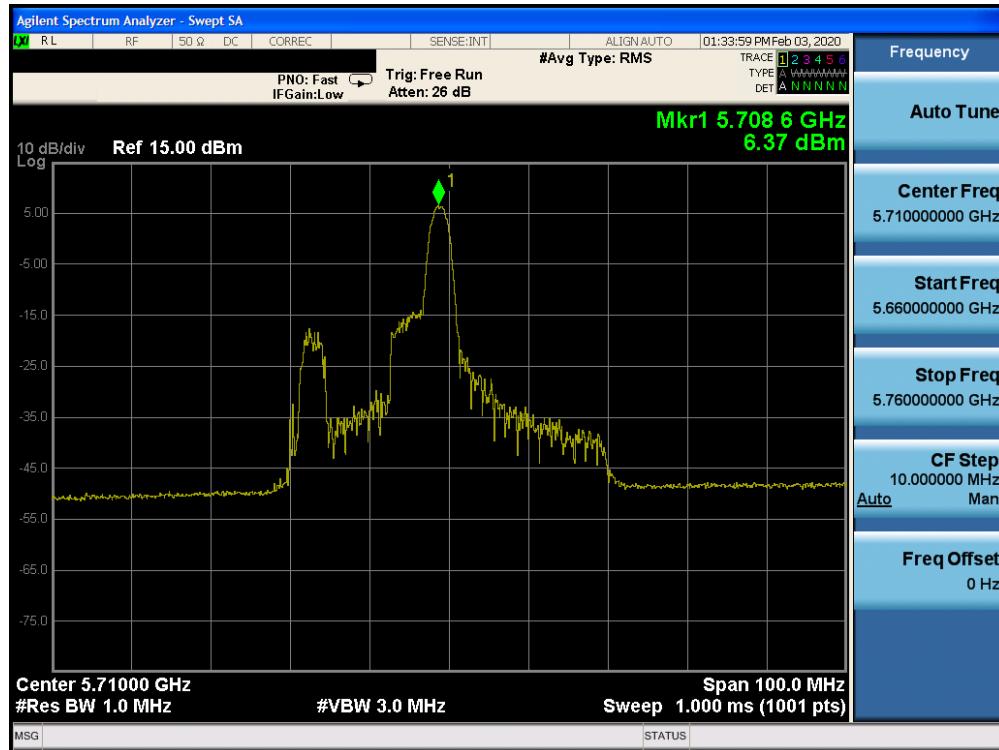
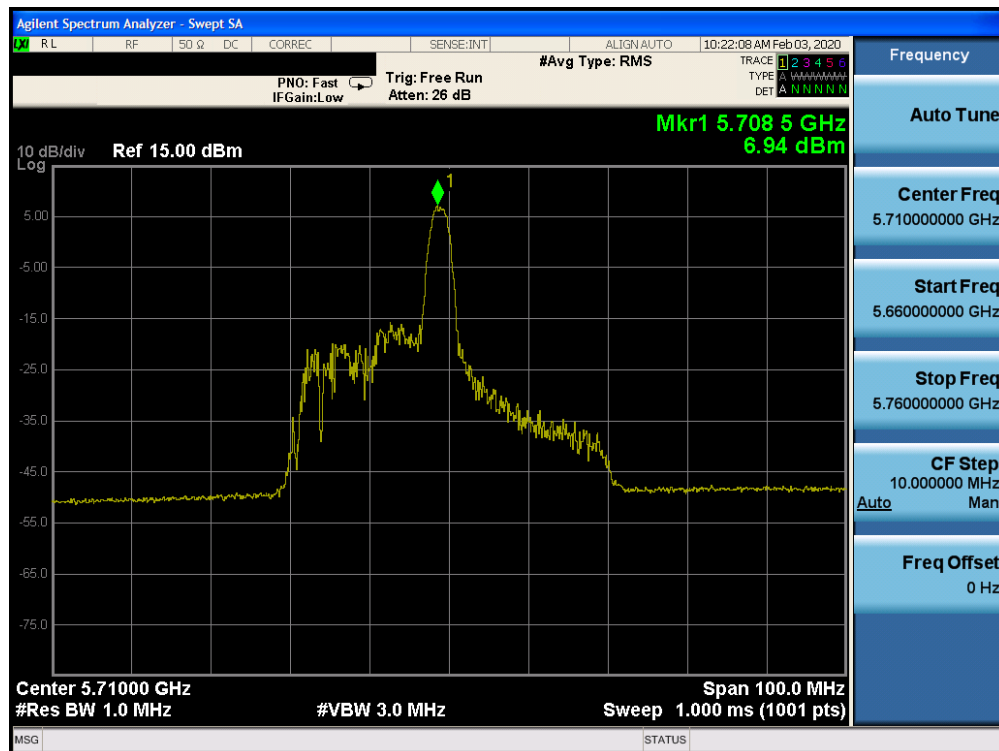


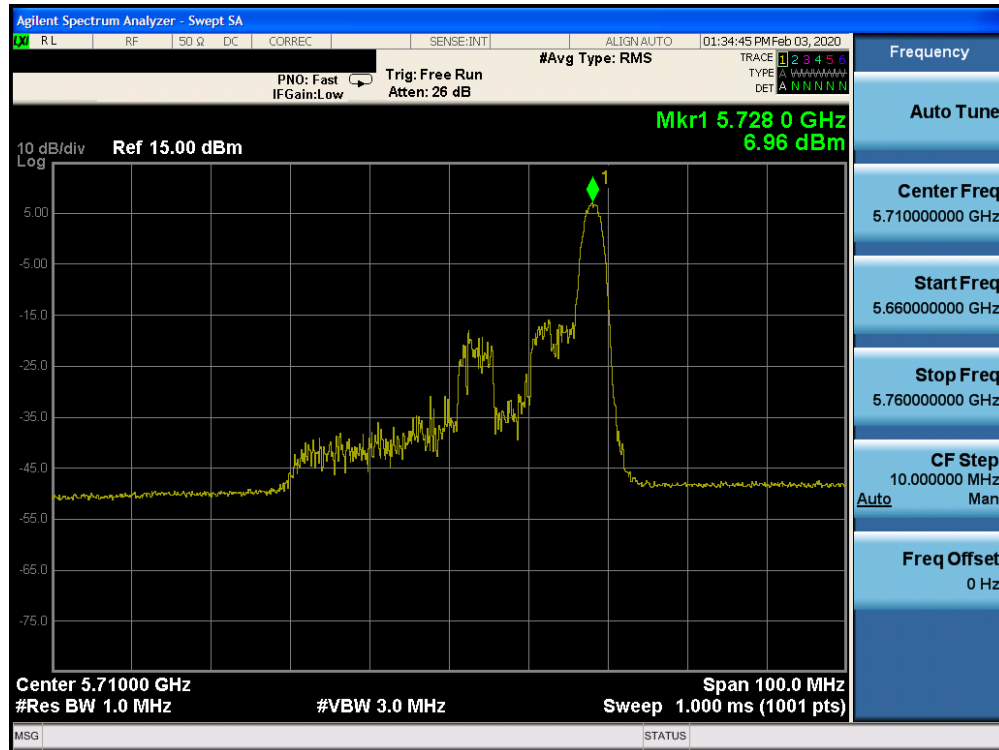


Plot 7-599. Power Spectral Density Plot SDM CORE 0 (40MHz BW 802.11ax Index 8 – RU26 (UNII Band 2C) – Ch. 142)

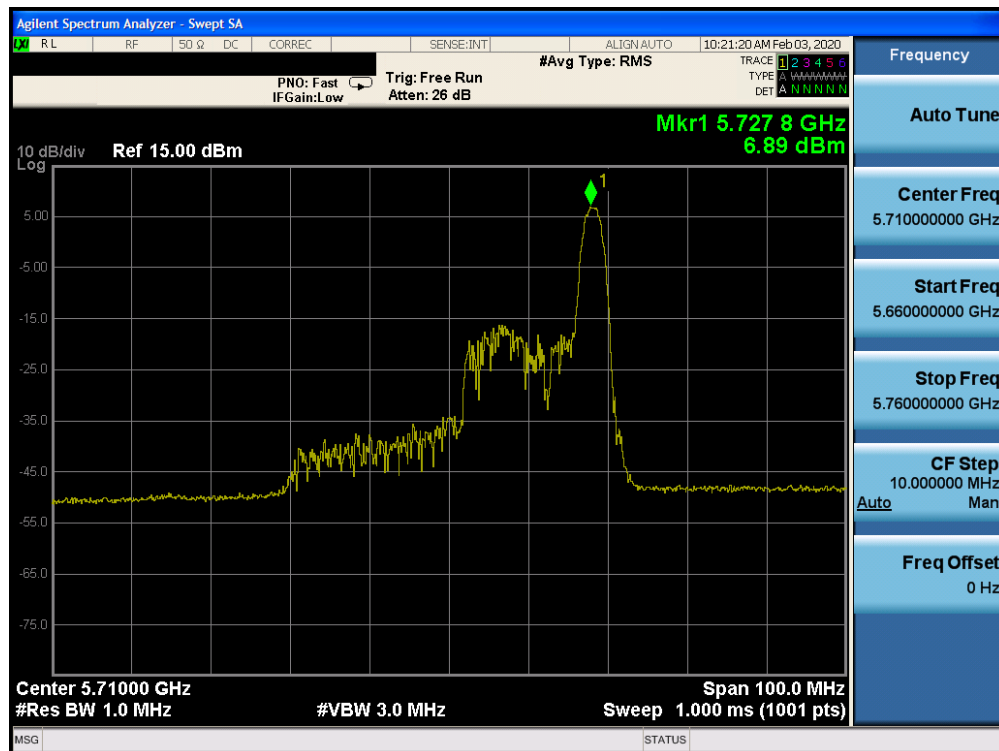


Plot 7-600. Power Spectral Density Plot SDM CORE 1 (40MHz BW 802.11ax Index 8 – RU26 (UNII Band 2C) – Ch. 142)

FCC ID: BCGA2229	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 353 of 563

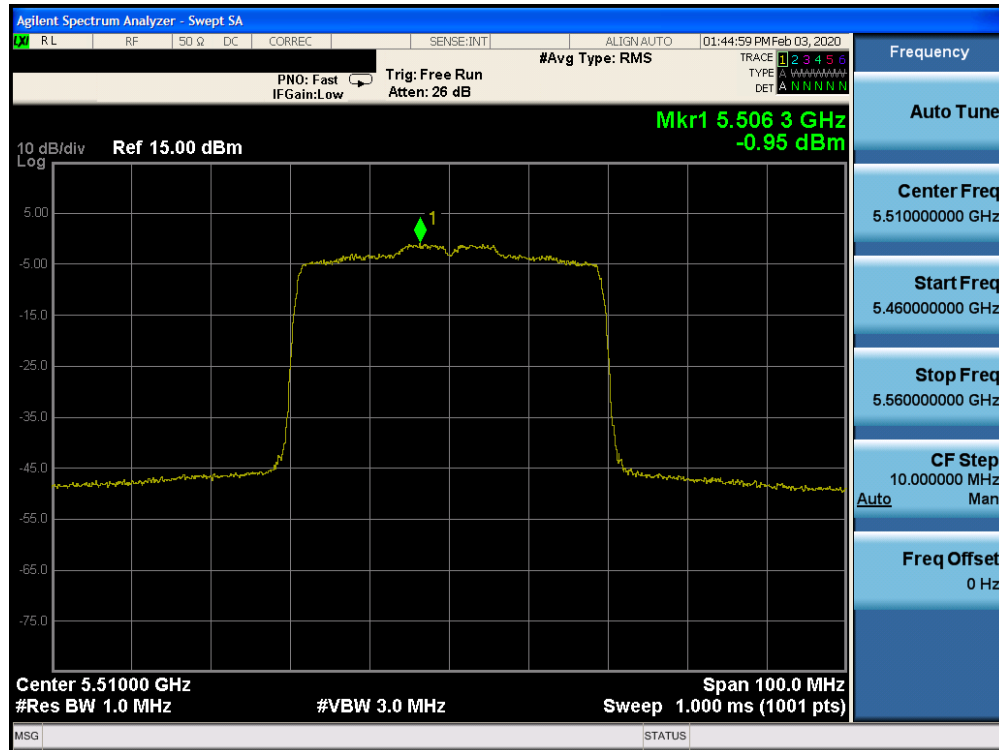


Plot 7-601. Power Spectral Density Plot SDM CORE 0 (40MHz BW 802.11ax Index 17 – RU26 (UNII Band 2C) – Ch. 142)

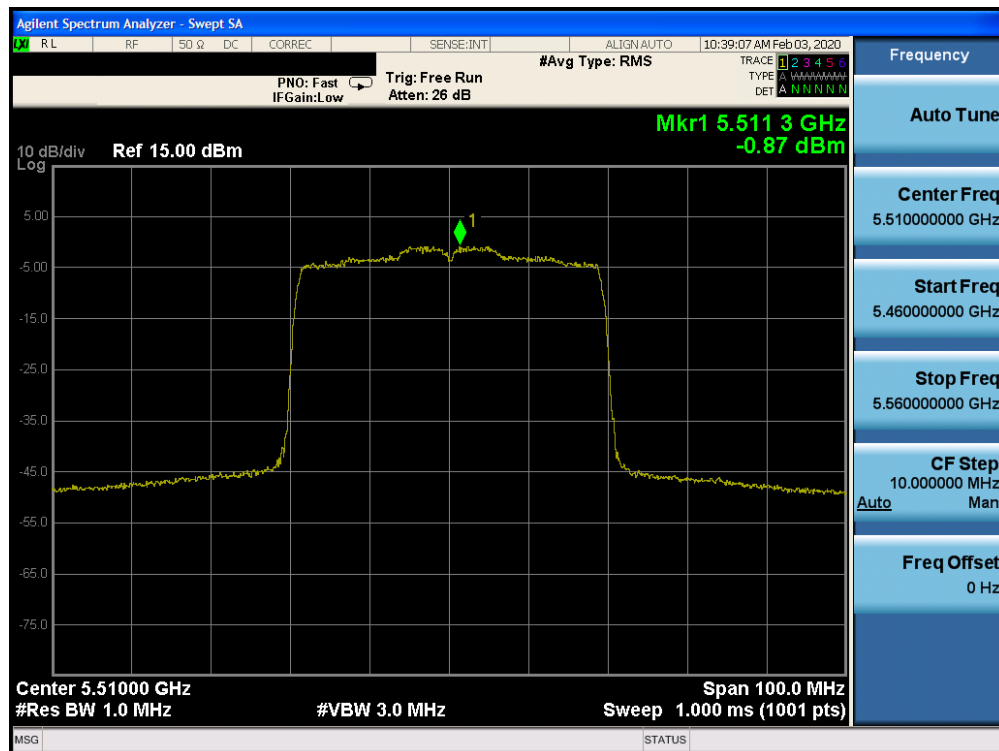


Plot 7-602. Power Spectral Density Plot SDM CORE 1 (40MHz BW 802.11ax Index 17 – RU26 (UNII Band 2C) – Ch. 142)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 354 of 563

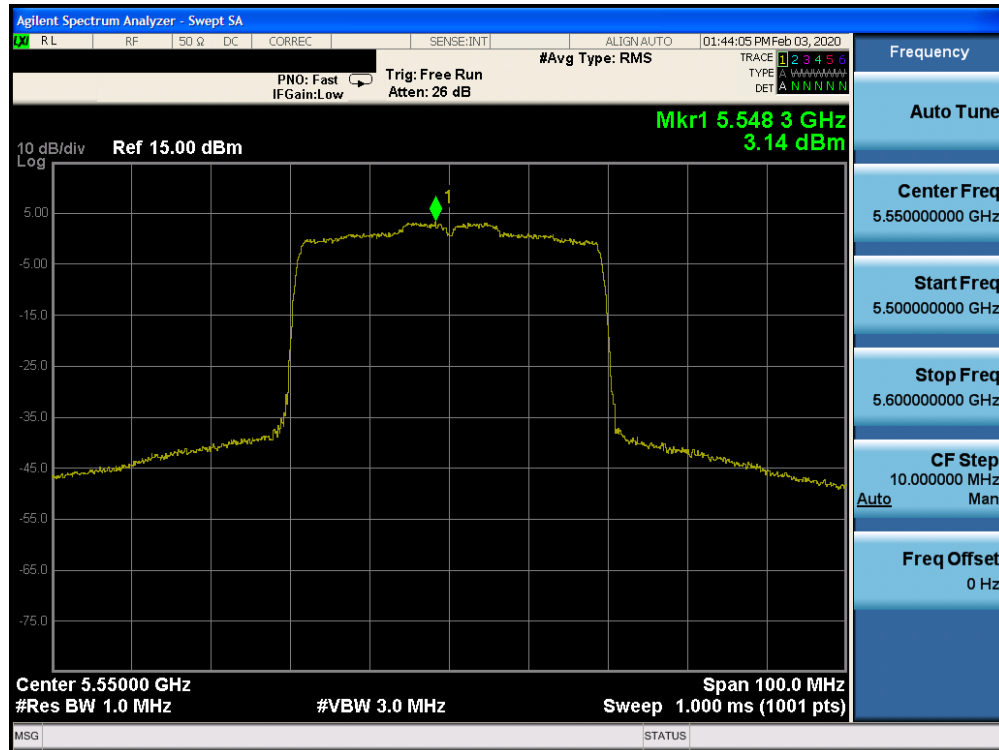


Plot 7-603. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11ax – RU484 (UNII Band 2C) – Ch. 102)

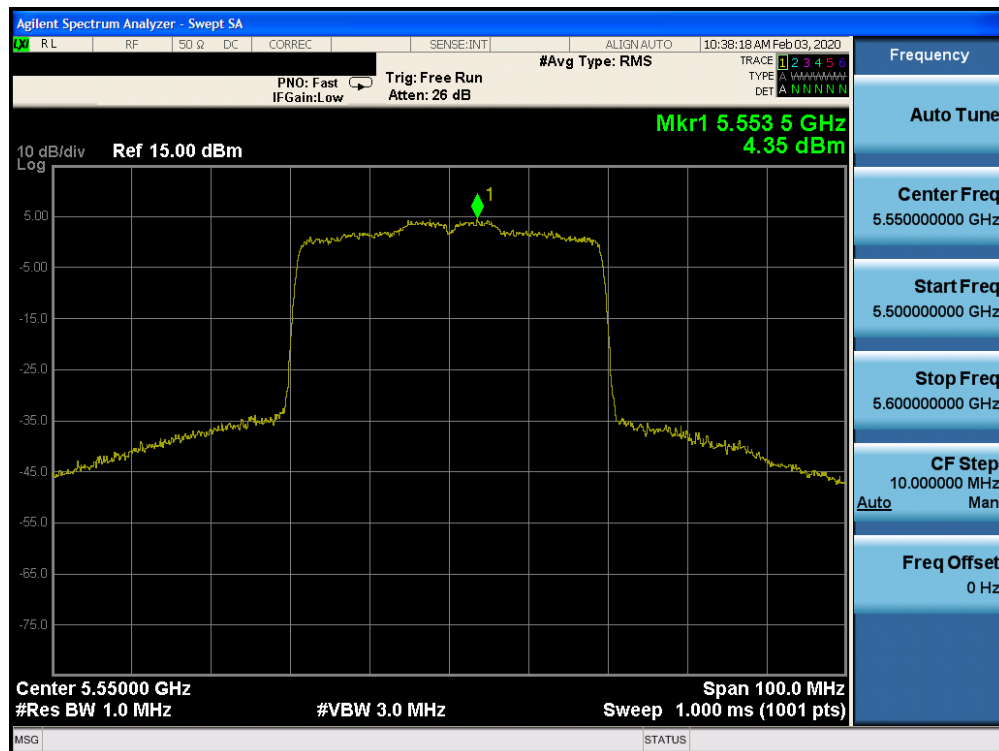


Plot 7-604. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11ax – RU484 (UNII Band 2C) – Ch. 102)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 355 of 563

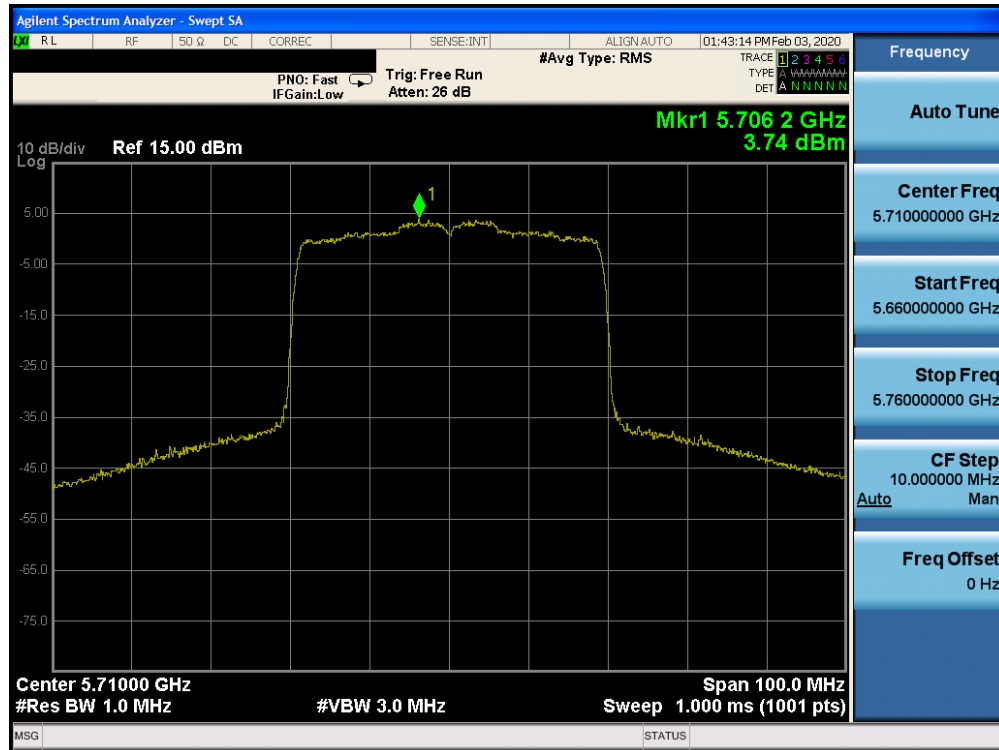


Plot 7-605. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11ax – RU484 (UNII Band 2C) – Ch. 110)

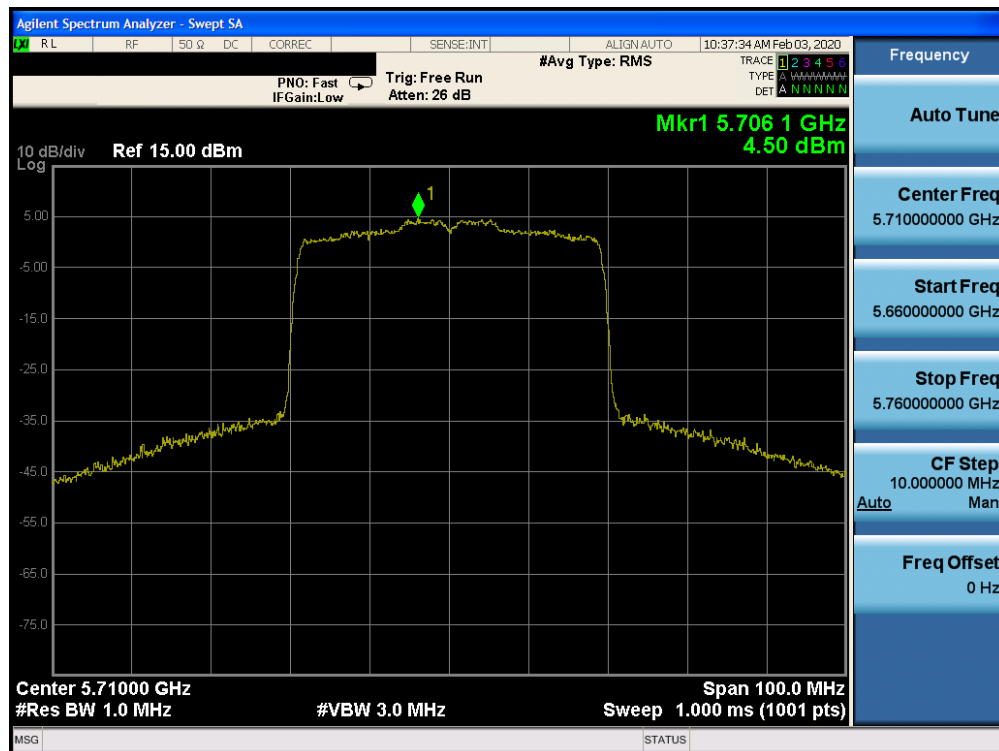


Plot 7-606. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11ax – RU484 (UNII Band 2C) – Ch. 110)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 356 of 563

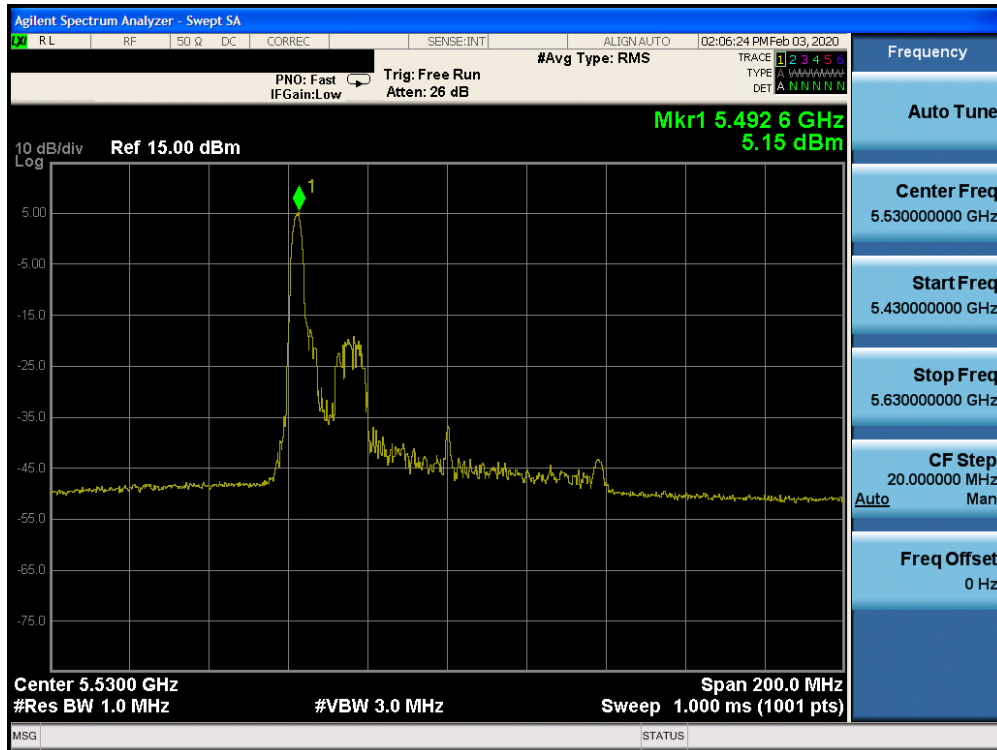


Plot 7-607. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11ax – RU484 (UNII Band 2C) – Ch. 142)

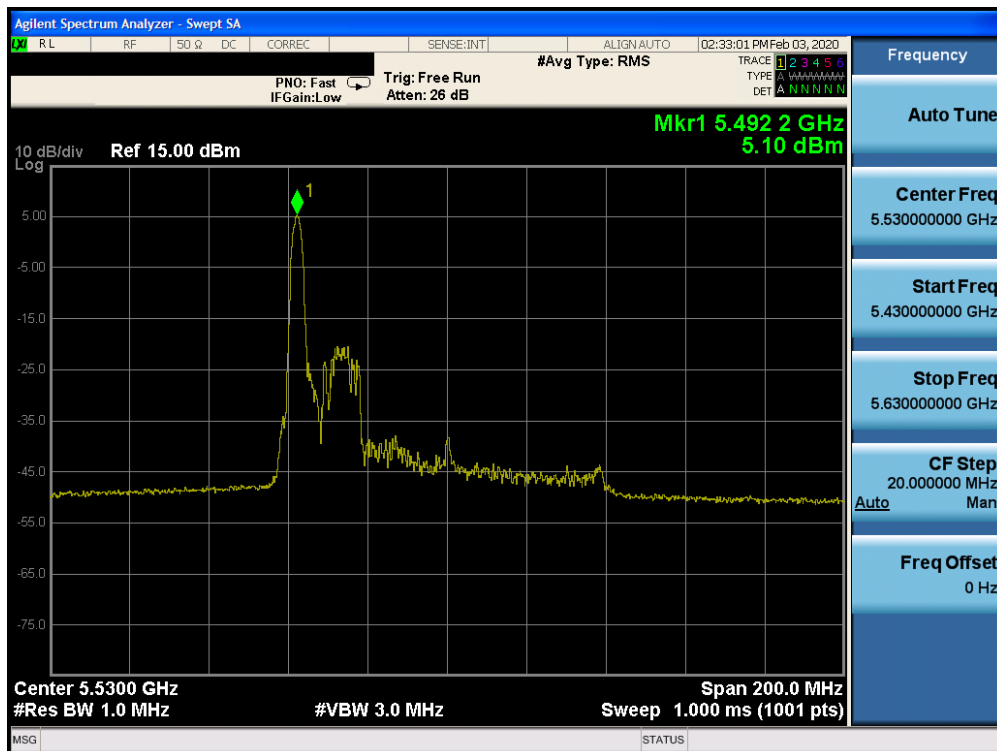


Plot 7-608. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11ax – RU484 (UNII Band 2C) – Ch. 142)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 357 of 563

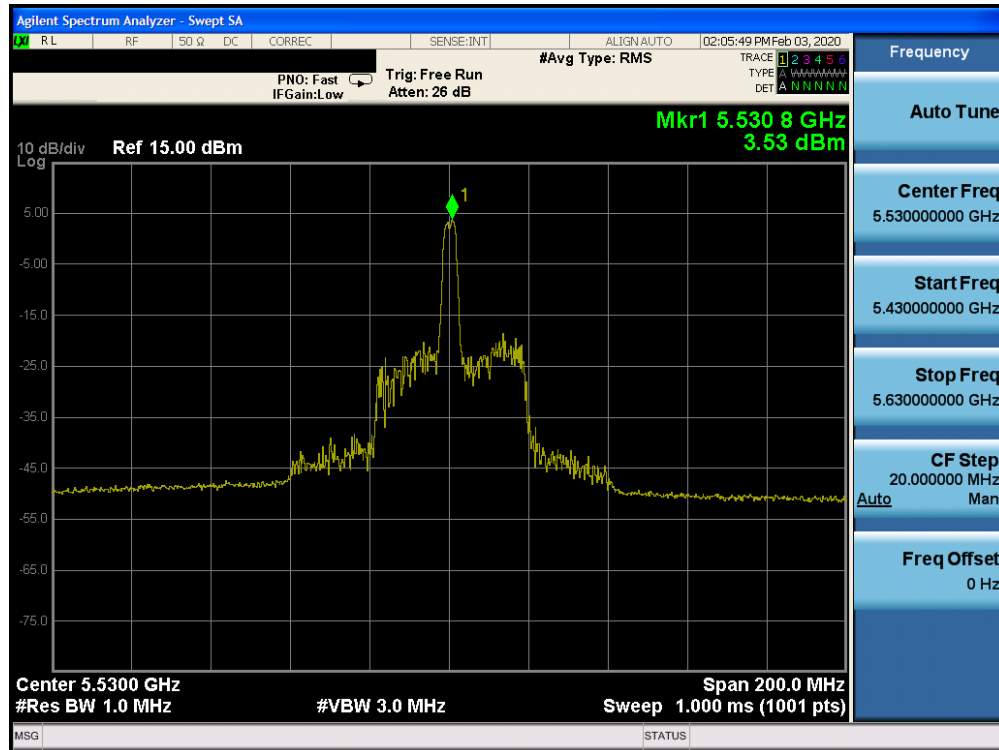


Plot 7-609. Power Spectral Density Plot SDM CORE 0 (80MHz BW 802.11ax Index 0 – RU26 (UNII Band 2C) – Ch. 106)



Plot 7-610. Power Spectral Density Plot SDM CORE 1 (80MHz BW 802.11ax Index 0 – RU26 (UNII Band 2C) – Ch. 106)

FCC ID: BCGA2229	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 358 of 563

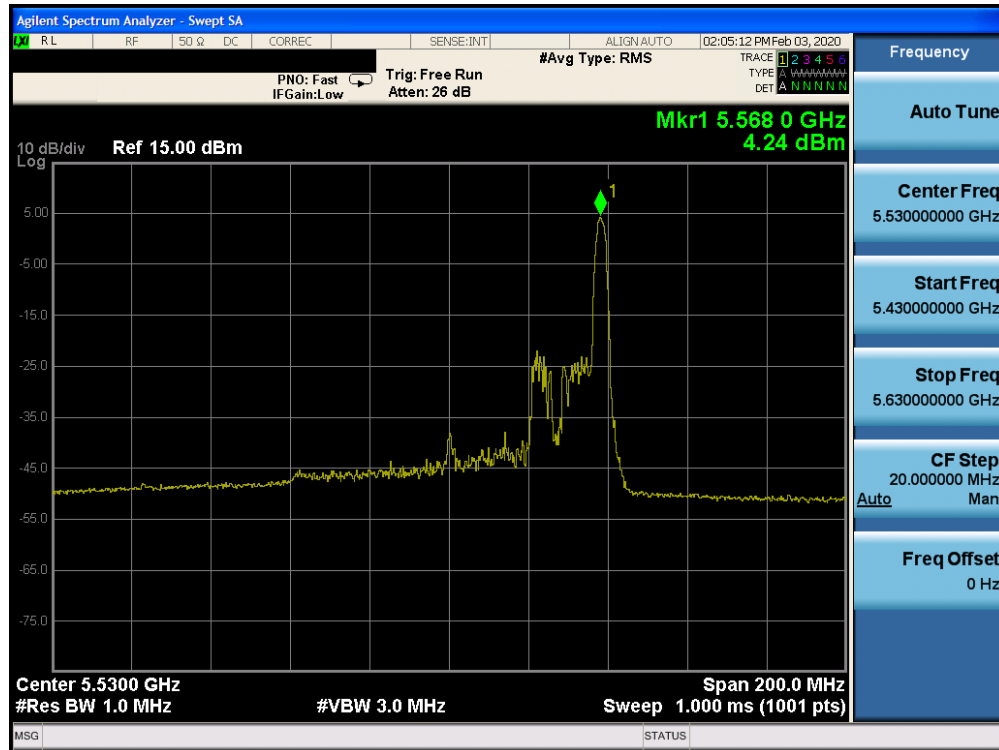


Plot 7-611. Power Spectral Density Plot SDM CORE 0 (80MHz BW 802.11ax Index 18 – RU26 (UNII Band 2C) – Ch. 106)

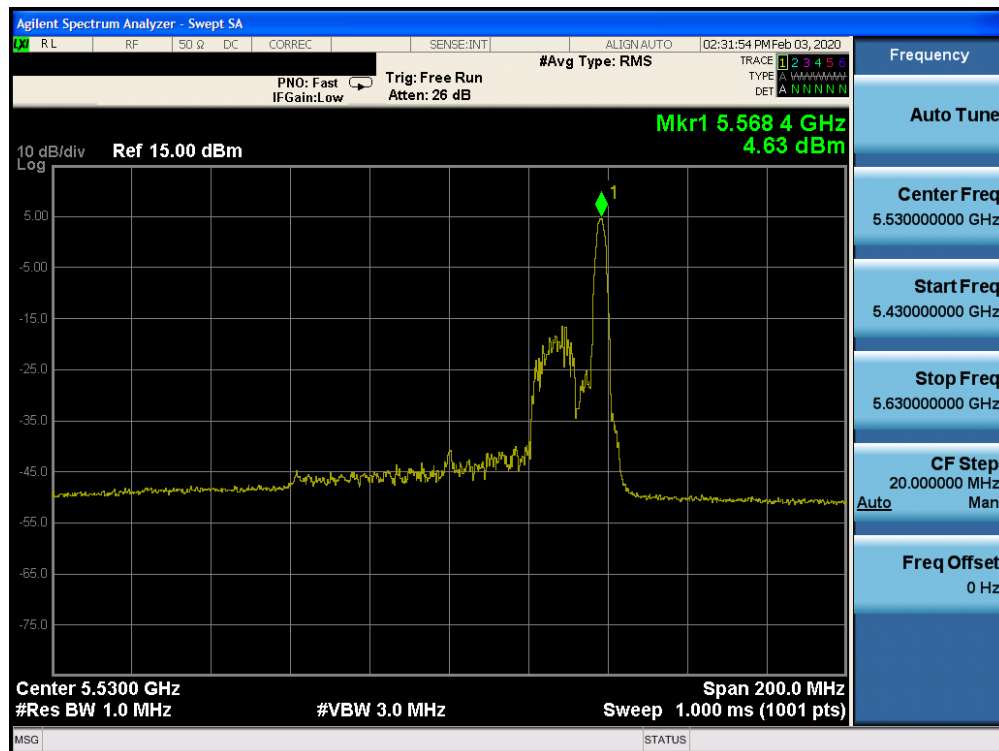


Plot 7-612. Power Spectral Density Plot SDM CORE 1 (80MHz BW 802.11ax Index 18 – RU26 (UNII Band 2C) – Ch. 106)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 359 of 563

