

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121922\
 Data File : VL040039.D
 Acq On : 19 Dec 2022 22:08
 Operator : SY/MD
 Sample : N5971-06DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-3DL

Quant Time: Dec 20 05:16:46 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Dec 20 04:50:21 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.169	49	1039889	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.629	114	2970313	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.442	117	2605261	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.754	95	1927775	9.687	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.900%

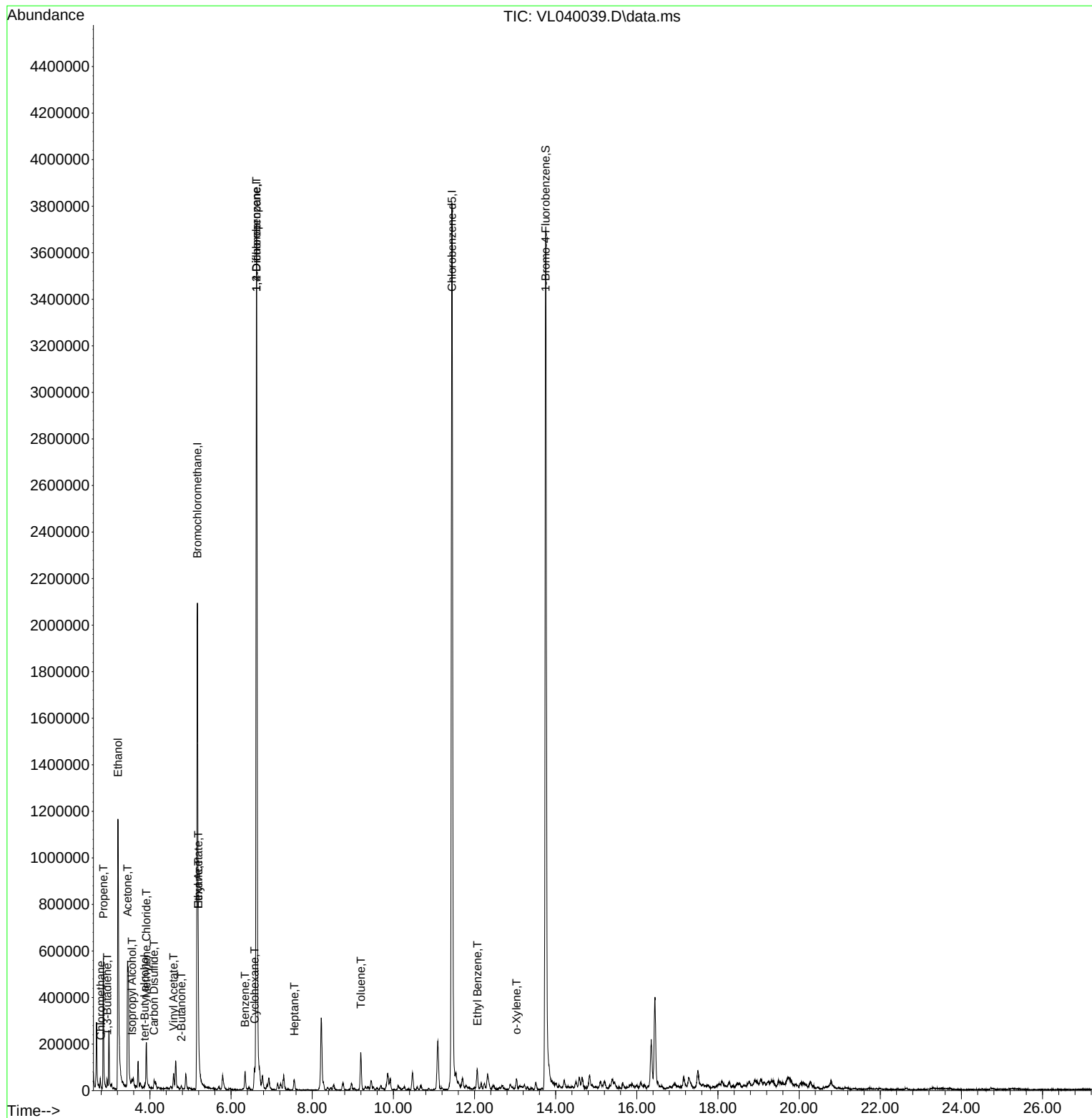
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	2.790	50	5057	0.053	ppbv #	80
9) Propene	2.854	41	146017	2.243	ppbv	97
10) Heptane	7.562	43	6769	0.043	ppbv #	1
13) Ethanol	3.214	45	1264726	206.378	ppbv	94
15) Acetone	3.449	43	601559	3.740	ppbv	94
16) 1,3-Butadiene	2.948	39	4967	0.071	ppbv	99
17) tert-Butyl alcohol	3.874	59	5610	0.035	ppbv #	72
19) Isopropyl Alcohol	3.562	45	19632	0.248	ppbv #	1
20) Methylene Chloride	3.912	84	60349	0.883	ppbv	91
23) Vinyl Acetate	4.581	43	27983	0.549	ppbv #	1
25) Ethyl Acetate	5.192	43	43752	0.157	ppbv #	85
26) Hexane	5.192	57	57041	0.487	ppbv #	42
27) Carbon Disulfide	4.102	76	43679	0.296	ppbv #	71
30) Cyclohexane	6.578	84	20028	0.193	ppbv #	54
34) 2-Butanone	4.777	43	16126	0.100	ppbv #	87
36) Benzene	6.346	78	57604	0.217	ppbv	98
39) 1,2-Dichloropropane	6.626	63	711952	7.160	ppbv #	24
53) Toluene	9.195	91	66241	0.226	ppbv #	20
58) Ethyl Benzene	12.069	91	69014	0.186	ppbv #	85
60) o-Xylene	13.034	91	12583	0.041	ppbv #	1

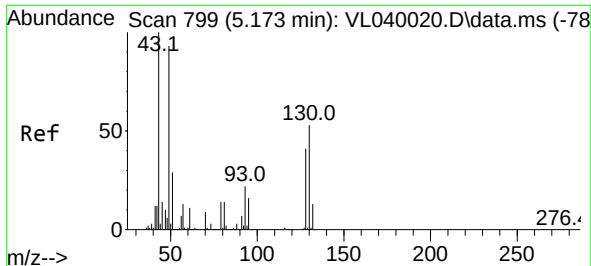
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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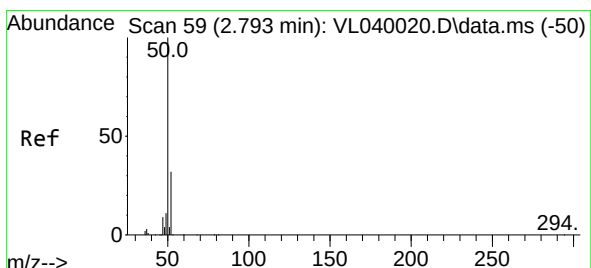
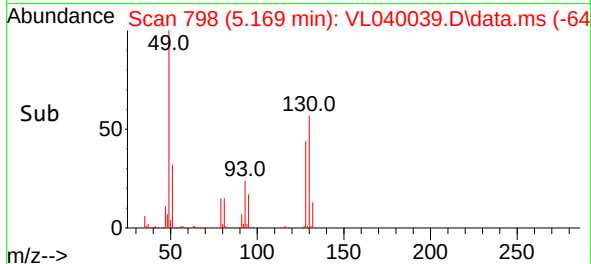
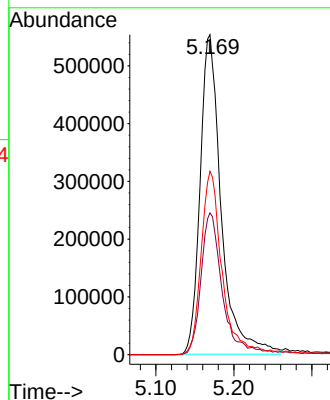
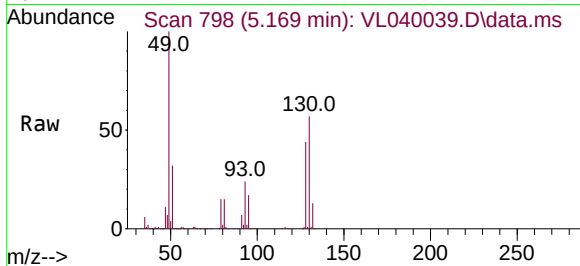




