

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 :

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)

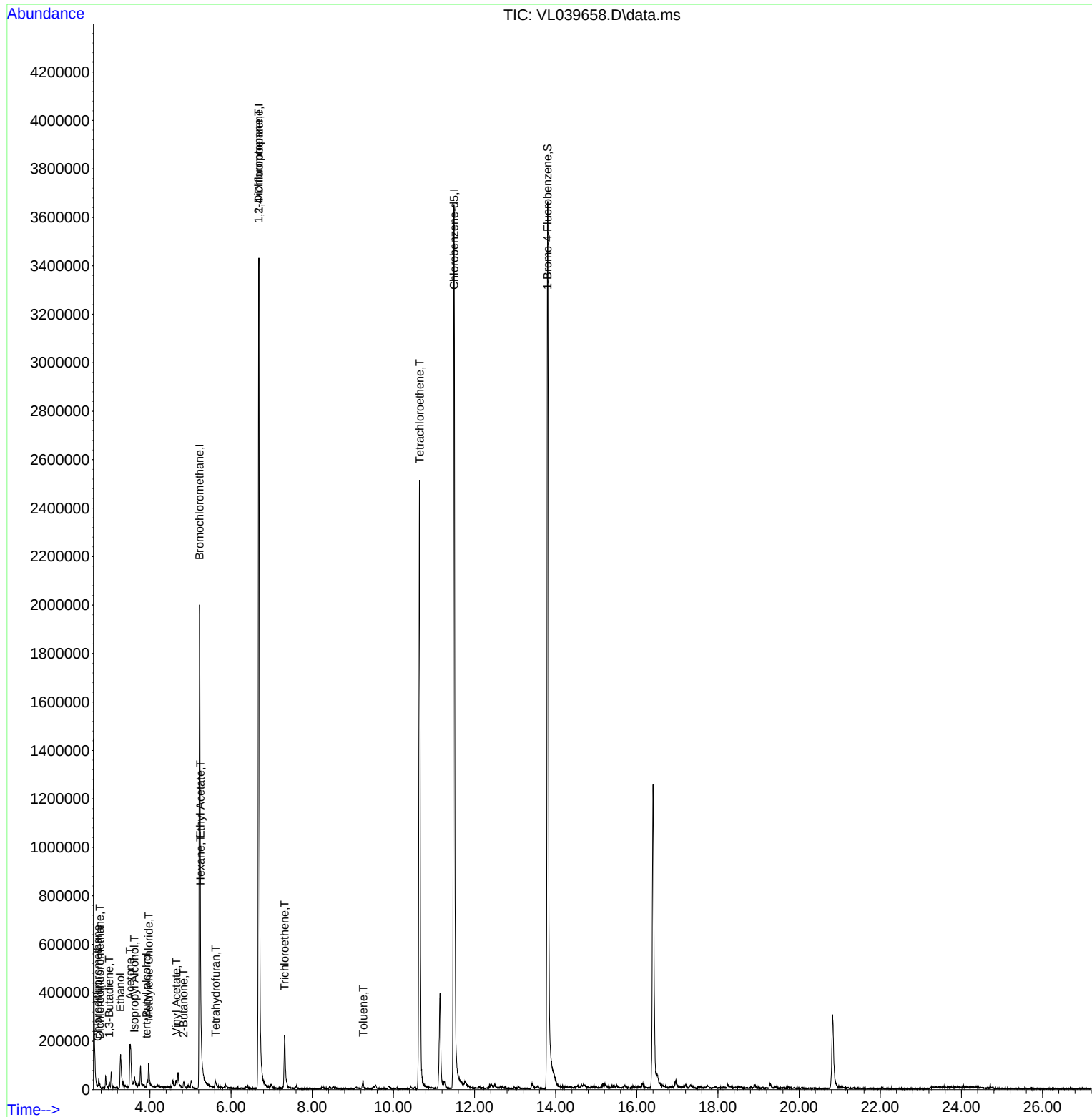
Internal Standards							
1) Bromochloromethane		5.224	49	1079116	10.000	ppbv	0.02
33) 1,4-Difluorobenzene		6.684	114	2706041	10.000	ppbv	0.02
55) Chlorobenzene-d5		11.494	117	2444601	10.000	ppbv	0.02
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		13.802	95	1838700	10.076	ppbv	0.03
Spiked 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

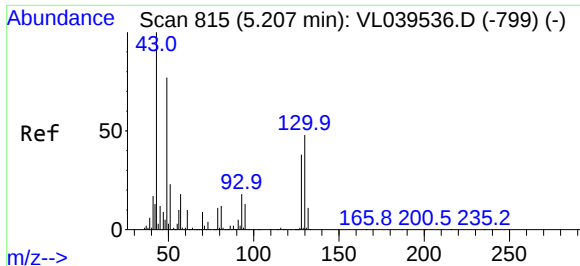
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

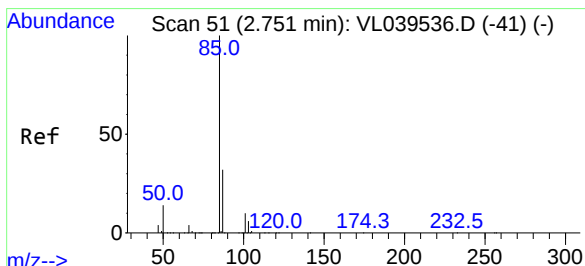
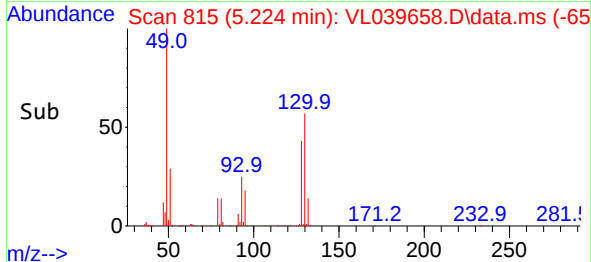
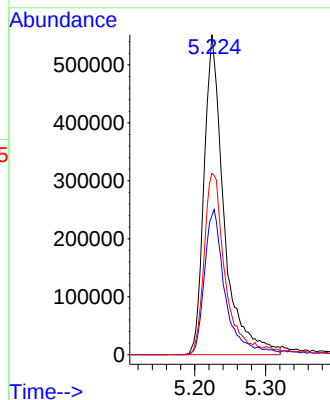
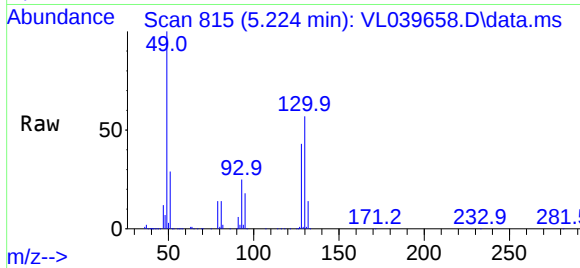




