

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112222\
 Data File : VL039927.D
 Acq On : 22 Nov 2022 22:08
 Operator : SY/AP
 Sample : N5767-04DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DL

Quant Time: Nov 23 04:52:25 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Nov 22 03:45:31 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.173	49	984114	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.636	114	2759608	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.452	117	2401160	10.000	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	1907101	10.398	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.000%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.706	85	28027	0.199	ppbv	95
3) Chlorodifluoromethane	2.636	51	35754	0.263	ppbv #	78
4) Chloromethane	2.790	50	6962	0.080	ppbv	93
9) Propene	2.851	41	24151	0.378	ppbv	87
11) Trichlorofluoromethane	3.539	101	9659	0.056	ppbv #	71
13) Ethanol	3.237	45	36215	7.415	ppbv	78
15) Acetone	3.459	43	112078	0.859	ppbv	98
16) 1,3-Butadiene	2.948	39	3263	0.050	ppbv	86
19) Isopropyl Alcohol	3.575	45	6671	0.094	ppbv #	29
20) Methylene Chloride	3.912	84	78205	1.237	ppbv	98
23) Vinyl Acetate	4.610	43	2691	0.050	ppbv #	63
25) Ethyl Acetate	5.192	43	46949	0.196	ppbv #	79
26) Hexane	5.192	57	34284	0.327	ppbv #	32
29) Chloroform	5.253	83	157562	1.132	ppbv	94
30) Cyclohexane	6.591	84	3108	0.030	ppbv #	1
34) 2-Butanone	4.793	43	6407	0.049	ppbv #	55
36) Benzene	6.353	78	20144	0.086	ppbv #	81
39) 1,2-Dichloropropane	6.636	63	670896	7.341	ppbv #	28
52) Tetrachloroethene	10.606	164	4931	0.056	ppbv #	72
53) Toluene	9.208	91	26885	0.101	ppbv #	51
59) m/p-Xylene	12.359	91	8988	0.033	ppbv #	1

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

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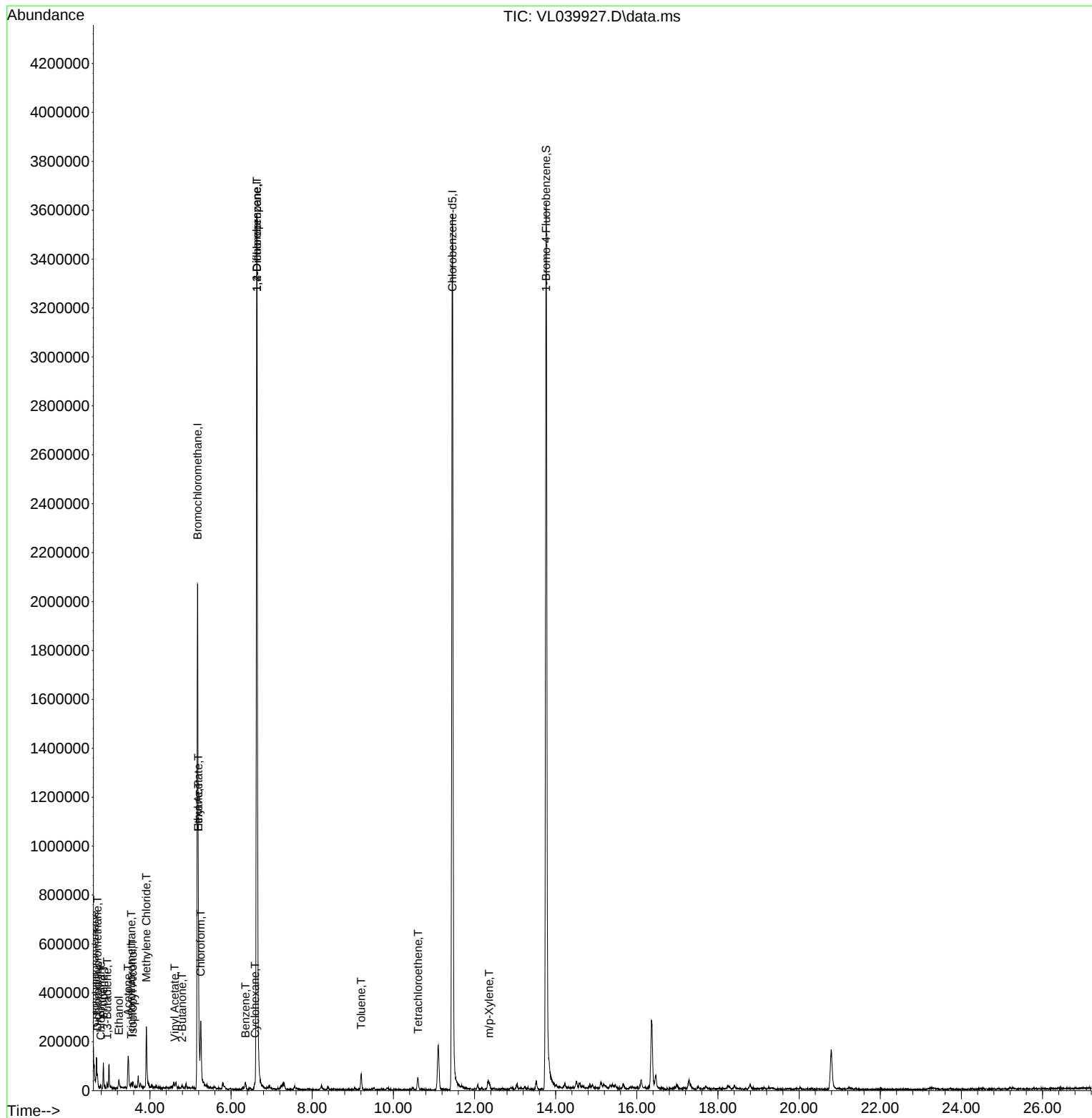
Quant Time: Nov 23 04:52:25 2022

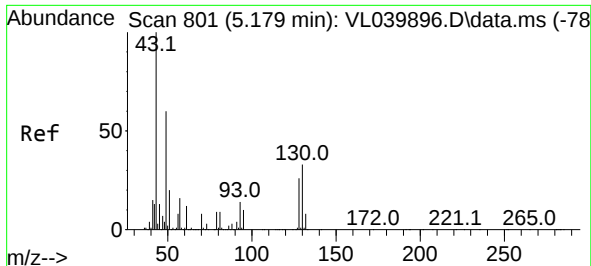
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M

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

QLast Update : Tue Nov 22 03:45:31 2022

Response via : Initial Calibration

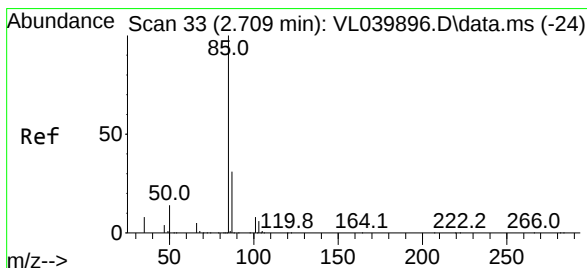
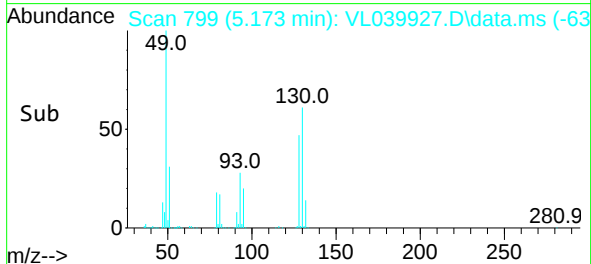
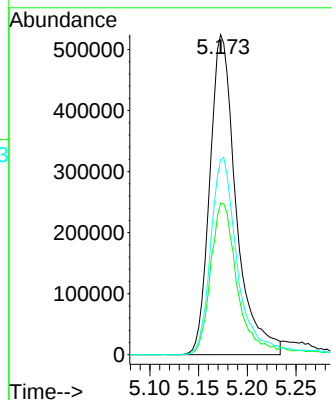
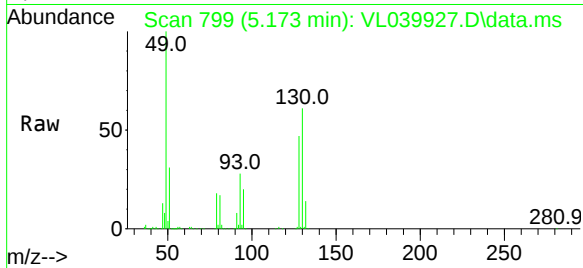




