

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041893.D
 Acq On : 14 Jan 2025 15:01
 Operator : SY/MD
 Sample : VSTDIC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 14 21:21:17 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 16:31:18 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	143362	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	425675	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	372545	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	292283	9.961	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	2321	0.119	ppbv	94
3) Chlorodifluoromethane	1.479	51	2516	0.123	ppbv	95
4) Chloromethane	1.538	50	914	0.124	ppbv #	84
5) Vinyl Chloride	1.583	62	828	0.111	ppbv	96
6) Bromomethane	1.670	94	684	0.193	ppbv	93
7) Chloroethane	1.706	64	205	0.071	ppbv #	48
8) Dichlorotetrafluoroethane	1.557	85	1728	0.101	ppbv	89
9) Propene	1.486	41	1326	0.157	ppbv	96
10) Heptane	4.994	43	1169	0.052	ppbv #	27
11) Trichlorofluoromethane	1.884	101	2252	0.111	ppbv	85
12) 1,1,2-Trichlorotrifluo...	2.143	101	1261	0.079	ppbv #	66
13) Ethanol	1.722	45	100	0.162	ppbv #	1
14) Bromoethene	1.784	108	665	0.114	ppbv #	68
15) Acetone	1.842	43	2996	0.174	ppbv #	86
16) 1,3-Butadiene	1.612	39	964	0.125	ppbv #	76
17) tert-Butyl alcohol	2.049	59	2293	0.108	ppbv #	84
18) 1,1-Dichloroethene	2.039	96	806	0.112	ppbv	95
19) Isopropyl Alcohol	1.890	45	2149	0.210	ppbv #	32
20) Methylene Chloride	2.065	84	1586	0.233	ppbv	93
21) Allyl Chloride	2.101	41	1776	0.149	ppbv #	67
22) trans-1,2-Dichloroethene	2.725	96	1253	0.155	ppbv	87
23) Vinyl Acetate	2.473	43	504	0.067	ppbv #	49
24) 1,1-Dichloroethane	2.418	63	1763	0.113	ppbv #	88
26) Hexane	2.832	57	1917	0.104	ppbv #	8
27) Carbon Disulfide	2.156	76	1864	0.103	ppbv #	1
28) Methyl tert-Butyl Ether	2.450	73	1702	0.121	ppbv	93
29) Chloroform	2.852	83	2170	0.075	ppbv	93
30) Cyclohexane	3.871	84	741	0.047	ppbv #	1
31) cis-1,2-Dichloroethene	2.732	61	2026	0.105	ppbv #	81
32) 1,1,1-Trichloroethane	3.373	97	1597	0.057	ppbv #	23
34) 2-Butanone	2.570	43	3002	0.111	ppbv	97
36) Benzene	3.664	78	4333	0.111	ppbv #	83
37) 1,2-Dichloroethane	3.230	62	2356	0.107	ppbv	99
39) 1,2-Dichloropropane	3.972	63	102706	7.499	ppbv #	23
40) 1,4-Dioxane	4.629	88	277	0.040	ppbv #	1
41) Tetrahydrofuran	3.082	42	1571	0.106	ppbv	94
42) Bromodichloromethane	4.506	83	1561	0.053	ppbv #	74
43) Methyl Methacrylate	4.897	69	877	0.060	ppbv #	1
44) 2,2,4-Trimethylpentane	4.655	57	4994	0.079	ppbv #	61
47) 1,1,2-Trichloroethane	6.587	97	694	0.048	ppbv #	30
48) Dibromochloromethane	7.399	129	1237	0.055	ppbv #	10
49) Bromoform	9.484	173	604	0.033	ppbv #	27
53) Toluene	6.946	91	3901	0.092	ppbv	85

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041893.D
 Acq On : 14 Jan 2025 15:01
 Operator : SY/MD
 Sample : VSTDIC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 14 21:21:17 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 16:31:18 2025
 Response via : Initial Calibration

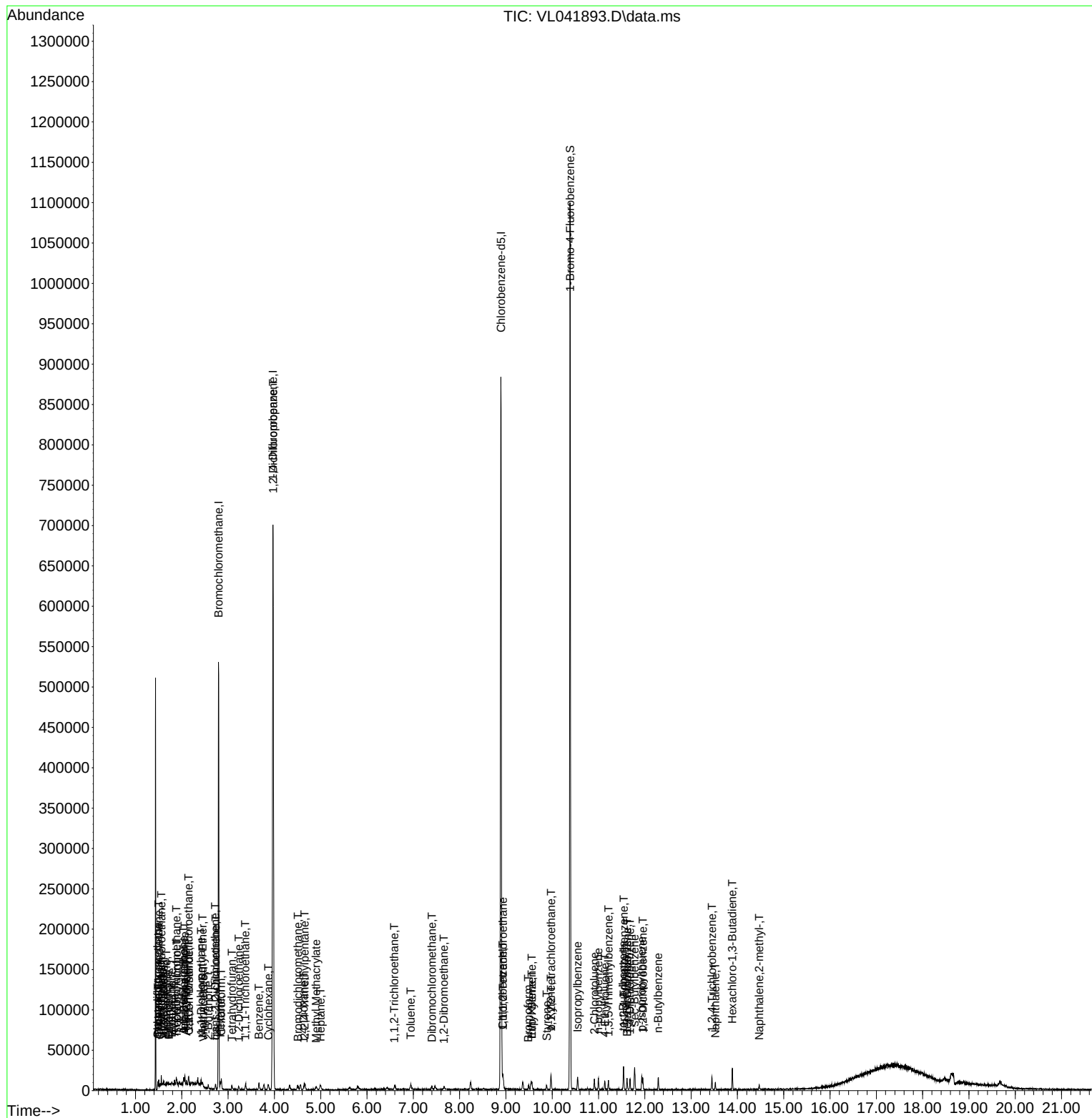
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
54) 1,2-Dibromoethane	7.658	107	599	0.030	ppbv	#	63
56) 1,1,1,2-Tetrachloroethane	8.937	131	1008	0.054	ppbv	#	1
57) Chlorobenzene	8.930	112	3668	0.107	ppbv	#	90
58) Ethyl Benzene	9.558	91	3385	0.058	ppbv		99
59) m/p-Xylene	9.558	91	3385	0.072	ppbv	#	18
60) o-Xylene	9.972	91	3951	0.085	ppbv		87
61) Styrene	9.882	104	1008	0.049	ppbv	#	27
62) Isopropylbenzene	10.548	105	6701	0.093	ppbv		97
63) 1,1,2,2-Tetrachloroethane	9.976	83	2816	0.097	ppbv		95
64) n-propylbenzene	10.998	120	1416	0.078	ppbv		97
65) tert-Butylbenzene	11.532	119	2265	0.035	ppbv	#	1
66) Benzyl Chloride	11.620	91	147	0.036	ppbv	#	66
67) sec-Butylbenzene	11.775	105	6920	0.077	ppbv	#	86
69) p-Isopropyltoluene	11.934	119	5480	0.074	ppbv		95
70) n-Butylbenzene	12.290	91	5297	0.072	ppbv		96
71) 2-Chlorotoluene	10.911	91	4562	0.086	ppbv		93
72) 4-Ethyltoluene	11.138	105	4547	0.082	ppbv	#	95
73) 1,3,5-Trimethylbenzene	11.215	105	3547	0.072	ppbv		92
74) 1,2,4-Trimethylbenzene	11.545	105	4062	0.077	ppbv		92
75) 1,3-Dichlorobenzene	11.617	146	3258	0.104	ppbv		94
76) 1,4-Dichlorobenzene	11.681	146	3041	0.099	ppbv		93
77) 1,2-Dichlorobenzene	11.956	146	3282	0.105	ppbv		92
78) Hexachloro-1,3-Butadiene	13.889	225	2686	0.105	ppbv		96
79) Naphthalene	13.520	128	3643	0.068	ppbv	#	96
80) Naphthalene,2-methyl-	14.471	142	1617	0.064	ppbv		95
81) 1,2,4-Trichlorobenzene	13.448	180	2545	0.098	ppbv	#	88

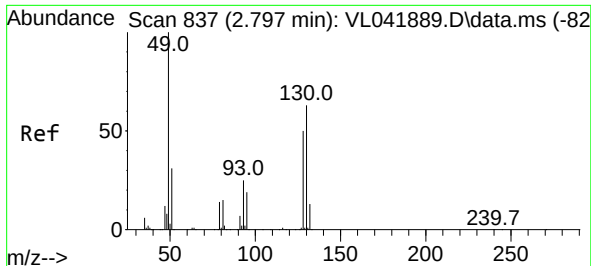
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041893.D
Acq On : 14 Jan 2025 15:01
Operator : SY/MD
Sample : VSTDIC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Jan 14 21:21:17 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 16:31:18 2025
Response via : Initial Calibration

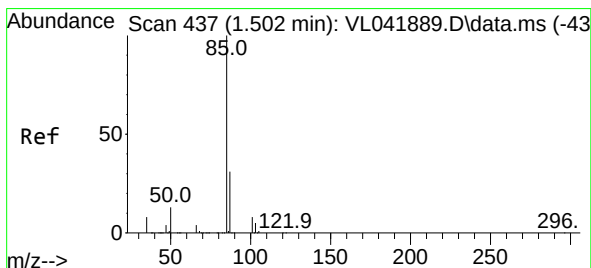
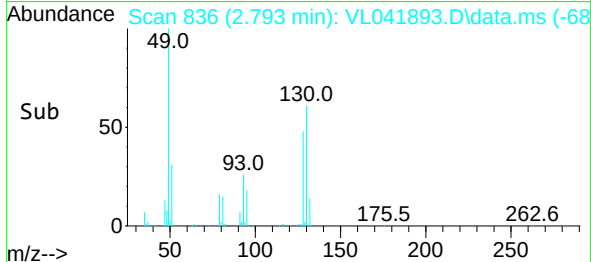
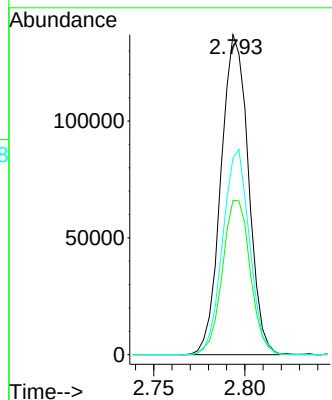
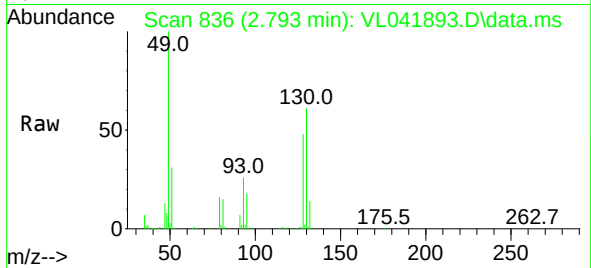




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. -0.004 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

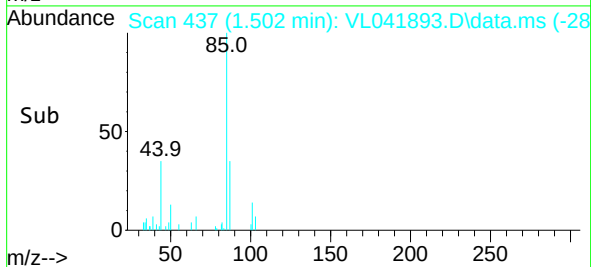
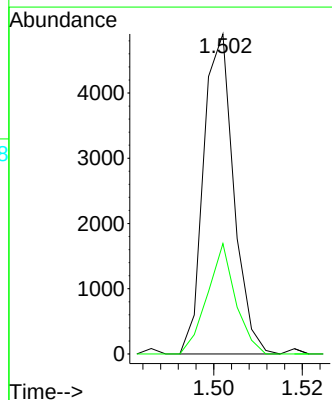
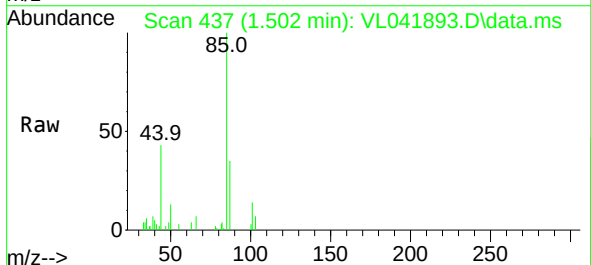
Instrument :
MSVOA_L
ClientSampleId :

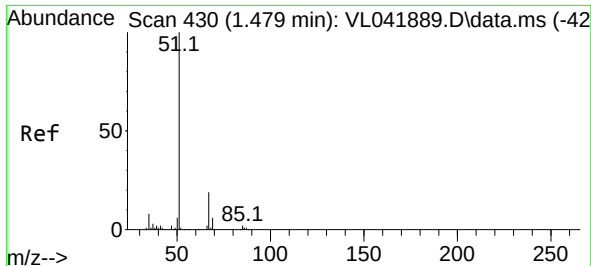
Tgt Ion: 49 Resp: 143362
Ion Ratio Lower Upper
49 100
128 49.1 24.3 73.0
130 62.7 31.1 93.2



#2
Dichlorodifluoromethane
Concen: 0.119 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.000 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

Tgt Ion: 85 Resp: 2321
Ion Ratio Lower Upper
85 100
87 34.5 24.9 37.3

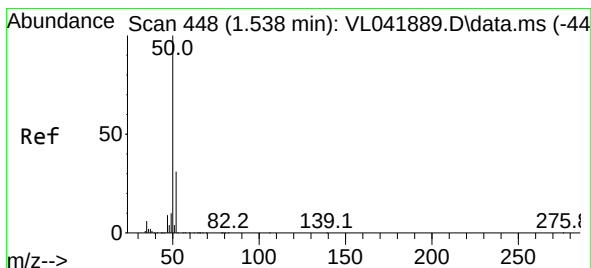
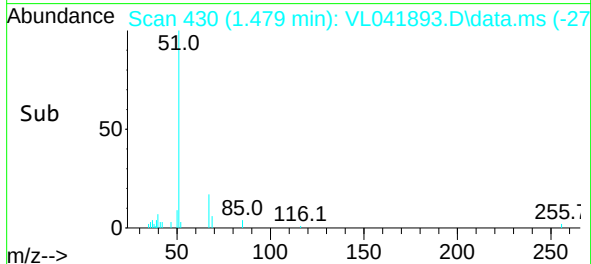
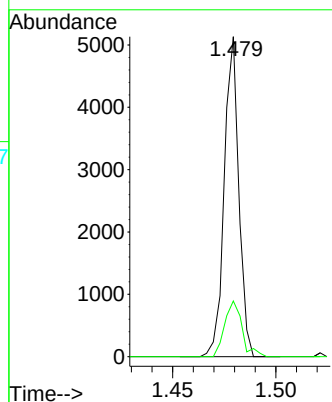
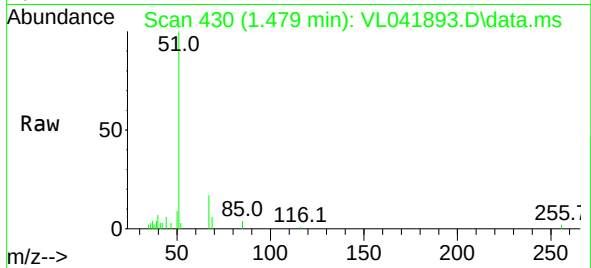




#3
Chlorodifluoromethane
Concen: 0.123 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

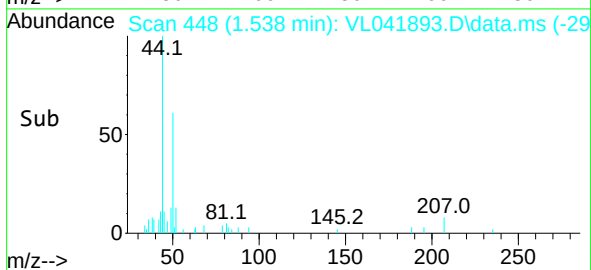
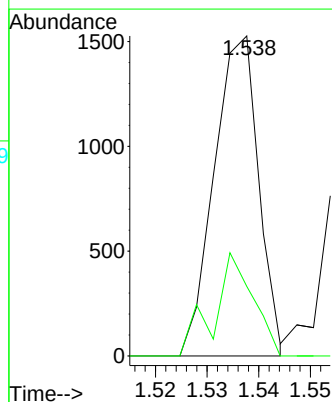
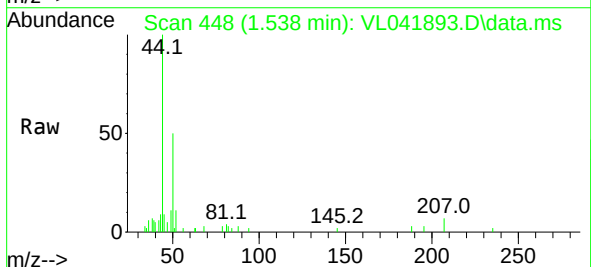
Instrument :
MSVOA_L
ClientSampleId :

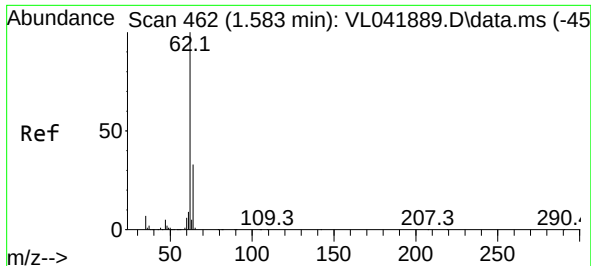
Tgt Ion: 51 Resp: 2516
Ion Ratio Lower Upper
51 100
67 20.7 15.0 22.4



#4
Chloromethane
Concen: 0.124 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.000 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

Tgt Ion: 50 Resp: 914
Ion Ratio Lower Upper
50 100
52 21.7 24.6 36.8#

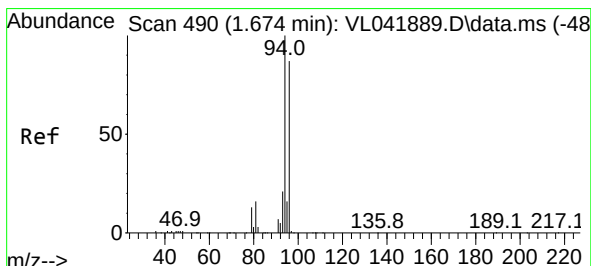
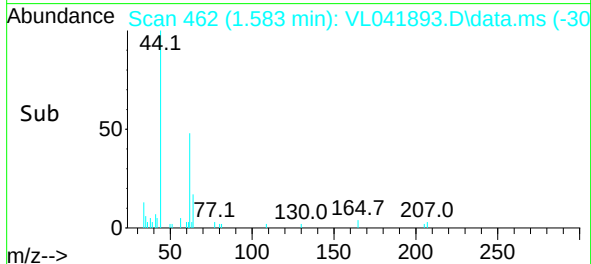
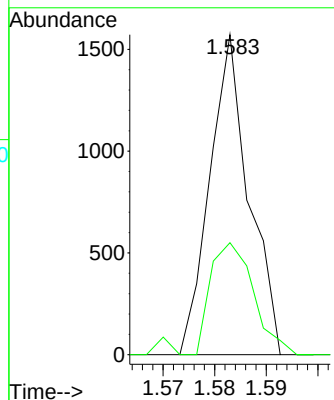
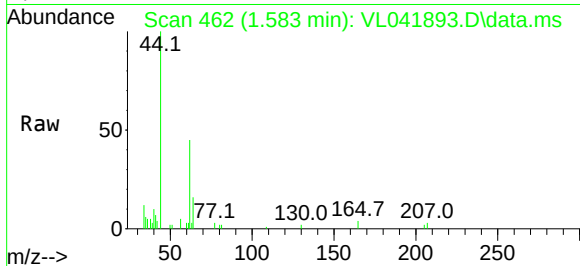




#5
 Vinyl Chloride
 Concen: 0.111 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.000 min
 Lab File: VL041893.D
 Acq: 14 Jan 2025 15:01

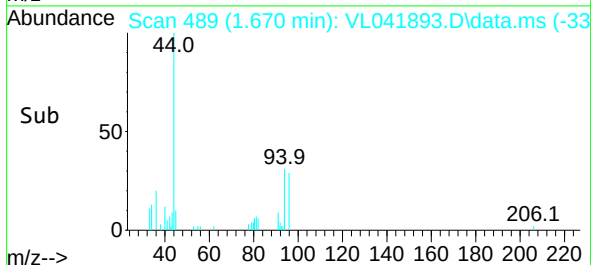
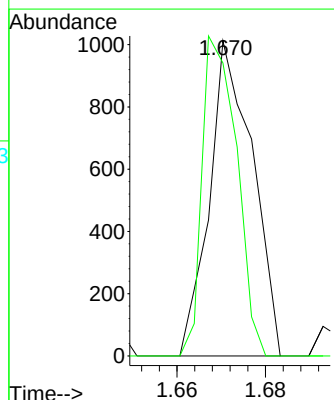
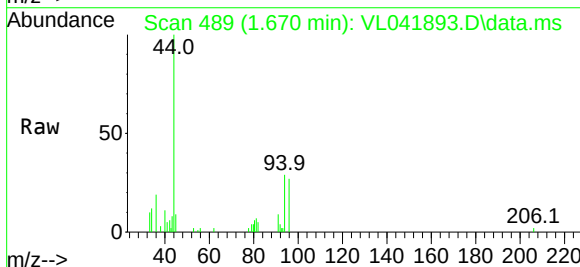
Instrument :
 MSVOA_1
 ClientSampleId :

