

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL083122\
 Data File : VL039609.D
 Acq On : 31 Aug 2022 15:24
 Operator : SY/AP
 Sample : N4408-01DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVE-IN-082222DL

Quant Time: Sep 11 06:44:25 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081722AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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)

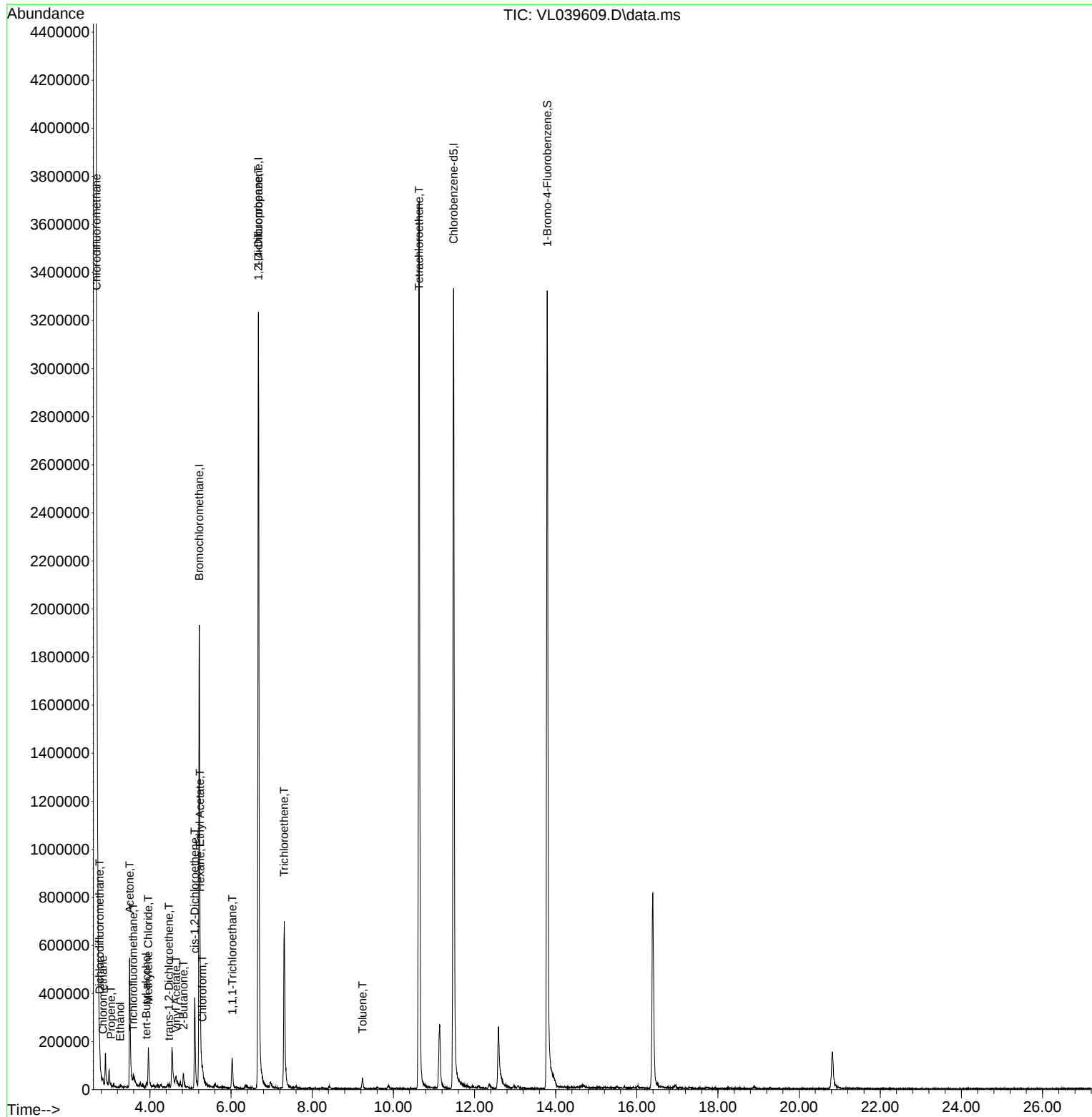
Internal Standards						
1) Bromochloromethane	5.217	49	971102	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.674	114	2510066	10.000	ppbv	0.01
55) Chlorobenzene-d5	11.484	117	2215721	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.793	95	1612022	9.644	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.761	85	25430	0.197	ppbv	96
3) Chlorodifluoromethane	2.680	51	32022	0.277	ppbv #	70
4) Chloromethane	2.838	50	6027	0.086	ppbv #	73
9) Propene	3.044	41	2133	0.040	ppbv	98
11) Trichlorofluoromethane	3.587	101	19940	0.141	ppbv	84
13) Ethanol	3.266	45	4138	1.088	ppbv #	23
15) Acetone	3.500	43	591345	5.436	ppbv	92
17) tert-Butyl alcohol	3.915	59	4671	0.050	ppbv #	25
20) Methylene Chloride	3.960	84	52398	1.186	ppbv	92
22) trans-1,2-Dichloroethene	4.471	96	1761	0.037	ppbv #	37
23) Vinyl Acetate	4.648	43	10357	0.200	ppbv #	64
25) Ethyl Acetate	5.233	43	15461	0.066	ppbv #	49
26) Hexane	5.237	57	20936	0.220	ppbv #	43
29) Chloroform	5.295	83	9503	0.064	ppbv	96
31) cis-1,2-Dichloroethene	5.105	61	217143	2.360	ppbv	96
32) 1,1,1-Trichloroethane	6.031	97	75787	0.580	ppbv	98
34) 2-Butanone	4.825	43	69499	0.557	ppbv	94
38) Trichloroethene	7.311	130	219936	2.145	ppbv	93
39) 1,2-Dichloropropane	6.671	63	593503	8.250	ppbv #	25
52) Tetrachloroethene	10.632	164	937738	12.954	ppbv	96
53) Toluene	9.240	91	14751	0.069	ppbv #	33

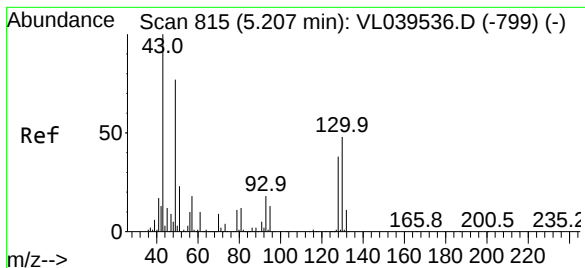
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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
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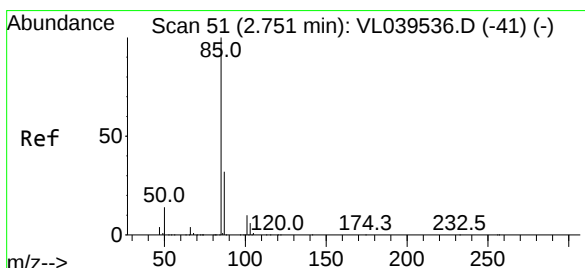
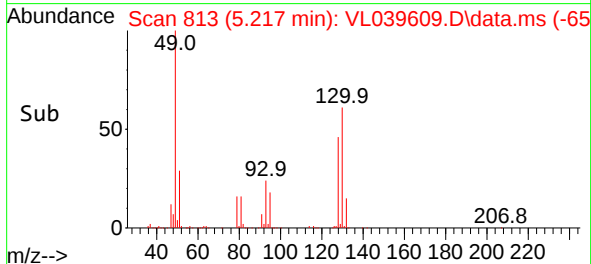
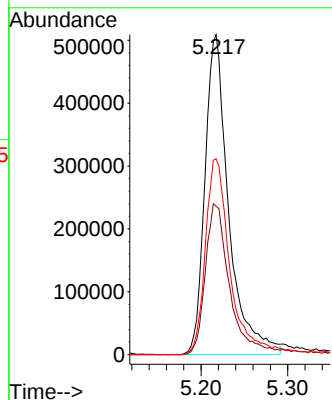
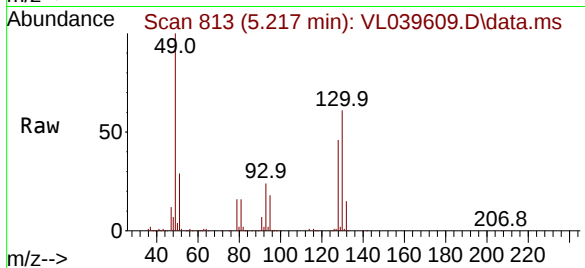




