

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122123\
 Data File : VL040930.D
 Acq On : 21 Dec 2023 15:13
 Operator : SY/MD
 Sample : 05813-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 10492

Quant Time: Dec 22 00:07:34 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 21 07:32:42 2023
 Response via : Initial Calibration

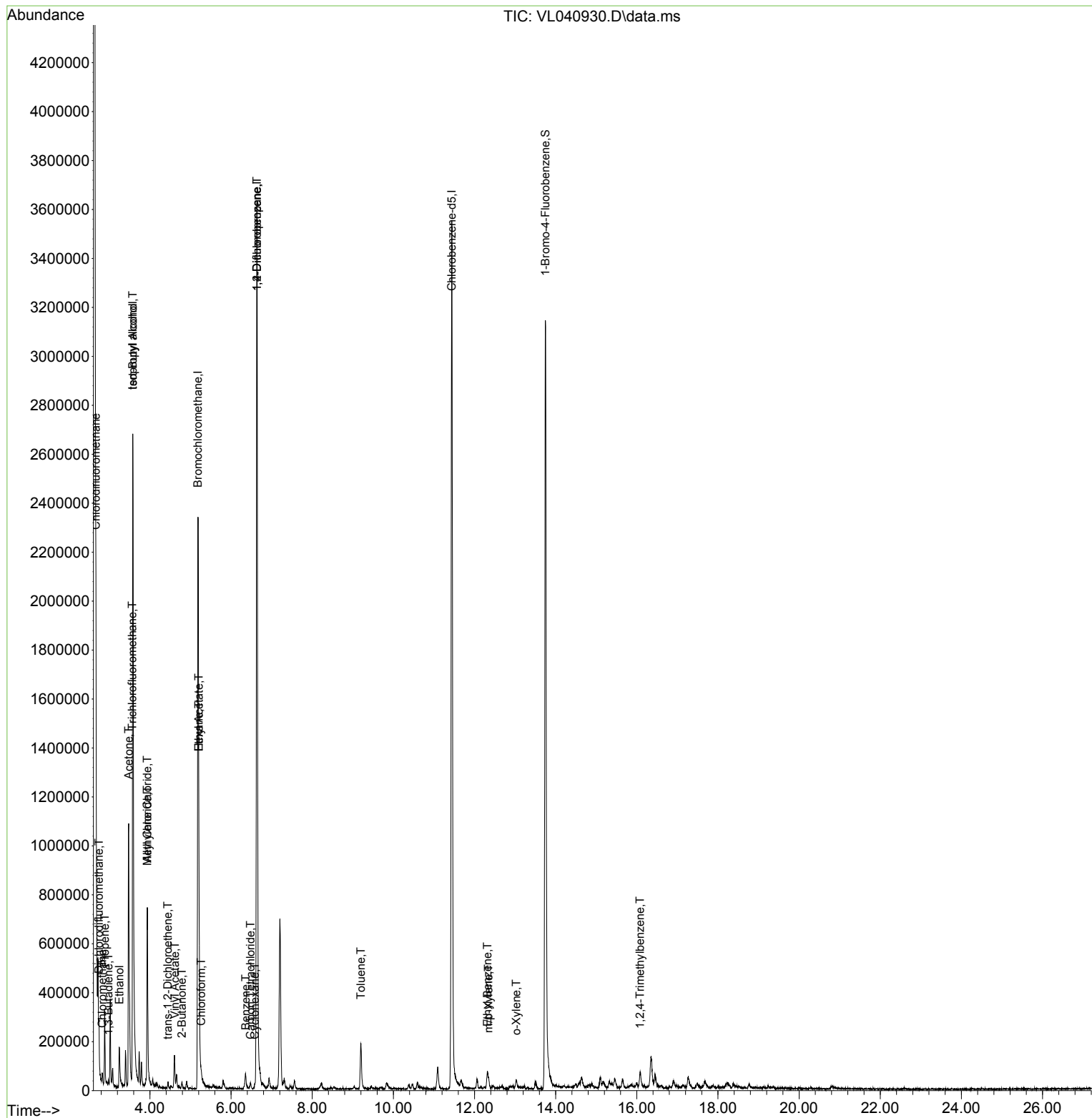
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.182	49	1094081	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	2732928	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.439	117	2287832	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.748	95	1682061	9.981	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.742	85	110639	0.531	ppbv	99
3) Chlorodifluoromethane	2.668	51	369656	2.245	ppbv #	64
4) Chloromethane	2.822	50	14495	0.239	ppbv #	84
9) Propene	2.886	41	71233	1.311	ppbv	97
11) Trichlorofluoromethane	3.568	101	37182	0.228	ppbv	88
13) Ethanol	3.250	45	166980	12.184	ppbv	100
15) Acetone	3.475	43	1125501	8.577	ppbv	98
16) 1,3-Butadiene	2.976	39	3253	0.058	ppbv	97
17) tert-Butyl alcohol	3.578	59	100981	1.040	ppbv	98
19) Isopropyl Alcohol	3.578	45	2886844	42.163	ppbv #	98
20) Methylene Chloride	3.938	84	238605	5.101	ppbv	93
21) Allyl Chloride	3.935	41	7406	0.095	ppbv #	18
22) trans-1,2-Dichloroethene	4.439	96	5687	0.095	ppbv #	62
23) Vinyl Acetate	4.613	43	15909	0.110	ppbv #	1
25) Ethyl Acetate	5.205	43	176302	0.775	ppbv #	81
26) Hexane	5.205	57	218397	2.167	ppbv #	43
29) Chloroform	5.266	83	7385	0.043	ppbv	85
30) Cyclohexane	6.584	84	3358	0.040	ppbv #	1
34) 2-Butanone	4.787	43	28304	0.196	ppbv #	85
35) Carbon Tetrachloride	6.481	117	5442	0.032	ppbv #	66
36) Benzene	6.359	78	41693	0.195	ppbv #	87
39) 1,2-Dichloropropane	6.639	63	680988	8.111	ppbv #	24
53) Toluene	9.201	91	65877	0.278	ppbv #	20
58) Ethyl Benzene	12.317	91	31307	0.107	ppbv	90
59) m/p-Xylene	12.343	91	16422	0.066	ppbv #	100
60) o-Xylene	13.031	91	17356	0.074	ppbv	66
74) 1,2,4-Trimethylbenzene	16.079	105	9647	0.039	ppbv #	42

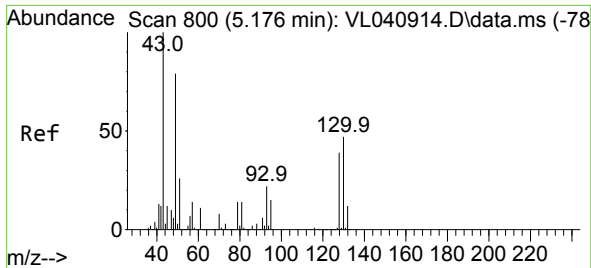
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122123\
Data File : VL040930.D
Acq On : 21 Dec 2023 15:13
Operator : SY/MD
Sample : 05813-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
10492

Quant Time: Dec 22 00:07:34 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Dec 21 07:32:42 2023
Response via : Initial Calibration

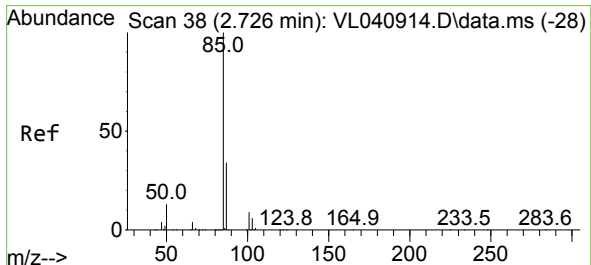
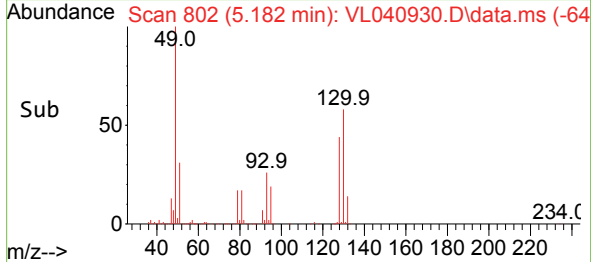
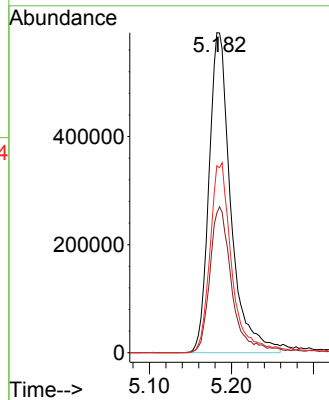
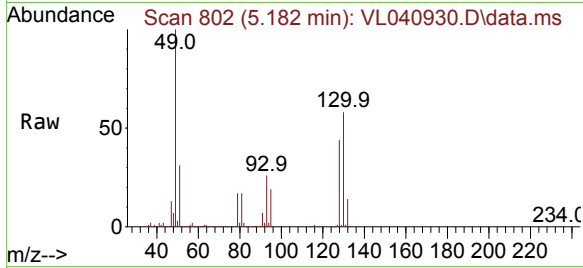




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.182 min Scan# 80
 Delta R.T. 0.006 min
 Lab File: VL040930.D
 Acq: 21 Dec 2023 15:13