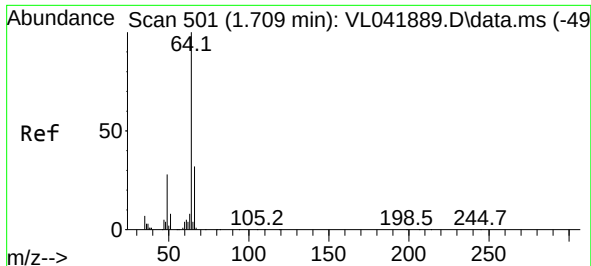
Tgt Ion: 62 Resp: 828
 Ion Ratio Lower Upper
 62 100
 64 35.0 26.1 39.1



#6
 Bromomethane
 Concen: 0.193 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. -0.003 min
 Lab File: VL041893.D
 Acq: 14 Jan 2025 15:01

Tgt Ion: 94 Resp: 684
 Ion Ratio Lower Upper
 94 100
 96 93.0 69.5 104.3

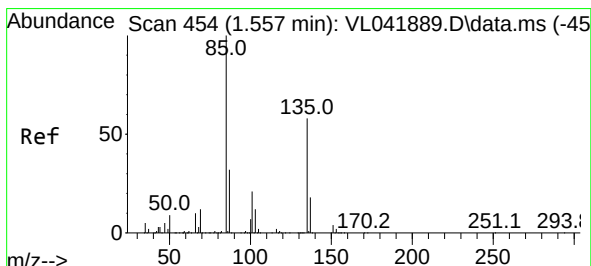
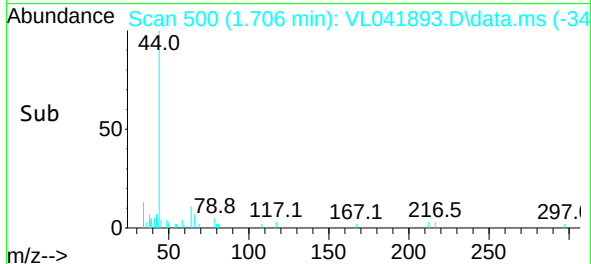
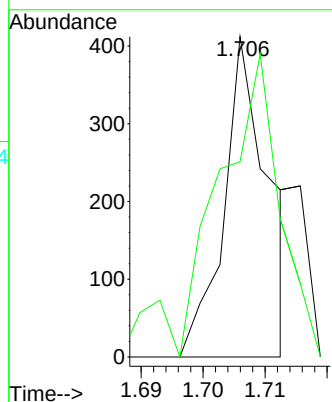
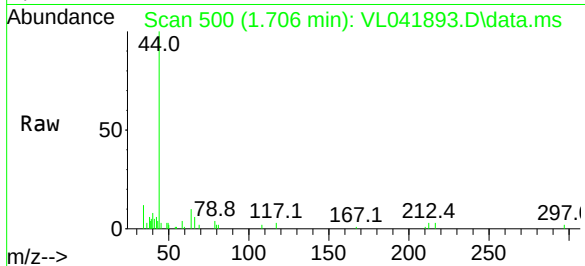




#7
Chloroethane
Concen: 0.071 ppbv
RT: 1.706 min Scan# 501
Delta R.T. -0.003 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

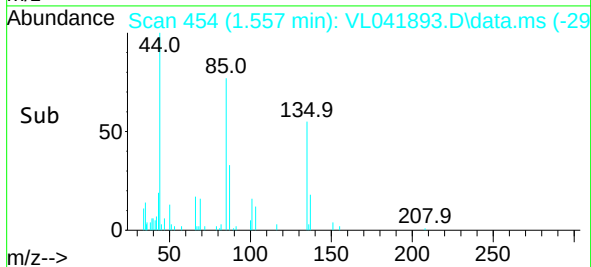
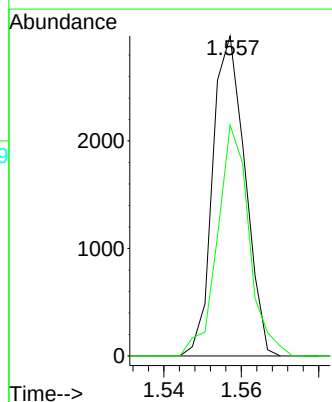
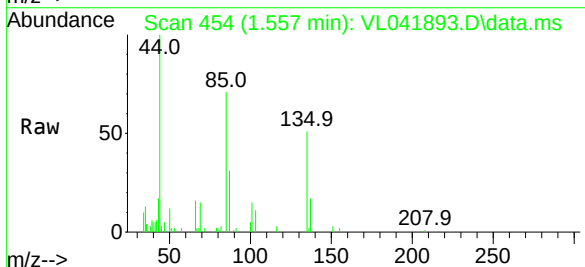
Instrument :
MSVOA_L
ClientSampleId :

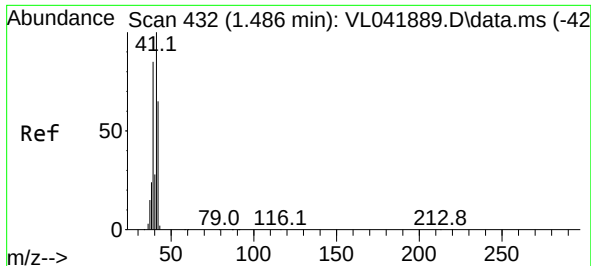
Tgt Ion: 64 Resp: 205
Ion Ratio Lower Upper
64 100
66 60.9 25.7 38.5#



#8
Dichlorotetrafluoroethane
Concen: 0.101 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.000 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

Tgt Ion: 85 Resp: 1728
Ion Ratio Lower Upper
85 100
135 70.7 50.0 75.0

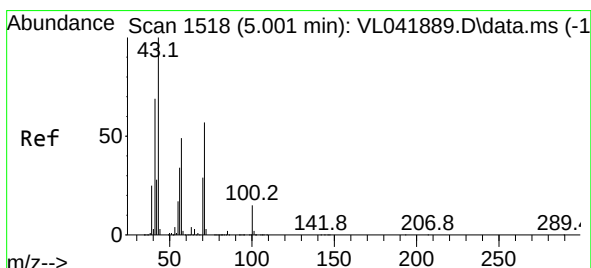
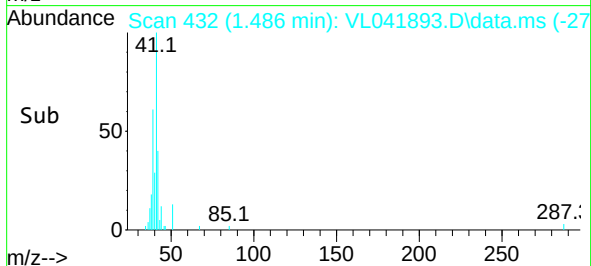
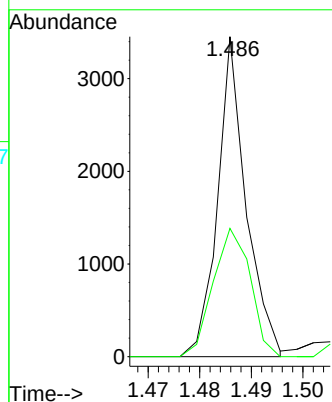
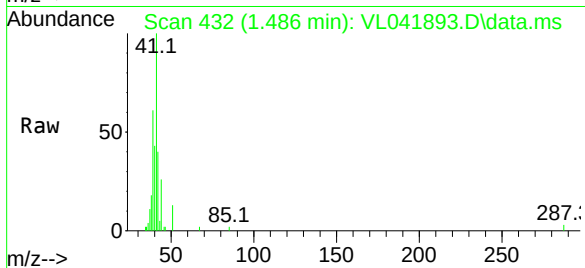




#9
Propene
Concen: 0.157 ppbv
RT: 1.486 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

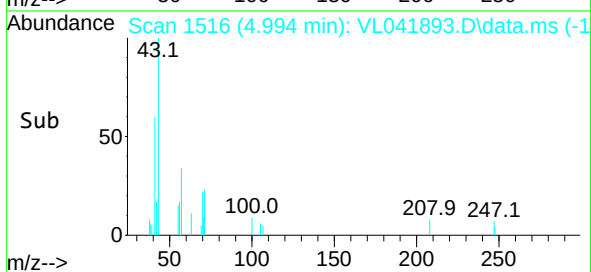
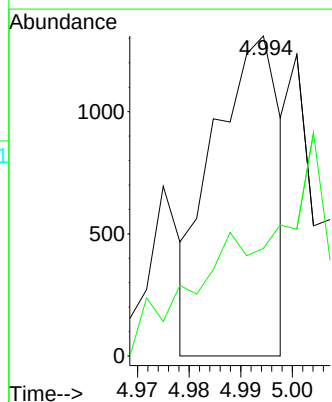
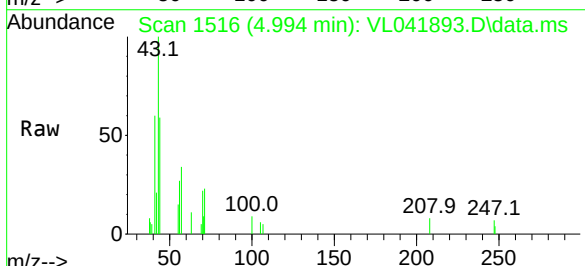
Instrument :
MSVOA_L
ClientSampleId :

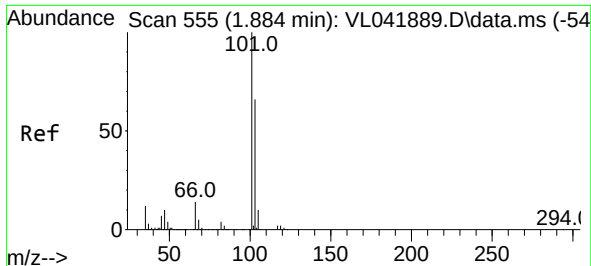
Tgt Ion: 41 Resp: 1326
Ion Ratio Lower Upper
41 100
42 62.1 52.0 78.0



#10
Heptane
Concen: 0.052 ppbv
RT: 4.994 min Scan# 1516
Delta R.T. -0.006 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

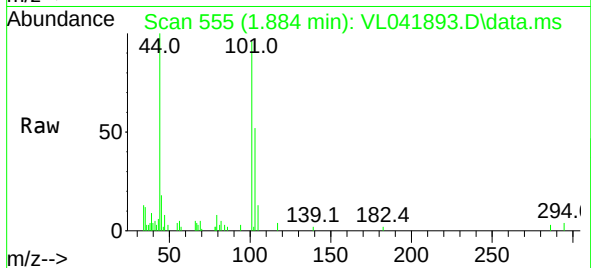
Tgt Ion: 43 Resp: 1169
Ion Ratio Lower Upper
43 100
57 0.0 41.0 61.4#



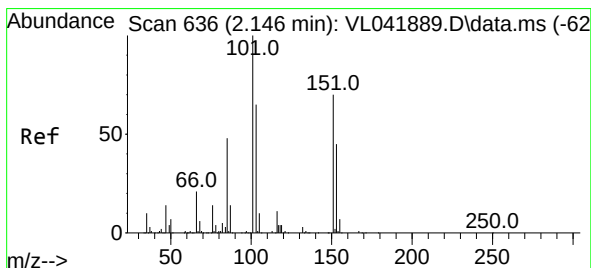
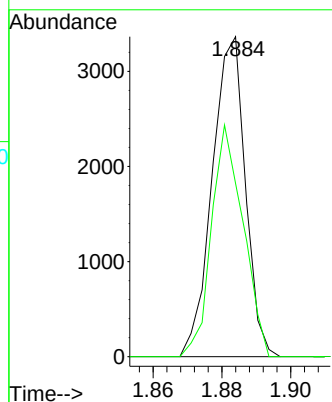
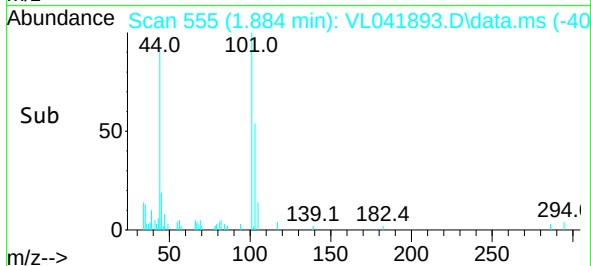


#11
 Trichlorofluoromethane
 Concen: 0.111 ppbv
 RT: 1.884 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL041893.D
 Acq: 14 Jan 2025 15:01

Instrument :
 MSVOA_L
 ClientSampleId :

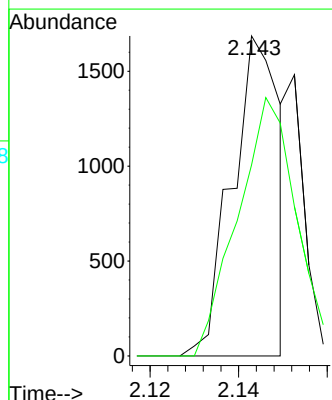
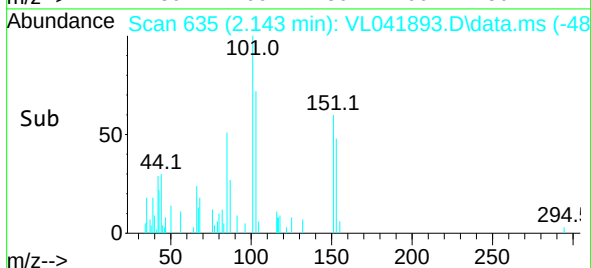
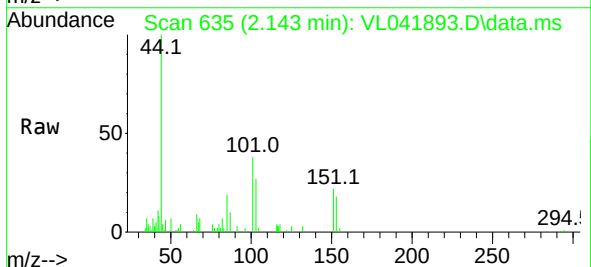


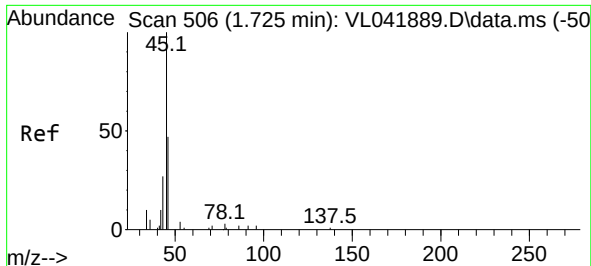
Tgt Ion:101 Resp: 2252
 Ion Ratio Lower Upper
 101 100
 103 54.1 53.1 79.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.079 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. -0.003 min
 Lab File: VL041893.D
 Acq: 14 Jan 2025 15:01

Tgt Ion:101 Resp: 1261
 Ion Ratio Lower Upper
 101 100
 151 98.4 56.1 84.1#

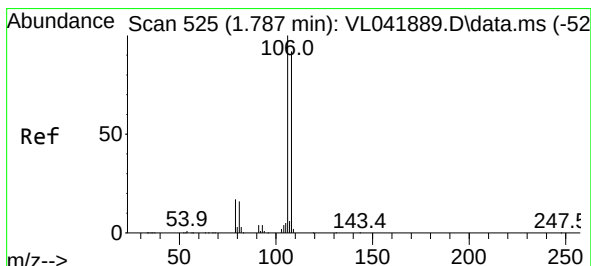
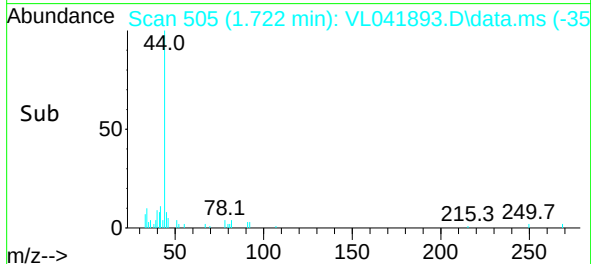
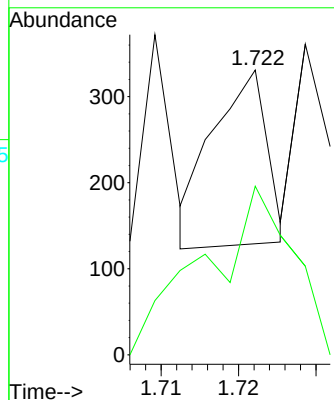
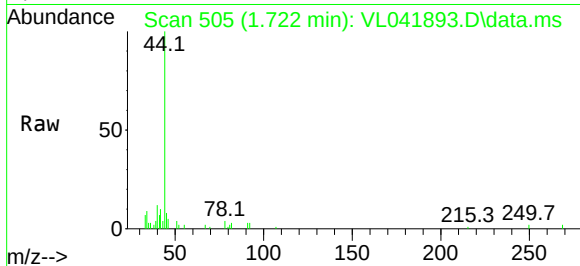




#13
Ethanol
Concen: 0.162 ppbv
RT: 1.722 min Scan# 50
Delta R.T. -0.003 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

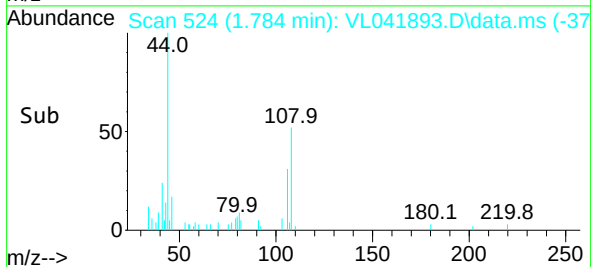
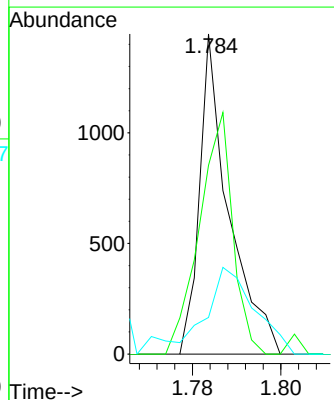
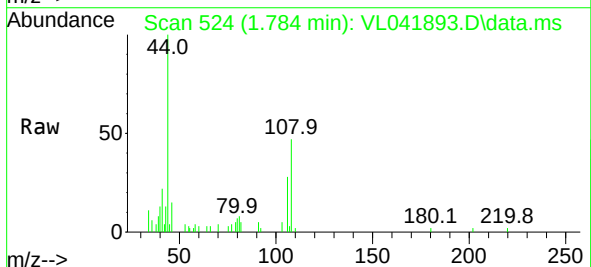
Instrument :
MSVOA_L
ClientSampleId :

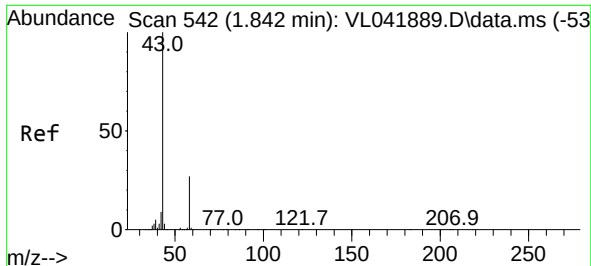
Tgt Ion: 45 Resp: 100
Ion Ratio Lower Upper
45 100
46 155.0 18.1 72.5#



#14
Bromoethene
Concen: 0.114 ppbv
RT: 1.784 min Scan# 524
Delta R.T. -0.003 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

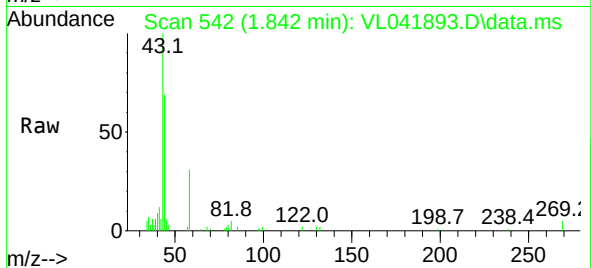
Tgt Ion: 108 Resp: 665
Ion Ratio Lower Upper
108 100
106 88.4 85.5 128.3
79 69.6 15.3 22.9#



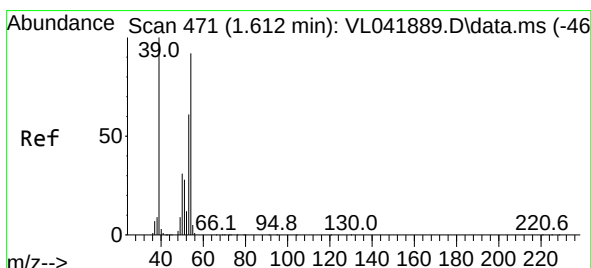
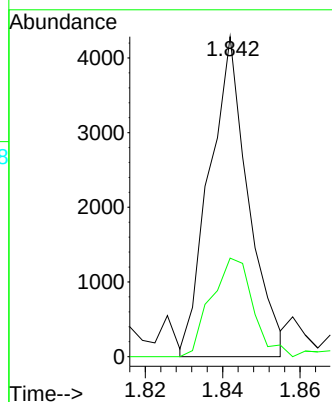
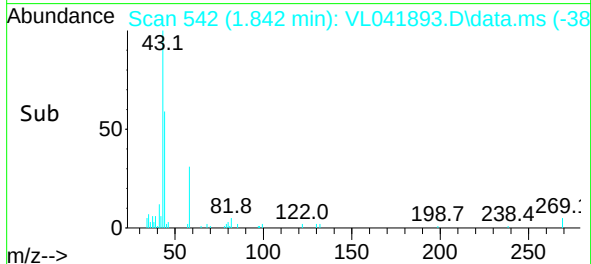


#15
Acetone
Concen: 0.174 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

Instrument :
MSVOA_L
ClientSampleId :

