

10.8.4. Test results

Test Date (yy-mm-dd): 2024-01-25~01-29

Normal condition: Temp: 20.6~22.1°C, Humid: 14~35%, Atmospheric Pressure:101kpa

Supply Voltage: DC +24V

10.8.4.1. Downlink transmit mode

Test frequency		Intermodulation product Limit (dBm)	Max. intermodulation product (dBm)	Margin (dB)	Result
(1) With the ALC threshold level					
Channel Bandwidth: 6.25kHz	Low frequency: f1:450.00313MHz f2:450.00938MHz	-13.0	-17.1	4.1	PASS
	Mid frequency: f1:479.0MHz f2:479.00625MHz	-13.0	-14.1	1.1	PASS
	High frequency: f1:508.99063MHz f2:508.99688MHz	-13.0	-18.3	5.3	PASS
Channel Bandwidth: 12.5kHz	Low frequency: f1:450.00625MHz f2:450.01875MHz	-13.0	-14.0	1.0	PASS
	Mid frequency: f1:479.0MHz f2:479.0125MHz	-13.0	-14.9	1.9	PASS
	High frequency: f1:508.98125MHz f2:508.99375MHz	-13.0	-15.1	2.1	PASS
Channel Bandwidth: 25kHz	Low frequency: f1:450.0125MHz f2:450.0375MHz	-13.0	-18.1	5.1	PASS
	Mid frequency: f1:479.0MHz f2:479.025MHz	-13.0	-14.9	1.9	PASS
	High frequency: f1:508.9625MHz f2:508.9875MHz	-13.0	-15.1	2.1	PASS
(2) With the input signal amplitude set 3 dB above the AGC threshold					
Channel Bandwidth: 6.25kHz	Low frequency: f1:450.00313MHz f2:450.00938MHz	-13.0	-17.0	4.0	PASS
	Mid frequency: f1:479.0MHz f2:479.00625MHz	-13.0	-13.8	0.8	PASS
	High frequency: f1:508.99063MHz f2:508.99688MHz	-13.0	-21.9	8.9	PASS
Channel Bandwidth: 12.5kHz	Low frequency: f1:450.00625MHz f2:450.01875MHz	-13.0	-14.1	1.1	PASS
	Mid frequency: f1:479.0MHz f2:479.0125MHz	-13.0	-15.2	2.2	PASS
	High frequency: f1:508.98125MHz f2:508.99375MHz	-13.0	-15.2	2.2	PASS
Channel Bandwidth: 25kHz	Low frequency: f1:450.0125MHz f2:450.0375MHz	-13.0	-16.9	3.9	PASS

	Mid frequency: f1:479.0MHz f2:479.025MHz	-13.0	-15.0	2.0	PASS
	High frequency: f1:508.9625MHz f2:508.9875MHz	-13.0	-16.2	3.2	PASS
NOTE 1: Intermodulation products select the worst data record. NOTE 2: Margin= specification limit -Maximum mark level.					

## 10.8.4.2. Uplink transmit mode

Test frequency	Intermodulation product Limit (dBm)	Max. intermodulation product (dBm)	Margin (dB)	Result	
(3) With the ALC threshold level					
Channel Bandwidth: 6.25kHz	Low frequency: f1:455.00313MHz f2:455.00938MHz	-13.0	-21.7	8.7	PASS
	Mid frequency: f1:484.0MHz f2:484.00625MHz	-13.0	-23.3	10.3	PASS
	High frequency: f1:511.99063MHz f2:511.99688MHz	-13.0	-24.0	11.0	PASS
Channel Bandwidth: 12.5kHz	Low frequency: f1:455.00625MHz f2:455.01875MHz	-13.0	-24.8	11.8	PASS
	Mid frequency: f1:484.0MHz f2:484.0125MHz	-13.0	-25.6	12.6	PASS
	High frequency: f1:511.98125MHz f2:511.99375MHz	-13.0	-24.7	11.7	PASS
Channel Bandwidth: 25kHz	Low frequency: f1:455.0125MHz f2:455.0375MHz	-13.0	-23.4	10.4	PASS
	Mid frequency: f1:484.0MHz f2:484.025MHz	-13.0	-28.1	15.1	PASS
	High frequency: f1:511.9625MHz f2:511.9875MHz	-13.0	-26.2	13.2	PASS
(4) With the input signal amplitude set 3 dB above the AGC threshold					
Channel Bandwidth: 6.25kHz	Low frequency: f1:455.00313MHz f2:455.00938MHz	-13.0	-23.7	10.7	PASS
	Mid frequency: f1:484.0MHz f2:484.00625MHz	-13.0	-25.1	12.1	PASS
	High frequency: f1:511.99063MHz f2:511.99688MHz	-13.0	-23.9	10.9	PASS
Channel Bandwidth: 12.5kHz	Low frequency: f1:455.00625MHz f2:455.01875MHz	-13.0	-25.1	12.1	PASS
	Mid frequency: f1:484.0MHz f2:484.0125MHz	-13.0	-25.6	12.6	PASS
	High frequency: f1:511.98125MHz f2:511.99375MHz	-13.0	-22.2	9.2	PASS

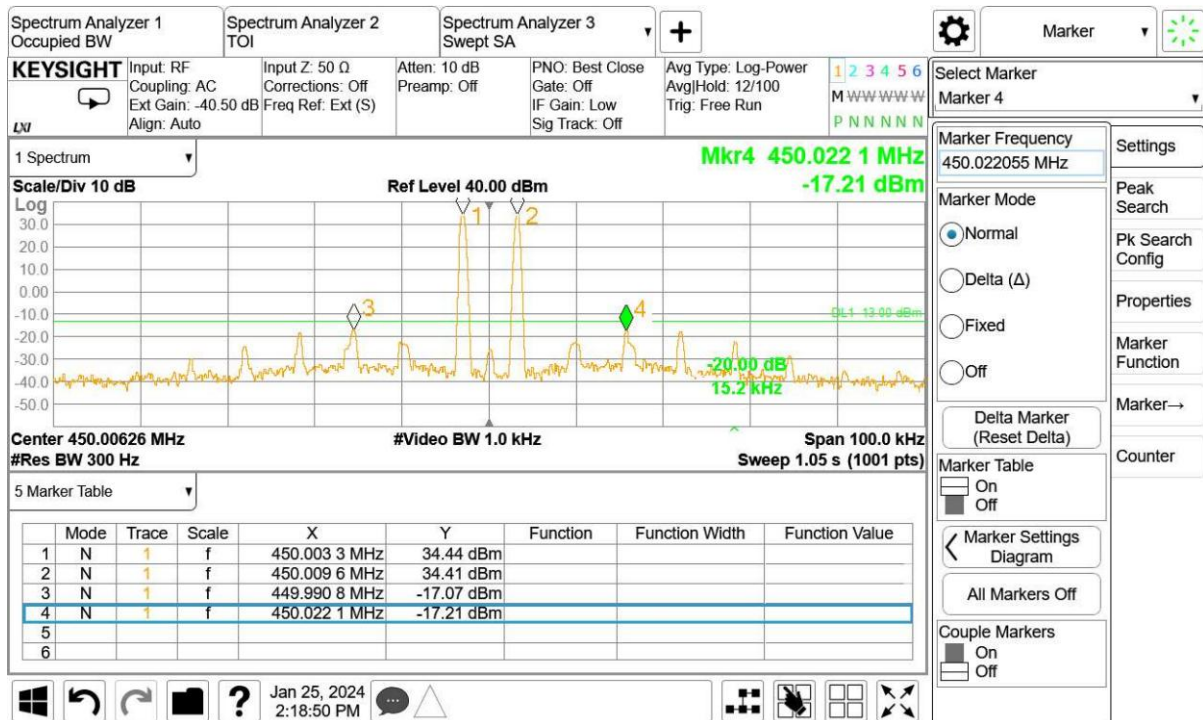
Channel Bandwidth: 25kHz	Low frequency: f1:455.0125MHz f2:455.0375MHz	-13.0	-23.6	10.6	PASS
	Mid frequency: f1:484.0MHz f2:484.025MHz	-13.0	-27.8	14.8	PASS
	High frequency: f1:511.9625MHz f2:511.9875MHz	-13.0	-25.7	12.7	PASS
NOTE 1: Intermodulation products select the worst data record. NOTE 2: Margin= specification limit -Maximum mark level.					

