

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122123\
 Data File : VL040936.D
 Acq On : 21 Dec 2023 19:11
 Operator : SY/MD
 Sample : 05925-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

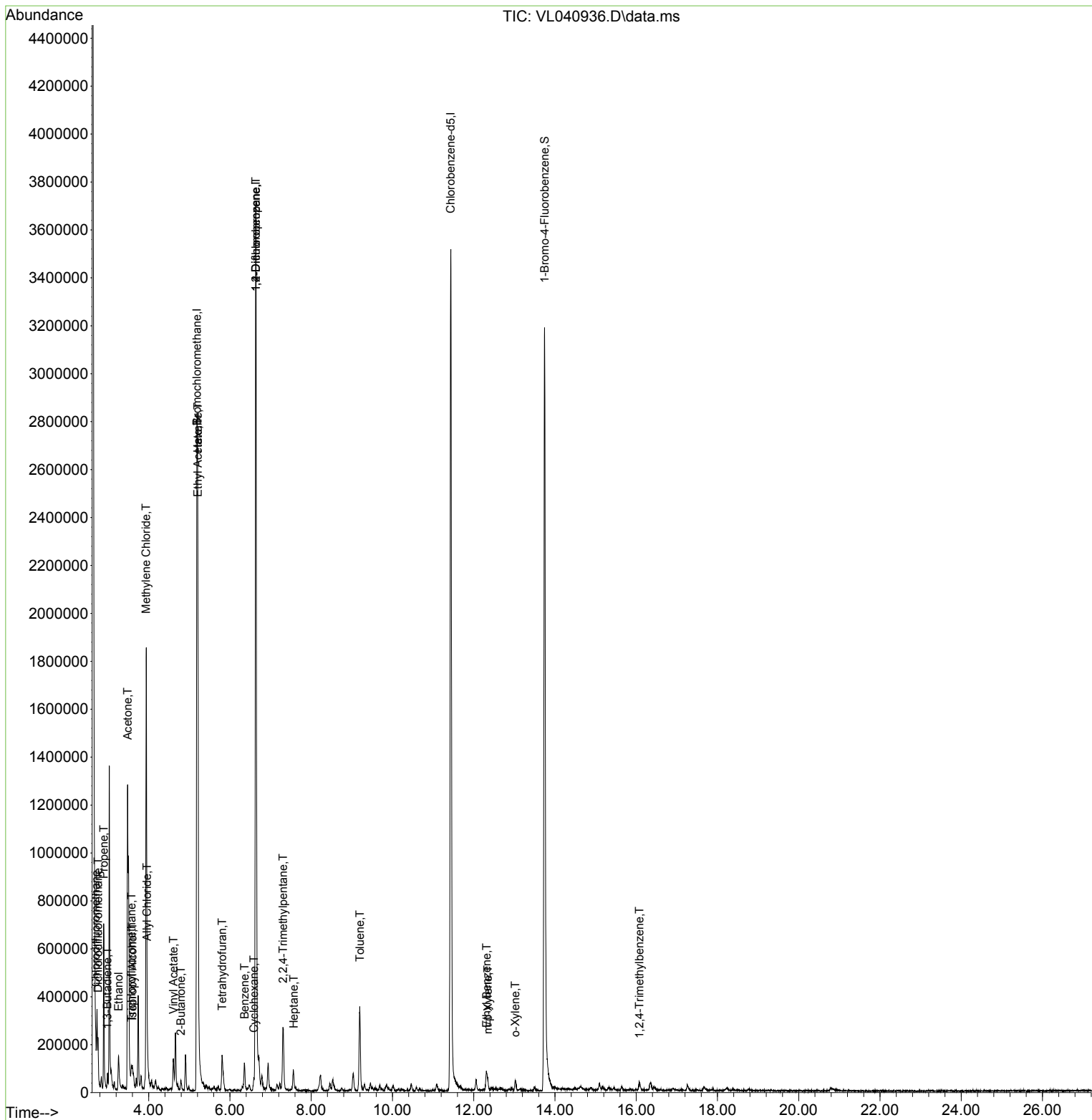
Quant Time: Dec 22 00:10:13 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 21 07:32:42 2023
 Response via : Initial Calibration

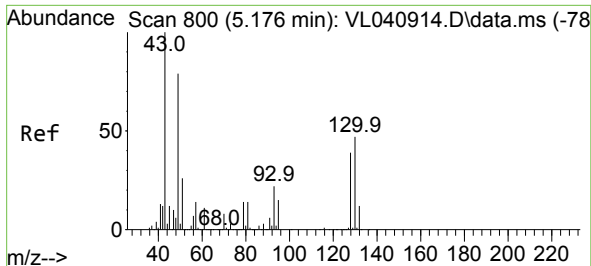
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.185	49	1114925	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	2816110	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.433	117	2289221	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.745	95	1677872	9.951	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.751	85	109073	0.514	ppbv	98
3) Chlorodifluoromethane	2.697	51	70523	0.420	ppbv #	88
9) Propene	2.893	41	155529	2.809	ppbv	96
10) Heptane	7.568	43	12158	0.088	ppbv #	1
11) Trichlorofluoromethane	3.575	101	40419	0.243	ppbv	97
13) Ethanol	3.259	45	156764	11.225	ppbv	100
15) Acetone	3.481	43	1496630	11.192	ppbv	96
16) 1,3-Butadiene	2.983	39	16387	0.285	ppbv #	44
19) Isopropyl Alcohol	3.597	45	40515	0.581	ppbv #	95
20) Methylene Chloride	3.938	84	602227	12.635	ppbv	96
21) Allyl Chloride	3.960	41	5896	0.075	ppbv #	1
23) Vinyl Acetate	4.610	43	66855	0.453	ppbv #	16
25) Ethyl Acetate	5.211	43	551402	2.380	ppbv #	79
26) Hexane	5.208	57	770683	7.505	ppbv #	41
30) Cyclohexane	6.587	84	5044	0.059	ppbv #	1
34) 2-Butanone	4.793	43	46261	0.311	ppbv #	85
36) Benzene	6.359	78	89291	0.406	ppbv #	91
39) 1,2-Dichloropropane	6.639	63	713455	8.247	ppbv #	24
41) Tetrahydrofuran	5.806	42	10979	0.121	ppbv #	39
44) 2,2,4-Trimethylpentane	7.307	57	243557	0.651	ppbv	93
53) Toluene	9.195	91	216647	0.888	ppbv	97
58) Ethyl Benzene	12.317	91	35947	0.122	ppbv	92
59) m/p-Xylene	12.349	91	12779	0.051	ppbv #	100
60) o-Xylene	13.024	91	18471	0.078	ppbv #	31
74) 1,2,4-Trimethylbenzene	16.079	105	13738	0.055	ppbv #	70

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

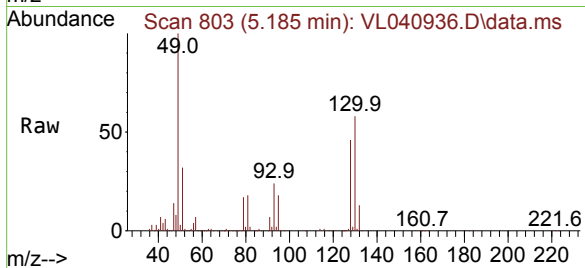
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Dec 21 07:32:42 2023
Response via : Initial Calibration



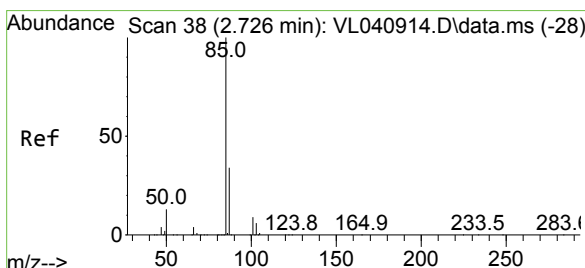
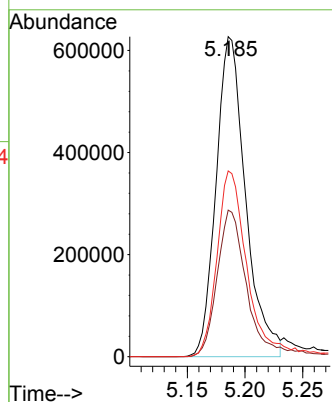
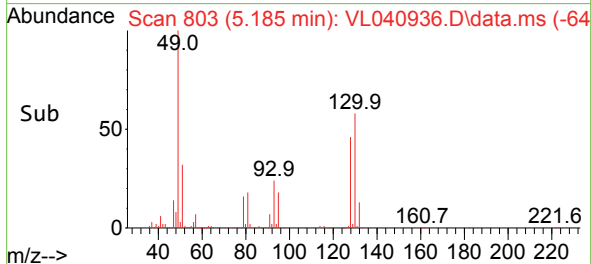


#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.185 min Scan# 80
 Delta R.T. 0.009 min
 Lab File: VL040936.D
 Acq: 21 Dec 2023 19:11

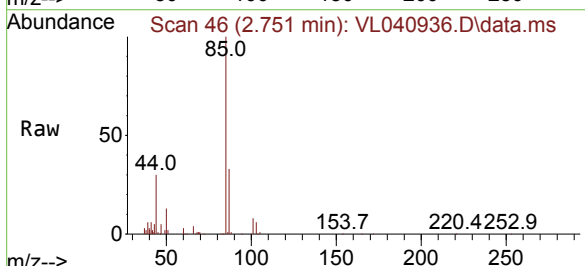
Instrument :
 MSVOA_L
 ClientSampleId :



