

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122123\
 Data File : VL040928.D
 Acq On : 21 Dec 2023 13:52
 Operator : SY/MD
 Sample : 05813-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 10439

Quant Time: Dec 22 00:06:43 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)

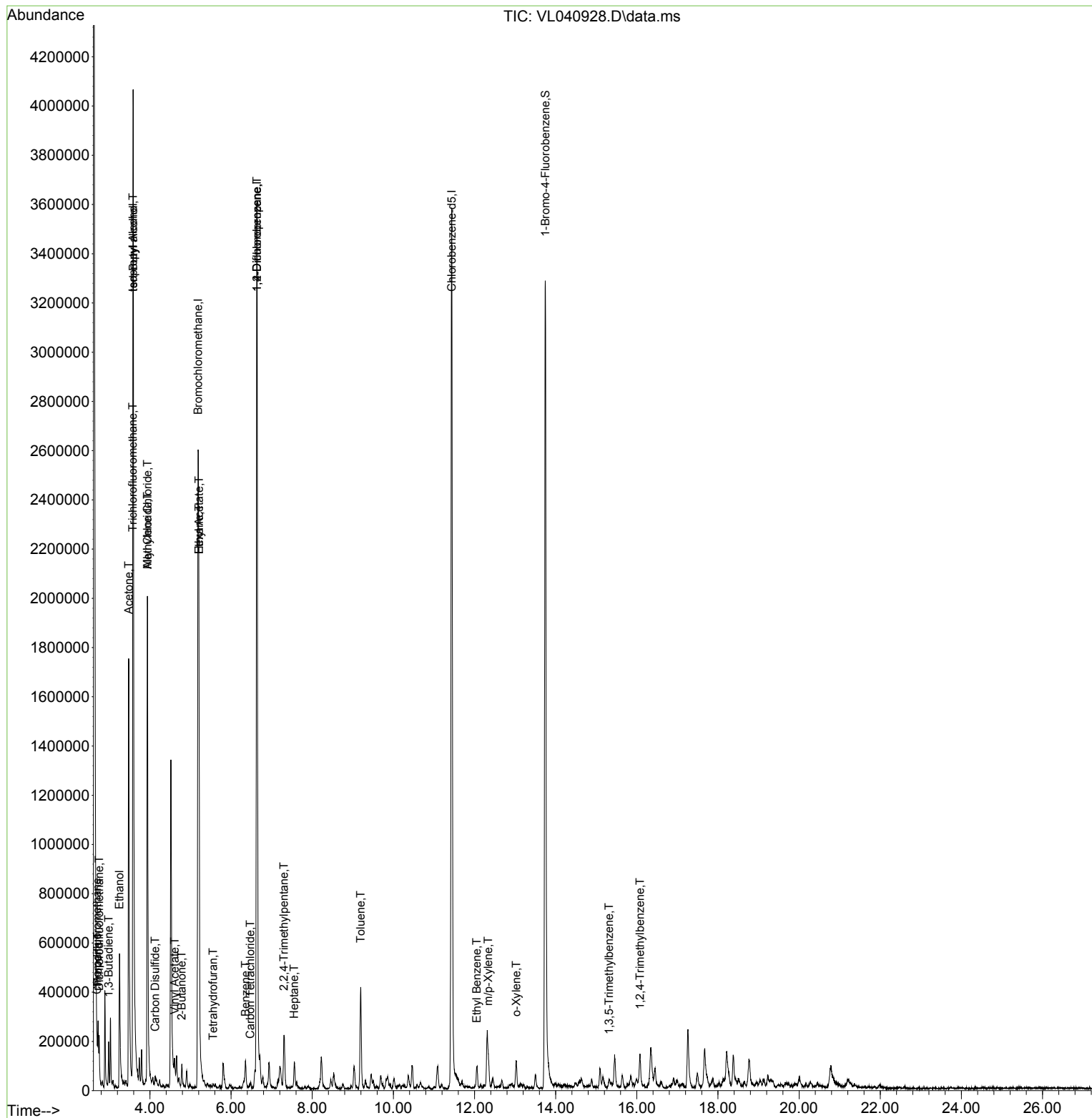
Internal Standards						
1) Bromochloromethane	5.185	49	1094580	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.636	114	2824408	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.436	117	2394051	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.745	95	1763402	10.000	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.000%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.748	85	106662	0.512	ppbv	98
3) Chlorodifluoromethane	2.697	51	78684	0.478	ppbv #	77
9) Propene	2.716	41	67790	1.247	ppbv	89
10) Heptane	7.555	43	41961	0.311	ppbv	91
11) Trichlorofluoromethane	3.575	101	37060	0.227	ppbv	89
13) Ethanol	3.250	45	541837	39.518	ppbv	100
15) Acetone	3.475	43	1764158	13.438	ppbv	98
16) 1,3-Butadiene	2.983	39	47099	0.833	ppbv #	19
17) tert-Butyl alcohol	3.587	59	155144	1.598	ppbv	99
19) Isopropyl Alcohol	3.584	45	4363877	63.706	ppbv #	98
20) Methylene Chloride	3.941	84	660787	14.121	ppbv	97
21) Allyl Chloride	3.941	41	23009	0.297	ppbv #	18
23) Vinyl Acetate	4.610	43	19093	0.132	ppbv #	9
25) Ethyl Acetate	5.208	43	479374	2.107	ppbv #	82
26) Hexane	5.208	57	607092	6.022	ppbv #	42
27) Carbon Disulfide	4.131	76	34798	0.255	ppbv #	78
34) 2-Butanone	4.784	43	92878	0.622	ppbv	94
35) Carbon Tetrachloride	6.475	117	11380	0.064	ppbv #	95
36) Benzene	6.356	78	79595	0.360	ppbv #	89
39) 1,2-Dichloropropane	6.636	63	675885	7.790	ppbv #	24
41) Tetrahydrofuran	5.558	42	4465	0.049	ppbv #	71
44) 2,2,4-Trimethylpentane	7.304	57	113295	0.302	ppbv #	43
53) Toluene	9.195	91	239720	0.979	ppbv	100
58) Ethyl Benzene	12.053	91	42018	0.137	ppbv	100
59) m/p-Xylene	12.336	91	66232	0.253	ppbv #	100
60) o-Xylene	13.031	91	47543	0.193	ppbv #	31
73) 1,3,5-Trimethylbenzene	15.317	105	11496	0.049	ppbv	96
74) 1,2,4-Trimethylbenzene	16.079	105	20331	0.078	ppbv #	62

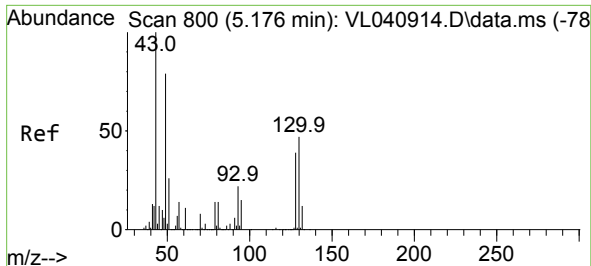
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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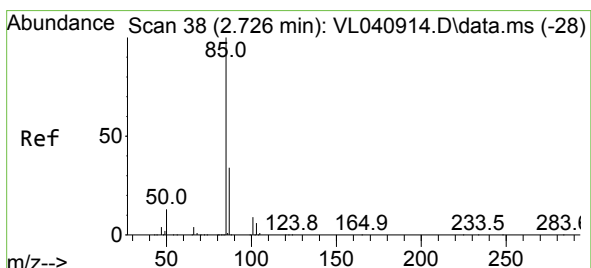
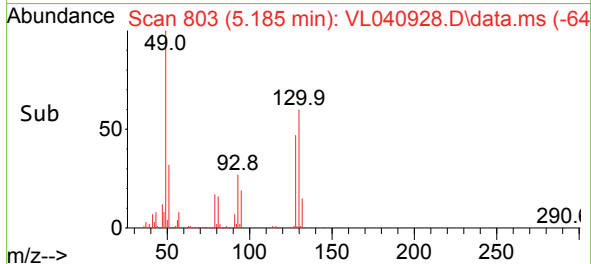
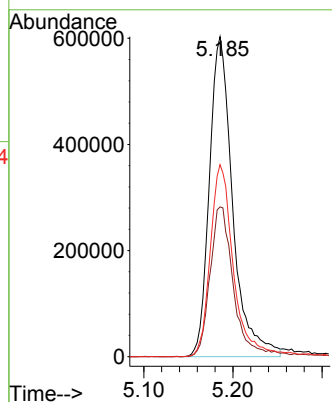
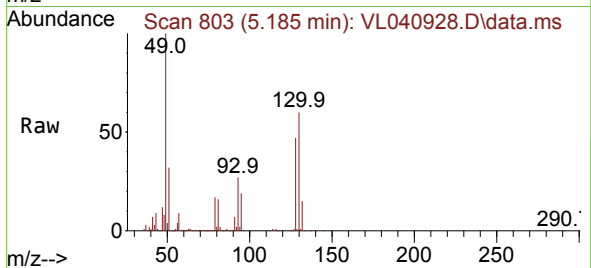




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.185 min Scan# 80
 Delta R.T. 0.009 min
 Lab File: VL040928.D
 Acq: 21 Dec 2023 13:52

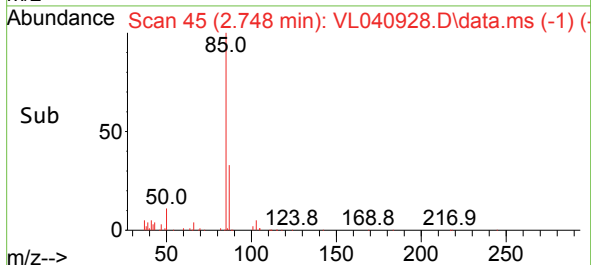
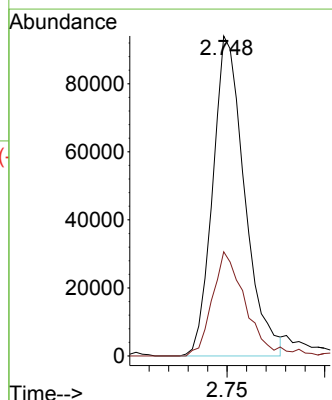
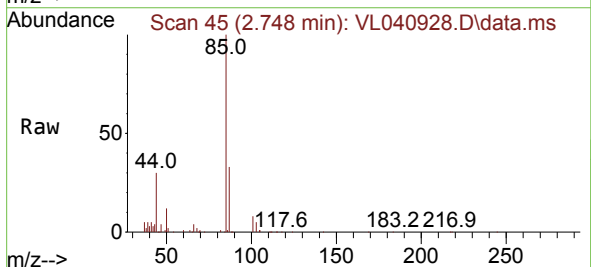
Instrument :
 MSVOA_L
 ClientSampleId :
 10439

