

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112222\
 Data File : VL039924.D
 Acq On : 22 Nov 2022 20:10
 Operator : SY/AP
 Sample : N5767-03DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Quant Time: Nov 23 04:51:12 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)

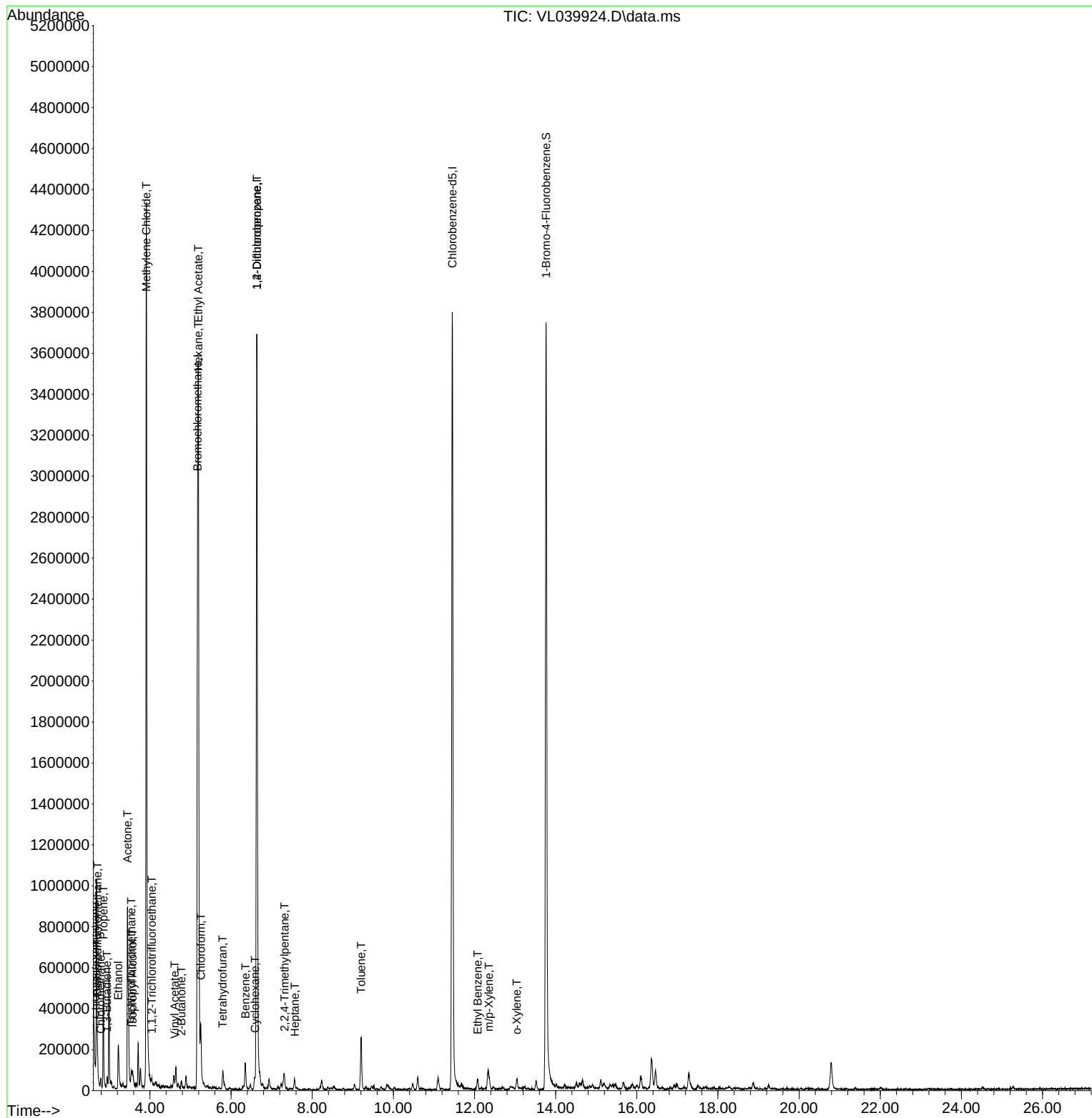
Internal Standards								
1)	Bromochloromethane		5.173	49	1058306	10.000	ppbv	0.02
33)	1,4-Difluorobenzene		6.636	114	2810243	10.000	ppbv	0.02
55)	Chlorobenzene-d5		11.452	117	2491008	10.000	ppbv	0.01
System Monitoring Compounds								
68)	1-Bromo-4-Fluorobenzene		13.764	95	1960056	10.302	ppbv	0.00
Spiked Amount		10.000	Range	65 - 135	Recovery	=	103.000%	
Target Compounds								Qvalue
2)	Dichlorodifluoromethane		2.706	85	83905	0.554	ppbv	99
3)	Chlorodifluoromethane		2.652	51	104825	0.718	ppbv #	83
4)	Chloromethane		2.793	50	34626	0.371	ppbv	92
9)	Propene		2.851	41	118727	1.726	ppbv	96
10)	Heptane		7.571	43	7152	0.043	ppbv #	1
11)	Trichlorofluoromethane		3.542	101	39493	0.214	ppbv	97
12)	1,1,2-Trichlorotrifluo...		4.044	101	10677	0.076	ppbv	92
13)	Ethanol		3.221	45	245344	46.714	ppbv	99
15)	Acetone		3.449	43	940018	6.697	ppbv	95
16)	1,3-Butadiene		2.944	39	13975	0.200	ppbv #	62
19)	Isopropyl Alcohol		3.571	45	79069	1.040	ppbv #	1
20)	Methylene Chloride		3.912	84	1493365	21.959	ppbv	97
23)	Vinyl Acetate		4.610	43	4703	0.082	ppbv #	94
25)	Ethyl Acetate		5.192	43	822586	3.192	ppbv #	76
26)	Hexane		5.195	57	1208397	10.733	ppbv #	38
29)	Chloroform		5.256	83	162473	1.086	ppbv	93
30)	Cyclohexane		6.591	84	6243	0.057	ppbv #	1
34)	2-Butanone		4.777	43	23405	0.174	ppbv #	62
36)	Benzene		6.353	78	96684	0.405	ppbv #	93
39)	1,2-Dichloropropane		6.636	63	691994	7.436	ppbv #	26
41)	Tetrahydrofuran		5.793	42	4537	0.049	ppbv #	36
44)	2,2,4-Trimethylpentane		7.317	57	23742	0.060	ppbv #	42
53)	Toluene		9.205	91	189911	0.698	ppbv	95
58)	Ethyl Benzene		12.079	91	19105	0.057	ppbv	96
59)	m/p-Xylene		12.356	91	12087	0.043	ppbv #	30
60)	o-Xylene		13.044	91	38444	0.143	ppbv	98

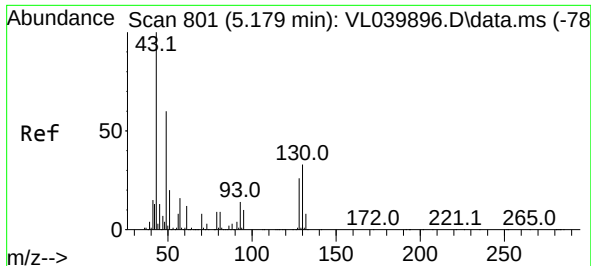
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 23 04:51:12 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11822AIR.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

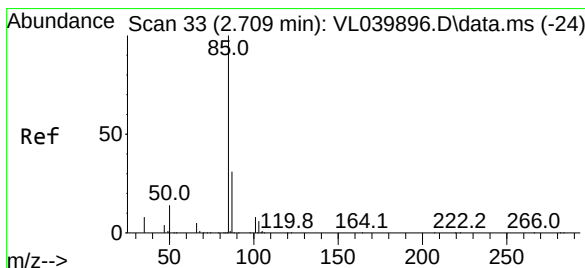
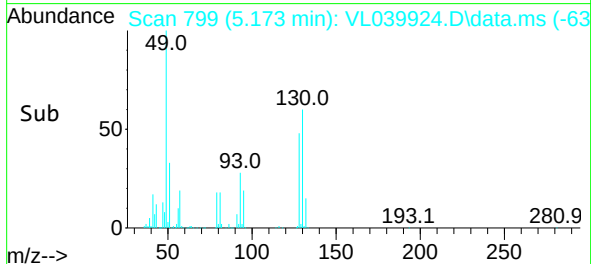
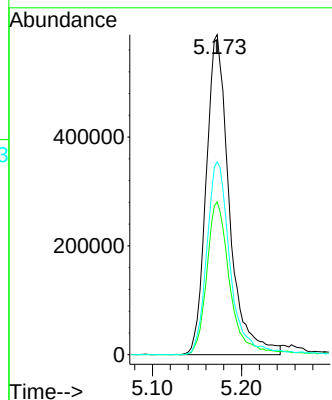
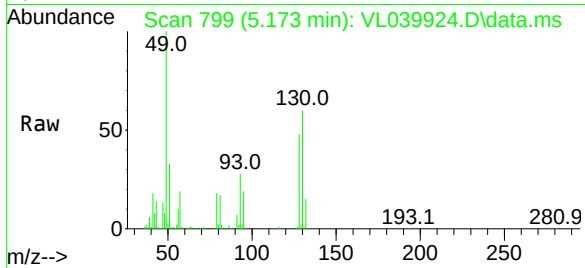




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.173 min Scan# 79
 Delta R.T. 0.017 min
 Lab File: VL039924.D
 Acq: 22 Nov 2022 20:10

