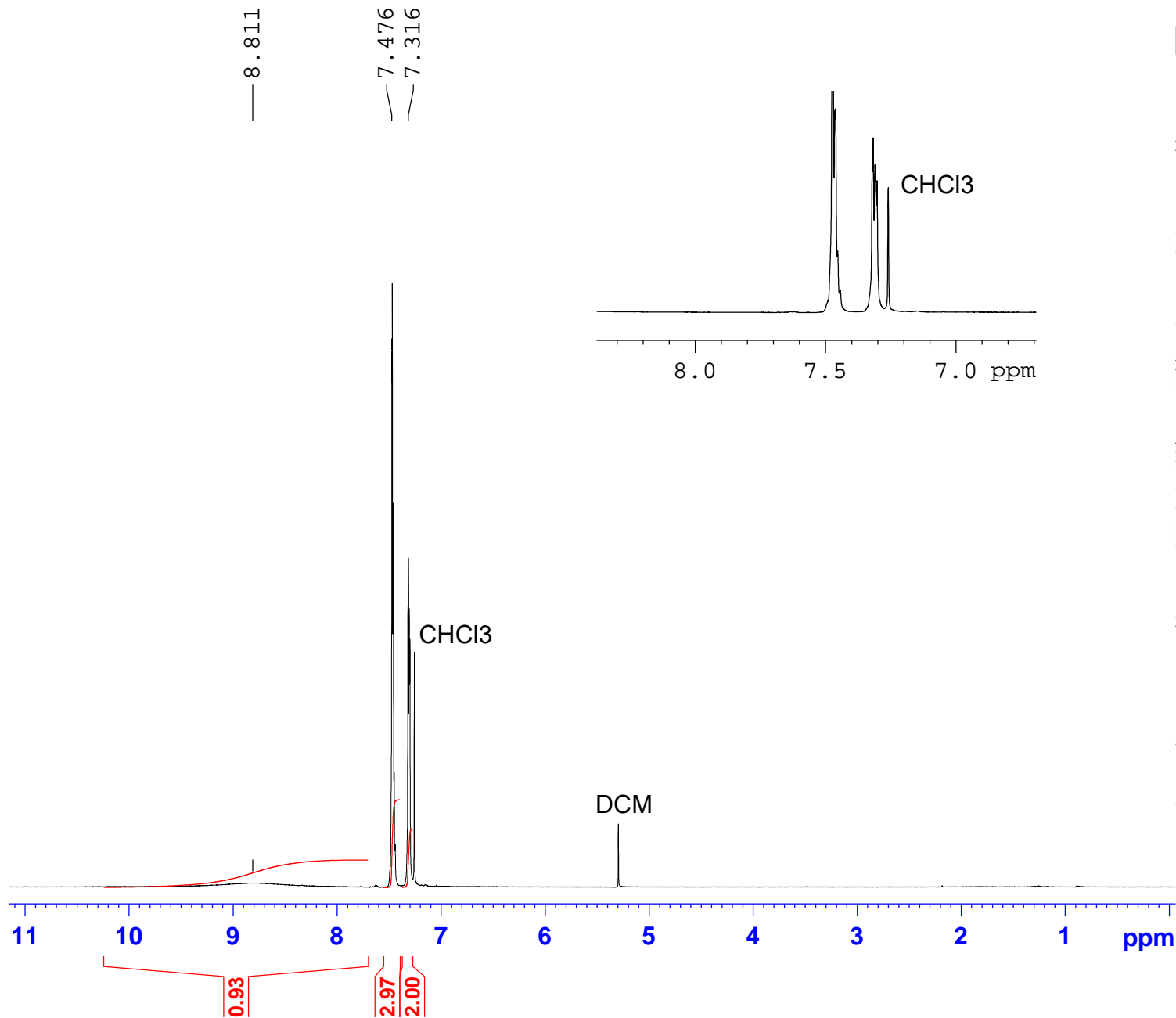
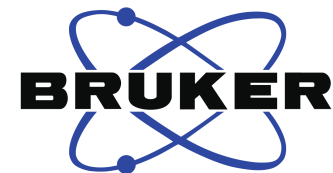


