

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112024\
 Data File : VL041702.D
 Acq On : 20 Nov 2024 16:34
 Operator : SY/MD
 Sample : P4633-01 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 E070-1100

Quant Time: Nov 21 05:11:25 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)

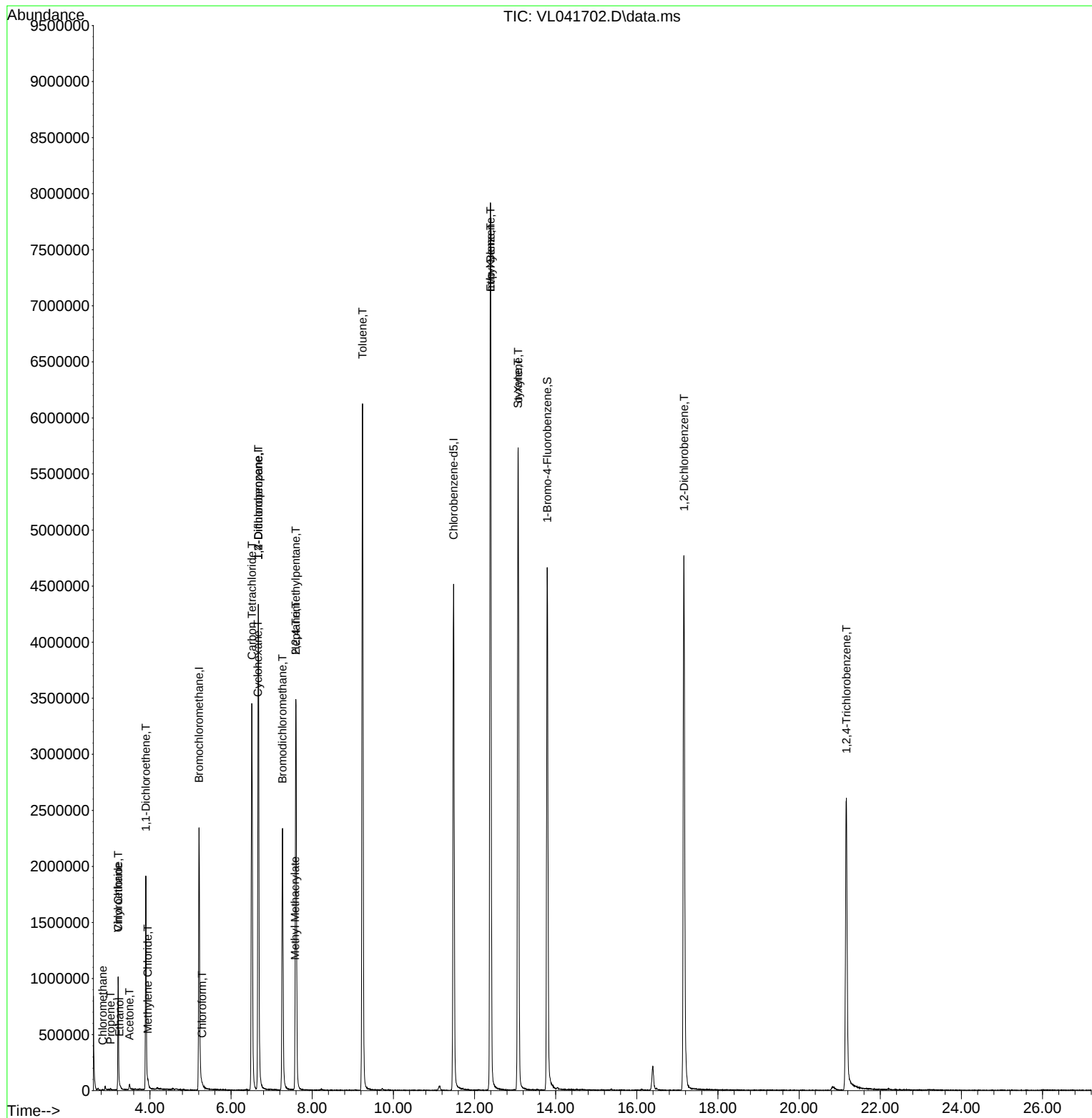
Internal Standards						
1) Bromochloromethane	5.211	49	1168943	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.671	114	3239599	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.484	117	2918692	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.793	95	2266212	10.538	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.400%
Target Compounds						
					Qvalue	
4) Chloromethane	2.835	50	4001	0.050	ppbv #	71
5) Vinyl Chloride	3.218	62	24954	0.344	ppbv #	1
7) Chloroethane	3.218	64	644279	24.326	ppbv	100
9) Propene	3.031	41	2126	0.032	ppbv	93
10) Heptane	7.597	43	1652532	11.112	ppbv	100
13) Ethanol	3.247	45	168	0.041	ppbv #	40
15) Acetone	3.497	43	44589	0.310	ppbv #	82
18) 1,1-Dichloroethene	3.899	96	536046	9.137	ppbv	97
20) Methylene Chloride	3.947	84	10565	0.200	ppbv #	88
29) Chloroform	5.288	83	7798	0.041	ppbv	92
30) Cyclohexane	6.661	84	7272	0.075	ppbv #	1
35) Carbon Tetrachloride	6.513	117	2140108	12.521	ppbv	98
39) 1,2-Dichloropropane	6.671	63	799814	8.432	ppbv #	24
42) Bromodichloromethane	7.269	83	1627510	8.649	ppbv	99
43) Methyl Methacrylate	7.574	69	8256	0.098	ppbv #	1
44) 2,2,4-Trimethylpentane	7.597	57	820939	2.019	ppbv #	1
53) Toluene	9.240	91	4992967	19.780	ppbv	99
58) Ethyl Benzene	12.394	91	5976912	18.679	ppbv #	64
59) m/p-Xylene	12.394	91	5976912	20.859	ppbv	94
60) o-Xylene	13.076	91	4596380	16.822	ppbv	99
61) Styrene	13.073	104	104434	0.926	ppbv #	1
77) 1,2-Dichlorobenzene	17.162	146	2754177	13.864	ppbv	100
81) 1,2,4-Trichlorobenzene	21.165	180	1218241	9.693	ppbv	96

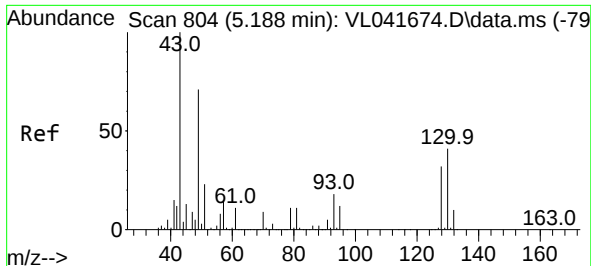
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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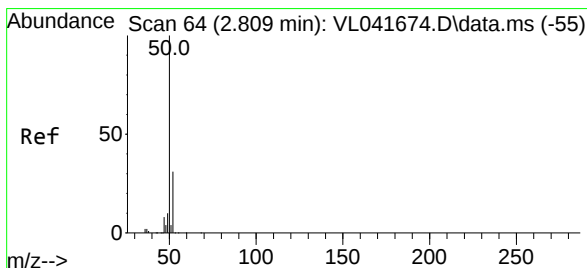
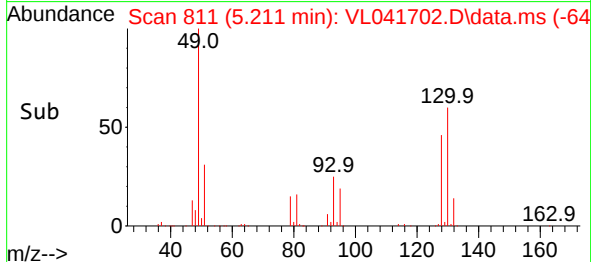
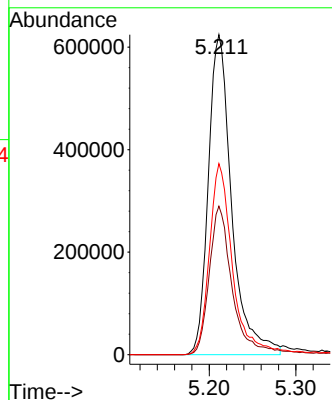
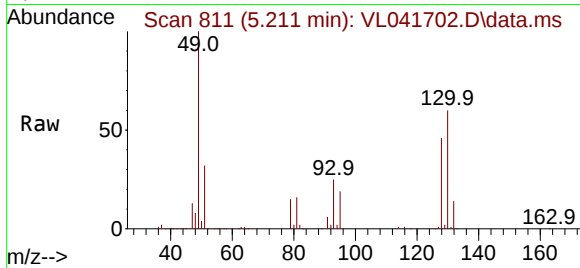




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.211 min Scan# 81
Delta R.T. 0.023 min
Lab File: VL041702.D
Acq: 20 Nov 2024 16:34

