

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL102323\
 Data File : VL040783.D
 Acq On : 23 Oct 2023 17:57
 Operator : SY/MD
 Sample : 05004-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

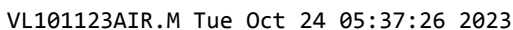
Quant Time: Oct 24 05:37:16 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Oct 12 00:21:08 2023
 Response via : Initial Calibration

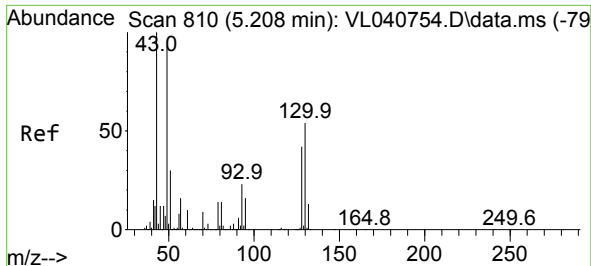
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.182	49	892836	10.000	ppbv	-0.03
33) 1,4-Difluorobenzene	6.642	114	2433763	10.000	ppbv	-0.03
55) Chlorobenzene-d5	11.446	117	2187535	10.000	ppbv	-0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.754	95	1668371	10.365	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	= 103.600%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.735	85	81720	0.520	ppbv	92
3) Chlorodifluoromethane	2.684	51	45115	0.344	ppbv #	87
4) Chloromethane	2.819	50	28099	0.542	ppbv #	81
9) Propene	2.710	41	16727	0.343	ppbv #	14
11) Trichlorofluoromethane	3.568	101	29963	0.247	ppbv #	79
12) 1,1,2-Trichlorotrifluo...	4.063	101	5523	0.064	ppbv	83
13) Ethanol	3.250	45	57465	5.223	ppbv	93
15) Acetone	3.472	43	513521	5.564	ppbv	99
16) 1,3-Butadiene	2.993	39	2125	0.044	ppbv #	1
19) Isopropyl Alcohol	3.594	45	24106	0.406	ppbv #	37
20) Methylene Chloride	3.931	84	524526	13.643	ppbv	99
23) Vinyl Acetate	4.613	43	30970	0.263	ppbv #	63
25) Ethyl Acetate	5.208	43	227236	1.124	ppbv #	78
26) Hexane	5.205	57	308051	3.333	ppbv #	42
34) 2-Butanone	4.790	43	29100	0.264	ppbv	95
35) Carbon Tetrachloride	6.478	117	4799	0.035	ppbv	91
36) Benzene	6.353	78	22721	0.121	ppbv	97
39) 1,2-Dichloropropane	6.642	63	556986	7.616	ppbv #	27
44) 2,2,4-Trimethylpentane	7.311	57	77739	0.246	ppbv #	86
53) Toluene	9.204	91	177779	0.798	ppbv	98
56) 1,1,1,2-Tetrachloroethane	11.671	131	85373	0.956	ppbv #	42
58) Ethyl Benzene	12.066	91	47028	0.171	ppbv	94
59) m/p-Xylene	12.346	91	26526	0.117	ppbv #	30
60) o-Xylene	13.031	91	17831	0.083	ppbv #	30

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

Quant Time: Oct 24 05:37:16 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Oct 12 00:21:08 2023
Response via : Initial Calibration

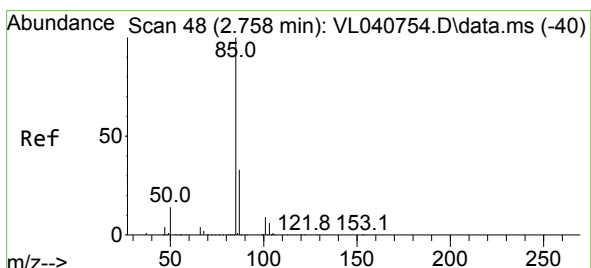
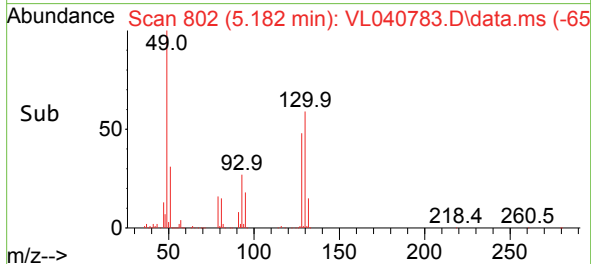
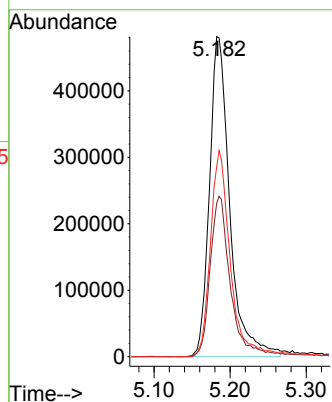
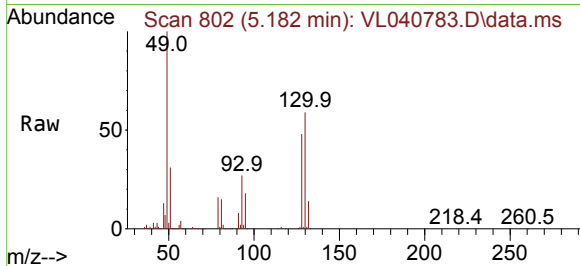




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.182 min Scan# 80
 Delta R.T. -0.026 min
 Lab File: VL040783.D
 Acq: 23 Oct 2023 17:57

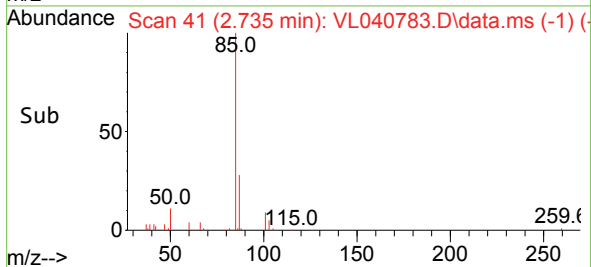
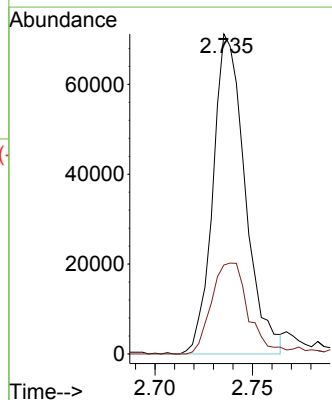
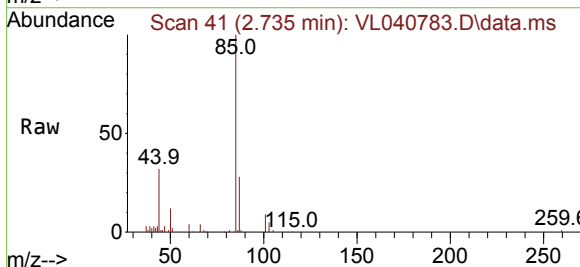
Instrument :
 MSVOA_L
 ClientSampleId :

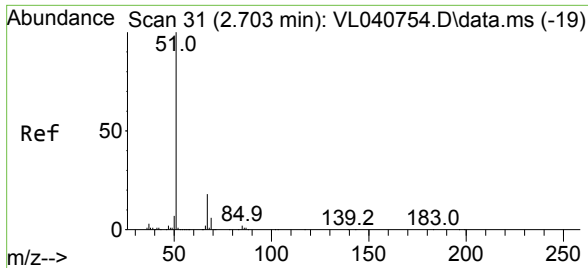
Tgt Ion: 49 Resp: 892836
 Ion Ratio Lower Upper
 49 100
 128 51.5 23.9 71.7
 130 64.5 30.7 92.1



#2
 Dichlorodifluoromethane
 Concen: 0.520 ppbv
 RT: 2.735 min Scan# 41
 Delta R.T. -0.022 min
 Lab File: VL040783.D
 Acq: 23 Oct 2023 17:57

