

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
 Data File : VL041748.D
 Acq On : 12 Dec 2024 13:10
 Operator : SY/MD
 Sample : P5150-05
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 12 14:23:54 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 12 13:35:39 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.774	49	237429	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.942	114	1121250	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.869	117	991065	10.000	ppbv	-0.03

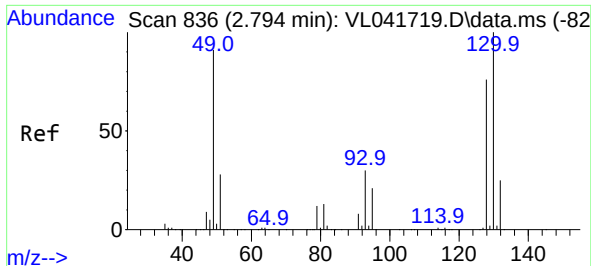
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	660020	10.130	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.300%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.492	85	21357	0.512	ppbv	95
3) Chlorodifluoromethane	1.460	51	28174	0.872	ppbv #	72
4) Chloromethane	1.525	50	4731	0.428	ppbv	98
9) Propene	1.612	41	2858	0.207	ppbv	95
10) Heptane	4.952	43	4551	0.119	ppbv	93
11) Trichlorofluoromethane	1.868	101	11101	0.231	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.130	101	2945	0.068	ppbv	95
13) Ethanol	1.722	45	40338	35.384	ppbv	96
15) Acetone	1.829	43	64714	2.361	ppbv	99
16) 1,3-Butadiene	1.589	39	931	0.101	ppbv #	61
17) tert-Butyl alcohol	2.046	59	1709	0.043	ppbv #	62
19) Isopropyl Alcohol	1.887	45	11675	0.448	ppbv #	1
20) Methylene Chloride	2.052	84	224356	13.512	ppbv	98
23) Vinyl Acetate	2.444	43	2575	0.155	ppbv #	62
25) Ethyl Acetate	4.952	43	4551	0.119	ppbv #	95
26) Hexane	2.813	57	88104	2.384	ppbv #	45
29) Chloroform	2.839	83	22812	0.403	ppbv	99
34) 2-Butanone	2.551	43	14521	0.370	ppbv	99
35) Carbon Tetrachloride	3.752	117	2786	0.053	ppbv #	78
36) Benzene	3.642	78	8522	0.097	ppbv #	94
38) Trichloroethene	4.528	130	42924	0.939	ppbv	97
39) 1,2-Dichloropropane	3.939	63	187156	6.663	ppbv #	32
41) Tetrahydrofuran	3.065	42	884	0.037	ppbv	93
52) Tetrachloroethene	8.208	164	118547	2.538	ppbv	99
53) Toluene	6.914	91	30351	0.280	ppbv	100
58) Ethyl Benzene	9.341	91	4355	0.033	ppbv	98
60) o-Xylene	9.522	91	7178	0.071	ppbv	83
74) 1,2,4-Trimethylbenzene	11.529	105	6322	0.055	ppbv #	67
79) Naphthalene	13.510	128	5166	0.053	ppbv #	88

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

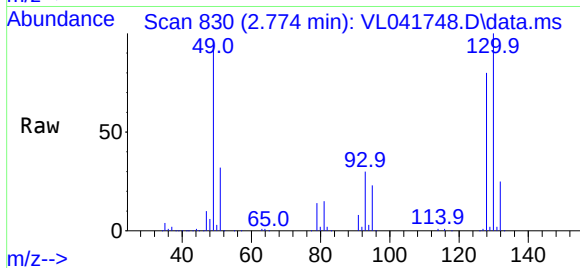
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Dec 12 13:35:39 2024
Response via : Initial Calibration



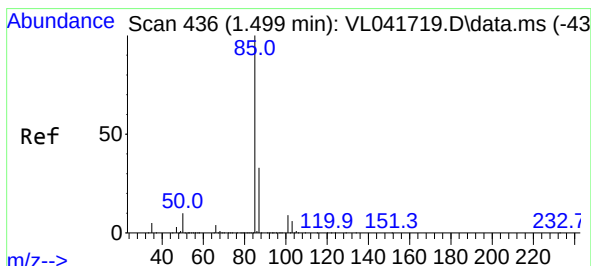
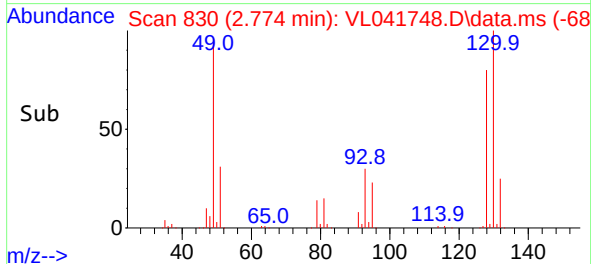
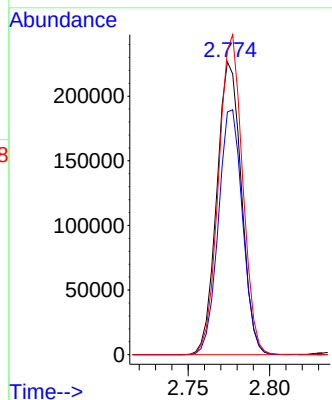


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.774 min Scan# 81
Delta R.T. -0.020 min
Lab File: VL041748.D
Acq: 12 Dec 2024 13:10

Instrument :
MSVOA_L
ClientSampleId :

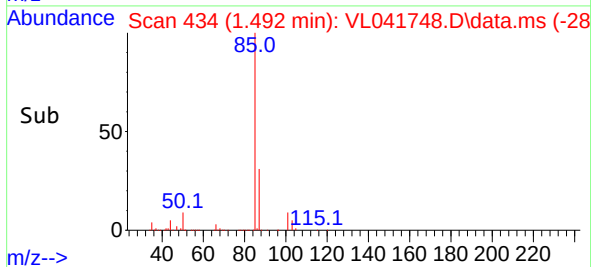
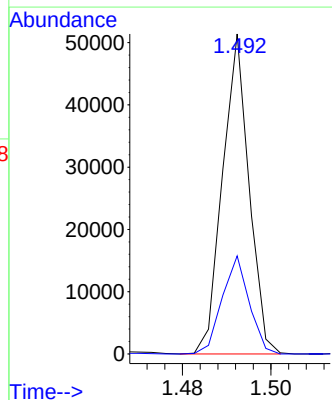
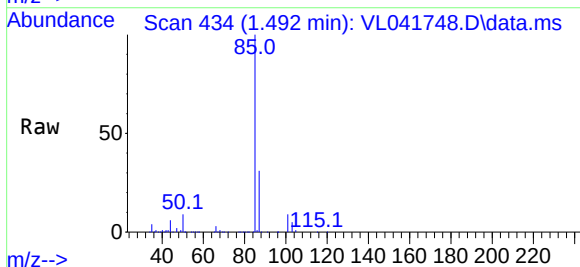


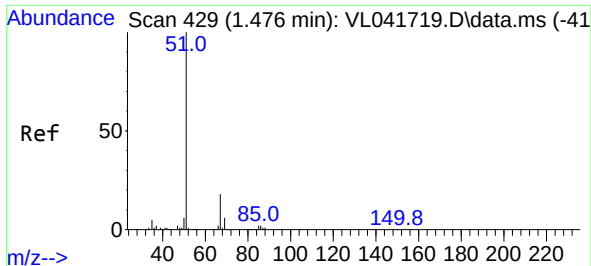
Tgt Ion: 49 Resp: 237429
Ion Ratio Lower Upper
49 100
128 82.5 42.8 128.3
130 106.6 55.8 167.4



#2
Dichlorodifluoromethane
Concen: 0.512 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.006 min
Lab File: VL041748.D
Acq: 12 Dec 2024 13:10

Tgt Ion: 85 Resp: 21357
Ion Ratio Lower Upper
85 100
87 30.6 26.6 39.8

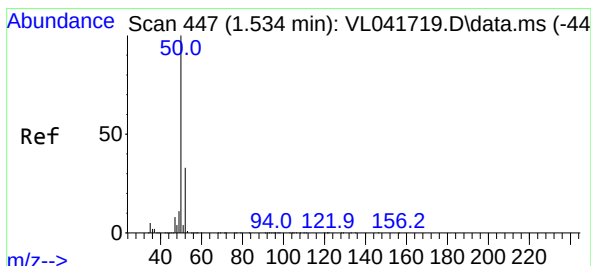
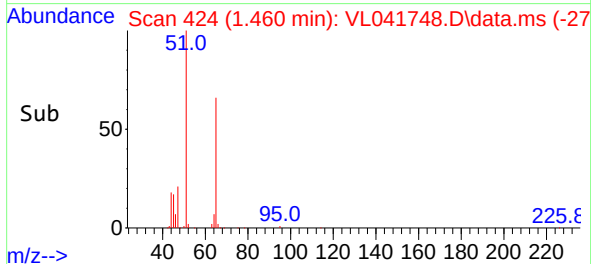
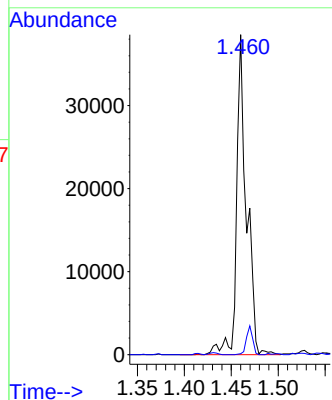
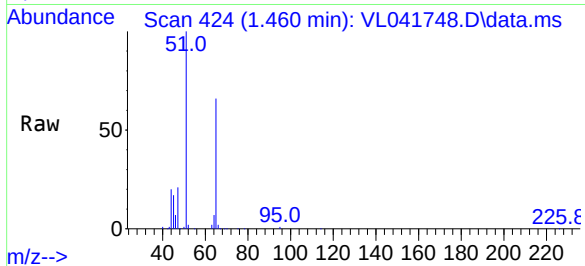




#3
Chlorodifluoromethane
Concen: 0.872 ppbv
RT: 1.460 min Scan# 41
Delta R.T. -0.016 min
Lab File: VL041748.D
Acq: 12 Dec 2024 13:10