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.173 min Scan# 79
 Delta R.T. 0.017 min
 Lab File: VL039927.D
 Acq: 22 Nov 2022 22:08

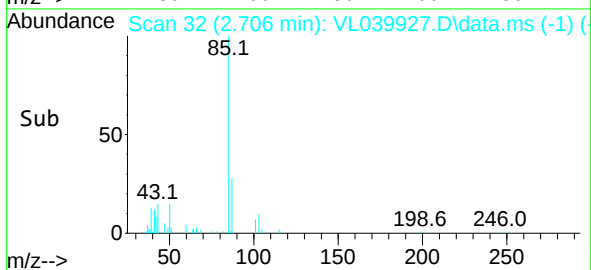
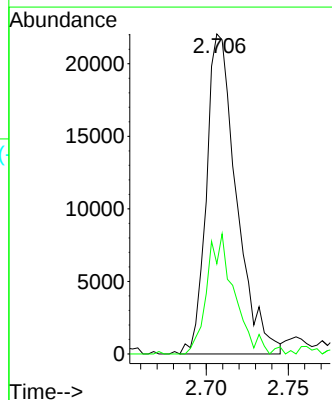
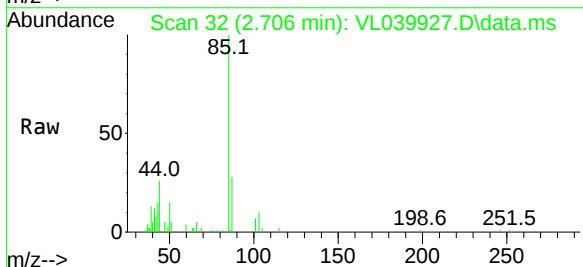
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DL

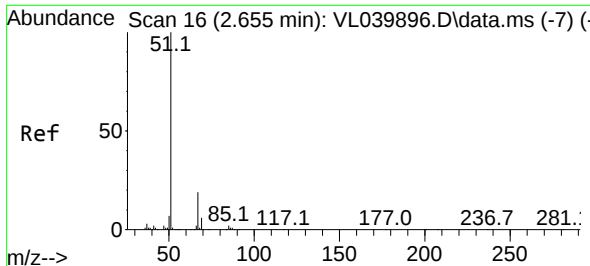
Tgt Ion: 49 Resp: 984114
 Ion Ratio Lower Upper
 49 100
 128 50.3 22.1 66.3
 130 64.5 27.7 83.1



#2
 Dichlorodifluoromethane
 Concen: 0.199 ppbv
 RT: 2.706 min Scan# 32
 Delta R.T. 0.010 min
 Lab File: VL039927.D
 Acq: 22 Nov 2022 22:08

Tgt Ion: 85 Resp: 28027
 Ion Ratio Lower Upper
 85 100
 87 28.2 25.0 37.4

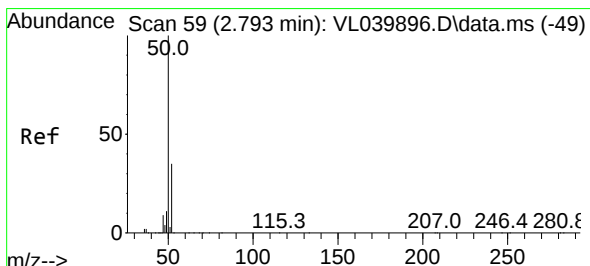
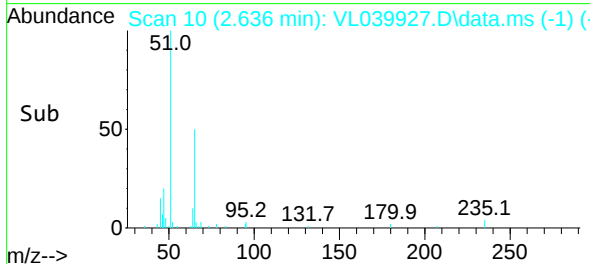
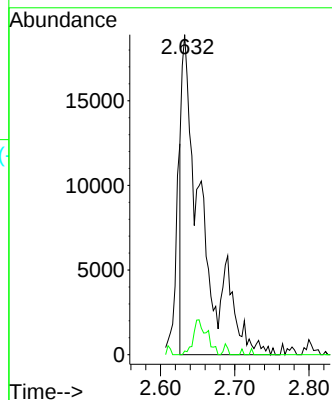
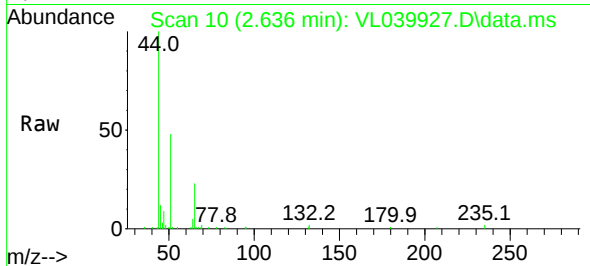




#3
Chlorodifluoromethane
Concen: 0.263 ppbv
RT: 2.636 min Scan# 10
Delta R.T. -0.006 min
Lab File: VL039927.D
Acq: 22 Nov 2022 22:08

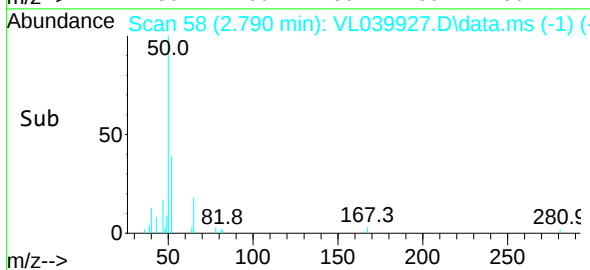
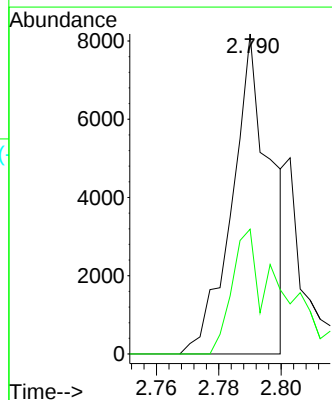
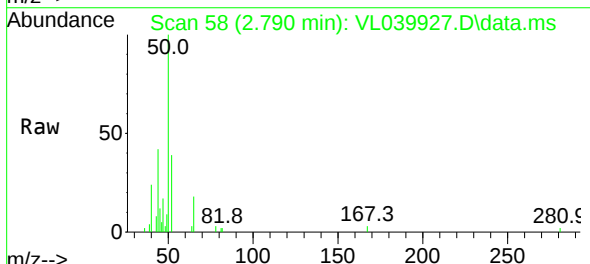
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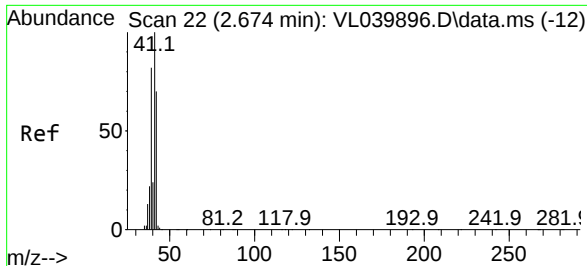
Tgt Ion: 51 Resp: 35754
Ion Ratio Lower Upper
51 100
67 8.1 14.2 21.4#



#4
Chloromethane
Concen: 0.080 ppbv
RT: 2.790 min Scan# 58
Delta R.T. 0.010 min
Lab File: VL039927.D
Acq: 22 Nov 2022 22:08

