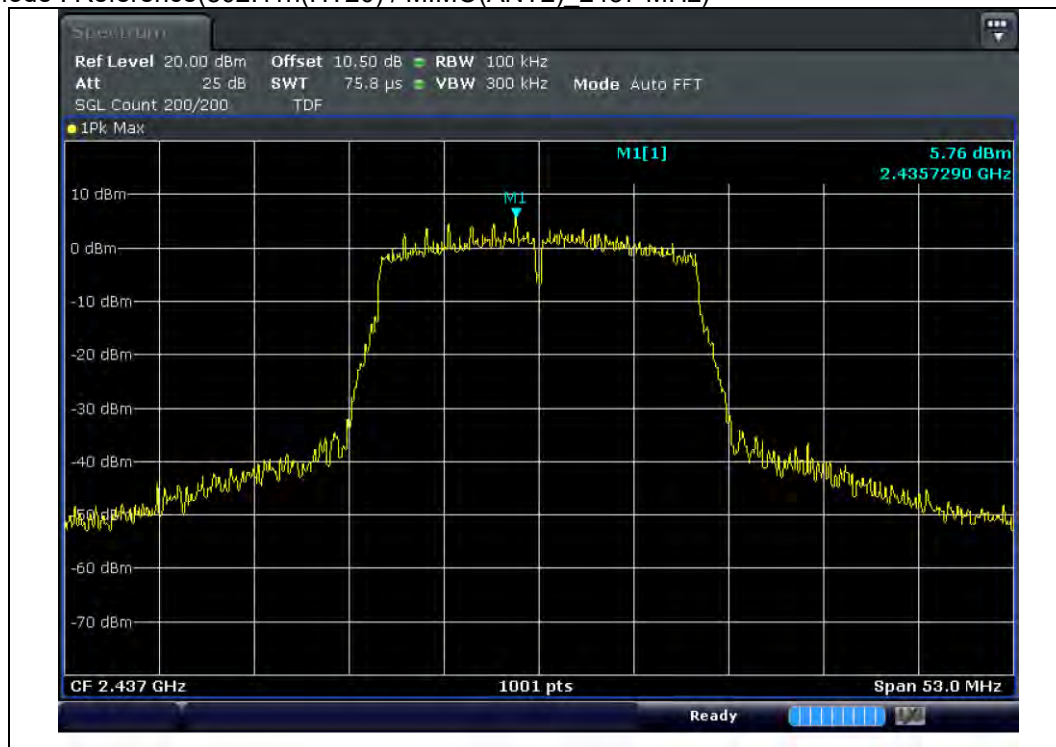


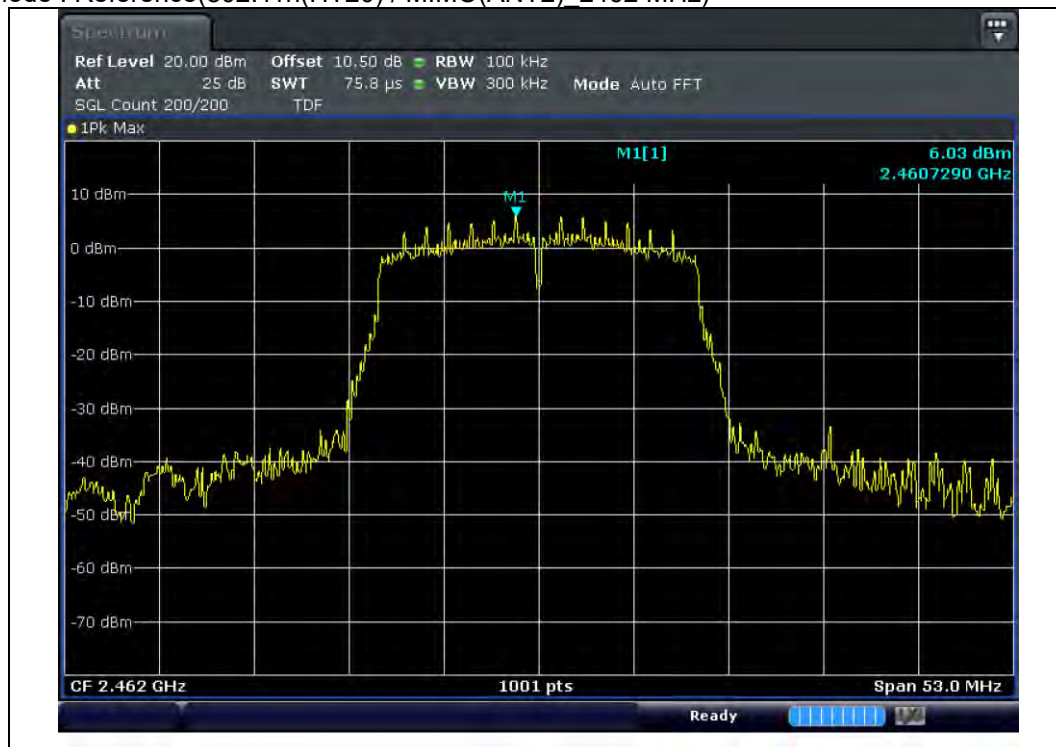
Test mode : Reference(802.11n(HT20) / MIMO(ANT2) _2437 MHz)



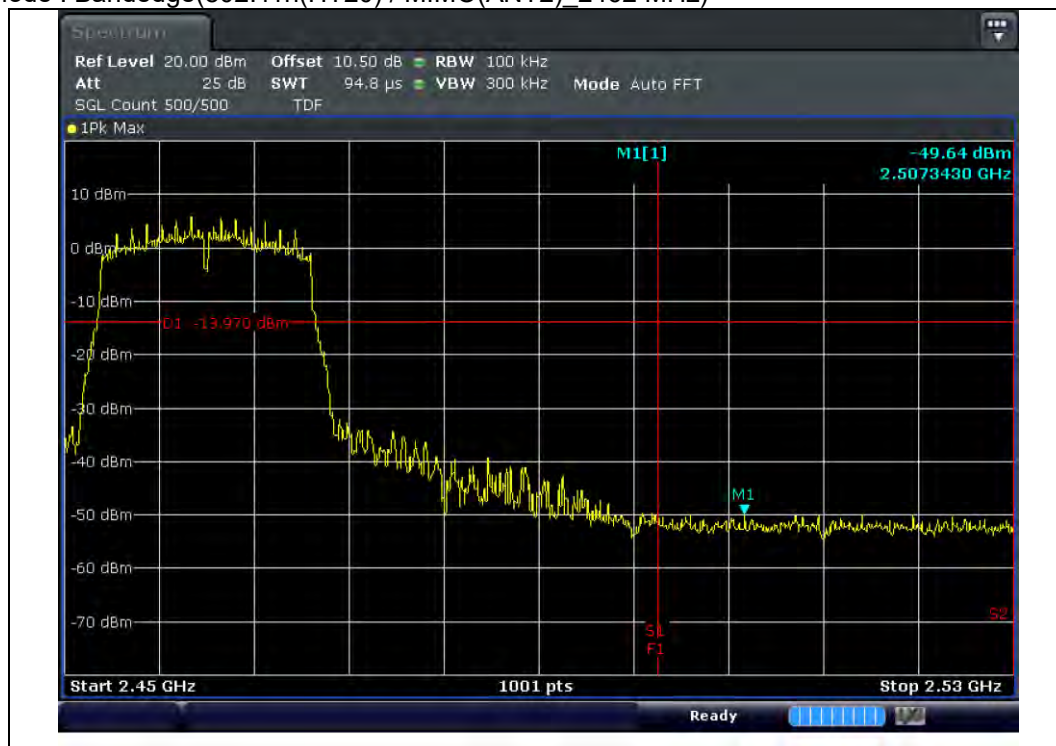
Test mode : Conducted Spurious Emission(802.11n(HT20) / MIMO(ANT2) _2437 MHz)



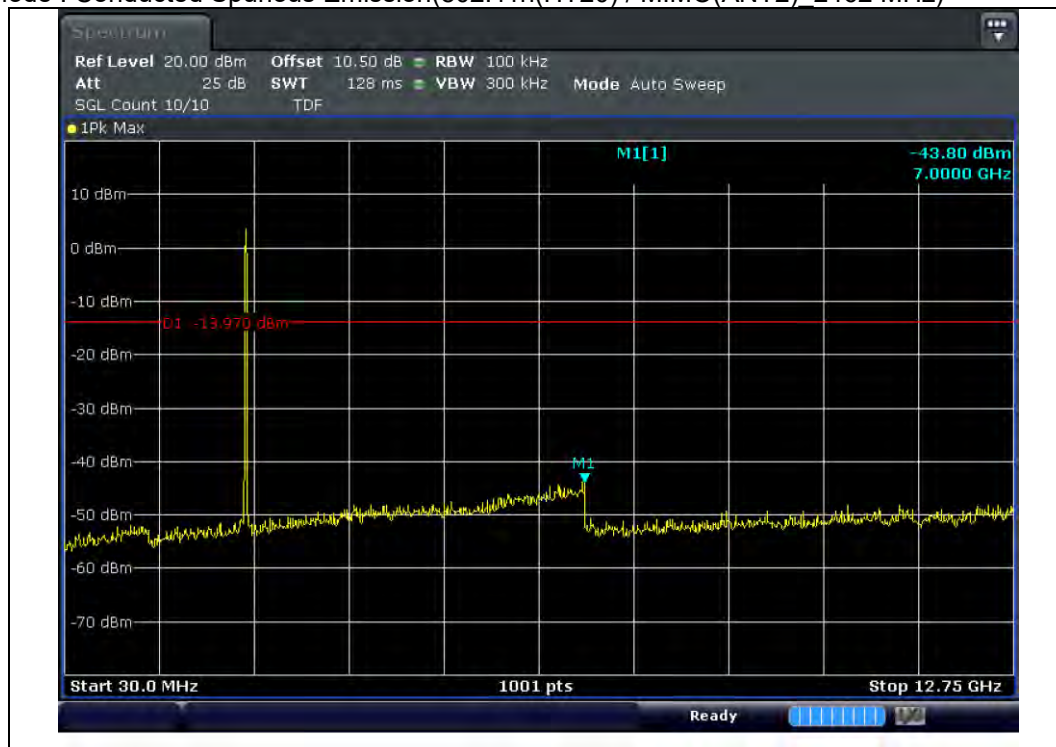
Test mode : Reference(802.11n(HT20) / MIMO(ANT2) 2462 MHz)



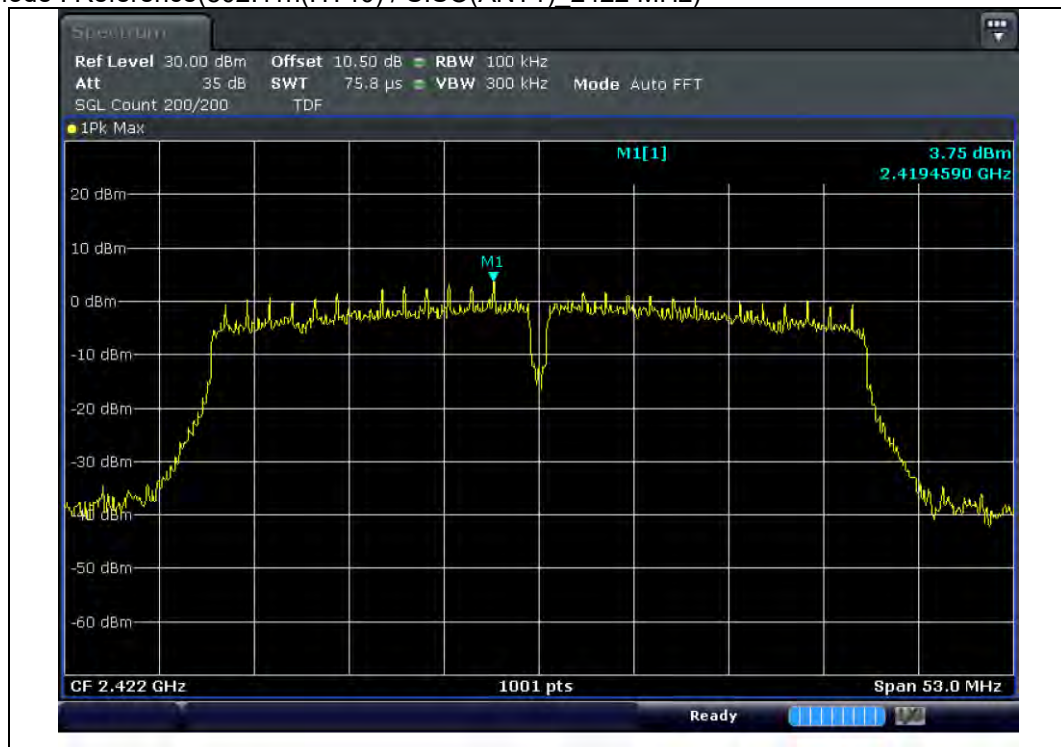
Test mode : Bandedge(802.11n(HT20) / MIMO(ANT2) 2462 MHz)



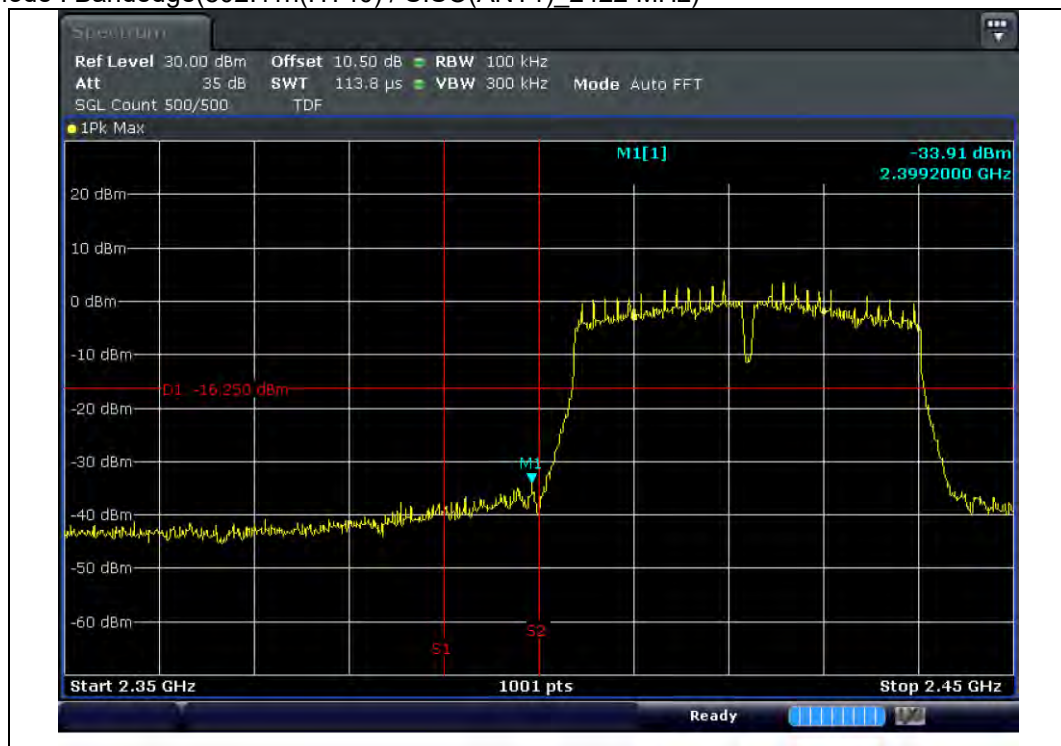
Test mode : Conducted Spurious Emission(802.11n(HT20) / MIMO(ANT2) 2462 MHz)



Test mode : Reference(802.11n(HT40) / SISO(ANT1)_2422 MHz)



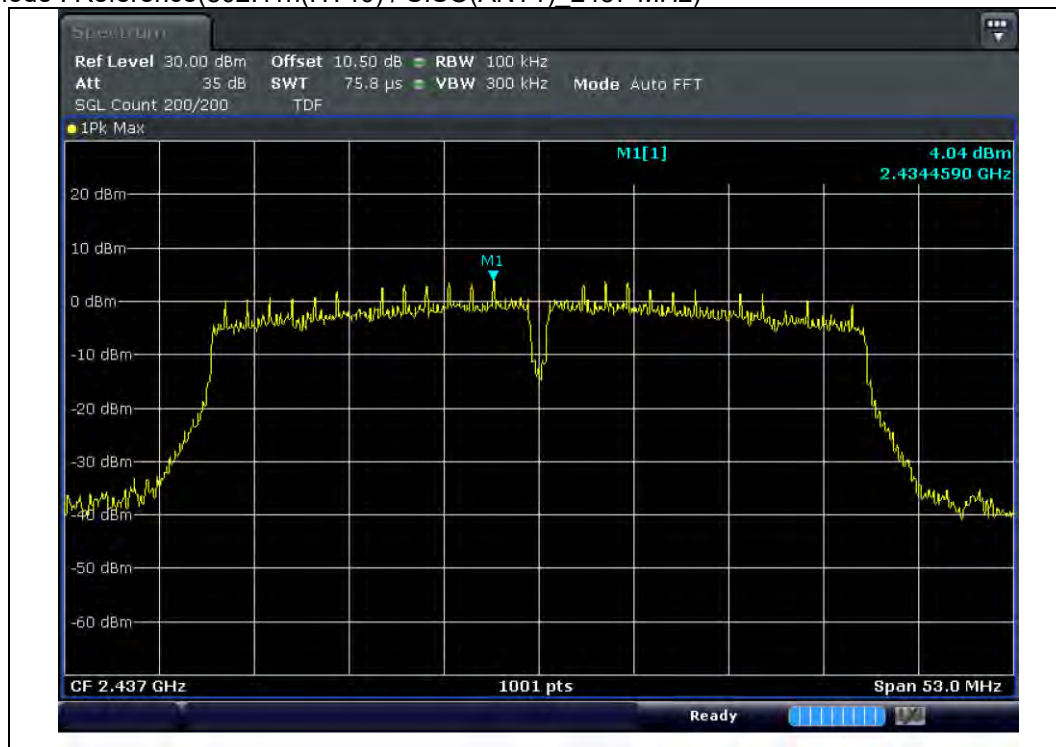
Test mode : Bandedge(802.11n(HT40) / SISO(ANT1)_2422 MHz)



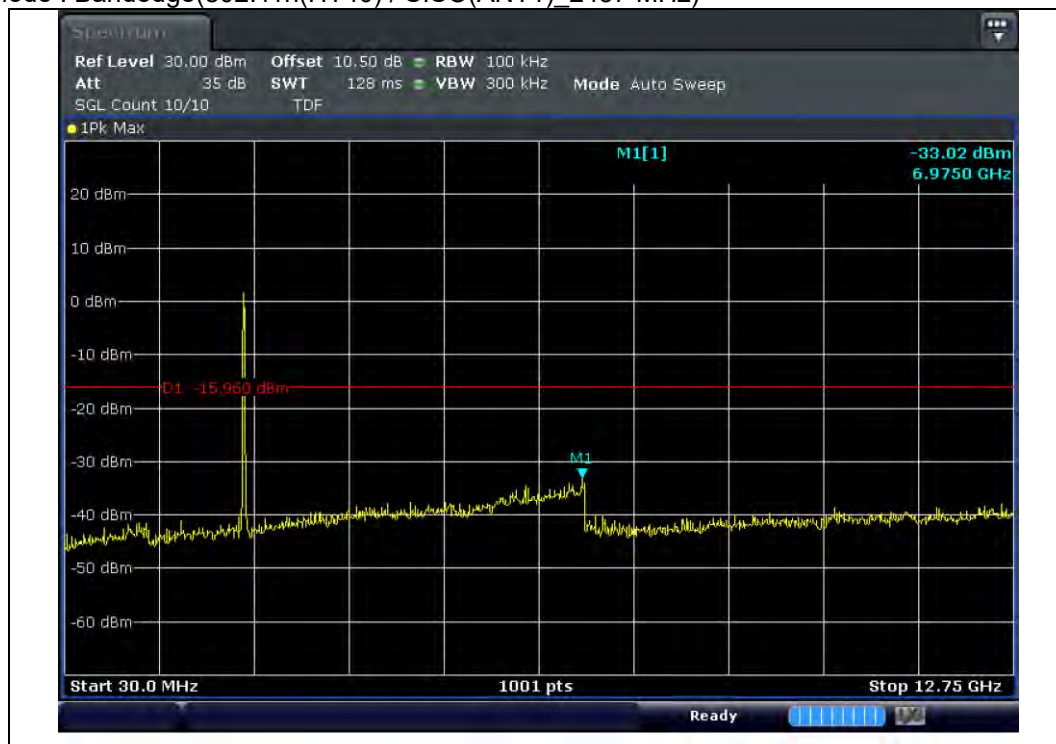
Test mode : Conducted Spurious Emission(802.11n(HT40) / SISO(ANT1) 2422 MHz)



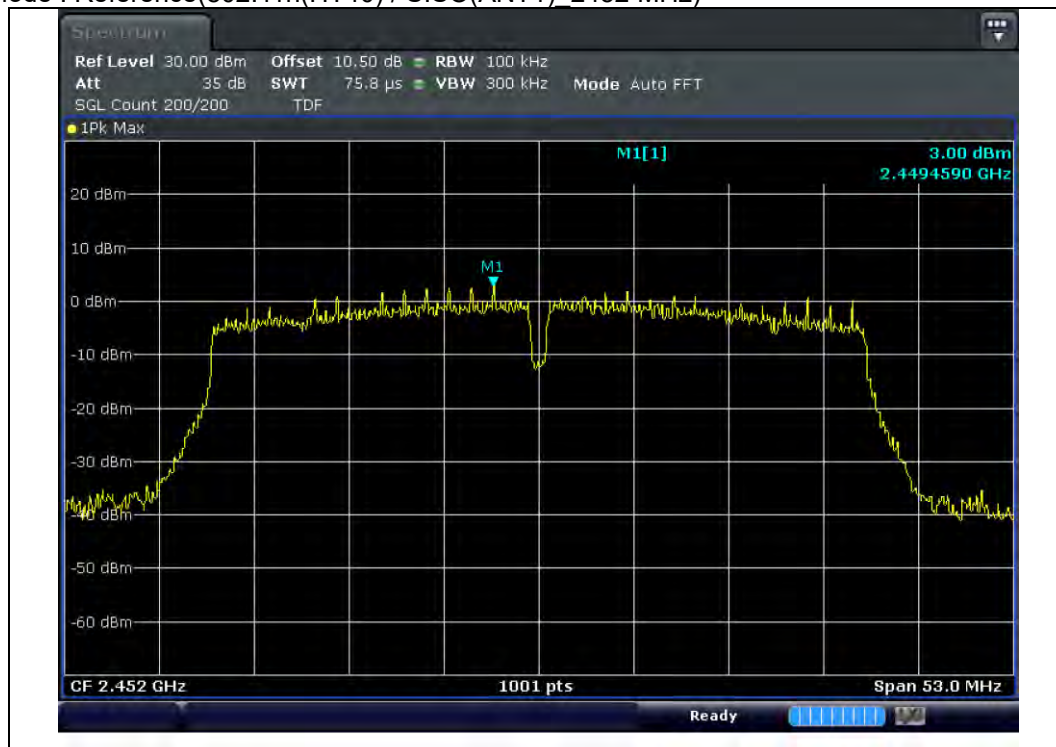
Test mode : Reference(802.11n(HT40) / SISO(ANT1) 2437 MHz)



Test mode : Bandedge(802.11n(HT40) / SISO(ANT1)_2437 MHz)



Test mode : Reference(802.11n(HT40) / SISO(ANT1)_ 2452 MHz)



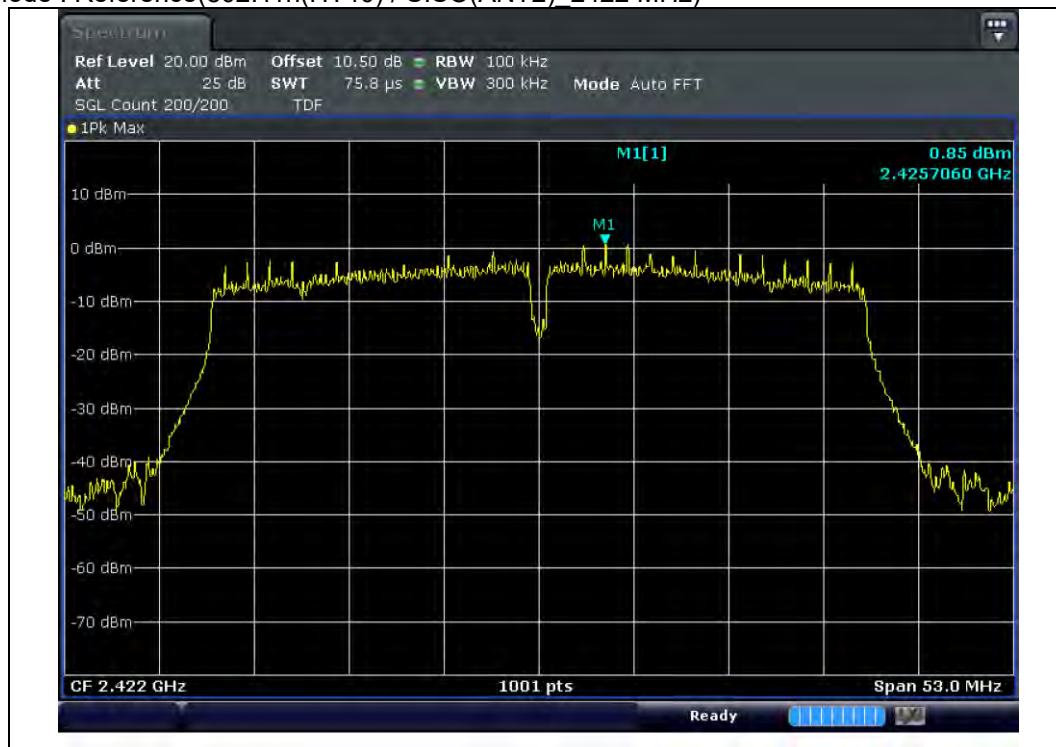
Test mode : Bandedge(802.11n(HT40) / SISO(ANT1)_ 2452 MHz)



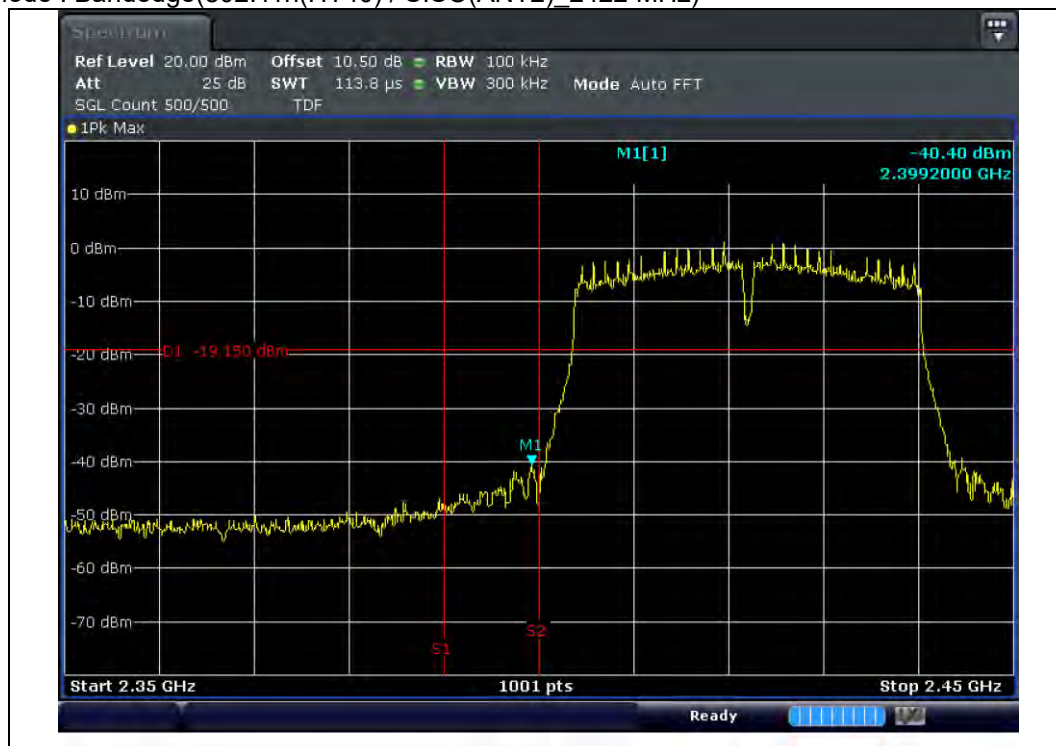
Test mode : Conducted Spurious Emission(802.11n(HT40) / SISO(ANT1) 2452 MHz)



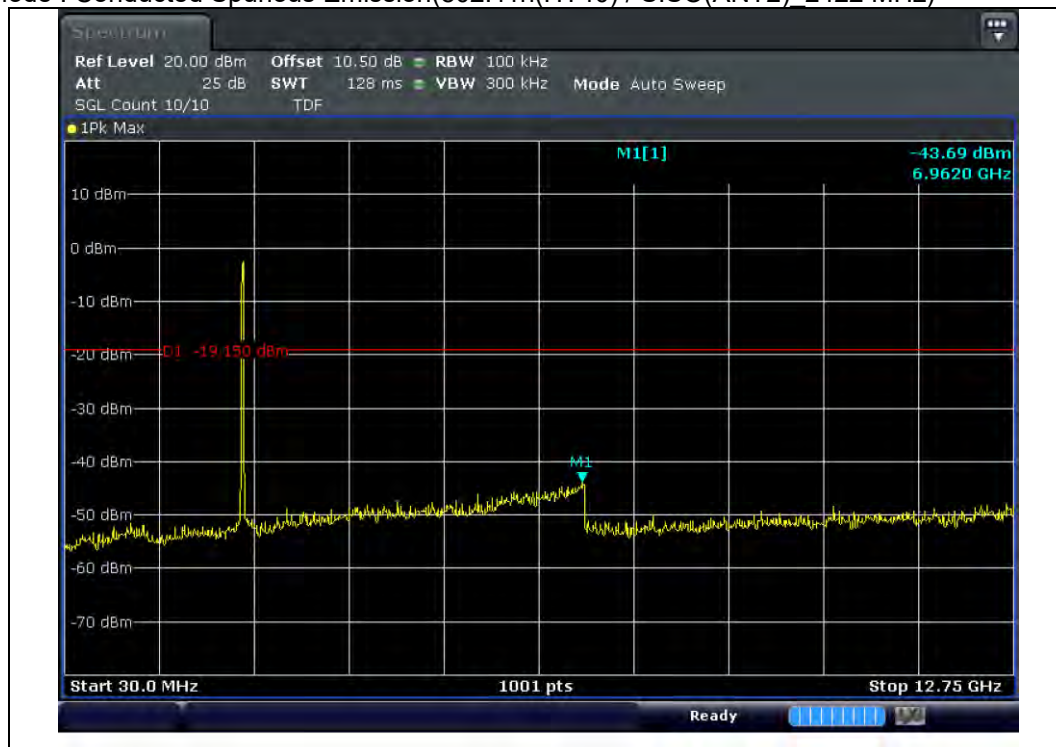
Test mode : Reference(802.11n(HT40) / SISO(ANT2)_2422 MHz)



