

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121924\
 Data File : VL041822.D
 Acq On : 19 Dec 2024 16:03
 Operator : SY/MD
 Sample : P5296-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 20 01:44:58 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	79681	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	183918	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	168308	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	136616	9.741	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.400%

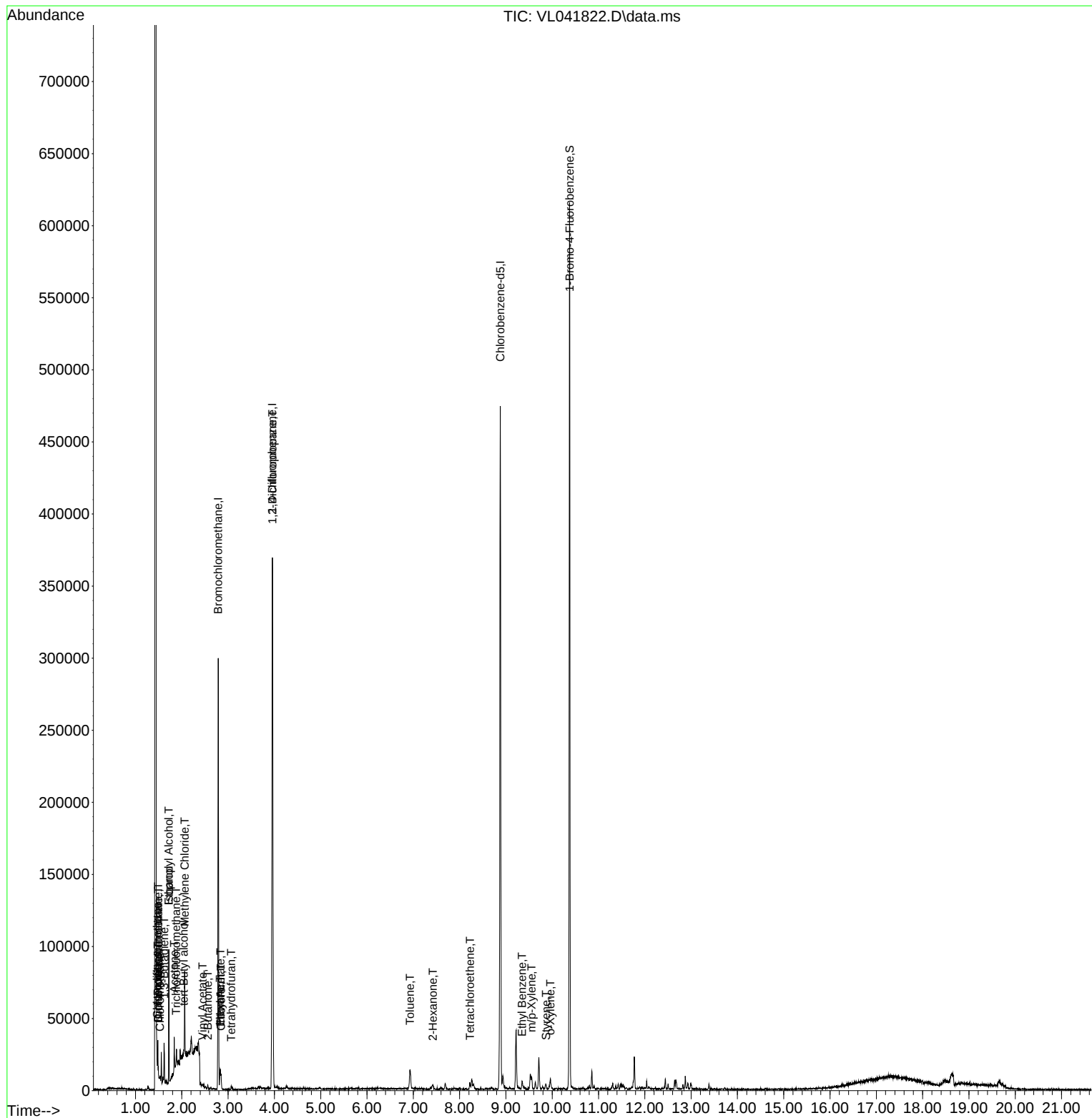
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.492	85	1651	0.116	ppbv #	87
3) Chlorodifluoromethane	1.470	51	1145	0.088	ppbv #	78
4) Chloromethane	1.528	50	494	0.089	ppbv #	61
8) Dichlorotetrafluoroethane	1.492	85	1651	0.130	ppbv #	20
9) Propene	1.483	41	1999	0.355	ppbv	84
11) Trichlorofluoromethane	1.877	101	850	0.056	ppbv	99
13) Ethanol	1.719	45	28937	62.048	ppbv	93
15) Acetone	1.835	43	10034	0.647	ppbv	98
16) 1,3-Butadiene	1.619	39	2927	0.479	ppbv #	19
17) tert-Butyl alcohol	2.043	59	1120	0.073	ppbv #	94
19) Isopropyl Alcohol	1.719	45	28937	3.111	ppbv #	42
20) Methylene Chloride	2.062	84	8069	1.825	ppbv	91
23) Vinyl Acetate	2.450	43	1079	0.150	ppbv #	7
25) Ethyl Acetate	2.836	43	1529	0.053	ppbv #	83
26) Hexane	2.826	57	2191	0.200	ppbv #	42
29) Chloroform	2.849	83	3066	0.184	ppbv	97
34) 2-Butanone	2.560	43	1670	0.113	ppbv #	89
39) 1,2-Dichloropropane	3.959	63	51610	7.501	ppbv #	17
41) Tetrahydrofuran	3.065	42	459	0.055	ppbv #	78
51) 2-Hexanone	7.425	43	1458	0.089	ppbv #	31
52) Tetrachloroethene	8.225	164	389	0.055	ppbv #	59
53) Toluene	6.927	91	4876	0.226	ppbv #	27
58) Ethyl Benzene	9.348	91	1705	0.056	ppbv	93
59) m/p-Xylene	9.552	91	1191	0.049	ppbv #	100
60) o-Xylene	9.963	91	2415	0.099	ppbv	100
61) Styrene	9.866	104	502	0.048	ppbv #	30

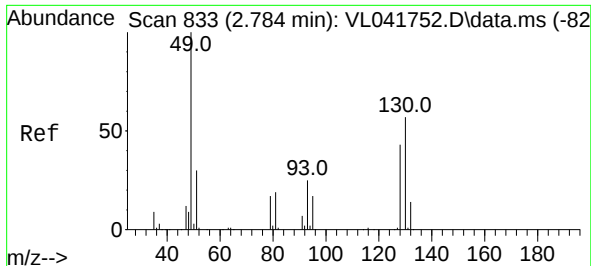
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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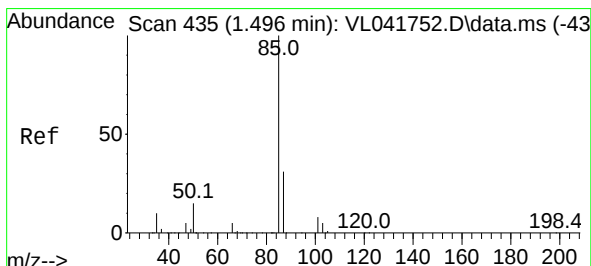
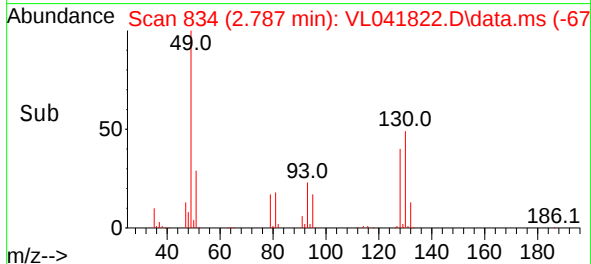
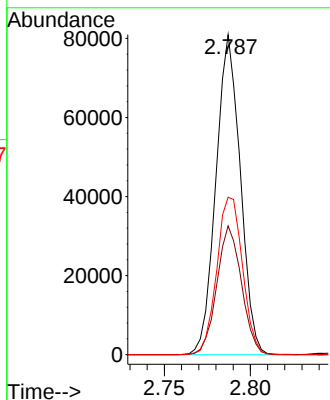
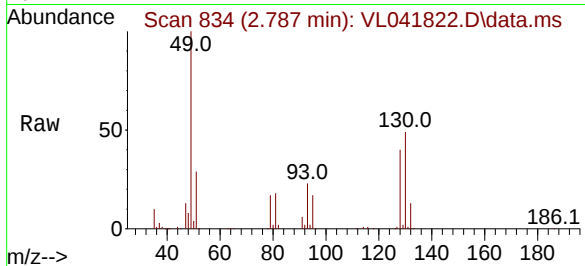




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. 0.003 min
Lab File: VL041822.D
Acq: 19 Dec 2024 16:03

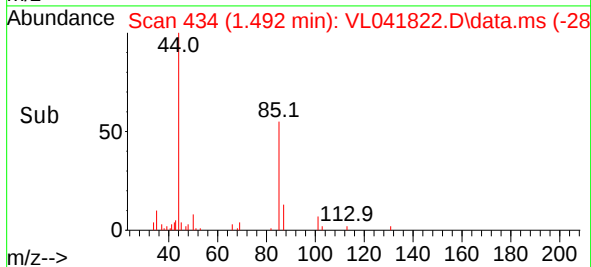
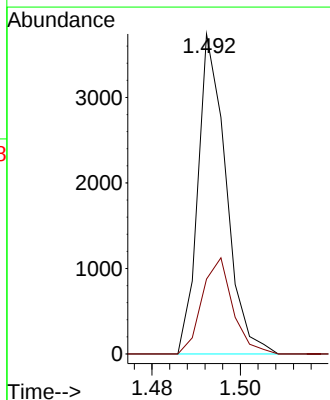
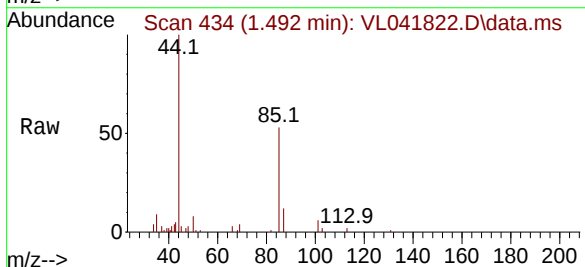
Instrument :
MSVOA_L
ClientSampleId :