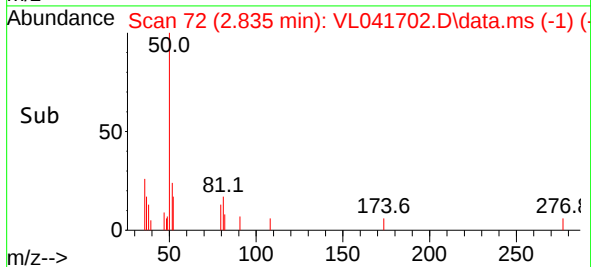
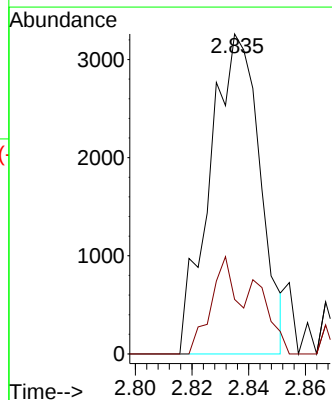
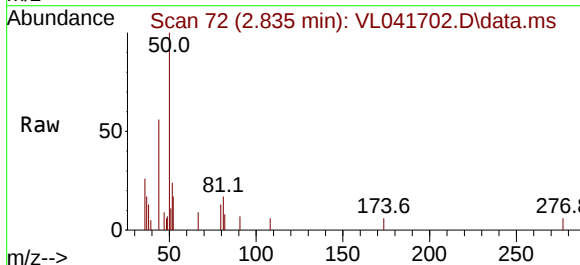
Instrument :
MSVOA_L
ClientSampleId :
E070-1100

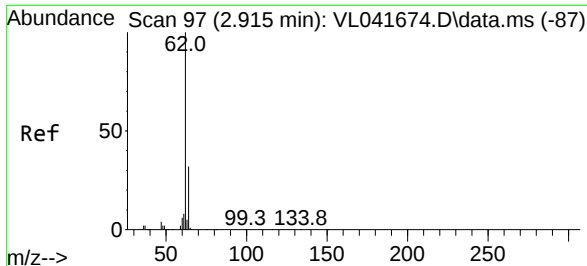
Tgt Ion: 49 Resp: 1168943
Ion Ratio Lower Upper
49 100
128 47.6 23.8 71.2
130 61.3 30.1 90.5



#4
Chloromethane
Concen: 0.050 ppbv
RT: 2.835 min Scan# 72
Delta R.T. 0.026 min
Lab File: VL041702.D
Acq: 20 Nov 2024 16:34

Tgt Ion: 50 Resp: 4001
Ion Ratio Lower Upper
50 100
52 15.4 24.9 37.3#

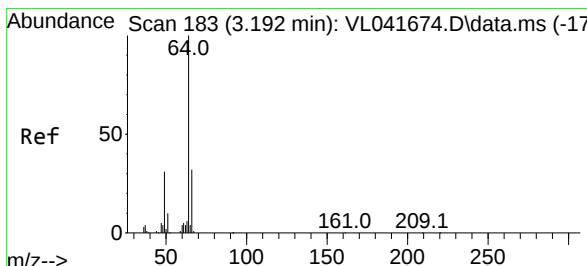
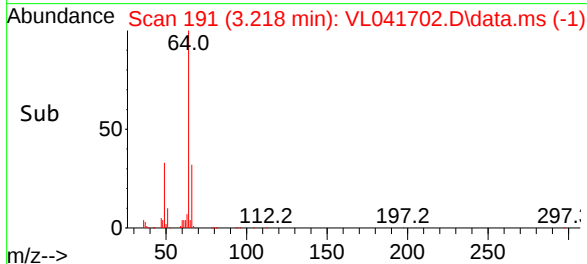
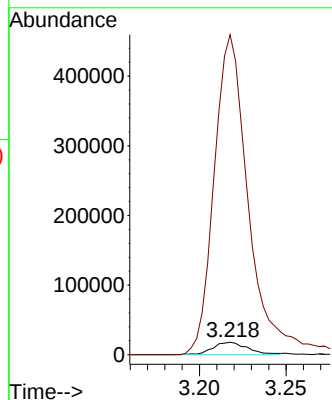
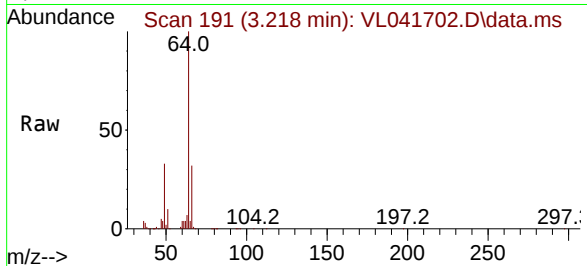




#5
 Vinyl Chloride
 Concen: 0.344 ppbv
 RT: 3.218 min Scan# 191
 Delta R.T. 0.302 min
 Lab File: VL041702.D
 Acq: 20 Nov 2024 16:34

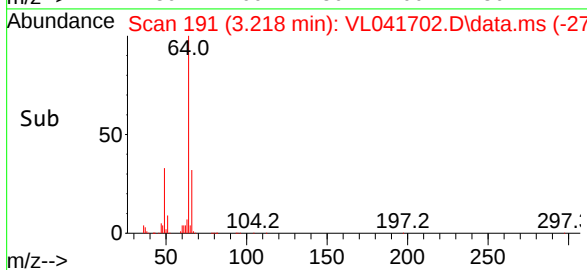
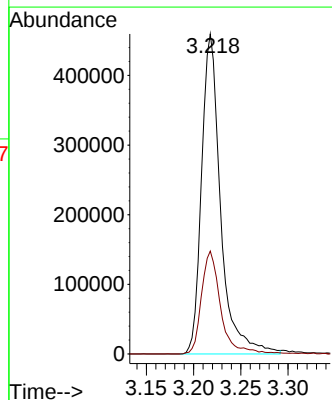
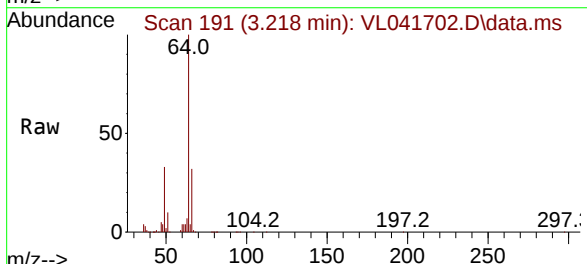
Instrument :
 MSVOA_L
 ClientSampleId :
 E070-1100

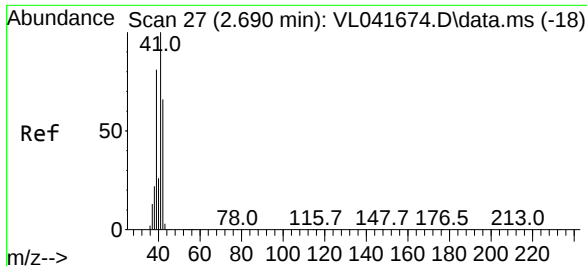
Tgt Ion: 62 Resp: 24954
 Ion Ratio Lower Upper
 62 100
 64 2546.8 25.4 38.2#



#7
 Chloroethane
 Concen: 24.326 ppbv
 RT: 3.218 min Scan# 191
 Delta R.T. 0.026 min
 Lab File: VL041702.D
 Acq: 20 Nov 2024 16:34

Tgt Ion: 64 Resp: 644279
 Ion Ratio Lower Upper
 64 100
 66 32.2 25.9 38.9

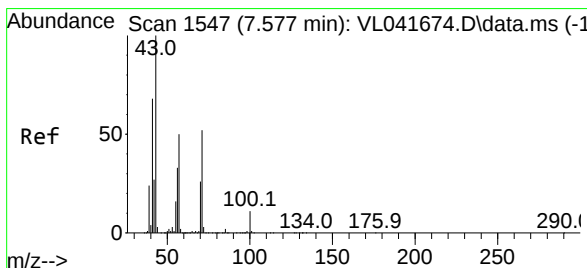
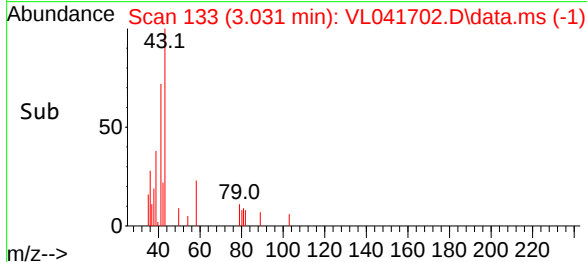
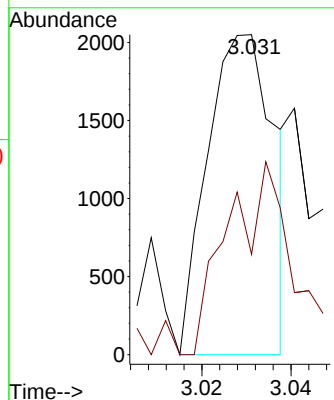
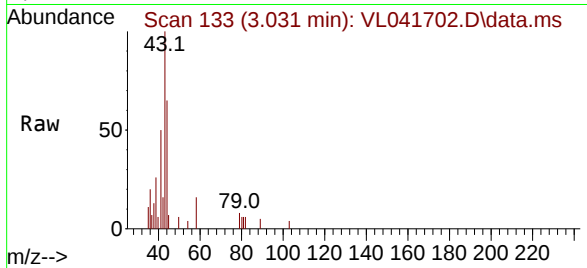