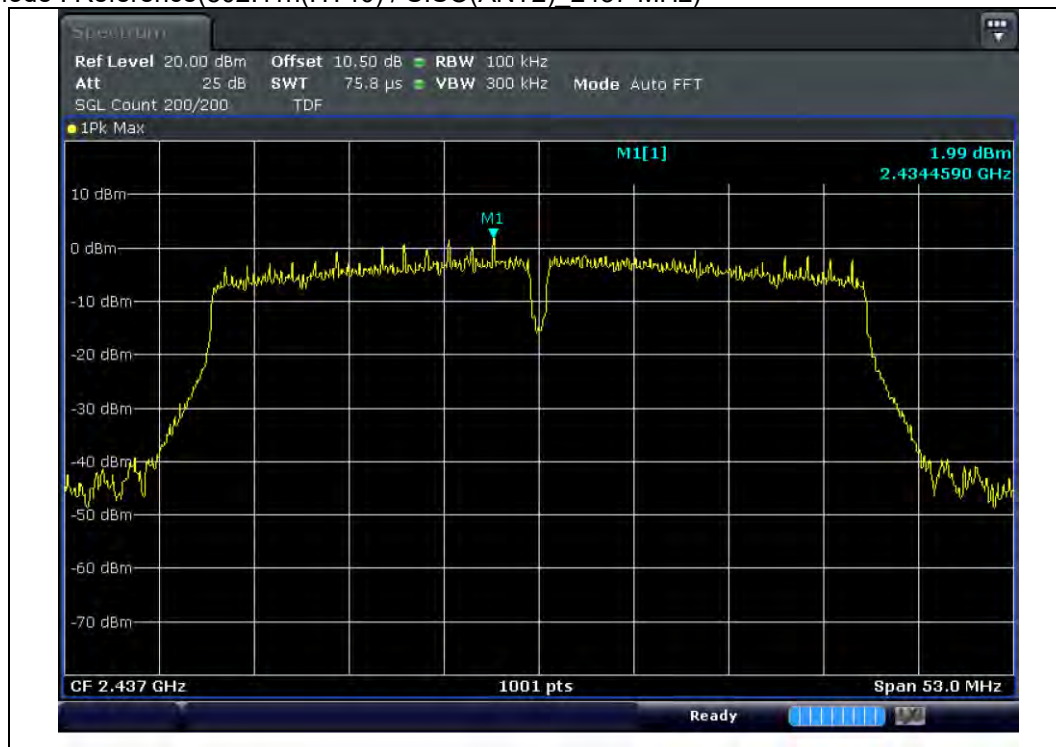
Test mode : Bandedge(802.11n(HT40) / SISO(ANT2)_2422 MHz)



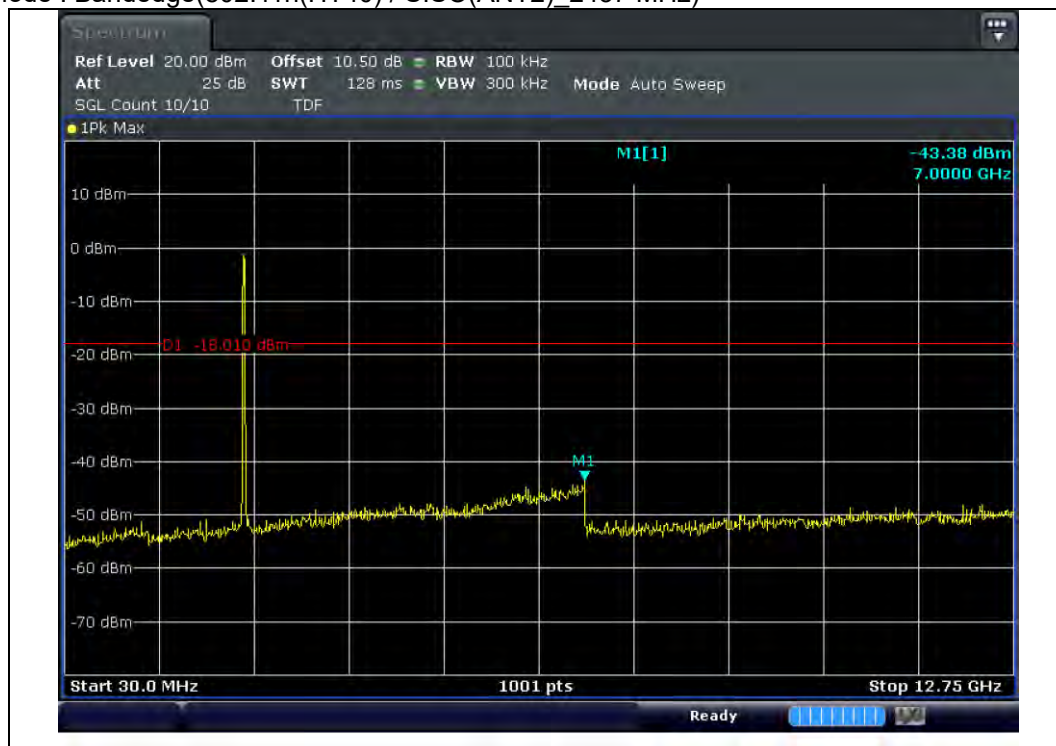
Test mode : Conducted Spurious Emission(802.11n(HT40) / SISO(ANT2) 2422 MHz)



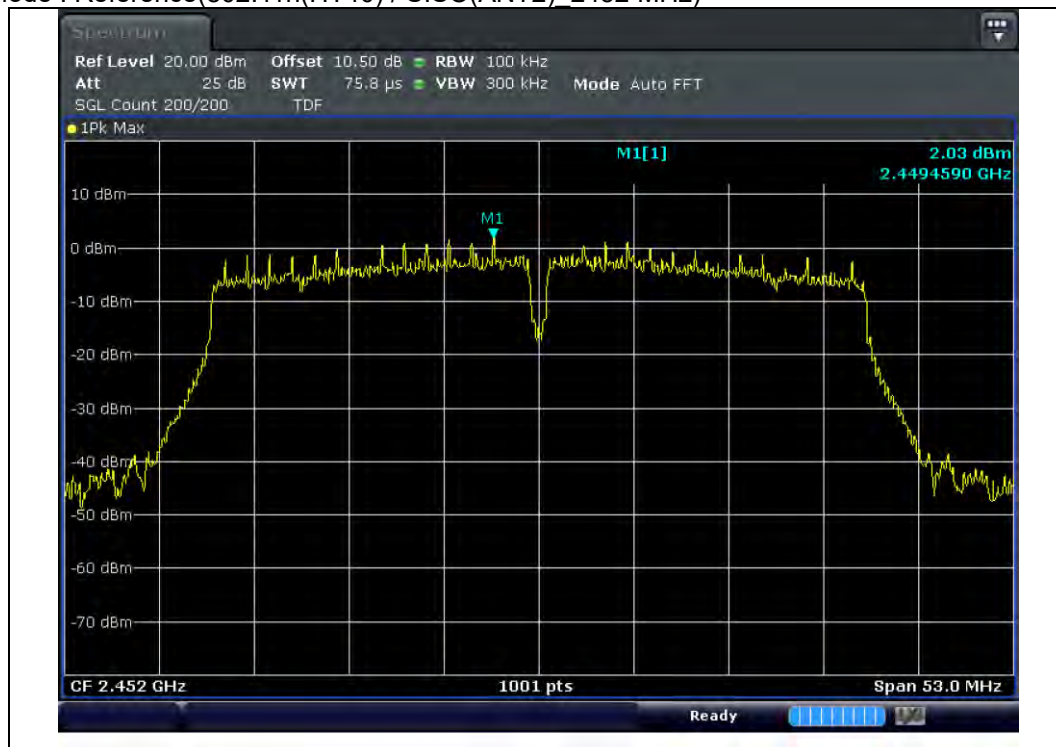
Test mode : Reference(802.11n(HT40) / SISO(ANT2)_2437 MHz)



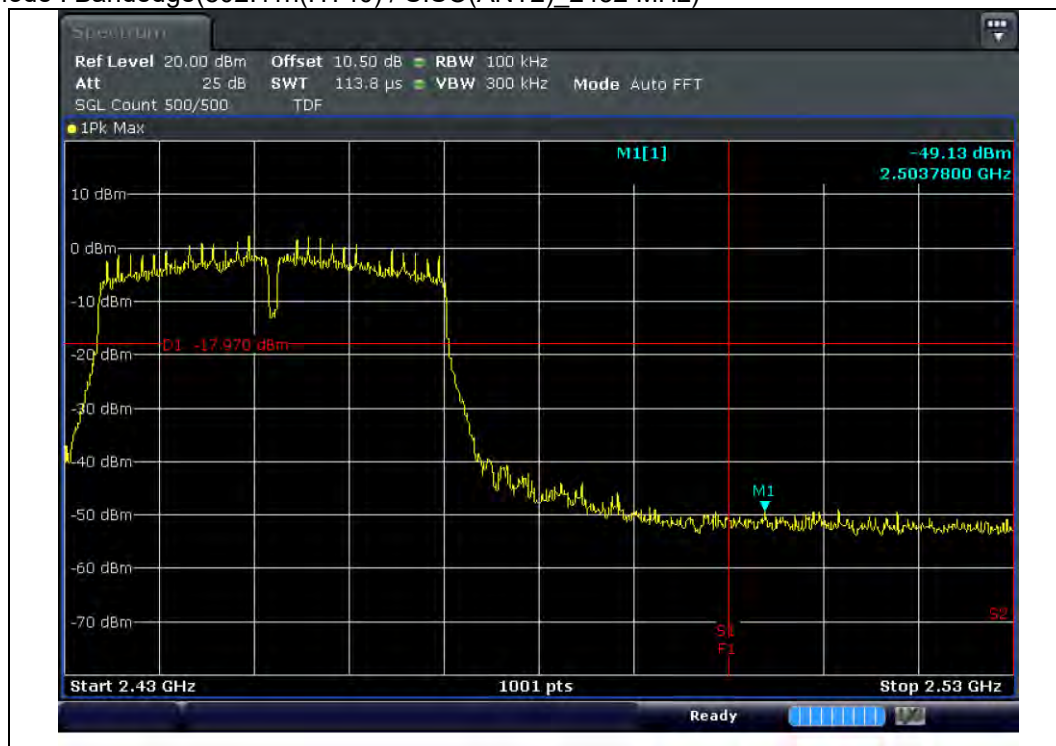
Test mode : Bandedge(802.11n(HT40) / SISO(ANT2)_2437 MHz)



Test mode : Reference(802.11n(HT40) / SISO(ANT2)_2452 MHz)



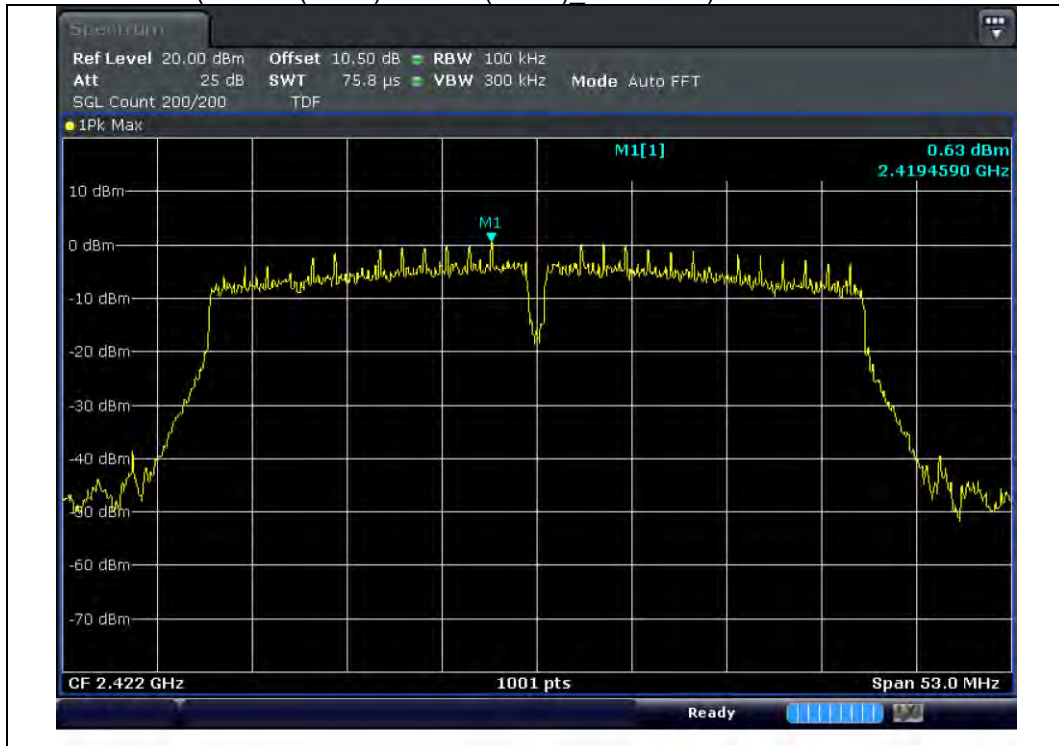
Test mode : Bandedge(802.11n(HT40) / SISO(ANT2)_2452 MHz)



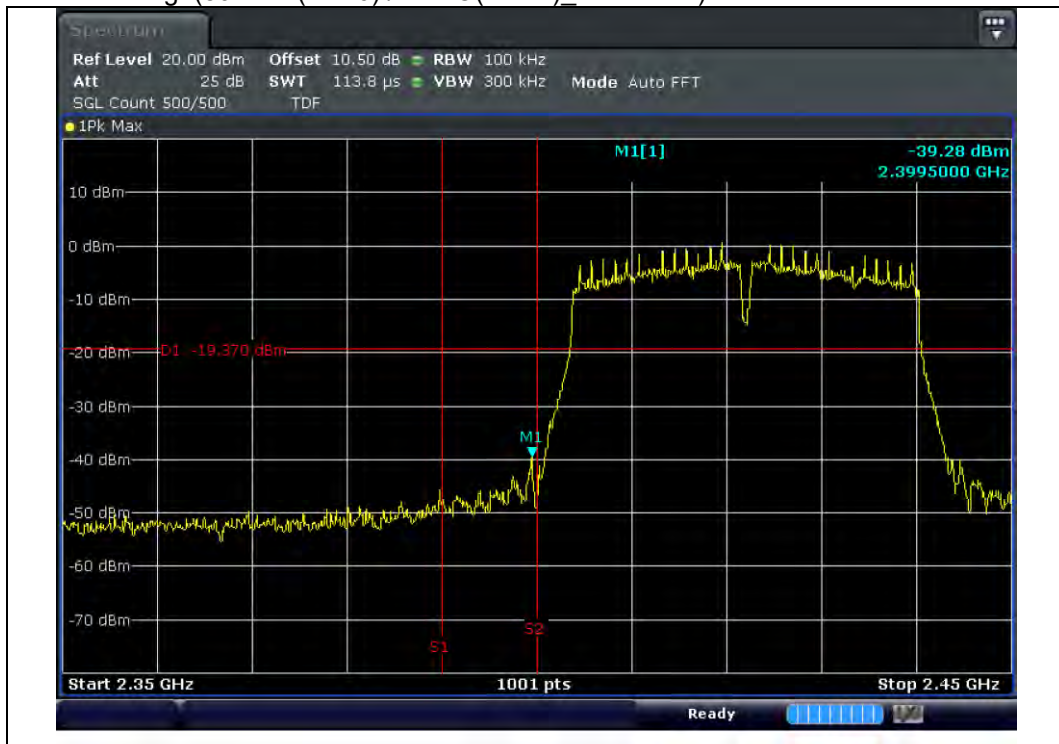
Test mode : Conducted Spurious Emission(802.11n(HT40) / SISO(ANT2) 2452 MHz)



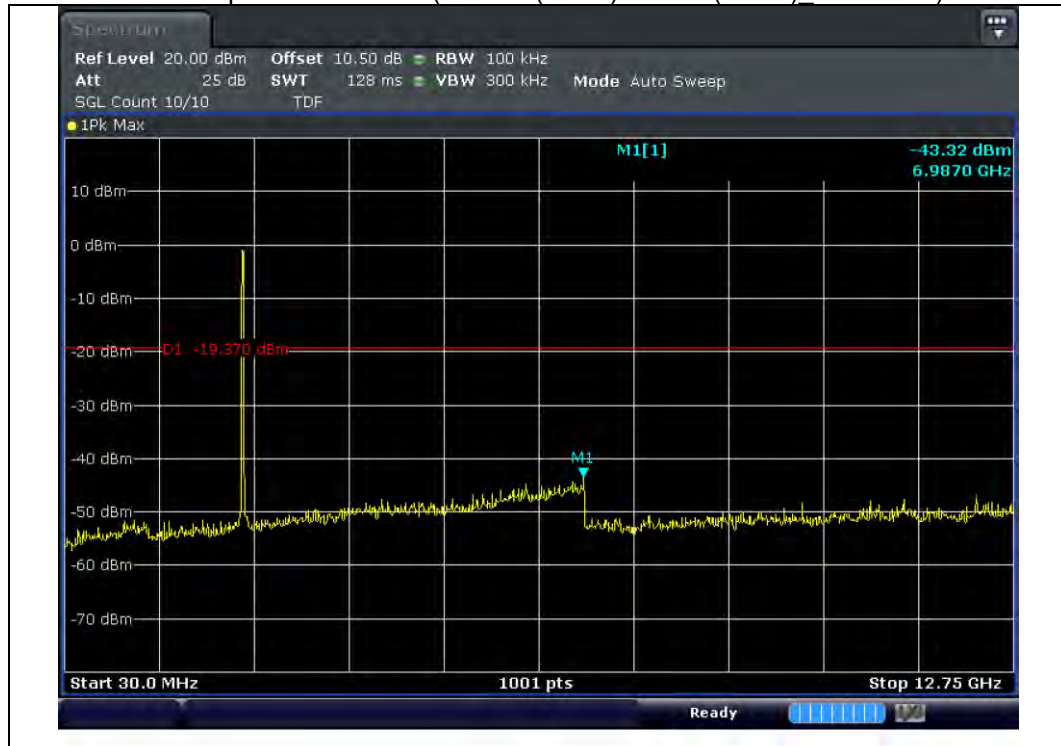
Test mode : Reference(802.11n(HT40) / MIMO (ANT1) 2422 MHz)



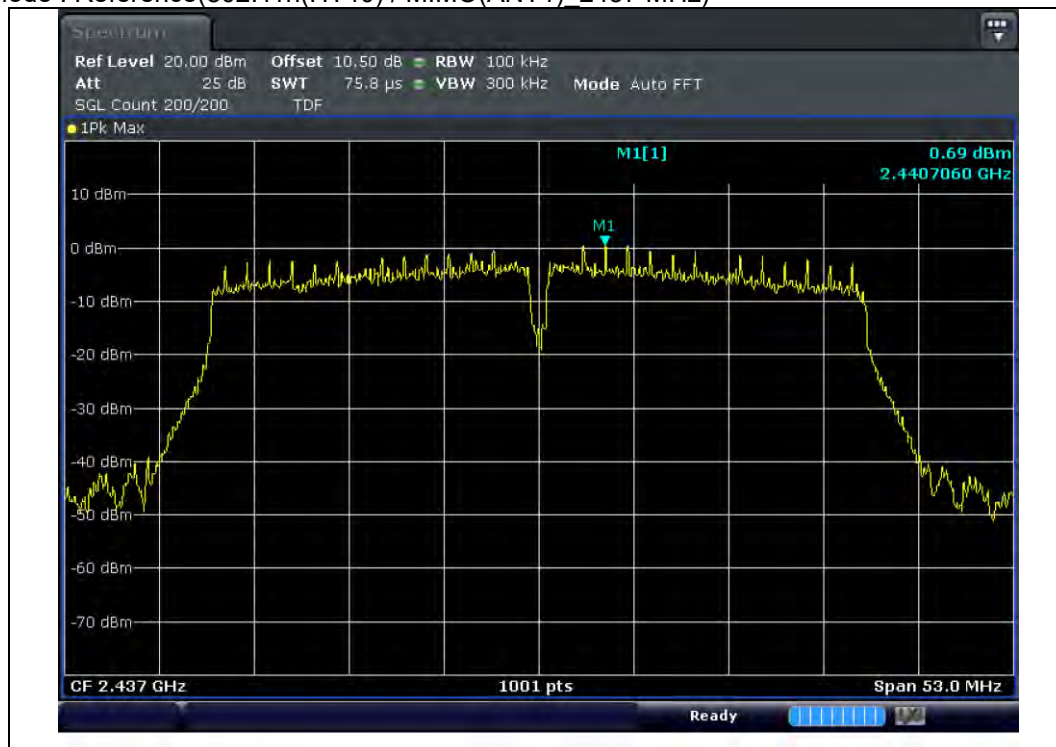
Test mode : Bandedge(802.11n(HT40) / MIMO(ANT1) 2422 MHz)



Test mode : Conducted Spurious Emission(802.11n(HT40) / MIMO(ANT1) 2422 MHz)



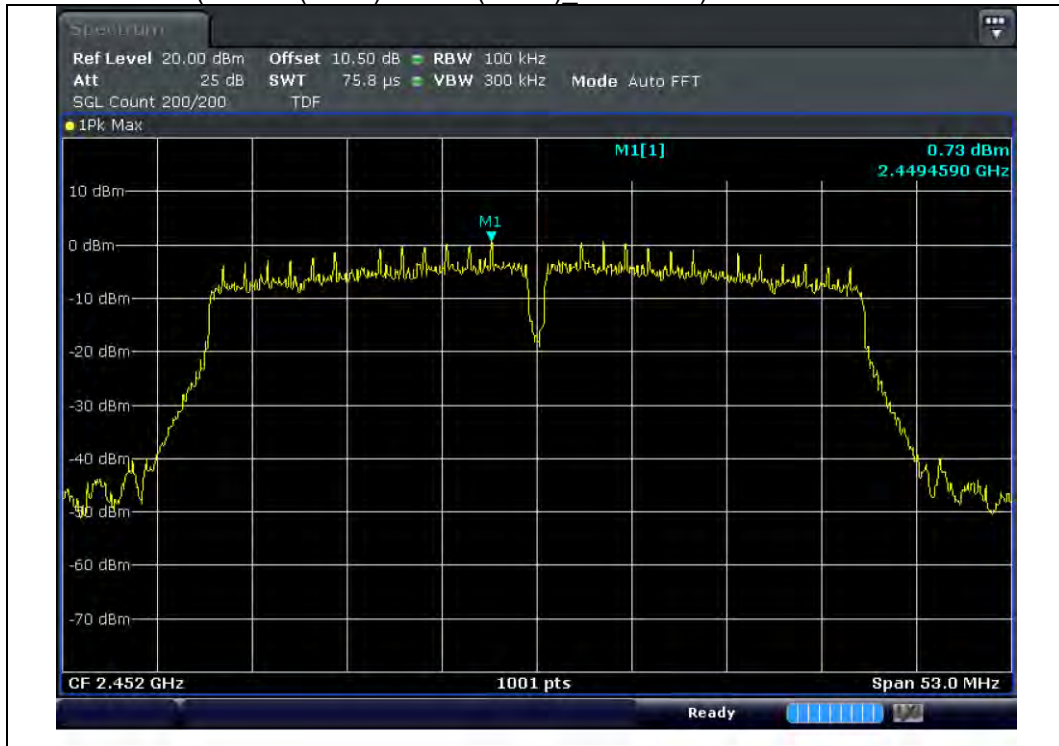
Test mode : Reference(802.11n(HT40) / MIMO(ANT1)_2437 MHz)



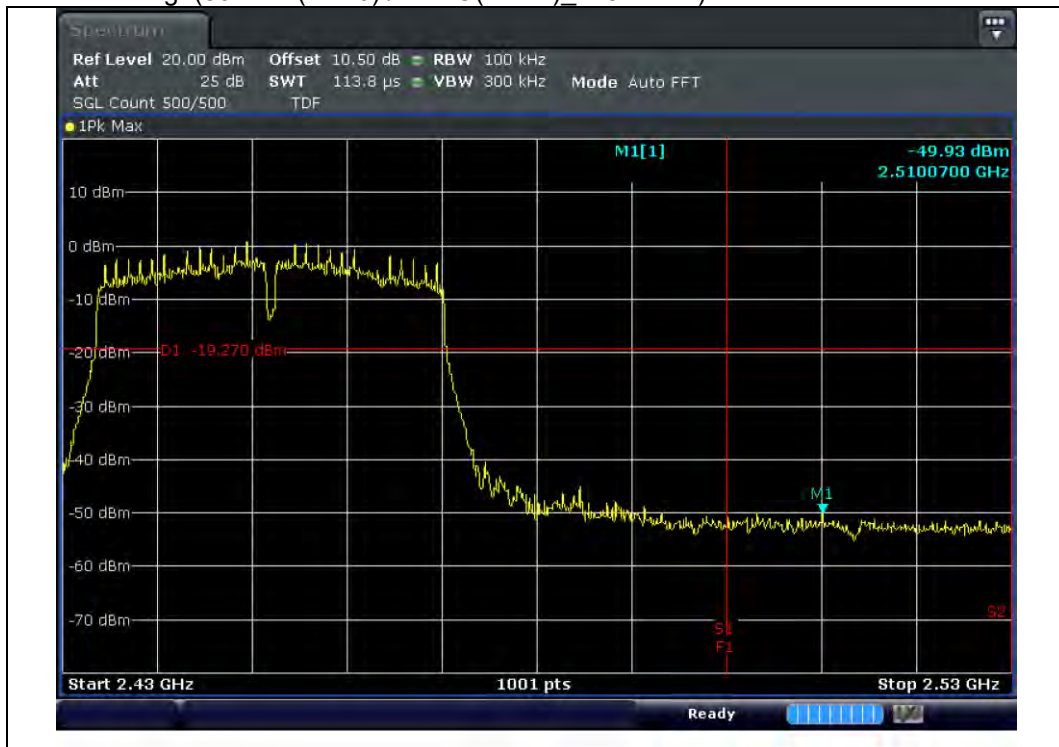
Test mode : Bandedge(802.11n(HT40) / MIMO(ANT1)_2437 MHz)



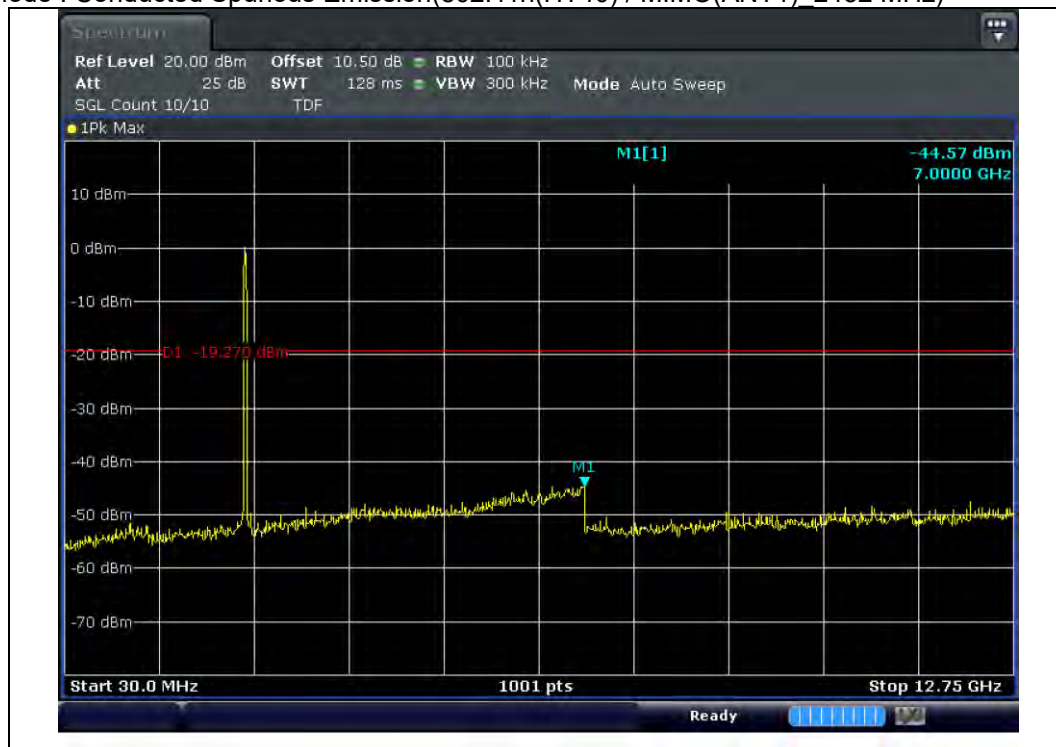
Test mode : Reference(802.11n(HT40) / MIMO(ANT1)_ 2452 MHz)