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.169 min Scan# 799
Delta R.T. -0.004 min
Lab File: VL040039.D
Acq: 19 Dec 2022 22:08

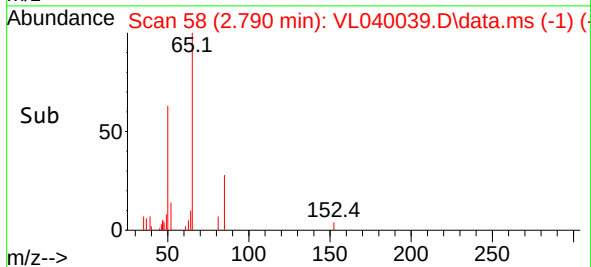
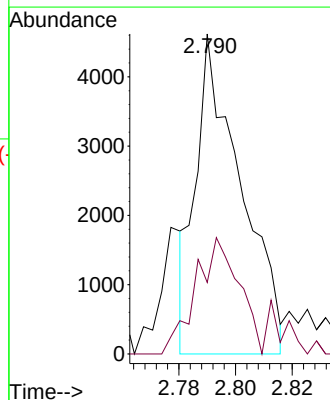
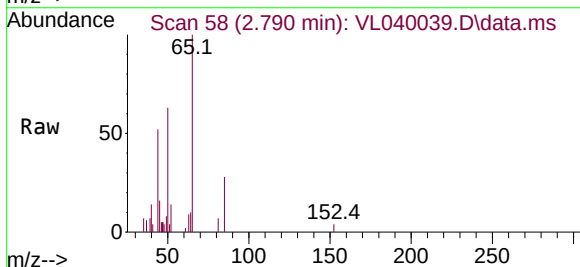
Instrument :
MSVOA_L
ClientSampleId :
SS-3DL

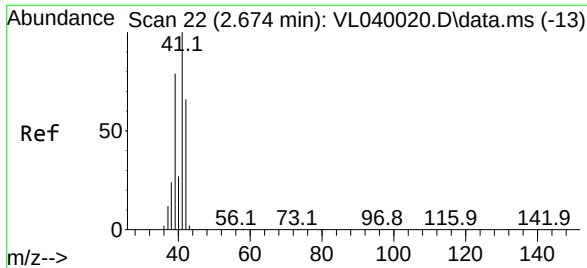
Tgt Ion: 49 Resp: 1039889
Ion Ratio Lower Upper
49 100
128 46.3 22.4 67.3
130 58.6 28.9 86.8



#4
Chloromethane
Concen: 0.053 ppbv
RT: 2.790 min Scan# 58
Delta R.T. -0.003 min
Lab File: VL040039.D
Acq: 19 Dec 2022 22:08

Tgt Ion: 50 Resp: 5057
Ion Ratio Lower Upper
50 100
52 20.6 25.5 38.3#





#9

Propene

Concen: 2.243 ppbv

RT: 2.854 min Scan# 71

Delta R.T. 0.180 min

Lab File: VL040039.D

Acq: 19 Dec 2022 22:08

Instrument :

MSVOA_1

ClientSampleId :

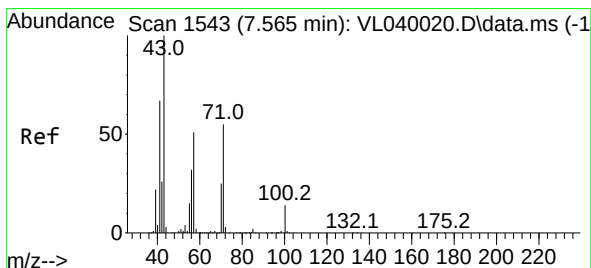
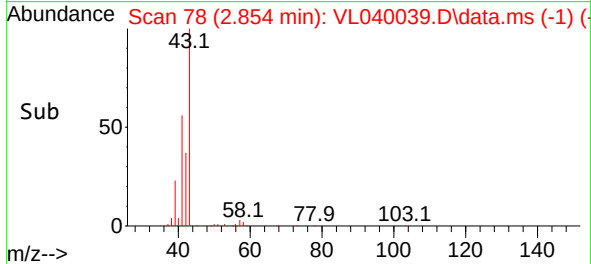
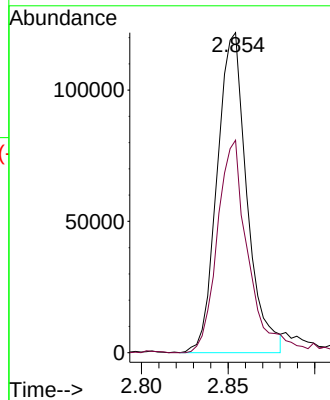
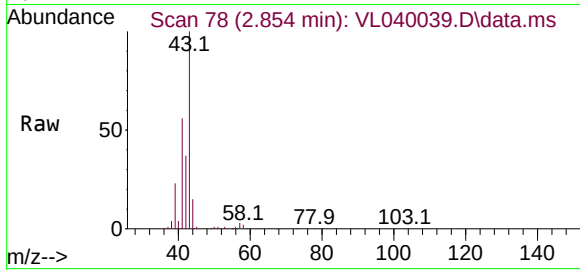
SS-3DL

Tgt Ion: 41 Resp: 146017

Ion Ratio Lower Upper

41 100

42 70.7 54.8 82.2



#10

Heptane

Concen: 0.043 ppbv

RT: 7.562 min Scan# 1542

Delta R.T. -0.003 min

Lab File: VL040039.D

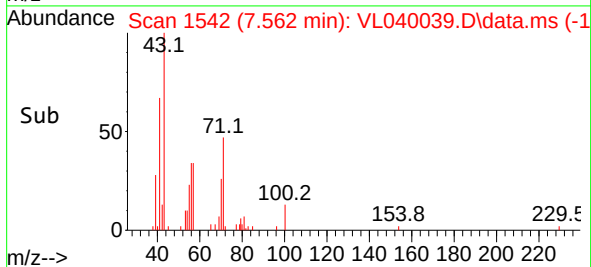
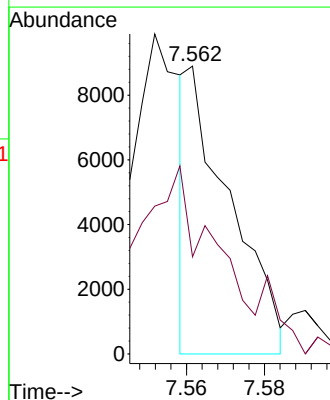
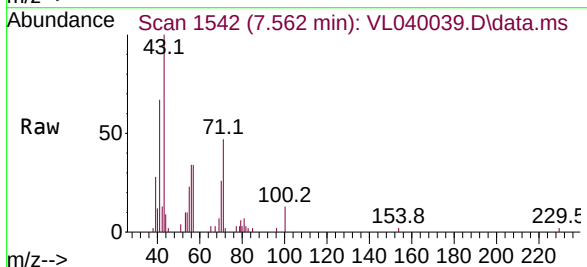
Acq: 19 Dec 2022 22:08

