

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052225\
 Data File : VL042573.D
 Acq On : 22 May 2025 10:08
 Operator : SY/MD
 Sample : VL0522ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 23 01:31:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed May 21 00:21:29 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.797	49	128614	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	399998	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	341603	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.390	95	267146	9.771	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.700%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.505	85	76	0.003	ppbv #	42
3) Chlorodifluoromethane	1.590	51	297	0.015	ppbv	97
4) Chloromethane	1.538	50	58	0.007	ppbv #	41
5) Vinyl Chloride	1.586	62	31	0.004	ppbv #	43
6) Bromomethane	1.674	94	40	0.008	ppbv #	3
7) Chloroethane	1.687	64	32	0.009	ppbv #	1
8) Dichlorotetrafluoroethane	1.505	85	76	0.004	ppbv #	14
9) Propene	1.493	41	168	0.024	ppbv #	15
10) Heptane	5.008	43	39	0.002	ppbv #	24
11) Trichlorofluoromethane	2.143	101	40	0.002	ppbv #	18
12) 1,1,2-Trichlorotrifluo...	2.150	101	14	0.001	ppbv #	12
13) Ethanol	1.726	45	231	0.231	ppbv #	37
14) Bromoethene	1.758	108	34	0.004	ppbv #	1
15) Acetone	1.842	43	2356	0.131	ppbv	95
16) 1,3-Butadiene	1.612	39	138	0.019	ppbv #	5
17) tert-Butyl alcohol	2.046	59	149	0.007	ppbv #	73
18) 1,1-Dichloroethene	2.043	96	60	0.007	ppbv #	1
19) Isopropyl Alcohol	1.891	45	450	0.044	ppbv #	32
20) Methylene Chloride	2.069	84	1575	0.181	ppbv #	84
21) Allyl Chloride	2.111	41	84	0.007	ppbv #	19
22) trans-1,2-Dichloroethene	2.350	96	57	0.006	ppbv	82
23) Vinyl Acetate	2.476	43	133	0.007	ppbv #	85
24) 1,1-Dichloroethane	2.412	63	35	0.002	ppbv #	86
25) Ethyl Acetate	2.845	43	34	0.001	ppbv #	74
26) Hexane	2.836	57	84	0.005	ppbv #	71
27) Carbon Disulfide	2.156	76	166	0.007	ppbv #	1
28) Methyl tert-Butyl Ether	2.273	73	42	0.004	ppbv #	1
29) Chloroform	2.858	83	185	0.006	ppbv #	66
30) Cyclohexane	3.972	84	2675	0.197	ppbv #	1
31) cis-1,2-Dichloroethene	2.729	61	23	0.001	ppbv #	23
32) 1,1,1-Trichloroethane	3.386	97	20	0.001	ppbv #	23
34) 2-Butanone	2.570	43	712	0.034	ppbv #	82
36) Benzene	3.668	78	96	0.003	ppbv #	56
37) 1,2-Dichloroethane	3.231	62	42	0.002	ppbv #	80
38) Trichloroethene	4.558	130	38	0.003	ppbv #	4
39) 1,2-Dichloropropane	3.975	63	95551	8.410	ppbv #	25
40) 1,4-Dioxane	4.651	88	23	0.005	ppbv #	1
41) Tetrahydrofuran	3.095	42	26	0.003	ppbv #	33
42) Bromodichloromethane	4.493	83	122	0.004	ppbv #	25
43) Methyl Methacrylate	4.910	69	33	0.003	ppbv #	57
44) 2,2,4-Trimethylpentane	4.179	57	26	0.001	ppbv #	1
47) 1,1,2-Trichloroethane	6.616	97	32	0.002	ppbv #	17
48) Dibromochloromethane	7.403	129	65	0.003	ppbv #	10

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :
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Quant Time: May 23 01:31:08 2025
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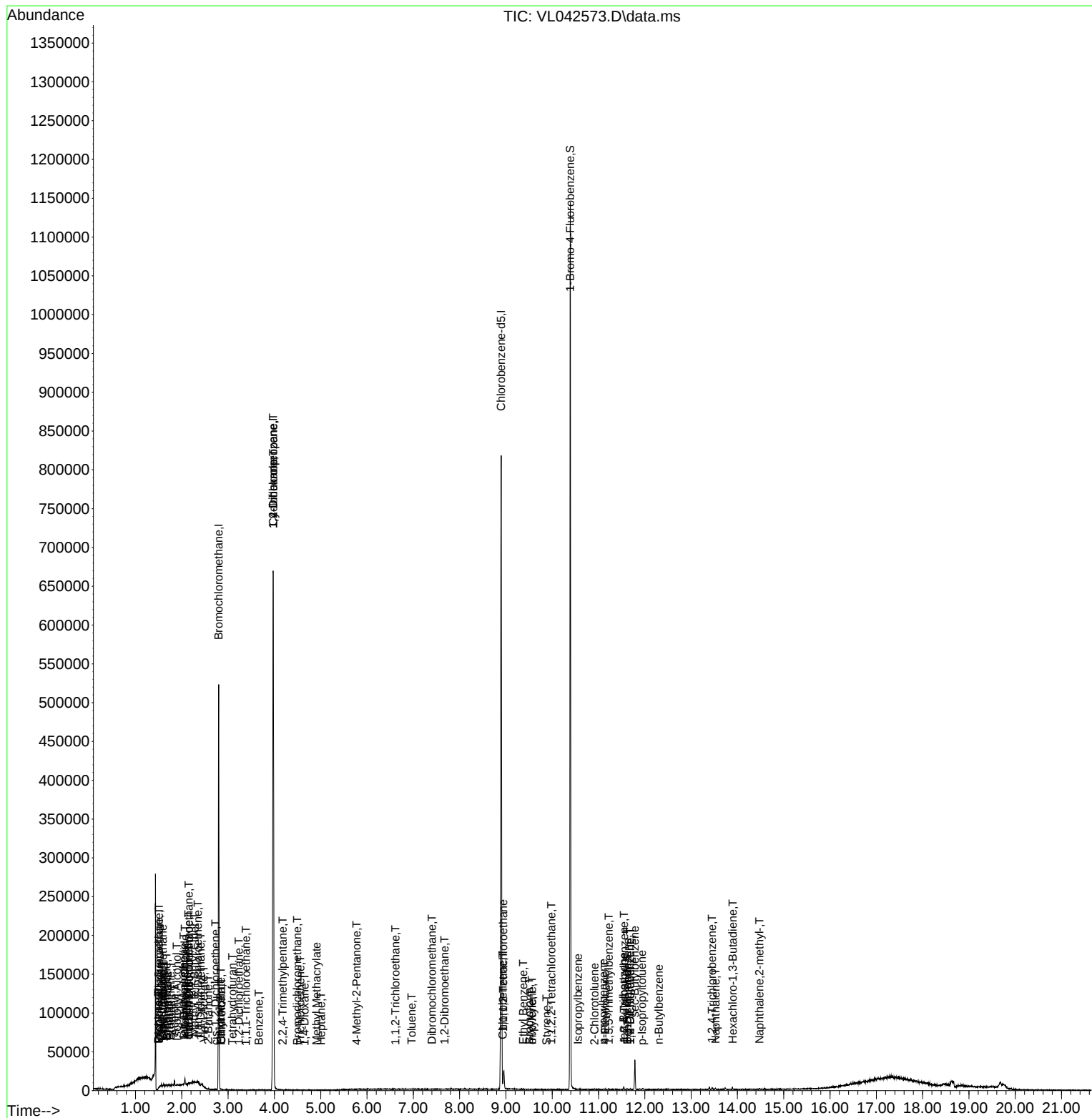
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
49) Bromoform	9.500	173	80	0.004	ppbv	#	9
50) 4-Methyl-2-Pentanone	5.775	43	47	0.002	ppbv	#	37
53) Toluene	6.962	91	19	0.001	ppbv	#	21
54) 1,2-Dibromoethane	7.678	107	24	0.001	ppbv	#	4
56) 1,1,1,2-Tetrachloroethane	8.943	131	46	0.003	ppbv	#	9
57) Chlorobenzene	8.930	112	142	0.005	ppbv	#	47
58) Ethyl Benzene	9.374	91	56	0.001	ppbv	#	44
59) m/p-Xylene	9.561	91	224	0.006	ppbv	#	83
60) o-Xylene	9.561	91	224	0.006	ppbv		88
61) Styrene	9.875	104	34	0.002	ppbv	#	29
62) Isopropylbenzene	10.555	105	218	0.004	ppbv	#	50
63) 1,1,2,2-Tetrachloroethane	9.979	83	127	0.005	ppbv	#	68
64) n-propylbenzene	11.102	120	40	0.003	ppbv	#	1
65) tert-Butylbenzene	11.542	119	230	0.004	ppbv	#	42
66) Benzyl Chloride	11.626	91	52	0.008	ppbv	#	65
67) sec-Butylbenzene	11.782	105	297	0.004	ppbv	#	1
69) p-Isopropyltoluene	11.940	119	76	0.001	ppbv	#	48
70) n-Butylbenzene	12.303	91	84	0.001	ppbv	#	32
71) 2-Chlorotoluene	10.911	91	198	0.005	ppbv	#	44
72) 4-Ethyltoluene	11.144	105	182	0.004	ppbv	#	56
73) 1,3,5-Trimethylbenzene	11.222	105	173	0.004	ppbv		98
74) 1,2,4-Trimethylbenzene	11.549	105	1168	0.024	ppbv	#	65
75) 1,3-Dichlorobenzene	11.623	146	100	0.003	ppbv	#	1
76) 1,4-Dichlorobenzene	11.685	146	248	0.008	ppbv		83
77) 1,2-Dichlorobenzene	11.685	146	248	0.008	ppbv		84
78) Hexachloro-1,3-Butadiene	13.895	225	125	0.005	ppbv	#	19
79) Naphthalene	13.530	128	972	0.027	ppbv	#	94
80) Naphthalene,2-methyl-	14.475	142	617	0.033	ppbv	#	90
81) 1,2,4-Trichlorobenzene	13.452	180	569	0.026	ppbv	#	96

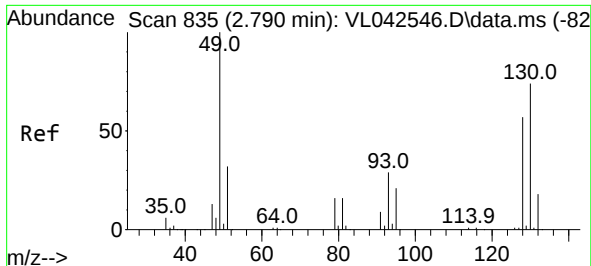
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 2.797 min Scan# 81

Delta R.T. 0.007 min

Lab File: VL042573.D

Acq: 22 May 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

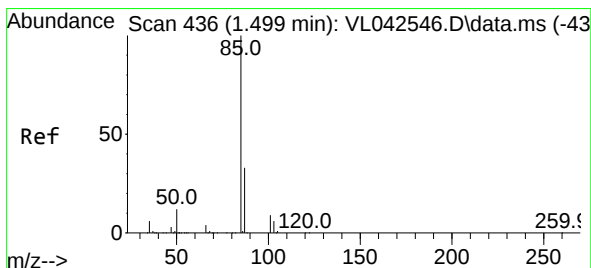
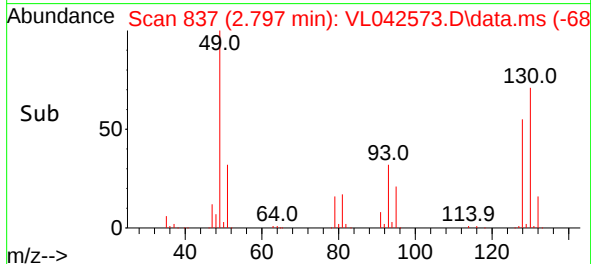
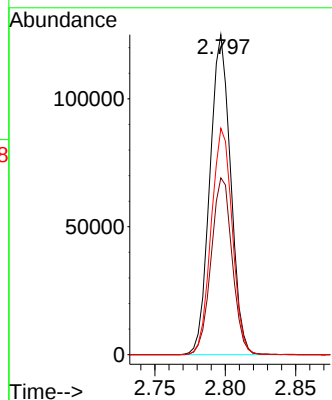
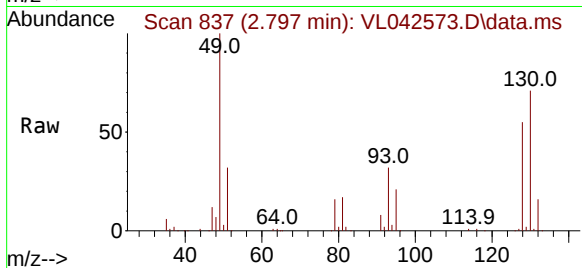
Tgt Ion: 49 Resp: 128614

Ion Ratio Lower Upper

49 100

128 55.8 28.6 85.8

130 71.6 36.6 109.8



#2

Dichlorodifluoromethane

Concen: 0.003 ppbv

RT: 1.505 min Scan# 438

Delta R.T. 0.006 min

Lab File: VL042573.D

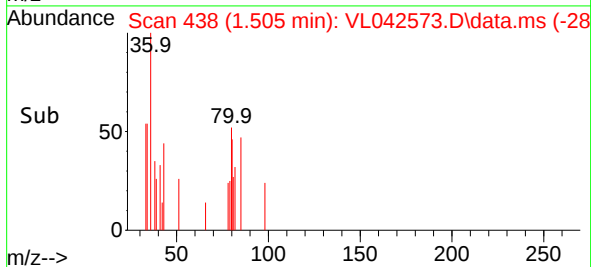
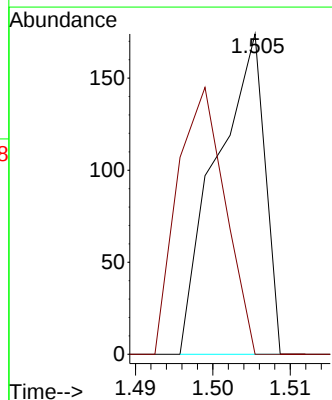
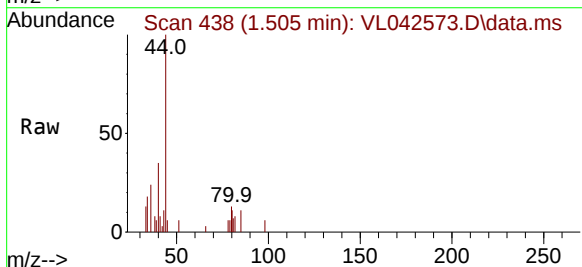
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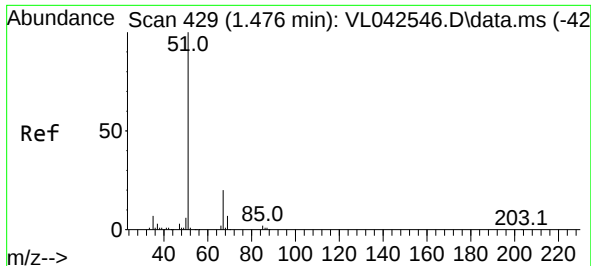
Tgt Ion: 85 Resp: 76

Ion Ratio Lower Upper

85 100

87 0.0 26.2 39.4#

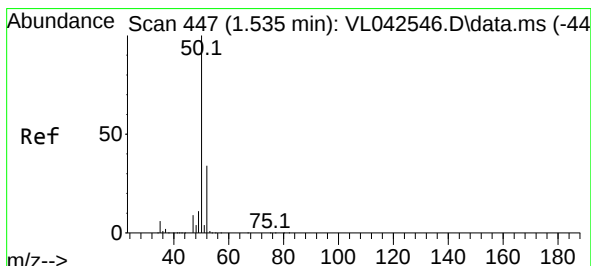
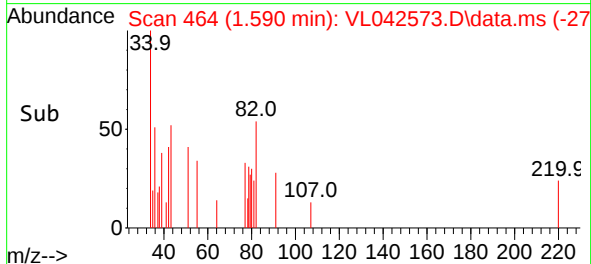
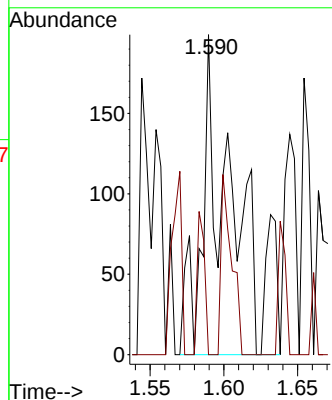
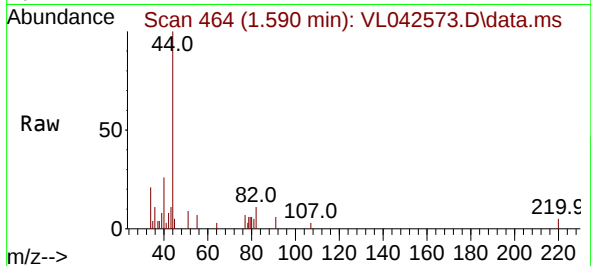




#3
Chlorodifluoromethane
Concen: 0.015 ppbv
RT: 1.590 min Scan# 41
Delta R.T. 0.113 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

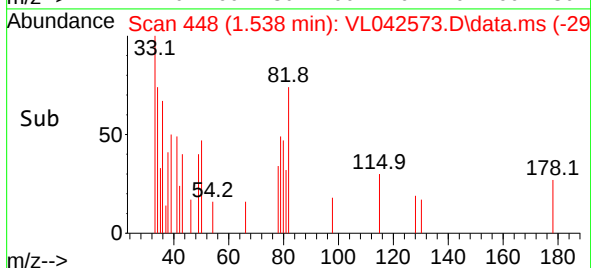
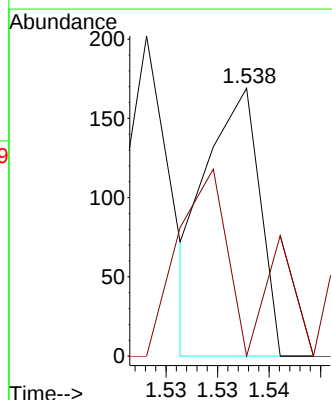
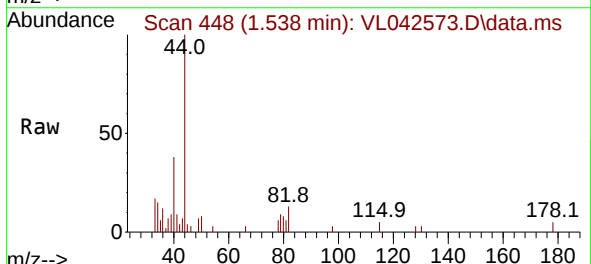
Instrument :
MSVOA_L
ClientSampleId :

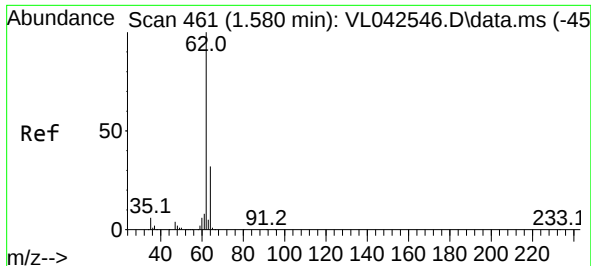
Tgt Ion: 51 Resp: 297
Ion Ratio Lower Upper
51 100
67 19.2 16.6 25.0



#4
Chloromethane
Concen: 0.007 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

Tgt Ion: 50 Resp: 58
Ion Ratio Lower Upper
50 100
52 0.0 26.9 40.3#

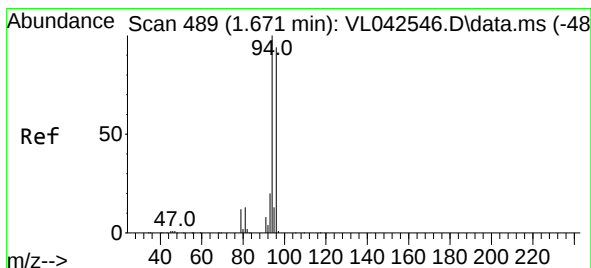
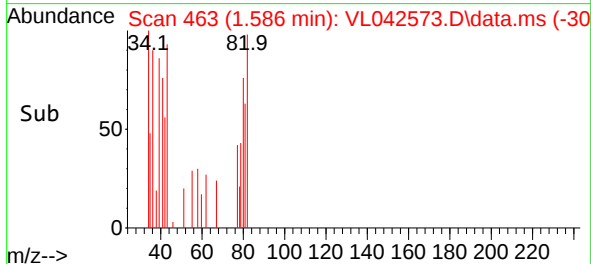
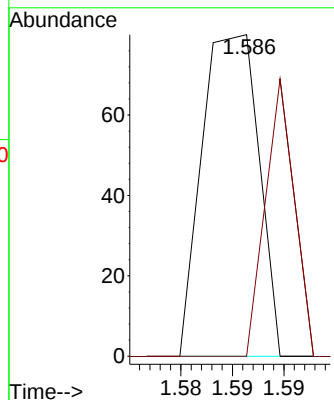
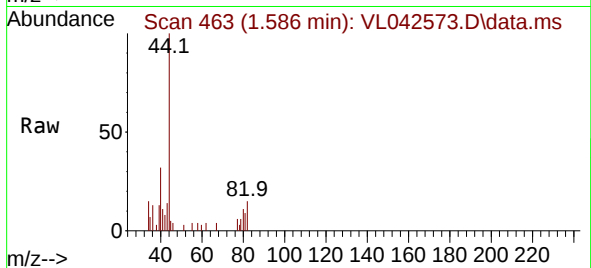




#5
 Vinyl Chloride
 Concen: 0.004 ppbv
 RT: 1.586 min Scan# 40
 Delta R.T. 0.006 min
 Lab File: VL042573.D
 Acq: 22 May 2025 10:08

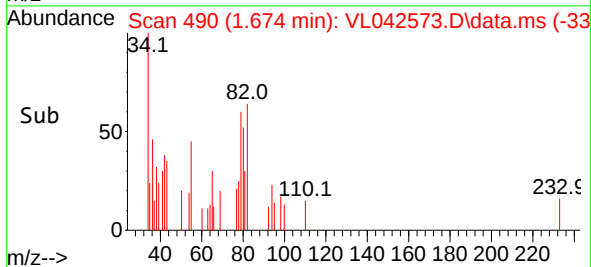
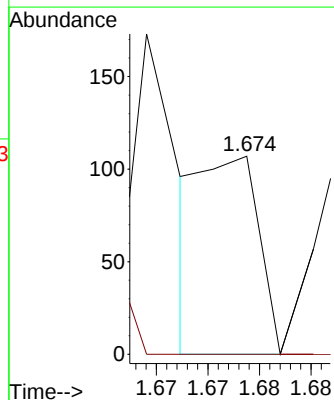
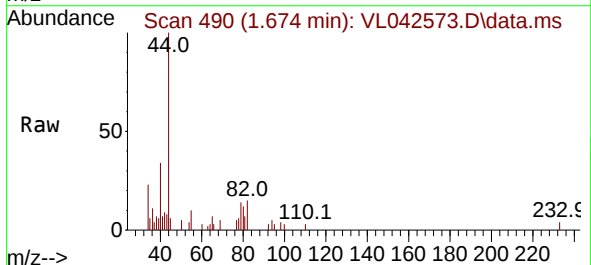
Instrument :
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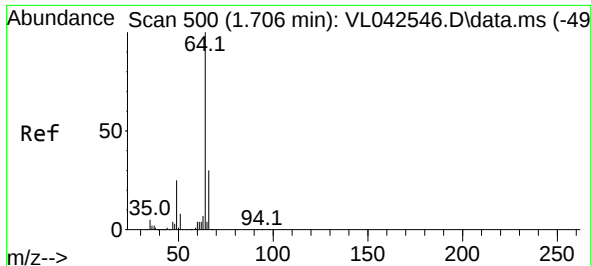
Tgt Ion: 62 Resp: 31
 Ion Ratio Lower Upper
 62 100
 64 0.0 25.7 38.5#



