

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
 Data File : VL041934.D
 Acq On : 20 Jan 2025 23:30
 Operator : SY/MD
 Sample : MDL 0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 21 05:08:40 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	2.777	49	132028	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.946	114	375060	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.869	117	321701	10.000	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	250881	9.901	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.000%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	2056	0.114	ppbv	100
3) Chlorodifluoromethane	1.470	51	2491	0.132	ppbv	99
4) Chloromethane	1.528	50	825	0.122	ppbv #	87
5) Vinyl Chloride	1.573	62	890	0.130	ppbv #	70
6) Bromomethane	1.661	94	561	0.172	ppbv #	63
7) Chloroethane	1.696	64	391	0.147	ppbv #	79
8) Dichlorotetrafluoroethane	1.551	85	1706	0.109	ppbv	85
9) Propene	1.593	41	509	0.066	ppbv	98
10) Heptane	4.965	43	805	0.039	ppbv #	27
11) Trichlorofluoromethane	1.871	101	2260	0.121	ppbv	85
12) 1,1,2-Trichlorotrifluo...	2.133	101	1538	0.105	ppbv	94
13) Ethanol	1.719	45	209	0.368	ppbv #	31
14) Bromoethene	1.777	108	563	0.105	ppbv #	74
15) Acetone	1.832	43	2963	0.187	ppbv #	87
16) 1,3-Butadiene	1.606	39	1134	0.159	ppbv	100
17) tert-Butyl alcohol	2.039	59	1849	0.095	ppbv #	90
18) 1,1-Dichloroethene	2.026	96	835	0.126	ppbv #	66
19) Isopropyl Alcohol	1.884	45	1514	0.161	ppbv #	42
20) Methylene Chloride	2.056	84	1512	0.241	ppbv #	77
21) Allyl Chloride	2.091	41	1348	0.123	ppbv #	60
22) trans-1,2-Dichloroethene	2.334	96	920	0.123	ppbv #	71
23) Vinyl Acetate	2.450	43	846	0.108	ppbv #	56
24) 1,1-Dichloroethane	2.399	63	1725	0.120	ppbv	97
26) Hexane	2.819	57	1551	0.092	ppbv #	79
27) Carbon Disulfide	2.143	76	1603	0.096	ppbv #	1
28) Methyl tert-Butyl Ether	2.438	73	1222	0.095	ppbv	100
29) Chloroform	2.845	83	1447	0.054	ppbv	97
30) Cyclohexane	3.839	84	475	0.032	ppbv #	1
31) cis-1,2-Dichloroethene	2.716	61	1733	0.097	ppbv #	89
32) 1,1,1-Trichloroethane	3.357	97	2156	0.084	ppbv #	71
35) Carbon Tetrachloride	3.748	117	842	0.036	ppbv #	7
36) Benzene	3.645	78	3602	0.105	ppbv	96
37) 1,2-Dichloroethane	3.208	62	2502	0.130	ppbv	98
38) Trichloroethene	4.532	130	459	0.034	ppbv #	19
39) 1,2-Dichloropropane	3.946	63	94379	7.821	ppbv #	21
41) Tetrahydrofuran	3.065	42	695	0.054	ppbv #	41
43) Methyl Methacrylate	4.865	69	407	0.032	ppbv #	1
44) 2,2,4-Trimethylpentane	4.629	57	1698	0.031	ppbv #	1
48) Dibromochloromethane	7.373	129	1223	0.062	ppbv	57
49) Bromoform	9.464	173	926	0.057	ppbv #	30
51) 2-Hexanone	7.438	43	963	0.038	ppbv #	72
52) Tetrachloroethene	8.212	164	841	0.071	ppbv #	79
53) Toluene	6.914	91	1246	0.033	ppbv #	1

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 Misc : 400mL/MSVOA_L
 ALS Vial : 13 Sample Multiplier: 1

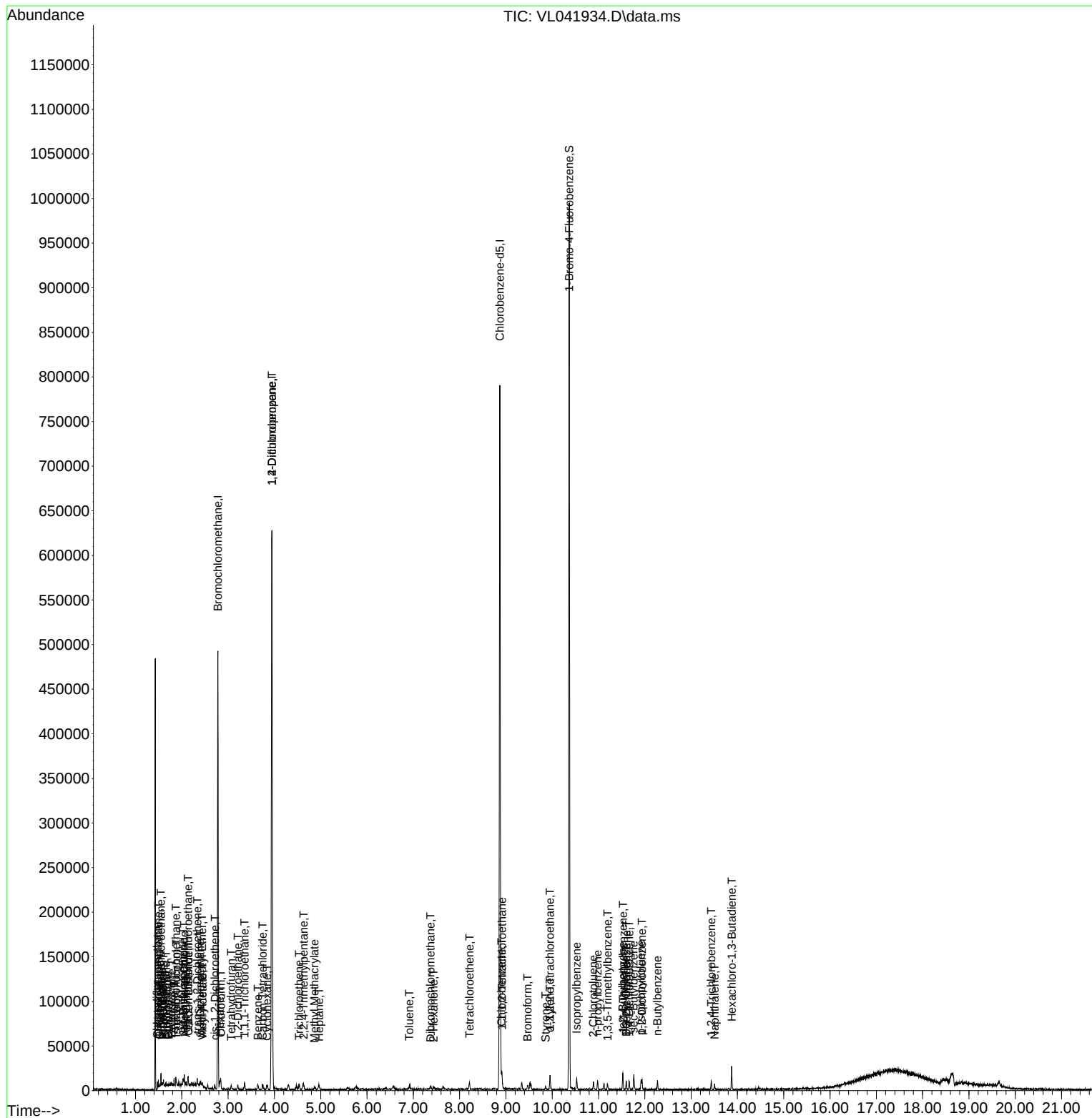
Instrument :
 MSVOA_L
 ClientSampleId :

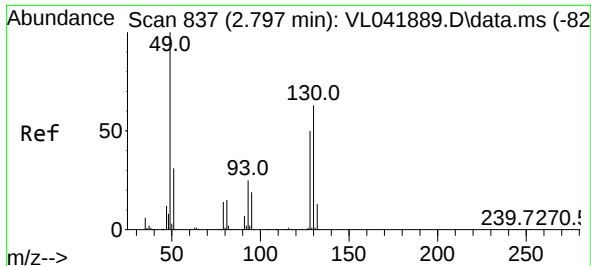
Quant Time: Jan 21 05:08:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
56) 1,1,1,2-Tetrachloroethane	8.917	131	596	0.037	ppbv	#	1
57) Chlorobenzene	8.908	112	3707	0.125	ppbv	#	69
60) o-Xylene	9.950	91	1474	0.037	ppbv	#	27
61) Styrene	9.856	104	815	0.045	ppbv	#	43
62) Isopropylbenzene	10.529	105	5186	0.084	ppbv		97
63) 1,1,2,2-Tetrachloroethane	9.953	83	3019	0.118	ppbv		96
64) n-propylbenzene	10.979	120	941	0.060	ppbv		73
65) tert-Butylbenzene	11.520	119	3130	0.055	ppbv		98
66) Benzyl Chloride	11.597	91	129	0.037	ppbv	#	64
67) sec-Butylbenzene	11.759	105	4561	0.059	ppbv		100
69) p-Isopropyltoluene	11.918	119	3352	0.052	ppbv		94
70) n-Butylbenzene	12.274	91	3236	0.051	ppbv		95
71) 2-Chlorotoluene	10.888	91	2010	0.044	ppbv	#	45
73) 1,3,5-Trimethylbenzene	11.199	105	2452	0.058	ppbv		95
74) 1,2,4-Trimethylbenzene	11.529	105	2672	0.058	ppbv	#	84
75) 1,3-Dichlorobenzene	11.600	146	2000	0.074	ppbv		88
76) 1,4-Dichlorobenzene	11.662	146	2190	0.083	ppbv		91
77) 1,2-Dichlorobenzene	11.940	146	2552	0.095	ppbv		93
78) Hexachloro-1,3-Butadiene	13.876	225	2193	0.099	ppbv		95
79) Naphthalene	13.507	128	2222	0.048	ppbv	#	91
81) 1,2,4-Trichlorobenzene	13.436	180	1605	0.071	ppbv		98

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

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

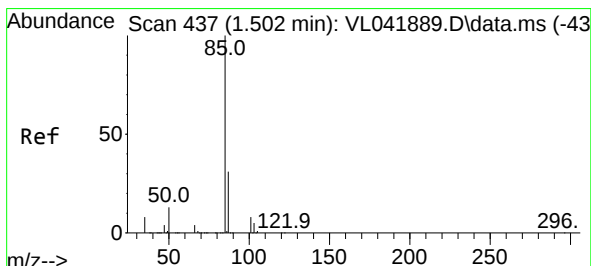
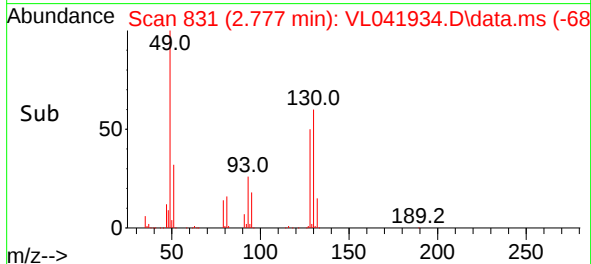
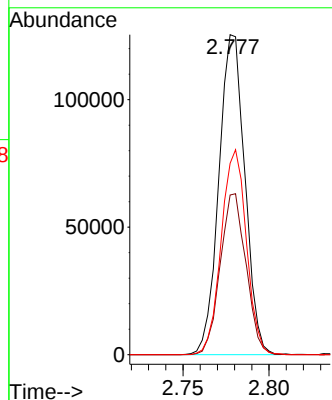
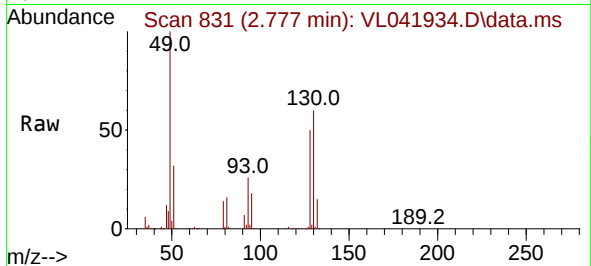




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 81
Delta R.T. -0.020 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30

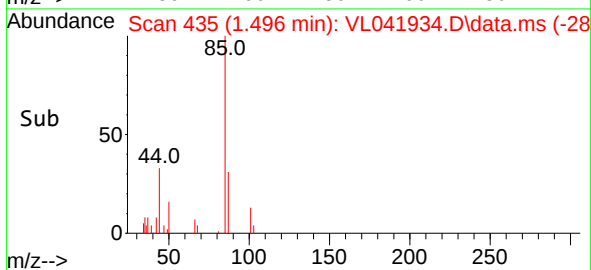
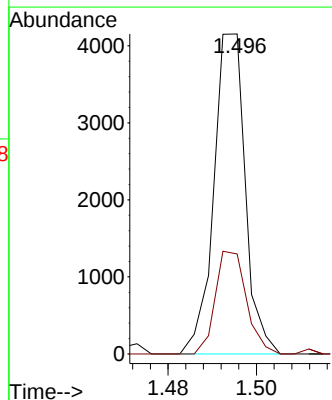
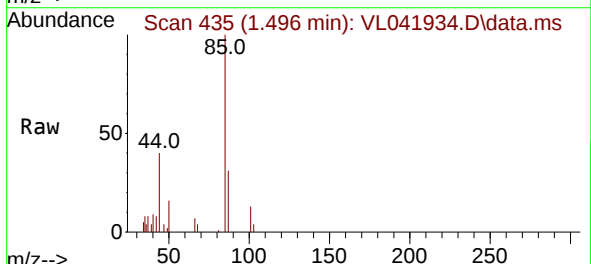
Instrument :
MSVOA_L
ClientSampleId :

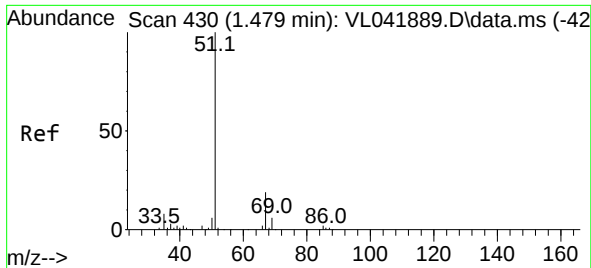
Tgt Ion: 49 Resp: 132028
Ion Ratio Lower Upper
49 100
128 49.8 24.3 73.0
130 61.9 31.1 93.2



#2
Dichlorodifluoromethane
Concen: 0.114 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.006 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30

Tgt Ion: 85 Resp: 2056
Ion Ratio Lower Upper
85 100
87 31.2 24.9 37.3

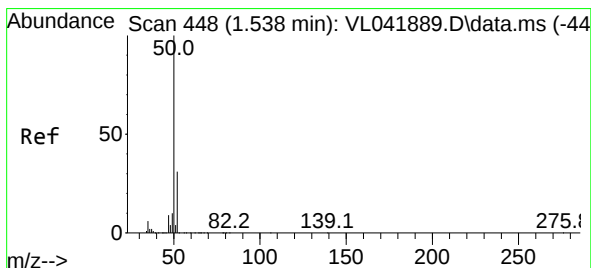
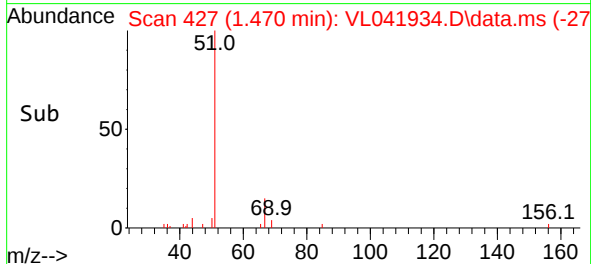
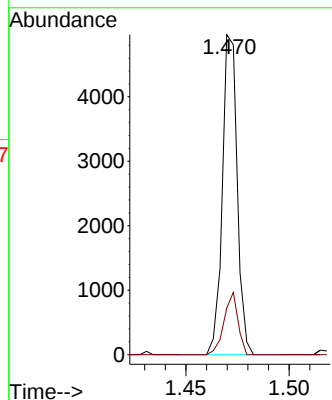
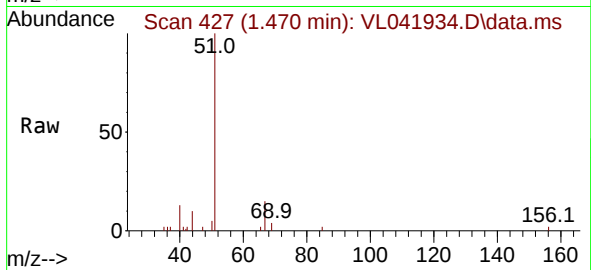




#3
Chlorodifluoromethane
Concen: 0.132 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30

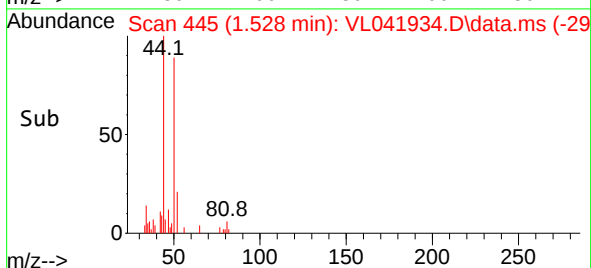
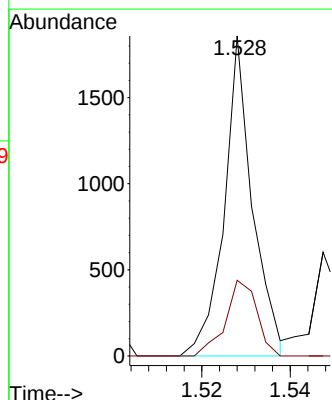
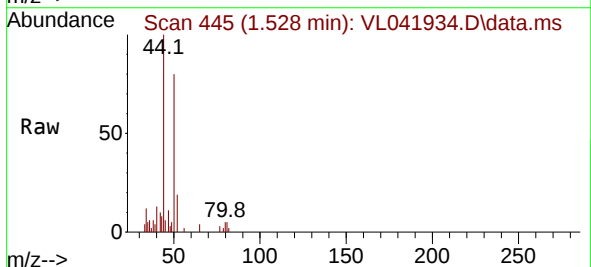
Instrument :
MSVOA_L
ClientSampleId :

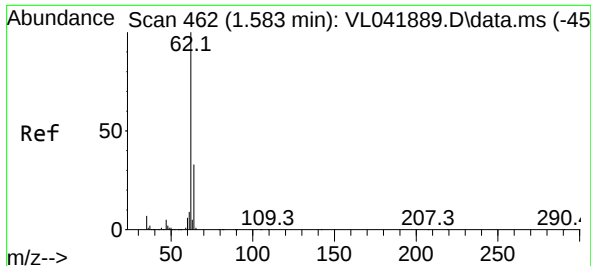
Tgt Ion: 51 Resp: 2491
Ion Ratio Lower Upper
51 100
67 18.1 15.0 22.4



#4
Chloromethane
Concen: 0.122 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.010 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30

Tgt Ion: 50 Resp: 825
Ion Ratio Lower Upper
50 100
52 23.6 24.6 36.8#

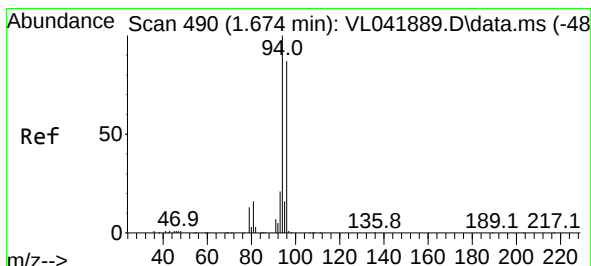
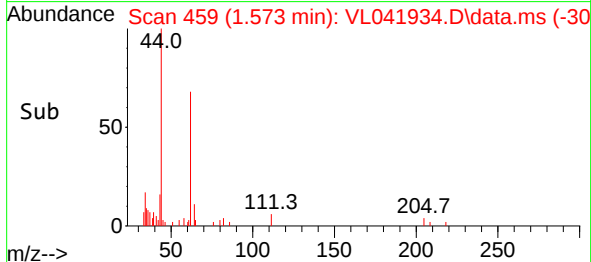
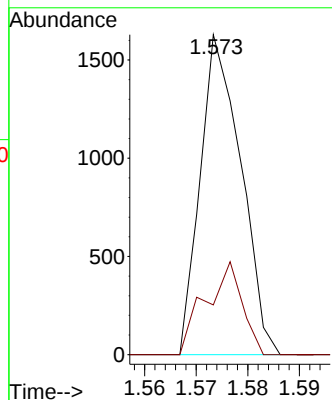
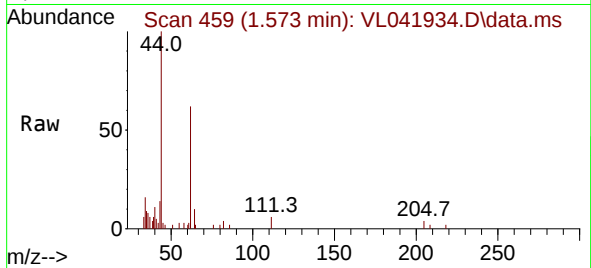




#5
 Vinyl Chloride
 Concen: 0.130 ppbv
 RT: 1.573 min Scan# 411
 Delta R.T. -0.010 min
 Lab File: VL041934.D
 Acq: 20 Jan 2025 23:30

