

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121322\Reviewed data\
 Data File : VL040018.D
 Acq On : 13 Dec 2022 23:31
 Operator : SY/MD
 Sample : N5971-02DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-5DL

Quant Time: Dec 21 15:08:09 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)

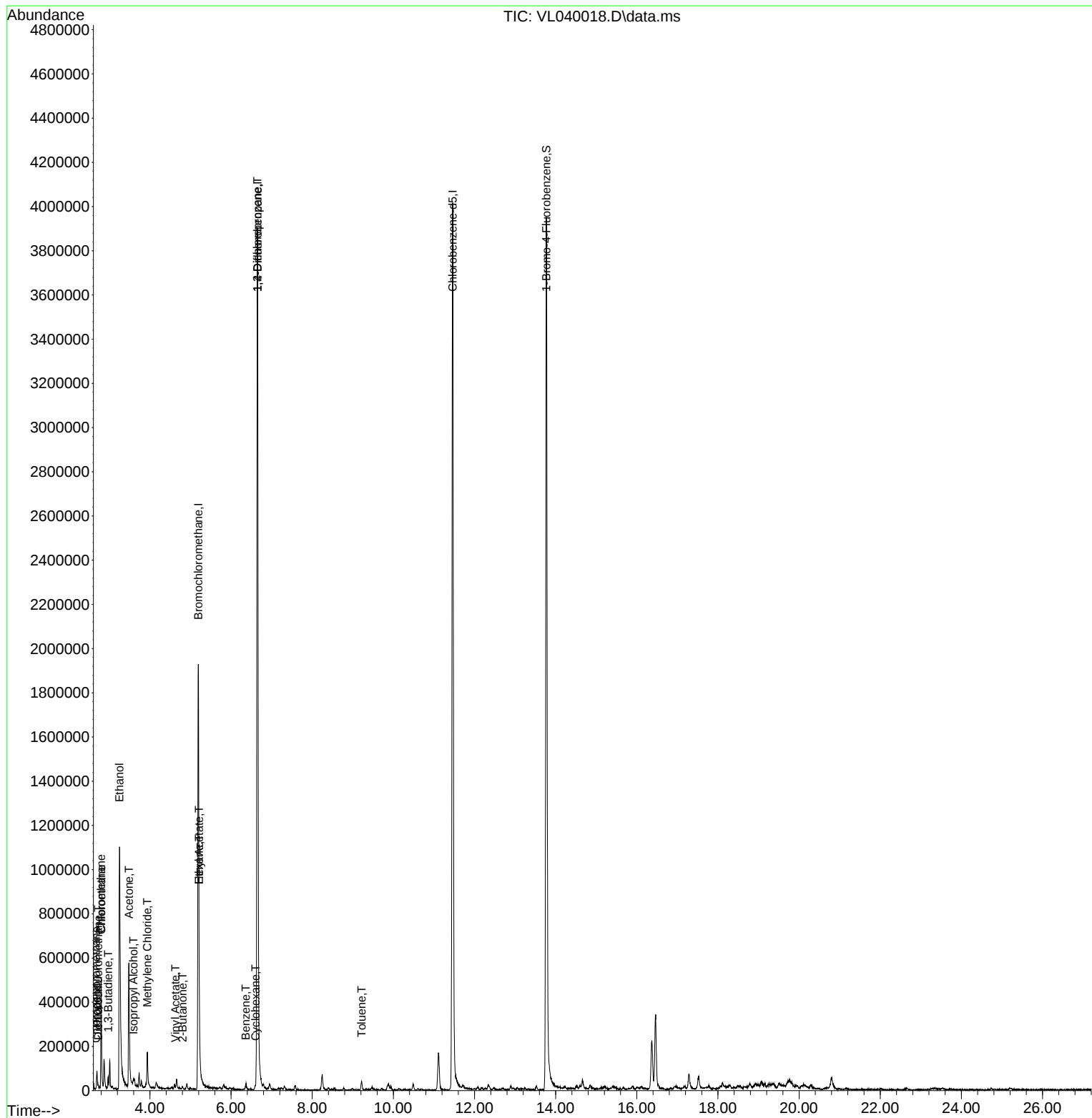
Internal Standards						
1) Bromochloromethane	5.192	49	1014826	10.000	ppbv	0.04
33) 1,4-Difluorobenzene	6.652	114	3140318	10.000	ppbv	0.03
55) Chlorobenzene-d5	11.462	117	2746189	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.770	95	2058156	9.812	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.726	85	8119	0.056	ppbv	100
3) Chlorodifluoromethane	2.674	51	8159	0.058	ppbv #	86
4) Chloromethane	2.796	50	4456	0.050	ppbv #	40
7) Chloroethane	2.800	64	27589	0.998	ppbv	96
9) Propene	2.690	41	31828	0.483	ppbv	97
13) Ethanol	3.250	45	1448796	287.673	ppbv	99
15) Acetone	3.481	43	557852	4.144	ppbv	99
16) 1,3-Butadiene	2.970	39	13572	0.202	ppbv #	8
19) Isopropyl Alcohol	3.594	45	30981	0.425	ppbv #	1
20) Methylene Chloride	3.938	84	52383	0.803	ppbv	96
23) Vinyl Acetate	4.629	43	1191	0.022	ppbv #	34
25) Ethyl Acetate	5.211	43	31588	0.128	ppbv #	89
26) Hexane	5.211	57	19921	0.185	ppbv #	51
30) Cyclohexane	6.603	84	3355	0.032	ppbv #	1
34) 2-Butanone	4.803	43	11052	0.074	ppbv #	87
36) Benzene	6.362	78	7603	0.028	ppbv #	91
39) 1,2-Dichloropropane	6.648	63	752707	7.238	ppbv #	26
53) Toluene	9.217	91	15042	0.049	ppbv #	22

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

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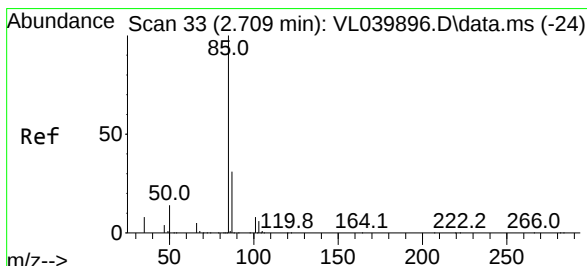
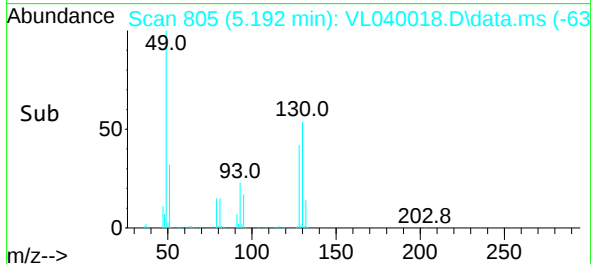
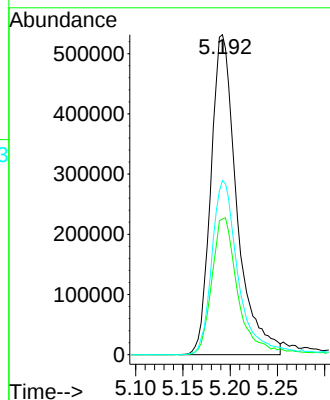
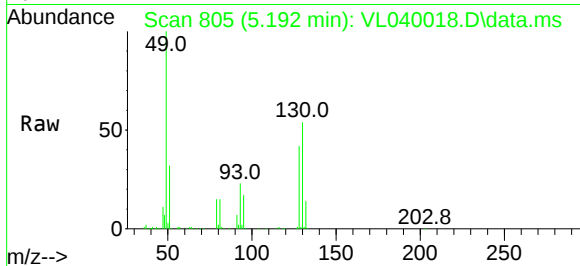