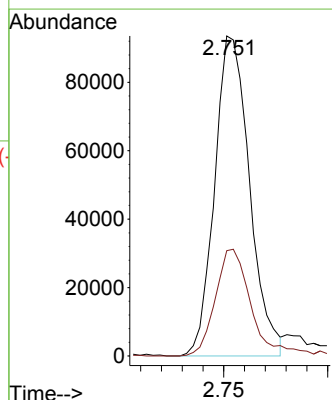
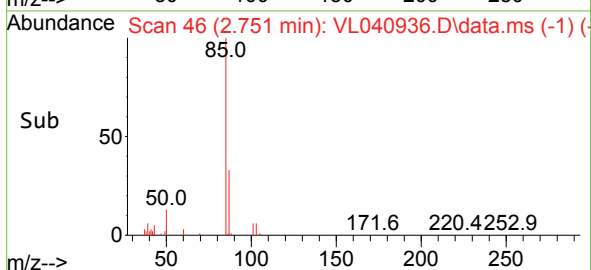
Tgt Ion: 49 Resp: 1114925
 Ion Ratio Lower Upper
 49 100
 128 47.7 23.8 71.2
 130 61.7 30.1 90.5

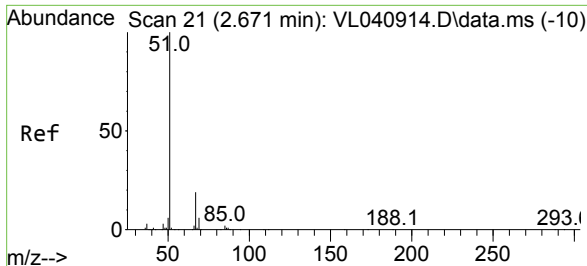


#2
 Dichlorodifluoromethane
 Concen: 0.514 ppbv
 RT: 2.751 min Scan# 46
 Delta R.T. 0.026 min
 Lab File: VL040936.D
 Acq: 21 Dec 2023 19:11



Tgt Ion: 85 Resp: 109073
 Ion Ratio Lower Upper
 85 100
 87 32.9 27.0 40.6

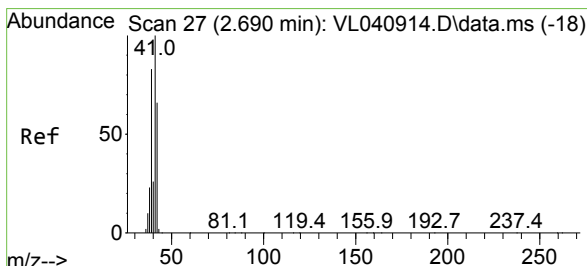
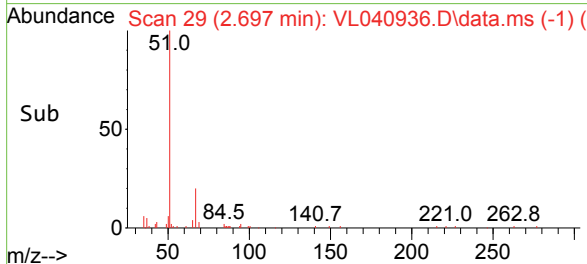
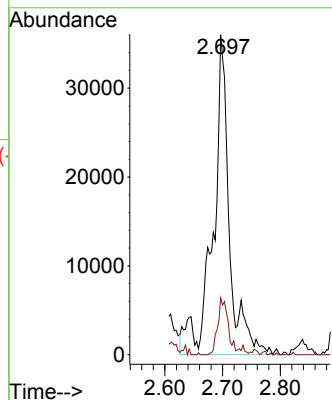
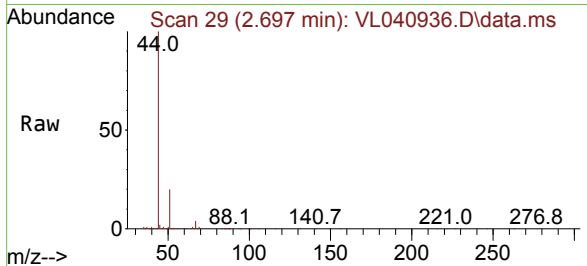




#3
Chlorodifluoromethane
Concen: 0.420 ppbv
RT: 2.697 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

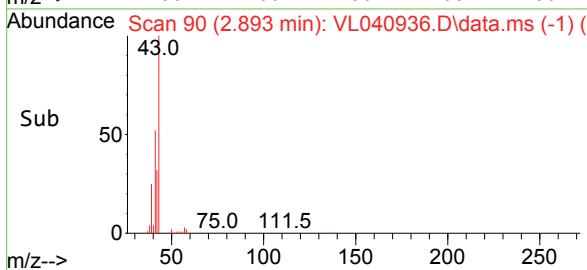
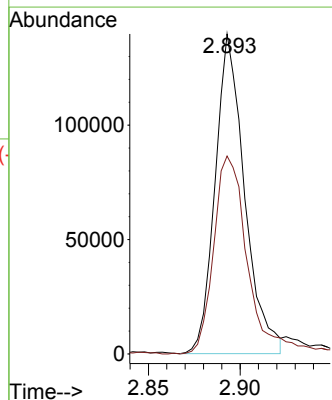
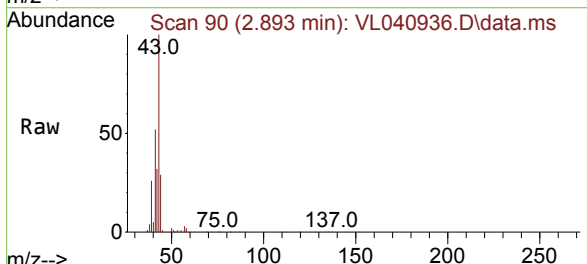
Instrument :
MSVOA_L
ClientSampleId :

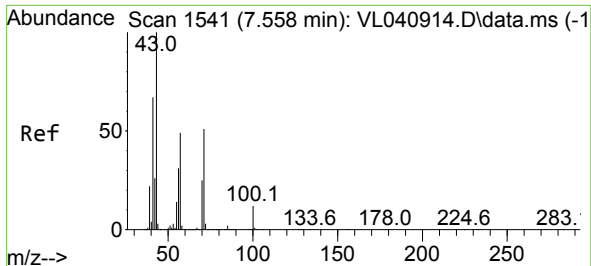
Tgt Ion: 51 Resp: 70523
Ion Ratio Lower Upper
51 100
67 13.0 14.7 22.1#



#9
Propene
Concen: 2.809 ppbv
RT: 2.893 min Scan# 90
Delta R.T. 0.203 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

Tgt Ion: 41 Resp: 155529
Ion Ratio Lower Upper
41 100
42 73.3 55.8 83.6

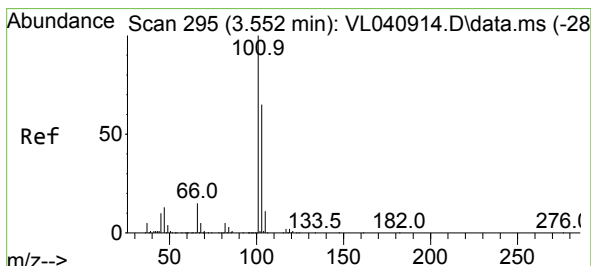
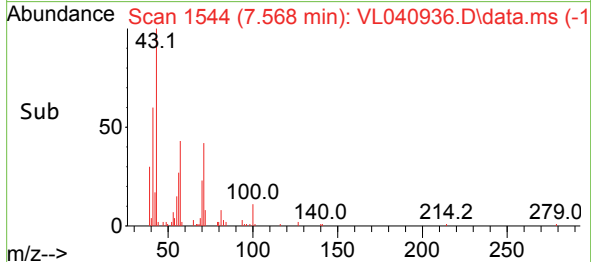
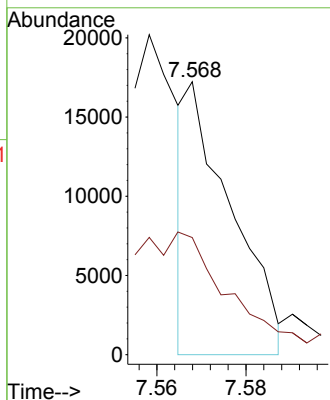
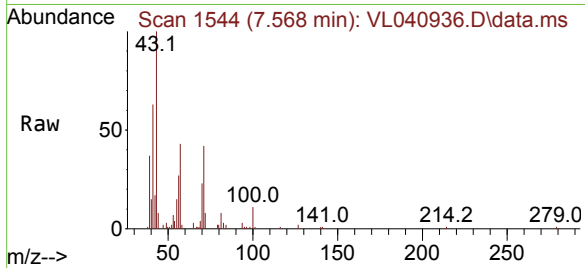




#10
 Heptane
 Concen: 0.088 ppbv
 RT: 7.568 min Scan# 11
 Delta R.T. 0.010 min
 Lab File: VL040936.D
 Acq: 21 Dec 2023 19:11