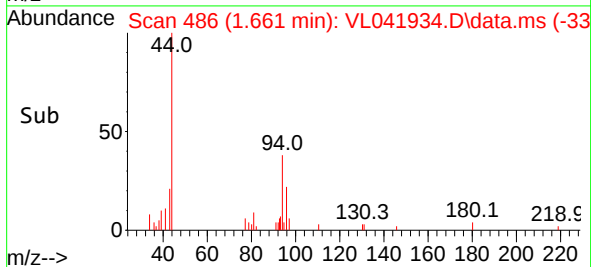
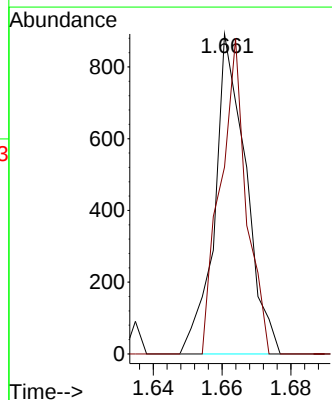
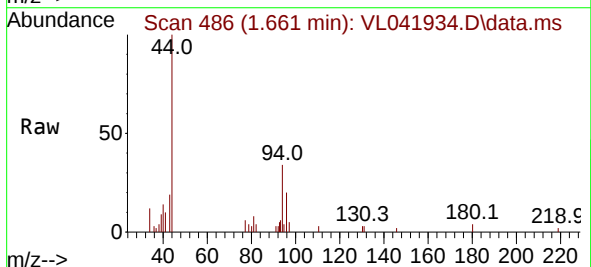
Instrument :
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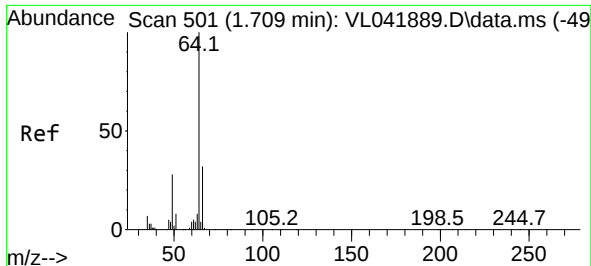
Tgt Ion: 62 Resp: 890
 Ion Ratio Lower Upper
 62 100
 64 15.5 26.1 39.1#



#6
 Bromomethane
 Concen: 0.172 ppbv
 RT: 1.661 min Scan# 486
 Delta R.T. -0.013 min
 Lab File: VL041934.D
 Acq: 20 Jan 2025 23:30

Tgt Ion: 94 Resp: 561
 Ion Ratio Lower Upper
 94 100
 96 52.5 69.5 104.3#

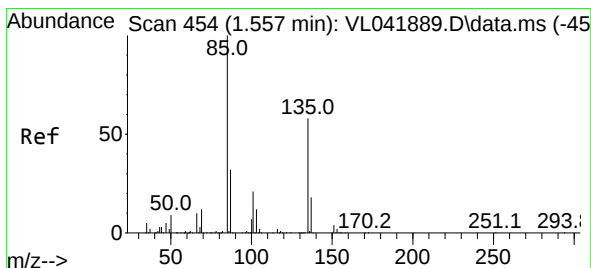
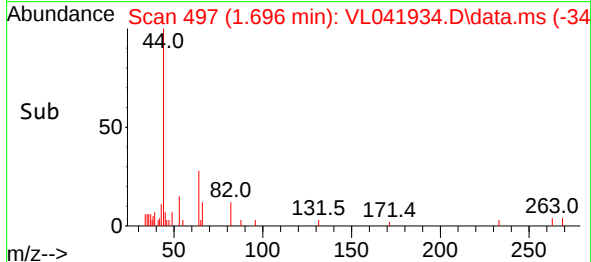
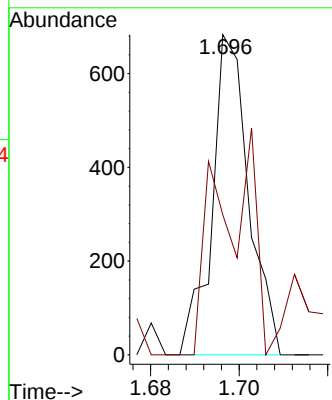
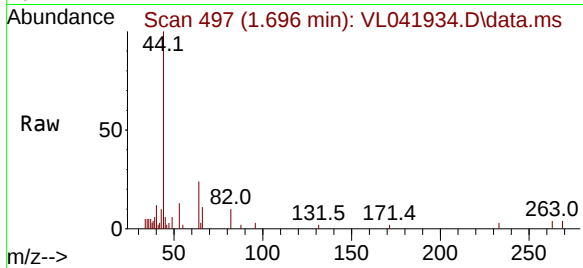




#7
Chloroethane
Concen: 0.147 ppbv
RT: 1.696 min Scan# 497
Delta R.T. -0.013 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30

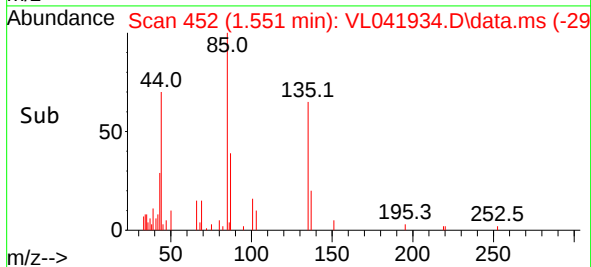
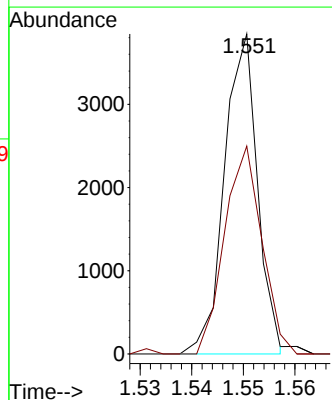
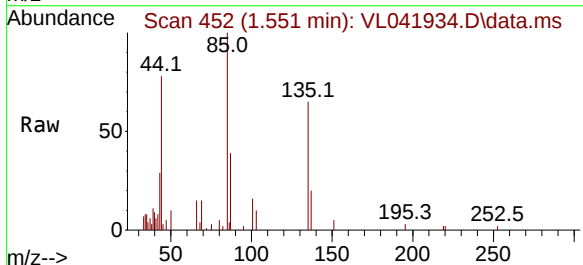
Instrument :
MSVOA_L
ClientSampleId :

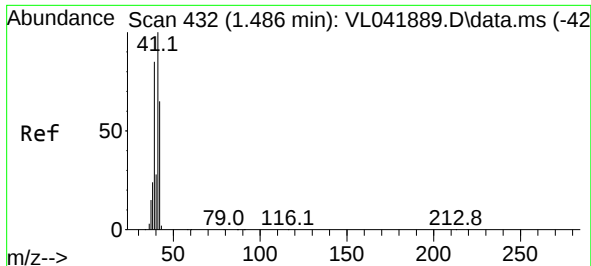
Tgt Ion: 64 Resp: 391
Ion Ratio Lower Upper
64 100
66 43.8 25.7 38.5#



#8
Dichlorotetrafluoroethane
Concen: 0.109 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.006 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30

Tgt Ion: 85 Resp: 1706
Ion Ratio Lower Upper
85 100
135 74.1 50.0 75.0





#9

Propene

Concen: 0.066 ppbv

RT: 1.593 min Scan# 41

Delta R.T. 0.107 min

Lab File: VL041934.D

Acq: 20 Jan 2025 23:30

Instrument :

MSVOA_L

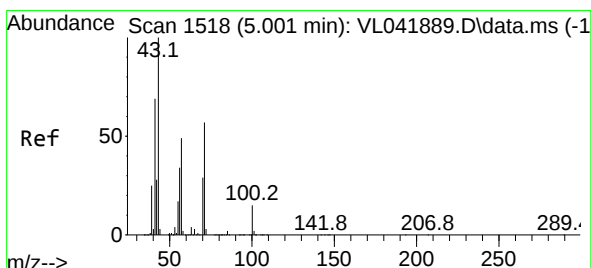
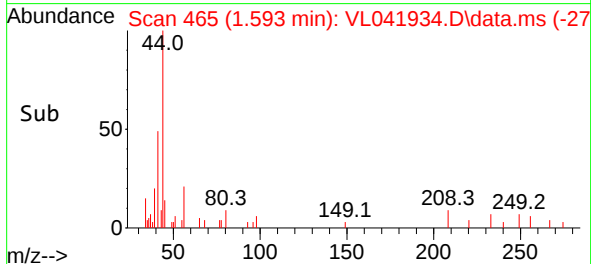
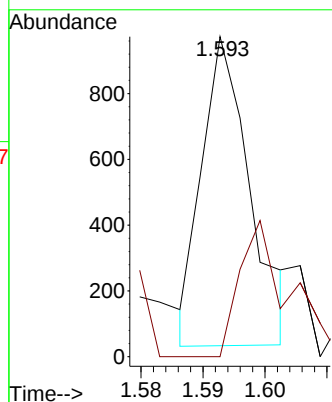
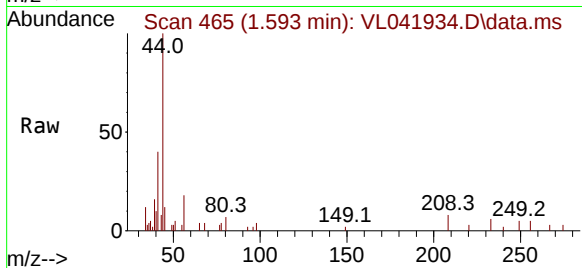
ClientSampleId :

Tgt Ion: 41 Resp: 509

Ion Ratio Lower Upper

41 100

42 63.5 52.0 78.0



#10

Heptane

Concen: 0.039 ppbv

RT: 4.965 min Scan# 1507

Delta R.T. -0.035 min

Lab File: VL041934.D

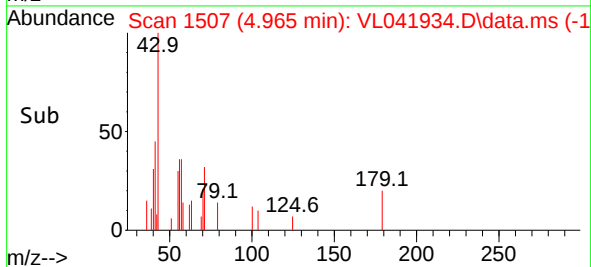
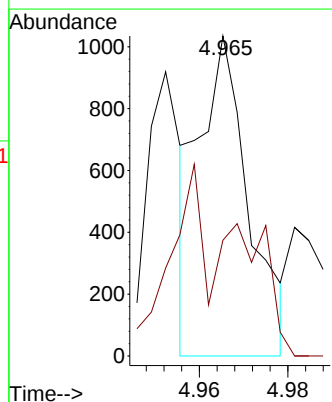
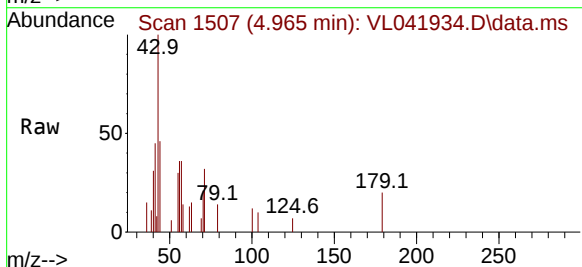
Acq: 20 Jan 2025 23:30

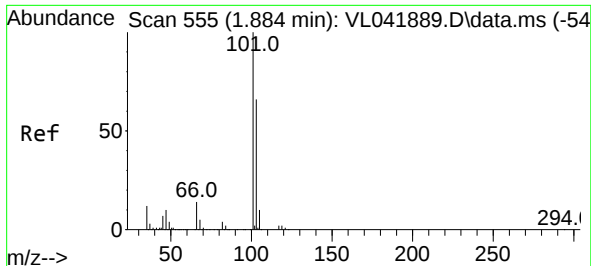
Tgt Ion: 43 Resp: 805

Ion Ratio Lower Upper

43 100

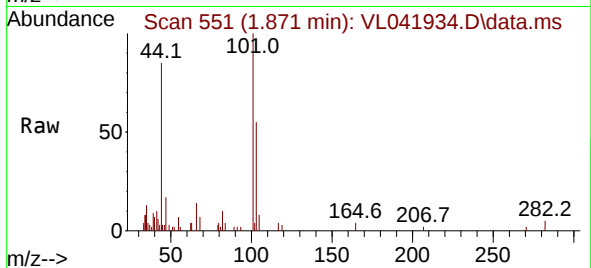
57 0.0 41.0 61.4#



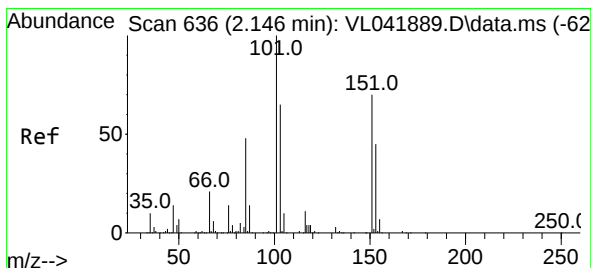
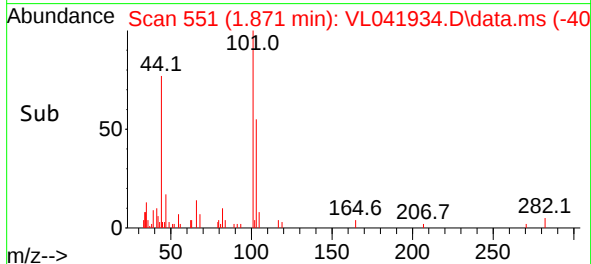
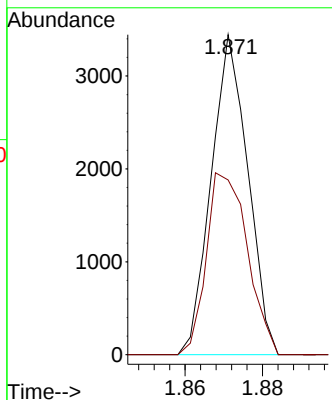


#11
 Trichlorofluoromethane
 Concen: 0.121 ppbv
 RT: 1.871 min Scan# 511
 Delta R.T. -0.013 min
 Lab File: VL041934.D
 Acq: 20 Jan 2025 23:30

Instrument :
 MSVOA_L
 ClientSampleId :

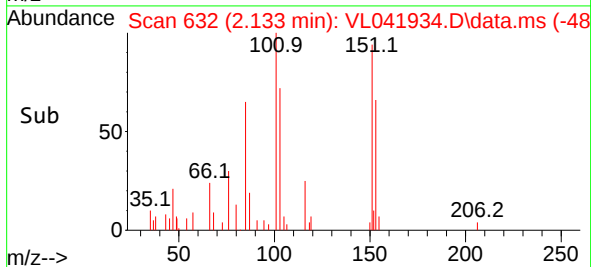
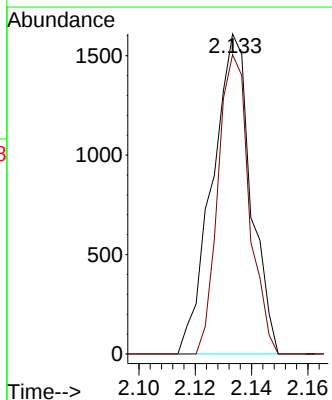
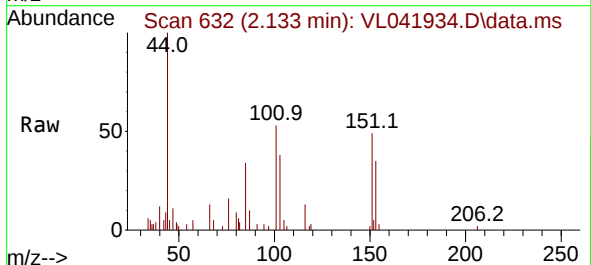


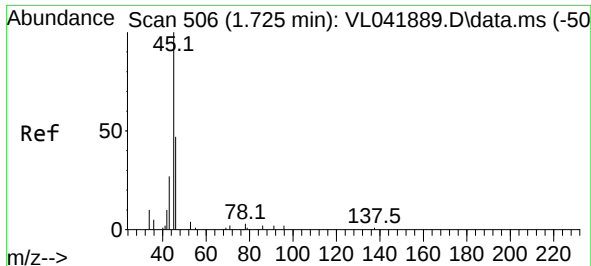
Tgt Ion:101 Resp: 2260
 Ion Ratio Lower Upper
 101 100
 103 54.6 53.1 79.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.105 ppbv
 RT: 2.133 min Scan# 632
 Delta R.T. -0.013 min
 Lab File: VL041934.D
 Acq: 20 Jan 2025 23:30

Tgt Ion:101 Resp: 1538
 Ion Ratio Lower Upper
 101 100
 151 75.1 56.1 84.1

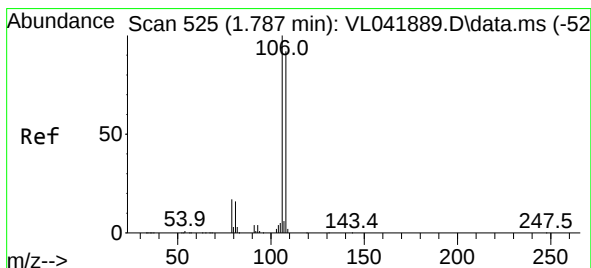
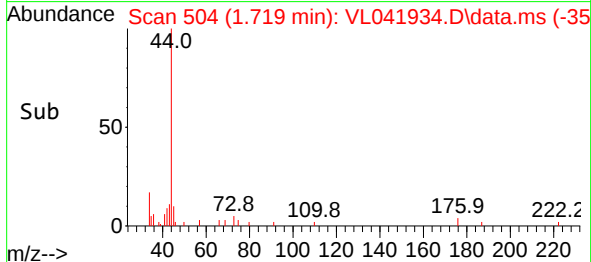
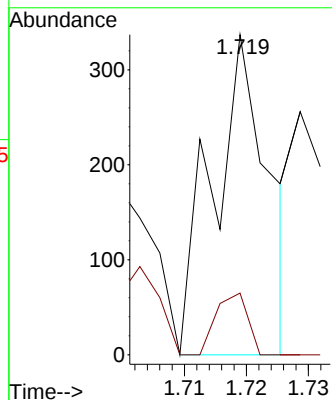
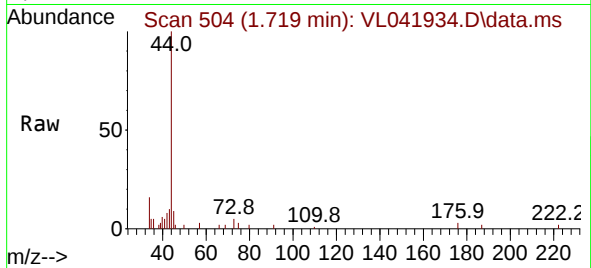




#13
Ethanol
Concen: 0.368 ppbv
RT: 1.719 min Scan# 506
Delta R.T. -0.006 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30

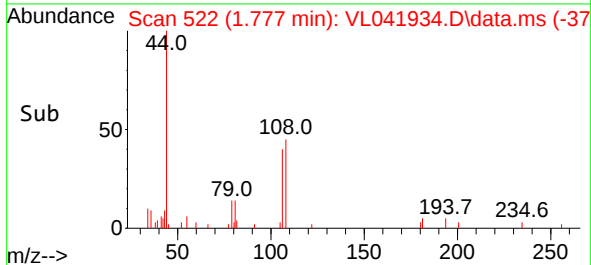
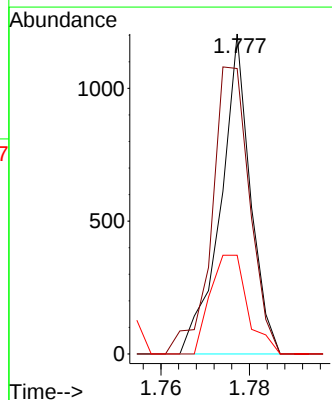
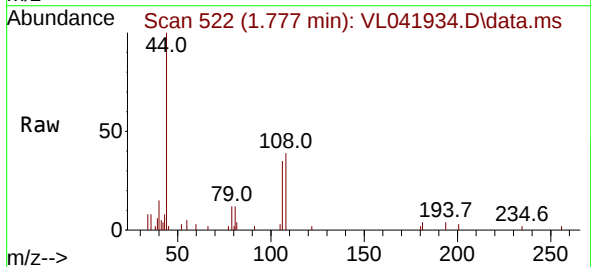
Instrument :
MSVOA_L
ClientSampleId :

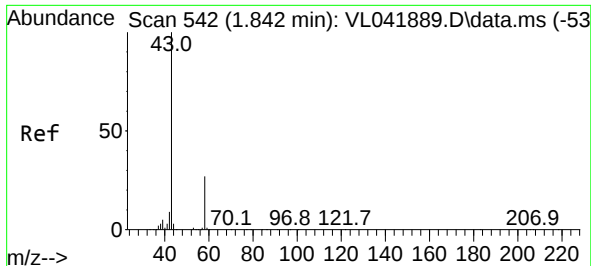
Tgt Ion: 45 Resp: 209
Ion Ratio Lower Upper
45 100
46 0.0 18.1 72.5#



#14
Bromoethene
Concen: 0.105 ppbv
RT: 1.777 min Scan# 522
Delta R.T. -0.010 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30

Tgt Ion: 108 Resp: 563
Ion Ratio Lower Upper
108 100
106 122.2 85.5 128.3
79 59.7 15.3 22.9#

