

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081822\
 Data File : VL039575.D
 Acq On : 19 Aug 2022 8:46
 Operator : SY/AP
 Sample : N3986-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 20 00:55:05 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)

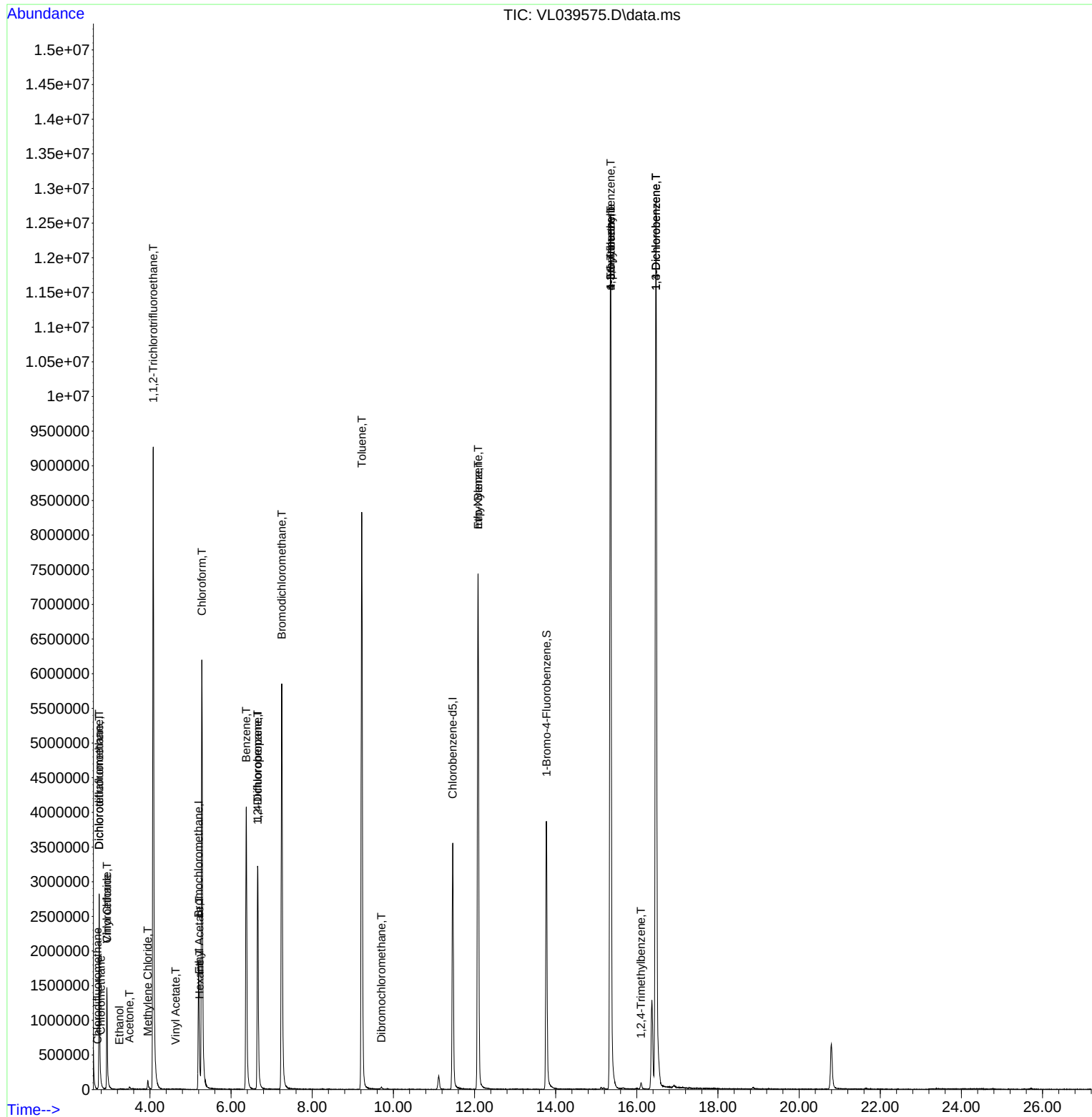
Internal Standards							
1) Bromochloromethane		5.201	49	902507	10.000	ppbv	0.00
33) 1,4-Difluorobenzene		6.654	114	2489946	10.000	ppbv	0.00
55) Chlorobenzene-d5		11.465	117	2321265	10.000	ppbv	0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		13.773	95	1853591	10.607	ppbv	0.00
Spiked Amount		10.000	Range	65 - 135	Recovery	=	106.100%
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane		2.748	85	2216907	18.275	ppbv	99
3) Chlorodifluoromethane		2.703	51	3940	0.036	ppbv	99
4) Chloromethane		2.793	50	6439	0.100	ppbv #	44
5) Vinyl Chloride		2.941	62	1319786	23.664	ppbv	98
7) Chloroethane		2.941	64	418991	21.102	ppbv #	43
8) Dichlorotetrafluoroethane		2.748	85	2216907	17.019	ppbv #	14
12) 1,1,2-Trichlorotrifluo...		4.082	101	3668488	37.270	ppbv	99
13) Ethanol		3.249	45	560	0.158	ppbv #	29
15) Acetone		3.497	43	30814	0.302	ppbv #	73
20) Methylene Chloride		3.947	84	45657	1.100	ppbv	90
23) Vinyl Acetate		4.632	43	1887	0.037	ppbv #	84
25) Ethyl Acetate		5.214	43	9428	0.043	ppbv #	78
26) Hexane		5.220	57	16317	0.183	ppbv #	34
29) Chloroform		5.282	83	4658349	33.383	ppbv	94
36) Benzene		6.375	78	3527682	18.589	ppbv	98
39) 1,2-Dichloropropane		6.658	63	613710	8.629	ppbv #	24
42) Bromodichloromethane		7.249	83	4171644	28.954	ppbv	96
48) Dibromochloromethane		9.703	129	9736	0.080	ppbv #	15
53) Toluene		9.220	91	6980247	32.830	ppbv	97
58) Ethyl Benzene		12.088	91	7002733	26.052	ppbv	97
59) m/p-Xylene		12.088	91	7002733	28.975	ppbv #	100
64) n-propylbenzene		15.355	120	4942760	54.057	ppbv #	1
72) 4-Ethyltoluene		15.355	105	10304829	37.852	ppbv #	100
73) 1,3,5-Trimethylbenzene		15.355	105	10304829	41.446	ppbv	89
74) 1,2,4-Trimethylbenzene		16.101	105	34565	0.125	ppbv #	66
75) 1,3-Dichlorobenzene		16.471	146	7379927	43.823	ppbv	99
76) 1,4-Dichlorobenzene		16.471	146	7379927	43.759	ppbv	97

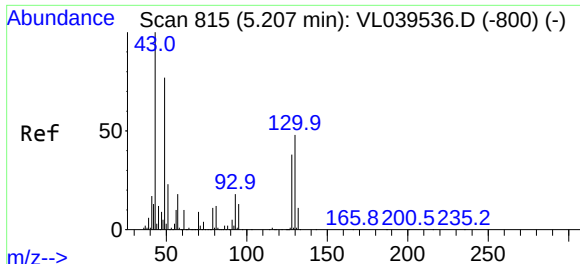
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081822\
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Instrument :
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ClientSampleId :

Quant Time: Aug 20 00:55:05 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
QLast Update : Wed Aug 17 12:06:24 2022
Response via : Initial Calibration

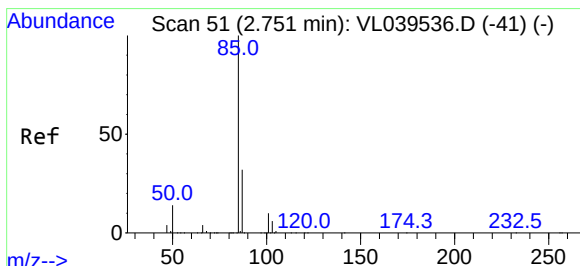
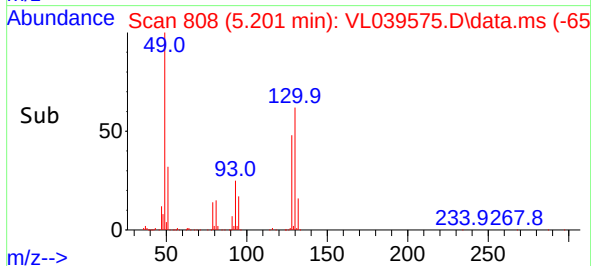
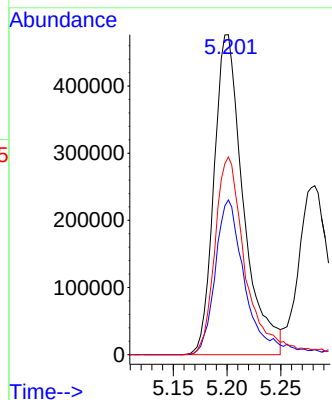
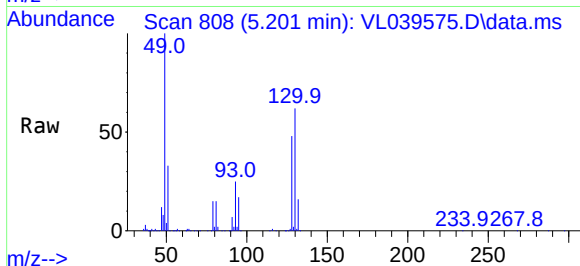




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.201 min Scan# 80
 Delta R.T. -0.006 min
 Lab File: VL039575.D
 Acq: 19 Aug 2022 8:46

