

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011923\
 Data File : VL040124.D
 Acq On : 19 Jan 2023 22:04
 Operator : SY/MD
 Sample : 01223-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-4

Quant Time: Jan 20 02:10:49 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Jan 16 14:40:47 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.211	49	980930	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	6.677	114	2622299	10.000	ppbv	0.03
55) Chlorobenzene-d5	11.500	117	2404734	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.809	95	1913287	9.573	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.729	85	75681	0.440	ppbv	97
3) Chlorodifluoromethane	2.677	51	43599	0.371	ppbv #	79
4) Chloromethane	2.816	50	39236	0.540	ppbv	95
6) Bromomethane	3.121	94	3132	0.139	ppbv #	78
7) Chloroethane	3.205	64	925	0.039	ppbv	97
9) Propene	2.693	41	4738828	96.941	ppbv	97
10) Heptane	7.603	43	326894	2.901	ppbv	99
11) Trichlorofluoromethane	3.571	101	44114	0.257	ppbv	97
13) Ethanol	3.247	45	925878	205.782	ppbv	98
15) Acetone	3.472	43	10646125	90.495	ppbv #	82
16) 1,3-Butadiene	2.983	39	1043133	19.019	ppbv #	79
17) tert-Butyl alcohol	3.899	59	178928	1.633	ppbv	97
19) Isopropyl Alcohol	3.591	45	365716	6.354	ppbv #	90
20) Methylene Chloride	3.944	84	3079119	59.326	ppbv	97
21) Allyl Chloride	3.996	41	84419	1.118	ppbv #	1
23) Vinyl Acetate	4.623	43	140788	3.692	ppbv #	12
24) 1,1-Dichloroethane	4.697	63	7360	0.064	ppbv #	90
25) Ethyl Acetate	5.227	43	2097484	10.120	ppbv #	82
26) Hexane	5.230	57	2483642	27.383	ppbv #	42
27) Carbon Disulfide	4.134	76	276364	2.352	ppbv	99
30) Cyclohexane	6.626	84	63322	0.878	ppbv	91
32) 1,1,1-Trichloroethane	6.028	97	20769	0.141	ppbv #	80
34) 2-Butanone	4.800	43	6039279	48.689	ppbv	98
36) Benzene	6.394	78	3108525	16.019	ppbv	98
39) 1,2-Dichloropropane	6.677	63	631570	8.321	ppbv #	24
41) Tetrahydrofuran	5.574	42	691319	9.656	ppbv	98
43) Methyl Methacrylate	7.500	69	32511	0.457	ppbv #	81
44) 2,2,4-Trimethylpentane	7.349	57	103238	0.320	ppbv #	42
50) 4-Methyl-2-Pentanone	8.214	43	127003	0.651	ppbv	97
51) 2-Hexanone	9.574	43	373032	2.524	ppbv #	84
52) Tetrachloroethene	10.664	164	4177	0.066	ppbv #	72
53) Toluene	9.249	91	2304816	11.136	ppbv	98
57) Chlorobenzene	11.561	112	6896	0.042	ppbv #	25
58) Ethyl Benzene	12.121	91	1351138	5.035	ppbv	100
59) m/p-Xylene	12.378	91	3015903	12.499	ppbv	92
60) o-Xylene	13.089	91	846091	3.694	ppbv	97
61) Styrene	12.931	104	35290	0.296	ppbv #	47
62) Isopropylbenzene	14.063	105	78702	0.239	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.073	83	7459	0.090	ppbv #	24
64) n-propylbenzene	14.947	120	34152	0.417	ppbv	97
65) tert-Butylbenzene	16.137	119	62599	0.222	ppbv #	76
67) sec-Butylbenzene	16.680	105	12168	0.030	ppbv #	1
69) p-Isopropyltoluene	17.034	119	19215	0.061	ppbv #	92

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Data File : VL040124.D
Acq On : 19 Jan 2023 22:04
Operator : SY/MD
Sample : 01223-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

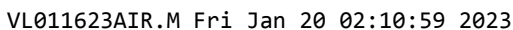
Instrument :
MSVOA_L
ClientSampleId :
VP-4

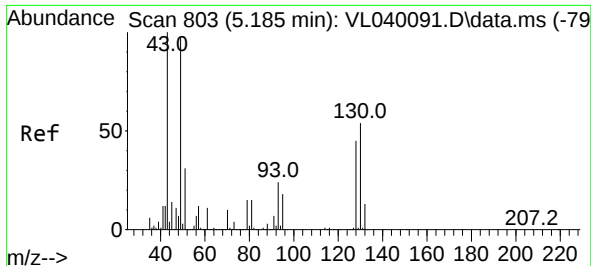
Quant Time: Jan 20 02:10:49 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Mon Jan 16 14:40:47 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) n-Butylbenzene	17.931	91	25274	0.075	ppbv #	1
72) 4-Ethyltoluene	15.227	105	179261	0.705	ppbv	96
73) 1,3,5-Trimethylbenzene	15.388	105	160752	0.702	ppbv	97
74) 1,2,4-Trimethylbenzene	16.137	105	547346	2.159	ppbv #	69
79) Naphthalene	21.429	128	60953	0.420	ppbv	97
80) Naphthalene,2-methyl-	24.480	142	2164	0.044	ppbv #	48

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

Quant Time: Jan 20 02:10:49 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Mon Jan 16 14:40:47 2023
Response via : Initial Calibration

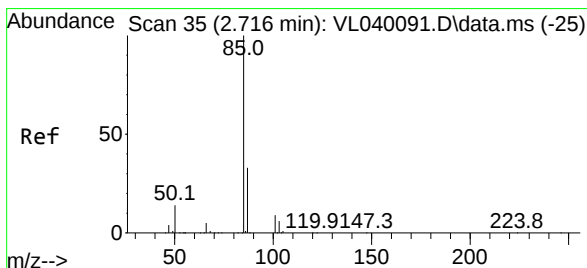
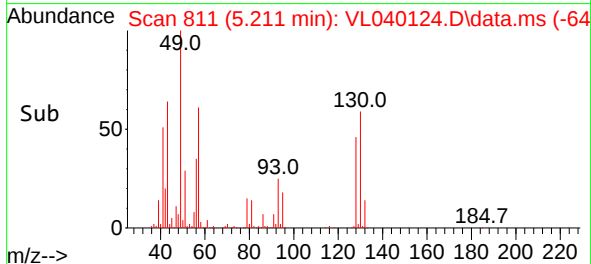
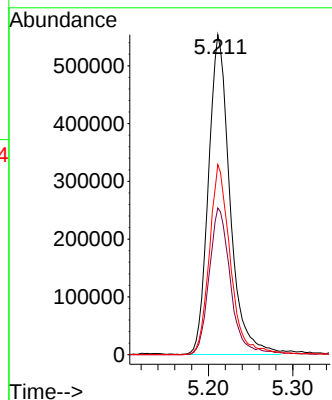
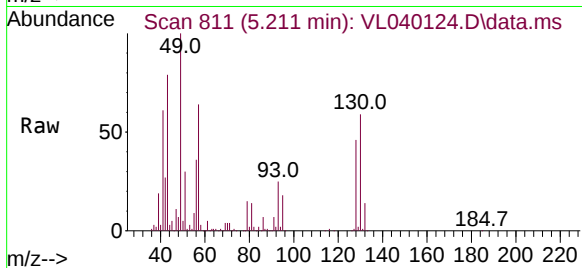




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.211 min Scan# 81
 Delta R.T. 0.026 min
 Lab File: VL040124.D
 Acq: 19 Jan 2023 22:04

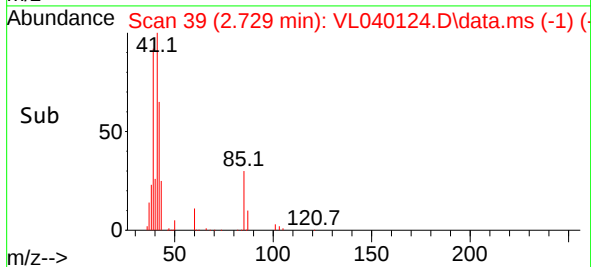
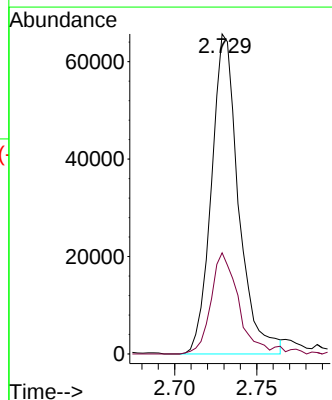
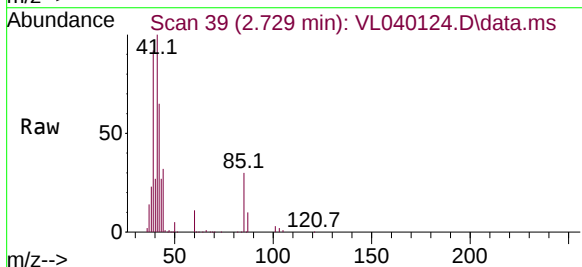
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-4

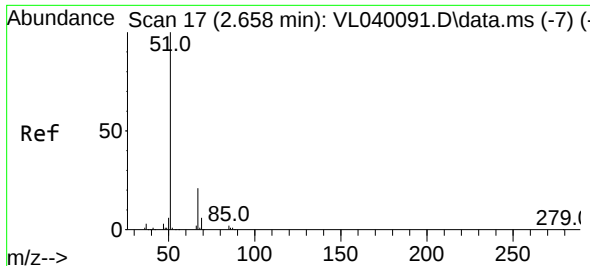
Tgt Ion: 49 Resp: 980930
 Ion Ratio Lower Upper
 49 100
 128 46.3 23.6 71.0
 130 58.4 29.8 89.3



