

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112024\
 Data File : VL041701.D
 Acq On : 20 Nov 2024 15:54
 Operator : SY/MD
 Sample : P4633-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

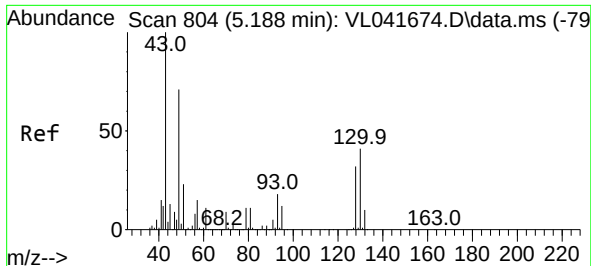
Instrument :
 MSVOA_L
 ClientSampleId :
 E070-1100

Quant Time: Nov 21 05:10:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Nov 08 01:01:00 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.211	49	995553	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.674	114	2742439	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.484	117	2469424	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.793	95	1923146	10.570	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	= 105.700%	
Target Compounds						Qvalue
4) Chloromethane	2.832	50	4394	0.064	ppbv	95
5) Vinyl Chloride	3.218	62	50654	0.820	ppbv #	1
7) Chloroethane	3.218	64	1298494	57.565	ppbv	99
10) Heptane	7.600	43	3348007	26.435	ppbv	99
13) Ethanol	3.269	45	2919	0.843	ppbv #	40
15) Acetone	3.494	43	71489	0.583	ppbv #	78
17) tert-Butyl alcohol	3.902	59	83437	0.776	ppbv #	75
18) 1,1-Dichloroethene	3.902	96	1117194	22.360	ppbv	98
20) Methylene Chloride	3.951	84	12239	0.271	ppbv	83
23) Vinyl Acetate	4.636	43	7852	0.145	ppbv #	89
26) Hexane	5.230	57	3868	0.040	ppbv #	45
29) Chloroform	5.295	83	16218	0.101	ppbv	88
30) Cyclohexane	6.510	84	779860	9.400	ppbv #	1
35) Carbon Tetrachloride	6.513	117	4228471	29.224	ppbv	99
39) 1,2-Dichloropropane	6.671	63	673604	8.389	ppbv #	24
42) Bromodichloromethane	7.269	83	3336894	20.947	ppbv	100
43) Methyl Methacrylate	7.581	69	18055	0.253	ppbv #	1
44) 2,2,4-Trimethylpentane	7.600	57	1697345	4.931	ppbv #	1
48) Dibromochloromethane	9.738	129	6424	0.049	ppbv #	10
51) 2-Hexanone	9.240	43	68893	0.451	ppbv #	31
53) Toluene	9.240	91	9520444	44.554	ppbv	95
58) Ethyl Benzene	12.397	91	11129849	41.112	ppbv #	56
59) m/p-Xylene	12.397	91	11129849	45.909	ppbv	90
60) o-Xylene	13.079	91	8888252	38.448	ppbv	97
61) Styrene	13.079	104	209302	2.194	ppbv #	1
77) 1,2-Dichlorobenzene	17.162	146	5621685	33.447	ppbv	100
81) 1,2,4-Trichlorobenzene	21.162	180	2922058	27.478	ppbv	98

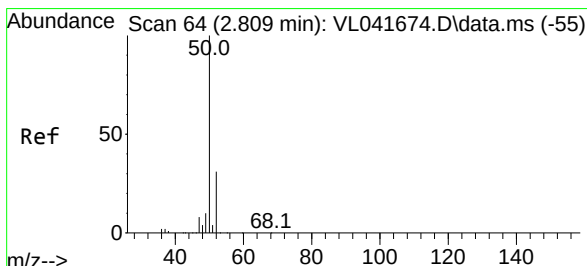
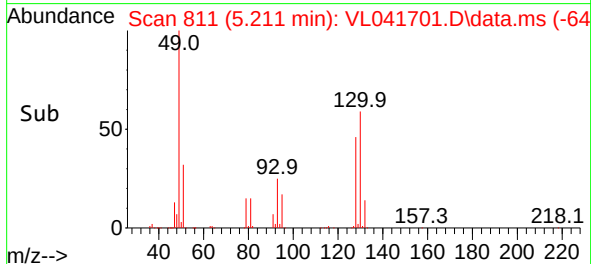
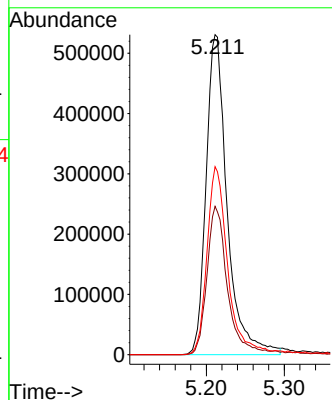
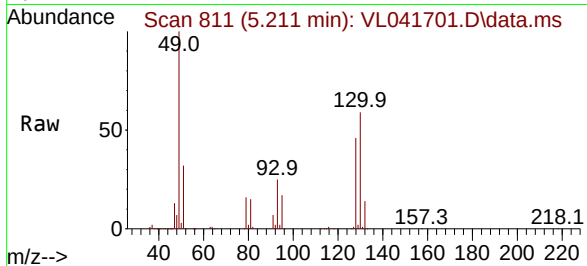
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.211 min Scan# 81
Delta R.T. 0.023 min
Lab File: VL041701.D
Acq: 20 Nov 2024 15:54

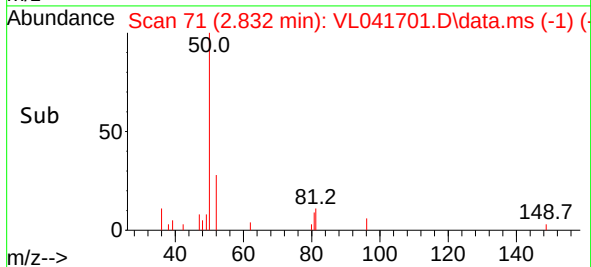
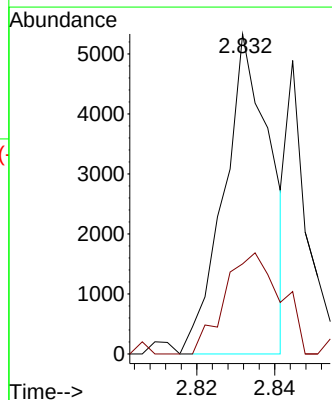
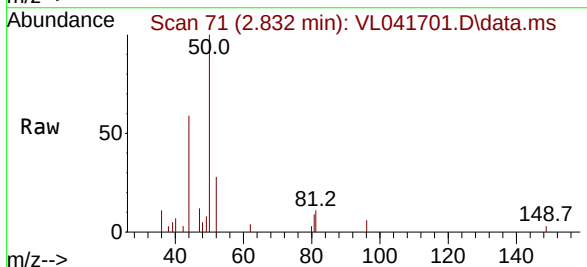
Instrument :
MSVOA_L
ClientSampleId :
E070-1100

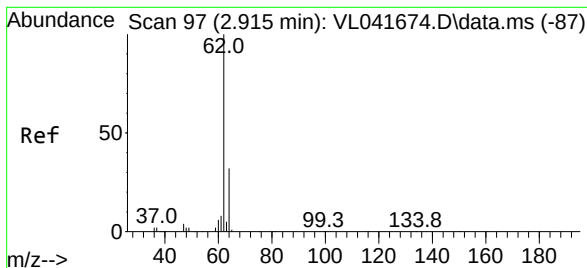
Tgt Ion: 49 Resp: 995553
Ion Ratio Lower Upper
49 100
128 46.5 23.8 71.2
130 60.1 30.1 90.5



#4
Chloromethane
Concen: 0.064 ppbv
RT: 2.832 min Scan# 71
Delta R.T. 0.023 min
Lab File: VL041701.D
Acq: 20 Nov 2024 15:54

Tgt Ion: 50 Resp: 4394
Ion Ratio Lower Upper
50 100
52 28.2 24.9 37.3

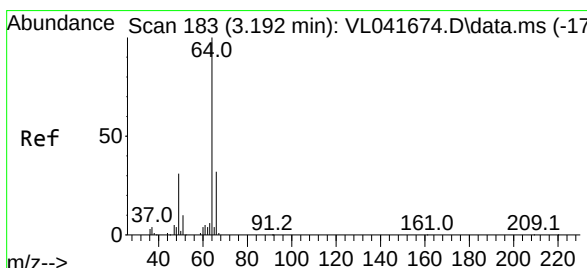
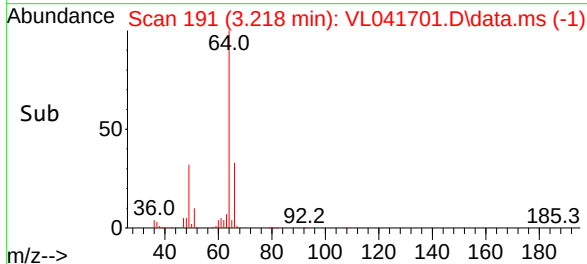
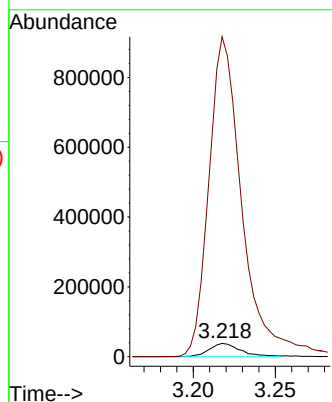
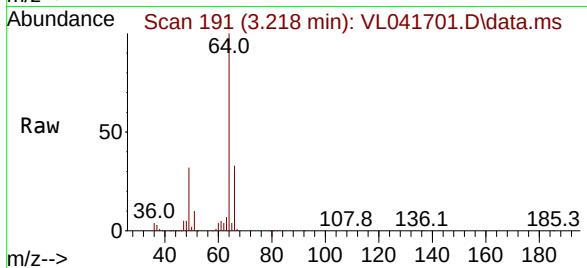




