

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112024\
 Data File : VL041706.D
 Acq On : 20 Nov 2024 19:15
 Operator : SY/MD
 Sample : P4911-02DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 21 05:14:42 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Nov 08 01:01:00 2024
 Response via : Initial Calibration

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

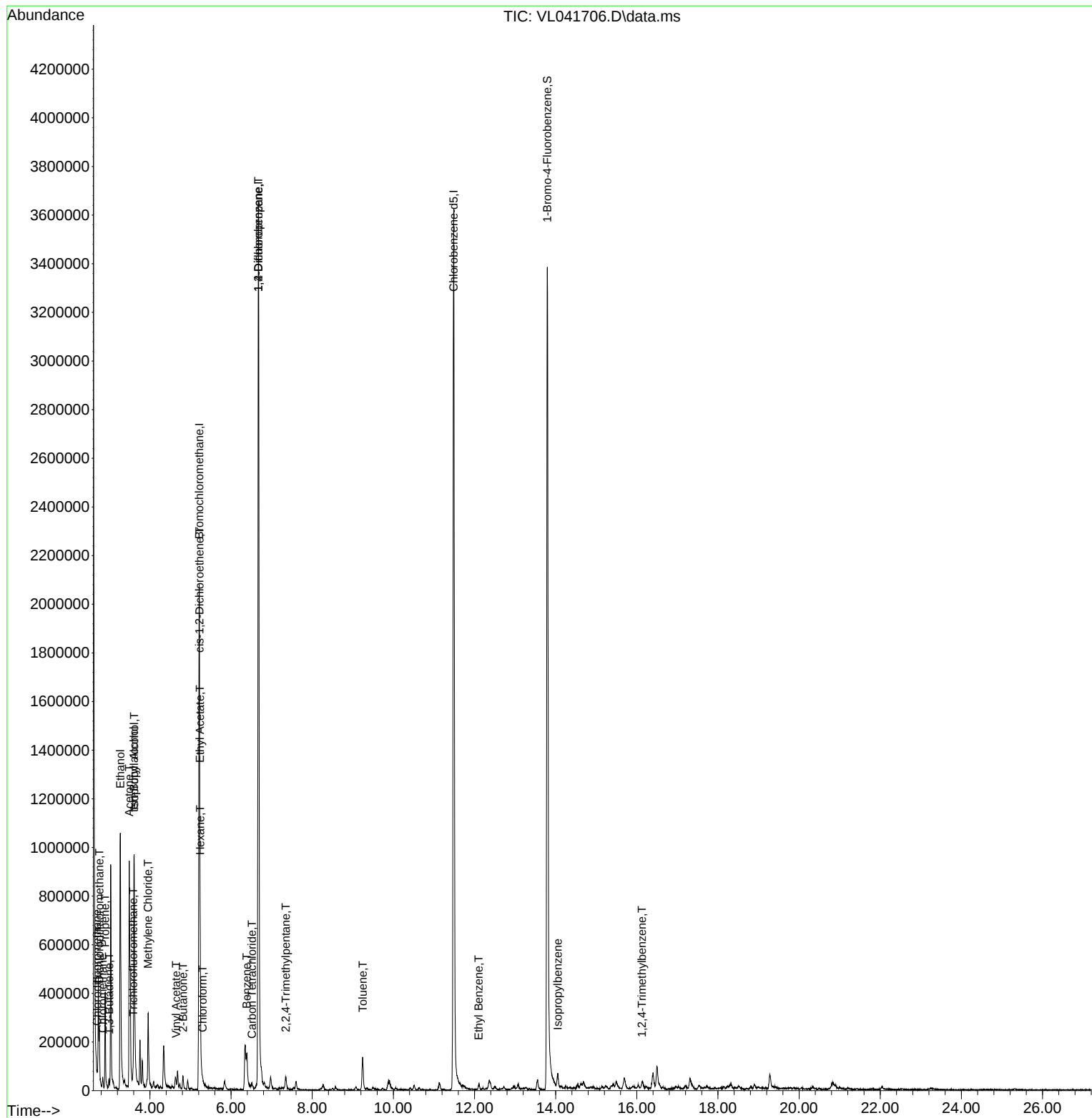
Internal Standards						
1) Bromochloromethane	5.214	49	985172	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	6.674	114	2701411	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.487	117	2316943	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.796	95	1672611	9.798	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.755	85	136866	0.769	ppbv	100
3) Chlorodifluoromethane	2.697	51	77486	0.604	ppbv #	80
4) Chloromethane	2.835	50	33829	0.498	ppbv	96
9) Propene	2.896	41	87405	1.563	ppbv	88
11) Trichlorofluoromethane	3.587	101	36382	0.235	ppbv	99
13) Ethanol	3.269	45	1051782	307.113	ppbv	99
15) Acetone	3.491	43	994871	8.205	ppbv	98
16) 1,3-Butadiene	2.992	39	10073	0.165	ppbv #	76
17) tert-Butyl alcohol	3.607	59	30641	0.288	ppbv	95
19) Isopropyl Alcohol	3.610	45	952581	16.437	ppbv	99
20) Methylene Chloride	3.954	84	100856	2.261	ppbv	94
23) Vinyl Acetate	4.648	43	4699	0.088	ppbv #	33
25) Ethyl Acetate	5.230	43	112770	0.449	ppbv #	90
26) Hexane	5.237	57	105301	1.092	ppbv #	44
29) Chloroform	5.298	83	6276	0.039	ppbv	98
31) cis-1,2-Dichloroethene	5.224	61	3194	0.034	ppbv #	41
34) 2-Butanone	4.816	43	56708	0.422	ppbv	99
35) Carbon Tetrachloride	6.516	117	4643	0.033	ppbv	95
36) Benzene	6.388	78	75939	0.379	ppbv	95
39) 1,2-Dichloropropane	6.674	63	662112	8.371	ppbv #	24
44) 2,2,4-Trimethylpentane	7.349	57	20583	0.061	ppbv #	1
53) Toluene	9.243	91	91299	0.434	ppbv	98
58) Ethyl Benzene	12.105	91	9233	0.036	ppbv	100
62) Isopropylbenzene	14.053	105	19927	0.059	ppbv #	49
74) 1,2,4-Trimethylbenzene	16.127	105	13785	0.054	ppbv #	70

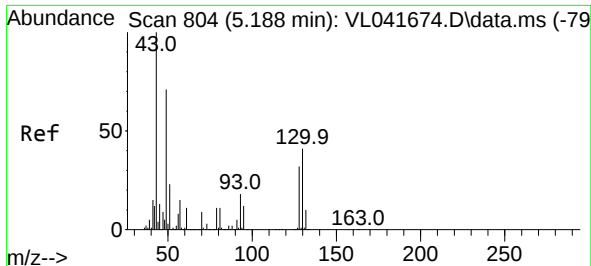
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112024\
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Instrument :
MSVOA_L
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
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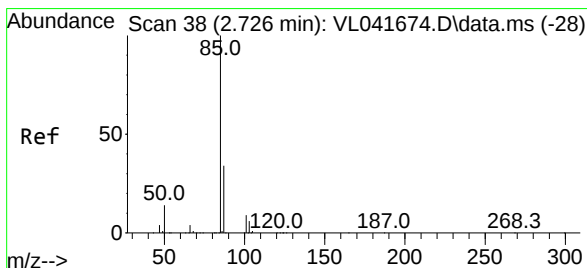
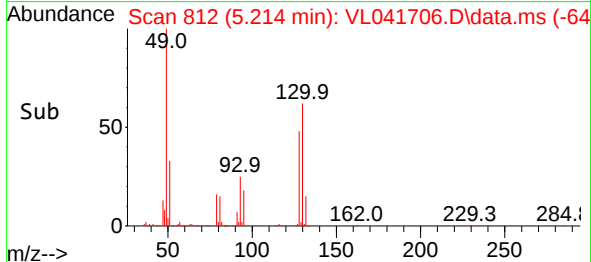
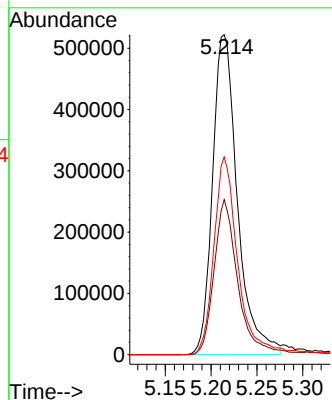
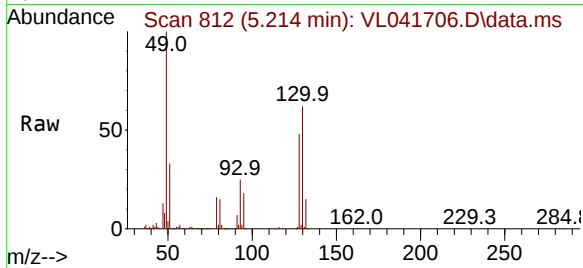




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.214 min Scan# 81
 Delta R.T. 0.026 min
 Lab File: VL041706.D
 Acq: 20 Nov 2024 19:15