Tgt Ion: 85 Resp: 81720
 Ion Ratio Lower Upper
 85 100
 87 27.8 26.0 39.0

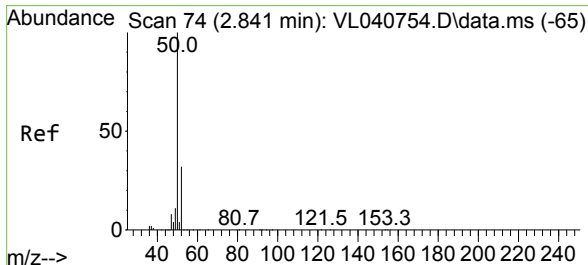
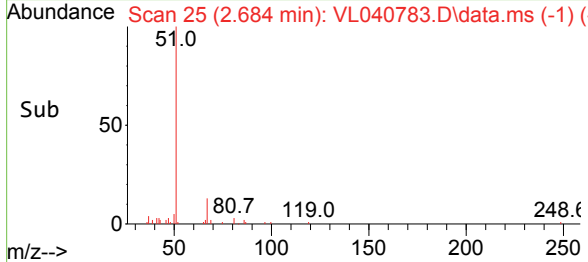
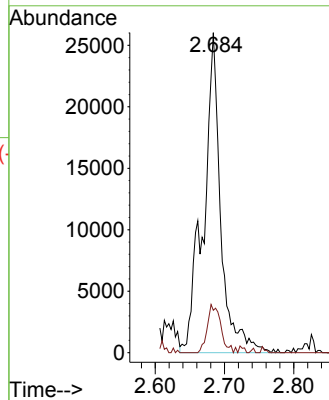
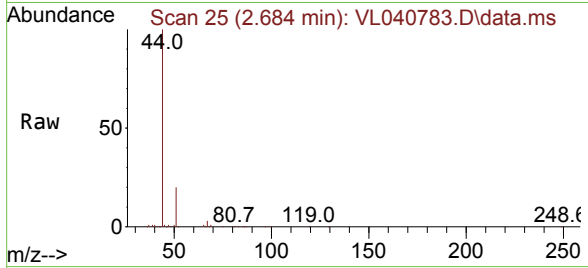




#3
Chlorodifluoromethane
Concen: 0.344 ppbv
RT: 2.684 min Scan# 21
Delta R.T. -0.019 min
Lab File: VL040783.D
Acq: 23 Oct 2023 17:57

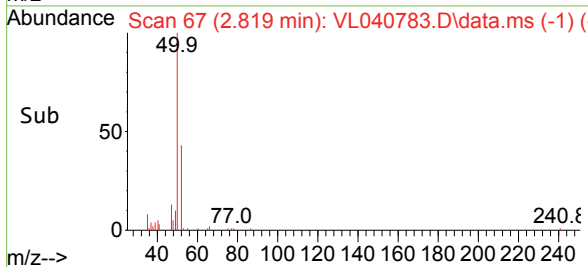
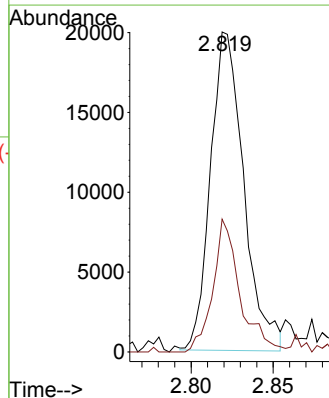
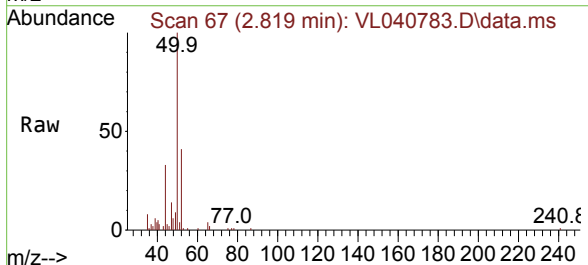
Instrument :
MSVOA_L
ClientSampleId :

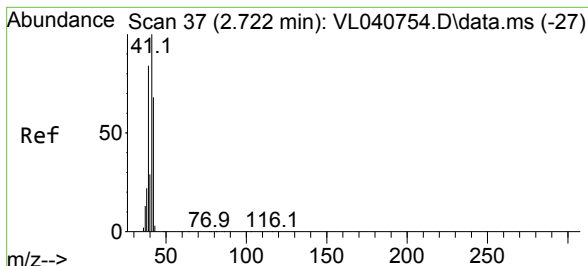
Tgt Ion: 51 Resp: 45115
Ion Ratio Lower Upper
51 100
67 11.5 13.8 20.6#



#4
Chloromethane
Concen: 0.542 ppbv
RT: 2.819 min Scan# 67
Delta R.T. -0.022 min
Lab File: VL040783.D
Acq: 23 Oct 2023 17:57

Tgt Ion: 50 Resp: 28099
Ion Ratio Lower Upper
50 100
52 42.0 25.3 37.9#





#9

Propene

Concen: 0.343 ppbv

RT: 2.710 min Scan# 31

Delta R.T. -0.013 min

Lab File: VL040783.D

Acq: 23 Oct 2023 17:57

Instrument :

MSVOA_L

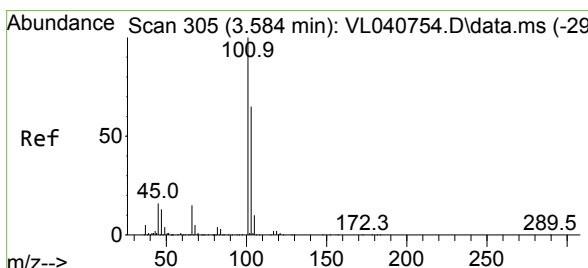
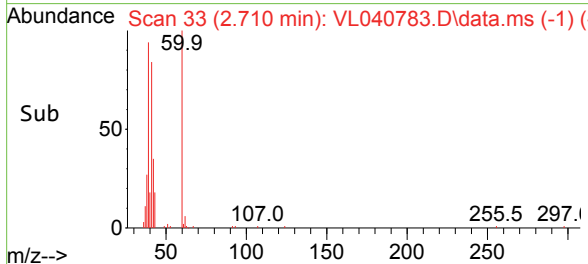
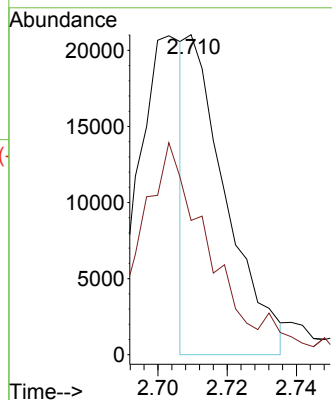
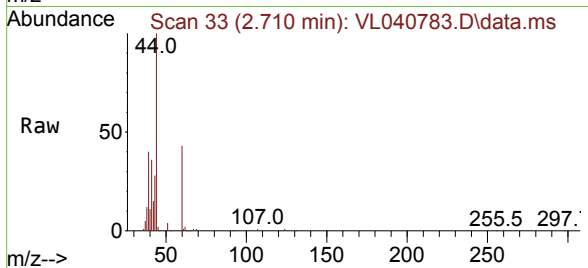
ClientSampleId :

Tgt Ion: 41 Resp: 16727

Ion Ratio Lower Upper

41 100

42 0.0 57.1 85.7#



#11

Trichlorofluoromethane

Concen: 0.247 ppbv

RT: 3.568 min Scan# 300

Delta R.T. -0.016 min

Lab File: VL040783.D

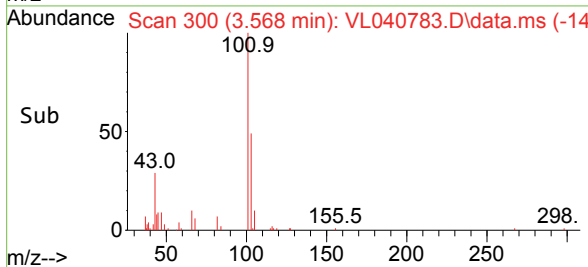
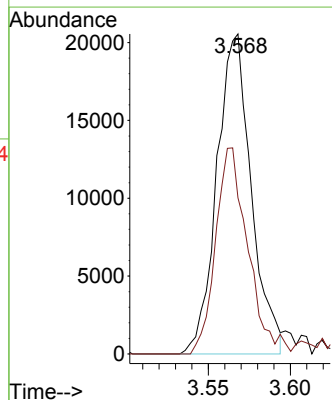
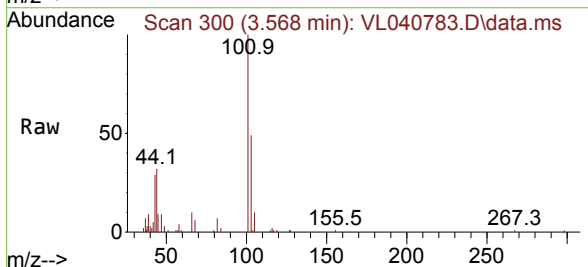
Acq: 23 Oct 2023 17:57

