

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111921\
 Data File : VL038084.D
 Acq On : 19 Nov 2021 14:24
 Operator : SY/AP
 Sample : M4704-02DL2 40X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 17-TOTEN-STREETDL2

Quant Time: Nov 22 06:35:49 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Nov 18 13:16:09 2021
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	836946	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.15	114	2352998	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	1941771	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	1444183	10.31	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.10%

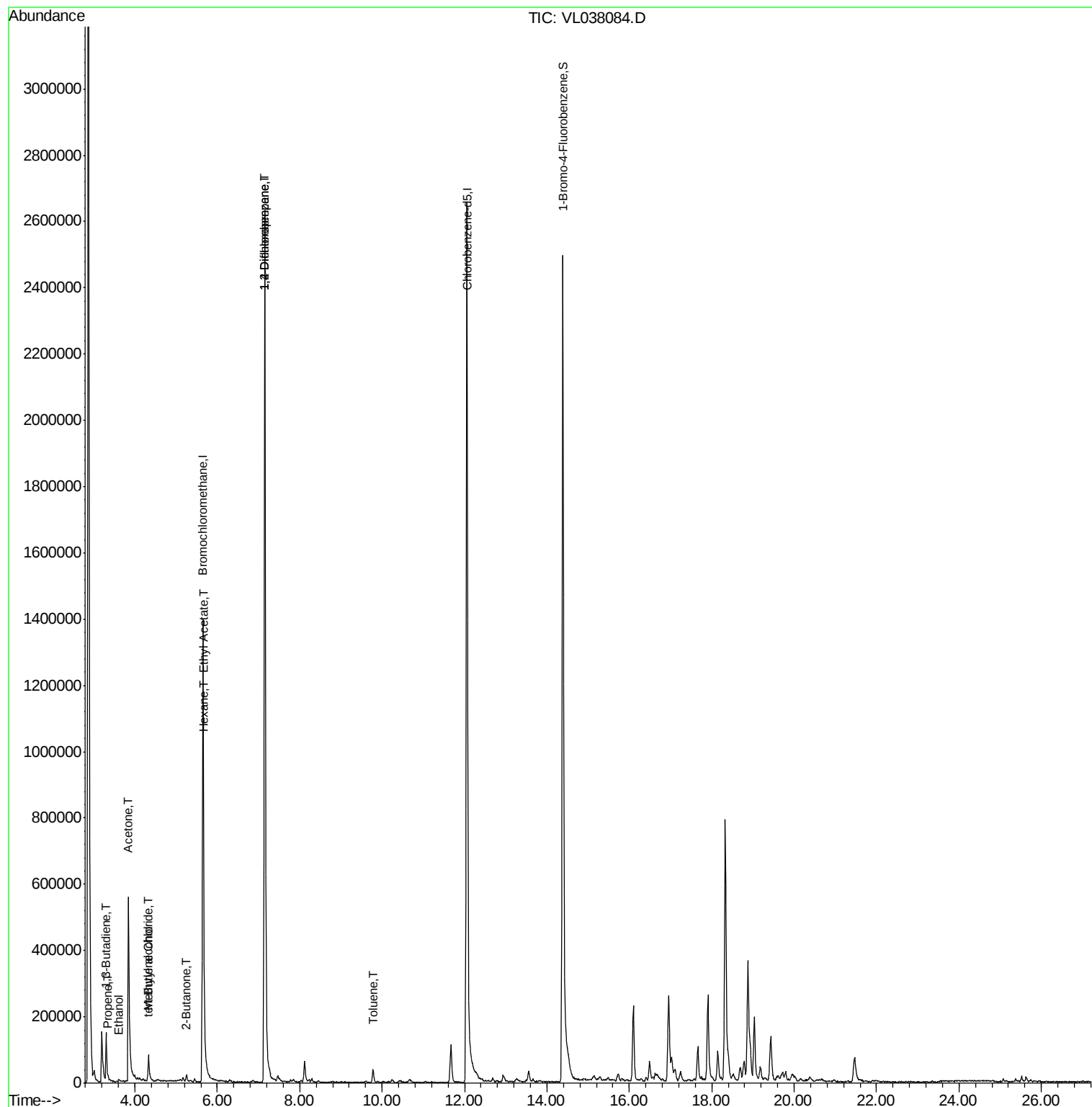
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.34	41	3352	0.052	ppbv	90
13) Ethanol	3.61	45	2353	0.376	ppbv	76
15) Acetone	3.84	43	858336	11.829	ppbv	100
16) 1,3-Butadiene	3.30	39	42699	0.754	ppbv #	17
17) tert-Butyl alcohol	4.31	59	2725	0.031	ppbv #	71
20) Methylene Chloride	4.33	84	28609	0.704	ppbv	91
25) Ethyl Acetate	5.67	43	15436	0.064	ppbv #	76
26) Hexane	5.67	57	11992	0.103	ppbv #	36
34) 2-Butanone	5.25	43	15718	0.166	ppbv #	41
39) 1,2-Dichloropropane	7.15	63	577752	6.417	ppbv #	27
53) Toluene	9.78	91	17203	0.064	ppbv #	31

