

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121922\
 Data File : VL040033.D
 Acq On : 19 Dec 2022 18:12
 Operator : SY/MD
 Sample : N6059-02DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

Quant Time: Dec 20 05:14:20 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	1093073	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.629	114	3012313	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.449	117	2602650	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.757	95	1966174	9.890	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.900%

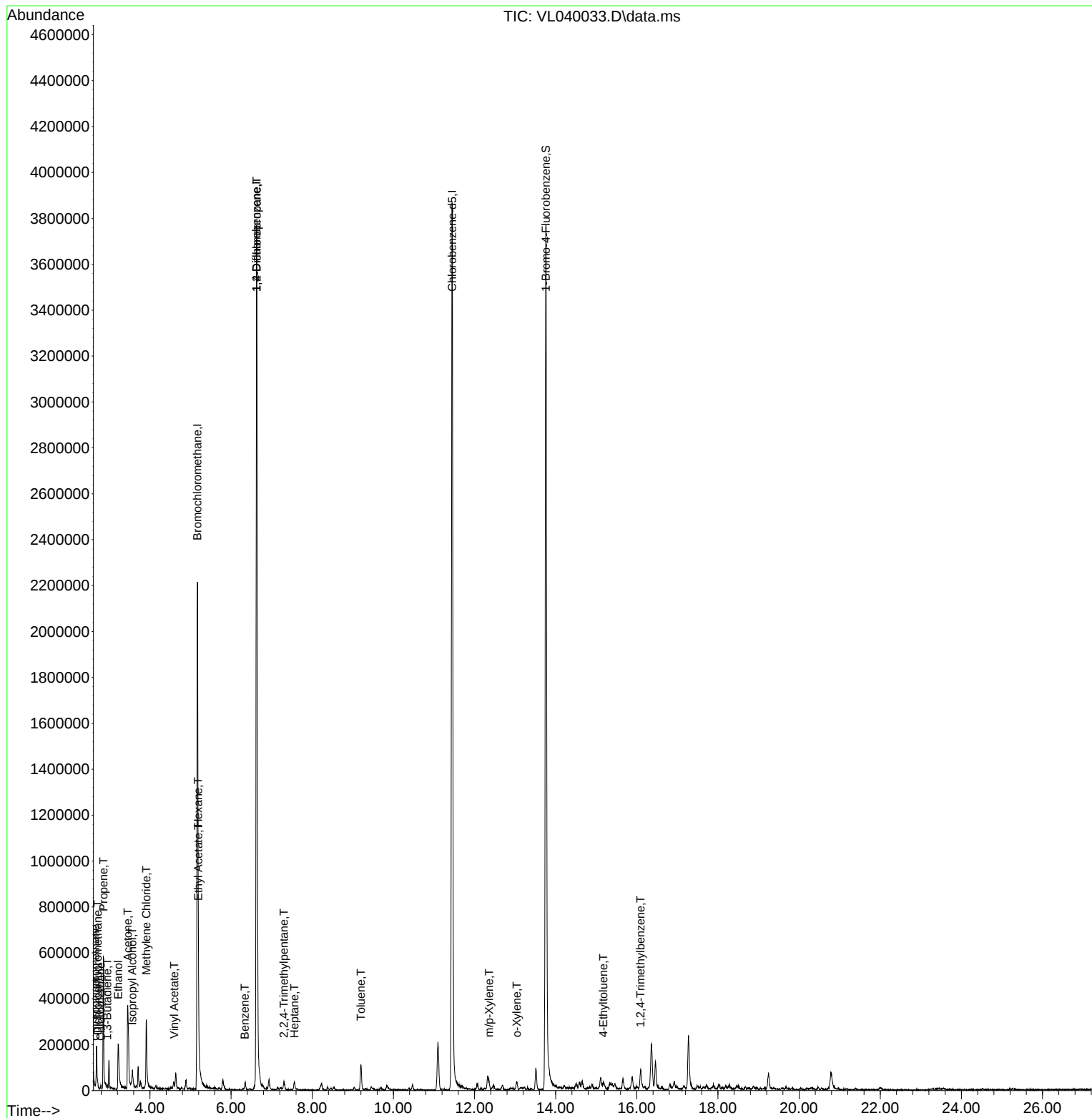
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.710	85	16785	0.082	ppbv	90
3) Chlorodifluoromethane	2.655	51	8969	0.056	ppbv	99
4) Chloromethane	2.793	50	9191	0.091	ppbv	90
9) Propene	2.851	41	153258	2.239	ppbv	99
10) Heptane	7.558	43	13862	0.083	ppbv	89
13) Ethanol	3.218	45	220004	34.154	ppbv	89
15) Acetone	3.452	43	398117	2.354	ppbv	97
16) 1,3-Butadiene	2.948	39	3675	0.050	ppbv #	35
19) Isopropyl Alcohol	3.568	45	79380	0.953	ppbv #	91
20) Methylene Chloride	3.912	84	95659	1.331	ppbv	88
23) Vinyl Acetate	4.597	43	4232	0.079	ppbv #	1
25) Ethyl Acetate	5.195	43	76800	0.262	ppbv #	87
26) Hexane	5.189	57	77947	0.633	ppbv #	49
36) Benzene	6.340	78	8987	0.033	ppbv	98
39) 1,2-Dichloropropane	6.632	63	736813	7.307	ppbv #	23
44) 2,2,4-Trimethylpentane	7.301	57	15800	0.036	ppbv #	15
53) Toluene	9.198	91	81993	0.275	ppbv	100
59) m/p-Xylene	12.359	91	10833	0.034	ppbv #	32
60) o-Xylene	13.040	91	14852	0.048	ppbv #	35
72) 4-Ethyltoluene	15.175	105	12316	0.036	ppbv #	61
74) 1,2,4-Trimethylbenzene	16.092	105	32132	0.094	ppbv #	69

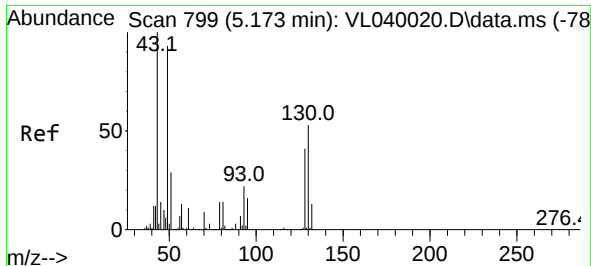
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121922\
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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
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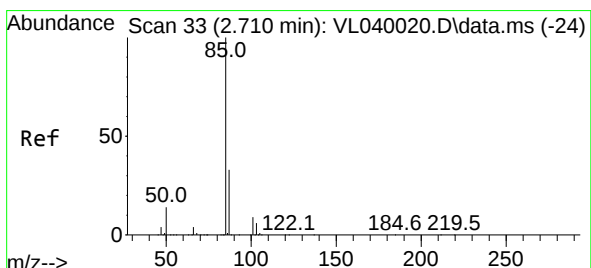
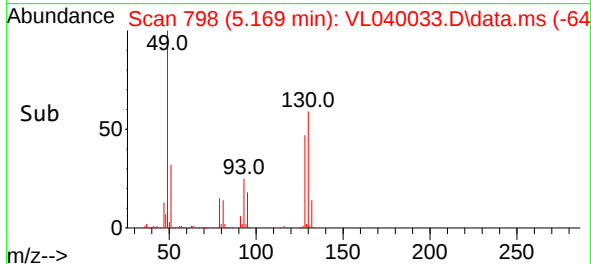
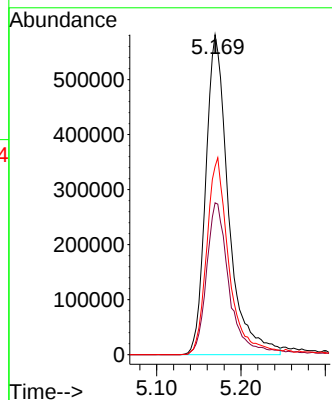
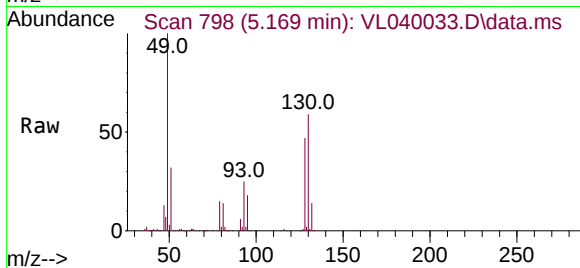