#6
 Bromomethane
 Concen: 0.008 ppbv
 RT: 1.674 min Scan# 490
 Delta R.T. 0.003 min
 Lab File: VL042573.D
 Acq: 22 May 2025 10:08

Tgt Ion: 94 Resp: 40
 Ion Ratio Lower Upper
 94 100
 96 0.0 74.9 112.3#

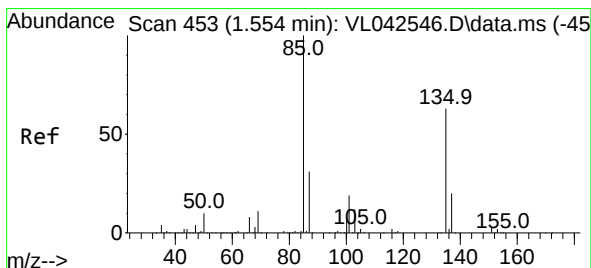
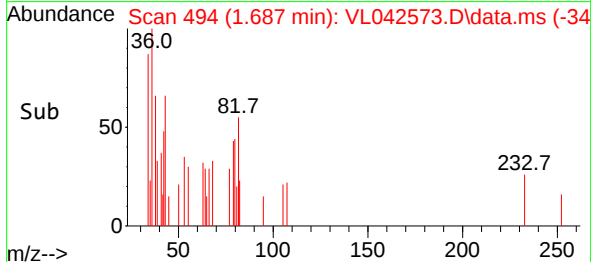
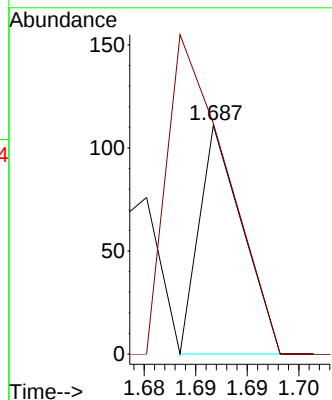
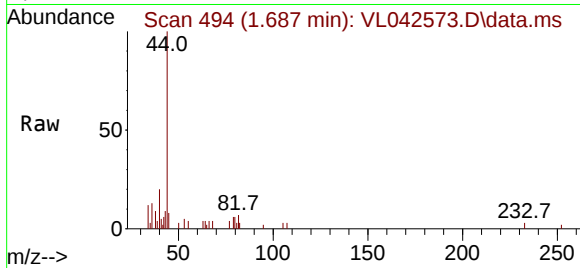




#7
Chloroethane
Concen: 0.009 ppbv
RT: 1.687 min Scan# 494
Delta R.T. -0.019 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

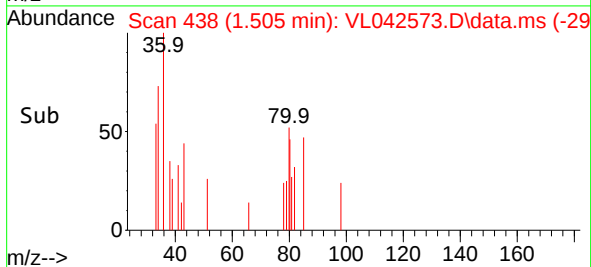
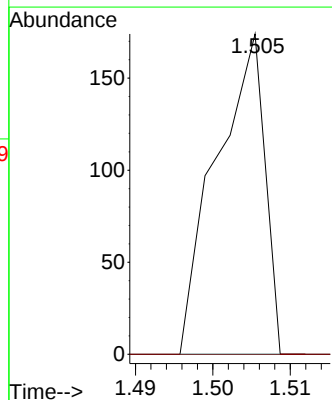
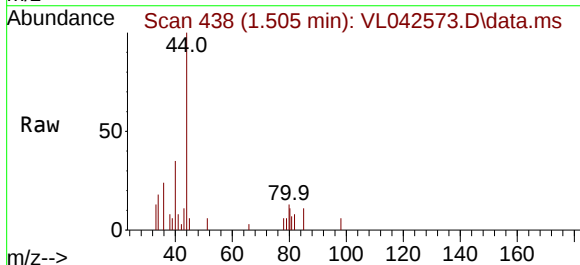
Instrument :
MSVOA_L
ClientSampleId :

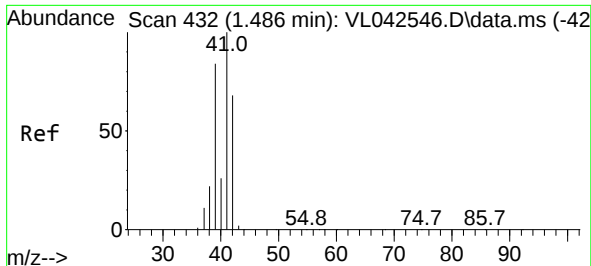
Tgt Ion: 64 Resp: 32
Ion Ratio Lower Upper
64 100
66 100.9 24.4 36.6#



#8
Dichlorotetrafluoroethane
Concen: 0.004 ppbv
RT: 1.505 min Scan# 438
Delta R.T. -0.049 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

Tgt Ion: 85 Resp: 76
Ion Ratio Lower Upper
85 100
135 0.0 57.2 85.8#





#9

Propene

Concen: 0.024 ppbv

RT: 1.493 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042573.D

Acq: 22 May 2025 10:08

Instrument :

MSVOA_L

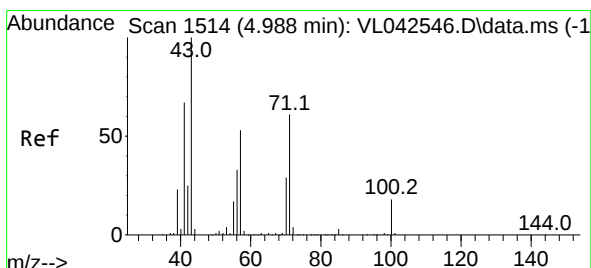
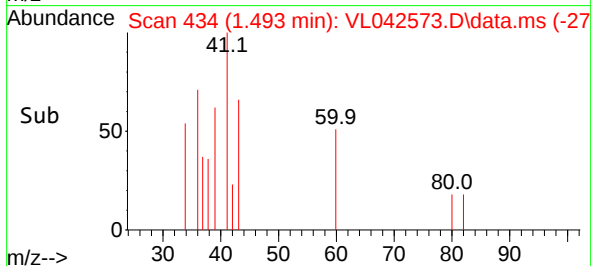
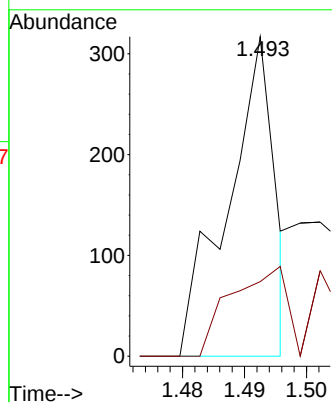
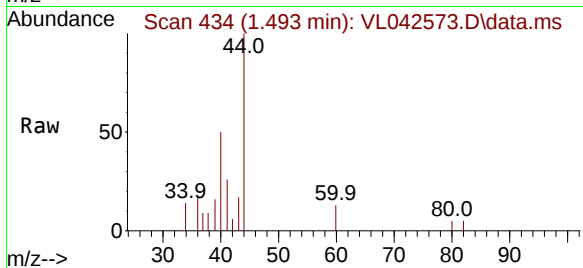
ClientSampleId :

Tgt Ion: 41 Resp: 168

Ion Ratio Lower Upper

41 100

42 0.0 55.0 82.4#



#10

Heptane

Concen: 0.002 ppbv

RT: 5.008 min Scan# 1520

Delta R.T. 0.019 min

Lab File: VL042573.D

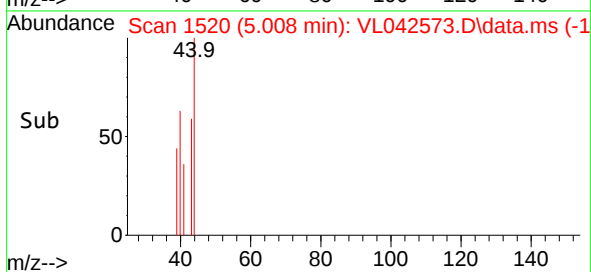
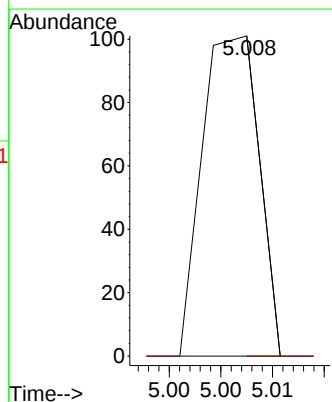
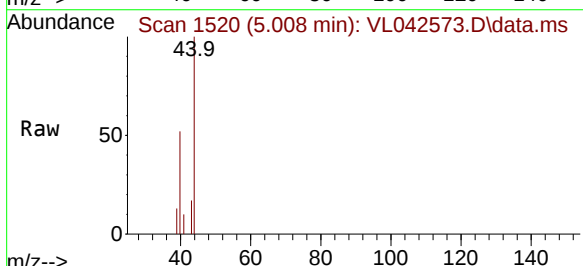
Acq: 22 May 2025 10:08

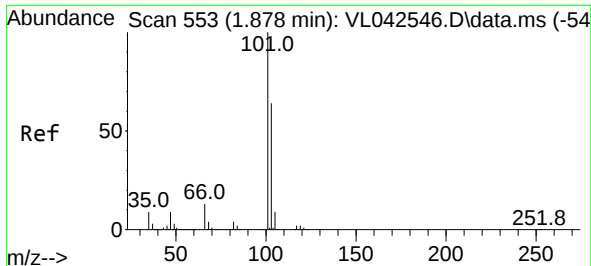
Tgt Ion: 43 Resp: 39

Ion Ratio Lower Upper

43 100

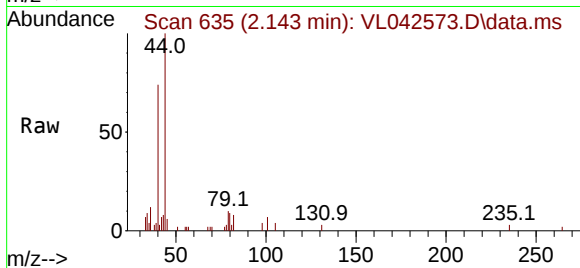
57 0.0 43.4 65.0#



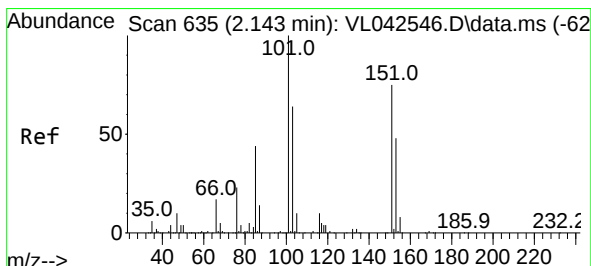
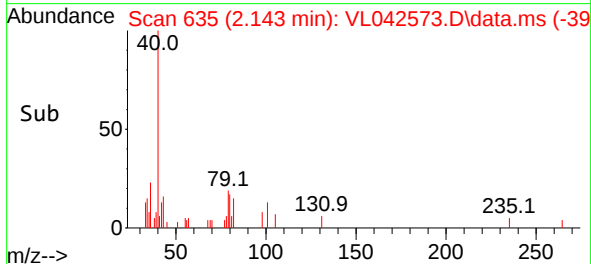
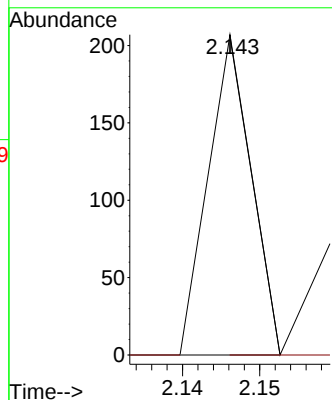


#11
 Trichlorofluoromethane
 Concen: 0.002 ppbv
 RT: 2.143 min Scan# 61
 Delta R.T. 0.265 min
 Lab File: VL042573.D
 Acq: 22 May 2025 10:08

Instrument :
 MSVOA_L
 ClientSampleId :

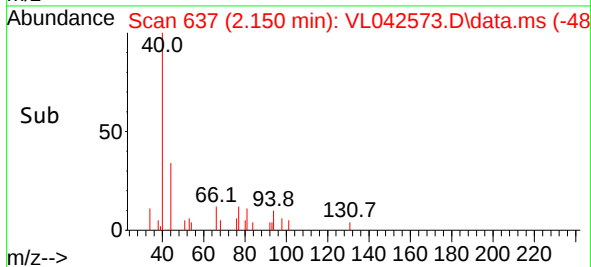
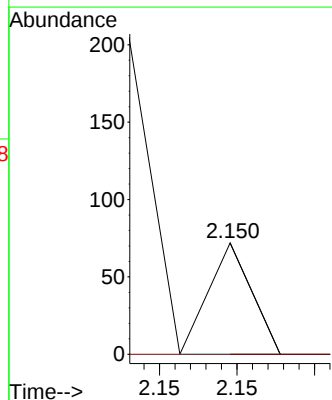
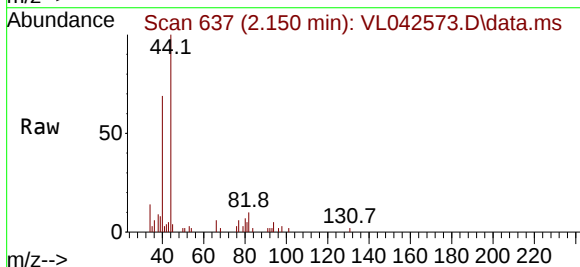


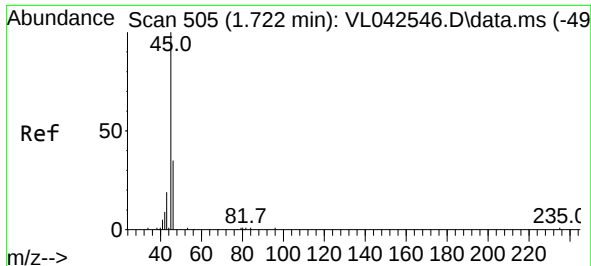
Tgt Ion:101 Resp: 40
 Ion Ratio Lower Upper
 101 100
 103 0.0 51.5 77.3#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.001 ppbv
 RT: 2.150 min Scan# 637
 Delta R.T. 0.006 min
 Lab File: VL042573.D
 Acq: 22 May 2025 10:08

Tgt Ion:101 Resp: 14
 Ion Ratio Lower Upper
 101 100
 151 0.0 59.5 89.3#

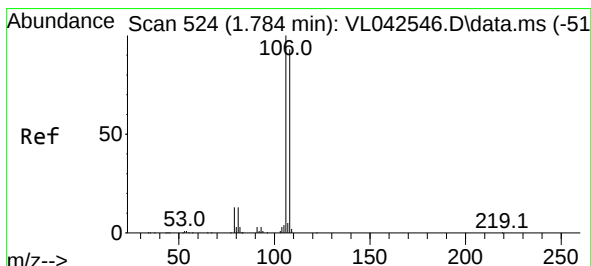
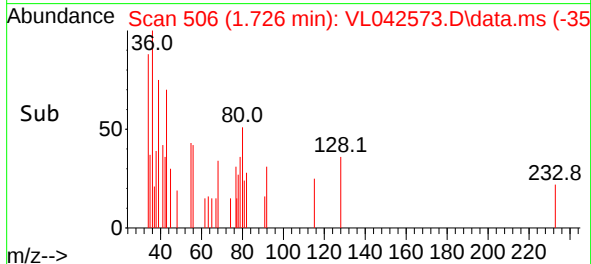
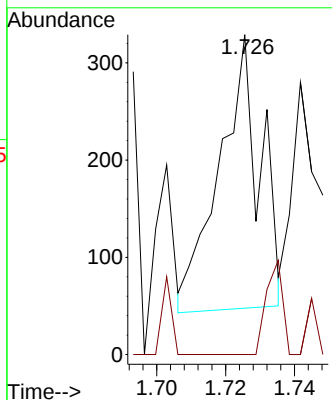
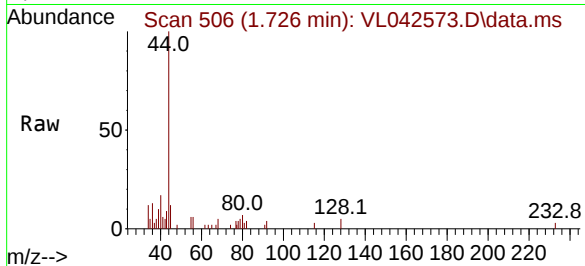




#13
Ethanol
Concen: 0.231 ppbv
RT: 1.726 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

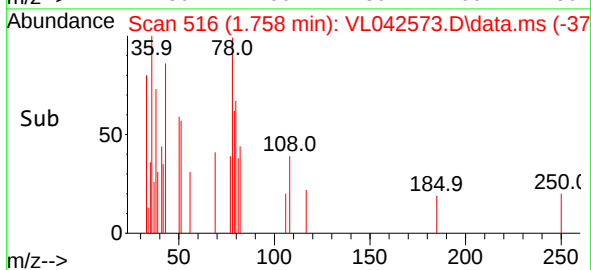
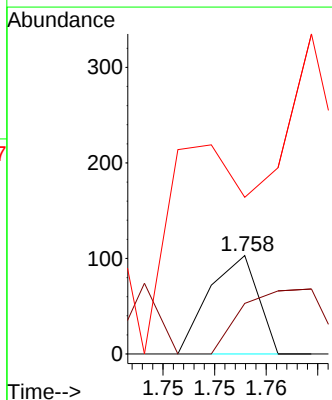
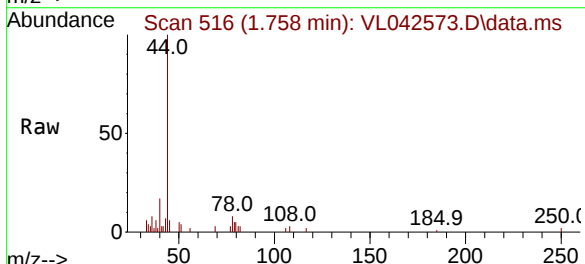
Instrument :
MSVOA_L
ClientSampleId :

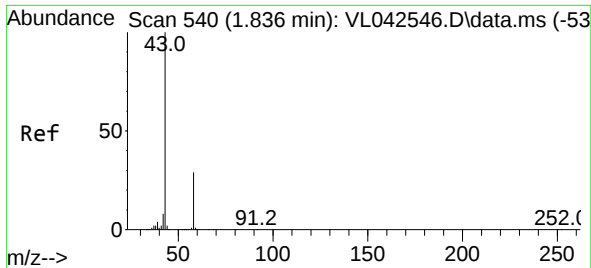
Tgt Ion: 45 Resp: 231
Ion Ratio Lower Upper
45 100
46 0.0 15.3 61.3#



#14
Bromoethene
Concen: 0.004 ppbv
RT: 1.758 min Scan# 516
Delta R.T. -0.026 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

Tgt Ion: 108 Resp: 34
Ion Ratio Lower Upper
108 100
106 150.0 86.4 129.6#
79 2823.5 11.9 17.9#

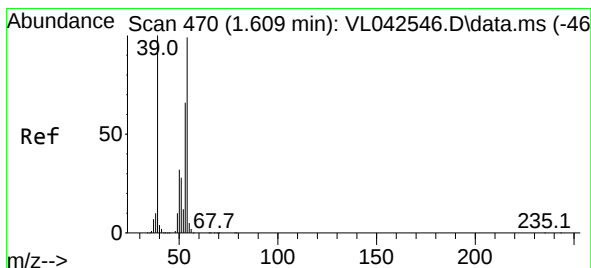
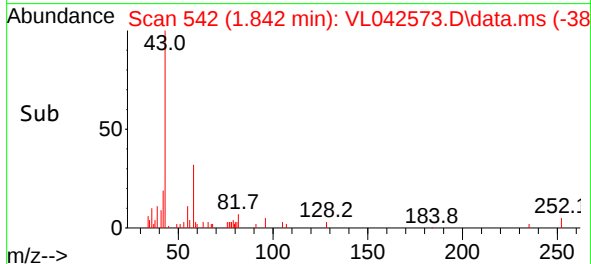
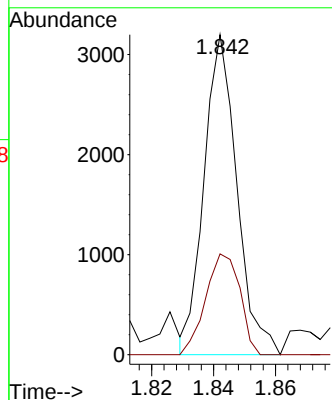
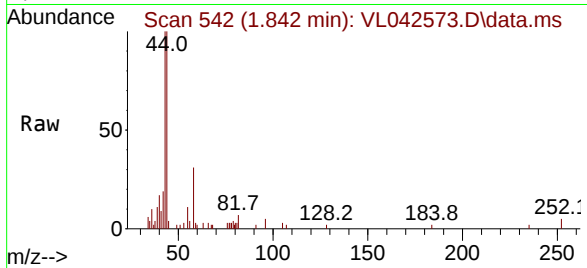




#15
Acetone
Concen: 0.131 ppbv
RT: 1.842 min Scan# 540
Delta R.T. 0.006 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

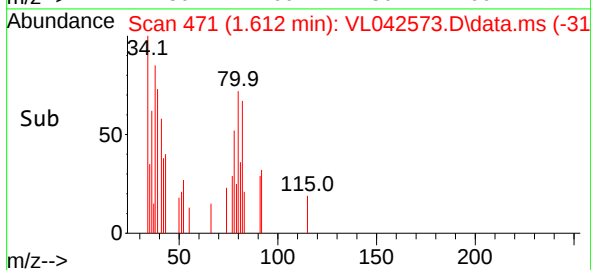
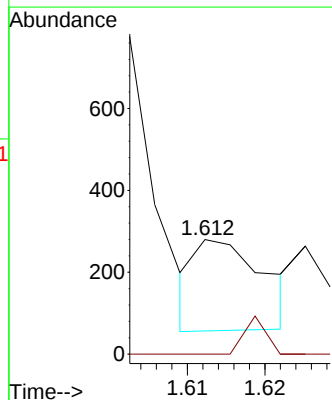
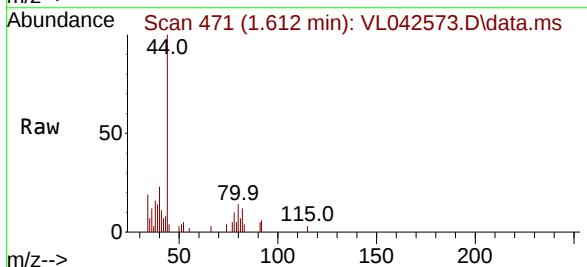
Instrument :
MSVOA_L
ClientSampleId :

