

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111523\
 Data File : VL040872.D
 Acq On : 15 Nov 2023 17:33
 Operator : SY/MD
 Sample : 05277-04 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 NT-SS-6

Quant Time: Nov 16 05:54:11 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Nov 13 15:42:46 2023
 Response via : Initial Calibration

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

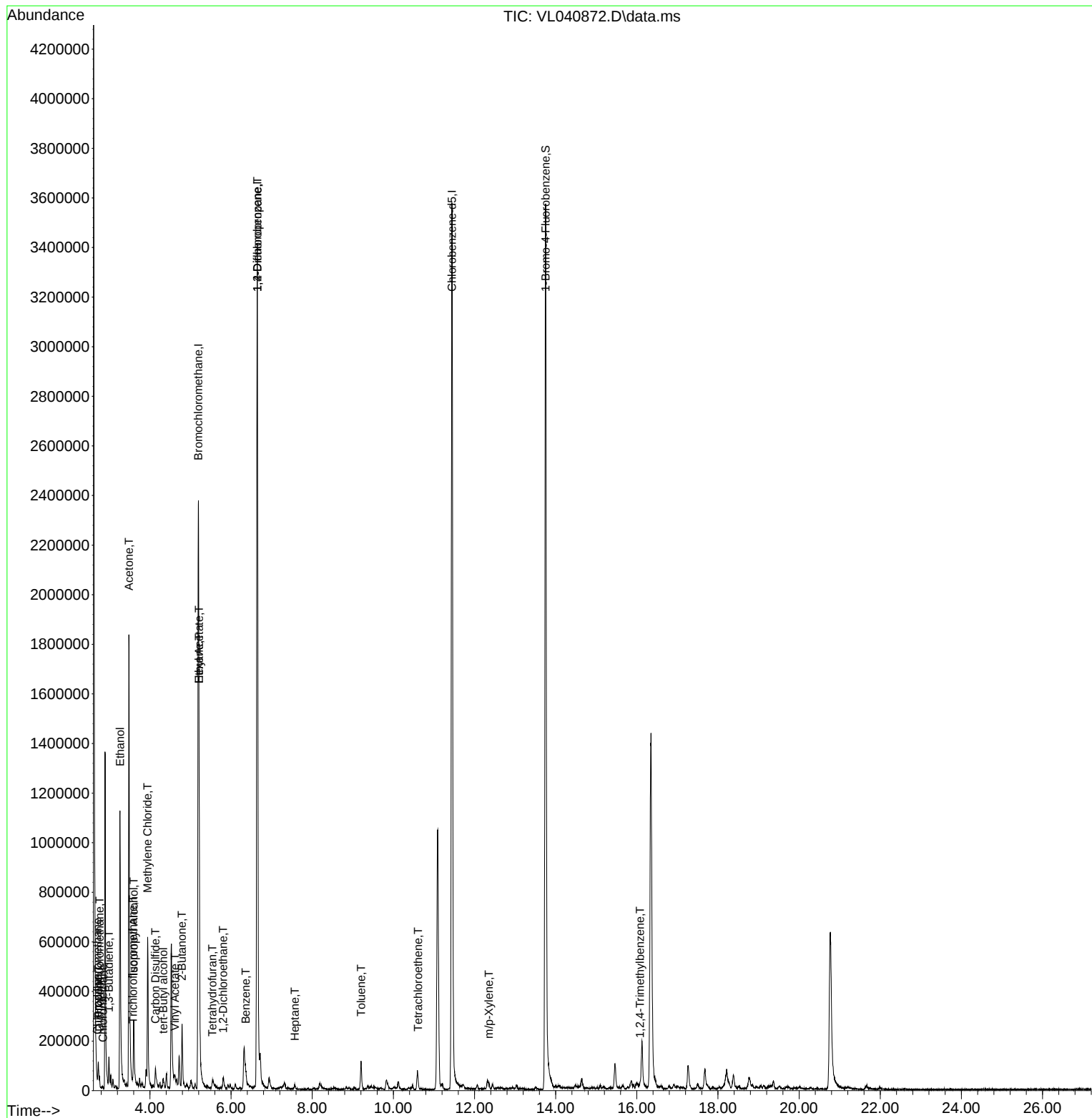
Internal Standards						
1) Bromochloromethane	5.192	49	1033310	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.645	114	2581846	10.000	ppbv	0.01
55) Chlorobenzene-d5	11.442	117	2350092	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.751	95	1838461	9.992	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.758	85	23124	0.110	ppbv	92
3) Chlorodifluoromethane	2.706	51	19382	0.117	ppbv #	83
4) Chloromethane	2.841	50	3565	0.060	ppbv #	78
9) Propene	2.726	41	32261	0.580	ppbv	99
10) Heptane	7.574	43	4697	0.034	ppbv #	28
11) Trichlorofluoromethane	3.584	101	8104	0.050	ppbv	88
13) Ethanol	3.263	45	1122953	104.014	ppbv #	100
15) Acetone	3.481	43	1738661	15.799	ppbv	94
16) 1,3-Butadiene	2.989	39	26285	0.472	ppbv #	11
17) tert-Butyl alcohol	4.330	59	14008	0.149	ppbv	95
19) Isopropyl Alcohol	3.600	45	263794	3.983	ppbv #	1
20) Methylene Chloride	3.944	84	189106	4.164	ppbv	96
23) Vinyl Acetate	4.619	43	17578	0.124	ppbv #	59
25) Ethyl Acetate	5.211	43	221476	0.972	ppbv #	79
26) Hexane	5.211	57	300812	2.983	ppbv #	42
27) Carbon Disulfide	4.137	76	83274	0.651	ppbv #	87
34) 2-Butanone	4.790	43	278463	2.117	ppbv	96
36) Benzene	6.359	78	18544	0.088	ppbv #	87
37) 1,2-Dichloroethane	5.803	62	18651	0.151	ppbv	97
39) 1,2-Dichloropropane	6.645	63	657258	7.911	ppbv #	24
41) Tetrahydrofuran	5.539	42	6127	0.076	ppbv #	80
52) Tetrachloroethene	10.606	164	6499	0.092	ppbv #	72
53) Toluene	9.204	91	75481	0.327	ppbv	99
59) m/p-Xylene	12.352	91	9389	0.036	ppbv #	32
74) 1,2,4-Trimethylbenzene	16.079	105	8779	0.033	ppbv #	78

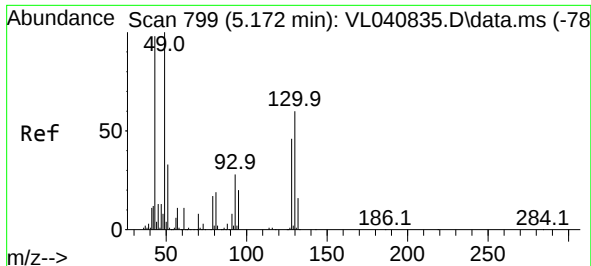
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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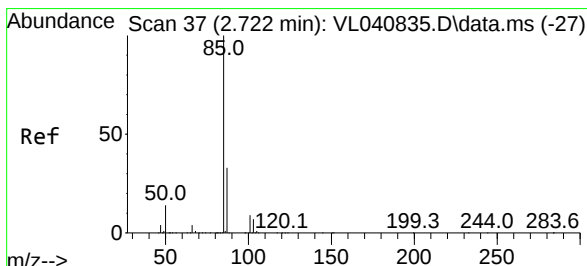
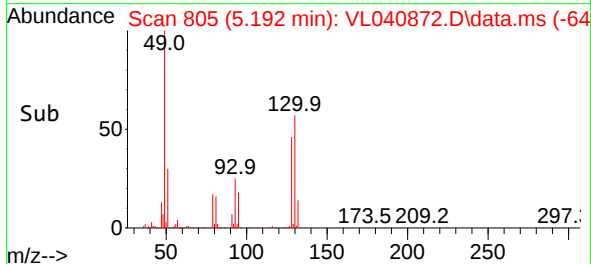
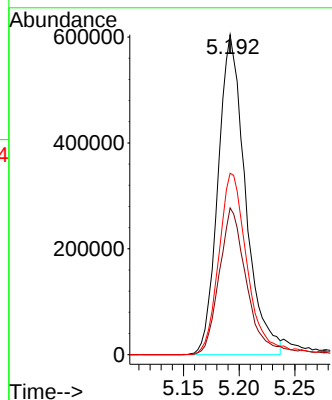
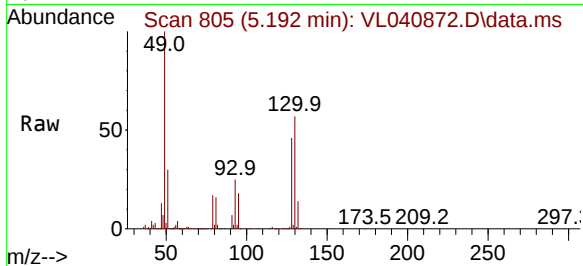




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. 0.020 min
Lab File: VL040872.D
Acq: 15 Nov 2023 17:33

