

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL083122\
 Data File : VL039606.D
 Acq On : 31 Aug 2022 13:24
 Operator : SY/AP
 Sample : N4408-02DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVE-EFF-082222DL

Quant Time: Sep 11 06:44:03 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081722AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Aug 26 06:05:16 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.214	49	1017794	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.674	114	2622378	10.000	ppbv	0.01
55) Chlorobenzene-d5	11.484	117	2286545	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.793	95	1654408	9.591	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.761	85	10618	0.078	ppbv	97
3) Chlorodifluoromethane	2.681	51	26194	0.216	ppbv #	68
11) Trichlorofluoromethane	3.587	101	5050	0.034	ppbv #	43
13) Ethanol	3.266	45	6802	1.706	ppbv #	36
15) Acetone	3.497	43	246378	2.161	ppbv	93
20) Methylene Chloride	3.960	84	402762	8.695	ppbv	92
23) Vinyl Acetate	4.632	43	39182	0.723	ppbv #	1
25) Ethyl Acetate	5.237	43	138745	0.569	ppbv #	76
26) Hexane	5.237	57	187557	1.884	ppbv #	41
31) cis-1,2-Dichloroethene	5.108	61	102991	1.068	ppbv	89
32) 1,1,1-Trichloroethane	6.025	97	11681	0.085	ppbv #	14
34) 2-Butanone	4.819	43	30774	0.236	ppbv #	75
38) Trichloroethene	7.311	130	299645	2.798	ppbv	96
39) 1,2-Dichloropropane	6.674	63	635549	8.456	ppbv #	25
52) Tetrachloroethene	10.629	164	75397	0.997	ppbv	87
80) Naphthalene,2-methyl-	24.384	142	3004	0.039	ppbv #	63

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

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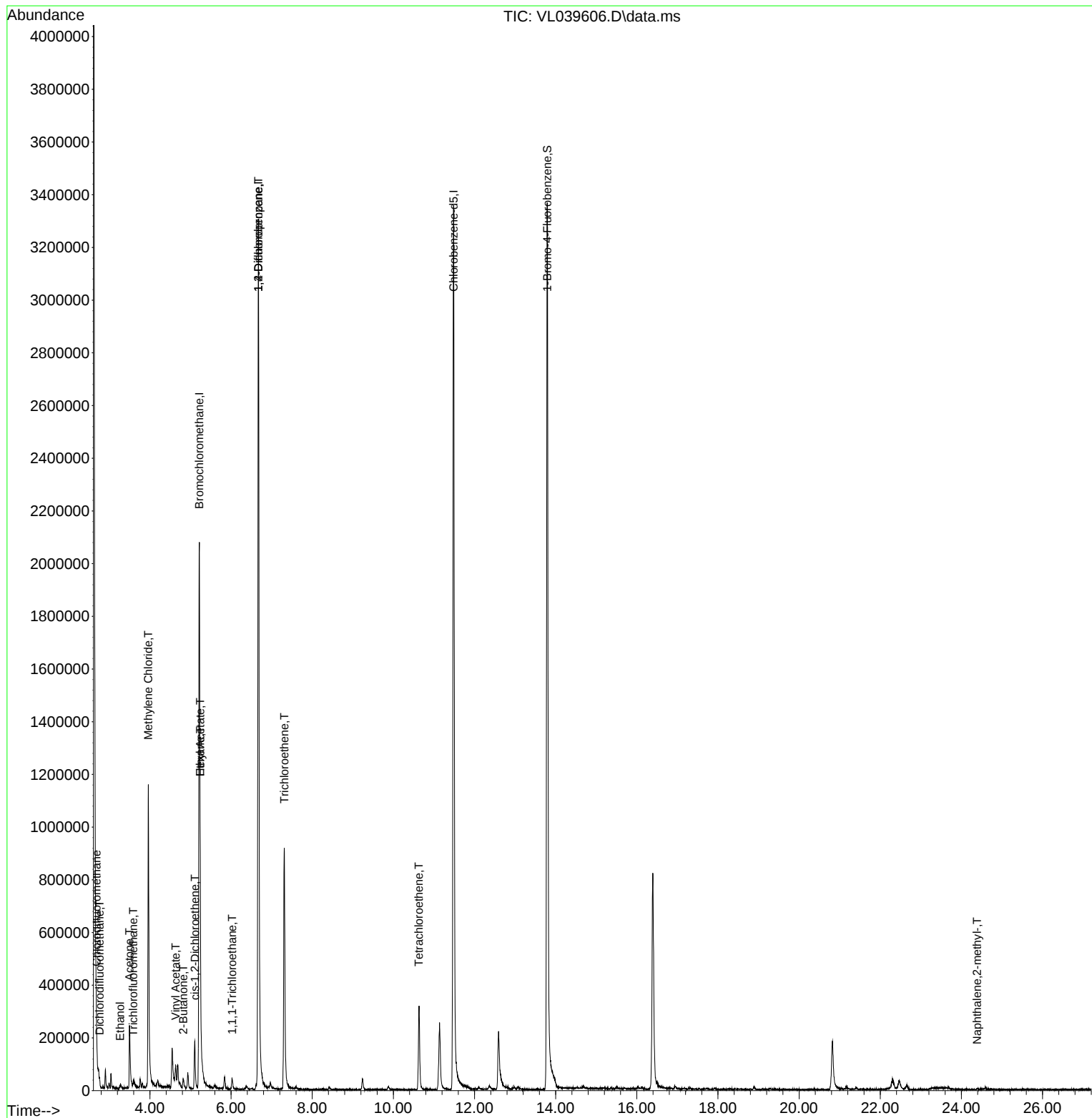
Quant Time: Sep 11 06:44:03 2022

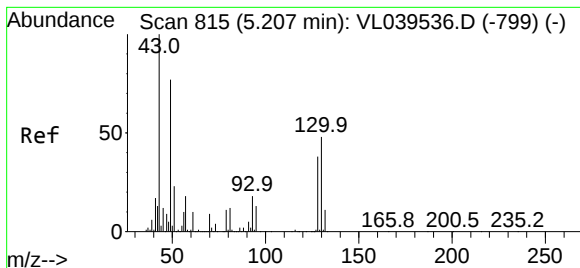
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081722AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

