

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092122\
 Data File : VL039658.D
 Acq On : 22 Sep 2022 6:12
 Operator : SY/AP
 Sample : N4669-09DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0PG1DL

Quant Time: Sep 22 08:28:05 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Sep 19 14:26:28 2022
 Response via : Initial Calibration

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

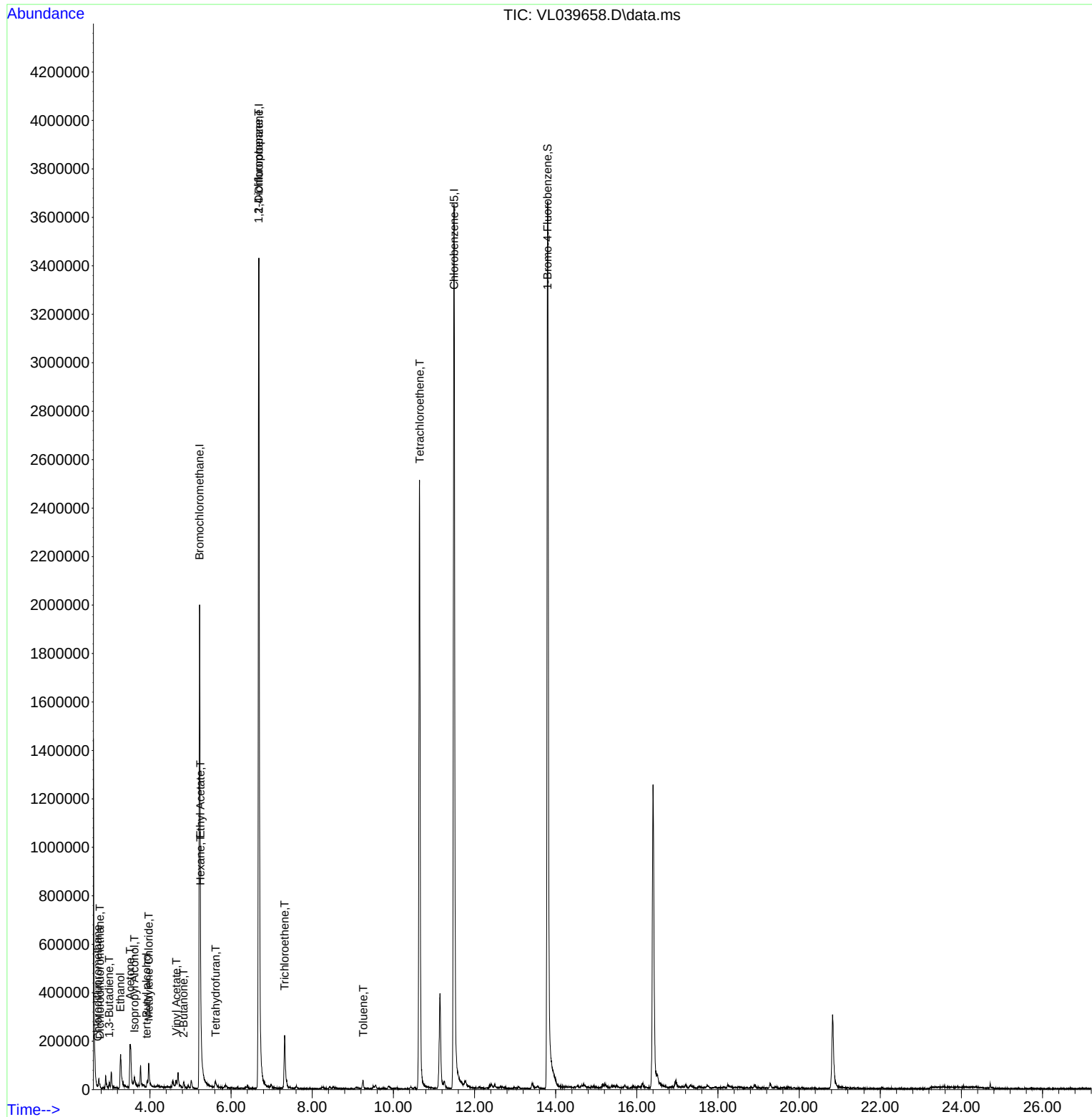
Internal Standards						
1) Bromochloromethane	5.224	49	1079116	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.684	114	2706041	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.494	117	2444601	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.802	95	1838700	10.076	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.768	85	5666	0.045	ppbv #	88
3) Chlorodifluoromethane	2.716	51	7065	0.055	ppbv #	80
13) Ethanol	3.272	45	89539	20.092	ppbv #	23
15) Acetone	3.510	43	217938	1.815	ppbv	98
16) 1,3-Butadiene	2.999	39	7366	0.121	ppbv #	13
17) tert-Butyl alcohol	3.922	59	4778	0.044	ppbv #	71
19) Isopropyl Alcohol	3.616	45	14504	0.237	ppbv #	88
20) Methylene Chloride	3.967	84	30017	0.541	ppbv	85
23) Vinyl Acetate	4.652	43	2329	0.043	ppbv #	1
25) Ethyl Acetate	5.243	43	13140	0.050	ppbv #	76
26) Hexane	5.247	57	17232	0.155	ppbv #	54
34) 2-Butanone	4.829	43	12081	0.091	ppbv #	53
38) Trichloroethene	7.320	130	71085	0.636	ppbv	91
39) 1,2-Dichloropropane	6.681	63	660261	8.265	ppbv #	24
41) Tetrahydrofuran	5.619	42	7541	0.092	ppbv #	56
52) Tetrachloroethene	10.648	164	645697	8.181	ppbv	92
53) Toluene	9.256	91	17300	0.075	ppbv	88

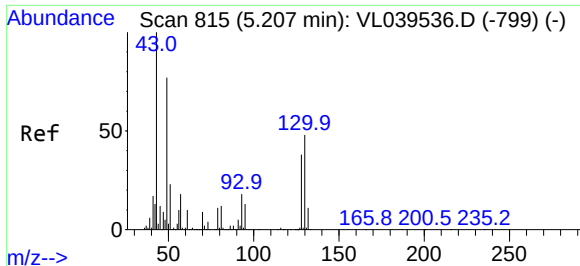
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 400mL/MSVOA_L
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C0PG1DL

Quant Time: Sep 22 08:28:05 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091922AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Mon Sep 19 14:26:28 2022
Response via : Initial Calibration

