

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
 Data File : VL041945.D
 Acq On : 27 Jan 2025 10:47
 Operator : SY/MD
 Sample : VL0127ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0127ABL01

Quant Time: Jan 28 02:33:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	148041	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	410834	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	349106	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.384	95	264022	9.602	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.000%

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.499	85	332	0.016	ppbv	99
3) Chlorodifluoromethane	1.625	51	148	0.007	ppbv	100
5) Vinyl Chloride	1.586	62	53	0.007	ppbv #	42
6) Bromomethane	1.670	94	104	0.028	ppbv #	6
7) Chloroethane	1.703	64	24	0.008	ppbv #	43
8) Dichlorotetrafluoroethane	1.554	85	38	0.002	ppbv	84
10) Heptane	4.998	43	26	0.001	ppbv #	27
11) Trichlorofluoromethane	1.887	101	177	0.008	ppbv #	45
12) 1,1,2-Trichlorotrifluo...	2.149	101	93	0.006	ppbv #	15
14) Bromoethene	1.787	108	82	0.014	ppbv #	26
18) 1,1-Dichloroethene	2.056	96	63	0.009	ppbv #	1
21) Allyl Chloride	2.104	41	96	0.008	ppbv #	21
22) trans-1,2-Dichloroethene	2.347	96	41	0.005	ppbv #	1
24) 1,1-Dichloroethane	2.412	63	27	0.002	ppbv #	87
25) Ethyl Acetate	2.836	43	223	0.005	ppbv #	74
26) Hexane	2.826	57	378	0.020	ppbv #	73
27) Carbon Disulfide	2.146	76	107	0.006	ppbv #	1
28) Methyl tert-Butyl Ether	2.518	73	35	0.002	ppbv #	16
29) Chloroform	2.855	83	383	0.013	ppbv #	59
30) Cyclohexane	3.946	84	109	0.007	ppbv #	7
31) cis-1,2-Dichloroethene	2.726	61	44	0.002	ppbv #	26
32) 1,1,1-Trichloroethane	3.373	97	31	0.001	ppbv #	23
34) 2-Butanone	2.567	43	457	0.017	ppbv #	85
35) Carbon Tetrachloride	3.774	117	102	0.004	ppbv #	12
36) Benzene	3.664	78	248	0.007	ppbv #	75
37) 1,2-Dichloroethane	3.227	62	110	0.005	ppbv #	80
38) Trichloroethene	4.480	130	24	0.002	ppbv #	3
40) 1,4-Dioxane	4.638	88	188	0.028	ppbv #	1
41) Tetrahydrofuran	3.062	42	13	0.001	ppbv #	36
42) Bromodichloromethane	4.503	83	62	0.002	ppbv #	24
43) Methyl Methacrylate	4.881	69	11	0.001	ppbv #	1
44) 2,2,4-Trimethylpentane	4.648	57	29	0.000	ppbv #	1
45) t-1,3-Dichloropropene	6.027	75	21	0.002	ppbv #	44
46) cis-1,3-Dichloropropene	6.027	75	21	0.001	ppbv #	25
47) 1,1,2-Trichloroethane	6.619	97	50	0.004	ppbv #	15
48) Dibromochloromethane	7.367	129	37	0.002	ppbv #	1
49) Bromoform	9.490	173	69	0.004	ppbv #	58
50) 4-Methyl-2-Pentanone	5.775	43	159	0.004	ppbv #	39
51) 2-Hexanone	7.451	43	370	0.014	ppbv #	27
52) Tetrachloroethene	8.231	164	56	0.004	ppbv #	17
53) Toluene	6.946	91	63	0.002	ppbv #	21
54) 1,2-Dibromoethane	7.856	107	27	0.001	ppbv #	2
56) 1,1,1,2-Tetrachloroethane	8.943	131	61	0.004	ppbv #	1

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
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Instrument :
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 ClientSampleId :
 VL0127ABL01

Quant Time: Jan 28 02:33:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

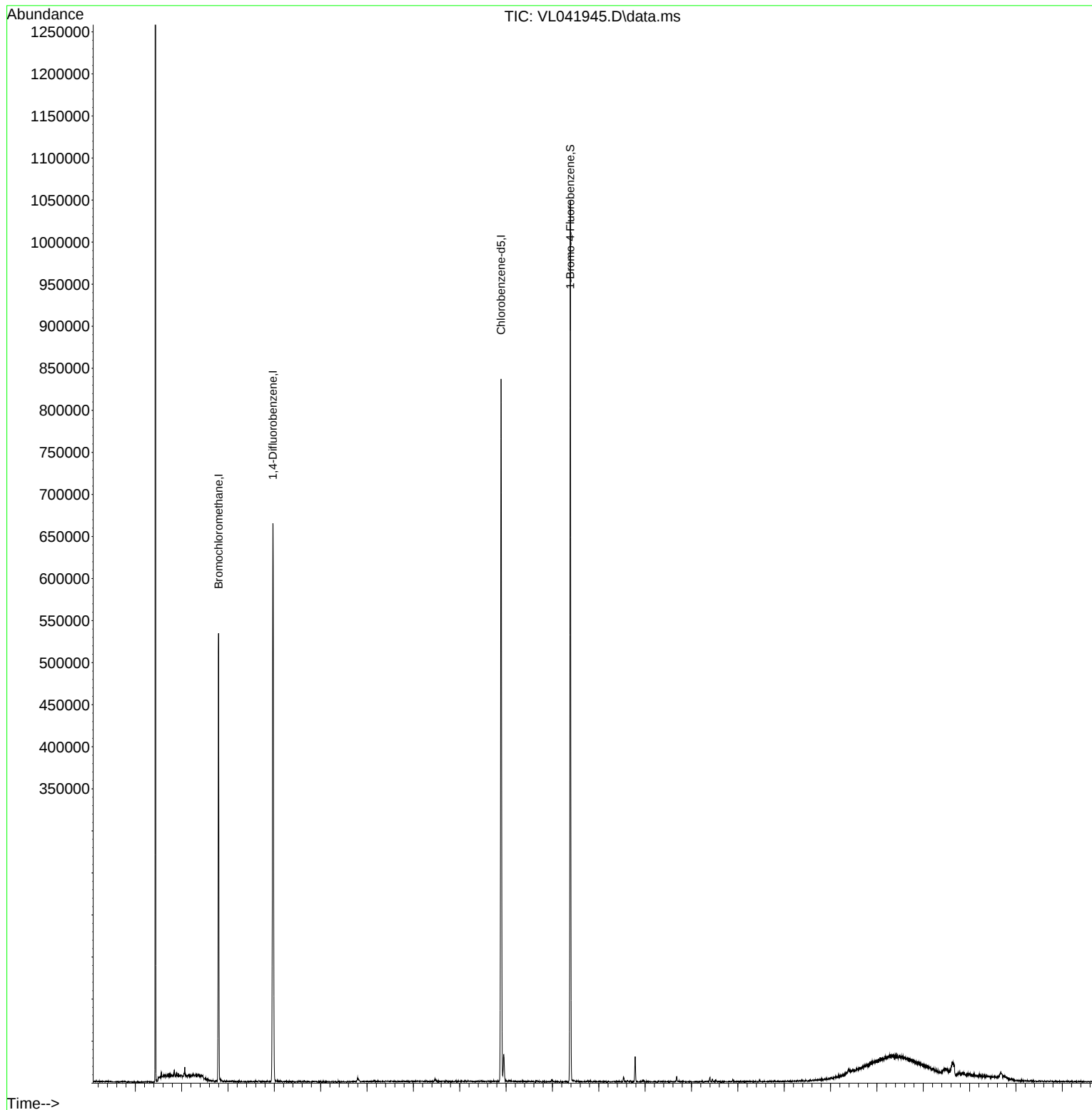
57) Chlorobenzene	8.933	112	145	0.005	ppbv	#	51
58) Ethyl Benzene	9.558	91	67	0.001	ppbv		93
59) m/p-Xylene	9.558	91	67	0.002	ppbv	#	31
60) o-Xylene	9.976	91	58	0.001	ppbv	#	1
61) Styrene	9.882	104	49	0.003	ppbv	#	13
62) Isopropylbenzene	10.552	105	112	0.002	ppbv		92
63) 1,1,2,2-Tetrachloroethane	9.976	83	106	0.004	ppbv	#	25
64) n-propylbenzene	11.002	120	42	0.002	ppbv	#	40
65) tert-Butylbenzene	11.539	119	167	0.003	ppbv	#	18
66) Benzyl Chloride	11.630	91	37	0.010	ppbv	#	66
67) sec-Butylbenzene	11.775	105	189	0.002	ppbv	#	58
69) p-Isopropyltoluene	11.937	119	186	0.003	ppbv	#	70
70) n-Butylbenzene	12.290	91	392	0.006	ppbv	#	54
71) 2-Chlorotoluene	10.911	91	315	0.006	ppbv	#	45
72) 4-Ethyltoluene	11.134	105	238	0.005	ppbv	#	84
73) 1,3,5-Trimethylbenzene	11.219	105	301	0.007	ppbv	#	32
74) 1,2,4-Trimethylbenzene	11.545	105	430	0.009	ppbv	#	58
75) 1,3-Dichlorobenzene	11.610	146	78	0.003	ppbv	#	23
76) 1,4-Dichlorobenzene	11.678	146	120	0.004	ppbv	#	24
77) 1,2-Dichlorobenzene	11.966	146	246	0.008	ppbv	#	4
78) Hexachloro-1,3-Butadiene	13.889	225	327	0.014	ppbv	#	73
79) Naphthalene	13.526	128	972	0.019	ppbv	#	83
80) Naphthalene,2-methyl-	14.471	142	632	0.027	ppbv	#	92
81) 1,2,4-Trichlorobenzene	13.455	180	368	0.015	ppbv	#	17

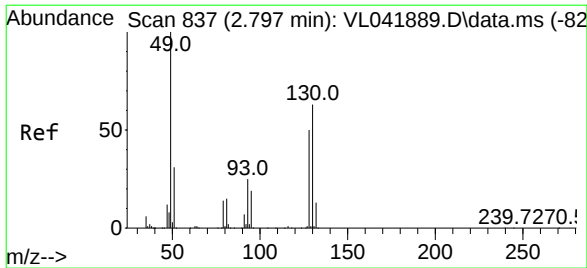
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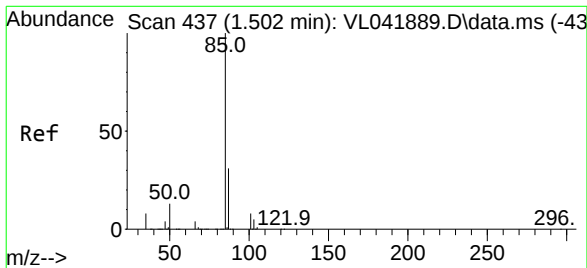
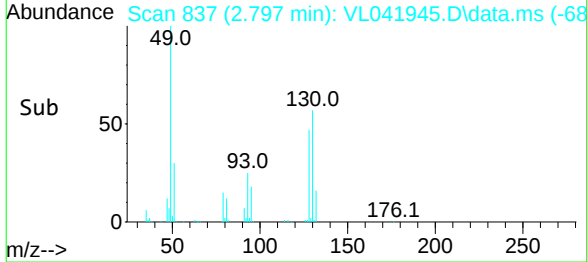
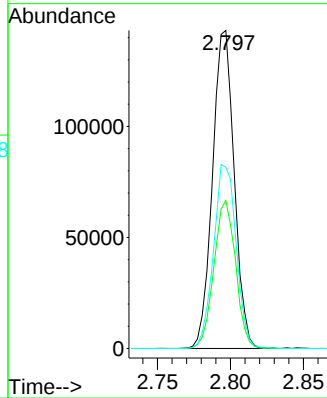
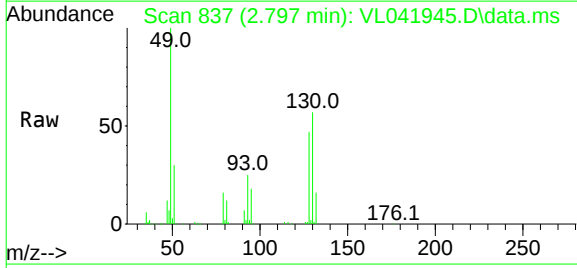




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 837
Delta R.T. -0.000 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

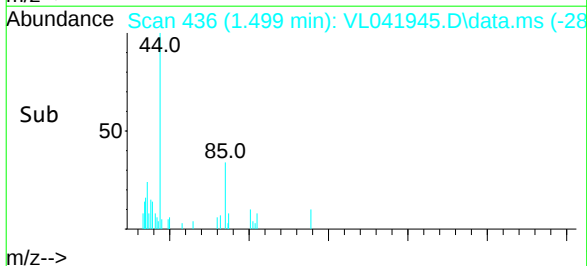
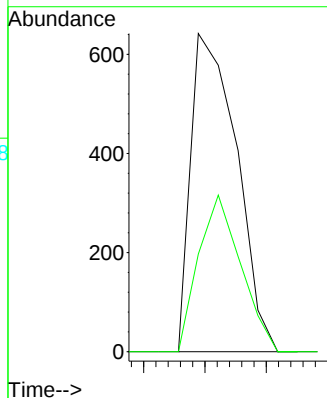
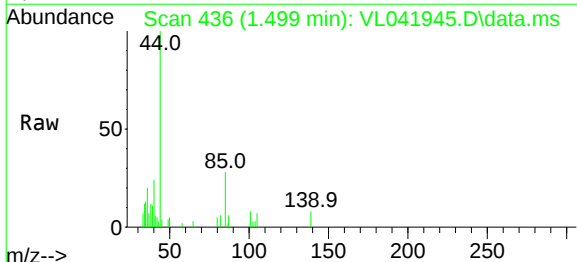
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MSVOA_L
ClientSampleId :
VL0127ABL01

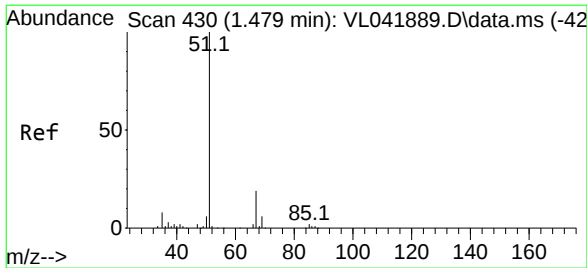
Tgt Ion: 49 Resp: 148041
Ion Ratio Lower Upper
49 100
128 46.5 24.3 73.0
130 60.4 31.1 93.2



#2
Dichlorodifluoromethane
Concen: 0.016 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.003 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

Tgt Ion: 85 Resp: 332
Ion Ratio Lower Upper
85 100
87 30.7 24.9 37.3

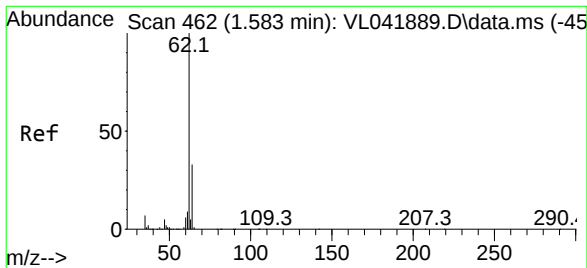
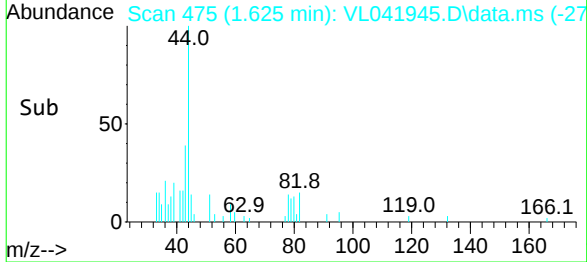
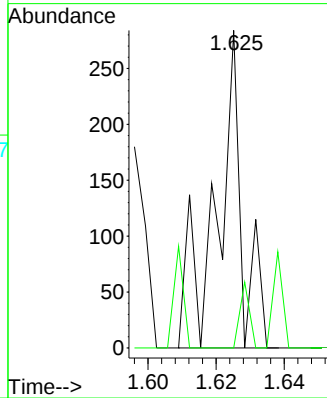
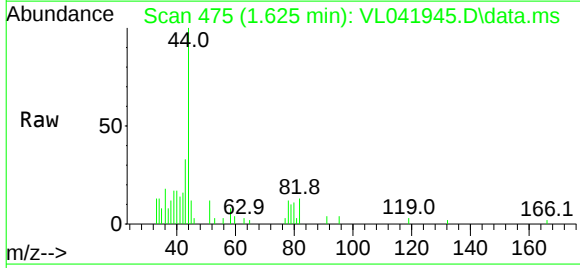




#3
Chlorodifluoromethane
Concen: 0.007 ppbv
RT: 1.625 min Scan# 47
Delta R.T. 0.146 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

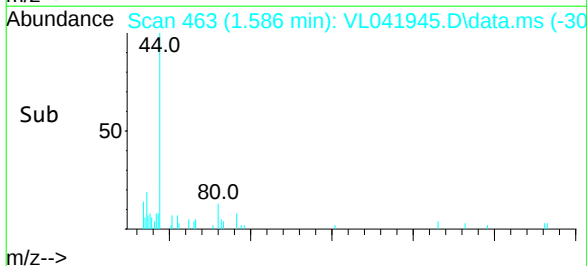
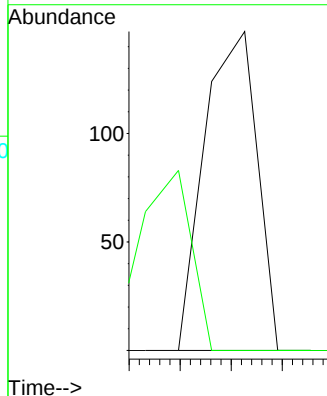
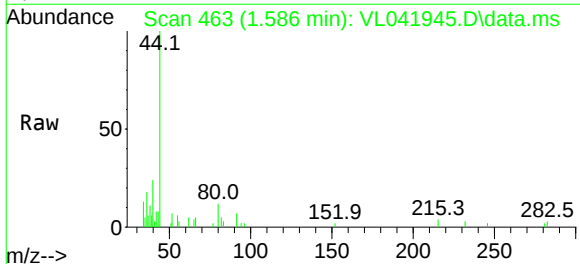
Instrument :
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ClientSampleId :
VL0127ABL01

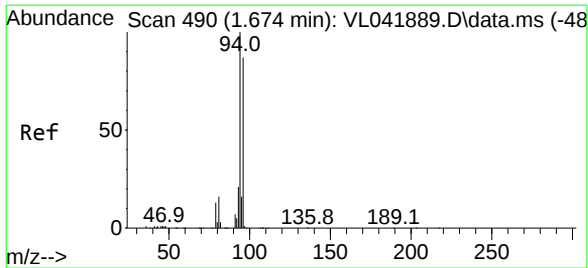
Tgt Ion: 51 Resp: 148
Ion Ratio Lower Upper
51 100
67 18.9 15.0 22.4



#5
Vinyl Chloride
Concen: 0.007 ppbv
RT: 1.586 min Scan# 463
Delta R.T. 0.003 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

Tgt Ion: 62 Resp: 53
Ion Ratio Lower Upper
62 100
64 0.0 26.1 39.1#

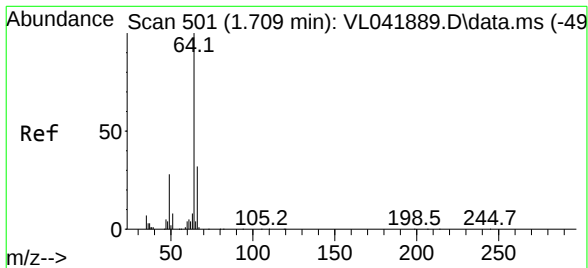
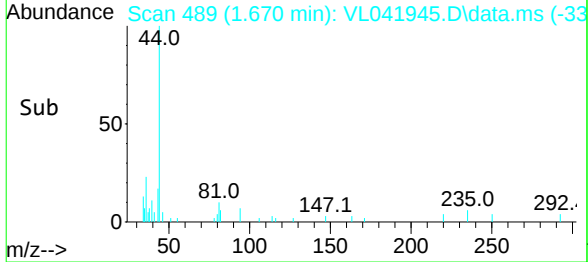
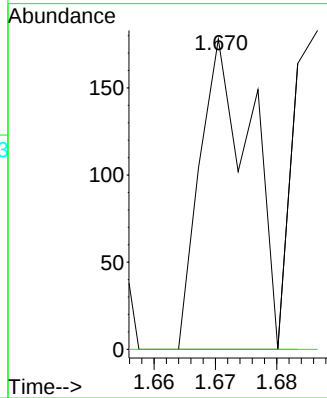
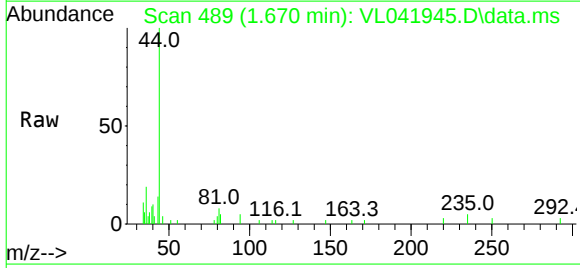




#6
Bromomethane
Concen: 0.028 ppbv
RT: 1.670 min Scan# 48
Delta R.T. -0.003 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