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.169 min Scan# 799
Delta R.T. -0.004 min
Lab File: VL040033.D
Acq: 19 Dec 2022 18:12

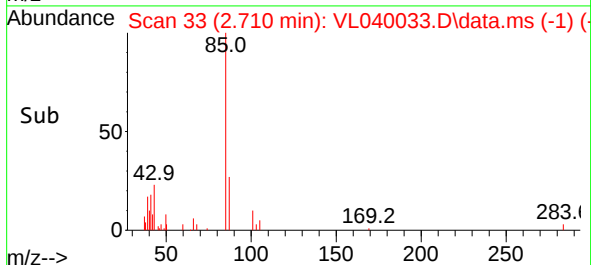
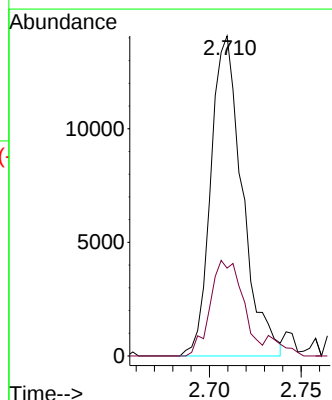
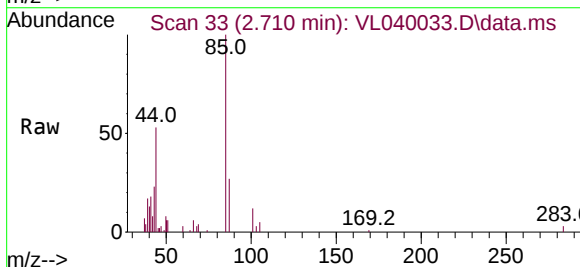
Instrument :
MSVOA_L
ClientSampleId :
IA1DL

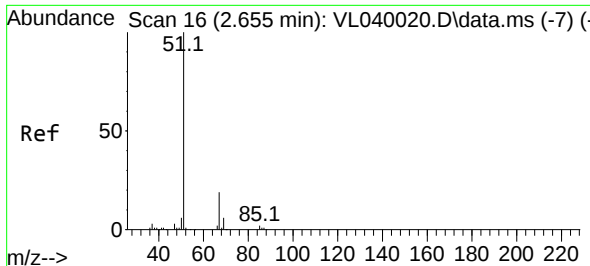
Tgt Ion: 49 Resp: 1093073
Ion Ratio Lower Upper
49 100
128 48.7 22.4 67.3
130 61.9 28.9 86.8



#2
Dichlorodifluoromethane
Concen: 0.082 ppbv
RT: 2.710 min Scan# 33
Delta R.T. 0.000 min
Lab File: VL040033.D
Acq: 19 Dec 2022 18:12

Tgt Ion: 85 Resp: 16785
Ion Ratio Lower Upper
85 100
87 27.5 26.6 40.0

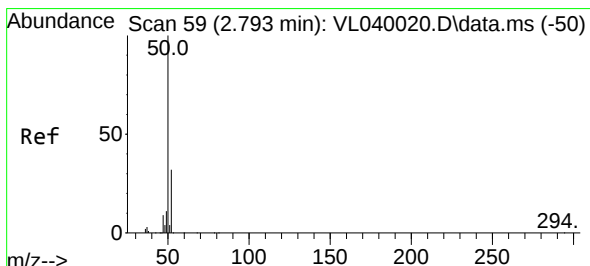
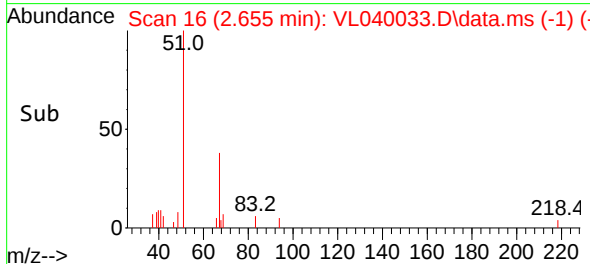
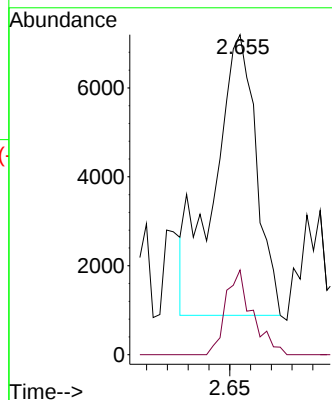
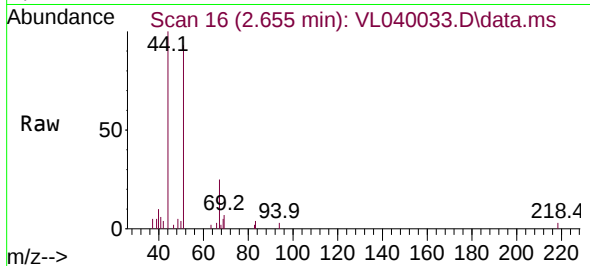




#3
Chlorodifluoromethane
Concen: 0.056 ppbv
RT: 2.655 min Scan# 16
Delta R.T. 0.000 min
Lab File: VL040033.D
Acq: 19 Dec 2022 18:12

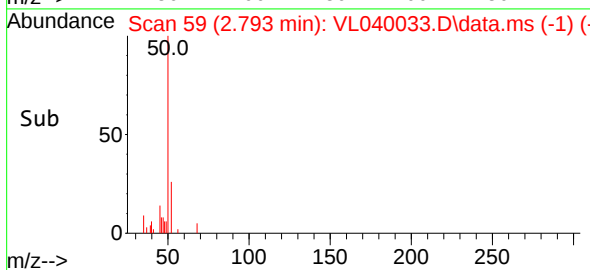
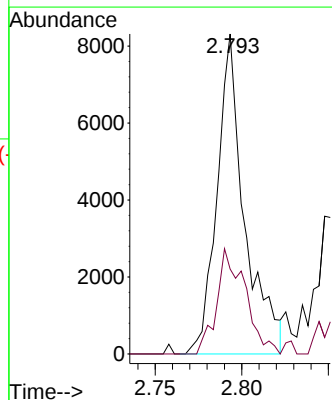
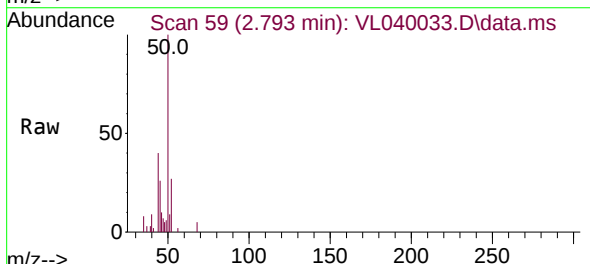
Instrument :
MSVOA_L
ClientSampleId :
IA1DL

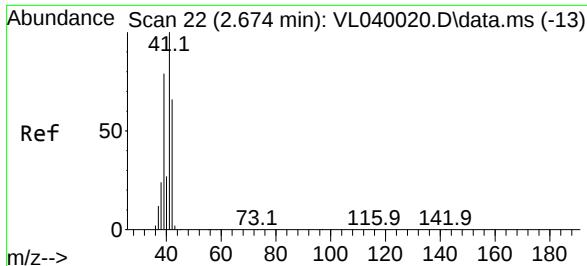
Tgt Ion: 51 Resp: 8969
Ion Ratio Lower Upper
51 100
67 18.8 15.3 22.9



#4
Chloromethane
Concen: 0.091 ppbv
RT: 2.793 min Scan# 59
Delta R.T. 0.000 min
Lab File: VL040033.D
Acq: 19 Dec 2022 18:12