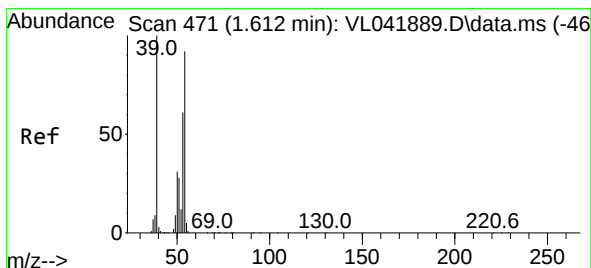
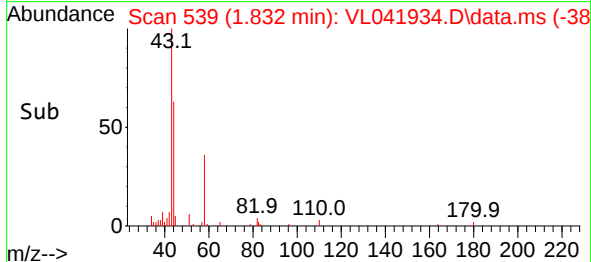
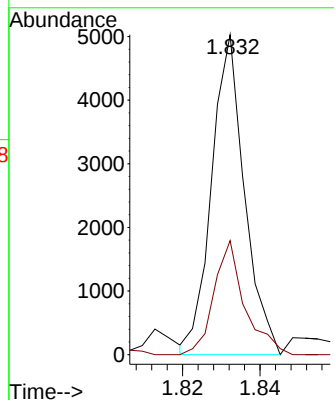
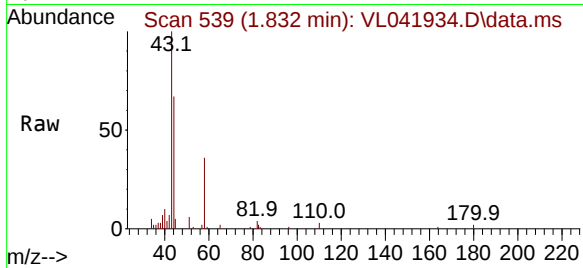




#15
Acetone
Concen: 0.187 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.010 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30

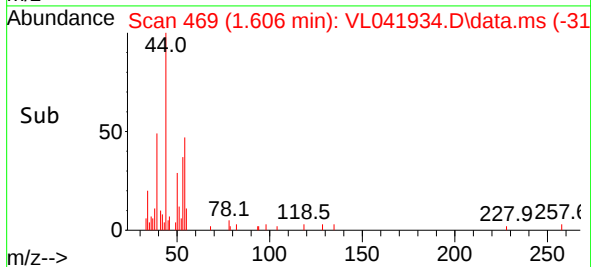
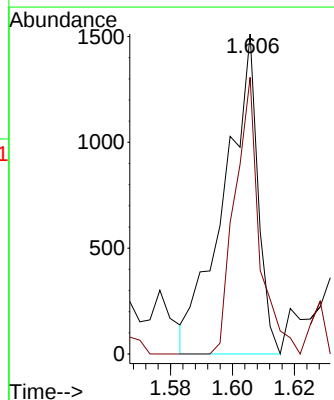
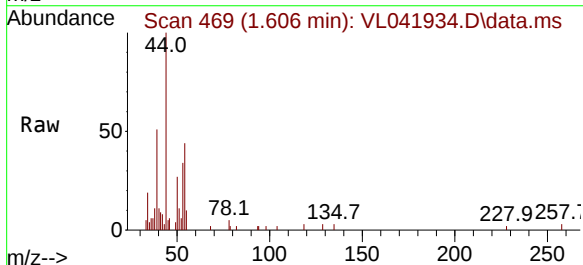
Instrument :
MSVOA_L
ClientSampleId :

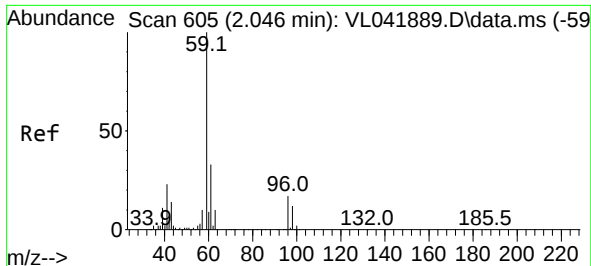
Tgt Ion: 43 Resp: 2963
Ion Ratio Lower Upper
43 100
58 34.2 21.9 32.9#



#16
1,3-Butadiene
Concen: 0.159 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.006 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30

Tgt Ion: 39 Resp: 1134
Ion Ratio Lower Upper
39 100
54 77.1 61.6 92.4





#17

tert-Butyl alcohol

Concen: 0.095 ppbv

RT: 2.039 min Scan# 60

Delta R.T. -0.006 min

Lab File: VL041934.D

Acq: 20 Jan 2025 23:30

Instrument :

MSVOA_L

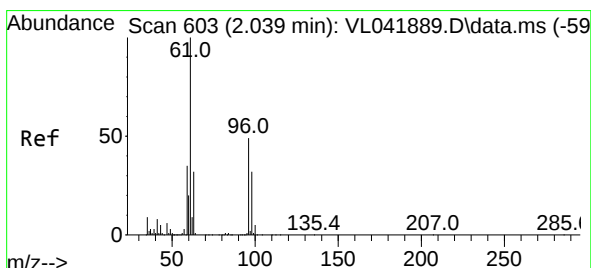
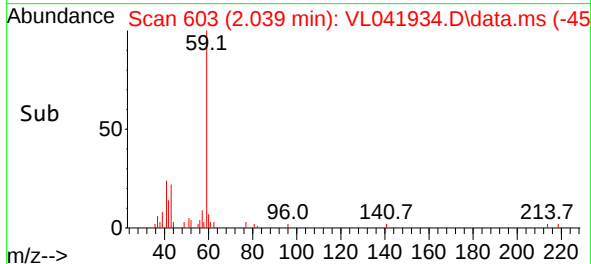
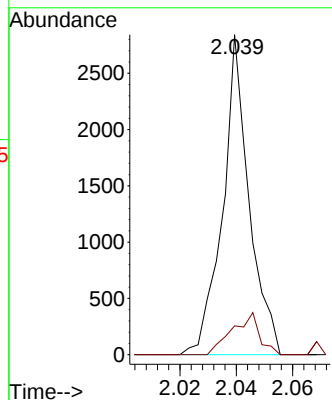
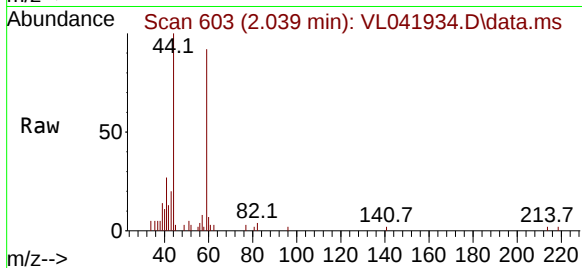
ClientSampleId :

Tgt Ion: 59 Resp: 1849

Ion Ratio Lower Upper

59 100

57 13.6 7.8 11.8#



#18

1,1-Dichloroethene

Concen: 0.126 ppbv

RT: 2.026 min Scan# 599

Delta R.T. -0.013 min

Lab File: VL041934.D

Acq: 20 Jan 2025 23:30

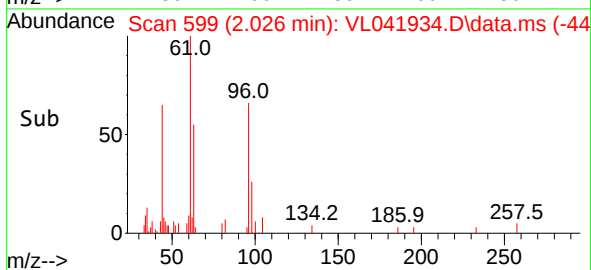
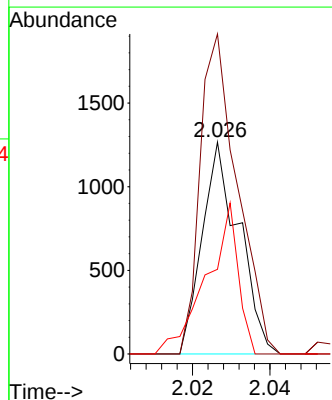
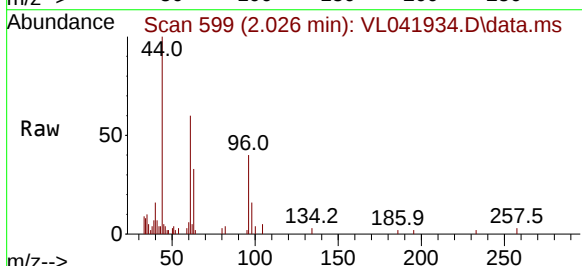
Tgt Ion: 96 Resp: 835

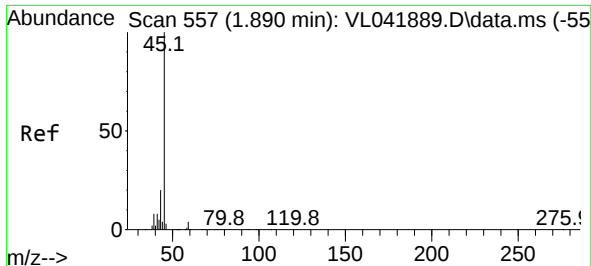
Ion Ratio Lower Upper

96 100

61 151.0 163.1 244.7#

98 39.9 52.7 79.1#

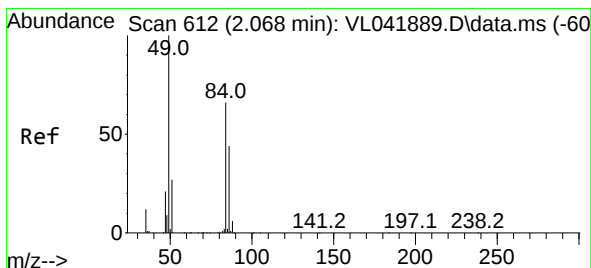
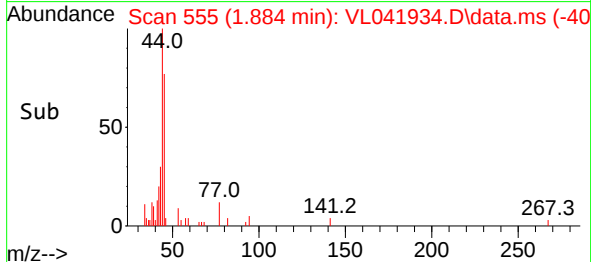
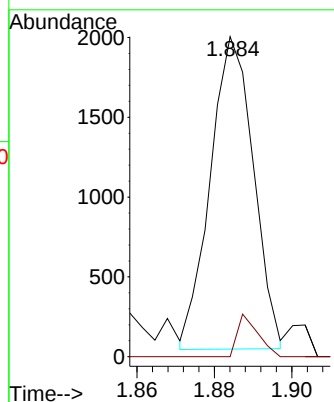
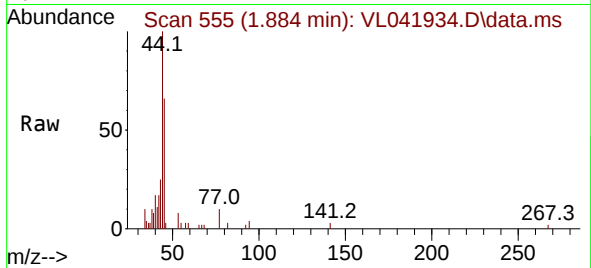




#19
Isopropyl Alcohol
Concen: 0.161 ppbv
RT: 1.884 min Scan# 511
Delta R.T. -0.006 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30

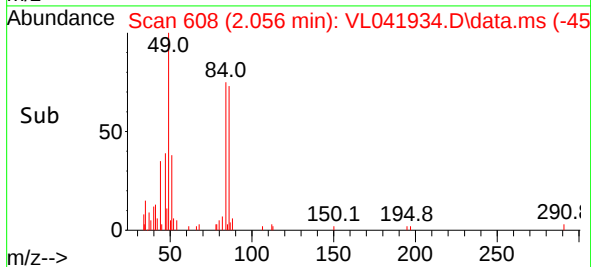
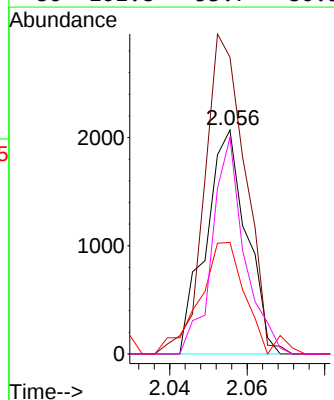
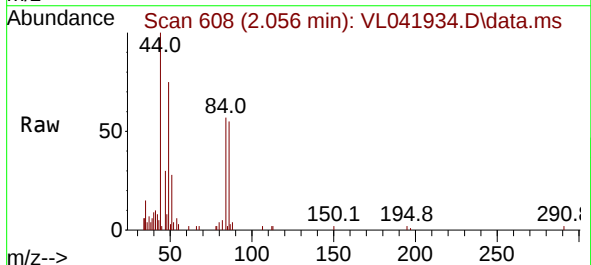
Instrument :
MSVOA_L
ClientSampleId :

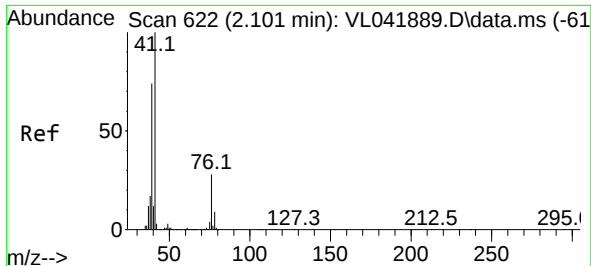
Tgt Ion: 45 Resp: 1514
Ion Ratio Lower Upper
45 100
58 6.5 35.0 52.6#



#20
Methylene Chloride
Concen: 0.241 ppbv
RT: 2.056 min Scan# 608
Delta R.T. -0.013 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30

Tgt Ion: 84 Resp: 1512
Ion Ratio Lower Upper
84 100
49 129.1 123.1 184.7
51 42.6 35.8 53.8
86 101.8 53.7 80.5#

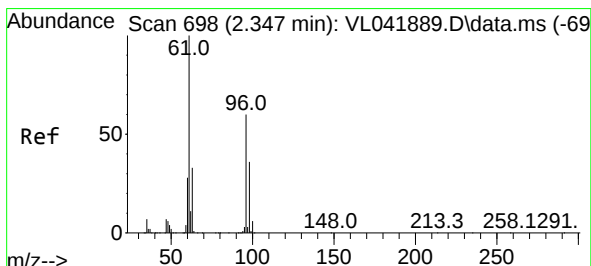
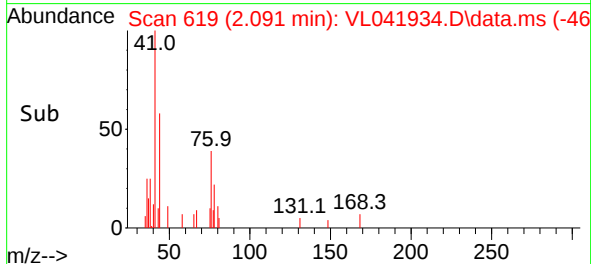
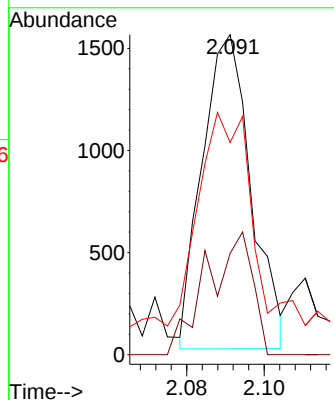
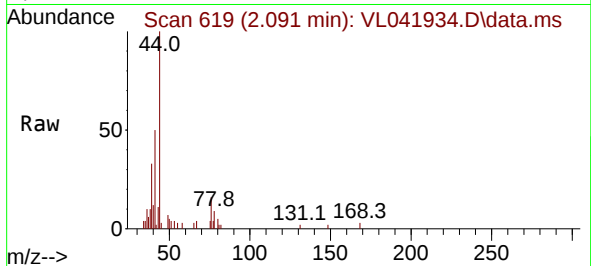




#21
 Allyl Chloride
 Concen: 0.123 ppbv
 RT: 2.091 min Scan# 619
 Delta R.T. -0.010 min
 Lab File: VL041934.D
 Acq: 20 Jan 2025 23:30

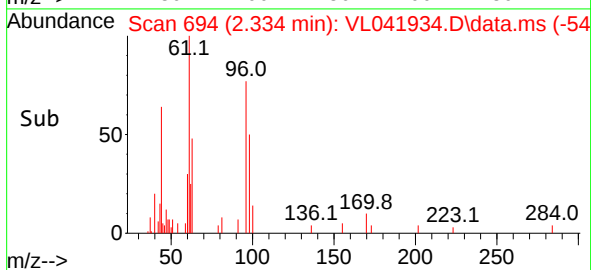
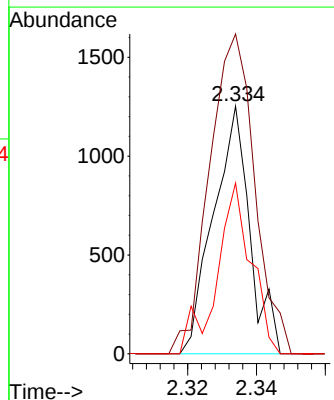
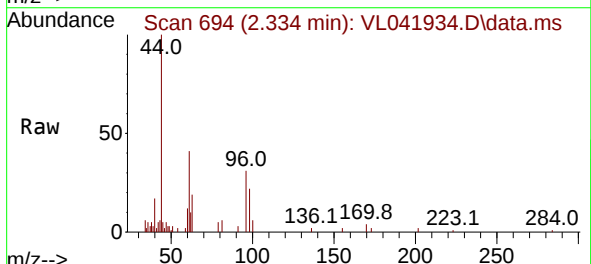
Instrument :
 MSVOA_L
 ClientSampleId :

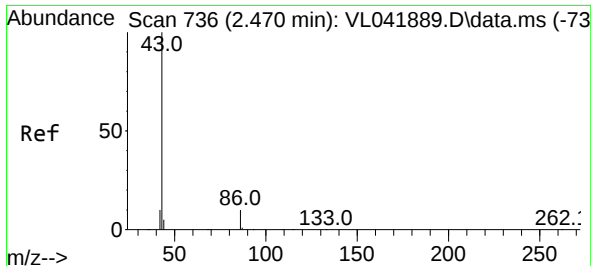
Tgt Ion: 41 Resp: 1348
 Ion Ratio Lower Upper
 41 100
 76 36.4 24.2 36.4#
 39 120.5 60.6 91.0#



#22
 trans-1,2-Dichloroethene
 Concen: 0.123 ppbv
 RT: 2.334 min Scan# 694
 Delta R.T. -0.013 min
 Lab File: VL041934.D
 Acq: 20 Jan 2025 23:30

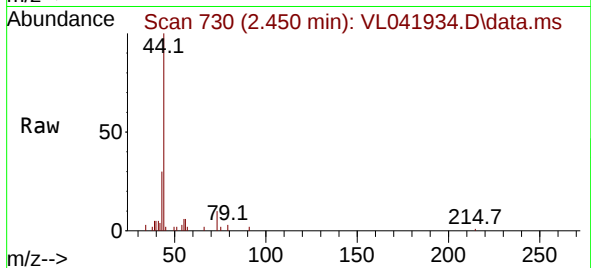
Tgt Ion: 96 Resp: 920
 Ion Ratio Lower Upper
 96 100
 61 119.8 134.5 201.7#
 98 69.0 48.9 73.3



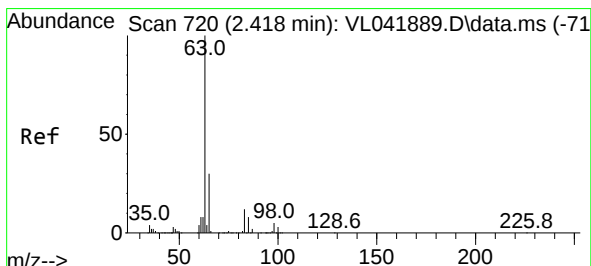
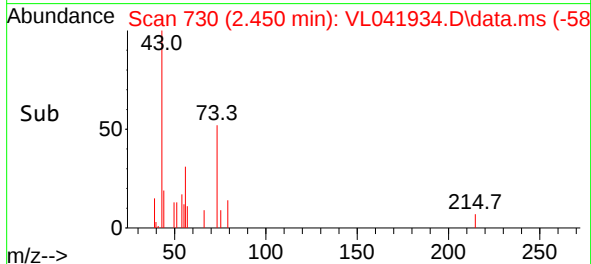
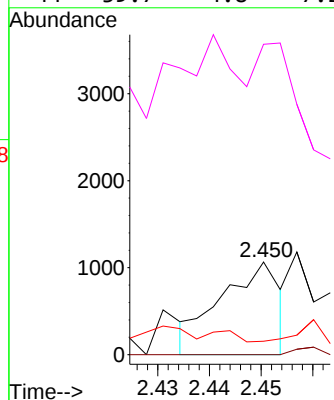


#23
 Vinyl Acetate
 Concen: 0.108 ppbv
 RT: 2.450 min Scan# 714
 Delta R.T. -0.019 min
 Lab File: VL041934.D
 Acq: 20 Jan 2025 23:30