1H NMR of 3-Bromo-4-phenylisothiazole-5-carboxylic acid (12)

AK1074



Current Data Parameters
 NAME Andreas Kalogirou
 EXPNO 554
 PROCNO 1

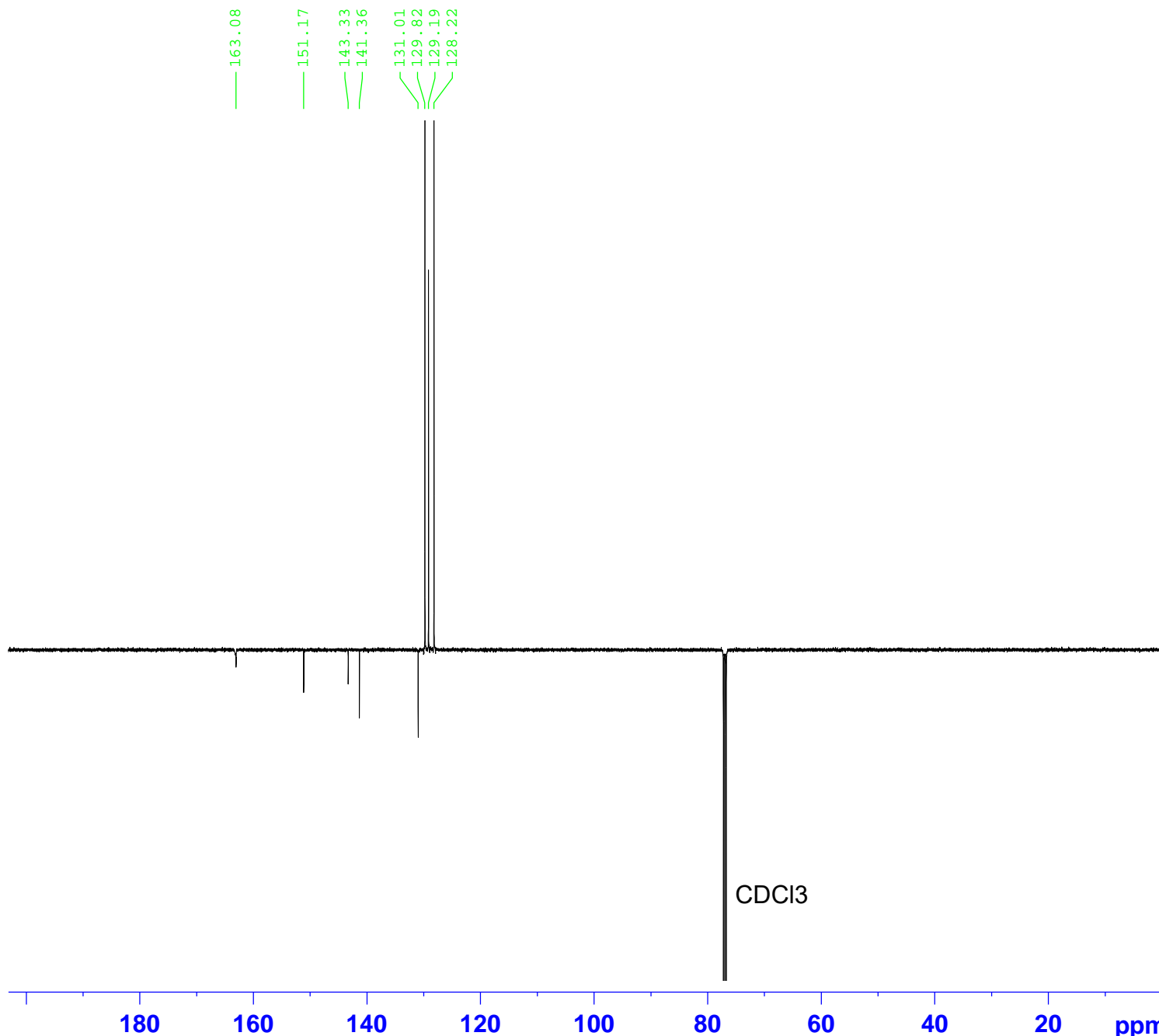
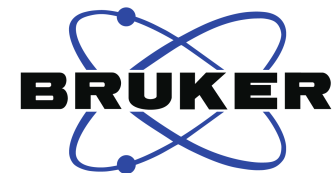
F2 - Acquisition Parameters
 Date_ 20140107
 Time 19.03
 INSTRUM spect
 PROBHD 5 mm PABBO BB-
 PULPROG zg30
 TD 65536
 SOLVENT CDCl₃
 NS 16
 DS 2
 SWH 10330.578 Hz
 FIDRES 0.157632 Hz
 AQ 3.1719425 sec
 RG 161
 DW 48.400 usec
 DE 6.50 usec
 TE 298.2 K
 D1 1.00000000 sec
 TD0 1