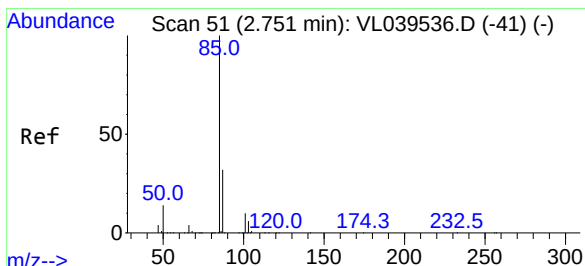
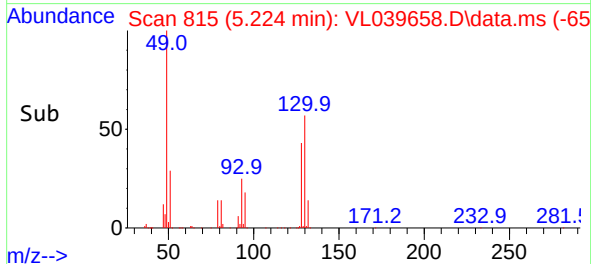
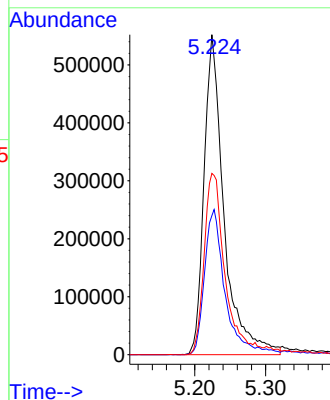
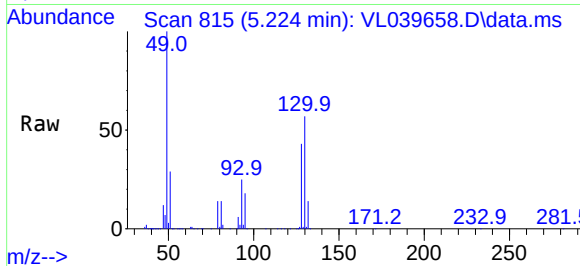




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.224 min Scan# 81
 Delta R.T. 0.017 min
 Lab File: VL039658.D
 Acq: 22 Sep 2022 6:12

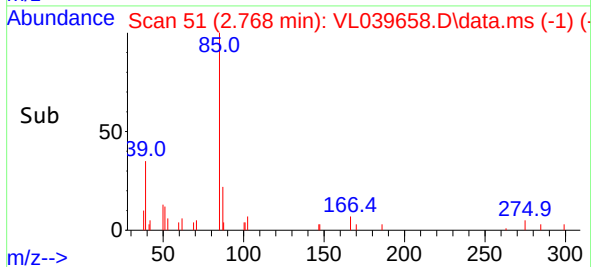
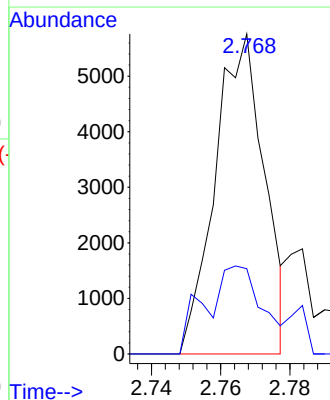
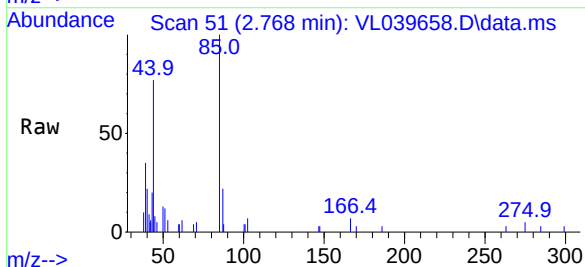
Instrument :
 MSVOA_L
 ClientSampleId :
 C0PG1DL

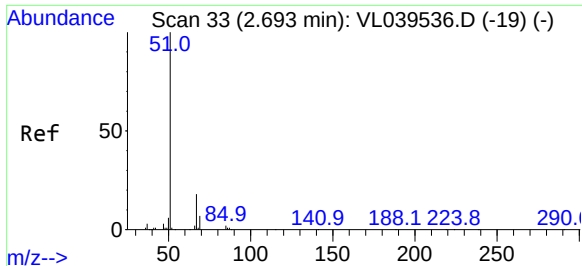
Tgt Ion: 49 Resp: 1079116
 Ion Ratio Lower Upper
 49 100
 128 48.6 26.7 80.0
 130 62.4 34.3 102.8



#2
 Dichlorodifluoromethane
 Concen: 0.045 ppbv
 RT: 2.768 min Scan# 51
 Delta R.T. 0.017 min
 Lab File: VL039658.D
 Acq: 22 Sep 2022 6:12

Tgt Ion: 85 Resp: 5666
 Ion Ratio Lower Upper
 85 100
 87 26.6 26.7 40.1#

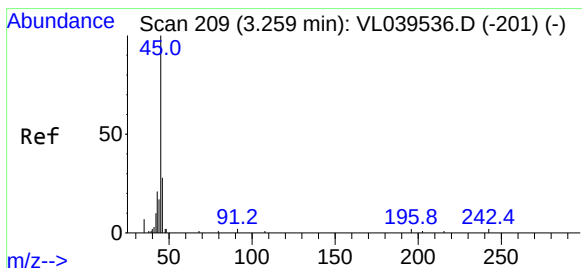
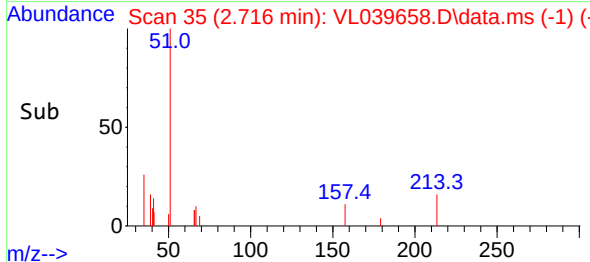
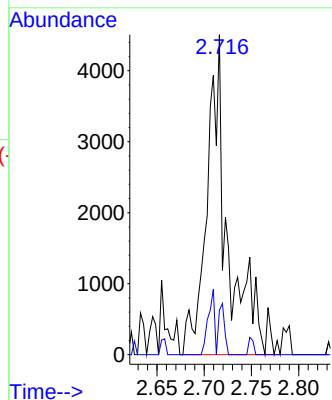
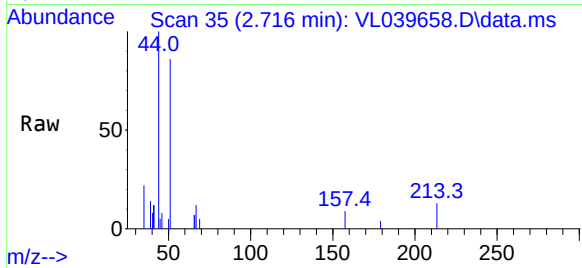




#3
Chlorodifluoromethane
Concen: 0.055 ppbv
RT: 2.716 min Scan# 31
Delta R.T. 0.023 min
Lab File: VL039658.D
Acq: 22 Sep 2022 6:12