———— The following blanks ————

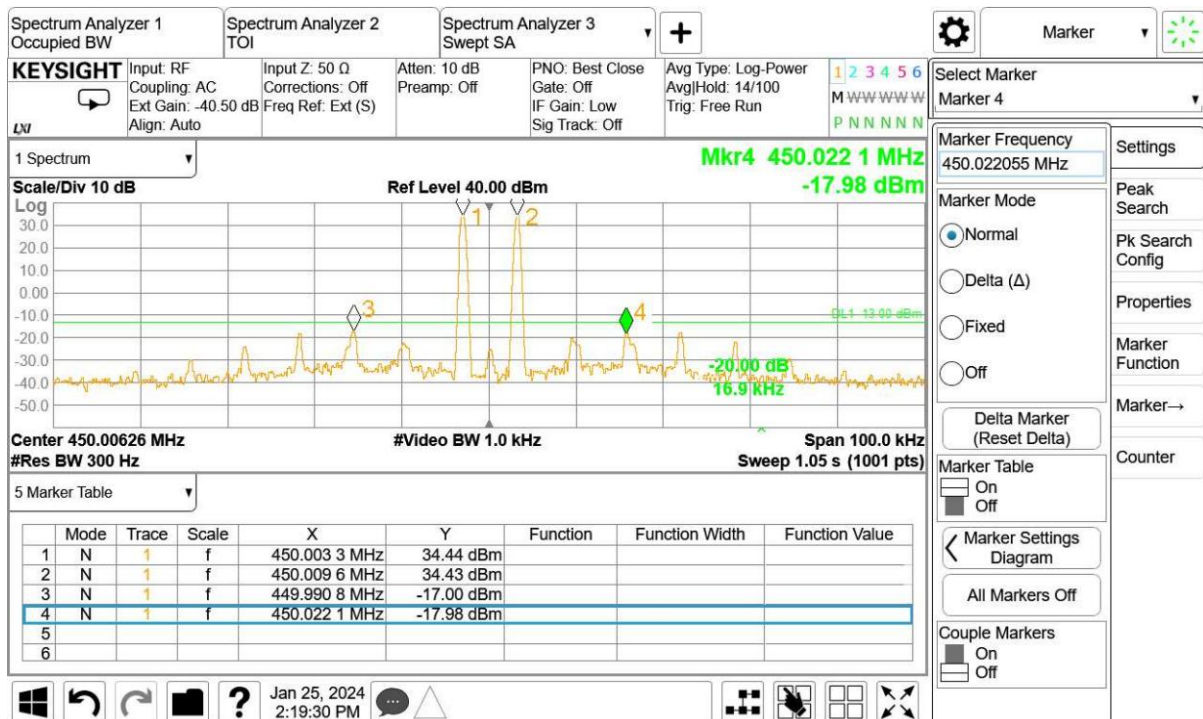
10.8.5. Test screenshot

10.8.5.1. Downlink transmit mode

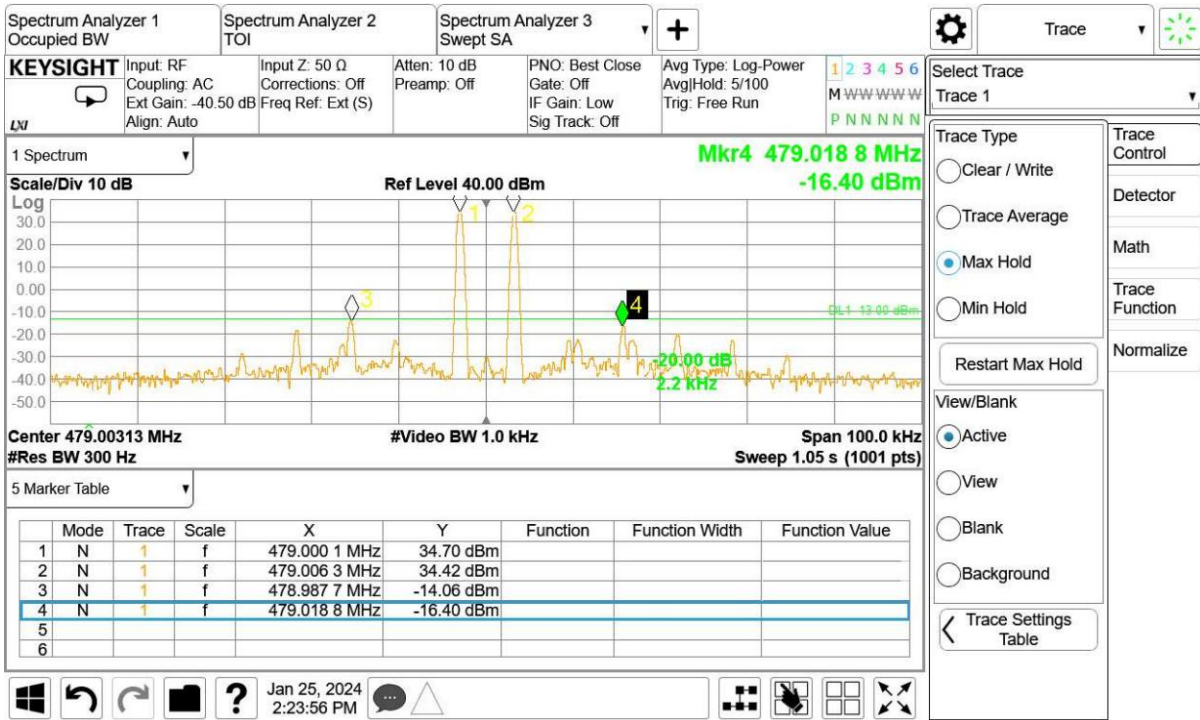
10.8.5.1.1. Channel Bandwidth:6.25kHz



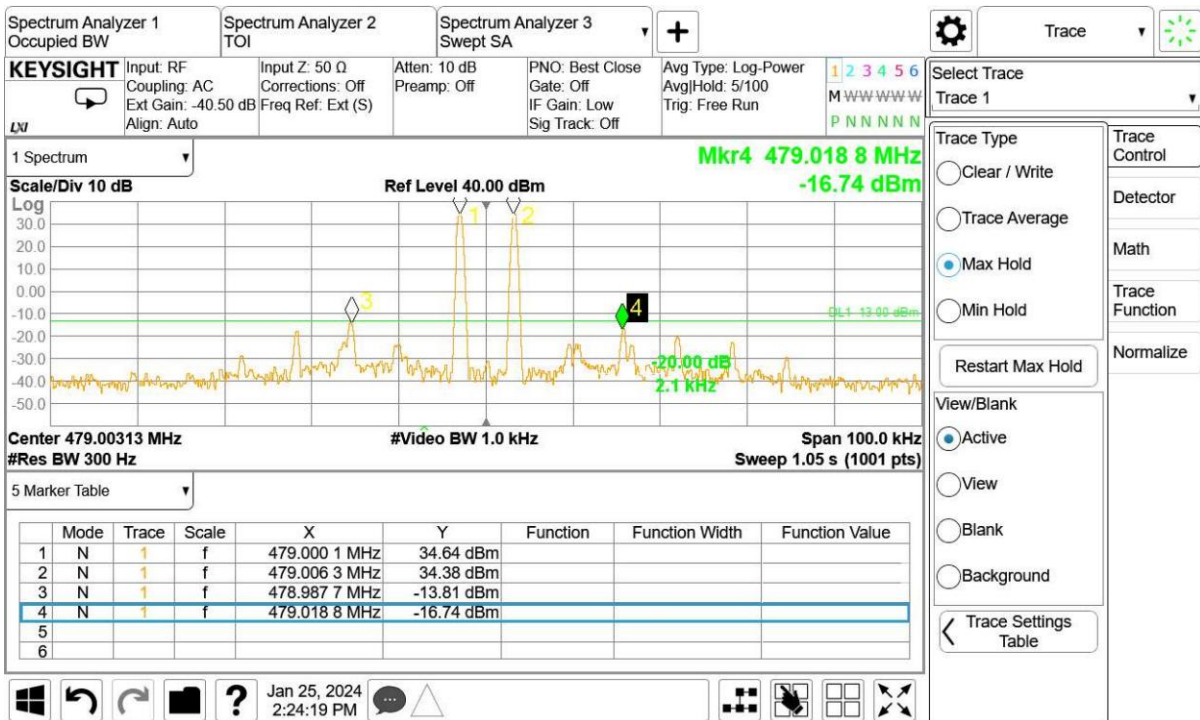
Low Frequency and With the ALC threshold level