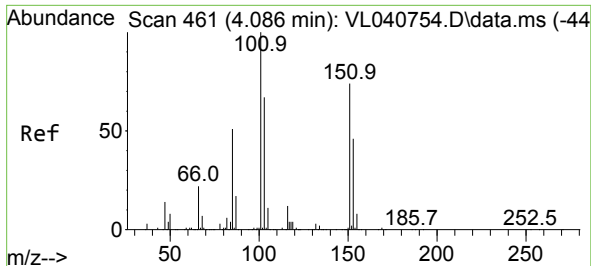
Tgt Ion:101 Resp: 29963

Ion Ratio Lower Upper

101 100

103 48.8 52.2 78.2#

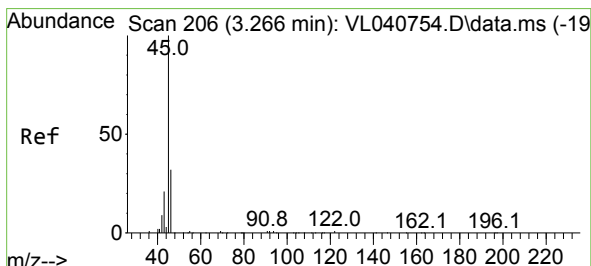
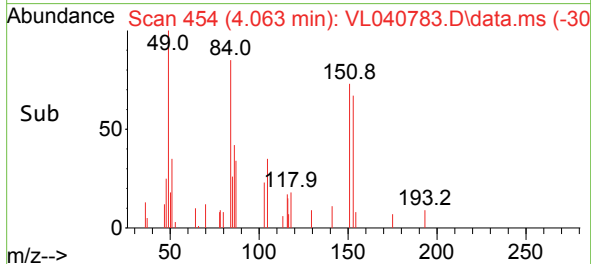
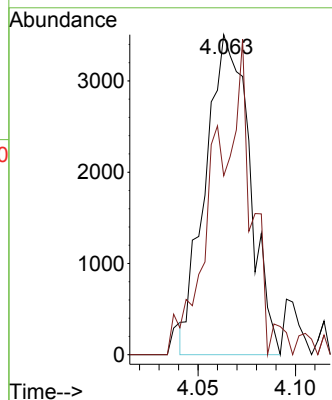
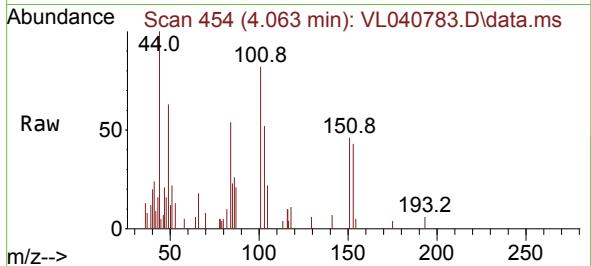




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.064 ppbv
 RT: 4.063 min Scan# 41
 Delta R.T. -0.022 min
 Lab File: VL040783.D
 Acq: 23 Oct 2023 17:57

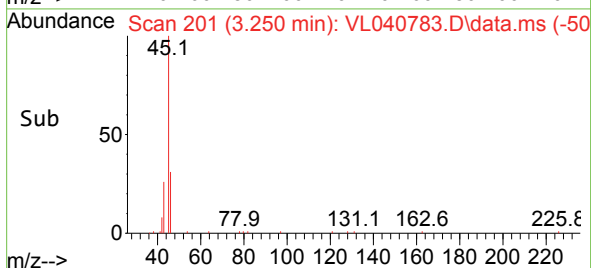
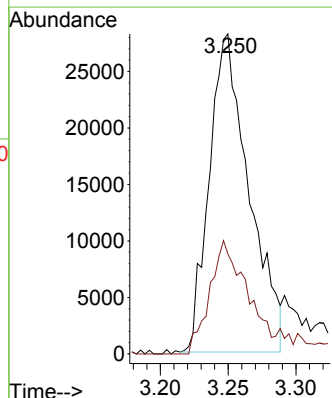
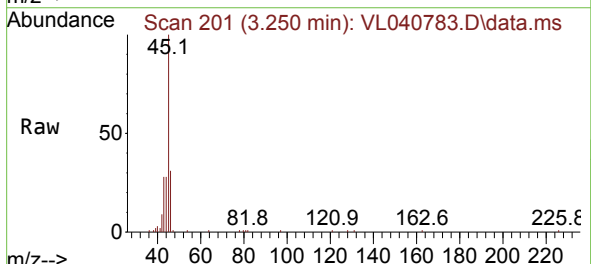
Instrument :
 MSVOA_L
 ClientSampleId :

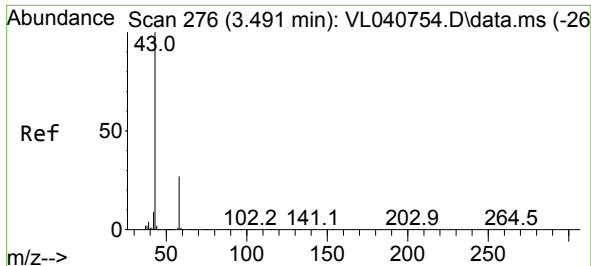
Tgt Ion:101 Resp: 5523
 Ion Ratio Lower Upper
 101 100
 151 86.6 58.1 87.1



#13
 Ethanol
 Concen: 5.223 ppbv
 RT: 3.250 min Scan# 201
 Delta R.T. -0.016 min
 Lab File: VL040783.D
 Acq: 23 Oct 2023 17:57

Tgt Ion: 45 Resp: 57465
 Ion Ratio Lower Upper
 45 100
 46 40.6 14.6 58.2

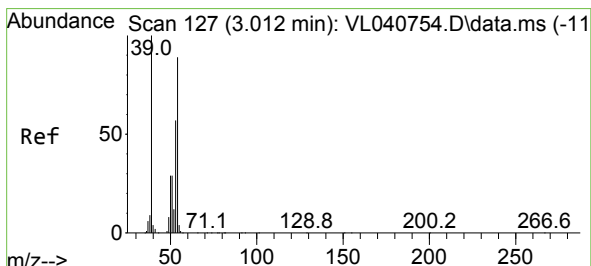
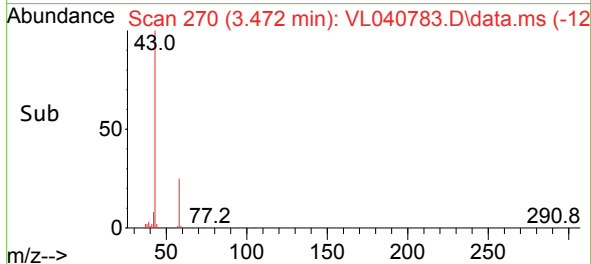
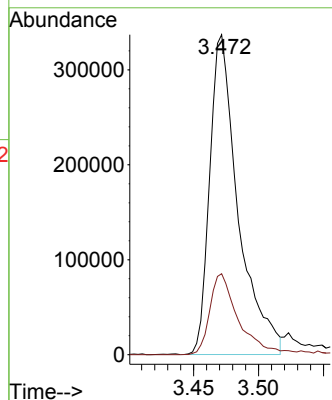
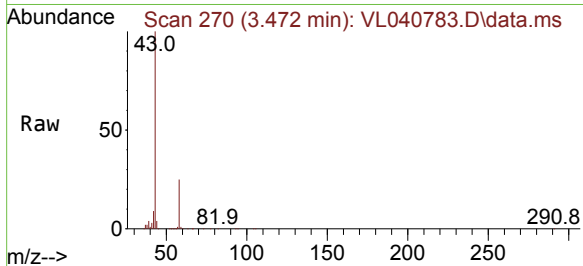




#15
Acetone
Concen: 5.564 ppbv
RT: 3.472 min Scan# 21
Delta R.T. -0.019 min
Lab File: VL040783.D
Acq: 23 Oct 2023 17:57

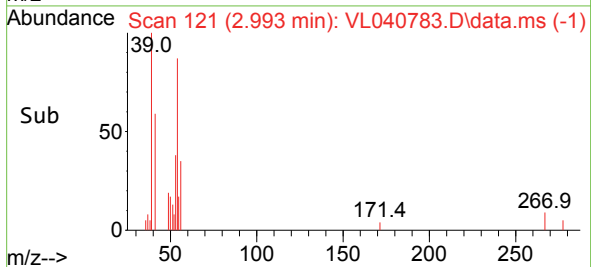
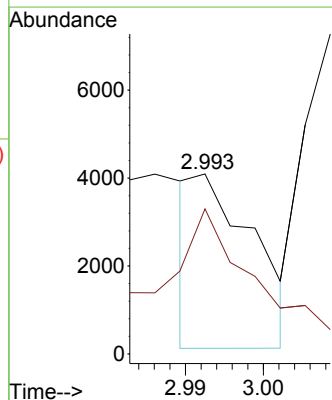
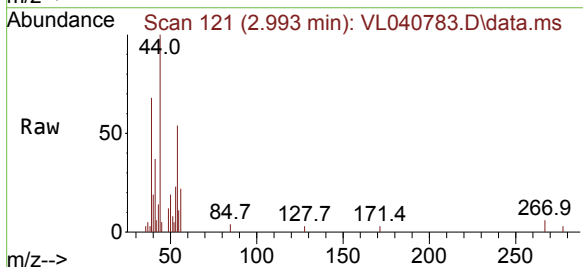
Instrument :
MSVOA_L
ClientSampleId :