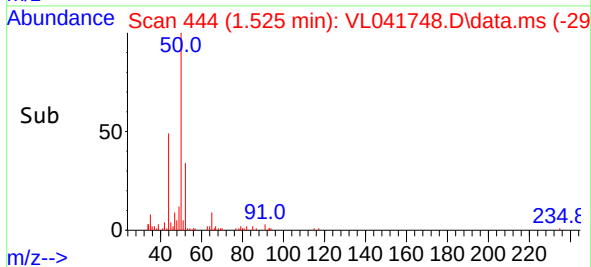
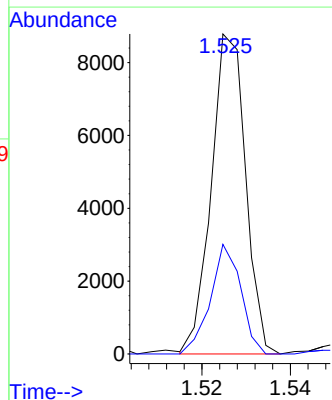
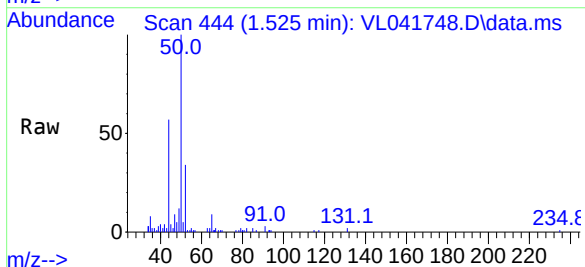
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MSVOA_L
ClientSampleId :

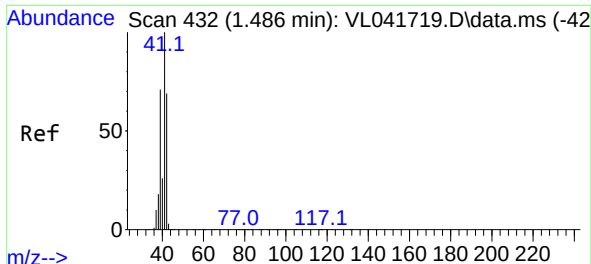
Tgt Ion: 51 Resp: 28174
Ion Ratio Lower Upper
51 100
67 5.8 14.6 21.8#



#4
Chloromethane
Concen: 0.428 ppbv
RT: 1.525 min Scan# 444
Delta R.T. -0.010 min
Lab File: VL041748.D
Acq: 12 Dec 2024 13:10

Tgt Ion: 50 Resp: 4731
Ion Ratio Lower Upper
50 100
52 34.5 26.6 40.0

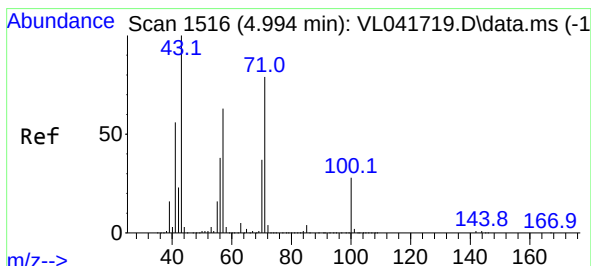
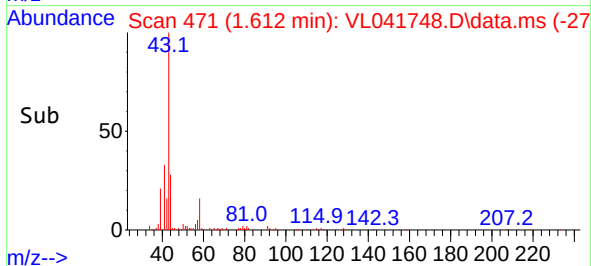
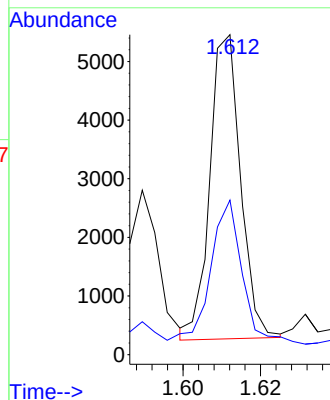
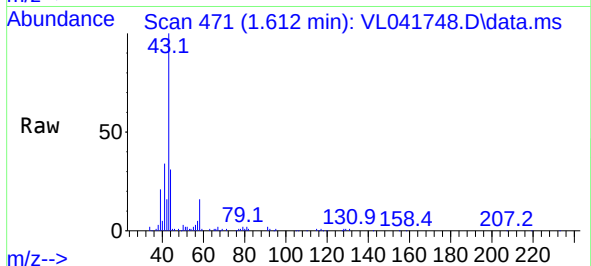




#9
Propene
Concen: 0.207 ppbv
RT: 1.612 min Scan# 41
Delta R.T. 0.126 min
Lab File: VL041748.D
Acq: 12 Dec 2024 13:10

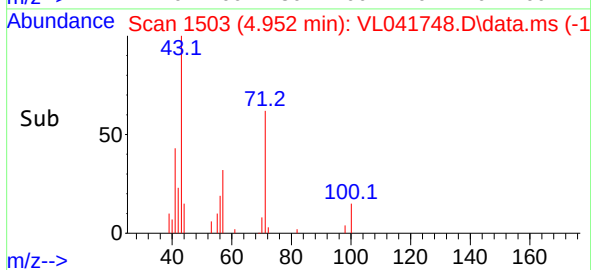
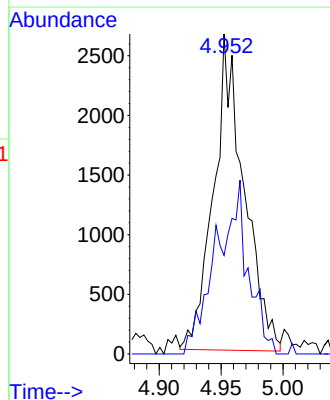
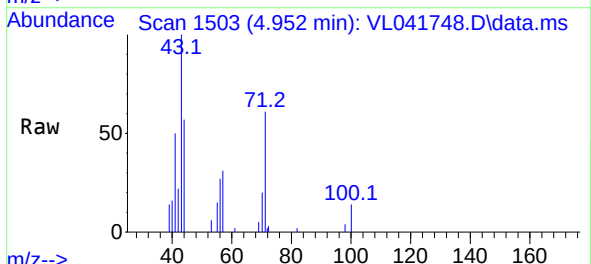
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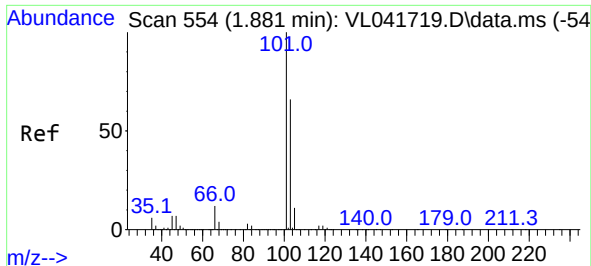
Tgt Ion: 41 Resp: 2858
Ion Ratio Lower Upper
41 100
42 74.6 56.2 84.4



#10
Heptane
Concen: 0.119 ppbv
RT: 4.952 min Scan# 1503
Delta R.T. -0.042 min
Lab File: VL041748.D
Acq: 12 Dec 2024 13:10

Tgt Ion: 43 Resp: 4551
Ion Ratio Lower Upper
43 100
57 57.9 50.5 75.7

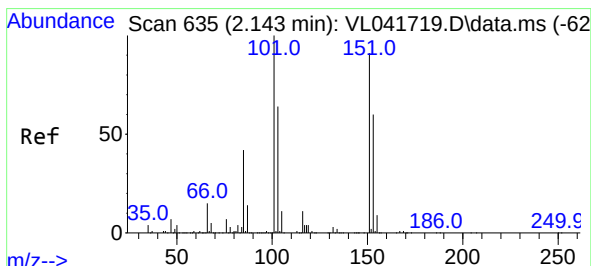
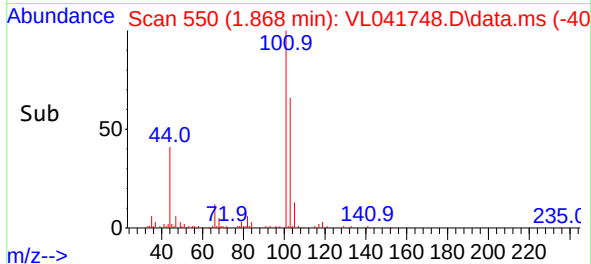
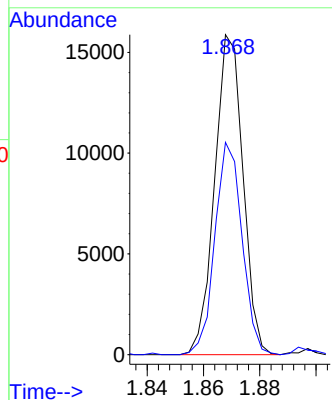
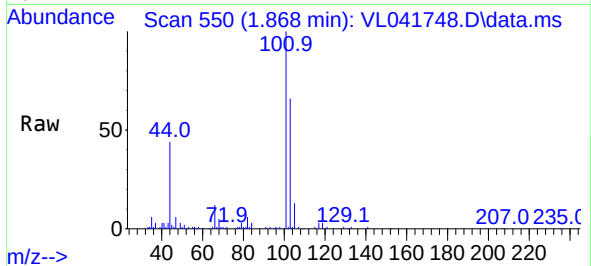




#11
 Trichlorofluoromethane
 Concen: 0.231 ppbv
 RT: 1.868 min Scan# 511
 Delta R.T. -0.013 min
 Lab File: VL041748.D
 Acq: 12 Dec 2024 13:10