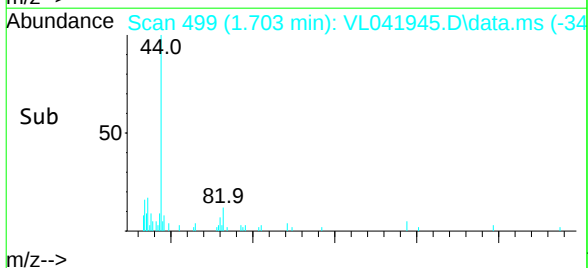
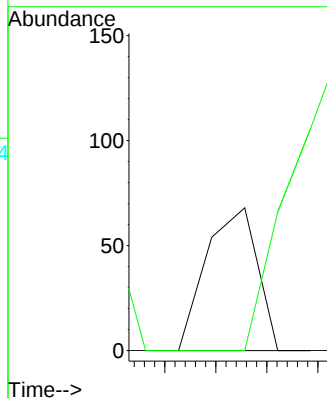
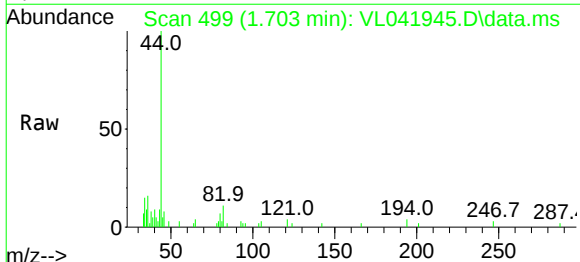
Instrument :
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ClientSampleId :
VL0127ABL01

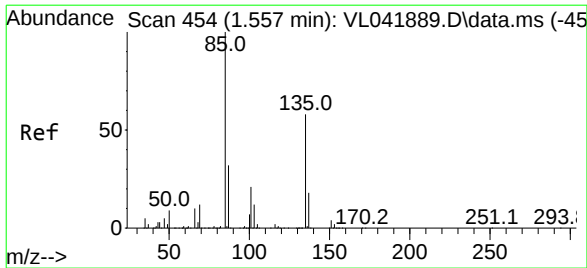
Tgt Ion: 94 Resp: 104
Ion Ratio Lower Upper
94 100
96 0.0 69.5 104.3#



#7
Chloroethane
Concen: 0.008 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.006 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

Tgt Ion: 64 Resp: 24
Ion Ratio Lower Upper
64 100
66 0.0 25.7 38.5#

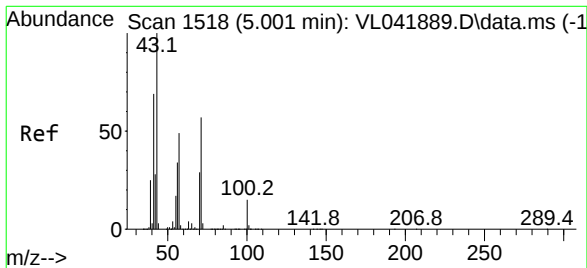
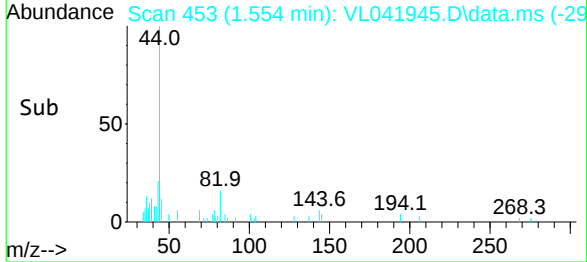
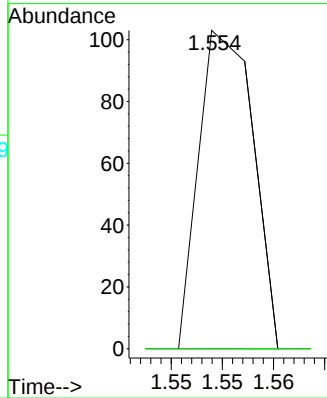
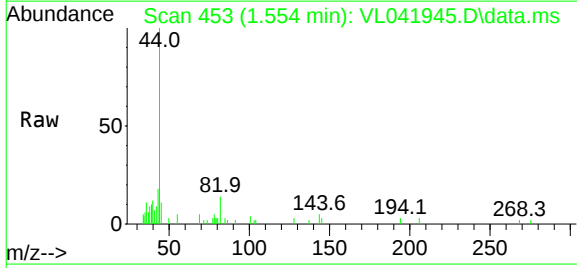




#8
Dichlorotetrafluoroethane
Concen: 0.002 ppbv
RT: 1.554 min Scan# 45
Delta R.T. -0.003 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

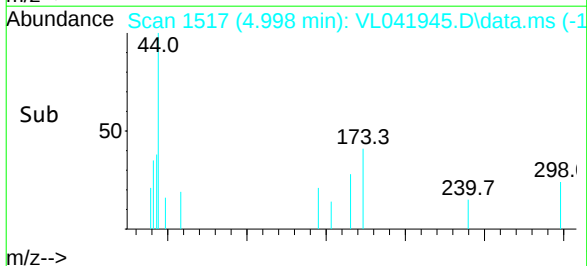
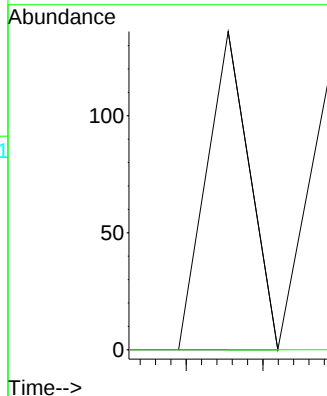
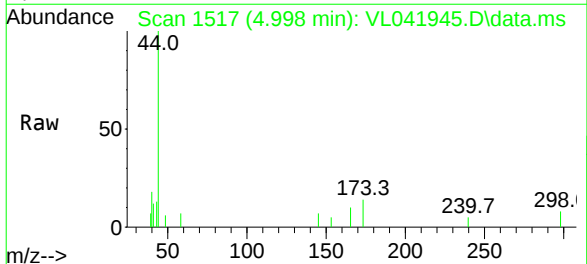
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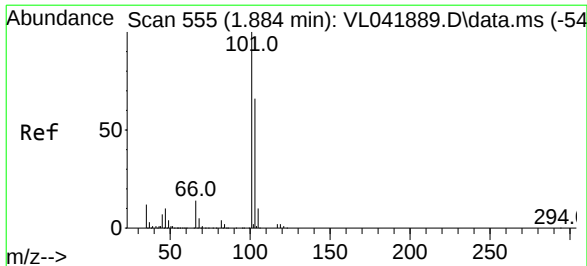
Tgt Ion: 85 Resp: 38
Ion Ratio Lower Upper
85 100
135 50.0 50.0 75.0



#10
Heptane
Concen: 0.001 ppbv
RT: 4.998 min Scan# 1517
Delta R.T. -0.003 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

Tgt Ion: 43 Resp: 26
Ion Ratio Lower Upper
43 100
57 0.0 41.0 61.4#

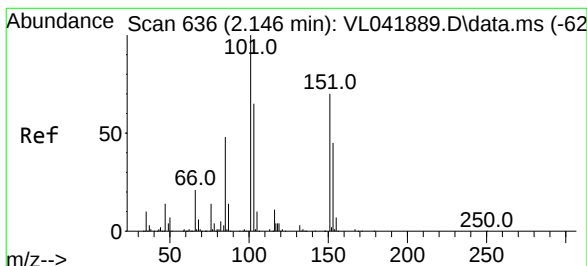
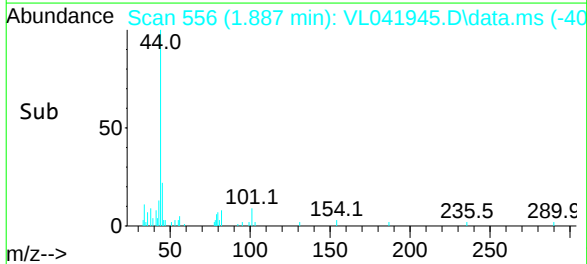
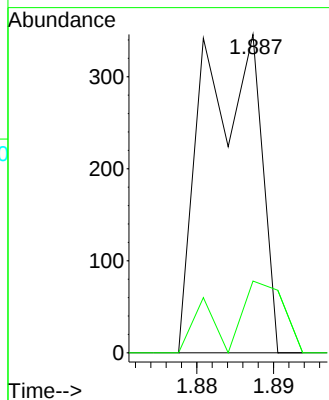
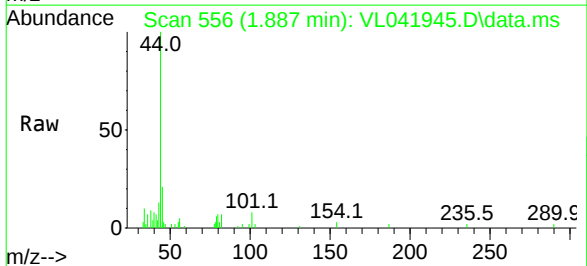




#11
Trichlorofluoromethane
Concen: 0.008 ppbv
RT: 1.887 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

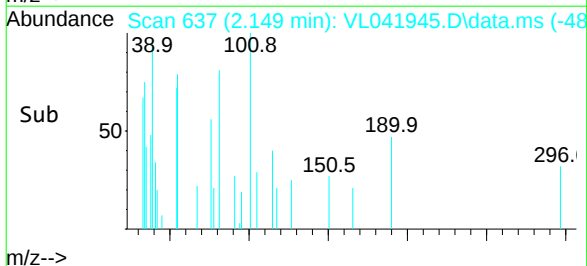
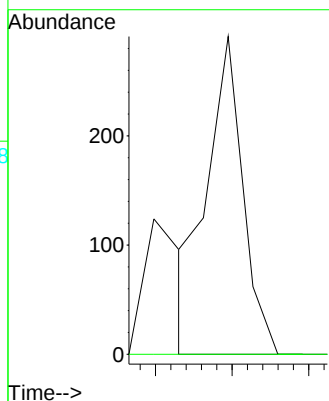
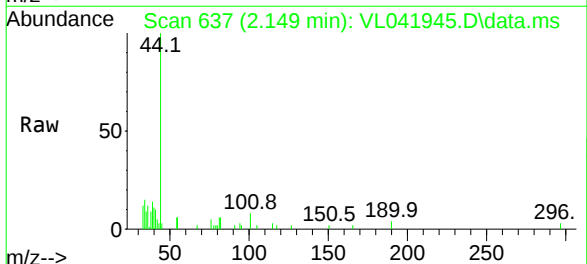
Instrument :
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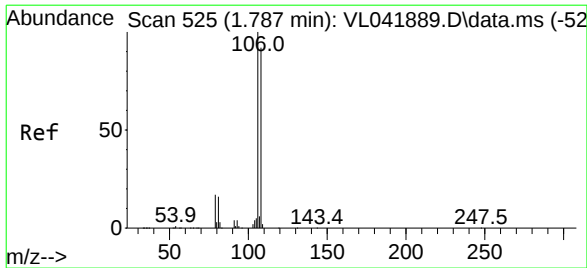
Tgt Ion:101 Resp: 177
Ion Ratio Lower Upper
101 100
103 22.5 53.1 79.7#



#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.006 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

Tgt Ion:101 Resp: 93
Ion Ratio Lower Upper
101 100
151 0.0 56.1 84.1#





#14

Bromoethene

Concen: 0.014 ppbv

RT: 1.787 min Scan# 52

Delta R.T. 0.000 min

Lab File: VL041945.D

Acq: 27 Jan 2025 10:47

Instrument :

MSVOA_L

ClientSampleId :

VL0127ABL01

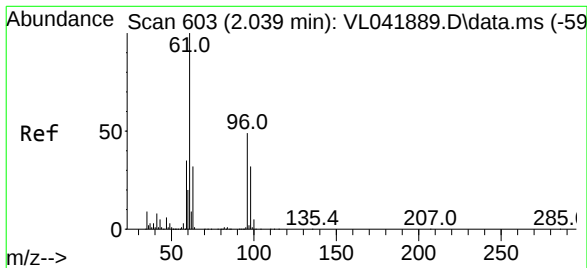
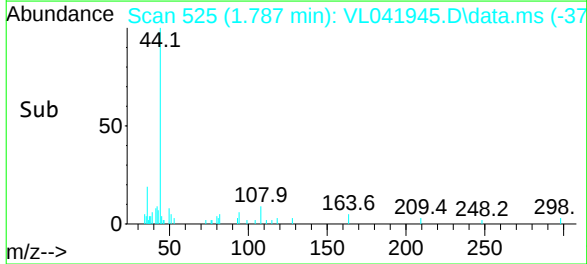
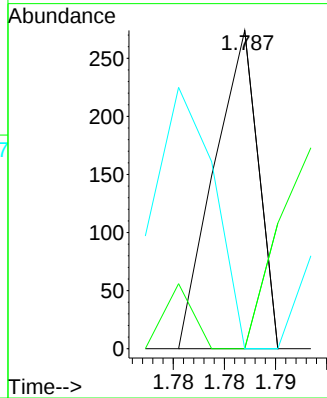
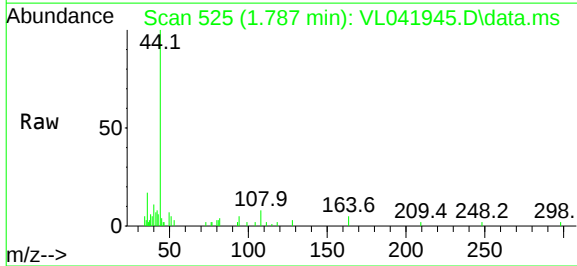
Tgt Ion:108 Resp: 82

Ion Ratio Lower Upper

108 100

106 125.6 85.5 128.3

79 192.7 15.3 22.9#



#18

1,1-Dichloroethene

Concen: 0.009 ppbv

RT: 2.056 min Scan# 608

Delta R.T. 0.016 min

Lab File: VL041945.D

Acq: 27 Jan 2025 10:47

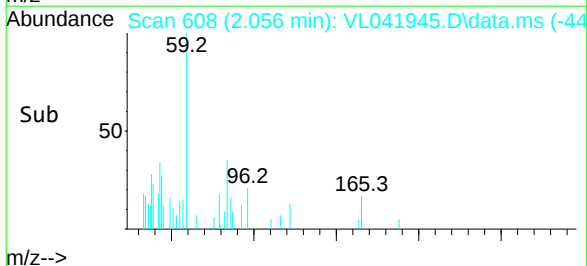
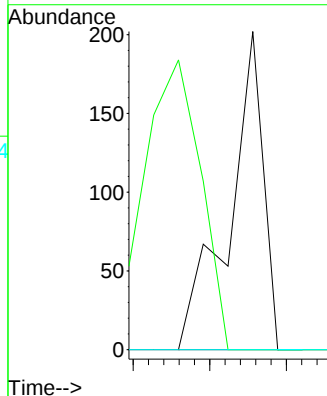
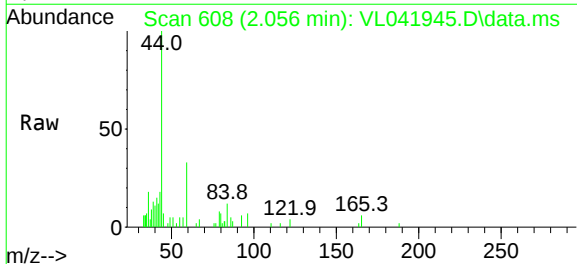
Tgt Ion: 96 Resp: 63

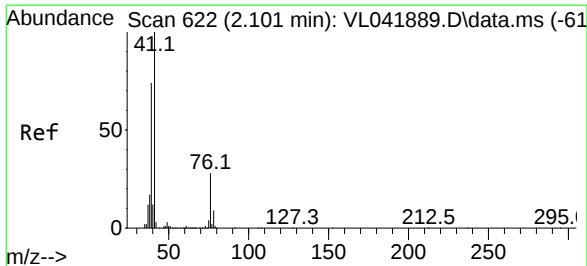
Ion Ratio Lower Upper

96 100

61 0.0 163.1 244.7#

98 0.0 52.7 79.1#





#21

Allyl Chloride

Concen: 0.008 ppbv

RT: 2.104 min Scan# 62

Delta R.T. 0.003 min

Lab File: VL041945.D

Acq: 27 Jan 2025 10:47

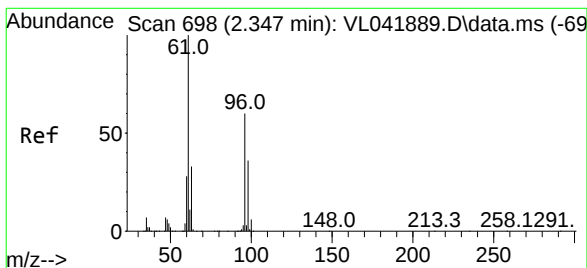
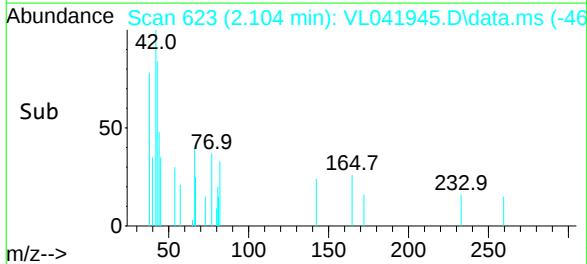
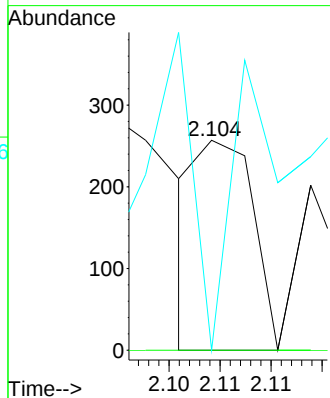
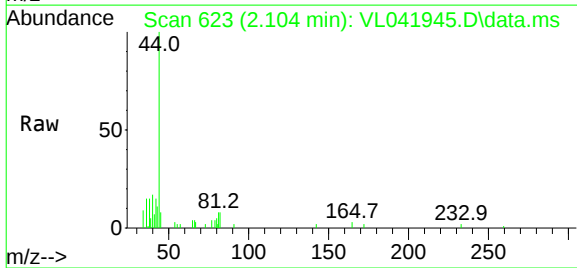
Instrument :

MSVOA_L

ClientSampleId :

VL0127ABL01

Tgt Ion:	41	Resp:	96
Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.2	36.4#
39	0.0	60.6	91.0#



#22

trans-1,2-Dichloroethene

Concen: 0.005 ppbv

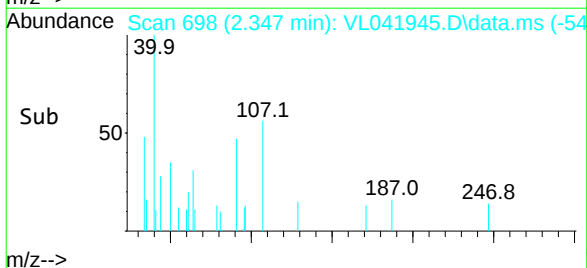
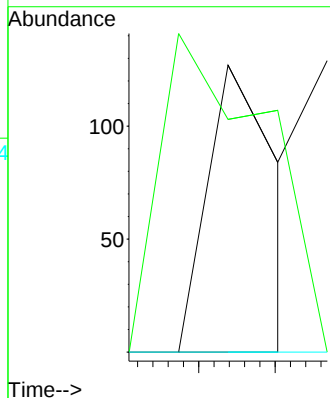
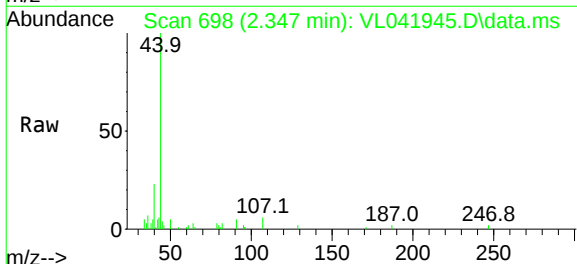
RT: 2.347 min Scan# 698

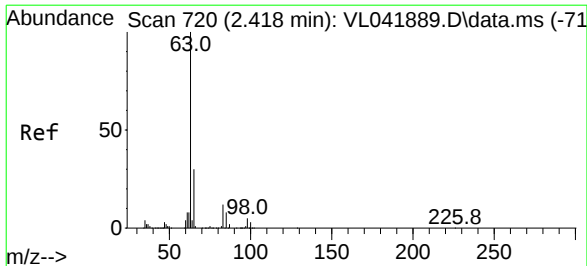
Delta R.T. 0.000 min

Lab File: VL041945.D

Acq: 27 Jan 2025 10:47

Tgt Ion:	96	Resp:	41
Ion	Ratio	Lower	Upper
96	100		
61	0.0	134.5	201.7#
98	0.0	48.9	73.3#

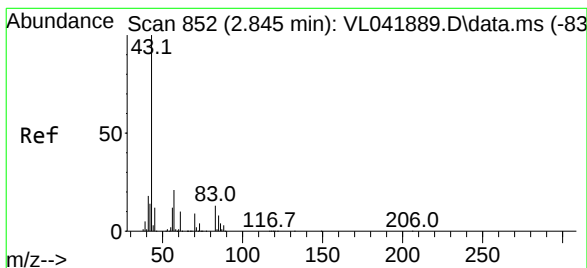
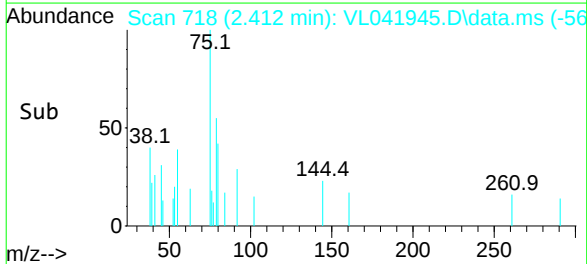
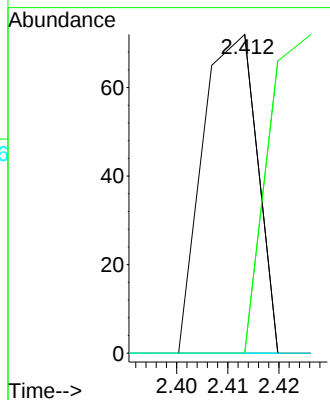
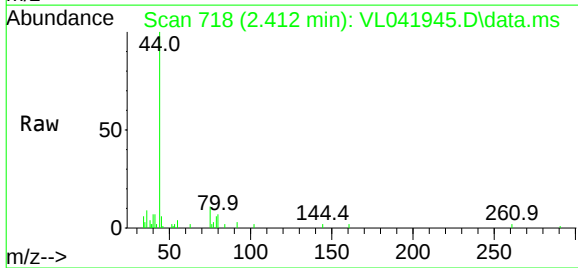




