

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081822\
 Data File : VL039576.D
 Acq On : 19 Aug 2022 9:25
 Operator : SY/AP
 Sample : N3986-01DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 20 00:55:32 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081722AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 17 12:06:24 2022
 QLast Update : Wed Aug 17 12:06:24 2022
 Response via : Initial Calibration

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

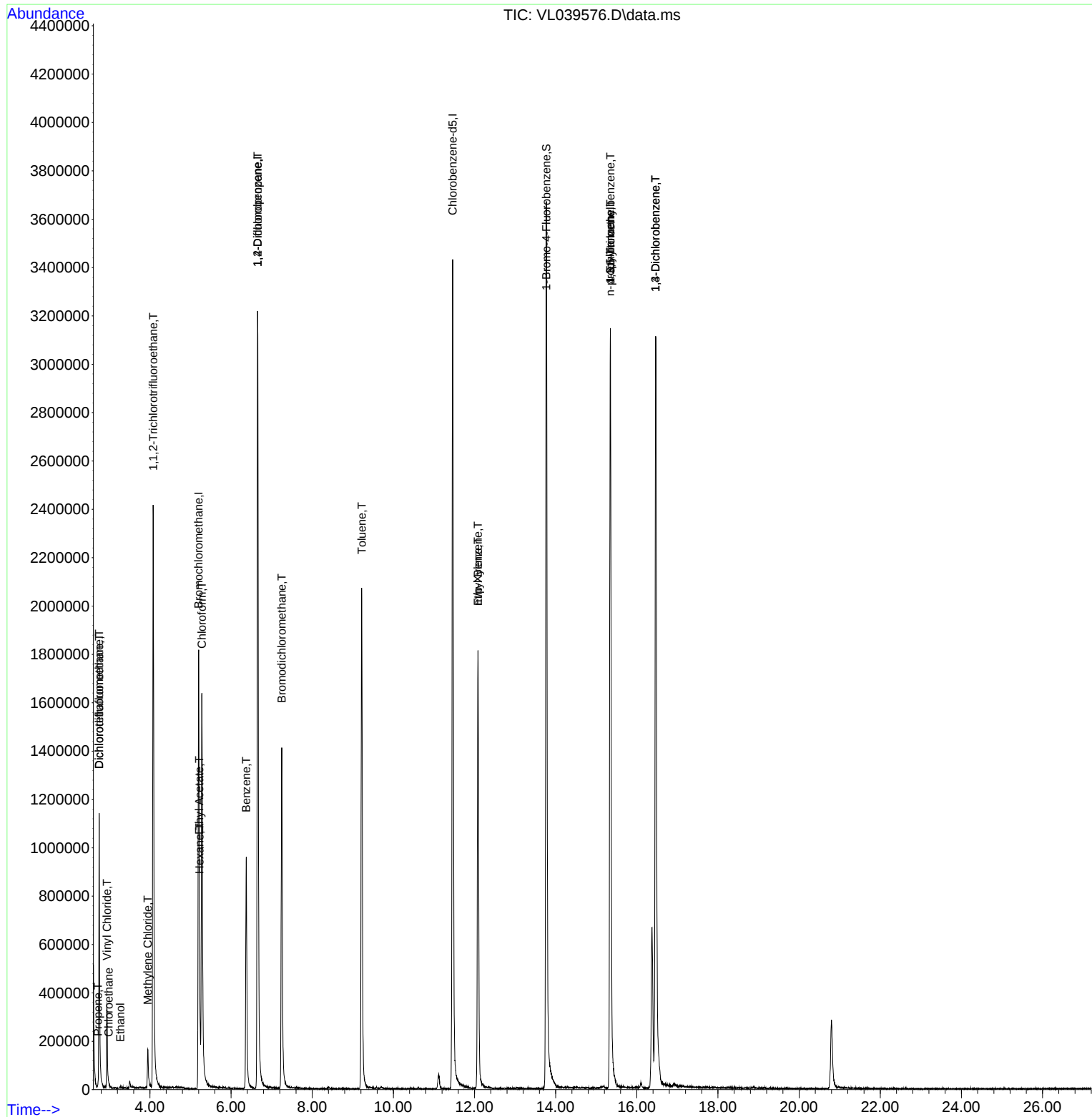
Internal Standards						
1) Bromochloromethane	5.198	49	921751	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2501507	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.462	117	2287855	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.770	95	1744253	10.127	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.748	85	875608	7.067	ppbv	99
5) Vinyl Chloride	2.941	62	307893	5.405	ppbv	94
7) Chloroethane	2.983	64	1308	0.065	ppbv #	43
8) Dichlorotetrafluoroethane	2.748	85	875608	6.581	ppbv #	14
9) Propene	2.723	41	5094	0.101	ppbv #	15
12) 1,1,2-Trichlorotrifluo...	4.083	101	946945	9.420	ppbv	98
13) Ethanol	3.269	45	2690	0.743	ppbv #	29
20) Methylene Chloride	3.948	84	51841	1.223	ppbv	96
25) Ethyl Acetate	5.218	43	31043	0.140	ppbv #	78
26) Hexane	5.221	57	41303	0.454	ppbv #	39
29) Chloroform	5.282	83	1179694	8.277	ppbv	98
36) Benzene	6.375	78	819985	4.301	ppbv	100
39) 1,2-Dichloropropane	6.655	63	611455	8.557	ppbv #	24
42) Bromodichloromethane	7.250	83	988258	6.827	ppbv	95
53) Toluene	9.221	91	1679704	7.864	ppbv	100
58) Ethyl Benzene	12.086	91	1621188	6.119	ppbv	100
59) m/p-Xylene	12.086	91	1621188	6.806	ppbv #	100
64) n-propylbenzene	15.346	120	1168957	12.971	ppbv #	1
72) 4-Ethyltoluene	15.349	105	2578219	9.609	ppbv #	100
73) 1,3,5-Trimethylbenzene	15.349	105	2578219	10.521	ppbv	95
75) 1,3-Dichlorobenzene	16.465	146	1759285	10.599	ppbv	98
76) 1,4-Dichlorobenzene	16.465	146	1759285	10.584	ppbv	97

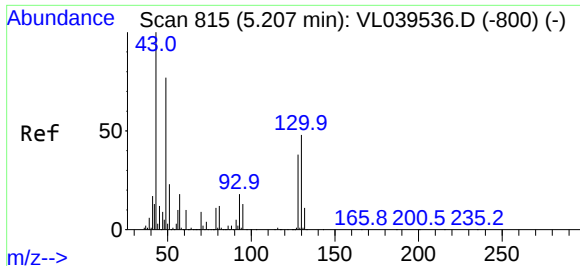
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 20 00:55:32 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081722AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 17 12:06:24 2022
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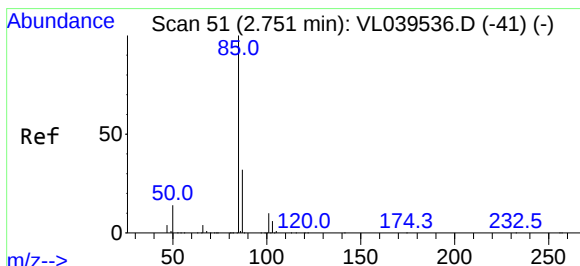
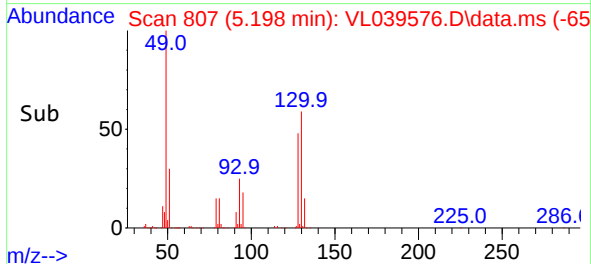
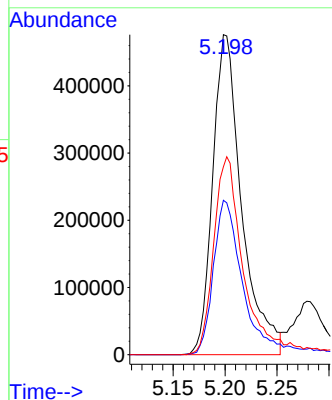
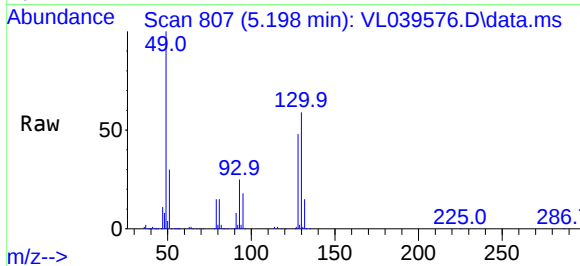