QLast Update : Fri Aug 26 06:05:16 2022

Response via : Initial Calibration

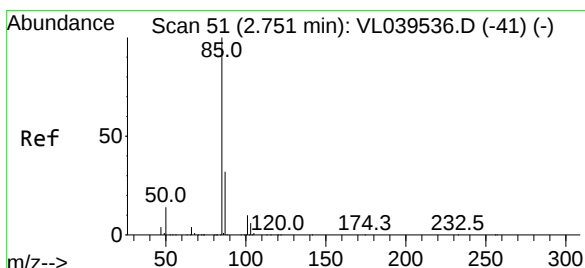
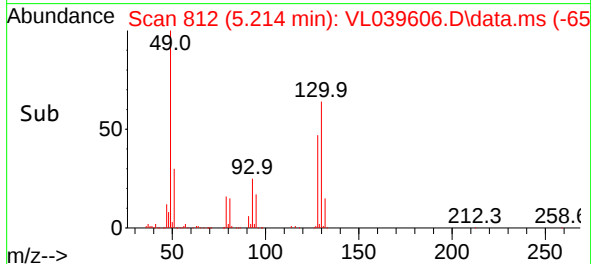
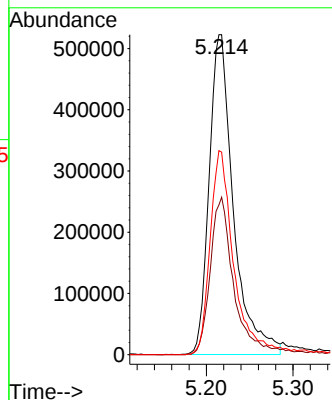
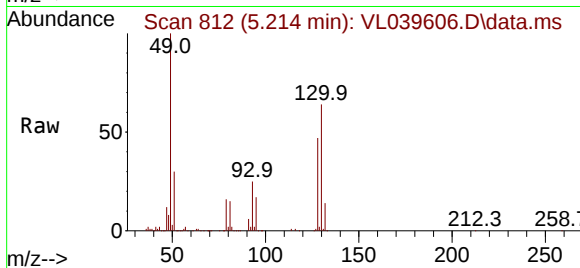




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.214 min Scan# 81
 Delta R.T. 0.007 min
 Lab File: VL039606.D
 Acq: 31 Aug 2022 13:24

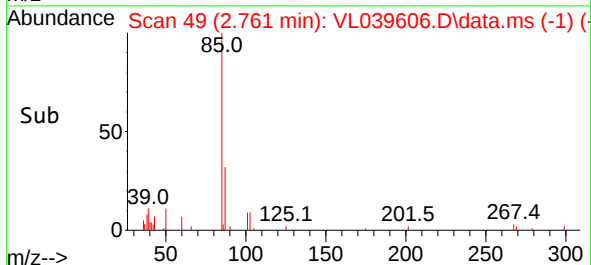
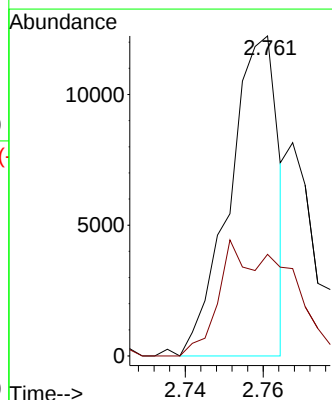
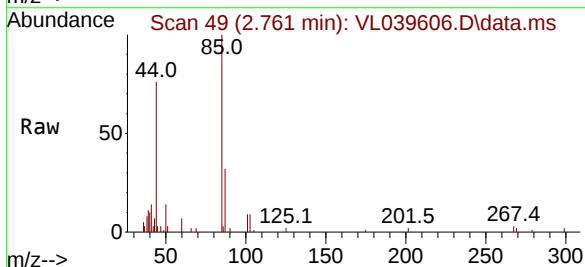
Instrument :
 MSVOA_L
 ClientSampleId :
 SVE-EFF-082222DL

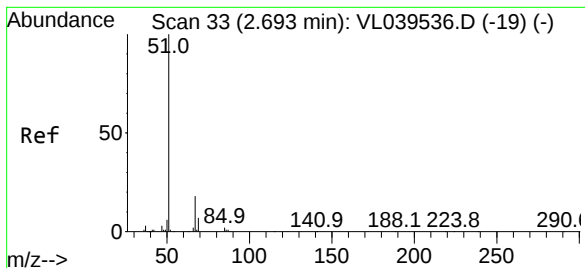
Tgt Ion: 49 Resp: 1017794
 Ion Ratio Lower Upper
 49 100
 128 50.0 26.7 80.0
 130 65.5 34.3 102.8



#2
 Dichlorodifluoromethane
 Concen: 0.078 ppbv
 RT: 2.761 min Scan# 49
 Delta R.T. 0.010 min
 Lab File: VL039606.D
 Acq: 31 Aug 2022 13:24

Tgt Ion: 85 Resp: 10618
 Ion Ratio Lower Upper
 85 100
 87 31.7 26.7 40.1

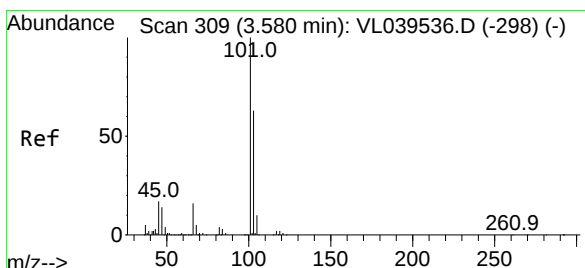
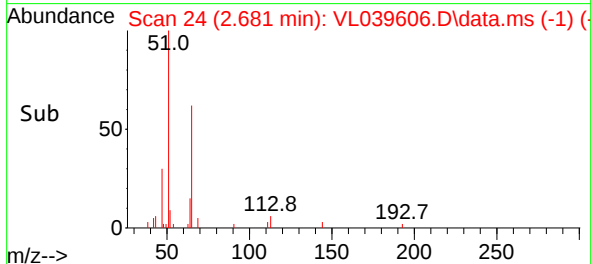
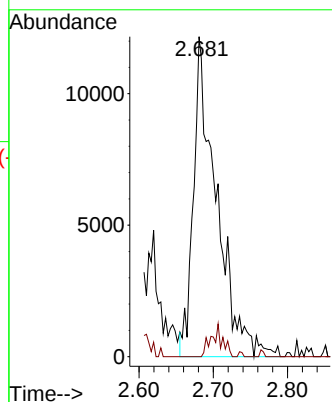
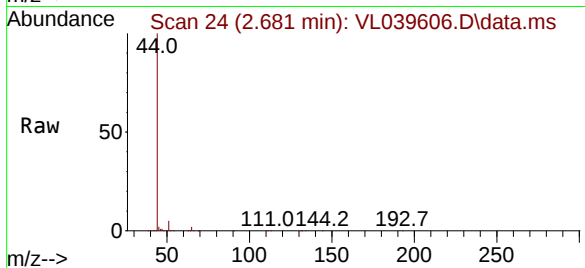




#3
Chlorodifluoromethane
Concen: 0.216 ppbv
RT: 2.681 min Scan# 24
Delta R.T. -0.012 min
Lab File: VL039606.D
Acq: 31 Aug 2022 13:24

