

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111022\
 Data File : VL039878.D
 Acq On : 11 Nov 2022 00:30
 Operator : SY/AP
 Sample : N5584-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 11 05:04:27 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	5.198	49	933836	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.651	114	1996363	10.000	ppbv	# 0.00
55) Chlorobenzene-d5	11.458	117	1759716	10.000	ppbv	# 0.00

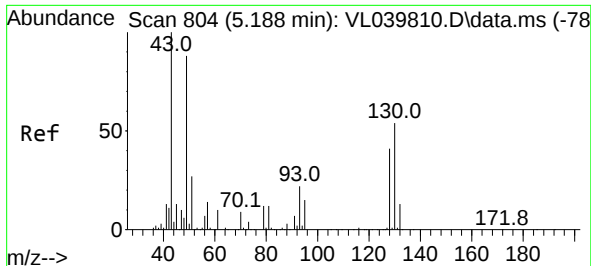
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1493148	11.336	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	113.400%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.751	85	13413	0.085	ppbv	99
3) Chlorodifluoromethane	2.697	51	10202	0.092	ppbv	99
9) Propene	2.726	41	13174	0.227	ppbv	97
11) Trichlorofluoromethane	3.581	101	8267	0.064	ppbv	94
13) Ethanol	3.259	45	457	0.111	ppbv	# 34
15) Acetone	3.491	43	144697	1.273	ppbv	94
16) 1,3-Butadiene	2.986	39	13779	0.261	ppbv	# 14
20) Methylene Chloride	3.951	84	32473	0.799	ppbv	# 79
23) Vinyl Acetate	4.639	43	21804	0.481	ppbv	# 83
25) Ethyl Acetate	5.217	43	75576	0.323	ppbv	# 77
26) Hexane	5.217	57	106800	1.023	ppbv	# 34
34) 2-Butanone	4.815	43	10686	0.130	ppbv	# 88
39) 1,2-Dichloropropane	6.651	63	604004	9.206	ppbv	# 28
44) 2,2,4-Trimethylpentane	7.320	57	11601	0.041	ppbv	# 43
52) Tetrachloroethene	10.606	164	142744	2.262	ppbv	# 86
53) Toluene	9.217	91	38651	0.200	ppbv	# 16
58) Ethyl Benzene	12.085	91	18998	0.080	ppbv	98
59) m/p-Xylene	12.362	91	31773	0.160	ppbv	# 30
60) o-Xylene	13.047	91	31699	0.168	ppbv	# 63
72) 4-Ethyltoluene	15.188	105	24290	0.115	ppbv	# 89
74) 1,2,4-Trimethylbenzene	16.101	105	79118	0.396	ppbv	# 64

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

Quant Time: Nov 11 05:04:27 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110222AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Nov 03 09:27:12 2022
Response via : Initial Calibration

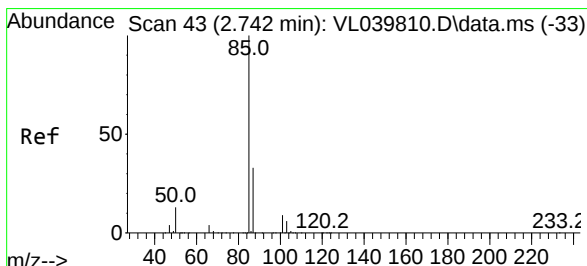
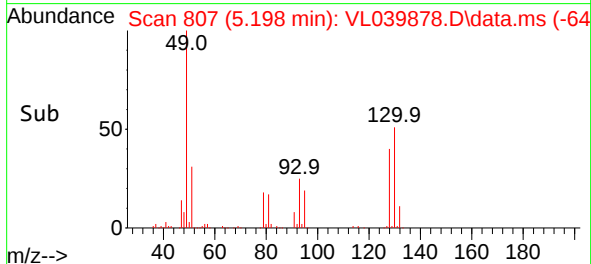
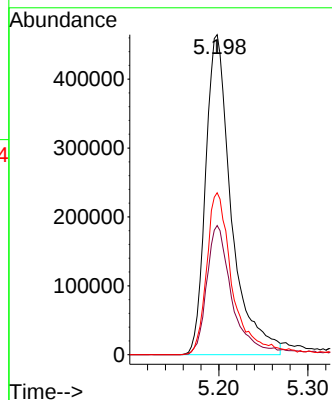
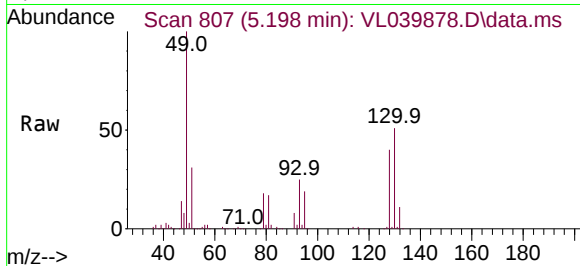




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.198 min Scan# 80
 Delta R.T. 0.010 min
 Lab File: VL039878.D
 Acq: 11 Nov 2022 00:30

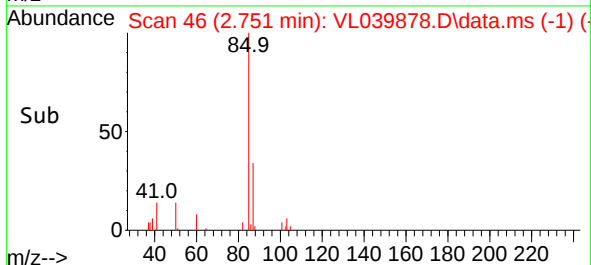
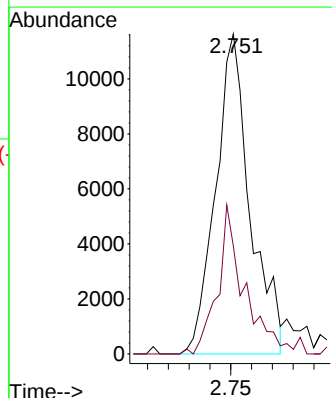
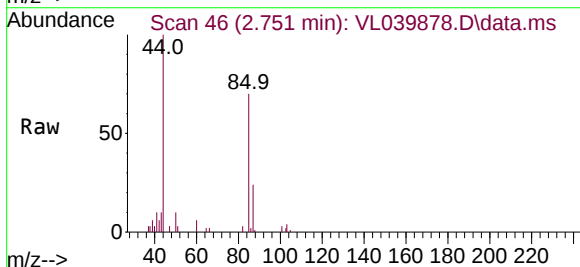
Instrument :
 MSVOA_L
 ClientSampleId :

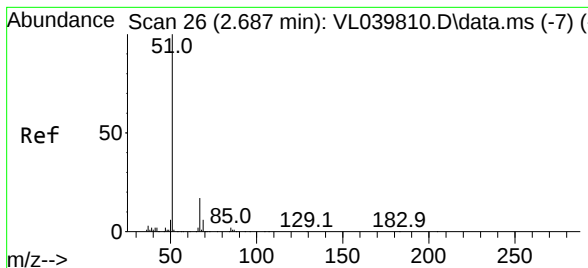
Tgt Ion: 49 Resp: 933836
 Ion Ratio Lower Upper
 49 100
 128 41.7 24.6 73.6
 130 52.9 31.1 93.2



#2
 Dichlorodifluoromethane
 Concen: 0.085 ppbv
 RT: 2.751 min Scan# 46
 Delta R.T. 0.010 min
 Lab File: VL039878.D
 Acq: 11 Nov 2022 00:30

Tgt Ion: 85 Resp: 13413
 Ion Ratio Lower Upper
 85 100
 87 33.7 26.4 39.6





#3

Chlorodifluoromethane

Concen: 0.092 ppbv

RT: 2.697 min Scan# 24

Delta R.T. 0.010 min

Lab File: VL039878.D

Acq: 11 Nov 2022 00:30

Instrument :