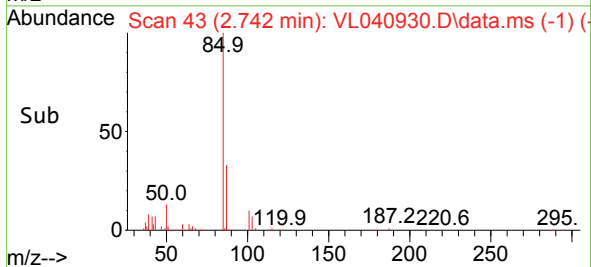
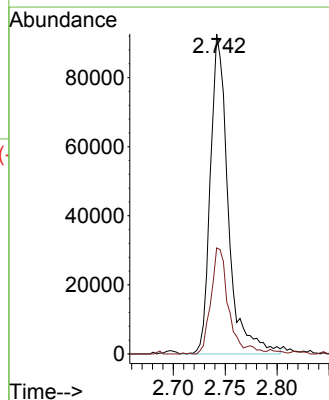
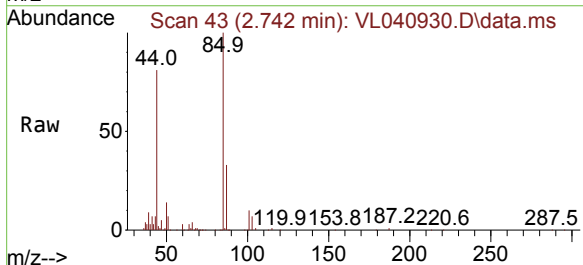
Instrument :
 MSVOA_L
 ClientSampleId :
 10492

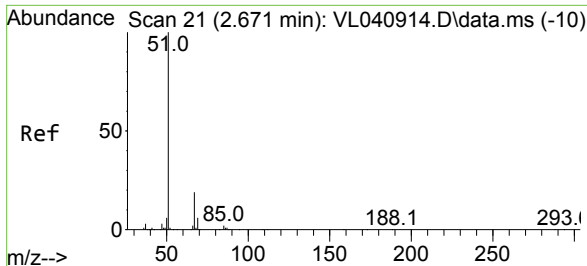
Tgt Ion: 49 Resp: 1094081
 Ion Ratio Lower Upper
 49 100
 128 47.0 23.8 71.2
 130 60.6 30.1 90.5



#2
 Dichlorodifluoromethane
 Concen: 0.531 ppbv
 RT: 2.742 min Scan# 43
 Delta R.T. 0.016 min
 Lab File: VL040930.D
 Acq: 21 Dec 2023 15:13

Tgt Ion: 85 Resp: 110639
 Ion Ratio Lower Upper
 85 100
 87 33.2 27.0 40.6

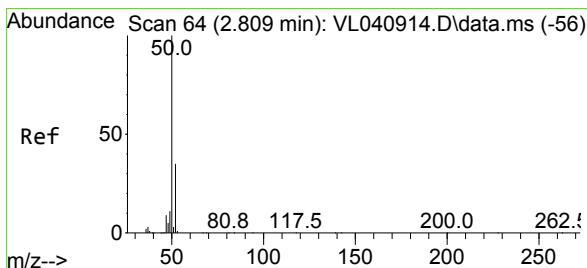
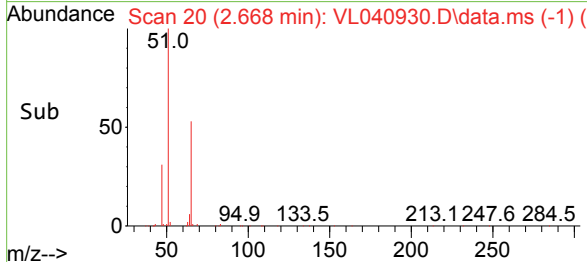
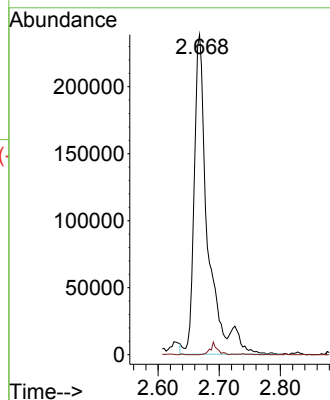
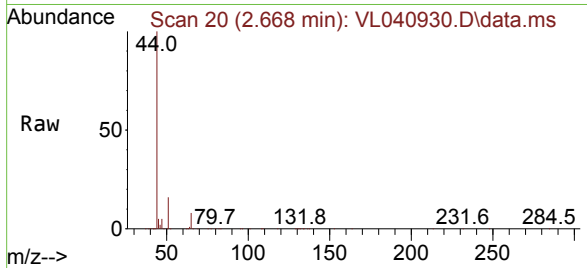




#3
Chlorodifluoromethane
Concen: 2.245 ppbv
RT: 2.668 min Scan# 20
Delta R.T. -0.003 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

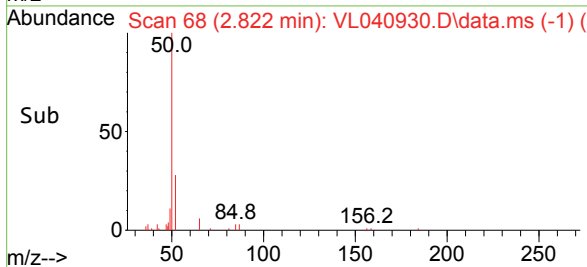
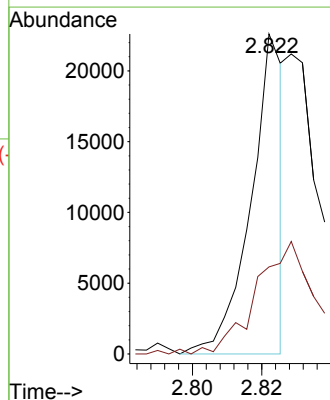
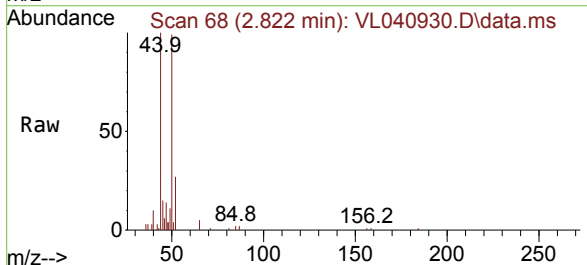
Instrument :
MSVOA_L
ClientSampleId :
10492

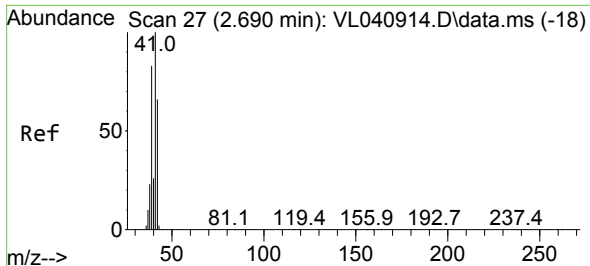
Tgt Ion: 51 Resp: 369656
Ion Ratio Lower Upper
51 100
67 2.2 14.7 22.1#



#4
Chloromethane
Concen: 0.239 ppbv
RT: 2.822 min Scan# 68
Delta R.T. 0.013 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

Tgt Ion: 50 Resp: 14495
Ion Ratio Lower Upper
50 100
52 25.7 28.0 42.0#

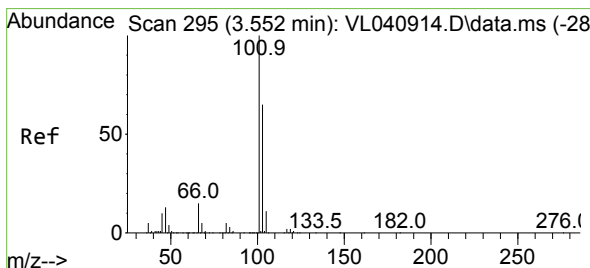
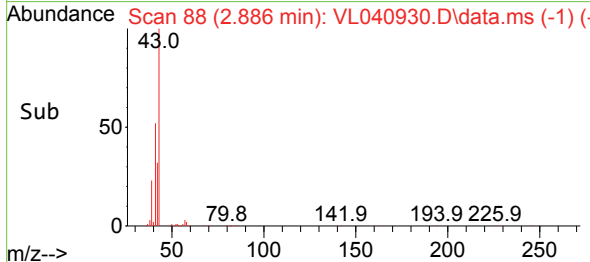
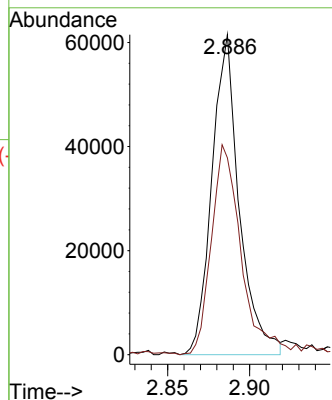
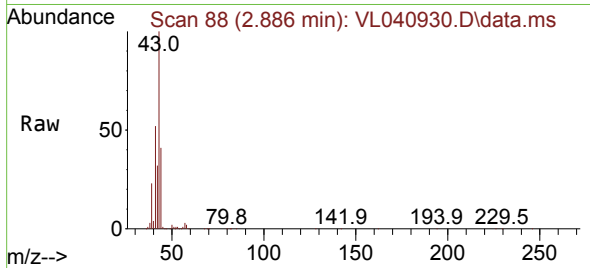




#9
 Propene
 Concen: 1.311 ppbv
 RT: 2.886 min Scan# 81
 Delta R.T. 0.196 min
 Lab File: VL040930.D
 Acq: 21 Dec 2023 15:13

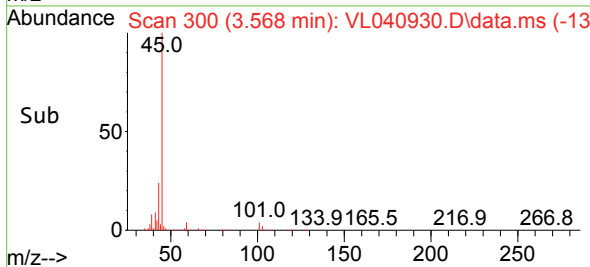
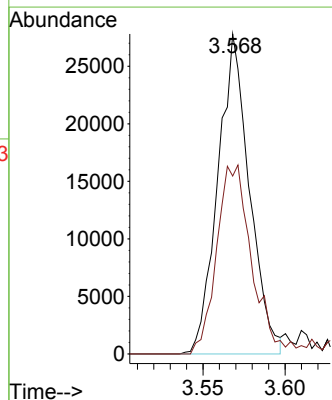
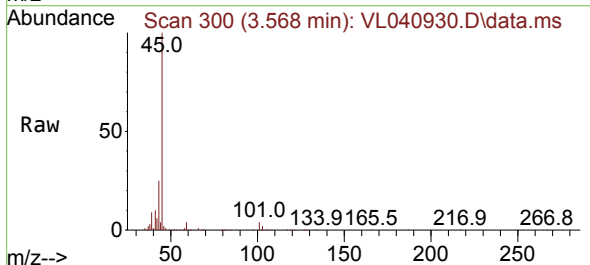
Instrument :
 MSVOA_L
 ClientSampleId :
 10492