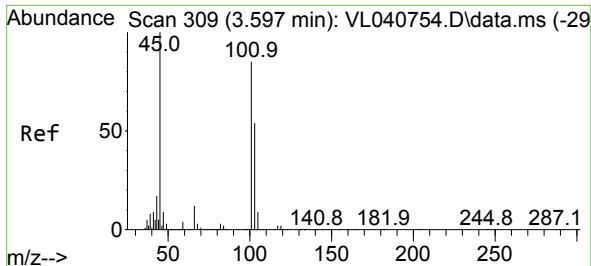
Tgt Ion: 43 Resp: 513521
Ion Ratio Lower Upper
43 100
58 27.3 21.6 32.4



#16
1,3-Butadiene
Concen: 0.044 ppbv
RT: 2.993 min Scan# 121
Delta R.T. -0.019 min
Lab File: VL040783.D
Acq: 23 Oct 2023 17:57

Tgt Ion: 39 Resp: 2125
Ion Ratio Lower Upper
39 100
54 189.3 63.0 94.6#

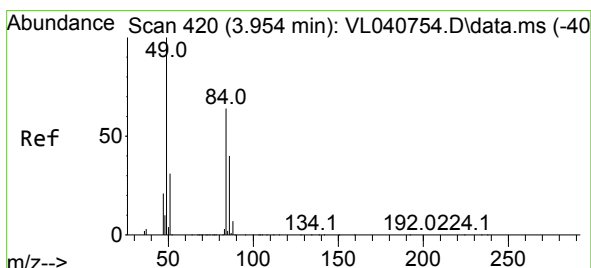
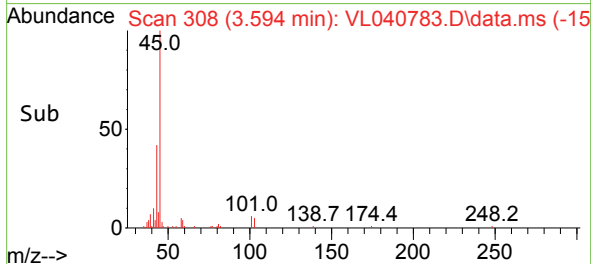
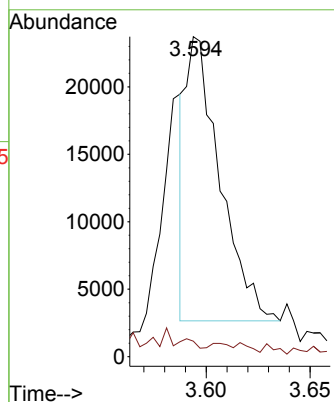
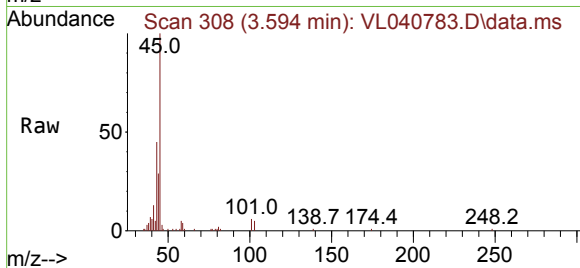




#19
Isopropyl Alcohol
Concen: 0.406 ppbv
RT: 3.594 min Scan# 309
Delta R.T. -0.003 min
Lab File: VL040783.D
Acq: 23 Oct 2023 17:57

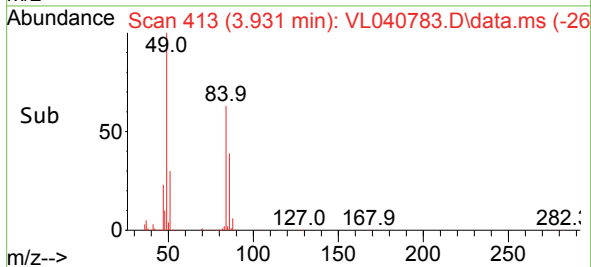
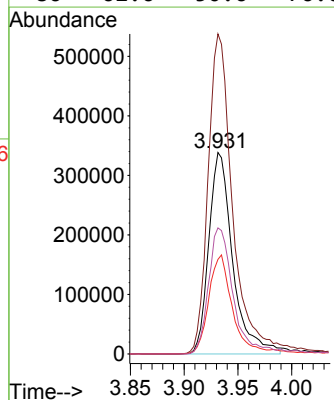
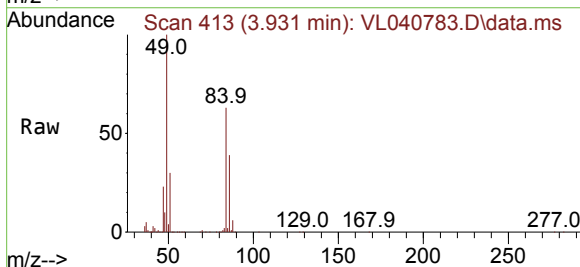
Instrument :
MSVOA_L
ClientSampleId :

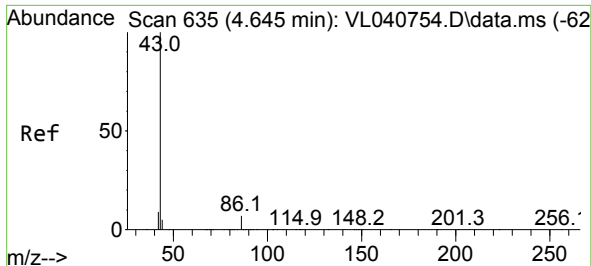
Tgt Ion: 45 Resp: 24106
Ion Ratio Lower Upper
45 100
58 0.0 30.3 45.5#



#20
Methylene Chloride
Concen: 13.643 ppbv
RT: 3.931 min Scan# 413
Delta R.T. -0.022 min
Lab File: VL040783.D
Acq: 23 Oct 2023 17:57

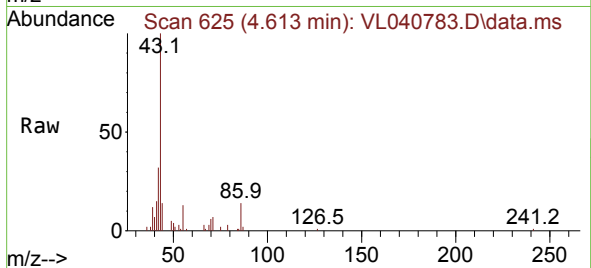
Tgt Ion: 84 Resp: 524526
Ion Ratio Lower Upper
84 100
49 158.8 125.6 188.4
51 46.9 38.9 58.3
86 62.6 50.6 76.0



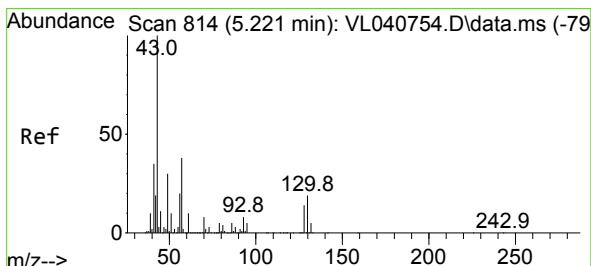
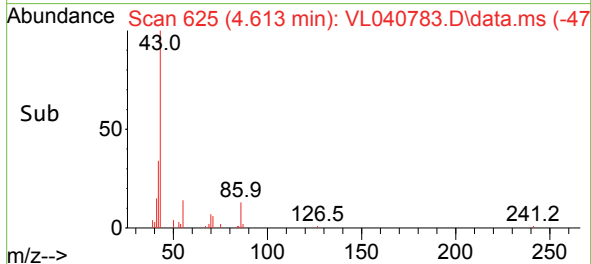
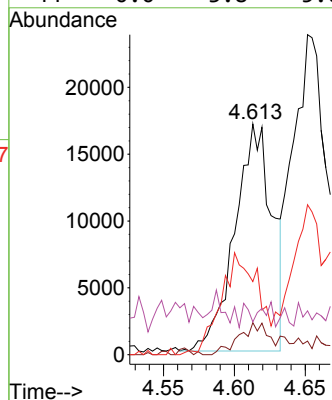


#23
 Vinyl Acetate
 Concen: 0.263 ppbv
 RT: 4.613 min Scan# 61
 Delta R.T. -0.032 min
 Lab File: VL040783.D
 Acq: 23 Oct 2023 17:57

Instrument :
 MSVOA_L
 ClientSampleId :