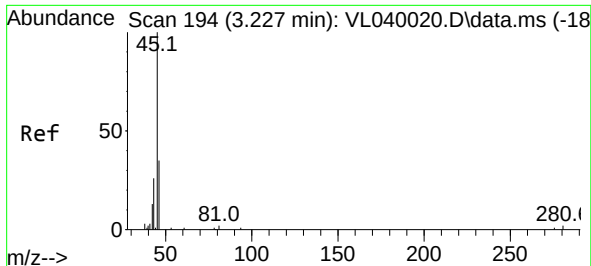
Tgt Ion: 43 Resp: 6769

Ion Ratio Lower Upper

43 100

57 157.8 41.2 61.8#

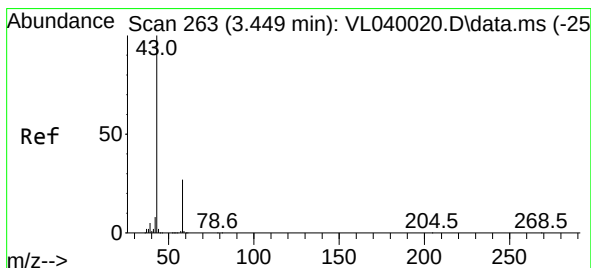
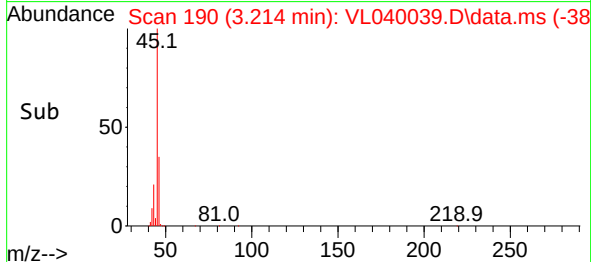
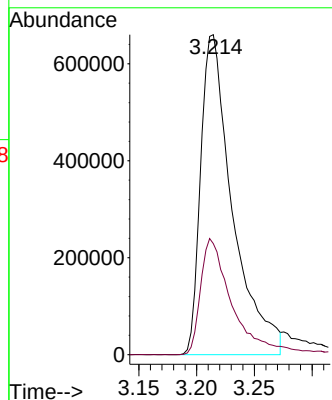
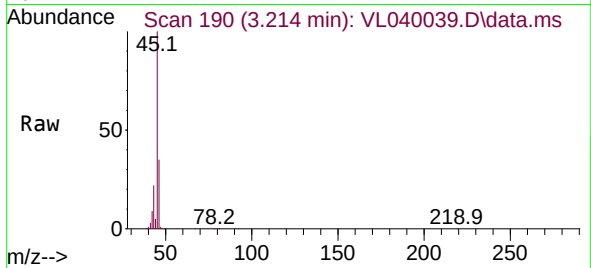




#13
Ethanol
Concen: 206.378 ppbv
RT: 3.214 min Scan# 194
Delta R.T. -0.013 min
Lab File: VL040039.D
Acq: 19 Dec 2022 22:08

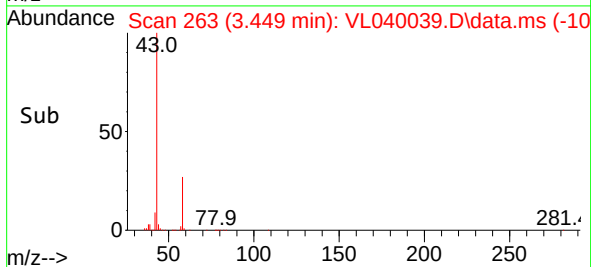
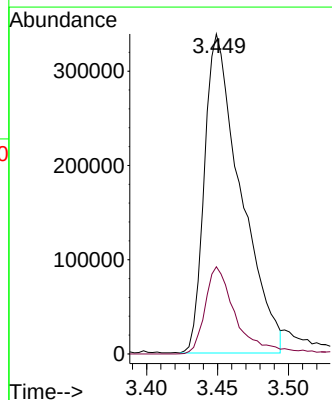
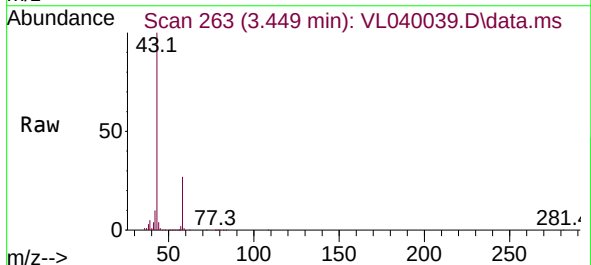
Instrument :
MSVOA_L
ClientSampleId :
SS-3DL

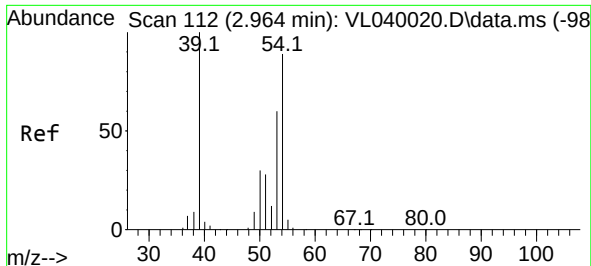
Tgt Ion: 45 Resp: 1264726
Ion Ratio Lower Upper
45 100
46 37.8 13.7 54.7



#15
Acetone
Concen: 3.740 ppbv
RT: 3.449 min Scan# 263
Delta R.T. 0.000 min
Lab File: VL040039.D
Acq: 19 Dec 2022 22:08

Tgt Ion: 43 Resp: 601559
Ion Ratio Lower Upper
43 100
58 24.4 21.8 32.8

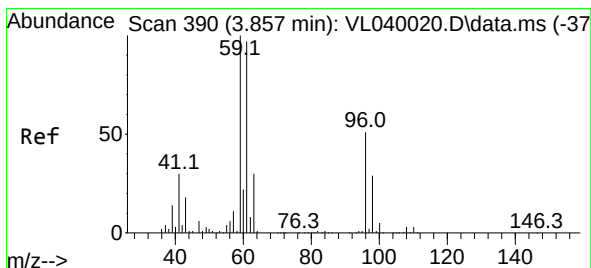
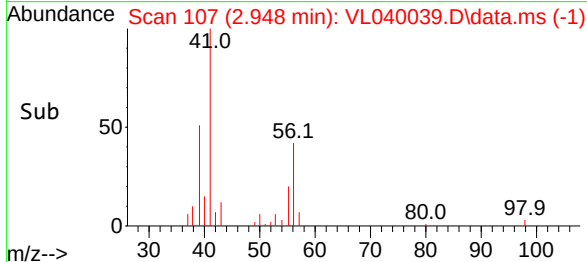
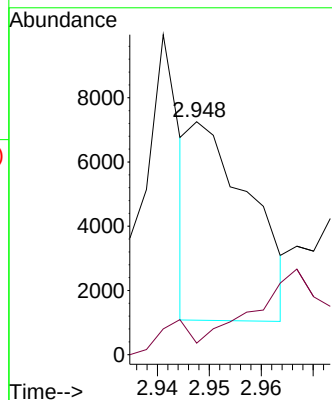
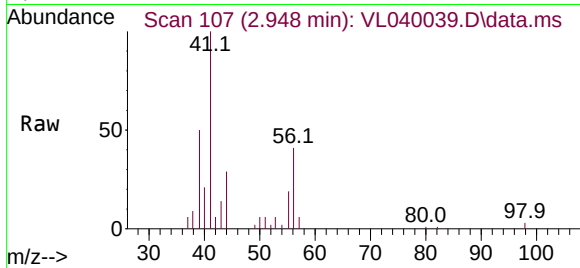




#16
1,3-Butadiene
Concen: 0.071 ppbv
RT: 2.948 min Scan# 112
Delta R.T. -0.016 min
Lab File: VL040039.D
Acq: 19 Dec 2022 22:08

