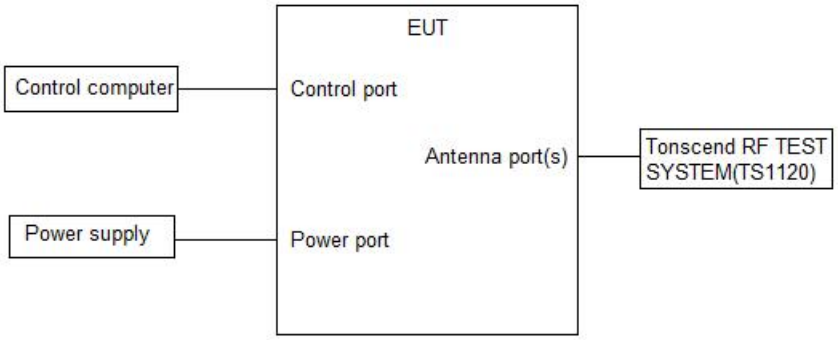
	sensor)					
Software						
Used	Description	Manufacturer	Name		Version	
☑	Test software	Tonscend	JS1120-3		V3.3.10	
RSE Test System						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
☑	EMI Receiver	R&S	ESR26	101424	Sep. 14, 2024	Sep. 13, 2025
☑	Hybrid Antenna	Schwarzbeck	VULB9163	01416	May. 22, 2024	May. 21, 2025
☑	Horn Antenna 1	Schwarzbeck	BBHA 9120 D	02910	Sep. 11, 2024	Sep. 10, 2025
☑	Horn Antenna 2	ETS	BBHA 9170	1090	Sep. 11, 2024	Sep. 10, 2025
☑	loop-antenna	Schwarzbeck	FMZB 1513-60	00030	Jan. 14, 2025	Jan. 13, 2026
☑	Test path	/	Path2: WIFI-2.4G 1-3GHz	/	Aug. 23, 2024	Aug. 22, 2025
☑	Test path	/	Path7: ALL PASS 1-18GHz	/	Aug. 23, 2024	Aug. 22, 2025
☑	Test path	/	Path9: 3GHz High PASS 3-18GHz	/	Aug. 23, 2024	Aug. 22, 2025
☑	Test path	/	Path16: 30MHz-1GHz ALL PASS NO AMP	/	Aug. 23, 2024	Aug. 22, 2025
☑	Signal Pre-Amplifier	ETS	3116C-PA	00217677	Sep. 06, 2024	Sep. 05, 2025
☑	3m Fully-anechoic Chamber	YIHENG	9m*6m*6m	001	Sep. 05, 2023	Sep. 04, 2026
Software						
Used	Description	Manufacturer	Name		Version	
☑	Test software	Tonscend	TS+		V5.0.0.0	
Conducted Emission Test For AC Power Port						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
☑	LISN	R&S	ENV216	102509	Aug. 22, 2024	Aug. 21, 2025
☑	EMI Receiver	R&S	ESR	102154	Aug. 22, 2024	Aug. 21, 2025
Software						
Used	Description	Manufacturer	Name		Version	
☑	Test software	EZ	EZ-EMC		EMEC-3A1	
Other Instrument						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
☑	Temperature & Humidity	Temperature	HTC-1	/	Sep. 04, 2024	Sep. 03, 2025