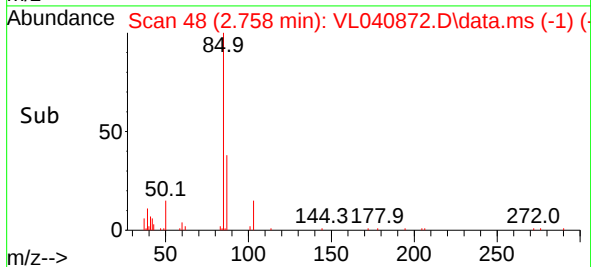
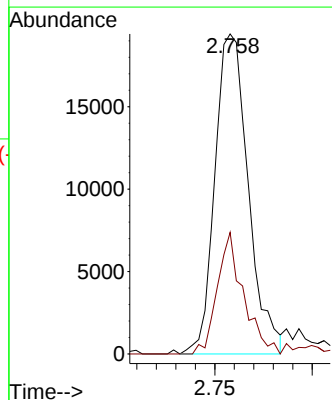
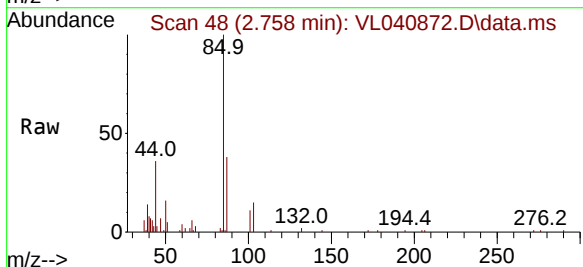
Instrument :
MSVOA_L
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NT-SS-6

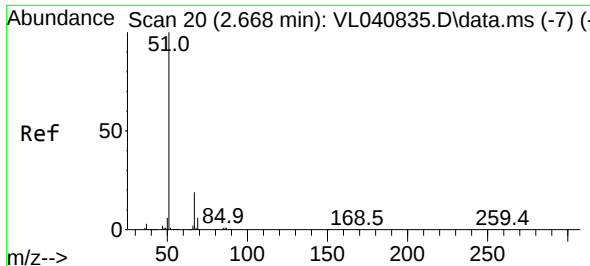
Tgt Ion: 49 Resp: 1033310
Ion Ratio Lower Upper
49 100
128 47.3 23.8 71.2
130 61.3 30.9 92.8



#2
Dichlorodifluoromethane
Concen: 0.110 ppbv
RT: 2.758 min Scan# 48
Delta R.T. 0.035 min
Lab File: VL040872.D
Acq: 15 Nov 2023 17:33

Tgt Ion: 85 Resp: 23124
Ion Ratio Lower Upper
85 100
87 38.0 26.7 40.1

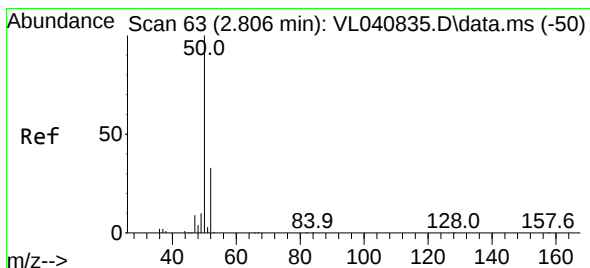
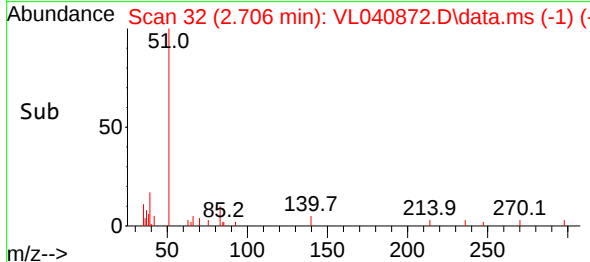
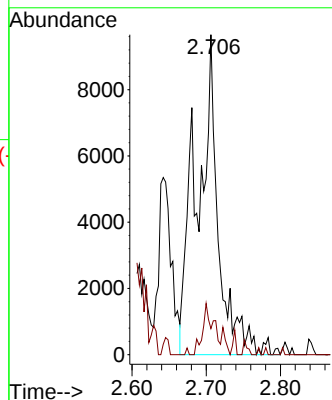
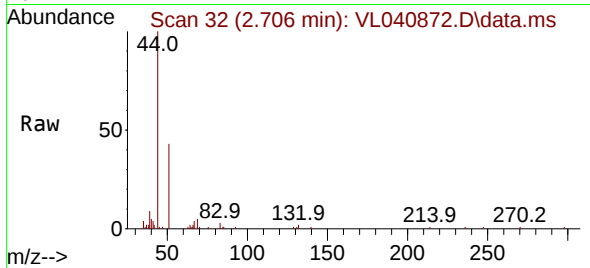




#3
Chlorodifluoromethane
Concen: 0.117 ppbv
RT: 2.706 min Scan# 31
Delta R.T. 0.039 min
Lab File: VL040872.D
Acq: 15 Nov 2023 17:33

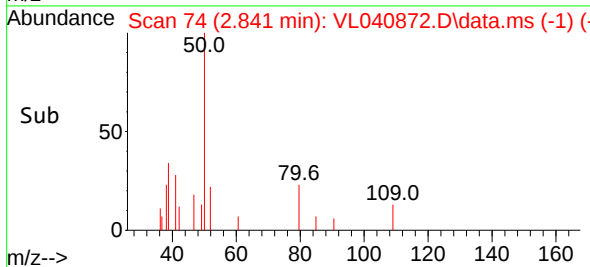
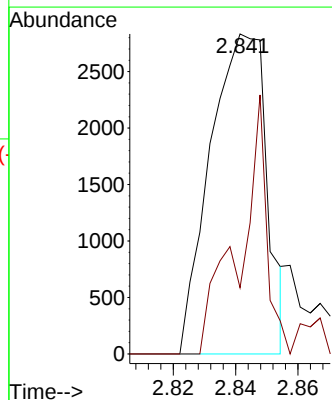
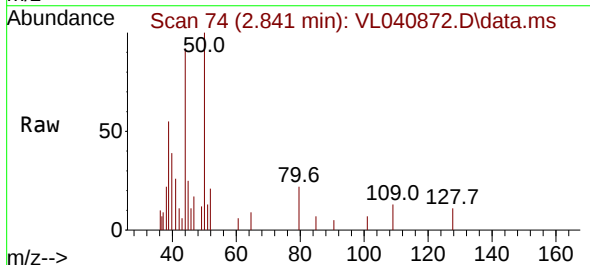
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-6

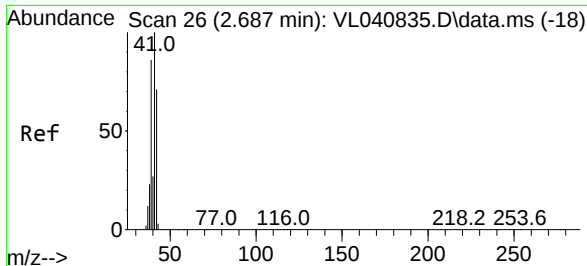
Tgt Ion: 51 Resp: 19382
Ion Ratio Lower Upper
51 100
67 10.9 15.0 22.4#



#4
Chloromethane
Concen: 0.060 ppbv
RT: 2.841 min Scan# 74
Delta R.T. 0.035 min
Lab File: VL040872.D
Acq: 15 Nov 2023 17:33

Tgt Ion: 50 Resp: 3565
Ion Ratio Lower Upper
50 100
52 20.7 26.5 39.7#





#9

Propene

Concen: 0.580 ppbv

RT: 2.726 min Scan# 31

Delta R.T. 0.039 min

Lab File: VL040872.D

Acq: 15 Nov 2023 17:33

Instrument :

MSVOA_1

ClientSampleId :

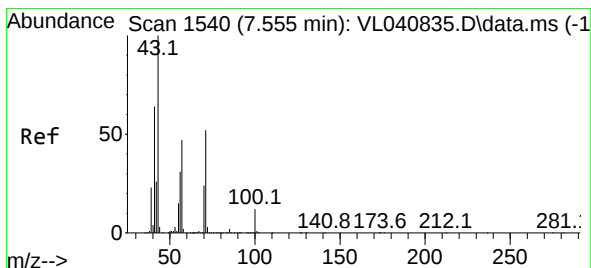
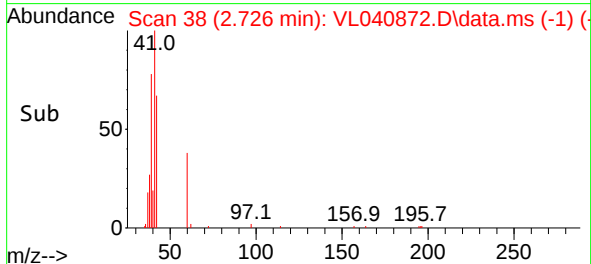
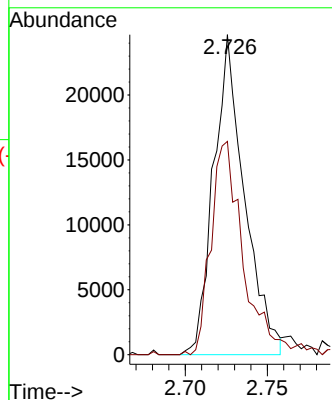
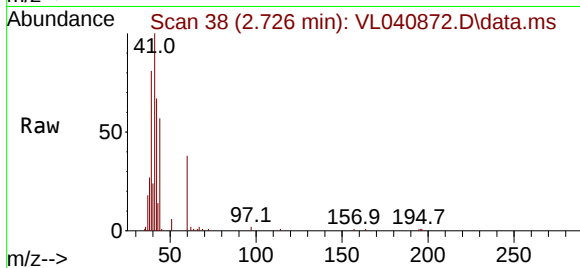
NT-SS-6