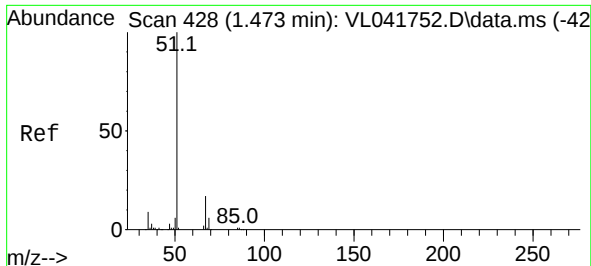
Tgt Ion: 49 Resp: 79681
Ion Ratio Lower Upper
49 100
128 40.6 21.6 64.6
130 52.1 28.3 85.0



#2
Dichlorodifluoromethane
Concen: 0.116 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.004 min
Lab File: VL041822.D
Acq: 19 Dec 2024 16:03

Tgt Ion: 85 Resp: 1651
Ion Ratio Lower Upper
85 100
87 23.4 24.5 36.7#

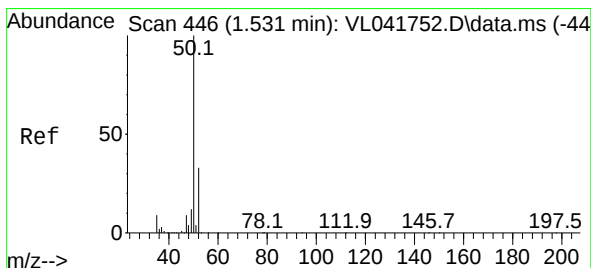
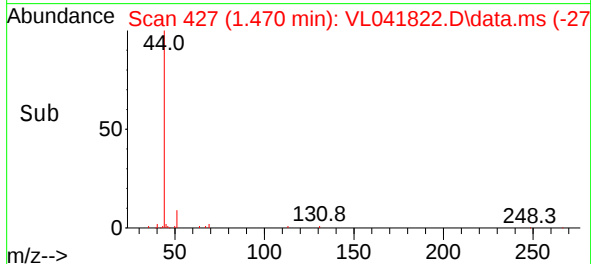
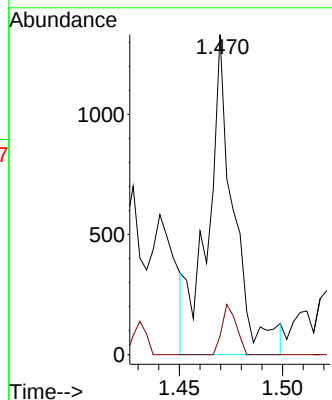
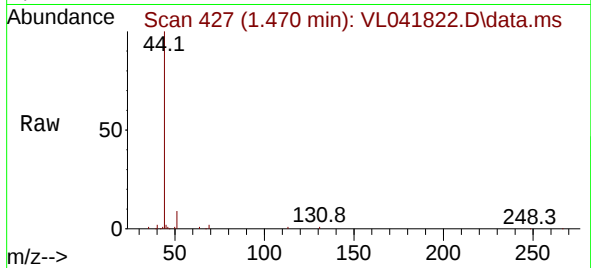




#3
Chlorodifluoromethane
Concen: 0.088 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.004 min
Lab File: VL041822.D
Acq: 19 Dec 2024 16:03

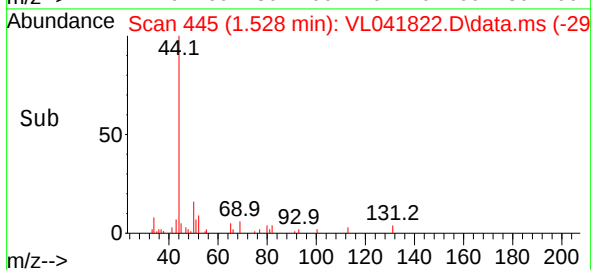
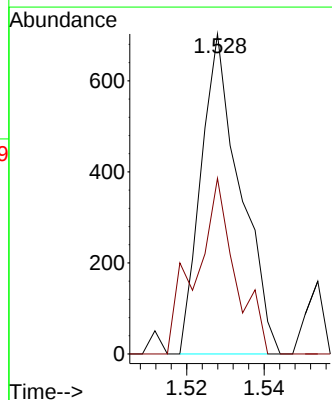
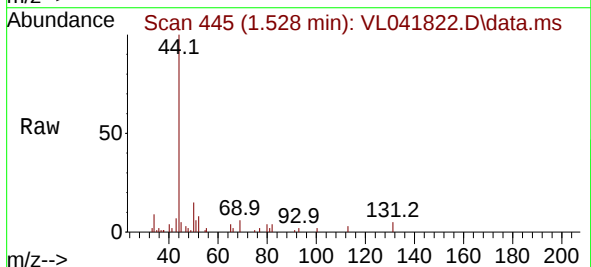
Instrument :
MSVOA_L
ClientSampleId :

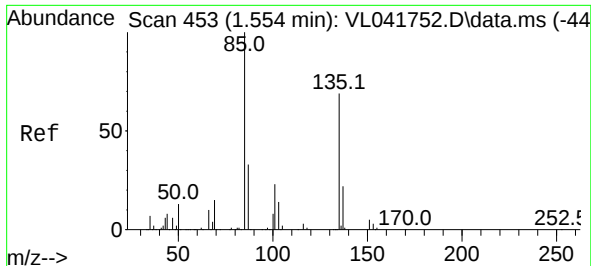
Tgt Ion: 51 Resp: 1145
Ion Ratio Lower Upper
51 100
67 8.9 15.0 22.4#



#4
Chloromethane
Concen: 0.089 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.004 min
Lab File: VL041822.D
Acq: 19 Dec 2024 16:03

Tgt Ion: 50 Resp: 494
Ion Ratio Lower Upper
50 100
52 54.9 26.2 39.2#

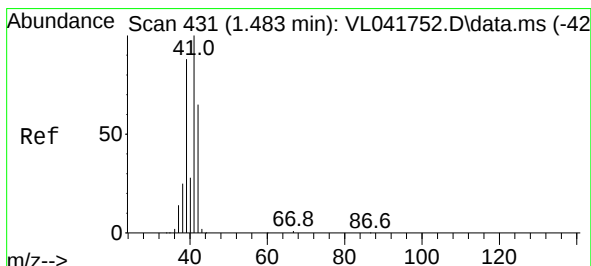
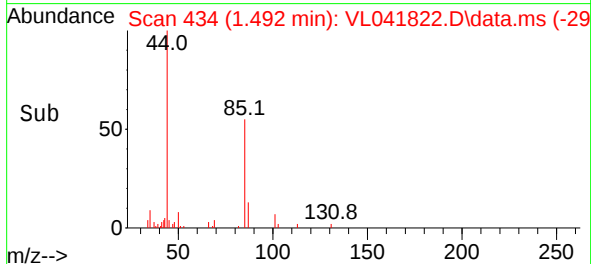
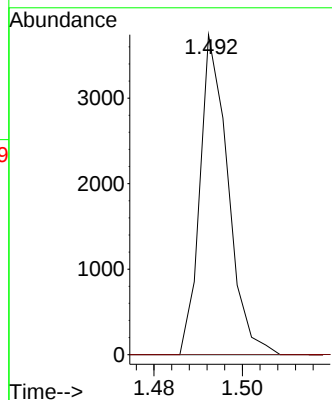
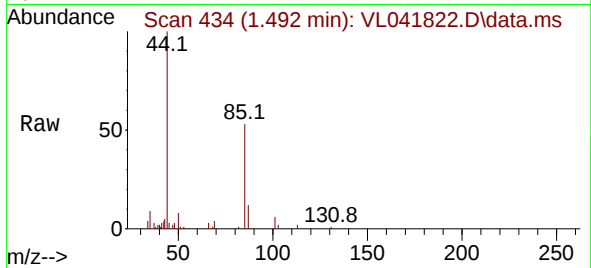




#8
 Dichlorotetrafluoroethane
 Concen: 0.130 ppbv
 RT: 1.492 min Scan# 41
 Delta R.T. -0.062 min
 Lab File: VL041822.D
 Acq: 19 Dec 2024 16:03

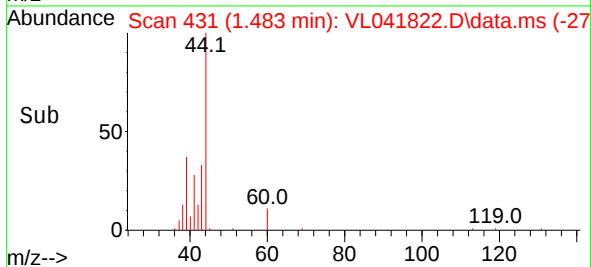
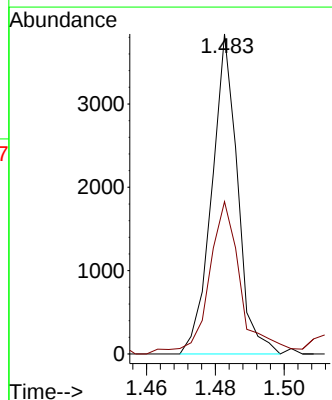
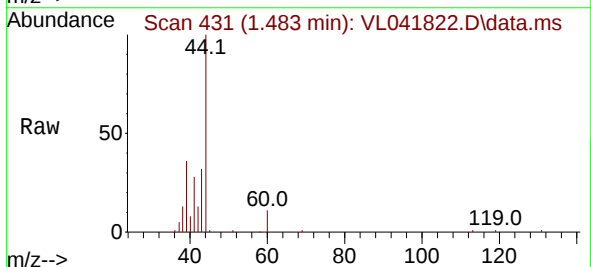
Instrument :
 MSVOA_L
 ClientSampleId :