MSVOA_L

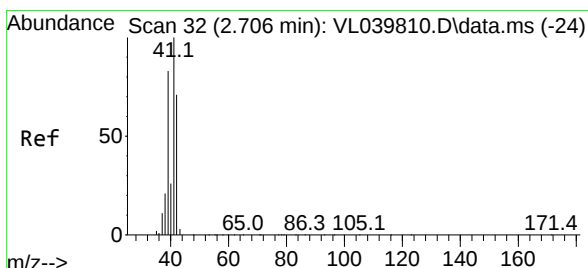
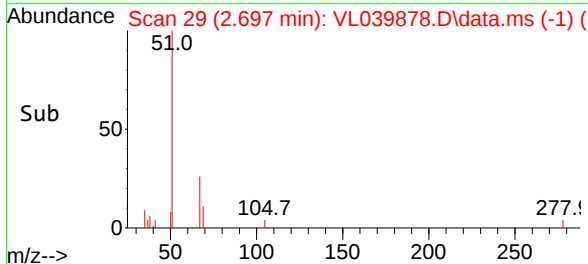
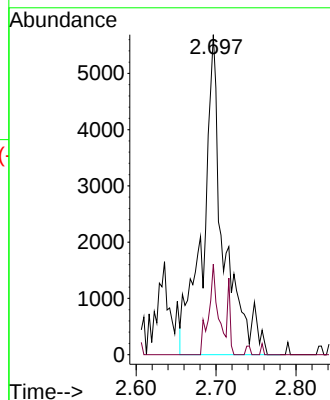
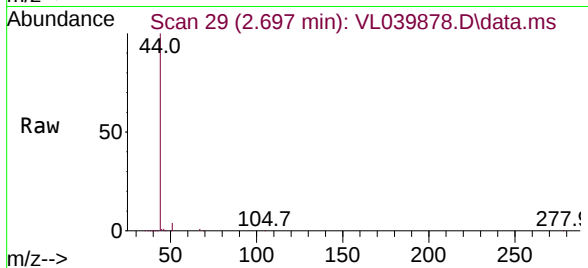
ClientSampleId :

Tgt Ion: 51 Resp: 10202

Ion Ratio Lower Upper

51 100

67 16.2 13.2 19.8



#9

Propene

Concen: 0.227 ppbv

RT: 2.726 min Scan# 38

Delta R.T. 0.019 min

Lab File: VL039878.D

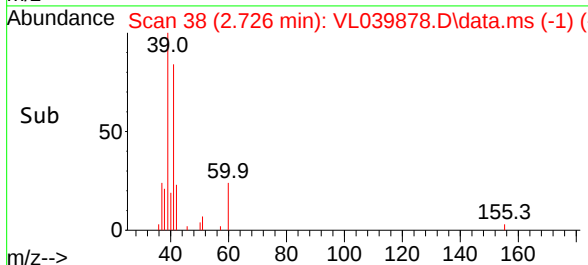
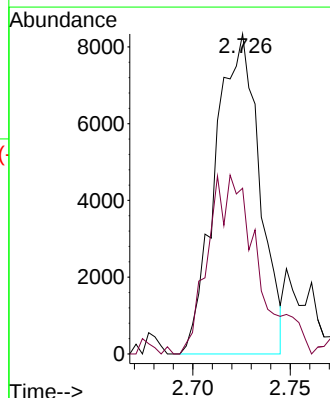
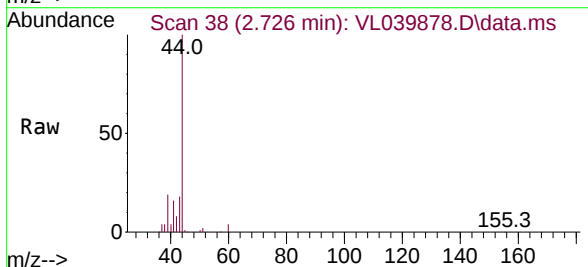
Acq: 11 Nov 2022 00:30

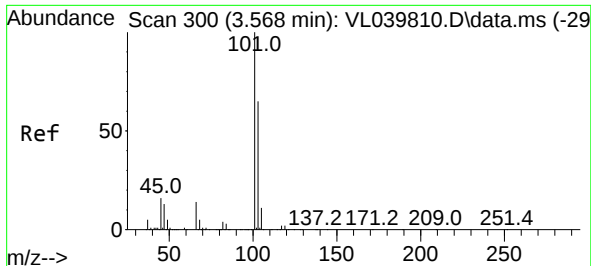
Tgt Ion: 41 Resp: 13174

Ion Ratio Lower Upper

41 100

42 67.7 56.3 84.5

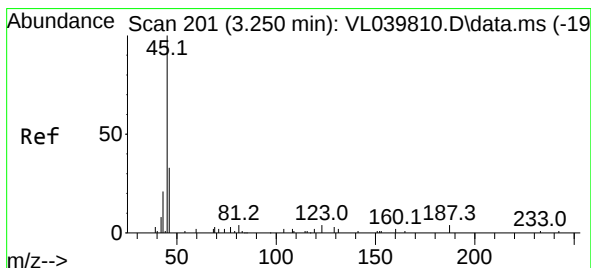
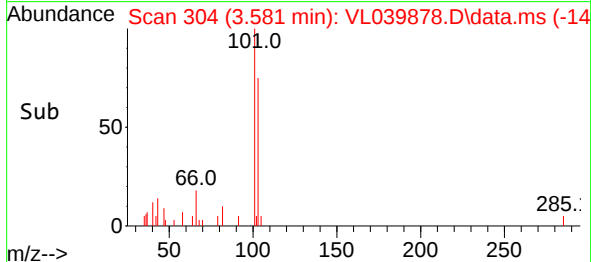
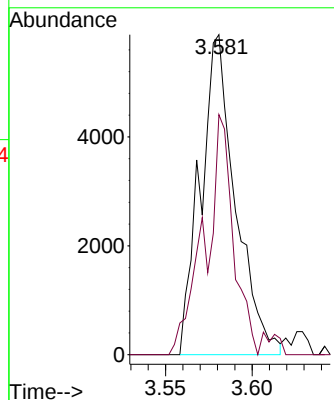
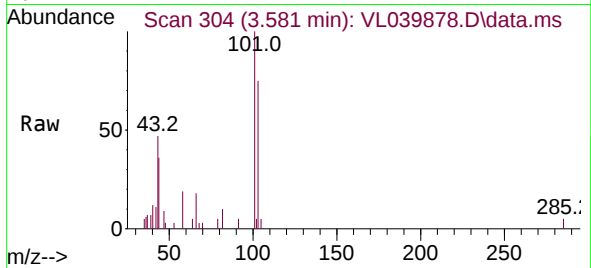




#11
 Trichlorofluoromethane
 Concen: 0.064 ppbv
 RT: 3.581 min Scan# 300
 Delta R.T. 0.013 min
 Lab File: VL039878.D
 Acq: 11 Nov 2022 00:30

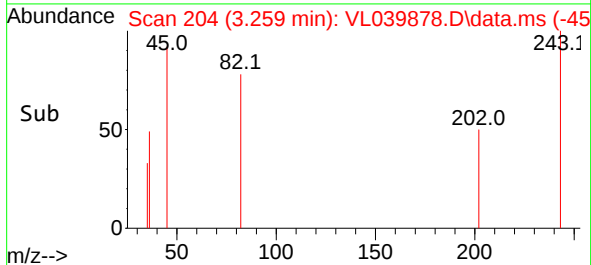
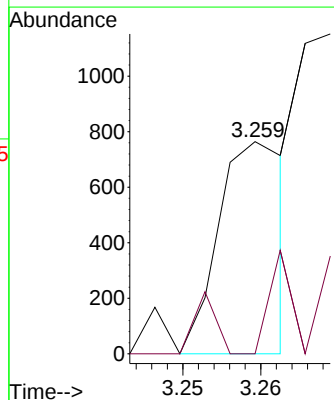
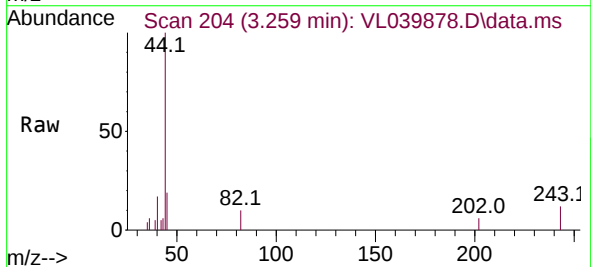
Instrument :
 MSVOA_L
 ClientSampleId :