Tgt Ion: 41 Resp: 32261

Ion Ratio Lower Upper

41 100

42 71.6 56.5 84.7



#10

Heptane

Concen: 0.034 ppbv

RT: 7.574 min Scan# 1546

Delta R.T. 0.019 min

Lab File: VL040872.D

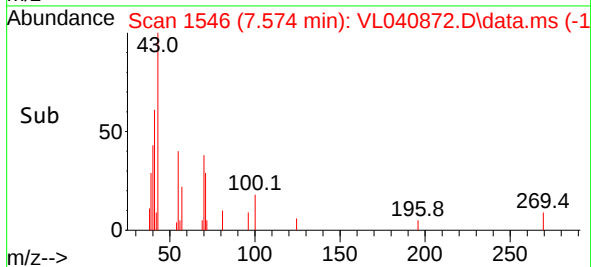
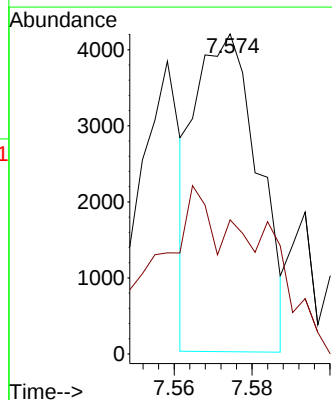
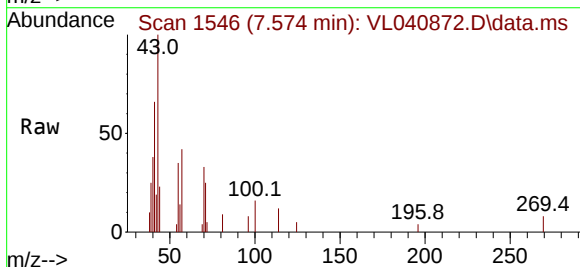
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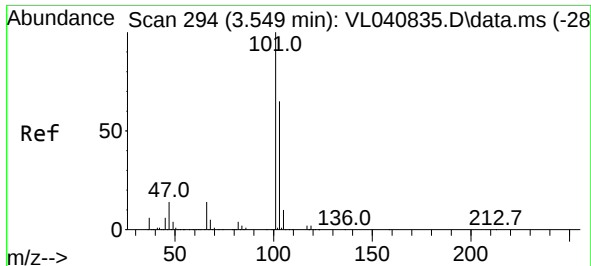
Tgt Ion: 43 Resp: 4697

Ion Ratio Lower Upper

43 100

57 0.0 39.4 59.0#

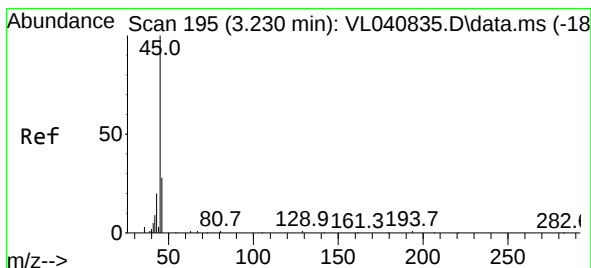
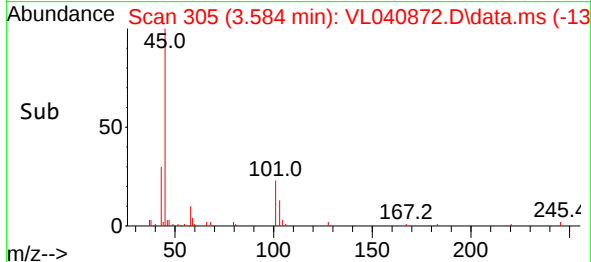
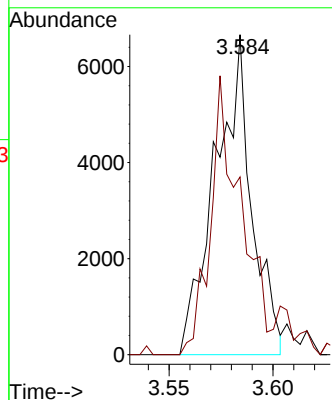
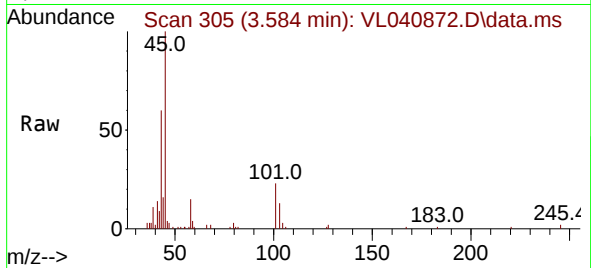




#11
 Trichlorofluoromethane
 Concen: 0.050 ppbv
 RT: 3.584 min Scan# 305
 Delta R.T. 0.035 min
 Lab File: VL040872.D
 Acq: 15 Nov 2023 17:33

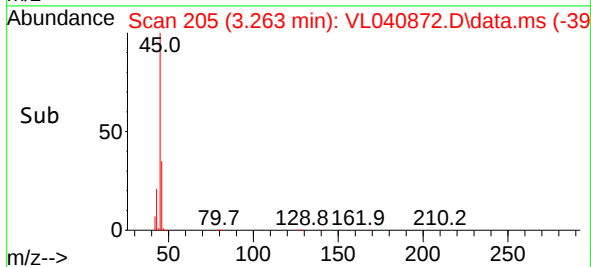
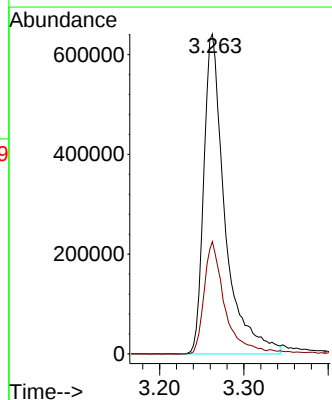
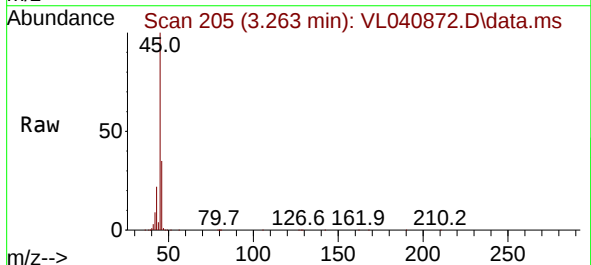
Instrument :
 MSVOA_L
 ClientSampleId :
 NT-SS-6

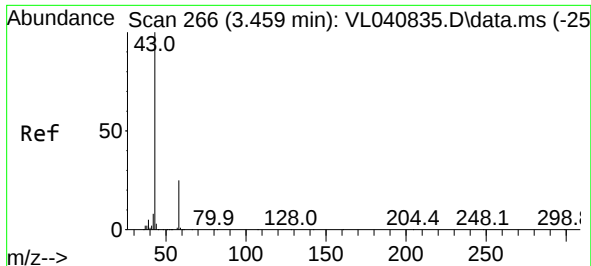
Tgt Ion:101 Resp: 8104
 Ion Ratio Lower Upper
 101 100
 103 55.5 51.8 77.8



#13
 Ethanol
 Concen: 104.014 ppbv
 RT: 3.263 min Scan# 205
 Delta R.T. 0.032 min
 Lab File: VL040872.D
 Acq: 15 Nov 2023 17:33

Tgt Ion: 45 Resp: 1122953
 Ion Ratio Lower Upper
 45 100
 46 35.6 0.0 0.0#

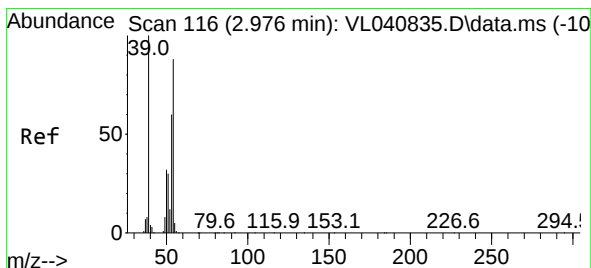
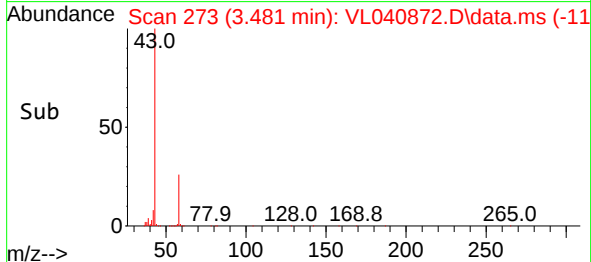
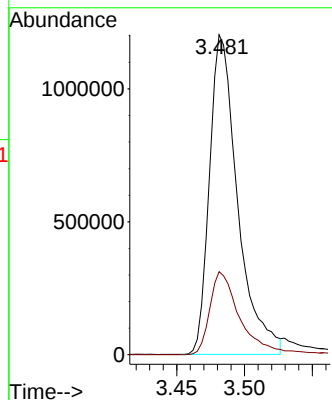
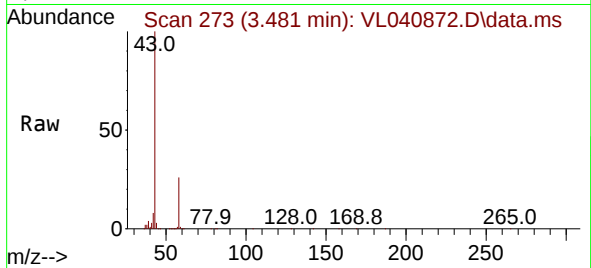




#15
Acetone
Concen: 15.799 ppbv
RT: 3.481 min Scan# 21
Delta R.T. 0.023 min
Lab File: VL040872.D
Acq: 15 Nov 2023 17:33