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.224 min Scan# 81
Delta R.T. 0.017 min
Lab File: VL039658.D
Acq: 22 Sep 2022 6:12

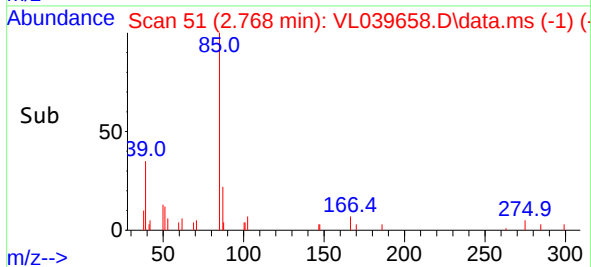
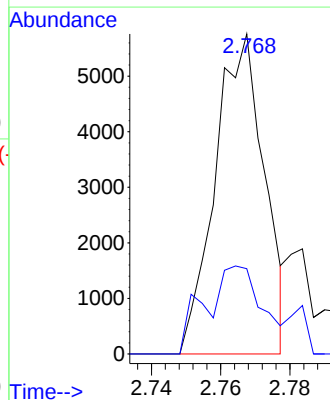
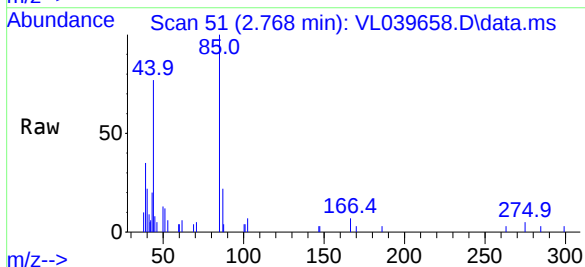
Instrument :
MSVOA_L
ClientSampleId :

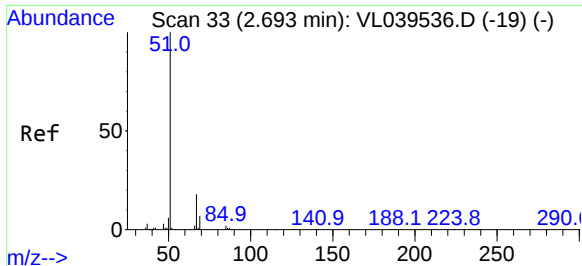
Tgt Ion: 49 Resp: 1079116
Ion Ratio Lower Upper
49 100
128 48.6 26.7 80.0
130 62.4 34.3 102.8



#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#

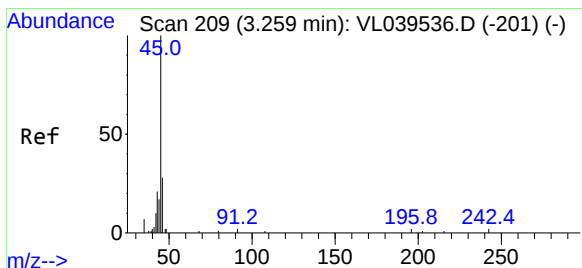
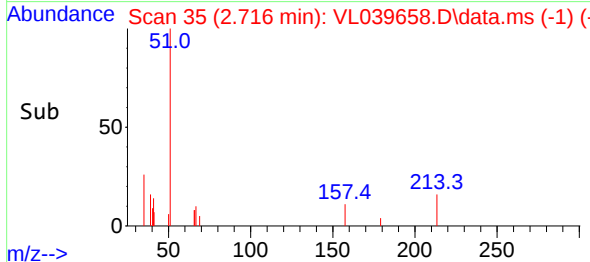
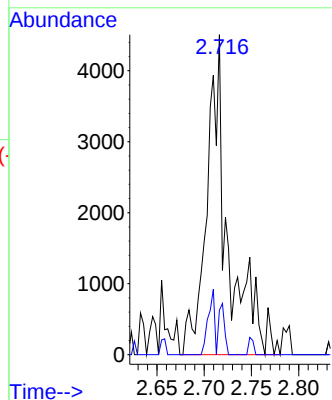
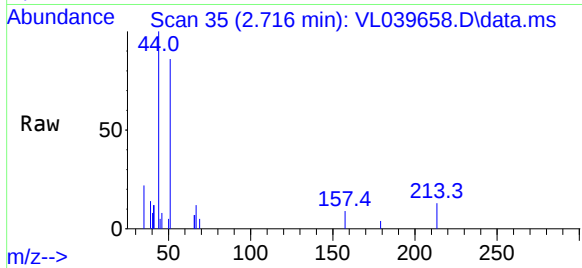




#3
Chlorodifluoromethane
Concen: 0.055 ppbv
RT: 2.716 min Scan# 31
Delta R.T. 0.023 min
Lab File: VL039658.D
Acq: 22 Sep 2022 6:12

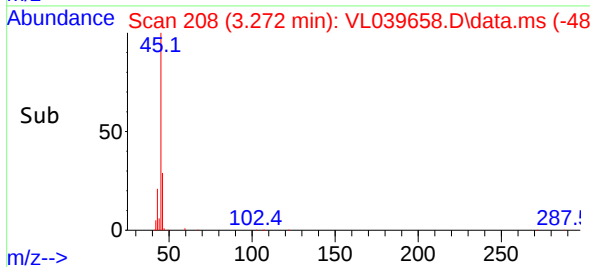
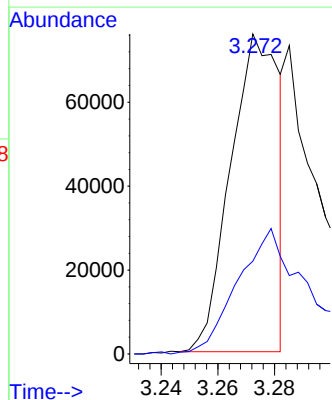
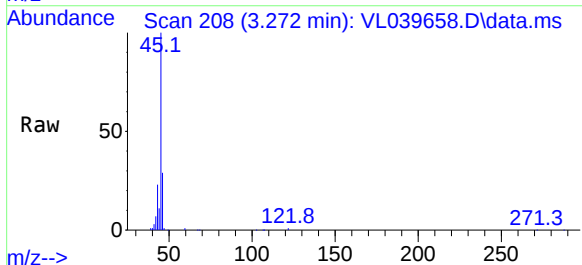
Instrument :
MSVOA_L
ClientSampleId :