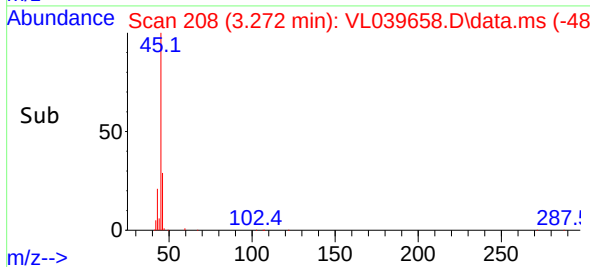
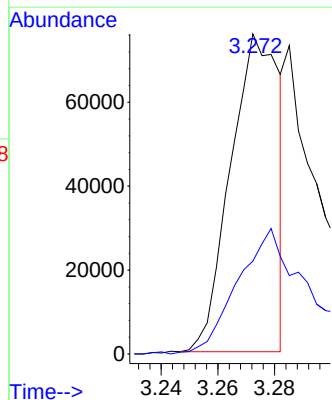
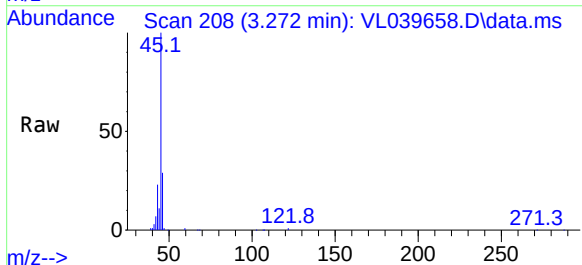
Instrument :
MSVOA_L
ClientSampleId :
C0PG1DL

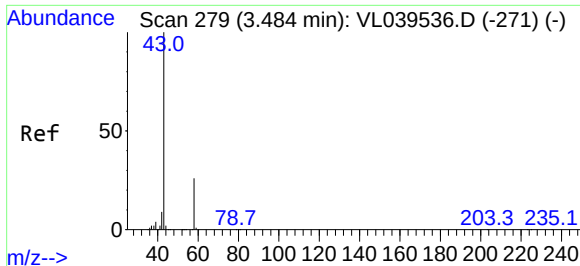
Tgt Ion: 51 Resp: 7065
Ion Ratio Lower Upper
51 100
67 10.4 15.7 23.5#



#13
Ethanol
Concen: 20.092 ppbv
RT: 3.272 min Scan# 208
Delta R.T. 0.014 min
Lab File: VL039658.D
Acq: 22 Sep 2022 6:12

Tgt Ion: 45 Resp: 89539
Ion Ratio Lower Upper
45 100
46 0.0 22.8 91.2#





#15

Acetone

Concen: 1.815 ppbv

RT: 3.510 min Scan# 21

Delta R.T. 0.026 min

Lab File: VL039658.D

Acq: 22 Sep 2022 6:12

Instrument :

MSVOA_L

ClientSampleId :

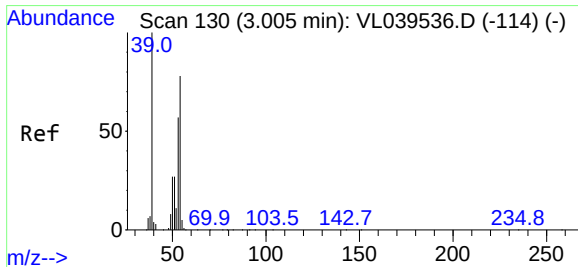
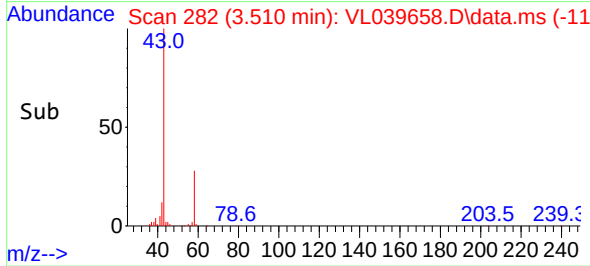
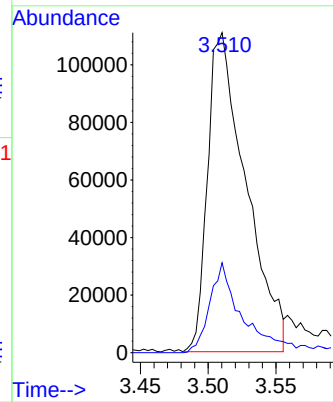
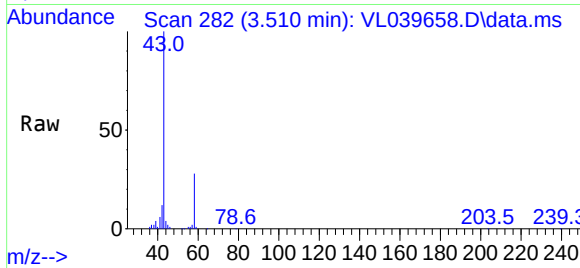
C0PG1DL

Tgt Ion: 43 Resp: 217938

Ion Ratio Lower Upper

43 100

58 27.4 21.0 31.6



#16

1,3-Butadiene

Concen: 0.121 ppbv

RT: 2.999 min Scan# 123

Delta R.T. -0.006 min

Lab File: VL039658.D

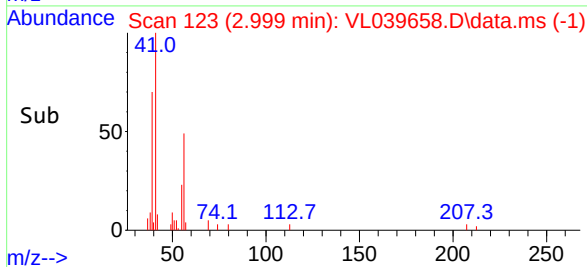
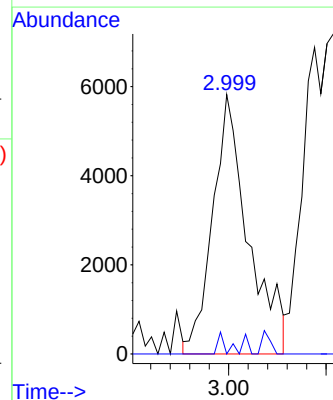
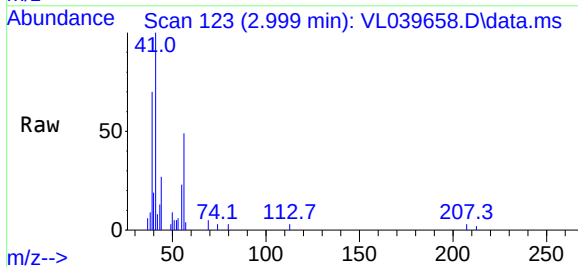
Acq: 22 Sep 2022 6:12