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: 17-TOTEN-STREETDL2

Acq: 19 Nov 2021 14:24

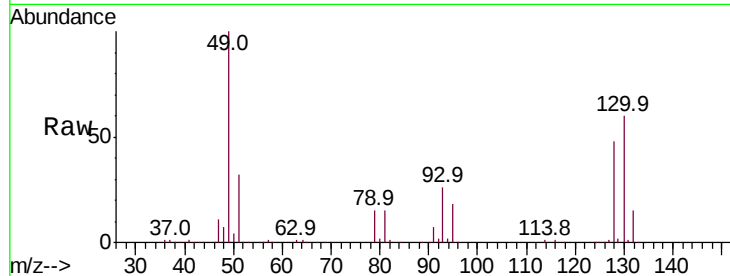
Tot Ion: 49 Resp: 836946

Ion Ratio Lower Upper

49 100

128 49.5 26.5 79.5

130 63.8 32.5 97.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

500000

400000

300000

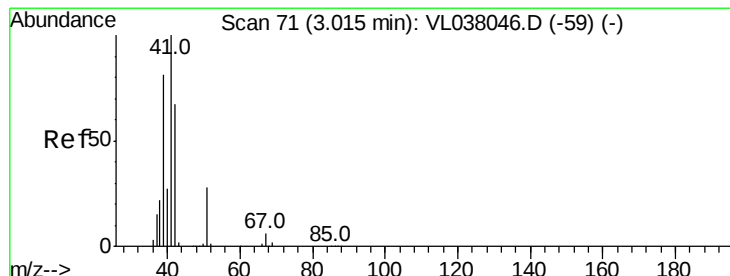
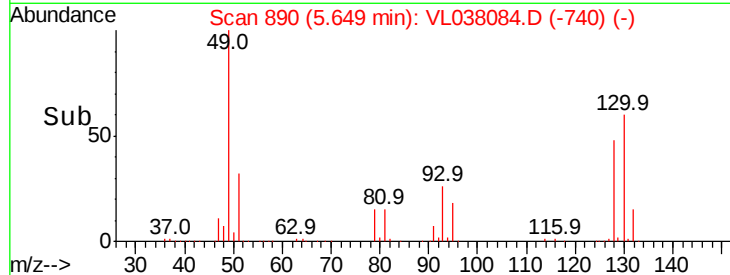
200000

100000

0

5.60 5.65 5.70 5.75

Time-->



#9

Propene

Concen: 0.052 ppbv

RT: 3.34 min Scan# 173

Delta R.T. 0.33 min

Lab File: VL038084.D

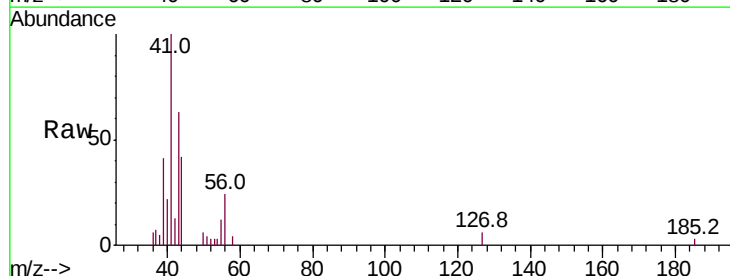
Acq: 19 Nov 2021 14:24

Tgt Ion: 41 Resp: 3352

Ion Ratio Lower Upper

41 100

42 59.3 53.8 80.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

8000

6000

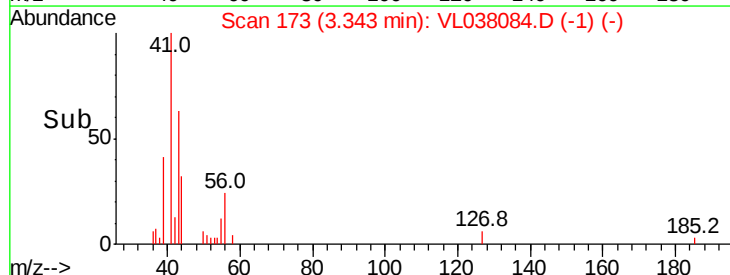
4000

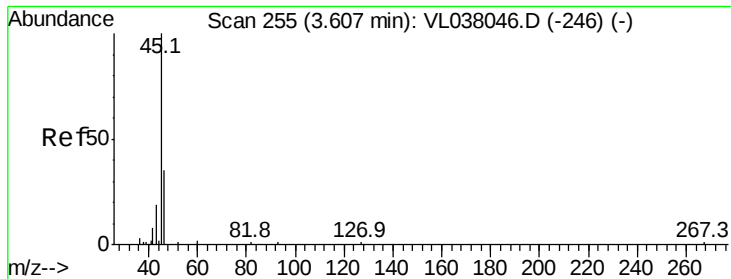
2000

0

3.34 3.34 3.35 3.35

Time-->





#13

Ethanol

Concen: 0.376 ppbv

RT: 3.61

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

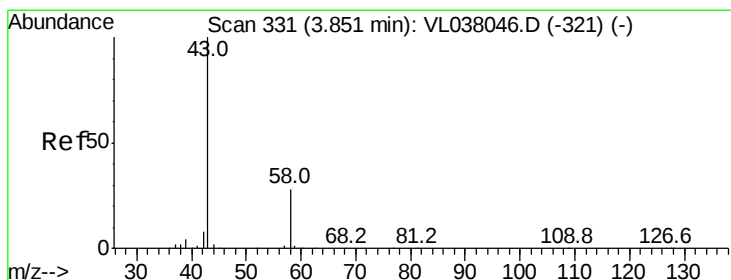
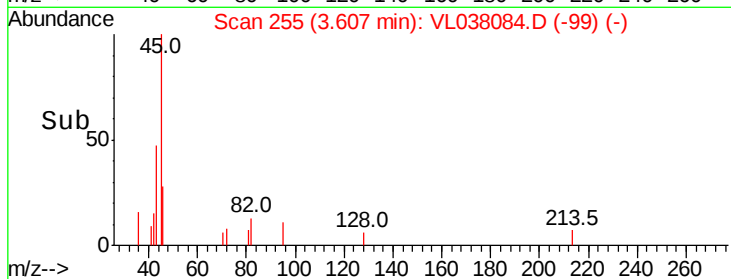
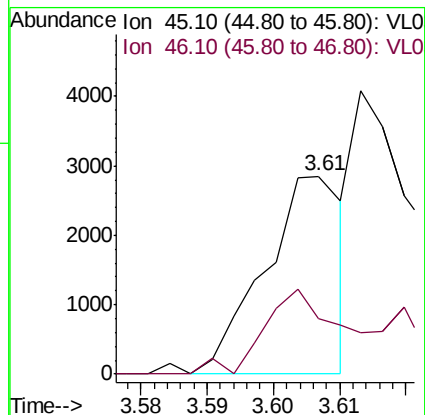
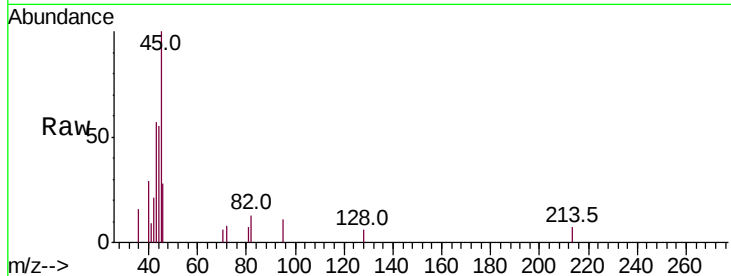
Acq: 19 Nov 2021 14:24