Tgt Ion: 50 Resp: 6962
Ion Ratio Lower Upper
50 100
52 39.0 27.8 41.8

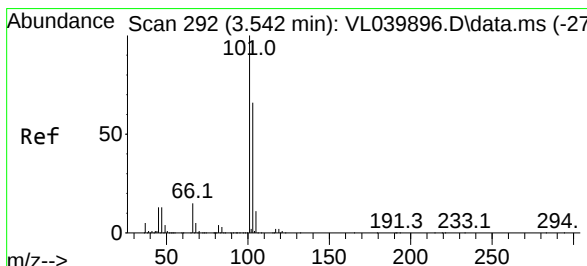
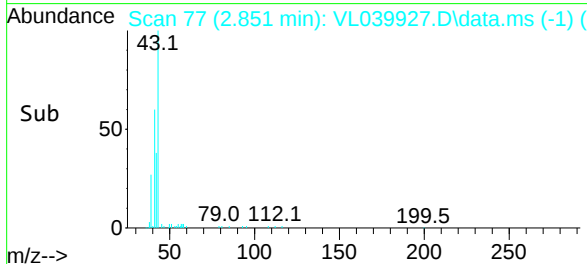
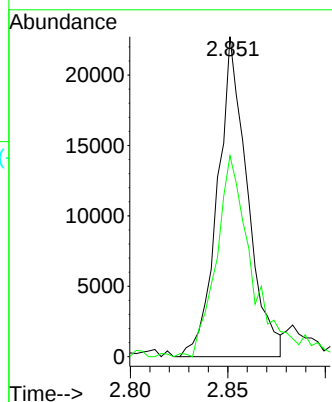
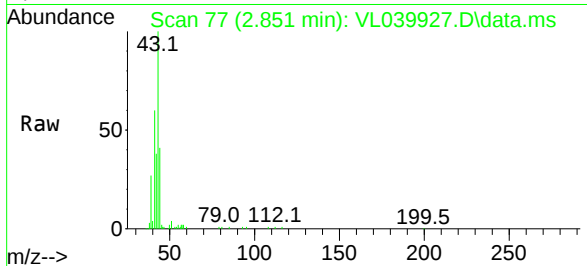




#9
Propene
Concen: 0.378 ppbv
RT: 2.851 min Scan# 71
Delta R.T. 0.190 min
Lab File: VL039927.D
Acq: 22 Nov 2022 22:08

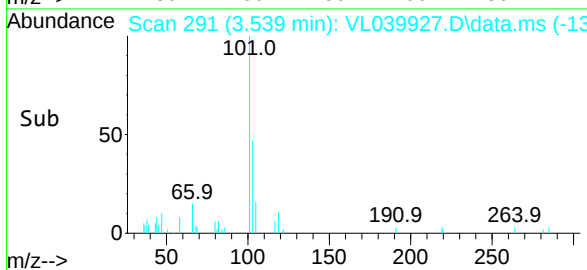
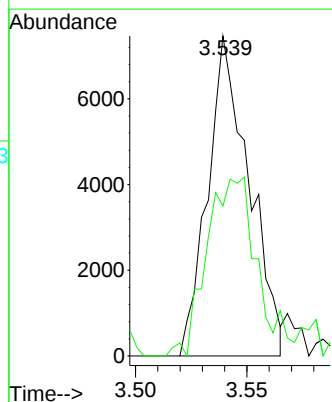
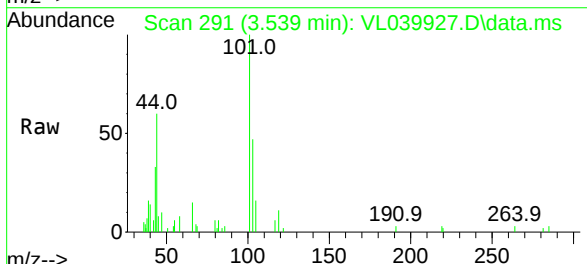
Instrument :
MSVOA_L
ClientSampleId :
IA2DL

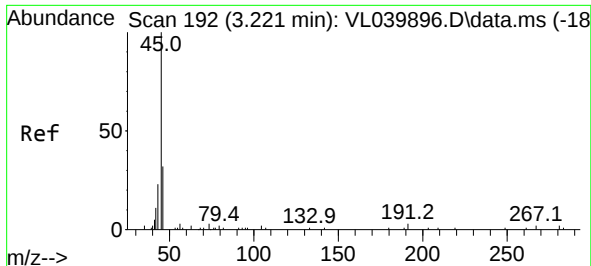
Tgt Ion: 41 Resp: 24151
Ion Ratio Lower Upper
41 100
42 80.0 55.8 83.6



#11
Trichlorofluoromethane
Concen: 0.056 ppbv
RT: 3.539 min Scan# 291
Delta R.T. 0.010 min
Lab File: VL039927.D
Acq: 22 Nov 2022 22:08

Tgt Ion: 101 Resp: 9659
Ion Ratio Lower Upper
101 100
103 42.8 52.6 78.8

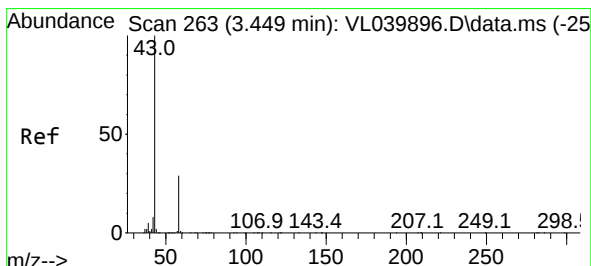
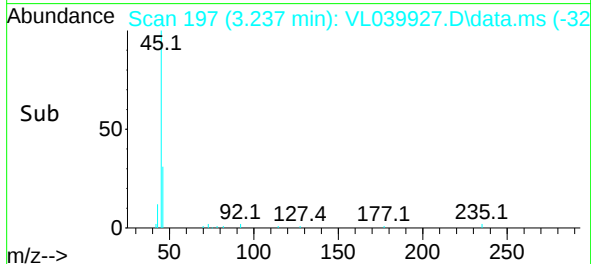
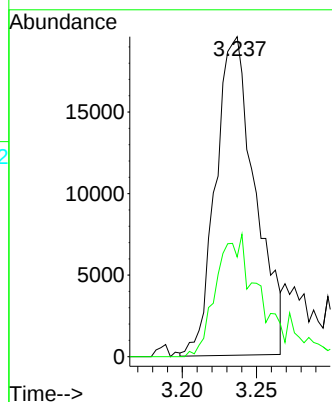
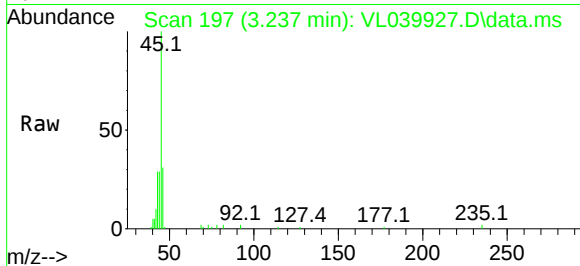




#13
Ethanol
Concen: 7.415 ppbv
RT: 3.237 min Scan# 19
Delta R.T. 0.029 min
Lab File: VL039927.D
Acq: 22 Nov 2022 22:08

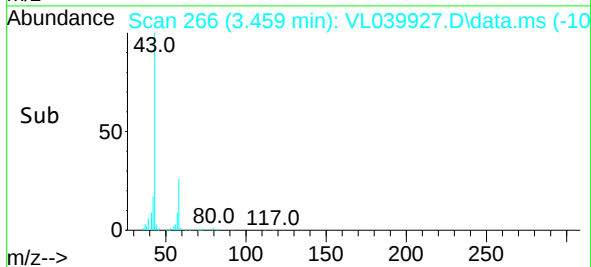
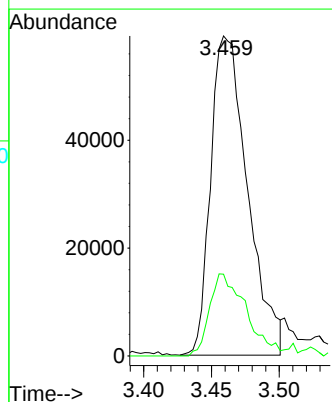
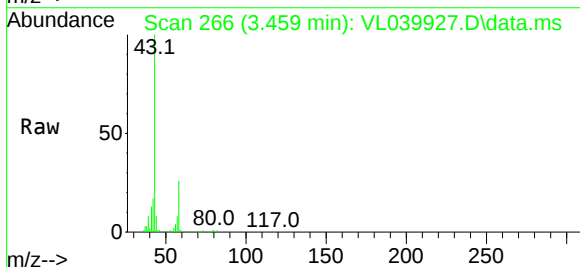
Instrument :
MSVOA_L
ClientSampleId :
IA2DL