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.217 min Scan# 81
 Delta R.T. 0.010 min
 Lab File: VL039609.D
 Acq: 31 Aug 2022 15:24

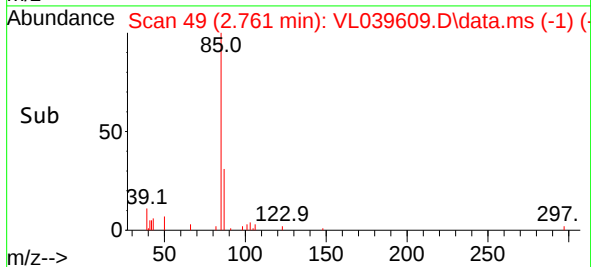
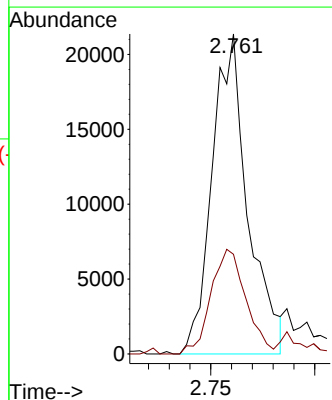
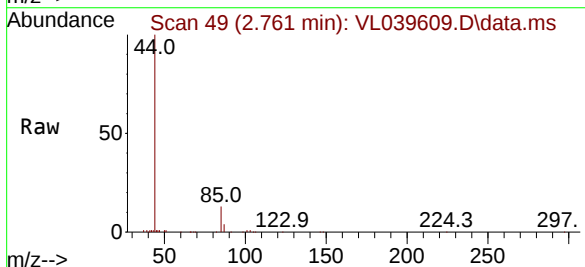
Instrument :
 MSVOA_L
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 SVE-IN-082222DL

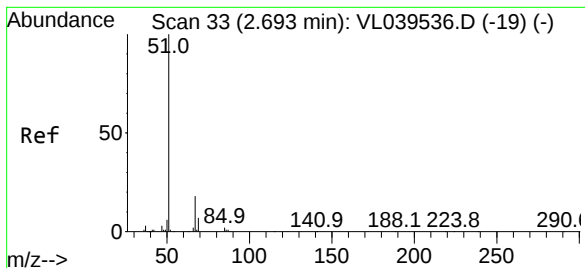
Tgt Ion: 49 Resp: 971102
 Ion Ratio Lower Upper
 49 100
 128 49.2 26.7 80.0
 130 64.6 34.3 102.8



#2
 Dichlorodifluoromethane
 Concen: 0.197 ppbv
 RT: 2.761 min Scan# 49
 Delta R.T. 0.010 min
 Lab File: VL039609.D
 Acq: 31 Aug 2022 15:24

Tgt Ion: 85 Resp: 25430
 Ion Ratio Lower Upper
 85 100
 87 31.1 26.7 40.1

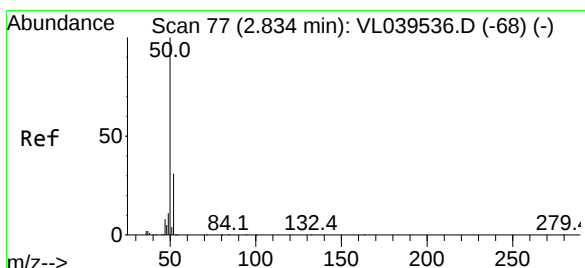
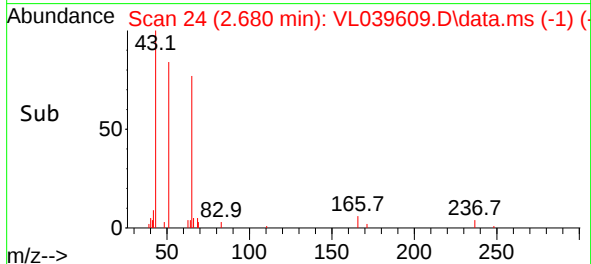
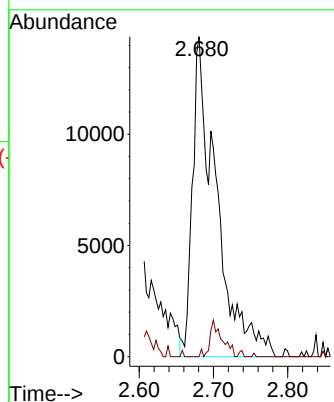
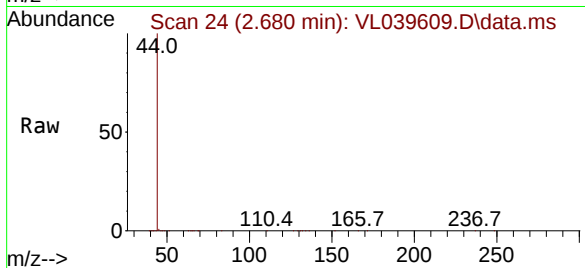




#3
Chlorodifluoromethane
Concen: 0.277 ppbv
RT: 2.680 min Scan# 24
Delta R.T. -0.012 min
Lab File: VL039609.D
Acq: 31 Aug 2022 15:24

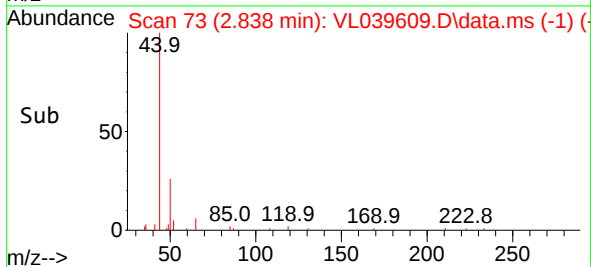
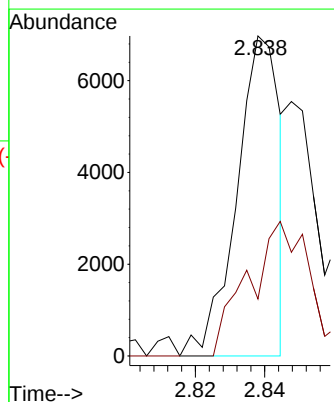
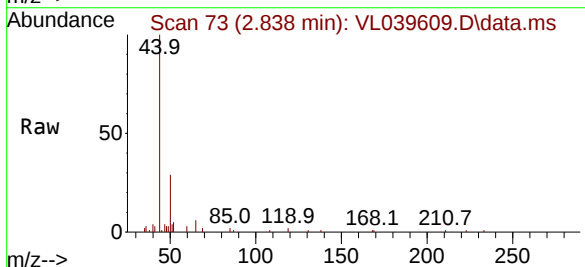
Instrument :
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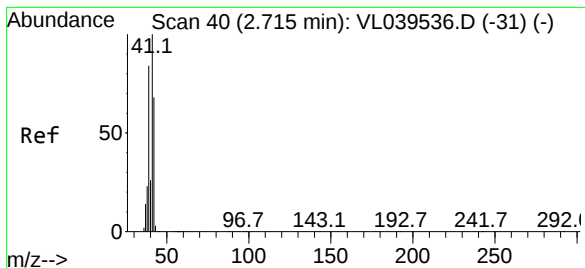
Tgt Ion: 51 Resp: 32022
Ion Ratio Lower Upper
51 100
67 6.1 15.7 23.5#



#4
Chloromethane
Concen: 0.086 ppbv
RT: 2.838 min Scan# 73
Delta R.T. 0.004 min
Lab File: VL039609.D
Acq: 31 Aug 2022 15:24

Tgt Ion: 50 Resp: 6027
Ion Ratio Lower Upper
50 100
52 17.8 26.5 39.7#





#9

Propene

Concen: 0.040 ppbv

RT: 3.044 min Scan# 11

Delta R.T. 0.328 min

Lab File: VL039609.D

Acq: 31 Aug 2022 15:24

Instrument :

MSVOA_L

ClientSampleId :