#24
1,1-Dichloroethane
Concen: 0.002 ppbv
RT: 2.412 min Scan# 71
Delta R.T. -0.006 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

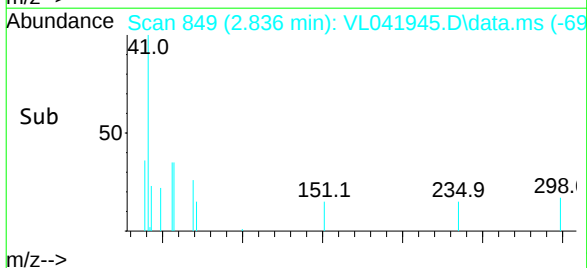
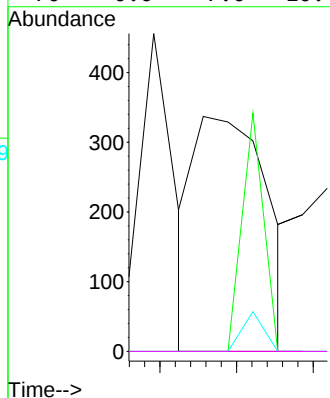
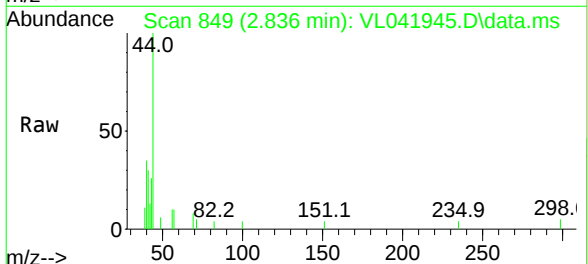
Instrument :
MSVOA_L
ClientSampleId :
VL0127ABL01

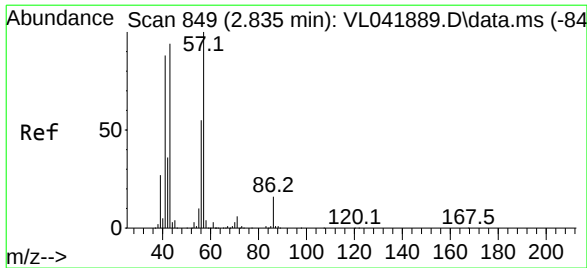
Tgt Ion: 63 Resp: 27
Ion Ratio Lower Upper
63 100
98 0.0 2.6 7.8#
100 0.0 1.4 4.2#



#25
Ethyl Acetate
Concen: 0.005 ppbv
RT: 2.836 min Scan# 849
Delta R.T. -0.010 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

Tgt Ion: 43 Resp: 223
Ion Ratio Lower Upper
43 100
45 0.0 8.2 12.2#
61 0.0 7.4 11.0#
70 0.0 7.0 10.4#

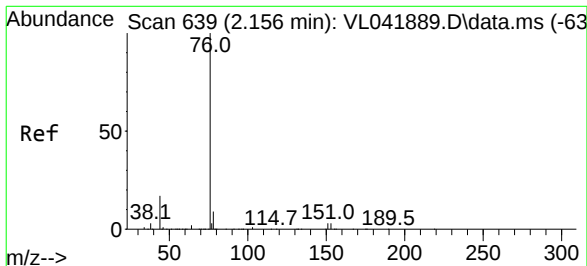
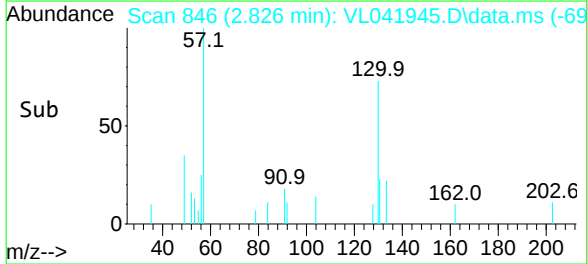
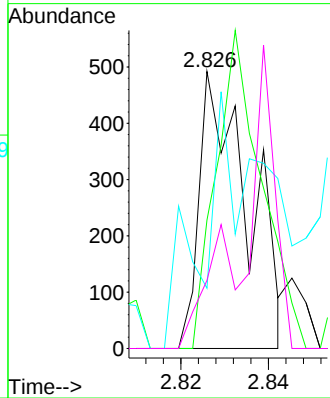
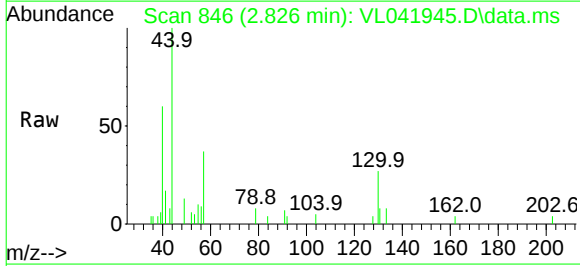




#26
Hexane
Concen: 0.020 ppbv
RT: 2.826 min Scan# 849
Delta R.T. -0.010 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

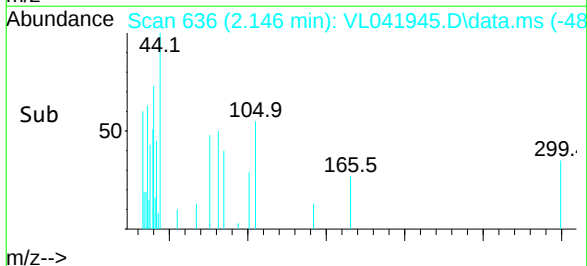
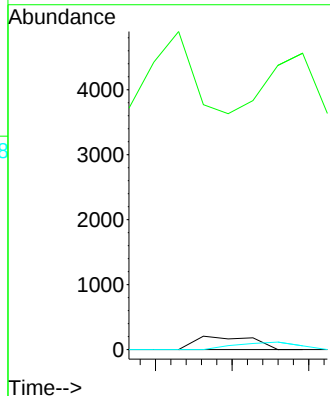
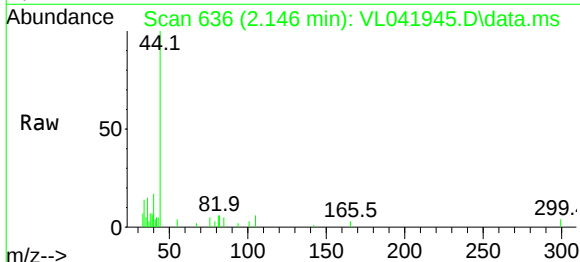
Instrument :
MSVOA_L
ClientSampleId :
VL0127ABL01

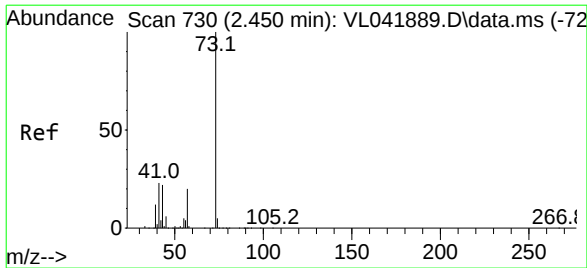
Tgt Ion: 57 Resp: 378
Ion Ratio Lower Upper
57 100
41 141.0 73.8 110.8#
43 233.3 197.3 295.9
56 0.0 42.7 64.1#



#27
Carbon Disulfide
Concen: 0.006 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.010 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

Tgt Ion: 76 Resp: 107
Ion Ratio Lower Upper
76 100
44 8257.0 15.4 23.0#
78 59.8 9.3 13.9#

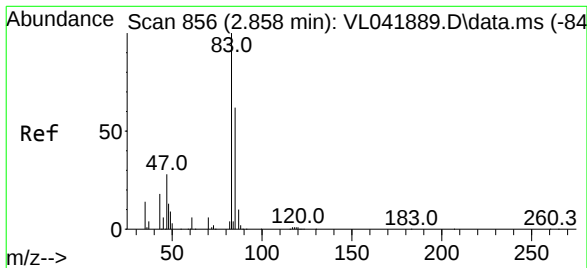
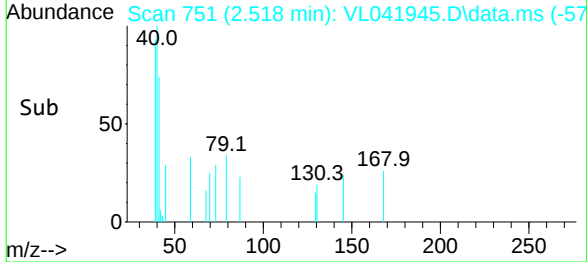
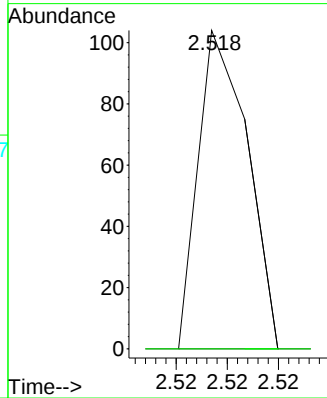
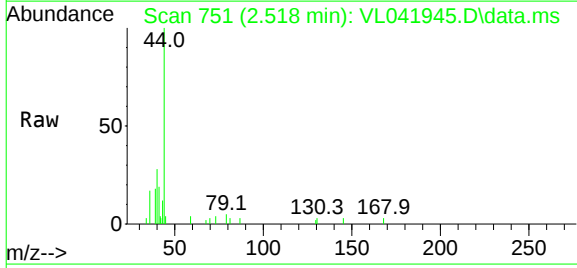




#28
Methyl tert-Butyl Ether
Concen: 0.002 ppbv
RT: 2.518 min Scan# 751
Delta R.T. 0.068 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

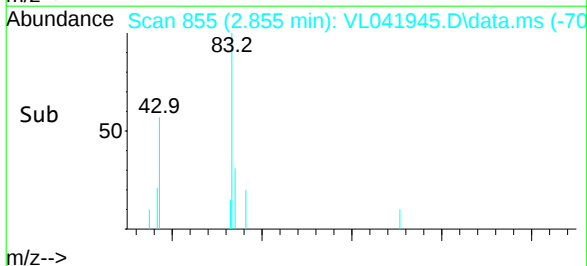
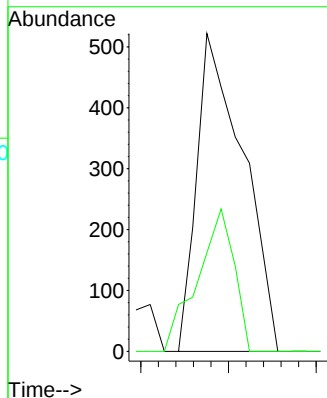
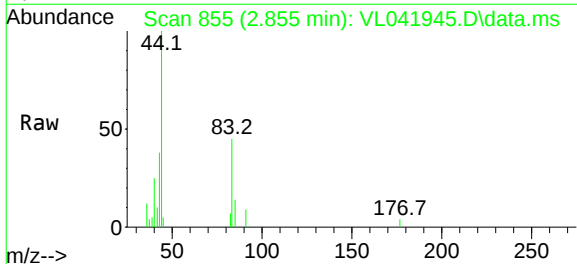
Instrument :
MSVOA_L
ClientSampleId :
VL0127ABL01

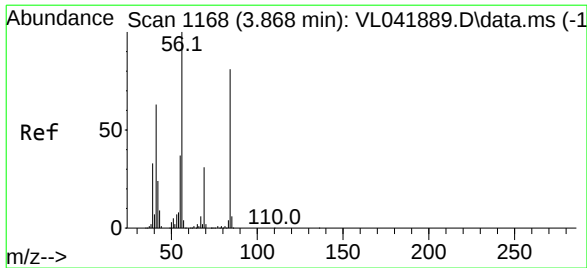
Tgt Ion: 73 Resp: 35
Ion Ratio Lower Upper
73 100
57 62.9 18.1 27.1#



#29
Chloroform
Concen: 0.013 ppbv
RT: 2.855 min Scan# 855
Delta R.T. -0.003 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

Tgt Ion: 83 Resp: 383
Ion Ratio Lower Upper
83 100
85 31.0 50.1 75.1#





#30

Cyclohexane

Concen: 0.007 ppbv

RT: 3.946 min Scan# 11

Delta R.T. 0.078 min

Lab File: VL041945.D

Acq: 27 Jan 2025 10:47

Instrument :

MSVOA_L

ClientSampleId :

VL0127ABL01

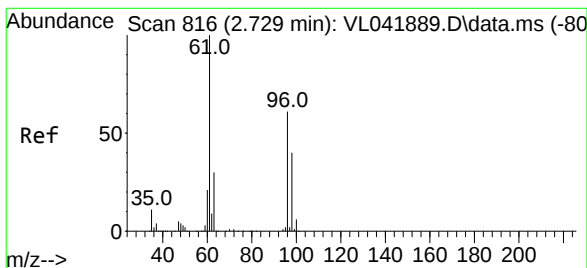
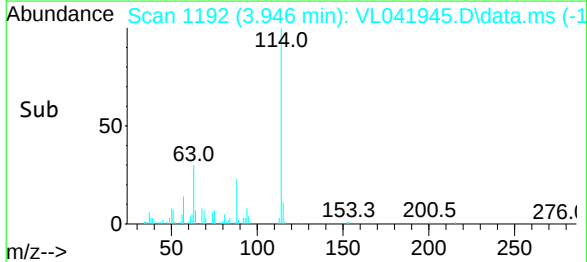
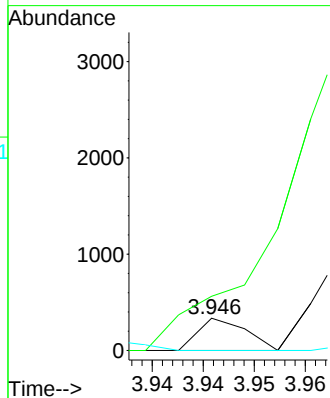
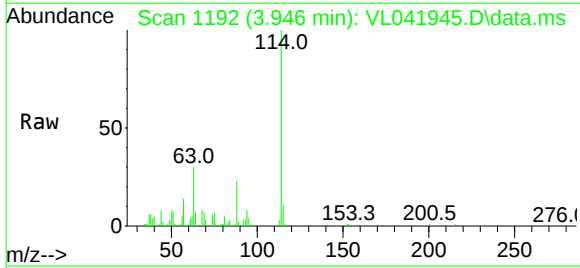
Tgt Ion: 84 Resp: 109

Ion Ratio Lower Upper

84 100

56 0.0 99.3 148.9#

41 21.1 64.3 96.5#



#31

cis-1,2-Dichloroethene

Concen: 0.002 ppbv

RT: 2.726 min Scan# 815

Delta R.T. -0.003 min

Lab File: VL041945.D

Acq: 27 Jan 2025 10:47

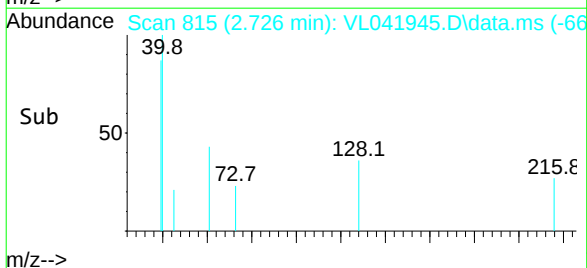
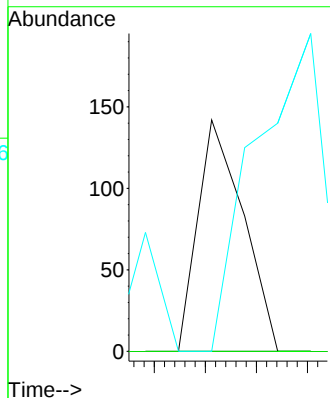
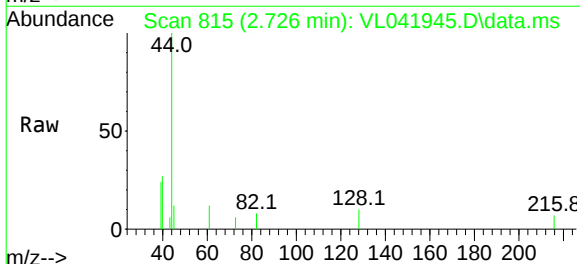
Tgt Ion: 61 Resp: 44

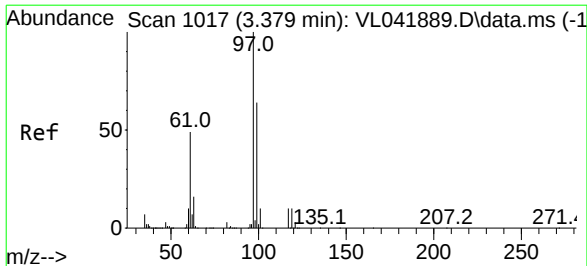
Ion Ratio Lower Upper

61 100

96 0.0 48.7 73.1#

98 0.0 31.6 47.4#

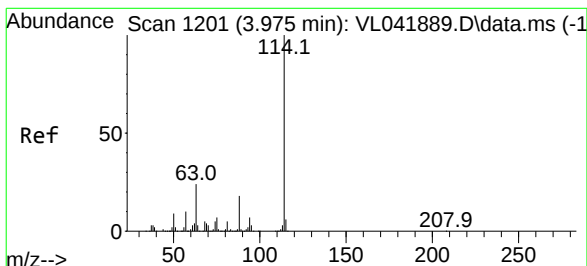
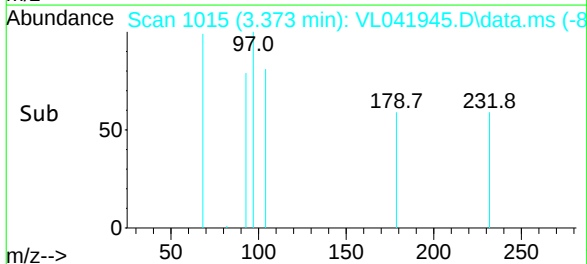
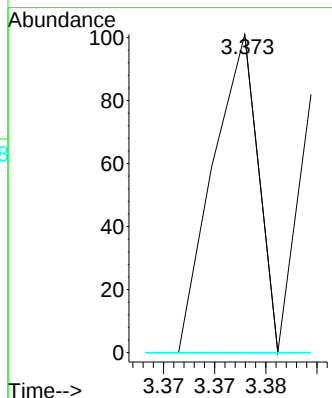
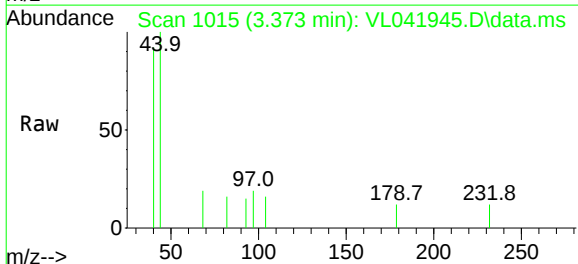




#32
1,1,1-Trichloroethane
Concen: 0.001 ppbv
RT: 3.373 min Scan# 1015
Delta R.T. -0.006 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

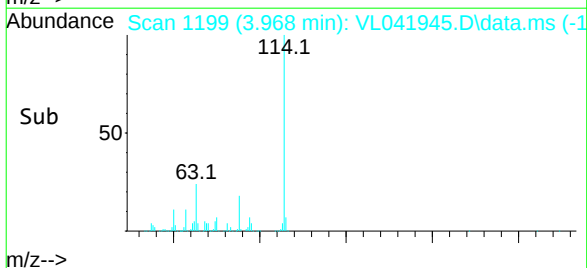
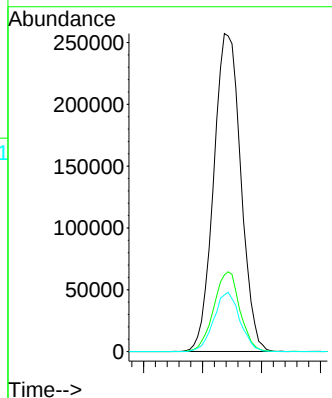
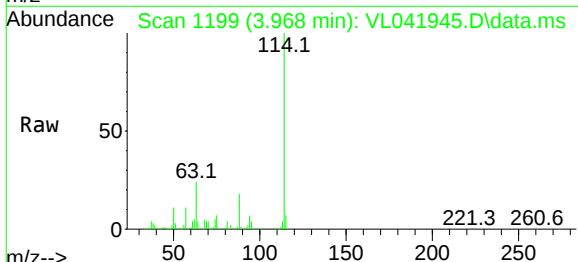
Instrument :
MSVOA_L
ClientSampleId :
VL0127ABL01

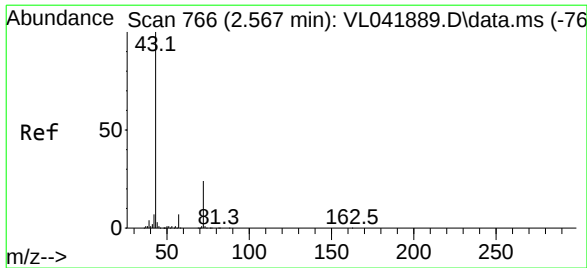
Tgt Ion:	97	Resp:	31
Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.1	76.7#
61	0.0	39.0	58.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. -0.006 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

Tgt Ion:	114	Resp:	410834
Ion	Ratio	Lower	Upper
114	100		
63	24.3	19.8	29.6
88	17.9	14.4	21.6