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. 0.036 min
Lab File: VL040018.D
Acq: 13 Dec 2022 23:31

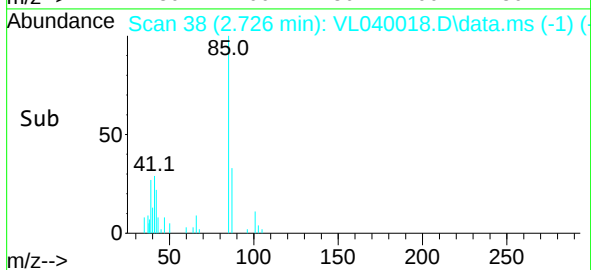
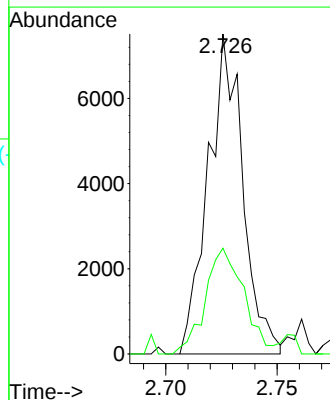
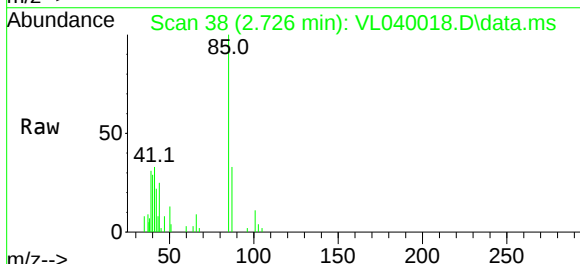
Instrument :
MSVOA_L
ClientSampleId :
SS-5DL

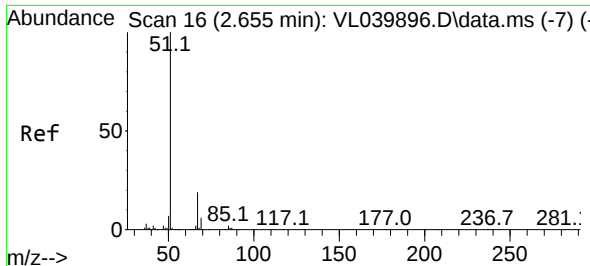
Tgt Ion: 49 Resp: 1014826
Ion Ratio Lower Upper
49 100
128 44.7 22.1 66.3
130 57.3 27.7 83.1



#2
Dichlorodifluoromethane
Concen: 0.056 ppbv
RT: 2.726 min Scan# 38
Delta R.T. 0.029 min
Lab File: VL040018.D
Acq: 13 Dec 2022 23:31

Tgt Ion: 85 Resp: 8119
Ion Ratio Lower Upper
85 100
87 30.9 25.0 37.4

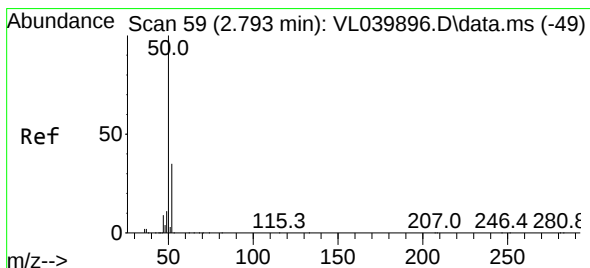
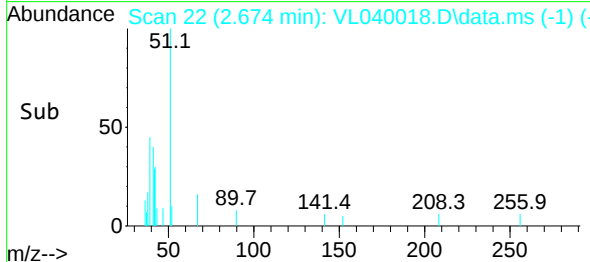
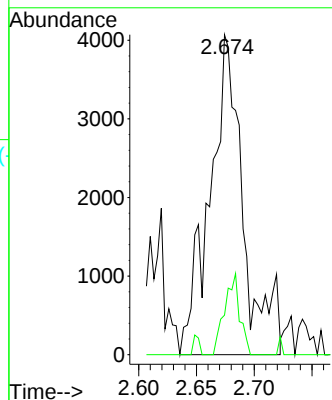
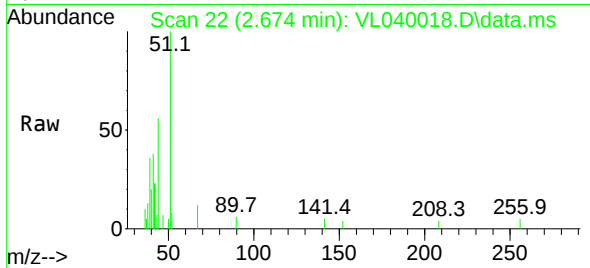




#3
Chlorodifluoromethane
Concen: 0.058 ppbv
RT: 2.674 min Scan# 21
Delta R.T. 0.032 min
Lab File: VL040018.D
Acq: 13 Dec 2022 23:31

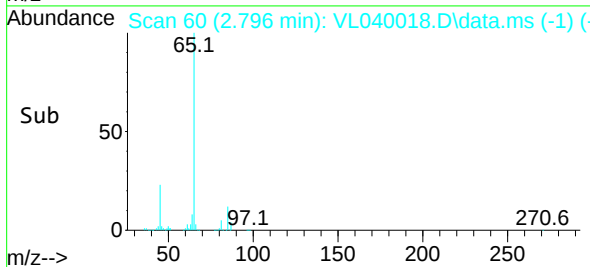
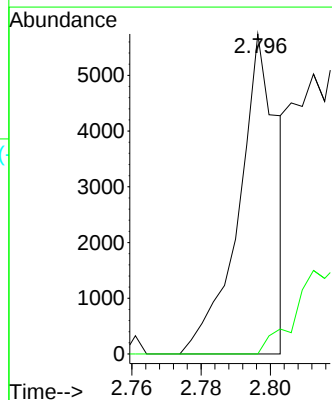
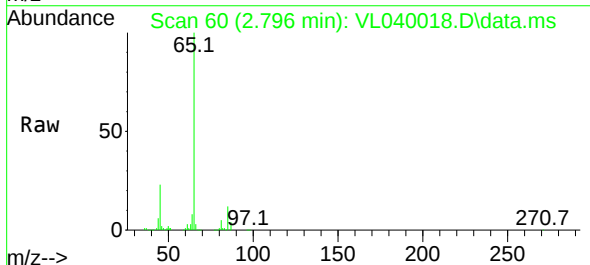
Instrument :
MSVOA_L
ClientSampleId :
SS-5DL