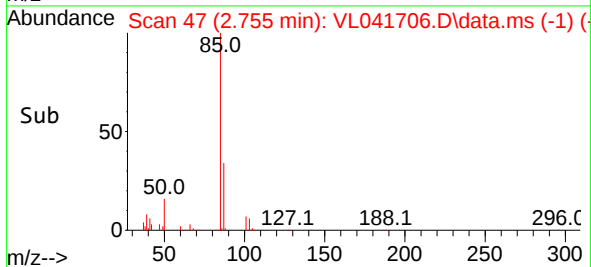
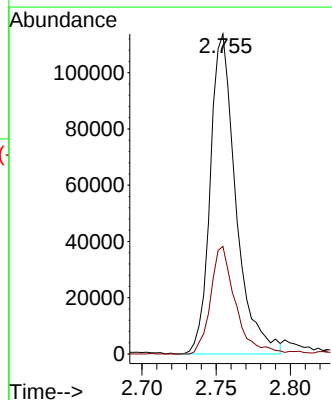
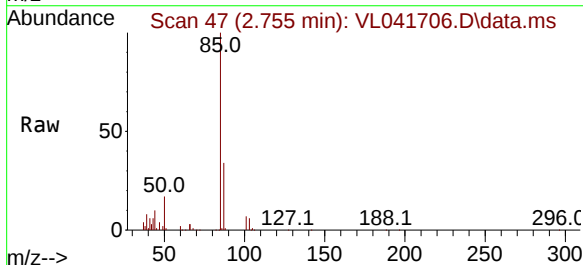
Instrument :
 MSVOA_L
 ClientSampleId :

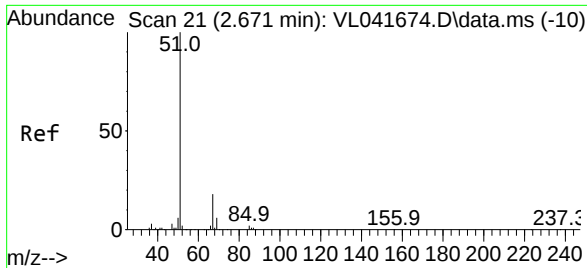
Tgt Ion: 49 Resp: 985172
 Ion Ratio Lower Upper
 49 100
 128 46.9 23.8 71.2
 130 60.5 30.1 90.5



#2
 Dichlorodifluoromethane
 Concen: 0.769 ppbv
 RT: 2.755 min Scan# 47
 Delta R.T. 0.029 min
 Lab File: VL041706.D
 Acq: 20 Nov 2024 19:15

Tgt Ion: 85 Resp: 136866
 Ion Ratio Lower Upper
 85 100
 87 33.6 26.8 40.2

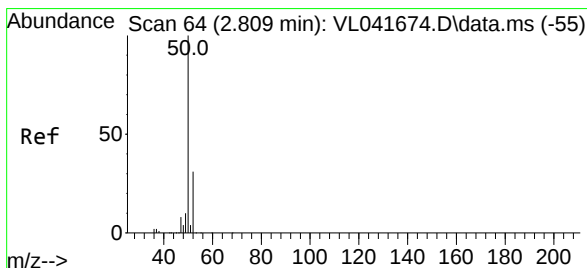
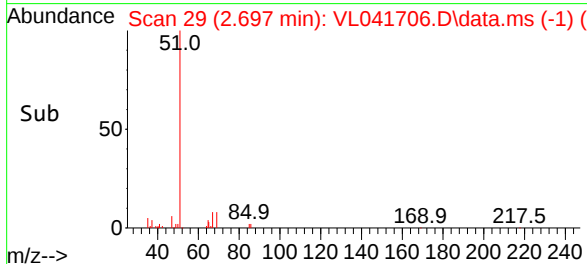
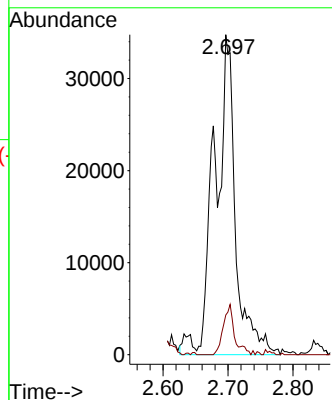
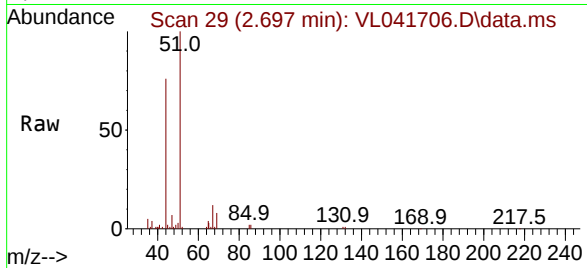




#3
Chlorodifluoromethane
Concen: 0.604 ppbv
RT: 2.697 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL041706.D
Acq: 20 Nov 2024 19:15

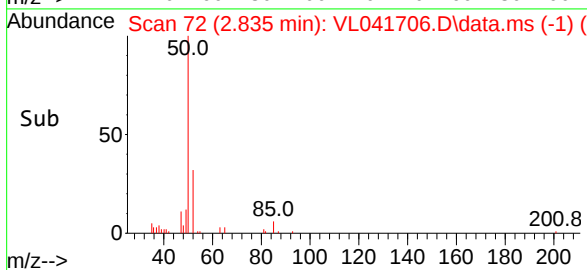
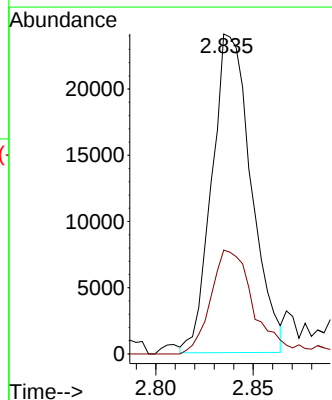
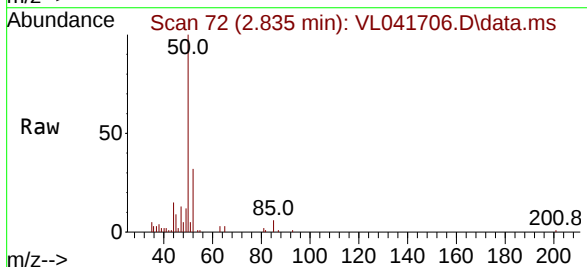
Instrument :
MSVOA_L
ClientSampleId :

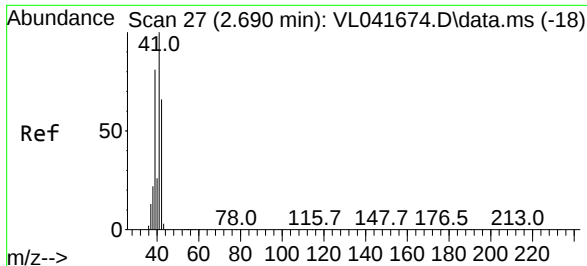
Tgt Ion: 51 Resp: 77486
Ion Ratio Lower Upper
51 100
67 8.5 13.9 20.9#



#4
Chloromethane
Concen: 0.498 ppbv
RT: 2.835 min Scan# 72
Delta R.T. 0.026 min
Lab File: VL041706.D
Acq: 20 Nov 2024 19:15

Tgt Ion: 50 Resp: 33829
Ion Ratio Lower Upper
50 100
52 33.5 24.9 37.3





#9

Propene

Concen: 1.563 ppbv

RT: 2.896 min Scan# 91

Delta R.T. 0.206 min

Lab File: VL041706.D

Acq: 20 Nov 2024 19:15

Instrument :

MSVOA_L

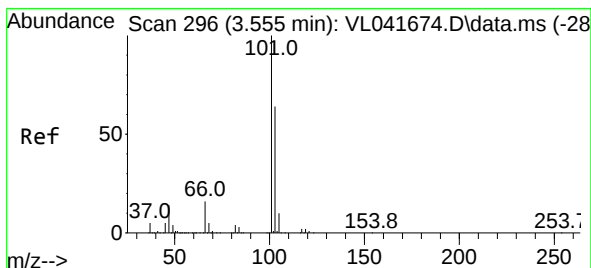
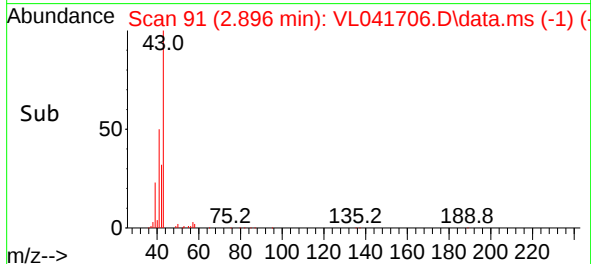
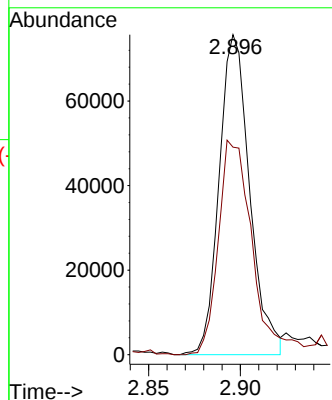
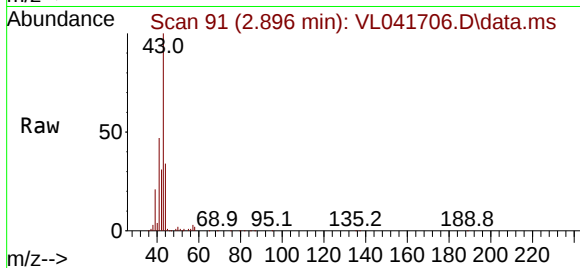
ClientSampleId :