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.198 min Scan# 80
 Delta R.T. -0.009 min
 Lab File: VL039576.D
 Acq: 19 Aug 2022 9:25

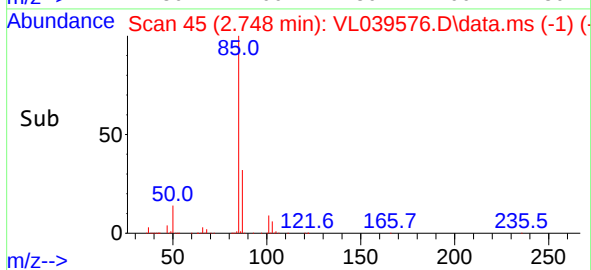
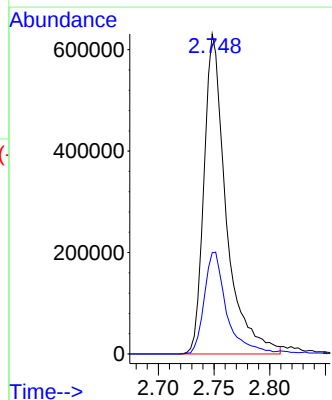
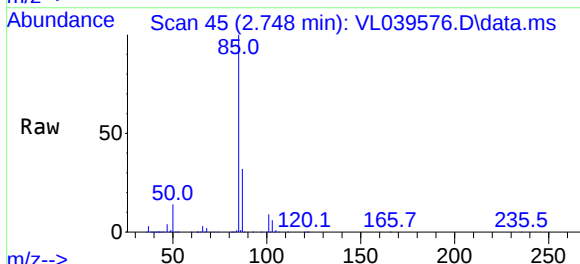
Instrument :
 MSVOA_L
 ClientSampleId :

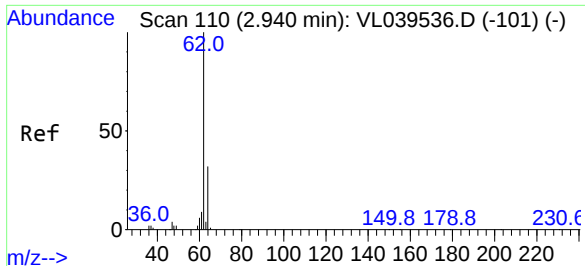
Tgt Ion: 49 Resp: 921751
 Ion Ratio Lower Upper
 49 100
 128 52.1 25.7 77.0
 130 66.2 31.6 95.0



#2
 Dichlorodifluoromethane
 Concen: 7.067 ppbv
 RT: 2.748 min Scan# 45
 Delta R.T. -0.002 min
 Lab File: VL039576.D
 Acq: 19 Aug 2022 9:25

Tgt Ion: 85 Resp: 875608
 Ion Ratio Lower Upper
 85 100
 87 31.7 25.9 38.9

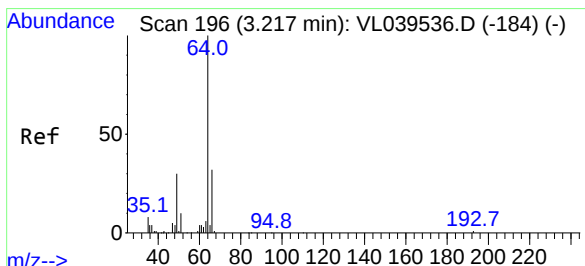
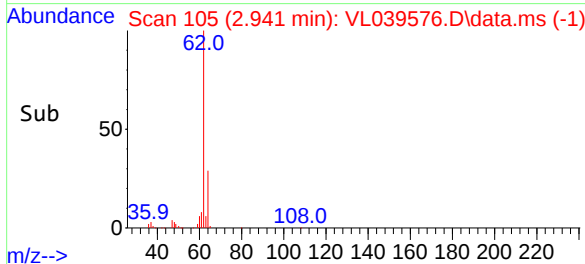
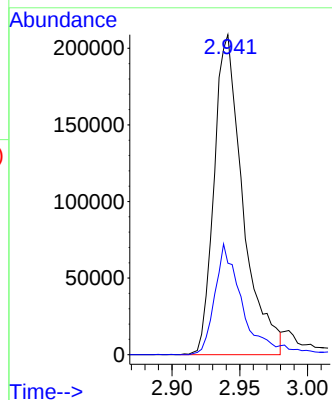
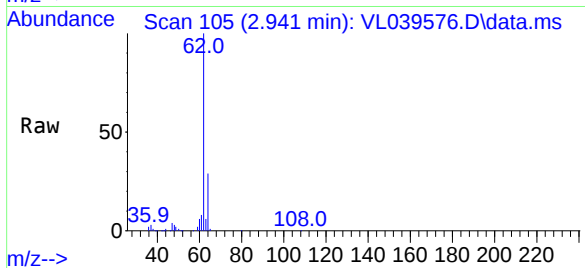




#5
 Vinyl Chloride
 Concen: 5.405 ppbv
 RT: 2.941 min Scan# 110
 Delta R.T. 0.001 min
 Lab File: VL039576.D
 Acq: 19 Aug 2022 9:25

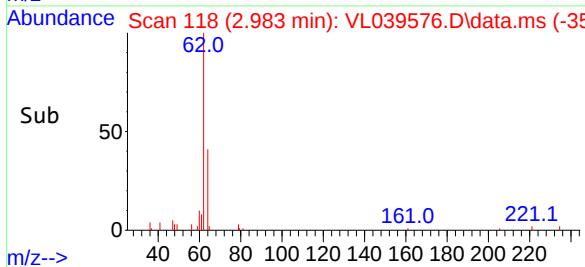
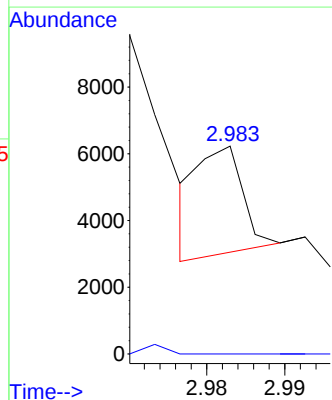
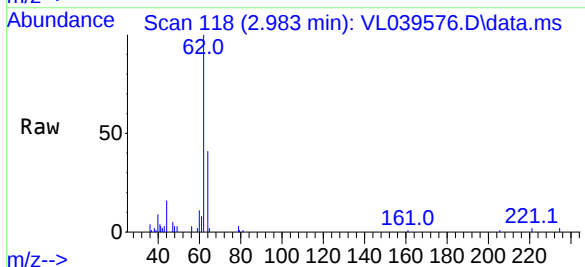
Instrument :
 MSVOA_L
 ClientSampleId :

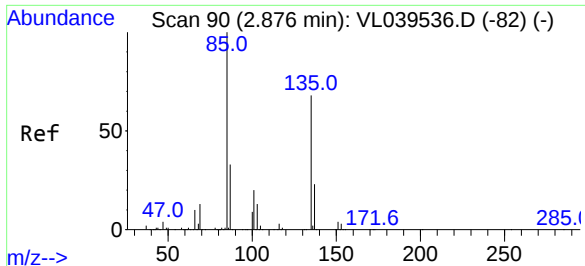
Tgt Ion: 62 Resp: 307893
 Ion Ratio Lower Upper
 62 100
 64 28.6 25.5 38.3



#7
 Chloroethane
 Concen: 0.065 ppbv
 RT: 2.983 min Scan# 118
 Delta R.T. -0.234 min
 Lab File: VL039576.D
 Acq: 19 Aug 2022 9:25

