

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122222\
 Data File : VL040067.D
 Acq On : 22 Dec 2022 14:30
 Operator : SY/MD
 Sample : N6181-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 23 06:28:29 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)

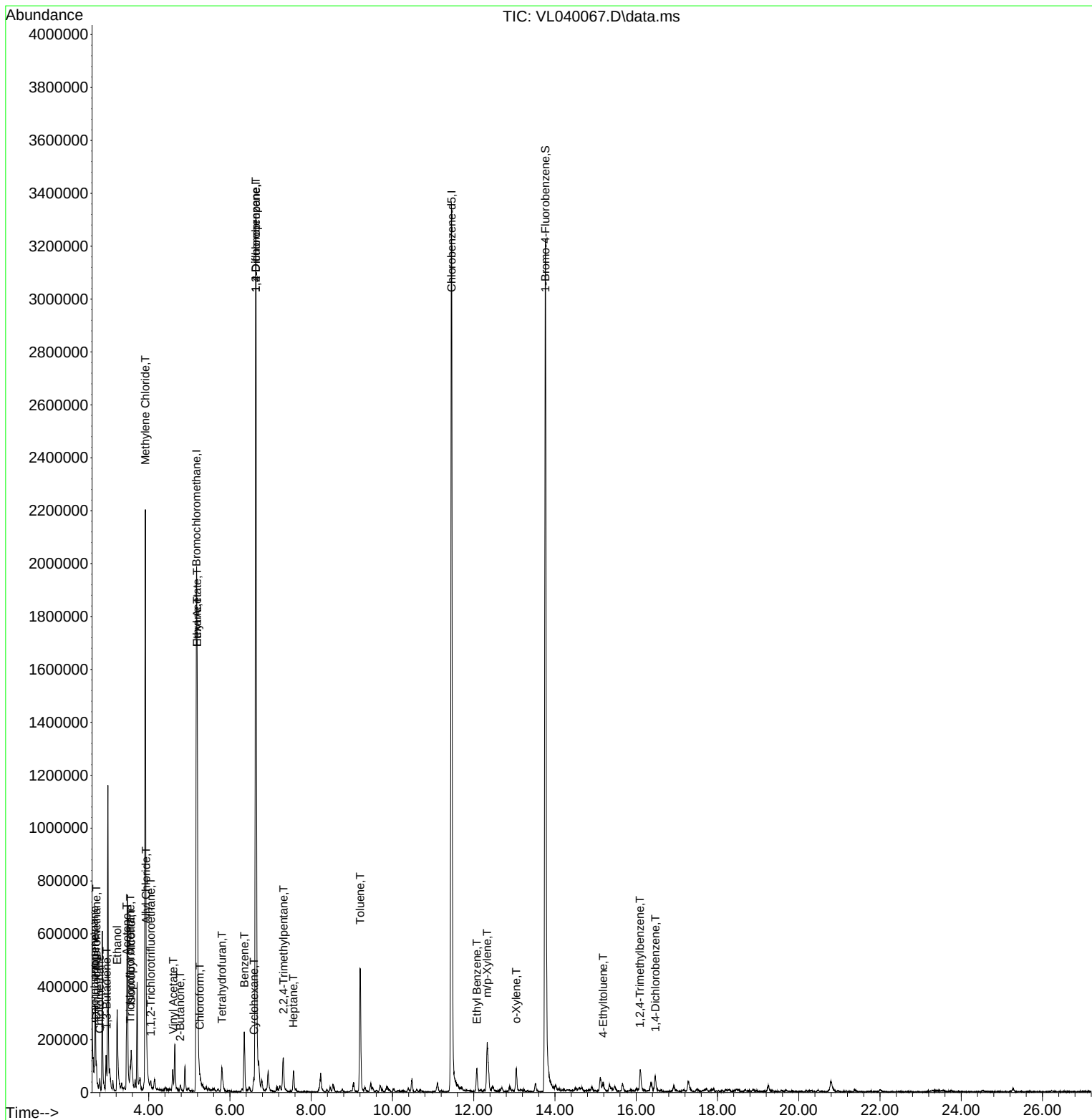
Internal Standards						
1) Bromochloromethane	5.173	49	894779	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	2535437	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.452	117	2161238	10.000	ppbv	0.00

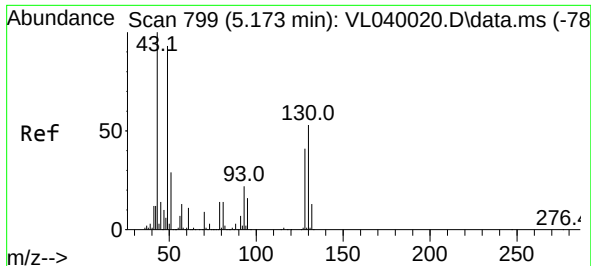
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	1669804	10.114	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.100%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.716	85	46618	0.278	ppbv	91
3) Chlorodifluoromethane	2.658	51	78661	0.596	ppbv #	84
4) Chloromethane	2.796	50	30854	0.373	ppbv	92
9) Propene	2.677	41	106253	1.896	ppbv	93
10) Heptane	7.558	43	29998	0.219	ppbv	95
11) Trichlorofluoromethane	3.546	101	36016	0.198	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.050	101	8490	0.062	ppbv	96
13) Ethanol	3.224	45	344337	65.301	ppbv	94
15) Acetone	3.459	43	178568	1.290	ppbv #	74
16) 1,3-Butadiene	2.967	39	7690	0.128	ppbv #	1
19) Isopropyl Alcohol	3.568	45	162036	2.375	ppbv #	96
20) Methylene Chloride	3.919	84	751917	12.780	ppbv	98
21) Allyl Chloride	3.938	41	6196	0.074	ppbv #	1
23) Vinyl Acetate	4.603	43	6136	0.140	ppbv #	1
25) Ethyl Acetate	5.195	43	299136	1.248	ppbv #	77
26) Hexane	5.195	57	407046	4.040	ppbv #	38
29) Chloroform	5.256	83	5787	0.038	ppbv #	82
30) Cyclohexane	6.587	84	9079	0.102	ppbv #	48
34) 2-Butanone	4.777	43	22923	0.167	ppbv #	88
36) Benzene	6.353	78	177978	0.786	ppbv	98
39) 1,2-Dichloropropane	6.639	63	620098	7.306	ppbv #	22
41) Tetrahydrofuran	5.803	42	6733	0.078	ppbv #	35
44) 2,2,4-Trimethylpentane	7.317	57	102558	0.275	ppbv #	77
53) Toluene	9.208	91	354053	1.412	ppbv	99
58) Ethyl Benzene	12.076	91	72476	0.236	ppbv	91
59) m/p-Xylene	12.333	91	185165	0.692	ppbv	96
60) o-Xylene	13.050	91	35580	0.139	ppbv #	41
72) 4-Ethyltoluene	15.182	105	10923	0.038	ppbv #	54
74) 1,2,4-Trimethylbenzene	16.092	105	22947	0.081	ppbv #	70
76) 1,4-Dichlorobenzene	16.471	146	10181	0.067	ppbv	75

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

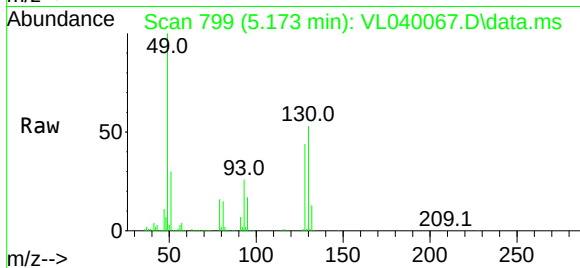
Quant Time: Dec 23 06:28:29 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121922AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Dec 20 04:50:21 2022
Response via : Initial Calibration



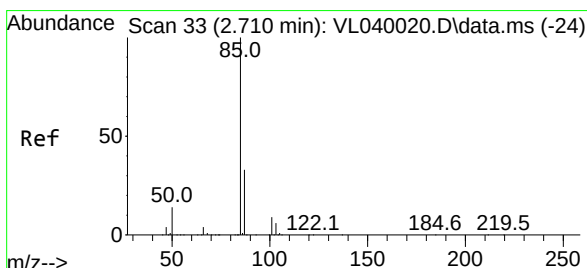
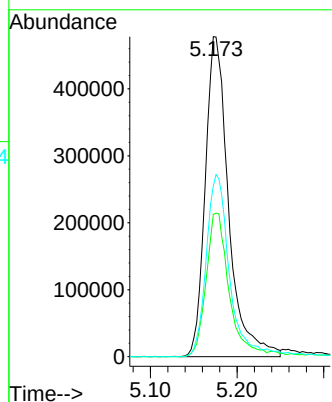
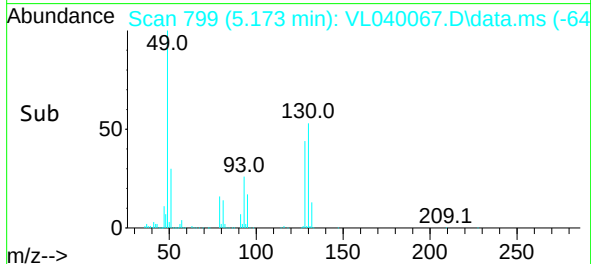


#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.173 min Scan# 799
 Delta R.T. -0.000 min
 Lab File: VL040067.D
 Acq: 22 Dec 2022 14:30

Instrument :
 MSVOA_L
 ClientSampleId :

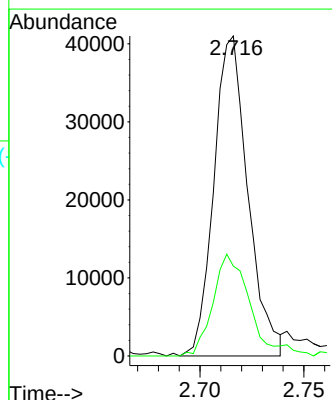
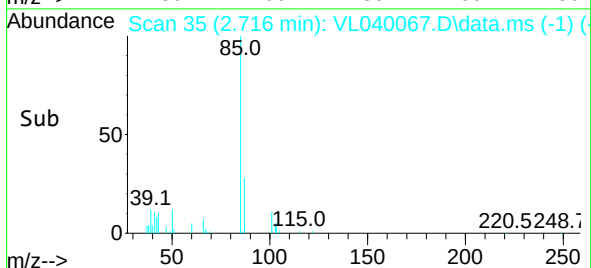
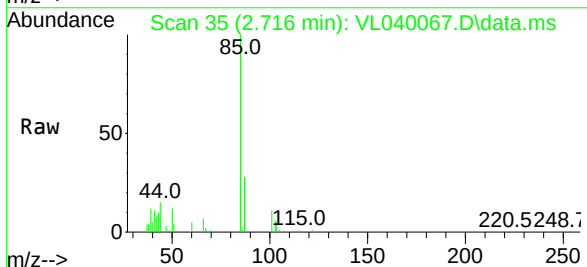