Tgt Ion: 41 Resp: 87405

Ion Ratio Lower Upper

41 100

42 78.6 55.0 82.4



#11

Trichlorofluoromethane

Concen: 0.235 ppbv

RT: 3.587 min Scan# 306

Delta R.T. 0.032 min

Lab File: VL041706.D

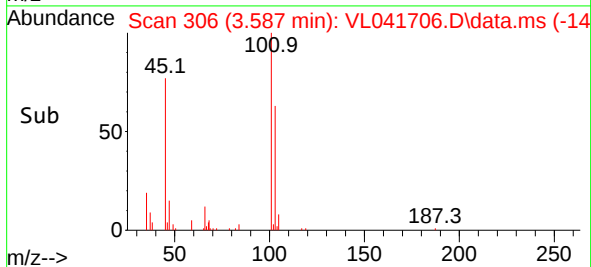
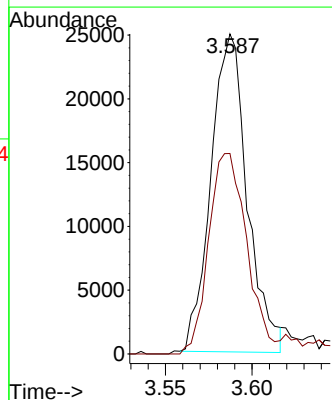
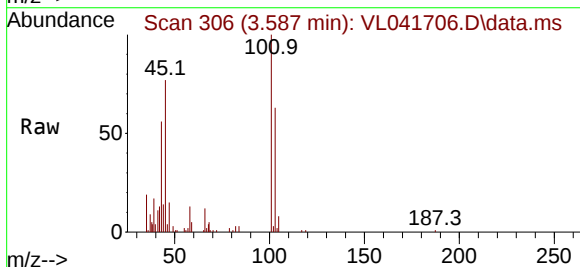
Acq: 20 Nov 2024 19:15

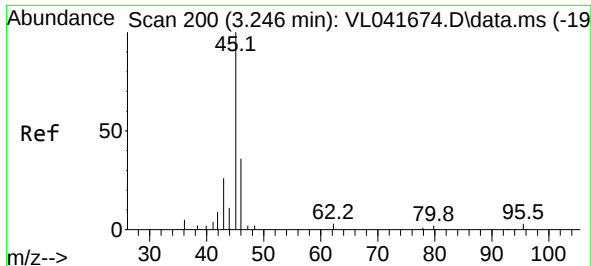
Tgt Ion: 101 Resp: 36382

Ion Ratio Lower Upper

101 100

103 63.2 51.0 76.6

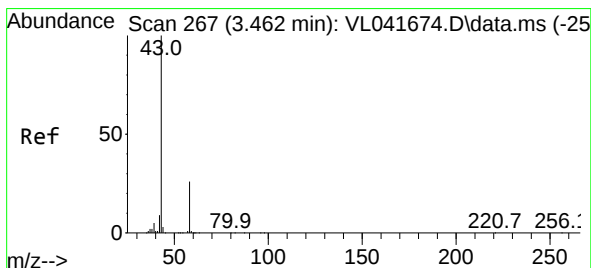
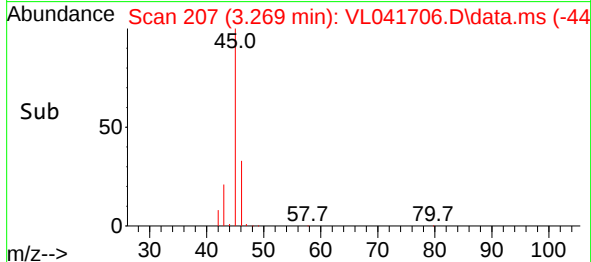
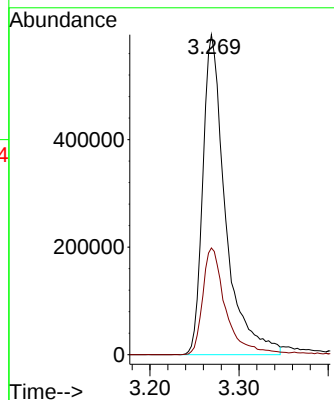
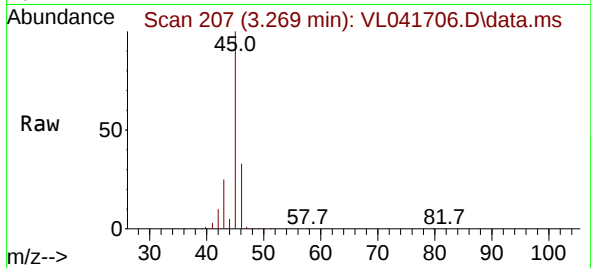




#13
Ethanol
Concen: 307.113 ppbv
RT: 3.269 min Scan# 207
Delta R.T. 0.023 min
Lab File: VL041706.D
Acq: 20 Nov 2024 19:15

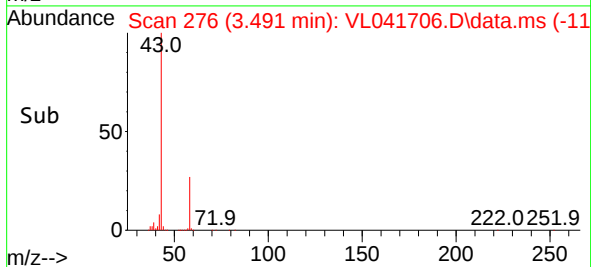
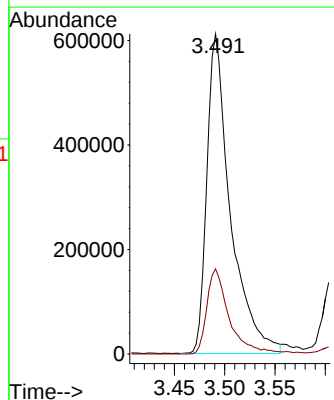
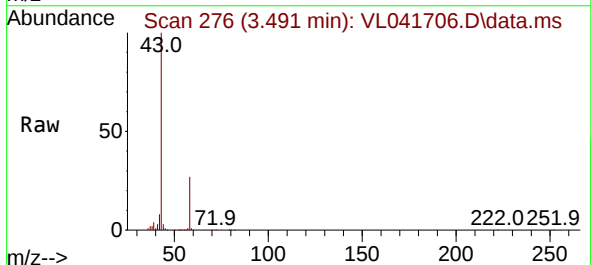
Instrument :
MSVOA_L
ClientSampleId :

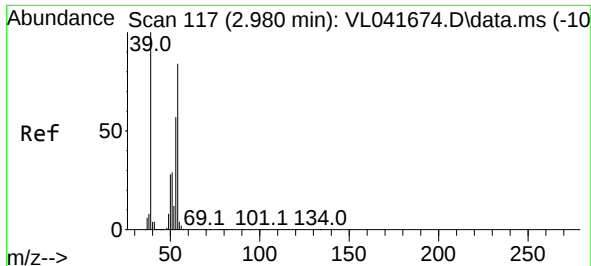
Tgt Ion: 45 Resp: 1051782
Ion Ratio Lower Upper
45 100
46 35.0 13.8 55.2



#15
Acetone
Concen: 8.205 ppbv
RT: 3.491 min Scan# 276
Delta R.T. 0.029 min
Lab File: VL041706.D
Acq: 20 Nov 2024 19:15

Tgt Ion: 43 Resp: 994871
Ion Ratio Lower Upper
43 100
58 25.6 21.4 32.0





#16

1,3-Butadiene

Concen: 0.165 ppbv

RT: 2.992 min Scan# 11

Delta R.T. 0.013 min

Lab File: VL041706.D

Acq: 20 Nov 2024 19:15

Instrument :

MSVOA_L

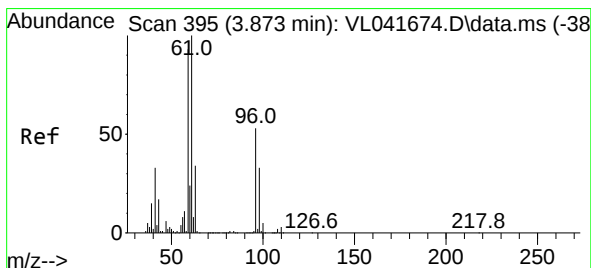
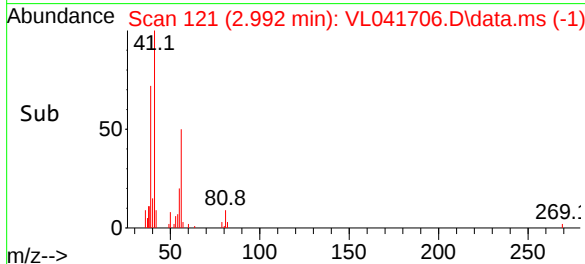
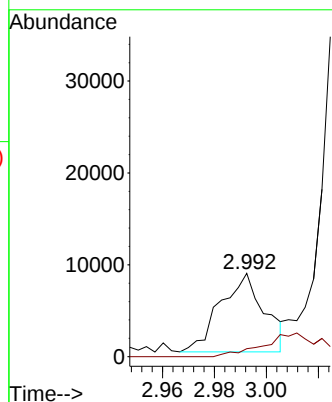
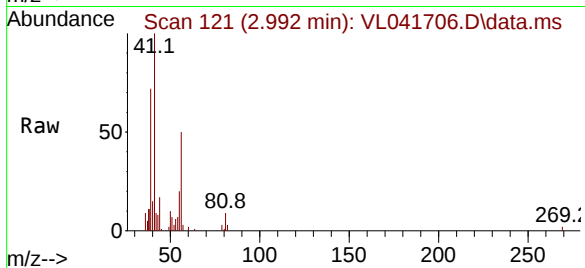
ClientSampleId :