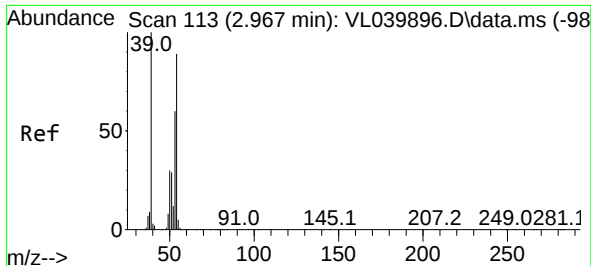
Tgt Ion: 45 Resp: 36215
Ion Ratio Lower Upper
45 100
46 49.3 14.6 58.2



#15
Acetone
Concen: 0.859 ppbv
RT: 3.459 min Scan# 266
Delta R.T. 0.026 min
Lab File: VL039927.D
Acq: 22 Nov 2022 22:08

Tgt Ion: 43 Resp: 112078
Ion Ratio Lower Upper
43 100
58 27.6 22.9 34.3

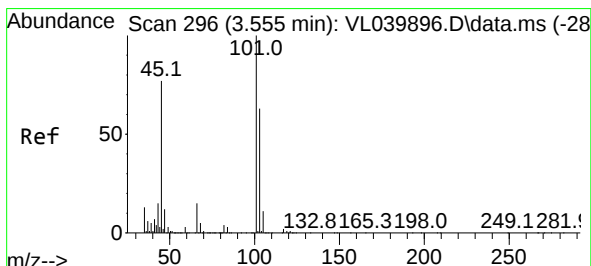
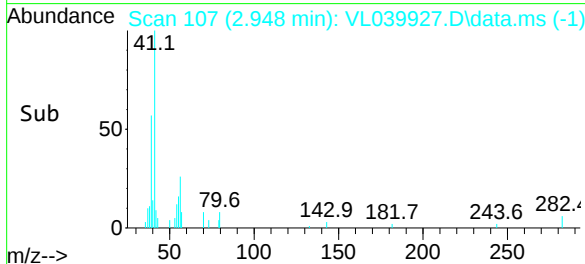
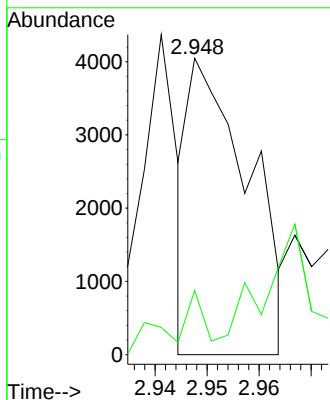
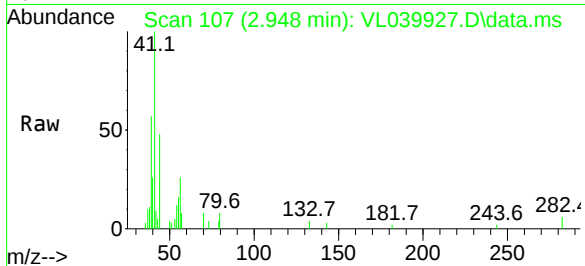




#16
1,3-Butadiene
Concen: 0.050 ppbv
RT: 2.948 min Scan# 107
Delta R.T. -0.006 min
Lab File: VL039927.D
Acq: 22 Nov 2022 22:08

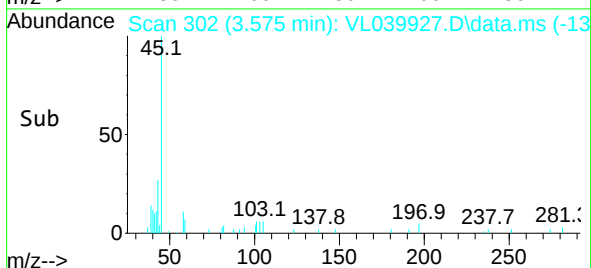
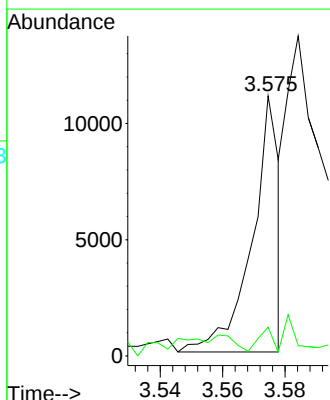
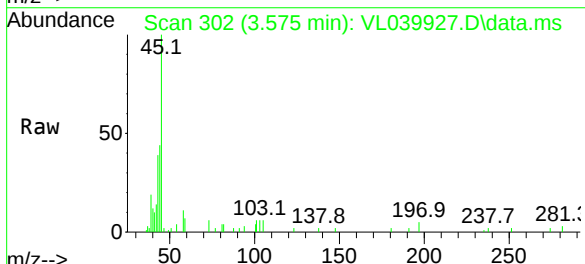
Instrument :
MSVOA_L
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IA2DL

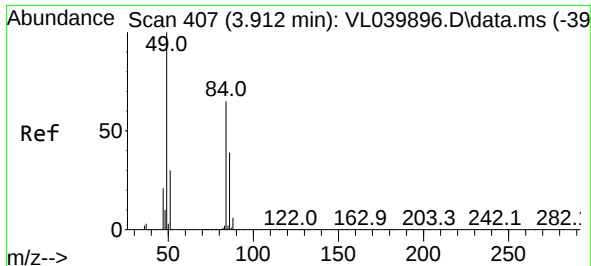
Tgt Ion: 39 Resp: 3263
Ion Ratio Lower Upper
39 100
54 70.8 66.6 99.8



#19
Isopropyl Alcohol
Concen: 0.094 ppbv
RT: 3.575 min Scan# 302
Delta R.T. 0.032 min
Lab File: VL039927.D
Acq: 22 Nov 2022 22:08

Tgt Ion: 45 Resp: 6671
Ion Ratio Lower Upper
45 100
58 0.0 38.7 58.1#



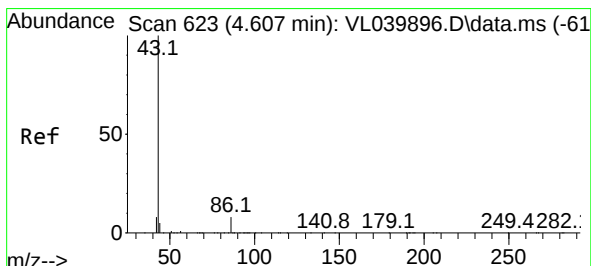
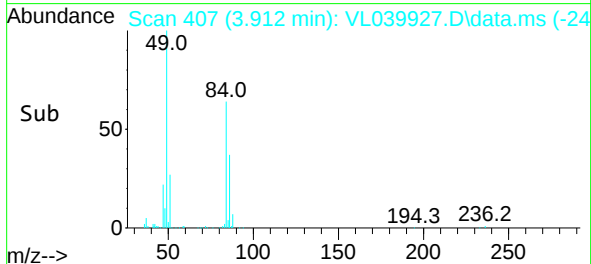
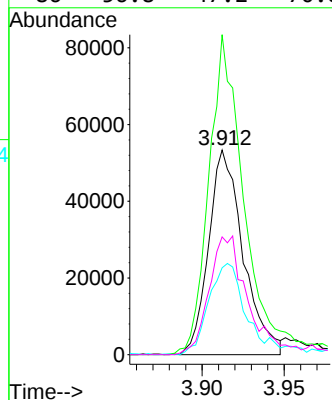
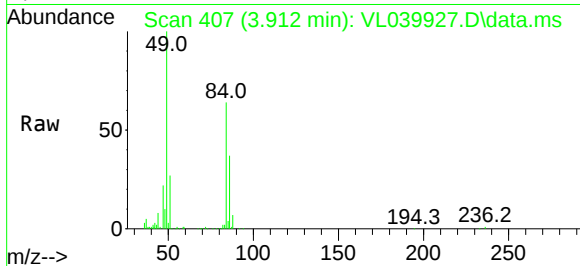