Instrument :
 MSVOA_L
 ClientSampleId :

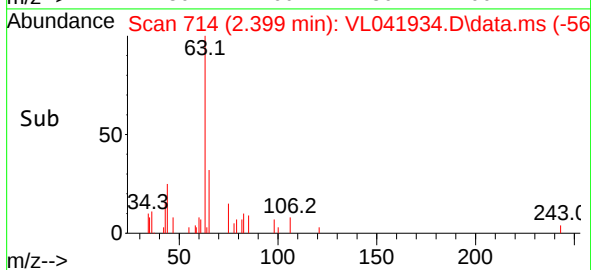
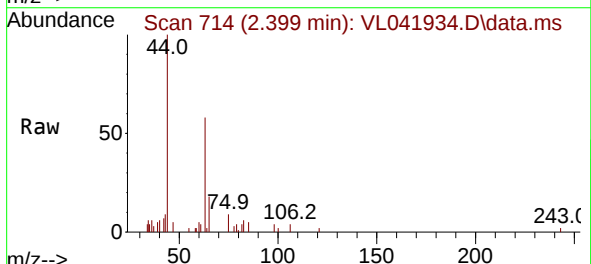
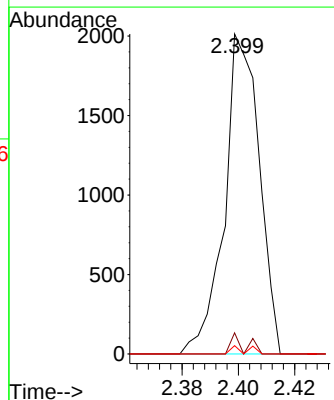


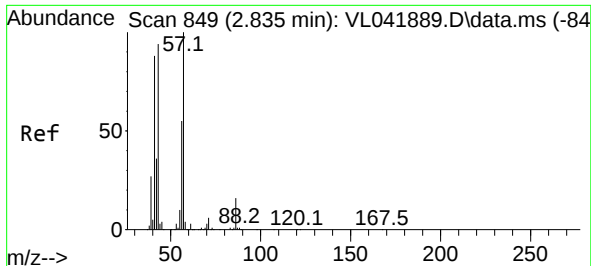
Tgt Ion: 43	Resp: 846
Ion Ratio	Lower Upper
43 100	
86 0.0	6.2 9.4#
42 0.0	8.5 12.7#
44 39.7	4.8 7.2#



#24
 1,1-Dichloroethane
 Concen: 0.120 ppbv
 RT: 2.399 min Scan# 714
 Delta R.T. -0.019 min
 Lab File: VL041934.D
 Acq: 20 Jan 2025 23:30

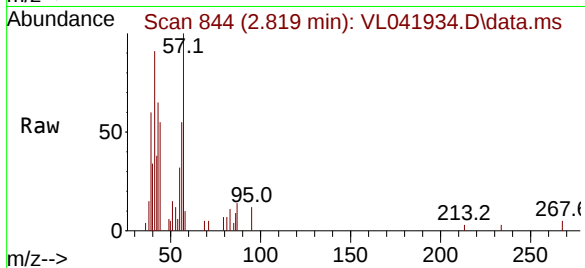
Tgt Ion: 63	Resp: 1725
Ion Ratio	Lower Upper
63 100	
98 6.6	2.6 7.8
100 2.6	1.4 4.2



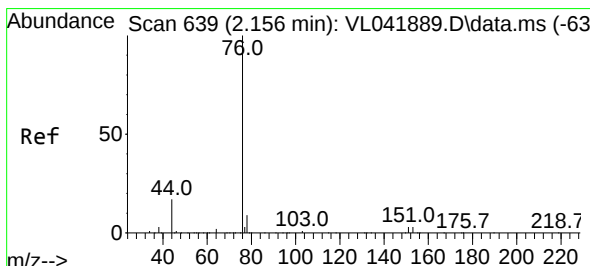
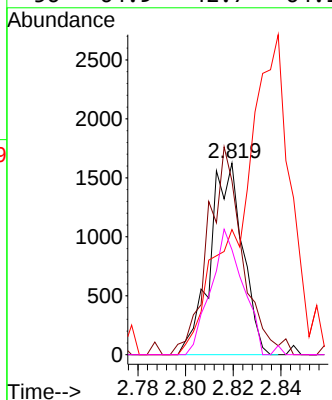
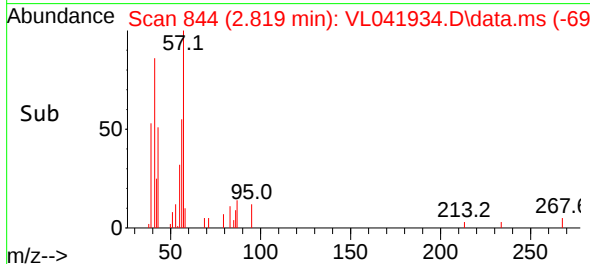


#26
Hexane
Concen: 0.092 ppbv
RT: 2.819 min Scan# 849
Delta R.T. -0.016 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30

Instrument :
MSVOA_L
ClientSampleId :

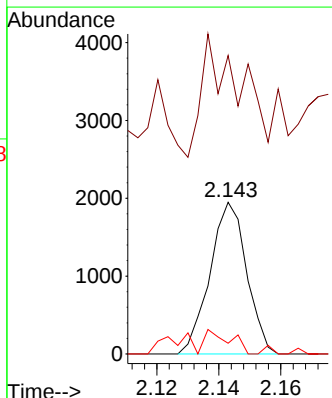
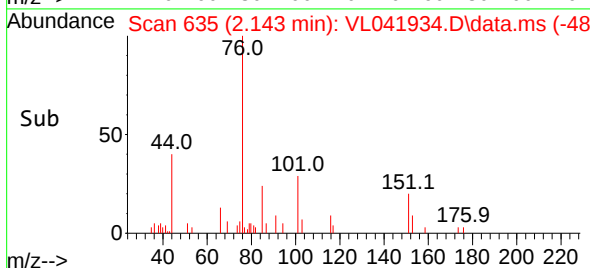
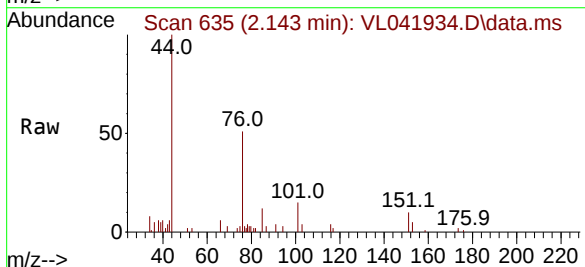


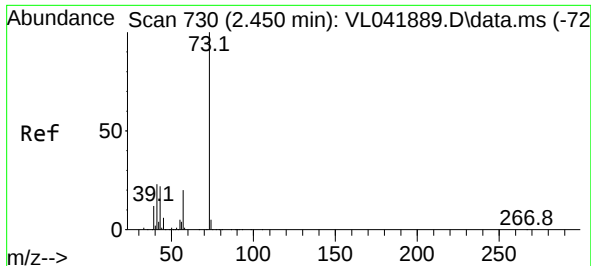
Tgt Ion:	57	Resp:	1551
Ion	Ratio	Lower	Upper
57	100		
41	117.4	73.8	110.8#
43	280.3	197.3	295.9
56	64.9	42.7	64.1#



#27
Carbon Disulfide
Concen: 0.096 ppbv
RT: 2.143 min Scan# 635
Delta R.T. -0.013 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30

Tgt Ion:	76	Resp:	1603
Ion	Ratio	Lower	Upper
76	100		
44	299.8	15.4	23.0#
78	21.7	9.3	13.9#

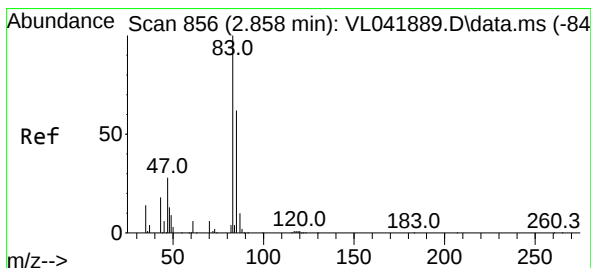
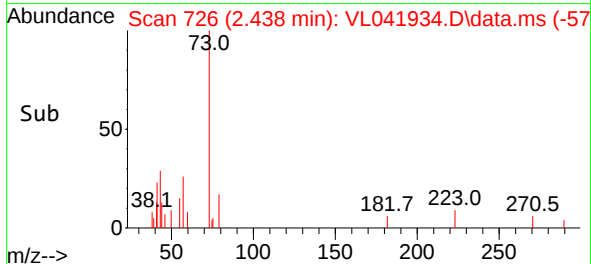
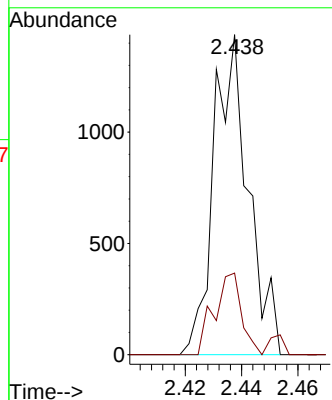
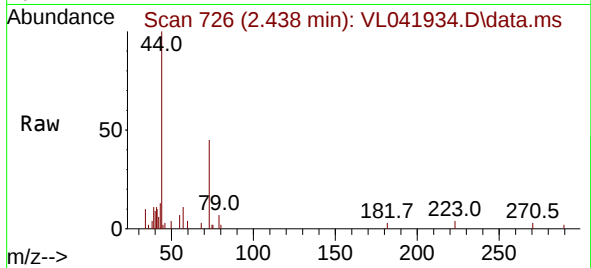




#28
Methyl tert-Butyl Ether
Concen: 0.095 ppbv
RT: 2.438 min Scan# 71
Delta R.T. -0.013 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30

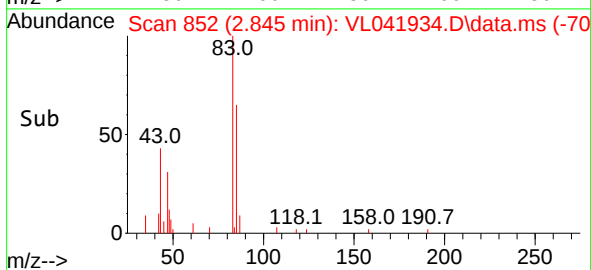
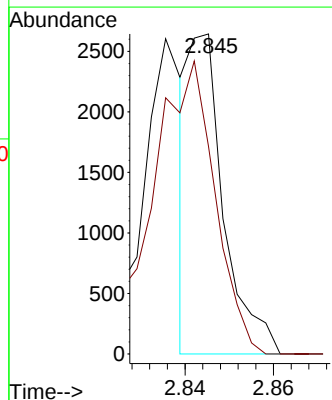
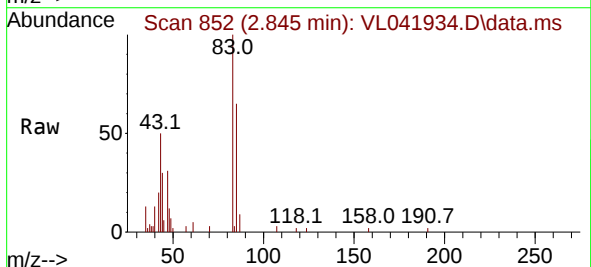
Instrument :
MSVOA_L
ClientSampleId :

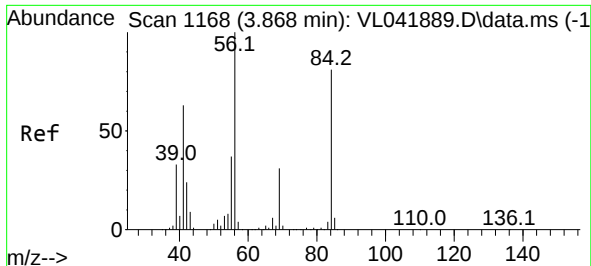
Tgt Ion: 73 Resp: 1222
Ion Ratio Lower Upper
73 100
57 22.7 18.1 27.1



#29
Chloroform
Concen: 0.054 ppbv
RT: 2.845 min Scan# 852
Delta R.T. -0.013 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30

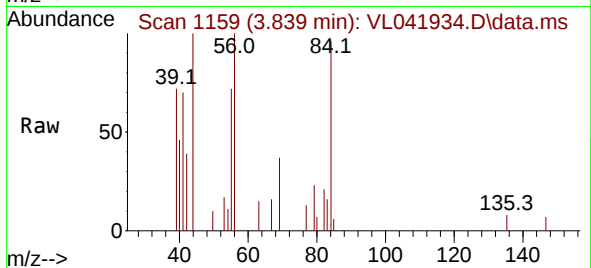
Tgt Ion: 83 Resp: 1447
Ion Ratio Lower Upper
83 100
85 64.9 50.1 75.1



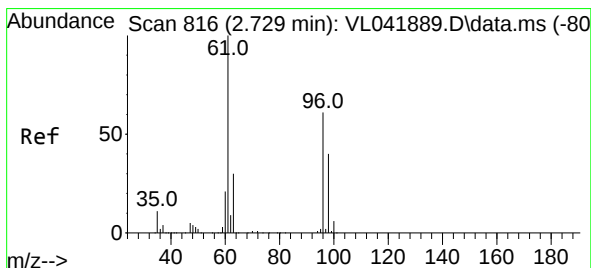
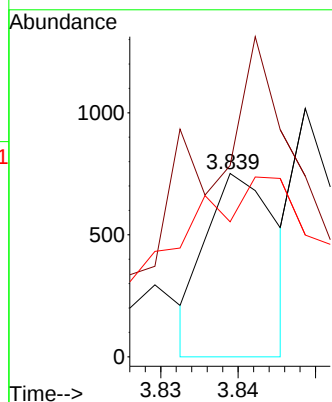
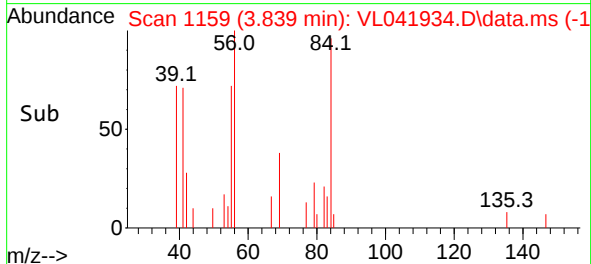


#30
Cyclohexane
Concen: 0.032 ppbv
RT: 3.839 min Scan# 1168
Delta R.T. -0.029 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30

Instrument :
MSVOA_L
ClientSampleId :

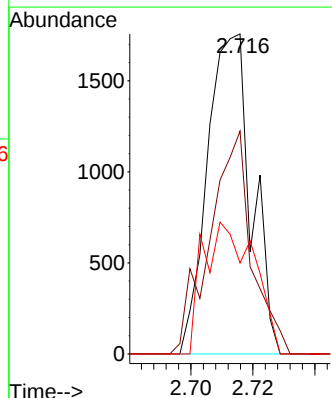
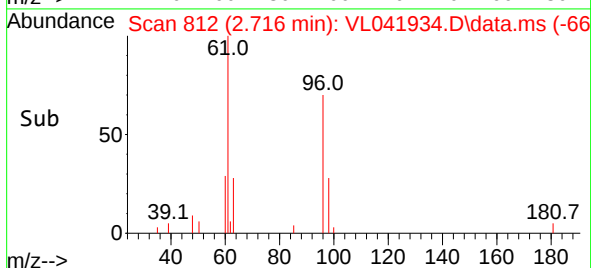
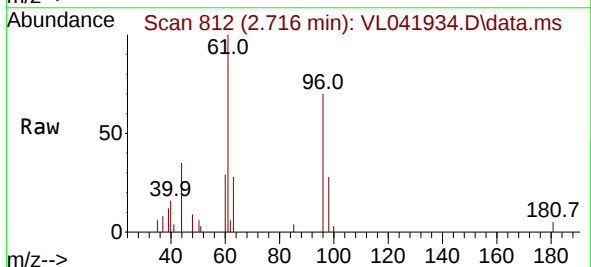


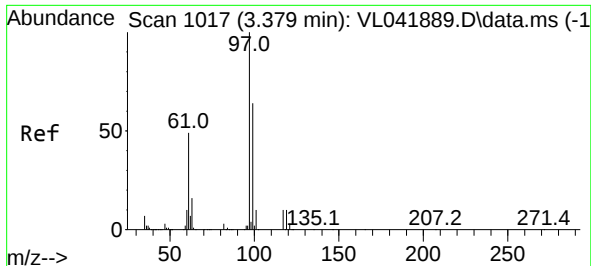
Tgt Ion: 84 Resp: 475
Ion Ratio Lower Upper
84 100
56 338.9 99.3 148.9#
41 0.0 64.3 96.5#



#31
cis-1,2-Dichloroethene
Concen: 0.097 ppbv
RT: 2.716 min Scan# 812
Delta R.T. -0.013 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30

Tgt Ion: 61 Resp: 1733
Ion Ratio Lower Upper
61 100
96 66.4 48.7 73.1
98 28.5 31.6 47.4#





#32

1,1,1-Trichloroethane

Concen: 0.084 ppbv

RT: 3.357 min Scan# 1192

Delta R.T. -0.023 min

Lab File: VL041934.D

Acq: 20 Jan 2025 23:30

Instrument :

MSVOA_L

ClientSampleId :

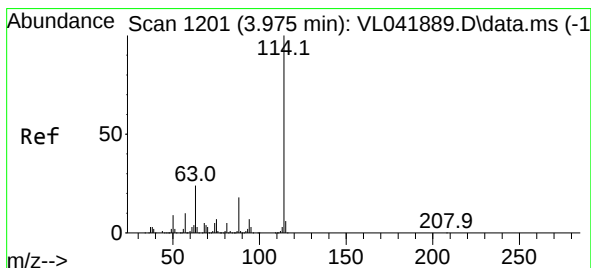
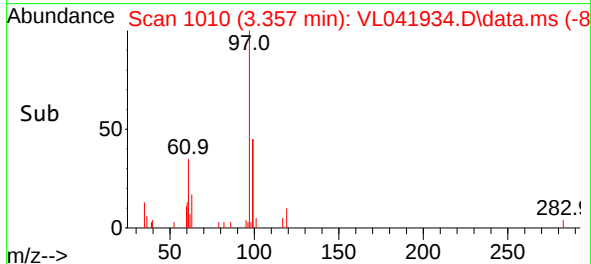
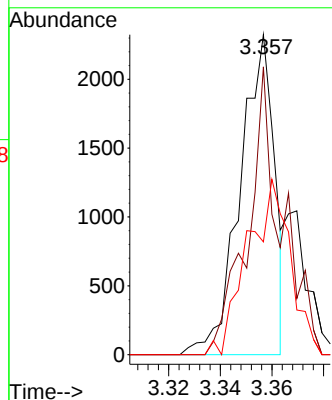
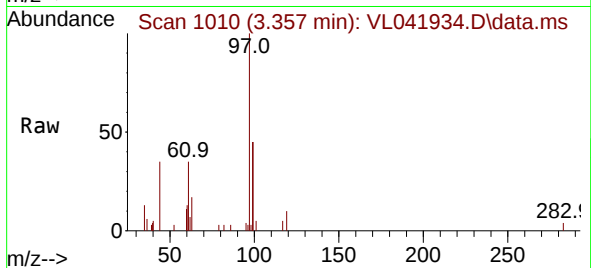
Tgt Ion: 97 Resp: 2156

Ion Ratio Lower Upper

97 100

99 87.9 51.1 76.7#

61 67.6 39.0 58.6#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.946 min Scan# 1192

Delta R.T. -0.029 min

Lab File: VL041934.D

Acq: 20 Jan 2025 23:30

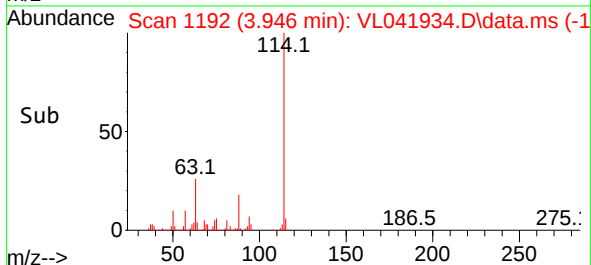
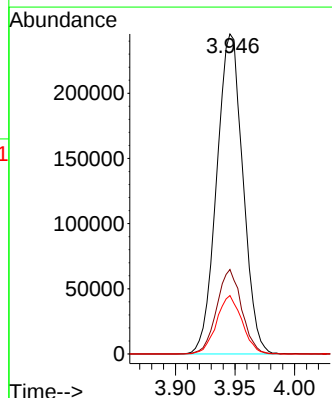
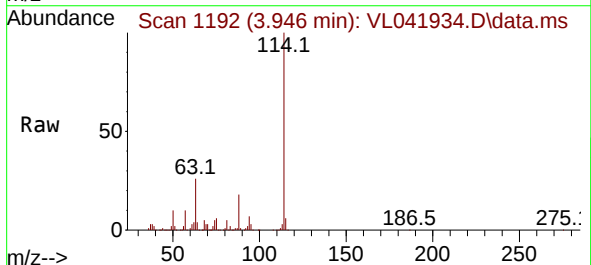
Tgt Ion: 114 Resp: 375060