#2
 Dichlorodifluoromethane
 Concen: 0.440 ppbv
 RT: 2.729 min Scan# 39
 Delta R.T. 0.013 min
 Lab File: VL040124.D
 Acq: 19 Jan 2023 22:04

Tgt Ion: 85 Resp: 75681
 Ion Ratio Lower Upper
 85 100
 87 31.6 26.5 39.7

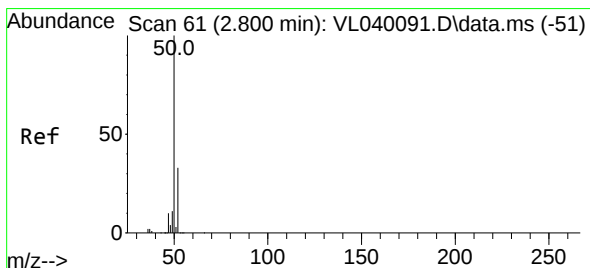
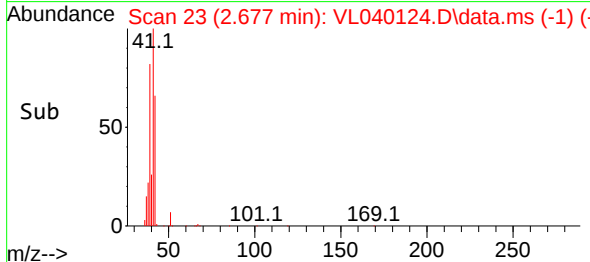
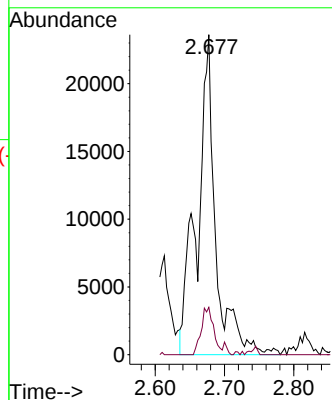
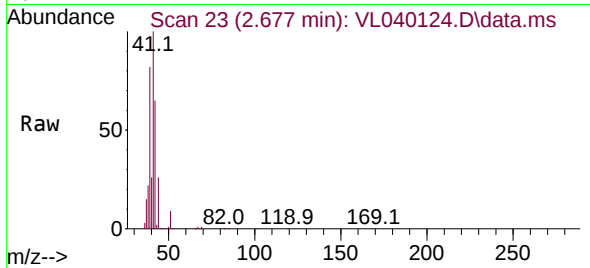




#3
Chlorodifluoromethane
Concen: 0.371 ppbv
RT: 2.677 min Scan# 21
Delta R.T. 0.019 min
Lab File: VL040124.D
Acq: 19 Jan 2023 22:04

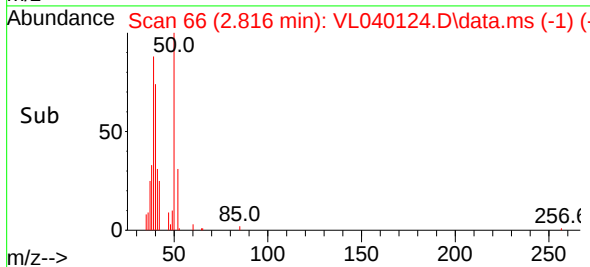
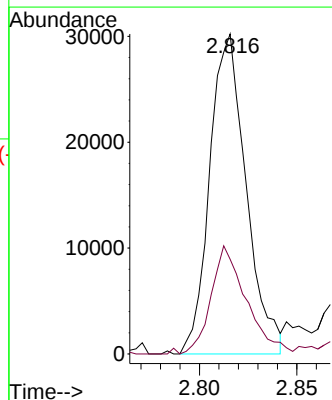
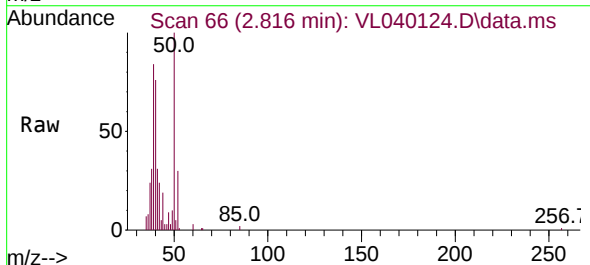
Instrument :
MSVOA_L
ClientSampleId :
VP-4

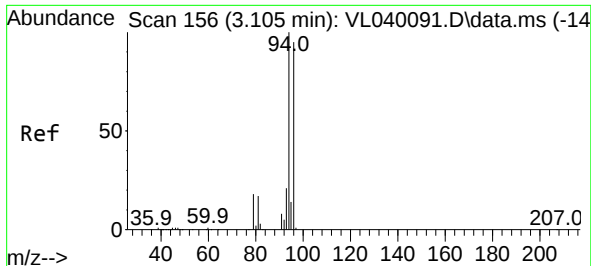
Tgt Ion: 51 Resp: 43599
Ion Ratio Lower Upper
51 100
67 10.9 16.4 24.6#



#4
Chloromethane
Concen: 0.540 ppbv
RT: 2.816 min Scan# 66
Delta R.T. 0.016 min
Lab File: VL040124.D
Acq: 19 Jan 2023 22:04

Tgt Ion: 50 Resp: 39236
Ion Ratio Lower Upper
50 100
52 30.1 26.5 39.7

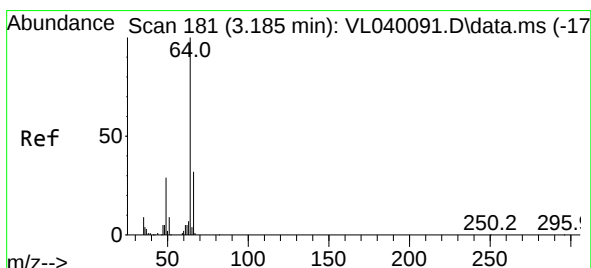
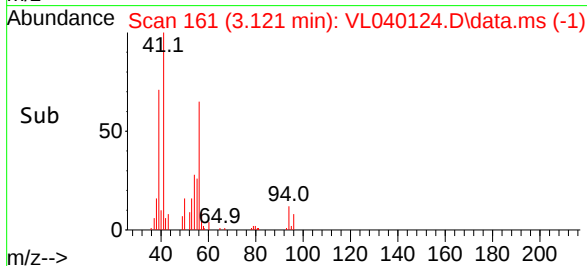
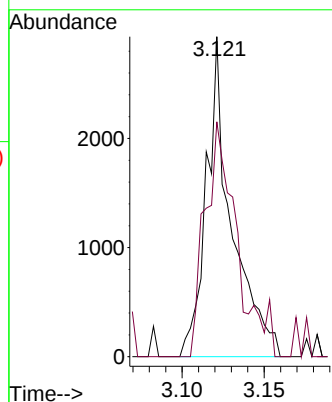
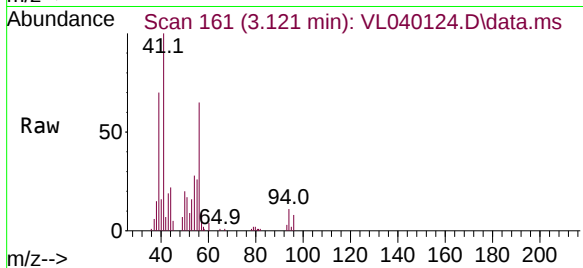




#6
Bromomethane
Concen: 0.139 ppbv
RT: 3.121 min Scan# 1
Delta R.T. 0.016 min
Lab File: VL040124.D
Acq: 19 Jan 2023 22:04

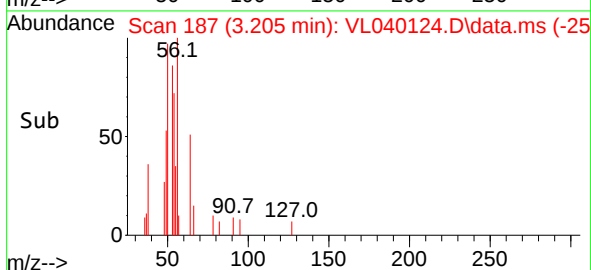
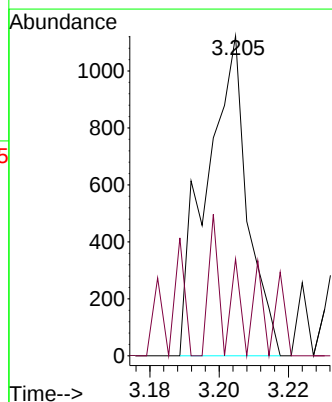
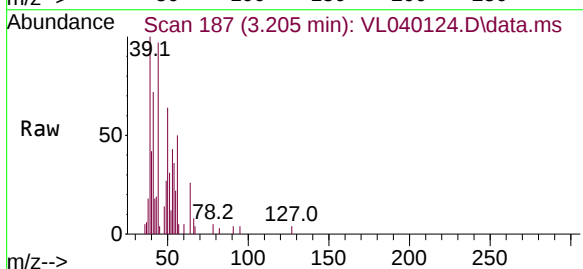
Instrument :
MSVOA_L
ClientSampleId :
VP-4

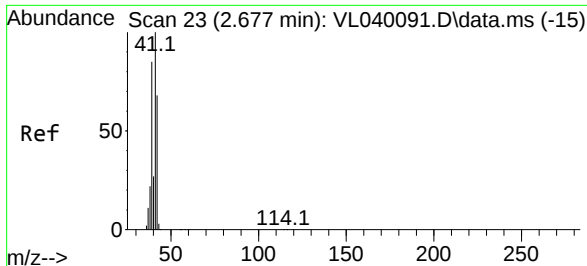
Tgt Ion: 94 Resp: 3132
Ion Ratio Lower Upper
94 100
96 73.4 76.2 114.2#



#7
Chloroethane
Concen: 0.039 ppbv
RT: 3.205 min Scan# 187
Delta R.T. 0.019 min
Lab File: VL040124.D
Acq: 19 Jan 2023 22:04