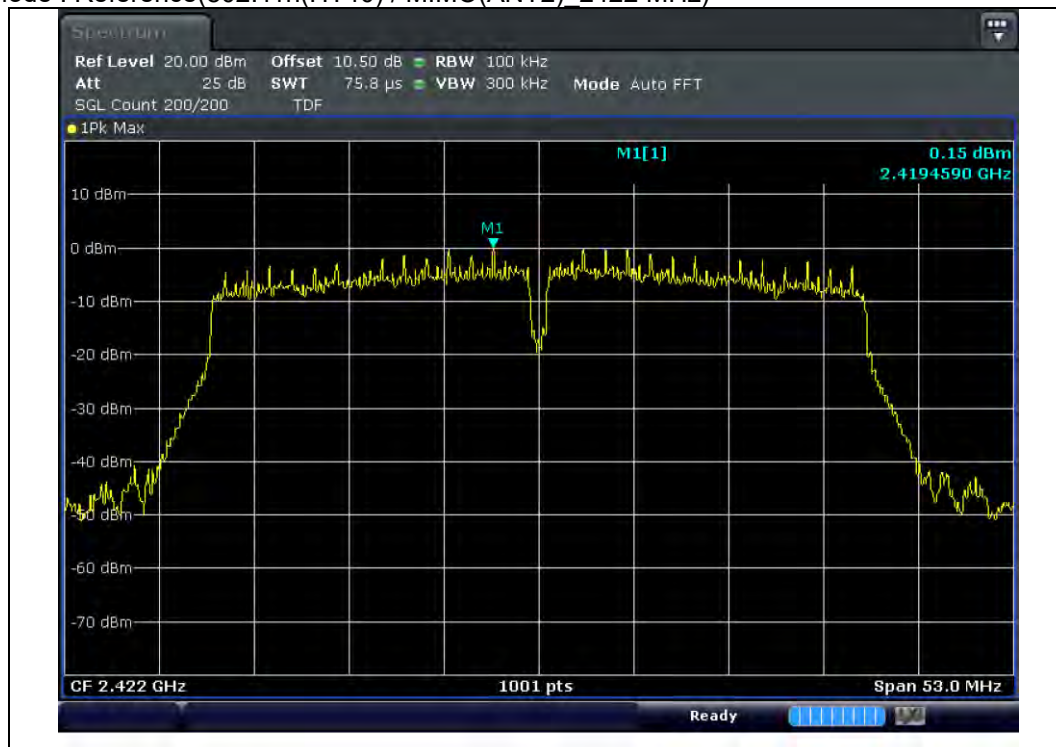
Test mode : Bandedge(802.11n(HT40) / MIMO(ANT1)_ 2452 MHz)



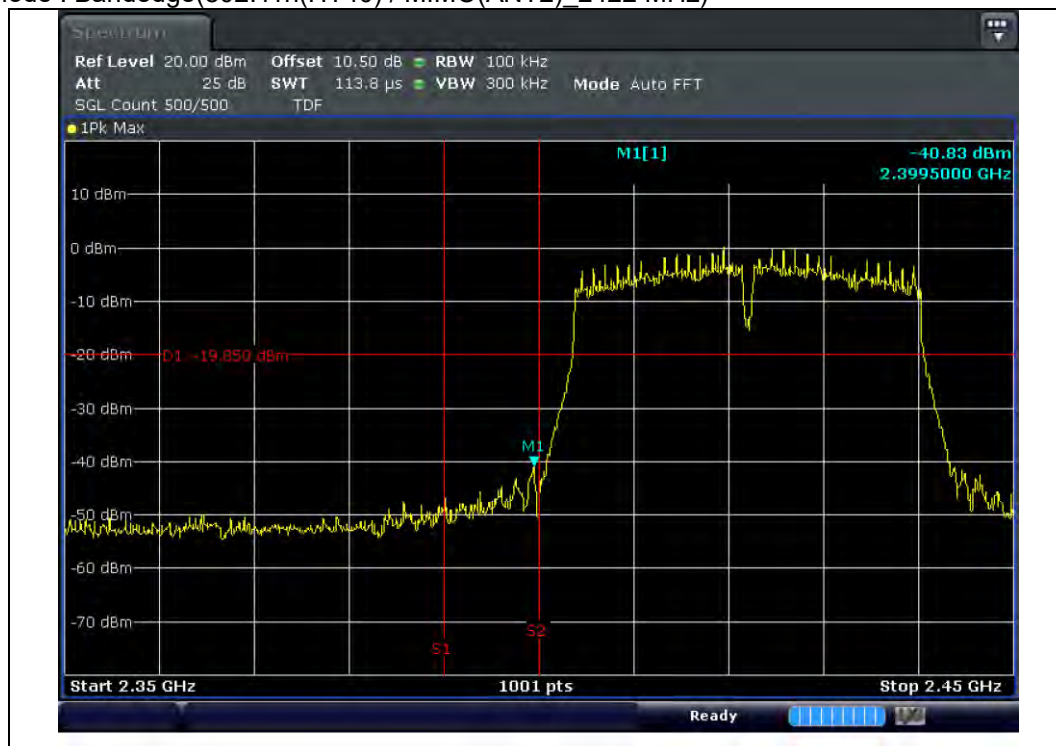
Test mode : Conducted Spurious Emission(802.11n(HT40) / MIMO(ANT1) 2452 MHz)



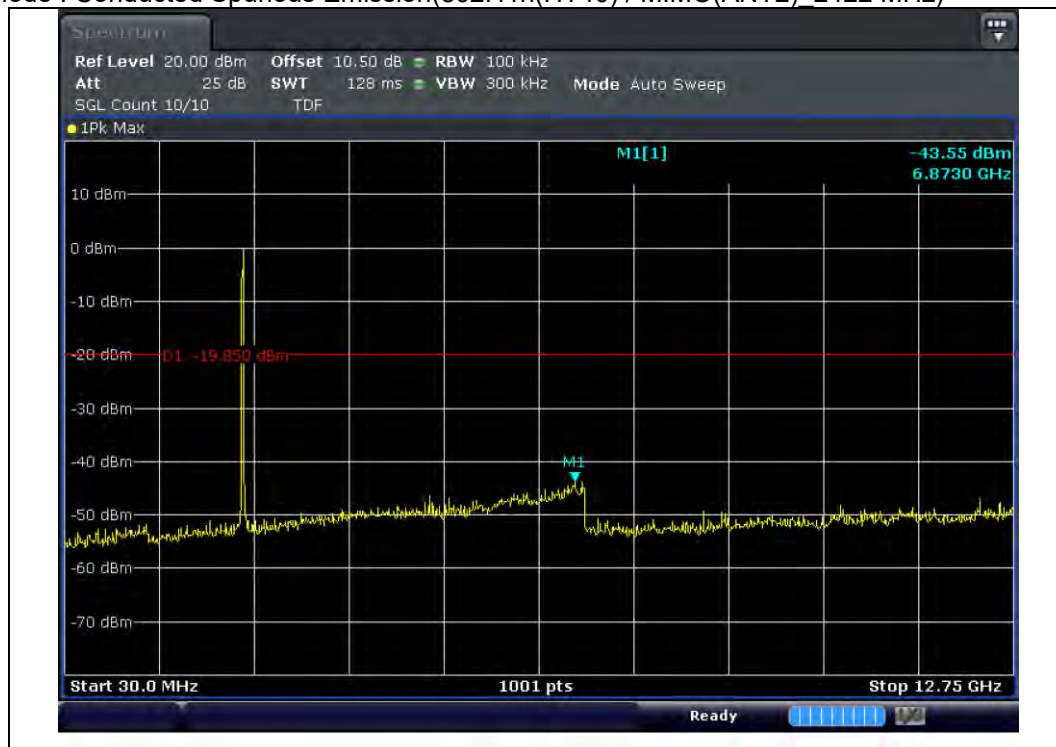
Test mode : Reference(802.11n(HT40) / MIMO(ANT2)_2422 MHz)



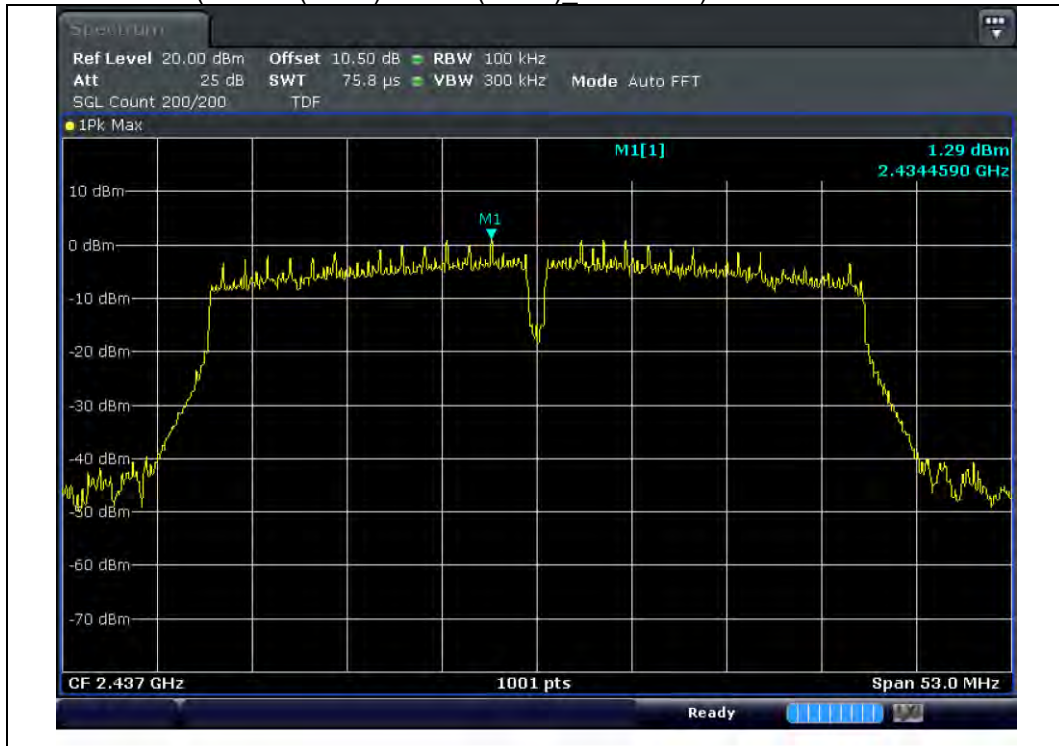
Test mode : Bandedge(802.11n(HT40) / MIMO(ANT2)_2422 MHz)



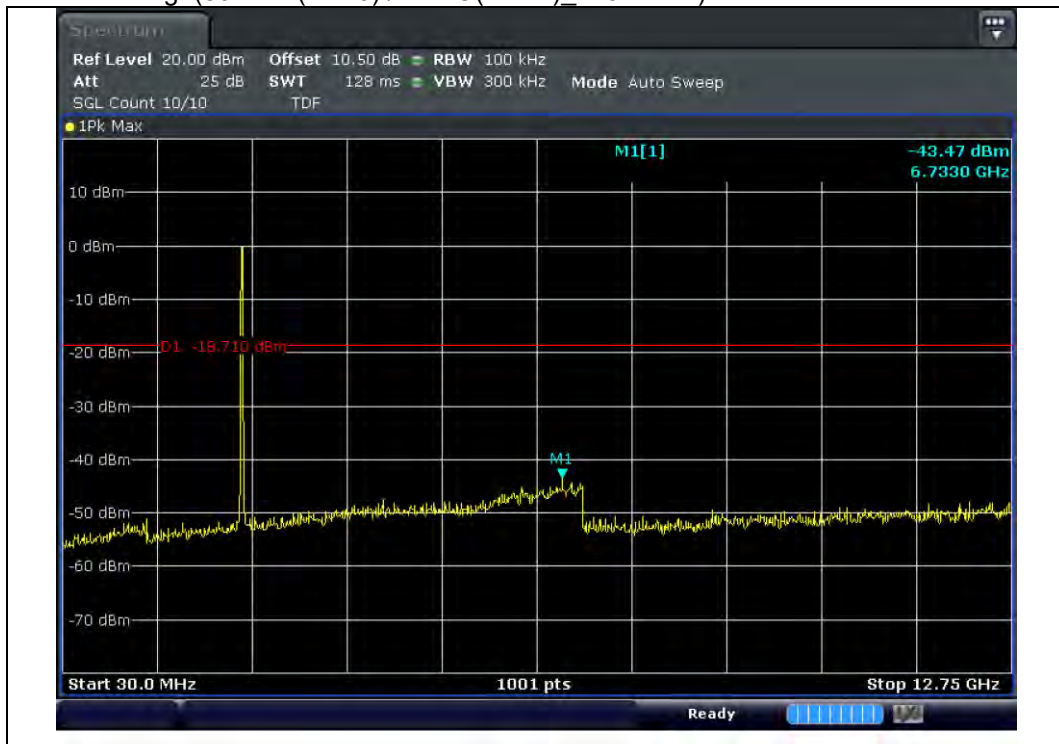
Test mode : Conducted Spurious Emission(802.11n(HT40) / MIMO(ANT2) 2422 MHz)



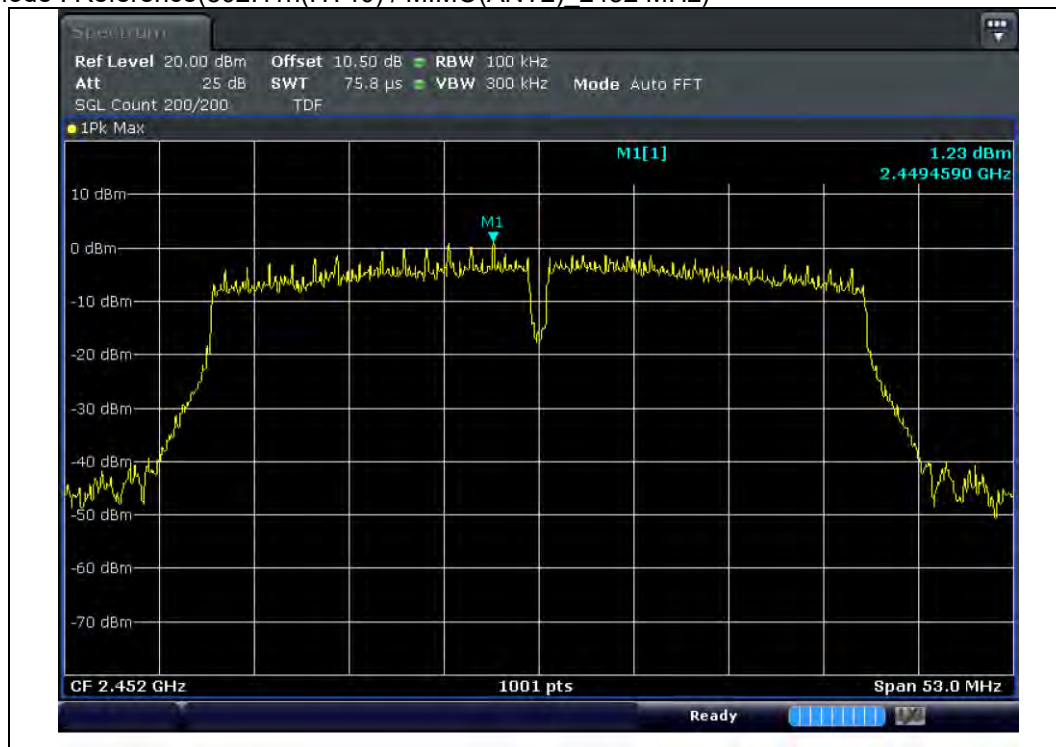
Test mode : Reference(802.11n(HT40) / MIMO(ANT2)_2437 MHz)



Test mode : Bandedge(802.11n(HT40) / MIMO(ANT2)_2437 MHz)



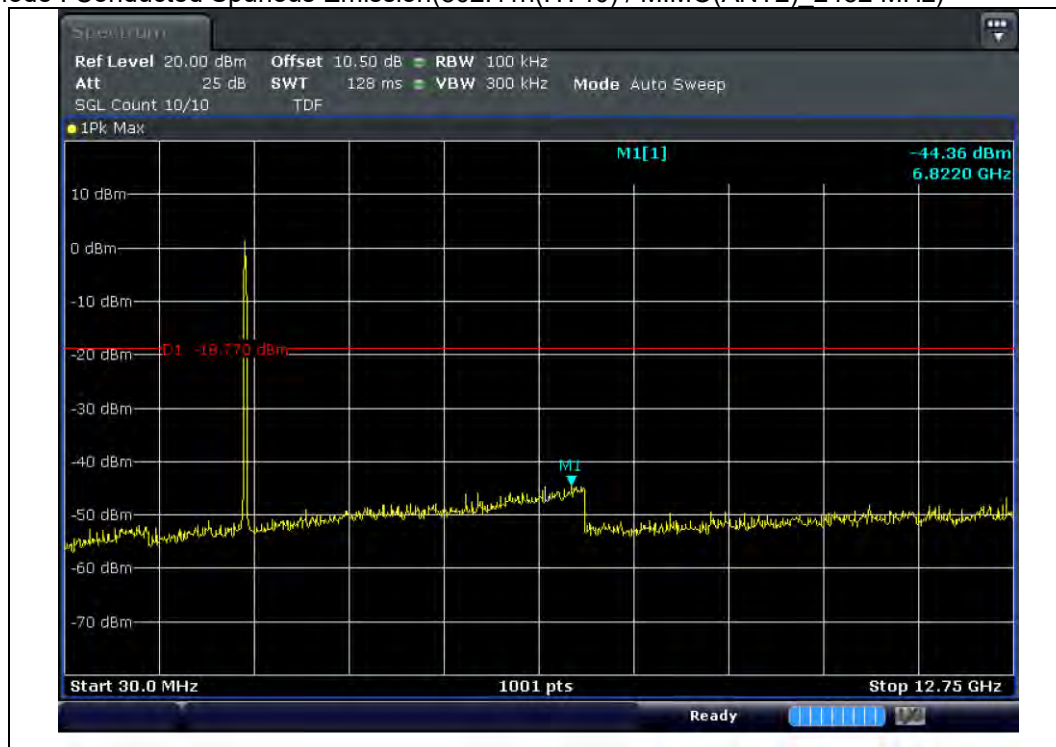
Test mode : Reference(802.11n(HT40) / MIMO(ANT2)_2452 MHz)



Test mode : Bandedge(802.11n(HT40) / MIMO(ANT2)_2452 MHz)



Test mode : Conducted Spurious Emission(802.11n(HT40) / MIMO(ANT2) 2452 MHz)



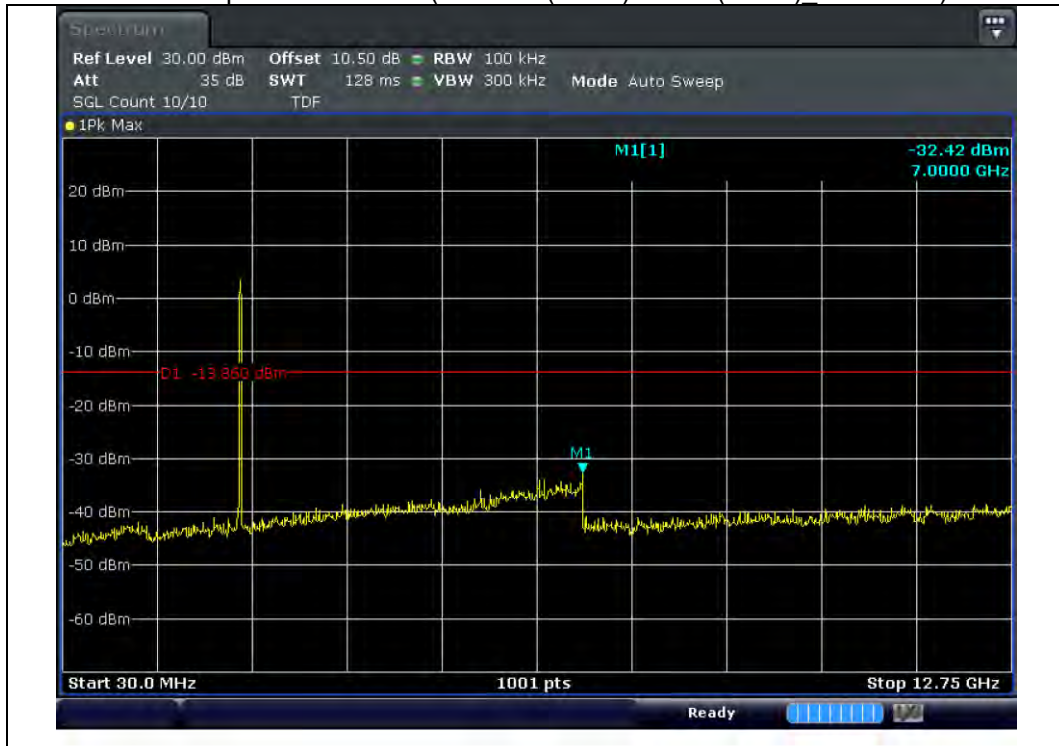
Test mode : Reference(802.11ax(HE20) / SISO(ANT1)_ 2412 MHz)



Test mode : Bandedge(802.11ax(HE20) / SISO(ANT1)_ 2412 MHz)



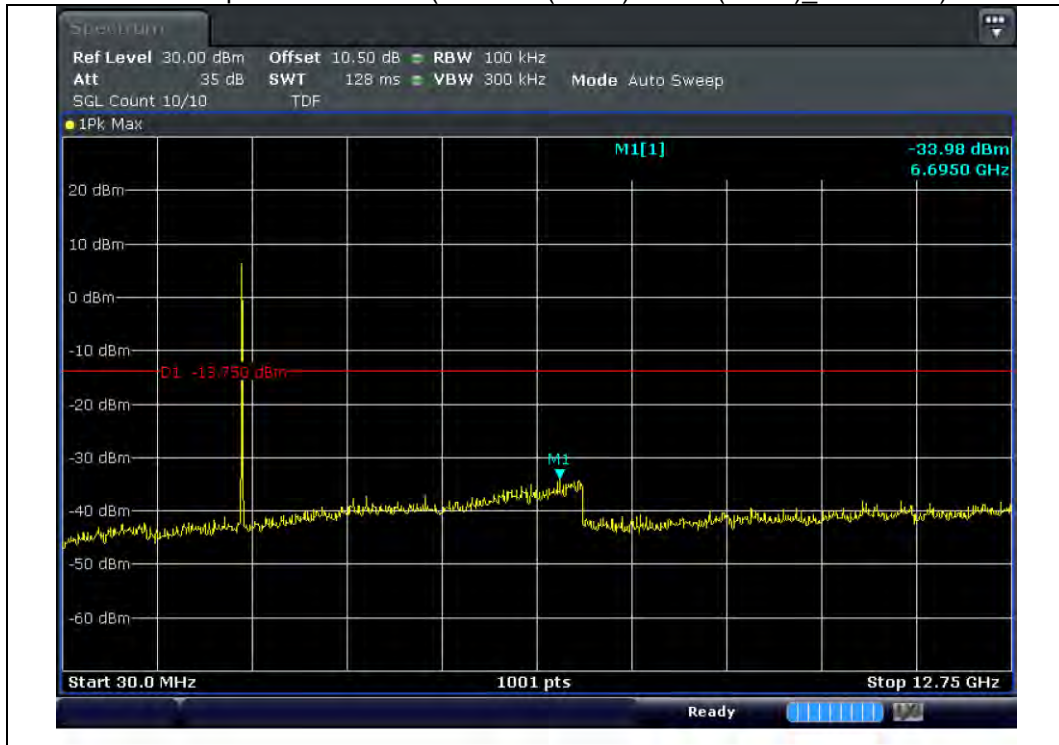
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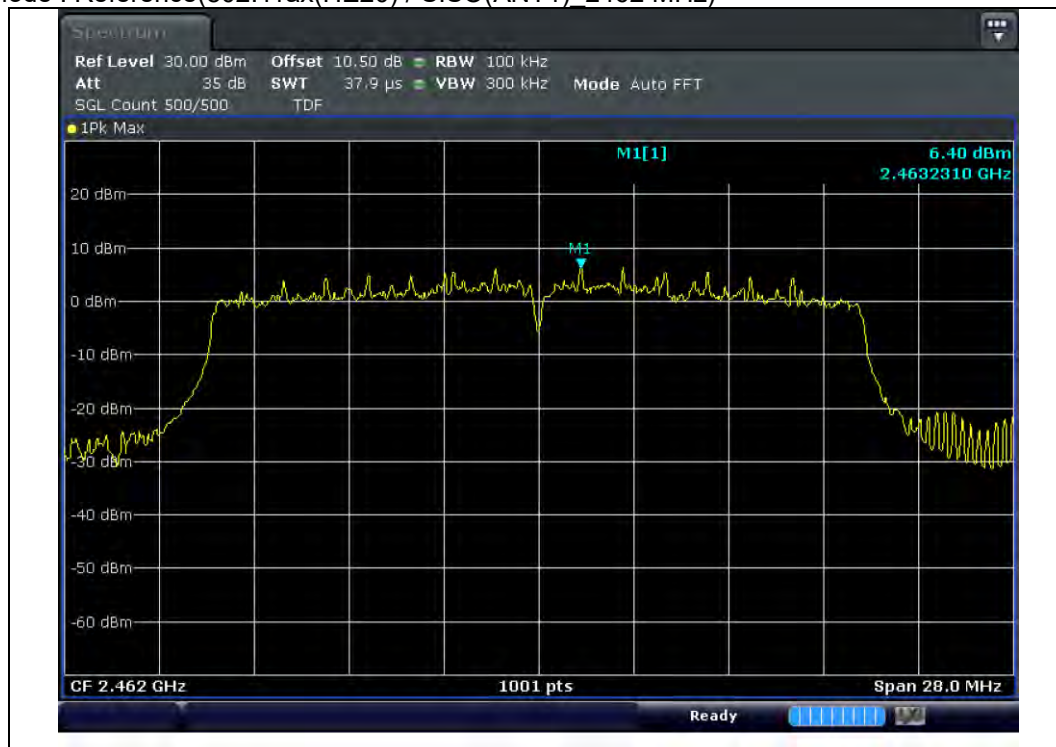
Test mode : Reference(802.11ax(HE20) / SISO(ANT1)_ 2437 MHz)



Test mode : Conducted Spurious Emission(802.11ax(HE20) / SISO(ANT1)_ 2437 MHz)



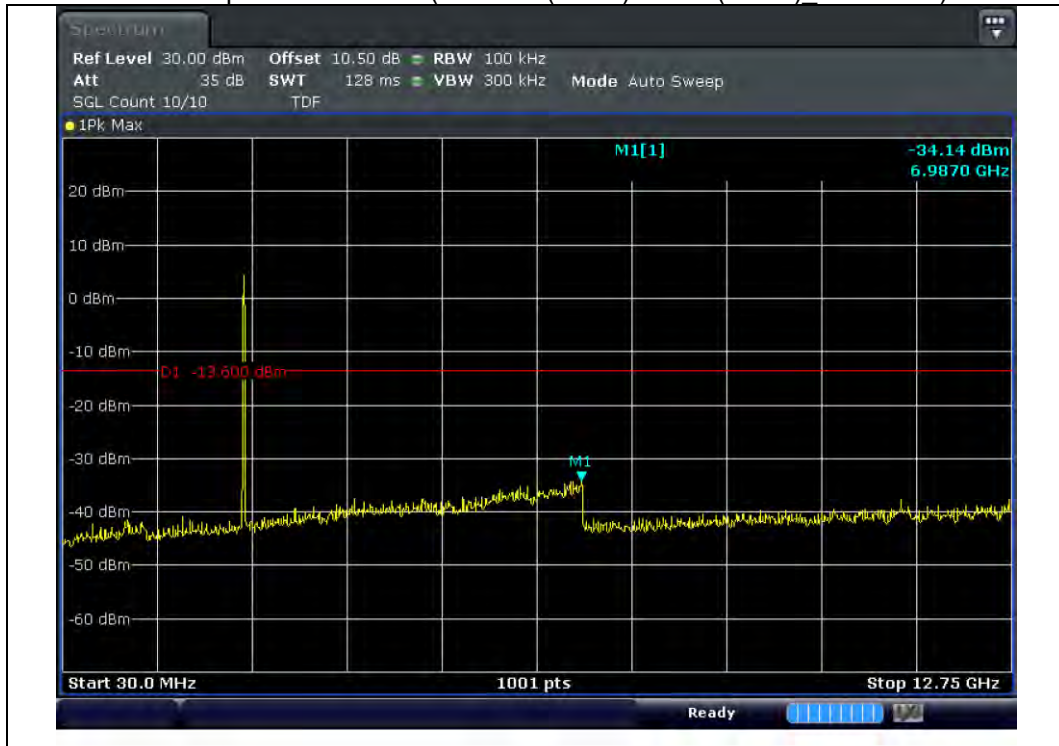
Test mode : Reference(802.11ax(HE20) / SISO(ANT1)_ 2462 MHz)



Test mode : Bandedge(802.11ax(HE20) / SISO(ANT1)_ 2462 MHz)



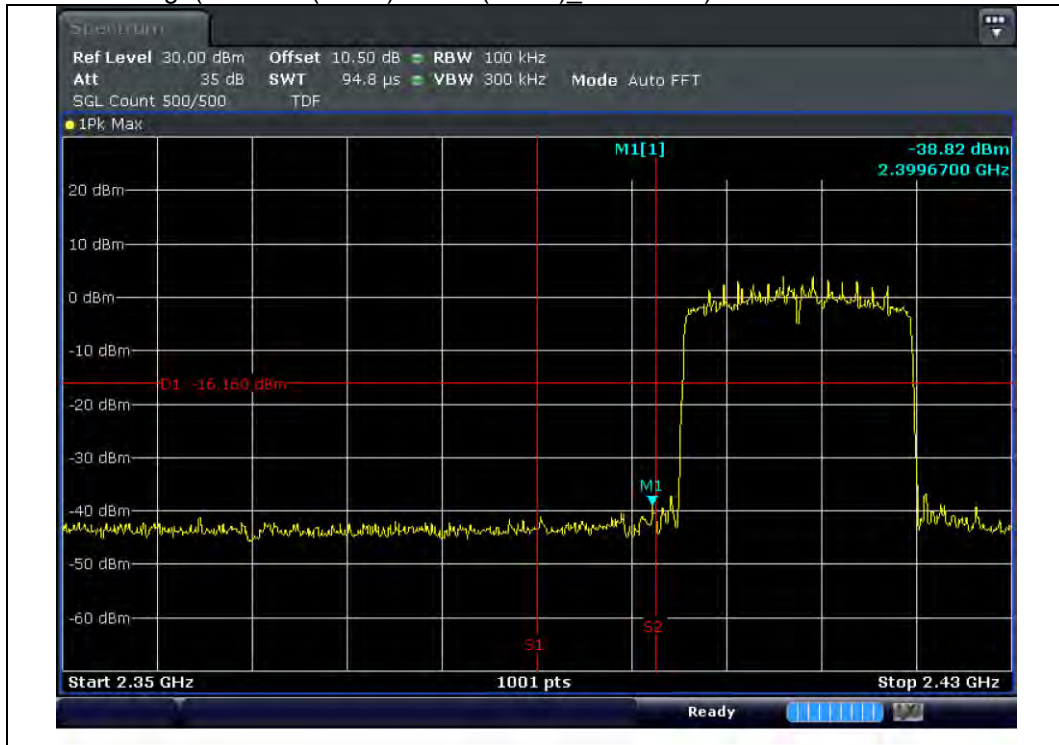
Test mode : Conducted Spurious Emission(802.11ax(HE20) / SISO(ANT1)_ 2462 MHz)



Test mode : Reference(802.11ax(HE20) / SISO(ANT2)_ 2412 MHz)