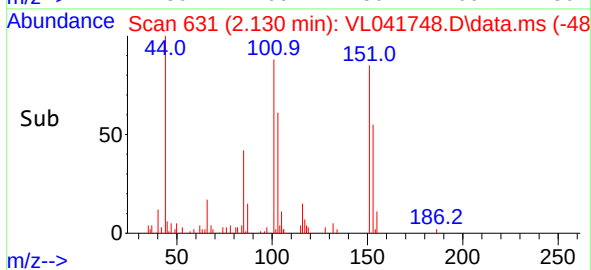
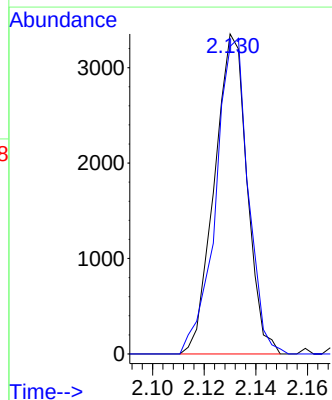
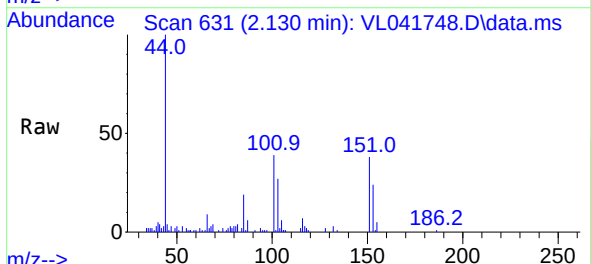
Instrument :
 MSVOA_L
 ClientSampleId :

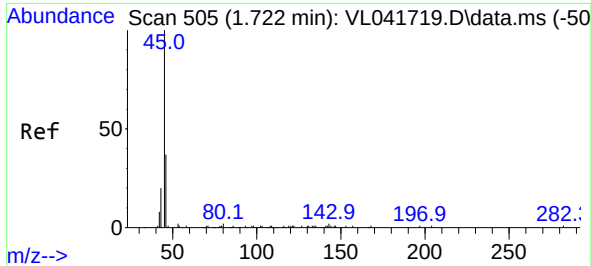
Tgt Ion:101 Resp: 11101
 Ion Ratio Lower Upper
 101 100
 103 66.4 52.7 79.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.068 ppbv
 RT: 2.130 min Scan# 631
 Delta R.T. -0.013 min
 Lab File: VL041748.D
 Acq: 12 Dec 2024 13:10

Tgt Ion:101 Resp: 2945
 Ion Ratio Lower Upper
 101 100
 151 97.9 74.4 111.6

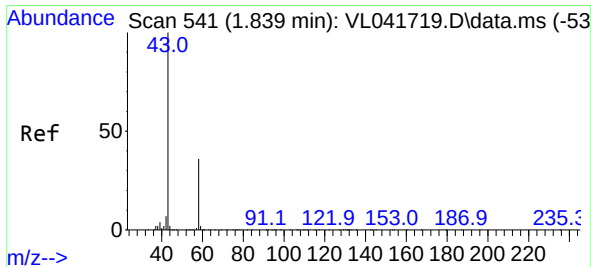
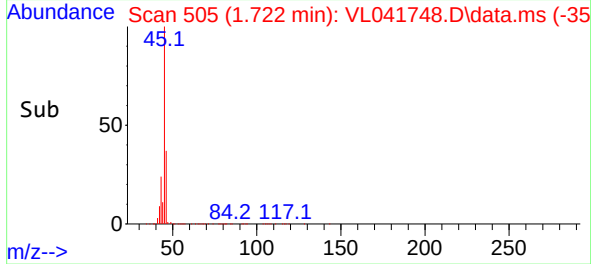
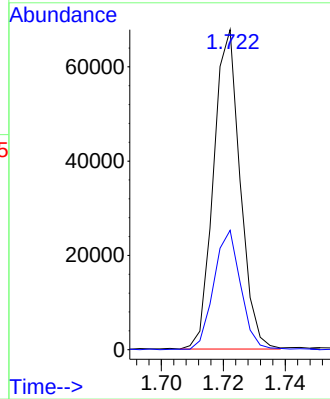
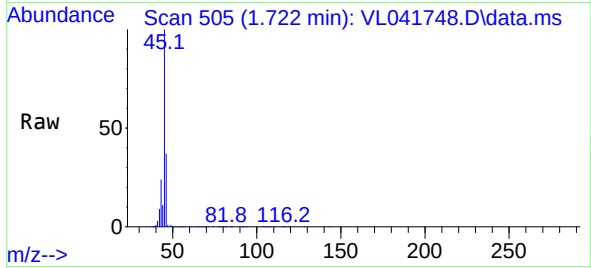




#13
Ethanol
Concen: 35.384 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL041748.D
Acq: 12 Dec 2024 13:10

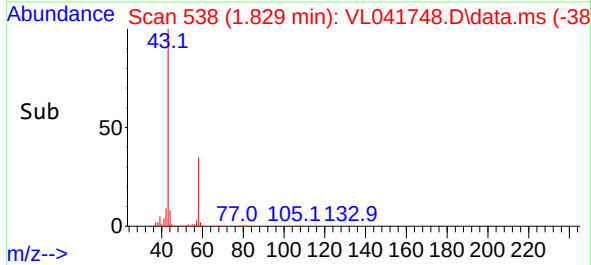
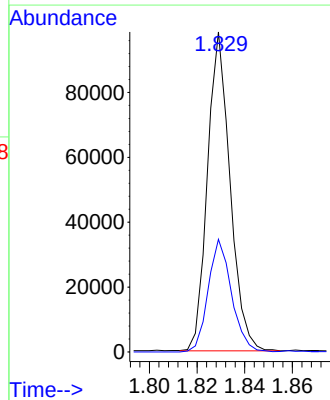
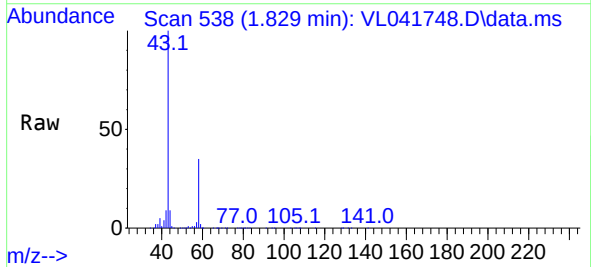
Instrument :
MSVOA_L
ClientSampleId :

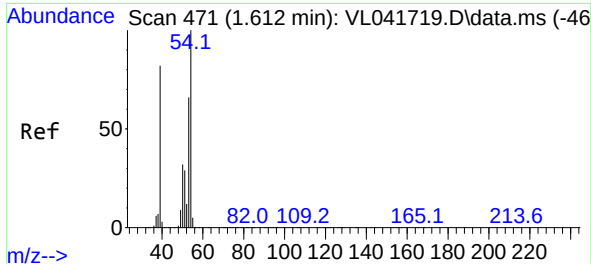
Tgt Ion: 45 Resp: 40338
Ion Ratio Lower Upper
45 100
46 38.9 16.6 66.6



#15
Acetone
Concen: 2.361 ppbv
RT: 1.829 min Scan# 538
Delta R.T. -0.010 min
Lab File: VL041748.D
Acq: 12 Dec 2024 13:10

Tgt Ion: 43 Resp: 64714
Ion Ratio Lower Upper
43 100
58 36.9 28.9 43.3

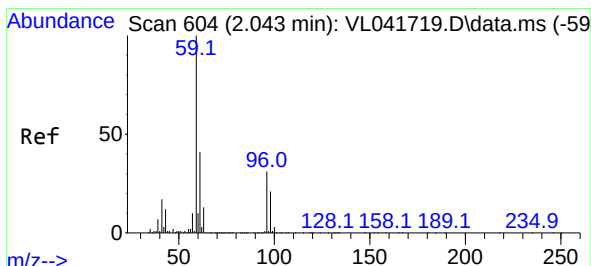
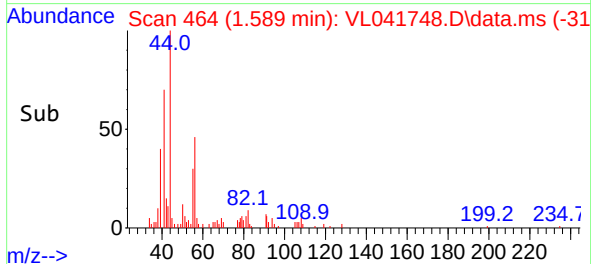
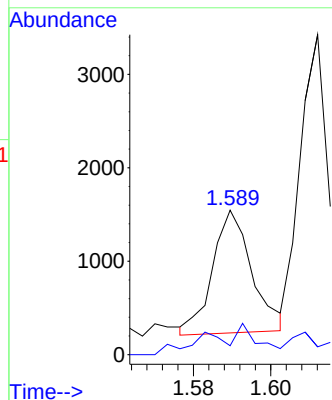
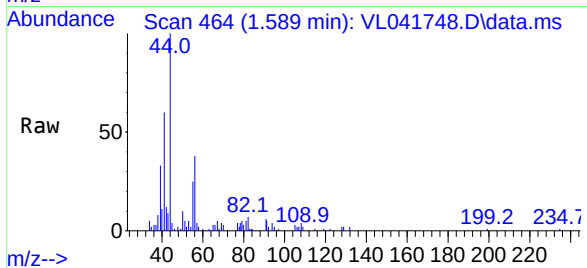




#16
1,3-Butadiene
Concen: 0.101 ppbv
RT: 1.589 min Scan# 4
Delta R.T. -0.023 min
Lab File: VL041748.D
Acq: 12 Dec 2024 13:10

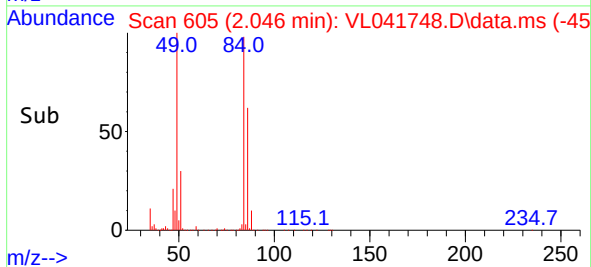
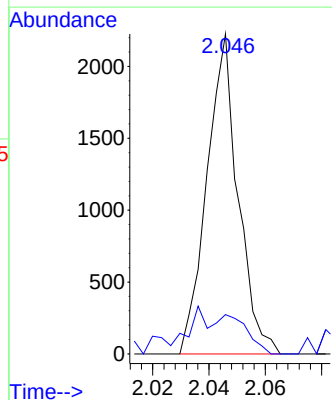
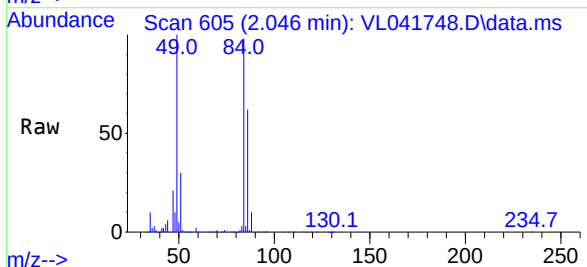
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MSVOA_L
ClientSampleId :