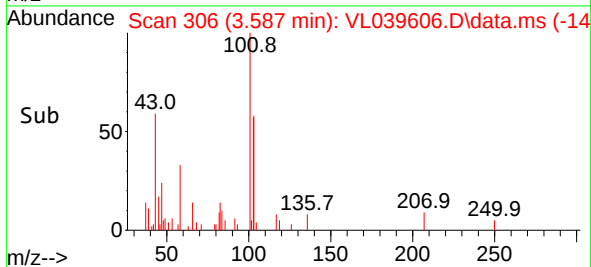
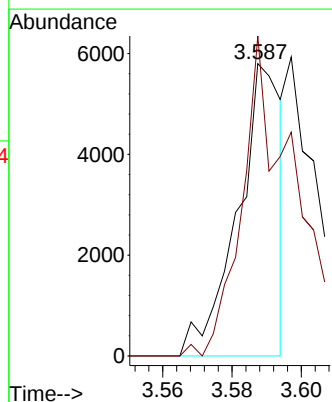
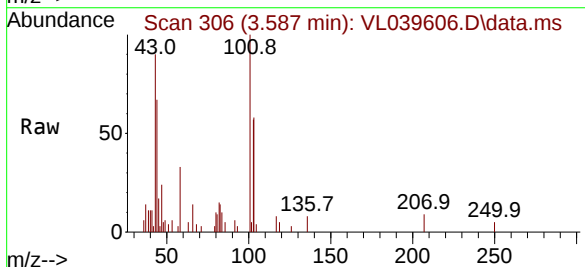
Instrument :
MSVOA_L
ClientSampleId :
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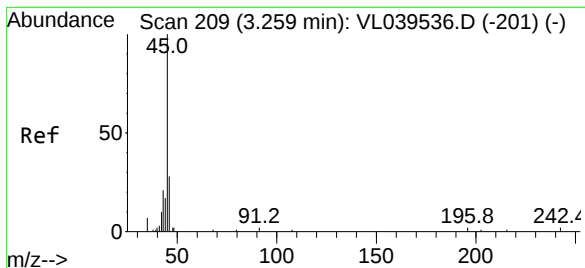
Tgt Ion: 51 Resp: 26194
Ion Ratio Lower Upper
51 100
67 5.2 15.7 23.5#



#11
Trichlorofluoromethane
Concen: 0.034 ppbv
RT: 3.587 min Scan# 306
Delta R.T. 0.007 min
Lab File: VL039606.D
Acq: 31 Aug 2022 13:24

Tgt Ion: 101 Resp: 5050
Ion Ratio Lower Upper
101 100
103 109.5 51.8 77.8#

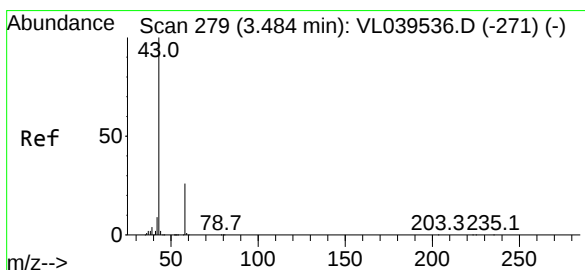
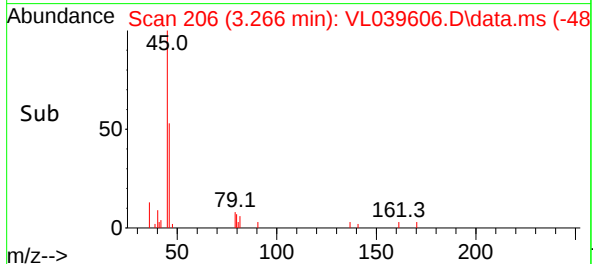
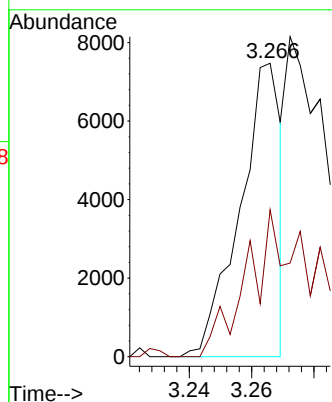
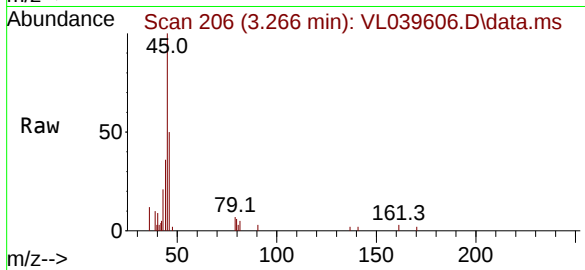




#13
Ethanol
Concen: 1.706 ppbv
RT: 3.266 min Scan# 206
Delta R.T. 0.007 min
Lab File: VL039606.D
Acq: 31 Aug 2022 13:24

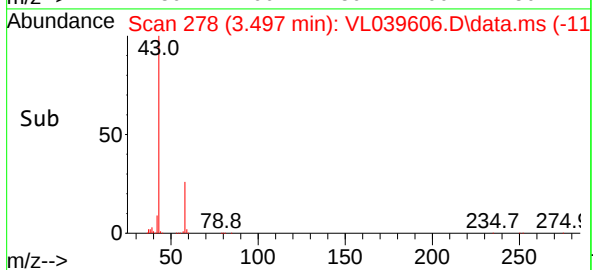
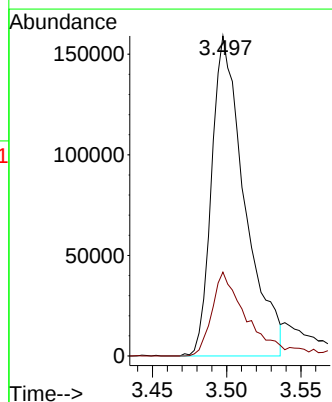
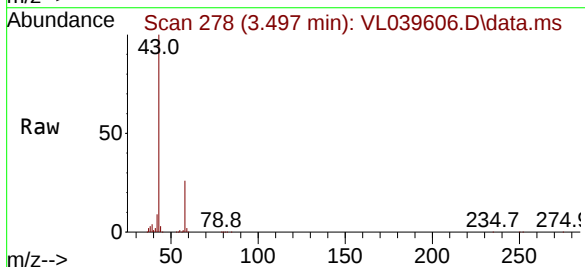
Instrument :
MSVOA_L
ClientSampleId :
SVE-EFF-082222DL