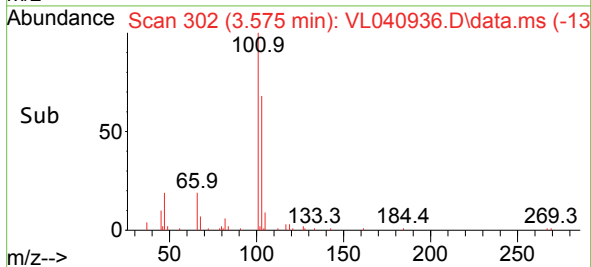
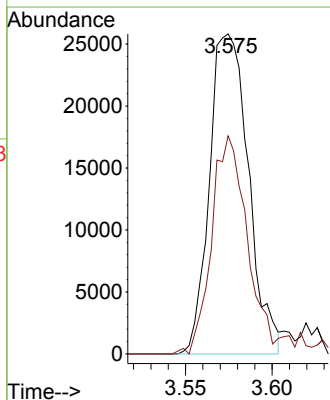
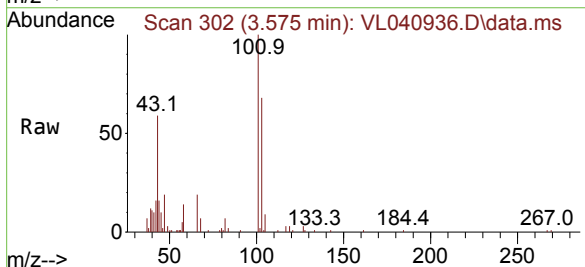
Instrument :
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 ClientSampleId :

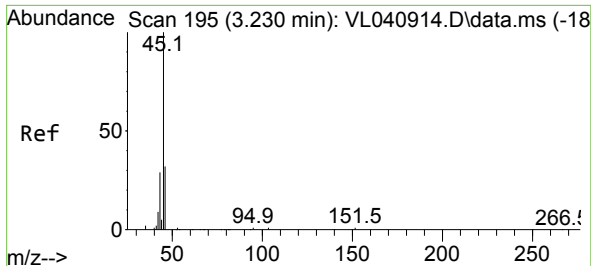
Tgt Ion: 43 Resp: 12158
 Ion Ratio Lower Upper
 43 100
 57 143.7 39.3 58.9#



#11
 Trichlorofluoromethane
 Concen: 0.243 ppbv
 RT: 3.575 min Scan# 302
 Delta R.T. 0.023 min
 Lab File: VL040936.D
 Acq: 21 Dec 2023 19:11

Tgt Ion: 101 Resp: 40419
 Ion Ratio Lower Upper
 101 100
 103 67.3 51.9 77.9

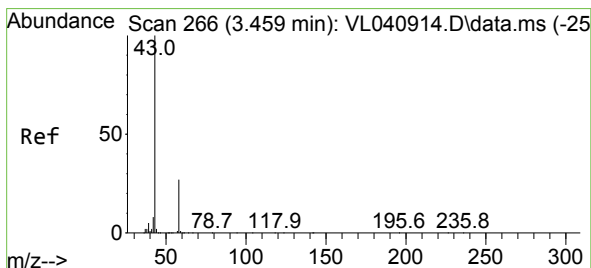
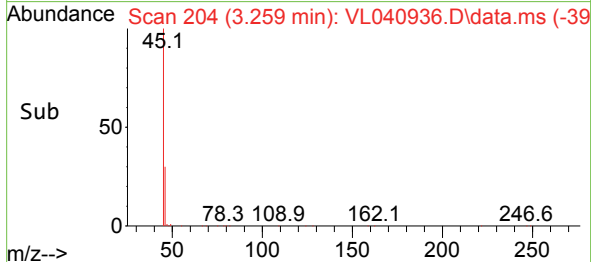
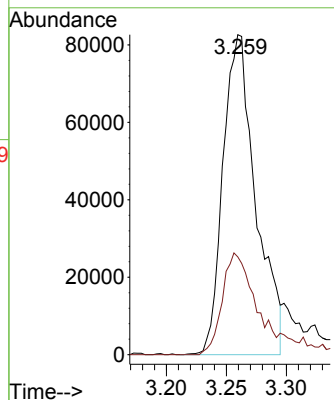
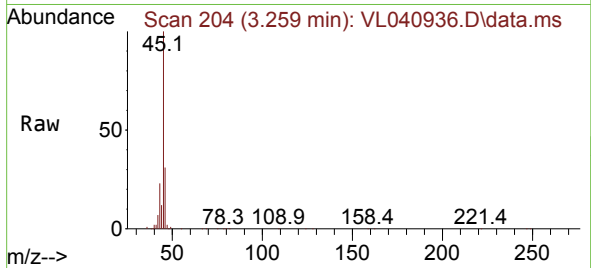




#13
 Ethanol
 Concen: 11.225 ppbv
 RT: 3.259 min Scan# 204
 Delta R.T. 0.029 min
 Lab File: VL040936.D
 Acq: 21 Dec 2023 19:11

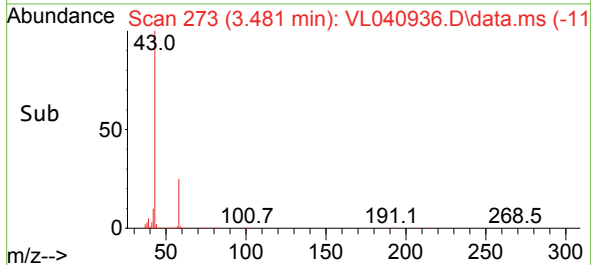
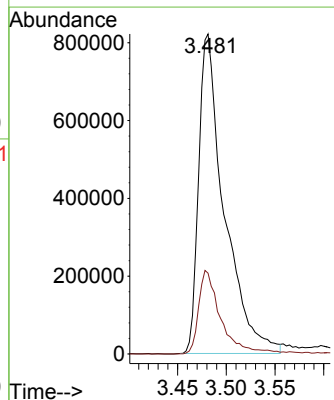
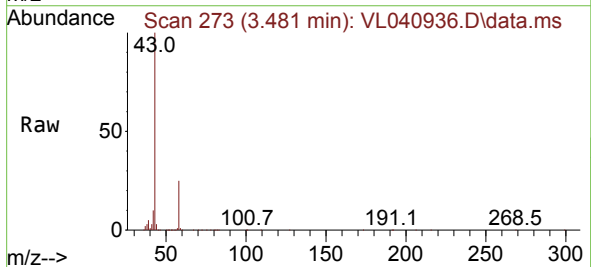
Instrument :
 MSVOA_L
 ClientSampleId :

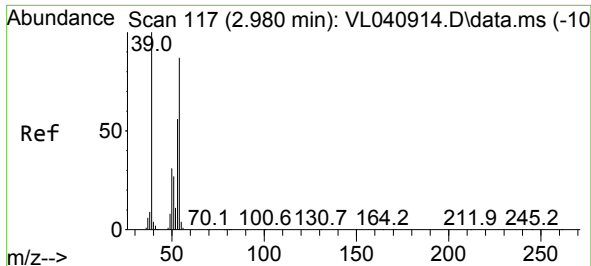
Tgt Ion: 45 Resp: 156764
 Ion Ratio Lower Upper
 45 100
 46 37.3 15.0 60.0



#15
 Acetone
 Concen: 11.192 ppbv
 RT: 3.481 min Scan# 273
 Delta R.T. 0.023 min
 Lab File: VL040936.D
 Acq: 21 Dec 2023 19:11

Tgt Ion: 43 Resp: 1496630
 Ion Ratio Lower Upper
 43 100
 58 23.7 20.6 30.8

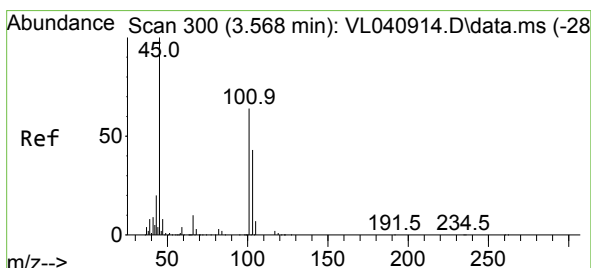
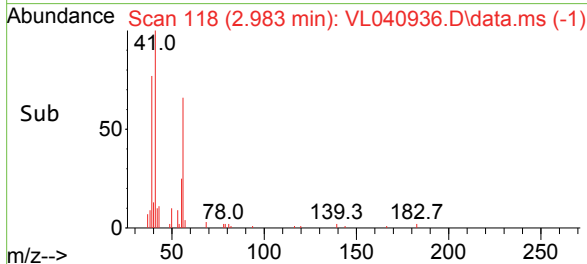
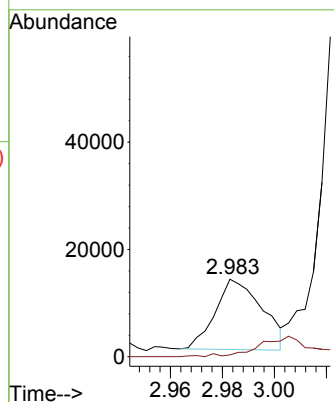
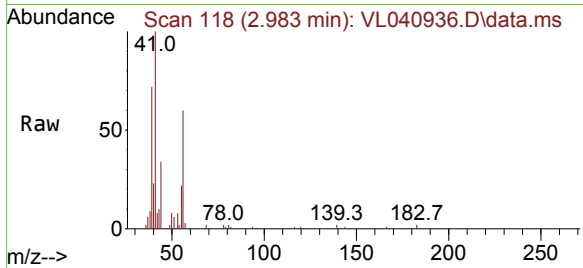




#16
1,3-Butadiene
Concen: 0.285 ppbv
RT: 2.983 min Scan# 117
Delta R.T. 0.003 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