Tgt Ion: 39 Resp: 10073

Ion Ratio Lower Upper

39 100

54 55.7 61.3 91.9#



#17

tert-Butyl alcohol

Concen: 0.288 ppbv

RT: 3.607 min Scan# 312

Delta R.T. -0.267 min

Lab File: VL041706.D

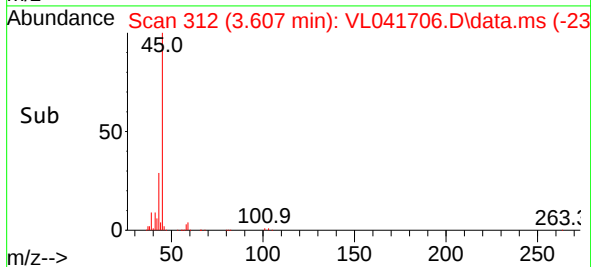
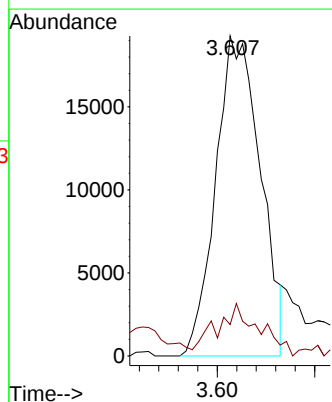
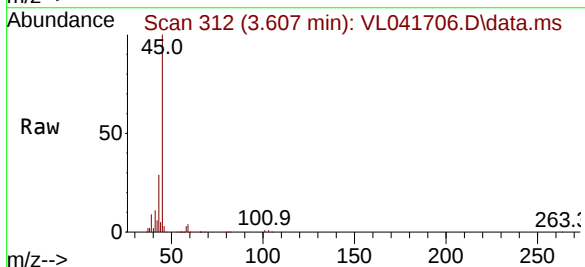
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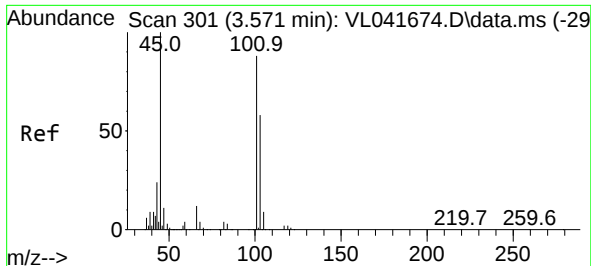
Tgt Ion: 59 Resp: 30641

Ion Ratio Lower Upper

59 100

57 12.6 8.5 12.7





#19

Isopropyl Alcohol

Concen: 16.437 ppbv

RT: 3.610 min Scan# 313

Delta R.T. 0.039 min

Lab File: VL041706.D

Acq: 20 Nov 2024 19:15

Instrument :

MSVOA_L

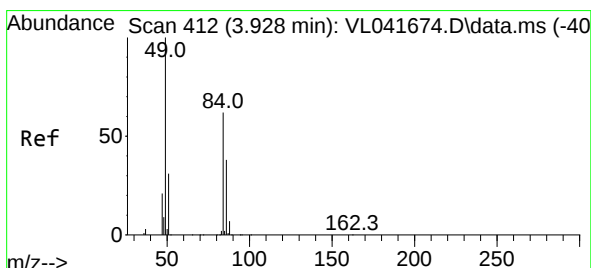
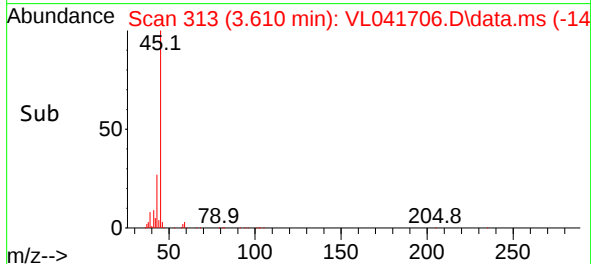
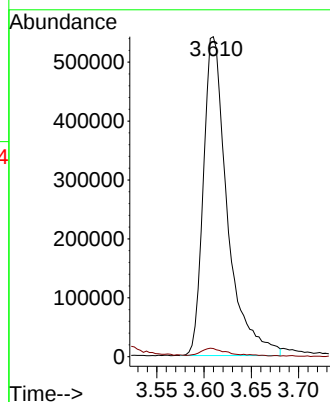
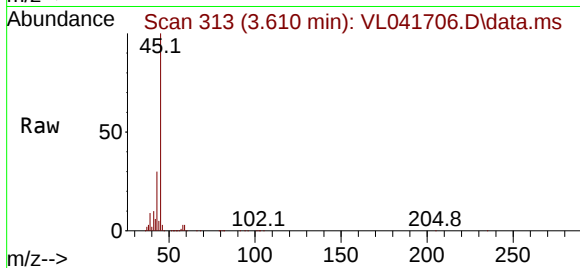
ClientSampleId :

Tgt Ion: 45 Resp: 952581

Ion Ratio Lower Upper

45 100

58 3.5 2.5 3.7



#20

Methylene Chloride

Concen: 2.261 ppbv

RT: 3.954 min Scan# 420

Delta R.T. 0.026 min

Lab File: VL041706.D

Acq: 20 Nov 2024 19:15

Tgt Ion: 84 Resp: 100856

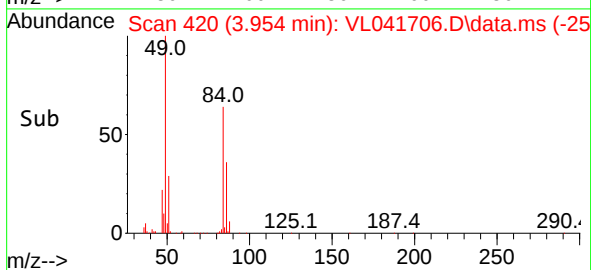
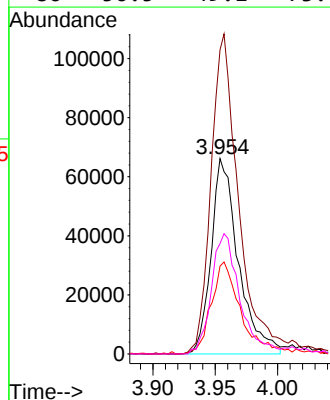
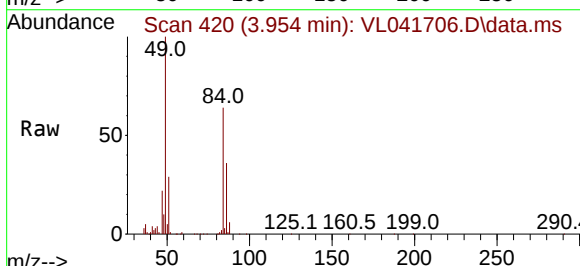
Ion Ratio Lower Upper

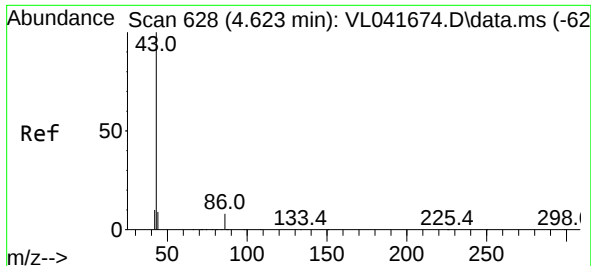
84 100

49 155.7 129.7 194.5

51 45.0 39.8 59.6

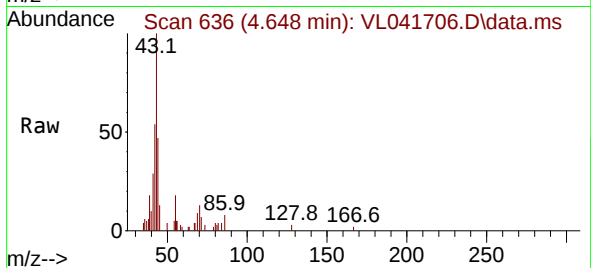
86 56.5 49.1 73.7





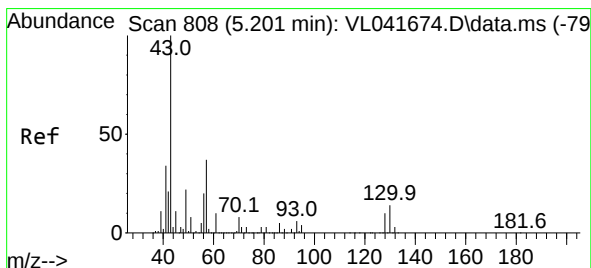
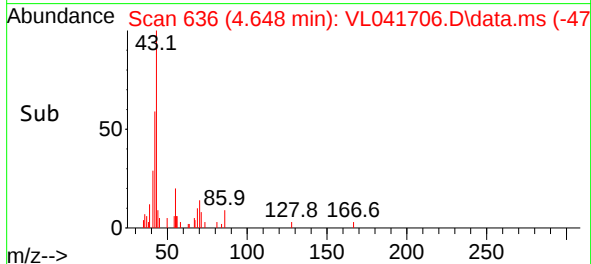
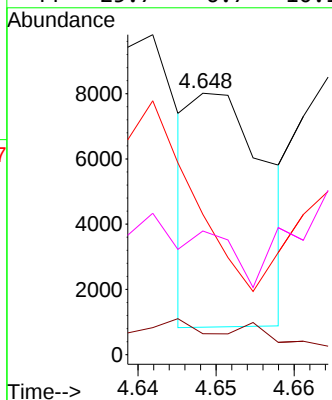
#23
Vinyl Acetate
Concen: 0.088 ppbv
RT: 4.648 min Scan# 61
Delta R.T. 0.026 min
Lab File: VL041706.D
Acq: 20 Nov 2024 19:15