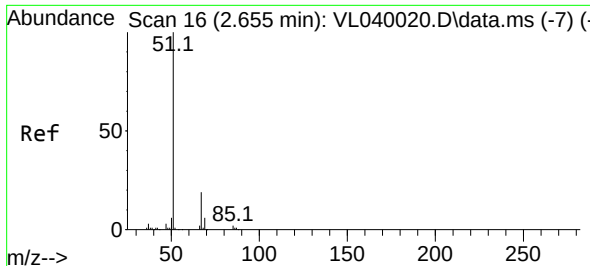
Tgt Ion: 49 Resp: 894779
 Ion Ratio Lower Upper
 49 100
 128 45.8 22.4 67.3
 130 58.4 28.9 86.8



#2
 Dichlorodifluoromethane
 Concen: 0.278 ppbv
 RT: 2.716 min Scan# 35
 Delta R.T. 0.006 min
 Lab File: VL040067.D
 Acq: 22 Dec 2022 14:30

Tgt Ion: 85 Resp: 46618
 Ion Ratio Lower Upper
 85 100
 87 28.1 26.6 40.0

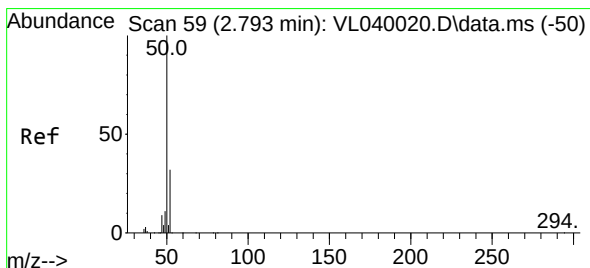
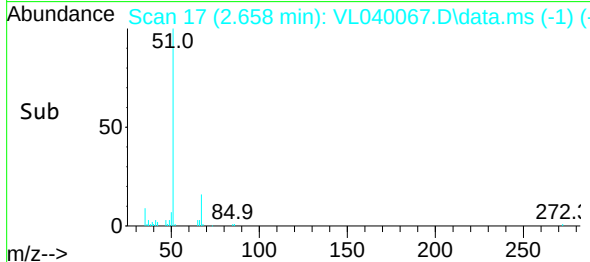
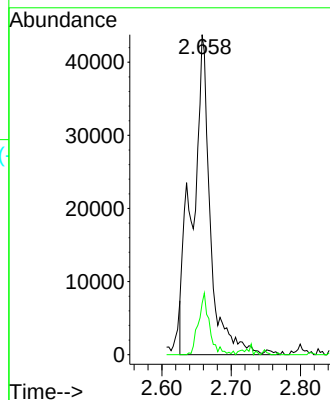
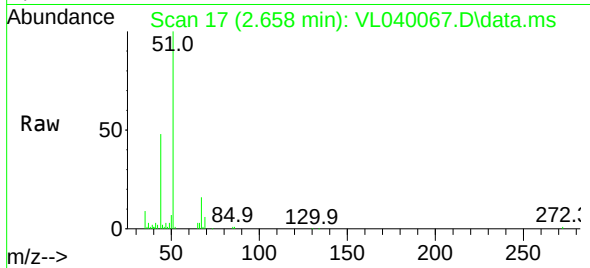




#3
Chlorodifluoromethane
Concen: 0.596 ppbv
RT: 2.658 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL040067.D
Acq: 22 Dec 2022 14:30

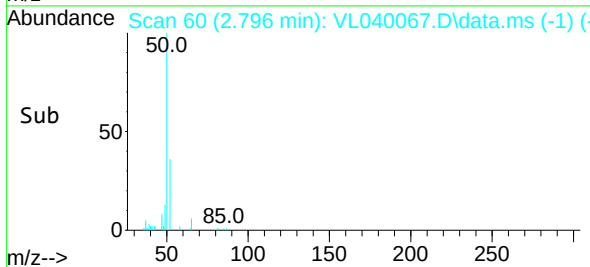
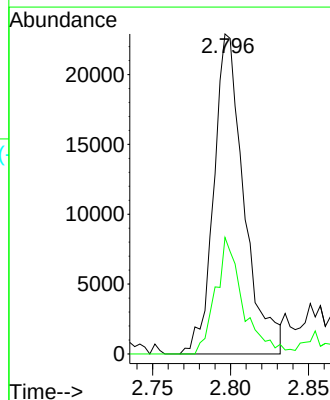
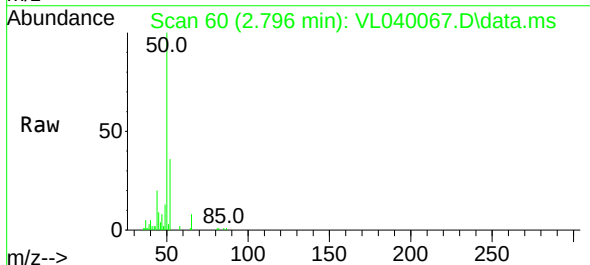
Instrument :
MSVOA_L
ClientSampleId :

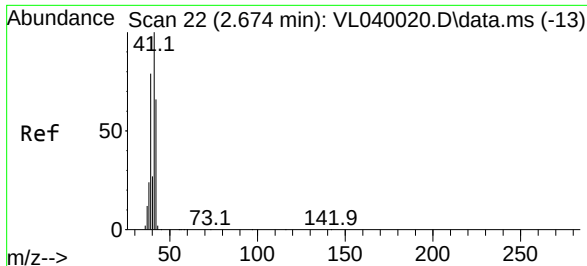
Tgt Ion: 51 Resp: 78661
Ion Ratio Lower Upper
51 100
67 11.8 15.3 22.9#



#4
Chloromethane
Concen: 0.373 ppbv
RT: 2.796 min Scan# 60
Delta R.T. 0.003 min
Lab File: VL040067.D
Acq: 22 Dec 2022 14:30

Tgt Ion: 50 Resp: 30854
Ion Ratio Lower Upper
50 100
52 36.4 25.5 38.3

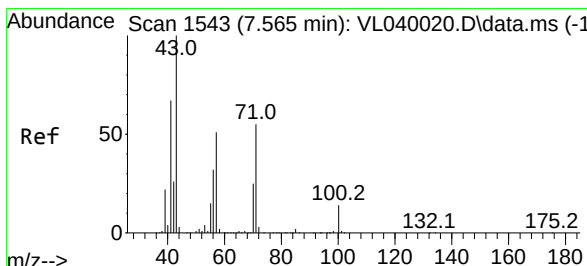
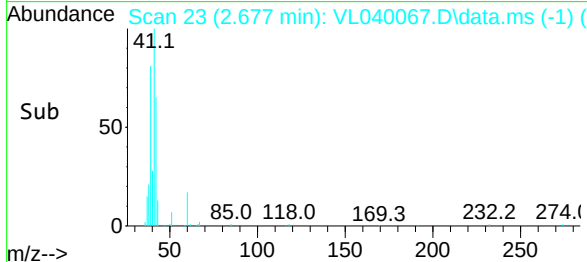
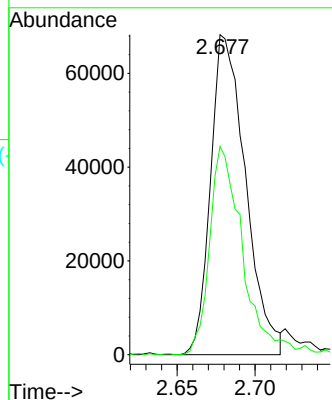
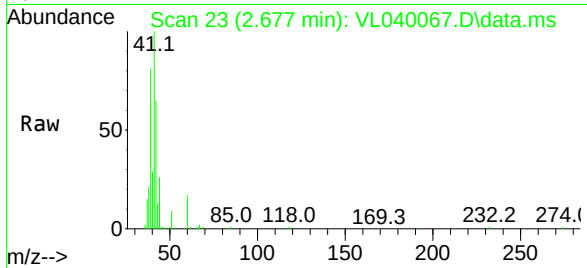




#9
 Propene
 Concen: 1.896 ppbv
 RT: 2.677 min Scan# 21
 Delta R.T. 0.003 min
 Lab File: VL040067.D
 Acq: 22 Dec 2022 14:30

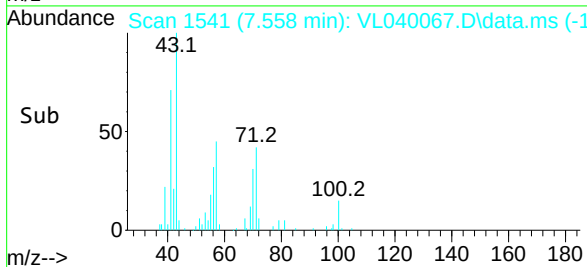
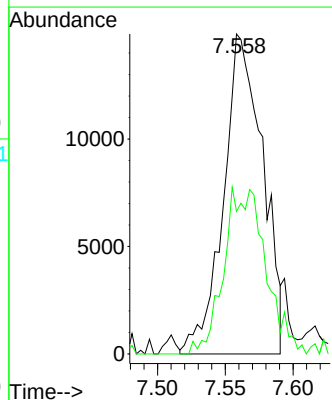
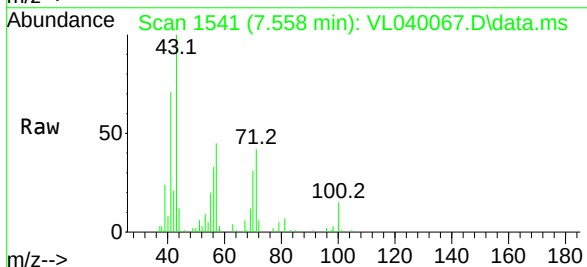
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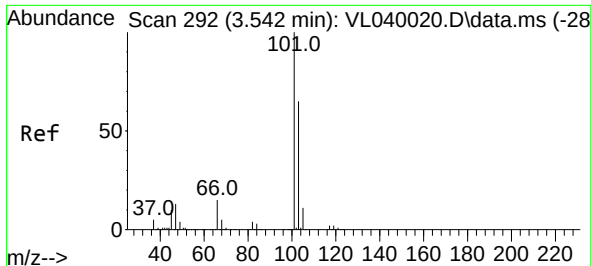
Tgt Ion: 41 Resp: 106253
 Ion Ratio Lower Upper
 41 100
 42 63.0 54.8 82.2



#10
 Heptane
 Concen: 0.219 ppbv
 RT: 7.558 min Scan# 1541
 Delta R.T. -0.006 min
 Lab File: VL040067.D
 Acq: 22 Dec 2022 14:30