#5
Vinyl Chloride
Concen: 0.820 ppbv
RT: 3.218 min Scan# 191
Delta R.T. 0.302 min
Lab File: VL041701.D
Acq: 20 Nov 2024 15:54

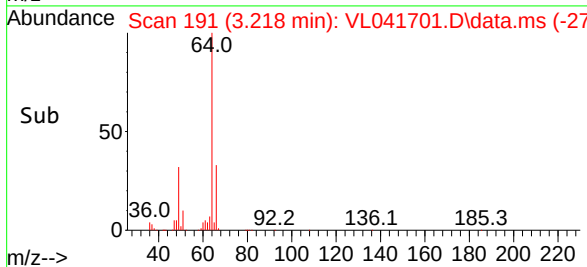
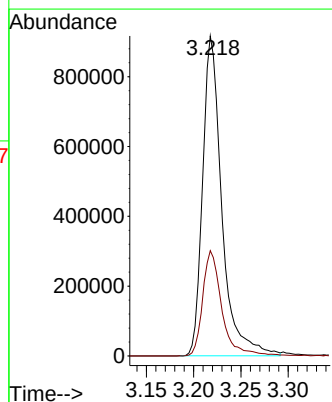
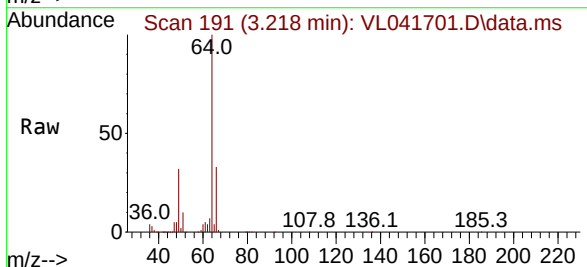
Instrument :
MSVOA_L
ClientSampleId :
E070-1100

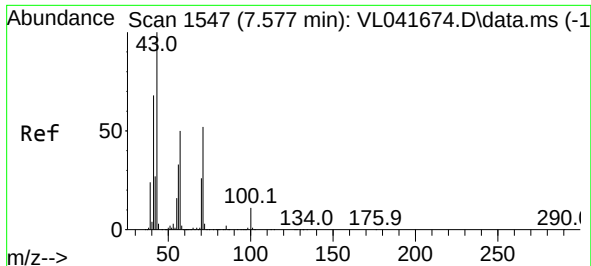
Tgt Ion: 62 Resp: 50654
Ion Ratio Lower Upper
62 100
64 2399.3 25.4 38.2#



#7
Chloroethane
Concen: 57.565 ppbv
RT: 3.218 min Scan# 191
Delta R.T. 0.026 min
Lab File: VL041701.D
Acq: 20 Nov 2024 15:54

Tgt Ion: 64 Resp: 1298494
Ion Ratio Lower Upper
64 100
66 32.9 25.9 38.9

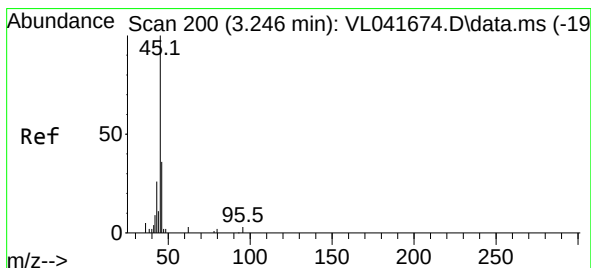
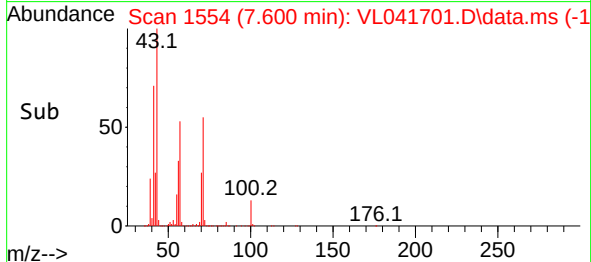
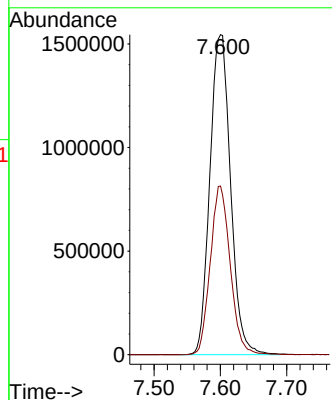
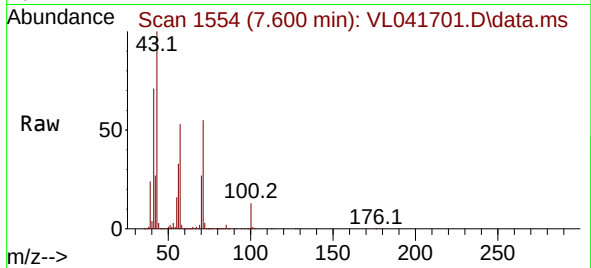




#10
Heptane
Concen: 26.435 ppbv
RT: 7.600 min Scan# 11
Delta R.T. 0.023 min
Lab File: VL041701.D
Acq: 20 Nov 2024 15:54

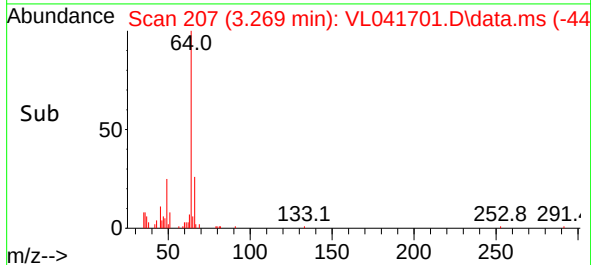
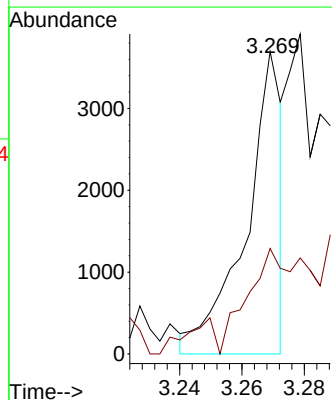
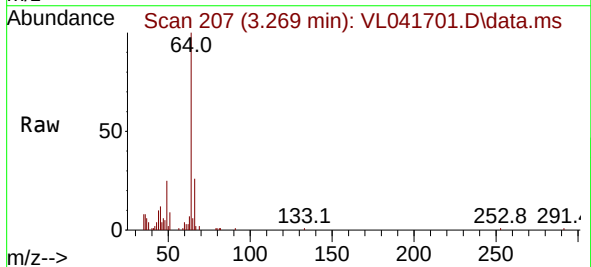
Instrument :
MSVOA_L
ClientSampleId :
E070-1100

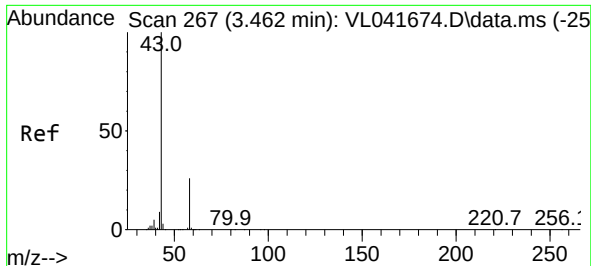
Tgt Ion: 43 Resp: 3348007
Ion Ratio Lower Upper
43 100
57 50.8 40.0 60.0



#13
Ethanol
Concen: 0.843 ppbv
RT: 3.269 min Scan# 207
Delta R.T. 0.023 min
Lab File: VL041701.D
Acq: 20 Nov 2024 15:54

Tgt Ion: 45 Resp: 2919
Ion Ratio Lower Upper
45 100
46 0.0 13.8 55.2#

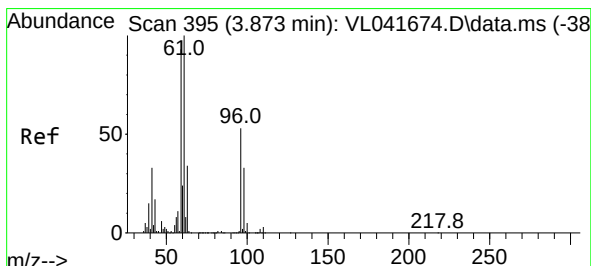
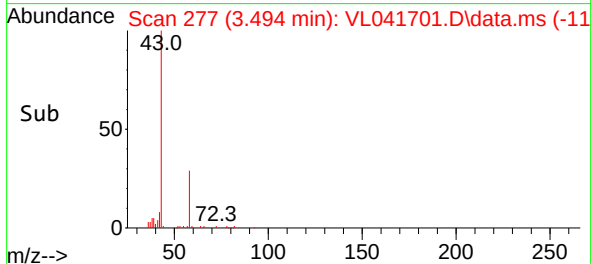
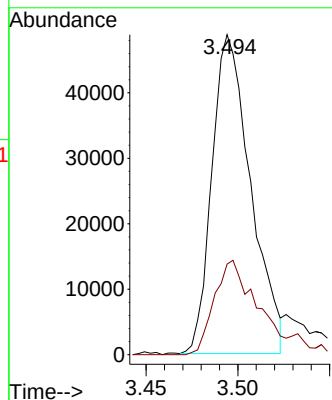
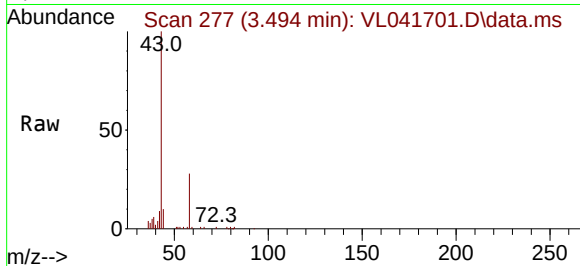