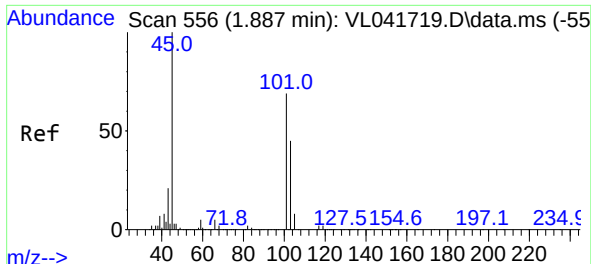
Tgt Ion: 39 Resp: 931
Ion Ratio Lower Upper
39 100
54 66.2 85.0 127.6#



#17
tert-Butyl alcohol
Concen: 0.043 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.003 min
Lab File: VL041748.D
Acq: 12 Dec 2024 13:10

Tgt Ion: 59 Resp: 1709
Ion Ratio Lower Upper
59 100
57 24.6 8.2 12.4#

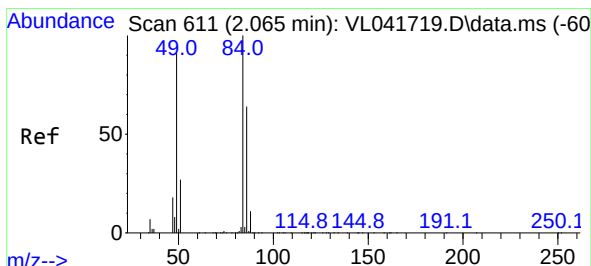
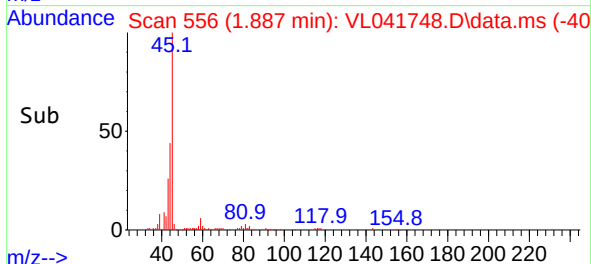
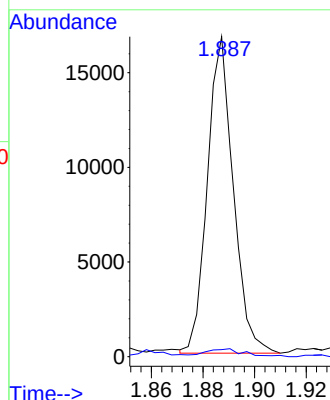
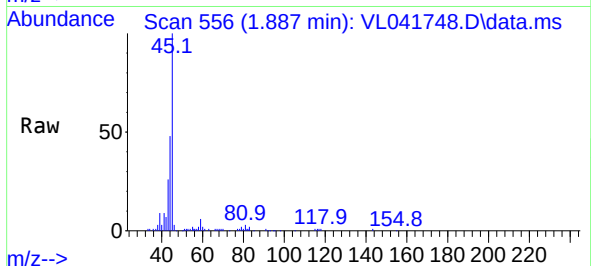




#19
Isopropyl Alcohol
Concen: 0.448 ppbv
RT: 1.887 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL041748.D
Acq: 12 Dec 2024 13:10

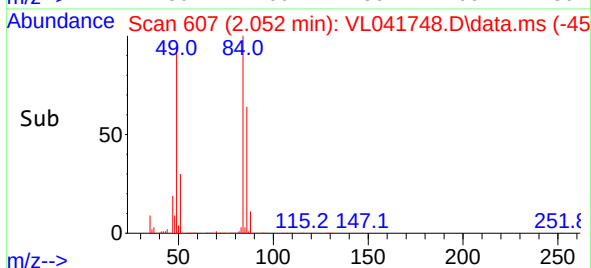
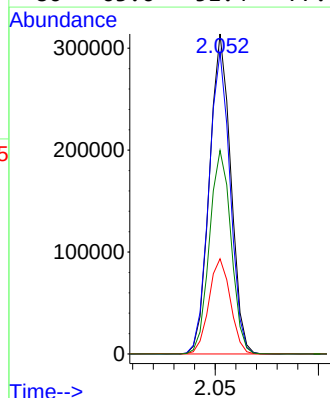
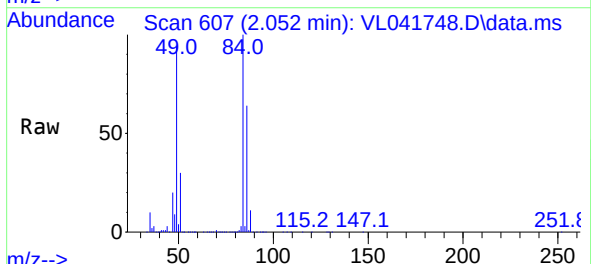
Instrument :
MSVOA_L
ClientSampleId :

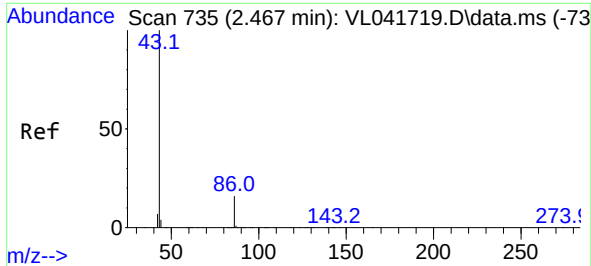
Tgt Ion: 45 Resp: 11675
Ion Ratio Lower Upper
45 100
58 204.5 40.6 61.0#



#20
Methylene Chloride
Concen: 13.512 ppbv
RT: 2.052 min Scan# 607
Delta R.T. -0.013 min
Lab File: VL041748.D
Acq: 12 Dec 2024 13:10

Tgt Ion: 84 Resp: 224356
Ion Ratio Lower Upper
84 100
49 94.4 73.6 110.4
51 29.7 22.7 34.1
86 63.6 51.4 77.0



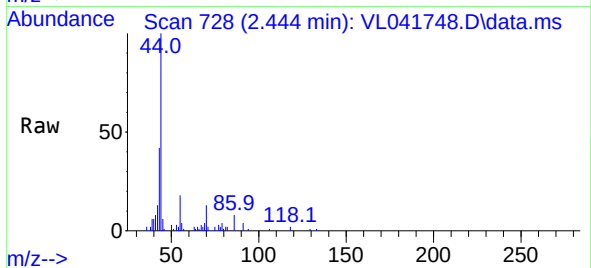


#23
Vinyl Acetate
Concen: 0.155 ppbv
RT: 2.444 min Scan# 71
Delta R.T. -0.023 min
Lab File: VL041748.D
Acq: 12 Dec 2024 13:10

Instrument :

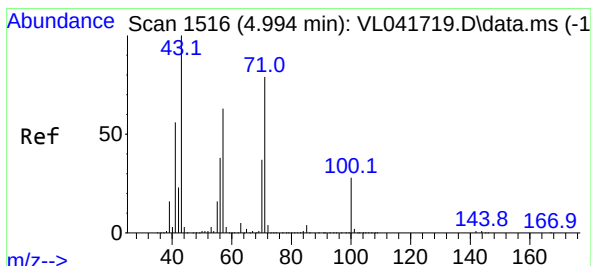
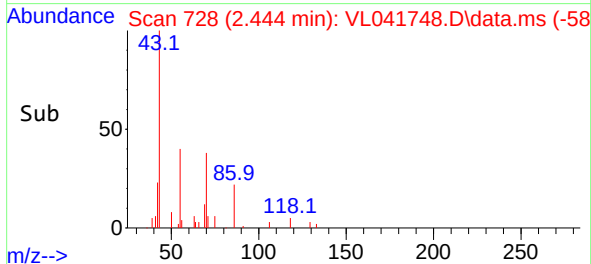
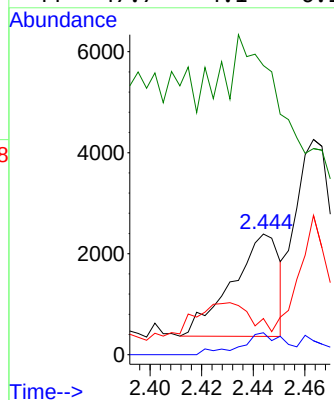
MSVOA_L

ClientSampleId :



Tgt Ion: 43 Resp: 2575

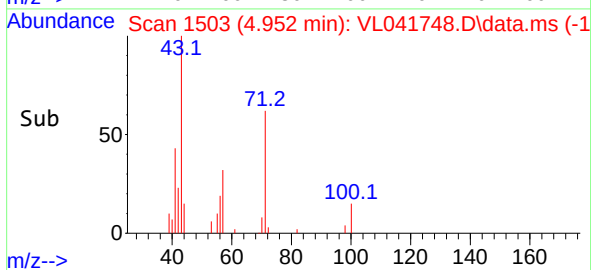
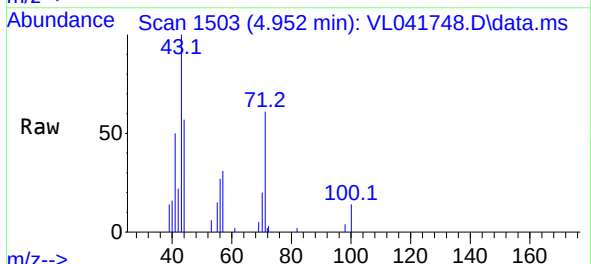
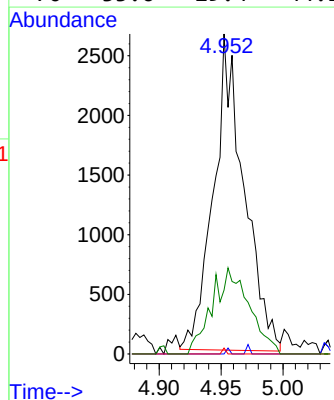
Ion	Ratio	Lower	Upper
43	100		
86	21.5	11.5	17.3#
42	15.0	6.6	10.0#
44	47.7	4.1	6.1#