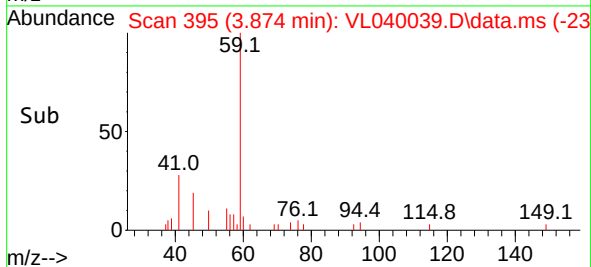
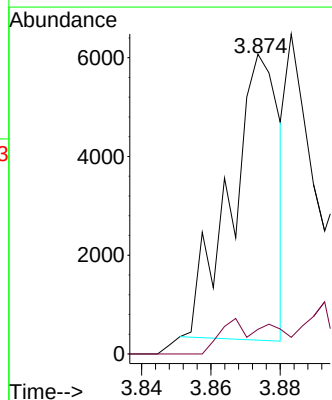
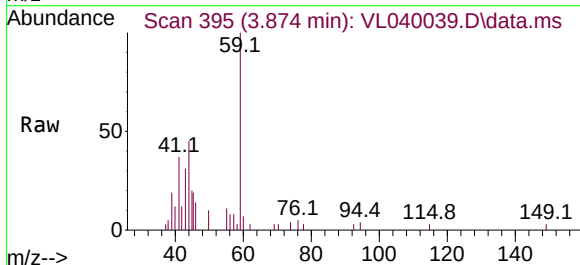
Instrument :
MSVOA_L
ClientSampleId :
SS-3DL

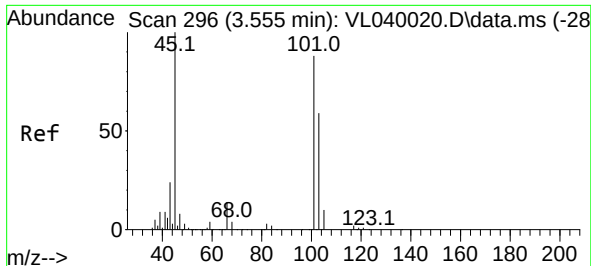
Tgt Ion: 39 Resp: 4967
Ion Ratio Lower Upper
39 100
54 84.7 68.3 102.5



#17
tert-Butyl alcohol
Concen: 0.035 ppbv
RT: 3.874 min Scan# 395
Delta R.T. 0.016 min
Lab File: VL040039.D
Acq: 19 Dec 2022 22:08

Tgt Ion: 59 Resp: 5610
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#





#19

Isopropyl Alcohol

Concen: 0.248 ppbv

RT: 3.562 min Scan# 296

Delta R.T. 0.006 min

Lab File: VL040039.D

Acq: 19 Dec 2022 22:08

Instrument :

MSVOA_1

ClientSampleId :

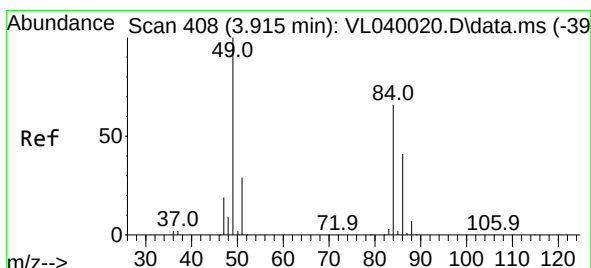
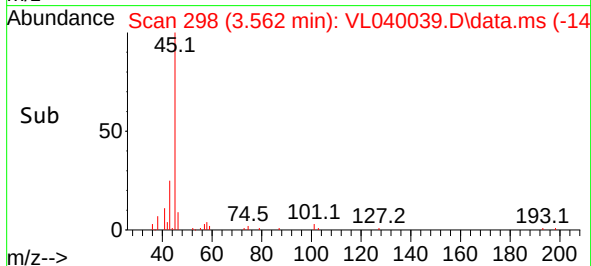
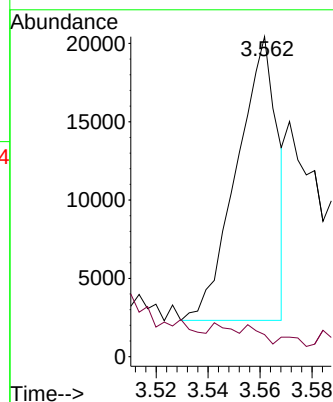
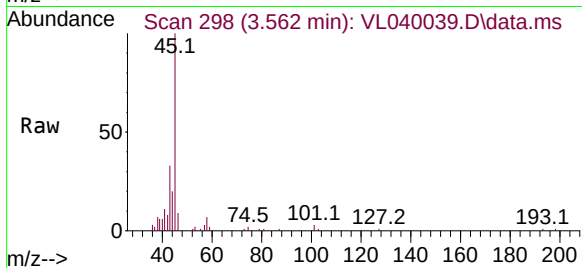
SS-3DL

Tgt Ion: 45 Resp: 19632

Ion Ratio Lower Upper

45 100

58 747.1 1.7 2.5#



#20

Methylene Chloride

Concen: 0.883 ppbv

RT: 3.912 min Scan# 407

Delta R.T. -0.003 min

Lab File: VL040039.D

Acq: 19 Dec 2022 22:08

Tgt Ion: 84 Resp: 60349

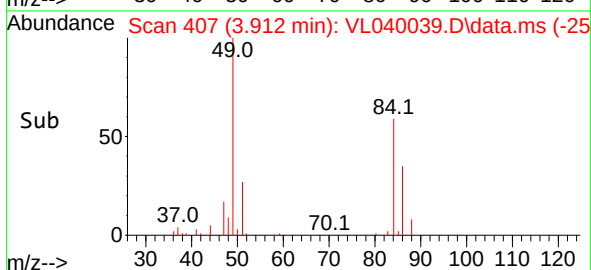
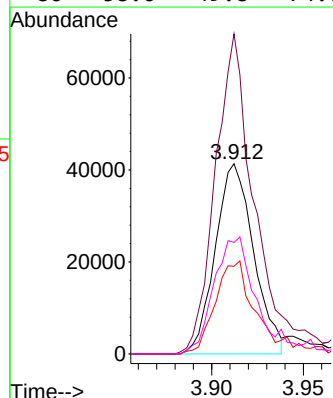
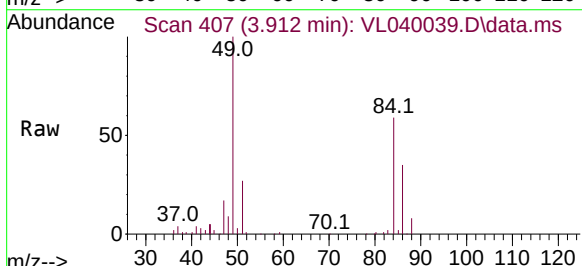
Ion Ratio Lower Upper