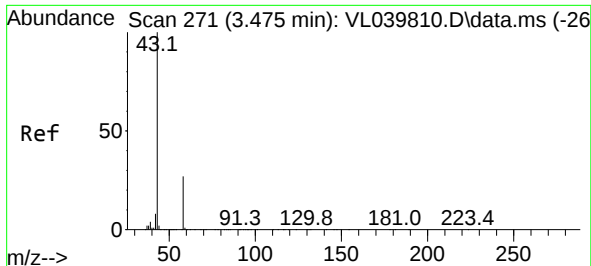
Tgt Ion:101 Resp: 8267
 Ion Ratio Lower Upper
 101 100
 103 69.9 52.2 78.2



#13
 Ethanol
 Concen: 0.111 ppbv
 RT: 3.259 min Scan# 204
 Delta R.T. 0.010 min
 Lab File: VL039878.D
 Acq: 11 Nov 2022 00:30

Tgt Ion: 45 Resp: 457
 Ion Ratio Lower Upper
 45 100
 46 0.0 16.5 65.9#

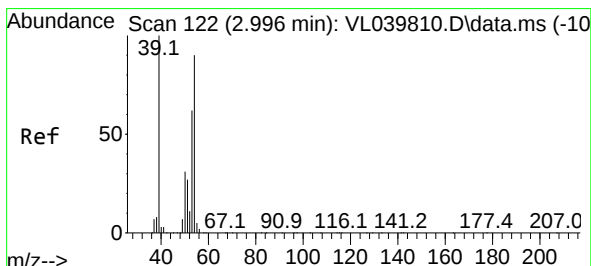
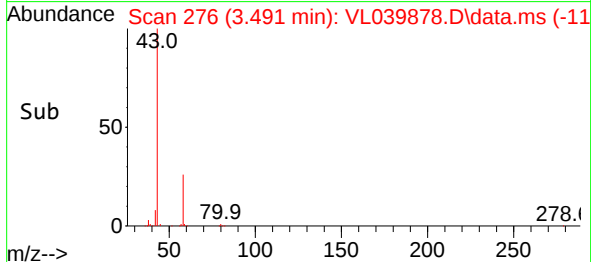
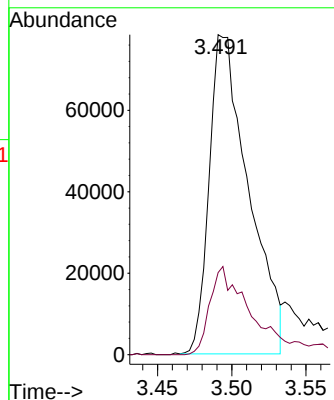
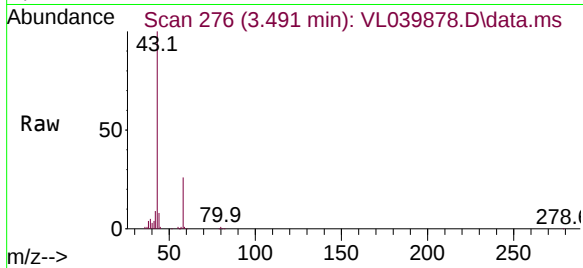




#15
Acetone
Concen: 1.273 ppbv
RT: 3.491 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL039878.D
Acq: 11 Nov 2022 00:30

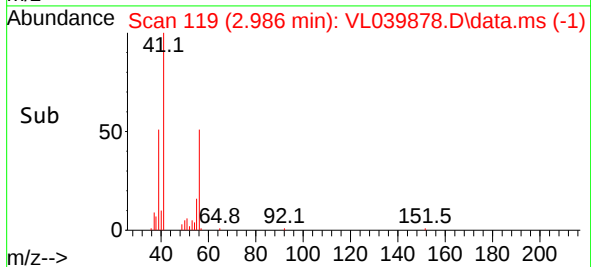
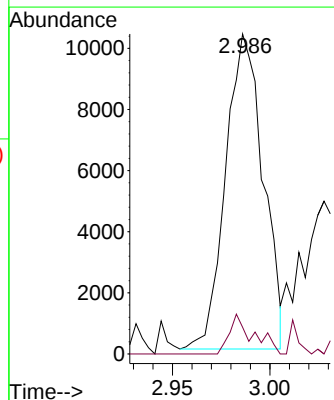
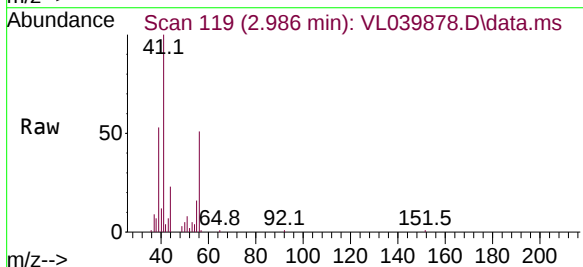
Instrument :
MSVOA_L
ClientSampleId :

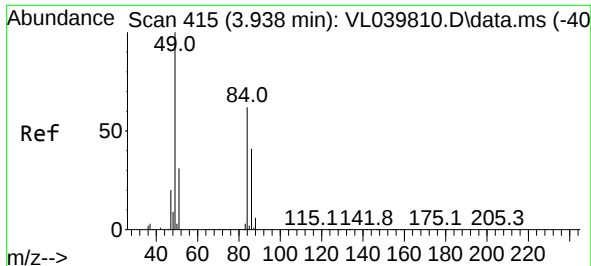
Tgt Ion: 43 Resp: 144697
Ion Ratio Lower Upper
43 100
58 32.4 23.2 34.8



#16
1,3-Butadiene
Concen: 0.261 ppbv
RT: 2.986 min Scan# 119
Delta R.T. -0.010 min
Lab File: VL039878.D
Acq: 11 Nov 2022 00:30

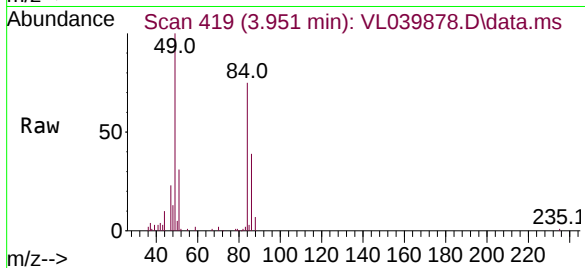
Tgt Ion: 39 Resp: 13779
Ion Ratio Lower Upper
39 100
54 8.0 71.0 106.4#