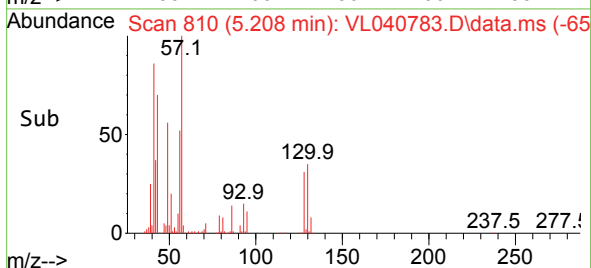
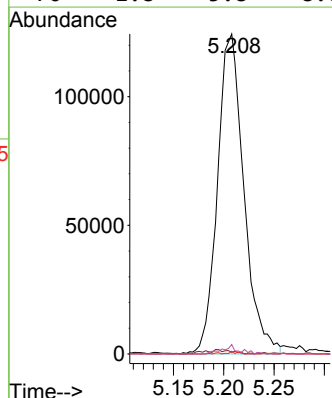
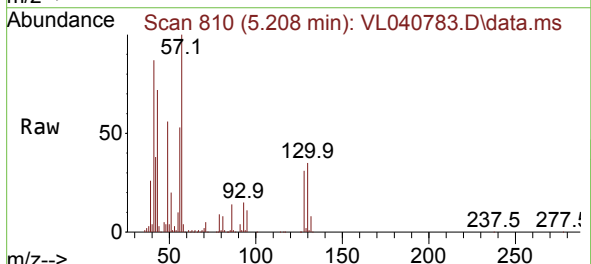


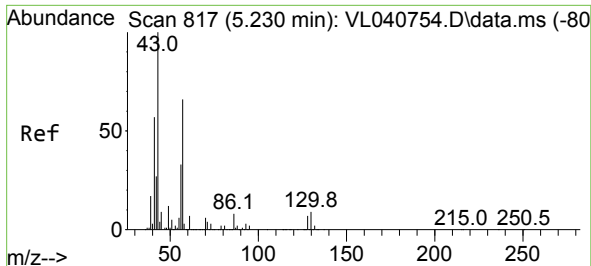
Tgt Ion: 43	Resp: 30970
Ion Ratio	Lower Upper
43 100	
86 11.8	4.9 7.3#
42 32.2	7.8 11.6#
44 0.0	3.8 5.6#



#25
 Ethyl Acetate
 Concen: 1.124 ppbv
 RT: 5.208 min Scan# 810
 Delta R.T. -0.013 min
 Lab File: VL040783.D
 Acq: 23 Oct 2023 17:57

Tgt	Ion: 43	Resp:	227236
Ion	Ratio	Lower	Upper
43	100		
45	1.7	8.2	12.4#
61	0.3	8.2	12.2#
70	1.8	5.8	8.6#

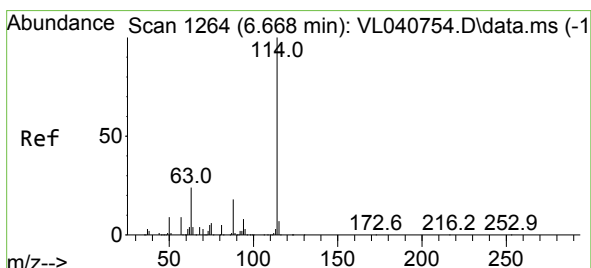
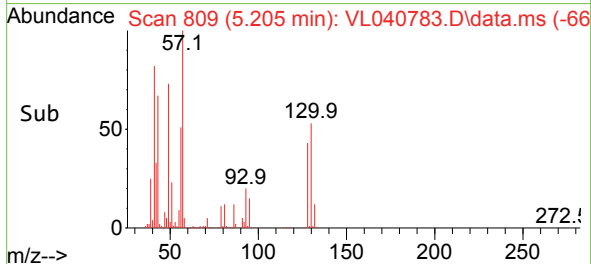
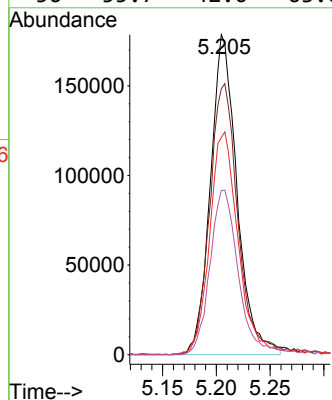
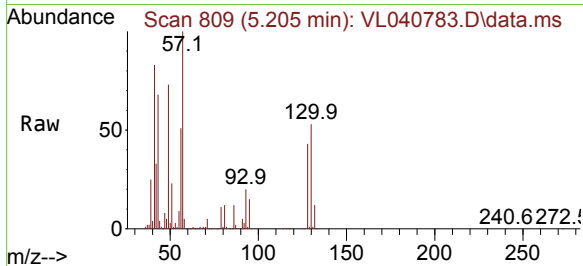




#26
Hexane
Concen: 3.333 ppbv
RT: 5.205 min Scan# 809
Delta R.T. -0.026 min
Lab File: VL040783.D
Acq: 23 Oct 2023 17:57

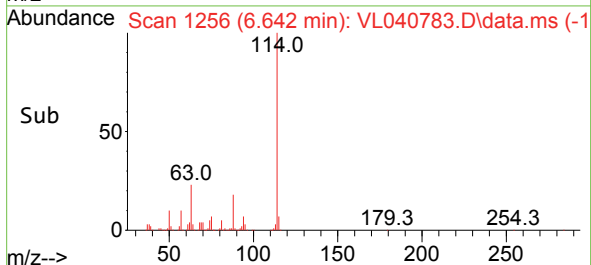
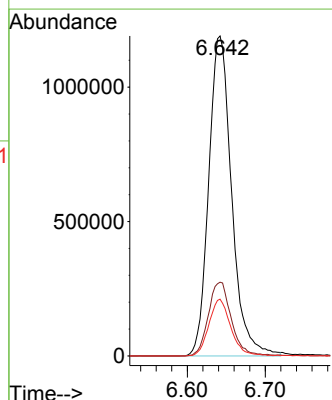
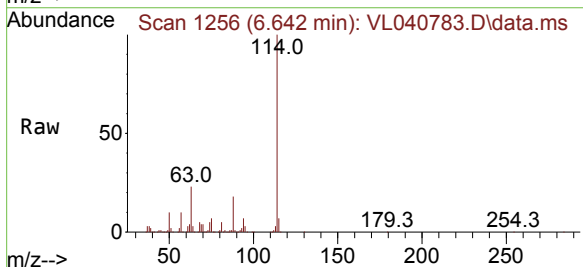
Instrument :
MSVOA_L
ClientSampleId :

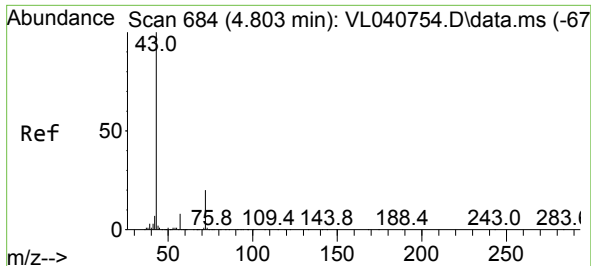
Tgt Ion: 57 Resp: 308051
Ion Ratio Lower Upper
57 100
41 91.7 71.4 107.2
43 75.5 182.3 273.5#
56 55.7 42.0 63.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.642 min Scan# 1256
Delta R.T. -0.026 min
Lab File: VL040783.D
Acq: 23 Oct 2023 17:57

Tgt Ion: 114 Resp: 2433763
Ion Ratio Lower Upper
114 100
63 23.3 19.8 29.6
88 17.1 14.2 21.2

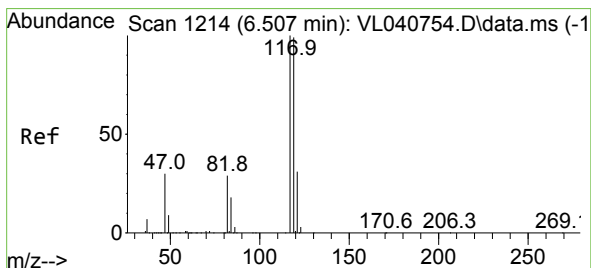
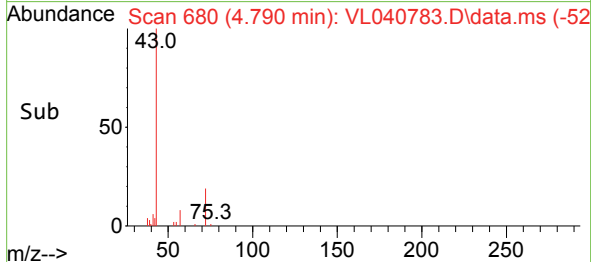
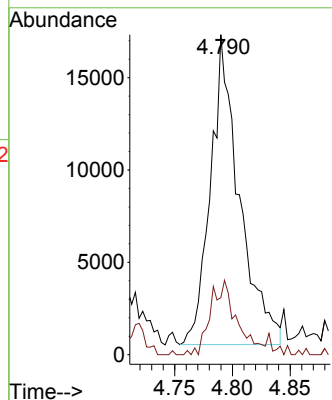
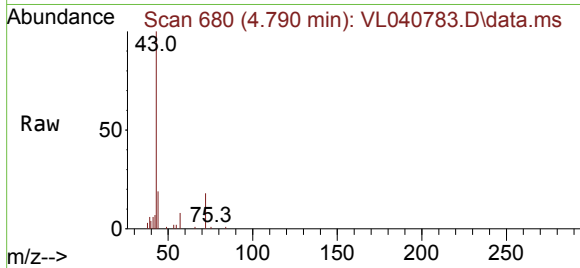