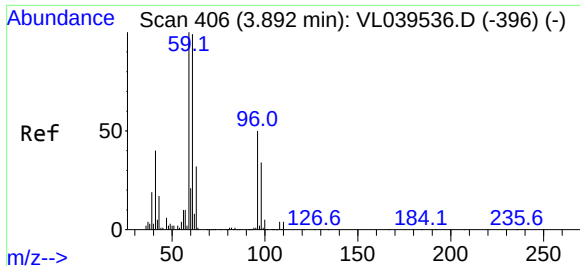
Tgt Ion: 39 Resp: 7366

Ion Ratio Lower Upper

39 100

54 3.1 63.7 95.5#

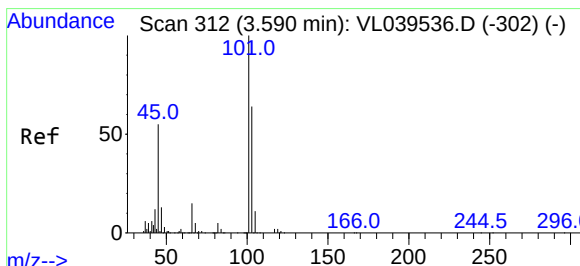
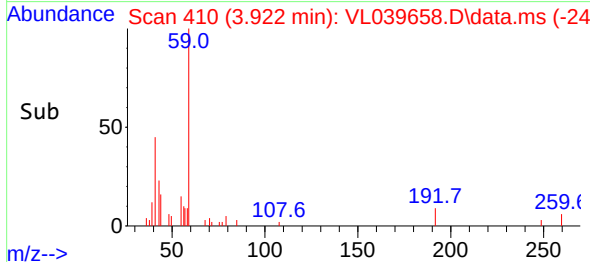
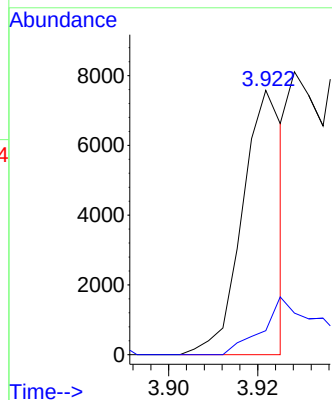
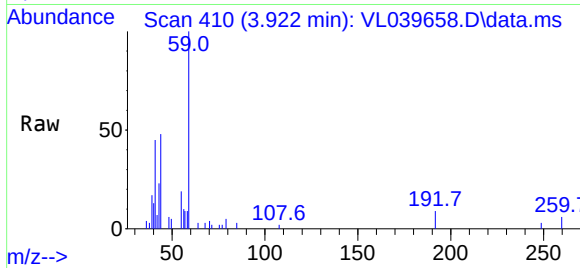




#17
tert-Butyl alcohol
Concen: 0.044 ppbv
RT: 3.922 min Scan# 410
Delta R.T. 0.030 min
Lab File: VL039658.D
Acq: 22 Sep 2022 6:12

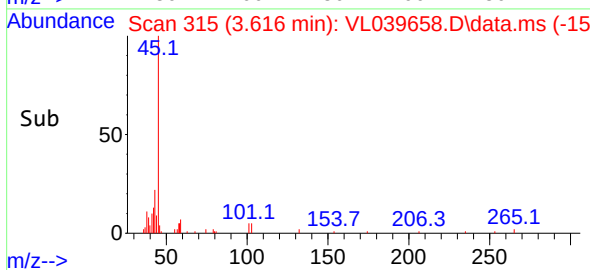
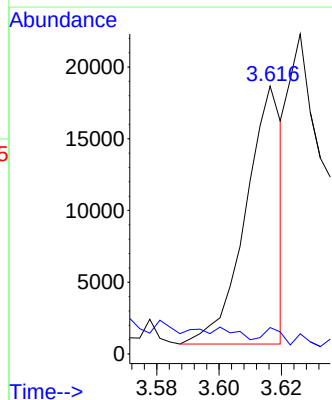
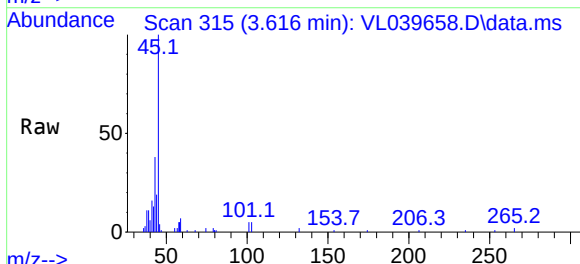
Instrument :
MSVOA_1
ClientSampleId :
C0PG1DL

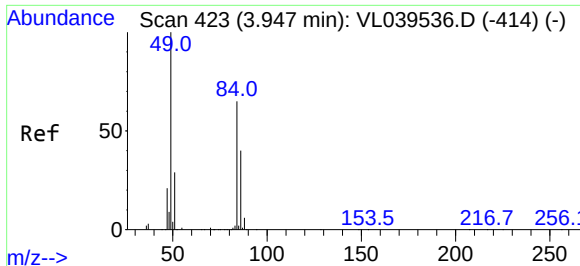
Tgt Ion: 59 Resp: 4778
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#



#19
Isopropyl Alcohol
Concen: 0.237 ppbv
RT: 3.616 min Scan# 315
Delta R.T. 0.026 min
Lab File: VL039658.D
Acq: 22 Sep 2022 6:12

Tgt Ion: 45 Resp: 14504
Ion Ratio Lower Upper
45 100
58 0.0 3.2 4.8#



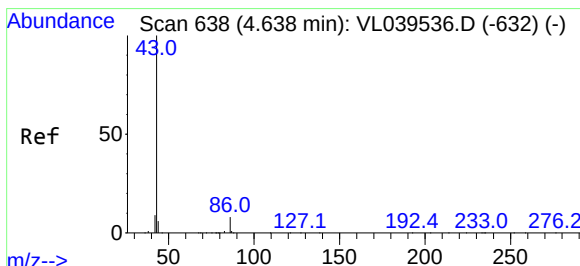
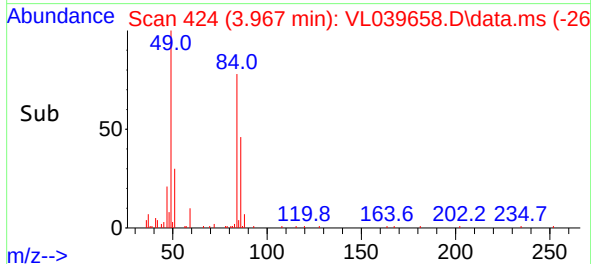
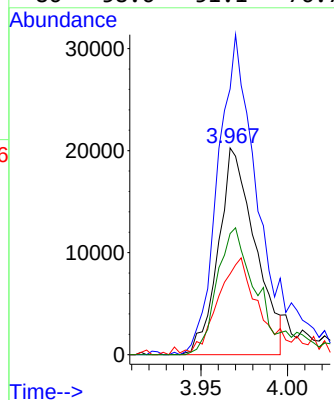
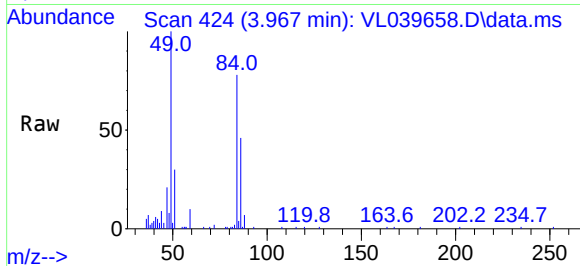


#20
Methylene Chloride
Concen: 0.541 ppbv
RT: 3.967 min Scan# 41
Delta R.T. 0.020 min
Lab File: VL039658.D
Acq: 22 Sep 2022 6:12