Tot Ion: 45 Resp: 2353

Ion Ratio Lower Upper

45 100

46 59.2 17.6 70.2



#15

Acetone

Concen: 11.829 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL038084.D

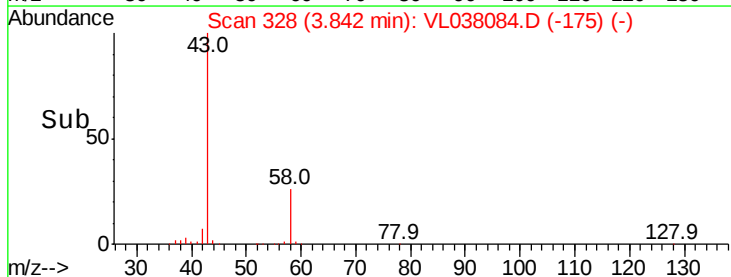
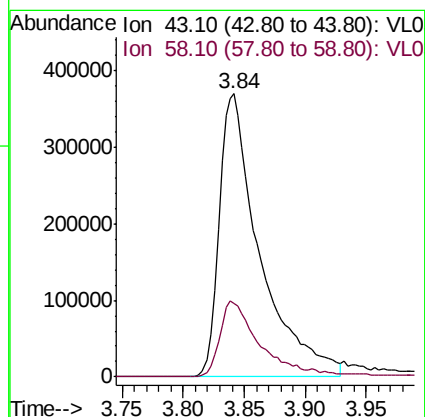
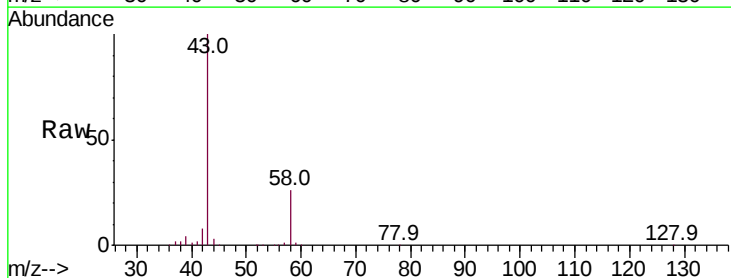
Acq: 19 Nov 2021 14:24

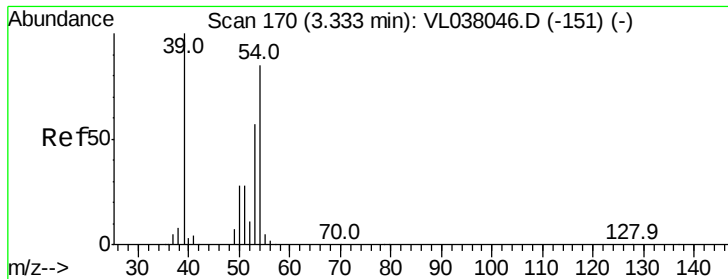
Tgt Ion: 43 Resp: 858336

Ion Ratio Lower Upper

43 100

58 28.1 22.4 33.6





#16

1,3-Butadiene

Concen: 0.754 ppbv

RT: 3.30 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

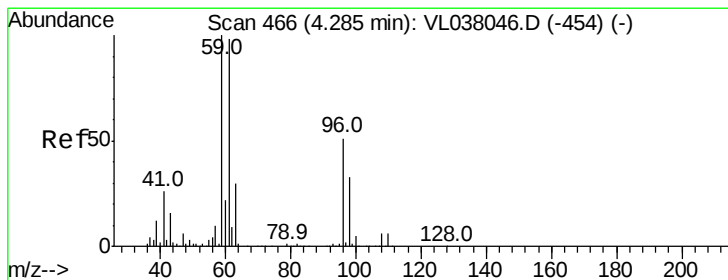
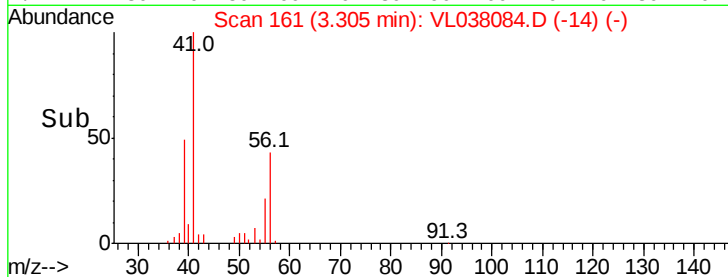
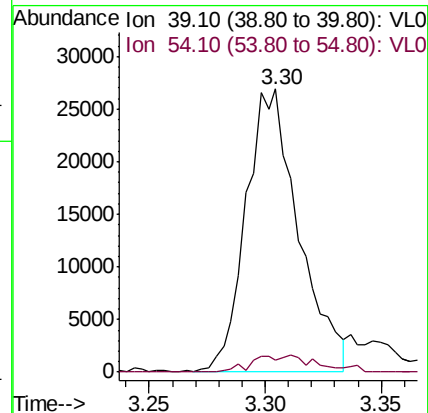
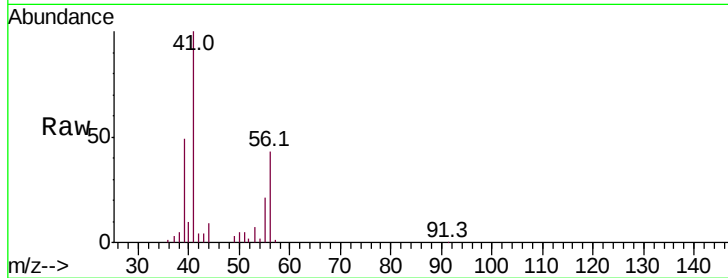
Acq: 19 Nov 2021 14:24