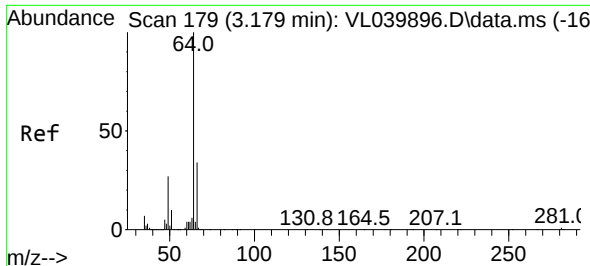
Tgt Ion: 51 Resp: 8159
Ion Ratio Lower Upper
51 100
67 11.6 14.2 21.4#



#4
Chloromethane
Concen: 0.050 ppbv
RT: 2.796 min Scan# 60
Delta R.T. 0.016 min
Lab File: VL040018.D
Acq: 13 Dec 2022 23:31

Tgt Ion: 50 Resp: 4456
Ion Ratio Lower Upper
50 100
52 0.0 27.8 41.8#

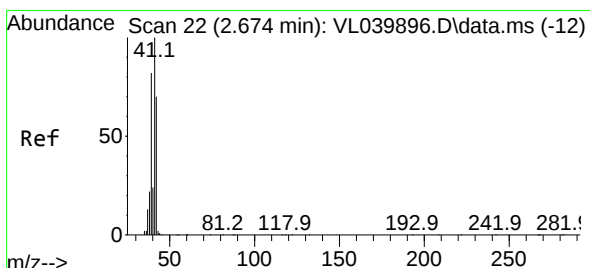
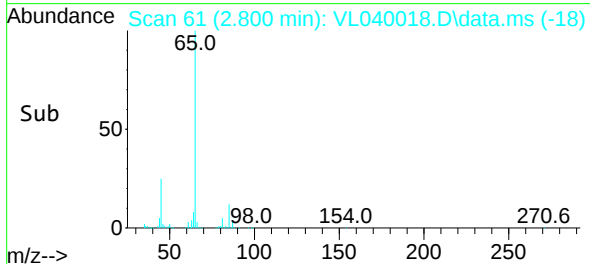
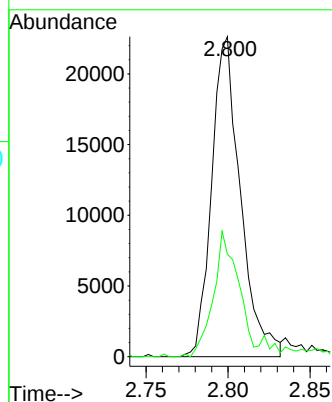
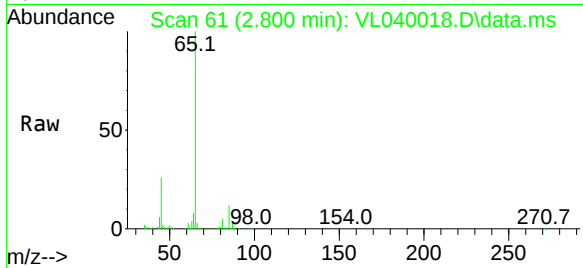




#7
Chloroethane
Concen: 0.998 ppbv
RT: 2.800 min Scan# 61
Delta R.T. -0.363 min
Lab File: VL040018.D
Acq: 13 Dec 2022 23:31

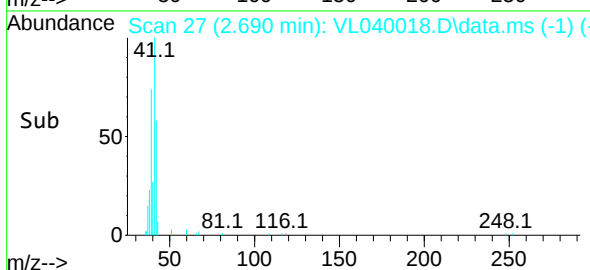
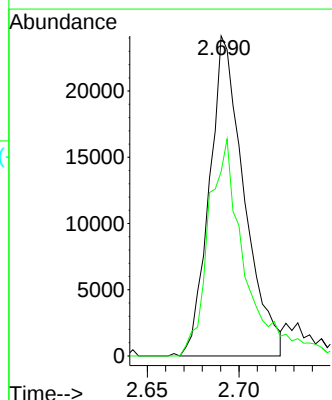
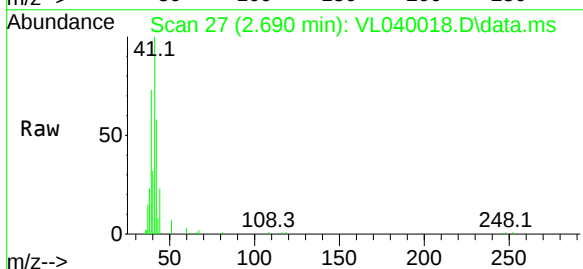
Instrument :
MSVOA_L
ClientSampleId :
SS-5DL

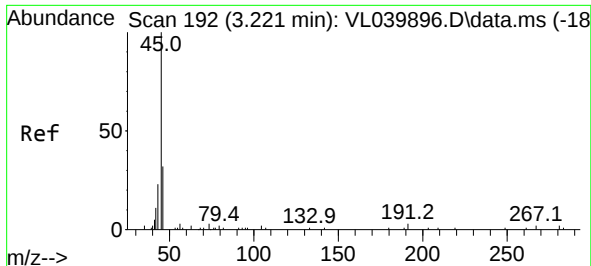
Tgt Ion: 64 Resp: 27589
Ion Ratio Lower Upper
64 100
66 32.1 27.3 40.9



#9
Propene
Concen: 0.483 ppbv
RT: 2.690 min Scan# 27
Delta R.T. 0.029 min
Lab File: VL040018.D
Acq: 13 Dec 2022 23:31

Tgt Ion: 41 Resp: 31828
Ion Ratio Lower Upper
41 100
42 72.3 55.8 83.6

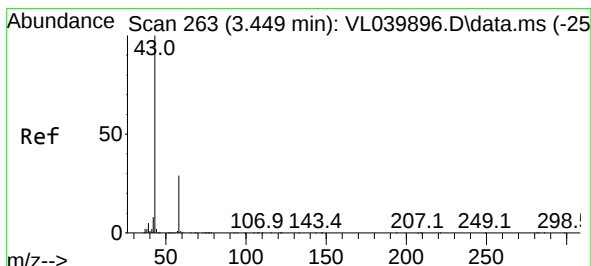
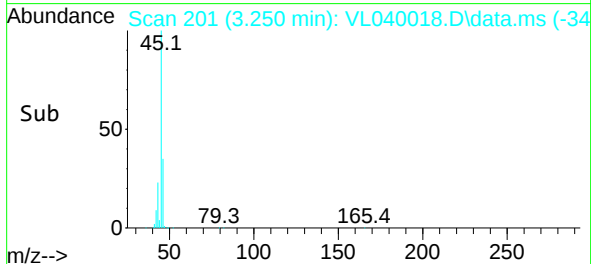
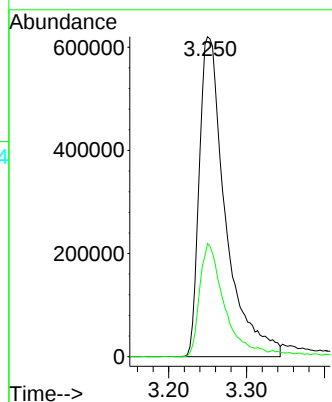
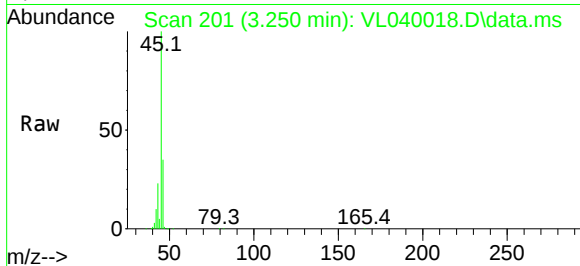




