

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051322\
 Data File : VL039050.D
 Acq On : 13 May 2022 23:51
 Operator : SY/AP
 Sample : N2812-03DL 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

Quant Time: May 14 00:55:44 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 05 10:12:15 2022
 QLast Update : Thu May 05 10:12:15 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	942848	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.15	114	2306733	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	1914773	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	1460557	9.63	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.30%

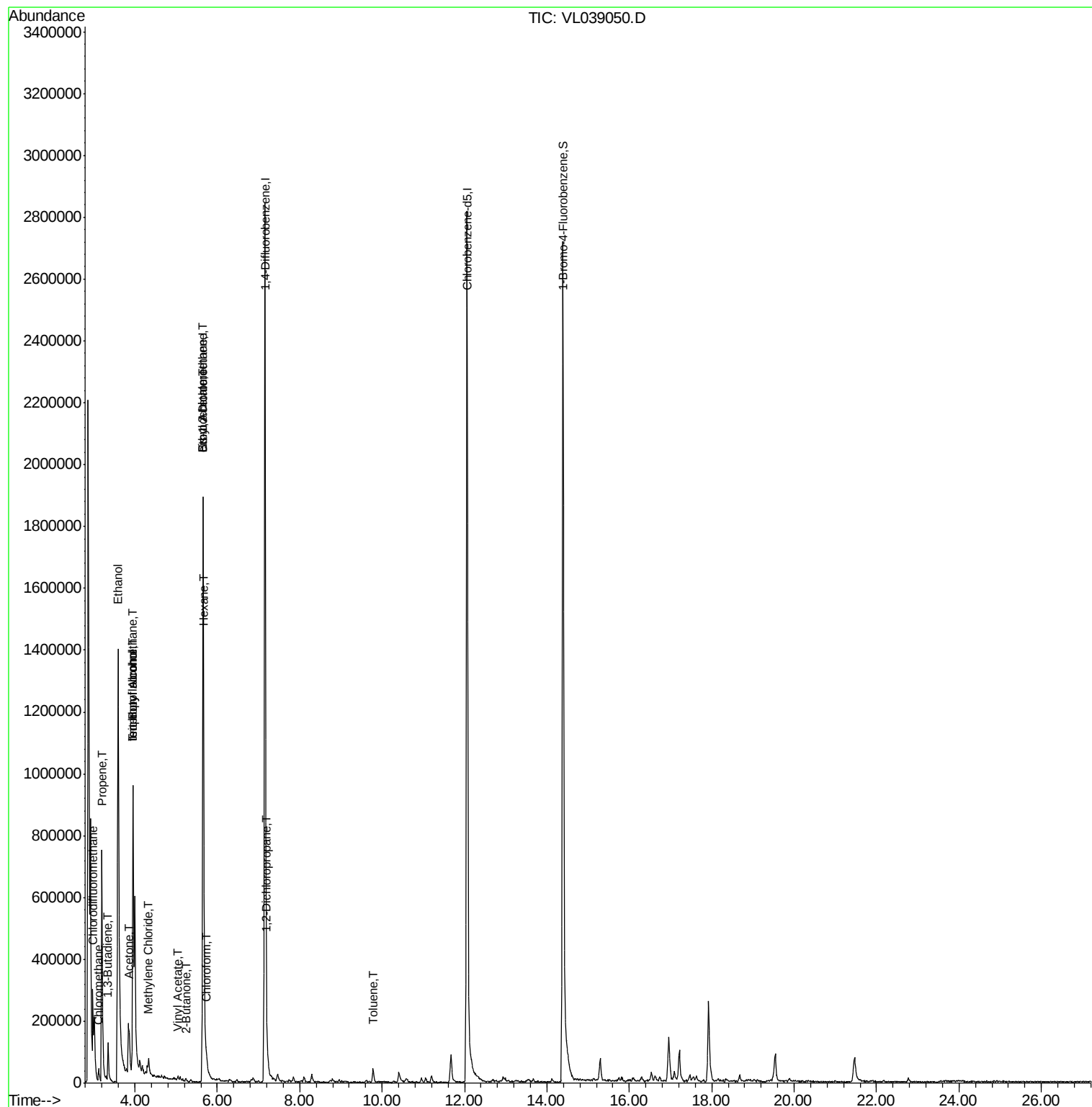
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	352826	3.016	ppbv	95
4) Chloromethane	3.13	50	10533	0.180	ppbv	93
9) Propene	3.20	41	246322	4.821	ppbv	98
11) Trichlorofluoromethane	3.94	101	5108	0.040	ppbv	86
13) Ethanol	3.59	45	2207464	610.519	ppbv	87
15) Acetone	3.84	43	222912	2.506	ppbv	97
16) 1,3-Butadiene	3.35	39	16490	0.323	ppbv #	12
17) tert-Butyl alcohol	3.95	59	39377	0.576	ppbv	97
19) Isopropyl Alcohol	3.95	45	1324285	31.317	ppbv	100
20) Methylene Chloride	4.34	84	18689	0.558	ppbv	92
23) Vinyl Acetate	5.05	43	4915	0.070	ppbv #	79
25) Ethyl Acetate	5.66	43	366283	1.721	ppbv #	87
26) Hexane	5.67	57	10055	0.106	ppbv #	1
29) Chloroform	5.73	83	12223	0.080	ppbv	93
31) cis-1,2-Dichloroethene	5.65	61	20039	0.208	ppbv #	32
34) 2-Butanone	5.24	43	8157	0.069	ppbv #	56
39) 1,2-Dichloropropane	7.20	63	7786	0.101	ppbv #	26
53) Toluene	9.78	91	26482	0.120	ppbv	97

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
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QLast Update : Thu May 05 10:12:15 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_L

Delta R.T. ClientSampleId:

Lab File: IA1DL

Acq: 13 May 2022 23:51

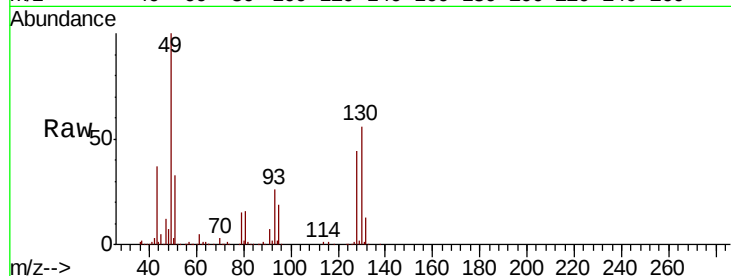
Tot Ion: 49 Resp: 942848

Ion Ratio Lower Upper

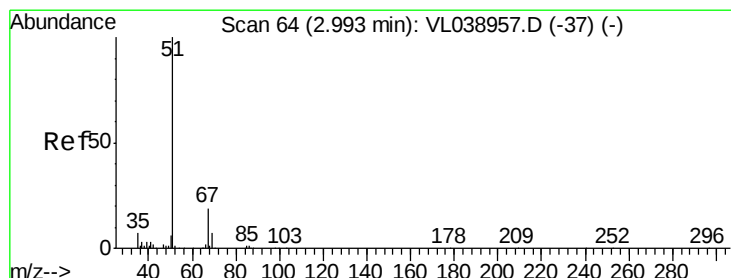
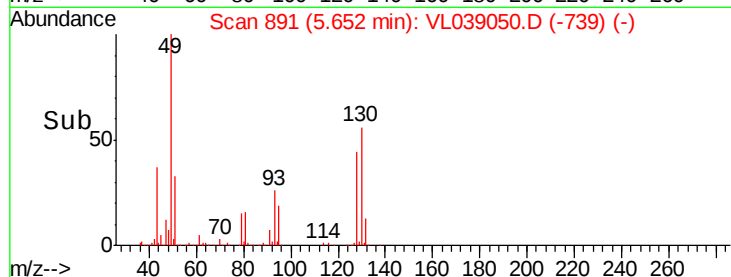
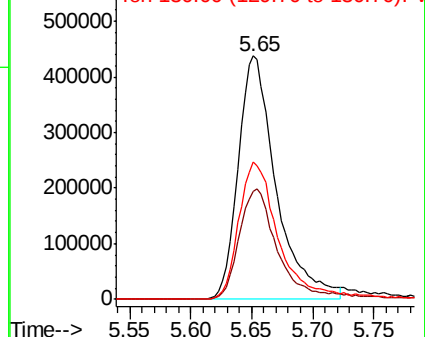
49 100