==== CHANNEL f1 =====
 SFO1 500.0361158 MHz
 NUC1 1H
 P1 11.75 usec
 PLW1 15.41699982 W

F2 - Processing parameters
 SI 65536
 SF 500.0330402 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

AK1074

13C NMR of 3-Bromo-4-phenylisothiazole-5-carboxylic acid (12)



Current Data Parameters
NAME Andreas Kalogirou
EXPNO 555
PROCNO 1

F2 - Acquisition Parameters
Date_ 20140108
Time 9.03
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG jmod
TD 65536
SOLVENT CDCl3
NS 16000
DS 4
SWH 29761.904 Hz
FIDRES 0.454131 Hz
AQ 1.1010048 sec
RG 2050
DW 16.800 usec
DE 6.50 usec
TE 297.1 K
CNST2 145.000000
CNST11 1.0000000
D1 2.0000000 sec
D20 0.00689655 sec
TD0 1

==== CHANNEL f1 =====
SFO1 125.7459782 MHz
NUC1 13C
P1 8.70 usec
P2 17.40 usec
PLW1 138.0000000 W

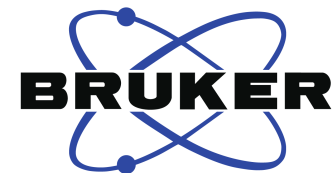
==== CHANNEL f2 =====
SFO2 500.0350280 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 15.41699982 W
PLW12 0.33258000 W

F2 - Processing parameters
SI 32768
SF 125.7334070 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

CDCl3

AK110

1H NMR of 3-Bromoisothiazole-5-carboxylic acid (13)

