

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121322\Reviewed data\
 Data File : VL040016.D
 Acq On : 13 Dec 2022 22:11
 Operator : SY/MD
 Sample : N5971-01DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-4DL

Quant Time: Dec 21 15:07:19 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Dec 02 23:21:36 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.179	49	1164132	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.639	114	3202617	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.458	117	2807342	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.770	95	2128553	9.927	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.719	85	8176	0.049	ppbv	95
3) Chlorodifluoromethane	2.661	51	6375	0.040	ppbv	95
4) Chloromethane	2.783	50	45489	0.443	ppbv #	42
6) Bromomethane	3.102	94	973	0.036	ppbv	85
7) Chloroethane	2.828	64	2570	0.081	ppbv #	79
8) Dichlorotetrafluoroethane	2.783	85	263725	1.385	ppbv #	16
9) Propene	2.857	41	86069	1.137	ppbv	96
10) Heptane	7.571	43	10753	0.059	ppbv #	27
13) Ethanol	3.227	45	294468	50.971	ppbv	95
15) Acetone	3.455	43	1457114	9.437	ppbv	98
16) 1,3-Butadiene	2.951	39	67458	0.877	ppbv #	31
19) Isopropyl Alcohol	3.578	45	31994	0.383	ppbv #	1
20) Methylene Chloride	3.922	84	34028	0.455	ppbv #	92
23) Vinyl Acetate	4.600	43	5172	0.082	ppbv #	1
25) Ethyl Acetate	5.201	43	27209	0.096	ppbv #	82
26) Hexane	5.198	57	42275	0.341	ppbv #	41
30) Cyclohexane	6.594	84	7458	0.061	ppbv #	1
36) Benzene	6.359	78	50500	0.186	ppbv #	94
39) 1,2-Dichloropropane	6.639	63	774354	7.301	ppbv #	27
53) Toluene	9.208	91	37231	0.120	ppbv #	51
61) Styrene	12.889	104	3696	0.020	ppbv #	3

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

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Instrument :
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ClientSampleId :
SS-4DL

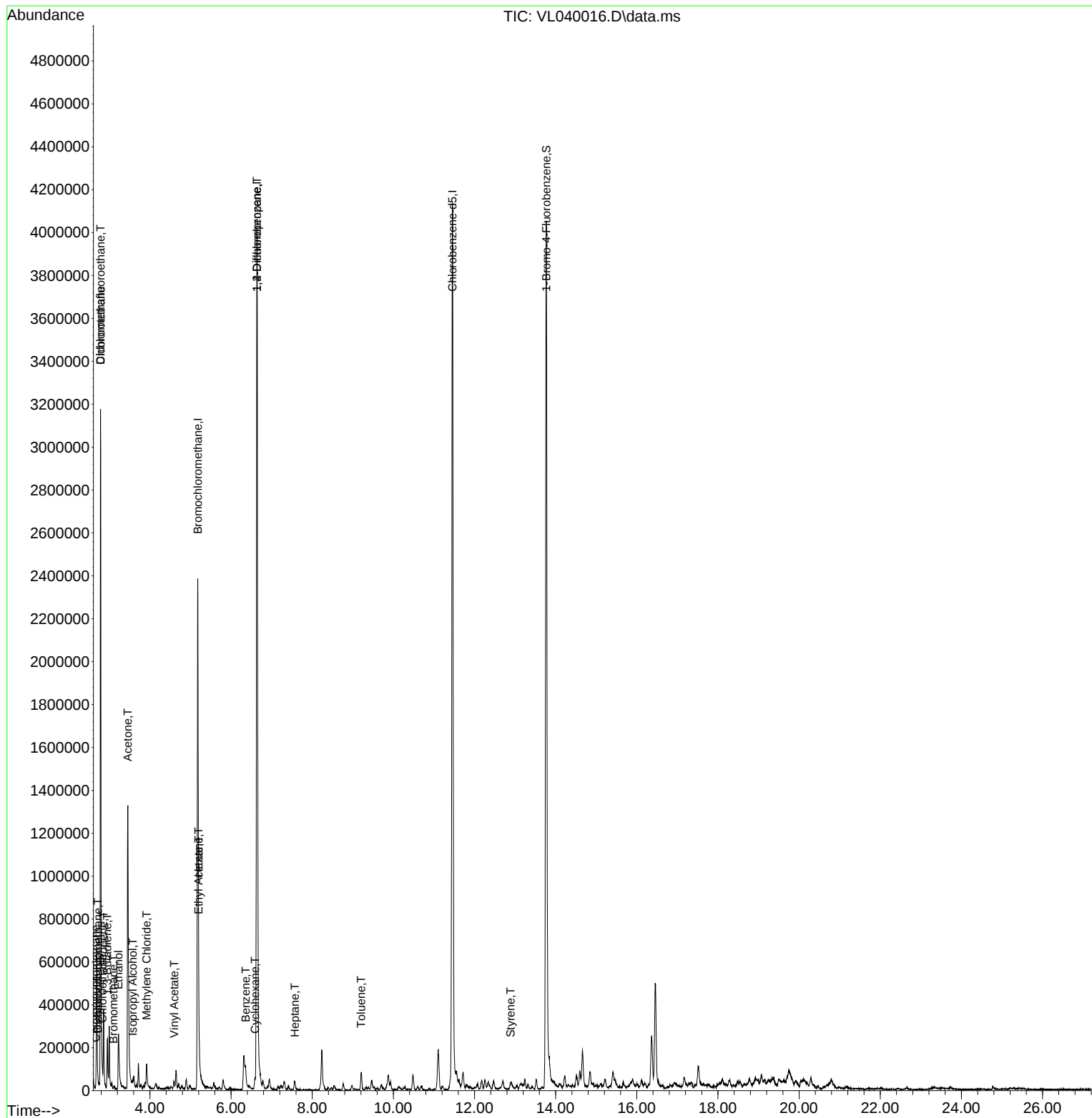
Quant Time: Dec 21 15:07:19 2022

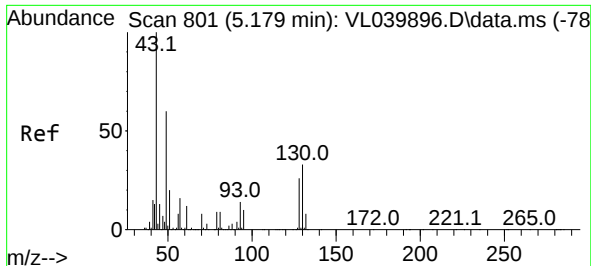
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

QLast Update : Fri Dec 02 23:21:36 2022

Response via : Initial Calibration

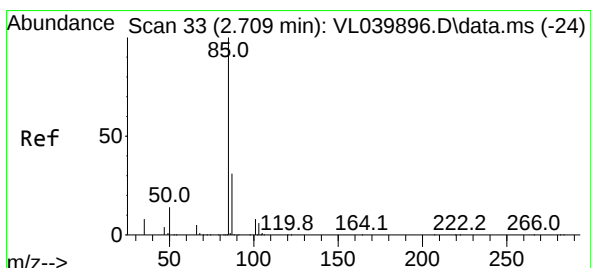
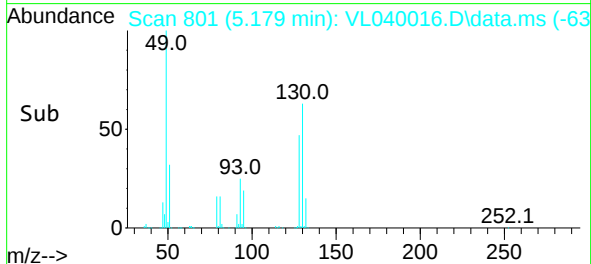
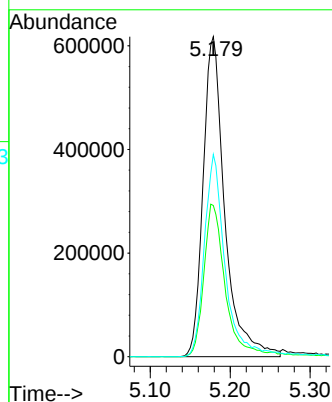
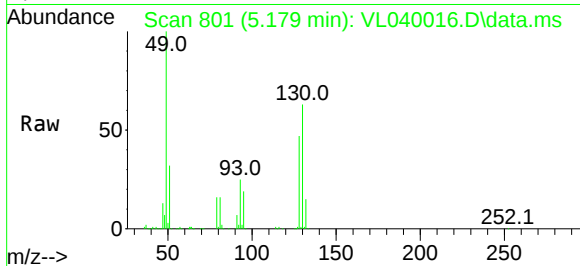