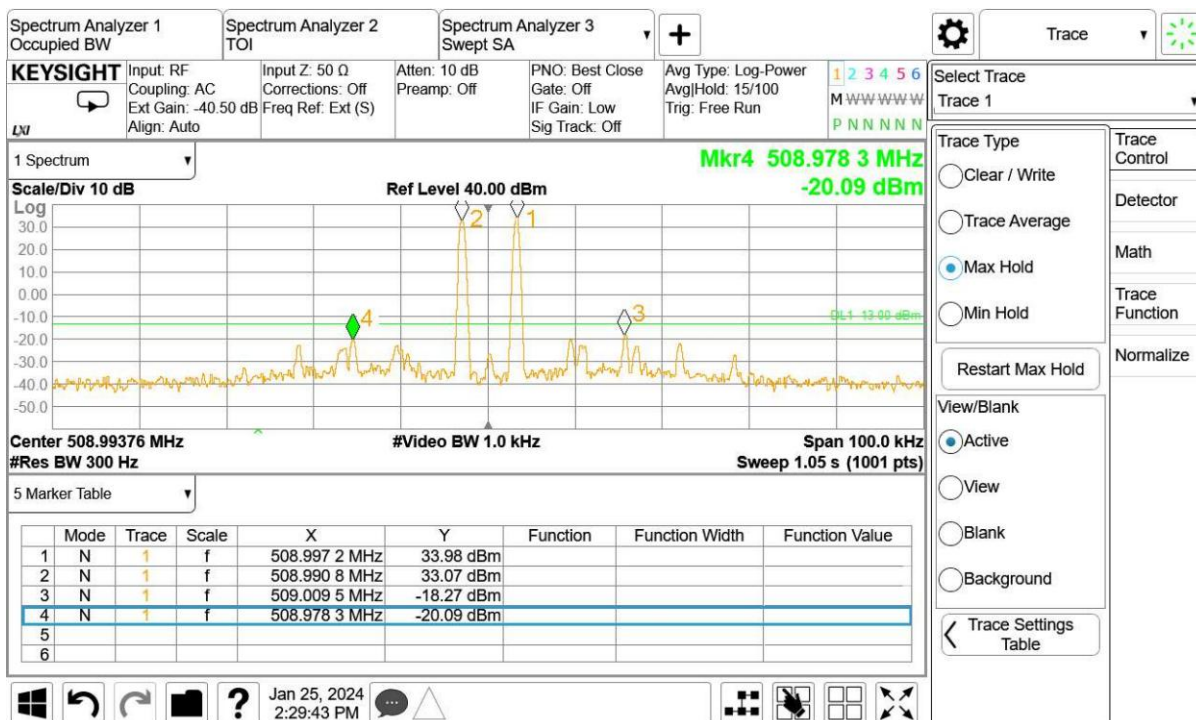
Low Frequency and With the input signal amplitude set 3 dB above the ALC threshold



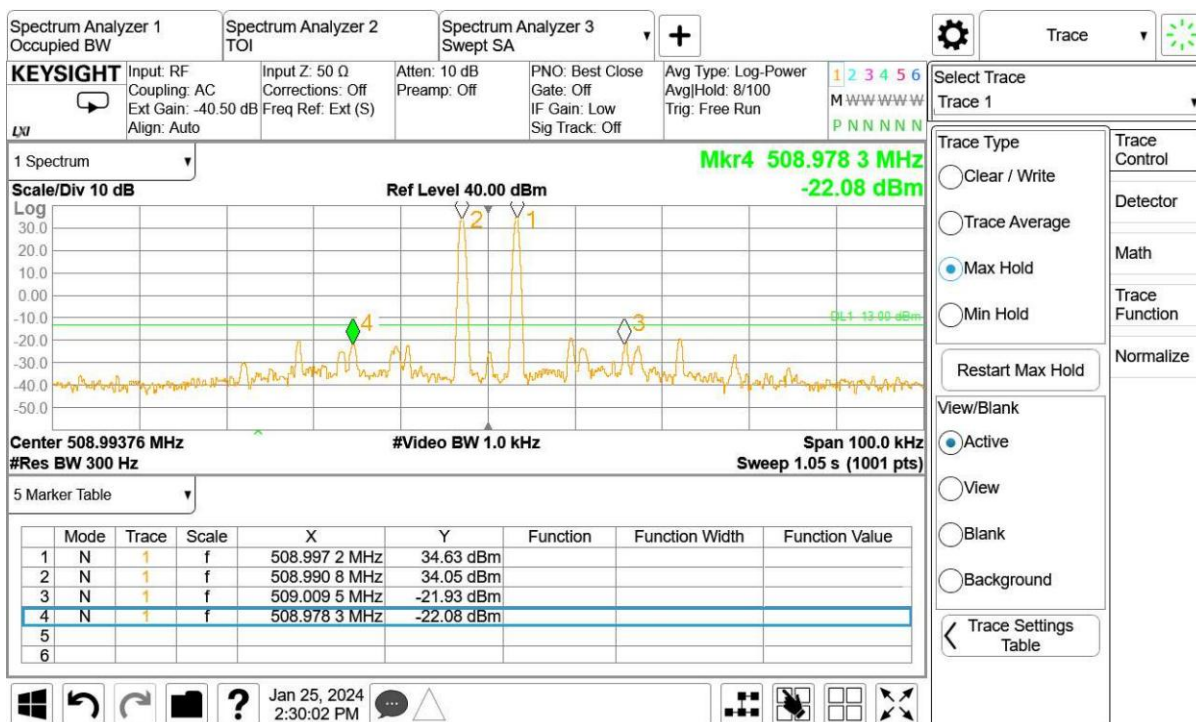
Mid Frequency and With the ALC threshold level



Mid Frequency and With the input signal amplitude set 3 dB above the ALC threshold



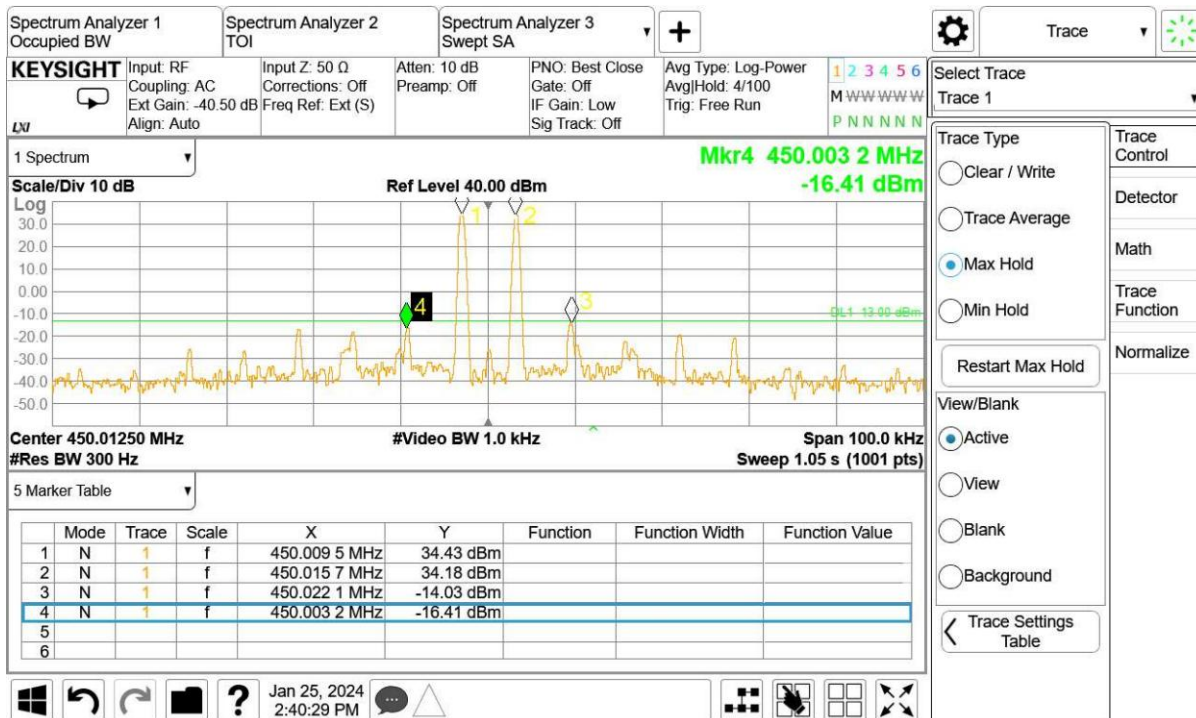
High Frequency and With the ALC threshold level