Tgt Ion: 43 Resp: 29998
 Ion Ratio Lower Upper
 43 100
 57 55.2 41.2 61.8

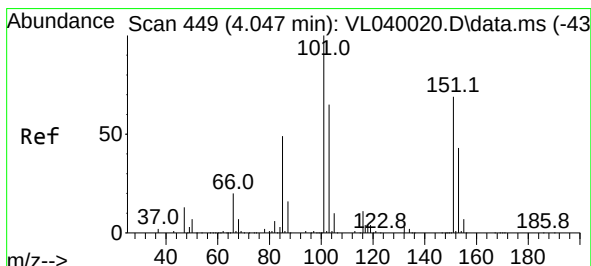
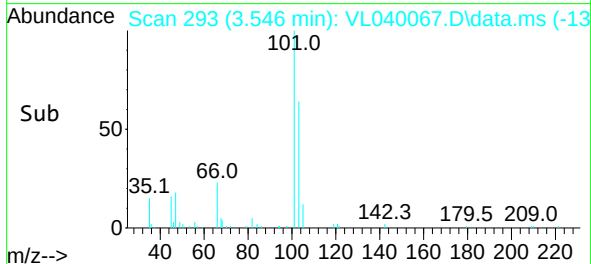
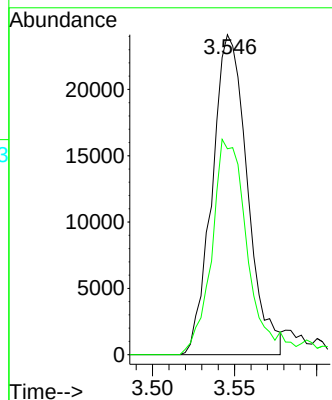
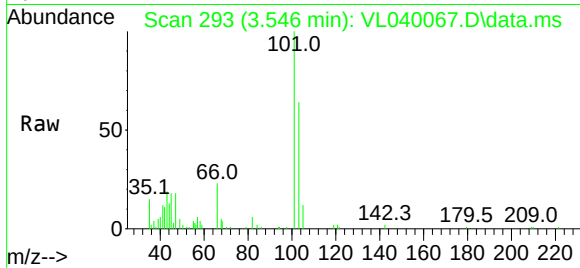




#11
 Trichlorofluoromethane
 Concen: 0.198 ppbv
 RT: 3.546 min Scan# 292
 Delta R.T. 0.003 min
 Lab File: VL040067.D
 Acq: 22 Dec 2022 14:30

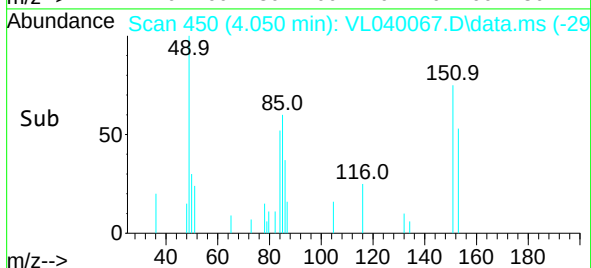
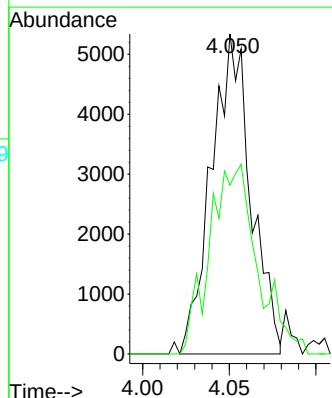
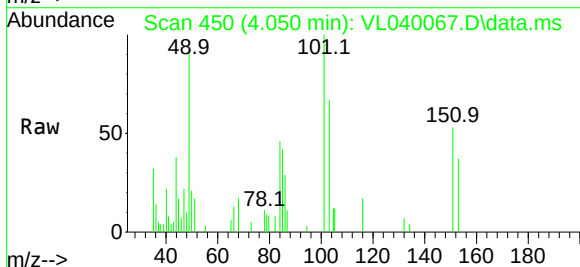
Instrument :
 MSVOA_L
 ClientSampleId :

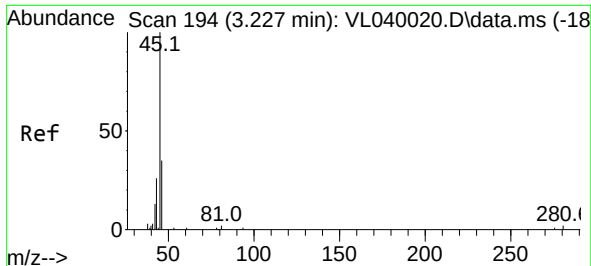
Tgt Ion:101 Resp: 36016
 Ion Ratio Lower Upper
 101 100
 103 64.3 51.7 77.5



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.062 ppbv
 RT: 4.050 min Scan# 450
 Delta R.T. 0.003 min
 Lab File: VL040067.D
 Acq: 22 Dec 2022 14:30

Tgt Ion:101 Resp: 8490
 Ion Ratio Lower Upper
 101 100
 151 71.8 55.0 82.4

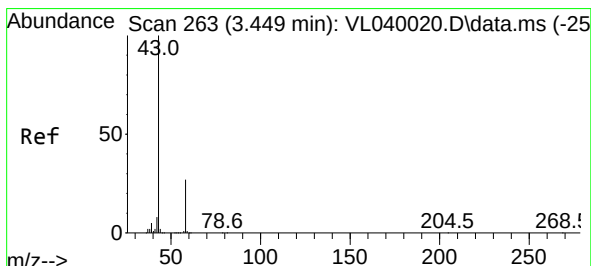
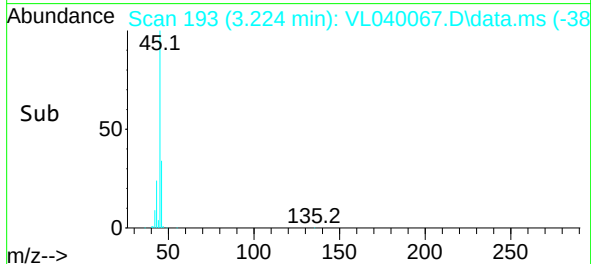
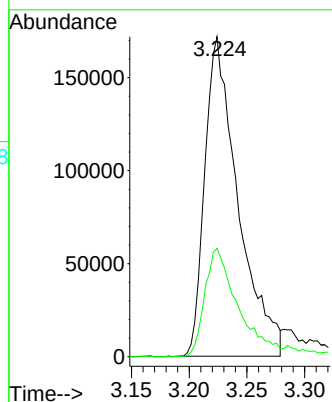
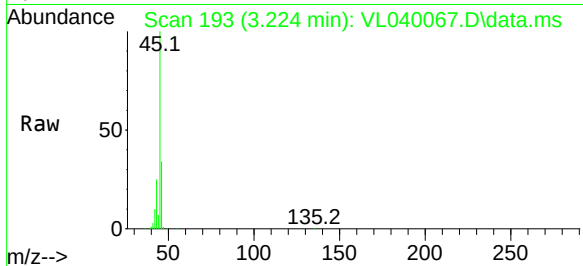




#13
Ethanol
Concen: 65.301 ppbv
RT: 3.224 min Scan# 194
Delta R.T. -0.003 min
Lab File: VL040067.D
Acq: 22 Dec 2022 14:30

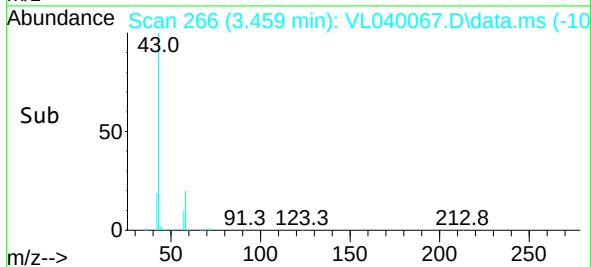
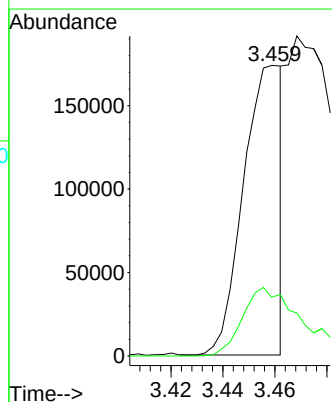
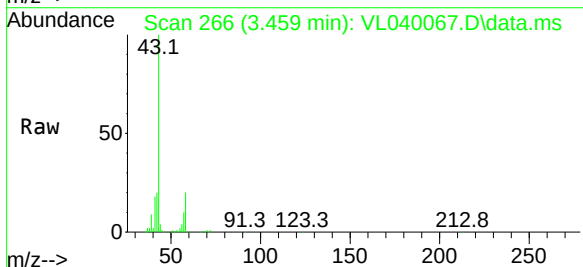
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ClientSampleId :

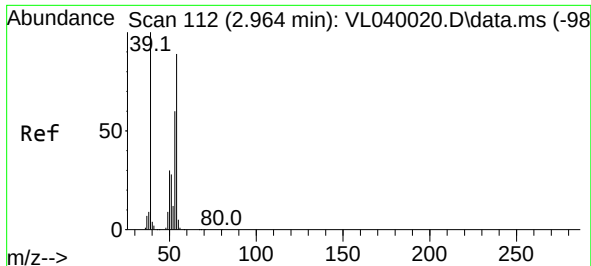
Tgt Ion: 45 Resp: 344337
Ion Ratio Lower Upper
45 100
46 37.7 13.7 54.7



#15
Acetone
Concen: 1.290 ppbv
RT: 3.459 min Scan# 266
Delta R.T. 0.010 min
Lab File: VL040067.D
Acq: 22 Dec 2022 14:30

Tgt Ion: 43 Resp: 178568
Ion Ratio Lower Upper
43 100
58 40.6 21.8 32.8#

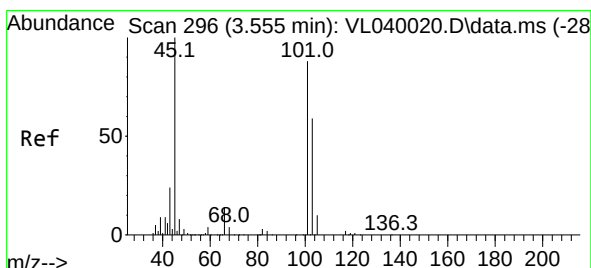
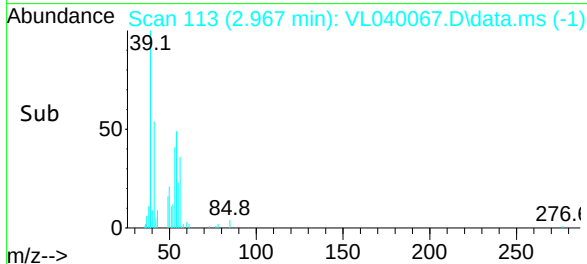
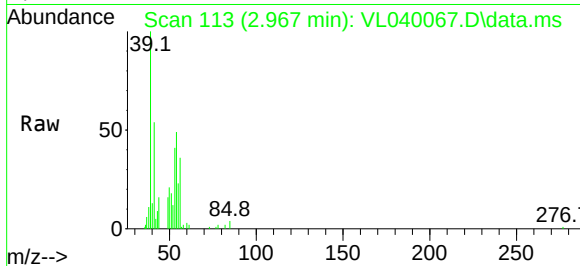




#16
1,3-Butadiene
Concen: 0.128 ppbv
RT: 2.967 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL040067.D
Acq: 22 Dec 2022 14:30