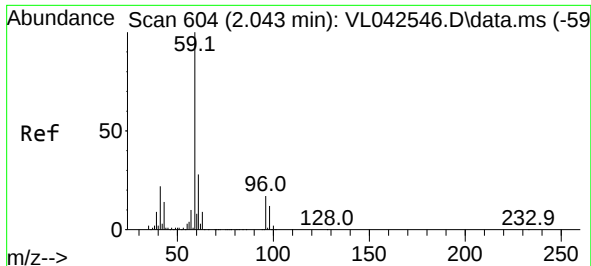
Tgt Ion: 43 Resp: 2356
Ion Ratio Lower Upper
43 100
58 32.9 24.2 36.2



#16
1,3-Butadiene
Concen: 0.019 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.003 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

Tgt Ion: 39 Resp: 138
Ion Ratio Lower Upper
39 100
54 0.0 71.8 107.8#

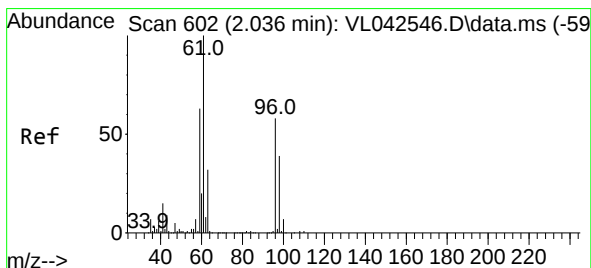
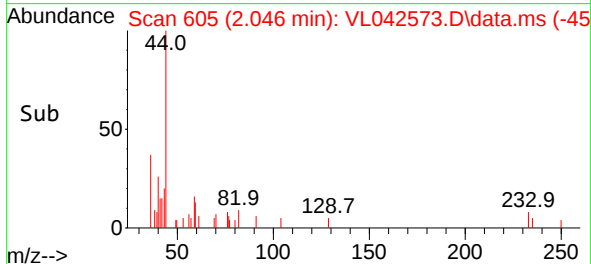
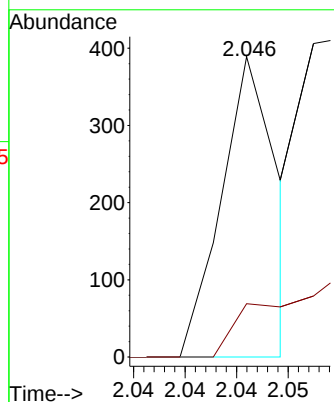
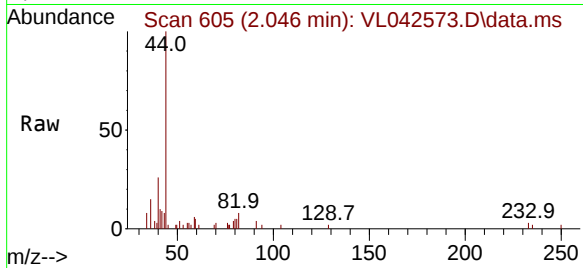




#17
tert-Butyl alcohol
Concen: 0.007 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.003 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

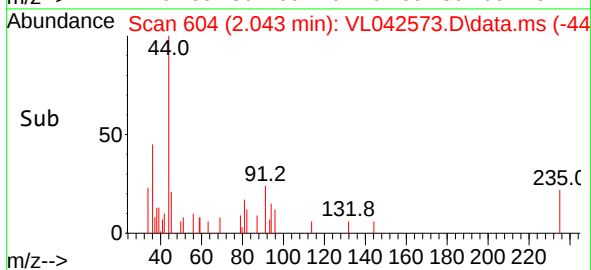
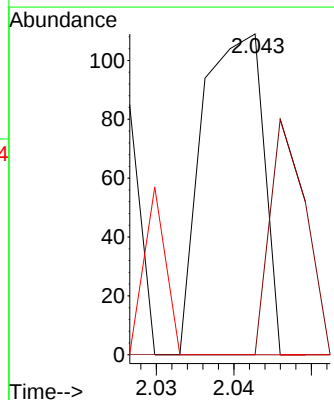
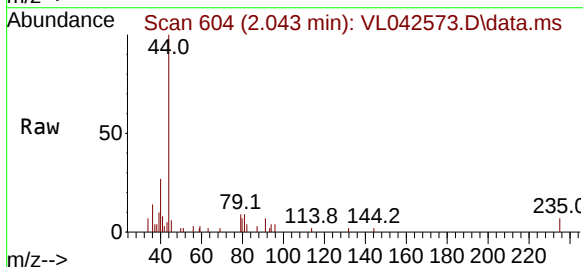
Instrument :
MSVOA_L
ClientSampleId :

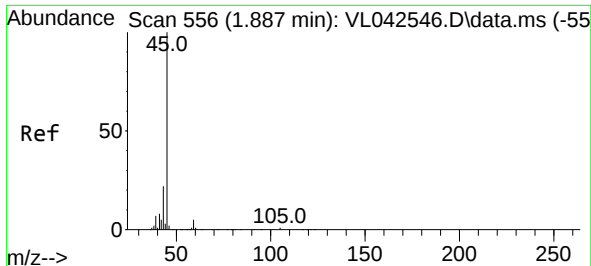
Tgt Ion: 59 Resp: 149
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#18
1,1-Dichloroethene
Concen: 0.007 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.006 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

Tgt Ion: 96 Resp: 60
Ion Ratio Lower Upper
96 100
61 0.0 137.5 206.3#
98 0.0 53.2 79.8#





#19

Isopropyl Alcohol

Concen: 0.044 ppbv

RT: 1.891 min Scan# 51

Delta R.T. 0.003 min

Lab File: VL042573.D

Acq: 22 May 2025 10:08

Instrument :

MSVOA_L

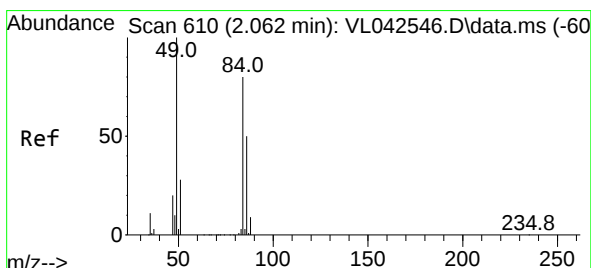
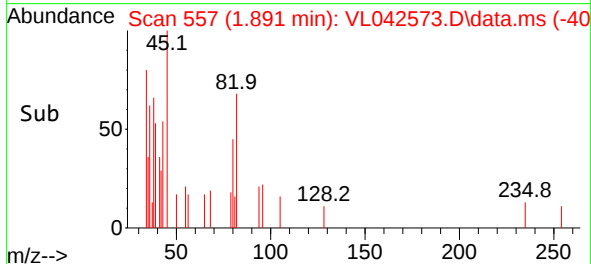
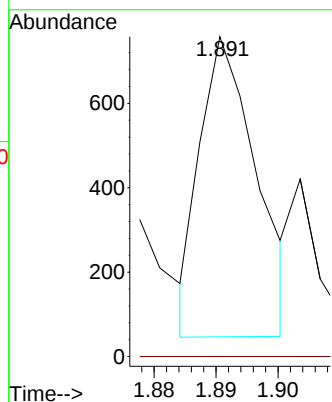
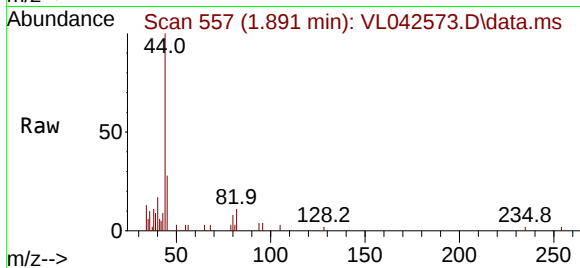
ClientSampleId :

Tgt Ion: 45 Resp: 450

Ion Ratio Lower Upper

45 100

58 0.0 35.3 52.9#



#20

Methylene Chloride

Concen: 0.181 ppbv

RT: 2.069 min Scan# 612

Delta R.T. 0.006 min

Lab File: VL042573.D

Acq: 22 May 2025 10:08

Tgt Ion: 84 Resp: 1575

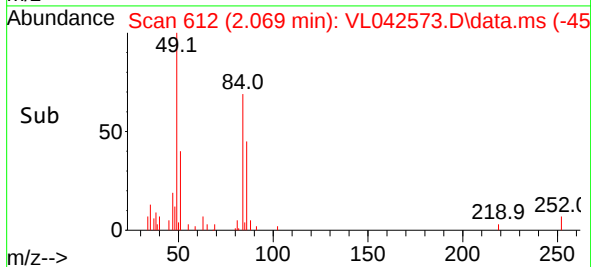
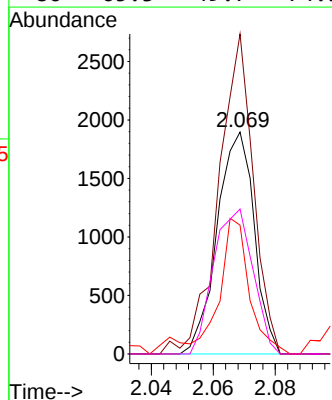
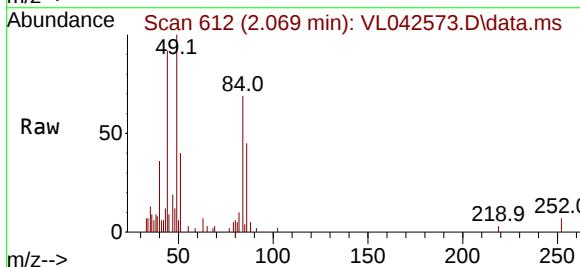
Ion Ratio Lower Upper

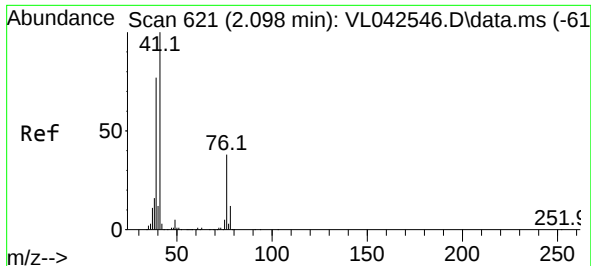
84 100

49 144.2 99.7 149.5

51 55.1 29.7 44.5#

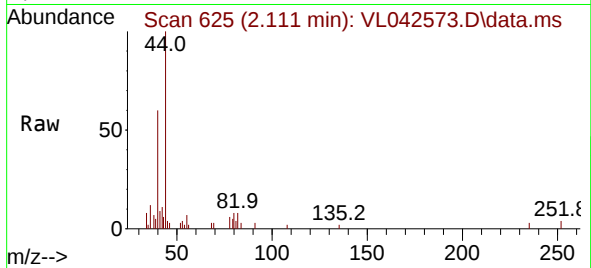
86 65.3 49.7 74.5



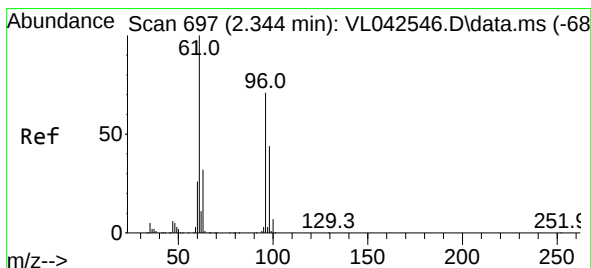
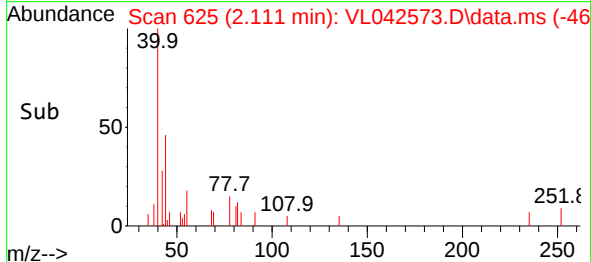
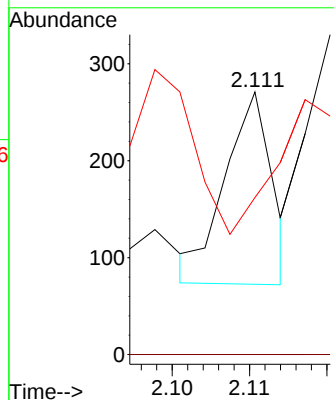


#21
 Allyl Chloride
 Concen: 0.007 ppbv
 RT: 2.111 min Scan# 61
 Delta R.T. 0.013 min
 Lab File: VL042573.D
 Acq: 22 May 2025 10:08

Instrument :
 MSVOA_L
 ClientSampleId :

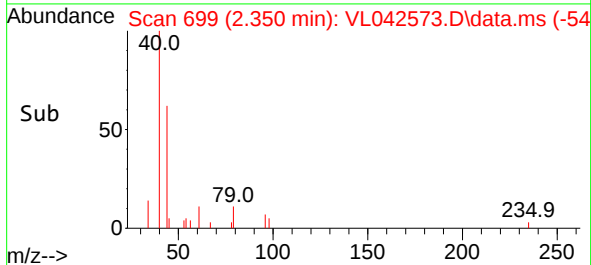
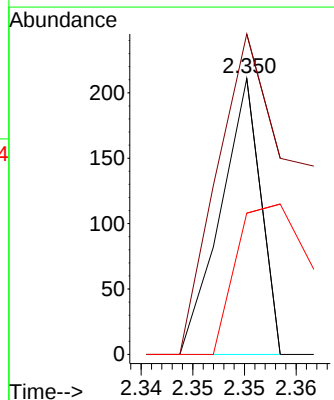
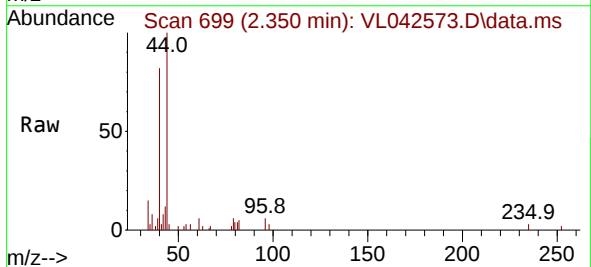


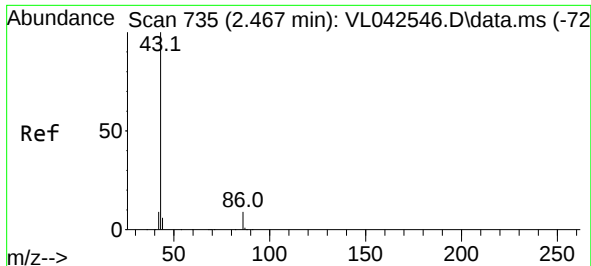
Tgt Ion: 41 Resp: 84
 Ion Ratio Lower Upper
 41 100
 76 0.0 30.2 45.4#
 39 0.0 62.5 93.7#



#22
 trans-1,2-Dichloroethene
 Concen: 0.006 ppbv
 RT: 2.350 min Scan# 699
 Delta R.T. 0.006 min
 Lab File: VL042573.D
 Acq: 22 May 2025 10:08

Tgt Ion: 96 Resp: 57
 Ion Ratio Lower Upper
 96 100
 61 116.1 112.5 168.7
 98 51.2 49.0 73.4

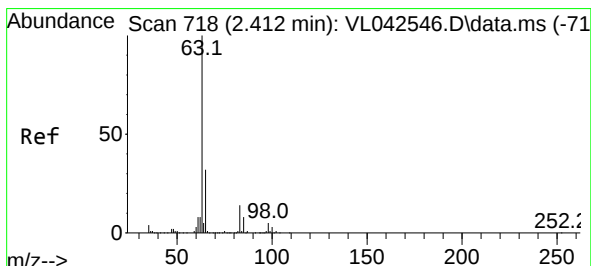
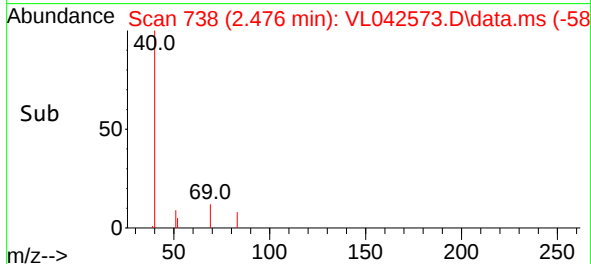
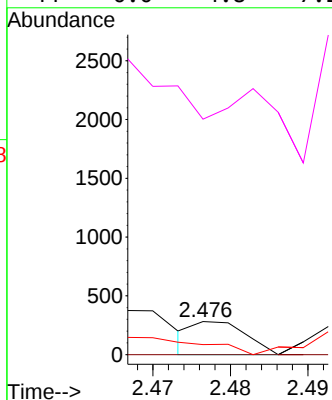
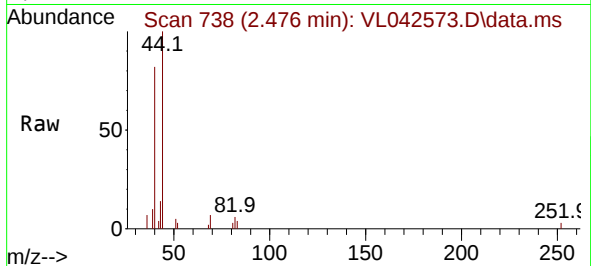




#23
 Vinyl Acetate
 Concen: 0.007 ppbv
 RT: 2.476 min Scan# 718
 Delta R.T. 0.010 min
 Lab File: VL042573.D
 Acq: 22 May 2025 10:08

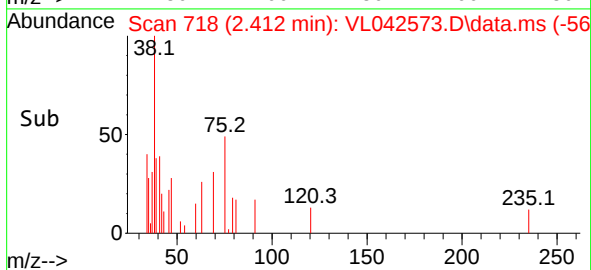
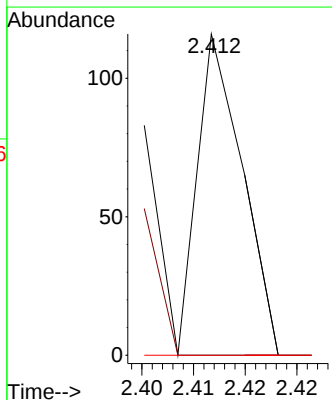
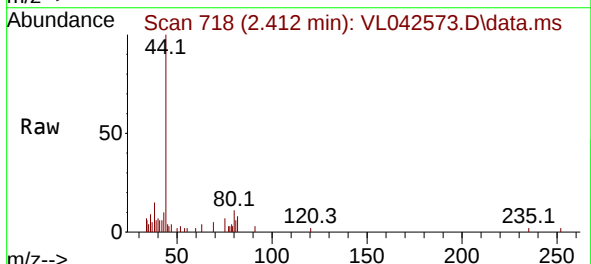
Instrument :
 MSVOA_L
 ClientSampleId :

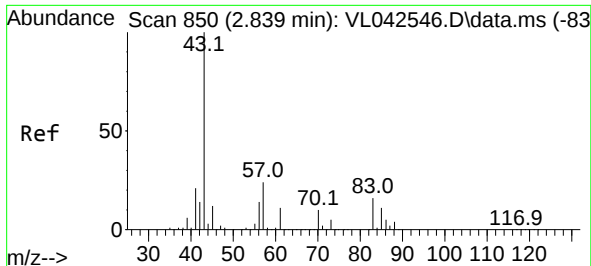
Tgt Ion: 43	Resp: 133
Ion Ratio	Lower Upper
43 100	
86 0.0	7.0 10.6#
42 7.4	7.4 11.2
44 0.0	4.8 7.2#



#24
 1,1-Dichloroethane
 Concen: 0.002 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.000 min
 Lab File: VL042573.D
 Acq: 22 May 2025 10:08

Tgt Ion: 63	Resp:	35	
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.6	7.8#
100	0.0	1.8	5.3#





#25

Ethyl Acetate

Concen: 0.001 ppbv

RT: 2.845 min Scan# 8

Delta R.T. 0.006 min

Lab File: VL042573.D

Acq: 22 May 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 43 Resp: 34

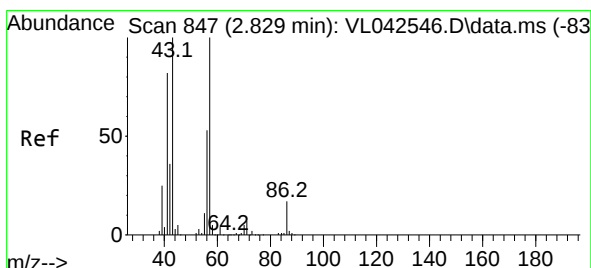
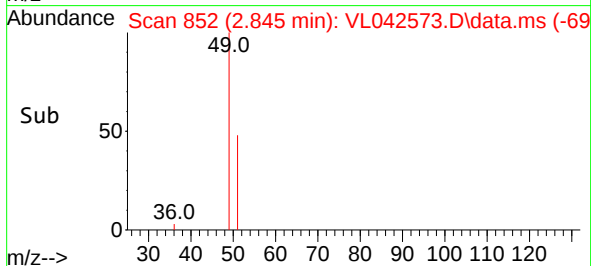
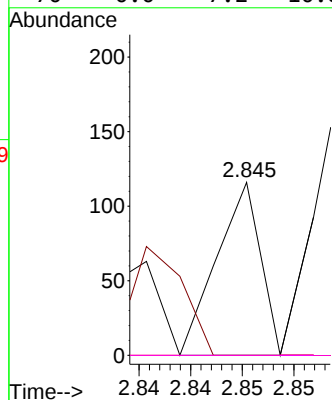
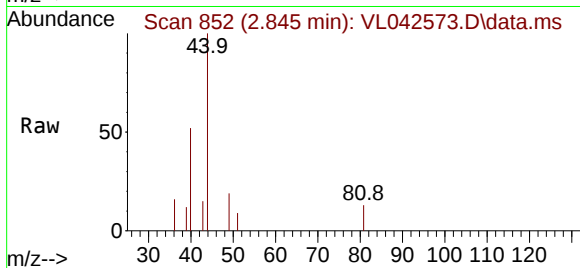
Ion Ratio Lower Upper

43 100

45 0.0 8.0 12.0#

61 0.0 7.5 11.3#

70 0.0 7.2 10.8#



#26

Hexane

Concen: 0.005 ppbv

RT: 2.836 min Scan# 849

Delta R.T. 0.006 min

Lab File: VL042573.D

Acq: 22 May 2025 10:08

Tgt Ion: 57 Resp: 84

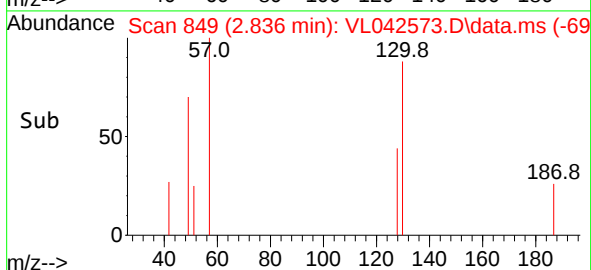
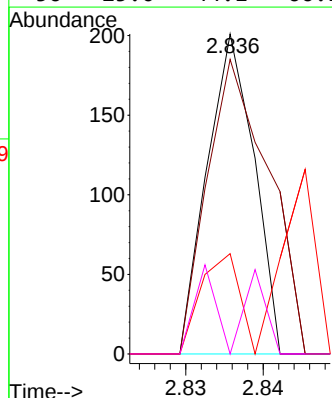
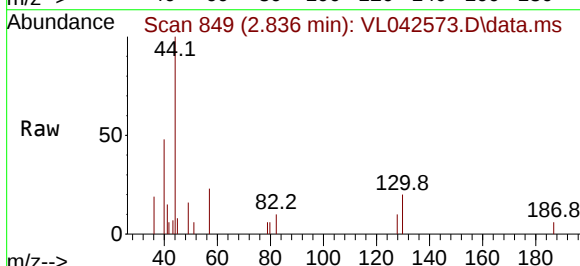
Ion Ratio Lower Upper