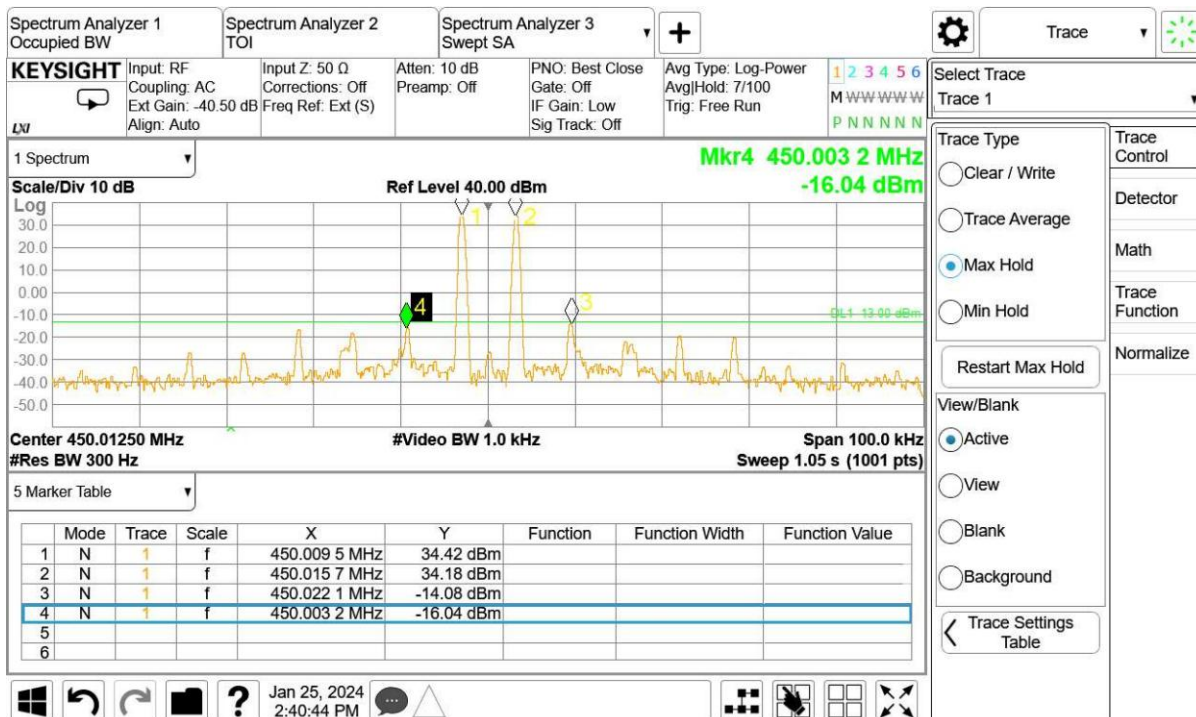
High Frequency and With the input signal amplitude set 3 dB above the ALC threshold