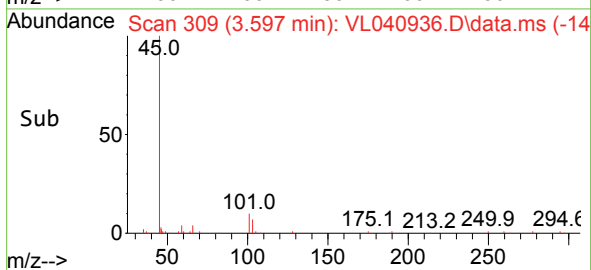
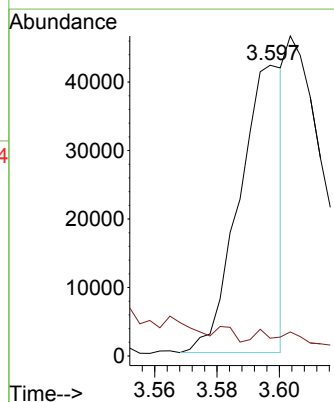
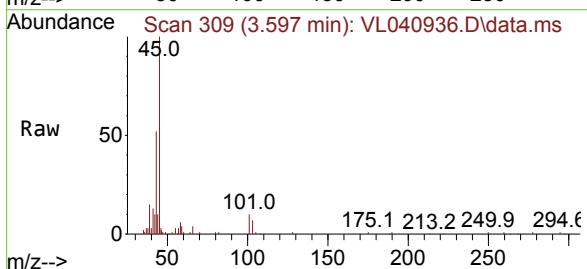
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ClientSampleId :

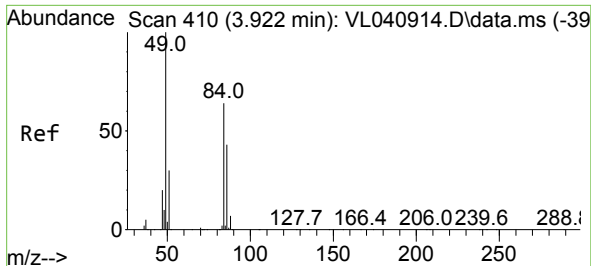
Tgt Ion: 39 Resp: 16387
Ion Ratio Lower Upper
39 100
54 30.7 63.8 95.6#



#19
Isopropyl Alcohol
Concen: 0.581 ppbv
RT: 3.597 min Scan# 309
Delta R.T. 0.029 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

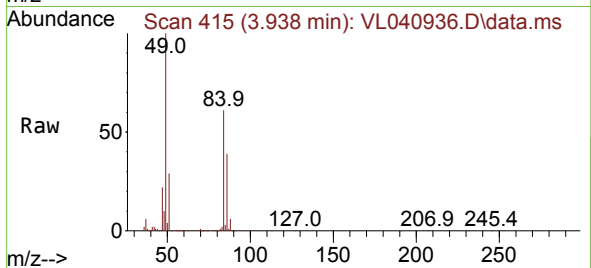
Tgt Ion: 45 Resp: 40515
Ion Ratio Lower Upper
45 100
58 0.0 1.5 2.3#



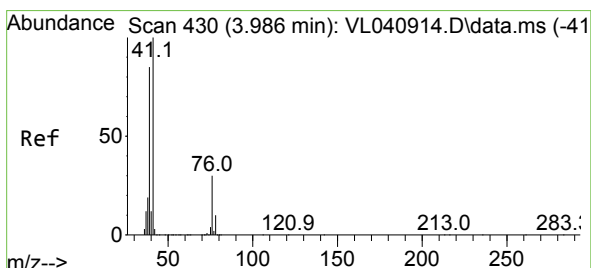
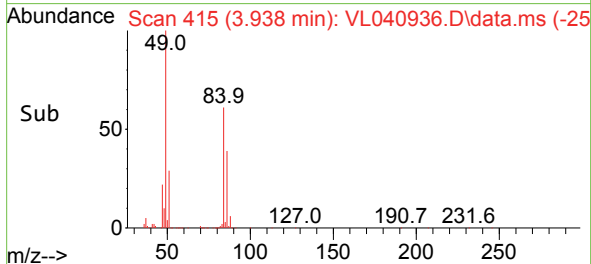
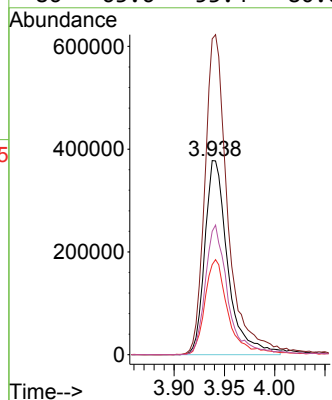


#20
Methylene Chloride
Concen: 12.635 ppbv
RT: 3.938 min Scan# 411
Delta R.T. 0.016 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

Instrument :
MSVOA_L
ClientSampleId :

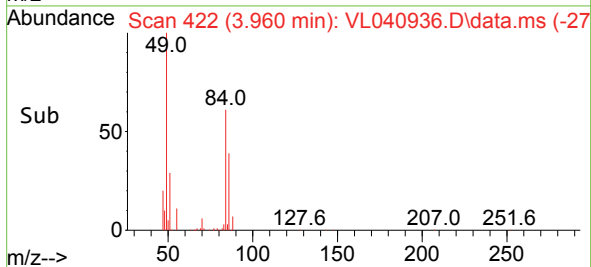
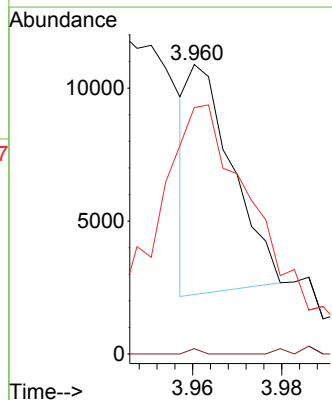
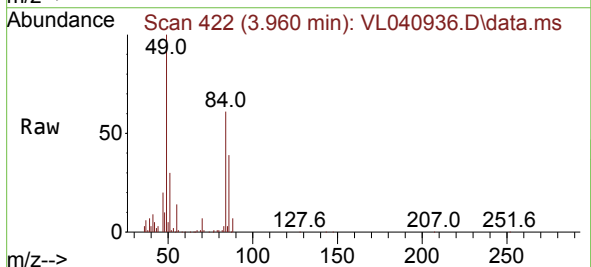


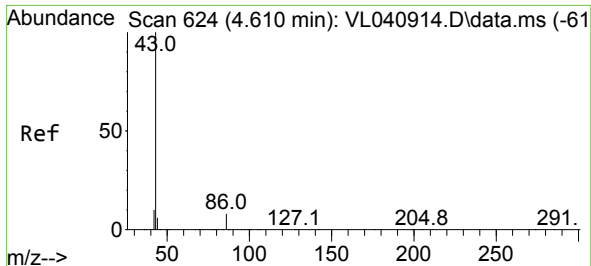
Tgt Ion: 84 Resp: 602227
Ion Ratio Lower Upper
84 100
49 162.8 124.6 187.0
51 46.3 37.2 55.8
86 63.6 53.4 80.0



#21
Allyl Chloride
Concen: 0.075 ppbv
RT: 3.960 min Scan# 422
Delta R.T. -0.026 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

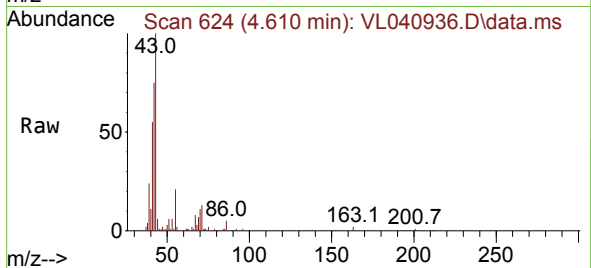
Tgt Ion: 41 Resp: 5896
Ion Ratio Lower Upper
41 100
76 0.0 23.9 35.9#
39 258.3 66.5 99.7#



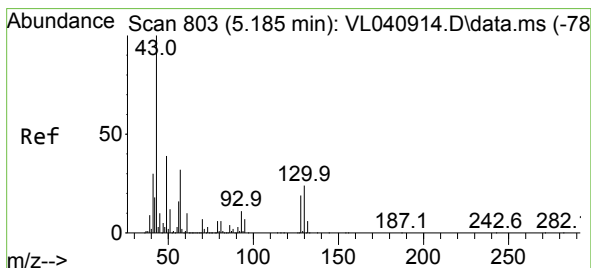
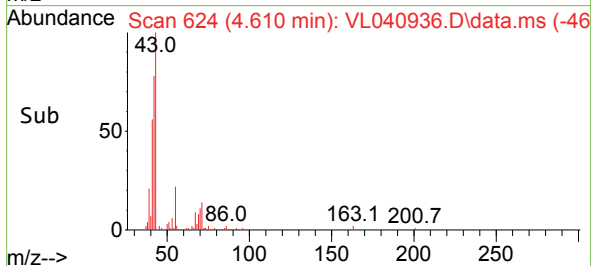
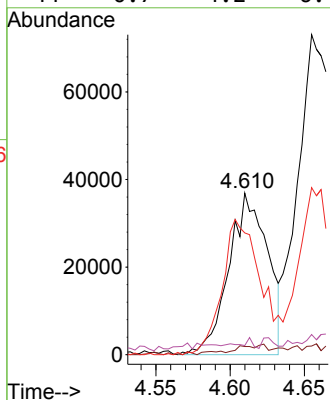