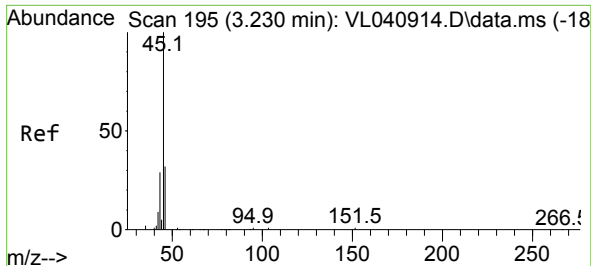
Tgt Ion: 41 Resp: 71233
 Ion Ratio Lower Upper
 41 100
 42 72.3 55.8 83.6



#11
 Trichlorofluoromethane
 Concen: 0.228 ppbv
 RT: 3.568 min Scan# 300
 Delta R.T. 0.016 min
 Lab File: VL040930.D
 Acq: 21 Dec 2023 15:13

Tgt Ion: 101 Resp: 37182
 Ion Ratio Lower Upper
 101 100
 103 55.6 51.9 77.9

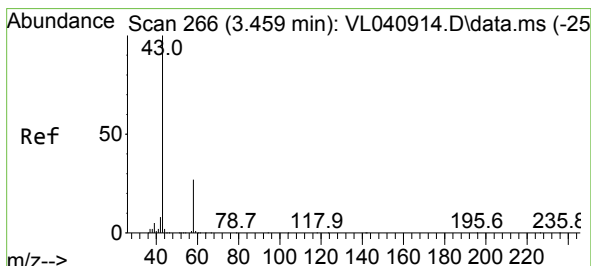
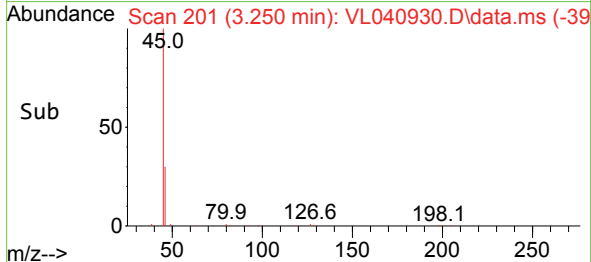
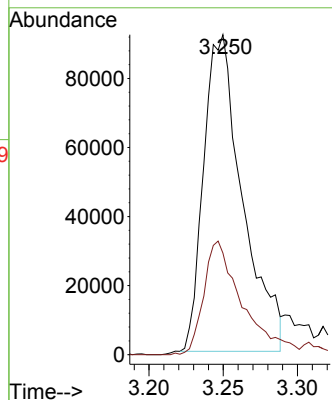
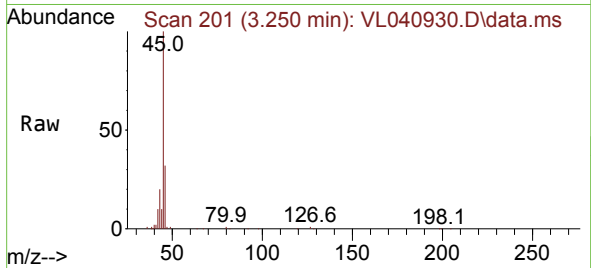




#13
Ethanol
Concen: 12.184 ppbv
RT: 3.250 min Scan# 201
Delta R.T. 0.019 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

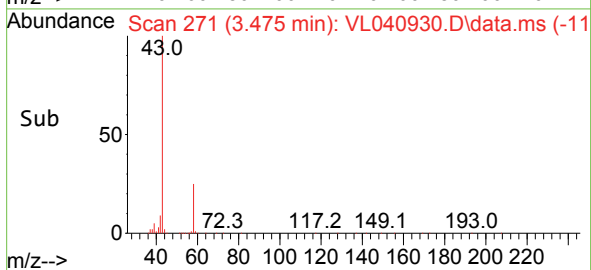
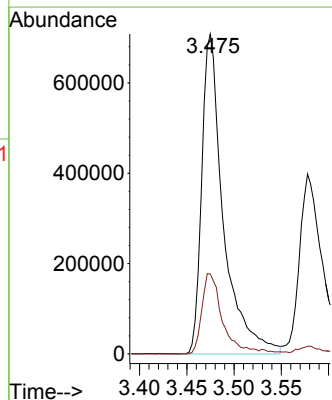
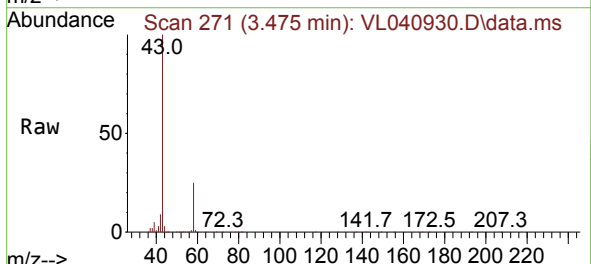
Instrument :
MSVOA_L
ClientSampleId :
10492

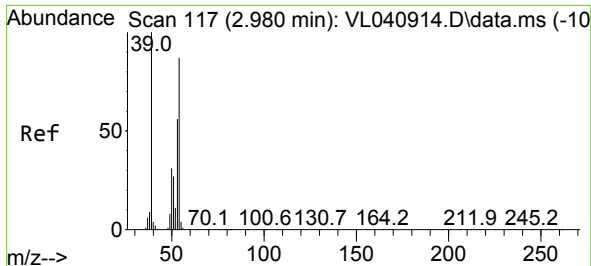
Tgt Ion: 45 Resp: 166980
Ion Ratio Lower Upper
45 100
46 37.6 15.0 60.0



#15
Acetone
Concen: 8.577 ppbv
RT: 3.475 min Scan# 271
Delta R.T. 0.016 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

Tgt Ion: 43 Resp: 1125501
Ion Ratio Lower Upper
43 100
58 24.5 20.6 30.8

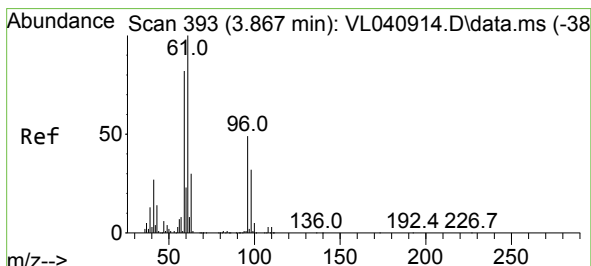
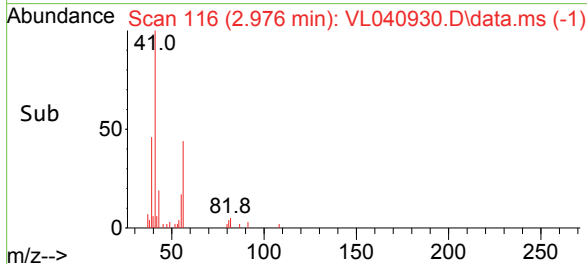
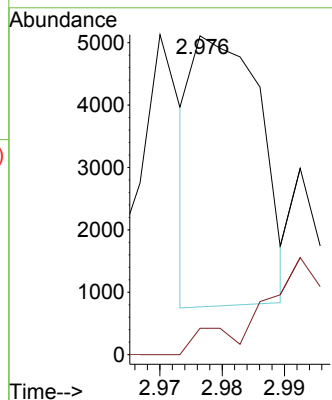
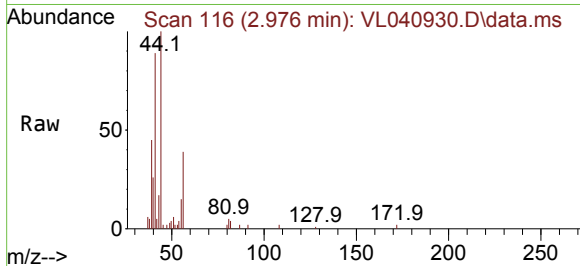




#16
1,3-Butadiene
Concen: 0.058 ppbv
RT: 2.976 min Scan# 117
Delta R.T. -0.003 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

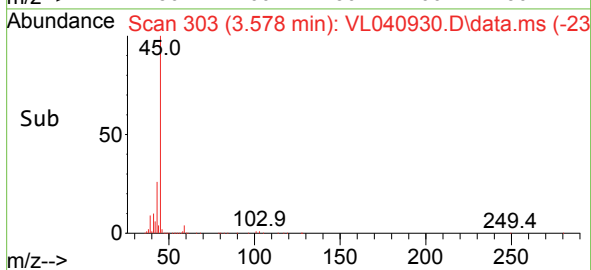
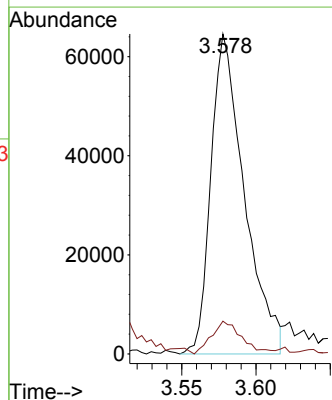
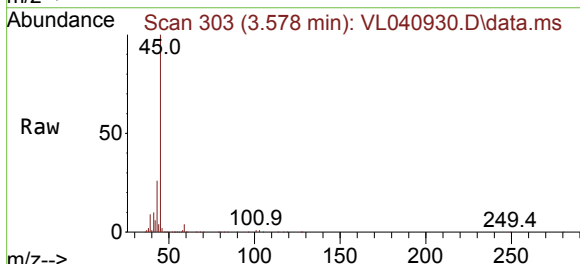
Instrument :
MSVOA_L
ClientSampleId :
10492