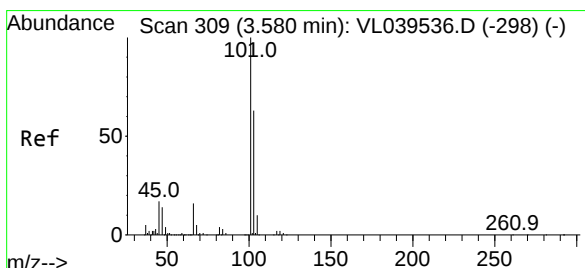
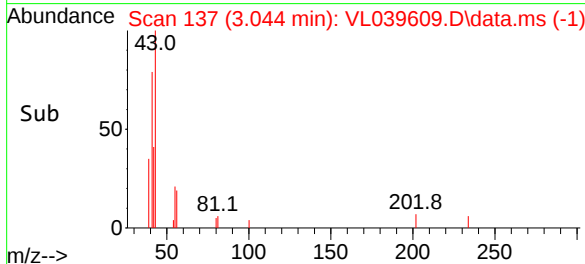
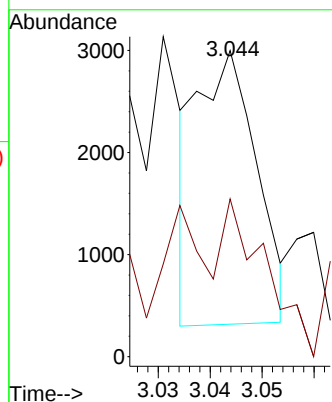
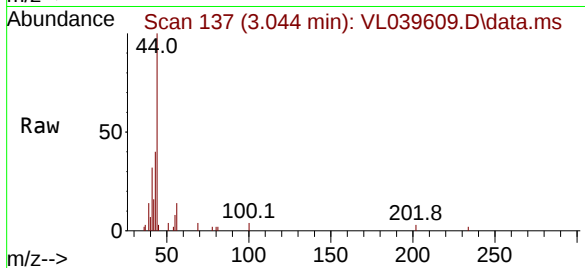
SVE-IN-082222DL

Tgt Ion: 41 Resp: 2133

Ion Ratio Lower Upper

41 100

42 71.0 55.2 82.8



#11

Trichlorofluoromethane

Concen: 0.141 ppbv

RT: 3.587 min Scan# 306

Delta R.T. 0.007 min

Lab File: VL039609.D

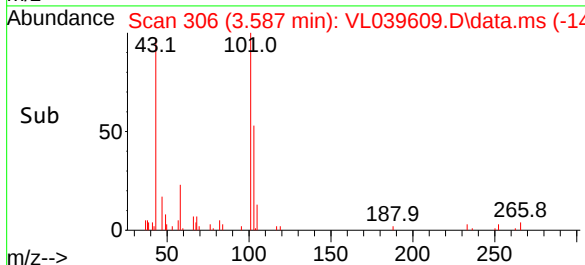
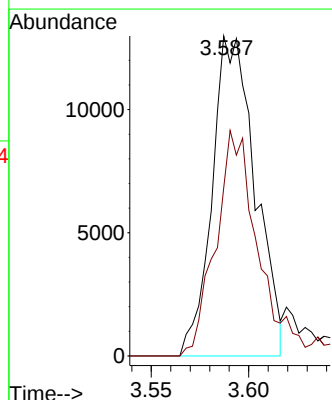
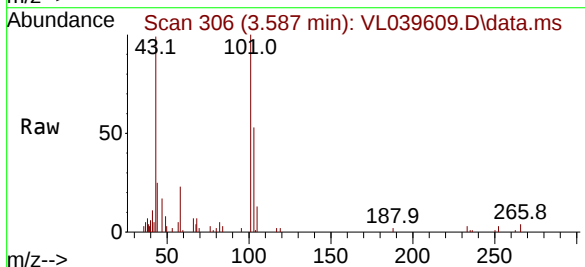
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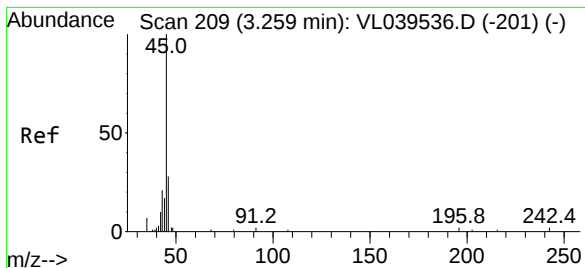
Tgt Ion:101 Resp: 19940

Ion Ratio Lower Upper

101 100

103 52.5 51.8 77.8

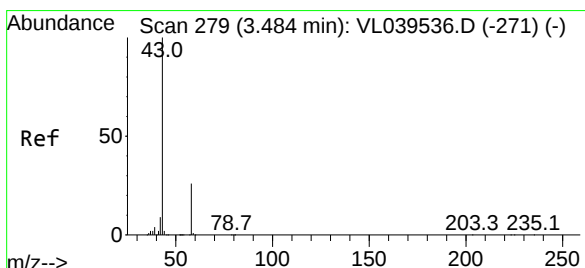
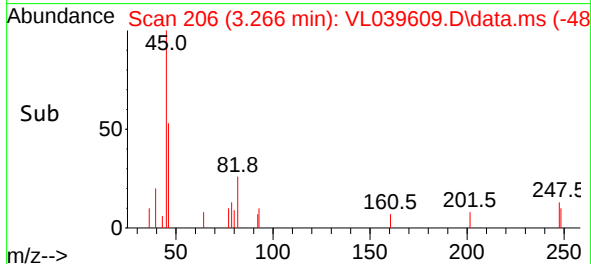
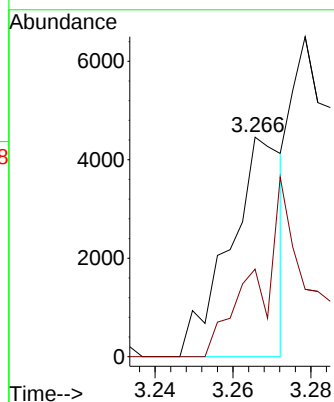
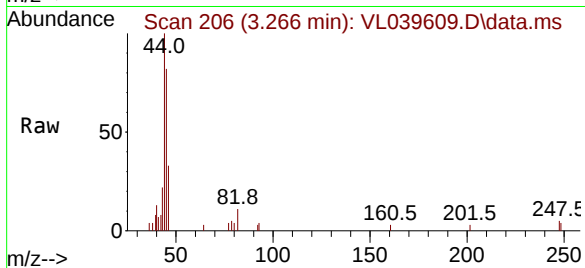




#13
Ethanol
Concen: 1.088 ppbv
RT: 3.266 min Scan# 209
Delta R.T. 0.007 min
Lab File: VL039609.D
Acq: 31 Aug 2022 15:24

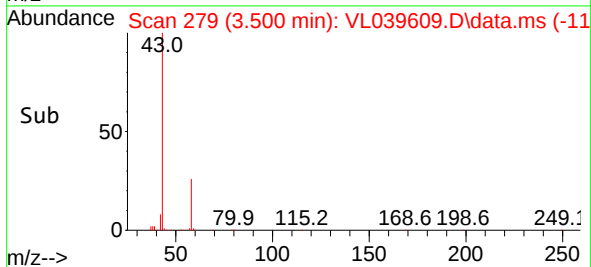
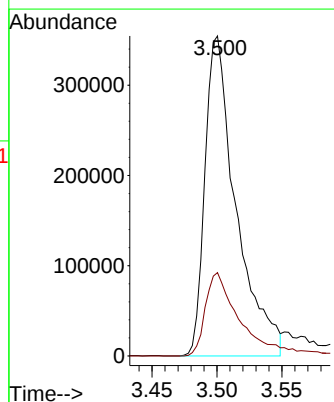
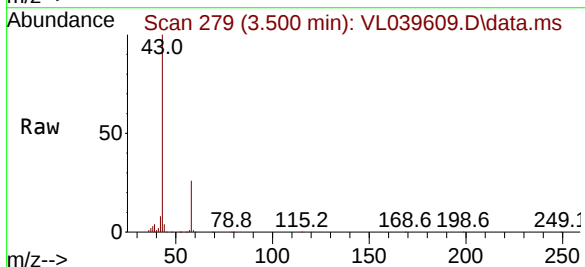
Instrument :
MSVOA_L
ClientSampleId :
SVE-IN-082222DL