#23
 Vinyl Acetate
 Concen: 0.453 ppbv
 RT: 4.610 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL040936.D
 Acq: 21 Dec 2023 19:11

Instrument :
 MSVOA_L
 ClientSampleId :

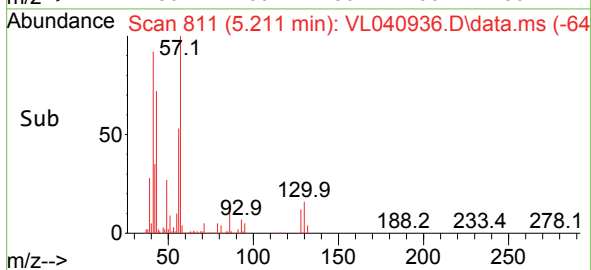
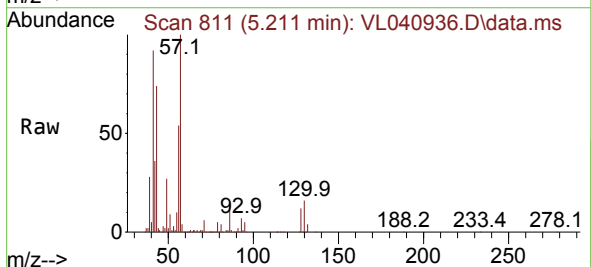
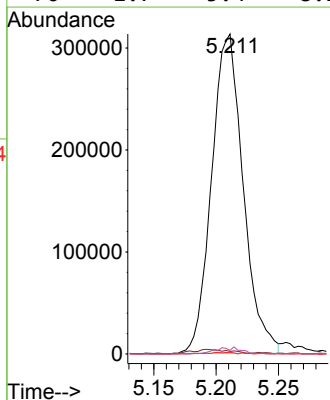


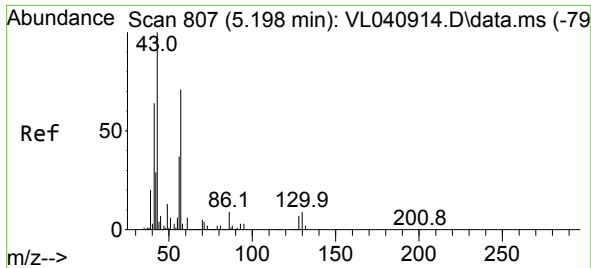
Tgt Ion:	43	Resp:	66855
Ion	Ratio	Lower	Upper
43	100		
86	4.5	5.5	8.3#
42	74.0	8.4	12.6#
44	0.7	4.2	6.4#



#25
 Ethyl Acetate
 Concen: 2.380 ppbv
 RT: 5.211 min Scan# 811
 Delta R.T. 0.026 min
 Lab File: VL040936.D
 Acq: 21 Dec 2023 19:11

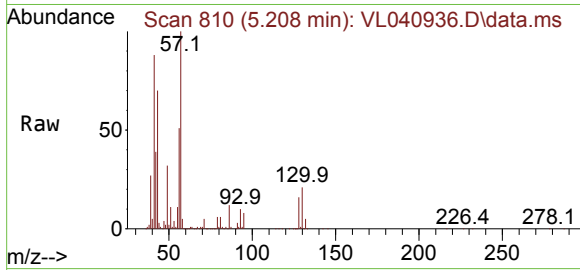
Tgt Ion:	43	Resp:	551402
Ion	Ratio	Lower	Upper
43	100		
45	2.2	8.2	12.2#
61	0.5	7.6	11.4#
70	1.7	5.4	8.2#



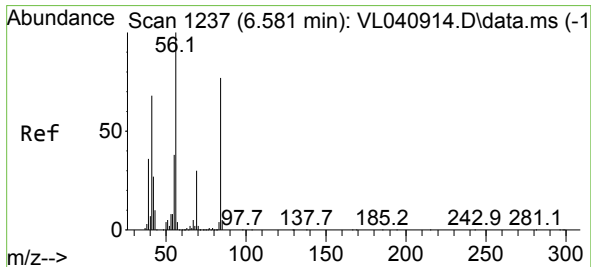
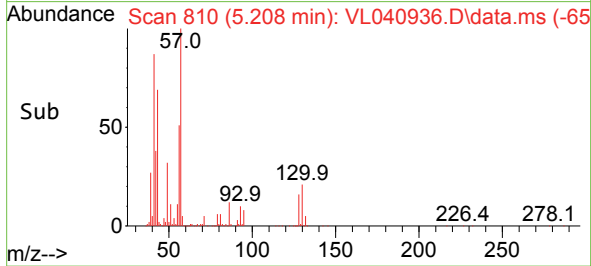
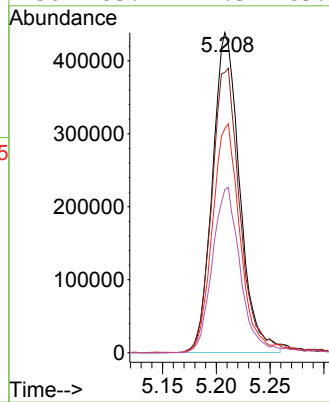


#26
Hexane
Concen: 7.505 ppbv
RT: 5.208 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

Instrument :
MSVOA_L
ClientSampleId :

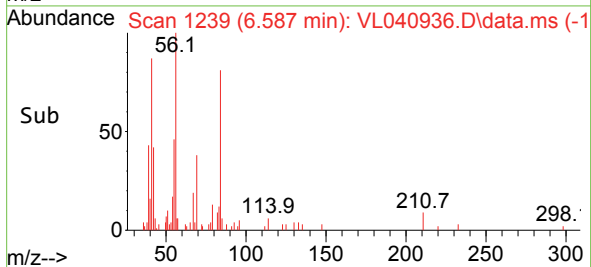
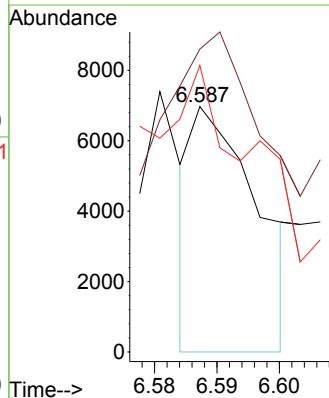
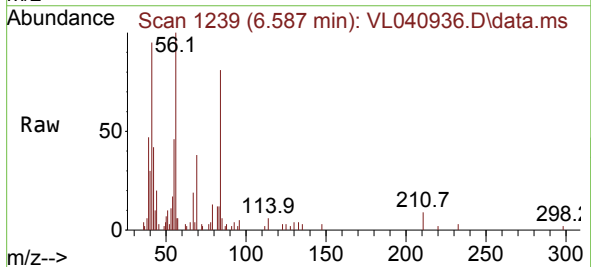


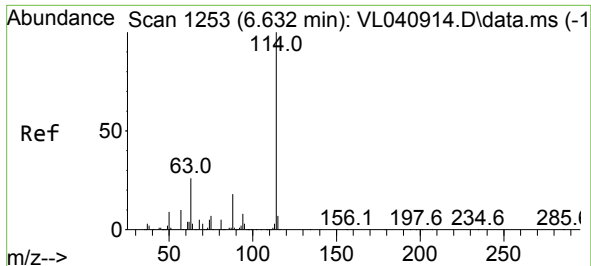
Tgt Ion: 57 Resp: 770683
Ion Ratio Lower Upper
57 100
41 93.7 75.2 112.8
43 74.8 188.0 282.0#
56 53.9 42.3 63.5



#30
Cyclohexane
Concen: 0.059 ppbv
RT: 6.587 min Scan# 1239
Delta R.T. 0.007 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

Tgt Ion: 84 Resp: 5044
Ion Ratio Lower Upper
84 100
56 306.2 111.4 167.2#
41 320.5 70.0 105.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.639 min Scan# 11

Delta R.T. 0.007 min

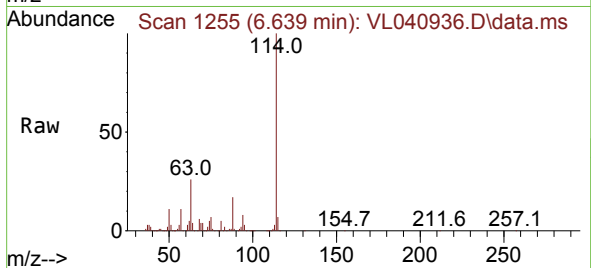
Lab File: VL040936.D

Acq: 21 Dec 2023 19:11

Instrument :

MSVOA_L

ClientSampleId :



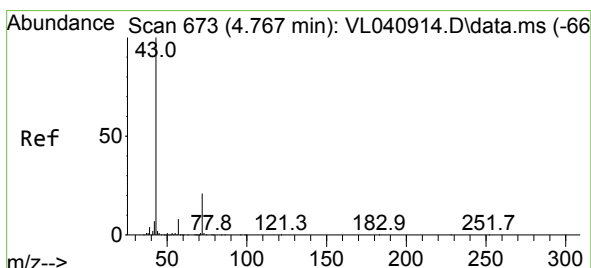
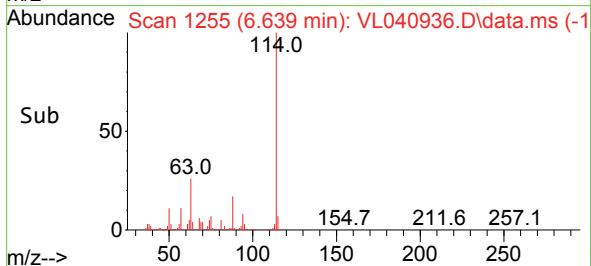
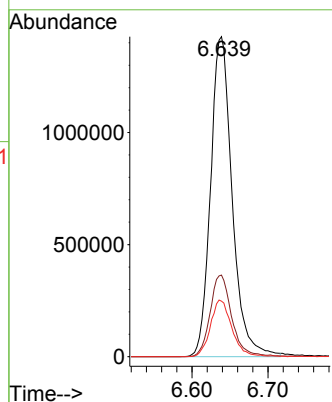
Tgt Ion:114 Resp: 2816110

