

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110922\
 Data File : VL039860.D
 Acq On : 9 Nov 2022 22:49
 Operator : SY/AP
 Sample : N5555-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-18F

Quant Time: Nov 10 03:52:44 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110222AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Nov 03 09:27:12 2022
 Response via : Initial Calibration

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

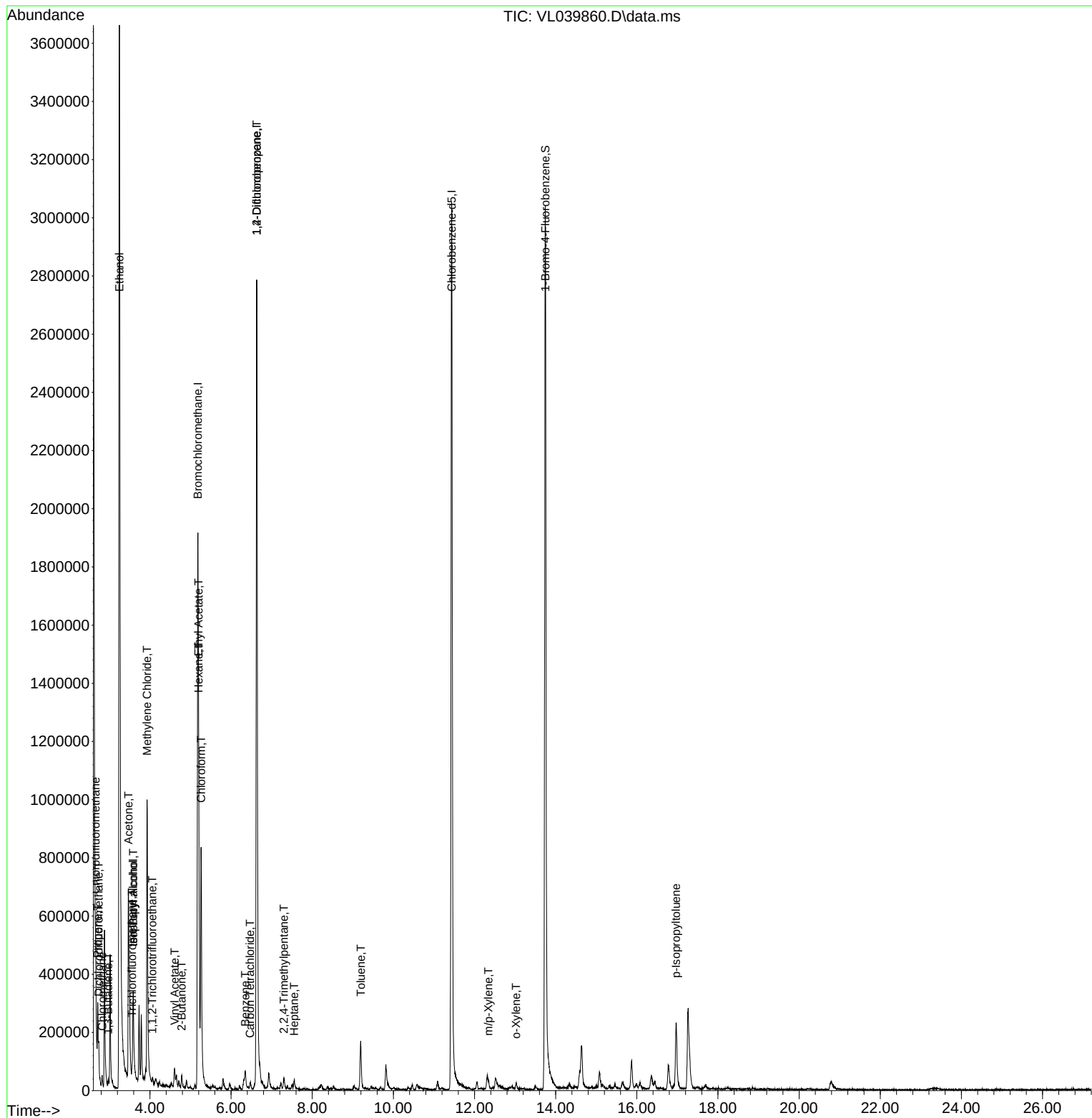
Internal Standards								
1)	Bromochloromethane		5.179	49	943557	10.000	ppbv	0.00
33)	1,4-Difluorobenzene		6.632	114	2150641	10.000	ppbv	-0.01
55)	Chlorobenzene-d5		11.436	117	1955332	10.000	ppbv	-0.02
System Monitoring Compounds								
68)	1-Bromo-4-Fluorobenzene		13.744	95	1608894	10.993	ppbv	-0.02
Spiked Amount		10.000	Range	65 - 135	Recovery	= 109.900%		
Target Compounds								
								Qvalue
2)	Dichlorodifluoromethane		2.738	85	71903	0.451	ppbv	99
3)	Chlorodifluoromethane		2.661	51	167821	1.492	ppbv #	71
4)	Chloromethane		2.822	50	29238	0.417	ppbv	98
9)	Propene		2.713	41	57177	0.976	ppbv #	74
10)	Heptane		7.555	43	6101	0.043	ppbv #	6
11)	Trichlorofluoromethane		3.562	101	28207	0.217	ppbv	97
12)	1,1,2-Trichlorotrifluo...		4.060	101	3582	0.038	ppbv #	1
13)	Ethanol		3.246	45	4900904	1183.174	ppbv	93
15)	Acetone		3.472	43	771858	6.721	ppbv	96
16)	1,3-Butadiene		2.973	39	4402	0.082	ppbv	98
17)	tert-Butyl alcohol		3.587	59	12828	0.117	ppbv	94
19)	Isopropyl Alcohol		3.587	45	314052	5.525	ppbv #	34
20)	Methylene Chloride		3.931	84	362142	8.814	ppbv	96
23)	Vinyl Acetate		4.610	43	45899	1.003	ppbv #	69
25)	Ethyl Acetate		5.198	43	239785	1.014	ppbv #	83
26)	Hexane		5.201	57	289852	2.748	ppbv #	45
29)	Chloroform		5.262	83	548339	3.697	ppbv	94
34)	2-Butanone		4.783	43	43818	0.494	ppbv	92
35)	Carbon Tetrachloride		6.468	117	5841	0.047	ppbv	86
36)	Benzene		6.349	78	22028	0.121	ppbv #	90
39)	1,2-Dichloropropane		6.632	63	580562	8.214	ppbv #	27
44)	2,2,4-Trimethylpentane		7.304	57	21310	0.070	ppbv #	37
53)	Toluene		9.195	91	118009	0.567	ppbv	100
59)	m/p-Xylene		12.339	91	6695	0.030	ppbv #	30
60)	o-Xylene		13.024	91	8253	0.039	ppbv #	29
69)	p-Isopropyltoluene		16.966	119	178400	0.590	ppbv #	92

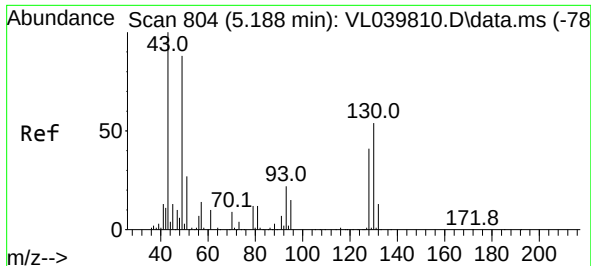
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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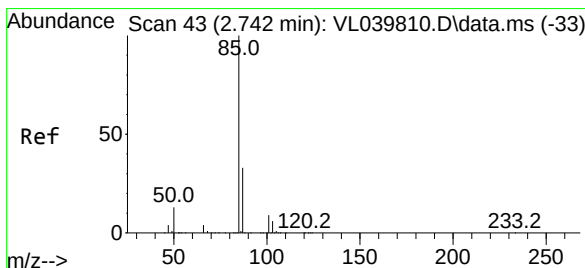
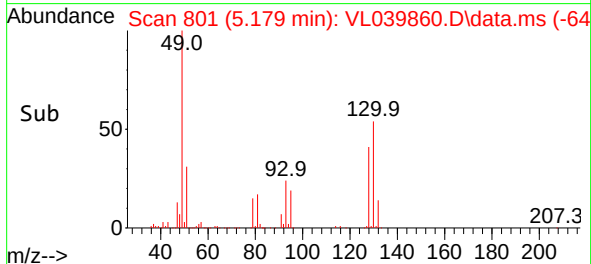
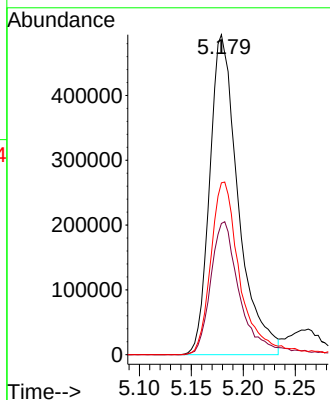
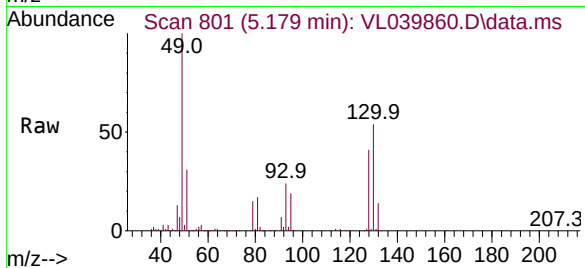




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.179 min Scan# 80
 Delta R.T. -0.009 min
 Lab File: VL039860.D
 Acq: 9 Nov 2022 22:49