#13
Ethanol
Concen: 287.673 ppbv
RT: 3.250 min Scan# 20
Delta R.T. 0.035 min
Lab File: VL040018.D
Acq: 13 Dec 2022 23:31

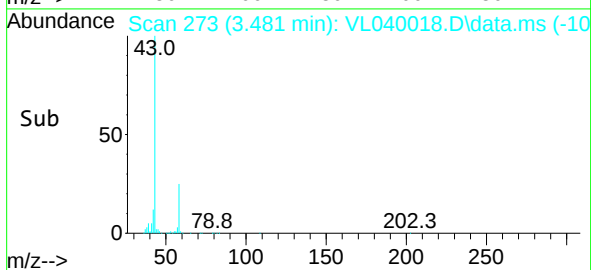
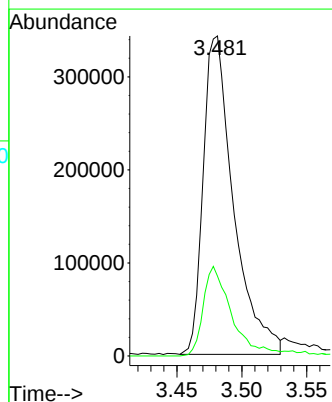
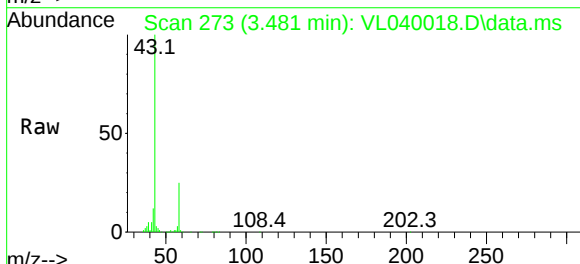
Instrument :
MSVOA_L
ClientSampleId :
SS-5DL

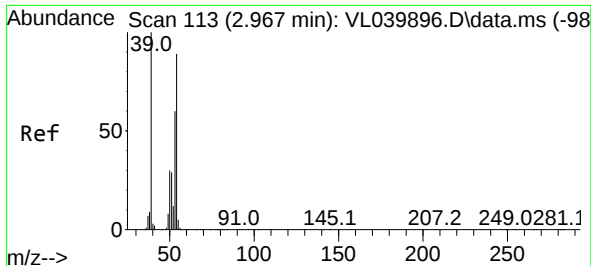
Tgt Ion: 45 Resp: 1448796
Ion Ratio Lower Upper
45 100
46 35.9 14.6 58.2



#15
Acetone
Concen: 4.144 ppbv
RT: 3.481 min Scan# 273
Delta R.T. 0.048 min
Lab File: VL040018.D
Acq: 13 Dec 2022 23:31

Tgt Ion: 43 Resp: 557852
Ion Ratio Lower Upper
43 100
58 28.2 22.9 34.3

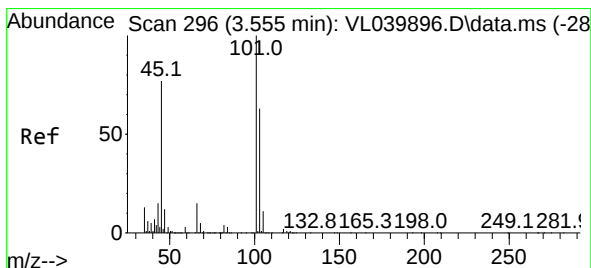
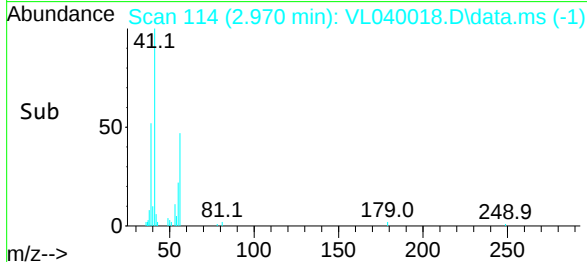
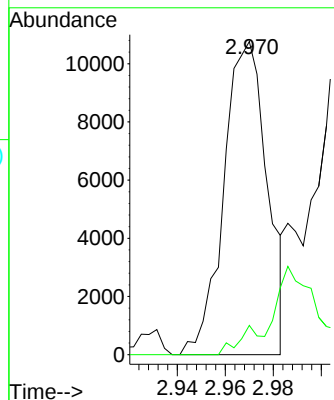
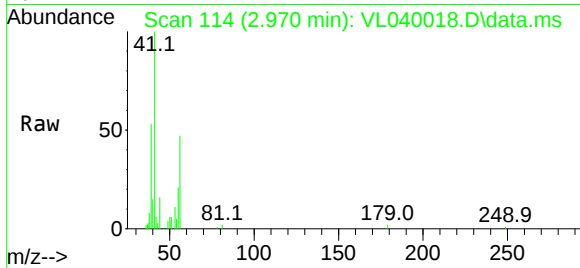




#16
1,3-Butadiene
Concen: 0.202 ppbv
RT: 2.970 min Scan# 113
Delta R.T. 0.019 min
Lab File: VL040018.D
Acq: 13 Dec 2022 23:31

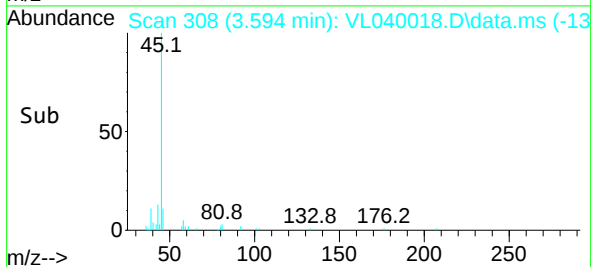
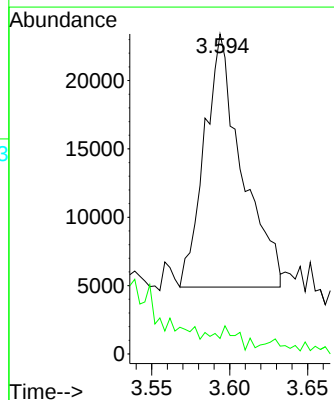
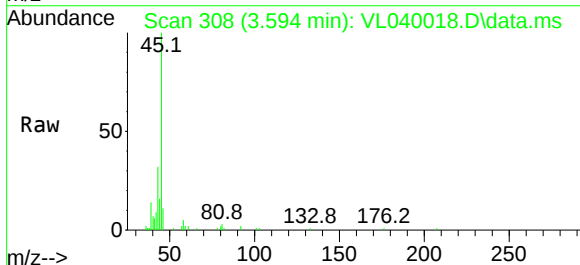
Instrument :
MSVOA_L
ClientSampleId :
SS-5DL