#9
Propene
Concen: 0.032 ppbv
RT: 3.031 min Scan# 11
Delta R.T. 0.341 min
Lab File: VL041702.D
Acq: 20 Nov 2024 16:34

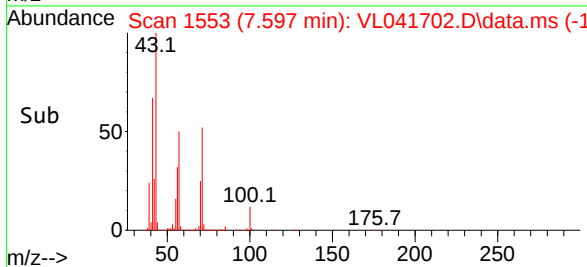
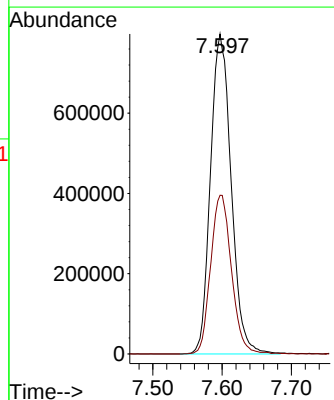
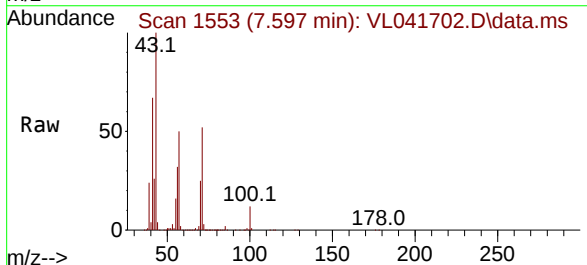
Instrument :
MSVOA_L
ClientSampleId :
E070-1100

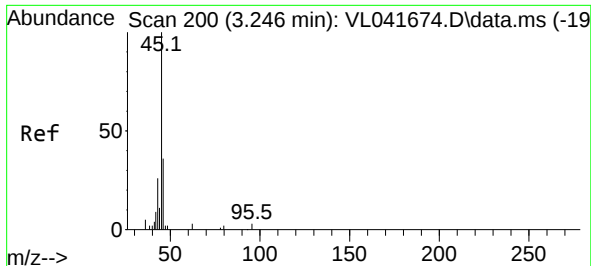
Tgt Ion: 41 Resp: 2126
Ion Ratio Lower Upper
41 100
42 74.2 55.0 82.4



#10
Heptane
Concen: 11.112 ppbv
RT: 7.597 min Scan# 1553
Delta R.T. 0.019 min
Lab File: VL041702.D
Acq: 20 Nov 2024 16:34

Tgt Ion: 43 Resp: 1652532
Ion Ratio Lower Upper
43 100
57 50.0 40.0 60.0

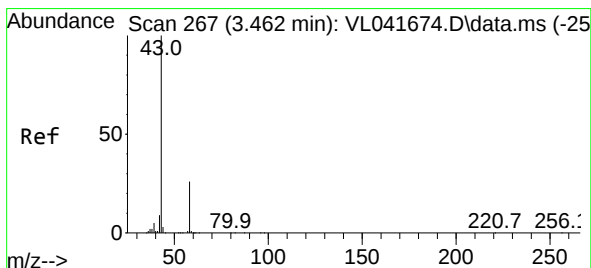
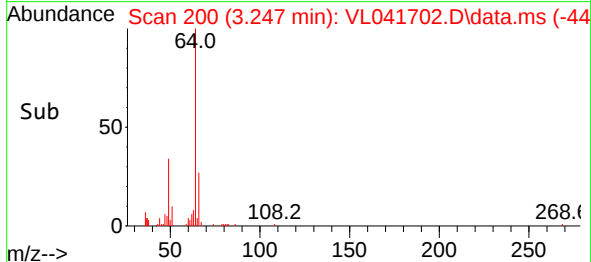
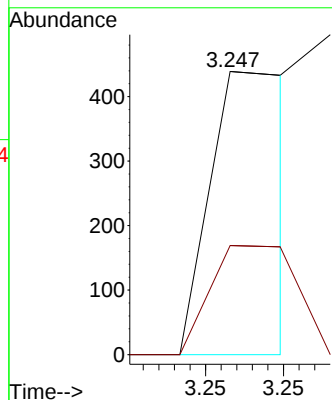
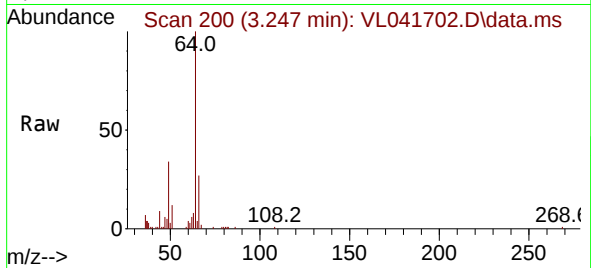




#13
Ethanol
Concen: 0.041 ppbv
RT: 3.247 min Scan# 200
Delta R.T. 0.000 min
Lab File: VL041702.D
Acq: 20 Nov 2024 16:34

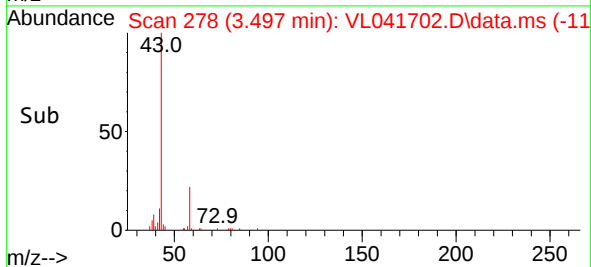
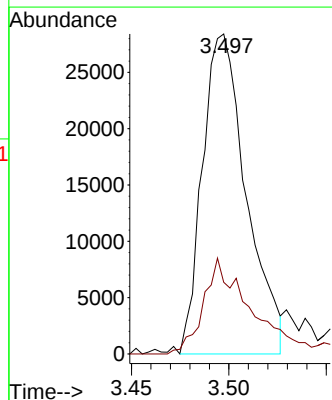
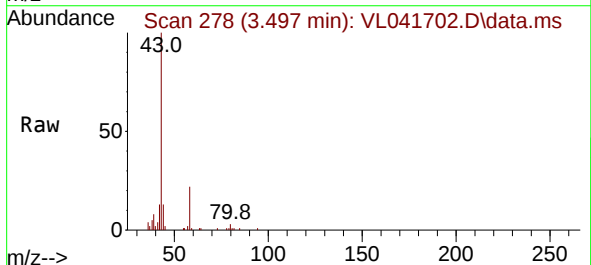
Instrument :
MSVOA_L
ClientSampleId :
E070-1100

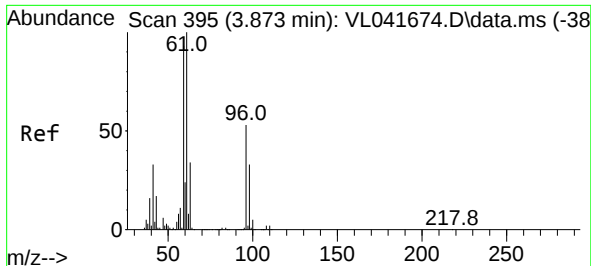
Tgt Ion: 45 Resp: 168
Ion Ratio Lower Upper
45 100
46 0.0 13.8 55.2#



#15
Acetone
Concen: 0.310 ppbv
RT: 3.497 min Scan# 278
Delta R.T. 0.036 min
Lab File: VL041702.D
Acq: 20 Nov 2024 16:34

Tgt Ion: 43 Resp: 44589
Ion Ratio Lower Upper
43 100
58 35.9 21.4 32.0#





#18

1,1-Dichloroethene

Concen: 9.137 ppbv

RT: 3.899 min Scan# 403

Delta R.T. 0.026 min

Lab File: VL041702.D

Acq: 20 Nov 2024 16:34

Instrument :

MSVOA_L

ClientSampleId :