Tot Ion: 39 Resp: 42699

Ion Ratio Lower Upper

39 100

54 7.4 64.4 96.6#



#17

tert-Butyl alcohol

Concen: 0.031 ppbv

RT: 4.31 min Scan# 475

Delta R.T. 0.03 min

Lab File: VL038084.D

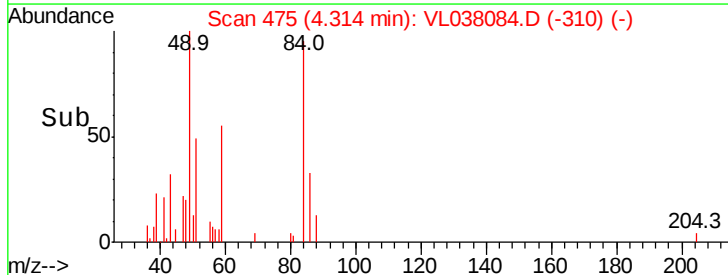
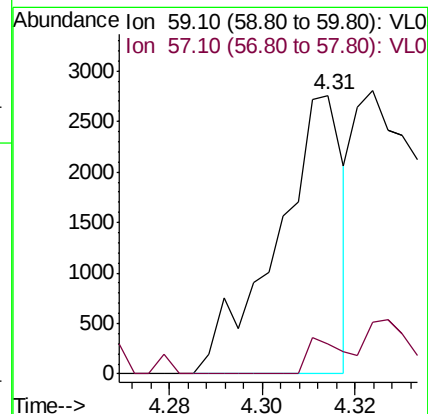
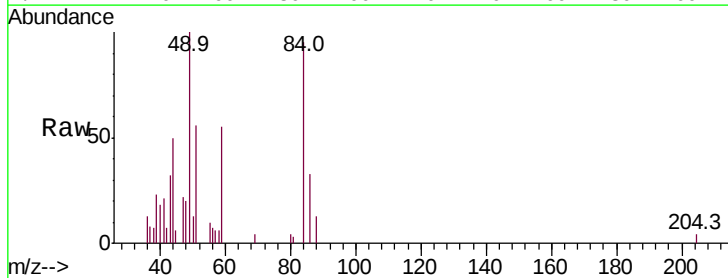
Acq: 19 Nov 2021 14:24

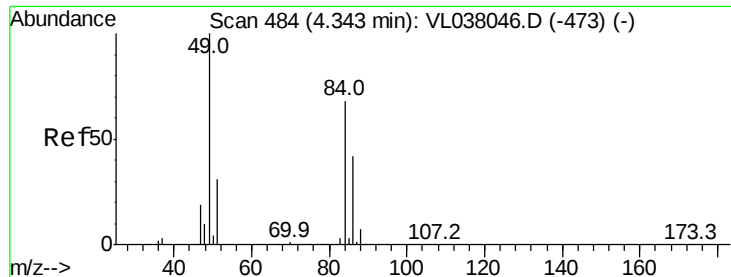
Tgt Ion: 59 Resp: 2725

Ion Ratio Lower Upper

59 100

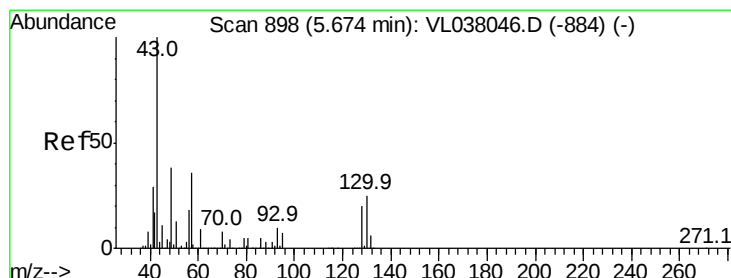
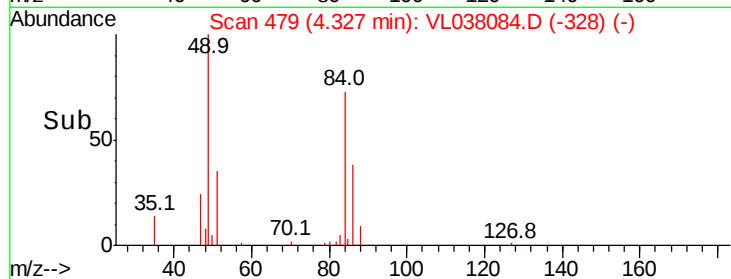
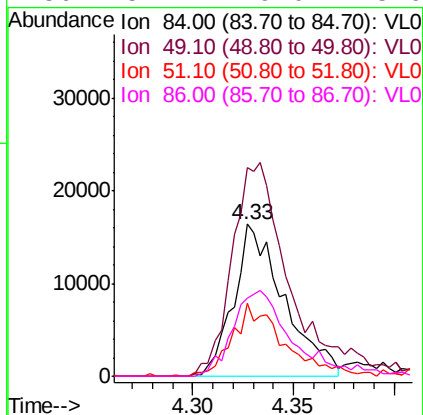
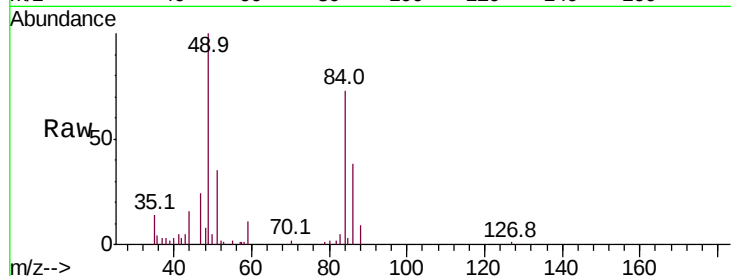
57 0.0 8.6 13.0#