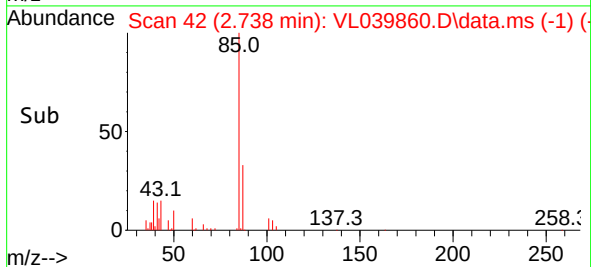
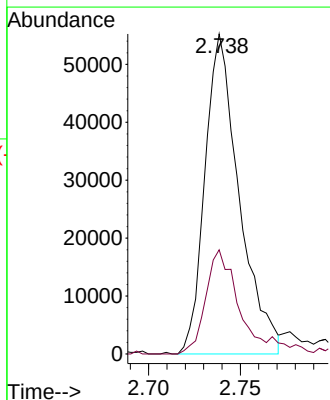
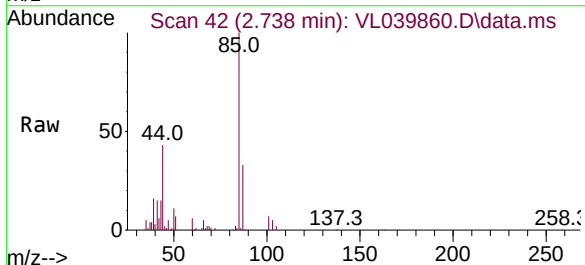
Instrument :
 MSVOA_L
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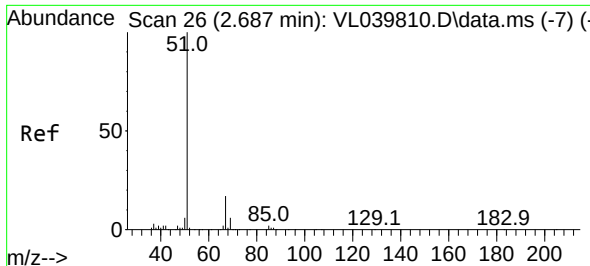
Tgt Ion: 49 Resp: 943557
 Ion Ratio Lower Upper
 49 100
 128 44.2 24.6 73.6
 130 56.8 31.1 93.2



#2
 Dichlorodifluoromethane
 Concen: 0.451 ppbv
 RT: 2.738 min Scan# 42
 Delta R.T. -0.003 min
 Lab File: VL039860.D
 Acq: 9 Nov 2022 22:49

Tgt Ion: 85 Resp: 71903
 Ion Ratio Lower Upper
 85 100
 87 32.6 26.4 39.6

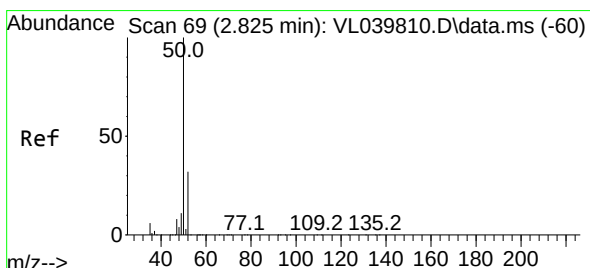
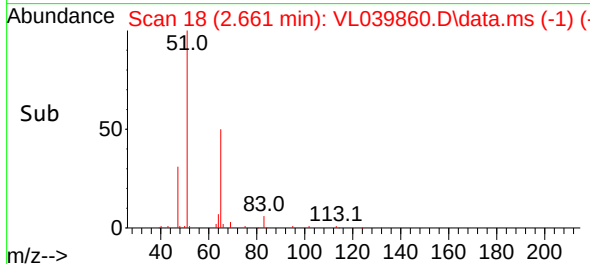
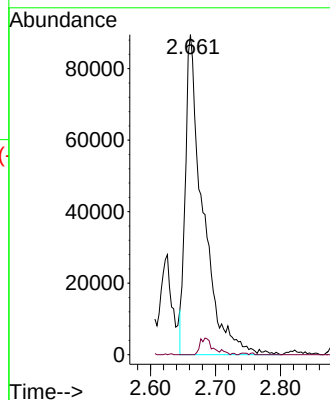
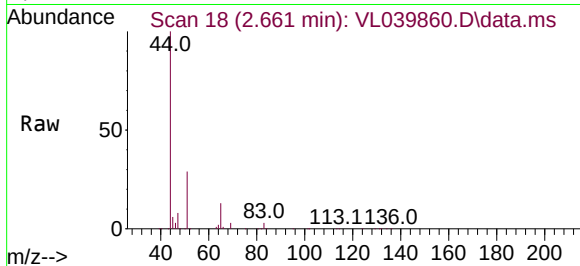




#3
Chlorodifluoromethane
Concen: 1.492 ppbv
RT: 2.661 min Scan# 11
Delta R.T. -0.026 min
Lab File: VL039860.D
Acq: 9 Nov 2022 22:49

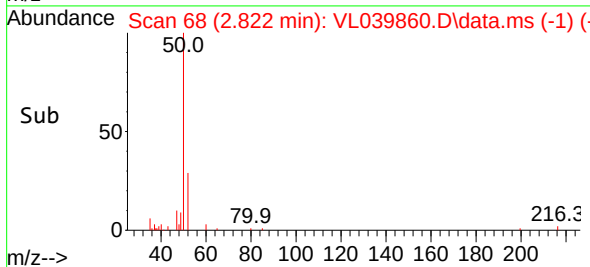
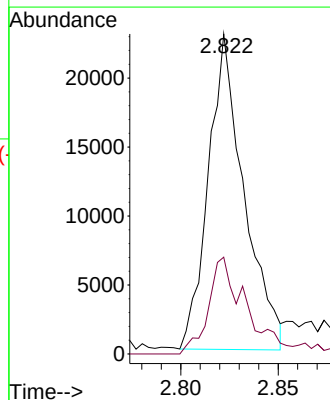
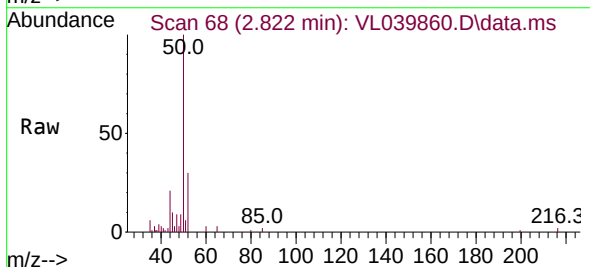
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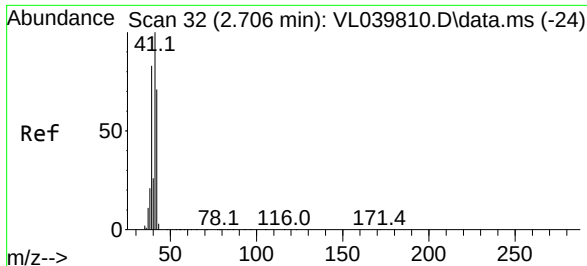
Tgt Ion: 51 Resp: 167821
Ion Ratio Lower Upper
51 100
67 4.0 13.2 19.8#



#4
Chloromethane
Concen: 0.417 ppbv
RT: 2.822 min Scan# 68
Delta R.T. -0.003 min
Lab File: VL039860.D
Acq: 9 Nov 2022 22:49

Tgt Ion: 50 Resp: 29238
Ion Ratio Lower Upper
50 100
52 30.7 25.5 38.3

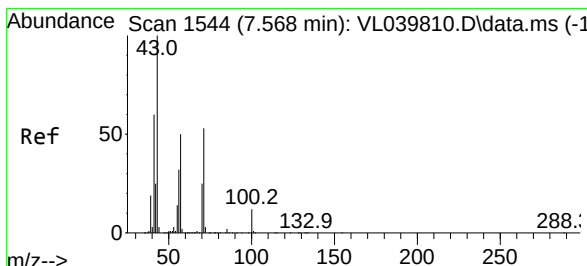
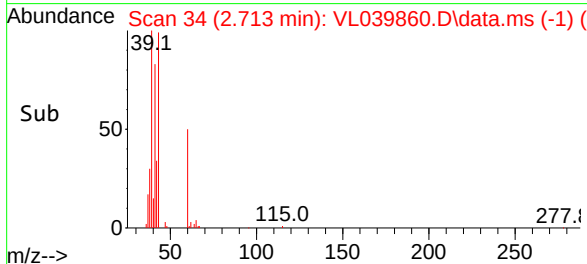
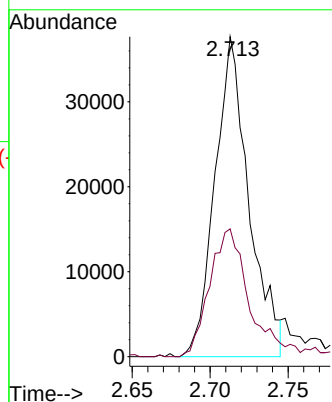
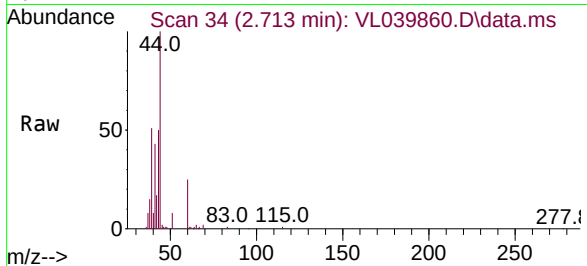




#9
 Propene
 Concen: 0.976 ppbv
 RT: 2.713 min Scan# 34
 Delta R.T. 0.007 min
 Lab File: VL039860.D
 Acq: 9 Nov 2022 22:49

