

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111022\
 Data File : VL039880.D
 Acq On : 11 Nov 2022 1:47
 Operator : SY/AP
 Sample : N5584-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 11 05:04:58 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110222AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Nov 03 09:27:12 2022
 Response via : Initial Calibration

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

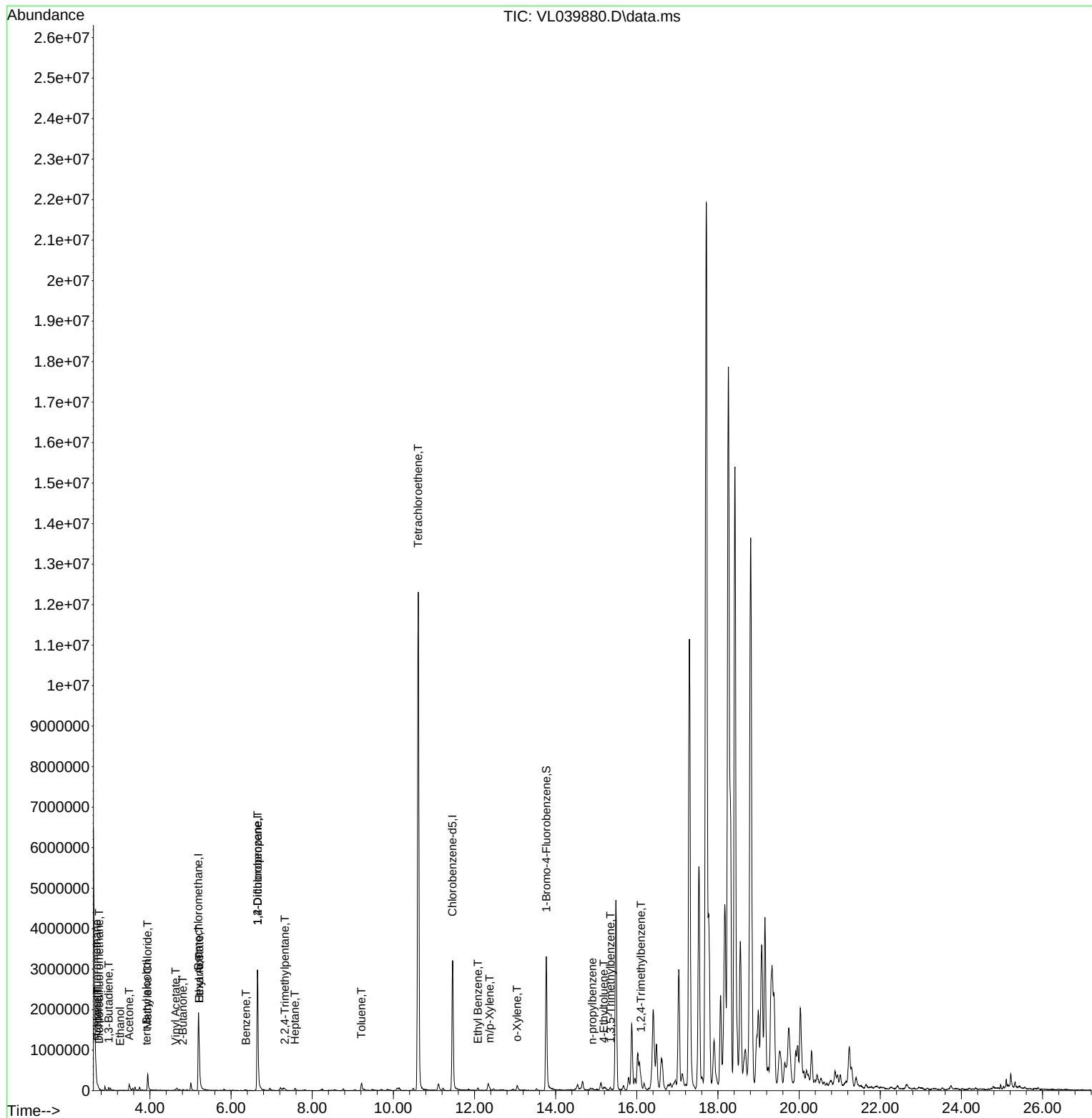
Internal Standards							
1) Bromochloromethane		5.195	49	925432	10.000	ppbv	0.00
33) 1,4-Difluorobenzene		6.651	114	2376372	10.000	ppbv	0.00
55) Chlorobenzene-d5		11.458	117	2075624	10.000	ppbv	0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		13.770	95	1665587	10.721	ppbv	0.00
Spiked Amount		10.000	Range	65 - 135	Recovery	=	107.200%
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane		2.748	85	12973	0.083	ppbv	90
3) Chlorodifluoromethane		2.690	51	8451	0.077	ppbv	97
9) Propene		2.716	41	13379	0.233	ppbv	86
10) Heptane		7.574	43	22411	0.163	ppbv	87
13) Ethanol		3.266	45	5420	1.334	ppbv #	60
15) Acetone		3.491	43	177592	1.577	ppbv	97
16) 1,3-Butadiene		2.983	39	19922	0.380	ppbv #	15
17) tert-Butyl alcohol		3.918	59	9143	0.085	ppbv #	94
20) Methylene Chloride		3.944	84	138762	3.443	ppbv	96
23) Vinyl Acetate		4.635	43	21985	0.490	ppbv #	96
25) Ethyl Acetate		5.217	43	140506	0.606	ppbv #	76
26) Hexane		5.217	57	206599	1.997	ppbv #	35
34) 2-Butanone		4.809	43	8784	0.090	ppbv #	54
36) Benzene		6.368	78	10423	0.052	ppbv #	80
39) 1,2-Dichloropropane		6.651	63	624027	7.990	ppbv #	28
44) 2,2,4-Trimethylpentane		7.323	57	15384	0.045	ppbv #	1
52) Tetrachloroethene		10.613	164	3198585	42.590	ppbv	94
53) Toluene		9.214	91	89032	0.387	ppbv #	57
58) Ethyl Benzene		12.085	91	24092	0.086	ppbv	99
59) m/p-Xylene		12.371	91	28235	0.121	ppbv #	30
60) o-Xylene		13.050	91	46508	0.210	ppbv #	48
64) n-propylbenzene		14.905	120	4272	0.049	ppbv #	1
72) 4-Ethyltoluene		15.185	105	20725	0.083	ppbv #	42
73) 1,3,5-Trimethylbenzene		15.352	105	19362	0.087	ppbv #	81
74) 1,2,4-Trimethylbenzene		16.101	105	191223	0.812	ppbv #	70

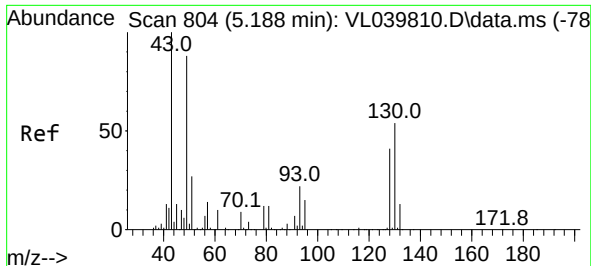
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110222\
Data File : VL039880.D
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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
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Quant Time: Nov 11 05:04:58 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110222AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Nov 03 09:27:12 2022
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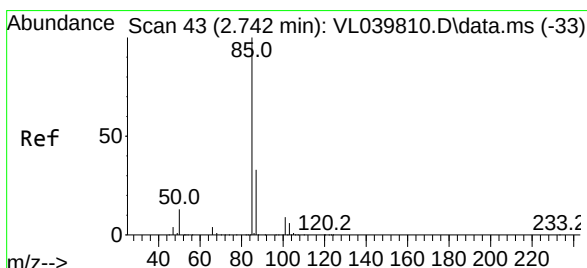
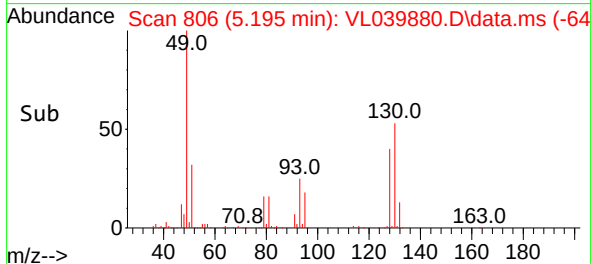
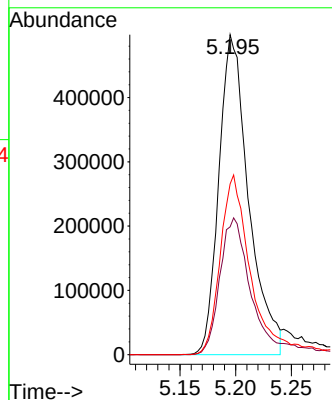
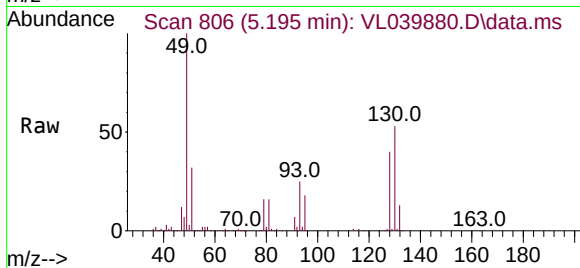




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 80
Delta R.T. 0.007 min
Lab File: VL039880.D
Acq: 11 Nov 2022 1:47

