



Plot 7-492. In-Band Emission Plot MIMO ANT1 160MHz BW 802.11ax (Full Tone) (UNII Band 5) - Ch. 47) - LPI/SP



Plot 7-493. In-Band Emission Plot MIMO ANT1 (160MHz BW 802.11ax (Full Tone) (UNII Band 5) - Ch. 79) - LPI/SP

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Plot 7-494. In-Band Emission Plot MIMO ANT1 (20MHz BW 802.11ax (Full Tone) (UNII Band 6) - Ch. 97) - LPI



Plot 7-495. In-Band Emission Plot MIMO ANT1 (20MHz BW 802.11ax (Full Tone) (UNII Band 6) - Ch. 105) - LPI

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Plot 7-496. In-Band Emission Plot MIMO ANT1 (20MHz BW 802.11ax (Full Tone) (UNII Band 6) - Ch. 113) - LPI



Plot 7-497. In-Band Emission Plot MIMO ANT1 (40MHz BW 802.11ax (Full Tone) (UNII Band 6) - Ch. 99) - LPI

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Plot 7-498. In-Band Emission Plot MIMO ANT1 (40MHz BW 802.11ax (Full Tone) (UNII Band 6) - Ch. 107) - LPI



Plot 7-499. In-Band Emission Plot MIMO ANT1 (40MHz BW 802.11ax (Full Tone) (UNII Band 6) - Ch. 115) - LPI

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Plot 7-500. In-Band Emission Plot MIMO ANT1 (80MHz BW 802.11ax (Full Tone) (UNII Band 6) - Ch. 103) - LPI



Plot 7-501. In-Band Emission Plot MIMO ANT1 (160MHz BW 802.11ax (Full Tone) (UNII Band 6) - Ch. 111) - LPI

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Plot 7-502. In-Band Emission Plot MIMO ANT1 (20MHz BW 802.11ax (Full Tone) (UNII Band 7) - Ch. 117) - LPI/SP



Plot 7-503. In-Band Emission Plot MIMO ANT1 (20MHz BW 802.11ax (Full Tone) (UNII Band 7) - Ch. 149) - LPI/SP

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Plot 7-504. In-Band Emission Plot MIMO ANT1 (20MHz BW 802.11ax (Full Tone) (UNII Band 7) - Ch. 185) - LPI/SP



Plot 7-505. In-Band Emission Plot MIMO ANT1 (40MHz BW 802.11ax (Full Tone) (UNII Band 7) - Ch. 123) - LPI/SP

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Plot 7-506. In-Band Emission Plot MIMO ANT1 (40MHz BW 802.11ax (Full Tone) (UNII Band 7) - Ch. 155) - LPI/SP



Plot 7-507. In-Band Emission Plot MIMO ANT1 (40MHz BW 802.11ax (Full Tone) (UNII Band 7) - Ch. 179) - LPI/SP

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Plot 7-508. In-Band Emission Plot MIMO ANT1 (80MHz BW 802.11ax (Full Tone) (UNII Band 7) - Ch. 119) - LPI/SP



Plot 7-509. In-Band Emission Plot MIMO ANT1 (80MHz BW 802.11ax (Full Tone) (UNII Band 7) - Ch. 151) - LPI/SP

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Plot 7-510. In-Band Emission Plot MIMO ANT1 (80MHz BW 802.11ax (Full Tone) (UNII Band 7) - Ch. 183) - LPI/SP



Plot 7-511. In-Band Emission Plot MIMO ANT1 (160MHz BW 802.11ax (Full Tone) (UNII Band 7) - Ch. 143) - LPI/SP

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Plot 7-512. In-Band Emission Plot MIMO ANT1 (160MHz BW 802.11ax (Full Tone) (UNII Band 7) - Ch. 175) - LPI/SP



Plot 7-513. In-Band Emission Plot MIMO ANT1 (20MHz BW 802.11ax (Full Tone) (UNII Band 8) - Ch. 189) - LPI

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Plot 7-514. In-Band Emission Plot MIMO ANT1 (20MHz BW 802.11ax (Full Tone) (UNII Band 8) - Ch. 209) - LPI



Plot 7-515. In-Band Emission Plot MIMO ANT1 (20MHz BW 802.11ax (Full Tone) (UNII Band 8) - Ch. 233) - LPI

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Plot 7-516. In-Band Emission Plot MIMO ANT1 (40MHz BW 802.11ax (Full Tone) (UNII Band 8) - Ch. 187) - LPI



Plot 7-517. In-Band Emission Plot MIMO ANT1 (40MHz BW 802.11ax (Full Tone) (UNII Band 8) - Ch. 211) - LPI

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Plot 7-518. In-Band Emission Plot MIMO ANT1 (40MHz BW 802.11ax (Full Tone) (UNII Band 8) - Ch. 227) - LPI



Plot 7-519. In-Band Emission Plot MIMO ANT1 (80MHz BW 802.11ax (Full Tone) (UNII Band 8) - Ch. 199) - LPI

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Plot 7-520. In-Band Emission Plot MIMO ANT1 (80MHz BW 802.11ax (Full Tone) (UNII Band 8) - Ch. 215) - LPI



Plot 7-521. In-Band Emission Plot MIMO ANT1 (160MHz BW 802.11ax (Full Tone) (UNII Band 8) - Ch. 207) - LPI

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MIMO Antenna-1 In-Band Emission Measurements (Full Tones) -SP



Plot 7-522. In-Band Emission Plot MIMO ANT1 (20MHz BW 802.11ax (Full Tone) UNII Band 5) - Ch. 2 - SP