Tgt Ion: 64 Resp: 925
Ion Ratio Lower Upper
64 100
66 30.3 25.6 38.4





#9

Propene

Concen: 96.941 ppbv

RT: 2.693 min Scan# 21

Delta R.T. 0.016 min

Lab File: VL040124.D

Acq: 19 Jan 2023 22:04

Instrument :

MSVOA_L

ClientSampleId :

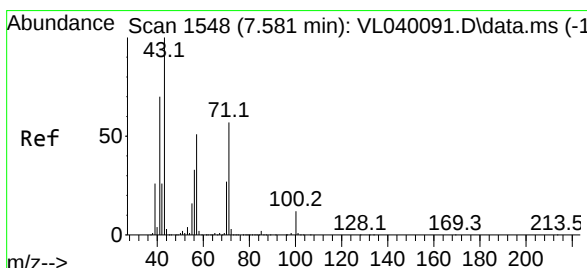
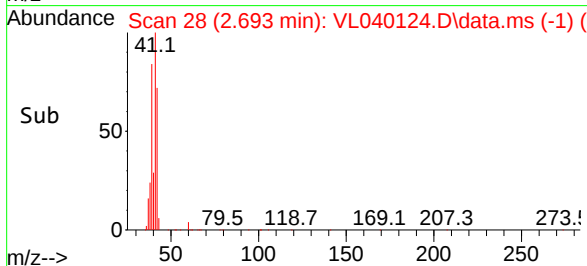
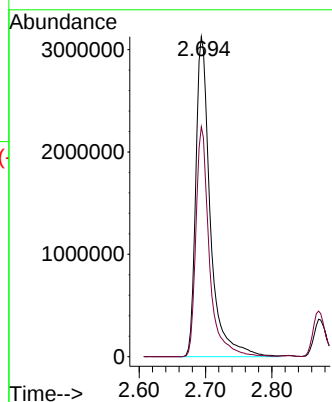
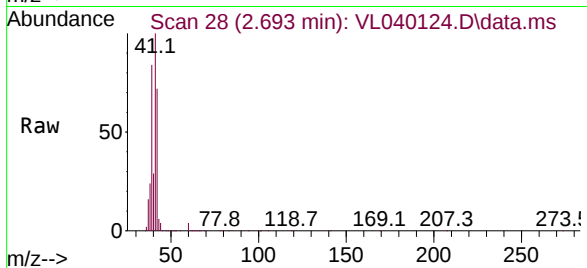
VP-4

Tgt Ion: 41 Resp: 4738828

Ion Ratio Lower Upper

41 100

42 66.8 55.6 83.4



#10

Heptane

Concen: 2.901 ppbv

RT: 7.603 min Scan# 1555

Delta R.T. 0.022 min

Lab File: VL040124.D

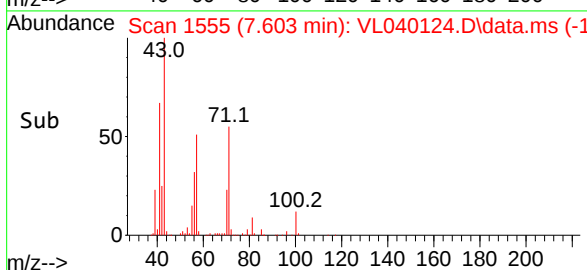
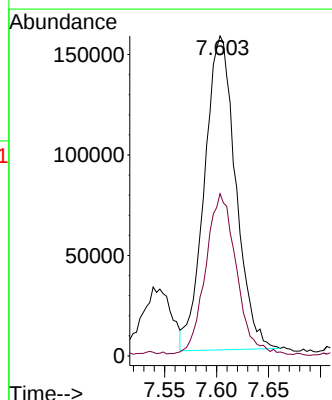
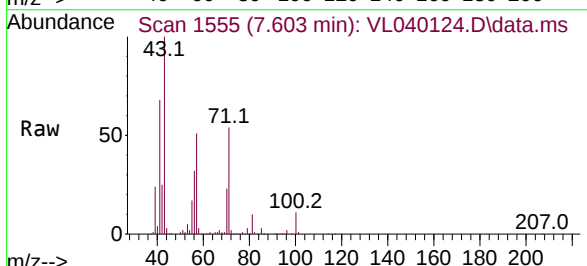
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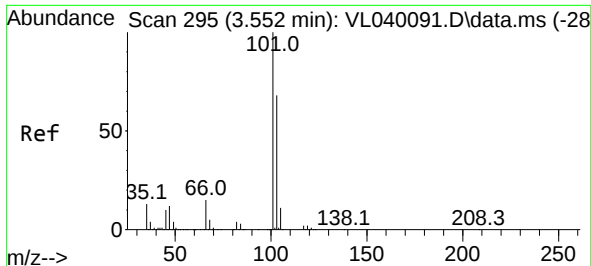
Tgt Ion: 43 Resp: 326894

Ion Ratio Lower Upper

43 100

57 51.9 40.9 61.3

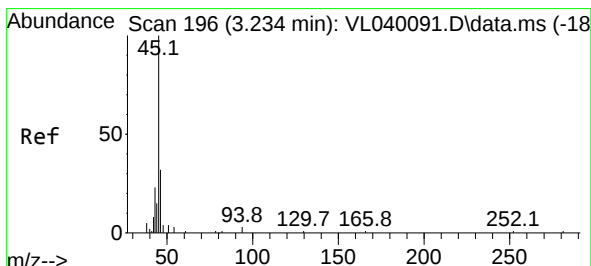
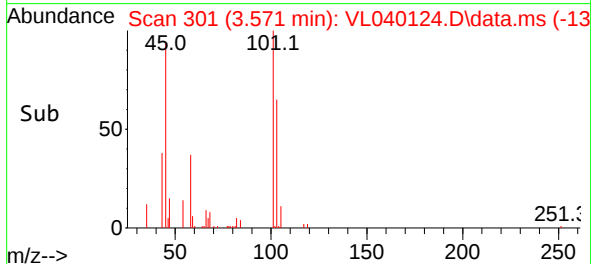
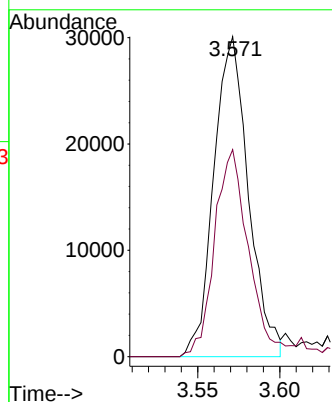
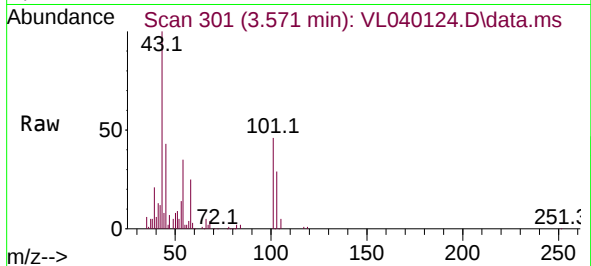




#11
 Trichlorofluoromethane
 Concen: 0.257 ppbv
 RT: 3.571 min Scan# 301
 Delta R.T. 0.019 min
 Lab File: VL040124.D
 Acq: 19 Jan 2023 22:04

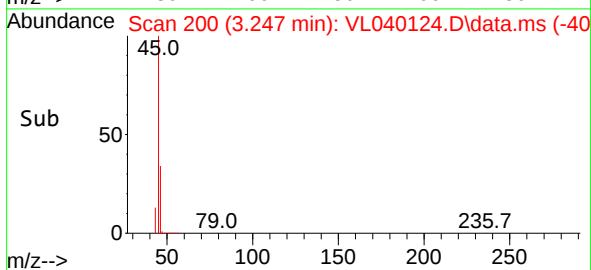
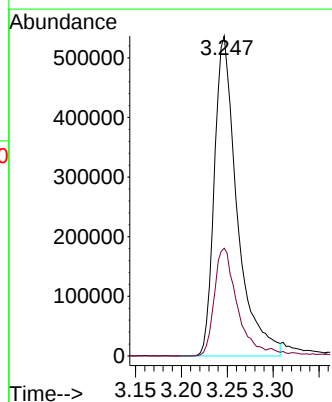
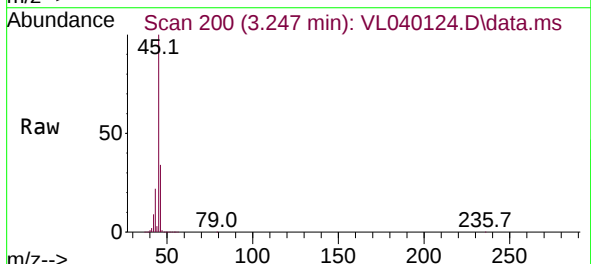
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-4

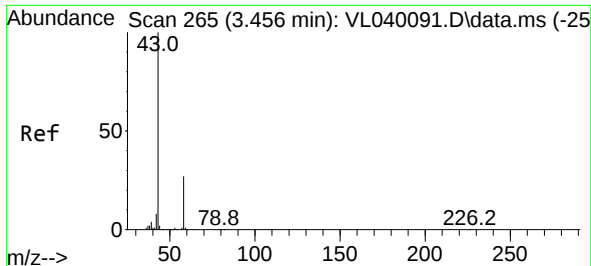
Tgt Ion:101 Resp: 44114
 Ion Ratio Lower Upper
 101 100
 103 64.7 54.0 81.0



#13
 Ethanol
 Concen: 205.782 ppbv
 RT: 3.247 min Scan# 200
 Delta R.T. 0.013 min
 Lab File: VL040124.D
 Acq: 19 Jan 2023 22:04

Tgt Ion: 45 Resp: 925878
 Ion Ratio Lower Upper
 45 100
 46 35.8 14.8 59.2





#15

Acetone

Concen: 90.495 ppbv

RT: 3.472 min Scan# 21

Delta R.T. 0.016 min

Lab File: VL040124.D

Acq: 19 Jan 2023 22:04

Instrument :