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.179 min Scan# 80
Delta R.T. 0.023 min
Lab File: VL040016.D
Acq: 13 Dec 2022 22:11

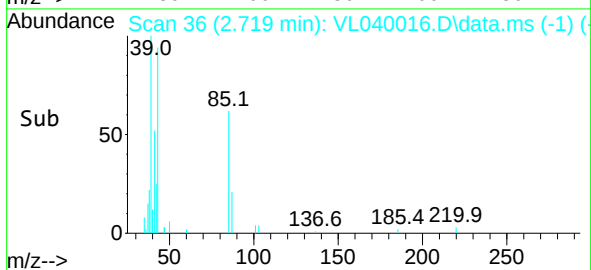
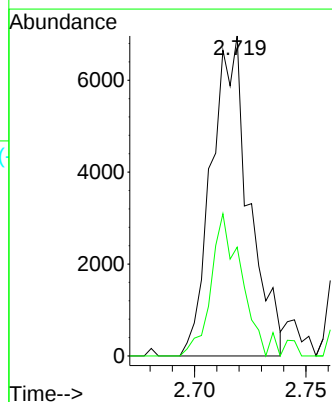
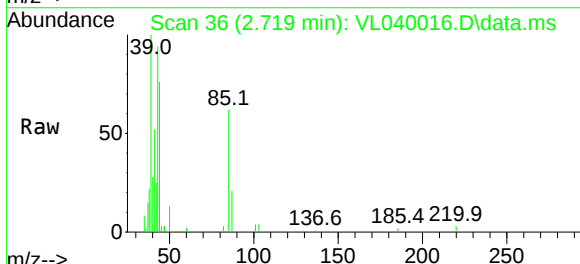
Instrument :
MSVOA_L
ClientSampleId :
SS-4DL

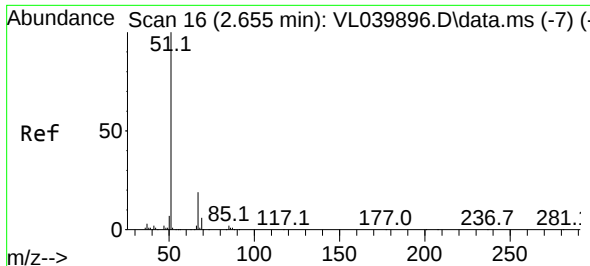
Tgt Ion: 49 Resp: 1164132
Ion Ratio Lower Upper
49 100
128 48.7 22.1 66.3
130 61.8 27.7 83.1



#2
Dichlorodifluoromethane
Concen: 0.049 ppbv
RT: 2.719 min Scan# 36
Delta R.T. 0.023 min
Lab File: VL040016.D
Acq: 13 Dec 2022 22:11

Tgt Ion: 85 Resp: 8176
Ion Ratio Lower Upper
85 100
87 34.0 25.0 37.4

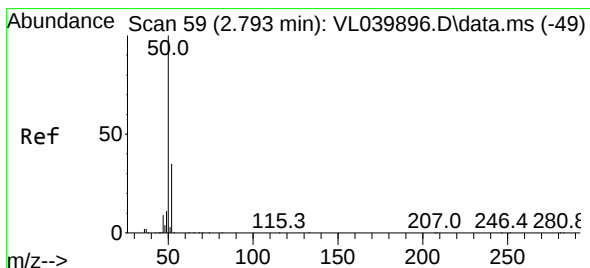
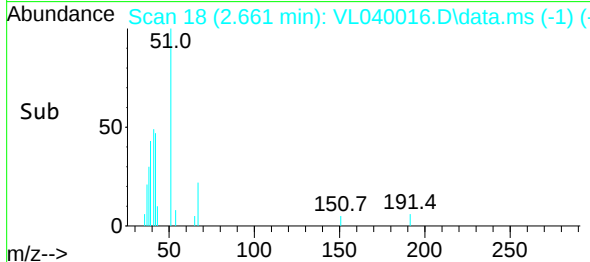
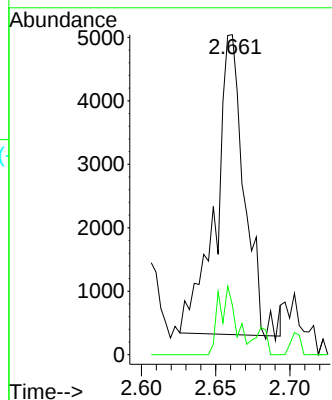
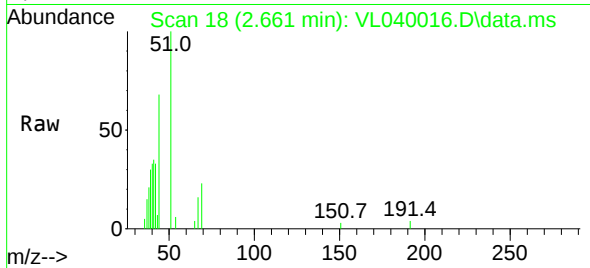




#3
Chlorodifluoromethane
Concen: 0.040 ppbv
RT: 2.661 min Scan# 11
Delta R.T. 0.019 min
Lab File: VL040016.D
Acq: 13 Dec 2022 22:11

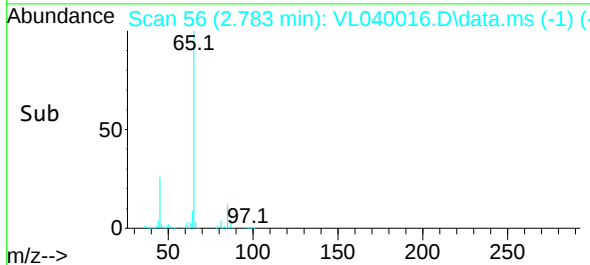
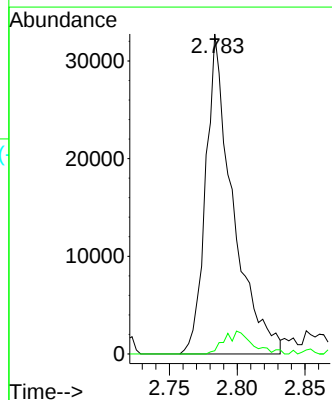
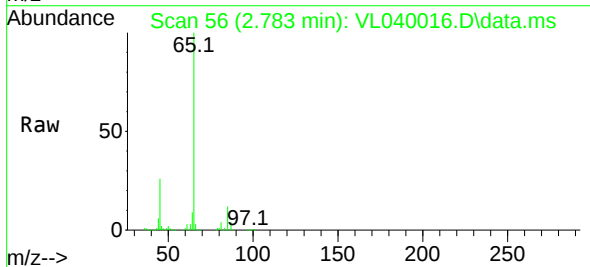
Instrument :
MSVOA_L
ClientSampleId :
SS-4DL

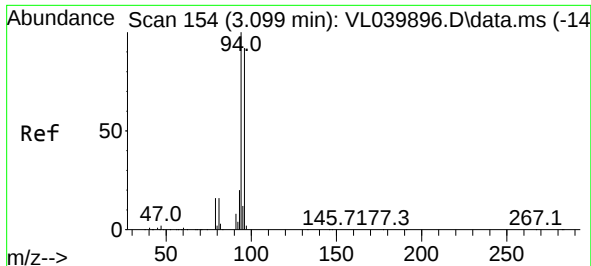
Tgt Ion: 51 Resp: 6375
Ion Ratio Lower Upper
51 100
67 19.9 14.2 21.4



#4
Chloromethane
Concen: 0.443 ppbv
RT: 2.783 min Scan# 56
Delta R.T. 0.003 min
Lab File: VL040016.D
Acq: 13 Dec 2022 22:11