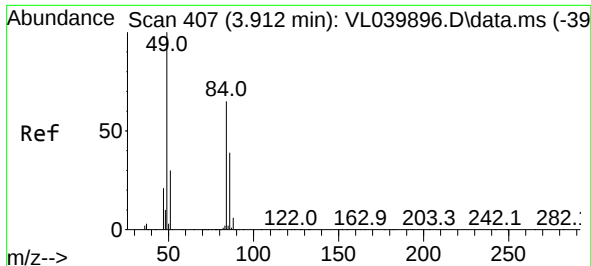
Tgt Ion: 39 Resp: 13572
Ion Ratio Lower Upper
39 100
54 0.0 66.6 99.8#



#19
Isopropyl Alcohol
Concen: 0.425 ppbv
RT: 3.594 min Scan# 308
Delta R.T. 0.052 min
Lab File: VL040018.D
Acq: 13 Dec 2022 23:31

Tgt Ion: 45 Resp: 30981
Ion Ratio Lower Upper
45 100
58 512.4 38.7 58.1#





#20

Methylene Chloride

Concen: 0.803 ppbv

RT: 3.938 min Scan# 415

Delta R.T. 0.042 min

Lab File: VL040018.D

Acq: 13 Dec 2022 23:31

Instrument :

MSVOA_L

ClientSampleId :

SS-5DL

Tgt Ion: 84 Resp: 52383

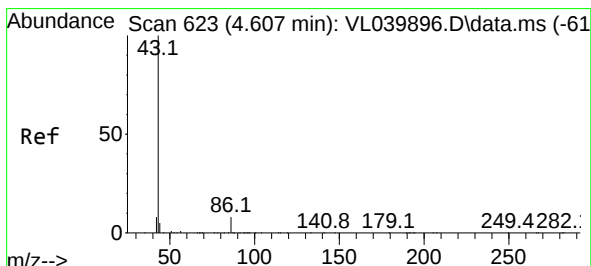
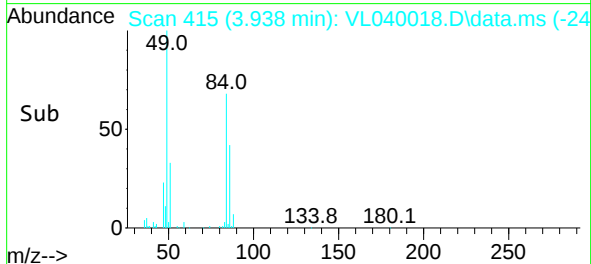
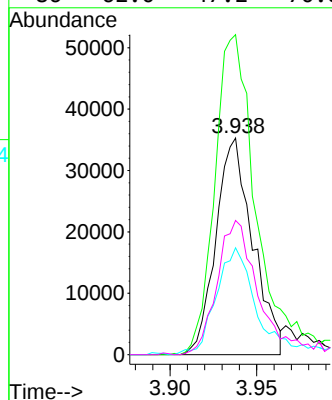
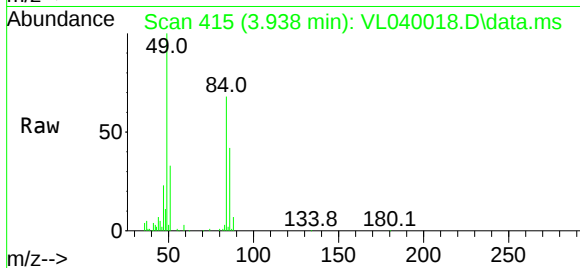
Ion Ratio Lower Upper

84 100

49 147.7 122.2 183.4

51 48.2 36.3 54.5

86 62.0 47.2 70.8



#23

Vinyl Acetate

Concen: 0.022 ppbv

RT: 4.629 min Scan# 630

Delta R.T. 0.035 min

Lab File: VL040018.D

Acq: 13 Dec 2022 23:31

Tgt Ion: 43 Resp: 1191

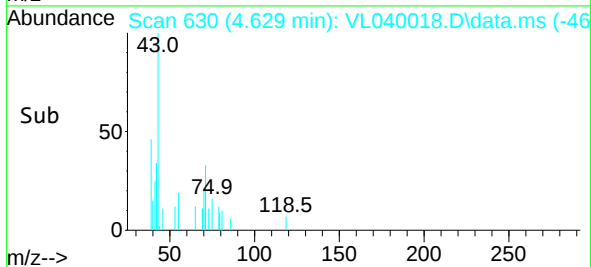
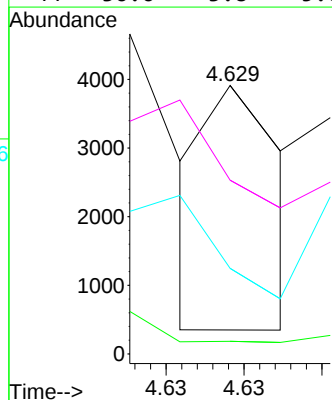
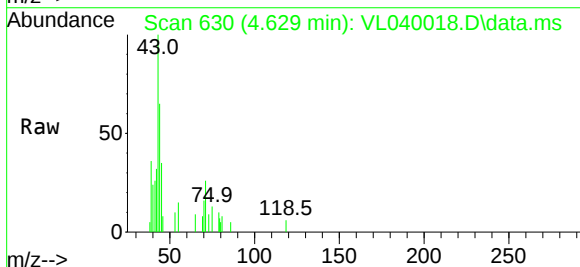
Ion Ratio Lower Upper