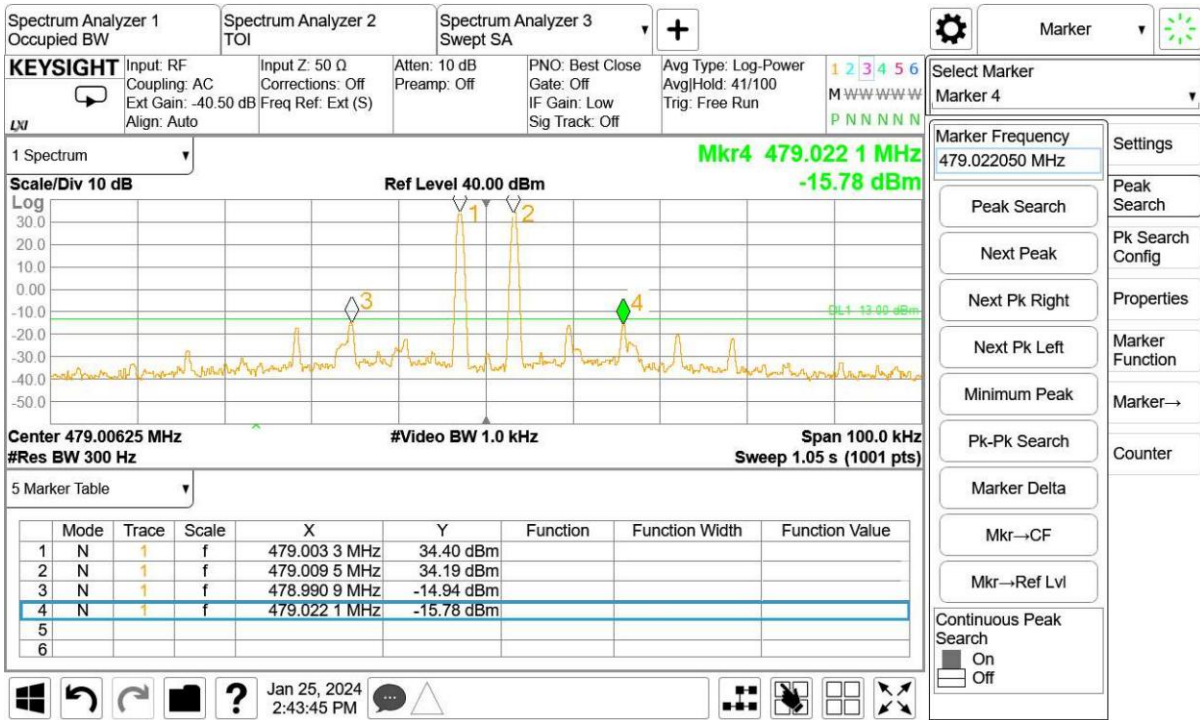
10.8.5.1.2. Channel Bandwidth:12.5kHz



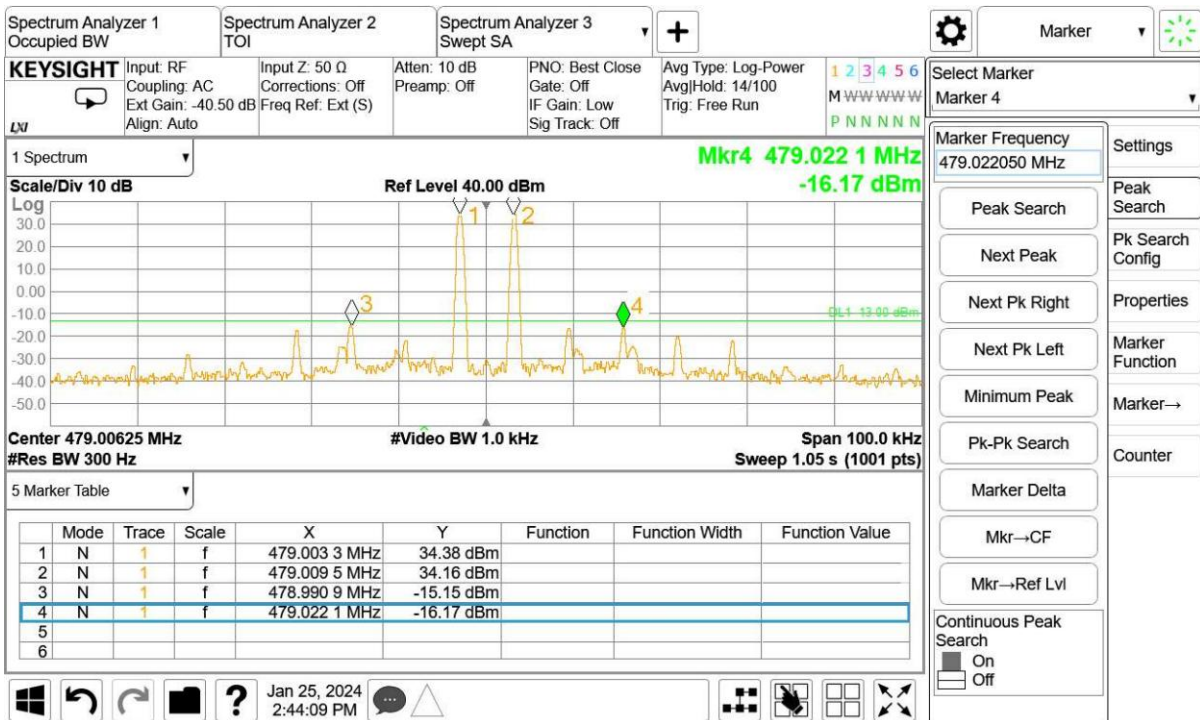
Low Frequency and With the ALC threshold level



Low Frequency and With the input signal amplitude set 3 dB above the ALC threshold

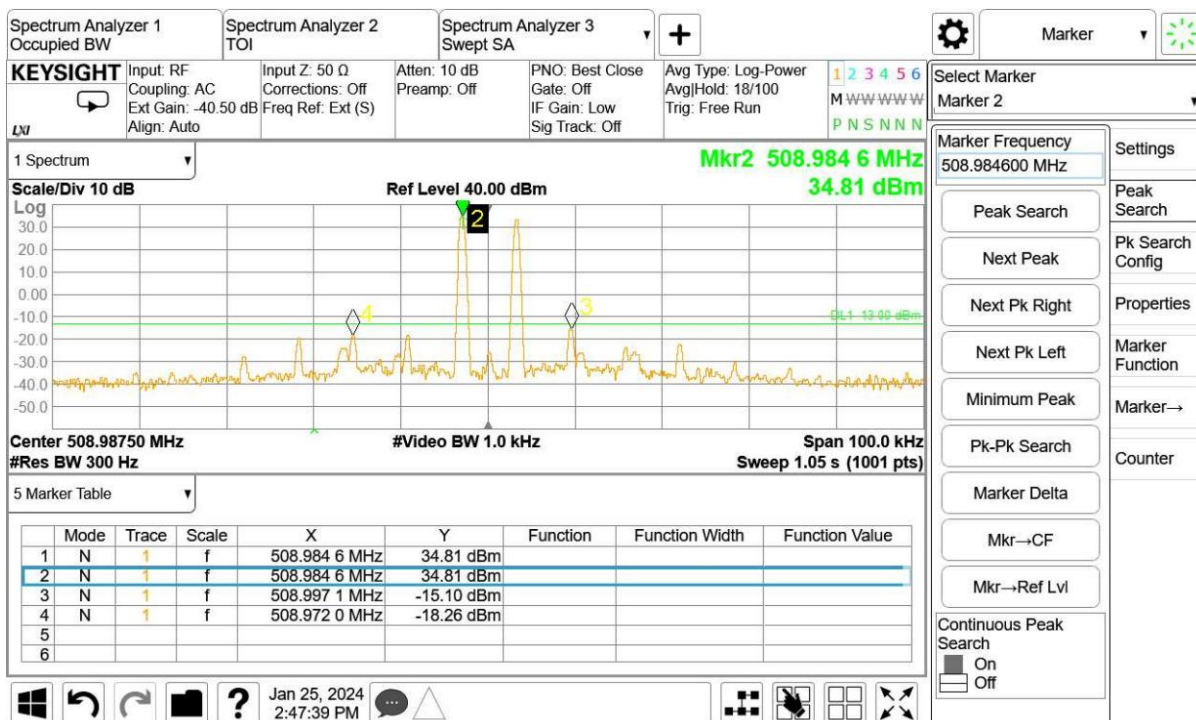


Mid Frequency and With the ALC threshold level



Mid Frequency and With the input signal amplitude set 3 dB above the ALC threshold





High Frequency and With the ALC threshold level



High Frequency and With the input signal amplitude set 3 dB above the ALC threshold

10.8.5.1.3. Channel Bandwidth: 25kHz



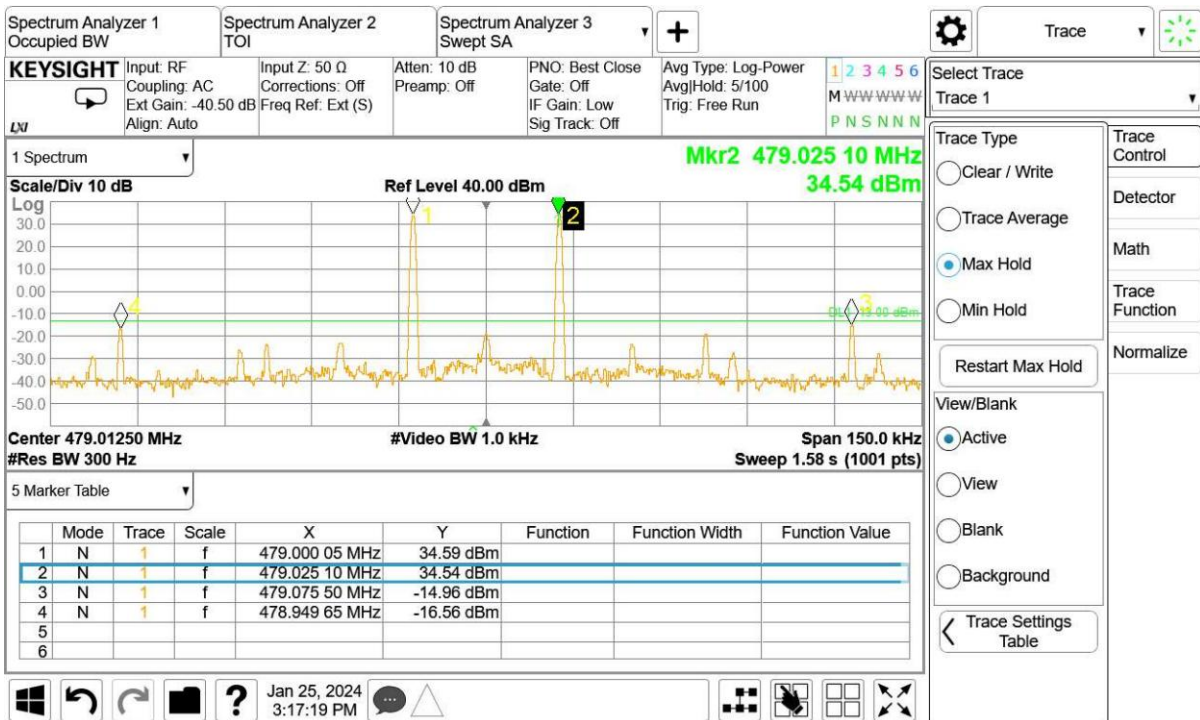
Low Frequency and With the ALC threshold level



Low Frequency and With the input signal amplitude set 3 dB above the ALC threshold