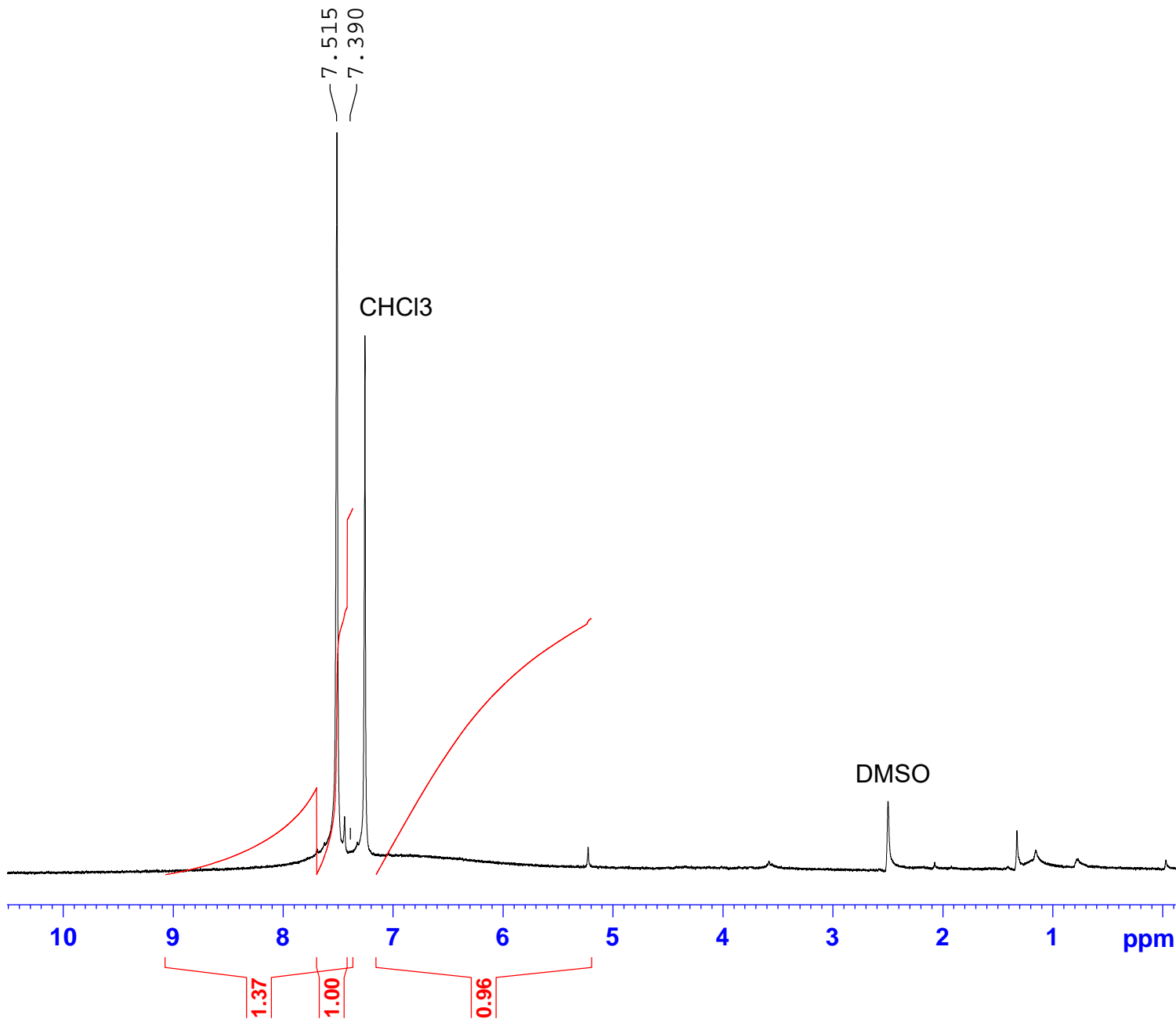


Current Data Parameters
NAME Andreas Kalogirou
EXPNO 591
PROCNO 1

F2 - Acquisition Parameters
Date_ 20140204
Time 15.22
INSTRUM spect
PROBHD 5 mm PABBO BB-
PULPROG zg30
TD 65536
SOLVENT CDCl3
NS 16
DS 2
SWH 10330.578 Hz
FIDRES 0.157632 Hz
AQ 3.1719425 sec
RG 181
DW 48.400 usec
DE 6.50 usec
TE 297.8 K
D1 1.00000000 sec
TD0 1