Tgt Ion: 64 Resp: 1308
 Ion Ratio Lower Upper
 64 100
 66 0.0 25.6 38.4#

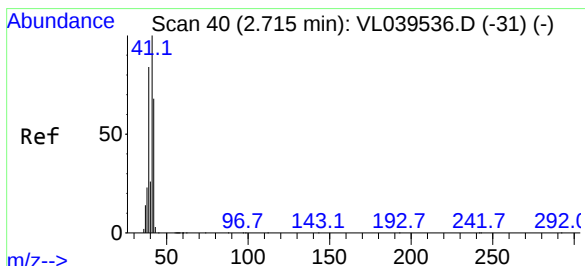
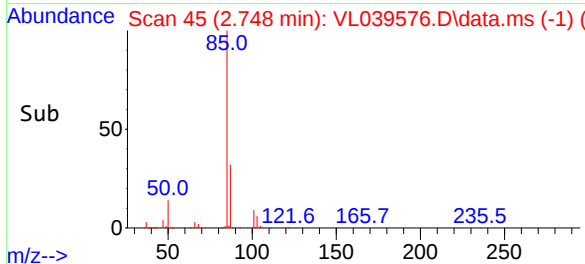
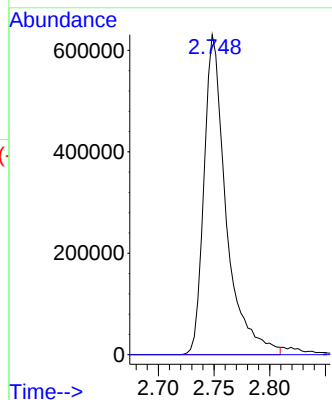
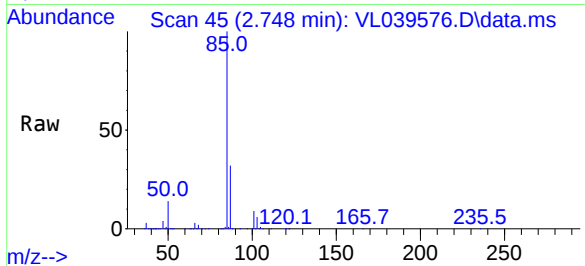




#8
Dichlorotetrafluoroethane
Concen: 6.581 ppbv
RT: 2.748 min Scan# 41
Delta R.T. -0.128 min
Lab File: VL039576.D
Acq: 19 Aug 2022 9:25

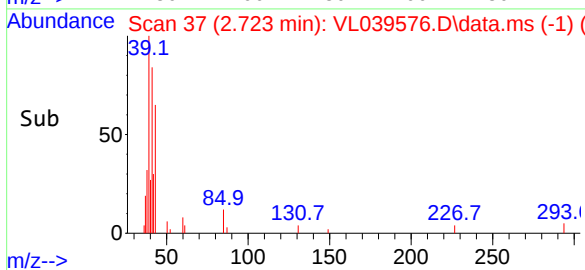
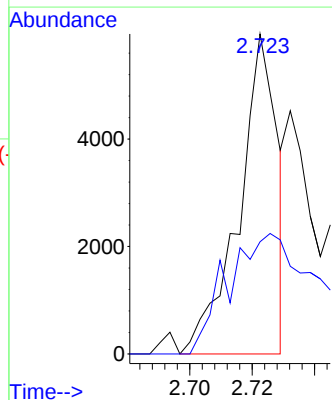
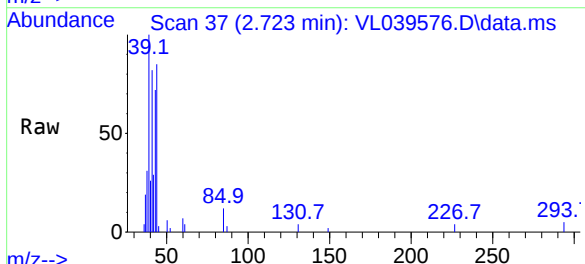
Instrument :
MSVOA_L
ClientSampleId :

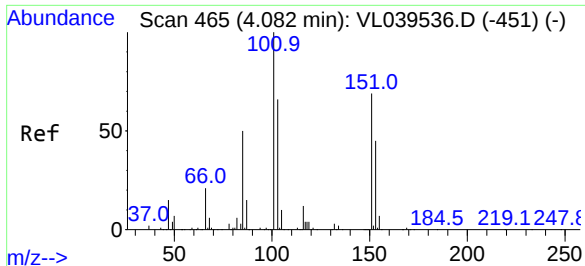
Tgt Ion: 85 Resp: 875608
Ion Ratio Lower Upper
85 100
135 0.0 56.3 84.5#



#9
Propene
Concen: 0.101 ppbv
RT: 2.723 min Scan# 37
Delta R.T. 0.007 min
Lab File: VL039576.D
Acq: 19 Aug 2022 9:25

Tgt Ion: 41 Resp: 5094
Ion Ratio Lower Upper
41 100
42 0.0 55.4 83.0#

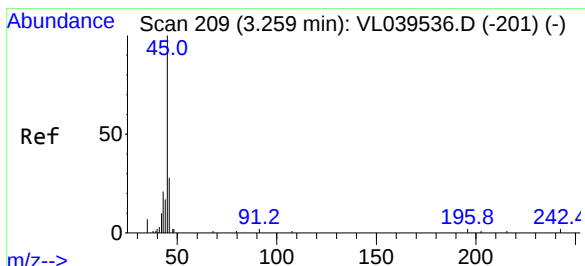
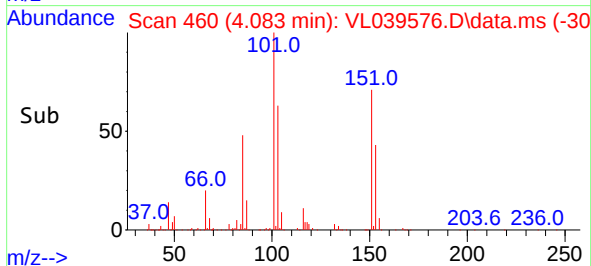
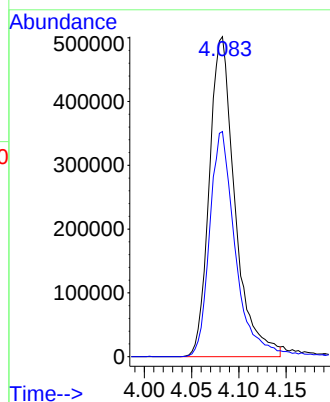
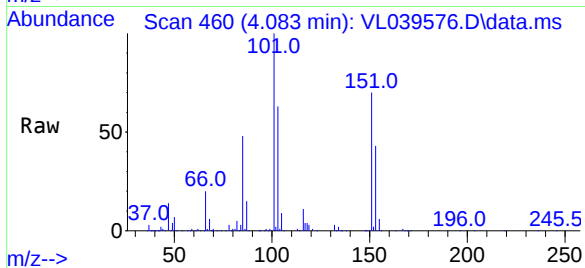




#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.420 ppbv
RT: 4.083 min Scan# 40
Delta R.T. 0.001 min
Lab File: VL039576.D
Acq: 19 Aug 2022 9:25

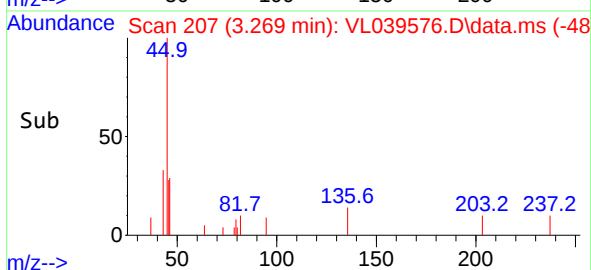
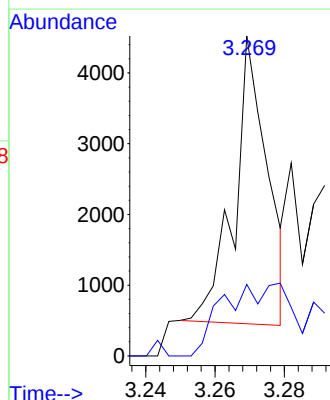
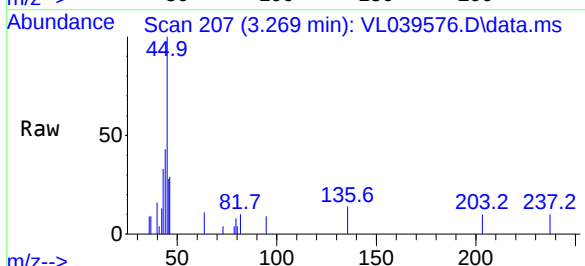
Instrument :
MSVOA_L
ClientSampleId :

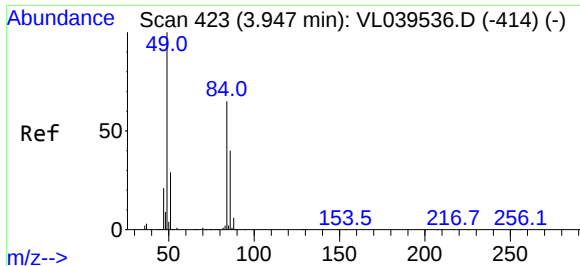
Tgt Ion:101 Resp: 946945
Ion Ratio Lower Upper
101 100
151 71.8 58.6 87.8