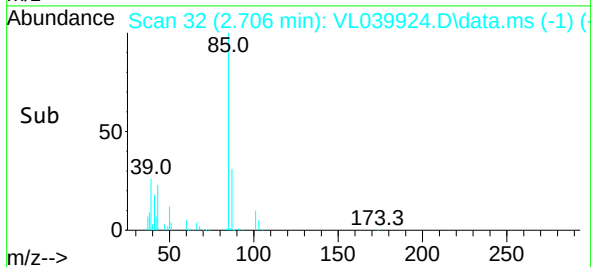
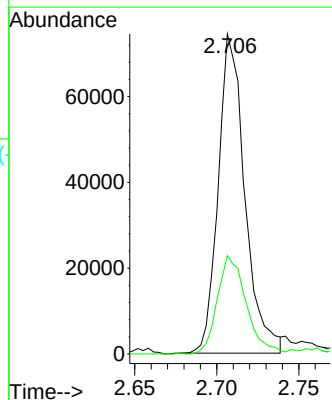
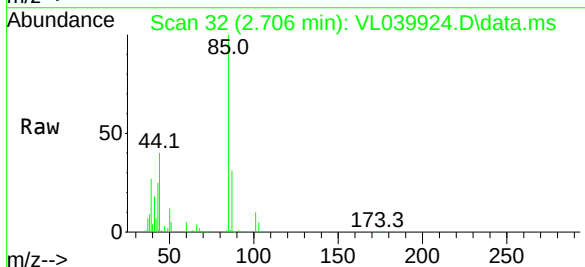
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

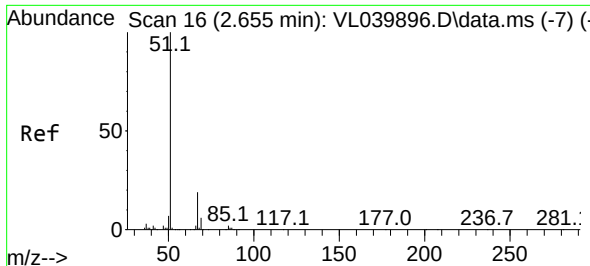
Tgt Ion: 49 Resp: 1058306
 Ion Ratio Lower Upper
 49 100
 128 48.7 22.1 66.3
 130 62.0 27.7 83.1



#2
 Dichlorodifluoromethane
 Concen: 0.554 ppbv
 RT: 2.706 min Scan# 32
 Delta R.T. 0.010 min
 Lab File: VL039924.D
 Acq: 22 Nov 2022 20:10

Tgt Ion: 85 Resp: 83905
 Ion Ratio Lower Upper
 85 100
 87 30.5 25.0 37.4

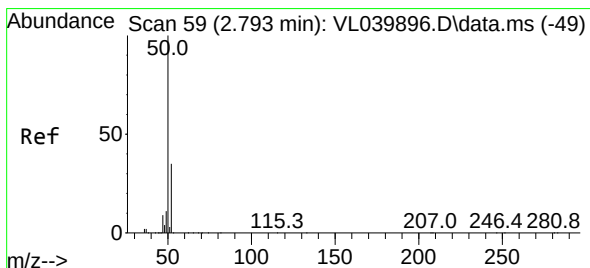
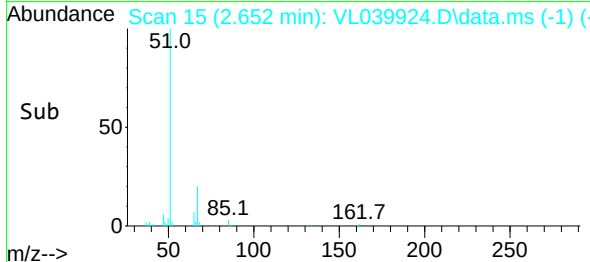
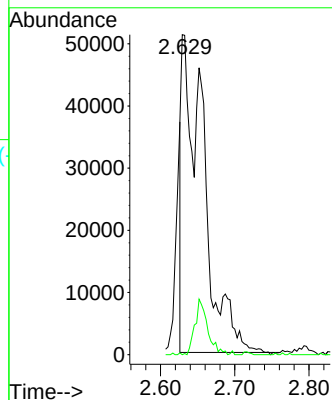
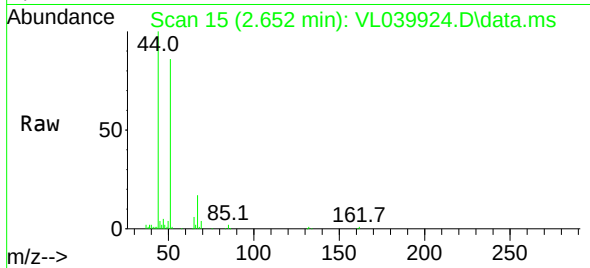




#3
Chlorodifluoromethane
Concen: 0.718 ppbv
RT: 2.652 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL039924.D
Acq: 22 Nov 2022 20:10

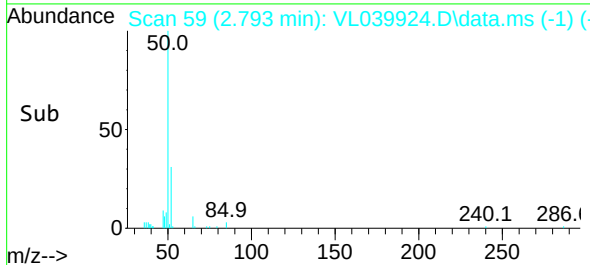
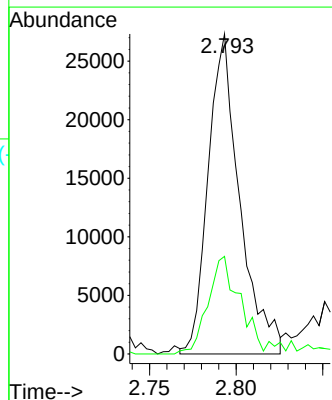
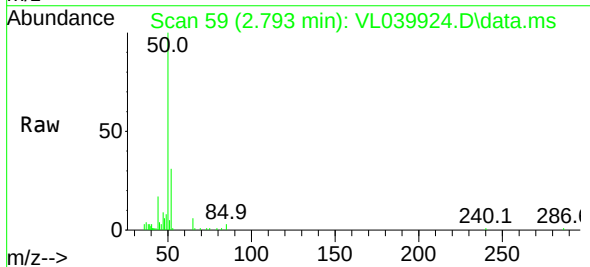
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

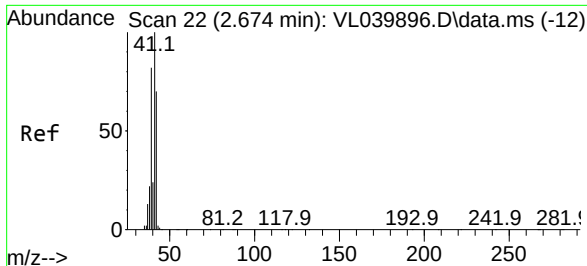
Tgt Ion: 51 Resp: 104825
Ion Ratio Lower Upper
51 100
67 10.3 14.2 21.4#



#4
Chloromethane
Concen: 0.371 ppbv
RT: 2.793 min Scan# 59
Delta R.T. 0.013 min
Lab File: VL039924.D
Acq: 22 Nov 2022 20:10

Tgt Ion: 50 Resp: 34626
Ion Ratio Lower Upper
50 100
52 30.4 27.8 41.8

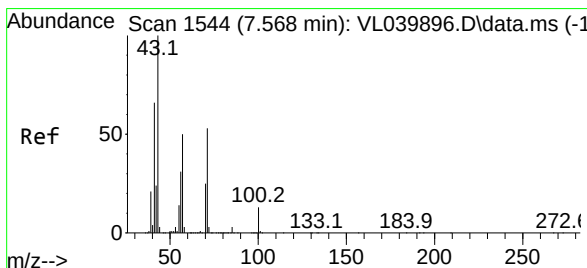
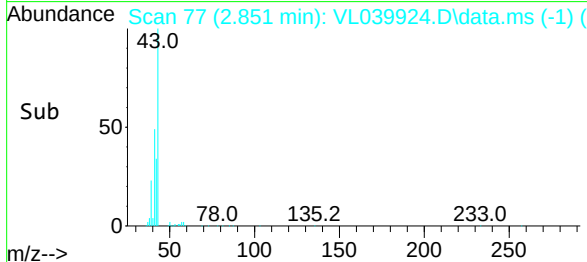
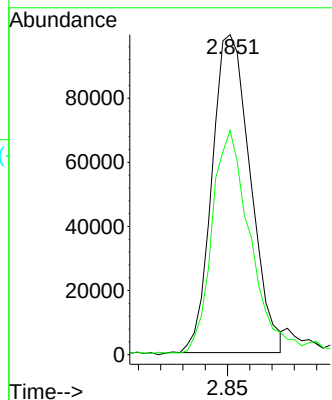
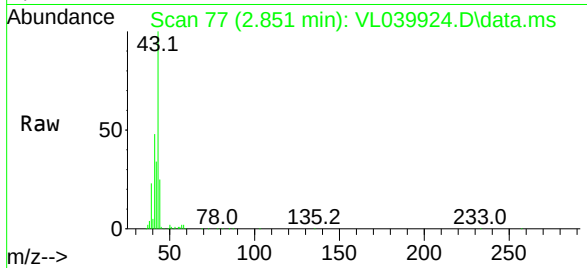




#9
 Propene
 Concen: 1.726 ppbv
 RT: 2.851 min Scan# 71
 Delta R.T. 0.190 min
 Lab File: VL039924.D
 Acq: 22 Nov 2022 20:10