Tgt Ion: 50 Resp: 9191
Ion Ratio Lower Upper
50 100
52 26.6 25.5 38.3

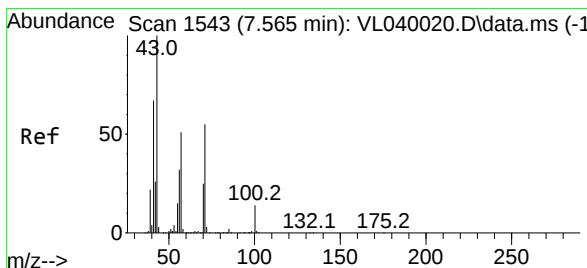
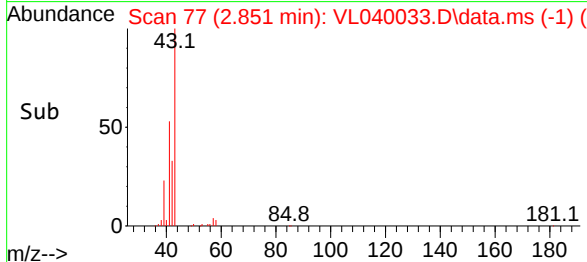
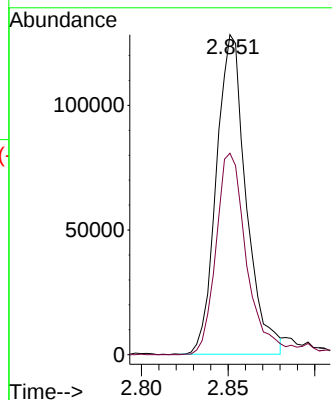
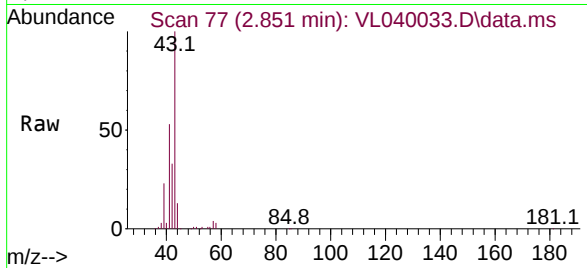




#9
 Propene
 Concen: 2.239 ppbv
 RT: 2.851 min Scan# 71
 Delta R.T. 0.177 min
 Lab File: VL040033.D
 Acq: 19 Dec 2022 18:12

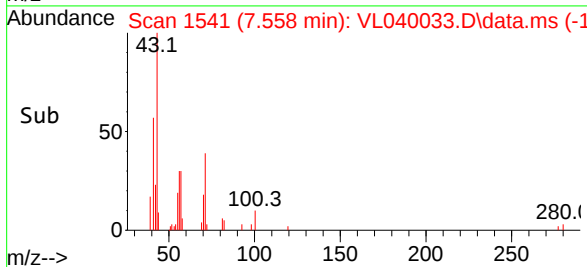
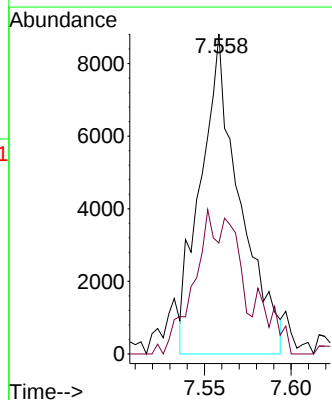
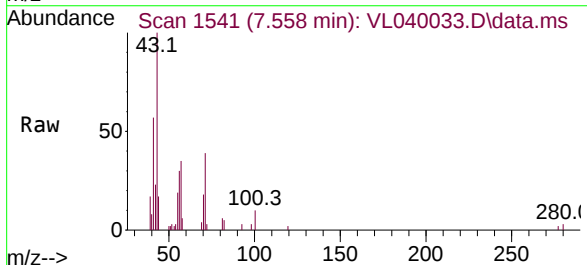
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

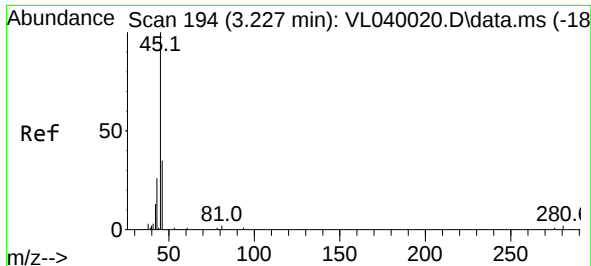
Tgt Ion: 41 Resp: 153258
 Ion Ratio Lower Upper
 41 100
 42 69.0 54.8 82.2



#10
 Heptane
 Concen: 0.083 ppbv
 RT: 7.558 min Scan# 1541
 Delta R.T. -0.006 min
 Lab File: VL040033.D
 Acq: 19 Dec 2022 18:12

Tgt Ion: 43 Resp: 13862
 Ion Ratio Lower Upper
 43 100
 57 58.9 41.2 61.8

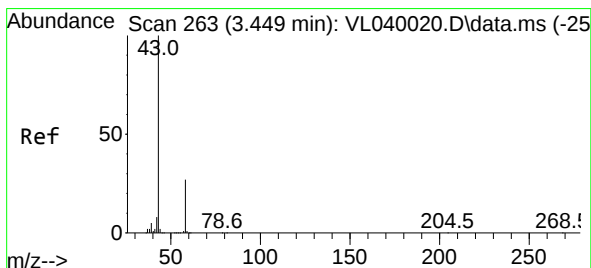
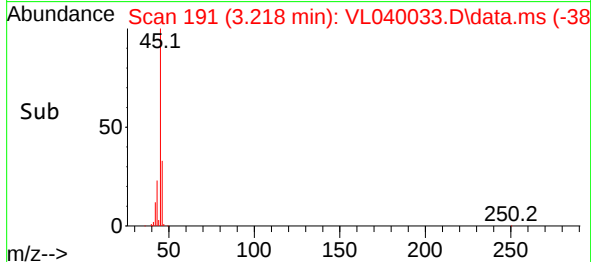
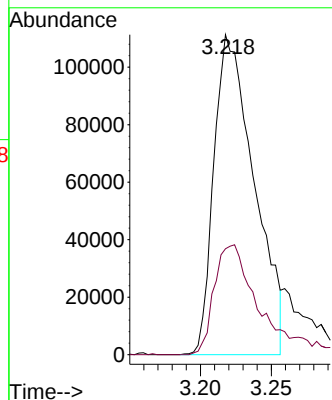
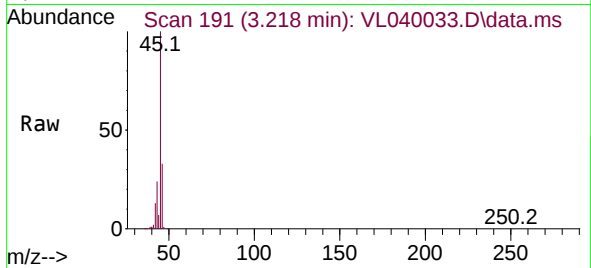




#13
 Ethanol
 Concen: 34.154 ppbv
 RT: 3.218 min Scan# 194
 Delta R.T. -0.010 min
 Lab File: VL040033.D
 Acq: 19 Dec 2022 18:12

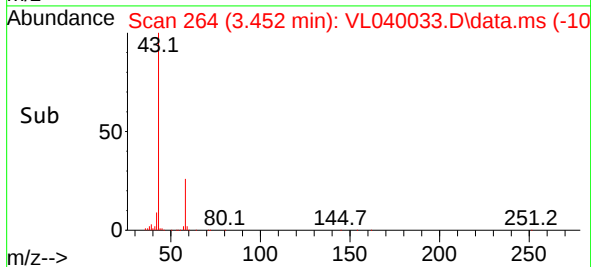
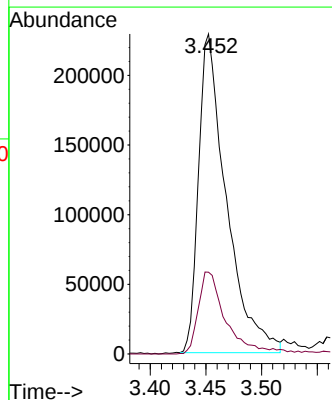
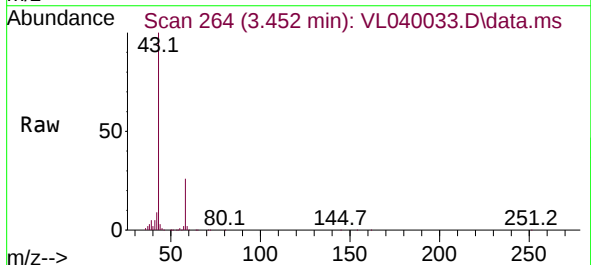
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