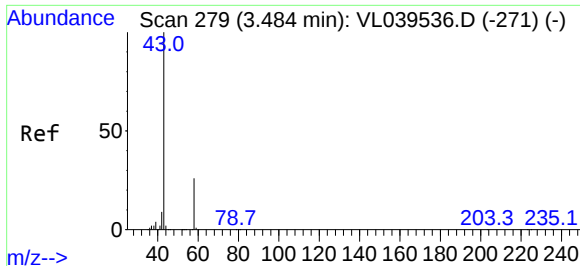
Tgt Ion: 51 Resp: 7065
Ion Ratio Lower Upper
51 100
67 10.4 15.7 23.5#



#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#

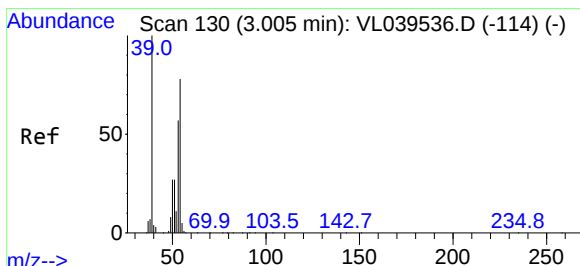
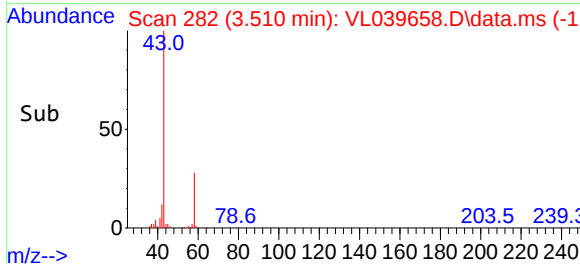
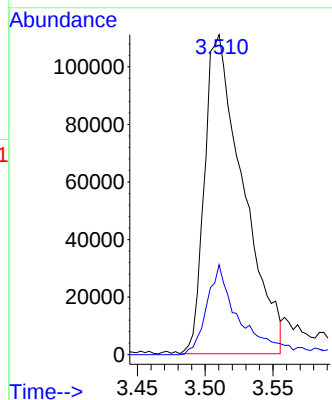
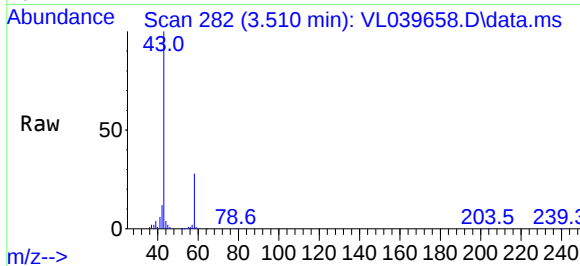




#15
Acetone
Concen: 1.815 ppbv
RT: 3.510 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL039658.D
Acq: 22 Sep 2022 6:12

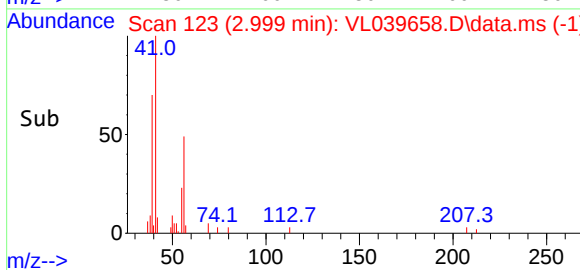
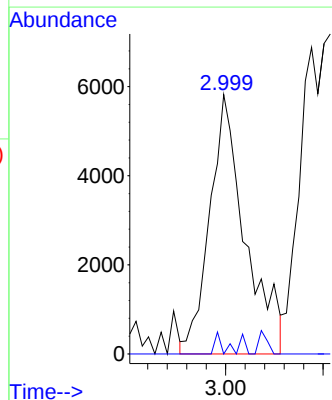
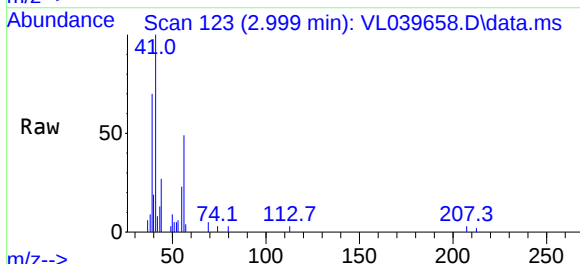
Instrument :
MSVOA_L
ClientSampleId :

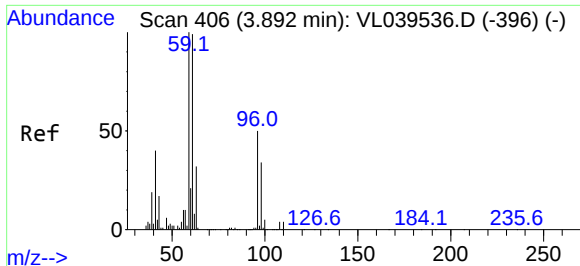
Tgt Ion: 43 Resp: 217938
Ion Ratio Lower Upper
43 100
58 27.4 21.0 31.6