Plot 7-523. In-Band Emission Plot MIMO ANT1 (20MHz BW 802.11ax (Full Tone) (UNII Band 5) - Ch. 45) - SP

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Plot 7-524. In-Band Emission Plot MIMO ANT1 (20MHz BW 802.11ax (Full Tone) UNII Band 5) - Ch. 93) - SP

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MIMO Antenna-2 In-Band Emission Measurements (26 Tones) – LPI



Plot 7-525. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (26 Tones) UNII Band 5) - Ch. 2 - LPI



Plot 7-526. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 45) - LPI

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Plot 7-527. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (26 Tones) UNII Band 5) - Ch. 93) - LPI



Plot 7-528. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 3) - LPI

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Plot 7-529. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 43) - LPI



Plot 7-530. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 91) - LPI

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Plot 7-531. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 7) - LPI



Plot 7-532. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 39) - LPI

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Plot 7-533. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 87) - LPI



Plot 7-534. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 15) - LPI

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Plot 7-535. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 47) - LPI



Plot 7-536. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 79) - LPI

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Plot 7-537. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (26 Tones) (UNII Band 6) - Ch. 97) - LPI



Plot 7-538. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (26 Tones) (UNII Band 6) - Ch. 105) - LPI

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Plot 7-539. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (26 Tones) (UNII Band 6) - Ch. 113) - LPI



Plot 7-540. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 6) - Ch. 99) - LPI

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Plot 7-541. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 6) - Ch. 107) - LPI



Plot 7-542. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 6) - Ch. 115) - LPI

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Plot 7-543. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (26 Tones) (UNII Band 6) - Ch. 103) - LPI



Plot 7-544. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax (26 Tones) (UNII Band 6) - Ch. 111) - LPI

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Plot 7-545. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 117) - LPI



Plot 7-546. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 149) - LPI

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Plot 7-547. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 185) - LPI



Plot 7-548. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 123) - LPI

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Plot 7-549. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 155) - LPI



Plot 7-550. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 179) - LPI

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Plot 7-551. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 119) - LPI



Plot 7-552. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 151) - LPI

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Plot 7-553. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 183) - LPI



Plot 7-554. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 143) - LPI

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Plot 7-555. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 175) - LPI



Plot 7-556. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (26 Tones) (UNII Band 8) - Ch. 189) - LPI

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Plot 7-557. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (26 Tones) (UNII Band 8) - Ch. 209) - LPI



Plot 7-558. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (26 Tones) (UNII Band 8) - Ch. 233) - LPI

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Plot 7-559. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 8) - Ch. 187) - LPI



Plot 7-560. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 8) - Ch. 211) - LPI

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Plot 7-561. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 8) - Ch. 227) - LPI



Plot 7-562. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (26 Tones) (UNII Band 8) - Ch. 199) - LPI

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Plot 7-563. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (26 Tones) (UNII Band 8) - Ch. 215) - LPI



Plot 7-564. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax (26 Tones) (UNII Band 8) - Ch. 207) - LPI

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MIMO Antenna-2 In-Band Emission Measurements (26 Tones) - SP

Plot 7-565. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (26 Tones) UNII Band 5) - Ch. 2 - SP



Plot 7-566. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 45) - SP

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Plot 7-567. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (26 Tones) UNII Band 5) - Ch. 93) - SP



Plot 7-568. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 3) - SP

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Plot 7-569. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 43) - SP



Plot 7-570. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 91) - SP

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager	
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Plot 7-571. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 7) - SP



Plot 7-572. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 39) - SP

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-573. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 87) - SP



Plot 7-574. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 15) - SP

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Plot 7-575. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 47) - SP



Plot 7-576. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax (26 Tones) (UNII Band 5) - Ch. 79) - SP

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Plot 7-577. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 117) - SP



Plot 7-578. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 149) - SP

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Plot 7-579. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 185) - SP



Plot 7-580. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 123) - SP

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Plot 7-581. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 155) - SP



Plot 7-582. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 179) - SP

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Plot 7-583. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 119) - SP



Plot 7-584. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 151) - SP

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Plot 7-585. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 183) - SP



Plot 7-586. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 143) - SP

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Plot 7-587. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax (26 Tones) (UNII Band 7) - Ch. 175) - SP

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MIMO Antenna-2 In-Band Emission Measurements (Full Tones) – LPI/SP



Plot 7-588. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tone) UNII Band 5) - Ch. 2 - LPI



Plot 7-589. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tone) (UNII Band 5) - Ch. 45) - LPI

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Plot 7-590. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tone) UNII Band 5) - Ch. 93) - LPI



Plot 7-591. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tone) (UNII Band 5) - Ch. 3) - LPI/SP

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-592. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tone) (UNII Band 5) - Ch. 43) - LPI/SP



Plot 7-593. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tone) (UNII Band 5) - Ch. 91) - LPI/SP

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Plot 7-594. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (Full Tone) (UNII Band 5) - Ch. 7) - LPI/SP



Plot 7-595. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (Full Tone) (UNII Band 5) - Ch. 39) - LPI/SP

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-596. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (Full Tone) (UNII Band 5) - Ch. 87) - LPI/SP



Plot 7-597. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax (Full Tone) (UNII Band 5) - Ch. 15) - LPI/SP