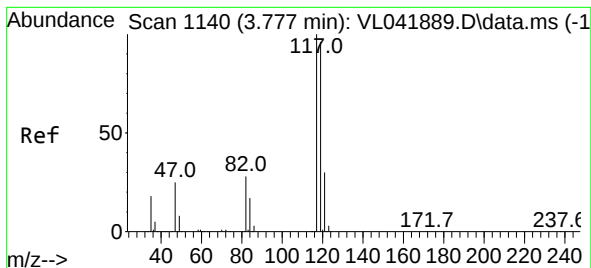
Ion Ratio Lower Upper

114 100

63 25.2 19.8 29.6

88 17.7 14.4 21.6





#35

Carbon Tetrachloride

Concen: 0.036 ppbv

RT: 3.748 min Scan# 1131

Delta R.T. -0.029 min

Lab File: VL041934.D

Acq: 20 Jan 2025 23:30

Instrument :

MSVOA_L

ClientSampleId :

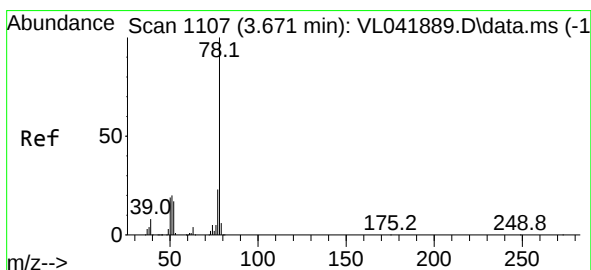
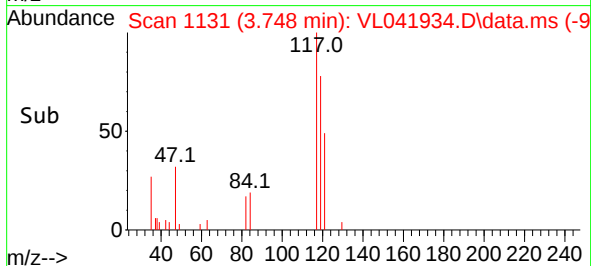
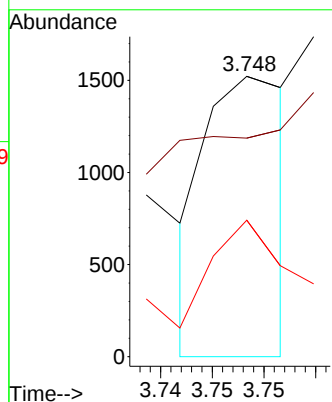
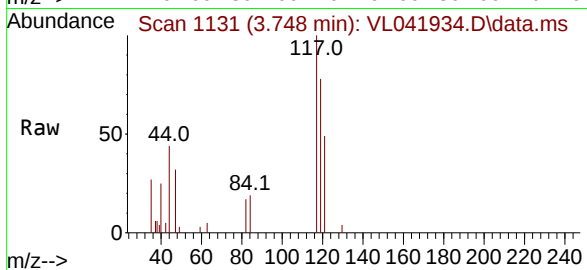
Tgt Ion:117 Resp: 842

Ion Ratio Lower Upper

117 100

119 1.5 76.9 115.3#

121 73.3 23.8 35.6#



#36

Benzene

Concen: 0.105 ppbv

RT: 3.645 min Scan# 1099

Delta R.T. -0.026 min

Lab File: VL041934.D

Acq: 20 Jan 2025 23:30

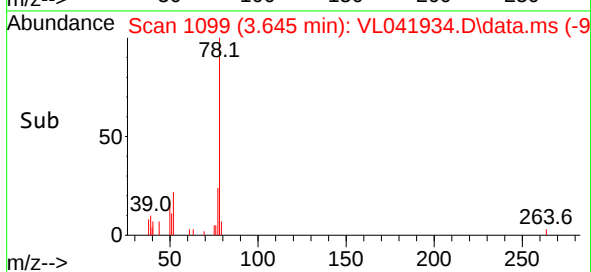
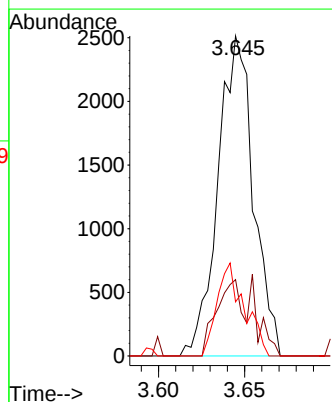
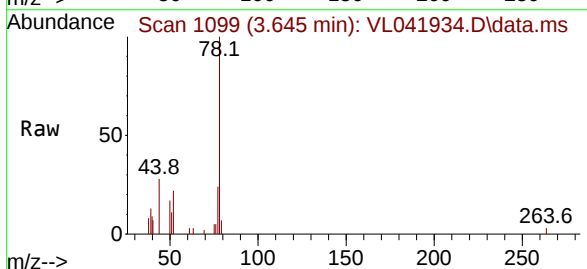
Tgt Ion: 78 Resp: 3602

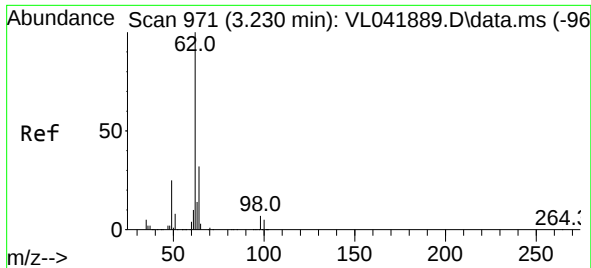
Ion Ratio Lower Upper

78 100

77 23.9 18.1 27.1

50 16.9 15.2 22.8





#37

1,2-Dichloroethane

Concen: 0.130 ppbv

RT: 3.208 min Scan# 9

Delta R.T. -0.023 min

Lab File: VL041934.D

Acq: 20 Jan 2025 23:30

Instrument :

MSVOA_L

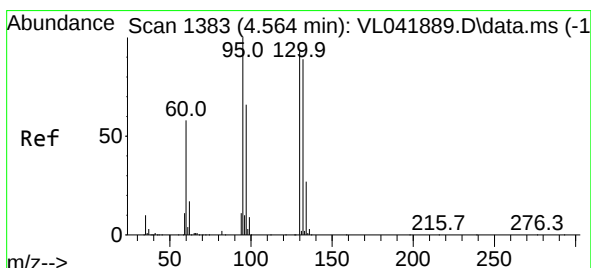
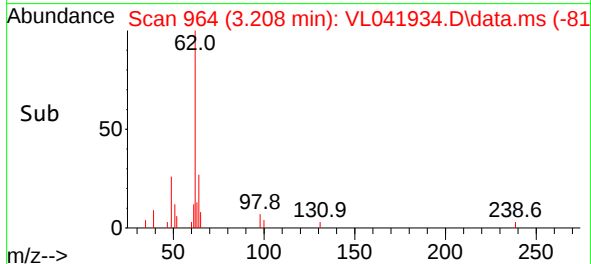
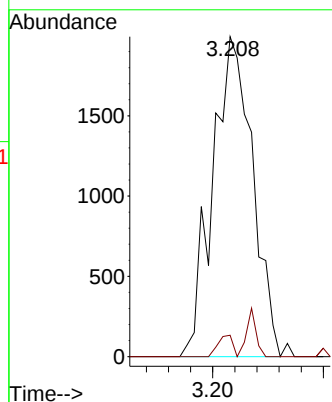
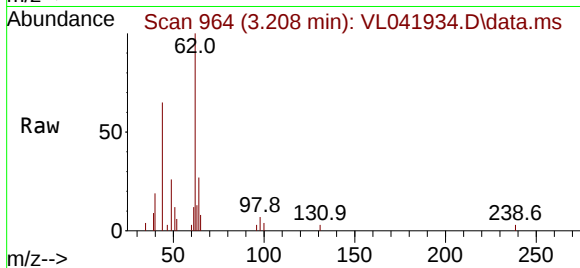
ClientSampleId :

Tgt Ion: 62 Resp: 2502

Ion Ratio Lower Upper

62 100

98 6.0 5.4 8.0



#38

Trichloroethene

Concen: 0.034 ppbv

RT: 4.532 min Scan# 1373

Delta R.T. -0.032 min

Lab File: VL041934.D

Acq: 20 Jan 2025 23:30

Tgt Ion:130 Resp: 459

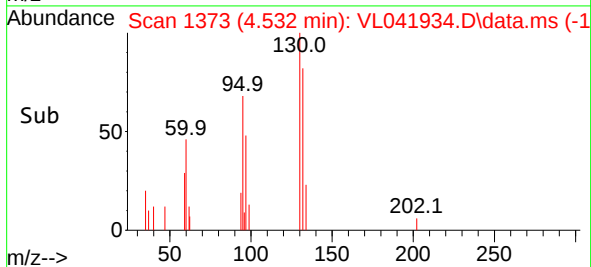
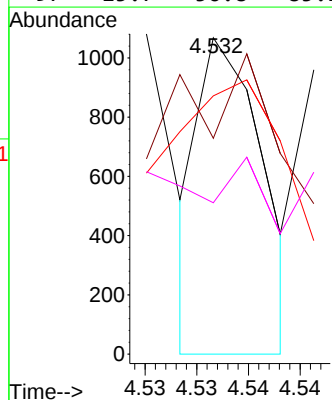
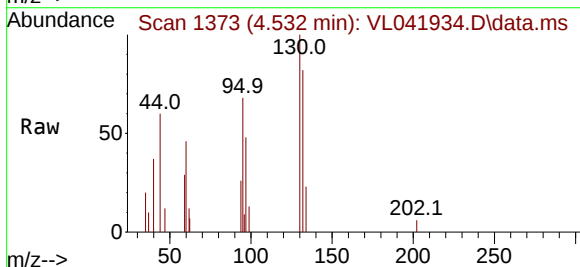
Ion Ratio Lower Upper

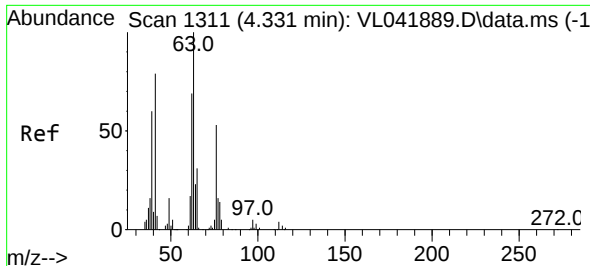
130 100

95 7.7 85.8 128.8#

132 22.9 76.5 114.7#

97 15.7 56.8 85.2#





#39

1,2-Dichloropropane

Concen: 7.821 ppbv

RT: 3.946 min Scan# 1192

Delta R.T. -0.385 min

Lab File: VL041934.D

Acq: 20 Jan 2025 23:30

Instrument :

MSVOA_L

ClientSampleId :

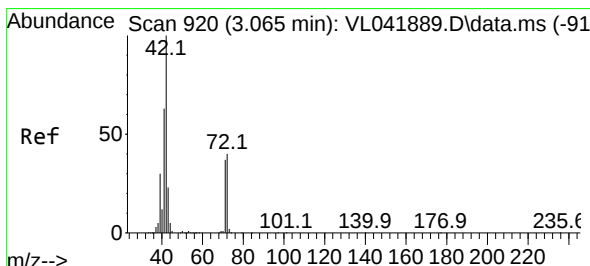
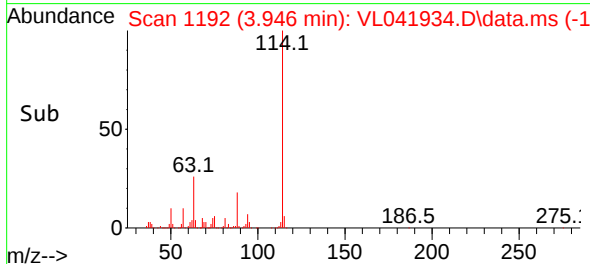
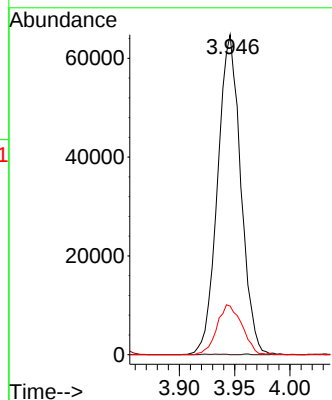
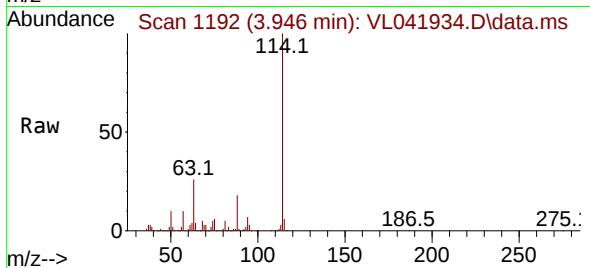
Tgt Ion: 63 Resp: 94379

Ion Ratio Lower Upper

63 100

41 0.0 63.7 95.5#

62 15.2 55.4 83.2#



#41

Tetrahydrofuran

Concen: 0.054 ppbv

RT: 3.065 min Scan# 920

Delta R.T. 0.000 min

Lab File: VL041934.D

Acq: 20 Jan 2025 23:30

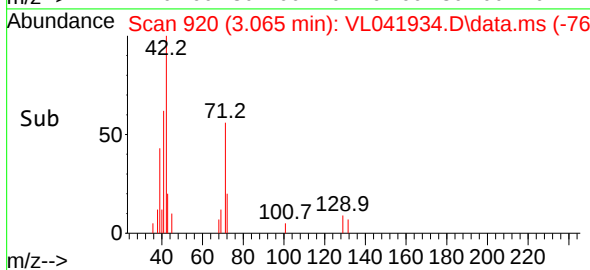
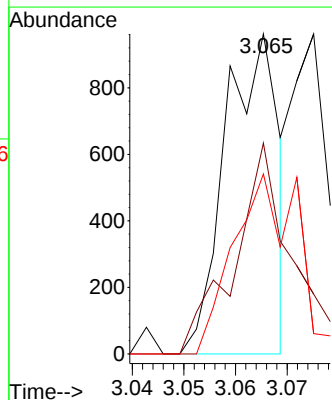
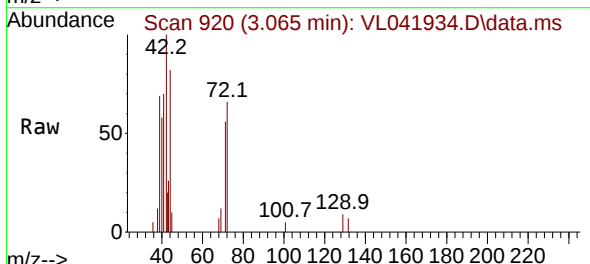
Tgt Ion: 42 Resp: 695

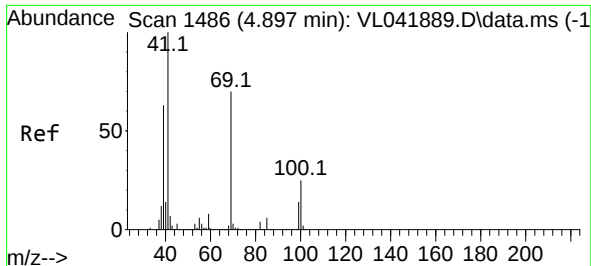
Ion Ratio Lower Upper

42 100

72 77.3 32.3 48.5#

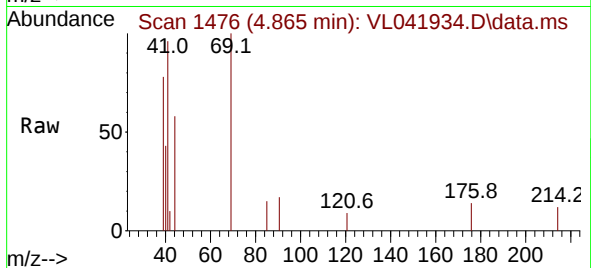
71 72.4 29.9 44.9#



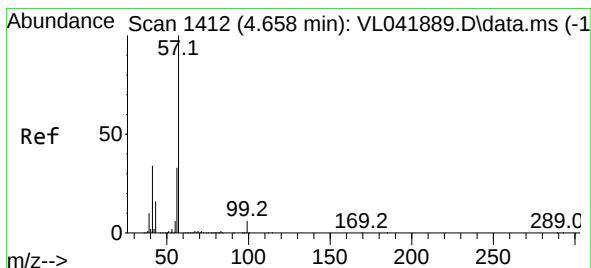
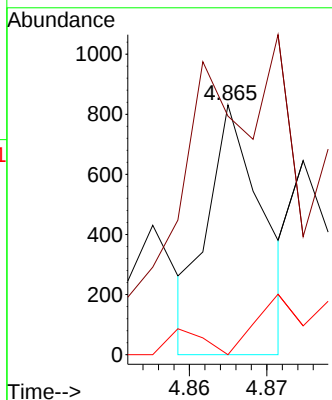
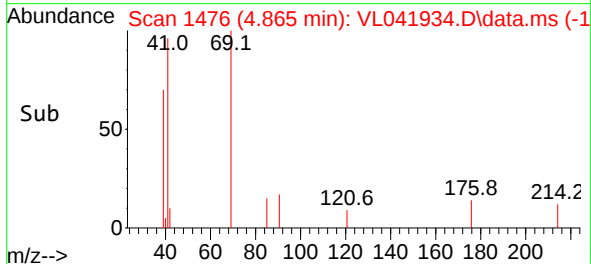


#43
Methyl Methacrylate
Concen: 0.032 ppbv
RT: 4.865 min Scan# 1403
Delta R.T. -0.032 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30

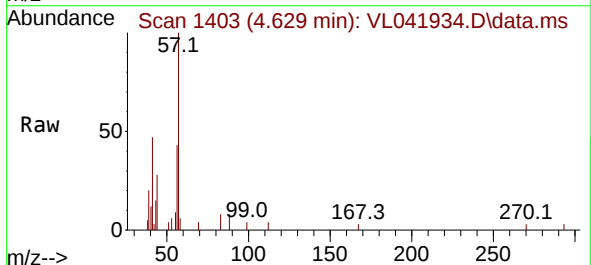
Instrument :
MSVOA_L
ClientSampleId :



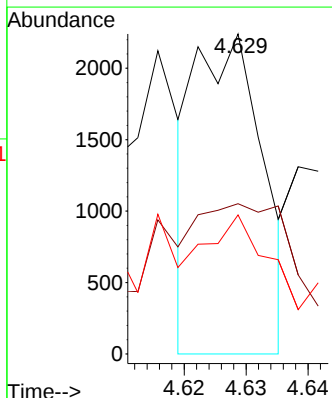
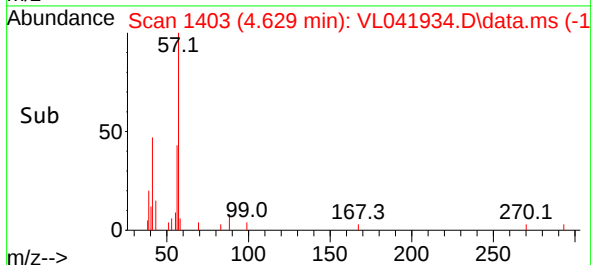
Tgt Ion: 69 Resp: 407
Ion Ratio Lower Upper
69 100
41 0.0 118.6 177.8#
100 0.0 29.3 43.9#

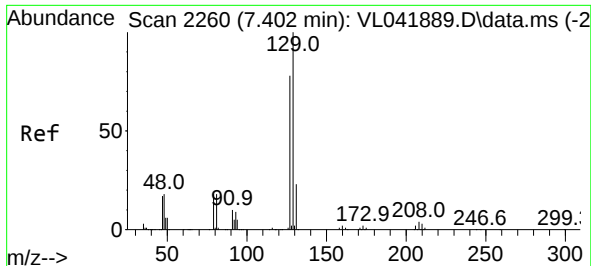


#44
2,2,4-Trimethylpentane
Concen: 0.031 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. -0.029 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30



Tgt Ion: 57 Resp: 1698
Ion Ratio Lower Upper
57 100
41 123.4 26.6 40.0#
56 0.0 25.4 38.2#

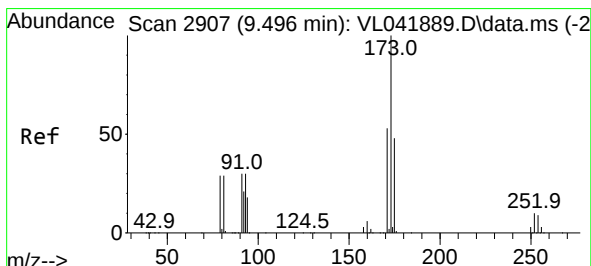
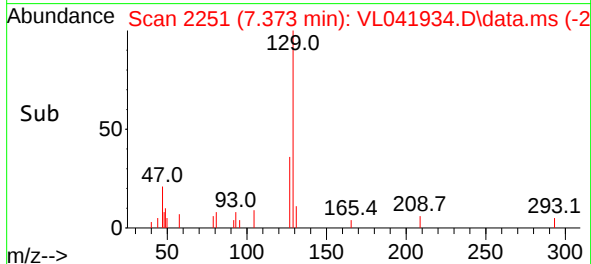
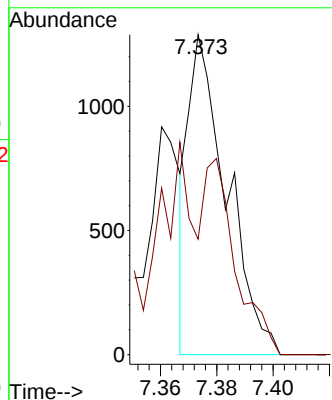
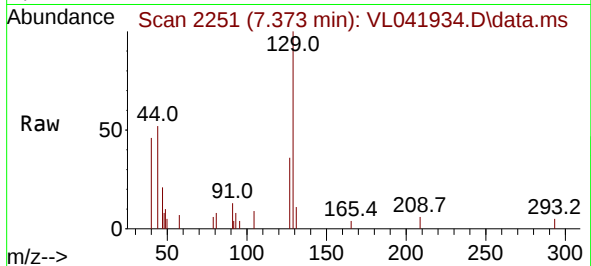




