

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112222\
 Data File : VL039930.D
 Acq On : 23 Nov 2022 00:06
 Operator : SY/AP
 Sample : N5767-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Quant Time: Nov 23 04:53:25 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	939882	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.639	114	2610930	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.459	117	2355921	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	1910012	10.614	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 106.100%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.710	85	27412	0.204	ppbv	96
3) Chlorodifluoromethane	2.655	51	13297	0.103	ppbv #	91
4) Chloromethane	2.796	50	4828	0.058	ppbv	90
7) Chloroethane	3.173	64	860	0.034	ppbv #	77
9) Propene	2.678	41	22899	0.375	ppbv	92
10) Heptane	7.565	43	42327	0.287	ppbv	97
11) Trichlorofluoromethane	3.546	101	10639	0.065	ppbv	89
13) Ethanol	3.237	45	16410	3.518	ppbv	86
15) Acetone	3.459	43	207500	1.664	ppbv	96
17) tert-Butyl alcohol	3.886	59	19187	0.134	ppbv #	78
20) Methylene Chloride	3.915	84	47754	0.791	ppbv	92
23) Vinyl Acetate	4.610	43	57123	1.115	ppbv #	93
25) Ethyl Acetate	5.198	43	261180	1.141	ppbv #	77
26) Hexane	5.198	57	383549	3.836	ppbv #	34
27) Carbon Disulfide	4.102	76	4873	0.039	ppbv #	1
29) Chloroform	5.256	83	21509	0.162	ppbv	98
34) 2-Butanone	4.784	43	22768	0.182	ppbv #	55
36) Benzene	6.353	78	7036	0.032	ppbv	95
39) 1,2-Dichloropropane	6.636	63	654062	7.564	ppbv #	26
41) Tetrahydrofuran	5.800	42	2779	0.032	ppbv #	77
44) 2,2,4-Trimethylpentane	7.311	57	51470	0.139	ppbv #	1
53) Toluene	9.208	91	274762	1.087	ppbv	99
58) Ethyl Benzene	12.082	91	35676	0.112	ppbv	98
59) m/p-Xylene	12.336	91	288691	1.079	ppbv	98
60) o-Xylene	13.050	91	163451	0.641	ppbv	97
64) n-propylbenzene	14.912	120	4739	0.049	ppbv #	1
70) n-Butylbenzene	17.899	91	13815	0.038	ppbv #	1
72) 4-Ethyltoluene	15.185	105	70158	0.245	ppbv #	90
73) 1,3,5-Trimethylbenzene	15.346	105	57830	0.220	ppbv	98
74) 1,2,4-Trimethylbenzene	16.105	105	162645	0.585	ppbv #	73

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

Quant Time: Nov 23 04:53:25 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Nov 22 03:45:31 2022
Response via : Initial Calibration

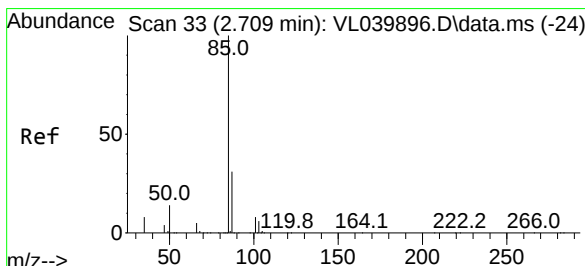
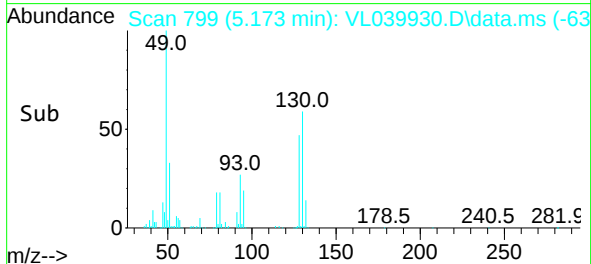
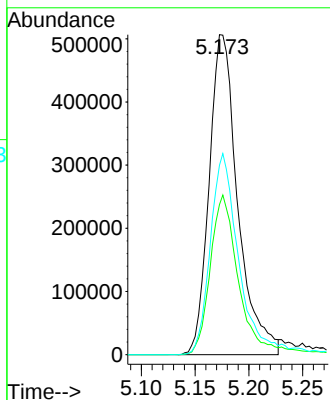
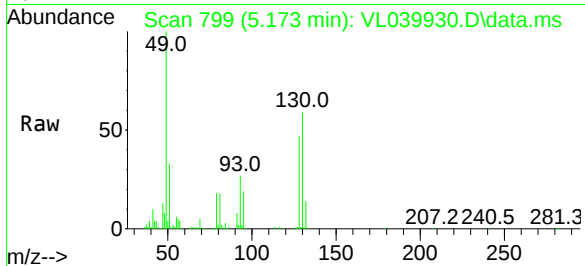




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.173 min Scan# 79
Delta R.T. 0.017 min
Lab File: VL039930.D
Acq: 23 Nov 2022 00:06

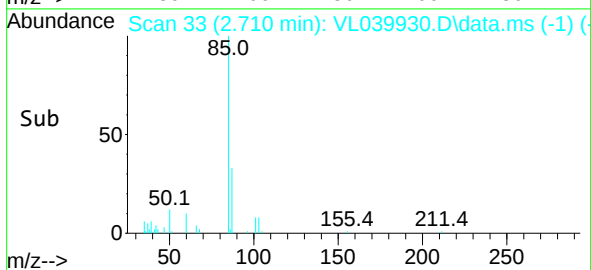
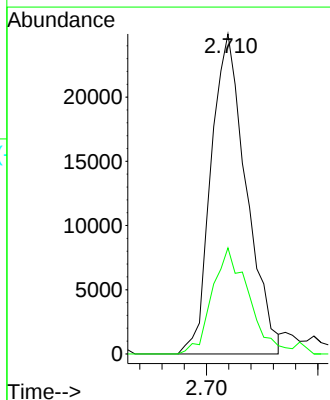
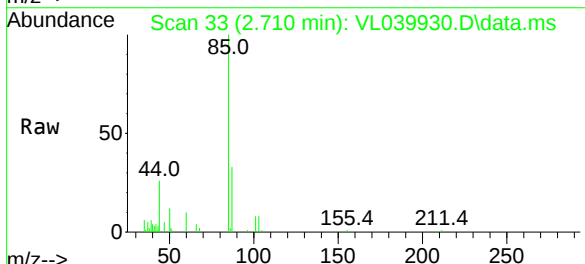
Instrument :
MSVOA_L
ClientSampleId :
SV1

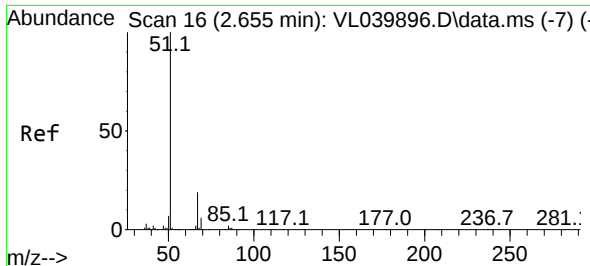
Tgt Ion: 49 Resp: 939882
Ion Ratio Lower Upper
49 100
128 51.1 22.1 66.3
130 64.7 27.7 83.1



#2
Dichlorodifluoromethane
Concen: 0.204 ppbv
RT: 2.710 min Scan# 33
Delta R.T. 0.013 min
Lab File: VL039930.D
Acq: 23 Nov 2022 00:06

Tgt Ion: 85 Resp: 27412
Ion Ratio Lower Upper
85 100
87 33.2 25.0 37.4

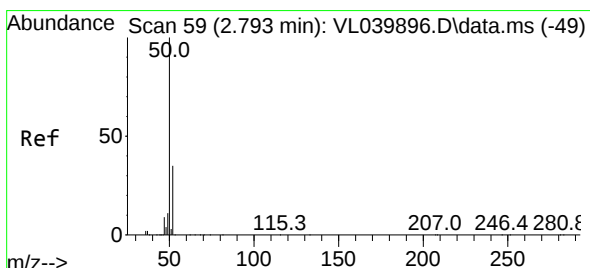
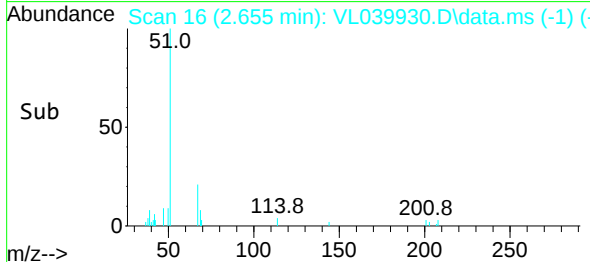
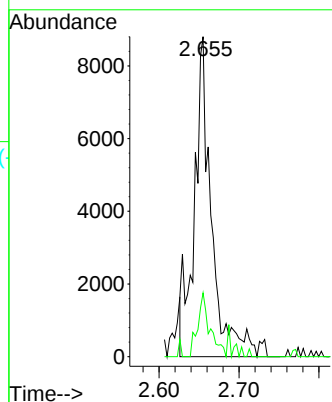
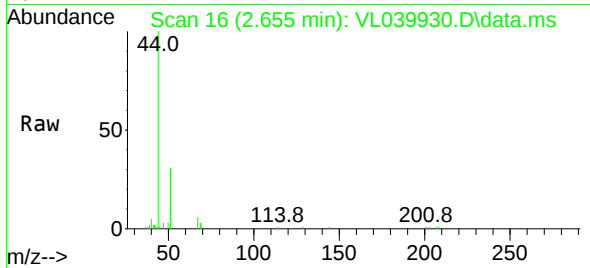




#3
Chlorodifluoromethane
Concen: 0.103 ppbv
RT: 2.655 min Scan# 11
Delta R.T. 0.013 min
Lab File: VL039930.D
Acq: 23 Nov 2022 00:06