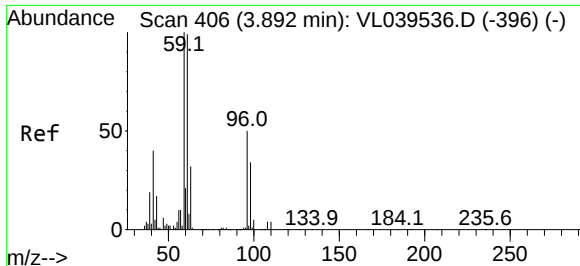
Tgt Ion: 45 Resp: 4138
Ion Ratio Lower Upper
45 100
46 0.0 22.8 91.2#



#15
Acetone
Concen: 5.436 ppbv
RT: 3.500 min Scan# 279
Delta R.T. 0.017 min
Lab File: VL039609.D
Acq: 31 Aug 2022 15:24

Tgt Ion: 43 Resp: 591345
Ion Ratio Lower Upper
43 100
58 30.6 21.0 31.6





#17

tert-Butyl alcohol

Concen: 0.050 ppbv

RT: 3.915 min Scan# 406

Delta R.T. 0.023 min

Lab File: VL039609.D

Acq: 31 Aug 2022 15:24

Instrument :

MSVOA_L

ClientSampleId :

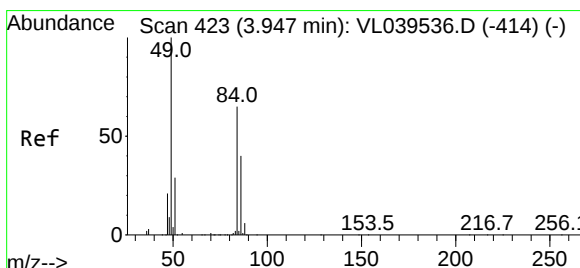
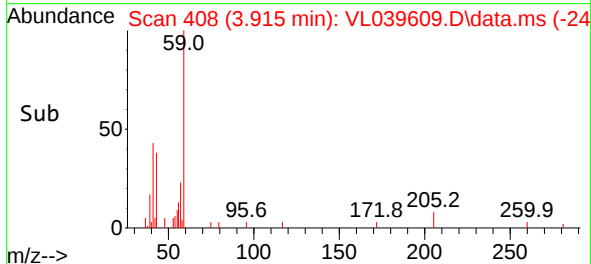
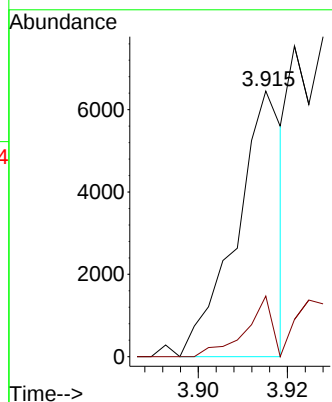
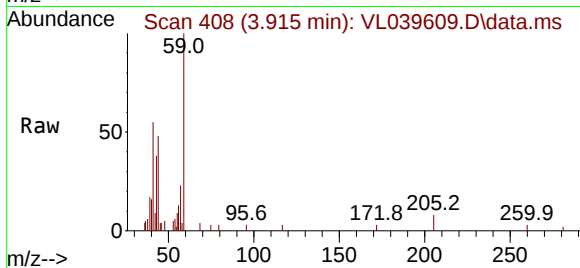
SVE-IN-082222DL

Tgt Ion: 59 Resp: 4671

Ion Ratio Lower Upper

59 100

57 39.3 8.7 13.1#



#20

Methylene Chloride

Concen: 1.186 ppbv

RT: 3.960 min Scan# 422

Delta R.T. 0.013 min

Lab File: VL039609.D

Acq: 31 Aug 2022 15:24

Tgt Ion: 84 Resp: 52398

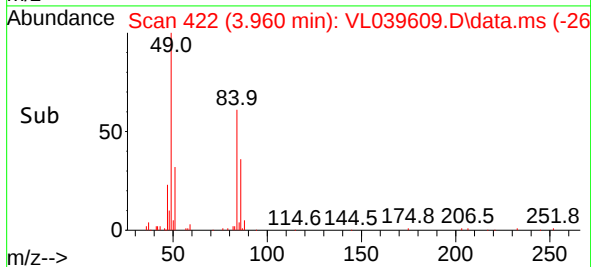
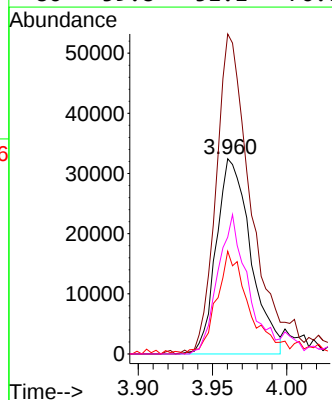
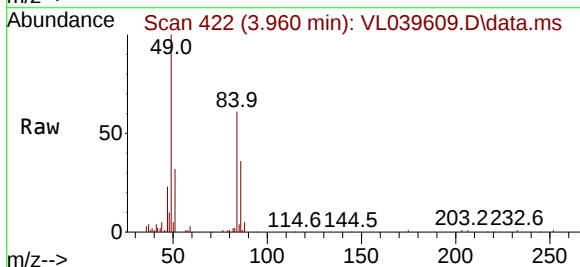
Ion Ratio Lower Upper

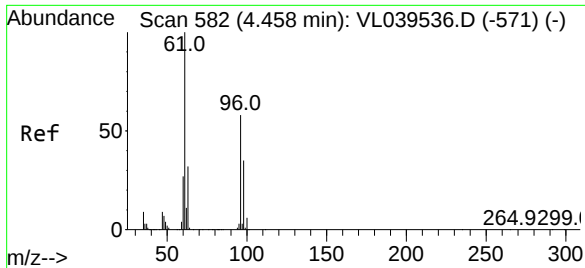
84 100

49 163.4 123.1 184.7

51 51.6 34.4 51.6

86 59.8 51.1 76.7

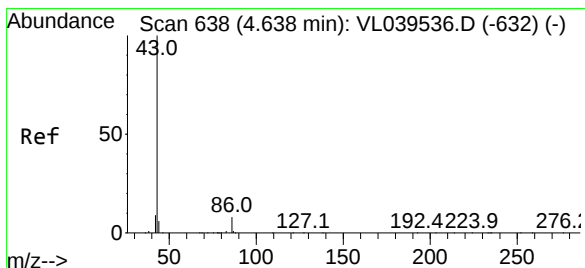
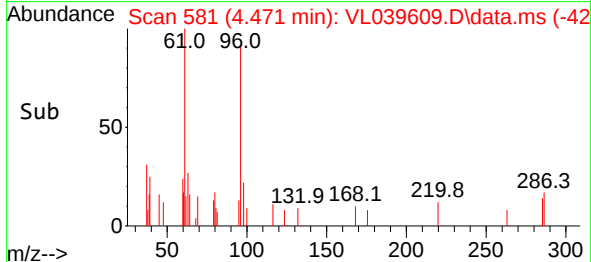
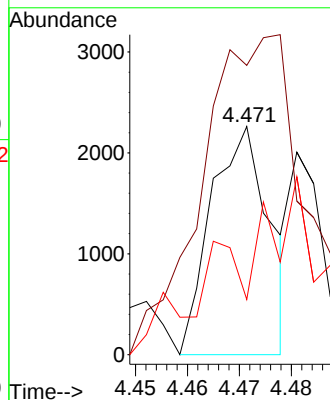
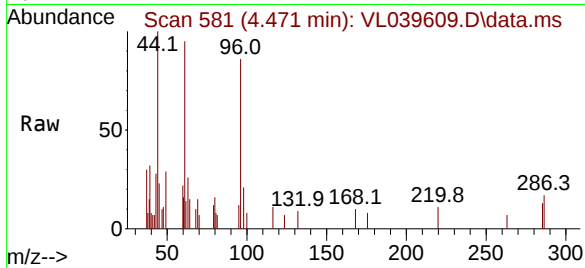