#48
Dibromochloromethane
Concen: 0.062 ppbv
RT: 7.373 min Scan# 211
Delta R.T. -0.029 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30

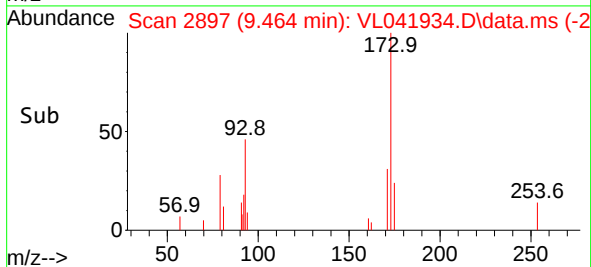
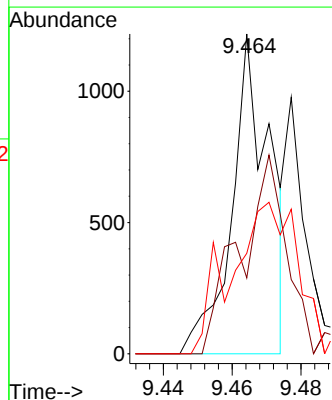
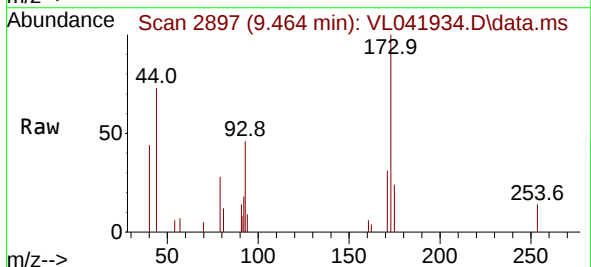
Instrument :
MSVOA_L
ClientSampleId :

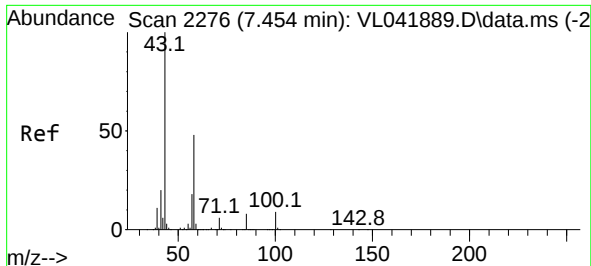
Tgt Ion:129 Resp: 1223
Ion Ratio Lower Upper
129 100
127 115.9 39.3 117.8



#49
Bromoform
Concen: 0.057 ppbv
RT: 9.464 min Scan# 2897
Delta R.T. -0.032 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30

Tgt Ion:173 Resp: 926
Ion Ratio Lower Upper
173 100
175 3.8 38.4 57.6#
171 0.0 41.4 62.2#

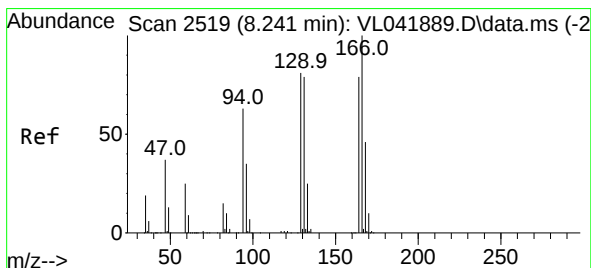
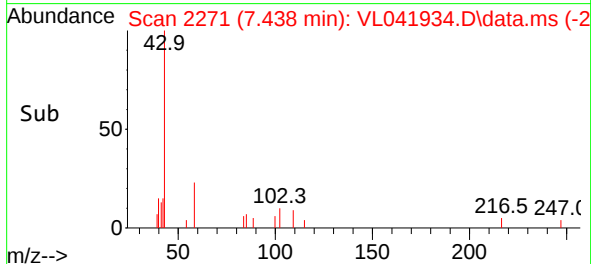
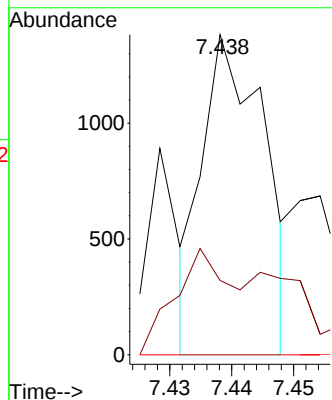
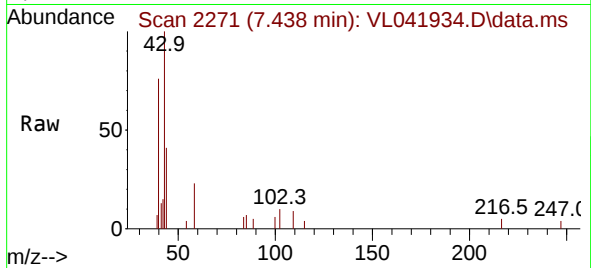




#51
2-Hexanone
Concen: 0.038 ppbv
RT: 7.438 min Scan# 210
Delta R.T. -0.016 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30

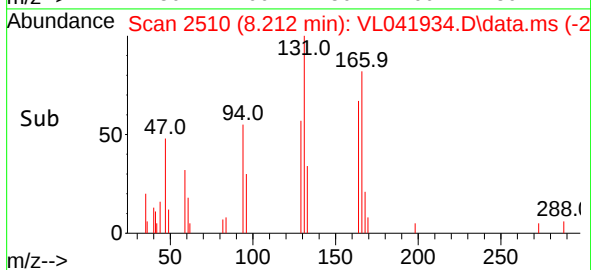
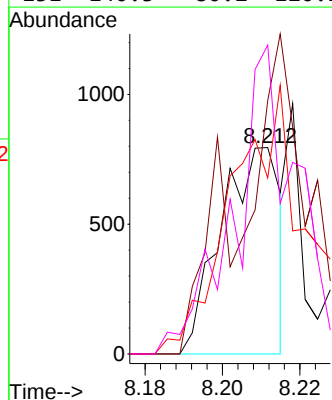
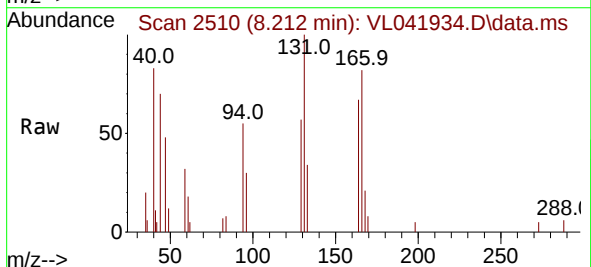
Instrument :
MSVOA_L
ClientSampleId :

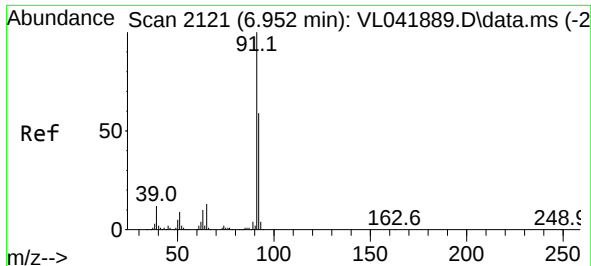
Tgt Ion: 43 Resp: 963
Ion Ratio Lower Upper
43 100
58 69.8 40.4 60.6#
98 0.0 0.2 0.2#



#52
Tetrachloroethene
Concen: 0.071 ppbv
RT: 8.212 min Scan# 2510
Delta R.T. -0.029 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30

Tgt Ion: 164 Resp: 841
Ion Ratio Lower Upper
164 100
166 122.8 100.8 151.2
129 78.6 82.0 123.0#
131 140.3 80.2 120.2#

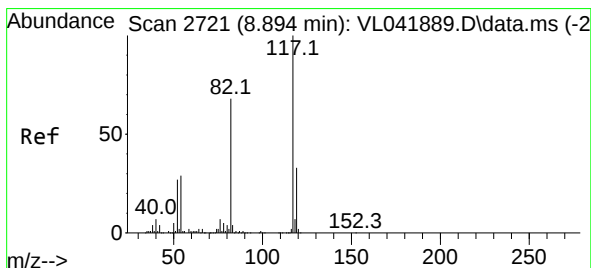
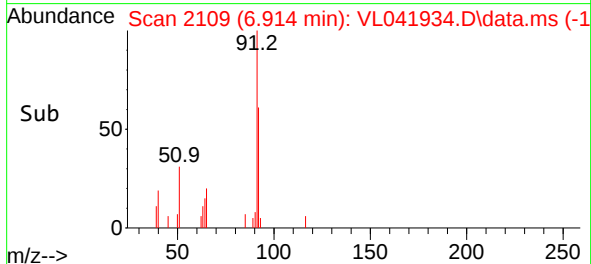
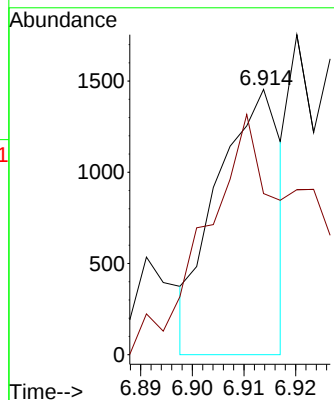
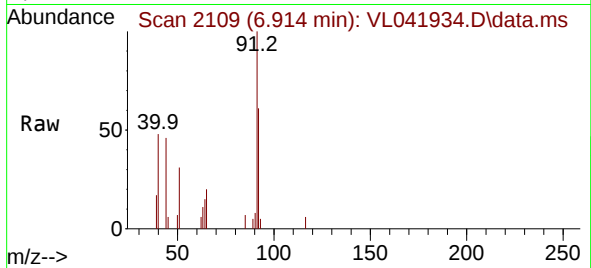




#53
Toluene
Concen: 0.033 ppbv
RT: 6.914 min Scan# 2121
Delta R.T. -0.039 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30

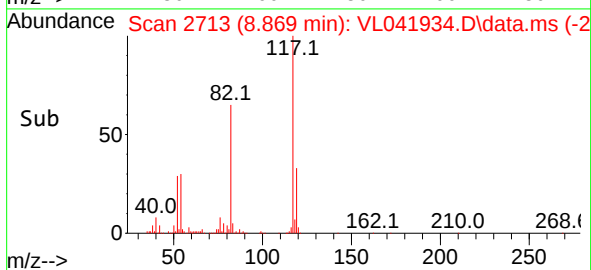
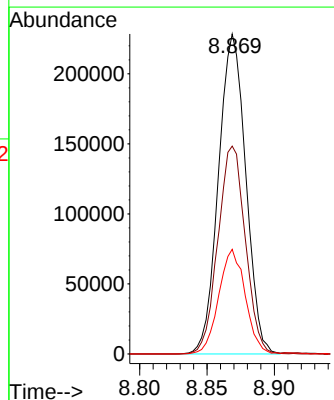
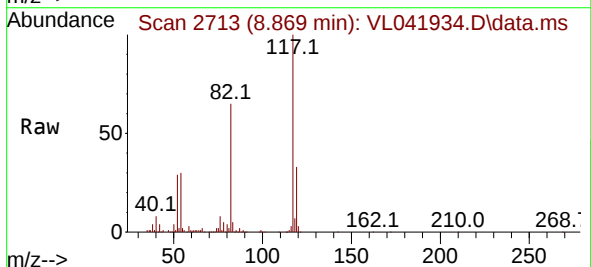
Instrument :
MSVOA_L
ClientSampleId :

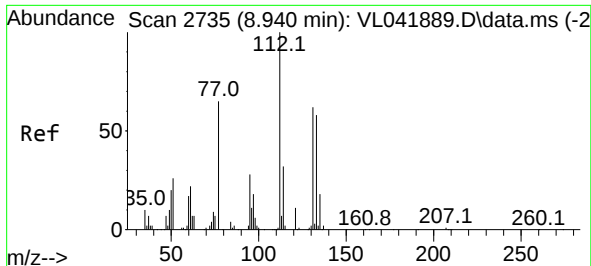
Tgt Ion: 91 Resp: 1246
Ion Ratio Lower Upper
91 100
92 157.6 47.4 71.0#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2713
Delta R.T. -0.026 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30

Tgt Ion: 117 Resp: 321701
Ion Ratio Lower Upper
117 100
82 65.2 54.2 81.4
119 32.0 25.0 37.6

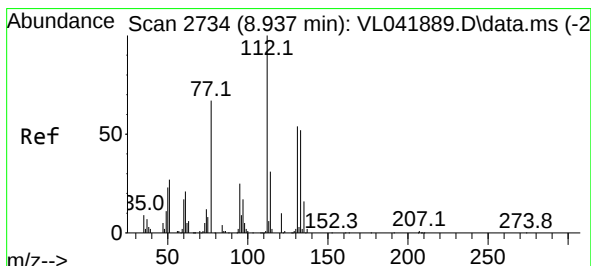
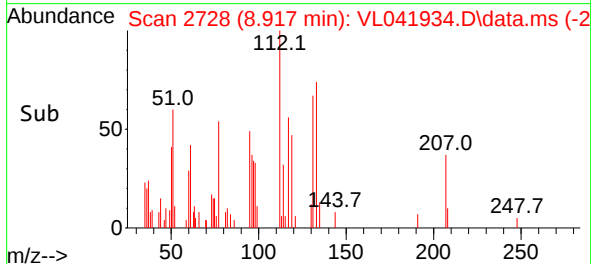
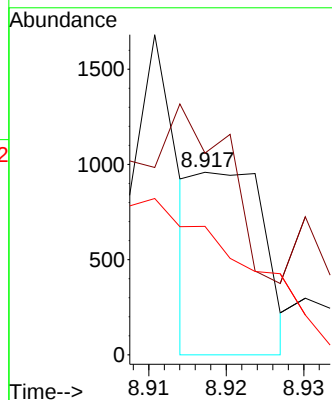
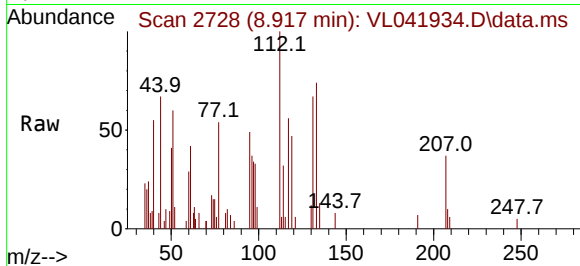




#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.037 ppbv
 RT: 8.917 min Scan# 21
 Delta R.T. -0.023 min
 Lab File: VL041934.D
 Acq: 20 Jan 2025 23:30

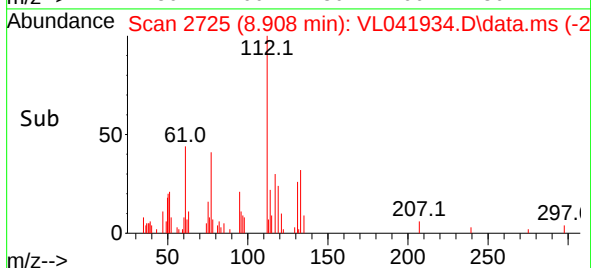
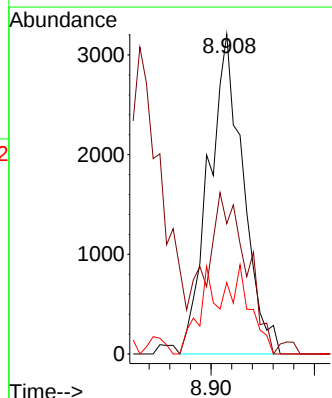
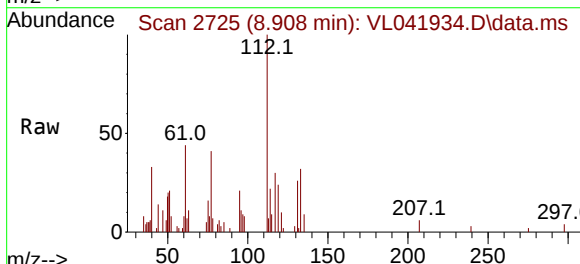
Instrument :
 MSVOA_L
 ClientSampleId :

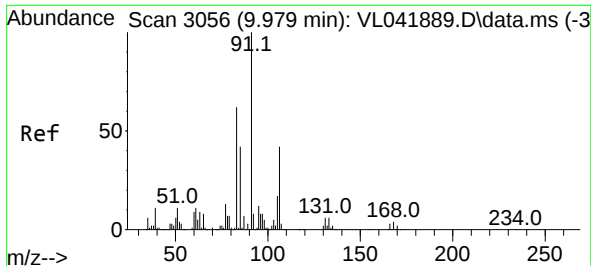
Tgt Ion:131 Resp: 596
 Ion Ratio Lower Upper
 131 100
 133 311.4 76.0 114.0#
 119 0.0 49.7 74.5#



#57
 Chlorobenzene
 Concen: 0.125 ppbv
 RT: 8.908 min Scan# 2725
 Delta R.T. -0.029 min
 Lab File: VL041934.D
 Acq: 20 Jan 2025 23:30

Tgt Ion:112 Resp: 3707
 Ion Ratio Lower Upper
 112 100
 77 37.6 54.6 82.0#
 114 22.3 28.2 34.4#

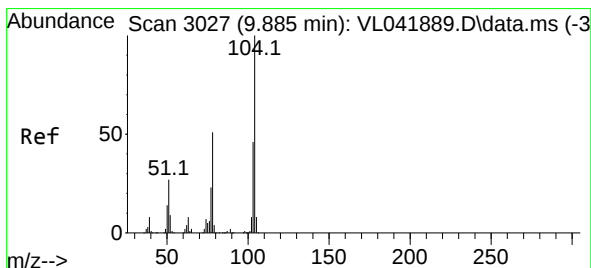
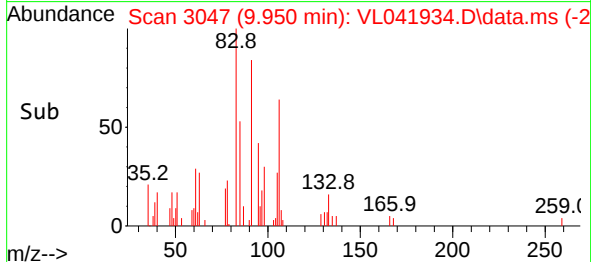
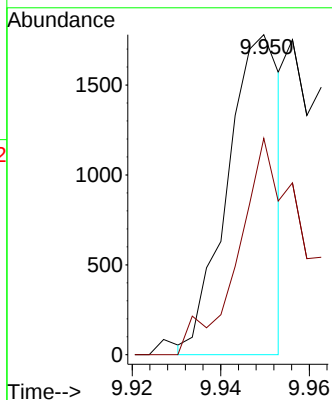
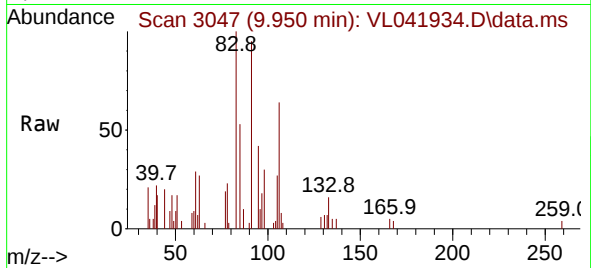




#60
o-Xylene
Concen: 0.037 ppbv
RT: 9.950 min Scan# 3056
Delta R.T. -0.029 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30

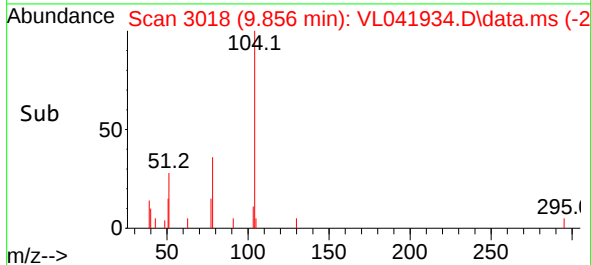
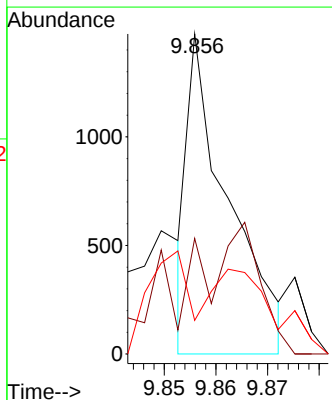
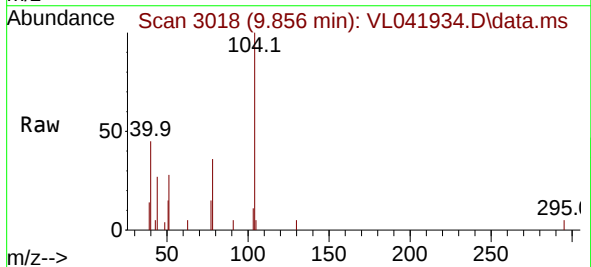
Instrument :
MSVOA_L
ClientSampleId :