#13
Ethanol
Concen: 0.743 ppbv
RT: 3.269 min Scan# 207
Delta R.T. 0.010 min
Lab File: VL039576.D
Acq: 19 Aug 2022 9:25

Tgt Ion: 45 Resp: 2690
Ion Ratio Lower Upper
45 100
46 0.0 19.3 77.1#





#20

Methylene Chloride

Concen: 1.223 ppbv

RT: 3.948 min Scan# 418

Delta R.T. 0.001 min

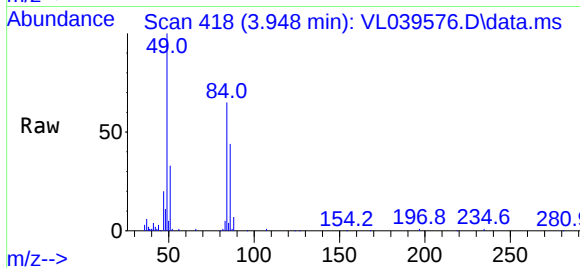
Lab File: VL039576.D

Acq: 19 Aug 2022 9:25

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 84 Resp: 51841

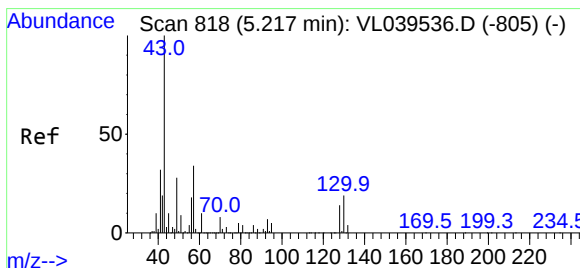
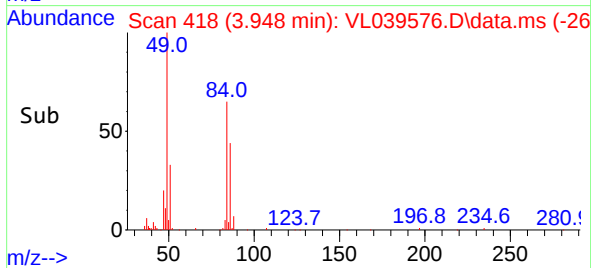
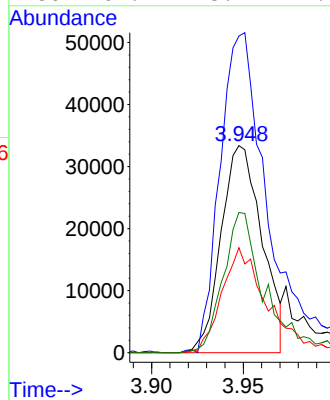
Ion	Ratio	Lower	Upper
84	100		
49	153.0	122.2	183.4
51	50.7	35.8	53.6
86	67.7	48.4	72.6

84 100

49 153.0 122.2 183.4

51 50.7 35.8 53.6

86 67.7 48.4 72.6



#25

Ethyl Acetate

Concen: 0.140 ppbv

RT: 5.218 min Scan# 813

Delta R.T. 0.001 min

Lab File: VL039576.D

Acq: 19 Aug 2022 9:25

Tgt Ion: 43 Resp: 31043

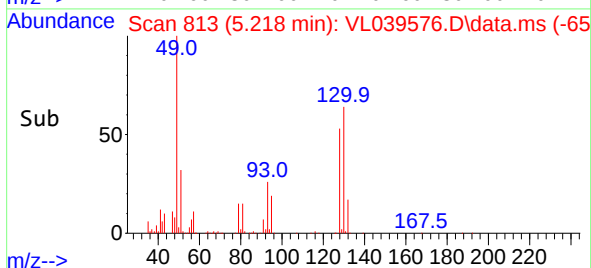
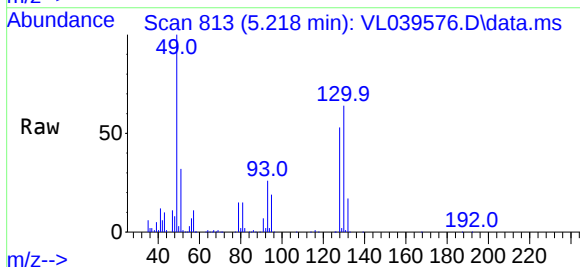
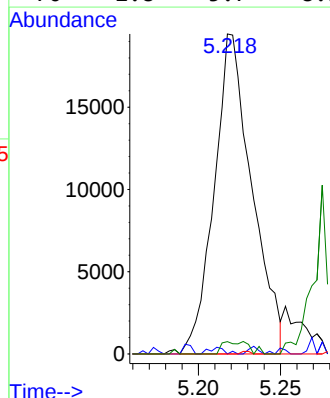
Ion	Ratio	Lower	Upper
43	100		
45	1.4	8.2	12.4#
61	0.2	8.6	12.8#
70	2.8	5.7	8.5#

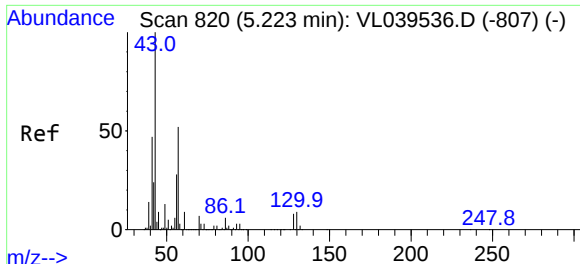
43 100

45 1.4 8.2 12.4#

61 0.2 8.6 12.8#

70 2.8 5.7 8.5#

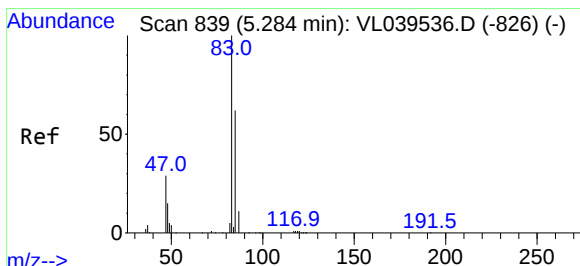
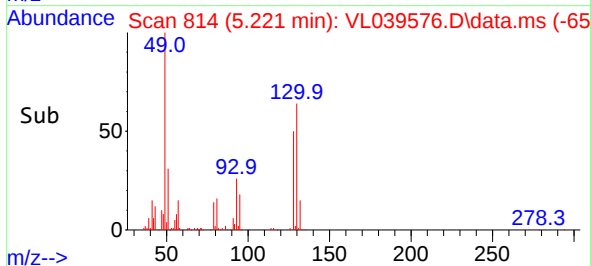
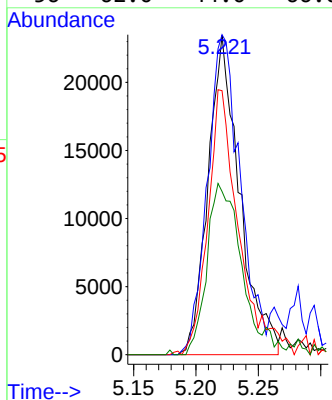
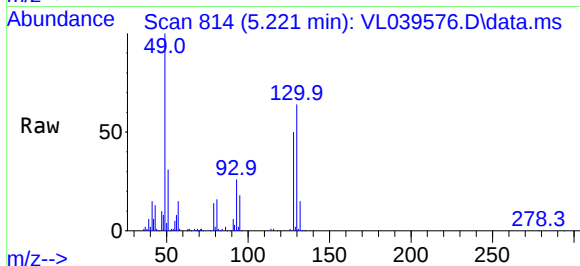




#26
Hexane
Concen: 0.454 ppbv
RT: 5.221 min Scan# 814
Delta R.T. -0.002 min
Lab File: VL039576.D
Acq: 19 Aug 2022 9:25