#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_L

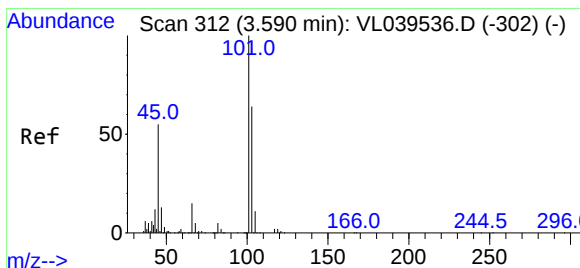
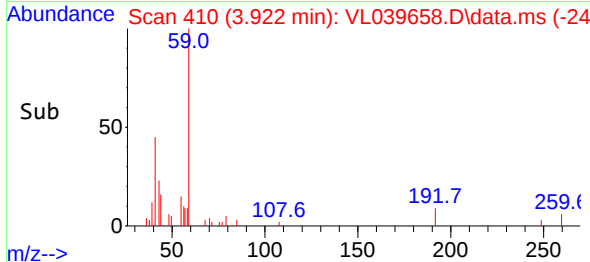
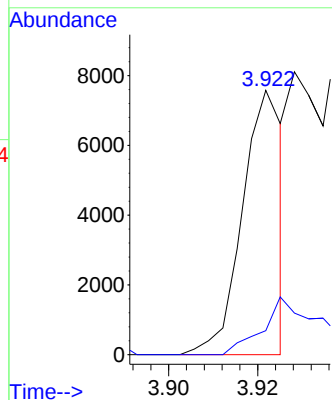
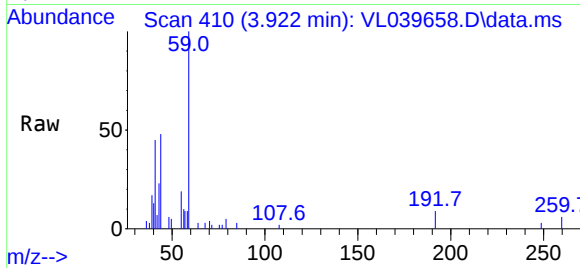
ClientSampleId :

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

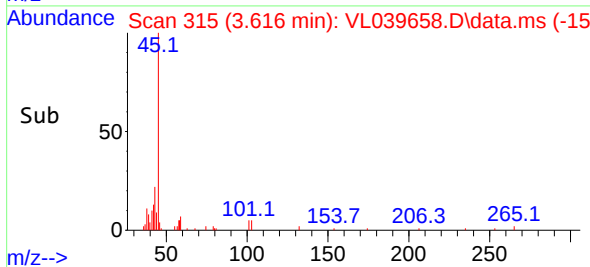
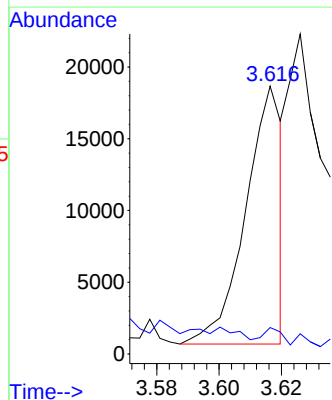
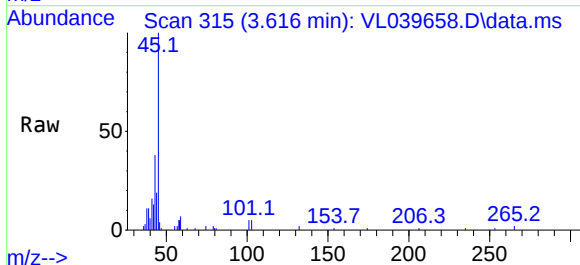
Acq: 22 Sep 2022 6:12

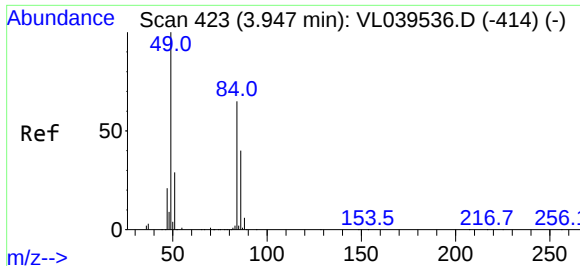
Tgt Ion: 45 Resp: 14504

Ion Ratio Lower Upper

45 100

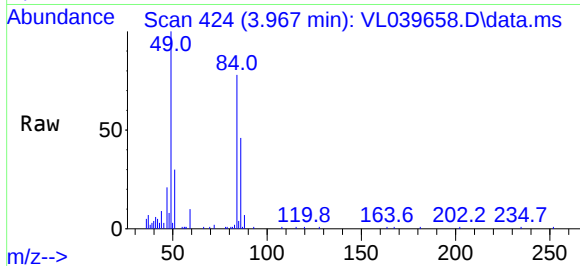
58 0.0 3.2 4.8#





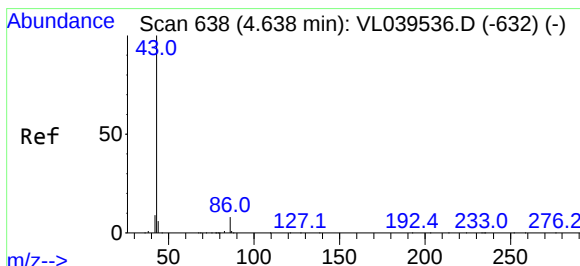
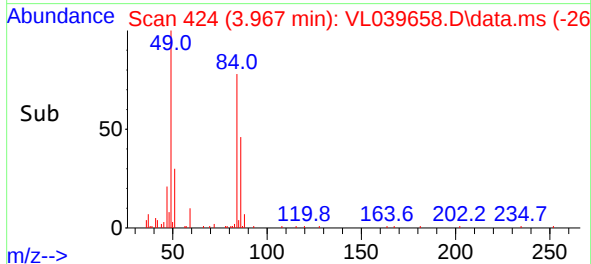
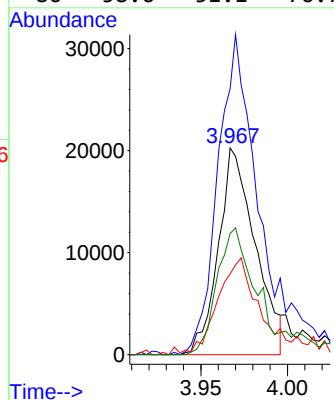
#20
Methylene Chloride
Concen: 0.541 ppbv
RT: 3.967 min Scan# 41
Delta R.T. 0.020 min
Lab File: VL039658.D
Acq: 22 Sep 2022 6:12