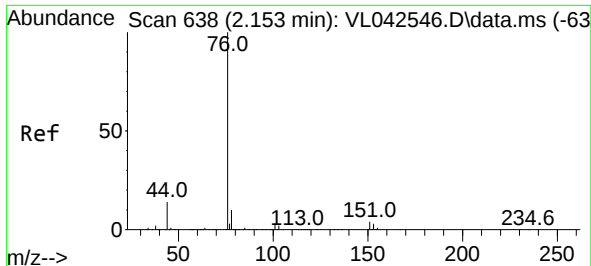
57 100

41 164.3 69.0 103.4#

43 211.9 174.2 261.2

56 25.0 44.1 66.1#

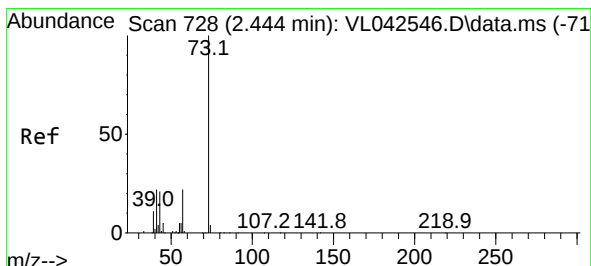
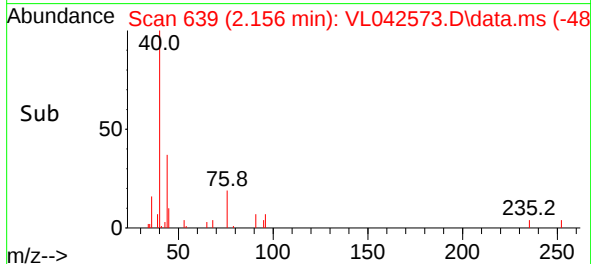
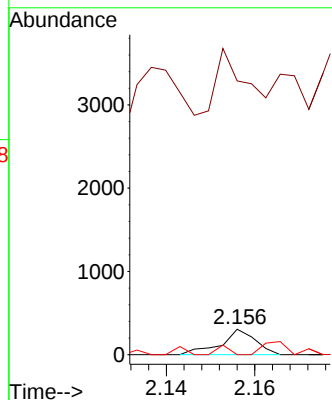
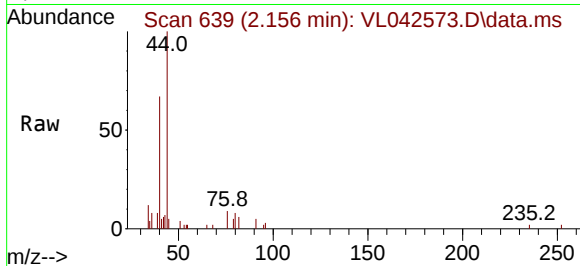




#27
Carbon Disulfide
Concen: 0.007 ppbv
RT: 2.156 min Scan# 611
Delta R.T. 0.003 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

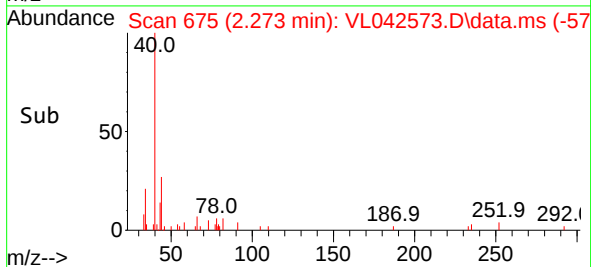
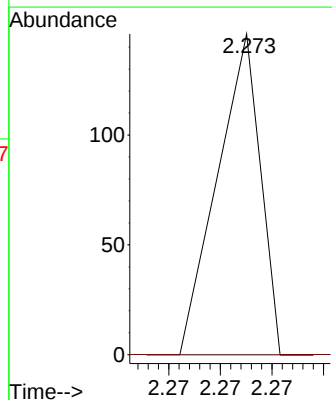
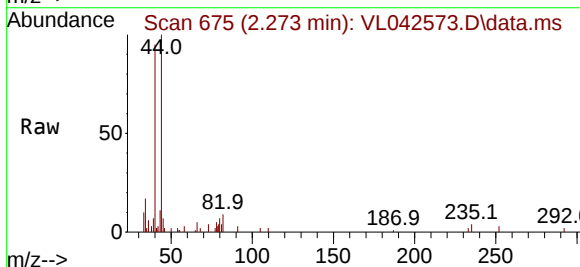
Instrument :
MSVOA_L
ClientSampleId :

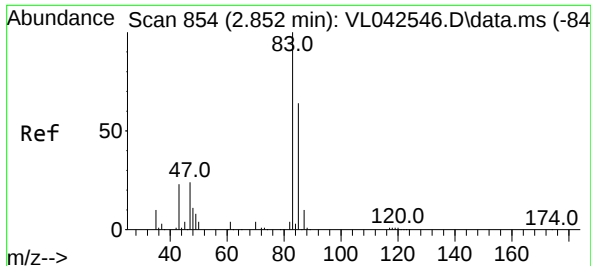
Tgt Ion: 76 Resp: 166
Ion Ratio Lower Upper
76 100
44 2613.3 14.0 21.0#
78 74.7 9.4 14.0#



#28
Methyl tert-Butyl Ether
Concen: 0.004 ppbv
RT: 2.273 min Scan# 675
Delta R.T. -0.172 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

Tgt Ion: 73 Resp: 42
Ion Ratio Lower Upper
73 100
57 216.7 17.2 25.8#





#29

Chloroform

Concen: 0.006 ppbv

RT: 2.858 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042573.D

Acq: 22 May 2025 10:08

Instrument :

MSVOA_L

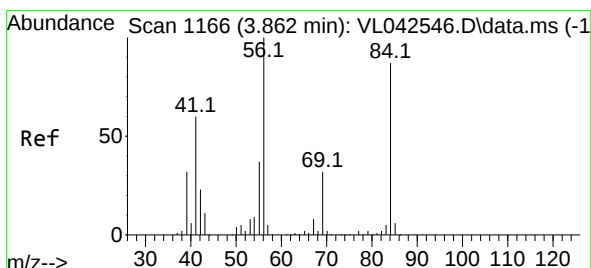
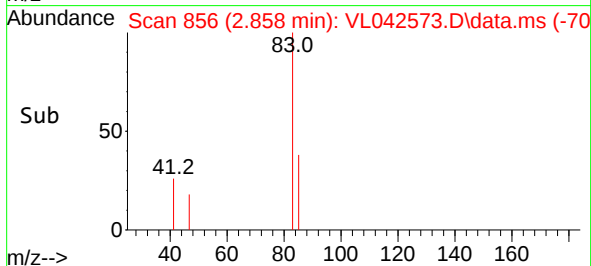
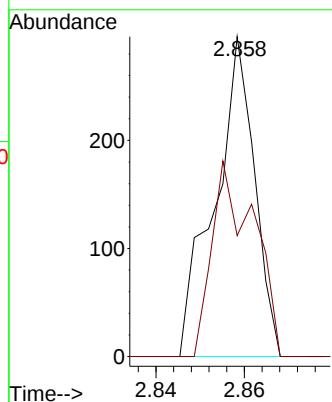
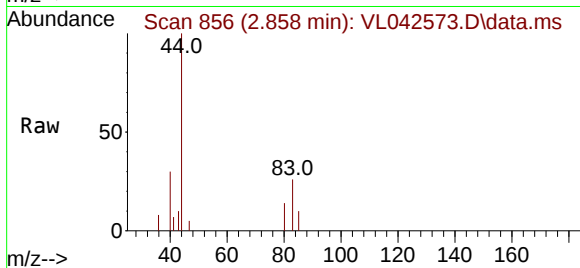
ClientSampleId :

Tgt Ion: 83 Resp: 185

Ion Ratio Lower Upper

83 100

85 37.8 51.6 77.4#



#30

Cyclohexane

Concen: 0.197 ppbv

RT: 3.972 min Scan# 1200

Delta R.T. 0.110 min

Lab File: VL042573.D

Acq: 22 May 2025 10:08

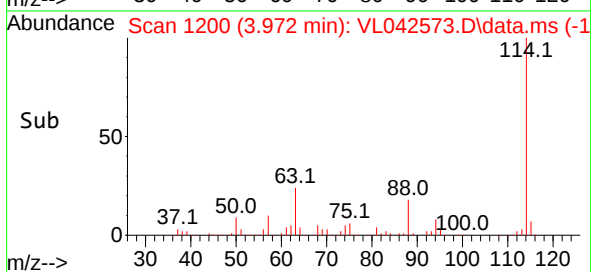
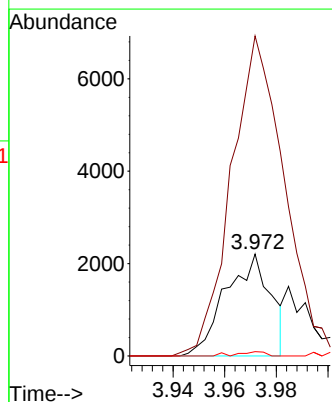
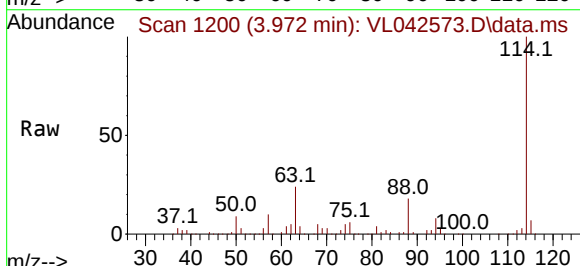
Tgt Ion: 84 Resp: 2675

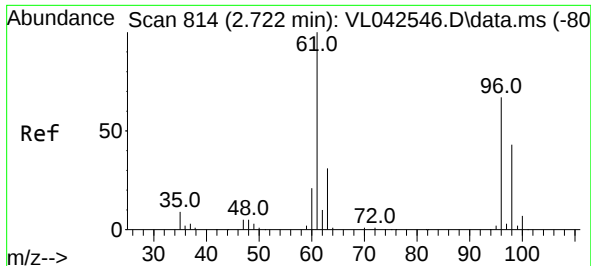
Ion Ratio Lower Upper

84 100

56 370.8 92.3 138.5#

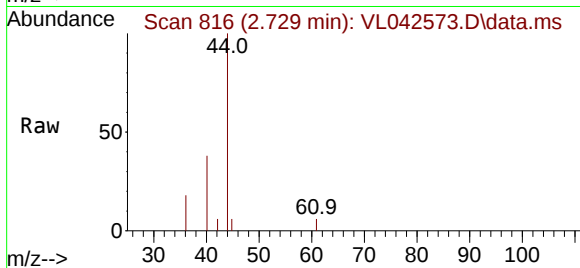
41 2.6 57.0 85.4#





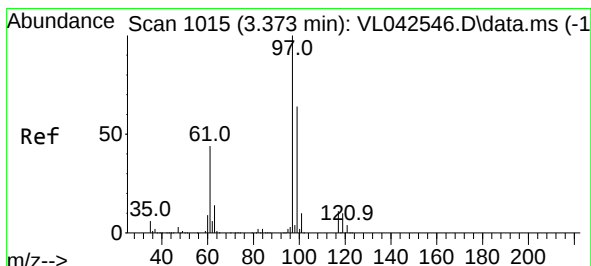
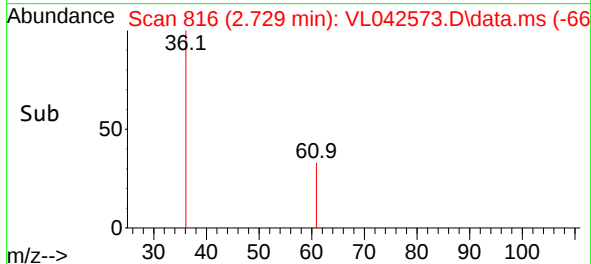
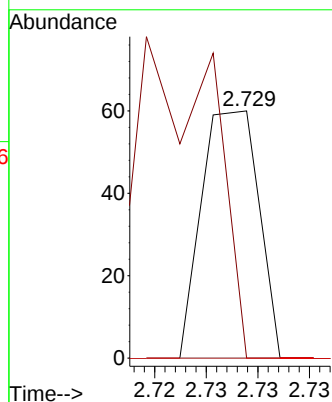
#31
 cis-1,2-Dichloroethene
 Concen: 0.001 ppbv
 RT: 2.729 min Scan# 814
 Delta R.T. 0.006 min
 Lab File: VL042573.D
 Acq: 22 May 2025 10:08

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion: 61 Resp: 23

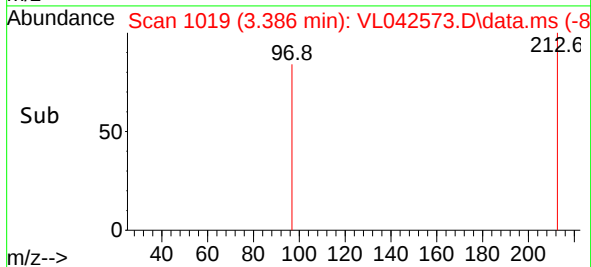
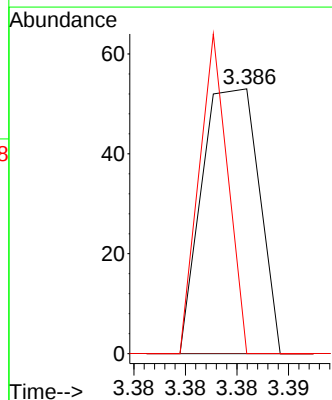
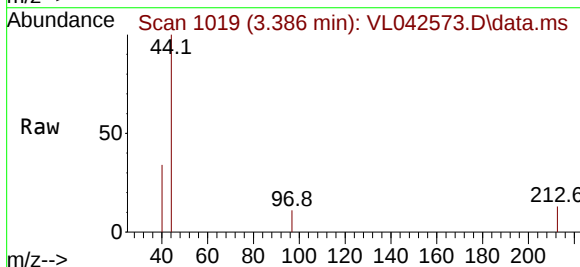
Ion	Ratio	Lower	Upper
61	100		
96	0.0	53.8	80.8#
98	0.0	34.5	51.7#

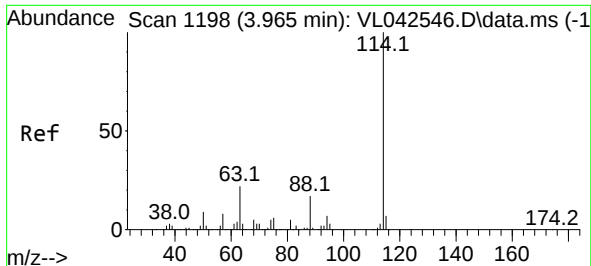


#32
 1,1,1-Trichloroethane
 Concen: 0.001 ppbv
 RT: 3.386 min Scan# 1019
 Delta R.T. 0.013 min
 Lab File: VL042573.D
 Acq: 22 May 2025 10:08

Tgt Ion: 97 Resp: 20

Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.5	77.3#
61	0.0	35.7	53.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.975 min Scan# 1198

Delta R.T. 0.010 min

Lab File: VL042573.D

Acq: 22 May 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

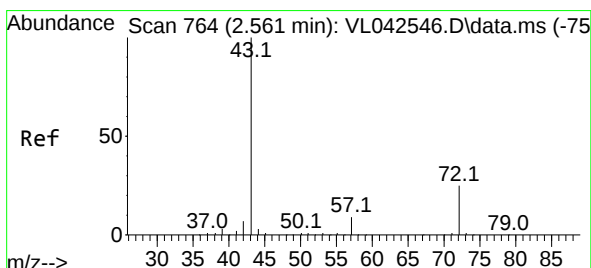
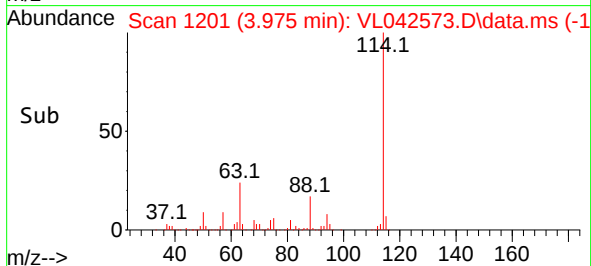
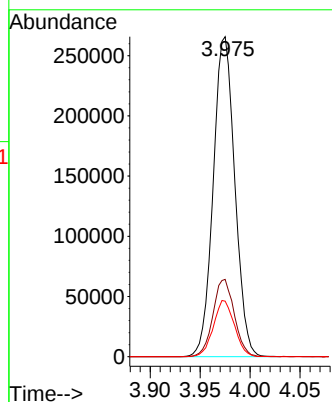
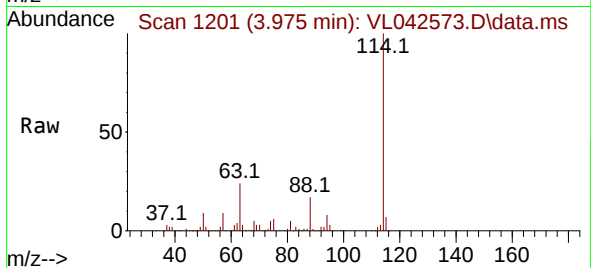
Tgt Ion:114 Resp: 399998

Ion Ratio Lower Upper

114 100

63 24.0 18.4 27.6

88 17.2 14.0 21.0



#34

2-Butanone

Concen: 0.034 ppbv

RT: 2.570 min Scan# 767

Delta R.T. 0.010 min

Lab File: VL042573.D

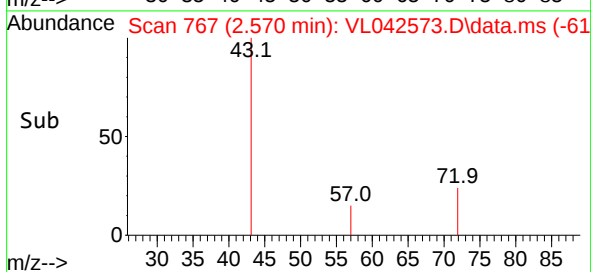
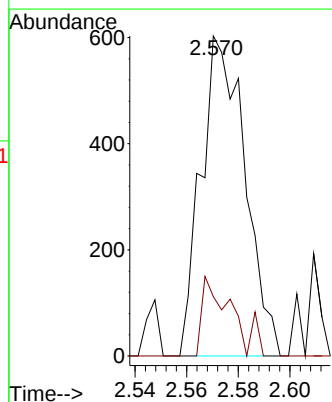
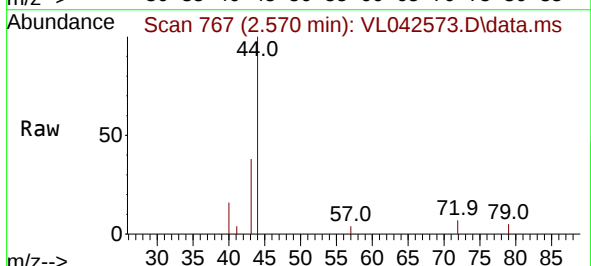
Acq: 22 May 2025 10:08

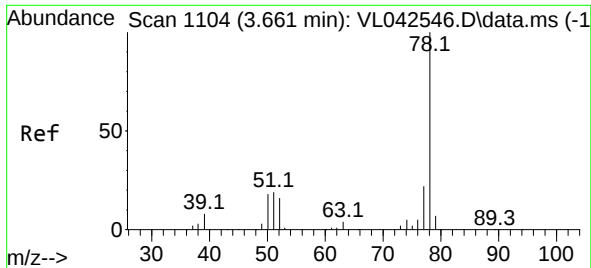
Tgt Ion: 43 Resp: 712

Ion Ratio Lower Upper

43 100

72 16.7 20.5 30.7#

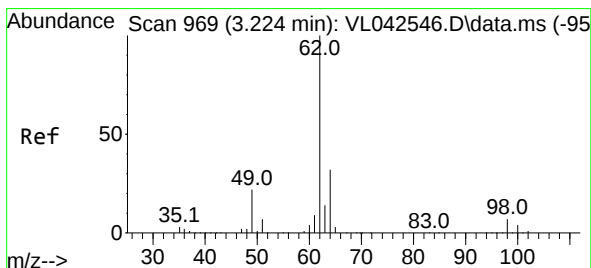
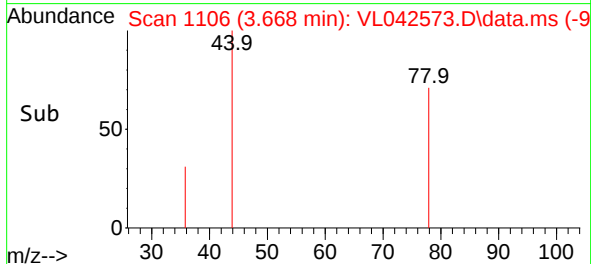
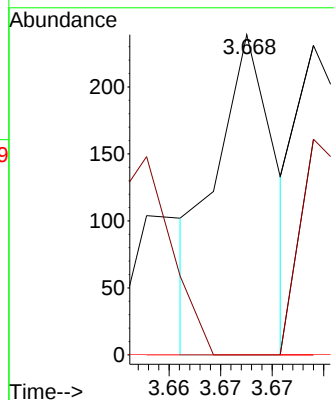
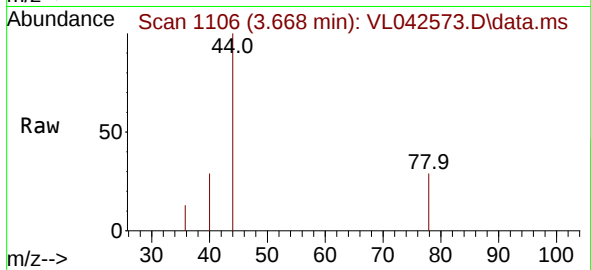




#36
Benzene
Concen: 0.003 ppbv
RT: 3.668 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

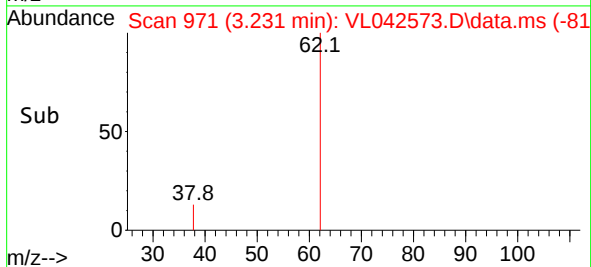
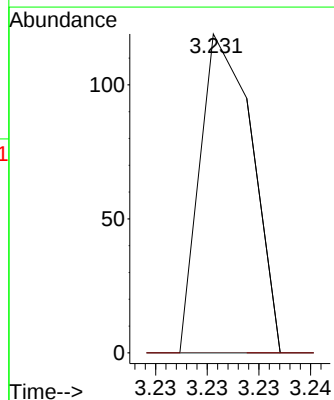
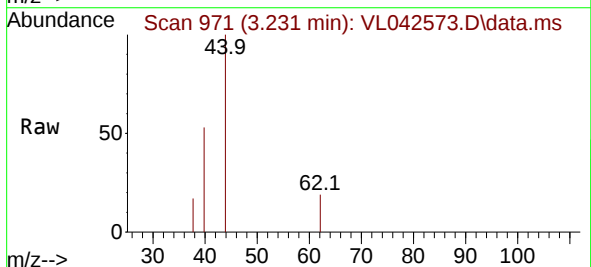
Instrument :
MSVOA_L
ClientSampleId :