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Keysight Spectrum Analyzer - Twept	54	0.2007/02/2008			12 4 20
RL NF 10.0	PNO: Fast	Trig: Free Run	#Avg Type: RMS Avg[Hold: 100/100	06-08-10 PM Rev 01, 2022 TRACE 12 244 TVPE 4	Frequency
ASS	IFGein:Low	#Atten: 26 dB		DETARMAN	Auto Tupe
dBidly Ref 16.00 dB	Im		Mk	-4.979 dBm	Auto Tune
Trace 1 Pass					Center Freq
o					6.18500000 GHz
0					
ci					5.78500000 GHz
					Stop Freg
					6.58500000 GHz
					CF Step
					B0.000000 MHz Auto Man
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nter 6.1850 GHz	#VBW	50 MH2*	Sween 1	Span 800.0 MHz	Log Lin
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Plot 7-598. In-Band Emission Plot MIMO ANT2 160MHz BW 802.11ax (Full Tone) (UNII Band 5) - Ch. 47) - LPI/SP



Plot 7-599. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax (Full Tone) (UNII Band 5) - Ch. 79) - LPI/SP

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Plot 7-600. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tone) (UNII Band 6) - Ch. 97) - LPI



Plot 7-601. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tone) (UNII Band 6) - Ch. 105) - LPI

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Plot 7-602. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tone) (UNII Band 6) - Ch. 113) - LPI



Plot 7-603. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tone) (UNII Band 6) - Ch. 99) - LPI

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Plot 7-604. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tone) (UNII Band 6) - Ch. 107) - LPI



Plot 7-605. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tone) (UNII Band 6) - Ch. 115) - LPI

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Plot 7-606. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (Full Tone) (UNII Band 6) - Ch. 103) - LPI



Plot 7-607. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax (Full Tone) (UNII Band 6) - Ch. 111) - LPI

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Plot 7-608. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tone) (UNII Band 7) - Ch. 117) - LPI/SP



Plot 7-609. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tone) (UNII Band 7) - Ch. 149) - LPI/SP

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Plot 7-610. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tone) (UNII Band 7) - Ch. 185) - LPI/SP



Plot 7-611. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tone) (UNII Band 7) - Ch. 123) - LPI/SP

FCC ID: A3LSMS911JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-612. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tone) (UNII Band 7) - Ch. 155) - LPI/SP



Plot 7-613. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tone) (UNII Band 7) - Ch. 179) - LPI/SP

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Plot 7-614. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (Full Tone) (UNII Band 7) - Ch. 119) - LPI/SP



Plot 7-615. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (Full Tone) (UNII Band 7) - Ch. 151) - LPI/SP

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Plot 7-616. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (Full Tone) (UNII Band 7) - Ch. 183) - LPI/SP



Plot 7-617. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax (Full Tone) (UNII Band 7) - Ch. 143) - LPI/SP

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Plot 7-618. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax (Full Tone) (UNII Band 7) - Ch. 175) - LPI/SP



Plot 7-619. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tone) (UNII Band 8) - Ch. 189) - LPI

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Plot 7-620. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tone) (UNII Band 8) - Ch. 209) - LPI



Plot 7-621. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tone) (UNII Band 8) - Ch. 233) - LPI

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Plot 7-622. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tone) (UNII Band 8) - Ch. 187) - LPI



Plot 7-623. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tone) (UNII Band 8) - Ch. 211) - LPI

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Plot 7-624. In-Band Emission Plot MIMO ANT2 (40MHz BW 802.11ax (Full Tone) (UNII Band 8) - Ch. 227) - LPI



Plot 7-625. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (Full Tone) (UNII Band 8) - Ch. 199) - LPI

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Plot 7-626. In-Band Emission Plot MIMO ANT2 (80MHz BW 802.11ax (Full Tone) (UNII Band 8) - Ch. 215) - LPI



Plot 7-627. In-Band Emission Plot MIMO ANT2 (160MHz BW 802.11ax (Full Tone) (UNII Band 8) - Ch. 207) - LPI

MIMO Antenna-2 In-Band Emission Measurements (Full Tones) – SP

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Plot 7-628. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tone) UNII Band 5) - Ch. 2 - SP



Plot 7-629. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tone) (UNII Band 5) - Ch. 45) - SP

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Plot 7-630. In-Band Emission Plot MIMO ANT2 (20MHz BW 802.11ax (Full Tone) UNII Band 5) - Ch. 93) - SP

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7.6 Contention Based Protocol – 802.11ax §15.407(d)(6)

Test Overview and Limit

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices) are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

Unlicensed indoor low-power devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain.

To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel.

Test Procedure Used

ANSI C63.10-2013 – Section 12.3.2.2 KDB 987594 D02 v01r01

Test Settings

- 1. Configure the EUT to transmit with a constant duty cycle.
- 2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
- 3. Set the signal analyzer center frequency to the nominal EEUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
- 4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
- 5. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
- 6. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2.
- 7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
- 8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
- **9.** (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
- **10.** Refer to Table 1 of KDB 987594 D02 v01r01 to determine the number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

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Test Setup

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



Figure 7-5. Contention-based protocol test setup, conducted method

Test Notes

- Per guidance from KDB 987594 D02 v01r01, contention based protocol was tested using an AWGN signal with a bandwidth of 10MHz (see Plot 7-631). The amplitude of the signal was increased until detected by the EUT, signaled by the ceasing of transmission (see Plot 7-647), M1 indicates the point at which the AWGN signal is introduced. D1 indicates where the AWGN signal is terminated, at least 10 seconds following M1.
- 2. 15 trials were run in order to ensure certainty of 90%
- 3. Per Guidance from KDB 987594 D04 v01, contention based protocol was tested with receiver with the lowest antenna gain.
- 4. All CBP Timing Plots shown are for the ceased condition. Some spikes that may be shown are from adjacent portions of the spectrum that are still transmiting.