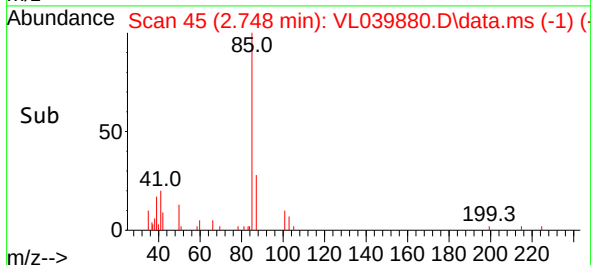
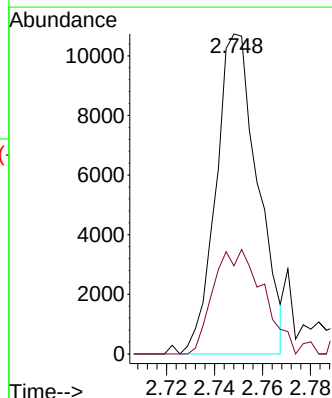
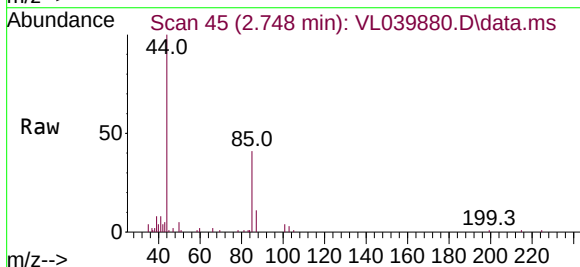
Instrument :
MSVOA_L
ClientSampleId :

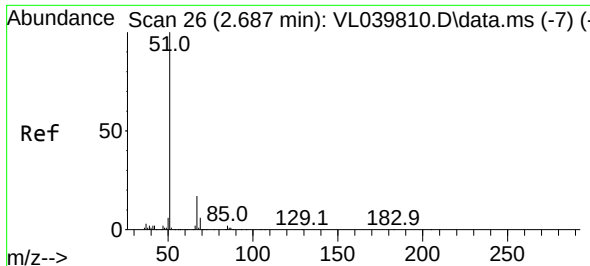
Tgt Ion: 49 Resp: 925432
Ion Ratio Lower Upper
49 100
128 48.4 24.6 73.6
130 60.7 31.1 93.2



#2
Dichlorodifluoromethane
Concen: 0.083 ppbv
RT: 2.748 min Scan# 45
Delta R.T. 0.006 min
Lab File: VL039880.D
Acq: 11 Nov 2022 1:47

Tgt Ion: 85 Resp: 12973
Ion Ratio Lower Upper
85 100
87 27.6 26.4 39.6

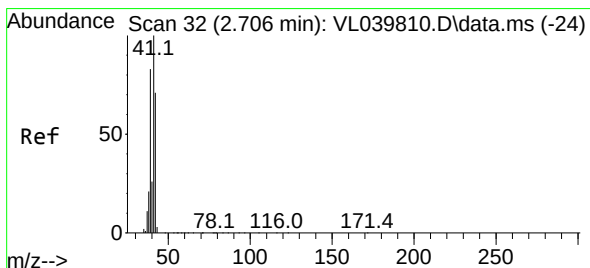
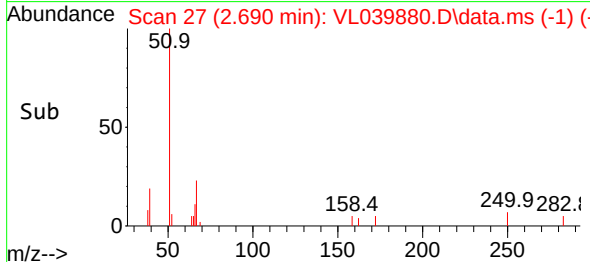
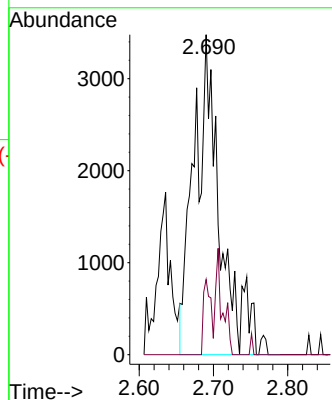
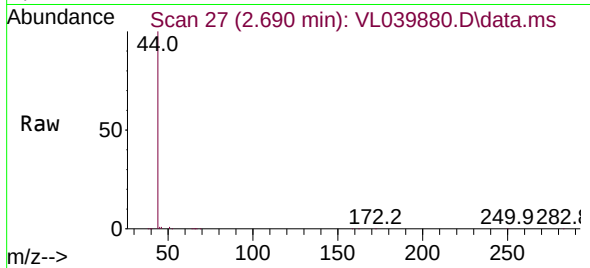




#3
Chlorodifluoromethane
Concen: 0.077 ppbv
RT: 2.690 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL039880.D
Acq: 11 Nov 2022 1:47

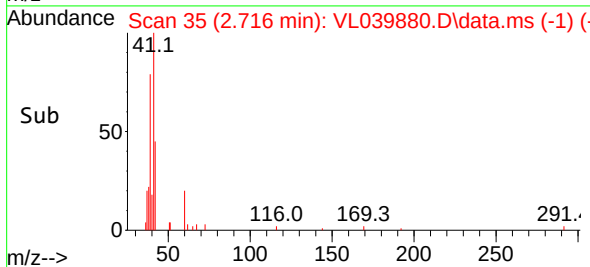
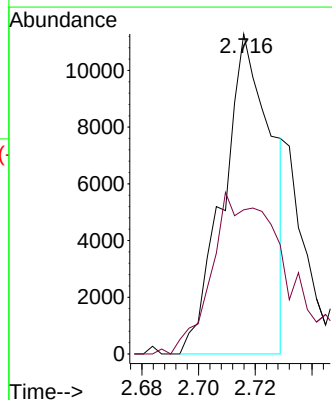
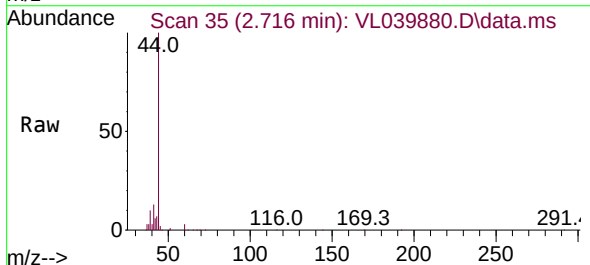
Instrument :
MSVOA_L
ClientSampleId :

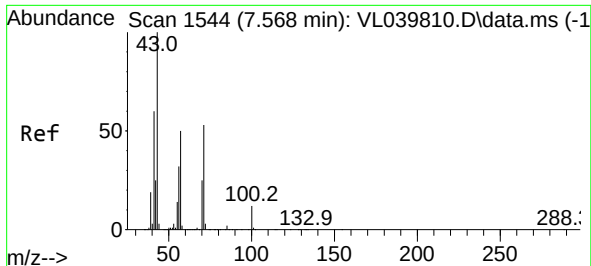
Tgt Ion: 51 Resp: 8451
Ion Ratio Lower Upper
51 100
67 15.4 13.2 19.8



#9
Propene
Concen: 0.233 ppbv
RT: 2.716 min Scan# 35
Delta R.T. 0.010 min
Lab File: VL039880.D
Acq: 11 Nov 2022 1:47

Tgt Ion: 41 Resp: 13379
Ion Ratio Lower Upper
41 100
42 82.0 56.3 84.5

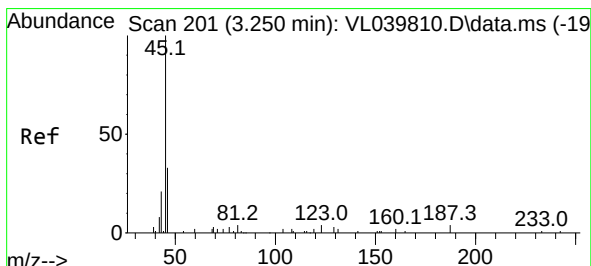
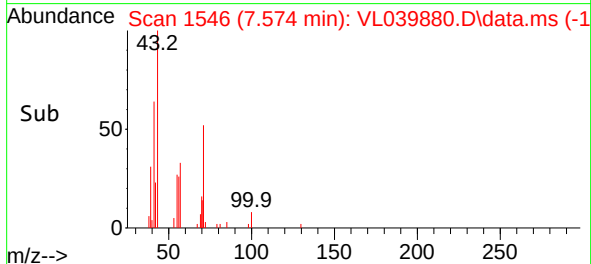
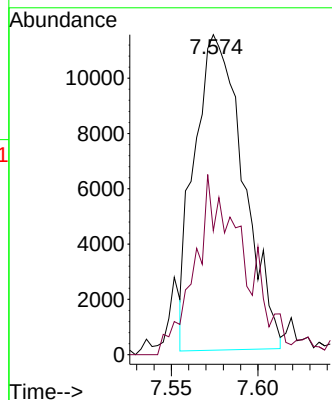
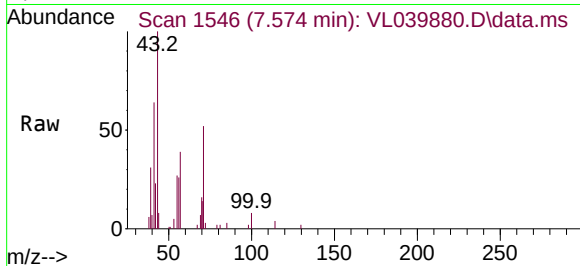




#10
Heptane
Concen: 0.163 ppbv
RT: 7.574 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL039880.D
Acq: 11 Nov 2022 1:47