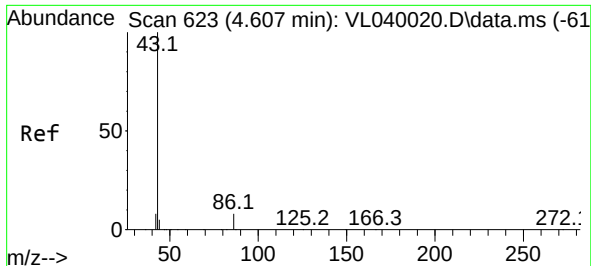
84 100

49 167.0 120.5 180.7

51 45.8 35.2 52.8

86 58.6 49.8 74.6



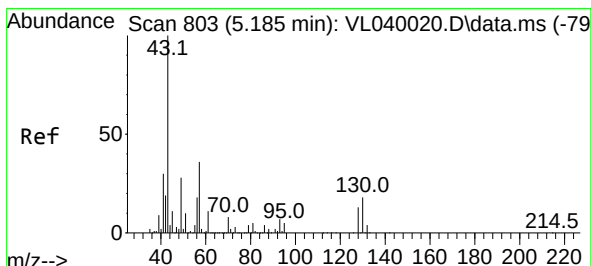
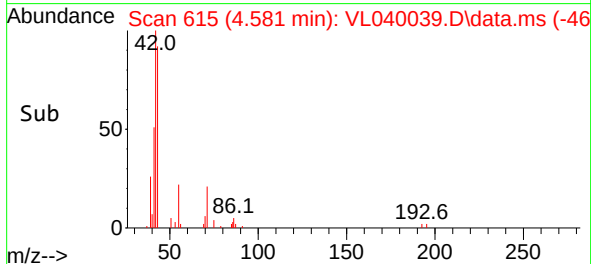
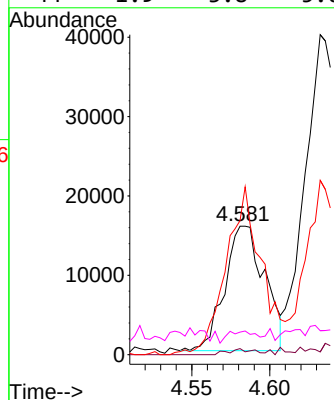
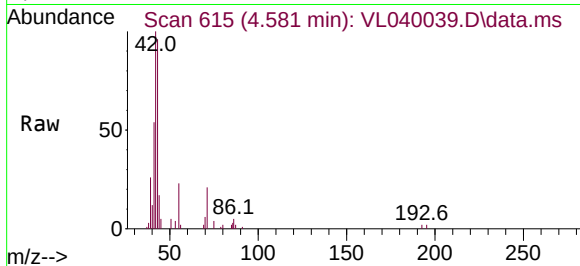


#23
 Vinyl Acetate
 Concen: 0.549 ppbv
 RT: 4.581 min Scan# 61
 Delta R.T. -0.026 min
 Lab File: VL040039.D
 Acq: 19 Dec 2022 22:08

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-3DL

Tgt Ion: 43 Resp: 27983

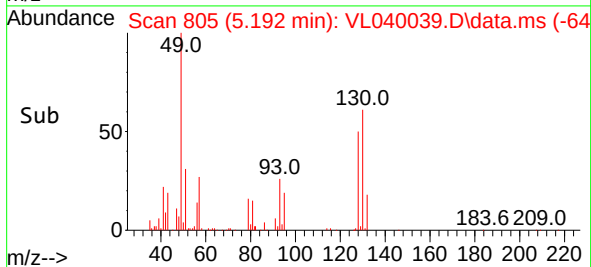
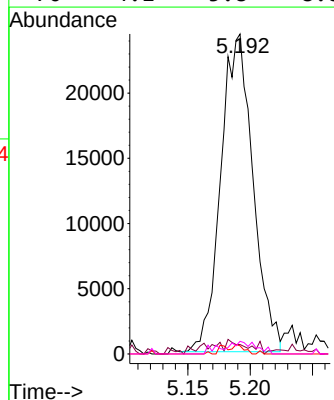
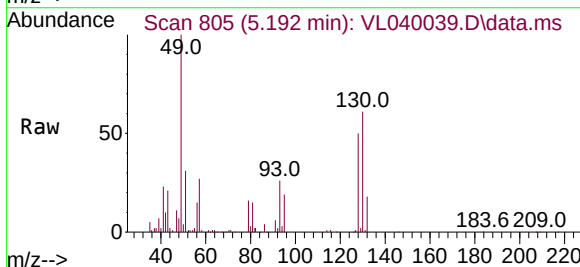
Ion	Ratio	Lower	Upper
43	100		
86	4.9	5.3	7.9#
42	101.9	7.4	11.0#
44	1.9	3.8	5.6#

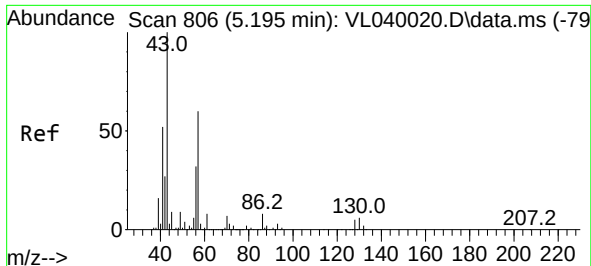


#25
 Ethyl Acetate
 Concen: 0.157 ppbv
 RT: 5.192 min Scan# 805
 Delta R.T. 0.006 min
 Lab File: VL040039.D
 Acq: 19 Dec 2022 22:08

Tgt Ion: 43 Resp: 43752

Ion	Ratio	Lower	Upper
43	100		
45	6.1	8.6	12.8#
61	1.9	8.5	12.7#
70	4.1	5.8	8.8#

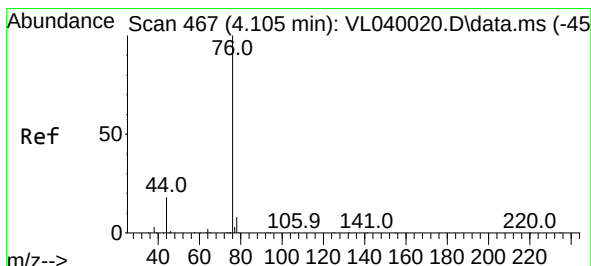
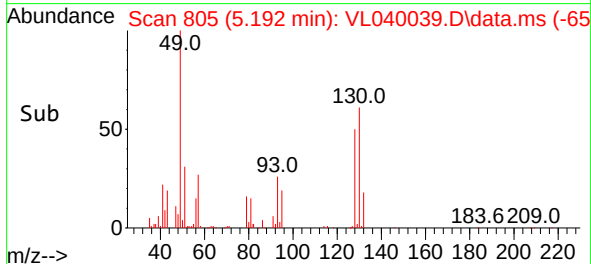
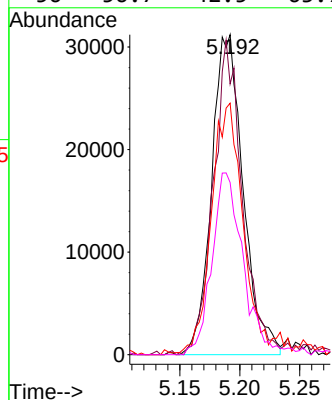
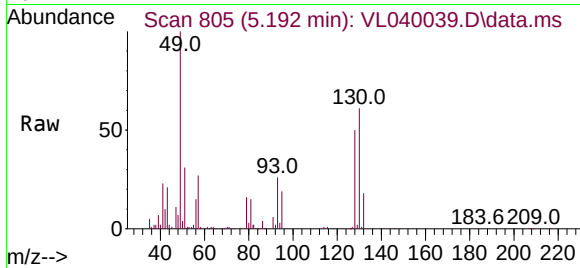




#26
Hexane
Concen: 0.487 ppbv
RT: 5.192 min Scan# 806
Delta R.T. -0.003 min
Lab File: VL040039.D
Acq: 19 Dec 2022 22:08

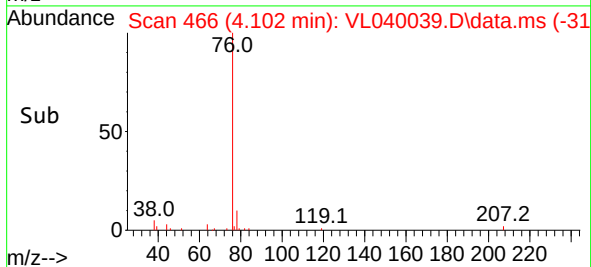
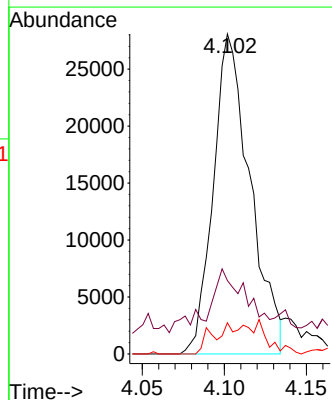
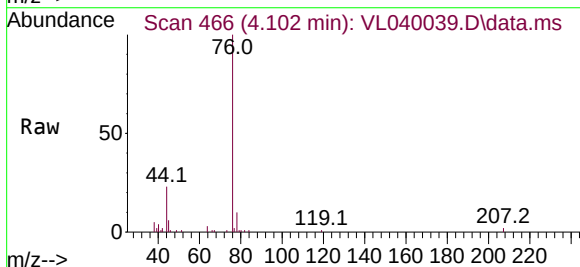
Instrument :
MSVOA_L
ClientSampleId :
SS-3DL