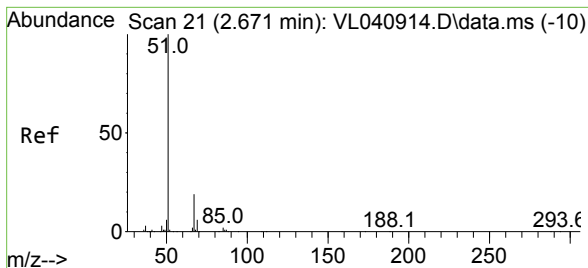
Tgt Ion: 49 Resp: 1094580
 Ion Ratio Lower Upper
 49 100
 128 48.3 23.8 71.2
 130 61.2 30.1 90.5



#2
 Dichlorodifluoromethane
 Concen: 0.512 ppbv
 RT: 2.748 min Scan# 45
 Delta R.T. 0.023 min
 Lab File: VL040928.D
 Acq: 21 Dec 2023 13:52

Tgt Ion: 85 Resp: 106662
 Ion Ratio Lower Upper
 85 100
 87 32.5 27.0 40.6

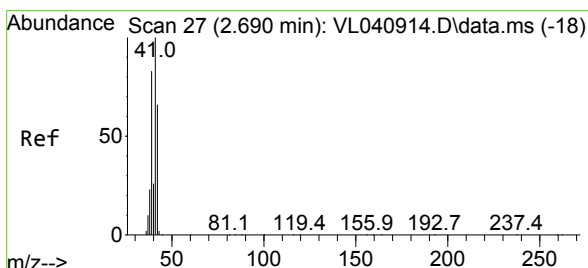
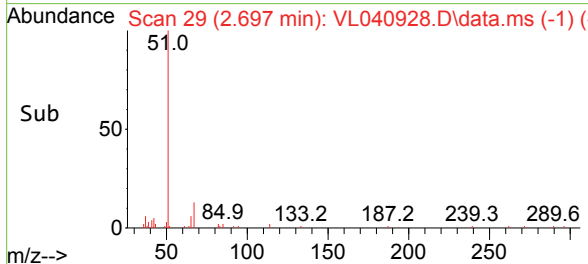
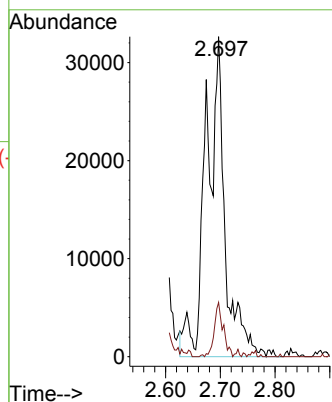
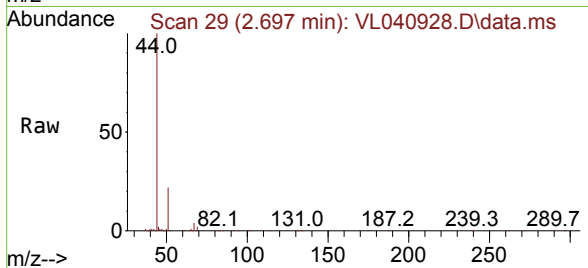




#3
Chlorodifluoromethane
Concen: 0.478 ppbv
RT: 2.697 min Scan# 24
Delta R.T. 0.026 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

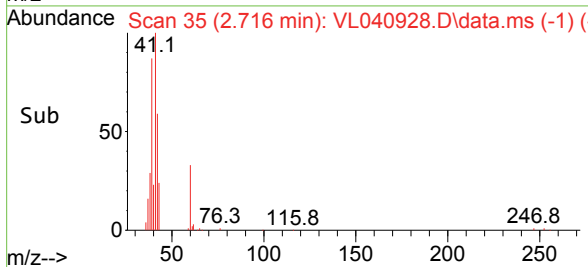
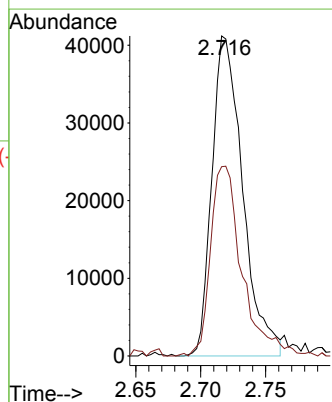
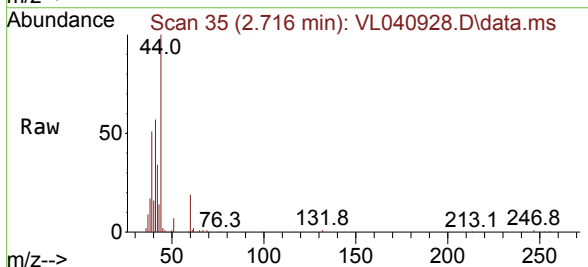
Instrument :
MSVOA_L
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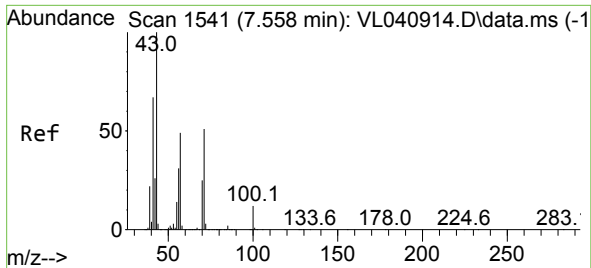
Tgt Ion: 51 Resp: 78684
Ion Ratio Lower Upper
51 100
67 8.0 14.7 22.1#



#9
Propene
Concen: 1.247 ppbv
RT: 2.716 min Scan# 35
Delta R.T. 0.026 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

Tgt Ion: 41 Resp: 67790
Ion Ratio Lower Upper
41 100
42 60.7 55.8 83.6

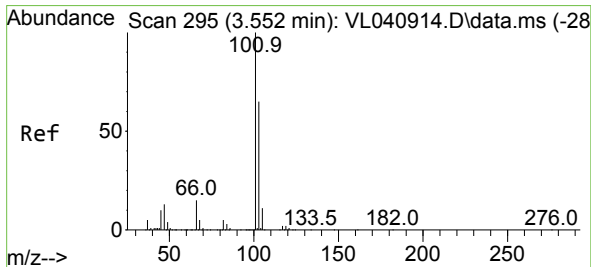
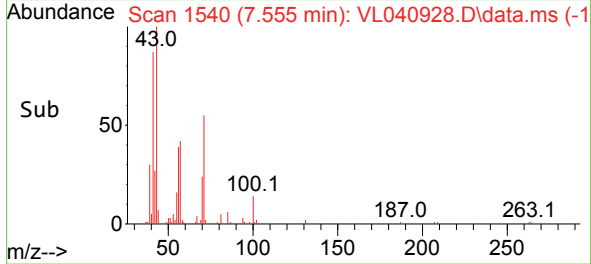
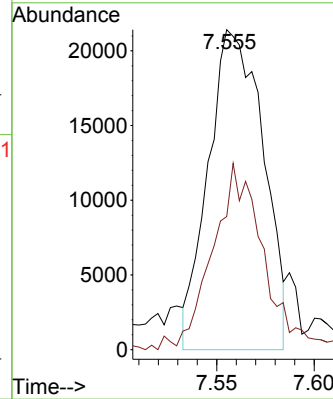
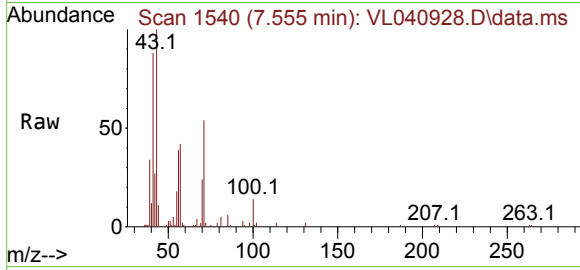




#10
Heptane
Concen: 0.311 ppbv
RT: 7.555 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

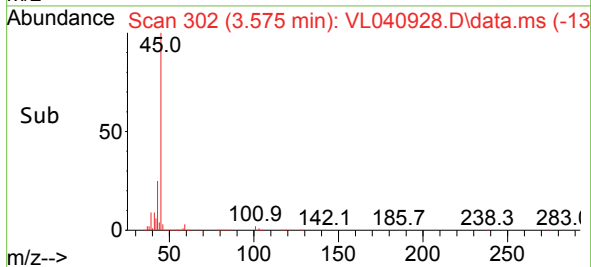
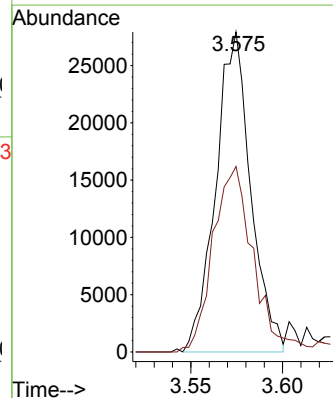
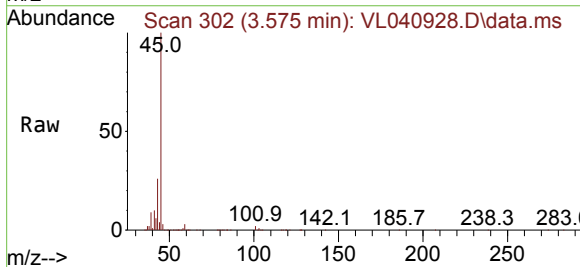
Instrument :
MSVOA_L
ClientSampleId :
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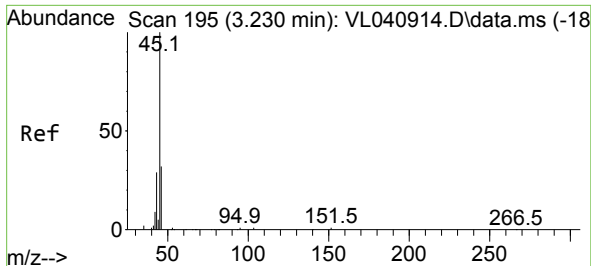
Tgt Ion: 43 Resp: 41961
Ion Ratio Lower Upper
43 100
57 55.1 39.3 58.9