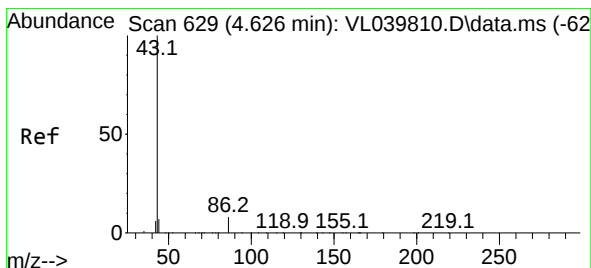
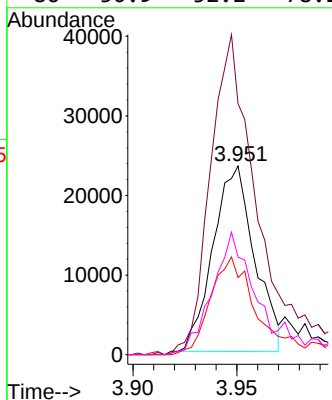
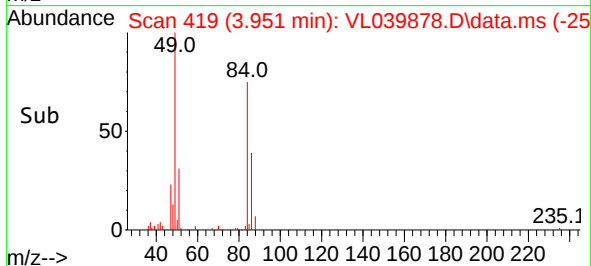


#20
Methylene Chloride
Concen: 0.799 ppbv
RT: 3.951 min Scan# 415
Delta R.T. 0.013 min
Lab File: VL039878.D
Acq: 11 Nov 2022 00:30

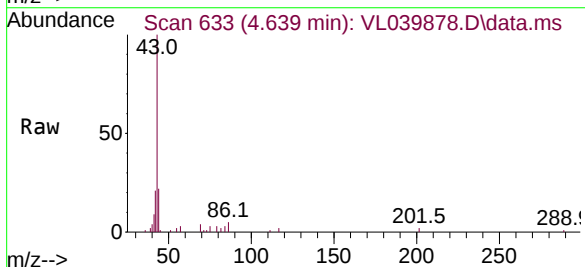
Instrument :
MSVOA_L
ClientSampleId :



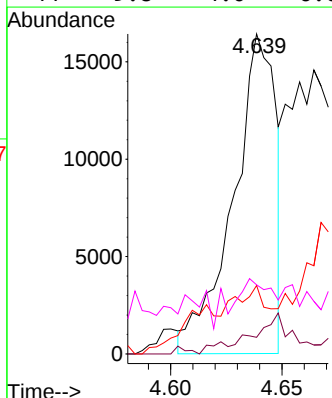
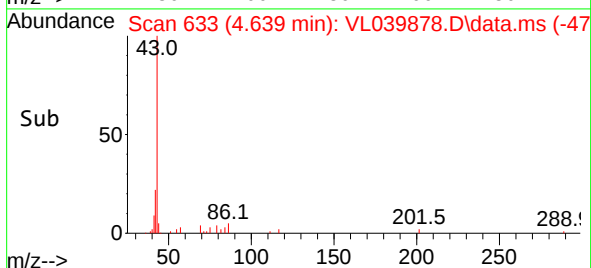
Tgt Ion: 84 Resp: 32473
Ion Ratio Lower Upper
84 100
49 128.5 128.6 192.8#
51 40.5 40.2 60.4
86 50.9 52.2 78.2#

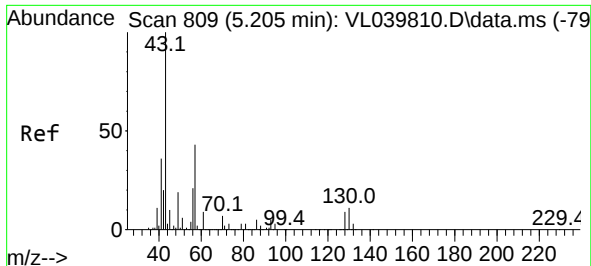


#23
Vinyl Acetate
Concen: 0.481 ppbv
RT: 4.639 min Scan# 633
Delta R.T. 0.013 min
Lab File: VL039878.D
Acq: 11 Nov 2022 00:30



Tgt Ion: 43 Resp: 21804
Ion Ratio Lower Upper
43 100
86 3.0 5.0 7.4#
42 16.9 6.8 10.2#
44 9.8 4.0 6.0#

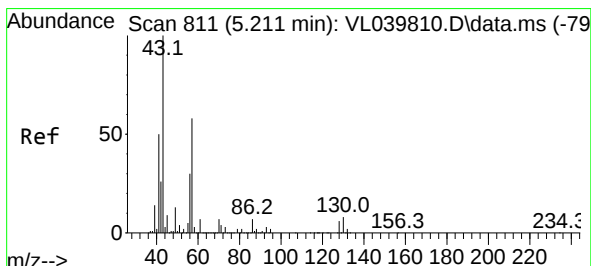
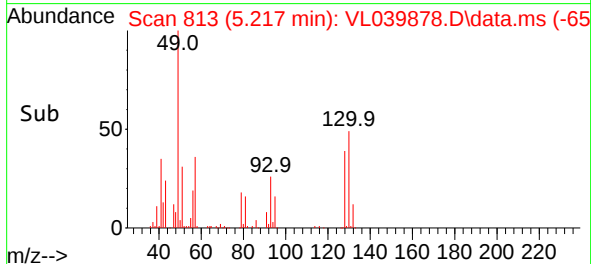
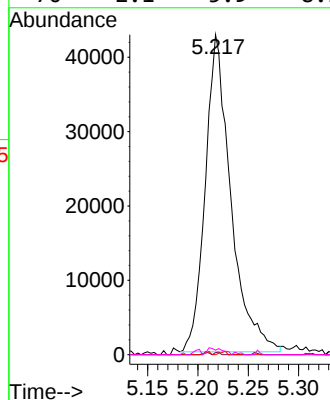
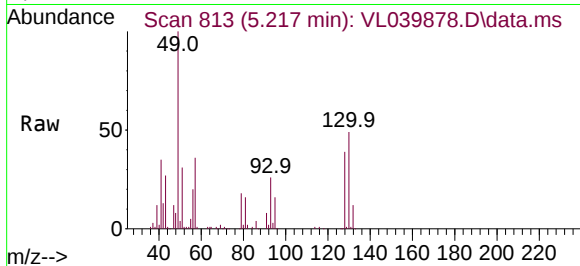




#25
Ethyl Acetate
Concen: 0.323 ppbv
RT: 5.217 min Scan# 813
Delta R.T. 0.013 min
Lab File: VL039878.D
Acq: 11 Nov 2022 00:30

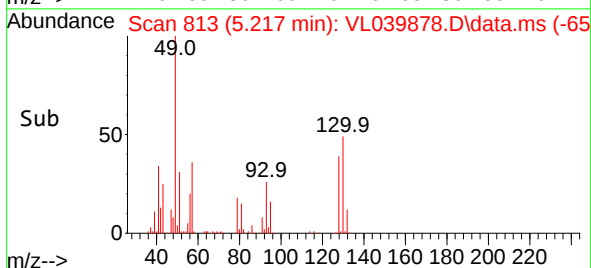
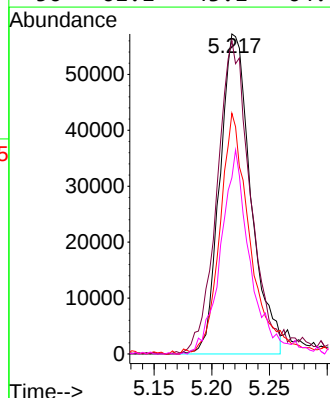
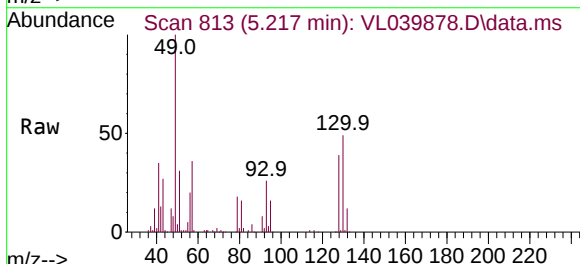
Instrument :
MSVOA_L
ClientSampleId :