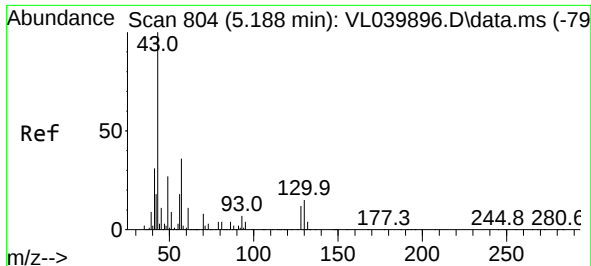
43 100

86 1.5 5.0 7.4#

42 40.2 7.6 11.4#

44 36.6 3.8 5.6#



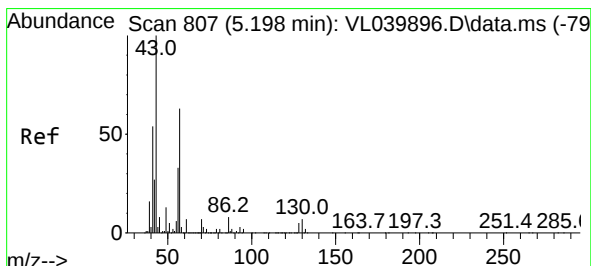
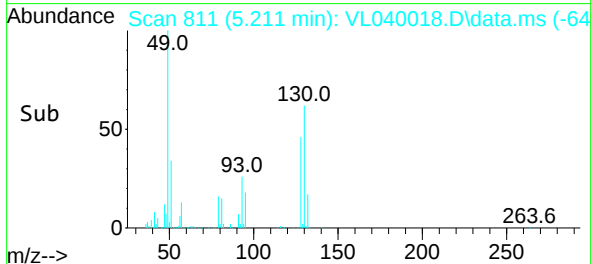
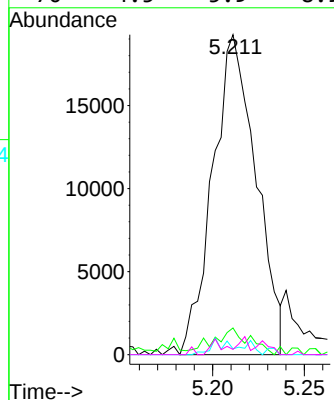
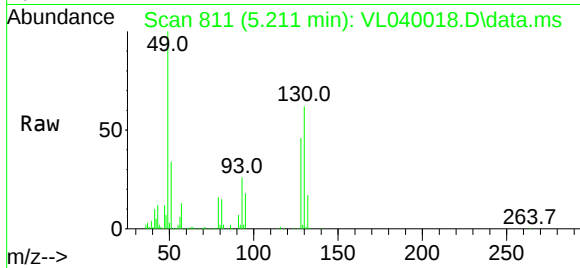


#25
Ethyl Acetate
Concen: 0.128 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.042 min
Lab File: VL040018.D
Acq: 13 Dec 2022 23:31

Instrument :
MSVOA_L
ClientSampleId :
SS-5DL

Tgt Ion: 43 Resp: 31588

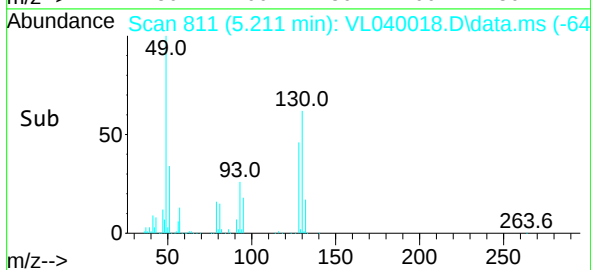
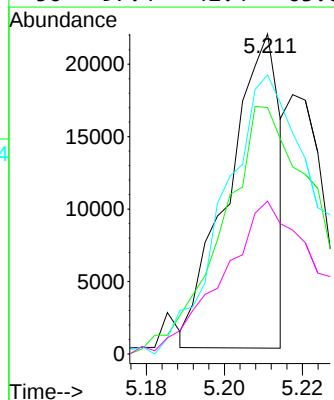
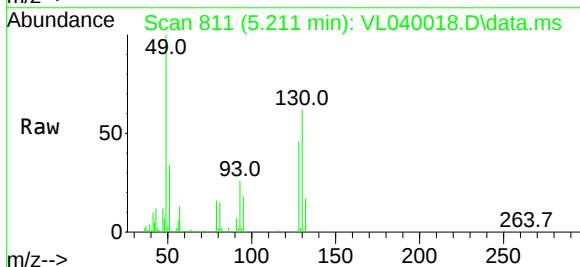
Ion	Ratio	Lower	Upper
43	100		
45	8.6	8.4	12.6
61	3.6	8.5	12.7#
70	4.5	5.9	8.9#

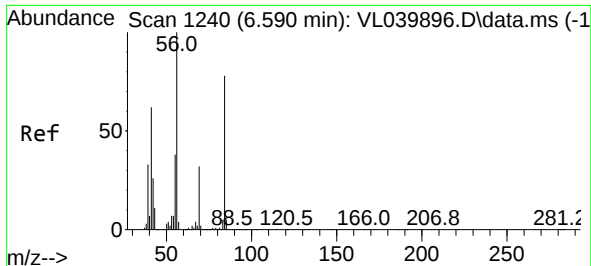


#26
Hexane
Concen: 0.185 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.035 min
Lab File: VL040018.D
Acq: 13 Dec 2022 23:31

Tgt Ion: 57 Resp: 19921

Ion	Ratio	Lower	Upper
57	100		
41	162.5	72.3	108.5#
43	174.9	188.7	283.1#
56	97.4	42.4	63.6#

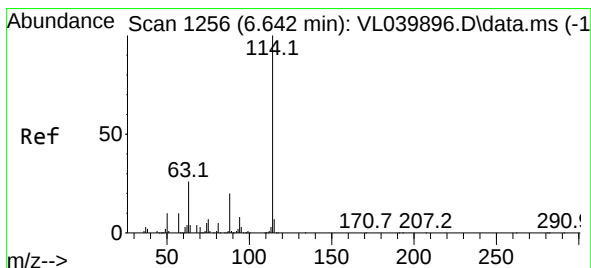
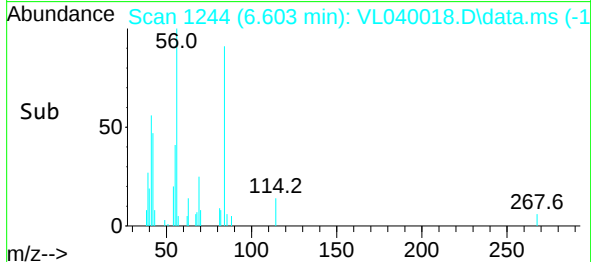
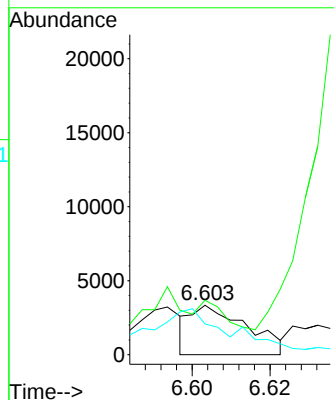
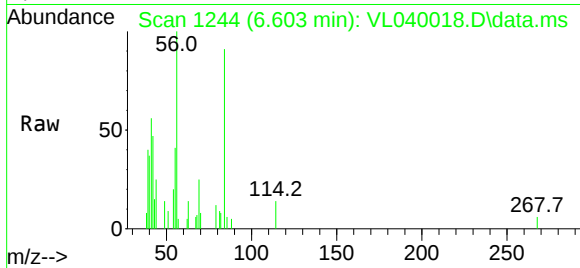




#30
Cyclohexane
Concen: 0.032 ppbv
RT: 6.603 min Scan# 11
Delta R.T. 0.039 min
Lab File: VL040018.D
Acq: 13 Dec 2022 23:31

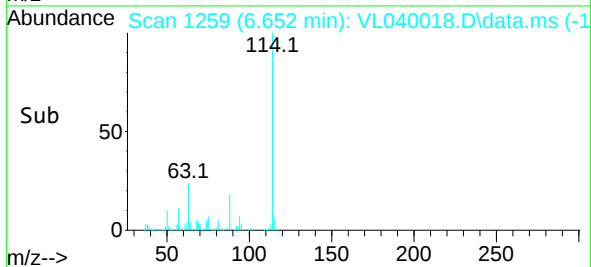
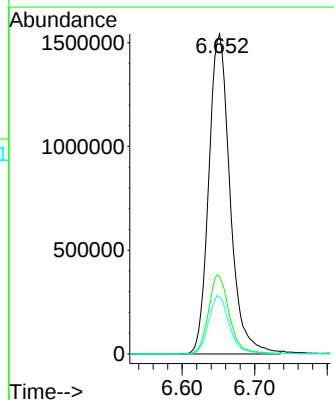
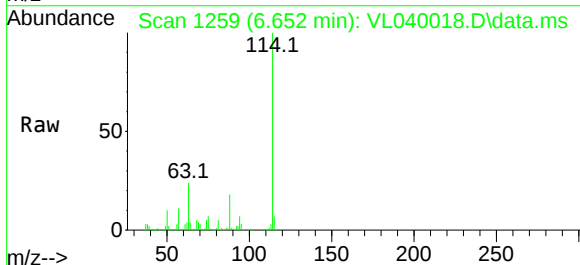
Instrument :
MSVOA_L
ClientSampleId :
SS-5DL