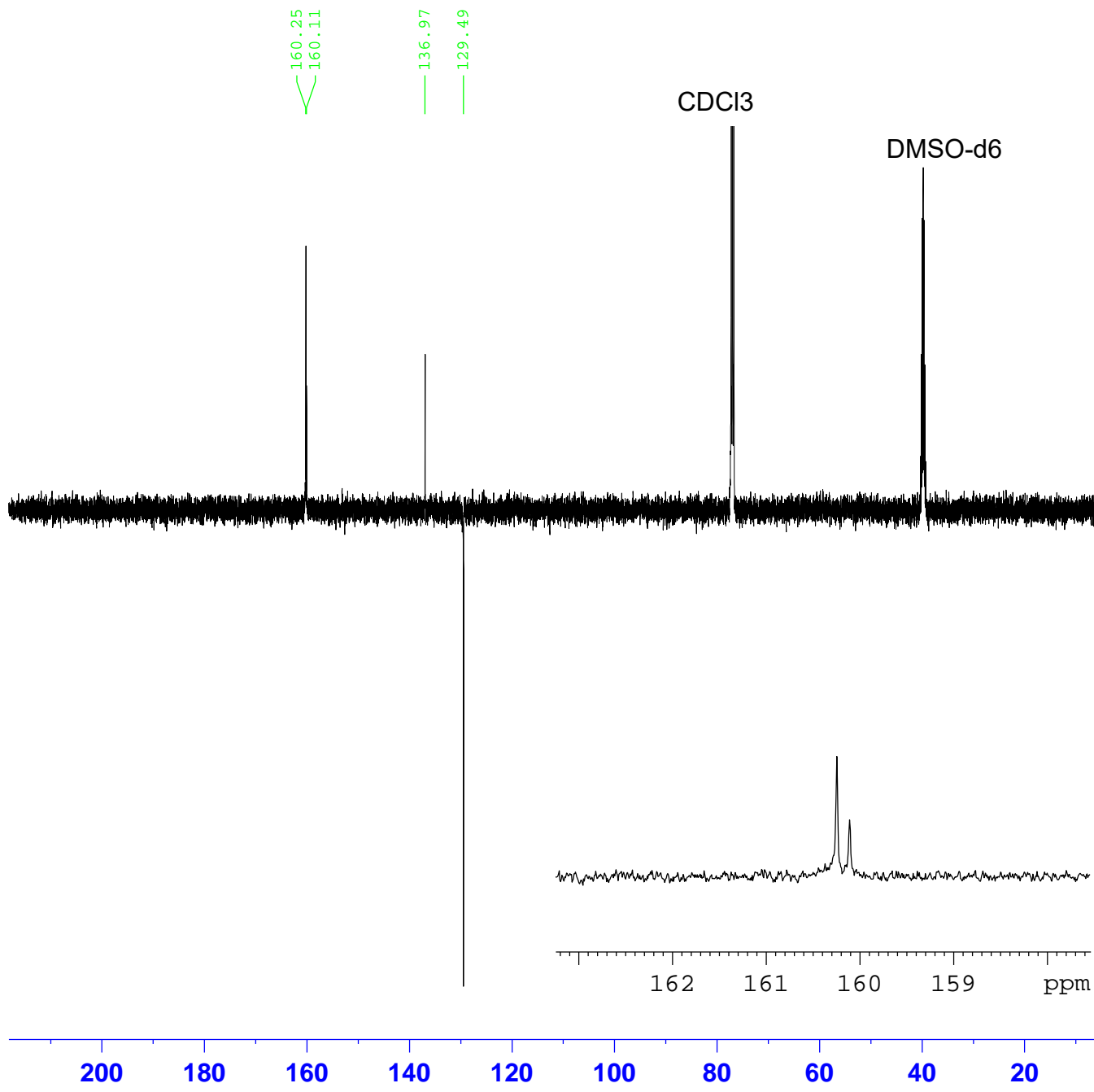
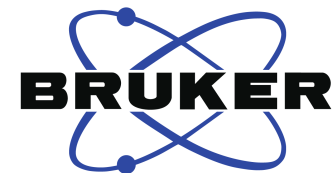
==== CHANNEL f1 =====
SFO1 500.0361158 MHz
NUC1 1H
P1 11.75 usec
PLW1 15.41699982 W

F2 - Processing parameters
SI 65536
SF 500.0330401 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00



AK110

13C NMR of 3-Bromoisothiazole-5-carboxylic acid (13)