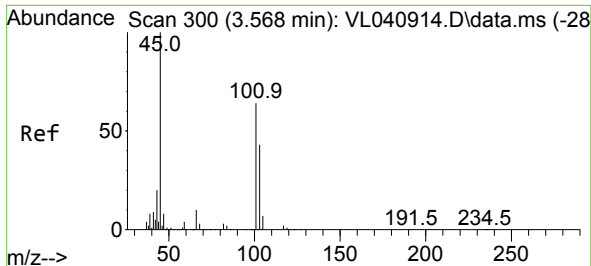
Tgt Ion: 39 Resp: 3253
Ion Ratio Lower Upper
39 100
54 77.3 63.8 95.6



#17
tert-Butyl alcohol
Concen: 1.040 ppbv
RT: 3.578 min Scan# 303
Delta R.T. -0.289 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

Tgt Ion: 59 Resp: 100981
Ion Ratio Lower Upper
59 100
57 9.7 8.3 12.5

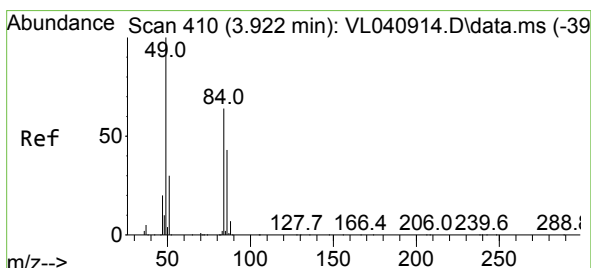
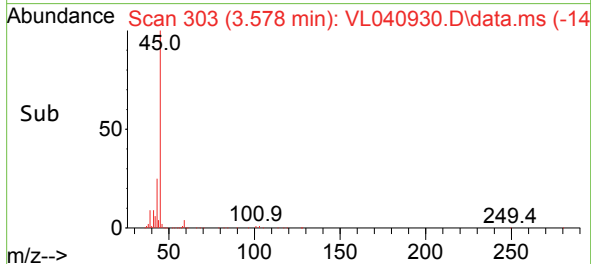
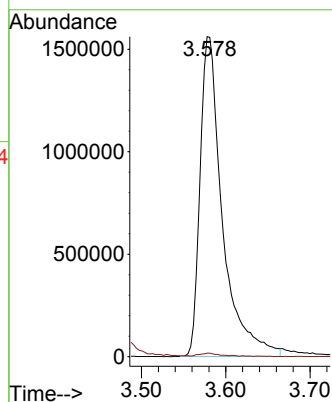
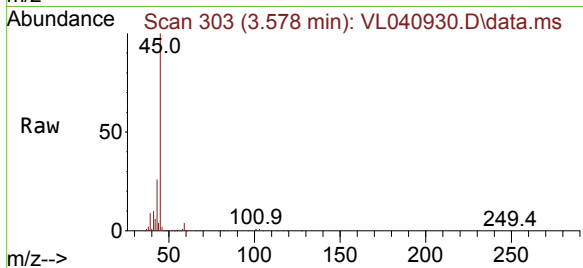




#19
Isopropyl Alcohol
Concen: 42.163 ppbv
RT: 3.578 min Scan# 300
Delta R.T. 0.010 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

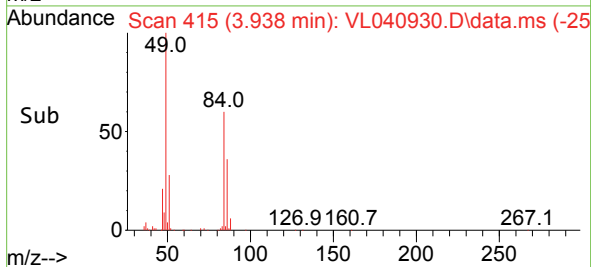
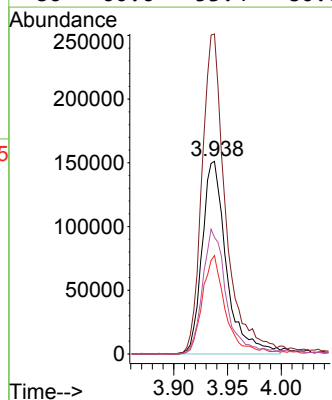
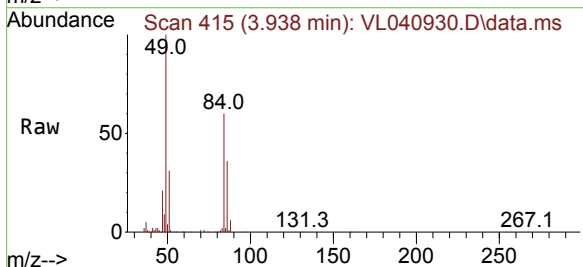
Instrument :
MSVOA_L
ClientSampleId :
10492

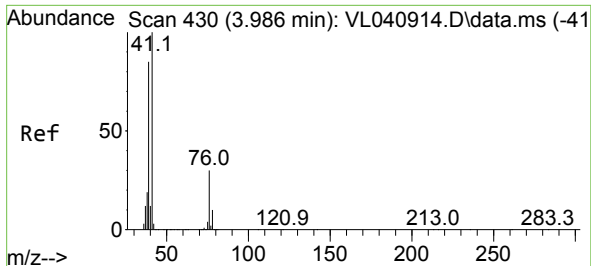
Tgt Ion: 45 Resp: 2886844
Ion Ratio Lower Upper
45 100
58 1.3 1.5 2.3#



#20
Methylene Chloride
Concen: 5.101 ppbv
RT: 3.938 min Scan# 415
Delta R.T. 0.016 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

Tgt Ion: 84 Resp: 238605
Ion Ratio Lower Upper
84 100
49 165.4 124.6 187.0
51 50.8 37.2 55.8
86 60.6 53.4 80.0

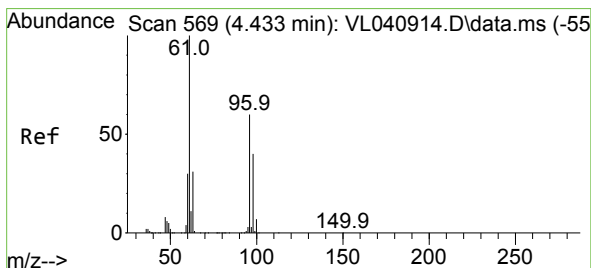
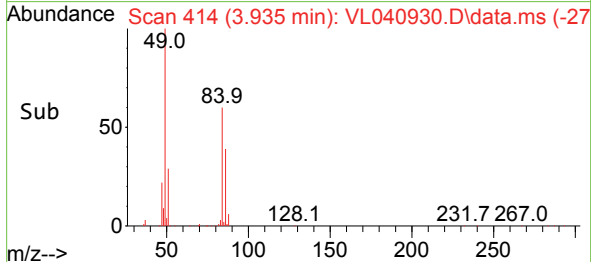
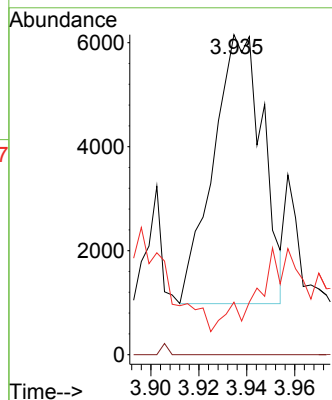
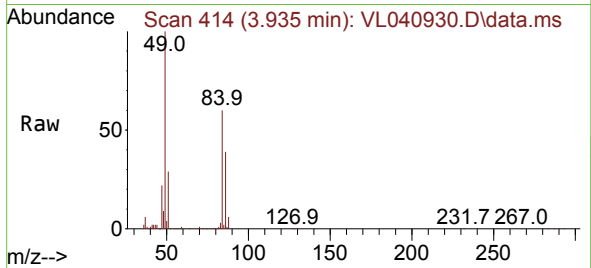




#21
 Allyl Chloride
 Concen: 0.095 ppbv
 RT: 3.935 min Scan# 41
 Delta R.T. -0.051 min
 Lab File: VL040930.D
 Acq: 21 Dec 2023 15:13

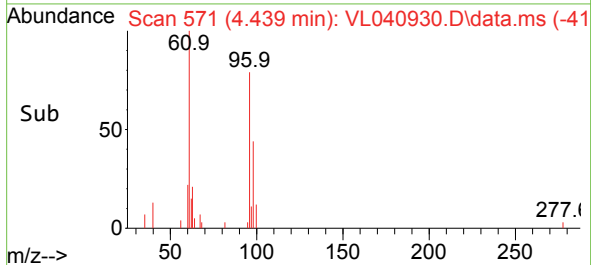
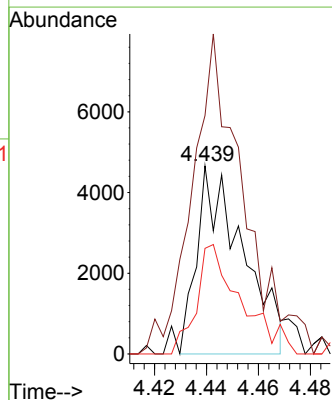
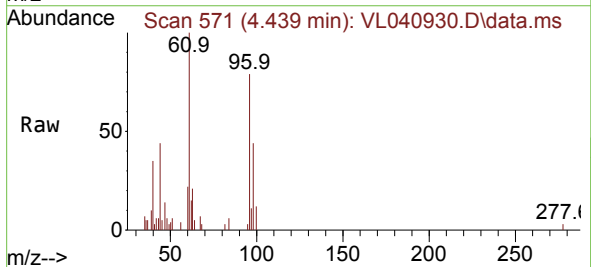
Instrument :
 MSVOA_L
 ClientSampleId :
 10492