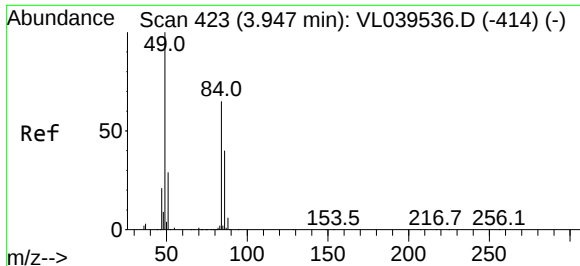
Tgt Ion: 45 Resp: 6802
Ion Ratio Lower Upper
45 100
46 104.5 22.8 91.2#



#15
Acetone
Concen: 2.161 ppbv
RT: 3.497 min Scan# 278
Delta R.T. 0.014 min
Lab File: VL039606.D
Acq: 31 Aug 2022 13:24

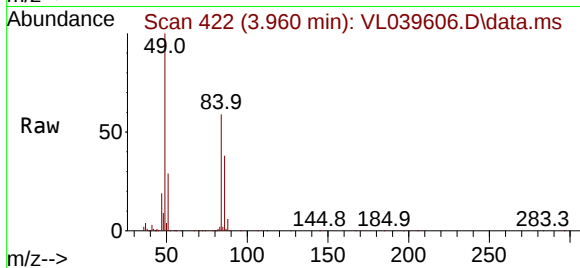
Tgt Ion: 43 Resp: 246378
Ion Ratio Lower Upper
43 100
58 30.0 21.0 31.6





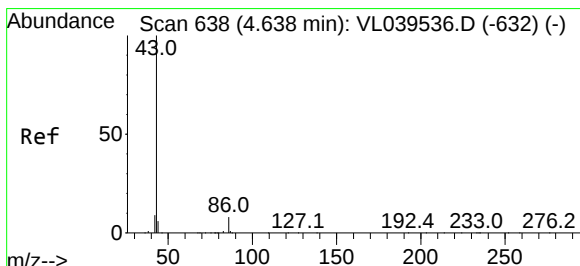
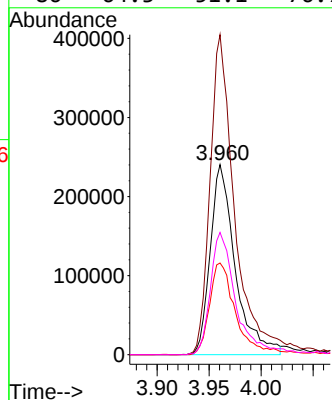
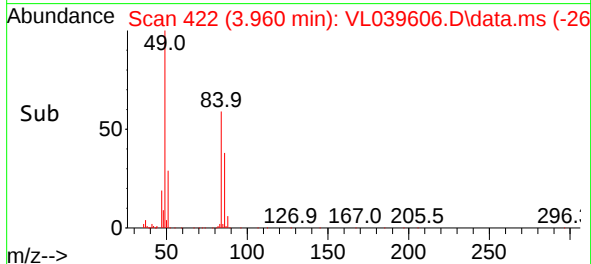
#20
Methylene Chloride
Concen: 8.695 ppbv
RT: 3.960 min Scan# 41
Delta R.T. 0.014 min
Lab File: VL039606.D
Acq: 31 Aug 2022 13:24

Instrument :
MSVOA_L
ClientSampleId :
SVE-EFF-082222DL



Tgt Ion: 84 Resp: 402762

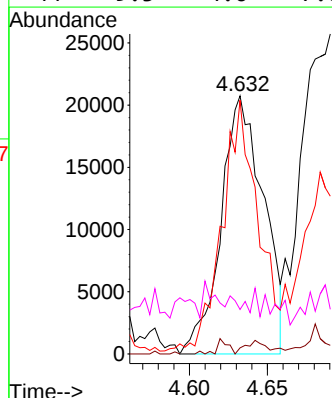
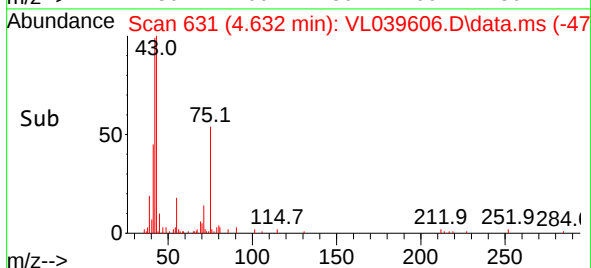
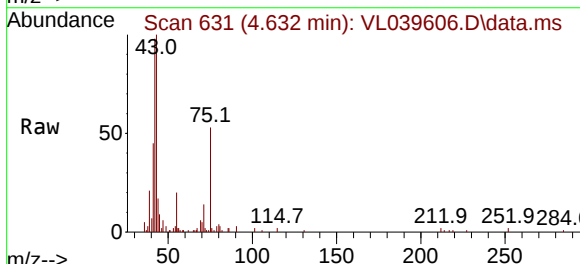
Ion	Ratio	Lower	Upper
84	100		
49	168.2	123.1	184.7
51	48.2	34.4	51.6
86	64.3	51.1	76.7

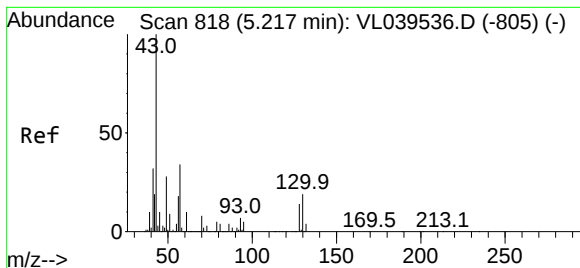


#23
Vinyl Acetate
Concen: 0.723 ppbv
RT: 4.632 min Scan# 631
Delta R.T. -0.006 min
Lab File: VL039606.D
Acq: 31 Aug 2022 13:24