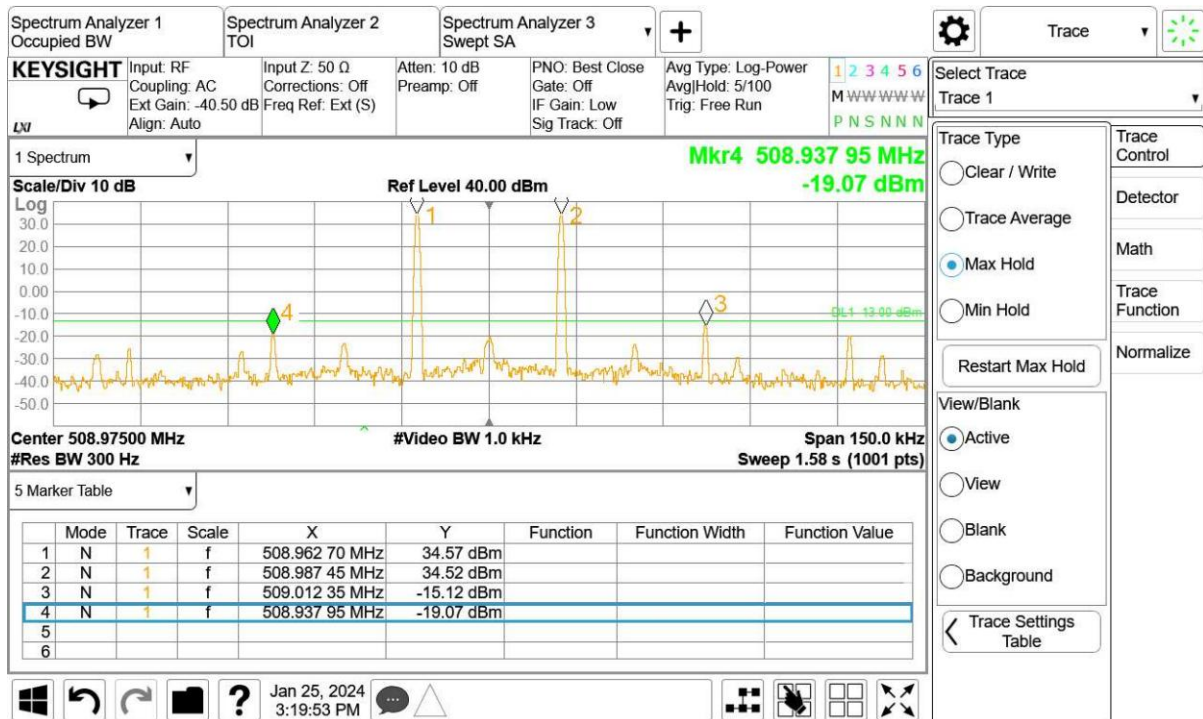


Mid Frequency and With the ALC threshold level

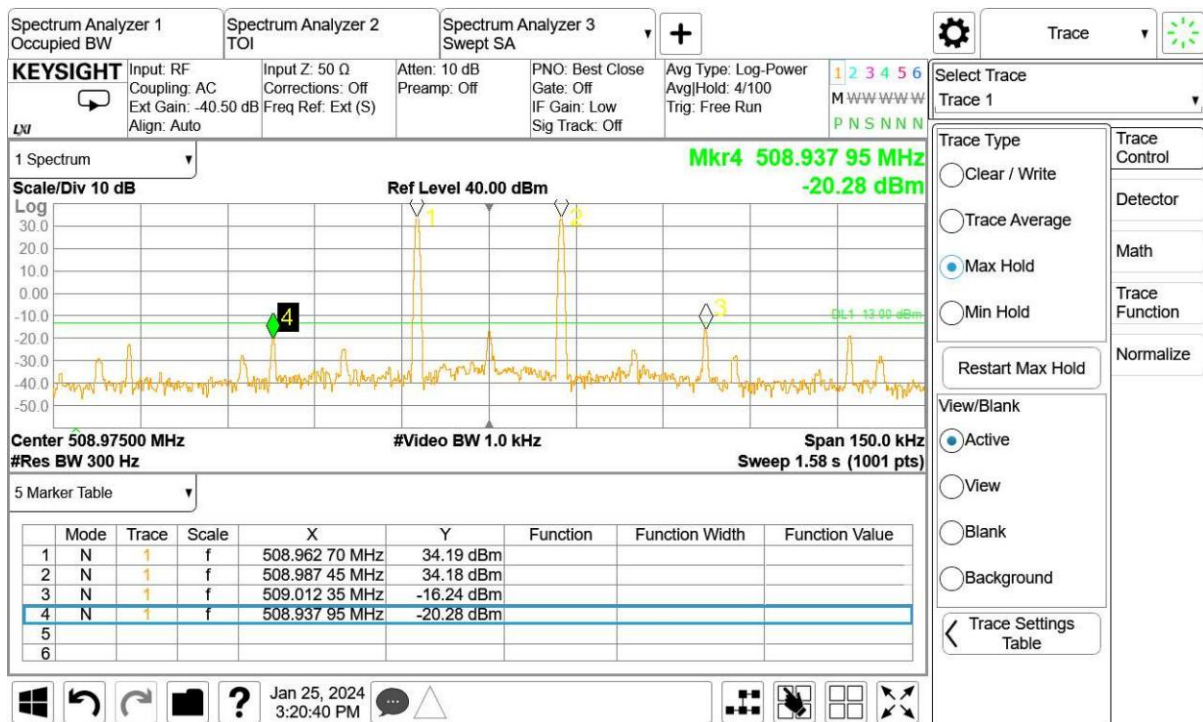


Mid Frequency and With the input signal amplitude set 3 dB above the ALC threshold





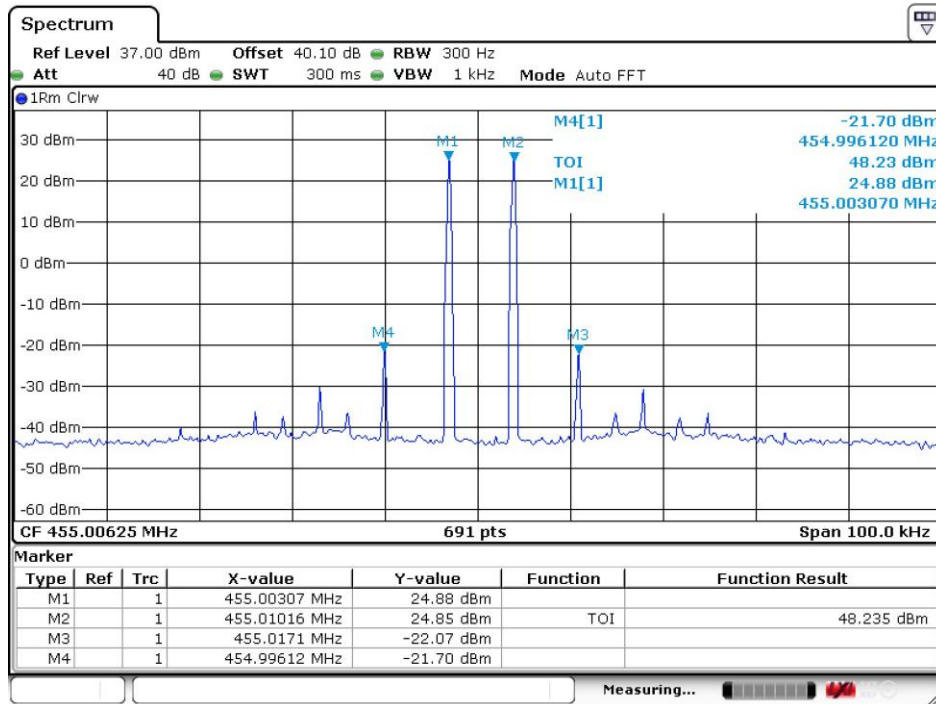
High Frequency and With the ALC threshold level



High Frequency and With the input signal amplitude set 3 dB above the ALC threshold