#34
2-Butanone
Concen: 0.264 ppbv
RT: 4.790 min Scan# 61
Delta R.T. -0.013 min
Lab File: VL040783.D
Acq: 23 Oct 2023 17:57

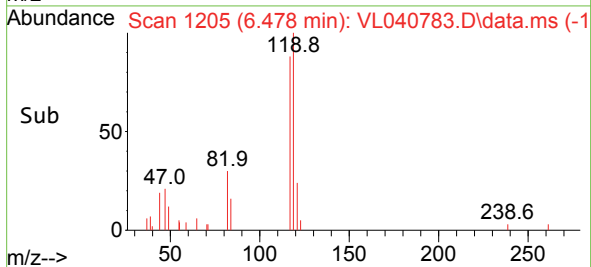
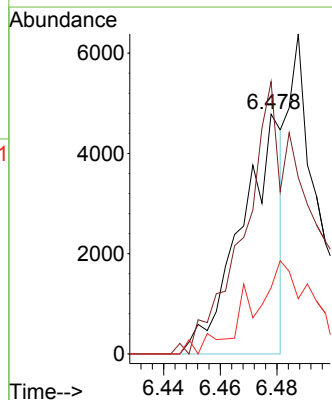
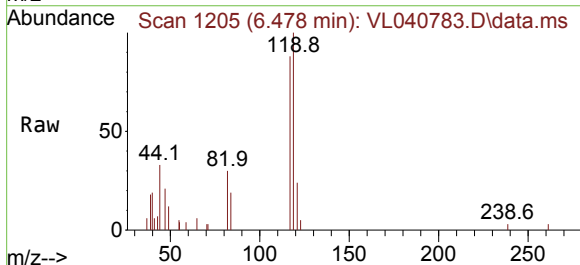
Instrument :
MSVOA_L
ClientSampleId :

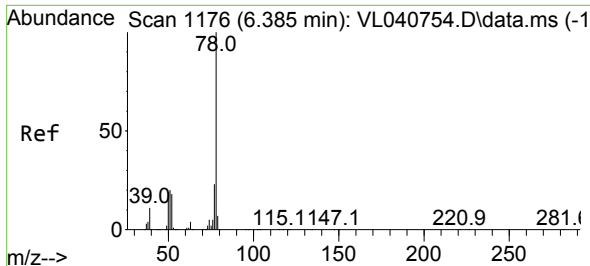
Tgt Ion: 43 Resp: 29100
Ion Ratio Lower Upper
43 100
72 23.4 16.8 25.2



#35
Carbon Tetrachloride
Concen: 0.035 ppbv
RT: 6.478 min Scan# 1205
Delta R.T. -0.029 min
Lab File: VL040783.D
Acq: 23 Oct 2023 17:57

Tgt Ion: 117 Resp: 4799
Ion Ratio Lower Upper
117 100
119 109.1 79.4 119.0
121 27.6 25.0 37.4

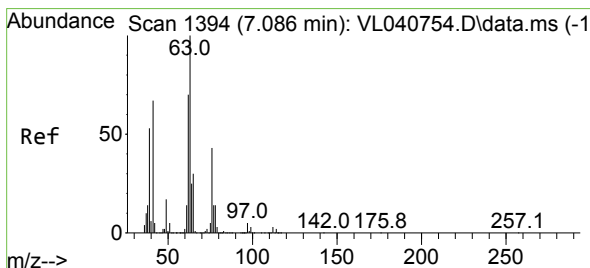
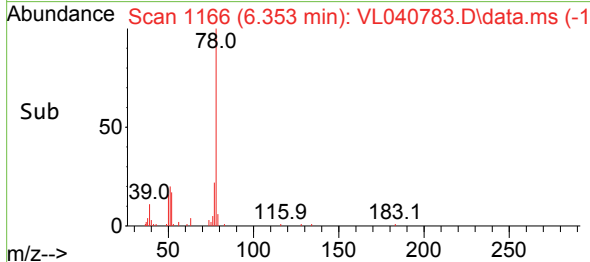
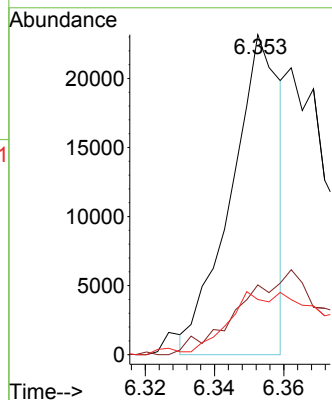
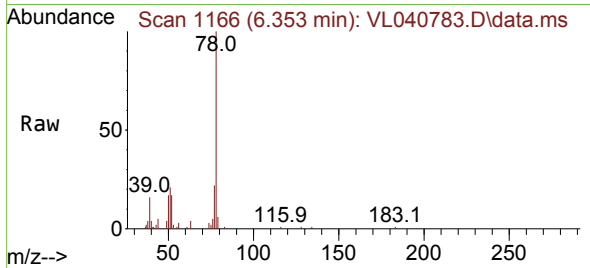




#36
Benzene
Concen: 0.121 ppbv
RT: 6.353 min Scan# 1176
Delta R.T. -0.032 min
Lab File: VL040783.D
Acq: 23 Oct 2023 17:57

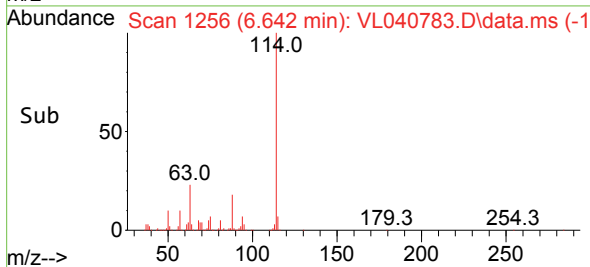
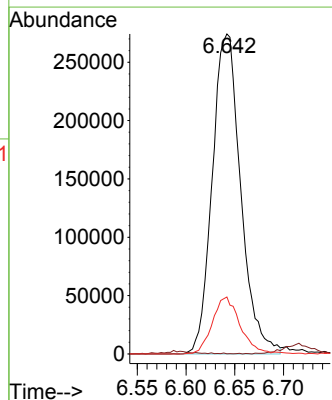
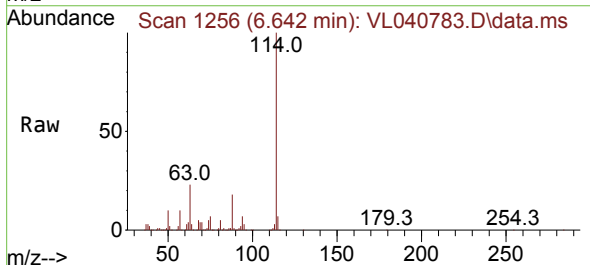
Instrument :
MSVOA_L
ClientSampleId :

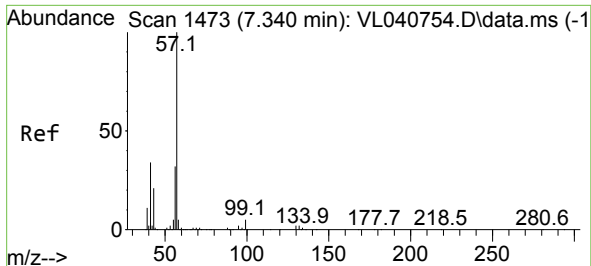
Tgt Ion: 78 Resp: 22721
Ion Ratio Lower Upper
78 100
77 21.7 18.4 27.6
50 17.4 15.0 22.4



#39
1,2-Dichloropropane
Concen: 7.616 ppbv
RT: 6.642 min Scan# 1256
Delta R.T. -0.444 min
Lab File: VL040783.D
Acq: 23 Oct 2023 17:57

Tgt Ion: 63 Resp: 556986
Ion Ratio Lower Upper
63 100
41 0.0 53.7 80.5#
62 17.8 55.7 83.5#