E070-1100

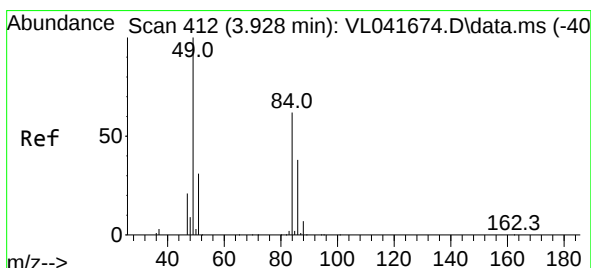
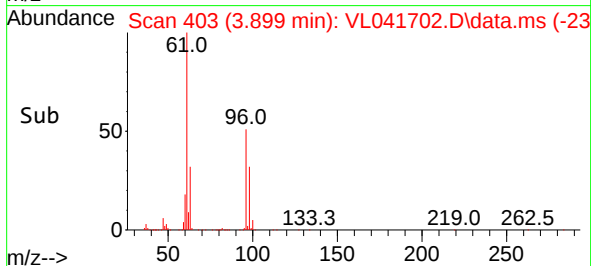
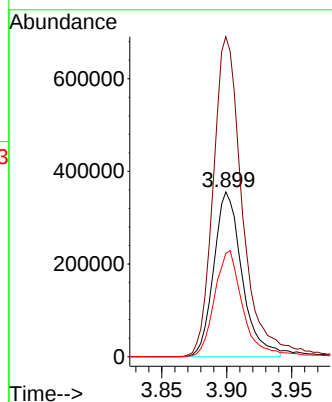
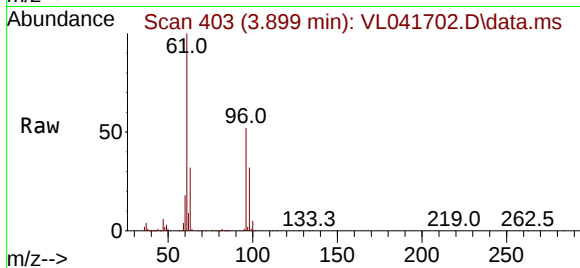
Tgt Ion: 96 Resp: 536046

Ion Ratio Lower Upper

96 100

61 194.1 150.7 226.1

98 62.7 49.4 74.2



#20

Methylene Chloride

Concen: 0.200 ppbv

RT: 3.947 min Scan# 418

Delta R.T. 0.019 min

Lab File: VL041702.D

Acq: 20 Nov 2024 16:34

Tgt Ion: 84 Resp: 10565

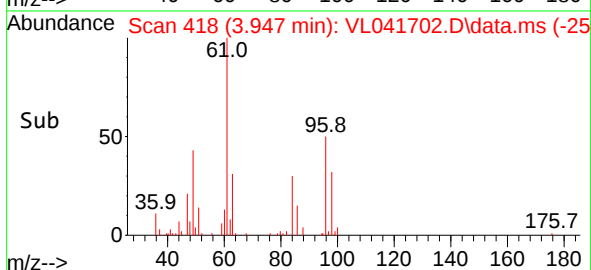
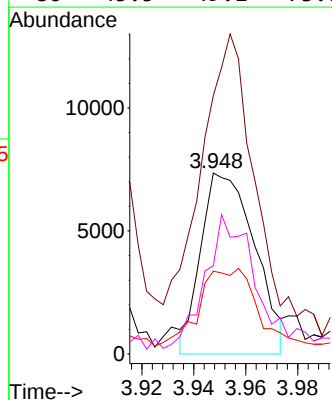
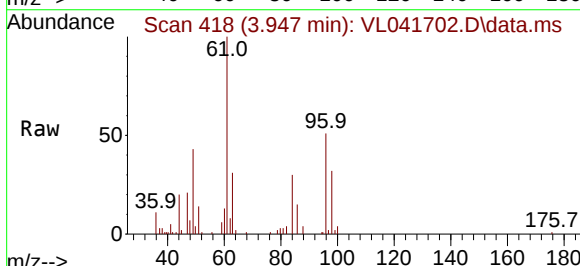
Ion Ratio Lower Upper

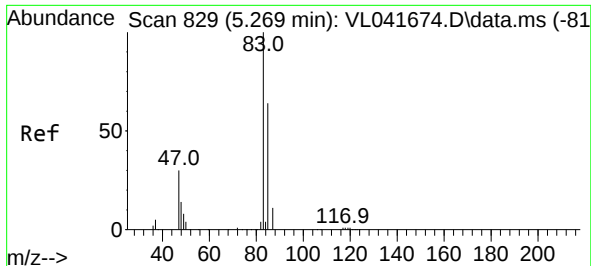
84 100

49 150.9 129.7 194.5

51 39.5 39.8 59.6#

86 45.5 49.1 73.7#





#29

Chloroform

Concen: 0.041 ppbv

RT: 5.288 min Scan# 81

Delta R.T. 0.019 min

Lab File: VL041702.D

Acq: 20 Nov 2024 16:34

Instrument :

MSVOA_L

ClientSampleId :

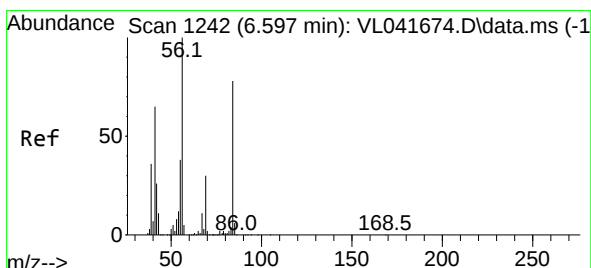
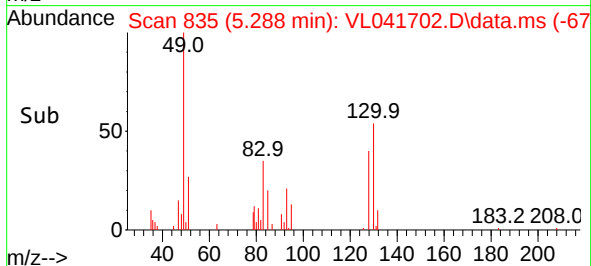
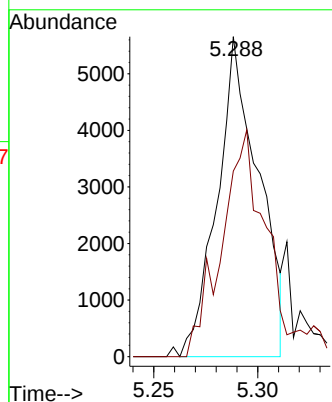
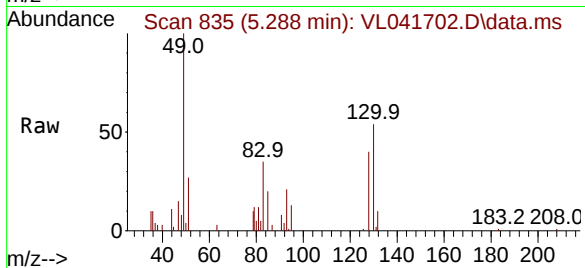
E070-1100

Tgt Ion: 83 Resp: 7798

Ion Ratio Lower Upper

83 100

85 58.0 51.1 76.7



#30

Cyclohexane

Concen: 0.075 ppbv

RT: 6.661 min Scan# 1262

Delta R.T. 0.064 min

Lab File: VL041702.D

Acq: 20 Nov 2024 16:34

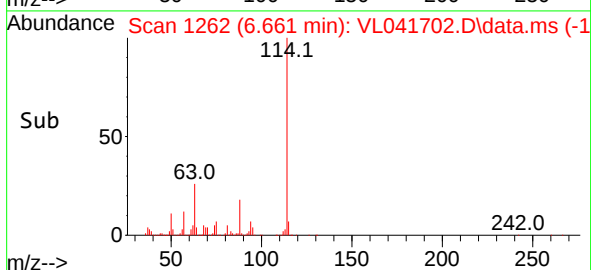
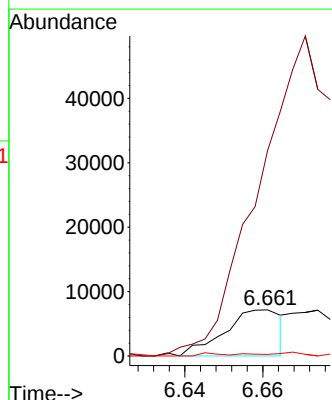
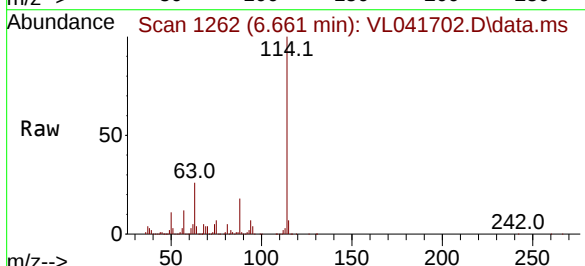
Tgt Ion: 84 Resp: 7272