Detection Level = Injected AWGN Power (dBm) – Antenna Gain (dBi) + Path Loss (dB)

Band	Channel	Channel Freq [MHz]	Channel BW [MHz]	Incumbent Freq [MHz]	Injected (AWGN) [dBm]	Antenna Gain [dBi]	Adjusted Power Level [dBm]	Detection Limit [dBm]	Margin [dB]
	53	6215	20	6215	-73.48	-7.62	-65.86	-62.0	-3.86
UNII				6110	-70.69	-7.62	-63.07	-62.0	-1.07
Band 5	47	6185	160	6185	-70.06	-7.62	-62.44	-62.0	-0.44
				6260	-74.85	-7.62	-67.23	-62.0	-5.23
	101	6455	20	6455	-81.92	-4.98	-76.94	-62.0	-14.94
UNII				6430	-73.98	-4.98	-69.00	-62.0	-7.00
Band 6	111	6505	160	6505	-69.72	-4.98	-64.74	-62.0	-2.74
				6580	-74.02	-4.98	-69.04	-62.0	-7.04
	149	6695	20	6695	-80.18	-7.18	-73.00	-62.0	-11.00
UNII				6750	-73.48	-7.18	-66.30	-62.0	-4.30
Band 7	175	6825	160	6825	-69.52	-7.18	-62.34	-62.0	-0.34
				6900	-72.37	-7.18	-65.19	-62.0	-3.19
	197	6935	20	6935	-79.01	-7.35	-71.66	-62.0	-9.66
UNII				6910	-70.49	-7.35	-63.14	-62.0	-1.14
Band 8	207	6985	160	6985	-70.87	-7.35	-63.52	-62.0	-1.52
				7060	-72.16	-7.35	-64.81	-62.0	-2.81

Equation 7-1. Detection Level Calculation

Table 7-54. Contention Based Protocol – Incumbent Detection Results

FCC ID: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 255 of 200
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						EUT T	ransmission S	Status		
		Channel	Channel DW/	Incumbont	Antenna	Adjuste	d AWGN Powe	er (dBm)	Detection	Margin
Band	Channel	Freq [MHz]	[MHz]	Freq [MHz]	Gain [dBi]	Normal	Minimal	Ceased	Limit [dBm]	[dB]
	53	6215	20	6215	-7.62	-68.66	-66.66	-65.86	-62.0	-3.86
UNII				6110	-7.62	-68.57	-66.57	-63.07	-62.0	-1.07
Band 5	47	6185	160	6185	-7.62	-62.84	-62.54	-62.44	-62.0	-0.44
				6260	-7.62	-67.83	-67.43	-67.23	-62.0	-5.23
	101	6455	20	6455	-4.98	-82.64	-80.64	-76.94	-62.0	-14.94
UNII				6430	-4.98	-70.30	-69.30	-69.00	-62.0	-7.00
Band 6	111	111 6505	160	6505	-4.98	-67.64	-65.64	-64.74	-62.0	-2.74
				6580	-4.98	-70.54	-69.54	-69.04	-62.0	-7.04
	149	6695	20	6695	-7.18	-82.40	-80.40	-73.00	-62.0	-11.00
UNII				6750	-7.18	-70.70	-66.70	-66.30	-62.0	-4.30
Band 7	175	6825	160	6825	-7.18	-62.94	-62.74	-62.34	-62.0	-0.34
				6900	-7.18	-69.69	-67.69	-65.19	-62.0	-3.19
	197	6935	20	6935	-7.35	-75.66	-74.66	-71.66	-62.0	-9.66
UNII				6910	-7.35	-68.44	-66.44	-63.14	-62.0	-1.14
Band 8	207	6985	160	6985	-7.35	-64.12	-63.62	-63.52	-62.0	-1.52
				7060	-7.35	-68.41	-67.41	-64.81	-62.0	-2.81

Table 7-55. Contention Based Protocol – Detection Results – All Tx Cases

	CBP Detection (1 = Detection, Blank = No Detection)																			
Band	Channel	Channel Freq [MHz]	Channel BW [MHz]	Incumbent Freq [MHz]	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Detection Rate (%)
	53	6215	20	6215	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
UNII				6110	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
Band 5	47	6185	160	6185	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				6260	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
	101	6455	20	6455	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
UNII				6430	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
Band 6	111	6505	160	6505	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				6580	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
	149	6695	20	6695	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
UNII				6750	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
Band 7	175	6825	160	6825	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
				6900	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
	197	6935	20	6935	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
UNII				6910	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
Band 8	207	6985	160	6985	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100
1				7060	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100

Table 7-56. Contention Based Protocol – Incumbent Detection Trial Results

FCC ID: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 256 of 200
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AWGN Plots



Date: 20.007,2022 10:02:03

Plot 7-631. AWGN Signal – UNII 5 – 20MHz



Date: 20.007.2022 19:20:41

Plot 7-632. AWGN Signal - UNII 5 - 160MHz - Low

FCC ID: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 357 of 399
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Spectr	um	Sp	ectrum 2	(8)								
Ref Le Att SGL Co	vel -	-10.00 dB 0 c	m IB SWT 1	e RB ms e VB	W 100 kHz W 300 kHz M	Mode Swe	ер					
e 1Pk Ma	nt	100		29								
-20 dBm						MI[1] Occ Bw				-45:82 dB 6:1875620 GF 9:985528220 MI		
-30 dBm	-				+ +				-			
-40 dBm	+					MI		_	_	-		
-50 dBm	-		-	- JAV		maria	weeting .	7	-			
-60 dBm	+			1				{		-		
-78 dBm	-			1	-				-	-		
-80 dBm	-	_	-	1	-		-	1	-	-		
mab tip	mont	shall	mappe	al			-	form	l'Annale	apply	Moun	
-100 dBr	n				-		-	_	_	-		
CF 6.18	IS GH	z			691 p	ts				Span :	30.0 MHz	
Marker												
Туре	Ref	Trc	X-value		Y-value	Func	tion	F	unction F	tesult		
M1 T1 T2		1 1	6.180050 6.190030	52 GH2 07 GH2 52 GH2	-45,82 dBm -54.27 dBm -55.12 dBm	1 0	cc Bw		2	9.9855	2822 MHz	
		1				Re	ady	GARANA	40	10/ 87:	28/2022 19:52 PM	