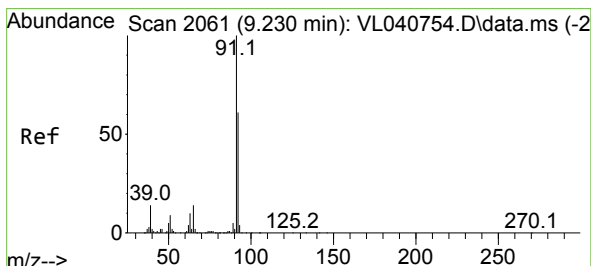
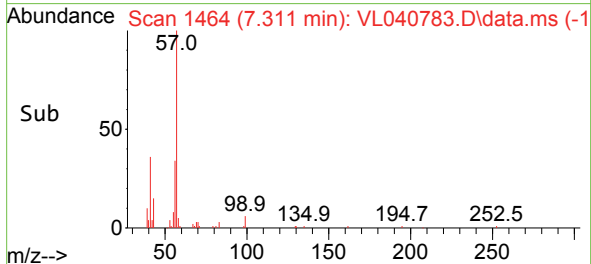
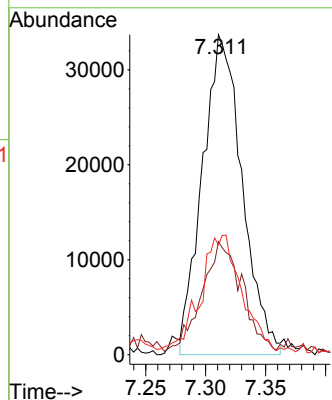
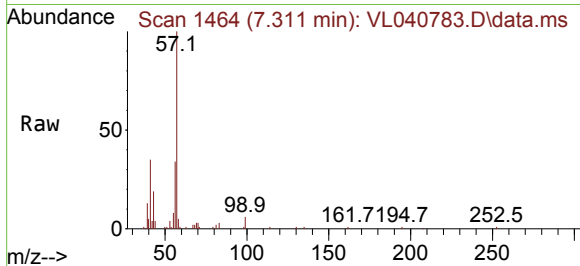




#44
 2,2,4-Trimethylpentane
 Concen: 0.246 ppbv
 RT: 7.311 min Scan# 1473
 Delta R.T. -0.029 min
 Lab File: VL040783.D
 Acq: 23 Oct 2023 17:57

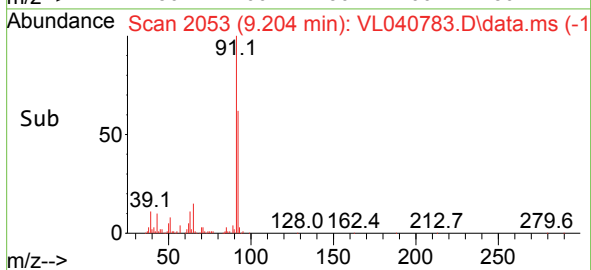
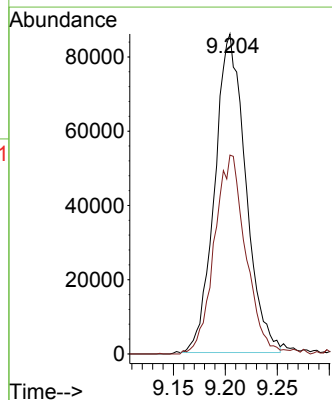
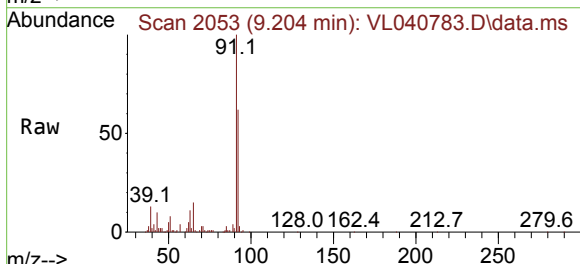
Instrument :
 MSVOA_L
 ClientSampleId :

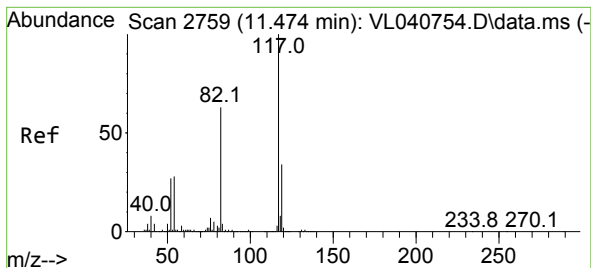
Tgt Ion: 57 Resp: 77739
 Ion Ratio Lower Upper
 57 100
 41 40.0 27.4 41.0
 56 40.9 25.0 37.6#



#53
 Toluene
 Concen: 0.798 ppbv
 RT: 9.204 min Scan# 2053
 Delta R.T. -0.026 min
 Lab File: VL040783.D
 Acq: 23 Oct 2023 17:57

Tgt Ion: 91 Resp: 177779
 Ion Ratio Lower Upper
 91 100
 92 64.2 50.2 75.2

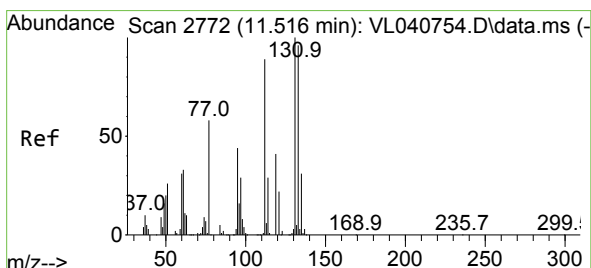
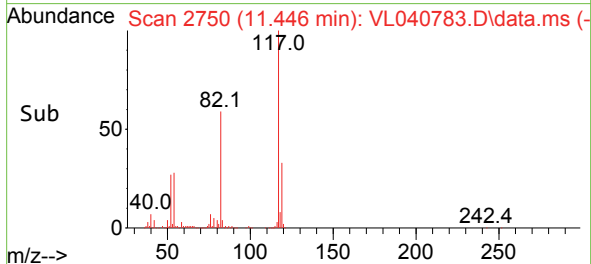
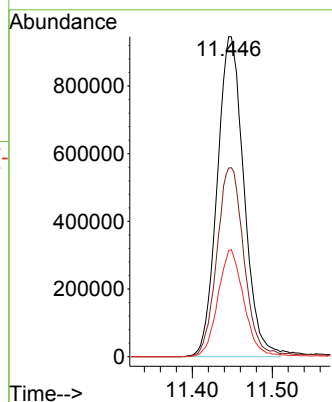
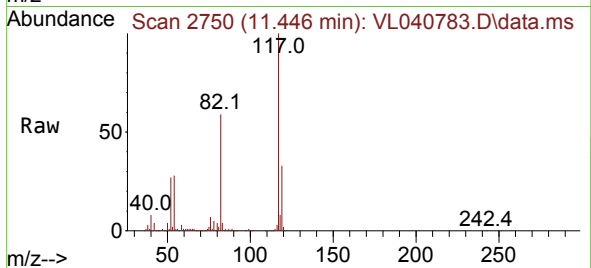




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.446 min Scan# 21
Delta R.T. -0.029 min
Lab File: VL040783.D
Acq: 23 Oct 2023 17:57

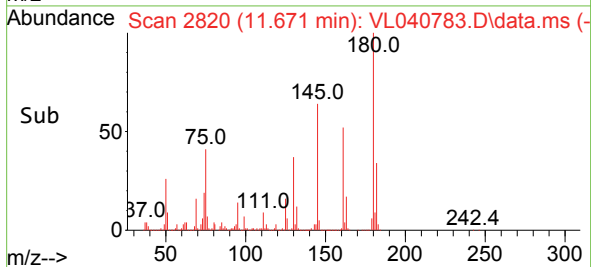
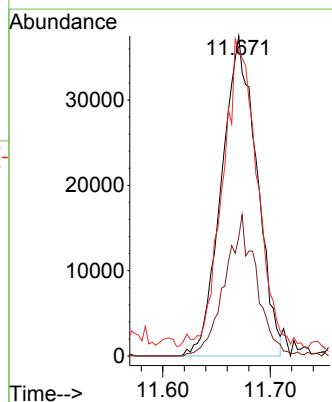
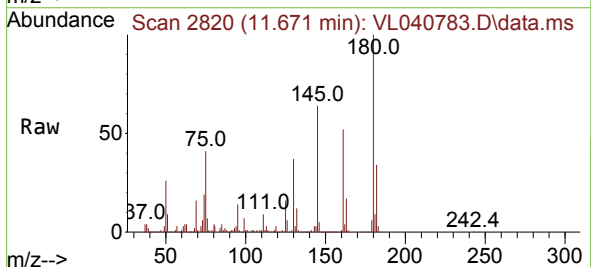
Instrument :
MSVOA_L
ClientSampleId :