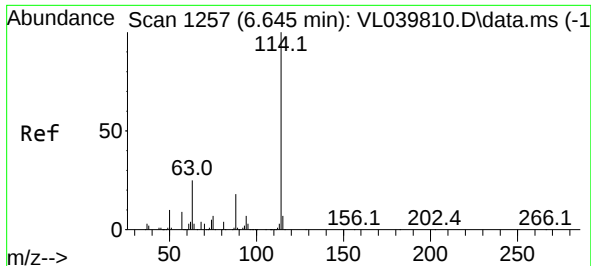
Tgt Ion: 43	Resp: 75576
Ion Ratio	Lower Upper
43 100	
45 0.2	8.2 12.2#
61 0.4	8.1 12.1#
70 2.1	5.9 8.9#



#26
Hexane
Concen: 1.023 ppbv
RT: 5.217 min Scan# 813
Delta R.T. 0.006 min
Lab File: VL039878.D
Acq: 11 Nov 2022 00:30

Tgt Ion: 57	Resp: 106800
Ion Ratio	Lower Upper
57 100	
41 110.9	73.7 110.5#
43 73.6	189.8 284.8#
56 61.1	43.1 64.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.651 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL039878.D

Acq: 11 Nov 2022 00:30

Instrument :

MSVOA_L

ClientSampleId :

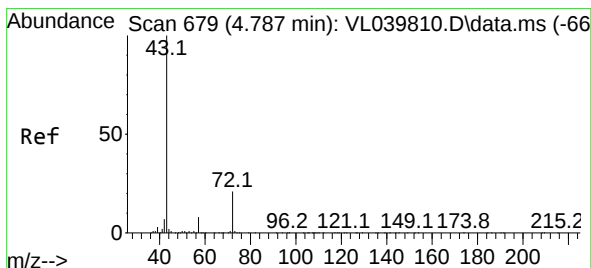
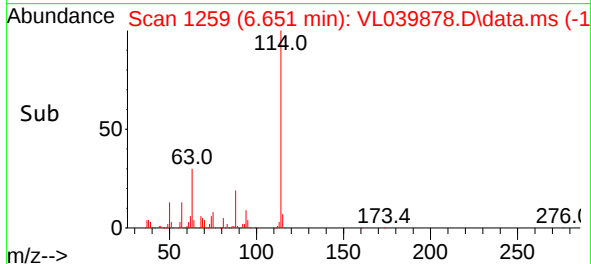
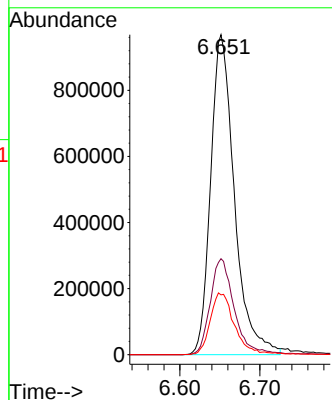
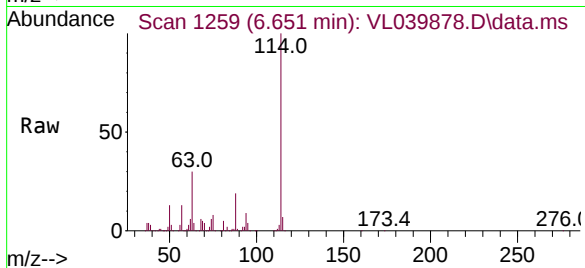
Tgt Ion:114 Resp: 1996363

Ion Ratio Lower Upper

114 100

63 30.8 19.8 29.6#

88 20.0 14.4 21.6



#34

2-Butanone

Concen: 0.130 ppbv

RT: 4.815 min Scan# 688

Delta R.T. 0.029 min

Lab File: VL039878.D

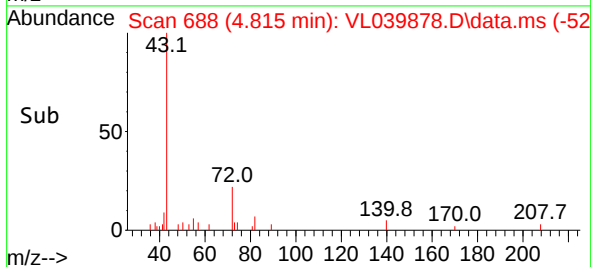
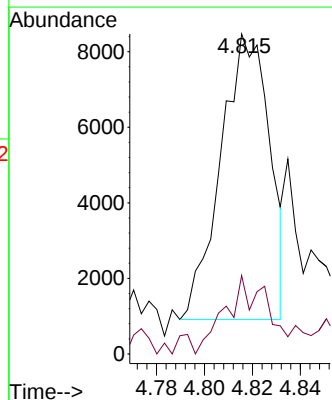
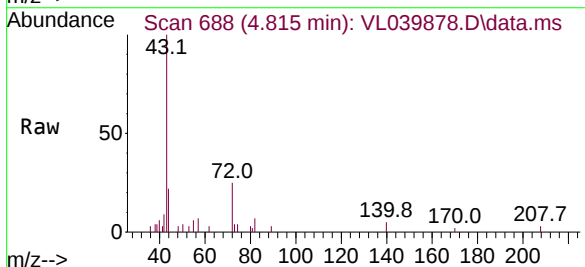
Acq: 11 Nov 2022 00:30

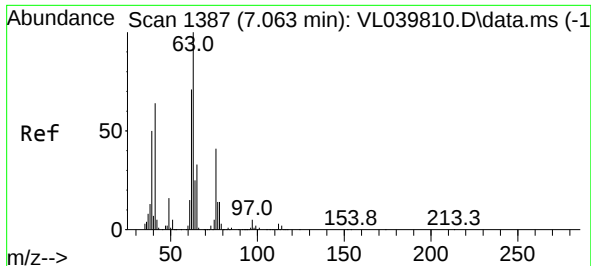
Tgt Ion: 43 Resp: 10686

Ion Ratio Lower Upper

43 100

72 27.5 17.5 26.3#





#39

1,2-Dichloropropane

Concen: 9.206 ppbv

RT: 6.651 min Scan# 11

Delta R.T. -0.412 min

Lab File: VL039878.D

Acq: 11 Nov 2022 00:30

Instrument :

MSVOA_L

ClientSampleId :

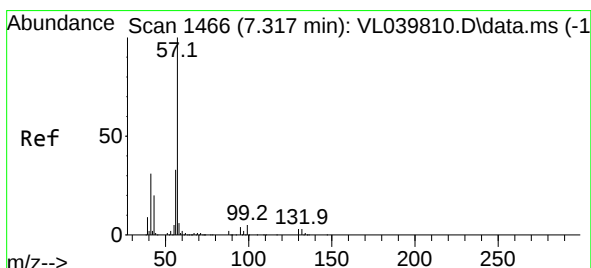
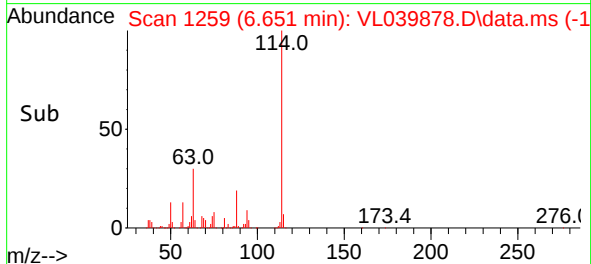
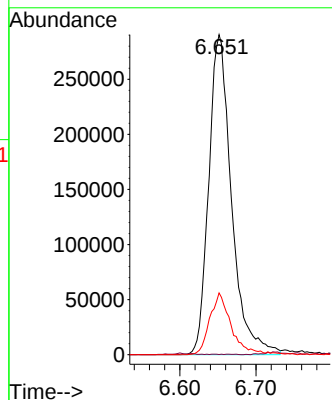
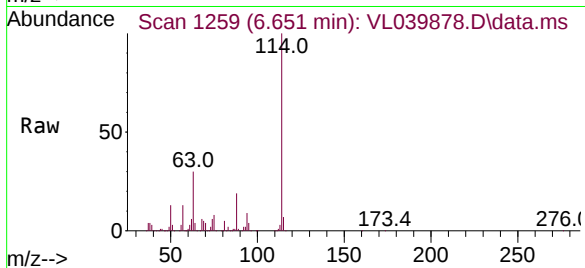
Tgt Ion: 63 Resp: 604004