Tgt Ion: 50 Resp: 45489
Ion Ratio Lower Upper
50 100
52 1.0 27.8 41.8#

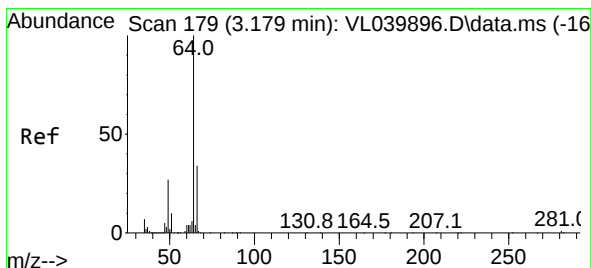
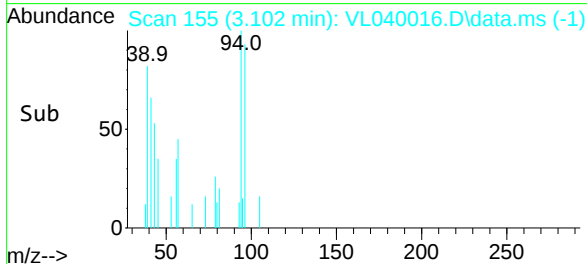
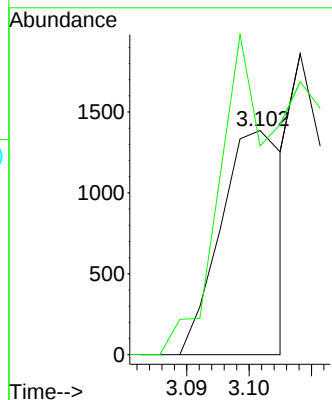
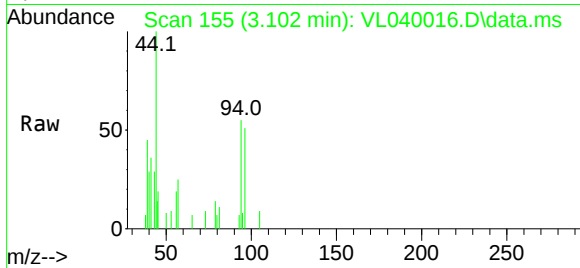




#6
Bromomethane
Concen: 0.036 ppbv
RT: 3.102 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL040016.D
Acq: 13 Dec 2022 22:11

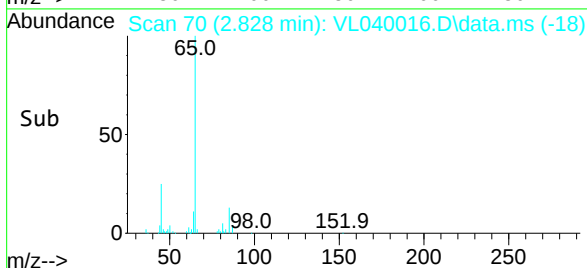
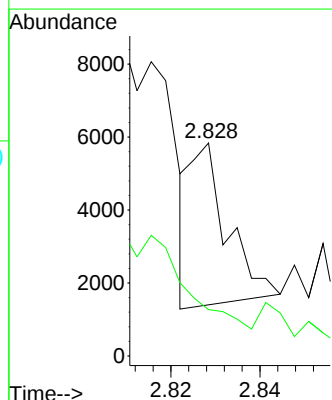
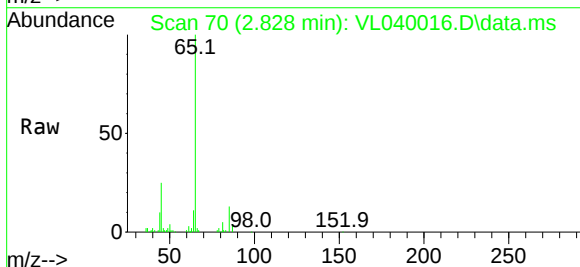
Instrument :
MSVOA_L
ClientSampleId :
SS-4DL

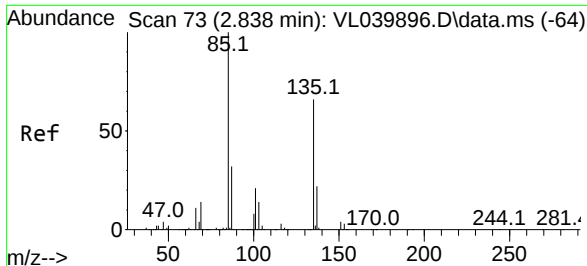
Tgt Ion: 94 Resp: 973
Ion Ratio Lower Upper
94 100
96 77.3 73.7 110.5



#7
Chloroethane
Concen: 0.081 ppbv
RT: 2.828 min Scan# 70
Delta R.T. -0.334 min
Lab File: VL040016.D
Acq: 13 Dec 2022 22:11

Tgt Ion: 64 Resp: 2570
Ion Ratio Lower Upper
64 100
66 21.8 27.3 40.9

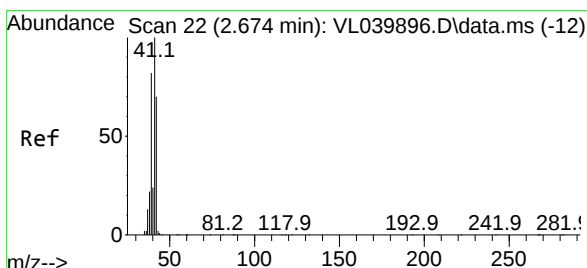
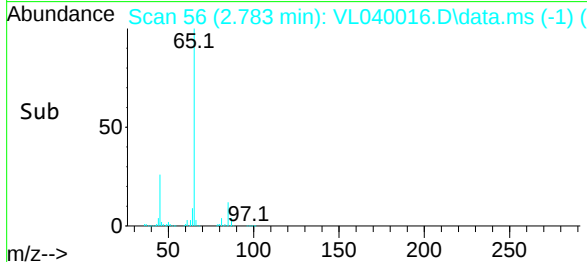
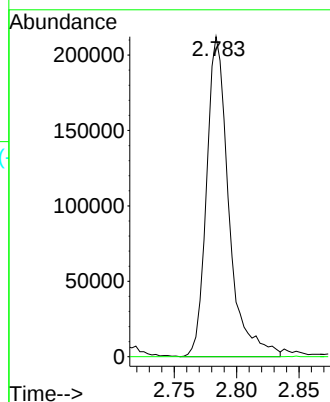
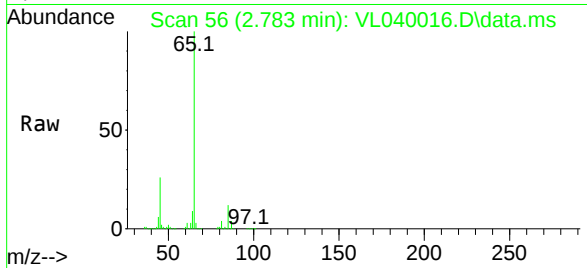




#8
 Dichlorotetrafluoroethane
 Concen: 1.385 ppbv
 RT: 2.783 min Scan# 50
 Delta R.T. -0.042 min
 Lab File: VL040016.D
 Acq: 13 Dec 2022 22:11

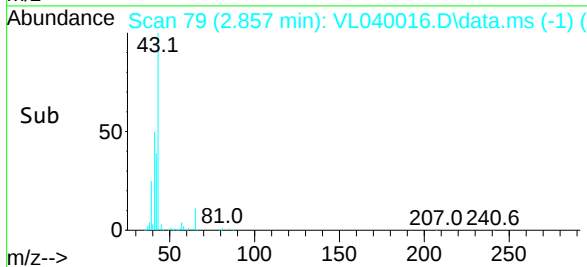
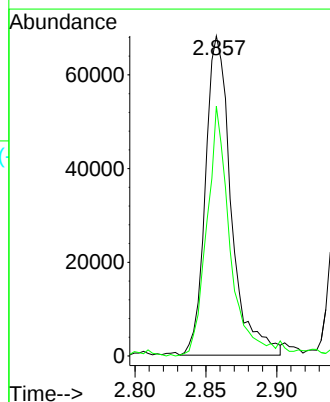
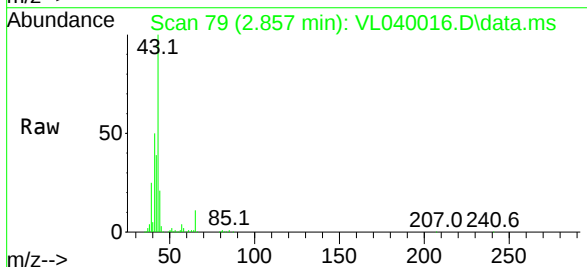
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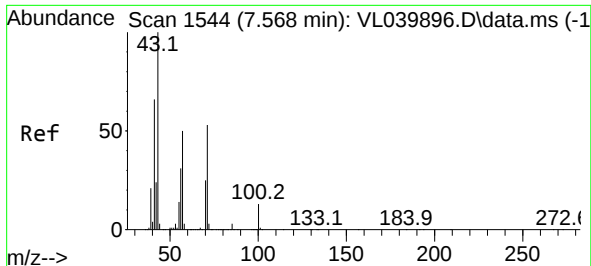
Tgt Ion: 85 Resp: 263725
 Ion Ratio Lower Upper
 85 100
 135 0.0 54.1 81.1#