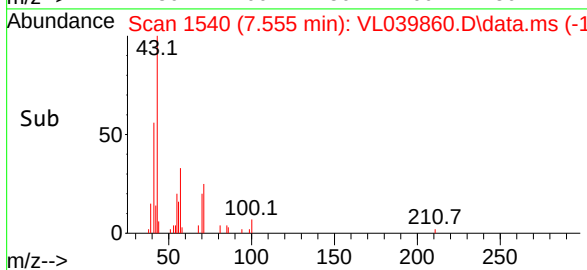
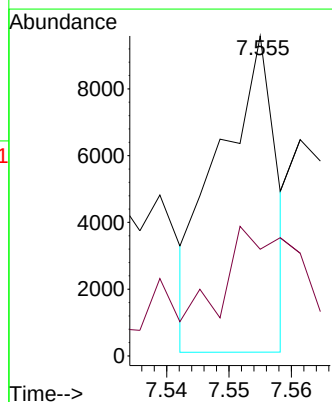
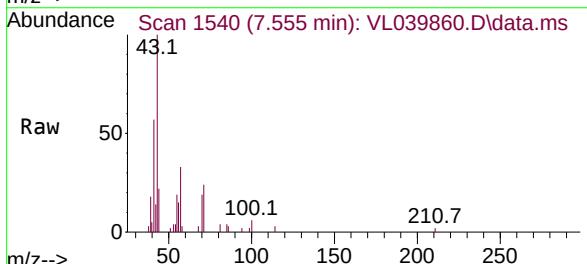
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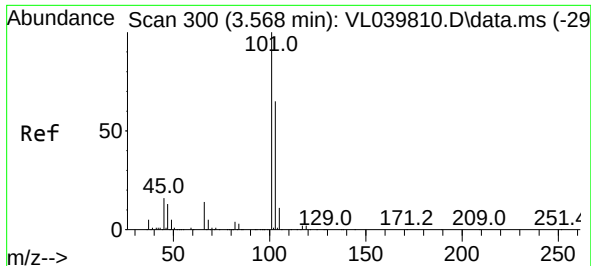
Tgt Ion: 41 Resp: 57177
 Ion Ratio Lower Upper
 41 100
 42 48.8 56.3 84.5#



#10
 Heptane
 Concen: 0.043 ppbv
 RT: 7.555 min Scan# 1540
 Delta R.T. -0.013 min
 Lab File: VL039860.D
 Acq: 9 Nov 2022 22:49

Tgt Ion: 43 Resp: 6101
 Ion Ratio Lower Upper
 43 100
 57 115.8 40.5 60.7#

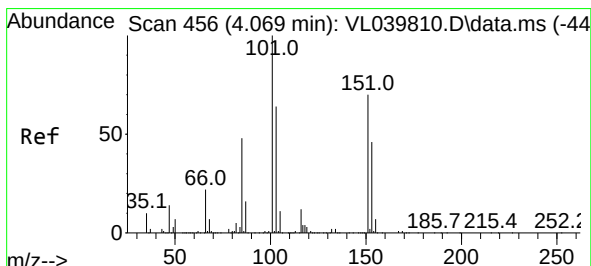
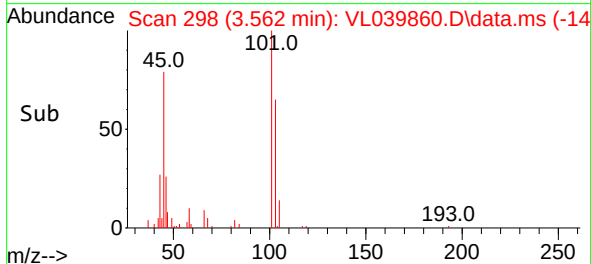
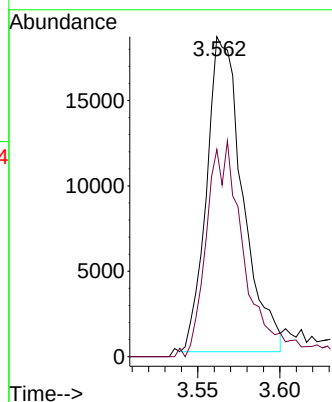
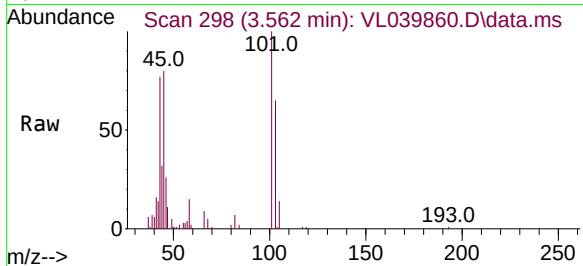




#11
 Trichlorofluoromethane
 Concen: 0.217 ppbv
 RT: 3.562 min Scan# 298
 Delta R.T. -0.006 min
 Lab File: VL039860.D
 Acq: 9 Nov 2022 22:49

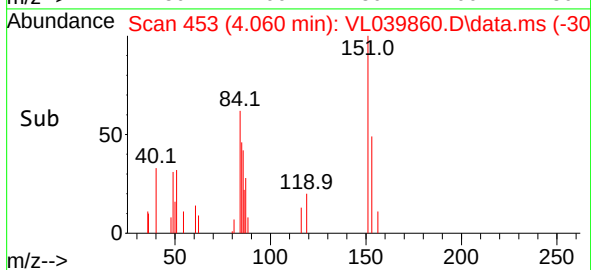
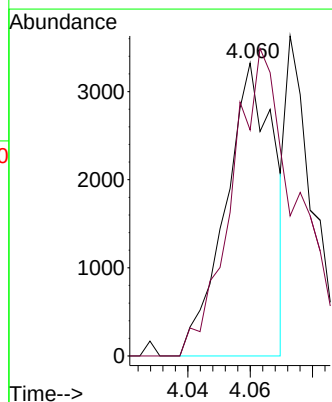
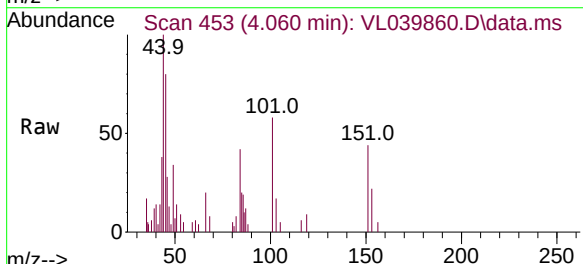
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-18F

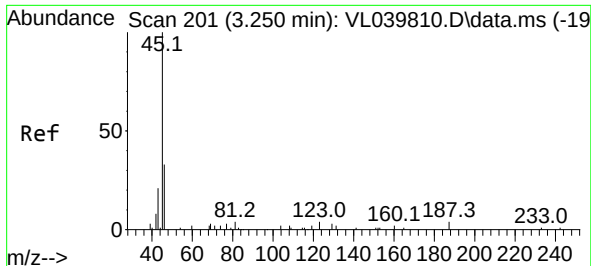
Tgt Ion:101 Resp: 28207
 Ion Ratio Lower Upper
 101 100
 103 63.0 52.2 78.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.038 ppbv
 RT: 4.060 min Scan# 453
 Delta R.T. -0.010 min
 Lab File: VL039860.D
 Acq: 9 Nov 2022 22:49

Tgt Ion:101 Resp: 3582
 Ion Ratio Lower Upper
 101 100
 151 156.8 57.2 85.8#

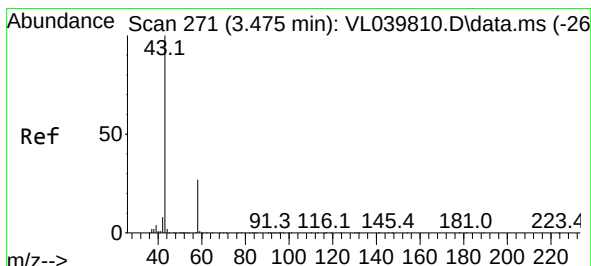
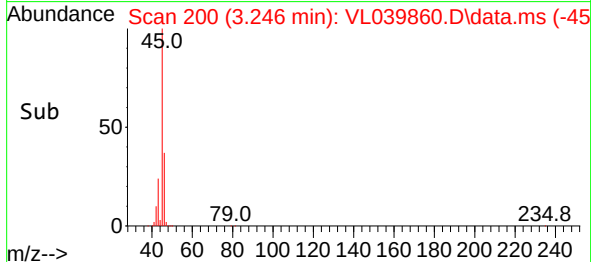
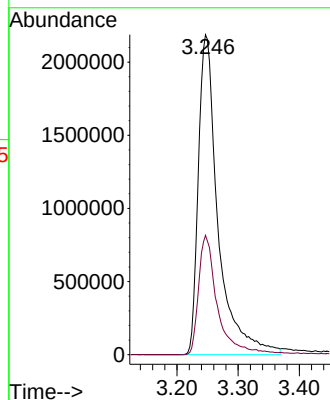
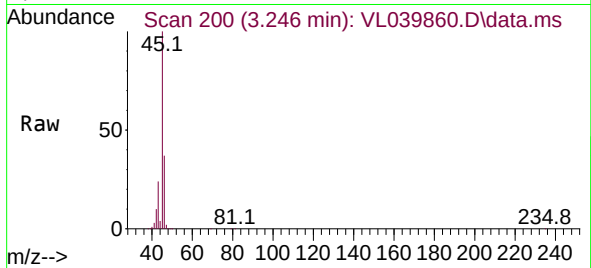




#13
Ethanol
Concen: 1183.174 ppbv
RT: 3.246 min Scan# 20
Delta R.T. -0.003 min
Lab File: VL039860.D
Acq: 9 Nov 2022 22:49