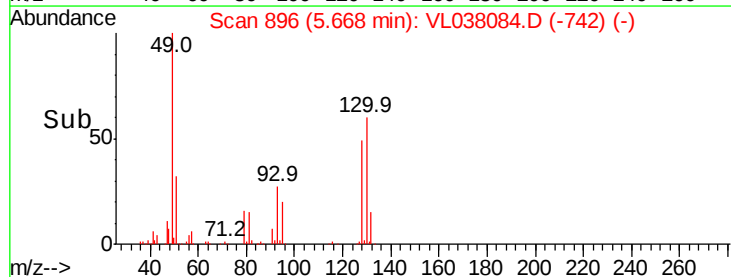
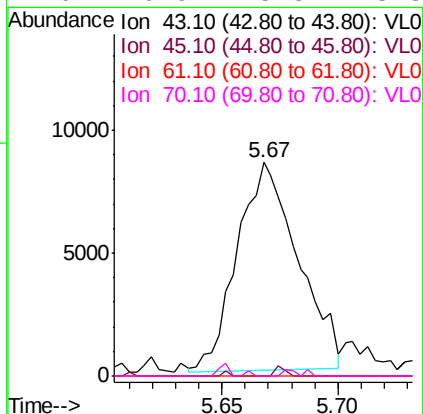
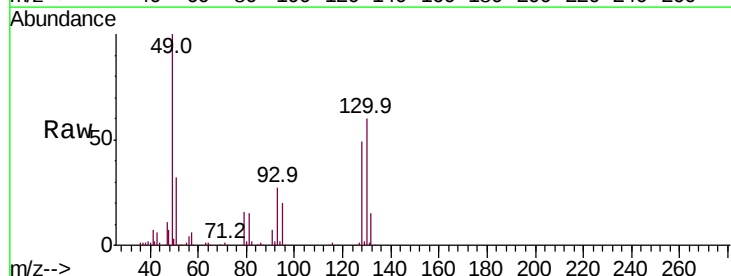
#20
Methylene Chloride
Concen: 0.704 ppbv
RT: 4.33
Delta R.T. MSVOA_1
Lab File: ClientSampleId :
Acq: 19 Nov 2021 14:24

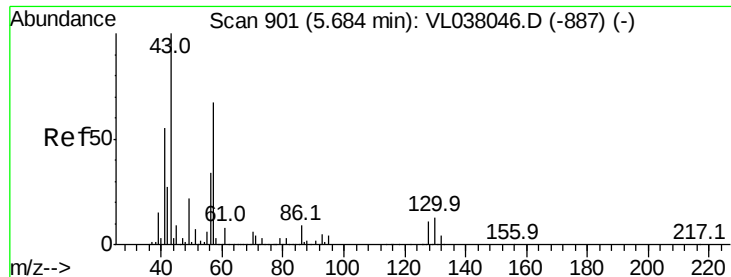
Tot Ion:	84	Resp:	28609
Ion	Ratio	Lower	Upper
84	100		
49	137.1	118.2	177.2
51	48.2	36.8	55.2
86	51.7	49.0	73.6



#25
Ethyl Acetate
Concen: 0.064 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.01 min
Lab File: VL038084.D
Acq: 19 Nov 2021 14:24

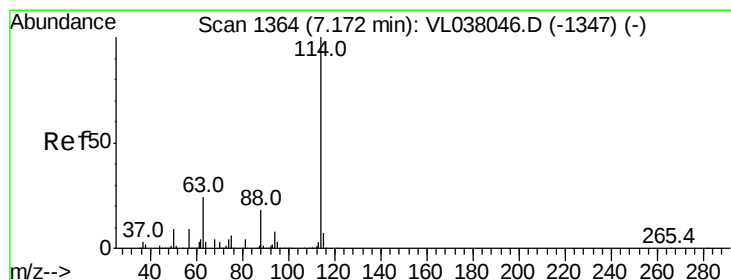
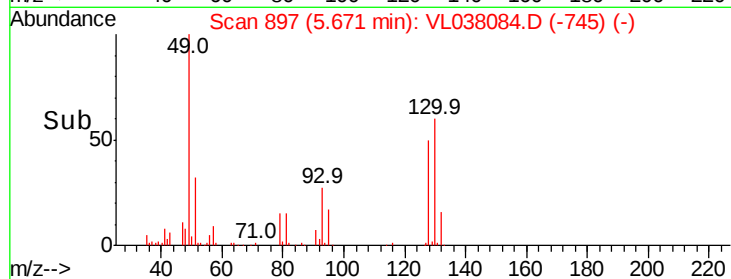
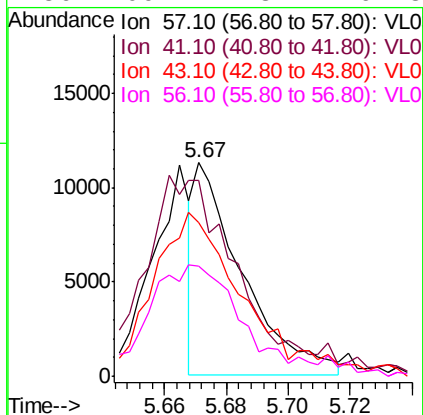
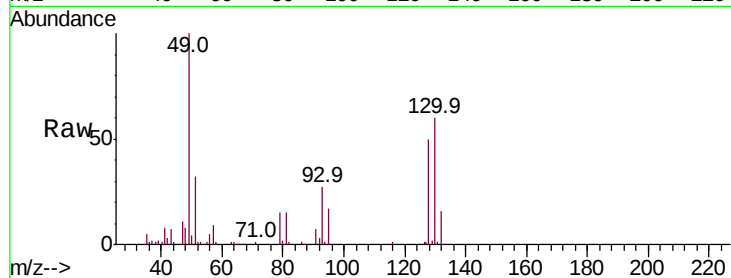
Tgt Ion:	43	Resp:	15436
Ion	Ratio	Lower	Upper
43	100		
45	0.8	7.9	11.9#
61	0.0	7.8	11.6#
70	0.9	5.8	8.8#