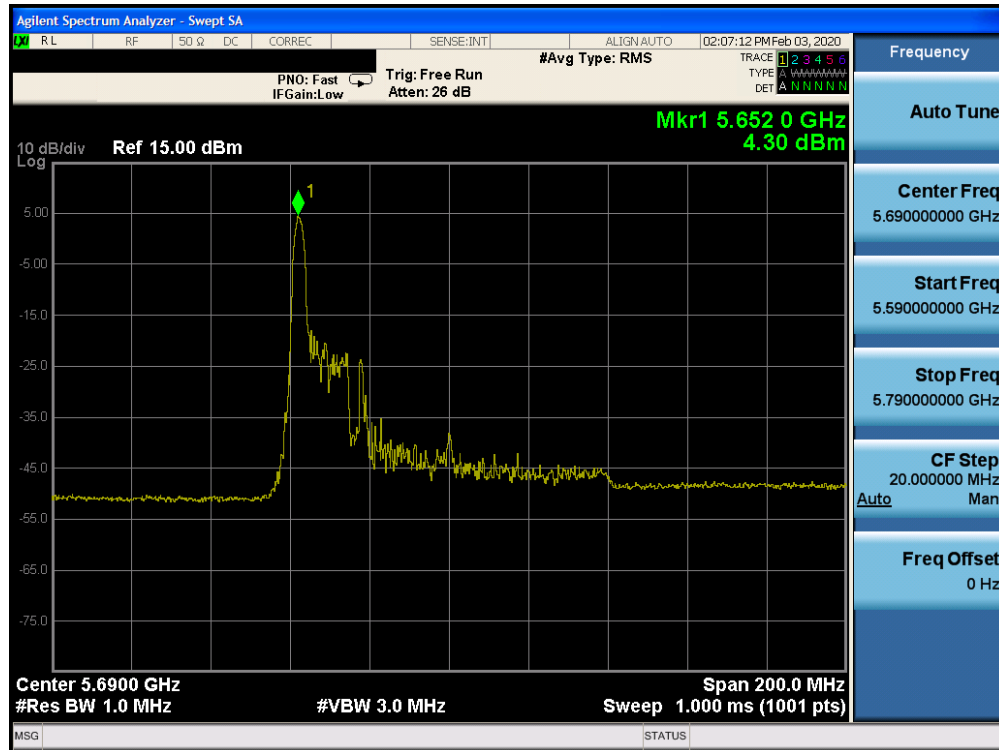


Plot 7-613. Power Spectral Density Plot SDM CORE 0 (80MHz BW 802.11ax Index 36 – RU26 (UNII Band 2C) – Ch. 106)

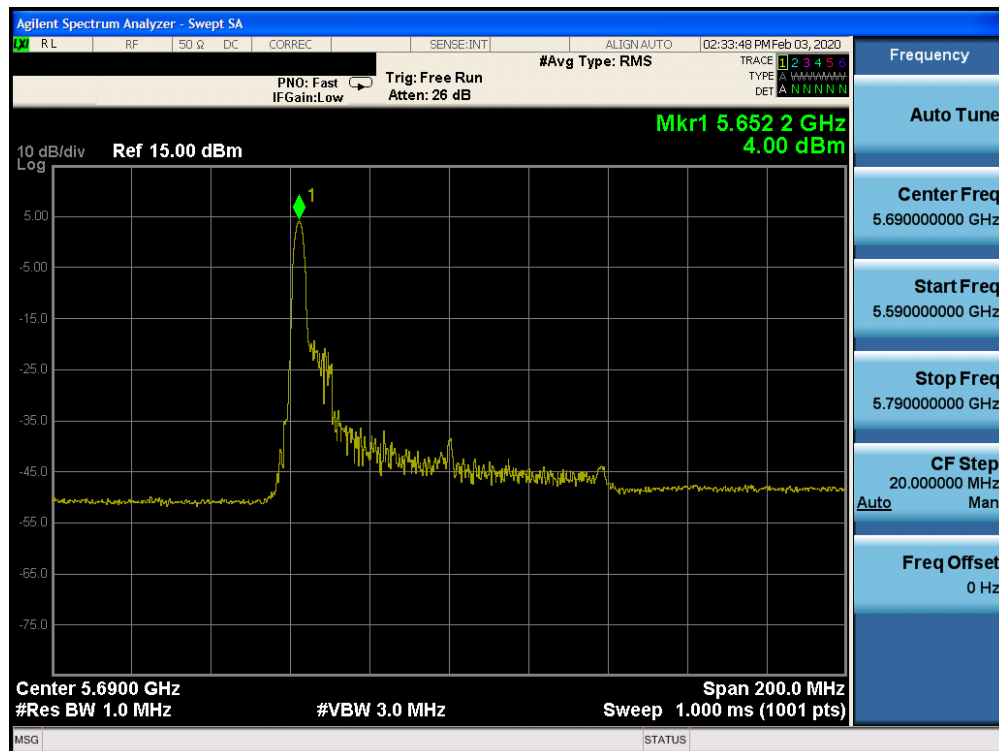


Plot 7-614. Power Spectral Density Plot SDM CORE 1 (80MHz BW 802.11ax Index 36 – RU26 (UNII Band 2C) – Ch. 106)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 360 of 563

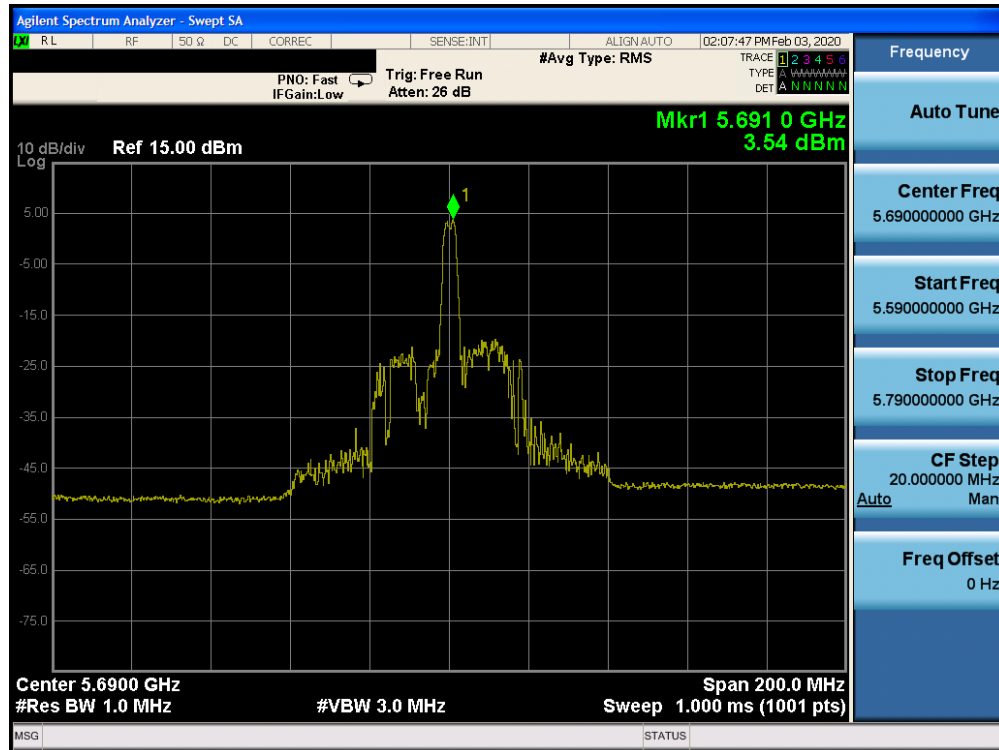


Plot 7-615. Power Spectral Density Plot SDM CORE 0 (80MHz BW 802.11ax Index 0 – RU26 (UNII Band 2C) – Ch. 138)

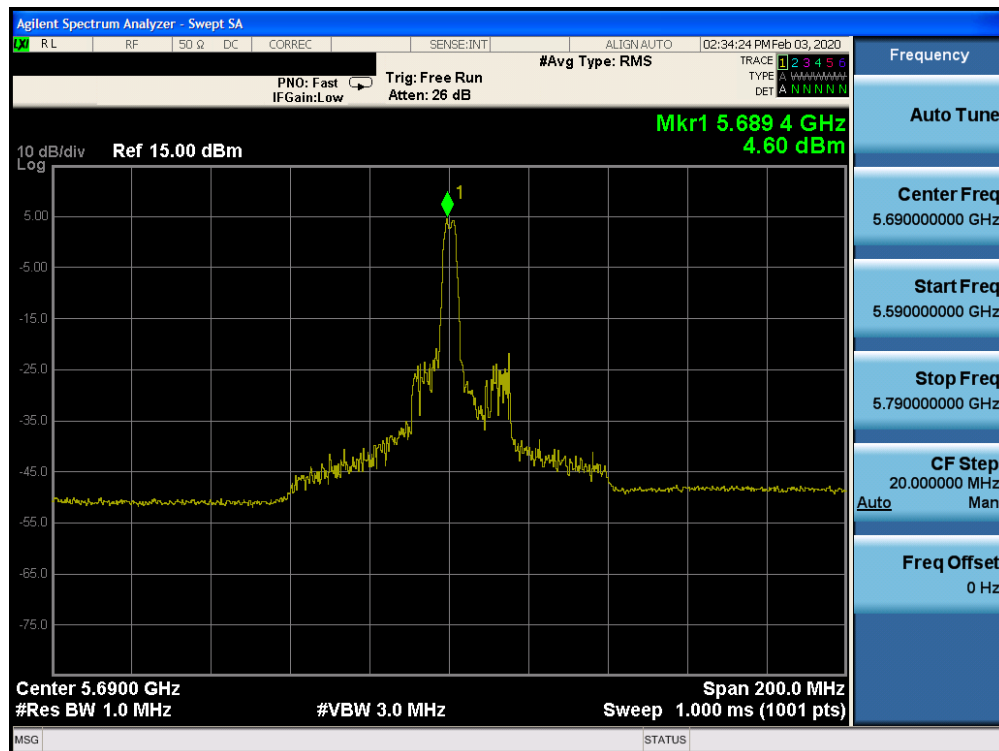


Plot 7-616. Power Spectral Density Plot SDM CORE 1 (80MHz BW 802.11ax Index 0 – RU26 (UNII Band 2C) – Ch. 138)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 361 of 563

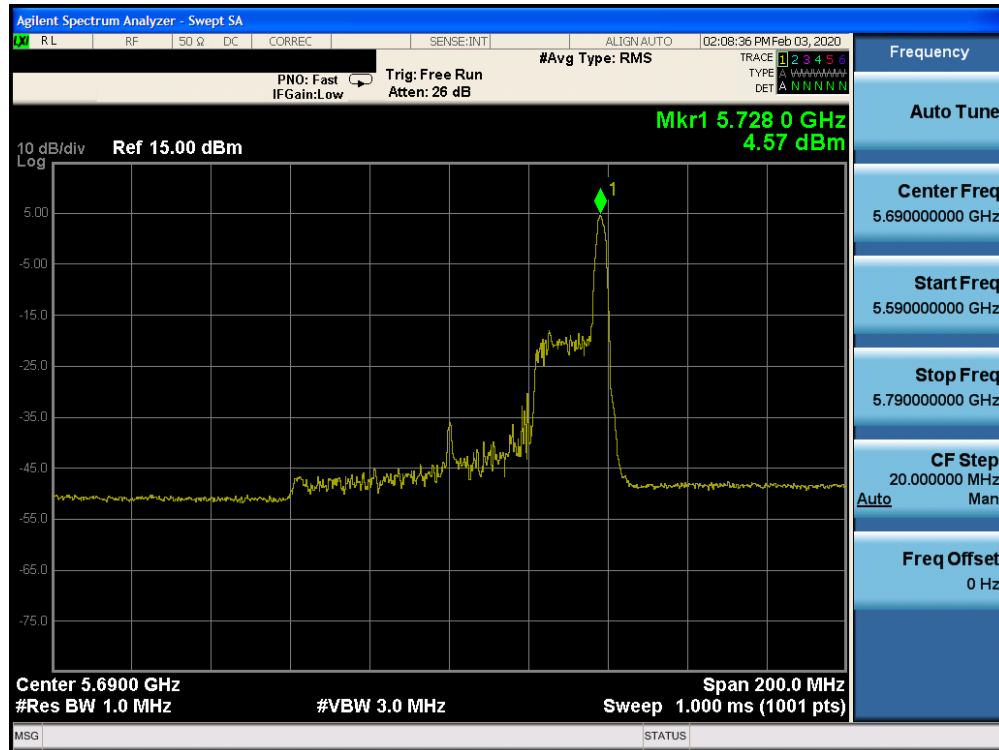


Plot 7-617. Power Spectral Density Plot SDM CORE 0 (80MHz BW 802.11ax Index 18 – RU26 (UNII Band 2C) – Ch. 138)

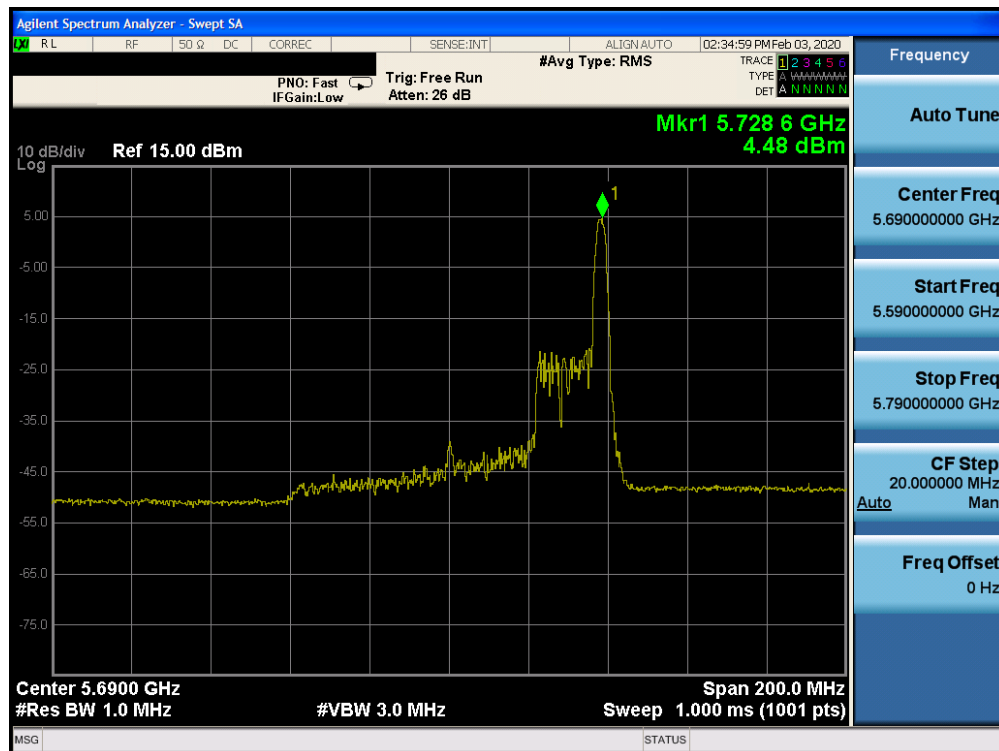


Plot 7-618. Power Spectral Density Plot SDM CORE 1 (80MHz BW 802.11ax Index 18 – RU26 (UNII Band 2C) – Ch. 138)

FCC ID: BCGA2229	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 362 of 563

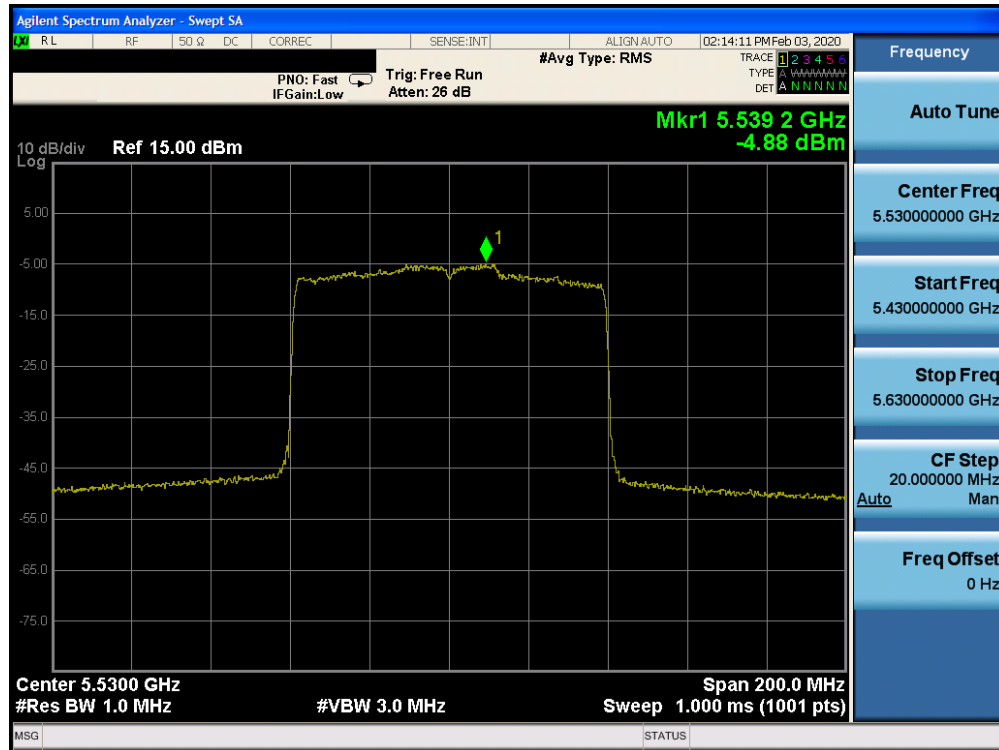


Plot 7-619. Power Spectral Density Plot SDM CORE 0 (80MHz BW 802.11ax Index 36 – RU26 (UNII Band 2C) – Ch. 138)

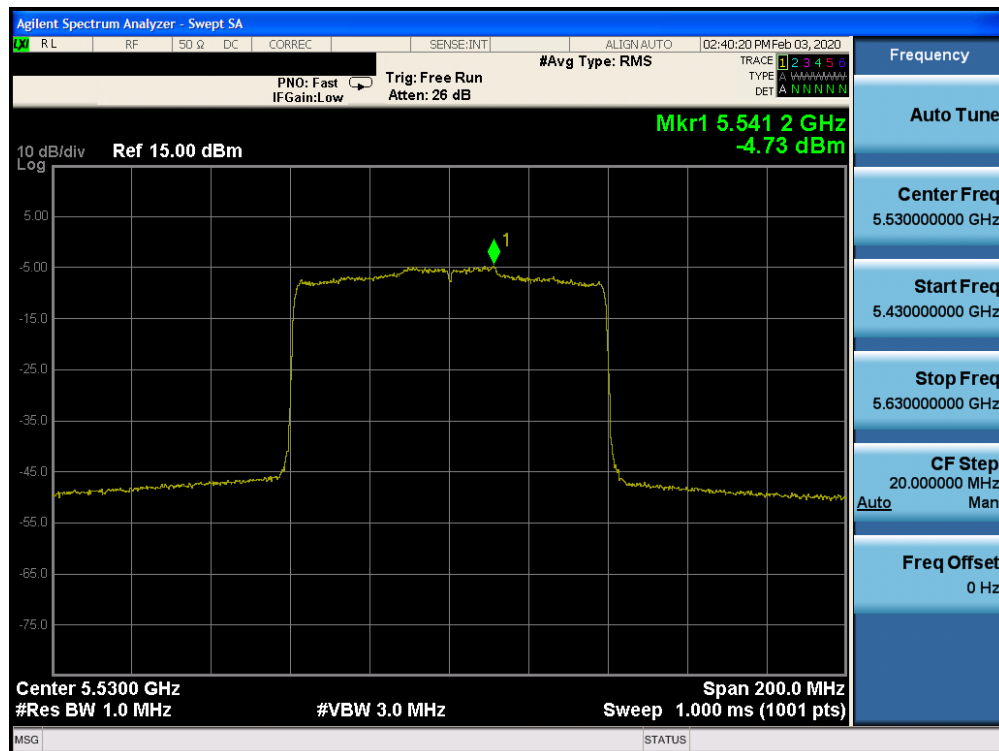


Plot 7-620. Power Spectral Density Plot SDM CORE 1 (80MHz BW 802.11ax Index 36 – RU26 (UNII Band 2C) – Ch. 138)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 363 of 563

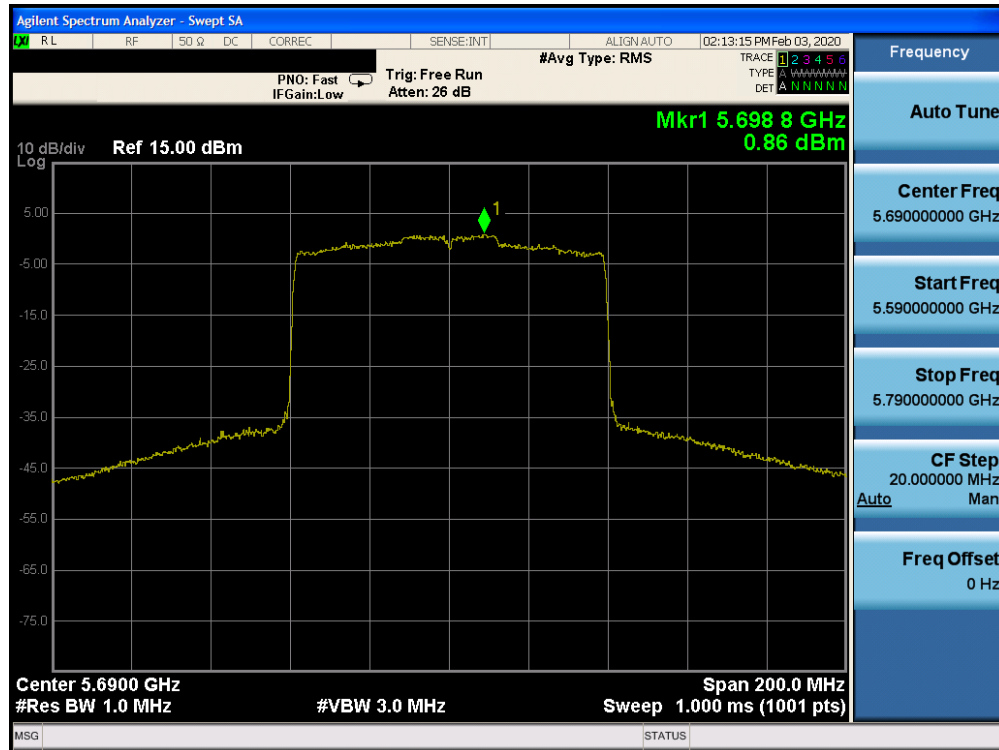


Plot 7-621. Power Spectral Density Plot CDD CORE 0 (80MHz BW 802.11ax – RU996 (UNII Band 2C) – Ch. 106)

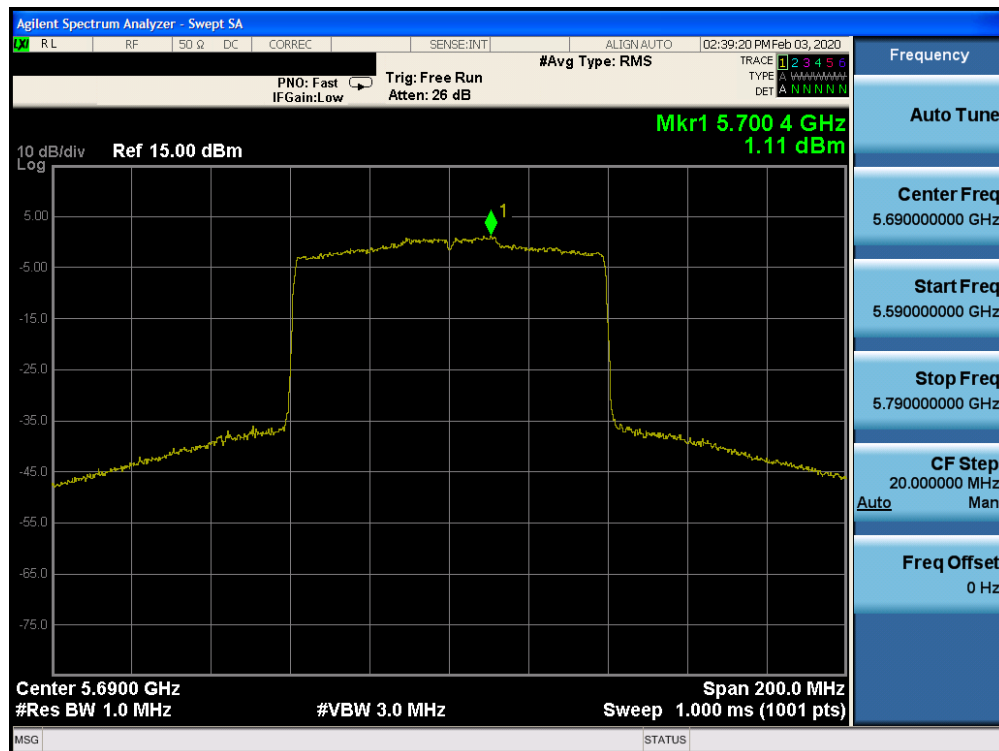


Plot 7-622. Power Spectral Density Plot CDD CORE 1 (80MHz BW 802.11ax – RU996 (UNII Band 2C) – Ch. 106)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 364 of 563



Plot 7-623. Power Spectral Density Plot CDD CORE 0 (80MHz BW 802.11ax – RU996 (UNII Band 2C) – Ch. 138)



Plot 7-624. Power Spectral Density Plot CDD CORE 1 (80MHz BW 802.11ax – RU996 (UNII Band 2C) – Ch. 138)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 365 of 563

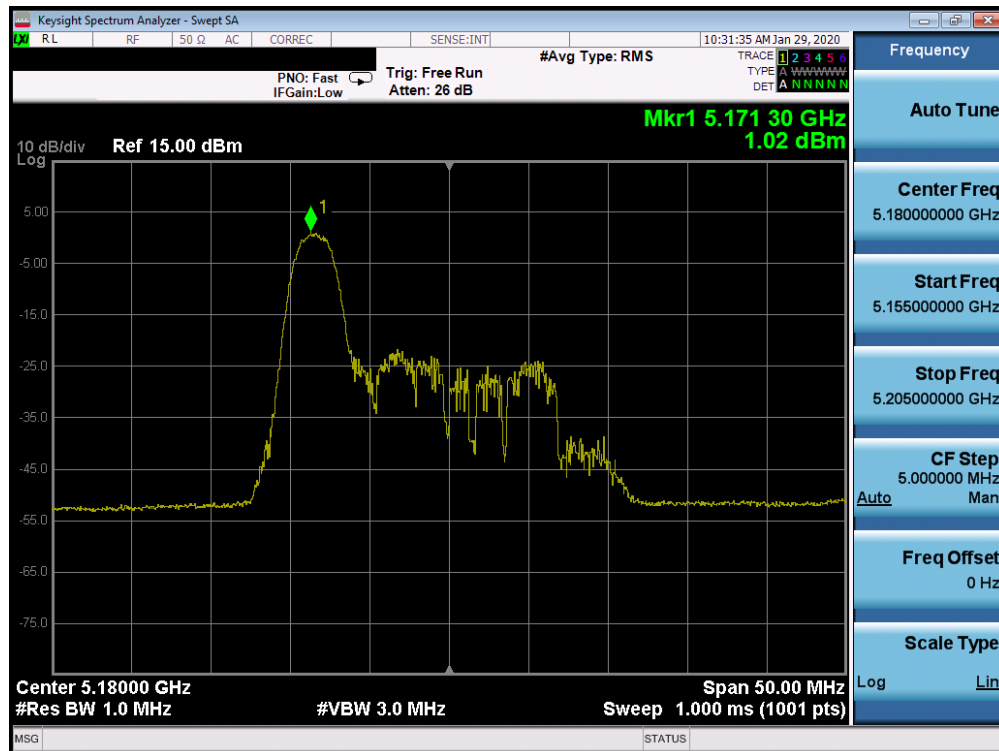
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Core 0 Power Density [dBm]	Core 1 Power Density [dBm]	Summed Power Density [dBm]	Directional Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	26	MCS0	1.02	-0.68	3.26	4.88	8.14	10.0	-1.86
				26	MCS0	0.52	-1.16	2.77	4.88	7.65	10.0	-2.35
				26	MCS0	1.47	-0.69	3.53	4.88	8.41	10.0	-1.59
	5200	40	ax (20MHz)	26	MCS0	1.19	1.24	4.23	4.88	9.10	10.0	-0.90
				26	MCS0	0.66	0.58	3.63	4.88	8.51	10.0	-1.49
				26	MCS0	1.72	1.38	4.56	4.88	9.44	10.0	-0.56
	5240	48	ax (20MHz)	26	MCS0	0.99	1.22	4.12	4.88	8.99	10.0	-1.01
				26	MCS0	0.69	0.36	3.54	4.88	8.41	10.0	-1.59
				26	MCS0	1.29	1.04	4.18	4.88	9.05	10.0	-0.95
	5190	38	ax (40MHz)	26	MCS0	1.09	1.09	4.10	4.88	8.98	10.0	-1.02
				26	MCS0	2.00	1.92	4.97	4.88	9.85	10.0	-0.15
				26	MCS0	1.41	2.03	4.74	4.88	9.62	10.0	-0.38
	5230	46	ax (40MHz)	26	MCS0	1.26	2.03	4.67	4.88	9.55	10.0	-0.45
				26	MCS0	1.12	1.60	4.38	4.88	9.25	10.0	-0.75
				26	MCS0	1.99	2.18	5.10	4.88	9.97	10.0	-0.03
	5210	42	ax (80MHz)	26	MCS0	1.33	1.18	4.27	4.88	9.14	10.0	-0.86
				26	MCS0	0.94	1.12	4.04	4.88	8.92	10.0	-1.08
				26	MCS0	1.54	1.23	4.40	4.88	9.27	10.0	-0.73

Table 7-78. Band 1 e.i.r.p. Conducted Power Spectral Density Measurements (ISED) CDD (RU26)

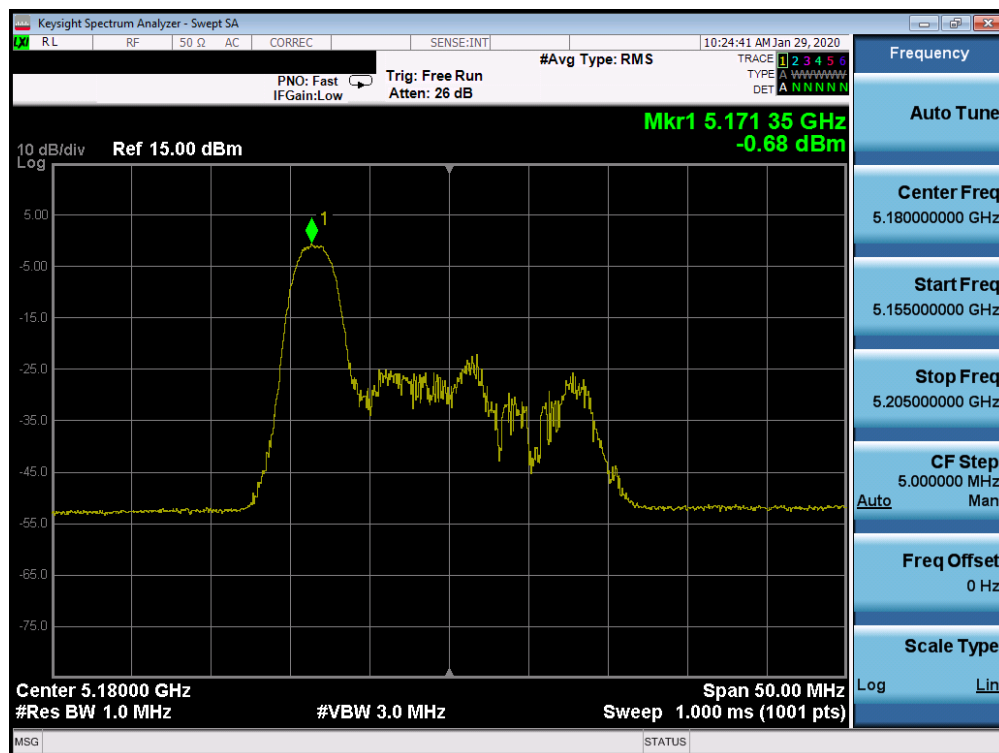
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Core 0 Power Density [dBm]	Core 1 Power Density [dBm]	Summed Power Density [dBm]	Directional Antenna Gain [dBi]	e.i.r.p. Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	242	MCS0	0.73	0.87	3.81	4.88	8.69	10.0	-1.31
	5200	40	ax (20MHz)	242	MCS0	0.83	0.77	3.81	4.88	8.69	10.0	-1.31
	5240	48	ax (20MHz)	242	MCS0	0.74	0.62	3.69	4.88	8.57	10.0	-1.43
	5190	38	ax (40MHz)	484	MCS0	0.81	1.14	3.99	4.88	8.86	10.0	-1.14
	5230	46	ax (40MHz)	484	MCS0	1.37	1.18	4.29	4.88	9.16	10.0	-0.84
	5210	42	ax (80MHz)	996	MCS0	-3.83	-3.78	-0.79	4.88	4.08	10.0	-5.92

Table 7-79. Band 1 e.i.r.p. Conducted Power Spectral Density Measurements (ISED) CDD (Fully-loaded RU)

FCC ID: BCGA2229	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 366 of 563

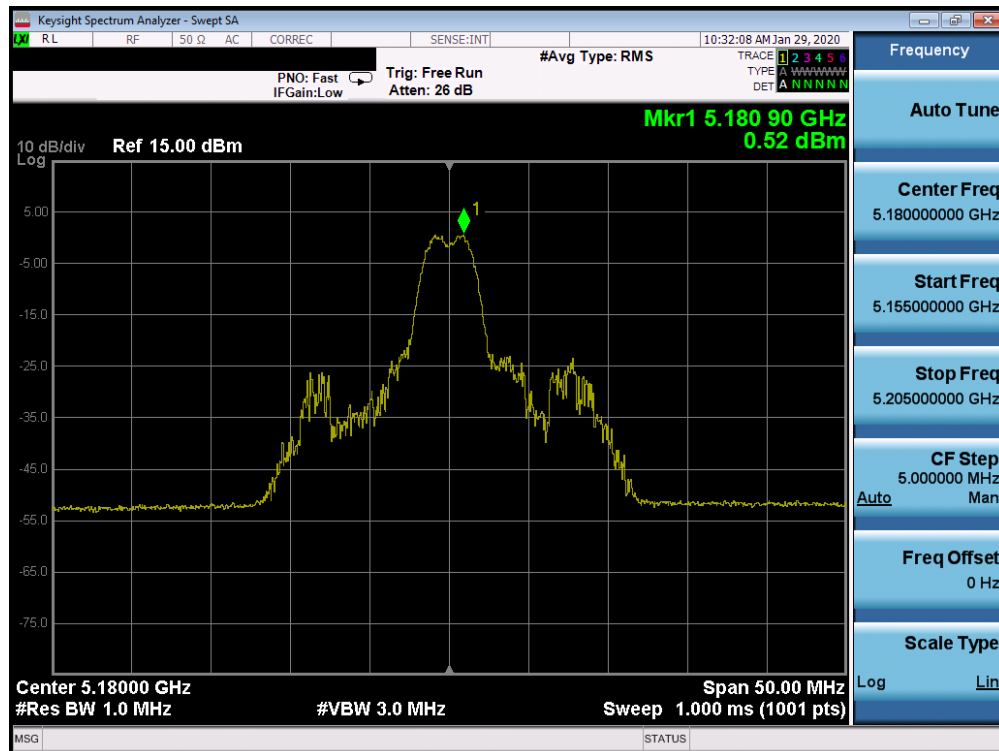


Plot 7-625. Power Spectral Density Plot ISCED CDD CORE 0 (20MHz BW 802.11ax Index 0 – RU26 (UNII Band 1) – Ch. 36)