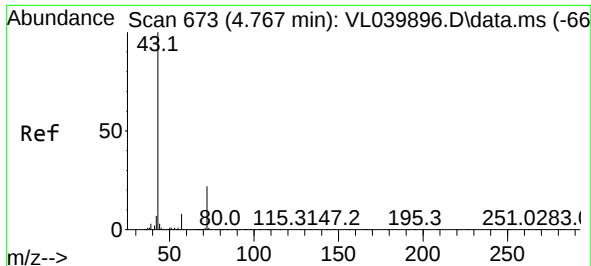
Tgt Ion: 84 Resp: 3355
Ion Ratio Lower Upper
84 100
56 0.0 112.5 168.7#
41 177.8 67.8 101.8#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.652 min Scan# 1259
Delta R.T. 0.032 min
Lab File: VL040018.D
Acq: 13 Dec 2022 23:31

Tgt Ion: 114 Resp: 3140318
Ion Ratio Lower Upper
114 100
63 24.5 21.4 32.0
88 17.9 15.3 22.9

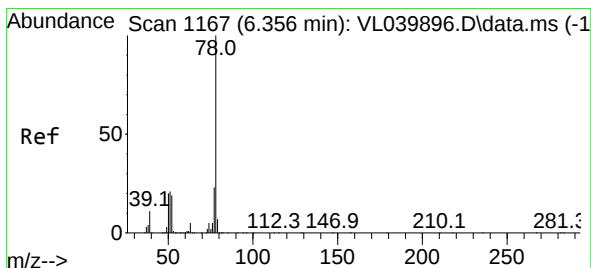
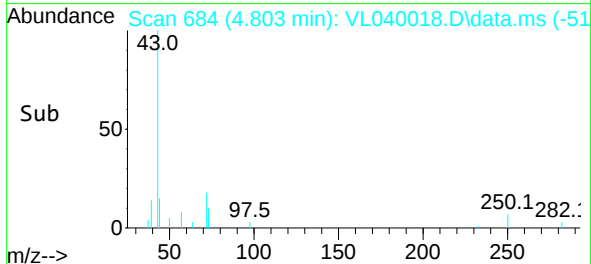
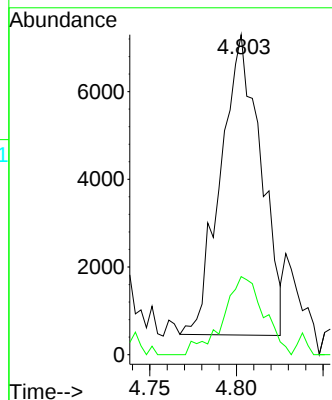
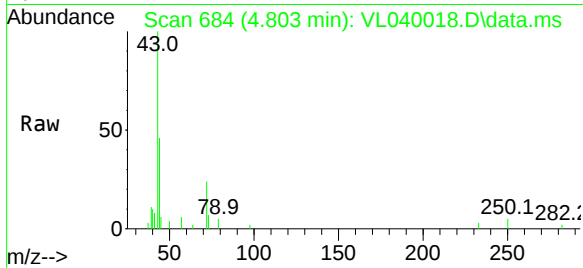




#34
2-Butanone
Concen: 0.074 ppbv
RT: 4.803 min Scan# 611
Delta R.T. 0.052 min
Lab File: VL040018.D
Acq: 13 Dec 2022 23:31

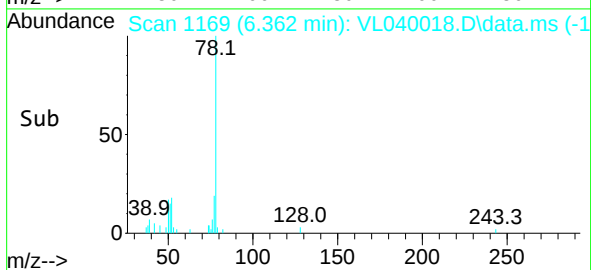
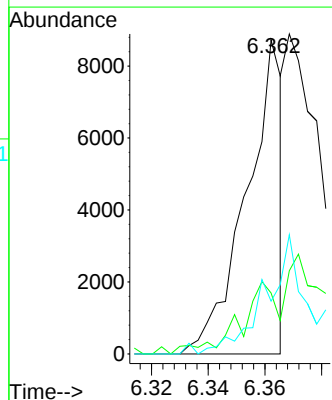
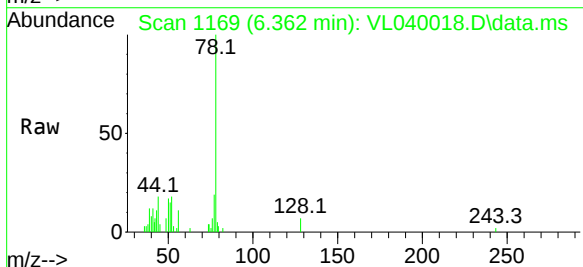
Instrument :
MSVOA_L
ClientSampleId :
SS-5DL

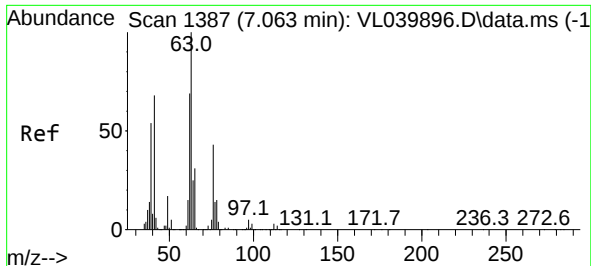
Tgt Ion: 43 Resp: 11052
Ion Ratio Lower Upper
43 100
72 27.9 17.4 26.2#



#36
Benzene
Concen: 0.028 ppbv
RT: 6.362 min Scan# 1169
Delta R.T. 0.029 min
Lab File: VL040018.D
Acq: 13 Dec 2022 23:31

Tgt Ion: 78 Resp: 7603
Ion Ratio Lower Upper
78 100
77 17.0 18.2 27.2#
50 16.8 15.8 23.8





#39

1,2-Dichloropropane

Concen: 7.238 ppbv

RT: 6.648 min Scan# 11

Delta R.T. -0.386 min

Lab File: VL040018.D

Acq: 13 Dec 2022 23:31

Instrument :

MSVOA_L

ClientSampleId :