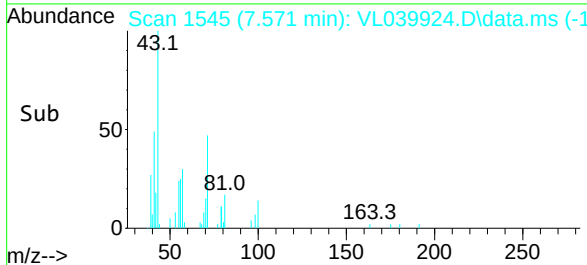
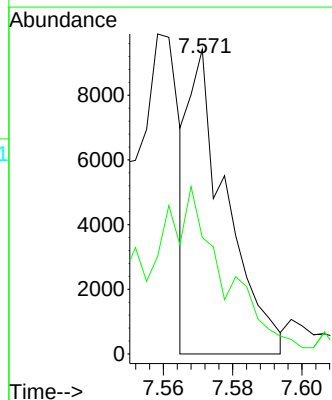
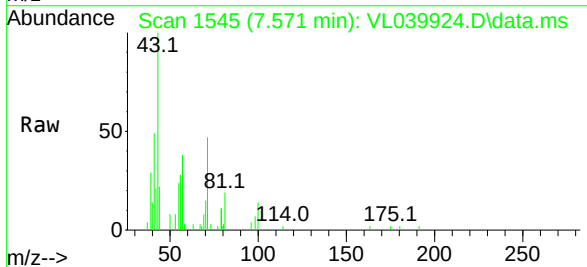
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

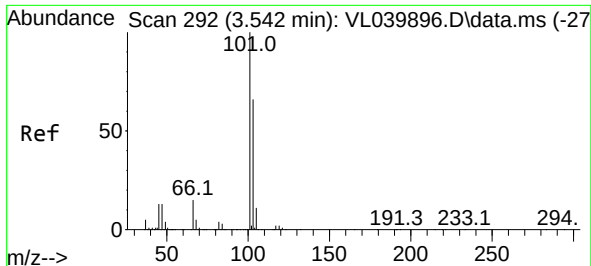
Tgt Ion: 41 Resp: 118727
 Ion Ratio Lower Upper
 41 100
 42 73.3 55.8 83.6



#10
 Heptane
 Concen: 0.043 ppbv
 RT: 7.571 min Scan# 1545
 Delta R.T. 0.026 min
 Lab File: VL039924.D
 Acq: 22 Nov 2022 20:10

Tgt Ion: 43 Resp: 7152
 Ion Ratio Lower Upper
 43 100
 57 134.4 40.7 61.1#

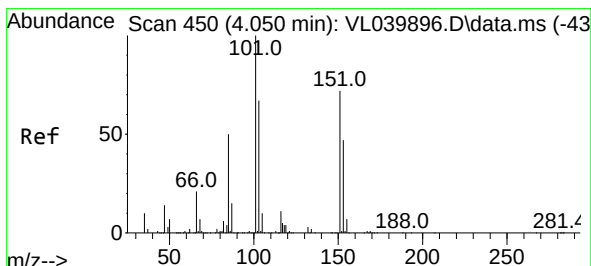
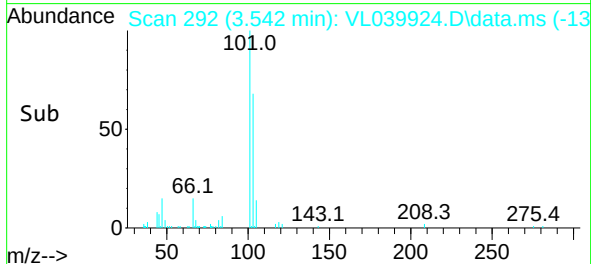
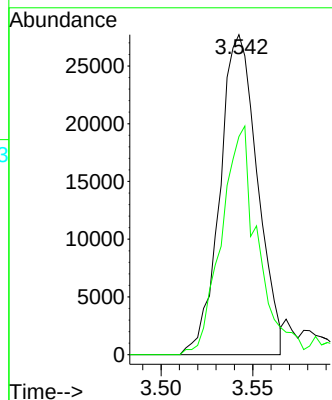
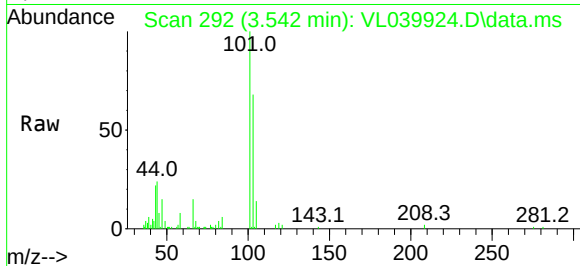




#11
 Trichlorofluoromethane
 Concen: 0.214 ppbv
 RT: 3.542 min Scan# 292
 Delta R.T. 0.013 min
 Lab File: VL039924.D
 Acq: 22 Nov 2022 20:10

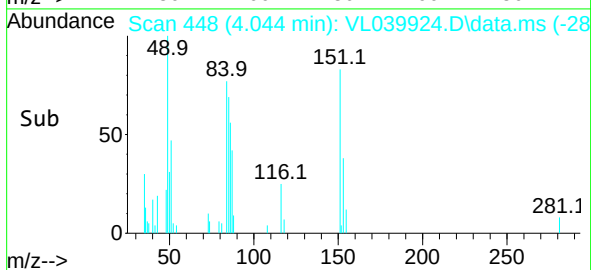
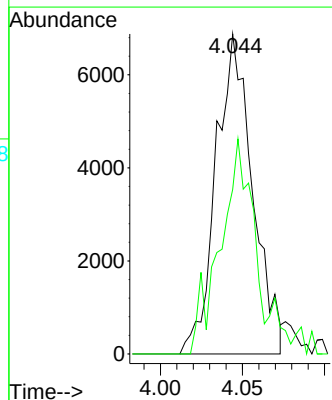
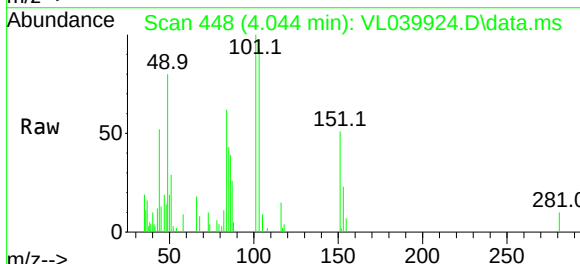
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

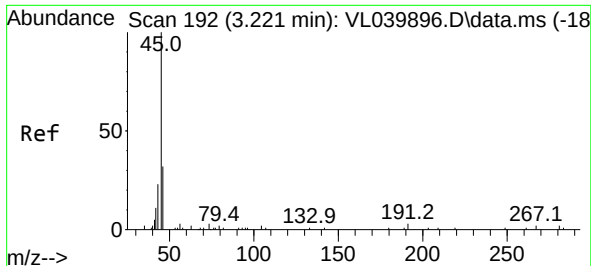
Tgt Ion:101 Resp: 39493
 Ion Ratio Lower Upper
 101 100
 103 68.1 52.6 78.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.076 ppbv
 RT: 4.044 min Scan# 448
 Delta R.T. 0.010 min
 Lab File: VL039924.D
 Acq: 22 Nov 2022 20:10

Tgt Ion:101 Resp: 10677
 Ion Ratio Lower Upper
 101 100
 151 67.9 59.6 89.4

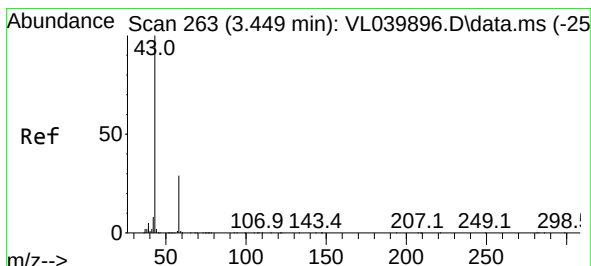
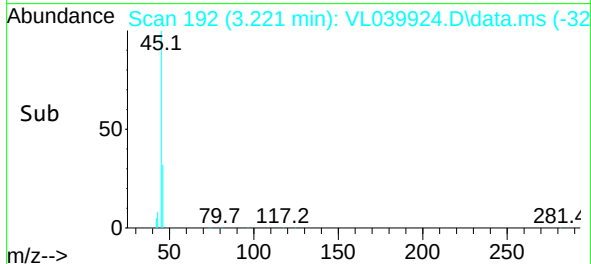
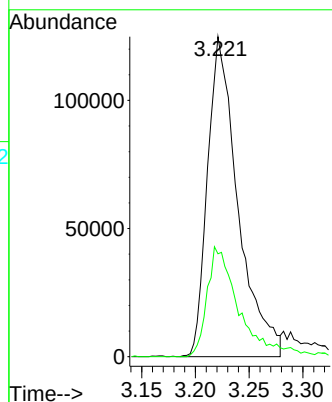
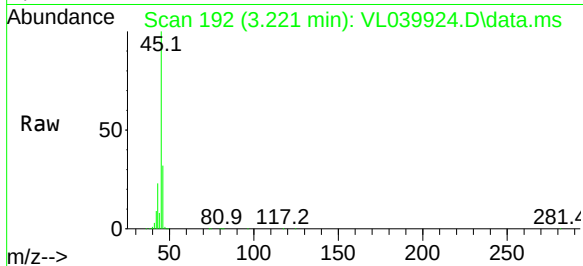




#13
Ethanol
Concen: 46.714 ppbv
RT: 3.221 min Scan# 192
Delta R.T. 0.013 min
Lab File: VL039924.D
Acq: 22 Nov 2022 20:10