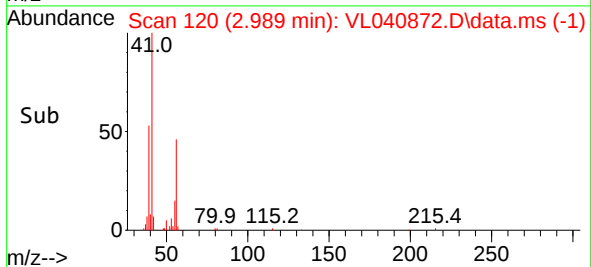
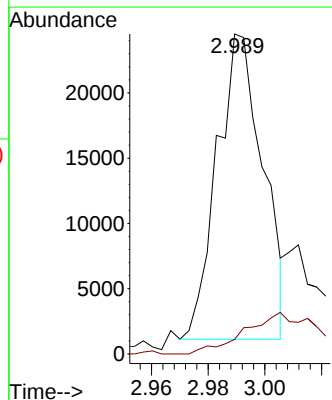
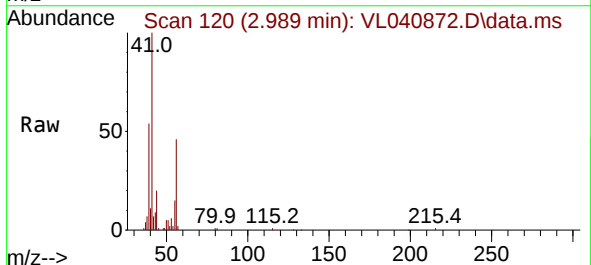
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-6

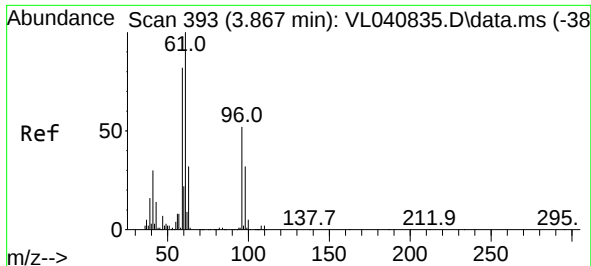
Tgt Ion: 43 Resp: 1738661
Ion Ratio Lower Upper
43 100
58 29.2 20.9 31.3



#16
1,3-Butadiene
Concen: 0.472 ppbv
RT: 2.989 min Scan# 120
Delta R.T. 0.013 min
Lab File: VL040872.D
Acq: 15 Nov 2023 17:33

Tgt Ion: 39 Resp: 26285
Ion Ratio Lower Upper
39 100
54 0.0 61.8 92.6#





#17

tert-Butyl alcohol

Concen: 0.149 ppbv

RT: 4.330 min Scan# 51

Delta R.T. 0.463 min

Lab File: VL040872.D

Acq: 15 Nov 2023 17:33

Instrument :

MSVOA_L

ClientSampleId :

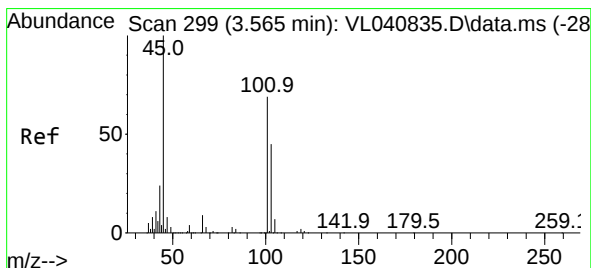
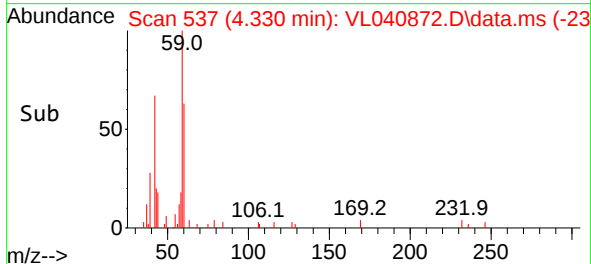
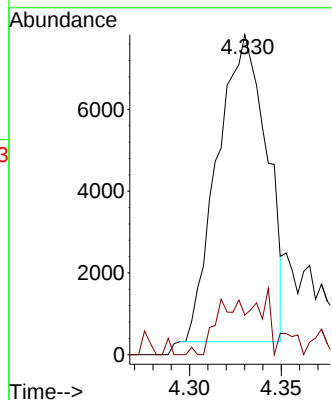
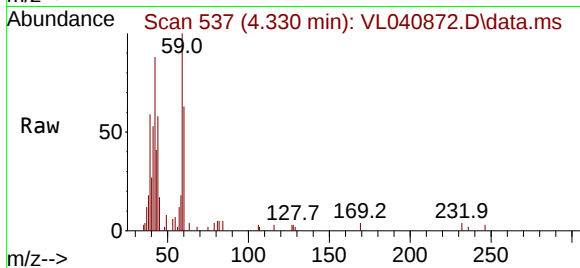
NT-SS-6

Tgt Ion: 59 Resp: 14008

Ion Ratio Lower Upper

59 100

57 9.1 9.0 13.4



#19

Isopropyl Alcohol

Concen: 3.983 ppbv

RT: 3.600 min Scan# 310

Delta R.T. 0.035 min

Lab File: VL040872.D

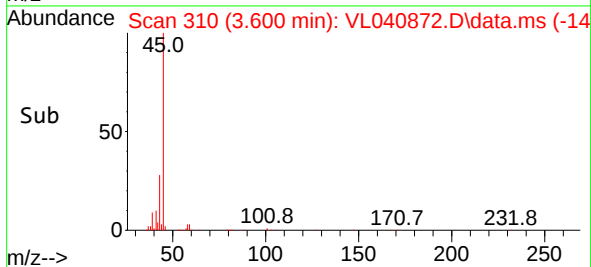
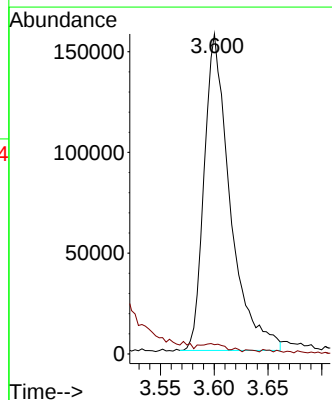
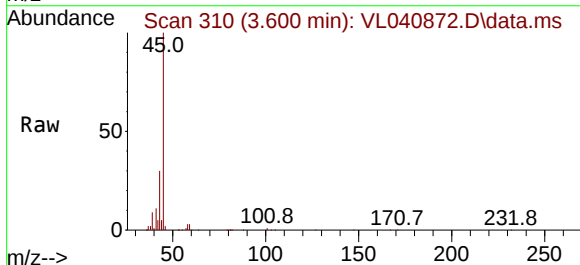
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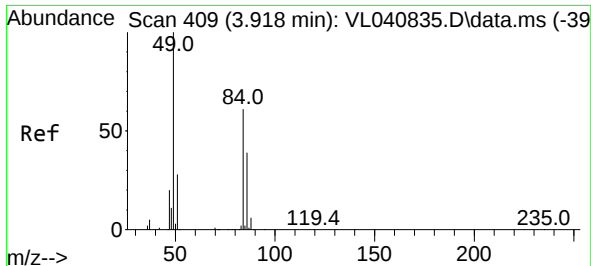
Tgt Ion: 45 Resp: 263794

Ion Ratio Lower Upper

45 100

58 192.2 1.6 2.4#

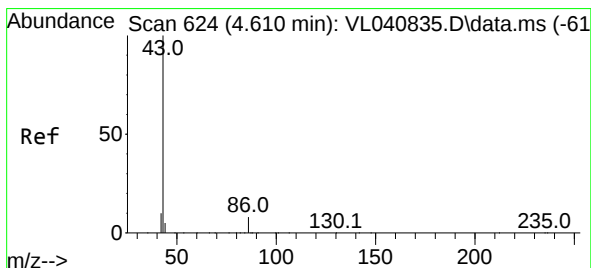
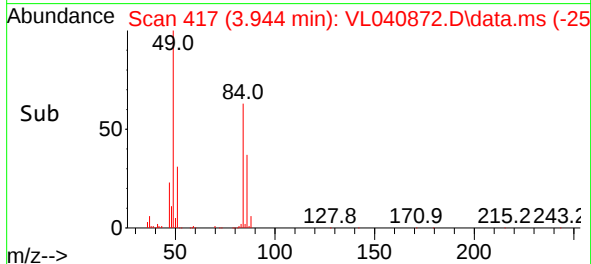
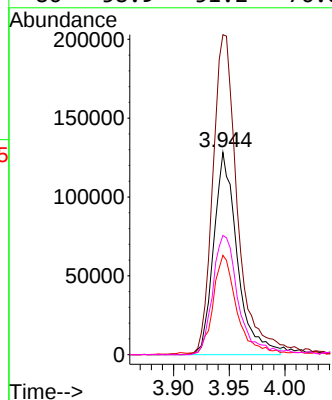
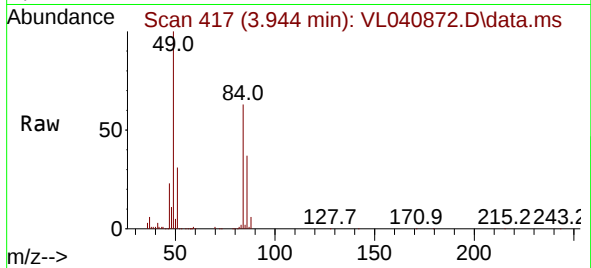