MSVOA_L

ClientSampleId :

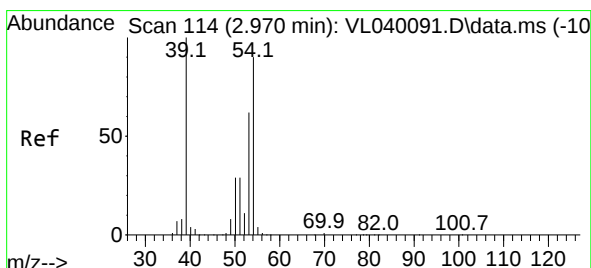
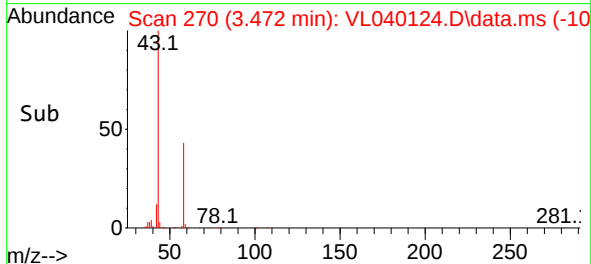
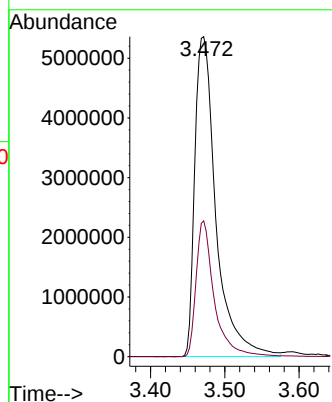
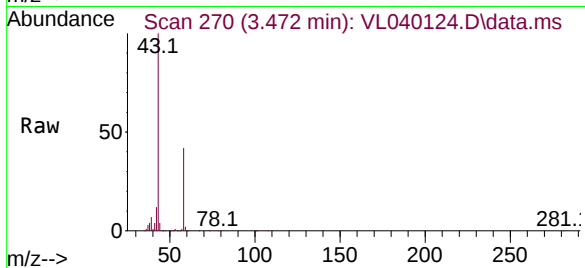
VP-4

Tgt Ion: 43 Resp:10646125

Ion Ratio Lower Upper

43 100

58 36.9 21.8 32.8#



#16

1,3-Butadiene

Concen: 19.019 ppbv

RT: 2.983 min Scan# 118

Delta R.T. 0.013 min

Lab File: VL040124.D

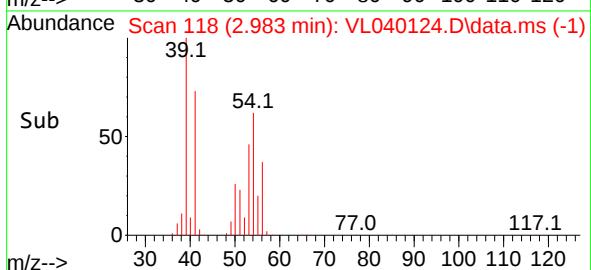
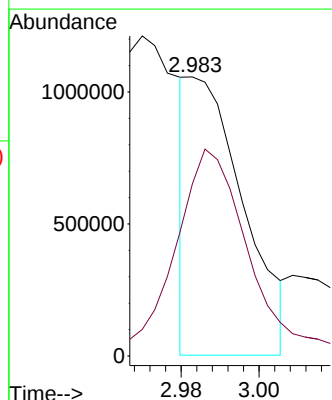
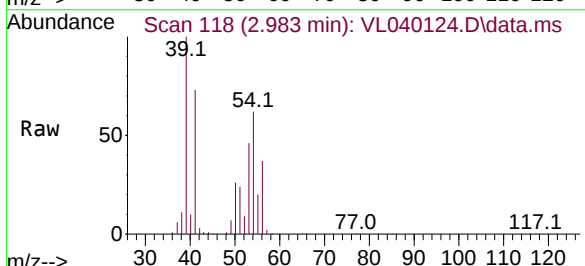
Acq: 19 Jan 2023 22:04

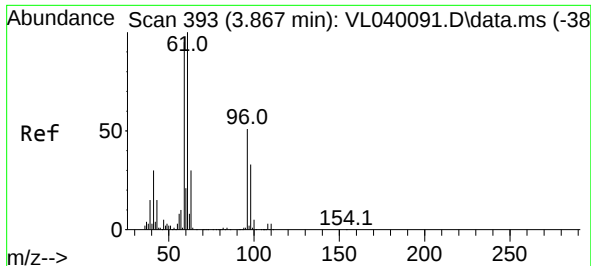
Tgt Ion: 39 Resp: 1043133

Ion Ratio Lower Upper

39 100

54 104.2 67.9 101.9#





#17

tert-Butyl alcohol

Concen: 1.633 ppbv

RT: 3.899 min Scan# 403

Delta R.T. 0.032 min

Lab File: VL040124.D

Acq: 19 Jan 2023 22:04

Instrument :

MSVOA_L

ClientSampleId :

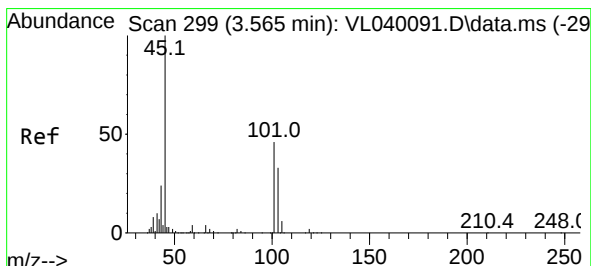
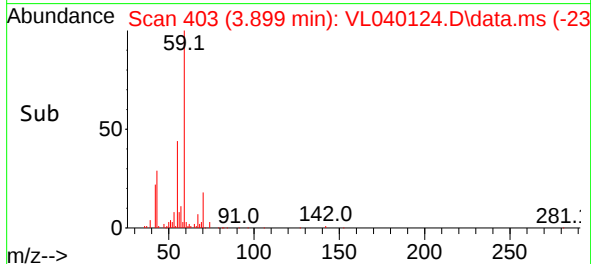
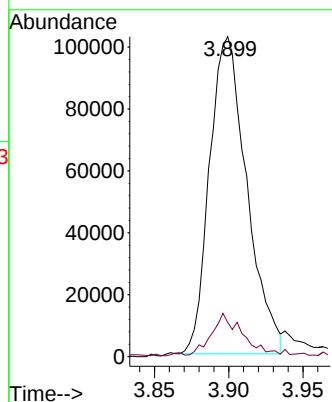
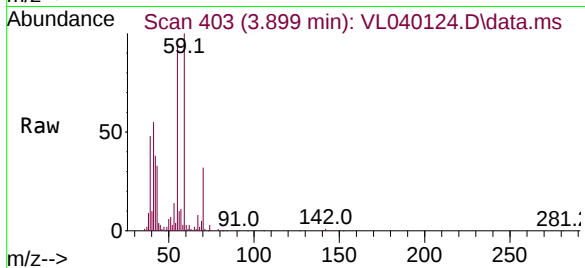
VP-4

Tgt Ion: 59 Resp: 178928

Ion Ratio Lower Upper

59 100

57 11.7 8.5 12.7



#19

Isopropyl Alcohol

Concen: 6.354 ppbv

RT: 3.591 min Scan# 307

Delta R.T. 0.026 min

Lab File: VL040124.D

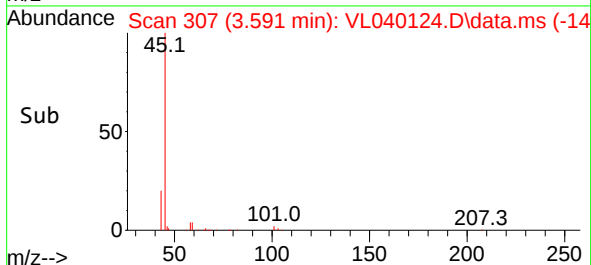
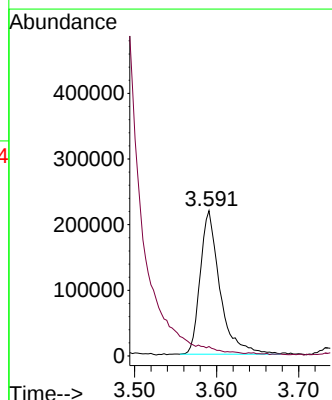
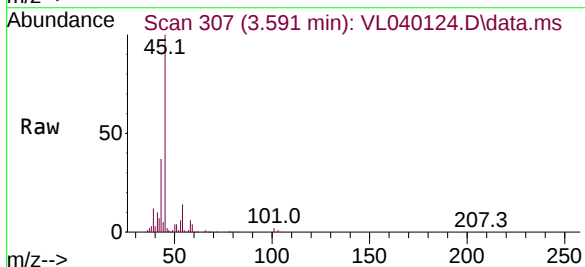
Acq: 19 Jan 2023 22:04

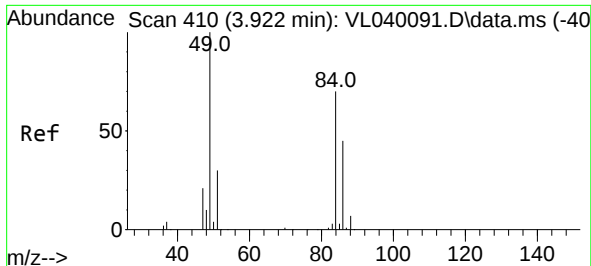
Tgt Ion: 45 Resp: 365716

Ion Ratio Lower Upper

45 100

58 0.0 2.6 4.0#





#20

Methylene Chloride

Concen: 59.326 ppbv

RT: 3.944 min Scan# 417

Delta R.T. 0.022 min

Lab File: VL040124.D

Acq: 19 Jan 2023 22:04

Instrument :