8. On Time and Duty Cycle

8.1. Block diagram of test setup



8.2. Limits

None; for reporting purposes only

8.3. Procedure

KDB 558074 Zero-Span Spectrum Analyzer Method

8.4. Results

Test Mode	Ant.	Freq. (MHz)	Transmission Duration (ms)	Transmission Period (ms)	Duty Cycle (%)
11B	Ant1	2412	8.48	8.60	98.60
	Ant2	2412	8.48	8.55	99.18
	Ant1	2437	8.48	8.63	98.26
	Ant2	2437	8.48	8.61	98.49
	Ant1	2462	8.48	8.56	99.07
	Ant2	2462	8.48	8.60	98.60
11G	Ant1	2412	1.40	1.52	92.11
	Ant2	2412	1.40	1.57	89.17
	Ant1	2437	1.40	1.46	95.89
	Ant2	2437	1.40	1.56	89.74
	Ant1	2462	1.40	1.49	93.96
	Ant2	2462	1.41	1.46	96.58
11N20MIMO	Ant1	2412	1.32	1.45	91.03
	Ant2	2412	1.31	1.45	90.34
	Ant1	2437	1.31	1.48	88.51
	Ant2	2437	1.32	1.41	93.62
	Ant1	2462	1.32	1.43	92.31
	Ant2	2462	1.32	1.64	80.49
11N40MIMO	Ant1	2422	0.65	0.81	80.25
	Ant2	2422	0.65	0.81	80.25
	Ant1	2437	0.65	0.84	77.38
	Ant2	2437	0.65	0.85	76.47
	Ant1	2452	0.65	0.81	80.25
	Ant2	2452	0.65	0.82	79.27

Note: Duty Cycle Correction Factor = 10log (1/x).
Where: x is Duty Cycle (Linear)
Where: T is On Time
If that calculated VBW is not available on the analyzer, then the next higher value should be used.

For mode 11b, the duty cycle is greater than 98 %, so it can set VBW to 10 Hz.