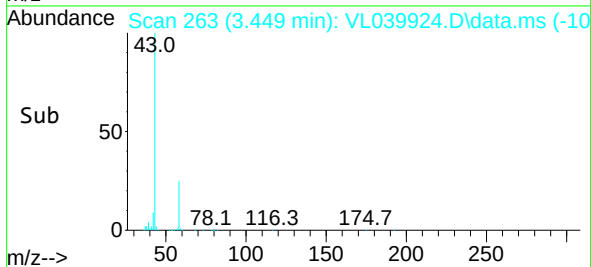
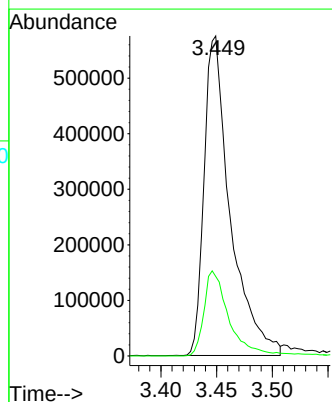
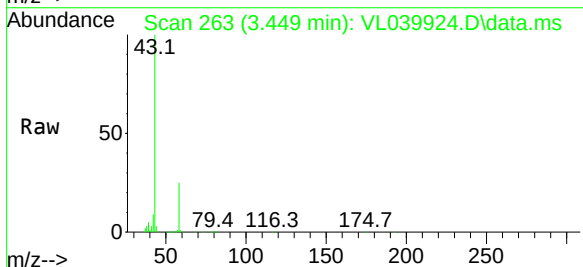
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

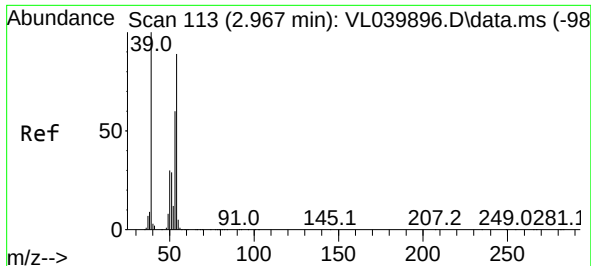
Tgt Ion: 45 Resp: 245344
Ion Ratio Lower Upper
45 100
46 36.9 14.6 58.2



#15
Acetone
Concen: 6.697 ppbv
RT: 3.449 min Scan# 263
Delta R.T. 0.016 min
Lab File: VL039924.D
Acq: 22 Nov 2022 20:10

Tgt Ion: 43 Resp: 940018
Ion Ratio Lower Upper
43 100
58 26.1 22.9 34.3

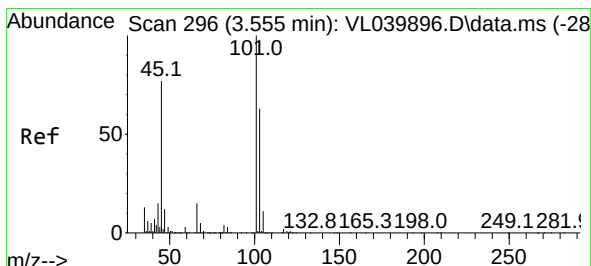
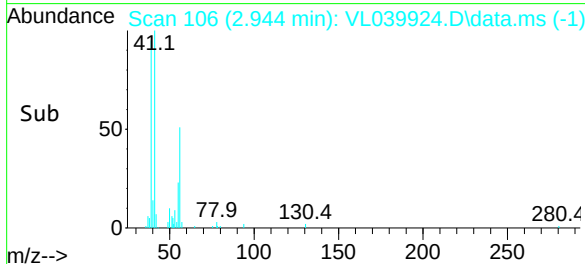
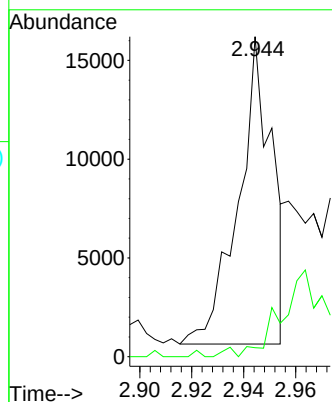
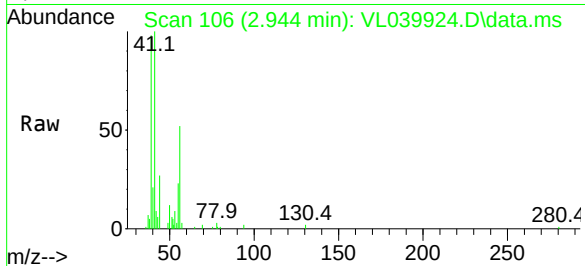




#16
1,3-Butadiene
Concen: 0.200 ppbv
RT: 2.944 min Scan# 106
Delta R.T. -0.010 min
Lab File: VL039924.D
Acq: 22 Nov 2022 20:10

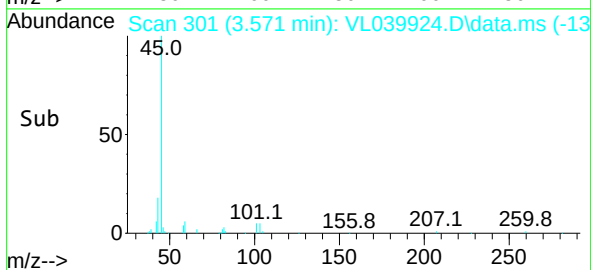
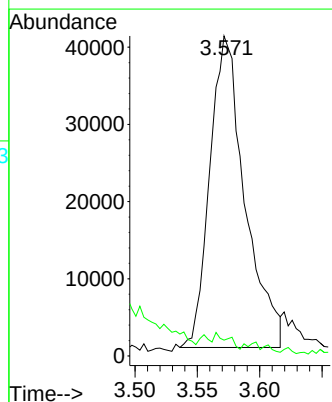
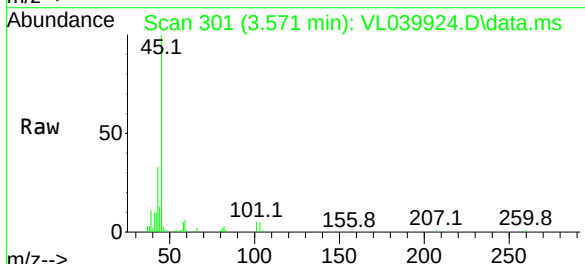
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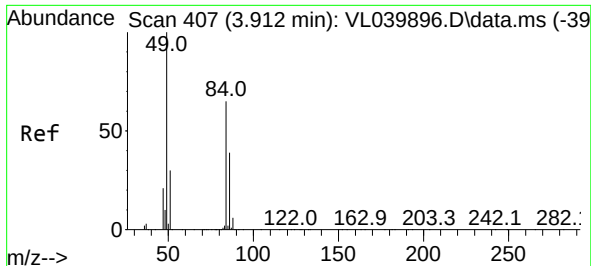
Tgt Ion: 39 Resp: 13975
Ion Ratio Lower Upper
39 100
54 49.0 66.6 99.8#



#19
Isopropyl Alcohol
Concen: 1.040 ppbv
RT: 3.571 min Scan# 301
Delta R.T. 0.029 min
Lab File: VL039924.D
Acq: 22 Nov 2022 20:10

Tgt Ion: 45 Resp: 79069
Ion Ratio Lower Upper
45 100
58 309.4 38.7 58.1#





#20

Methylene Chloride

Concen: 21.959 ppbv

RT: 3.912 min Scan# 407

Delta R.T. 0.013 min

Lab File: VL039924.D

Acq: 22 Nov 2022 20:10

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 84 Resp: 1493365

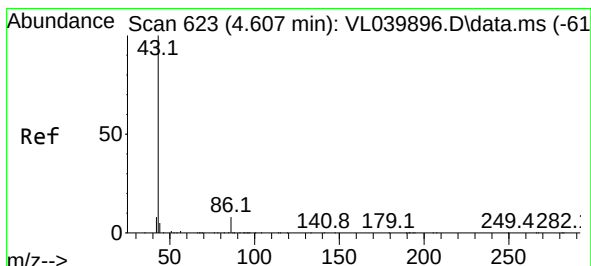
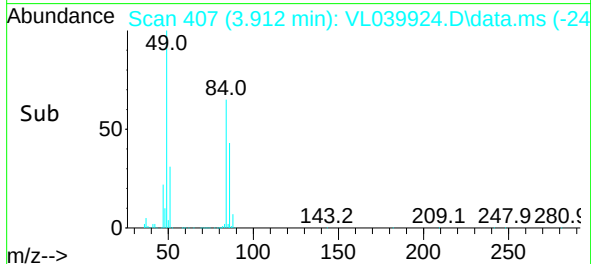
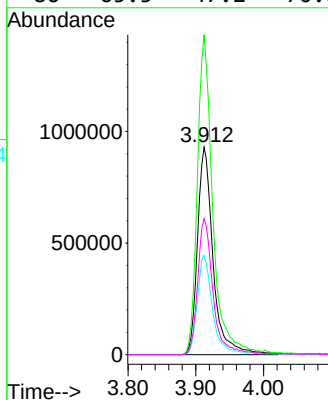
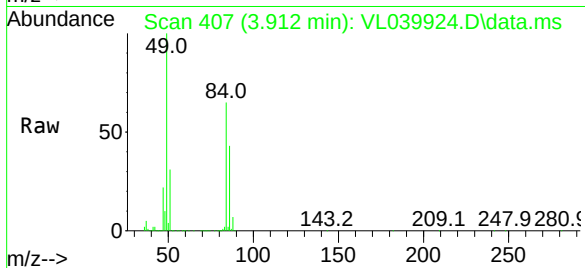
Ion Ratio Lower Upper