#11
Trichlorofluoromethane
Concen: 0.227 ppbv
RT: 3.575 min Scan# 302
Delta R.T. 0.023 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

Tgt Ion:101 Resp: 37060
Ion Ratio Lower Upper
101 100
103 56.5 51.9 77.9

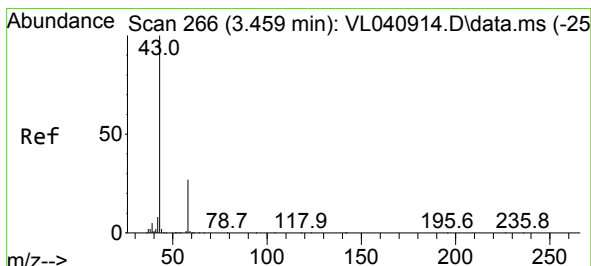
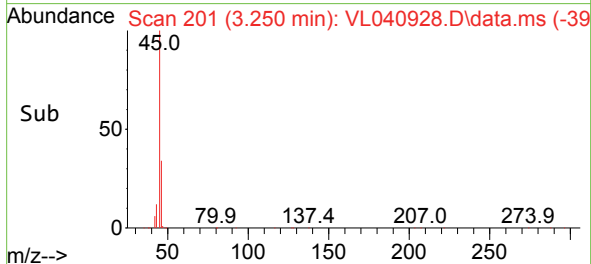
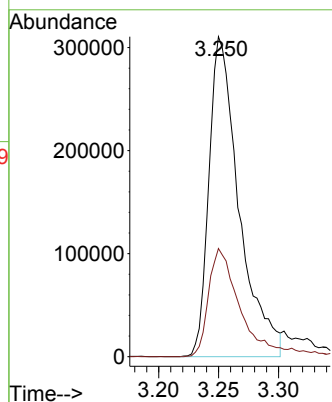
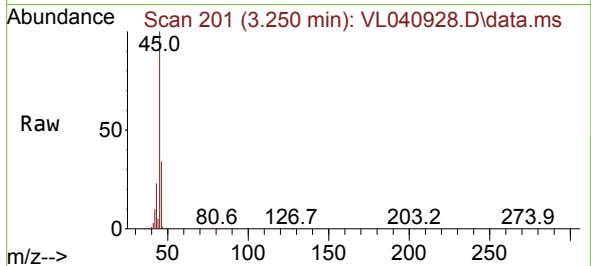




#13
Ethanol
Concen: 39.518 ppbv
RT: 3.250 min Scan# 201
Delta R.T. 0.019 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

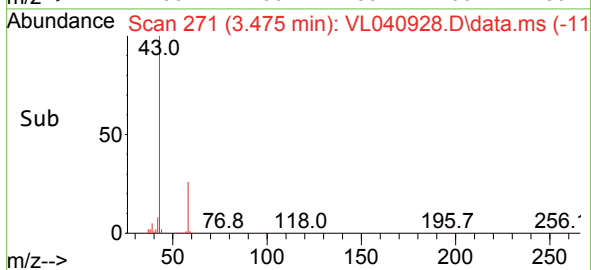
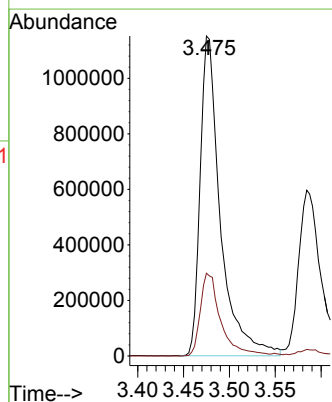
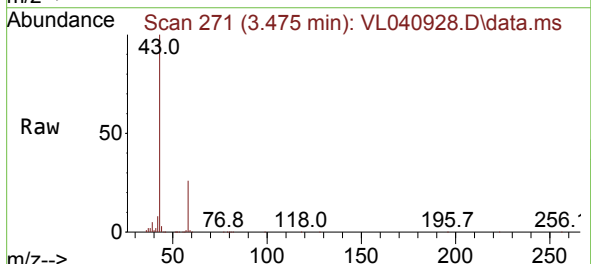
Instrument :
MSVOA_L
ClientSampleId :
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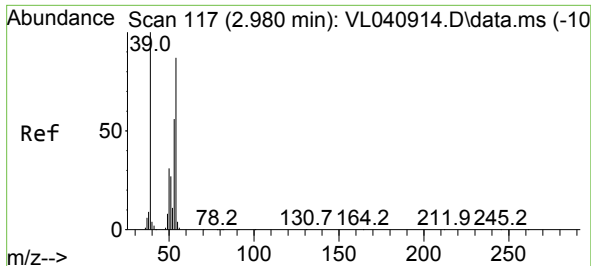
Tgt Ion: 45 Resp: 541837
Ion Ratio Lower Upper
45 100
46 37.7 15.0 60.0



#15
Acetone
Concen: 13.438 ppbv
RT: 3.475 min Scan# 271
Delta R.T. 0.016 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

Tgt Ion: 43 Resp: 1764158
Ion Ratio Lower Upper
43 100
58 26.6 20.6 30.8

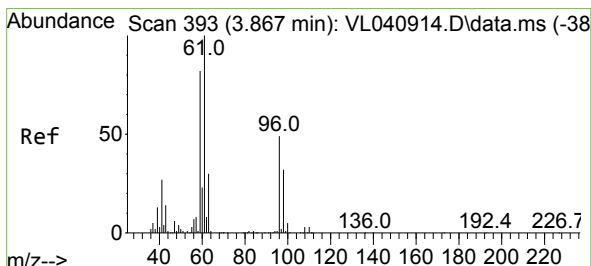
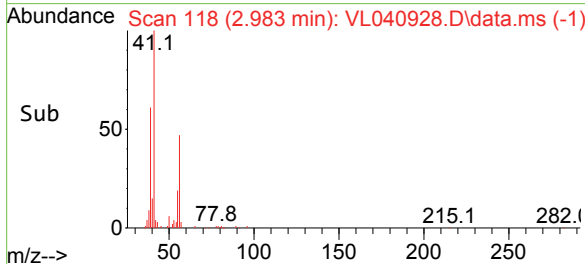
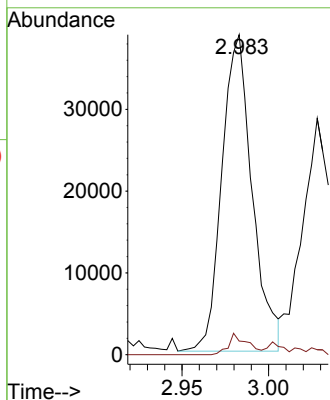
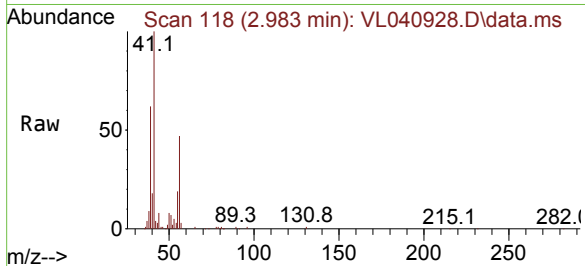




#16
1,3-Butadiene
Concen: 0.833 ppbv
RT: 2.983 min Scan# 117
Delta R.T. 0.003 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

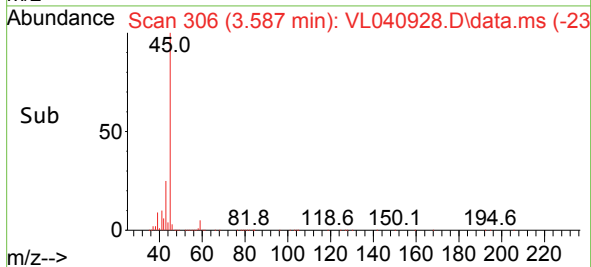
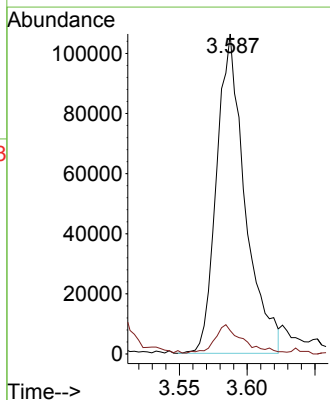
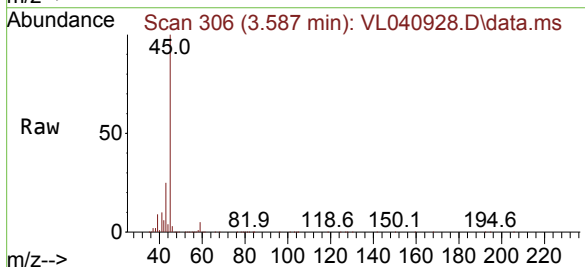
Instrument :
MSVOA_L
ClientSampleId :
10439

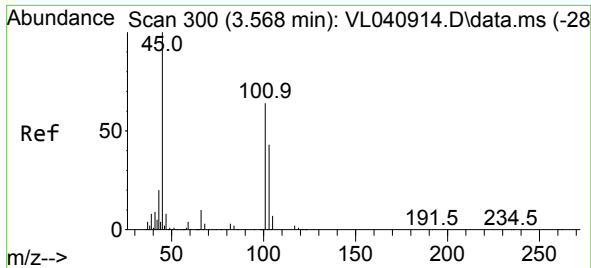
Tgt Ion: 39 Resp: 47099
Ion Ratio Lower Upper
39 100
54 8.1 63.8 95.6#



#17
tert-Butyl alcohol
Concen: 1.598 ppbv
RT: 3.587 min Scan# 306
Delta R.T. -0.280 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

Tgt Ion: 59 Resp: 155144
Ion Ratio Lower Upper
59 100
57 10.1 8.3 12.5





#19

Isopropyl Alcohol

Concen: 63.706 ppbv

RT: 3.584 min Scan# 300

Delta R.T. 0.016 min

Lab File: VL040928.D

Acq: 21 Dec 2023 13:52

Instrument :