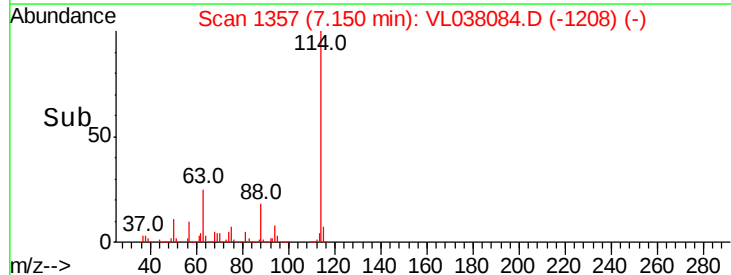
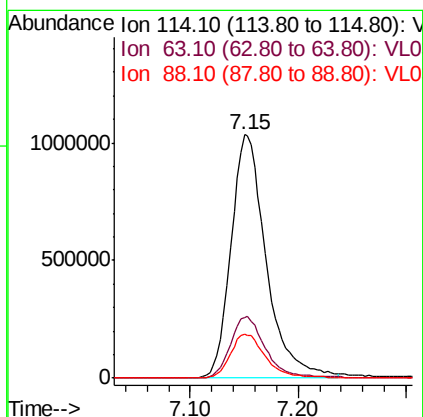
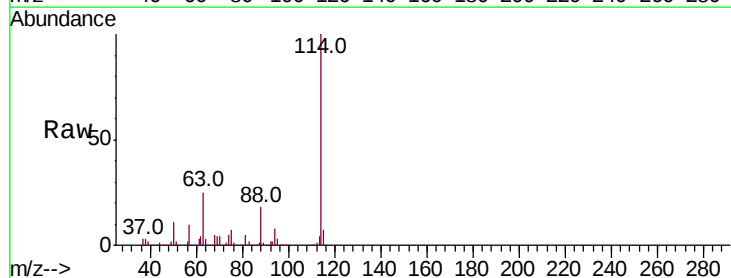
#26
Hexane
Concen: 0.103 ppbv
RT: 5.67
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 19 Nov 2021 14:24

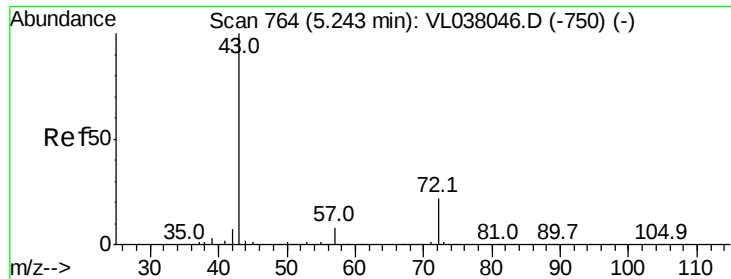
Tot Ion: 57 Resp: 11992
Ion Ratio Lower Upper
57 100
41 0.0 71.4 107.2#
43 140.5 174.6 261.8#
56 109.2 43.2 64.8#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. -0.02 min
Lab File: VL038084.D
Acq: 19 Nov 2021 14:24

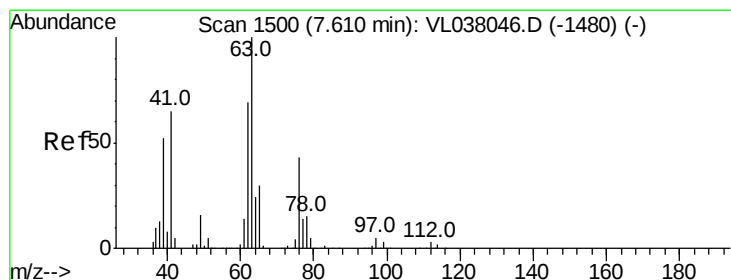
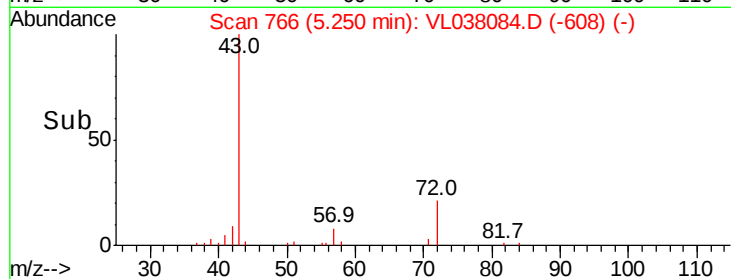
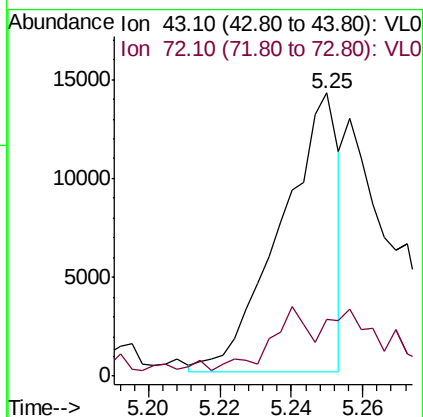
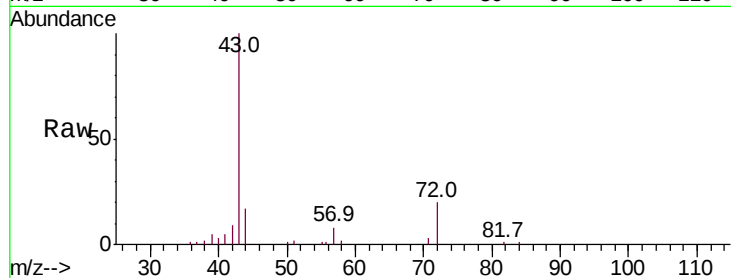
Tgt Ion: 114 Resp: 2352998
Ion Ratio Lower Upper
114 100
63 25.6 19.7 29.5
88 18.4 14.4 21.6