84 100

49 154.1 122.2 183.4

51 47.8 36.3 54.5

86 65.5 47.2 70.8



#23

Vinyl Acetate

Concen: 0.082 ppbv

RT: 4.610 min Scan# 624

Delta R.T. 0.019 min

Lab File: VL039924.D

Acq: 22 Nov 2022 20:10

Tgt Ion: 43 Resp: 4703

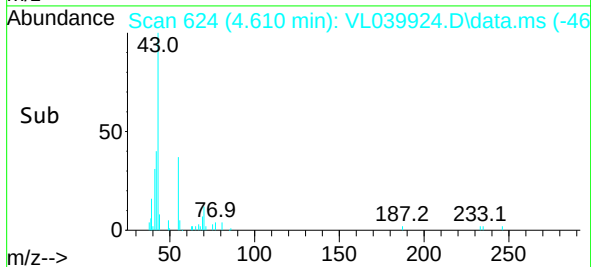
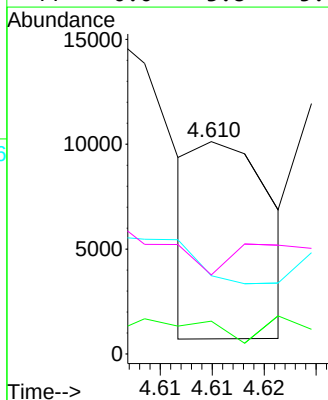
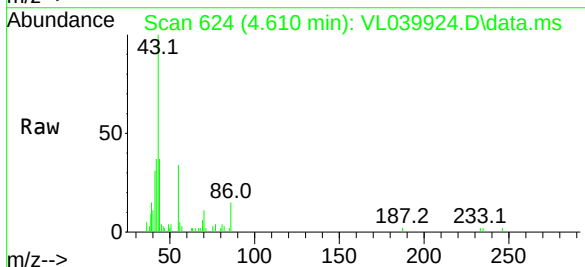
Ion Ratio Lower Upper

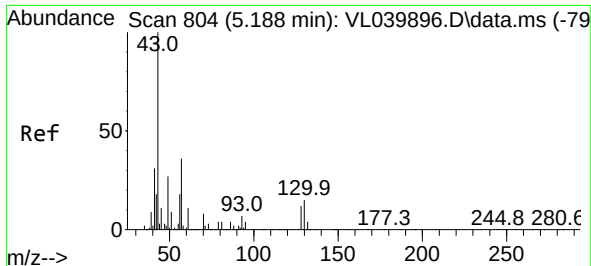
43 100

86 7.5 5.0 7.4#

42 10.7 7.6 11.4

44 0.0 3.8 5.6#

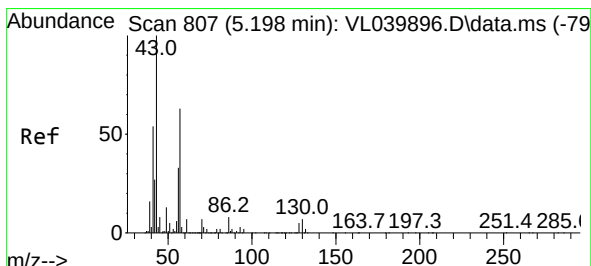
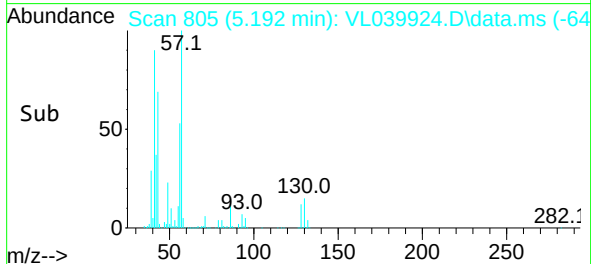
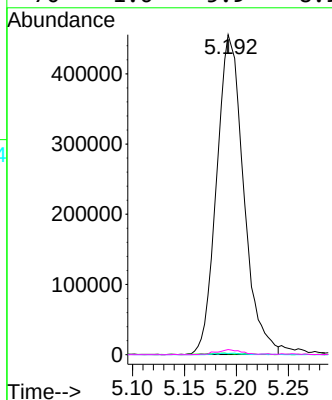
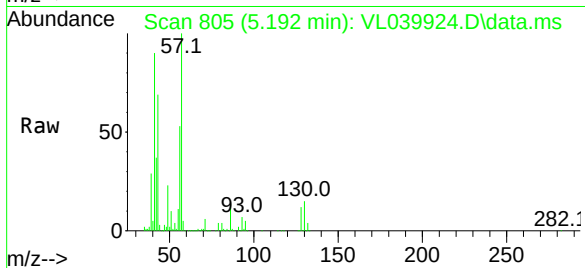




#25
Ethyl Acetate
Concen: 3.192 ppbv
RT: 5.192 min Scan# 804
Delta R.T. 0.023 min
Lab File: VL039924.D
Acq: 22 Nov 2022 20:10

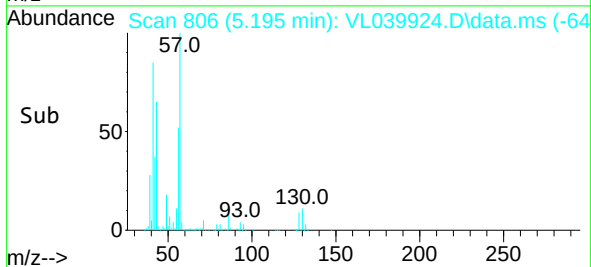
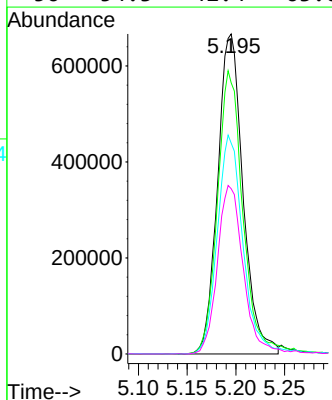
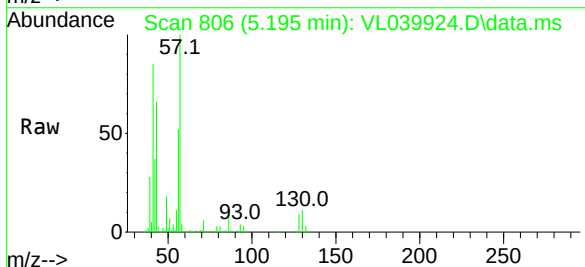
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

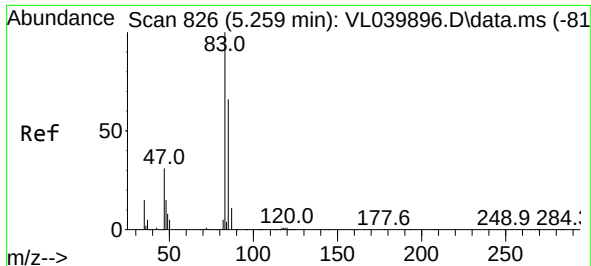
Tgt Ion:	43	Resp:	822586
Ion	Ratio	Lower	Upper
43	100		
45	0.8	8.4	12.6#
61	0.5	8.5	12.7#
70	1.6	5.9	8.9#



#26
Hexane
Concen: 10.733 ppbv
RT: 5.195 min Scan# 806
Delta R.T. 0.013 min
Lab File: VL039924.D
Acq: 22 Nov 2022 20:10

Tgt Ion:	57	Resp:	1208397
Ion	Ratio	Lower	Upper
57	100		
41	89.5	72.3	108.5
43	70.1	188.7	283.1#
56	54.3	42.4	63.6

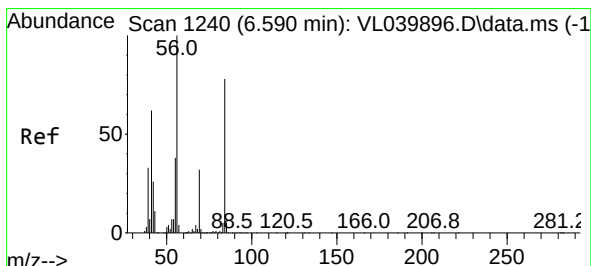
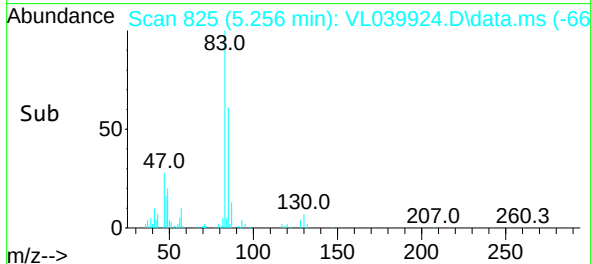
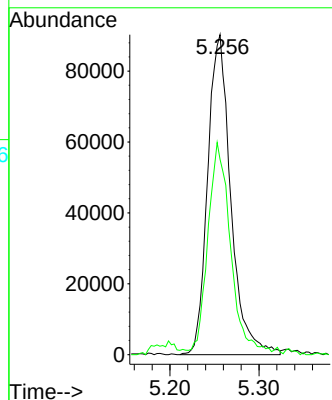
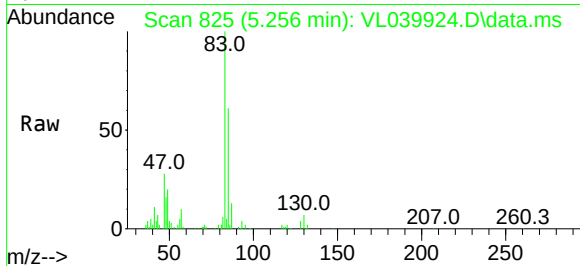




#29
Chloroform
Concen: 1.086 ppbv
RT: 5.256 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL039924.D
Acq: 22 Nov 2022 20:10