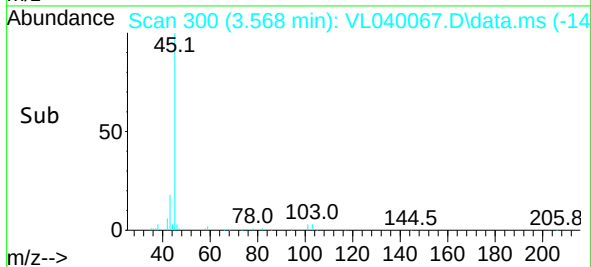
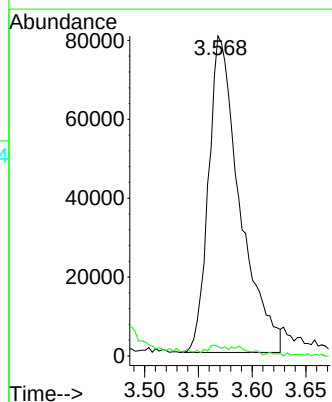
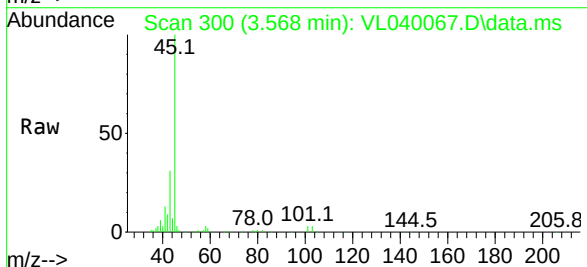
Instrument :
MSVOA_L
ClientSampleId :

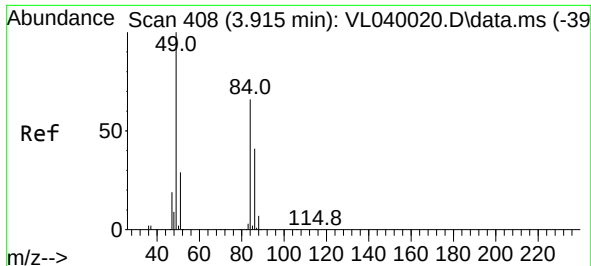
Tgt Ion: 39 Resp: 7690
Ion Ratio Lower Upper
39 100
54 206.9 68.3 102.5#



#19
Isopropyl Alcohol
Concen: 2.375 ppbv
RT: 3.568 min Scan# 300
Delta R.T. 0.013 min
Lab File: VL040067.D
Acq: 22 Dec 2022 14:30

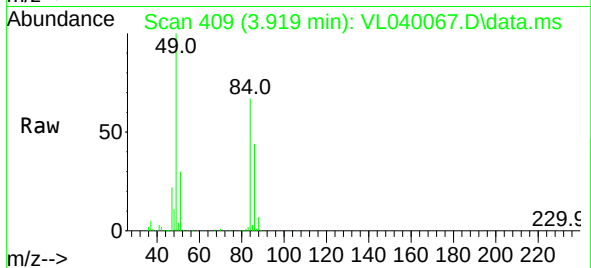
Tgt Ion: 45 Resp: 162036
Ion Ratio Lower Upper
45 100
58 3.4 1.7 2.5#





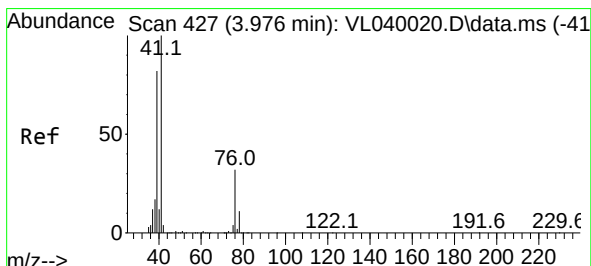
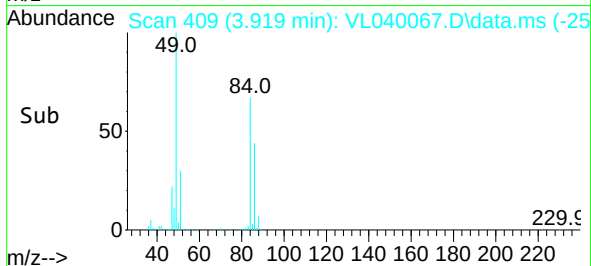
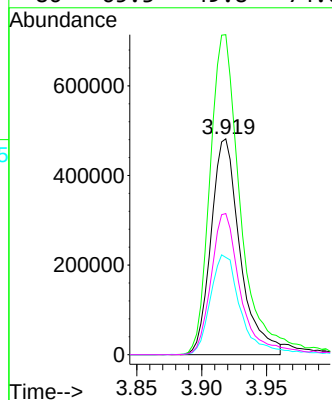
#20
Methylene Chloride
Concen: 12.780 ppbv
RT: 3.919 min Scan# 408
Delta R.T. 0.003 min
Lab File: VL040067.D
Acq: 22 Dec 2022 14:30

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 84 Resp: 751917

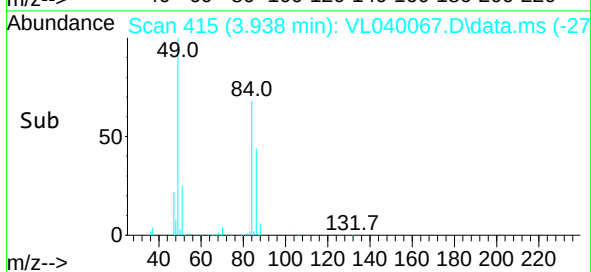
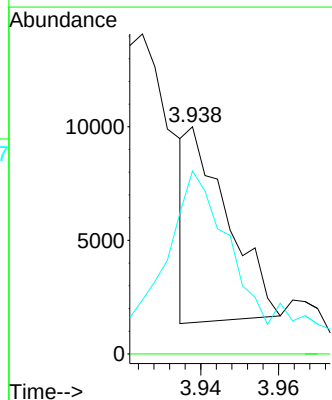
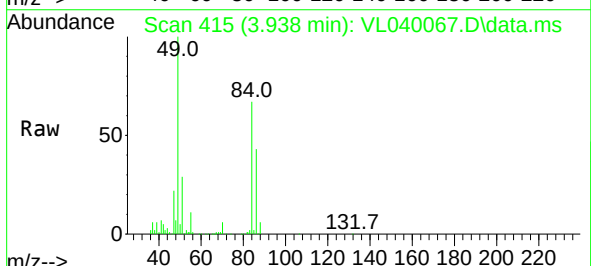
Ion	Ratio	Lower	Upper
84	100		
49	148.1	120.5	180.7
51	45.0	35.2	52.8
86	65.3	49.8	74.6

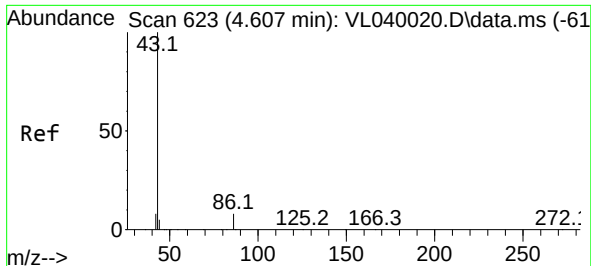


#21
Allyl Chloride
Concen: 0.074 ppbv
RT: 3.938 min Scan# 415
Delta R.T. -0.039 min
Lab File: VL040067.D
Acq: 22 Dec 2022 14:30

Tgt Ion: 41 Resp: 6196

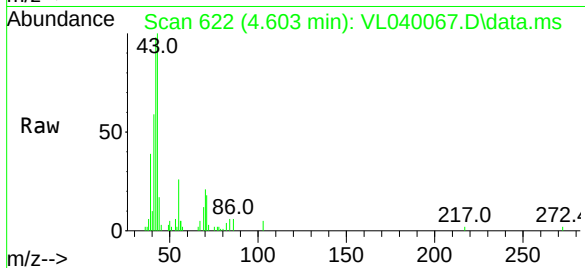
Ion	Ratio	Lower	Upper
41	100		
76	0.0	25.9	38.9#
39	224.8	66.0	99.0#



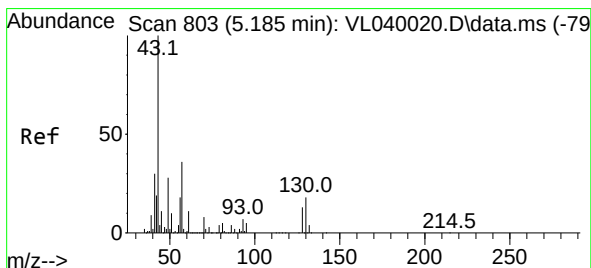
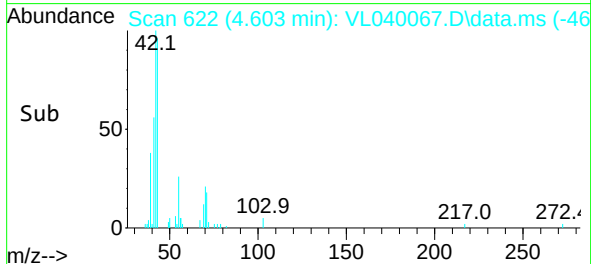
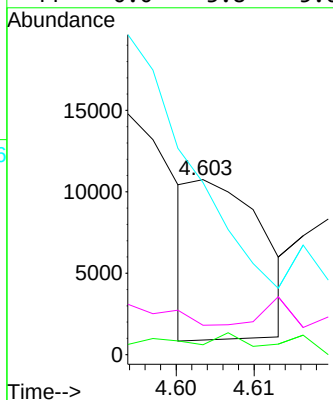


#23
 Vinyl Acetate
 Concen: 0.140 ppbv
 RT: 4.603 min Scan# 61
 Delta R.T. -0.003 min
 Lab File: VL040067.D
 Acq: 22 Dec 2022 14:30

Instrument :
 MSVOA_L
 ClientSampleId :

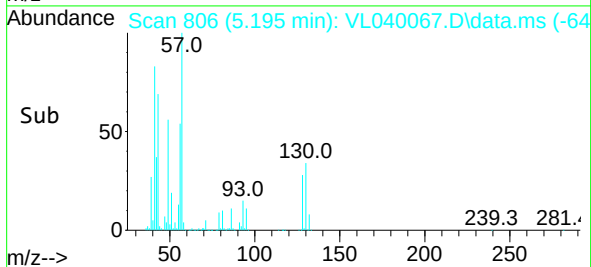
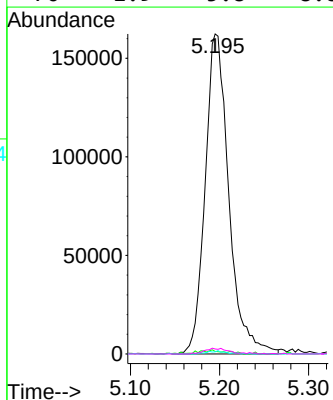
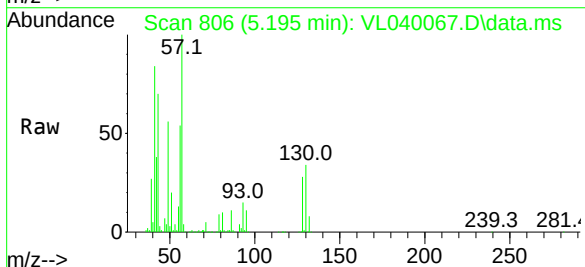