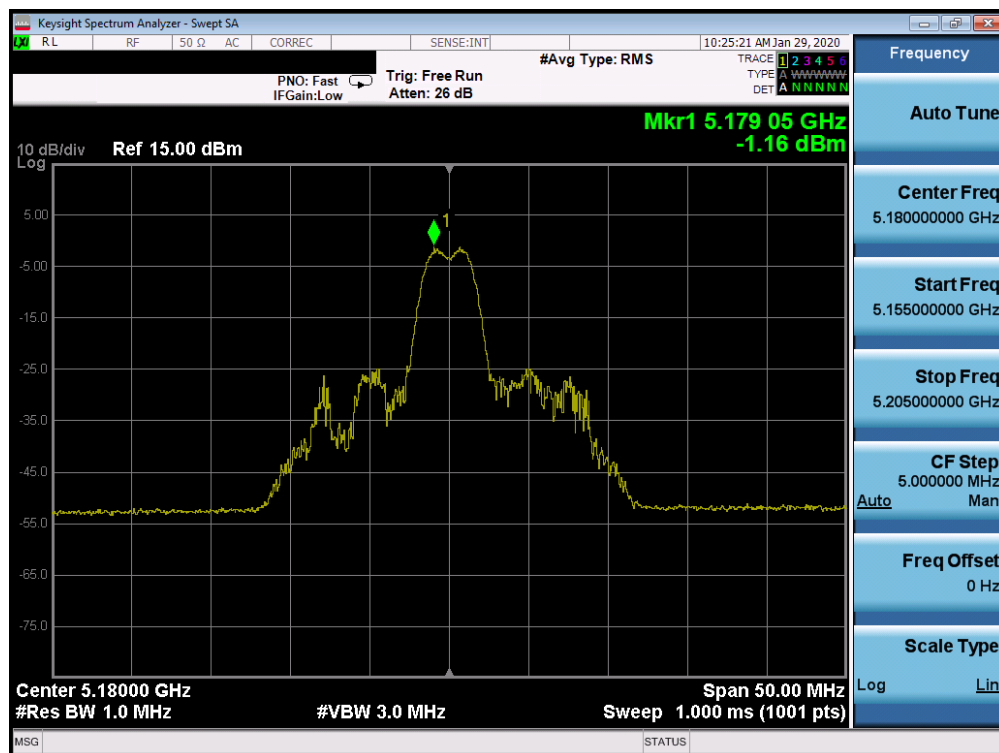


Plot 7-626. Power Spectral Density Plot ISCED CDD CORE 1 (20MHz BW 802.11ax Index 0 – RU26 (UNII Band 1) – Ch. 36)

FCC ID: BCGA2229	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 367 of 563

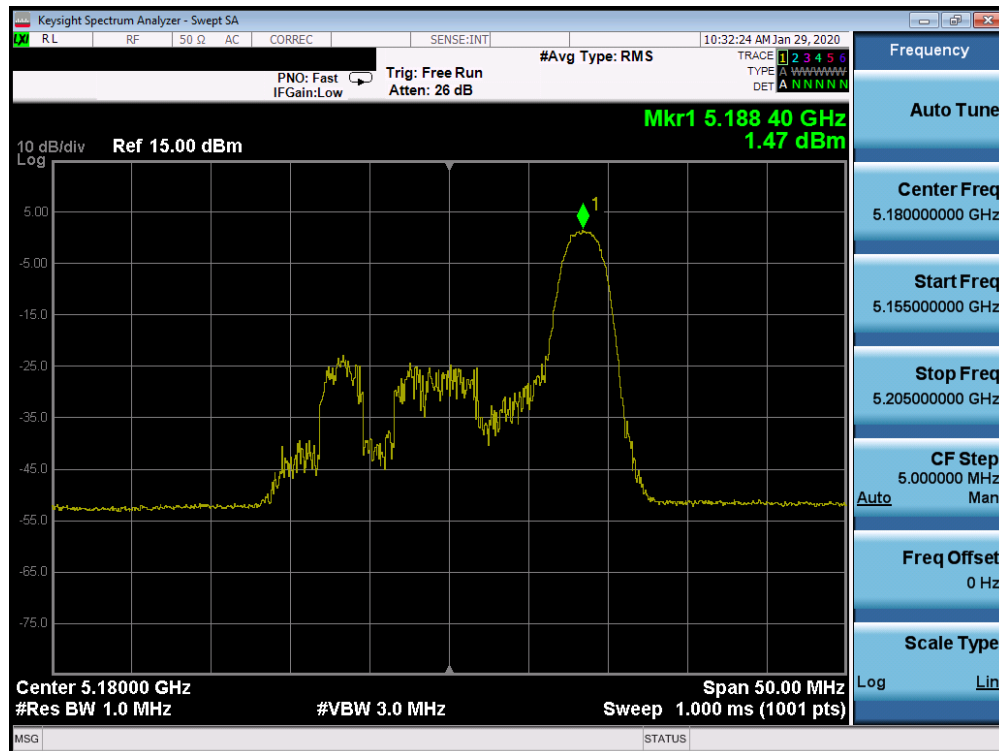


Plot 7-627. Power Spectral Density Plot ISCED CDD CORE 0 (20MHz BW 802.11ax Index 4 – RU26 (UNII Band 1) – Ch. 36)

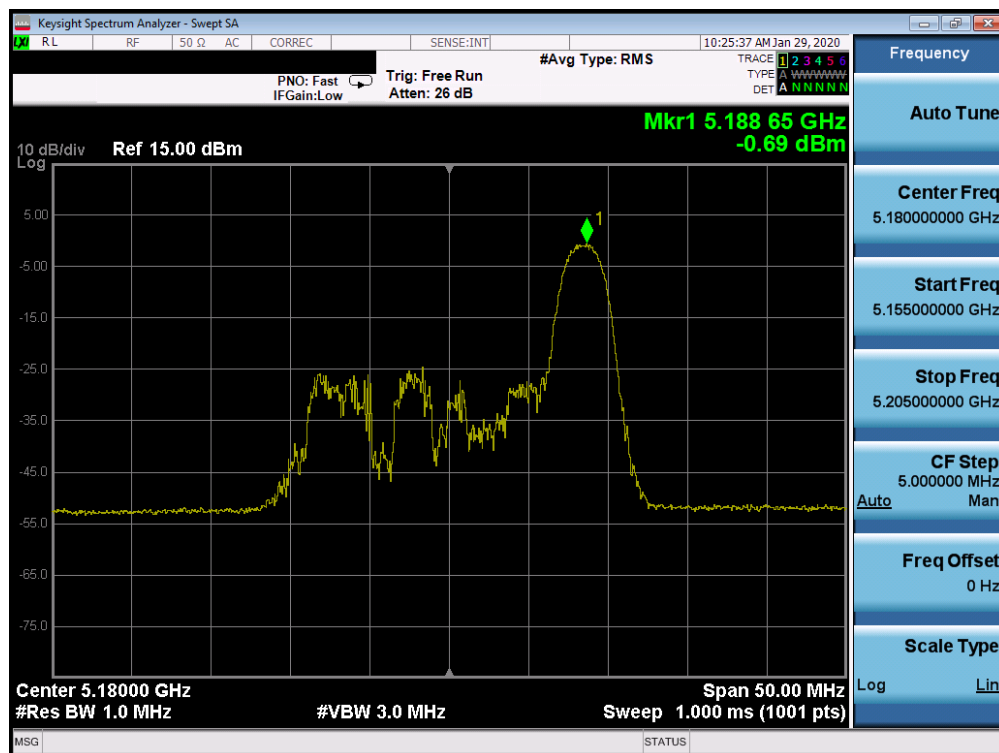


Plot 7-628. Power Spectral Density Plot ISCED CDD CORE 1 (20MHz BW 802.11ax Index 4 – RU26 (UNII Band 1) – Ch. 36)

FCC ID: BCGA2229	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 368 of 563

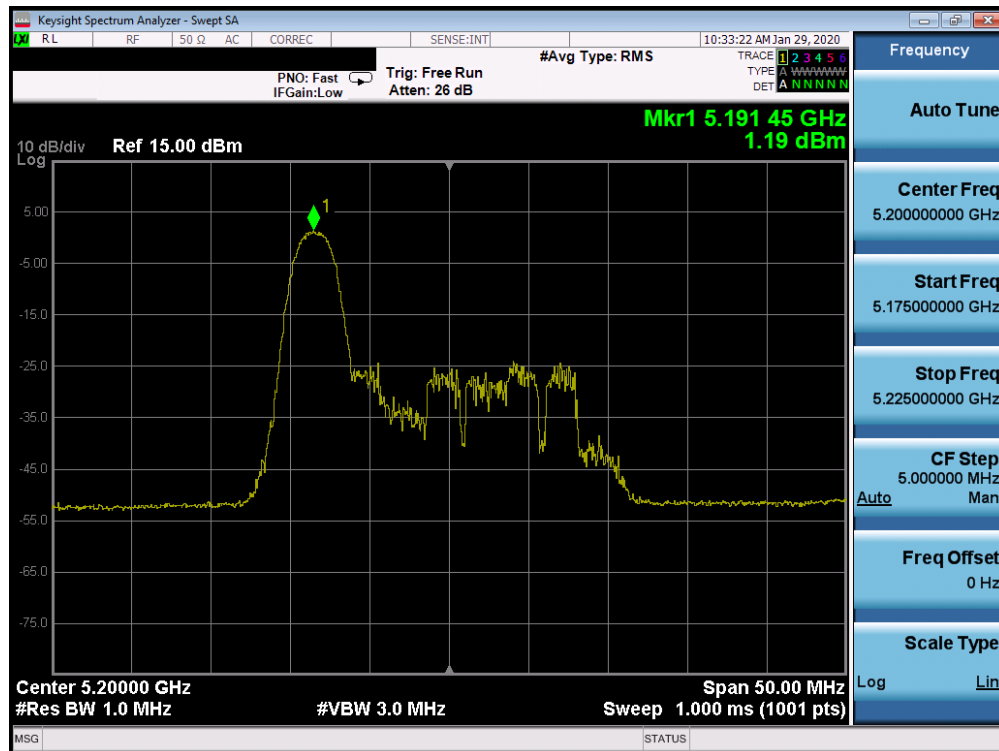


Plot 7-629. Power Spectral Density Plot ISCED CDD CORE 0 (20MHz BW 802.11ax Index 8 – RU26 (UNII Band 1) – Ch. 36)

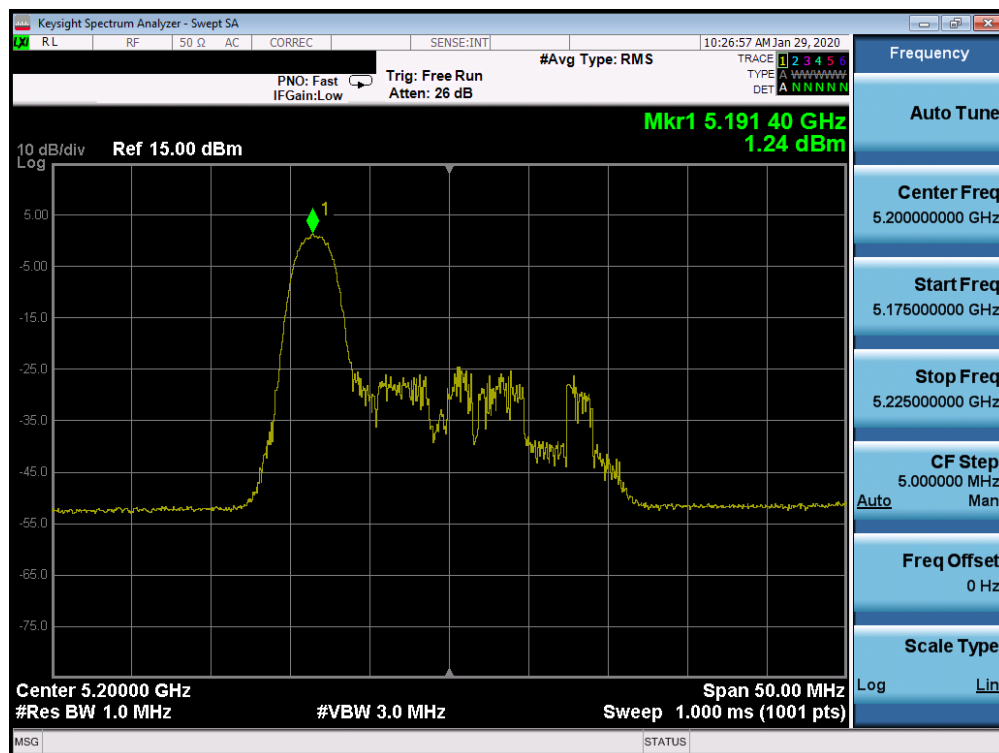


Plot 7-630. Power Spectral Density Plot ISCED CDD CORE 1 (20MHz BW 802.11ax Index 8 – RU26 (UNII Band 1) – Ch. 36)

FCC ID: BCGA2229	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 369 of 563

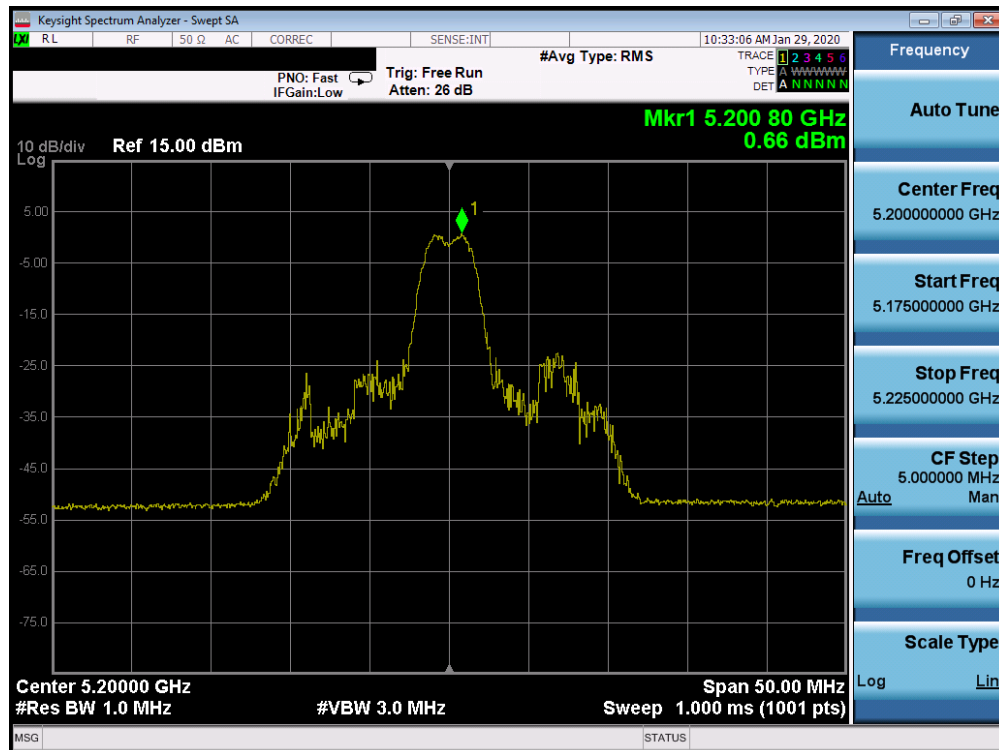


Plot 7-631. Power Spectral Density Plot ISCED CDD CORE 0 (20MHz BW 802.11ax Index 0 – RU26 (UNII Band 1) – Ch. 40)

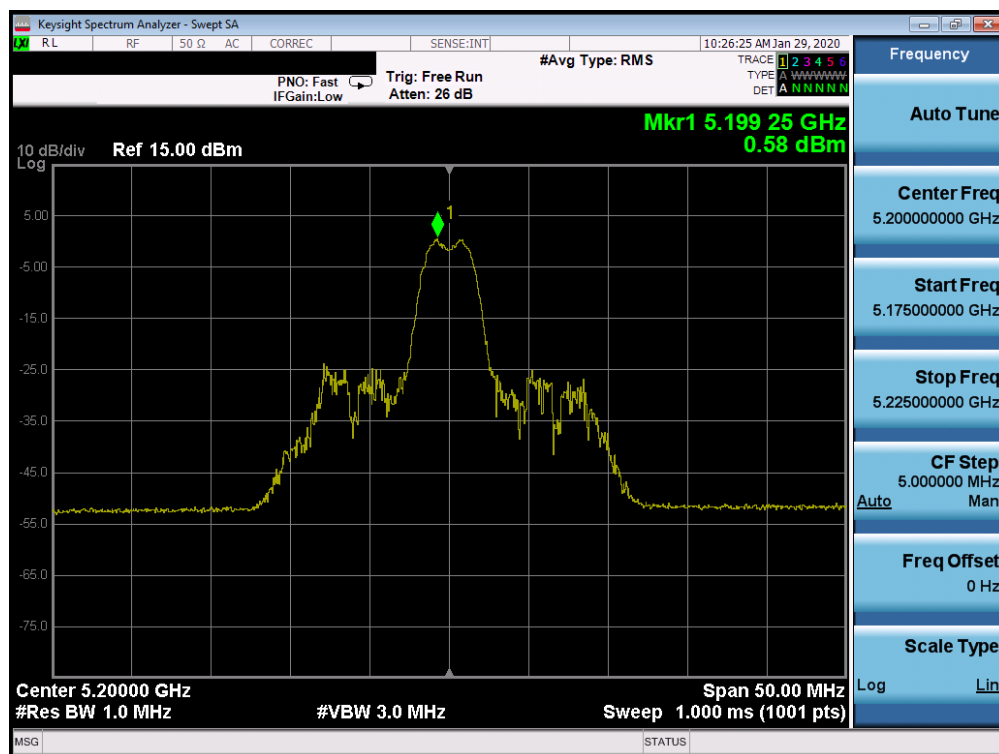


Plot 7-632. Power Spectral Density Plot ISCED CDD CORE 1 (20MHz BW 802.11ax Index 0 – RU26 (UNII Band 1) – Ch. 40)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 370 of 563

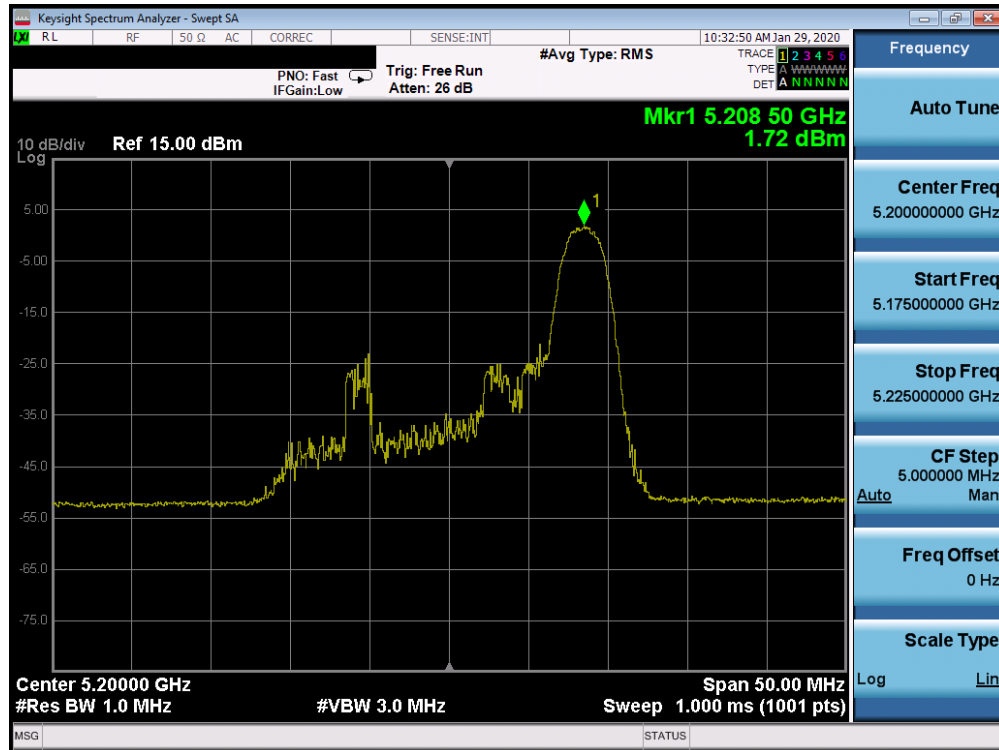


Plot 7-633. Power Spectral Density Plot ISED CDD CORE 0 (20MHz BW 802.11ax Index 4 – RU26 (UNII Band 1) – Ch. 40)

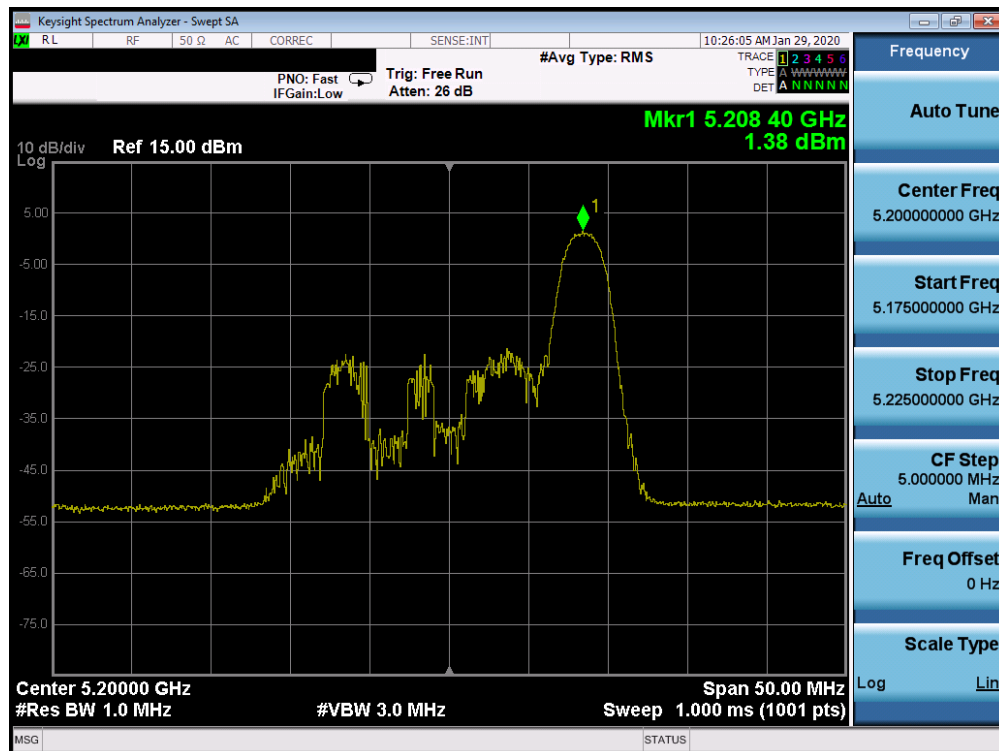


Plot 7-634. Power Spectral Density Plot ISED CDD CORE 1 (20MHz BW 802.11ax Index 4 – RU26 (UNII Band 1) – Ch. 40)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 371 of 563



Plot 7-635. Power Spectral Density Plot ISED CDD CORE 0 (20MHz BW 802.11ax Index 8– RU26 (UNII Band 1) – Ch. 40)

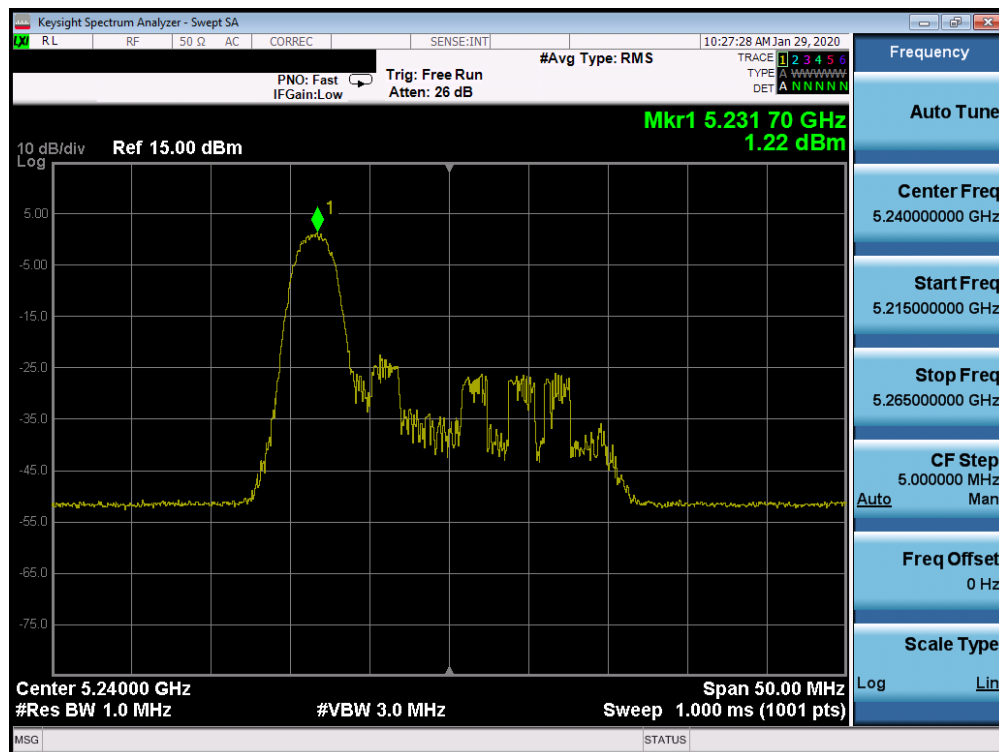


Plot 7-636. Power Spectral Density Plot ISED CDD CORE 1 (20MHz BW 802.11ax Index 8– RU26 (UNII Band 1) – Ch. 40)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 372 of 563

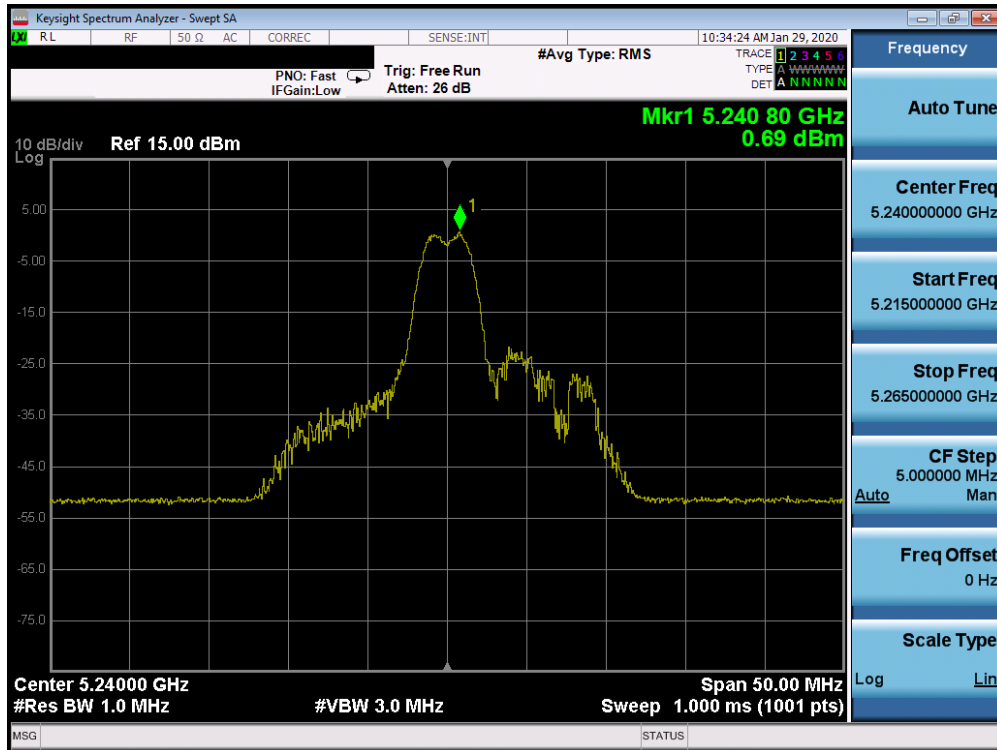


Plot 7-637. Power Spectral Density Plot ISED CDD CORE 0 (20MHz BW 802.11ax Index 0 – RU26 (UNII Band 1) – Ch. 48)

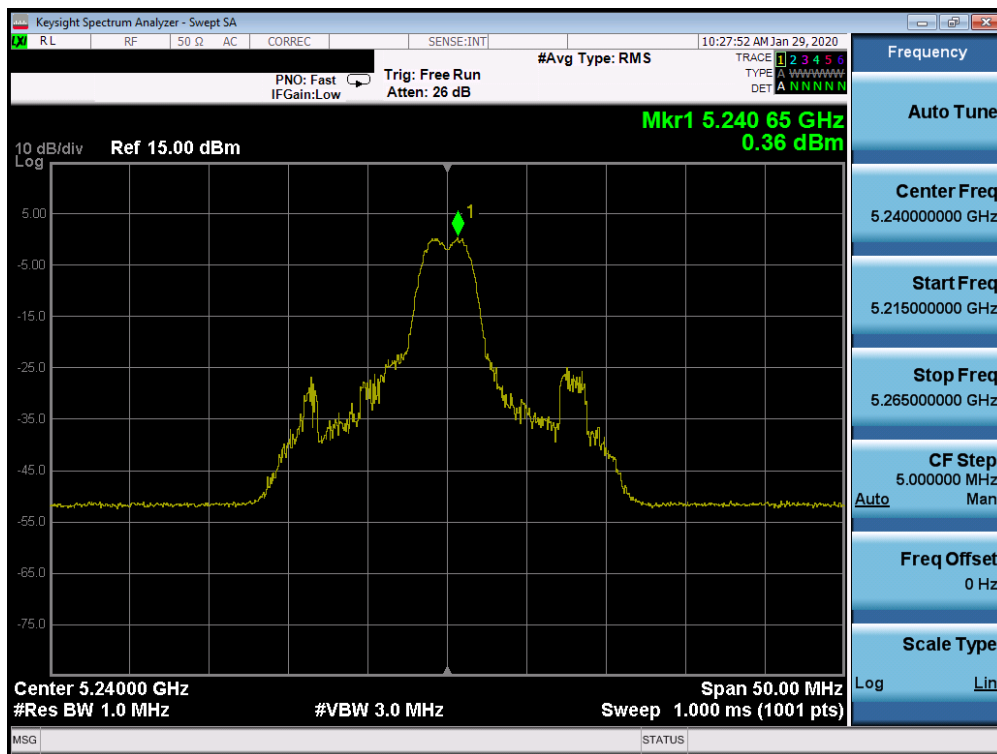


Plot 7-638. Power Spectral Density Plot ISED CDD CORE 1 (20MHz BW 802.11ax Index 0 – RU26 (UNII Band 1) – Ch. 48)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 373 of 563

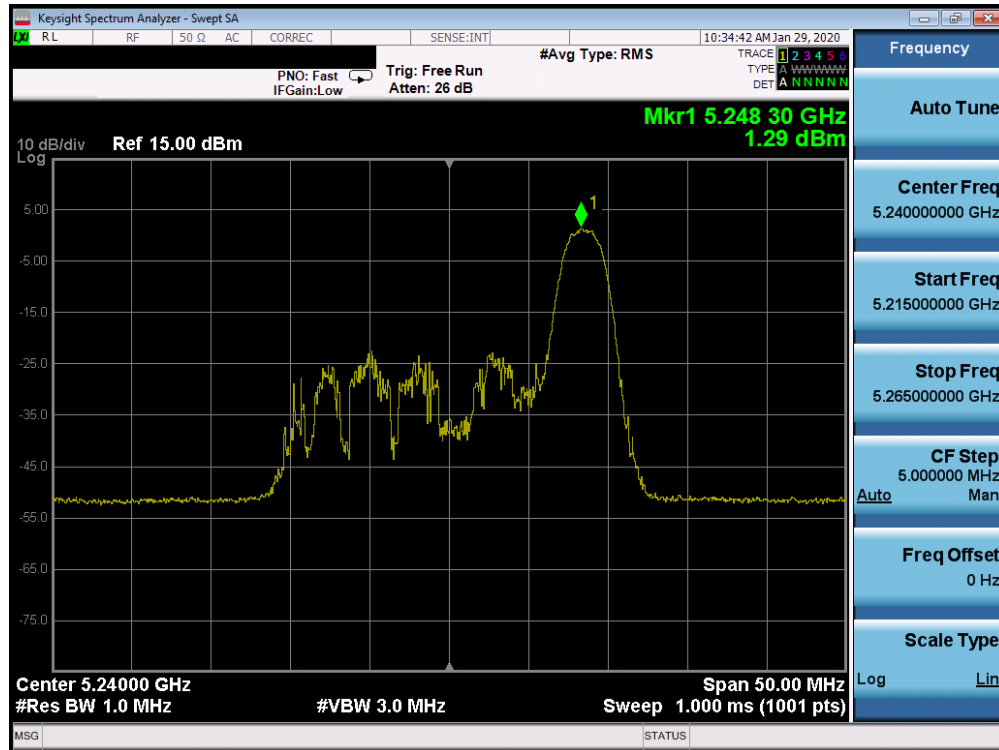


Plot 7-639. Power Spectral Density Plot ISED CDD CORE 0 (20MHz BW 802.11ax Index 4 – RU26 (UNII Band 1) – Ch. 48)

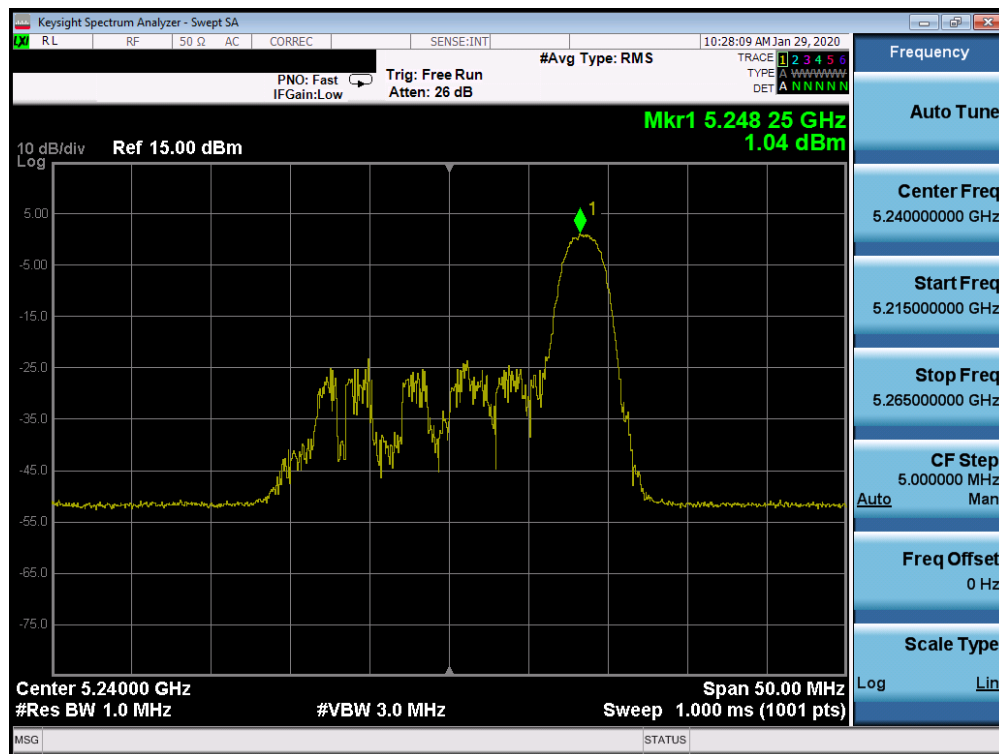


Plot 7-640. Power Spectral Density Plot ISED CDD CORE 1 (20MHz BW 802.11ax Index 4 – RU26 (UNII Band 1) – Ch. 48)

FCC ID: BCGA2229	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 374 of 563

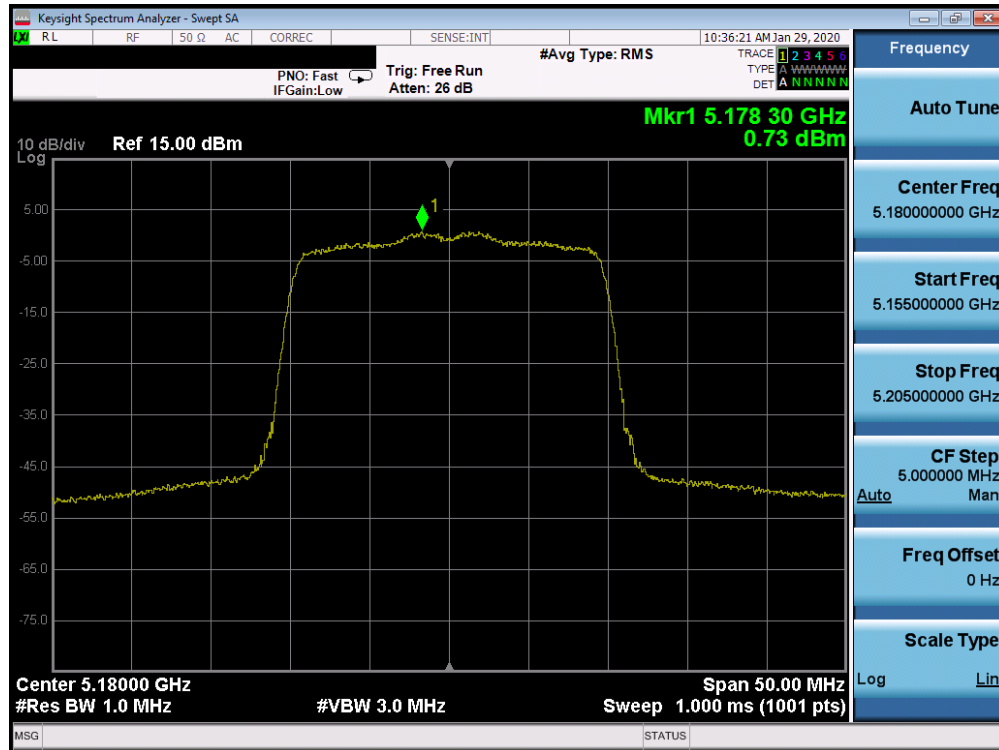


Plot 7-641. Power Spectral Density Plot ISED CDD CORE 0 (20MHz BW 802.11ax Index 8 – RU26 (UNII Band 1) – Ch. 48)