#20
Methylene Chloride
Concen: 4.164 ppbv
RT: 3.944 min Scan# 417
Delta R.T. 0.026 min
Lab File: VL040872.D
Acq: 15 Nov 2023 17:33

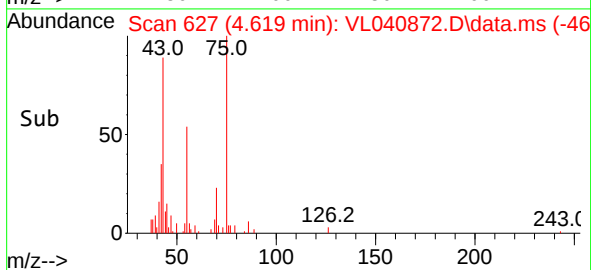
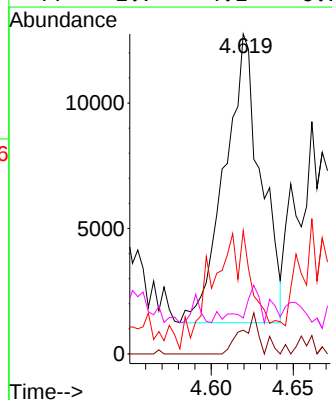
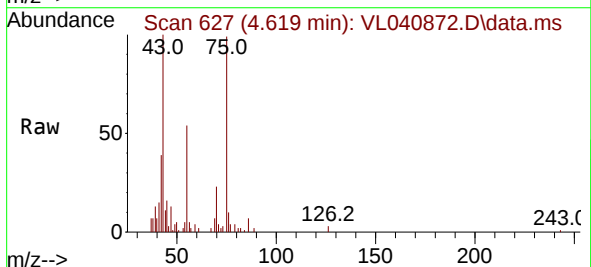
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-6

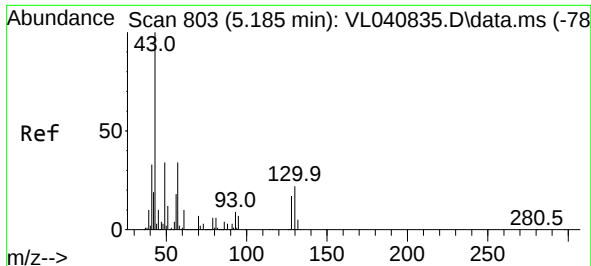
Tgt Ion: 84 Resp: 189106
Ion Ratio Lower Upper
84 100
49 158.2 131.0 196.4
51 48.0 36.9 55.3
86 58.9 51.2 76.8



#23
Vinyl Acetate
Concen: 0.124 ppbv
RT: 4.619 min Scan# 627
Delta R.T. 0.010 min
Lab File: VL040872.D
Acq: 15 Nov 2023 17:33

Tgt Ion: 43 Resp: 17578
Ion Ratio Lower Upper
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86 8.2 5.5 8.3
42 40.9 8.2 12.2#
44 1.7 4.1 6.1#



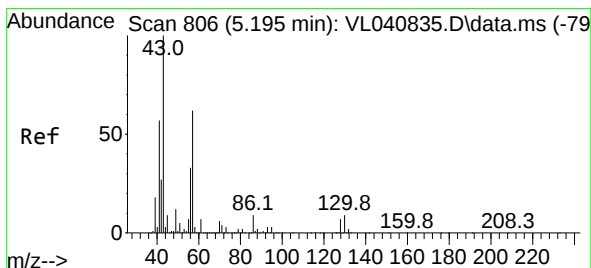
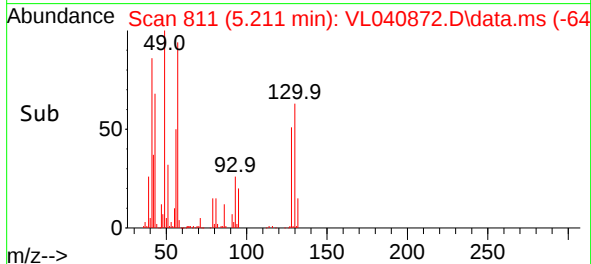
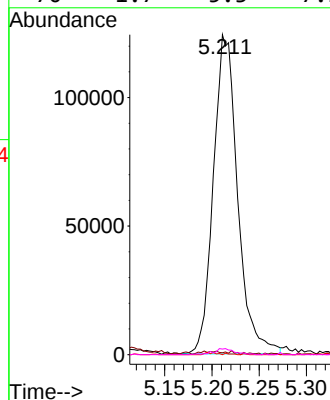
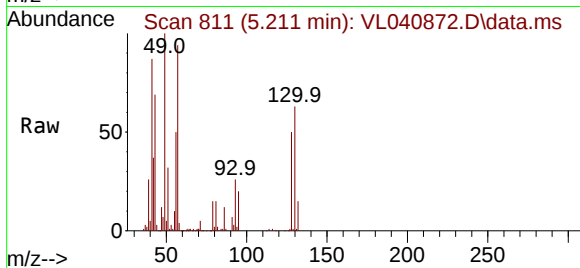


#25
Ethyl Acetate
Concen: 0.972 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.026 min
Lab File: VL040872.D
Acq: 15 Nov 2023 17:33

Instrument :
MSVOA_L
ClientSampleId :
NT-SS-6

Tgt Ion: 43 Resp: 221476

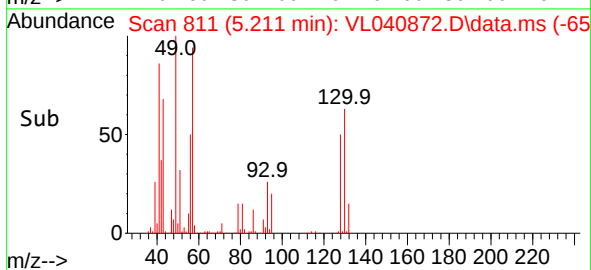
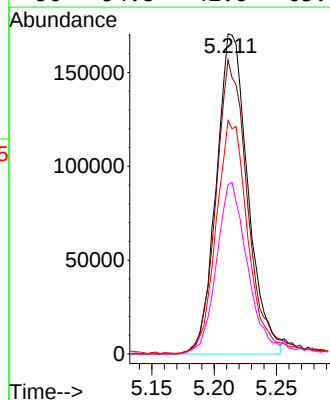
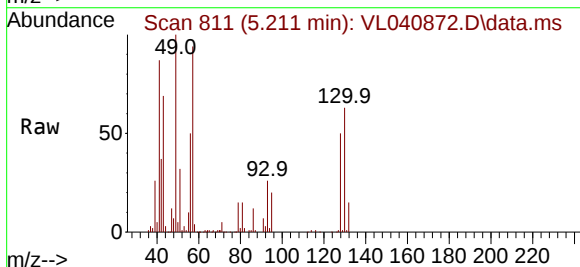
Ion	Ratio	Lower	Upper
43	100		
45	1.8	8.1	12.1#
61	0.5	7.8	11.6#
70	1.7	5.3	7.9#

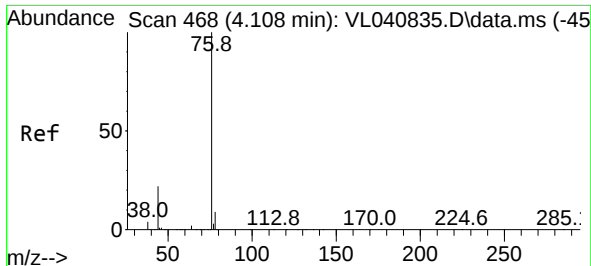


#26
Hexane
Concen: 2.983 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.016 min
Lab File: VL040872.D
Acq: 15 Nov 2023 17:33

Tgt Ion: 57 Resp: 300812

Ion	Ratio	Lower	Upper
57	100		
41	94.6	75.4	113.0
43	74.8	185.9	278.9#
56	54.8	42.6	63.8





#27

Carbon Disulfide

Concen: 0.651 ppbv

RT: 4.137 min Scan# 41

Delta R.T. 0.029 min

Lab File: VL040872.D

Acq: 15 Nov 2023 17:33

Instrument :

MSVOA_L

ClientSampleId :

NT-SS-6

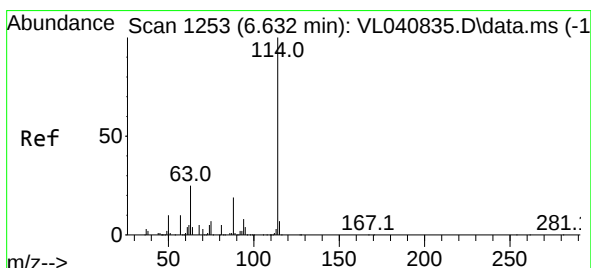
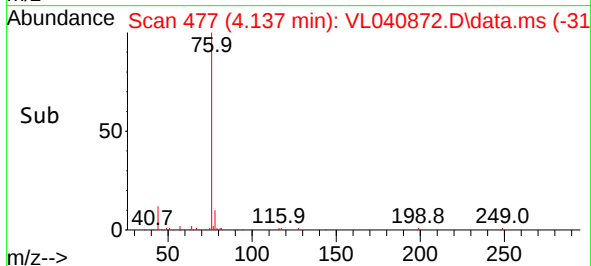
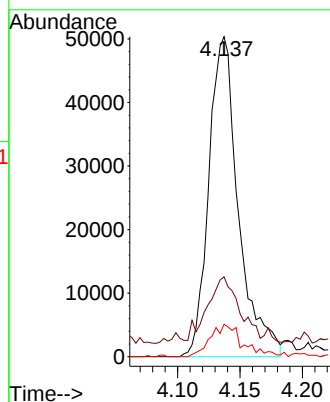
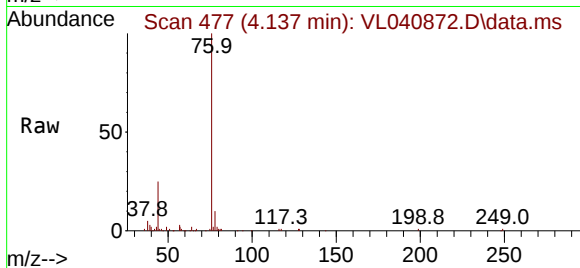
Tgt Ion: 76 Resp: 83274