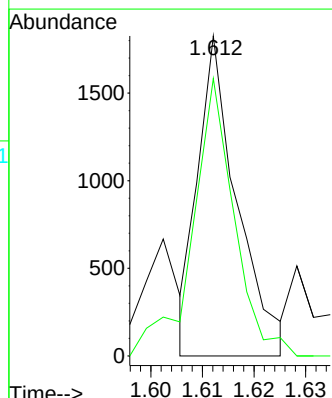
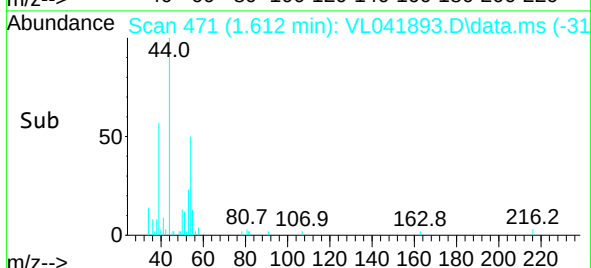
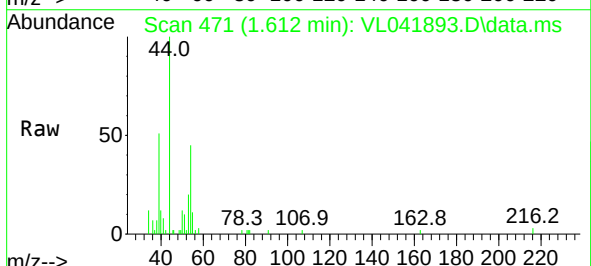


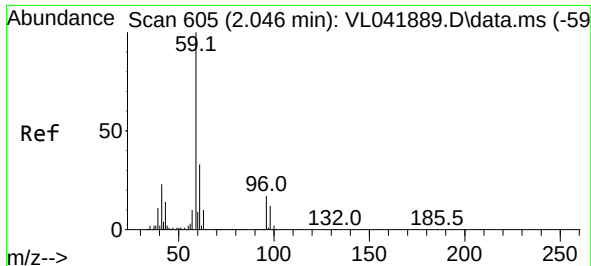
Tgt Ion: 43 Resp: 2996
Ion Ratio Lower Upper
43 100
58 34.9 21.9 32.9#



#16
1,3-Butadiene
Concen: 0.125 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

Tgt Ion: 39 Resp: 964
Ion Ratio Lower Upper
39 100
54 97.7 61.6 92.4#





#17

tert-Butyl alcohol

Concen: 0.108 ppbv

RT: 2.049 min Scan# 605

Delta R.T. 0.003 min

Lab File: VL041893.D

Acq: 14 Jan 2025 15:01

Instrument :

MSVOA_L

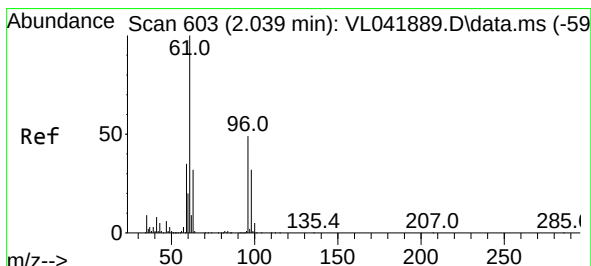
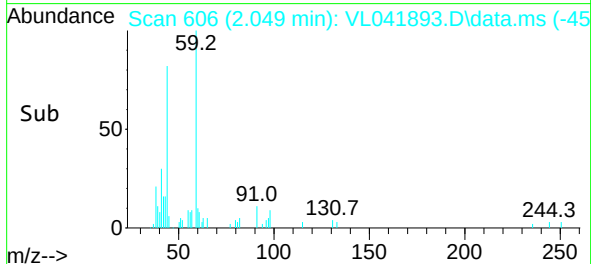
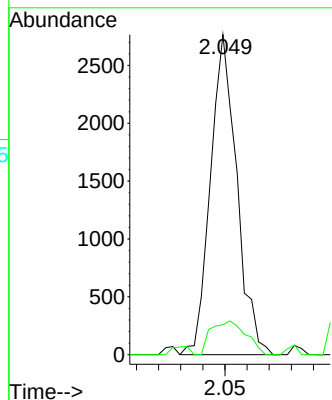
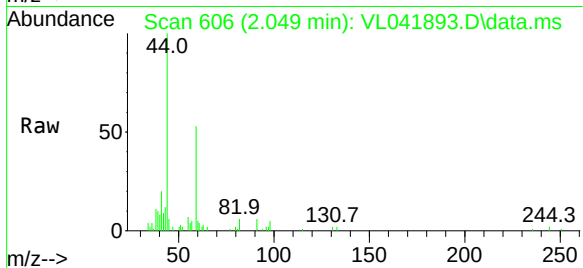
ClientSampleId :

Tgt Ion: 59 Resp: 2293

Ion Ratio Lower Upper

59 100

57 15.6 7.8 11.8#



#18

1,1-Dichloroethene

Concen: 0.112 ppbv

RT: 2.039 min Scan# 603

Delta R.T. 0.000 min

Lab File: VL041893.D

Acq: 14 Jan 2025 15:01

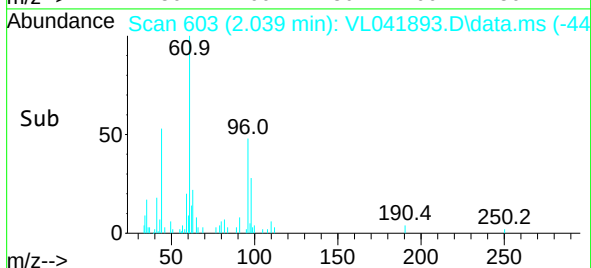
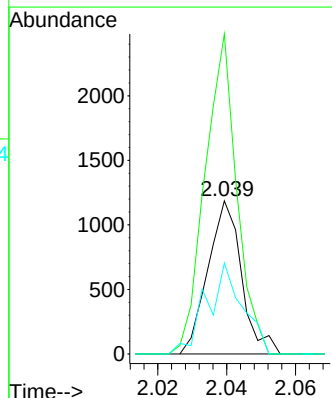
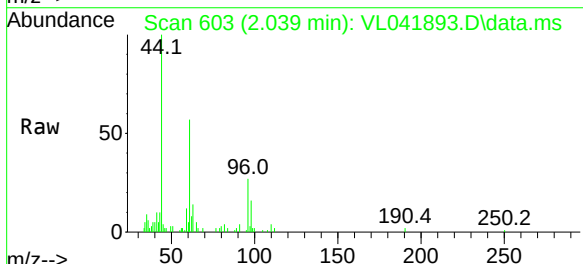
Tgt Ion: 96 Resp: 806

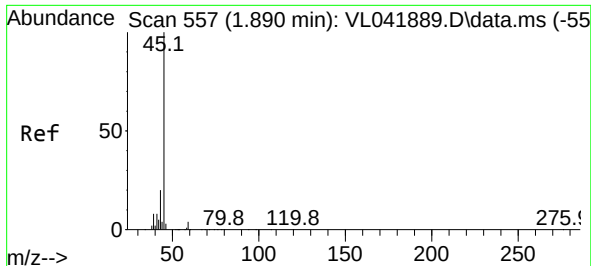
Ion Ratio Lower Upper

96 100

61 209.0 163.1 244.7

98 59.4 52.7 79.1

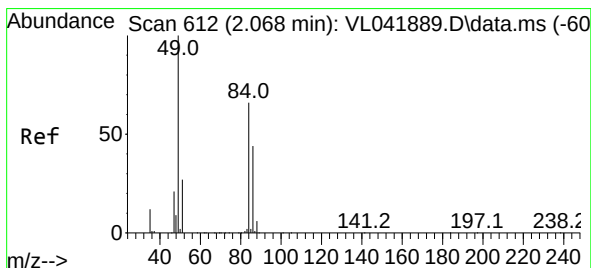
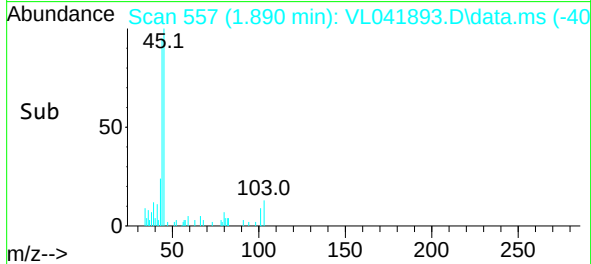
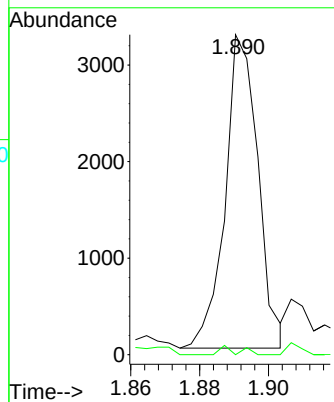
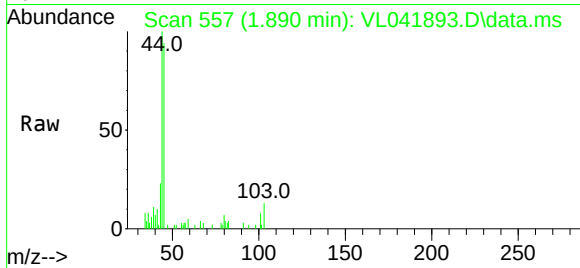




#19
Isopropyl Alcohol
Concen: 0.210 ppbv
RT: 1.890 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

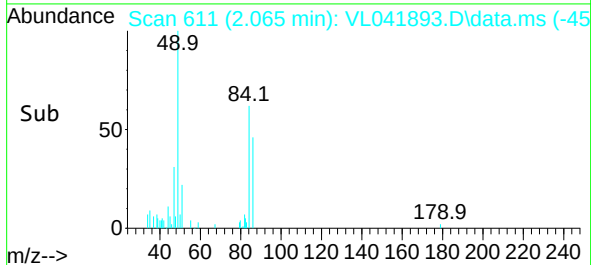
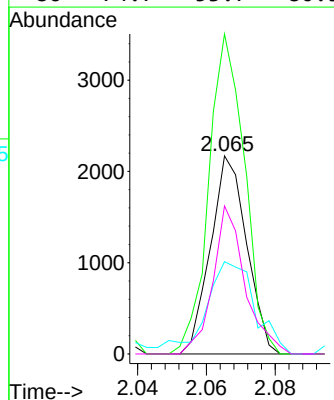
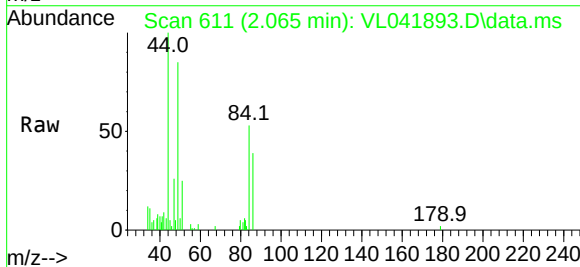
Instrument :
MSVOA_L
ClientSampleId :

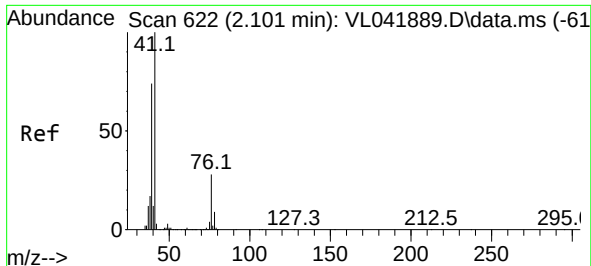
Tgt Ion: 45 Resp: 2149
Ion Ratio Lower Upper
45 100
58 0.0 35.0 52.6#



#20
Methylene Chloride
Concen: 0.233 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.003 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

Tgt Ion: 84 Resp: 1586
Ion Ratio Lower Upper
84 100
49 161.6 123.1 184.7
51 40.9 35.8 53.8
86 74.7 53.7 80.5

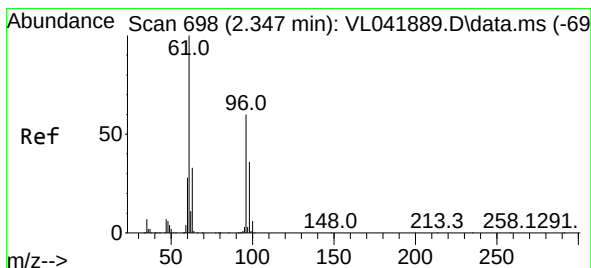
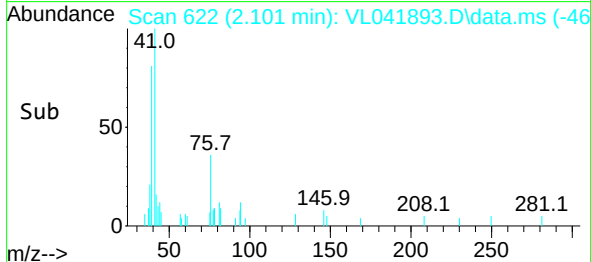
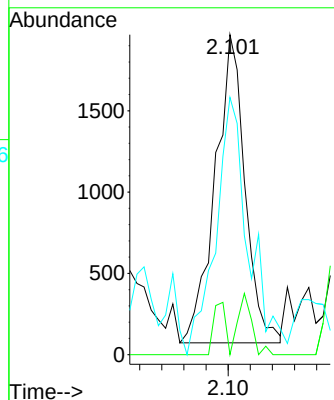
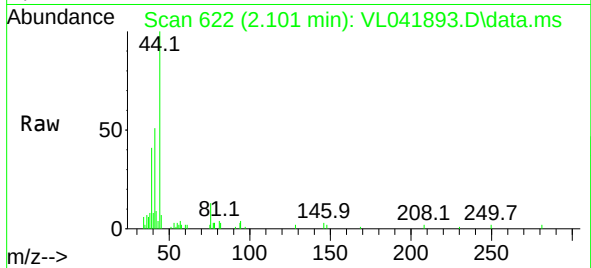




#21
 Allyl Chloride
 Concen: 0.149 ppbv
 RT: 2.101 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL041893.D
 Acq: 14 Jan 2025 15:01

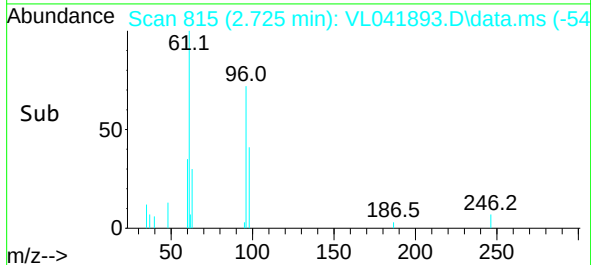
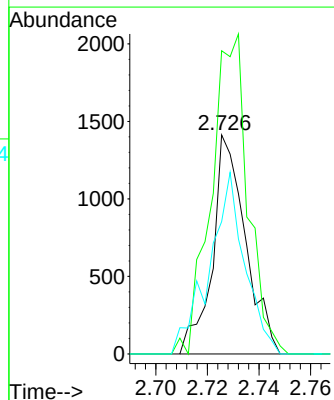
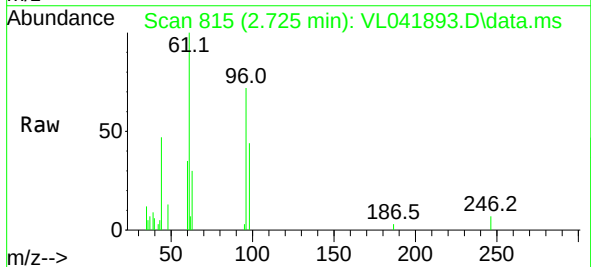
Instrument :
 MSVOA_L
 ClientSampleId :

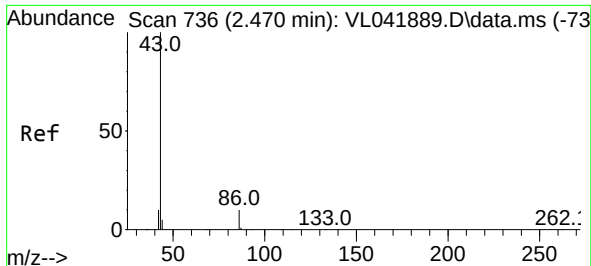
Tgt Ion: 41 Resp: 1776
 Ion Ratio Lower Upper
 41 100
 76 16.0 24.2 36.4#
 39 106.9 60.6 91.0#



#22
 trans-1,2-Dichloroethene
 Concen: 0.155 ppbv
 RT: 2.725 min Scan# 815
 Delta R.T. 0.379 min
 Lab File: VL041893.D
 Acq: 14 Jan 2025 15:01

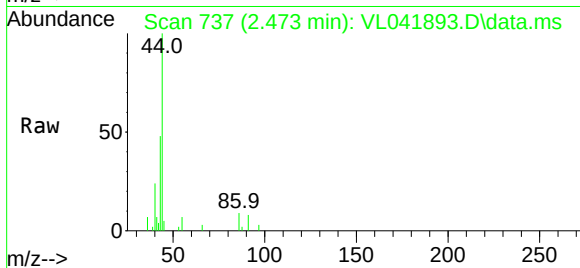
Tgt Ion: 96 Resp: 1253
 Ion Ratio Lower Upper
 96 100
 61 144.7 134.5 201.7
 98 60.4 48.9 73.3



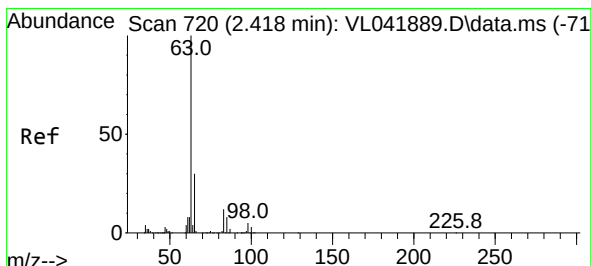
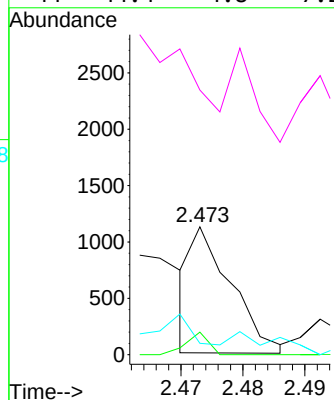
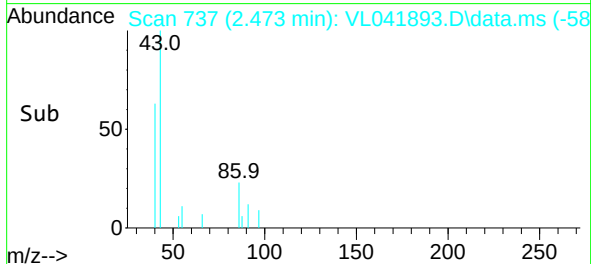


#23
 Vinyl Acetate
 Concen: 0.067 ppbv
 RT: 2.473 min Scan# 71
 Delta R.T. 0.003 min
 Lab File: VL041893.D
 Acq: 14 Jan 2025 15:01

Instrument :
 MSVOA_L
 ClientSampleId :

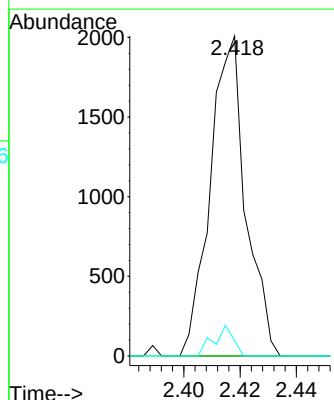
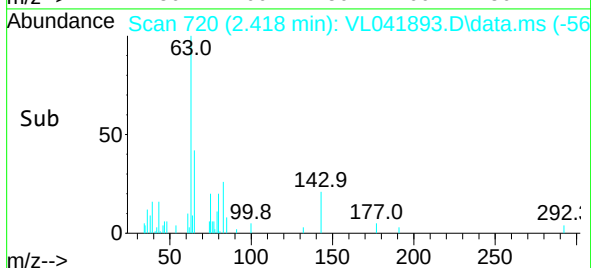
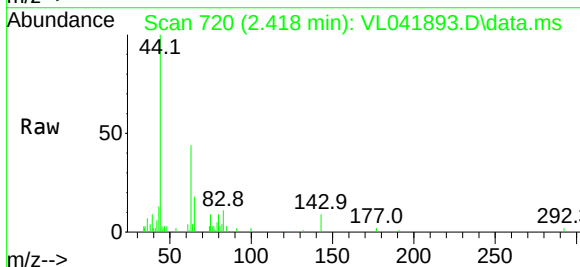


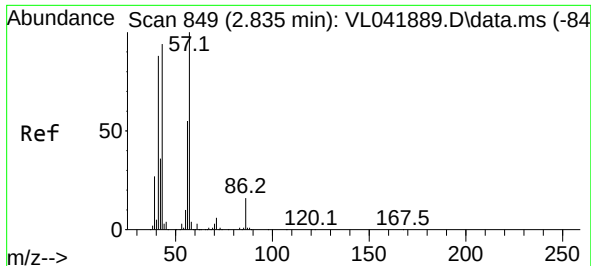
Tgt Ion: 43	Resp: 504
Ion Ratio	Lower Upper
43 100	
86 19.3	6.2 9.4#
42 0.0	8.5 12.7#
44 44.4	4.8 7.2#



#24
 1,1-Dichloroethane
 Concen: 0.113 ppbv
 RT: 2.418 min Scan# 720
 Delta R.T. 0.000 min
 Lab File: VL041893.D
 Acq: 14 Jan 2025 15:01

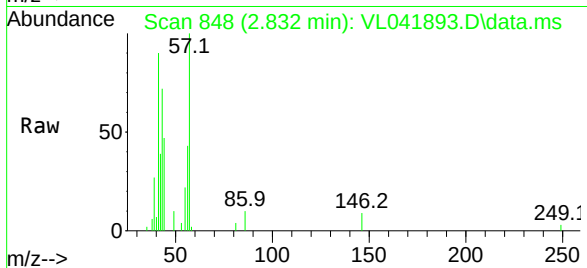
Tgt Ion: 63	Resp:	1763	
Ion Ratio	Lower	Upper	
63 100			
98 0.0	2.6	7.8#	
100 4.4	1.4	4.2#	





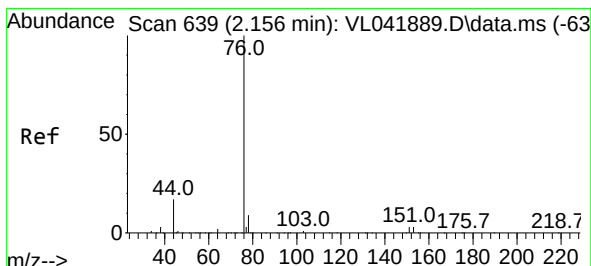
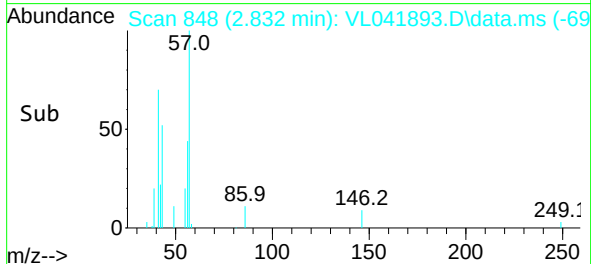
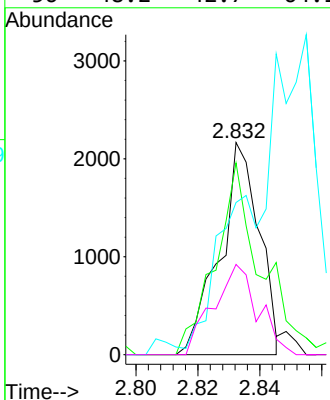
#26
Hexane
Concen: 0.104 ppbv
RT: 2.832 min Scan# 849
Delta R.T. -0.003 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 57 Resp: 1917