#22
trans-1,2-Dichloroethene
Concen: 0.037 ppbv
RT: 4.471 min Scan# 581
Delta R.T. 0.013 min
Lab File: VL039609.D
Acq: 31 Aug 2022 15:24

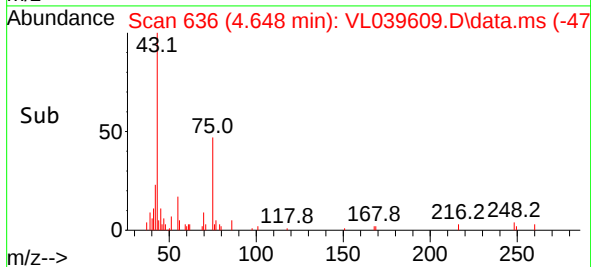
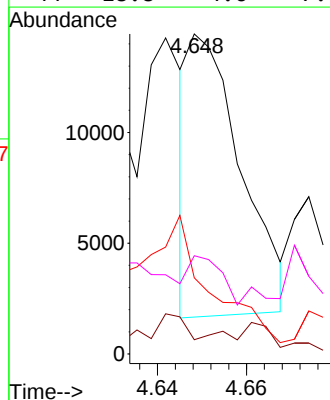
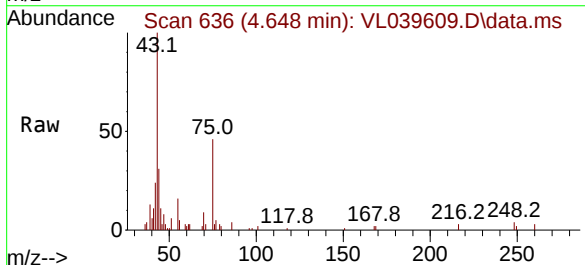
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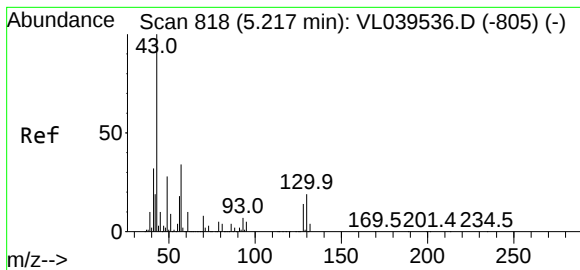
Tgt Ion:	96	Resp:	1761
Ion	Ratio	Lower	Upper
96	100		
61	84.1	130.6	195.8#
98	7.8	53.4	80.0#



#23
Vinyl Acetate
Concen: 0.200 ppbv
RT: 4.648 min Scan# 636
Delta R.T. 0.010 min
Lab File: VL039609.D
Acq: 31 Aug 2022 15:24

Tgt Ion:	43	Resp:	10357
Ion	Ratio	Lower	Upper
43	100		
86	3.3	5.0	7.6#
42	28.4	7.7	11.5#
44	18.8	4.6	7.0#

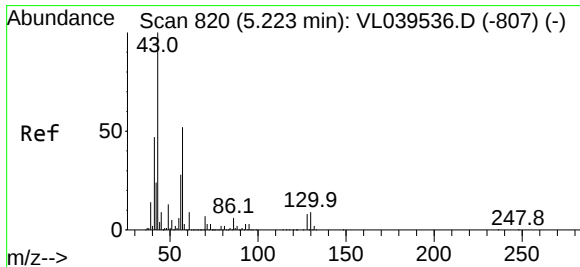
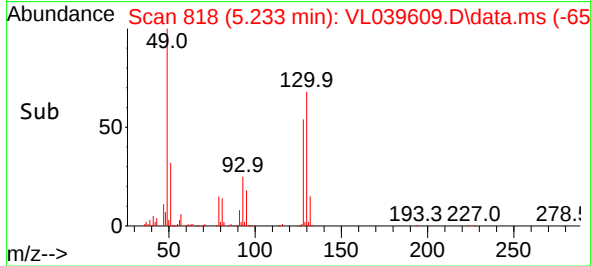
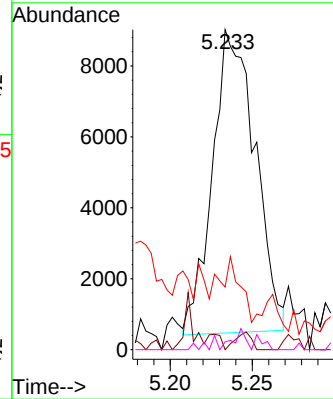
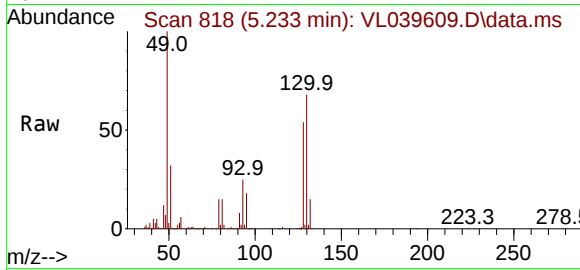




#25
Ethyl Acetate
Concen: 0.066 ppbv
RT: 5.233 min Scan# 818
Delta R.T. 0.017 min
Lab File: VL039609.D
Acq: 31 Aug 2022 15:24

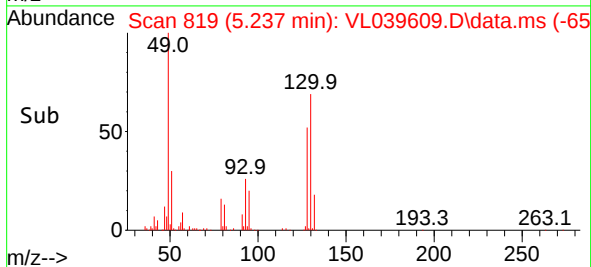
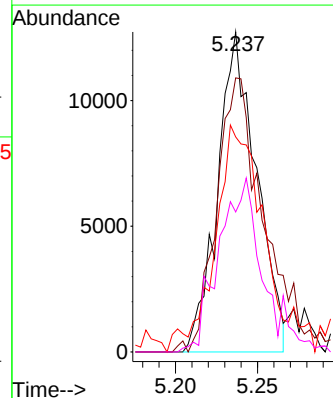
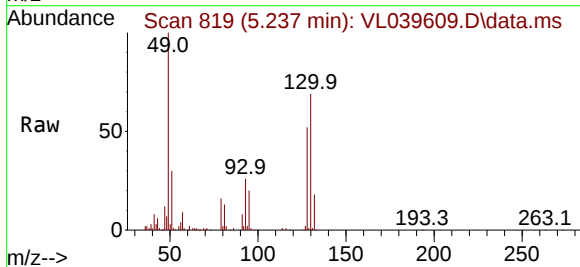
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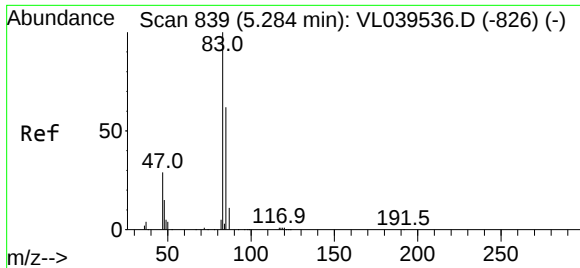
Tgt Ion:	43	Resp:	15461
Ion	Ratio	Lower	Upper
43	100		
45	9.2	8.2	12.4
61	58.3	8.3	12.5#
70	3.9	5.9	8.9#



#26
Hexane
Concen: 0.220 ppbv
RT: 5.237 min Scan# 819
Delta R.T. 0.013 min
Lab File: VL039609.D
Acq: 31 Aug 2022 15:24

Tgt Ion:	57	Resp:	20936
Ion	Ratio	Lower	Upper
57	100		
41	105.5	76.9	115.3
43	93.6	191.0	286.6#
56	62.9	43.2	64.8





#29

Chloroform

Concen: 0.064 ppbv

RT: 5.295 min Scan# 81

Delta R.T. 0.010 min

Lab File: VL039609.D

Acq: 31 Aug 2022 15:24

Instrument :

MSVOA_L

ClientSampleId :