MSVOA_L

ClientSampleId :

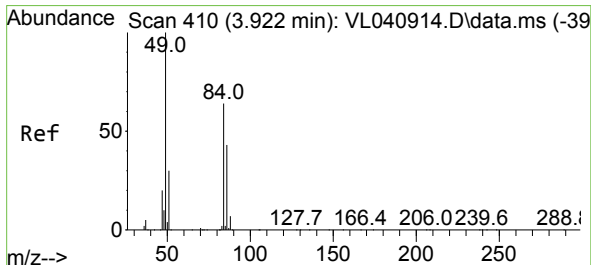
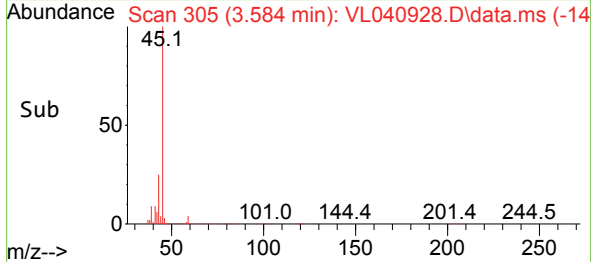
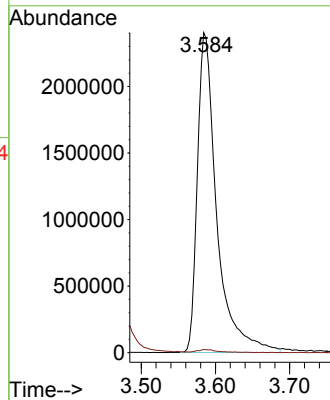
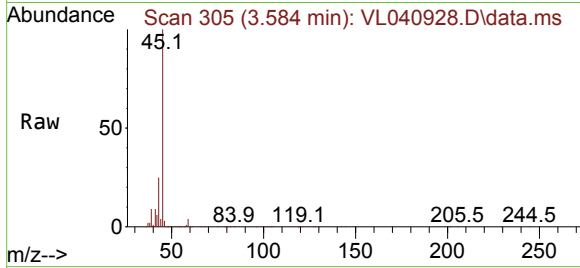
10439

Tgt Ion: 45 Resp: 4363877

Ion Ratio Lower Upper

45 100

58 1.2 1.5 2.3#



#20

Methylene Chloride

Concen: 14.121 ppbv

RT: 3.941 min Scan# 416

Delta R.T. 0.019 min

Lab File: VL040928.D

Acq: 21 Dec 2023 13:52

Tgt Ion: 84 Resp: 660787

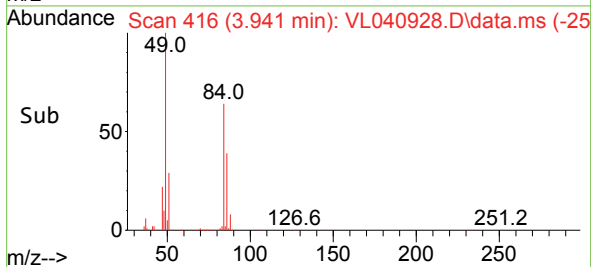
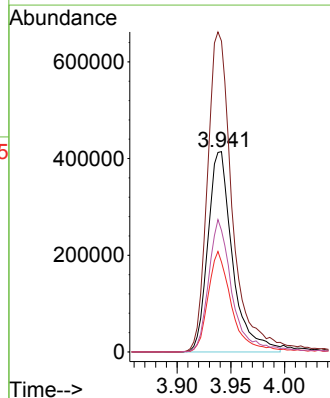
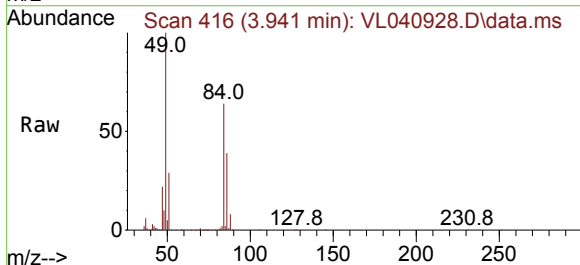
Ion Ratio Lower Upper

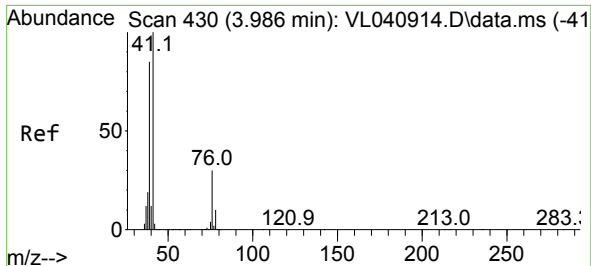
84 100

49 155.2 124.6 187.0

51 44.8 37.2 55.8

86 60.7 53.4 80.0

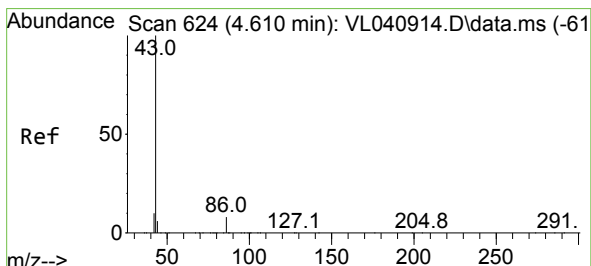
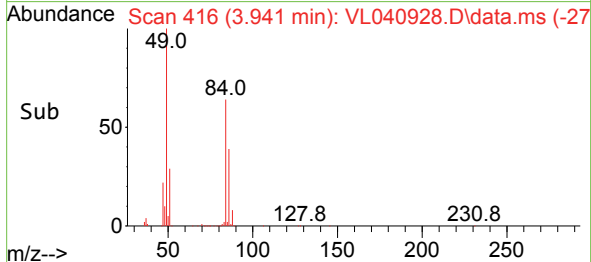
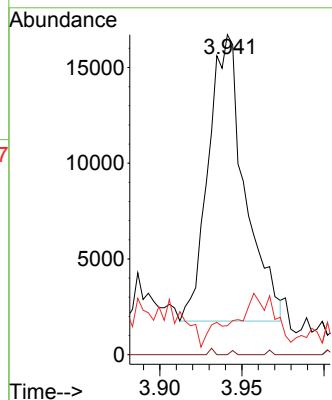
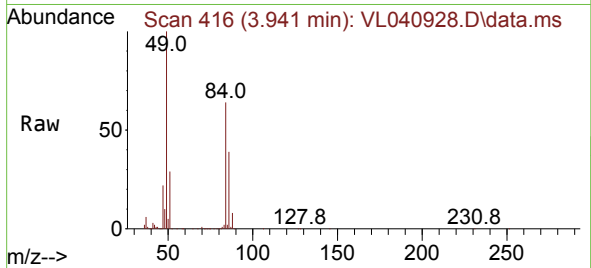




#21
 Allyl Chloride
 Concen: 0.297 ppbv
 RT: 3.941 min Scan# 41
 Delta R.T. -0.045 min
 Lab File: VL040928.D
 Acq: 21 Dec 2023 13:52

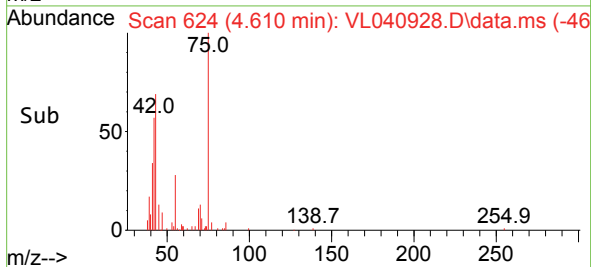
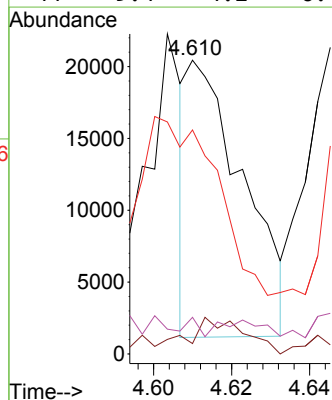
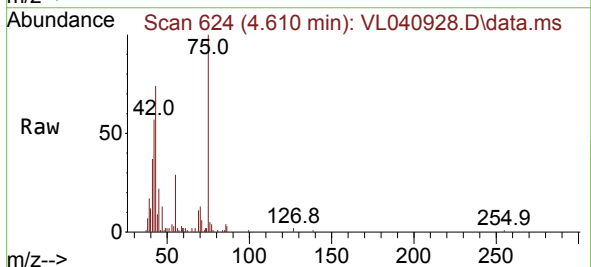
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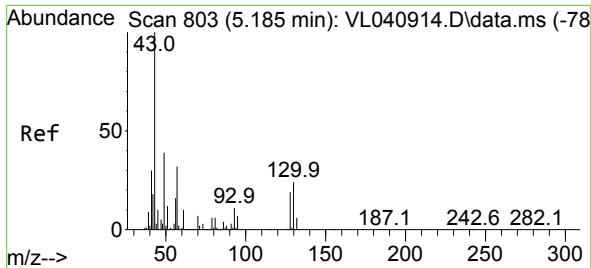
Tgt Ion: 41 Resp: 23009
 Ion Ratio Lower Upper
 41 100
 76 0.0 23.9 35.9#
 39 0.0 66.5 99.7#



#23
 Vinyl Acetate
 Concen: 0.132 ppbv
 RT: 4.610 min Scan# 624
 Delta R.T. 0.000 min
 Lab File: VL040928.D
 Acq: 21 Dec 2023 13:52

Tgt Ion: 43 Resp: 19093
 Ion Ratio Lower Upper
 43 100
 86 5.2 5.5 8.3#
 42 81.0 8.4 12.6#
 44 9.4 4.2 6.4#