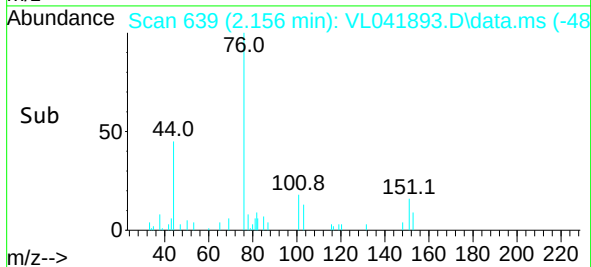
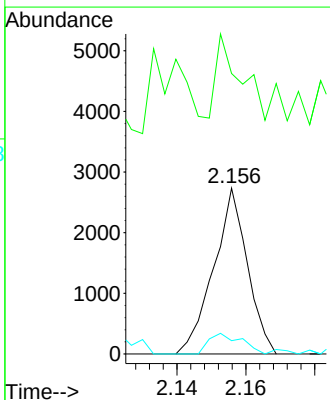
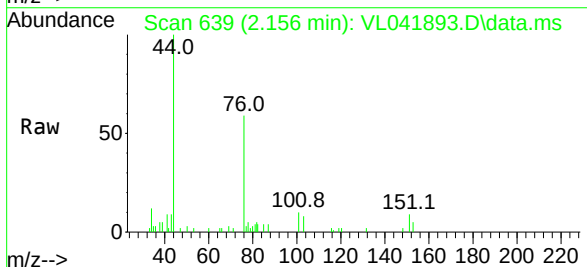
Ion	Ratio	Lower	Upper
57	100		
41	110.6	73.8	110.8
43	8.9	197.3	295.9#
56	48.2	42.7	64.1

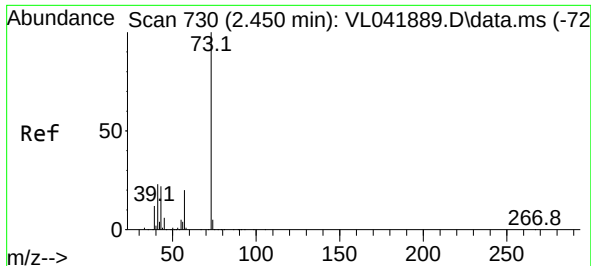


#27
Carbon Disulfide
Concen: 0.103 ppbv
RT: 2.156 min Scan# 639
Delta R.T. 0.000 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

Tgt Ion: 76 Resp: 1864

Ion	Ratio	Lower	Upper
76	100		
44	240.6	15.4	23.0#
78	18.0	9.3	13.9#

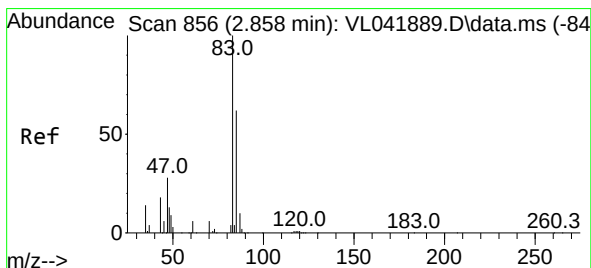
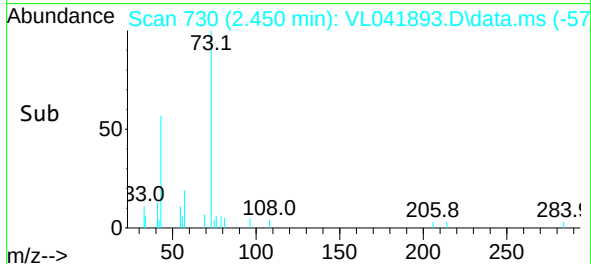
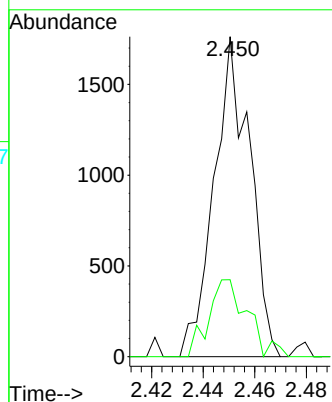
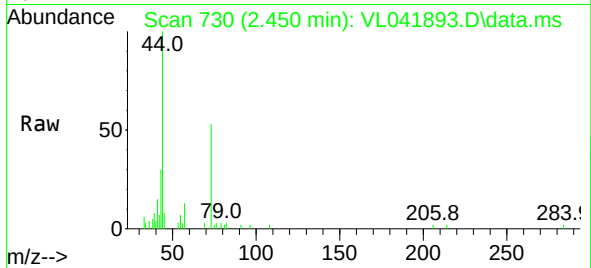




#28
Methyl tert-Butyl Ether
Concen: 0.121 ppbv
RT: 2.450 min Scan# 71
Delta R.T. 0.000 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

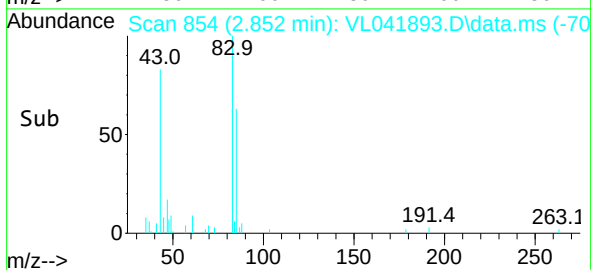
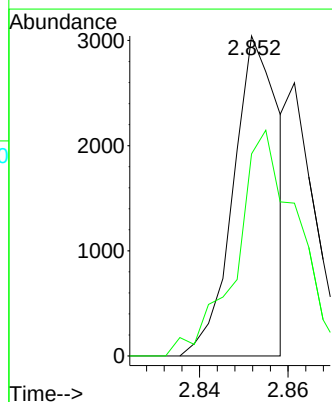
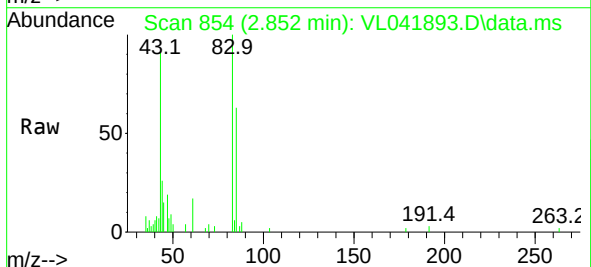
Instrument :
MSVOA_L
ClientSampleId :

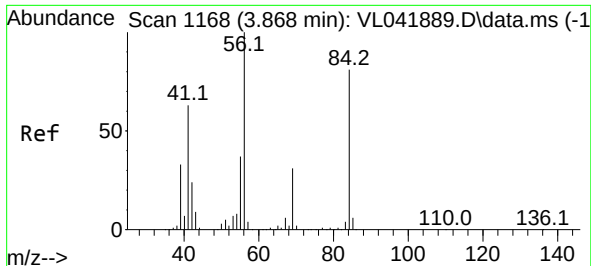
Tgt Ion: 73 Resp: 1702
Ion Ratio Lower Upper
73 100
57 26.1 18.1 27.1



#29
Chloroform
Concen: 0.075 ppbv
RT: 2.852 min Scan# 854
Delta R.T. -0.006 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

Tgt Ion: 83 Resp: 2170
Ion Ratio Lower Upper
83 100
85 57.4 50.1 75.1

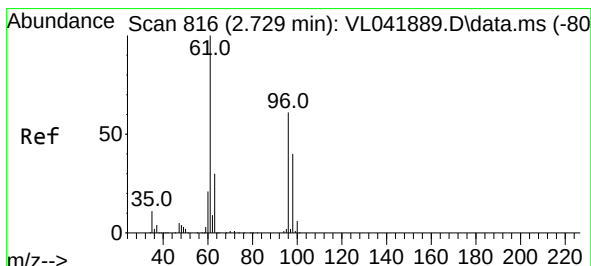
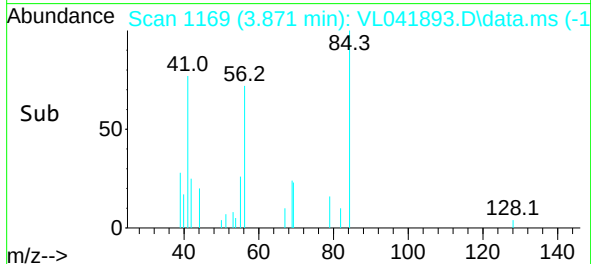
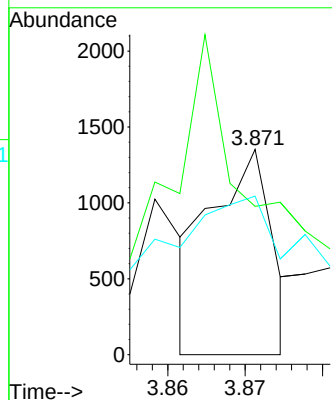
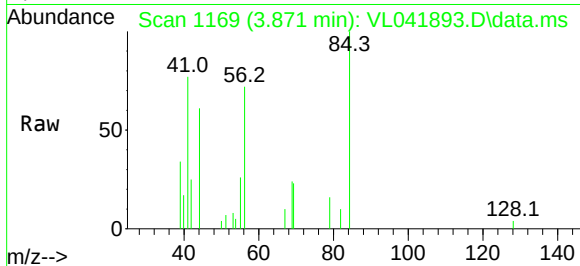




#30
Cyclohexane
Concen: 0.047 ppbv
RT: 3.871 min Scan# 1168
Delta R.T. 0.003 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

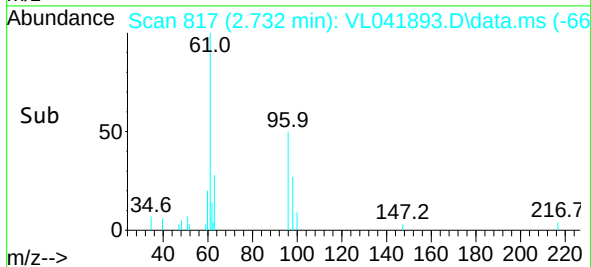
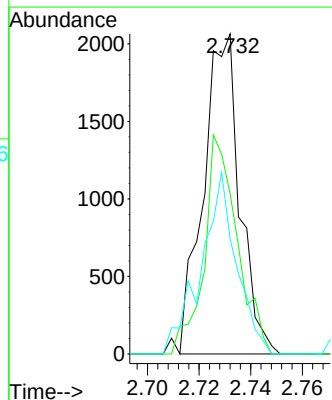
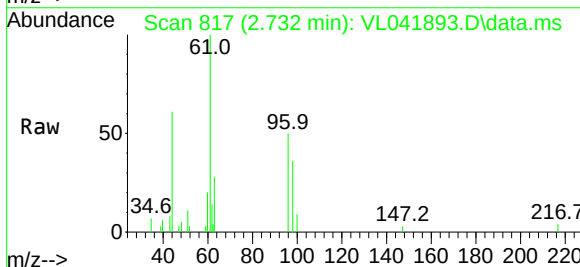
Instrument :
MSVOA_L
ClientSampleId :

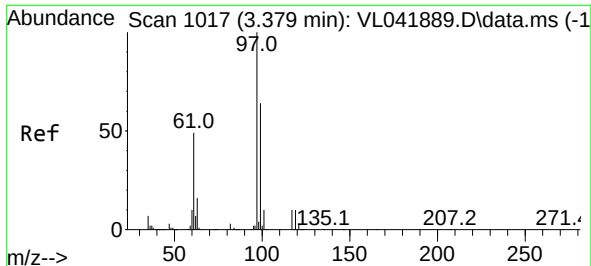
Tgt Ion: 84 Resp: 741
Ion Ratio Lower Upper
84 100
56 0.0 99.3 148.9#
41 237.1 64.3 96.5#



#31
cis-1,2-Dichloroethene
Concen: 0.105 ppbv
RT: 2.732 min Scan# 817
Delta R.T. 0.003 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

Tgt Ion: 61 Resp: 2026
Ion Ratio Lower Upper
61 100
96 43.9 48.7 73.1#
98 31.5 31.6 47.4#

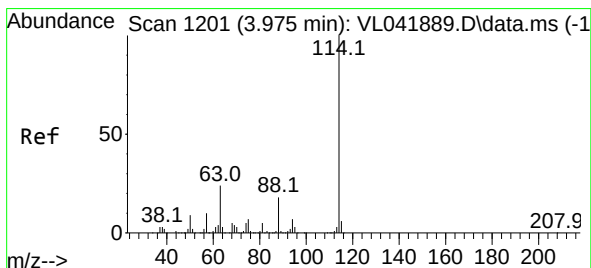
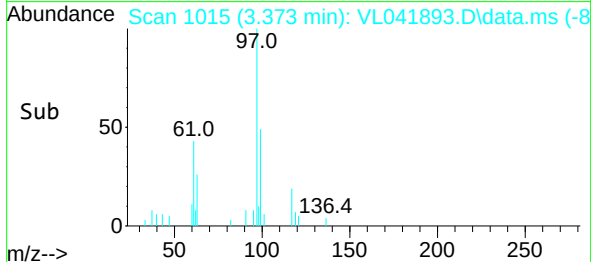
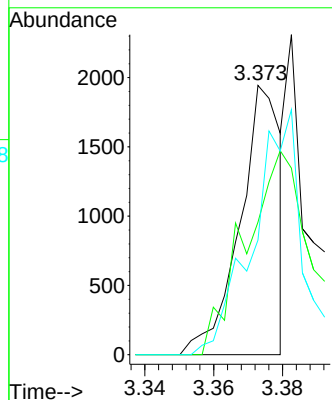
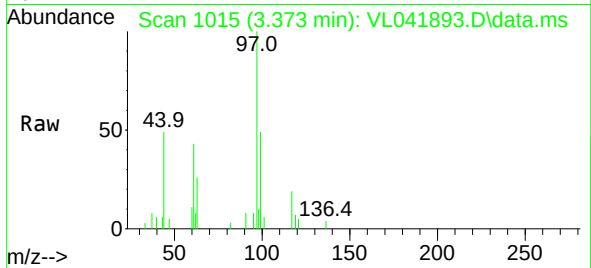




#32
 1,1,1-Trichloroethane
 Concen: 0.057 ppbv
 RT: 3.373 min Scan# 1199
 Delta R.T. -0.006 min
 Lab File: VL041893.D
 Acq: 14 Jan 2025 15:01

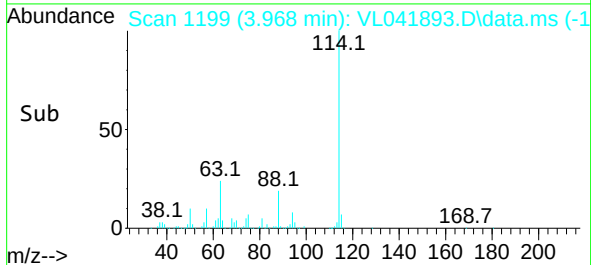
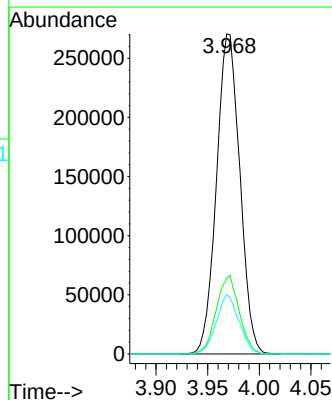
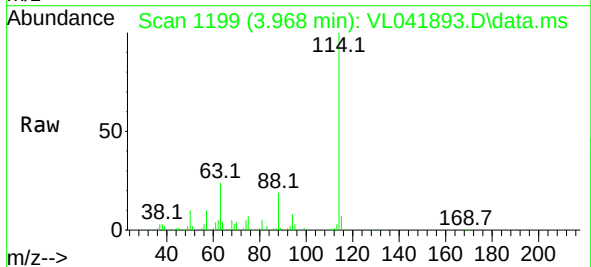
Instrument :
 MSVOA_L
 ClientSampleId :

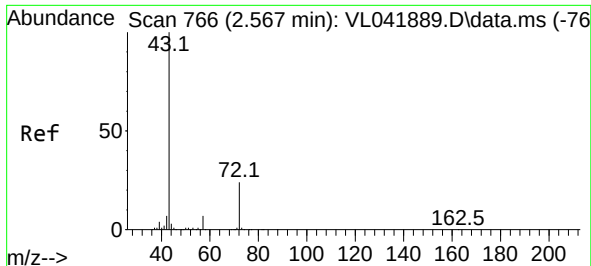
Tgt Ion: 97 Resp: 1597
 Ion Ratio Lower Upper
 97 100
 99 0.0 51.1 76.7#
 61 0.0 39.0 58.6#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.968 min Scan# 1199
 Delta R.T. -0.006 min
 Lab File: VL041893.D
 Acq: 14 Jan 2025 15:01

Tgt Ion: 114 Resp: 425675
 Ion Ratio Lower Upper
 114 100
 63 24.2 19.8 29.6
 88 18.1 14.4 21.6

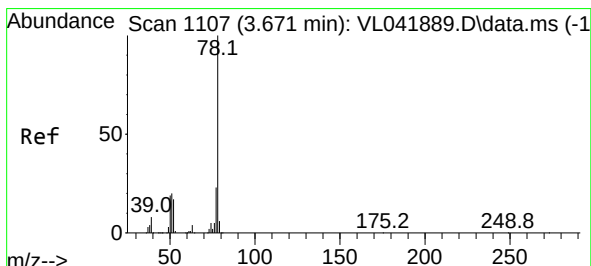
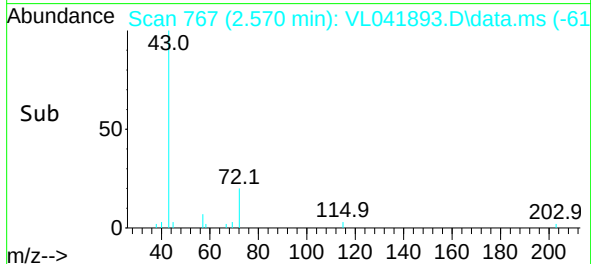
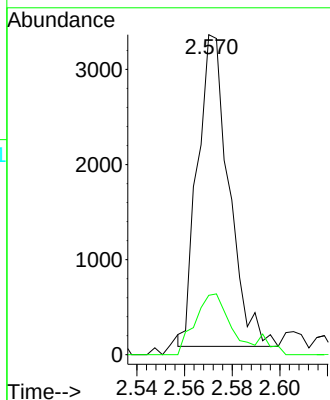
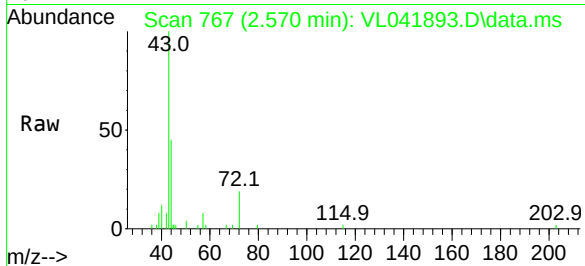




#34
2-Butanone
Concen: 0.111 ppbv
RT: 2.570 min Scan# 71
Delta R.T. 0.003 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

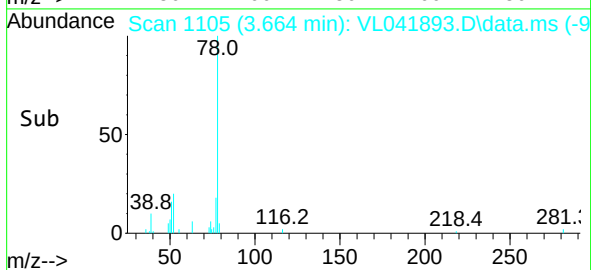
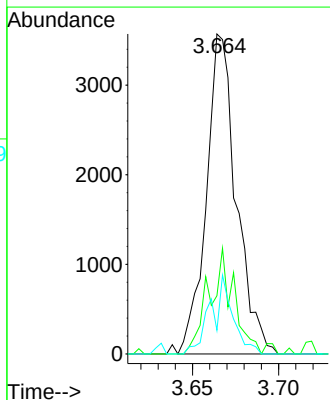
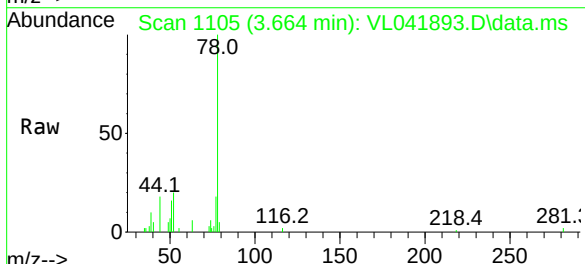
Instrument :
MSVOA_L
ClientSampleId :

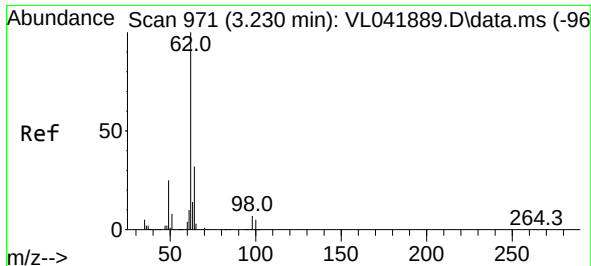
Tgt Ion: 43 Resp: 3002
Ion Ratio Lower Upper
43 100
72 24.6 18.6 28.0



#36
Benzene
Concen: 0.111 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. -0.006 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

Tgt Ion: 78 Resp: 4333
Ion Ratio Lower Upper
78 100
77 18.2 18.1 27.1
50 7.4 15.2 22.8#





#37

1,2-Dichloroethane

Concen: 0.107 ppbv

RT: 3.230 min Scan# 91

Delta R.T. 0.000 min

Lab File: VL041893.D

Acq: 14 Jan 2025 15:01

Instrument :