#20
Methylene Chloride
Concen: 1.237 ppbv
RT: 3.912 min Scan# 407
Delta R.T. 0.013 min
Lab File: VL039927.D
Acq: 22 Nov 2022 22:08

Instrument :
MSVOA_L
ClientSampleId :
IA2DL

Tgt Ion: 84 Resp: 78205

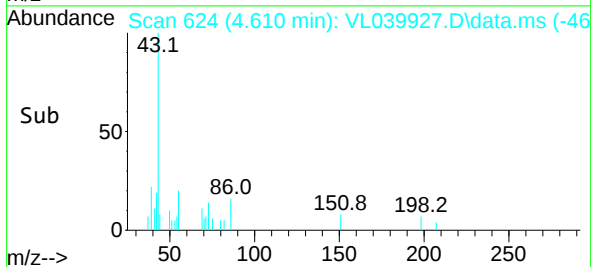
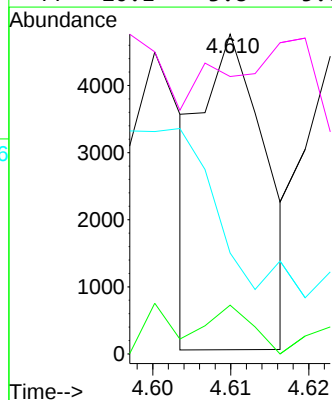
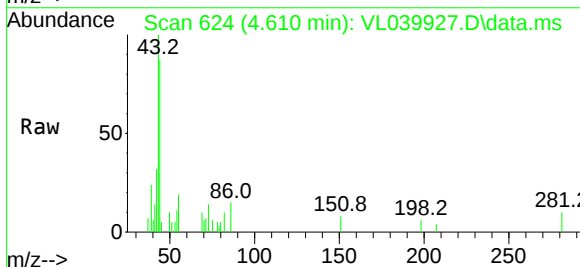
Ion	Ratio	Lower	Upper
84	100		
49	153.6	122.2	183.4
51	42.5	36.3	54.5
86	56.8	47.2	70.8

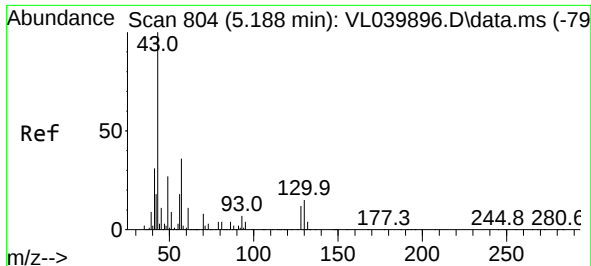


#23
Vinyl Acetate
Concen: 0.050 ppbv
RT: 4.610 min Scan# 624
Delta R.T. 0.019 min
Lab File: VL039927.D
Acq: 22 Nov 2022 22:08

Tgt Ion: 43 Resp: 2691

Ion	Ratio	Lower	Upper
43	100		
86	29.1	5.0	7.4#
42	4.8	7.6	11.4#
44	20.1	3.8	5.6#

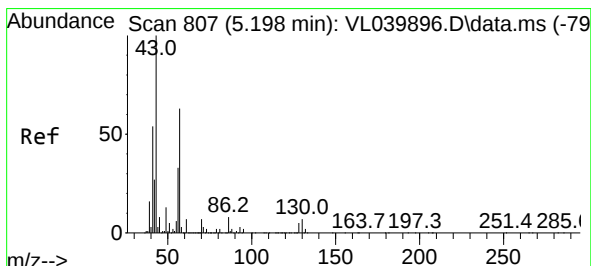
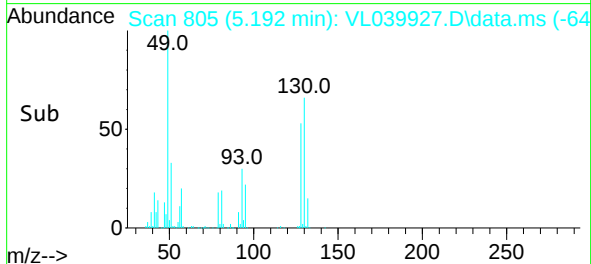
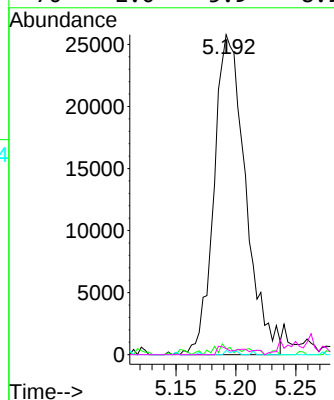
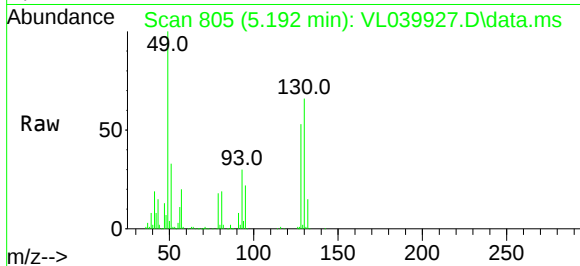




#25
Ethyl Acetate
Concen: 0.196 ppbv
RT: 5.192 min Scan# 805
Delta R.T. 0.023 min
Lab File: VL039927.D
Acq: 22 Nov 2022 22:08

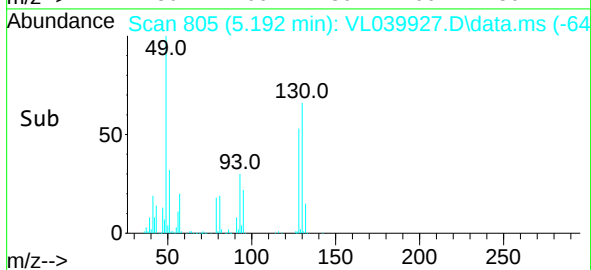
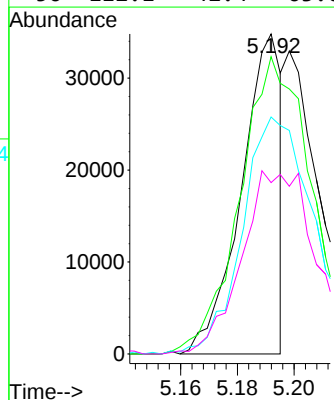
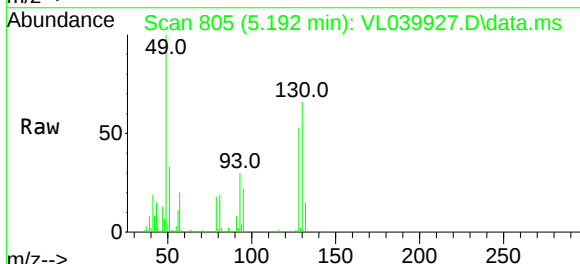
Instrument :
MSVOA_L
ClientSampleId :
IA2DL

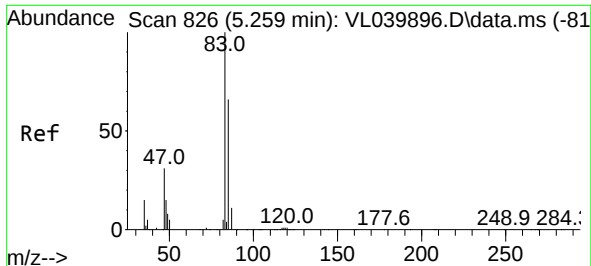
Tgt Ion: 43	Resp: 46949
Ion Ratio	Lower Upper
43 100	
45 3.1	8.4 12.6#
61 0.5	8.5 12.7#
70 2.0	5.9 8.9#



#26
Hexane
Concen: 0.327 ppbv
RT: 5.192 min Scan# 805
Delta R.T. 0.010 min
Lab File: VL039927.D
Acq: 22 Nov 2022 22:08

Tgt Ion: 57	Resp: 34284
Ion Ratio	Lower Upper
57 100	
41 180.5	72.3 108.5#
43 146.1	188.7 283.1#
56 112.1	42.4 63.6#





#29

Chloroform

Concen: 1.132 ppbv

RT: 5.253 min Scan# 81

Delta R.T. 0.013 min

Lab File: VL039927.D

Acq: 22 Nov 2022 22:08

Instrument :

MSVOA_L

ClientSampleId :