128 47.4 23.3 69.8

130 61.4 29.8 89.3



Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



#3

Chlorodifluoromethane

Concen: 3.016 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.01 min

Lab File: VL039050.D

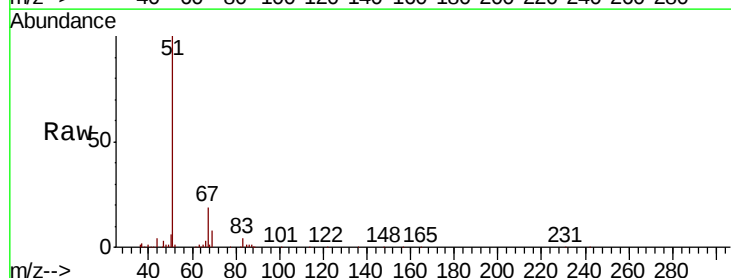
Acq: 13 May 2022 23:51

Tgt Ion: 51 Resp: 352826

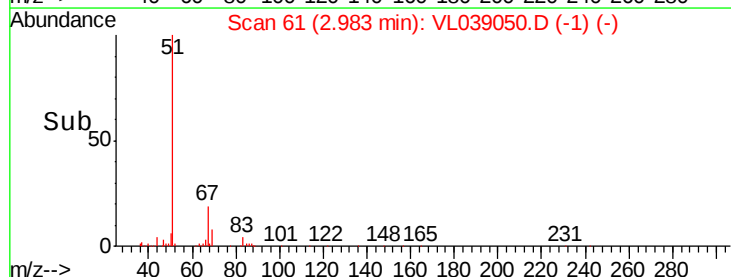
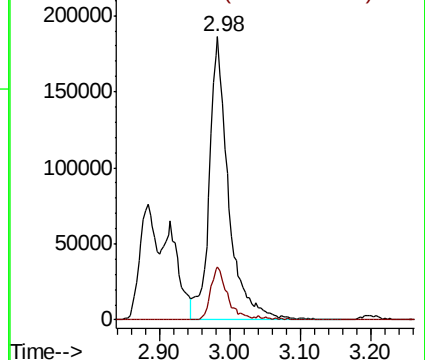
Ion Ratio Lower Upper

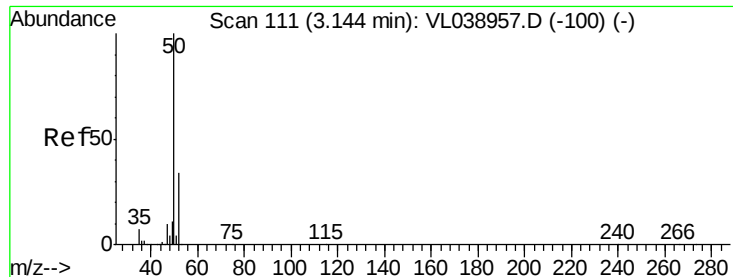
51 100

67 17.3 15.8 23.8



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.180 ppbv

RT: 3.13

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

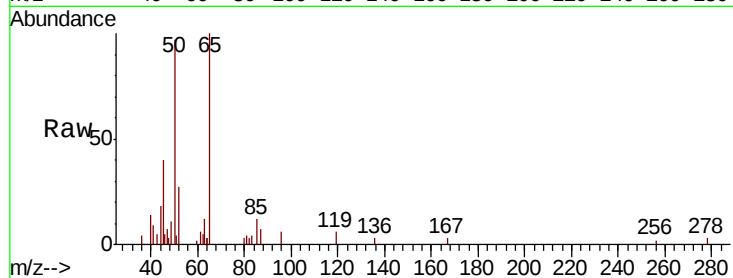
Acq: 13 May 2022 23:51

Tot Ion: 50 Resp: 10533

Ion Ratio Lower Upper

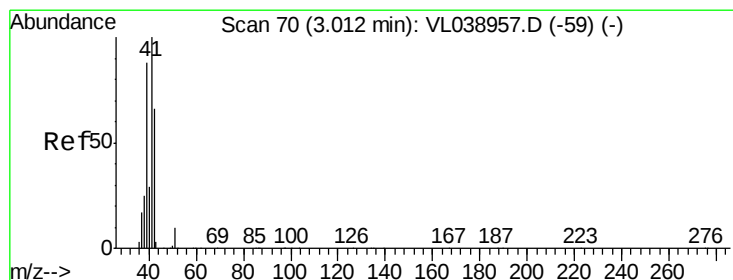
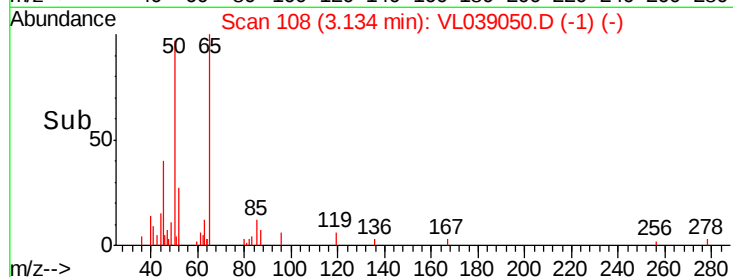
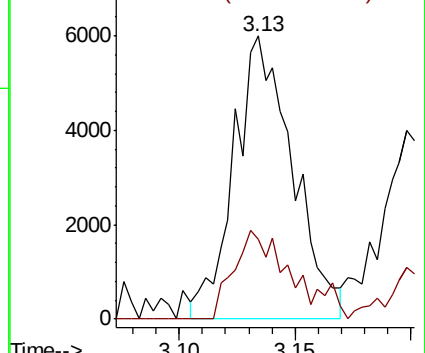
50 100

52 30.2 27.3 40.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 4.821 ppbv

RT: 3.20 min Scan# 128

Delta R.T. 0.19 min

Lab File: VL039050.D

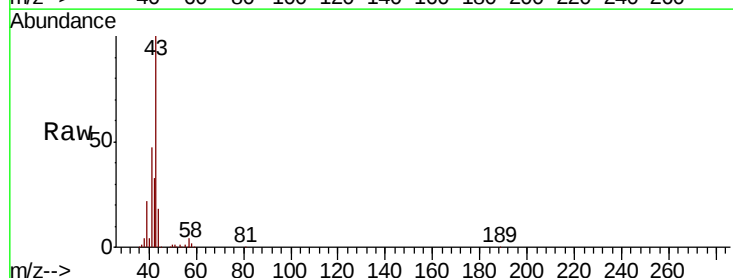
Acq: 13 May 2022 23:51

Tgt Ion: 41 Resp: 246322

Ion Ratio Lower Upper

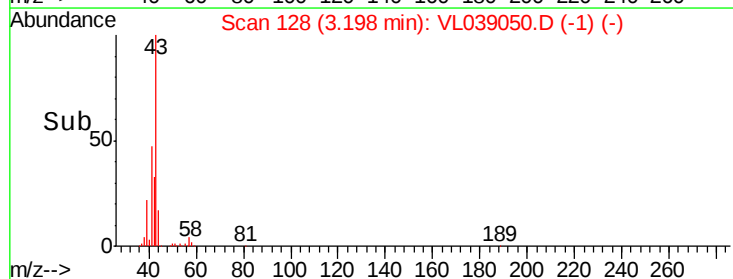
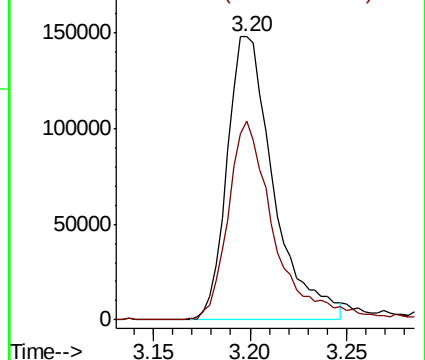
41 100