MSVOA_L

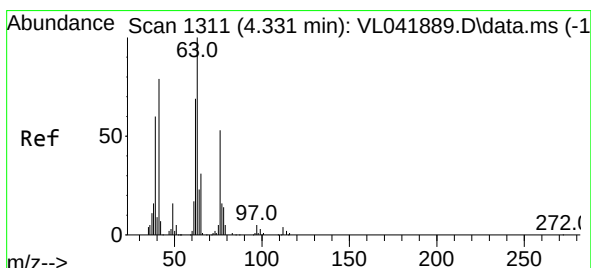
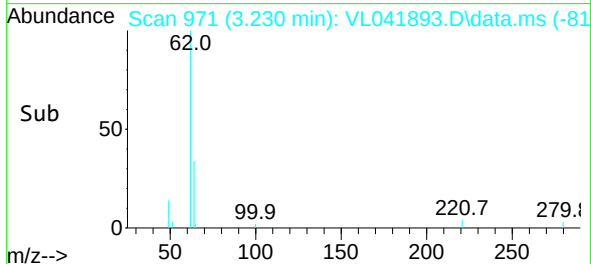
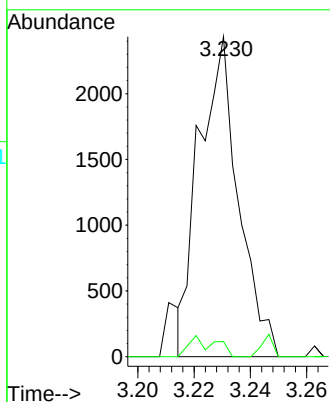
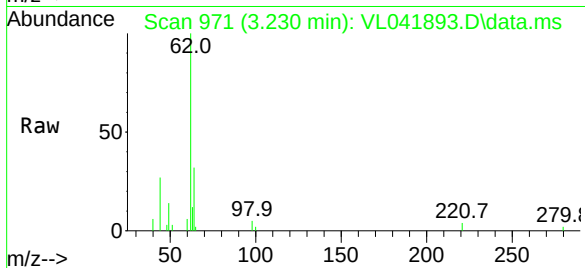
ClientSampleId :

Tgt Ion: 62 Resp: 2356

Ion Ratio Lower Upper

62 100

98 6.3 5.4 8.0



#39

1,2-Dichloropropane

Concen: 7.499 ppbv

RT: 3.972 min Scan# 1200

Delta R.T. -0.359 min

Lab File: VL041893.D

Acq: 14 Jan 2025 15:01

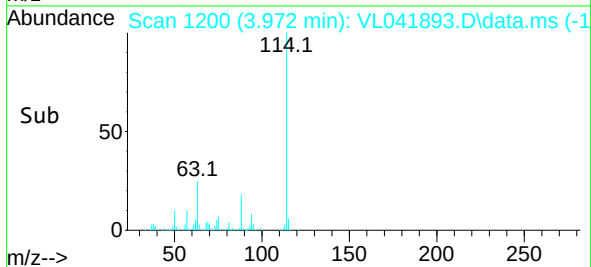
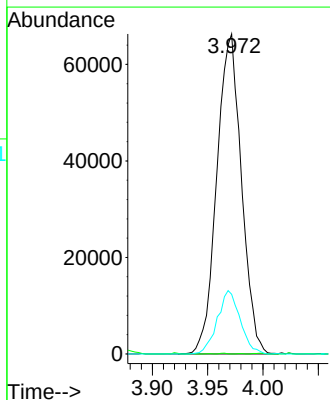
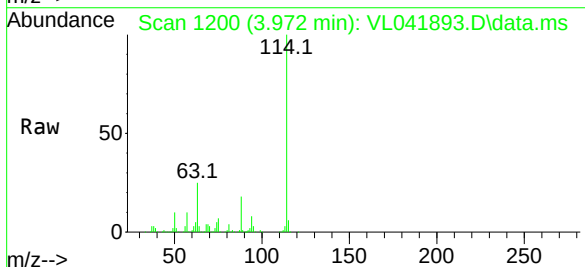
Tgt Ion: 63 Resp: 102706

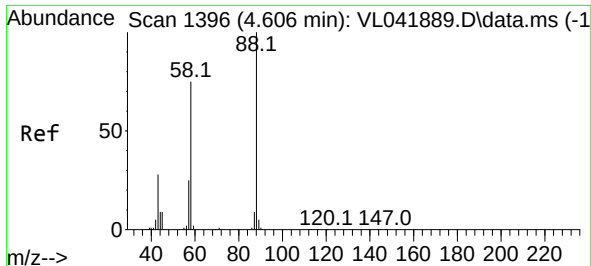
Ion Ratio Lower Upper

63 100

41 0.0 63.7 95.5#

62 18.7 55.4 83.2#





#40

1,4-Dioxane

Concen: 0.040 ppbv

RT: 4.629 min Scan# 1403

Delta R.T. 0.023 min

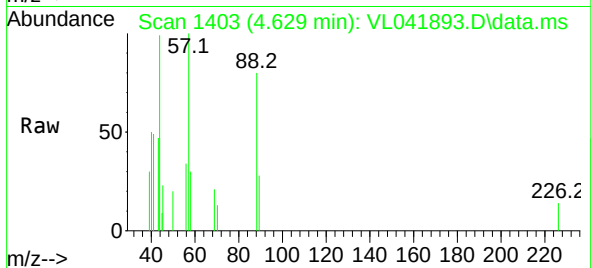
Lab File: VL041893.D

Acq: 14 Jan 2025 15:01

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 88 Resp: 277

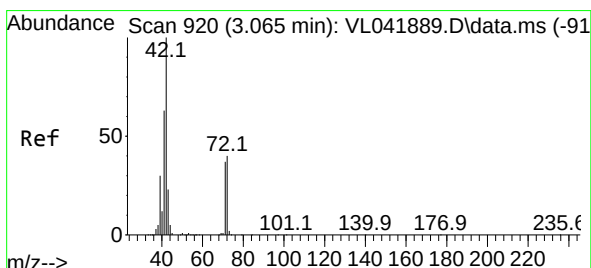
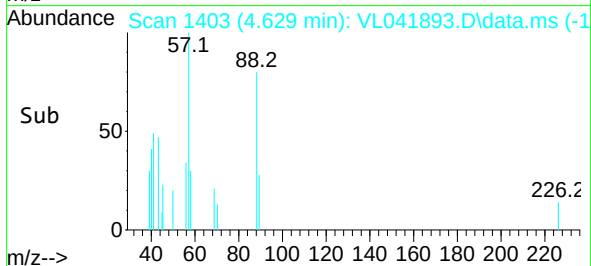
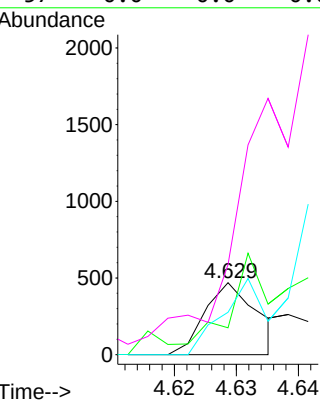
Ion Ratio Lower Upper

88 100

58 337.5 62.1 93.1#

43 0.0 0.0 0.0

57 0.0 0.0 0.0



#41

Tetrahydrofuran

Concen: 0.106 ppbv

RT: 3.082 min Scan# 925

Delta R.T. 0.016 min

Lab File: VL041893.D

Acq: 14 Jan 2025 15:01

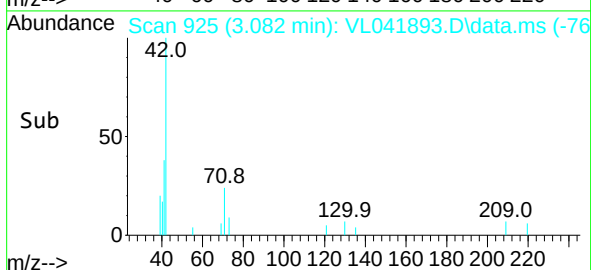
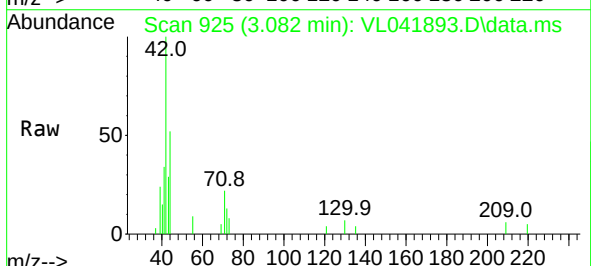
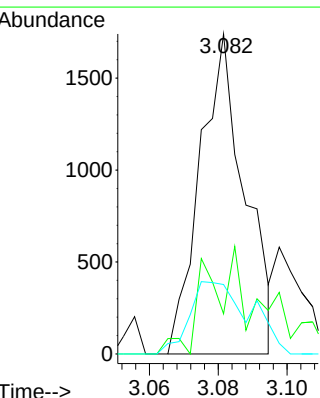
Tgt Ion: 42 Resp: 1571

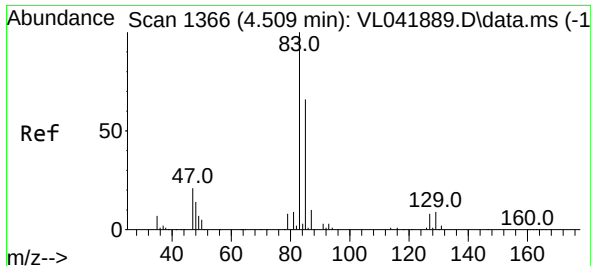
Ion Ratio Lower Upper

42 100

72 41.6 32.3 48.5

71 31.3 29.9 44.9

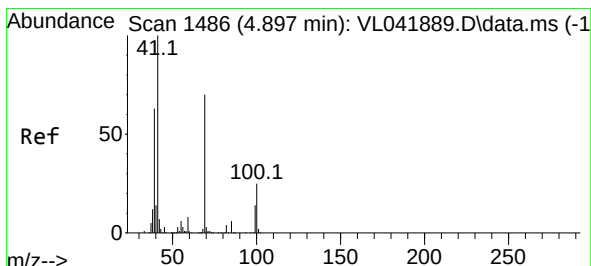
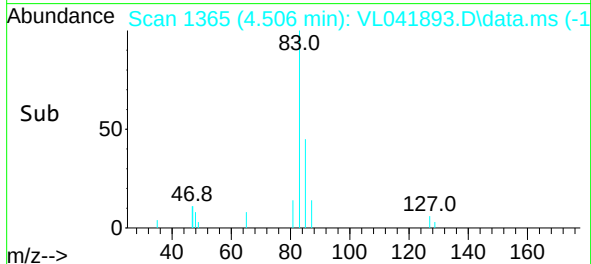
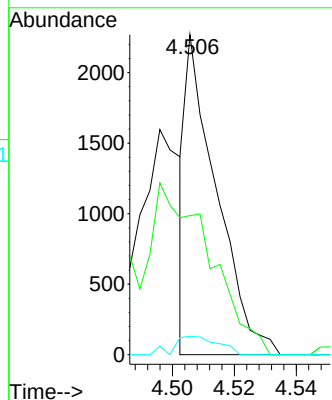
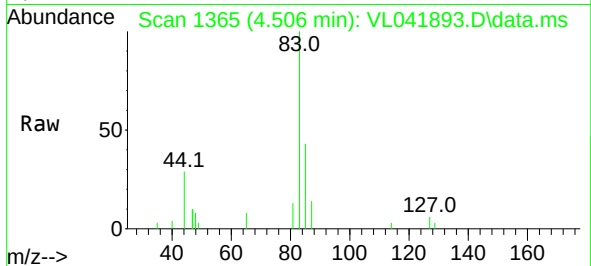




#42
Bromodichloromethane
Concen: 0.053 ppbv
RT: 4.506 min Scan# 1366
Delta R.T. -0.003 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

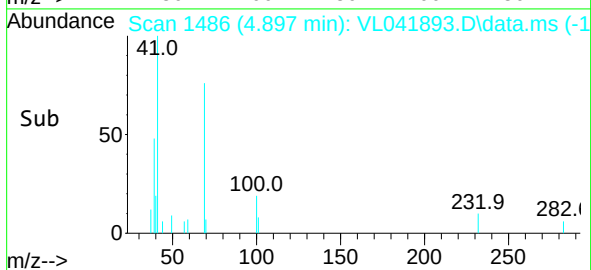
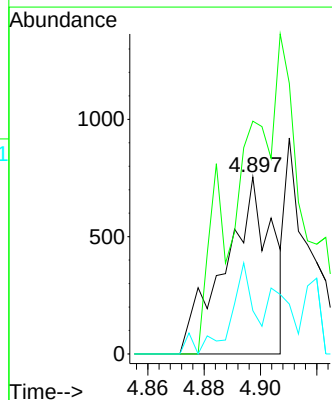
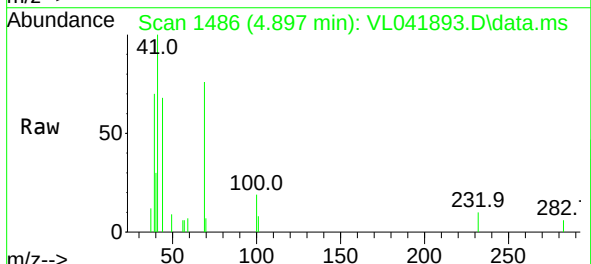
Instrument :
MSVOA_L
ClientSampleId :

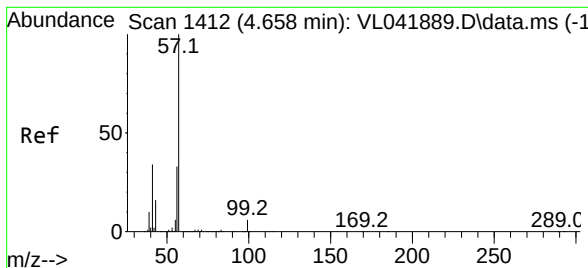
Tgt Ion: 83 Resp: 1561
Ion Ratio Lower Upper
83 100
85 43.5 52.6 78.8#
127 5.8 6.4 9.6#



#43
Methyl Methacrylate
Concen: 0.060 ppbv
RT: 4.897 min Scan# 1486
Delta R.T. 0.000 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

Tgt Ion: 69 Resp: 877
Ion Ratio Lower Upper
69 100
41 0.0 118.6 177.8#
100 58.3 29.3 43.9#

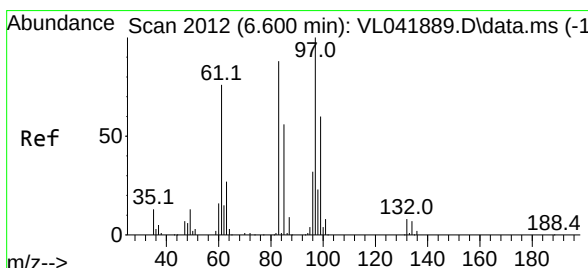
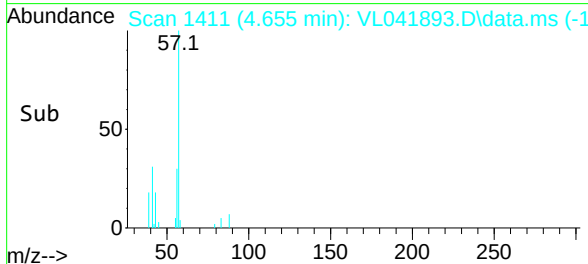
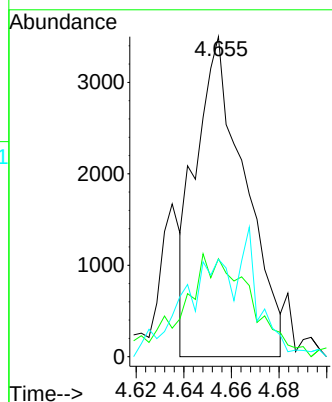
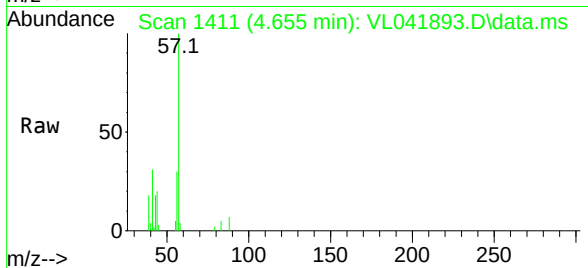




#44
 2,2,4-Trimethylpentane
 Concen: 0.079 ppbv
 RT: 4.655 min Scan# 1412
 Delta R.T. -0.003 min
 Lab File: VL041893.D
 Acq: 14 Jan 2025 15:01

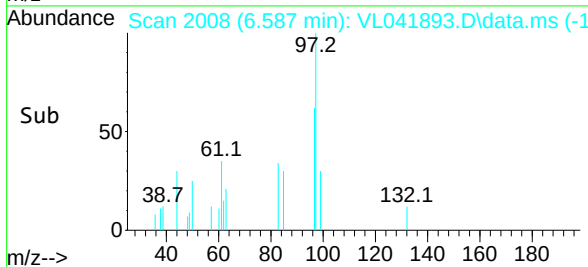
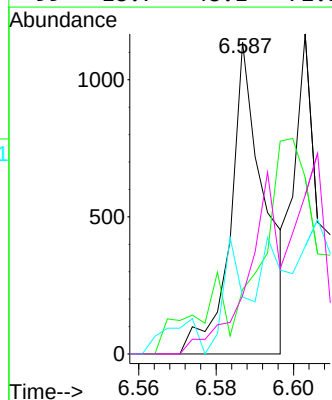
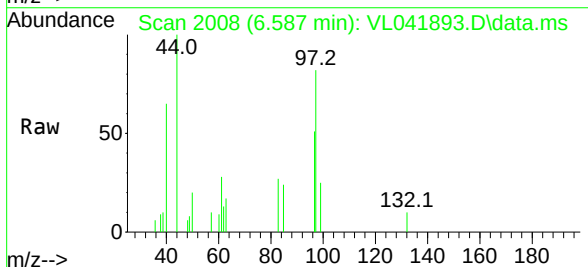
Instrument :
 MSVOA_L
 ClientSampleId :

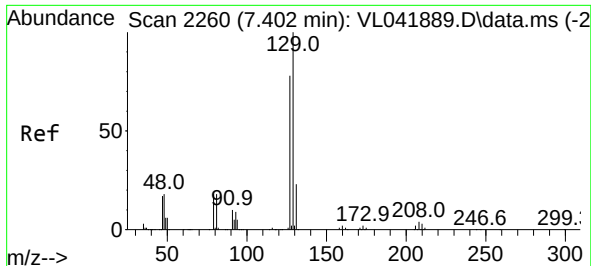
Tgt Ion: 57 Resp: 4994
 Ion Ratio Lower Upper
 57 100
 41 45.7 26.6 40.0#
 56 0.0 25.4 38.2#



#47
 1,1,2-Trichloroethane
 Concen: 0.048 ppbv
 RT: 6.587 min Scan# 2008
 Delta R.T. -0.013 min
 Lab File: VL041893.D
 Acq: 14 Jan 2025 15:01

Tgt Ion: 97 Resp: 694
 Ion Ratio Lower Upper
 97 100
 83 9.9 70.4 105.6#
 85 10.0 45.0 67.4#
 99 18.7 48.1 72.1#

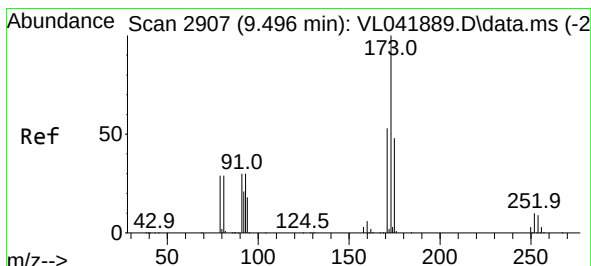
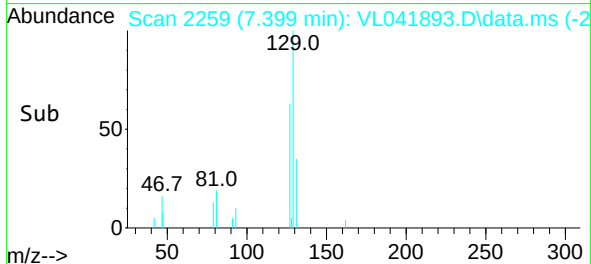
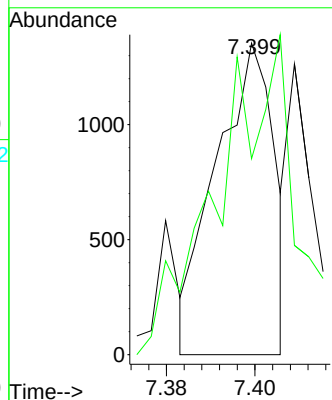
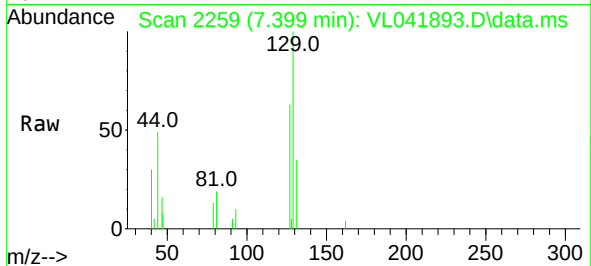




#48
Dibromochloromethane
Concen: 0.055 ppbv
RT: 7.399 min Scan# 211
Delta R.T. -0.003 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

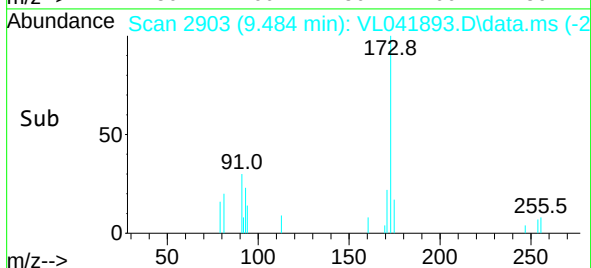
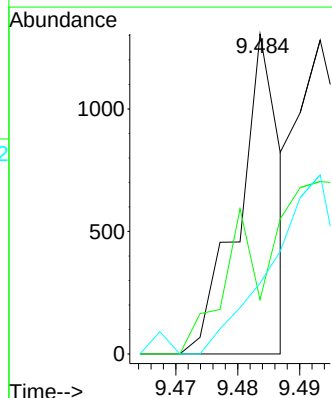
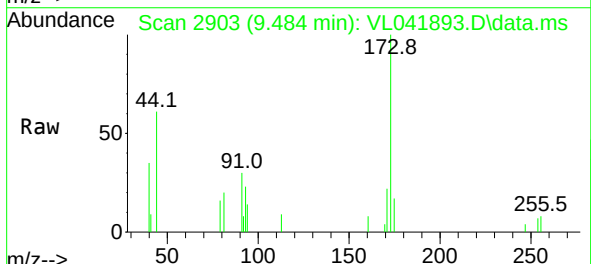
Instrument :
MSVOA_L
ClientSampleId :

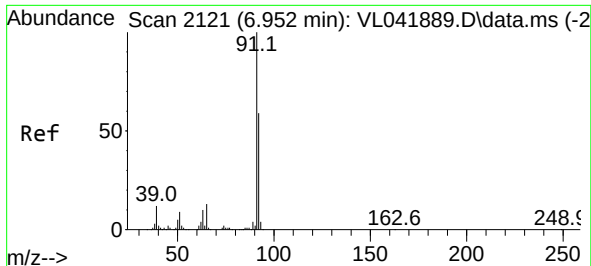
Tgt Ion:129 Resp: 1237
Ion Ratio Lower Upper
129 100
127 0.0 39.3 117.8#