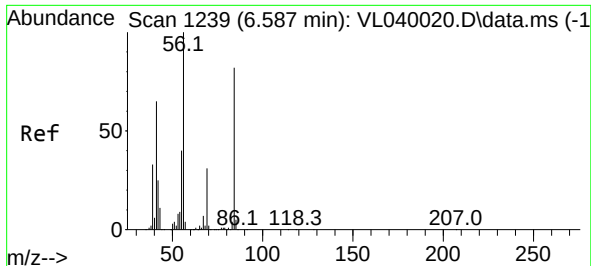
Tgt Ion: 57 Resp: 57041
Ion Ratio Lower Upper
57 100
41 92.5 72.1 108.1
43 84.9 192.1 288.1#
56 56.7 42.5 63.7



#27
Carbon Disulfide
Concen: 0.296 ppbv
RT: 4.102 min Scan# 466
Delta R.T. -0.003 min
Lab File: VL040039.D
Acq: 19 Dec 2022 22:08

Tgt Ion: 76 Resp: 43679
Ion Ratio Lower Upper
76 100
44 32.8 15.3 22.9#
78 0.0 7.8 11.6#

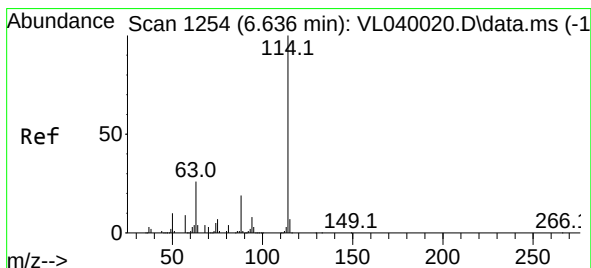
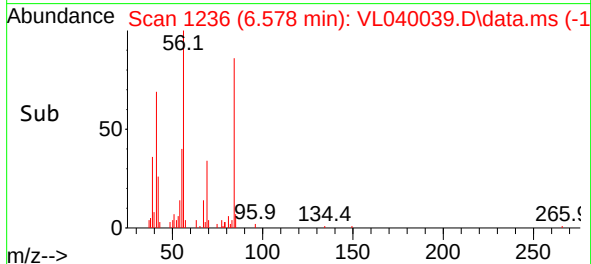
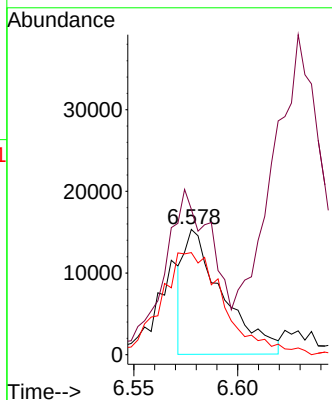
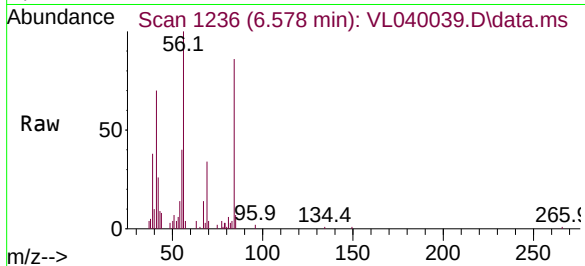




#30
Cyclohexane
Concen: 0.193 ppbv
RT: 6.578 min Scan# 11
Delta R.T. -0.010 min
Lab File: VL040039.D
Acq: 19 Dec 2022 22:08

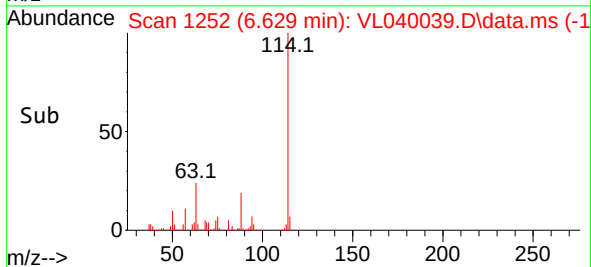
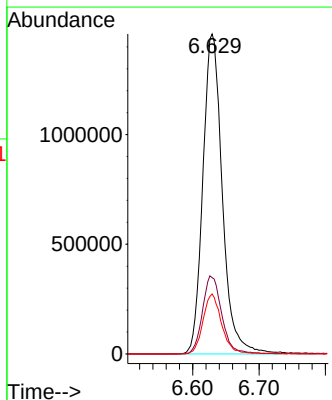
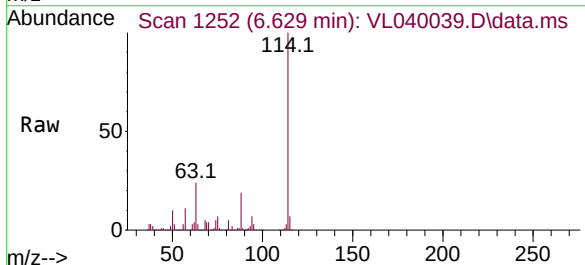
Instrument :
MSVOA_L
ClientSampleId :
SS-3DL

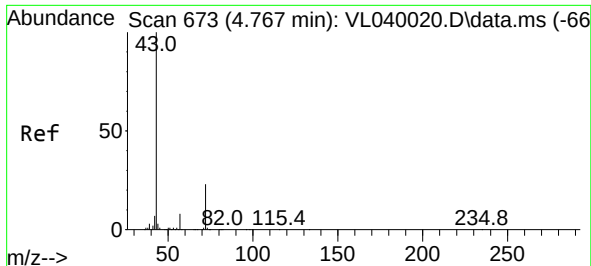
Tgt Ion: 84 Resp: 20028
Ion Ratio Lower Upper
84 100
56 186.3 110.2 165.4#
41 135.4 67.8 101.8#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.629 min Scan# 1252
Delta R.T. -0.006 min
Lab File: VL040039.D
Acq: 19 Dec 2022 22:08

Tgt Ion: 114 Resp: 2970313
Ion Ratio Lower Upper
114 100
63 24.3 20.2 30.2
88 18.1 14.6 21.8

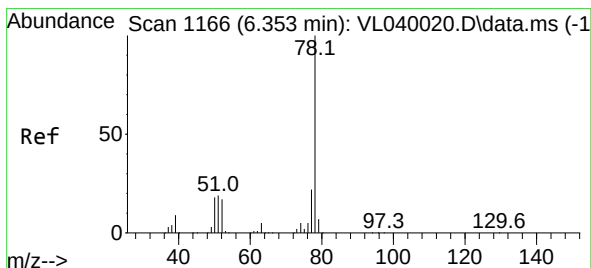
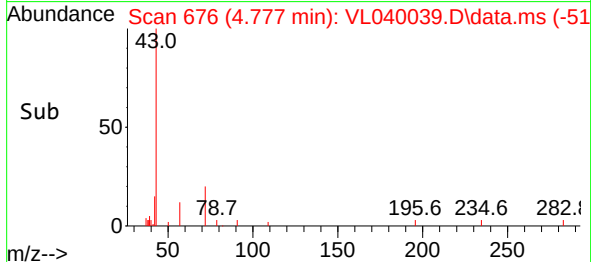
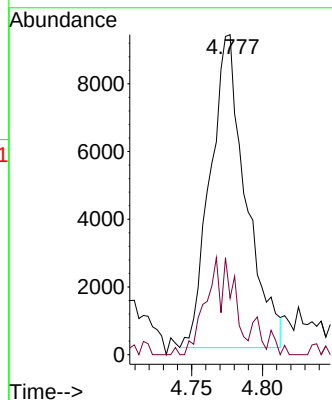
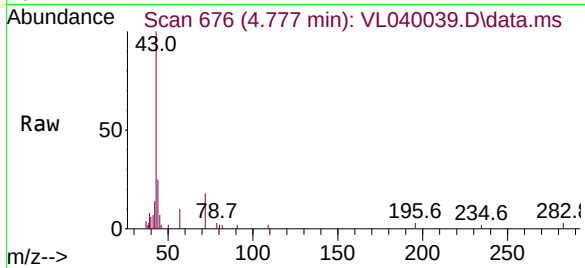