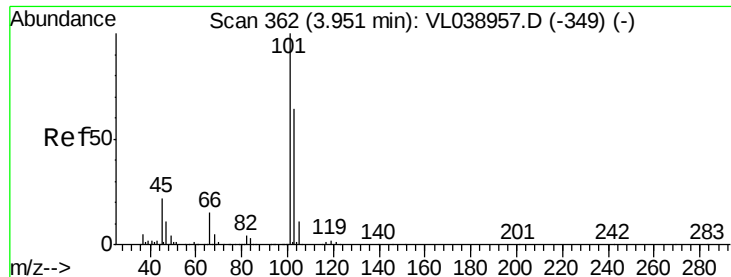
42 70.9 58.3 87.5



Abundance Ion 41.10 (40.80 to 41.80): VL0

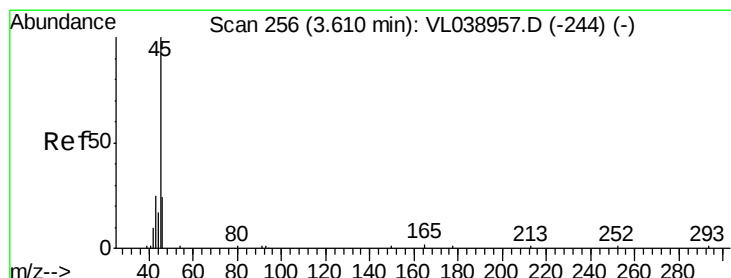
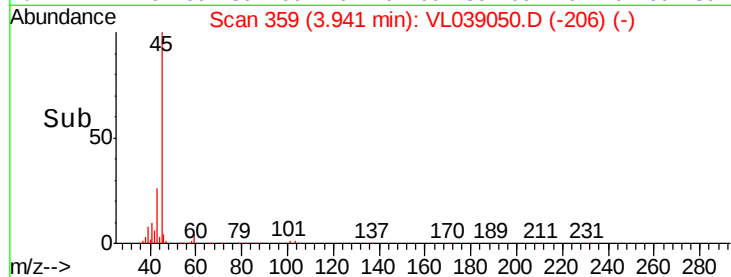
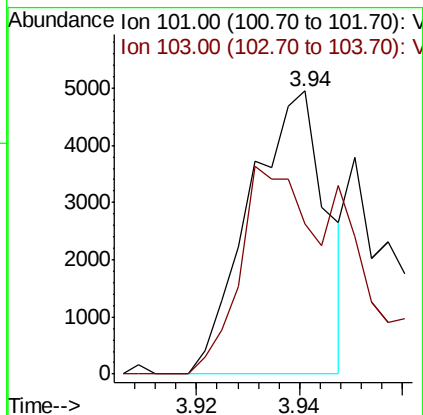
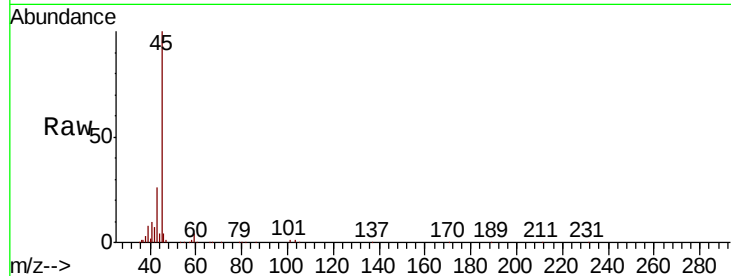
Ion 42.10 (41.80 to 42.80): VL0





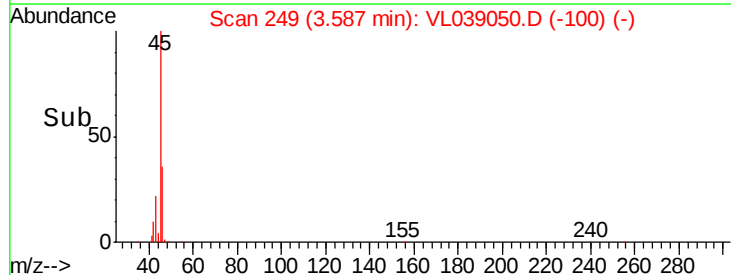
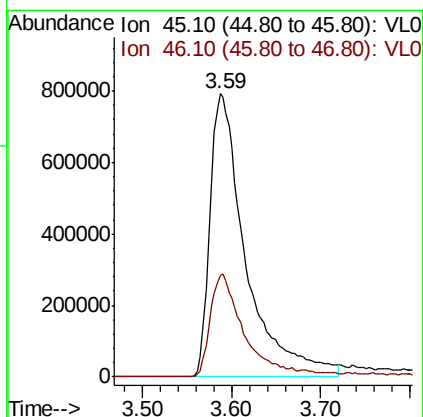
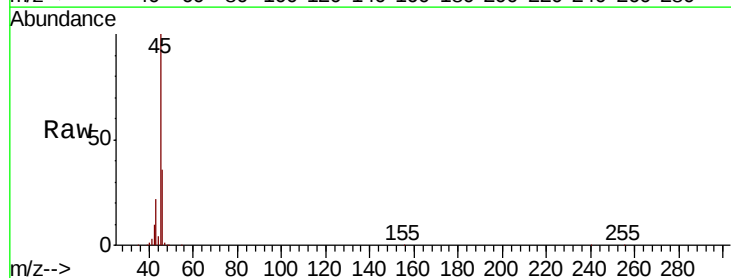
#11
 Trichlorofluoromethane
 Concen: 0.040 ppbv
 RT: 3.94
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 13 May 2022 23:51

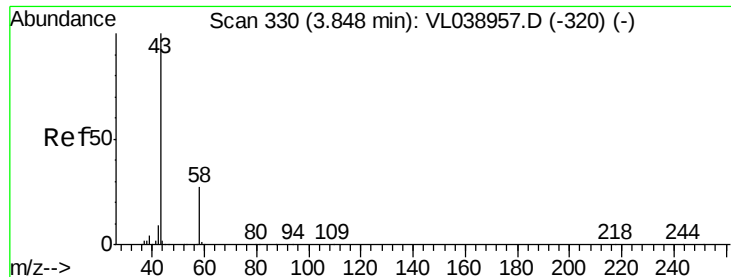
Tot Ion: 101 Resp: 5108
 Ion Ratio Lower Upper
 101 100
 103 53.2 51.5 77.3



#13
 Ethanol
 Concen: 610.519 ppbv
 RT: 3.59 min Scan# 249
 Delta R.T. -0.02 min
 Lab File: VL039050.D
 Acq: 13 May 2022 23:51

Tgt Ion: 45 Resp: 2207464
 Ion Ratio Lower Upper
 45 100
 46 36.8 18.0 72.2





#15

Acetone

Concen: 2.506 ppbv

RT: 3.84 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

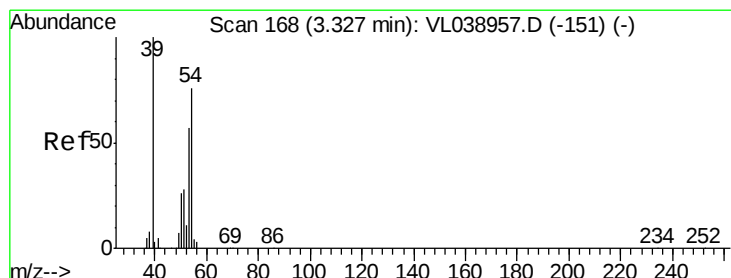
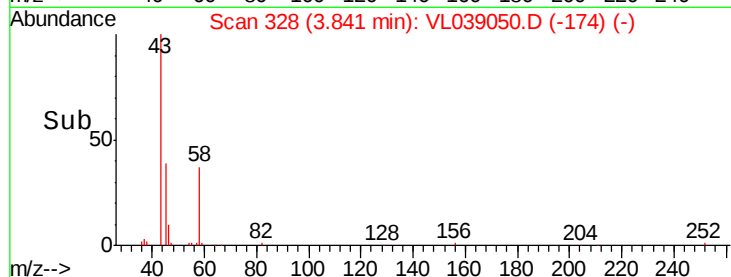
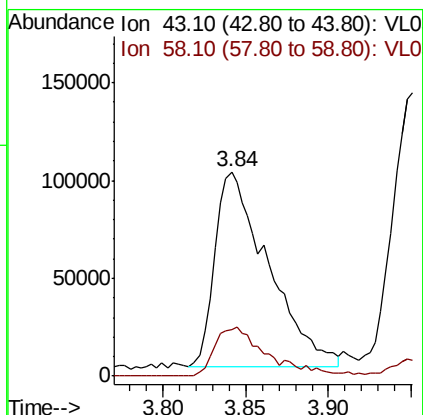
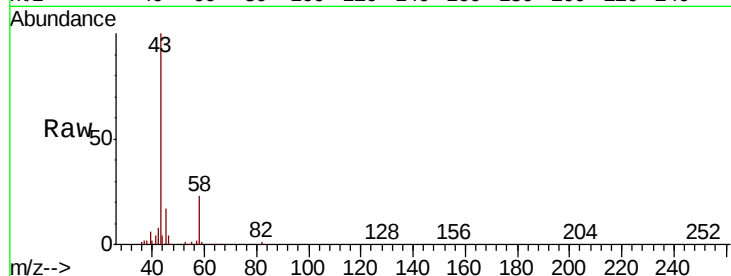
Acq: 13 May 2022 23:51