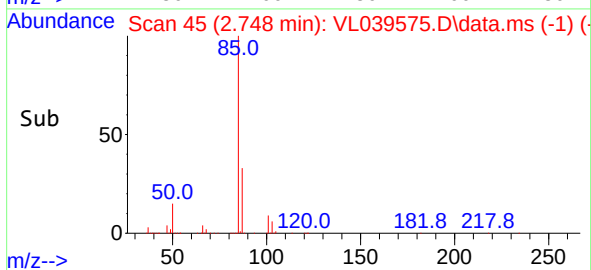
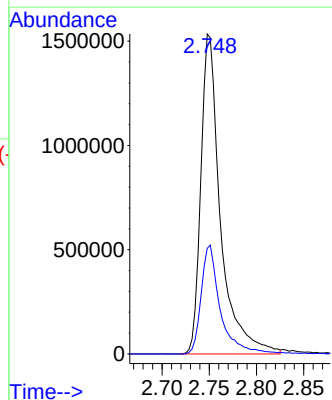
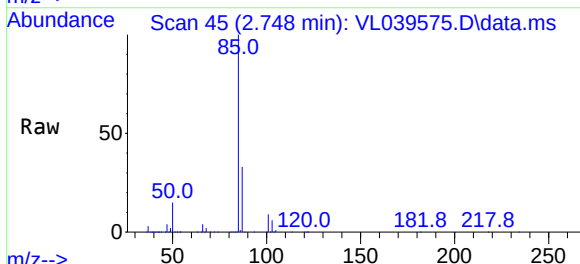
Instrument :
 MSVOA_L
 ClientSampleId :

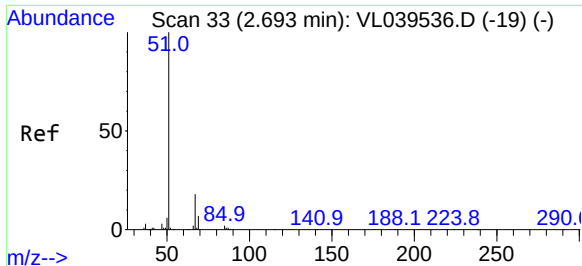
Tgt Ion: 49 Resp: 902507
 Ion Ratio Lower Upper
 49 100
 128 51.5 25.7 77.0
 130 66.6 31.6 95.0



#2
 Dichlorodifluoromethane
 Concen: 18.275 ppbv
 RT: 2.748 min Scan# 45
 Delta R.T. -0.003 min
 Lab File: VL039575.D
 Acq: 19 Aug 2022 8:46

Tgt Ion: 85 Resp: 2216907
 Ion Ratio Lower Upper
 85 100
 87 33.0 25.9 38.9

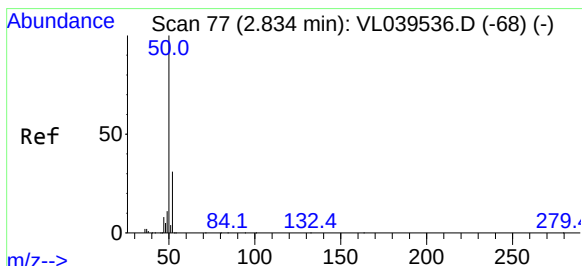
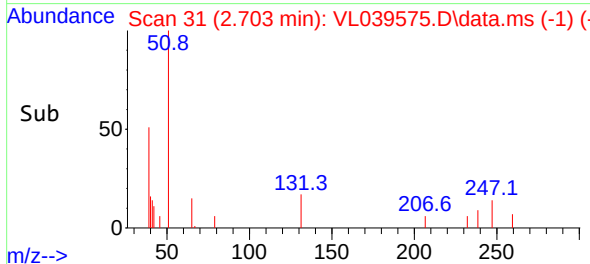
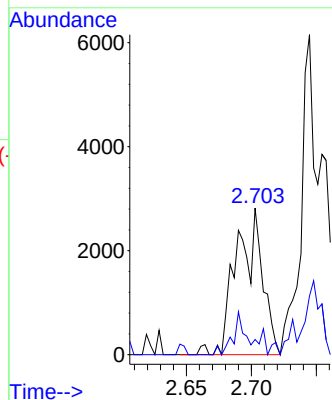
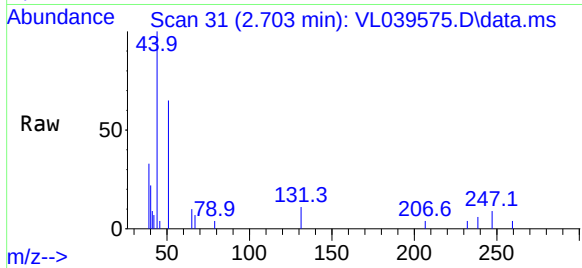




#3
Chlorodifluoromethane
Concen: 0.036 ppbv
RT: 2.703 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL039575.D
Acq: 19 Aug 2022 8:46

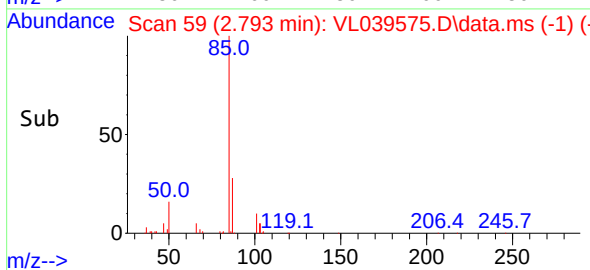
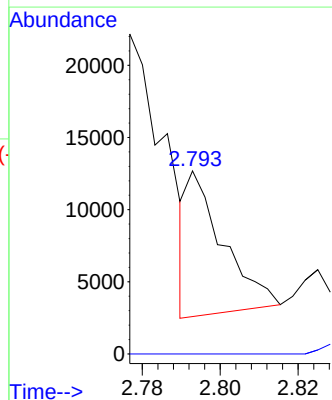
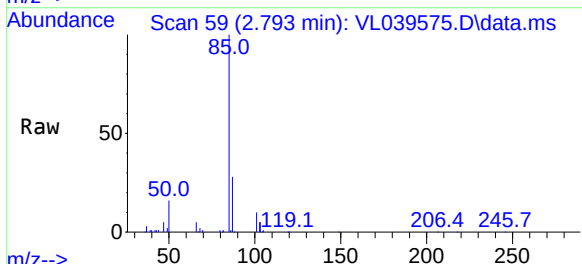
Instrument :
MSVOA_L
ClientSampleId :

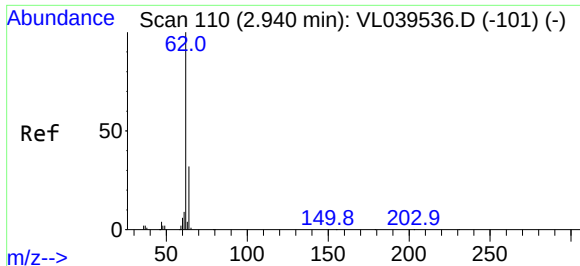
Tgt Ion: 51 Resp: 3940
Ion Ratio Lower Upper
51 100
67 17.8 14.7 22.1



#4
Chloromethane
Concen: 0.100 ppbv
RT: 2.793 min Scan# 59
Delta R.T. -0.041 min
Lab File: VL039575.D
Acq: 19 Aug 2022 8:46

Tgt Ion: 50 Resp: 6439
Ion Ratio Lower Upper
50 100
52 0.0 24.3 36.5#

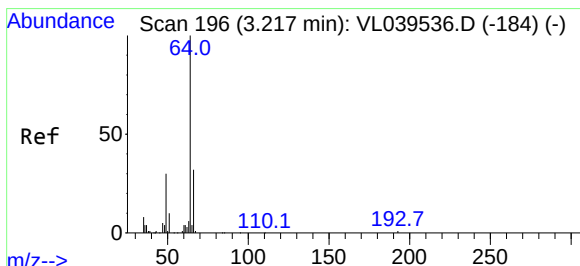
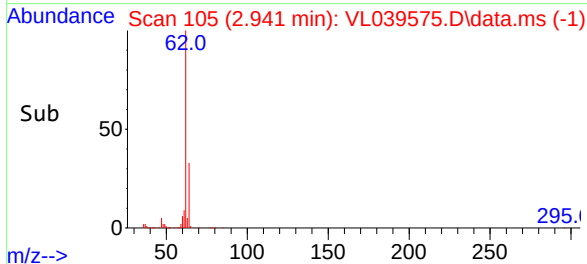
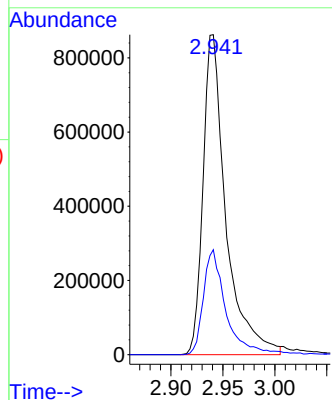
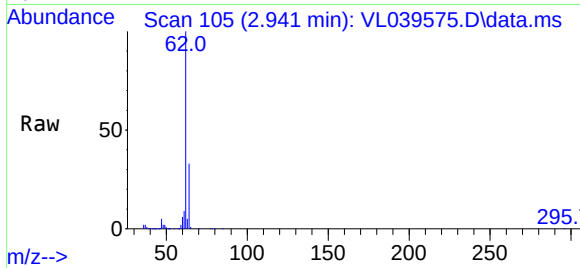




#5
 Vinyl Chloride
 Concen: 23.664 ppbv
 RT: 2.941 min Scan# 105
 Delta R.T. 0.000 min
 Lab File: VL039575.D
 Acq: 19 Aug 2022 8:46

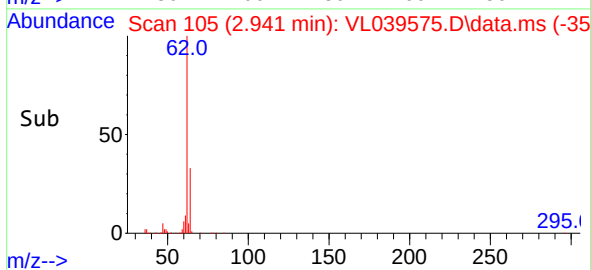
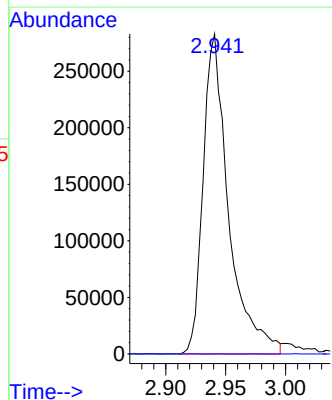
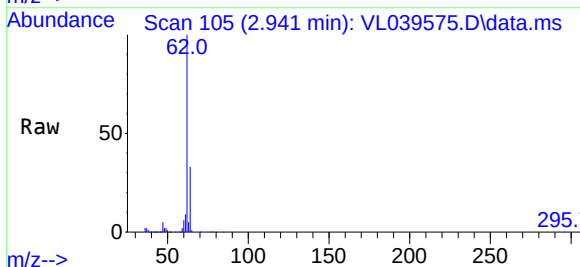
Instrument :
 MSVOA_L
 ClientSampleId :