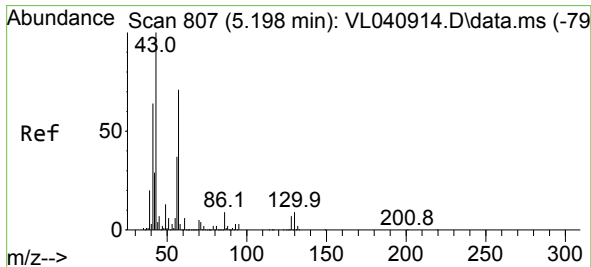
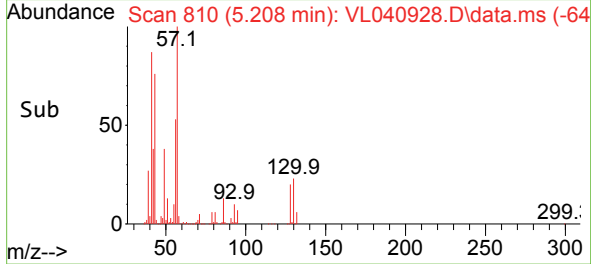
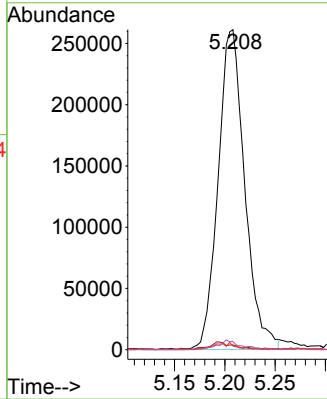
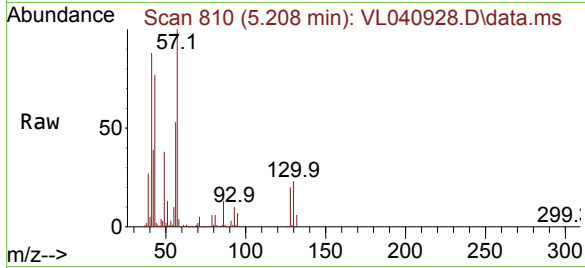




#25
Ethyl Acetate
Concen: 2.107 ppbv
RT: 5.208 min Scan# 810
Delta R.T. 0.023 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

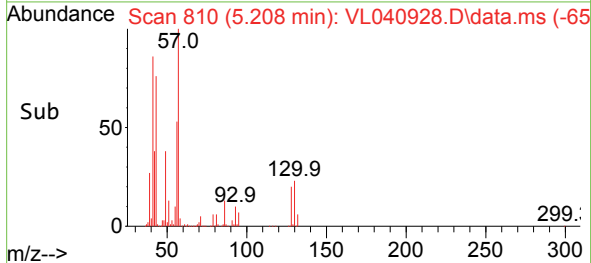
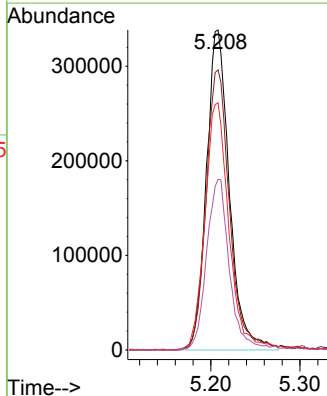
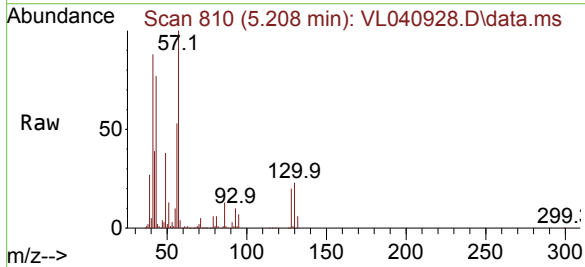
Instrument :
MSVOA_L
ClientSampleId :
10439

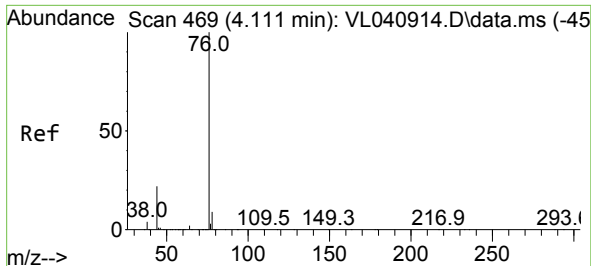
Tgt Ion: 43 Resp: 479374
Ion Ratio Lower Upper
43 100
45 2.7 8.2 12.2#
61 1.9 7.6 11.4#
70 2.8 5.4 8.2#



#26
Hexane
Concen: 6.022 ppbv
RT: 5.208 min Scan# 810
Delta R.T. 0.010 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

Tgt Ion: 57 Resp: 607092
Ion Ratio Lower Upper
57 100
41 90.4 75.2 112.8
43 81.0 188.0 282.0#
56 53.7 42.3 63.5

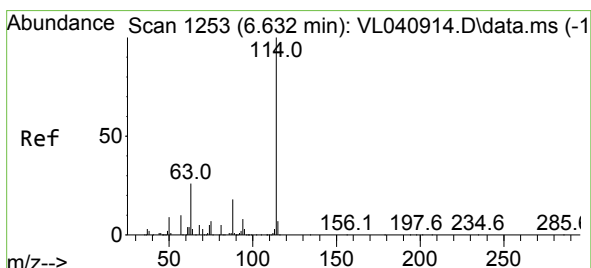
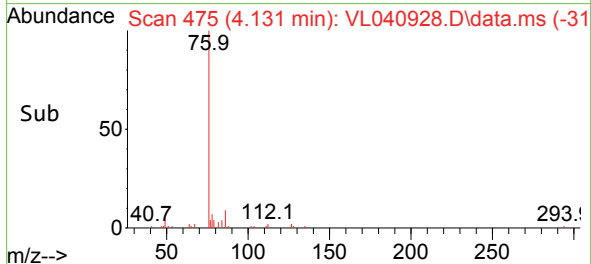
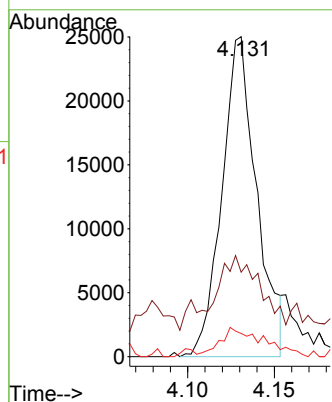
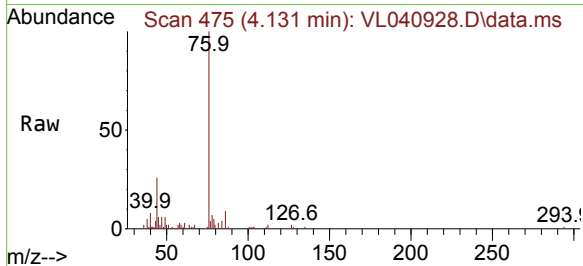




#27
Carbon Disulfide
Concen: 0.255 ppbv
RT: 4.131 min Scan# 41
Delta R.T. 0.019 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

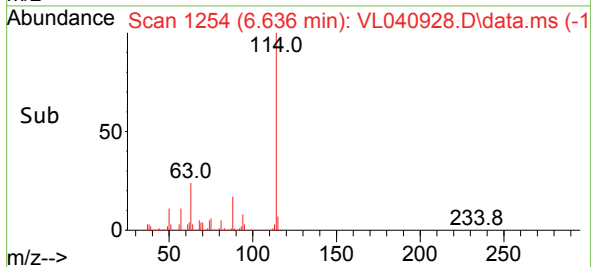
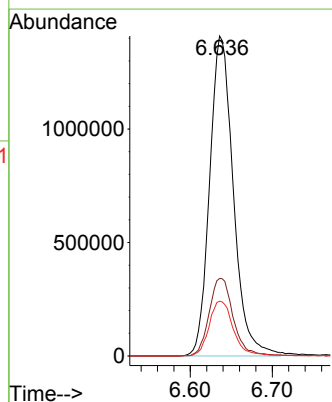
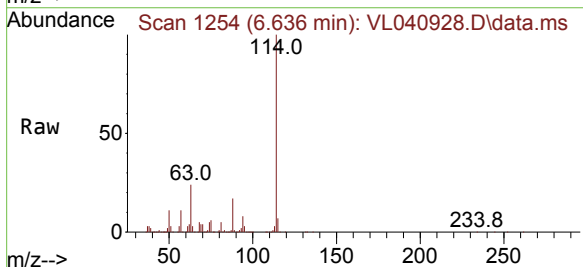
Instrument :
MSVOA_L
ClientSampleId :
10439

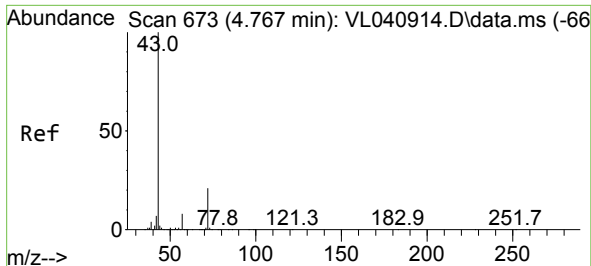
Tgt Ion: 76 Resp: 34798
Ion Ratio Lower Upper
76 100
44 36.7 18.4 27.6#
78 12.6 7.9 11.9#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.636 min Scan# 1254
Delta R.T. 0.003 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

Tgt Ion: 114 Resp: 2824408
Ion Ratio Lower Upper
114 100
63 25.0 21.0 31.6
88 17.6 14.3 21.5

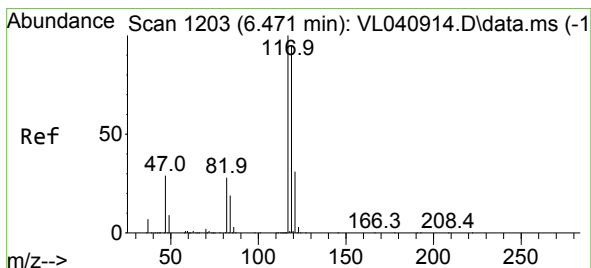
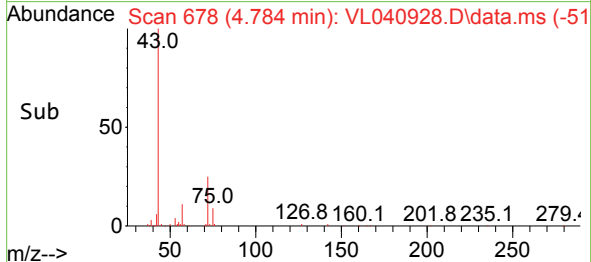
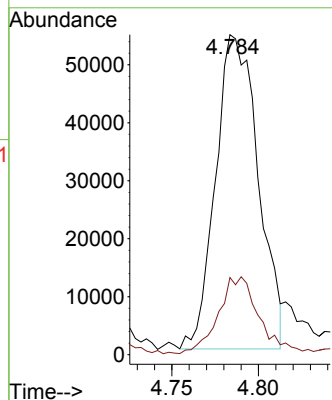
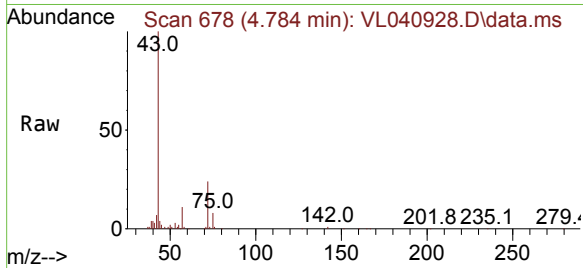