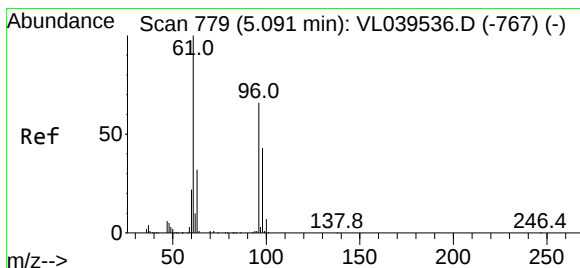
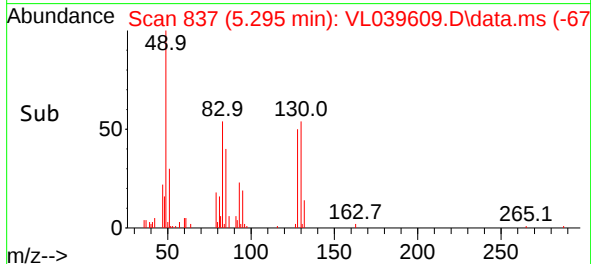
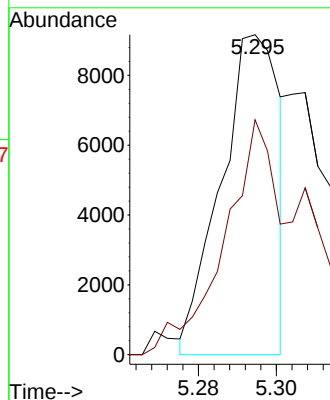
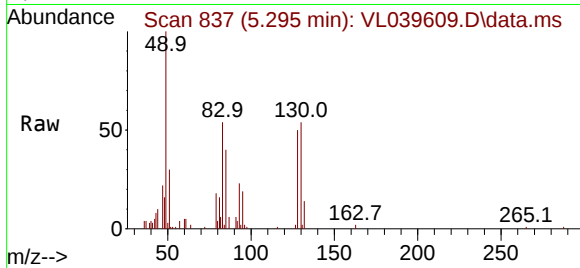
SVE-IN-082222DL

Tgt Ion: 83 Resp: 9503

Ion Ratio Lower Upper

83 100

85 68.8 52.8 79.2



#31

cis-1,2-Dichloroethene

Concen: 2.360 ppbv

RT: 5.105 min Scan# 778

Delta R.T. 0.013 min

Lab File: VL039609.D

Acq: 31 Aug 2022 15:24

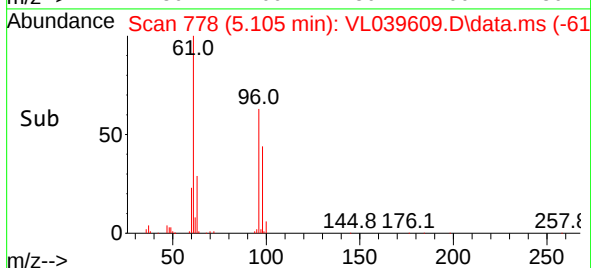
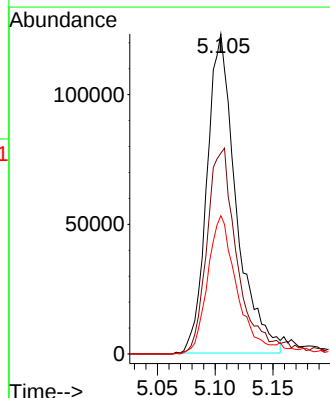
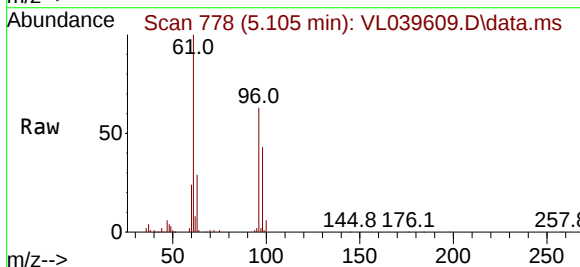
Tgt Ion: 61 Resp: 217143

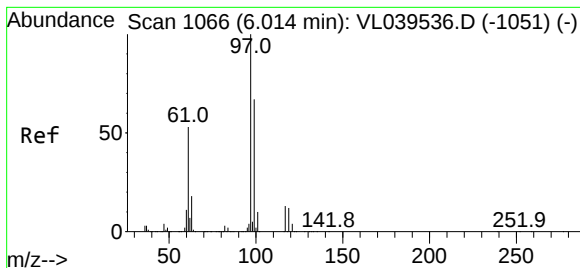
Ion Ratio Lower Upper

61 100

96 62.6 54.1 81.1

98 43.3 34.6 52.0





#32

1,1,1-Trichloroethane

Concen: 0.580 ppbv

RT: 6.031 min Scan# 1066

Delta R.T. 0.017 min

Lab File: VL039609.D

Acq: 31 Aug 2022 15:24

Instrument :

MSVOA_L

ClientSampleId :

SVE-IN-082222DL

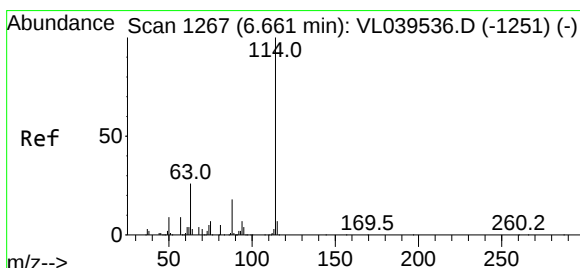
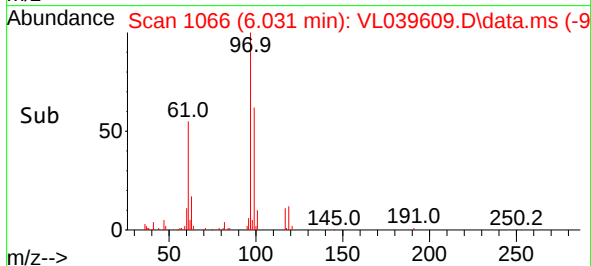
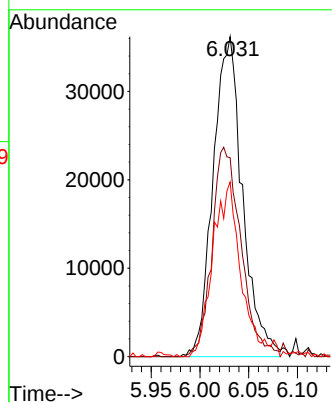
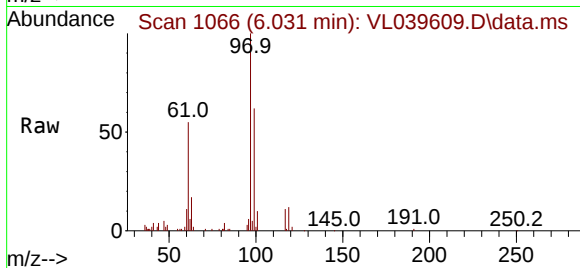
Tgt Ion: 97 Resp: 75787

Ion Ratio Lower Upper

97 100

99 66.2 52.3 78.5

61 53.7 40.9 61.3



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.674 min Scan# 1266

Delta R.T. 0.013 min

Lab File: VL039609.D

Acq: 31 Aug 2022 15:24

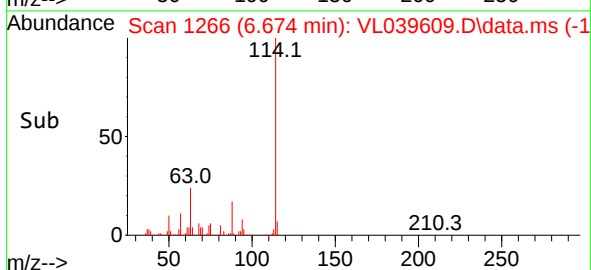
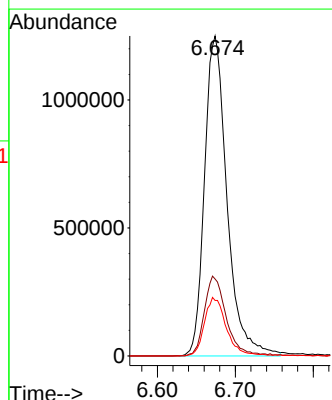
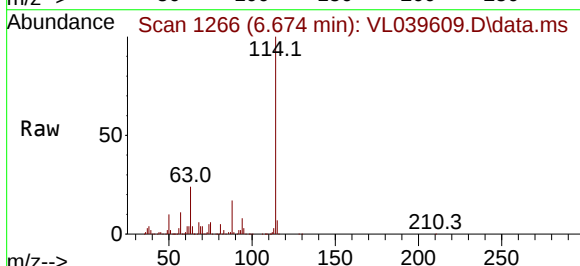
Tgt Ion: 114 Resp: 2510066