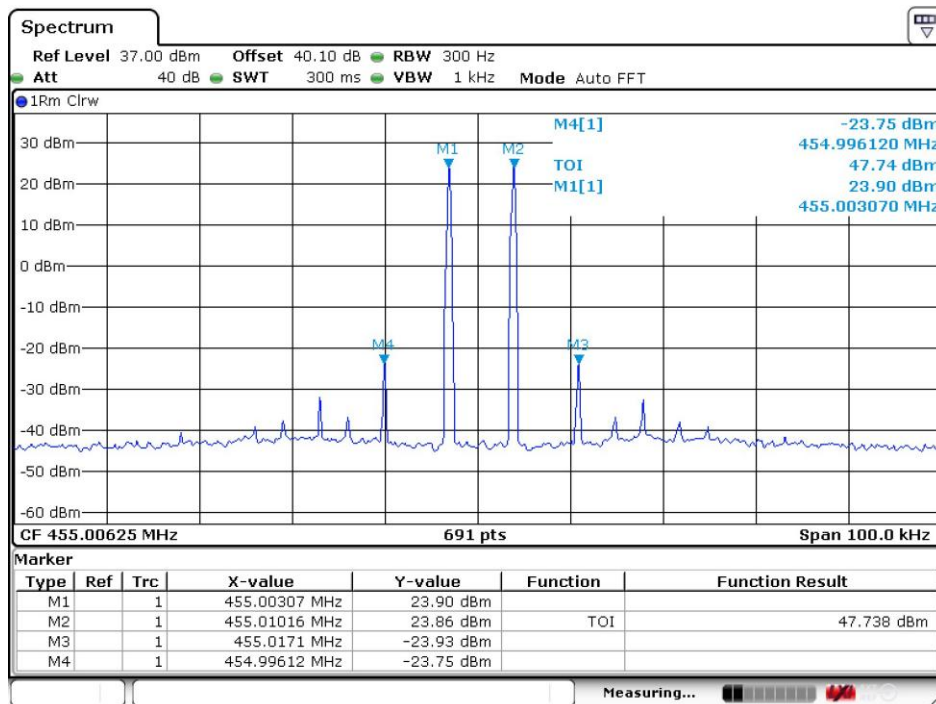
10.8.5.2. Uplink transmit mode

10.8.5.2.1. Channel Bandwidth:6.25kHz



Date: 29.JAN.2024 16:22:01

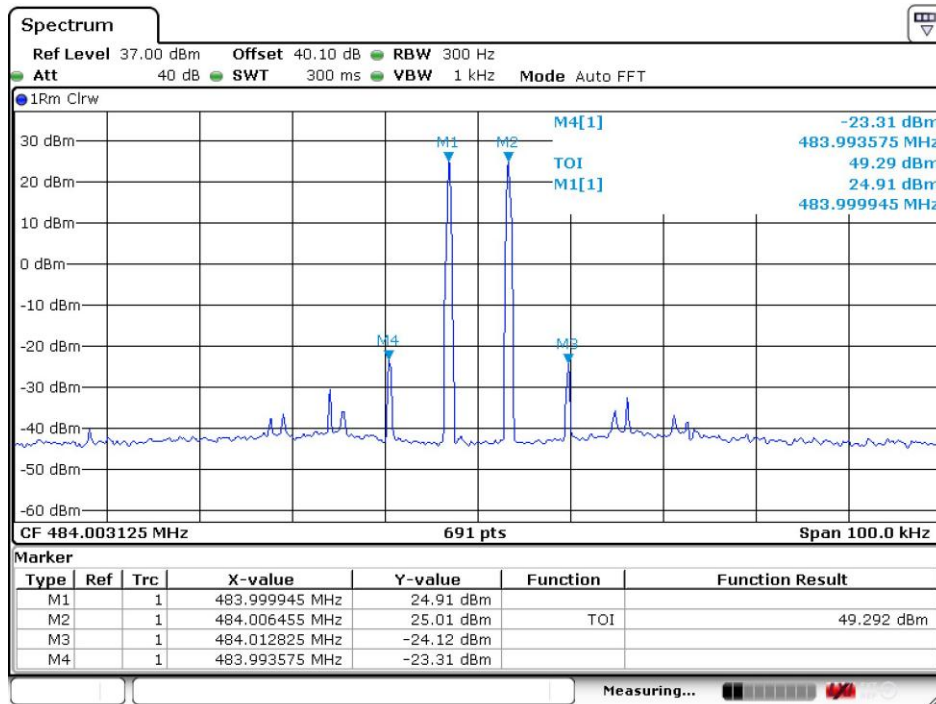
Low Frequency and With the ALC threshold level



Date: 29.JAN.2024 16:22:43

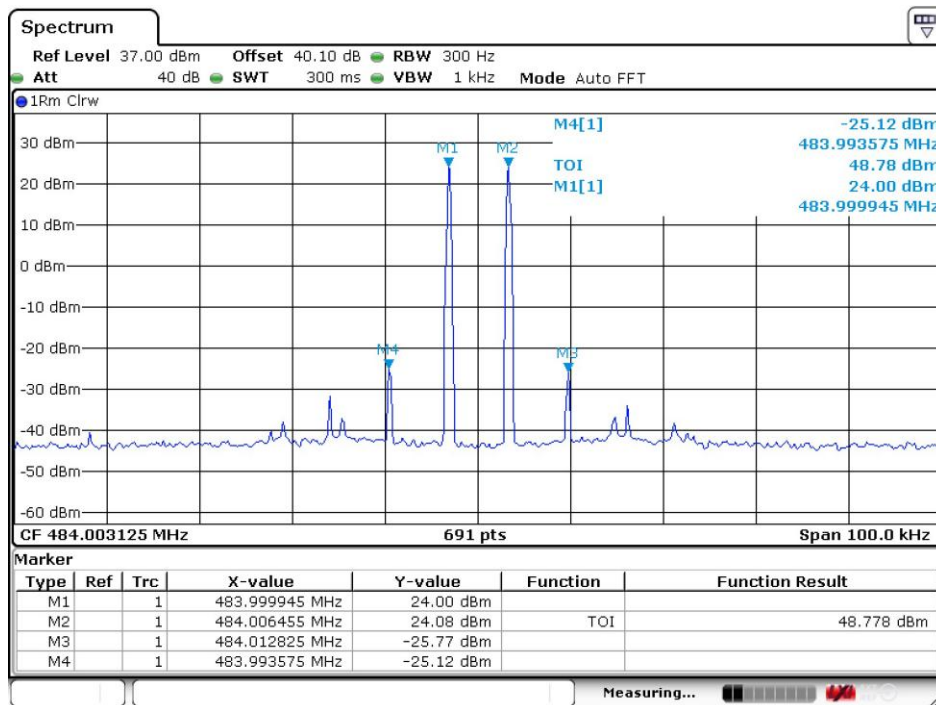
Low Frequency and With the input signal amplitude set 3 dB above the ALC threshold