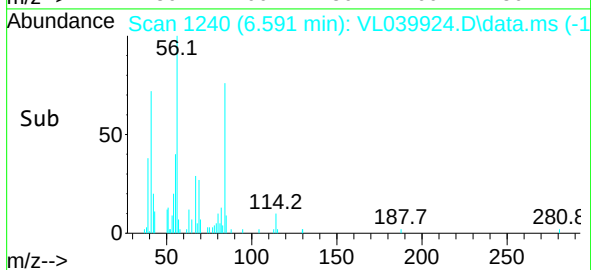
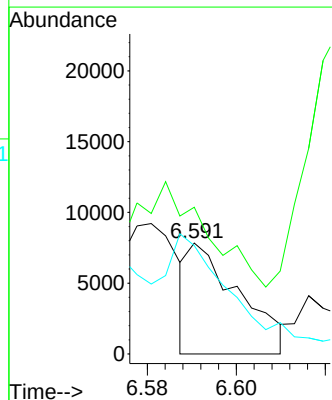
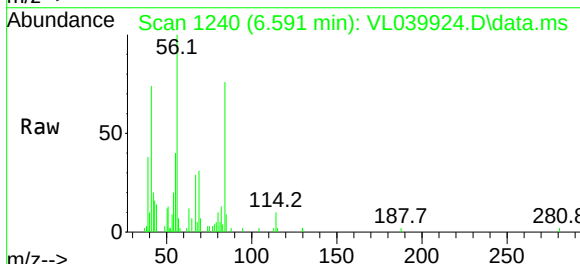
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

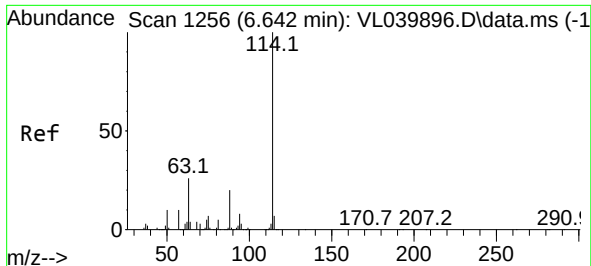
Tgt Ion: 83 Resp: 162473
Ion Ratio Lower Upper
83 100
85 60.2 52.4 78.6



#30
Cyclohexane
Concen: 0.057 ppbv
RT: 6.591 min Scan# 1240
Delta R.T. 0.023 min
Lab File: VL039924.D
Acq: 22 Nov 2022 20:10

Tgt Ion: 84 Resp: 6243
Ion Ratio Lower Upper
84 100
56 398.7 112.5 168.7#
41 296.9 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: VL039924.D

Acq: 22 Nov 2022 20:10

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

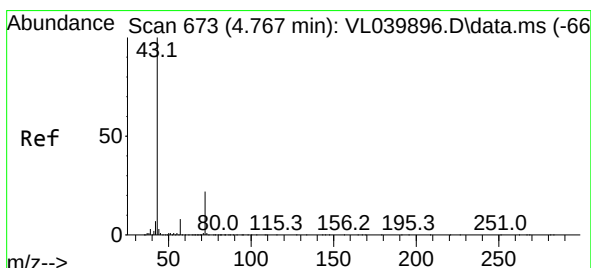
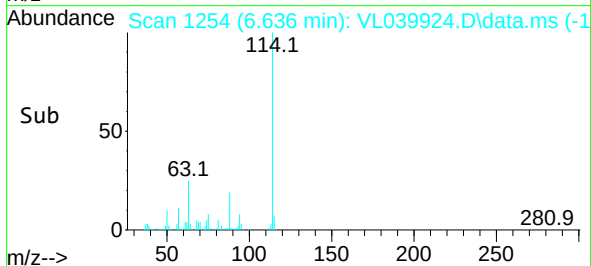
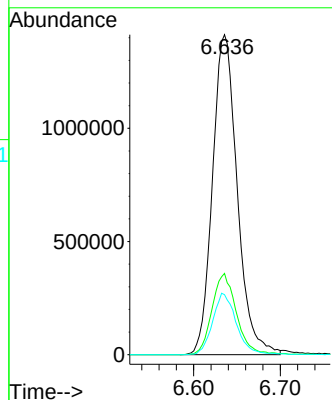
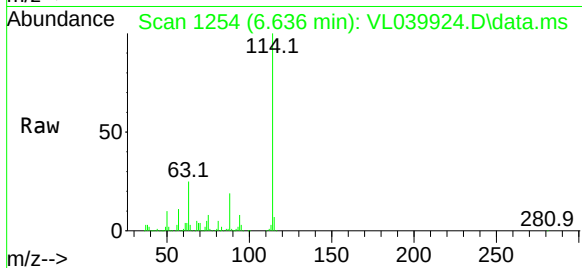
Tgt Ion:114 Resp: 2810243

Ion Ratio Lower Upper

114 100

63 25.3 21.4 32.0

88 18.6 15.3 22.9



#34

2-Butanone

Concen: 0.174 ppbv

RT: 4.777 min Scan# 676

Delta R.T. 0.026 min

Lab File: VL039924.D

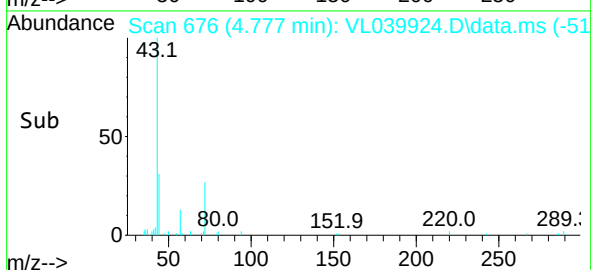
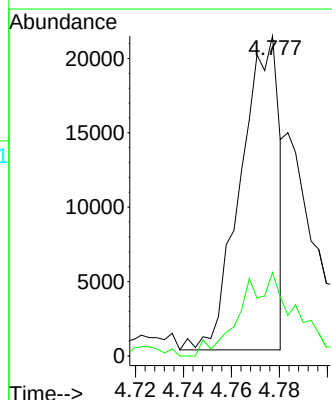
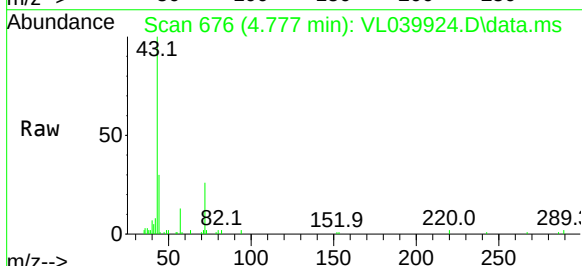
Acq: 22 Nov 2022 20:10

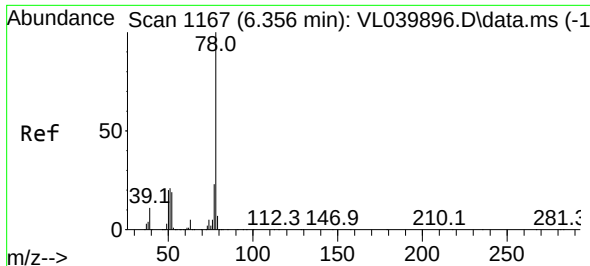
Tgt Ion: 43 Resp: 23405

Ion Ratio Lower Upper

43 100

72 39.8 17.4 26.2#

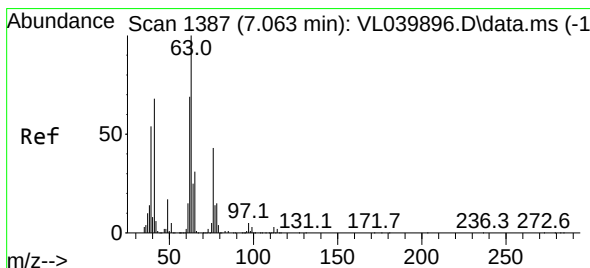
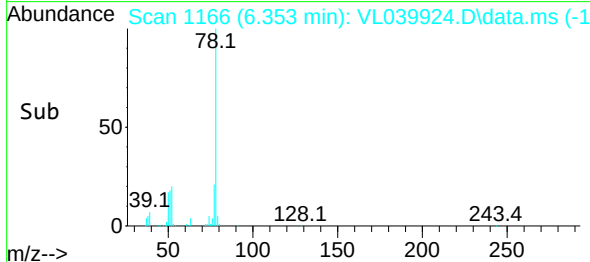
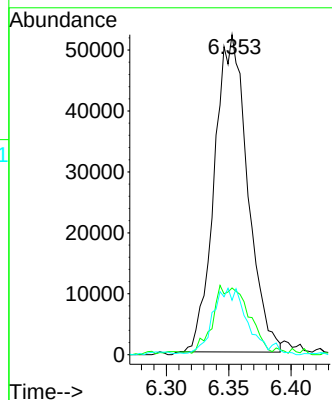
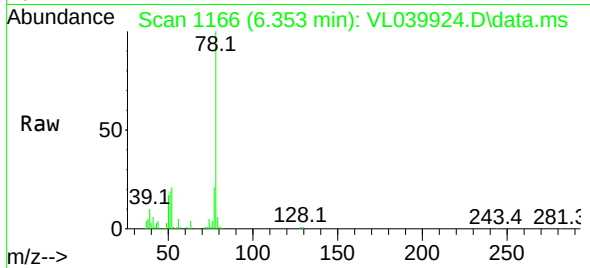




#36
Benzene
Concen: 0.405 ppbv
RT: 6.353 min Scan# 1166
Delta R.T. 0.016 min
Lab File: VL039924.D
Acq: 22 Nov 2022 20:10