#15
Acetone
Concen: 0.583 ppbv
RT: 3.494 min Scan# 21
Delta R.T. 0.032 min
Lab File: VL041701.D
Acq: 20 Nov 2024 15:54

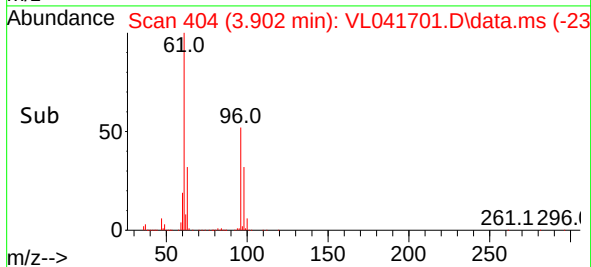
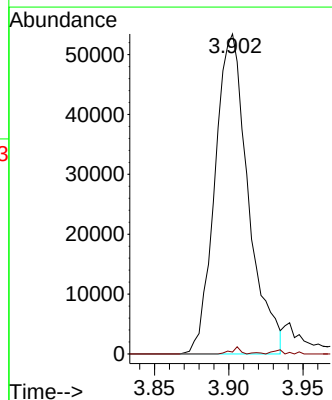
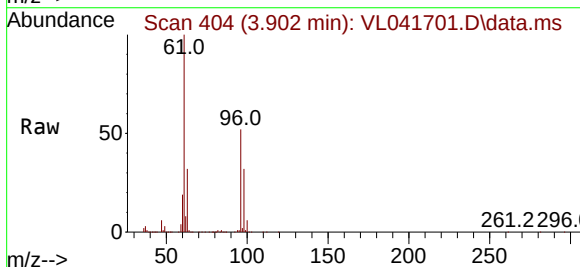
Instrument :
MSVOA_L
ClientSampleId :
E070-1100

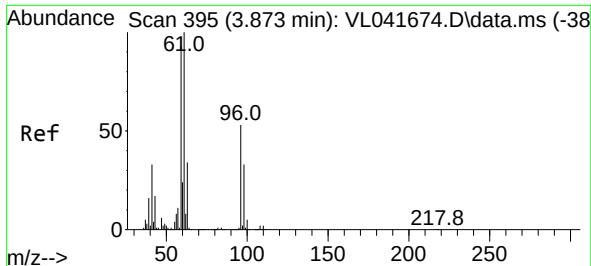
Tgt Ion: 43 Resp: 71489
Ion Ratio Lower Upper
43 100
58 38.0 21.4 32.0#



#17
tert-Butyl alcohol
Concen: 0.776 ppbv
RT: 3.902 min Scan# 404
Delta R.T. 0.029 min
Lab File: VL041701.D
Acq: 20 Nov 2024 15:54

Tgt Ion: 59 Resp: 83437
Ion Ratio Lower Upper
59 100
57 1.2 8.5 12.7#

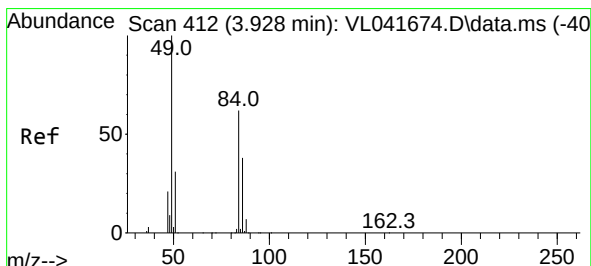
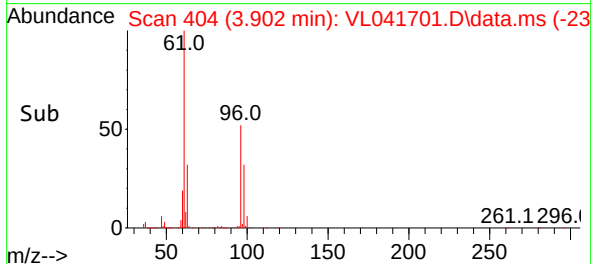
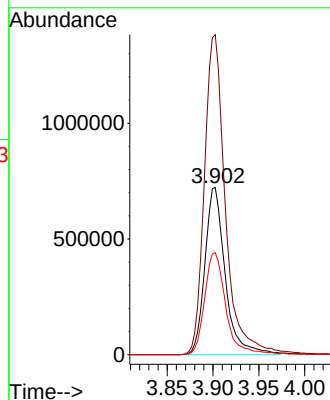
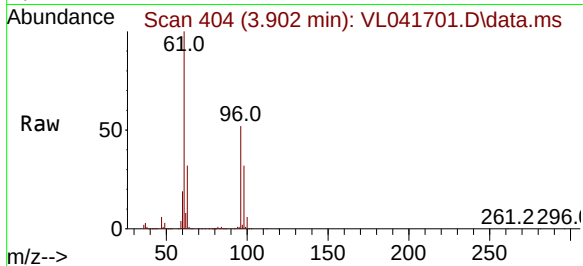




#18
1,1-Dichloroethene
Concen: 22.360 ppbv
RT: 3.902 min Scan# 410
Delta R.T. 0.029 min
Lab File: VL041701.D
Acq: 20 Nov 2024 15:54

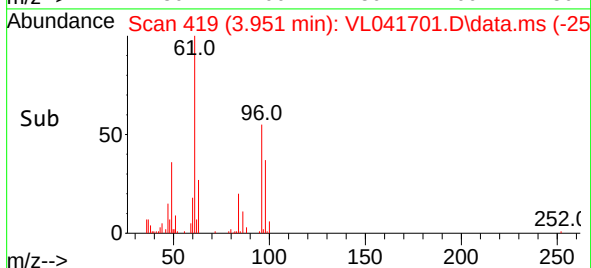
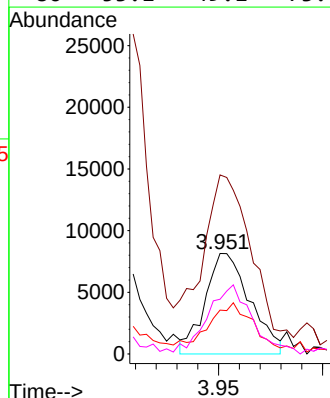
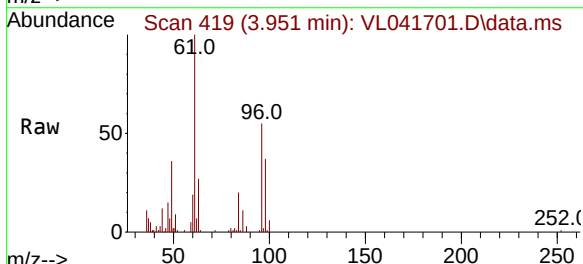
Instrument :
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ClientSampleId :
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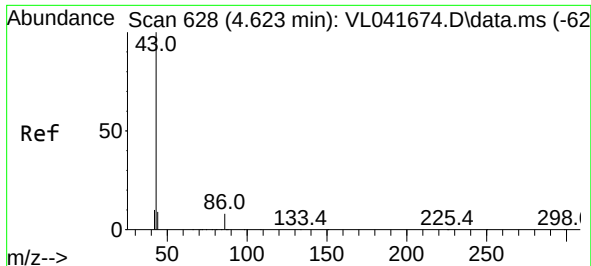
Tgt Ion: 96 Resp: 1117194
Ion Ratio Lower Upper
96 100
61 191.4 150.7 226.1
98 61.0 49.4 74.2



#20
Methylene Chloride
Concen: 0.271 ppbv
RT: 3.951 min Scan# 419
Delta R.T. 0.023 min
Lab File: VL041701.D
Acq: 20 Nov 2024 15:54

Tgt Ion: 84 Resp: 12239
Ion Ratio Lower Upper
84 100
49 191.9 129.7 194.5
51 43.6 39.8 59.6
86 53.1 49.1 73.7

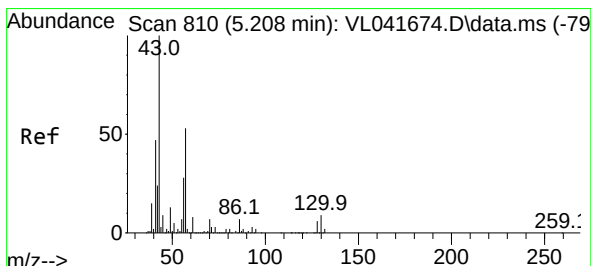
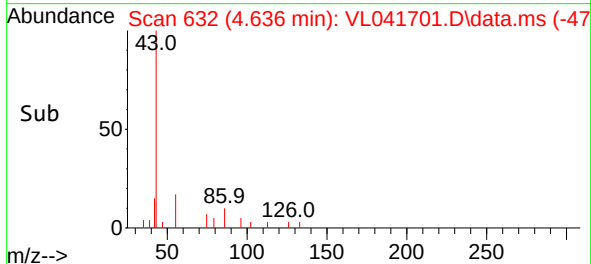
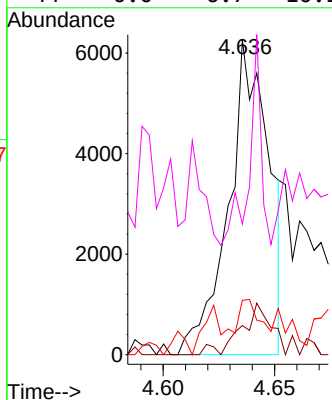
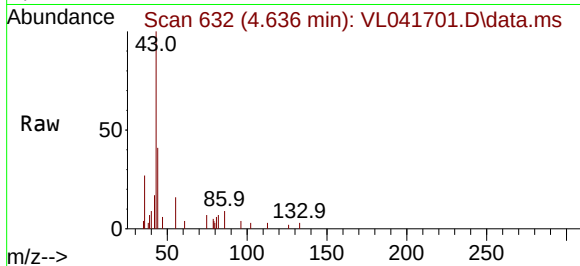