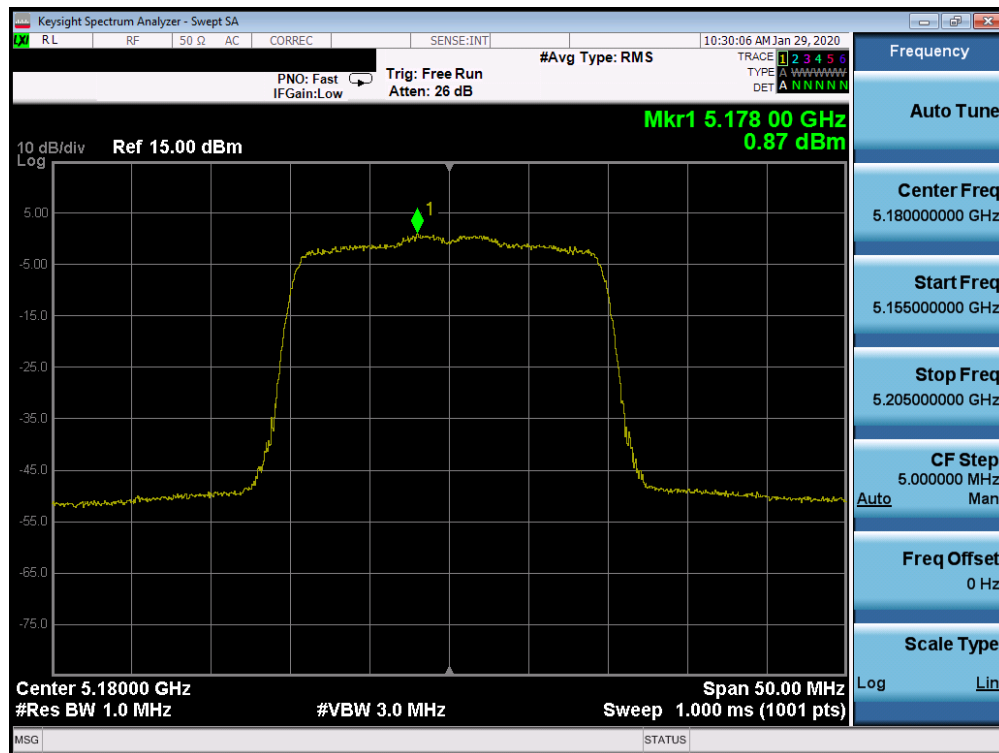


Plot 7-642. Power Spectral Density Plot ISED CDD CORE 1 (20MHz BW 802.11ax Index 8 – RU26 (UNII Band 1) – Ch. 48)

FCC ID: BCGA2229	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 375 of 563

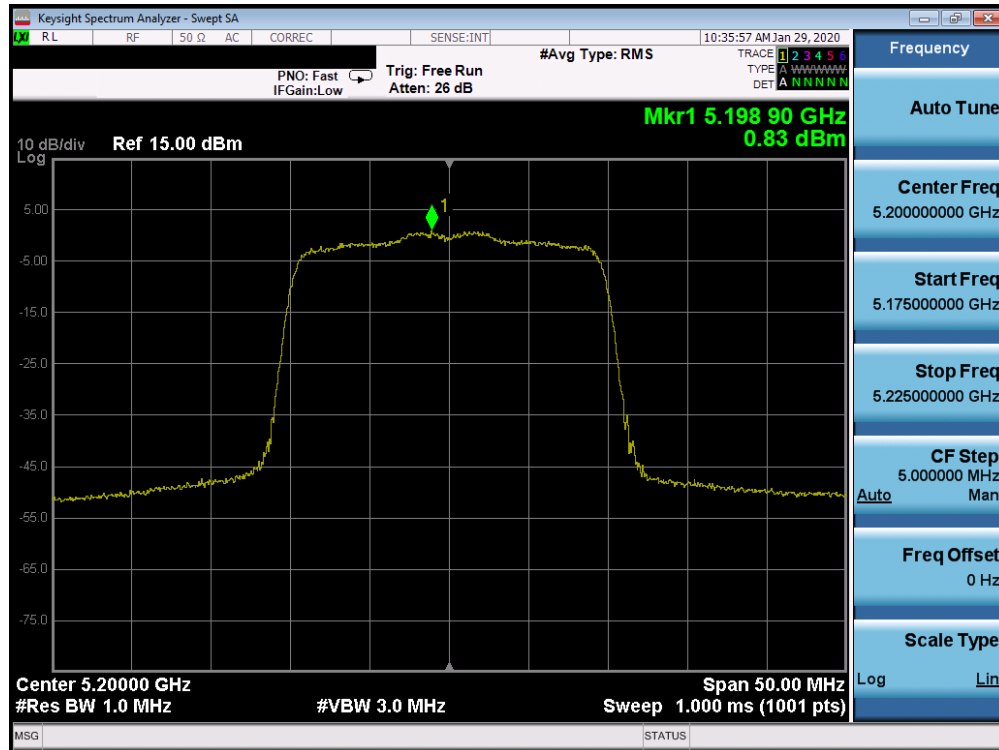


Plot 7-643. Power Spectral Density Plot ISED CDD CORE 0 (20MHz BW 802.11ax- RU242 (UNII Band 1) – Ch. 36)

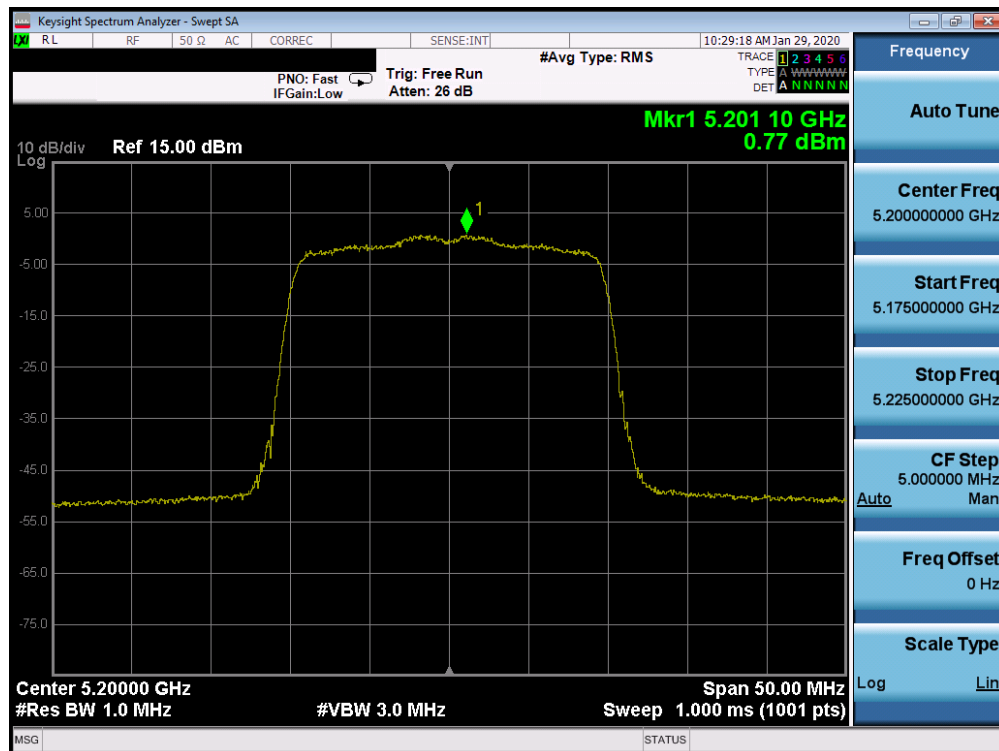


Plot 7-644. Power Spectral Density Plot ISED CDD CORE 1 (20MHz BW 802.11ax- RU242 (UNII Band 1) – Ch. 36)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 376 of 563

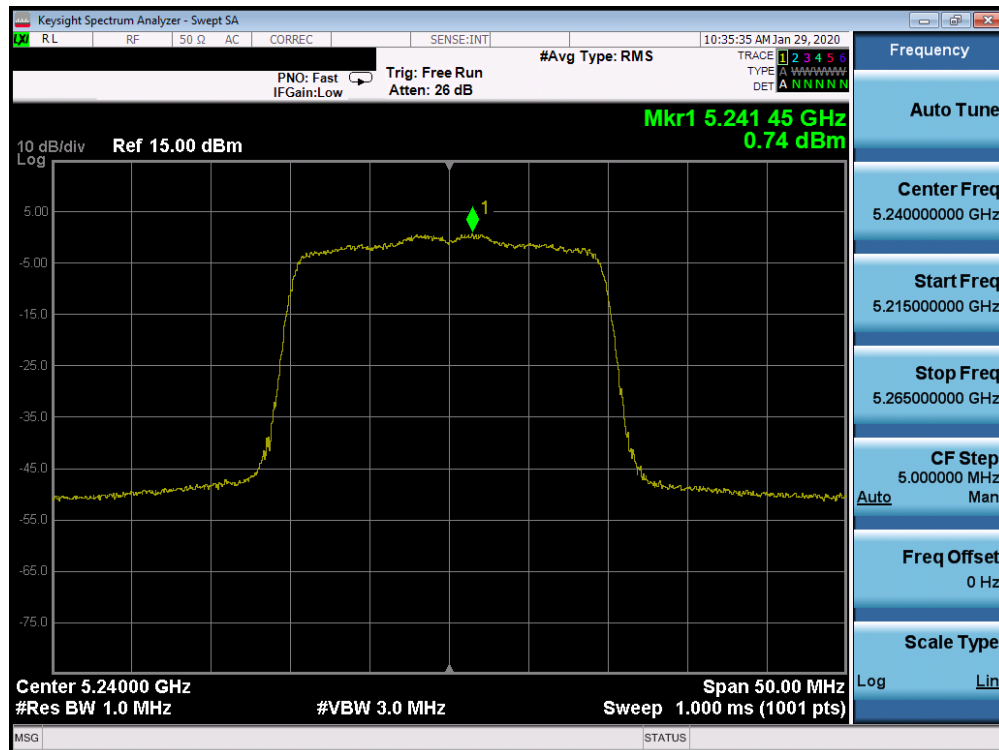


Plot 7-645. Power Spectral Density Plot ISED CDD CORE 0 (20MHz BW 802.11ax- RU242 (UNII Band 1) – Ch. 40)

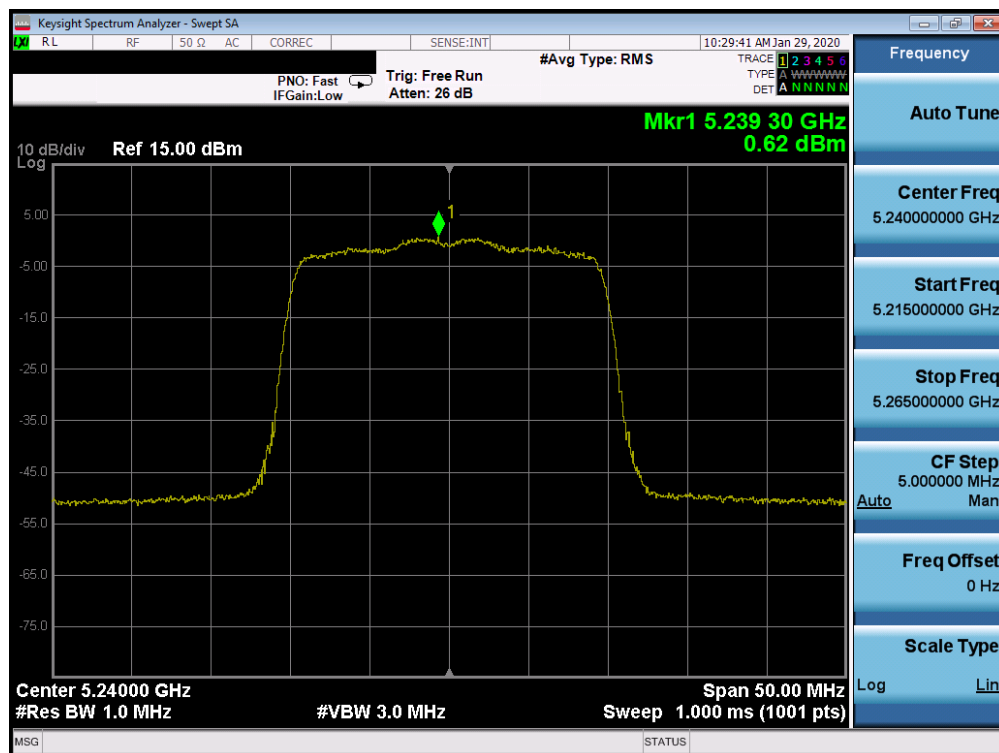


Plot 7-646. Power Spectral Density Plot ISED CDD CORE 1 (20MHz BW 802.11ax- RU242 (UNII Band 1) – Ch. 40)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 377 of 563

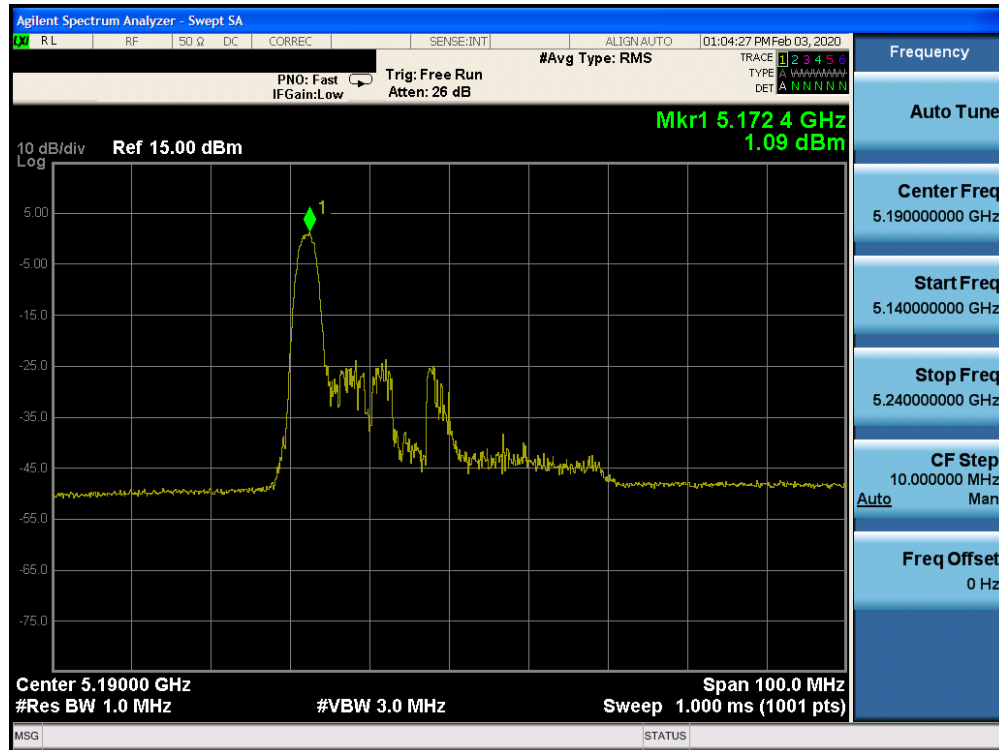


Plot 7-647. Power Spectral Density Plot ISED CDD CORE 0 (20MHz BW 802.11ax– RU242 (UNII Band 1) – Ch. 48)

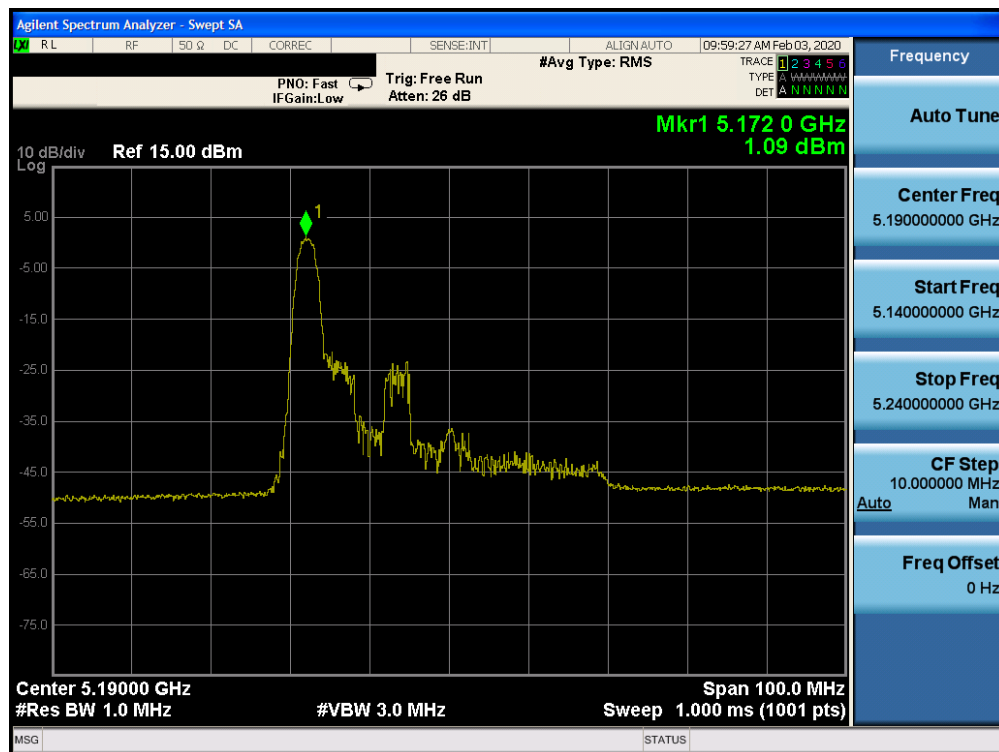


Plot 7-648. Power Spectral Density Plot ISED CDD CORE 1 (20MHz BW 802.11ax– RU242 (UNII Band 1) – Ch. 48)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 378 of 563

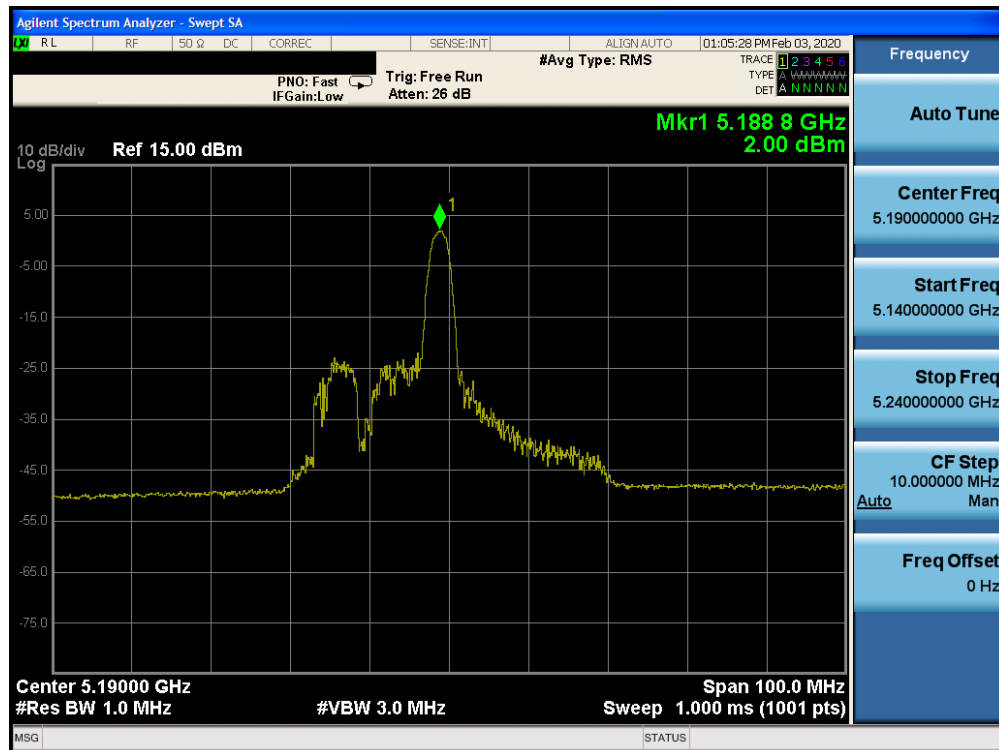


Plot 7-649. Power Spectral Density Plot ISED CDD CORE 0 (40MHz BW 802.11ax Index 0 – RU26 (UNII Band 1) – Ch. 38)

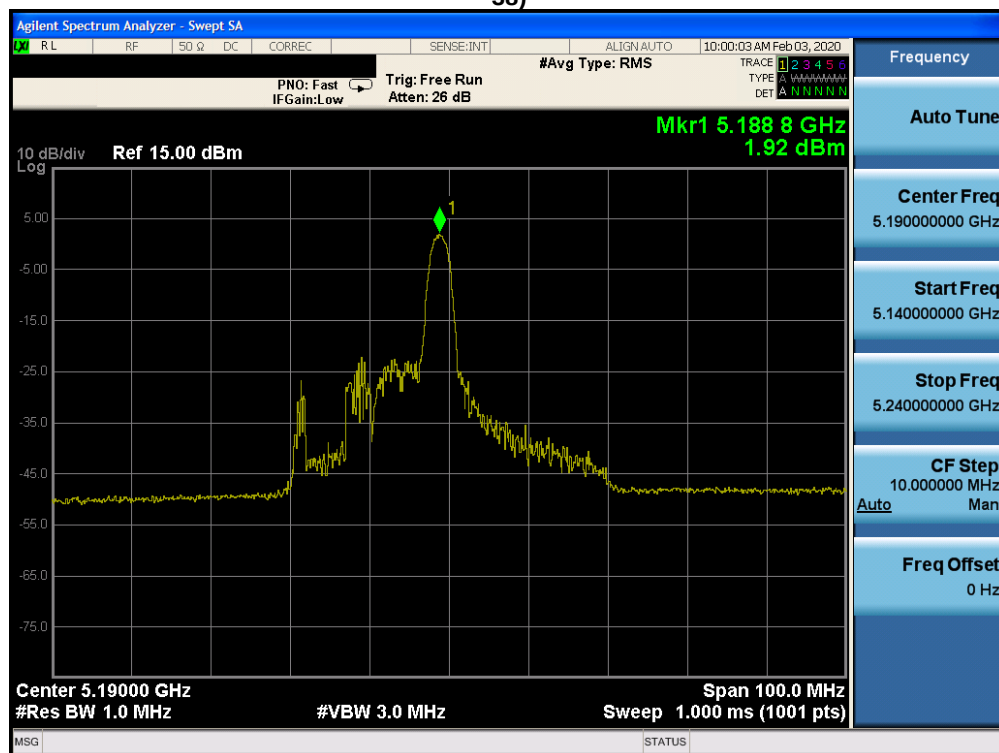


Plot 7-650. Power Spectral Density Plot ISED CDD CORE 1 (40MHz BW 802.11ax Index 0 – RU26 (UNII Band 1) – Ch. 38)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 379 of 563

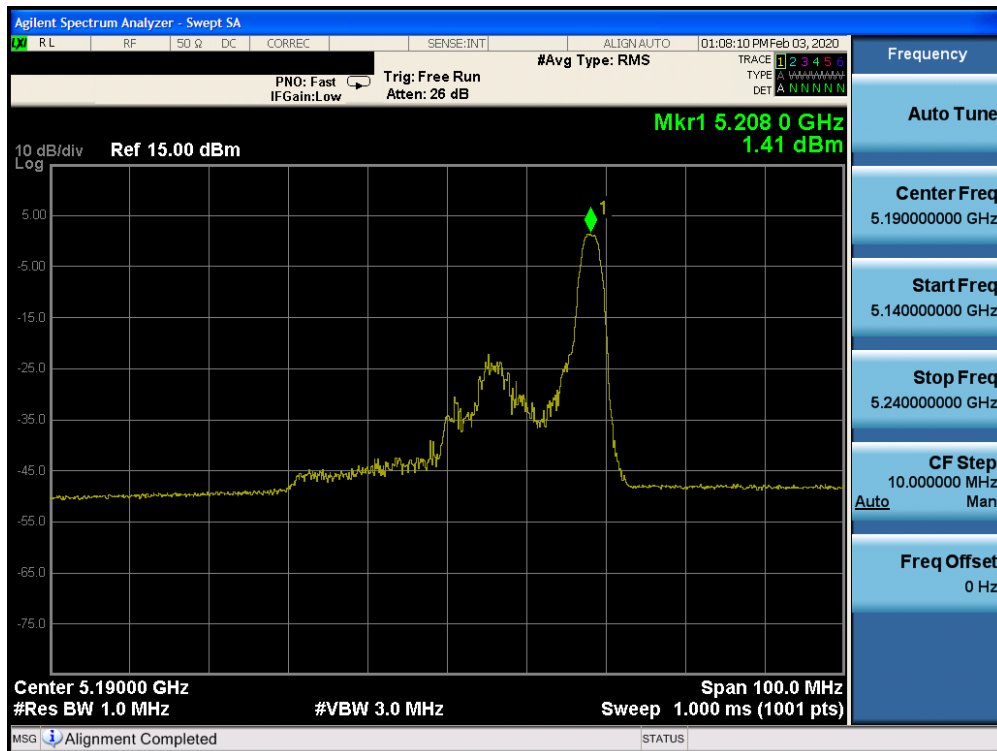


Plot 7-651. Power Spectral Density Plot ISED CDD CORE 0 (40MHz BW 802.11ax Index 8 – RU26 (UNII Band 1) – Ch. 38)

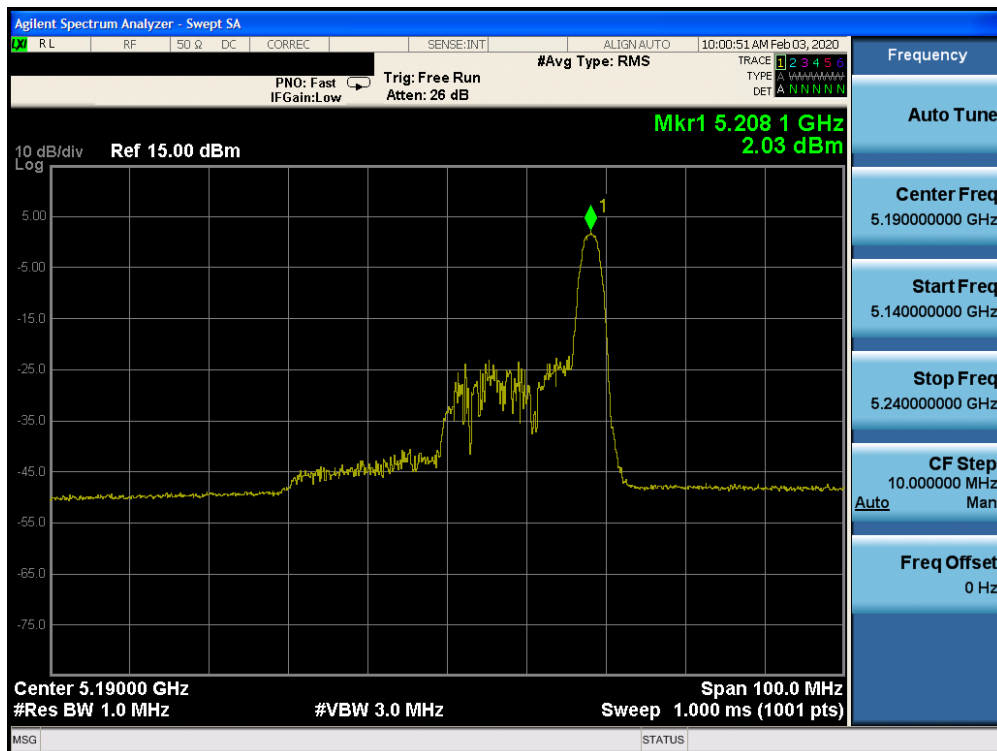


Plot 7-652. Power Spectral Density Plot ISED CDD CORE 1 (40MHz BW 802.11ax Index 8 – RU26 (UNII Band 1) – Ch. 38)

FCC ID: BCGA2229	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 380 of 563

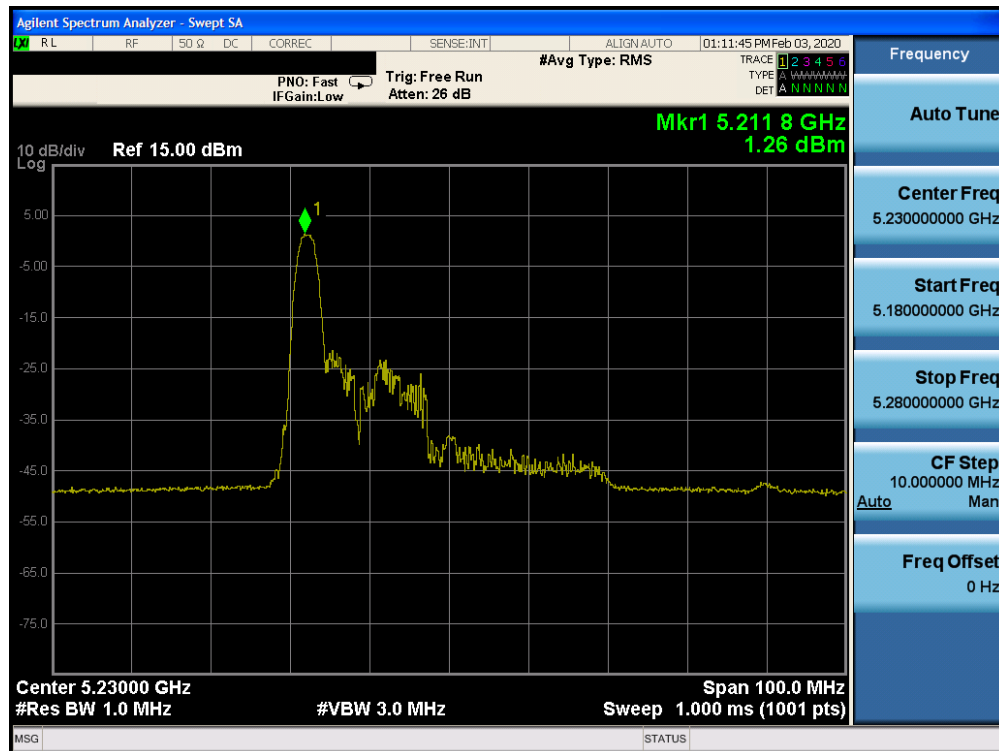


Plot 7-653. Power Spectral Density Plot ISED CDD CORE 0 (40MHz BW 802.11ax Index 17 – RU26 (UNII Band 1) – Ch. 38)

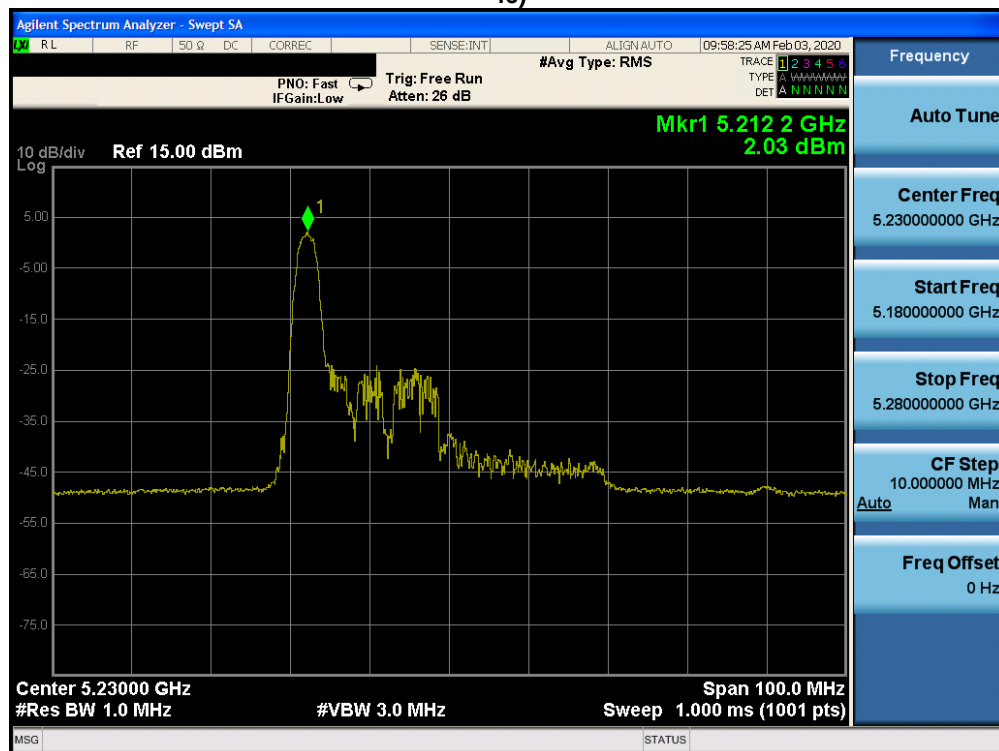


Plot 7-654. Power Spectral Density Plot ISED CDD CORE 1 (40MHz BW 802.11ax Index 17 – RU26 (UNII Band 1) – Ch. 38)

FCC ID: BCGA2229	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 381 of 563

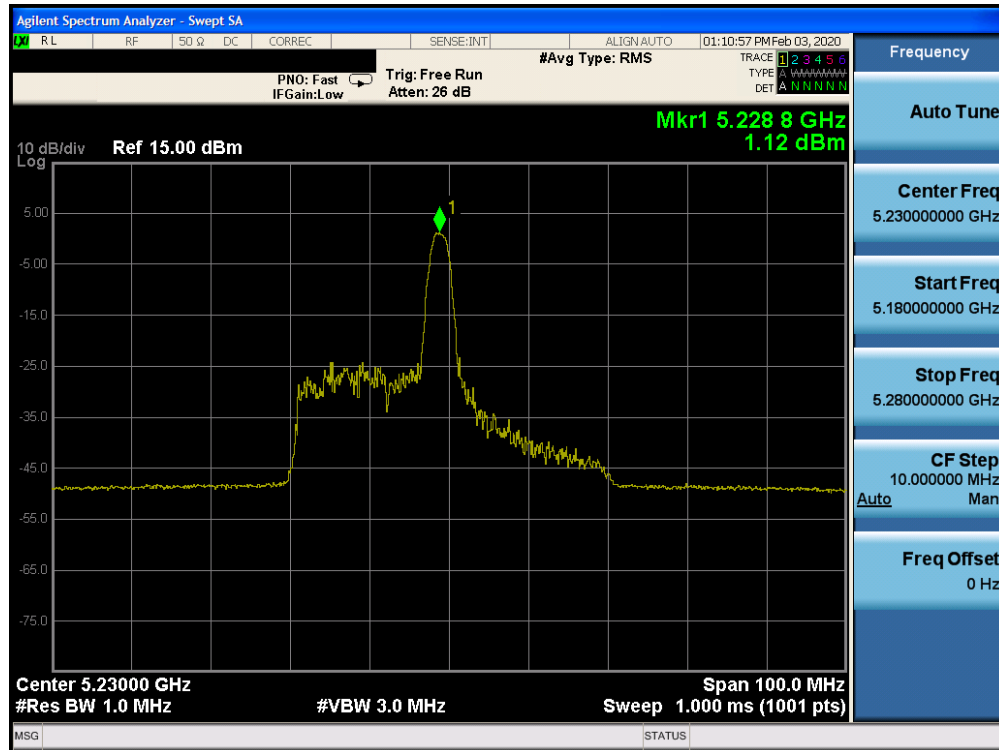


Plot 7-655. Power Spectral Density Plot ISD CDD CORE 0 (40MHz BW 802.11ax Index 0 – RU26 (UNII Band 1) – Ch. 46)

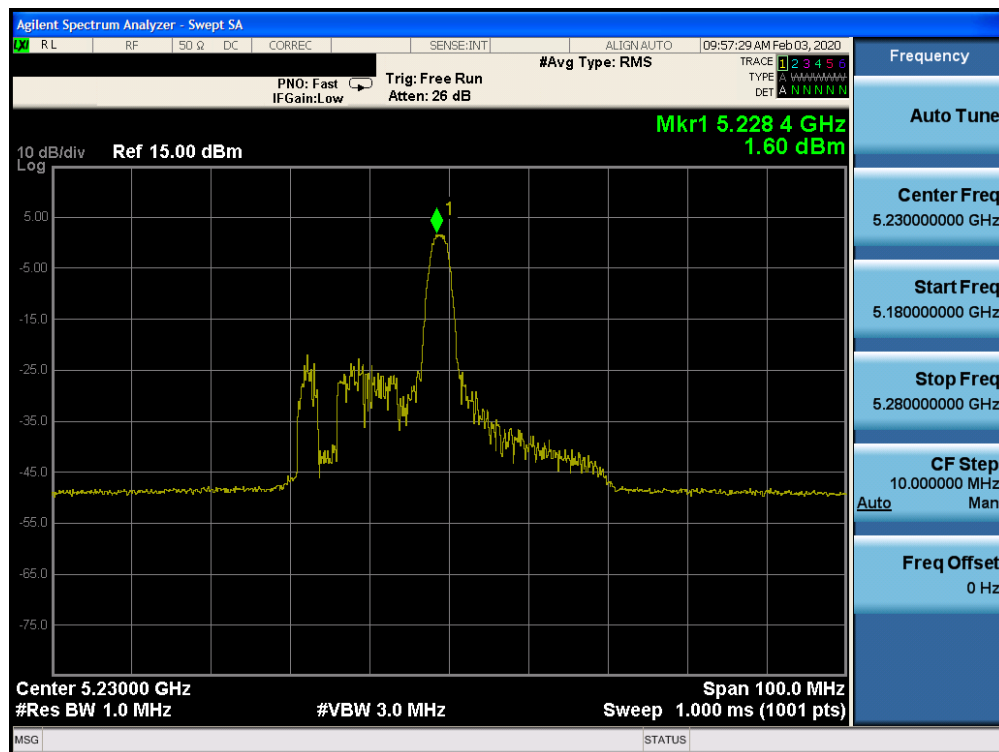


Plot 7-656. Power Spectral Density Plot ISD CDD CORE 1 (40MHz BW 802.11ax Index 0 – RU26 (UNII Band 1) – Ch. 46)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 382 of 563