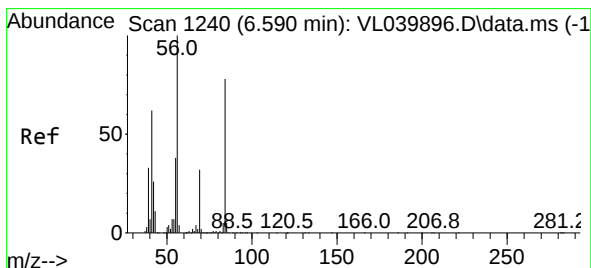
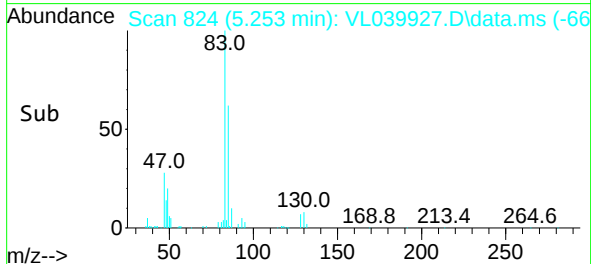
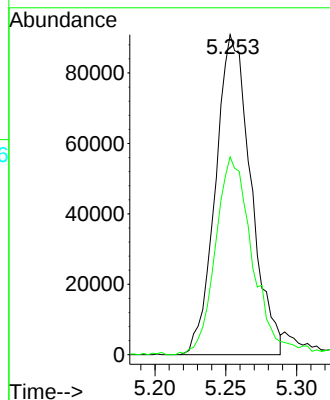
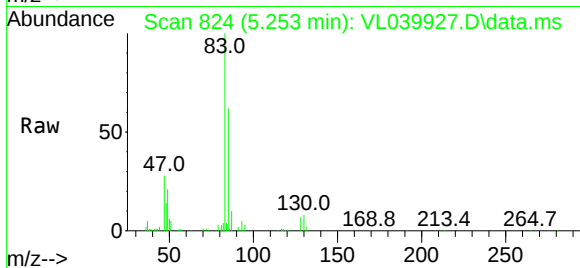
IA2DL

Tgt Ion: 83 Resp: 157562

Ion Ratio Lower Upper

83 100

85 61.1 52.4 78.6



#30

Cyclohexane

Concen: 0.030 ppbv

RT: 6.591 min Scan# 1240

Delta R.T. 0.023 min

Lab File: VL039927.D

Acq: 22 Nov 2022 22:08

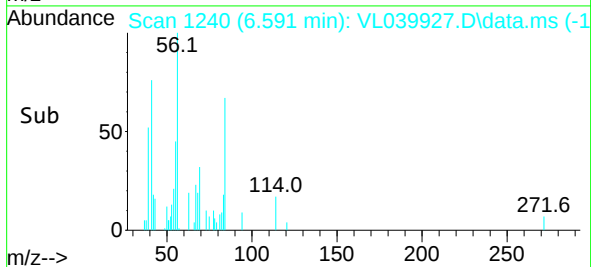
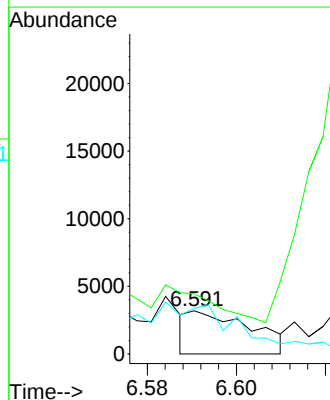
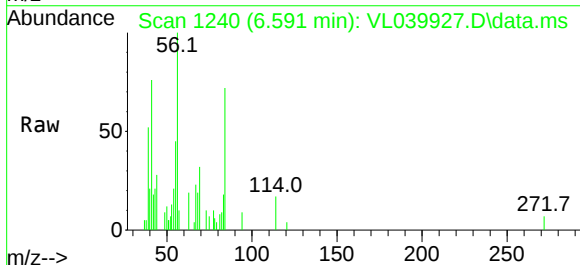
Tgt Ion: 84 Resp: 3108

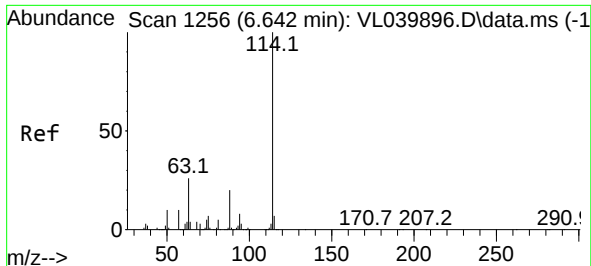
Ion Ratio Lower Upper

84 100

56 0.0 112.5 168.7#

41 0.0 67.8 101.8#

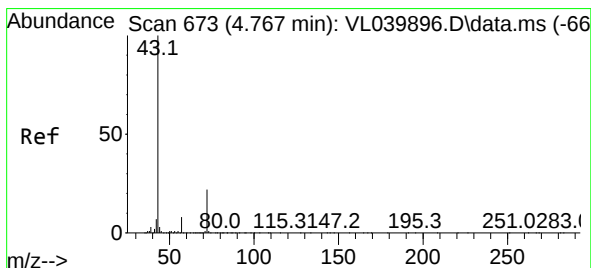
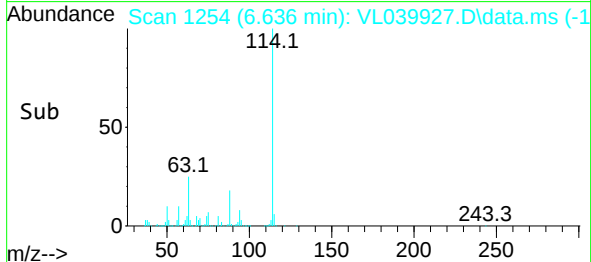
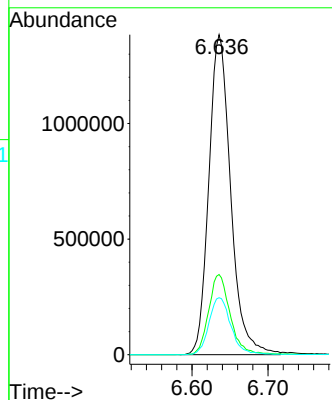
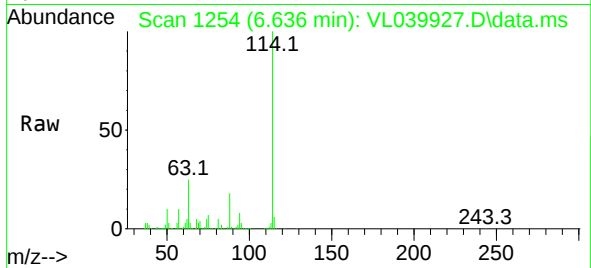




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.636 min Scan# 114
Delta R.T. 0.016 min
Lab File: VL039927.D
Acq: 22 Nov 2022 22:08

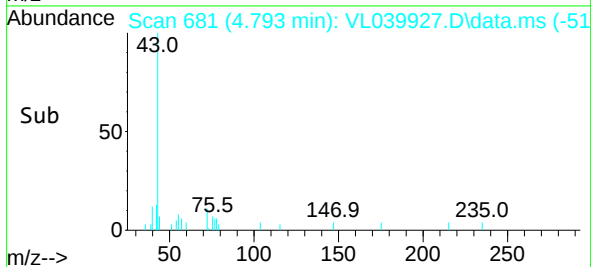
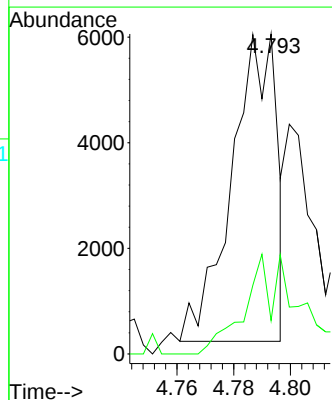
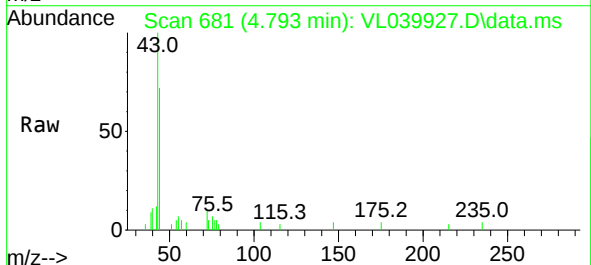
Instrument :
MSVOA_L
ClientSampleId :
IA2DL