#23
 Vinyl Acetate
 Concen: 0.145 ppbv
 RT: 4.636 min Scan# 61
 Delta R.T. 0.013 min
 Lab File: VL041701.D
 Acq: 20 Nov 2024 15:54

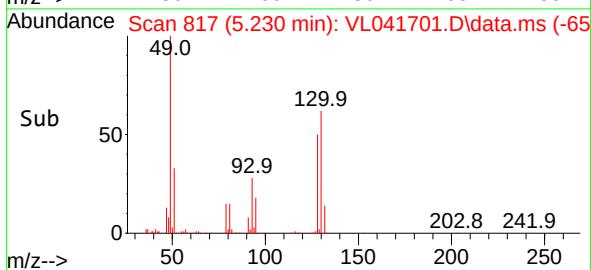
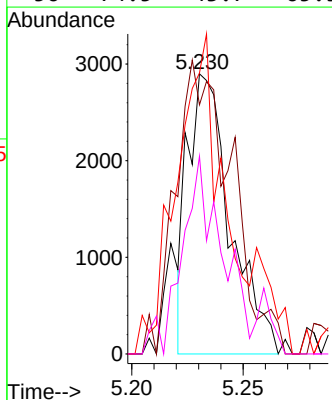
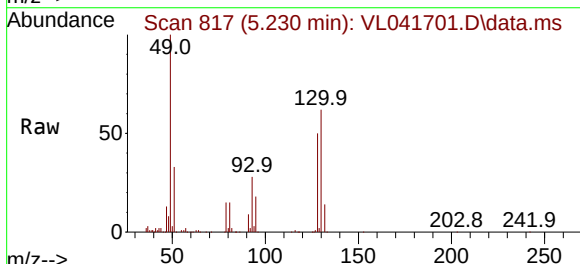
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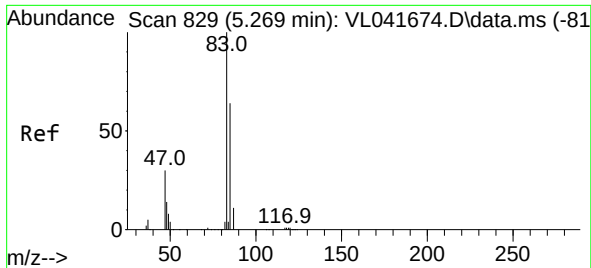
Tgt Ion:	43	Resp:	7852
Ion	Ratio	Lower	Upper
43	100		
86	9.2	5.3	7.9#
42	9.8	8.5	12.7
44	0.0	6.7	10.1#



#26
 Hexane
 Concen: 0.040 ppbv
 RT: 5.230 min Scan# 817
 Delta R.T. 0.023 min
 Lab File: VL041701.D
 Acq: 20 Nov 2024 15:54

Tgt Ion:	57	Resp:	3868
Ion	Ratio	Lower	Upper
57	100		
41	137.6	76.1	114.1#
43	142.9	207.0	310.6#
56	74.5	43.7	65.5#





#29

Chloroform

Concen: 0.101 ppbv

RT: 5.295 min Scan# 81

Delta R.T. 0.026 min

Lab File: VL041701.D

Acq: 20 Nov 2024 15:54

Instrument :

MSVOA_L

ClientSampleId :

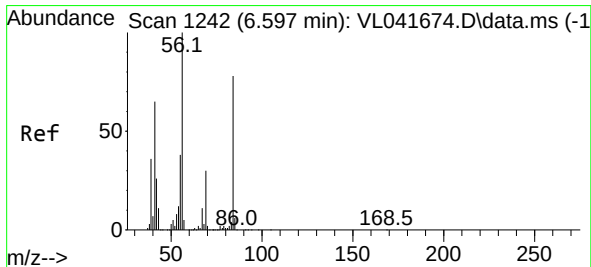
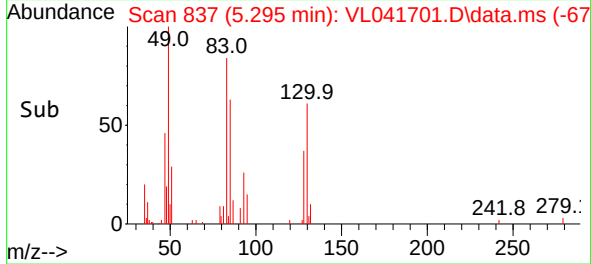
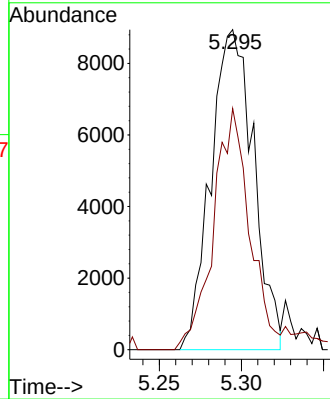
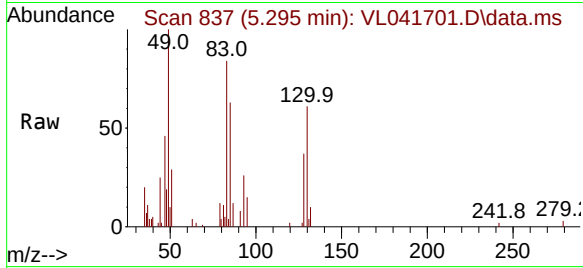
E070-1100

Tgt Ion: 83 Resp: 16218

Ion Ratio Lower Upper

83 100

85 73.0 51.1 76.7



#30

Cyclohexane

Concen: 9.400 ppbv

RT: 6.510 min Scan# 1215

Delta R.T. -0.087 min

Lab File: VL041701.D

Acq: 20 Nov 2024 15:54

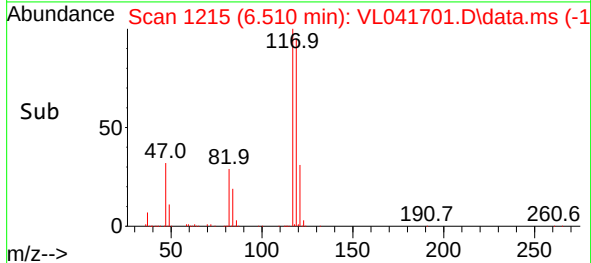
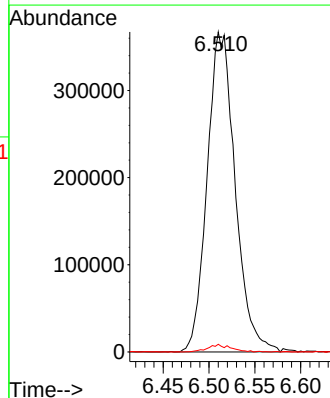
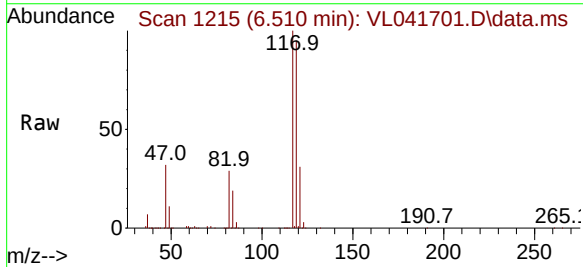
Tgt Ion: 84 Resp: 779860

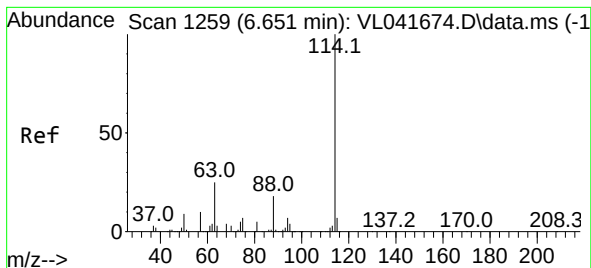
Ion Ratio Lower Upper

84 100

56 0.0 110.8 166.2#

41 2.0 70.0 105.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.674 min Scan# 1

Delta R.T. 0.023 min

Lab File: VL041701.D

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Instrument :

MSVOA_L

ClientSampleId :

E070-1100

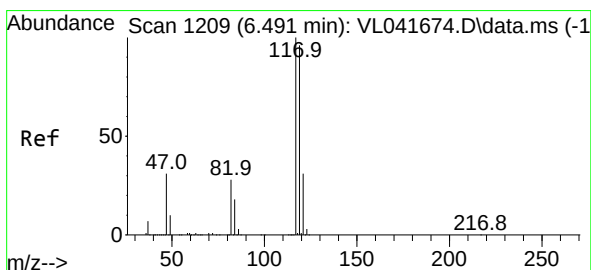
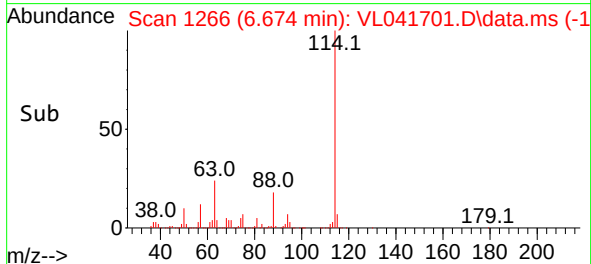
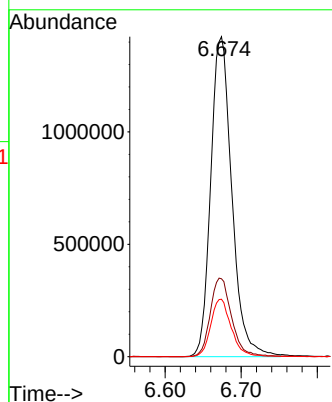
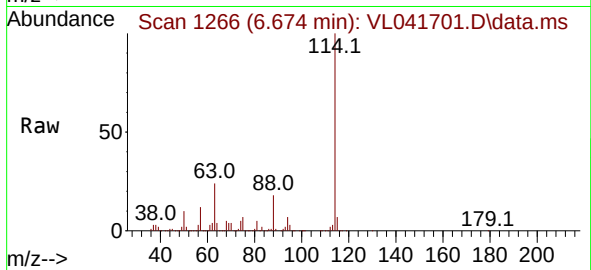
Tgt Ion:114 Resp: 2742439