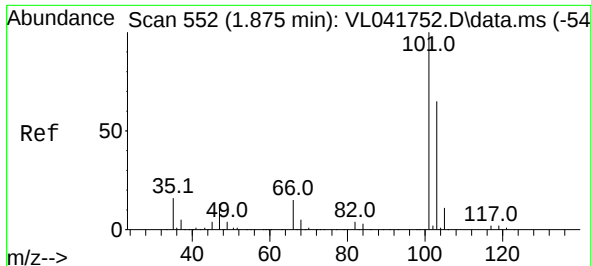
Tgt Ion: 85 Resp: 1651
 Ion Ratio Lower Upper
 85 100
 135 2.1 51.9 77.9#



#9
 Propene
 Concen: 0.355 ppbv
 RT: 1.483 min Scan# 431
 Delta R.T. -0.000 min
 Lab File: VL041822.D
 Acq: 19 Dec 2024 16:03

Tgt Ion: 41 Resp: 1999
 Ion Ratio Lower Upper
 41 100
 42 78.4 52.4 78.6





#11

Trichlorofluoromethane

Concen: 0.056 ppbv

RT: 1.877 min Scan# 504

Delta R.T. 0.003 min

Lab File: VL041822.D

Acq: 19 Dec 2024 16:03

Instrument :

MSVOA_L

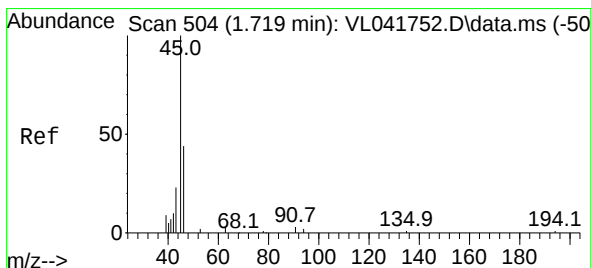
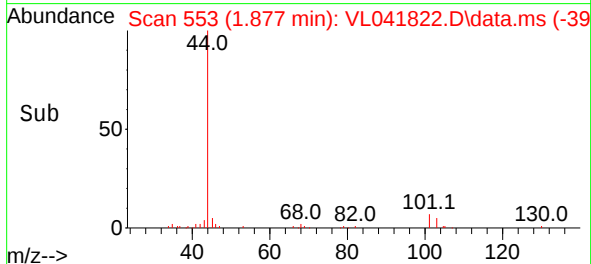
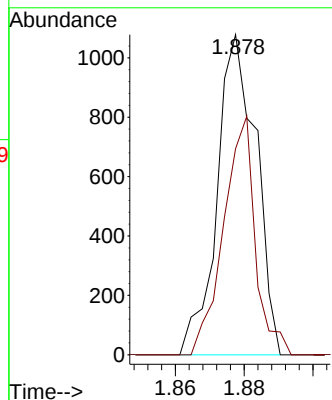
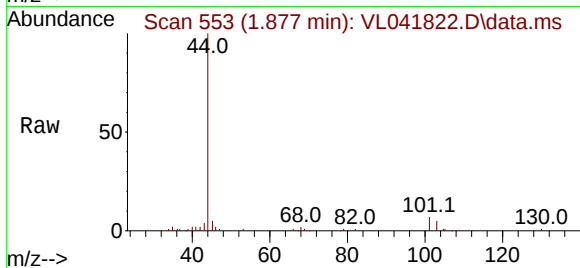
ClientSampleId :

Tgt Ion:101 Resp: 850

Ion Ratio Lower Upper

101 100

103 64.4 51.8 77.8



#13

Ethanol

Concen: 62.048 ppbv

RT: 1.719 min Scan# 504

Delta R.T. -0.000 min

Lab File: VL041822.D

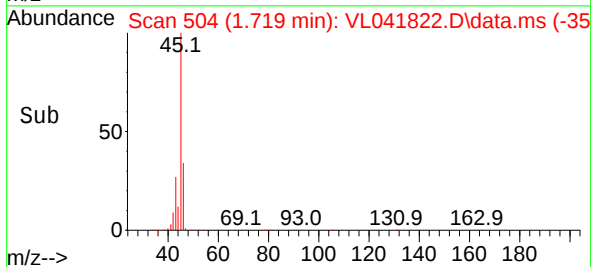
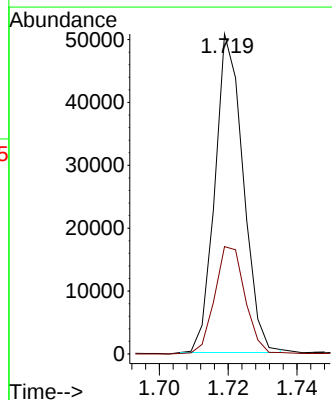
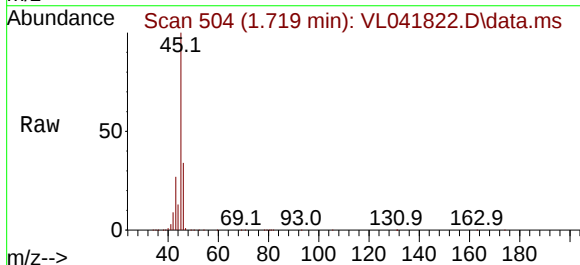
Acq: 19 Dec 2024 16:03

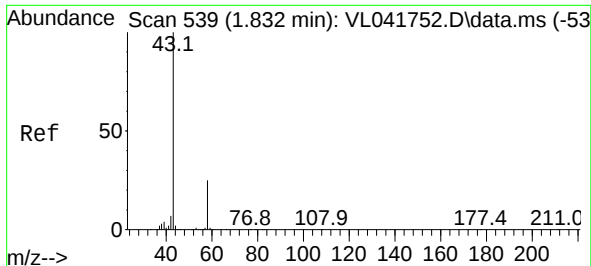
Tgt Ion: 45 Resp: 28937

Ion Ratio Lower Upper

45 100

46 36.8 16.4 65.8





#15

Acetone

Concen: 0.647 ppbv

RT: 1.835 min Scan# 54

Delta R.T. 0.003 min

Lab File: VL041822.D

Acq: 19 Dec 2024 16:03

Instrument :

MSVOA_L

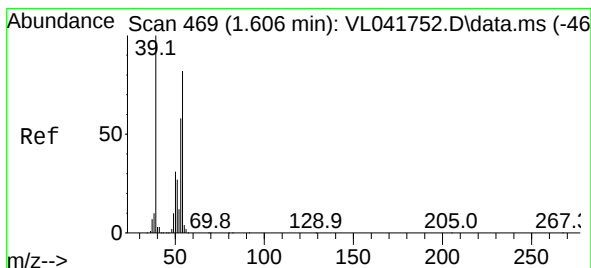
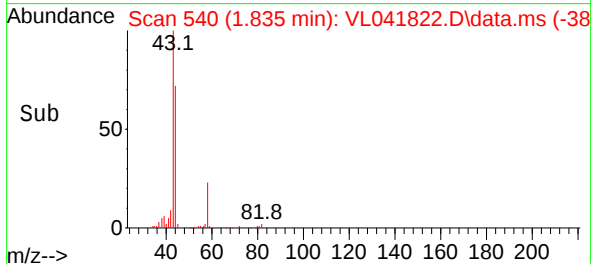
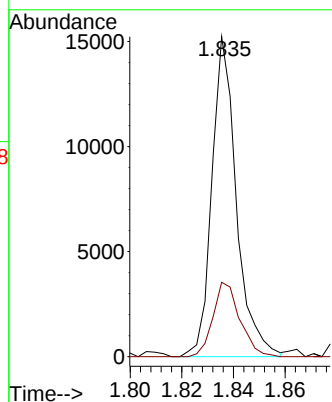
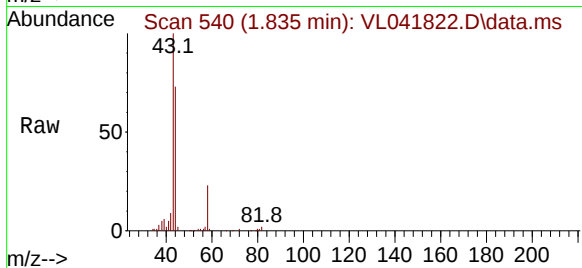
ClientSampleId :