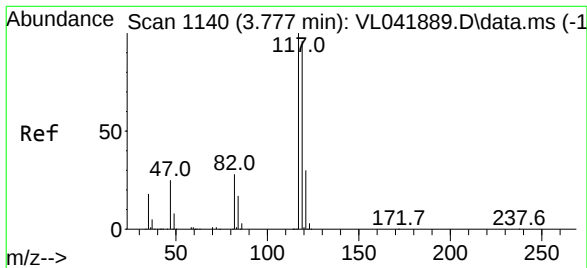
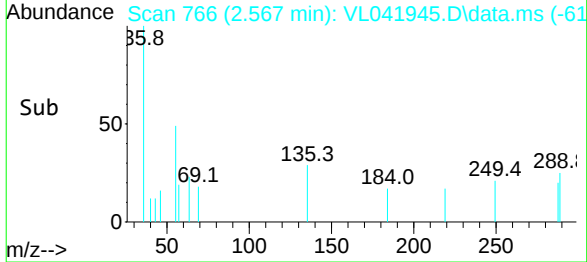
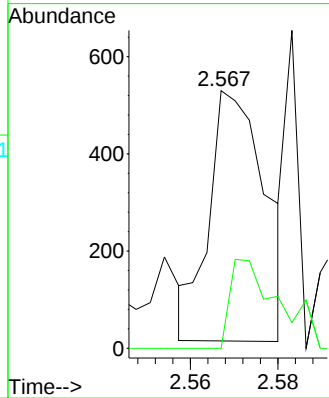
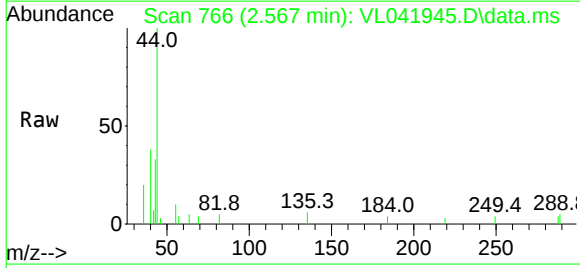




#34
2-Butanone
Concen: 0.017 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.000 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

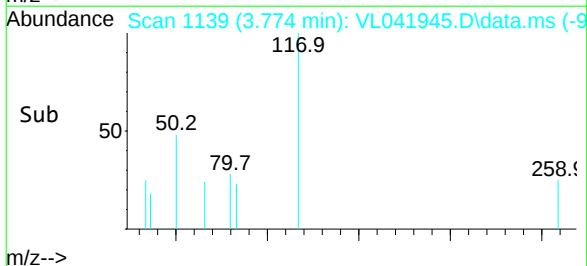
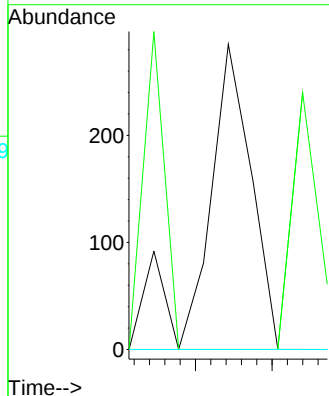
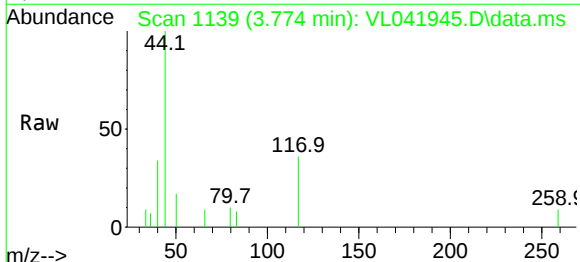
Instrument :
MSVOA_L
ClientSampleId :
VL0127ABL01

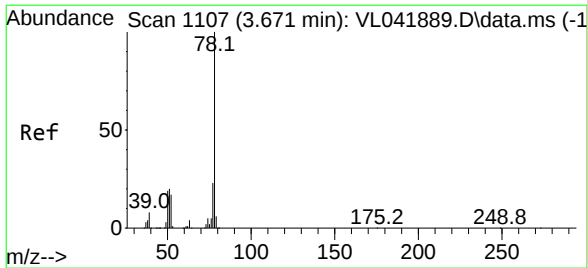
Tgt Ion: 43 Resp: 457
Ion Ratio Lower Upper
43 100
72 30.6 18.6 28.0#



#35
Carbon Tetrachloride
Concen: 0.004 ppbv
RT: 3.774 min Scan# 1139
Delta R.T. -0.003 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

Tgt Ion: 117 Resp: 102
Ion Ratio Lower Upper
117 100
119 0.0 76.9 115.3#
121 0.0 23.8 35.6#





#36

Benzene

Concen: 0.007 ppbv

RT: 3.664 min Scan# 11

Delta R.T. -0.006 min

Lab File: VL041945.D

Acq: 27 Jan 2025 10:47

Instrument :

MSVOA_L

ClientSampleId :

VL0127ABL01

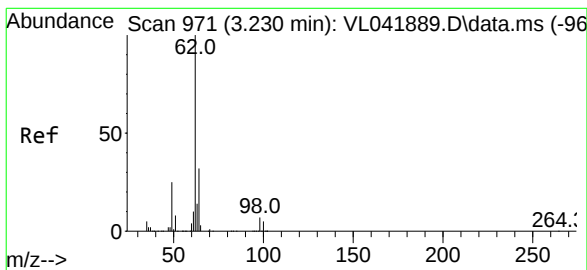
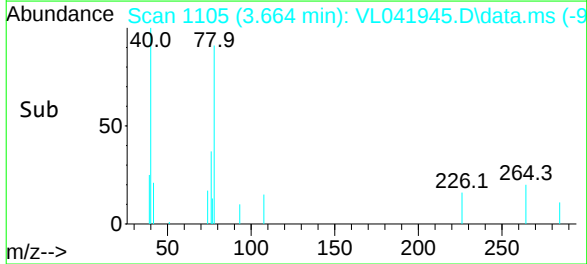
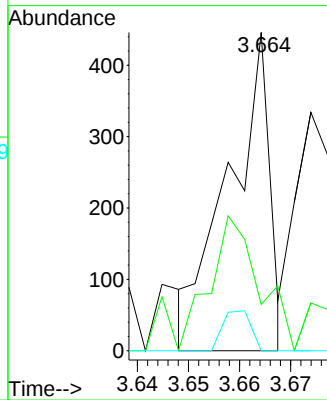
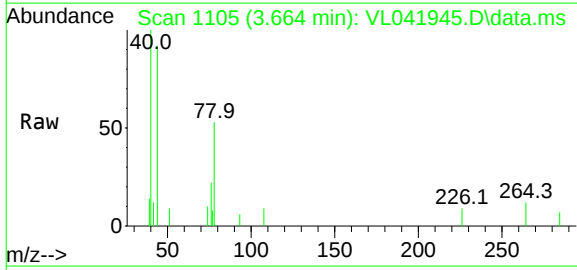
Tgt Ion: 78 Resp: 248

Ion Ratio Lower Upper

78 100

77 17.3 18.1 27.1#

50 0.0 15.2 22.8#



#37

1,2-Dichloroethane

Concen: 0.005 ppbv

RT: 3.227 min Scan# 970

Delta R.T. -0.003 min

Lab File: VL041945.D

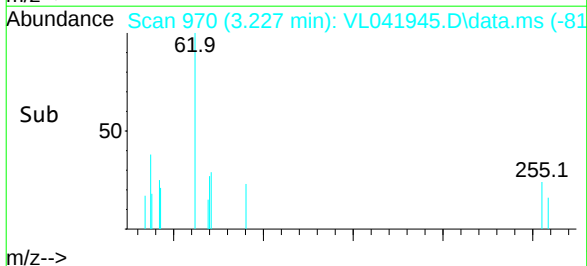
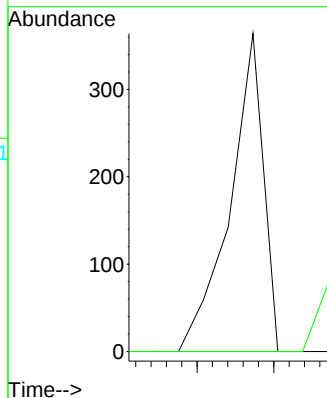
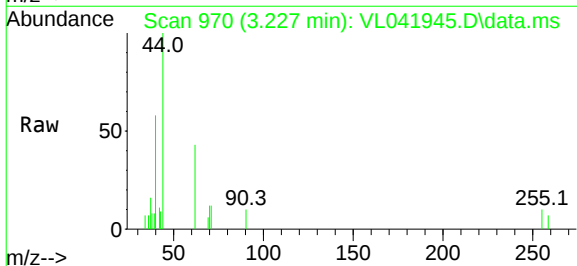
Acq: 27 Jan 2025 10:47

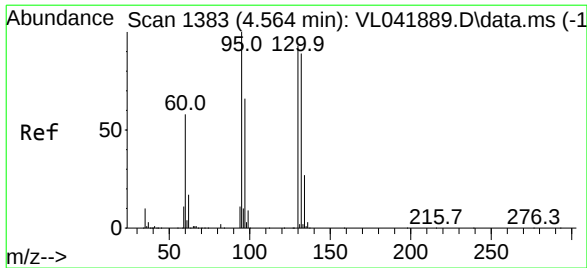
Tgt Ion: 62 Resp: 110

Ion Ratio Lower Upper

62 100

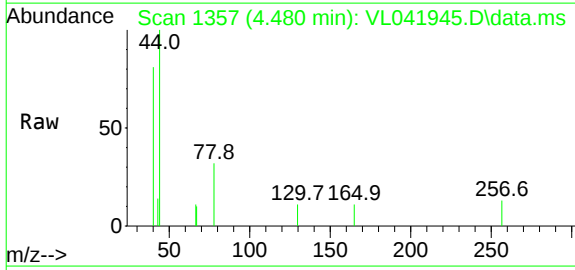
98 0.0 5.4 8.0#



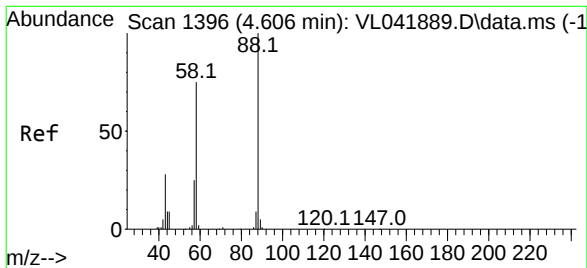
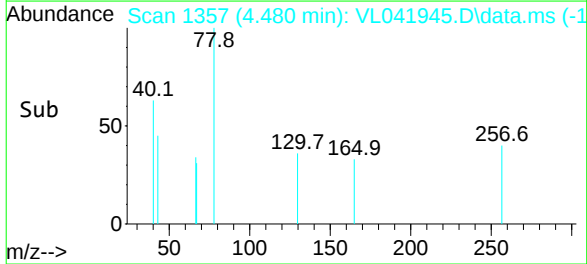
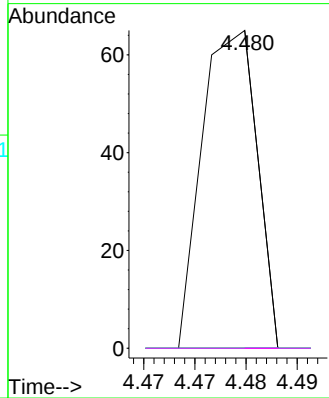


#38
Trichloroethene
Concen: 0.002 ppbv
RT: 4.480 min Scan# 13
Delta R.T. -0.084 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

Instrument :
MSVOA_L
ClientSampleId :
VL0127ABL01

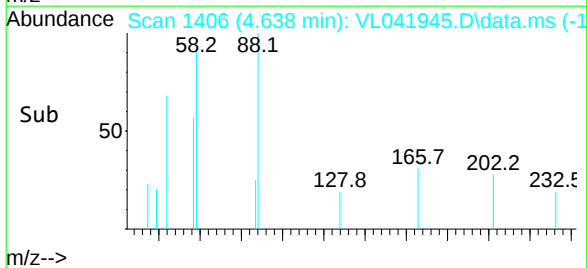
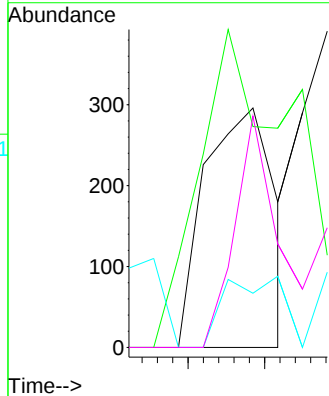
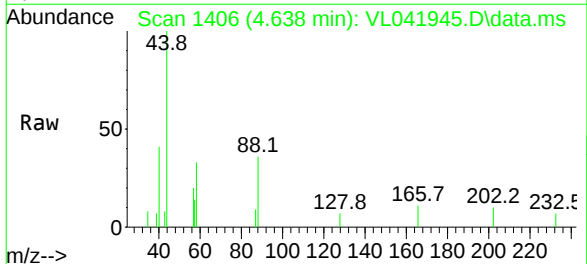


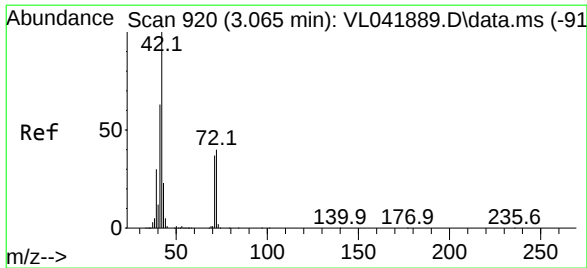
Tgt Ion: 130 Resp: 24
Ion Ratio Lower Upper
130 100
95 0.0 85.8 128.8#
132 0.0 76.5 114.7#
97 0.0 56.8 85.2#



#40
1,4-Dioxane
Concen: 0.028 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. 0.033 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

Tgt Ion: 88 Resp: 188
Ion Ratio Lower Upper
88 100
58 277.7 62.1 93.1#
43 21.3 0.0 0.0#
57 110.1 0.0 0.0#





#41

Tetrahydrofuran

Concen: 0.001 ppbv

RT: 3.062 min Scan# 91

Delta R.T. -0.003 min

Lab File: VL041945.D

Acq: 27 Jan 2025 10:47

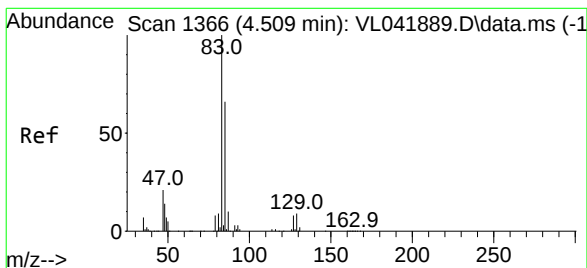
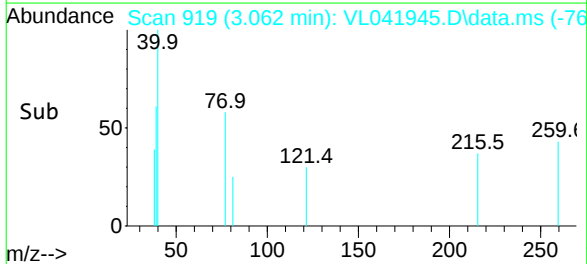
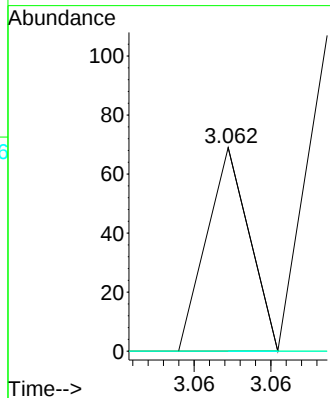
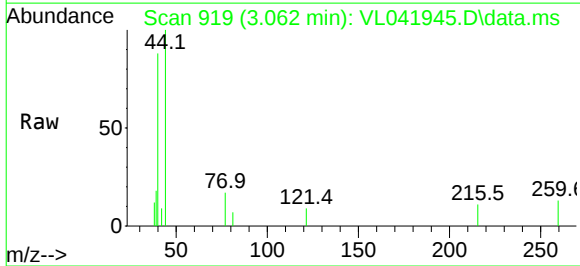
Instrument :

MSVOA_L

ClientSampleId :

VL0127ABL01

Tgt Ion:	42	Resp:	13
Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.3	48.5#
71	0.0	29.9	44.9#



#42

Bromodichloromethane

Concen: 0.002 ppbv

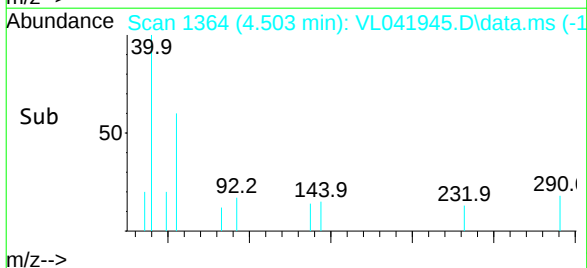
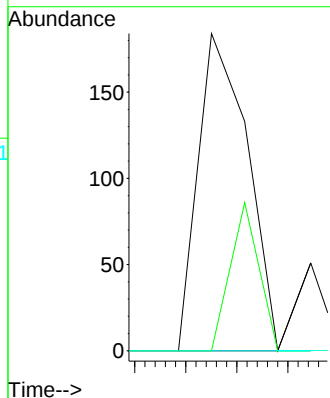
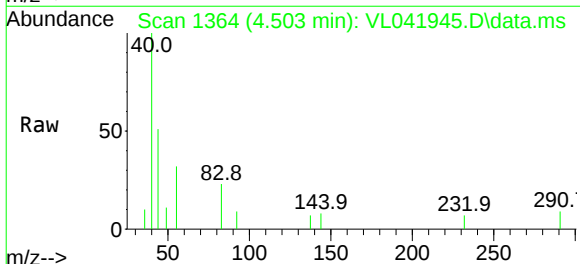
RT: 4.503 min Scan# 1364

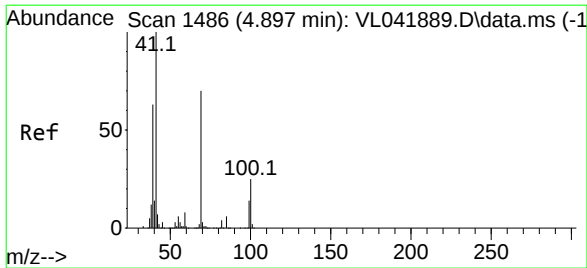
Delta R.T. -0.006 min

Lab File: VL041945.D

Acq: 27 Jan 2025 10:47

Tgt Ion:	83	Resp:	62
Ion	Ratio	Lower	Upper
83	100		
85	0.0	52.6	78.8#
127	0.0	6.4	9.6#

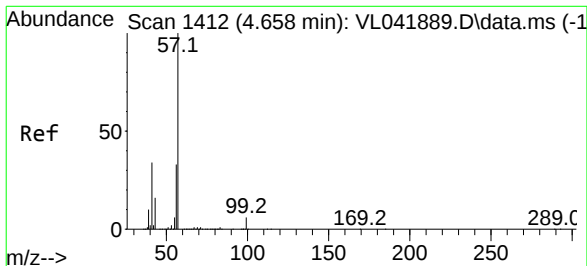
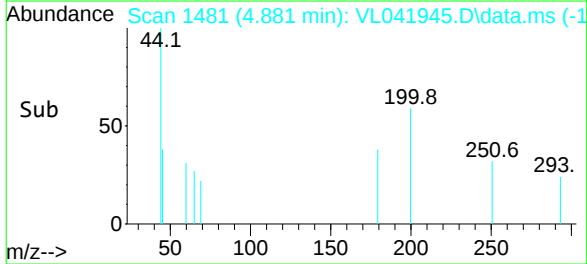
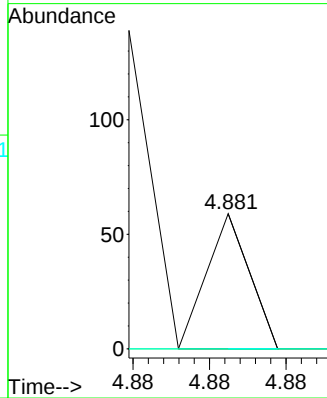
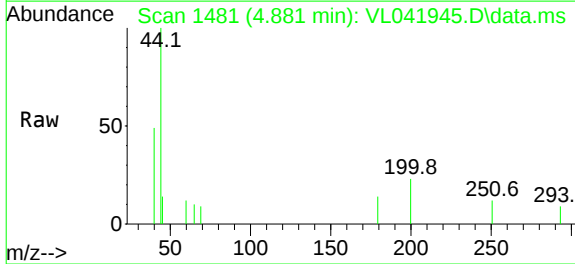




#43
Methyl Methacrylate
Concen: 0.001 ppbv
RT: 4.881 min Scan# 1486
Delta R.T. -0.016 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

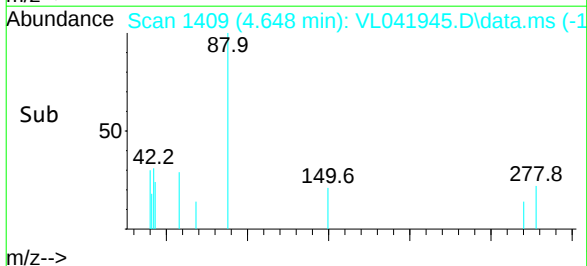
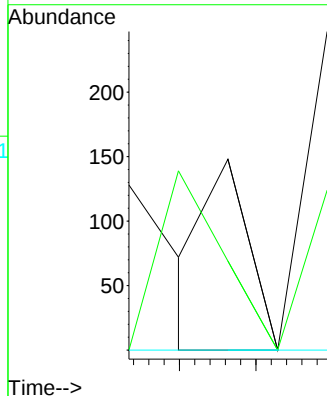
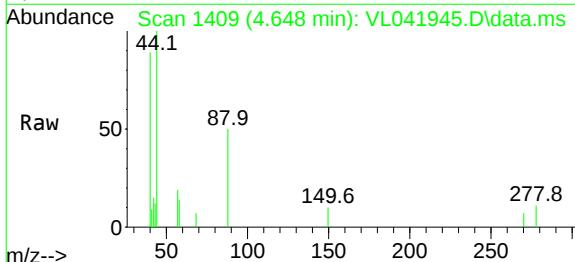
Instrument :
MSVOA_L
ClientSampleId :
VL0127ABL01