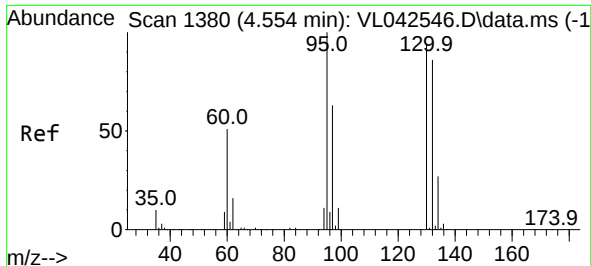
Tgt Ion: 78 Resp: 96
Ion Ratio Lower Upper
78 100
77 0.0 17.8 26.6#
50 0.0 14.0 21.0#



#37
1,2-Dichloroethane
Concen: 0.002 ppbv
RT: 3.231 min Scan# 971
Delta R.T. 0.006 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

Tgt Ion: 62 Resp: 42
Ion Ratio Lower Upper
62 100
98 0.0 5.5 8.3#





#38

Trichloroethene

Concen: 0.003 ppbv

RT: 4.558 min Scan# 11

Delta R.T. 0.003 min

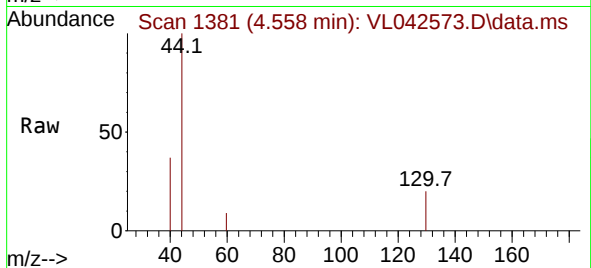
Lab File: VL042573.D

Acq: 22 May 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:130 Resp: 38

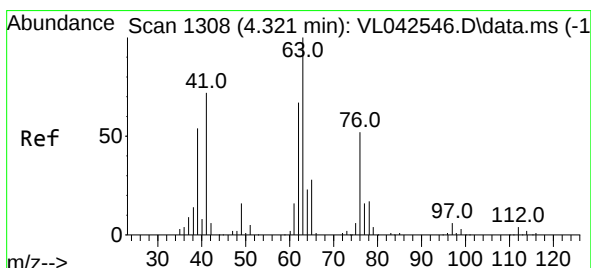
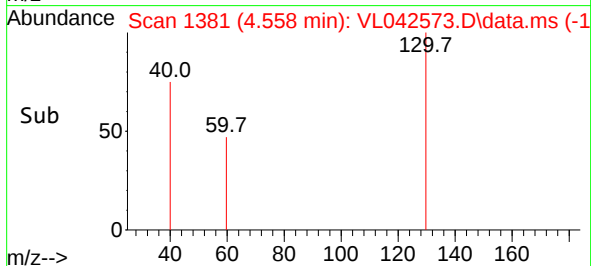
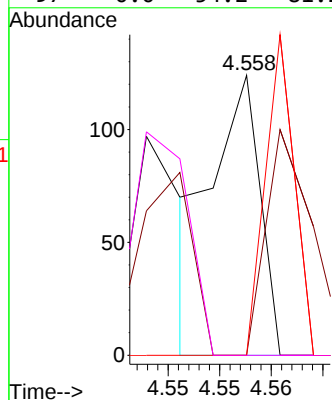
Ion Ratio Lower Upper

130 100

95 0.0 85.2 127.8#

132 0.0 73.4 110.2#

97 0.0 54.2 81.2#



#39

1,2-Dichloropropane

Concen: 8.410 ppbv

RT: 3.975 min Scan# 1201

Delta R.T. -0.346 min

Lab File: VL042573.D

Acq: 22 May 2025 10:08

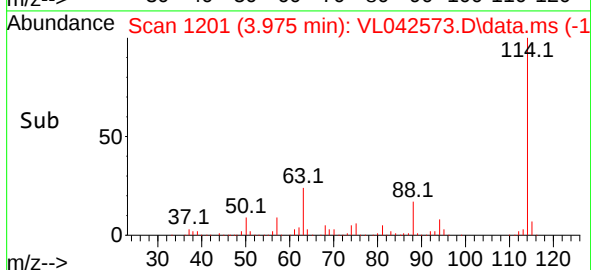
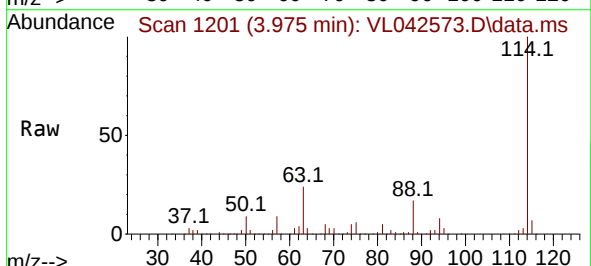
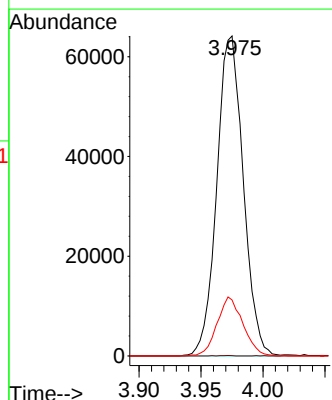
Tgt Ion: 63 Resp: 95551

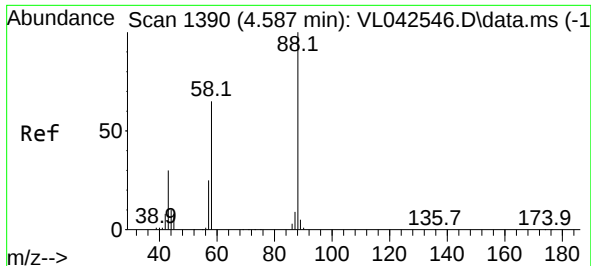
Ion Ratio Lower Upper

63 100

41 0.1 58.0 87.0#

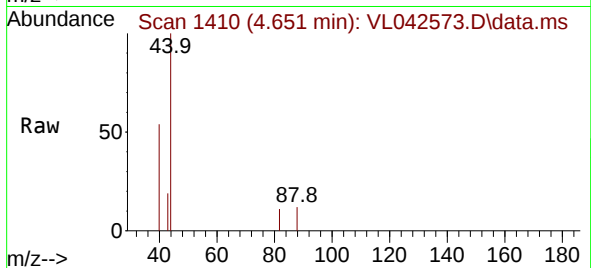
62 17.5 53.3 79.9#





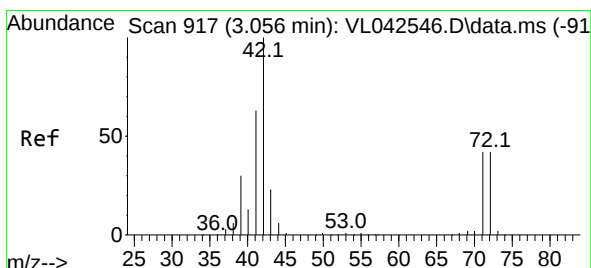
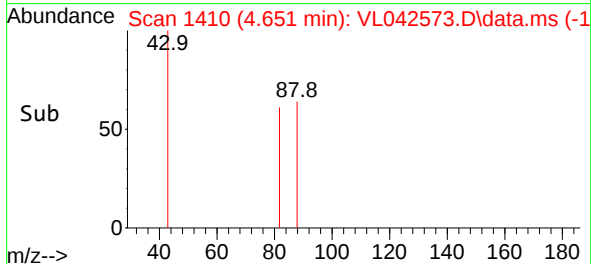
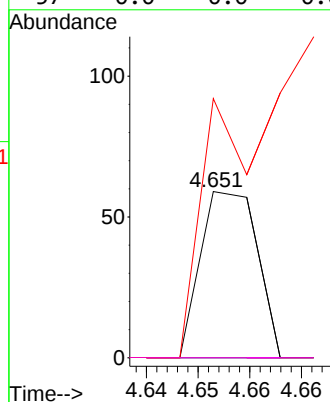
#40
1,4-Dioxane
Concen: 0.005 ppbv
RT: 4.651 min Scan# 14
Delta R.T. 0.065 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 88 Resp: 23

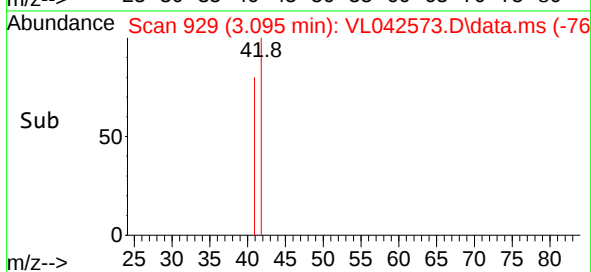
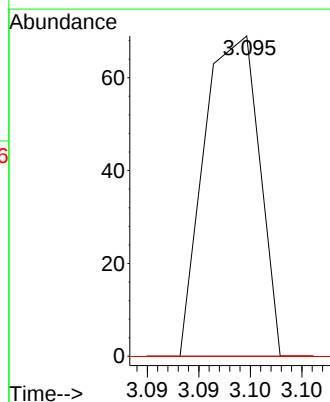
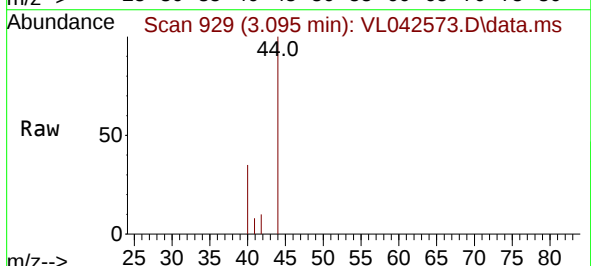
Ion	Ratio	Lower	Upper
88	100		
58	0.0	52.8	79.2#
43	308.7	23.0	34.4#
57	0.0	0.0	0.0

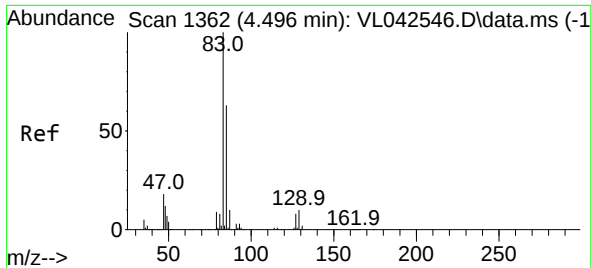


#41
Tetrahydrofuran
Concen: 0.003 ppbv
RT: 3.095 min Scan# 929
Delta R.T. 0.039 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

Tgt Ion: 42 Resp: 26

Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.8	52.2#
71	0.0	33.6	50.4#

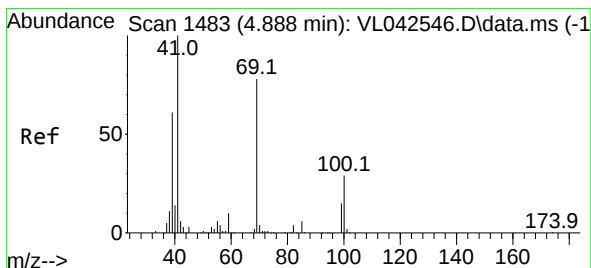
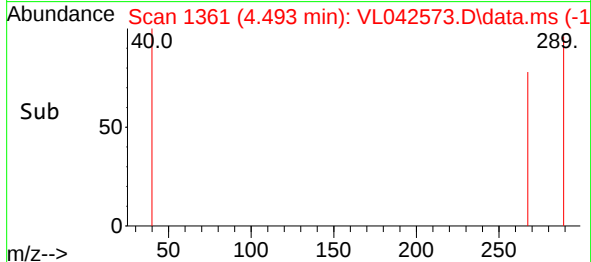
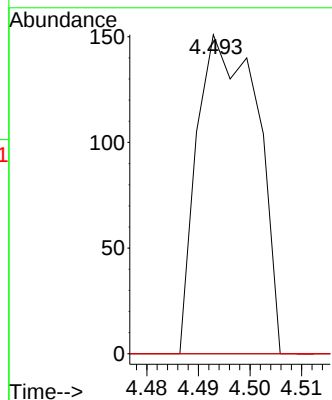
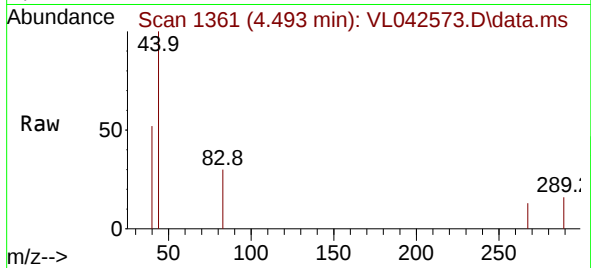




#42
Bromodichloromethane
Concen: 0.004 ppbv
RT: 4.493 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

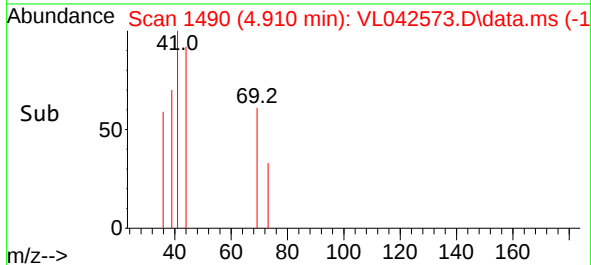
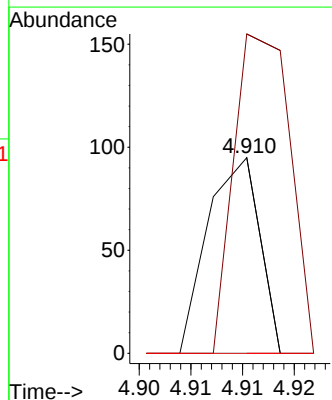
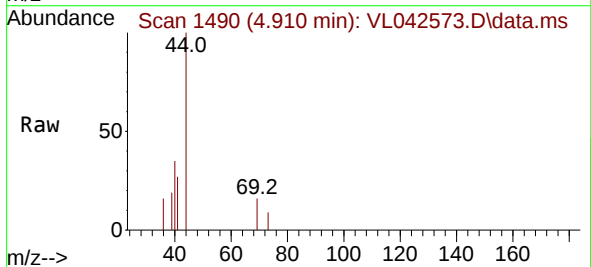
Instrument :
MSVOA_L
ClientSampleId :

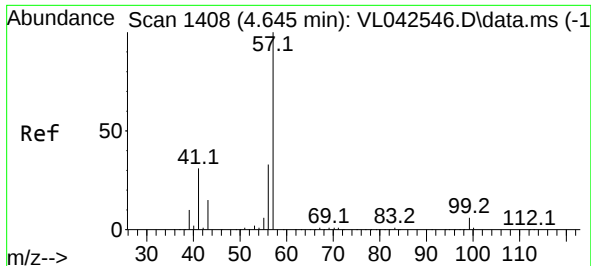
Tgt Ion: 83 Resp: 122
Ion Ratio Lower Upper
83 100
85 0.0 50.4 75.6#
127 0.0 6.5 9.7#



#43
Methyl Methacrylate
Concen: 0.003 ppbv
RT: 4.910 min Scan# 1490
Delta R.T. 0.023 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

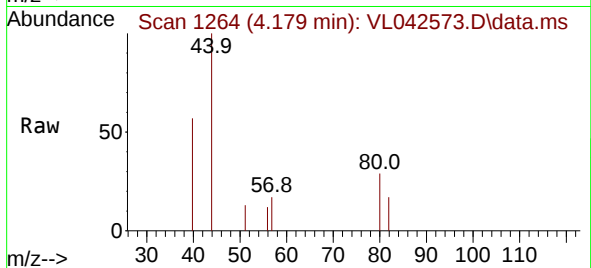
Tgt Ion: 69 Resp: 33
Ion Ratio Lower Upper
69 100
41 178.8 107.8 161.8#
100 0.0 30.3 45.5#





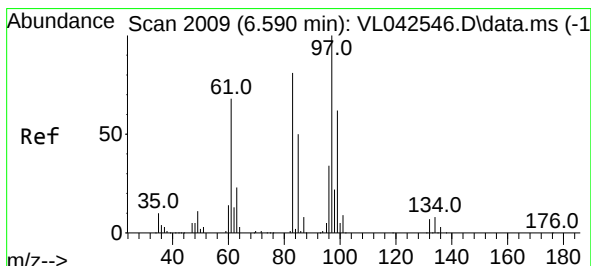
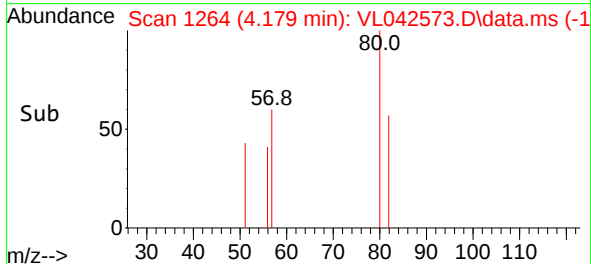
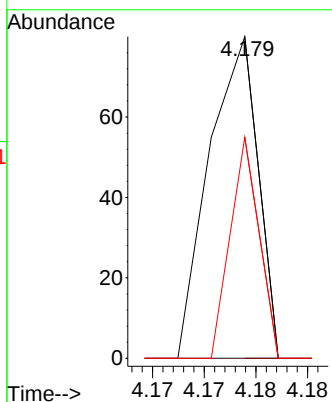
#44
 2,2,4-Trimethylpentane
 Concen: 0.001 ppbv
 RT: 4.179 min Scan# 11
 Delta R.T. -0.466 min
 Lab File: VL042573.D
 Acq: 22 May 2025 10:08

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion: 57 Resp: 26

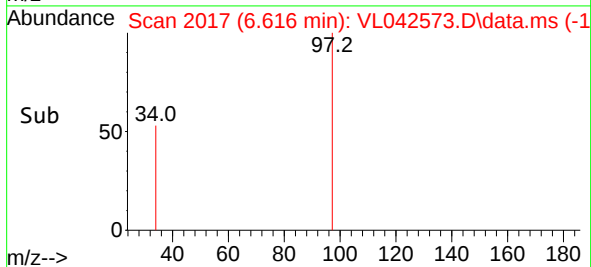
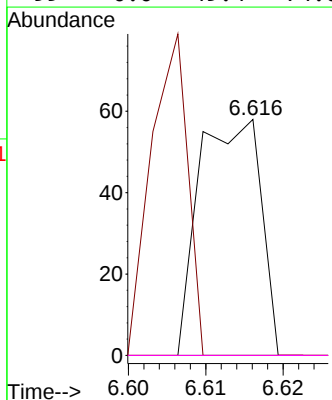
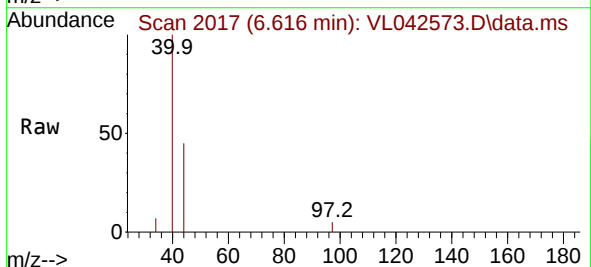
Ion	Ratio	Lower	Upper
57	100		
41	203.8	25.0	37.4#
56	0.0	25.1	37.7#

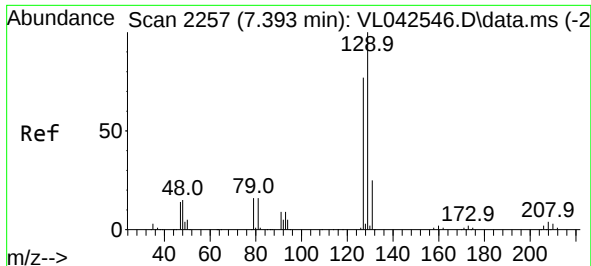


#47
 1,1,2-Trichloroethane
 Concen: 0.002 ppbv
 RT: 6.616 min Scan# 2017
 Delta R.T. 0.026 min
 Lab File: VL042573.D
 Acq: 22 May 2025 10:08

Tgt Ion: 97 Resp: 32

Ion	Ratio	Lower	Upper
97	100		
83	0.0	65.0	97.4#
85	0.0	39.9	59.9#
99	0.0	49.4	74.0#





#48

Dibromochloromethane

Concen: 0.003 ppbv

RT: 7.403 min Scan# 21

Delta R.T. 0.010 min

Lab File: VL042573.D

Acq: 22 May 2025 10:08

Instrument :

MSVOA_L

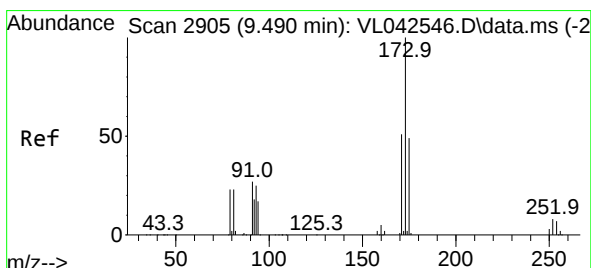
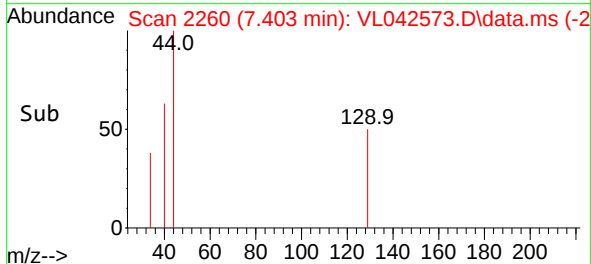
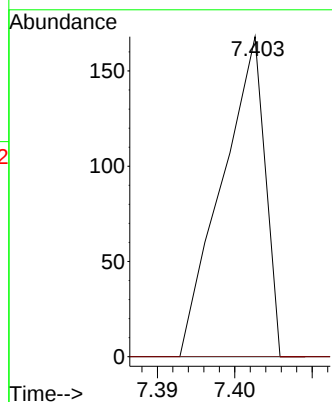
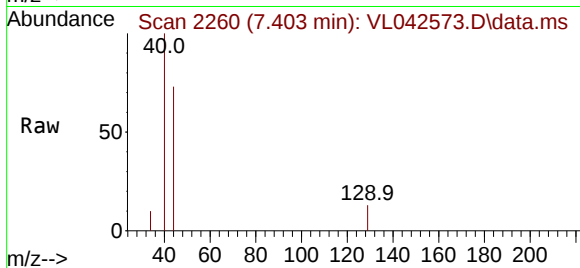
ClientSampleId :

Tgt Ion:129 Resp: 65

Ion Ratio Lower Upper

129 100

127 0.0 39.0 117.0#



#49

Bromoform

Concen: 0.004 ppbv

RT: 9.500 min Scan# 2908

Delta R.T. 0.010 min

Lab File: VL042573.D

Acq: 22 May 2025 10:08

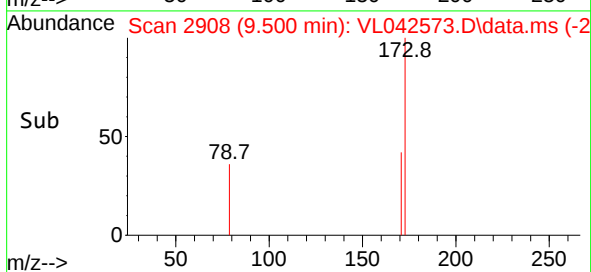
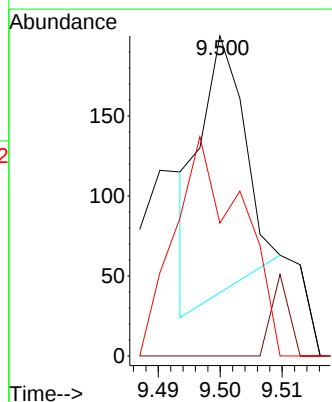
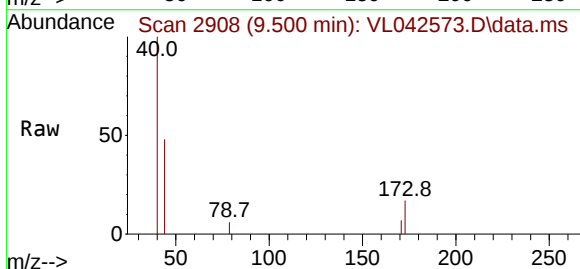
Tgt Ion:173 Resp: 80