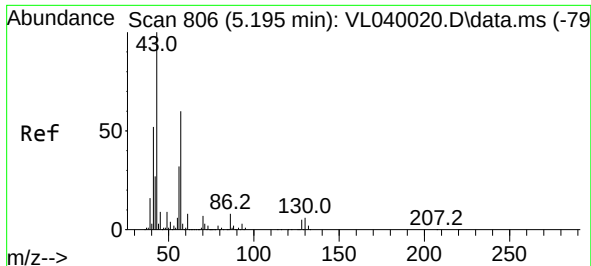
Tgt Ion: 43 Resp: 6136
 Ion Ratio Lower Upper
 43 100
 86 0.0 5.3 7.9#
 42 136.9 7.4 11.0#
 44 0.0 3.8 5.6#



#25
 Ethyl Acetate
 Concen: 1.248 ppbv
 RT: 5.195 min Scan# 806
 Delta R.T. 0.010 min
 Lab File: VL040067.D
 Acq: 22 Dec 2022 14:30

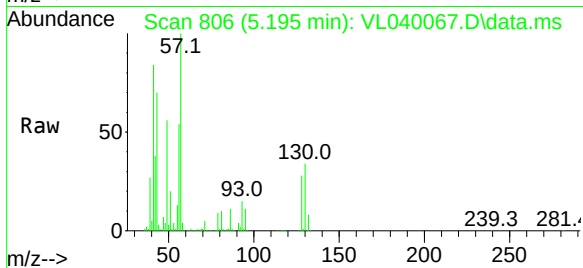
Tgt Ion: 43 Resp: 299136
 Ion Ratio Lower Upper
 43 100
 45 1.6 8.6 12.8#
 61 0.8 8.5 12.7#
 70 1.9 5.8 8.8#



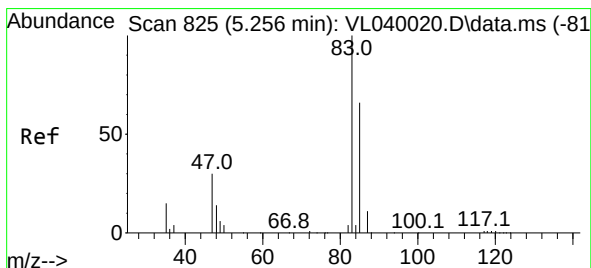
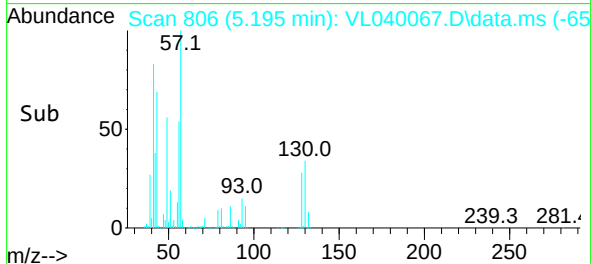
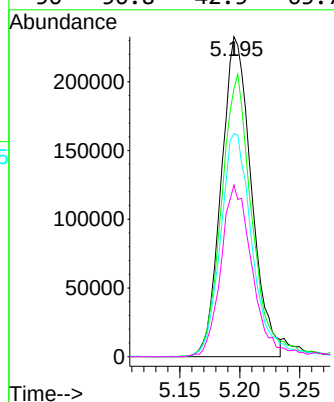


#26
Hexane
Concen: 4.040 ppbv
RT: 5.195 min Scan# 806
Delta R.T. 0.000 min
Lab File: VL040067.D
Acq: 22 Dec 2022 14:30

Instrument :
MSVOA_1
ClientSampleId :

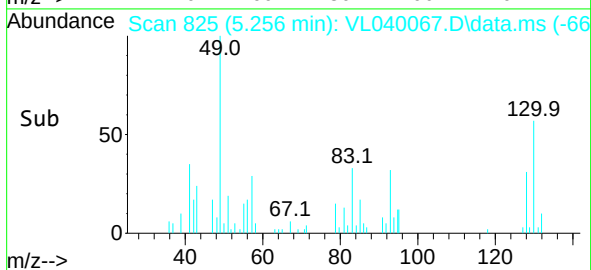
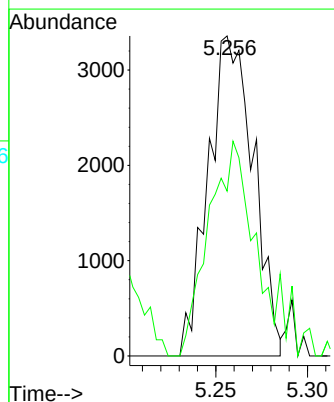
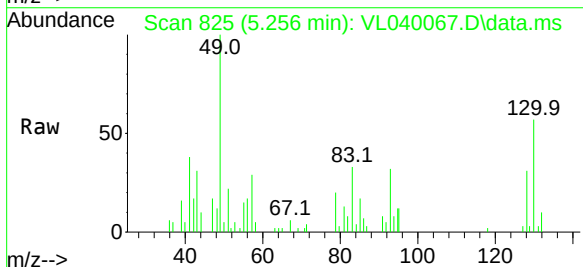


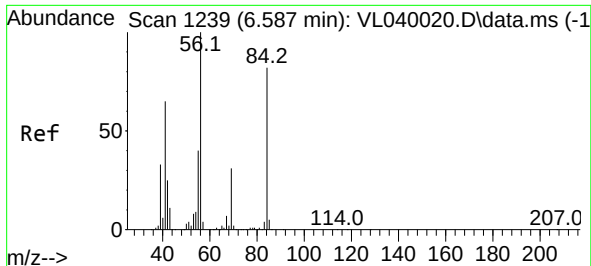
Tgt Ion: 57 Resp: 407046
Ion Ratio Lower Upper
57 100
41 90.5 72.1 108.1
43 74.7 192.1 288.1#
56 56.8 42.5 63.7



#29
Chloroform
Concen: 0.038 ppbv
RT: 5.256 min Scan# 825
Delta R.T. 0.000 min
Lab File: VL040067.D
Acq: 22 Dec 2022 14:30

Tgt Ion: 83 Resp: 5787
Ion Ratio Lower Upper
83 100
85 51.5 52.4 78.6#

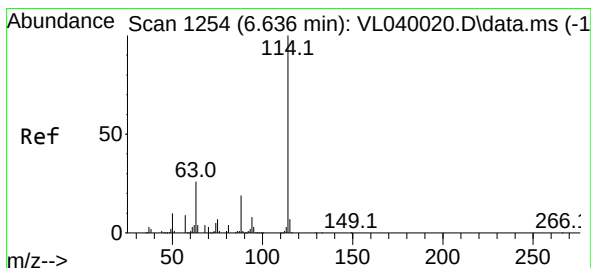
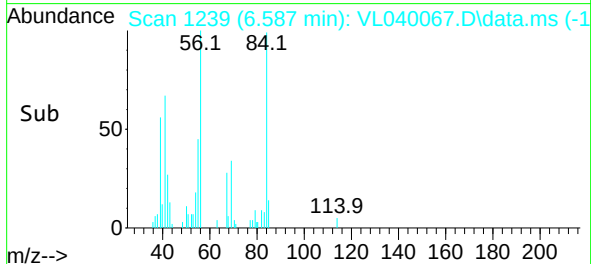
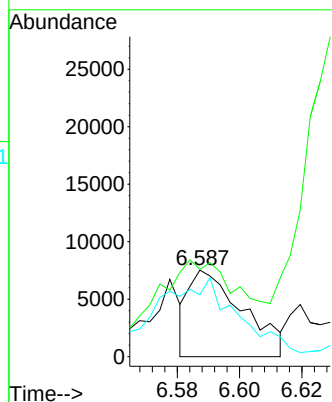
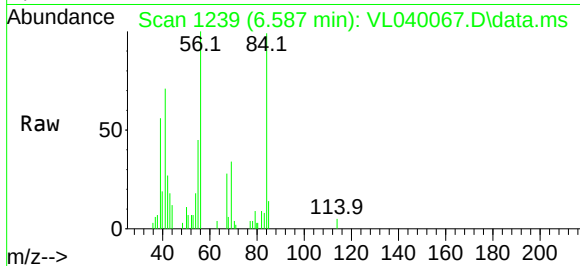




#30
Cyclohexane
Concen: 0.102 ppbv
RT: 6.587 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL040067.D
Acq: 22 Dec 2022 14:30

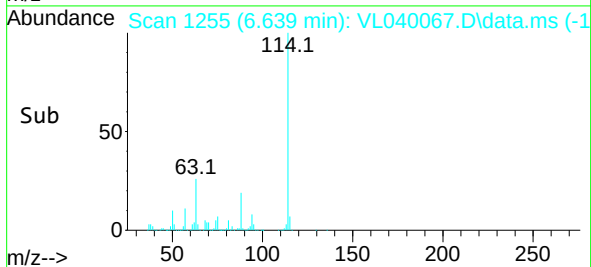
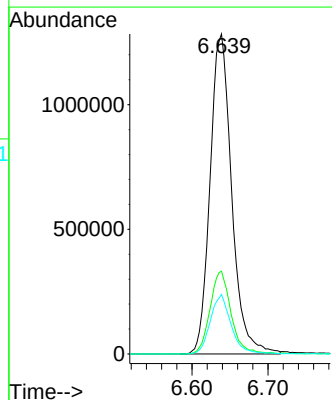
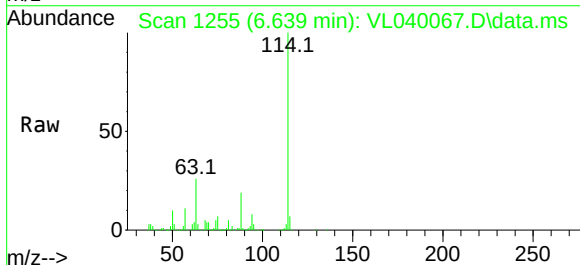
Instrument :
MSVOA_L
ClientSampleId :

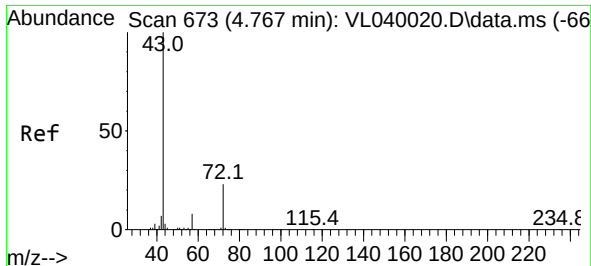
Tgt Ion: 84 Resp: 9079
Ion Ratio Lower Upper
84 100
56 178.7 110.2 165.4#
41 158.5 67.8 101.8#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.639 min Scan# 1255
Delta R.T. 0.003 min
Lab File: VL040067.D
Acq: 22 Dec 2022 14:30