Date: 20.007,2022 10:19:52





Date: 20.007,2022 13:19:13



FCC ID: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dega 259 of 200
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Spectrum	S	pectrum 2	(8)						
Ref Level Att SGL Count	-10.00 d 0 100/100	Brn dB SWT 1 m	e RB	W 100 kHz W 300 kHz M	lode Swee	p			2.0
• 1Pk Max	19 M M	53							
-20 dBm					MI	[1] : Bw		6.4 9.985	-48.81 dBn 581260 GH: 528220 MH;
-30 dBm		-				1997		a constant	
-40 dBm							-		
-50 dBm	-		There	an march	maria	the the			
-60 dBm-			1					-	-
-78 dBm			1				1		
-80 dBm	-	-	-	-			1	-	-
Ge delt	uport and	anous Mintug	8.				harayen	alman	Marrie
-100 dBm-	-								-
CF 6.455 G	Hz			691 pt	5			Spar	n 30.0 MHz
Marker	1.				1	2007	-		
M1	1	6.45912	GH2	-48.81 (%m	Functi	on	Fui	iction Kesu	R.
T1	1	6.450007	2 GHz	-54.54 d8m	. Oci	c Bw		9.98	52822 MHz
12	1	6.459992	3 GHz	-53.76 d8m		1			
1	1			11	Rea	dy	GARRENARP.	40	0/20/2022 6:41:40 PM

Date: 20.007,2022 10:41:40

Plot 7-635. AWGN Signal – UNII 6 – 20MHz



Date: 20.007,2022 13:18:34



FCC ID: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 250 of 200
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Spectru		Spectrum 2	(8)						
Ref Leve Att SGL Coun	el -10.00	dBm 0 dB SWT 1	e RB ms e VB	W 100 kHz W 300 kHz M	Mode Swe	ер			
• 1Pk Max	1								
-20 dBm—			-		M	1[1] CC BW		-4 6.509 10.026945	7.62 dBm 1240 GHz 1560 MHz
-30 dBm	-						-		
-40 dBm		-				ML			
-50 dBm-	-		Thelen	may server	warper a	-			
-60 dBm			ŗ						
-78 dBm—			-						
-80 dBm	-	-		-			1		
We BEAL	happylog	Montheman	1				Lynnen	month	man
-100 dBm-		-				-	-		
CF 6.505	GHz			691 p	ts			Span 3	0.0 MHz
Marker									
Type R	ef Trc	X-value	·	Y-value	Func	tion	Fun	ction Result	
M1 T1 T2	1	6.49996 6.50999	24 GH2 38 GH2 28 GH2	-47.52 dBm -56.60 dBm -53.43 dBm	0	cc Bw	11-0-440	10.02894	356 MHz
					Re	ady	GARRENARD.	400 10/2 87:1	6/2022 139 PM

Date: 20.007,2022 10:17:39





Date: 20.007,2022 15:17:00



FCC ID: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dega 260 of 200
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Spect	rum	S	ectrum 2	(8)								
Ref L Att SGL C	evel	-10.00 di 0	da SWT 1	e RB ms e VB	W 100 kHz W 300 kHz N	tode Sw	тер				5	
• 1Pk M	lait .	100	9 V	5								
-20 dBr	n			-		MI[1] Occ Bw				-47.35 dBm 6.6952600 GHz 10.028943560 MHz		
-30 dBr	n						Contraction.	-		0.077270		
-40 dBr	m					1						
-50 dBr	n			- from	amontha I	- and	Thomas	9	_			
-60 dBr	n						-		_			
-78 dBr	0			1				1	_			
-80 dBr	n		-	1-	-		-	1	-		-	
ab be	Amer	morpha	golink	1				MA	And	man	markan	
-100 di	-me		-	(_			
CF 6.6	95 Gł	łz			691 p	ts				Sp	an 30.0 MHz	
Marker	1					1			-			
M1	Ref	1	x-value 6.6952	6 GHz	-47.35 dbm	Function Fun		ction xes	un			
T1		1	6.689963	B GHz	-56.58 dBm	0	CC BW			10.0	2894356 MHz	
T2		1	6.699992	8 GHz	-54.39 d8m	i l						
		1				R	eady	GARAN	COLUMN T	440	10/28/2022 86:42:22 PM	