MSVOA_L

ClientSampleId :

VP-4

Tgt Ion: 84 Resp: 3079119

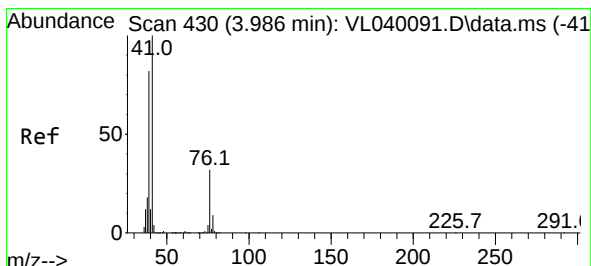
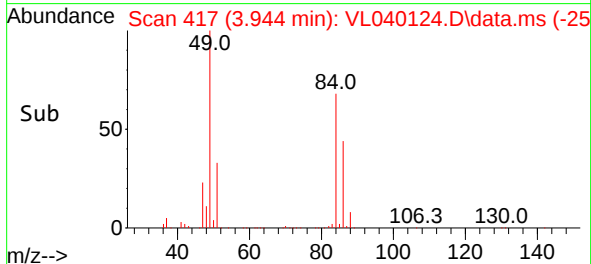
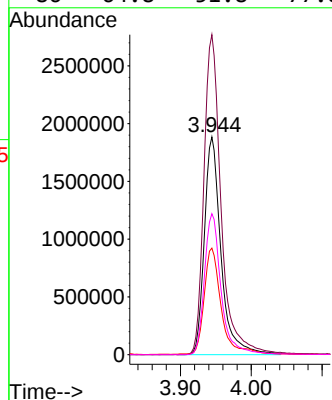
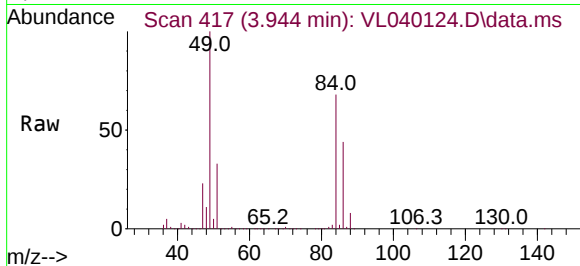
Ion Ratio Lower Upper

84 100

49 146.9 114.6 171.8

51 48.7 34.3 51.5

86 64.8 51.8 77.8



#21

Allyl Chloride

Concen: 1.118 ppbv

RT: 3.996 min Scan# 433

Delta R.T. 0.010 min

Lab File: VL040124.D

Acq: 19 Jan 2023 22:04

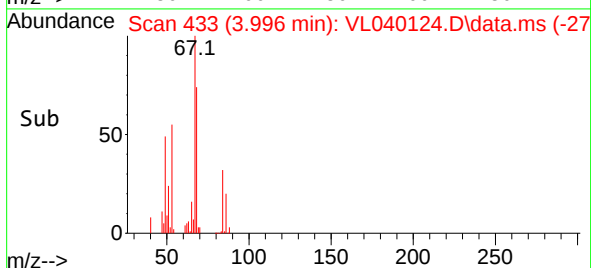
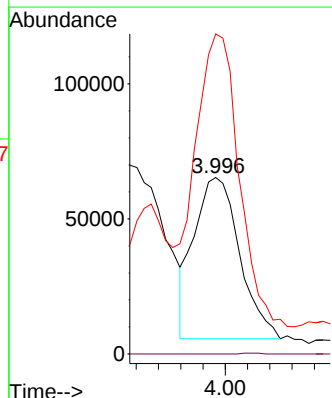
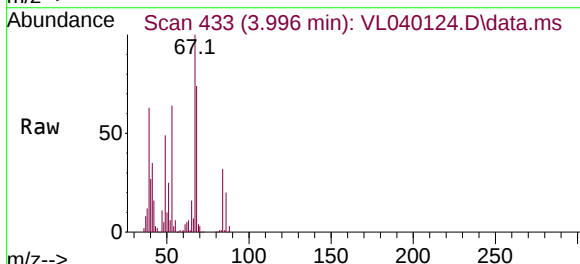
Tgt Ion: 41 Resp: 84419

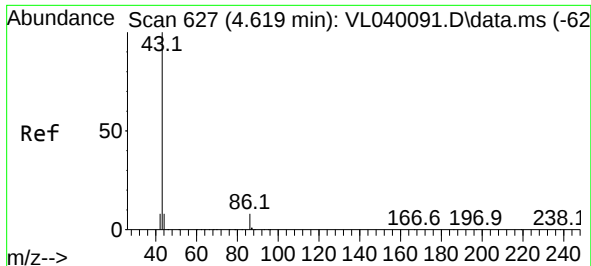
Ion Ratio Lower Upper

41 100

76 0.0 25.9 38.9#

39 312.8 66.8 100.2#



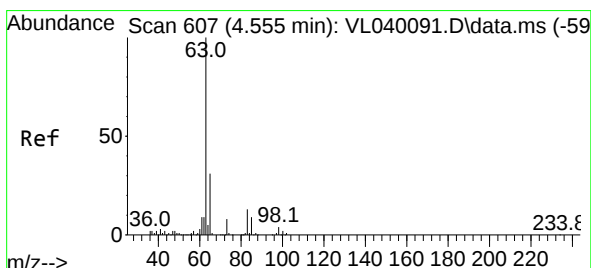
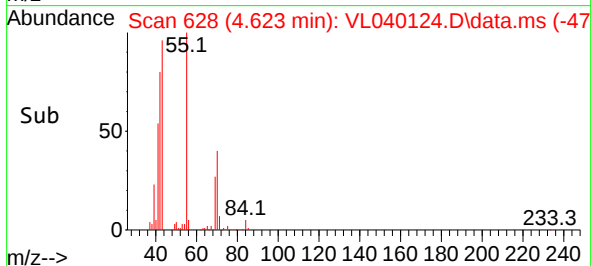
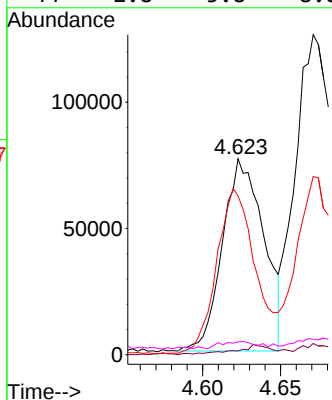
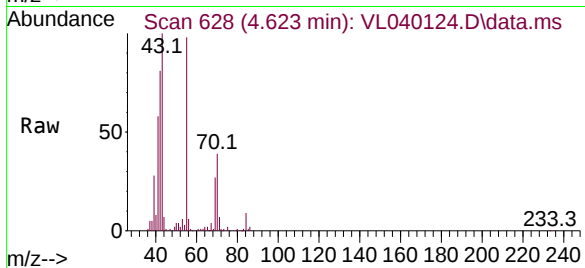


#23
 Vinyl Acetate
 Concen: 3.692 ppbv
 RT: 4.623 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL040124.D
 Acq: 19 Jan 2023 22:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-4

Tgt Ion: 43 Resp: 140788

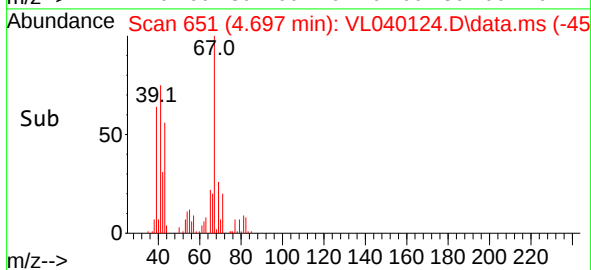
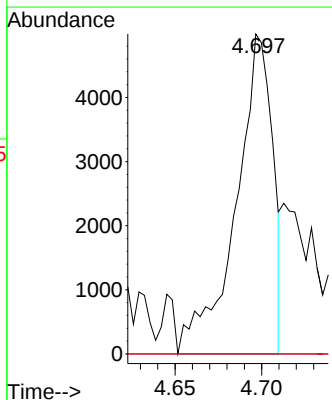
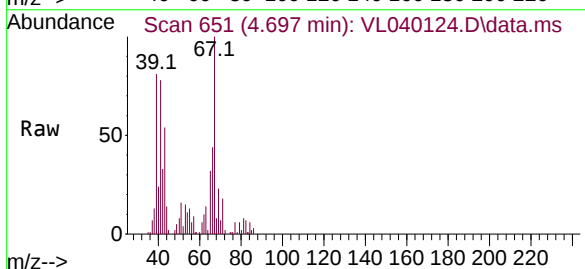
Ion	Ratio	Lower	Upper
43	100		
86	1.9	5.6	8.4#
42	82.0	7.7	11.5#
44	2.8	5.8	8.8#

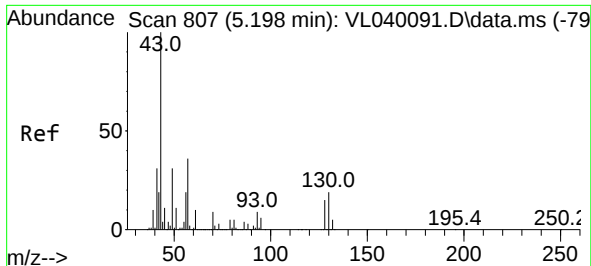


#24
 1,1-Dichloroethane
 Concen: 0.064 ppbv
 RT: 4.697 min Scan# 651
 Delta R.T. 0.141 min
 Lab File: VL040124.D
 Acq: 19 Jan 2023 22:04