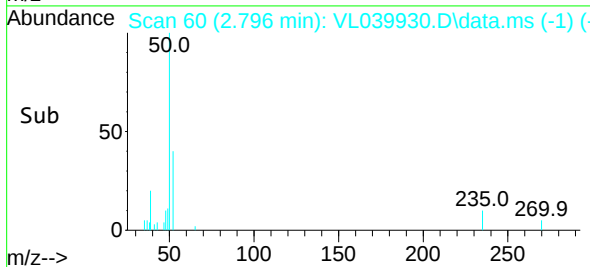
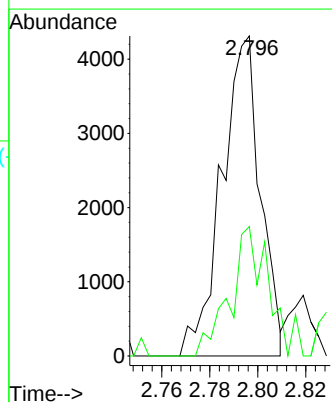
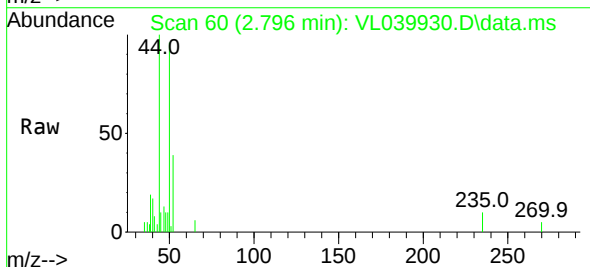
Instrument :
MSVOA_L
ClientSampleId :
SV1

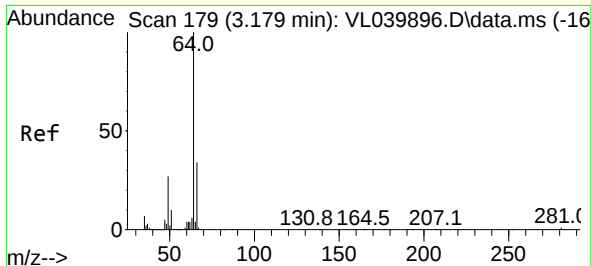
Tgt Ion: 51 Resp: 13297
Ion Ratio Lower Upper
51 100
67 14.0 14.2 21.4#



#4
Chloromethane
Concen: 0.058 ppbv
RT: 2.796 min Scan# 60
Delta R.T. 0.016 min
Lab File: VL039930.D
Acq: 23 Nov 2022 00:06

Tgt Ion: 50 Resp: 4828
Ion Ratio Lower Upper
50 100
52 40.5 27.8 41.8

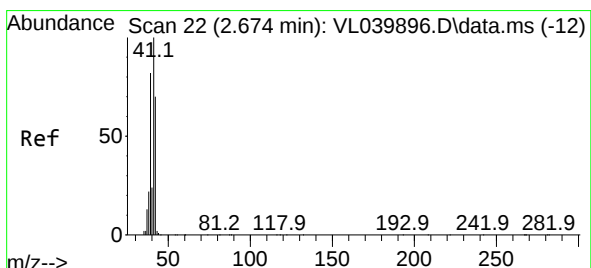
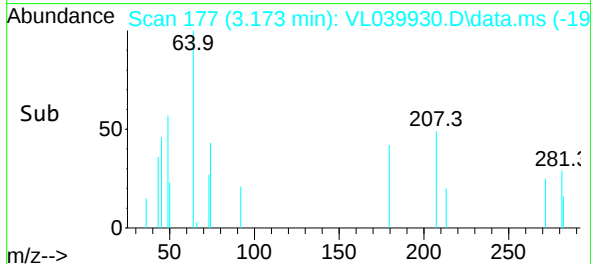
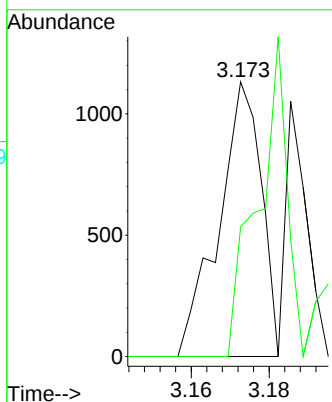
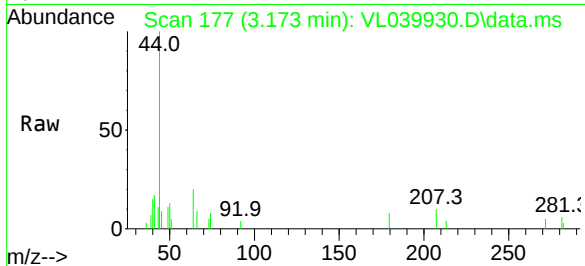




#7
Chloroethane
Concen: 0.034 ppbv
RT: 3.173 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL039930.D
Acq: 23 Nov 2022 00:06

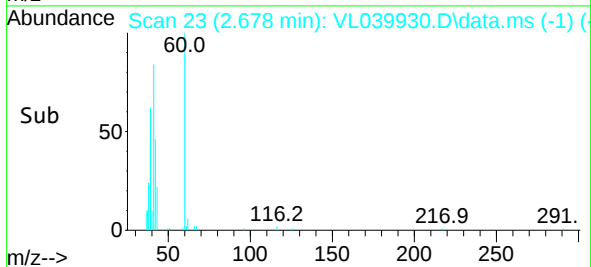
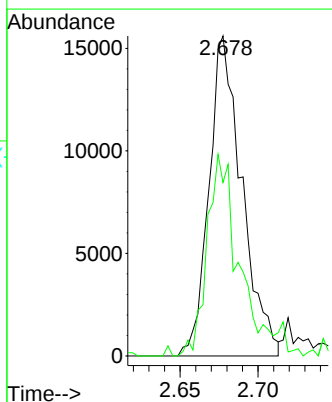
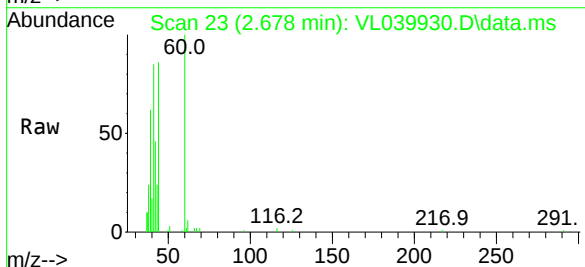
Instrument :
MSVOA_L
ClientSampleId :
SV1

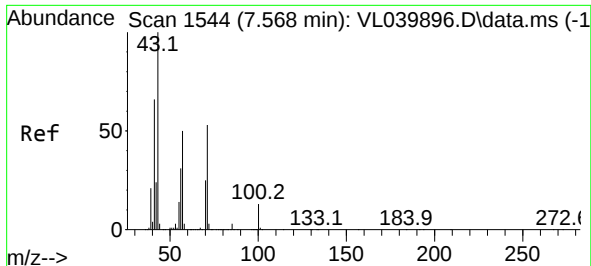
Tgt Ion: 64 Resp: 860
Ion Ratio Lower Upper
64 100
66 47.2 27.3 40.9#



#9
Propene
Concen: 0.375 ppbv
RT: 2.678 min Scan# 23
Delta R.T. 0.016 min
Lab File: VL039930.D
Acq: 23 Nov 2022 00:06

Tgt Ion: 41 Resp: 22899
Ion Ratio Lower Upper
41 100
42 63.5 55.8 83.6

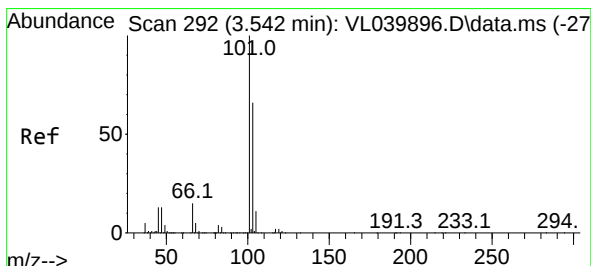
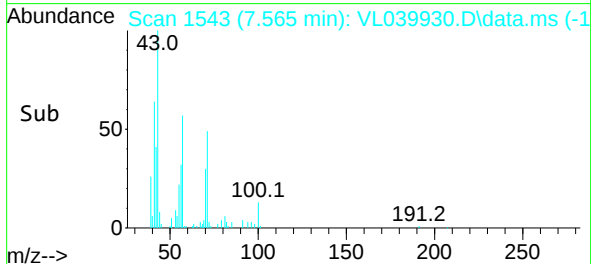
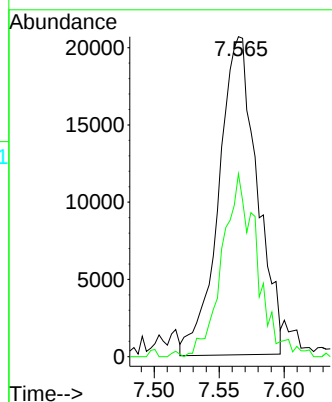
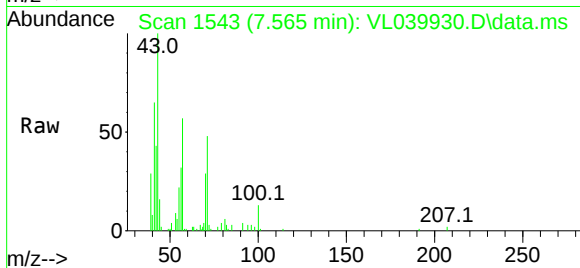




#10
Heptane
Concen: 0.287 ppbv
RT: 7.565 min Scan# 11
Delta R.T. 0.019 min
Lab File: VL039930.D
Acq: 23 Nov 2022 00:06

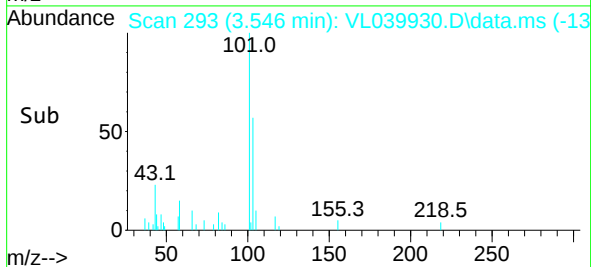
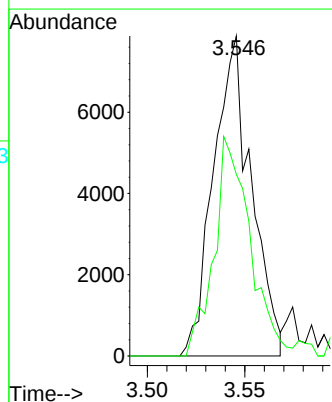
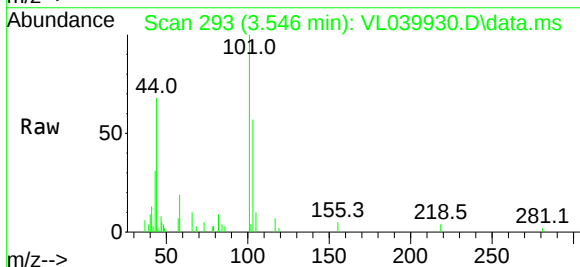
Instrument :
MSVOA_L
ClientSampleId :
SV1