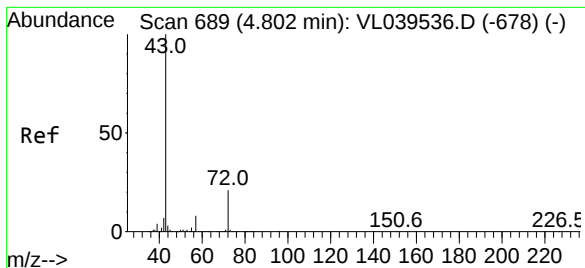
Ion Ratio Lower Upper

114 100

63 24.7 20.2 30.4

88 18.0 14.5 21.7

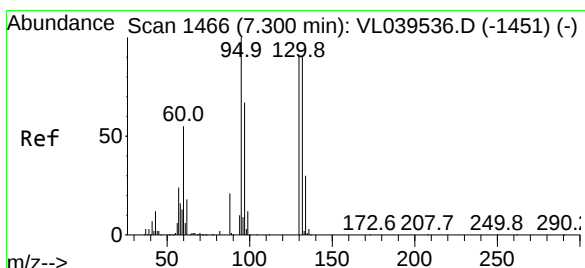
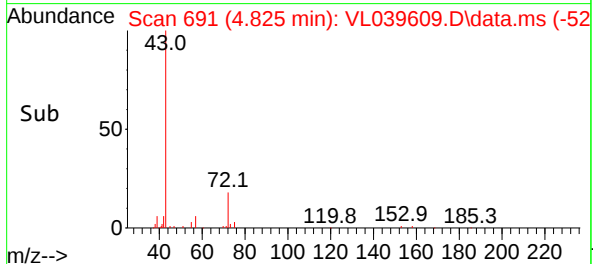
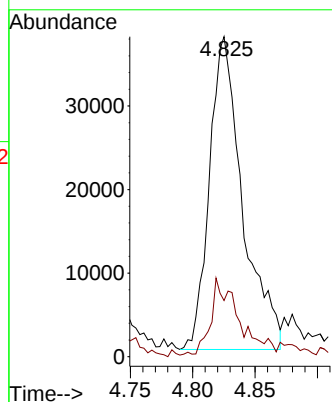
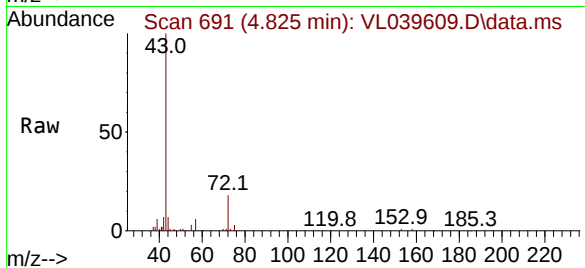




#34
2-Butanone
Concen: 0.557 ppbv
RT: 4.825 min Scan# 691
Delta R.T. 0.023 min
Lab File: VL039609.D
Acq: 31 Aug 2022 15:24

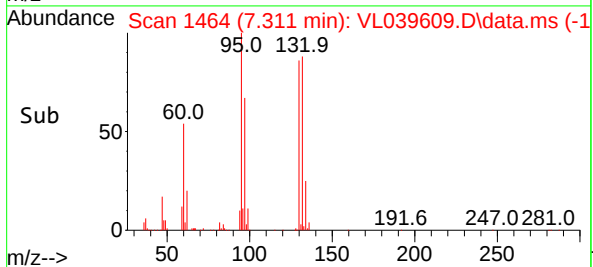
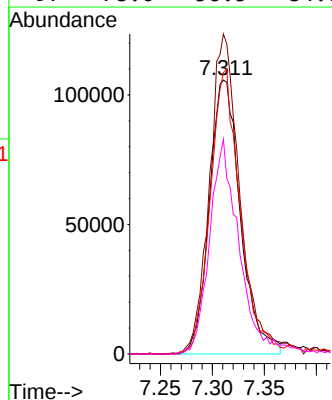
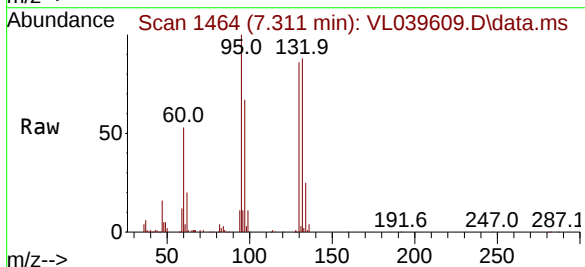
Instrument :
MSVOA_L
ClientSampleId :
SVE-IN-082222DL

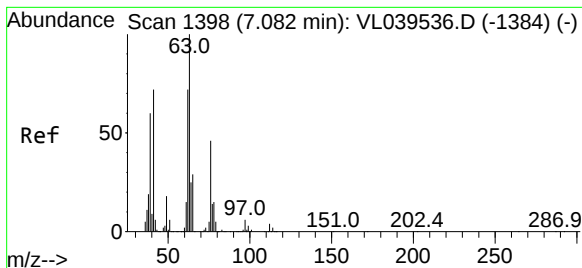
Tgt Ion: 43 Resp: 69499
Ion Ratio Lower Upper
43 100
72 25.3 17.9 26.9



#38
Trichloroethene
Concen: 2.145 ppbv
RT: 7.311 min Scan# 1464
Delta R.T. 0.010 min
Lab File: VL039609.D
Acq: 31 Aug 2022 15:24

Tgt Ion:130 Resp: 219936
Ion Ratio Lower Upper
130 100
95 116.6 87.3 130.9
132 101.8 76.7 115.1
97 78.0 56.5 84.7

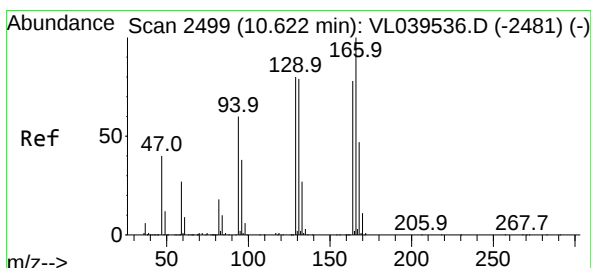
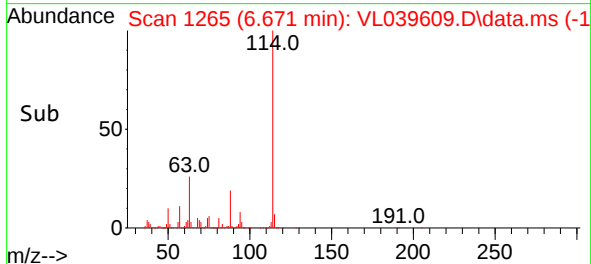
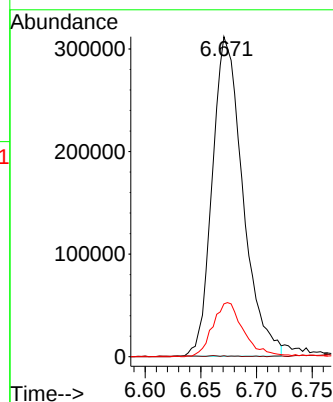
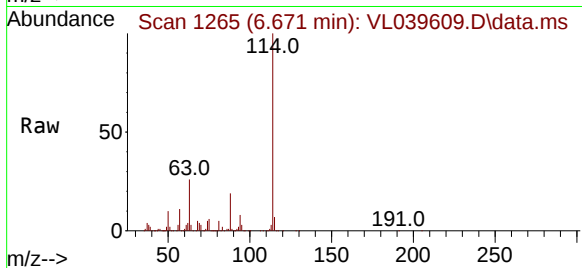