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 84 Resp: 30017

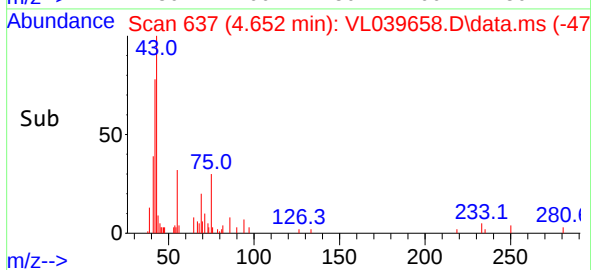
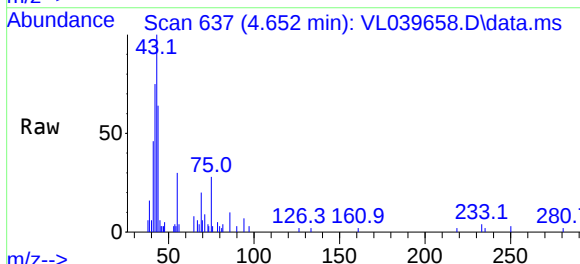
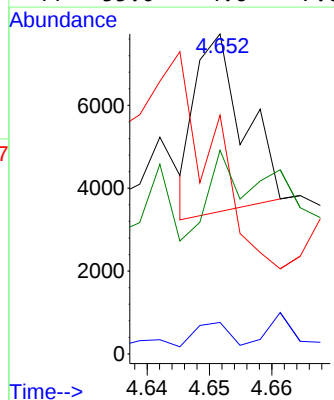
Ion	Ratio	Lower	Upper
84	100		
49	128.5	123.1	184.7
51	38.2	34.4	51.6
86	58.6	51.1	76.7

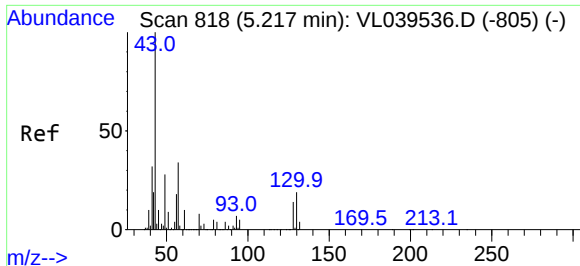


#23
Vinyl Acetate
Concen: 0.043 ppbv
RT: 4.652 min Scan# 637
Delta R.T. 0.014 min
Lab File: VL039658.D
Acq: 22 Sep 2022 6:12

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#



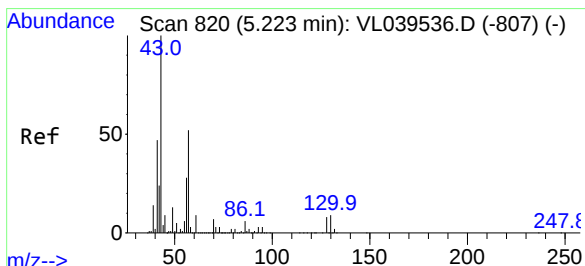
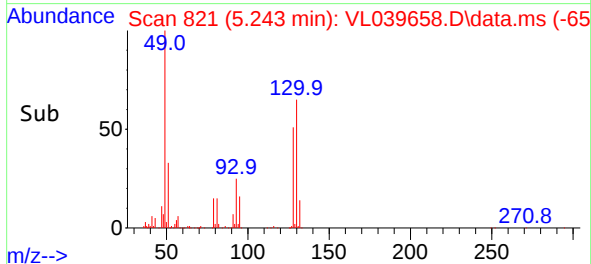
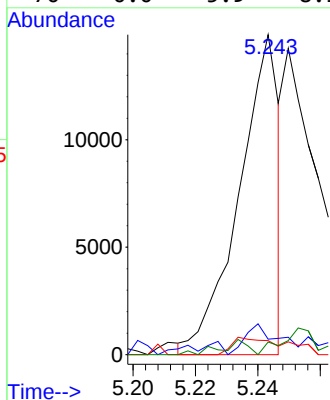
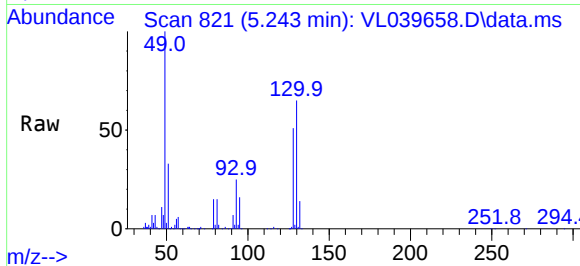


#25
Ethyl Acetate
Concen: 0.050 ppbv
RT: 5.243 min Scan# 818
Delta R.T. 0.026 min
Lab File: VL039658.D
Acq: 22 Sep 2022 6:12

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 43 Resp: 13140

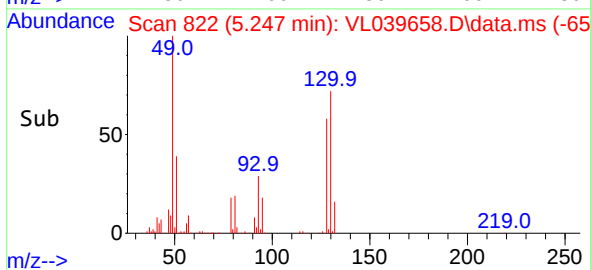
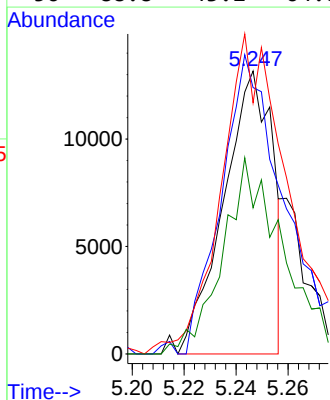
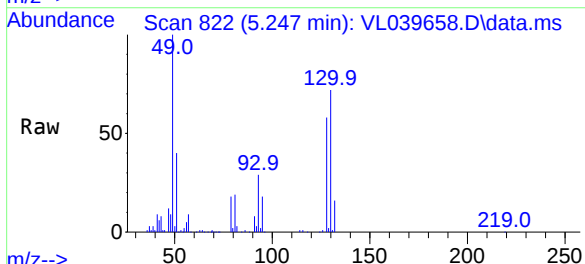
Ion	Ratio	Lower	Upper
43	100		
45	18.3	8.2	12.4#
61	0.0	8.3	12.5#
70	0.0	5.9	8.9#

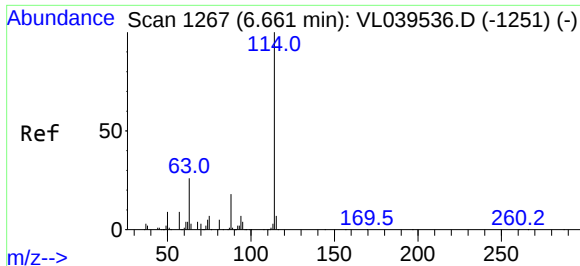


#26
Hexane
Concen: 0.155 ppbv
RT: 5.247 min Scan# 822
Delta R.T. 0.023 min
Lab File: VL039658.D
Acq: 22 Sep 2022 6:12