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 43 Resp: 4699

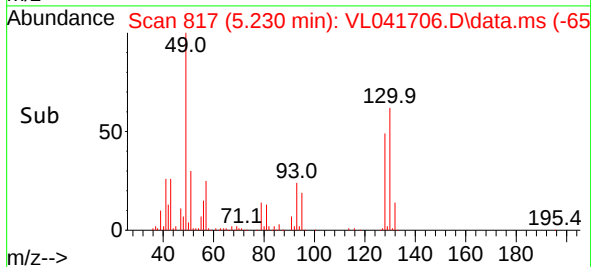
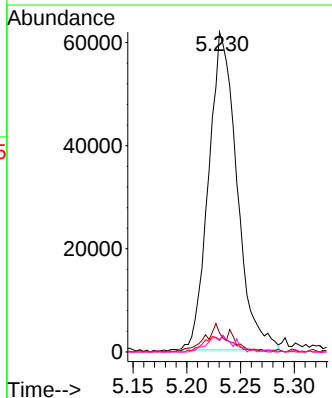
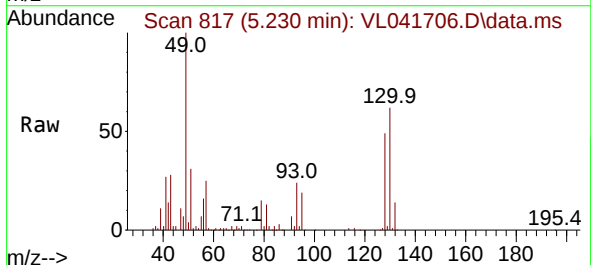
Ion	Ratio	Lower	Upper
43	100		
86	11.9	5.3	7.9#
42	53.3	8.5	12.7#
44	25.7	6.7	10.1#

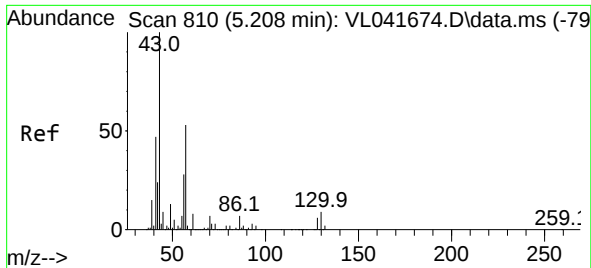


#25
Ethyl Acetate
Concen: 0.449 ppbv
RT: 5.230 min Scan# 817
Delta R.T. 0.029 min
Lab File: VL041706.D
Acq: 20 Nov 2024 19:15

Tgt Ion: 43 Resp: 112770

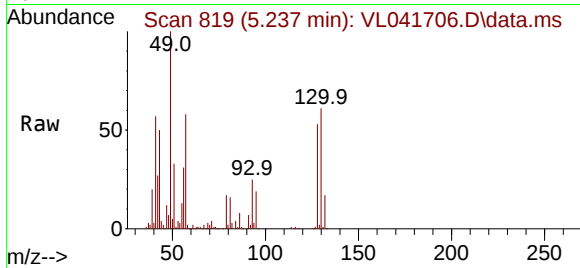
Ion	Ratio	Lower	Upper
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45	8.3	8.6	13.0#
61	5.3	8.4	12.6#
70	4.6	5.8	8.6#



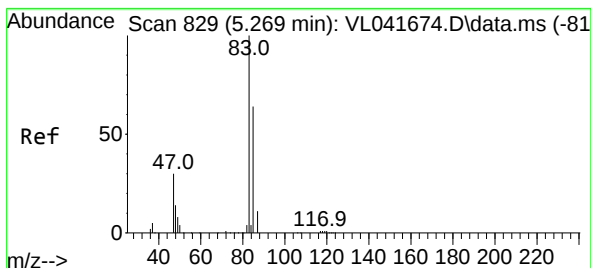
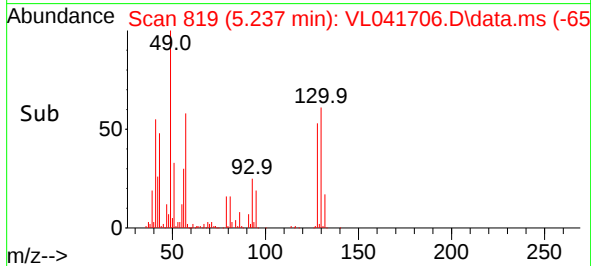
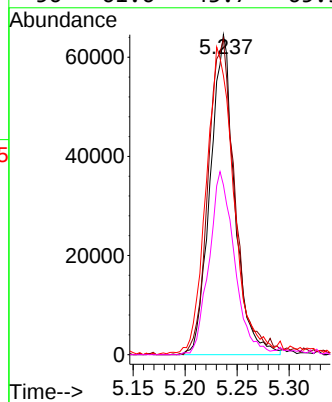


#26
Hexane
Concen: 1.092 ppbv
RT: 5.237 min Scan# 810
Delta R.T. 0.029 min
Lab File: VL041706.D
Acq: 20 Nov 2024 19:15

Instrument :
MSVOA_L
ClientSampleId :

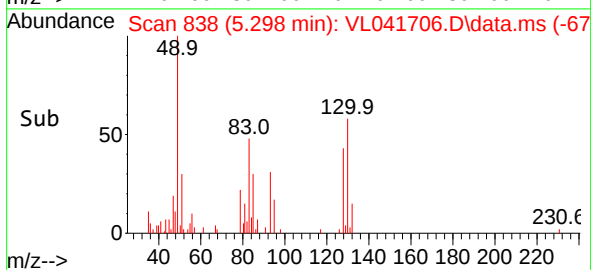
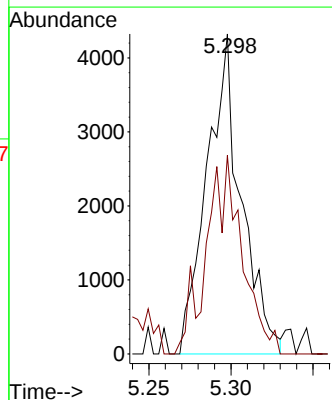
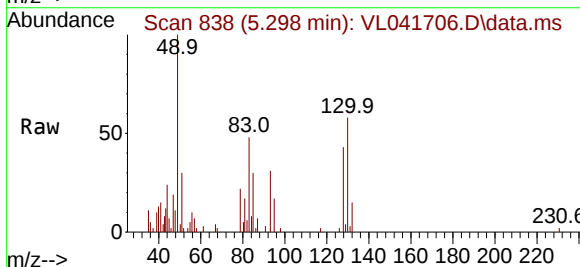


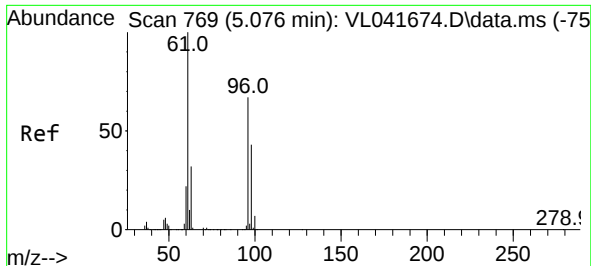
Tgt Ion: 57 Resp: 105301
Ion Ratio Lower Upper
57 100
41 109.9 76.1 114.1
43 113.9 207.0 310.6#
56 61.6 43.7 65.5



#29
Chloroform
Concen: 0.039 ppbv
RT: 5.298 min Scan# 838
Delta R.T. 0.029 min
Lab File: VL041706.D
Acq: 20 Nov 2024 19:15

Tgt Ion: 83 Resp: 6276
Ion Ratio Lower Upper
83 100
85 62.0 51.1 76.7





#31

cis-1,2-Dichloroethene

Concen: 0.034 ppbv

RT: 5.224 min Scan# 81

Delta R.T. 0.148 min

Lab File: VL041706.D

Acq: 20 Nov 2024 19:15

Instrument :

MSVOA_L

ClientSampleId :

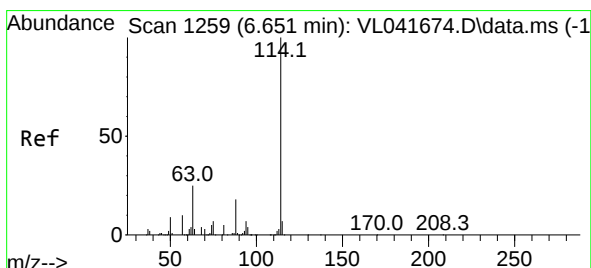
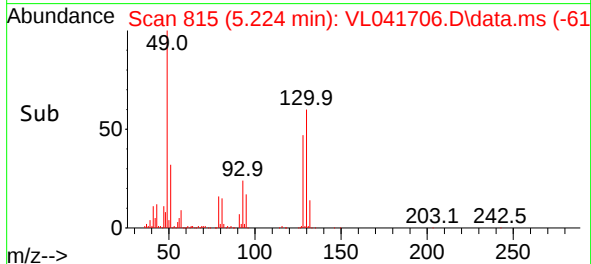
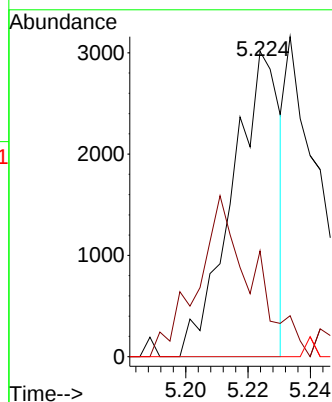
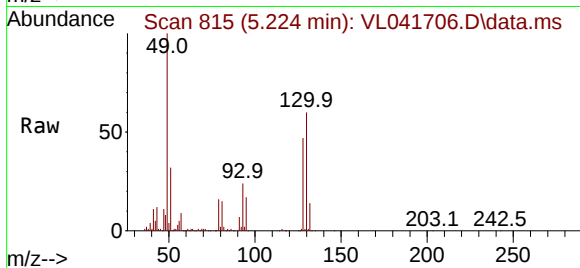
Tgt Ion: 61 Resp: 3194