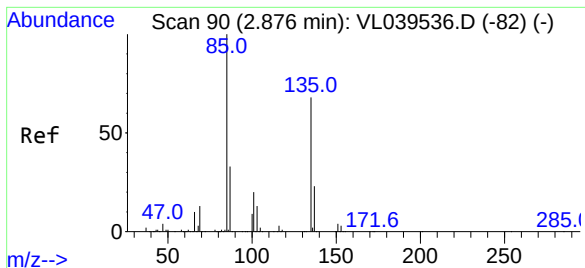
Tgt Ion: 62 Resp: 1319786
 Ion Ratio Lower Upper
 62 100
 64 32.8 25.5 38.3



#7
 Chloroethane
 Concen: 21.102 ppbv
 RT: 2.941 min Scan# 105
 Delta R.T. -0.276 min
 Lab File: VL039575.D
 Acq: 19 Aug 2022 8:46

Tgt Ion: 64 Resp: 418991
 Ion Ratio Lower Upper
 64 100
 66 0.0 25.6 38.4#

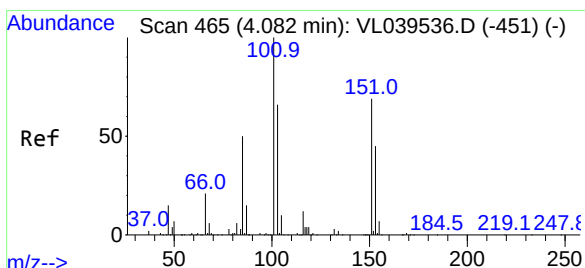
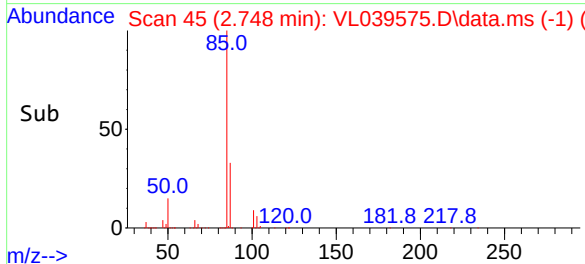
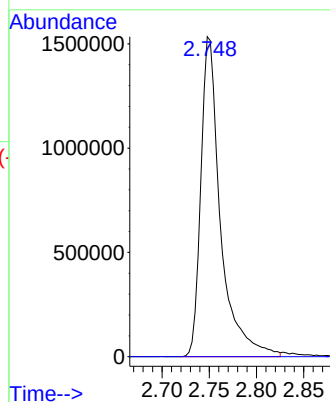
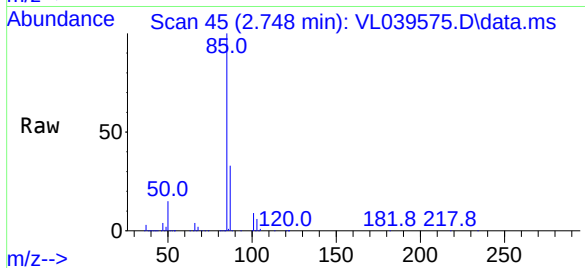




#8
 Dichlorotetrafluoroethane
 Concen: 17.019 ppbv
 RT: 2.748 min Scan# 41
 Delta R.T. -0.128 min
 Lab File: VL039575.D
 Acq: 19 Aug 2022 8:46

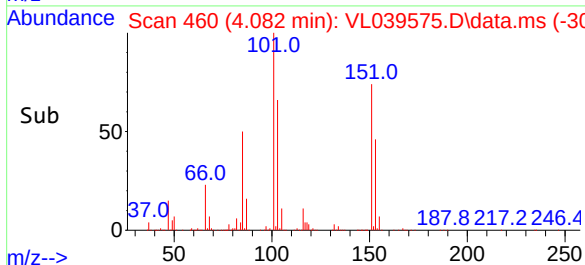
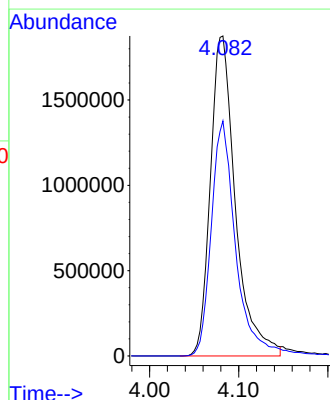
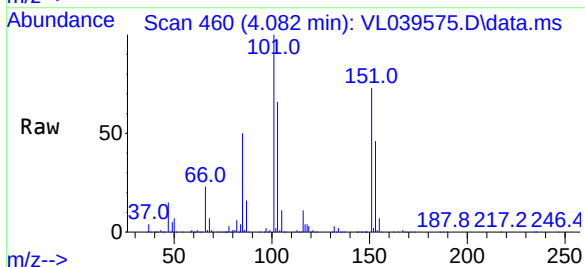
Instrument :
 MSVOA_L
 ClientSampleId :

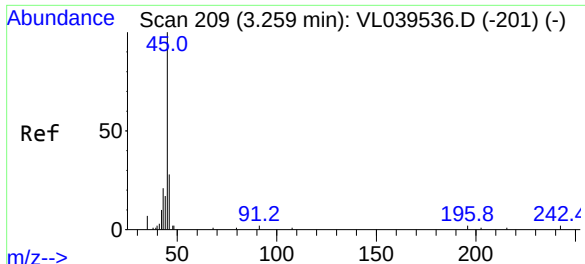
Tgt Ion: 85 Resp: 2216907
 Ion Ratio Lower Upper
 85 100
 135 0.0 56.3 84.5#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 37.270 ppbv
 RT: 4.082 min Scan# 460
 Delta R.T. 0.000 min
 Lab File: VL039575.D
 Acq: 19 Aug 2022 8:46

Tgt Ion: 101 Resp: 3668488
 Ion Ratio Lower Upper
 101 100
 151 72.6 58.6 87.8





#13

Ethanol

Concen: 0.158 ppbv

RT: 3.249 min Scan# 209

Delta R.T. -0.009 min

Lab File: VL039575.D

Acq: 19 Aug 2022 8:46

Instrument :

MSVOA_L

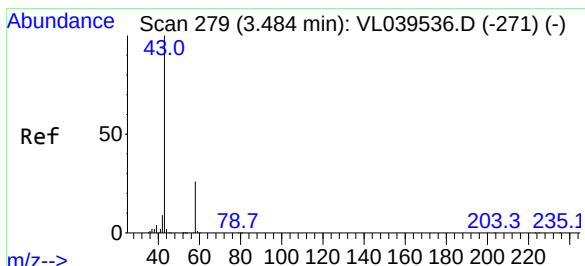
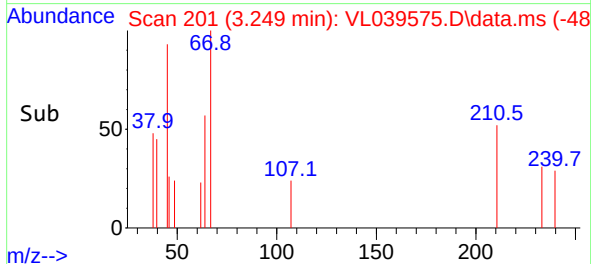
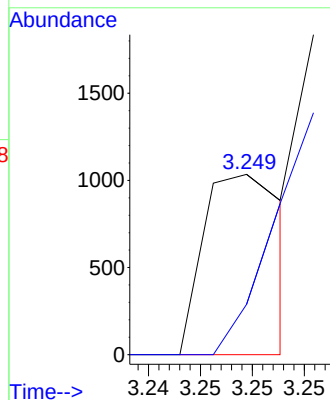
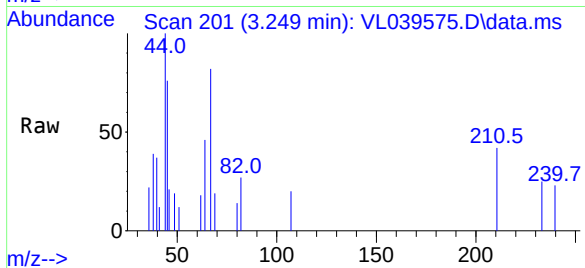
ClientSampleId :

Tgt Ion: 45 Resp: 560

Ion Ratio Lower Upper

45 100

46 0.0 19.3 77.1#



#15

Acetone

Concen: 0.302 ppbv

RT: 3.497 min Scan# 278

Delta R.T. 0.013 min

Lab File: VL039575.D

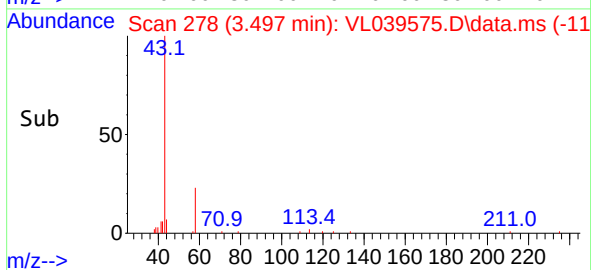
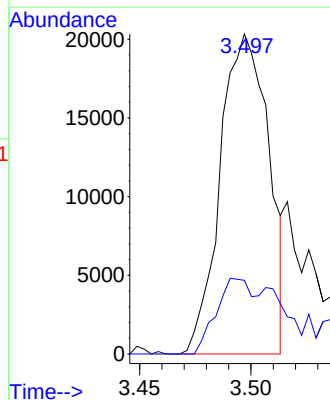
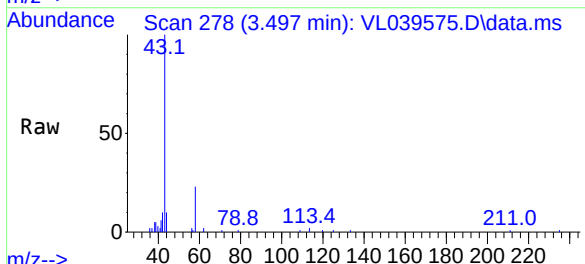
Acq: 19 Aug 2022 8:46