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#

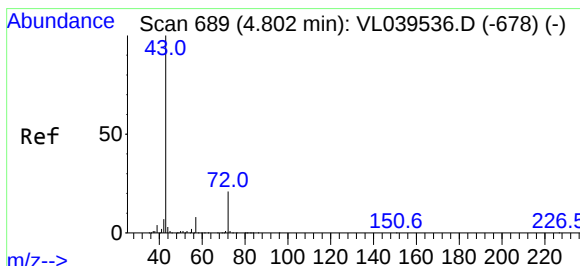
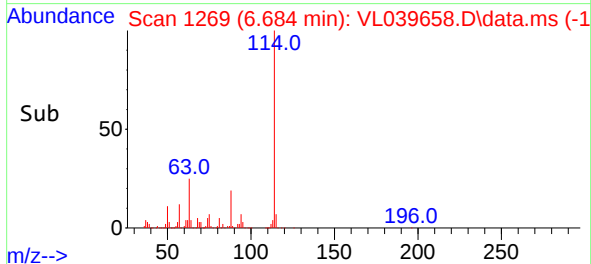
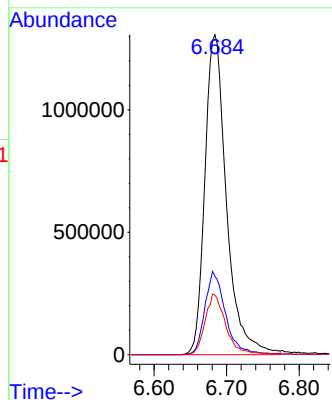
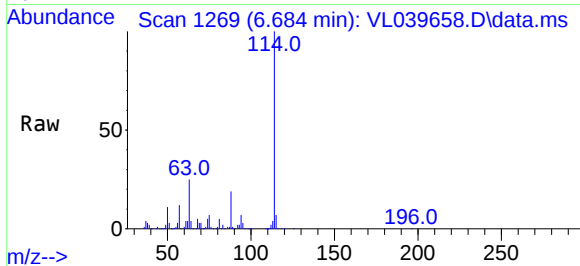




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.684 min Scan# 11
Delta R.T. 0.023 min
Lab File: VL039658.D
Acq: 22 Sep 2022 6:12

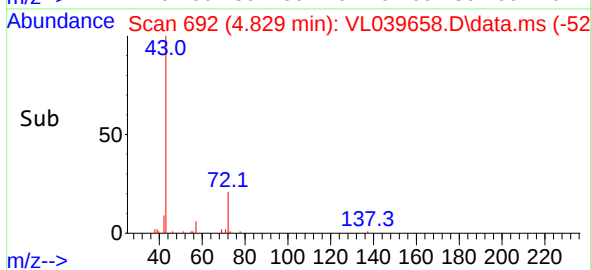
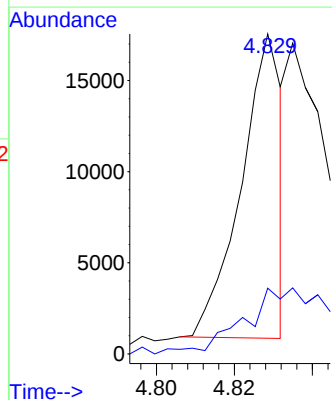
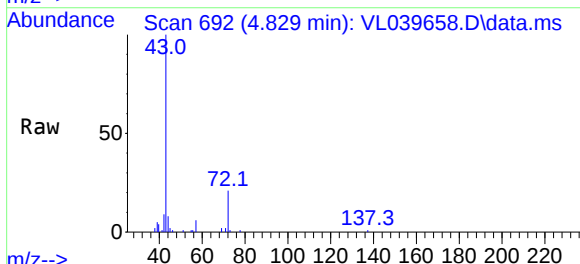
Instrument :
MSVOA_L
ClientSampleId :

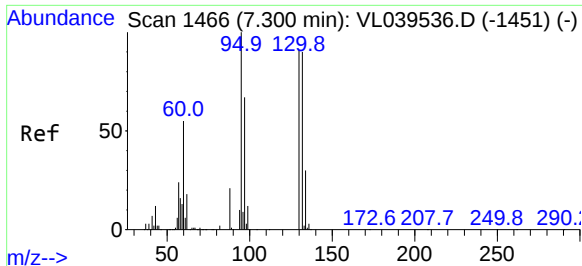
Tgt Ion:114 Resp: 2706041
Ion Ratio Lower Upper
114 100
63 25.3 20.2 30.4
88 18.3 14.5 21.7



#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

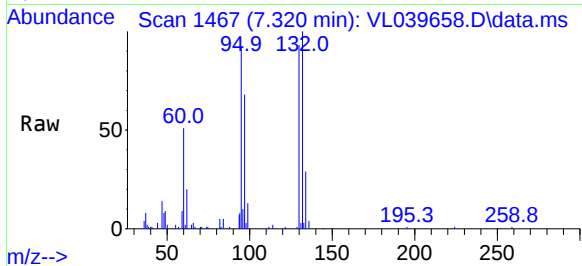
Tgt Ion: 43 Resp: 12081
Ion Ratio Lower Upper
43 100
72 0.0 17.9 26.9#



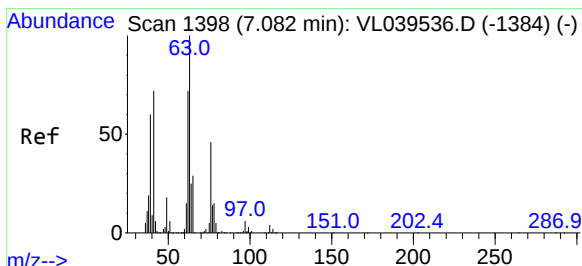
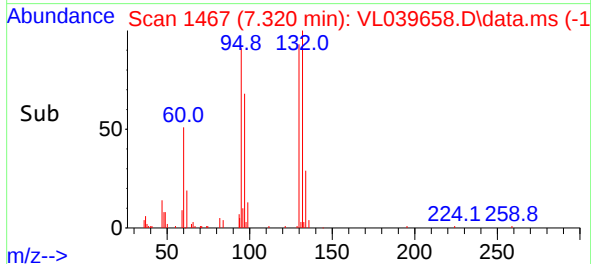
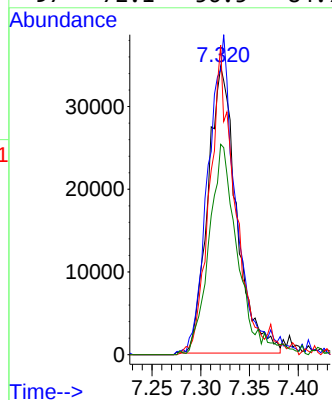