#34
2-Butanone
Concen: 0.100 ppbv
RT: 4.777 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL040039.D
Acq: 19 Dec 2022 22:08

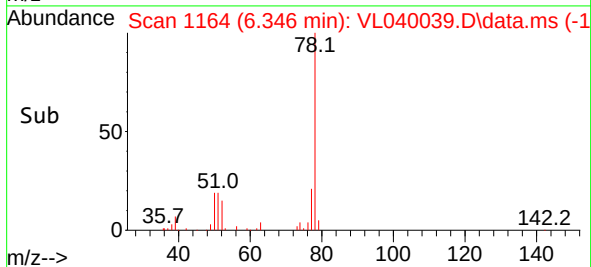
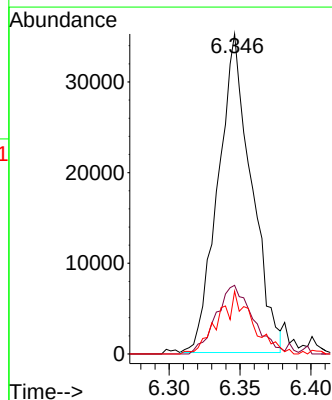
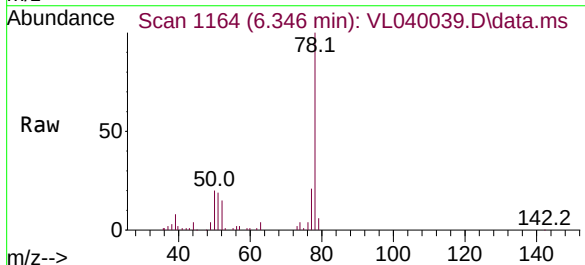
Instrument :
MSVOA_L
ClientSampleId :
SS-3DL

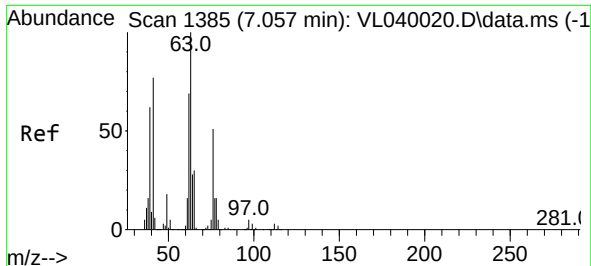
Tgt Ion: 43 Resp: 16126
Ion Ratio Lower Upper
43 100
72 28.6 18.0 27.0#



#36
Benzene
Concen: 0.217 ppbv
RT: 6.346 min Scan# 1164
Delta R.T. -0.006 min
Lab File: VL040039.D
Acq: 19 Dec 2022 22:08

Tgt Ion: 78 Resp: 57604
Ion Ratio Lower Upper
78 100
77 21.6 17.5 26.3
50 19.7 14.2 21.2





#39

1,2-Dichloropropane

Concen: 7.160 ppbv

RT: 6.626 min Scan# 11

Delta R.T. -0.431 min

Lab File: VL040039.D

Acq: 19 Dec 2022 22:08

Instrument :

MSVOA_1

ClientSampleId :

SS-3DL

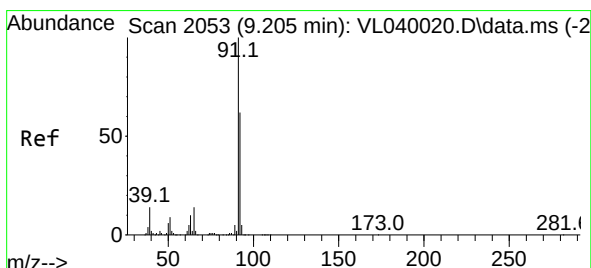
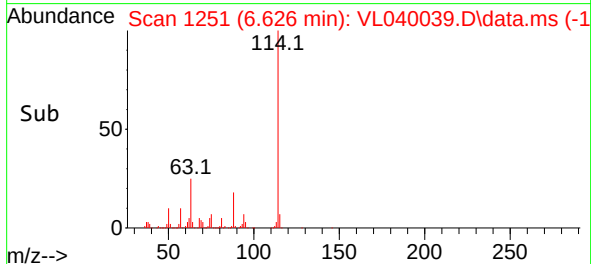
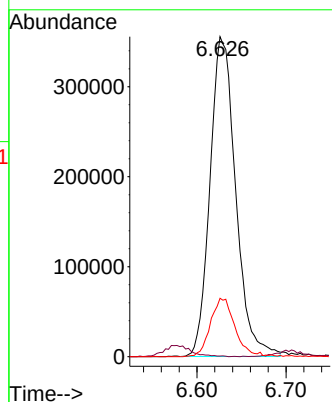
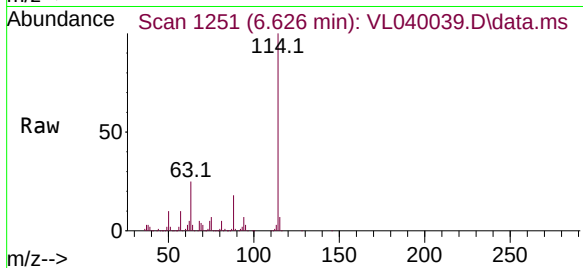
Tgt Ion: 63 Resp: 711952

Ion Ratio Lower Upper

63 100

41 0.0 61.4 92.0#

62 18.3 55.4 83.2#



#53

Toluene

Concen: 0.226 ppbv

RT: 9.195 min Scan# 2050

Delta R.T. -0.010 min

Lab File: VL040039.D

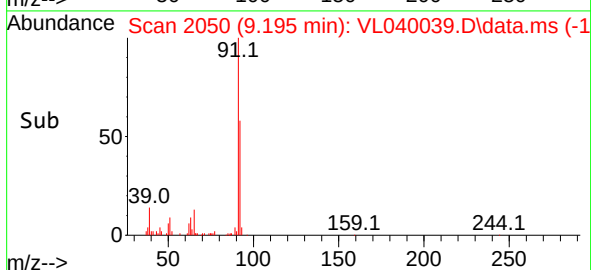
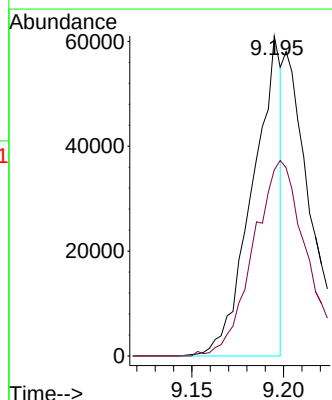
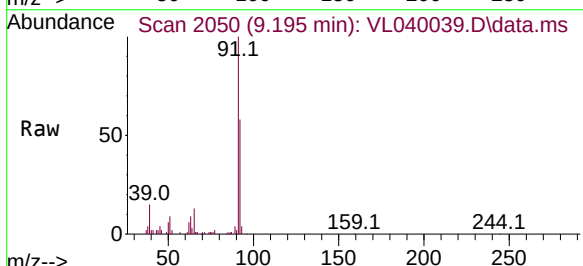
Acq: 19 Dec 2022 22:08