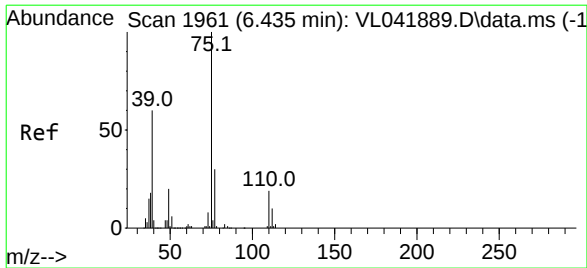
Tgt Ion: 69 Resp: 11
Ion Ratio Lower Upper
69 100
41 1836.4 118.6 177.8#
100 572.7 29.3 43.9#



#44
2,2,4-Trimethylpentane
Concen: 0.000 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. -0.010 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

Tgt Ion: 57 Resp: 29
Ion Ratio Lower Upper
57 100
41 813.8 26.6 40.0#
56 0.0 25.4 38.2#





#45

t-1,3-Dichloropropene

Concen: 0.002 ppbv

RT: 6.027 min Scan# 1835

Delta R.T. -0.408 min

Lab File: VL041945.D

Acq: 27 Jan 2025 10:47

Instrument :

MSVOA_L

ClientSampleId :

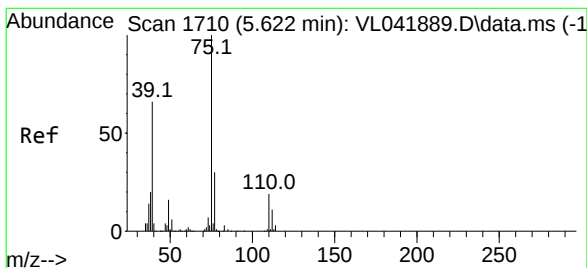
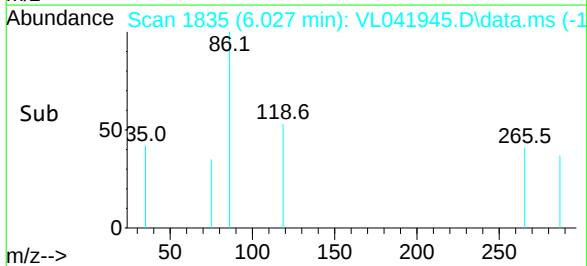
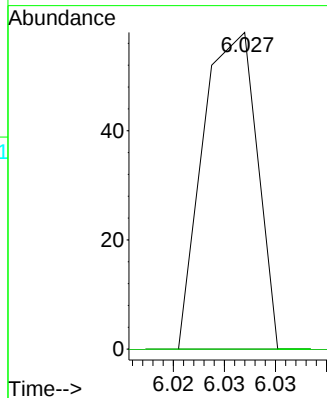
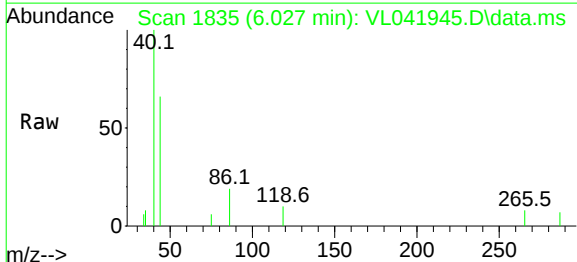
VL0127ABL01

Tgt Ion: 75 Resp: 21

Ion Ratio Lower Upper

75 100

77 0.0 24.3 36.5#



#46

cis-1,3-Dichloropropene

Concen: 0.001 ppbv

RT: 6.027 min Scan# 1835

Delta R.T. 0.405 min

Lab File: VL041945.D

Acq: 27 Jan 2025 10:47

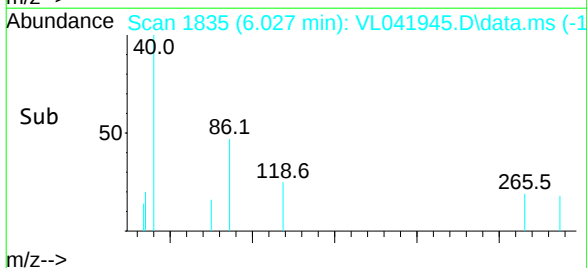
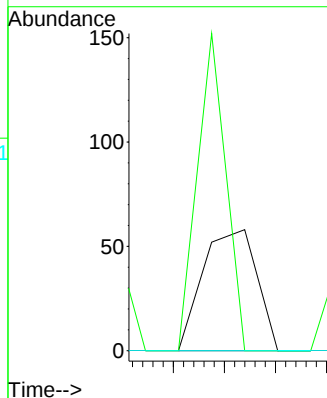
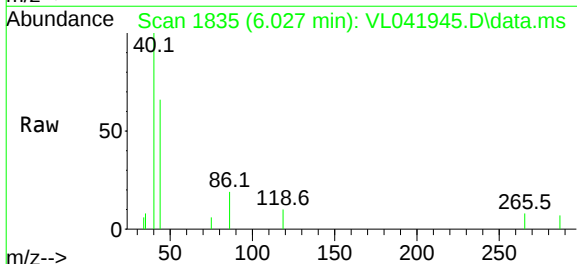
Tgt Ion: 75 Resp: 21

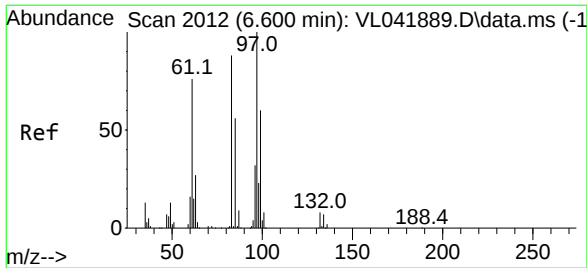
Ion Ratio Lower Upper

75 100

39 0.0 53.1 79.7#

77 0.0 23.8 35.8#

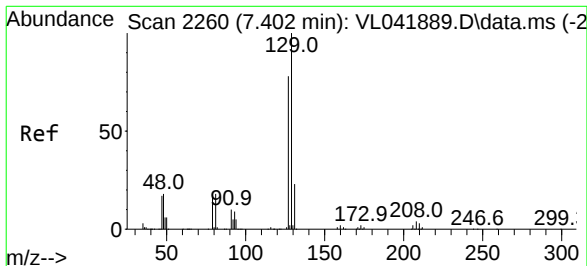
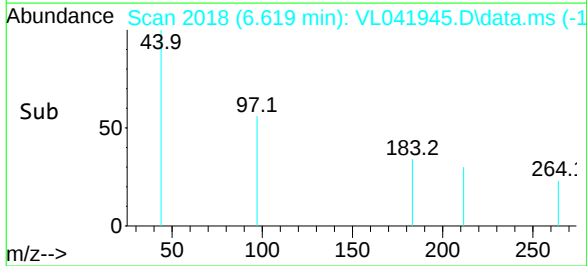
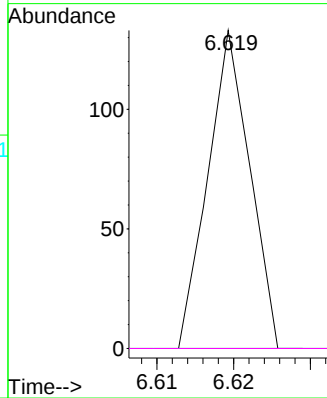
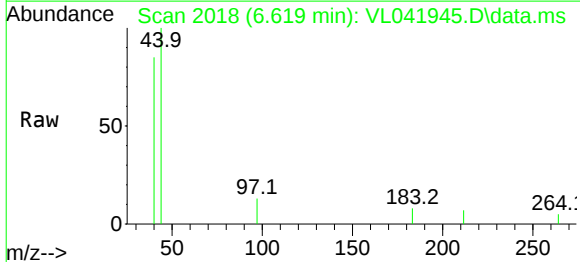




#47
 1,1,2-Trichloroethane
 Concen: 0.004 ppbv
 RT: 6.619 min Scan# 20
 Delta R.T. 0.020 min
 Lab File: VL041945.D
 Acq: 27 Jan 2025 10:47

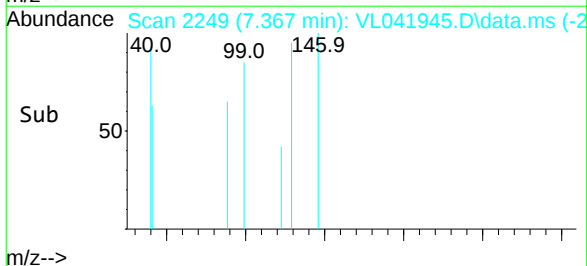
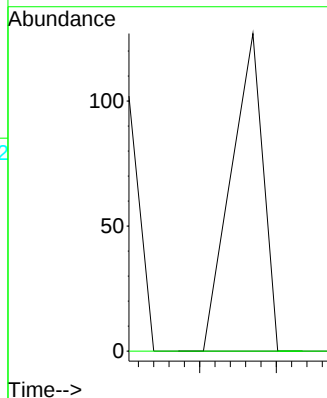
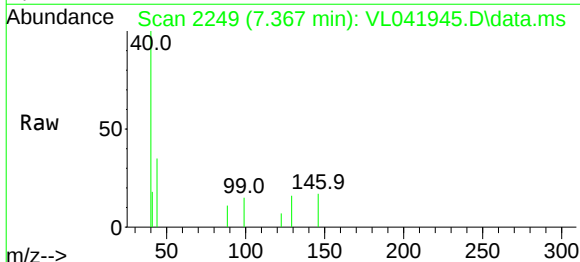
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0127ABL01

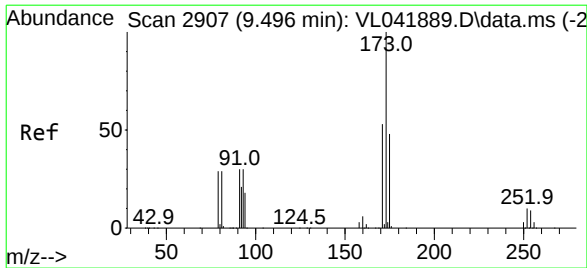
Tgt Ion:	97	Resp:	50
Ion	Ratio	Lower	Upper
97	100		
83	0.0	70.4	105.6#
85	0.0	45.0	67.4#
99	0.0	48.1	72.1#



#48
 Dibromochloromethane
 Concen: 0.002 ppbv
 RT: 7.367 min Scan# 2249
 Delta R.T. -0.035 min
 Lab File: VL041945.D
 Acq: 27 Jan 2025 10:47

Tgt Ion:	129	Resp:	37
Ion	Ratio	Lower	Upper
129	100		
127	181.1	39.3	117.8#

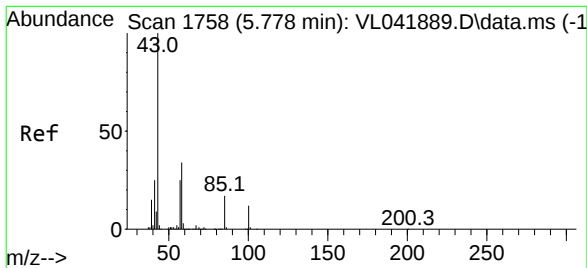
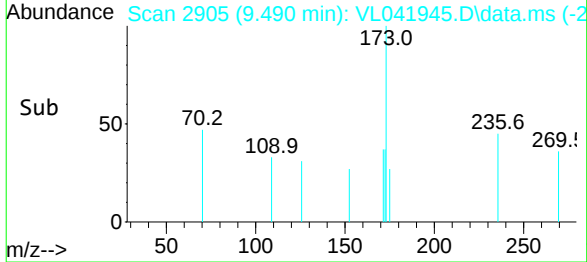
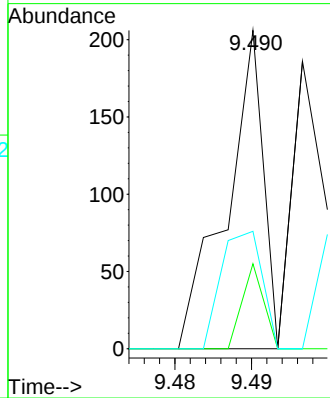
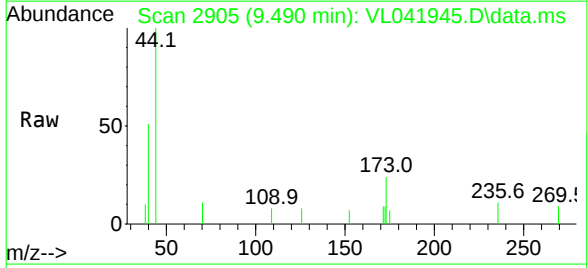




#49
Bromoform
Concen: 0.004 ppbv
RT: 9.490 min Scan# 29
Delta R.T. -0.006 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

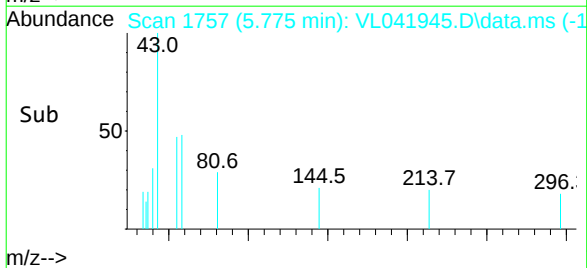
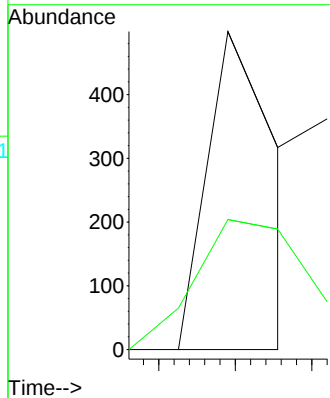
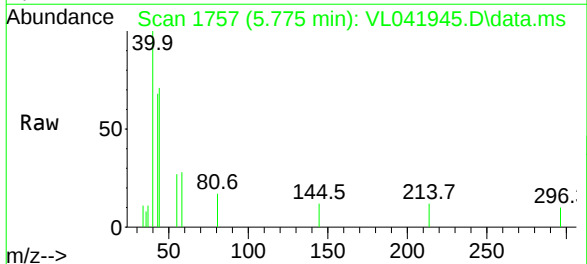
Instrument :
MSVOA_L
ClientSampleId :
VL0127ABL01

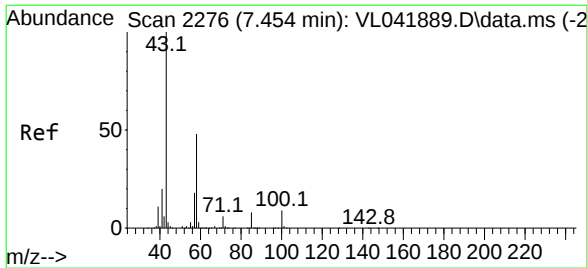
Tgt Ion: 173 Resp: 69
Ion Ratio Lower Upper
173 100
175 0.0 38.4 57.6#
171 62.3 41.4 62.2#



#50
4-Methyl-2-Pentanone
Concen: 0.004 ppbv
RT: 5.775 min Scan# 1757
Delta R.T. -0.003 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

Tgt Ion: 43 Resp: 159
Ion Ratio Lower Upper
43 100
58 0.0 29.0 43.6#

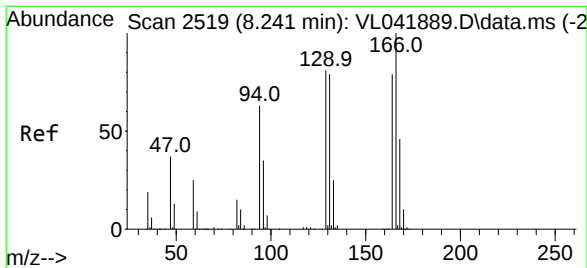
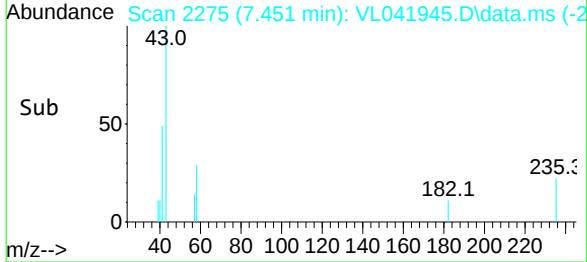
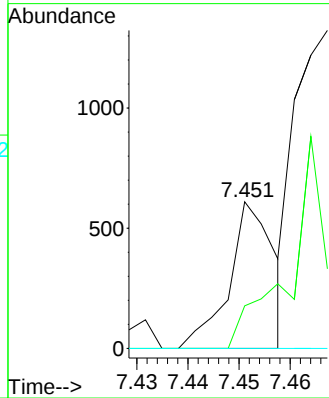
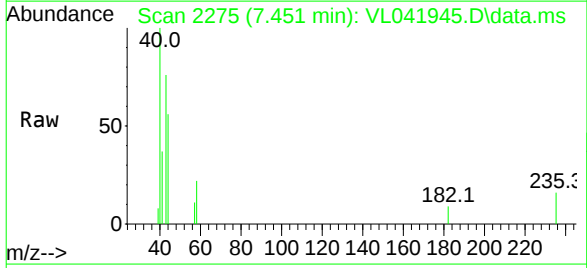




#51
2-Hexanone
Concen: 0.014 ppbv
RT: 7.451 min Scan# 2276
Delta R.T. -0.003 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

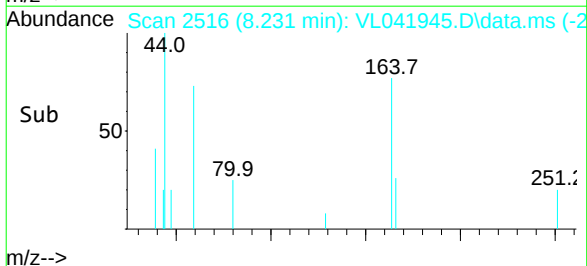
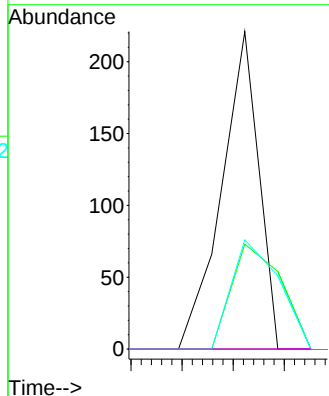
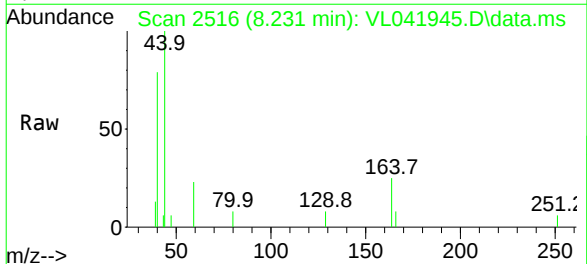
Instrument :
MSVOA_L
ClientSampleId :
VL0127ABL01

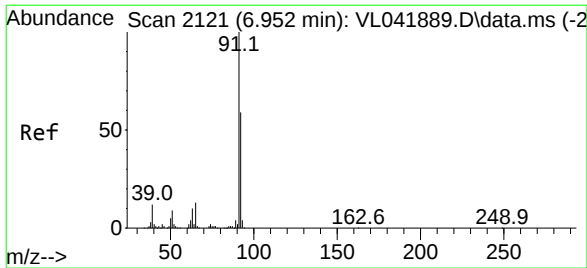
Tgt Ion: 43 Resp: 370
Ion Ratio Lower Upper
43 100
58 0.0 40.4 60.6#
98 0.0 0.2 0.2#



#52
Tetrachloroethene
Concen: 0.004 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. -0.010 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

Tgt Ion: 164 Resp: 56
Ion Ratio Lower Upper
164 100
166 33.0 100.8 151.2#
129 34.4 82.0 123.0#
131 0.0 80.2 120.2#





#53

Toluene

Concen: 0.002 ppbv

RT: 6.946 min Scan# 21

Delta R.T. -0.006 min

Lab File: VL041945.D

Acq: 27 Jan 2025 10:47

Instrument :

MSVOA_L

ClientSampleId :

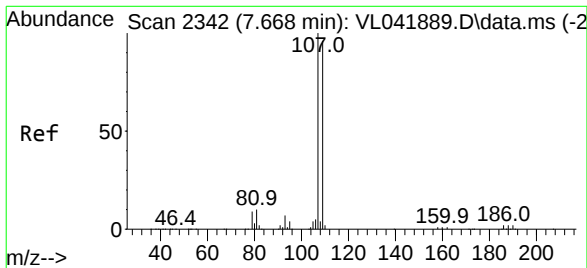
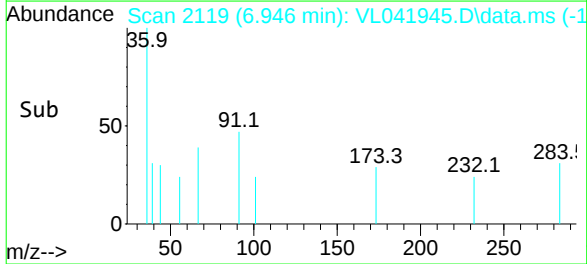
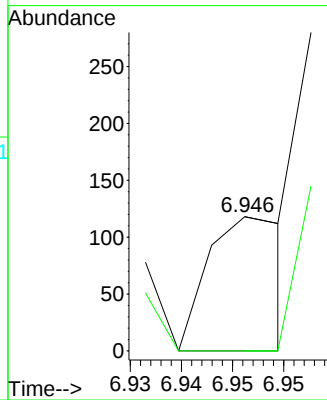
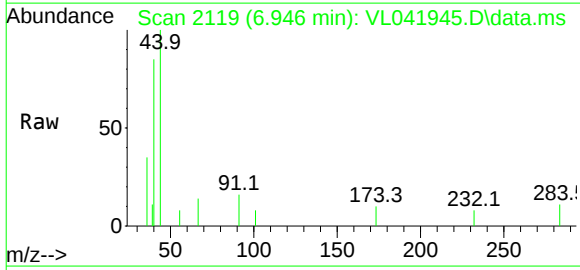
VL0127ABL01