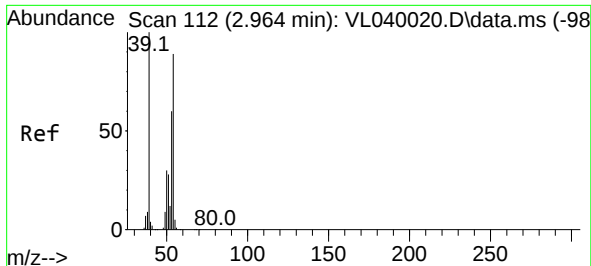
Tgt Ion: 45 Resp: 220004
 Ion Ratio Lower Upper
 45 100
 46 40.3 13.7 54.7



#15
 Acetone
 Concen: 2.354 ppbv
 RT: 3.452 min Scan# 264
 Delta R.T. 0.003 min
 Lab File: VL040033.D
 Acq: 19 Dec 2022 18:12

Tgt Ion: 43 Resp: 398117
 Ion Ratio Lower Upper
 43 100
 58 25.7 21.8 32.8





#16

1,3-Butadiene

Concen: 0.050 ppbv

RT: 2.948 min Scan# 1

Delta R.T. -0.016 min

Lab File: VL040033.D

Acq: 19 Dec 2022 18:12

Instrument :

MSVOA_L

ClientSampleId :

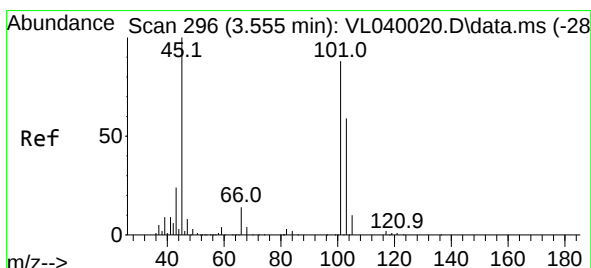
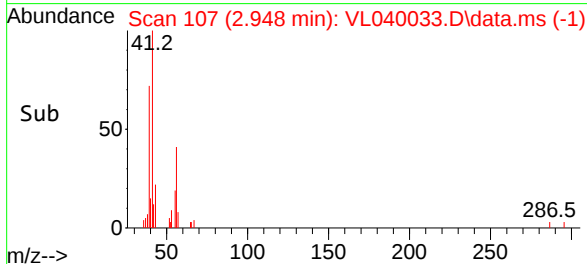
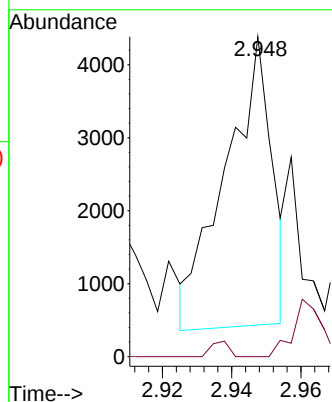
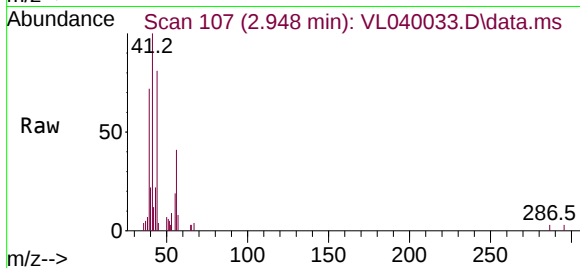
IA1DL

Tgt Ion: 39 Resp: 3675

Ion Ratio Lower Upper

39 100

54 25.6 68.3 102.5#



#19

Isopropyl Alcohol

Concen: 0.953 ppbv

RT: 3.568 min Scan# 300

Delta R.T. 0.013 min

Lab File: VL040033.D

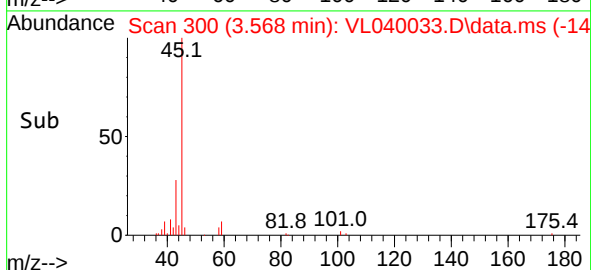
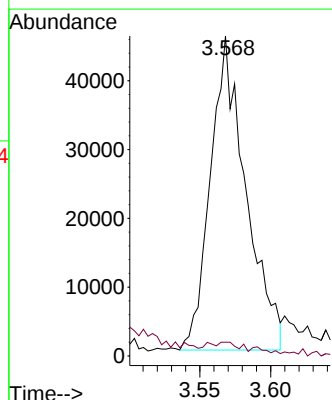
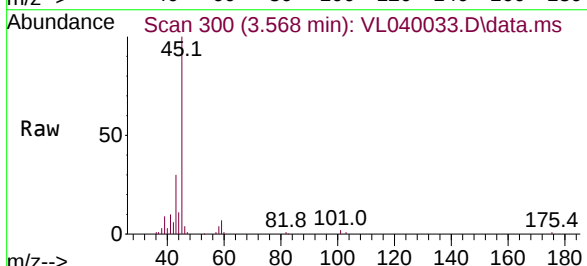
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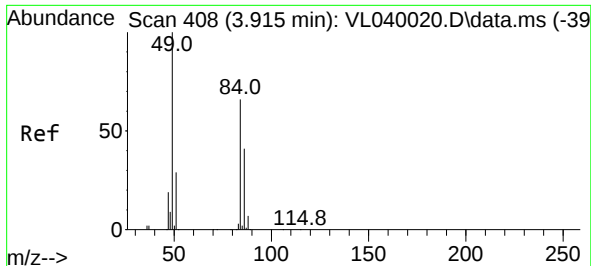
Tgt Ion: 45 Resp: 79380

Ion Ratio Lower Upper

45 100

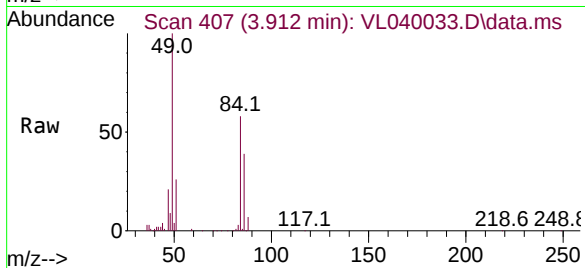
58 5.2 1.7 2.5#





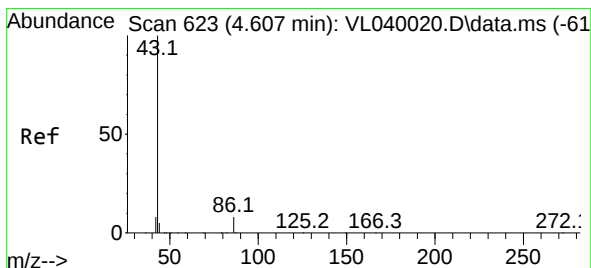
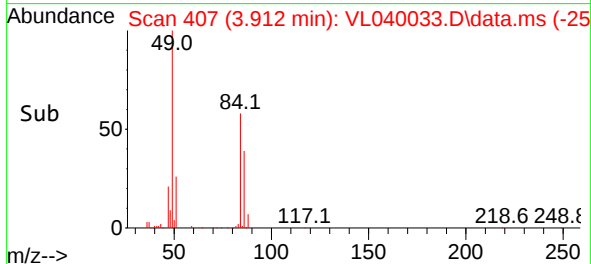
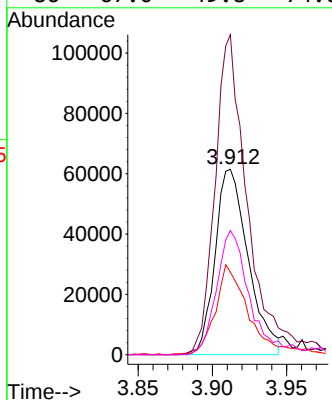
#20
Methylene Chloride
Concen: 1.331 ppbv
RT: 3.912 min Scan# 408
Delta R.T. -0.003 min
Lab File: VL040033.D
Acq: 19 Dec 2022 18:12