Tgt Ion: 114 Resp: 2535437
Ion Ratio Lower Upper
114 100
63 25.4 20.2 30.2
88 17.9 14.6 21.8

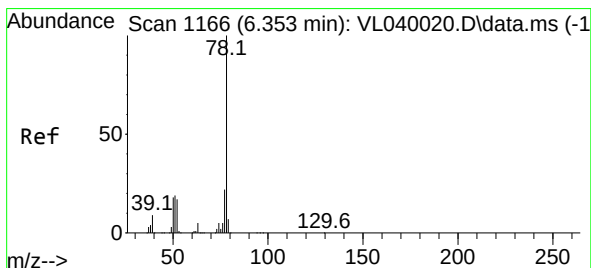
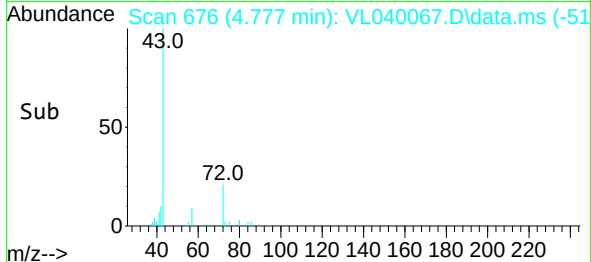
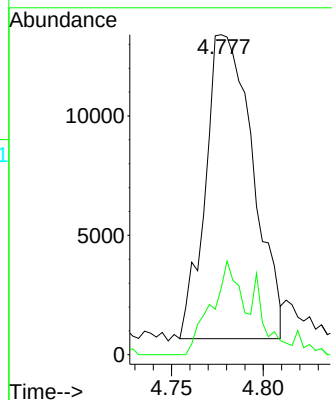
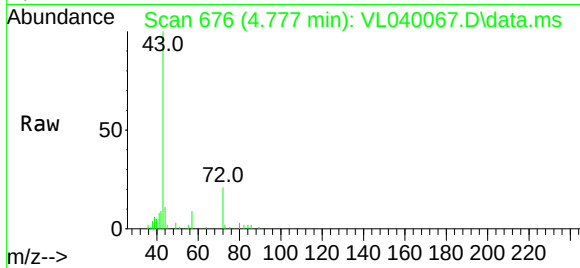




#34
2-Butanone
Concen: 0.167 ppbv
RT: 4.777 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL040067.D
Acq: 22 Dec 2022 14:30

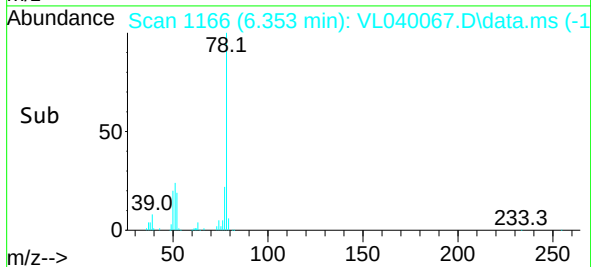
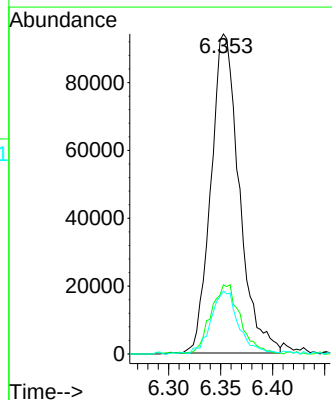
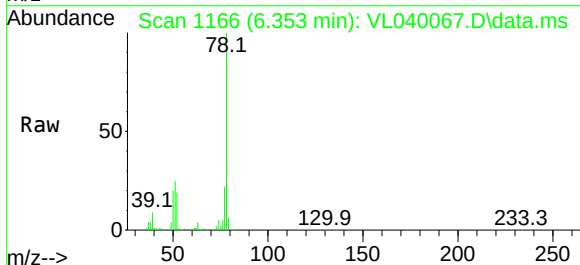
Instrument :
MSVOA_L
ClientSampleId :

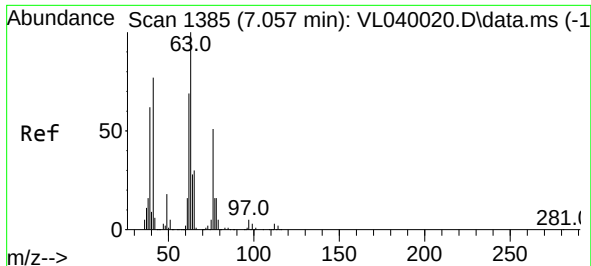
Tgt Ion: 43 Resp: 22923
Ion Ratio Lower Upper
43 100
72 28.5 18.0 27.0#



#36
Benzene
Concen: 0.786 ppbv
RT: 6.353 min Scan# 1166
Delta R.T. 0.000 min
Lab File: VL040067.D
Acq: 22 Dec 2022 14:30

Tgt Ion: 78 Resp: 177978
Ion Ratio Lower Upper
78 100
77 21.3 17.5 26.3
50 19.5 14.2 21.2





#39

1,2-Dichloropropane

Concen: 7.306 ppbv

RT: 6.639 min Scan# 1

Delta R.T. -0.418 min

Lab File: VL040067.D

Acq: 22 Dec 2022 14:30

Instrument :

MSVOA_L

ClientSampleId :

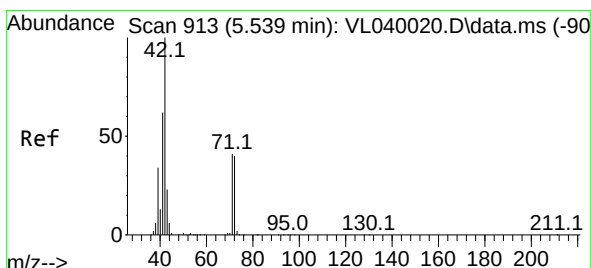
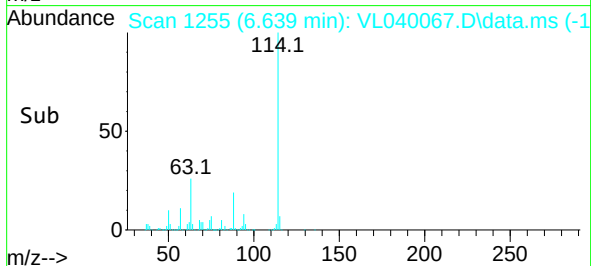
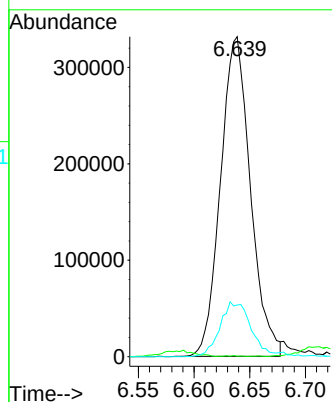
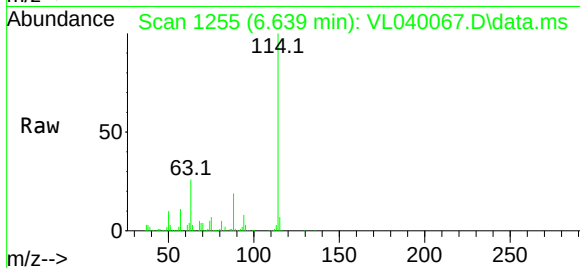
Tgt Ion: 63 Resp: 620098

Ion Ratio Lower Upper

63 100

41 0.0 61.4 92.0#

62 16.2 55.4 83.2#



#41

Tetrahydrofuran

Concen: 0.078 ppbv

RT: 5.803 min Scan# 995

Delta R.T. 0.264 min

Lab File: VL040067.D

Acq: 22 Dec 2022 14:30

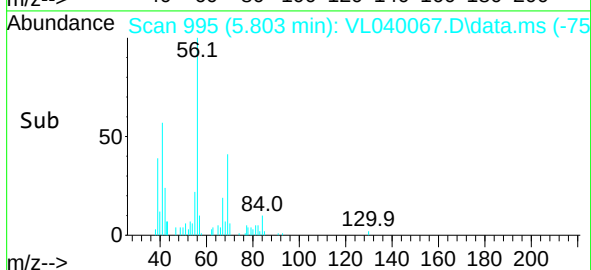
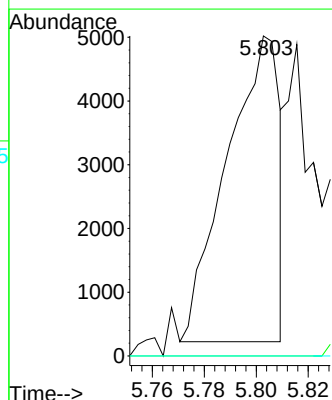
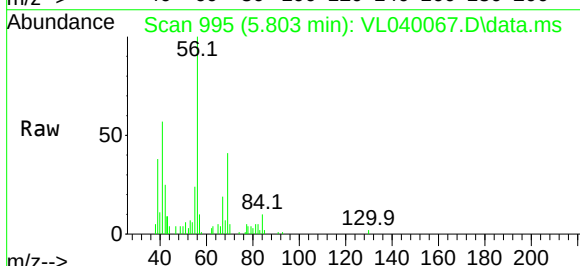
Tgt Ion: 42 Resp: 6733

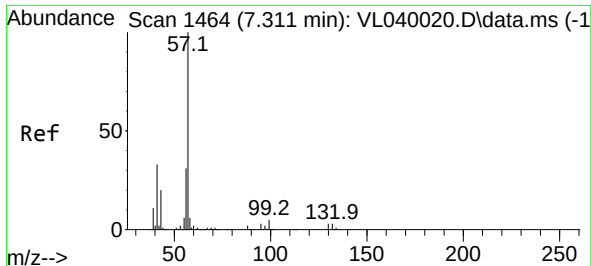
Ion Ratio Lower Upper

42 100

72 0.0 32.9 49.3#

71 0.0 32.2 48.2#

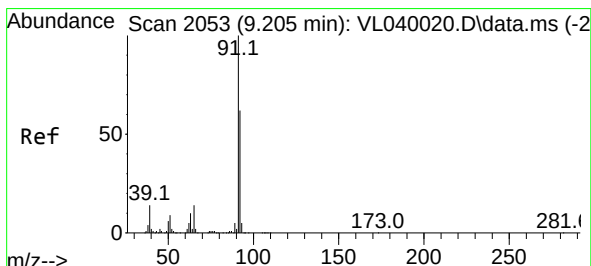
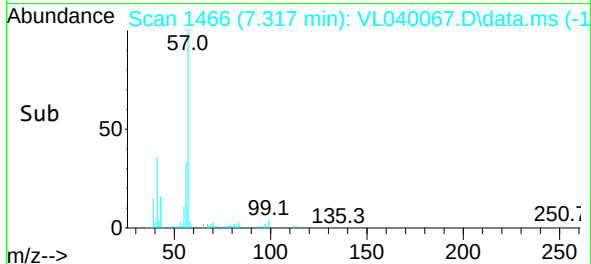
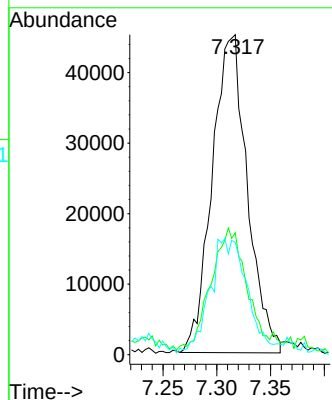
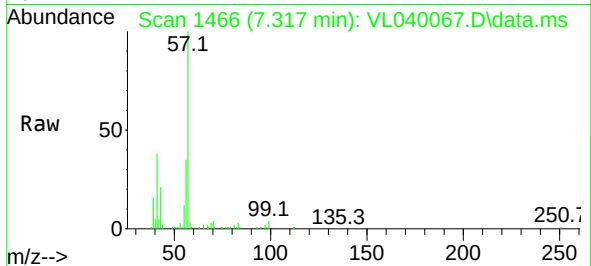