Ion Ratio Lower Upper

63 100

41 0.0 51.0 76.4#

62 19.3 56.6 85.0#



#44

2,2,4-Trimethylpentane

Concen: 0.041 ppbv

RT: 7.320 min Scan# 1467

Delta R.T. 0.003 min

Lab File: VL039878.D

Acq: 11 Nov 2022 00:30

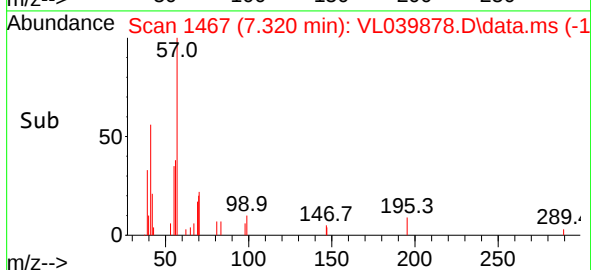
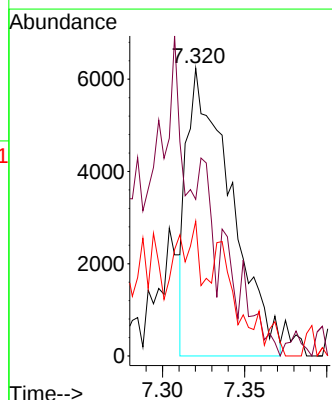
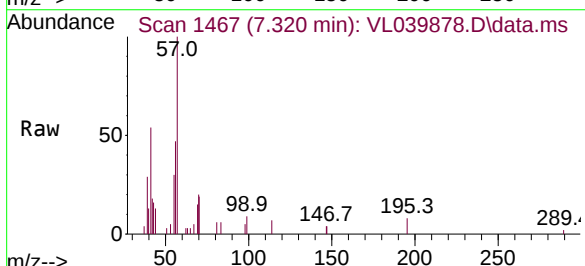
Tgt Ion: 57 Resp: 11601

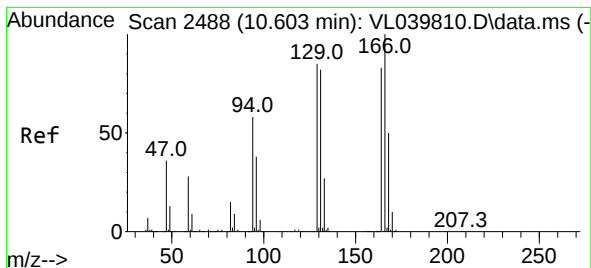
Ion Ratio Lower Upper

57 100

41 0.0 24.6 36.8#

56 0.0 25.4 38.0#





#52

Tetrachloroethene

Concen: 2.262 ppbv

RT: 10.606 min Scan# 2488

Delta R.T. 0.003 min

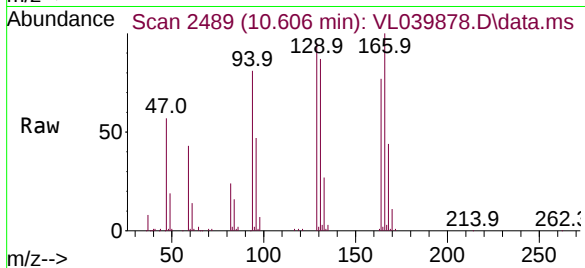
Lab File: VL039878.D

Acq: 11 Nov 2022 00:30

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:164 Resp: 142744

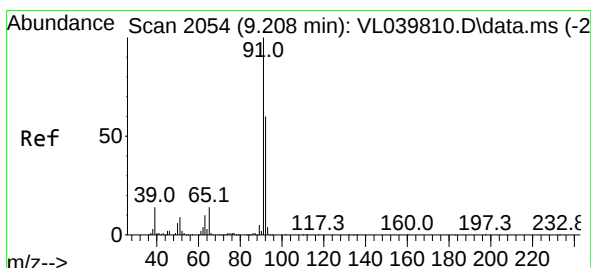
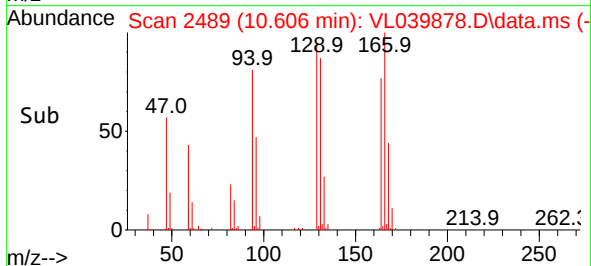
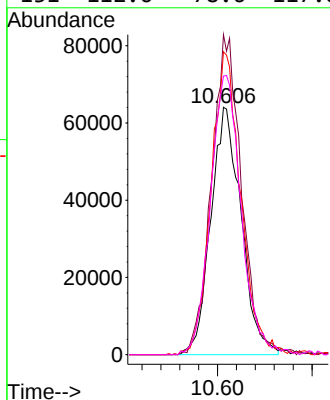
Ion Ratio Lower Upper

164 100

166 129.4 96.0 144.0

129 122.5 81.4 122.2#

131 112.6 78.6 117.8



#53

Toluene

Concen: 0.200 ppbv

RT: 9.217 min Scan# 2057

Delta R.T. 0.010 min

Lab File: VL039878.D

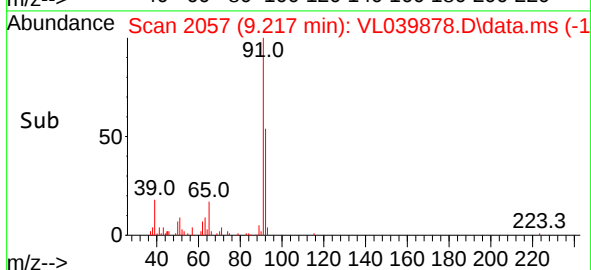
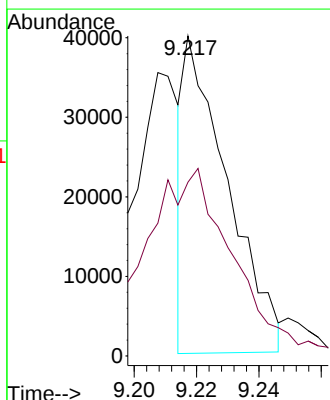
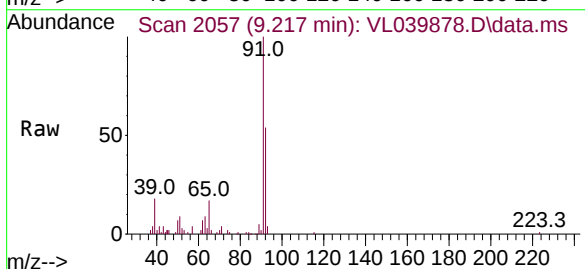
Acq: 11 Nov 2022 00:30

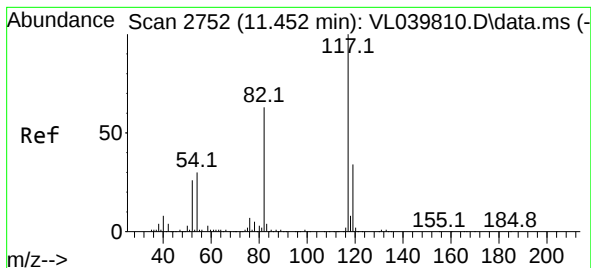
Tgt Ion: 91 Resp: 38651

Ion Ratio Lower Upper

91 100

92 126.9 49.6 74.4#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.458 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL039878.D