#49
Bromoform
Concen: 0.033 ppbv
RT: 9.484 min Scan# 2903
Delta R.T. -0.013 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

Tgt Ion:173 Resp: 604
Ion Ratio Lower Upper
173 100
175 0.0 38.4 57.6#
171 0.0 41.4 62.2#

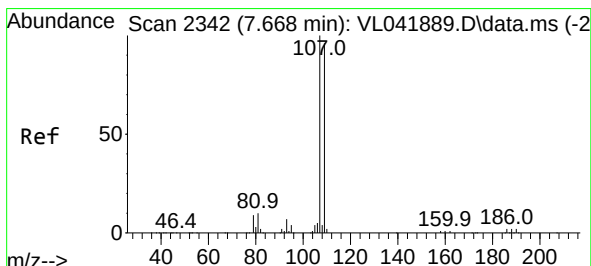
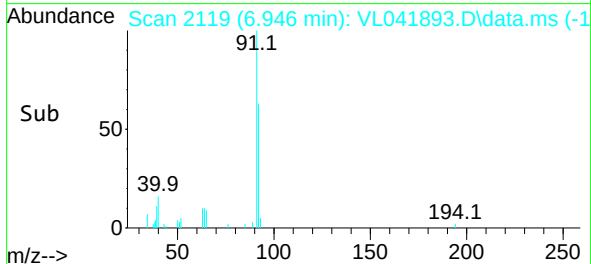
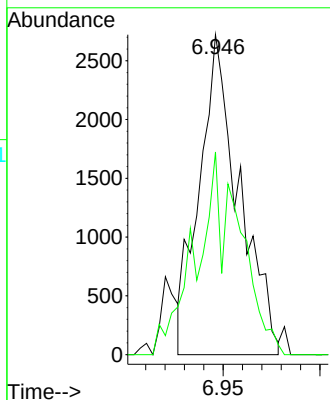
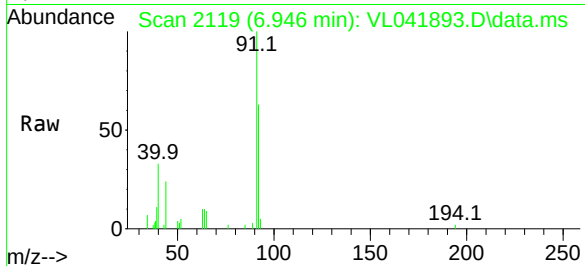




#53
Toluene
Concen: 0.092 ppbv
RT: 6.946 min Scan# 2119
Delta R.T. -0.006 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

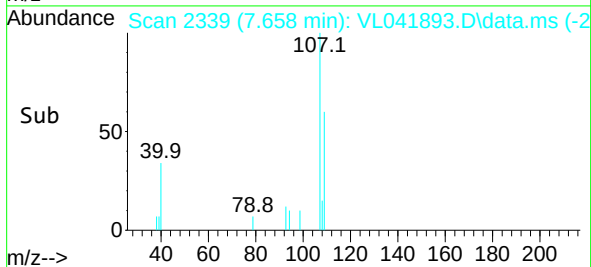
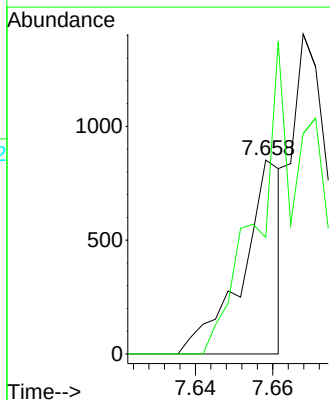
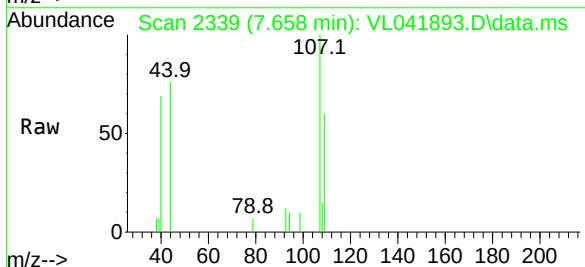
Instrument :
MSVOA_L
ClientSampleId :

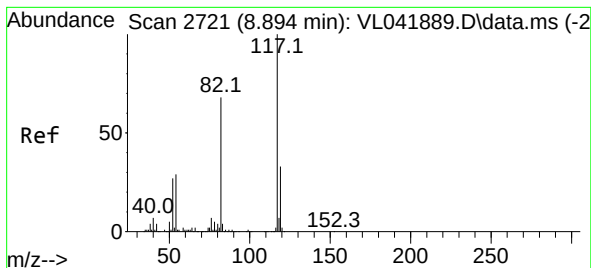
Tgt Ion: 91 Resp: 3901
Ion Ratio Lower Upper
91 100
92 70.1 47.4 71.0



#54
1,2-Dibromoethane
Concen: 0.030 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. -0.010 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

Tgt Ion: 107 Resp: 599
Ion Ratio Lower Upper
107 100
109 60.1 76.7 115.1#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.891 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL041893.D

Acq: 14 Jan 2025 15:01

Instrument :

MSVOA_L

ClientSampleId :

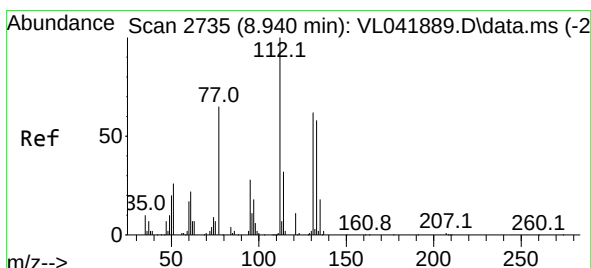
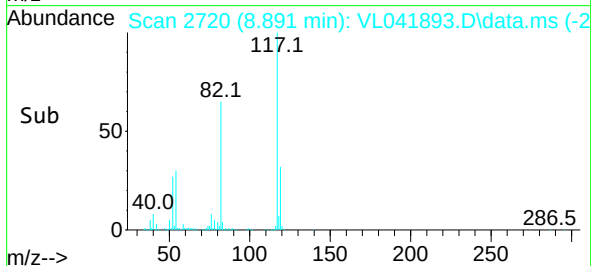
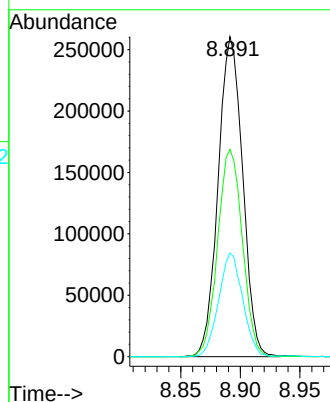
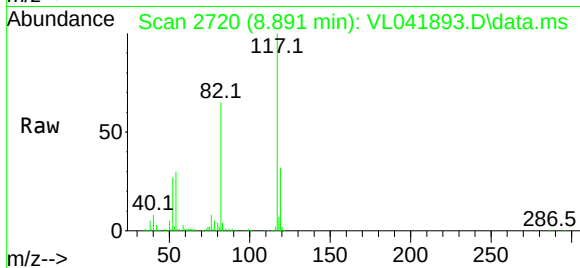
Tgt Ion:117 Resp: 372545

Ion Ratio Lower Upper

117 100

82 65.3 54.2 81.4

119 32.1 25.0 37.6



#56

1,1,1,2-Tetrachloroethane

Concen: 0.054 ppbv

RT: 8.937 min Scan# 2734

Delta R.T. -0.003 min

Lab File: VL041893.D

Acq: 14 Jan 2025 15:01

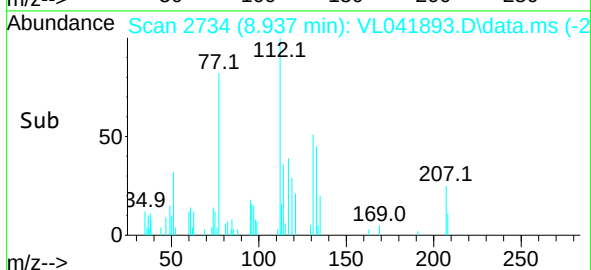
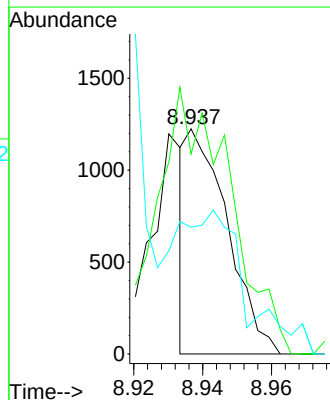
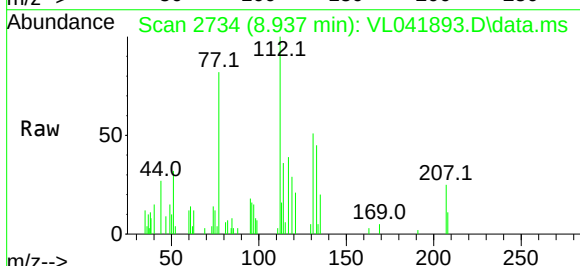
Tgt Ion:131 Resp: 1008

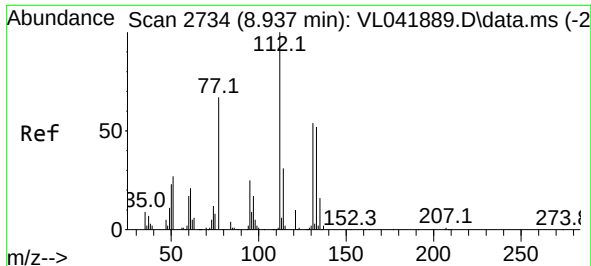
Ion Ratio Lower Upper

131 100

133 218.6 76.0 114.0#

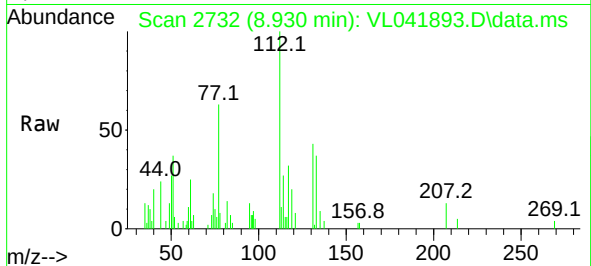
119 0.0 49.7 74.5#



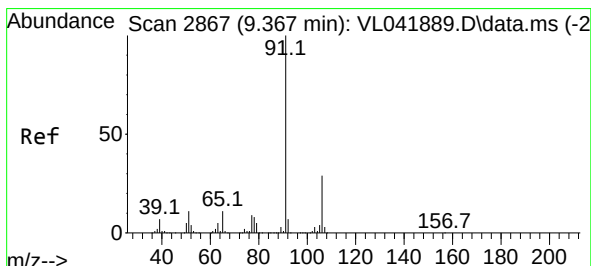
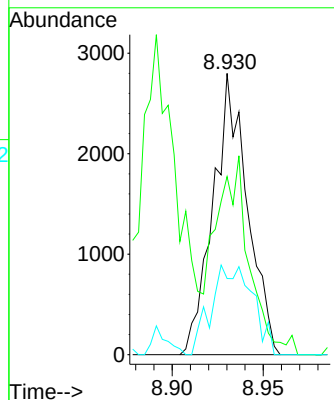
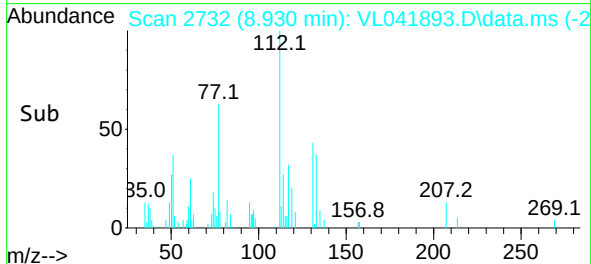


#57
Chlorobenzene
Concen: 0.107 ppbv
RT: 8.930 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

Instrument :
MSVOA_L
ClientSampleId :

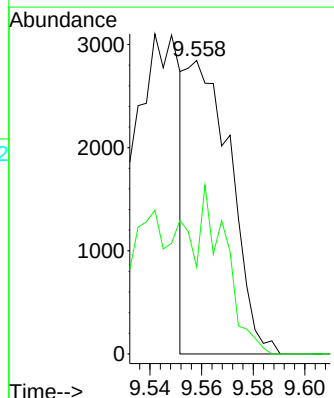
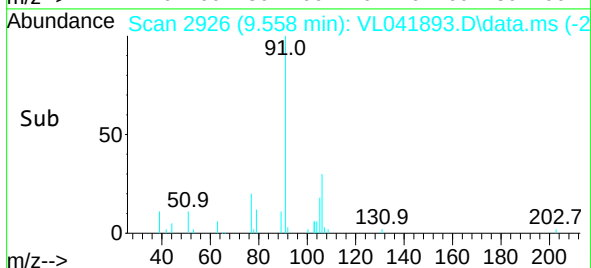
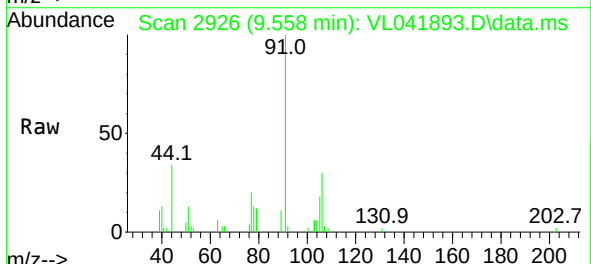


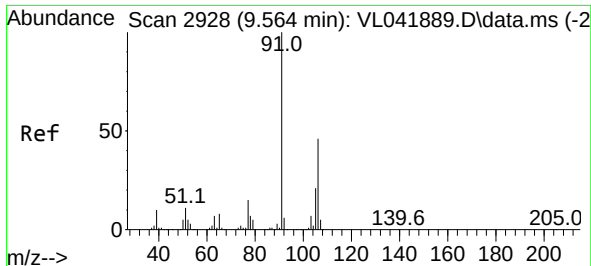
Tgt Ion:112 Resp: 3668
Ion Ratio Lower Upper
112 100
77 58.9 54.6 82.0
114 27.1 28.2 34.4#



#58
Ethyl Benzene
Concen: 0.058 ppbv
RT: 9.558 min Scan# 2926
Delta R.T. 0.191 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

Tgt Ion: 91 Resp: 3385
Ion Ratio Lower Upper
91 100
106 29.6 23.1 34.7





#59

m/p-Xylene

Concen: 0.072 ppbv

RT: 9.558 min Scan# 2926

Delta R.T. -0.006 min

Lab File: VL041893.D

Acq: 14 Jan 2025 15:01

Instrument :

MSVOA_L

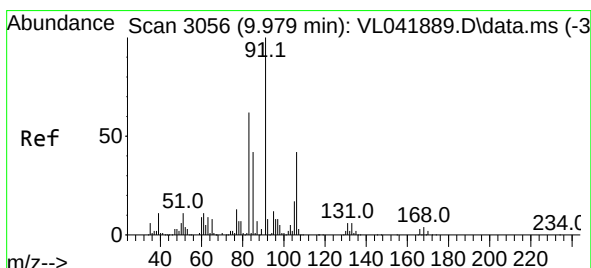
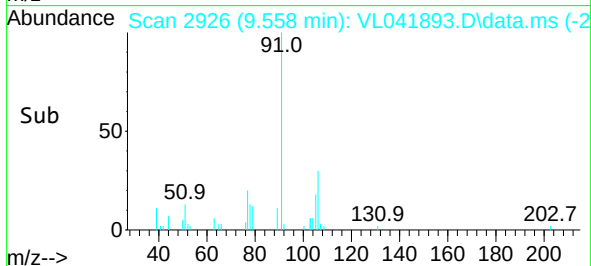
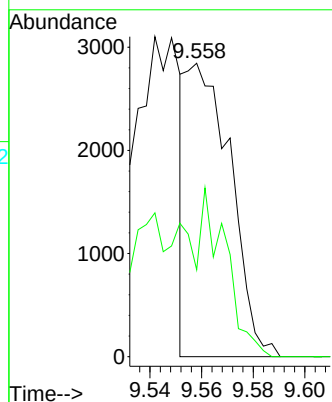
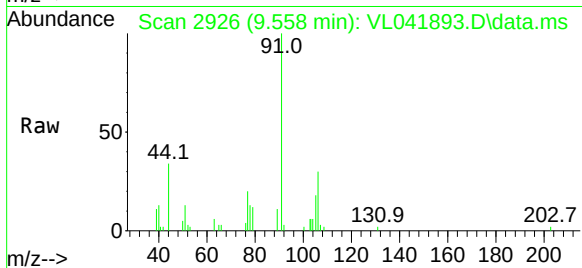
ClientSampleId :

Tgt Ion: 91 Resp: 3385

Ion Ratio Lower Upper

91 100

106 98.6 36.0 54.0#



#60

o-Xylene

Concen: 0.085 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. -0.006 min

Lab File: VL041893.D

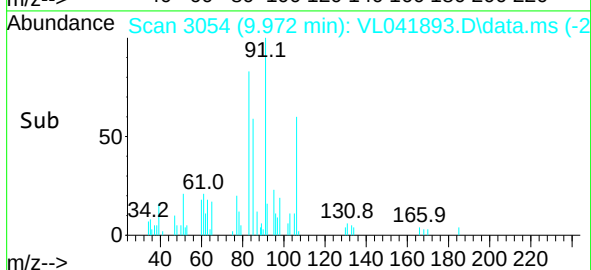
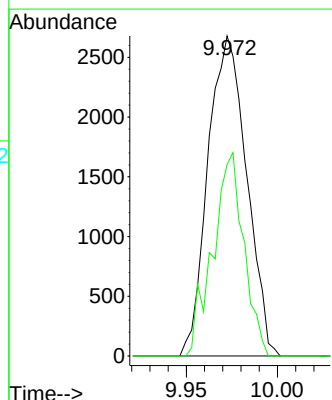
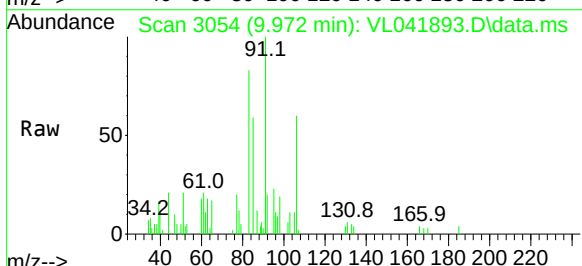
Acq: 14 Jan 2025 15:01

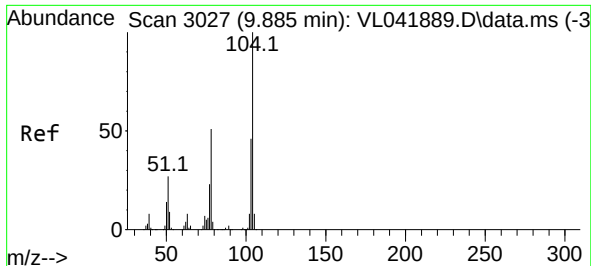
Tgt Ion: 91 Resp: 3951

Ion Ratio Lower Upper

91 100

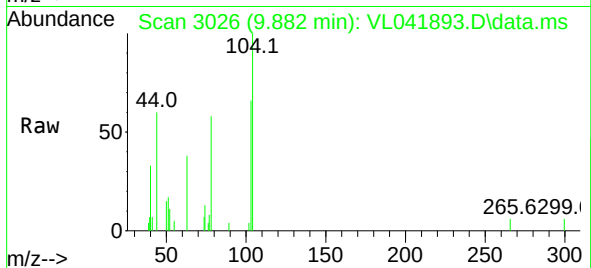
106 51.2 21.3 63.9



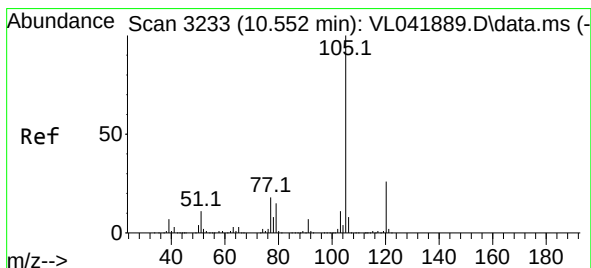
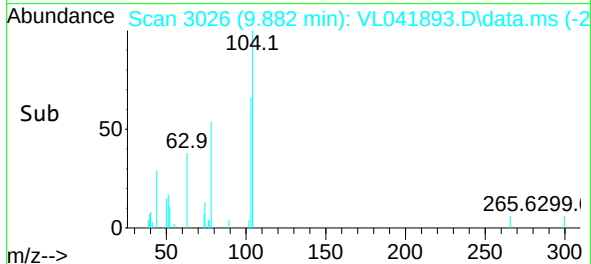
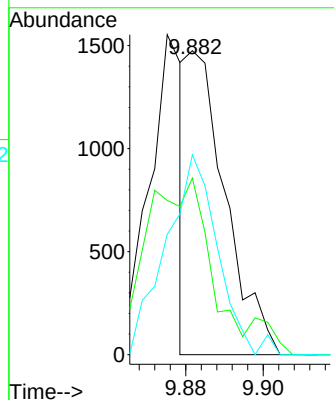


#61
Styrene
Concen: 0.049 ppbv
RT: 9.882 min Scan# 3026
Delta R.T. -0.003 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

Instrument :
MSVOA_L
ClientSampleId :

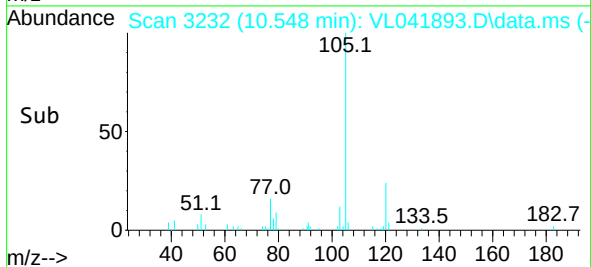
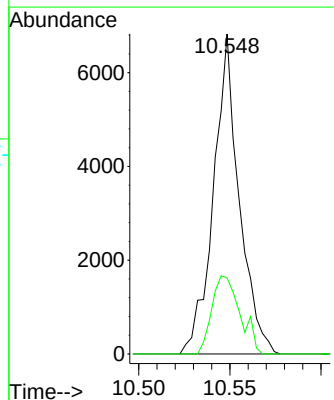
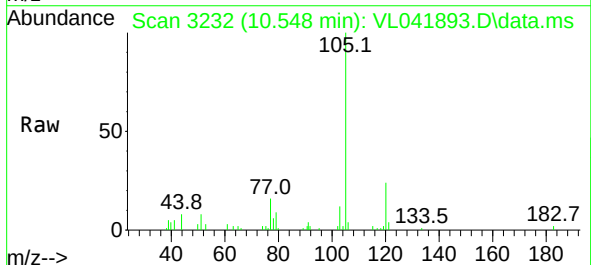