Tgt Ion: 43 Resp: 39182

Ion	Ratio	Lower	Upper
43	100		
86	2.4	5.0	7.6#
42	94.4	7.7	11.5#
44	9.3	4.6	7.0#

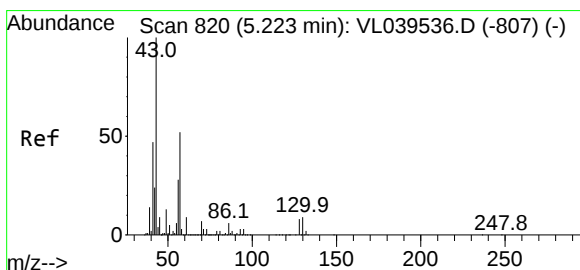
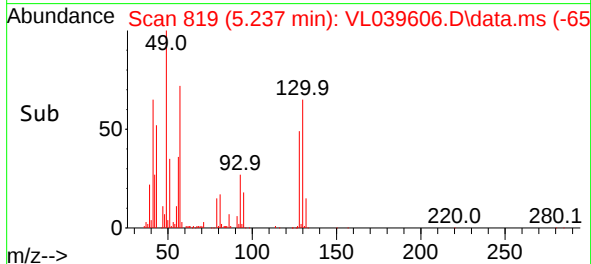
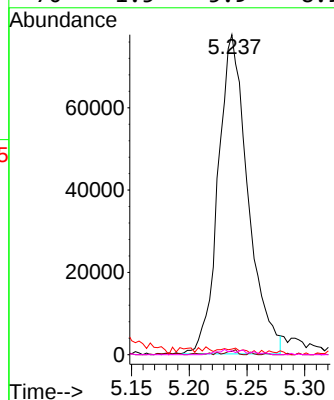
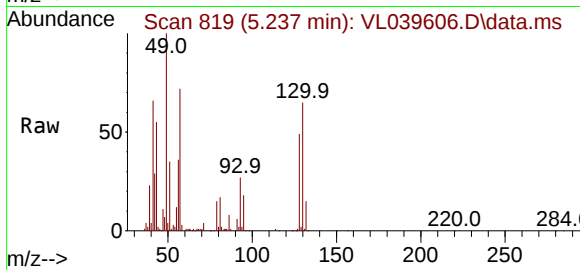




#25
Ethyl Acetate
Concen: 0.569 ppbv
RT: 5.237 min Scan# 819
Delta R.T. 0.020 min
Lab File: VL039606.D
Acq: 31 Aug 2022 13:24

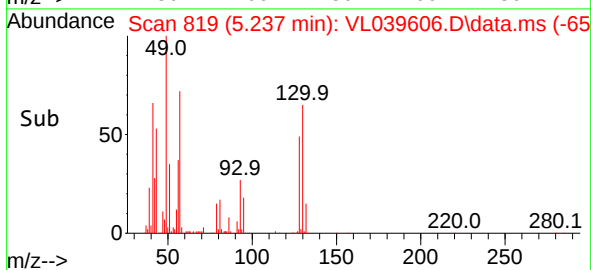
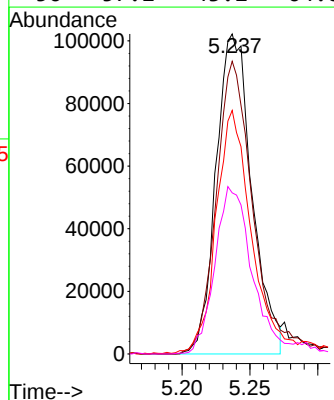
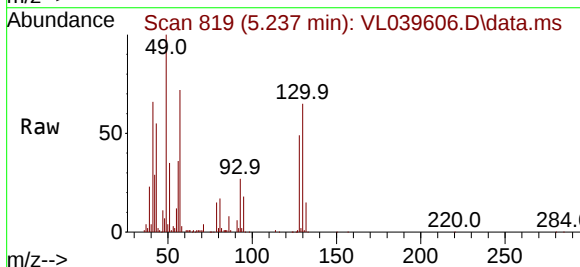
Instrument :
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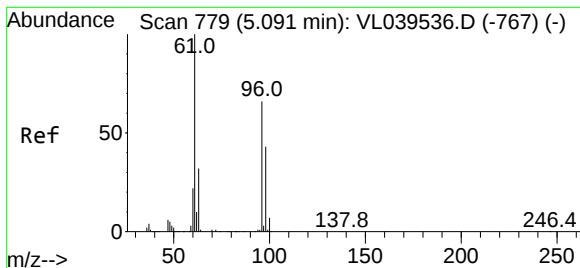
Tgt Ion:	43	Resp:	138745
Ion	Ratio	Lower	Upper
43	100		
45	1.0	8.2	12.4#
61	0.0	8.3	12.5#
70	1.5	5.9	8.9#



#26
Hexane
Concen: 1.884 ppbv
RT: 5.237 min Scan# 819
Delta R.T. 0.014 min
Lab File: VL039606.D
Acq: 31 Aug 2022 13:24

Tgt Ion:	57	Resp:	187557
Ion	Ratio	Lower	Upper
57	100		
41	97.3	76.9	115.3
43	77.7	191.0	286.6#
56	57.2	43.2	64.8

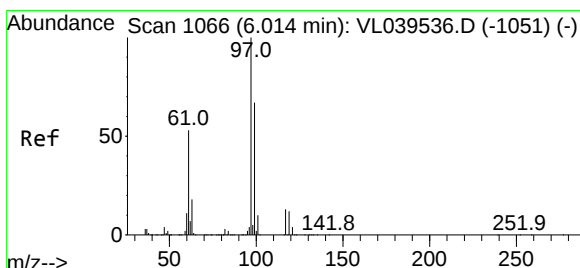
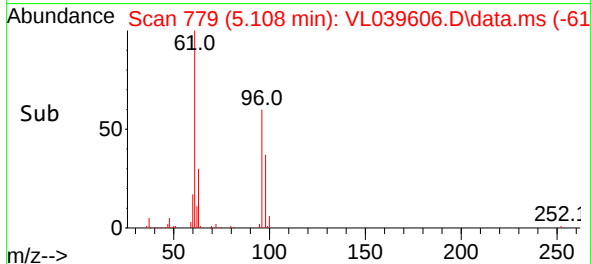
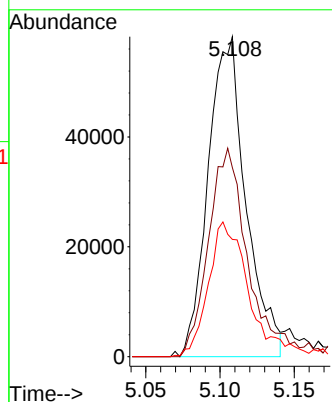
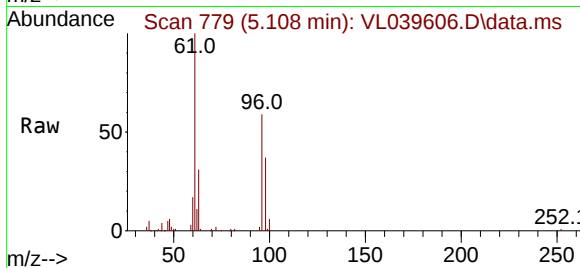




#31
 cis-1,2-Dichloroethene
 Concen: 1.068 ppbv
 RT: 5.108 min Scan# 71
 Delta R.T. 0.017 min
 Lab File: VL039606.D
 Acq: 31 Aug 2022 13:24