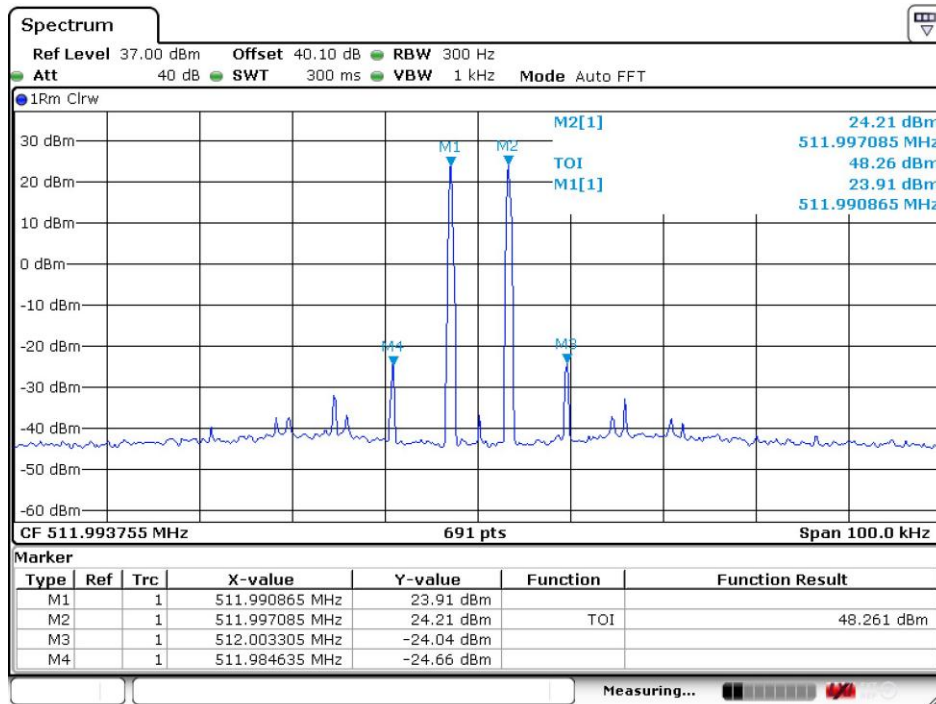
Date: 29 JAN 2024 16:25:53

Mid Frequency and With the ALC threshold level



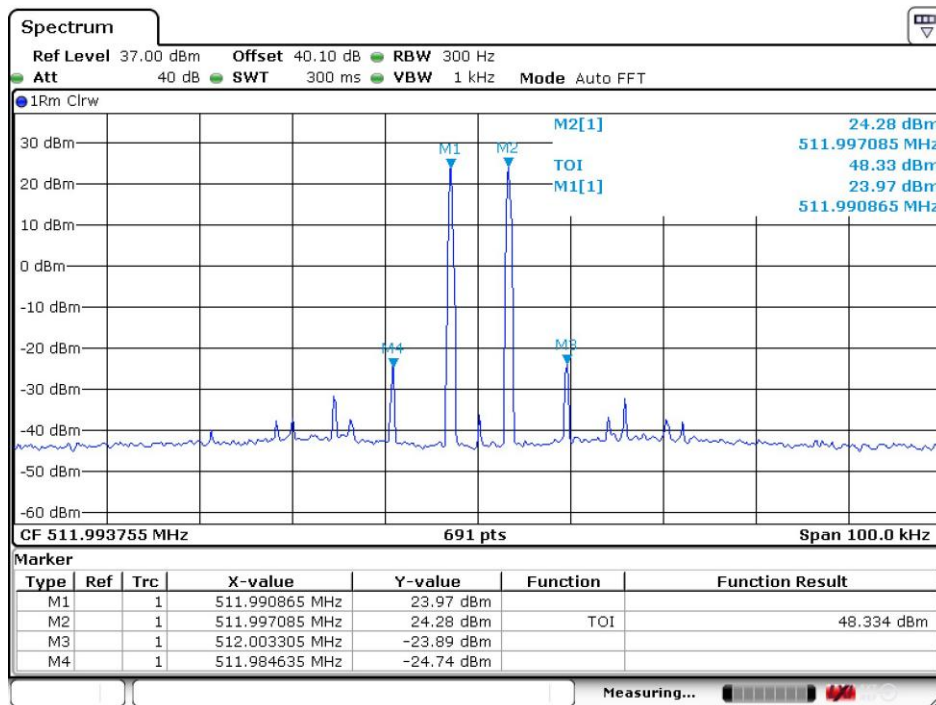
Date: 29 JAN 2024 16:26:23

Mid Frequency and With the input signal amplitude set 3 dB above the ALC threshold



Date: 29 JAN 2024 16:30:01

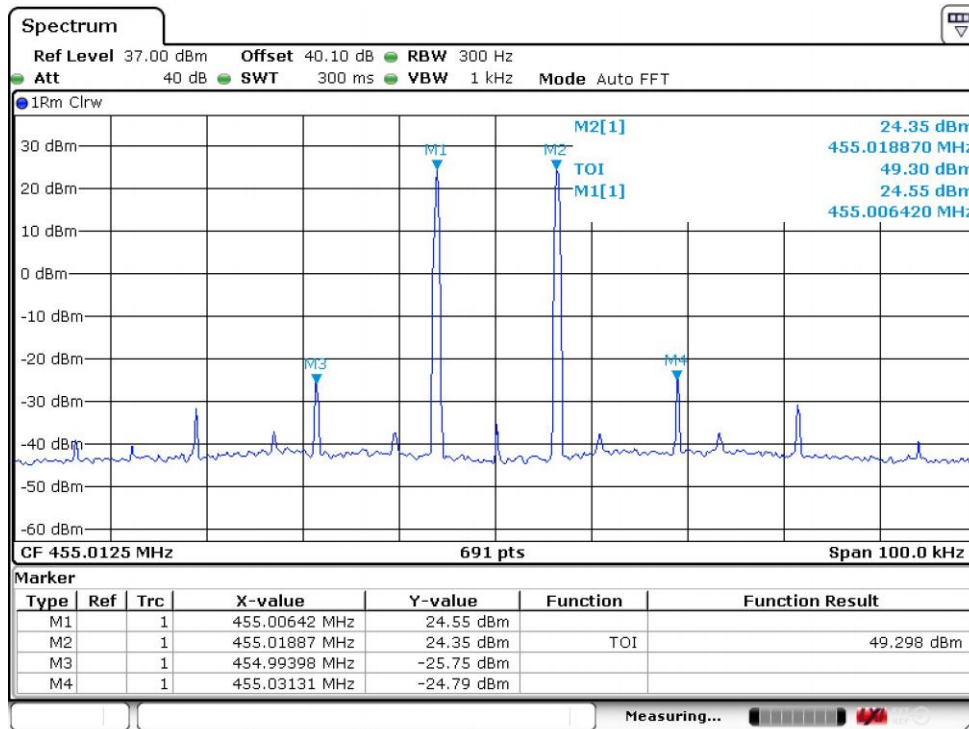
High Frequency and With the ALC threshold level



Date: 29 JAN 2024 16:30:27

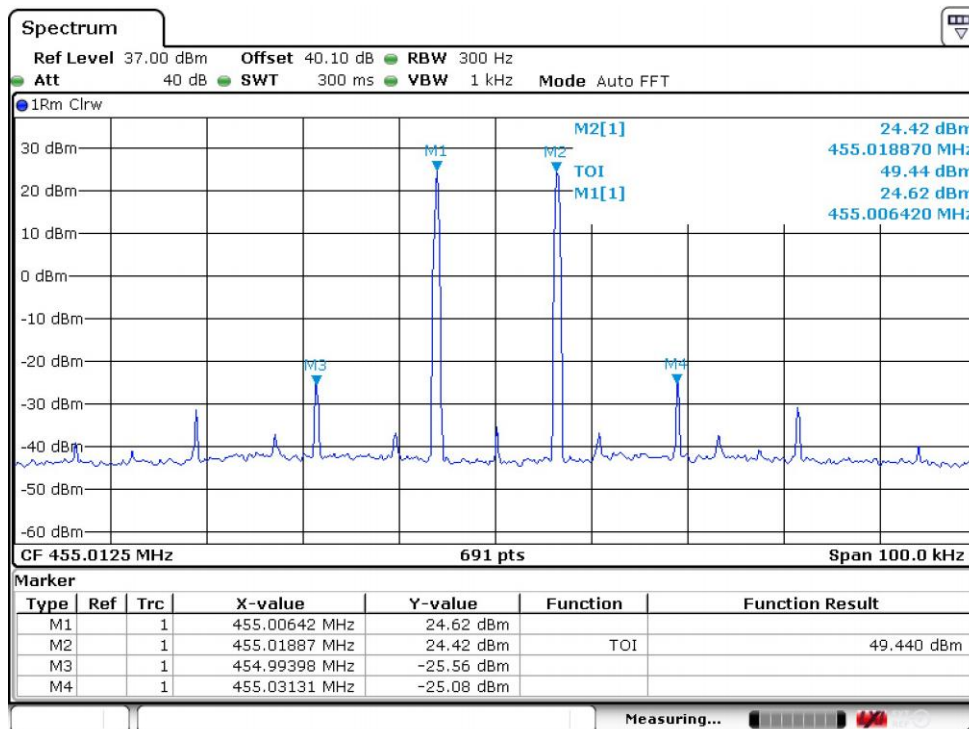
High Frequency and With the input signal amplitude set 3 dB above the ALC threshold

10.8.5.2.2. Channel Bandwidth:12.5kHz



Date: 29.JAN.2024 16:39:51

Low Frequency and With the ALC threshold level



Date: 29.JAN.2024 16:40:00

Low Frequency and With the input signal amplitude set 3 dB above the ALC threshold