#9
 Propene
 Concen: 1.137 ppbv
 RT: 2.857 min Scan# 79
 Delta R.T. 0.196 min
 Lab File: VL040016.D
 Acq: 13 Dec 2022 22:11

Tgt Ion: 41 Resp: 86069
 Ion Ratio Lower Upper
 41 100
 42 73.2 55.8 83.6

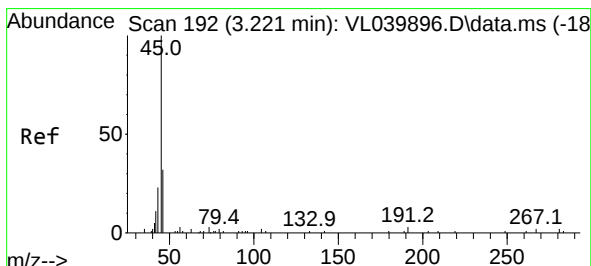
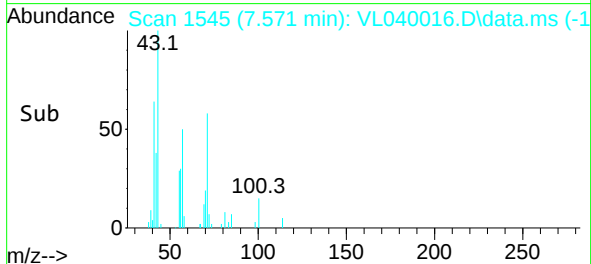
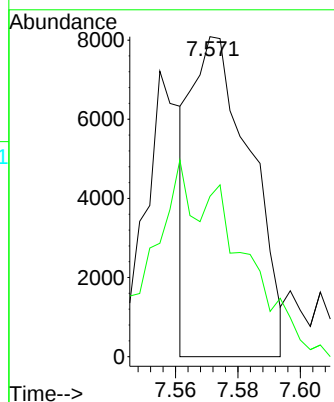
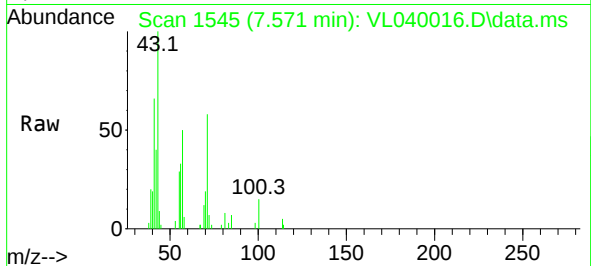




#10
Heptane
Concen: 0.059 ppbv
RT: 7.571 min Scan# 11
Delta R.T. 0.026 min
Lab File: VL040016.D
Acq: 13 Dec 2022 22:11

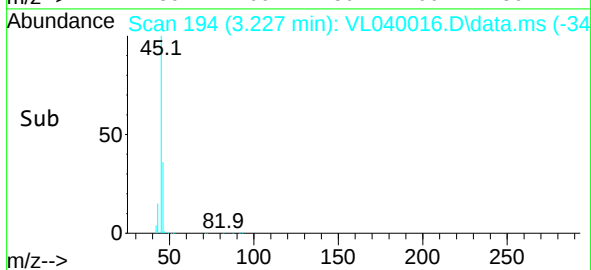
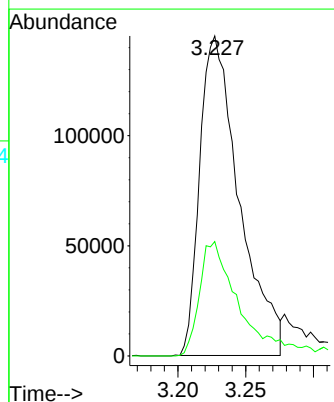
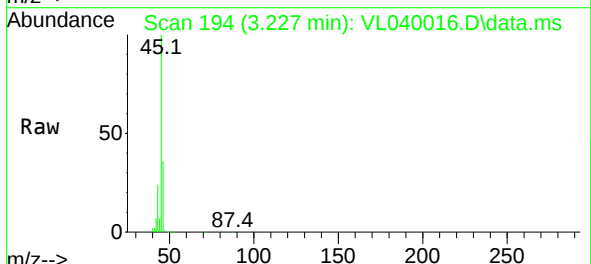
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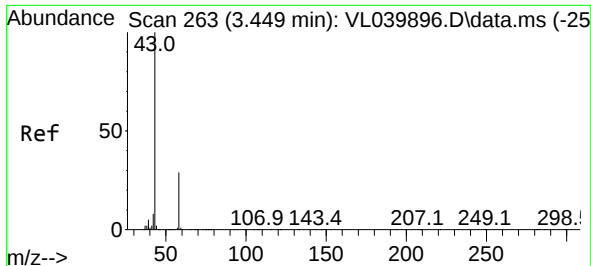
Tgt Ion: 43 Resp: 10753
Ion Ratio Lower Upper
43 100
57 0.0 40.7 61.1#



#13
Ethanol
Concen: 50.971 ppbv
RT: 3.227 min Scan# 194
Delta R.T. 0.013 min
Lab File: VL040016.D
Acq: 13 Dec 2022 22:11

Tgt Ion: 45 Resp: 294468
Ion Ratio Lower Upper
45 100
46 39.2 14.6 58.2

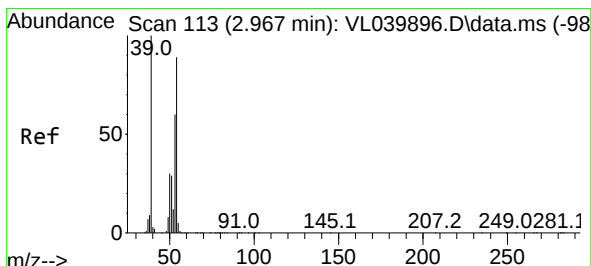
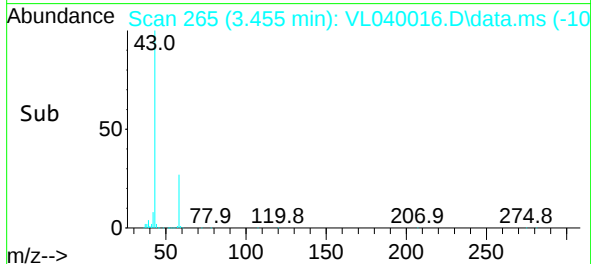
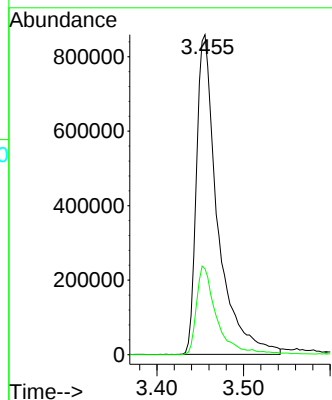
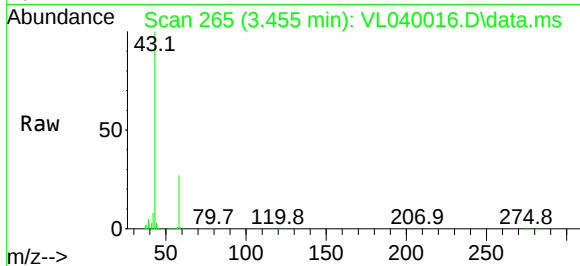