Ion Ratio Lower Upper

114 100

63 25.7 21.0 31.6

88 17.7 14.3 21.5



#34

2-Butanone

Concen: 0.311 ppbv

RT: 4.793 min Scan# 681

Delta R.T. 0.026 min

Lab File: VL040936.D

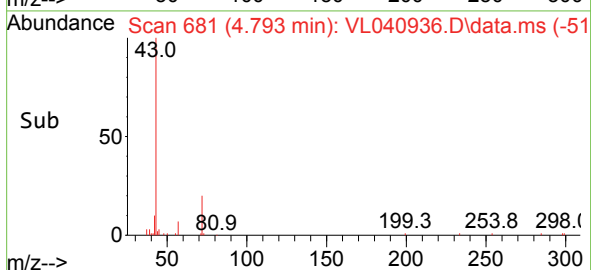
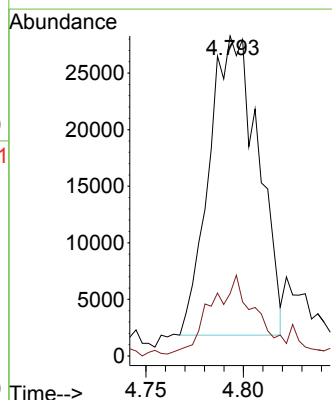
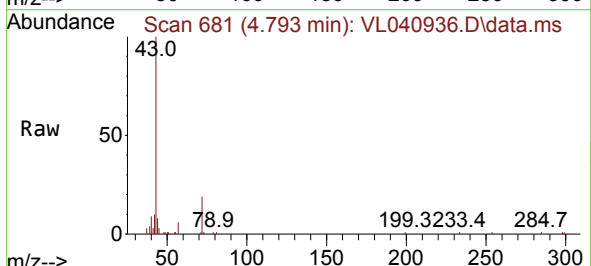
Acq: 21 Dec 2023 19:11

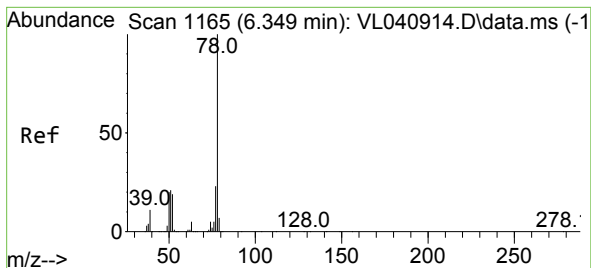
Tgt Ion: 43 Resp: 46261

Ion Ratio Lower Upper

43 100

72 28.8 17.2 25.8#





#36

Benzene

Concen: 0.406 ppbv

RT: 6.359 min Scan# 1165

Delta R.T. 0.010 min

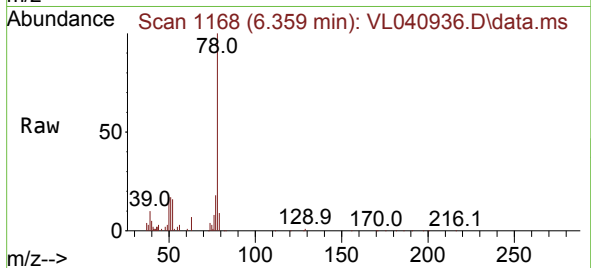
Lab File: VL040936.D

Acq: 21 Dec 2023 19:11

Instrument :

MSVOA_L

ClientSampleId :



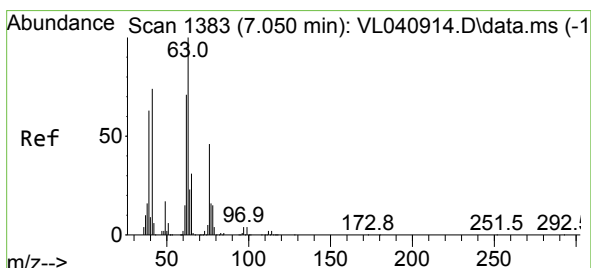
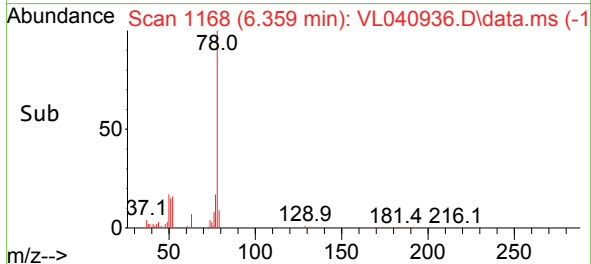
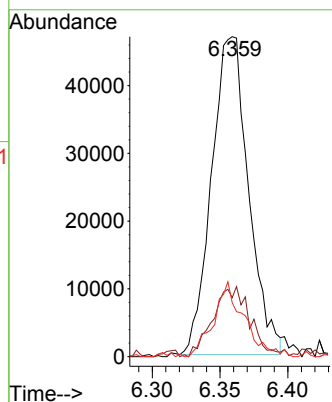
Tgt Ion: 78 Resp: 89291

Ion Ratio Lower Upper

78 100

77 18.0 18.4 27.6#

50 16.4 16.0 24.0



#39

1,2-Dichloropropane

Concen: 8.247 ppbv

RT: 6.639 min Scan# 1255

Delta R.T. -0.411 min

Lab File: VL040936.D

Acq: 21 Dec 2023 19:11

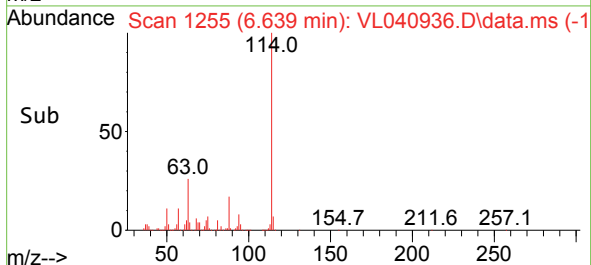
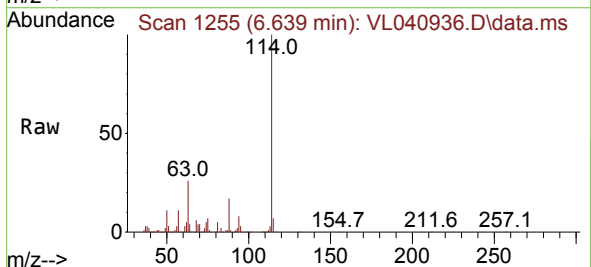
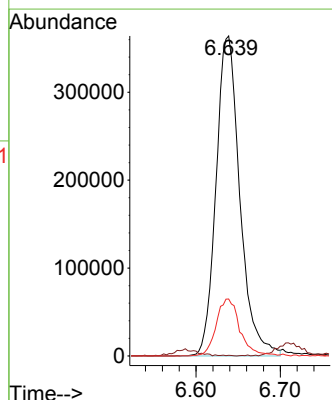
Tgt Ion: 63 Resp: 713455

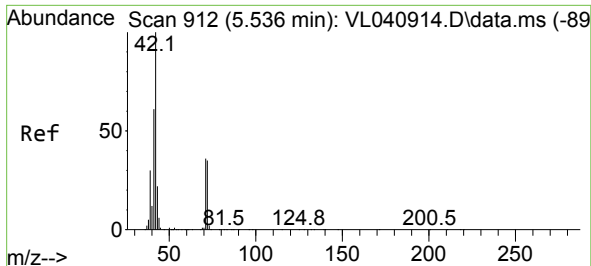
Ion Ratio Lower Upper

63 100

41 0.0 59.0 88.6#

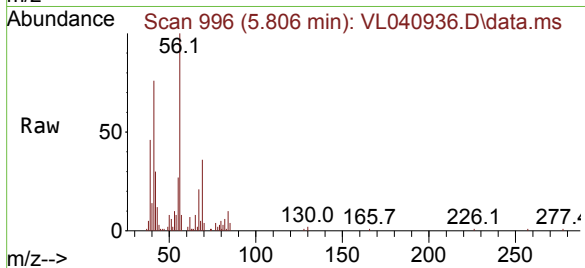
62 17.8 56.6 85.0#



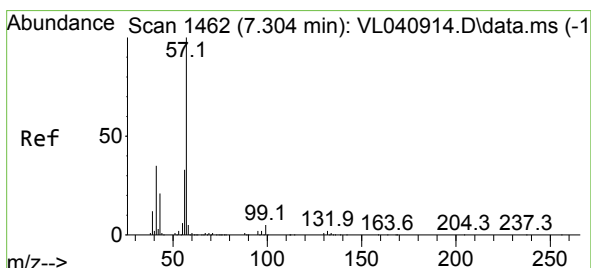
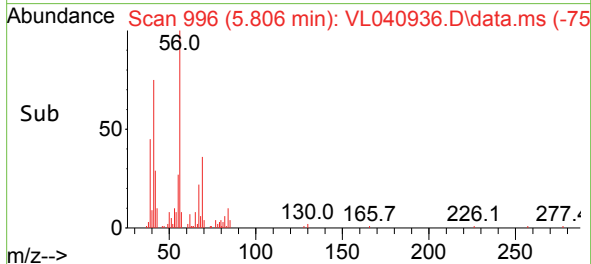
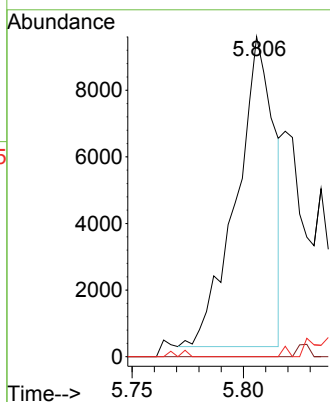