Ion Ratio Lower Upper

61 100

96 23.8 53.4 80.2#

98 0.0 34.0 51.0#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.674 min Scan# 1266

Delta R.T. 0.023 min

Lab File: VL041706.D

Acq: 20 Nov 2024 19:15

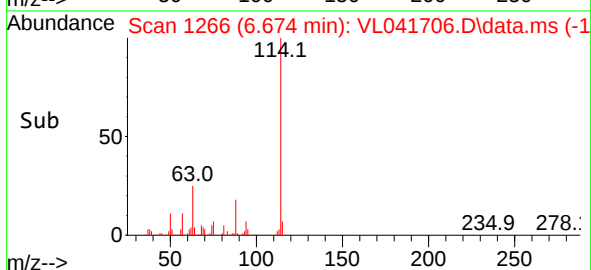
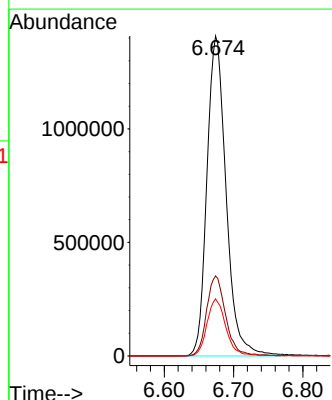
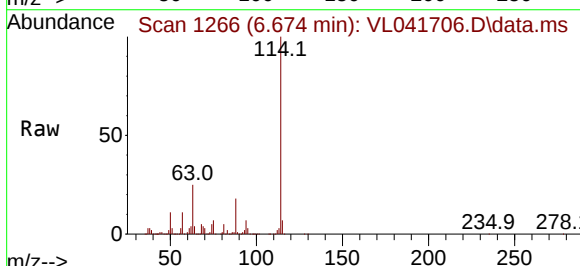
Tgt Ion: 114 Resp: 2701411

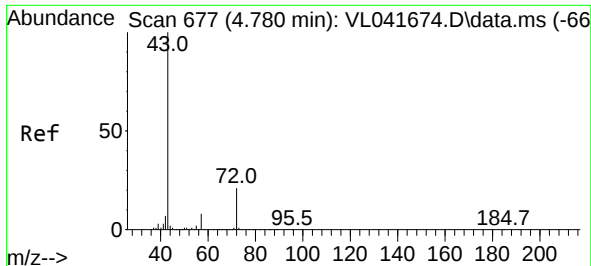
Ion Ratio Lower Upper

114 100

63 25.2 20.3 30.5

88 17.7 14.2 21.4

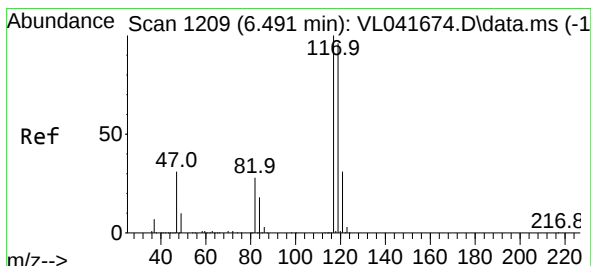
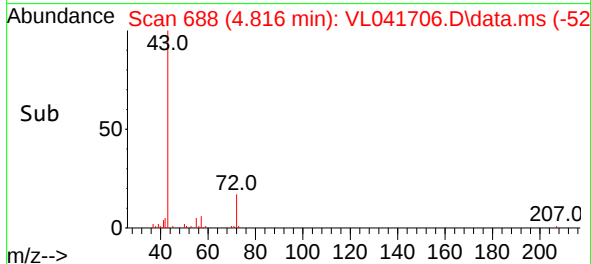
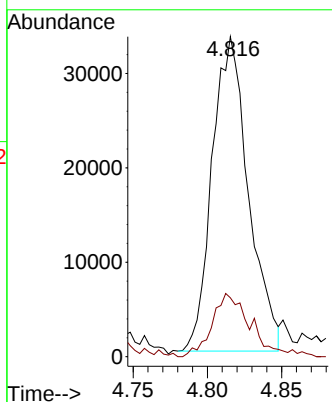
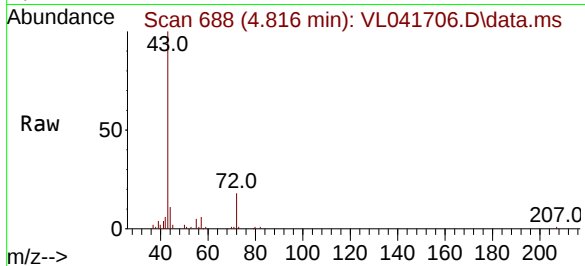




#34
2-Butanone
Concen: 0.422 ppbv
RT: 4.816 min Scan# 61
Delta R.T. 0.035 min
Lab File: VL041706.D
Acq: 20 Nov 2024 19:15

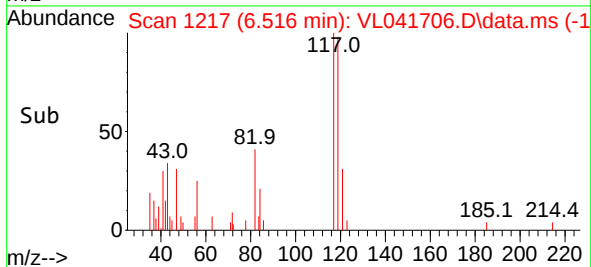
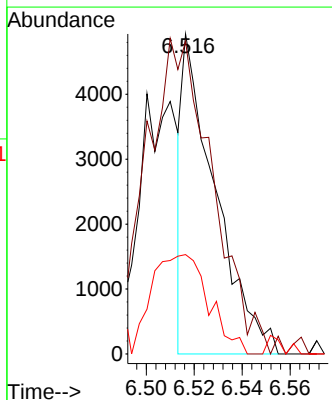
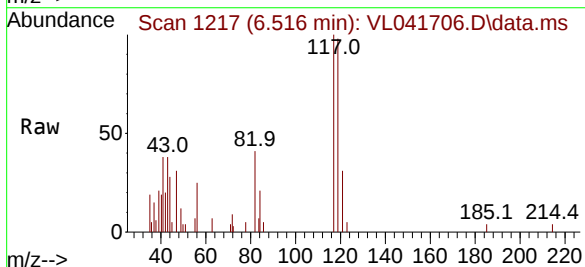
Instrument :
MSVOA_L
ClientSampleId :

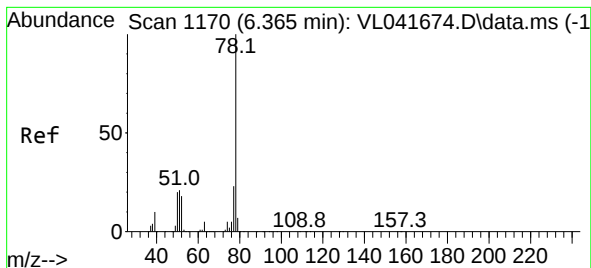
Tgt Ion: 43 Resp: 56708
Ion Ratio Lower Upper
43 100
72 21.9 17.4 26.0



#35
Carbon Tetrachloride
Concen: 0.033 ppbv
RT: 6.516 min Scan# 1217
Delta R.T. 0.026 min
Lab File: VL041706.D
Acq: 20 Nov 2024 19:15

Tgt Ion: 117 Resp: 4643
Ion Ratio Lower Upper
117 100
119 92.2 77.2 115.8
121 26.7 25.0 37.4





#36

Benzene

Concen: 0.379 ppbv

RT: 6.388 min Scan# 1177

Delta R.T. 0.023 min

Lab File: VL041706.D

Acq: 20 Nov 2024 19:15

Instrument :

MSVOA_L

ClientSampleId :

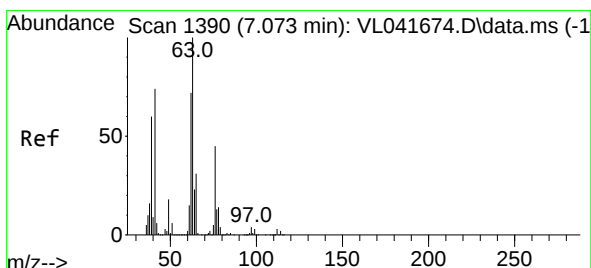
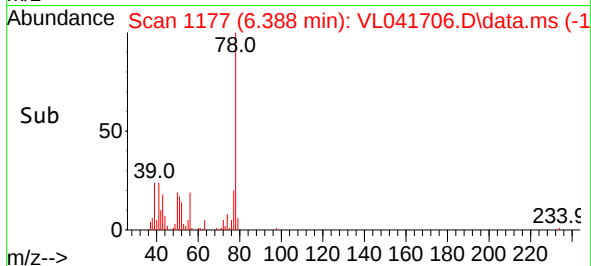
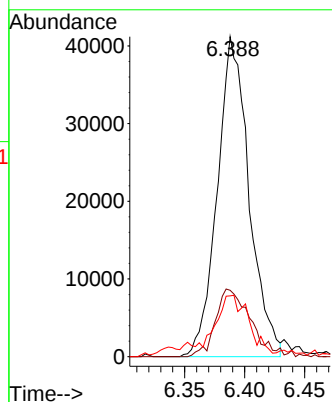
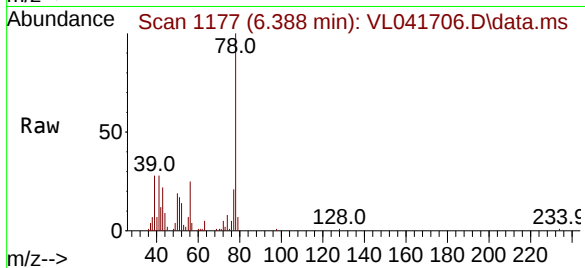
Tgt Ion: 78 Resp: 75939