Acq: 11 Nov 2022 00:30

Instrument :

MSVOA_L

ClientSampleId :

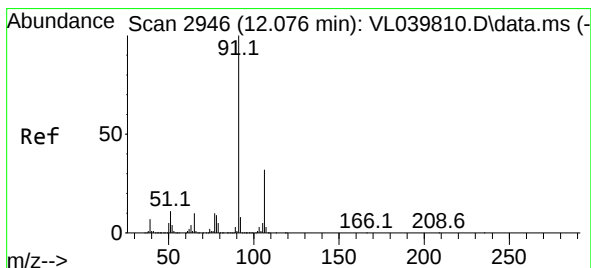
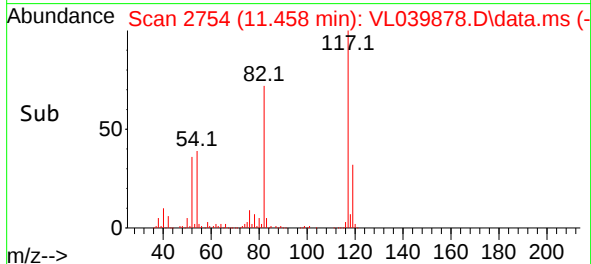
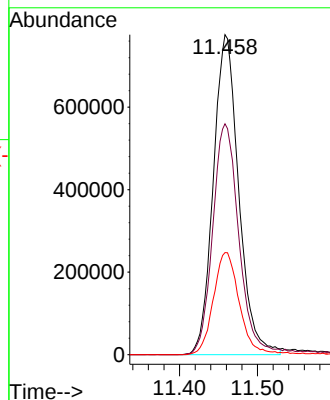
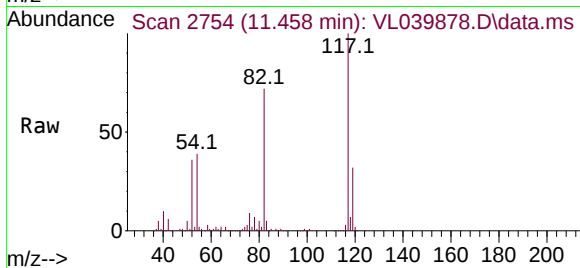
Tgt Ion:117 Resp: 1759716

Ion Ratio Lower Upper

117 100

82 76.7 51.0 76.6#

119 33.4 24.7 37.1



#58

Ethyl Benzene

Concen: 0.080 ppbv

RT: 12.085 min Scan# 2949

Delta R.T. 0.010 min

Lab File: VL039878.D

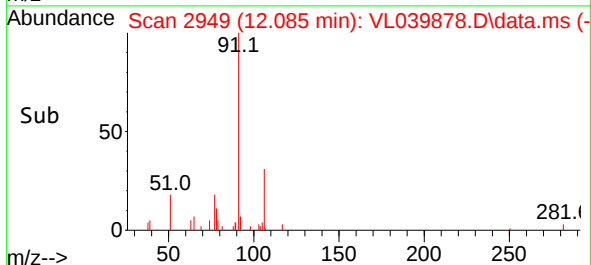
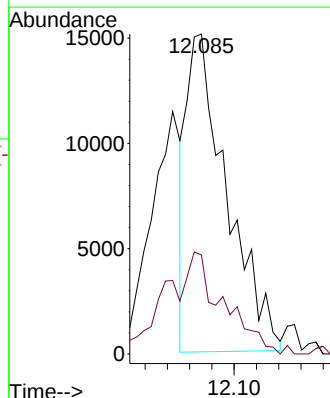
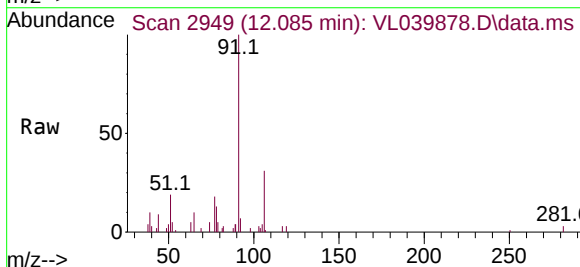
Acq: 11 Nov 2022 00:30

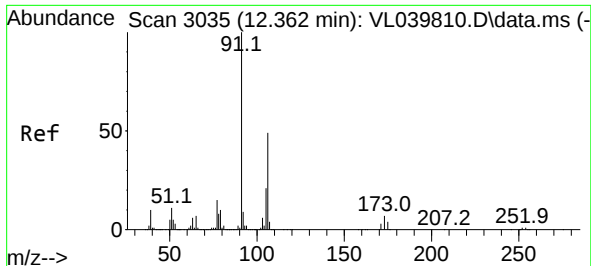
Tgt Ion: 91 Resp: 18998

Ion Ratio Lower Upper

91 100

106 33.8 25.9 38.9





#59

m/p-Xylene

Concen: 0.160 ppbv

RT: 12.362 min Scan# 3035

Delta R.T. 0.000 min

Lab File: VL039878.D

Acq: 11 Nov 2022 00:30

Instrument :

MSVOA_L

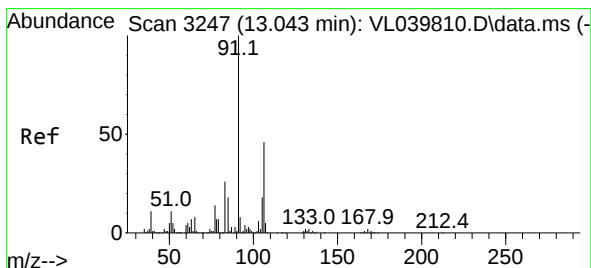
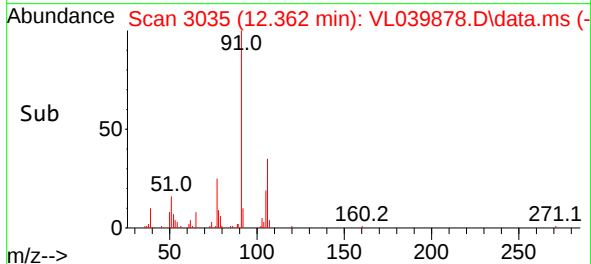
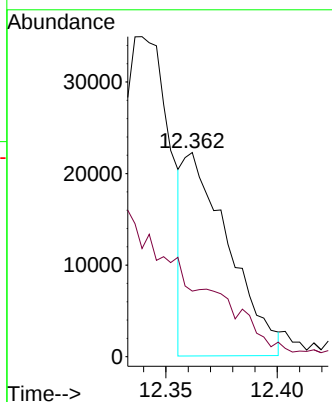
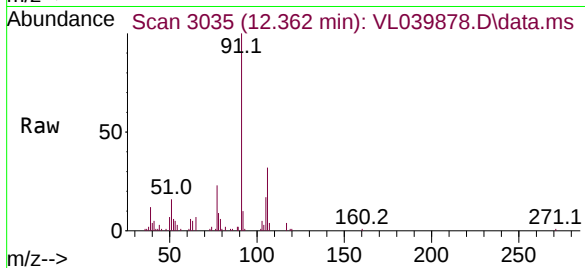
ClientSampleId :