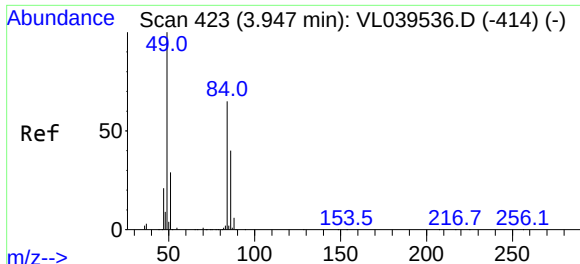
Tgt Ion: 43 Resp: 30814

Ion Ratio Lower Upper

43 100

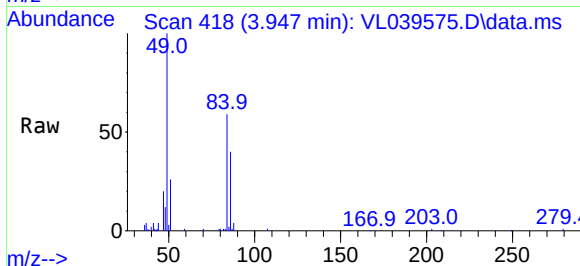
58 39.5 20.7 31.1#





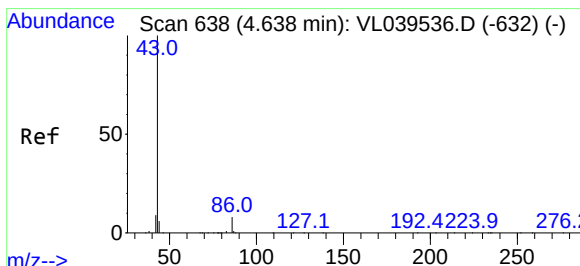
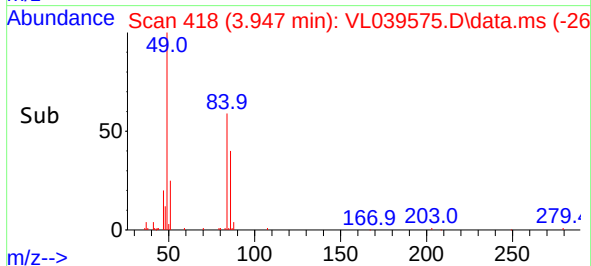
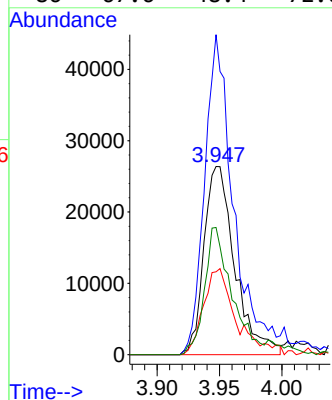
#20
Methylene Chloride
Concen: 1.100 ppbv
RT: 3.947 min Scan# 418
Delta R.T. 0.000 min
Lab File: VL039575.D
Acq: 19 Aug 2022 8:46

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 84 Resp: 45657

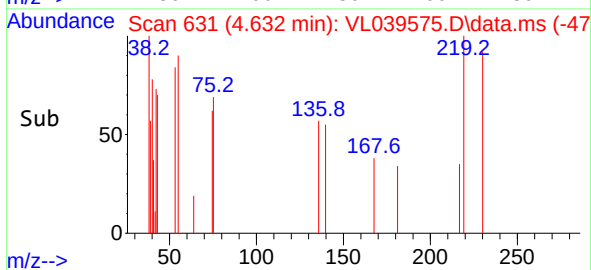
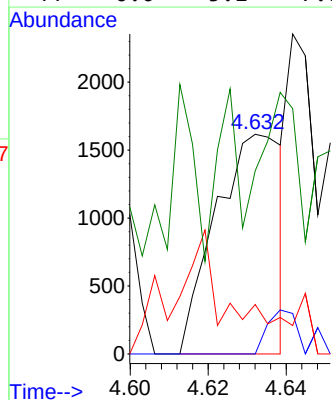
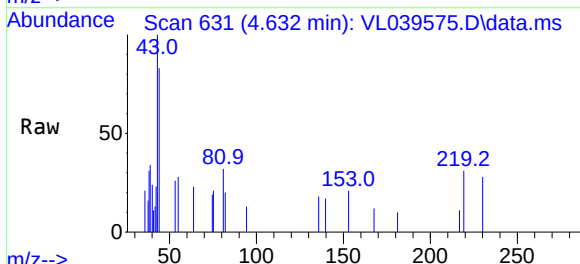
Ion	Ratio	Lower	Upper
84	100		
49	170.1	122.2	183.4
51	44.0	35.8	53.6
86	67.6	48.4	72.6

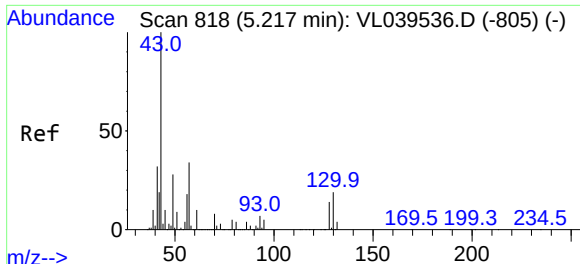


#23
Vinyl Acetate
Concen: 0.037 ppbv
RT: 4.632 min Scan# 631
Delta R.T. -0.006 min
Lab File: VL039575.D
Acq: 19 Aug 2022 8:46

Tgt Ion: 43 Resp: 1887

Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.3	7.9#
42	5.9	8.7	13.1#
44	0.0	5.1	7.7#





#25

Ethyl Acetate

Concen: 0.043 ppbv

RT: 5.214 min Scan# 812

Delta R.T. -0.003 min

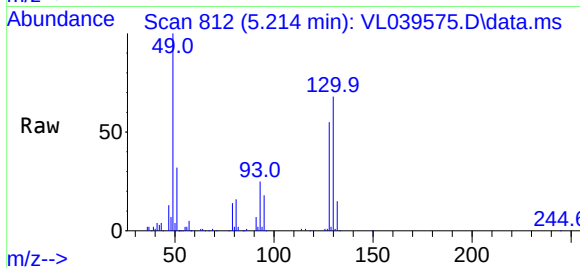
Lab File: VL039575.D

Acq: 19 Aug 2022 8:46

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 43 Resp: 9428

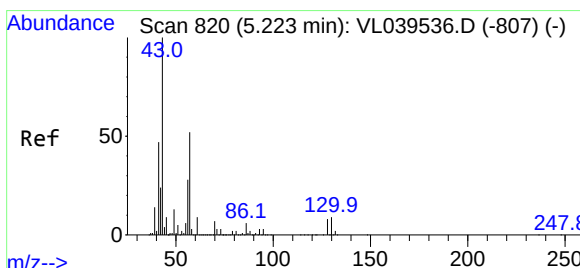
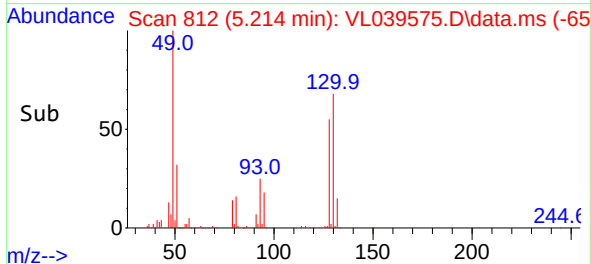
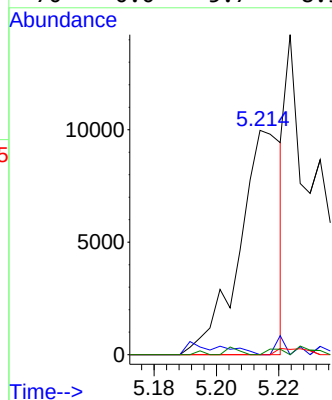
Ion Ratio Lower Upper

43 100

45 4.5 8.2 12.4#

61 0.0 8.6 12.8#

70 0.0 5.7 8.5#



#26

Hexane

Concen: 0.183 ppbv

RT: 5.220 min Scan# 814

Delta R.T. -0.003 min

Lab File: VL039575.D

Acq: 19 Aug 2022 8:46

Tgt Ion: 57 Resp: 16317

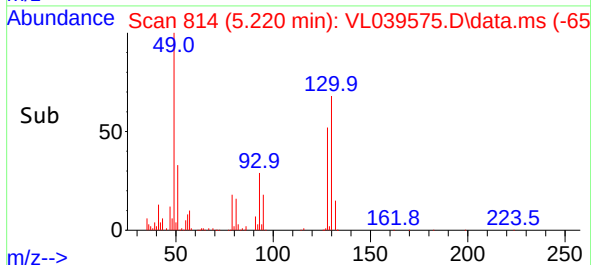
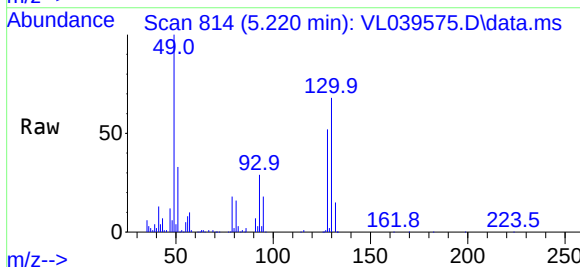
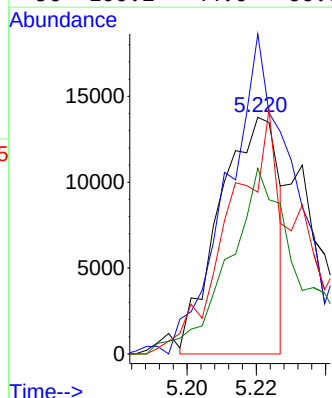
Ion Ratio Lower Upper