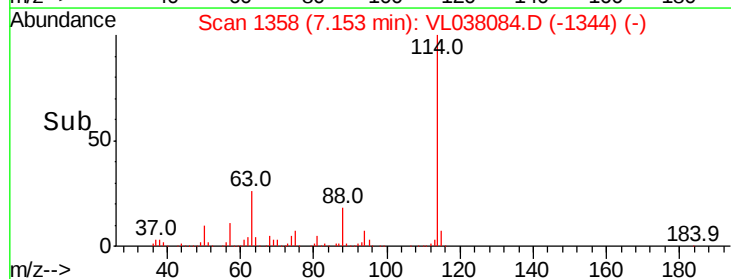
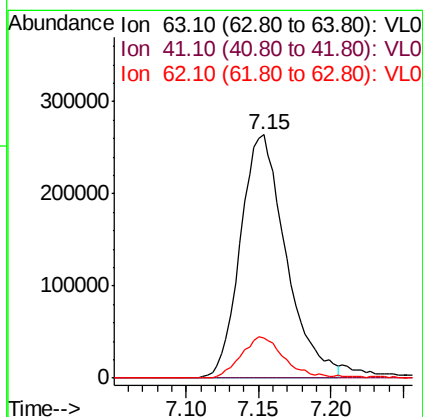
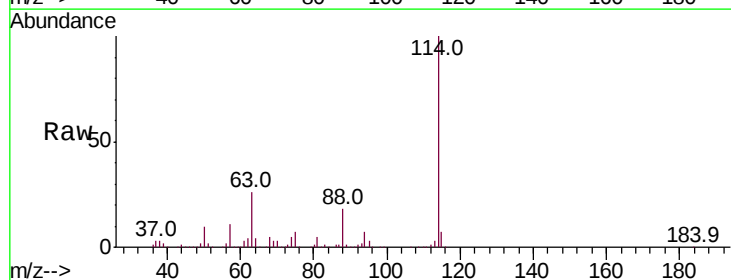
#34
 2-Butanone
 Concen: 0.166 ppbv
 RT: 5.25
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 Acq: 19 Nov 2021 14:24

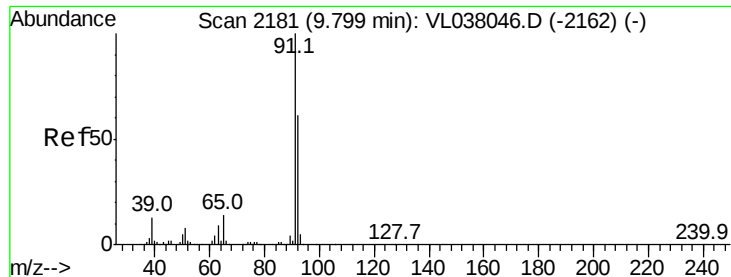
Tot Ion: 43 Resp: 15718
 Ion Ratio Lower Upper
 43 100
 72 52.4 18.8 28.2#



#39
 1,2-Dichloropropane
 Concen: 6.417 ppbv
 RT: 7.15 min Scan# 1358
 Delta R.T. -0.46 min
 Lab File: VL038084.D
 Acq: 19 Nov 2021 14:24

Tgt Ion: 63 Resp: 577752
 Ion Ratio Lower Upper
 63 100
 41 0.0 52.3 78.5#
 62 16.7 55.1 82.7#