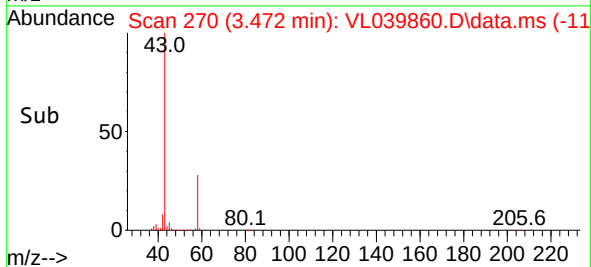
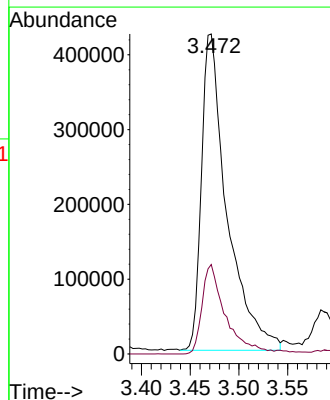
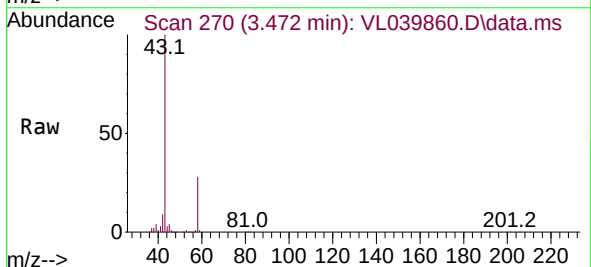
Instrument :
MSVOA_L
ClientSampleId :
IA-18F

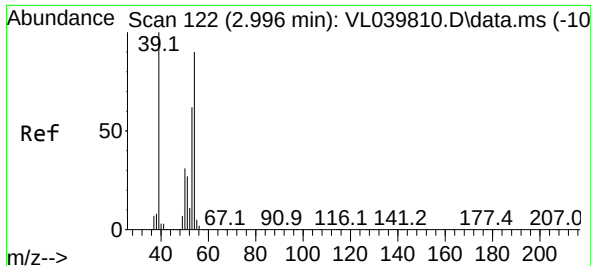
Tgt Ion: 45 Resp: 4900904
Ion Ratio Lower Upper
45 100
46 36.5 16.5 65.9



#15
Acetone
Concen: 6.721 ppbv
RT: 3.472 min Scan# 270
Delta R.T. -0.003 min
Lab File: VL039860.D
Acq: 9 Nov 2022 22:49

Tgt Ion: 43 Resp: 771858
Ion Ratio Lower Upper
43 100
58 26.7 23.2 34.8





#16

1,3-Butadiene

Concen: 0.082 ppbv

RT: 2.973 min Scan# 115

Delta R.T. -0.022 min

Lab File: VL039860.D

Acq: 9 Nov 2022 22:49

Instrument :

MSVOA_L

ClientSampleId :

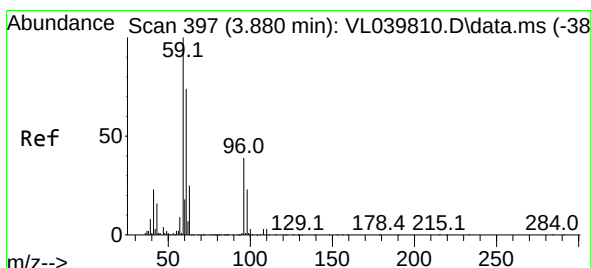
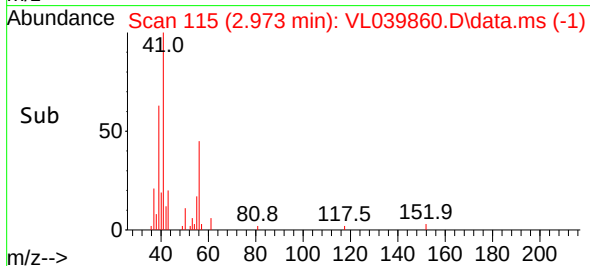
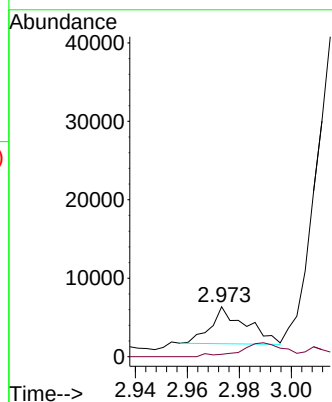
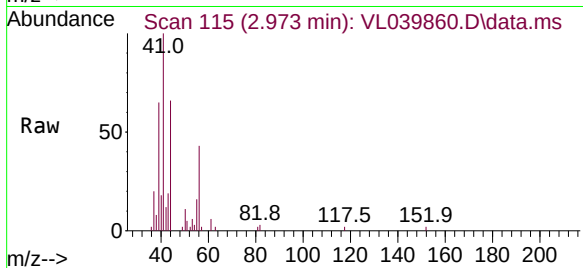
IA-18F

Tgt Ion: 39 Resp: 4402

Ion Ratio Lower Upper

39 100

54 86.9 71.0 106.4



#17

tert-Butyl alcohol

Concen: 0.117 ppbv

RT: 3.587 min Scan# 306

Delta R.T. -0.292 min

Lab File: VL039860.D

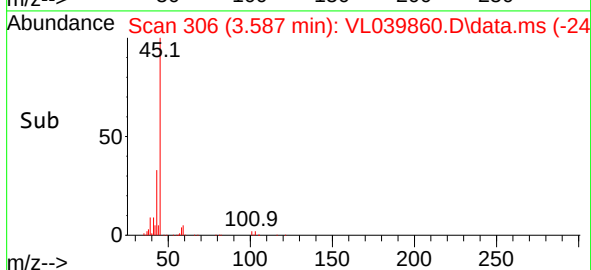
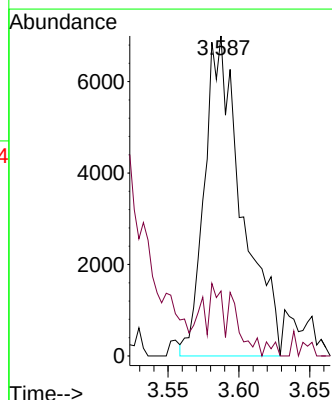
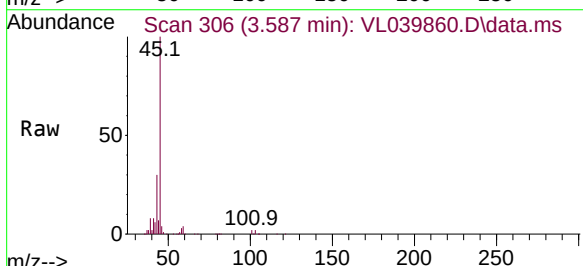
Acq: 9 Nov 2022 22:49

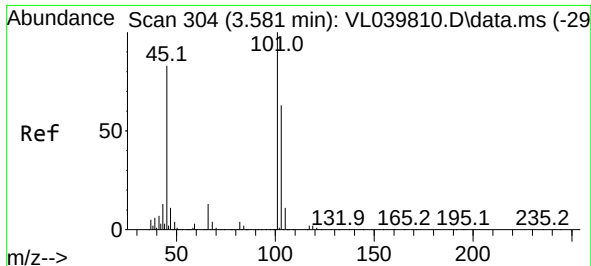
Tgt Ion: 59 Resp: 12828

Ion Ratio Lower Upper

59 100

57 13.5 9.0 13.6

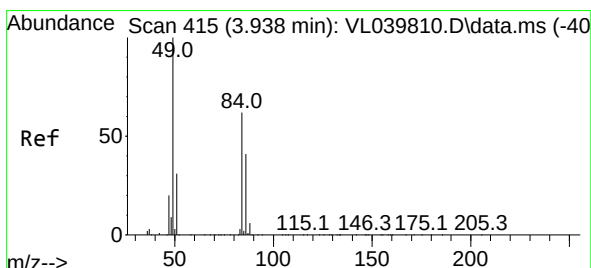
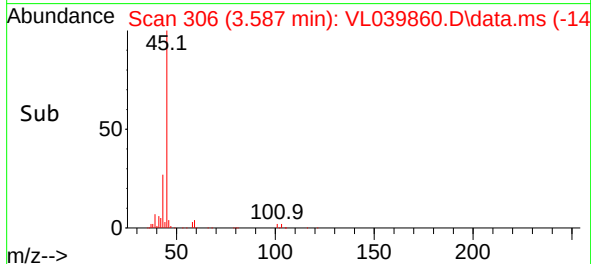
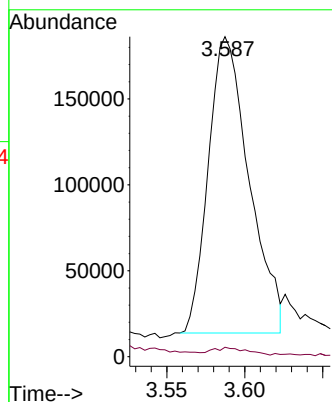
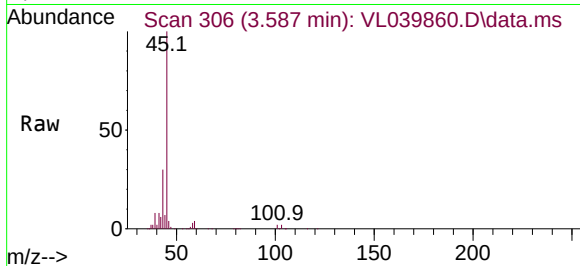




#19
Isopropyl Alcohol
Concen: 5.525 ppbv
RT: 3.587 min Scan# 304
Delta R.T. 0.007 min
Lab File: VL039860.D
Acq: 9 Nov 2022 22:49