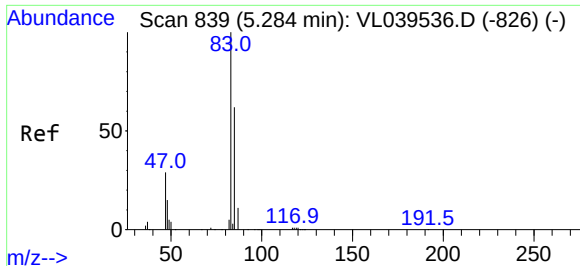
57 100

41 161.9 79.4 119.2#

43 129.7 199.7 299.5#

56 100.2 44.0 66.0#

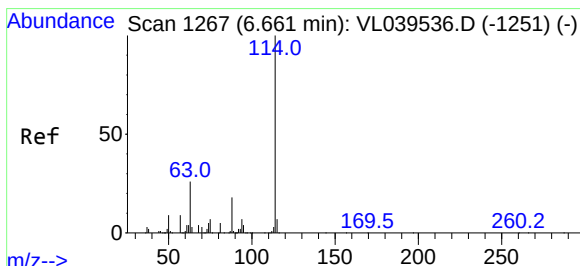
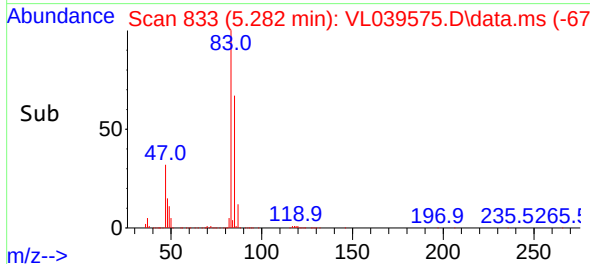
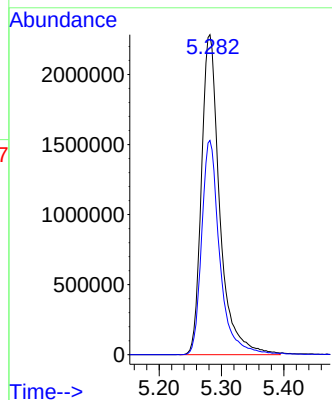
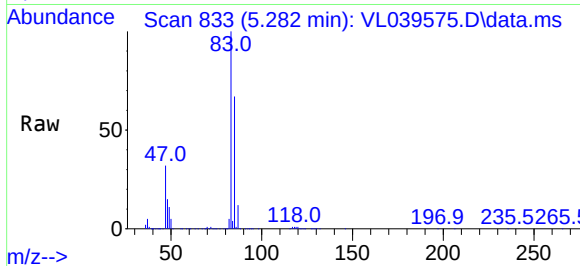




#29
Chloroform
Concen: 33.383 ppbv
RT: 5.282 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL039575.D
Acq: 19 Aug 2022 8:46

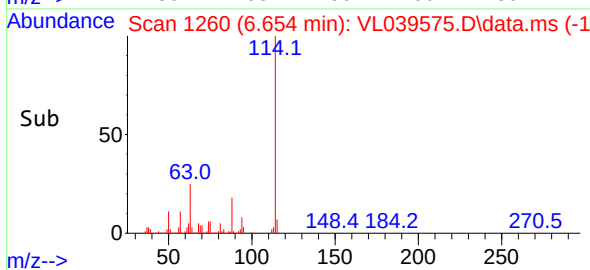
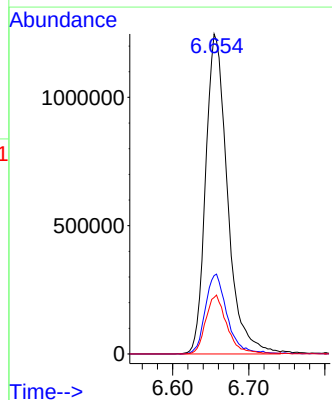
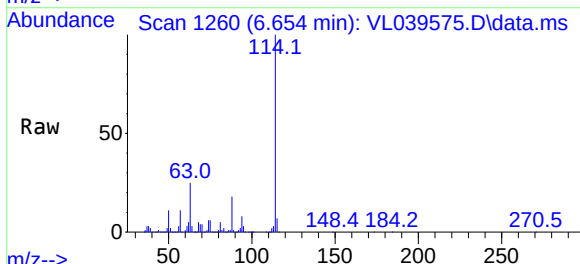
Instrument :
MSVOA_L
ClientSampleId :

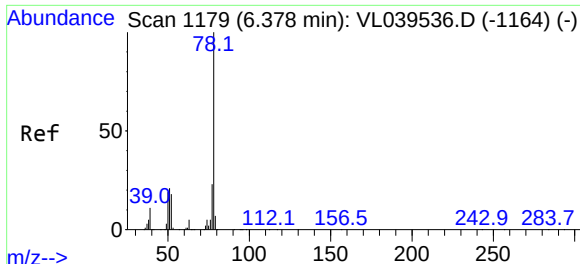
Tgt Ion: 83 Resp: 4658349
Ion Ratio Lower Upper
83 100
85 66.9 49.8 74.8



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.654 min Scan# 1260
Delta R.T. -0.006 min
Lab File: VL039575.D
Acq: 19 Aug 2022 8:46

Tgt Ion: 114 Resp: 2489946
Ion Ratio Lower Upper
114 100
63 25.2 20.6 31.0
88 18.1 14.6 22.0



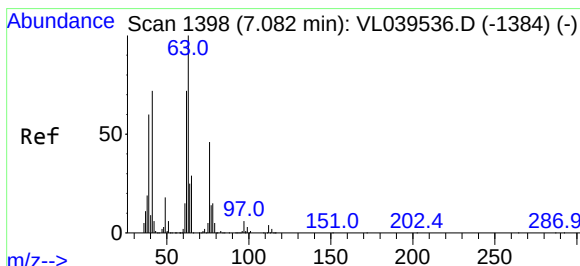
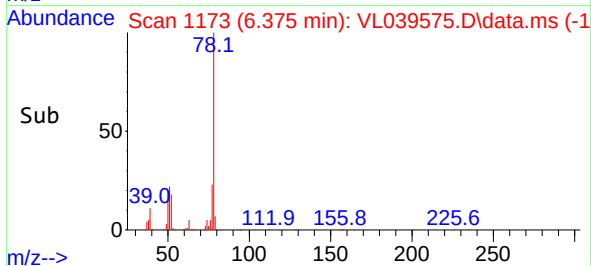
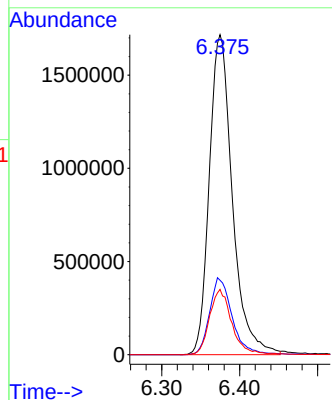
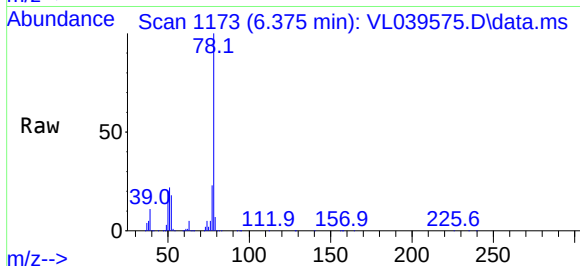


#36
Benzene
Concen: 18.589 ppbv
RT: 6.375 min Scan# 1179
Delta R.T. -0.003 min
Lab File: VL039575.D
Acq: 19 Aug 2022 8:46

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 78 Resp: 3527682

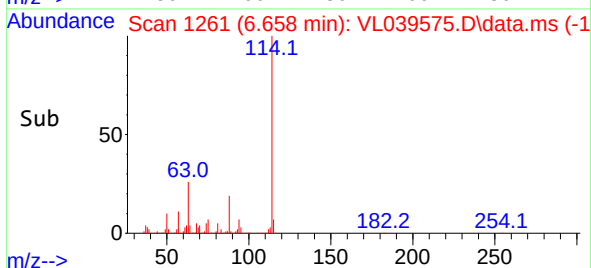
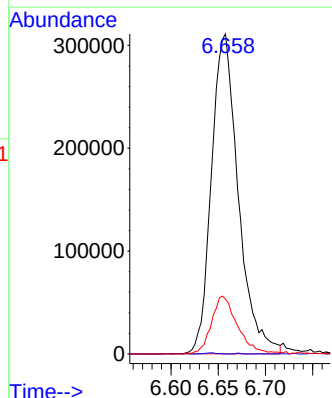
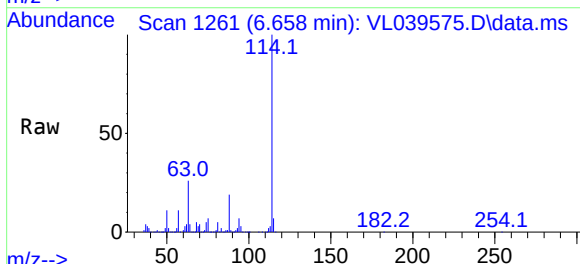
Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.6	27.8
50	20.4	15.0	22.4

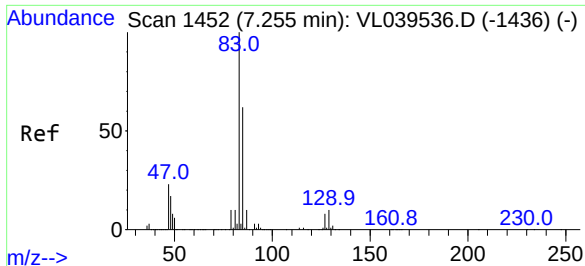


#39
1,2-Dichloropropane
Concen: 8.629 ppbv
RT: 6.658 min Scan# 1261
Delta R.T. -0.424 min
Lab File: VL039575.D
Acq: 19 Aug 2022 8:46