Tgt Ion: 91 Resp: 63

Ion Ratio Lower Upper

91 100

92 0.0 47.4 71.0#



#54

1,2-Dibromoethane

Concen: 0.001 ppbv

RT: 7.856 min Scan# 2400

Delta R.T. 0.188 min

Lab File: VL041945.D

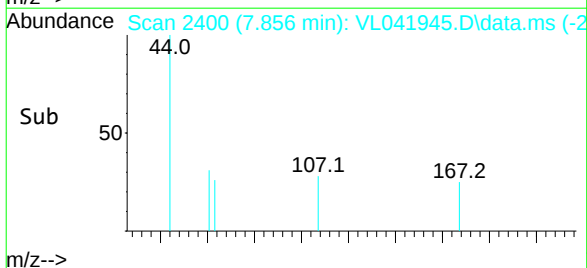
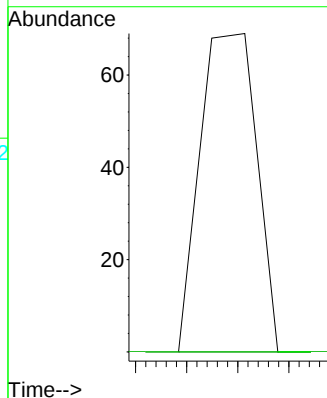
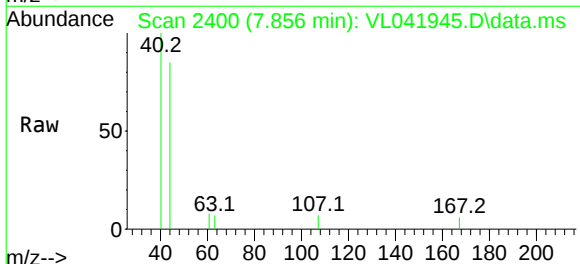
Acq: 27 Jan 2025 10:47

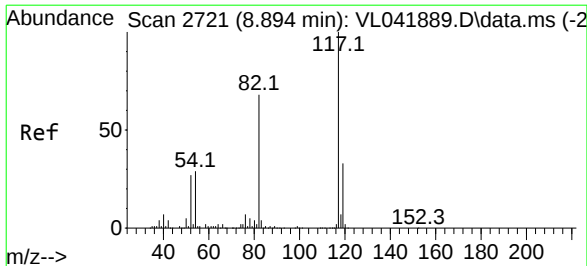
Tgt Ion: 107 Resp: 27

Ion Ratio Lower Upper

107 100

109 0.0 76.7 115.1#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.891 min Scan# 2721

Delta R.T. -0.003 min

Lab File: VL041945.D

Acq: 27 Jan 2025 10:47

Instrument :

MSVOA_1

ClientSampleId :

VL0127ABL01

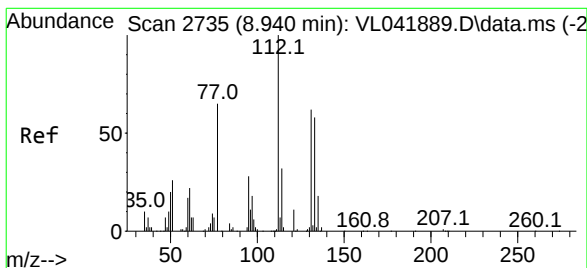
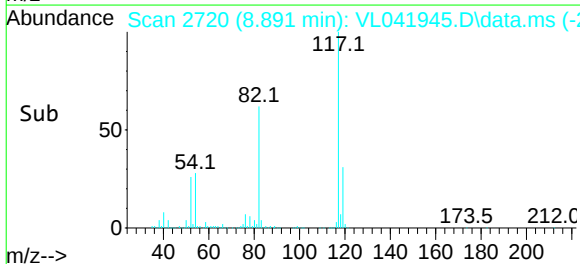
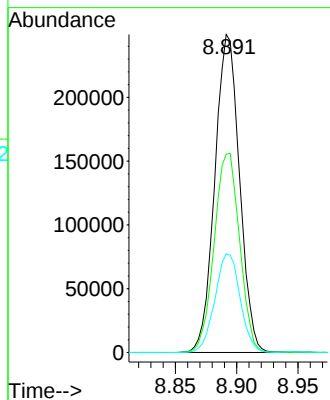
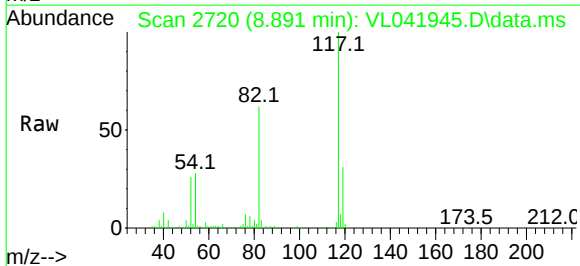
Tgt Ion:117 Resp: 349106

Ion Ratio Lower Upper

117 100

82 64.6 54.2 81.4

119 31.7 25.0 37.6



#56

1,1,1,2-Tetrachloroethane

Concen: 0.004 ppbv

RT: 8.943 min Scan# 2736

Delta R.T. 0.003 min

Lab File: VL041945.D

Acq: 27 Jan 2025 10:47

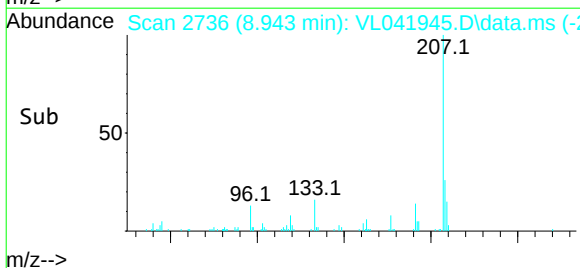
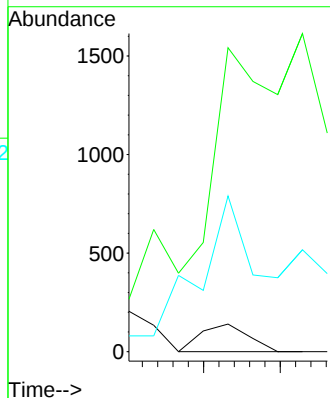
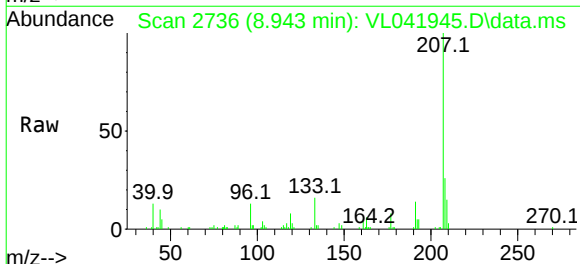
Tgt Ion:131 Resp: 61

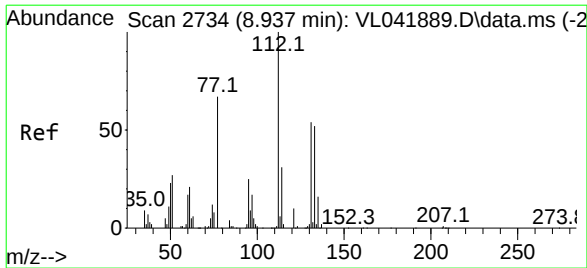
Ion Ratio Lower Upper

131 100

133 4045.9 76.0 114.0#

119 0.0 49.7 74.5#

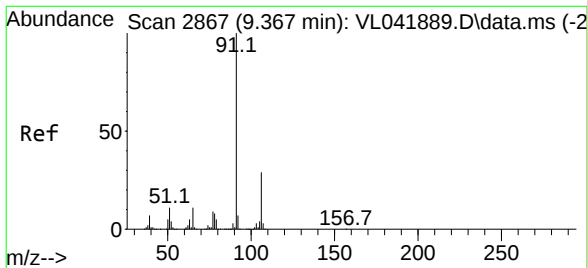
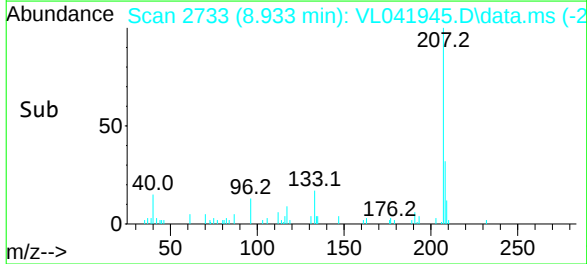
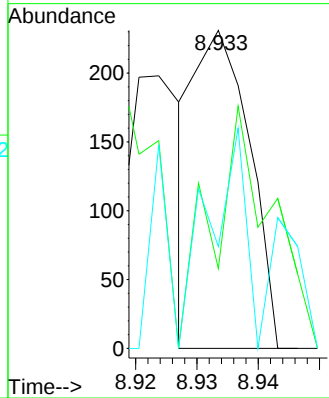
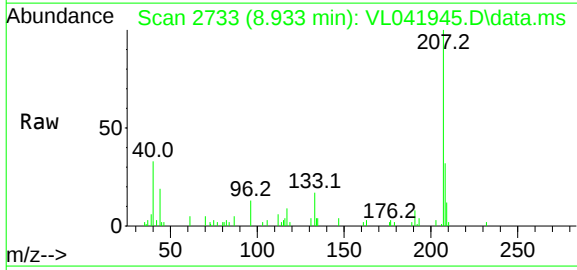




#57
Chlorobenzene
Concen: 0.005 ppbv
RT: 8.933 min Scan# 27
Delta R.T. -0.003 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

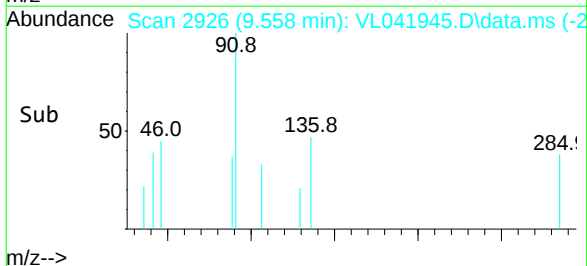
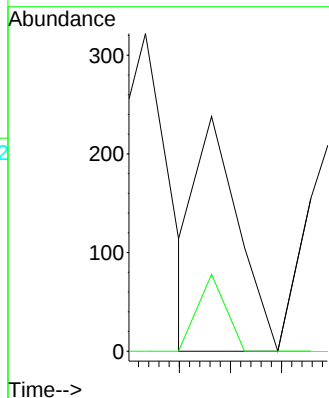
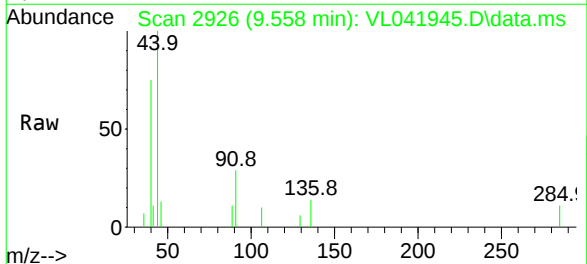
Instrument :
MSVOA_L
ClientSampleId :
VL0127ABL01

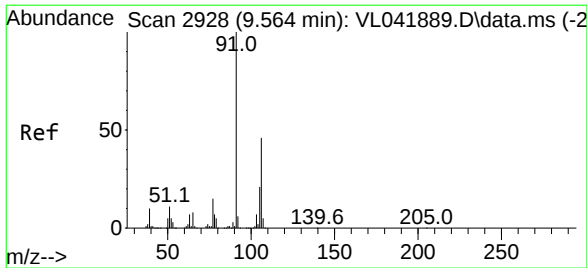
Tgt Ion:	112	Resp:	145
Ion	Ratio	Lower	Upper
112	100		
77	25.1	54.6	82.0#
114	10.0	28.2	34.4#



#58
Ethyl Benzene
Concen: 0.001 ppbv
RT: 9.558 min Scan# 2926
Delta R.T. 0.191 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

Tgt Ion:	91	Resp:	67
Ion	Ratio	Lower	Upper
91	100		
106	32.8	23.1	34.7

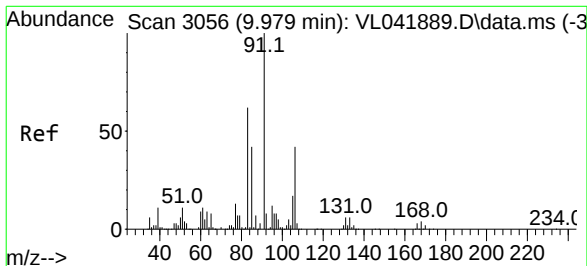
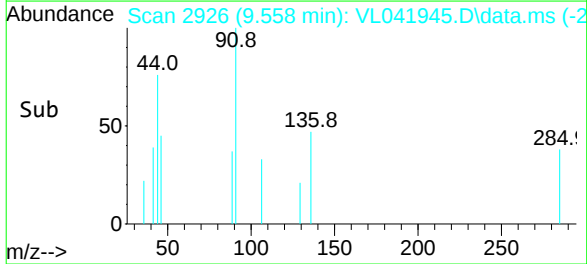
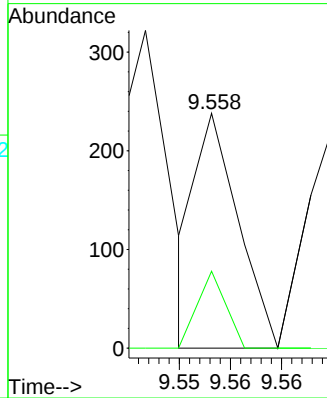
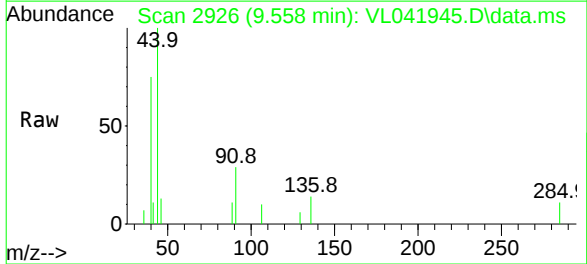




#59
m/p-Xylene
Concen: 0.002 ppbv
RT: 9.558 min Scan# 29
Delta R.T. -0.006 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

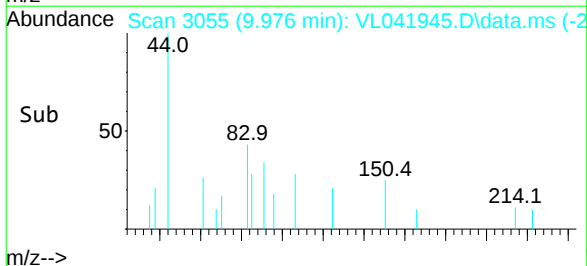
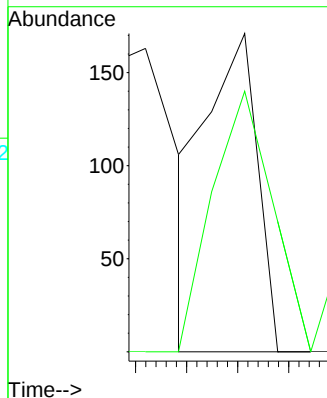
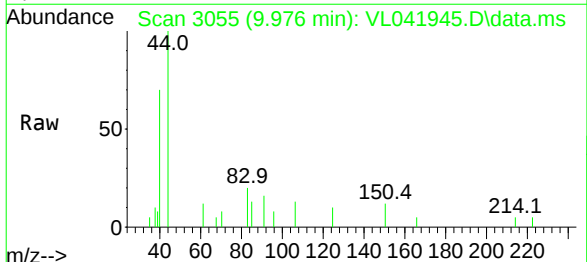
Instrument :
MSVOA_L
ClientSampleId :
VL0127ABL01

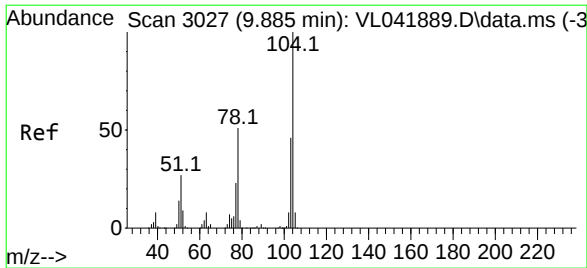
Tgt Ion: 91 Resp: 67
Ion Ratio Lower Upper
91 100
106 0.0 36.0 54.0#



#60
o-Xylene
Concen: 0.001 ppbv
RT: 9.976 min Scan# 3055
Delta R.T. -0.003 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

Tgt Ion: 91 Resp: 58
Ion Ratio Lower Upper
91 100
106 119.0 21.3 63.9#





#61

Styrene

Concen: 0.003 ppbv

RT: 9.882 min Scan# 3027

Delta R.T. -0.003 min

Lab File: VL041945.D

Acq: 27 Jan 2025 10:47

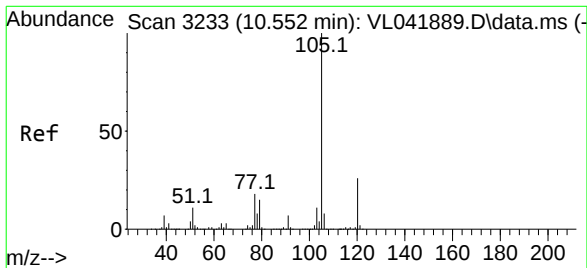
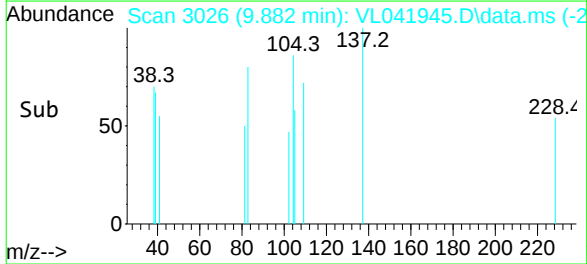
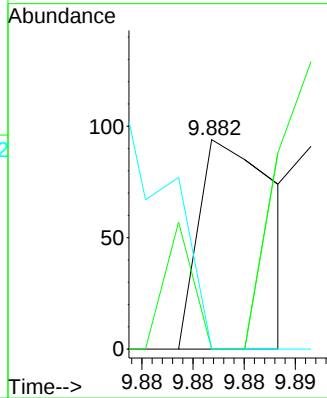
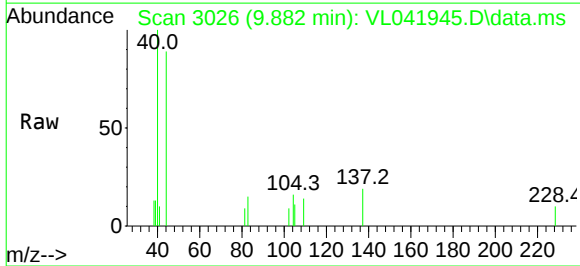
Instrument :

MSVOA_L

ClientSampleId :

VL0127ABL01

Tgt Ion:	104	Resp:	49
Ion	Ratio	Lower	Upper
104	100		
78	0.0	41.0	61.6#
103	114.3	37.2	55.8#



#62

Isopropylbenzene

Concen: 0.002 ppbv

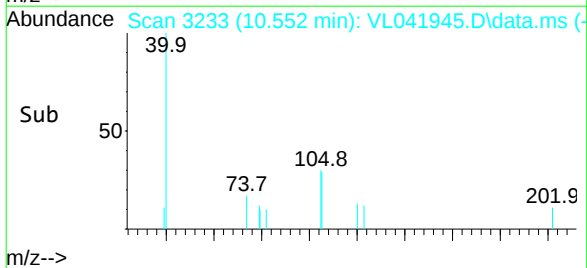
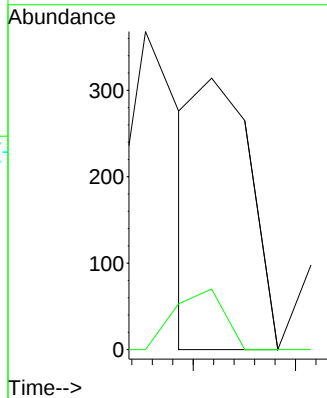
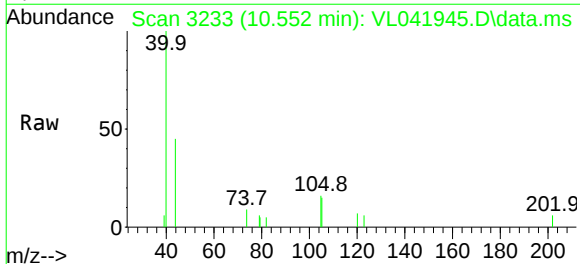
RT: 10.552 min Scan# 3233