Ion Ratio Lower Upper

78 100

77 20.7 18.5 27.7

50 17.2 15.6 23.4



#39

1,2-Dichloropropane

Concen: 8.371 ppbv

RT: 6.674 min Scan# 1266

Delta R.T. -0.399 min

Lab File: VL041706.D

Acq: 20 Nov 2024 19:15

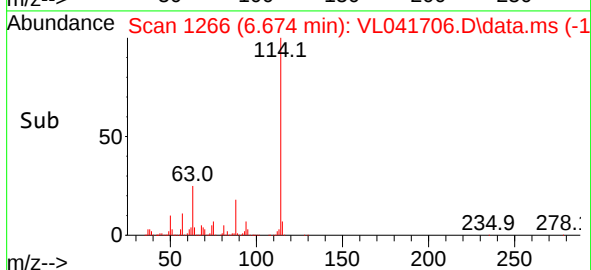
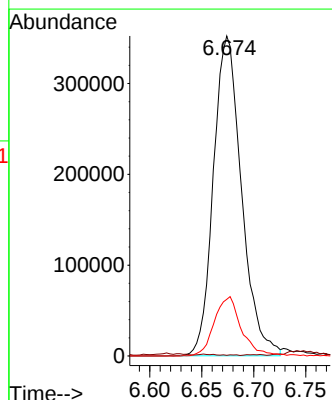
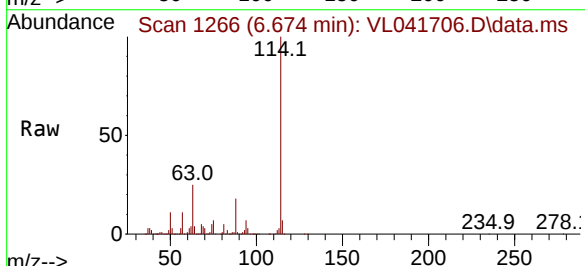
Tgt Ion: 63 Resp: 662112

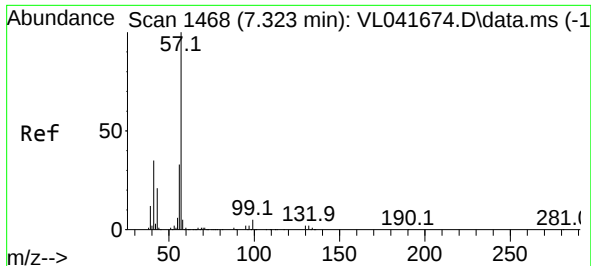
Ion Ratio Lower Upper

63 100

41 0.0 59.1 88.7#

62 17.7 57.7 86.5#

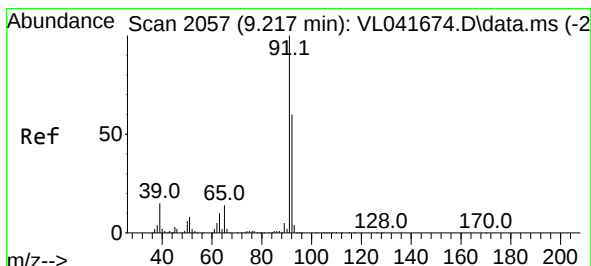
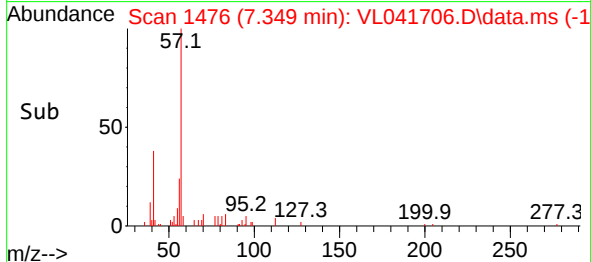
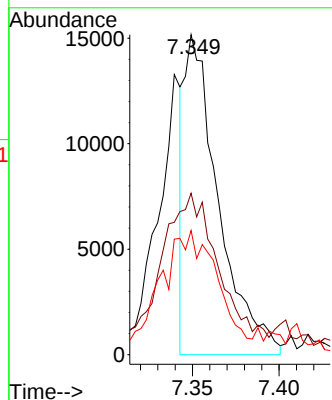
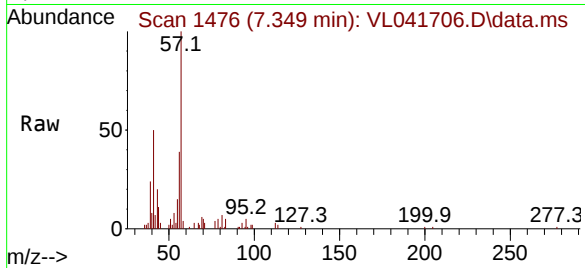




#44
 2,2,4-Trimethylpentane
 Concen: 0.061 ppbv
 RT: 7.349 min Scan# 1468
 Delta R.T. 0.026 min
 Lab File: VL041706.D
 Acq: 20 Nov 2024 19:15

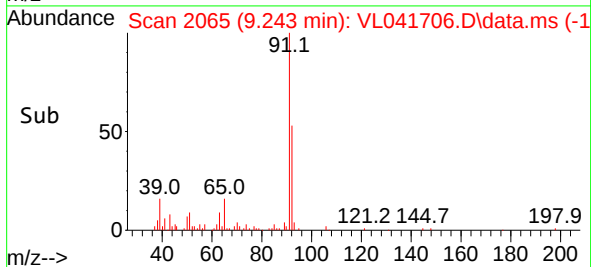
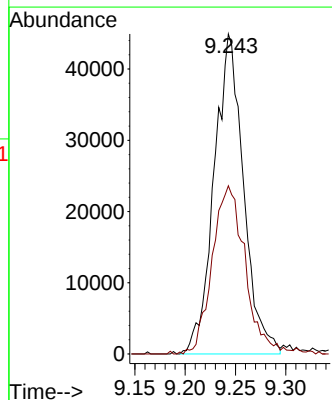
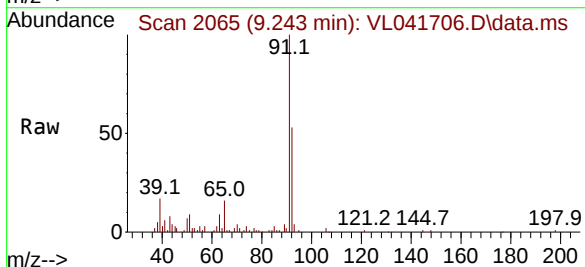
Instrument :
 MSVOA_L
 ClientSampleId :

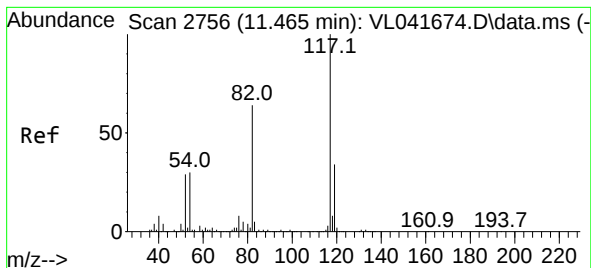
Tgt Ion: 57 Resp: 20583
 Ion Ratio Lower Upper
 57 100
 41 106.1 27.0 40.6#
 56 76.6 25.8 38.6#



#53
 Toluene
 Concen: 0.434 ppbv
 RT: 9.243 min Scan# 2065
 Delta R.T. 0.026 min
 Lab File: VL041706.D
 Acq: 20 Nov 2024 19:15

Tgt Ion: 91 Resp: 91299
 Ion Ratio Lower Upper
 91 100
 92 59.4 49.0 73.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.487 min Scan# 21

Delta R.T. 0.023 min

Lab File: VL041706.D

Acq: 20 Nov 2024 19:15

Instrument :

MSVOA_L

ClientSampleId :