#38
Trichloroethene
Concen: 0.636 ppbv
RT: 7.320 min Scan# 14
Delta R.T. 0.020 min
Lab File: VL039658.D
Acq: 22 Sep 2022 6:12

Instrument :
MSVOA_L
ClientSampleId :

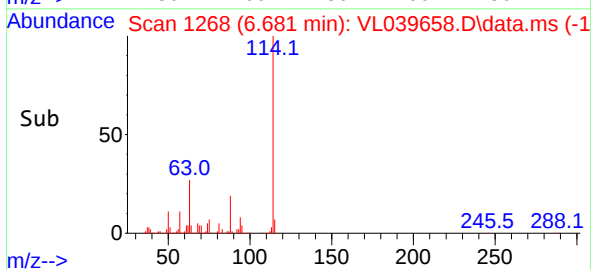
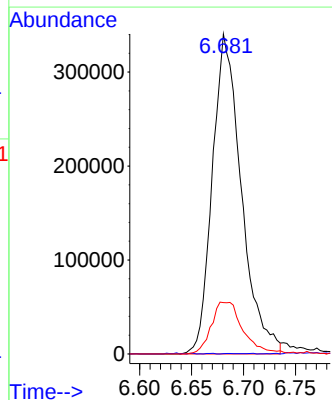
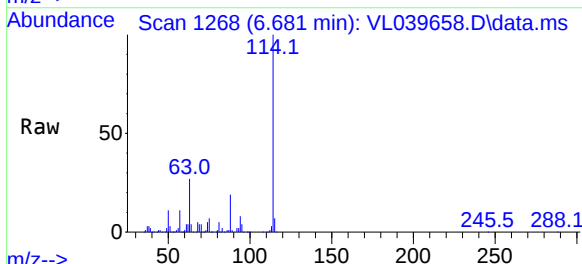


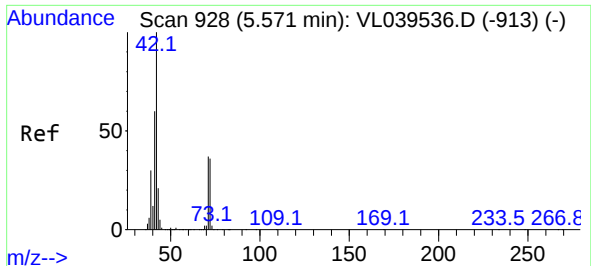
Tgt Ion:	130	Resp:	71085
Ion	Ratio	Lower	Upper
130	100		
95	98.2	87.3	130.9
132	107.5	76.7	115.1
97	72.1	56.5	84.7



#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

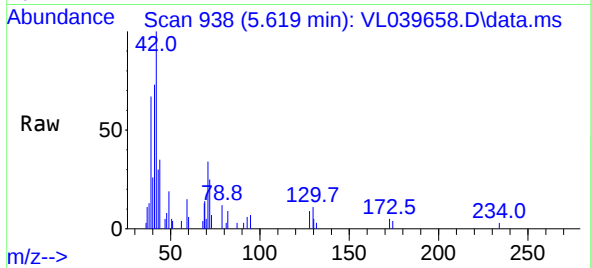
Tgt Ion:	63	Resp:	660261
Ion	Ratio	Lower	Upper
63	100		
41	0.1	59.6	89.4#
62	16.1	51.4	77.0#



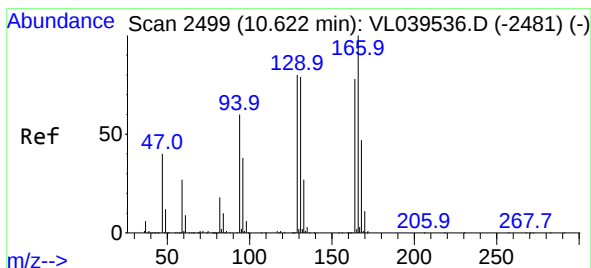
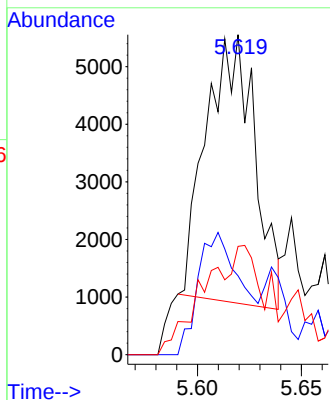
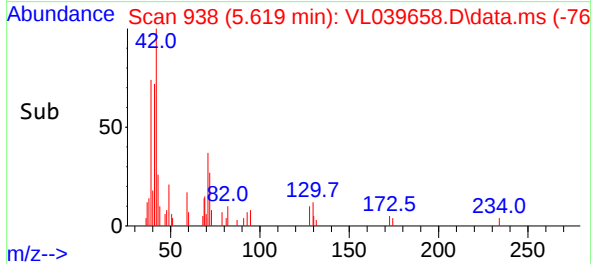


#41
Tetrahydrofuran
Concen: 0.092 ppbv
RT: 5.619 min Scan# 91
Delta R.T. 0.049 min
Lab File: VL039658.D
Acq: 22 Sep 2022 6:12

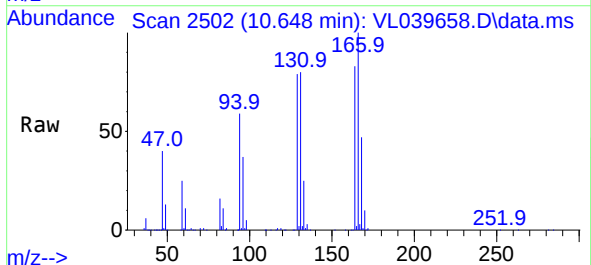
Instrument :
MSVOA_L
ClientSampleId :