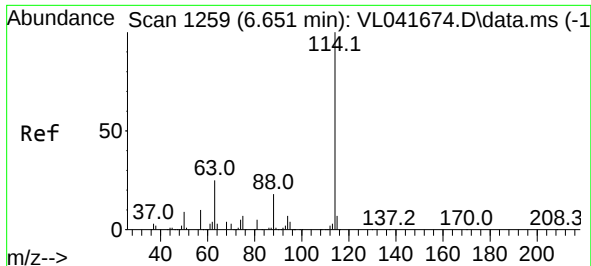
Ion Ratio Lower Upper

84 100

56 1216.7 110.8 166.2#

41 11.3 70.0 105.0#

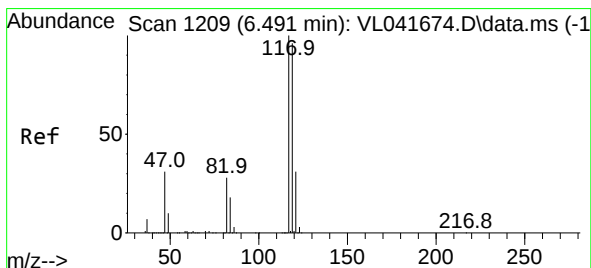
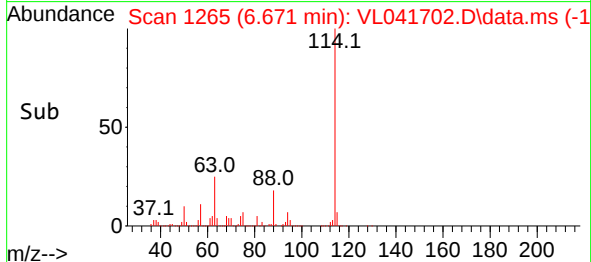
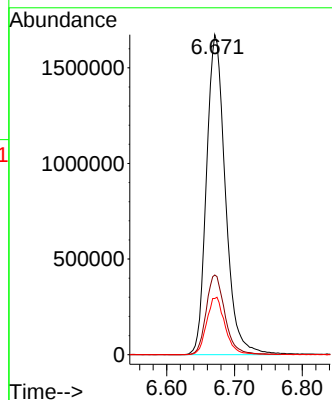
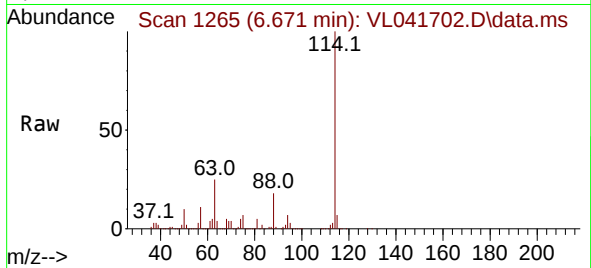




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 6.671 min Scan# 11
 Delta R.T. 0.019 min
 Lab File: VL041702.D
 Acq: 20 Nov 2024 16:34

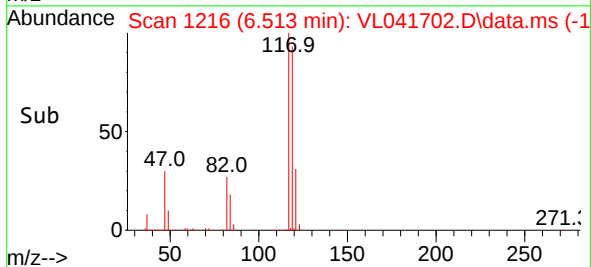
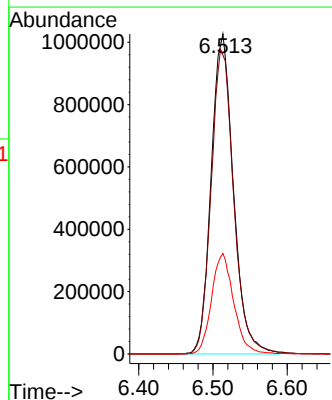
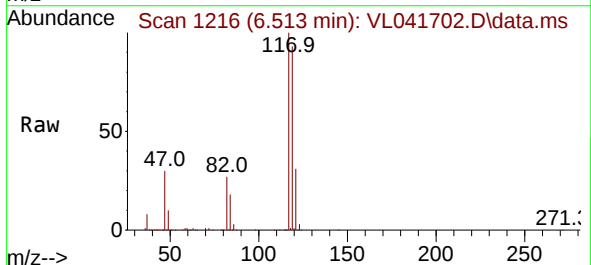
Instrument :
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 E070-1100

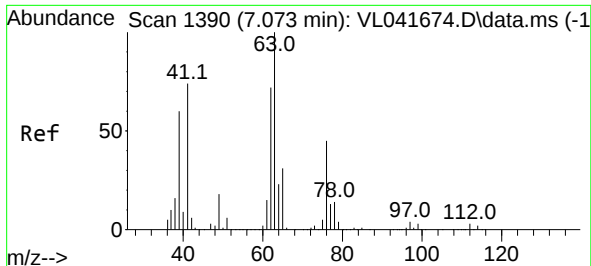
Tgt Ion:114 Resp: 3239599
 Ion Ratio Lower Upper
 114 100
 63 25.0 20.3 30.5
 88 17.6 14.2 21.4



#35
 Carbon Tetrachloride
 Concen: 12.521 ppbv
 RT: 6.513 min Scan# 1216
 Delta R.T. 0.023 min
 Lab File: VL041702.D
 Acq: 20 Nov 2024 16:34

Tgt Ion:117 Resp: 2140108
 Ion Ratio Lower Upper
 117 100
 119 93.4 77.2 115.8
 121 31.4 25.0 37.4





#39

1,2-Dichloropropane

Concen: 8.432 ppbv

RT: 6.671 min Scan# 1

Delta R.T. -0.402 min

Lab File: VL041702.D

Acq: 20 Nov 2024 16:34

Instrument :

MSVOA_L

ClientSampleId :

E070-1100

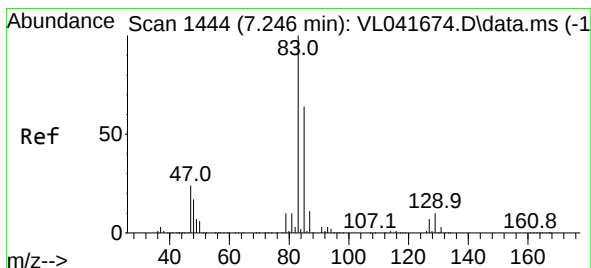
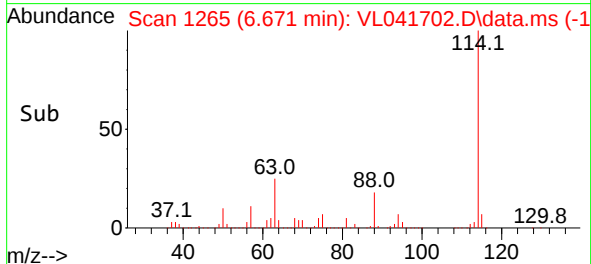
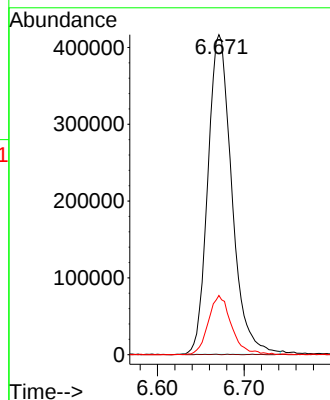
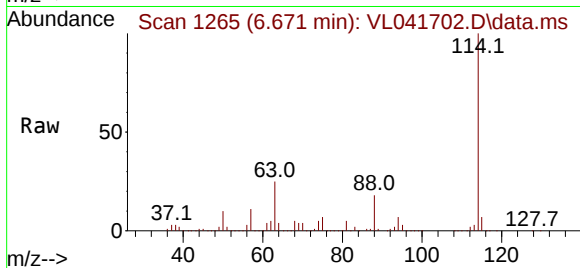
Tgt Ion: 63 Resp: 799814

Ion Ratio Lower Upper

63 100

41 0.0 59.1 88.7#

62 18.5 57.7 86.5#



#42

Bromodichloromethane

Concen: 8.649 ppbv

RT: 7.269 min Scan# 1451

Delta R.T. 0.023 min

Lab File: VL041702.D

Acq: 20 Nov 2024 16:34

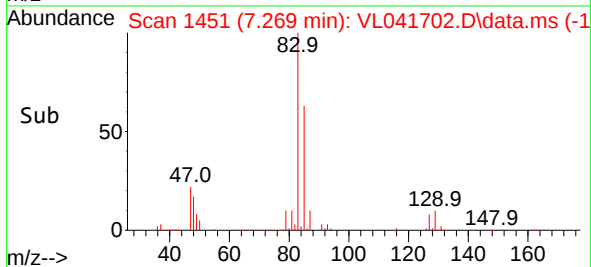
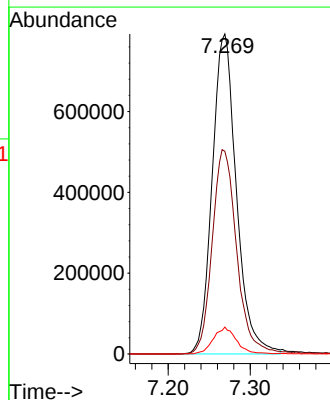
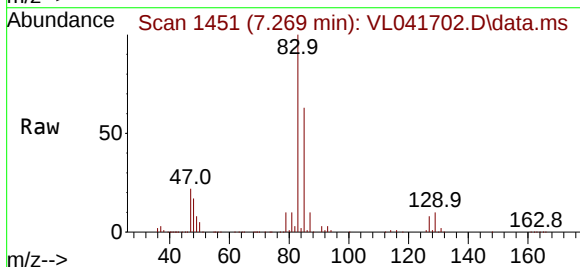
Tgt Ion: 83 Resp: 1627510