Current Data Parameters
NAME Andreas Kalogirou
EXPNO 592
PROCNO 1

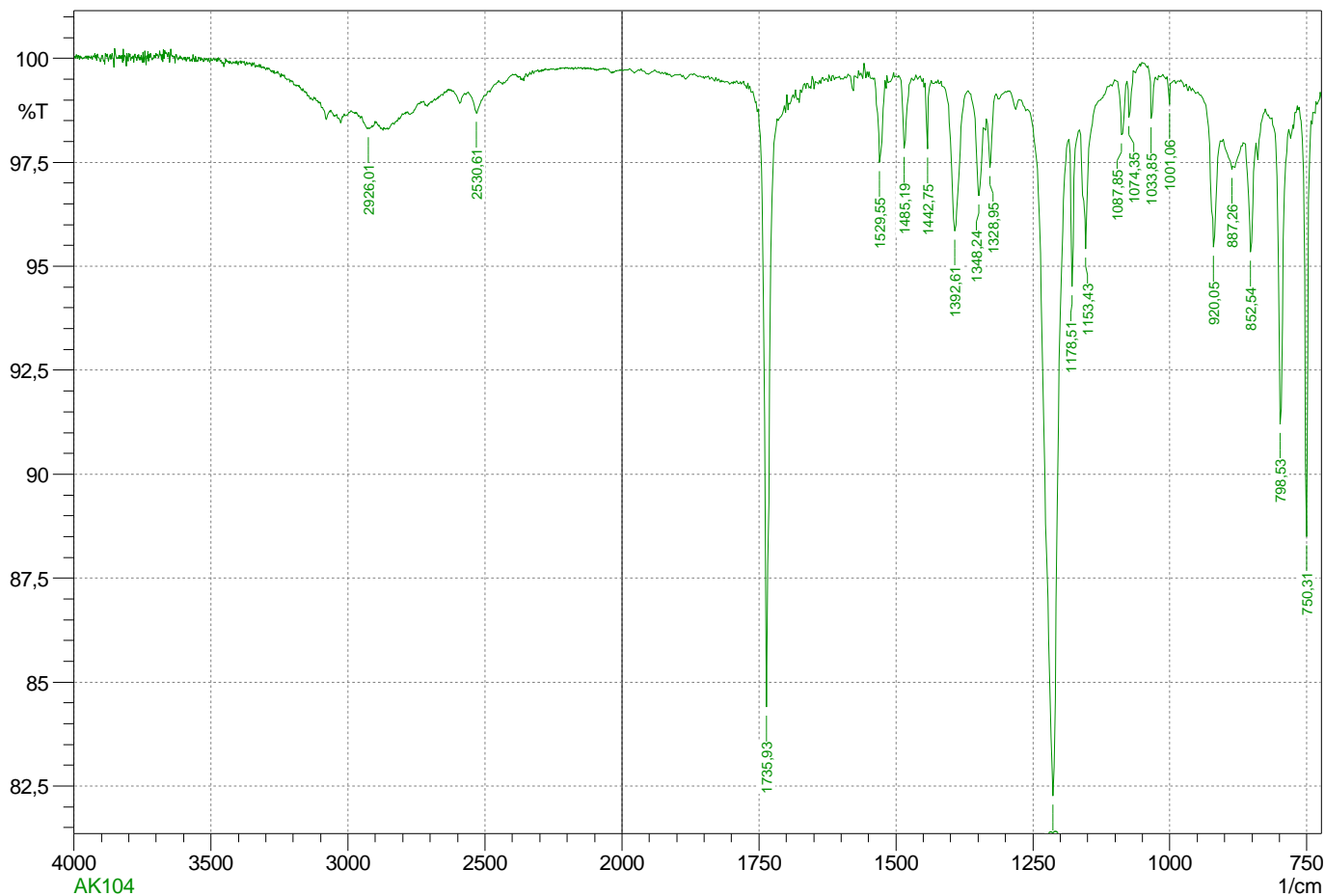
F2 - Acquisition Parameters
Date_ 20140204
Time 18.45
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PULPROG jmod
TD 65536
SOLVENT CDCl3
NS 3877
DS 4
SWH 29761.904 Hz
FIDRES 0.454131 Hz
AQ 1.1010048 sec
RG 2050
DW 16.800 usec
DE 6.50 usec
TE 299.5 K
CNST2 145.000000
CNST11 1.000000
D1 2.0000000 sec
D20 0.00689655 sec
TD0 1

==== CHANNEL f1 =====
SFO1 125.7459782 MHz
NUC1 13C
P1 8.70 usec
P2 17.40 usec
PLW1 138.0000000 W