#53

Toluene

Concen: 0.064 ppbv

RT: 9.78 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

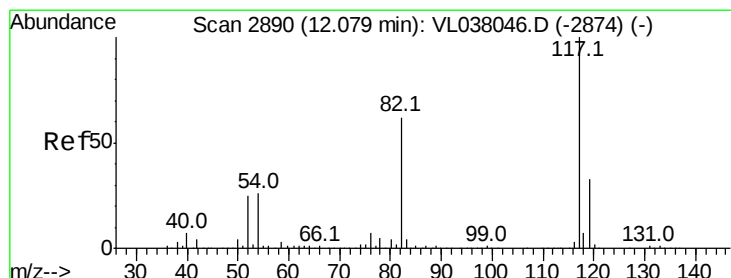
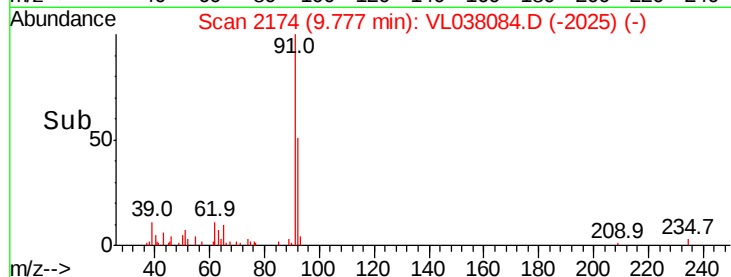
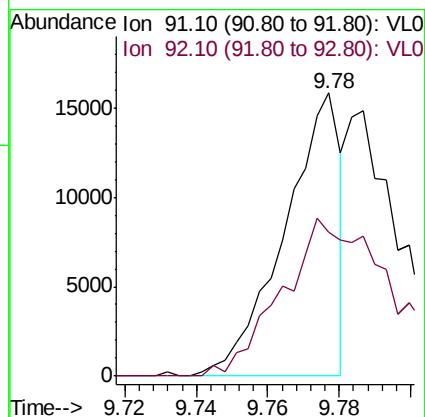
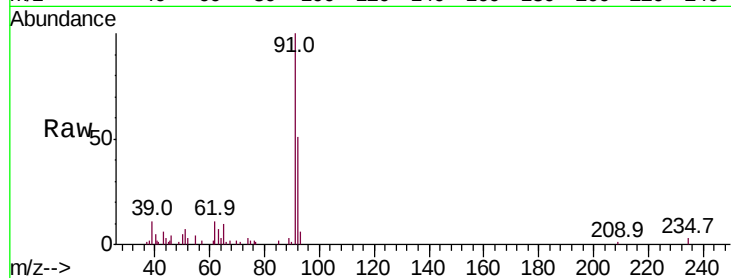
Acq: 19 Nov 2021 14:24 17-TOTEN-STREETDL2

Tot Ion: 91 Resp: 17203

Ion Ratio Lower Upper

91 100

92 114.9 49.7 74.5#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2884

Delta R.T. -0.02 min

Lab File: VL038084.D

Acq: 19 Nov 2021 14:24

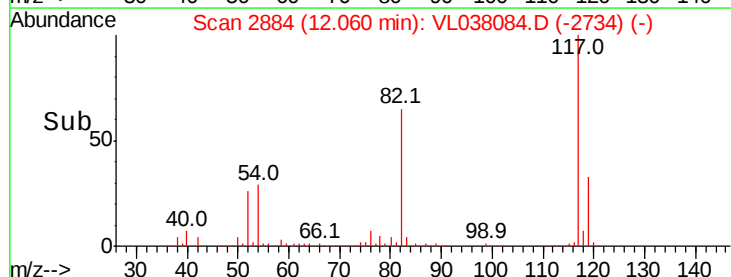
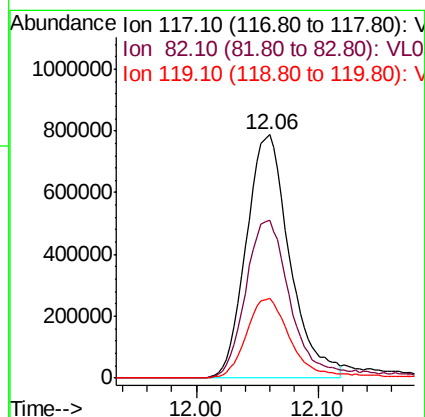
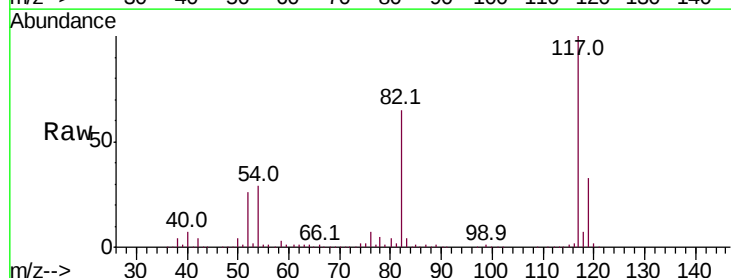
Tgt Ion: 117 Resp: 1941771

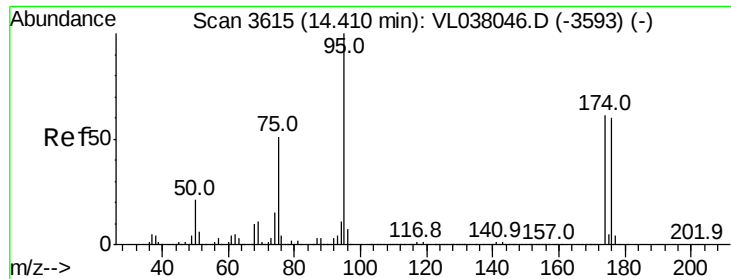
Ion Ratio Lower Upper

117 100

82 71.1 52.8 79.2

119 34.8 26.8 40.2





#68

1-Bromo-4-Fluorobenzene

Concen: 10.311 ppbv

RT: 14.39 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 19 Nov 2021 14:24

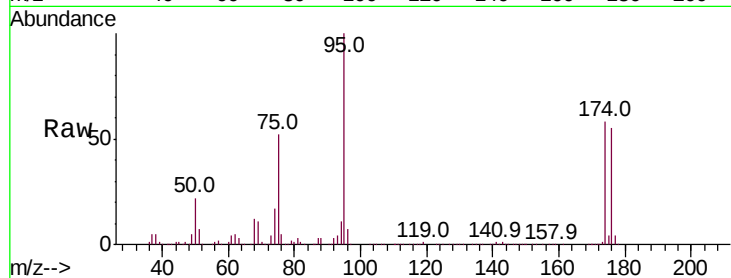
Tot Ion: 95 Resp: 1444183

Ion Ratio Lower Upper

95 100

174 65.9 53.1 79.7

175 4.9 4.0 6.0



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