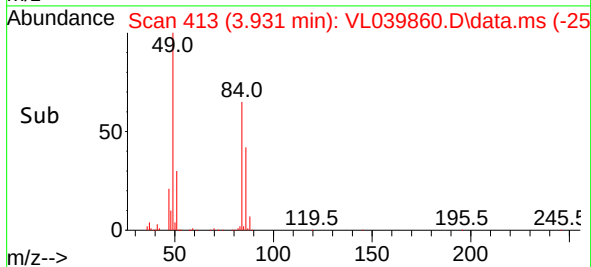
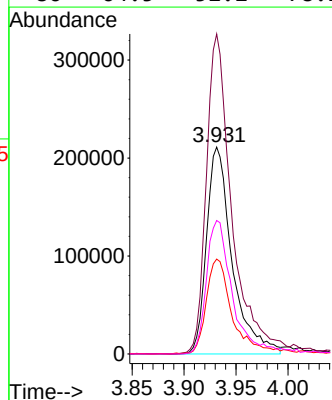
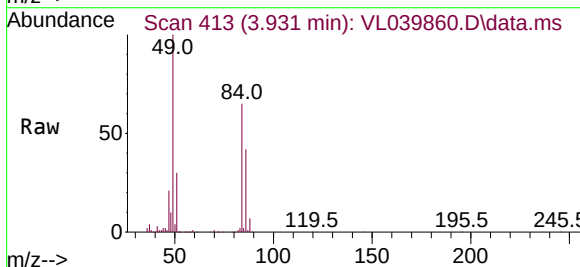
Instrument :
MSVOA_1
ClientSampleId :
IA-18F

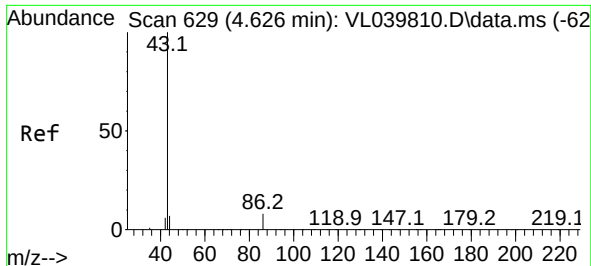
Tgt Ion: 45 Resp: 314052
Ion Ratio Lower Upper
45 100
58 3.6 38.3 57.5#



#20
Methylene Chloride
Concen: 8.814 ppbv
RT: 3.931 min Scan# 413
Delta R.T. -0.006 min
Lab File: VL039860.D
Acq: 9 Nov 2022 22:49

Tgt Ion: 84 Resp: 362142
Ion Ratio Lower Upper
84 100
49 154.2 128.6 192.8
51 45.8 40.2 60.4
86 64.5 52.2 78.2



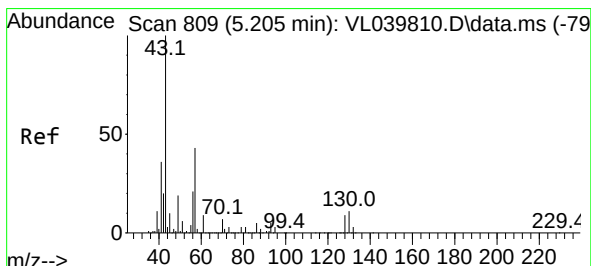
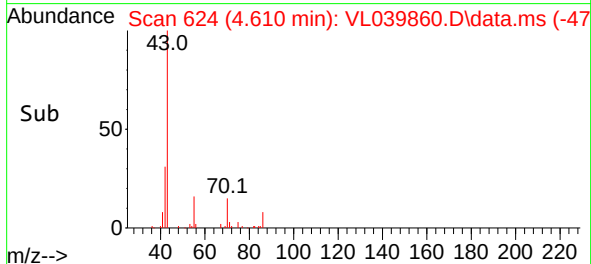
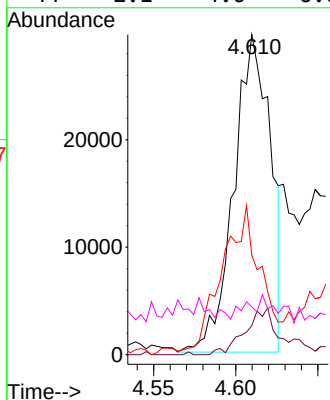
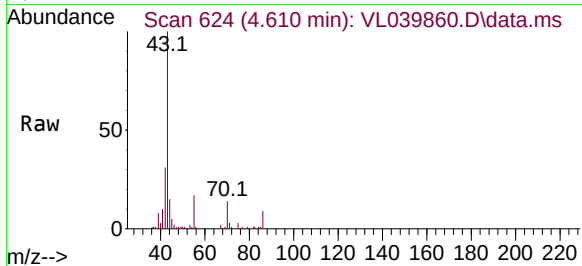


#23
 Vinyl Acetate
 Concen: 1.003 ppbv
 RT: 4.610 min Scan# 61
 Delta R.T. -0.016 min
 Lab File: VL039860.D
 Acq: 9 Nov 2022 22:49

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-18F

Tgt Ion: 43 Resp: 45899

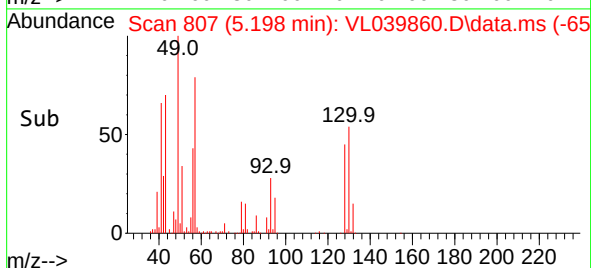
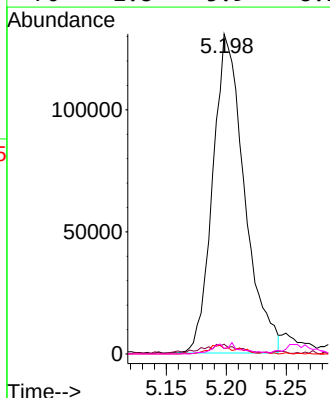
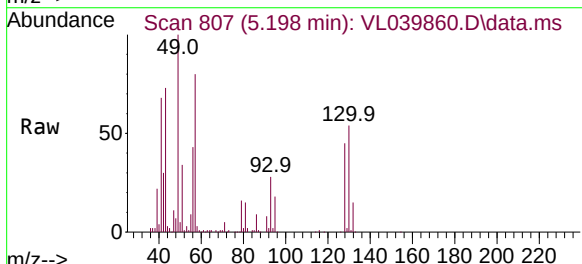
Ion	Ratio	Lower	Upper
43	100		
86	9.1	5.0	7.4#
42	30.1	6.8	10.2#
44	2.1	4.0	6.0#

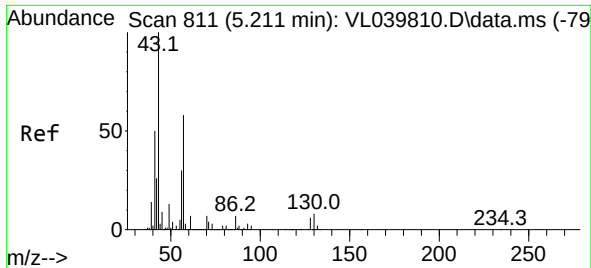


#25
 Ethyl Acetate
 Concen: 1.014 ppbv
 RT: 5.198 min Scan# 807
 Delta R.T. -0.006 min
 Lab File: VL039860.D
 Acq: 9 Nov 2022 22:49

Tgt Ion: 43 Resp: 239785

Ion	Ratio	Lower	Upper
43	100		
45	3.7	8.2	12.2#
61	2.7	8.1	12.1#
70	2.8	5.9	8.9#

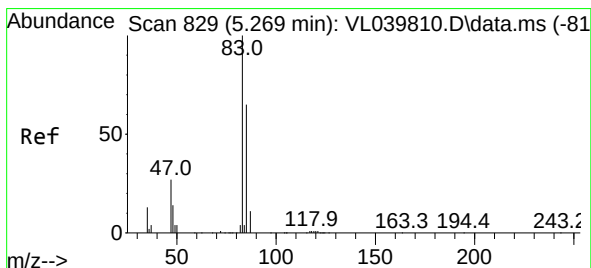
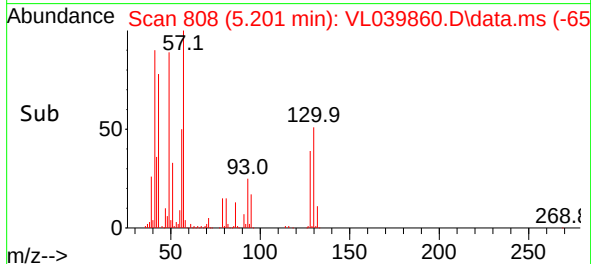
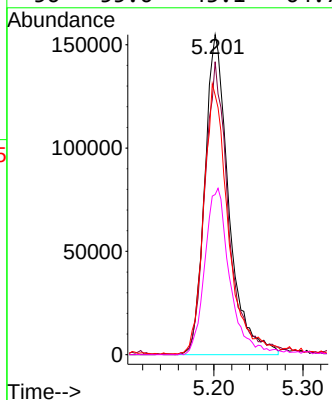
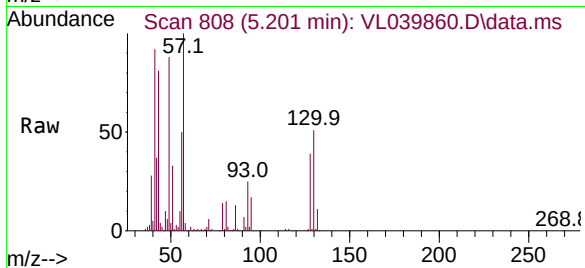




#26
Hexane
Concen: 2.748 ppbv
RT: 5.201 min Scan# 80
Delta R.T. -0.010 min
Lab File: VL039860.D
Acq: 9 Nov 2022 22:49