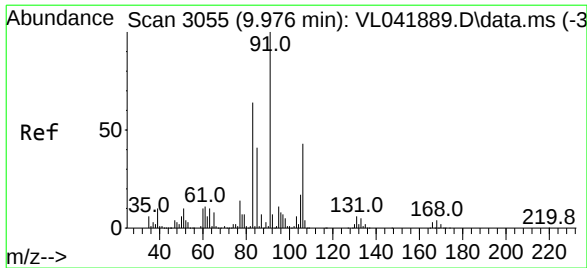
Delta R.T. 0.000 min

Lab File: VL041945.D

Acq: 27 Jan 2025 10:47

Tgt Ion:	105	Resp:	112
Ion	Ratio	Lower	Upper
105	100		
120	21.4	20.3	30.5

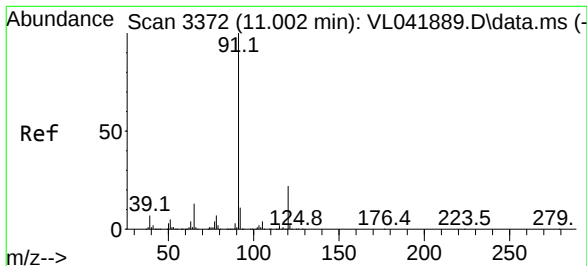
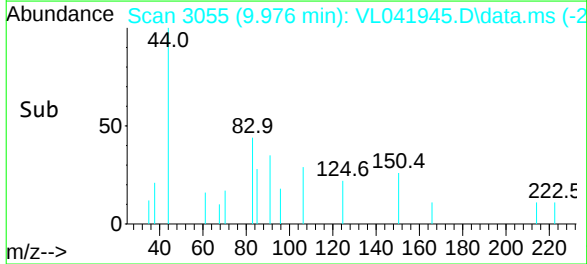
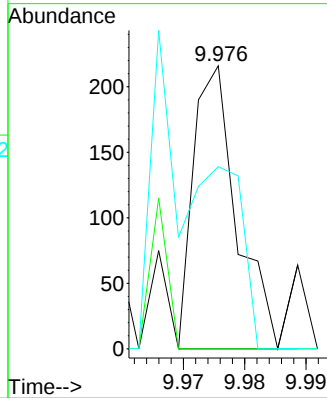
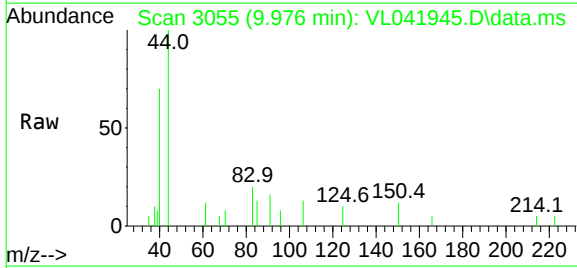




#63
1,1,2,2-Tetrachloroethane
Concen: 0.004 ppbv
RT: 9.976 min Scan# 3055
Delta R.T. 0.000 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

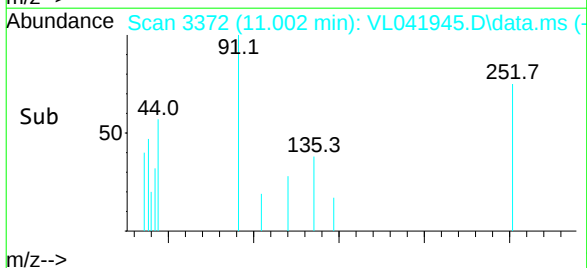
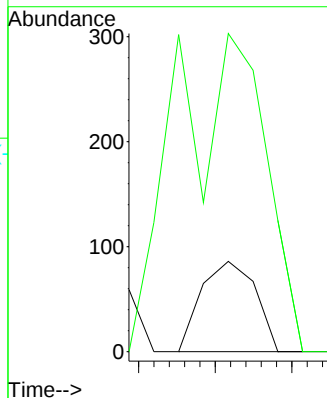
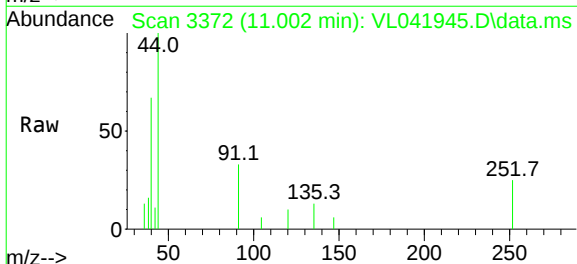
Instrument :
MSVOA_L
ClientSampleId :
VL0127ABL01

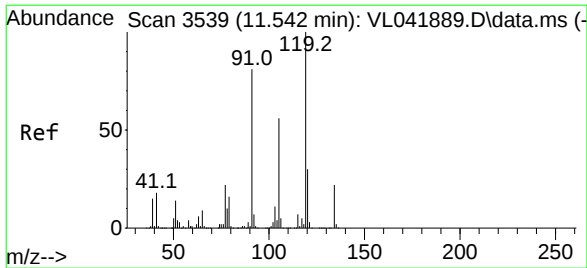
Tgt Ion:	83	Resp:	106
Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.8	14.4#
85	0.0	32.4	97.2#



#64
n-propylbenzene
Concen: 0.002 ppbv
RT: 11.002 min Scan# 3372
Delta R.T. 0.000 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

Tgt Ion:	120	Resp:	42
Ion	Ratio	Lower	Upper
120	100		
91	626.2	374.1	561.1#





#65

tert-Butylbenzene

Concen: 0.003 ppbv

RT: 11.539 min Scan# 3539

Delta R.T. -0.003 min

Lab File: VL041945.D

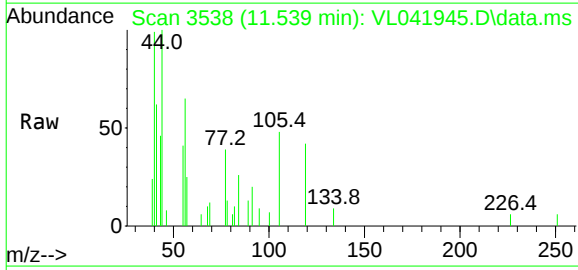
Acq: 27 Jan 2025 10:47

Instrument :

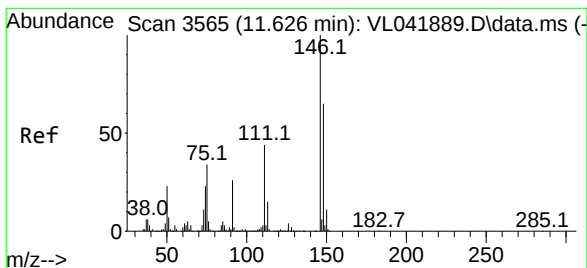
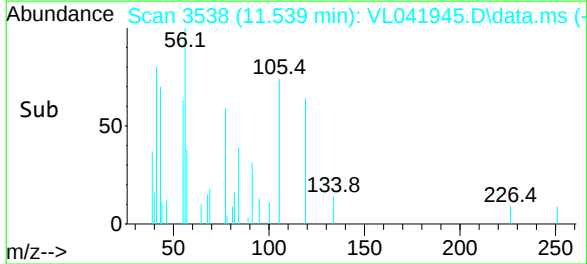
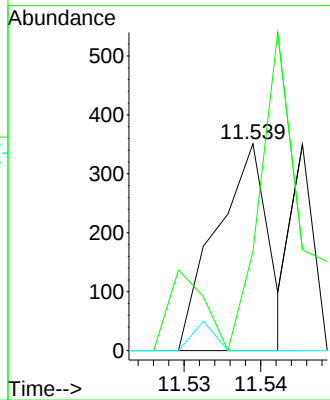
MSVOA_L

ClientSampleId :

VL0127ABL01



Tgt Ion:	119	Resp:	167
Ion	Ratio	Lower	Upper
119	100		
91	0.0	64.6	97.0#
134	0.0	16.8	25.2#



#66

Benzyl Chloride

Concen: 0.010 ppbv

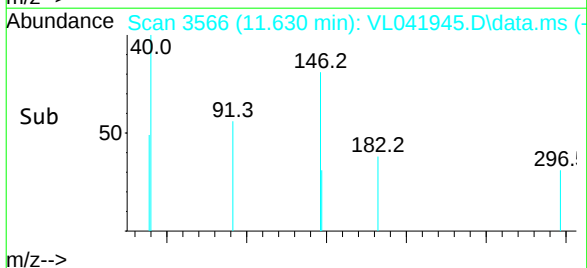
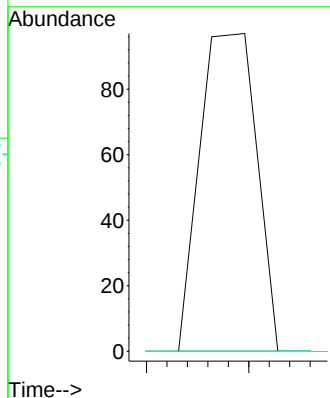
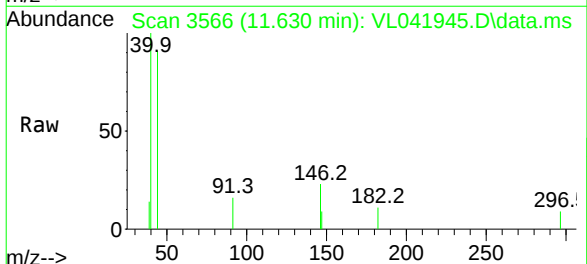
RT: 11.630 min Scan# 3566

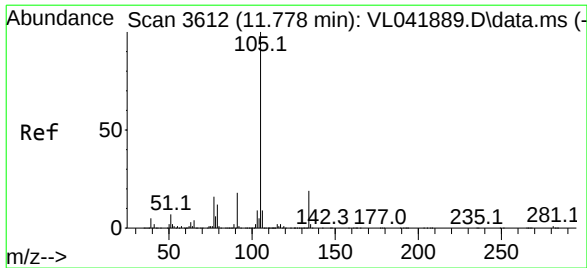
Delta R.T. 0.003 min

Lab File: VL041945.D

Acq: 27 Jan 2025 10:47

Tgt Ion:	91	Resp:	37
Ion	Ratio	Lower	Upper
91	100		
126	0.0	14.1	21.1#
128	0.0	4.3	6.5#





#67

sec-Butylbenzene

Concen: 0.002 ppbv

RT: 11.775 min Scan# 3612

Delta R.T. -0.003 min

Lab File: VL041945.D

Acq: 27 Jan 2025 10:47

Instrument :

MSVOA_L

ClientSampleId :

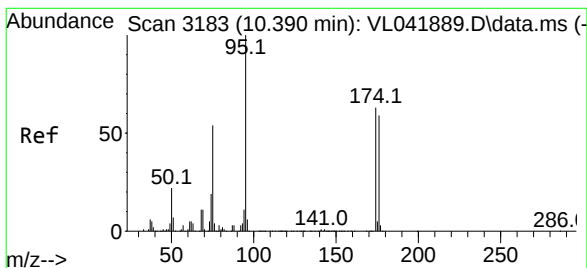
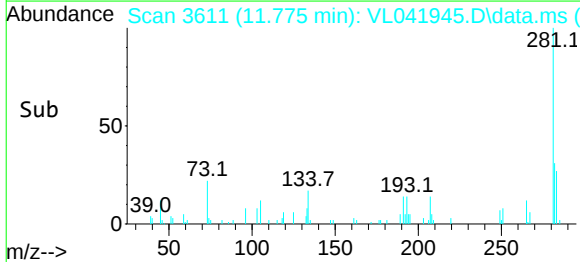
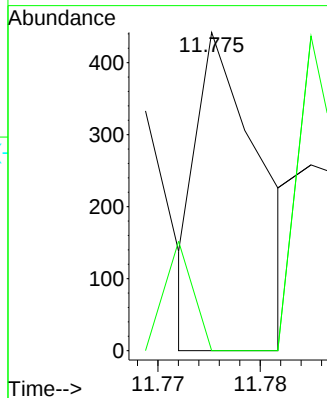
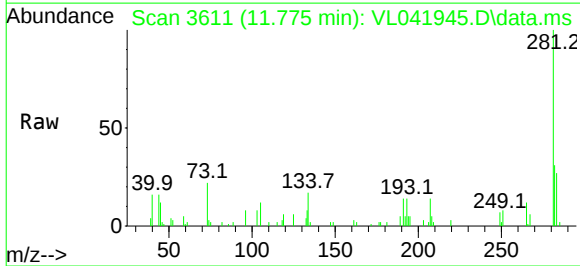
VL0127ABL01

Tgt Ion:105 Resp: 189

Ion Ratio Lower Upper

105 100

134 0.0 15.1 22.7#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.602 ppbv

RT: 10.384 min Scan# 3181

Delta R.T. -0.006 min

Lab File: VL041945.D

Acq: 27 Jan 2025 10:47

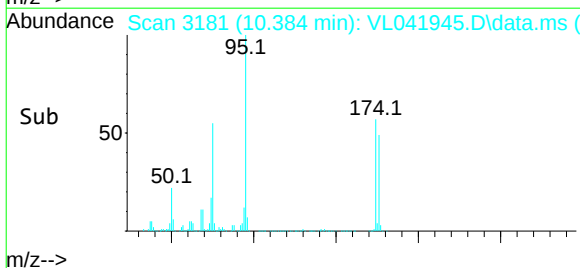
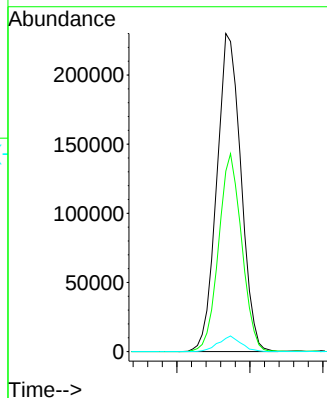
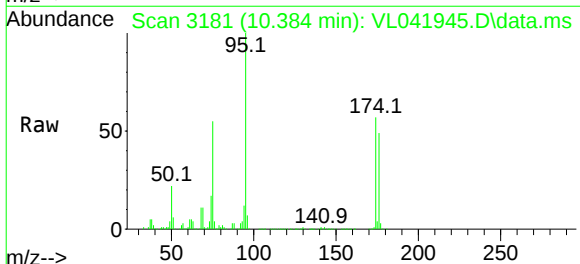
Tgt Ion: 95 Resp: 264022

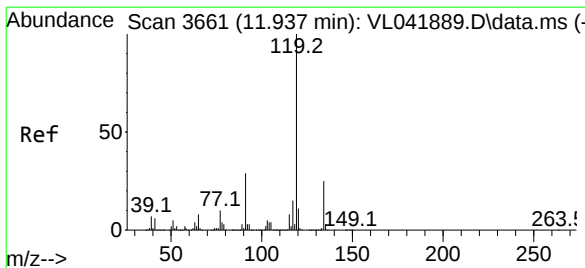
Ion Ratio Lower Upper

95 100

174 59.7 49.0 73.4

175 4.6 3.8 5.8

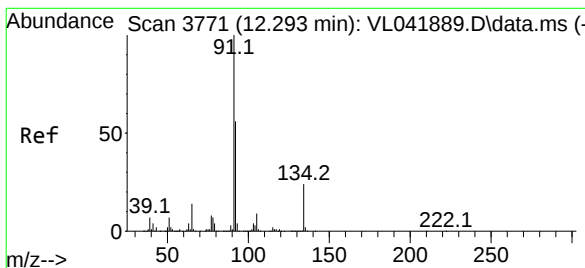
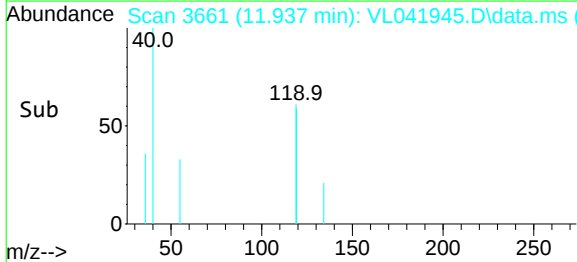
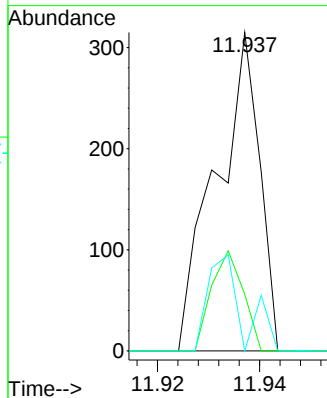
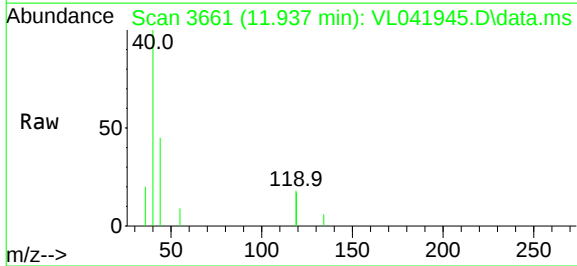




#69
p-Isopropyltoluene
Concen: 0.003 ppbv
RT: 11.937 min Scan# 3661
Delta R.T. 0.000 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

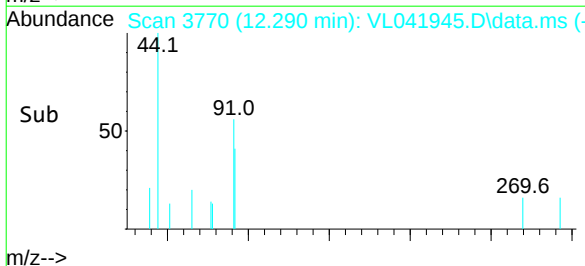
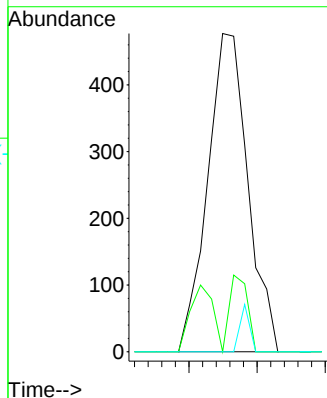
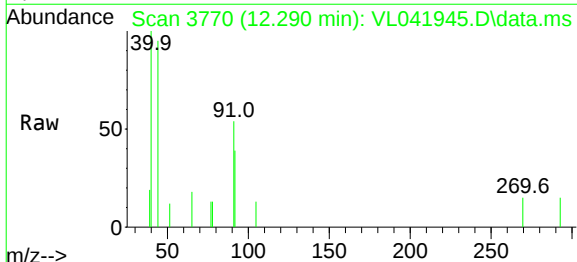
Instrument :
MSVOA_1
ClientSampleId :
VL0127ABL01

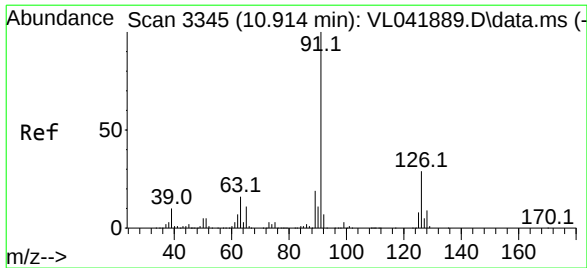
Tgt Ion:	119	Resp:	186
Ion	Ratio	Lower	Upper
119	100		
134	23.1	19.8	29.6
91	0.0	23.0	34.4



#70
n-Butylbenzene
Concen: 0.006 ppbv
RT: 12.290 min Scan# 3770
Delta R.T. -0.003 min
Lab File: VL041945.D
Acq: 27 Jan 2025 10:47

Tgt Ion:	91	Resp:	392
Ion	Ratio	Lower	Upper
91	100		
92	22.7	43.8	65.6
134	0.0	19.0	28.6





#71

2-Chlorotoluene

Concen: 0.006 ppbv

RT: 10.911 min Scan# 33

Delta R.T. -0.003 min

Lab File: VL041945.D

Acq: 27 Jan 2025 10:47

Instrument :

MSVOA_L

ClientSampleId :

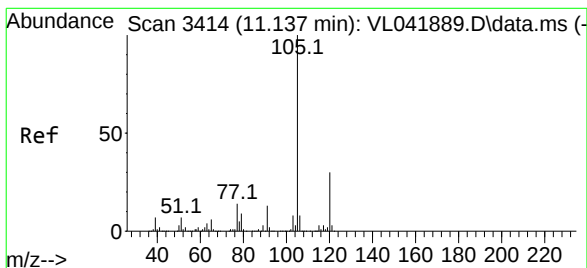
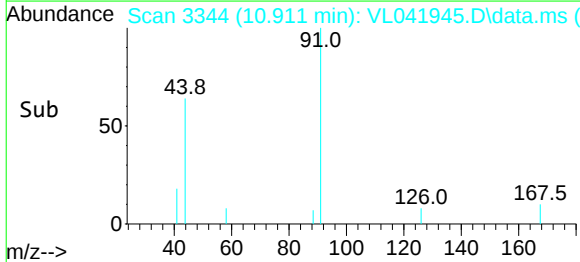
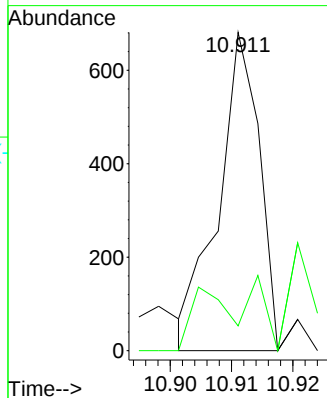
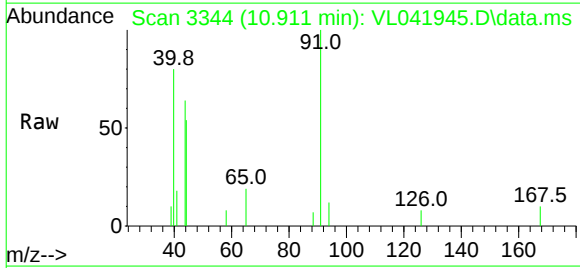
VL0127ABL01