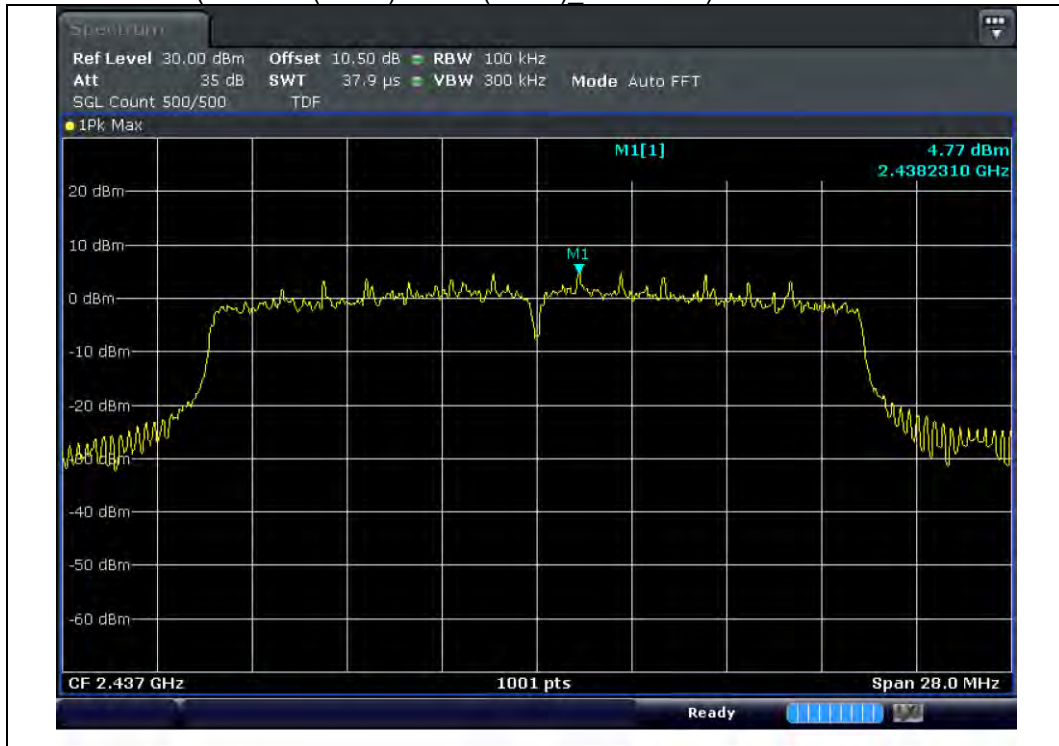
Test mode : Bandedge(802.11ax(HE20) / SISO(ANT2)_ 2412 MHz)



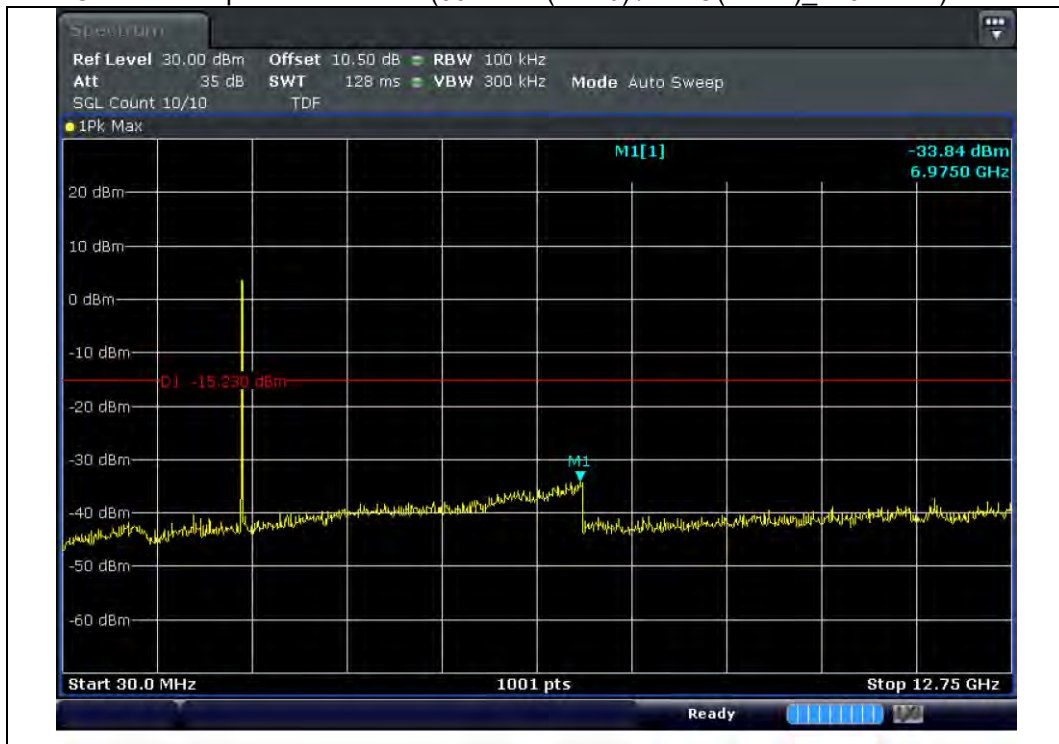
Test mode : Conducted Spurious Emission(802.11ax(HE20) / SISO(ANT2)_ 2412 MHz)



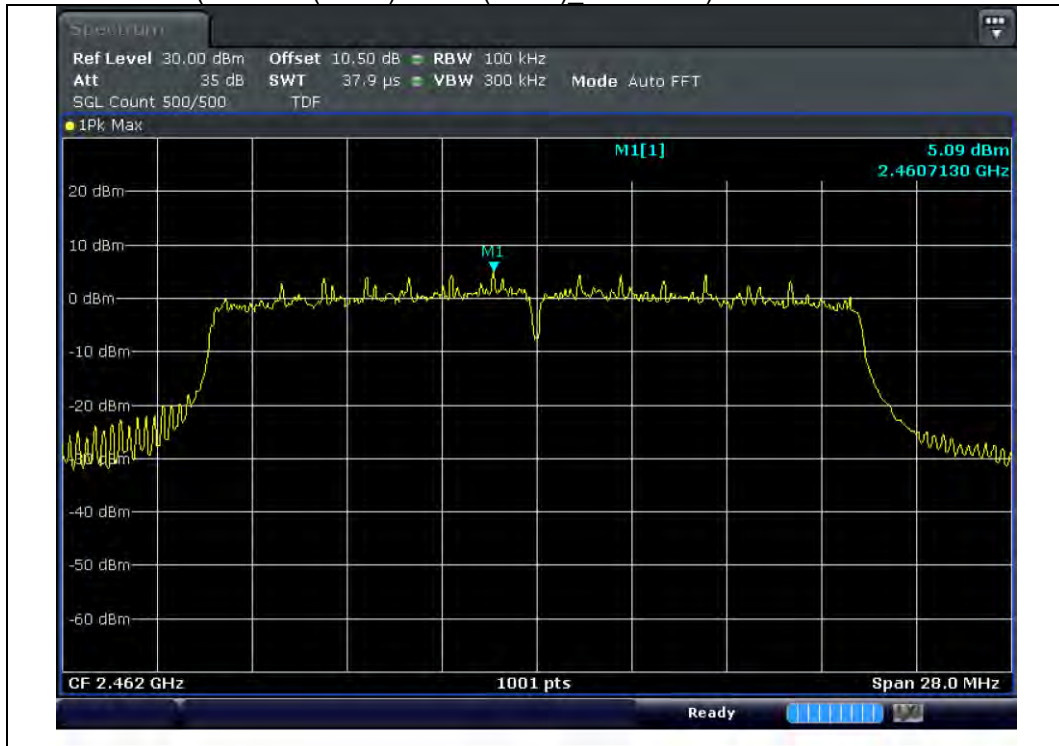
Test mode : Reference(802.11ax(HE20) / SISO(ANT2)_ 2437 MHz)



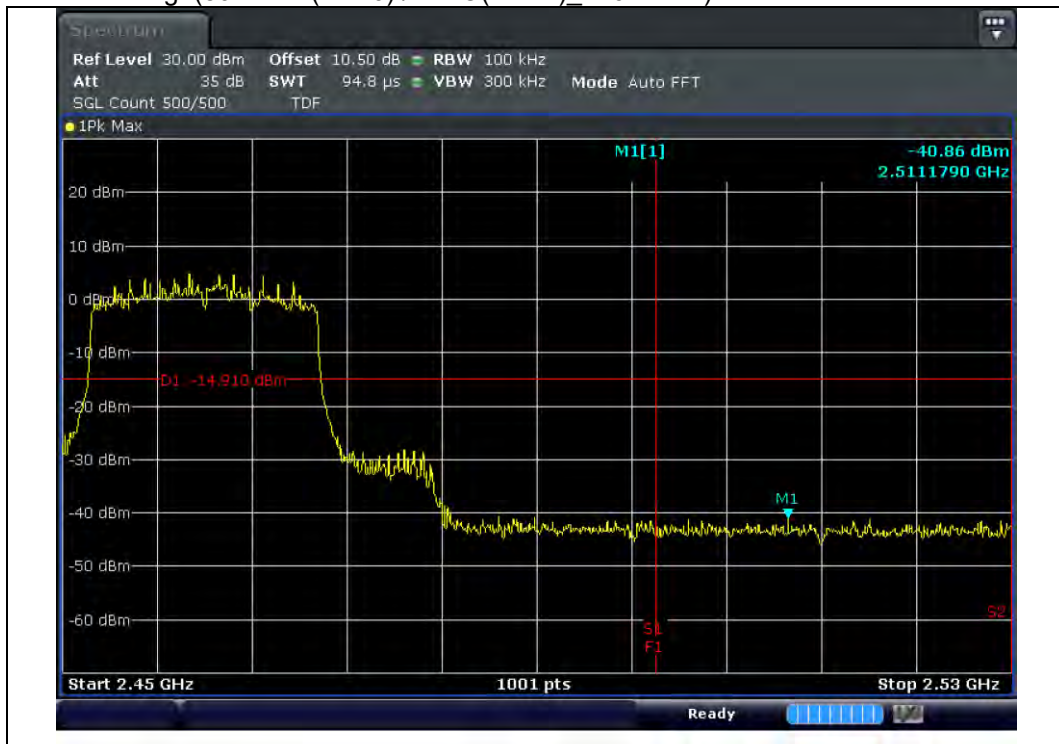
Test mode : Conducted Spurious Emission(802.11ax(HE20) / SISO(ANT2)_ 2437 MHz)



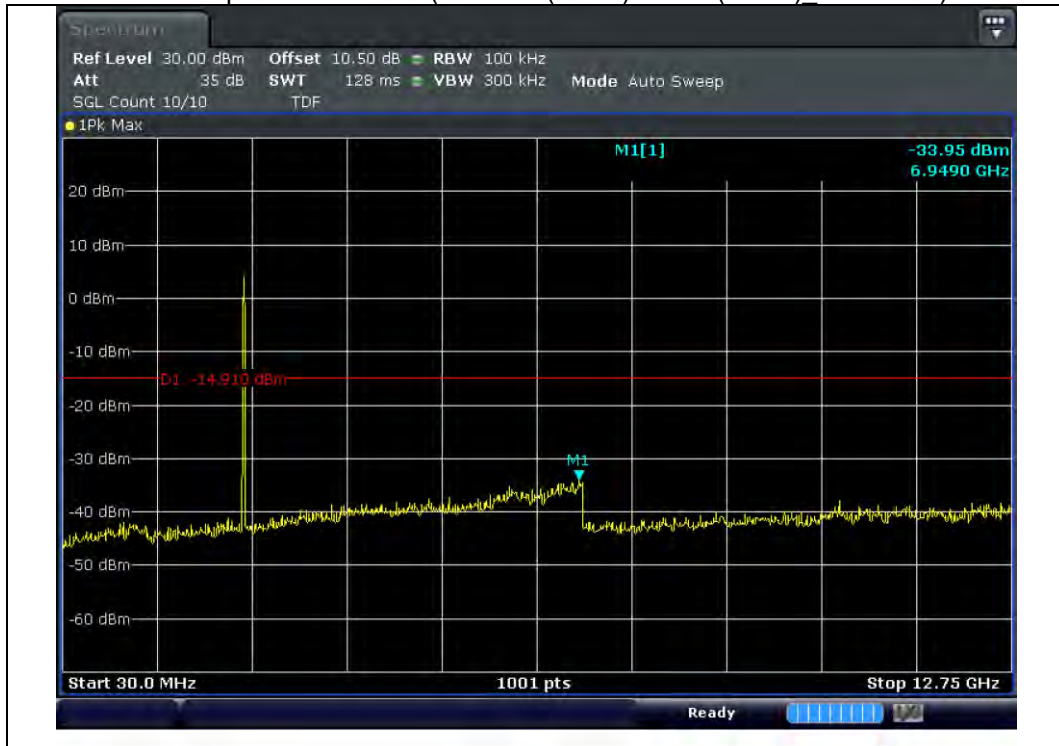
Test mode : Reference(802.11ax(HE20) / SISO(ANT2)_2462 MHz)



Test mode : Bandedge(802.11ax(HE20) / SISO(ANT2)_2462 MHz)



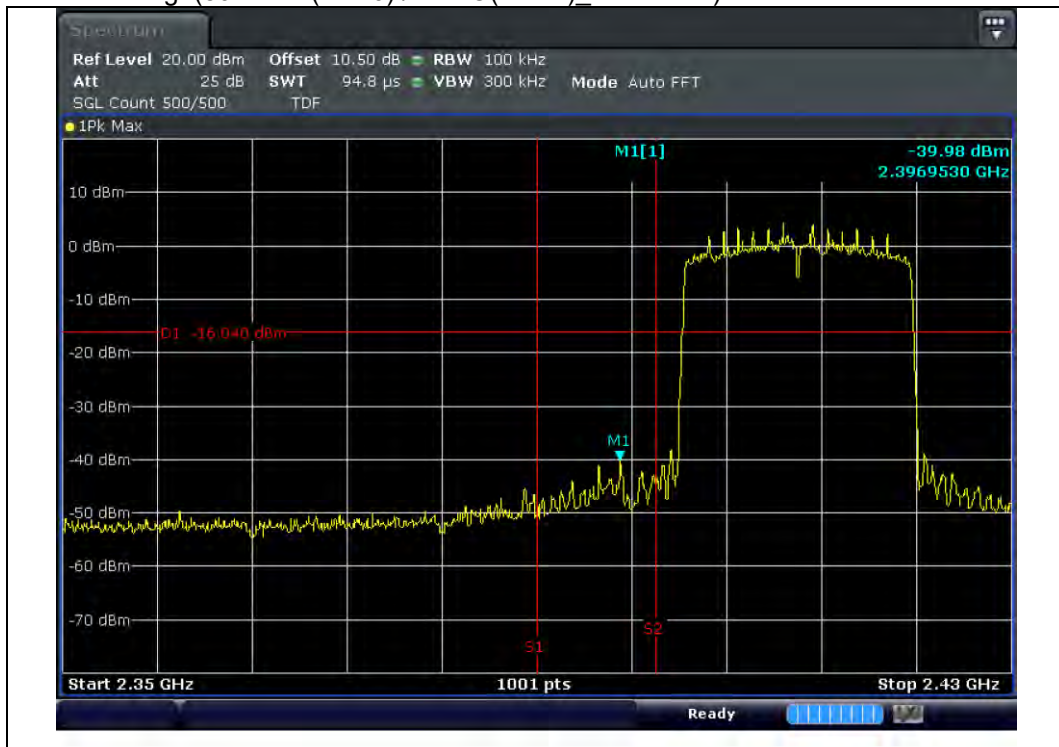
Test mode : Conducted Spurious Emission(802.11ax(HE20) / SISO(ANT2)_2462 MHz)



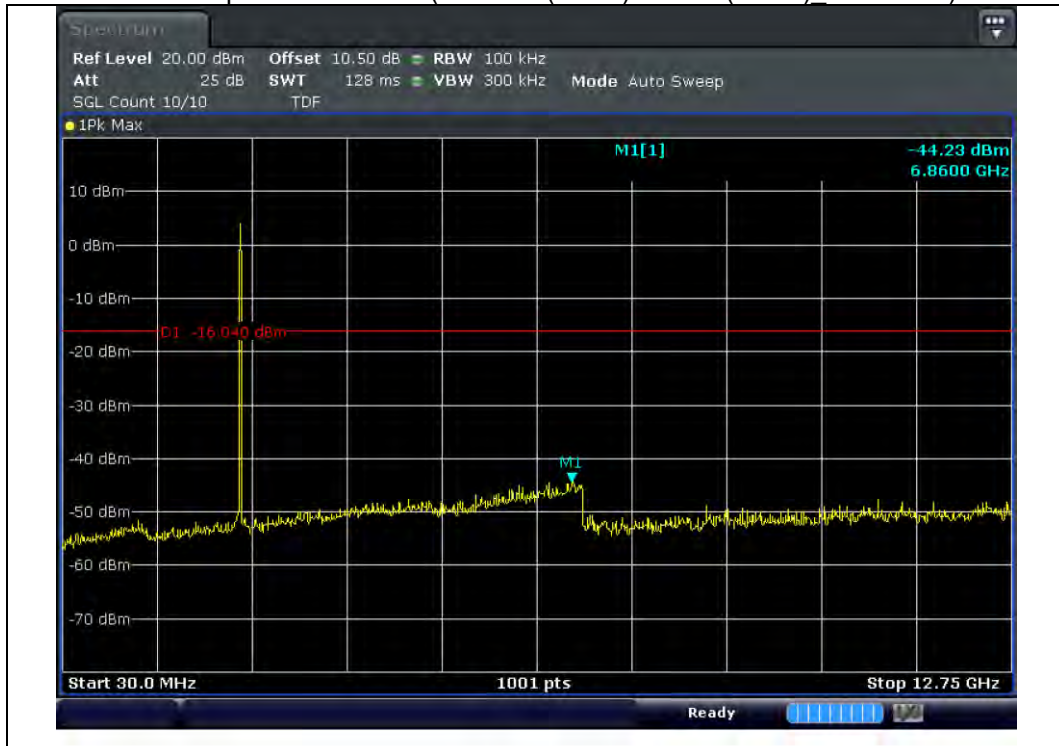
Test mode : Reference(802.11ax(HE20) / MIMO(ANT1)_ 2412 MHz)



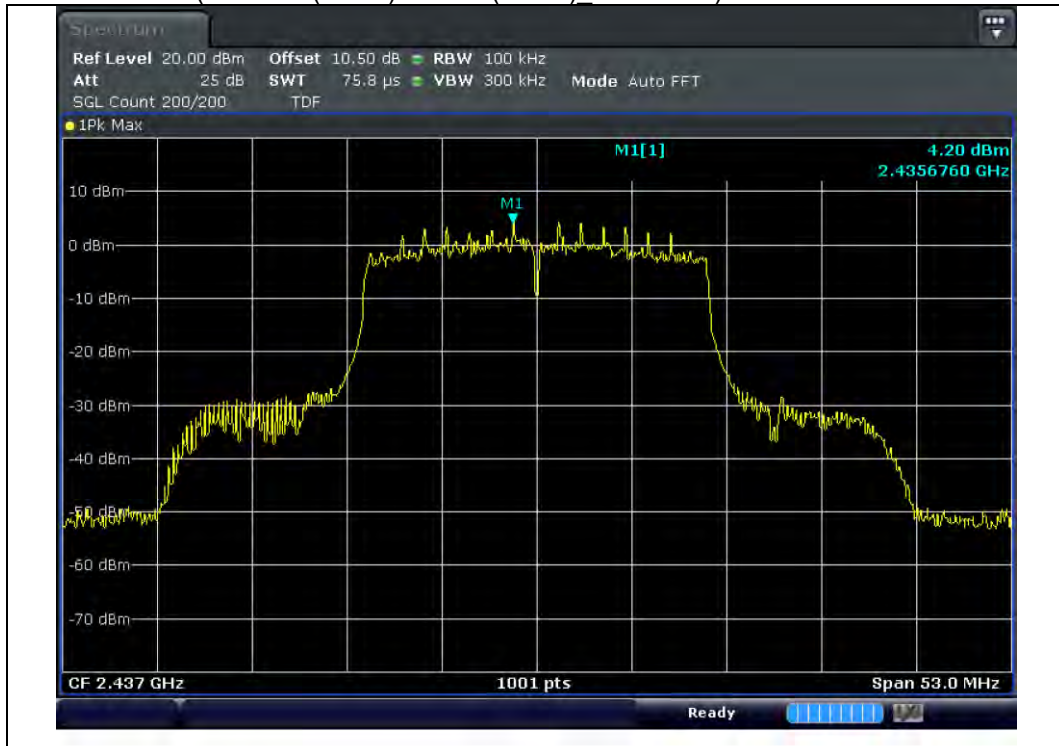
Test mode : Bandedge(802.11ax(HE20) / MIMO(ANT1)_ 2412 MHz)



Test mode : Conducted Spurious Emission(802.11ax(HE20) / MIMO(ANT1) 2412 MHz)



Test mode : Reference(802.11ax(HE20) / MIMO(ANT1) 2437 MHz)



Test mode : Conducted Spurious Emission(802.11ax(HE20) / MIMO(ANT1) 2437 MHz)



Test mode : Reference(802.11ax(HE20) / MIMO(ANT1) _2462 MHz)



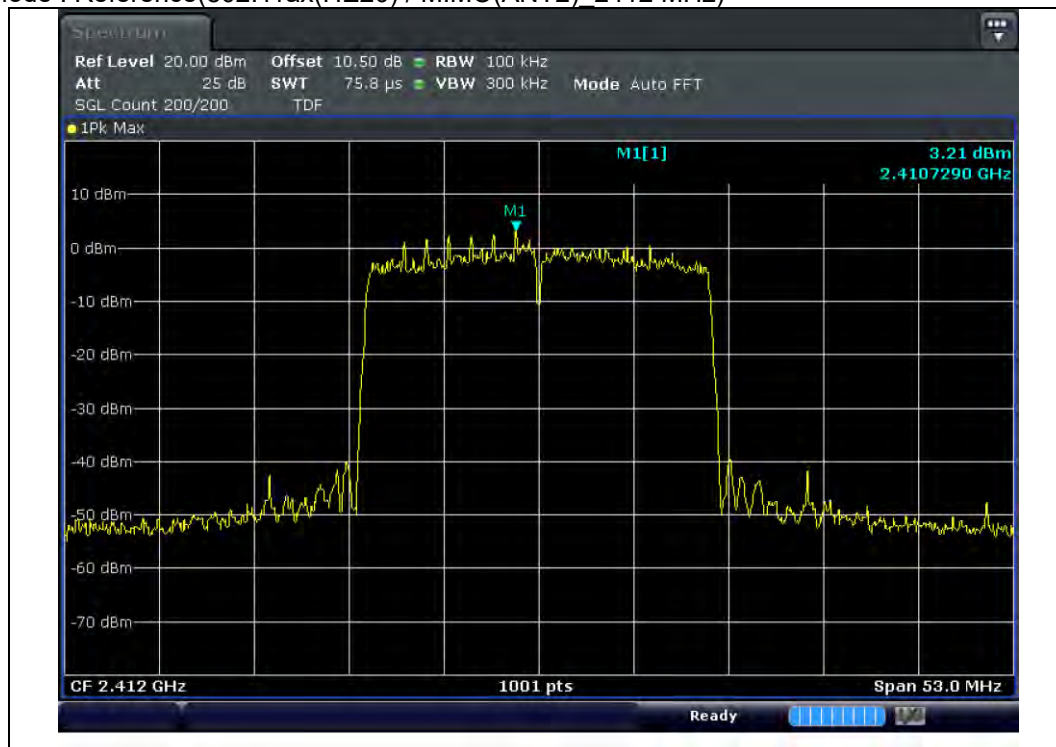
Test mode : Bandedge(802.11ax(HE20) / MIMO(ANT1) _2462 MHz)



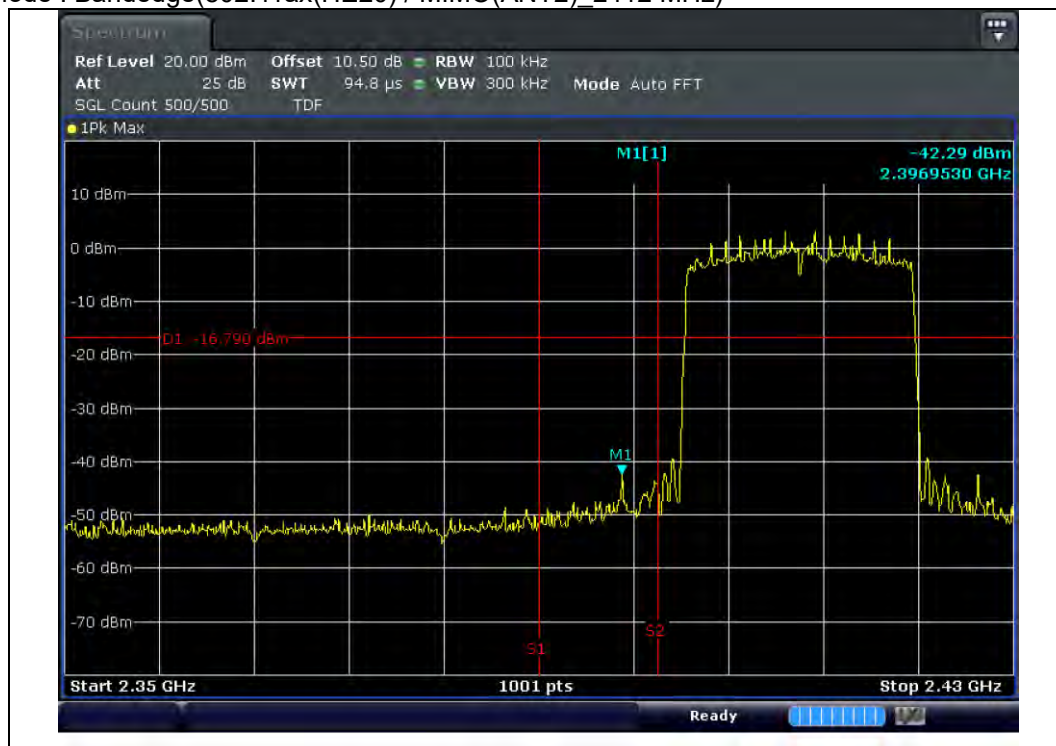
Test mode : Conducted Spurious Emission(802.11ax(HE20) / MIMO(ANT1) 2462 MHz)



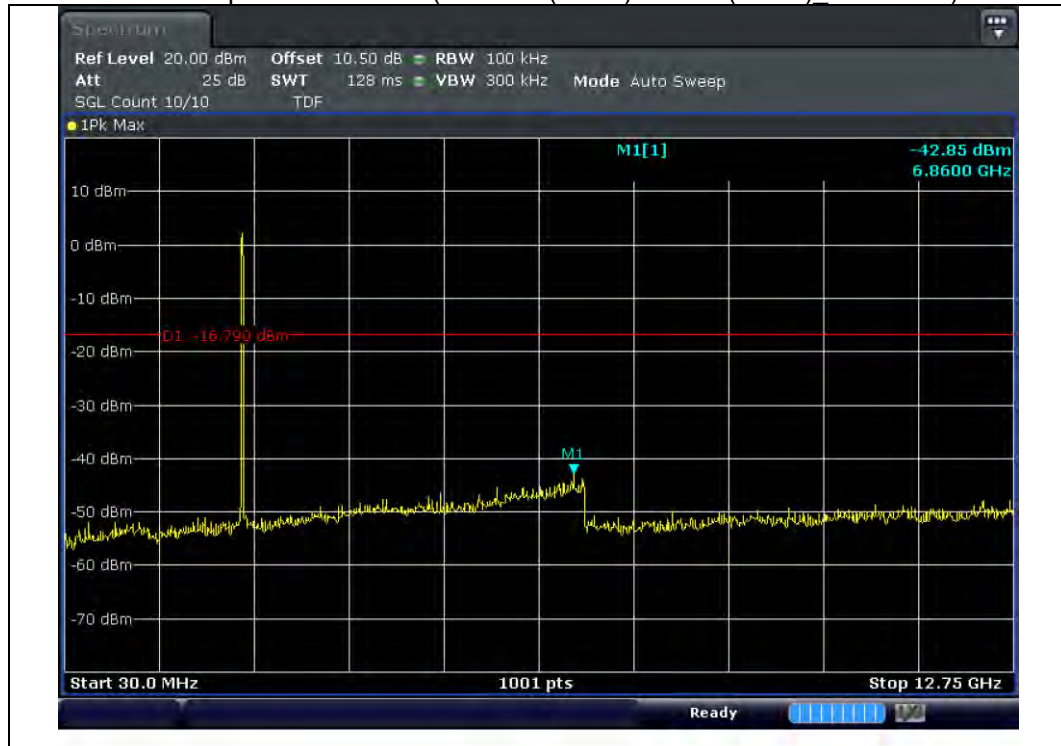
Test mode : Reference(802.11ax(HE20) / MIMO(ANT2)_2412 MHz)



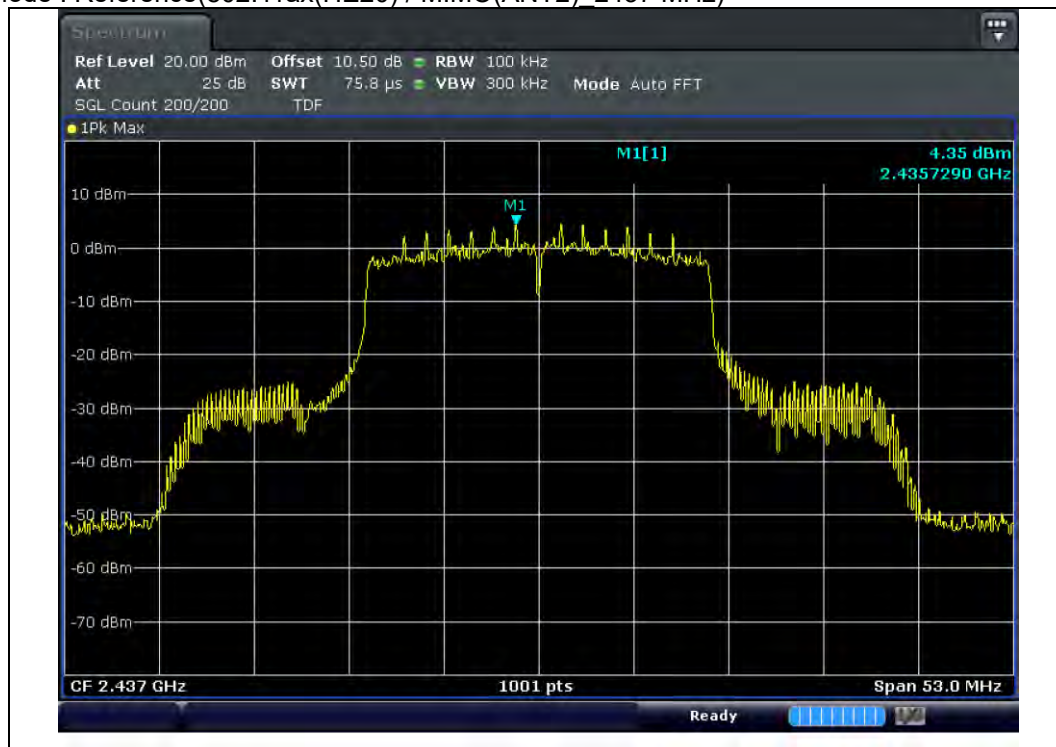
Test mode : Bandedge(802.11ax(HE20) / MIMO(ANT2)_2412 MHz)