Tgt Ion: 43 Resp: 10034

Ion Ratio Lower Upper

43 100

58 25.6 19.7 29.5



#16

1,3-Butadiene

Concen: 0.479 ppbv

RT: 1.619 min Scan# 473

Delta R.T. 0.013 min

Lab File: VL041822.D

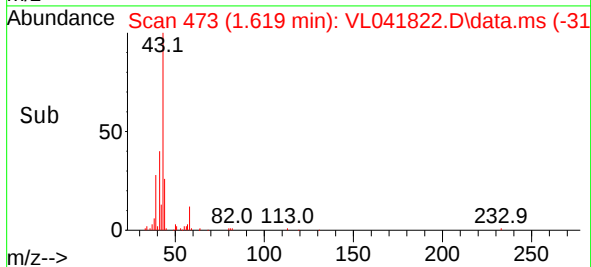
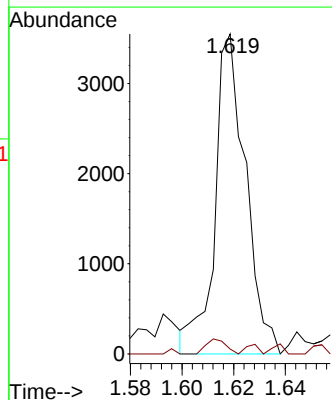
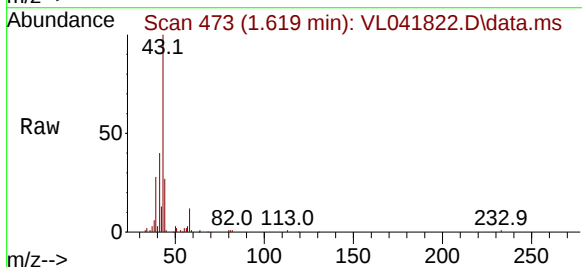
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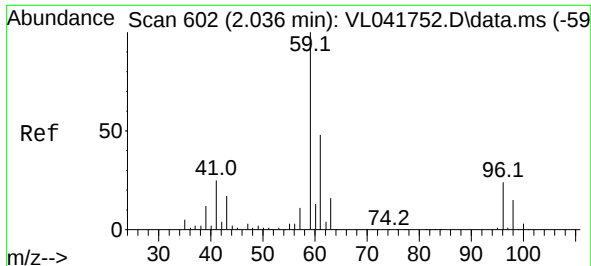
Tgt Ion: 39 Resp: 2927

Ion Ratio Lower Upper

39 100

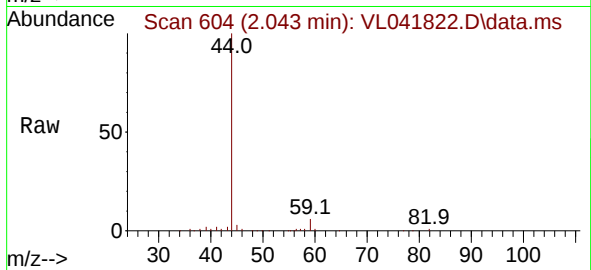
54 4.6 58.4 87.6#



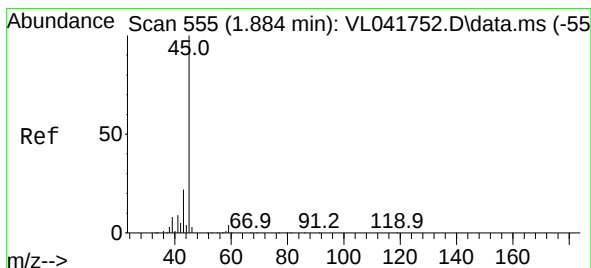
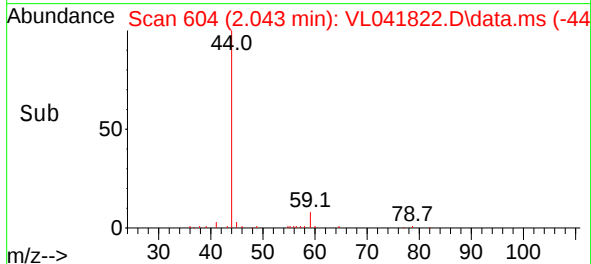
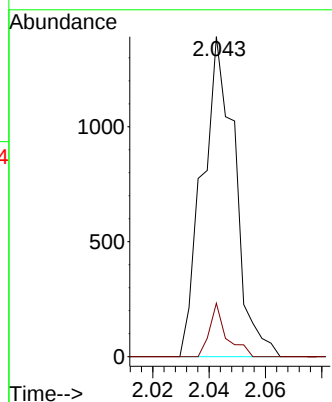


#17
tert-Butyl alcohol
Concen: 0.073 ppbv
RT: 2.043 min Scan# 602
Delta R.T. 0.006 min
Lab File: VL041822.D
Acq: 19 Dec 2024 16:03

Instrument :
MSVOA_L
ClientSampleId :

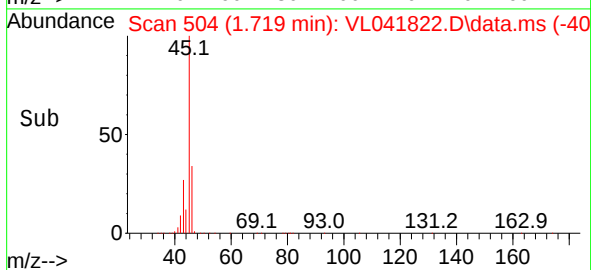
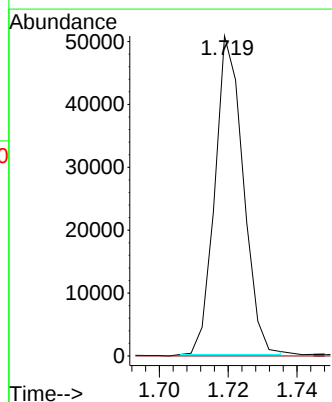
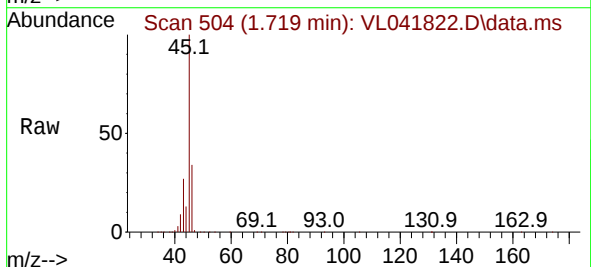


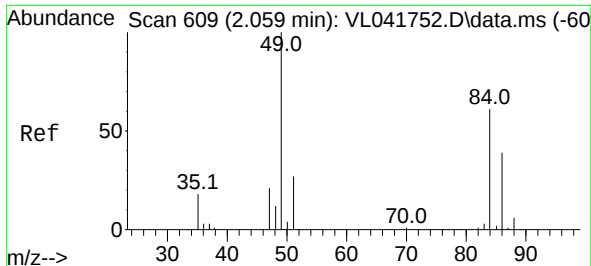
Tgt Ion: 59 Resp: 1120
Ion Ratio Lower Upper
59 100
57 8.6 8.6 13.0#



#19
Isopropyl Alcohol
Concen: 3.111 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.165 min
Lab File: VL041822.D
Acq: 19 Dec 2024 16:03

Tgt Ion: 45 Resp: 28937
Ion Ratio Lower Upper
45 100
58 5.0 33.3 49.9#





#20

Methylene Chloride

Concen: 1.825 ppbv

RT: 2.062 min Scan# 610

Delta R.T. 0.003 min

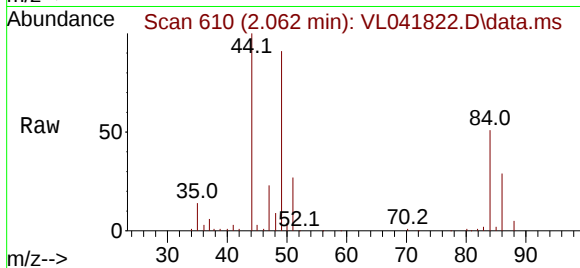
Lab File: VL041822.D

Acq: 19 Dec 2024 16:03

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 84 Resp: 8069

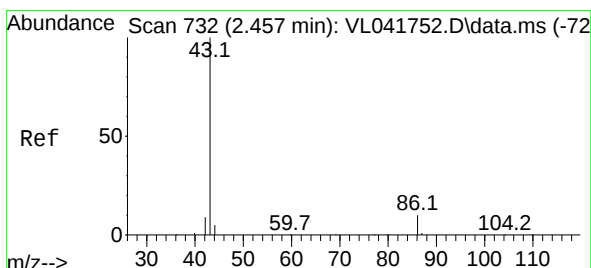
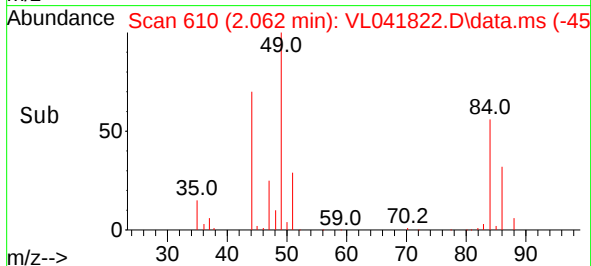
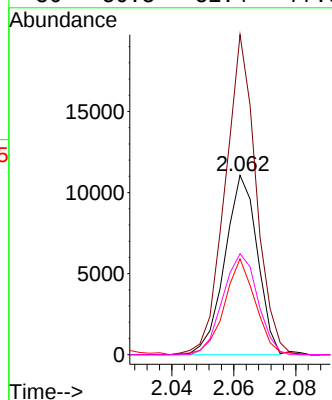
Ion Ratio Lower Upper