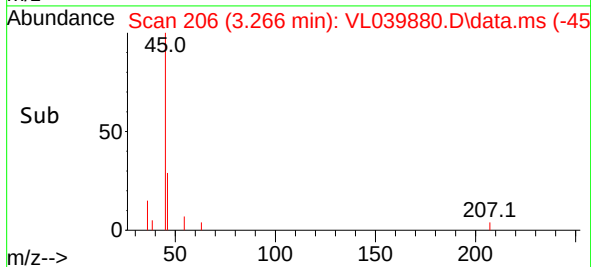
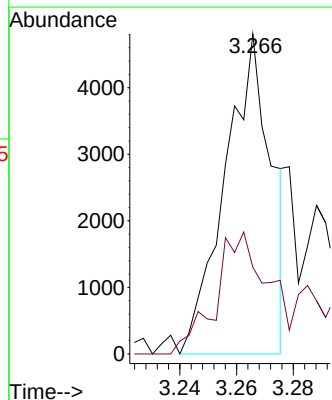
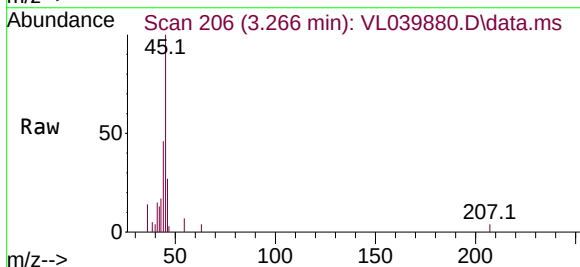
Instrument :
MSVOA_L
ClientSampleId :

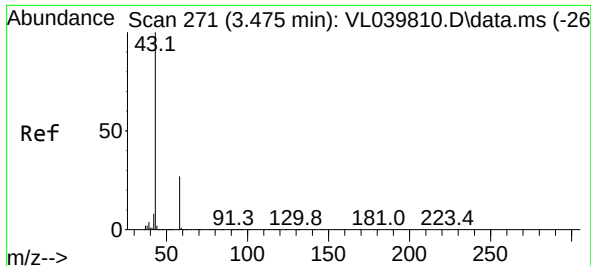
Tgt Ion: 43 Resp: 22411
Ion Ratio Lower Upper
43 100
57 59.6 40.5 60.7



#13
Ethanol
Concen: 1.334 ppbv
RT: 3.266 min Scan# 206
Delta R.T. 0.016 min
Lab File: VL039880.D
Acq: 11 Nov 2022 1:47

Tgt Ion: 45 Resp: 5420
Ion Ratio Lower Upper
45 100
46 66.2 16.5 65.9#

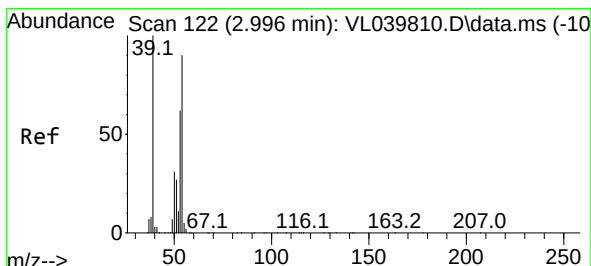
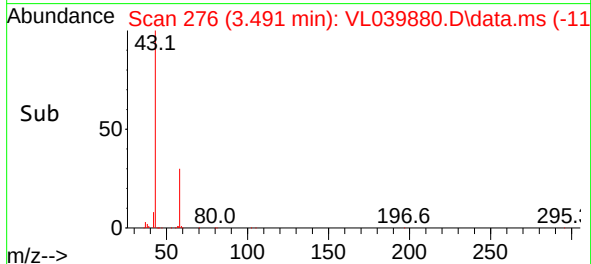
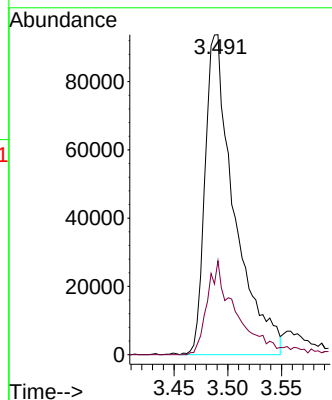
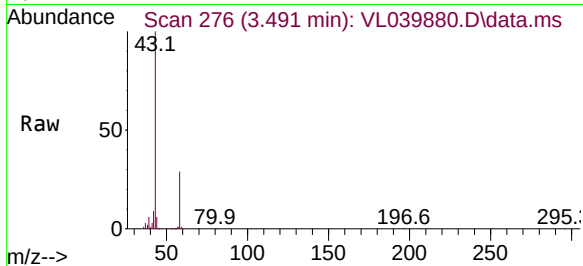




#15
Acetone
Concen: 1.577 ppbv
RT: 3.491 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL039880.D
Acq: 11 Nov 2022 1:47

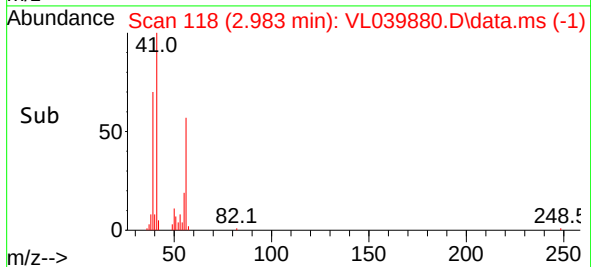
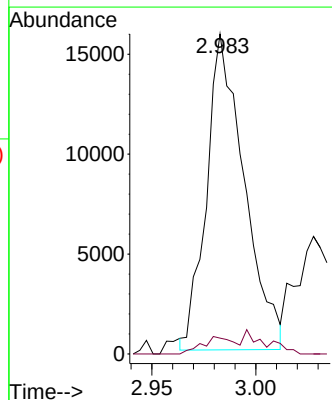
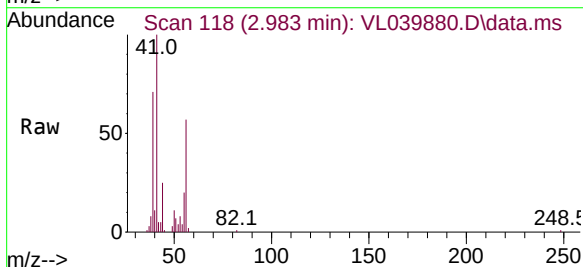
Instrument :
MSVOA_L
ClientSampleId :

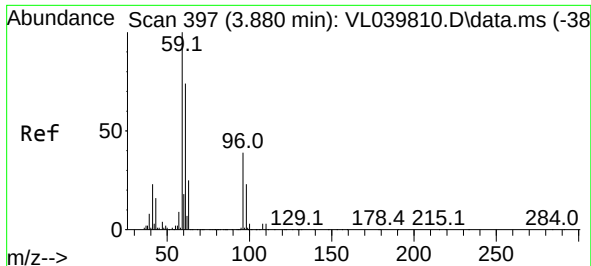
Tgt Ion: 43 Resp: 177592
Ion Ratio Lower Upper
43 100
58 30.5 23.2 34.8



#16
1,3-Butadiene
Concen: 0.380 ppbv
RT: 2.983 min Scan# 118
Delta R.T. -0.013 min
Lab File: VL039880.D
Acq: 11 Nov 2022 1:47

Tgt Ion: 39 Resp: 19922
Ion Ratio Lower Upper
39 100
54 9.0 71.0 106.4#





#17

tert-Butyl alcohol

Concen: 0.085 ppbv

RT: 3.918 min Scan# 409

Delta R.T. 0.039 min

Lab File: VL039880.D

Acq: 11 Nov 2022 1:47

Instrument :

MSVOA_L

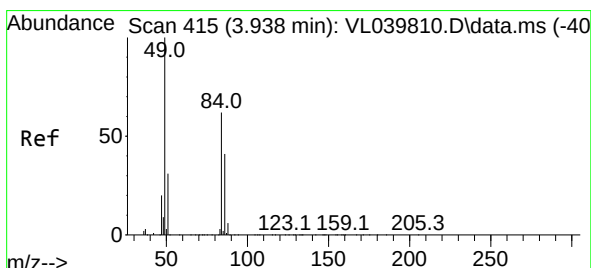
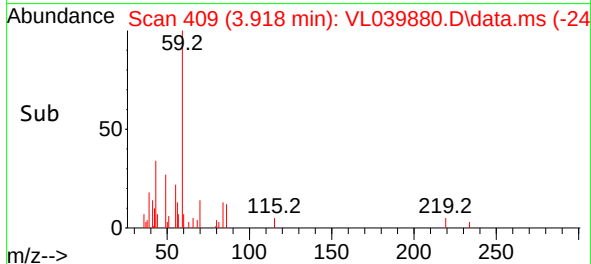
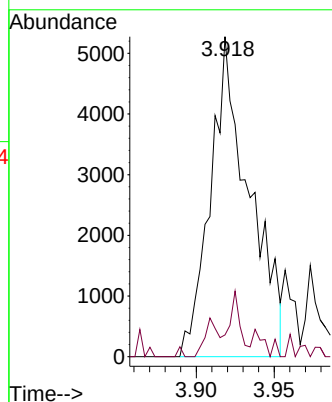
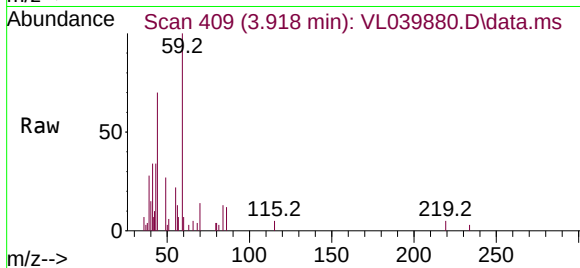
ClientSampleId :