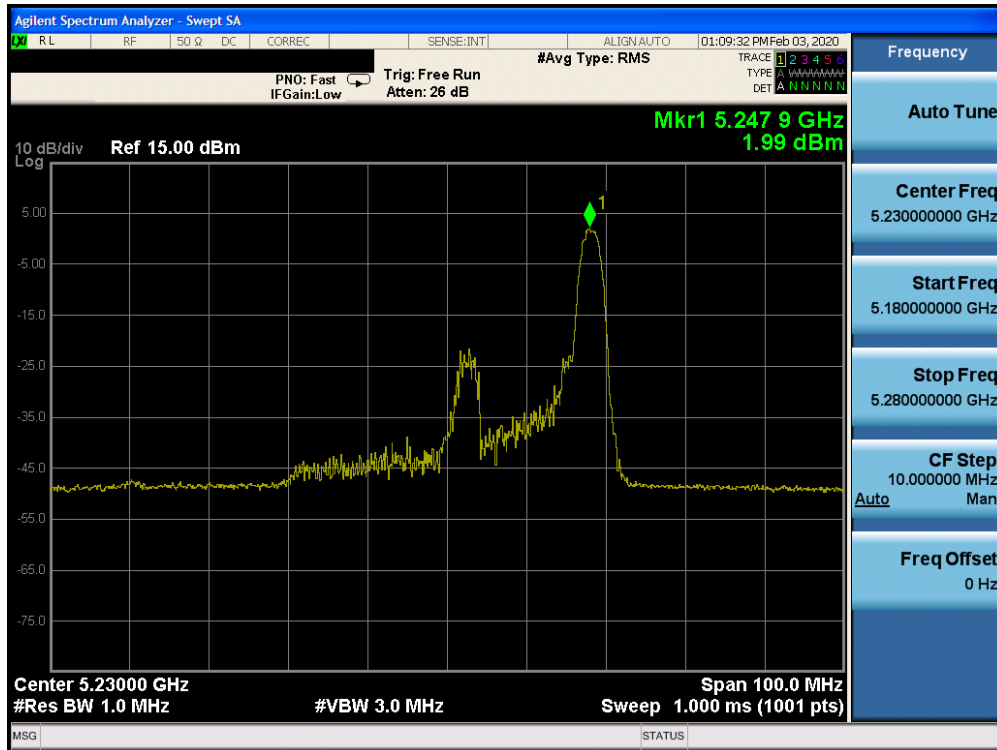


Plot 7-657. Power Spectral Density Plot ISED CDD CORE 0 (40MHz BW 802.11ax Index 8 – RU26 (UNII Band 1) – Ch. 46)

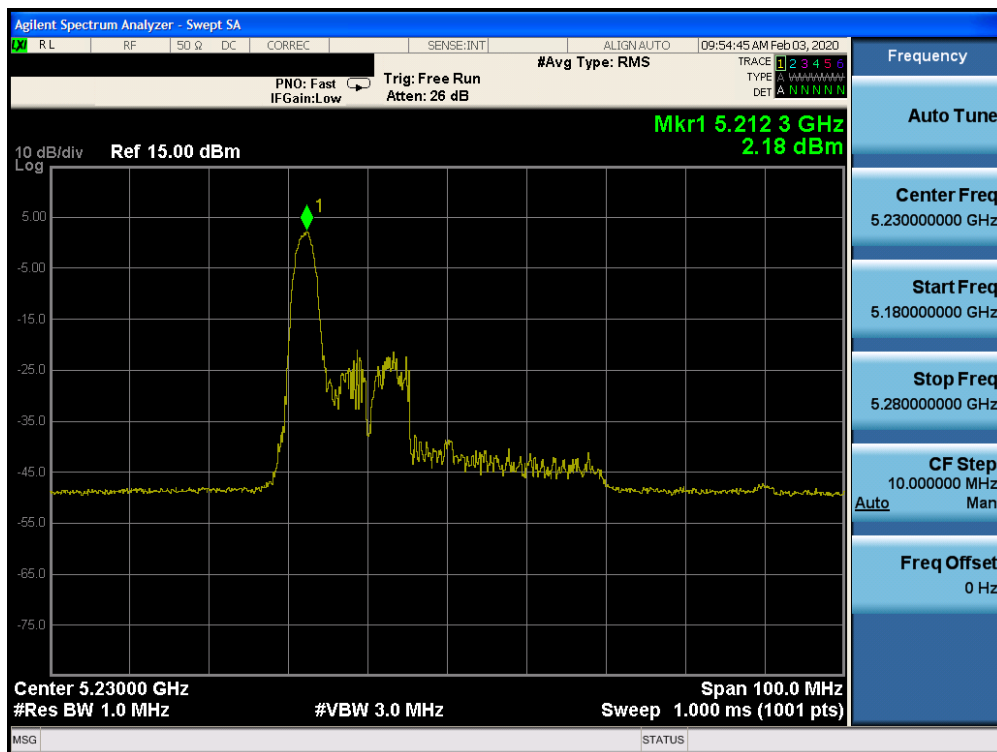


Plot 7-658. Power Spectral Density Plot ISED CDD CORE 1 (40MHz BW 802.11ax Index 8 – RU26 (UNII Band 1) – Ch. 46)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 383 of 563

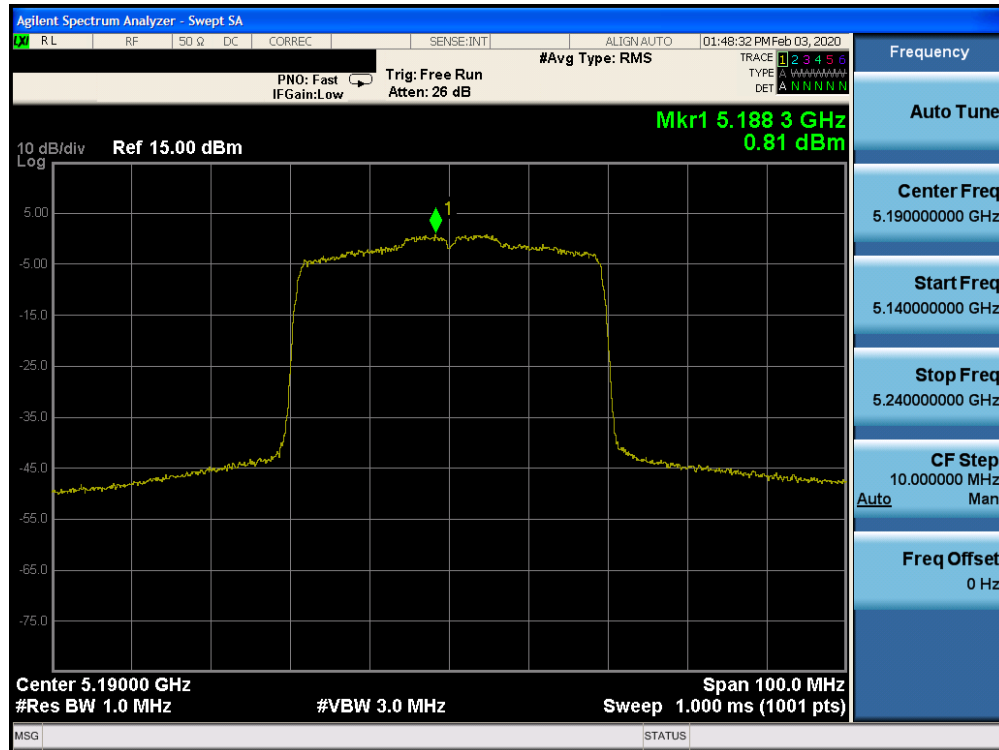


Plot 7-659. Power Spectral Density Plot ISED CDD CORE 0 (40MHz BW 802.11ax Index 17 – RU26 (UNII Band 1) – Ch. 46)

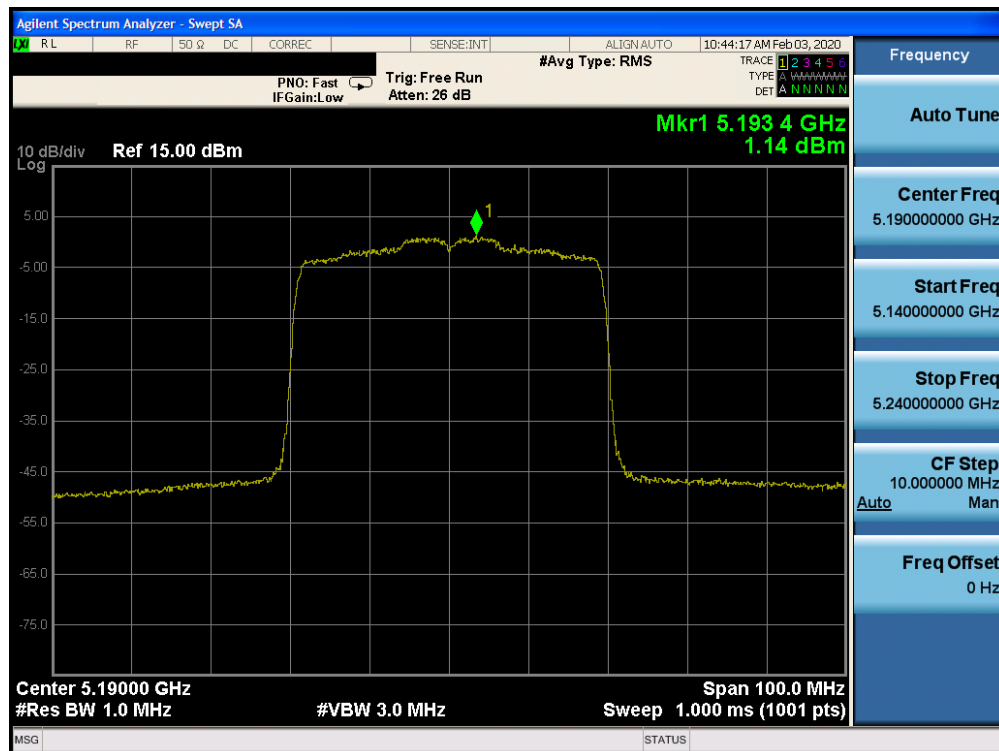


Plot 7-660. Power Spectral Density Plot ISED CDD CORE 1 (40MHz BW 802.11ax Index 17 – RU26 (UNII Band 1) – Ch. 46)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 384 of 563

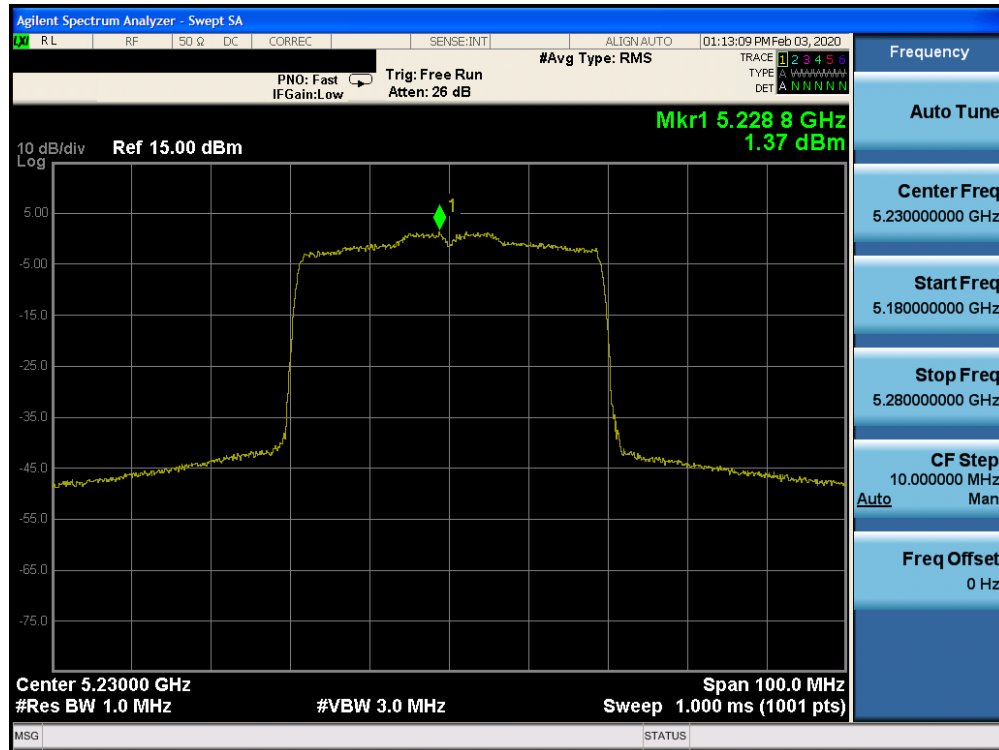


Plot 7-661. Power Spectral Density Plot ISED CDD CORE 0 (40MHz BW 802.11ax – RU484 (UNII Band 1) – Ch. 38)

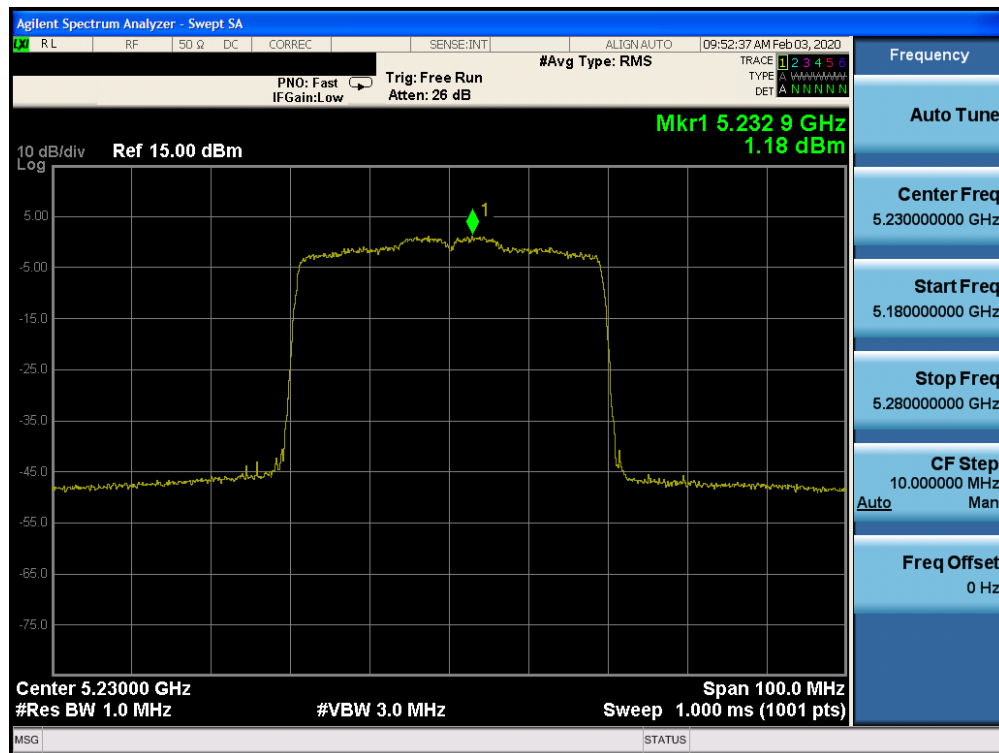


Plot 7-662. Power Spectral Density Plot ISED CDD CORE 1 (40MHz BW 802.11ax – RU484 (UNII Band 1) – Ch. 38)

FCC ID: BCGA2229	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 385 of 563

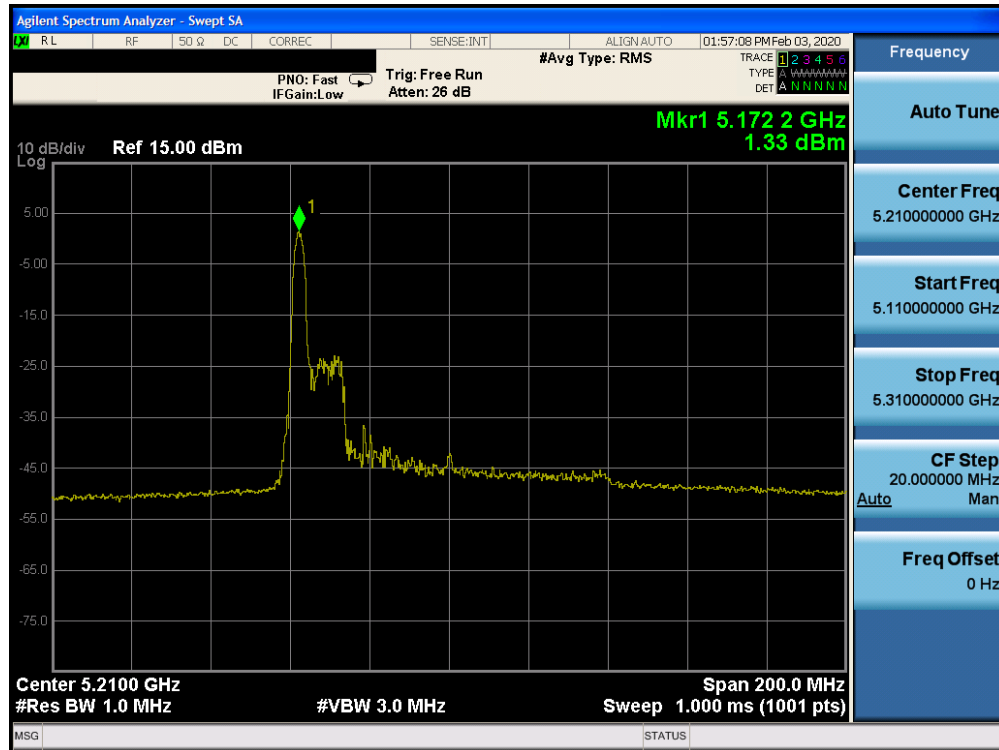


Plot 7-663. Power Spectral Density Plot ISED CDD CORE 0 (40MHz BW 802.11ax – RU484 (UNII Band 1) – Ch. 46)

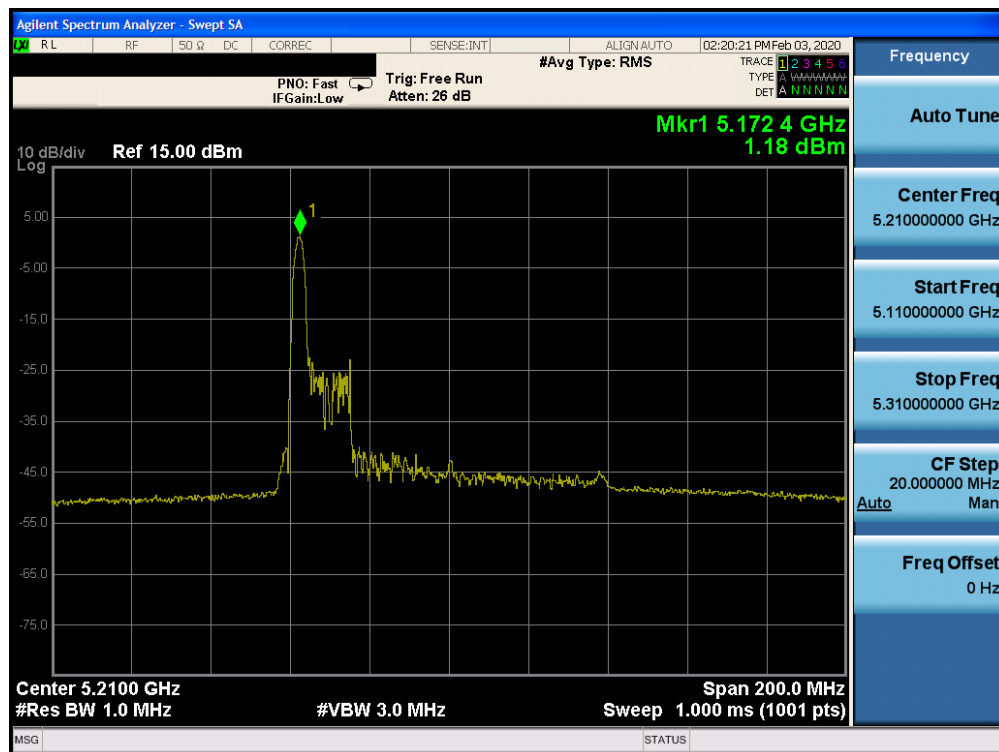


Plot 7-664. Power Spectral Density Plot ISED CDD CORE 1 (40MHz BW 802.11ax – RU484 (UNII Band 1) – Ch. 46)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 386 of 563

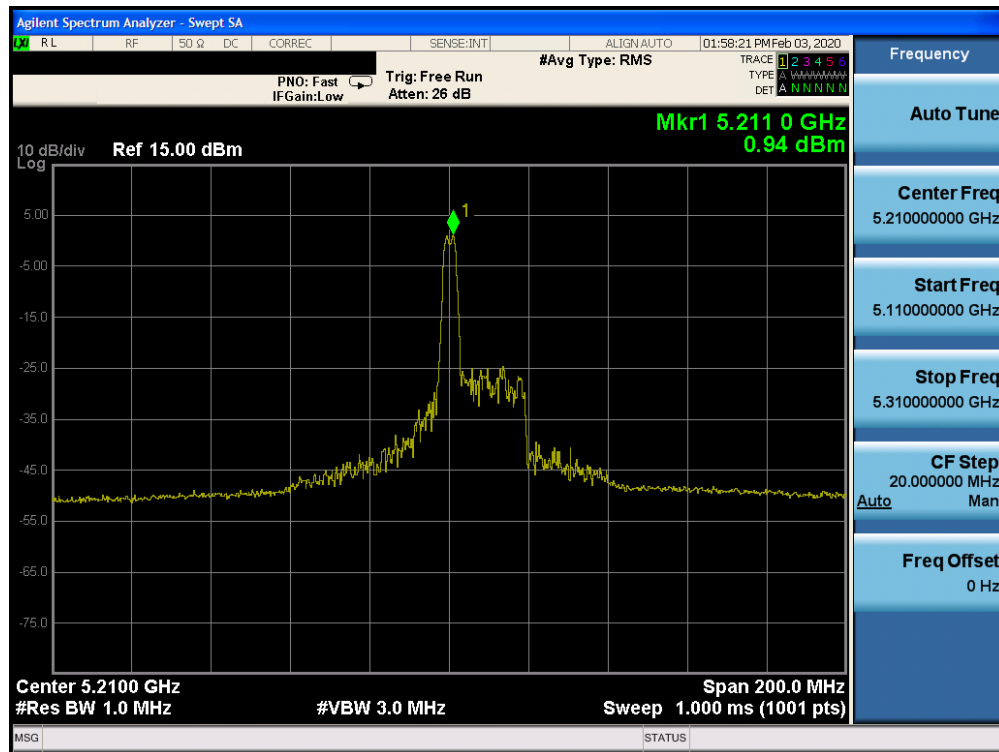


Plot 7-665. Power Spectral Density Plot ISED CDD CORE 0 (80MHz BW 802.11ax Index 0 – RU26 (UNII Band 1) – Ch. 42)

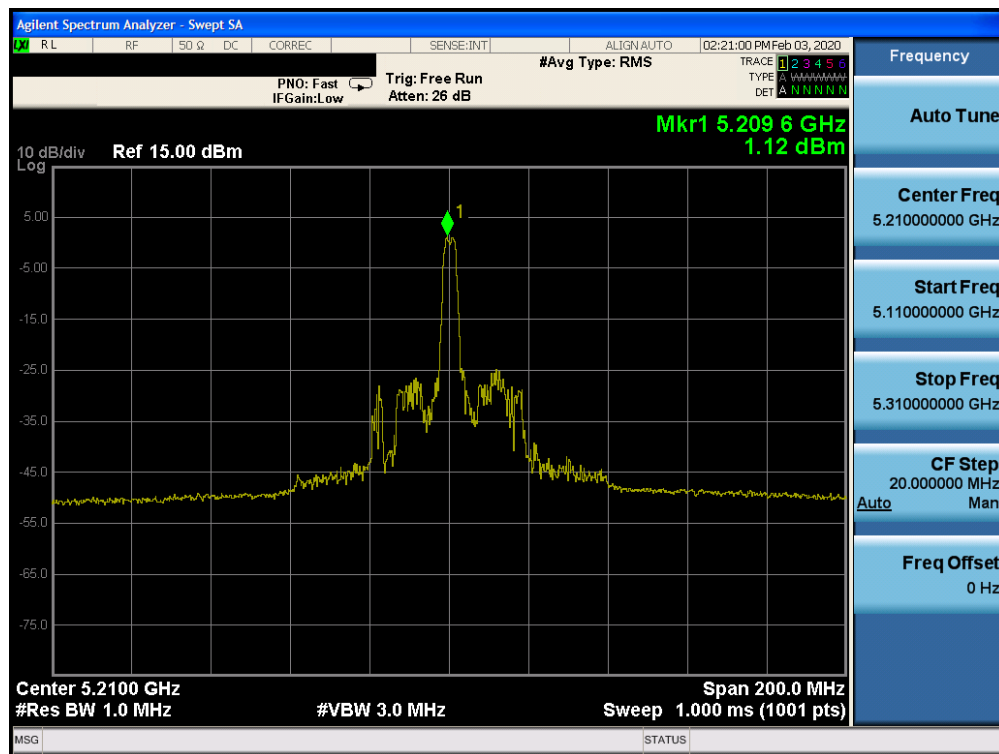


Plot 7-666. Power Spectral Density Plot ISED CDD CORE 1 (80MHz BW 802.11ax Index 0 – RU26 (UNII Band 1) – Ch. 42)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 387 of 563

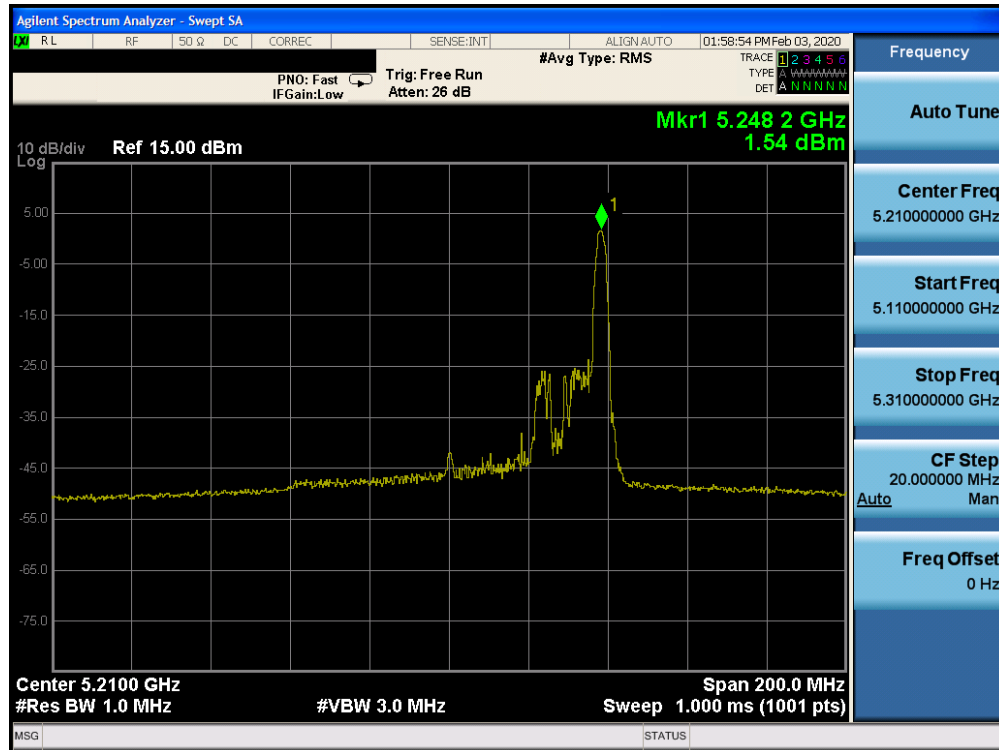


Plot 7-667. Power Spectral Density Plot ISED CDD CORE 0 (80MHz BW 802.11ax Index 18 – RU26 (UNII Band 1) – Ch. 42)

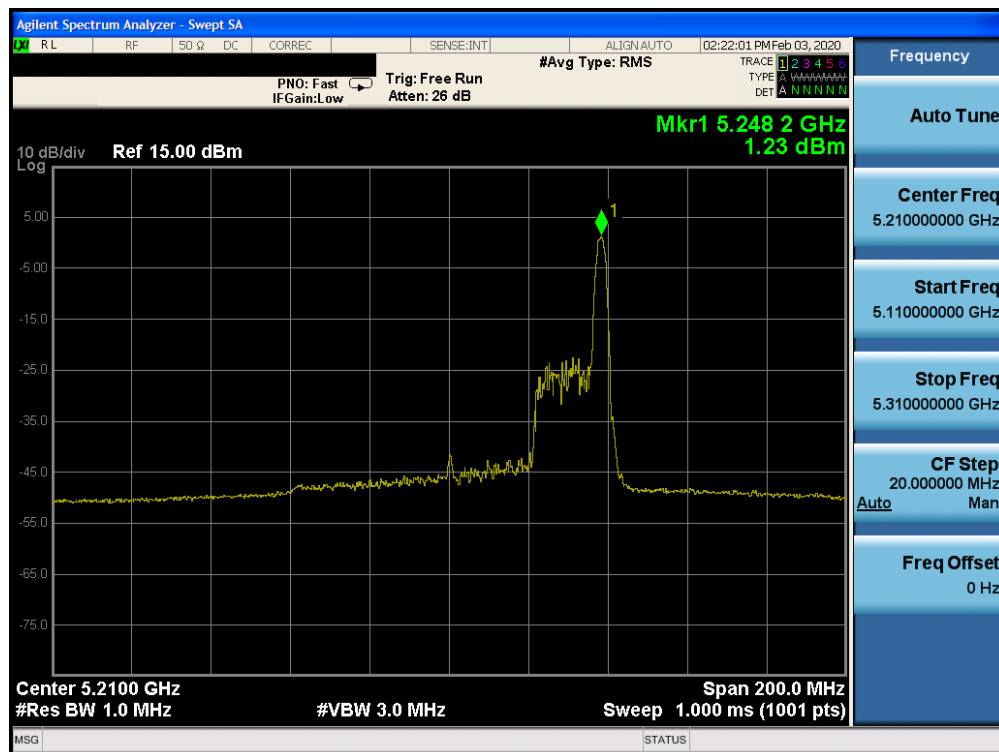


Plot 7-668. Power Spectral Density Plot ISED CDD CORE 1 (80MHz BW 802.11ax Index 18 – RU26 (UNII Band 1) – Ch. 42)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 388 of 563

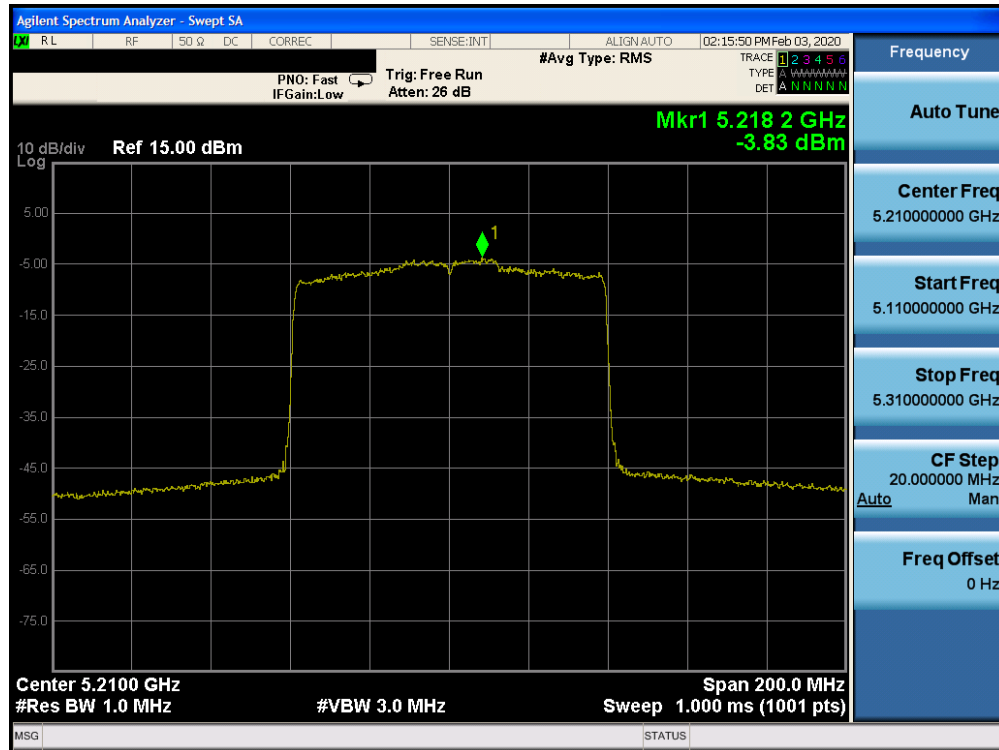


Plot 7-669. Power Spectral Density Plot ISED CDD CORE 0 (80MHz BW 802.11ax Index 36 – RU26 (UNII Band 1) – Ch. 42)

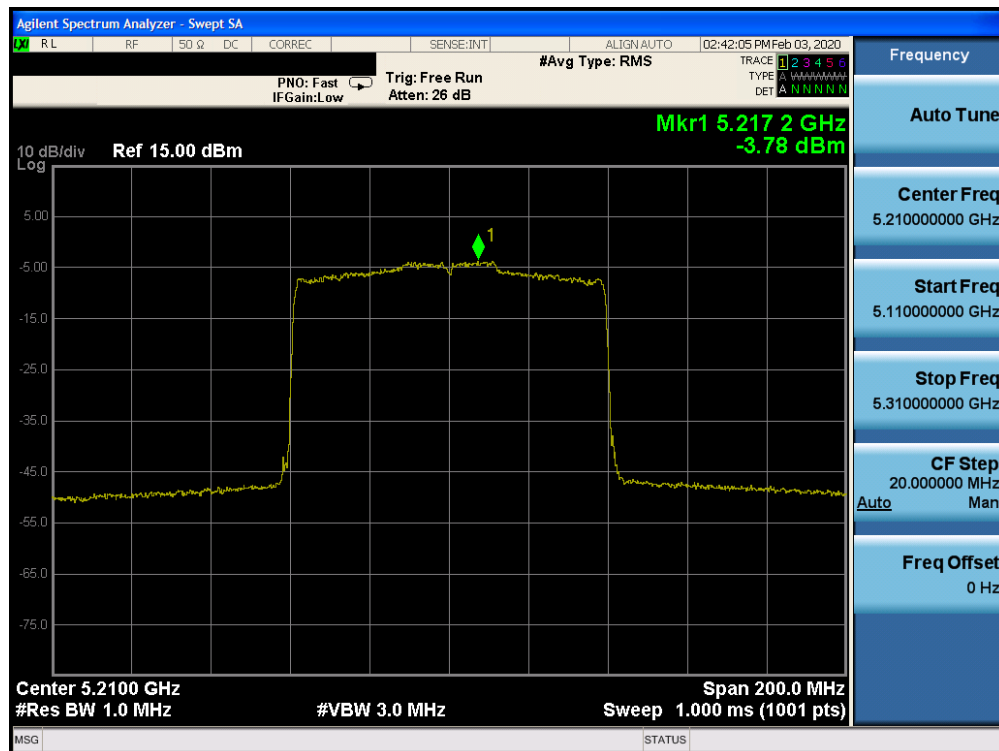


Plot 7-670. Power Spectral Density Plot ISED CDD CORE 1 (80MHz BW 802.11ax Index 36 – RU26 (UNII Band 1) – Ch. 42)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 389 of 563



Plot 7-671. Power Spectral Density Plot ISCED CDD CORE 0 (80MHz BW 802.11ax – RU996 (UNII Band 1) – Ch. 42)



Plot 7-672. Power Spectral Density Plot ISCED CDD CORE 1 (80MHz BW 802.11ax – RU996 (UNII Band 1) – Ch. 42)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 390 of 563