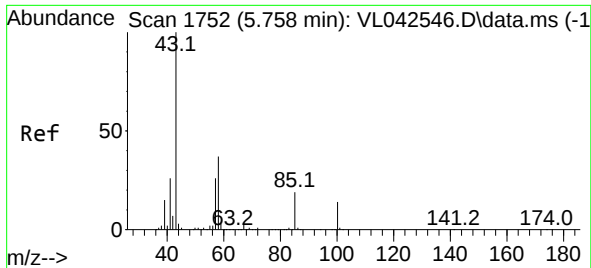
Ion Ratio Lower Upper

173 100

175 0.0 39.2 58.8#

171 128.8 41.9 62.9#





#50

4-Methyl-2-Pentanone

Concen: 0.002 ppbv

RT: 5.775 min Scan# 11

Delta R.T. 0.016 min

Lab File: VL042573.D

Acq: 22 May 2025 10:08

Instrument :

MSVOA_L

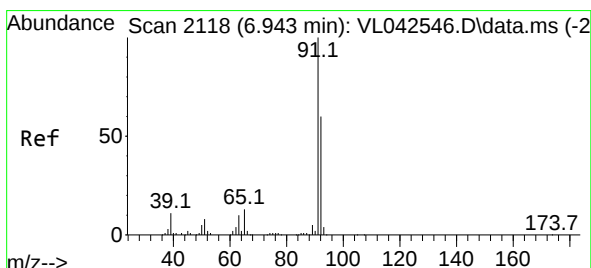
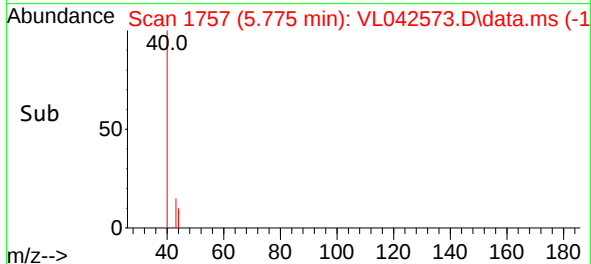
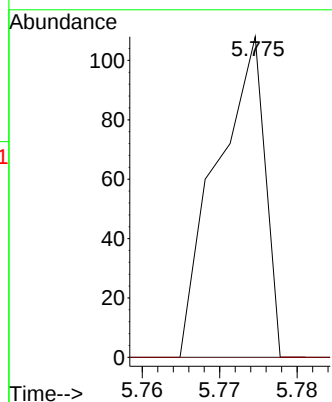
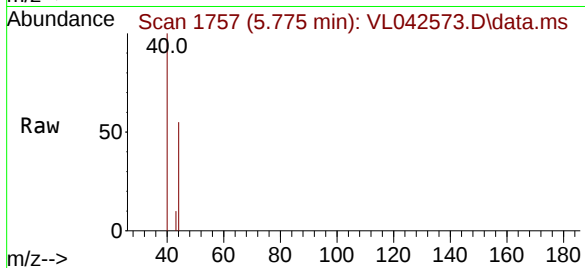
ClientSampleId :

Tgt Ion: 43 Resp: 47

Ion Ratio Lower Upper

43 100

58 0.0 30.0 45.0#



#53

Toluene

Concen: 0.001 ppbv

RT: 6.962 min Scan# 2124

Delta R.T. 0.019 min

Lab File: VL042573.D

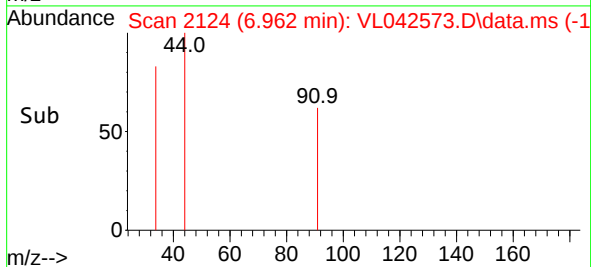
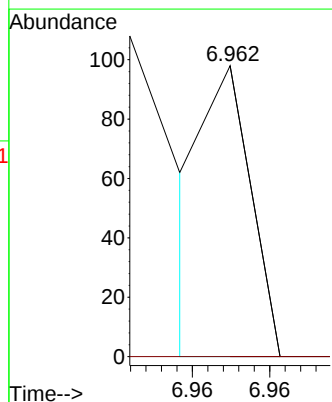
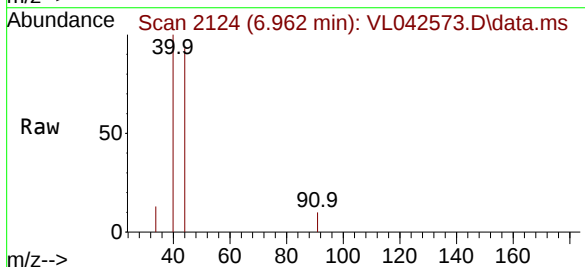
Acq: 22 May 2025 10:08

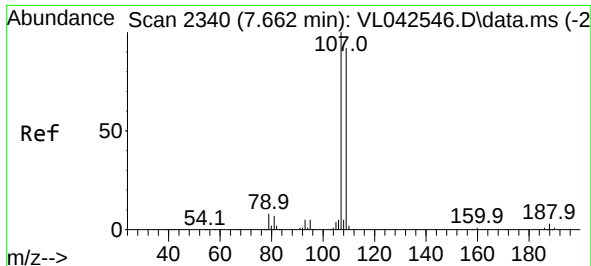
Tgt Ion: 91 Resp: 19

Ion Ratio Lower Upper

91 100

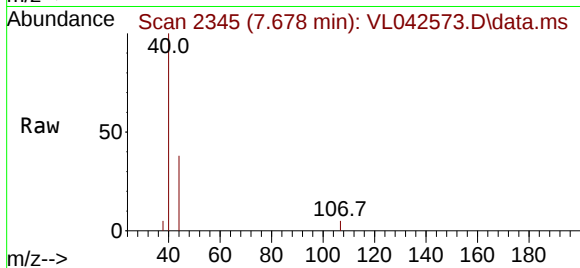
92 0.0 47.8 71.8#



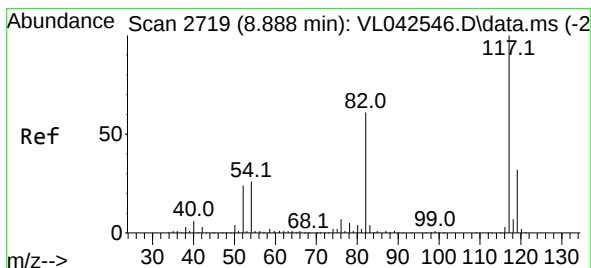
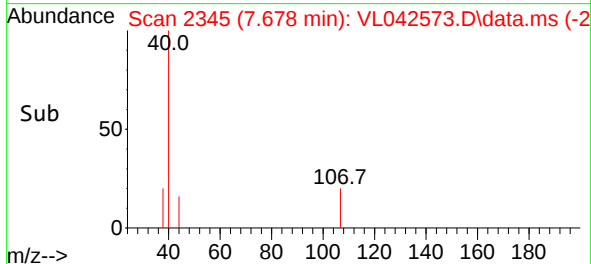
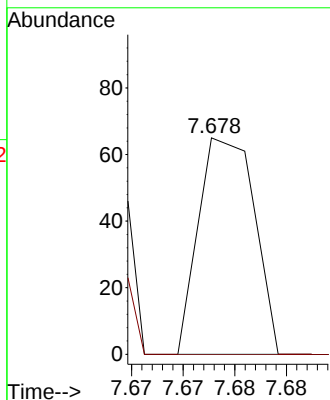


#54
1,2-Dibromoethane
Concen: 0.001 ppbv
RT: 7.678 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :

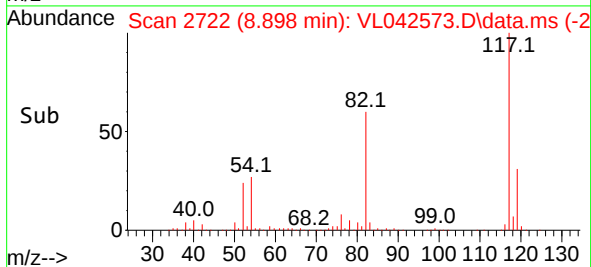
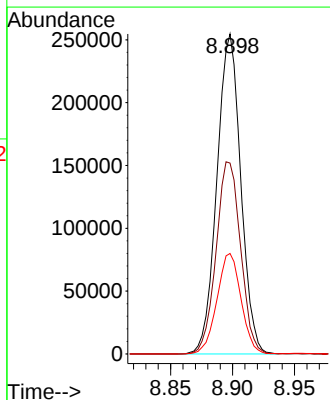
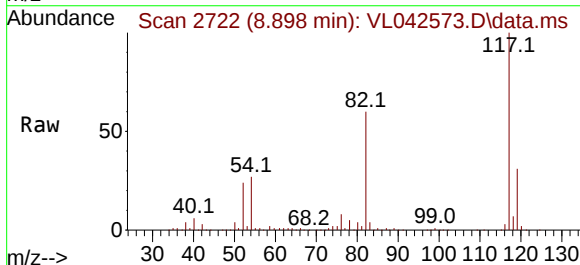


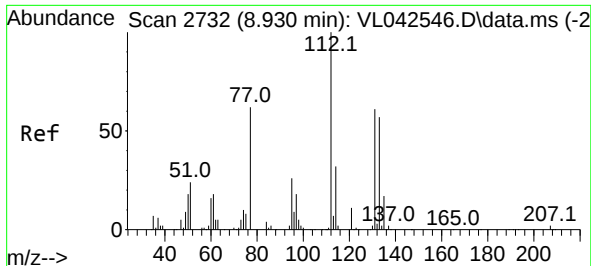
Tgt Ion:107 Resp: 24
Ion Ratio Lower Upper
107 100
109 0.0 73.4 110.2#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2722
Delta R.T. 0.010 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

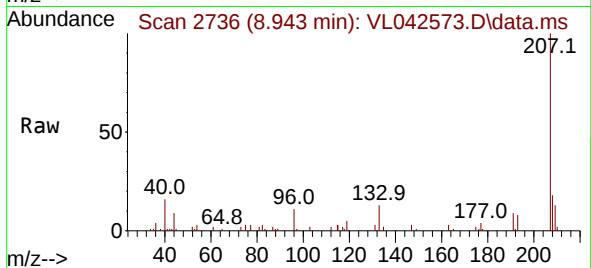
Tgt Ion:117 Resp: 341603
Ion Ratio Lower Upper
117 100
82 61.8 51.0 76.4
119 31.8 27.0 40.4



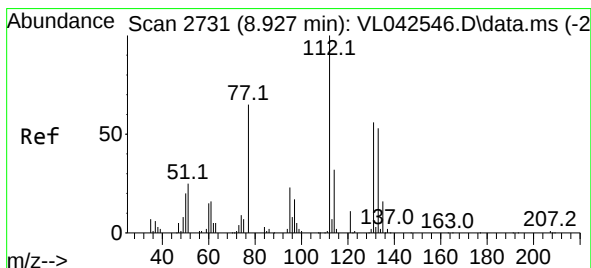
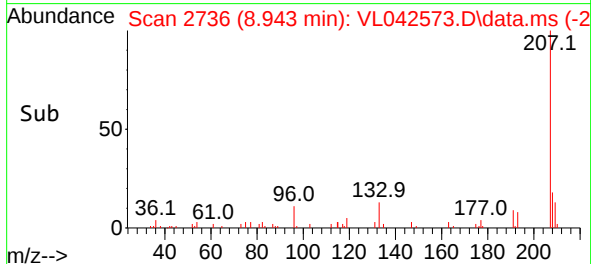
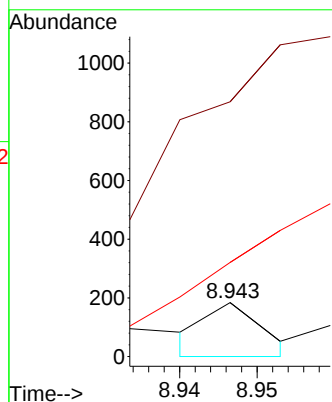


#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.003 ppbv
 RT: 8.943 min Scan# 21
 Delta R.T. 0.013 min
 Lab File: VL042573.D
 Acq: 22 May 2025 10:08

Instrument :
 MSVOA_L
 ClientSampleId :

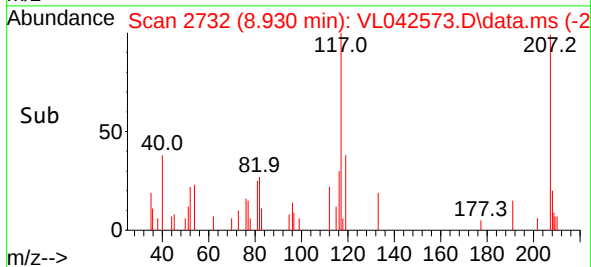
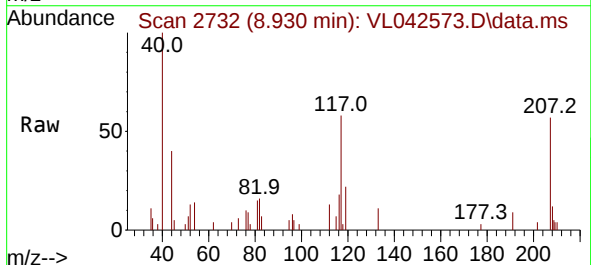
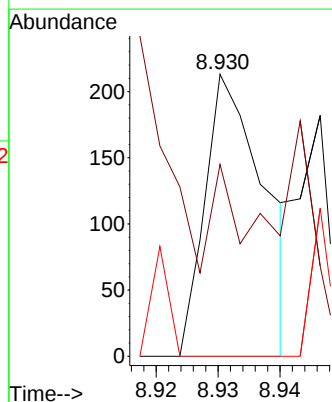


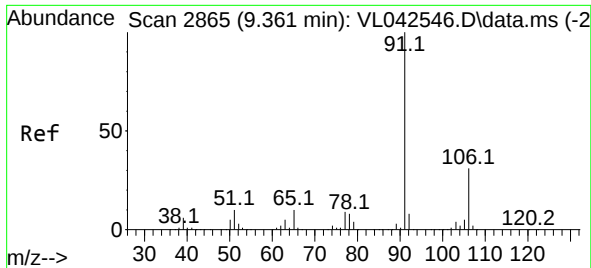
Tgt Ion:131 Resp: 46
 Ion Ratio Lower Upper
 131 100
 133 0.0 76.3 114.5#
 119 0.0 47.5 71.3#



#57
 Chlorobenzene
 Concen: 0.005 ppbv
 RT: 8.930 min Scan# 2732
 Delta R.T. 0.003 min
 Lab File: VL042573.D
 Acq: 22 May 2025 10:08

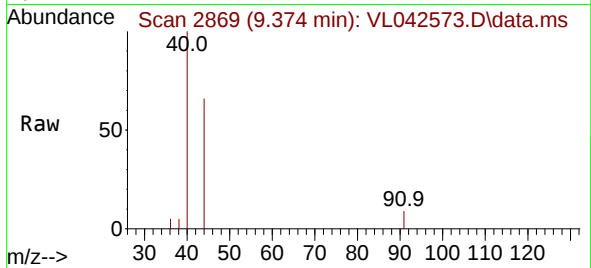
Tgt Ion:112 Resp: 142
 Ion Ratio Lower Upper
 112 100
 77 25.4 53.2 79.8#
 114 0.0 28.4 34.8#



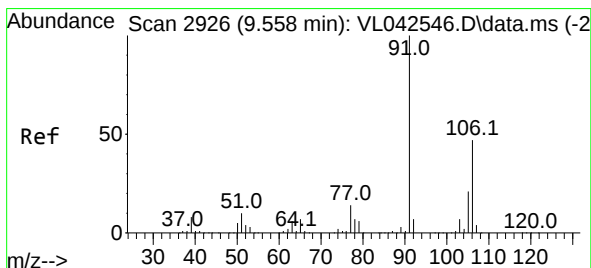
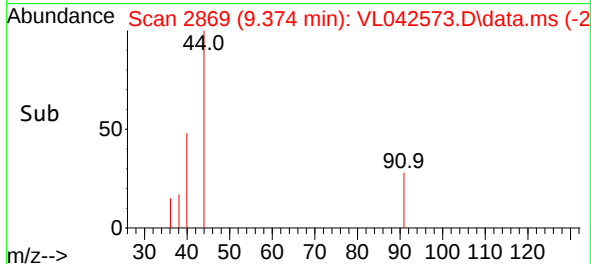
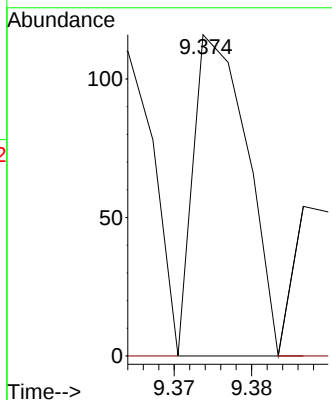


#58
 Ethyl Benzene
 Concen: 0.001 ppbv
 RT: 9.374 min Scan# 21
 Delta R.T. 0.013 min
 Lab File: VL042573.D
 Acq: 22 May 2025 10:08

Instrument :
 MSVOA_L
 ClientSampleId :

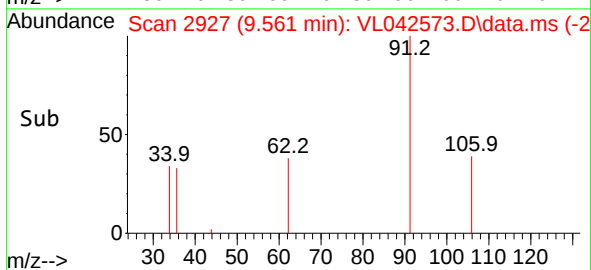
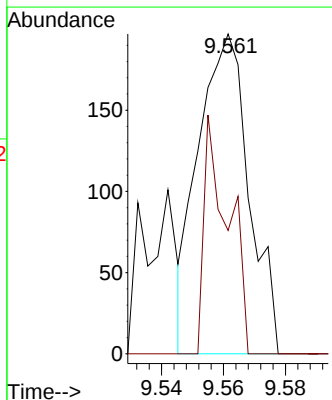
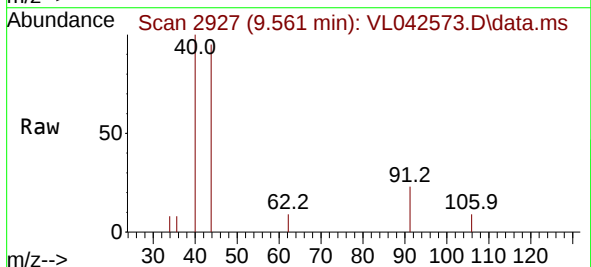


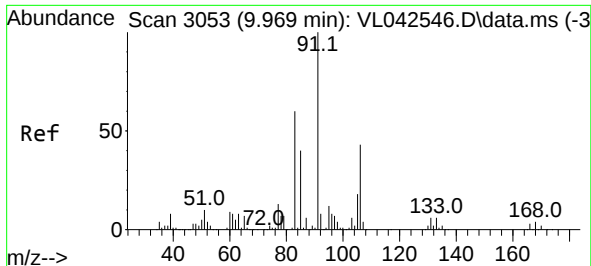
Tgt Ion: 91 Resp: 56
 Ion Ratio Lower Upper
 91 100
 106 0.0 24.6 37.0#



#59
 m/p-Xylene
 Concen: 0.006 ppbv
 RT: 9.561 min Scan# 2927
 Delta R.T. 0.003 min
 Lab File: VL042573.D
 Acq: 22 May 2025 10:08

Tgt Ion: 91 Resp: 224
 Ion Ratio Lower Upper
 91 100
 106 35.3 37.1 55.7#

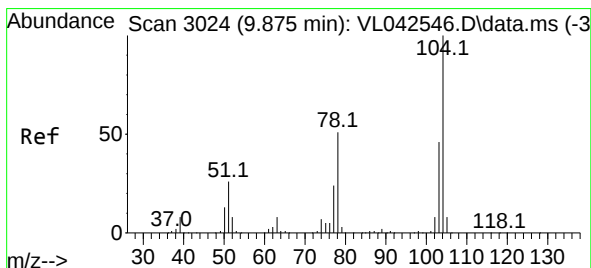
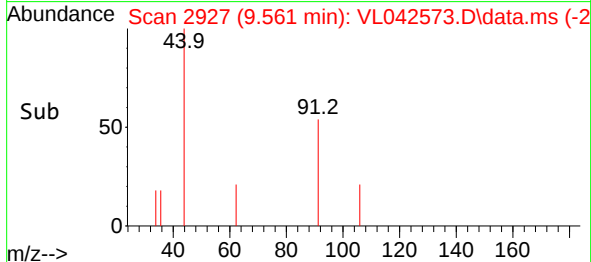
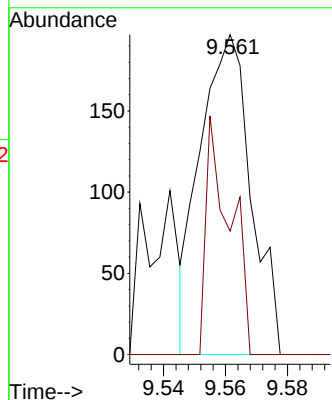
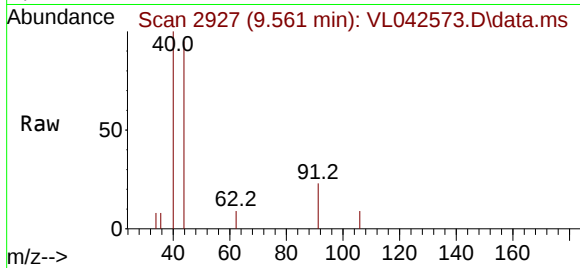




#60
o-Xylene
Concen: 0.006 ppbv
RT: 9.561 min Scan# 2927
Delta R.T. -0.408 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

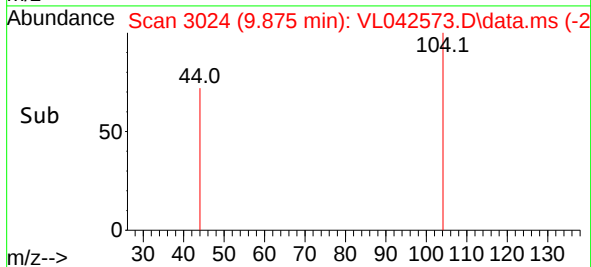
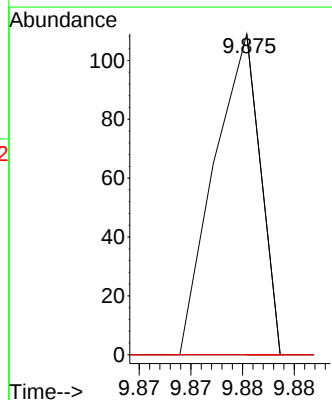
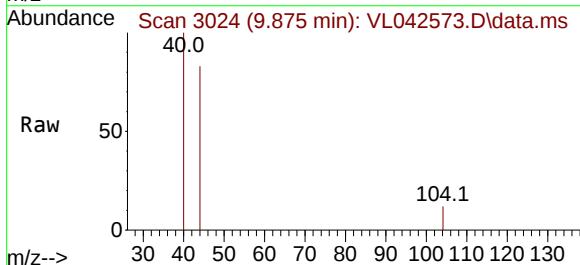
Instrument :
MSVOA_L
ClientSampleId :