Ion Ratio Lower Upper

76 100

44 28.5 16.7 25.1#

78 11.2 7.6 11.4



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.645 min Scan# 1257

Delta R.T. 0.013 min

Lab File: VL040872.D

Acq: 15 Nov 2023 17:33

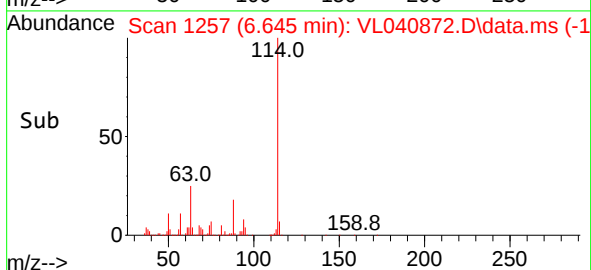
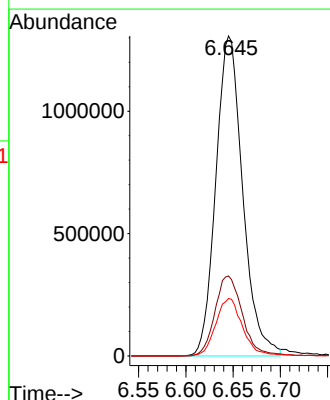
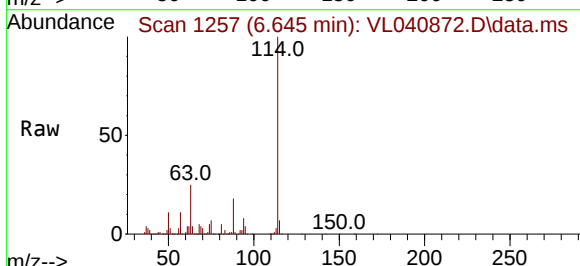
Tgt Ion: 114 Resp: 2581846

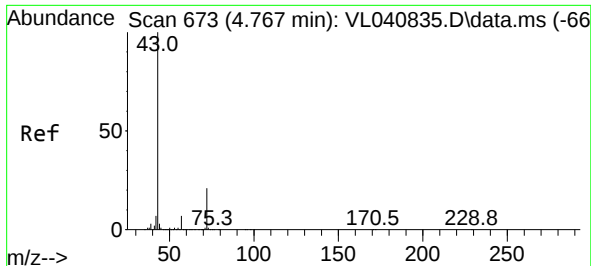
Ion Ratio Lower Upper

114 100

63 25.6 20.9 31.3

88 18.1 14.3 21.5

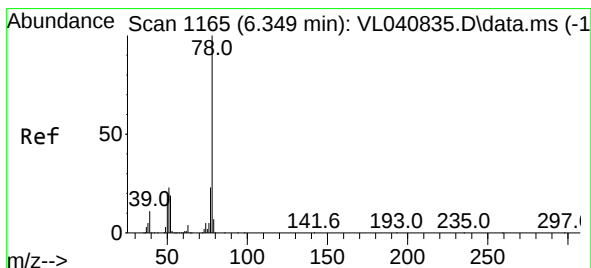
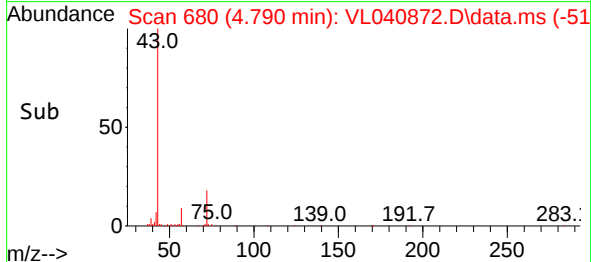
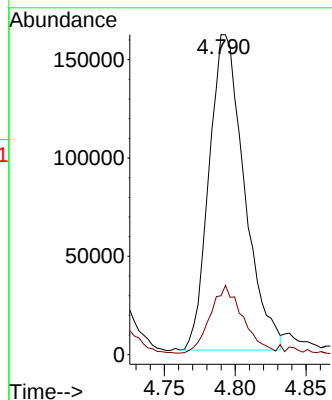
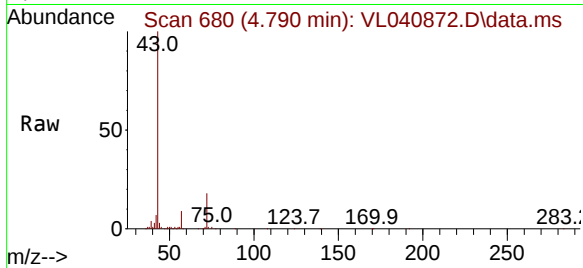




#34
2-Butanone
Concen: 2.117 ppbv
RT: 4.790 min Scan# 61
Delta R.T. 0.023 min
Lab File: VL040872.D
Acq: 15 Nov 2023 17:33

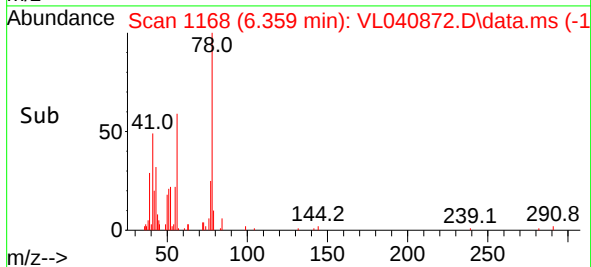
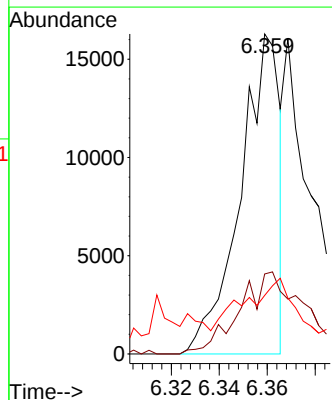
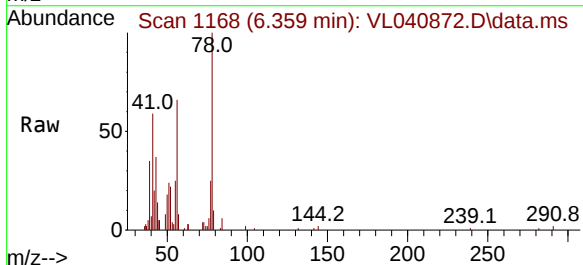
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-6

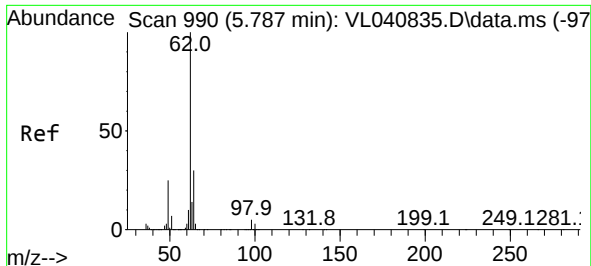
Tgt Ion: 43 Resp: 278463
Ion Ratio Lower Upper
43 100
72 23.2 17.2 25.8



#36
Benzene
Concen: 0.088 ppbv
RT: 6.359 min Scan# 1168
Delta R.T. 0.010 min
Lab File: VL040872.D
Acq: 15 Nov 2023 17:33

Tgt Ion: 78 Resp: 18544
Ion Ratio Lower Upper
78 100
77 25.0 18.4 27.6
50 9.7 16.2 24.2#





#37

1,2-Dichloroethane

Concen: 0.151 ppbv

RT: 5.803 min Scan# 990

Delta R.T. 0.016 min

Lab File: VL040872.D

Acq: 15 Nov 2023 17:33

Instrument :

MSVOA_L

ClientSampleId :

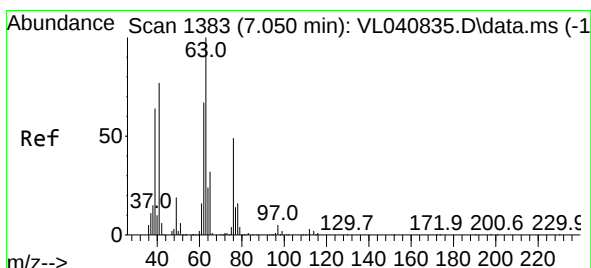
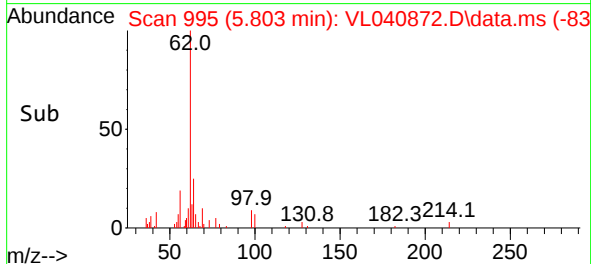
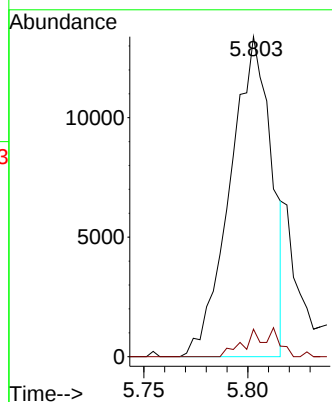
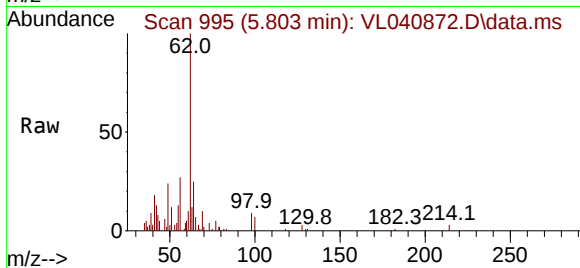
NT-SS-6