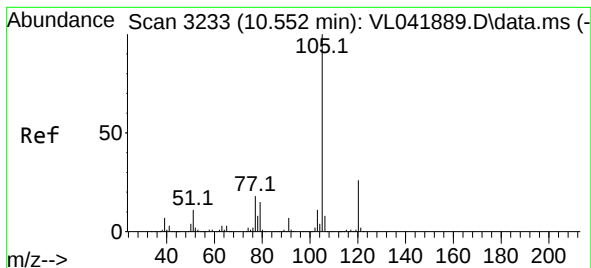
Tgt Ion: 91 Resp: 1474
Ion Ratio Lower Upper
91 100
106 88.9 21.3 63.9#



#61
Styrene
Concen: 0.045 ppbv
RT: 9.856 min Scan# 3018
Delta R.T. -0.029 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30

Tgt Ion:104 Resp: 815
Ion Ratio Lower Upper
104 100
78 0.0 41.0 61.6#
103 72.8 37.2 55.8#





#62

Isopropylbenzene

Concen: 0.084 ppbv

RT: 10.529 min Scan# 31

Delta R.T. -0.023 min

Lab File: VL041934.D

Acq: 20 Jan 2025 23:30

Instrument :

MSVOA_L

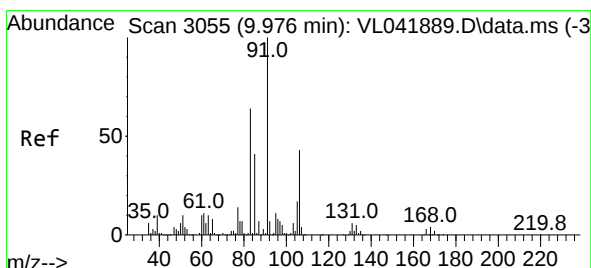
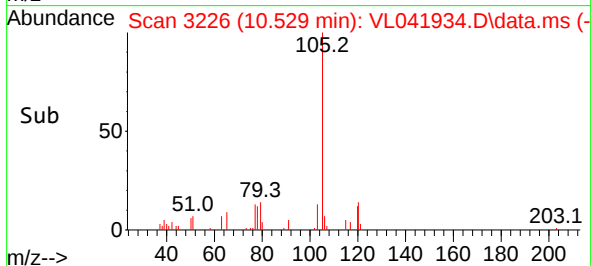
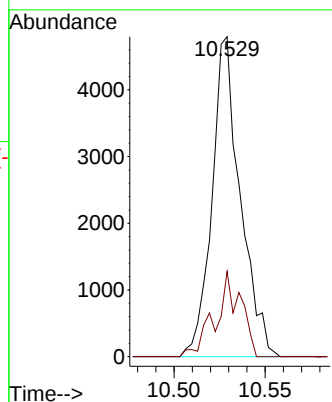
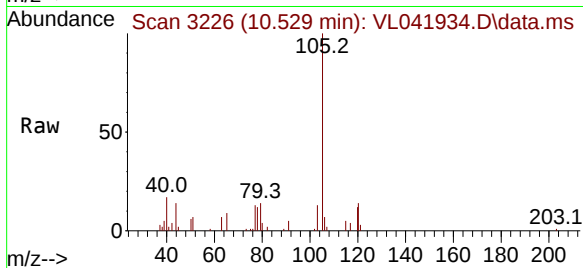
ClientSampleId :

Tgt Ion:105 Resp: 5186

Ion Ratio Lower Upper

105 100

120 23.9 20.3 30.5



#63

1,1,2,2-Tetrachloroethane

Concen: 0.118 ppbv

RT: 9.953 min Scan# 3048

Delta R.T. -0.023 min

Lab File: VL041934.D

Acq: 20 Jan 2025 23:30

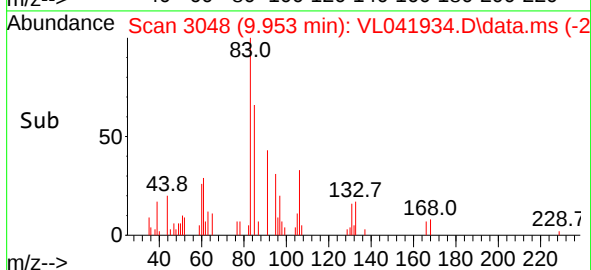
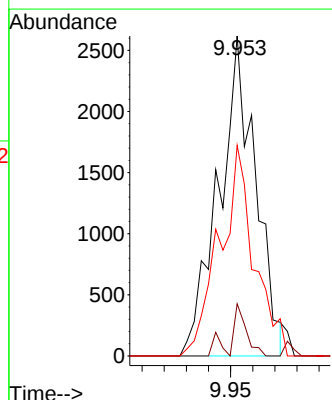
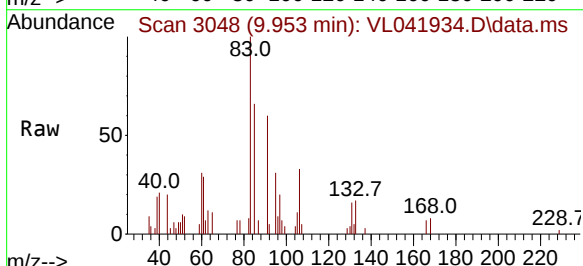
Tgt Ion: 83 Resp: 3019

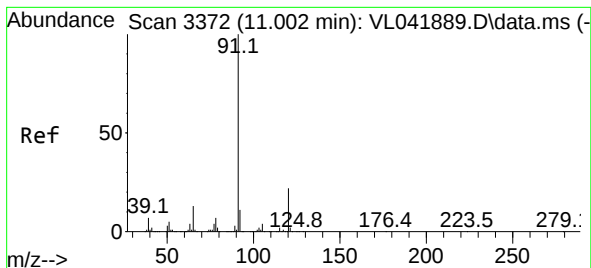
Ion Ratio Lower Upper

83 100

131 8.1 4.8 14.4

85 61.8 32.4 97.2





#64

n-propylbenzene

Concen: 0.060 ppbv

RT: 10.979 min Scan# 31

Delta R.T. -0.023 min

Lab File: VL041934.D

Acq: 20 Jan 2025 23:30

Instrument :

MSVOA_L

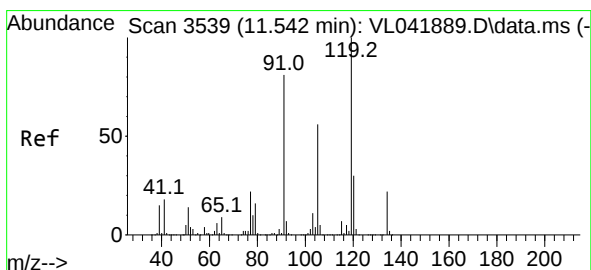
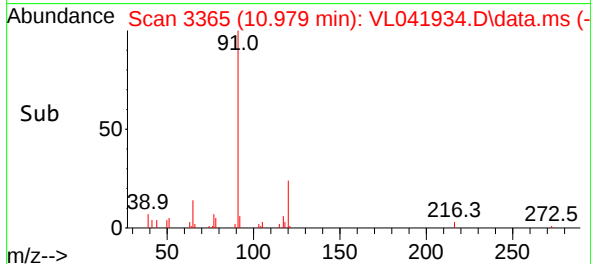
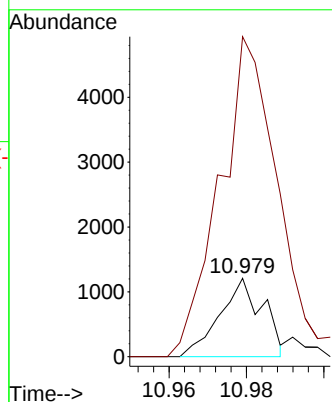
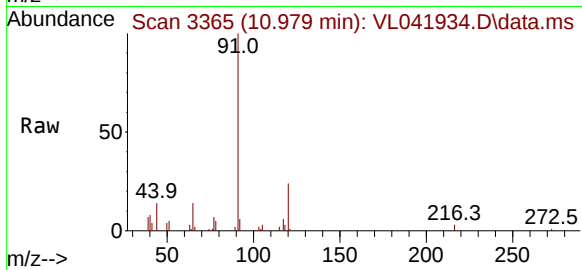
ClientSampleId :

Tgt Ion:120 Resp: 941

Ion Ratio Lower Upper

120 100

91 539.3 374.1 561.1



#65

tert-Butylbenzene

Concen: 0.055 ppbv

RT: 11.520 min Scan# 3532

Delta R.T. -0.023 min

Lab File: VL041934.D

Acq: 20 Jan 2025 23:30

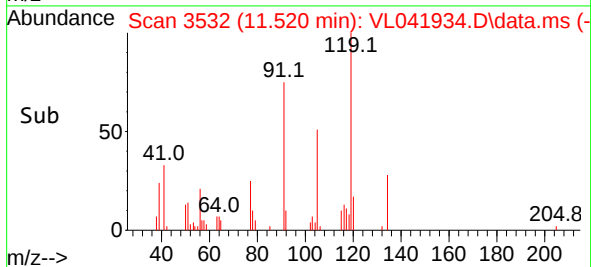
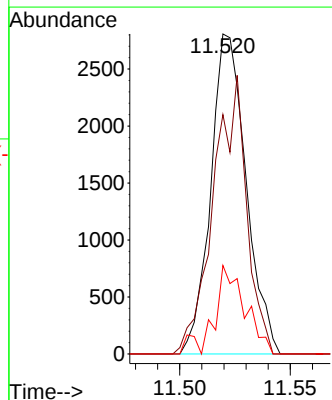
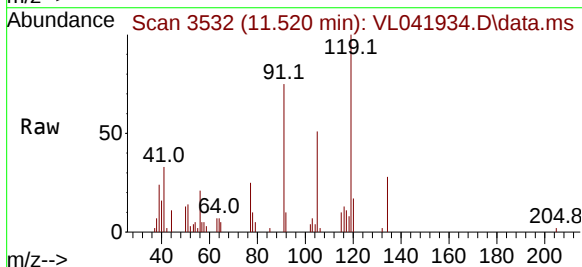
Tgt Ion:119 Resp: 3130

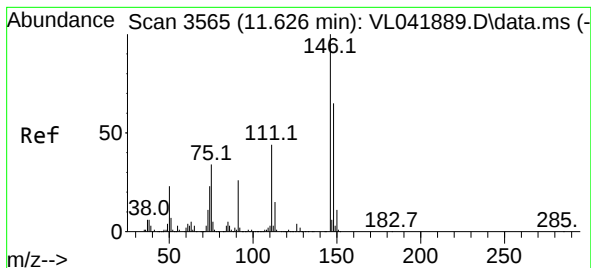
Ion Ratio Lower Upper

119 100

91 81.3 64.6 97.0

134 24.3 16.8 25.2





#66

Benzyl Chloride

Concen: 0.037 ppbv

RT: 11.597 min Scan# 31

Delta R.T. -0.029 min

Lab File: VL041934.D

Acq: 20 Jan 2025 23:30

Instrument :

MSVOA_L

ClientSampleId :

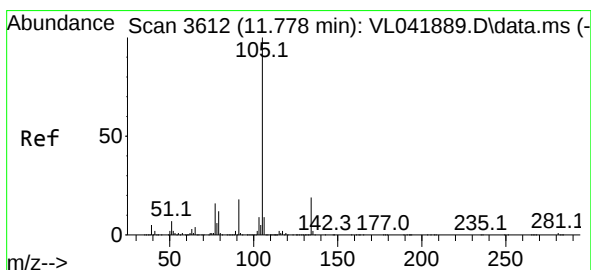
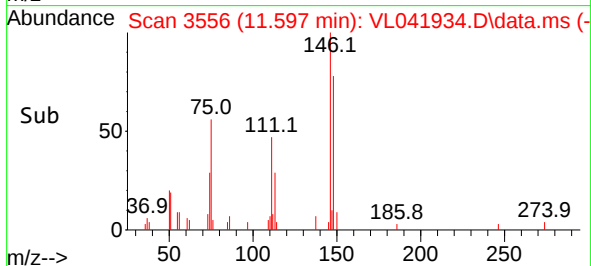
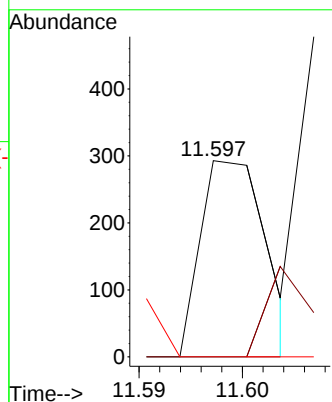
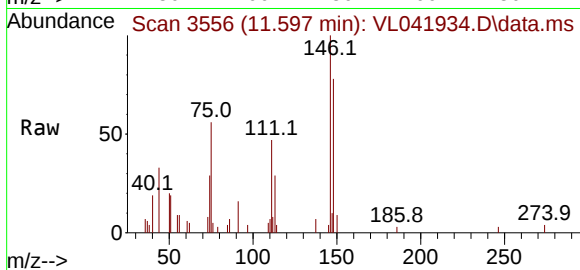
Tgt Ion: 91 Resp: 129

Ion Ratio Lower Upper

91 100

126 0.0 14.1 21.1#

128 13.2 4.3 6.5#



#67

sec-Butylbenzene

Concen: 0.059 ppbv

RT: 11.759 min Scan# 3606

Delta R.T. -0.019 min

Lab File: VL041934.D

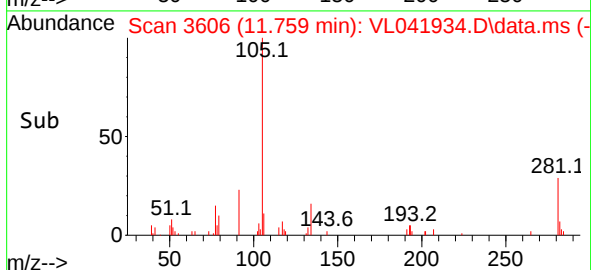
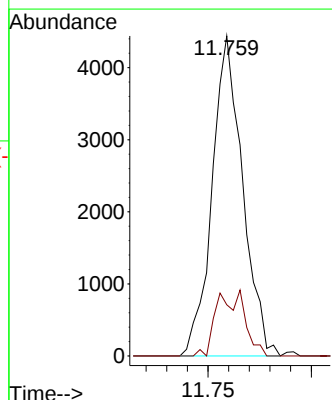
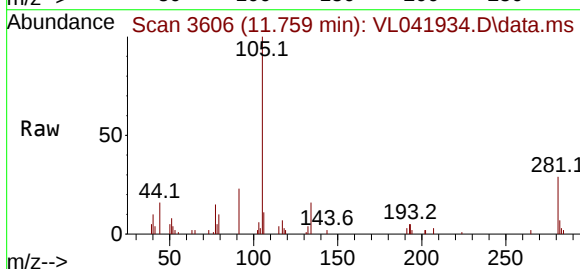
Acq: 20 Jan 2025 23:30

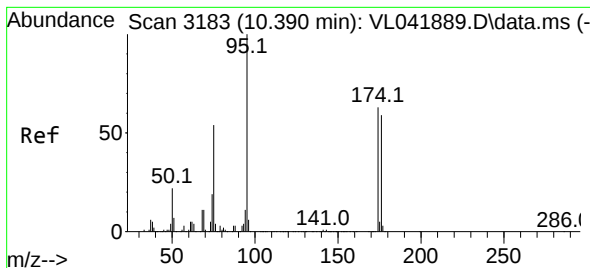
Tgt Ion: 105 Resp: 4561

Ion Ratio Lower Upper

105 100

134 18.9 15.1 22.7

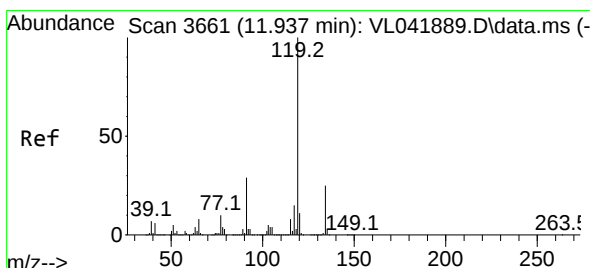
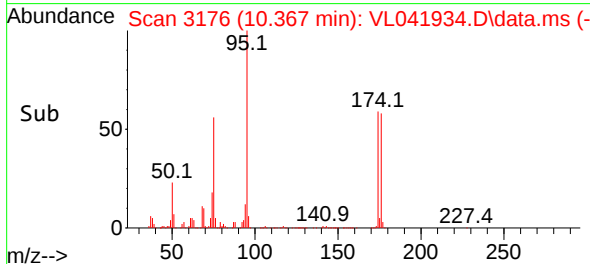
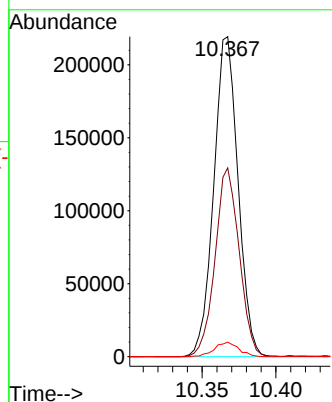
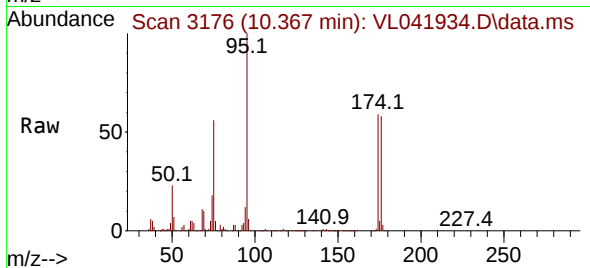




#68
1-Bromo-4-Fluorobenzene
Concen: 9.901 ppbv
RT: 10.367 min Scan# 3183
Delta R.T. -0.023 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30

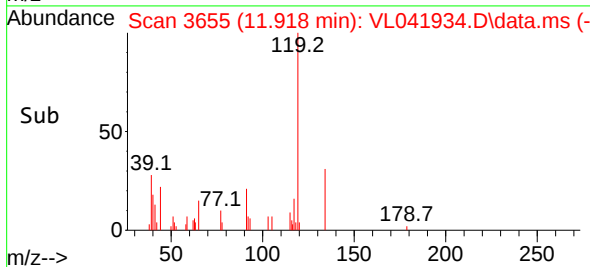
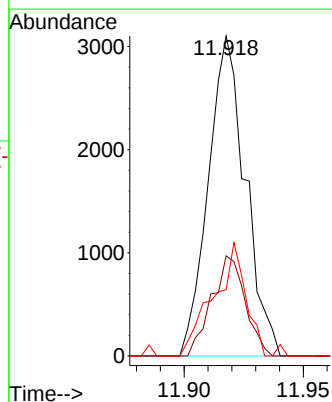
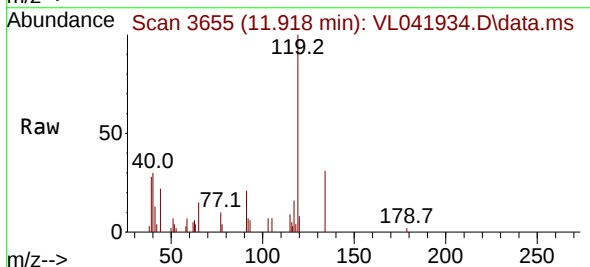
Instrument :
MSVOA_L
ClientSampleId :

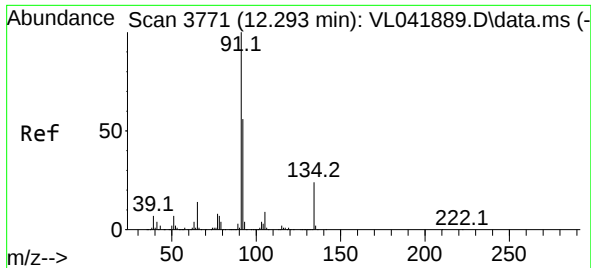
Tgt Ion: 95 Resp: 250881
Ion Ratio Lower Upper
95 100
174 58.6 49.0 73.4
175 4.5 3.8 5.8



#69
p-Isopropyltoluene
Concen: 0.052 ppbv
RT: 11.918 min Scan# 3655
Delta R.T. -0.019 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30

Tgt Ion: 119 Resp: 3352
Ion Ratio Lower Upper
119 100
134 28.2 19.8 29.6
91 31.5 23.0 34.4

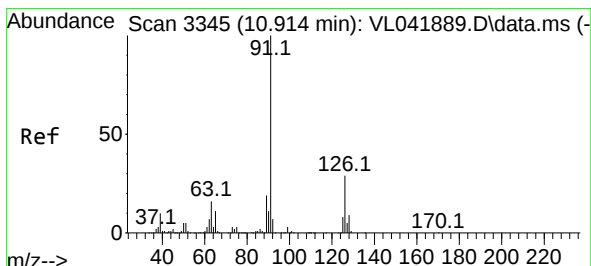
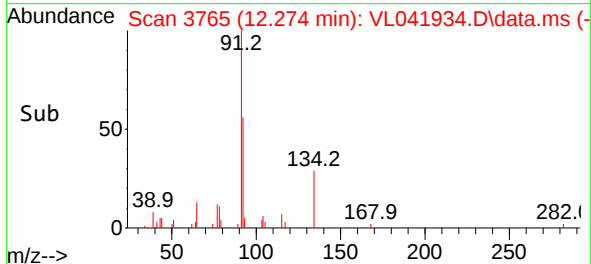
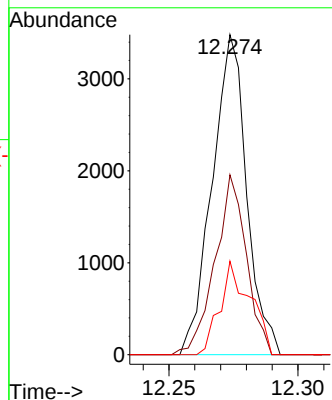
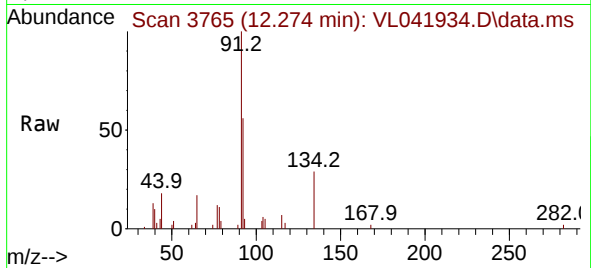