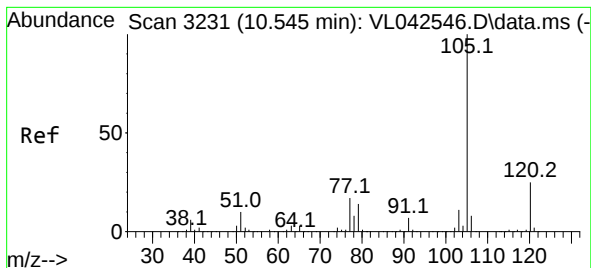
Tgt Ion: 91 Resp: 224
Ion Ratio Lower Upper
91 100
106 35.3 21.6 64.8



#61
Styrene
Concen: 0.002 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. -0.000 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

Tgt Ion:104 Resp: 34
Ion Ratio Lower Upper
104 100
78 0.0 39.2 58.8#
103 0.0 37.1 55.7#





#62

Isopropylbenzene

Concen: 0.004 ppbv

RT: 10.555 min Scan# 31

Delta R.T. 0.010 min

Lab File: VL042573.D

Acq: 22 May 2025 10:08

Instrument :

MSVOA_L

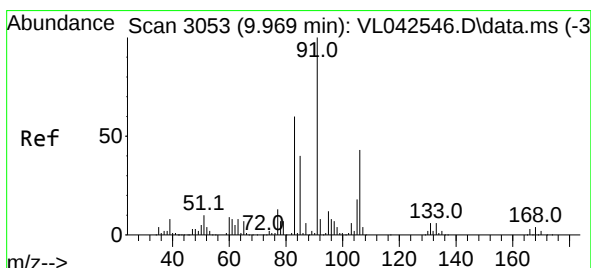
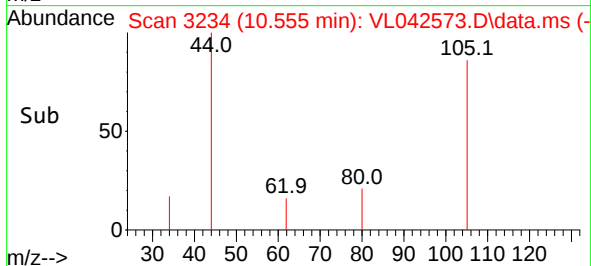
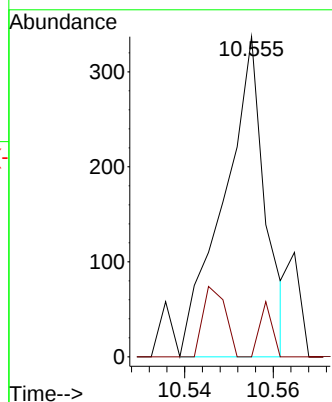
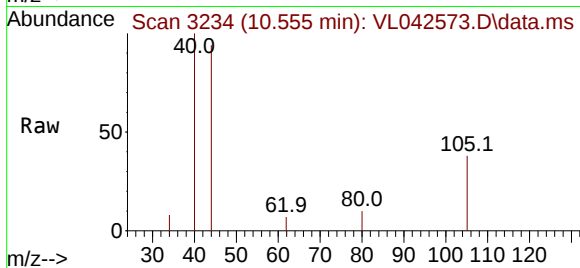
ClientSampleId :

Tgt Ion:105 Resp: 218

Ion Ratio Lower Upper

105 100

120 0.0 20.0 30.0#



#63

1,1,2,2-Tetrachloroethane

Concen: 0.005 ppbv

RT: 9.979 min Scan# 3056

Delta R.T. 0.010 min

Lab File: VL042573.D

Acq: 22 May 2025 10:08

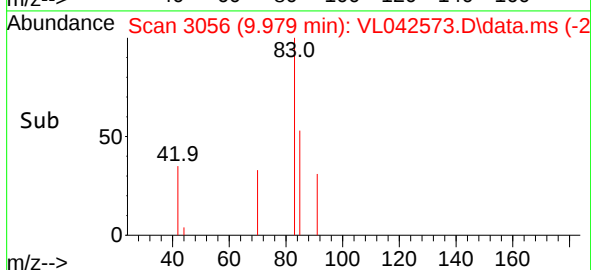
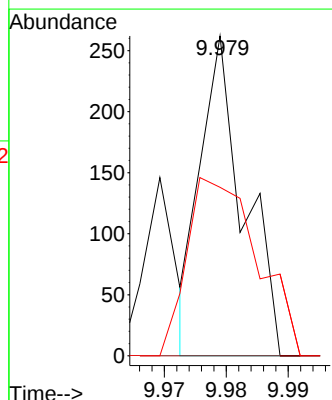
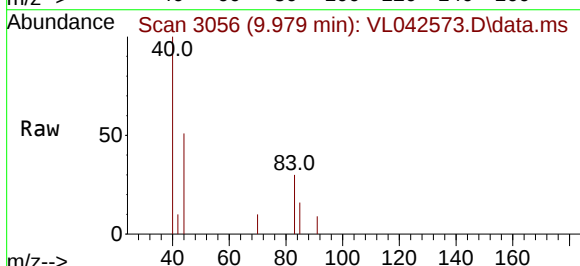
Tgt Ion: 83 Resp: 127

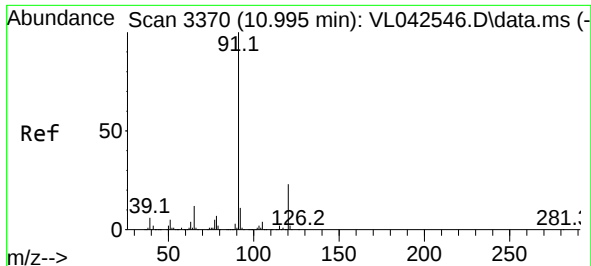
Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

85 90.6 32.5 97.4

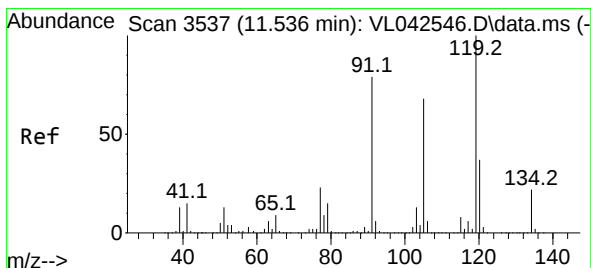
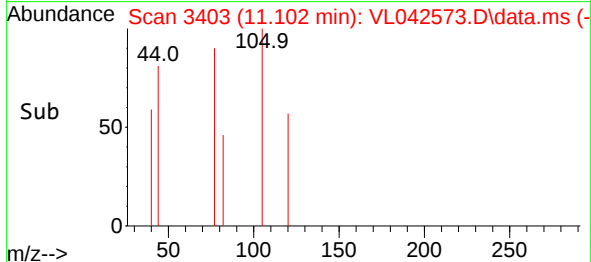
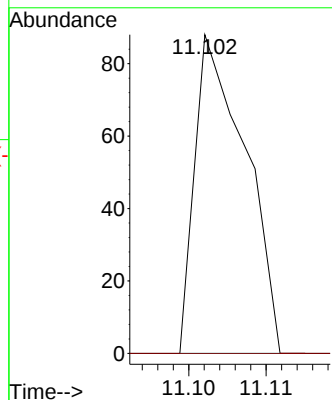
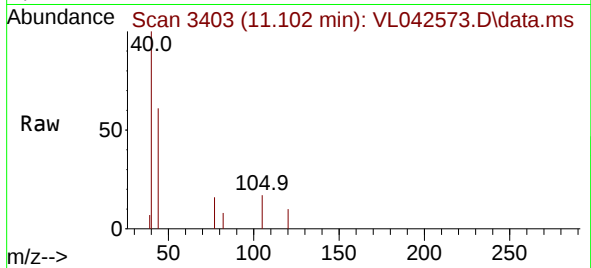




#64
n-propylbenzene
Concen: 0.003 ppbv
RT: 11.102 min Scan# 3403
Delta R.T. 0.107 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

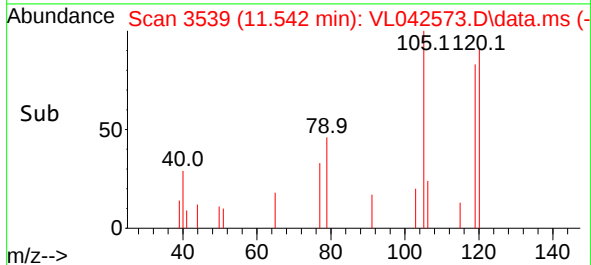
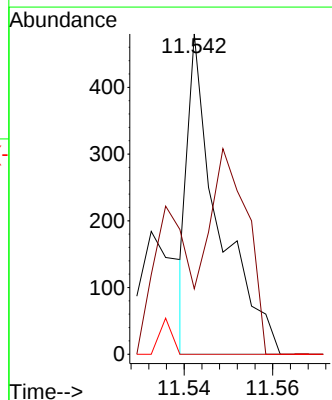
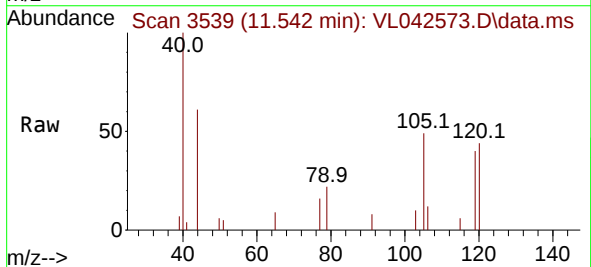
Instrument :
MSVOA_L
ClientSampleId :

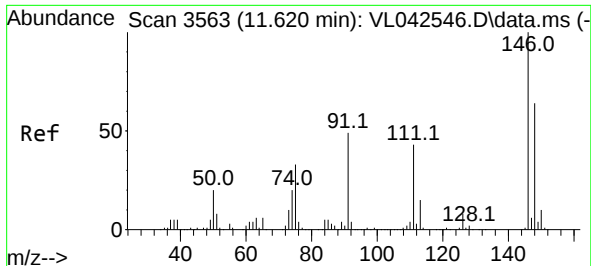
Tgt Ion:120 Resp: 40
Ion Ratio Lower Upper
120 100
91 735.0 367.0 550.4#



#65
tert-Butylbenzene
Concen: 0.004 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.006 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

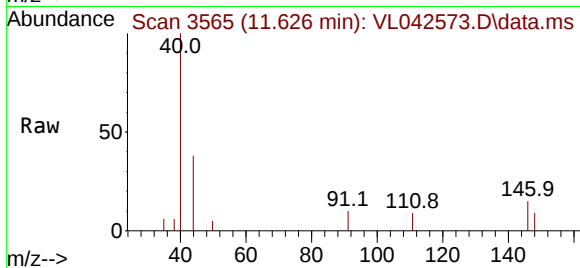
Tgt Ion:119 Resp: 230
Ion Ratio Lower Upper
119 100
91 131.7 62.7 94.1#
134 0.0 16.8 25.2#



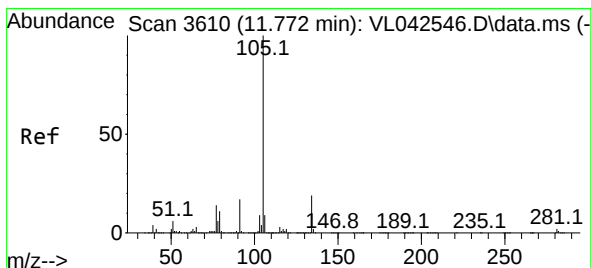
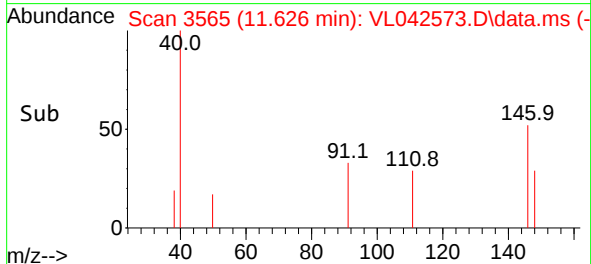
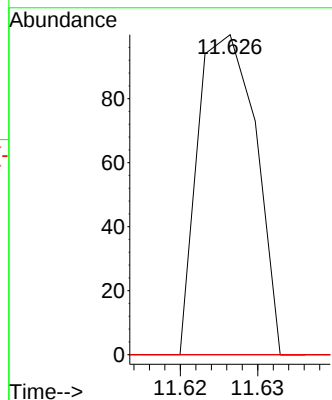


#66
Benzyl Chloride
Concen: 0.008 ppbv
RT: 11.626 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :

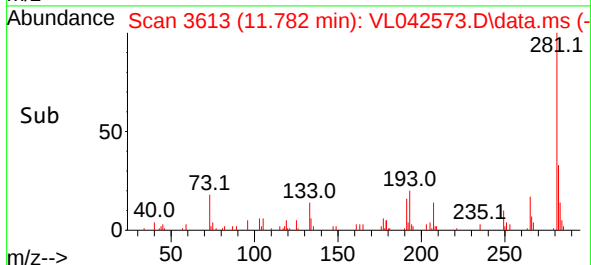
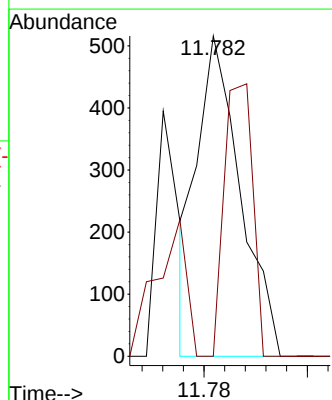
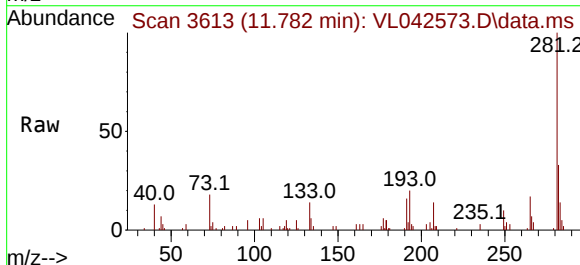


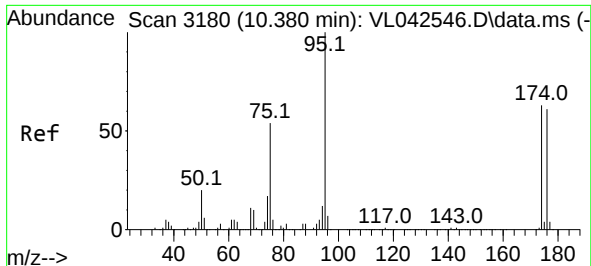
Tgt Ion: 91 Resp: 52
Ion Ratio Lower Upper
91 100
126 0.0 14.2 21.2#
128 0.0 4.6 6.8#



#67
sec-Butylbenzene
Concen: 0.004 ppbv
RT: 11.782 min Scan# 3613
Delta R.T. 0.010 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

Tgt Ion: 105 Resp: 297
Ion Ratio Lower Upper
105 100
134 87.2 15.4 23.2#

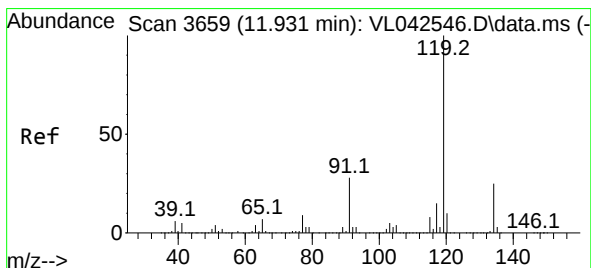
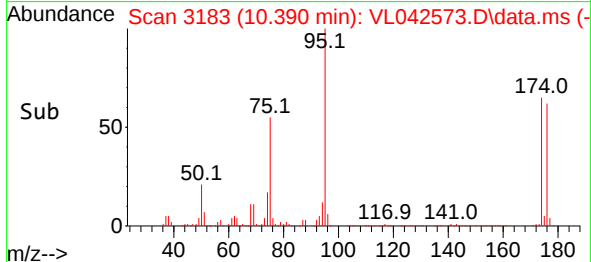
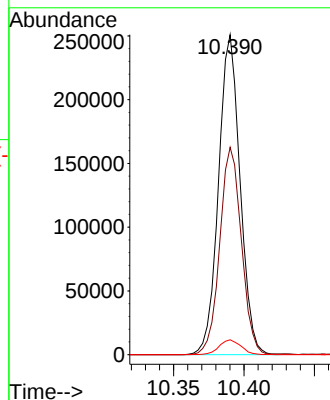
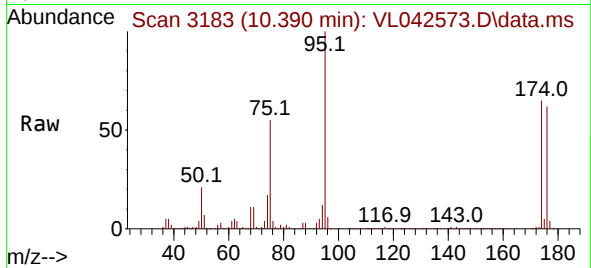




#68
1-Bromo-4-Fluorobenzene
Concen: 9.771 ppbv
RT: 10.390 min Scan# 3180
Delta R.T. 0.010 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

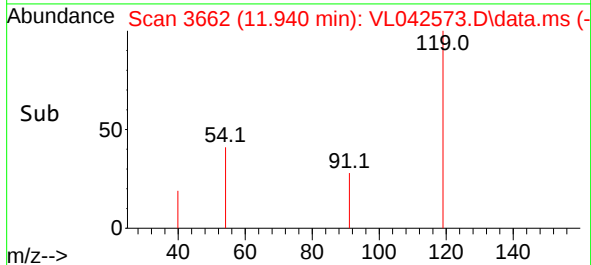
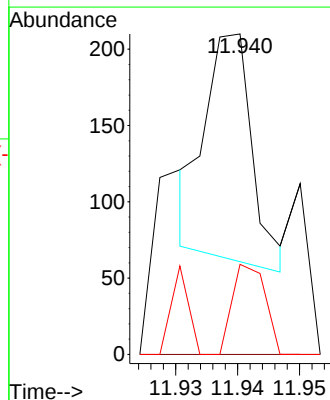
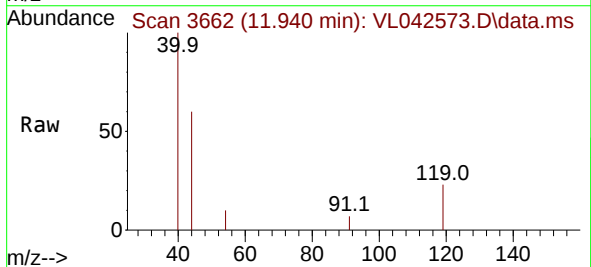
Instrument :
MSVOA_L
ClientSampleId :

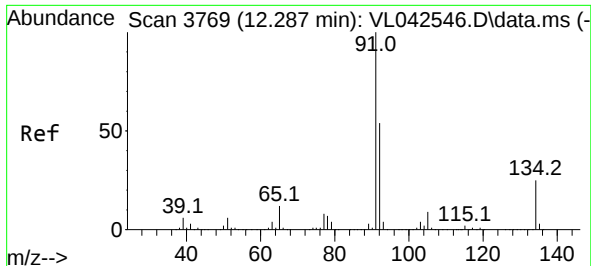
Tgt Ion: 95 Resp: 267146
Ion Ratio Lower Upper
95 100
174 65.2 52.0 78.0
175 4.7 3.8 5.6



#69
p-Isopropyltoluene
Concen: 0.001 ppbv
RT: 11.940 min Scan# 3662
Delta R.T. 0.010 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

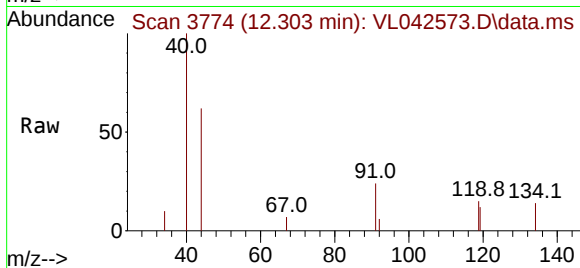
Tgt Ion: 119 Resp: 76
Ion Ratio Lower Upper
119 100
134 0.0 20.1 30.1#
91 0.0 22.3 33.5#



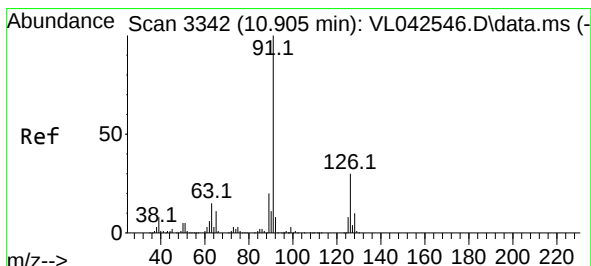
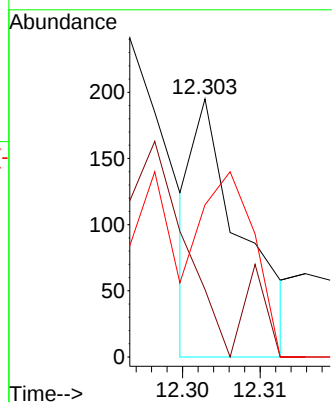
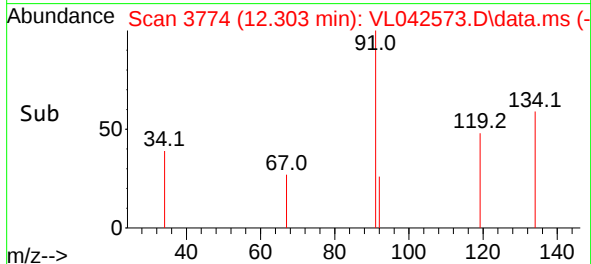


#70
n-Butylbenzene
Concen: 0.001 ppbv
RT: 12.303 min Scan# 31
Delta R.T. 0.016 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

Instrument :
MSVOA_L
ClientSampleId :

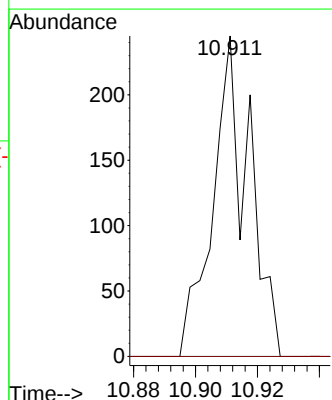
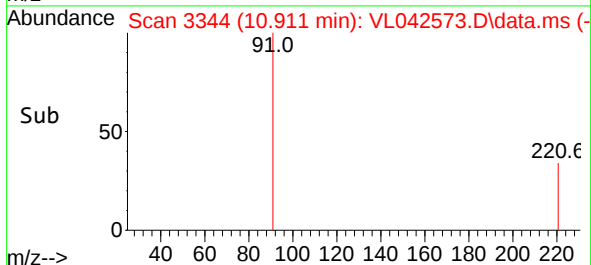
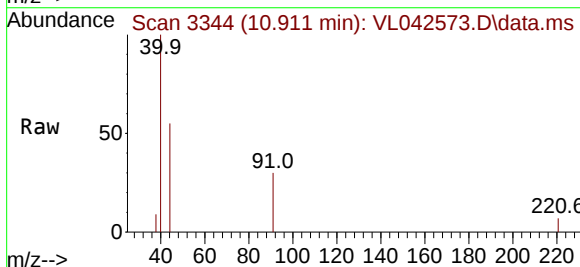