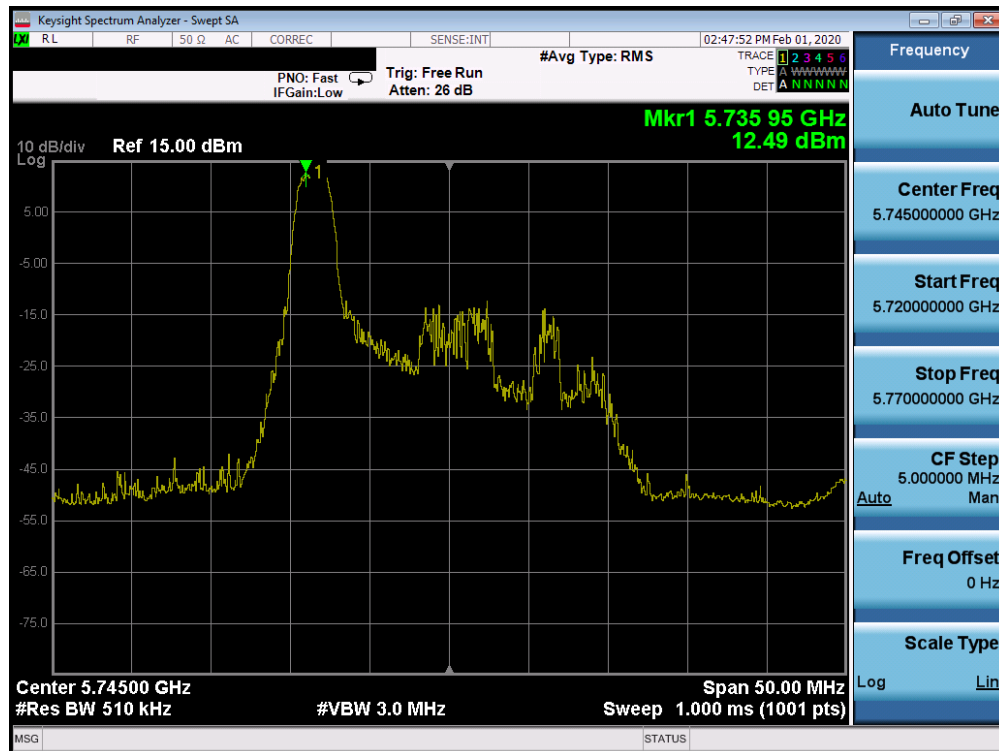
	Frequency [MHz]	Channel No.	802.11 Mode	RU Size	RU Index	Data Rate [Mbps]	Core 0 Power Density [dBm/500kHz]	Core 1 Power Density [dBm/500kHz]	Summed Power Density [dBm/500kHz]	Max Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	ax (20MHz)	26	0	MCS0	12.49	11.73	15.14	30.00	-14.86
				26	4	MCS0	12.37	11.81	15.11	30.00	-14.89
				26	8	MCS0	12.54	11.87	15.23	30.00	-14.77
	5785	157	ax (20MHz)	26	0	MCS0	12.42	11.58	15.03	30.00	-14.97
				26	4	MCS0	12.37	11.77	15.09	30.00	-14.91
				26	8	MCS0	12.37	11.90	15.15	30.00	-14.85
	5825	165	ax (20MHz)	26	0	MCS0	12.07	11.45	14.78	30.00	-15.22
				26	4	MCS0	11.90	11.88	14.90	30.00	-15.10
				26	8	MCS0	12.13	12.00	15.08	30.00	-14.92
	5755	151	ax (40MHz)	26	0	MCS0	12.94	12.15	15.57	30.00	-14.43
				26	8	MCS0	13.13	12.31	15.75	30.00	-14.25
				26	17	MCS0	13.37	12.32	15.89	30.00	-14.11
	5795	159	ax (40MHz)	26	0	MCS0	12.45	12.07	15.27	30.00	-14.73
				26	8	MCS0	12.57	11.57	15.11	30.00	-14.89
				26	17	MCS0	12.28	11.49	14.91	30.00	-15.09
	5775	155	ax (80MHz)	26	0	MCS0	11.03	9.97	13.54	30.00	-16.46
				26	18	MCS0	10.40	9.89	13.16	30.00	-16.84
				26	36	MCS0	10.29	9.81	13.07	30.00	-16.93

Table 7-80. Band 3 Conducted Power Spectral Density Measurements CDD/SDM (RU26)

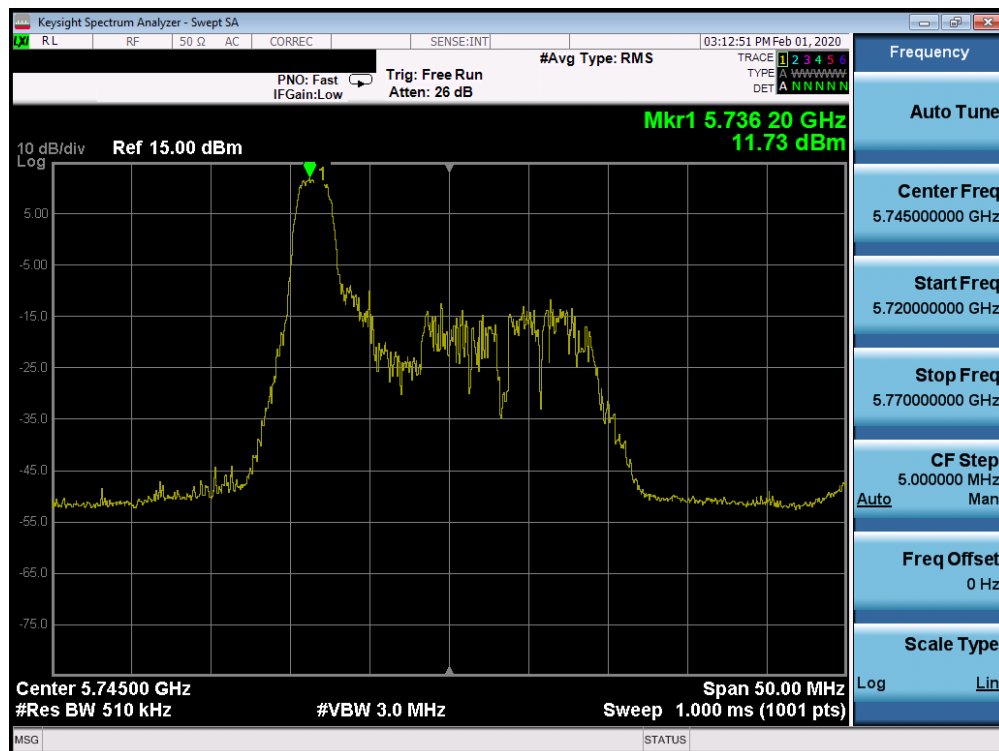
	Frequency [MHz]	Channel No.	802.11 Mode	RU Size	RU Size	Data Rate [Mbps]	Core 0 Power Density [dBm/500kHz]	Core 1 Power Density [dBm/500kHz]	Summed Power Density [dBm/500kHz]	Max Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	ax (20MHz)	242	61	MCS0	4.33	4.00	7.18	30.00	-22.82
	5785	157	ax (20MHz)	242	61	MCS0	4.49	4.00	7.26	30.00	-22.74
	5825	165	ax (20MHz)	242	61	MCS0	4.09	4.15	7.13	30.00	-22.87
	5755	151	ax (40MHz)	484	65	MCS0	2.65	1.83	5.27	30.00	-24.73
	5795	159	ax (40MHz)	484	65	MCS0	1.89	1.37	4.65	30.00	-25.35
	5775	155	ax (80MHz)	996	67	MCS0	-3.75	-3.40	-0.56	30.00	-30.56

Table 7-81. Band 3 Conducted Power Spectral Density Measurements CDD/SDM (Fully-loaded RU)

FCC ID: BCGA2229	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 391 of 563

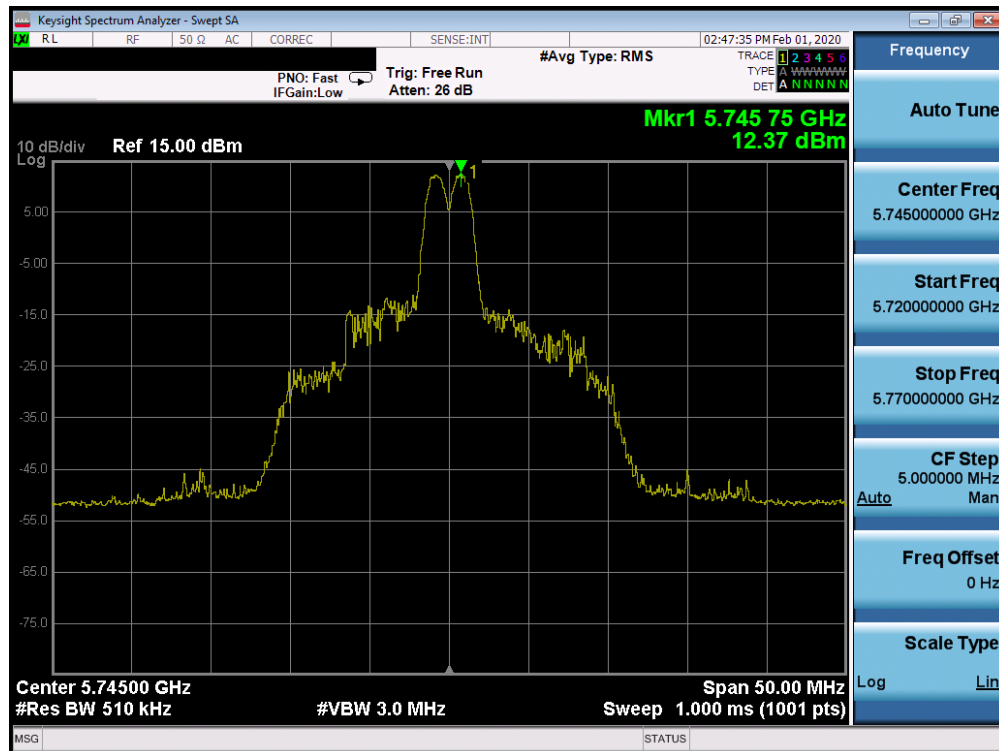


Plot 7-673. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11ax Index 0 – RU26 (UNII Band 3) – Ch. 149)

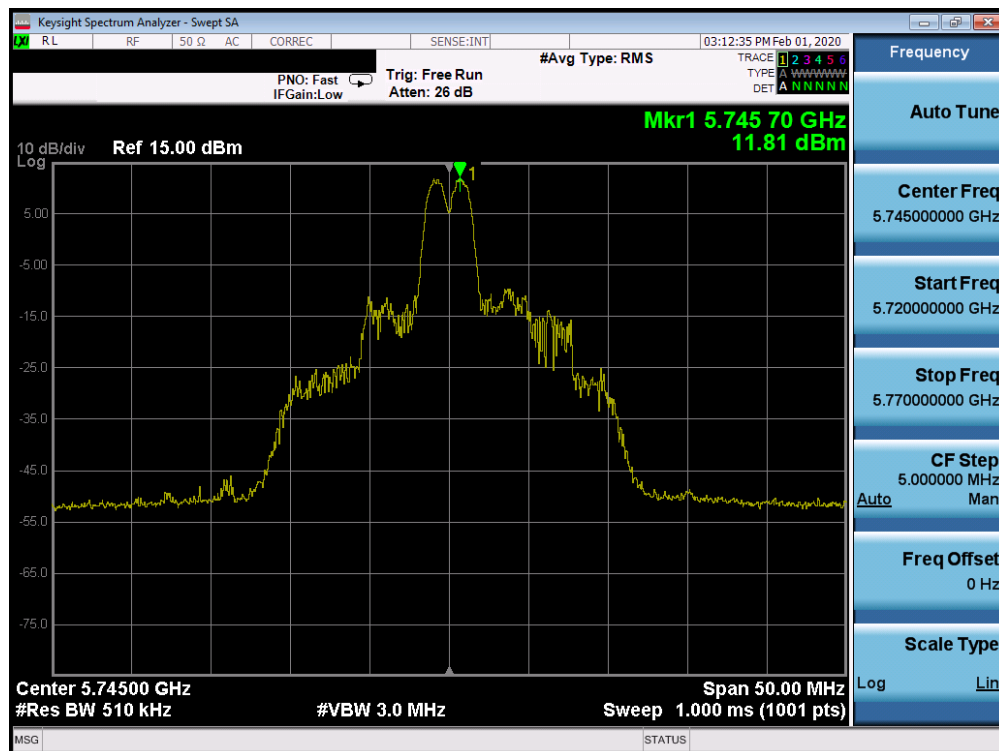


Plot 7-674. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11ax Index 0 – RU26 (UNII Band 3) – Ch. 149)

FCC ID: BCGA2229	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 392 of 563

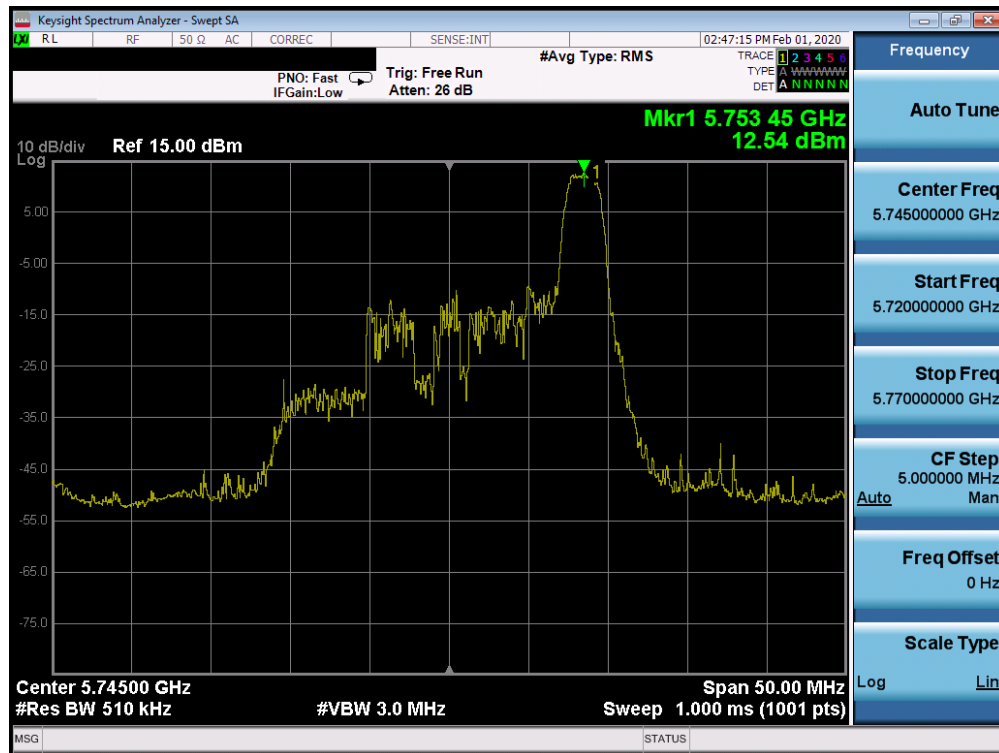


Plot 7-675. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11ax Index 4 – RU26 (UNII Band 3) – Ch. 149)

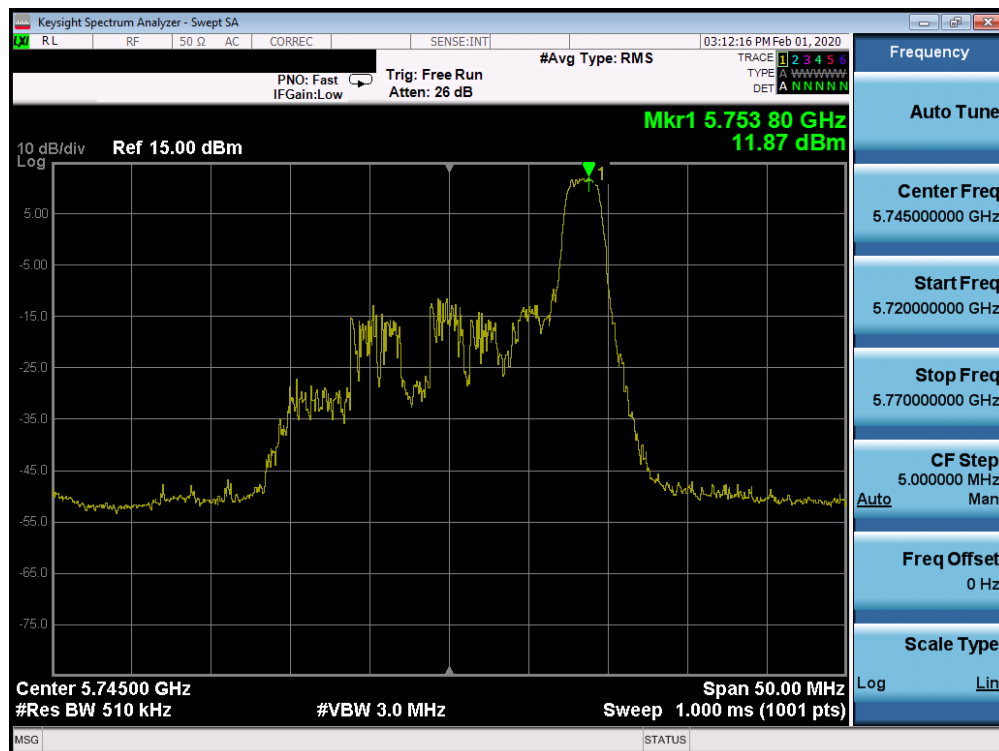


Plot 7-676. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11ax Index 4 – RU26 (UNII Band 3) – Ch. 149)

FCC ID: BCGA2229	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 393 of 563

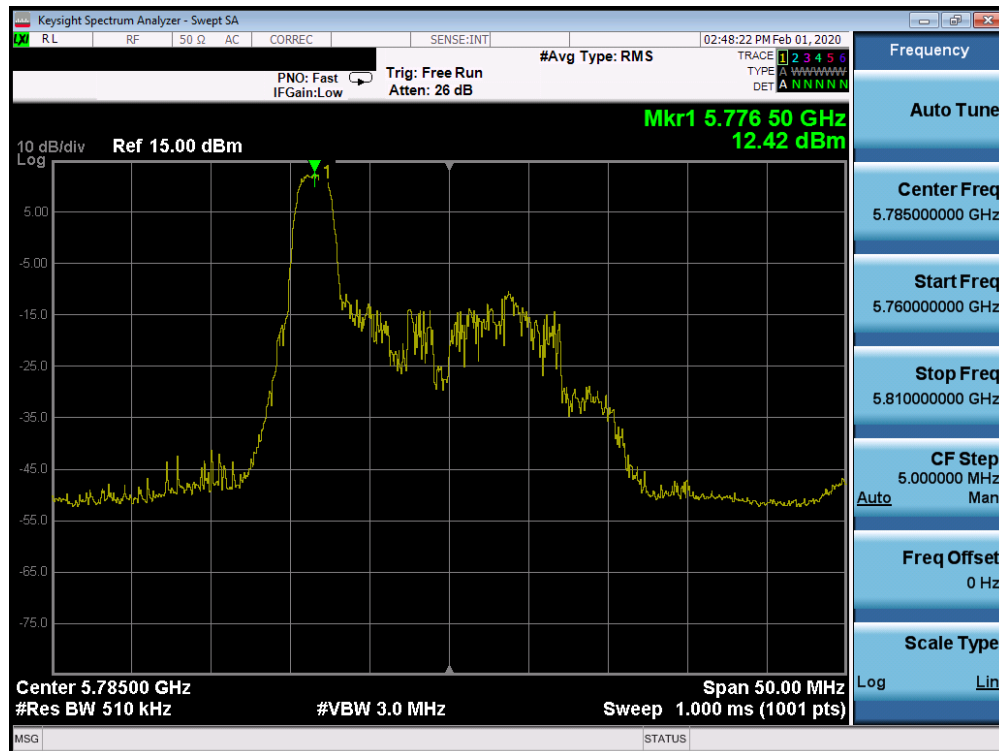


Plot 7-677. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11ax Index 8 – RU26 (UNII Band 3) – Ch. 149)

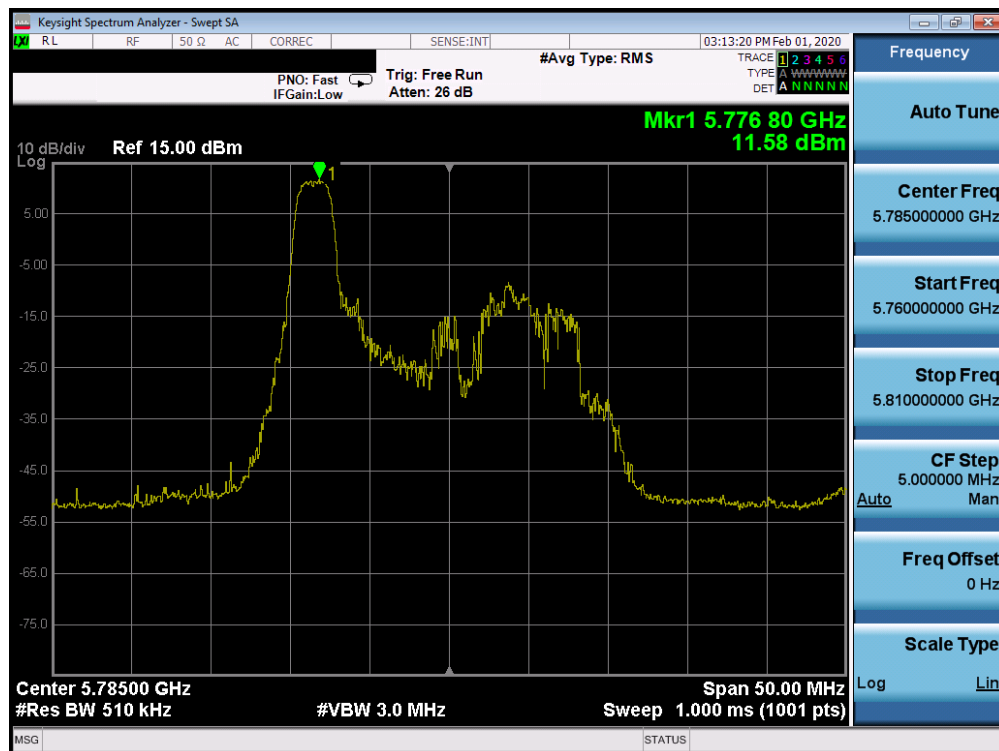


Plot 7-678. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11ax Index 8 – RU26 (UNII Band 3) – Ch. 149)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 394 of 563



Plot 7-679. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11ax Index 0 – RU26 (UNII Band 3) – Ch. 157)

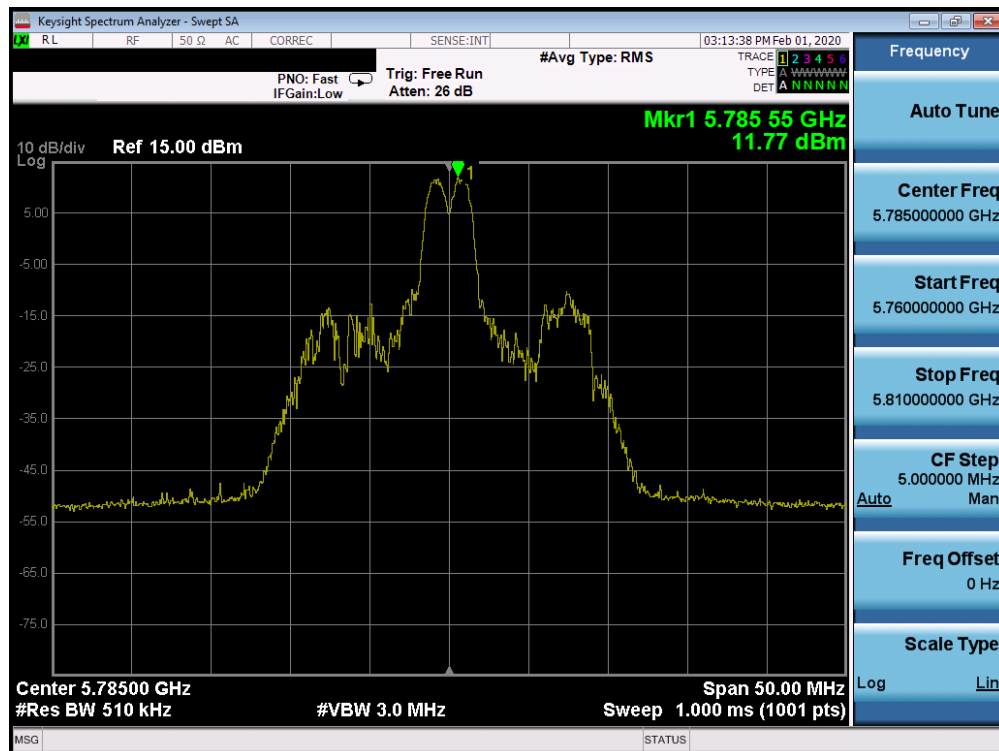


Plot 7-680. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11ax Index 0 – RU26 (UNII Band 3) – Ch. 157)

FCC ID: BCGA2229	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 395 of 563

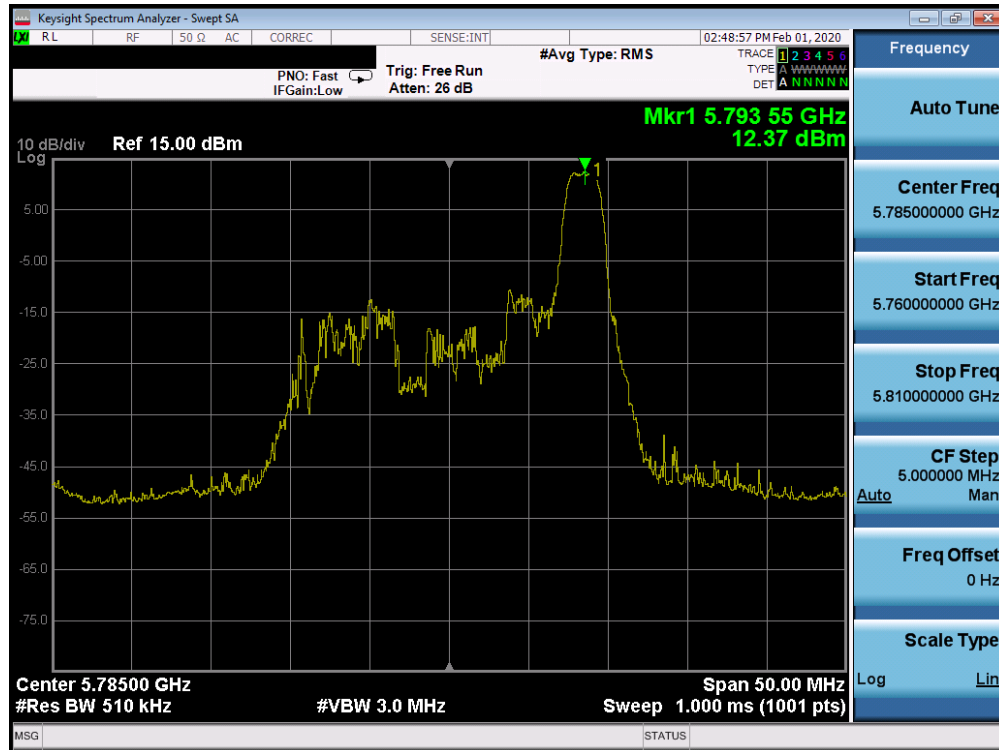


Plot 7-681. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11ax Index 4 – RU26 (UNII Band 3) – Ch. 157)

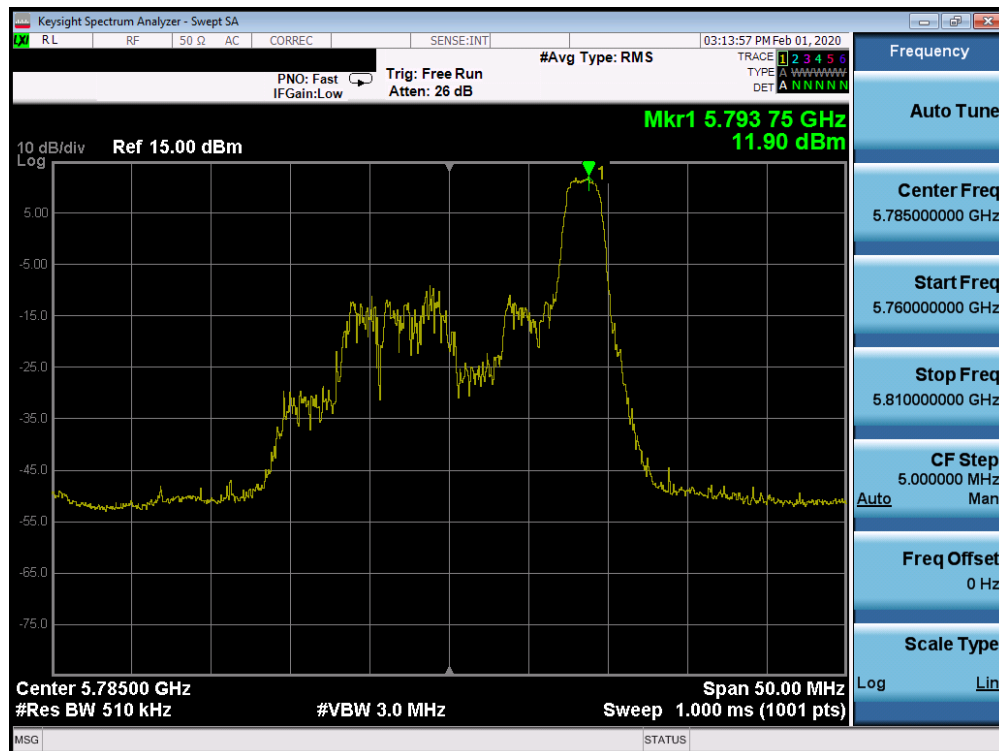


Plot 7-682. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11ax Index 4 – RU26 (UNII Band 3) – Ch. 157)

FCC ID: BCGA2229	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 396 of 563

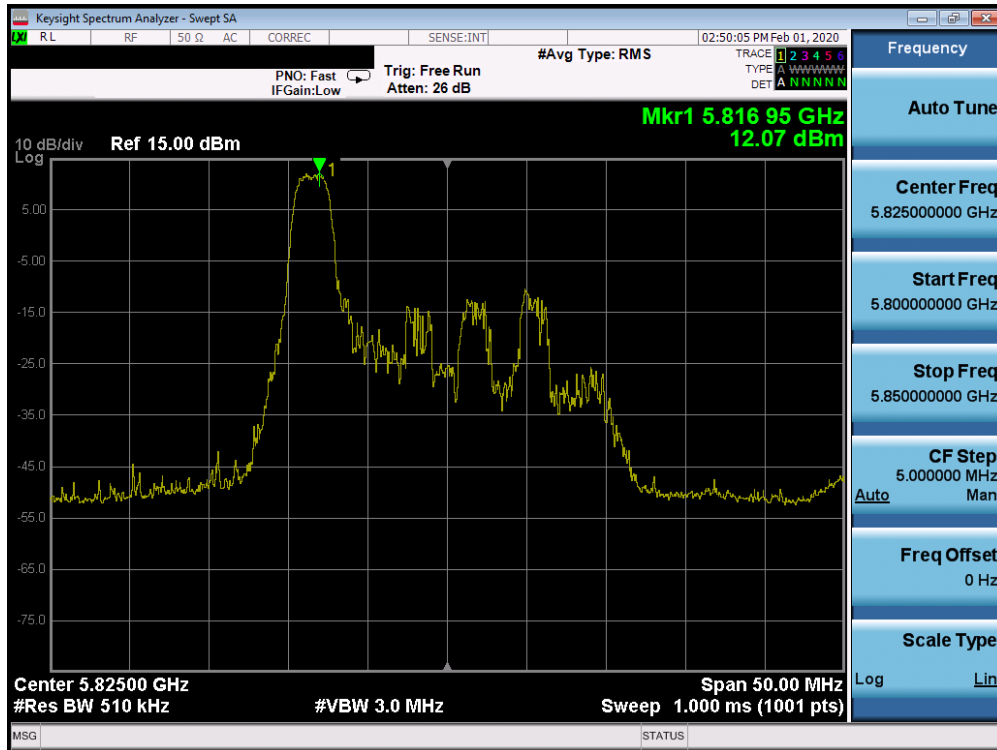


Plot 7-683. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11ax Index 8– RU26 (UNII Band 3) – Ch. 157)



Plot 7-684. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11ax Index 8– RU26 (UNII Band 3) – Ch. 157)

FCC ID: BCGA2229	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 397 of 563

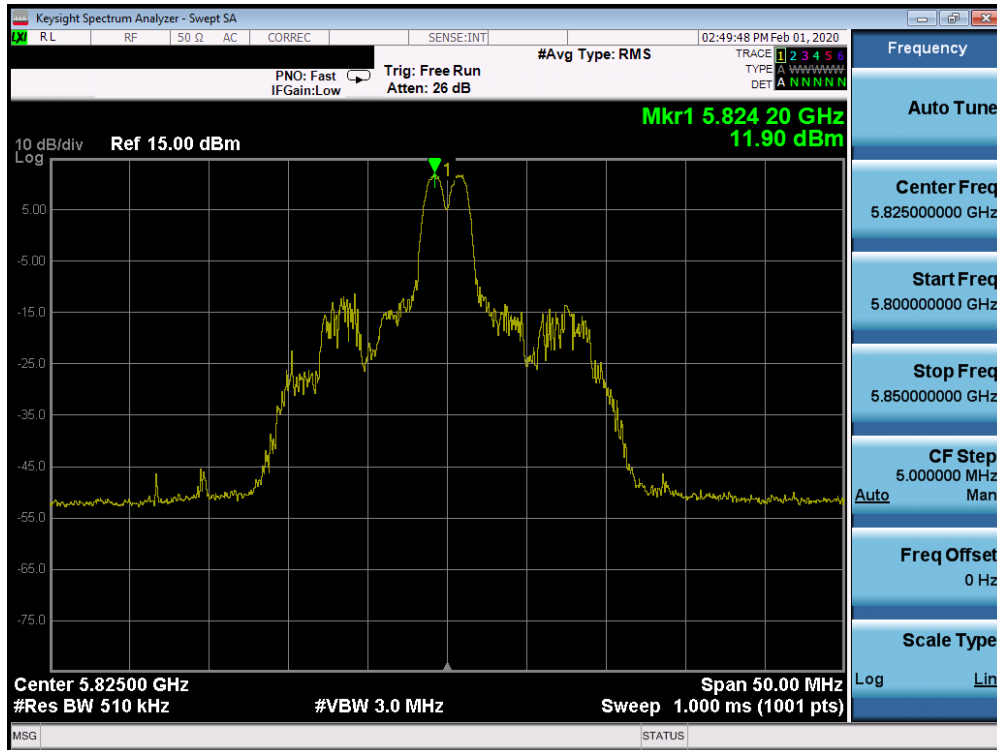


Plot 7-685. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11ax Index 0 – RU26 (UNII Band 3) – Ch. 165)

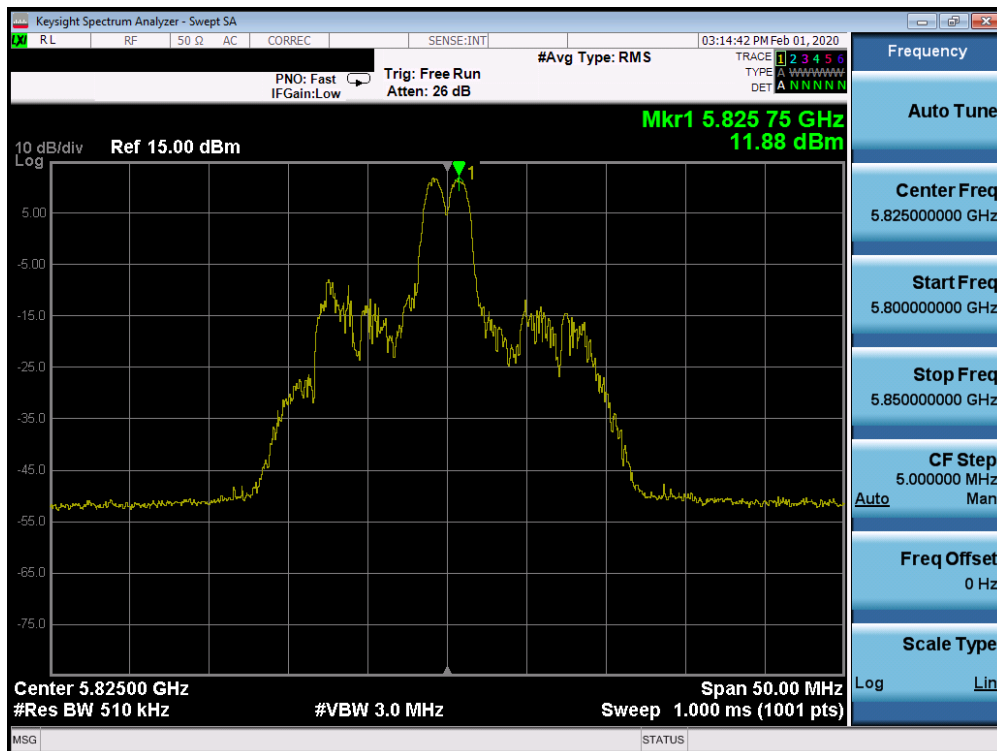


Plot 7-686. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11ax Index 0 – RU26 (UNII Band 3) – Ch. 165)

FCC ID: BCGA2229	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 398 of 563



Plot 7-687. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11ax Index 4 – RU26 (UNII Band 3) – Ch. 165)