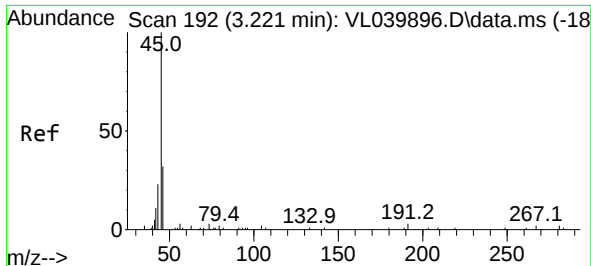
Tgt Ion: 43 Resp: 42327
Ion Ratio Lower Upper
43 100
57 52.7 40.7 61.1



#11
Trichlorofluoromethane
Concen: 0.065 ppbv
RT: 3.546 min Scan# 293
Delta R.T. 0.016 min
Lab File: VL039930.D
Acq: 23 Nov 2022 00:06

Tgt Ion: 101 Resp: 10639
Ion Ratio Lower Upper
101 100
103 56.8 52.6 78.8

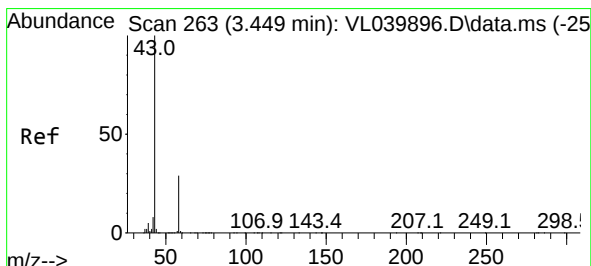
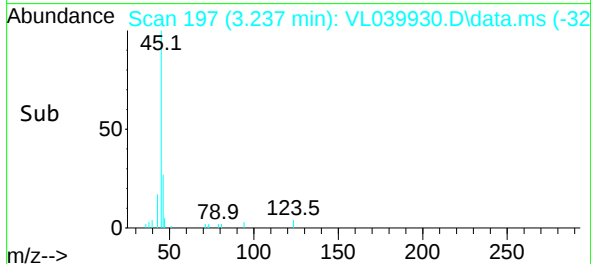
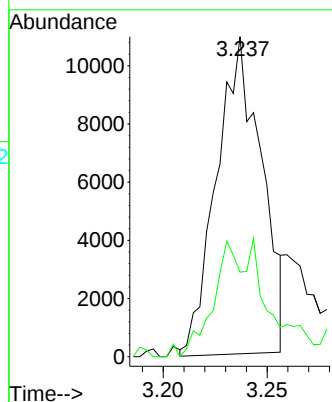
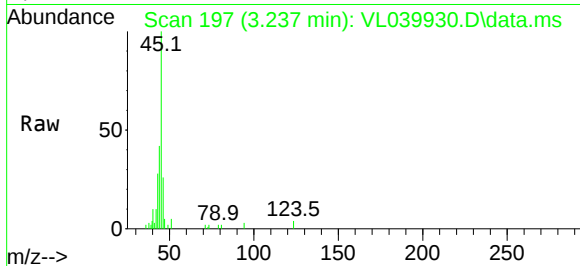




#13
Ethanol
Concen: 3.518 ppbv
RT: 3.237 min Scan# 192
Delta R.T. 0.029 min
Lab File: VL039930.D
Acq: 23 Nov 2022 00:06

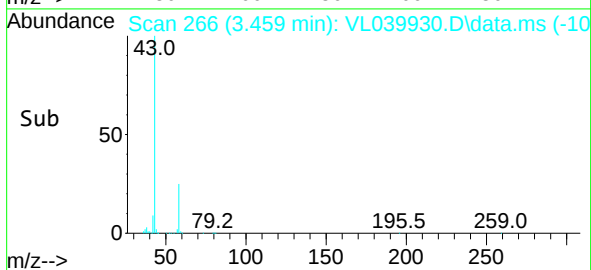
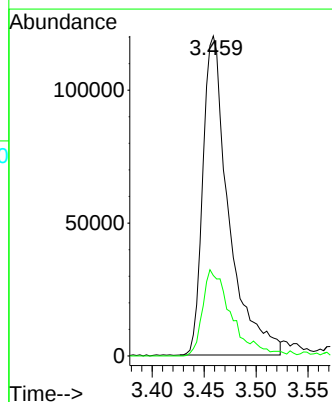
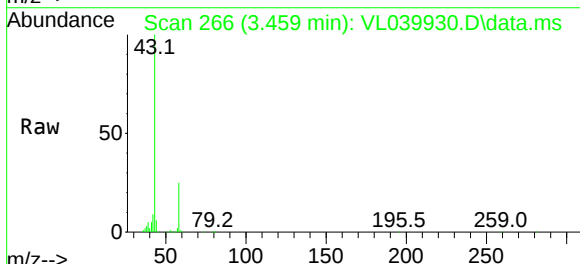
Instrument :
MSVOA_L
ClientSampleId :
SV1

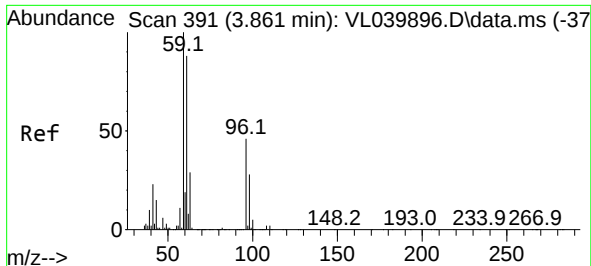
Tgt Ion: 45 Resp: 16410
Ion Ratio Lower Upper
45 100
46 44.5 14.6 58.2



#15
Acetone
Concen: 1.664 ppbv
RT: 3.459 min Scan# 266
Delta R.T. 0.026 min
Lab File: VL039930.D
Acq: 23 Nov 2022 00:06

Tgt Ion: 43 Resp: 207500
Ion Ratio Lower Upper
43 100
58 30.6 22.9 34.3

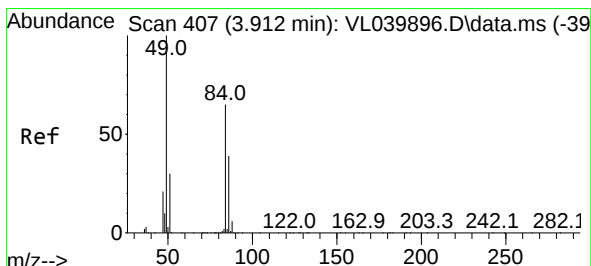
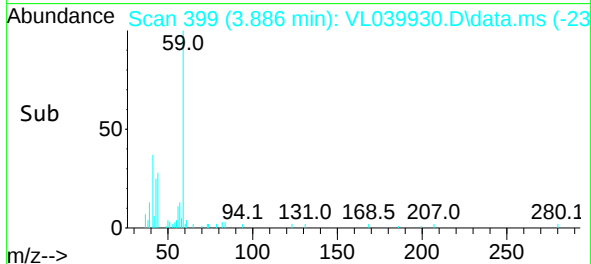
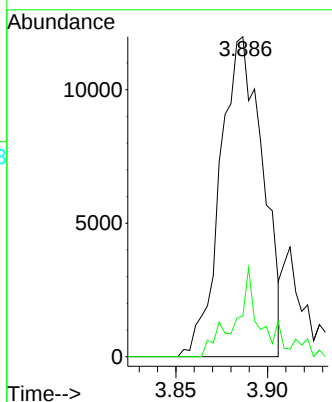
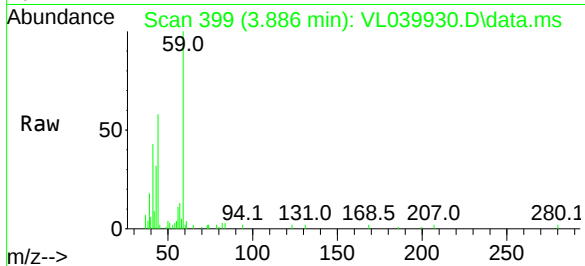




#17
tert-Butyl alcohol
Concen: 0.134 ppbv
RT: 3.886 min Scan# 391
Delta R.T. 0.042 min
Lab File: VL039930.D
Acq: 23 Nov 2022 00:06

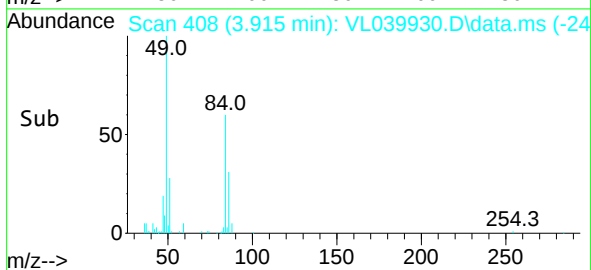
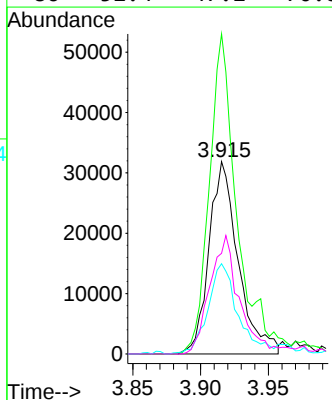
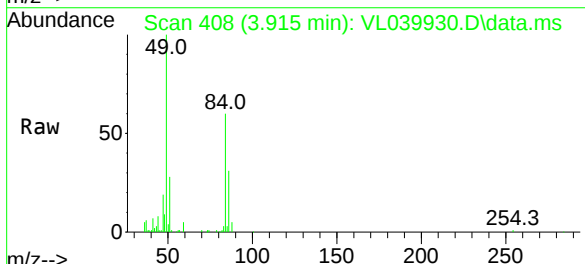
Instrument :
MSVOA_L
ClientSampleId :
SV1

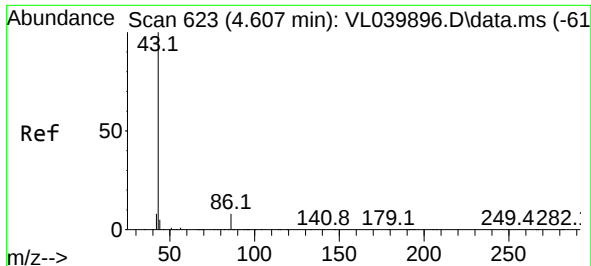
Tgt Ion: 59 Resp: 19187
Ion Ratio Lower Upper
59 100
57 18.5 8.3 12.5#