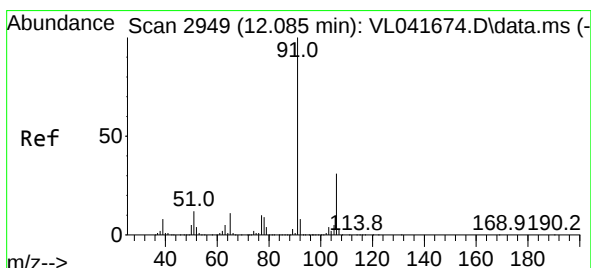
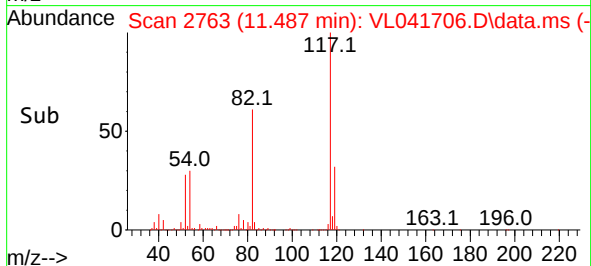
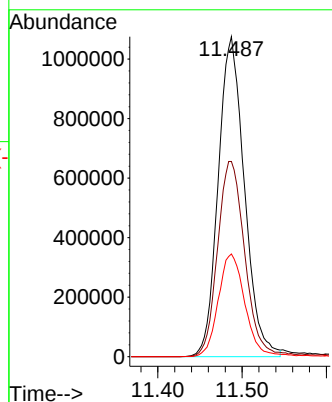
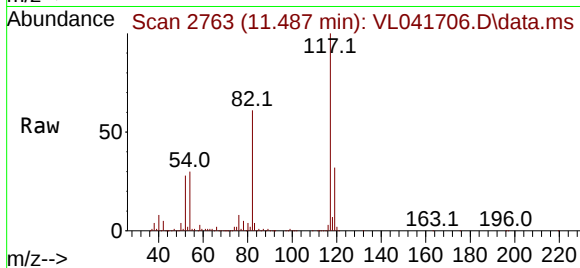
Tgt Ion:117 Resp: 2316943

Ion Ratio Lower Upper

117 100

82 65.0 49.8 74.8

119 33.3 24.2 36.4



#58

Ethyl Benzene

Concen: 0.036 ppbv

RT: 12.105 min Scan# 2955

Delta R.T. 0.019 min

Lab File: VL041706.D

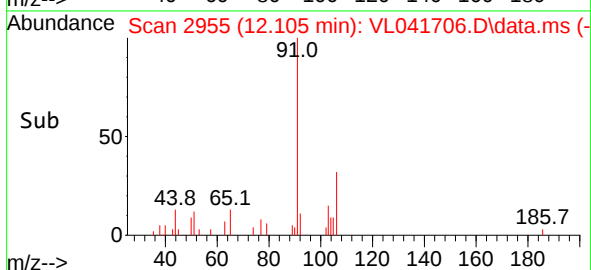
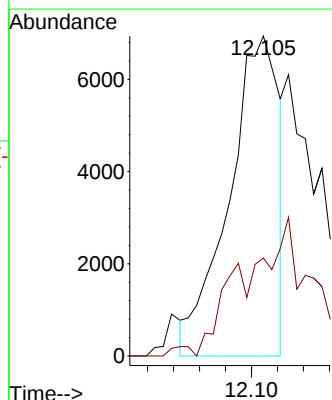
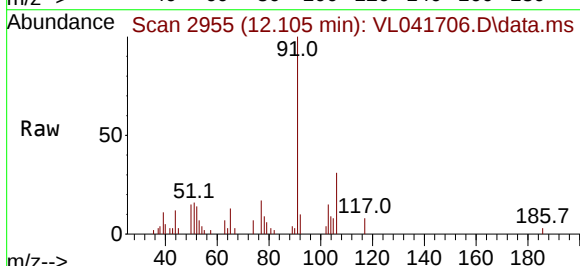
Acq: 20 Nov 2024 19:15

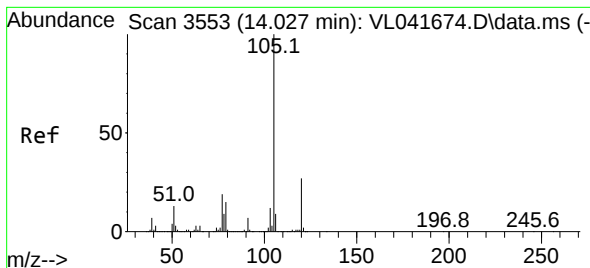
Tgt Ion: 91 Resp: 9233

Ion Ratio Lower Upper

91 100

106 31.2 24.9 37.3





#62

Isopropylbenzene

Concen: 0.059 ppbv

RT: 14.053 min Scan# 31

Delta R.T. 0.026 min

Lab File: VL041706.D

Acq: 20 Nov 2024 19:15

Instrument :

MSVOA_L

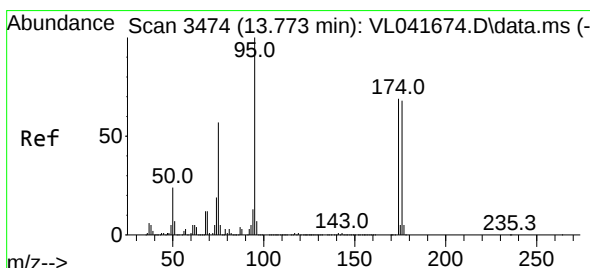
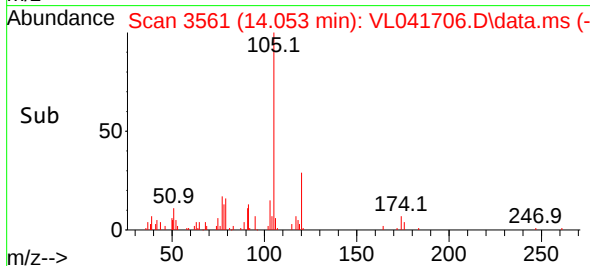
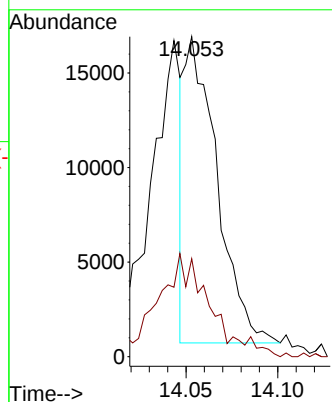
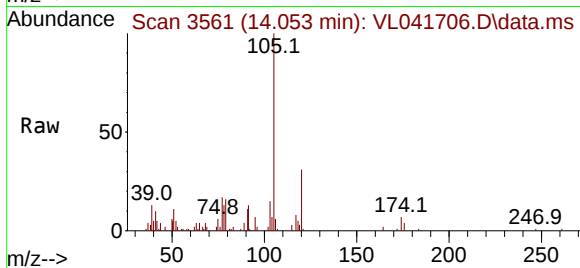
ClientSampleId :

Tgt Ion:105 Resp: 19927

Ion Ratio Lower Upper

105 100

120 0.0 21.1 31.7#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.798 ppbv

RT: 13.796 min Scan# 3481

Delta R.T. 0.023 min

Lab File: VL041706.D

Acq: 20 Nov 2024 19:15

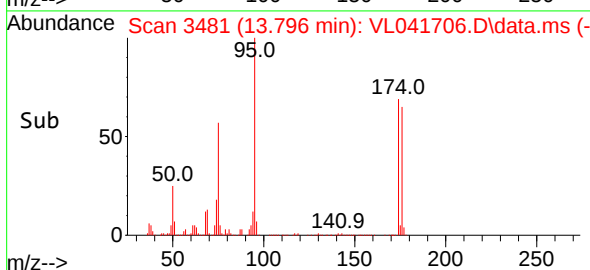
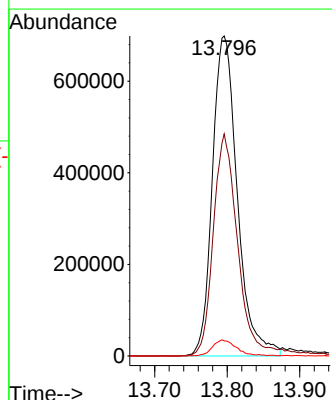
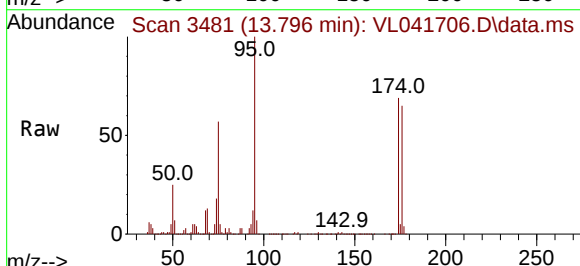
Tgt Ion: 95 Resp: 1672611

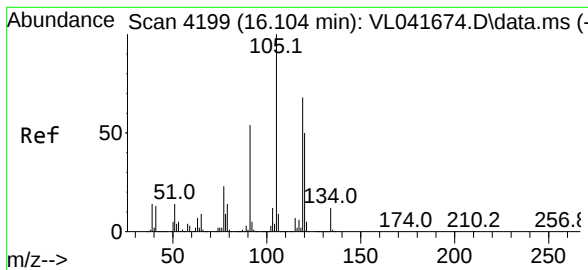
Ion Ratio Lower Upper

95 100

174 69.8 55.6 83.4

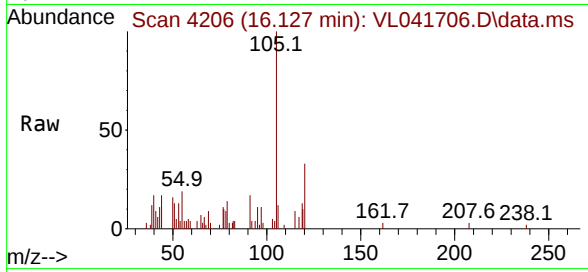
175 5.0 4.2 6.2





#74
 1,2,4-Trimethylbenzene
 Concen: 0.054 ppbv
 RT: 16.127 min Scan# 4199
 Delta R.T. 0.023 min
 Lab File: VL041706.D
 Acq: 20 Nov 2024 19:15

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion:	105	Resp:	13785
Ion	Ratio	Lower	Upper
105	100		
120	40.7	39.8	59.8
91	14.1	43.2	64.8#
77	19.3	18.5	27.7