#39
1,2-Dichloropropane
Concen: 8.250 ppbv
RT: 6.671 min Scan# 11
Delta R.T. -0.411 min
Lab File: VL039609.D
Acq: 31 Aug 2022 15:24

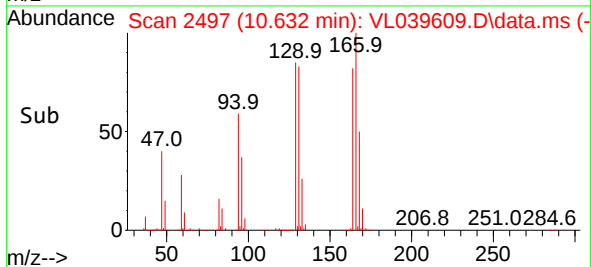
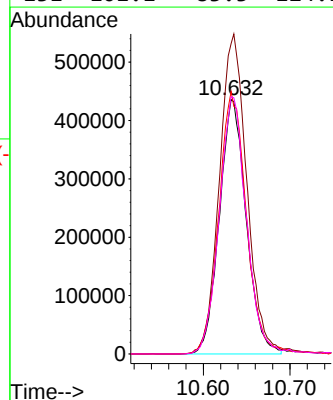
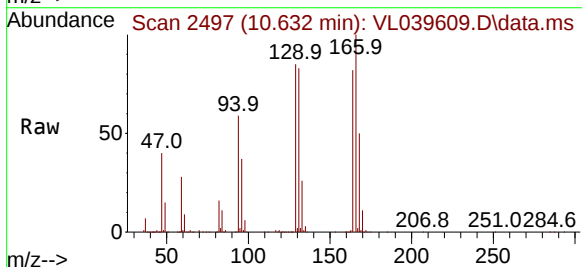
Instrument :
MSVOA_L
ClientSampleId :
SVE-IN-082222DL

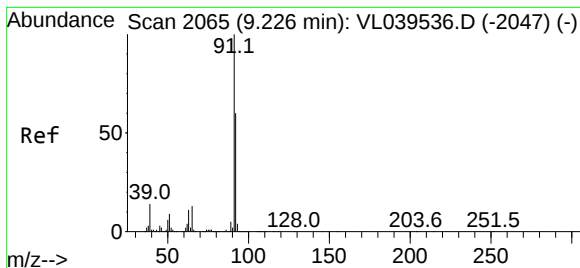
Tgt Ion: 63 Resp: 593503
Ion Ratio Lower Upper
63 100
41 0.1 59.6 89.4#
62 16.4 51.4 77.0#



#52
Tetrachloroethene
Concen: 12.954 ppbv
RT: 10.632 min Scan# 2497
Delta R.T. 0.010 min
Lab File: VL039609.D
Acq: 31 Aug 2022 15:24

Tgt Ion:164 Resp: 937738
Ion Ratio Lower Upper
164 100
166 122.0 102.2 153.2
129 103.1 85.8 128.8
131 101.1 83.3 124.9





#53

Toluene

Concen: 0.069 ppbv

RT: 9.240 min Scan# 2065

Delta R.T. 0.013 min

Lab File: VL039609.D

Acq: 31 Aug 2022 15:24

Instrument :

MSVOA_L

ClientSampleId :

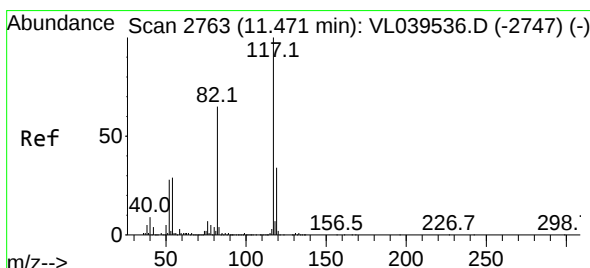
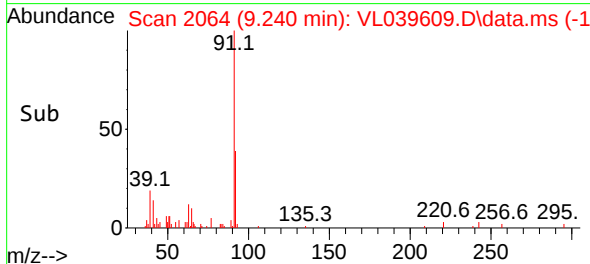
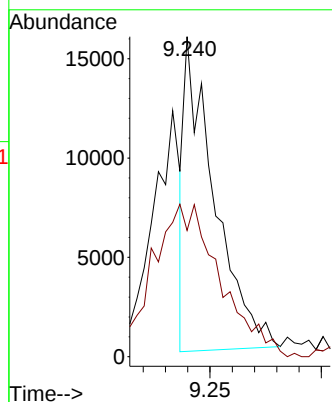
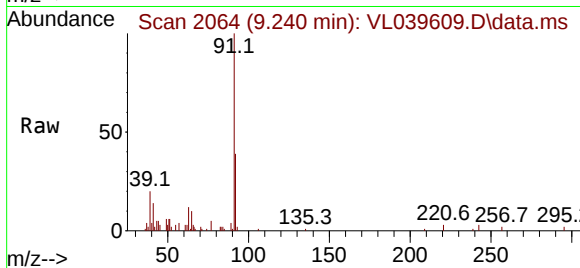
SVE-IN-082222DL

Tgt Ion: 91 Resp: 14751

Ion Ratio Lower Upper

91 100

92 111.2 48.2 72.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.484 min Scan# 2762

Delta R.T. 0.013 min

Lab File: VL039609.D

Acq: 31 Aug 2022 15:24

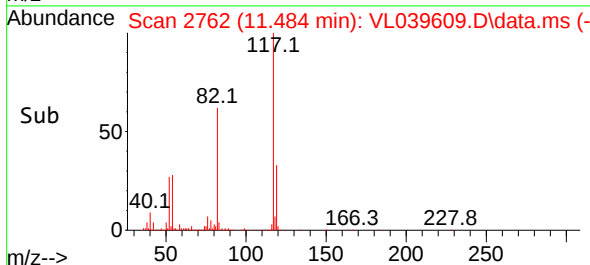
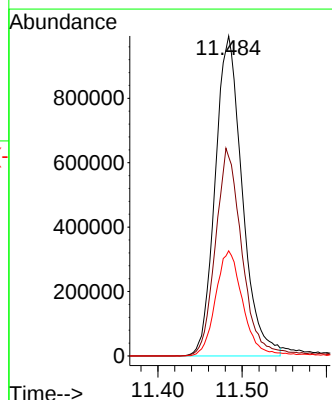
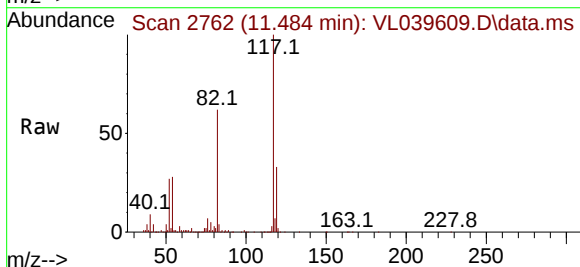
Tgt Ion: 117 Resp: 2215721

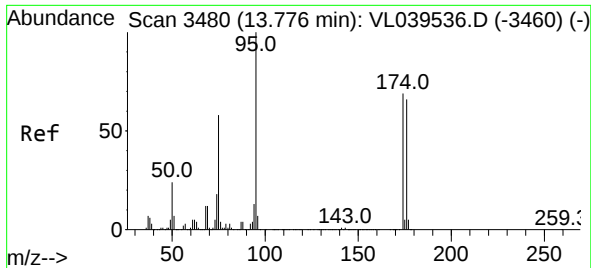
Ion Ratio Lower Upper

117 100

82 65.2 50.8 76.2

119 33.5 24.1 36.1





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.644 ppbv
 RT: 13.793 min Scan# 34
 Delta R.T. 0.017 min
 Lab File: VL039609.D
 Acq: 31 Aug 2022 15:24

Instrument :
 MSVOA_L
 ClientSampleId :
 SVE-IN-082222DL

Tgt Ion: 95 Resp: 1612022

Ion	Ratio	Lower	Upper
95	100		
174	73.1	55.9	83.9
175	5.2	4.2	6.4