Tgt Ion: 59 Resp: 9143

Ion Ratio Lower Upper

59 100

57 13.8 9.0 13.6#



#20

Methylene Chloride

Concen: 3.443 ppbv

RT: 3.944 min Scan# 417

Delta R.T. 0.006 min

Lab File: VL039880.D

Acq: 11 Nov 2022 1:47

Tgt Ion: 84 Resp: 138762

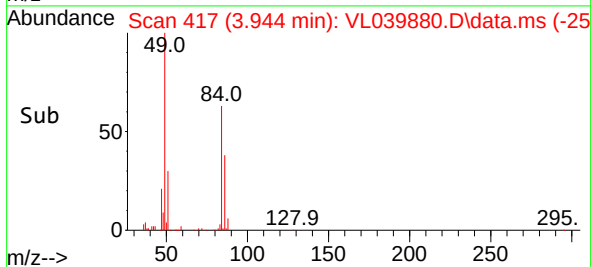
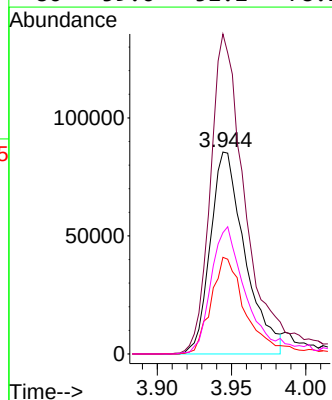
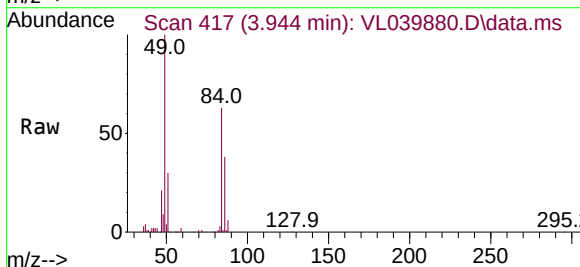
Ion Ratio Lower Upper

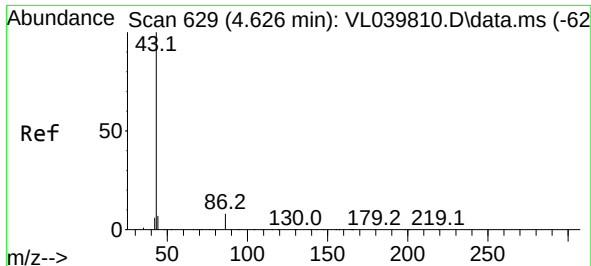
84 100

49 158.0 128.6 192.8

51 47.6 40.2 60.4

86 59.6 52.2 78.2

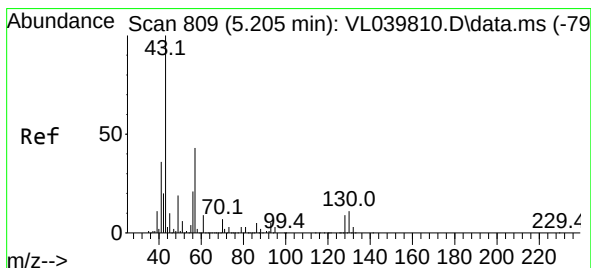
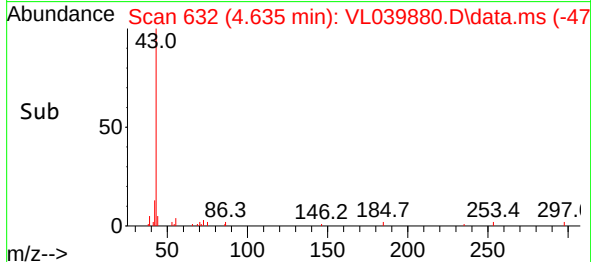
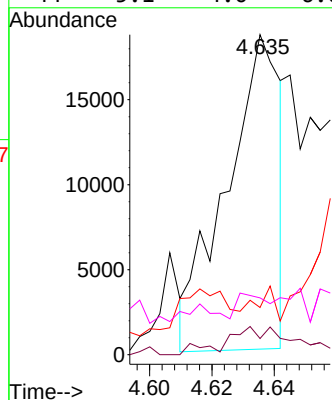
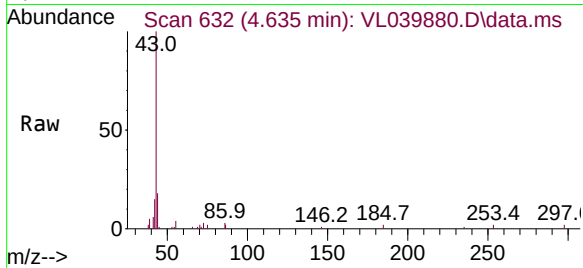




#23
 Vinyl Acetate
 Concen: 0.490 ppbv
 RT: 4.635 min Scan# 61
 Delta R.T. 0.010 min
 Lab File: VL039880.D
 Acq: 11 Nov 2022 1:47

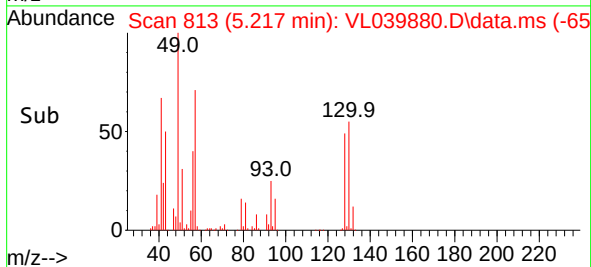
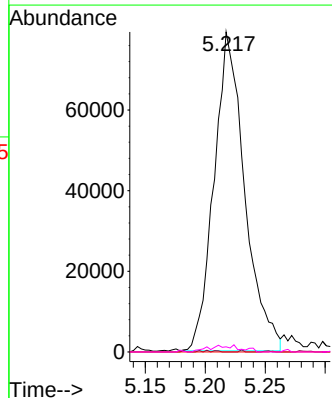
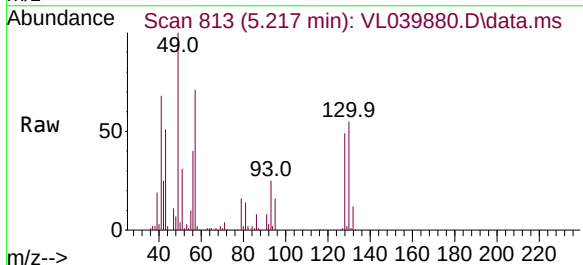
Instrument :
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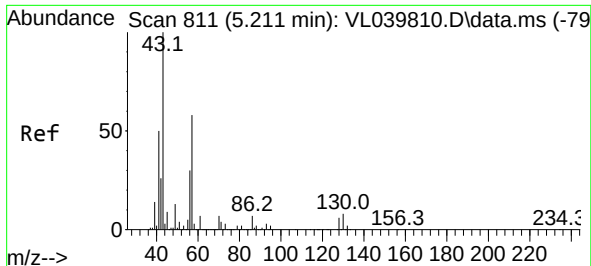
Tgt Ion:	43	Resp:	21985
Ion	Ratio	Lower	Upper
43	100		
86	6.1	5.0	7.4
42	5.2	6.8	10.2#
44	5.1	4.0	6.0



#25
 Ethyl Acetate
 Concen: 0.606 ppbv
 RT: 5.217 min Scan# 813
 Delta R.T. 0.013 min
 Lab File: VL039880.D
 Acq: 11 Nov 2022 1:47

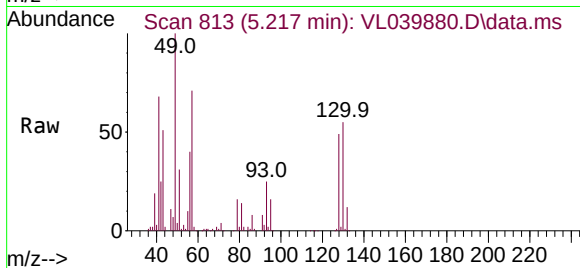
Tgt Ion:	43	Resp:	140506
Ion	Ratio	Lower	Upper
43	100		
45	0.1	8.2	12.2#
61	0.0	8.1	12.1#
70	2.2	5.9	8.9#



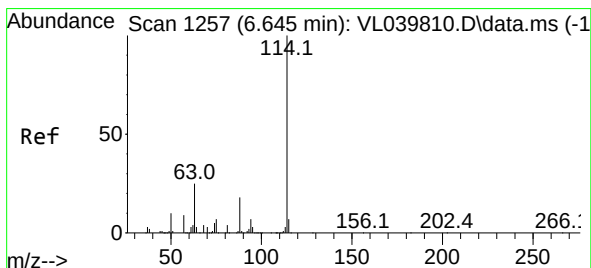
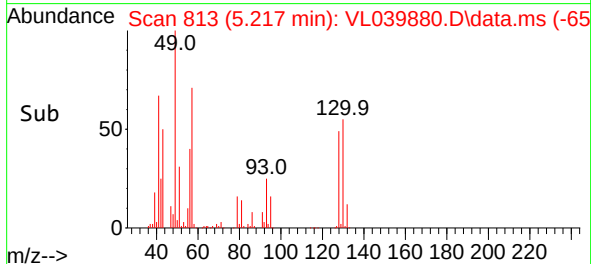
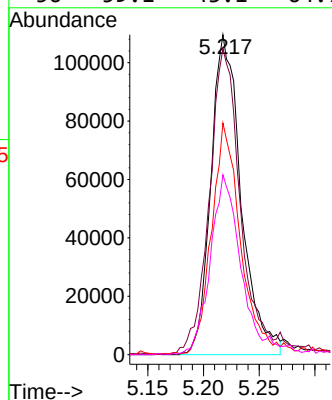