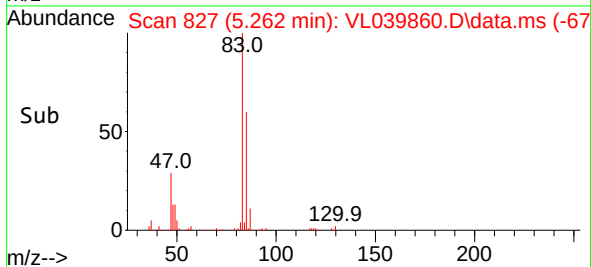
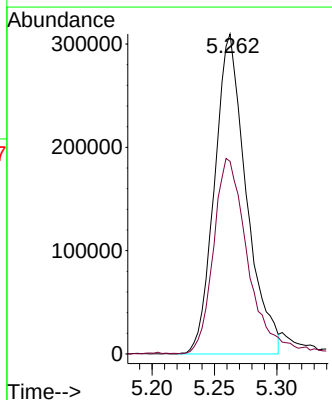
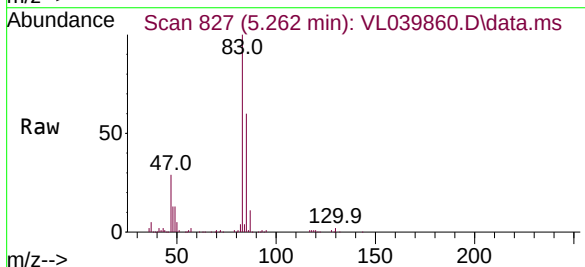
Instrument :
MSVOA_L
ClientSampleId :
IA-18F

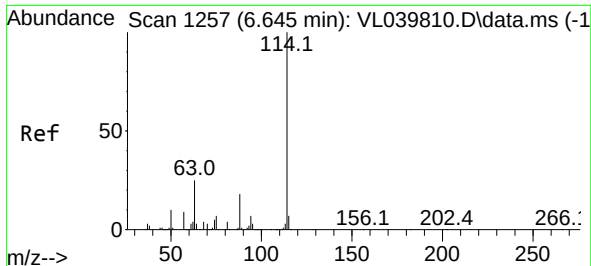
Tgt Ion: 57	Resp: 289852
Ion Ratio	Lower Upper
57 100	
41 92.5	73.7 110.5
43 88.5	189.8 284.8#
56 55.6	43.1 64.7



#29
Chloroform
Concen: 3.697 ppbv
RT: 5.262 min Scan# 827
Delta R.T. -0.006 min
Lab File: VL039860.D
Acq: 9 Nov 2022 22:49

Tgt Ion: 83	Resp: 548339
Ion Ratio	Lower Upper
83 100	
85 60.0	51.6 77.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.632 min Scan# 1

Delta R.T. -0.013 min

Lab File: VL039860.D

Acq: 9 Nov 2022 22:49

Instrument :

MSVOA_L

ClientSampleId :

IA-18F

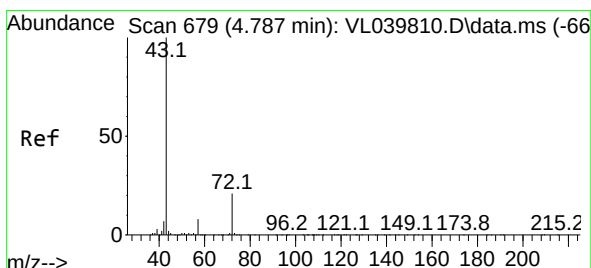
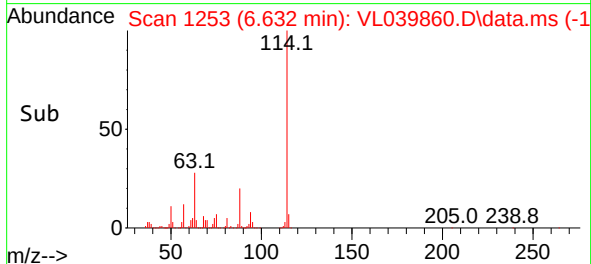
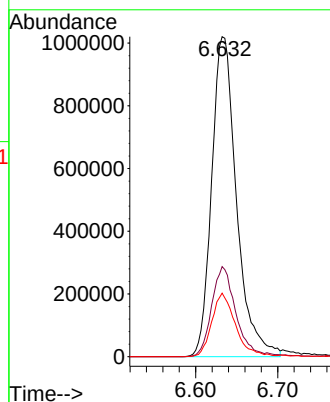
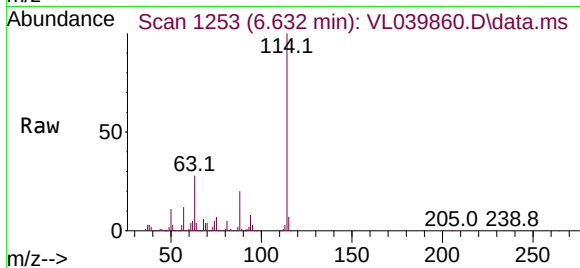
Tgt Ion:114 Resp: 2150641

Ion Ratio Lower Upper

114 100

63 28.0 19.8 29.6

88 19.3 14.4 21.6



#34

2-Butanone

Concen: 0.494 ppbv

RT: 4.783 min Scan# 678

Delta R.T. -0.003 min

Lab File: VL039860.D

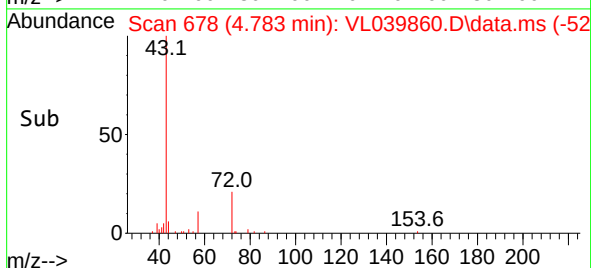
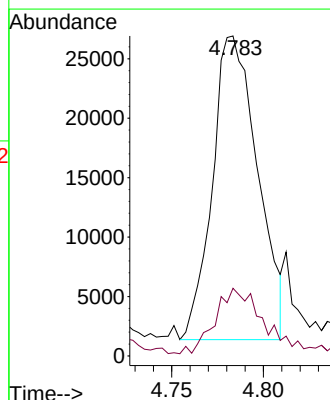
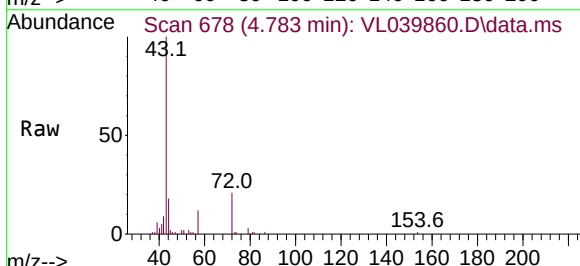
Acq: 9 Nov 2022 22:49

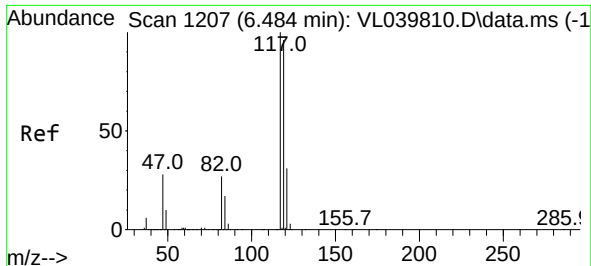
Tgt Ion: 43 Resp: 43818

Ion Ratio Lower Upper

43 100

72 25.7 17.5 26.3

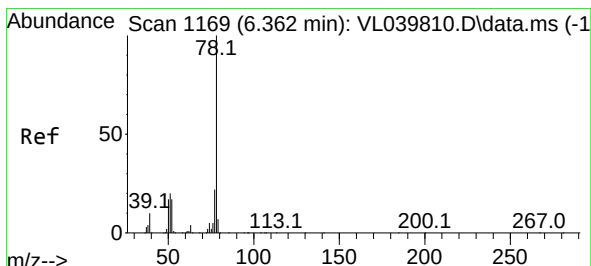
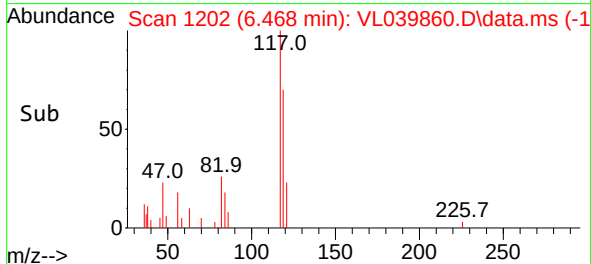
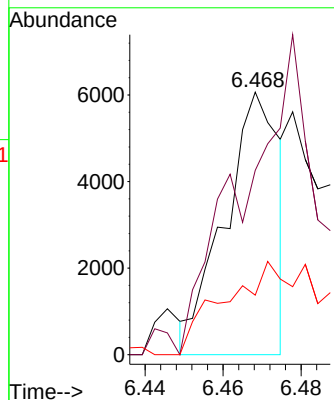
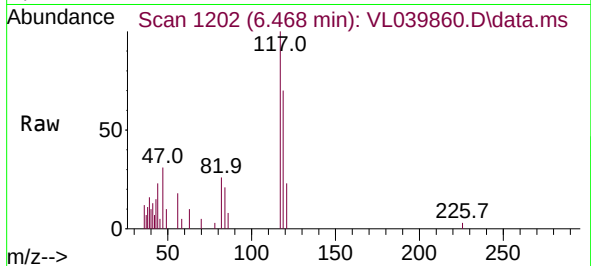




#35
Carbon Tetrachloride
Concen: 0.047 ppbv
RT: 6.468 min Scan# 1165
Delta R.T. -0.016 min
Lab File: VL039860.D
Acq: 9 Nov 2022 22:49