#34
2-Butanone
Concen: 0.622 ppbv
RT: 4.784 min Scan# 61
Delta R.T. 0.016 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

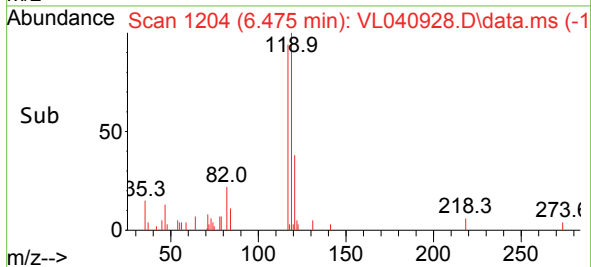
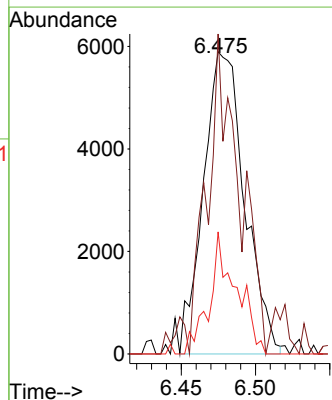
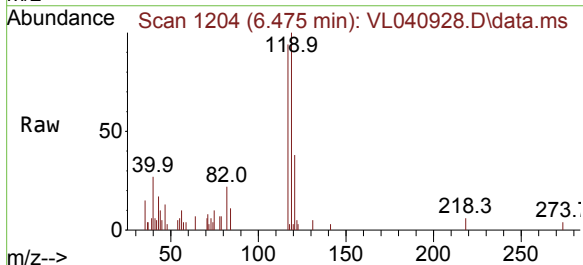
Instrument :
MSVOA_L
ClientSampleId :
10439

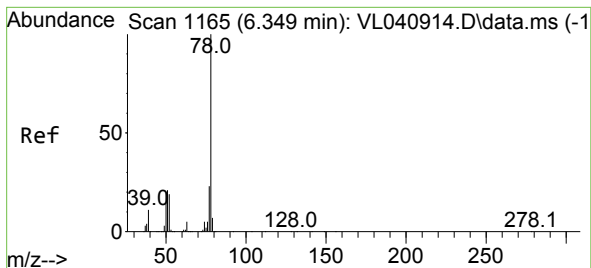
Tgt Ion: 43 Resp: 92878
Ion Ratio Lower Upper
43 100
72 24.2 17.2 25.8



#35
Carbon Tetrachloride
Concen: 0.064 ppbv
RT: 6.475 min Scan# 1204
Delta R.T. 0.003 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

Tgt Ion: 117 Resp: 11380
Ion Ratio Lower Upper
117 100
119 94.6 76.3 114.5
121 40.4 24.9 37.3#





#36

Benzene

Concen: 0.360 ppbv

RT: 6.356 min Scan# 1167

Delta R.T. 0.007 min

Lab File: VL040928.D

Acq: 21 Dec 2023 13:52

Instrument :

MSVOA_L

ClientSampleId :

10439

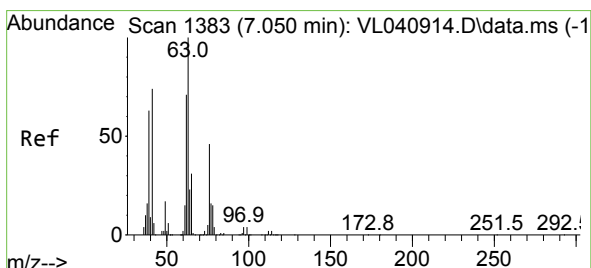
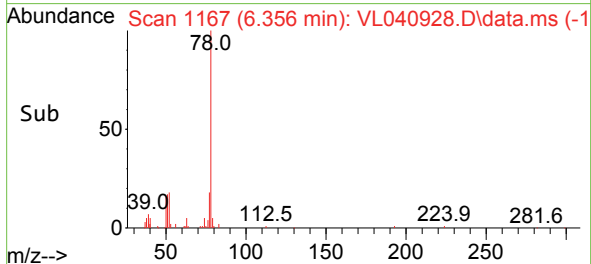
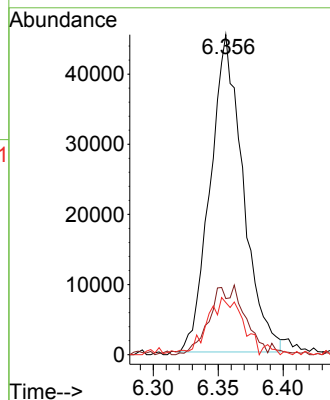
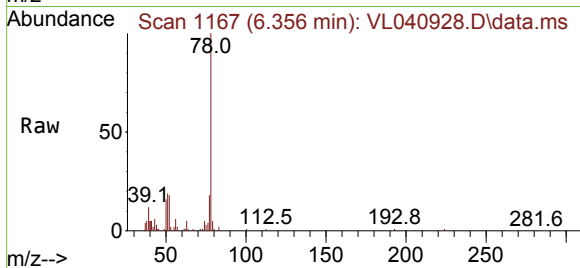
Tgt Ion: 78 Resp: 79595

Ion Ratio Lower Upper

78 100

77 16.3 18.4 27.6#

50 16.5 16.0 24.0



#39

1,2-Dichloropropane

Concen: 7.790 ppbv

RT: 6.636 min Scan# 1254

Delta R.T. -0.415 min

Lab File: VL040928.D

Acq: 21 Dec 2023 13:52

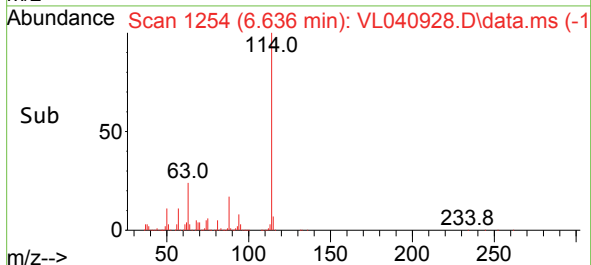
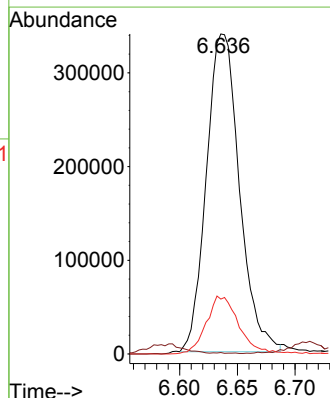
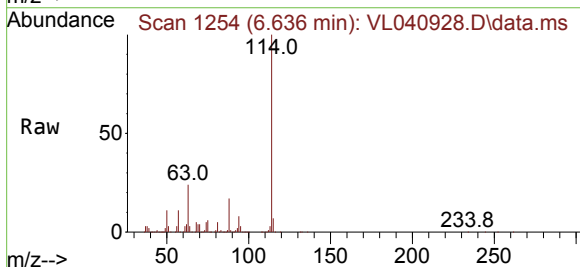
Tgt Ion: 63 Resp: 675885

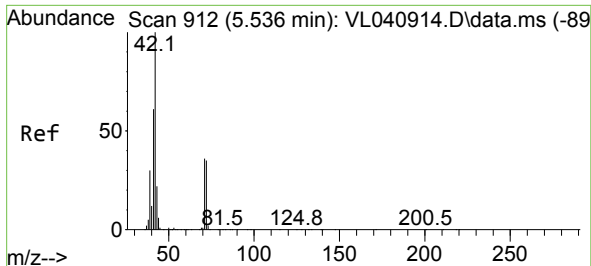
Ion Ratio Lower Upper

63 100

41 0.0 59.0 88.6#

62 17.0 56.6 85.0#





#41

Tetrahydrofuran

Concen: 0.049 ppbv

RT: 5.558 min Scan# 912

Delta R.T. 0.023 min

Lab File: VL040928.D

Acq: 21 Dec 2023 13:52

Instrument :

MSVOA_L

ClientSampleId :

10439

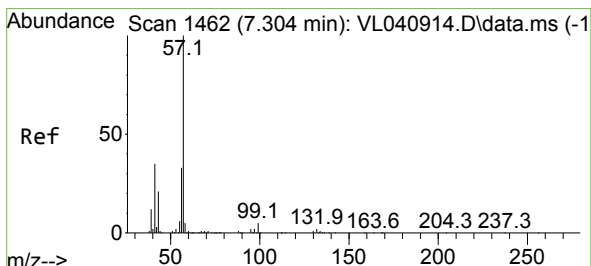
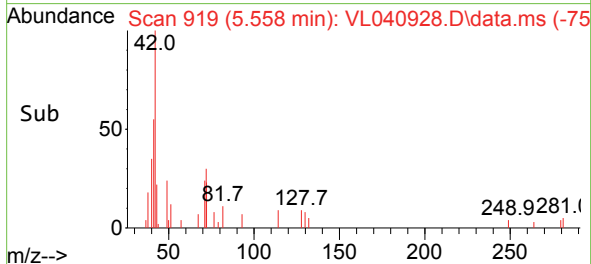
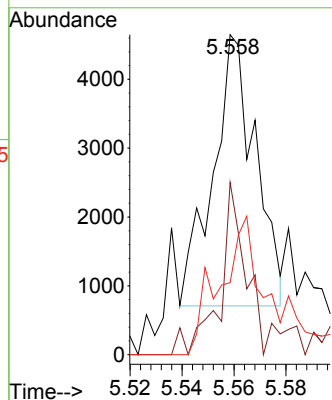
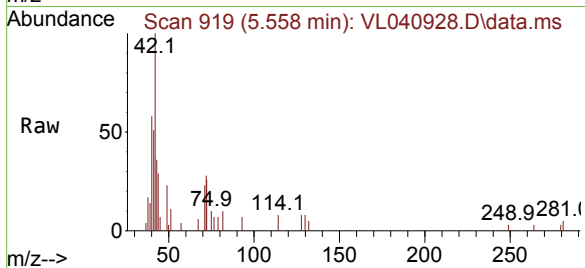
Tgt Ion: 42 Resp: 4465