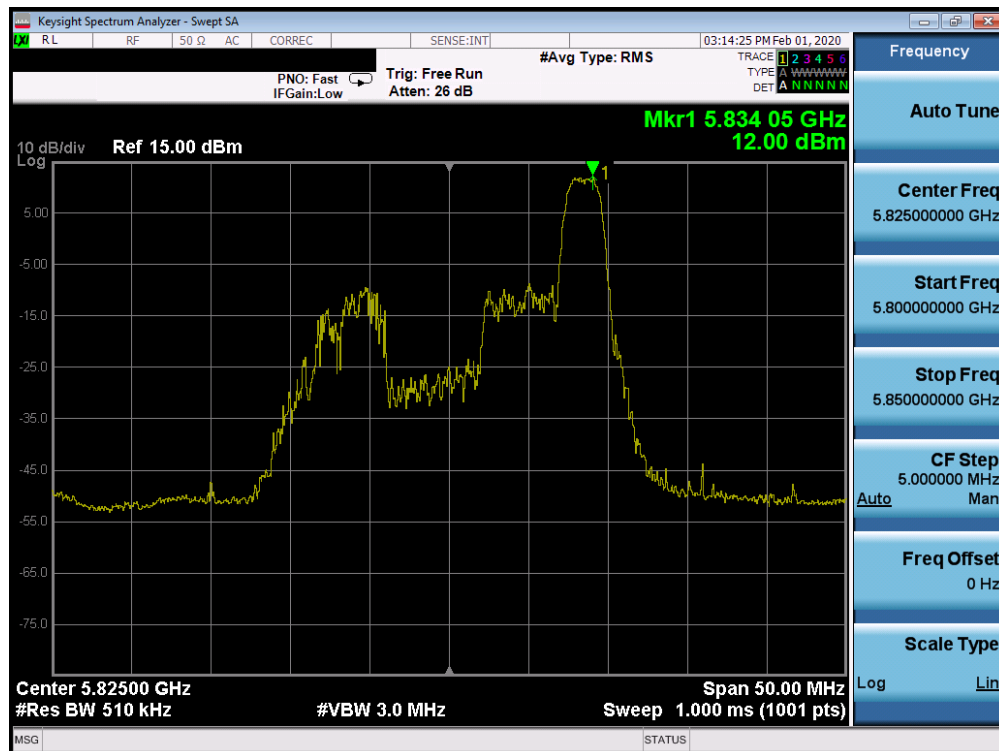


Plot 7-688. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11ax Index 4 – RU26 (UNII Band 3) – Ch. 165)

FCC ID: BCGA2229	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 399 of 563

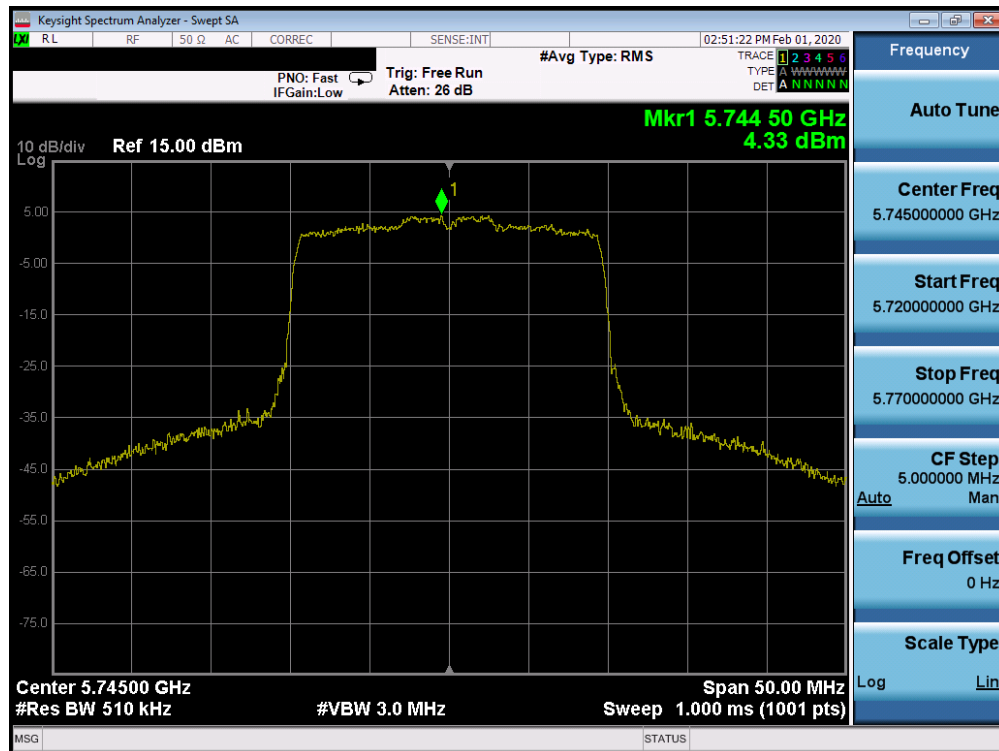


Plot 7-689. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11ax Index 8 – RU26 (UNII Band 3) – Ch. 165)

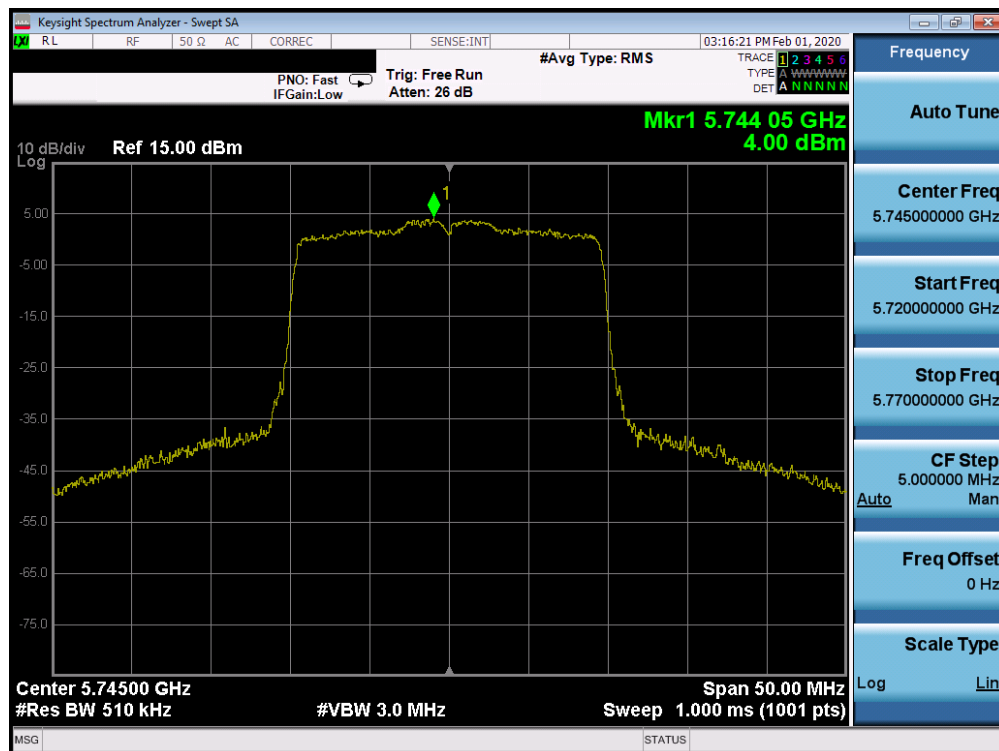


Plot 7-690. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11ax Index 8 – RU26 (UNII Band 3) – Ch. 165)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 400 of 563

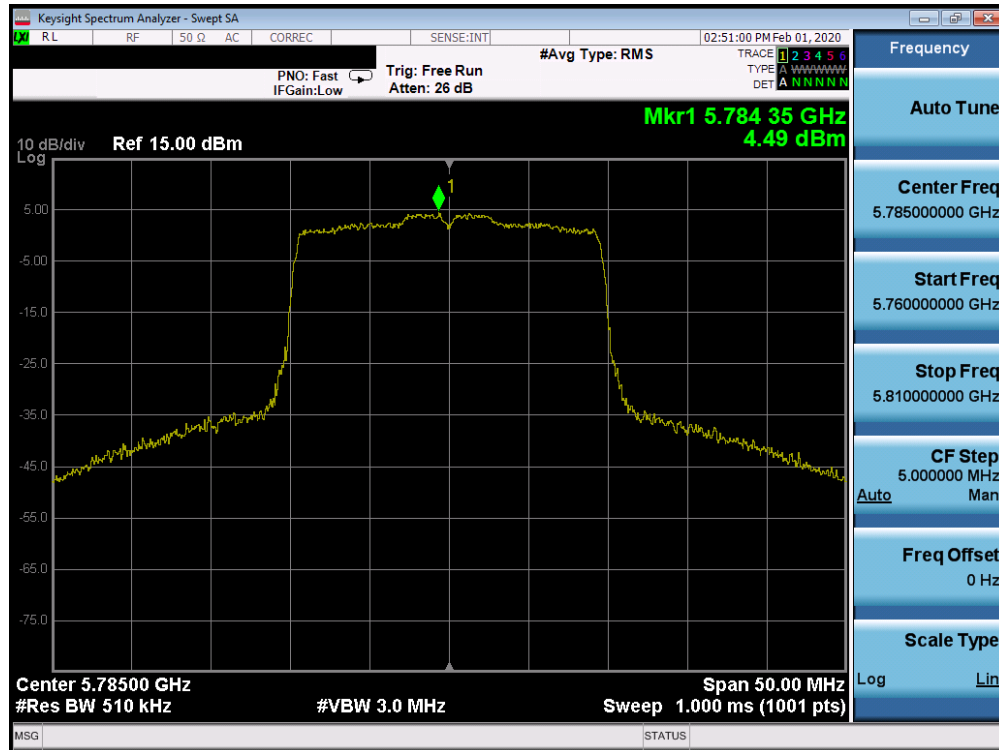


Plot 7-691. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11ax– RU242 (UNII Band 3) – Ch. 149)

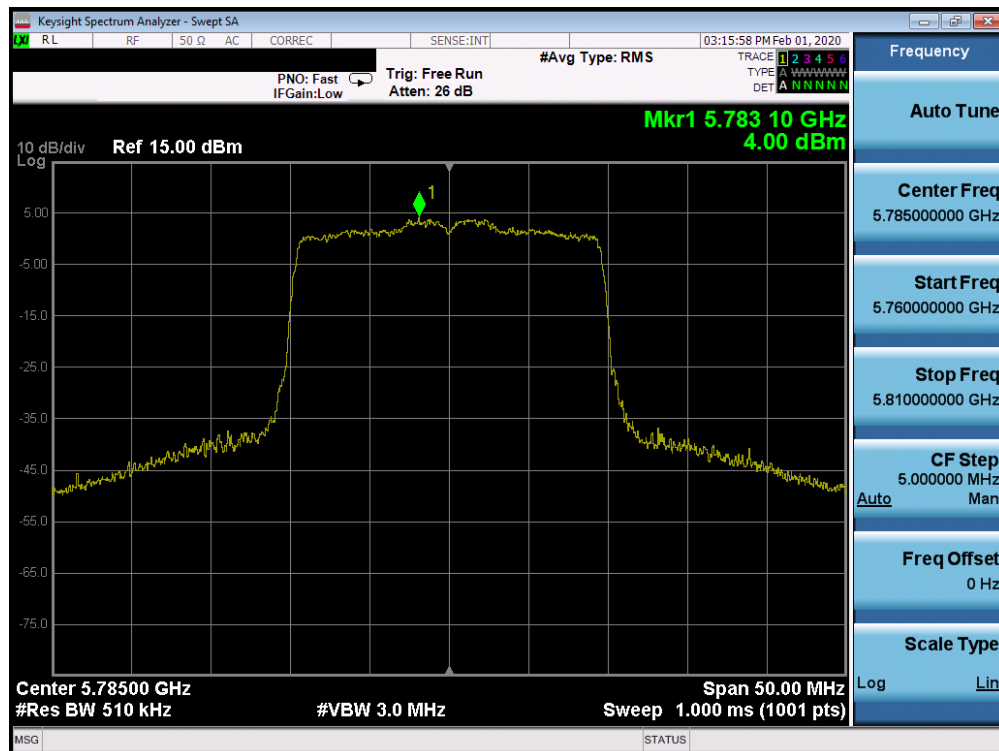


Plot 7-692. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11ax– RU242 (UNII Band 3) – Ch. 149)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 401 of 563

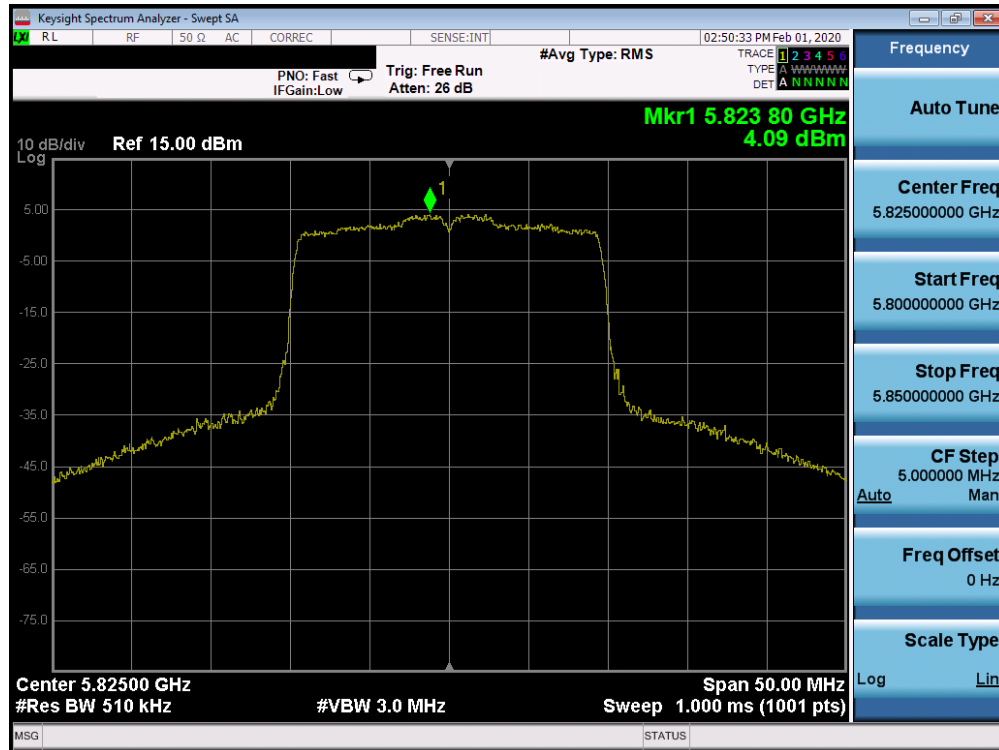


Plot 7-693. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11ax– RU242 (UNII Band 3) – Ch. 157)

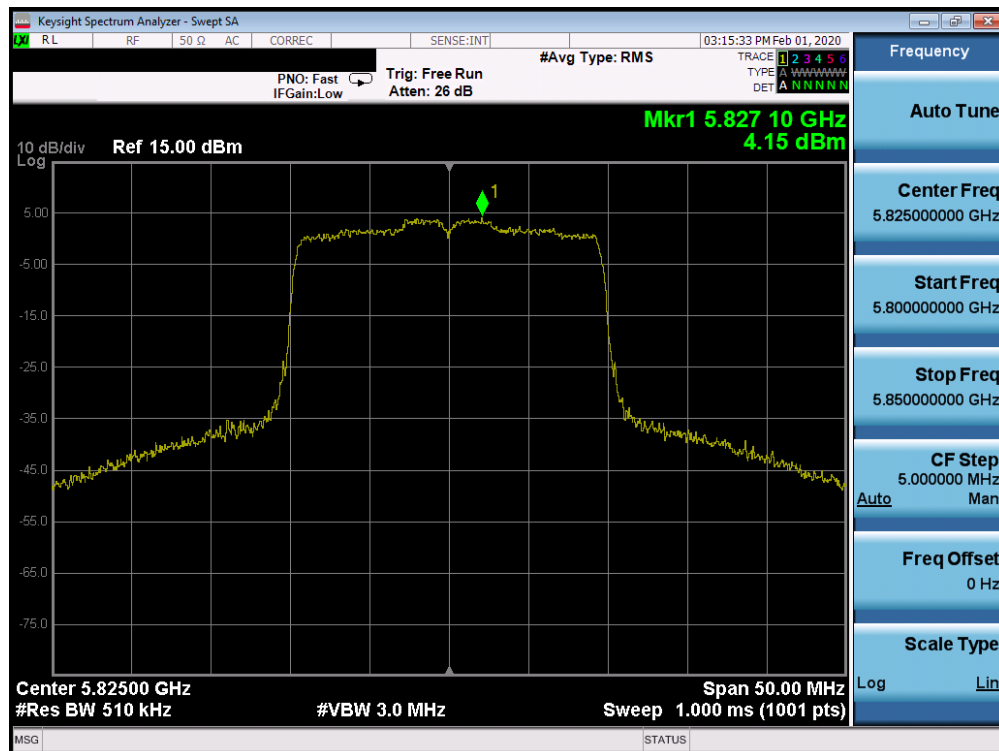


Plot 7-694. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11ax– RU242 (UNII Band 3) – Ch. 157)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 402 of 563



Plot 7-695. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11ax- RU242 (UNII Band 3) – Ch. 165)

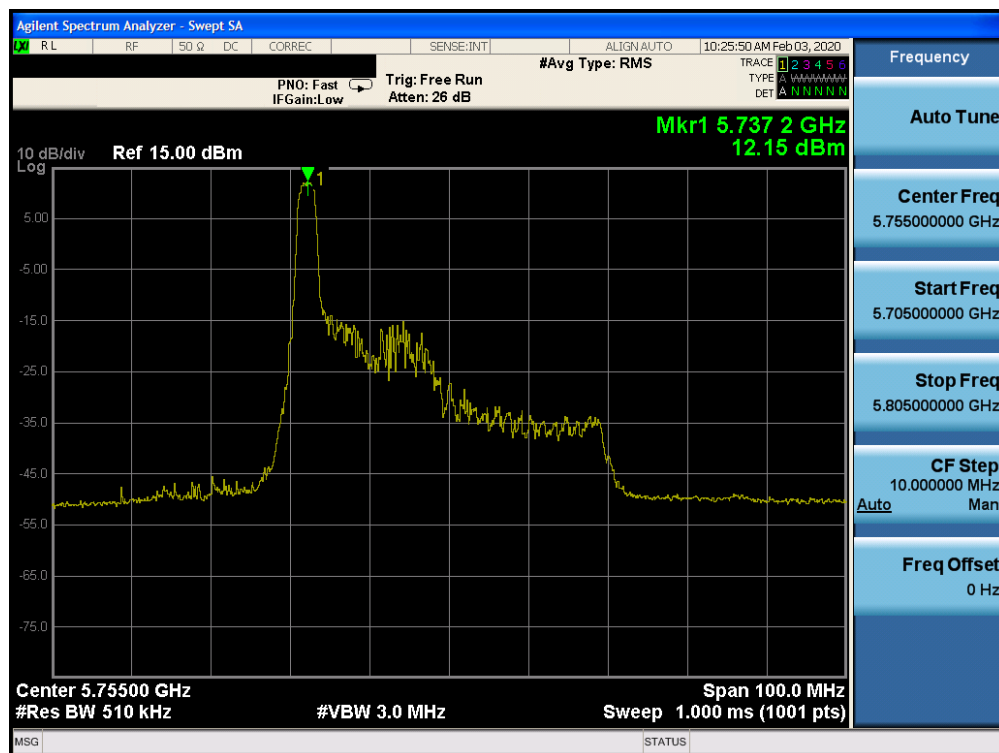


Plot 7-696. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11ax- RU242 (UNII Band 3) – Ch. 165)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 403 of 563

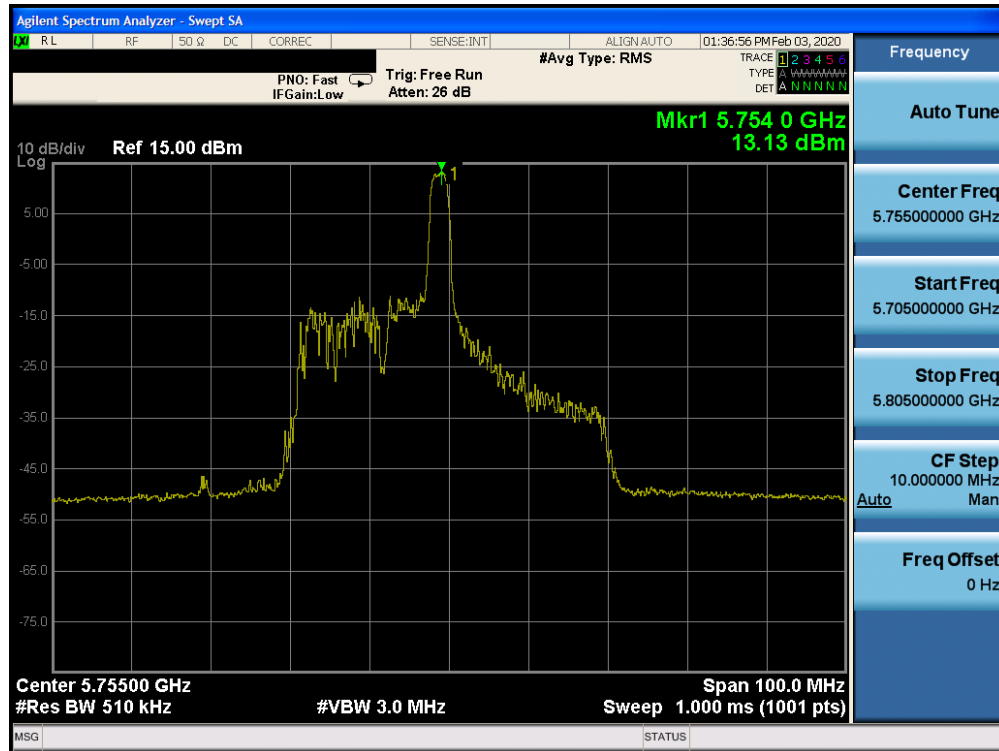


Plot 7-697. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11ax Index 0 – RU26 (UNII Band 3) – Ch. 151)

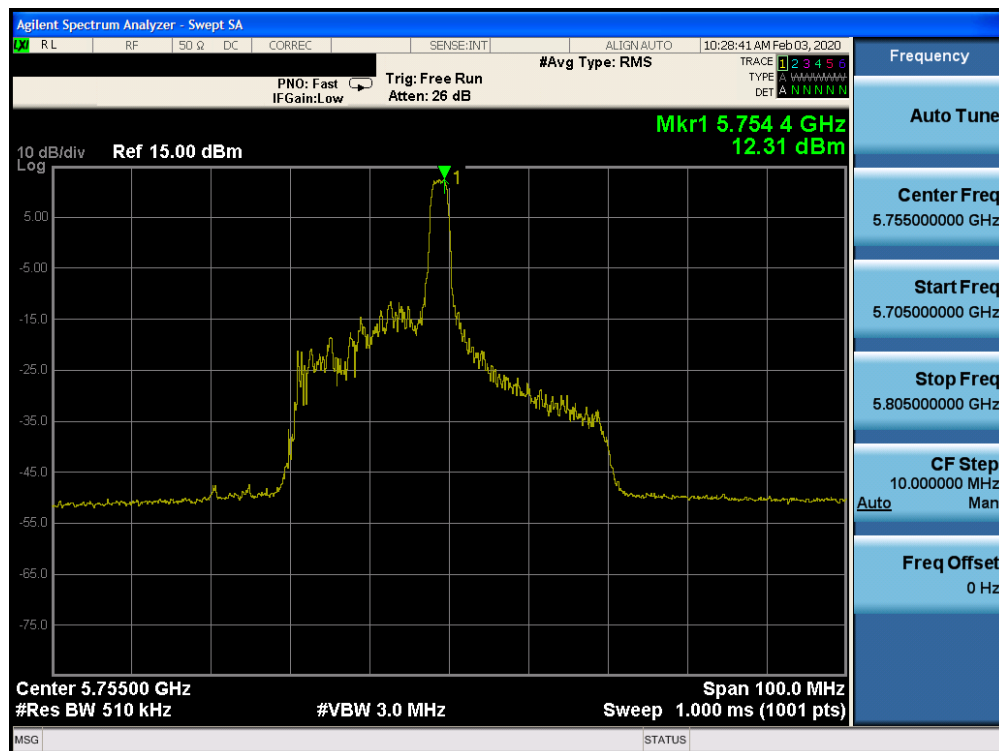


Plot 7-698. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11ax Index 0 – RU26 (UNII Band 3) – Ch. 151)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 404 of 563

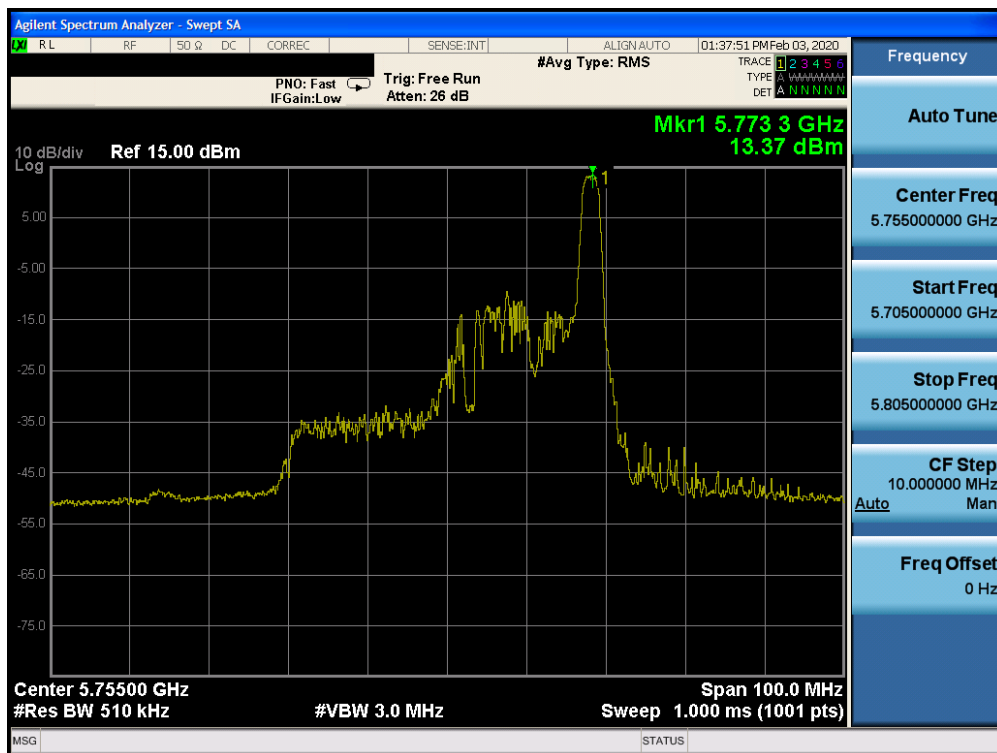


Plot 7-699. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11ax Index 8 – RU26 (UNII Band 3) – Ch. 151)

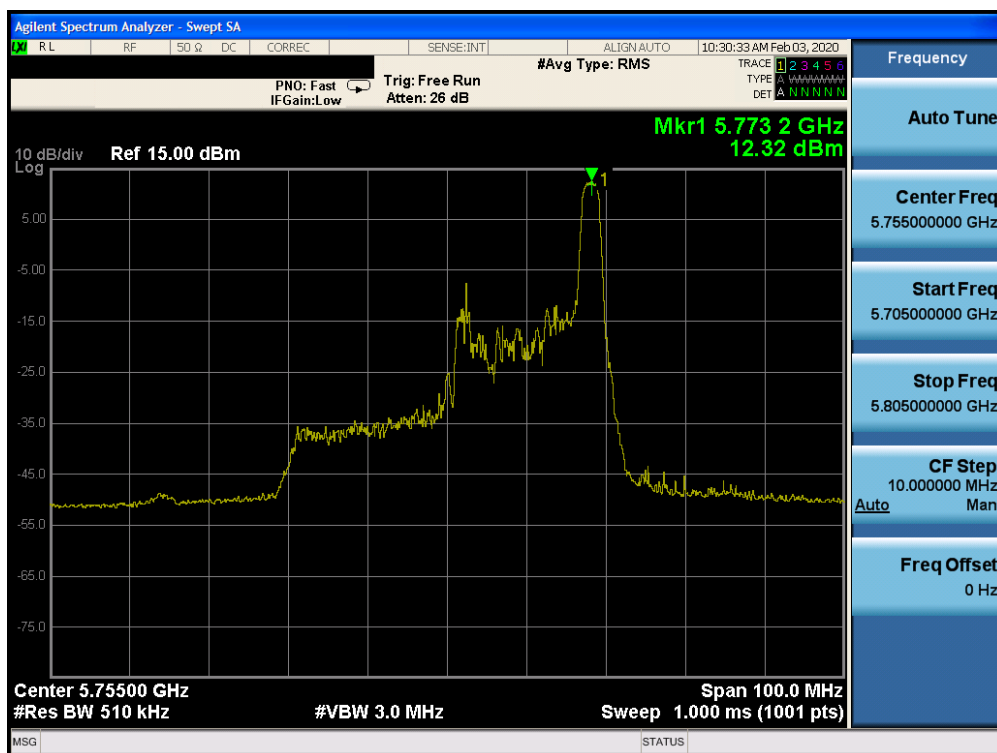


Plot 7-700. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11ax Index 8 – RU26 (UNII Band 3) – Ch. 151)

FCC ID: BCGA2229	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 405 of 563

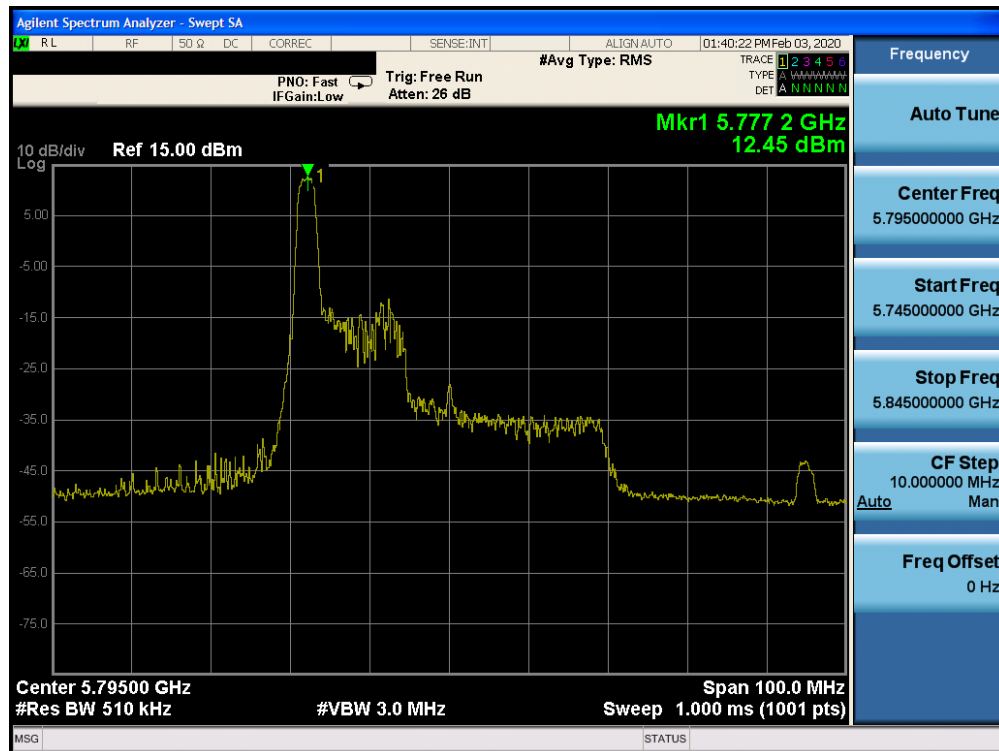


Plot 7-701. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11ax Index 17 – RU26 (UNII Band 3) – Ch. 151)

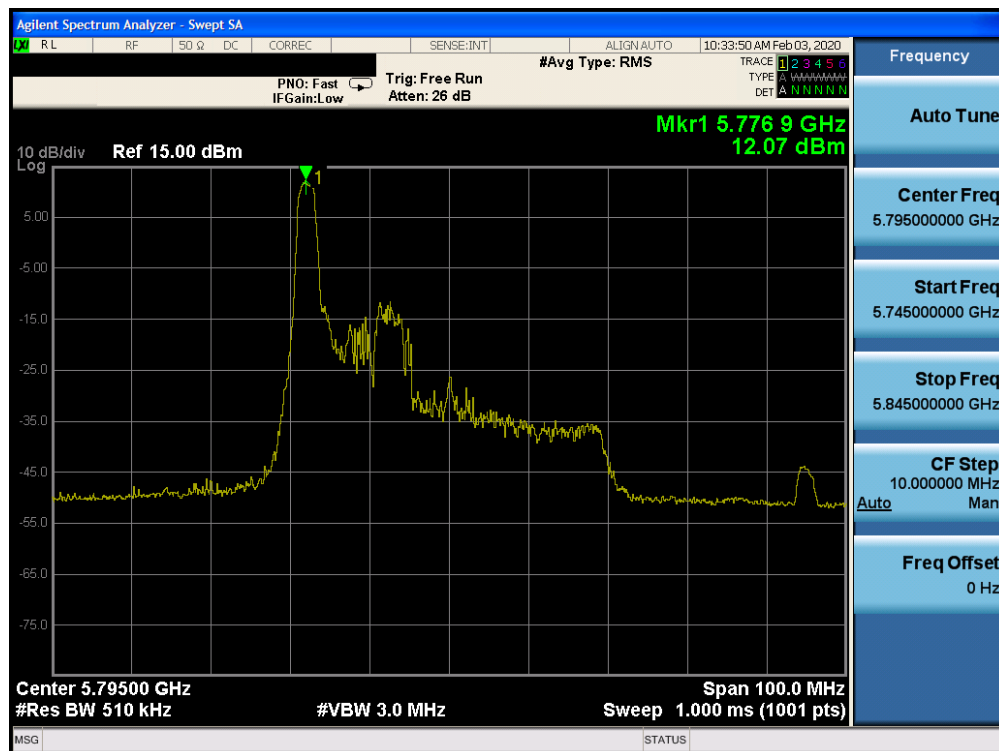


Plot 7-702. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11ax Index 17 – RU26 (UNII Band 3) – Ch. 151)

FCC ID: BCGA2229	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 406 of 563

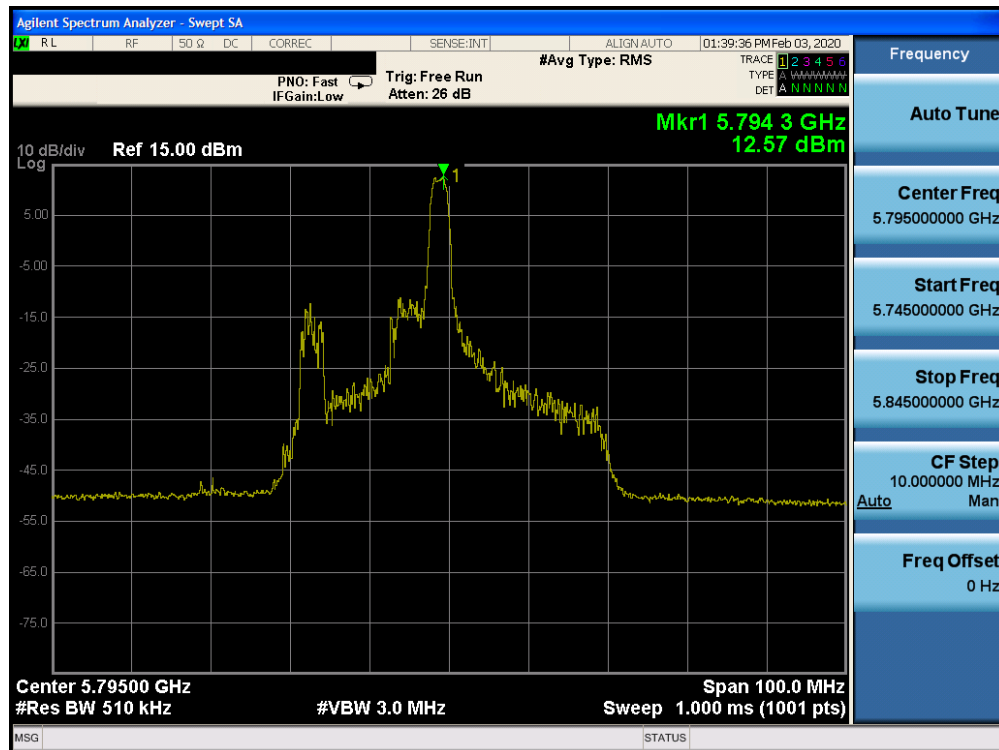


Plot 7-703. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11ax Index 0 – RU26 (UNII Band 3) – Ch. 159)