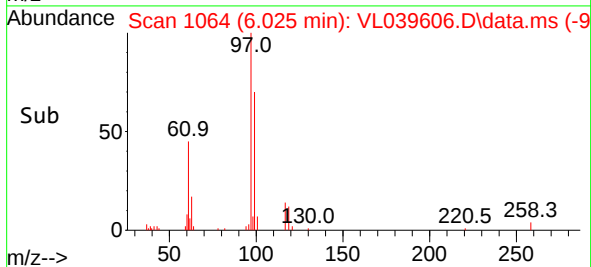
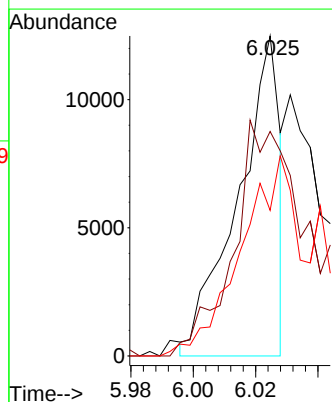
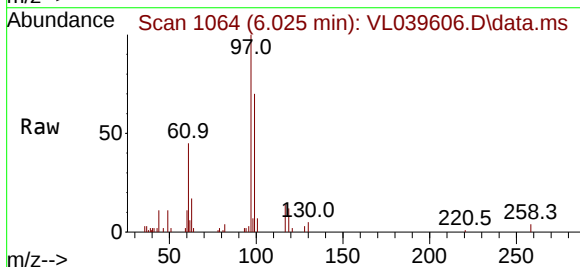
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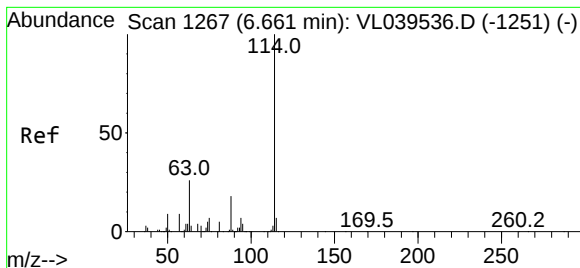
Tgt Ion: 61 Resp: 102991
 Ion Ratio Lower Upper
 61 100
 96 59.1 54.1 81.1
 98 36.3 34.6 52.0



#32
 1,1,1-Trichloroethane
 Concen: 0.085 ppbv
 RT: 6.025 min Scan# 1064
 Delta R.T. 0.010 min
 Lab File: VL039606.D
 Acq: 31 Aug 2022 13:24

Tgt Ion: 97 Resp: 11681
 Ion Ratio Lower Upper
 97 100
 99 141.7 52.3 78.5#
 61 0.0 40.9 61.3#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.674 min Scan# 1

Delta R.T. 0.014 min

Lab File: VL039606.D

Acq: 31 Aug 2022 13:24

Instrument :

MSVOA_L

ClientSampleId :

SVE-EFF-082222DL

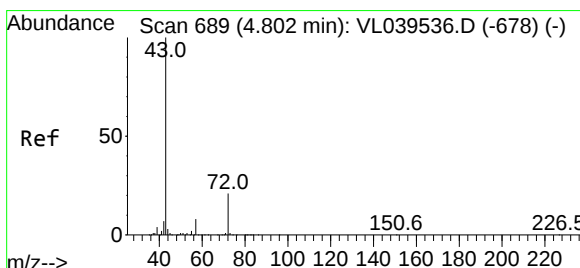
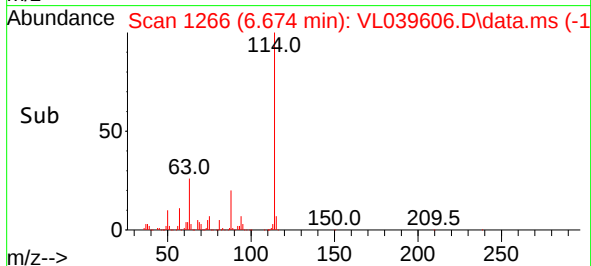
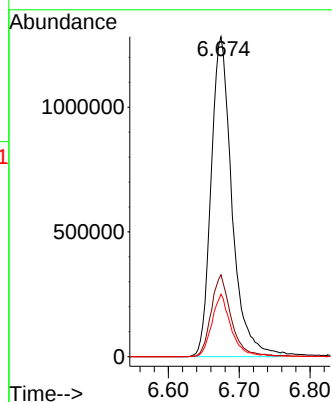
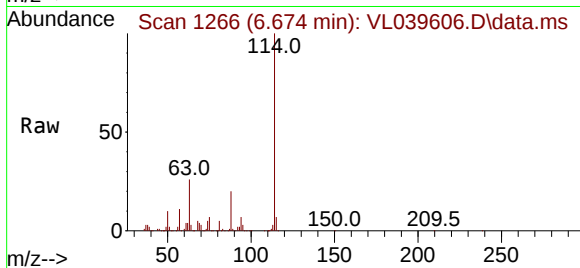
Tgt Ion:114 Resp: 2622378

Ion Ratio Lower Upper

114 100

63 24.8 20.2 30.4

88 18.3 14.5 21.7



#34

2-Butanone

Concen: 0.236 ppbv

RT: 4.819 min Scan# 689

Delta R.T. 0.017 min

Lab File: VL039606.D

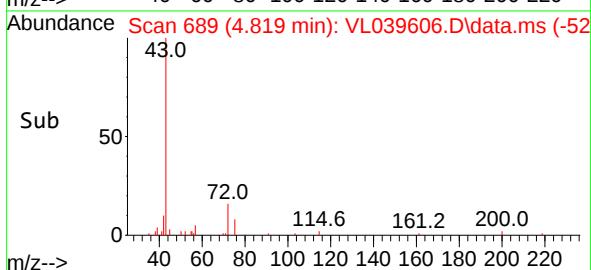
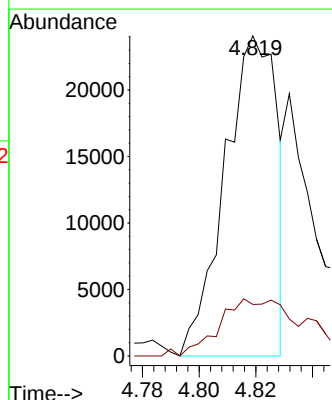
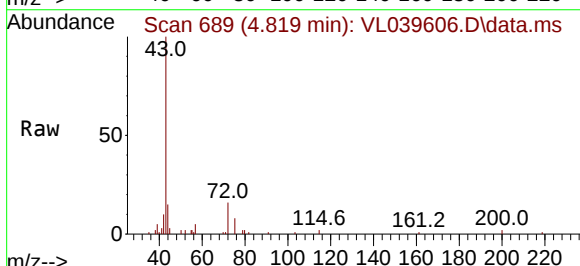
Acq: 31 Aug 2022 13:24