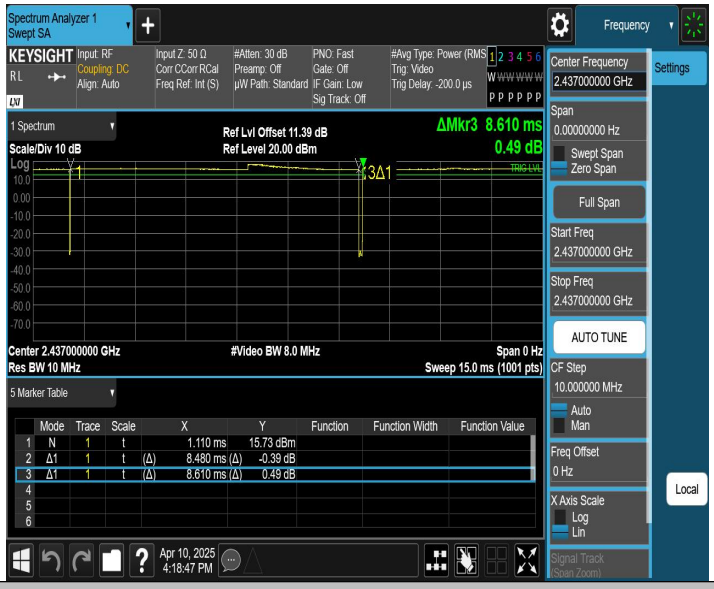
8.5. Original test data

11B_Ant1_2412

11B_Ant2_2412

11B_Ant1_2437

11B_Ant2_2437

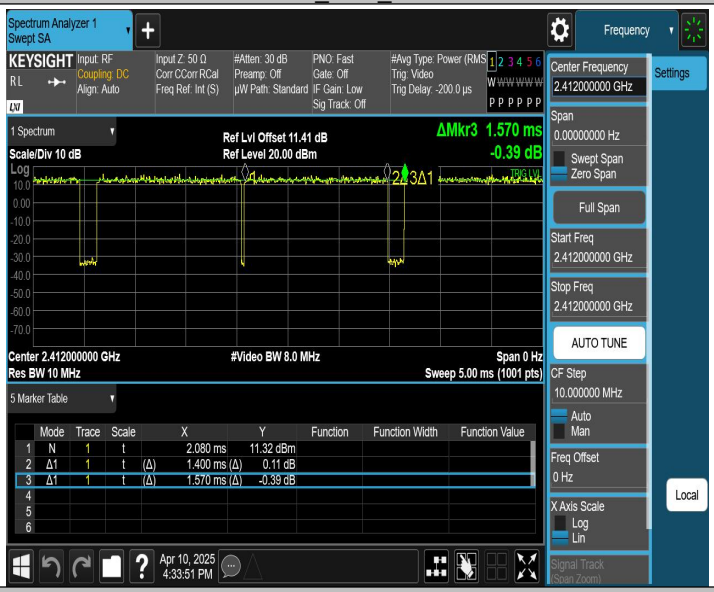


11B_Ant1_2462

11B_Ant2_2462

11G_Ant1_2412

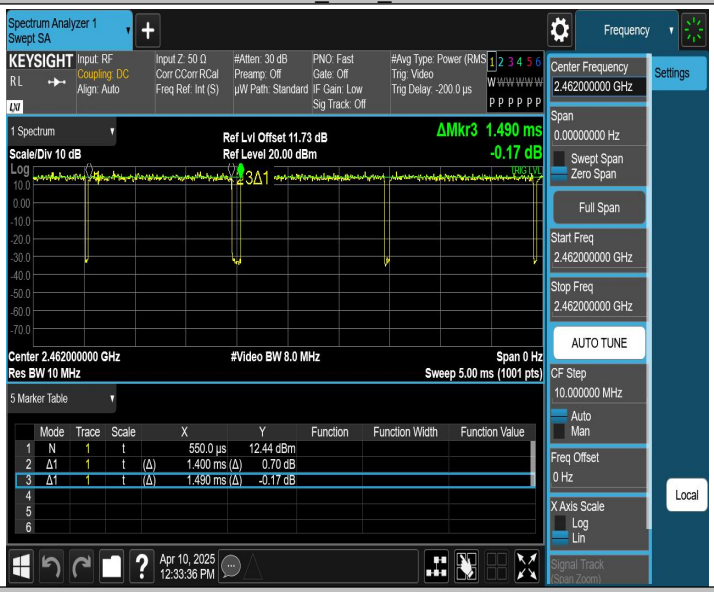
11G_Ant2_2412



11G_Ant1_2437

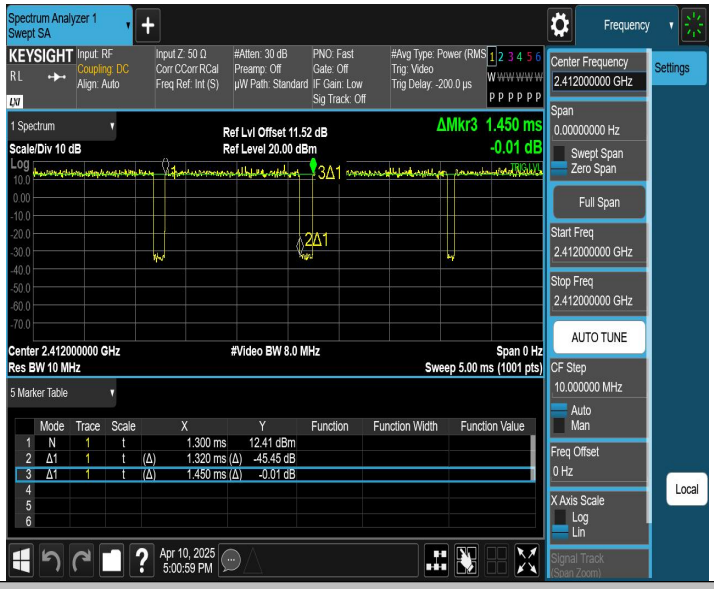
11G_Ant2_2437

11G_Ant1_2462



11G_Ant2_2462