#26
Hexane
Concen: 1.997 ppbv
RT: 5.217 min Scan# 811
Delta R.T. 0.006 min
Lab File: VL039880.D
Acq: 11 Nov 2022 1:47

Instrument :
MSVOA_L
ClientSampleId :

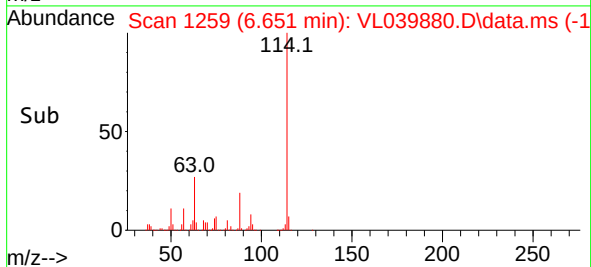
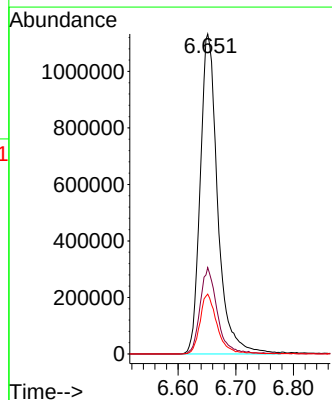
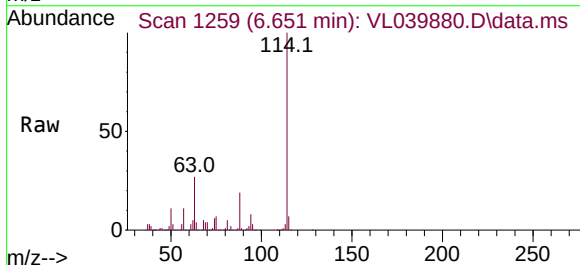


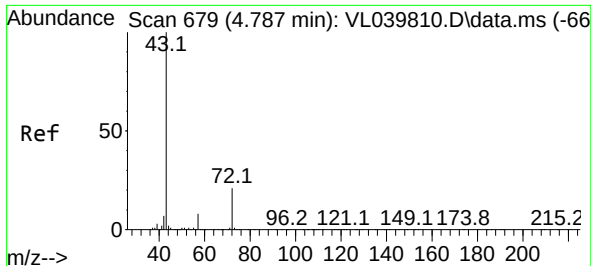
Tgt Ion: 57 Resp: 206599
Ion Ratio Lower Upper
57 100
41 102.2 73.7 110.5
43 70.4 189.8 284.8#
56 59.1 43.1 64.7



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.651 min Scan# 1259
Delta R.T. 0.006 min
Lab File: VL039880.D
Acq: 11 Nov 2022 1:47

Tgt Ion: 114 Resp: 2376372
Ion Ratio Lower Upper
114 100
63 26.8 19.8 29.6
88 18.4 14.4 21.6

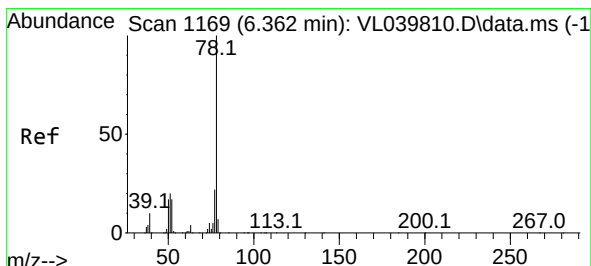
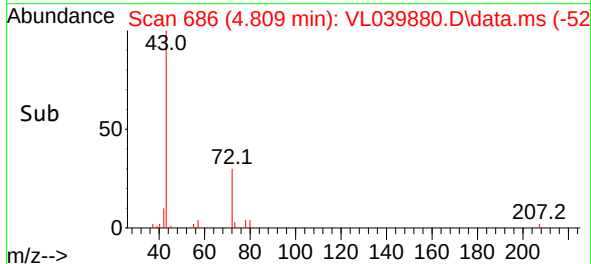
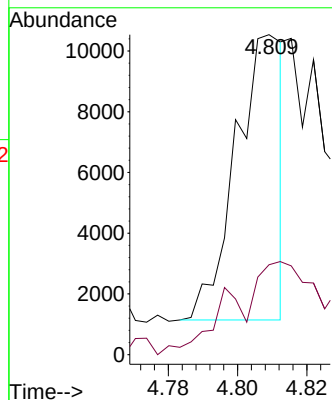
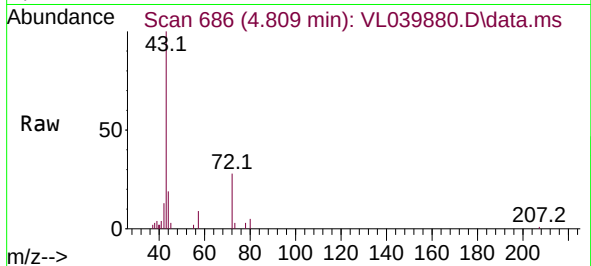




#34
2-Butanone
Concen: 0.090 ppbv
RT: 4.809 min Scan# 61
Delta R.T. 0.023 min
Lab File: VL039880.D
Acq: 11 Nov 2022 1:47

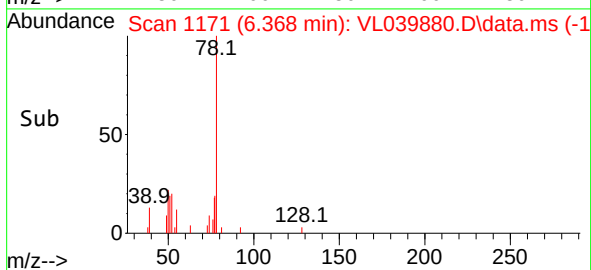
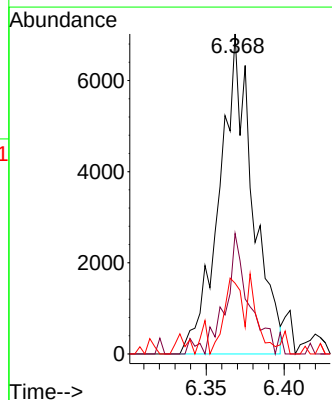
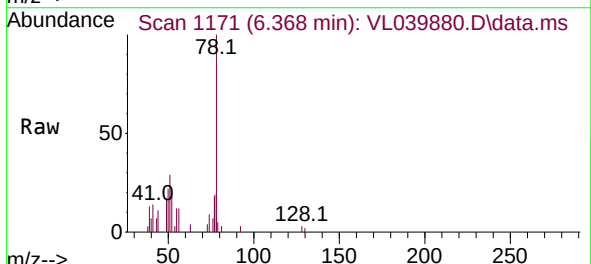
Instrument :
MSVOA_L
ClientSampleId :

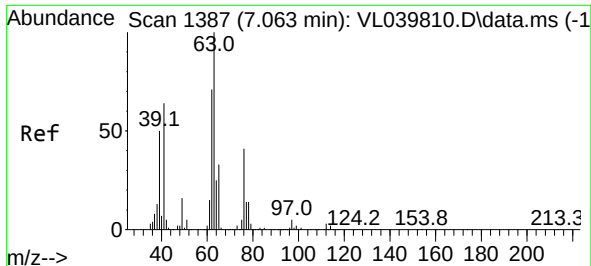
Tgt Ion: 43 Resp: 8784
Ion Ratio Lower Upper
43 100
72 0.0 17.5 26.3#



#36
Benzene
Concen: 0.052 ppbv
RT: 6.368 min Scan# 1171
Delta R.T. 0.006 min
Lab File: VL039880.D
Acq: 11 Nov 2022 1:47

Tgt Ion: 78 Resp: 10423
Ion Ratio Lower Upper
78 100
77 37.7 17.4 26.2#
50 19.3 13.9 20.9





#39

1,2-Dichloropropane

Concen: 7.990 ppbv

RT: 6.651 min Scan# 11

Delta R.T. -0.412 min

Lab File: VL039880.D

Acq: 11 Nov 2022 1:47

Instrument :

MSVOA_L

ClientSampleId :

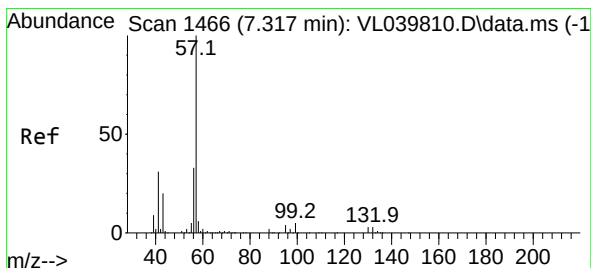
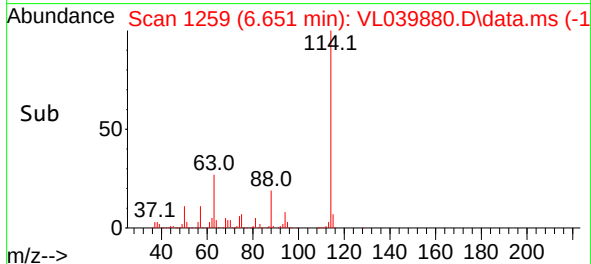
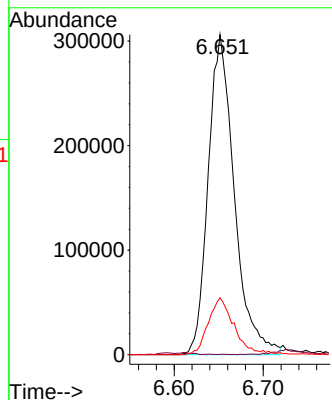
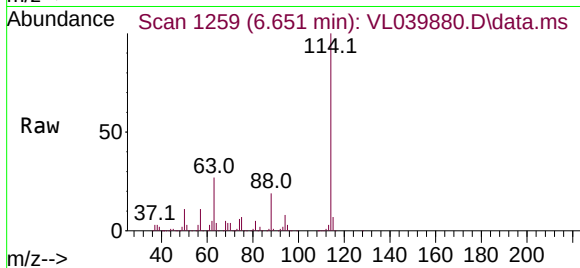
Tgt Ion: 63 Resp: 624027