Tot Ion: 43 Resp: 222912

Ion Ratio Lower Upper

43 100

58 25.2 21.3 31.9



#16

1,3-Butadiene

Concen: 0.323 ppbv

RT: 3.35 min Scan# 175

Delta R.T. 0.02 min

Lab File: VL039050.D

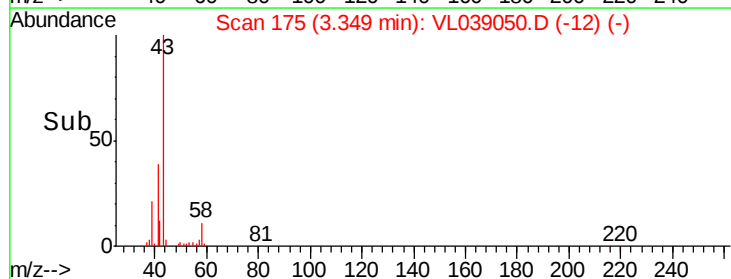
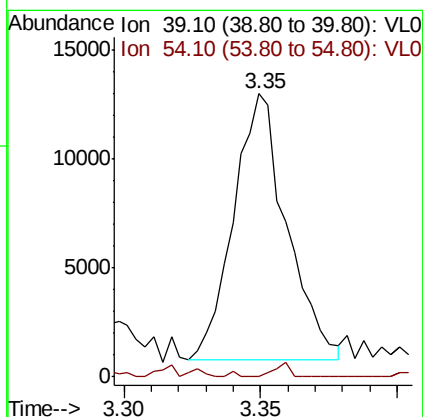
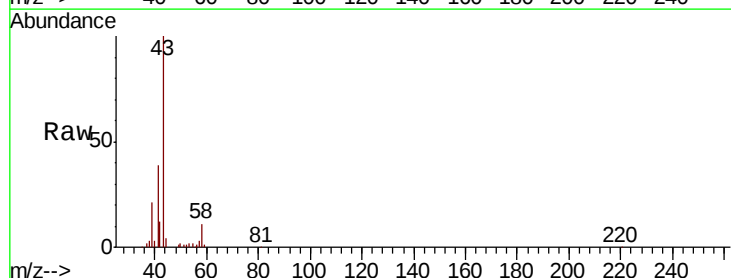
Acq: 13 May 2022 23:51

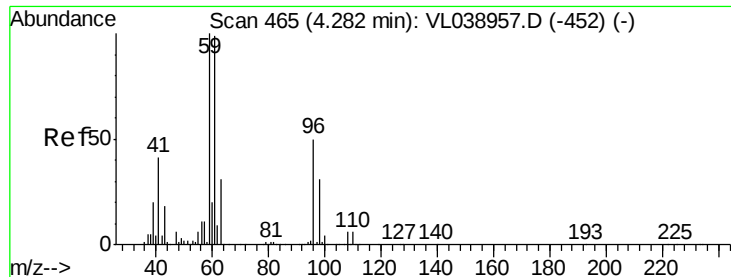
Tgt Ion: 39 Resp: 16490

Ion Ratio Lower Upper

39 100

54 2.7 65.2 97.8#





#17

tert-Butyl alcohol

Concen: 0.576 ppbv

RT: 3.95 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

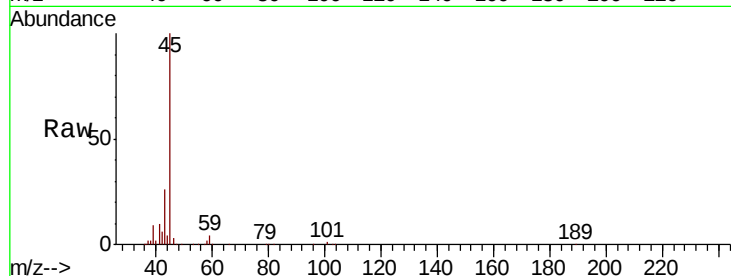
Acq: 13 May 2022 23:51

Tot Ion: 59 Resp: 39377

Ion Ratio Lower Upper

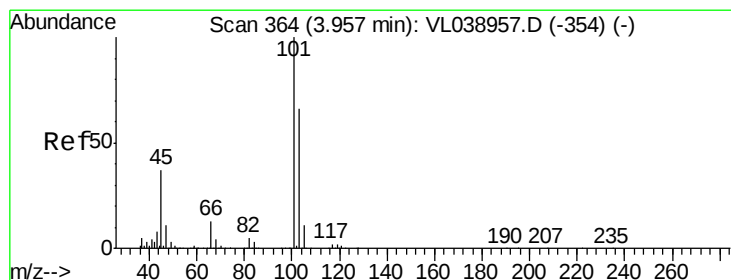
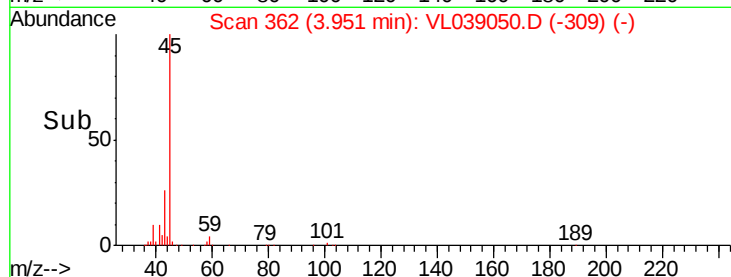
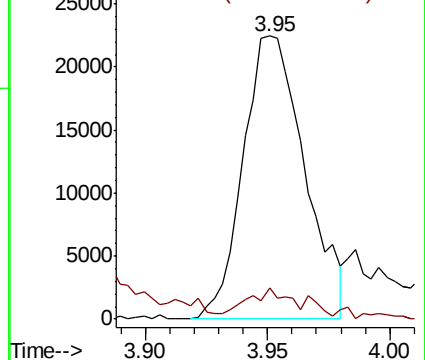
59 100

57 10.5 9.2 13.8



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#19

Isopropyl Alcohol

Concen: 31.317 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.01 min

Lab File: VL039050.D

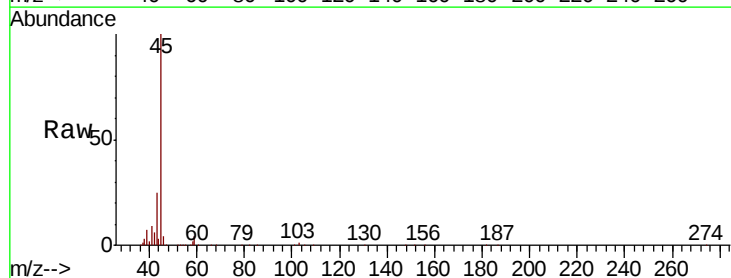
Acq: 13 May 2022 23:51

Tgt Ion: 45 Resp: 1324285

Ion Ratio Lower Upper

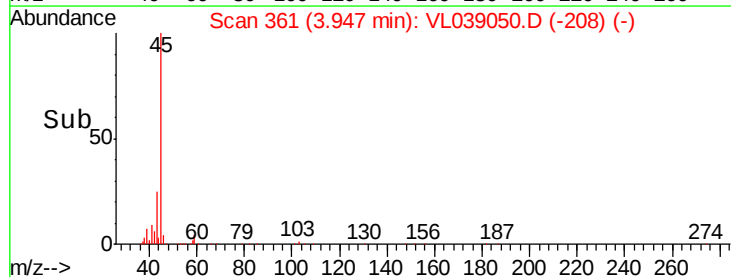
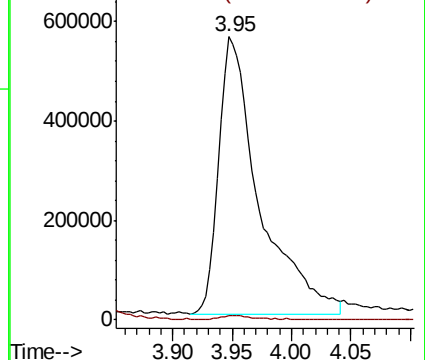
45 100