84 100

49 176.9 132.6 198.8

51 52.8 37.6 56.4

86 56.3 51.4 77.0



#23

Vinyl Acetate

Concen: 0.150 ppbv

RT: 2.450 min Scan# 730

Delta R.T. -0.007 min

Lab File: VL041822.D

Acq: 19 Dec 2024 16:03

Tgt Ion: 43 Resp: 1079

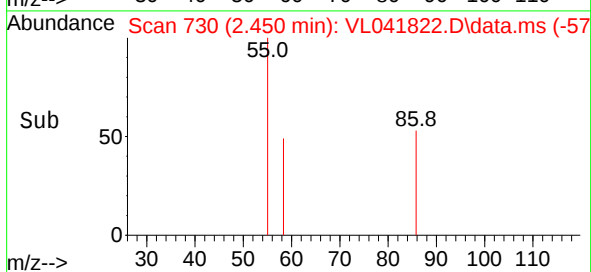
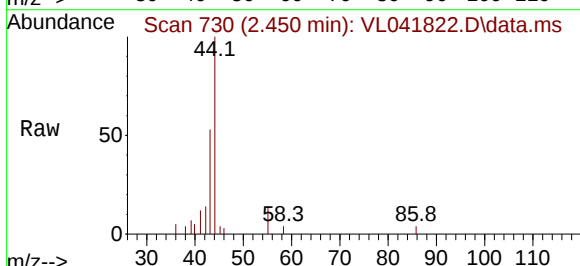
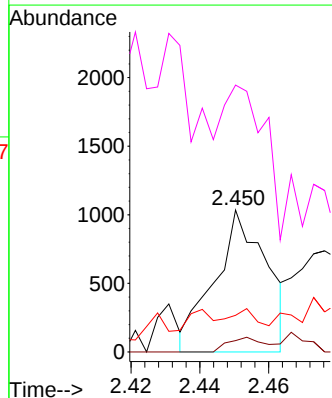
Ion Ratio Lower Upper

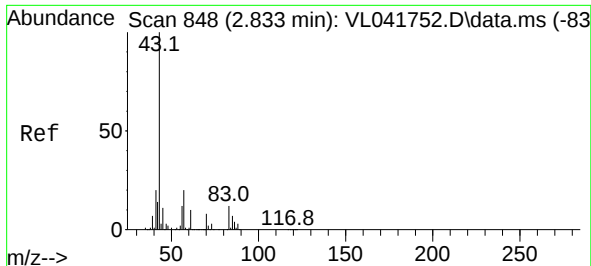
43 100

86 9.3 6.6 10.0

42 12.3 8.2 12.2#

44 126.7 5.0 7.4#





#25

Ethyl Acetate

Concen: 0.053 ppbv

RT: 2.836 min Scan# 84

Delta R.T. 0.003 min

Lab File: VL041822.D

Acq: 19 Dec 2024 16:03

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 43 Resp: 1529

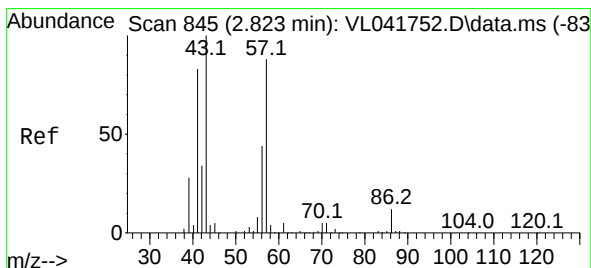
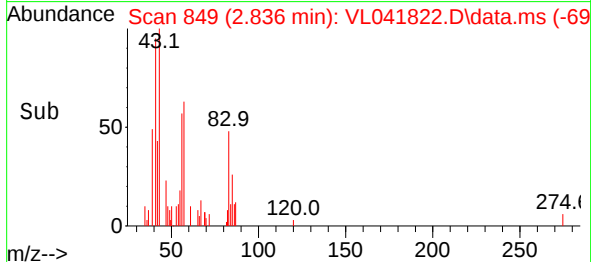
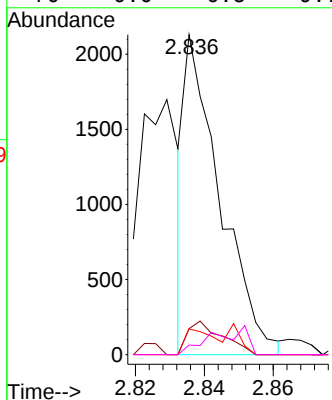
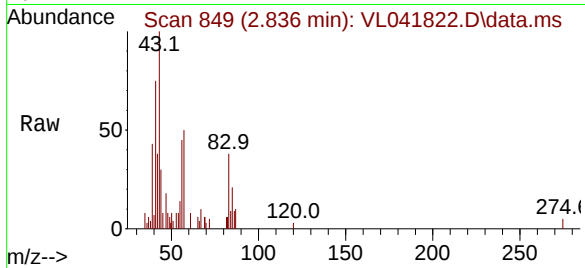
Ion Ratio Lower Upper

43 100

45 12.2 8.1 12.1#

61 0.0 7.0 10.6#

70 0.0 6.5 9.7#



#26

Hexane

Concen: 0.200 ppbv

RT: 2.826 min Scan# 846

Delta R.T. 0.003 min

Lab File: VL041822.D

Acq: 19 Dec 2024 16:03

Tgt Ion: 57 Resp: 2191

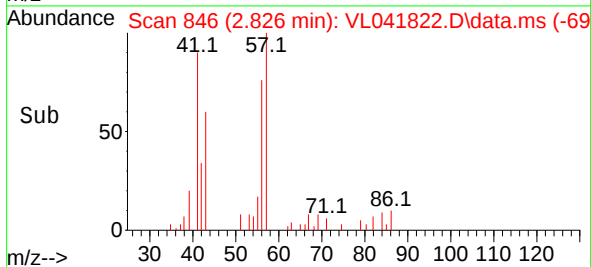
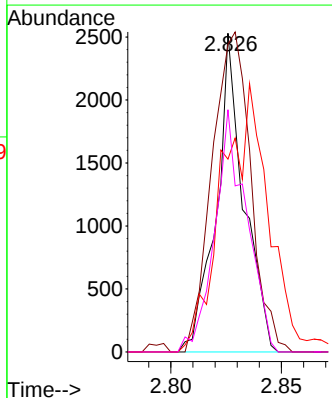
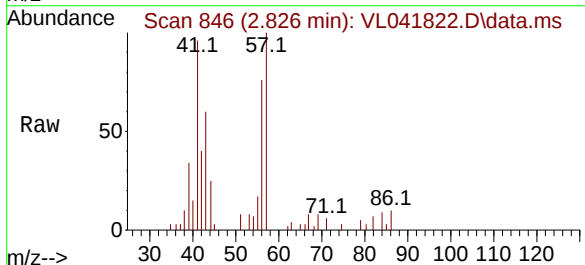
Ion Ratio Lower Upper

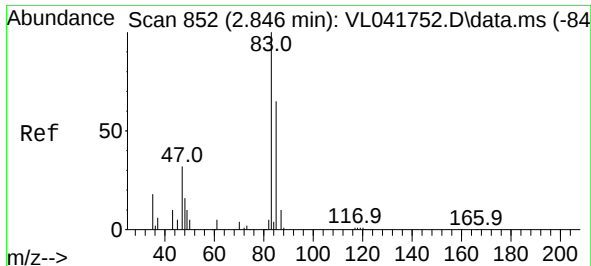
57 100

41 142.4 79.6 119.4#

43 144.1 211.0 316.6#

56 87.6 42.6 63.8#





#29

Chloroform

Concen: 0.184 ppbv

RT: 2.849 min Scan# 85

Delta R.T. 0.003 min

Lab File: VL041822.D

Acq: 19 Dec 2024 16:03

Instrument :

MSVOA_L

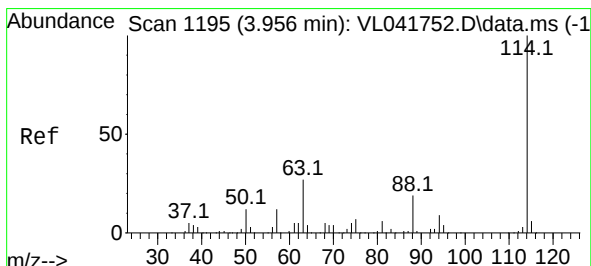
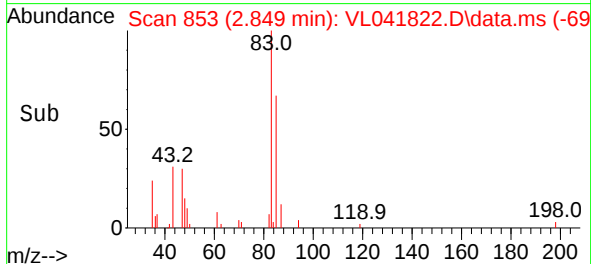
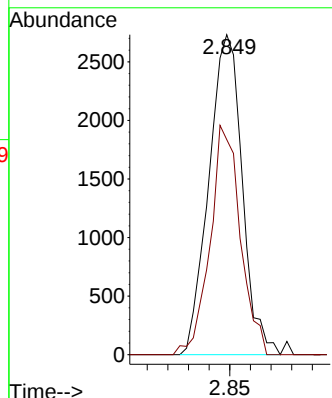
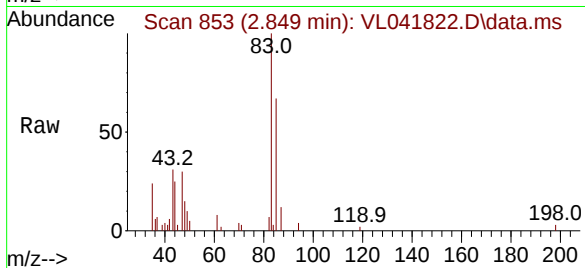
ClientSampleId :