Ion Ratio Lower Upper

63 100

41 0.0 51.0 76.4#

62 17.8 56.6 85.0#



#44

2,2,4-Trimethylpentane

Concen: 0.045 ppbv

RT: 7.323 min Scan# 1468

Delta R.T. 0.006 min

Lab File: VL039880.D

Acq: 11 Nov 2022 1:47

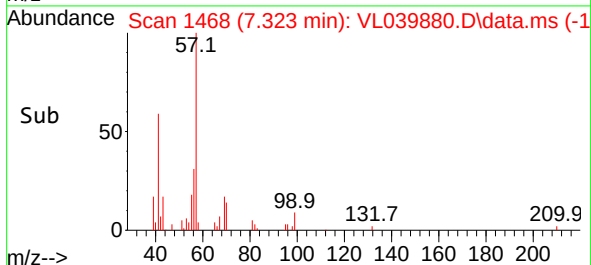
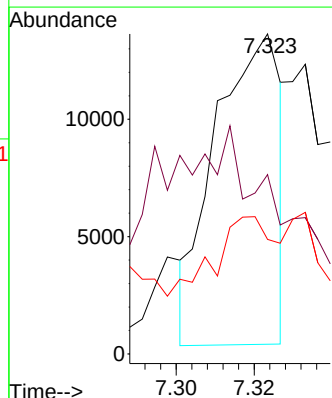
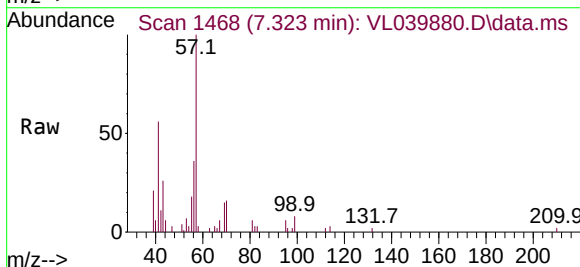
Tgt Ion: 57 Resp: 15384

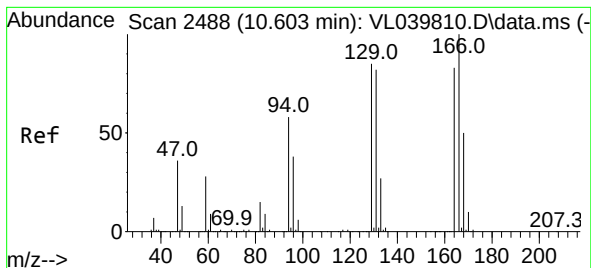
Ion Ratio Lower Upper

57 100

41 264.4 24.6 36.8#

56 0.0 25.4 38.0#





#52

Tetrachloroethene

Concen: 42.590 ppbv

RT: 10.613 min Scan# 2488

Delta R.T. 0.010 min

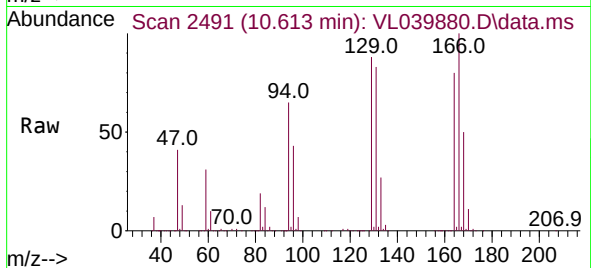
Lab File: VL039880.D

Acq: 11 Nov 2022 1:47

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:164 Resp: 3198585

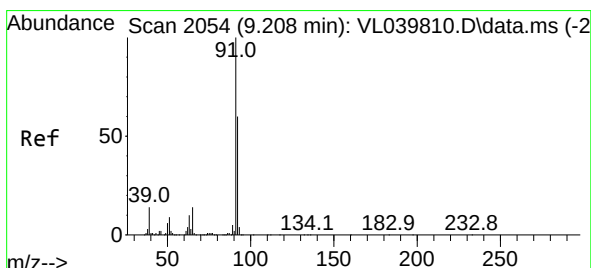
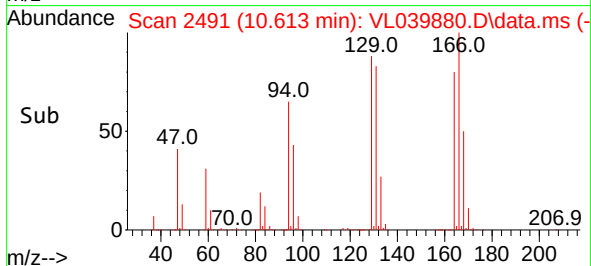
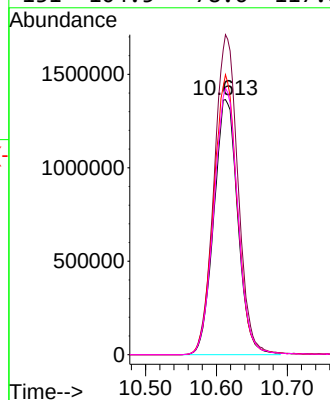
Ion Ratio Lower Upper

164 100

166 125.5 96.0 144.0

129 109.8 81.4 122.2

131 104.5 78.6 117.8



#53

Toluene

Concen: 0.387 ppbv

RT: 9.214 min Scan# 2056

Delta R.T. 0.006 min

Lab File: VL039880.D

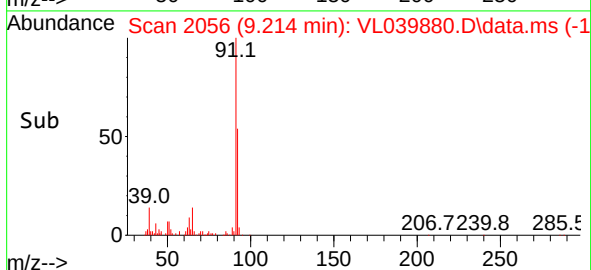
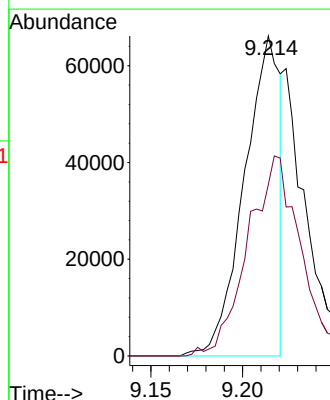
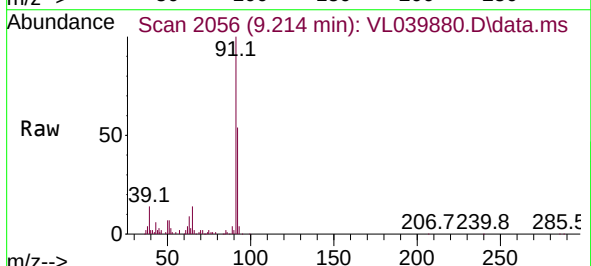
Acq: 11 Nov 2022 1:47

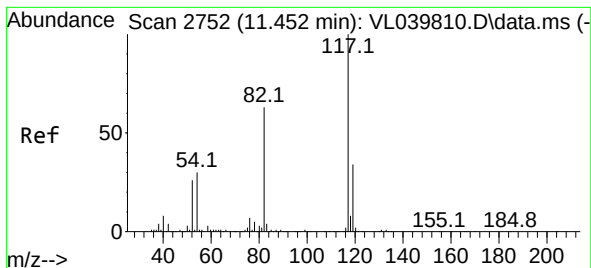
Tgt Ion: 91 Resp: 89032

Ion Ratio Lower Upper

91 100

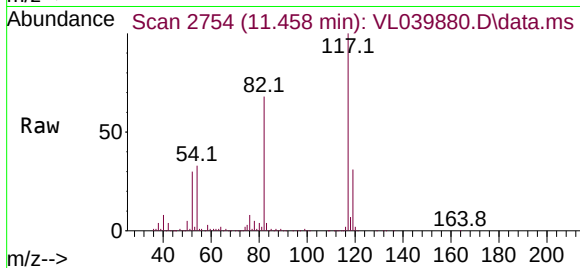
92 94.9 49.6 74.4#



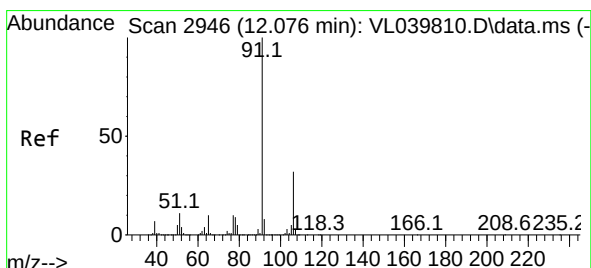
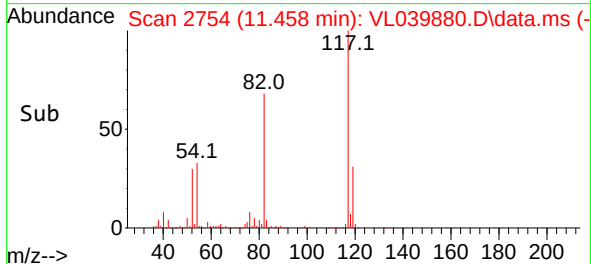
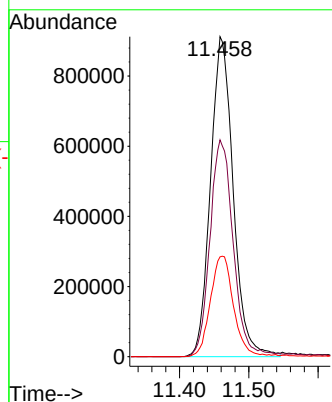