#20
Methylene Chloride
Concen: 0.791 ppbv
RT: 3.915 min Scan# 408
Delta R.T. 0.016 min
Lab File: VL039930.D
Acq: 23 Nov 2022 00:06

Tgt Ion: 84 Resp: 47754
Ion Ratio Lower Upper
84 100
49 165.8 122.2 183.4
51 46.3 36.3 54.5
86 52.4 47.2 70.8



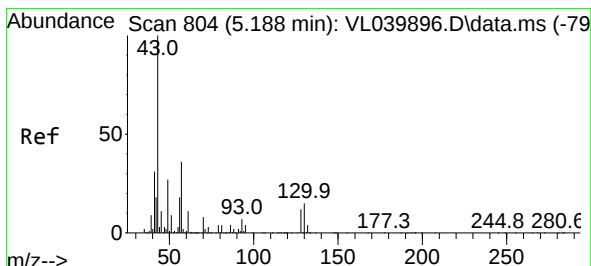
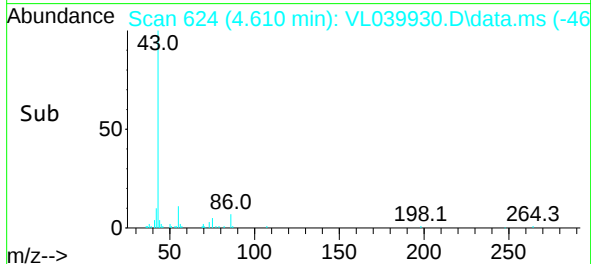
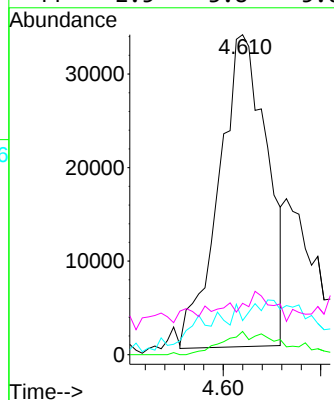
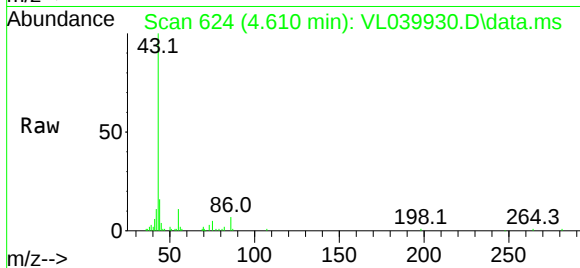


#23
 Vinyl Acetate
 Concen: 1.115 ppbv
 RT: 4.610 min Scan# 61
 Delta R.T. 0.019 min
 Lab File: VL039930.D
 Acq: 23 Nov 2022 00:06

Instrument :
 MSVOA_1
 ClientSampleId :
 SV1

Tgt Ion: 43 Resp: 57123

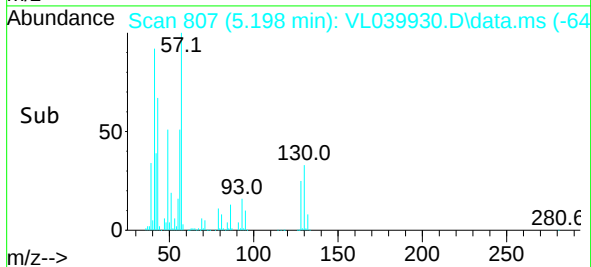
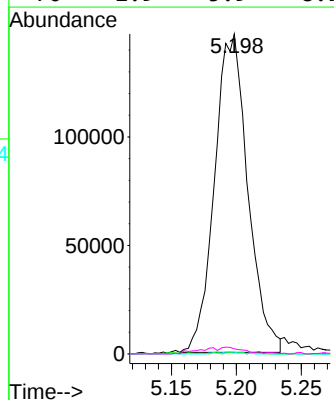
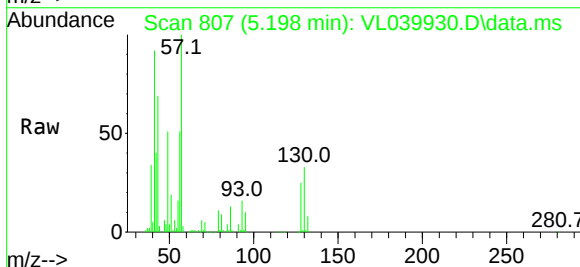
Ion	Ratio	Lower	Upper
43	100		
86	7.5	5.0	7.4#
42	6.5	7.6	11.4#
44	2.5	3.8	5.6#

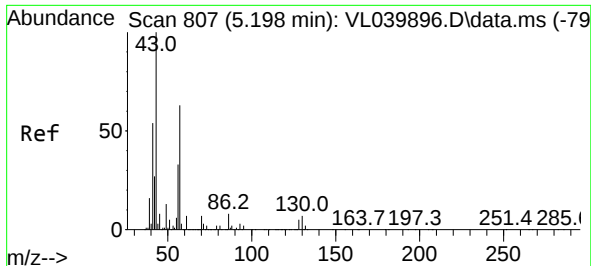


#25
 Ethyl Acetate
 Concen: 1.141 ppbv
 RT: 5.198 min Scan# 807
 Delta R.T. 0.029 min
 Lab File: VL039930.D
 Acq: 23 Nov 2022 00:06

Tgt Ion: 43 Resp: 261180

Ion	Ratio	Lower	Upper
43	100		
45	0.4	8.4	12.6#
61	0.4	8.5	12.7#
70	2.9	5.9	8.9#

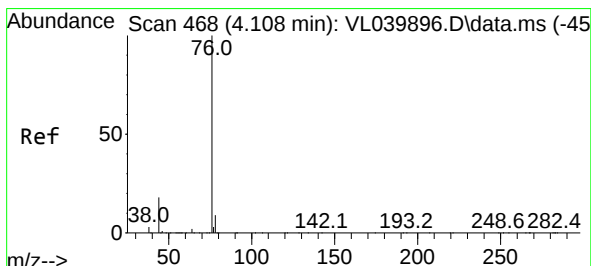
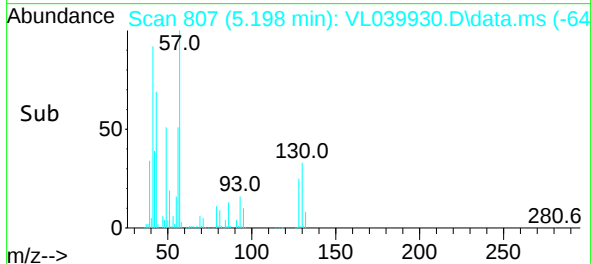
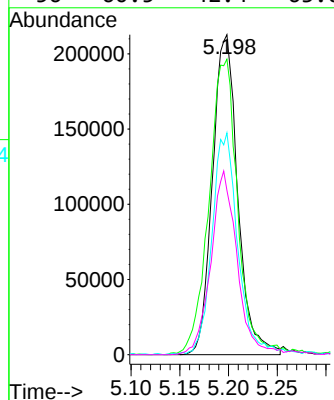
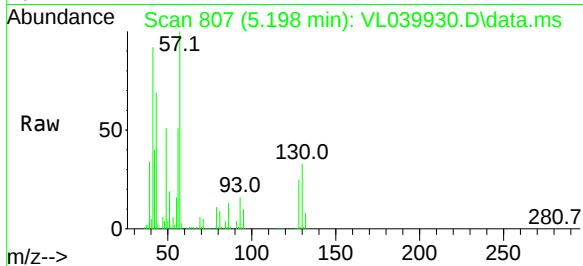




#26
Hexane
Concen: 3.836 ppbv
RT: 5.198 min Scan# 807
Delta R.T. 0.016 min
Lab File: VL039930.D
Acq: 23 Nov 2022 00:06

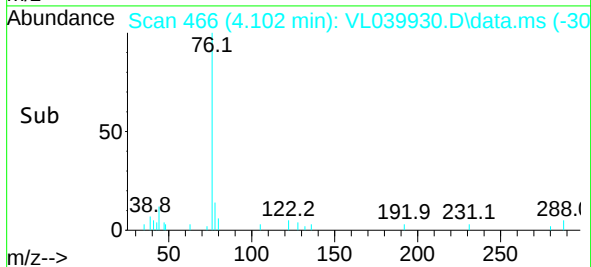
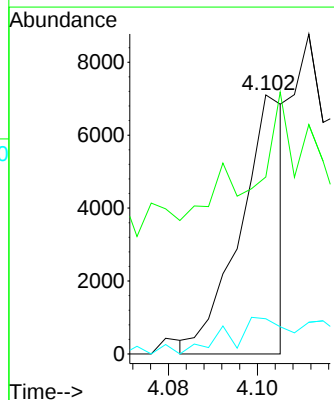
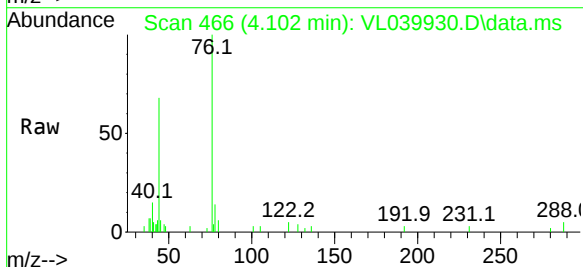
Instrument :
MSVOA_L
ClientSampleId :
SV1

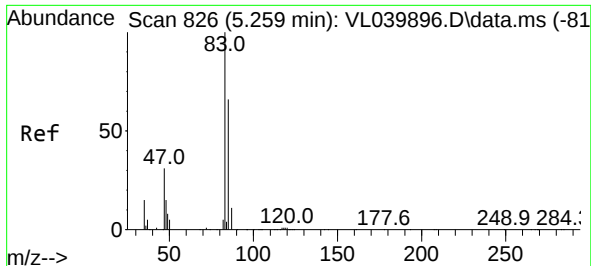
Tgt Ion: 57 Resp: 383549
Ion Ratio Lower Upper
57 100
41 106.8 72.3 108.5
43 72.3 188.7 283.1#
56 60.5 42.4 63.6



#27
Carbon Disulfide
Concen: 0.039 ppbv
RT: 4.102 min Scan# 466
Delta R.T. 0.013 min
Lab File: VL039930.D
Acq: 23 Nov 2022 00:06

Tgt Ion: 76 Resp: 4873
Ion Ratio Lower Upper
76 100
44 89.3 14.7 22.1#
78 39.2 7.8 11.8#