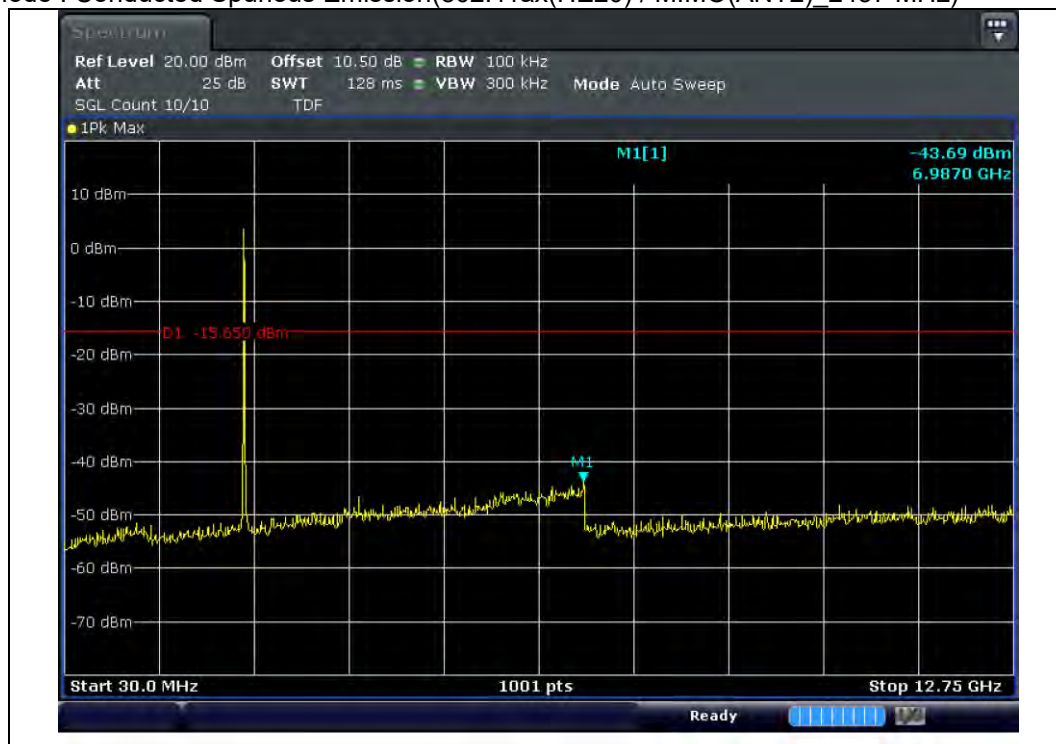
Test mode : Conducted Spurious Emission(802.11ax(HE20) / MIMO(ANT2) 2412 MHz)



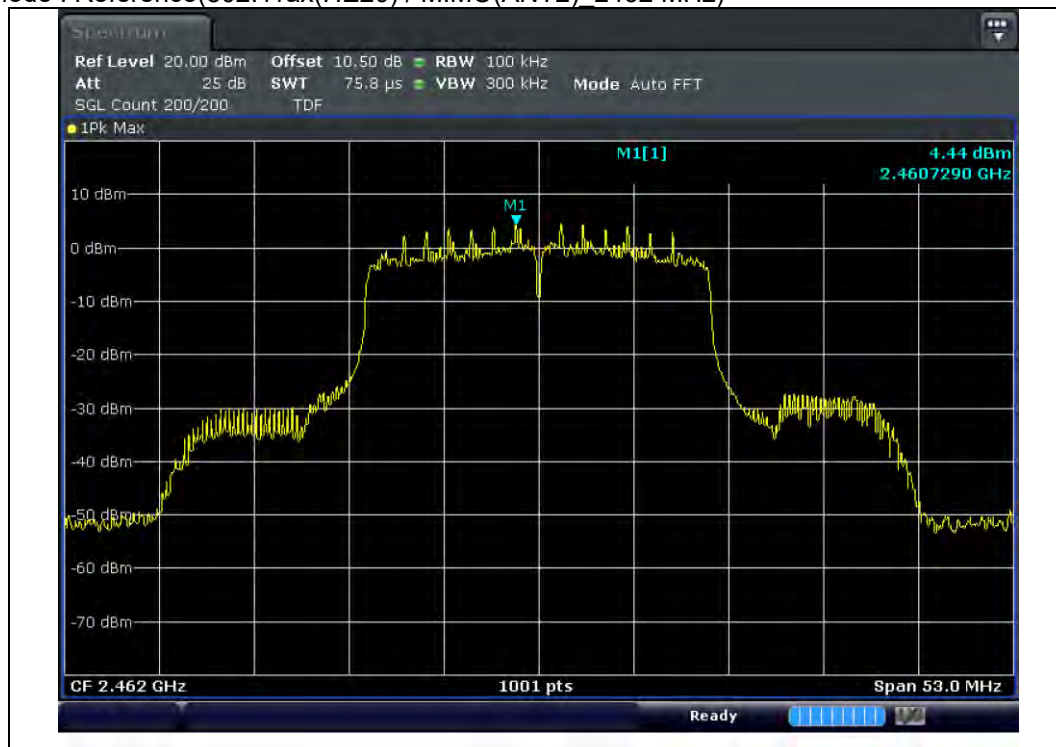
Test mode : Reference(802.11ax(HE20) / MIMO(ANT2) 2437 MHz)



Test mode : Conducted Spurious Emission(802.11ax(HE20) / MIMO(ANT2)_2437 MHz)



Test mode : Reference(802.11ax(HE20) / MIMO(ANT2) _2462 MHz)



Test mode : Bandedge(802.11ax(HE20) / MIMO(ANT2) _2462 MHz)



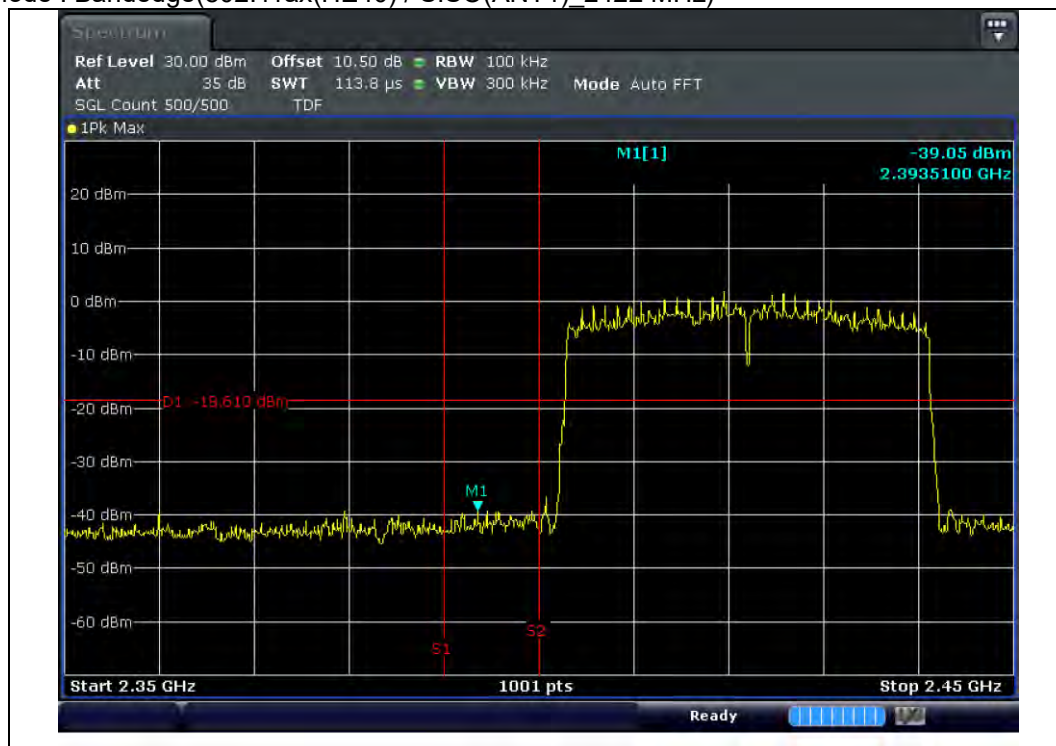
Test mode : Conducted Spurious Emission(802.11ax(HE20) / MIMO(ANT2) 2462 MHz)



Test mode : Reference(802.11ax(HE40) / SISO(ANT1)_ 2422 MHz)



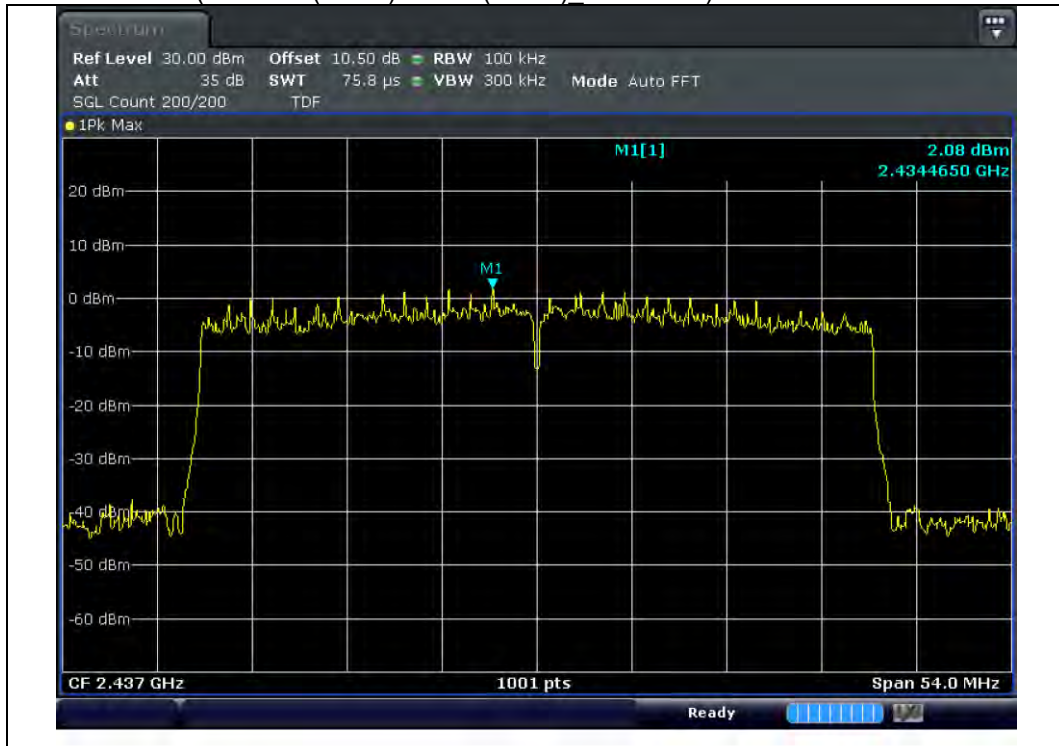
Test mode : Bandedge(802.11ax(HE40) / SISO(ANT1)_ 2422 MHz)



Test mode : Conducted Spurious Emission(802.11ax(HE40) / SISO(ANT1)_ 2422 MHz)



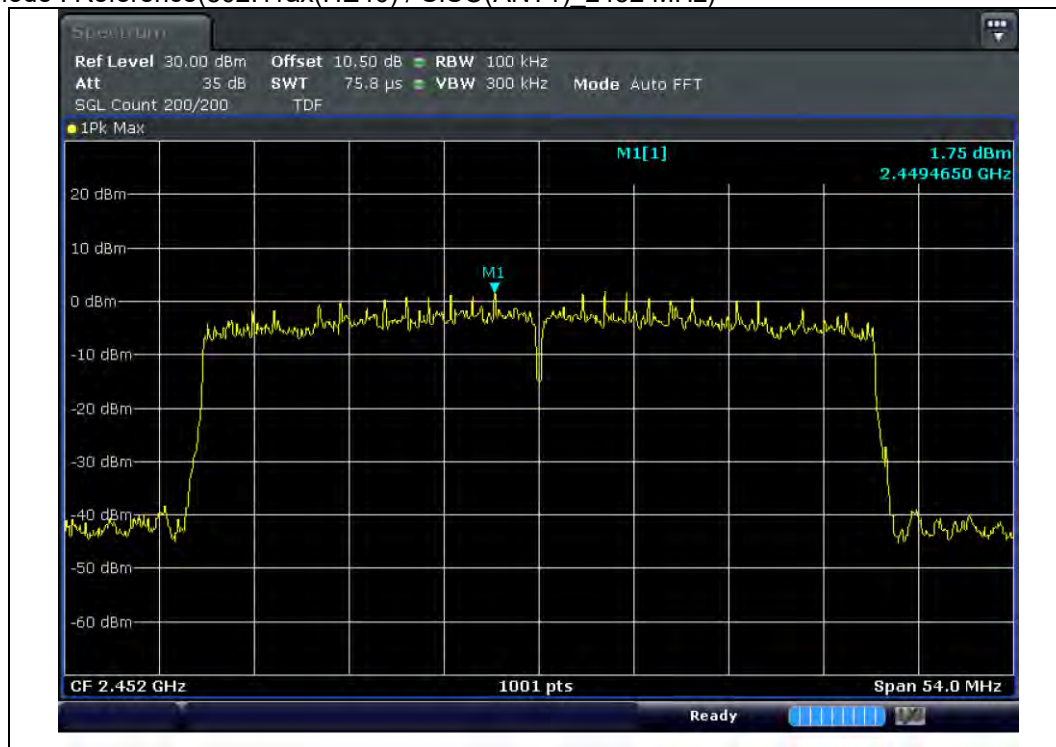
Test mode : Reference(802.11ax(HE40) / SISO(ANT1)_ 2437 MHz)



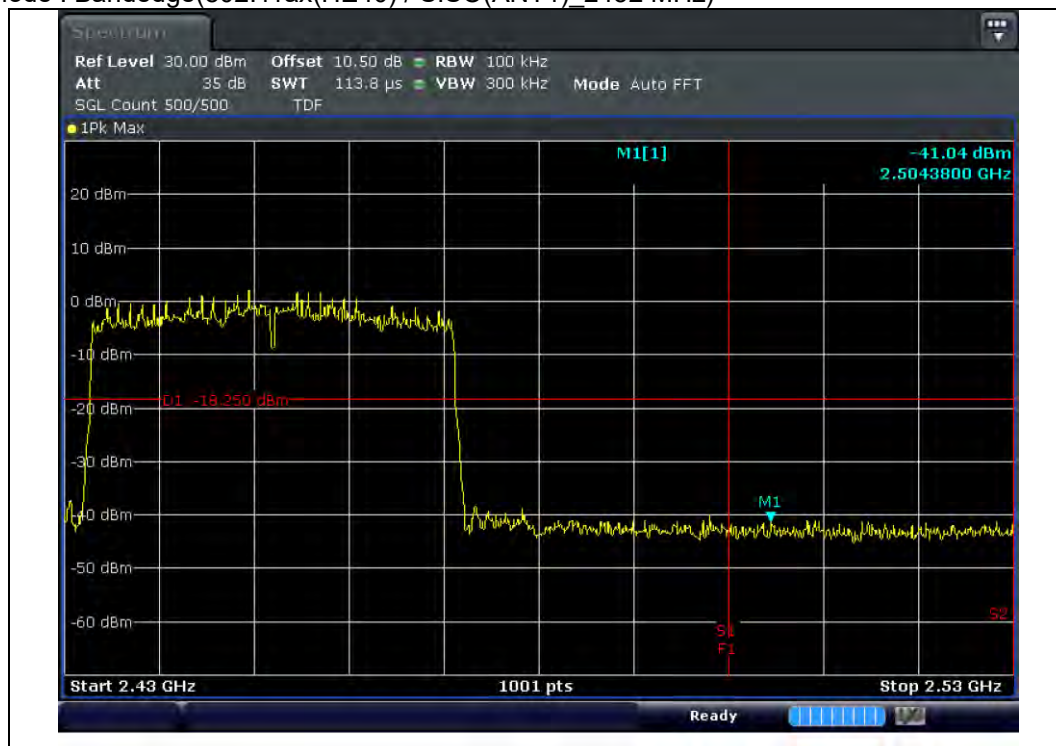
Test mode : Bandedge(802.11ax(HE40) / SISO(ANT1)_ 2437 MHz)



Test mode : Reference(802.11ax(HE40) / SISO(ANT1)_ 2452 MHz)



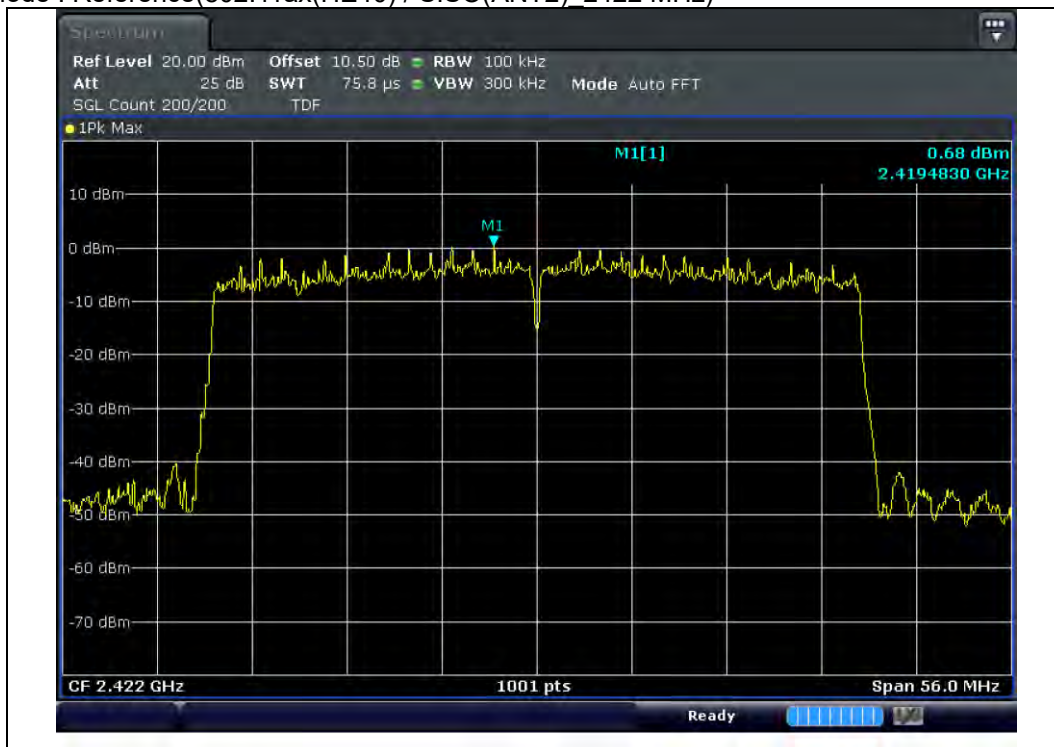
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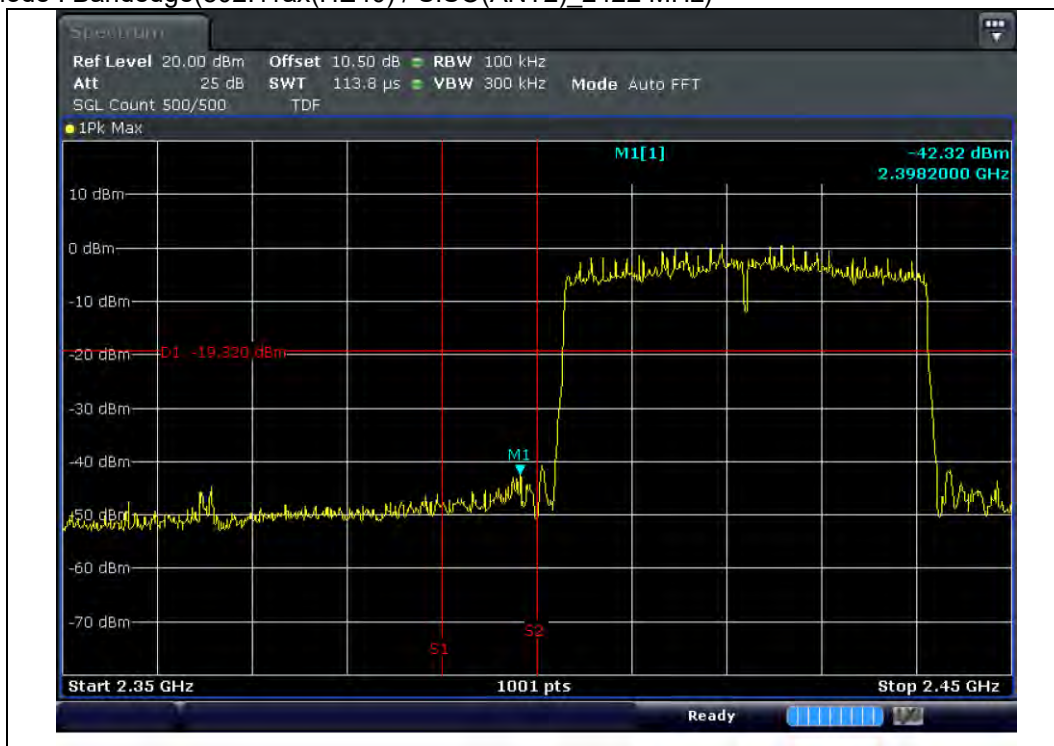
Test mode : Conducted Spurious Emission(802.11ax(HE40) / SISO(ANT1)_ 2452 MHz)



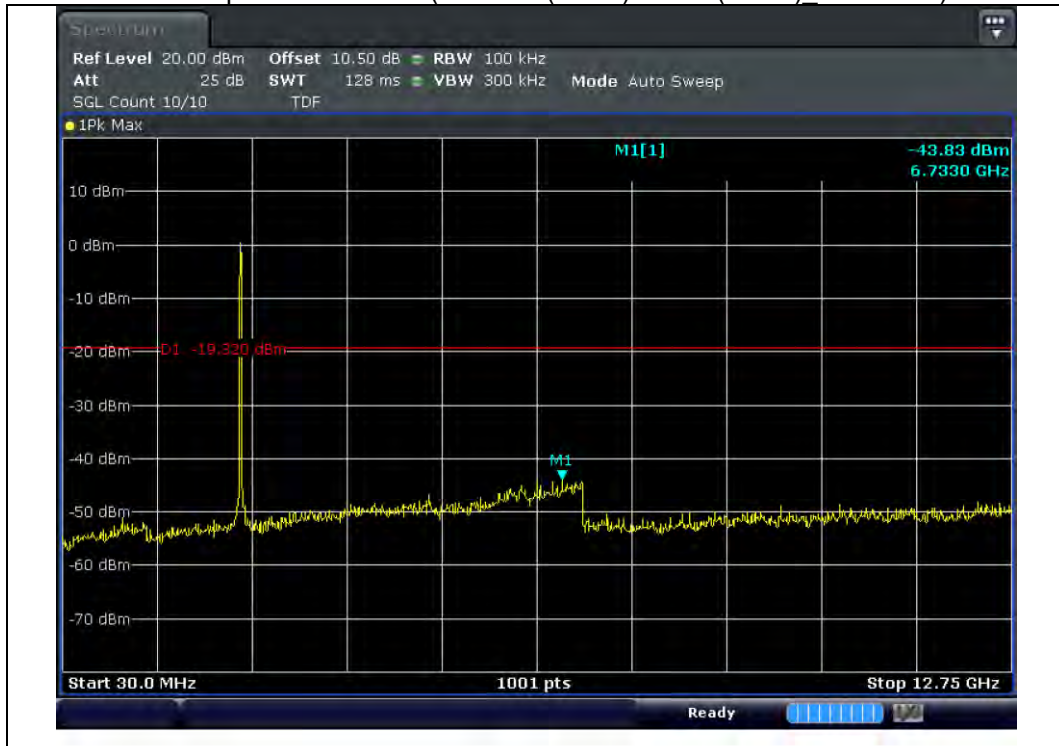
Test mode : Reference(802.11ax(HE40) / SISO(ANT2)_ 2422 MHz)



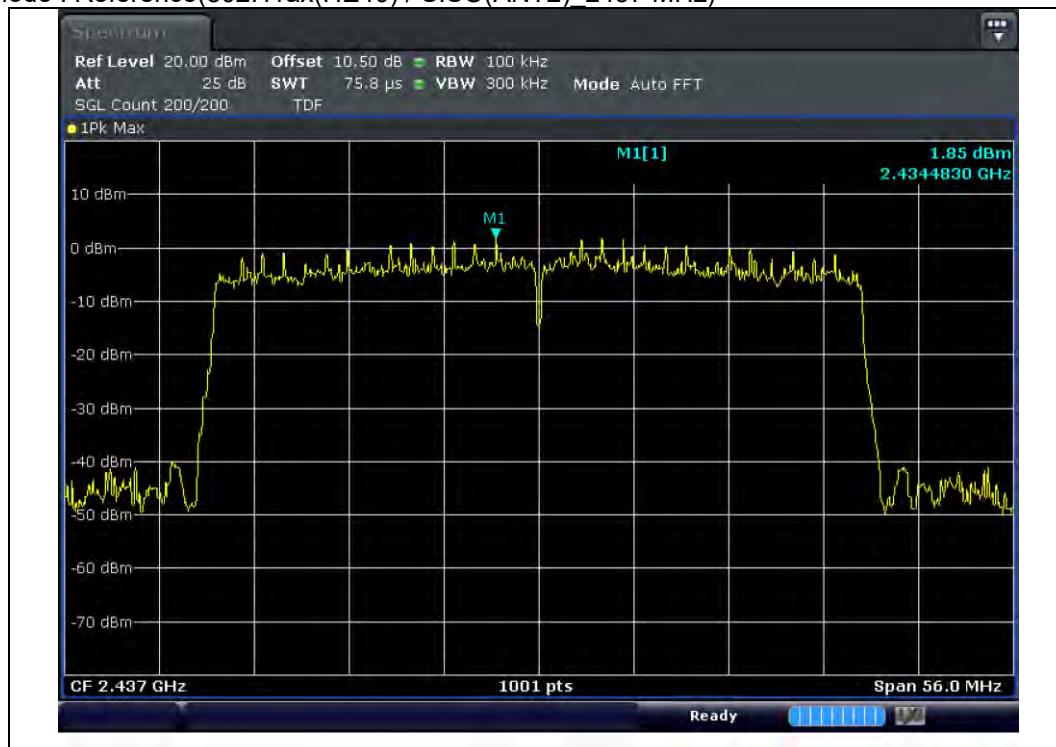
Test mode : Bandedge(802.11ax(HE40) / SISO(ANT2)_ 2422 MHz)



Test mode : Conducted Spurious Emission(802.11ax(HE40) / SISO(ANT2)_2422 MHz)



Test mode : Reference(802.11ax(HE40) / SISO(ANT2)_ 2437 MHz)



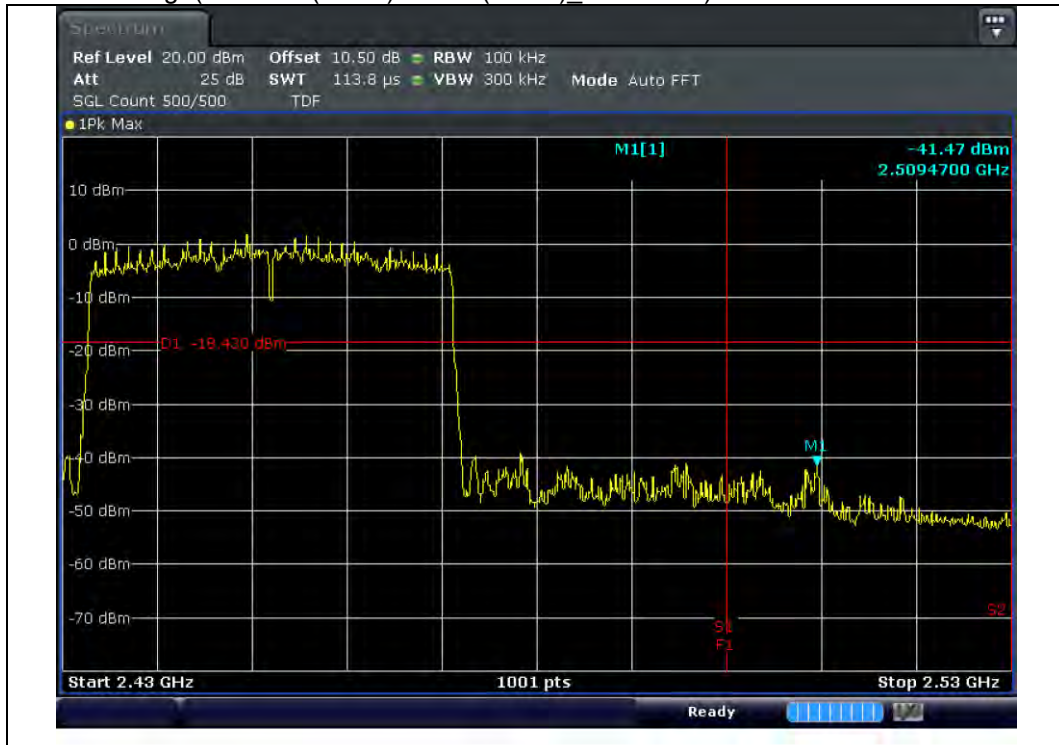
Test mode : Bandedge(802.11ax(HE40) / SISO(ANT2)_ 2437 MHz)