11N20MIMO_Ant1_2412



11N20MIMO_Ant2_2412

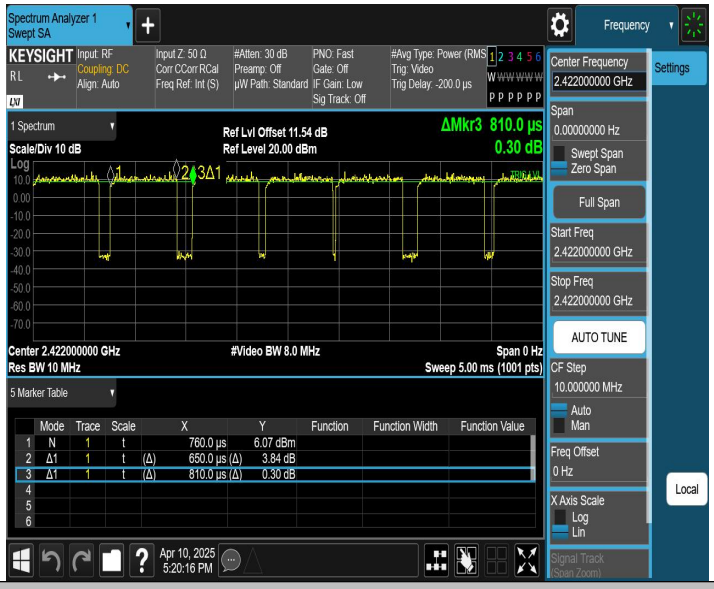
11N20MIMO_Ant1_2437

11N20MIMO_Ant2_2437

11N20MIMO_Ant1_2462

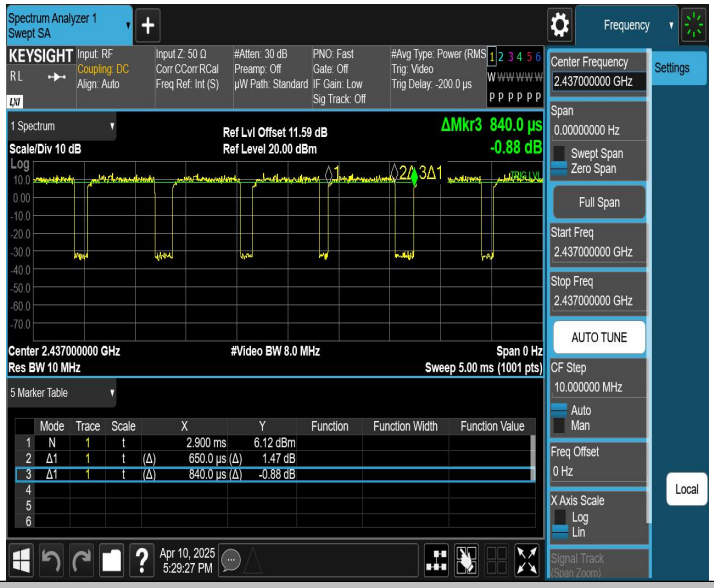
11N20MIMO_Ant2_2462

11N40MIMO_Ant1_2422



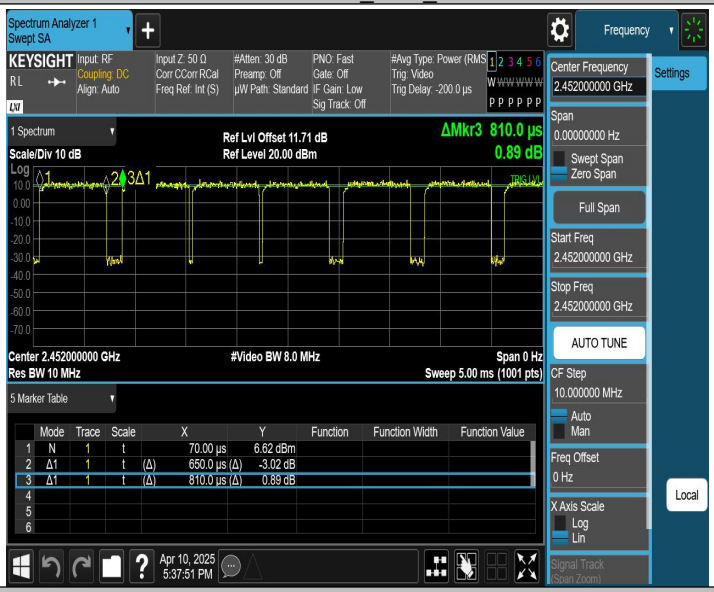
11N40MIMO_Ant2_2422

11N40MIMO_Ant1_2437



11N40MIMO_Ant2_2437

11N40MIMO_Ant1_2452



11N40MIMO_Ant2_2452