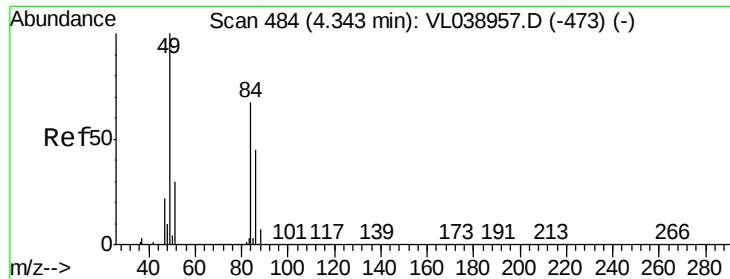
58 1.7 1.4 2.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

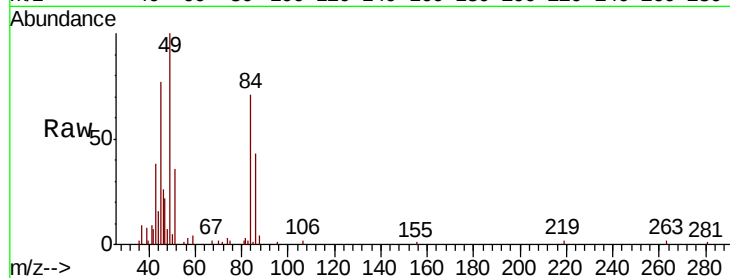
Ion 58.10 (57.80 to 58.80): VL0



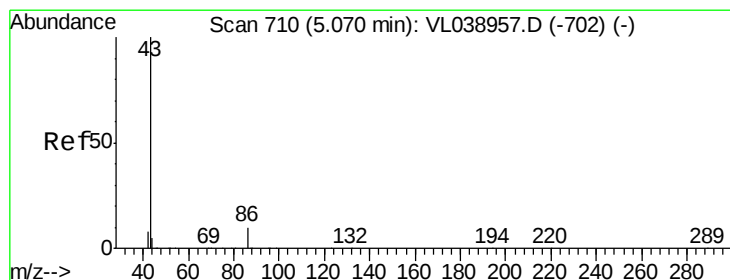
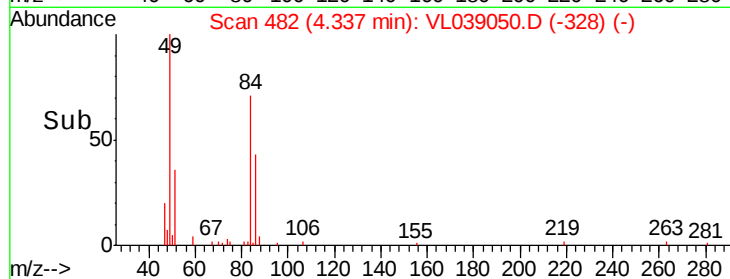
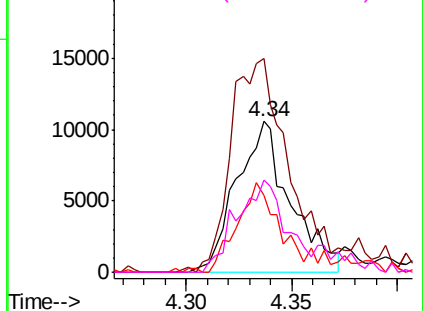


#20
Methvlene Chloride
Concen: 0.558 ppbv
RT: 4.34
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 13 May 2022 23:51

Tot Ion:	84	Resp:	18689
Ion	Ratio	Lower	Upper
84	100		
49	138.2	119.9	179.9
51	48.7	35.7	53.5
86	61.5	53.8	80.6

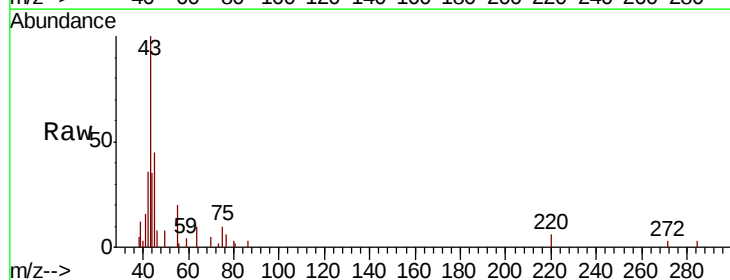


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

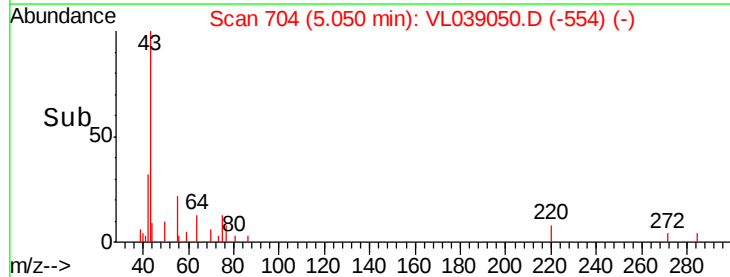
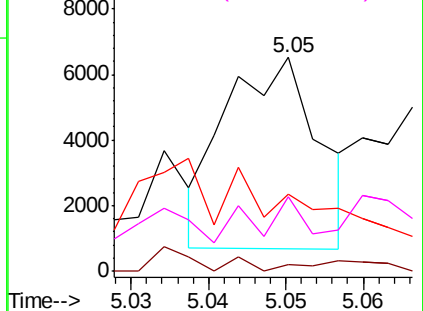


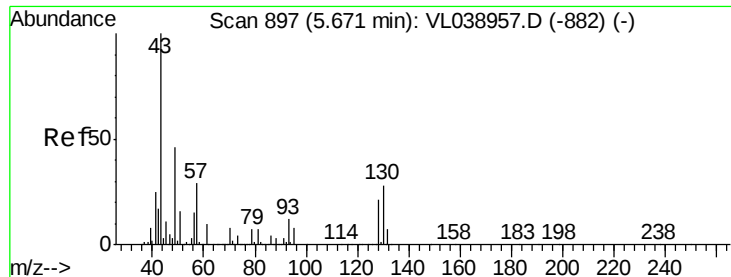
#23
Vinyl Acetate
Concen: 0.070 ppbv
RT: 5.05 min Scan# 704
Delta R.T. -0.02 min
Lab File: VL039050.D
Acq: 13 May 2022 23:51

Tgt Ion:	43	Resp:	4915
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.6	9.8#
42	10.6	8.1	12.1
44	25.2	3.5	5.3#



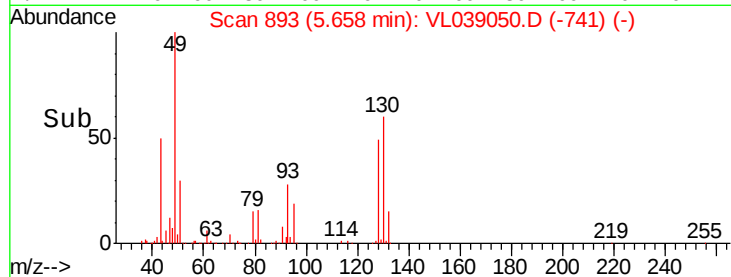
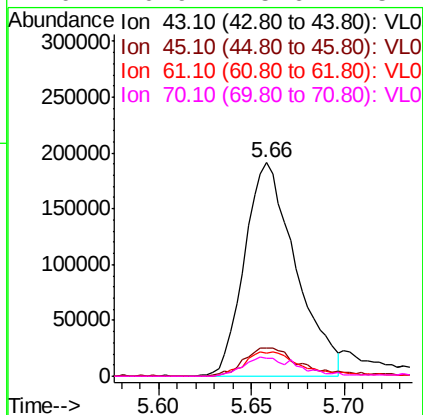
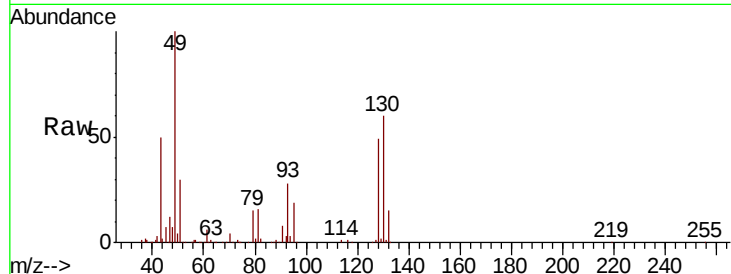
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0