Tgt Ion: 63 Resp: 7360

Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.0	5.8#
100	0.0	1.1	3.5#

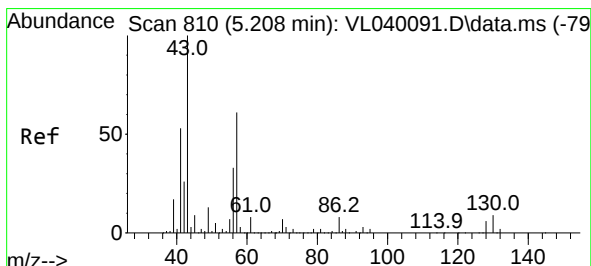
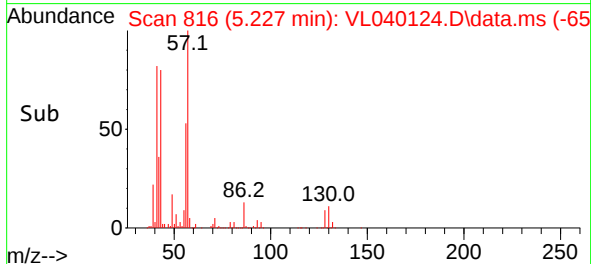
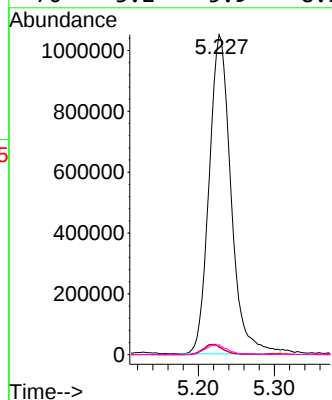
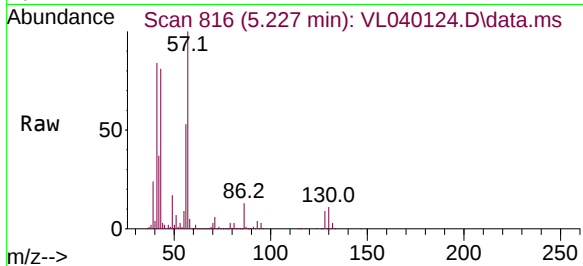




#25
Ethyl Acetate
Concen: 10.120 ppbv
RT: 5.227 min Scan# 816
Delta R.T. 0.029 min
Lab File: VL040124.D
Acq: 19 Jan 2023 22:04

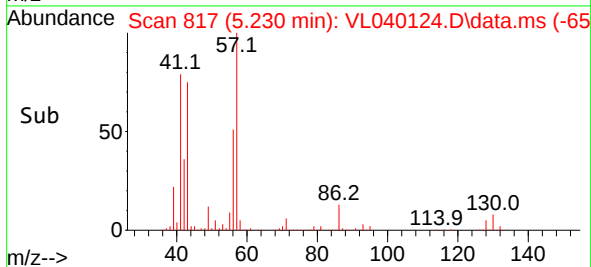
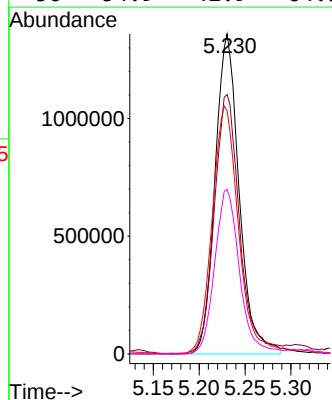
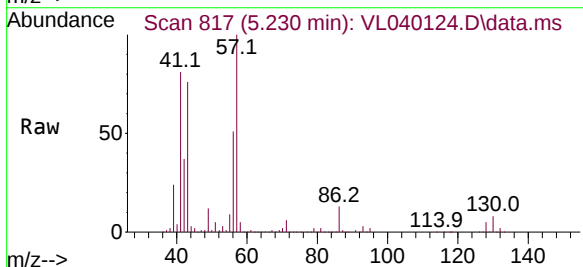
Instrument :
MSVOA_L
ClientSampleId :
VP-4

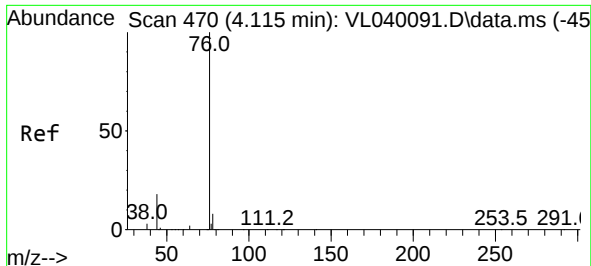
Tgt Ion: 43 Resp: 2097484
Ion Ratio Lower Upper
43 100
45 3.2 8.5 12.7#
61 2.9 8.4 12.6#
70 3.2 5.9 8.9#



#26
Hexane
Concen: 27.383 ppbv
RT: 5.230 min Scan# 817
Delta R.T. 0.022 min
Lab File: VL040124.D
Acq: 19 Jan 2023 22:04

Tgt Ion: 57 Resp: 2483642
Ion Ratio Lower Upper
57 100
41 88.2 72.2 108.4
43 85.5 192.1 288.1#
56 54.9 42.9 64.3

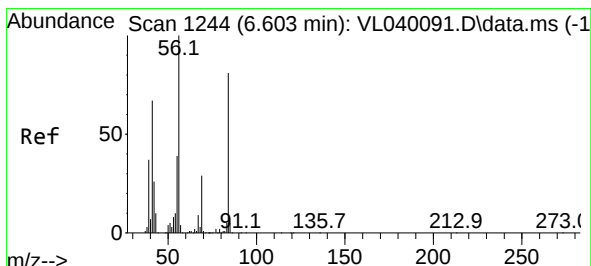
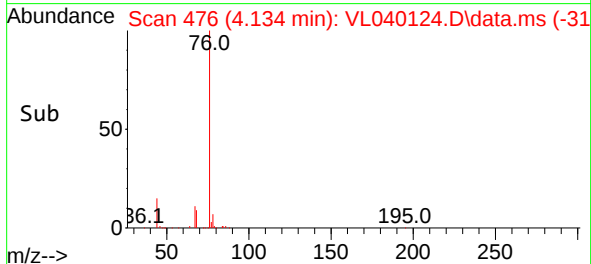
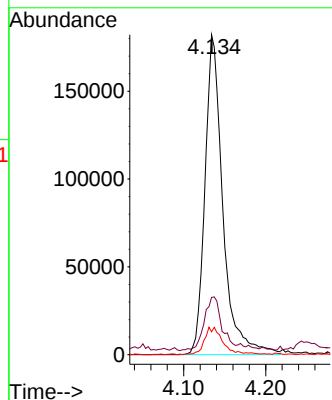
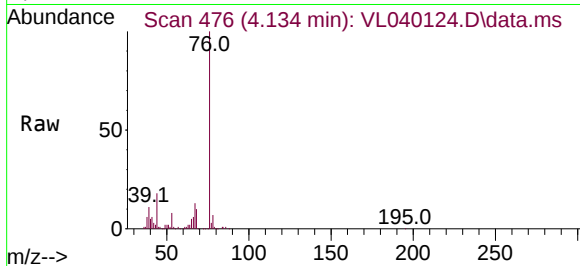




#27
Carbon Disulfide
Concen: 2.352 ppbv
RT: 4.134 min Scan# 41
Delta R.T. 0.019 min
Lab File: VL040124.D
Acq: 19 Jan 2023 22:04

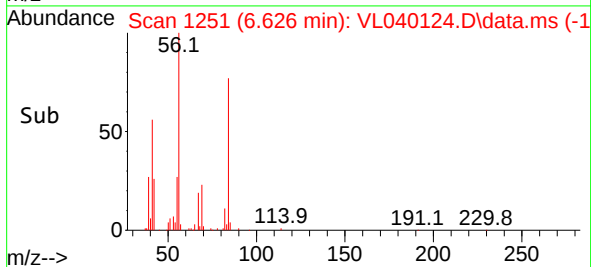
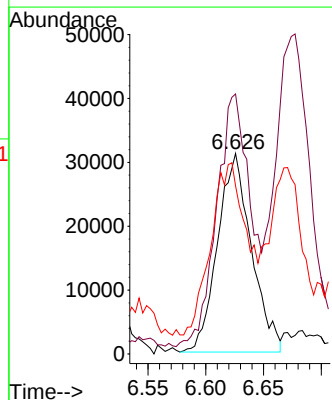
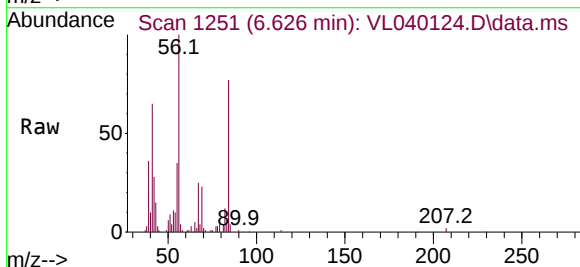
Instrument :
MSVOA_L
ClientSampleId :
VP-4

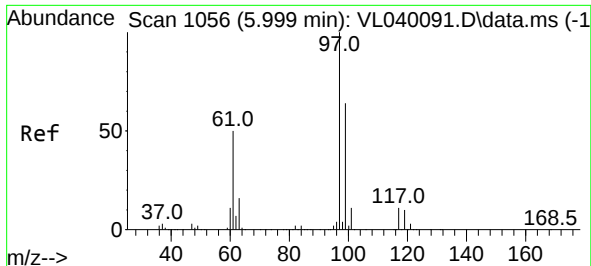
Tgt Ion: 76 Resp: 276364
Ion Ratio Lower Upper
76 100
44 18.6 14.9 22.3
78 9.2 8.2 12.2



#30
Cyclohexane
Concen: 0.878 ppbv
RT: 6.626 min Scan# 1251
Delta R.T. 0.022 min
Lab File: VL040124.D
Acq: 19 Jan 2023 22:04

Tgt Ion: 84 Resp: 63322
Ion Ratio Lower Upper
84 100
56 127.4 111.5 167.3
41 96.2 71.4 107.0