Instrument :
MSVOA_1
ClientSampleId :
C0PG1DL

Tgt Ion: 84 Resp: 30017

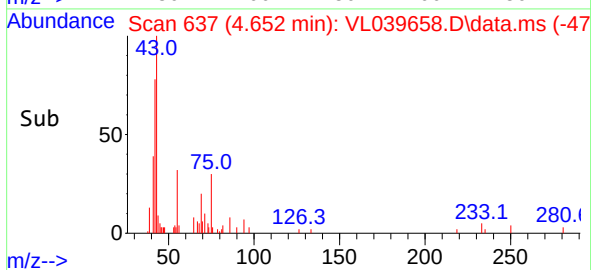
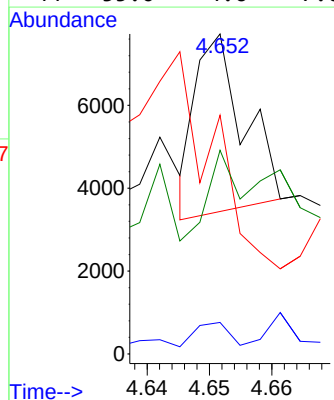
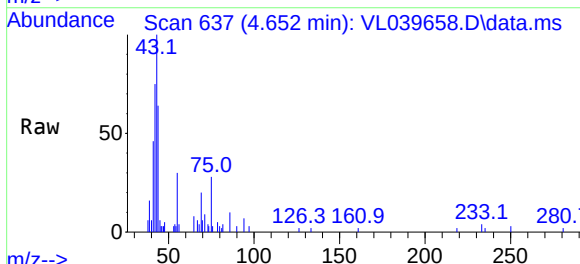
Ion	Ratio	Lower	Upper
84	100		
49	128.5	123.1	184.7
51	38.2	34.4	51.6
86	58.6	51.1	76.7

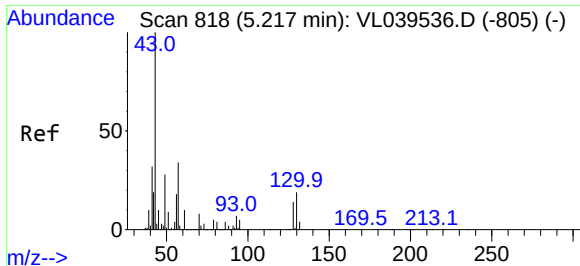


#23
Vinyl Acetate
Concen: 0.043 ppbv
RT: 4.652 min Scan# 637
Delta R.T. 0.014 min
Lab File: VL039658.D
Acq: 22 Sep 2022 6:12

Tgt Ion: 43 Resp: 2329

Ion	Ratio	Lower	Upper
43	100		
86	14.7	5.0	7.6#
42	93.2	7.7	11.5#
44	55.0	4.6	7.0#





#25

Ethyl Acetate

Concen: 0.050 ppbv

RT: 5.243 min Scan# 81

Delta R.T. 0.026 min

Lab File: VL039658.D

Acq: 22 Sep 2022 6:12

Instrument :

MSVOA_L

ClientSampleId :

C0PG1DL

Tgt Ion: 43 Resp: 13140

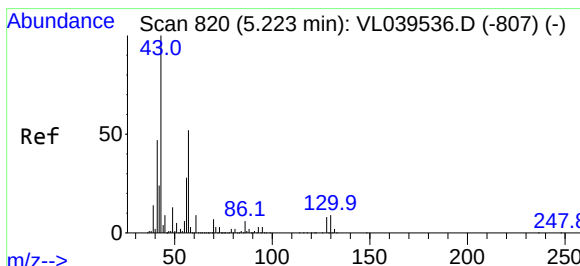
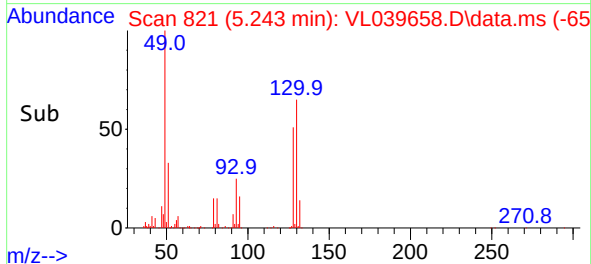
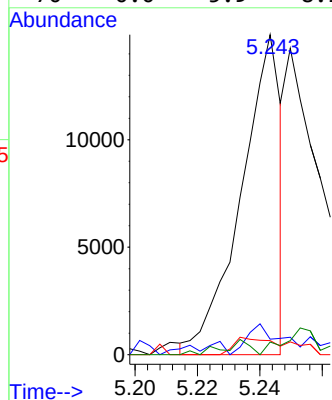
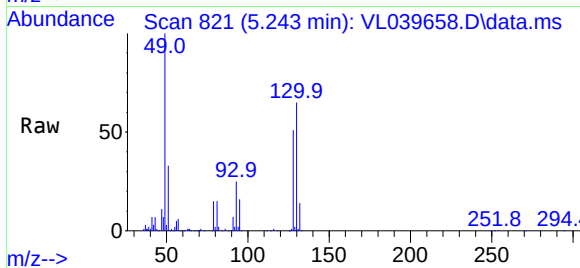
Ion Ratio Lower Upper

43 100

45 18.3 8.2 12.4#

61 0.0 8.3 12.5#

70 0.0 5.9 8.9#



#26

Hexane

Concen: 0.155 ppbv

RT: 5.247 min Scan# 822

Delta R.T. 0.023 min

Lab File: VL039658.D

Acq: 22 Sep 2022 6:12

Tgt Ion: 57 Resp: 17232

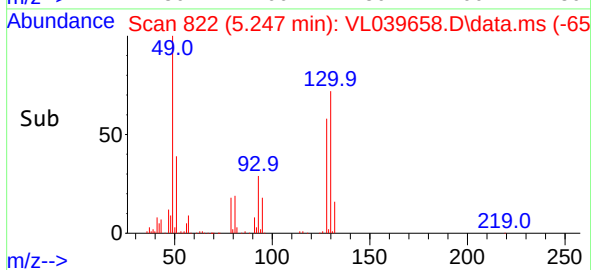
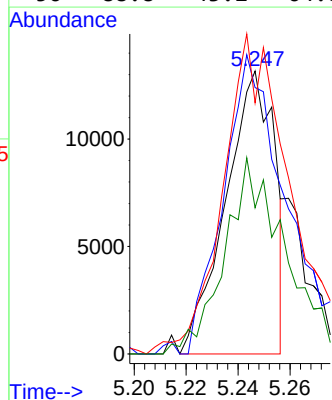
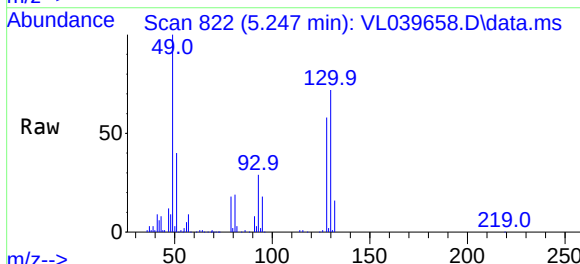
Ion Ratio Lower Upper