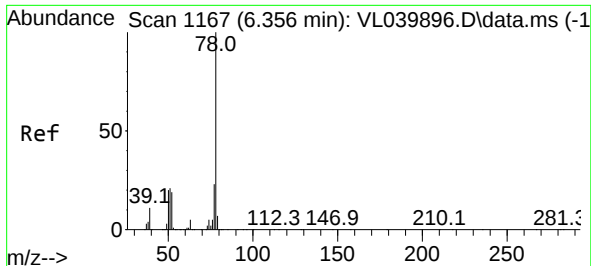
Tgt Ion:114 Resp: 2759608
Ion Ratio Lower Upper
114 100
63 25.0 21.4 32.0
88 18.1 15.3 22.9



#34
2-Butanone
Concen: 0.049 ppbv
RT: 4.793 min Scan# 681
Delta R.T. 0.042 min
Lab File: VL039927.D
Acq: 22 Nov 2022 22:08

Tgt Ion: 43 Resp: 6407
Ion Ratio Lower Upper
43 100
72 43.2 17.4 26.2#

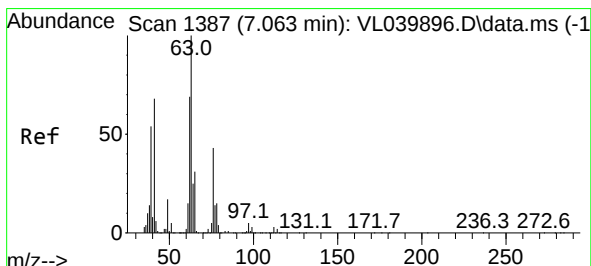
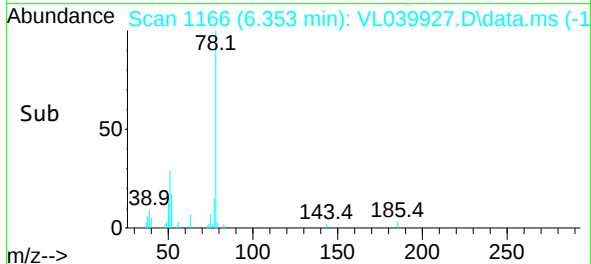
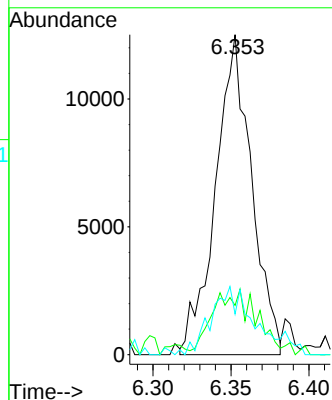
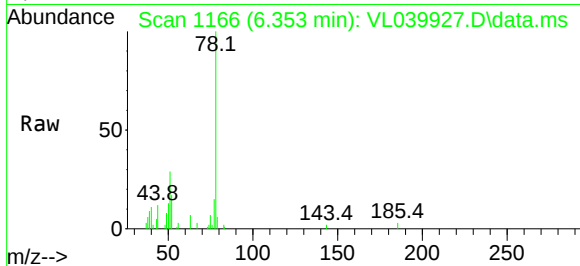




#36
Benzene
Concen: 0.086 ppbv
RT: 6.353 min Scan# 1167
Delta R.T. 0.016 min
Lab File: VL039927.D
Acq: 22 Nov 2022 22:08

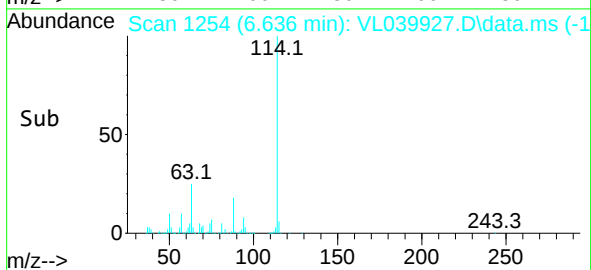
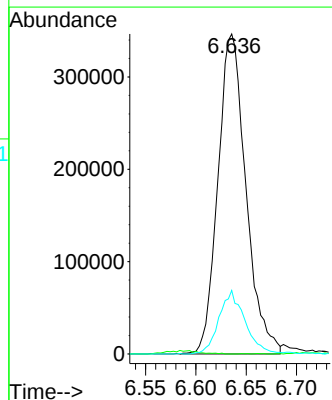
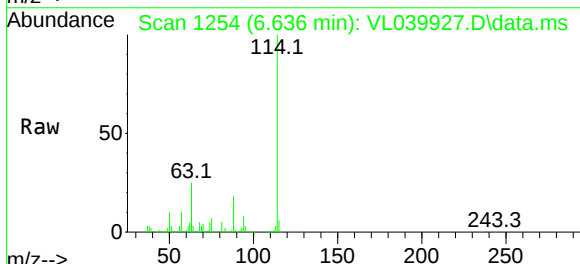
Instrument :
MSVOA_L
ClientSampleId :
IA2DL

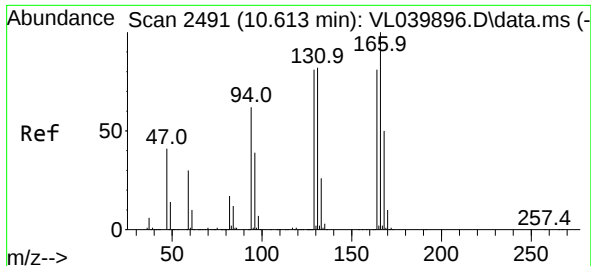
Tgt Ion: 78 Resp: 20144
Ion Ratio Lower Upper
78 100
77 13.6 18.2 27.2#
50 11.3 15.8 23.8#



#39
1,2-Dichloropropane
Concen: 7.341 ppbv
RT: 6.636 min Scan# 1254
Delta R.T. -0.405 min
Lab File: VL039927.D
Acq: 22 Nov 2022 22:08

Tgt Ion: 63 Resp: 670896
Ion Ratio Lower Upper
63 100
41 0.0 54.7 82.1#
62 19.7 55.0 82.6#

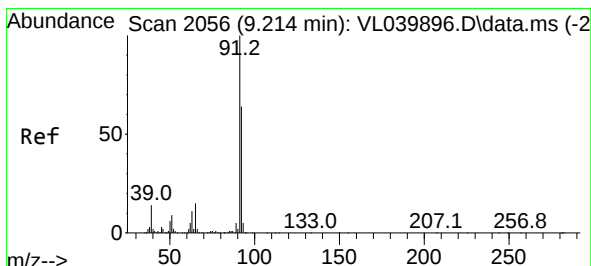
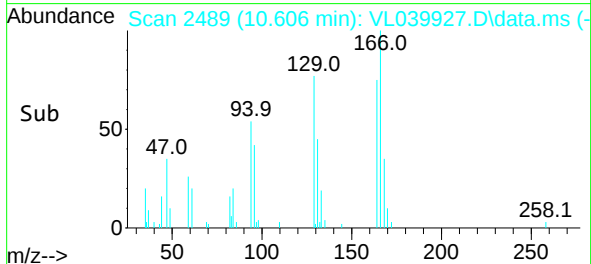
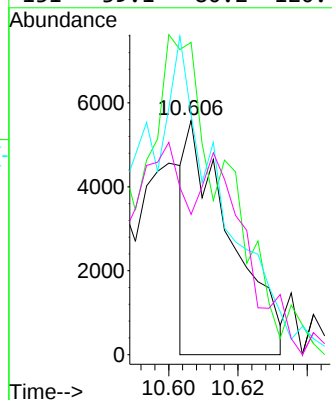
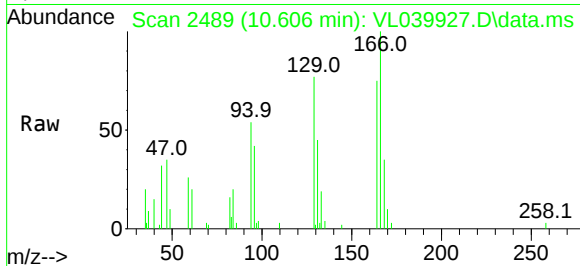