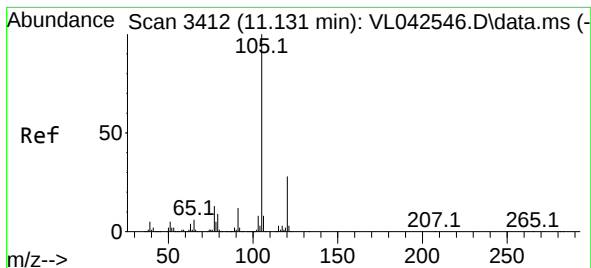
Tgt Ion: 91 Resp: 84
Ion Ratio Lower Upper
91 100
92 0.0 43.8 65.6#
134 0.0 19.7 29.5#



#71
2-Chlorotoluene
Concen: 0.005 ppbv
RT: 10.911 min Scan# 3344
Delta R.T. 0.006 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

Tgt Ion: 91 Resp: 198
Ion Ratio Lower Upper
91 100
126 0.0 12.4 49.4#

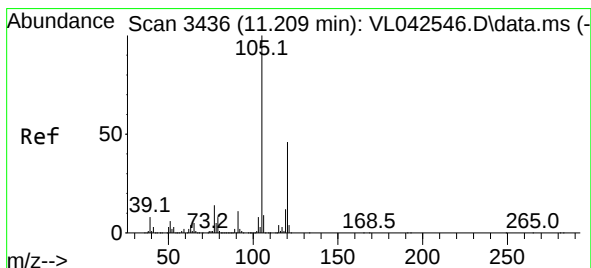
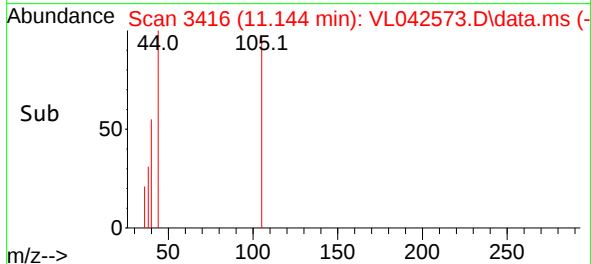
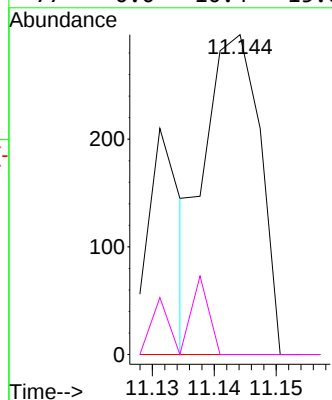
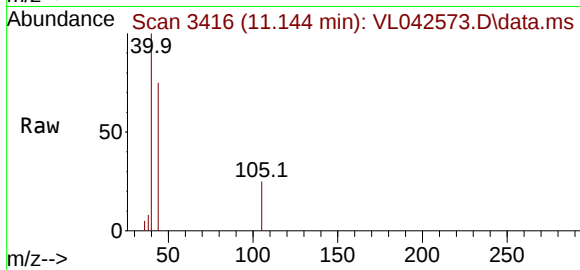




#72
4-Ethyltoluene
Concen: 0.004 ppbv
RT: 11.144 min Scan# 3412
Delta R.T. 0.013 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

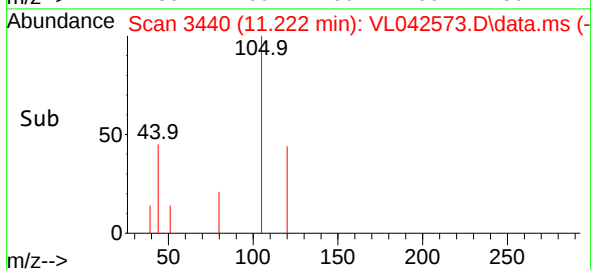
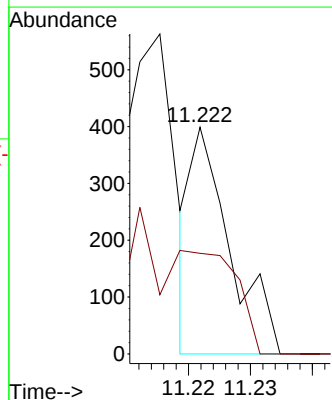
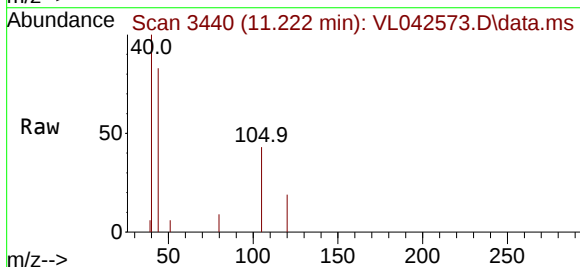
Instrument :
MSVOA_L
ClientSampleId :

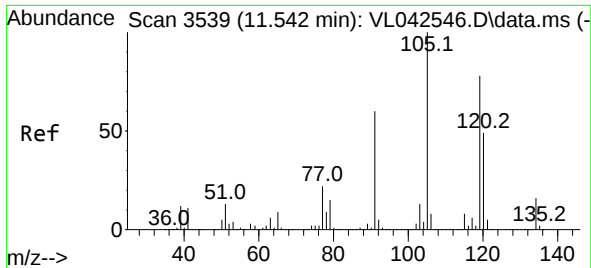
Tgt Ion:	105	Resp:	182
Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.4	35.0#
91	0.0	10.2	15.4#
77	0.0	10.4	15.6#



#73
1,3,5-Trimethylbenzene
Concen: 0.004 ppbv
RT: 11.222 min Scan# 3440
Delta R.T. 0.013 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

Tgt Ion:	105	Resp:	173
Ion	Ratio	Lower	Upper
105	100		
120	44.4	36.5	54.7

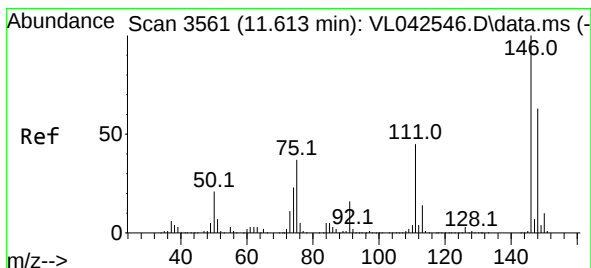
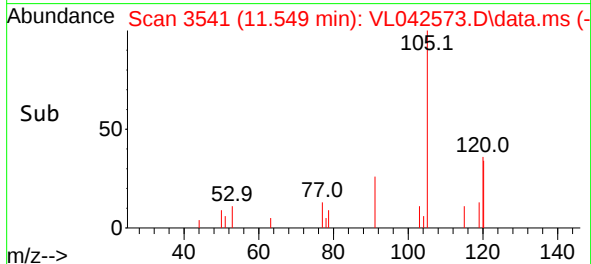
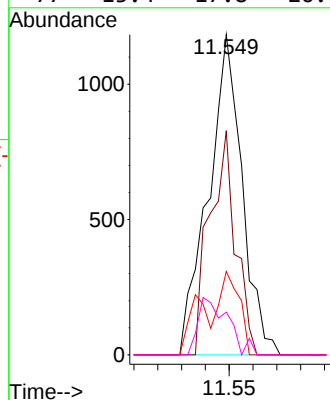
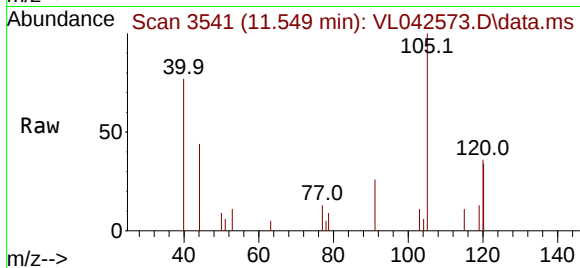




#74
1,2,4-Trimethylbenzene
Concen: 0.024 ppbv
RT: 11.549 min Scan# 3541
Delta R.T. 0.006 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

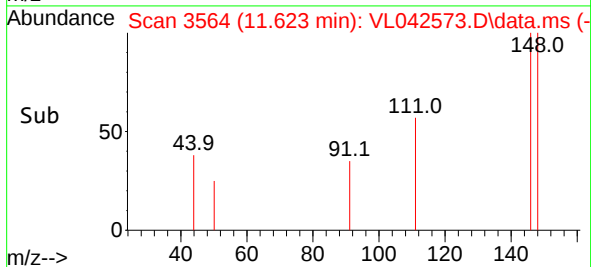
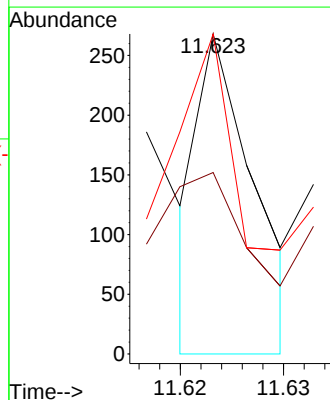
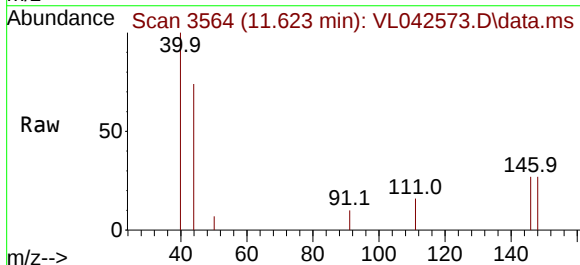
Instrument :
MSVOA_L
ClientSampleId :

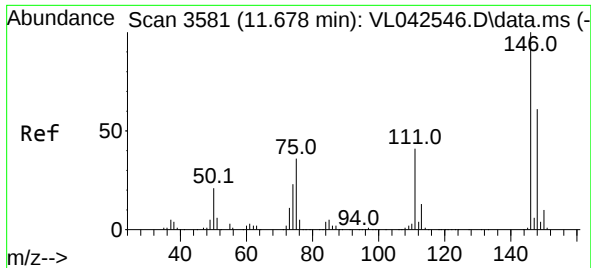
Tgt Ion:105	Resp:	1168
Ion	Ratio	Lower Upper
105	100	
120	70.0	39.4 59.0#
91	26.0	47.8 71.8#
77	13.4	17.8 26.6#



#75
1,3-Dichlorobenzene
Concen: 0.003 ppbv
RT: 11.623 min Scan# 3564
Delta R.T. 0.010 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

Tgt Ion:146	Resp:	100
Ion	Ratio	Lower Upper
146	100	
111	165.0	22.8 68.4#
148	181.0	31.6 94.8#

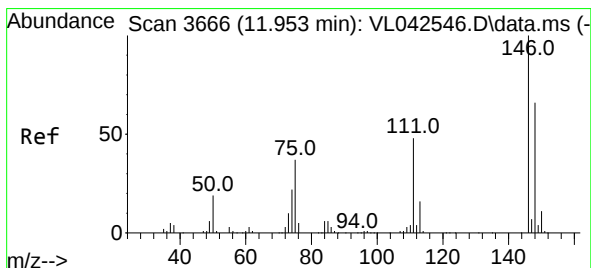
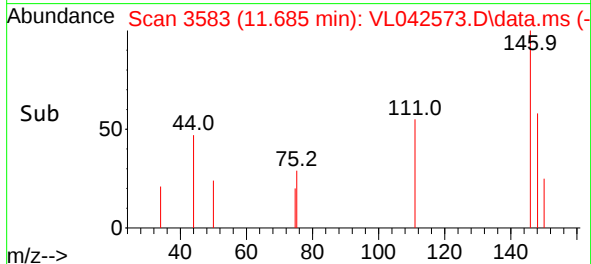
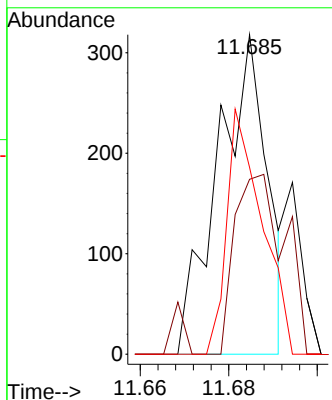
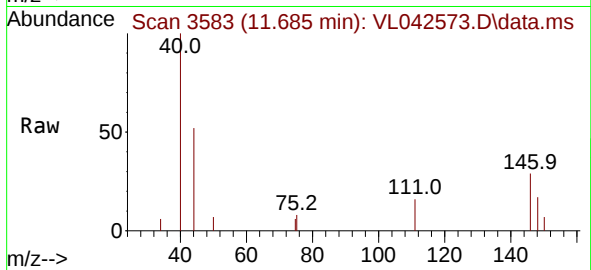




#76
1,4-Dichlorobenzene
Concen: 0.008 ppbv
RT: 11.685 min Scan# 3583
Delta R.T. 0.006 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

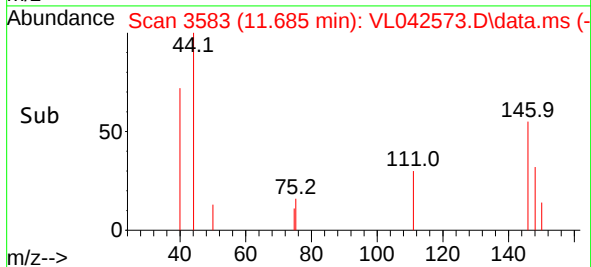
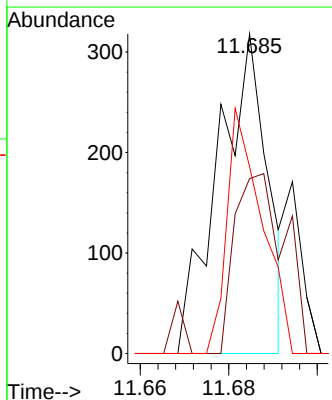
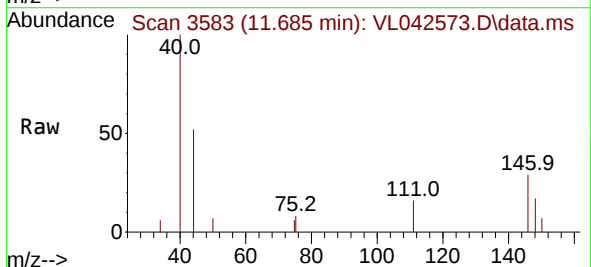
Instrument :
MSVOA_L
ClientSampleId :

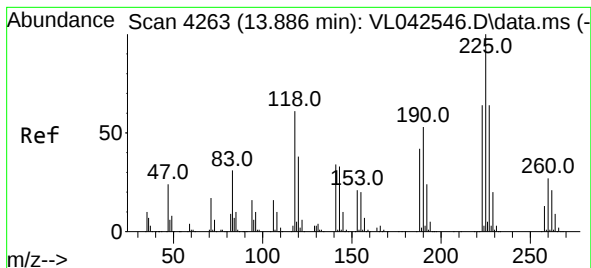
Tgt Ion:146 Resp: 248
Ion Ratio Lower Upper
146 100
111 60.5 21.8 65.3
148 54.4 31.4 94.3



#77
1,2-Dichlorobenzene
Concen: 0.008 ppbv
RT: 11.685 min Scan# 3583
Delta R.T. -0.269 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

Tgt Ion:146 Resp: 248
Ion Ratio Lower Upper
146 100
111 60.5 23.7 71.1
148 54.4 32.3 96.9





#78

Hexachloro-1,3-Butadiene

Concen: 0.005 ppbv

RT: 13.895 min Scan# 4153

Delta R.T. 0.010 min

Lab File: VL042573.D

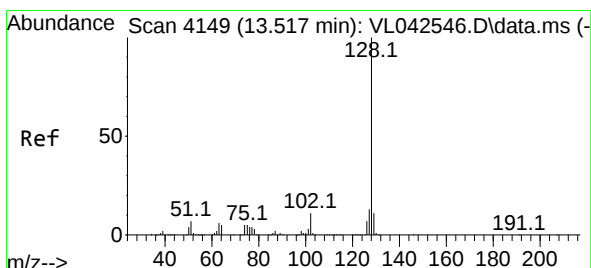
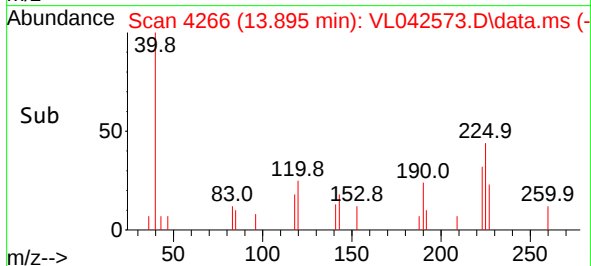
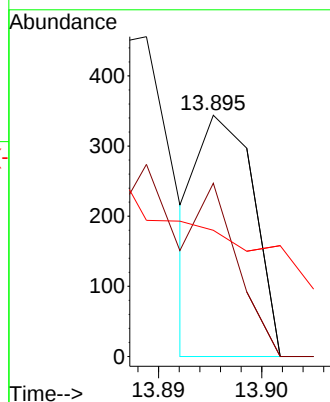
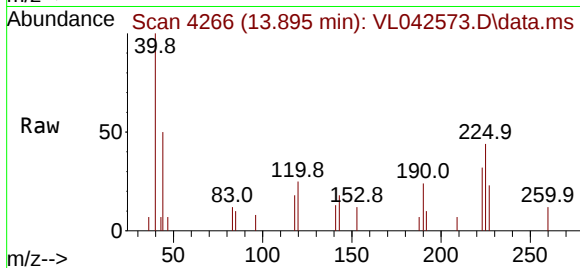
Acq: 22 May 2025 10:08

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:	225	Resp:	125
Ion Ratio	Lower	Upper	
225	100		
223	0.0	51.0	76.6#
227	0.0	50.2	75.4#



#79

Naphthalene

Concen: 0.027 ppbv

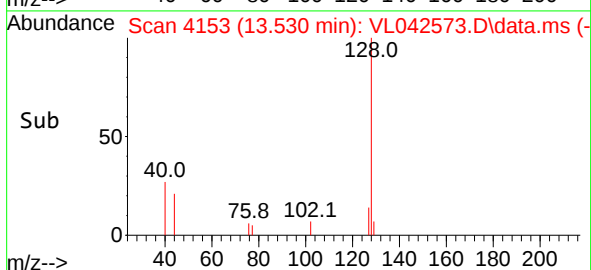
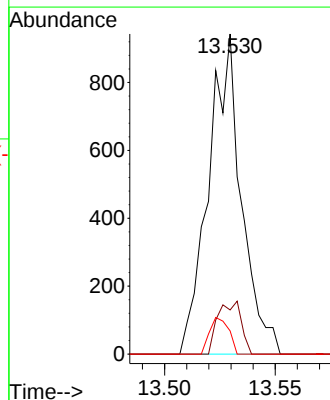
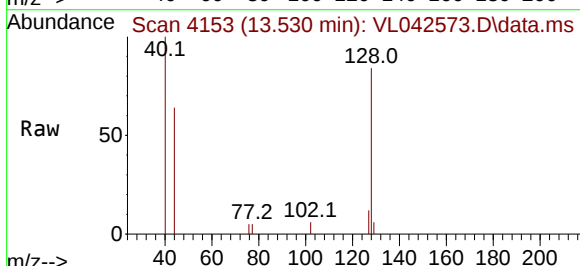
RT: 13.530 min Scan# 4153

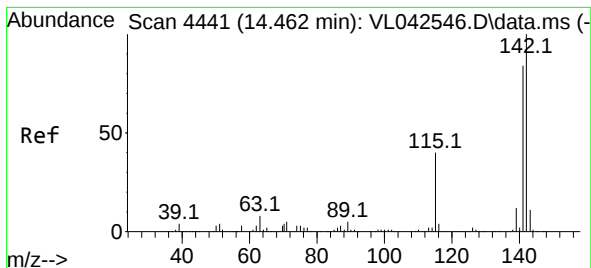
Delta R.T. 0.013 min

Lab File: VL042573.D

Acq: 22 May 2025 10:08

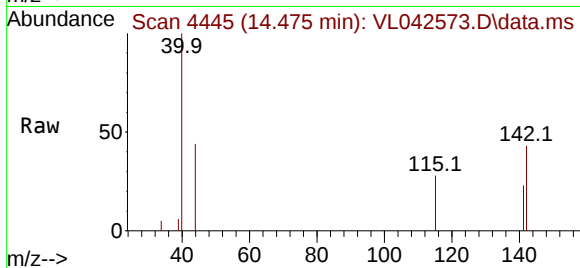
Tgt Ion:	128	Resp:	972
Ion Ratio	Lower	Upper	
128	100		
127	13.8	10.5	15.7
129	7.2	9.0	13.4#



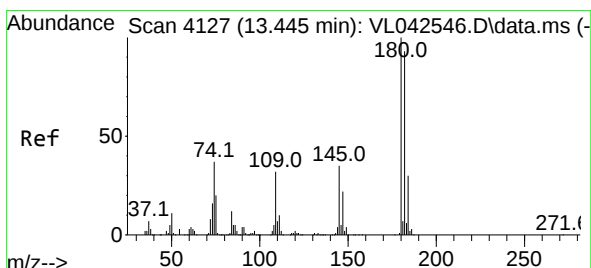
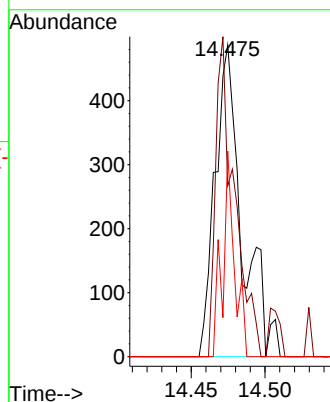
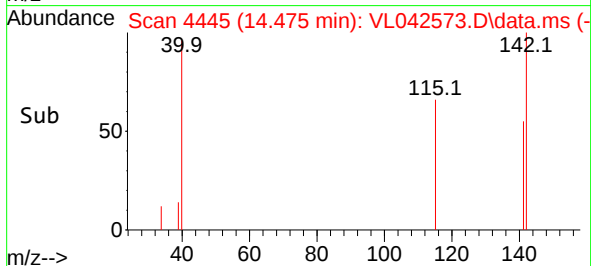


#80
Naphthalene, 2-methyl-
Concen: 0.033 ppbv
RT: 14.475 min Scan# 4445
Delta R.T. 0.013 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08

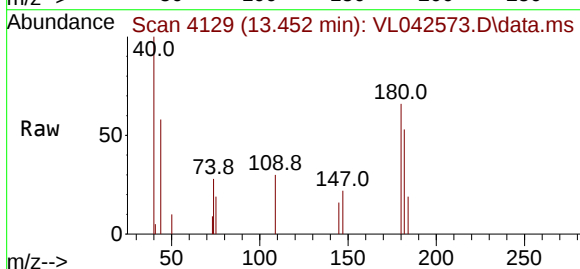
Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion:142 Resp: 617
Ion Ratio Lower Upper
142 100
141 77.6 67.4 101.0
115 29.3 31.5 47.3#



#81
1,2,4-Trichlorobenzene
Concen: 0.026 ppbv
RT: 13.452 min Scan# 4129
Delta R.T. 0.006 min
Lab File: VL042573.D
Acq: 22 May 2025 10:08



Tgt Ion:180 Resp: 569
Ion Ratio Lower Upper
180 100
182 95.6 75.6 113.4
184 23.0 23.7 35.5#