Tgt Ion: 62 Resp: 18651

Ion Ratio Lower Upper

62 100

98 6.6 4.6 6.8



#39

1,2-Dichloropropane

Concen: 7.911 ppbv

RT: 6.645 min Scan# 1257

Delta R.T. -0.405 min

Lab File: VL040872.D

Acq: 15 Nov 2023 17:33

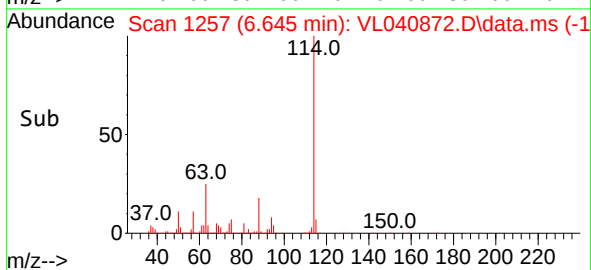
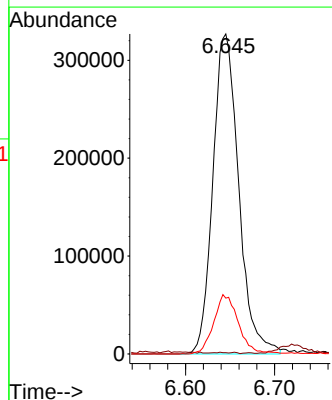
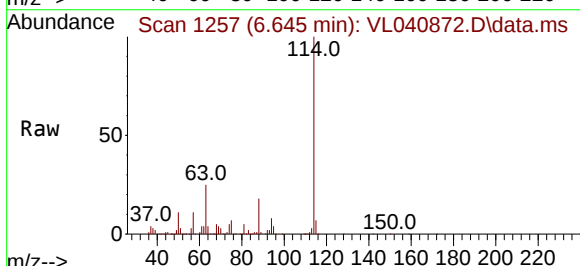
Tgt Ion: 63 Resp: 657258

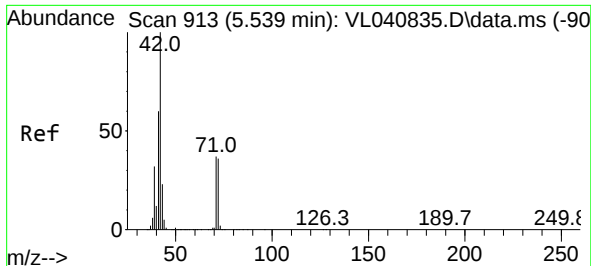
Ion Ratio Lower Upper

63 100

41 0.0 61.5 92.3#

62 17.5 53.9 80.9#

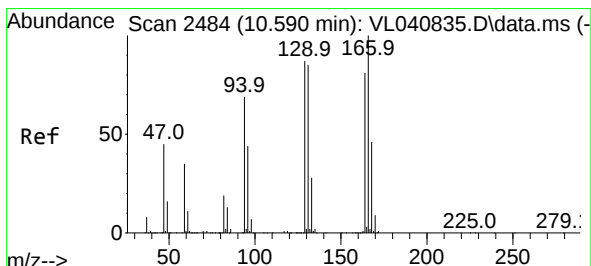
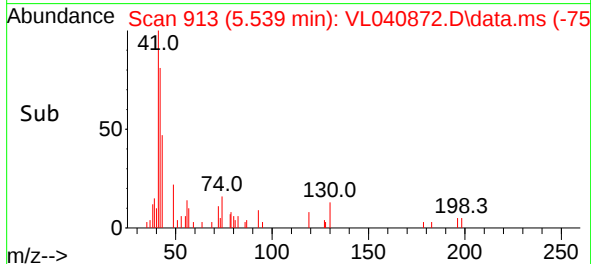
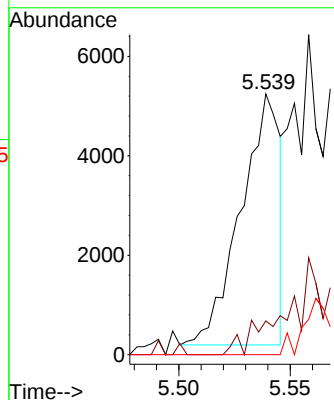
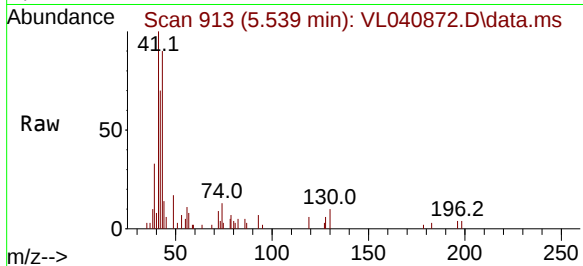




#41
Tetrahydrofuran
Concen: 0.076 ppbv
RT: 5.539 min Scan# 913
Delta R.T. 0.000 min
Lab File: VL040872.D
Acq: 15 Nov 2023 17:33

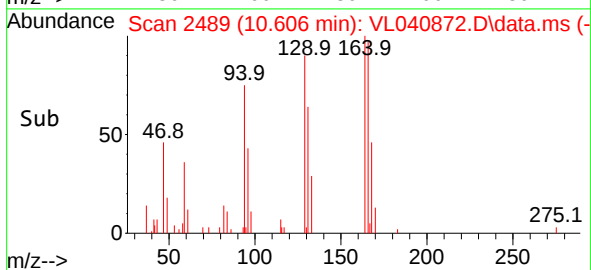
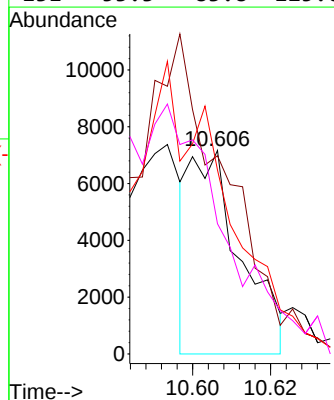
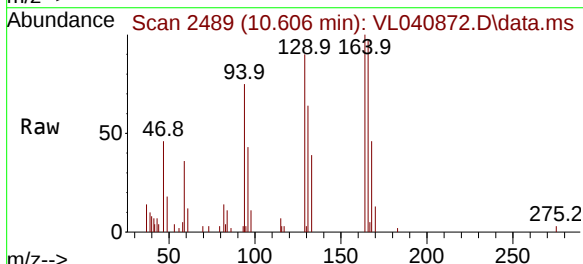
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-6

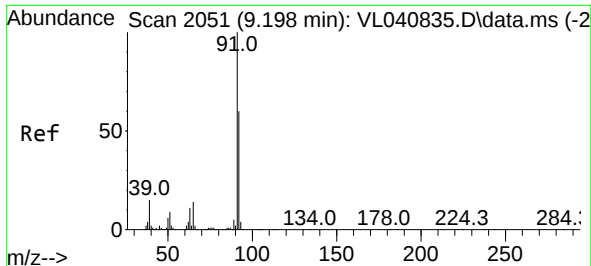
Tgt Ion: 42 Resp: 6127
Ion Ratio Lower Upper
42 100
72 54.9 30.8 46.2#
71 29.8 30.0 45.0#



#52
Tetrachloroethene
Concen: 0.092 ppbv
RT: 10.606 min Scan# 2489
Delta R.T. 0.016 min
Lab File: VL040872.D
Acq: 15 Nov 2023 17:33

Tgt Ion: 164 Resp: 6499
Ion Ratio Lower Upper
164 100
166 104.0 98.3 147.5
129 85.8 85.1 127.7
131 53.3 83.8 125.6#





#53

Toluene

Concen: 0.327 ppbv

RT: 9.204 min Scan# 2051

Delta R.T. 0.006 min

Lab File: VL040872.D

Acq: 15 Nov 2023 17:33

Instrument :

MSVOA_L

ClientSampleId :