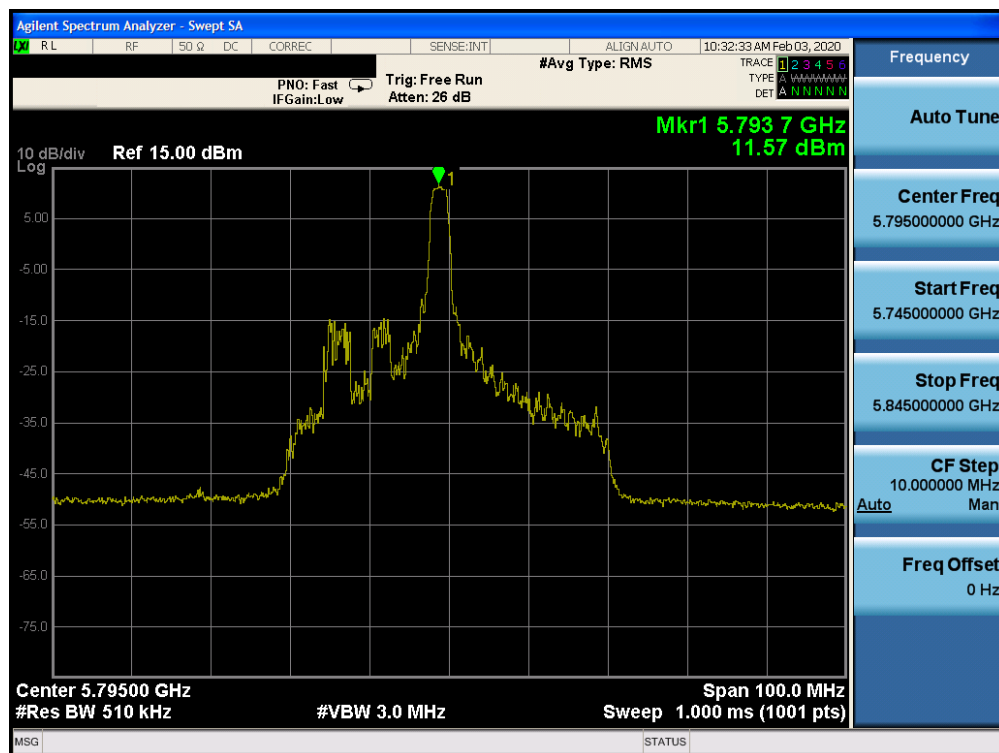


Plot 7-704. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11ax Index 0 – RU26 (UNII Band 3) – Ch. 159)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 407 of 563

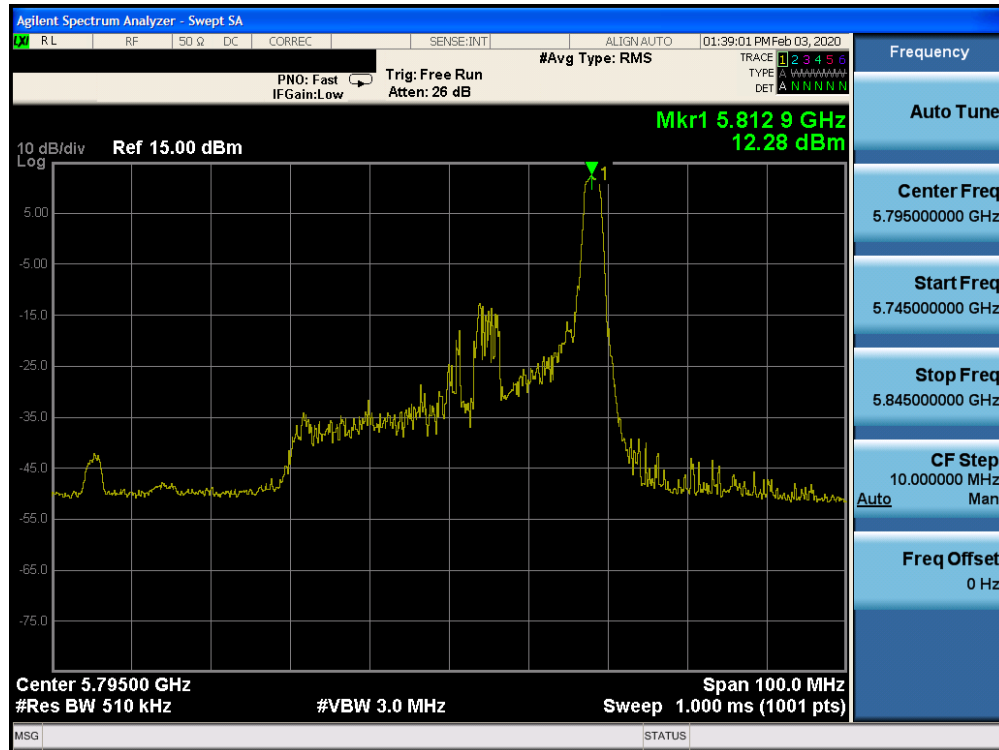


Plot 7-705. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11ax Index 8 – RU26 (UNII Band 3) – Ch. 159)

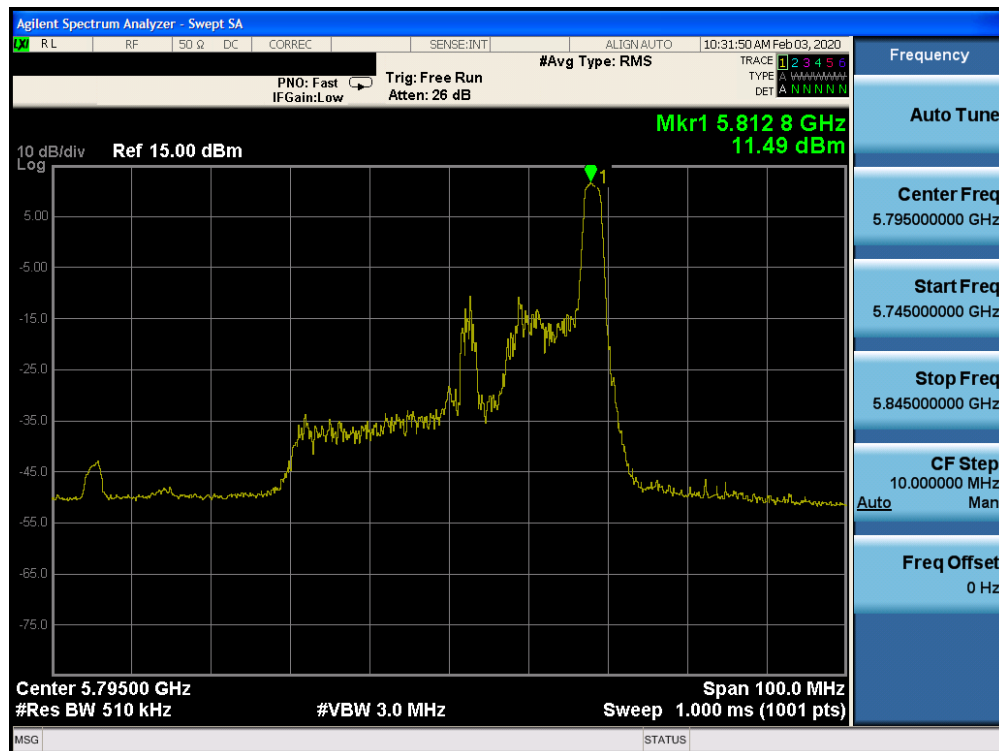


Plot 7-706. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11ax Index 8 – RU26 (UNII Band 3) – Ch. 159)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 408 of 563

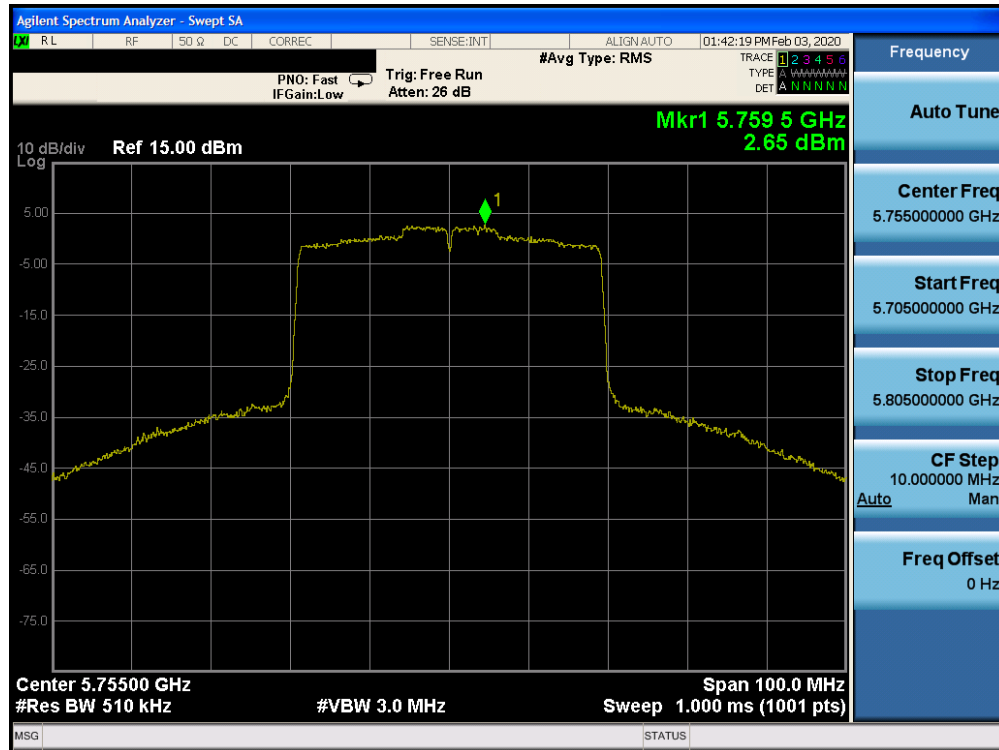


Plot 7-707. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11ax Index 17 – RU26 (UNII Band 3) – Ch. 159)

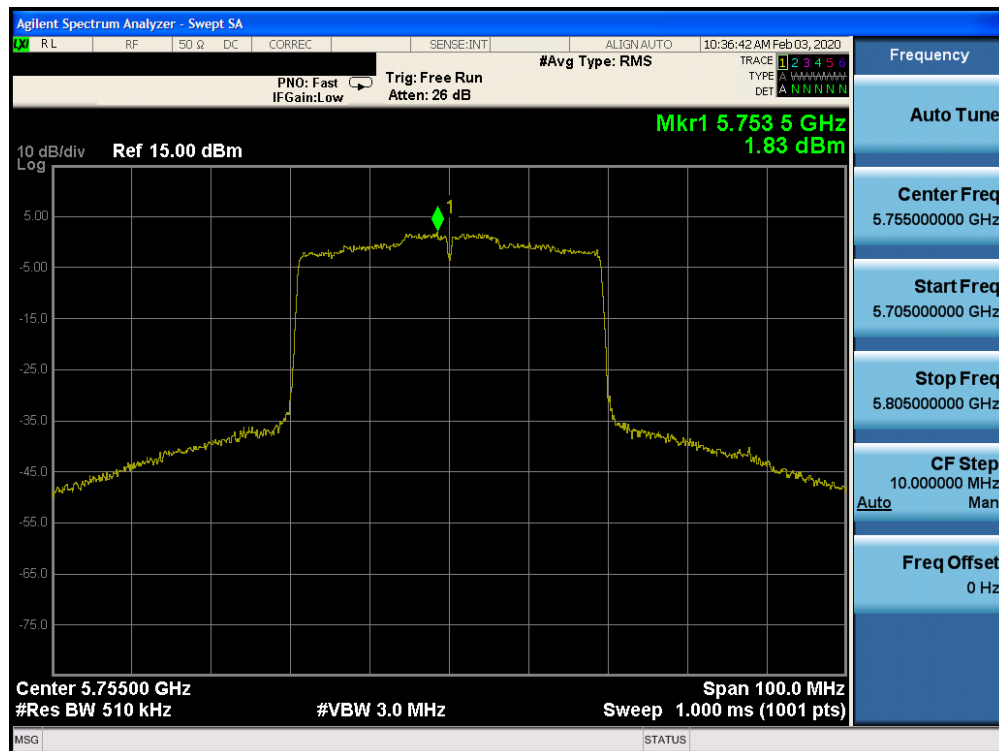


Plot 7-708. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11ax Index 17 – RU26 (UNII Band 3) – Ch. 159)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 409 of 563

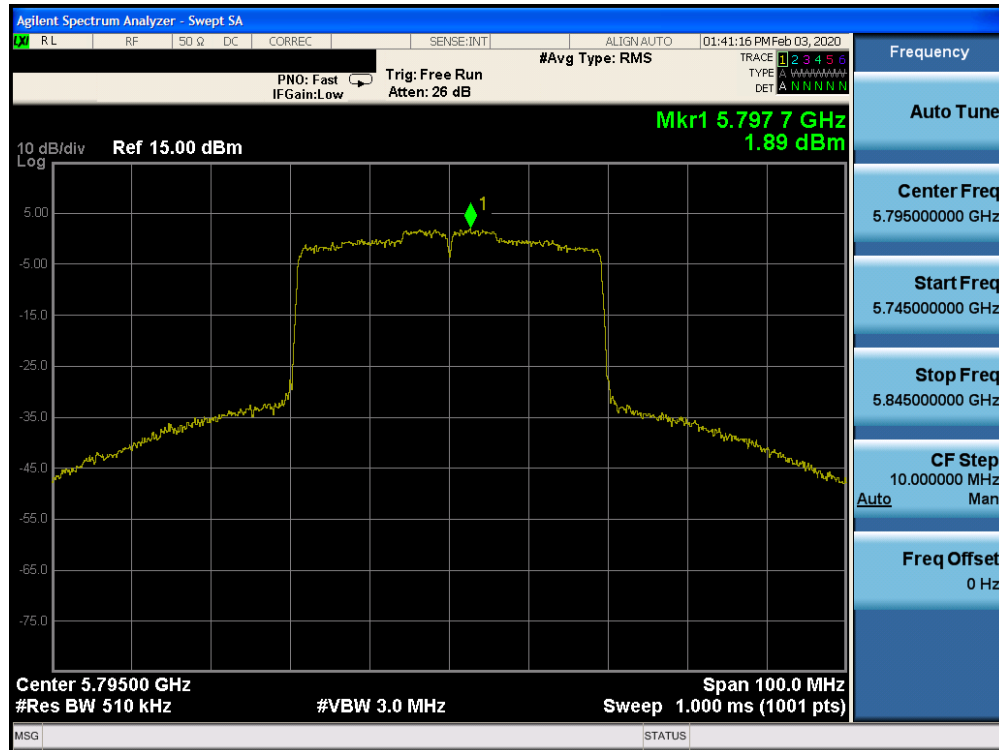


Plot 7-709. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11ax – RU484 (UNII Band 3) – Ch. 151)

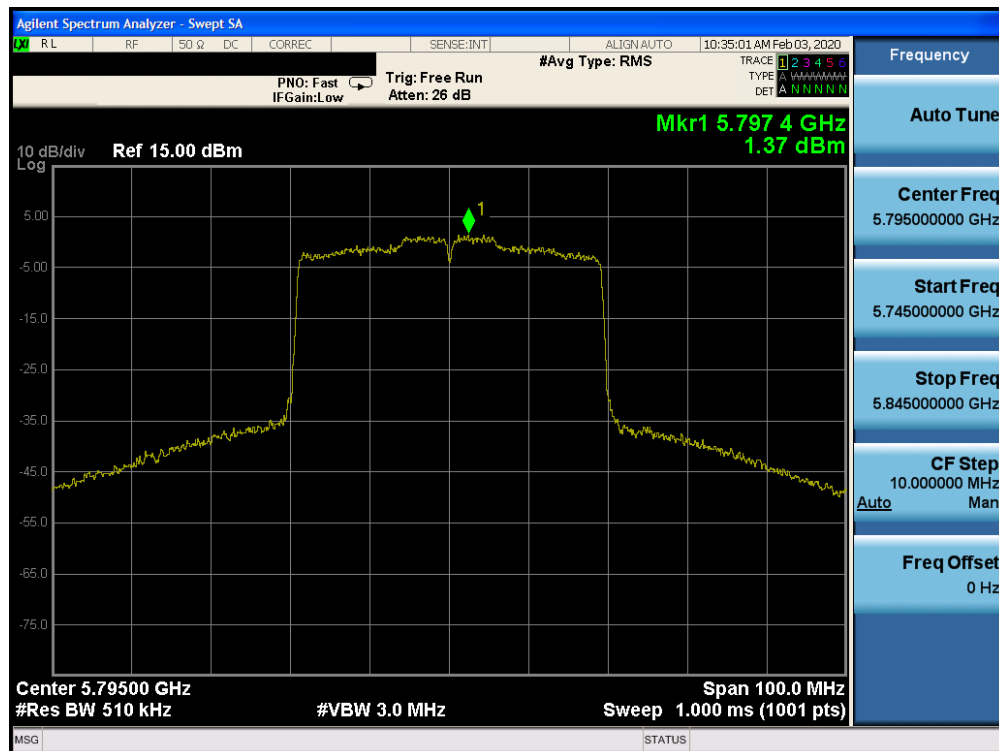


Plot 7-710. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11ax – RU484 (UNII Band 3) – Ch. 151)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 410 of 563

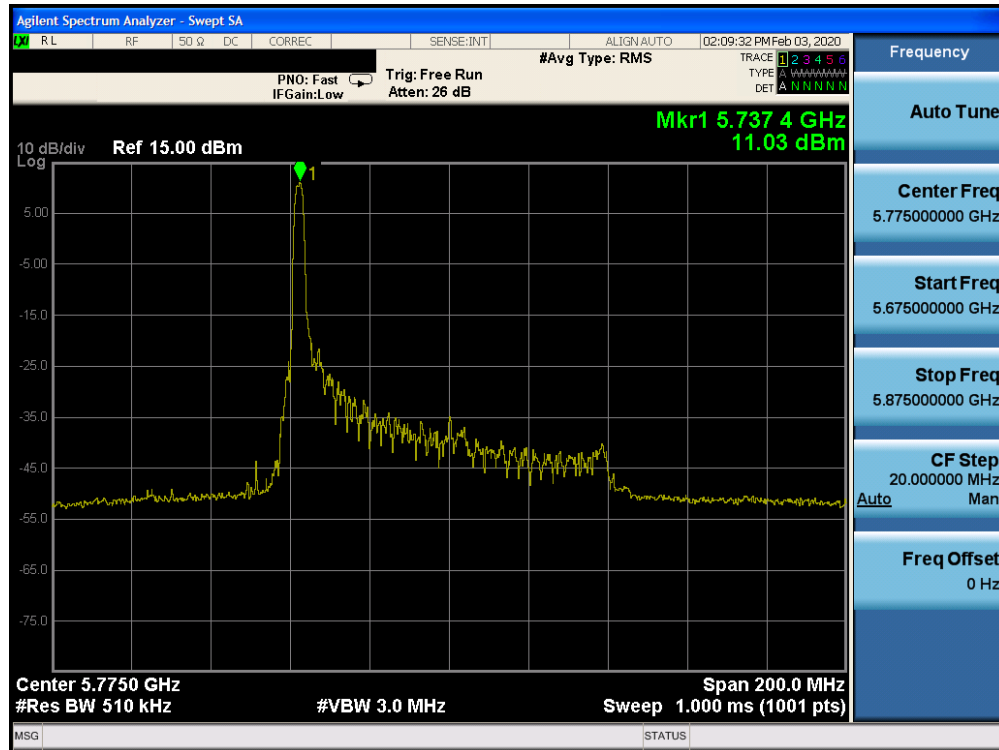


Plot 7-711. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11ax – RU484 (UNII Band 3) – Ch. 159)

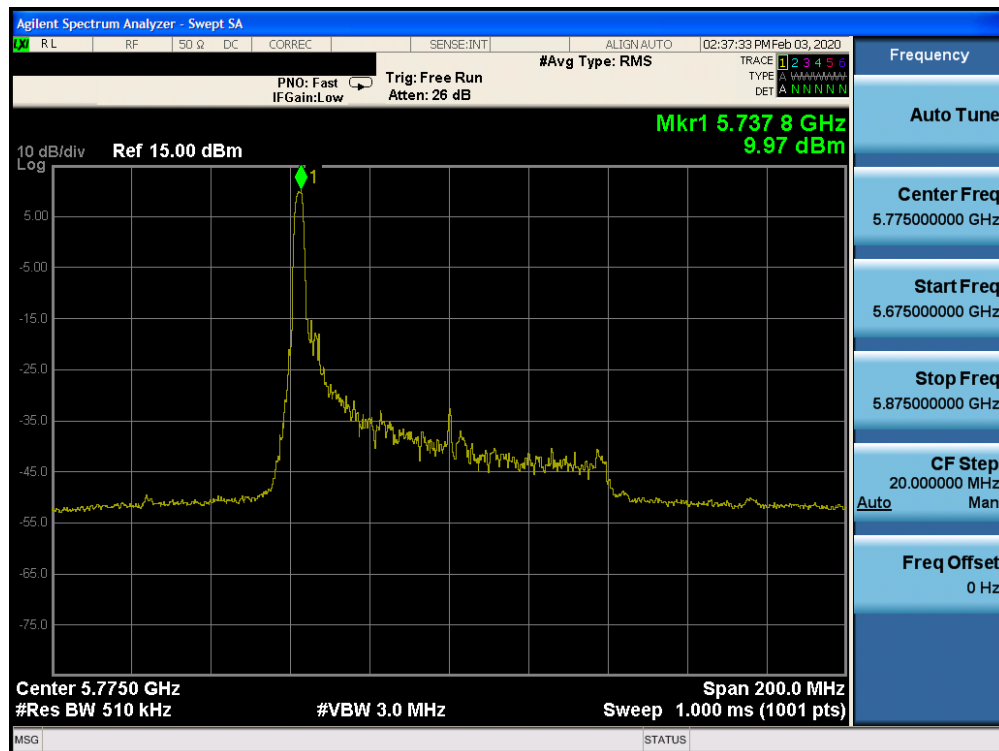


Plot 7-712. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11ax – RU484 (UNII Band 3) – Ch. 159)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 411 of 563



Plot 7-713. Power Spectral Density Plot CDD CORE 0 (80MHz BW 802.11ax Index 0 – RU26 (UNII Band 3) – Ch. 155)



Plot 7-714. Power Spectral Density Plot CDD CORE 1 (80MHz BW 802.11ax Index 0 – RU26 (UNII Band 3) – Ch. 155)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 412 of 563

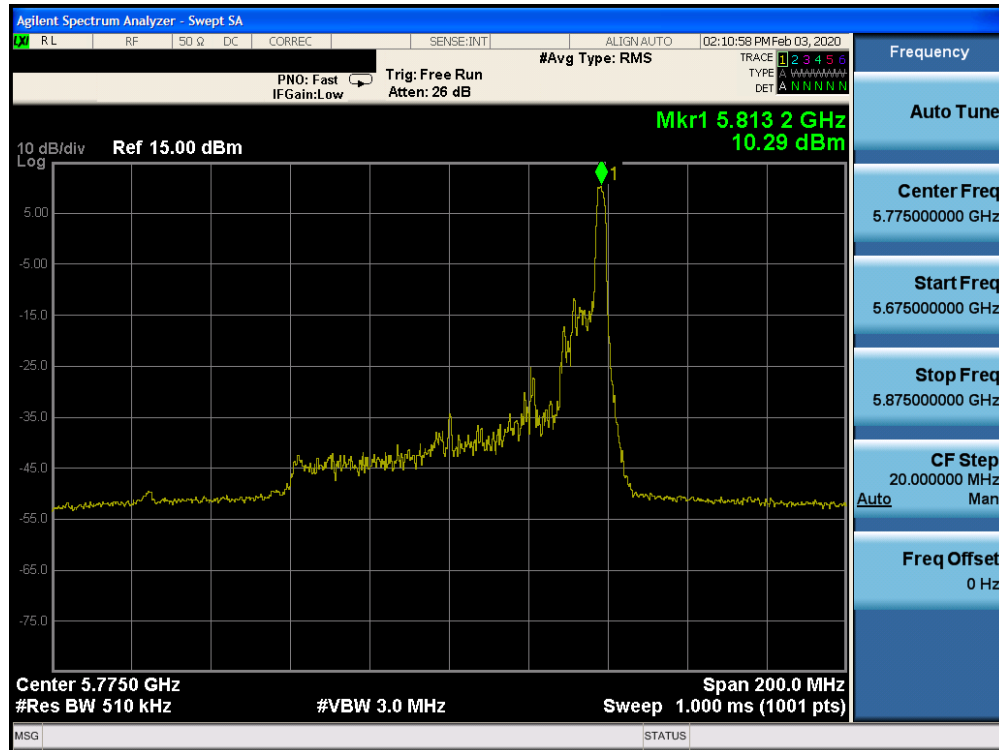


Plot 7-715. Power Spectral Density Plot CDD CORE 0 (80MHz BW 802.11ax Index 18 – RU26 (UNII Band 3) – Ch. 155)

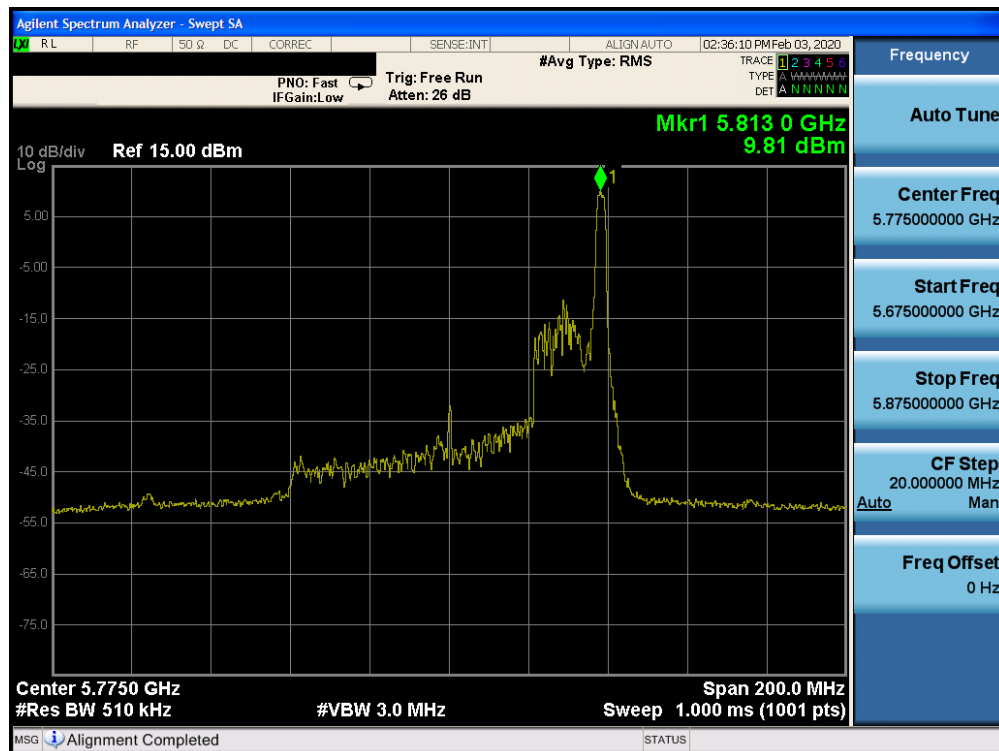


Plot 7-716. Power Spectral Density Plot CDD CORE 1 (80MHz BW 802.11ax Index 18 – RU26 (UNII Band 3) – Ch. 155)

FCC ID: BCGA2229	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 413 of 563

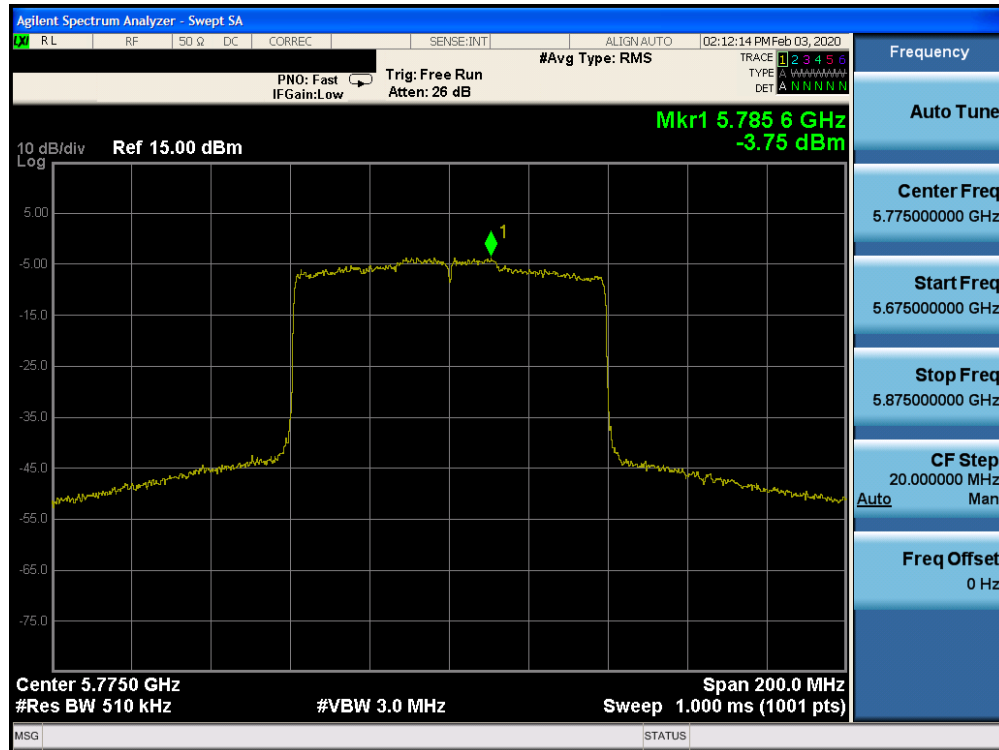


Plot 7-717. Power Spectral Density Plot CDD CORE 0 (80MHz BW 802.11ax Index 36 – RU26 (UNII Band 3) – Ch. 155)

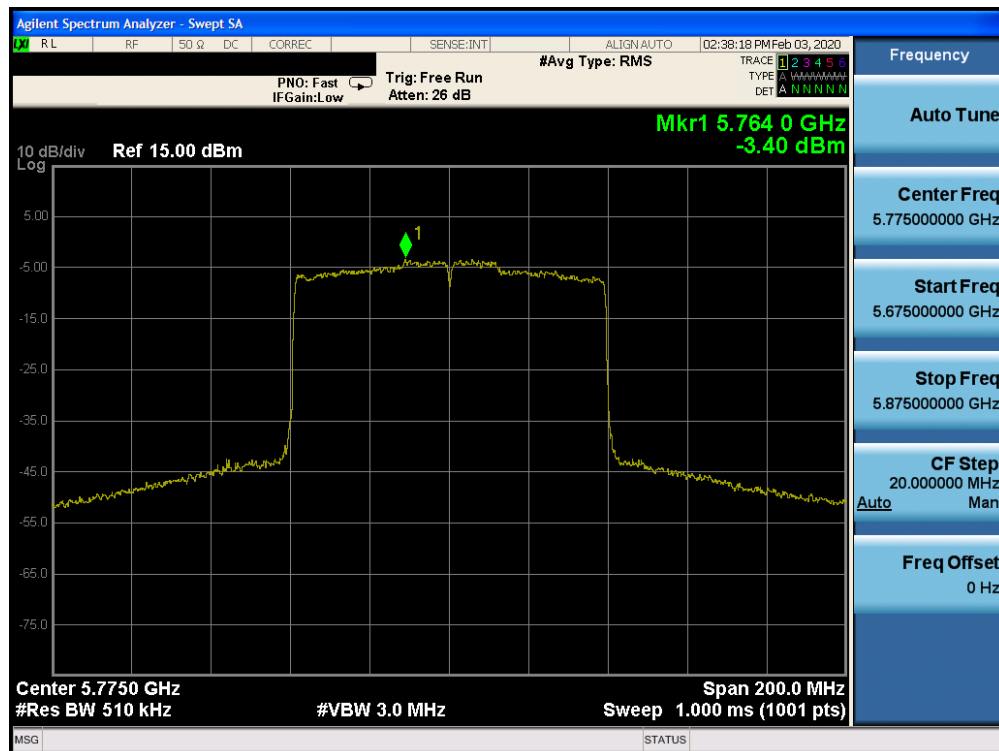


Plot 7-718. Power Spectral Density Plot CDD CORE 1 (80MHz BW 802.11ax Index 36 – RU26 (UNII Band 3) – Ch. 155)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 414 of 563



Plot 7-719. Power Spectral Density Plot CDD CORE 0 (80MHz BW 802.11ax – RU996 (UNII Band 3) – Ch. 155)



Plot 7-720. Power Spectral Density Plot CDD CORE 1 (80MHz BW 802.11ax – RU996 (UNII Band 3) – Ch. 155)

FCC ID: BCGA2229		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1912170053-09-R1.BCG	Test Dates: 12/10/2019 - 02/12/2020	EUT Type: Tablet Device	Page 415 of 563

**Note:**

Per ANSI C63.10-2013 Section 14.3.2.2 and KDB 662911 v02r01 Section E)2), the power spectral density at Antenna 1 and Antenna 2 were first measured separately with reduced Antenna 1 and Antenna 2 powers per manufacture's tune-up document. The measured values were then summed in linear power units then converted back to dBm.

Sample Directional Gain Calculation:

Assuming the antenna gain is -8.61 dBi for Antenna-1 and -7.68 dBi for Antenna-2.

$$\begin{aligned}\text{Directional gain} &= 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{\text{ANT}}] \text{ dBi} \\ &= 10 \log[(10^{-8.61/20} + 10^{-7.68/20} / 2] \text{ dBi} \\ &= (-5.12) \text{ dBi}\end{aligned}$$

Sample CDD Calculation:

Assuming the average conducted power spectral density was measured to be 5.88 dBm for Antenna-1 and 6.27 dBm for Antenna-2.

$$\text{Antenna 1} + \text{Antenna 2} = \text{CDD}$$

$$(5.88 \text{ dBm} + 6.27 \text{ dBm}) = (3.87 \text{ mW} + 4.24 \text{ mW}) = 8.11 \text{ mW} = 9.09 \text{ dBm}$$

Sample e.i.r.p Power Spectral Density Calculation:

Assuming the average CDD power density was calculated to be 9.09 dBm with directional gain of -5.12 dBi.

$$\text{e.i.r.p. Power Spectral Density(dBm)} = \text{Power Spectral Density (dBm)} + \text{directional gain (dBi)}$$

$$9.09 \text{ dBm} + (-5.12) \text{ dBi} = 3.97 \text{ dBm}$$

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7.6 Radiated Spurious Emission Measurements – Above 1GHz

§15.407(b) §15.205 §15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels, modes (e.g. RU26, 52 Tones, RU106, RU242, RU484 and RU996), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

For transmitters operating in the 5.15-5.25 GHz and 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-82 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [$\mu\text{V/m}$]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-82. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Sections 12.7.7.2, 12.7.6, 12.7.5
KDB 789033 D02 v02r01 – Section G

Test Settings

Average Measurements above 1GHz (Method AD)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)
6. Averaging type = power (RMS)
7. Sweep time = auto couple
8. Trace was averaged over 100 sweeps

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Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = 120kHz
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

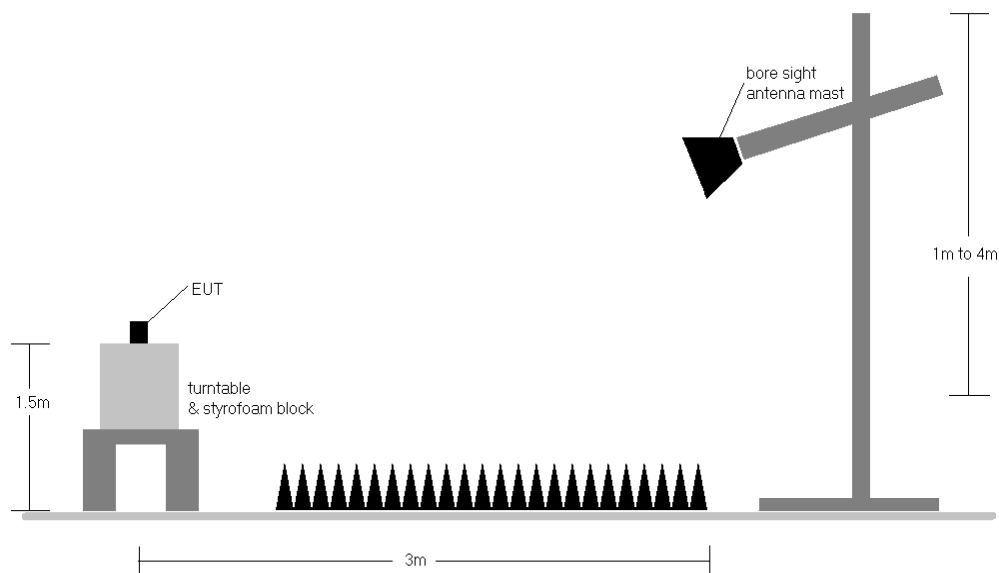


Figure 7-5. Test Instrument & Measurement Setup

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Test Notes

1. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-82.
2. All spurious emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-82. All spurious emissions that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
6. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
8. The “-” shown in the following RSE tables are used to denote a noise floor measurement.
9. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all of the partially-loaded RU configurations. Among all of the available partially-loaded RU configurations, only the configuration with the worst case emissions is reported.
10. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all of the partially-loaded RU configurations. Among all of the available partially-loaded RU configurations, only the configuration with the worst case emissions is reported.

Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level [dBμV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level [dBμV/m] – Limit [dBμV/m]

Radiated Band Edge Measurement Offset

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- The amplitude offset shown in the radiated restricted band edge plots in Section 7.6 was calculated using the formula:

$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

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