==== CHANNEL f2 =====
SFO2 500.0350280 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 15.41699982 W
PLW12 0.33258000 W

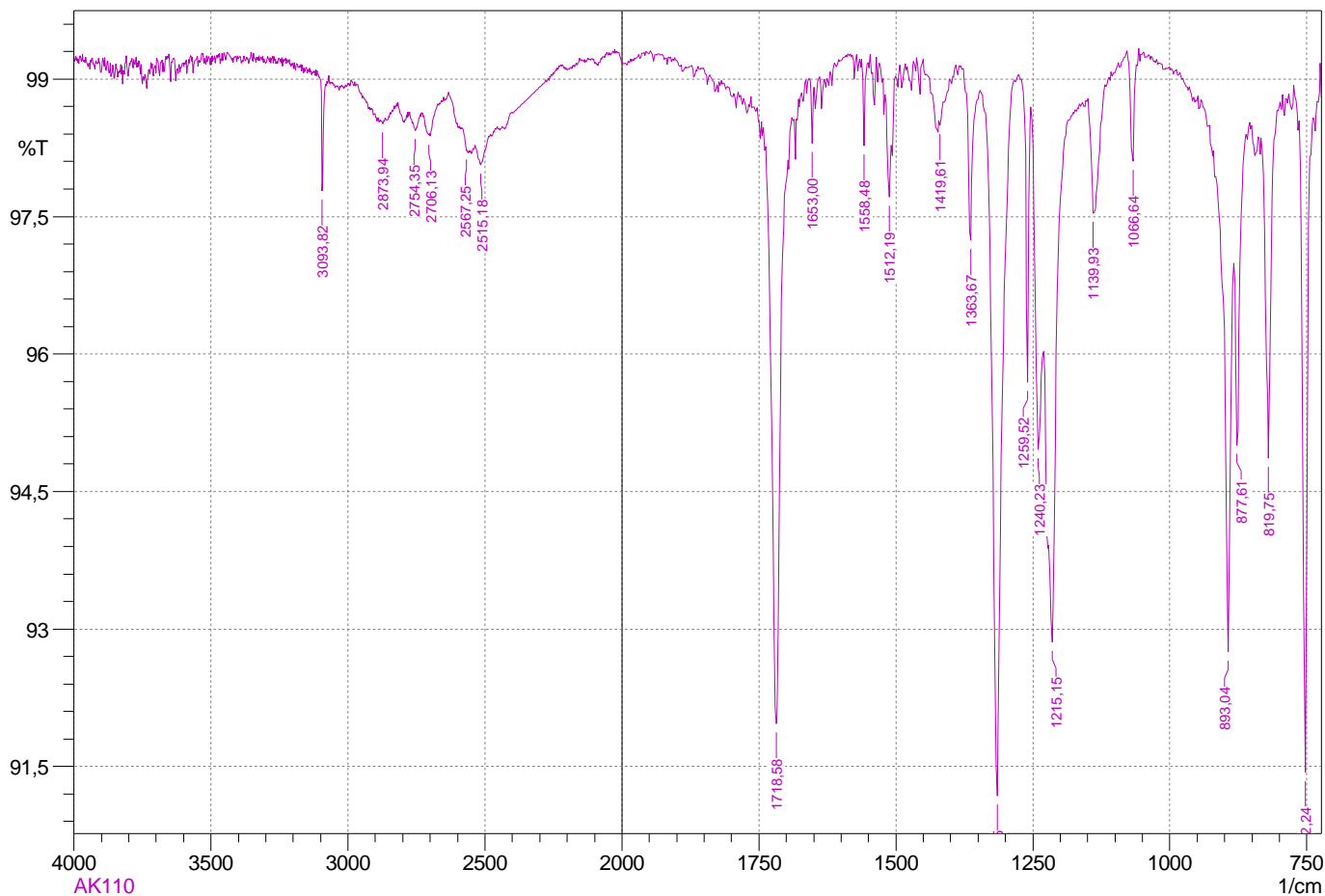
F2 - Processing parameters
SI 32768
SF 125.7334278 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