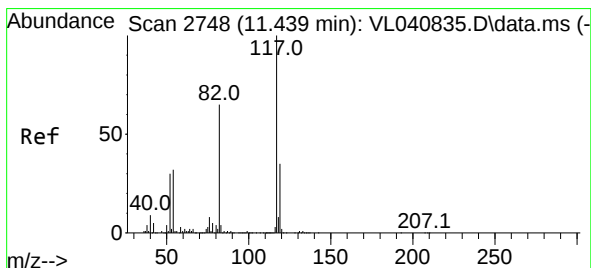
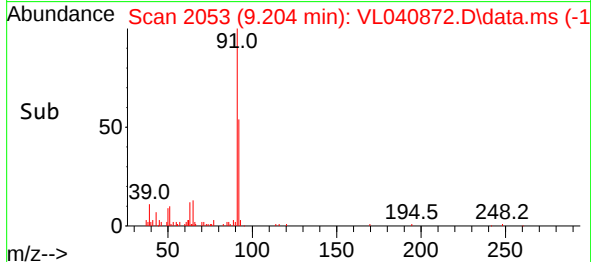
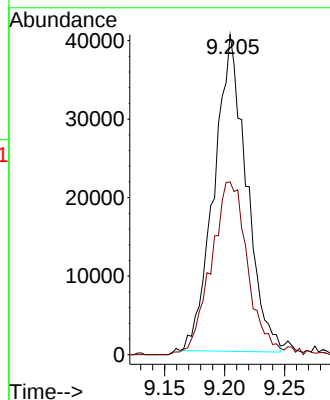
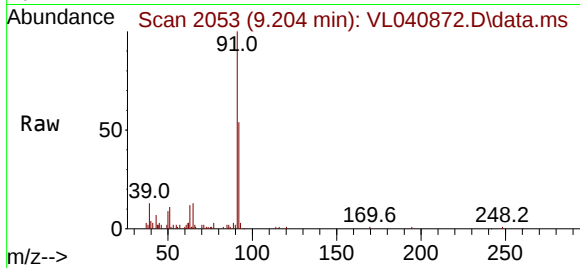
NT-SS-6

Tgt Ion: 91 Resp: 75481

Ion Ratio Lower Upper

91 100

92 62.9 49.4 74.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.442 min Scan# 2749

Delta R.T. 0.003 min

Lab File: VL040872.D

Acq: 15 Nov 2023 17:33

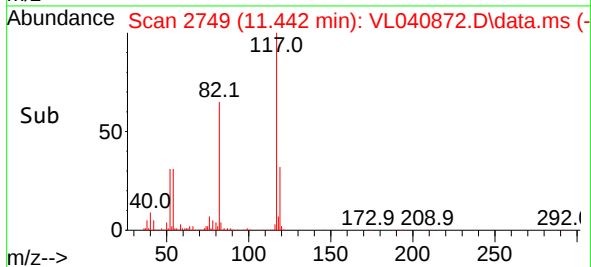
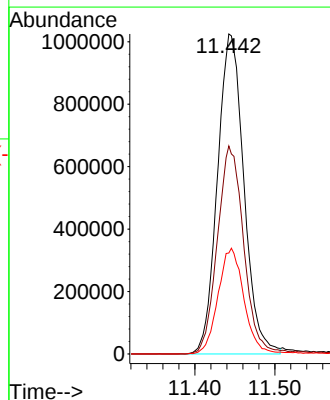
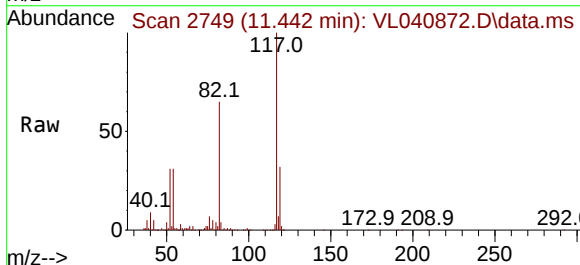
Tgt Ion: 117 Resp: 2350092

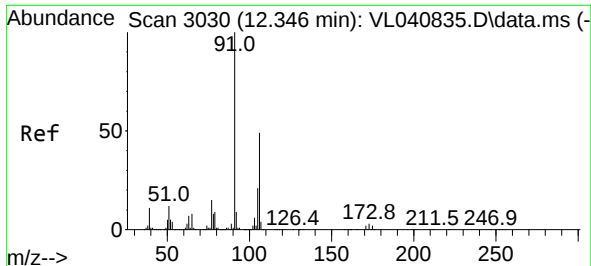
Ion Ratio Lower Upper

117 100

82 66.1 50.6 75.8

119 32.9 23.3 34.9





#59

m/p-Xylene

Concen: 0.036 ppbv

RT: 12.352 min Scan# 3030

Delta R.T. 0.006 min

Lab File: VL040872.D

Acq: 15 Nov 2023 17:33

Instrument :

MSVOA_L

ClientSampleId :

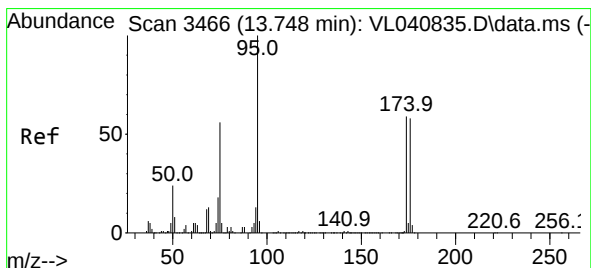
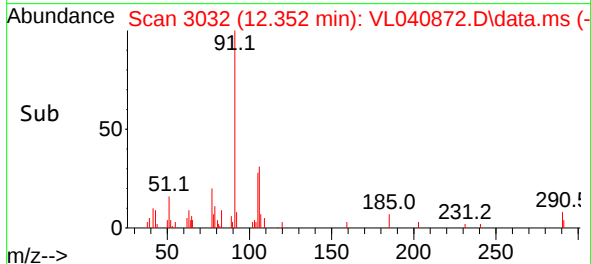
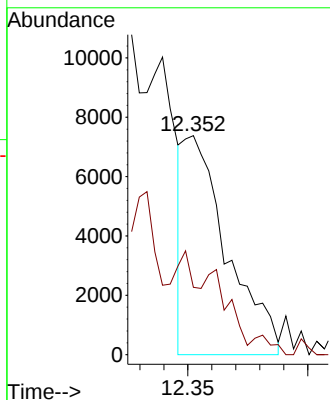
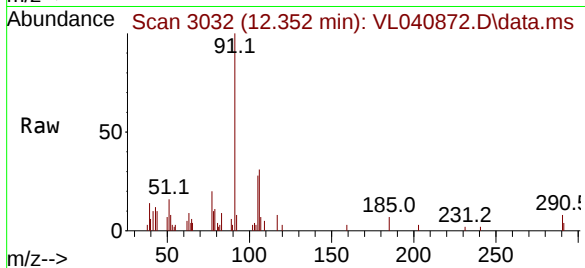
NT-SS-6

Tgt Ion: 91 Resp: 9389

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.0#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.992 ppbv

RT: 13.751 min Scan# 3467

Delta R.T. 0.003 min

Lab File: VL040872.D

Acq: 15 Nov 2023 17:33

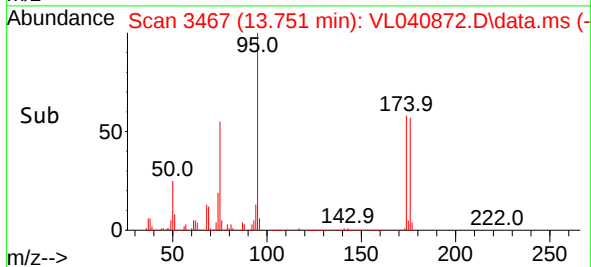
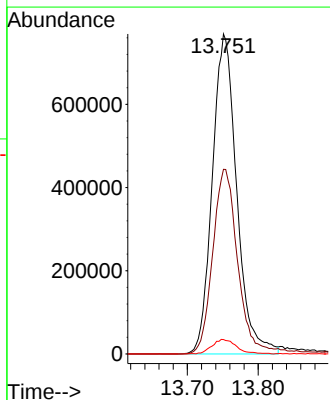
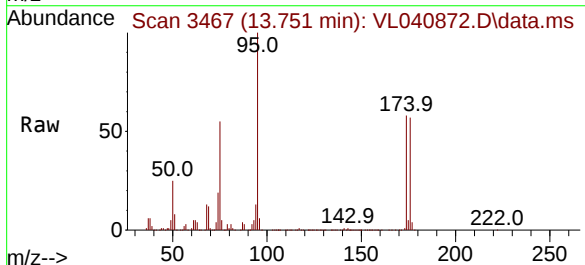
Tgt Ion: 95 Resp: 1838461

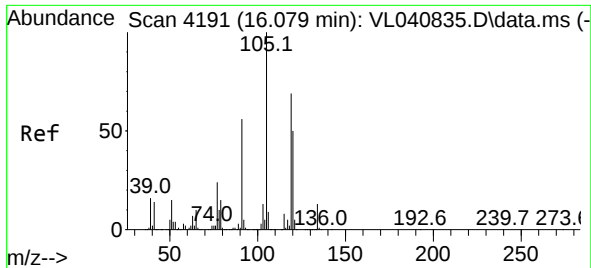
Ion Ratio Lower Upper

95 100

174 60.6 47.5 71.3

175 4.6 3.6 5.4





#74

1,2,4-Trimethylbenzene

Concen: 0.033 ppbv

RT: 16.079 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL040872.D

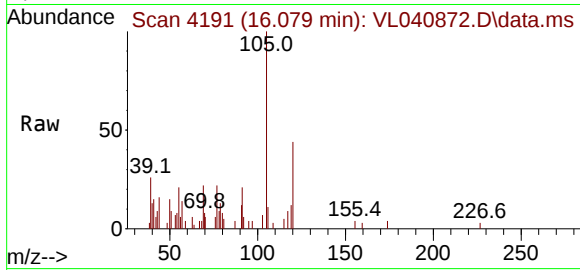
Acq: 15 Nov 2023 17:33

Instrument :

MSVOA_L

ClientSampleId :

NT-SS-6



Tgt Ion:105 Resp: 8779

Ion Ratio Lower Upper

105 100

120 47.2 40.2 60.2

91 27.8 45.7 68.5#

77 16.7 19.2 28.8#