Instrument :
MSVOA_1
ClientSampleId :
IA1DL



Tgt Ion: 84 Resp: 95659

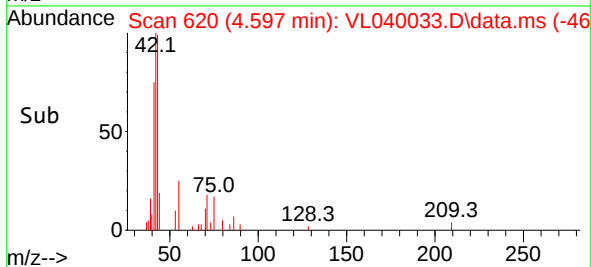
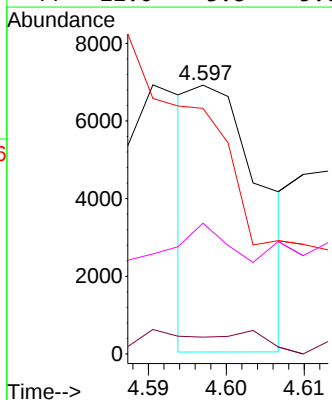
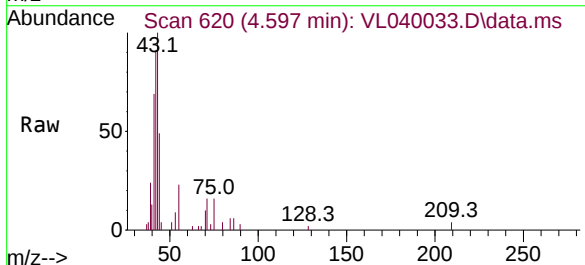
Ion	Ratio	Lower	Upper
84	100		
49	172.6	120.5	180.7
51	44.0	35.2	52.8
86	67.0	49.8	74.6

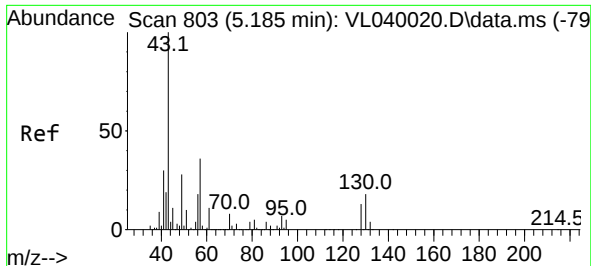


#23
Vinyl Acetate
Concen: 0.079 ppbv
RT: 4.597 min Scan# 620
Delta R.T. -0.010 min
Lab File: VL040033.D
Acq: 19 Dec 2022 18:12

Tgt Ion: 43 Resp: 4232

Ion	Ratio	Lower	Upper
43	100		
86	9.2	5.3	7.9#
42	123.9	7.4	11.0#
44	22.0	3.8	5.6#



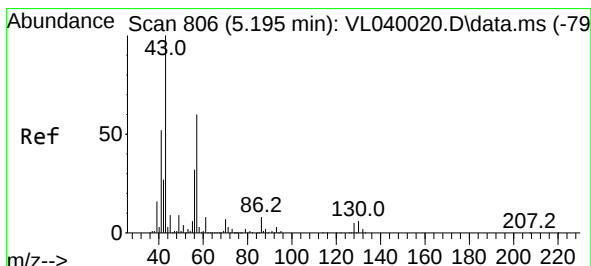
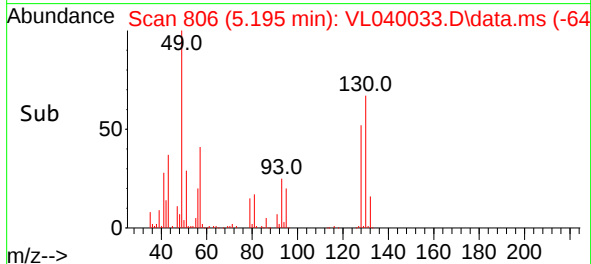
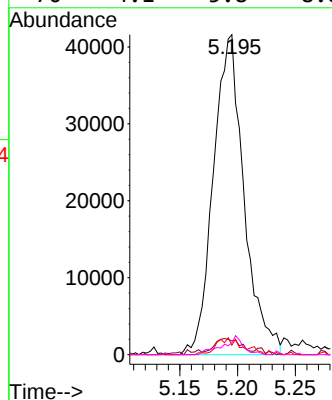
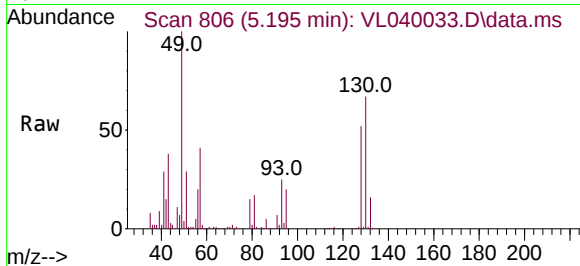


#25
Ethyl Acetate
Concen: 0.262 ppbv
RT: 5.195 min Scan# 803
Delta R.T. 0.010 min
Lab File: VL040033.D
Acq: 19 Dec 2022 18:12

Instrument :
MSVOA_L
ClientSampleId :
IA1DL

Tgt Ion: 43 Resp: 76800

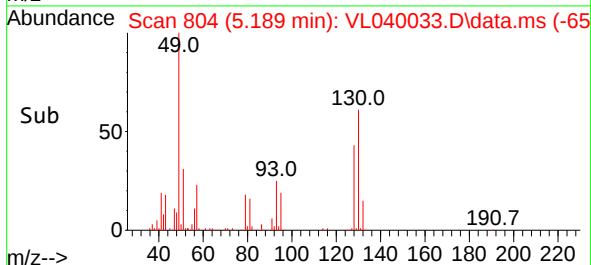
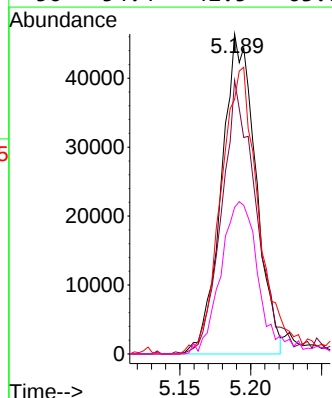
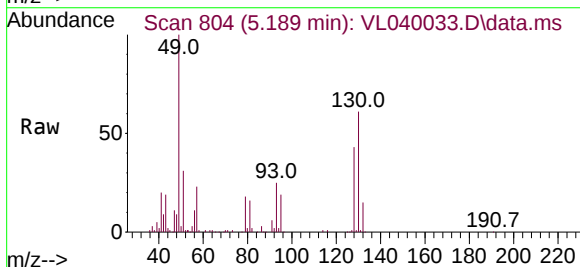
Ion	Ratio	Lower	Upper
43	100		
45	6.3	8.6	12.8#
61	4.6	8.5	12.7#
70	4.1	5.8	8.8#

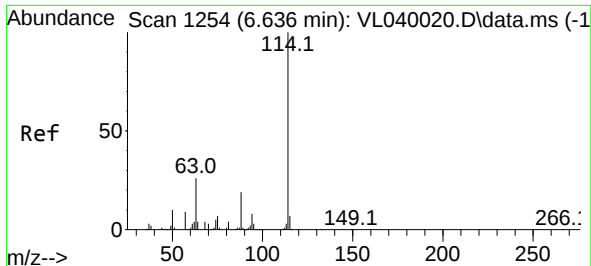


#26
Hexane
Concen: 0.633 ppbv
RT: 5.189 min Scan# 804
Delta R.T. -0.006 min
Lab File: VL040033.D
Acq: 19 Dec 2022 18:12

Tgt Ion: 57 Resp: 77947

Ion	Ratio	Lower	Upper
57	100		
41	89.0	72.1	108.1
43	103.2	192.1	288.1#
56	54.4	42.5	63.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.629 min Scan# 1125