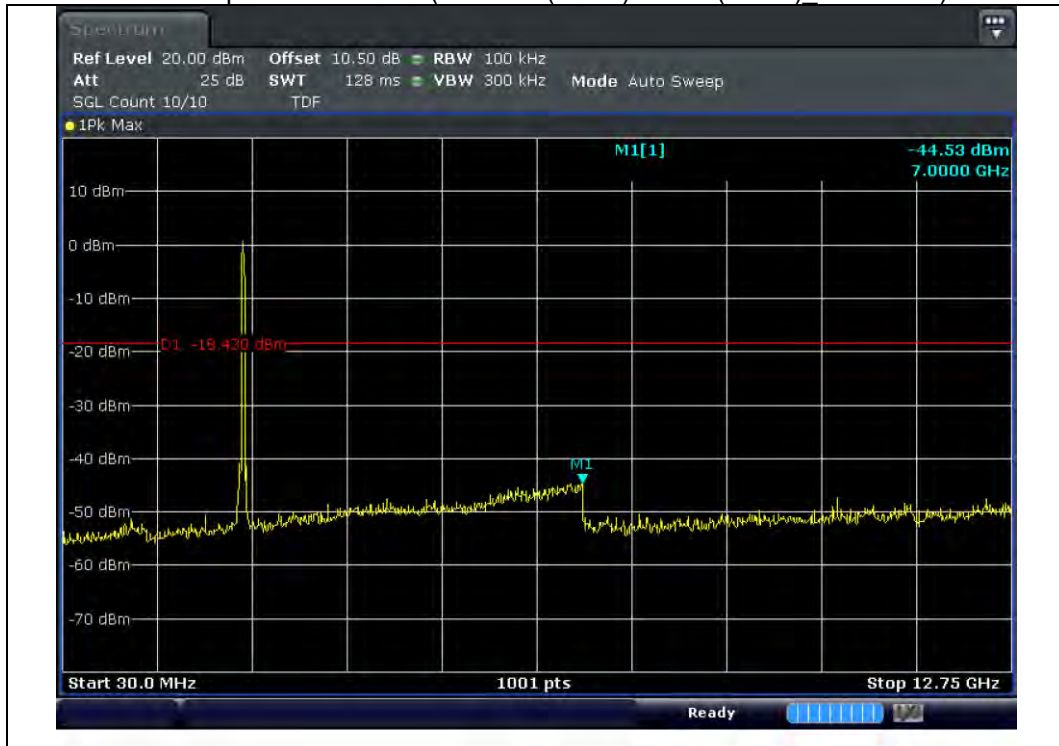
Test mode : Reference(802.11ax(HE40) / SISO(ANT2)_ 2452 MHz)



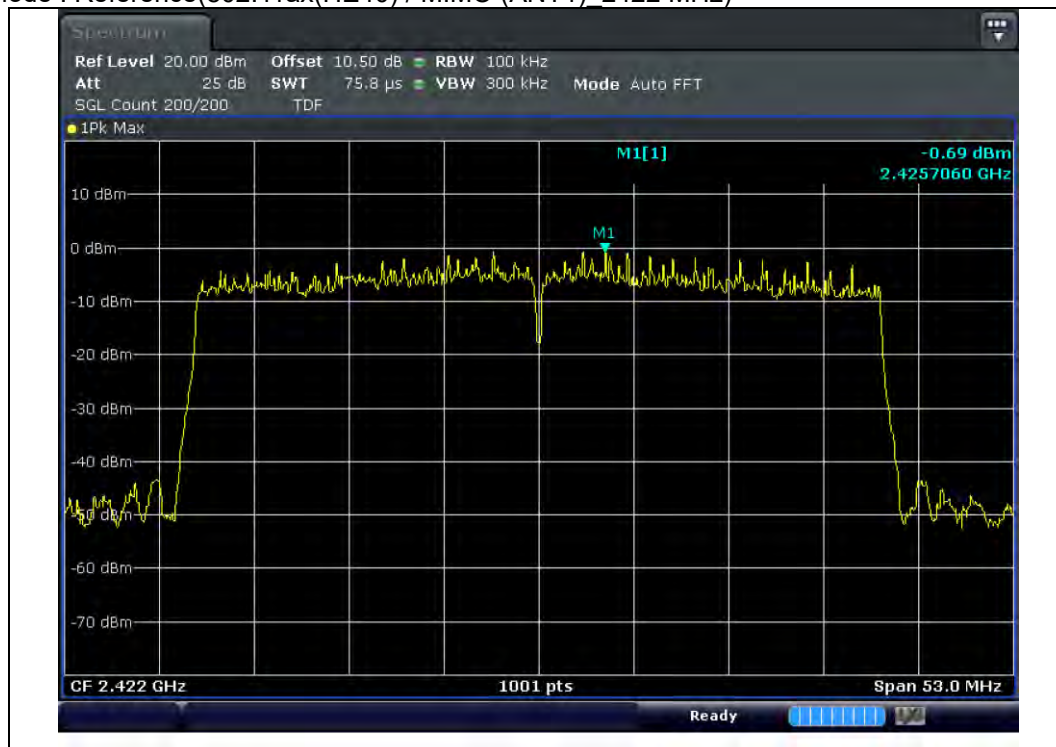
Test mode : Bandedge(802.11ax(HE40) / SISO(ANT2)_ 2452 MHz)



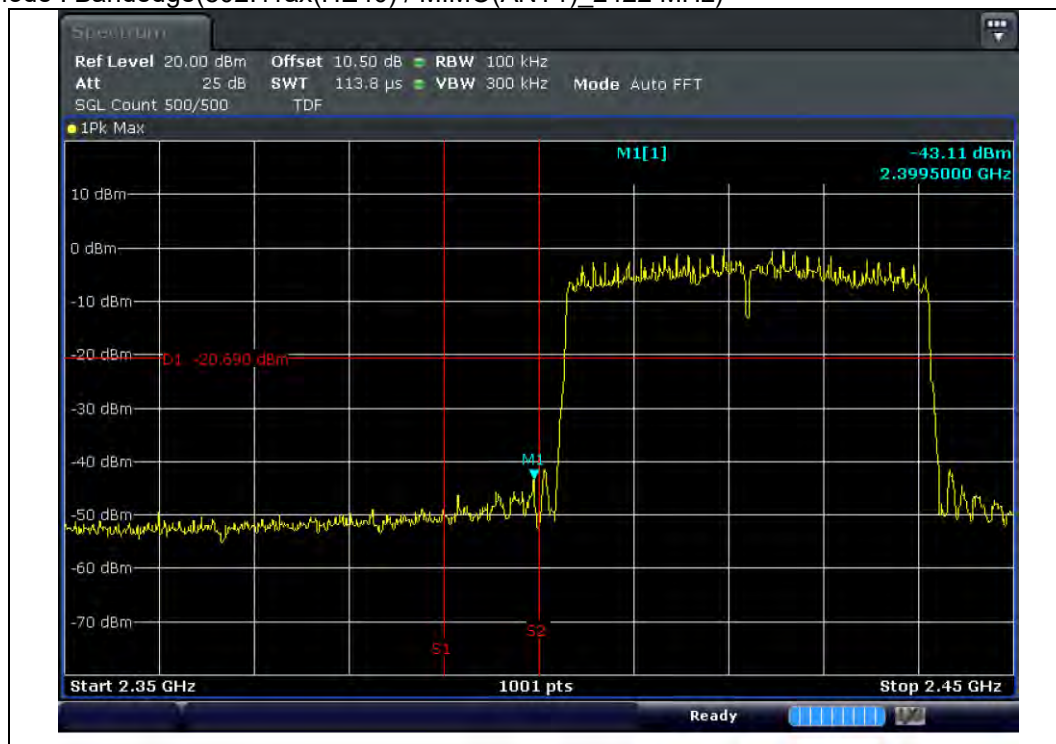
Test mode : Conducted Spurious Emission(802.11ax(HE40) / SISO(ANT2)_2452 MHz)



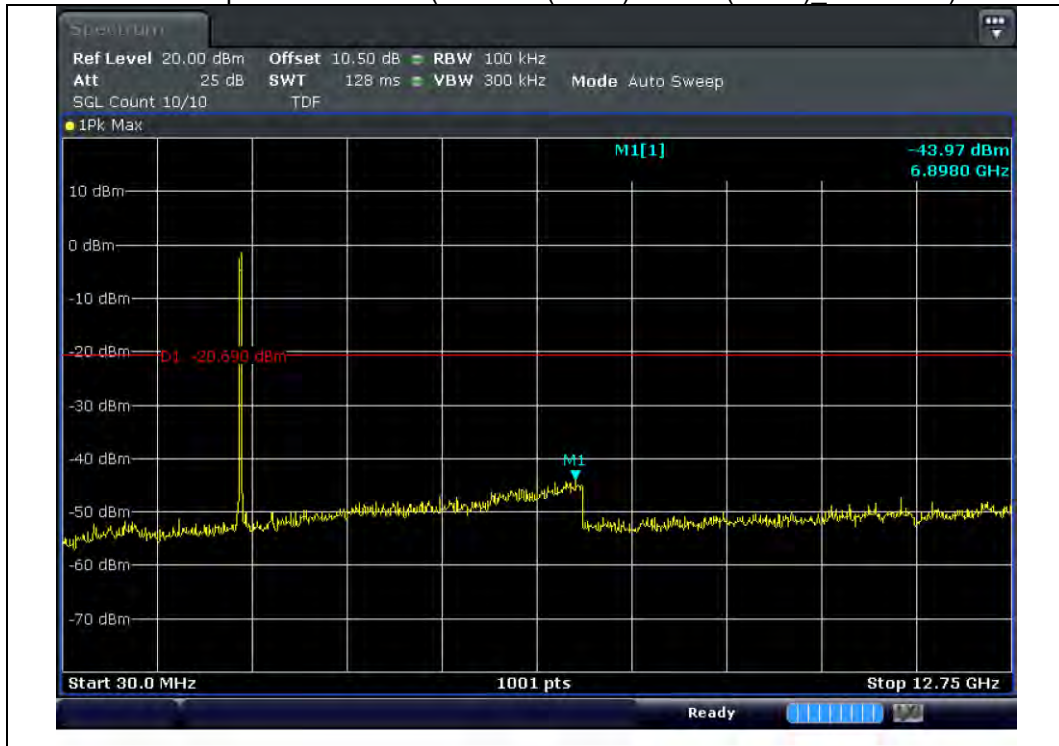
Test mode : Reference(802.11ax(HE40) / MIMO (ANT1) 2422 MHz)



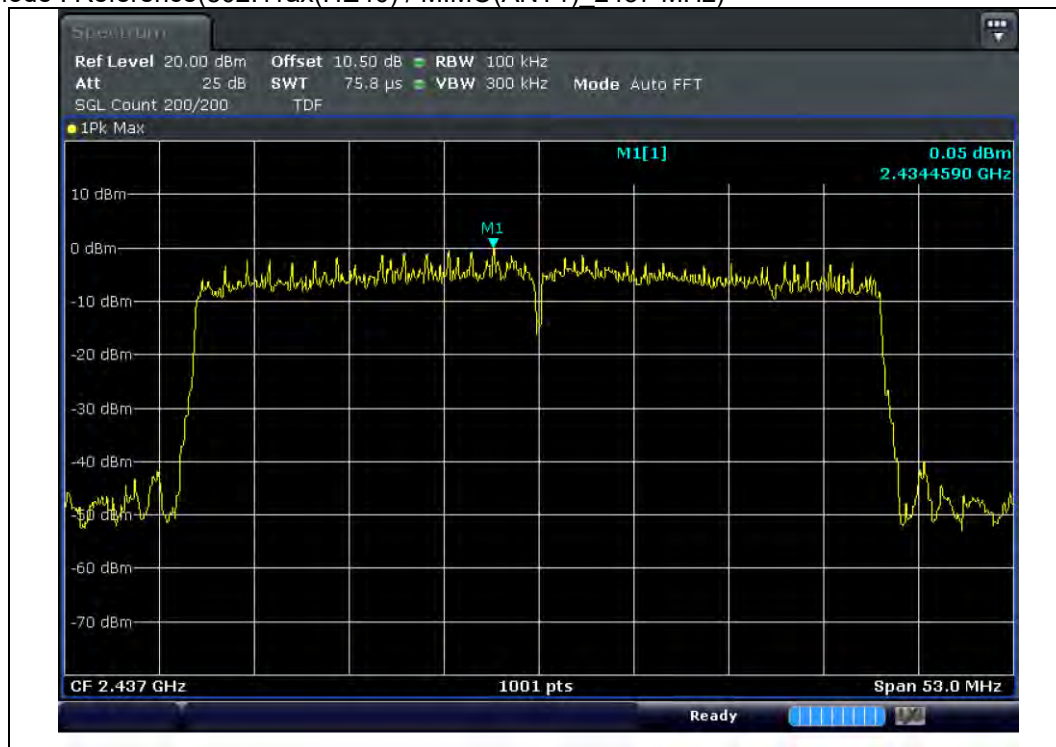
Test mode : Bandedge(802.11ax(HE40) / MIMO(ANT1) 2422 MHz)



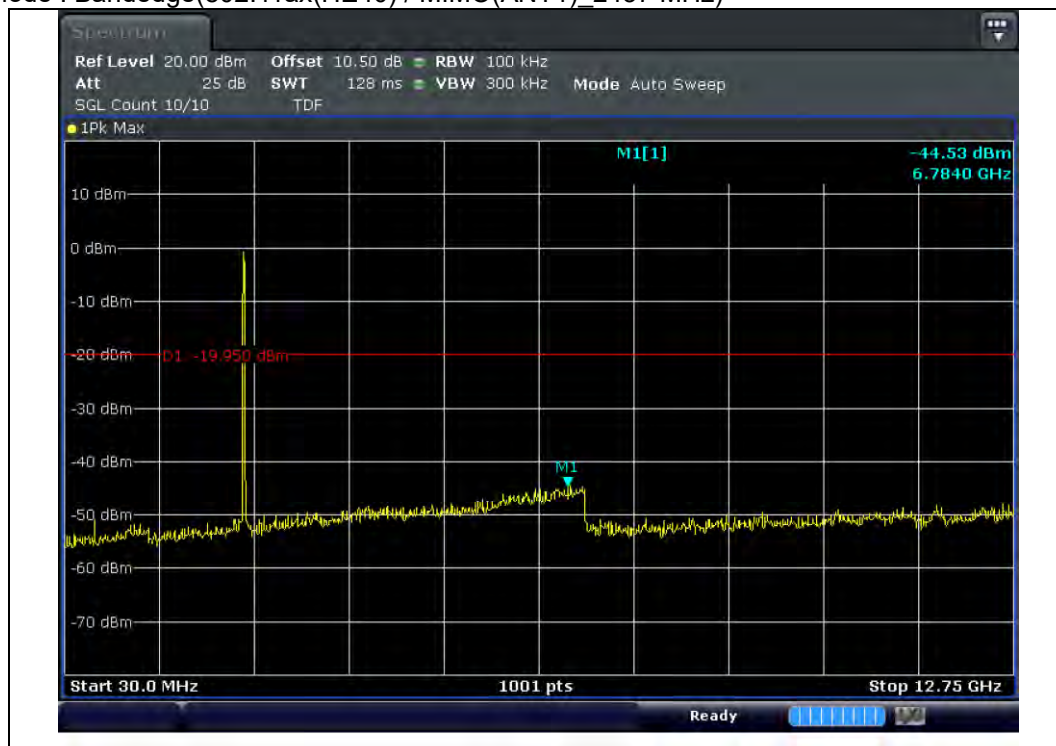
Test mode : Conducted Spurious Emission(802.11ax(HE40) / MIMO(ANT1) 2422 MHz)



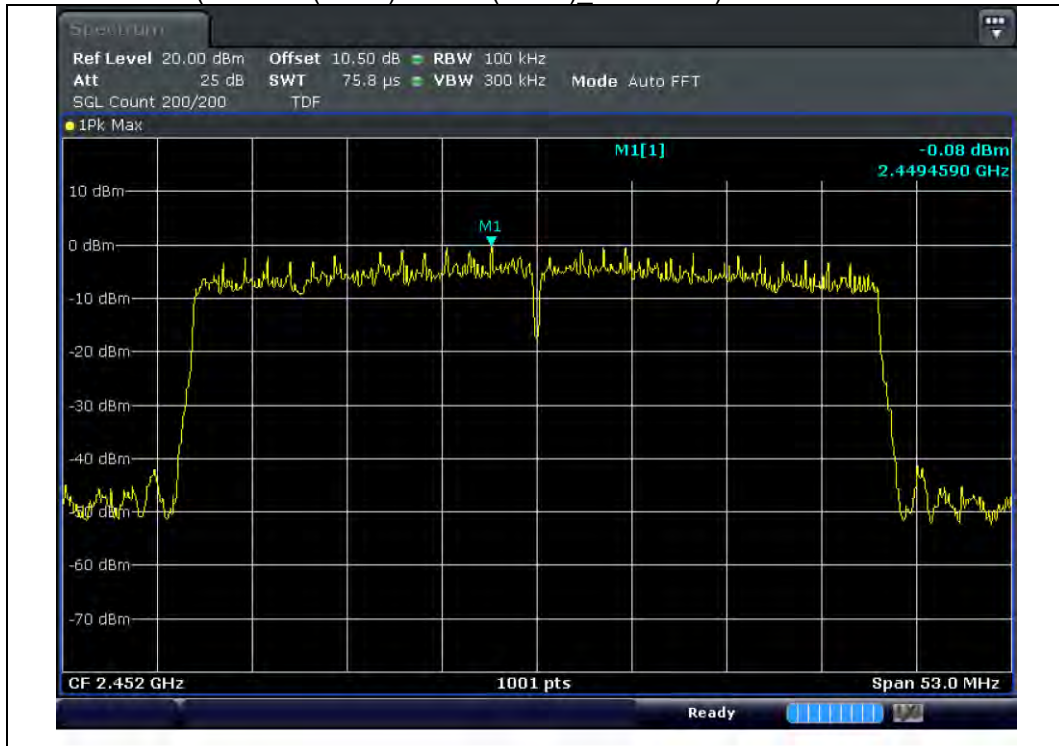
Test mode : Reference(802.11ax(HE40) / MIMO(ANT1)_ 2437 MHz)



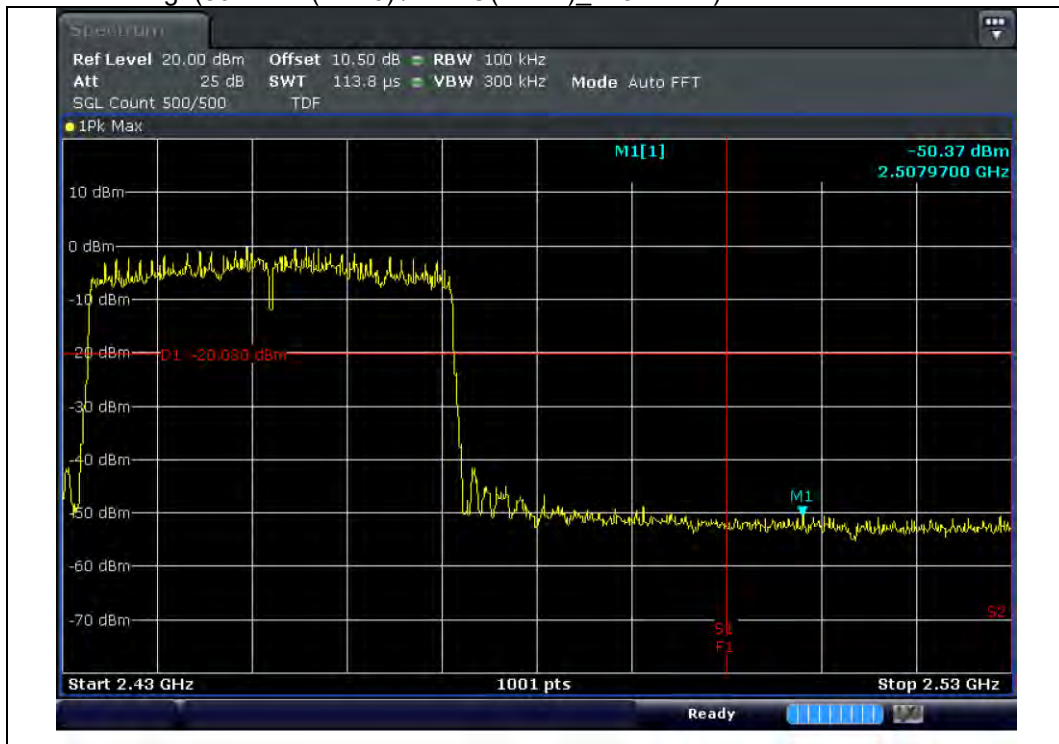
Test mode : Bandedge(802.11ax(HE40) / MIMO(ANT1)_ 2437 MHz)



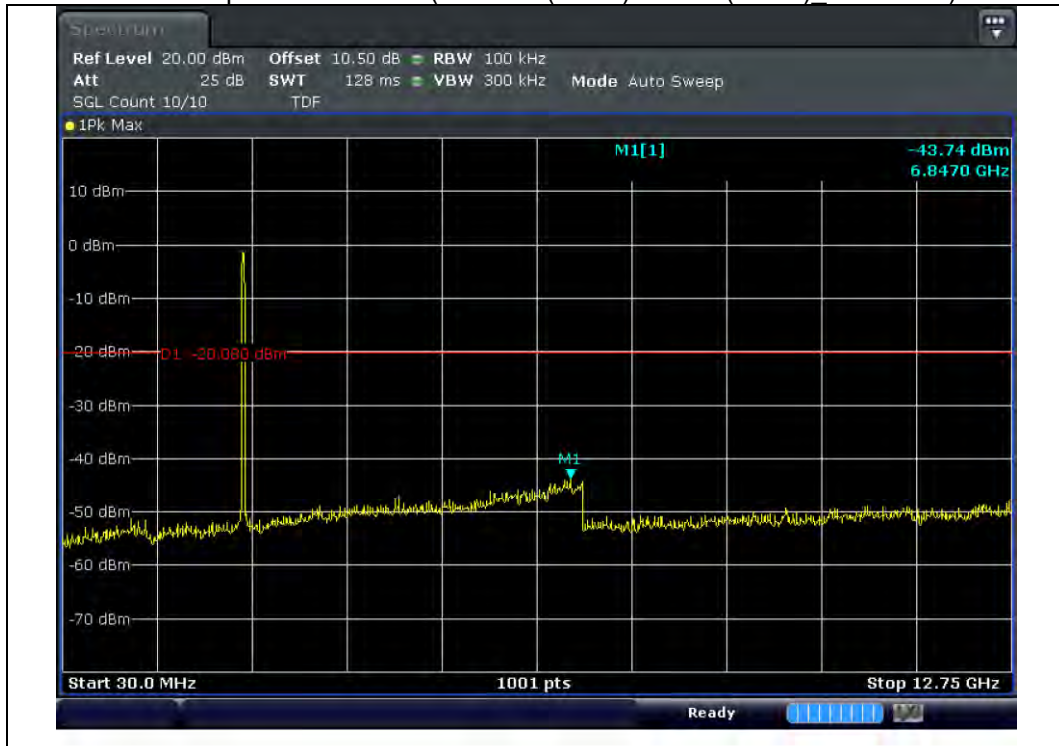
Test mode : Reference(802.11ax(HE40) / MIMO(ANT1)_ 2452 MHz)



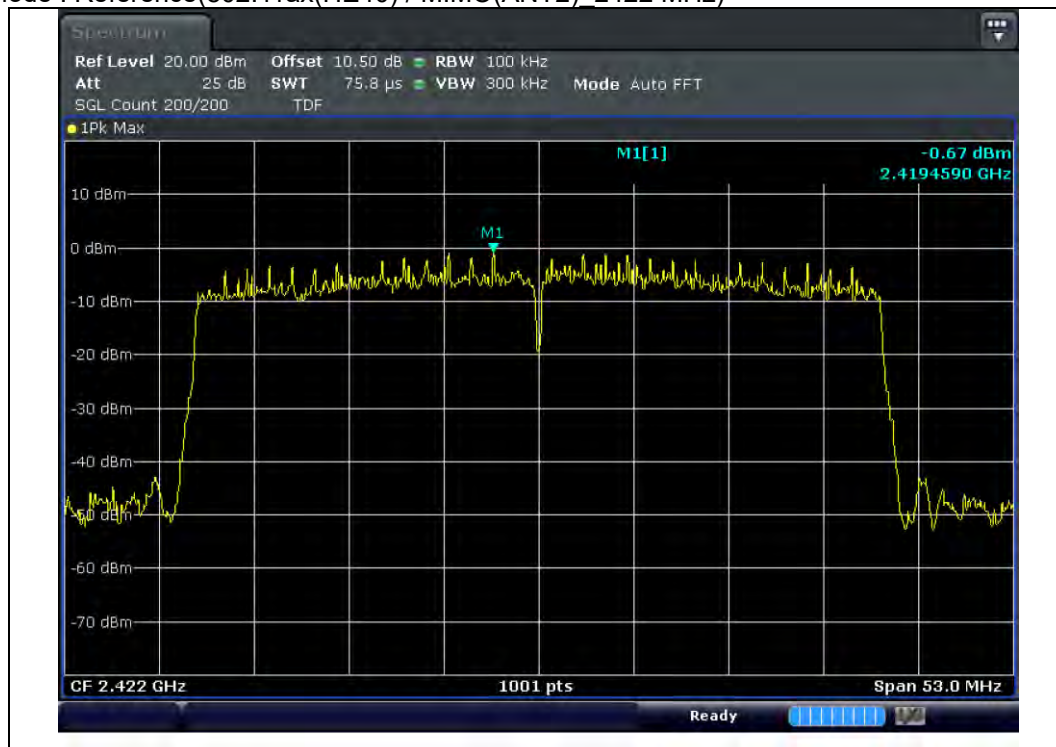
Test mode : Bandedge(802.11ax(HE40) / MIMO(ANT1)_ 2452 MHz)



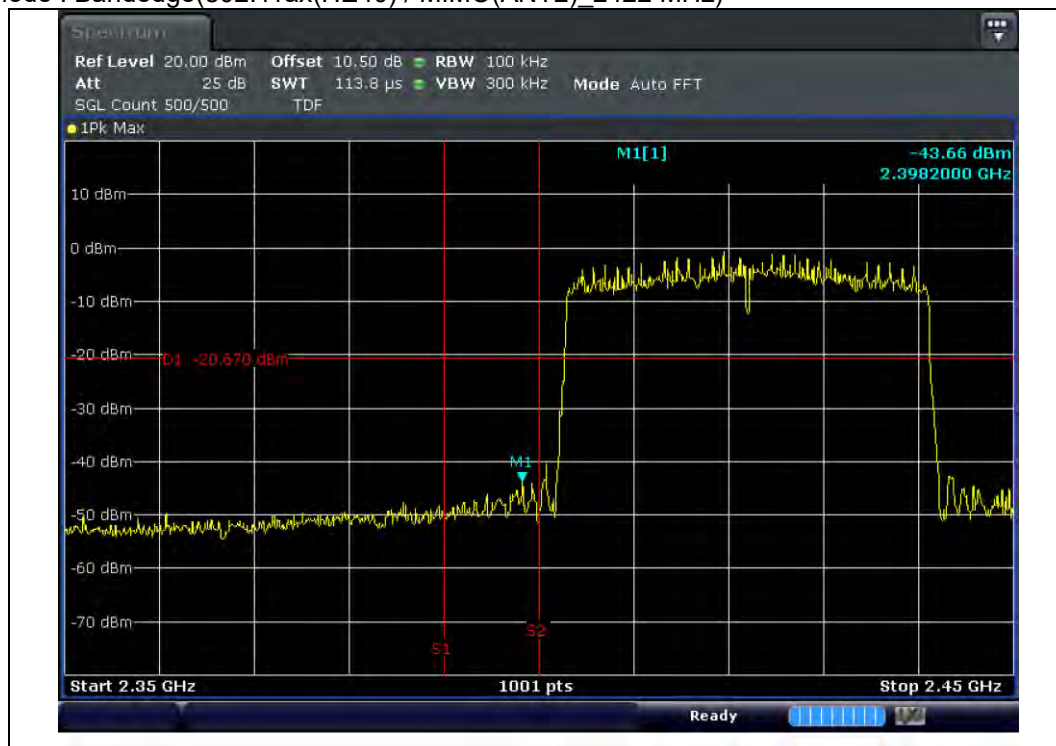
Test mode : Conducted Spurious Emission(802.11ax(HE40) / MIMO(ANT1) 2452 MHz)



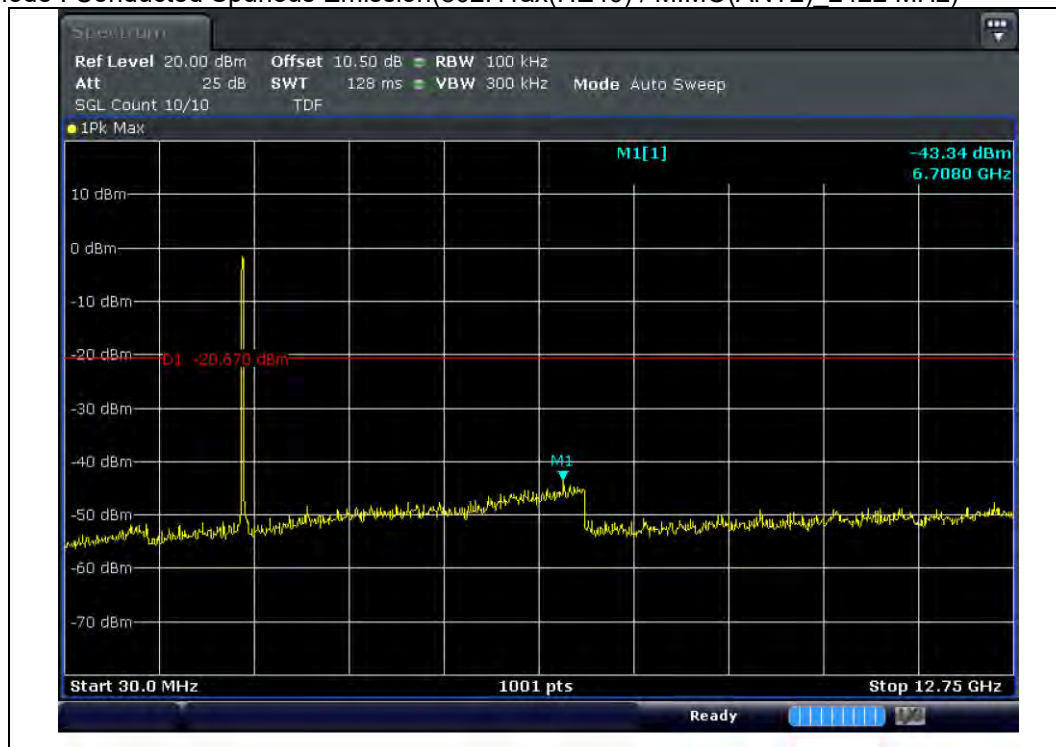
Test mode : Reference(802.11ax(HE40) / MIMO(ANT2)_2422 MHz)