Ion Ratio Lower Upper

114 100

63 24.8 20.3 30.5

88 17.6 14.2 21.4



#35

Carbon Tetrachloride

Concen: 29.224 ppbv

RT: 6.513 min Scan# 1216

Delta R.T. 0.023 min

Lab File: VL041701.D

Acq: 20 Nov 2024 15:54

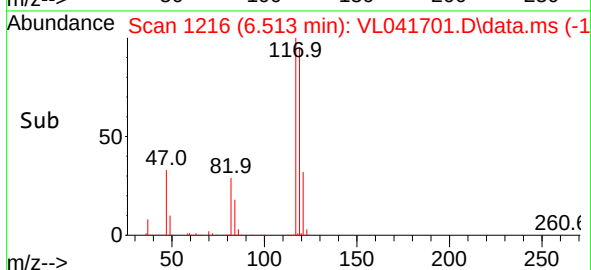
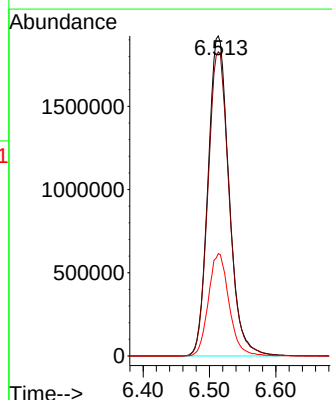
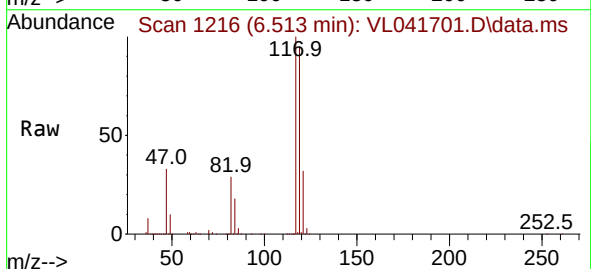
Tgt Ion:117 Resp: 4228471

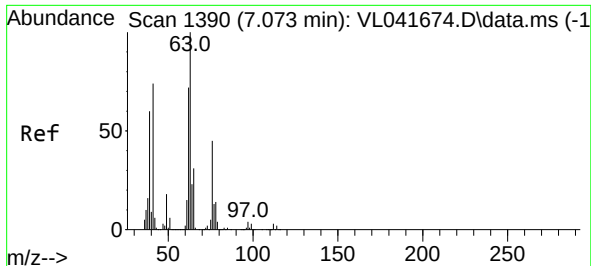
Ion Ratio Lower Upper

117 100

119 95.0 77.2 115.8

121 32.0 25.0 37.4





#39

1,2-Dichloropropane

Concen: 8.389 ppbv

RT: 6.671 min Scan# 11

Delta R.T. -0.402 min

Lab File: VL041701.D

Acq: 20 Nov 2024 15:54

Instrument :

MSVOA_L

ClientSampleId :

E070-1100

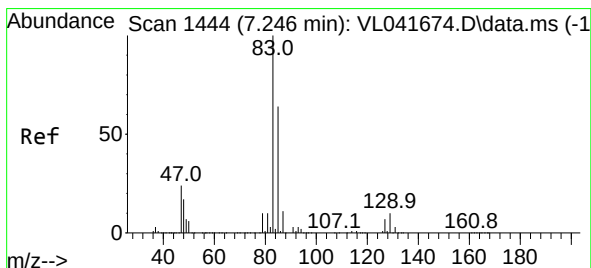
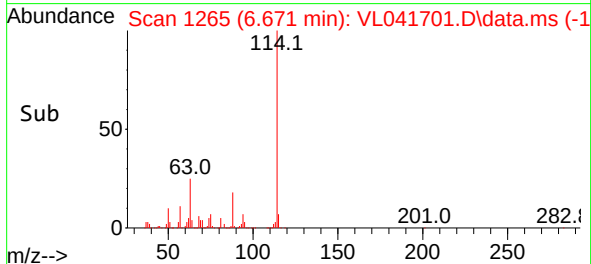
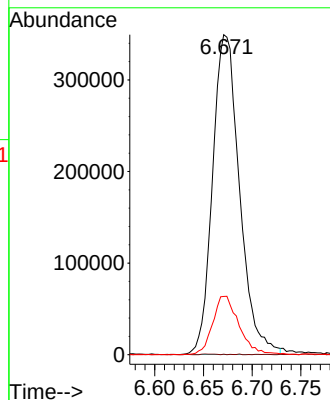
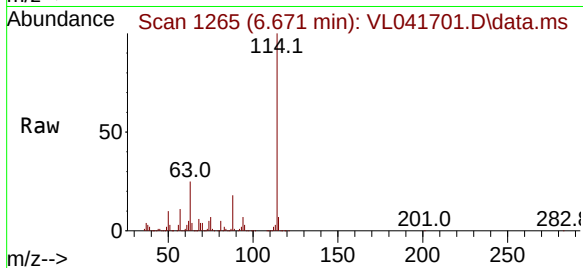
Tgt Ion: 63 Resp: 673604

Ion Ratio Lower Upper

63 100

41 0.2 59.1 88.7#

62 18.2 57.7 86.5#



#42

Bromodichloromethane

Concen: 20.947 ppbv

RT: 7.269 min Scan# 1451

Delta R.T. 0.023 min

Lab File: VL041701.D

Acq: 20 Nov 2024 15:54

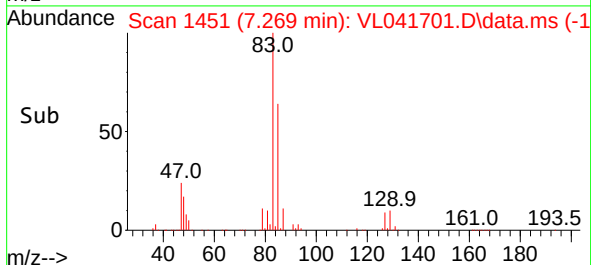
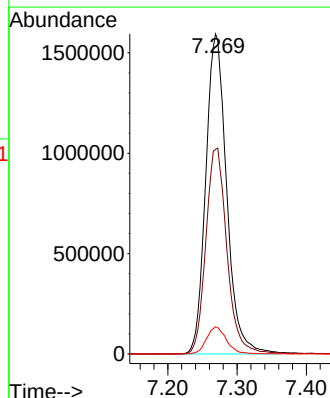
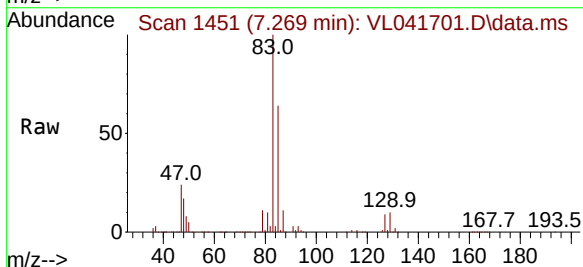
Tgt Ion: 83 Resp: 3336894

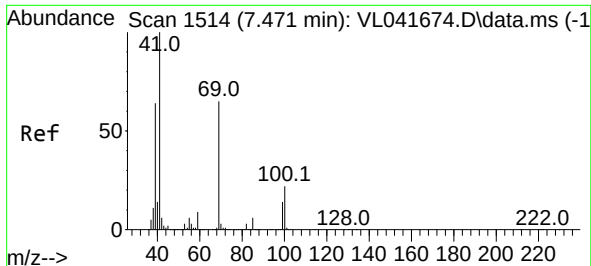
Ion Ratio Lower Upper

83 100

85 63.9 51.2 76.8

127 8.5 6.0 9.0

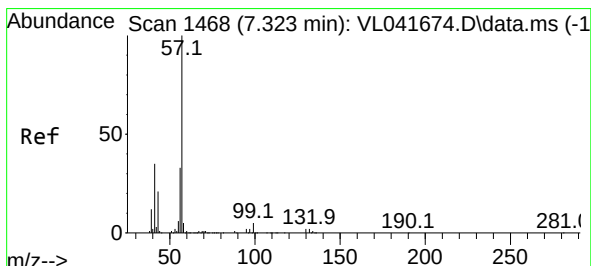
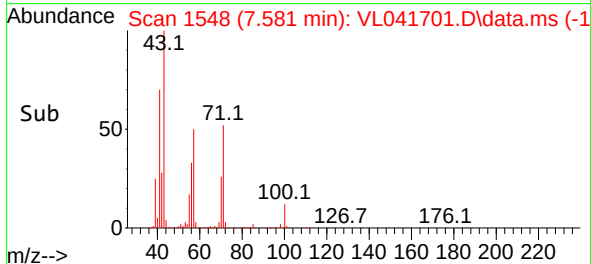
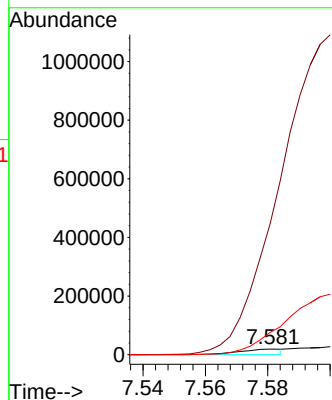
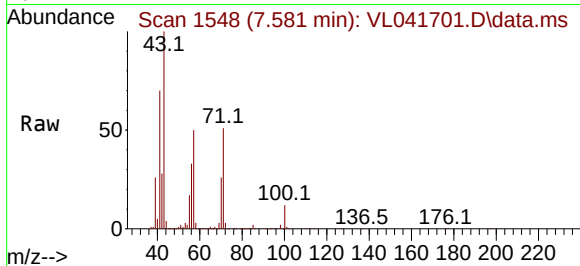