SS-5DL

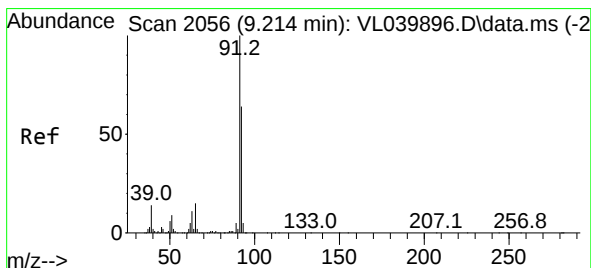
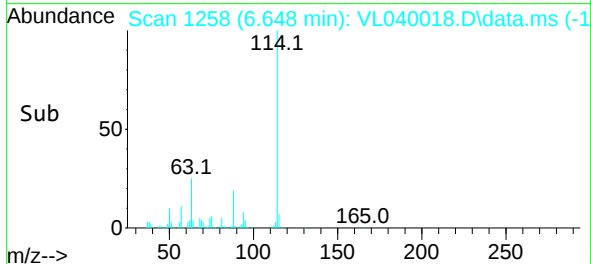
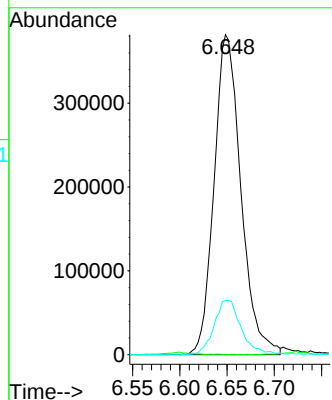
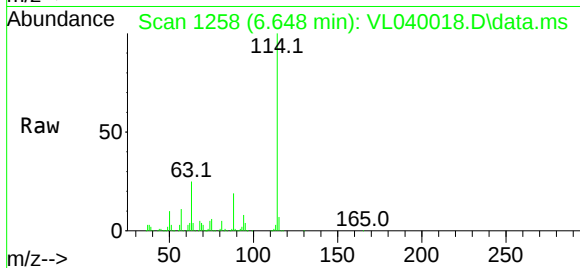
Tgt Ion: 63 Resp: 752707

Ion Ratio Lower Upper

63 100

41 0.0 54.7 82.1#

62 17.0 55.0 82.6#



#53

Toluene

Concen: 0.049 ppbv

RT: 9.217 min Scan# 2057

Delta R.T. 0.032 min

Lab File: VL040018.D

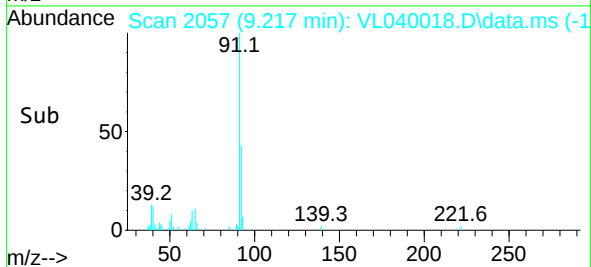
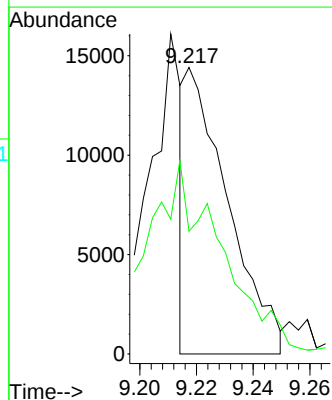
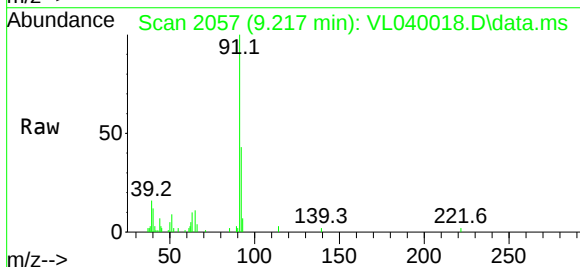
Acq: 13 Dec 2022 23:31

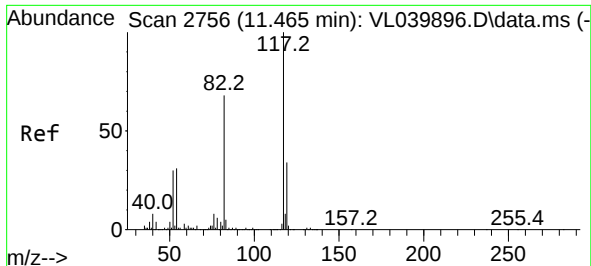
Tgt Ion: 91 Resp: 15042

Ion Ratio Lower Upper

91 100

92 122.2 49.8 74.6#

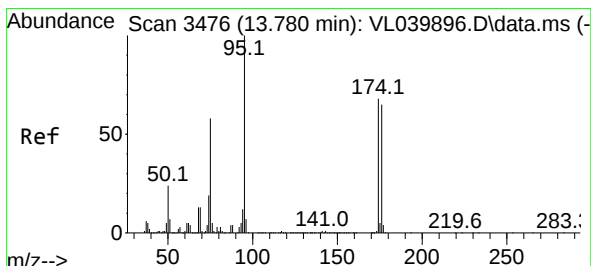
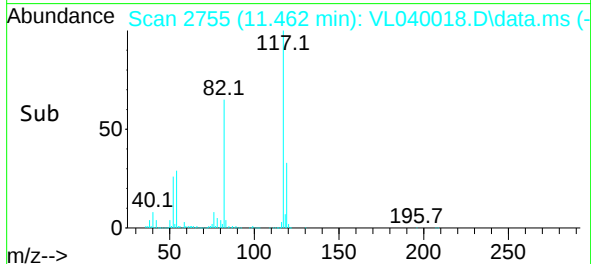
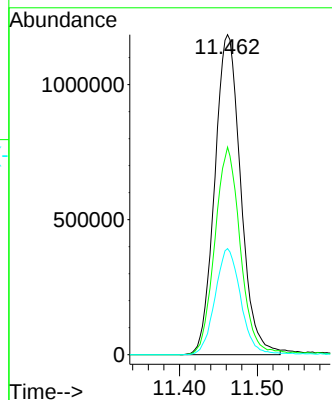
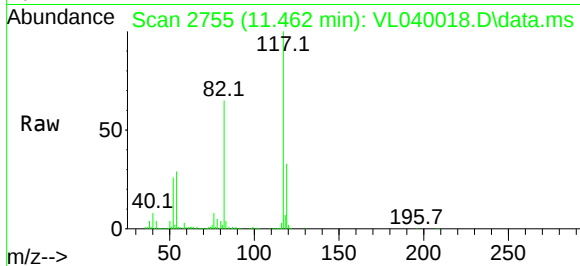




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.462 min Scan# 21
Delta R.T. 0.029 min
Lab File: VL040018.D
Acq: 13 Dec 2022 23:31

Instrument :
MSVOA_L
ClientSampleId :
SS-5DL

Tgt Ion:117 Resp: 2746189
Ion Ratio Lower Upper
117 100
82 65.0 52.3 78.5
119 33.2 25.7 38.5



#68
1-Bromo-4-Fluorobenzene
Concen: 9.812 ppbv
RT: 13.770 min Scan# 3473
Delta R.T. 0.029 min
Lab File: VL040018.D
Acq: 13 Dec 2022 23:31

Tgt Ion: 95 Resp: 2058156
Ion Ratio Lower Upper
95 100
174 65.1 53.7 80.5
175 4.5 4.0 6.0