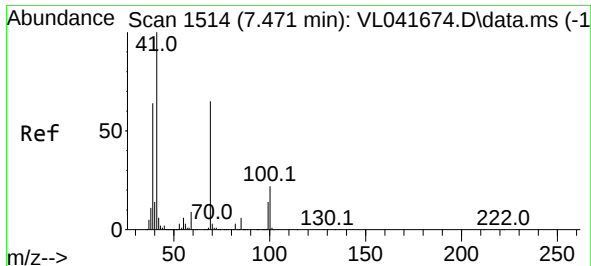
Ion Ratio Lower Upper

83 100

85 63.4 51.2 76.8

127 8.4 6.0 9.0

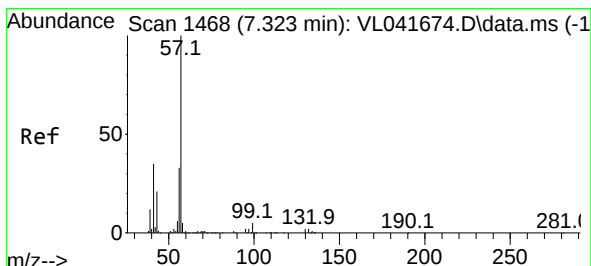
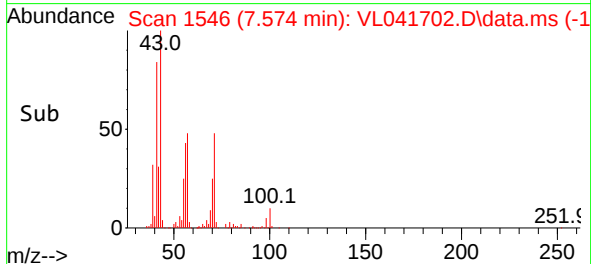
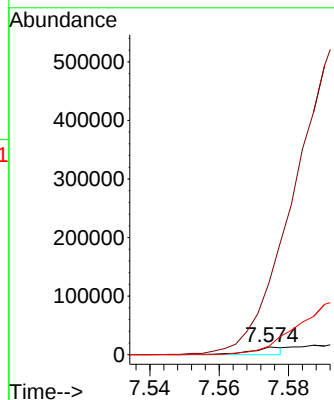
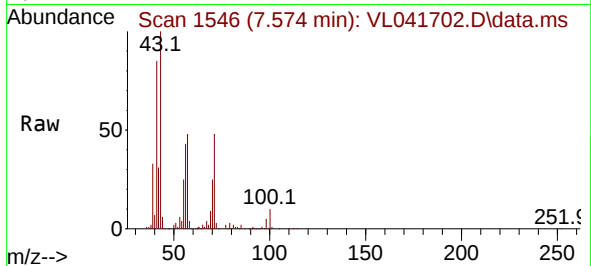




#43
Methyl Methacrylate
Concen: 0.098 ppbv
RT: 7.574 min Scan# 11
Delta R.T. 0.103 min
Lab File: VL041702.D
Acq: 20 Nov 2024 16:34

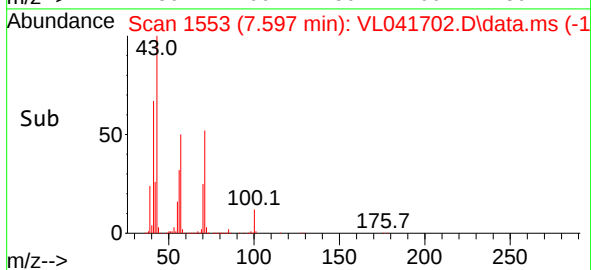
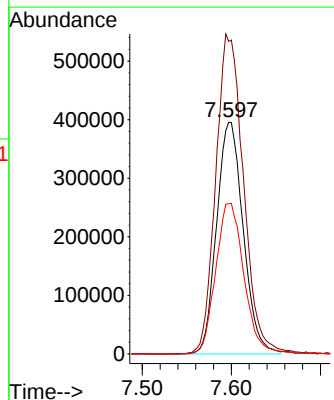
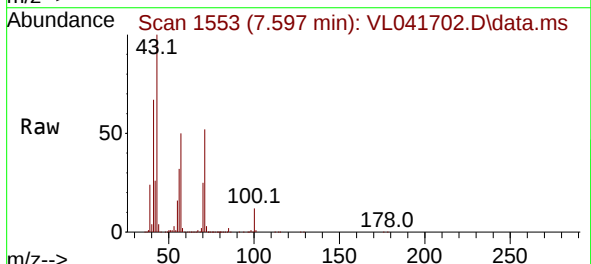
Instrument :
MSVOA_L
ClientSampleId :
E070-1100

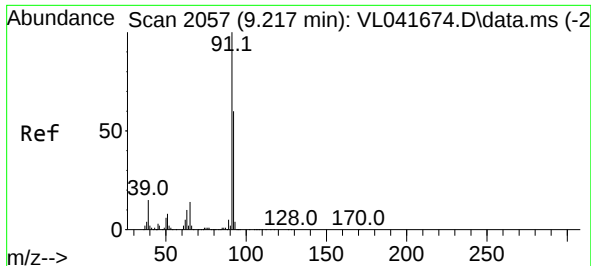
Tgt Ion: 69 Resp: 8256
Ion Ratio Lower Upper
69 100
41 0.0 119.8 179.6#
100 0.0 27.3 40.9#



#44
2,2,4-Trimethylpentane
Concen: 2.019 ppbv
RT: 7.597 min Scan# 1553
Delta R.T. 0.273 min
Lab File: VL041702.D
Acq: 20 Nov 2024 16:34

Tgt Ion: 57 Resp: 820939
Ion Ratio Lower Upper
57 100
41 144.6 27.0 40.6#
56 69.1 25.8 38.6#





#53

Toluene

Concen: 19.780 ppbv

RT: 9.240 min Scan# 2057

Delta R.T. 0.023 min

Lab File: VL041702.D

Acq: 20 Nov 2024 16:34

Instrument :

MSVOA_L

ClientSampleId :

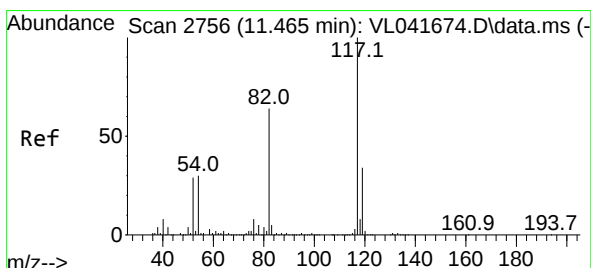
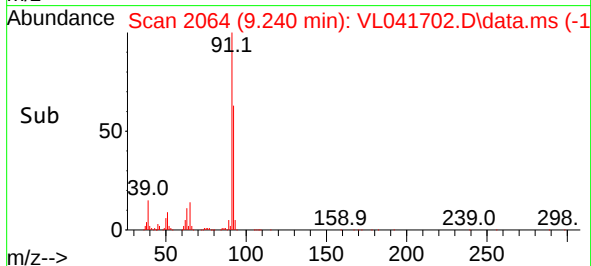
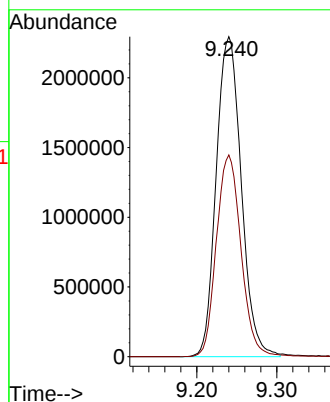
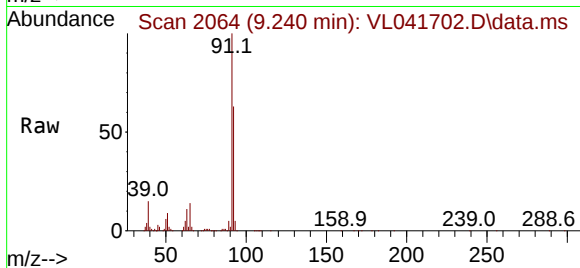
E070-1100