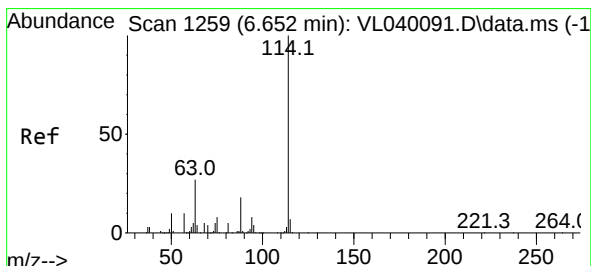
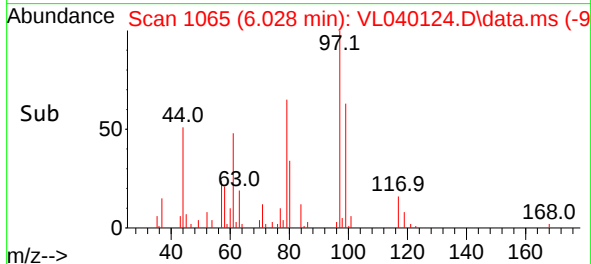
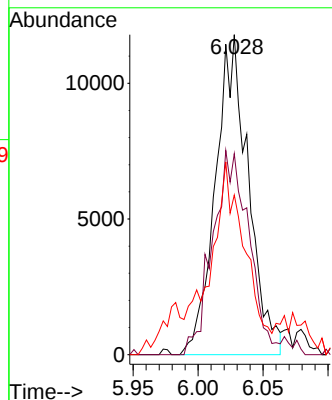
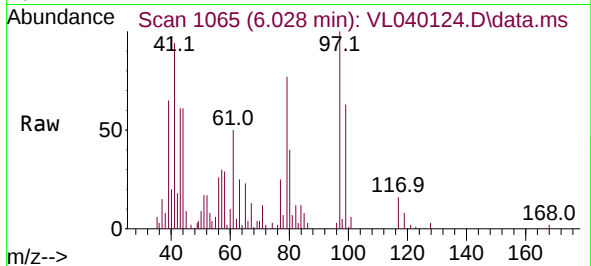




#32
 1,1,1-Trichloroethane
 Concen: 0.141 ppbv
 RT: 6.028 min Scan# 1065
 Delta R.T. 0.029 min
 Lab File: VL040124.D
 Acq: 19 Jan 2023 22:04

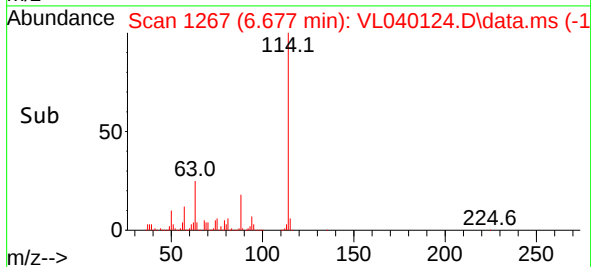
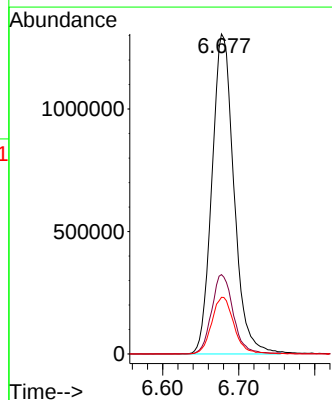
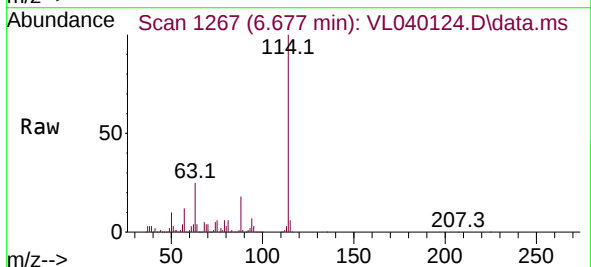
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-4

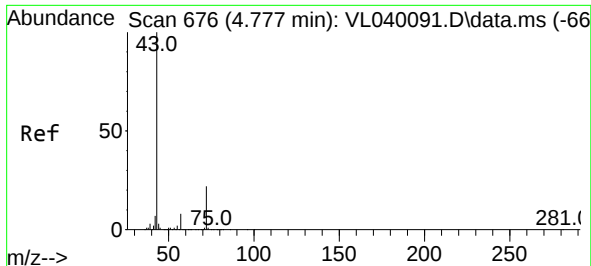
Tgt Ion: 97 Resp: 20769
 Ion Ratio Lower Upper
 97 100
 99 71.8 51.8 77.6
 61 73.5 40.4 60.6#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 6.677 min Scan# 1267
 Delta R.T. 0.026 min
 Lab File: VL040124.D
 Acq: 19 Jan 2023 22:04

Tgt Ion: 114 Resp: 2622299
 Ion Ratio Lower Upper
 114 100
 63 24.8 21.8 32.8
 88 18.0 14.8 22.2

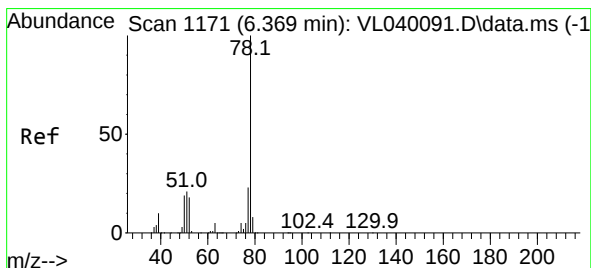
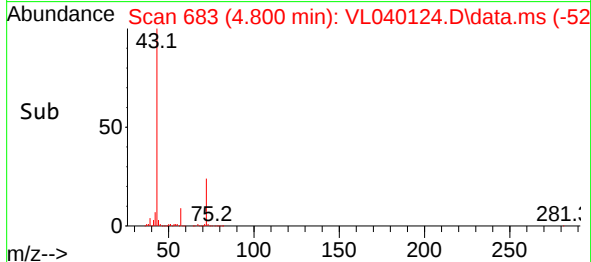
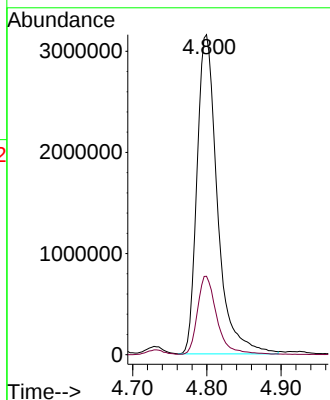
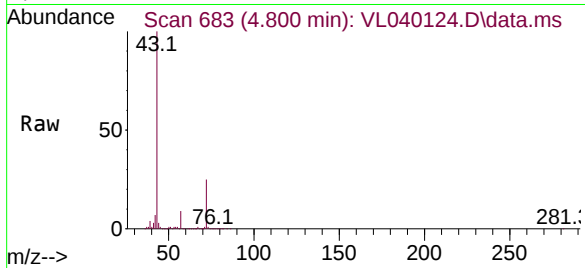




#34
2-Butanone
Concen: 48.689 ppbv
RT: 4.800 min Scan# 61
Delta R.T. 0.022 min
Lab File: VL040124.D
Acq: 19 Jan 2023 22:04

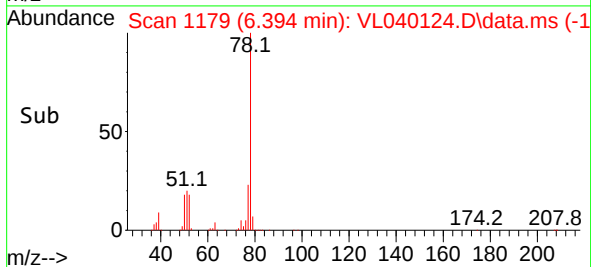
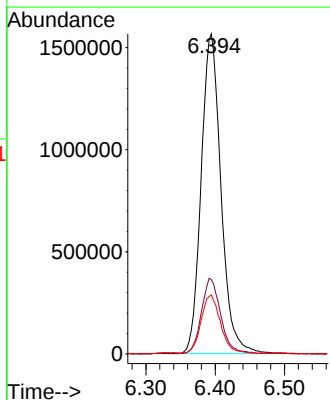
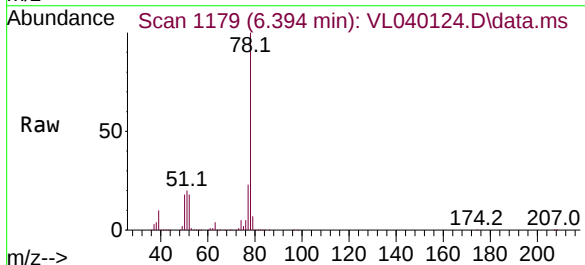
Instrument :
MSVOA_L
ClientSampleId :
VP-4

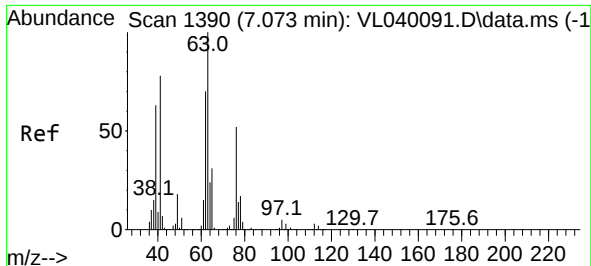
Tgt Ion: 43 Resp: 6039279
Ion Ratio Lower Upper
43 100
72 23.7 18.4 27.6



#36
Benzene
Concen: 16.019 ppbv
RT: 6.394 min Scan# 1179
Delta R.T. 0.026 min
Lab File: VL040124.D
Acq: 19 Jan 2023 22:04

Tgt Ion: 78 Resp: 3108525
Ion Ratio Lower Upper
78 100
77 23.1 18.1 27.1
50 18.2 15.6 23.4