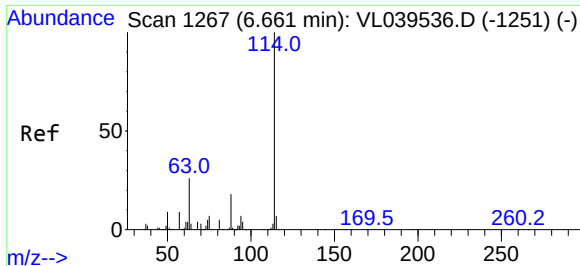
57 100

41 150.6 76.9 115.3#

43 168.1 191.0 286.6#

56 88.8 43.2 64.8#

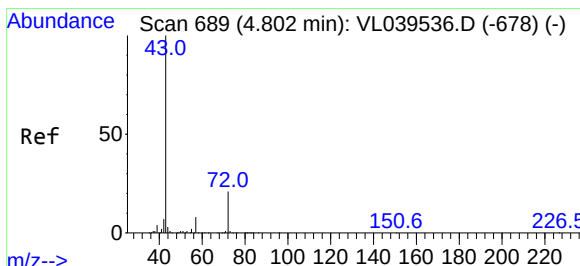
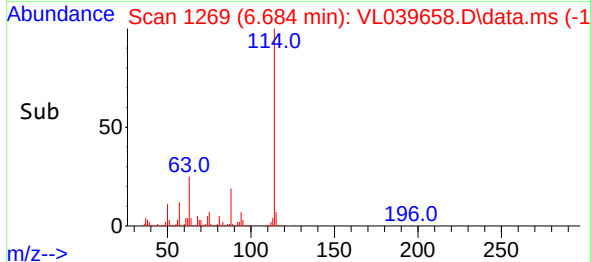
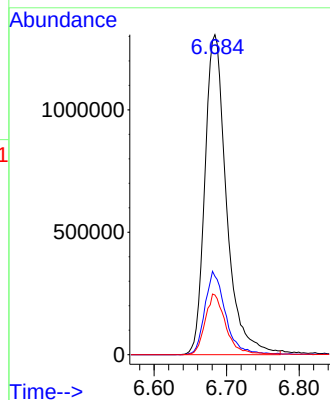
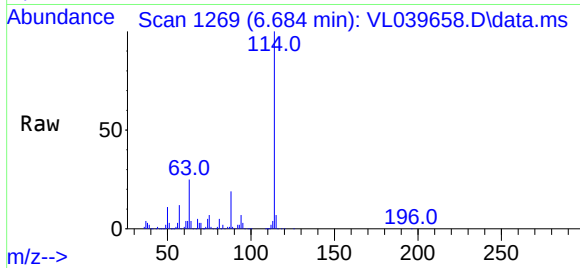




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.684 min Scan# 11
Delta R.T. 0.023 min
Lab File: VL039658.D
Acq: 22 Sep 2022 6:12

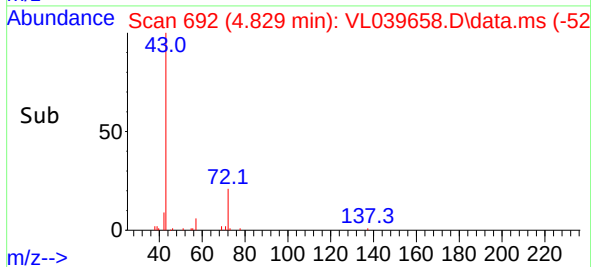
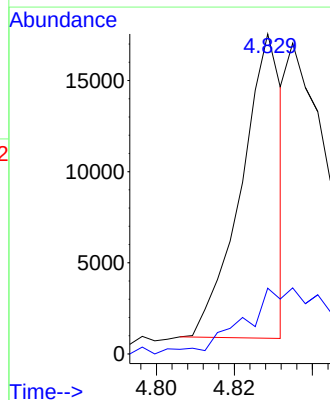
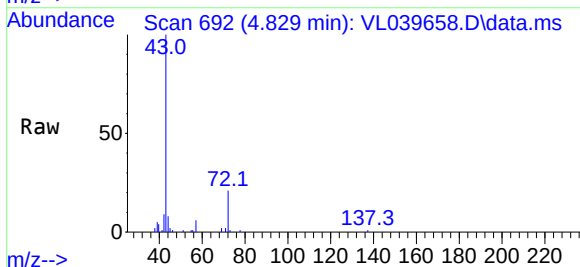
Instrument :
MSVOA_L
ClientSampleId :
C0PG1DL

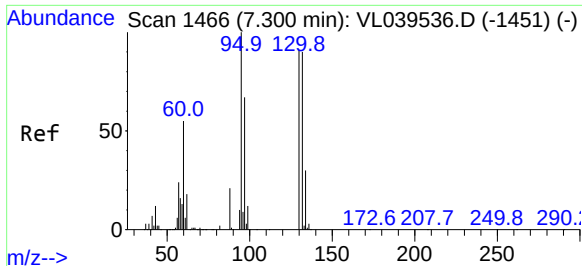
Tgt Ion:114 Resp: 2706041
Ion Ratio Lower Upper
114 100
63 25.3 20.2 30.4
88 18.3 14.5 21.7



#34
2-Butanone
Concen: 0.091 ppbv
RT: 4.829 min Scan# 692
Delta R.T. 0.026 min
Lab File: VL039658.D
Acq: 22 Sep 2022 6:12

Tgt Ion: 43 Resp: 12081
Ion Ratio Lower Upper
43 100
72 0.0 17.9 26.9#

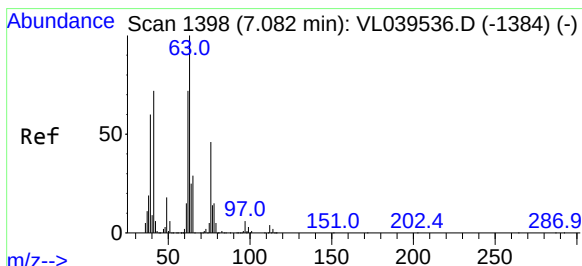
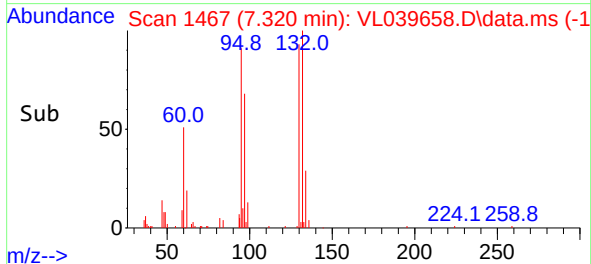
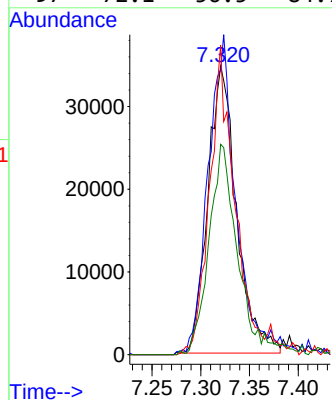
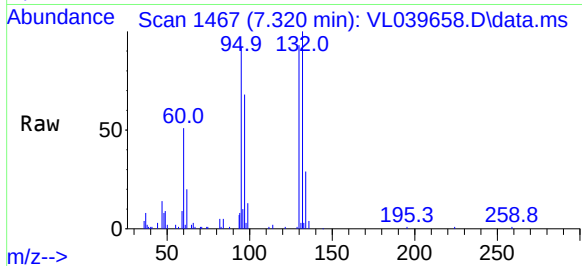