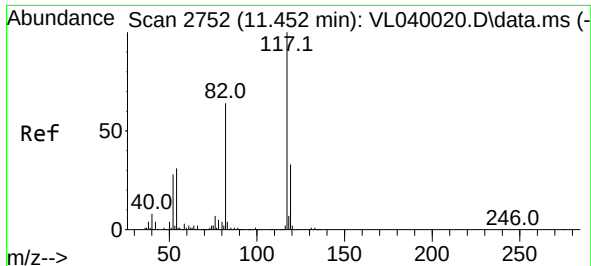
Tgt Ion: 91 Resp: 66241

Ion Ratio Lower Upper

91 100

92 0.0 48.7 73.1#

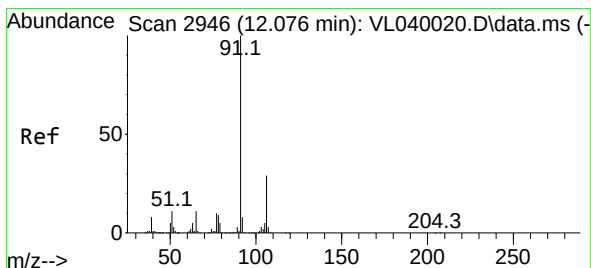
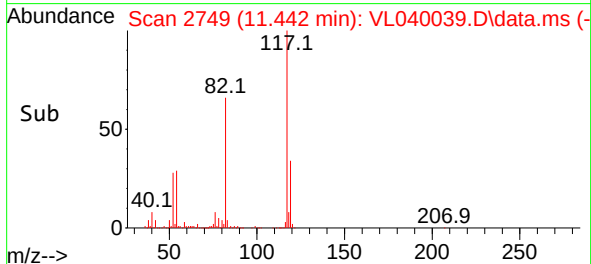
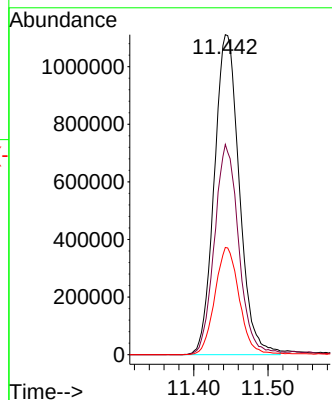
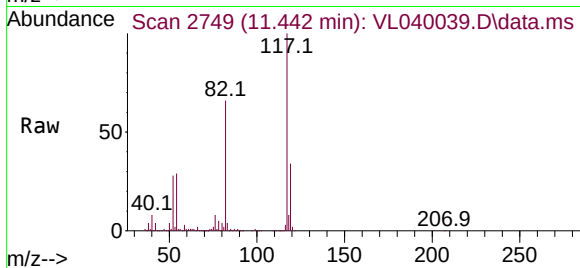




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.442 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL040039.D
Acq: 19 Dec 2022 22:08

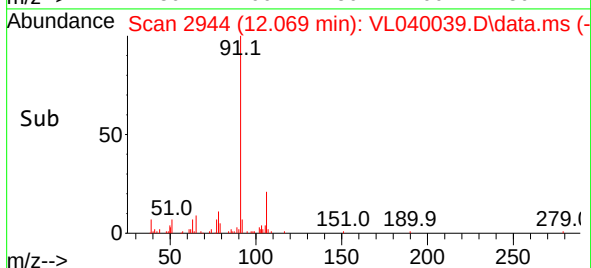
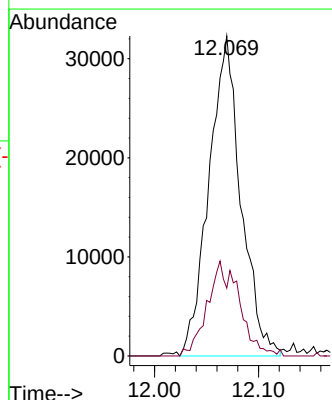
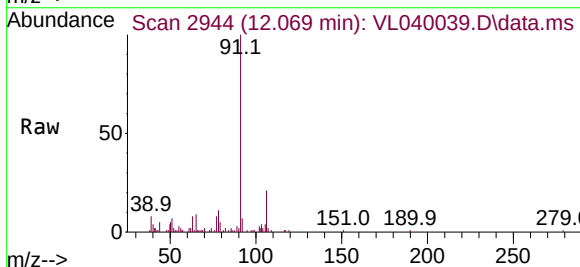
Instrument :
MSVOA_L
ClientSampleId :
SS-3DL

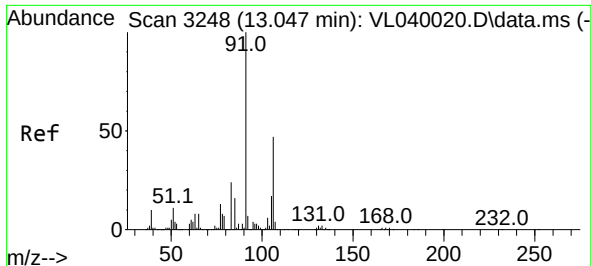
Tgt Ion:117 Resp: 2605261
Ion Ratio Lower Upper
117 100
82 65.4 51.2 76.8
119 33.1 23.2 34.8



#58
Ethyl Benzene
Concen: 0.186 ppbv
RT: 12.069 min Scan# 2944
Delta R.T. -0.006 min
Lab File: VL040039.D
Acq: 19 Dec 2022 22:08

Tgt Ion: 91 Resp: 69014
Ion Ratio Lower Upper
91 100
106 21.2 23.5 35.3#

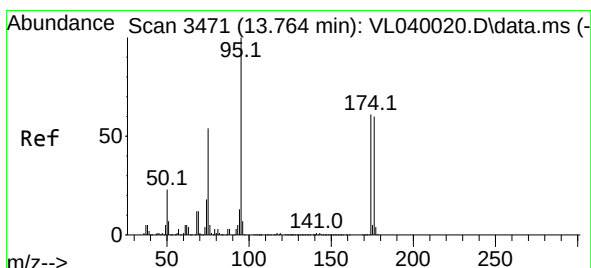
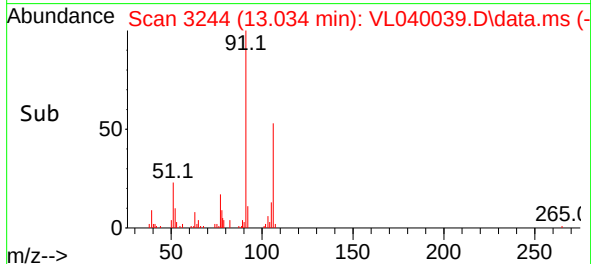
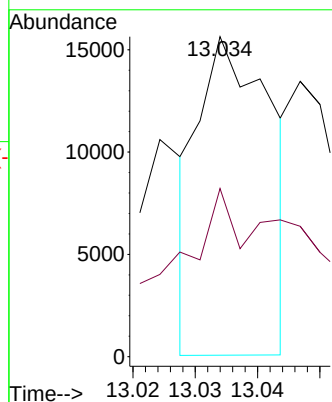
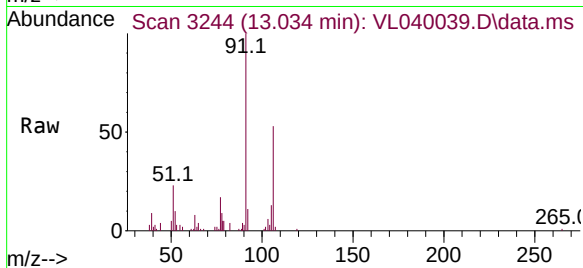




#60
o-Xylene
Concen: 0.041 ppbv
RT: 13.034 min Scan# 31
Delta R.T. -0.013 min
Lab File: VL040039.D
Acq: 19 Dec 2022 22:08

Instrument :
MSVOA_L
ClientSampleId :
SS-3DL

Tgt Ion: 91 Resp: 12583
Ion Ratio Lower Upper
91 100
106 122.4 22.4 67.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.687 ppbv
RT: 13.754 min Scan# 3468
Delta R.T. -0.010 min
Lab File: VL040039.D
Acq: 19 Dec 2022 22:08

Tgt Ion: 95 Resp: 1927775
Ion Ratio Lower Upper
95 100
174 65.0 48.6 73.0
175 4.7 3.4 5.2

