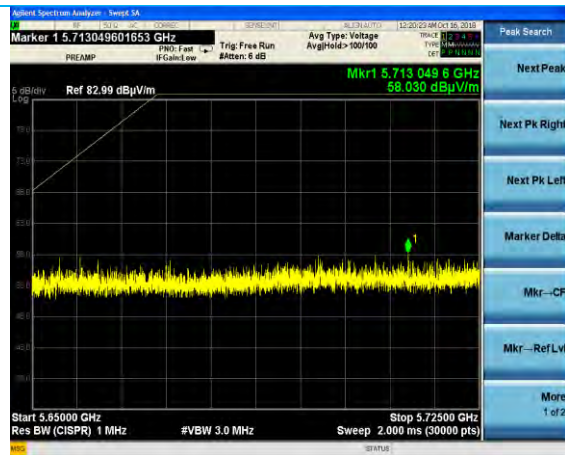
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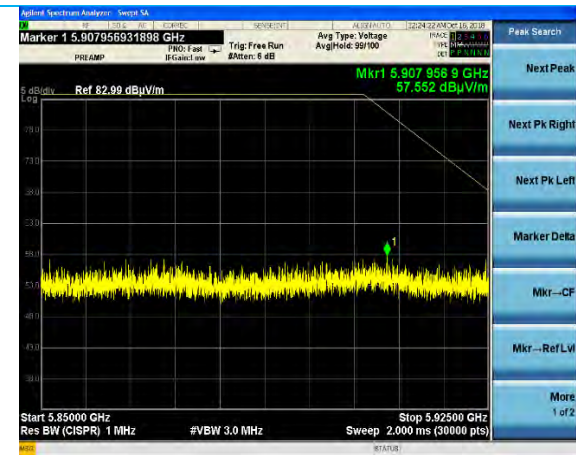
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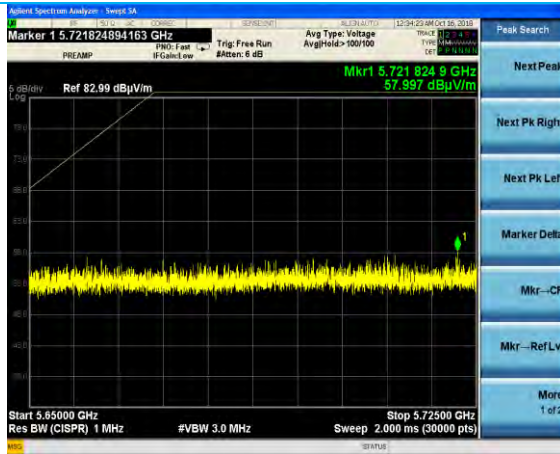
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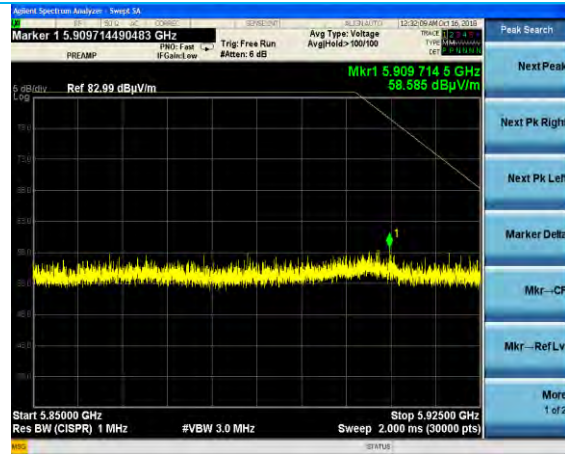
HT80 MCS0 LBE



HT80 MCS0 UBE



HT80 MCS9 LBE



HT80 MCS9 UBE

5.3 AC Mains Conducted Emissions

A line impedance stabilization network (LISN) or artificial mains network (AMN) allows the emissions of the power supply conductors to be measured while isolating the EUT from the supply mains.

Description of Measurement

The AMN, cable, and other necessary measurement system correction factors are loaded onto the EMI receiver when the measurements are performed. The data is gathered and reported as the corrected values.

Maximum emissions are determined with a peak max hold trace then measurements at a selection of the highest points are made with quasi-peak and average detectors. Results are recorded and compared to limit for each line. (e.g. line and neutral)

Example Calculations

Measurement (dBμV) + Cable factor (dB) + Other (dB) = Corrected Reading (dBμV)

Margin (dB) = Limit (dBμV) - Corrected Reading (dBμV)

Block Diagram



5.3.1 AC Mains Conducted Emissions

Operator	Shane Dock
QA	Anthony Smith
Test Date	1/24/2020
Location	Conducted Bench
Temp. / R.H.	21.3°C, 38.7 % RH
Requirement	FCC Part 15.407 (b)(6) RSS-GEN 8.8
Method	ANSI C63.10 Section 6.2

Limits:

Frequency (MHz)	Conducted Limit (dBμV)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency

Test Parameters

Frequency	0.15 – 30 MHz	Distance	40 cm from VCP
Detector(s)	Quasi-Peak, Average	Table height	80 cm
RBW	9 kHz	VBW	90 kHz
Notes	UNII Channel 36 data shown at 6 MBPS (Worst Case)		

Instrumentation



Date : 19-Sep-2019

Test : Conducted Emissions

Job : C-3013

PE : Shane Dock

Customer : Philips Healthcare

Quote : 317347

No.	Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due Date	Equipment Status
1	EE 960088	Analyzer - EMI Receive	Agilent	N9038A	MY51210138	4/23/2019	4/23/2020	Active Calibration
2	EE 960162	LISN	COM-POWER	LI-215A	191969	4/22/2019	4/22/2020	Active Calibration
3	LSC-200	Cable	Micro-Coax	UFB311A-0-1440-70U70U	64639 224071	12/9/2019	12/9/2020	Active Verification

Company: Philips North America LLC	Page 226 of 228	Name: PHC-11AC1-A
Report: 317347 A		Model: PHC-11AC1-A
Job: C-3013		Serial: Engineering Samples

EUT Parameters

Input Power	Module powered by 3.3 VDC provided by AC-DC converter	Mode	Modulated Tx
EUT	EUT Connected to Host board		

Table

Frequency (MHz)	Line	Quasi-Peak Reading (dBμV)	Quasi-Peak Limit (dBμV)	Quasi-Peak Margin (dB)	Average Reading (dBμV)	Average Limit (dBμV)	Average Margin (dB)
0.159	L1	36.5	65.5	29.0	24.3	55.5	31.2
0.226	L1	38.7	62.6	23.9	26.6	52.6	26.0
0.327	L1	43.0	59.5	16.5	32.4	49.5	17.1
0.150	L2	51.6	66.0	14.4	27.7	56.0	28.3
0.168	L2	49.9	65.1	15.2	25.1	55.1	30.0
0.244	L2	42.8	62.0	19.2	26.0	52.0	26.0

Plots



6 REVISION HISTORY

Version	Date	Notes	Person
V0	9/19/2019	First Draft	Shane Dock
V1	11/21/2019	First round of updates	Shane Dock
V2	1/20/2020	2 nd round of updates	Shane Dock
V3	1/27/2020	3 rd Round of updates	Shane Dock
V4	2/10/2020	4 th round of updates	Shane Dock
V4	2/12/2020	5 th round of updates	Shane Dock
V5	3/5/2020	Fixes to template	Shane Dock
V6	3/7/2020	Added Conducted Spurious Data	Shane Dock
V7	4/14/2020	Review Concluded	Shane Dock
V8	4/16/2020	Final Draft	Shane Dock

END OF REPORT