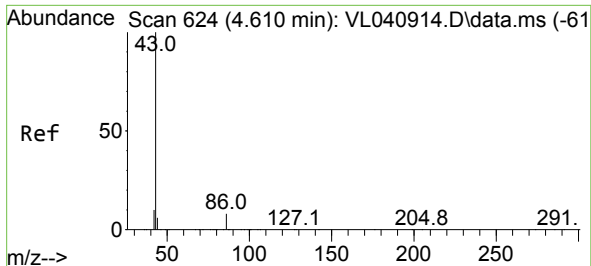
Tgt Ion: 41 Resp: 7406
 Ion Ratio Lower Upper
 41 100
 76 1.9 23.9 35.9#
 39 0.0 66.5 99.7#



#22
 trans-1,2-Dichloroethene
 Concen: 0.095 ppbv
 RT: 4.439 min Scan# 571
 Delta R.T. 0.007 min
 Lab File: VL040930.D
 Acq: 21 Dec 2023 15:13

Tgt Ion: 96 Resp: 5687
 Ion Ratio Lower Upper
 96 100
 61 109.6 133.0 199.6#
 98 44.2 53.7 80.5#



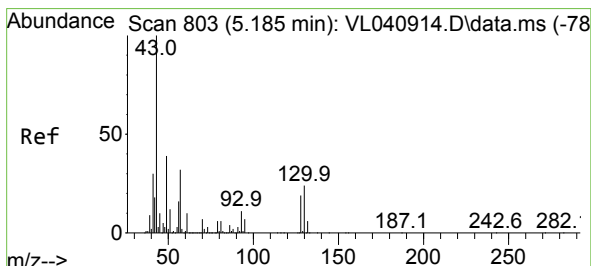
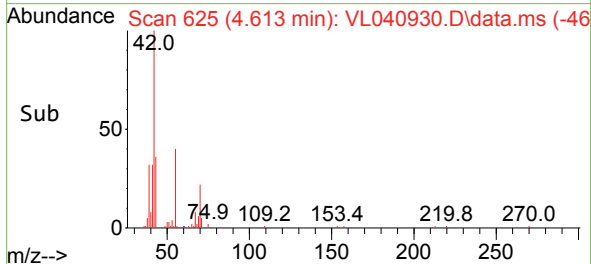
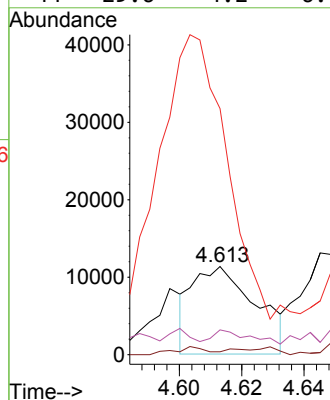
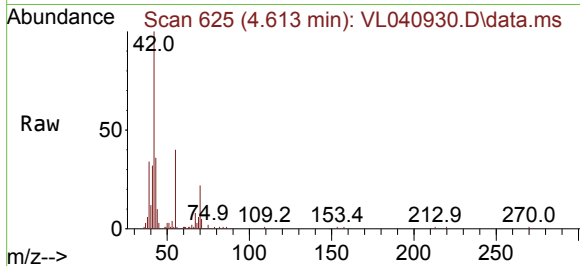


#23
Vinyl Acetate
Concen: 0.110 ppbv
RT: 4.613 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

Instrument :
MSVOA_L
ClientSampleId :
10492

Tgt Ion: 43 Resp: 15909

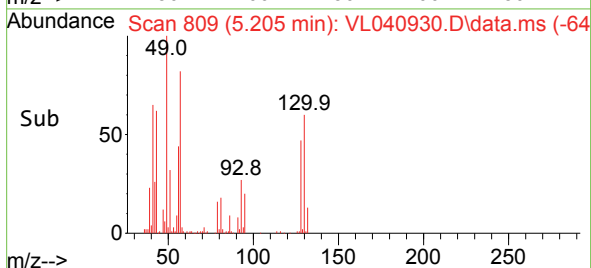
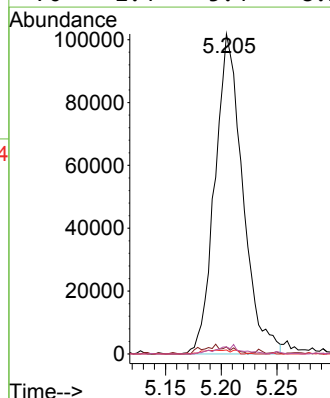
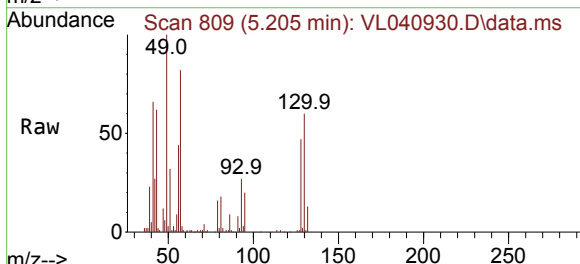
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.5	8.3#
42	411.5	8.4	12.6#
44	29.6	4.2	6.4#

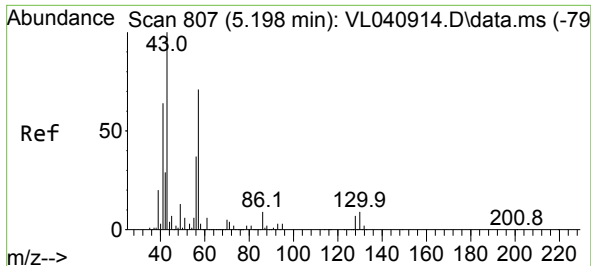


#25
Ethyl Acetate
Concen: 0.775 ppbv
RT: 5.205 min Scan# 809
Delta R.T. 0.019 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

Tgt Ion: 43 Resp: 176302

Ion	Ratio	Lower	Upper
43	100		
45	3.0	8.2	12.2#
61	1.4	7.6	11.4#
70	2.4	5.4	8.2#

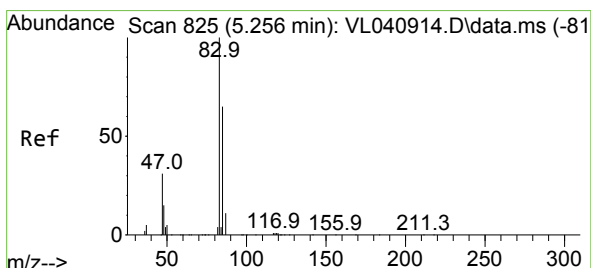
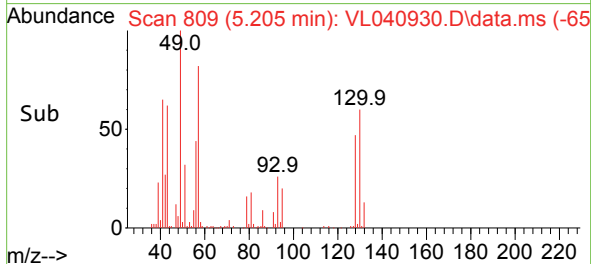
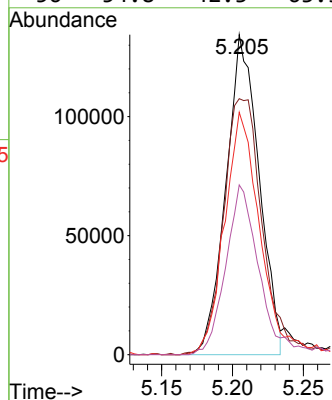
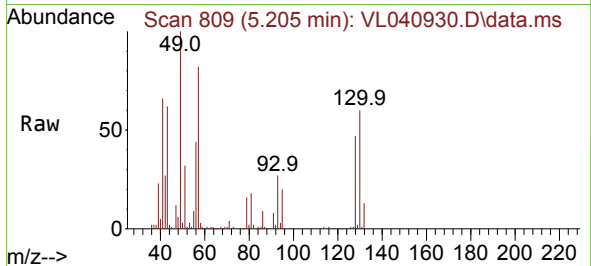




#26
Hexane
Concen: 2.167 ppbv
RT: 5.205 min Scan# 807
Delta R.T. 0.007 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

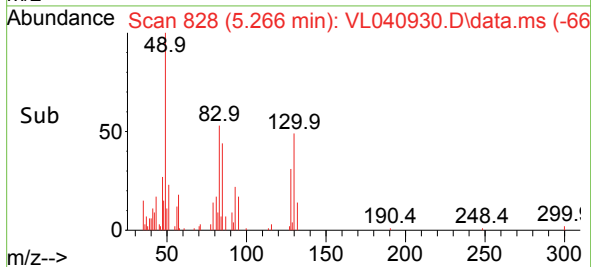
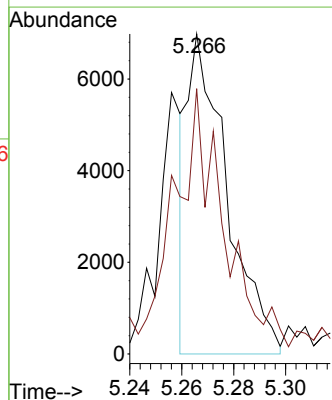
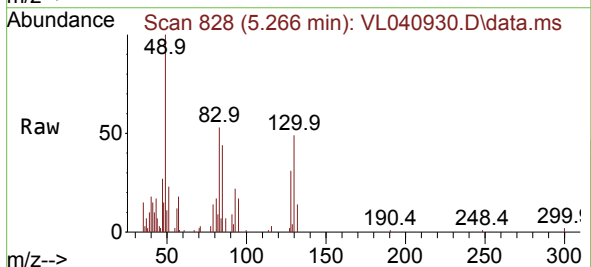
Instrument :
MSVOA_L
ClientSampleId :
10492

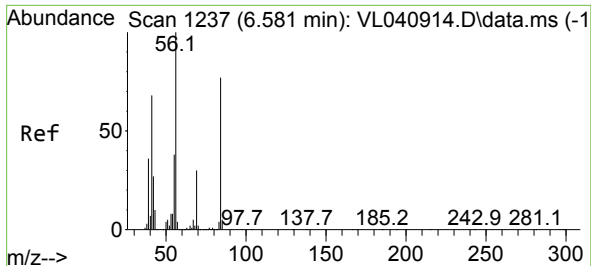
Tgt Ion: 57 Resp: 218397
Ion Ratio Lower Upper
57 100
41 95.1 75.2 112.8
43 81.9 188.0 282.0#
56 54.8 42.3 63.5