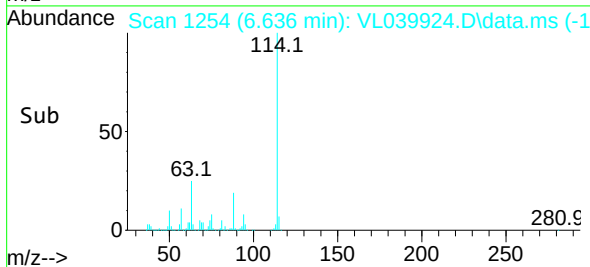
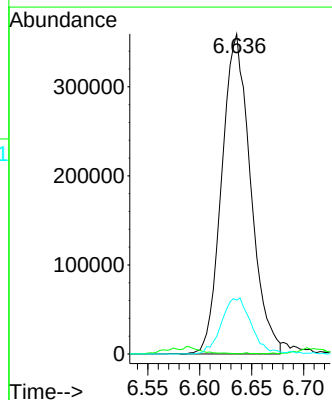
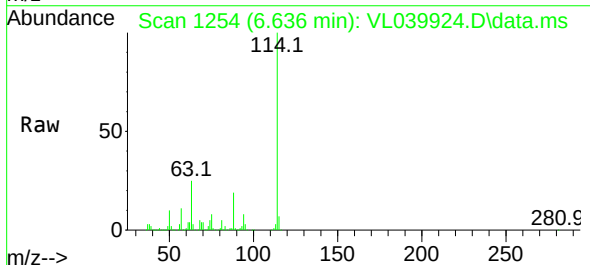
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

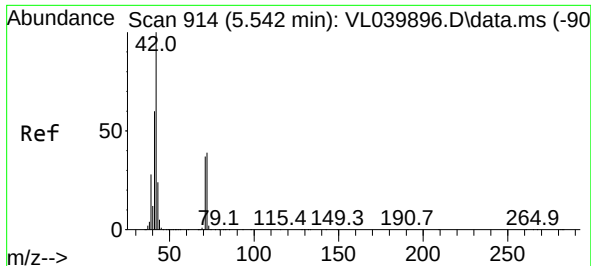
Tgt Ion: 78 Resp: 96684
Ion Ratio Lower Upper
78 100
77 20.2 18.2 27.2
50 15.8 15.8 23.8#



#39
1,2-Dichloropropane
Concen: 7.436 ppbv
RT: 6.636 min Scan# 1254
Delta R.T. -0.405 min
Lab File: VL039924.D
Acq: 22 Nov 2022 20:10

Tgt Ion: 63 Resp: 691994
Ion Ratio Lower Upper
63 100
41 0.2 54.7 82.1#
62 16.8 55.0 82.6#





#41

Tetrahydrofuran

Concen: 0.049 ppbv

RT: 5.793 min Scan# 914

Delta R.T. 0.270 min

Lab File: VL039924.D

Acq: 22 Nov 2022 20:10

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

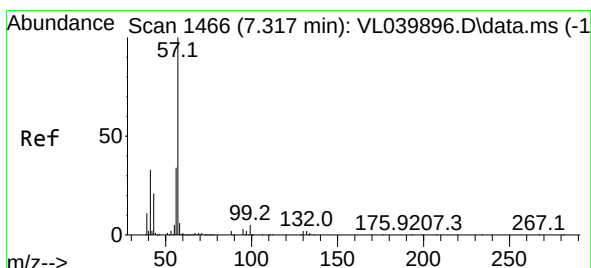
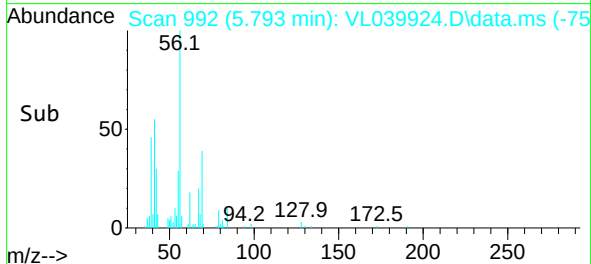
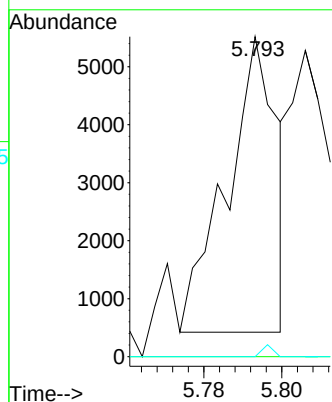
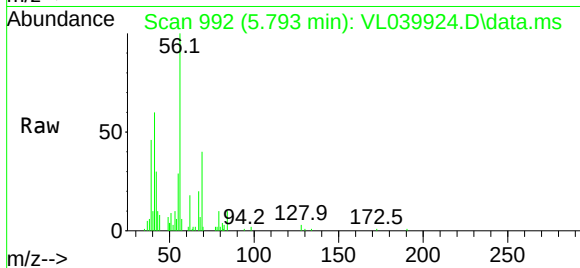
Tgt Ion: 42 Resp: 4537

Ion Ratio Lower Upper

42 100

72 0.0 31.6 47.4#

71 0.0 31.2 46.8#



#44

2,2,4-Trimethylpentane

Concen: 0.060 ppbv

RT: 7.317 min Scan# 1466

Delta R.T. 0.023 min

Lab File: VL039924.D

Acq: 22 Nov 2022 20:10

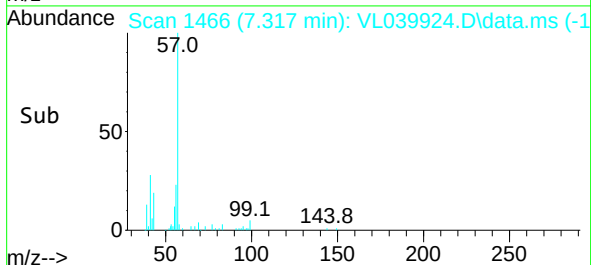
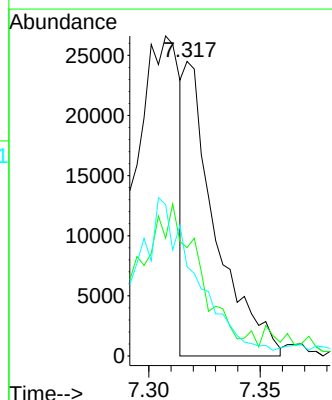
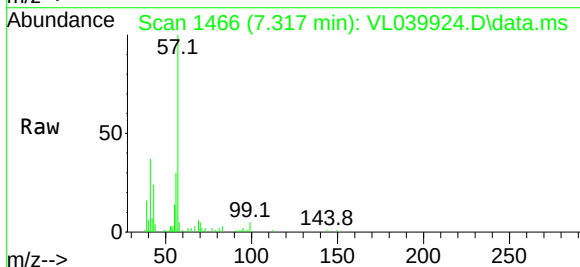
Tgt Ion: 57 Resp: 23742

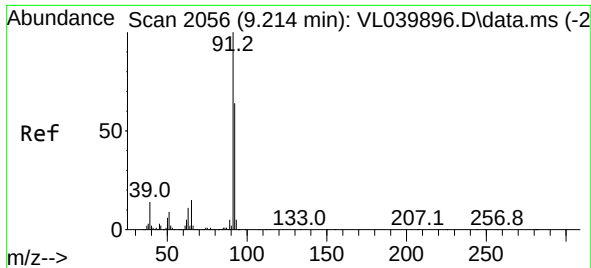
Ion Ratio Lower Upper

57 100

41 0.0 26.2 39.2#

56 0.0 25.5 38.3#

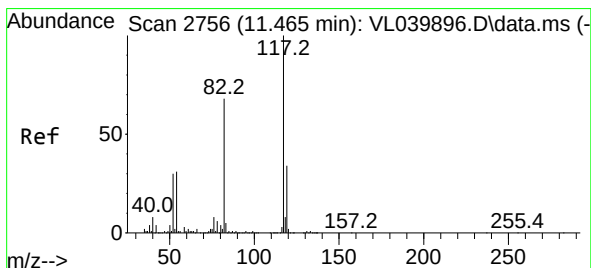
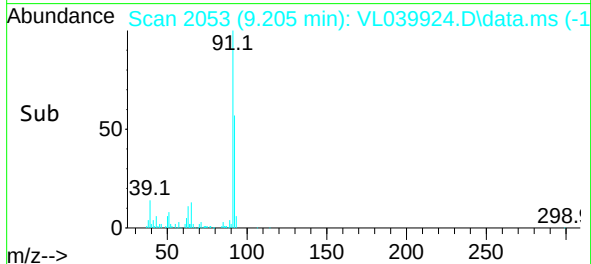
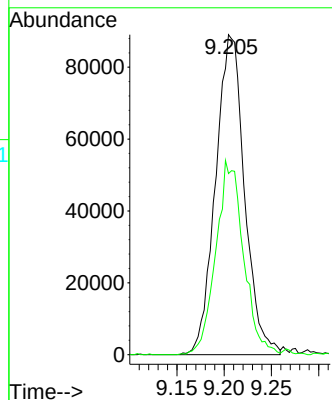
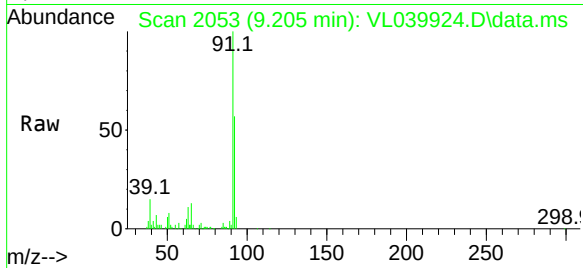




#53
Toluene
Concen: 0.698 ppbv
RT: 9.205 min Scan# 2056
Delta R.T. 0.013 min
Lab File: VL039924.D
Acq: 22 Nov 2022 20:10