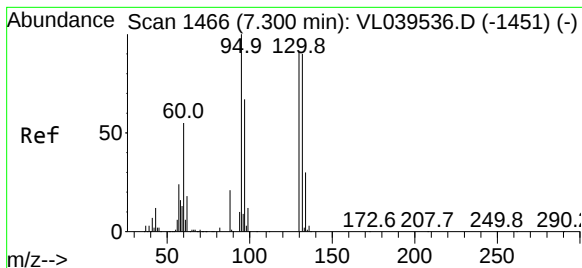
Tgt Ion: 43 Resp: 30774

Ion Ratio Lower Upper

43 100

72 34.5 17.9 26.9#





#38

Trichloroethene

Concen: 2.798 ppbv

RT: 7.311 min Scan# 1466

Delta R.T. 0.010 min

Lab File: VL039606.D

Acq: 31 Aug 2022 13:24

Instrument :

MSVOA_L

ClientSampleId :

SVE-EFF-082222DL

Tgt Ion:130 Resp: 299645

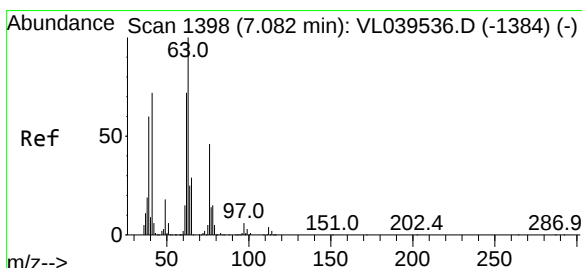
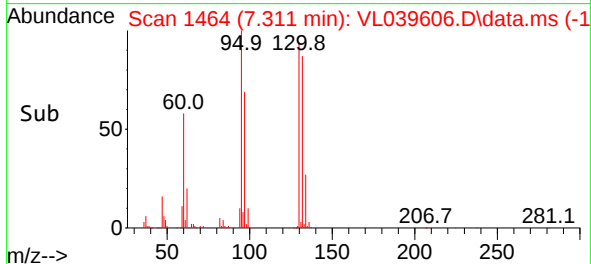
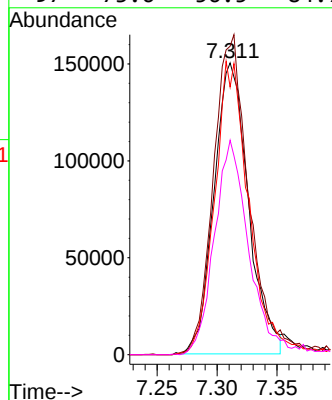
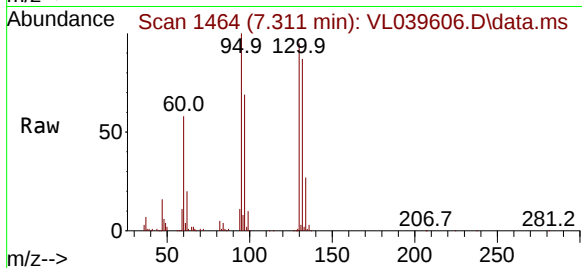
Ion Ratio Lower Upper

130 100

95 105.3 87.3 130.9

132 91.4 76.7 115.1

97 73.6 56.5 84.7



#39

1,2-Dichloropropane

Concen: 8.456 ppbv

RT: 6.674 min Scan# 1266

Delta R.T. -0.408 min

Lab File: VL039606.D

Acq: 31 Aug 2022 13:24

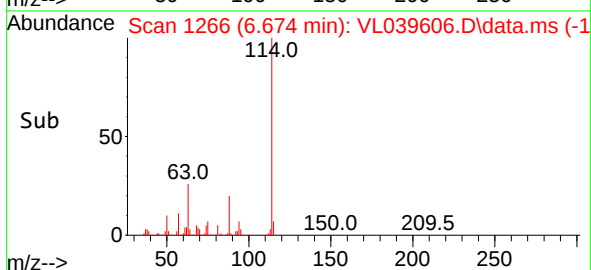
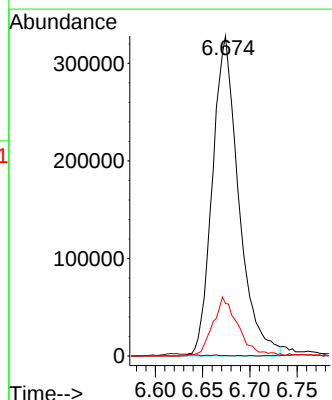
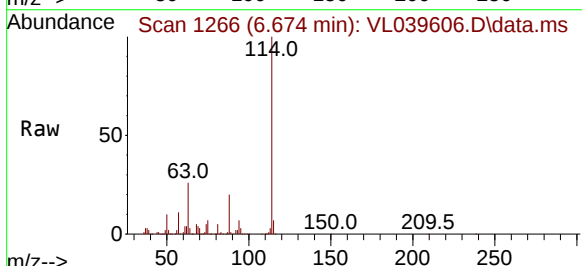
Tgt Ion: 63 Resp: 635549

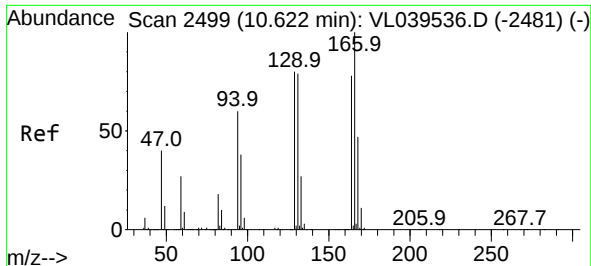
Ion Ratio Lower Upper

63 100

41 0.0 59.6 89.4#

62 16.4 51.4 77.0#

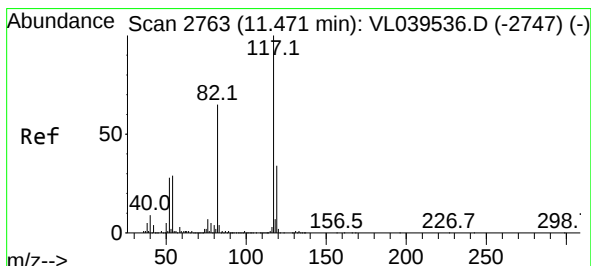
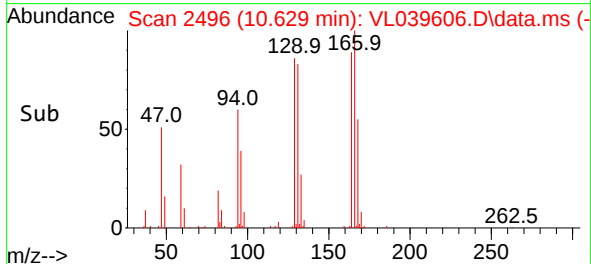
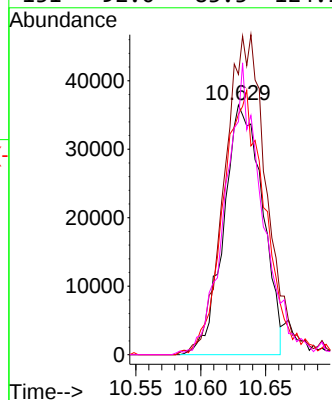
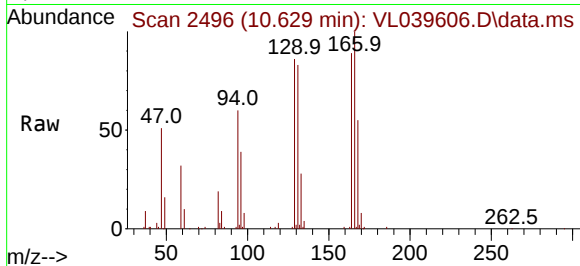