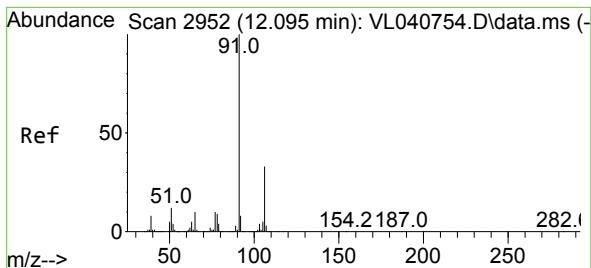
Tgt Ion:117 Resp: 2187535
Ion Ratio Lower Upper
117 100
82 61.4 46.6 70.0
119 33.0 26.0 39.0



#56
1,1,1,2-Tetrachloroethane
Concen: 0.956 ppbv
RT: 11.671 min Scan# 2820
Delta R.T. 0.154 min
Lab File: VL040783.D
Acq: 23 Oct 2023 17:57

Tgt Ion:131 Resp: 85373
Ion Ratio Lower Upper
131 100
133 39.6 75.0 112.6#
119 102.1 45.4 68.0#





#58

Ethyl Benzene

Concen: 0.171 ppbv

RT: 12.066 min Scan# 29

Delta R.T. -0.029 min

Lab File: VL040783.D

Acq: 23 Oct 2023 17:57

Instrument :

MSVOA_L

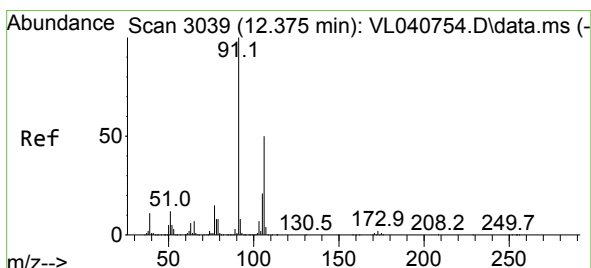
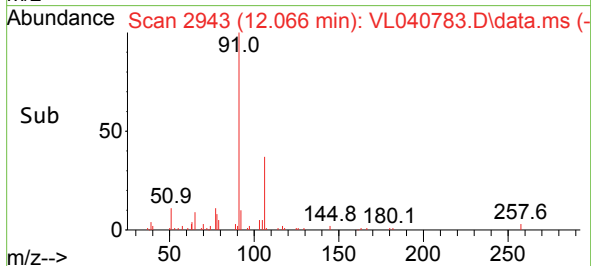
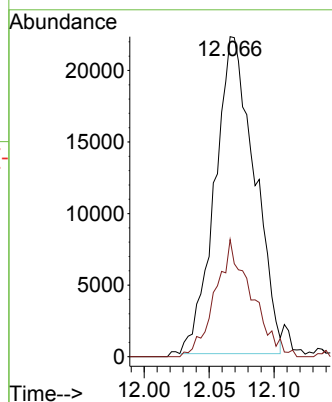
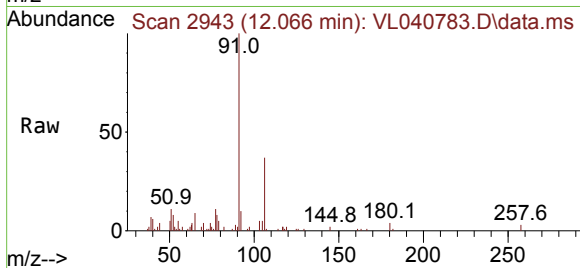
ClientSampleId :

Tgt Ion: 91 Resp: 47028

Ion Ratio Lower Upper

91 100

106 37.0 26.7 40.1



#59

m/p-Xylene

Concen: 0.117 ppbv

RT: 12.346 min Scan# 3030

Delta R.T. -0.029 min

Lab File: VL040783.D

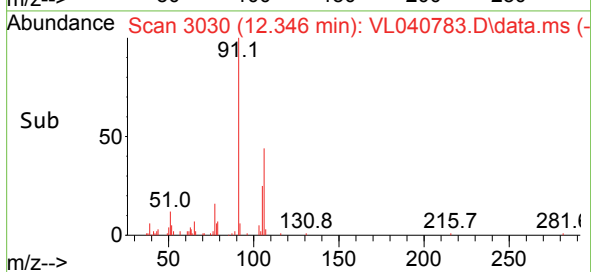
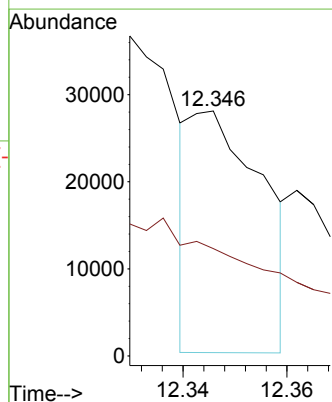
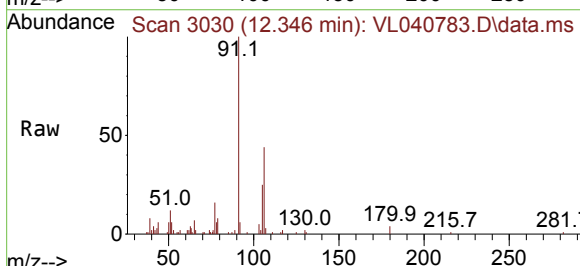
Acq: 23 Oct 2023 17:57

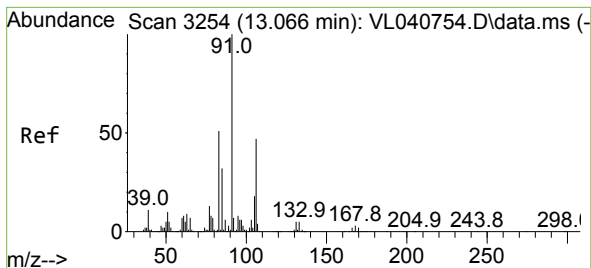
Tgt Ion: 91 Resp: 26526

Ion Ratio Lower Upper

91 100

106 0.0 37.7 56.5#

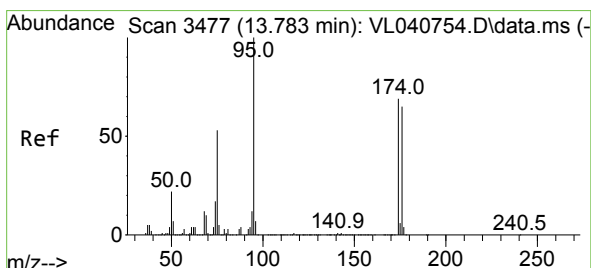
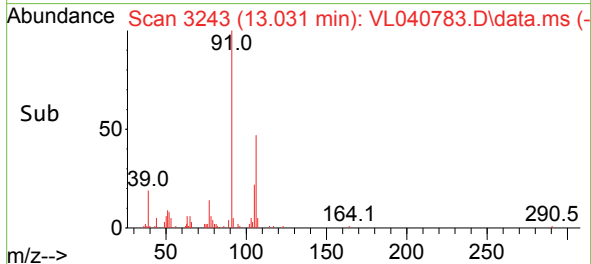
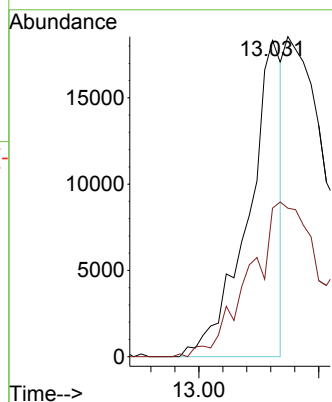
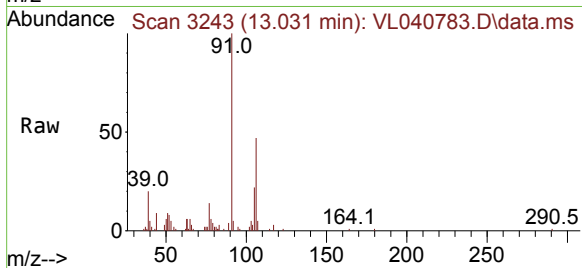




#60
o-Xylene
Concen: 0.083 ppbv
RT: 13.031 min Scan# 31
Delta R.T. -0.035 min
Lab File: VL040783.D
Acq: 23 Oct 2023 17:57

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 91 Resp: 17831
Ion Ratio Lower Upper
91 100
106 0.0 23.5 70.5#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.365 ppbv
RT: 13.754 min Scan# 3468
Delta R.T. -0.029 min
Lab File: VL040783.D
Acq: 23 Oct 2023 17:57

Tgt Ion: 95 Resp: 1668371
Ion Ratio Lower Upper
95 100
174 66.2 54.7 82.1
175 4.9 4.2 6.4