Tgt Ion: 83 Resp: 3066

Ion Ratio Lower Upper

83 100

85 67.2 51.8 77.6



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.000 min

Lab File: VL041822.D

Acq: 19 Dec 2024 16:03

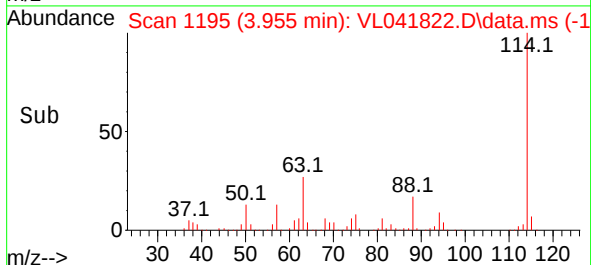
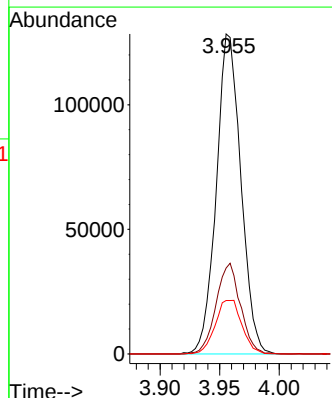
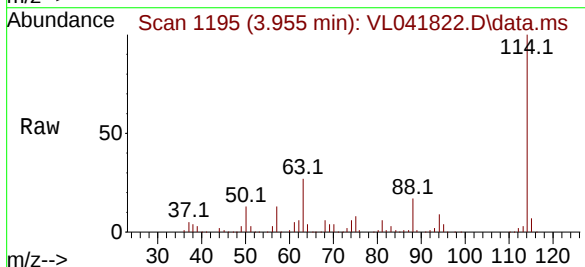
Tgt Ion: 114 Resp: 183918

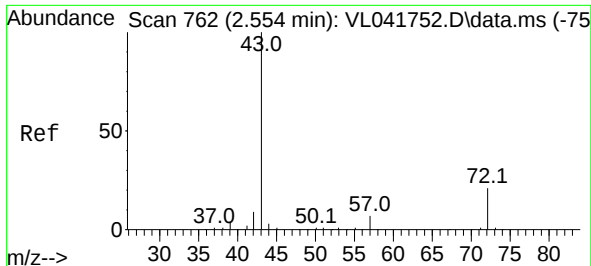
Ion Ratio Lower Upper

114 100

63 28.2 21.8 32.8

88 18.2 14.8 22.2

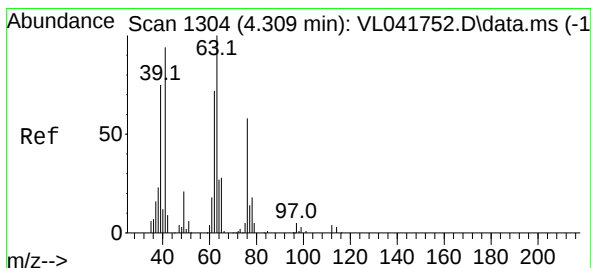
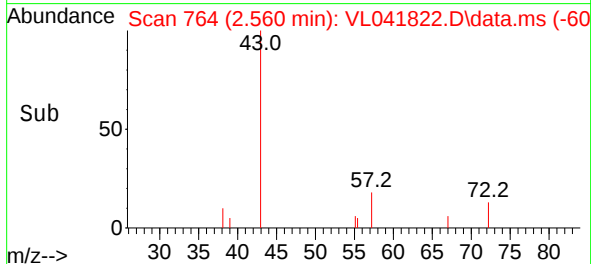
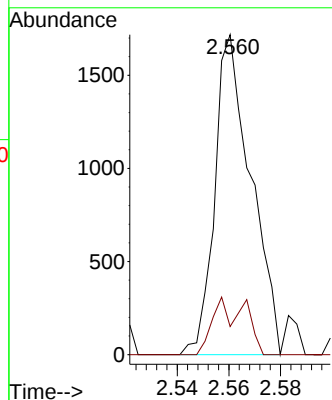
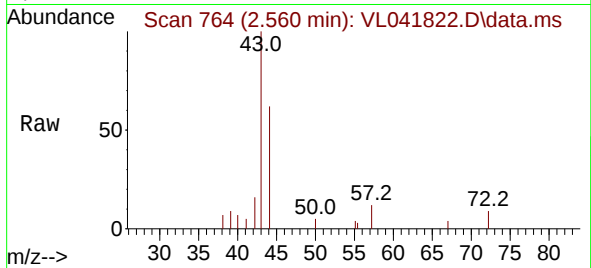




#34
2-Butanone
Concen: 0.113 ppbv
RT: 2.560 min Scan# 7
Delta R.T. 0.006 min
Lab File: VL041822.D
Acq: 19 Dec 2024 16:03

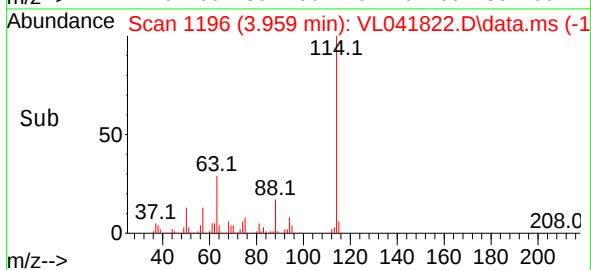
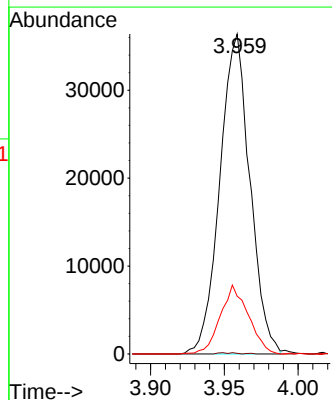
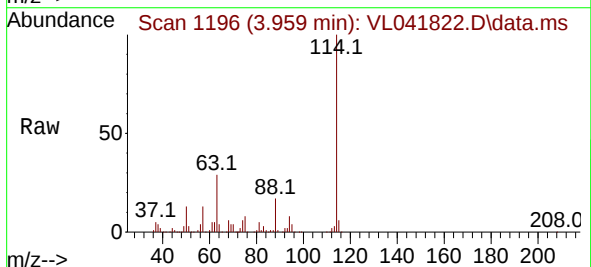
Instrument :
MSVOA_L
ClientSampleId :

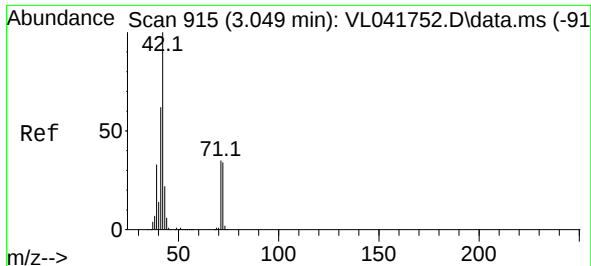
Tgt Ion: 43 Resp: 1670
Ion Ratio Lower Upper
43 100
72 15.8 16.8 25.2#



#39
1,2-Dichloropropane
Concen: 7.501 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.350 min
Lab File: VL041822.D
Acq: 19 Dec 2024 16:03

Tgt Ion: 63 Resp: 51610
Ion Ratio Lower Upper
63 100
41 0.2 75.3 112.9#
62 18.1 57.3 85.9#





#41

Tetrahydrofuran

Concen: 0.055 ppbv

RT: 3.065 min Scan# 91

Delta R.T. 0.016 min

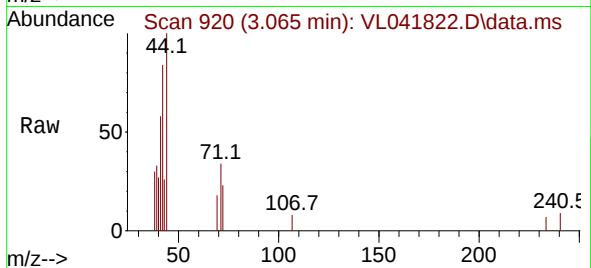
Lab File: VL041822.D

Acq: 19 Dec 2024 16:03

Instrument :

MSVOA_L

ClientSampleId :



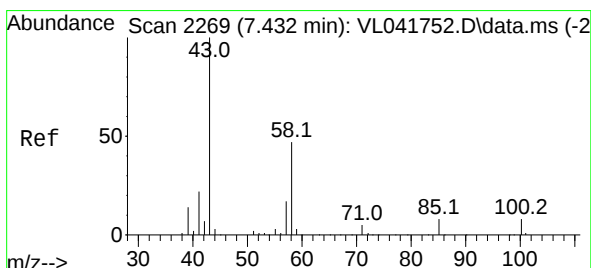
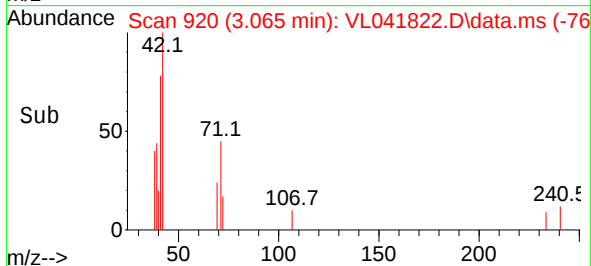
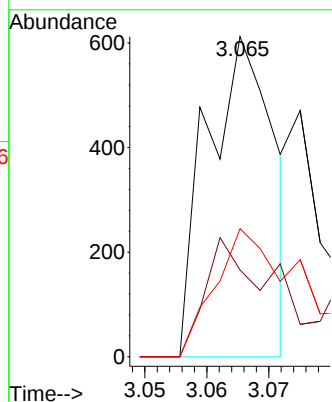
Tgt Ion: 42 Resp: 459

Ion	Ratio	Lower	Upper
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42	100		
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72	47.9	29.1	43.7#
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71	50.3	28.4	42.6#
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#51