#15
Acetone
Concen: 9.437 ppbv
RT: 3.455 min Scan# 21
Delta R.T. 0.023 min
Lab File: VL040016.D
Acq: 13 Dec 2022 22:11

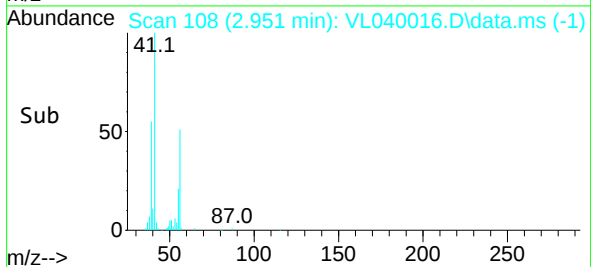
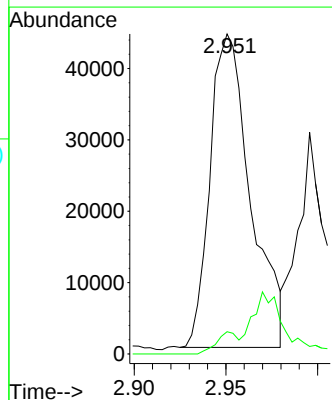
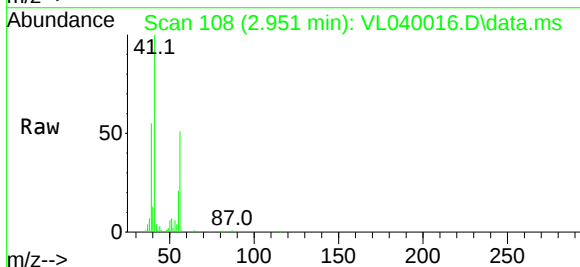
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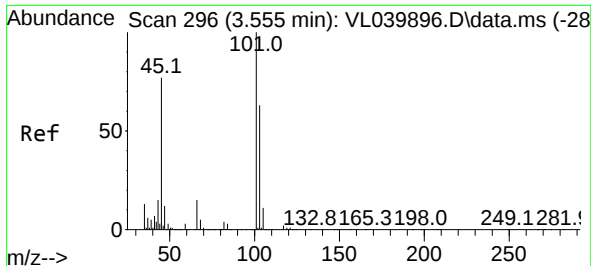
Tgt Ion: 43 Resp: 1457114
Ion Ratio Lower Upper
43 100
58 27.5 22.9 34.3



#16
1,3-Butadiene
Concen: 0.877 ppbv
RT: 2.951 min Scan# 108
Delta R.T. 0.000 min
Lab File: VL040016.D
Acq: 13 Dec 2022 22:11

Tgt Ion: 39 Resp: 67458
Ion Ratio Lower Upper
39 100
54 20.6 66.6 99.8#

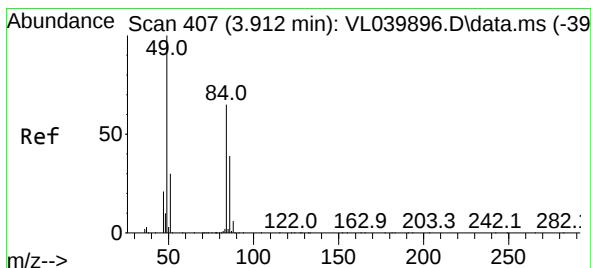
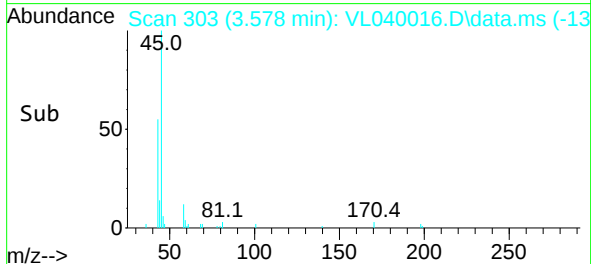
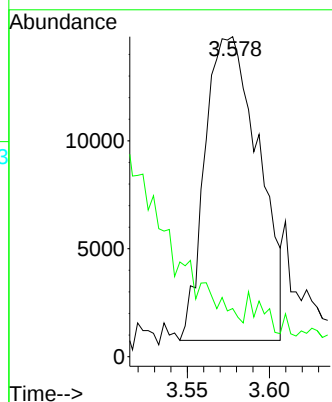
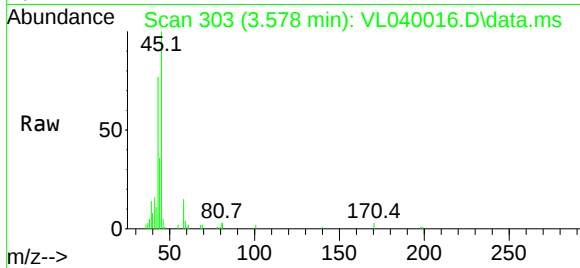




#19
Isopropyl Alcohol
Concen: 0.383 ppbv
RT: 3.578 min Scan# 303
Delta R.T. 0.035 min
Lab File: VL040016.D
Acq: 13 Dec 2022 22:11

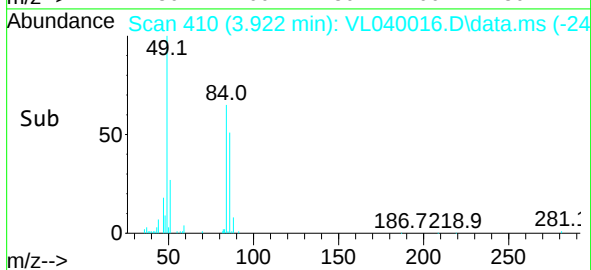
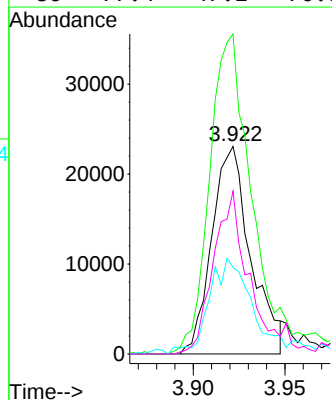
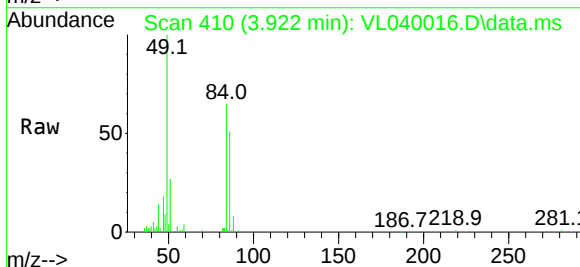
Instrument :
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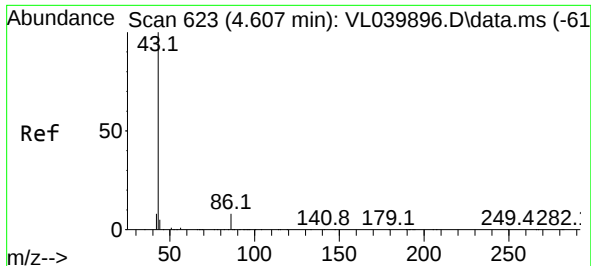
Tgt Ion: 45 Resp: 31994
Ion Ratio Lower Upper
45 100
58 1238.9 38.7 58.1#



#20
Methylene Chloride
Concen: 0.455 ppbv
RT: 3.922 min Scan# 410
Delta R.T. 0.026 min
Lab File: VL040016.D
Acq: 13 Dec 2022 22:11

Tgt Ion: 84 Resp: 34028
Ion Ratio Lower Upper
84 100
49 151.2 122.2 183.4
51 38.8 36.3 54.5
86 77.4 47.2 70.8#