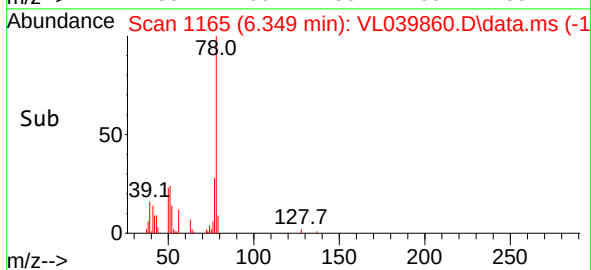
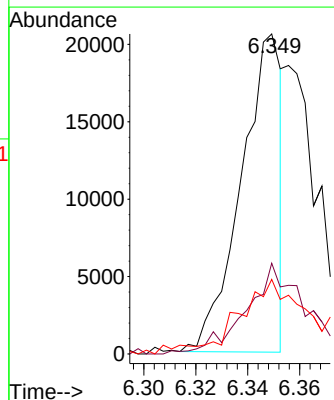
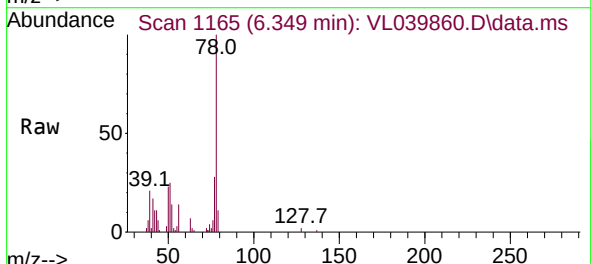
Instrument :
MSVOA_L
ClientSampleId :
IA-18F

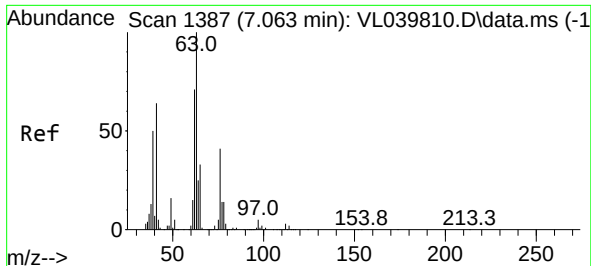
Tgt Ion:117 Resp: 5841
Ion Ratio Lower Upper
117 100
119 80.4 76.5 114.7
121 25.9 25.2 37.8



#36
Benzene
Concen: 0.121 ppbv
RT: 6.349 min Scan# 1165
Delta R.T. -0.013 min
Lab File: VL039860.D
Acq: 9 Nov 2022 22:49

Tgt Ion: 78 Resp: 22028
Ion Ratio Lower Upper
78 100
77 27.7 17.4 26.2#
50 20.7 13.9 20.9





#39

1,2-Dichloropropane

Concen: 8.214 ppbv

RT: 6.632 min Scan# 1

Delta R.T. -0.431 min

Lab File: VL039860.D

Acq: 9 Nov 2022 22:49

Instrument :

MSVOA_L

ClientSampleId :

IA-18F

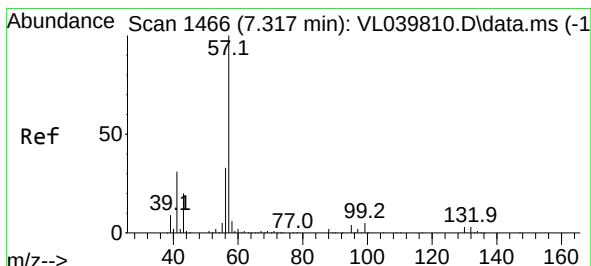
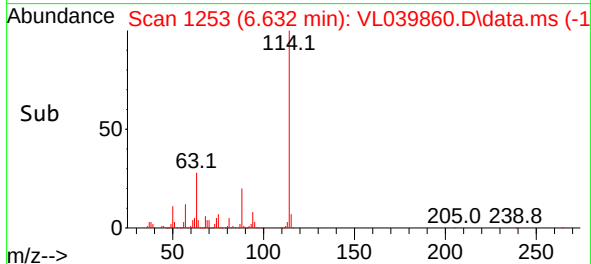
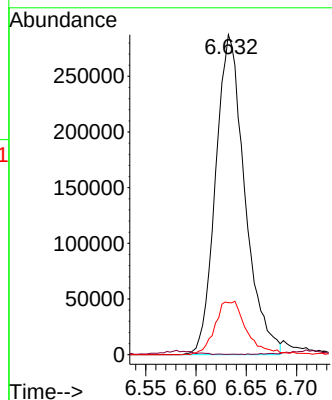
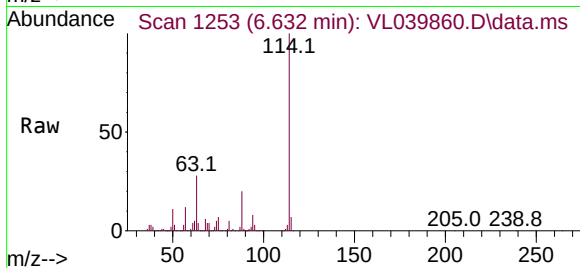
Tgt Ion: 63 Resp: 580562

Ion Ratio Lower Upper

63 100

41 0.0 51.0 76.4#

62 16.3 56.6 85.0#



#44

2,2,4-Trimethylpentane

Concen: 0.070 ppbv

RT: 7.304 min Scan# 1462

Delta R.T. -0.013 min

Lab File: VL039860.D

Acq: 9 Nov 2022 22:49

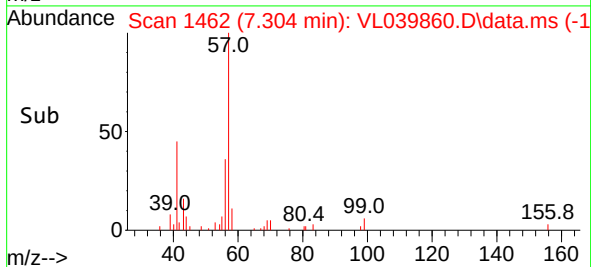
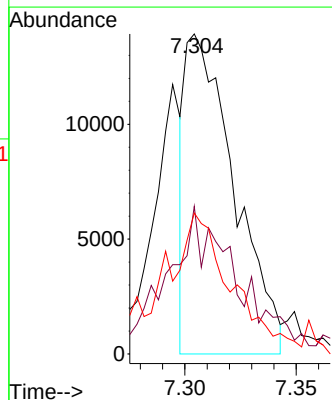
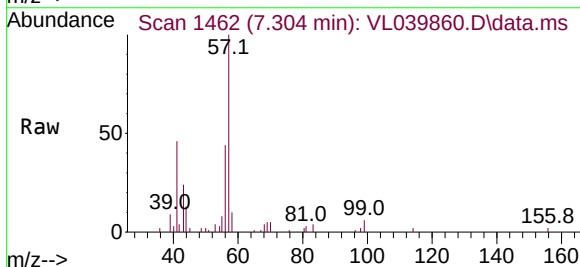
Tgt Ion: 57 Resp: 21310

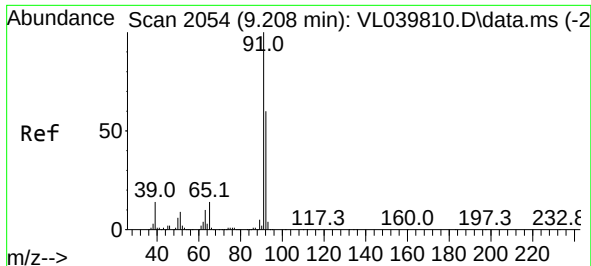
Ion Ratio Lower Upper

57 100

41 63.6 24.6 36.8#

56 67.8 25.4 38.0#

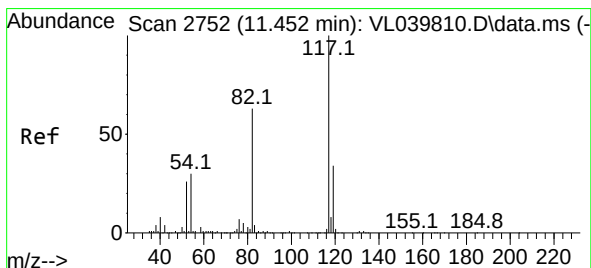
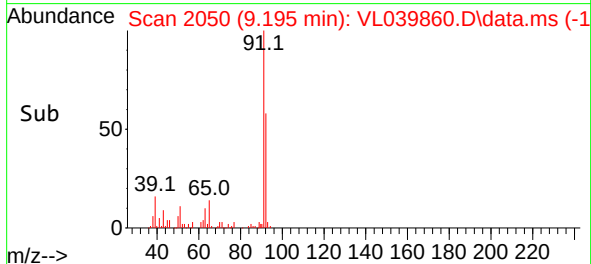
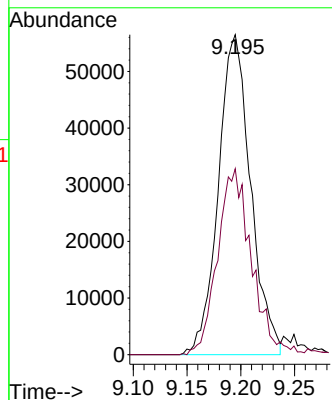
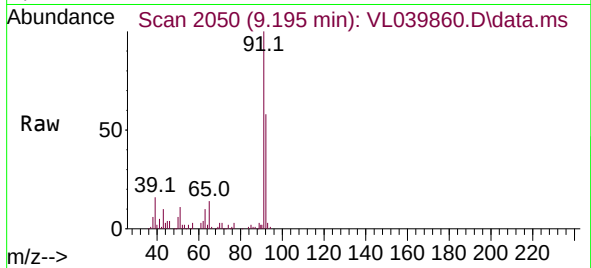




#53
Toluene
Concen: 0.567 ppbv
RT: 9.195 min Scan# 2054
Delta R.T. -0.013 min
Lab File: VL039860.D
Acq: 9 Nov 2022 22:49