Delta R.T. -0.006 min

Lab File: VL040033.D

Acq: 19 Dec 2022 18:12

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

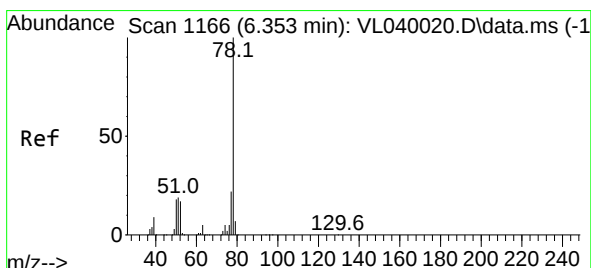
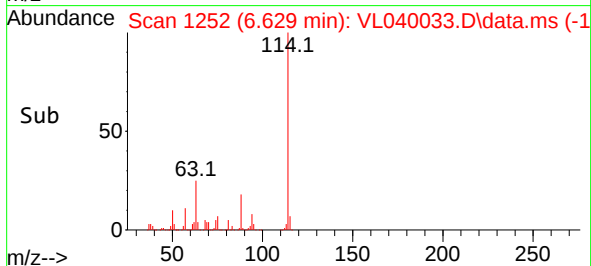
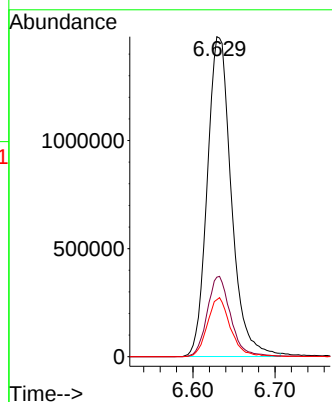
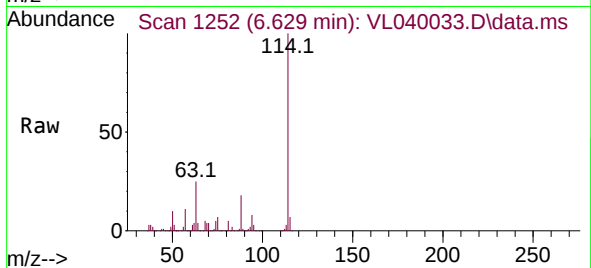
Tgt Ion:114 Resp: 3012313

Ion Ratio Lower Upper

114 100

63 24.7 20.2 30.2

88 17.8 14.6 21.8



#36

Benzene

Concen: 0.033 ppbv

RT: 6.340 min Scan# 1162

Delta R.T. -0.013 min

Lab File: VL040033.D

Acq: 19 Dec 2022 18:12

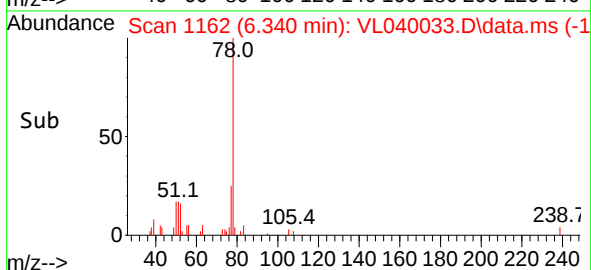
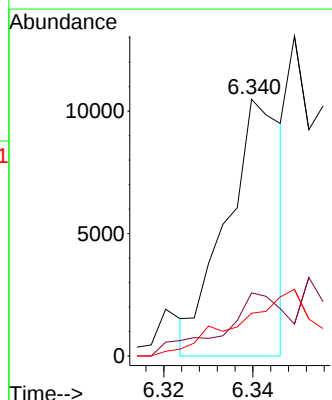
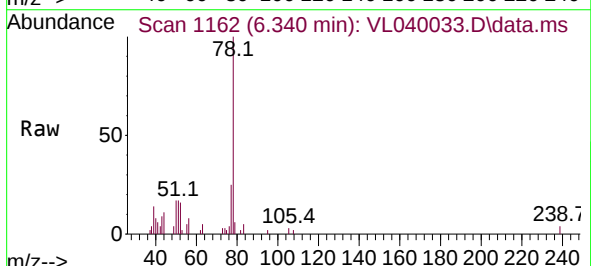
Tgt Ion: 78 Resp: 8987

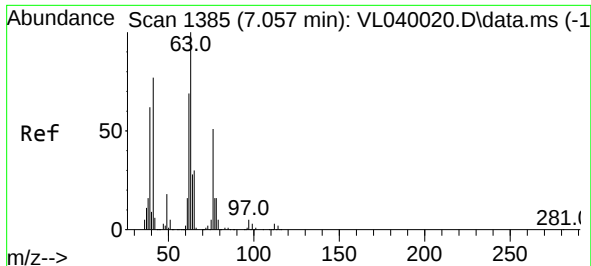
Ion Ratio Lower Upper

78 100

77 21.7 17.5 26.3

50 16.4 14.2 21.2





#39

1,2-Dichloropropane

Concen: 7.307 ppbv

RT: 6.632 min Scan# 11

Delta R.T. -0.424 min

Lab File: VL040033.D

Acq: 19 Dec 2022 18:12

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

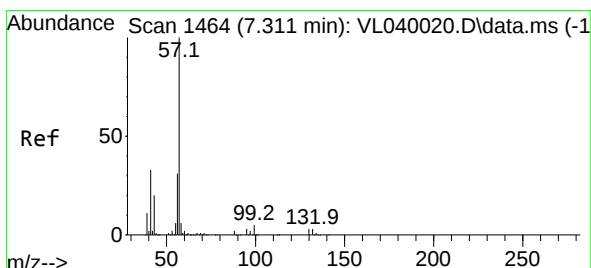
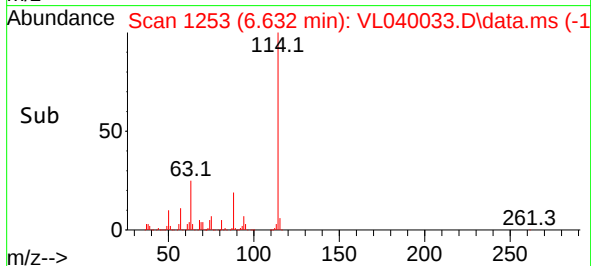
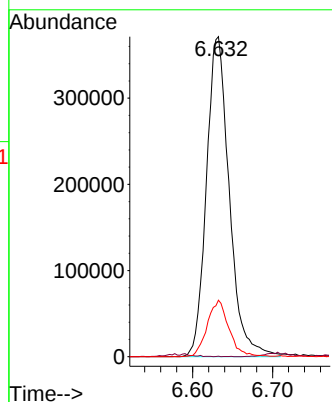
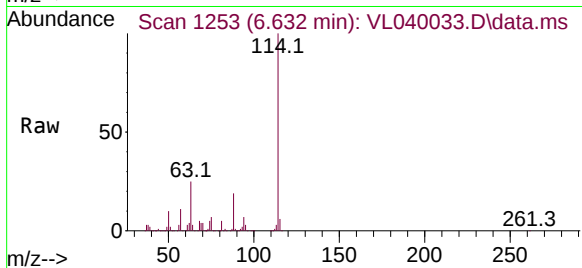
Tgt Ion: 63 Resp: 736813

Ion Ratio Lower Upper

63 100

41 0.0 61.4 92.0#

62 17.7 55.4 83.2#



#44

2,2,4-Trimethylpentane

Concen: 0.036 ppbv

RT: 7.301 min Scan# 1461

Delta R.T. -0.010 min

Lab File: VL040033.D

Acq: 19 Dec 2022 18:12

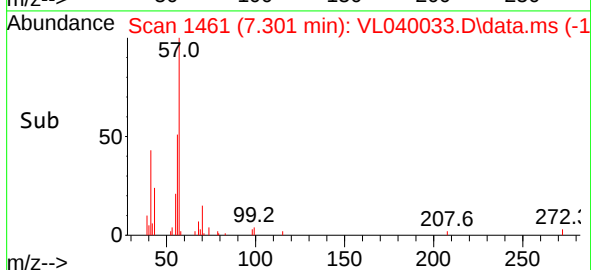
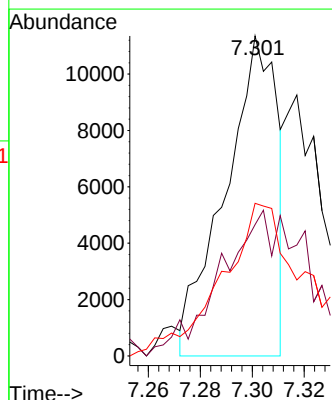
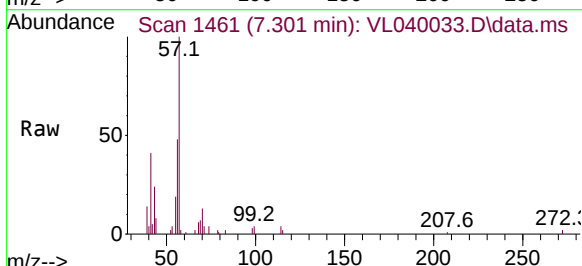
Tgt Ion: 57 Resp: 15800