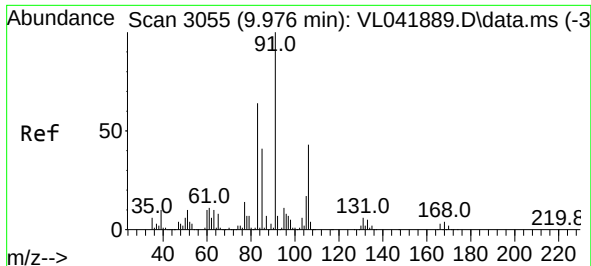
Tgt Ion:104 Resp: 1008
Ion Ratio Lower Upper
104 100
78 107.8 41.0 61.6#
103 89.2 37.2 55.8#



#62
Isopropylbenzene
Concen: 0.093 ppbv
RT: 10.548 min Scan# 3232
Delta R.T. -0.003 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

Tgt Ion:105 Resp: 6701
Ion Ratio Lower Upper
105 100
120 26.8 20.3 30.5





#63

1,1,2-Tetrachloroethane

Concen: 0.097 ppbv

RT: 9.976 min Scan# 3055

Delta R.T. 0.000 min

Lab File: VL041893.D

Acq: 14 Jan 2025 15:01

Instrument :

MSVOA_L

ClientSampleId :

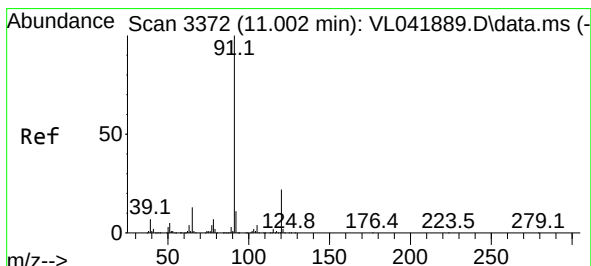
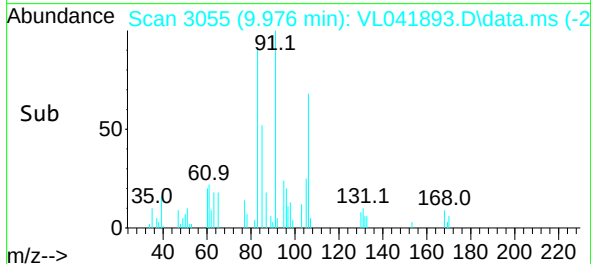
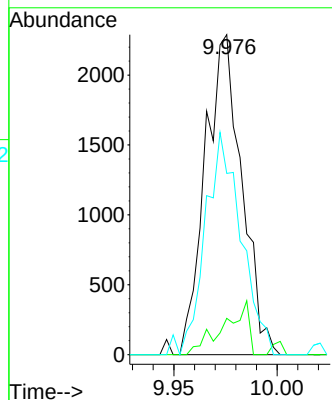
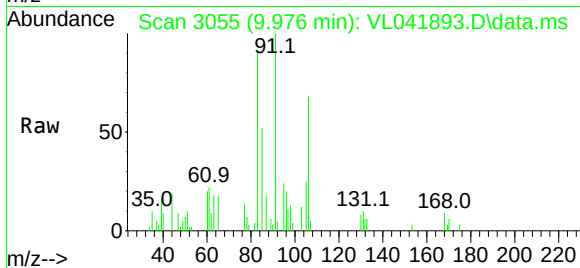
Tgt Ion: 83 Resp: 2816

Ion Ratio Lower Upper

83 100

131 12.7 4.8 14.4

85 68.4 32.4 97.2



#64

n-propylbenzene

Concen: 0.078 ppbv

RT: 10.998 min Scan# 3371

Delta R.T. -0.003 min

Lab File: VL041893.D

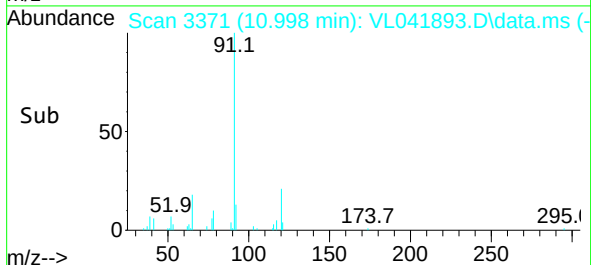
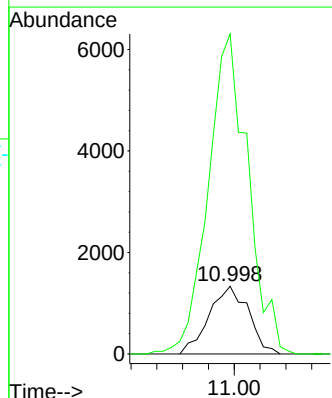
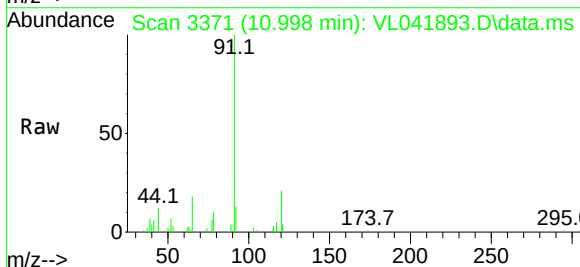
Acq: 14 Jan 2025 15:01

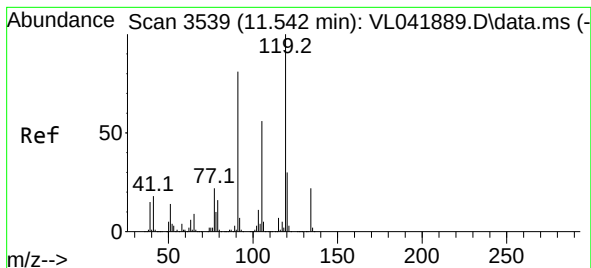
Tgt Ion: 120 Resp: 1416

Ion Ratio Lower Upper

120 100

91 476.2 374.1 561.1

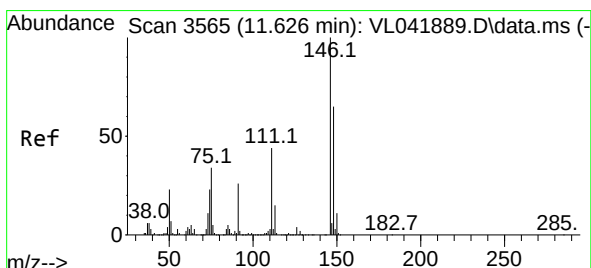
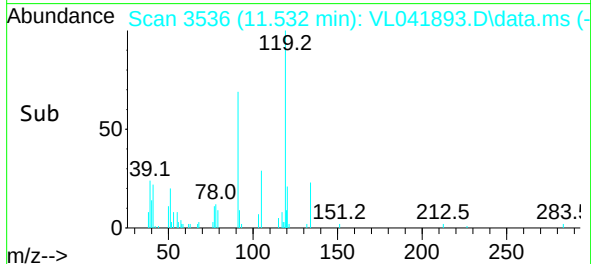
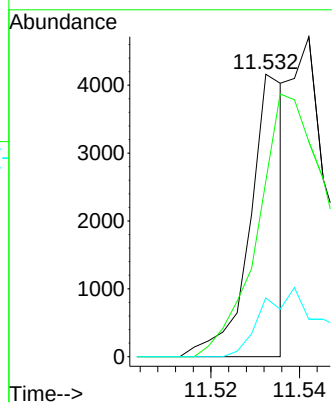
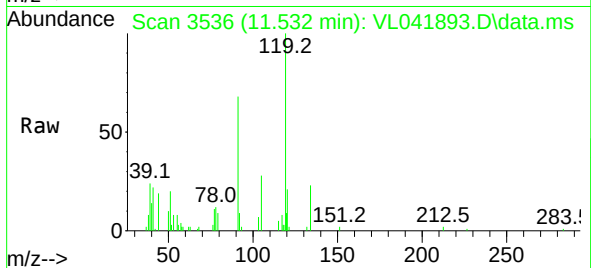




#65
tert-Butylbenzene
Concen: 0.035 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.010 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

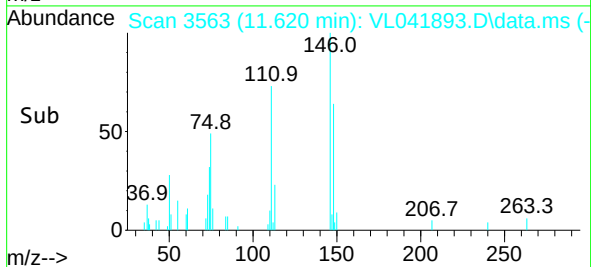
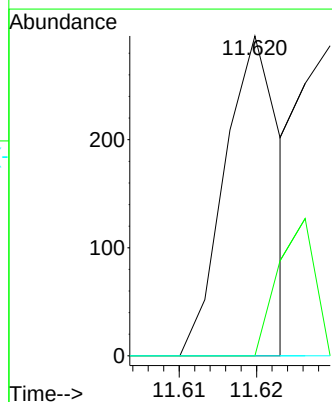
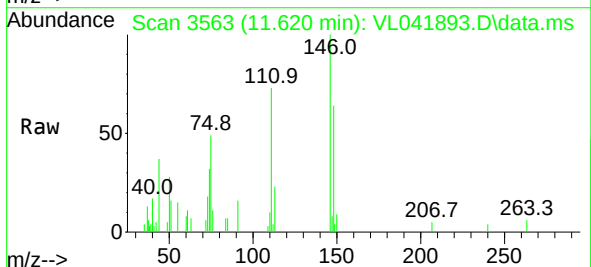
Instrument :
MSVOA_L
ClientSampleId :

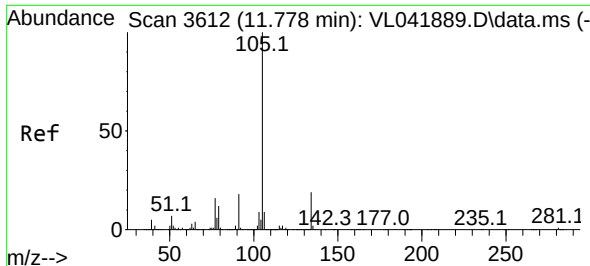
Tgt Ion:119 Resp: 2265
Ion Ratio Lower Upper
119 100
91 197.1 64.6 97.0#
134 43.2 16.8 25.2#



#66
Benzyl Chloride
Concen: 0.036 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. -0.006 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

Tgt Ion: 91 Resp: 147
Ion Ratio Lower Upper
91 100
126 0.0 14.1 21.1#
128 0.0 4.3 6.5#

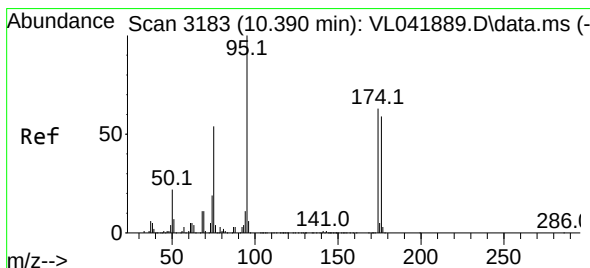
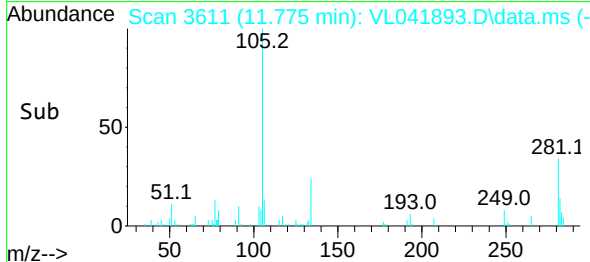
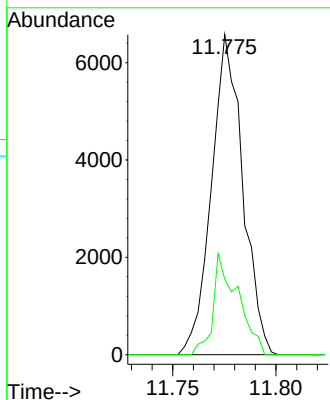
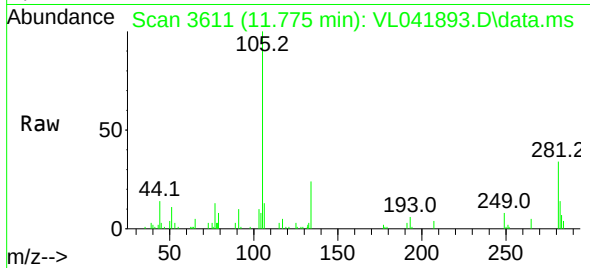




#67
 sec-Butylbenzene
 Concen: 0.077 ppbv
 RT: 11.775 min Scan# 311
 Delta R.T. -0.003 min
 Lab File: VL041893.D
 Acq: 14 Jan 2025 15:01

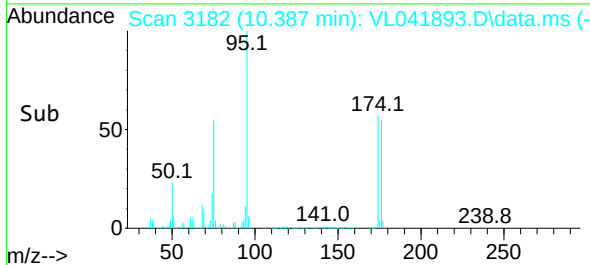
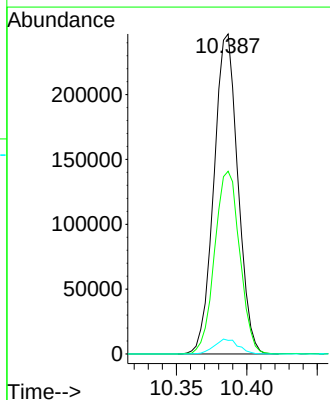
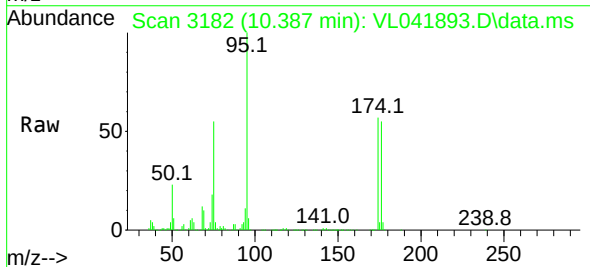
Instrument :
 MSVOA_L
 ClientSampleId :

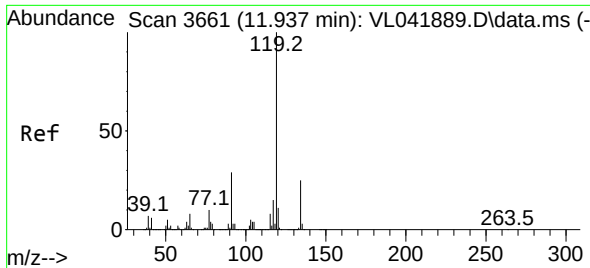
Tgt Ion:105 Resp: 6920
 Ion Ratio Lower Upper
 105 100
 134 25.0 15.1 22.7#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.961 ppbv
 RT: 10.387 min Scan# 3182
 Delta R.T. -0.003 min
 Lab File: VL041893.D
 Acq: 14 Jan 2025 15:01

Tgt Ion: 95 Resp: 292283
 Ion Ratio Lower Upper
 95 100
 174 59.8 49.0 73.4
 175 4.7 3.8 5.8

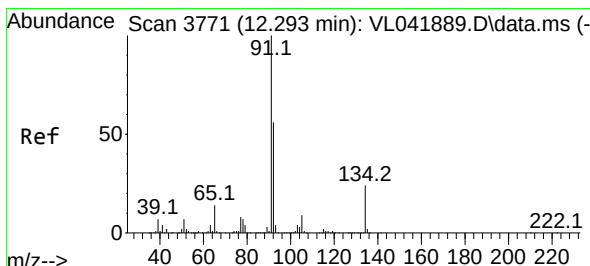
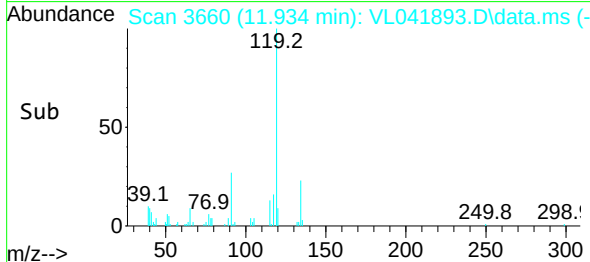
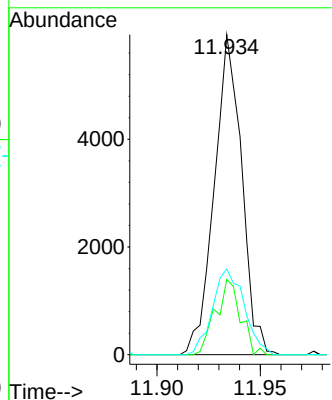
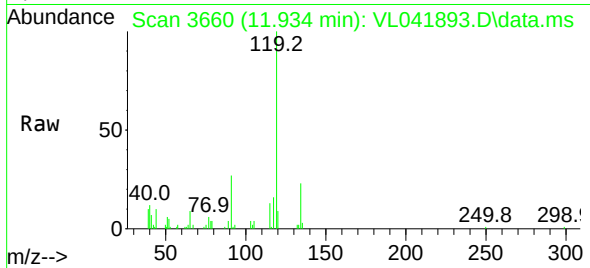




#69
 p-Isopropyltoluene
 Concen: 0.074 ppbv
 RT: 11.934 min Scan# 3660
 Delta R.T. -0.003 min
 Lab File: VL041893.D
 Acq: 14 Jan 2025 15:01

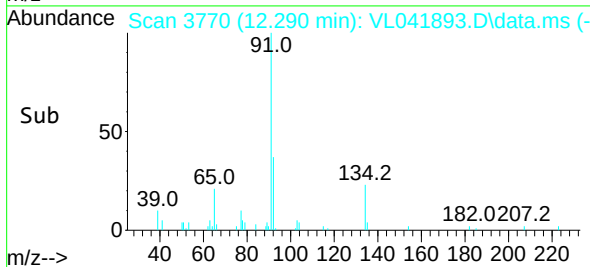
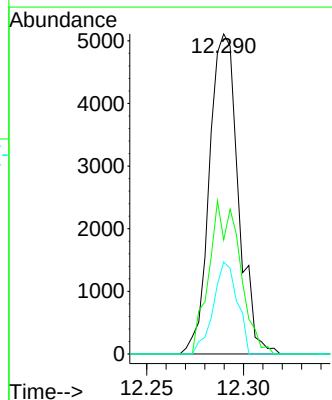
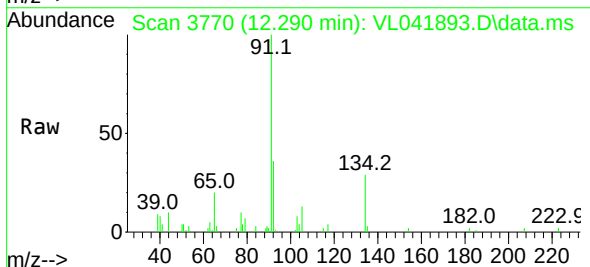
Instrument :
 MSVOA_L
 ClientSampleId :

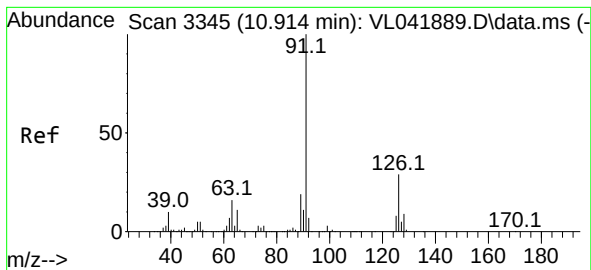
Tgt Ion:119 Resp: 5480
 Ion Ratio Lower Upper
 119 100
 134 21.4 19.8 29.6
 91 31.1 23.0 34.4



#70
 n-Butylbenzene
 Concen: 0.072 ppbv
 RT: 12.290 min Scan# 3770
 Delta R.T. -0.003 min
 Lab File: VL041893.D
 Acq: 14 Jan 2025 15:01

Tgt Ion: 91 Resp: 5297
 Ion Ratio Lower Upper
 91 100
 92 50.9 43.8 65.6
 134 23.8 19.0 28.6

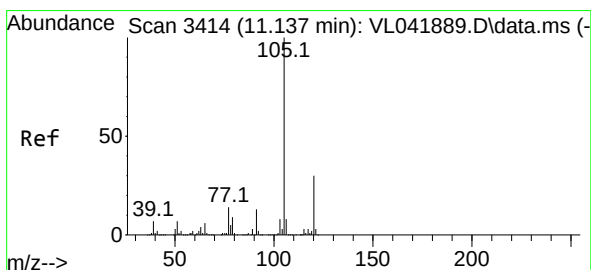
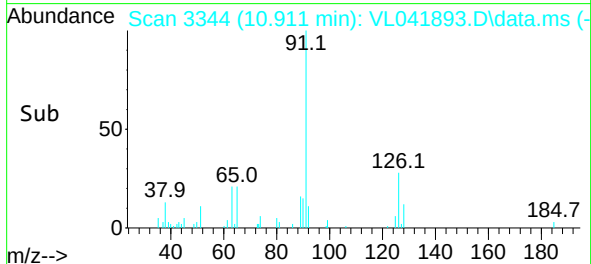
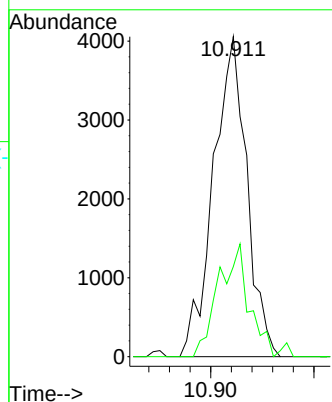
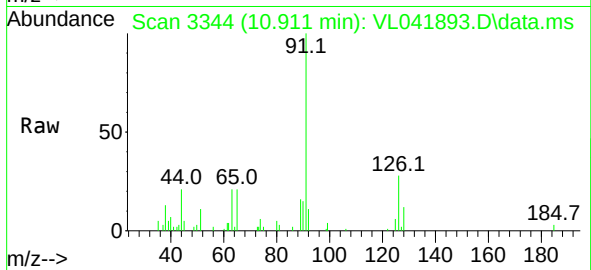




#71
2-Chlorotoluene
Concen: 0.086 ppbv
RT: 10.911 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