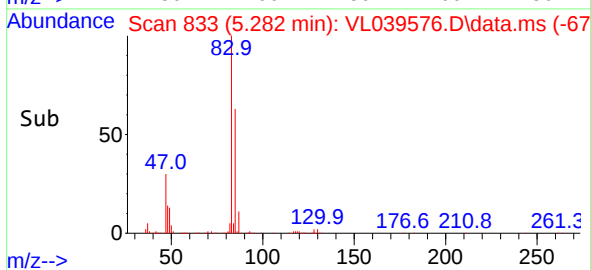
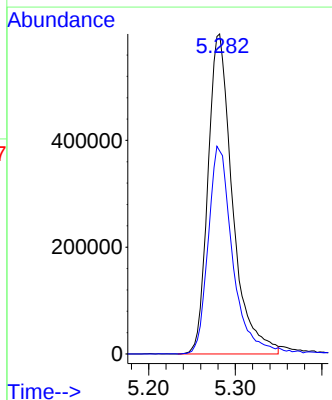
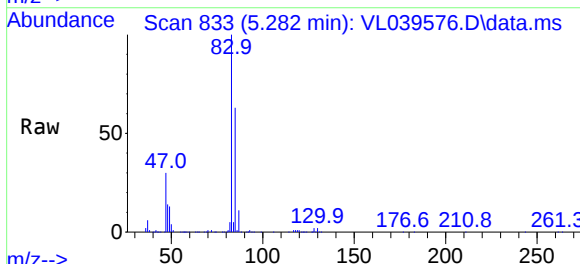
Instrument :
MSVOA_L
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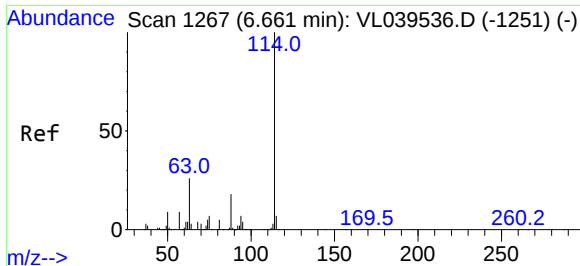
Tgt Ion: 57 Resp: 41303
Ion Ratio Lower Upper
57 100
41 103.7 79.4 119.2
43 84.8 199.7 299.5#
56 62.0 44.0 66.0



#29
Chloroform
Concen: 8.277 ppbv
RT: 5.282 min Scan# 833
Delta R.T. -0.002 min
Lab File: VL039576.D
Acq: 19 Aug 2022 9:25

Tgt Ion: 83 Resp: 1179694
Ion Ratio Lower Upper
83 100
85 63.5 49.8 74.8

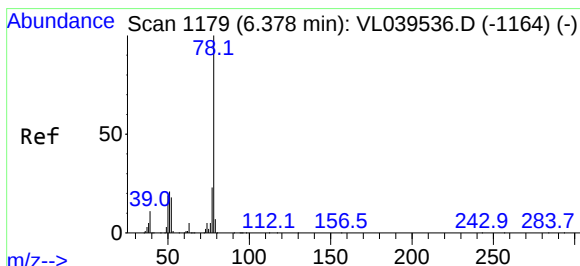
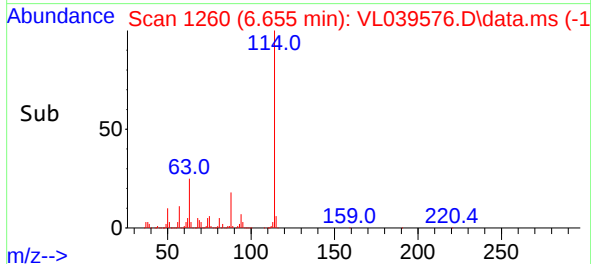
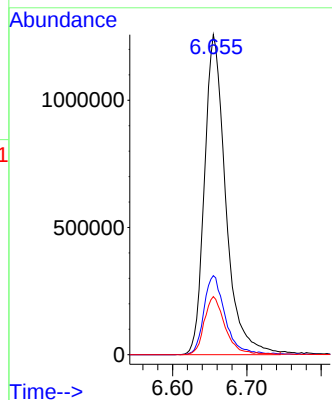
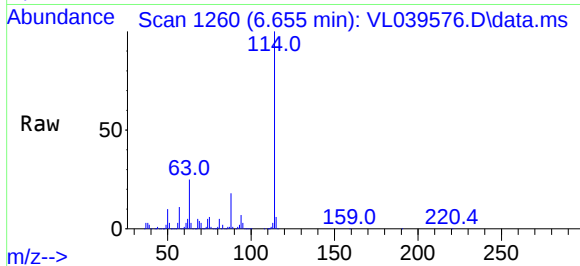




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.655 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VL039576.D
Acq: 19 Aug 2022 9:25

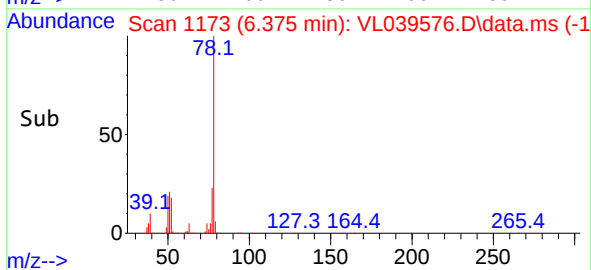
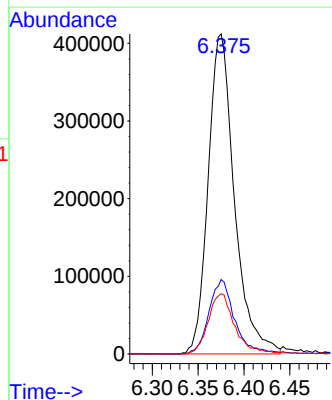
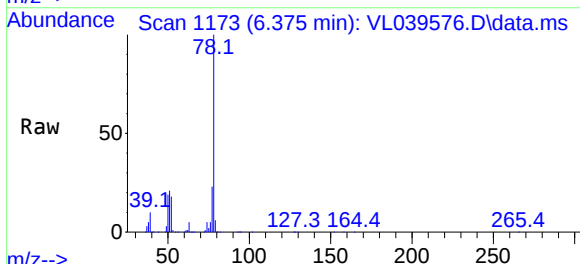
Instrument :
MSVOA_L
ClientSampleId :

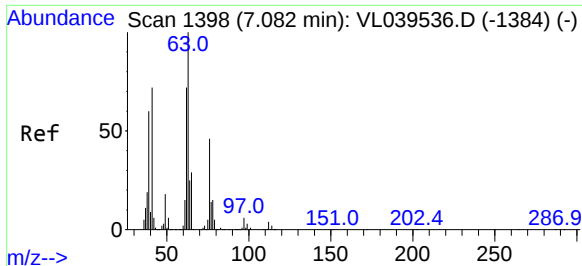
Tgt Ion:114 Resp: 2501507
Ion Ratio Lower Upper
114 100
63 25.2 20.6 31.0
88 18.0 14.6 22.0



#36
Benzene
Concen: 4.301 ppbv
RT: 6.375 min Scan# 1173
Delta R.T. -0.002 min
Lab File: VL039576.D
Acq: 19 Aug 2022 9:25

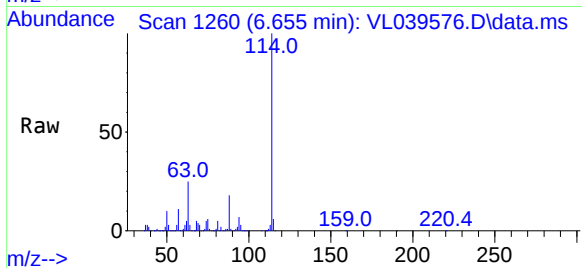
Tgt Ion: 78 Resp: 819985
Ion Ratio Lower Upper
78 100
77 23.2 18.6 27.8
50 18.8 15.0 22.4



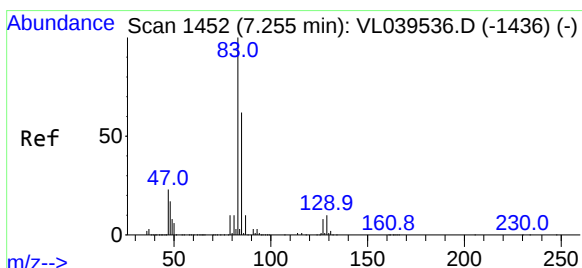
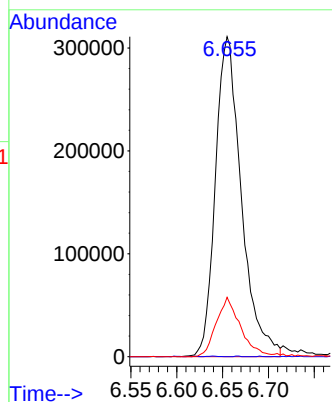
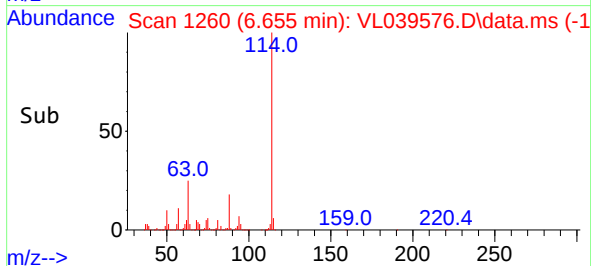