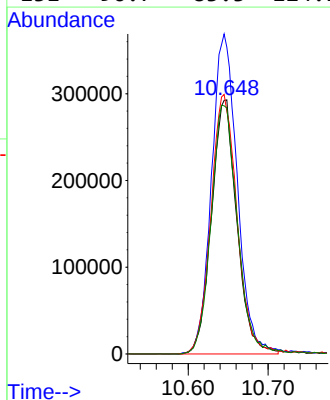
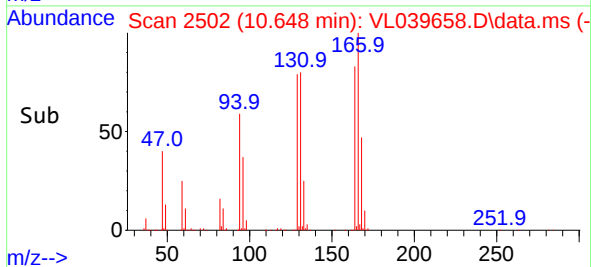
Tgt Ion: 42 Resp: 7541
Ion Ratio Lower Upper
42 100
72 67.5 31.8 47.8#
71 66.1 31.8 47.8#

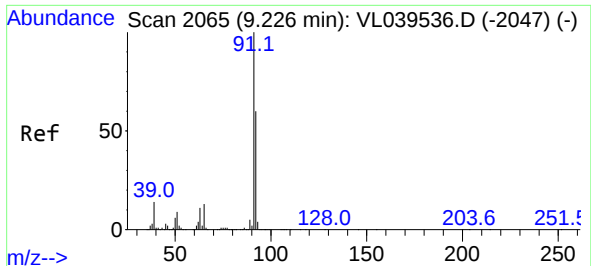


#52
Tetrachloroethene
Concen: 8.181 ppbv
RT: 10.648 min Scan# 2502
Delta R.T. 0.026 min
Lab File: VL039658.D
Acq: 22 Sep 2022 6:12



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

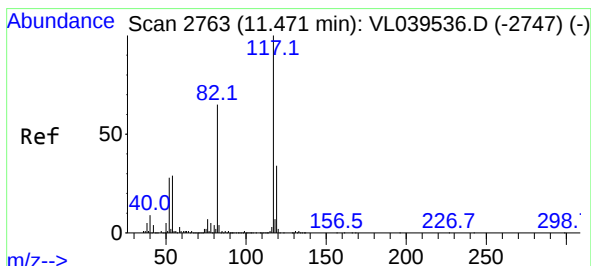
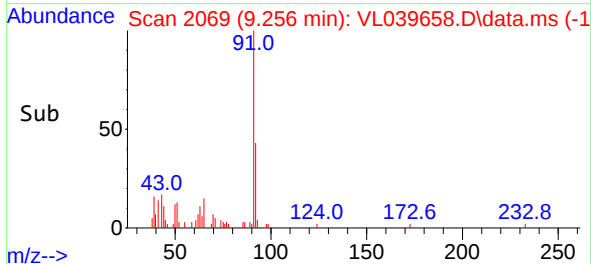
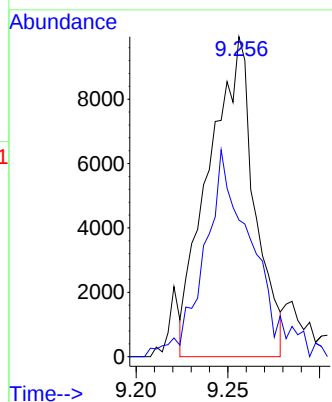
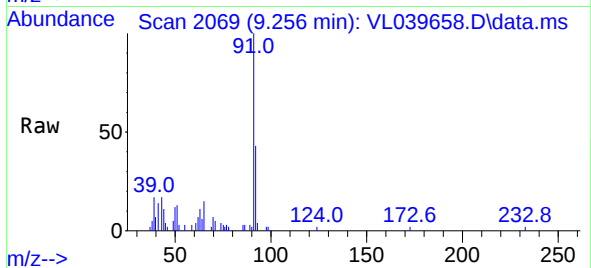
ClientSampleId :

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

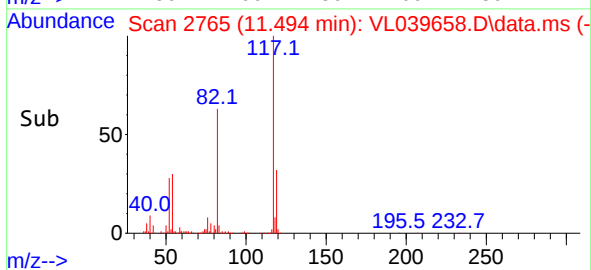
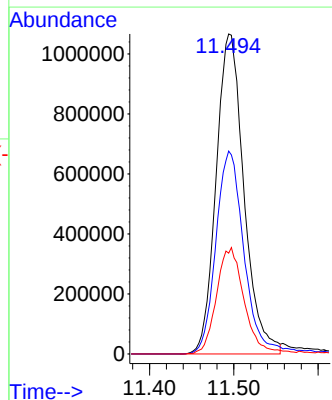
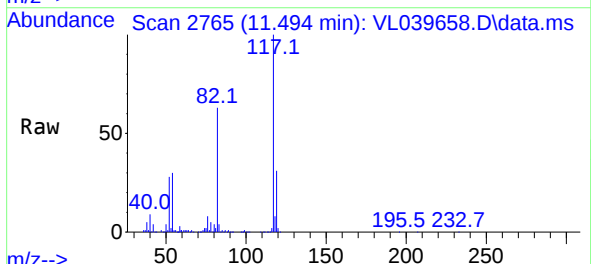
Tgt Ion: 117 Resp: 2444601

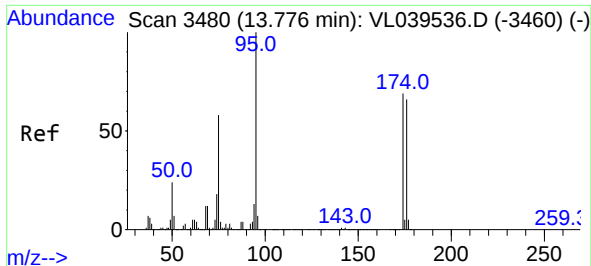
Ion Ratio Lower Upper

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

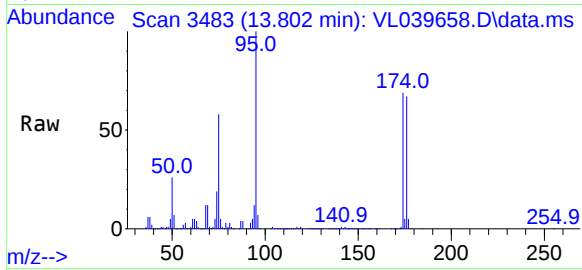
Lab File: VL039658.D

Acq: 22 Sep 2022 6:12

Instrument :

MSVOA_L

ClientSampleId :



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