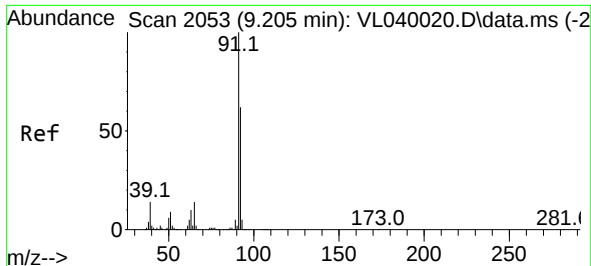
Ion Ratio Lower Upper

57 100

41 80.4 26.2 39.4#

56 78.3 25.1 37.7#

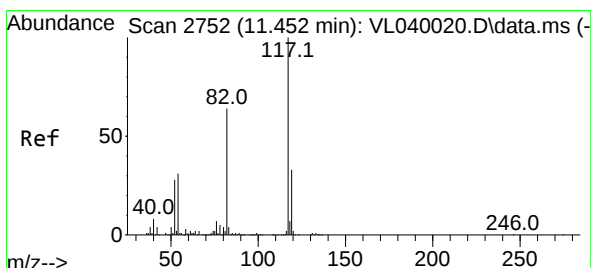
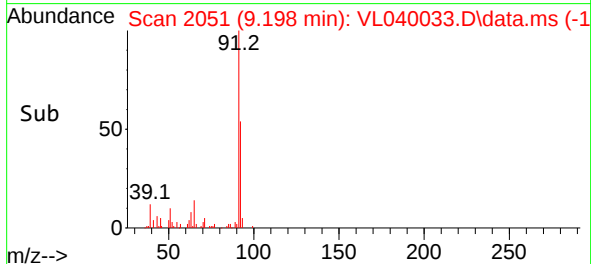
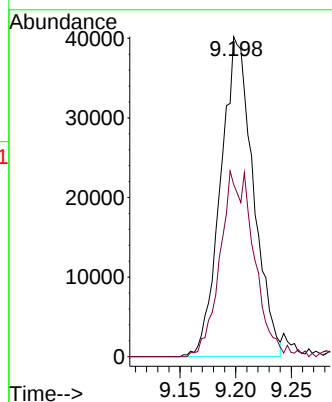
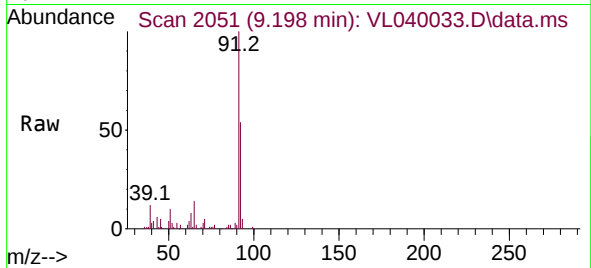




#53
Toluene
Concen: 0.275 ppbv
RT: 9.198 min Scan# 2051
Delta R.T. -0.006 min
Lab File: VL040033.D
Acq: 19 Dec 2022 18:12

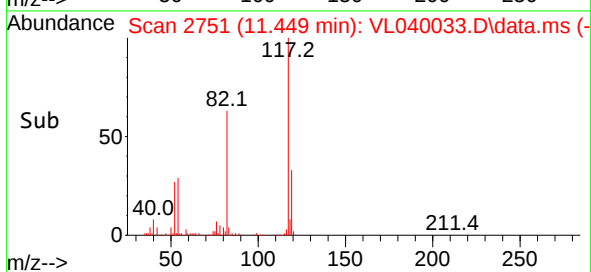
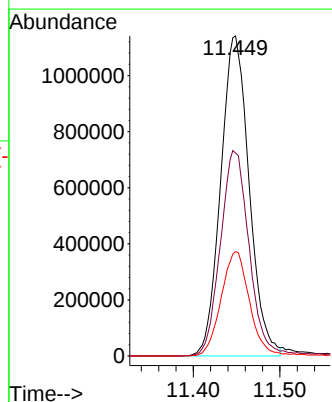
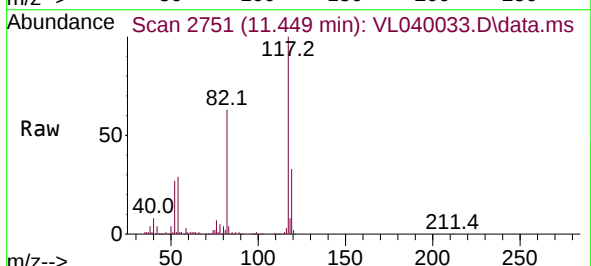
Instrument :
MSVOA_L
ClientSampleId :
IA1DL

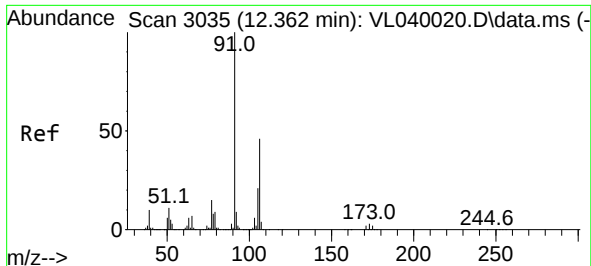
Tgt Ion: 91 Resp: 81993
Ion Ratio Lower Upper
91 100
92 60.8 48.7 73.1



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.449 min Scan# 2751
Delta R.T. -0.003 min
Lab File: VL040033.D
Acq: 19 Dec 2022 18:12

Tgt Ion: 117 Resp: 2602650
Ion Ratio Lower Upper
117 100
82 66.7 51.2 76.8
119 33.1 23.2 34.8





#59

m/p-Xylene

Concen: 0.034 ppbv

RT: 12.359 min Scan# 3035

Delta R.T. -0.003 min

Lab File: VL040033.D

Acq: 19 Dec 2022 18:12

Instrument :

MSVOA_L

ClientSampleId :

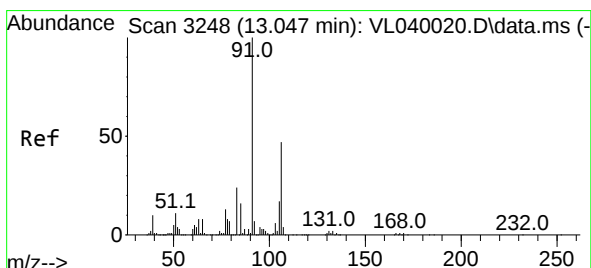
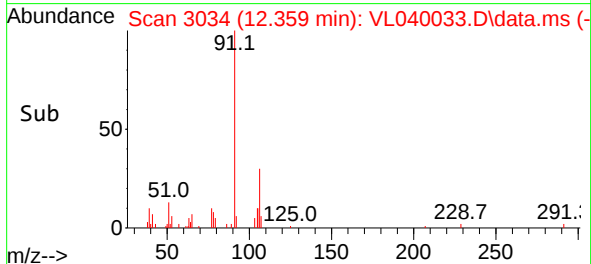
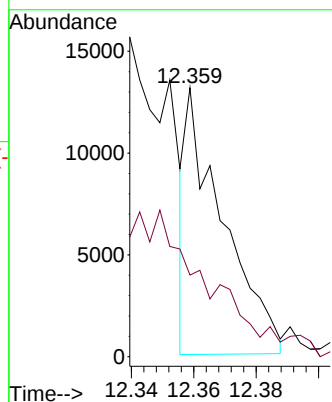
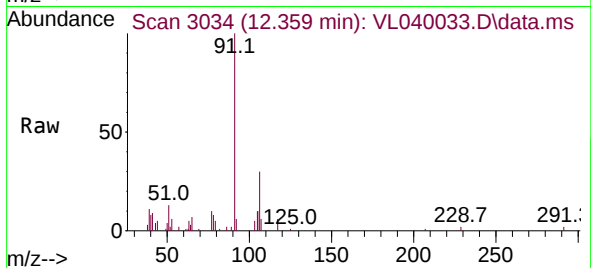
IA1DL