#43
Methyl Methacrylate
Concen: 0.253 ppbv
RT: 7.581 min Scan# 1548
Delta R.T. 0.109 min
Lab File: VL041701.D
Acq: 20 Nov 2024 15:54

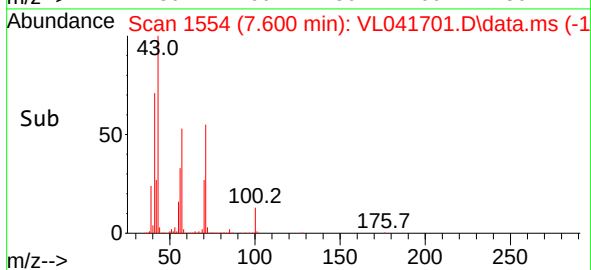
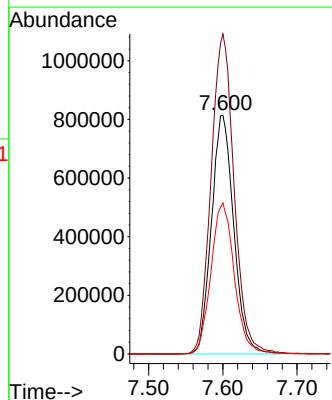
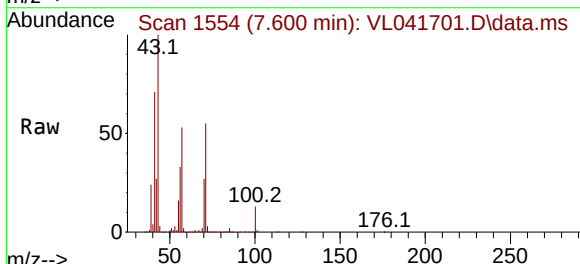
Instrument :
MSVOA_L
ClientSampleId :
E070-1100

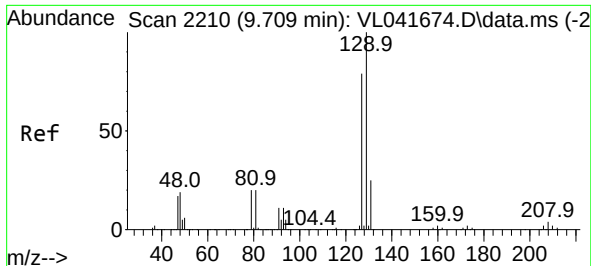
Tgt Ion: 69 Resp: 18055
Ion Ratio Lower Upper
69 100
41 0.0 119.8 179.6#
100 0.0 27.3 40.9#



#44
2,2,4-Trimethylpentane
Concen: 4.931 ppbv
RT: 7.600 min Scan# 1554
Delta R.T. 0.277 min
Lab File: VL041701.D
Acq: 20 Nov 2024 15:54

Tgt Ion: 57 Resp: 1697345
Ion Ratio Lower Upper
57 100
41 138.6 27.0 40.6#
56 66.4 25.8 38.6#

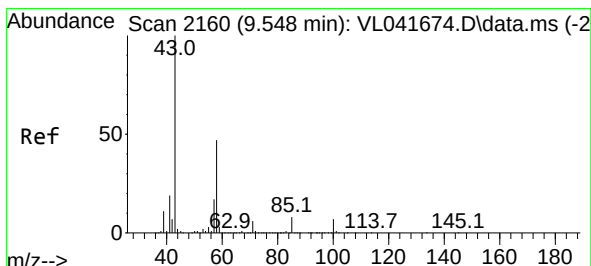
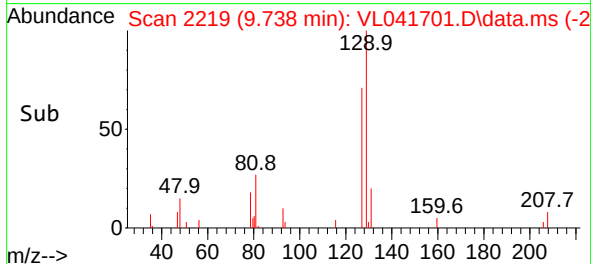
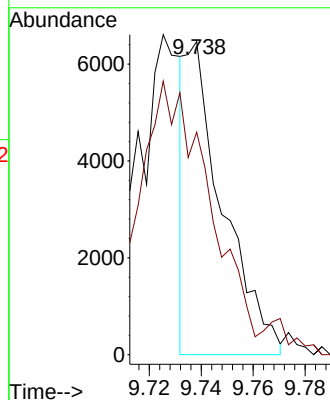
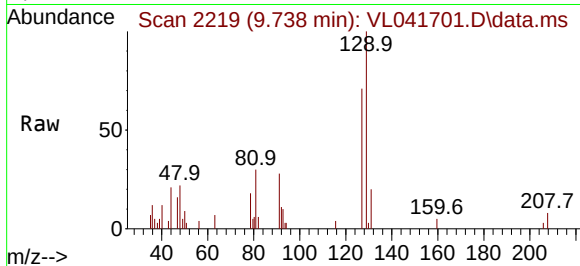




#48
 Dibromochloromethane
 Concen: 0.049 ppbv
 RT: 9.738 min Scan# 2119
 Delta R.T. 0.029 min
 Lab File: VL041701.D
 Acq: 20 Nov 2024 15:54

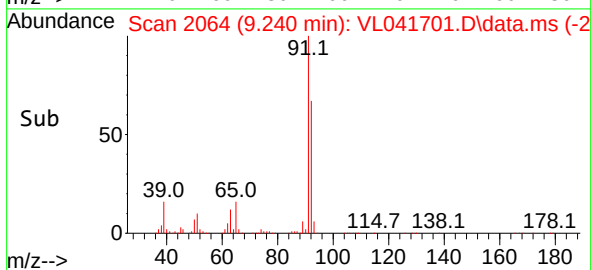
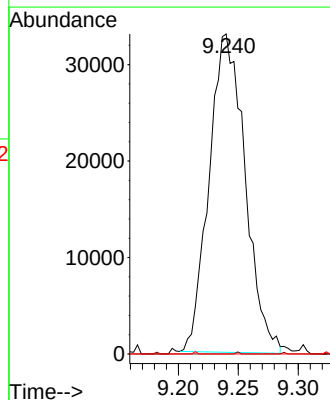
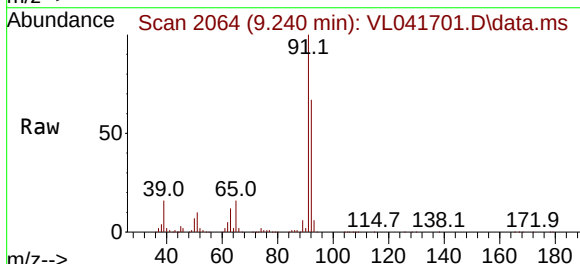
Instrument :
 MSVOA_1
 ClientSampleId :
 E070-1100

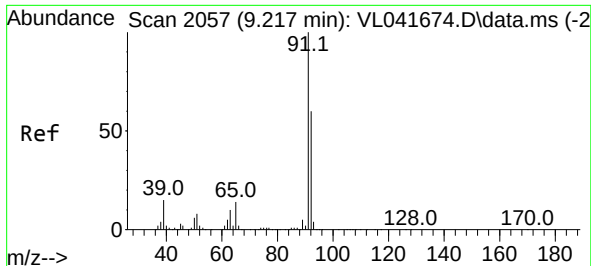
Tgt Ion:129 Resp: 6424
 Ion Ratio Lower Upper
 129 100
 127 0.0 39.1 117.2#



#51
 2-Hexanone
 Concen: 0.451 ppbv
 RT: 9.240 min Scan# 2064
 Delta R.T. -0.309 min
 Lab File: VL041701.D
 Acq: 20 Nov 2024 15:54

Tgt Ion: 43 Resp: 68893
 Ion Ratio Lower Upper
 43 100
 58 0.0 37.0 55.6#
 98 0.1 0.6 0.8#

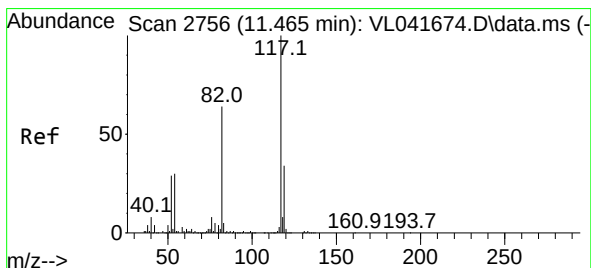
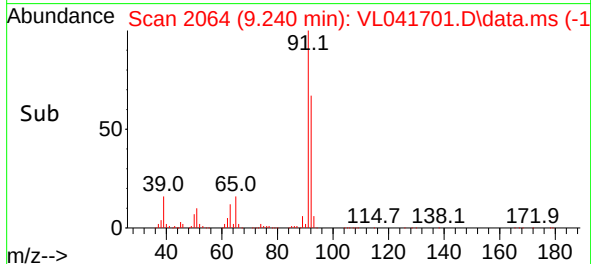
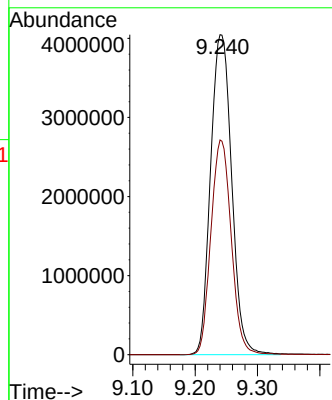
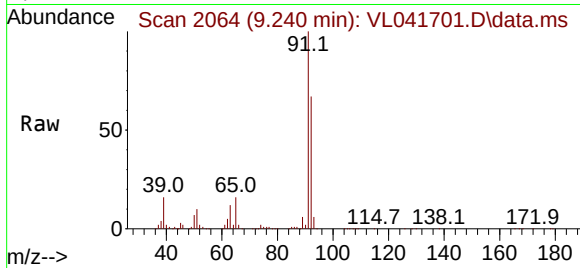