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.458 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL039880.D
Acq: 11 Nov 2022 1:47

Instrument :
MSVOA_L
ClientSampleId :

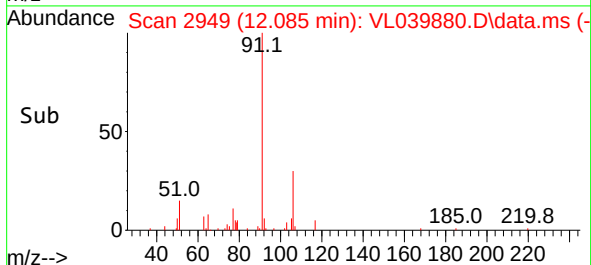
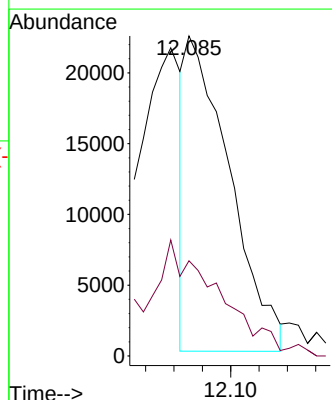
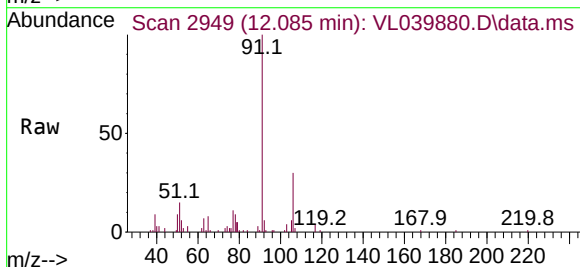


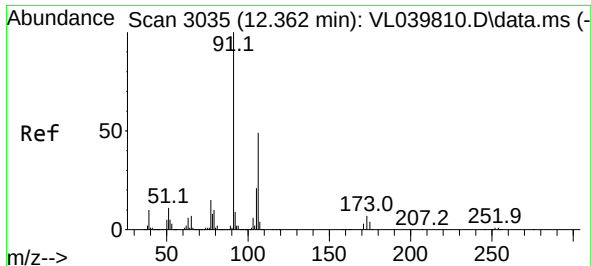
Tgt Ion:117 Resp: 2075624
Ion Ratio Lower Upper
117 100
82 70.3 51.0 76.6
119 32.6 24.7 37.1



#58
Ethyl Benzene
Concen: 0.086 ppbv
RT: 12.085 min Scan# 2949
Delta R.T. 0.010 min
Lab File: VL039880.D
Acq: 11 Nov 2022 1:47

Tgt Ion: 91 Resp: 24092
Ion Ratio Lower Upper
91 100
106 31.6 25.9 38.9





#59

m/p-Xylene

Concen: 0.121 ppbv

RT: 12.371 min Scan# 3035

Delta R.T. 0.010 min

Lab File: VL039880.D

Acq: 11 Nov 2022 1:47

Instrument :

MSVOA_L

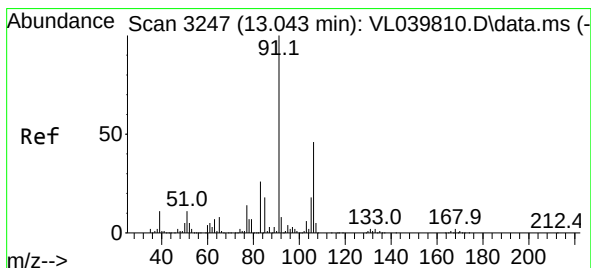
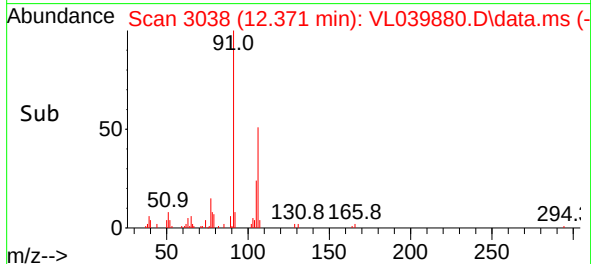
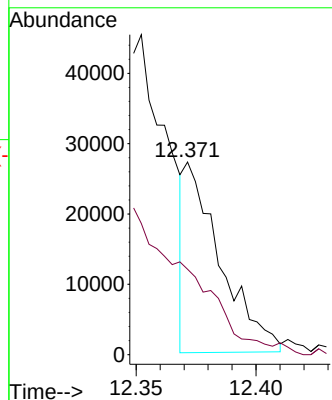
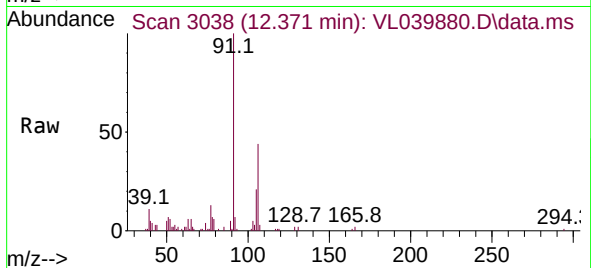
ClientSampleId :

Tgt Ion: 91 Resp: 28235

Ion Ratio Lower Upper

91 100

106 0.0 37.6 56.4#



#60

o-Xylene

Concen: 0.210 ppbv

RT: 13.050 min Scan# 3249

Delta R.T. 0.006 min

Lab File: VL039880.D

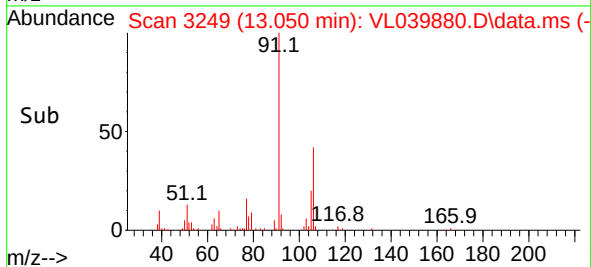
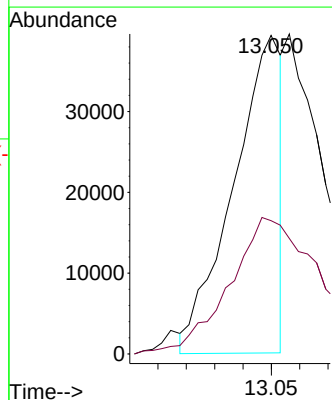
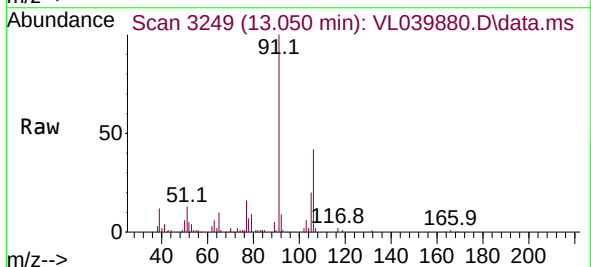
Acq: 11 Nov 2022 1:47

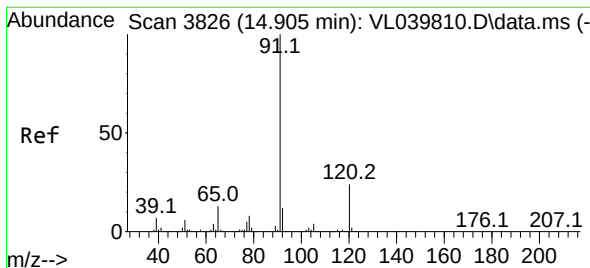
Tgt Ion: 91 Resp: 46508

Ion Ratio Lower Upper

91 100

106 82.1 23.6 70.8#

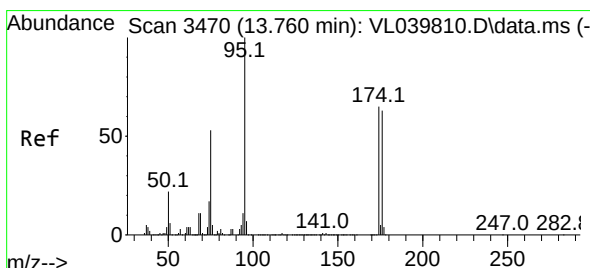
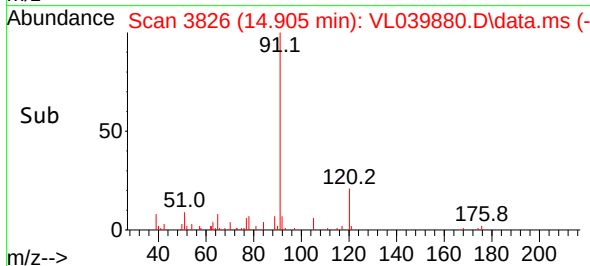
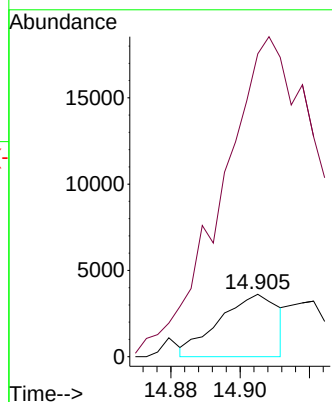
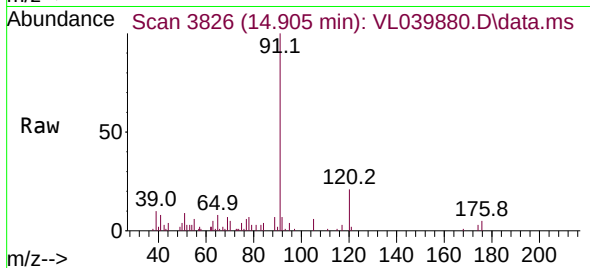