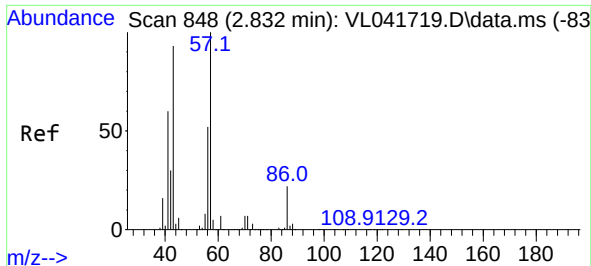


#25
Ethyl Acetate
Concen: 0.119 ppbv
RT: 4.952 min Scan# 1503
Delta R.T. -0.042 min
Lab File: VL041748.D
Acq: 12 Dec 2024 13:10

Tgt Ion: 43 Resp: 4551

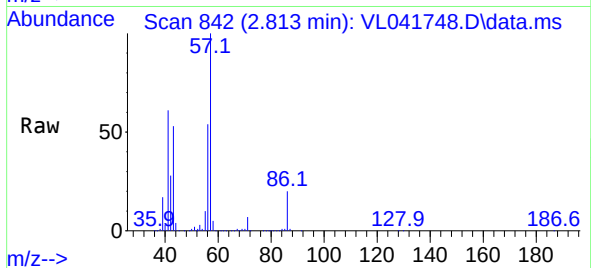
Ion	Ratio	Lower	Upper
43	100		
45	0.0	0.0	0.0
61	0.0	0.4	0.6#
70	33.6	29.4	44.2



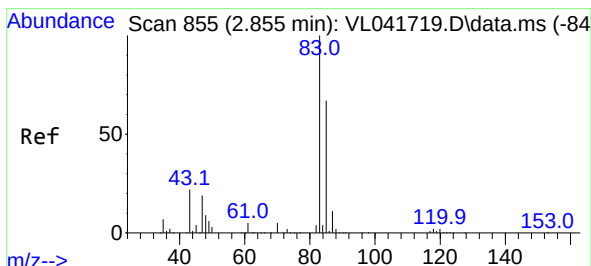
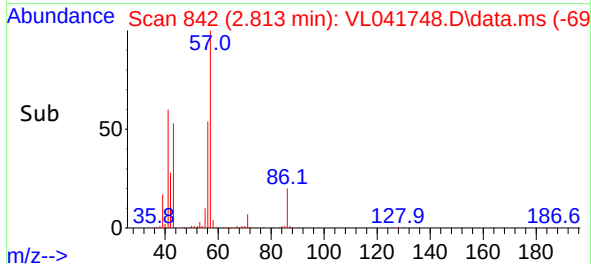
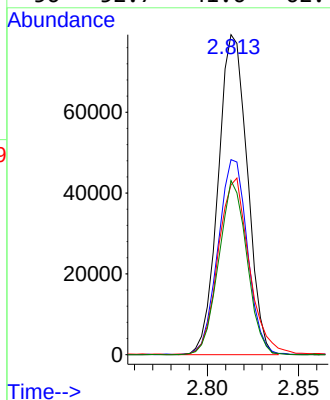


#26
Hexane
Concen: 2.384 ppbv
RT: 2.813 min Scan# 841
Delta R.T. -0.019 min
Lab File: VL041748.D
Acq: 12 Dec 2024 13:10

Instrument :
MSVOA_L
ClientSampleId :

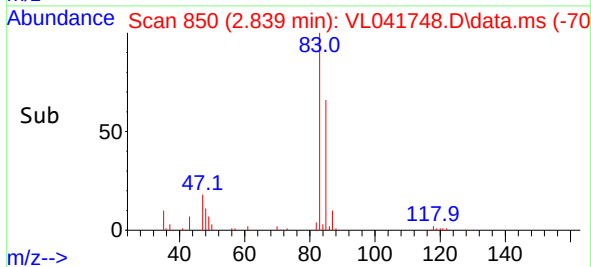
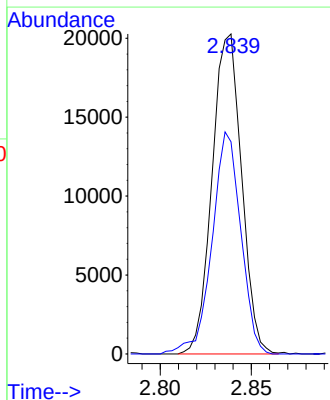
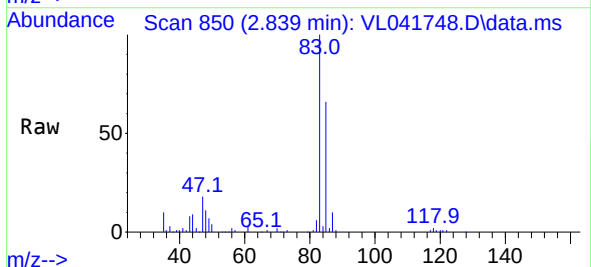


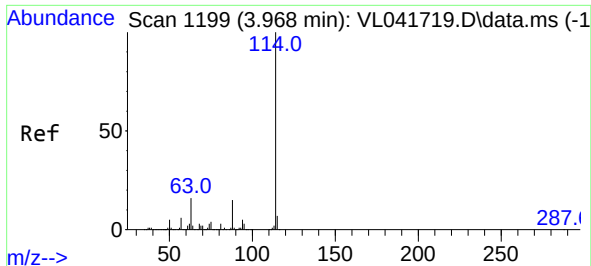
Tgt Ion: 57 Resp: 88104
Ion Ratio Lower Upper
57 100
41 62.0 49.5 74.3
43 58.9 150.6 225.8#
56 52.7 41.6 62.4



#29
Chloroform
Concen: 0.403 ppbv
RT: 2.839 min Scan# 850
Delta R.T. -0.016 min
Lab File: VL041748.D
Acq: 12 Dec 2024 13:10

Tgt Ion: 83 Resp: 22812
Ion Ratio Lower Upper
83 100
85 66.3 53.6 80.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.942 min Scan# 1191

Delta R.T. -0.026 min

Lab File: VL041748.D

Acq: 12 Dec 2024 13:10

Instrument :

MSVOA_L

ClientSampleId :

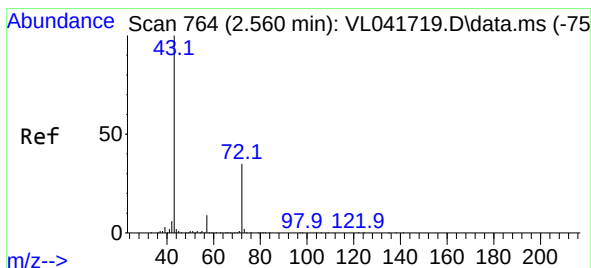
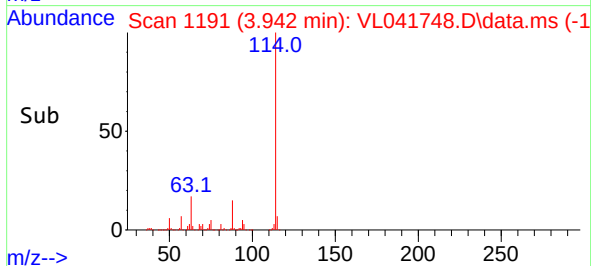
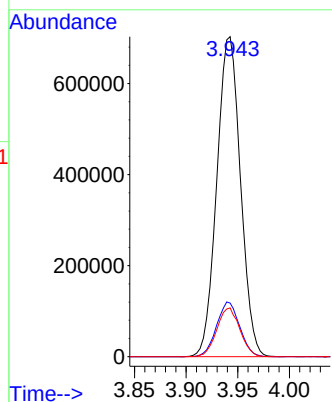
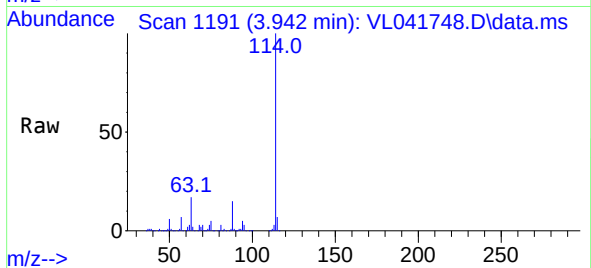
Tgt Ion:114 Resp: 1121250

Ion Ratio Lower Upper

114 100

63 16.7 12.9 19.3

88 14.9 11.8 17.6



#34

2-Butanone

Concen: 0.370 ppbv

RT: 2.551 min Scan# 761

Delta R.T. -0.010 min

Lab File: VL041748.D

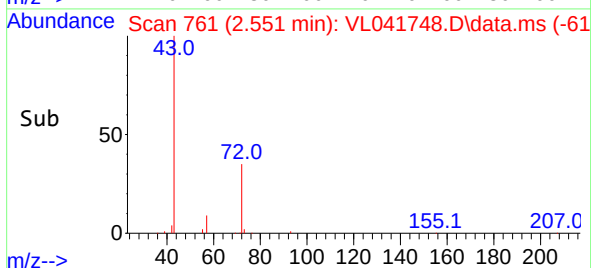
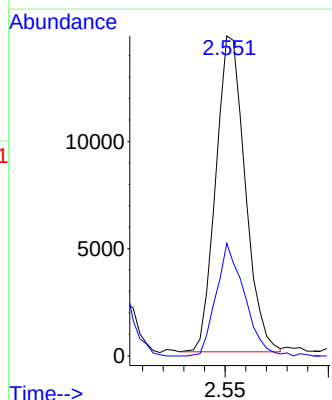
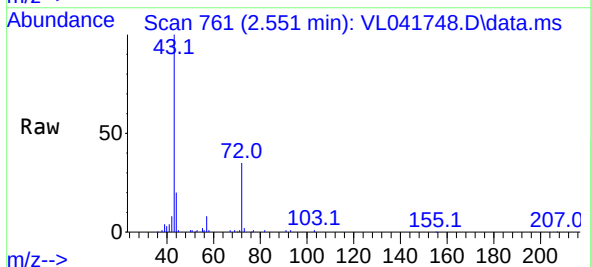
Acq: 12 Dec 2024 13:10