2-Hexanone

Concen: 0.089 ppbv

RT: 7.425 min Scan# 2267

Delta R.T. -0.007 min

Lab File: VL041822.D

Acq: 19 Dec 2024 16:03

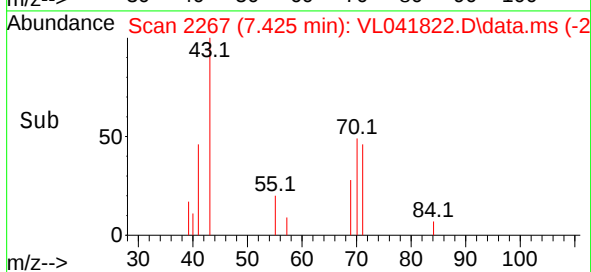
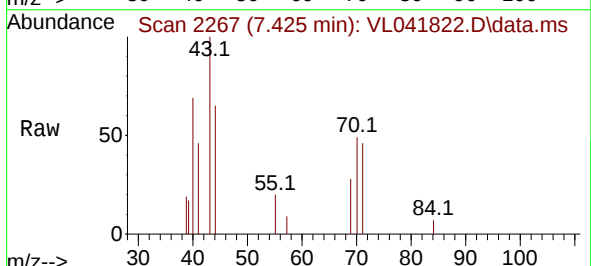
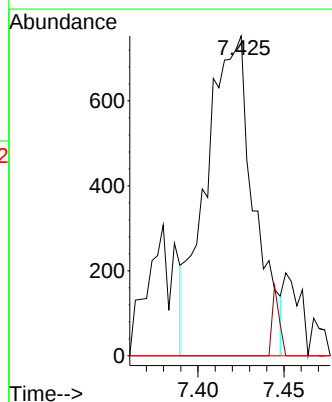
Tgt Ion: 43 Resp: 1458

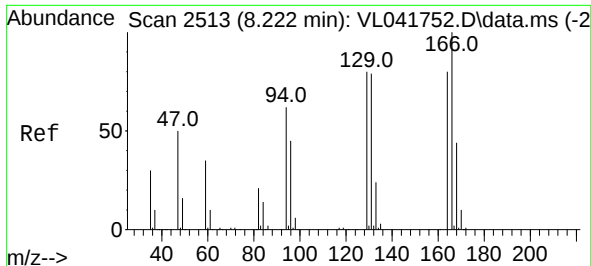
Ion	Ratio	Lower	Upper
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43	100		
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58	0.0	36.6	55.0#
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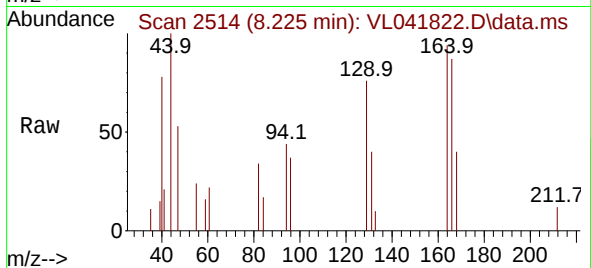
98	0.0	0.1	0.1#
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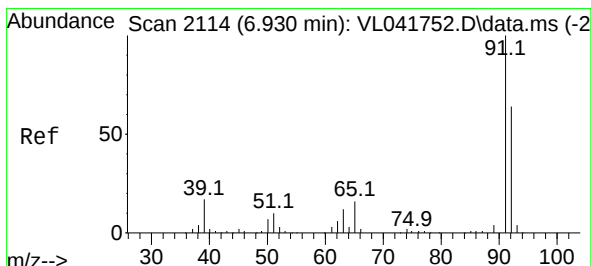
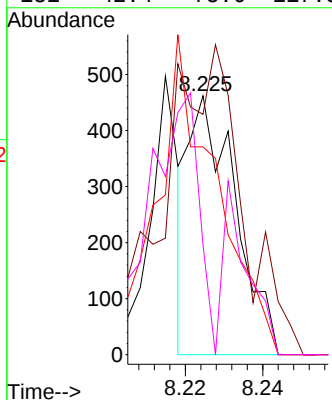
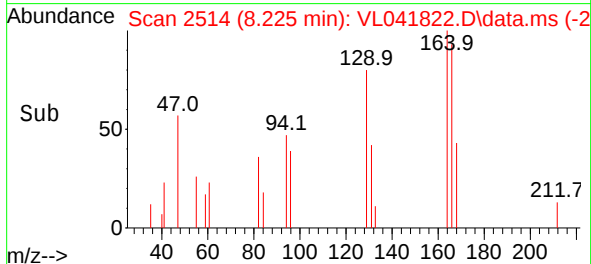


#52
Tetrachloroethene
Concen: 0.055 ppbv
RT: 8.225 min Scan# 2113
Delta R.T. 0.003 min
Lab File: VL041822.D
Acq: 19 Dec 2024 16:03

Instrument :
MSVOA_L
ClientSampleId :

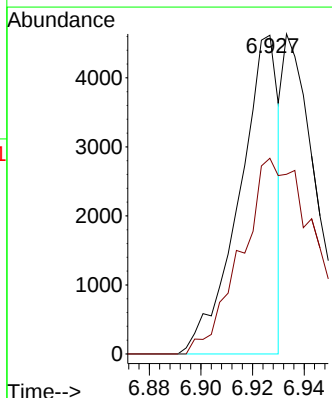
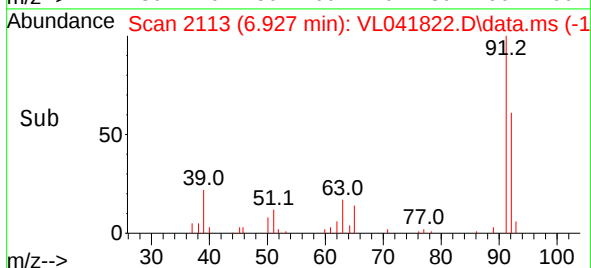
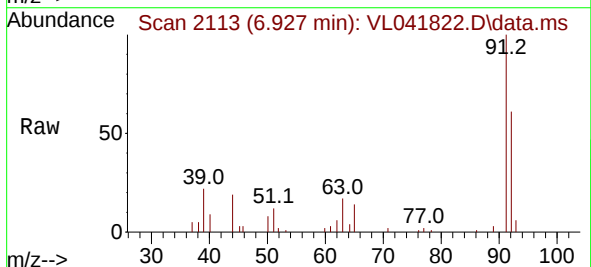


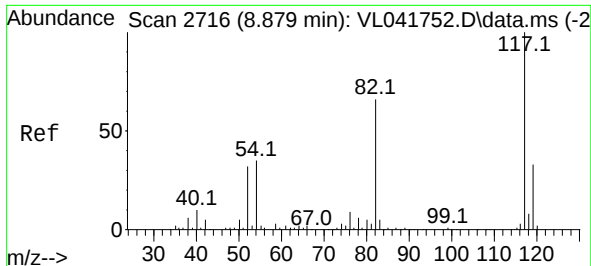
Tgt Ion:164 Resp: 389
Ion Ratio Lower Upper
164 100
166 72.3 99.8 149.6#
129 80.3 79.6 119.4
131 42.4 78.6 117.8#



#53
Toluene
Concen: 0.226 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.004 min
Lab File: VL041822.D
Acq: 19 Dec 2024 16:03

Tgt Ion: 91 Resp: 4876
Ion Ratio Lower Upper
91 100
92 114.8 47.9 71.9#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 21

Delta R.T. -0.000 min

Lab File: VL041822.D

Acq: 19 Dec 2024 16:03

Instrument :

MSVOA_L

ClientSampleId :

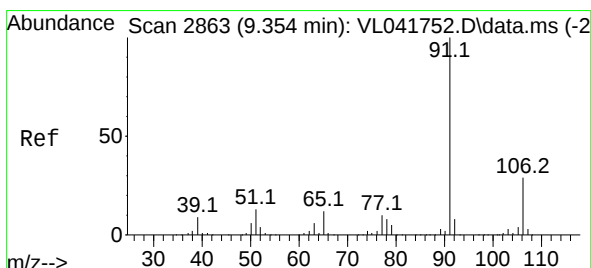
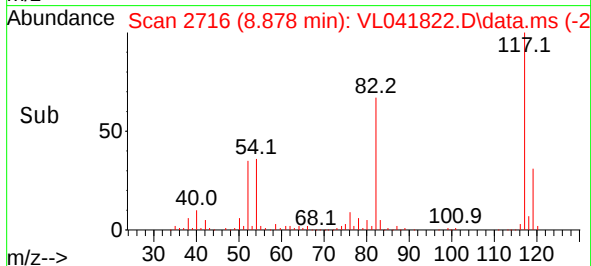
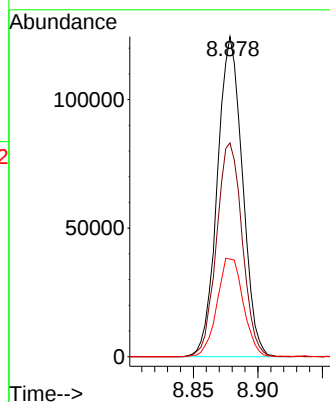
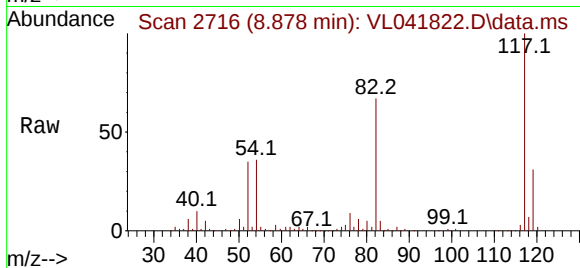
Tgt Ion:117 Resp: 168308