#44
2,2,4-Trimethylpentane
Concen: 0.275 ppbv
RT: 7.317 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL040067.D
Acq: 22 Dec 2022 14:30

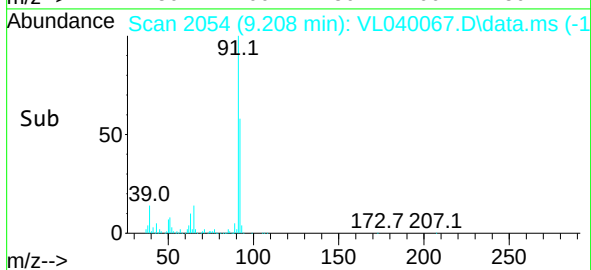
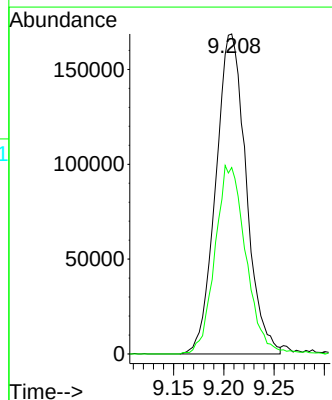
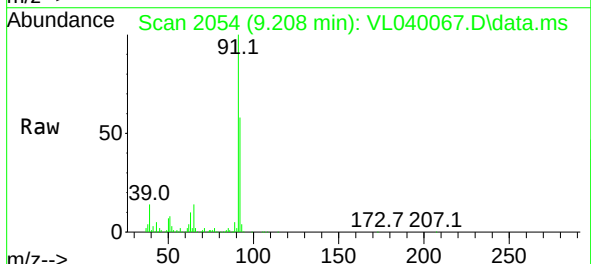
Instrument :
MSVOA_1
ClientSampleId :

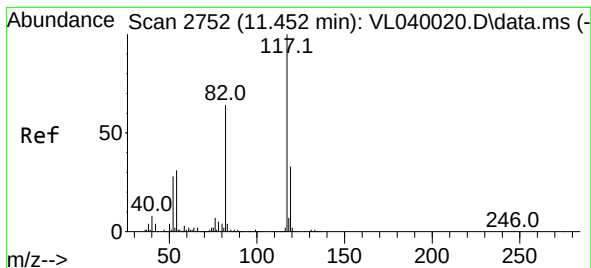
Tgt Ion: 57 Resp: 102558
Ion Ratio Lower Upper
57 100
41 47.4 26.2 39.4#
56 42.3 25.1 37.7#



#53
Toluene
Concen: 1.412 ppbv
RT: 9.208 min Scan# 2054
Delta R.T. 0.003 min
Lab File: VL040067.D
Acq: 22 Dec 2022 14:30

Tgt Ion: 91 Resp: 354053
Ion Ratio Lower Upper
91 100
92 60.3 48.7 73.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.452 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL040067.D

Acq: 22 Dec 2022 14:30

Instrument :

MSVOA_L

ClientSampleId :

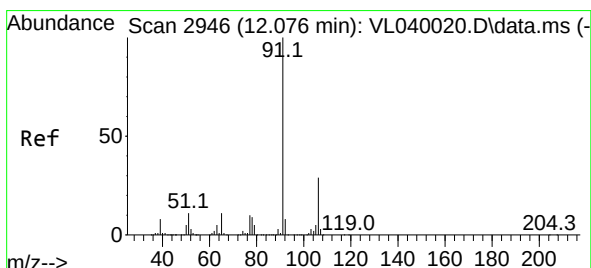
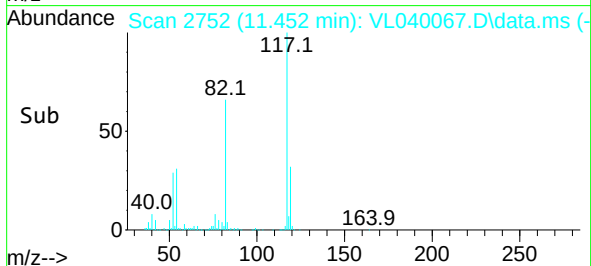
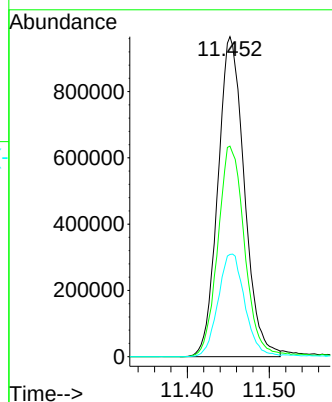
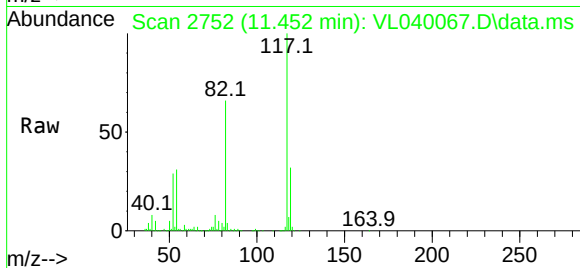
Tgt Ion:117 Resp: 2161238

Ion Ratio Lower Upper

117 100

82 67.7 51.2 76.8

119 33.1 23.2 34.8



#58

Ethyl Benzene

Concen: 0.236 ppbv

RT: 12.076 min Scan# 2946

Delta R.T. 0.000 min

Lab File: VL040067.D

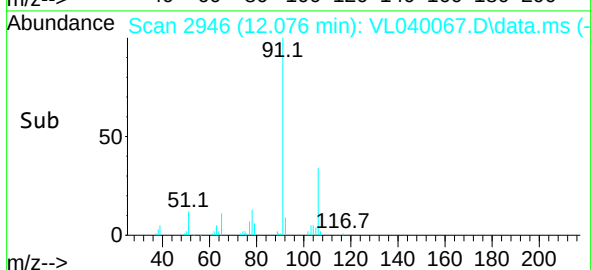
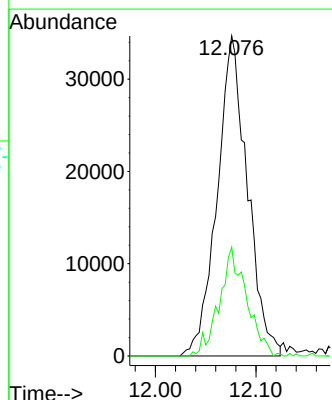
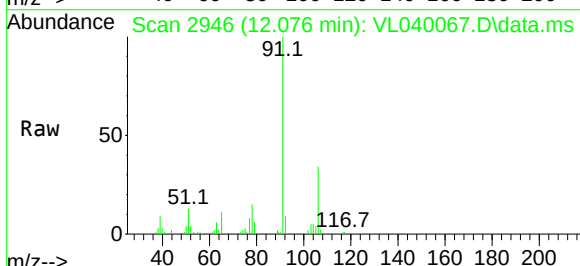
Acq: 22 Dec 2022 14:30

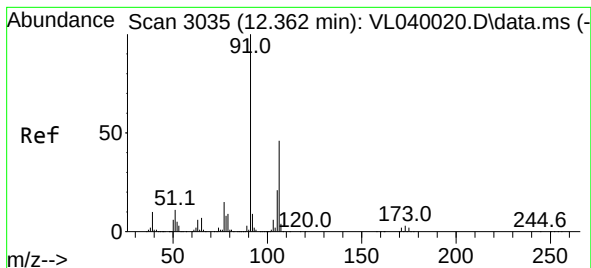
Tgt Ion: 91 Resp: 72476

Ion Ratio Lower Upper

91 100

106 34.0 23.5 35.3





#59

m/p-Xylene

Concen: 0.692 ppbv

RT: 12.333 min Scan# 3035

Delta R.T. -0.029 min

Lab File: VL040067.D

Acq: 22 Dec 2022 14:30

Instrument :

MSVOA_L

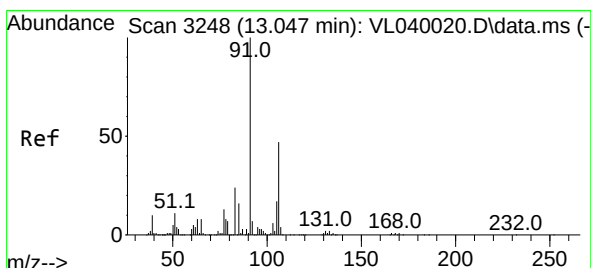
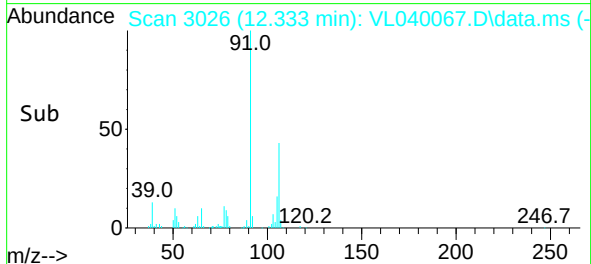
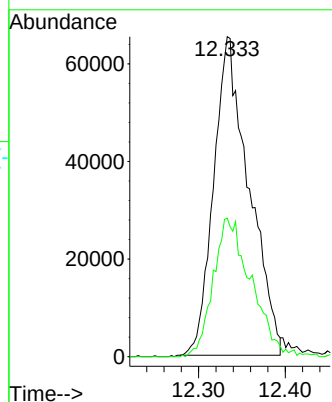
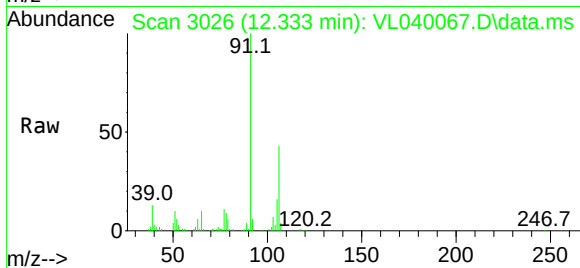
ClientSampleId :