Date: 20.007,2022 10:42:21

Plot 7-639. AWGN Signal – UNII 7 – 20MHz



Date: 20.007,2022 10:16:25



FCC ID: A3LSMS911JPN		Approved by: Technical Manager		
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Spectr	am	S	bectrum 2	(8)								
Ref Le Att SGL Cou	vel -1	10.00 di 0 0/100	da SWT 1	e RB ms e VB	W 100 kHz W 300 kHz	Mode	e Sweep				2,5	
e 1Pk Ma	¢:						501					
-20 dBm-				-			MI[1] Occ Bw			-45.76 dBn 6.8256950 GHs 10.026943560 MHs		
-30 dBm-	-			-	-	-	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	<u></u>	-			
-40 dBm-	+			1.00	-	MI	-					
-50 dBm-	-			THAS	marine and	As	www.	12	-			
-60 dBm-	-			1		~	_	1				
-78 dBm-	+-			-	-			+	-			
-80 dBm-	-		-	1	-	-	-	-			-	
90 dBm-	and	hundre	-Mound	1	-			1	mining	man	Mounda	
-100 dBm	-				-							
CF 6.82	5 GHz	_			691	pts				Spa	m 30.0 MHz	
Marker		1000	0.500,000,000,000									
Type	Ref	Trc	X-value		Y-value	-	Function	-	Fun	ction Resu	ult	
71 T2	1 5.825695 GHz -4 1 6.8200072 GHz -5 1 6.8300362 GHz -5		-45.70 de -54.50 de -54.89 de	im im	Occ Bw			10.02	894356 MHz			
						111	Ready	- 1	ARRENAL PROPERTY.	440	10/20/2022 07:15:41 PM	

Date: 20.007,2822 18:15:40





Date: 20.007,2022 13:15:01



FCC ID: A3LSMS911JPN		Approved by: Technical Manager	
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Spectru	m	S	pectrum 2	(8)							
Ref Lev Att SGL Cour	el -10	3.00 di 0 /100	Brn dB SWT 1	e RB ms e VB	W 100 kHz W 300 kHz M	Node Sw	еер				
• 1Pk Max	1	1		09							
-20 dBm						MI[1] Occ Bw			-48.25 dBm 6.9365200 GHz 10.072358900 MHz		
-30 dBm	-				-	-			di durante		
-40 dBm	-		-	-		MI	-	_			
-50 dBm-	-		+	yes	- de company	andres	a series	2	-		
-60 dBm-	-		-	1						-	
-78 dBm-	+		<u> </u>		-			1		-	
-80 dBm-	-	07	-	1			-				
-90 dBm-	UNRAL)	mber	llhowww	1			-	bestine	munun	ground	
-100 dBm-			-		-		-	-			
CF 6.935	GHz				691 p	ts			Spar	1 30.0 MHz	
Marker			122/00/202		1420100022	1.		1223			
Type R	et T	PC	X-value	CO CHER	Y-value	Function Fun		inction Resul	t		
71		1	6.92996	38 GHz	-55.83 dBr		Doc Bw		10.07	23589 MHz	
T2		1	6.94003	62 GHz	-56.74 d8m	v	and the second				
					11	R	eady	GARANANA	440	0/28/2022 6:46:35 PM	

Date: 20.007,2022 10:46:35

Plot 7-643. AWGN Signal – UNII 8 – 20MHz



Date: 20.007.2822 13:14:18



FCC ID: A3LSMS911JPN		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dage 262 of 200
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Spectru	m	SI	ectrum 2	(8)					Em A		
Ref Lev Att SGL Cour	el -10	1.00 di 0 /100	um dB SWT 1 m	e RB	W 100 kHz W 300 kHz M	4ode S	weep				
1Pk Max	1	1									
-20 dBm-						MI[1] Occ Bw			-47.68 dBm 6.9891240 GHz 10.028943560 MHz		
-30 dBm	-							_	 Outraining Density induction 		
-40 dBm	-						ML	_			
-50 dBm-			-	Pala	- marine	منالهماني	wing	2			
-60 dBm-	+-			1				1			
-78 dBm-	+-	_		1	++		-				
-80 dBm-	-	201	-	-	-		-	1	1		
-90 dBm-	nichi	shake	nynmina	1			_	minister	annumerous		
-100 dBm								_			
CF 6.985	GHz	_			691 p	ts			Span 30.0 MHz		
Marker									NACIO MILINO NO DO DO DO		
Type F	tef T	rc	X-value	-	Y-value	Fu	nction	Fu	nction Result		
M1 T1 T2		1 1	6.980007 6.990036	4 GH2 2 GH2 2 GH2	-47.68 den -55.51 den -55.92 den	1	Occ Bw		10.02894356 MHz		
						11	Ready	GARANAN	10/28/2022 87:13:37 PM		

Date: 20.007.2822 18:13:37





Date: 20.007,2022 15:12:58



FCC ID: A3LSMS911JPN		Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Page 364 of 300	
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CBP Timing Plots

Spect	rum	S	pectrum 2	×					E
Ref L Att SGL	evel :	30.00 dB 40 d	m 18. e SWT 40 s	VBW	20 MHz 20 MHz				2.C.
● 1Pk M	lax		05 - SR			9			
						(D1[1]		-35.63 d 13.0000
20 dBm	unin	ويدو مريقاه	- manufaction		1	7	11[1]		14.78 dB
10 dBm	-				-		1		CURCON
0 dBm-	-						-		
-10 dBr	n						-	_	
-20 dBr	n			ACHINA	and the support	monormality	-		
-30 dBr	n							_	
-40 dBr	n				-		-		
-50 dBr	n							-	
-60 dBr	n						-	_	
CF 6.2	15 GH	z	4		1001	l pts	-		4.0 s/
larker		0.000017	NR 77 # 100 NO.10						
Type M1	Ref	Trc 1	X-value 10.16	s	Y-value 14.28 dB	Fun Im	ction	Func	tion Result
D1	M1	1	13.0	5	+35.63	dB			
-	10	1					teady	GARRENARD (11/12/2022 06:21:51 PM