#70
n-Butylbenzene
Concen: 0.051 ppbv
RT: 12.274 min Scan# 31
Delta R.T. -0.019 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30

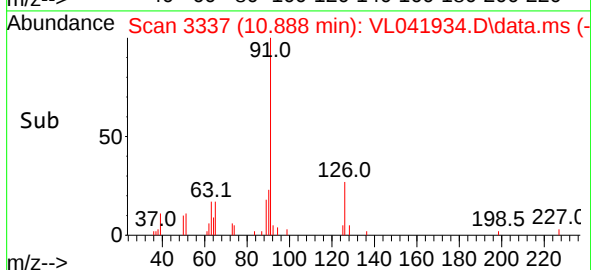
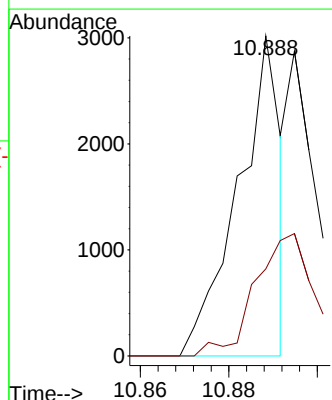
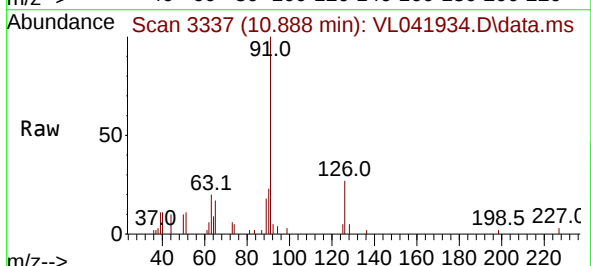
Instrument :
MSVOA_L
ClientSampleId :

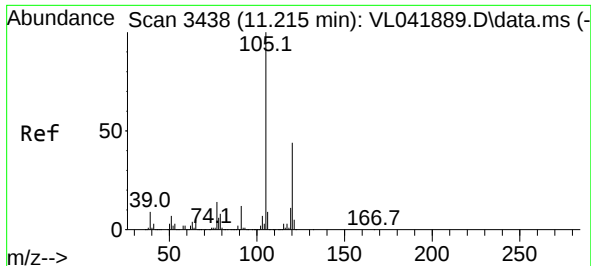
Tgt Ion: 91	Resp:	3236
Ion	Ratio	Lower Upper
91	100	
92	51.1	43.8 65.6
134	25.6	19.0 28.6



#71
2-Chlorotoluene
Concen: 0.044 ppbv
RT: 10.888 min Scan# 3337
Delta R.T. -0.026 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30

Tgt Ion: 91	Resp:	2010
Ion	Ratio	Lower Upper
91	100	
126	0.0	11.7 46.7#

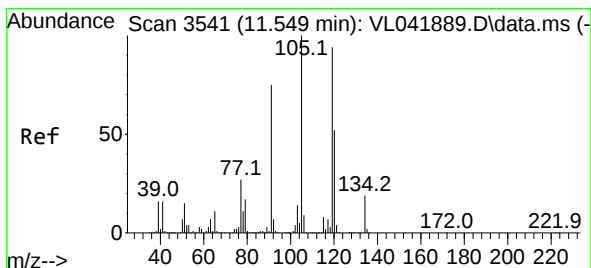
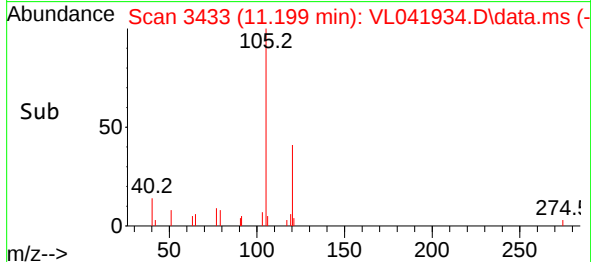
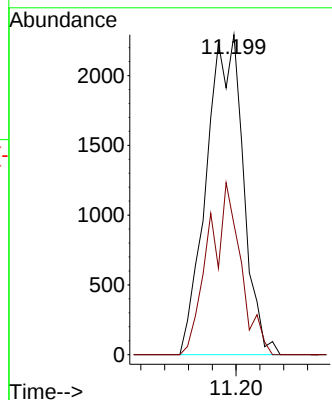
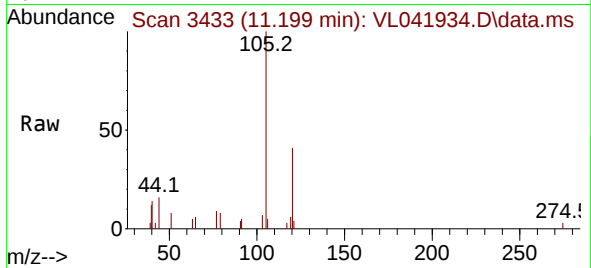




#73
 1,3,5-Trimethylbenzene
 Concen: 0.058 ppbv
 RT: 11.199 min Scan# 3438
 Delta R.T. -0.016 min
 Lab File: VL041934.D
 Acq: 20 Jan 2025 23:30

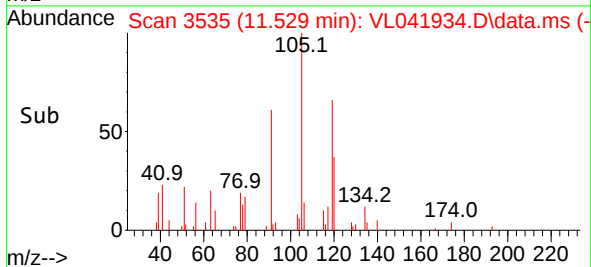
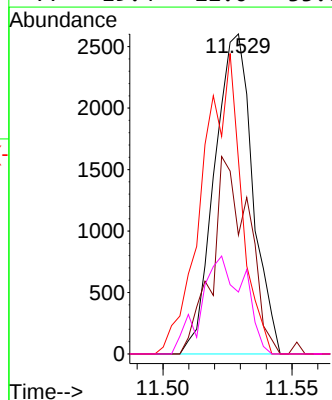
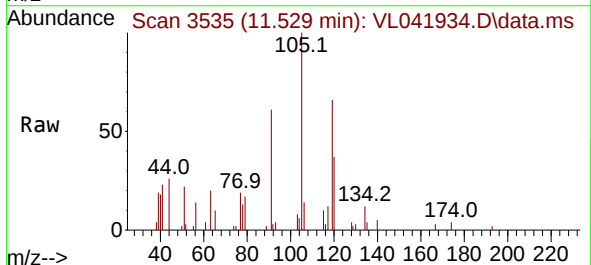
Instrument :
 MSVOA_L
 ClientSampleId :

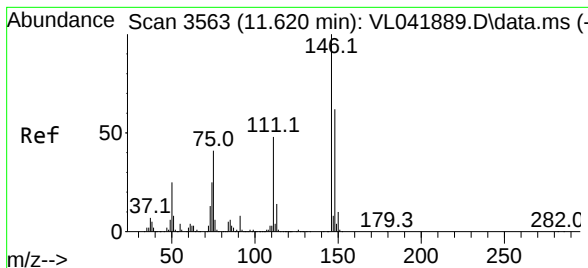
Tgt Ion:105 Resp: 2452
 Ion Ratio Lower Upper
 105 100
 120 40.7 35.4 53.2



#74
 1,2,4-Trimethylbenzene
 Concen: 0.058 ppbv
 RT: 11.529 min Scan# 3535
 Delta R.T. -0.019 min
 Lab File: VL041934.D
 Acq: 20 Jan 2025 23:30

Tgt Ion:105 Resp: 2672
 Ion Ratio Lower Upper
 105 100
 120 37.1 41.4 62.2#
 91 63.6 60.2 90.2
 77 19.4 22.0 33.0#





#75

1,3-Dichlorobenzene

Concen: 0.074 ppbv

RT: 11.600 min Scan# 3557

Delta R.T. -0.019 min

Lab File: VL041934.D

Acq: 20 Jan 2025 23:30

Instrument :

MSVOA_L

ClientSampleId :

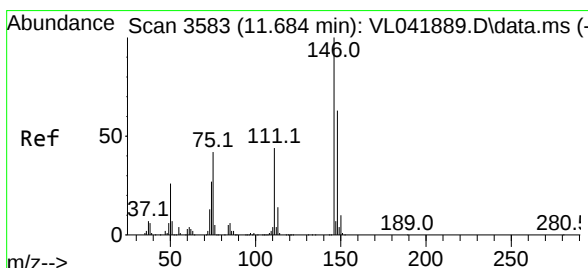
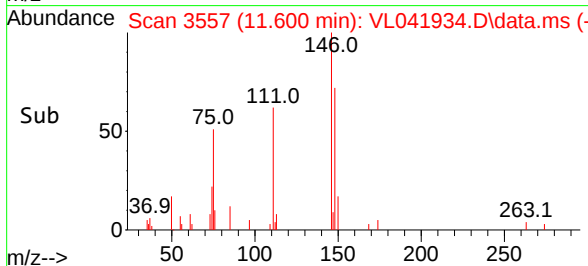
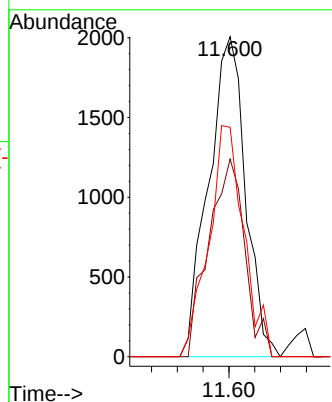
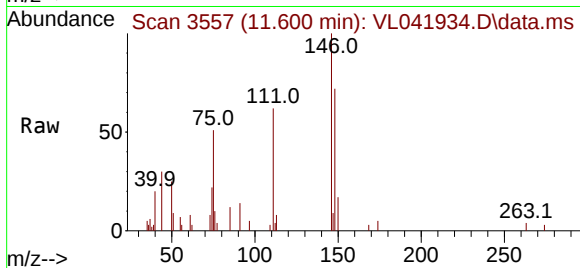
Tgt Ion:146 Resp: 2000

Ion Ratio Lower Upper

146 100

111 60.4 23.6 70.8

148 68.2 31.4 94.0



#76

1,4-Dichlorobenzene

Concen: 0.083 ppbv

RT: 11.662 min Scan# 3576

Delta R.T. -0.023 min

Lab File: VL041934.D

Acq: 20 Jan 2025 23:30

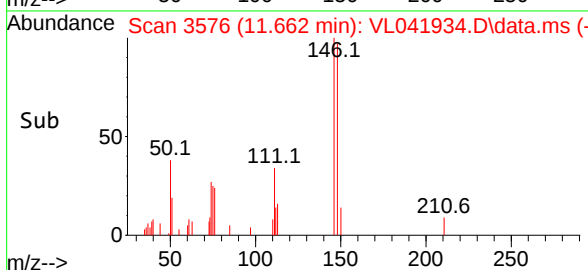
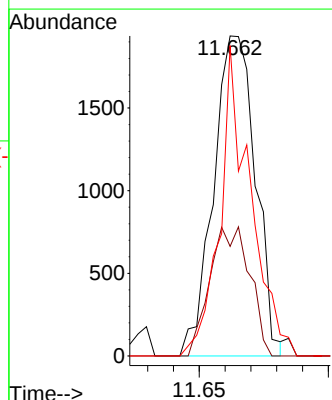
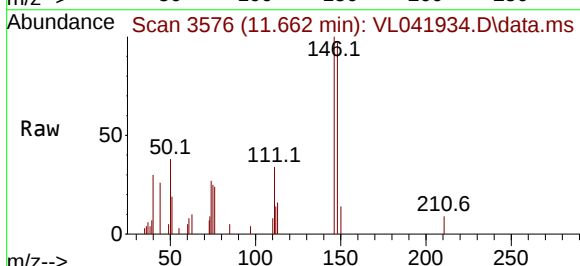
Tgt Ion:146 Resp: 2190

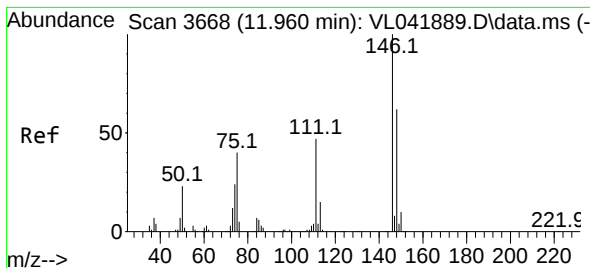
Ion Ratio Lower Upper

146 100

111 38.4 22.4 67.0

148 70.4 31.9 95.5





#77

1,2-Dichlorobenzene

Concen: 0.095 ppbv

RT: 11.940 min Scan# 3662

Delta R.T. -0.019 min

Lab File: VL041934.D

Acq: 20 Jan 2025 23:30

Instrument :

MSVOA_L

ClientSampleId :

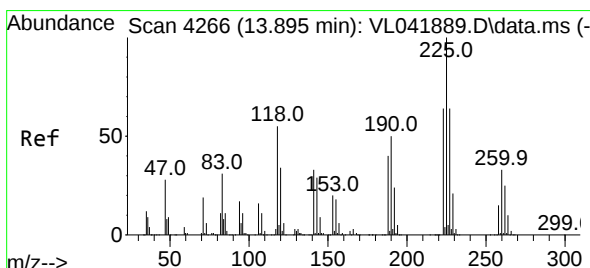
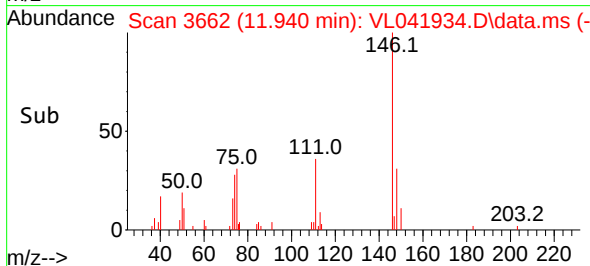
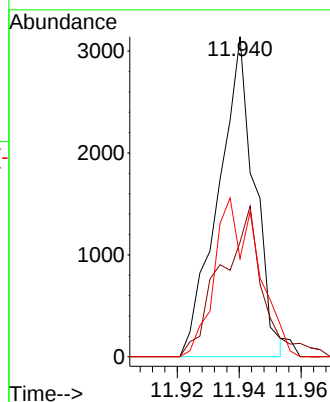
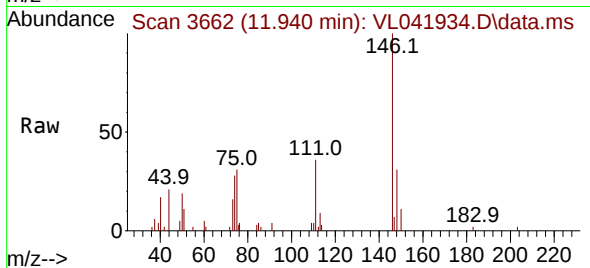
Tgt Ion:146 Resp: 2552

Ion Ratio Lower Upper

146 100

111 54.5 24.2 72.6

148 59.2 31.7 95.1



#78

Hexachloro-1,3-Butadiene

Concen: 0.099 ppbv

RT: 13.876 min Scan# 4260

Delta R.T. -0.019 min

Lab File: VL041934.D

Acq: 20 Jan 2025 23:30

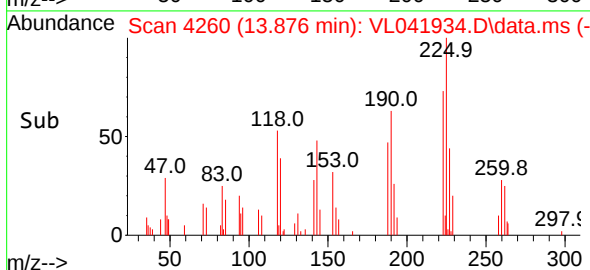
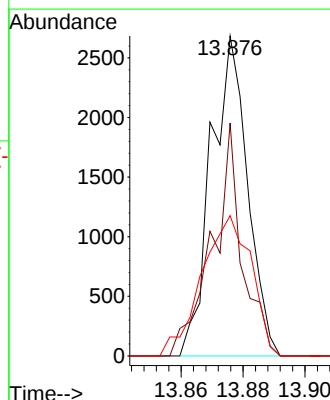
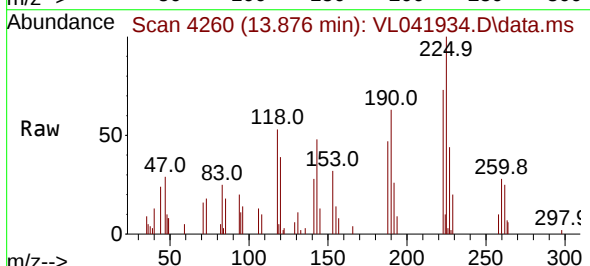
Tgt Ion:225 Resp: 2193

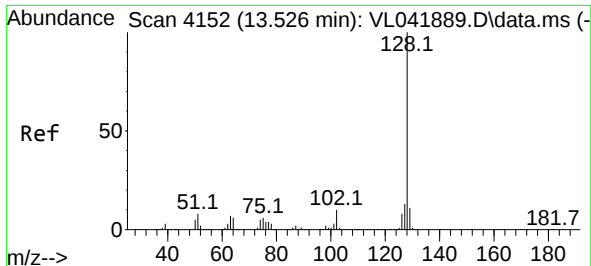
Ion Ratio Lower Upper

225 100

223 59.3 50.8 76.2

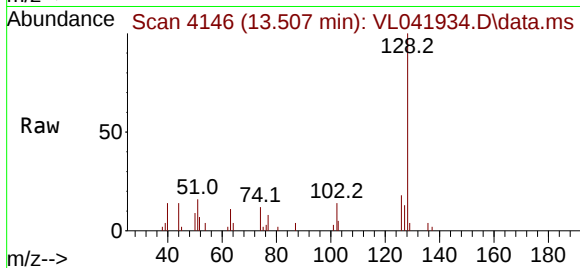
227 59.6 50.3 75.5



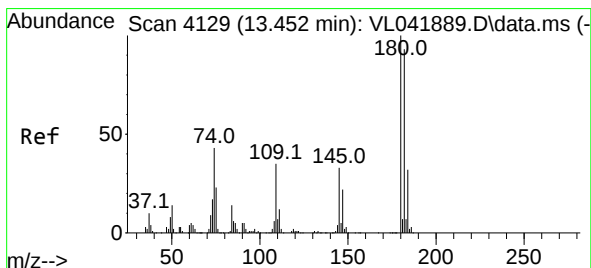
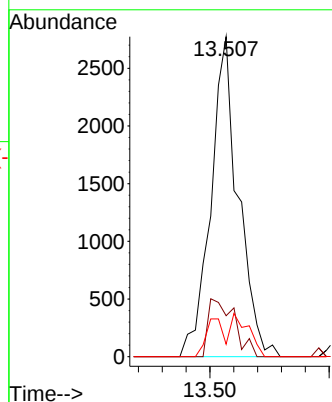
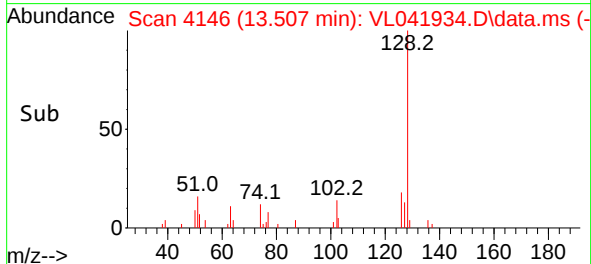


#79
Naphthalene
Concen: 0.048 ppbv
RT: 13.507 min Scan# 4152
Delta R.T. -0.019 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30

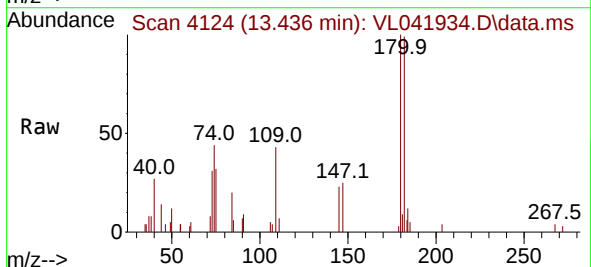
Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion:128 Resp: 2222
Ion Ratio Lower Upper
128 100
127 12.8 10.2 15.4
129 3.9 9.1 13.7#



#81
1,2,4-Trichlorobenzene
Concen: 0.071 ppbv
RT: 13.436 min Scan# 4124
Delta R.T. -0.016 min
Lab File: VL041934.D
Acq: 20 Jan 2025 23:30



Tgt Ion:180 Resp: 1605
Ion Ratio Lower Upper
180 100
182 97.8 77.0 115.6
184 28.2 24.9 37.3