Tgt Ion: 63 Resp: 613710

Ion	Ratio	Lower	Upper
63	100		
41	0.0	58.0	87.0#
62	17.2	57.8	86.8#

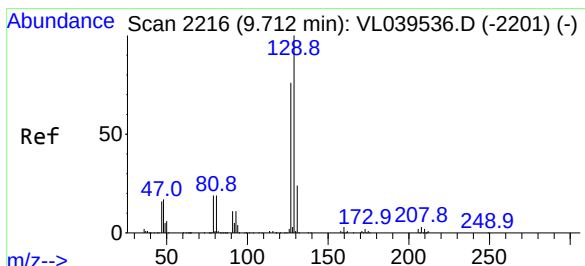
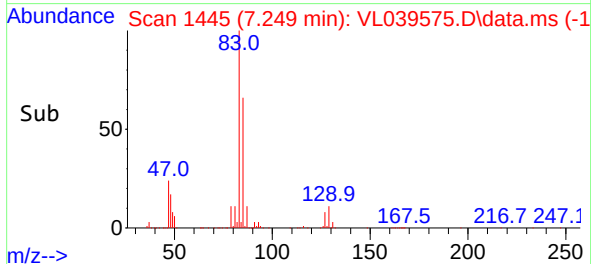
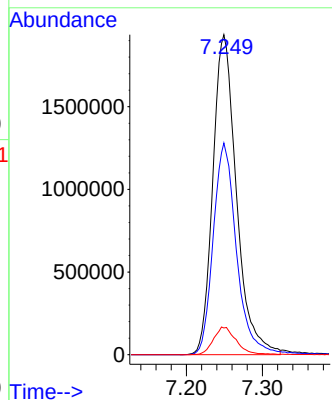
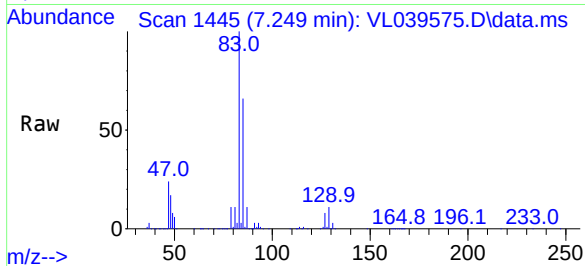




#42
Bromodichloromethane
Concen: 28.954 ppbv
RT: 7.249 min Scan# 14
Delta R.T. -0.006 min
Lab File: VL039575.D
Acq: 19 Aug 2022 8:46

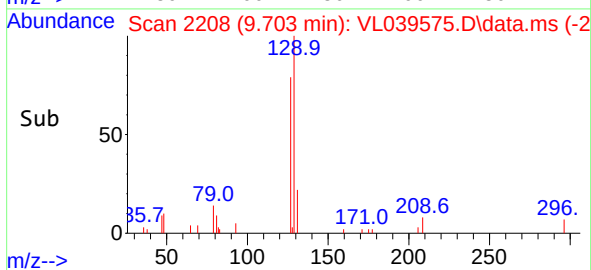
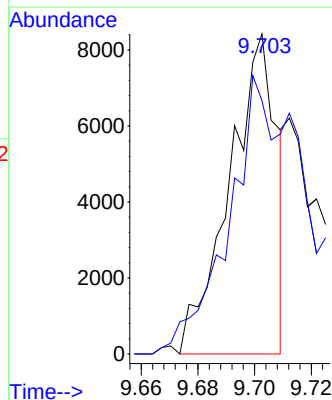
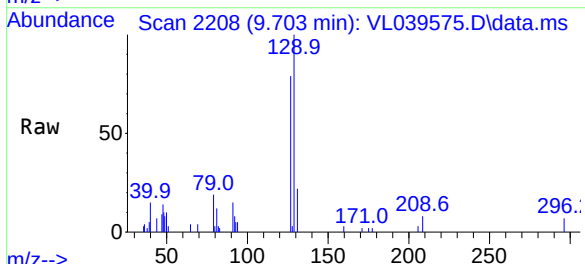
Instrument :
MSVOA_L
ClientSampleId :

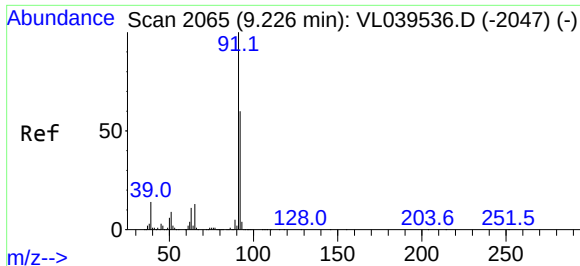
Tgt Ion: 83 Resp: 4171644
Ion Ratio Lower Upper
83 100
85 66.2 49.9 74.9
127 8.4 6.7 10.1



#48
Dibromochloromethane
Concen: 0.080 ppbv
RT: 9.703 min Scan# 2208
Delta R.T. -0.009 min
Lab File: VL039575.D
Acq: 19 Aug 2022 8:46

Tgt Ion: 129 Resp: 9736
Ion Ratio Lower Upper
129 100
127 150.9 38.8 116.3#

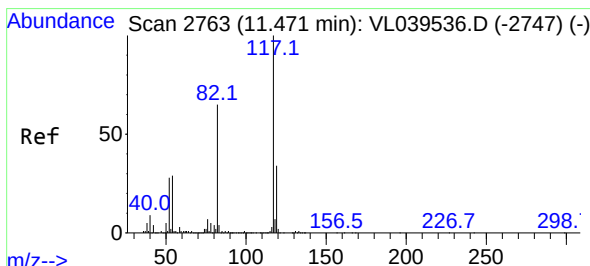
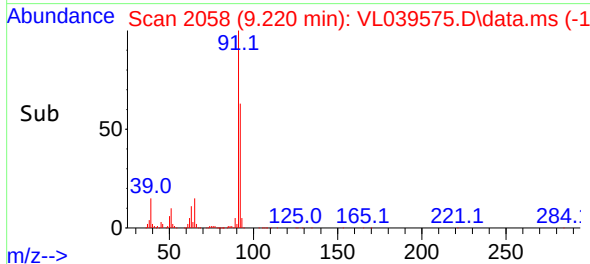
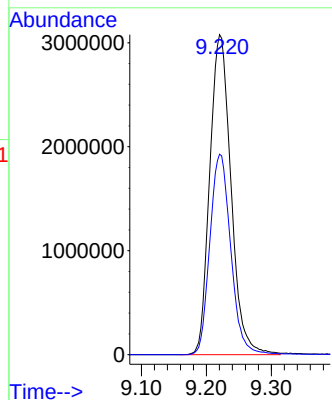
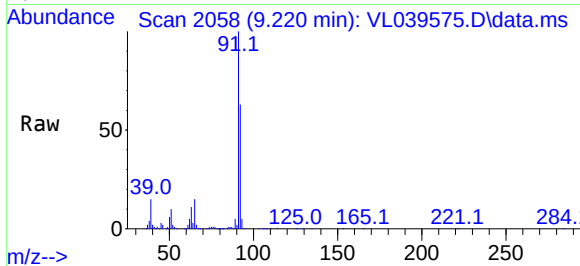




#53
Toluene
Concen: 32.830 ppbv
RT: 9.220 min Scan# 2065
Delta R.T. -0.006 min
Lab File: VL039575.D
Acq: 19 Aug 2022 8:46

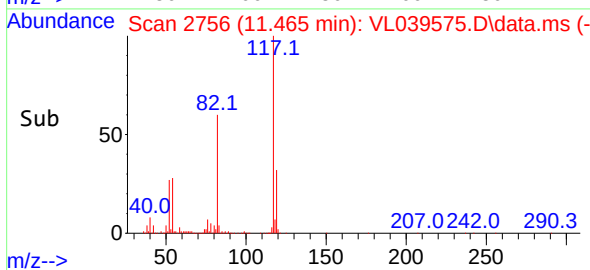
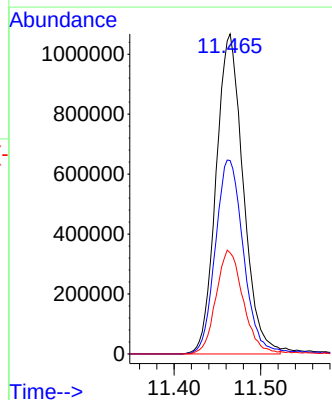
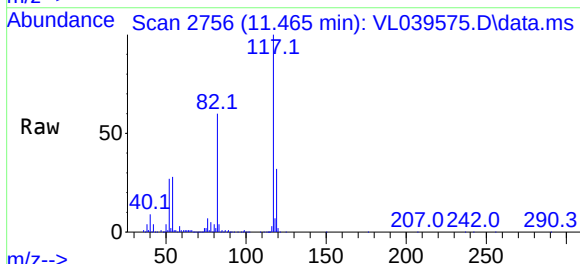
Instrument :
MSVOA_L
ClientSampleId :

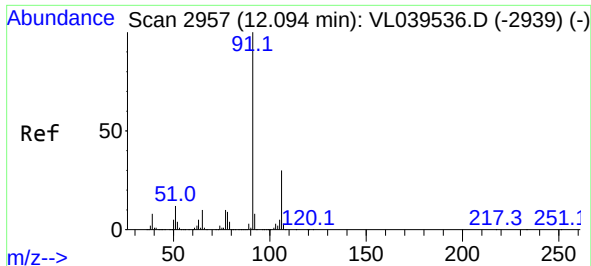
Tgt Ion: 91 Resp: 6980247
Ion Ratio Lower Upper
91 100
92 62.0 47.9 71.9



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 2756
Delta R.T. -0.006 min
Lab File: VL039575.D
Acq: 19 Aug 2022 8:46

Tgt Ion: 117 Resp: 2321265
Ion Ratio Lower Upper
117 100
82 63.7 49.1 73.7
119 32.9 25.9 38.9