Tgt Ion: 91 Resp: 185165

Ion Ratio Lower Upper

91 100

106 46.9 35.5 53.3



#60

o-Xylene

Concen: 0.139 ppbv

RT: 13.050 min Scan# 3249

Delta R.T. 0.003 min

Lab File: VL040067.D

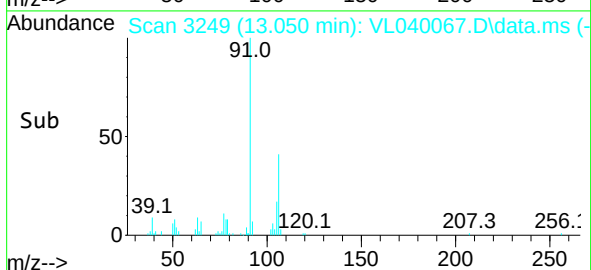
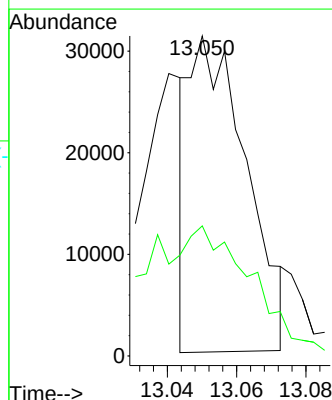
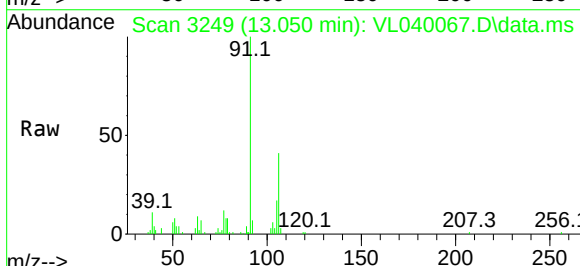
Acq: 22 Dec 2022 14:30

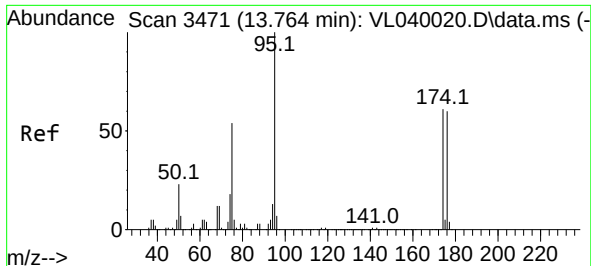
Tgt Ion: 91 Resp: 35580

Ion Ratio Lower Upper

91 100

106 83.1 22.4 67.0#

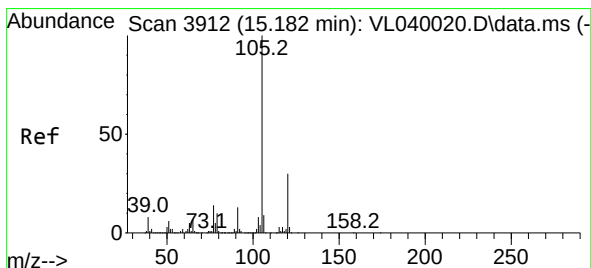
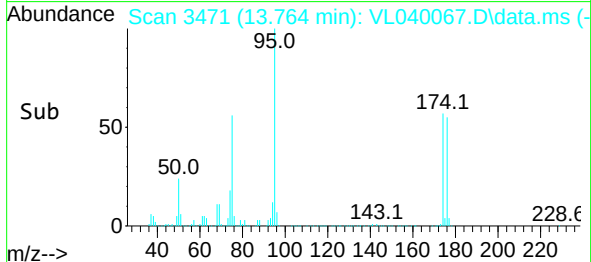
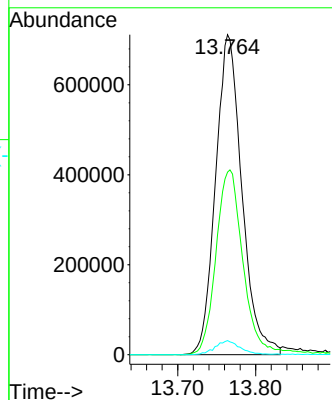
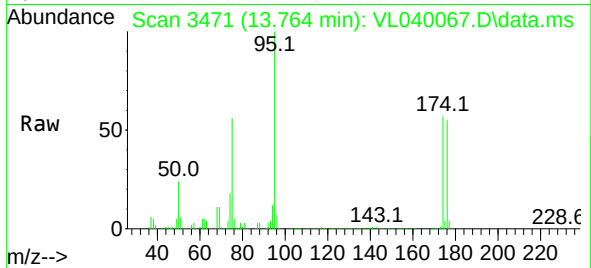




#68
1-Bromo-4-Fluorobenzene
Concen: 10.114 ppbv
RT: 13.764 min Scan# 3471
Delta R.T. 0.000 min
Lab File: VL040067.D
Acq: 22 Dec 2022 14:30

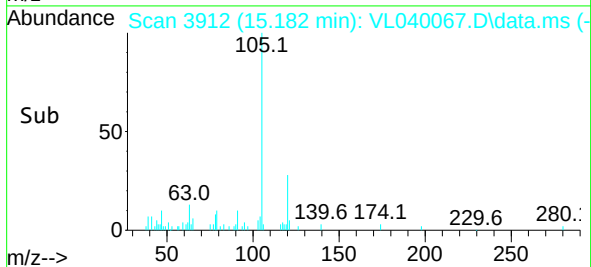
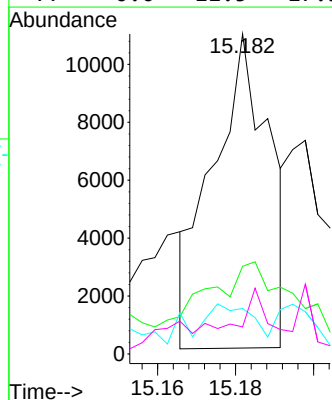
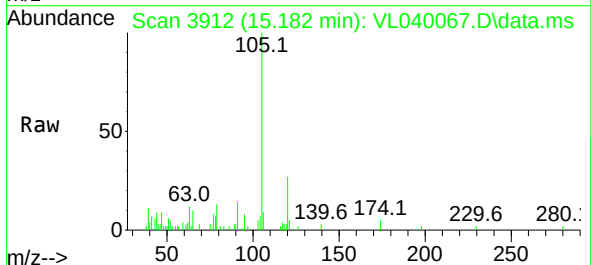
Instrument :
MSVOA_L
ClientSampleId :

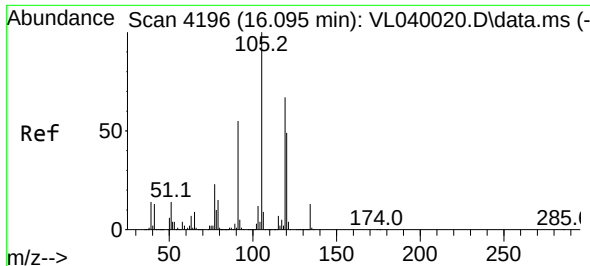
Tgt Ion: 95 Resp: 1669804
Ion Ratio Lower Upper
95 100
174 59.6 48.6 73.0
175 4.4 3.4 5.2



#72
4-Ethyltoluene
Concen: 0.038 ppbv
RT: 15.182 min Scan# 3912
Delta R.T. 0.000 min
Lab File: VL040067.D
Acq: 22 Dec 2022 14:30

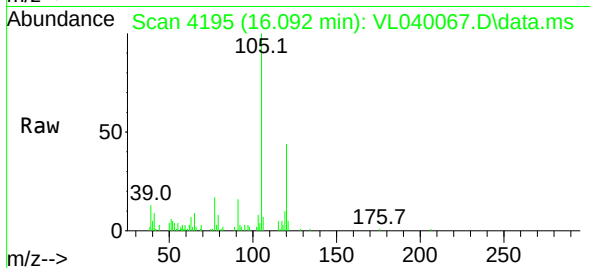
Tgt Ion: 105 Resp: 10923
Ion Ratio Lower Upper
105 100
120 55.9 23.5 35.3#
91 33.8 10.5 15.7#
77 0.0 11.5 17.3#



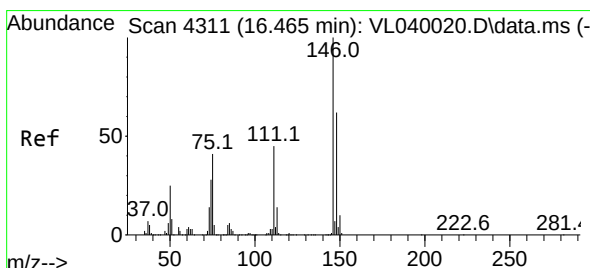
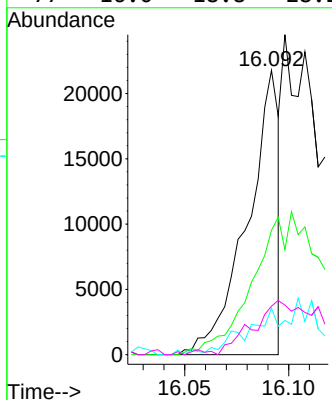
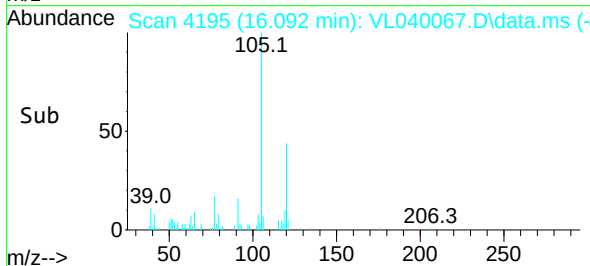


#74
1,2,4-Trimethylbenzene
Concen: 0.081 ppbv
RT: 16.092 min Scan# 4196
Delta R.T. -0.003 min
Lab File: VL040067.D
Acq: 22 Dec 2022 14:30

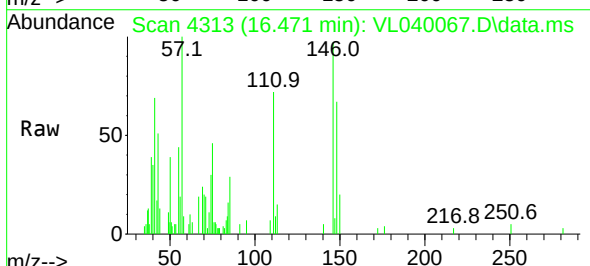
Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion:105	Resp:	22947
Ion	Ratio	Lower Upper
105	100	
120	43.8	39.3 58.9
91	14.7	44.2 66.4#
77	16.0	18.8 28.2#



#76
1,4-Dichlorobenzene
Concen: 0.067 ppbv
RT: 16.471 min Scan# 4313
Delta R.T. 0.006 min
Lab File: VL040067.D
Acq: 22 Dec 2022 14:30



Tgt Ion:146	Resp:	10181
Ion	Ratio	Lower Upper
146	100	
111	65.3	23.4 70.2
148	82.2	32.0 96.2