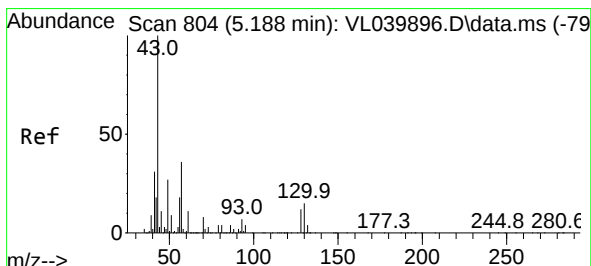
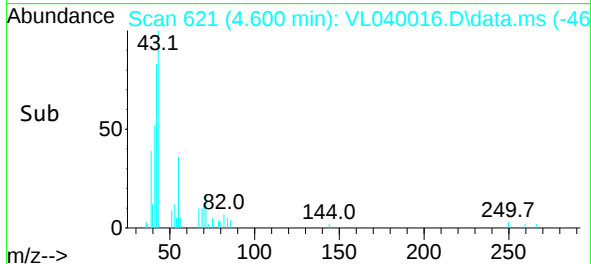
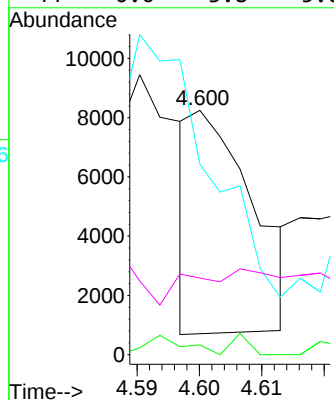
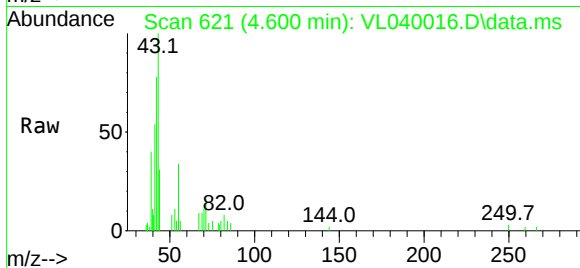




#23
 Vinyl Acetate
 Concen: 0.082 ppbv
 RT: 4.600 min Scan# 61
 Delta R.T. 0.006 min
 Lab File: VL040016.D
 Acq: 13 Dec 2022 22:11

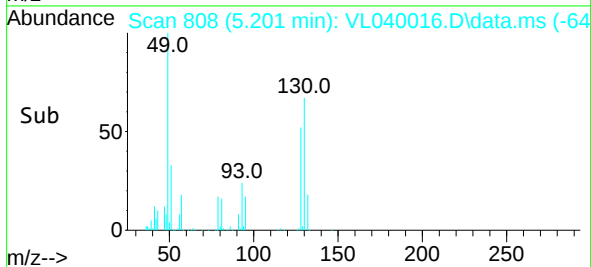
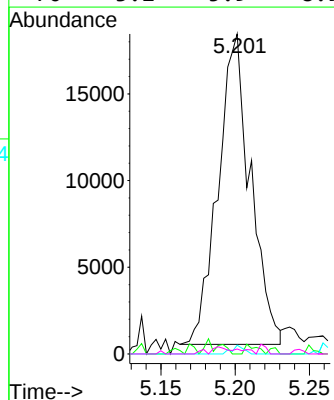
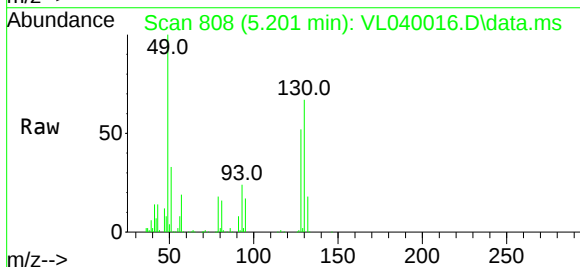
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-4DL

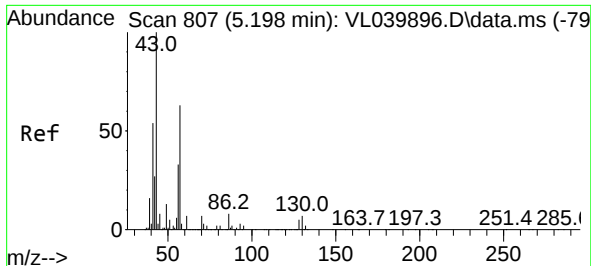
Tgt Ion:	43	Resp:	5172
Ion	Ratio	Lower	Upper
43	100		
86	8.3	5.0	7.4#
42	114.0	7.6	11.4#
44	0.0	3.8	5.6#



#25
 Ethyl Acetate
 Concen: 0.096 ppbv
 RT: 5.201 min Scan# 808
 Delta R.T. 0.032 min
 Lab File: VL040016.D
 Acq: 13 Dec 2022 22:11

Tgt Ion:	43	Resp:	27209
Ion	Ratio	Lower	Upper
43	100		
45	4.7	8.4	12.6#
61	1.0	8.5	12.7#
70	3.2	5.9	8.9#

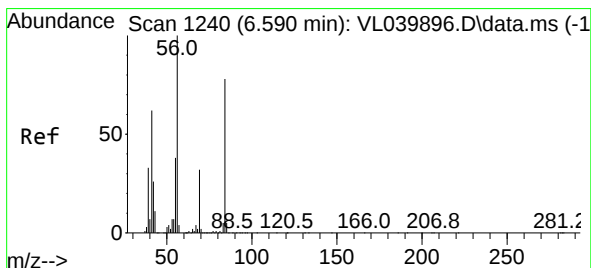
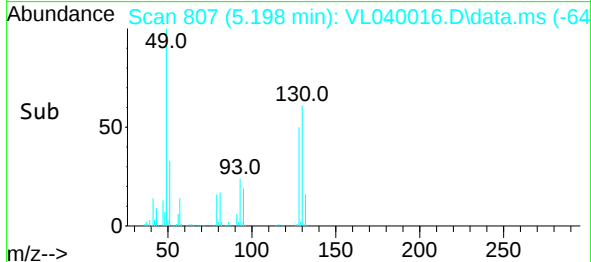
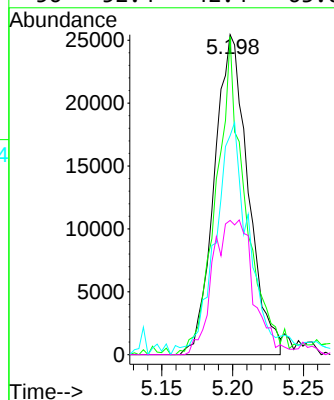
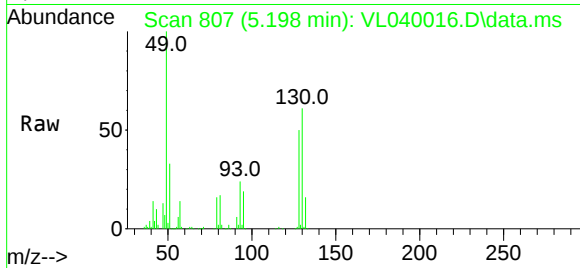




#26
Hexane
Concen: 0.341 ppbv
RT: 5.198 min Scan# 807
Delta R.T. 0.023 min
Lab File: VL040016.D
Acq: 13 Dec 2022 22:11

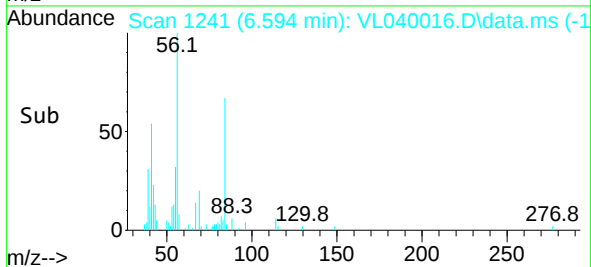
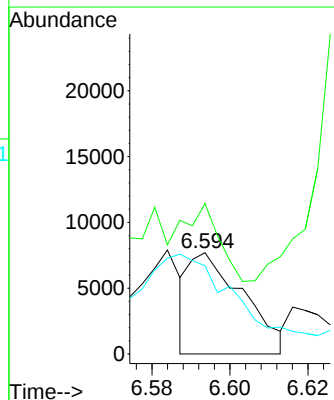
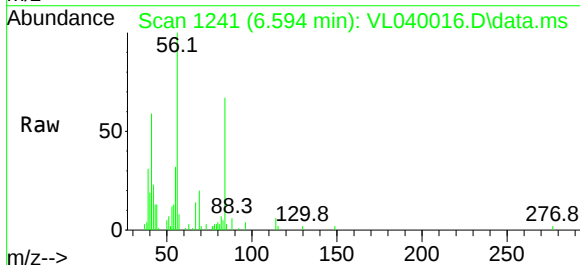
Instrument :
MSVOA_L
ClientSampleId :
SS-4DL