Tgt Ion: 91 Resp: 10833

Ion Ratio Lower Upper

91 100

106 0.0 35.5 53.3#



#60

o-Xylene

Concen: 0.048 ppbv

RT: 13.040 min Scan# 3246

Delta R.T. -0.006 min

Lab File: VL040033.D

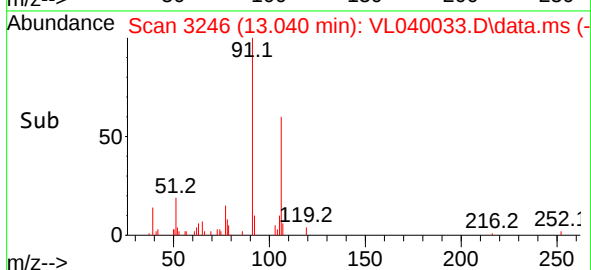
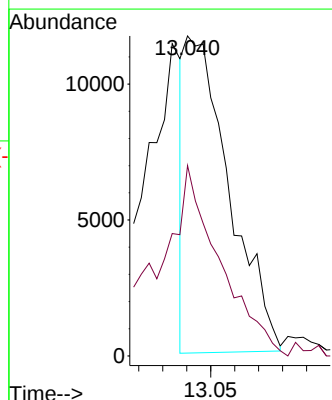
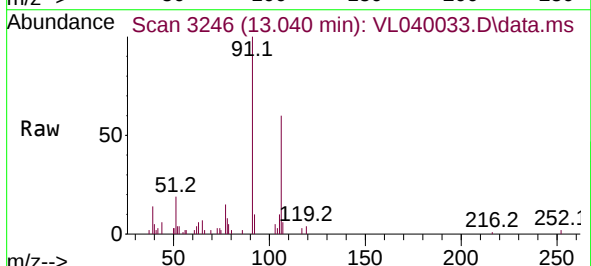
Acq: 19 Dec 2022 18:12

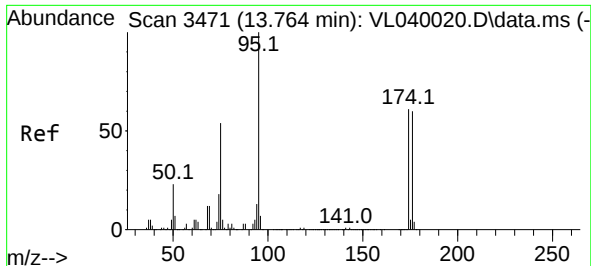
Tgt Ion: 91 Resp: 14852

Ion Ratio Lower Upper

91 100

106 87.2 22.4 67.0#

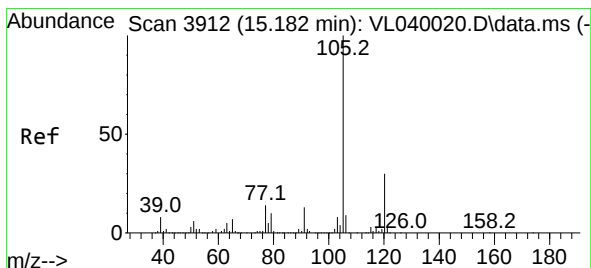
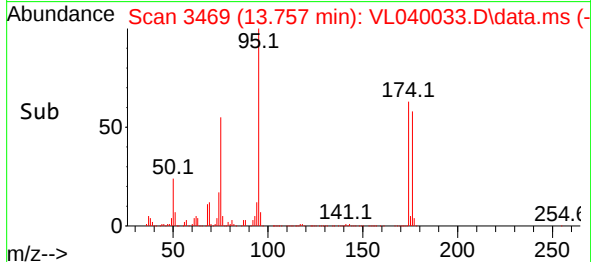
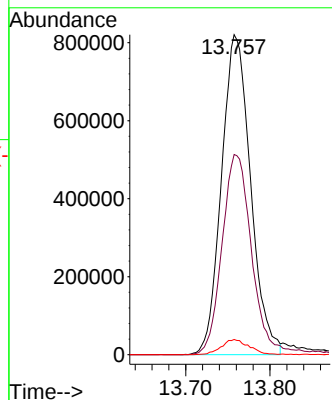
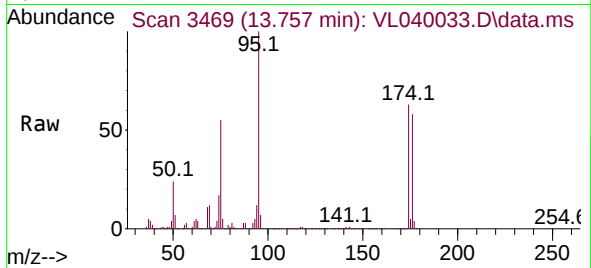




#68
1-Bromo-4-Fluorobenzene
Concen: 9.890 ppbv
RT: 13.757 min Scan# 3471
Delta R.T. -0.006 min
Lab File: VL040033.D
Acq: 19 Dec 2022 18:12

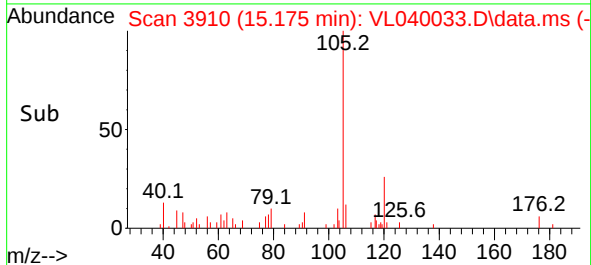
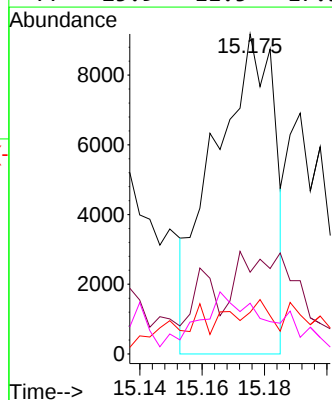
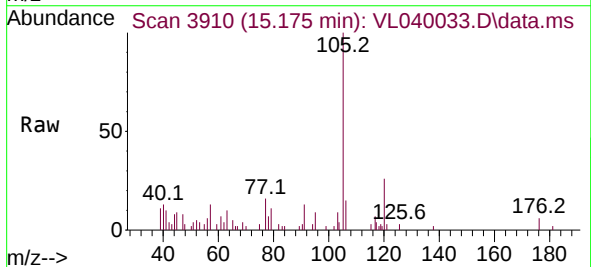
Instrument :
MSVOA_L
ClientSampleId :
IA1DL

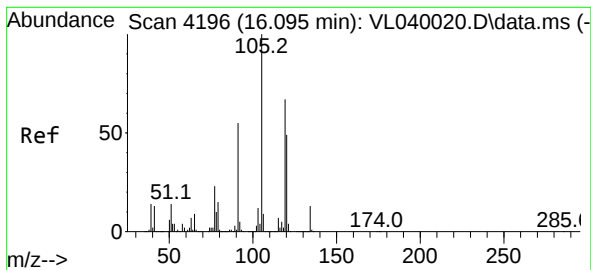
Tgt Ion: 95 Resp: 1966174
Ion Ratio Lower Upper
95 100
174 64.6 48.6 73.0
175 4.6 3.4 5.2



#72
4-Ethyltoluene
Concen: 0.036 ppbv
RT: 15.175 min Scan# 3910
Delta R.T. -0.006 min
Lab File: VL040033.D
Acq: 19 Dec 2022 18:12

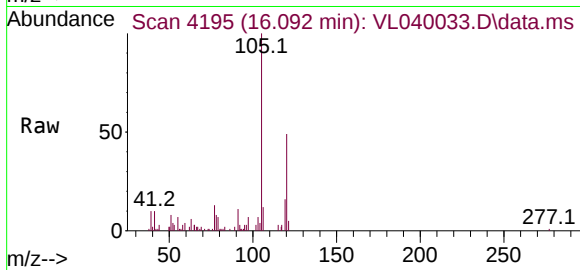
Tgt Ion: 105 Resp: 12316
Ion Ratio Lower Upper
105 100
120 50.8 23.5 35.3#
91 33.4 10.5 15.7#
77 25.9 11.5 17.3#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.094 ppbv
 RT: 16.092 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL040033.D
 Acq: 19 Dec 2022 18:12

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL



Tgt Ion:	105	Resp:	32132
Ion	Ratio	Lower	Upper
105	100		
120	48.6	39.3	58.9
91	11.3	44.2	66.4#
77	12.6	18.8	28.2#