#29

Chloroform

Concen: 0.162 ppbv

RT: 5.256 min Scan# 81

Delta R.T. 0.016 min

Lab File: VL039930.D

Acq: 23 Nov 2022 00:06

Instrument :

MSVOA_L

ClientSampleId :

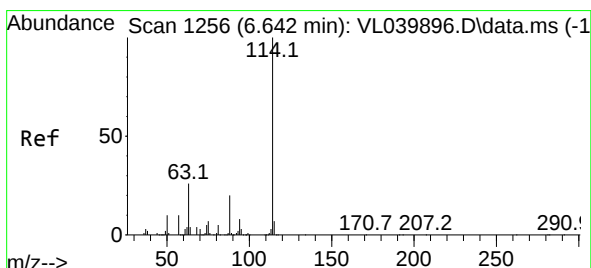
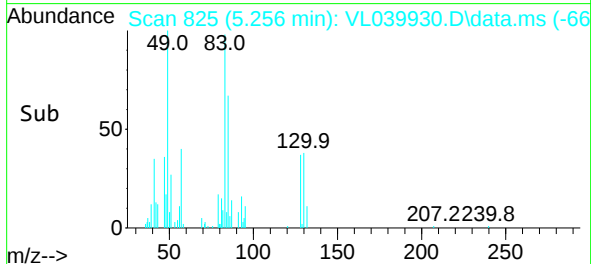
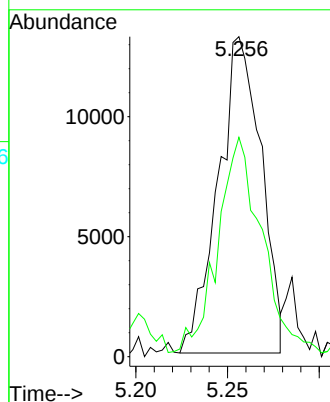
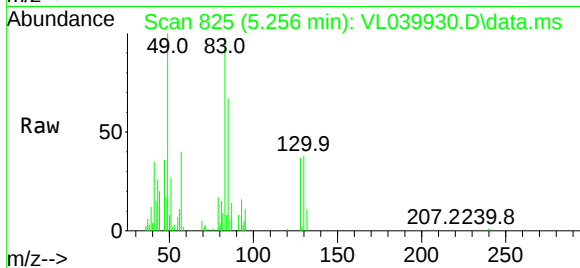
SV1

Tgt Ion: 83 Resp: 21509

Ion Ratio Lower Upper

83 100

85 66.9 52.4 78.6



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.639 min Scan# 1255

Delta R.T. 0.019 min

Lab File: VL039930.D

Acq: 23 Nov 2022 00:06

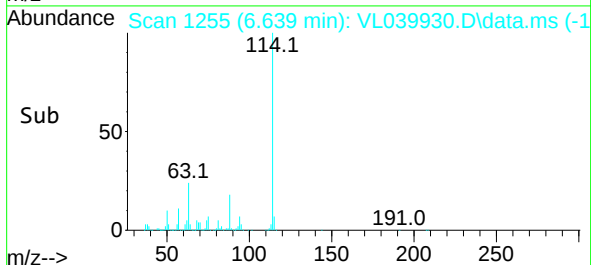
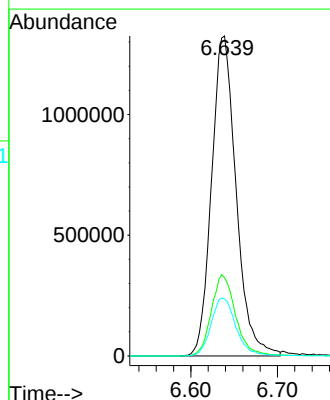
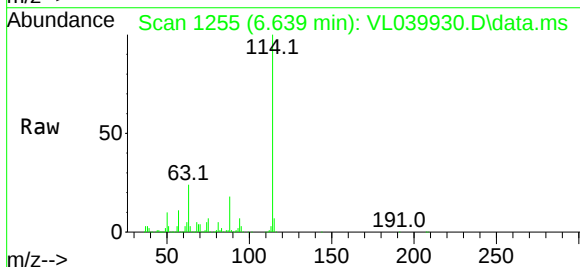
Tgt Ion: 114 Resp: 2610930

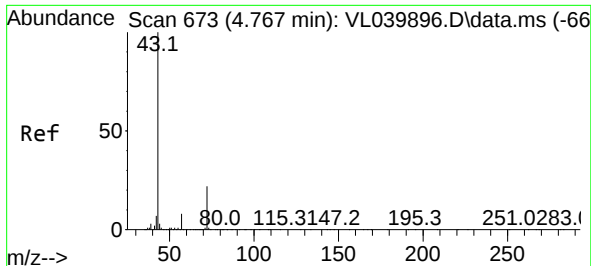
Ion Ratio Lower Upper

114 100

63 25.3 21.4 32.0

88 18.5 15.3 22.9

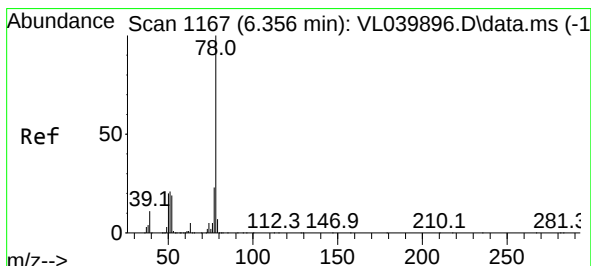
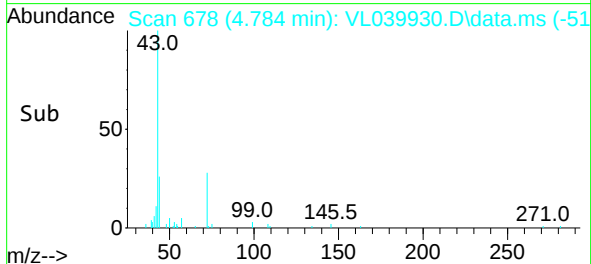
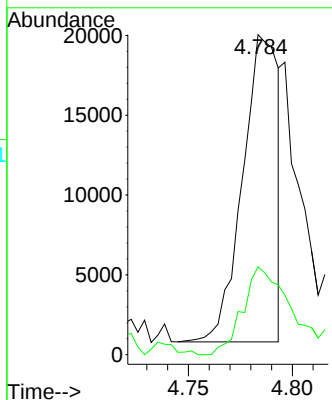
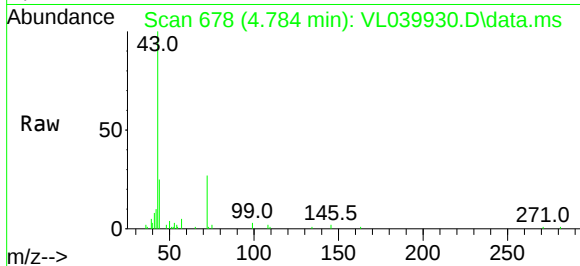




#34
2-Butanone
Concen: 0.182 ppbv
RT: 4.784 min Scan# 61
Delta R.T. 0.032 min
Lab File: VL039930.D
Acq: 23 Nov 2022 00:06

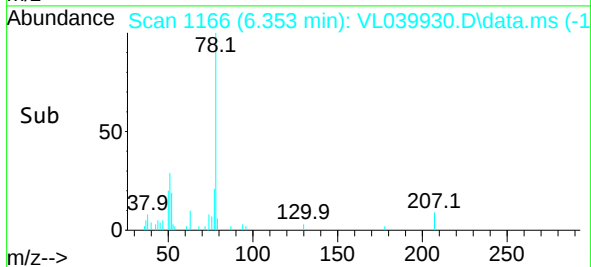
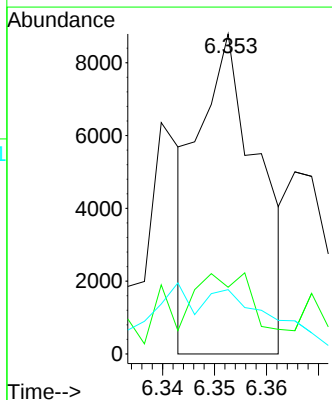
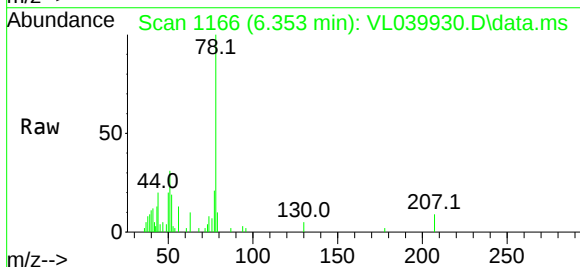
Instrument :
MSVOA_L
ClientSampleId :
SV1

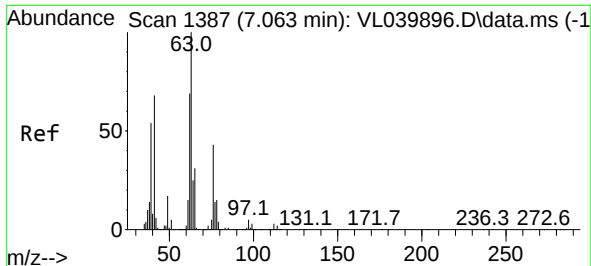
Tgt Ion: 43 Resp: 22768
Ion Ratio Lower Upper
43 100
72 43.3 17.4 26.2#



#36
Benzene
Concen: 0.032 ppbv
RT: 6.353 min Scan# 1166
Delta R.T. 0.016 min
Lab File: VL039930.D
Acq: 23 Nov 2022 00:06

Tgt Ion: 78 Resp: 7036
Ion Ratio Lower Upper
78 100
77 26.8 18.2 27.2
50 19.1 15.8 23.8





#39

1,2-Dichloropropane

Concen: 7.564 ppbv

RT: 6.636 min Scan# 11

Delta R.T. -0.405 min

Lab File: VL039930.D

Acq: 23 Nov 2022 00:06

Instrument :

MSVOA_L

ClientSampleId :