#29
Chloroform
Concen: 0.043 ppbv
RT: 5.266 min Scan# 828
Delta R.T. 0.010 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

Tgt Ion: 83 Resp: 7385
Ion Ratio Lower Upper
83 100
85 77.0 52.3 78.5

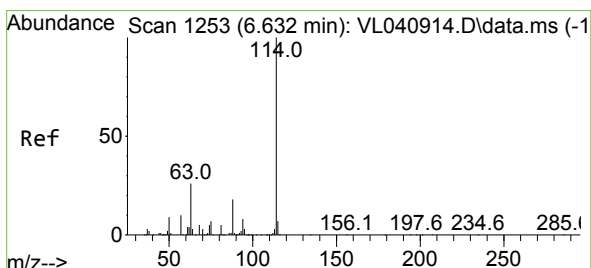
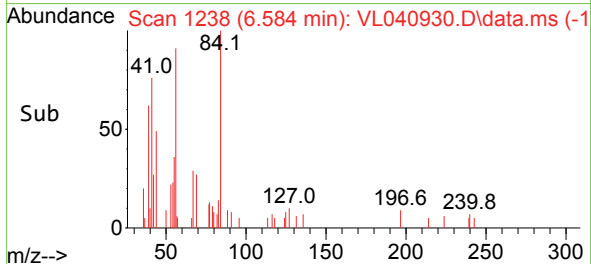
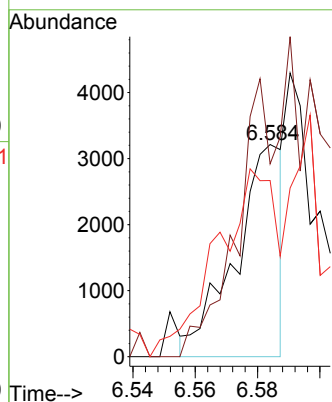
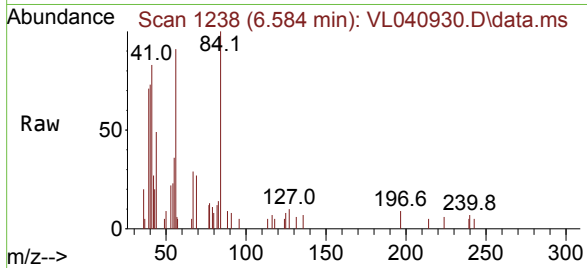




#30
Cyclohexane
Concen: 0.040 ppbv
RT: 6.584 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

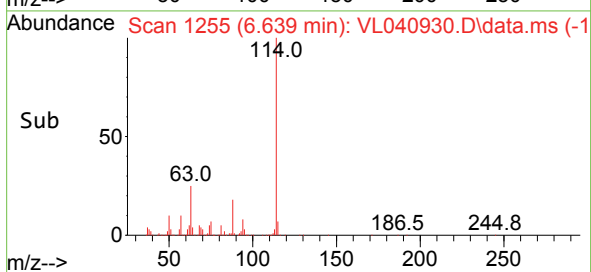
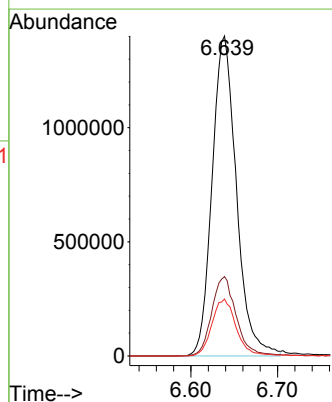
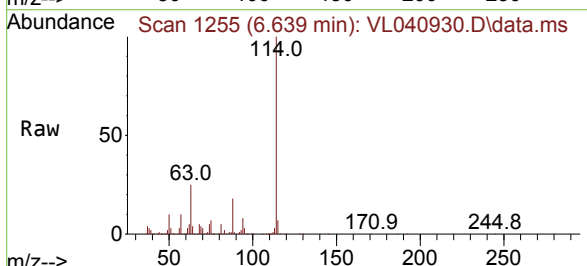
Instrument :
MSVOA_L
ClientSampleId :
10492

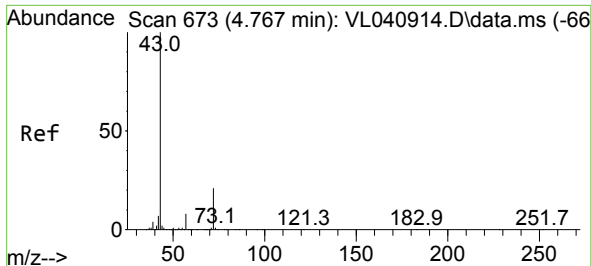
Tgt Ion: 84 Resp: 3358
Ion Ratio Lower Upper
84 100
56 0.0 111.4 167.2#
41 0.0 70.0 105.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.639 min Scan# 1255
Delta R.T. 0.006 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

Tgt Ion: 114 Resp: 2732928
Ion Ratio Lower Upper
114 100
63 25.2 21.0 31.6
88 17.9 14.3 21.5

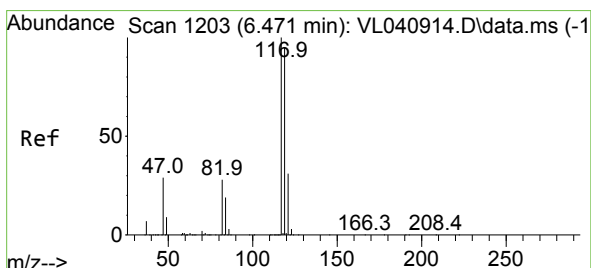
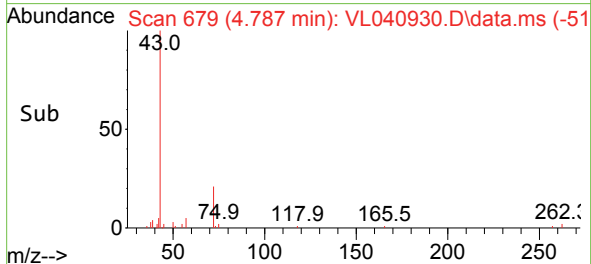
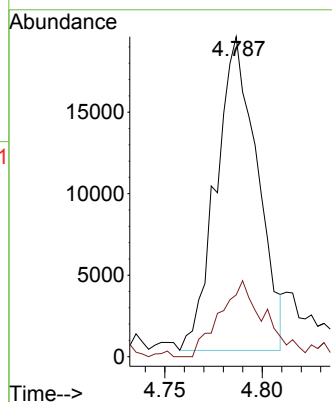
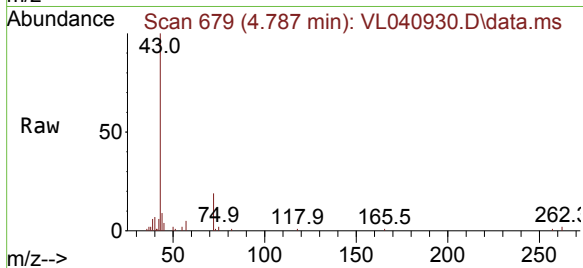




#34
2-Butanone
Concen: 0.196 ppbv
RT: 4.787 min Scan# 61
Delta R.T. 0.019 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

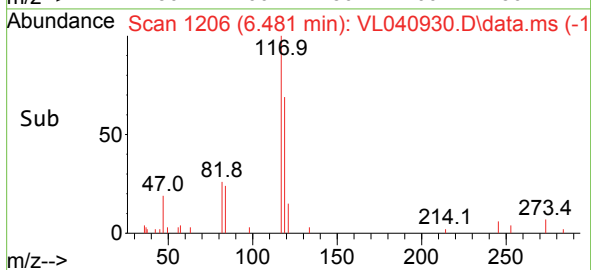
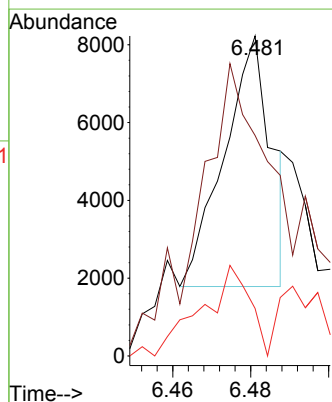
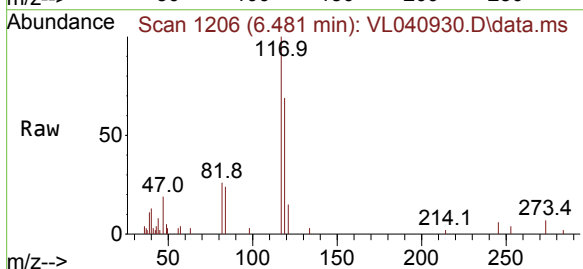
Instrument :
MSVOA_L
ClientSampleId :
10492

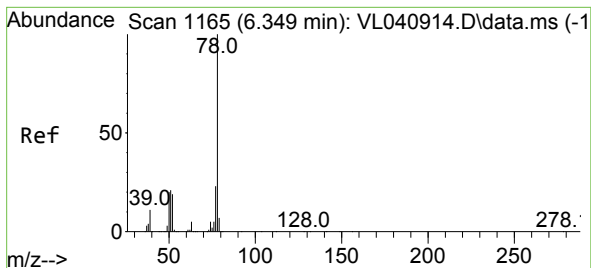
Tgt Ion: 43 Resp: 28304
Ion Ratio Lower Upper
43 100
72 28.5 17.2 25.8#



#35
Carbon Tetrachloride
Concen: 0.032 ppbv
RT: 6.481 min Scan# 1206
Delta R.T. 0.010 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

Tgt Ion: 117 Resp: 5442
Ion Ratio Lower Upper
117 100
119 67.2 76.3 114.5#
121 4.5 24.9 37.3#