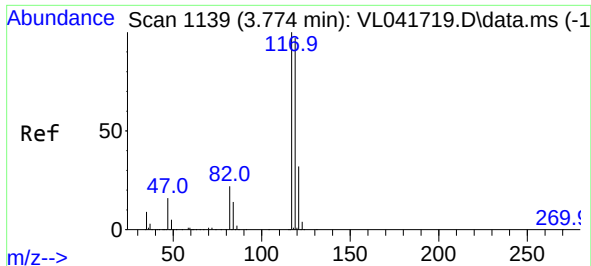
Tgt Ion: 43 Resp: 14521

Ion Ratio Lower Upper

43 100

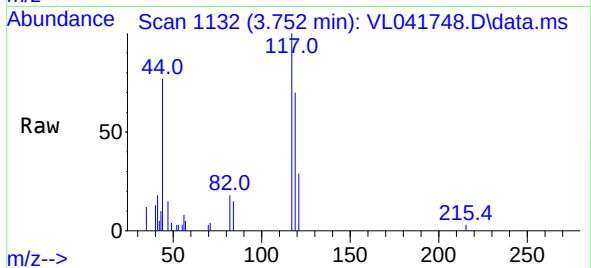
72 34.6 28.3 42.5



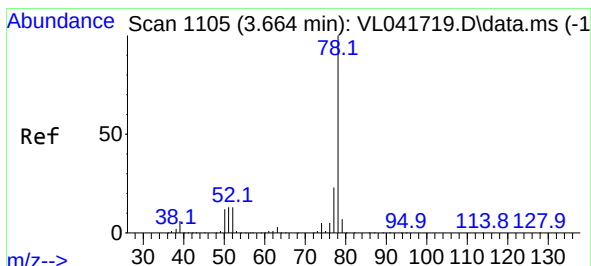
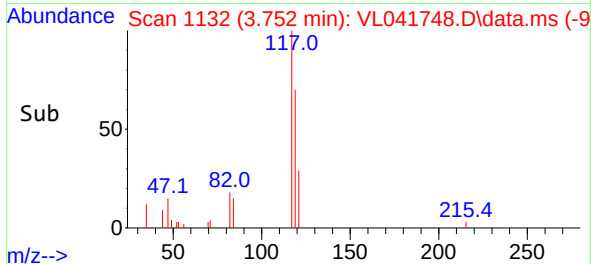
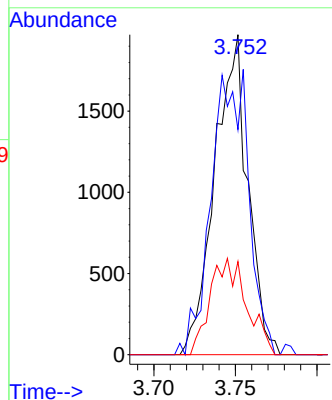


#35
Carbon Tetrachloride
Concen: 0.053 ppbv
RT: 3.752 min Scan# 11
Delta R.T. -0.023 min
Lab File: VL041748.D
Acq: 12 Dec 2024 13:10

Instrument :
MSVOA_L
ClientSampleId :

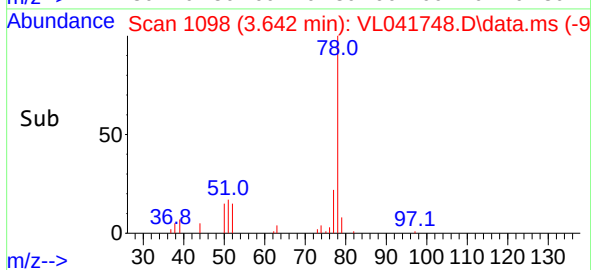
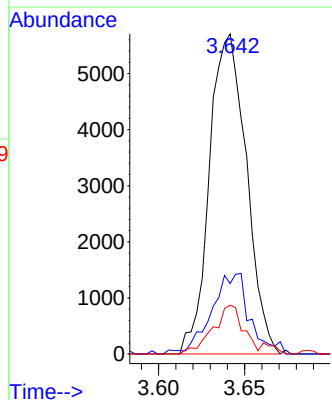
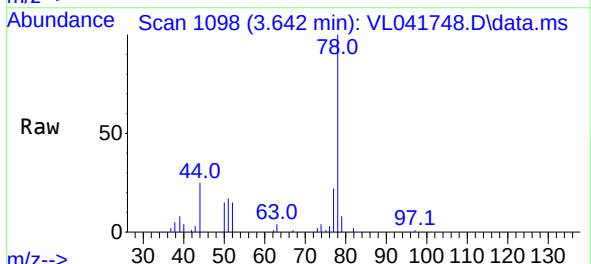


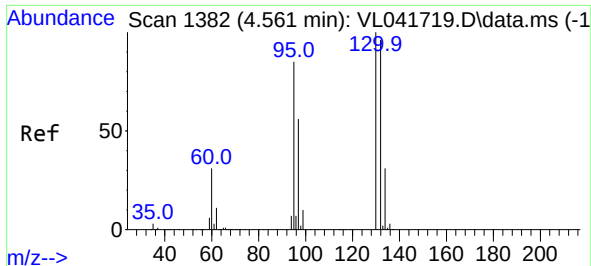
Tgt Ion:117 Resp: 2786
Ion Ratio Lower Upper
117 100
119 70.4 77.7 116.5#
121 29.1 25.5 38.3



#36
Benzene
Concen: 0.097 ppbv
RT: 3.642 min Scan# 1098
Delta R.T. -0.023 min
Lab File: VL041748.D
Acq: 12 Dec 2024 13:10

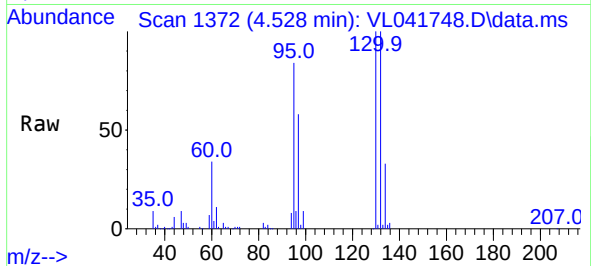
Tgt Ion: 78 Resp: 8522
Ion Ratio Lower Upper
78 100
77 21.0 18.6 27.8
50 15.2 9.5 14.3#





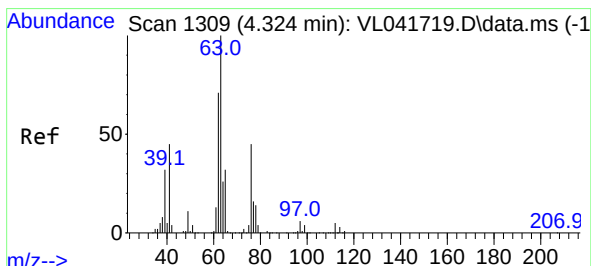
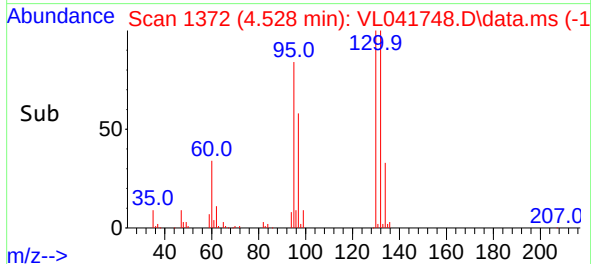
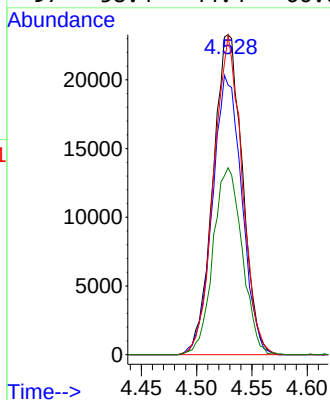
#38
Trichloroethene
Concen: 0.939 ppbv
RT: 4.528 min Scan# 1190
Delta R.T. -0.032 min
Lab File: VL041748.D
Acq: 12 Dec 2024 13:10

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion:130 Resp: 42924

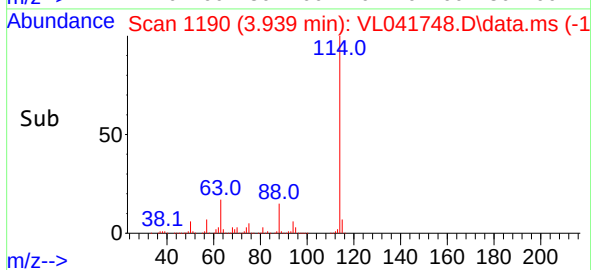
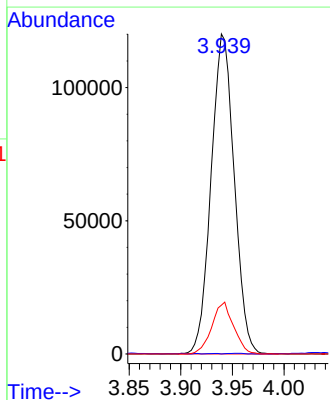
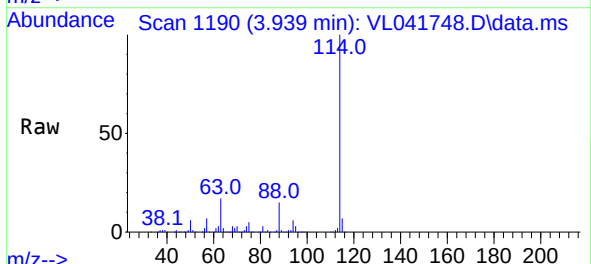
Ion	Ratio	Lower	Upper
130	100		
95	84.3	68.0	102.0
132	99.6	76.5	114.7
97	58.4	44.4	66.6

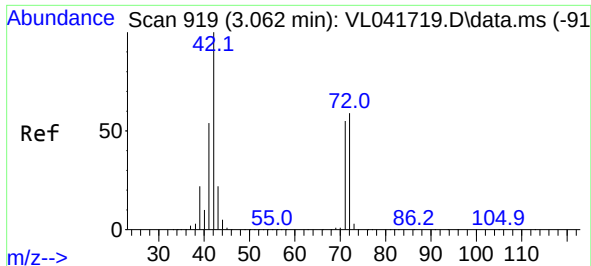


#39
1,2-Dichloropropane
Concen: 6.663 ppbv
RT: 3.939 min Scan# 1190
Delta R.T. -0.385 min
Lab File: VL041748.D
Acq: 12 Dec 2024 13:10