#41
Tetrahydrofuran
Concen: 0.121 ppbv
RT: 5.806 min Scan# 912
Delta R.T. 0.270 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

Instrument :
MSVOA_L
ClientSampleId :

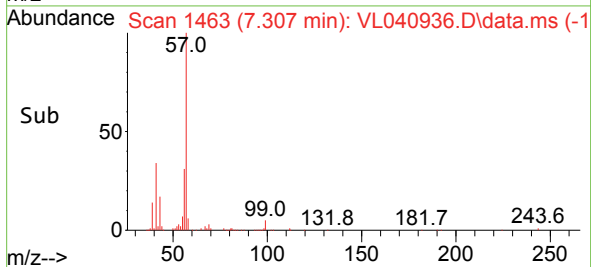
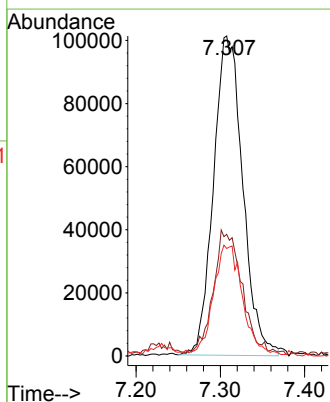
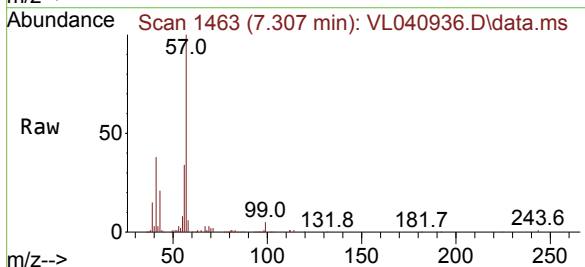


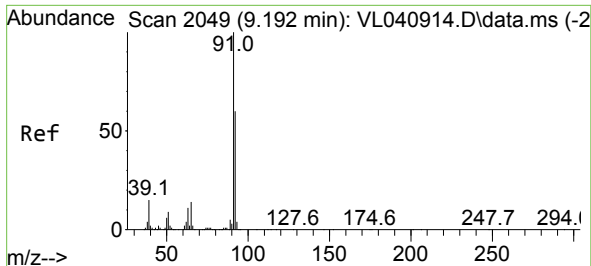
Tgt Ion: 42 Resp: 10979
Ion Ratio Lower Upper
42 100
72 1.6 29.6 44.4#
71 0.0 29.1 43.7#



#44
2,2,4-Trimethylpentane
Concen: 0.651 ppbv
RT: 7.307 min Scan# 1463
Delta R.T. 0.003 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

Tgt Ion: 57 Resp: 243557
Ion Ratio Lower Upper
57 100
41 39.8 28.2 42.4
56 35.6 25.3 37.9

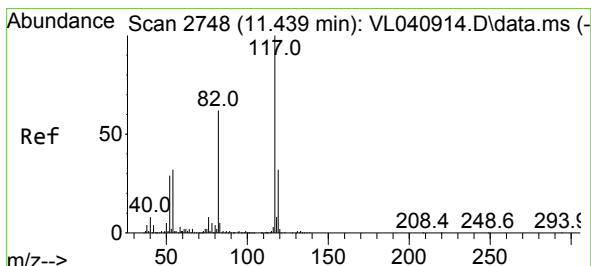
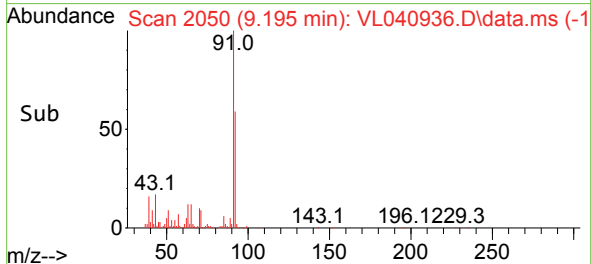
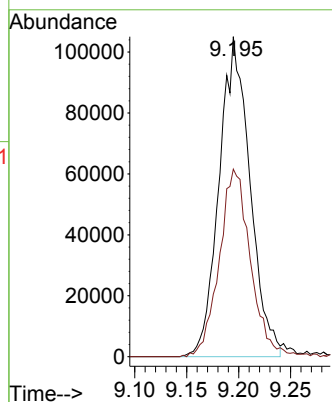
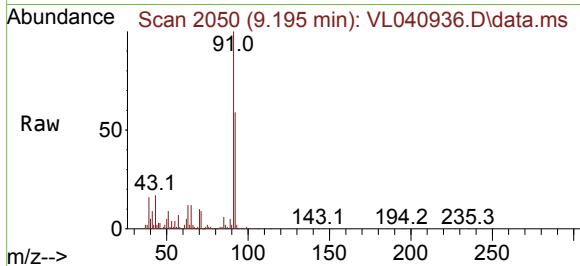




#53
Toluene
Concen: 0.888 ppbv
RT: 9.195 min Scan# 2049
Delta R.T. 0.003 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

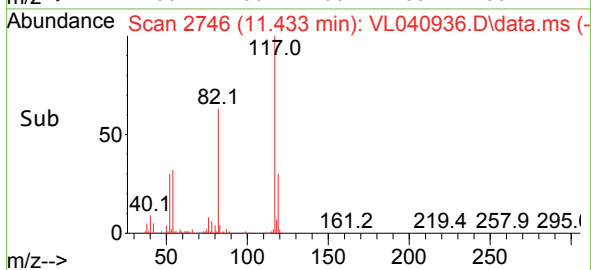
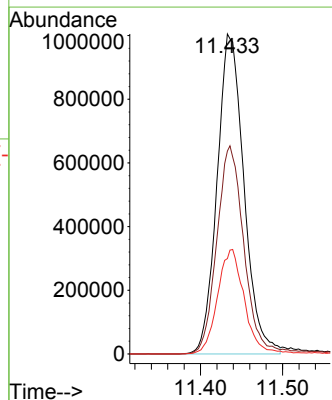
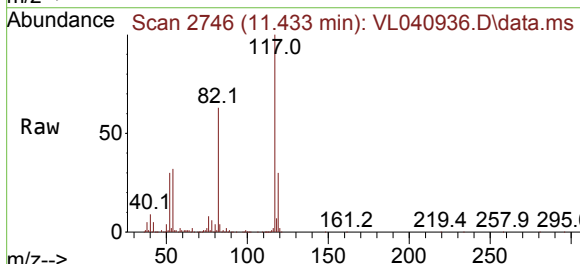
Instrument :
MSVOA_L
ClientSampleId :

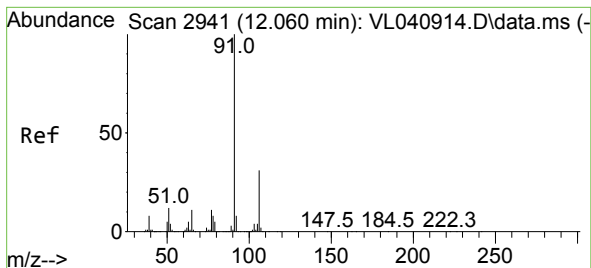
Tgt Ion: 91 Resp: 216647
Ion Ratio Lower Upper
91 100
92 59.4 49.2 73.8



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.433 min Scan# 2746
Delta R.T. -0.006 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

Tgt Ion: 117 Resp: 2289221
Ion Ratio Lower Upper
117 100
82 67.2 49.6 74.4
119 32.9 23.4 35.0





#58

Ethyl Benzene

Concen: 0.122 ppbv

RT: 12.317 min Scan# 3021

Delta R.T. 0.257 min

Lab File: VL040936.D

Acq: 21 Dec 2023 19:11

Instrument :