Date: 12.NOV.2822 10:21:51

Plot 7-647. Contention Based Protocol Timing Plot - UNII 5 - 20MHz Ch53



Date: 12.90V.2022 10:37:27

Plot 7-648. Contention Based Protocol Timing Plot – UNII 5 – 160MHz Ch47 – Low

FCC ID: A3LSMS911JPN		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dega 265 of 200
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Spectrun	n s	pectrum 2							
Ref Leve	30.00 dB	im 🖷	RBW 20 MHz						<u> </u>
Att	40 (d8 🖶 SWT 40 s	VBW 20 MHz						
SGL									
e 19k Max	31	22 SR							
					D1[1]				-29.81 dt
20 dBm-									14.6800 1
ea ann				WILT					8.28 dBn
10 #8m-+		M1			-				11.4000 9
a have	and with the	and and she find				2	and the marked and	mitaria	handreamater
0 dBm			-			-			
-10 dBm			_		-	-			
			cost and and	100000000	and the second				
-20 dBm-		S. Anola	Autor denter all hands	will a Carlo	all have been all and	al.			
-20 dBm									
20 9011									
-40 dBm		-			_				
-50 dBm	-	-					-		
-60 dBm					-				
harenez				0					
CF 6.185 (Hz		1001	pts					4.0 s/
Marker	and the second	48004-04000		10000		_	520000		
Type Re	f Trc	X-value	Y-value	Function Function		tion Result	4		
DI A	1	11.4	s 8.28 08	40		-			
01 0	141 11	14.00	s -25.01 (10		_			712 /3013
					Ready	- 0	ARABAM PROPERTY AND INC.	100 de	c33:44 PM

Date: 12.NOV.2022 10:33:44

Plot 7-649. Contention Based Protocol Timing Plot - UNII 5 - 160MHz Ch47 - Mid



Date: 12.00V,2822 18:40:28

Plot 7-650. Contention Based Protocol Timing Plot - UNII 5 - 160MHz Ch47 - High

FCC ID: A3LSMS911JPN		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dage 266 of 200
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Spect	um	* 5	pectrum 2	*						
Ref Lo Att	vel :	30.00 dB 40 c	m 18 🖶 SWT 40	e RB)s VB	W 20 MHz W 20 MHz					1. C
SGL	-									
1PK Ma	ak I						DILL			- 0.5 (4.0 da
							0411			15 0000 *
20 dBm-		makuni	101				M1[1]	matrial	مەروپ دورورو مەروپ	14.56 dBm
10 dBm-	-				-		1	11		11.0000 5
0 dBm-	+				-					
-10 dBm	-				-		_			
-20 dBm	-				mentralumena	- len n				-
-30 dBm	-		-					_		_
-40 dBm	-		-		-		-			_
-50 dBm	-			-	-		-	_		_
-60 dBm	-		-		-		-	-		
CF 6.43	IS GH	z		6	1001	pts	- 1	_		4.0 s/
Marker		~~~				durine .				
Type	Ref	Trc	X-value	- I	Y-value	Fu	inction		Function F	Result
M1 D1	M1	1		1.68 s 15.0 s	14.56 dB -36.43 d	m IB				
		1			1	11	Ready	GARRY	RANK 🚧	11/12/2022 87:57:38 PM

Date: 12.NOV.2822 19:57:38





Date: 12.00V.2622 10:52:37



FCC ID: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dage 267 of 200	
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Spect	num	* 5	Spectrum 2	(8)								
Ref Li	evel 3	30.00 d 40	Bm dB <mark>e SWT</mark> 4	e RB 0 s VB	W 20 MHz W 20 MHz							
PIPk M	ак				c 2	A		_				
20 dBm	-	_					D	1[1] 1[1	1		1.	27.19 dt 13.6800 4 5.24 dBn 11.0000
10 dBm-	and a	لسباطي	-hum dif					1	hand	ال از مراسط م	of an al mark	n hile and here
-10 dB#	+					-		$\left \right $				
-20 dBn	-		-	ala ala		-1		2				
-30 dBn												
-50 dBm												
-60 dBm	+				-	-		-				
CF 6.5	DS GH	z		4	100	1 pts	_	L.				4.0 s/
Marker		a transfer	100.00 M - 20.00						- 277			
Type	Ref	Trc	X-value		Y-value	-	Func	tion		Fun	ction Resul	t.
M1 D1	M1	1		11.0 s 13.68 s	5.24 dž -27.19	3m dB						
							R	cady		ARABAM P	440	1/12/2022 6:59:18 PM

Date: 12.NOV,2822 18:59:18

Plot 7-653. Contention Based Protocol Timing Plot - UNII 6 - 160MHz Ch111 - Mid



Date: 12.90V.2022 10:55:29

Plot 7-654. Contention Based Protocol Timing Plot - UNII 6 - 160MHz Ch111 - High

FCC ID: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 269 of 200
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Spectr	um	S	pectrum 2	(8)							
Ref Le Att	vel 3	30.00 dB 40 c	m 18 📦 SWT 4	e RB Ю s VB	W 20 MHz W 20 MHz						
SGL											
e iPk Ma	N.		22 <u> </u>	523	- 25	_					
20 dBm-			141	-			D1[1	1			-34.61 d8 12.0000 s 13.03 dBm
example	-	and shares	anna					وليلله	- in a second second	Salada Salada	him grandly
10 dBm-				-					-		
0 dBm	+				-	$\left \right $	-		-		
-10 dBm-	+			-			-		-		
-20 dBm-	÷		Sp-1	·		-3			-	-	
-30 dBm-	+		-	-	-	-	-		-		+
-40 dBm-	-		-				-				-
-50 dBm-	+		-	1			-				-
-60 dBm-	+		-	1			-		-	-	-
CF 6.69	5 GH	z	-	1	1001	L pts					4.0 s/
Marker											
Type	Ref	Tro	X-valu	e	Y-value		Functio	n	Fun	ction Res	alt .
M1 D1	M1	1		9.28 s 12.0 s	13.03 dB -34.61	3m dB		-	10012		
						110	Read	y	GARRENAR	440	11/12/2022 07:54:36 PH