#36

Benzene

Concen: 0.195 ppbv

RT: 6.359 min Scan# 1165

Delta R.T. 0.010 min

Lab File: VL040930.D

Acq: 21 Dec 2023 15:13

Instrument :

MSVOA_L

ClientSampleId :

10492

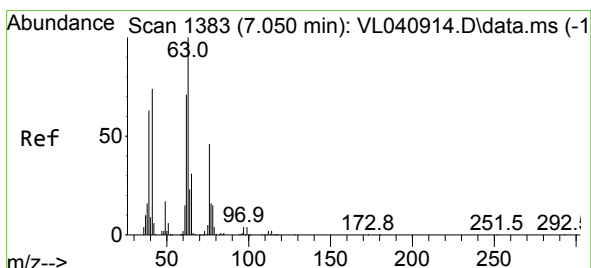
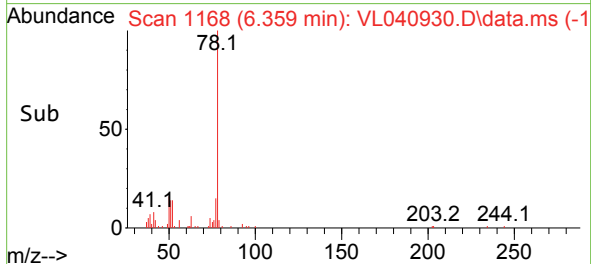
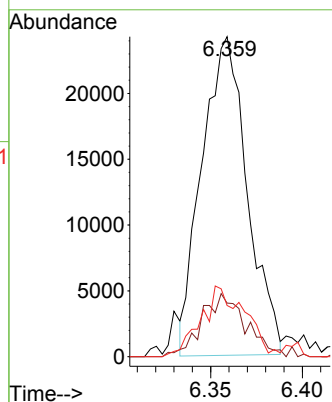
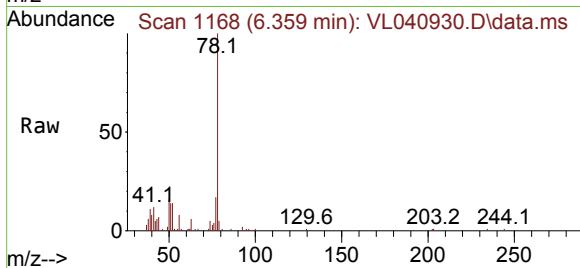
Tgt Ion: 78 Resp: 41693

Ion Ratio Lower Upper

78 100

77 15.3 18.4 27.6#

50 15.5 16.0 24.0#



#39

1,2-Dichloropropane

Concen: 8.111 ppbv

RT: 6.639 min Scan# 1255

Delta R.T. -0.411 min

Lab File: VL040930.D

Acq: 21 Dec 2023 15:13

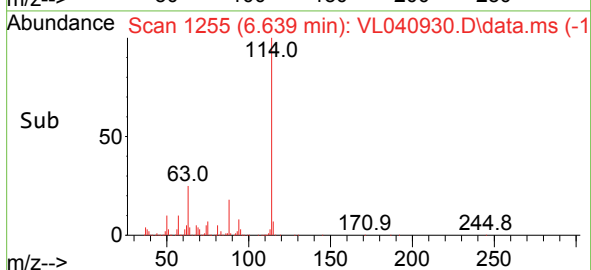
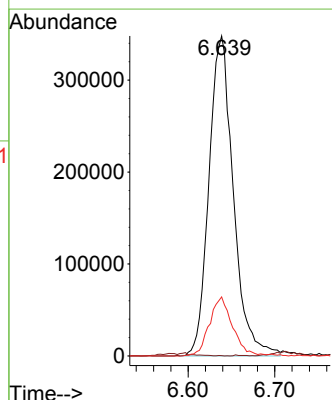
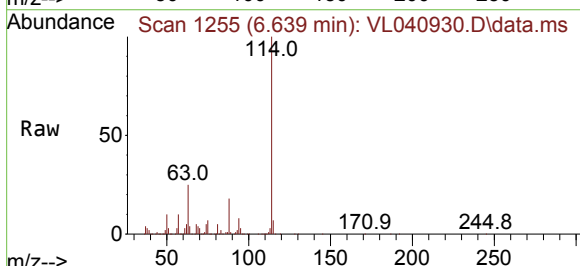
Tgt Ion: 63 Resp: 680988

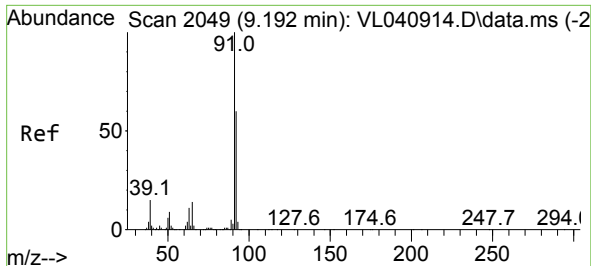
Ion Ratio Lower Upper

63 100

41 0.0 59.0 88.6#

62 18.4 56.6 85.0#

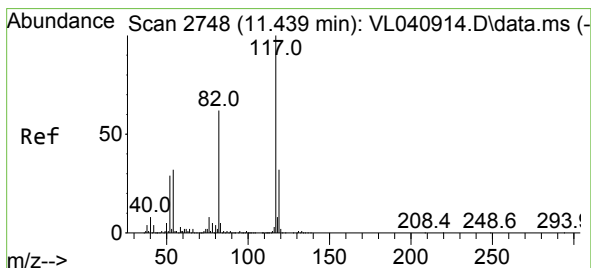
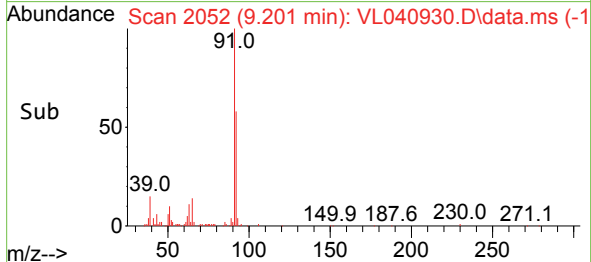
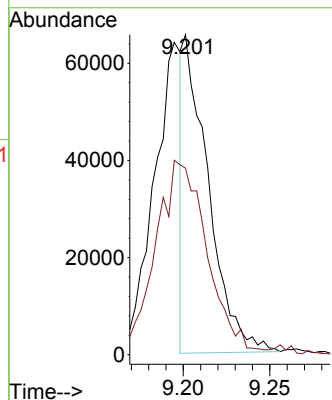
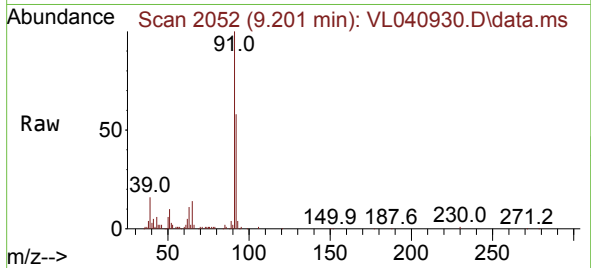




#53
Toluene
Concen: 0.278 ppbv
RT: 9.201 min Scan# 2049
Delta R.T. 0.010 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

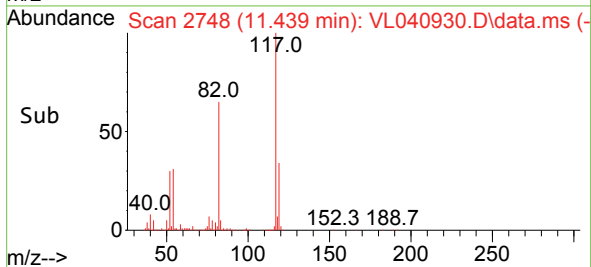
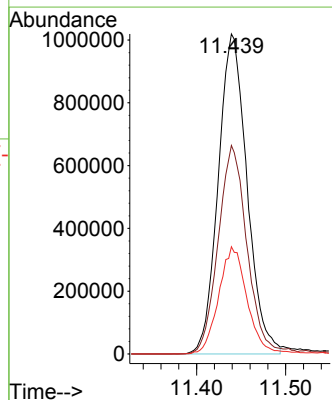
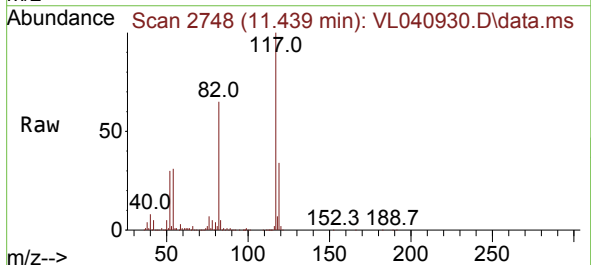
Instrument :
MSVOA_L
ClientSampleId :
10492

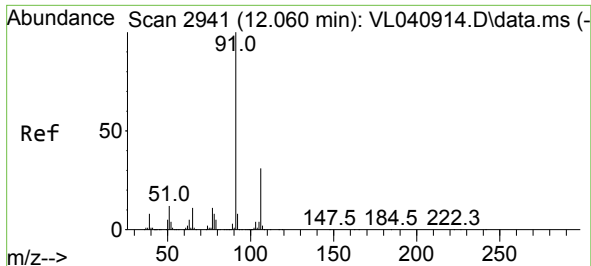
Tgt Ion: 91 Resp: 65877
Ion Ratio Lower Upper
91 100
92 0.0 49.2 73.8#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.439 min Scan# 2748
Delta R.T. 0.000 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

Tgt Ion: 117 Resp: 2287832
Ion Ratio Lower Upper
117 100
82 65.9 49.6 74.4
119 33.4 23.4 35.0