#64
n-propylbenzene
Concen: 0.049 ppbv
RT: 14.905 min Scan# 3826
Delta R.T. 0.000 min
Lab File: VL039880.D
Acq: 11 Nov 2022 1:47

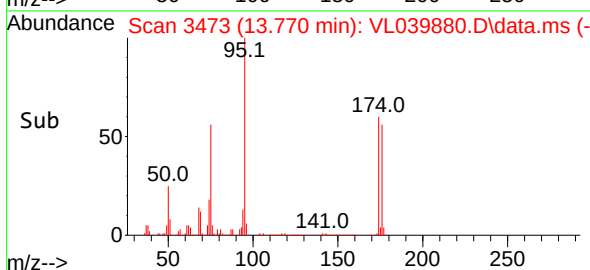
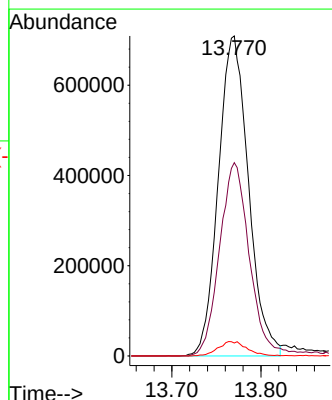
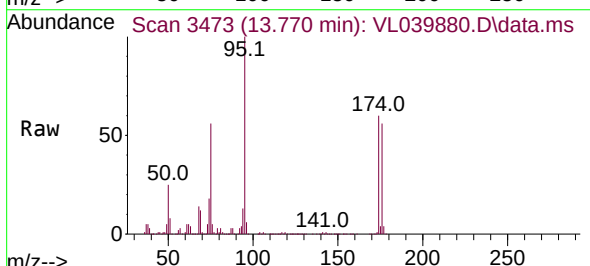
Instrument :
MSVOA_L
ClientSampleId :

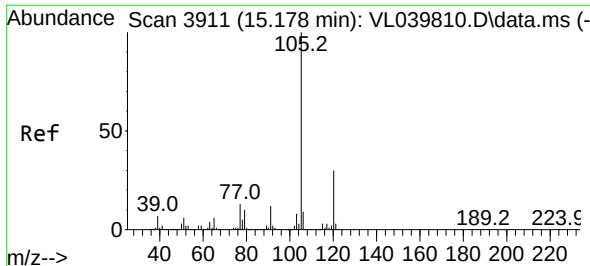
Tgt Ion:120 Resp: 4272
Ion Ratio Lower Upper
120 100
91 998.2 354.9 532.3#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.721 ppbv
RT: 13.770 min Scan# 3473
Delta R.T. 0.010 min
Lab File: VL039880.D
Acq: 11 Nov 2022 1:47

Tgt Ion: 95 Resp: 1665587
Ion Ratio Lower Upper
95 100
174 62.6 53.4 80.0
175 4.5 4.1 6.1

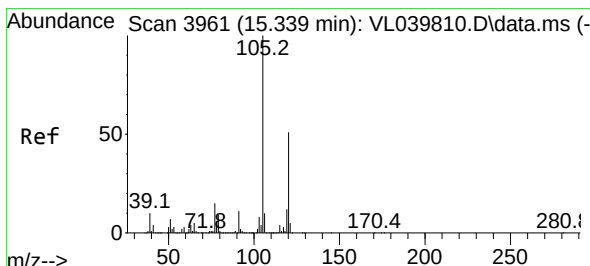
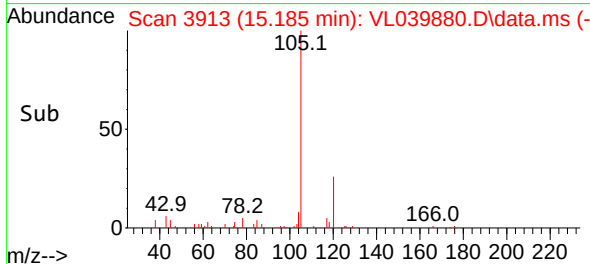
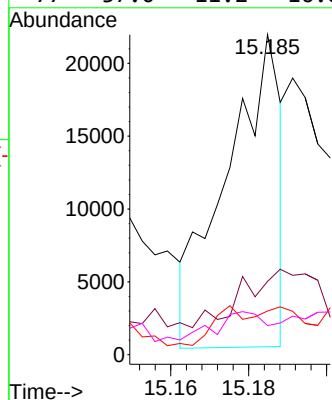
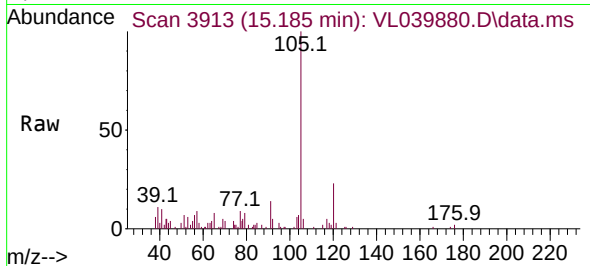




#72
4-Ethyltoluene
Concen: 0.083 ppbv
RT: 15.185 min Scan# 3911
Delta R.T. 0.006 min
Lab File: VL039880.D
Acq: 11 Nov 2022 1:47

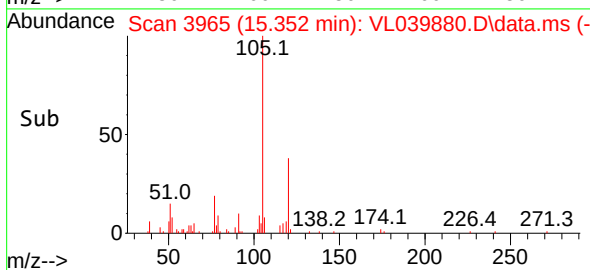
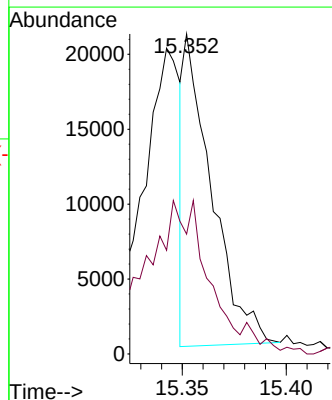
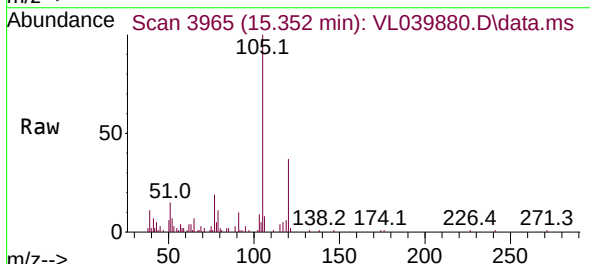
Instrument :
MSVOA_L
ClientSampleId :

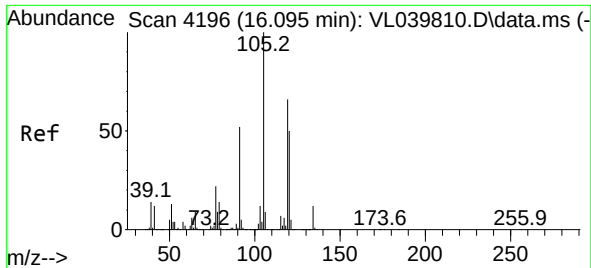
Tgt Ion:105 Resp: 20725
Ion Ratio Lower Upper
105 100
120 0.0 26.0 39.0#
91 37.2 10.5 15.7#
77 37.0 11.2 16.8#



#73
1,3,5-Trimethylbenzene
Concen: 0.087 ppbv
RT: 15.352 min Scan# 3965
Delta R.T. 0.013 min
Lab File: VL039880.D
Acq: 11 Nov 2022 1:47

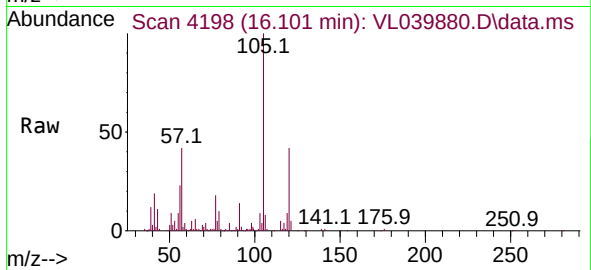
Tgt Ion:105 Resp: 19362
Ion Ratio Lower Upper
105 100
120 37.6 41.0 61.4#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.812 ppbv
 RT: 16.101 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL039880.D
 Acq: 11 Nov 2022 1:47

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion:	105	Resp:	191223
Ion	Ratio	Lower	Upper
105	100		
120	41.6	40.2	60.4
91	14.0	42.6	64.0#
77	17.1	17.8	26.8#