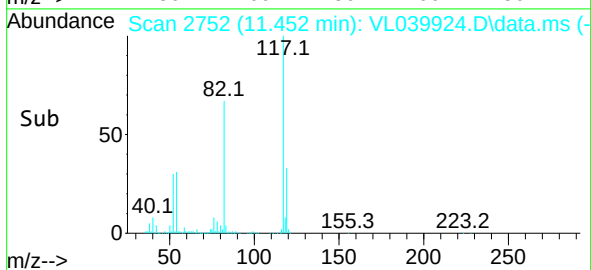
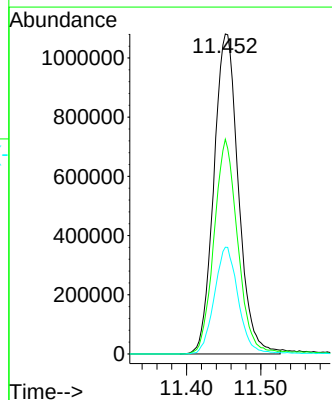
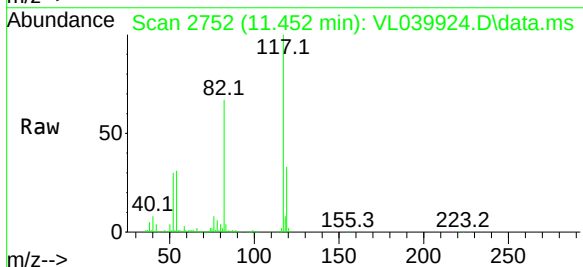
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

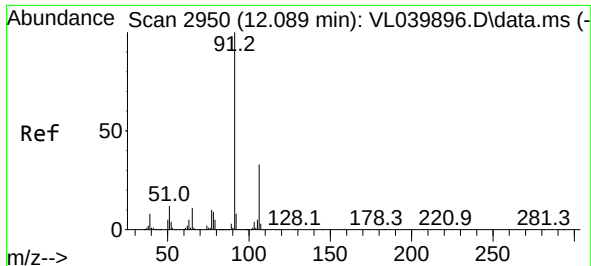
Tgt Ion: 91 Resp: 189911
Ion Ratio Lower Upper
91 100
92 58.3 49.8 74.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 2752
Delta R.T. 0.013 min
Lab File: VL039924.D
Acq: 22 Nov 2022 20:10

Tgt Ion: 117 Resp: 2491008
Ion Ratio Lower Upper
117 100
82 65.6 52.3 78.5
119 32.8 25.7 38.5





#58

Ethyl Benzene

Concen: 0.057 ppbv

RT: 12.079 min Scan# 2947

Delta R.T. 0.016 min

Lab File: VL039924.D

Acq: 22 Nov 2022 20:10

Instrument :

MSVOA_L

ClientSampleId :

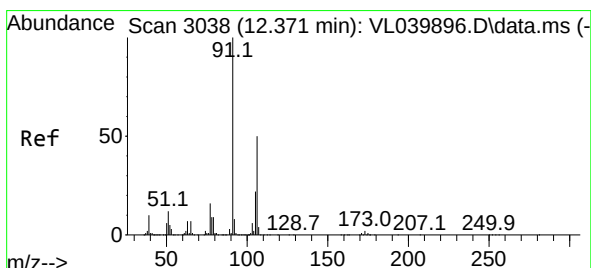
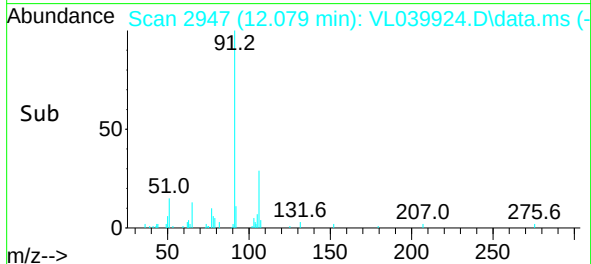
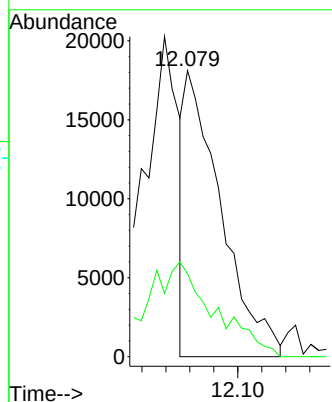
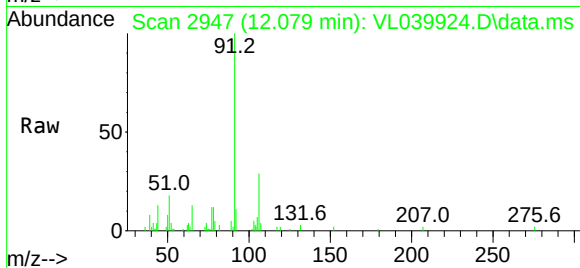
IA1DUP

Tgt Ion: 91 Resp: 19105

Ion Ratio Lower Upper

91 100

106 30.2 26.1 39.1



#59

m/p-Xylene

Concen: 0.043 ppbv

RT: 12.356 min Scan# 3033

Delta R.T. 0.010 min

Lab File: VL039924.D

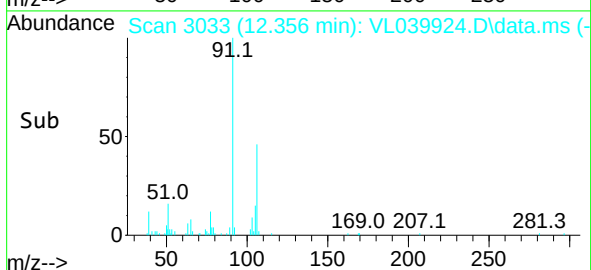
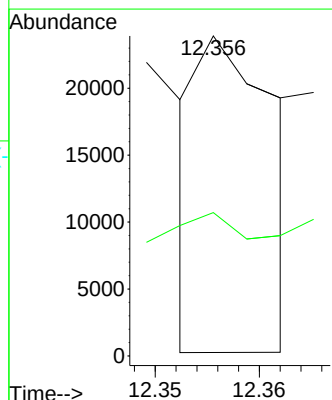
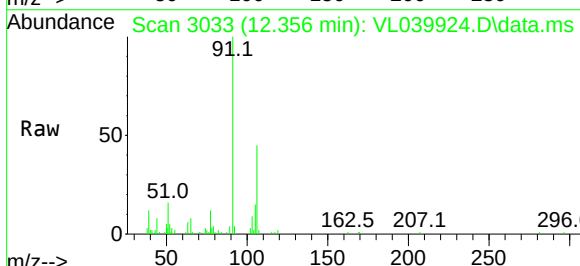
Acq: 22 Nov 2022 20:10

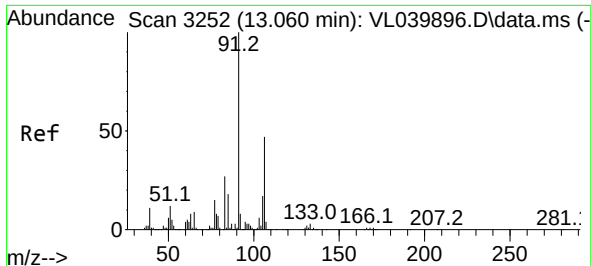
Tgt Ion: 91 Resp: 12087

Ion Ratio Lower Upper

91 100

106 0.0 37.0 55.6#

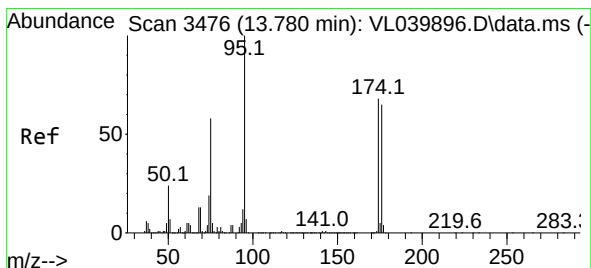
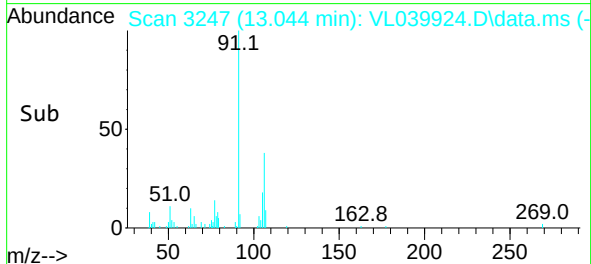
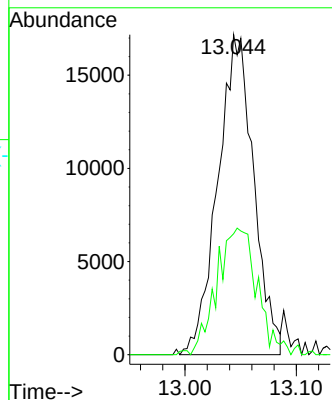
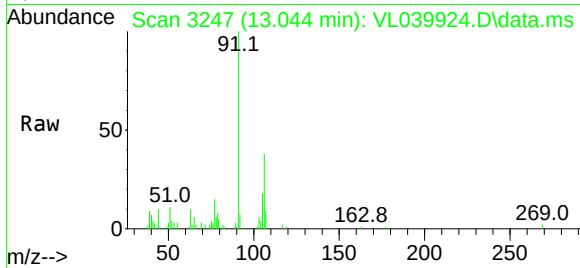




#60
o-Xylene
Concen: 0.143 ppbv
RT: 13.044 min Scan# 31
Delta R.T. 0.007 min
Lab File: VL039924.D
Acq: 22 Nov 2022 20:10

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 91 Resp: 38444
Ion Ratio Lower Upper
91 100
106 45.1 23.2 69.6



#68
1-Bromo-4-Fluorobenzene
Concen: 10.302 ppbv
RT: 13.764 min Scan# 3471
Delta R.T. 0.010 min
Lab File: VL039924.D
Acq: 22 Nov 2022 20:10

Tgt Ion: 95 Resp: 1960056
Ion Ratio Lower Upper
95 100
174 61.5 53.7 80.5
175 4.4 4.0 6.0