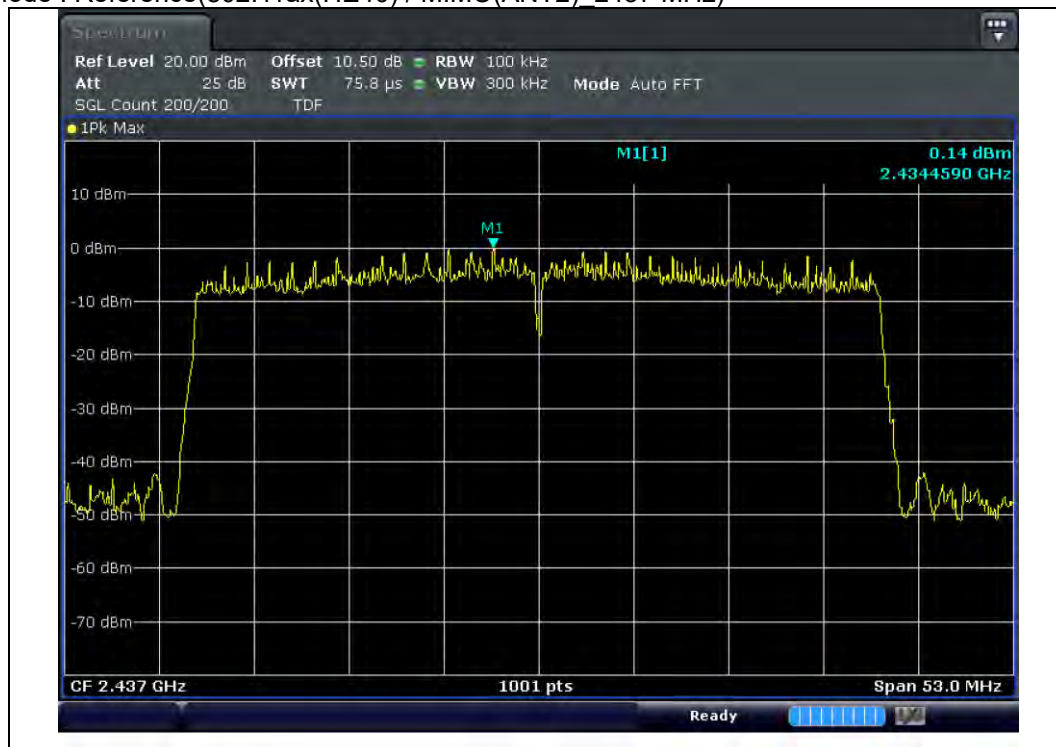
Test mode : Bandedge(802.11ax(HE40) / MIMO(ANT2)_2422 MHz)



Test mode : Conducted Spurious Emission(802.11ax(HE40) / MIMO(ANT2) 2422 MHz)



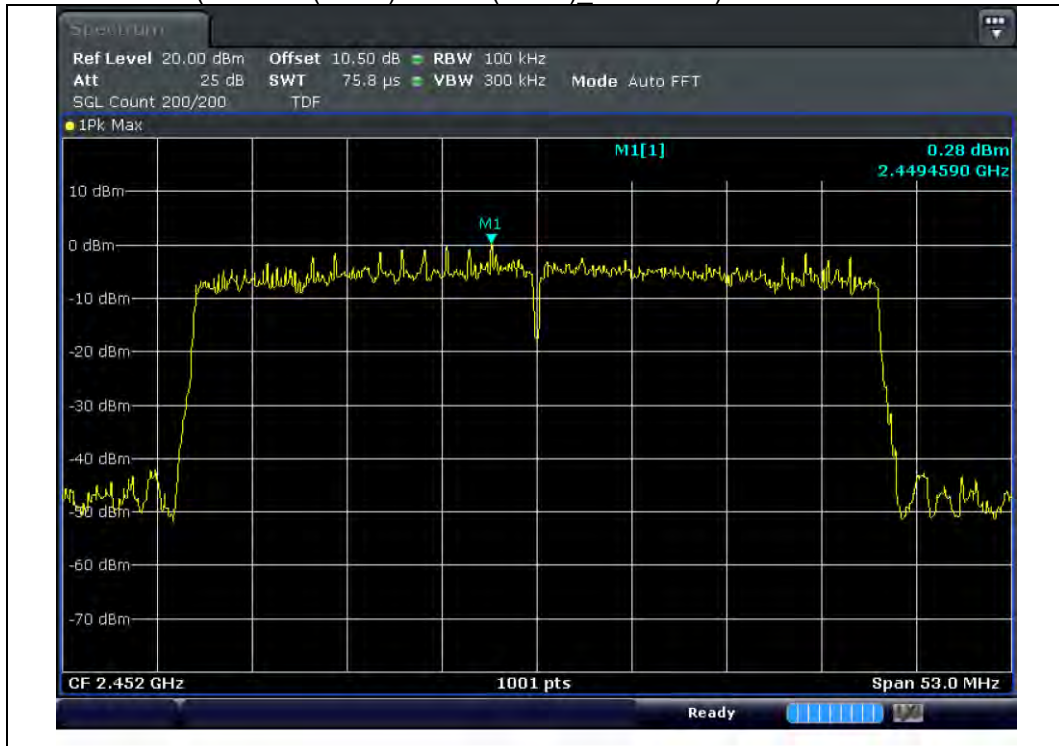
Test mode : Reference(802.11ax(HE40) / MIMO(ANT2) 2437 MHz)



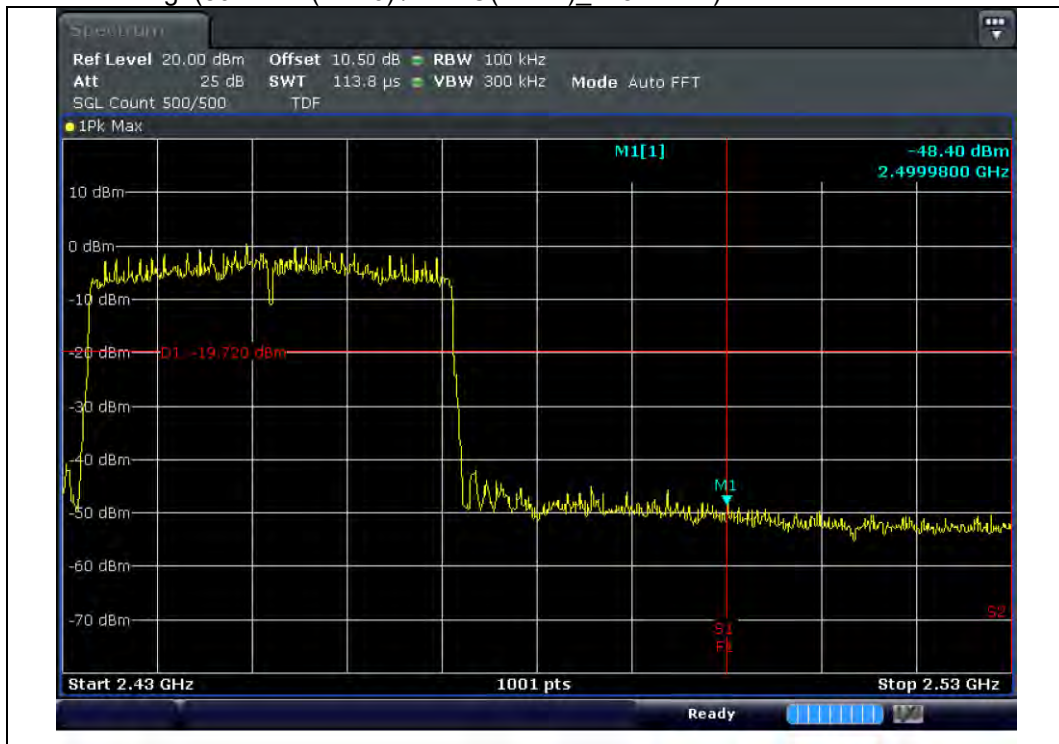
Test mode : Bandedge(802.11ax(HE40) / MIMO(ANT2) 2437 MHz)



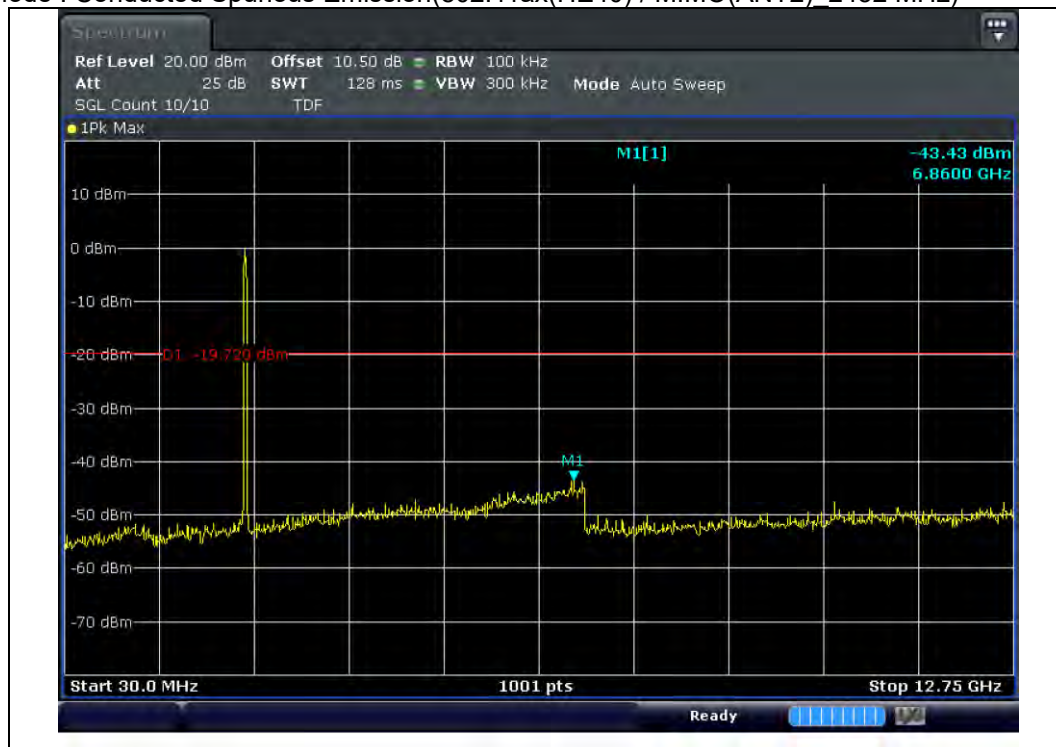
Test mode : Reference(802.11ax(HE40) / MIMO(ANT2)_2452 MHz)



Test mode : Bandedge(802.11ax(HE40) / MIMO(ANT2)_2452 MHz)

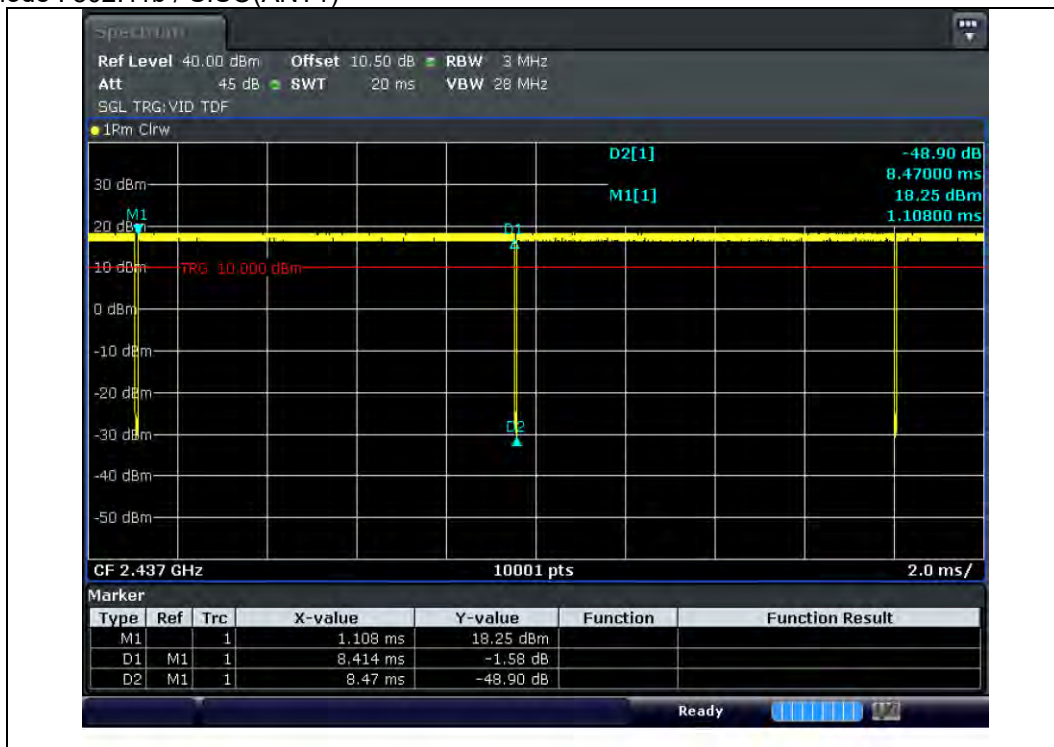


Test mode : Conducted Spurious Emission(802.11ax(HE40) / MIMO(ANT2) 2452 MHz)



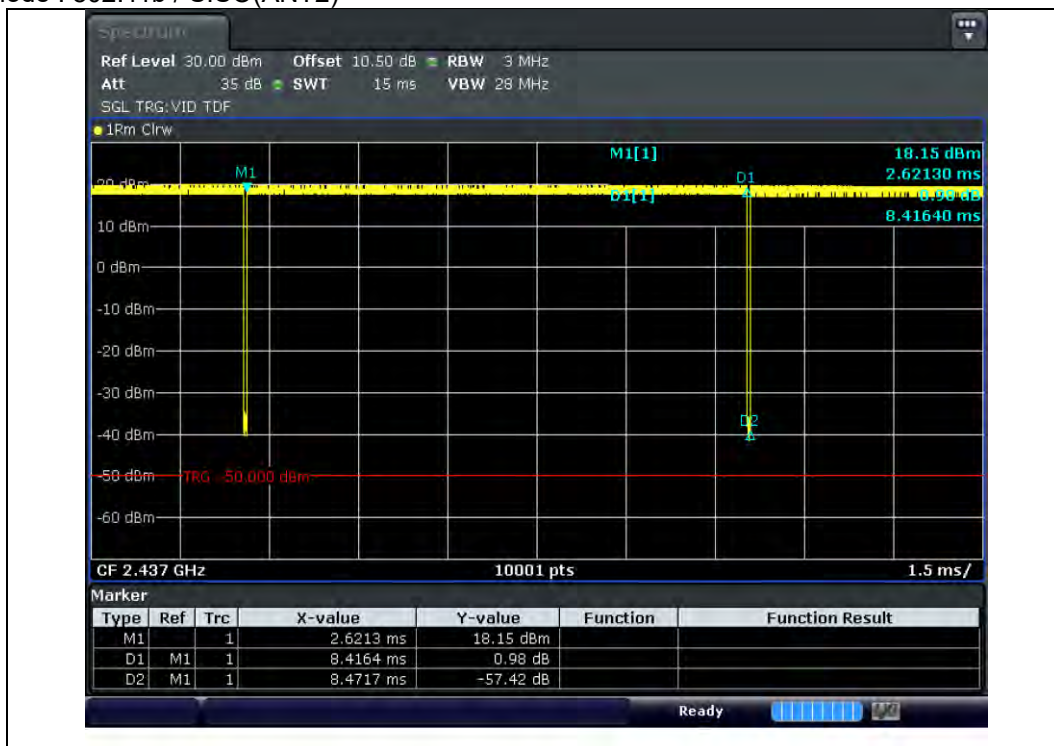
4.3.5.8 Duty Cycle Measurement data

Test mode : 802.11b / SISO(ANT1)



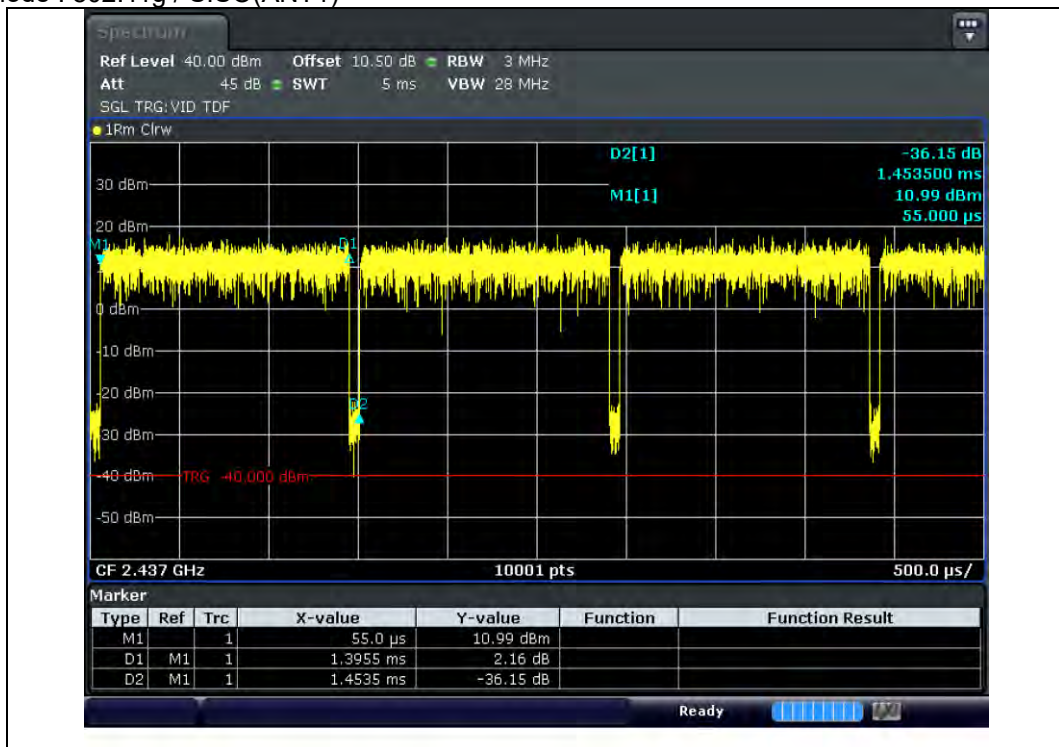
Average factor(dB) : $10\log(\text{ontime}/\text{period}) = 0.03 \text{ dB}$

Test mode : 802.11b / SISO(ANT2)



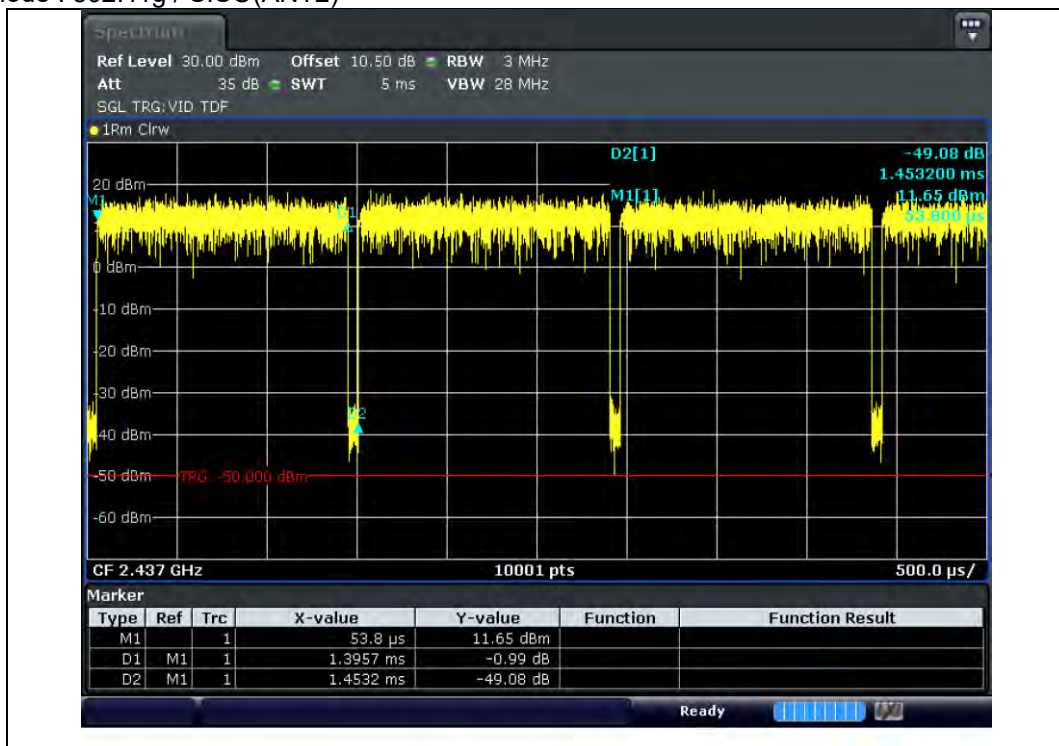
Average factor(dB) : $10\log(\text{ontime}/\text{period}) = 0.03 \text{ dB}$

Test mode : 802.11g / SISO(ANT1)



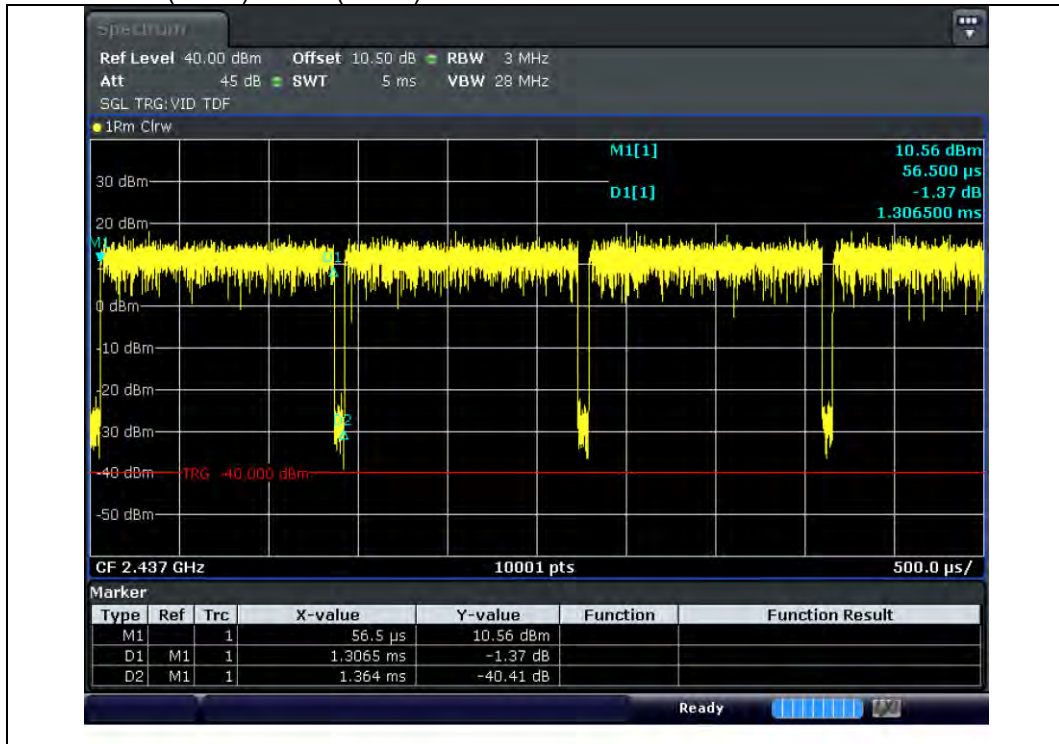
Average factor(dB) : $10\log(\text{ontime}/\text{period}) = 0.18$ dB

Test mode : 802.11g / SISO(ANT2)



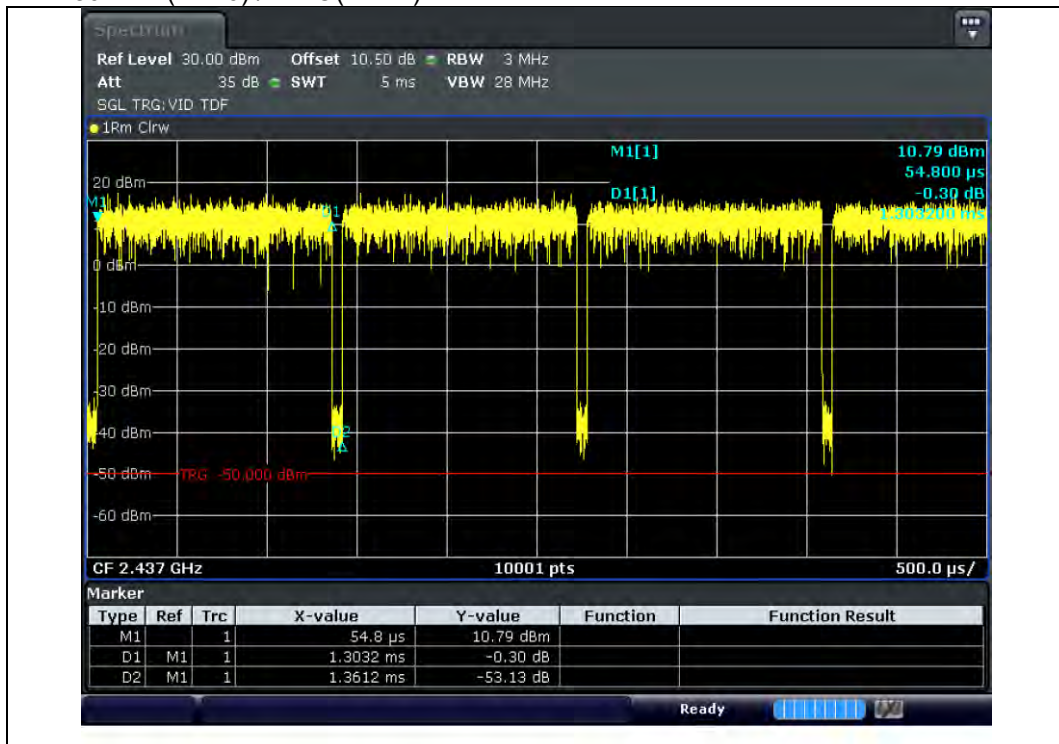
Average factor(dB) : $10\log(\text{ontime}/\text{period}) = 0.18$ dB

Test mode : 802.11n(HT20) / SISO(ANT1)



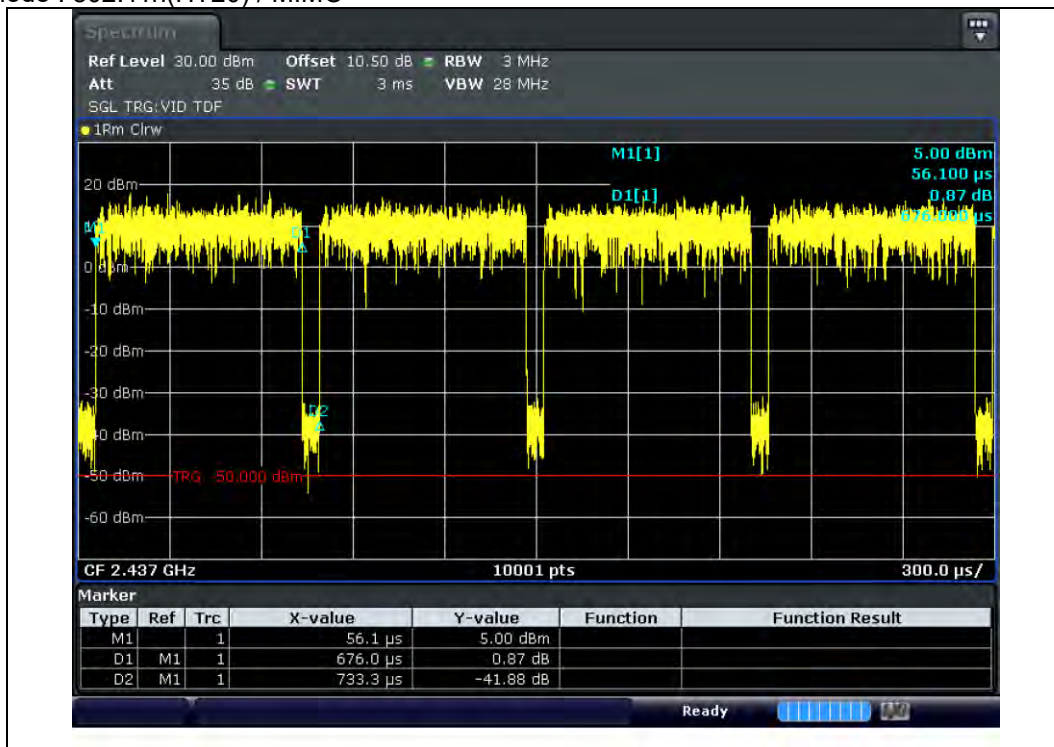
Average factor(dB) : $10\log(\text{ontime}/\text{period}) = 0.19$ dB

Test mode : 802.11n(HT20) / SISO(ANT2)