Ion Ratio Lower Upper

42 100

72 44.7 29.6 44.4#

71 63.2 29.1 43.7#



#44

2,2,4-Trimethylpentane

Concen: 0.302 ppbv

RT: 7.304 min Scan# 1462

Delta R.T. 0.000 min

Lab File: VL040928.D

Acq: 21 Dec 2023 13:52

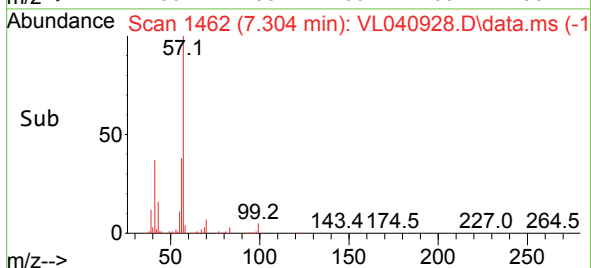
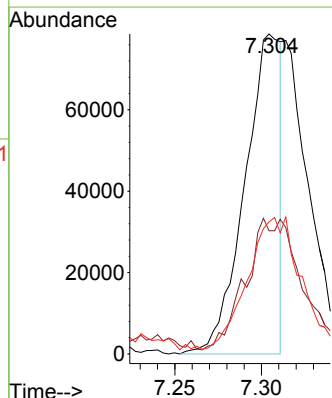
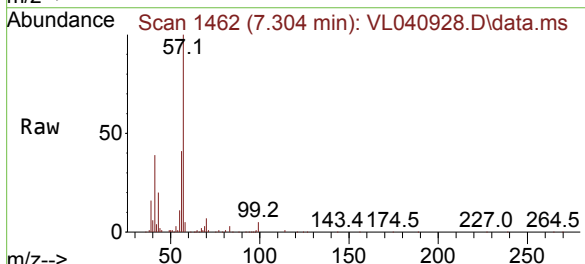
Tgt Ion: 57 Resp: 113295

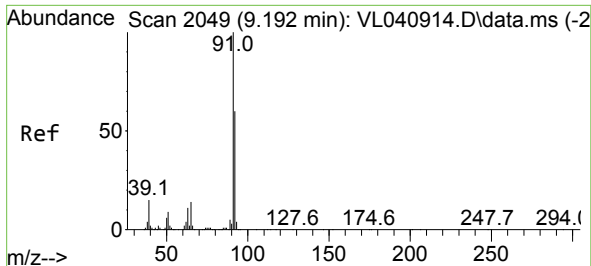
Ion Ratio Lower Upper

57 100

41 68.6 28.2 42.4#

56 0.0 25.3 37.9#

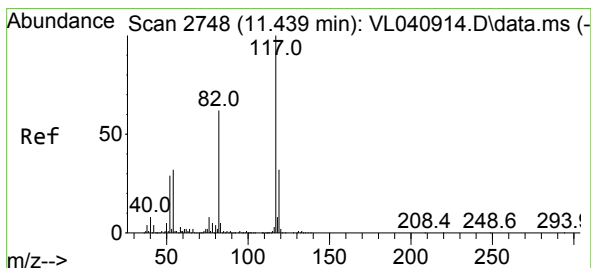
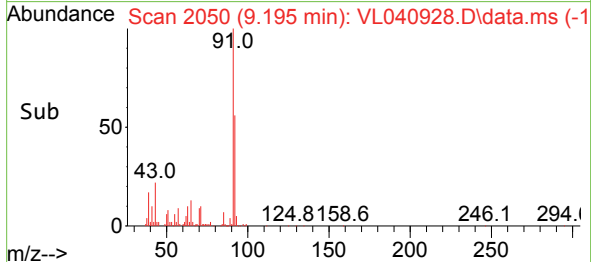
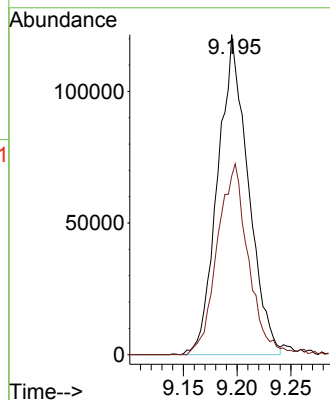
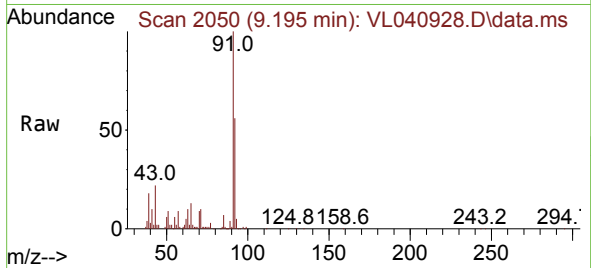




#53
Toluene
Concen: 0.979 ppbv
RT: 9.195 min Scan# 2049
Delta R.T. 0.003 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

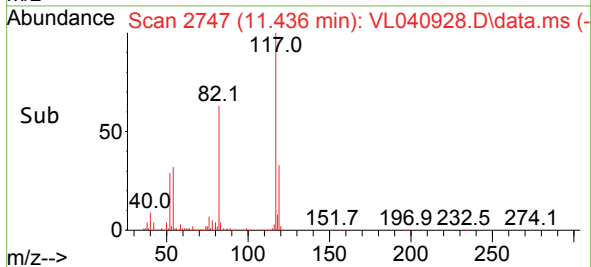
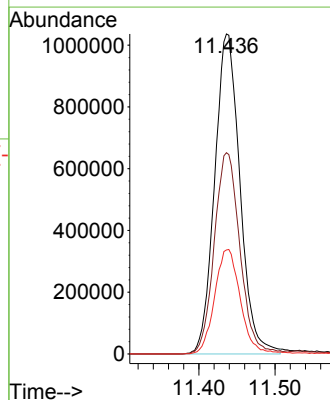
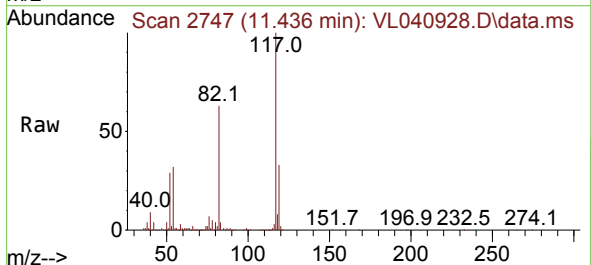
Instrument :
MSVOA_L
ClientSampleId :
10439

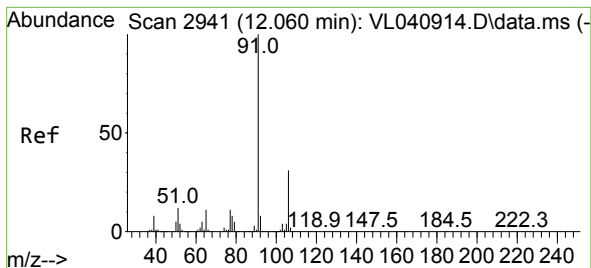
Tgt Ion: 91 Resp: 239720
Ion Ratio Lower Upper
91 100
92 61.1 49.2 73.8



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.436 min Scan# 2747
Delta R.T. -0.003 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

Tgt Ion: 117 Resp: 2394051
Ion Ratio Lower Upper
117 100
82 65.5 49.6 74.4
119 33.4 23.4 35.0





#58

Ethyl Benzene

Concen: 0.137 ppbv

RT: 12.053 min Scan# 2941

Delta R.T. -0.006 min

Lab File: VL040928.D

Acq: 21 Dec 2023 13:52

Instrument :

MSVOA_L

ClientSampleId :

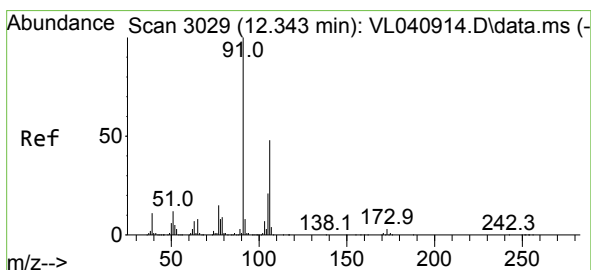
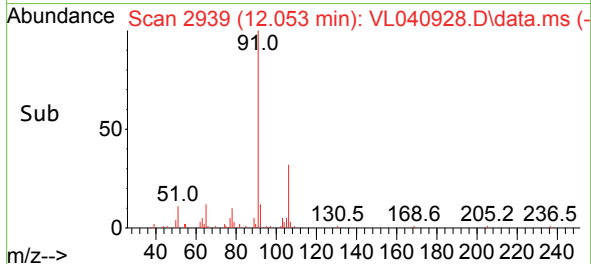
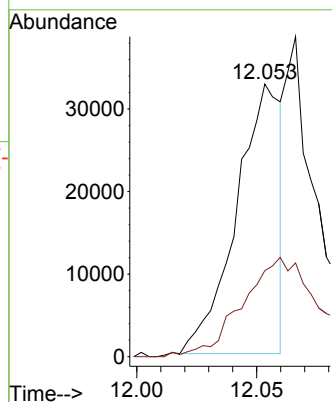
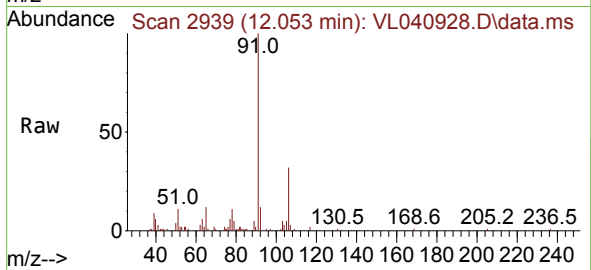
10439