Date: 12.000,2022 10:54:35





Date: 12.NOV.2022 10:30:18

Plot 7-656. Contention Based Protocol Timing Plot - UNII 7 - 160MHz Ch175 - Low

FCC ID: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 260 of 200
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Spect	rum	S	pectrum 2	(8)							
Ref Li Att	evel :	30.00 dB 40 c	m 18 e SWT 40	e RB is VB	W 20 MH2 W 20 MH2						2,0
IPk M	ак				c						
20 dBm	-		MI				D1 M1	(1) (1)			28.05 dt 12.4800 8.22 dBn 11.6000
0 dBm-			Long Production splitter					hanastan	*****		and the second second
-10 dBn	-										
-20 dBn	+		- 1				and a	-			
-30 dBn				-			-		-		
-40 dBn	-										
-50 dBn	1-			-							
-60 dBn	1										
CF 6.8	25 GH	z			1001	pts					4.0 s/
Type	Ref	Trc	X-value	1160	Y-value	F	unct	ion	Fun	ction Result	i /
DI	M1	1	1	2.48 5	-28.85 (1B					
)[1	Rea	dy ii	ARKS AND	440 L	/12/2022 :27:47 PM

Date: 12.NOV.2822 19:27:47

Plot 7-657. Contention Based Protocol Timing Plot - UNII 7 - 160MHz Ch175 - Mid

Date: 12.NOV.2022 10:32:40

Plot 7-658. Contention Based Protocol Timing Plot - UNII 7 - 160MHz Ch175 - High

FCC ID: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dage 270 of 200
1M2212080136-13-R1.A3L	9/03/2022 - 11/23/2022	Portable Handset	Page 370 01 399
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Spectra	ann :	* 5	ectrum 2	(8)						-
Ref Le	vel 3	30.00 dB	m	e RB	W 20 MHz					1
Att		40 d	8 🖶 SWT 4)s VB	W 20 MHz					
SGL										
e iPk Mai	¢		22	2	-34					
							D1[1]			-31.74 d8
20 dBm-	_		_				212100			11.0800 s
en onne			1000	(Ma)			MI[1]	ANTER OWNER	10.545	11.17 dBm
10 d8m-		TRAU ANTINA	A	HALL W			- party	and rate and	Photo and and and	1. Langelling
(20(653))-5			_							
0 dBm-	+		-					_	-	
-10 dBm-	+									
								10		
-20 dBm-	+			history		april () and () and () and (A-		-	
-30 dBm-	-						-			
10.000										
-+0 06/11-										
-50 dBm-	_						_			
-60 dBm-	-				-		-			
CF 6.93	S GH	z			1001	pts	1		-	4.0 s/
Marker		~~~								
Type	Ref	Trc	X-value		Y-value	Fur	oction	Fur	uction Result	
M1	100	1		13.2 s	11.17 dBr	n:		10015		
D1	M1	1	1	11.08 s	-31.74 d	B				
		1				100	Ready	GARANNA	400 11	/12/2022 -51-29 PM

Date: 12.NOV.2822 18:51:29

Date: 12.00V.2622 18:39:32

Plot 7-660. Contention Based Protocol Timing Plot - UNII 8 - 160MHz Ch207 - Low

FCC ID: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Dega 271 of 200
1M2212080136-13-R1.A3L	9/03/2022 - 11/23/2022	Portable Handset	Page 37 1 01 399
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Spectr	um	S	pectrum 2								
Ref Lo Att SGL	ivel 3	30.00 de 40	lm d8 e SWT	● RB 40 s VB	W 20 MHz W 20 MHz						3.5
e iPk Ma	a K		12.	52	- SC 2						
20 dBm-	-						M	1(1) 1(1)	Ĩ.	2%	- 26.31 d8 10.3600 s 5.48 dBm 9.0400 s
HARD	U.L.	ALL MALL	LUUL	-		Juli		upper an	annan anna	- un un un un	- daman
0 dBm-	~	Sectors)	10.00		-			1245555	and the second	- 2000 - 300000	Contra contration a
-10 dBm	_			_					_		
-20 dBm	_		-					-			_
-30 dBm	-				-	-			_		_
-40 dBm	-		-	-	-	-			_		_
-50 dBm			-	-	-	-		-	_	-	
-60 dBm			-		-	-			-		
CF 6.98	IS GH	z			1001	l pts		<u>.</u>			4.0 s/
Marker				MAN THE							
Type	Ref	Trc	X-valı	e	Y-value	1	Func	tion		Function Re	sult
D1	M1	1		9.04 s 10.36 s	5.48 dB -26.31	dB					
		1				1	Re	ady	GARAGE	NU 440	11/12/2022 07:45:53 PM

Date: 12.NOV.2822 18:45:52

Plot 7-661. Contention Based Protocol Timing Plot - UNII 8 - 160MHz Ch207 - Mid

Date: 12.00V.2622 19:41:34

Plot 7-662. Contention Based Protocol Timing Plot - UNII 8 - 160MHz Ch207 - High

FCC ID: A3LSMS911JPN		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Dage 272 of 200	
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