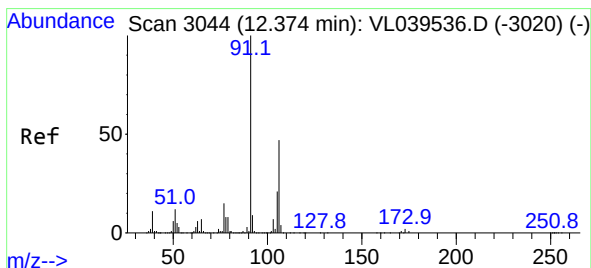
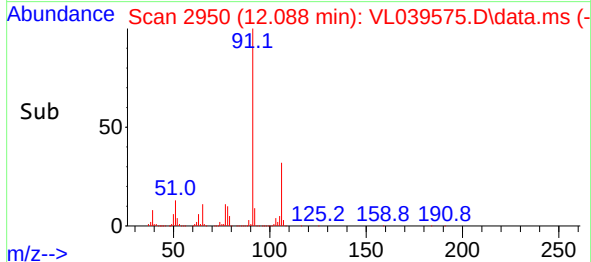
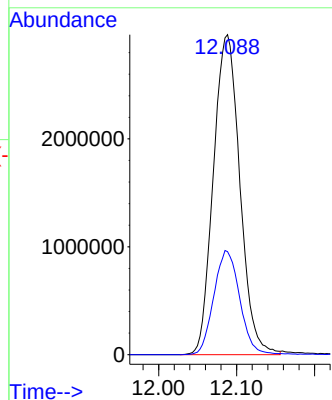
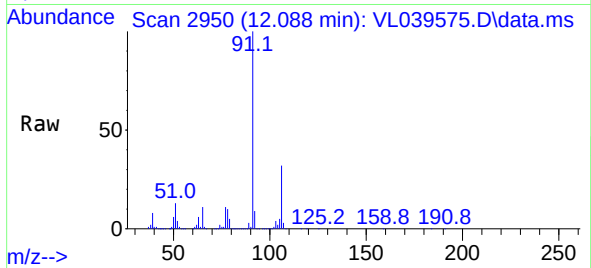




#58
Ethyl Benzene
Concen: 26.052 ppbv
RT: 12.088 min Scan# 2950
Delta R.T. -0.006 min
Lab File: VL039575.D
Acq: 19 Aug 2022 8:46

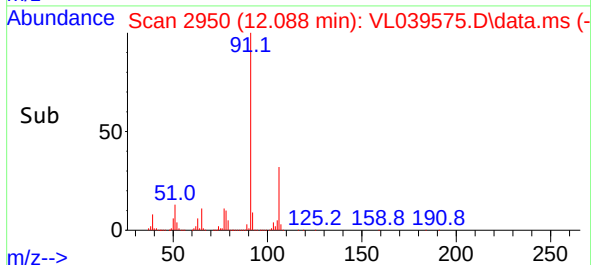
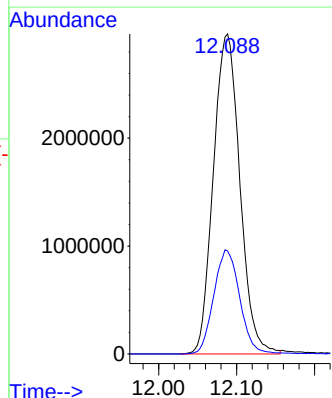
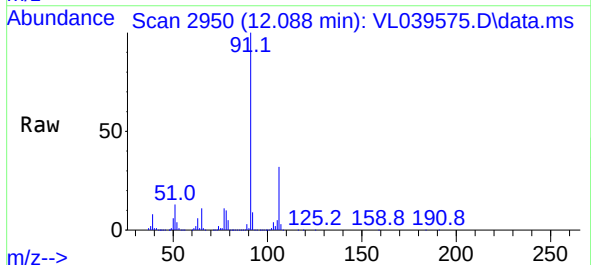
Instrument :
MSVOA_L
ClientSampleId :

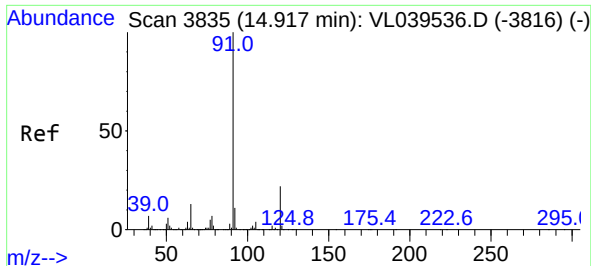
Tgt Ion: 91 Resp: 7002733
Ion Ratio Lower Upper
91 100
106 32.2 24.2 36.4



#59
m/p-Xylene
Concen: 28.975 ppbv
RT: 12.088 min Scan# 2950
Delta R.T. -0.286 min
Lab File: VL039575.D
Acq: 19 Aug 2022 8:46

Tgt Ion: 91 Resp: 7002733
Ion Ratio Lower Upper
91 100
106 32.0 0.0 0.0#

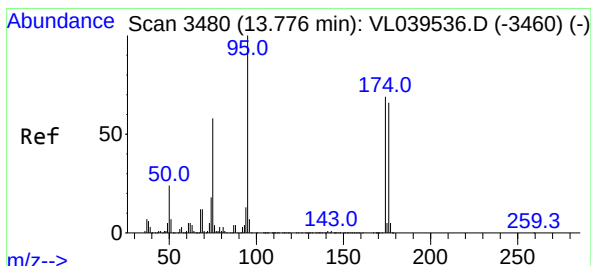
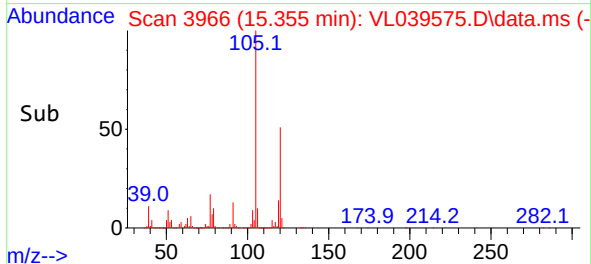
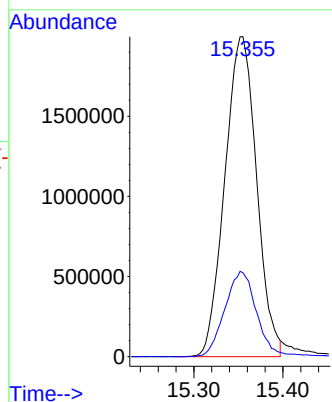
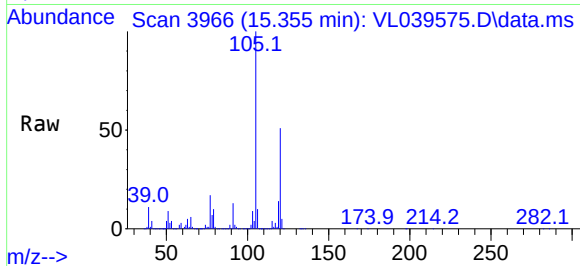




#64
n-propylbenzene
Concen: 54.057 ppbv
RT: 15.355 min Scan# 3966
Delta R.T. 0.438 min
Lab File: VL039575.D
Acq: 19 Aug 2022 8:46

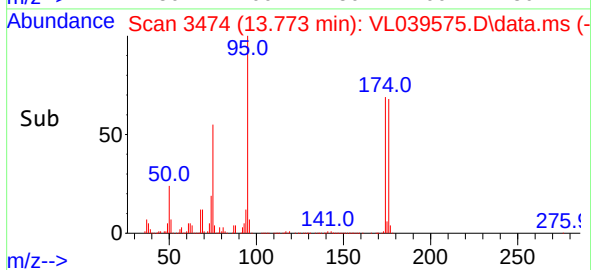
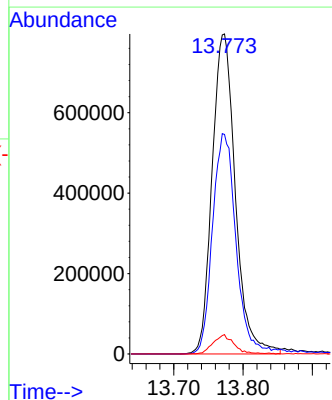
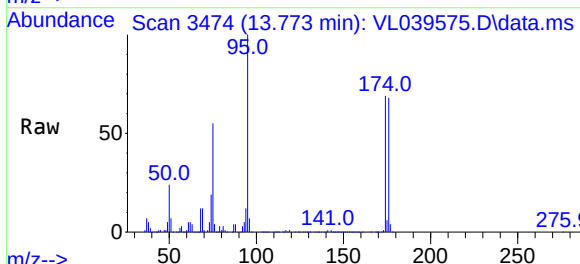
Instrument :
MSVOA_L
ClientSampleId :

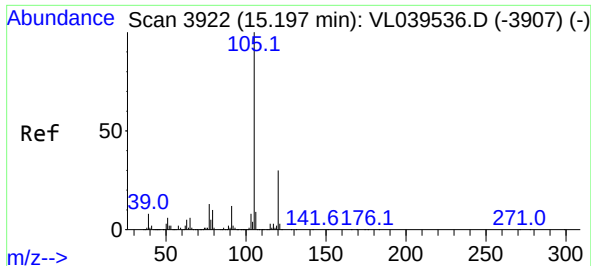
Tgt Ion:120 Resp: 4942760
Ion Ratio Lower Upper
120 100
91 0.0 372.6 559.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.607 ppbv
RT: 13.773 min Scan# 3474
Delta R.T. -0.003 min
Lab File: VL039575.D
Acq: 19 Aug 2022 8:46

Tgt Ion: 95 Resp: 1853591
Ion Ratio Lower Upper
95 100
174 71.1 56.3 84.5
175 5.5 4.3 6.5