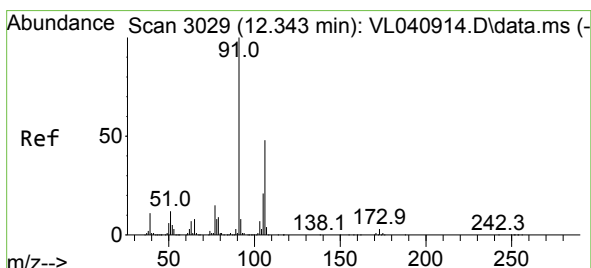
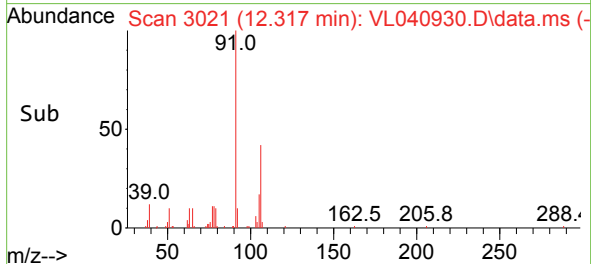
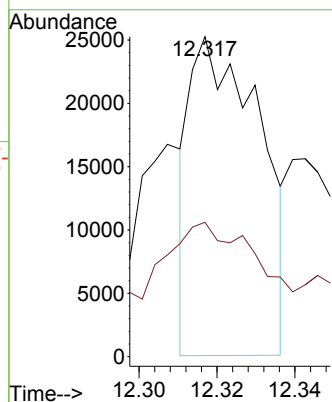
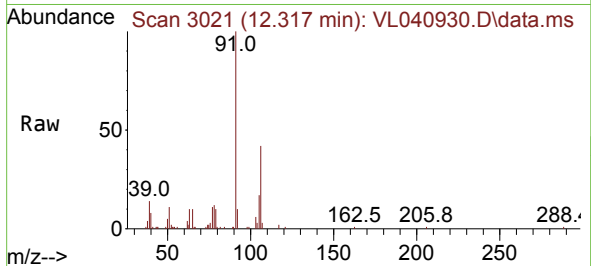




#58
Ethyl Benzene
Concen: 0.107 ppbv
RT: 12.317 min Scan# 3021
Delta R.T. 0.257 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

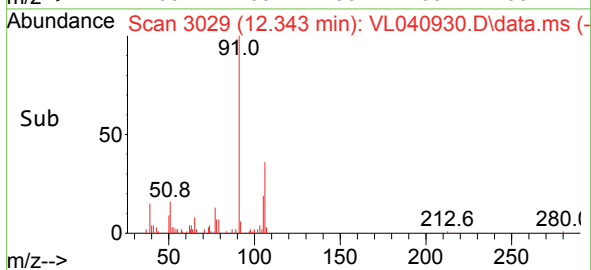
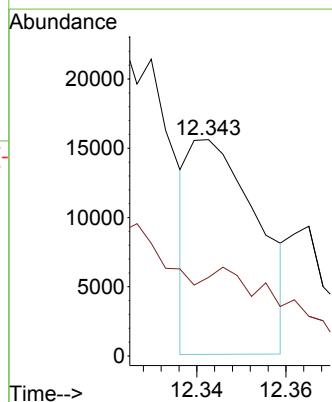
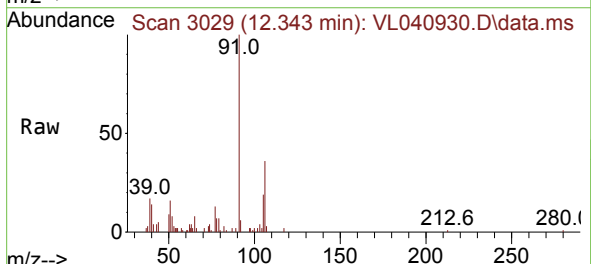
Instrument :
MSVOA_L
ClientSampleId :
10492

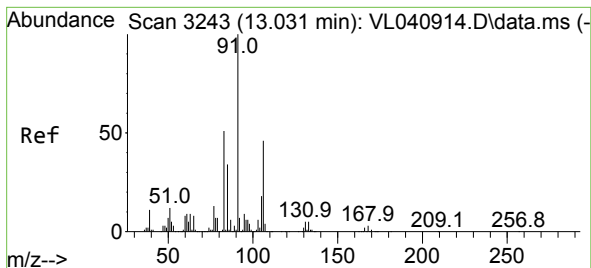
Tgt Ion: 91 Resp: 31307
Ion Ratio Lower Upper
91 100
106 36.6 24.9 37.3



#59
m/p-Xylene
Concen: 0.066 ppbv
RT: 12.343 min Scan# 3029
Delta R.T. 0.000 min
Lab File: VL040930.D
Acq: 21 Dec 2023 15:13

Tgt Ion: 91 Resp: 16422
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0





#60

o-Xylene

Concen: 0.074 ppbv

RT: 13.031 min Scan# 31

Delta R.T. 0.000 min

Lab File: VL040930.D

Acq: 21 Dec 2023 15:13

Instrument :

MSVOA_L

ClientSampleId :

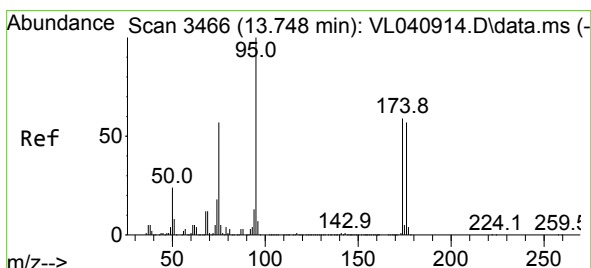
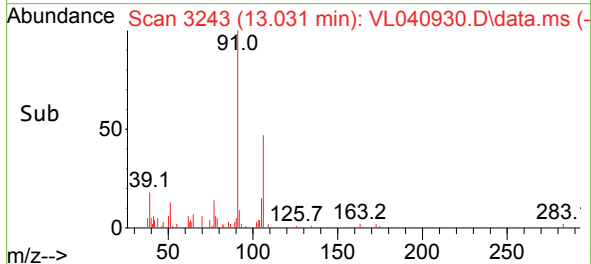
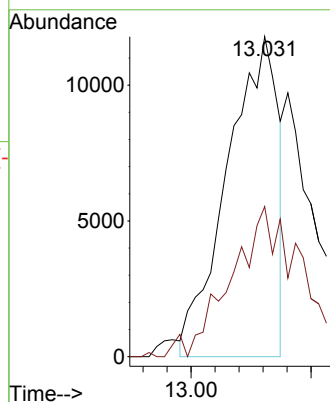
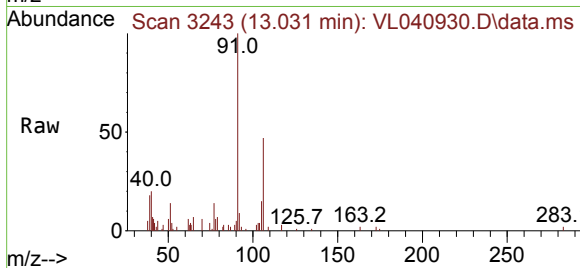
10492

Tgt Ion: 91 Resp: 17356

Ion Ratio Lower Upper

91 100

106 67.6 22.6 67.7



#68

1-Bromo-4-Fluorobenzene

Concen: 9.981 ppbv

RT: 13.748 min Scan# 3466

Delta R.T. 0.000 min

Lab File: VL040930.D

Acq: 21 Dec 2023 15:13

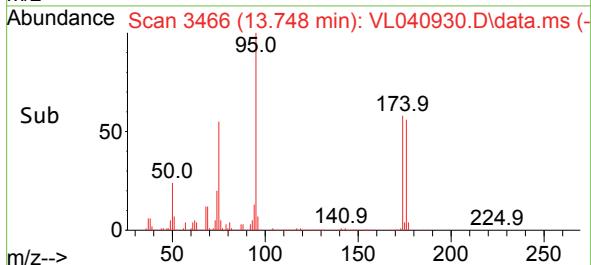
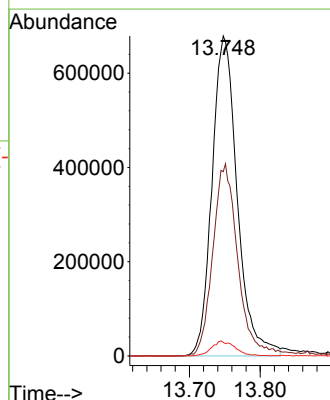
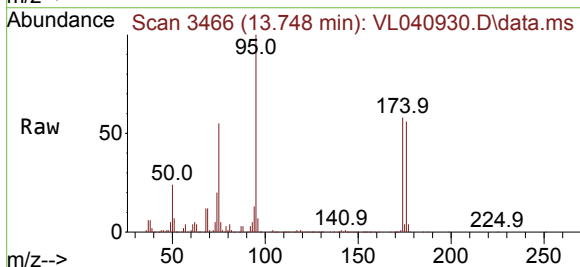
Tgt Ion: 95 Resp: 1682061

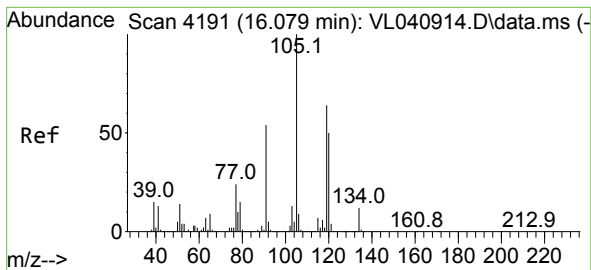
Ion Ratio Lower Upper

95 100

174 61.1 48.0 72.0

175 4.4 3.7 5.5





#74
 1,2,4-Trimethylbenzene
 Concen: 0.039 ppbv
 RT: 16.079 min Scan# 4191
 Delta R.T. 0.000 min
 Lab File: VL040930.D
 Acq: 21 Dec 2023 15:13

Instrument :
 MSVOA_L
 ClientSampleId :
 10492

Tgt Ion:	105	Resp:	9647
Ion	Ratio	Lower	Upper
105	100		
120	17.5	40.2	60.4#
91	0.0	43.0	64.6#
77	4.2	18.9	28.3#