#38
Trichloroethene
Concen: 0.636 ppbv
RT: 7.320 min Scan# 1466
Delta R.T. 0.020 min
Lab File: VL039658.D
Acq: 22 Sep 2022 6:12

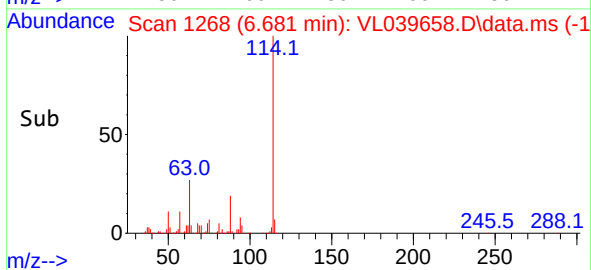
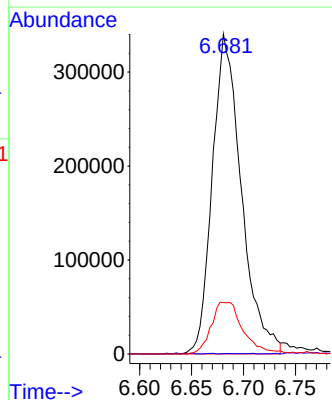
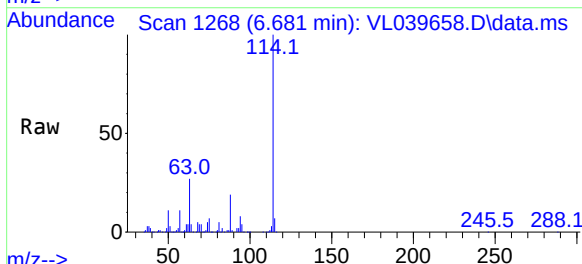
Instrument :
MSVOA_L
ClientSampleId :
C0PG1DL

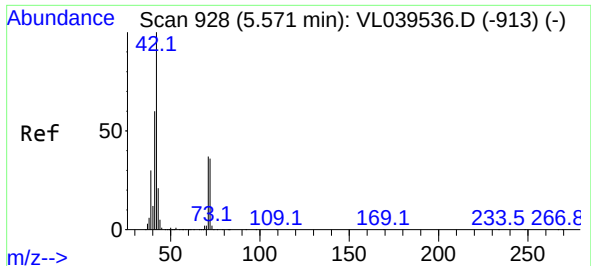
Tgt Ion:	130	Resp:	71085
Ion Ratio	Lower	Upper	
130	100		
95	98.2	87.3	130.9
132	107.5	76.7	115.1
97	72.1	56.5	84.7



#39
1,2-Dichloropropane
Concen: 8.265 ppbv
RT: 6.681 min Scan# 1268
Delta R.T. -0.401 min
Lab File: VL039658.D
Acq: 22 Sep 2022 6:12

Tgt Ion:	63	Resp:	660261
Ion Ratio	Lower	Upper	
63	100		
41	0.1	59.6	89.4#
62	16.1	51.4	77.0#

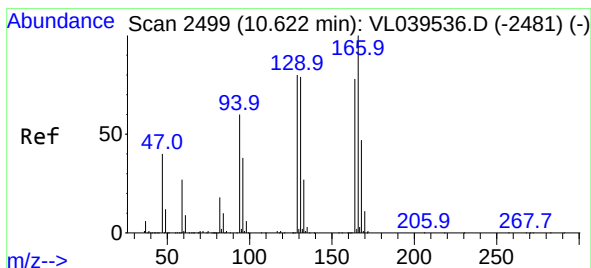
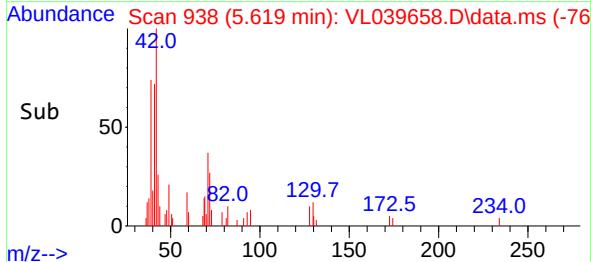
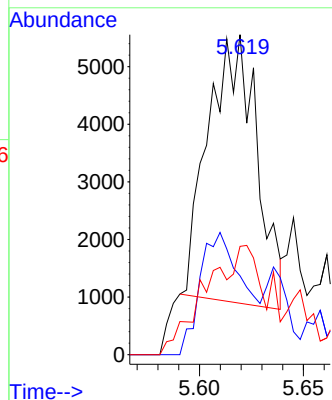
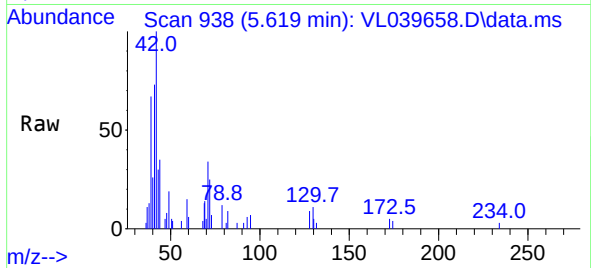




#41
Tetrahydrofuran
Concen: 0.092 ppbv
RT: 5.619 min Scan# 91
Delta R.T. 0.049 min
Lab File: VL039658.D
Acq: 22 Sep 2022 6:12

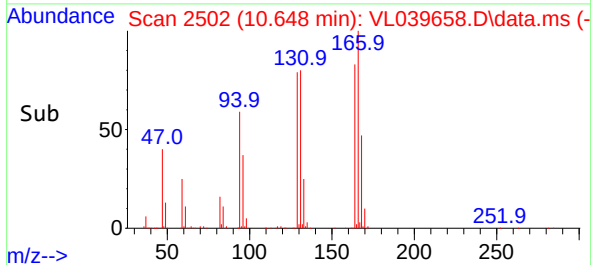
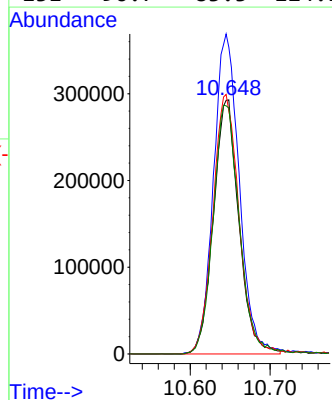
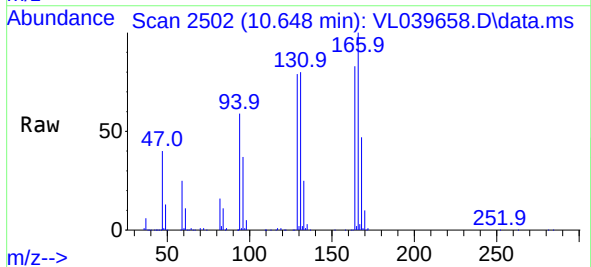
Instrument :
MSVOA_L
ClientSampleId :
C0PG1DL