Tgt Ion: 91 Resp: 315

Ion Ratio Lower Upper

91 100

126 0.0 11.7 46.7#



#72

4-Ethyltoluene

Concen: 0.005 ppbv

RT: 11.134 min Scan# 3413

Delta R.T. -0.003 min

Lab File: VL041945.D

Acq: 27 Jan 2025 10:47

Tgt Ion: 105 Resp: 238

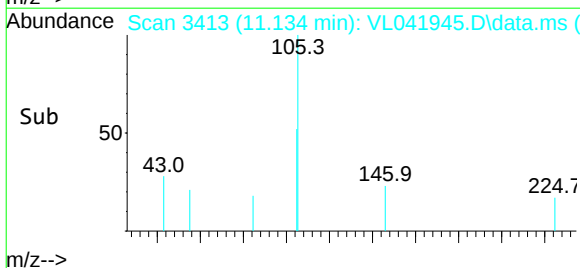
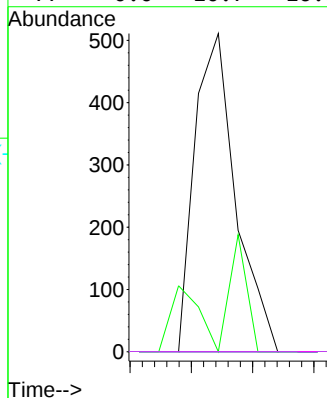
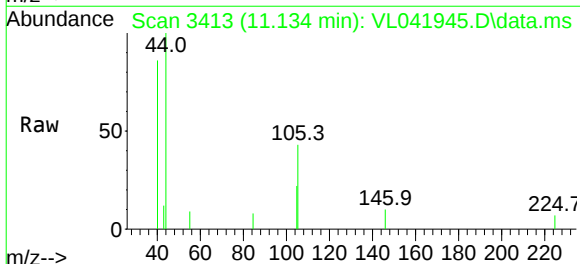
Ion Ratio Lower Upper

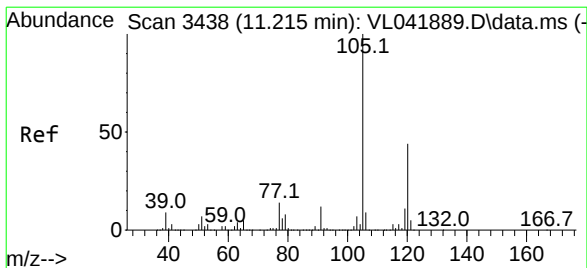
105 100

120 29.8 23.7 35.5

91 0.0 10.2 15.2#

77 0.0 10.7 16.1#





#73

1,3,5-Trimethylbenzene

Concen: 0.007 ppbv

RT: 11.219 min Scan# 3438

Delta R.T. 0.003 min

Lab File: VL041945.D

Acq: 27 Jan 2025 10:47

Instrument :

MSVOA_L

ClientSampleId :

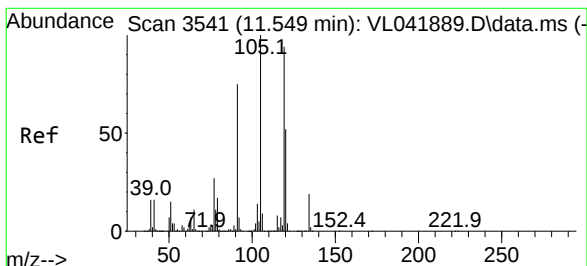
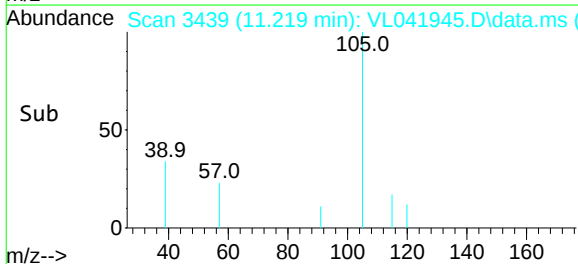
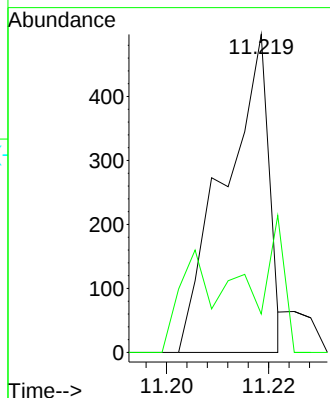
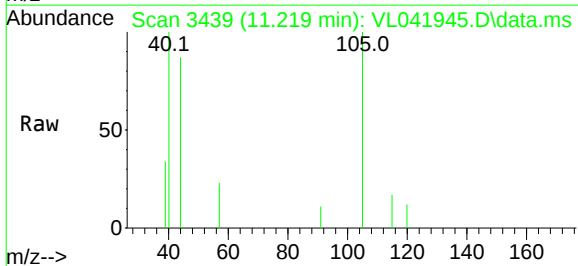
VL0127ABL01

Tgt Ion:105 Resp: 301

Ion Ratio Lower Upper

105 100

120 0.0 35.4 53.2#



#74

1,2,4-Trimethylbenzene

Concen: 0.009 ppbv

RT: 11.545 min Scan# 3540

Delta R.T. -0.003 min

Lab File: VL041945.D

Acq: 27 Jan 2025 10:47

Tgt Ion:105 Resp: 430

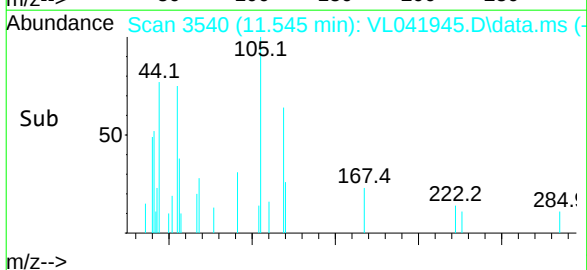
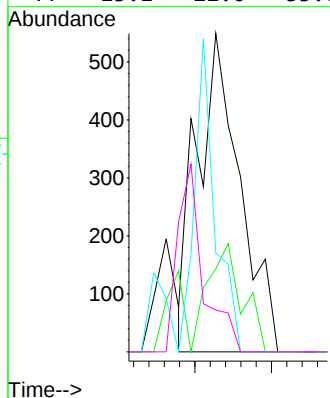
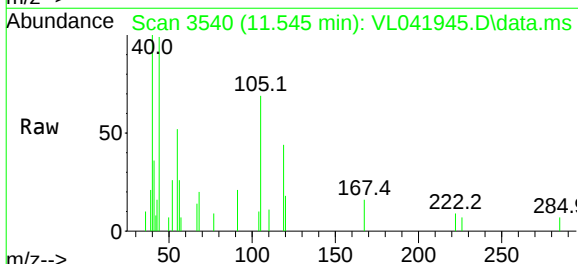
Ion Ratio Lower Upper

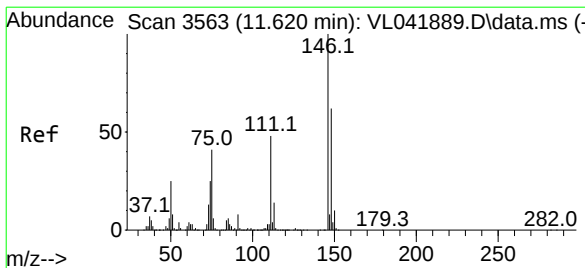
105 100

120 26.0 41.4 62.2#

91 31.1 60.2 90.2#

77 13.1 22.0 33.0#





#75

1,3-Dichlorobenzene

Concen: 0.003 ppbv

RT: 11.610 min Scan# 3560

Delta R.T. -0.010 min

Lab File: VL041945.D

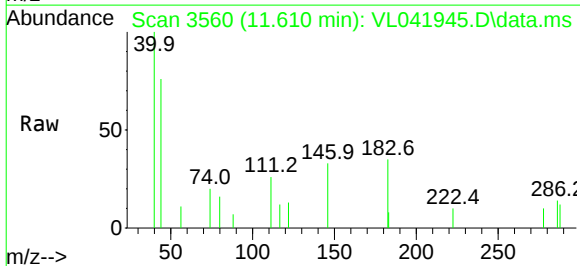
Acq: 27 Jan 2025 10:47

Instrument :

MSVOA_L

ClientSampleId :

VL0127ABL01



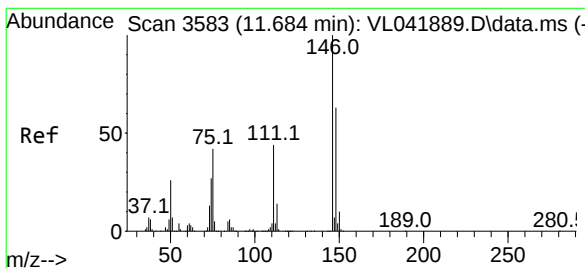
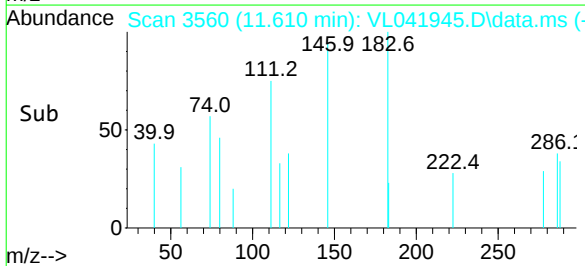
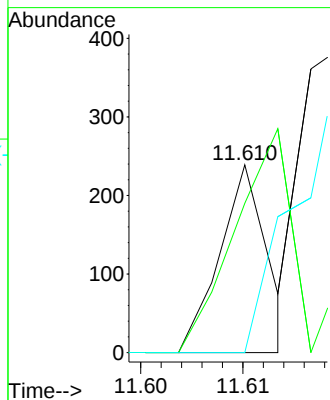
Tgt Ion:146 Resp: 78

Ion Ratio Lower Upper

146 100

111 0.0 23.6 70.8#

148 0.0 31.4 94.0#



#76

1,4-Dichlorobenzene

Concen: 0.004 ppbv

RT: 11.678 min Scan# 3581

Delta R.T. -0.006 min

Lab File: VL041945.D

Acq: 27 Jan 2025 10:47

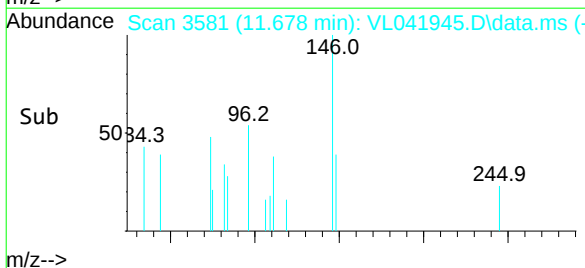
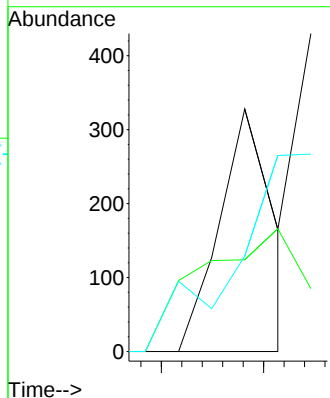
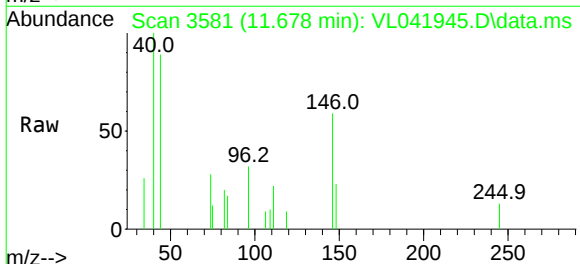
Tgt Ion:146 Resp: 120

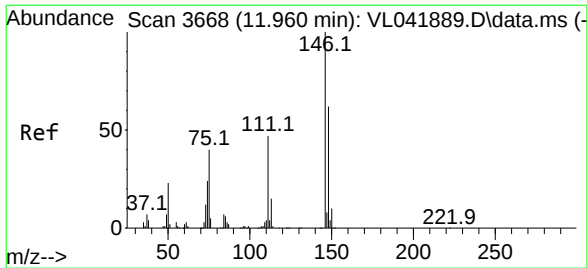
Ion Ratio Lower Upper

146 100

111 0.0 22.4 67.0#

148 0.0 31.9 95.5#





#77

1,2-Dichlorobenzene

Concen: 0.008 ppbv

RT: 11.966 min Scan# 3668

Delta R.T. 0.007 min

Lab File: VL041945.D

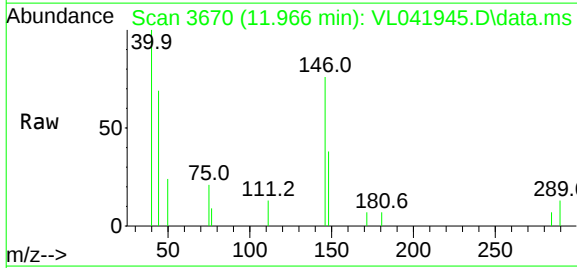
Acq: 27 Jan 2025 10:47

Instrument :

MSVOA_L

ClientSampleId :

VL0127ABL01



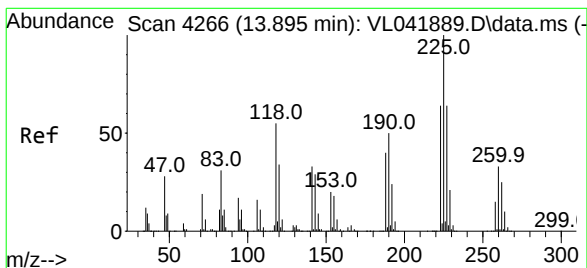
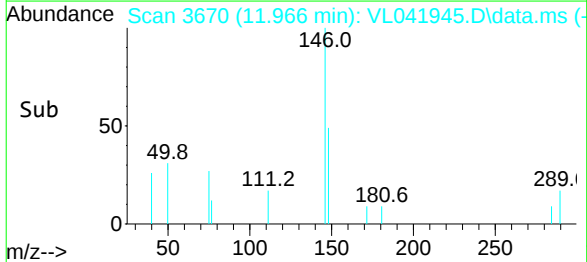
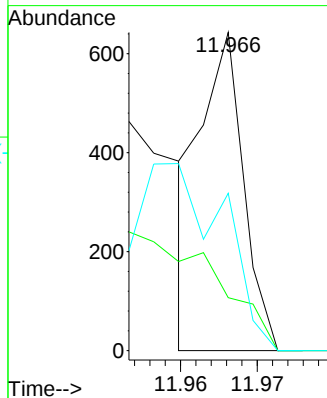
Tgt Ion:146 Resp: 246

Ion Ratio Lower Upper

146 100

111 0.0 24.2 72.6#

148 152.8 31.7 95.1#



#78

Hexachloro-1,3-Butadiene

Concen: 0.014 ppbv

RT: 13.889 min Scan# 4264

Delta R.T. -0.006 min

Lab File: VL041945.D

Acq: 27 Jan 2025 10:47

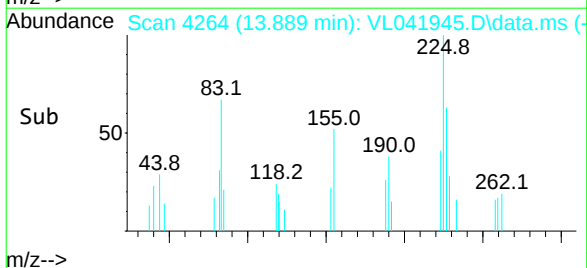
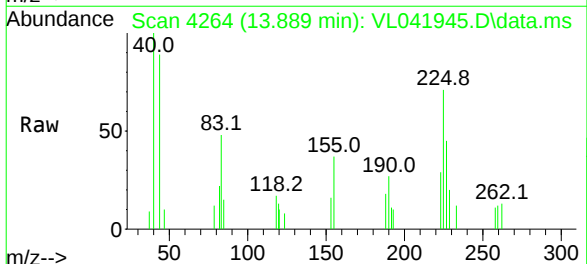
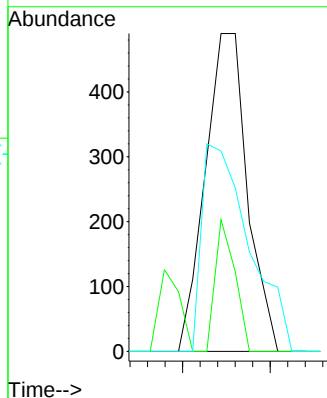
Tgt Ion:225 Resp: 327

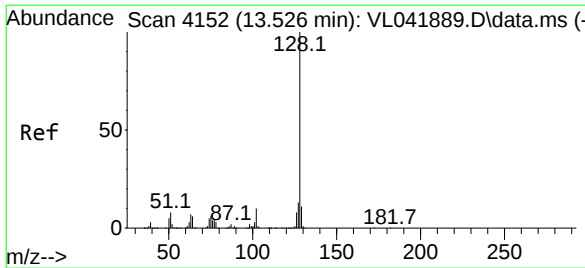
Ion Ratio Lower Upper

225 100

223 32.4 50.8 76.2#

227 73.7 50.3 75.5





#79

Naphthalene

Concen: 0.019 ppbv

RT: 13.526 min Scan# 4152

Delta R.T. 0.000 min

Lab File: VL041945.D

Acq: 27 Jan 2025 10:47

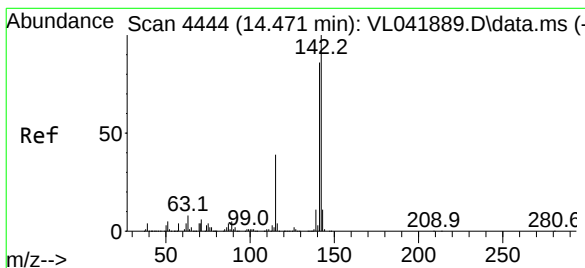
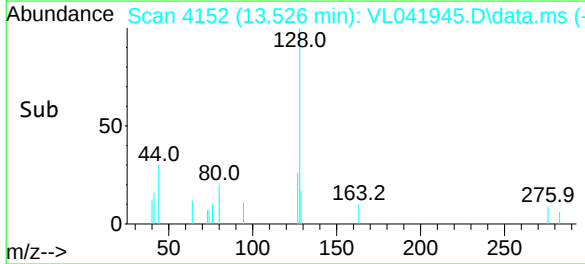
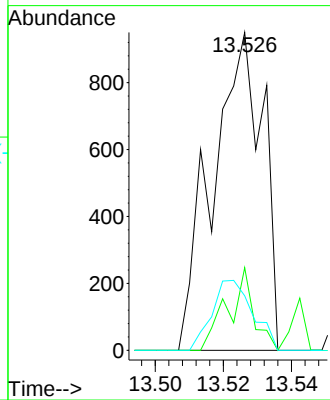
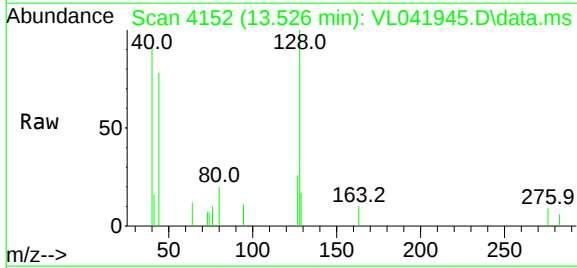
Instrument :

MSVOA_L

ClientSampleId :

VL0127ABL01

Tgt Ion:	128	Resp:	972
Ion	Ratio	Lower	Upper
128	100		
127	22.2	10.2	15.4#
129	14.6	9.1	13.7#



#80

Naphthalene, 2-methyl-

Concen: 0.027 ppbv

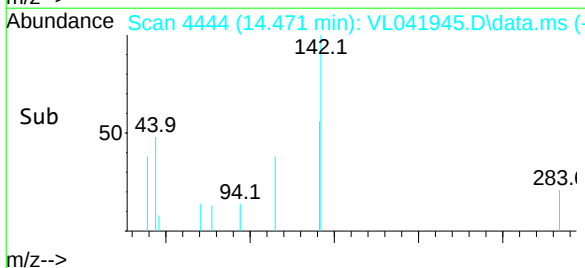
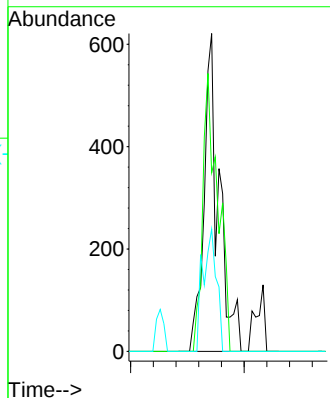
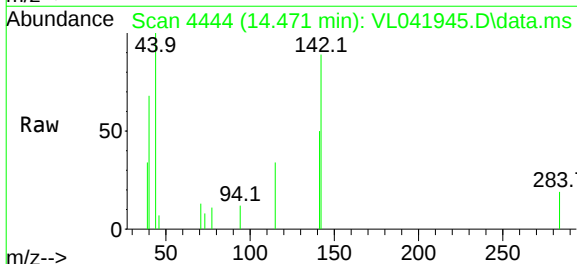
RT: 14.471 min Scan# 4444

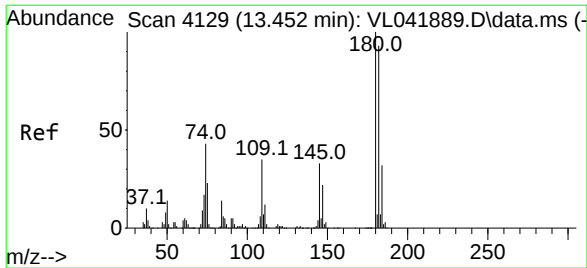
Delta R.T. 0.000 min

Lab File: VL041945.D

Acq: 27 Jan 2025 10:47

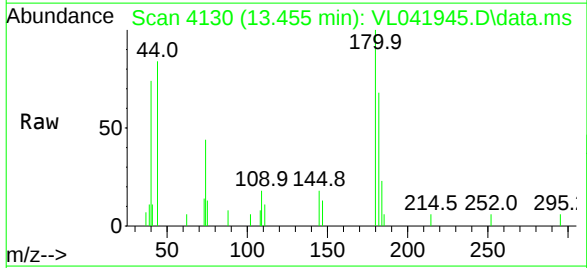
Tgt Ion:	142	Resp:	632
Ion	Ratio	Lower	Upper
142	100		
141	79.6	68.1	102.1
115	31.5	31.7	47.5#





#81
 1,2,4-Trichlorobenzene
 Concen: 0.015 ppbv
 RT: 13.455 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL041945.D
 Acq: 27 Jan 2025 10:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0127ABL01



Tgt Ion:	180	Resp:	368
Ion	Ratio	Lower	Upper
180	100		
182	0.0	77.0	115.6#
184	50.5	24.9	37.3#