SV1

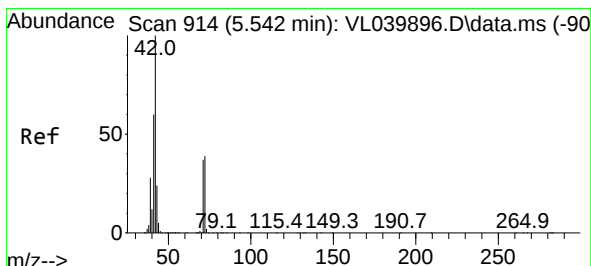
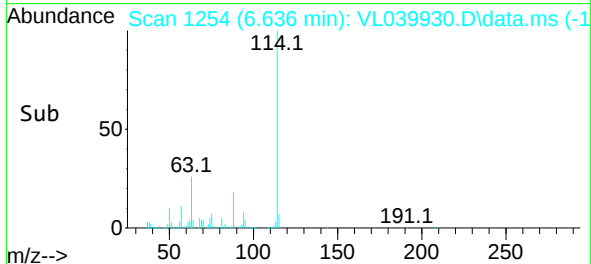
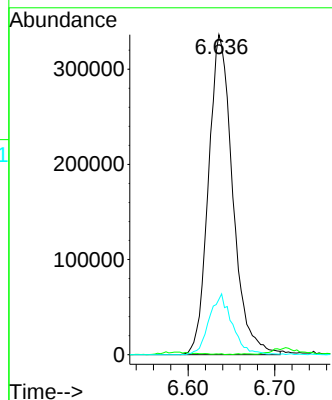
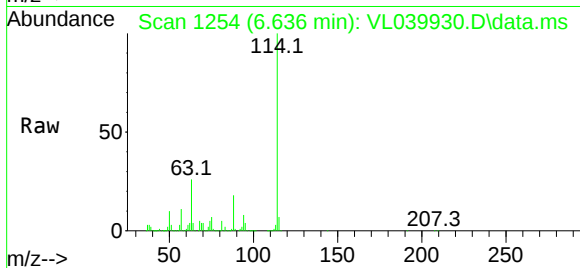
Tgt Ion: 63 Resp: 654062

Ion Ratio Lower Upper

63 100

41 0.0 54.7 82.1#

62 17.3 55.0 82.6#



#41

Tetrahydrofuran

Concen: 0.032 ppbv

RT: 5.800 min Scan# 994

Delta R.T. 0.277 min

Lab File: VL039930.D

Acq: 23 Nov 2022 00:06

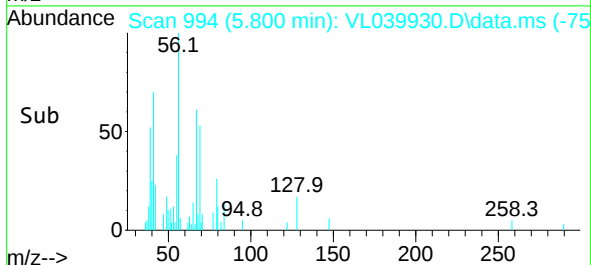
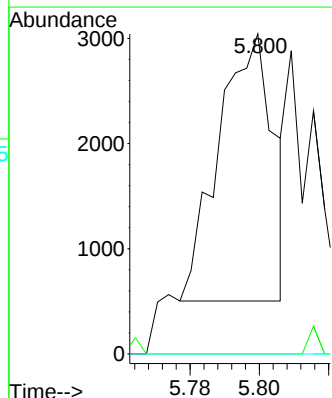
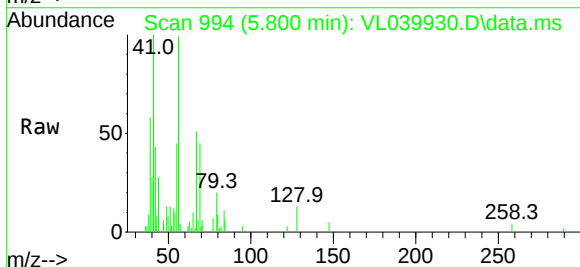
Tgt Ion: 42 Resp: 2779

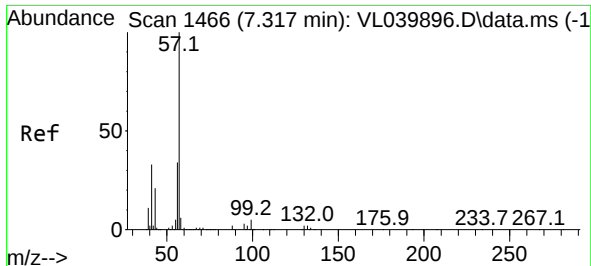
Ion Ratio Lower Upper

42 100

72 23.8 31.6 47.4#

71 26.3 31.2 46.8#





#44

2,2,4-Trimethylpentane

Concen: 0.139 ppbv

RT: 7.311 min Scan# 1466

Delta R.T. 0.016 min

Lab File: VL039930.D

Acq: 23 Nov 2022 00:06

Instrument :

MSVOA_L

ClientSampleId :

SV1

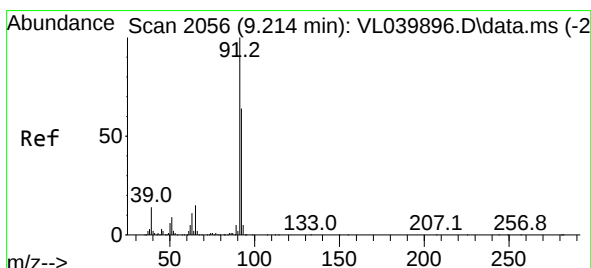
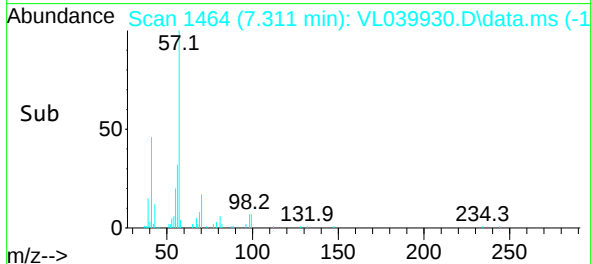
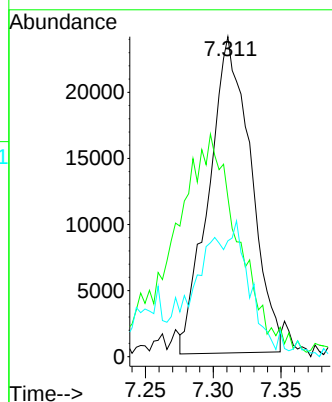
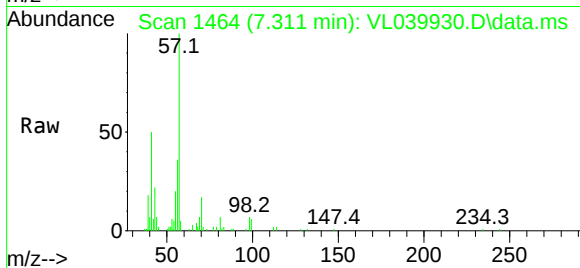
Tgt Ion: 57 Resp: 51470

Ion Ratio Lower Upper

57 100

41 125.1 26.2 39.2#

56 54.7 25.5 38.3#



#53

Toluene

Concen: 1.087 ppbv

RT: 9.208 min Scan# 2054

Delta R.T. 0.016 min

Lab File: VL039930.D

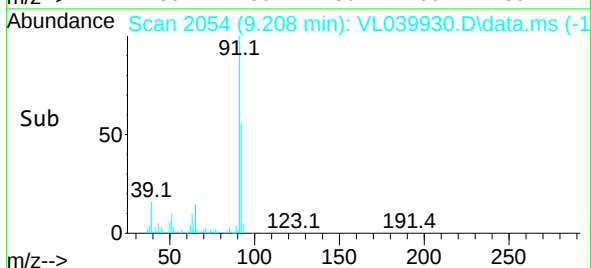
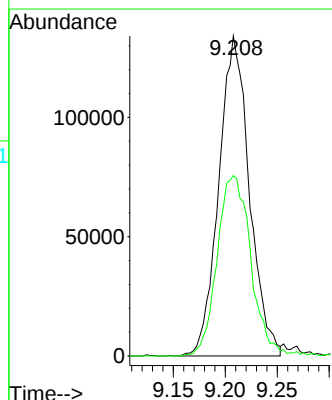
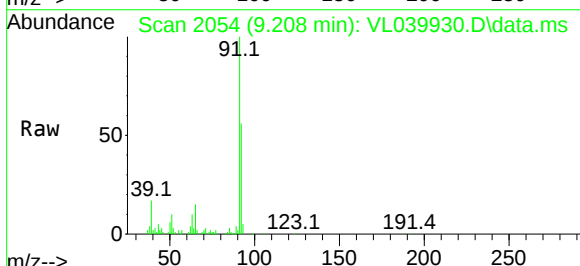
Acq: 23 Nov 2022 00:06

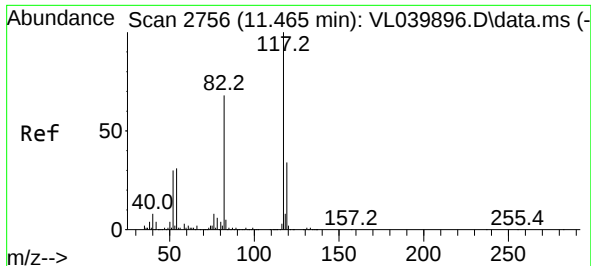
Tgt Ion: 91 Resp: 274762

Ion Ratio Lower Upper

91 100

92 62.6 49.8 74.6

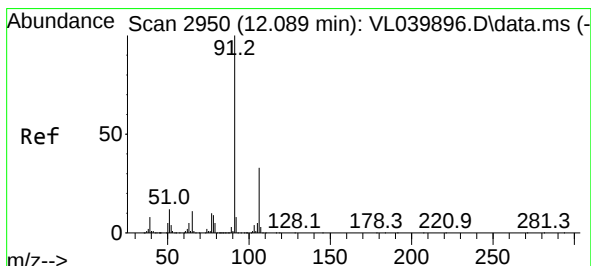
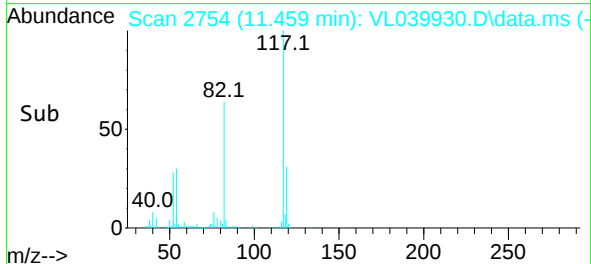
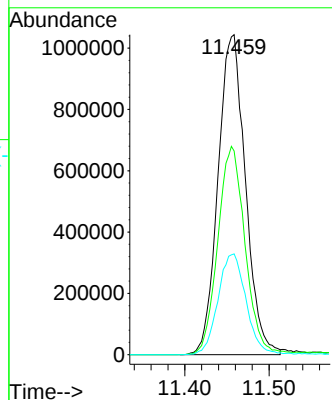
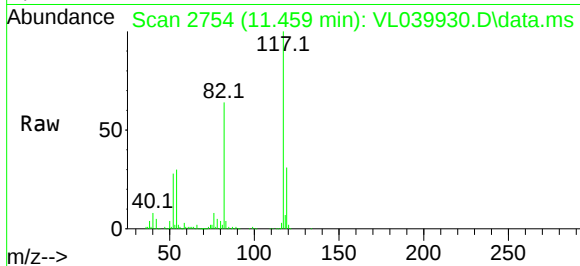