#39
1,2-Dichloropropane
Concen: 8.557 ppbv
RT: 6.655 min Scan# 11
Delta R.T. -0.427 min
Lab File: VL039576.D
Acq: 19 Aug 2022 9:25

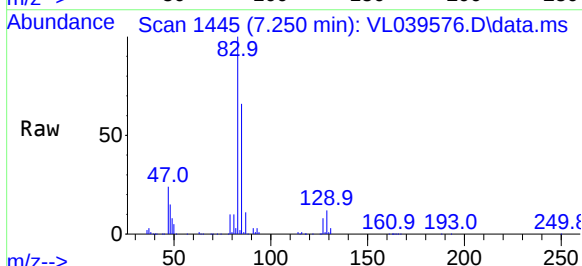
Instrument :
MSVOA_L
ClientSampleId :



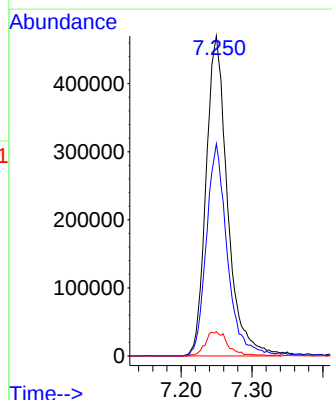
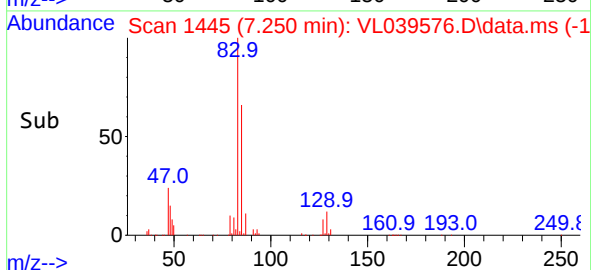
Tgt Ion: 63 Resp: 611455
Ion Ratio Lower Upper
63 100
41 0.0 58.0 87.0#
62 18.6 57.8 86.8#

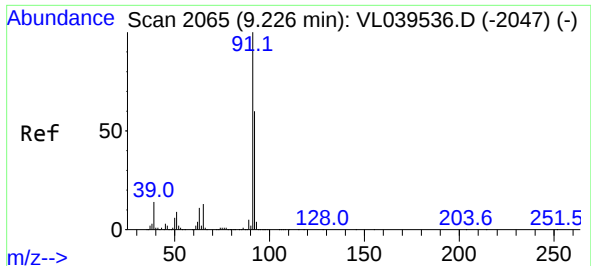


#42
Bromodichloromethane
Concen: 6.827 ppbv
RT: 7.250 min Scan# 1445
Delta R.T. -0.006 min
Lab File: VL039576.D
Acq: 19 Aug 2022 9:25



Tgt Ion: 83 Resp: 988258
Ion Ratio Lower Upper
83 100
85 66.3 49.9 74.9
127 7.6 6.7 10.1

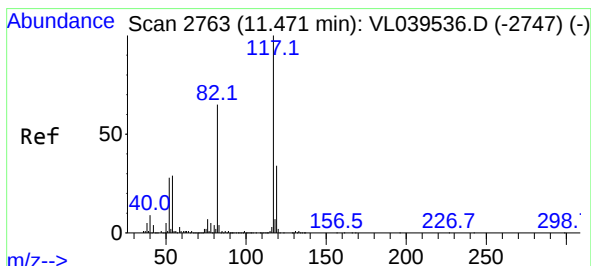
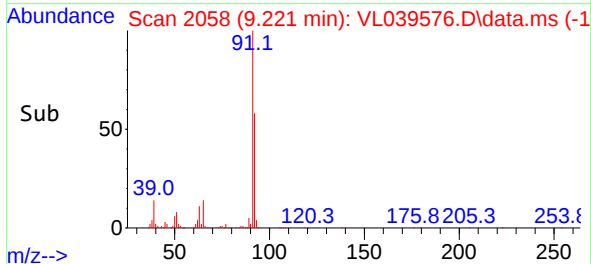
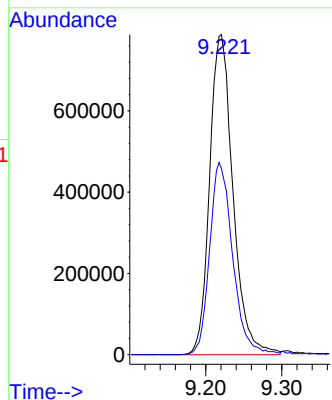
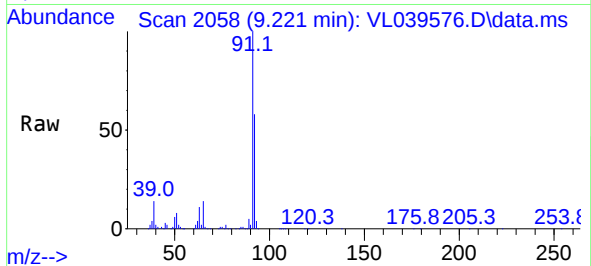




#53
Toluene
Concen: 7.864 ppbv
RT: 9.221 min Scan# 2065
Delta R.T. -0.006 min
Lab File: VL039576.D
Acq: 19 Aug 2022 9:25

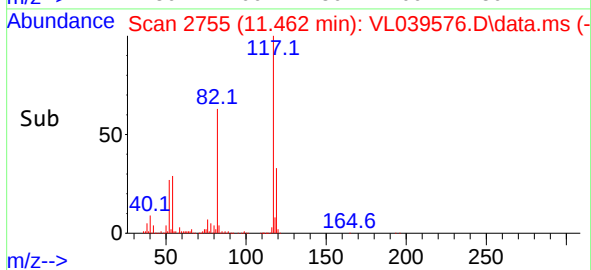
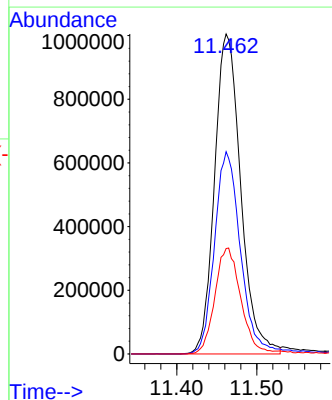
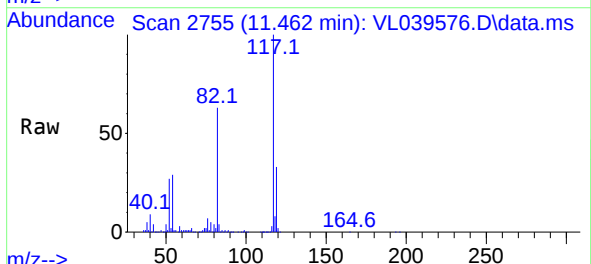
Instrument :
MSVOA_L
ClientSampleId :

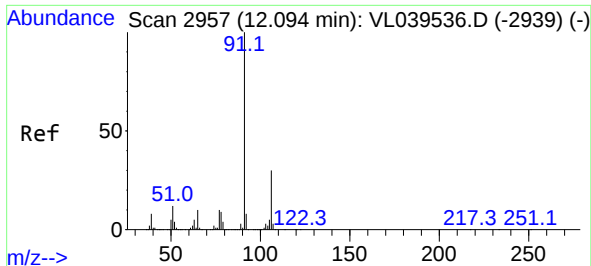
Tgt Ion: 91 Resp: 1679704
Ion Ratio Lower Upper
91 100
92 59.8 47.9 71.9



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.462 min Scan# 2755
Delta R.T. -0.009 min
Lab File: VL039576.D
Acq: 19 Aug 2022 9:25

Tgt Ion: 117 Resp: 2287855
Ion Ratio Lower Upper
117 100
82 64.2 49.1 73.7
119 33.5 25.9 38.9





#58

Ethyl Benzene

Concen: 6.119 ppbv

RT: 12.086 min Scan# 2949

Delta R.T. -0.009 min

Lab File: VL039576.D

Acq: 19 Aug 2022 9:25

Instrument :