#52
Tetrachloroethene
Concen: 0.997 ppbv
RT: 10.629 min Scan# 2499
Delta R.T. 0.007 min
Lab File: VL039606.D
Acq: 31 Aug 2022 13:24

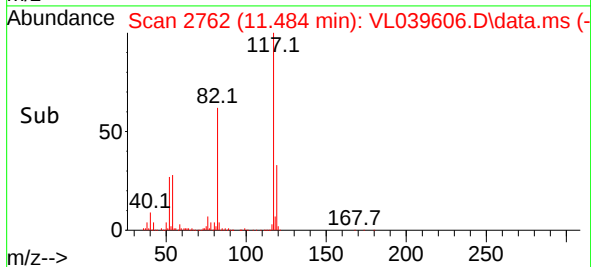
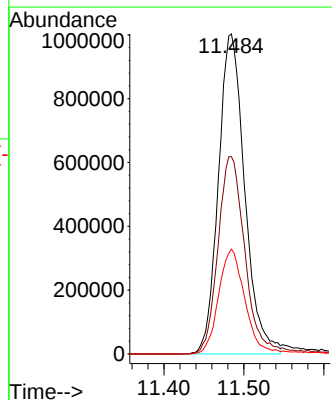
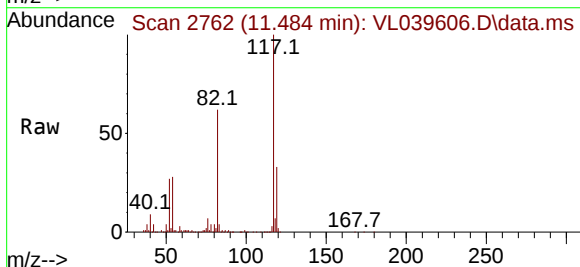
Instrument :
MSVOA_L
ClientSampleId :
SVE-EFF-082222DL

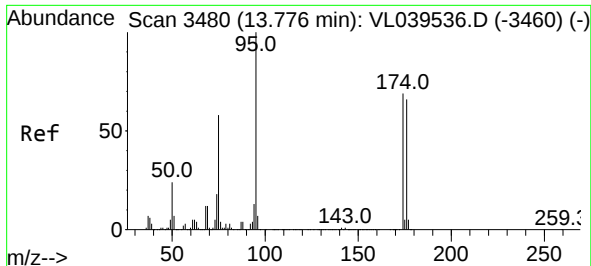
Tgt Ion:164	Resp:	75397	
Ion	Ratio	Lower	Upper
164	100		
166	111.4	102.2	153.2
129	94.9	85.8	128.8
131	92.0	83.3	124.9



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.484 min Scan# 2762
Delta R.T. 0.014 min
Lab File: VL039606.D
Acq: 31 Aug 2022 13:24

Tgt Ion:117	Resp:	2286545	
Ion	Ratio	Lower	Upper
117	100		
82	64.5	50.8	76.2
119	33.5	24.1	36.1

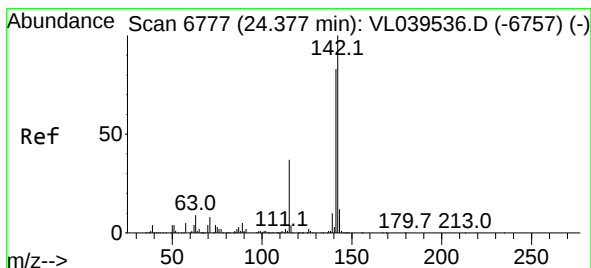
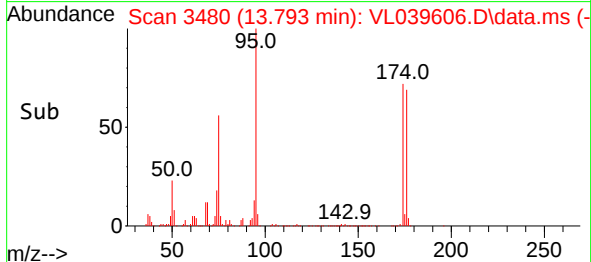
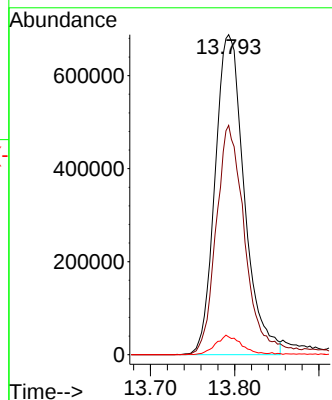
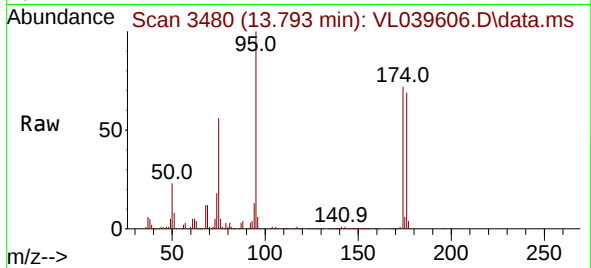




#68
1-Bromo-4-Fluorobenzene
Concen: 9.591 ppbv
RT: 13.793 min Scan# 3480
Delta R.T. 0.017 min
Lab File: VL039606.D
Acq: 31 Aug 2022 13:24

Instrument :
MSVOA_L
ClientSampleId :
SVE-EFF-082222DL

Tgt Ion: 95 Resp: 1654408
Ion Ratio Lower Upper
95 100
174 74.3 55.9 83.9
175 5.8 4.2 6.4



#80
Naphthalene,2-methyl-
Concen: 0.039 ppbv
RT: 24.384 min Scan# 6774
Delta R.T. 0.007 min
Lab File: VL039606.D
Acq: 31 Aug 2022 13:24

Tgt Ion:142 Resp: 3004
Ion Ratio Lower Upper
142 100
141 134.7 68.9 103.3#
115 36.7 30.0 45.0