Tgt Ion: 63 Resp: 187156

Ion	Ratio	Lower	Upper
63	100		
41	0.0	36.4	54.6#
62	15.3	56.6	85.0#

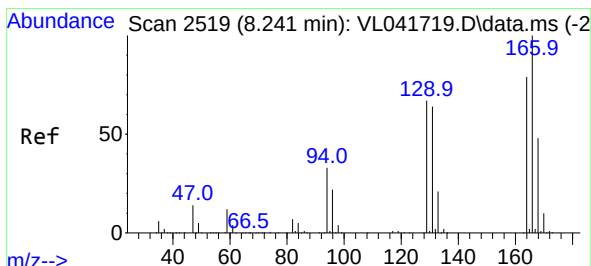
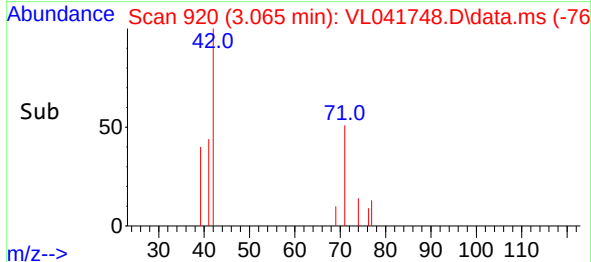
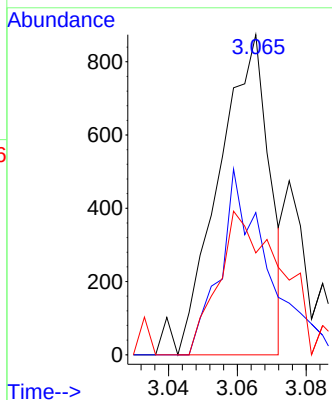
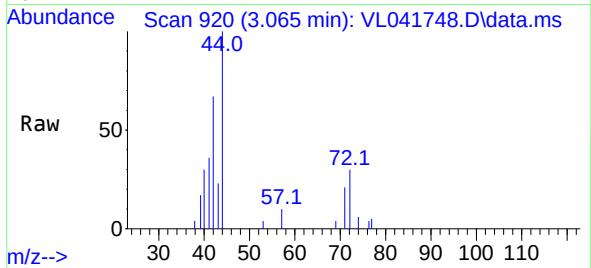




#41
Tetrahydrofuran
Concen: 0.037 ppbv
RT: 3.065 min Scan# 919
Delta R.T. 0.003 min
Lab File: VL041748.D
Acq: 12 Dec 2024 13:10

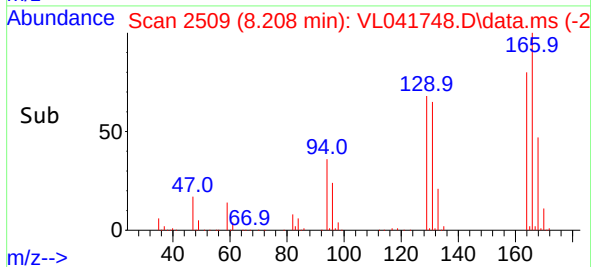
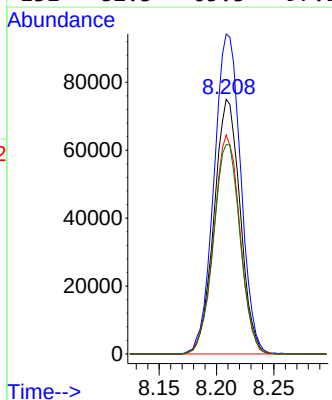
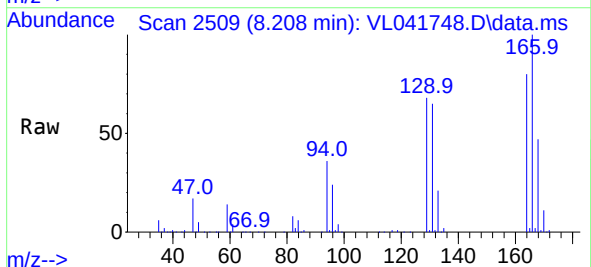
Instrument :
MSVOA_L
ClientSampleId :

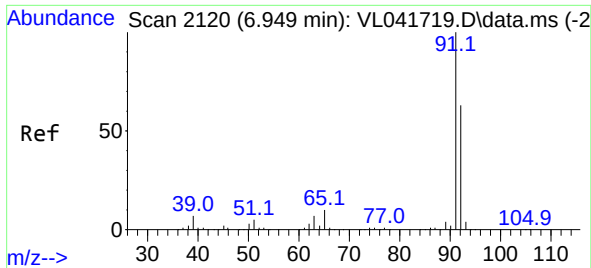
Tgt Ion: 42 Resp: 884
Ion Ratio Lower Upper
42 100
72 54.9 47.4 71.0
71 61.3 44.4 66.6



#52
Tetrachloroethene
Concen: 2.538 ppbv
RT: 8.208 min Scan# 2509
Delta R.T. -0.032 min
Lab File: VL041748.D
Acq: 12 Dec 2024 13:10

Tgt Ion: 164 Resp: 118547
Ion Ratio Lower Upper
164 100
166 125.6 101.4 152.0
129 86.0 67.6 101.4
131 82.3 65.3 97.9

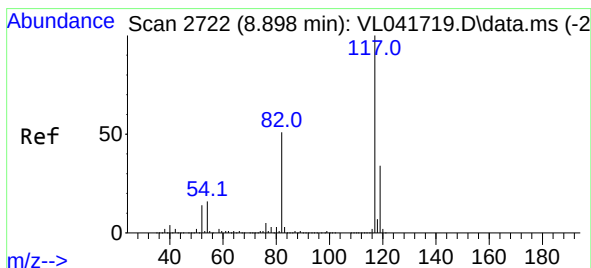
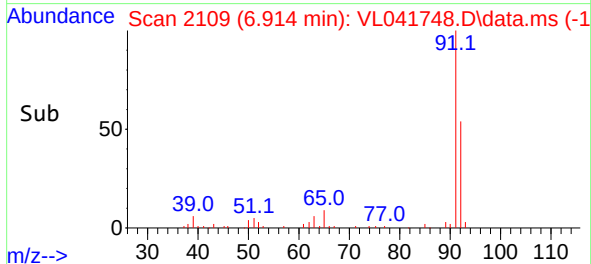
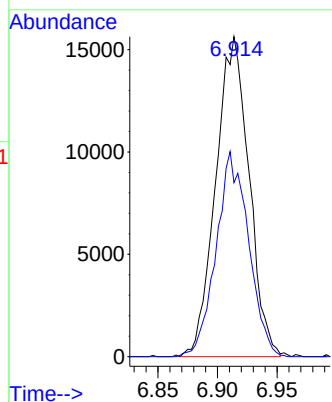
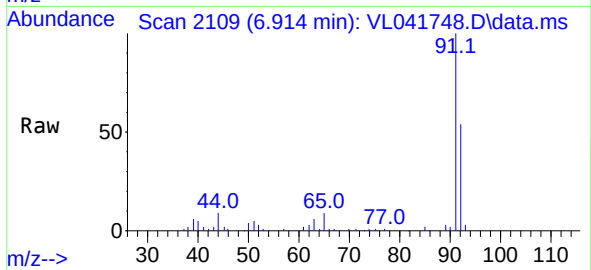




#53
Toluene
Concen: 0.280 ppbv
RT: 6.914 min Scan# 2120
Delta R.T. -0.036 min
Lab File: VL041748.D
Acq: 12 Dec 2024 13:10

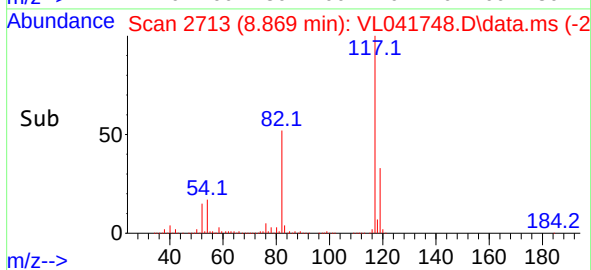
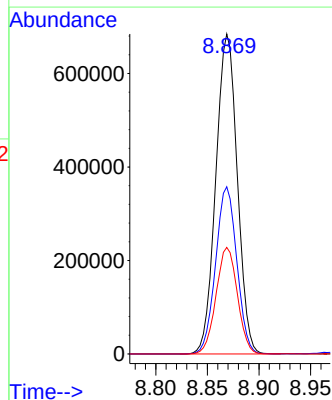
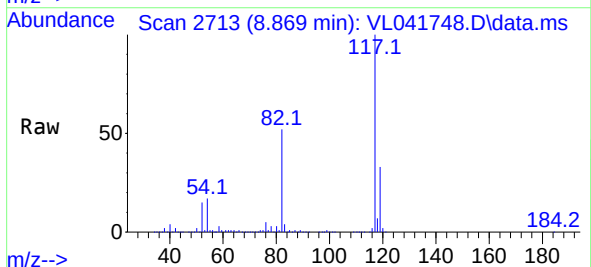
Instrument :
MSVOA_L
ClientSampleId :

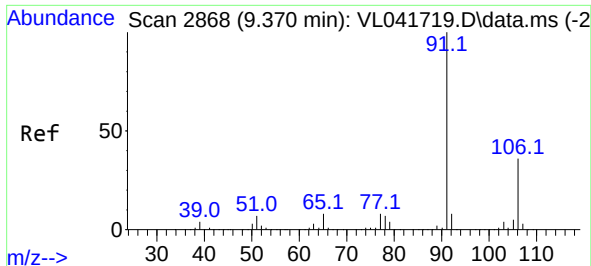
Tgt Ion: 91 Resp: 30351
Ion Ratio Lower Upper
91 100
92 62.3 49.7 74.5



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2713
Delta R.T. -0.029 min
Lab File: VL041748.D
Acq: 12 Dec 2024 13:10

Tgt Ion: 117 Resp: 991065
Ion Ratio Lower Upper
117 100
82 51.6 41.3 61.9
119 33.1 25.8 38.8





#58

Ethyl Benzene

Concen: 0.033 ppbv

RT: 9.341 min Scan# 21

Delta R.T. -0.029 min

Lab File: VL041748.D

Acq: 12 Dec 2024 13:10

Instrument :