Tgt Ion: 91 Resp: 4992967

Ion Ratio Lower Upper

91 100

92 62.1 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: VL041702.D

Acq: 20 Nov 2024 16:34

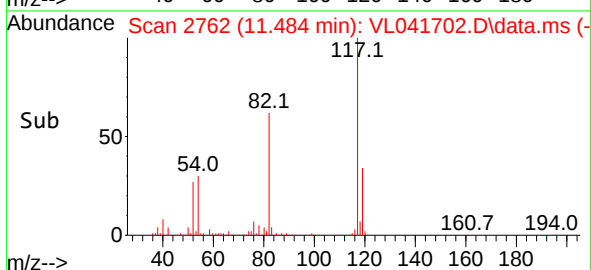
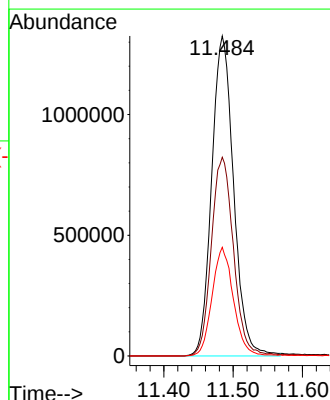
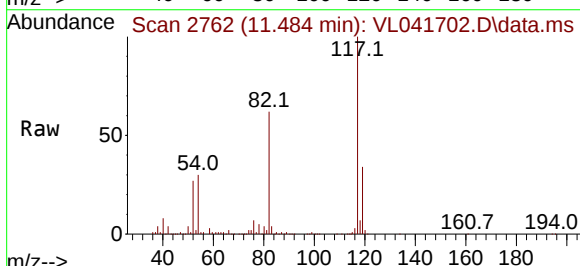
Tgt Ion: 117 Resp: 2918692

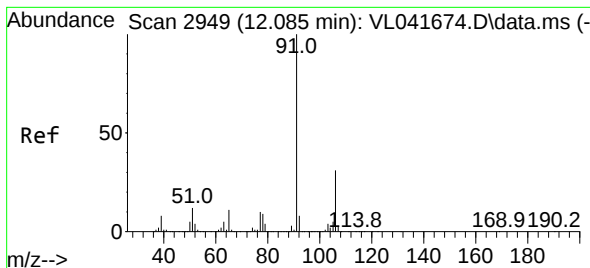
Ion Ratio Lower Upper

117 100

82 63.1 49.8 74.8

119 33.3 24.2 36.4





#58

Ethyl Benzene

Concen: 18.679 ppbv

RT: 12.394 min Scan# 3045

Delta R.T. 0.309 min

Lab File: VL041702.D

Acq: 20 Nov 2024 16:34

Instrument :

MSVOA_L

ClientSampleId :

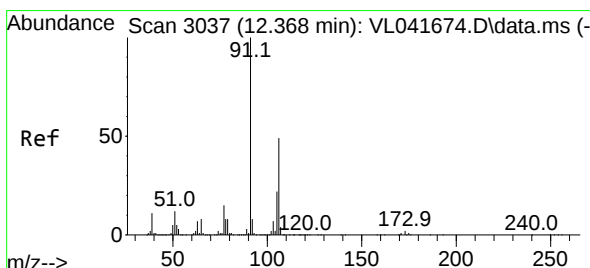
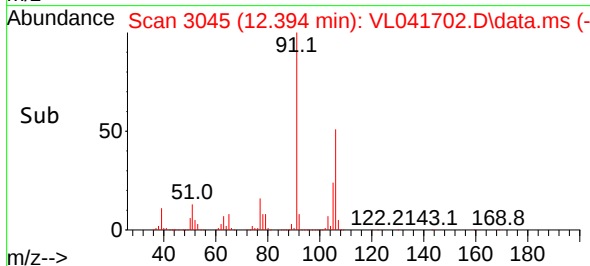
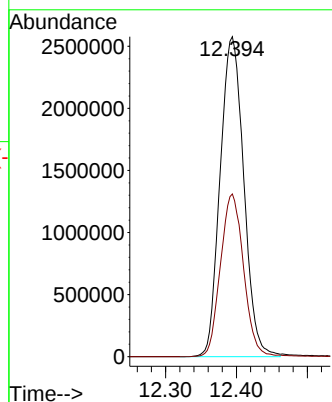
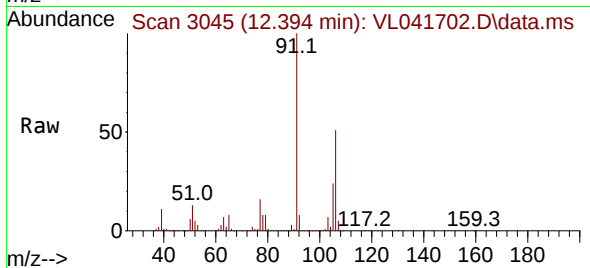
E070-1100

Tgt Ion: 91 Resp: 5976912

Ion Ratio Lower Upper

91 100

106 50.9 24.9 37.3#



#59

m/p-Xylene

Concen: 20.859 ppbv

RT: 12.394 min Scan# 3045

Delta R.T. 0.026 min

Lab File: VL041702.D

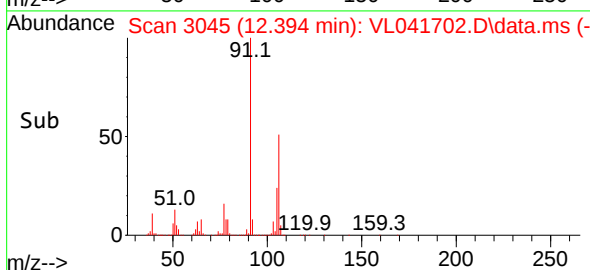
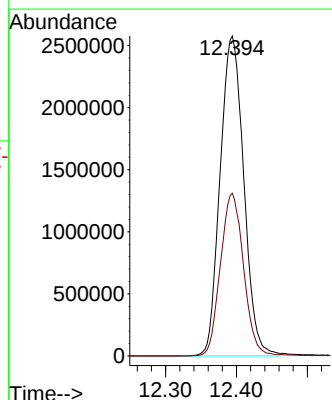
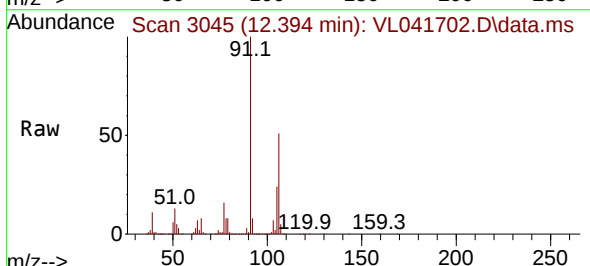
Acq: 20 Nov 2024 16:34

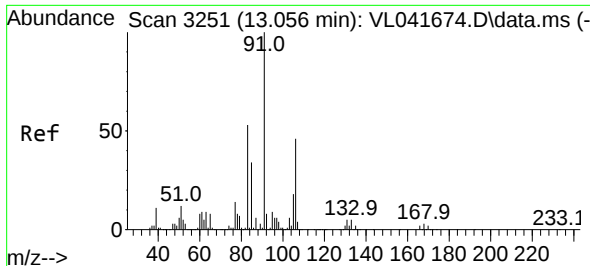
Tgt Ion: 91 Resp: 5976912

Ion Ratio Lower Upper

91 100

106 50.0 36.9 55.3

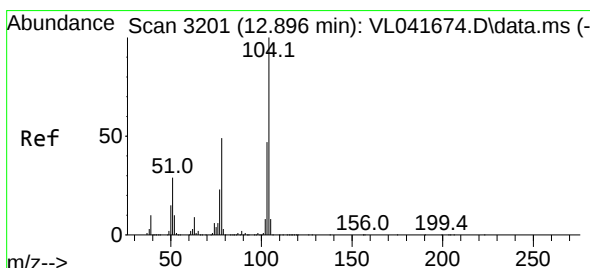
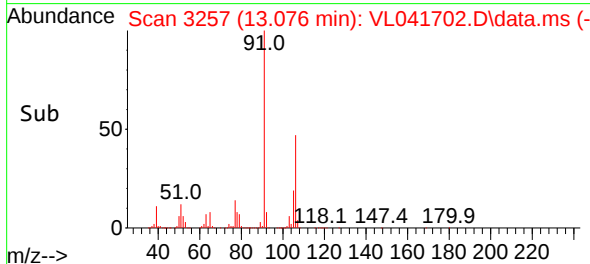
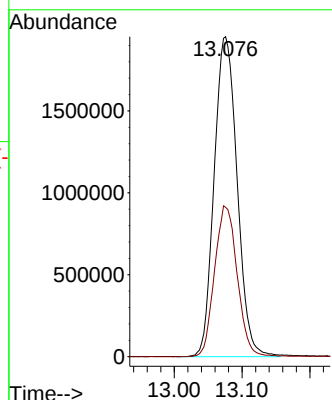
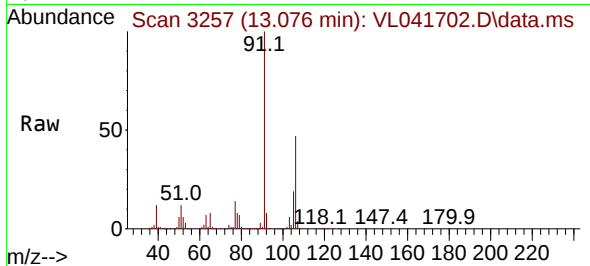