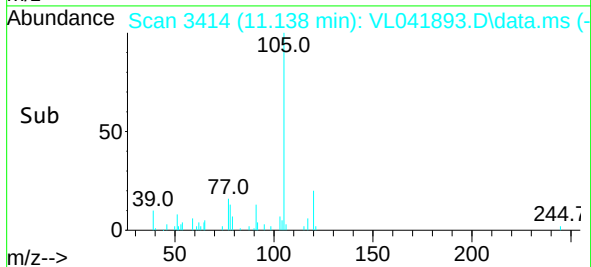
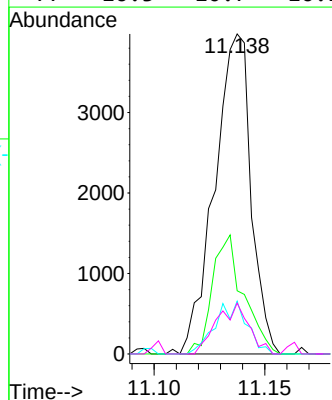
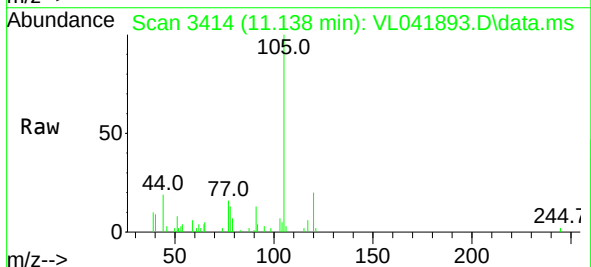
Instrument :
MSVOA_L
ClientSampleId :

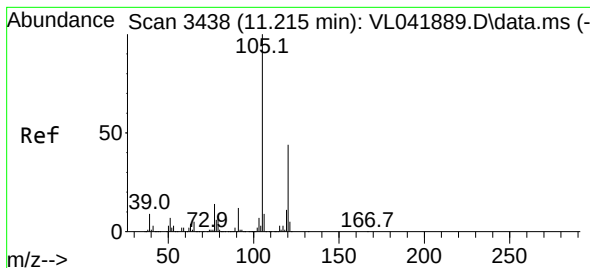
Tgt Ion: 91 Resp: 4562
Ion Ratio Lower Upper
91 100
126 33.1 11.7 46.7



#72
4-Ethyltoluene
Concen: 0.082 ppbv
RT: 11.138 min Scan# 3414
Delta R.T. 0.000 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

Tgt Ion:105 Resp: 4547
Ion Ratio Lower Upper
105 100
120 31.7 23.7 35.5
91 14.9 10.2 15.2
77 16.3 10.7 16.1#

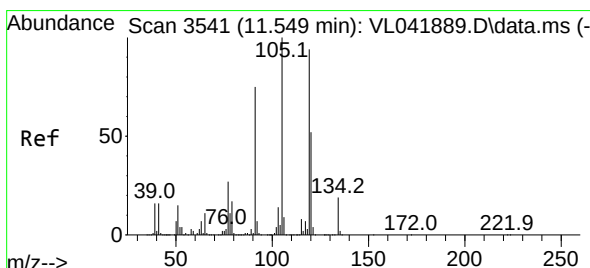
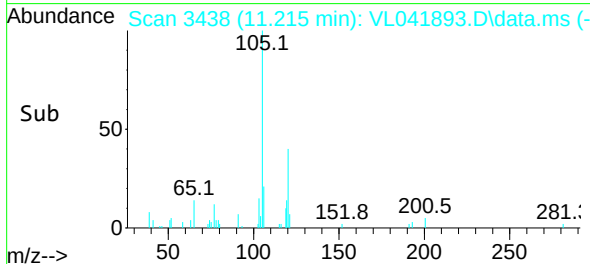
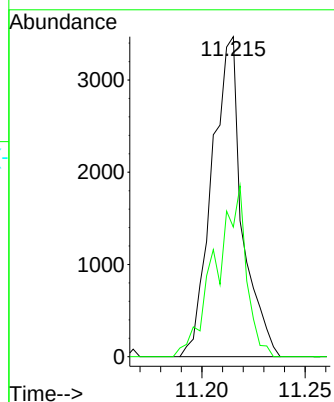
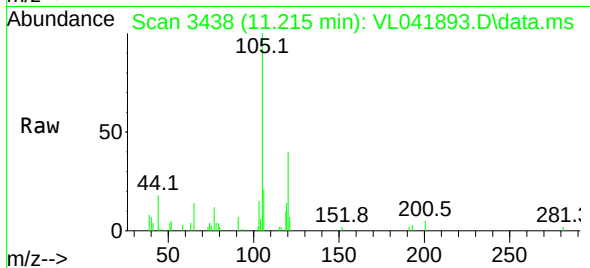




#73
 1,3,5-Trimethylbenzene
 Concen: 0.072 ppbv
 RT: 11.215 min Scan# 3438
 Delta R.T. 0.000 min
 Lab File: VL041893.D
 Acq: 14 Jan 2025 15:01

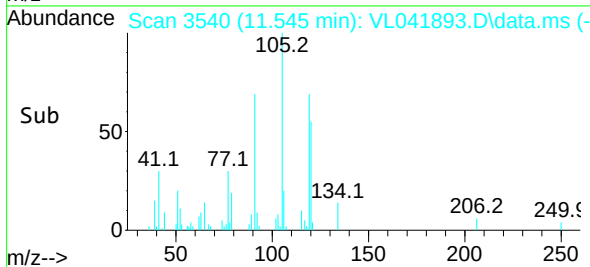
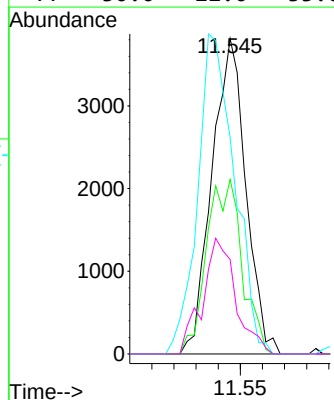
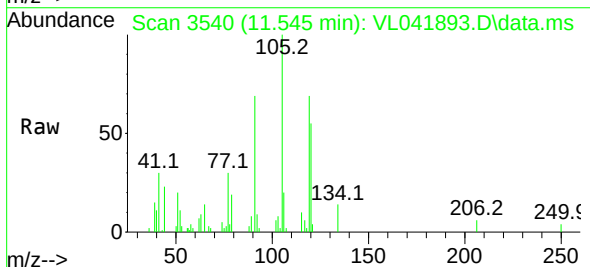
Instrument :
 MSVOA_L
 ClientSampleId :

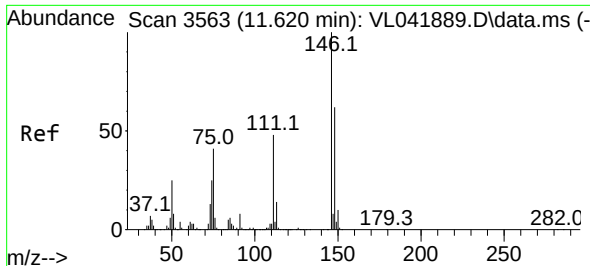
Tgt Ion:105 Resp: 3547
 Ion Ratio Lower Upper
 105 100
 120 38.9 35.4 53.2



#74
 1,2,4-Trimethylbenzene
 Concen: 0.077 ppbv
 RT: 11.545 min Scan# 3540
 Delta R.T. -0.003 min
 Lab File: VL041893.D
 Acq: 14 Jan 2025 15:01

Tgt Ion:105 Resp: 4062
 Ion Ratio Lower Upper
 105 100
 120 59.1 41.4 62.2
 91 68.7 60.2 90.2
 77 30.0 22.0 33.0

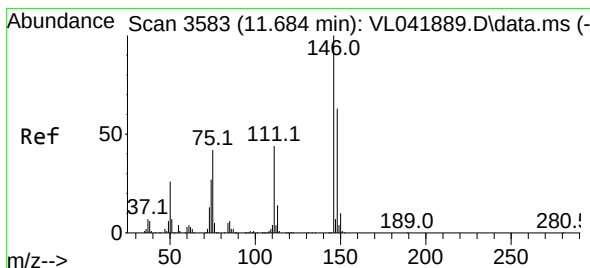
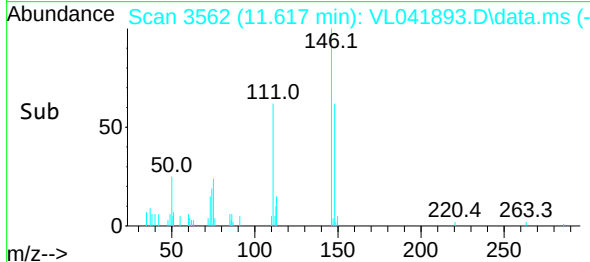
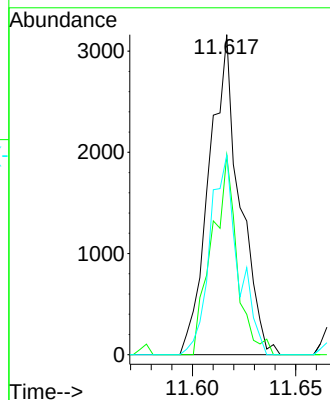
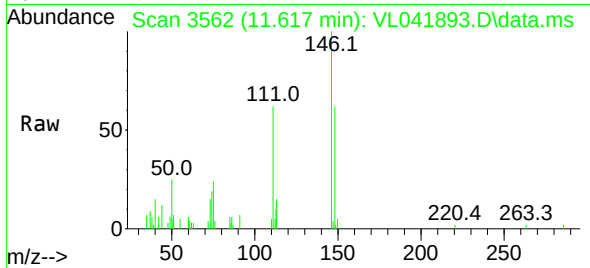




#75
1,3-Dichlorobenzene
Concen: 0.104 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. -0.003 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

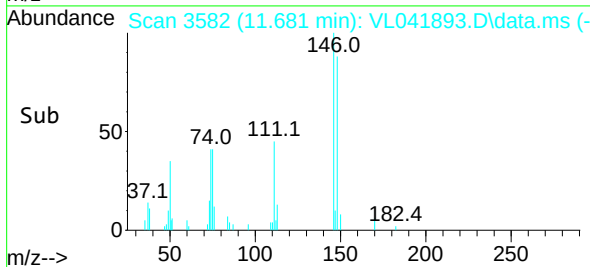
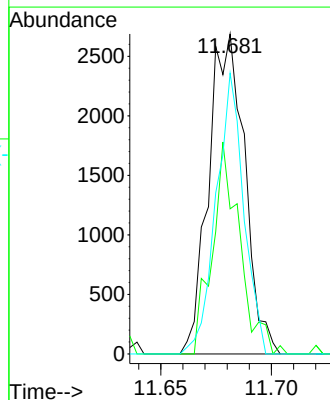
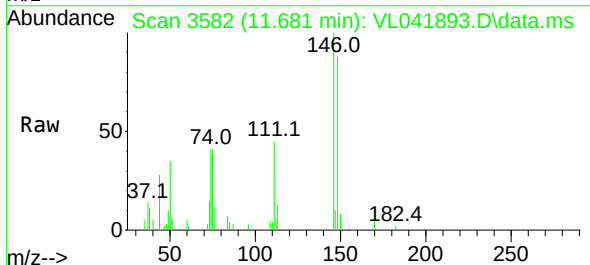
Instrument :
MSVOA_L
ClientSampleId :

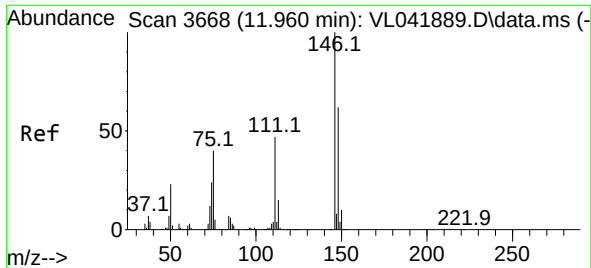
Tgt Ion:146 Resp: 3258
Ion Ratio Lower Upper
146 100
111 51.1 23.6 70.8
148 57.6 31.4 94.0



#76
1,4-Dichlorobenzene
Concen: 0.099 ppbv
RT: 11.681 min Scan# 3582
Delta R.T. -0.003 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

Tgt Ion:146 Resp: 3041
Ion Ratio Lower Upper
146 100
111 51.0 22.4 67.0
148 67.2 31.9 95.5

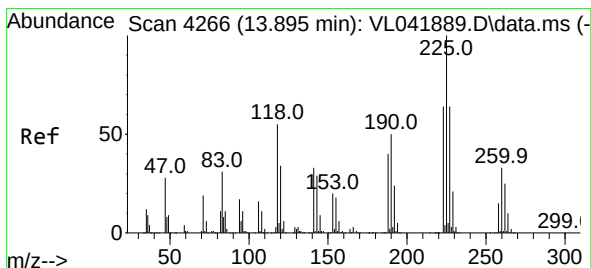
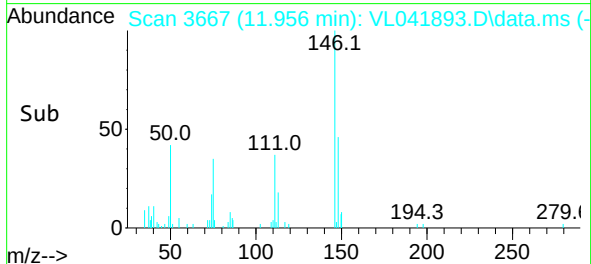
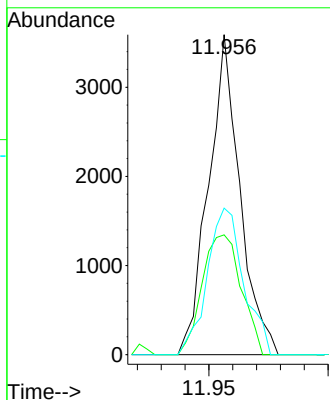
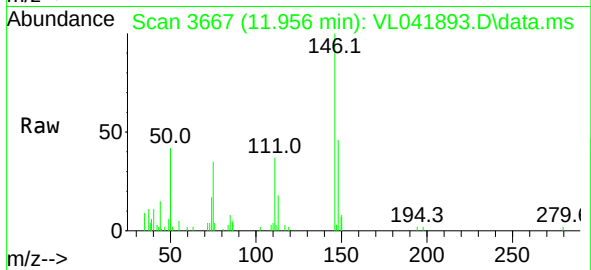




#77
 1,2-Dichlorobenzene
 Concen: 0.105 ppbv
 RT: 11.956 min Scan# 3667
 Delta R.T. -0.003 min
 Lab File: VL041893.D
 Acq: 14 Jan 2025 15:01

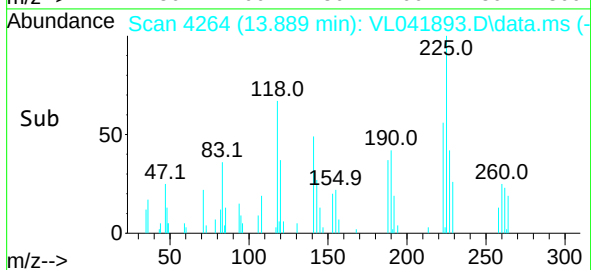
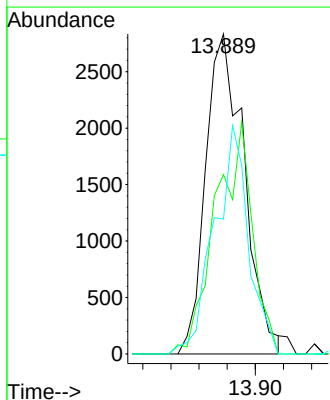
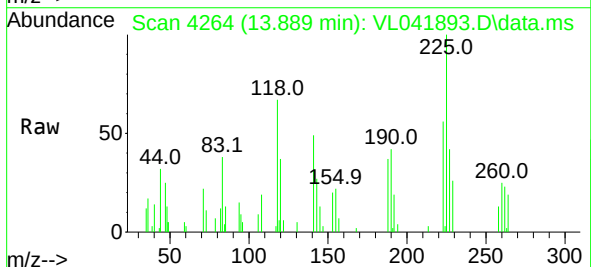
Instrument :
 MSVOA_L
 ClientSampleId :

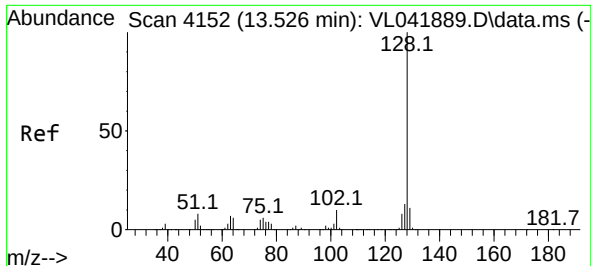
Tgt Ion:	146	Resp:	3282
Ion Ratio	Lower	Upper	
146	100		
111	47.8	24.2	72.6
148	53.2	31.7	95.1



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.105 ppbv
 RT: 13.889 min Scan# 4264
 Delta R.T. -0.006 min
 Lab File: VL041893.D
 Acq: 14 Jan 2025 15:01

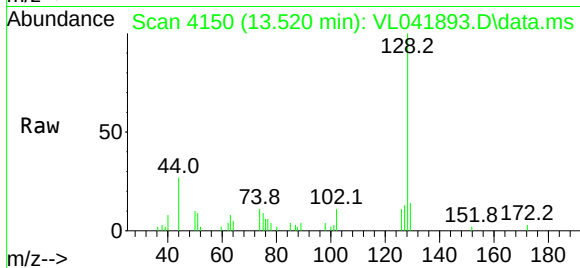
Tgt Ion:	225	Resp:	2686
Ion Ratio	Lower	Upper	
225	100		
223	69.8	50.8	76.2
227	63.0	50.3	75.5



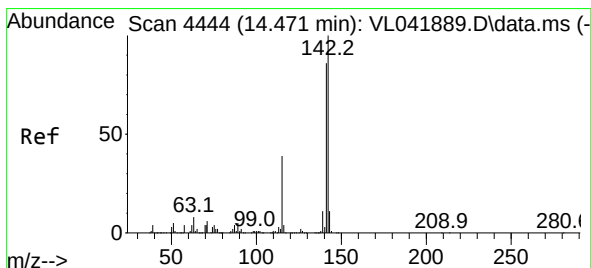
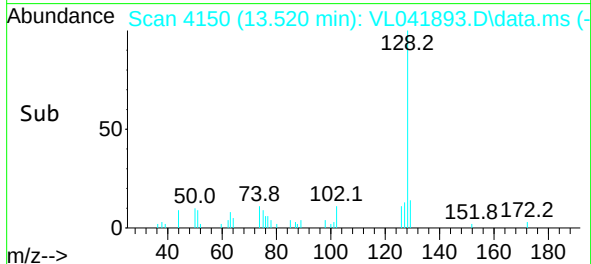
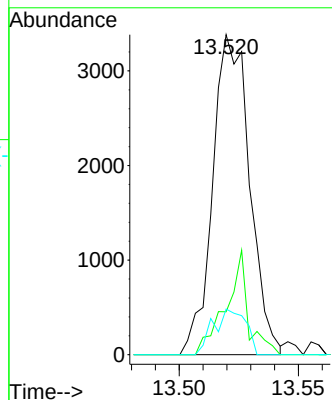


#79
Naphthalene
Concen: 0.068 ppbv
RT: 13.520 min Scan# 4152
Delta R.T. -0.006 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

Instrument :
MSVOA_L
ClientSampleId :

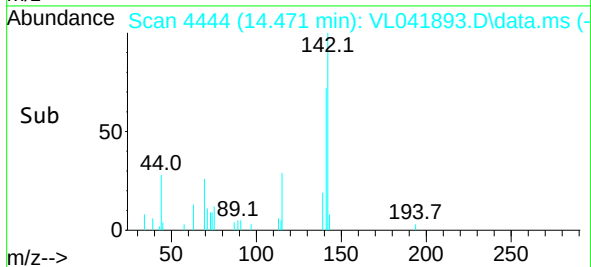
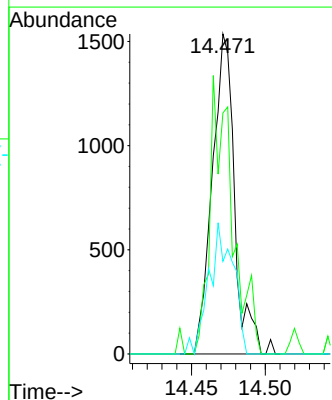
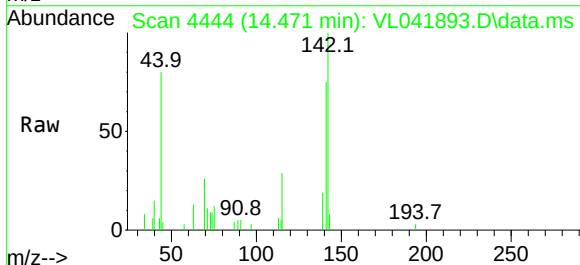


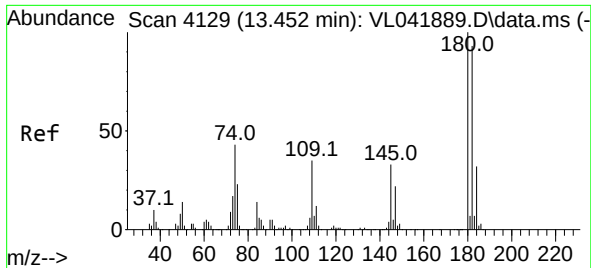
Tgt Ion:128 Resp: 3643
Ion Ratio Lower Upper
128 100
127 13.4 10.2 15.4
129 14.2 9.1 13.7#



#80
Naphthalene,2-methyl-
Concen: 0.064 ppbv
RT: 14.471 min Scan# 4444
Delta R.T. 0.000 min
Lab File: VL041893.D
Acq: 14 Jan 2025 15:01

Tgt Ion:142 Resp: 1617
Ion Ratio Lower Upper
142 100
141 89.1 68.1 102.1
115 44.4 31.7 47.5





#81

1,2,4-Trichlorobenzene

Concen: 0.098 ppbv

RT: 13.448 min Scan# 41

Delta R.T. -0.003 min

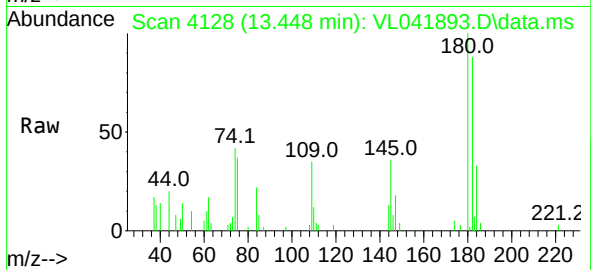
Lab File: VL041893.D

Acq: 14 Jan 2025 15:01

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:180 Resp: 2545

Ion Ratio Lower Upper

180 100

182 106.7 77.0 115.6

184 40.0 24.9 37.3#