#53
Toluene
Concen: 44.554 ppbv
RT: 9.240 min Scan# 2057
Delta R.T. 0.023 min
Lab File: VL041701.D
Acq: 20 Nov 2024 15:54

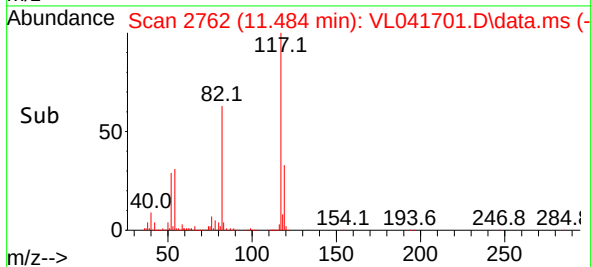
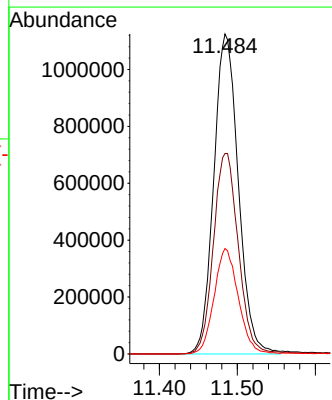
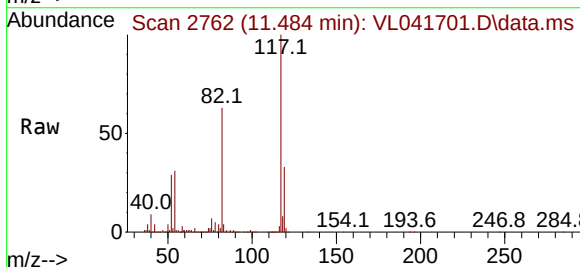
Instrument :
MSVOA_L
ClientSampleId :
E070-1100

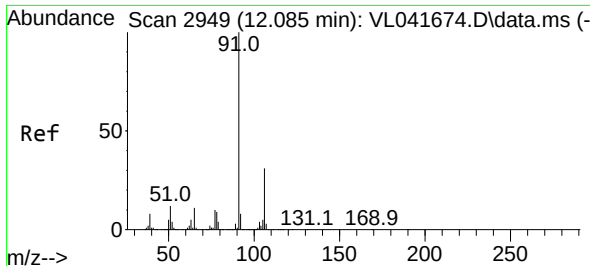
Tgt Ion: 91 Resp: 9520444
Ion Ratio Lower Upper
91 100
92 64.8 49.0 73.4



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.484 min Scan# 2762
Delta R.T. 0.019 min
Lab File: VL041701.D
Acq: 20 Nov 2024 15:54

Tgt Ion: 117 Resp: 2469424
Ion Ratio Lower Upper
117 100
82 63.8 49.8 74.8
119 32.7 24.2 36.4

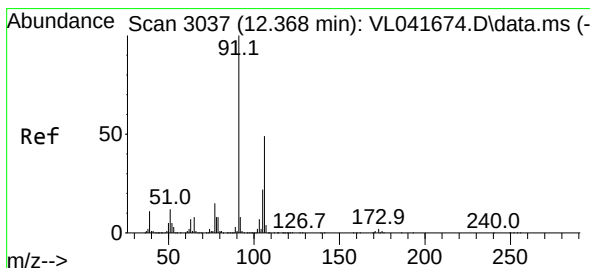
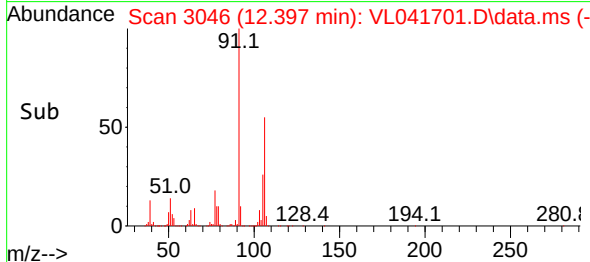
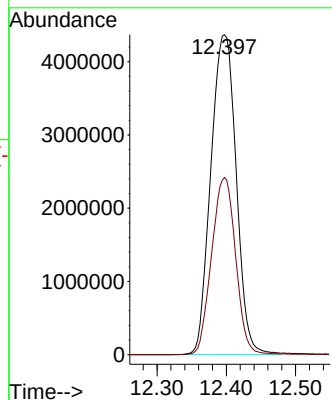
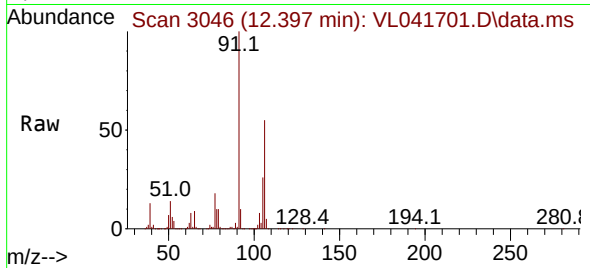




#58
Ethyl Benzene
Concen: 41.112 ppbv
RT: 12.397 min Scan# 3046
Delta R.T. 0.312 min
Lab File: VL041701.D
Acq: 20 Nov 2024 15:54

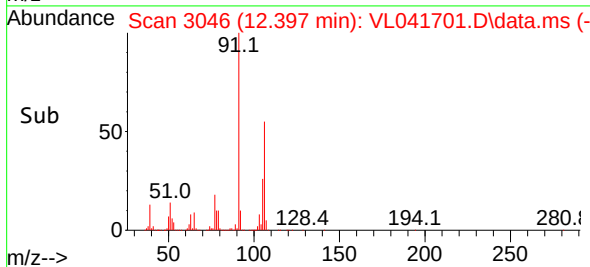
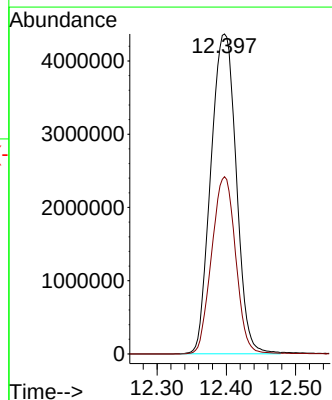
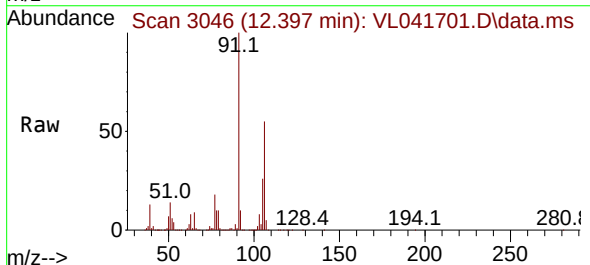
Instrument :
MSVOA_1
ClientSampleId :
E070-1100

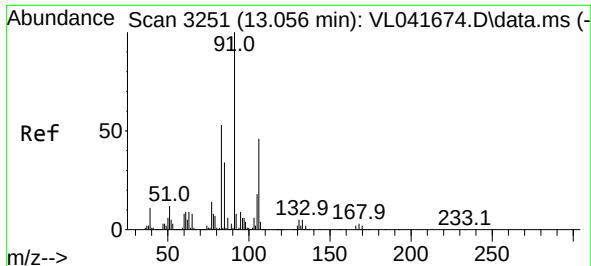
Tgt Ion: 91 Resp:11129849
Ion Ratio Lower Upper
91 100
106 55.4 24.9 37.3#



#59
m/p-Xylene
Concen: 45.909 ppbv
RT: 12.397 min Scan# 3046
Delta R.T. 0.029 min
Lab File: VL041701.D
Acq: 20 Nov 2024 15:54

Tgt Ion: 91 Resp:11129849
Ion Ratio Lower Upper
91 100
106 52.6 36.9 55.3

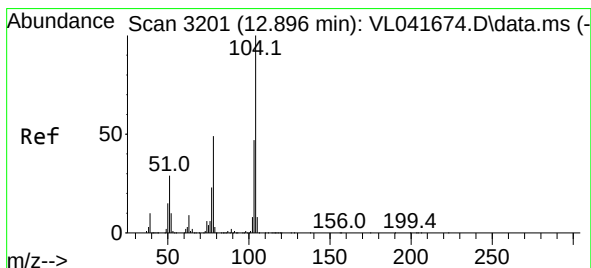
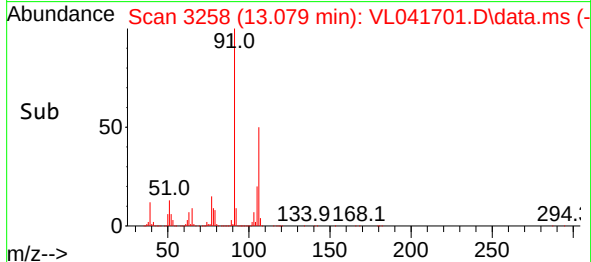
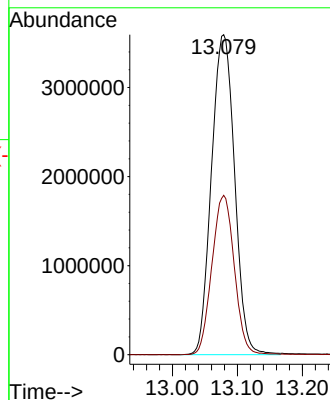
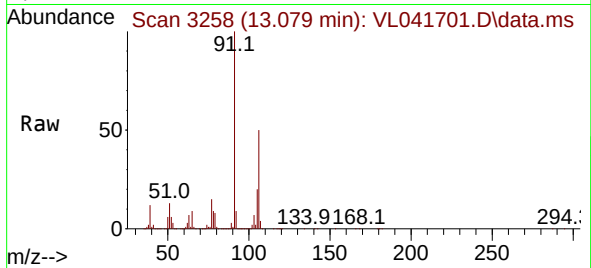