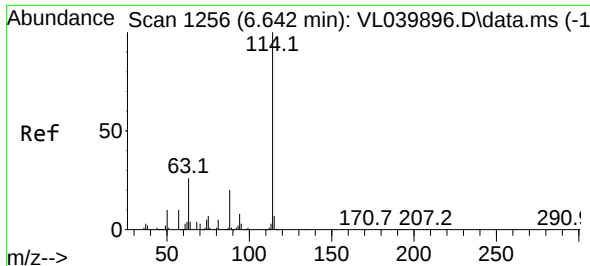
Tgt Ion: 57 Resp: 42275
Ion Ratio Lower Upper
57 100
41 88.6 72.3 108.5
43 78.7 188.7 283.1#
56 52.4 42.4 63.6



#30
Cyclohexane
Concen: 0.061 ppbv
RT: 6.594 min Scan# 1241
Delta R.T. 0.029 min
Lab File: VL040016.D
Acq: 13 Dec 2022 22:11

Tgt Ion: 84 Resp: 7458
Ion Ratio Lower Upper
84 100
56 273.5 112.5 168.7#
41 0.0 67.8 101.8#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.639 min Scan# 11

Delta R.T. 0.019 min

Lab File: VL040016.D

Acq: 13 Dec 2022 22:11

Instrument :

MSVOA_L

ClientSampleId :

SS-4DL

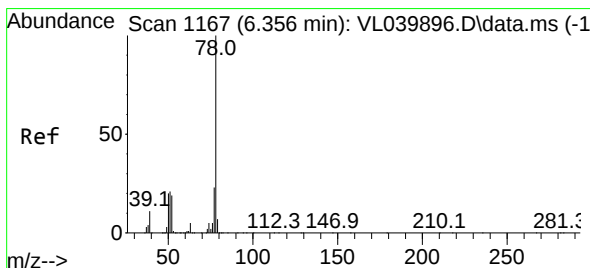
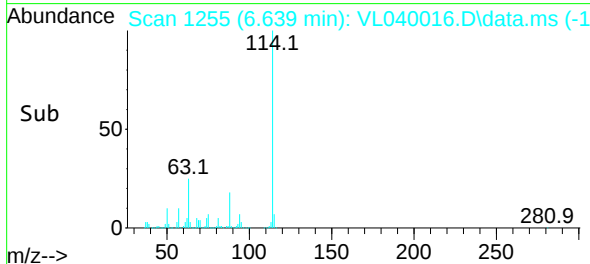
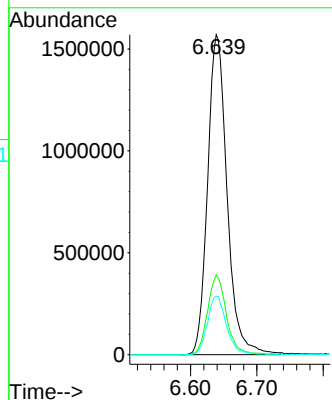
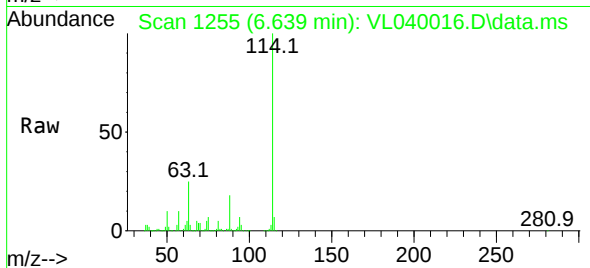
Tgt Ion:114 Resp: 3202617

Ion Ratio Lower Upper

114 100

63 24.4 21.4 32.0

88 18.0 15.3 22.9



#36

Benzene

Concen: 0.186 ppbv

RT: 6.359 min Scan# 1168

Delta R.T. 0.026 min

Lab File: VL040016.D

Acq: 13 Dec 2022 22:11

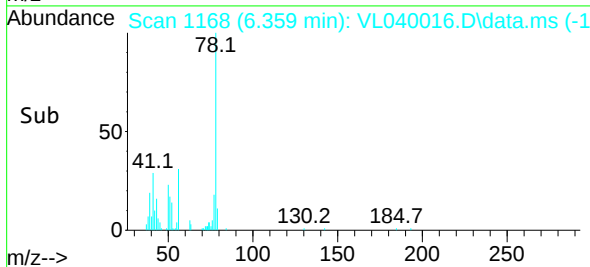
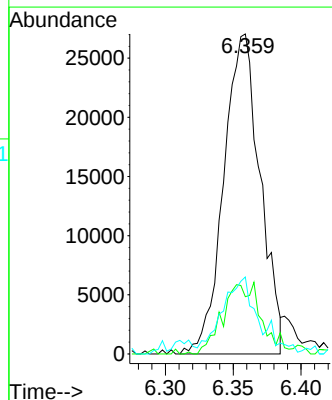
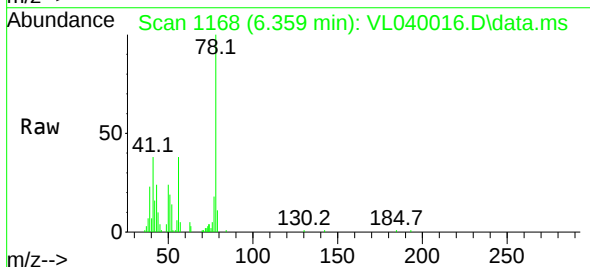
Tgt Ion: 78 Resp: 50500

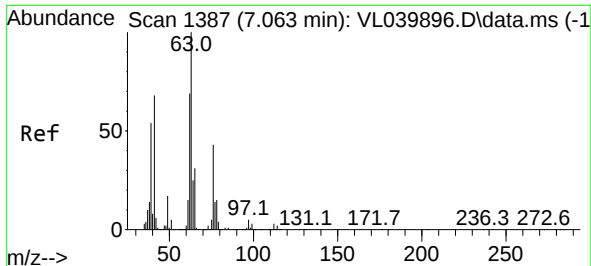
Ion Ratio Lower Upper

78 100

77 18.1 18.2 27.2#

50 20.9 15.8 23.8





#39

1,2-Dichloropropane

Concen: 7.301 ppbv

RT: 6.639 min Scan# 11

Delta R.T. -0.395 min

Lab File: VL040016.D

Acq: 13 Dec 2022 22:11

Instrument :

MSVOA_L

ClientSampleId :

SS-4DL

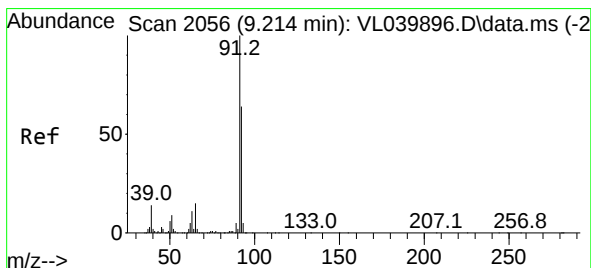
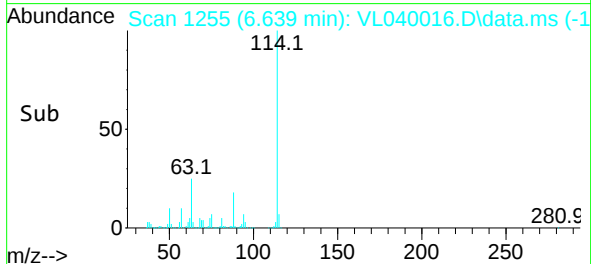
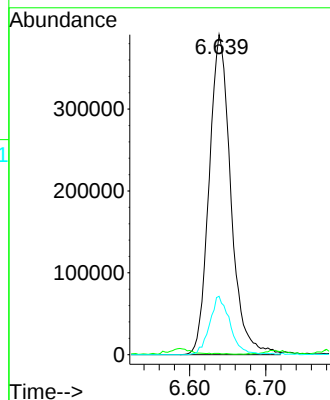
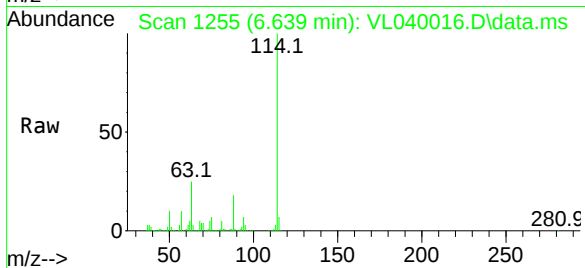
Tgt Ion: 63 Resp: 774354