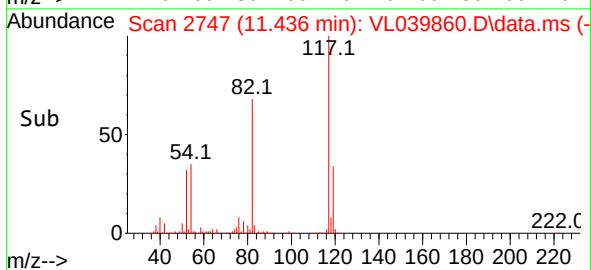
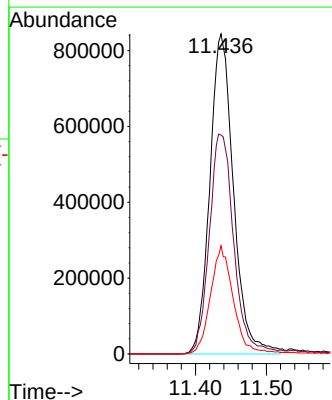
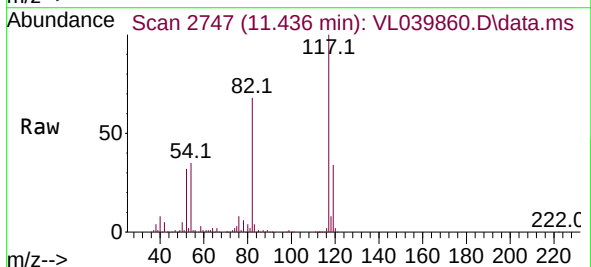
Instrument :
MSVOA_L
ClientSampleId :
IA-18F

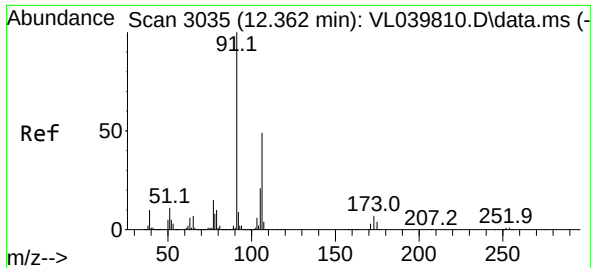
Tgt Ion: 91 Resp: 118009
Ion Ratio Lower Upper
91 100
92 62.0 49.6 74.4



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.436 min Scan# 2747
Delta R.T. -0.016 min
Lab File: VL039860.D
Acq: 9 Nov 2022 22:49

Tgt Ion: 117 Resp: 1955332
Ion Ratio Lower Upper
117 100
82 72.1 51.0 76.6
119 32.9 24.7 37.1





#59

m/p-Xylene

Concen: 0.030 ppbv

RT: 12.339 min Scan# 3035

Delta R.T. -0.022 min

Lab File: VL039860.D

Acq: 9 Nov 2022 22:49

Instrument :

MSVOA_L

ClientSampleId :

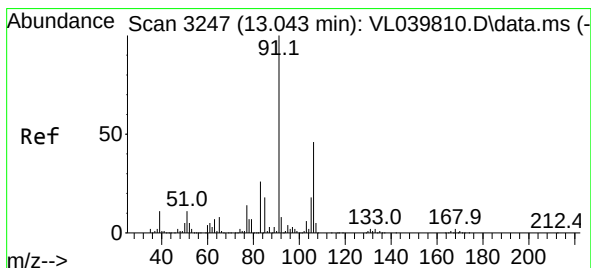
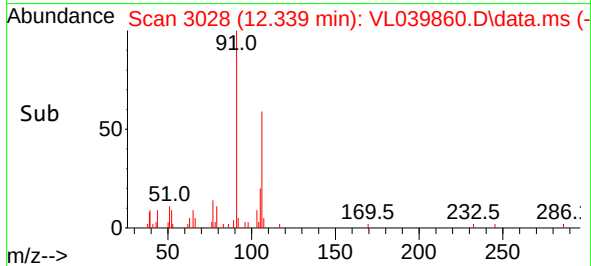
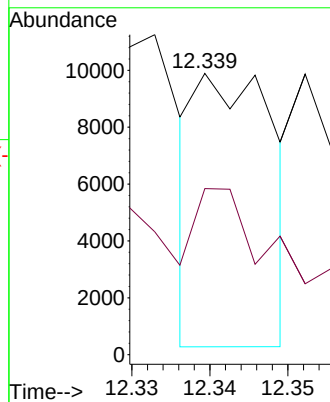
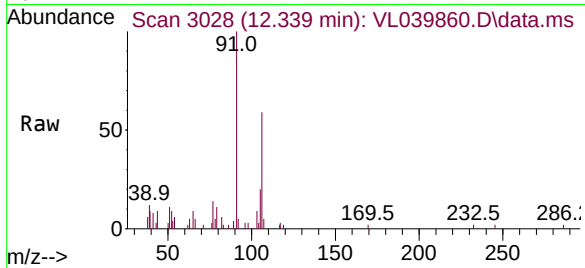
IA-18F

Tgt Ion: 91 Resp: 6695

Ion Ratio Lower Upper

91 100

106 0.0 37.6 56.4#



#60

o-Xylene

Concen: 0.039 ppbv

RT: 13.024 min Scan# 3241

Delta R.T. -0.019 min

Lab File: VL039860.D

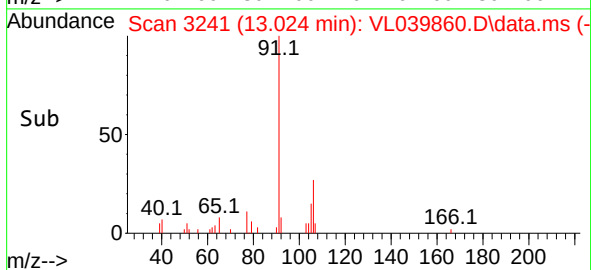
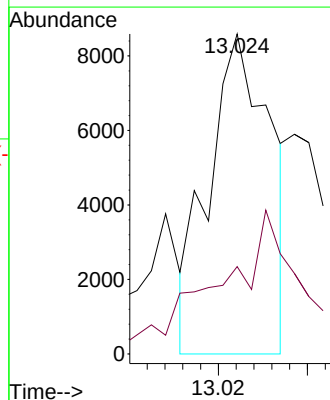
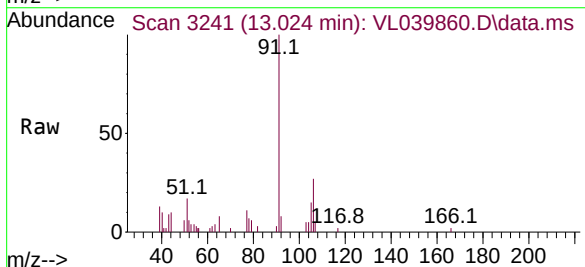
Acq: 9 Nov 2022 22:49

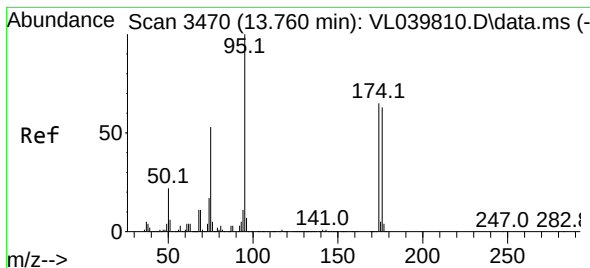
Tgt Ion: 91 Resp: 8253

Ion Ratio Lower Upper

91 100

106 0.0 23.6 70.8#

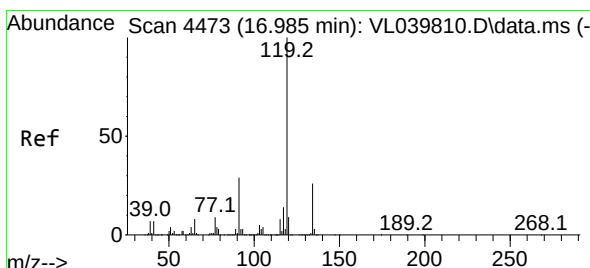
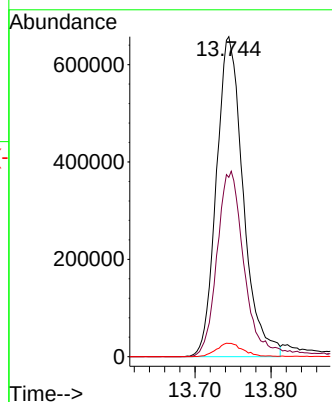
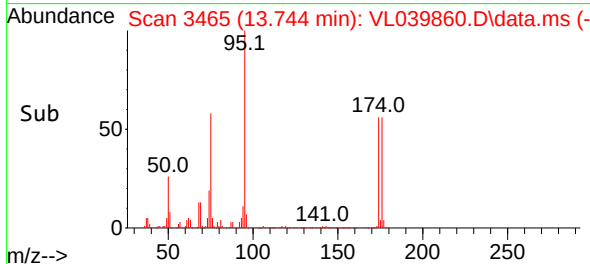
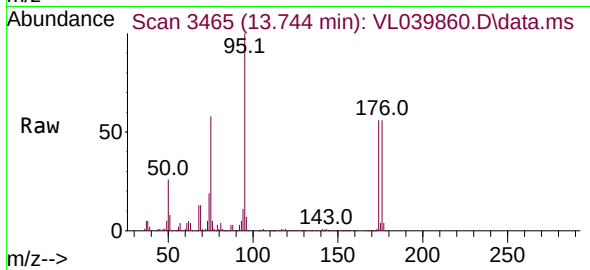




#68
1-Bromo-4-Fluorobenzene
Concen: 10.993 ppbv
RT: 13.744 min Scan# 3470
Delta R.T. -0.016 min
Lab File: VL039860.D
Acq: 9 Nov 2022 22:49

Instrument :
MSVOA_L
ClientSampleId :
IA-18F

Tgt Ion: 95 Resp: 1608894
Ion Ratio Lower Upper
95 100
174 60.8 53.4 80.0
175 4.3 4.1 6.1



#69
p-Isopropyltoluene
Concen: 0.590 ppbv
RT: 16.966 min Scan# 4467
Delta R.T. -0.019 min
Lab File: VL039860.D
Acq: 9 Nov 2022 22:49

Tgt Ion: 119 Resp: 178400
Ion Ratio Lower Upper
119 100
134 27.7 21.0 31.6
91 35.4 22.8 34.2#