MSVOA_L

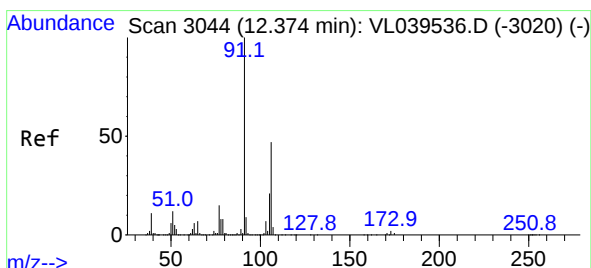
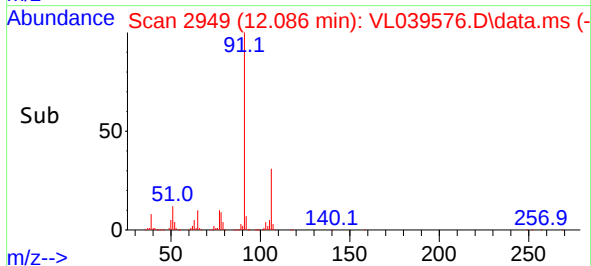
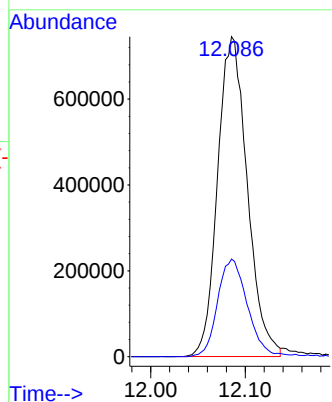
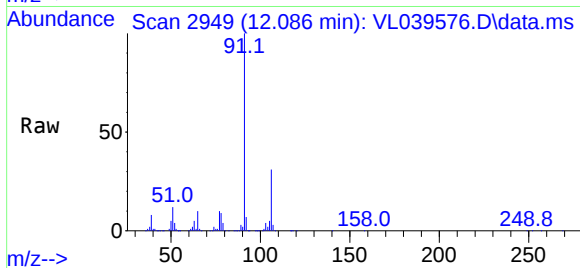
ClientSampleId :

Tgt Ion: 91 Resp: 1621188

Ion Ratio Lower Upper

91 100

106 30.5 24.2 36.4



#59

m/p-Xylene

Concen: 6.806 ppbv

RT: 12.086 min Scan# 2949

Delta R.T. -0.289 min

Lab File: VL039576.D

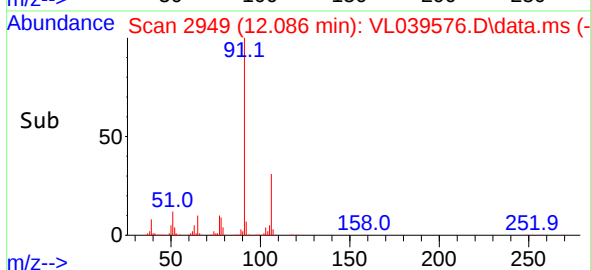
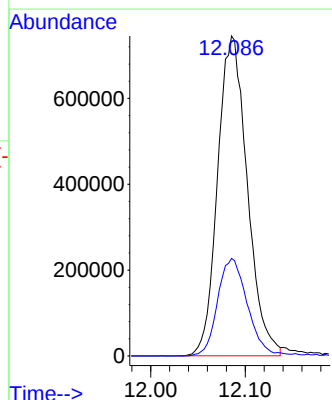
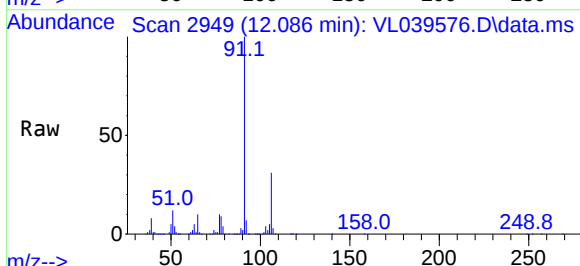
Acq: 19 Aug 2022 9:25

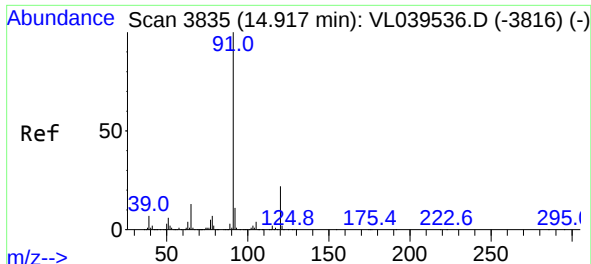
Tgt Ion: 91 Resp: 1621188

Ion Ratio Lower Upper

91 100

106 31.1 0.0 0.0#

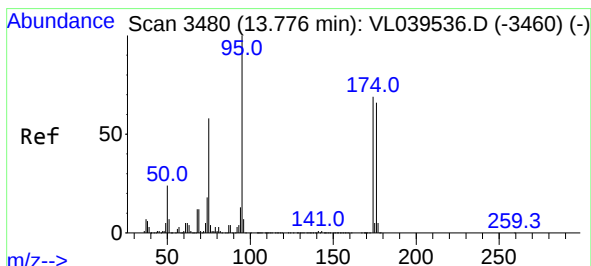
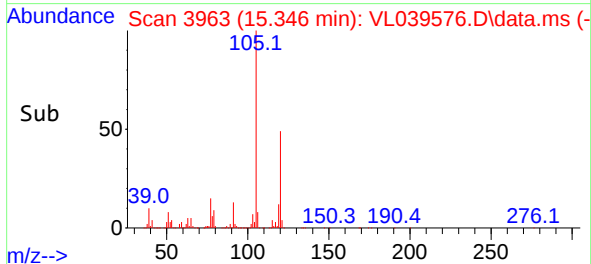
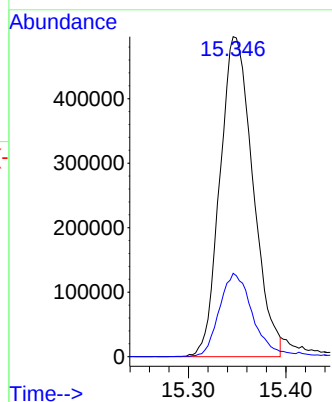
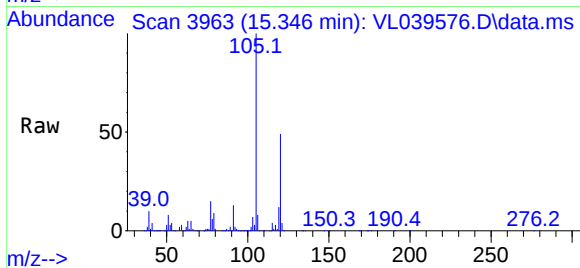




#64
 n-propylbenzene
 Concen: 12.971 ppbv
 RT: 15.346 min Scan# 3963
 Delta R.T. 0.428 min
 Lab File: VL039576.D
 Acq: 19 Aug 2022 9:25

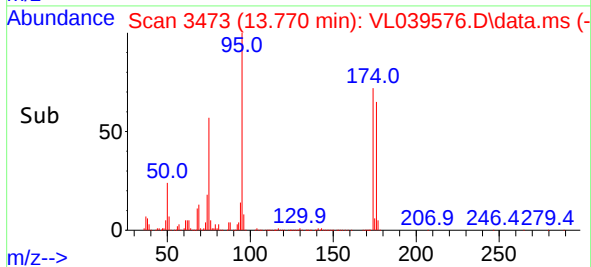
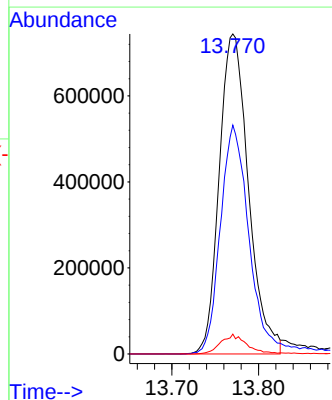
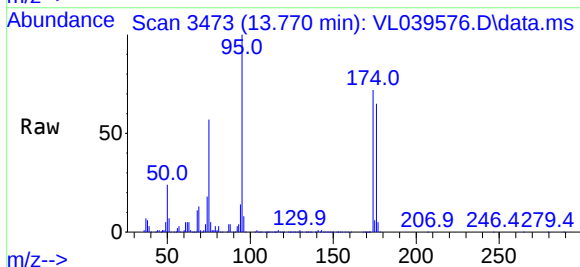
Instrument :
 MSVOA_L
 ClientSampleId :