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.459 min Scan# 21
Delta R.T. 0.019 min
Lab File: VL039930.D
Acq: 23 Nov 2022 00:06

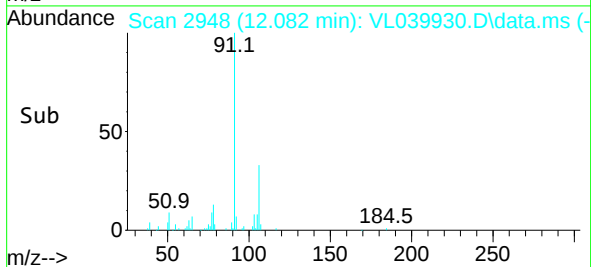
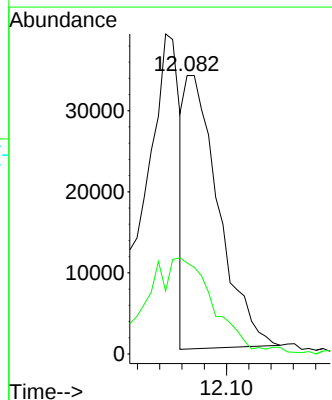
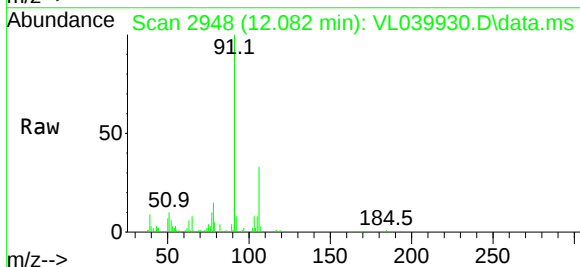
Instrument :
MSVOA_L
ClientSampleId :
SV1

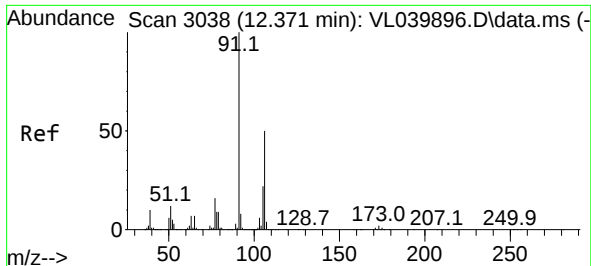
Tgt Ion:117 Resp: 2355921
Ion Ratio Lower Upper
117 100
82 65.2 52.3 78.5
119 32.4 25.7 38.5



#58
Ethyl Benzene
Concen: 0.112 ppbv
RT: 12.082 min Scan# 2948
Delta R.T. 0.019 min
Lab File: VL039930.D
Acq: 23 Nov 2022 00:06

Tgt Ion: 91 Resp: 35676
Ion Ratio Lower Upper
91 100
106 31.4 26.1 39.1





#59

m/p-Xylene

Concen: 1.079 ppbv

RT: 12.336 min Scan# 3038

Delta R.T. -0.010 min

Lab File: VL039930.D

Acq: 23 Nov 2022 00:06

Instrument :

MSVOA_L

ClientSampleId :

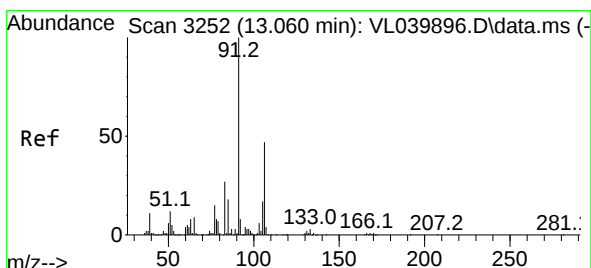
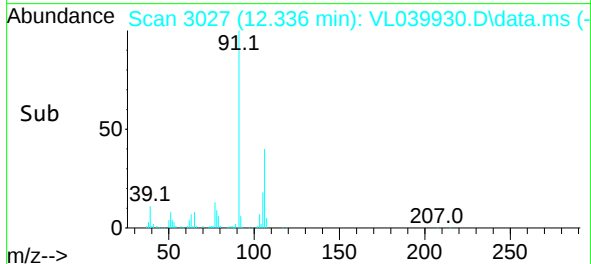
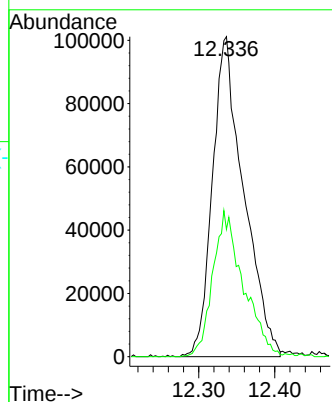
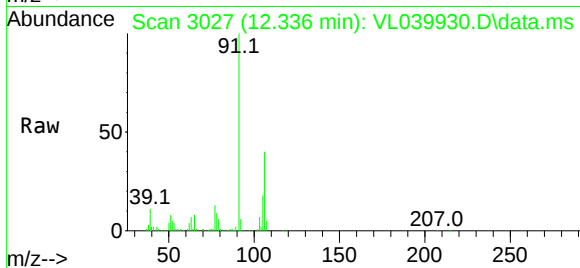
SV1

Tgt Ion: 91 Resp: 288691

Ion Ratio Lower Upper

91 100

106 44.7 37.0 55.6



#60

o-Xylene

Concen: 0.641 ppbv

RT: 13.050 min Scan# 3249

Delta R.T. 0.013 min

Lab File: VL039930.D

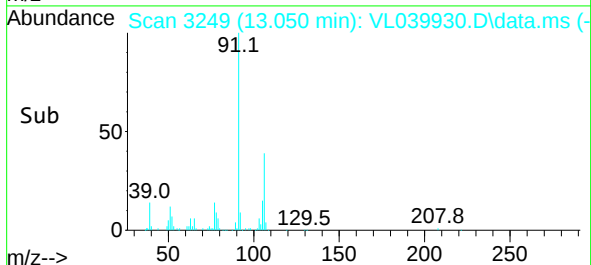
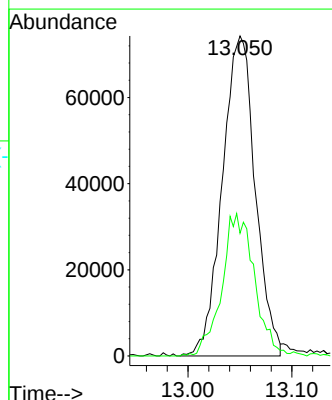
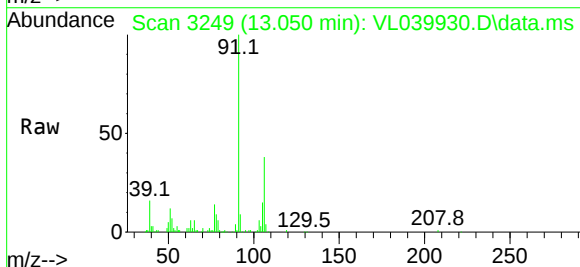
Acq: 23 Nov 2022 00:06

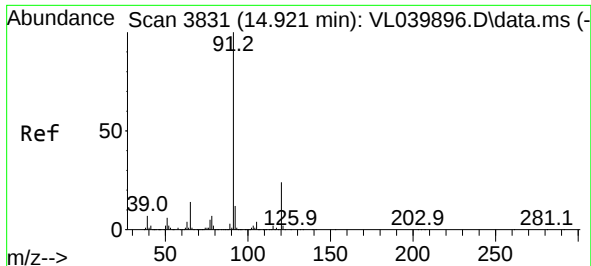
Tgt Ion: 91 Resp: 163451

Ion Ratio Lower Upper

91 100

106 44.5 23.2 69.6

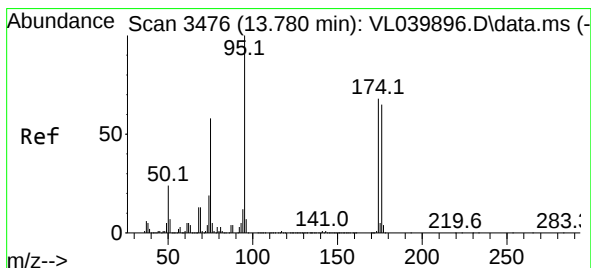
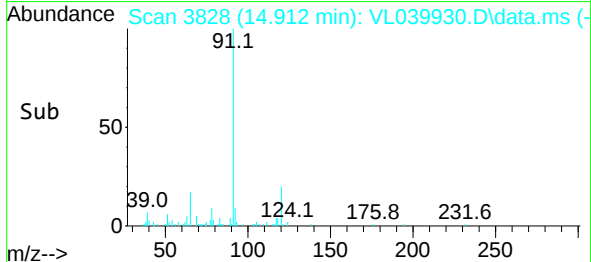
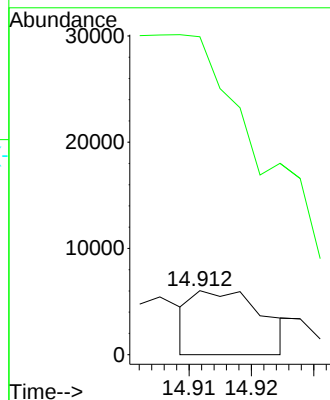
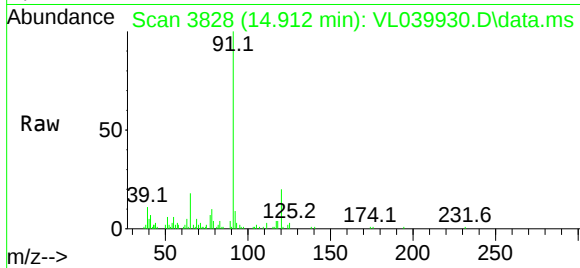




#64
n-propylbenzene
Concen: 0.049 ppbv
RT: 14.912 min Scan# 3828
Delta R.T. 0.016 min
Lab File: VL039930.D
Acq: 23 Nov 2022 00:06