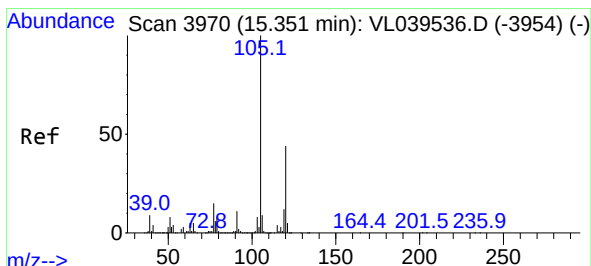
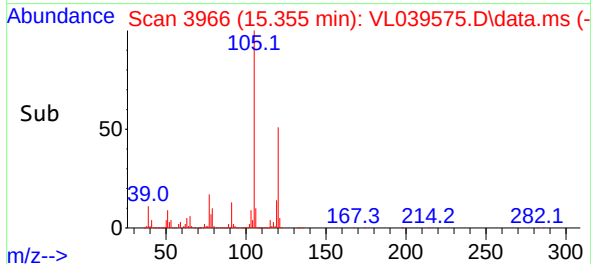
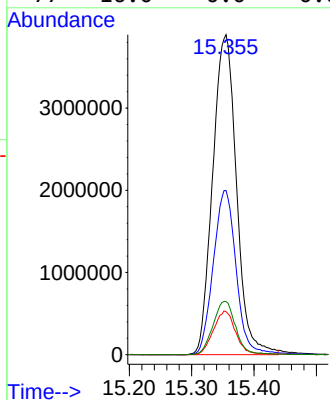
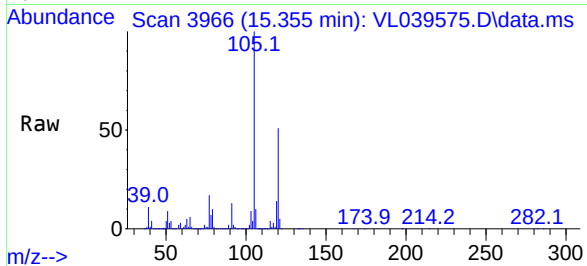




#72
4-Ethyltoluene
Concen: 37.852 ppbv
RT: 15.355 min Scan# 3922
Delta R.T. 0.158 min
Lab File: VL039575.D
Acq: 19 Aug 2022 8:46

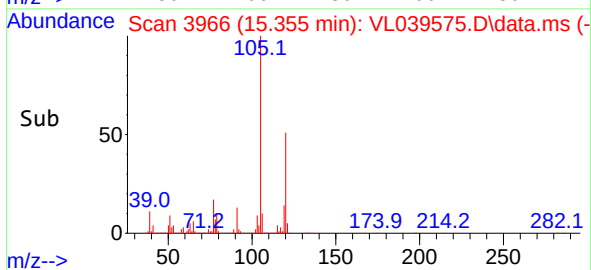
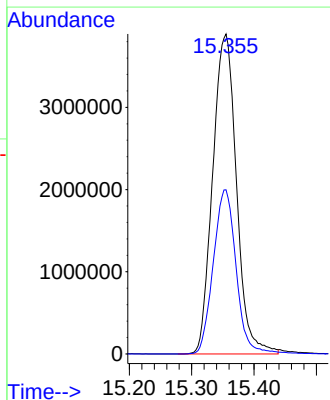
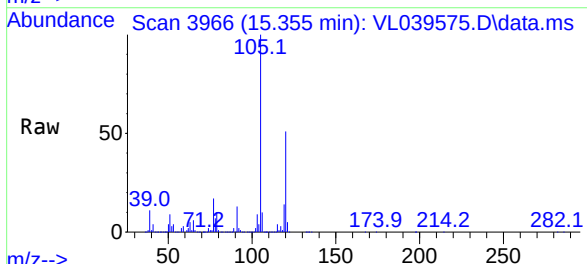
Instrument :
MSVOA_L
ClientSampleId :

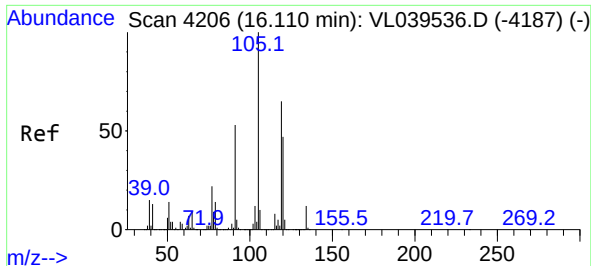
Tgt Ion:105 Resp:10304829
Ion Ratio Lower Upper
105 100
120 49.6 0.0 0.0#
91 13.0 0.0 0.0#
77 16.0 0.0 0.0#



#73
1,3,5-Trimethylbenzene
Concen: 41.446 ppbv
RT: 15.355 min Scan# 3966
Delta R.T. 0.004 min
Lab File: VL039575.D
Acq: 19 Aug 2022 8:46

Tgt Ion:105 Resp:10304829
Ion Ratio Lower Upper
105 100
120 51.3 35.4 53.2



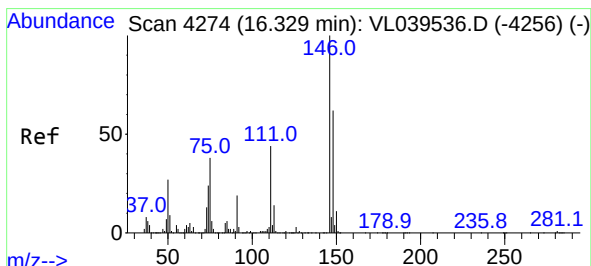
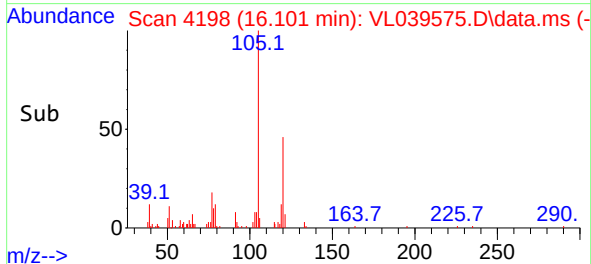
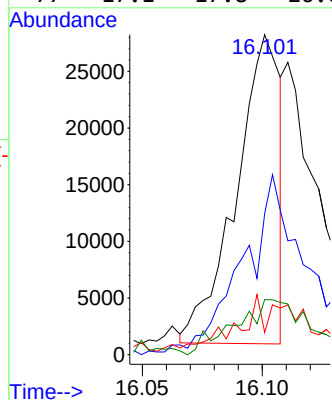
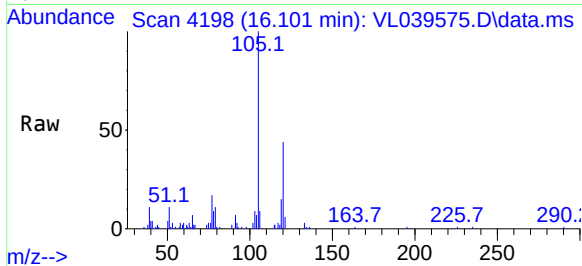


#74
 1,2,4-Trimethylbenzene
 Concen: 0.125 ppbv
 RT: 16.101 min Scan# 4187
 Delta R.T. -0.009 min
 Lab File: VL039575.D
 Acq: 19 Aug 2022 8:46

Instrument :
 MSVOA_L
 ClientSampleId :

Tgt Ion:105 Resp: 34565

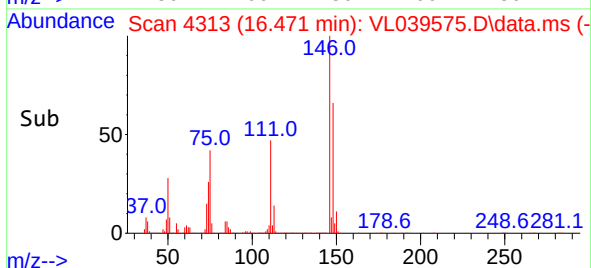
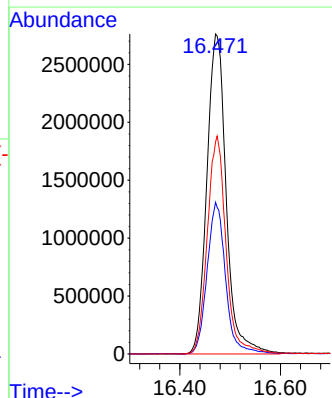
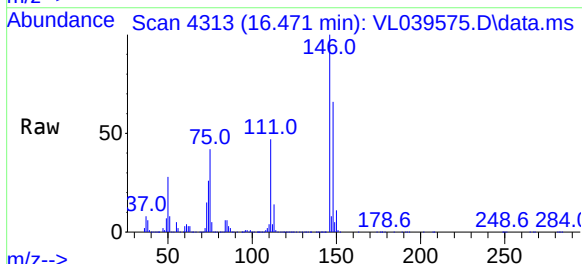
Ion	Ratio	Lower	Upper
105	100		
120	43.8	37.8	56.8
91	5.2	43.8	65.6#
77	17.1	17.8	26.6#

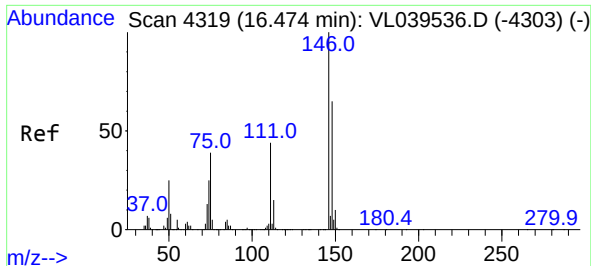


#75
 1,3-Dichlorobenzene
 Concen: 43.823 ppbv
 RT: 16.471 min Scan# 4313
 Delta R.T. 0.142 min
 Lab File: VL039575.D
 Acq: 19 Aug 2022 8:46

Tgt Ion:146 Resp: 7379927

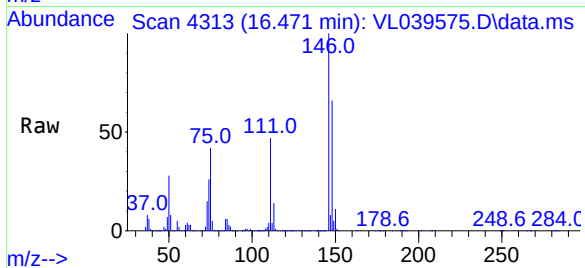
Ion	Ratio	Lower	Upper
146	100		
111	45.2	22.9	68.5
148	65.8	32.4	97.0





#76
 1,4-Dichlorobenzene
 Concen: 43.759 ppbv
 RT: 16.471 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL039575.D
 Acq: 19 Aug 2022 8:46

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion:146 Resp: 7379927

Ion	Ratio	Lower	Upper
146	100		
111	45.2	22.3	66.8
148	65.8	31.5	94.5