MSVOA_L

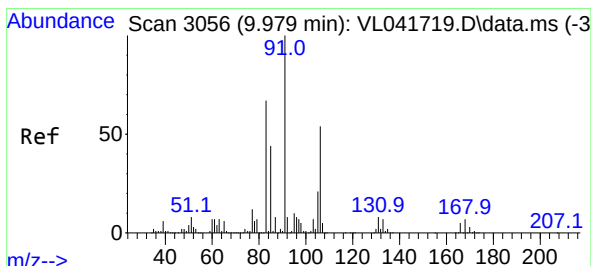
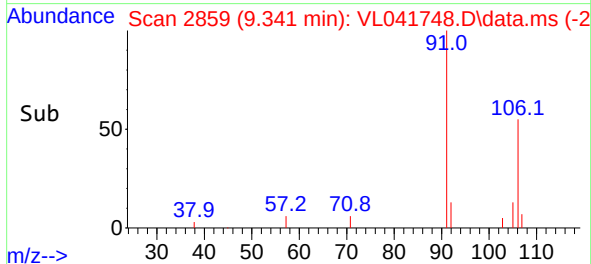
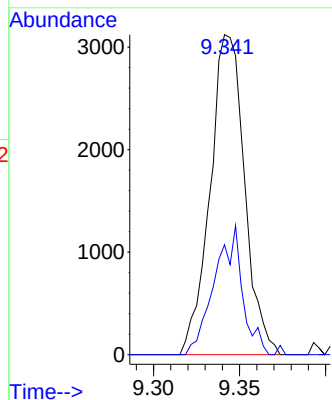
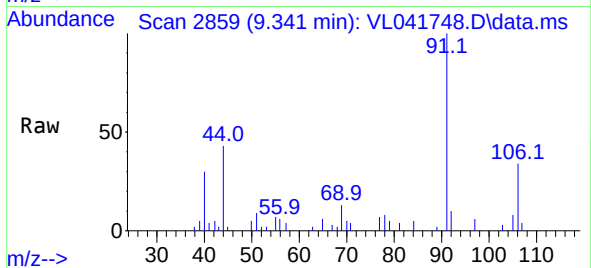
ClientSampleId :

Tgt Ion: 91 Resp: 4355

Ion Ratio Lower Upper

91 100

106 34.3 28.6 43.0



#60

o-Xylene

Concen: 0.071 ppbv

RT: 9.522 min Scan# 2915

Delta R.T. -0.456 min

Lab File: VL041748.D

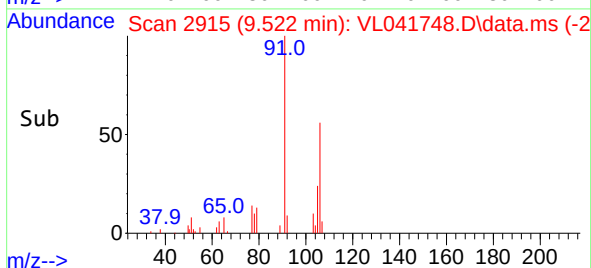
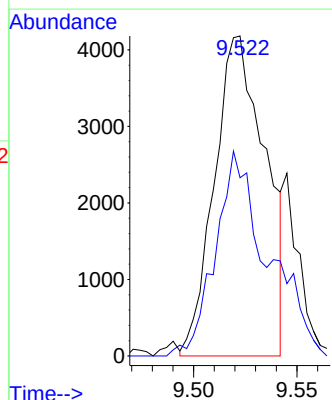
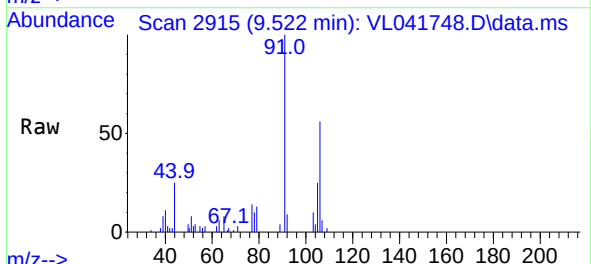
Acq: 12 Dec 2024 13:10

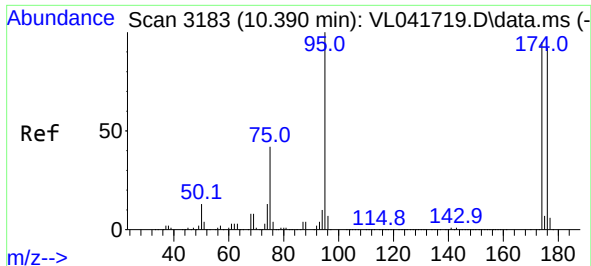
Tgt Ion: 91 Resp: 7178

Ion Ratio Lower Upper

91 100

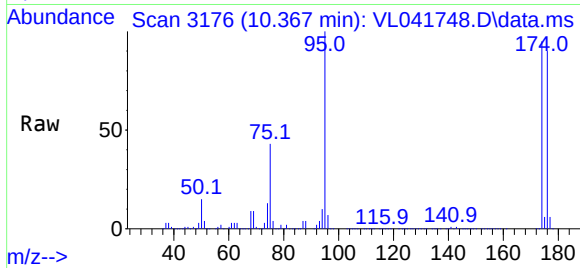
106 65.8 26.8 80.4



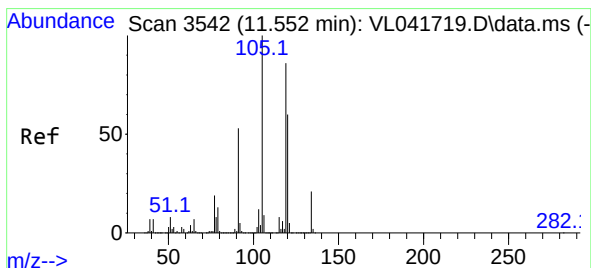
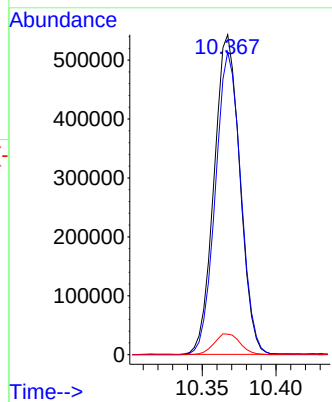
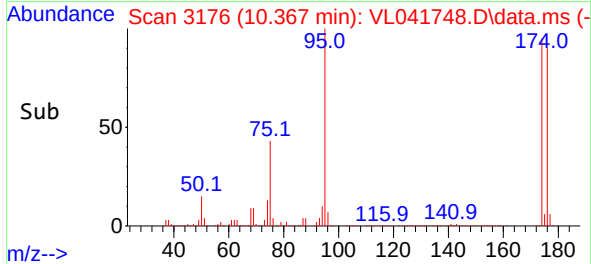


#68
1-Bromo-4-Fluorobenzene
Concen: 10.130 ppbv
RT: 10.367 min Scan# 3183
Delta R.T. -0.023 min
Lab File: VL041748.D
Acq: 12 Dec 2024 13:10

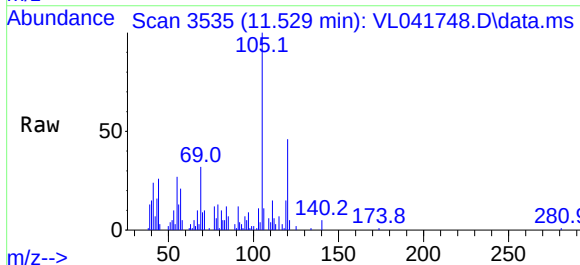
Instrument :
MSVOA_L
ClientSampleId :



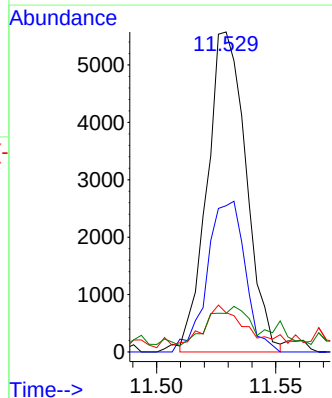
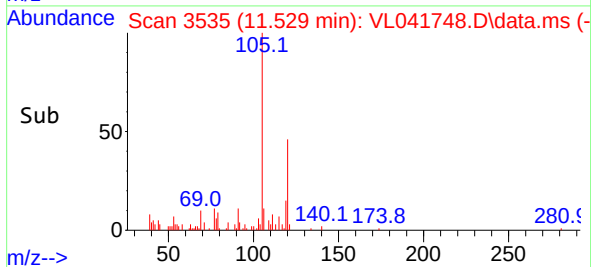
Tgt Ion: 95 Resp: 660020
Ion Ratio Lower Upper
95 100
174 93.3 76.7 115.1
175 6.6 5.4 8.2

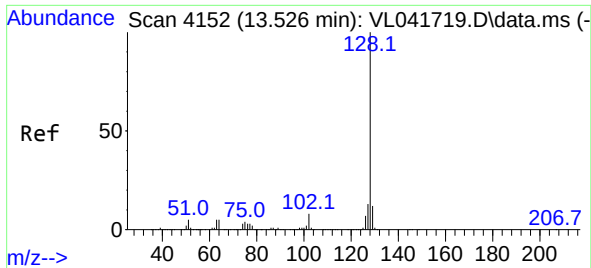


#74
1,2,4-Trimethylbenzene
Concen: 0.055 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.023 min
Lab File: VL041748.D
Acq: 12 Dec 2024 13:10



Tgt Ion: 105 Resp: 6322
Ion Ratio Lower Upper
105 100
120 46.8 47.8 71.6#
91 13.3 42.5 63.7#
77 10.3 15.4 23.2#





#79

Naphthalene

Concen: 0.053 ppbv

RT: 13.510 min Scan# 41

Delta R.T. -0.016 min

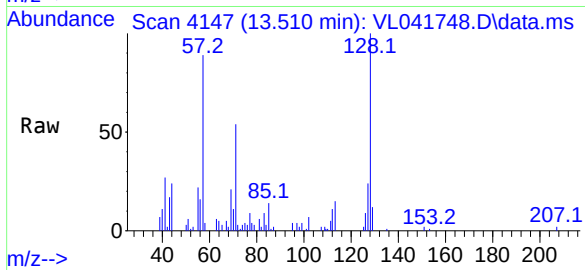
Lab File: VL041748.D

Acq: 12 Dec 2024 13:10

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:128 Resp: 5166

Ion Ratio Lower Upper

128 100

127 21.4 10.2 15.2#

129 11.6 9.4 14.0