Ion Ratio Lower Upper

117 100

82 68.4 53.8 80.8

119 32.3 26.7 40.1



#58

Ethyl Benzene

Concen: 0.056 ppbv

RT: 9.348 min Scan# 2861

Delta R.T. -0.007 min

Lab File: VL041822.D

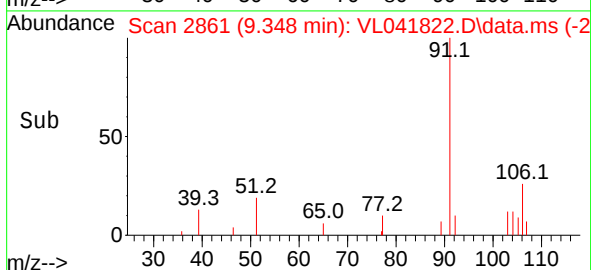
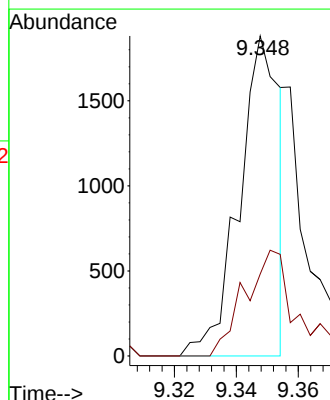
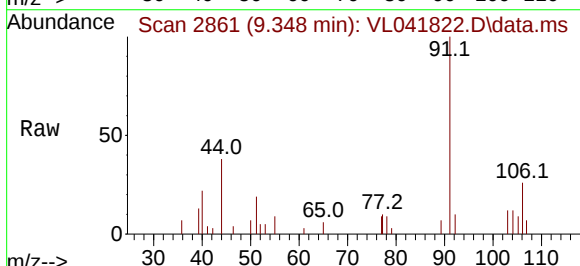
Acq: 19 Dec 2024 16:03

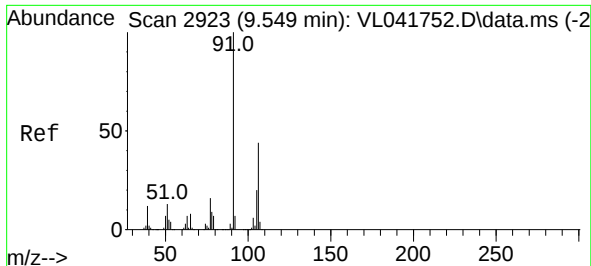
Tgt Ion: 91 Resp: 1705

Ion Ratio Lower Upper

91 100

106 25.6 23.5 35.3





#59

m/p-Xylene

Concen: 0.049 ppbv

RT: 9.552 min Scan# 2923

Delta R.T. 0.003 min

Lab File: VL041822.D

Acq: 19 Dec 2024 16:03

Instrument :

MSVOA_L

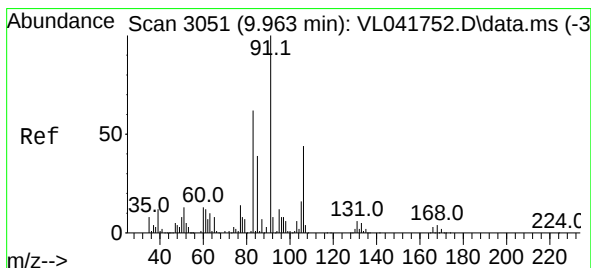
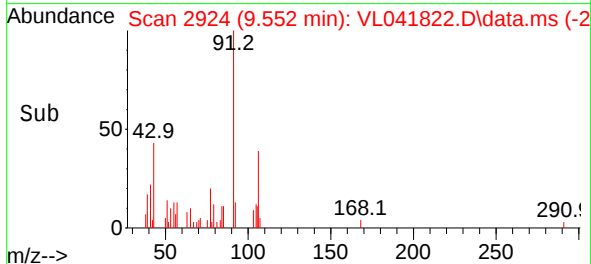
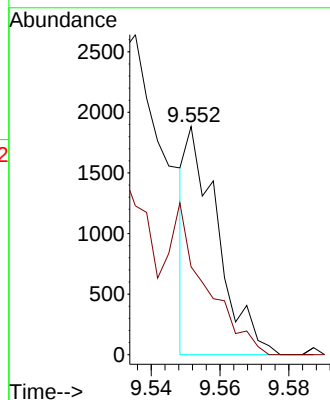
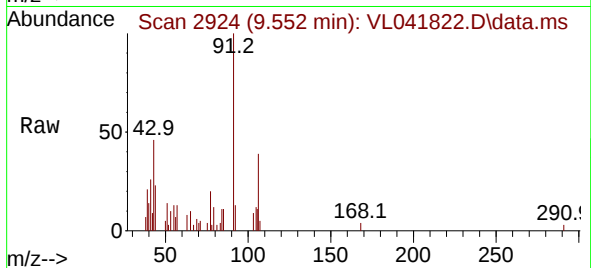
ClientSampleId :

Tgt Ion: 91 Resp: 1191

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0



#60

o-Xylene

Concen: 0.099 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.000 min

Lab File: VL041822.D

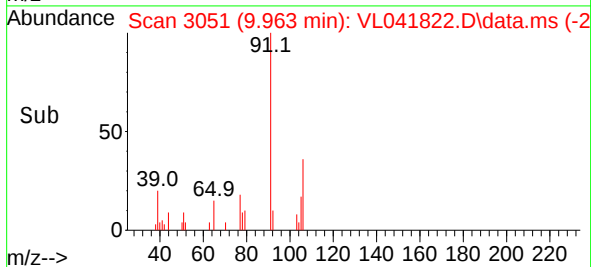
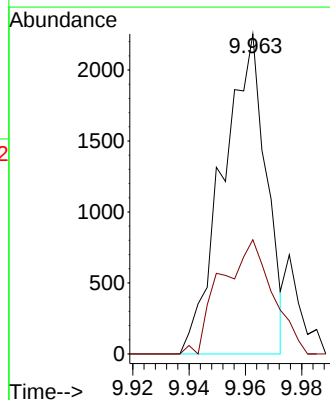
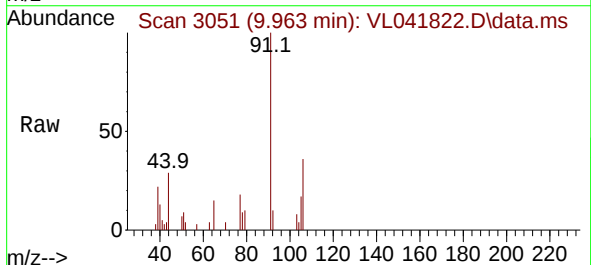
Acq: 19 Dec 2024 16:03

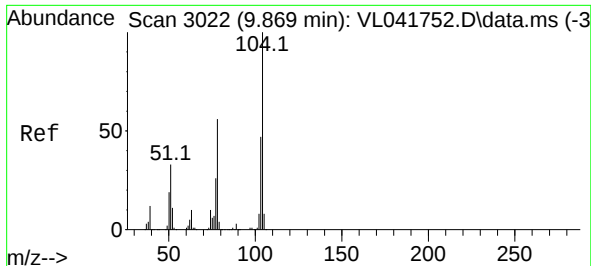
Tgt Ion: 91 Resp: 2415

Ion Ratio Lower Upper

91 100

106 42.2 21.1 63.4

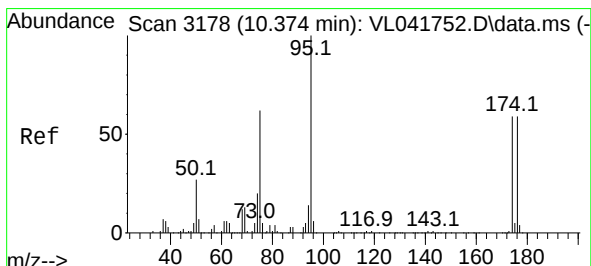
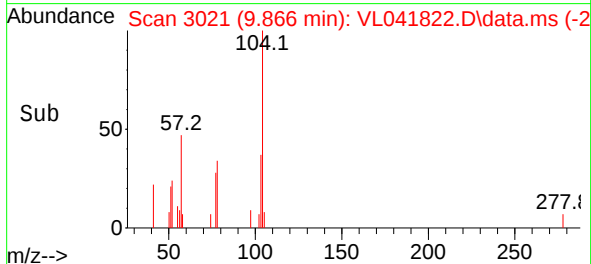
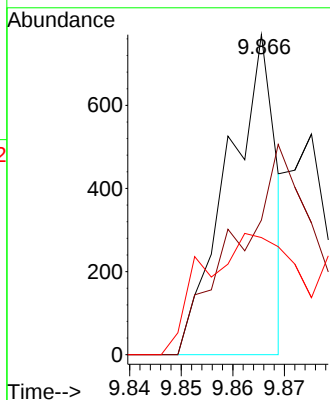
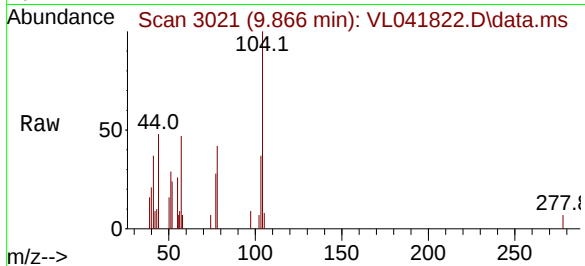




#61
Styrene
Concen: 0.048 ppbv
RT: 9.866 min Scan# 3022
Delta R.T. -0.004 min
Lab File: VL041822.D
Acq: 19 Dec 2024 16:03

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:104 Resp: 502
Ion Ratio Lower Upper
104 100
78 115.9 43.8 65.6#
103 82.1 37.8 56.6#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.741 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.000 min
Lab File: VL041822.D
Acq: 19 Dec 2024 16:03

Tgt Ion: 95 Resp: 136616
Ion Ratio Lower Upper
95 100
174 59.2 47.6 71.4
175 4.6 3.7 5.5