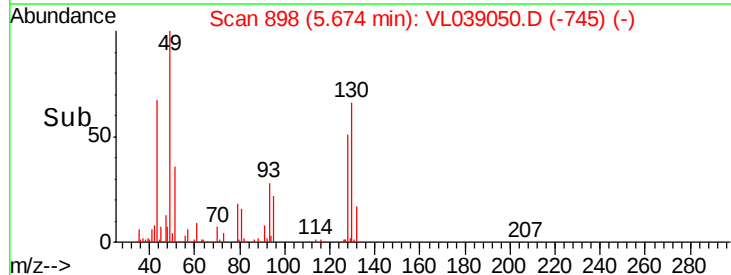
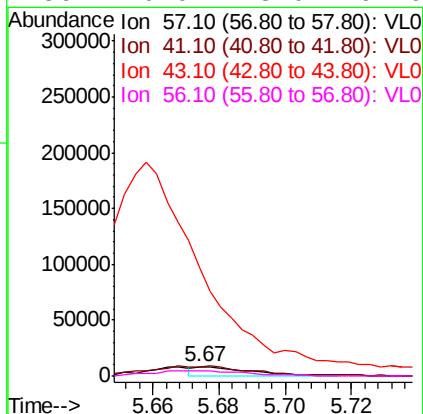
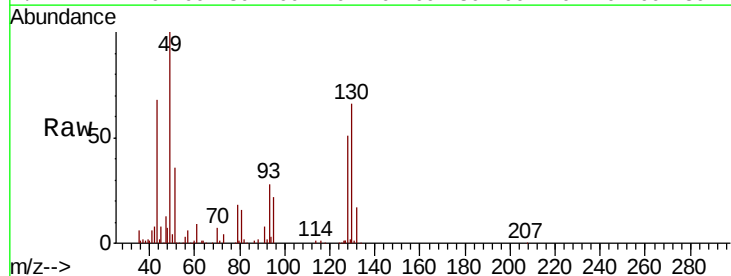
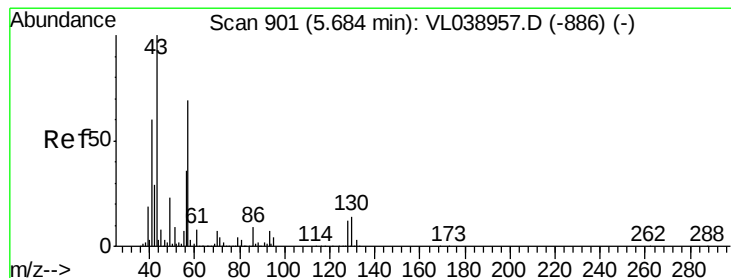
#25
Ethyl Acetate
Concen: 1.721 ppbv
RT: 5.66
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 13 May 2022 23:51

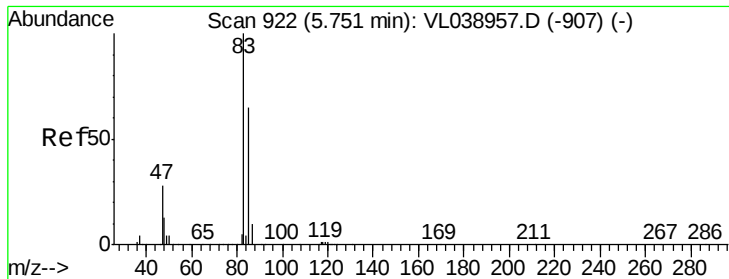
Tot Ion:	43	Resp:	366283
Ion	Ratio	Lower	Upper
43	100		
45	16.3	8.1	12.1#
61	13.6	7.8	11.6#
70	10.9	5.6	8.4#



#26
Hexane
Concen: 0.106 ppbv
RT: 5.67 min Scan# 898
Delta R.T.: -0.01 min
Lab File: VL039050.D
Acq: 13 May 2022 23:51

Tgt Ion:	57	Resp:	10055
Ion	Ratio	Lower	Upper
57	100		
41	0.0	75.2	112.8#
43	0.0	190.8	286.2#
56	0.0	43.0	64.6#





#29

Chloroform

Concen: 0.080 ppbv

RT: 5.73 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

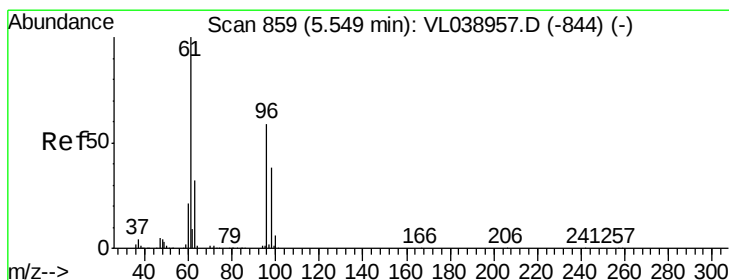
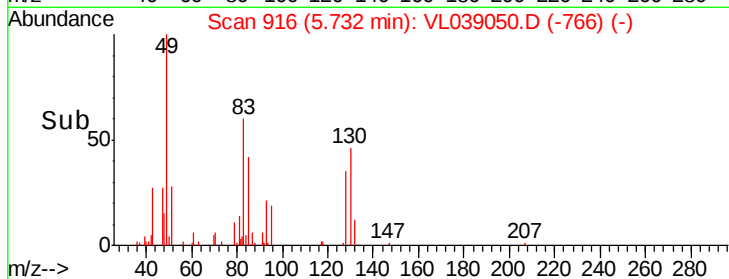
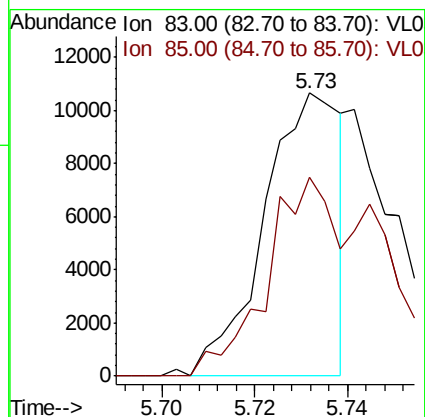
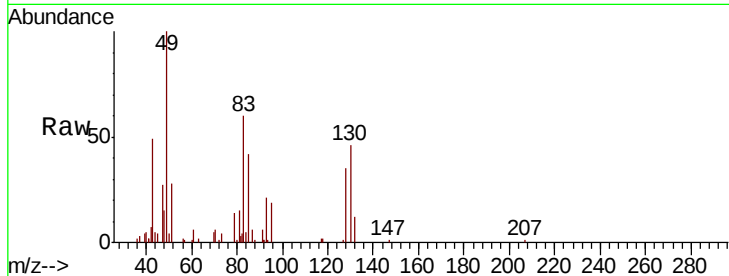
Acq: 13 May 2022 23:51

Tot Ion: 83 Resp: 12223

Ion Ratio Lower Upper

83 100

85 70.4 51.8 77.6



#31

cis-1,2-Dichloroethene

Concen: 0.208 ppbv

RT: 5.65 min Scan# 892

Delta R.T. 0.11 min

Lab File: VL039050.D

Acq: 13 May 2022 23:51

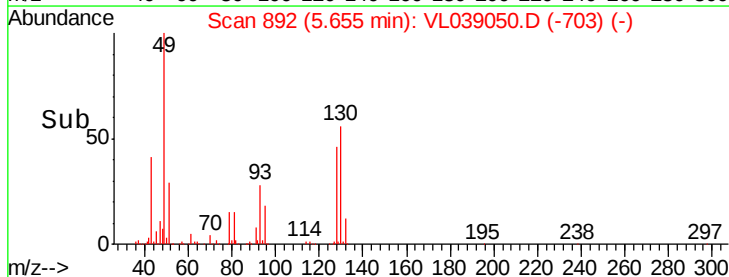
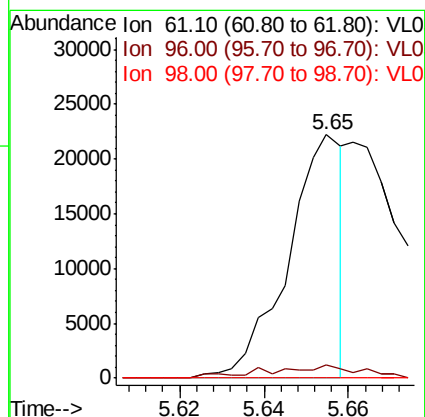
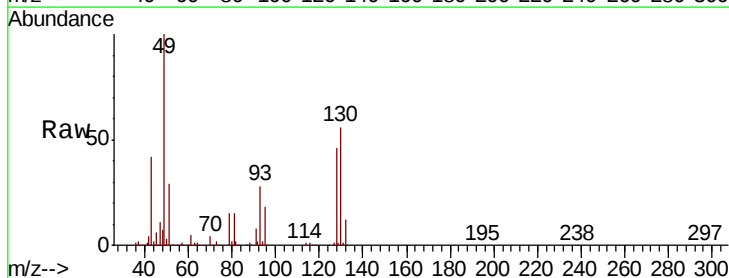
Tgt Ion: 61 Resp: 20039