Tgt Ion: 91 Resp: 31773

Ion Ratio Lower Upper

91 100

106 0.0 37.6 56.4#



#60

o-Xylene

Concen: 0.168 ppbv

RT: 13.047 min Scan# 3248

Delta R.T. 0.003 min

Lab File: VL039878.D

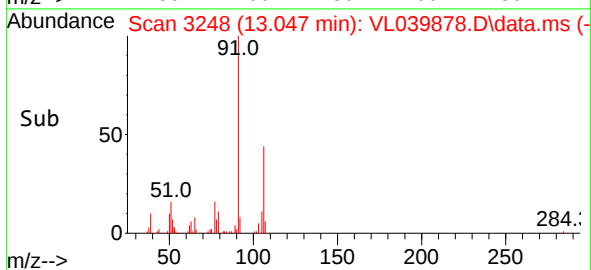
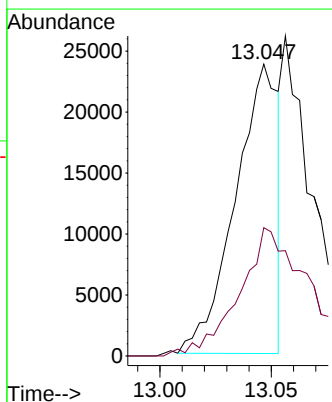
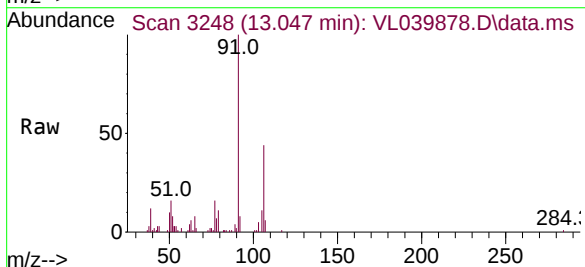
Acq: 11 Nov 2022 00:30

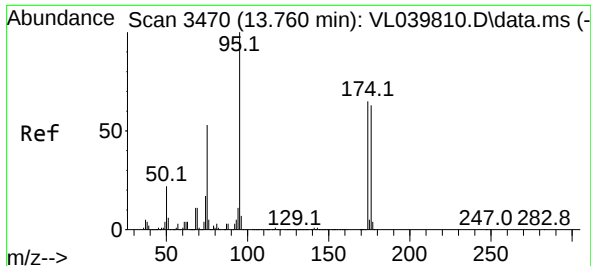
Tgt Ion: 91 Resp: 31699

Ion Ratio Lower Upper

91 100

106 71.8 23.6 70.8#

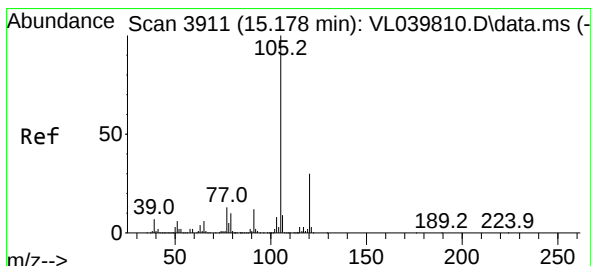
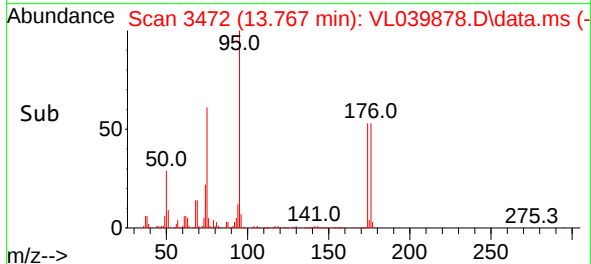
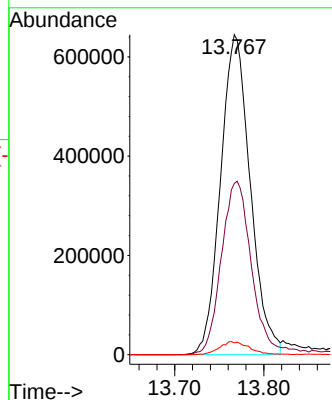
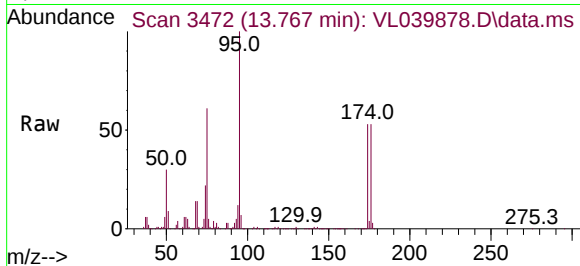




#68
1-Bromo-4-Fluorobenzene
Concen: 11.336 ppbv
RT: 13.767 min Scan# 3470
Delta R.T. 0.006 min
Lab File: VL039878.D
Acq: 11 Nov 2022 00:30

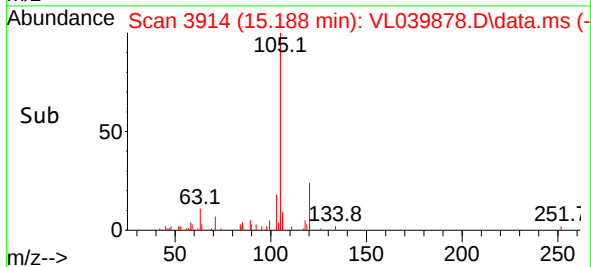
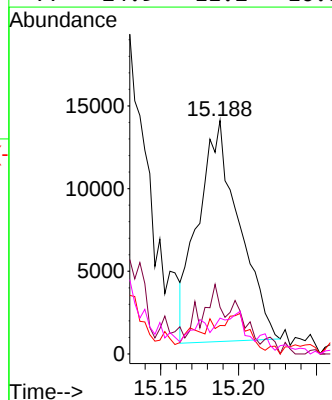
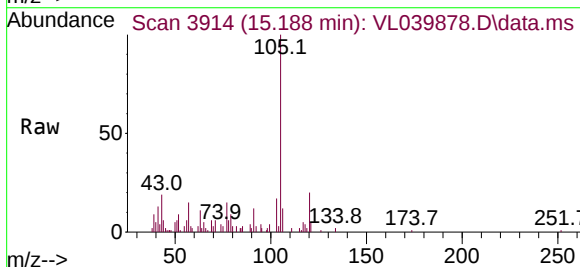
Instrument :
MSVOA_L
ClientSampleId :

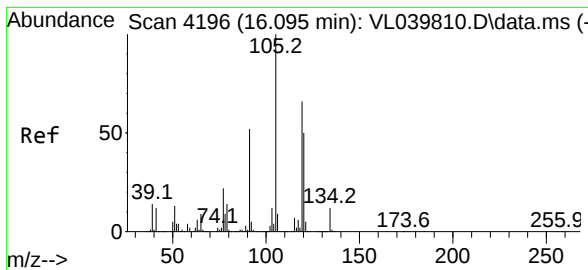
Tgt Ion: 95 Resp: 1493148
Ion Ratio Lower Upper
95 100
174 56.5 53.4 80.0
175 4.2 4.1 6.1



#72
4-Ethyltoluene
Concen: 0.115 ppbv
RT: 15.188 min Scan# 3914
Delta R.T. 0.010 min
Lab File: VL039878.D
Acq: 11 Nov 2022 00:30

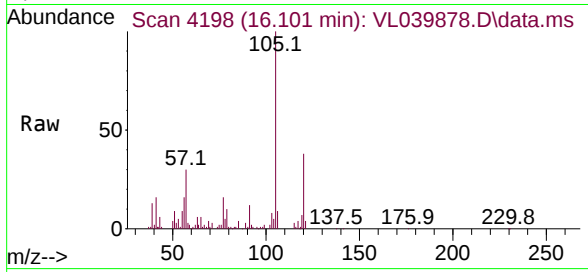
Tgt Ion: 105 Resp: 24290
Ion Ratio Lower Upper
105 100
120 32.3 26.0 39.0
91 21.3 10.5 15.7#
77 24.9 11.2 16.8#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.396 ppbv
 RT: 16.101 min Scan# 4198
 Delta R.T. 0.006 min
 Lab File: VL039878.D
 Acq: 11 Nov 2022 00:30

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion:	105	Resp:	79118
Ion	Ratio	Lower	Upper
105	100		
120	37.8	40.2	60.4#
91	11.6	42.6	64.0#
77	12.7	17.8	26.8#