Ion Ratio Lower Upper

63 100

41 0.0 54.7 82.1#

62 18.3 55.0 82.6#



#53

Toluene

Concen: 0.120 ppbv

RT: 9.208 min Scan# 2054

Delta R.T. 0.023 min

Lab File: VL040016.D

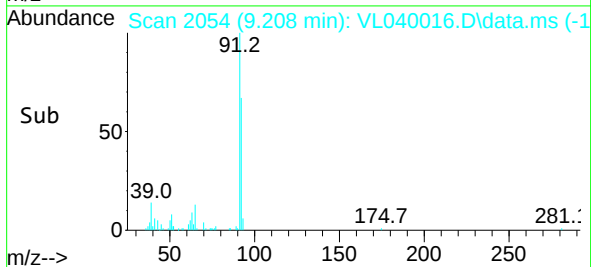
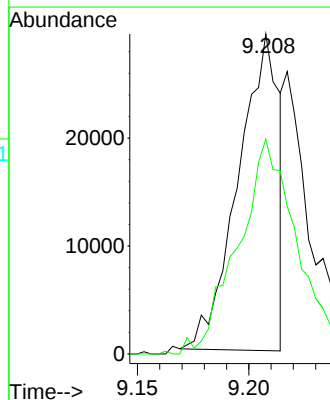
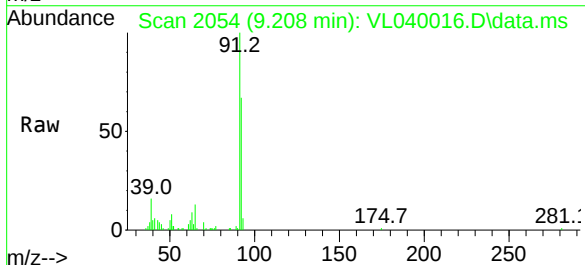
Acq: 13 Dec 2022 22:11

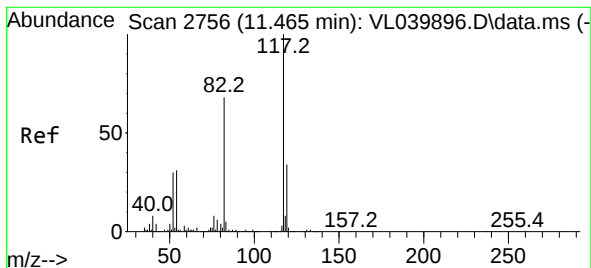
Tgt Ion: 91 Resp: 37231

Ion Ratio Lower Upper

91 100

92 100.2 49.8 74.6#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.458 min Scan# 21

Delta R.T. 0.026 min

Lab File: VL040016.D

Acq: 13 Dec 2022 22:11

Instrument :

MSVOA_L

ClientSampleId :

SS-4DL

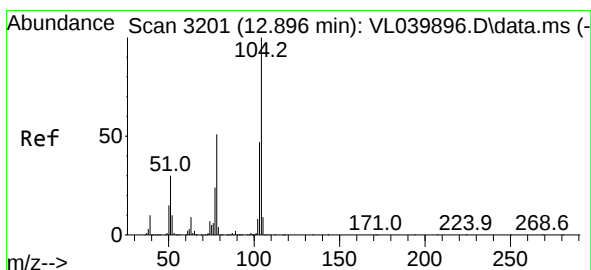
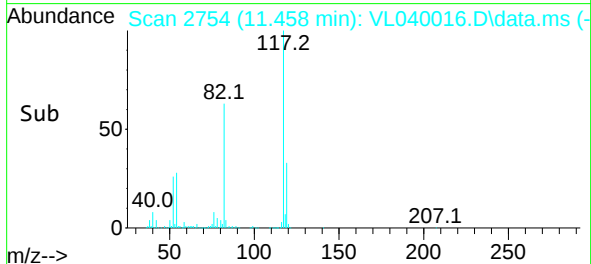
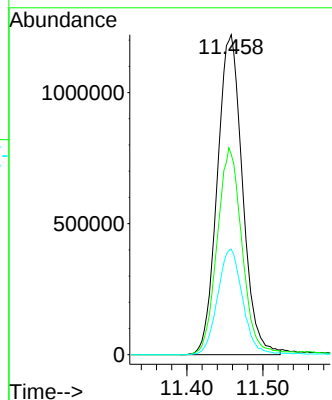
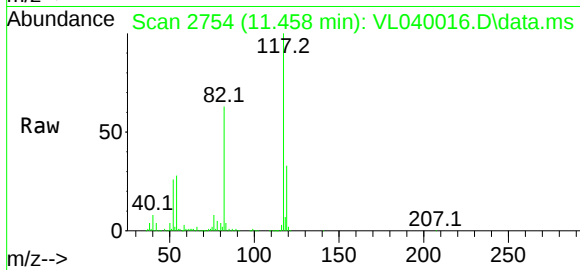
Tgt Ion:117 Resp: 2807342

Ion Ratio Lower Upper

117 100

82 64.0 52.3 78.5

119 33.0 25.7 38.5



#61

Styrene

Concen: 0.020 ppbv

RT: 12.889 min Scan# 3199

Delta R.T. 0.026 min

Lab File: VL040016.D

Acq: 13 Dec 2022 22:11

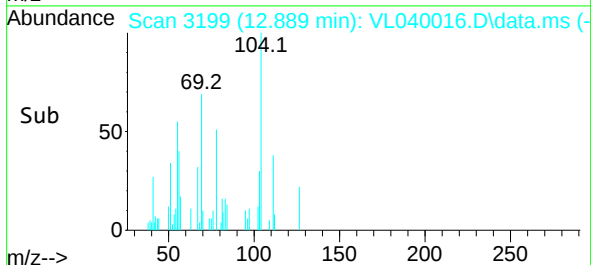
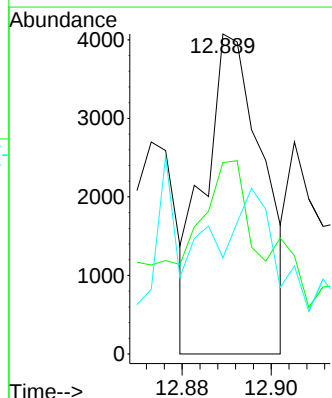
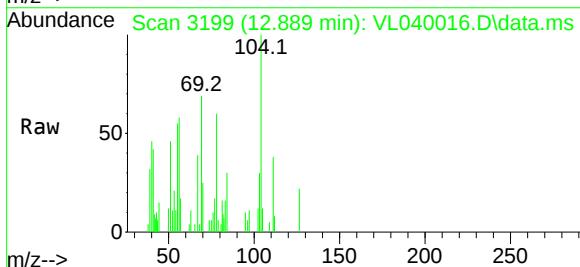
Tgt Ion:104 Resp: 3696

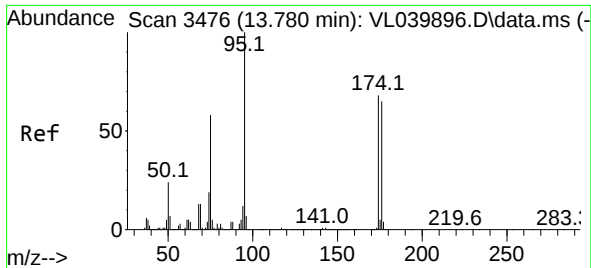
Ion Ratio Lower Upper

104 100

78 137.2 41.8 62.8#

103 0.0 37.2 55.8#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.927 ppbv
 RT: 13.770 min Scan# 34
 Delta R.T. 0.029 min
 Lab File: VL040016.D
 Acq: 13 Dec 2022 22:11

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-4DL

Tgt Ion: 95 Resp: 2128553
 Ion Ratio Lower Upper
 95 100
 174 64.0 53.7 80.5
 175 4.5 4.0 6.0