IR of 3-Bromo-4-phenylisothiazole-5-carboxylic acid (12)



	Peak	Intensity	Corr. Intensity	Base (H)	Base (L)	Area	Corr. Area
1	750,31	88,497	10,267	763,81	738,74	0,444	0,308
2	798,53	91,194	7,232	813,96	783,1	0,527	0,314
3	852,54	95,342	2,442	862,18	844,82	0,257	0,088
4	887,26	97,331	0,69	902,69	866,04	0,379	0,06
5	920,05	95,458	2,891	948,98	908,47	0,382	0,135
6	1001,06	98,889	0,646	1004,91	991,41	0,039	0,01
7	1033,85	98,557	1,149	1039,63	1026,13	0,043	0,025
8	1074,35	98,573	0,969	1078,21	1066,64	0,044	0,023
9	1087,85	98,164	1,307	1101,35	1078,21	0,098	0,045
10	1153,43	95,423	3,1	1165	1114,86	0,399	0,141
11	1178,51	94,512	3,601	1184,29	1166,93	0,228	0,087
12	1213,23	82,257	16,025	1257,59	1186,22	2,451	1,94
13	1328,95	97,378	1,367	1334,74	1317,38	0,128	0,04
14	1348,24	96,692	1,887	1367,53	1340,53	0,227	0,079
15	1392,61	95,854	3,418	1411,89	1369,46	0,381	0,245
16	1442,75	97,816	1,61	1446,61	1435,04	0,055	0,026
17	1485,19	97,841	1,721	1494,83	1471,69	0,105	0,061
18	1529,55	97,496	2	1539,2	1519,91	0,122	0,08
19	1735,93	84,406	14,422	1761,01	1716,65	0,936	0,714
20	2530,61	98,687	0,474	2555,68	2490,1	0,297	0,06
21	2926,01	98,306	0,156	2951,09	2912,51	0,272	0,017

IR of 3-Bromoisothiazole-5-carboxylic acid (13)



	Peak	Intensity	Corr. Intensity	Base (H)	Base (L)	Area	Corr. Area
1	752,24	91,4354	7,1251	763,81	738,74	0,4436	0,2858
2	819,75	94,8601	3,6383	833,25	804,32	0,3565	0,1676
3	877,61	95,0039	2,338	883,4	860,25	0,3083	0,0736
4	893,04	92,7471	4,5651	920,05	883,4	0,613	0,2266
5	1066,64	98,1024	1,1022	1078,21	1060,85	0,0938	0,0356
6	1139,93	97,5342	1,3017	1149,57	1118,71	0,2439	0,0906
7	1215,15	92,8591	1,6731	1220,94	1176,58	0,6412	-0,0955
8	1240,23	94,9565	2,1813	1253,73	1230,58	0,3693	0,0994
9	1259,52	95,6905	3,105	1271,09	1253,73	0,1542	0,0666
10	1315,45	91,1764	7,757	1346,31	1284,59	0,9606	0,6731
11	1363,67	97,2426	1,7665	1377,17	1346,31	0,2075	0,0721
12	1419,61	98,4964	0,1011	1421,54	1413,82	0,0475	0,0019
13	1512,19	97,7103	0,7523	1519,91	1508,33	0,0896	0,0164
14	1558,48	98,2702	0,938	1562,34	1550,77	0,0533	0,013
15	1653	98,2968	0,6522	1658,78	1649,14	0,0512	0,0073
16	1718,58	91,9678	6,2265	1737,86	1697,36	0,781	0,4599
17	2515,18	98,0631	0,1788	2532,54	2499,75	0,2671	0,0146
18	2567,25	98,2205	0,03	2582,68	2565,33	0,1256	-0,0001
19	2706,13	98,3824	0,0591	2723,49	2702,27	0,1437	0,0049
20	2754,35	98,442	0,0475	2763,99	2750,49	0,0902	0,0016
21	2873,94	98,5128	0,0318	2875,86	2868,15	0,0496	0,0006
22	3093,82	97,783	1,2141	3107,32	3080,32	0,154	0,0358