#60
o-Xylene
Concen: 16.822 ppbv
RT: 13.076 min Scan# 31
Delta R.T. 0.019 min
Lab File: VL041702.D
Acq: 20 Nov 2024 16:34

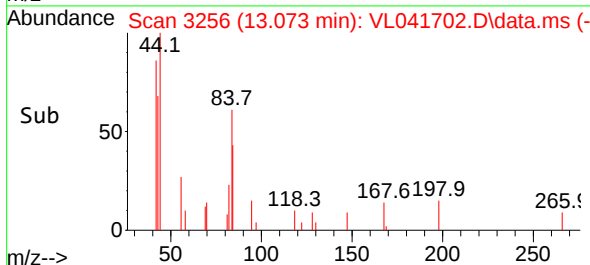
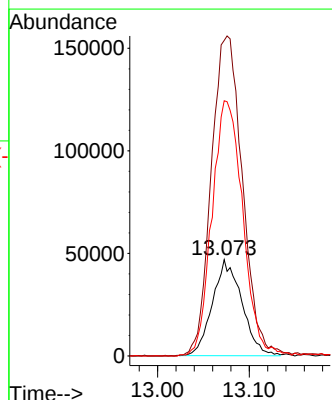
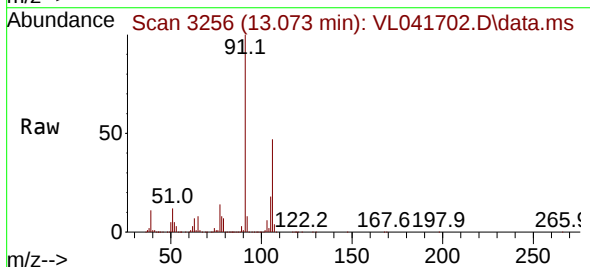
Instrument :
MSVOA_L
ClientSampleId :
E070-1100

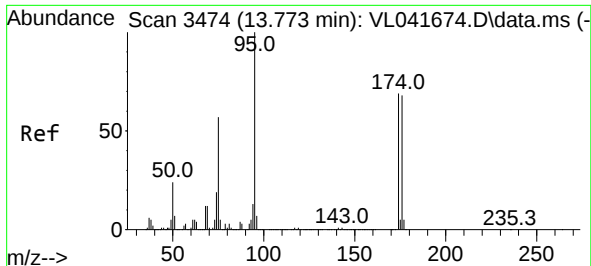
Tgt Ion: 91 Resp: 4596380
Ion Ratio Lower Upper
91 100
106 46.8 23.2 69.6



#61
Styrene
Concen: 0.926 ppbv
RT: 13.073 min Scan# 3256
Delta R.T. 0.177 min
Lab File: VL041702.D
Acq: 20 Nov 2024 16:34

Tgt Ion:104 Resp: 104434
Ion Ratio Lower Upper
104 100
78 355.8 39.8 59.8#
103 279.9 37.4 56.0#

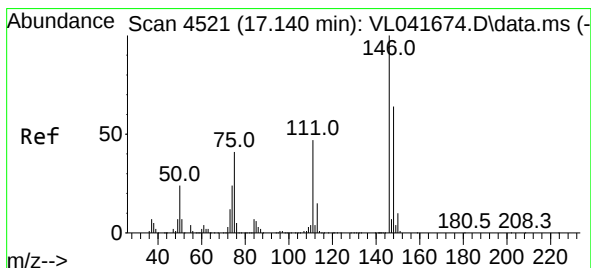
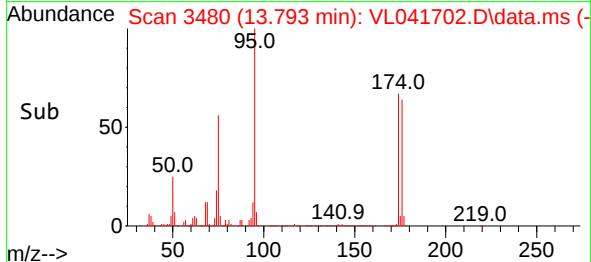
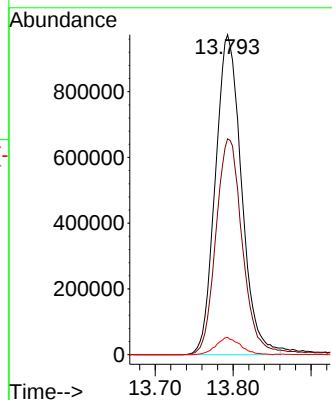
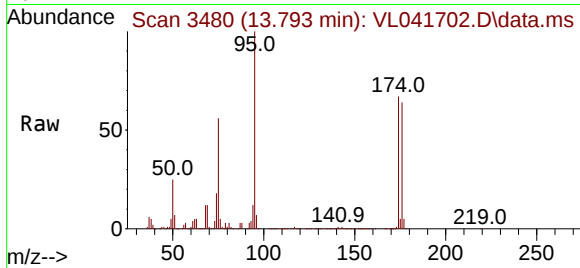




#68
1-Bromo-4-Fluorobenzene
Concen: 10.538 ppbv
RT: 13.793 min Scan# 3474
Delta R.T. 0.019 min
Lab File: VL041702.D
Acq: 20 Nov 2024 16:34

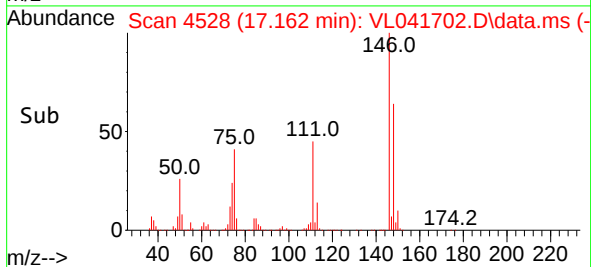
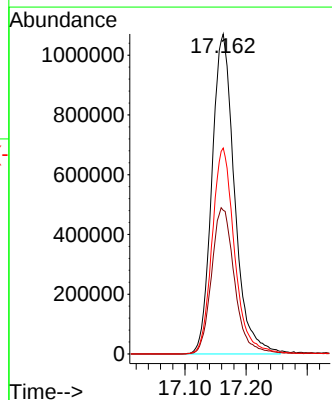
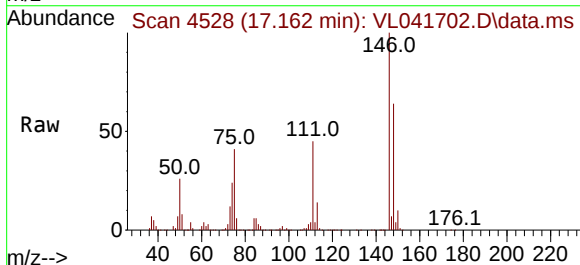
Instrument :
MSVOA_L
ClientSampleId :
E070-1100

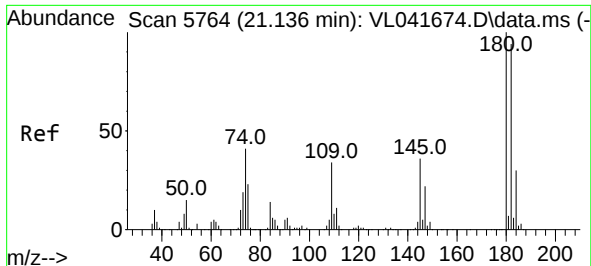
Tgt Ion: 95 Resp: 2266212
Ion Ratio Lower Upper
95 100
174 69.9 55.6 83.4
175 5.2 4.2 6.2



#77
1,2-Dichlorobenzene
Concen: 13.864 ppbv
RT: 17.162 min Scan# 4528
Delta R.T. 0.023 min
Lab File: VL041702.D
Acq: 20 Nov 2024 16:34

Tgt Ion:146 Resp: 2754177
Ion Ratio Lower Upper
146 100
111 46.6 23.4 70.3
148 64.0 32.1 96.5





#81

1,2,4-Trichlorobenzene

Concen: 9.693 ppbv

RT: 21.165 min Scan# 51

Delta R.T. 0.029 min

Lab File: VL041702.D

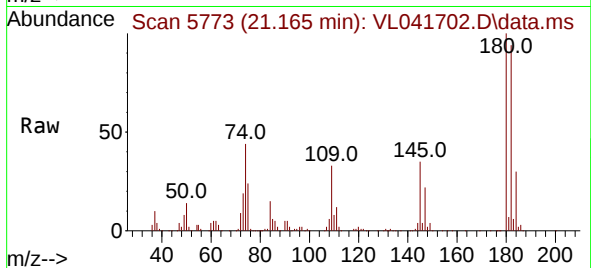
Acq: 20 Nov 2024 16:34

Instrument :

MSVOA_L

ClientSampleId :

E070-1100



Tgt Ion:180 Resp: 1218241

Ion Ratio Lower Upper

180 100

182 102.1 78.2 117.2

184 32.8 25.0 37.4