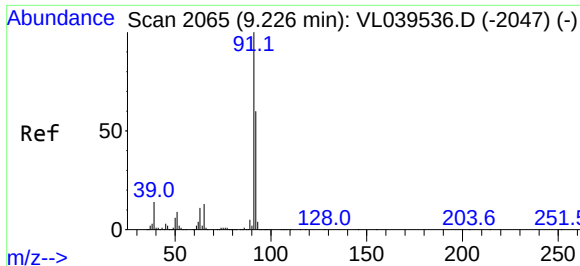
Tgt Ion: 42	Resp: 7541
Ion Ratio	Lower Upper
42 100	
72 67.5	31.8 47.8#
71 66.1	31.8 47.8#



#52
Tetrachloroethene
Concen: 8.181 ppbv
RT: 10.648 min Scan# 2502
Delta R.T. 0.026 min
Lab File: VL039658.D
Acq: 22 Sep 2022 6:12

Tgt Ion: 164	Resp: 645697
Ion Ratio	Lower Upper
164 100	
166 120.7	102.2 153.2
129 95.4	85.8 128.8
131 96.7	83.3 124.9

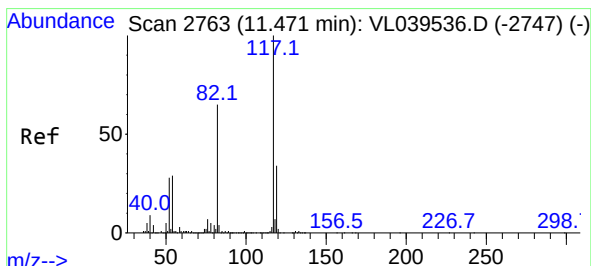
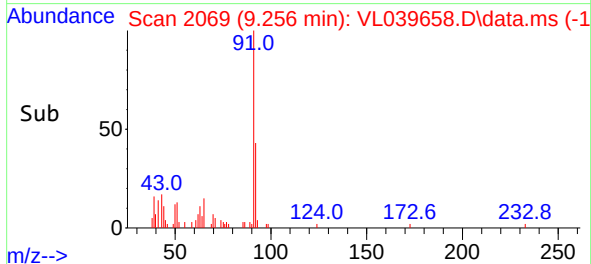
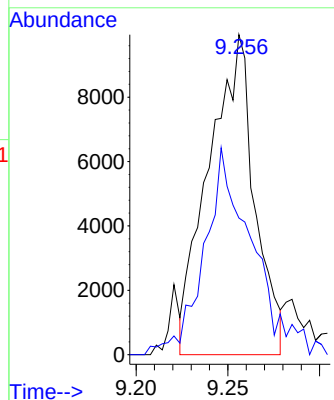
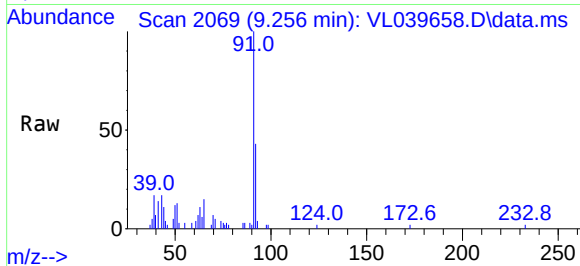




#53
Toluene
Concen: 0.075 ppbv
RT: 9.256 min Scan# 2065
Delta R.T. 0.030 min
Lab File: VL039658.D
Acq: 22 Sep 2022 6:12

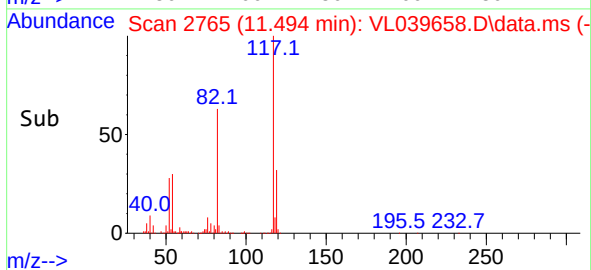
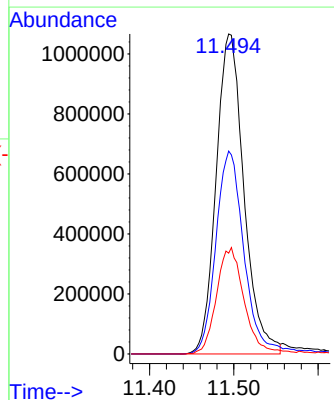
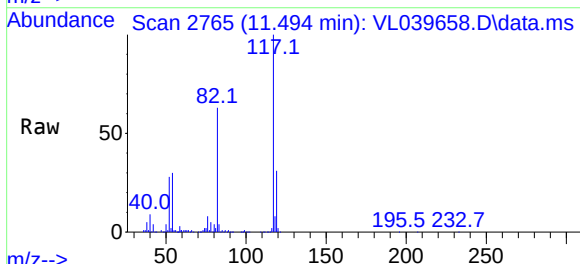
Instrument :
MSVOA_L
ClientSampleId :
C0PG1DL

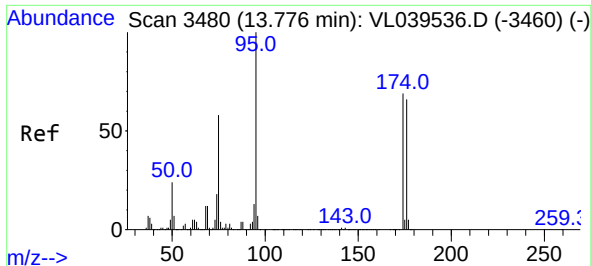
Tgt Ion: 91 Resp: 17300
Ion Ratio Lower Upper
91 100
92 69.6 48.2 72.2



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.494 min Scan# 2765
Delta R.T. 0.023 min
Lab File: VL039658.D
Acq: 22 Sep 2022 6:12

Tgt Ion: 117 Resp: 2444601
Ion Ratio Lower Upper
117 100
82 64.8 50.8 76.2
119 33.8 24.1 36.1





#68

1-Bromo-4-Fluorobenzene

Concen: 10.076 ppbv

RT: 13.802 min Scan# 34

Delta R.T. 0.026 min

Lab File: VL039658.D

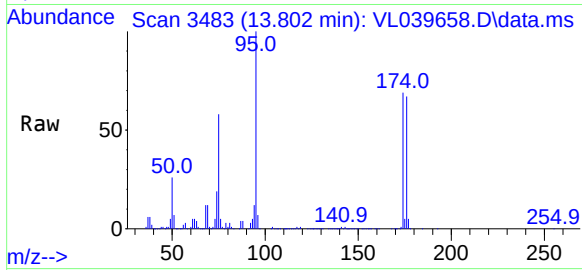
Acq: 22 Sep 2022 6:12

Instrument :

MSVOA_L

ClientSampleId :

C0PG1DL



Tgt Ion: 95 Resp: 1838700

Ion Ratio Lower Upper

95 100

174 72.3 55.9 83.9

175 5.4 4.2 6.4