#52
Tetrachloroethene
Concen: 0.056 ppbv
RT: 10.606 min Scan# 2491
Delta R.T. 0.019 min
Lab File: VL039927.D
Acq: 22 Nov 2022 22:08

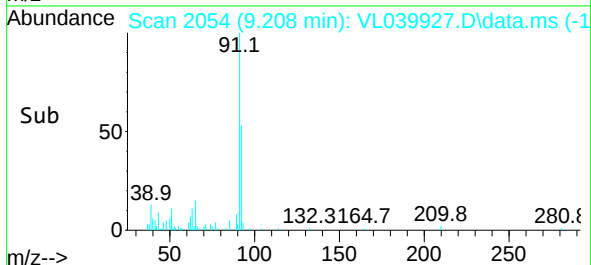
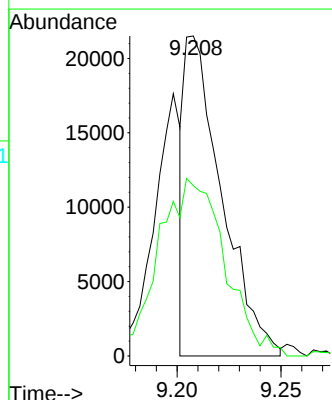
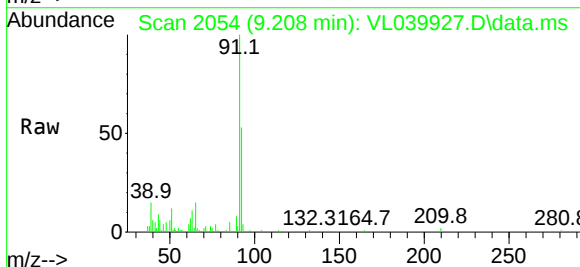
Instrument :
MSVOA_L
ClientSampleId :
IA2DL

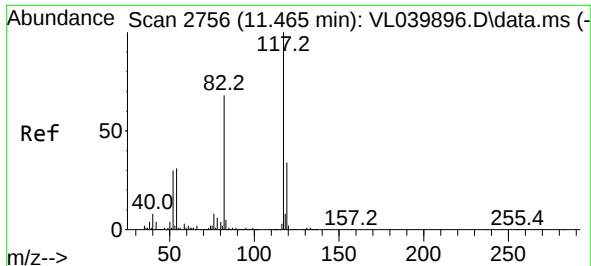
Tgt Ion:164	Resp:	4931
Ion Ratio	Lower	Upper
164	100	
166	144.4	98.3 147.5
129	93.0	79.7 119.5
131	39.1	80.2 120.4#



#53
Toluene
Concen: 0.101 ppbv
RT: 9.208 min Scan# 2054
Delta R.T. 0.016 min
Lab File: VL039927.D
Acq: 22 Nov 2022 22:08

Tgt Ion: 91	Resp:	26885
Ion Ratio	Lower	Upper
91	100	
92	99.6	49.8 74.6#

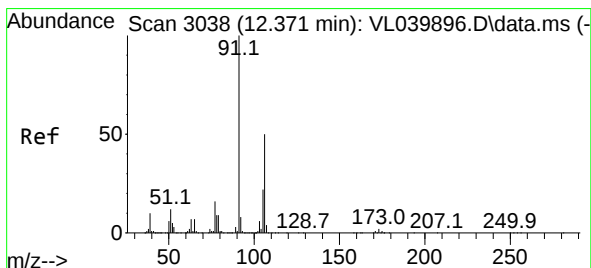
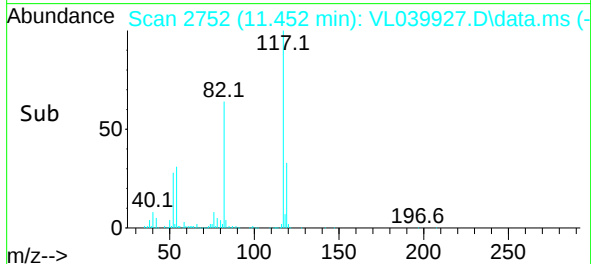
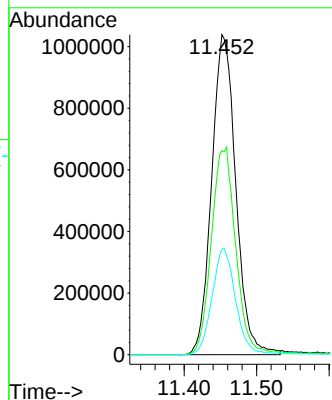
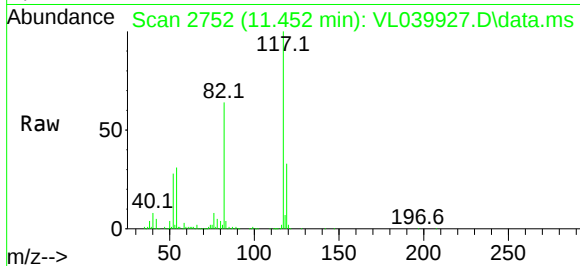




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL039927.D
Acq: 22 Nov 2022 22:08

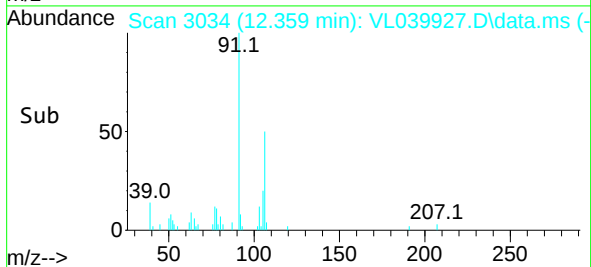
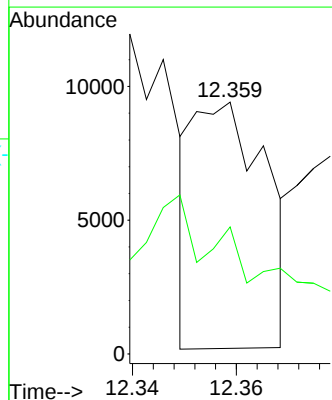
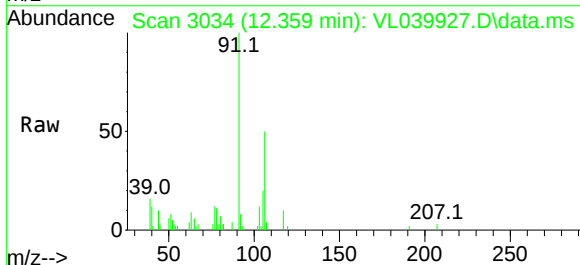
Instrument :
MSVOA_L
ClientSampleId :
IA2DL

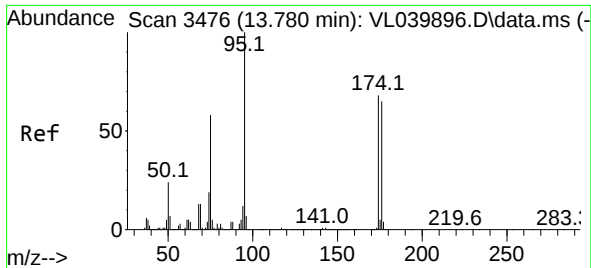
Tgt Ion:117 Resp: 2401160
Ion Ratio Lower Upper
117 100
82 66.5 52.3 78.5
119 32.8 25.7 38.5



#59
m/p-Xylene
Concen: 0.033 ppbv
RT: 12.359 min Scan# 3034
Delta R.T. 0.013 min
Lab File: VL039927.D
Acq: 22 Nov 2022 22:08

Tgt Ion: 91 Resp: 8988
Ion Ratio Lower Upper
91 100
106 201.9 37.0 55.6#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.398 ppbv
 RT: 13.764 min Scan# 3471
 Delta R.T. 0.010 min
 Lab File: VL039927.D
 Acq: 22 Nov 2022 22:08

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DL

Tgt Ion: 95 Resp: 1907101

Ion	Ratio	Lower	Upper
95	100		
174	61.0	53.7	80.5
175	4.4	4.0	6.0