#60
o-Xylene
Concen: 38.448 ppbv
RT: 13.079 min Scan# 31
Delta R.T. 0.023 min
Lab File: VL041701.D
Acq: 20 Nov 2024 15:54

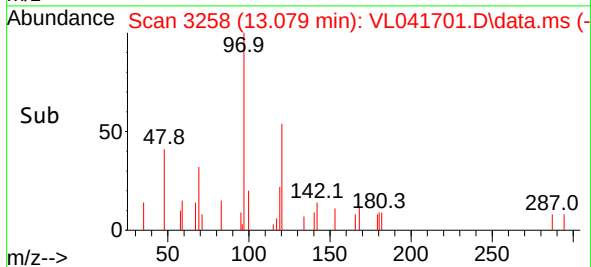
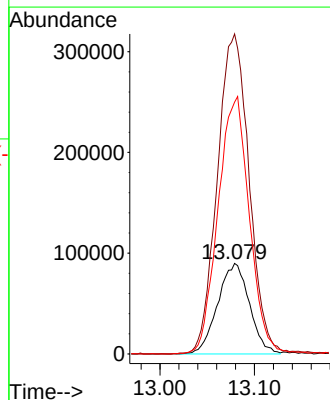
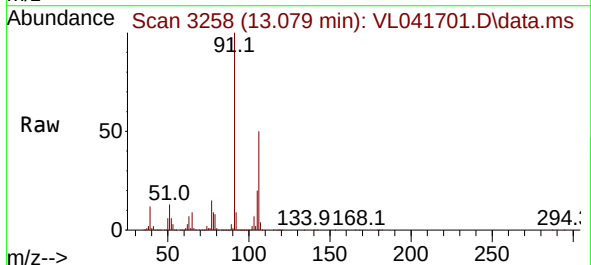
Instrument :
MSVOA_L
ClientSampleId :
E070-1100

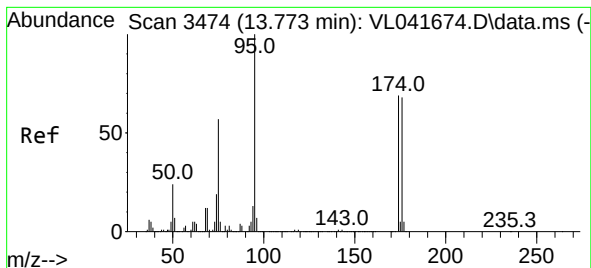
Tgt Ion: 91 Resp: 8888252
Ion Ratio Lower Upper
91 100
106 48.2 23.2 69.6



#61
Styrene
Concen: 2.194 ppbv
RT: 13.079 min Scan# 3258
Delta R.T. 0.183 min
Lab File: VL041701.D
Acq: 20 Nov 2024 15:54

Tgt Ion:104 Resp: 209302
Ion Ratio Lower Upper
104 100
78 358.3 39.8 59.8#
103 282.7 37.4 56.0#

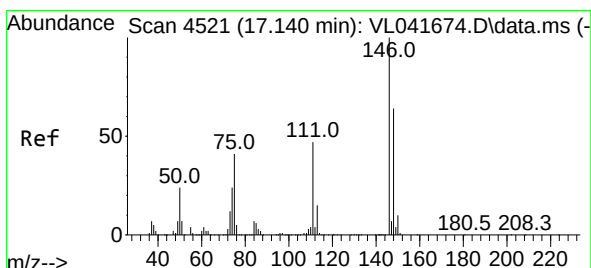
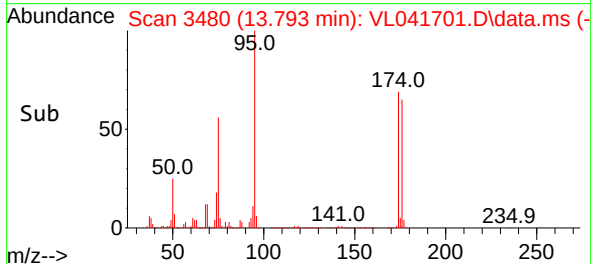
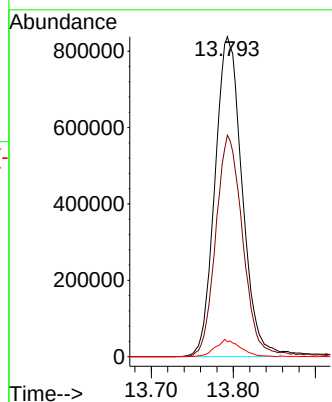
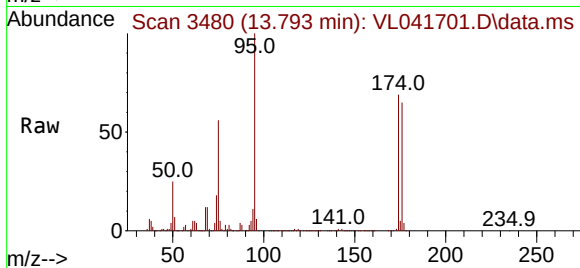




#68
1-Bromo-4-Fluorobenzene
Concen: 10.570 ppbv
RT: 13.793 min Scan# 3474
Delta R.T. 0.019 min
Lab File: VL041701.D
Acq: 20 Nov 2024 15:54

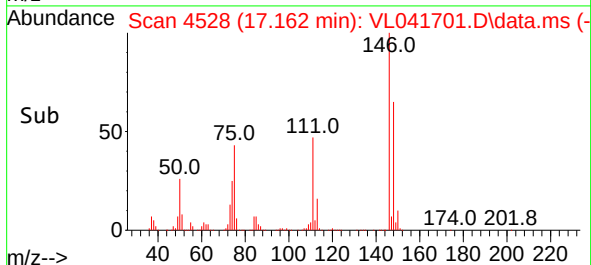
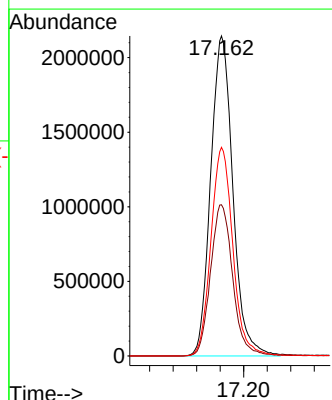
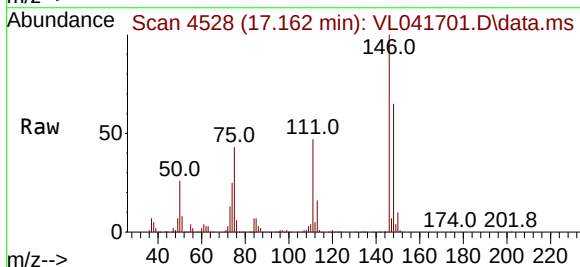
Instrument :
MSVOA_L
ClientSampleId :
E070-1100

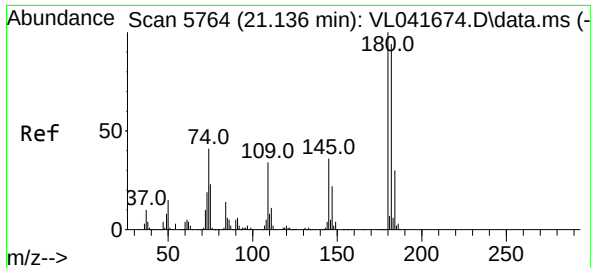
Tgt Ion: 95 Resp: 1923146
Ion Ratio Lower Upper
95 100
174 70.2 55.6 83.4
175 5.1 4.2 6.2



#77
1,2-Dichlorobenzene
Concen: 33.447 ppbv
RT: 17.162 min Scan# 4528
Delta R.T. 0.023 min
Lab File: VL041701.D
Acq: 20 Nov 2024 15:54

Tgt Ion: 146 Resp: 5621685
Ion Ratio Lower Upper
146 100
111 47.3 23.4 70.3
148 64.5 32.1 96.5





#81

1,2,4-Trichlorobenzene

Concen: 27.478 ppbv

RT: 21.162 min Scan# 51

Delta R.T. 0.026 min

Lab File: VL041701.D

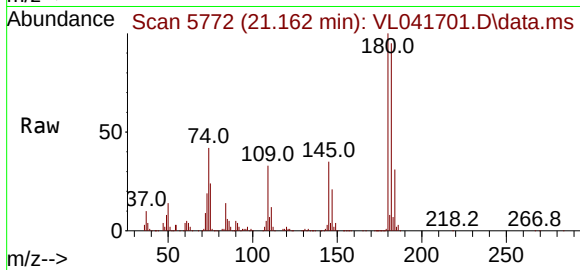
Acq: 20 Nov 2024 15:54

Instrument :

MSVOA_L

ClientSampleId :

E070-1100



Tgt Ion:180 Resp: 2922058

Ion	Ratio	Lower	Upper
180	100		
182	99.9	78.2	117.2
184	31.8	25.0	37.4