Tgt Ion: 91 Resp: 42018

Ion Ratio Lower Upper

91 100

106 31.2 24.9 37.3



#59

m/p-Xylene

Concen: 0.253 ppbv

RT: 12.336 min Scan# 3027

Delta R.T. -0.006 min

Lab File: VL040928.D

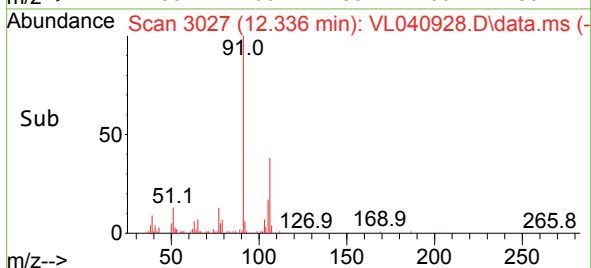
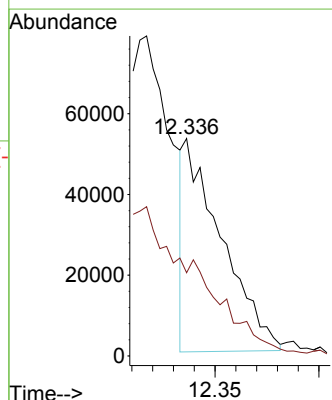
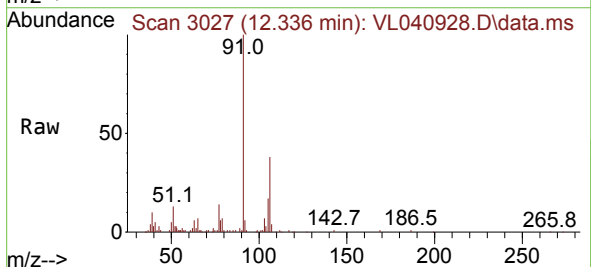
Acq: 21 Dec 2023 13:52

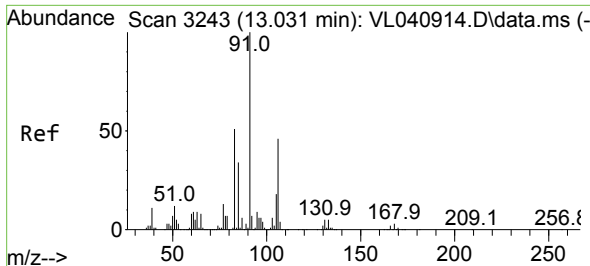
Tgt Ion: 91 Resp: 66232

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0

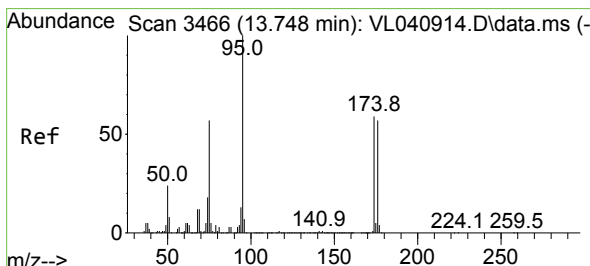
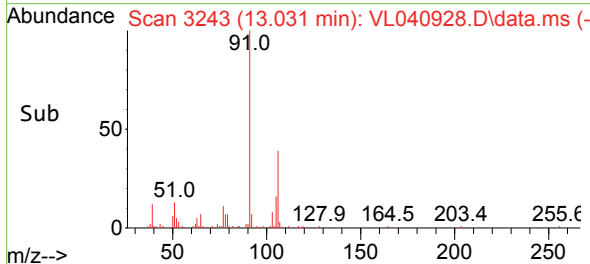
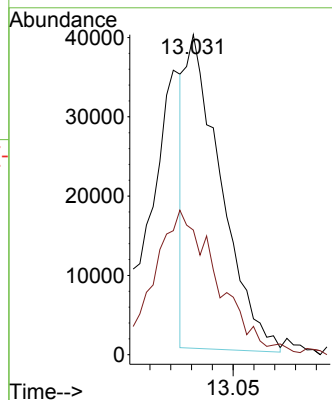
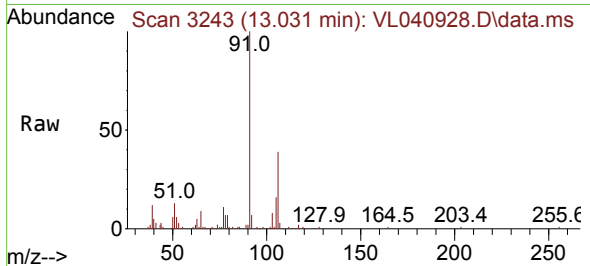




#60
o-Xylene
Concen: 0.193 ppbv
RT: 13.031 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

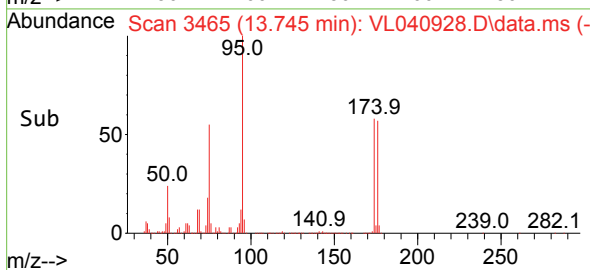
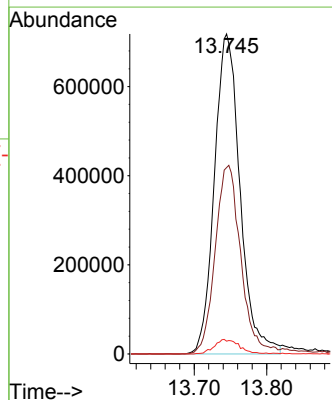
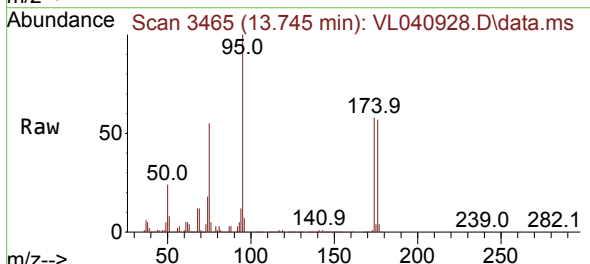
Instrument :
MSVOA_L
ClientSampleId :
10439

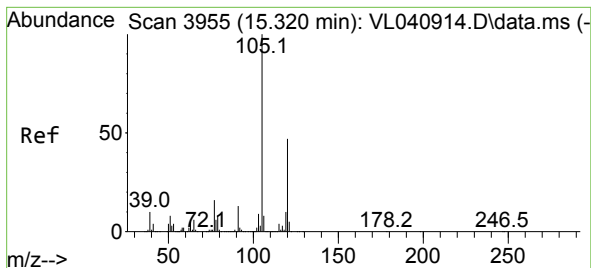
Tgt Ion: 91 Resp: 47543
Ion Ratio Lower Upper
91 100
106 0.0 22.6 67.7#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.000 ppbv
RT: 13.745 min Scan# 3465
Delta R.T. -0.003 min
Lab File: VL040928.D
Acq: 21 Dec 2023 13:52

Tgt Ion: 95 Resp: 1763402
Ion Ratio Lower Upper
95 100
174 60.7 48.0 72.0
175 4.5 3.7 5.5





#73

1,3,5-Trimethylbenzene

Concen: 0.049 ppbv

RT: 15.317 min Scan# 3954

Delta R.T. -0.003 min

Lab File: VL040928.D

Acq: 21 Dec 2023 13:52

Instrument :

MSVOA_L

ClientSampleId :

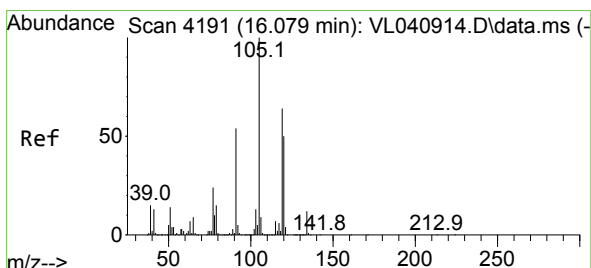
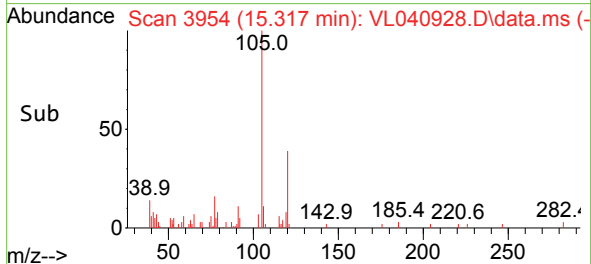
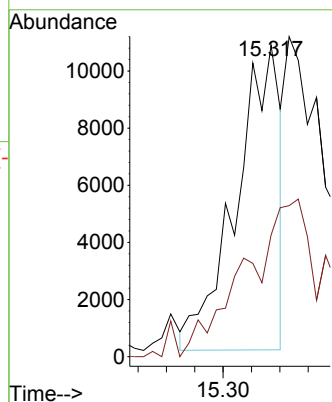
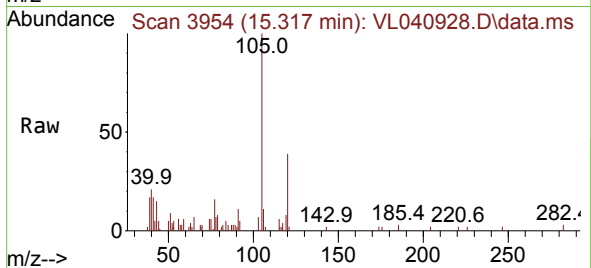
10439

Tgt Ion:105 Resp: 11496

Ion Ratio Lower Upper

105 100

120 44.6 37.8 56.8



#74

1,2,4-Trimethylbenzene

Concen: 0.078 ppbv

RT: 16.079 min Scan# 4191

Delta R.T. 0.000 min

Lab File: VL040928.D

Acq: 21 Dec 2023 13:52

Tgt Ion:105 Resp: 20331

Ion Ratio Lower Upper

105 100

120 49.7 40.2 60.4

91 0.0 43.0 64.6#

77 39.6 18.9 28.3#