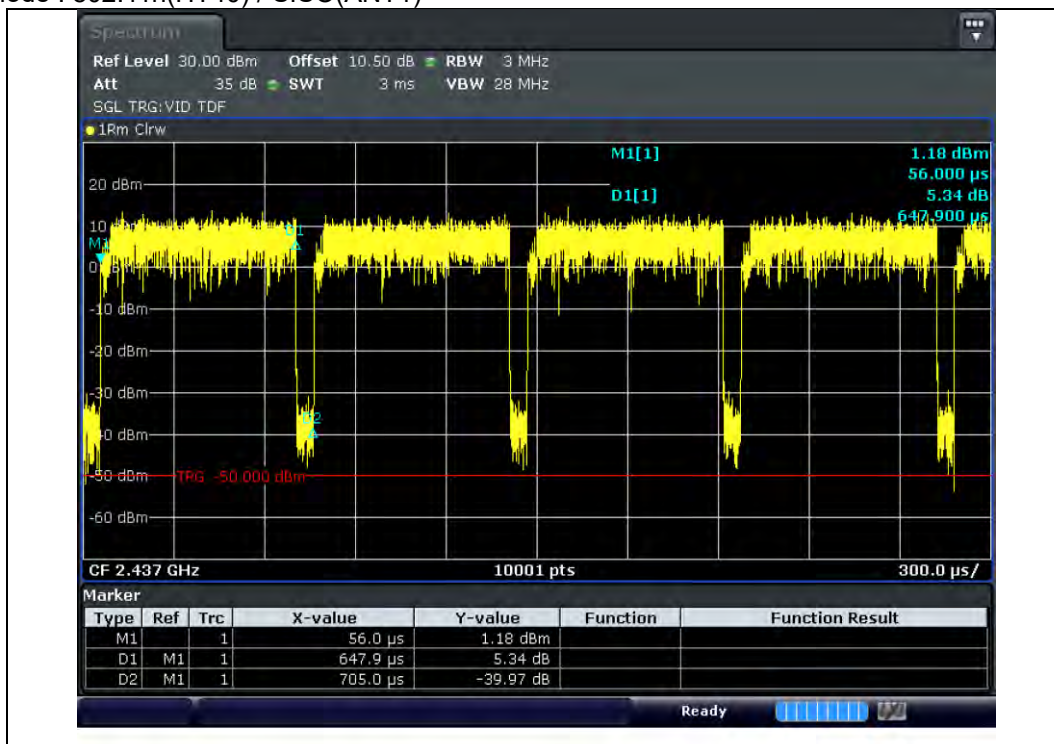
Average factor(dB) : $10\log(\text{ontime}/\text{period}) = 0.19$ dB

Test mode : 802.11n(HT20) / MIMO



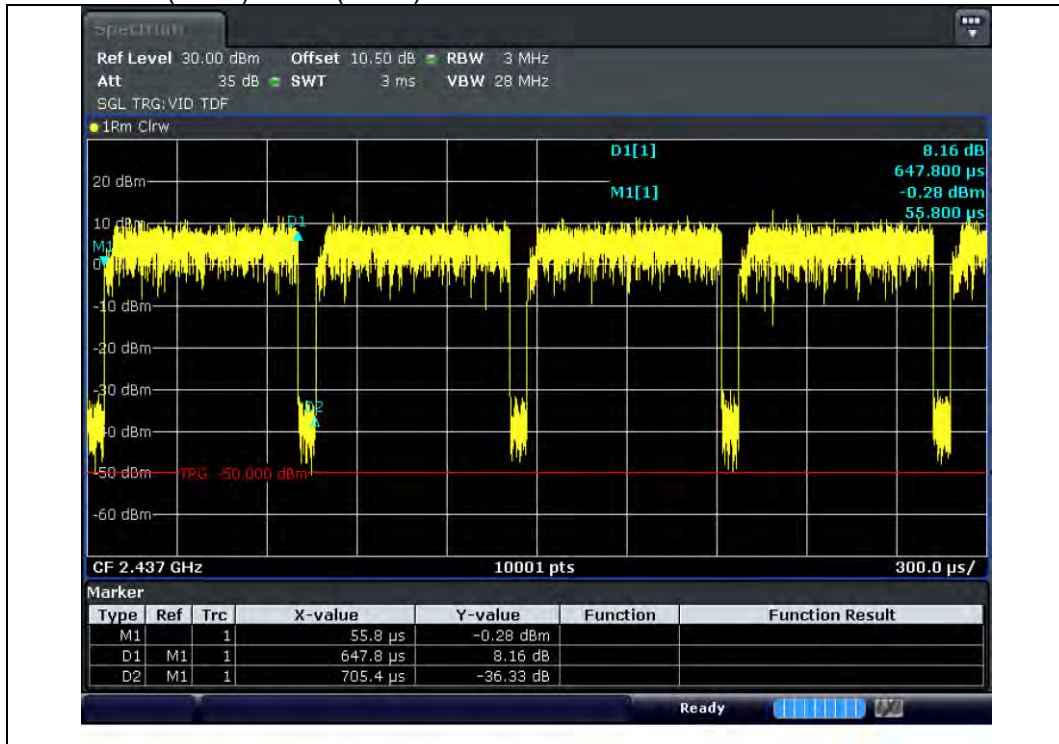
Average factor(dB) : $10\log(\text{ontime}/\text{period}) = 0.35$ dB

Test mode : 802.11n(HT40) / SISO(ANT1)



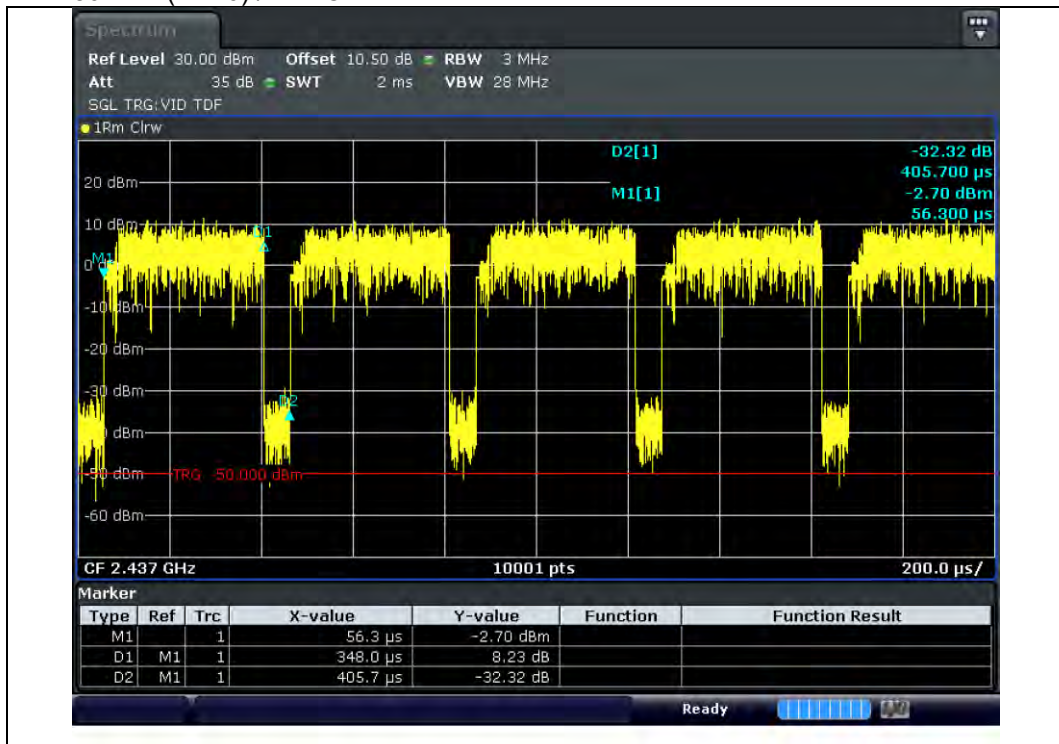
Average factor(dB) : $10\log(\text{ontime}/\text{period}) = 0.37$ dB

Test mode : 802.11n(HT40) / SISO(ANT2)



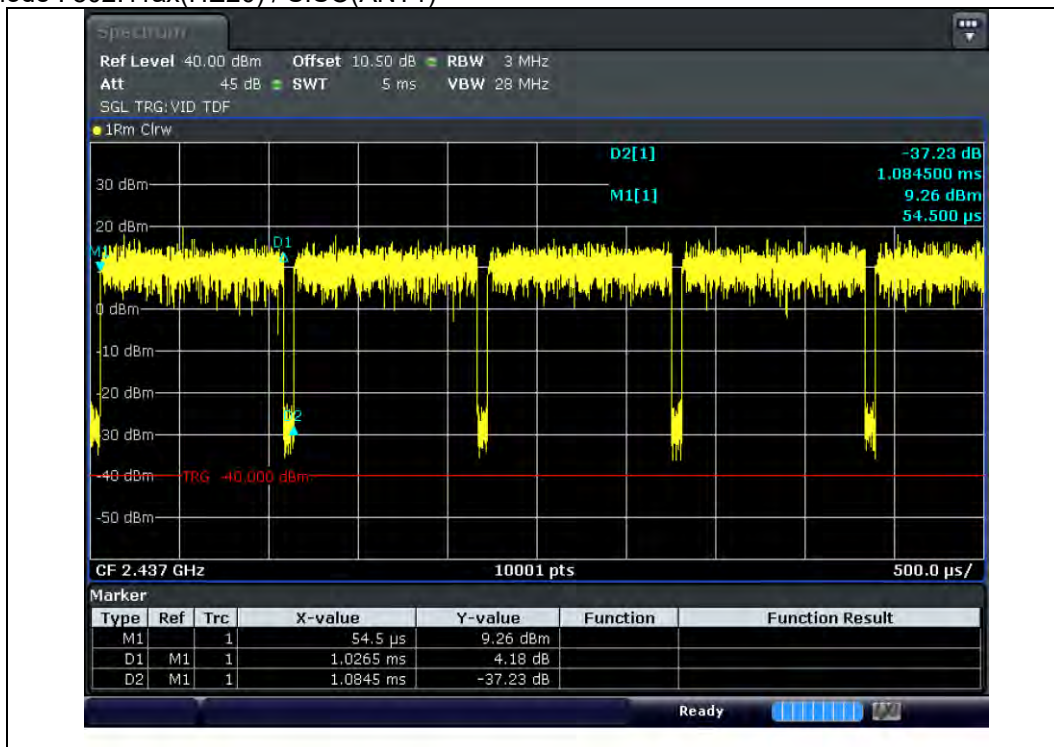
Average factor(dB) : $10\log(\text{ontime}/\text{period}) = 0.37$ dB

Test mode : 802.11n(HT40) / MIMO



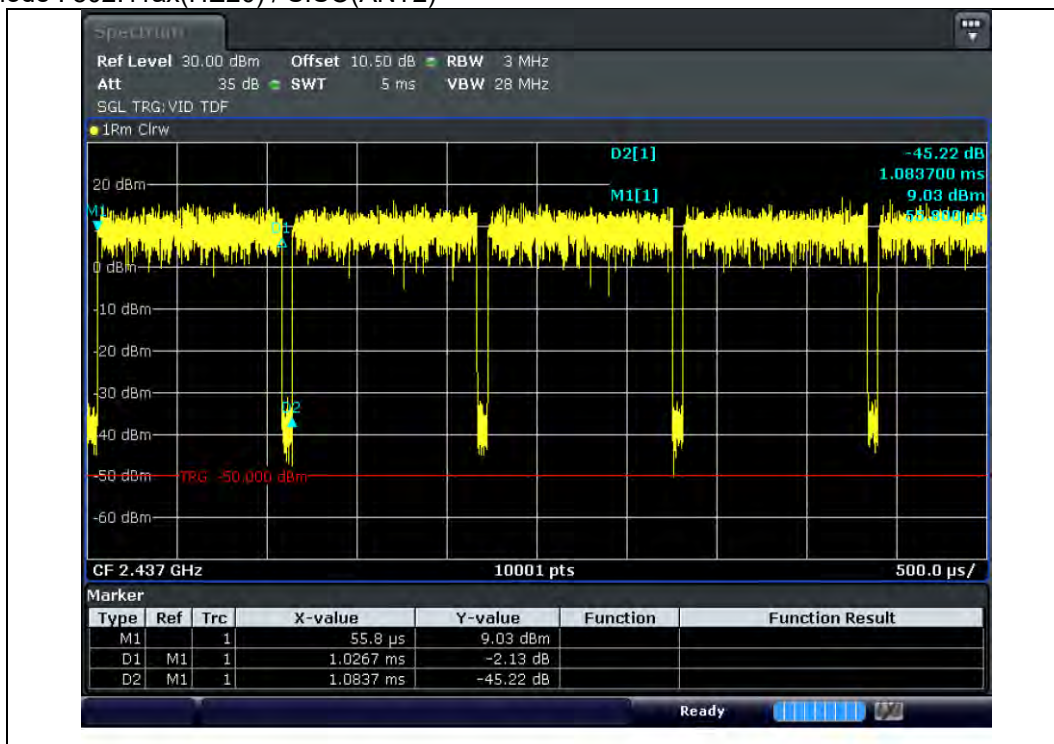
Average factor(dB) : $10\log(\text{ontime}/\text{period}) = 0.66$ dB

Test mode : 802.11ax(HE20) / SISO(ANT1)



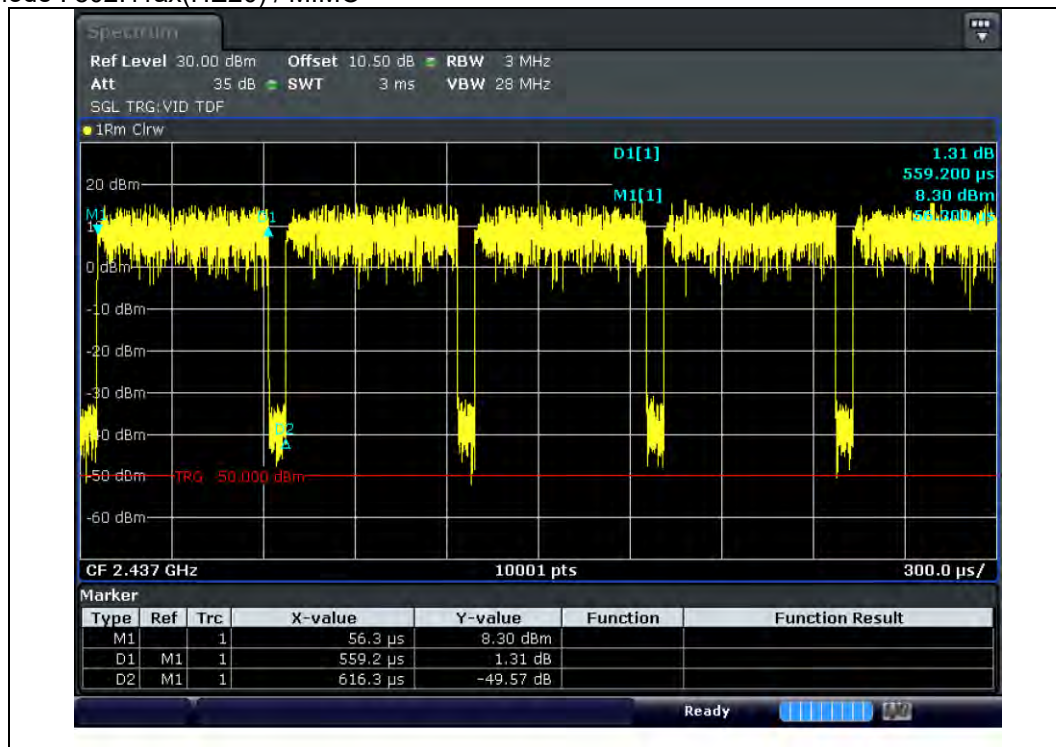
Average factor(dB) : $10\log(\text{ontime}/\text{period}) = 0.24 \text{ dB}$

Test mode : 802.11ax(HE20) / SISO(ANT2)



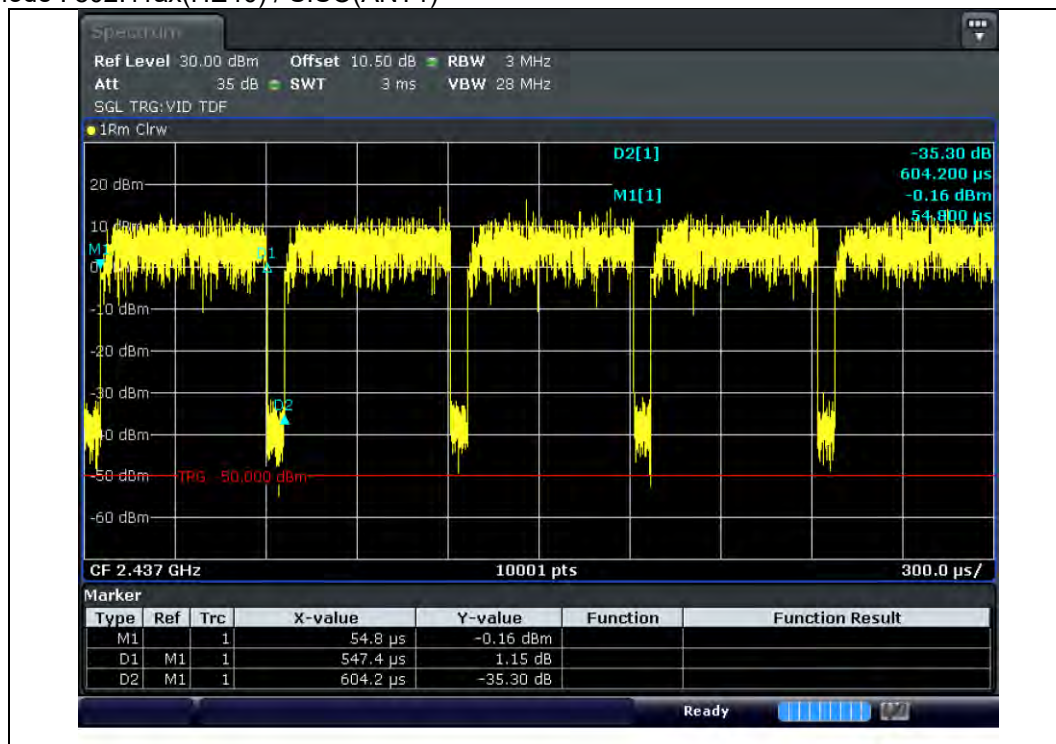
Average factor(dB) : $10\log(\text{ontime}/\text{period}) = 0.23 \text{ dB}$

Test mode : 802.11ax(HE20) / MIMO



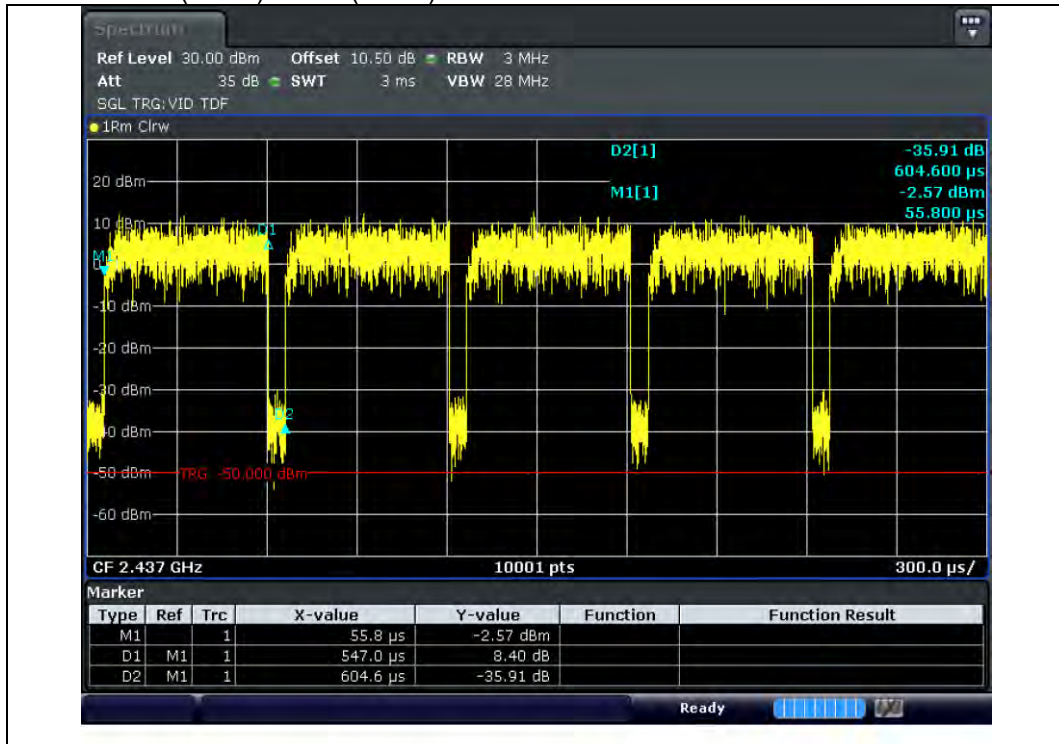
Average factor(dB) : $10\log(\text{ontime}/\text{period}) = 0.42$ dB

Test mode : 802.11ax(HE40) / SISO(ANT1)



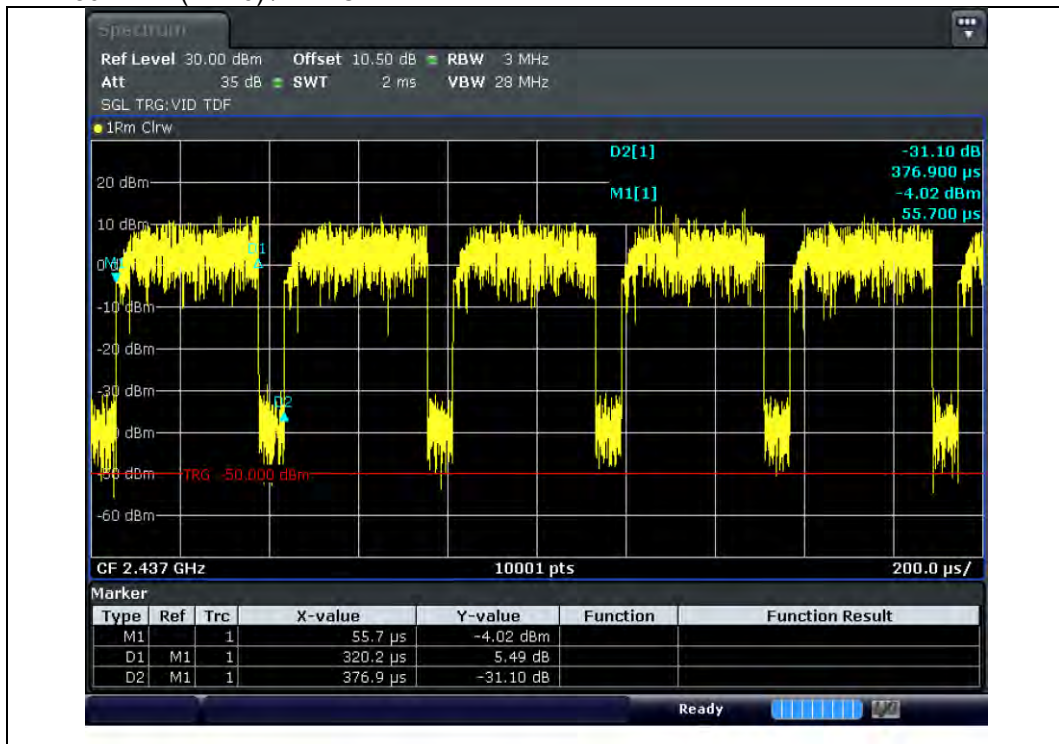
Average factor(dB) : $10\log(\text{ontime}/\text{period}) = 0.43$ dB

Test mode : 802.11ax(HE40) / SISO(ANT2)



Average factor(dB) : $10\log(\text{ontime}/\text{period}) = 0.43$ dB

Test mode : 802.11ax(HE40) / MIMO



Average factor(dB) : $10\log(\text{ontime}/\text{period}) = 0.70$ dB

4.3.6 Conducted Emission

4.3.6.1 Regulation

According to §15.207(a), and RSS-GEN 8.8 for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	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.

According to §15.107(a), for unintentional device, except for Class A digital devices, line conducted emission limits are the same as the above table.

4.4.6.2 Measurement Procedure

1) The EUT was placed on a wooden table of size, 1 m by 1.5 m, raised 80 cm in which is located 40 cm away from the vertical wall and 1.5 m away from the side wall of the shielded room.

2) Each current-carrying conductor of the EUT power cord was individually connected through a 50 Ω /50 μ H LISN, which is an input transducer to a Spectrum Analyzer or an EMI/Field Intensity Meter, to the input power source.

3) Exploratory measurements were made to identify the frequency of the emission that had the highest amplitude relative to the limit by operating the EUT in a range of typical modes of operation, cable position, and with a typical system equipment configuration and arrangement. Based on the exploratory tests of the EUT, the one EUT cable configuration and arrangement and mode of operation that had produced the emission with the highest amplitude relative to the limit was selected for the final measurement.

4) The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment is the system) was then performed over the frequency range of 0.15 MHz to 30 MHz.

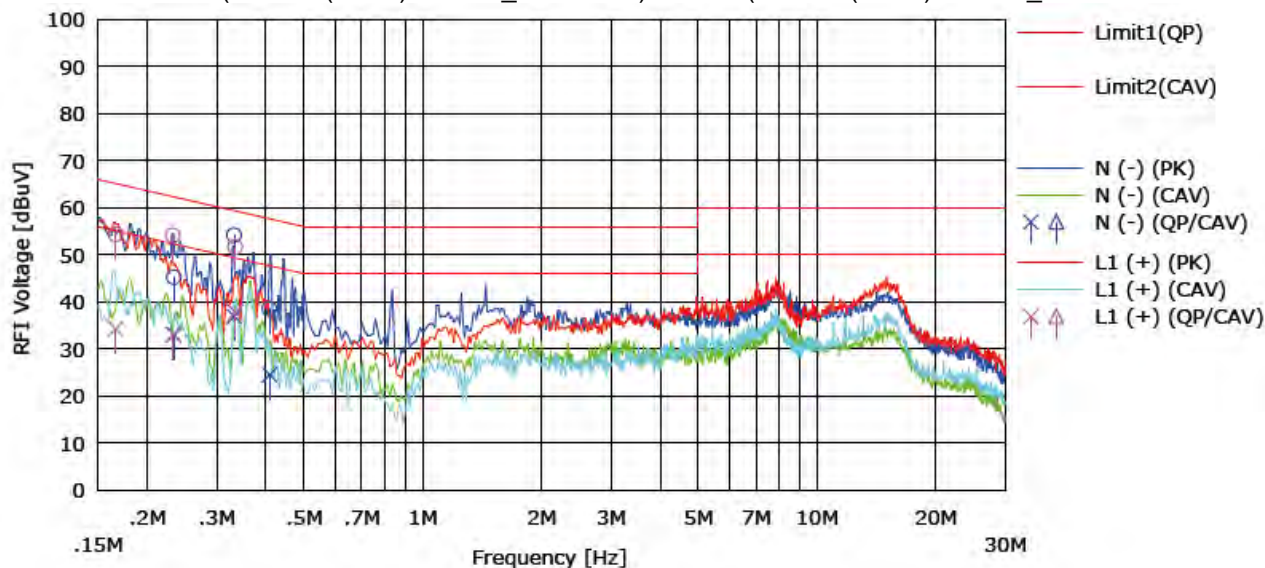
5) The measurements were made with the detector set to PEAK amplitude within a bandwidth of 10 kHz or to QUASIPeak and AVERAGE within a bandwidth of 9 kHz. The EUT was in transmitting mode during the measurements.

4.3.6.3 Result

Comply (measurement data : refer to the next page)

4.3.6.4 Measurement data

Test Case : 2.4GHz(802.11n(HT20) / MIMO_2462 MHz) + 5GHz(802.11n(HT20) / MIMO_5180 MHz



NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	CAV [dBuV]		QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	
1	0.23402	25.5	13.4	19.8	45.2	33.1	62.3	52.3	17.1	19.2	N (-)
2	0.33263	34.3	17.1	19.8	54.1	36.9	59.4	49.4	5.3	12.5	L1 (+)
3	0.40884	18.6	4.6	19.9	38.5	24.6	57.7	47.7	19.2	23.1	L1 (+)
4	0.16647	34.3	14.3	20.0	54.4	34.4	65.1	55.1	10.7	20.7	L1 (+)
5	0.23286	34.3	13.3	19.8	54.1	33.1	62.3	52.3	8.2	19.2	N (-)
6	0.33463	31.8	18.0	19.8	51.6	37.8	59.3	49.3	7.7	11.5	N (-)

APPENDIX I

TEST EQUIPMENT USED FOR TESTS

To facilitate inclusion on each page of the test equipment used for related tests, each item of test equipment.

Equipment	Manufacturer	Model	Serial No.	Cal. Date (yy.mm.dd)	Next Cal.Date (yy.mm.dd)
FSV Signal Analyzer	ROHDE&SCHWARZ	FSV30	103370	2021-10-14	2022-10-14
FSV Signal Analyzer	ROHDE&SCHWARZ	FSV40	101010	2022-04-18	2023-04-18
Power Sensor	KEYSIGHT	U2022XA	MY55320008	2021-08-17	2022-08-17
ATTENUATOR	WEINSCHL	54A-10	69672	2021-10-12	2022-10-12
Power Supply	KIKUSUI	PWX1500L	SM002050	2021-08-24	2022-08-24
Digital MultiMeter	HP	34401A	US36025428	2022-01-10	2023-01-10
Signal Generator	ROHDE&SCHWARZ	SMB100A	178384	2021-10-13	2022-10-13
EMI Test Receiver	ROHDE&SCHWARZ	ESU40	100445	2021-09-10	2022-09-10
BiLog Antenna	Schwarzbeck	VULB9168	00821	2021-03-31	2023-03-31
ATTENUATOR	JFW	50F-006	6 dB-3	2022-04-13	2023-04-13
Preamplifier	TSJ	MLA-10k01-b01-27	1870367	2022-04-13	2023-04-13
Antenna Mast(10 m)	TOKIN	5977	-	-	-
Antenna Mast(10 m)	Innco	MA4640-XPET-0800	578	-	-
Controller(10 m)	TOKIN	5909L	141909L-1	-	-
Controller(10 m)	Innco	CO3000	40040217	-	-
Turn Table(10 m)	TOKIN	5983-1.5	-	-	-
Active Loop H-Field	ETS	6502	00150598	2021-05-25	2023-05-25
Double Ridge Horn Antenna	ETS	3117	00168719	2021-08-23	2022-08-23
Double Ridge Horn Antenna	A.H Systems, Inc	SAS-574	465	2021-04-26	2023-04-26
PREAMPLIFIER	Agilent	8449B	3008A02110	2022-01-10	2023-01-10
PREAMPLIFIER	A.H Systems, Inc	PAM-1840VH	166	2022-01-10	2023-01-10
High pass filter	Wainwright Instruments GmbH	WHKX10-2580-3000-18000-60SS	14	2022-01-10	2023-01-10
EMI Test Receiver	ROHDE&SCHWARZ	ESR7	101440	2021-09-10	2022-09-10
LISN	ROHDE&SCHWARZ	ENV216	101883	2022-04-13	2023-04-13
Pulse Limiter	Schwarzbeck	VTSD 9561-F	9561-F189	2022-04-13	2023-04-13
Band Reject Filter	WRCGV10-2363.5-2400-2483.5-2520--60SS	wainwright instruments gmbh	7	2022-04-14	2023-04-14