MSVOA_L

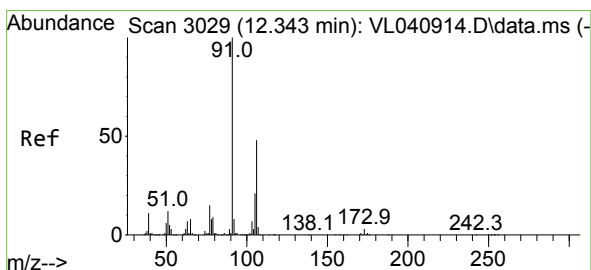
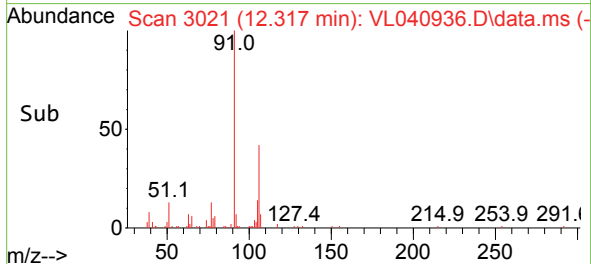
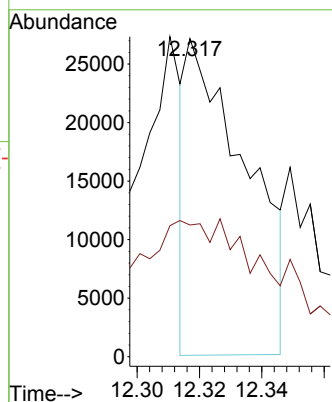
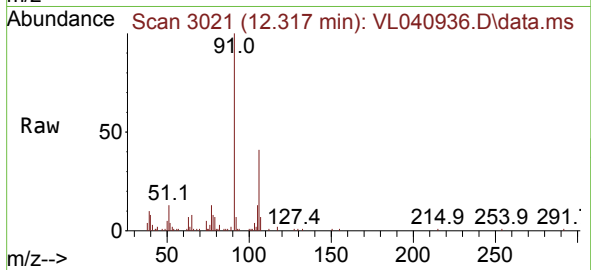
ClientSampleId :

Tgt Ion: 91 Resp: 35947

Ion Ratio Lower Upper

91 100

106 35.5 24.9 37.3



#59

m/p-Xylene

Concen: 0.051 ppbv

RT: 12.349 min Scan# 3031

Delta R.T. 0.007 min

Lab File: VL040936.D

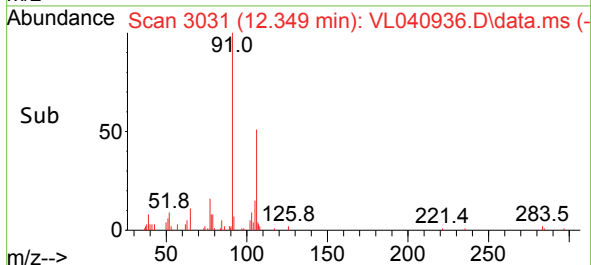
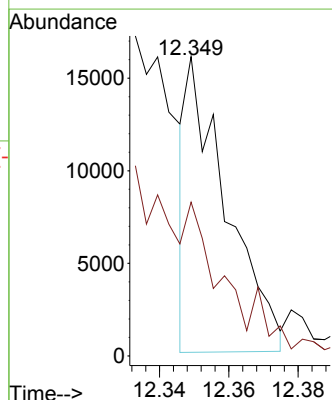
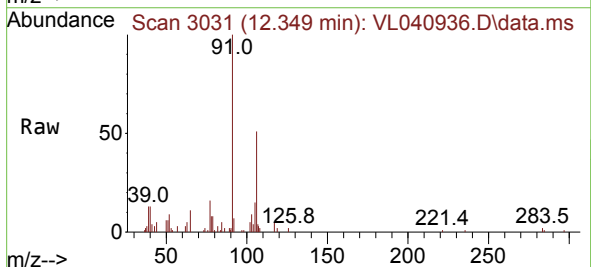
Acq: 21 Dec 2023 19:11

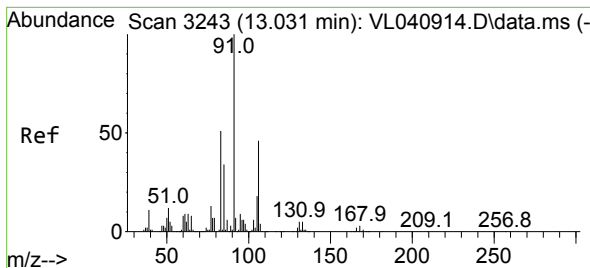
Tgt Ion: 91 Resp: 12779

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0

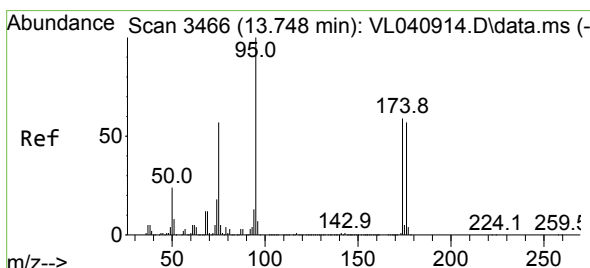
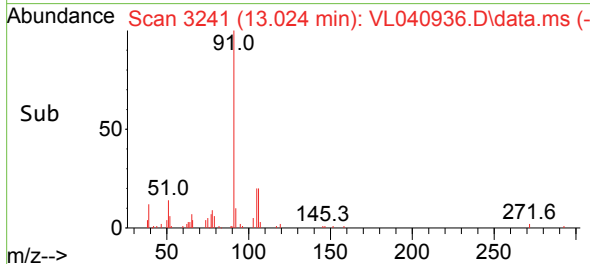
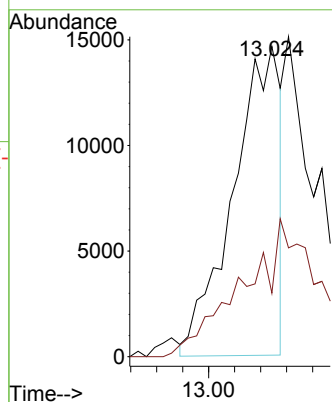
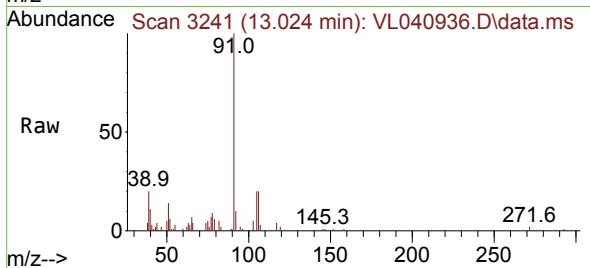




#60
o-Xylene
Concen: 0.078 ppbv
RT: 13.024 min Scan# 31
Delta R.T. -0.006 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

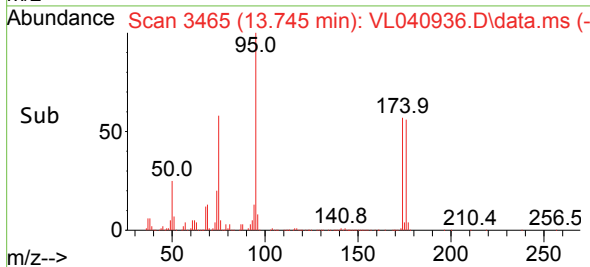
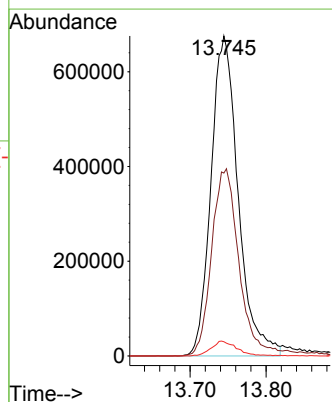
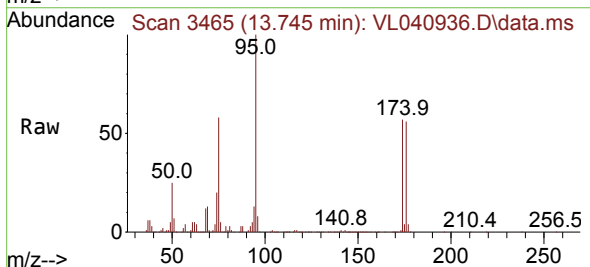
Instrument :
MSVOA_L
ClientSampleId :

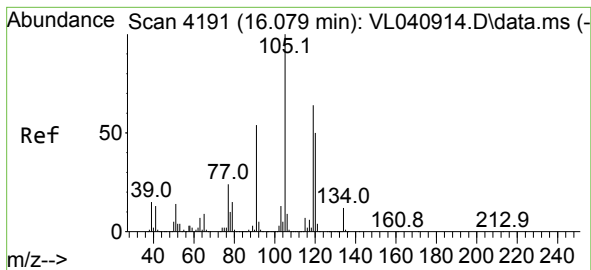
Tgt Ion: 91 Resp: 18471
Ion Ratio Lower Upper
91 100
106 0.0 22.6 67.7#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.951 ppbv
RT: 13.745 min Scan# 3465
Delta R.T. -0.003 min
Lab File: VL040936.D
Acq: 21 Dec 2023 19:11

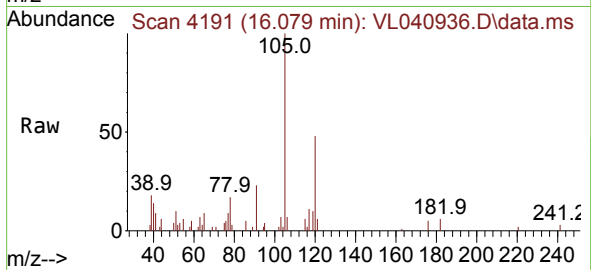
Tgt Ion: 95 Resp: 1677872
Ion Ratio Lower Upper
95 100
174 60.9 48.0 72.0
175 4.5 3.7 5.5





#74
 1,2,4-Trimethylbenzene
 Concen: 0.055 ppbv
 RT: 16.079 min Scan# 4191
 Delta R.T. 0.000 min
 Lab File: VL040936.D
 Acq: 21 Dec 2023 19:11

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion:	105	Resp:	13738
Ion	Ratio	Lower	Upper
105	100		
120	42.7	40.2	60.4
91	21.2	43.0	64.6#
77	7.4	18.9	28.3#