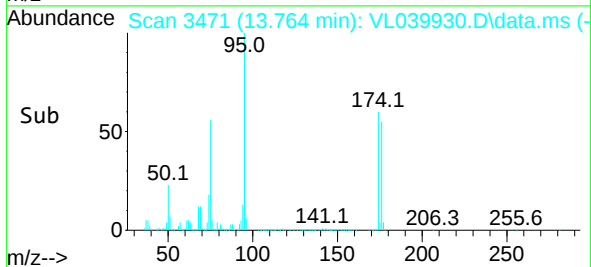
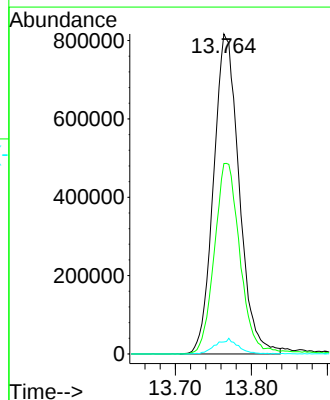
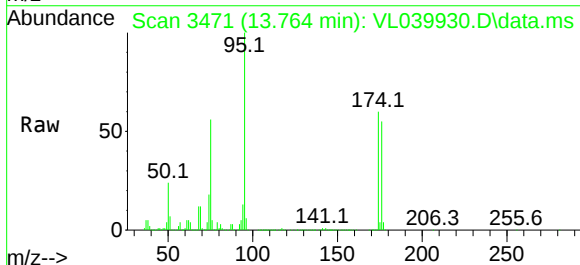
Instrument :
MSVOA_L
ClientSampleId :
SV1

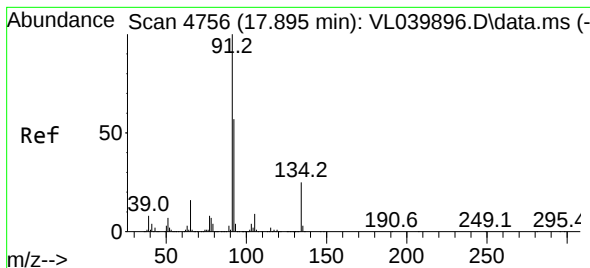
Tgt Ion:120 Resp: 4739
Ion Ratio Lower Upper
120 100
91 1595.3 353.7 530.5#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.614 ppbv
RT: 13.764 min Scan# 3471
Delta R.T. 0.010 min
Lab File: VL039930.D
Acq: 23 Nov 2022 00:06

Tgt Ion: 95 Resp: 1910012
Ion Ratio Lower Upper
95 100
174 60.8 53.7 80.5
175 4.3 4.0 6.0

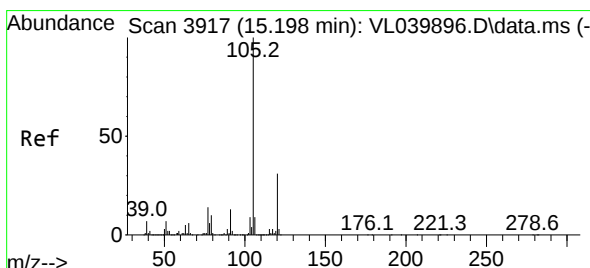
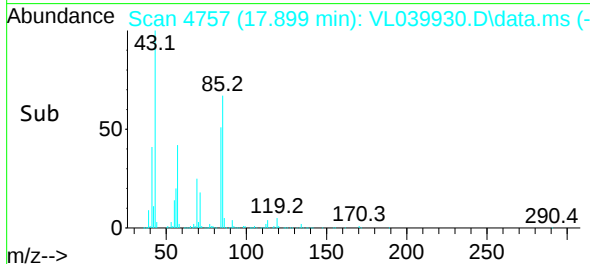
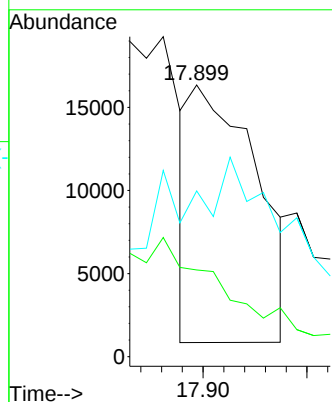
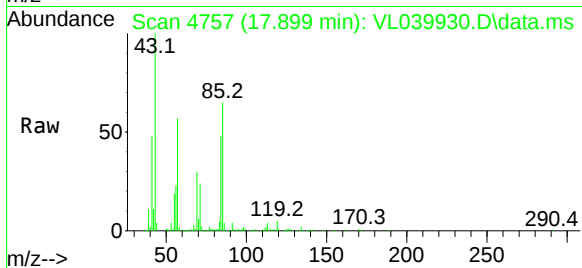




#70
n-Butylbenzene
Concen: 0.038 ppbv
RT: 17.899 min Scan# 41
Delta R.T. 0.026 min
Lab File: VL039930.D
Acq: 23 Nov 2022 00:06

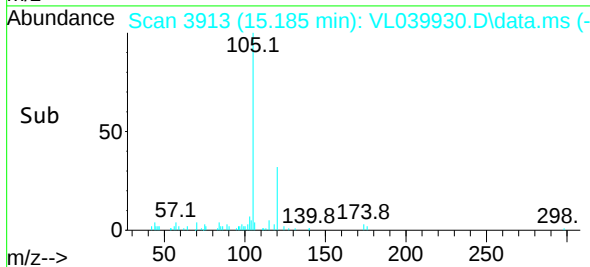
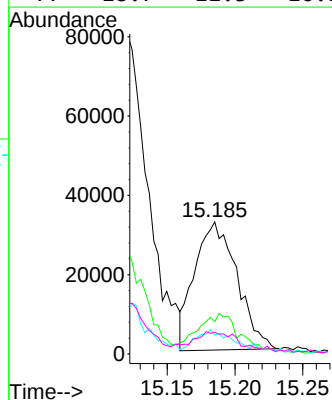
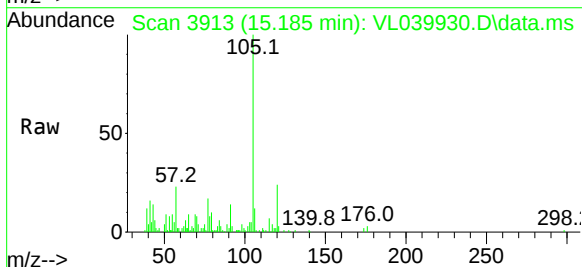
Instrument :
MSVOA_L
ClientSampleId :
SV1

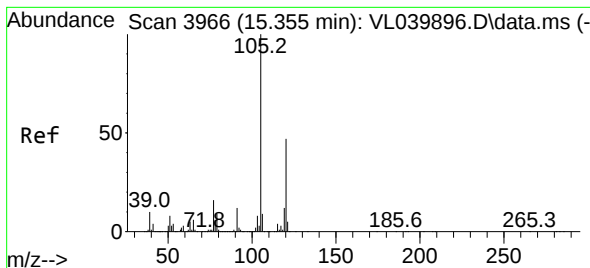
Tgt Ion: 91 Resp: 13815
Ion Ratio Lower Upper
91 100
92 0.0 44.2 66.2#
134 260.2 18.8 28.2#



#72
4-Ethyltoluene
Concen: 0.245 ppbv
RT: 15.185 min Scan# 3913
Delta R.T. 0.010 min
Lab File: VL039930.D
Acq: 23 Nov 2022 00:06

Tgt Ion:105 Resp: 70158
Ion Ratio Lower Upper
105 100
120 34.7 24.5 36.7
91 18.4 10.4 15.6#
77 18.7 11.3 16.9#





#73

1,3,5-Trimethylbenzene

Concen: 0.220 ppbv

RT: 15.346 min Scan# 3966

Delta R.T. 0.013 min

Lab File: VL039930.D

Acq: 23 Nov 2022 00:06

Instrument :

MSVOA_L

ClientSampleId :

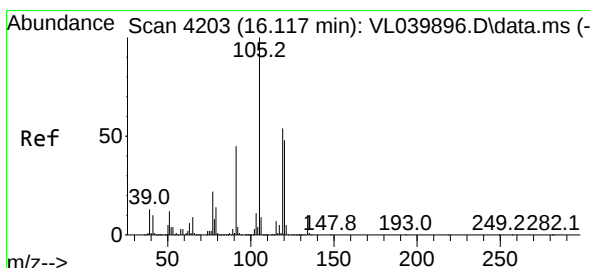
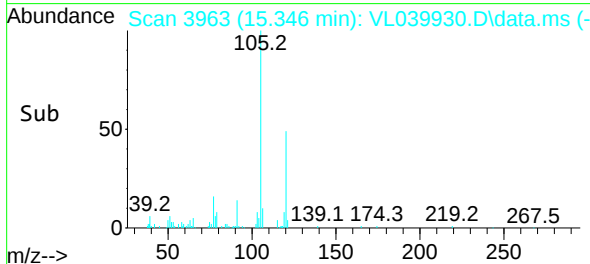
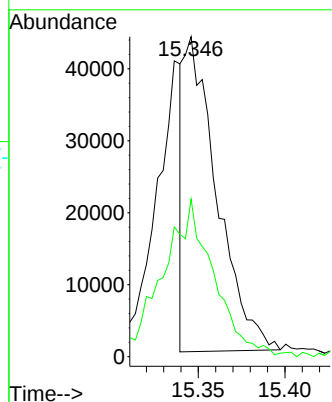
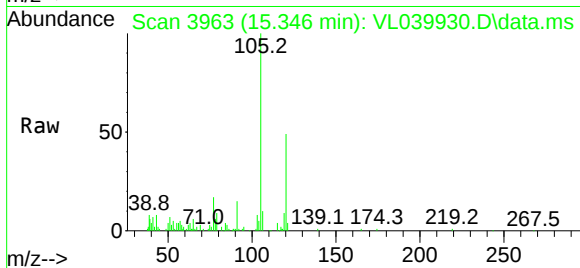
SV1

Tgt Ion:105 Resp: 57830

Ion Ratio Lower Upper

105 100

120 48.4 37.9 56.9



#74

1,2,4-Trimethylbenzene

Concen: 0.585 ppbv

RT: 16.105 min Scan# 4199

Delta R.T. 0.013 min

Lab File: VL039930.D

Acq: 23 Nov 2022 00:06

Tgt Ion:105 Resp: 162645

Ion Ratio Lower Upper

105 100

120 40.3 38.7 58.1

91 12.4 36.4 54.6#

77 14.9 17.4 26.0#