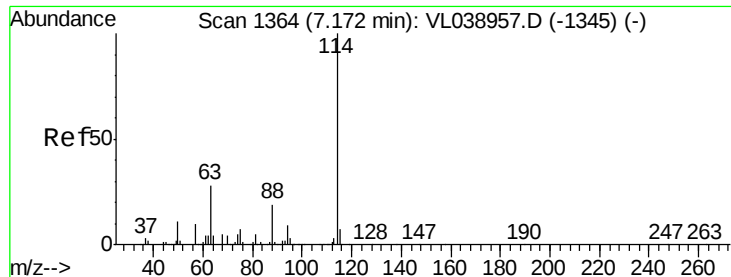
Ion Ratio Lower Upper

61 100

96 5.5 47.4 71.0#

98 0.0 30.6 45.8#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.15 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 May 2022 23:51

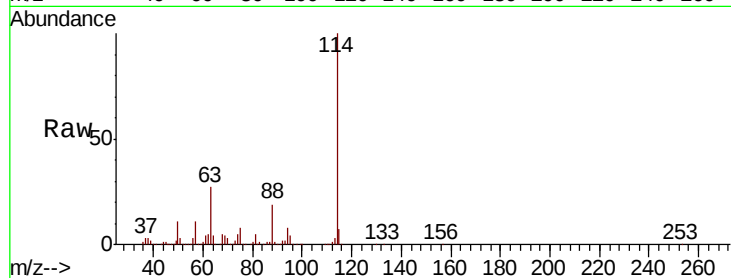
Tot Ion:114 Resp: 2306733

Ion Ratio Lower Upper

114 100

63 27.4 22.6 33.8

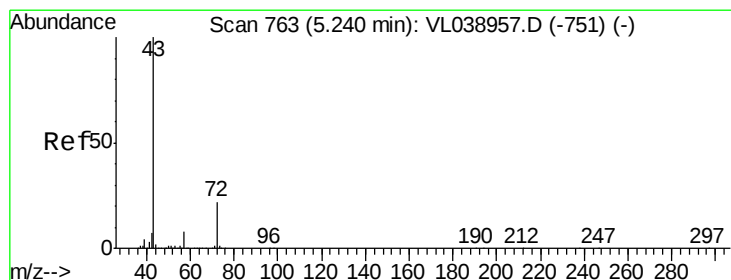
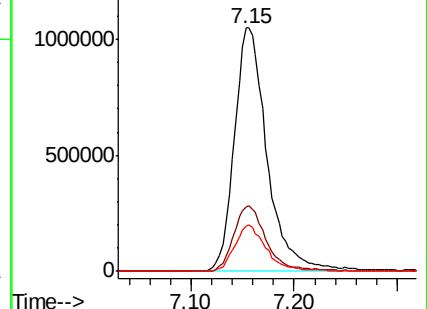
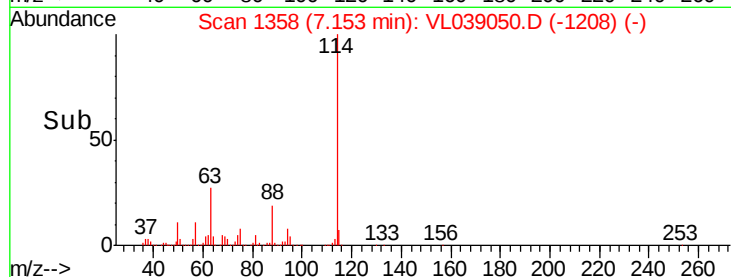
88 18.9 15.4 23.0



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.069 ppbv

RT: 5.24 min Scan# 762

Delta R.T. -0.00 min

Lab File: VL039050.D

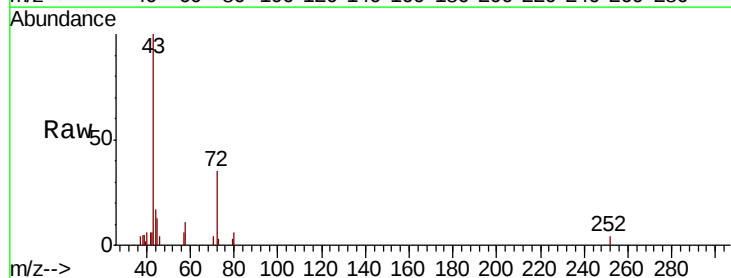
Acq: 13 May 2022 23:51

Tgt Ion: 43 Resp: 8157

Ion Ratio Lower Upper

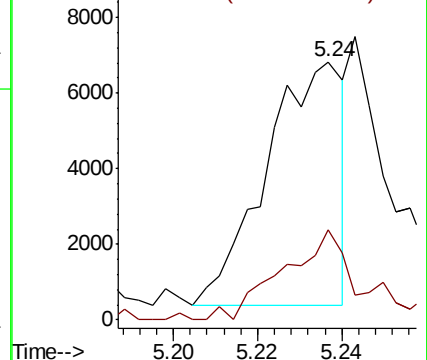
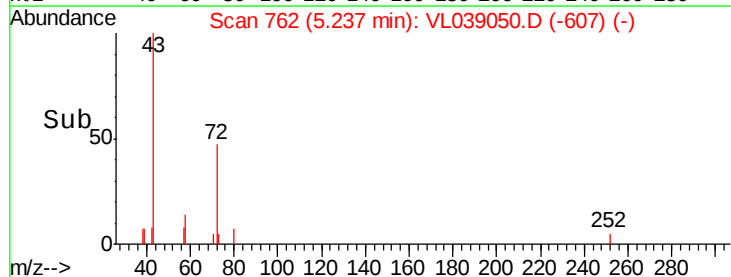
43 100

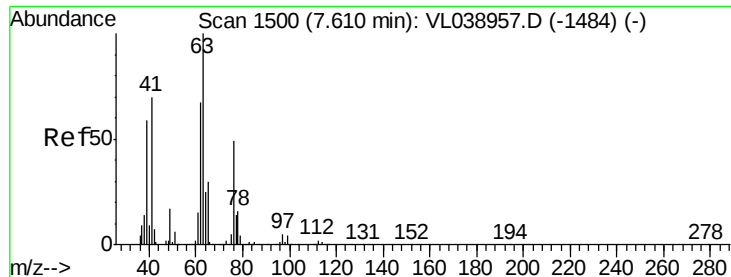
72 43.1 17.8 26.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#39

1,2-Dichloropropane

Concen: 0.101 ppbv

RT: 7.20 Instrument:

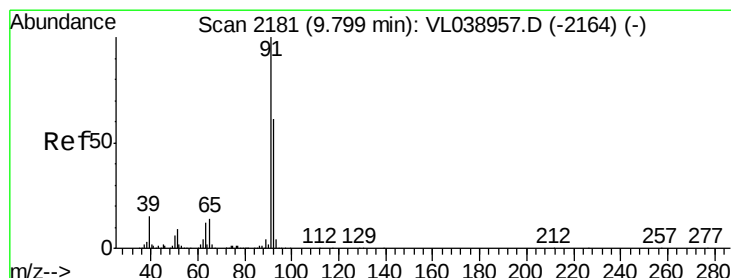
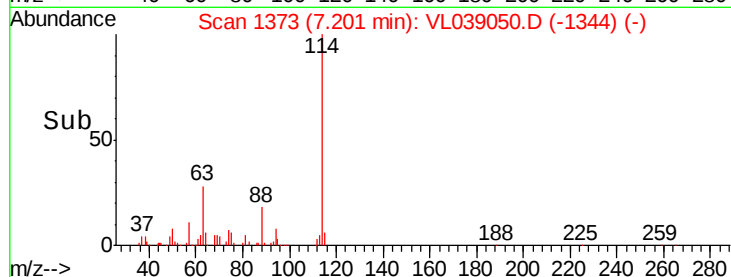
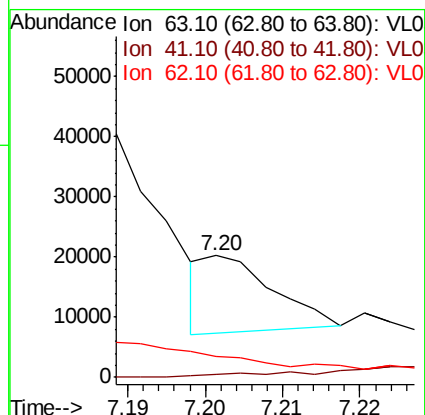
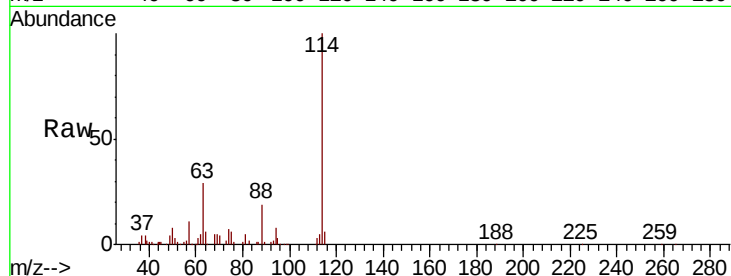
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 May 2022 23:51

Tot Ion: 63 Resp: 7786

Ion	Ratio	Lower	Upper
63	100		
41	4.3	55.9	83.9#
62	13.6	53.8	80.6#



#53

Toluene

Concen: 0.120 ppbv

RT: 9.78 min Scan# 2176

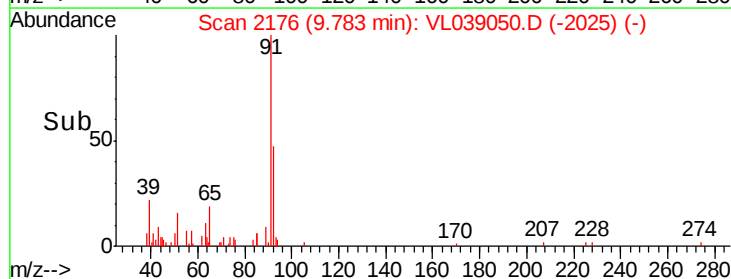
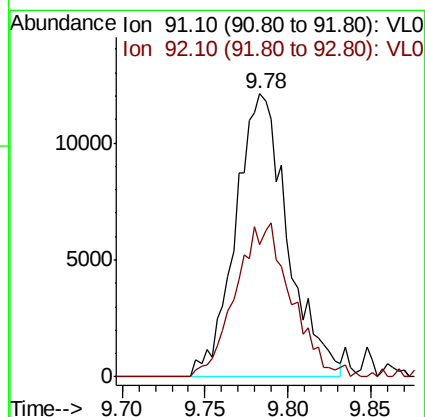
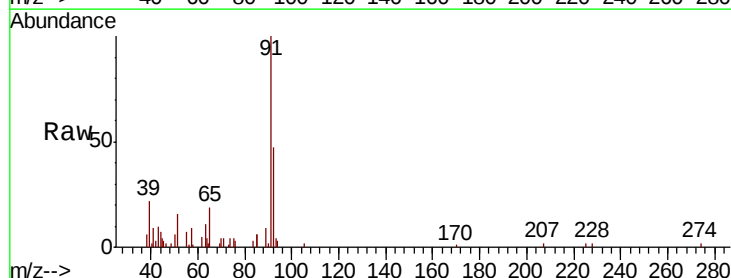
Delta R.T. -0.02 min

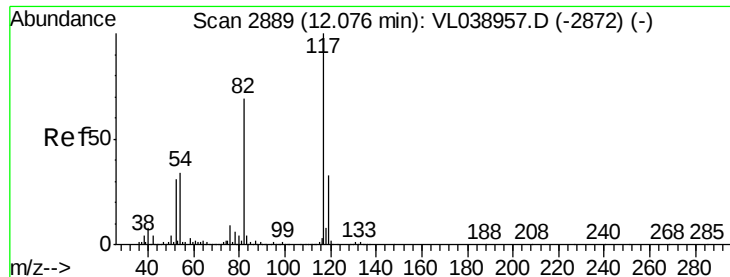
Lab File: VL039050.D

Acq: 13 May 2022 23:51

Tgt Ion: 91 Resp: 26482

Ion	Ratio	Lower	Upper
91	100		
92	57.9	48.2	72.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 13 May 2022 23:51

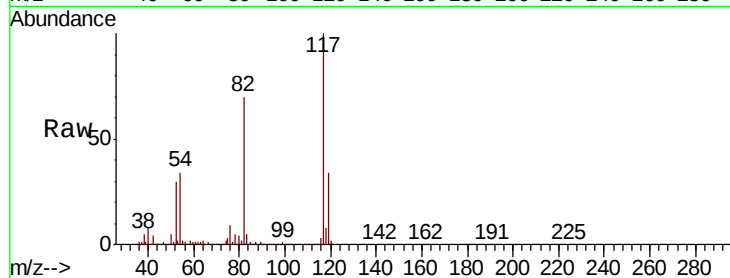
Tot Ion:117 Resp: 1914773

Ion Ratio Lower Upper

117 100

82 73.5 57.0 85.6

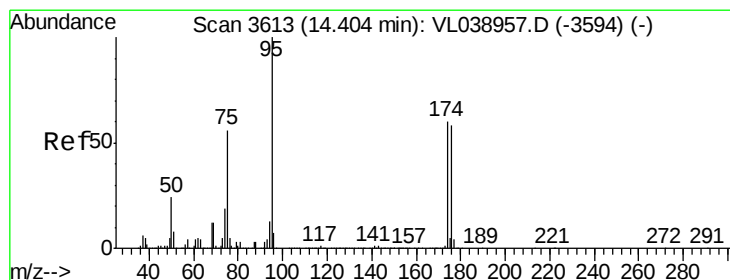
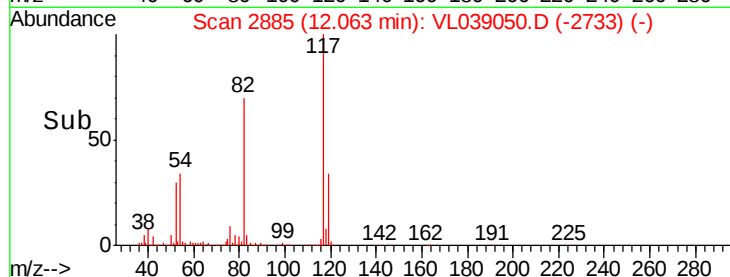
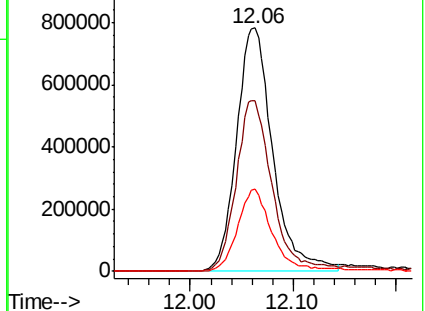
119 32.6 27.2 40.8



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.632 ppbv

RT: 14.39 min Scan# 3608

Delta R.T. -0.02 min

Lab File: VL039050.D

Acq: 13 May 2022 23:51

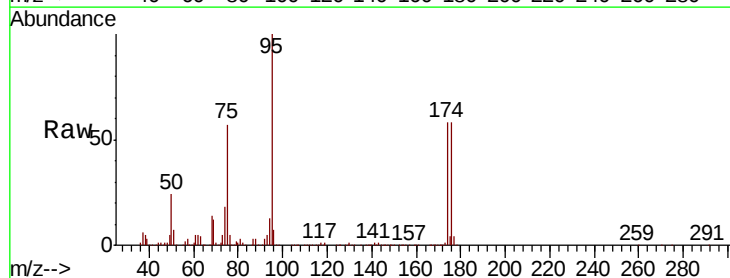
Tgt Ion: 95 Resp: 1460557

Ion Ratio Lower Upper

95 100

174 64.5 50.8 76.2

175 4.7 3.8 5.6



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