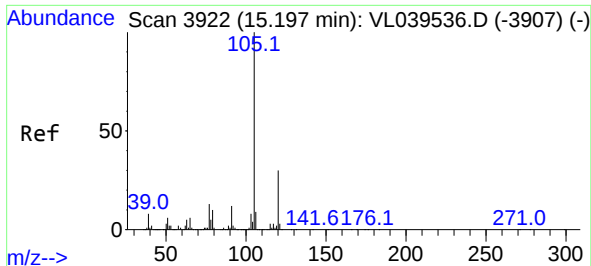
Tgt Ion:120 Resp: 1168957
 Ion Ratio Lower Upper
 120 100
 91 0.0 372.6 559.0#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.127 ppbv
 RT: 13.770 min Scan# 3473
 Delta R.T. -0.006 min
 Lab File: VL039576.D
 Acq: 19 Aug 2022 9:25

Tgt Ion: 95 Resp: 1744253
 Ion Ratio Lower Upper
 95 100
 174 73.2 56.3 84.5
 175 5.7 4.3 6.5

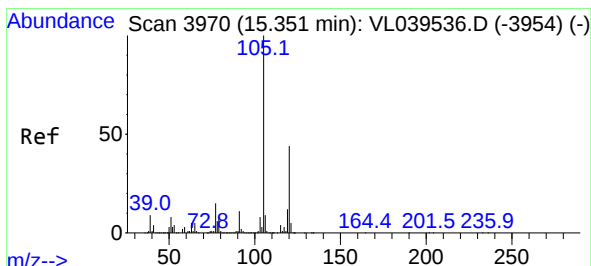
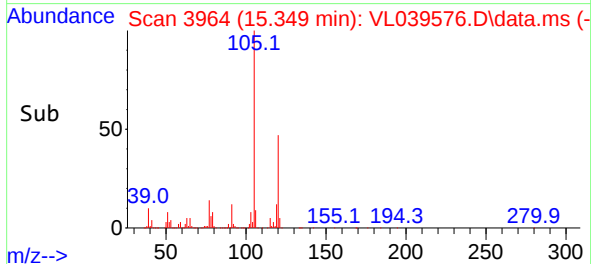
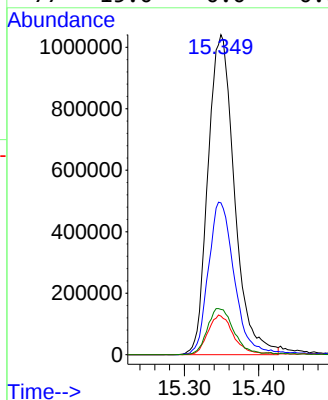
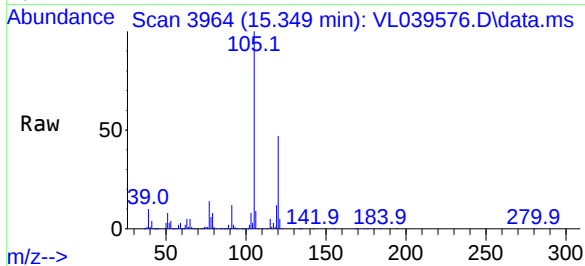




#72
4-Ethyltoluene
Concen: 9.609 ppbv
RT: 15.349 min Scan# 3964
Delta R.T. 0.152 min
Lab File: VL039576.D
Acq: 19 Aug 2022 9:25

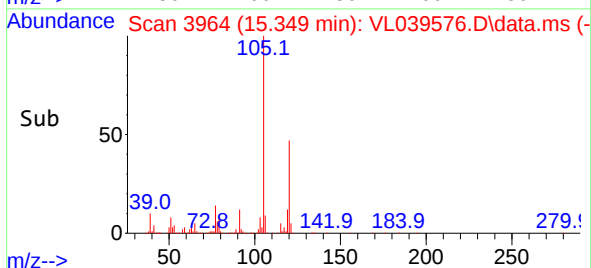
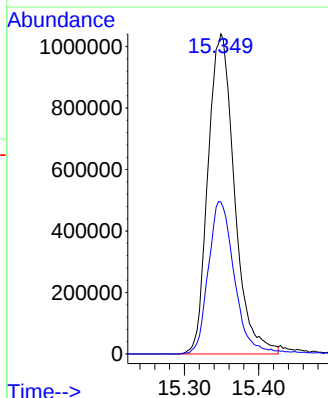
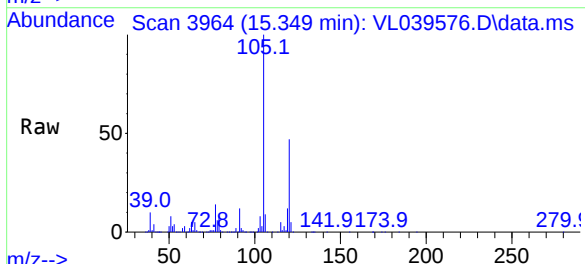
Instrument :
MSVOA_L
ClientSampleId :

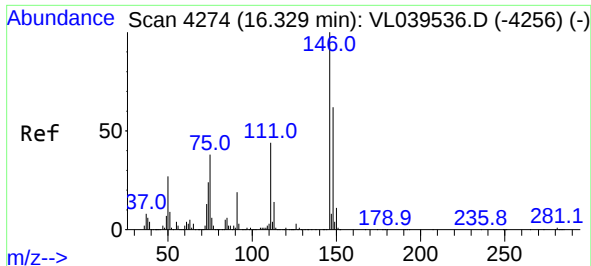
Tgt Ion:105 Resp: 2578219
Ion Ratio Lower Upper
105 100
120 47.5 0.0 0.0#
91 12.4 0.0 0.0#
77 15.0 0.0 0.0#



#73
1,3,5-Trimethylbenzene
Concen: 10.521 ppbv
RT: 15.349 min Scan# 3964
Delta R.T. -0.002 min
Lab File: VL039576.D
Acq: 19 Aug 2022 9:25

Tgt Ion:105 Resp: 2578219
Ion Ratio Lower Upper
105 100
120 47.5 35.4 53.2

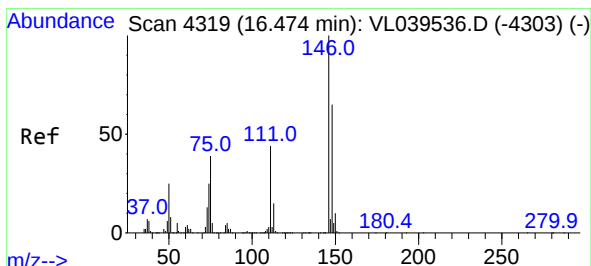
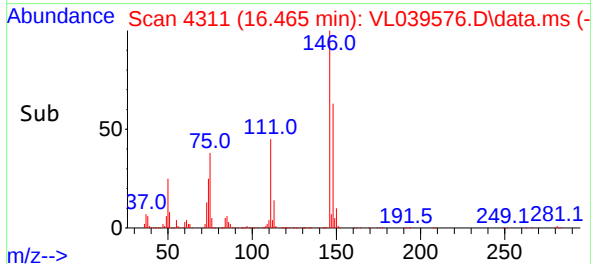
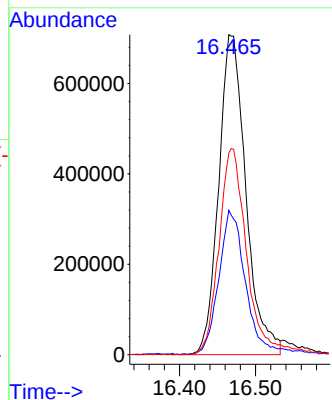
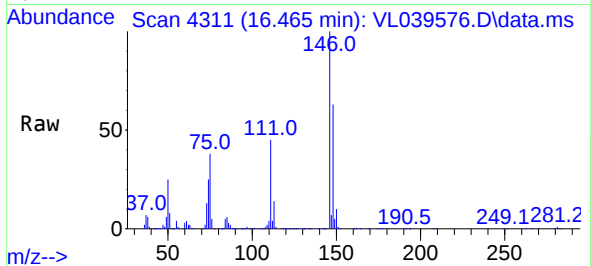




#75
1,3-Dichlorobenzene
Concen: 10.599 ppbv
RT: 16.465 min Scan# 411
Delta R.T. 0.136 min
Lab File: VL039576.D
Acq: 19 Aug 2022 9:25

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:146 Resp: 1759285
Ion Ratio Lower Upper
146 100
111 44.7 22.9 68.5
148 66.1 32.4 97.0



#76
1,4-Dichlorobenzene
Concen: 10.584 ppbv
RT: 16.465 min Scan# 4311
Delta R.T. -0.009 min
Lab File: VL039576.D
Acq: 19 Aug 2022 9:25

Tgt Ion:146 Resp: 1759285
Ion Ratio Lower Upper
146 100
111 44.7 22.3 66.8
148 66.1 31.5 94.5