#39

1,2-Dichloropropane

Concen: 8.321 ppbv

RT: 6.677 min Scan# 1

Delta R.T. -0.395 min

Lab File: VL040124.D

Acq: 19 Jan 2023 22:04

Instrument :

MSVOA_L

ClientSampleId :

VP-4

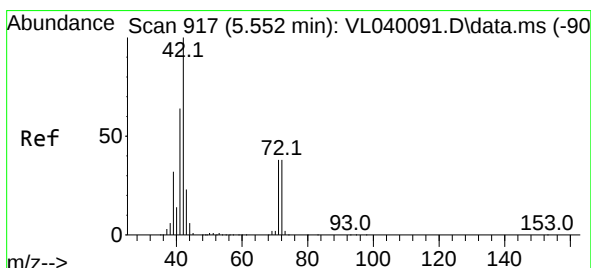
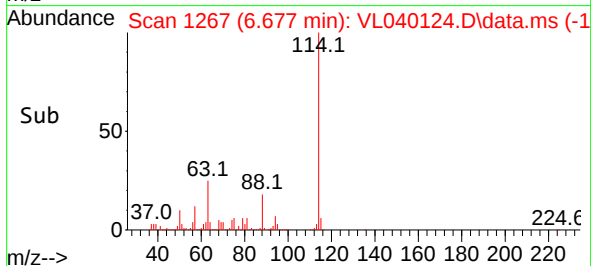
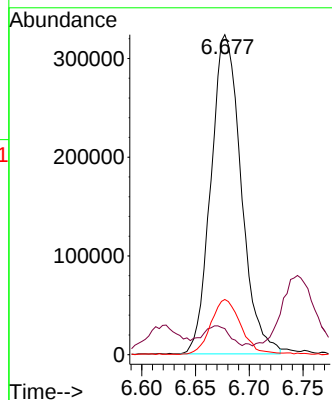
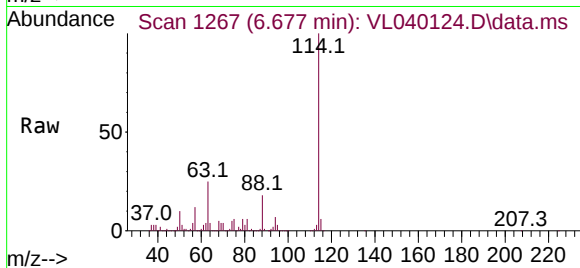
Tgt Ion: 63 Resp: 631570

Ion Ratio Lower Upper

63 100

41 2.2 62.2 93.4#

62 17.2 55.8 83.8#



#41

Tetrahydrofuran

Concen: 9.656 ppbv

RT: 5.574 min Scan# 924

Delta R.T. 0.022 min

Lab File: VL040124.D

Acq: 19 Jan 2023 22:04

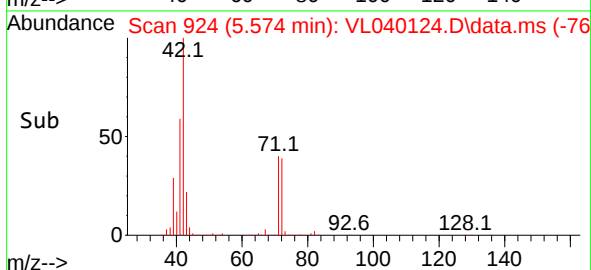
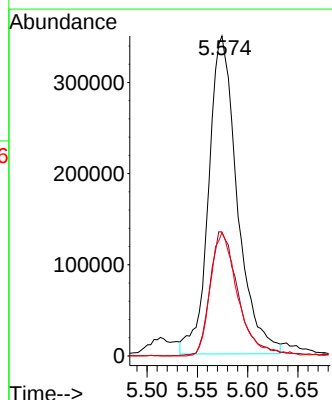
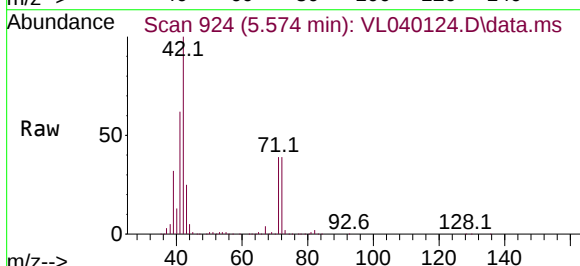
Tgt Ion: 42 Resp: 691319

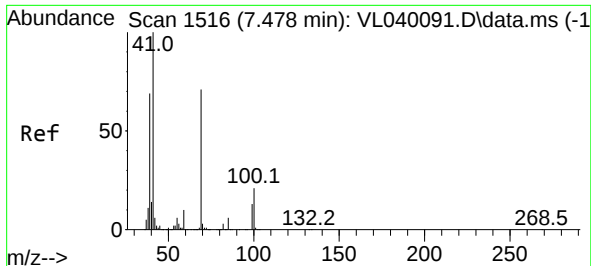
Ion Ratio Lower Upper

42 100

72 39.1 31.9 47.9

71 38.1 31.4 47.2

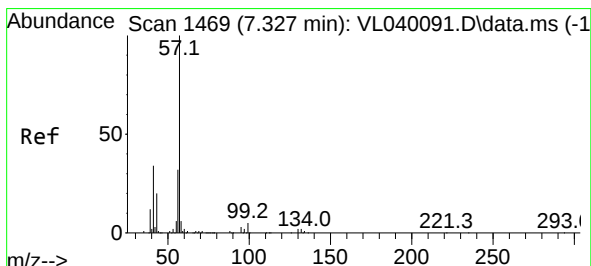
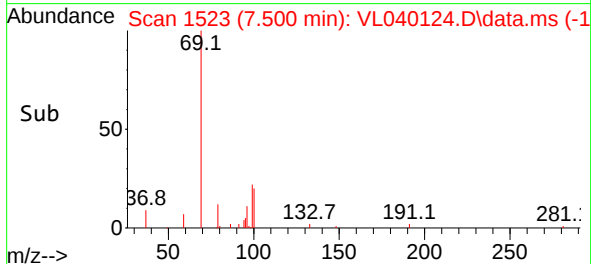
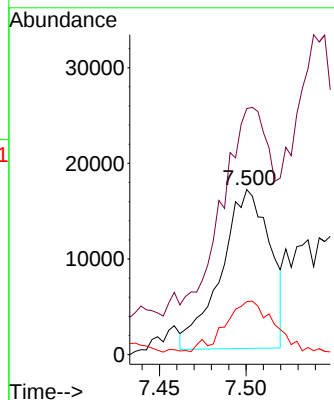
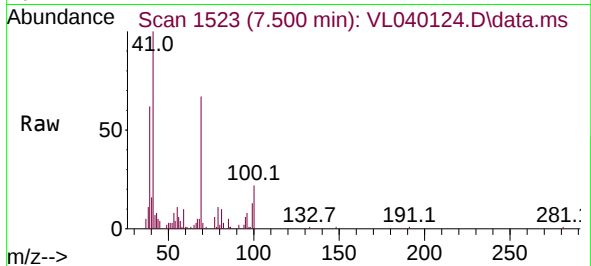




#43
Methyl Methacrylate
Concen: 0.457 ppbv
RT: 7.500 min Scan# 11
Delta R.T. 0.022 min
Lab File: VL040124.D
Acq: 19 Jan 2023 22:04

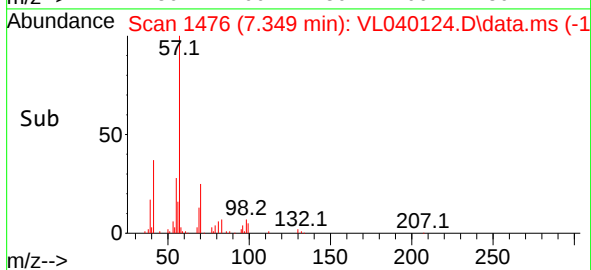
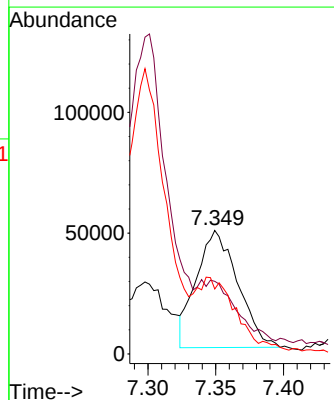
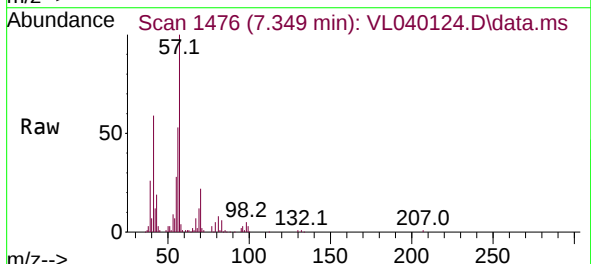
Instrument :
MSVOA_L
ClientSampleId :
VP-4

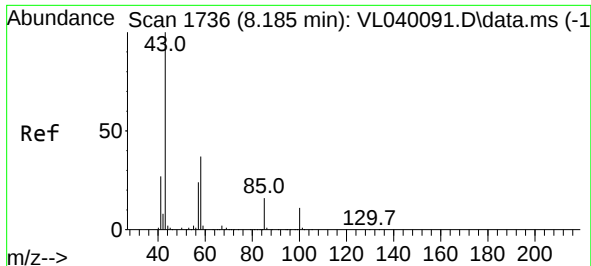
Tgt Ion: 69 Resp: 32511
Ion Ratio Lower Upper
69 100
41 122.0 118.2 177.2
100 36.7 24.2 36.4#



#44
2,2,4-Trimethylpentane
Concen: 0.320 ppbv
RT: 7.349 min Scan# 1476
Delta R.T. 0.023 min
Lab File: VL040124.D
Acq: 19 Jan 2023 22:04

Tgt Ion: 57 Resp: 103238
Ion Ratio Lower Upper
57 100
41 0.0 27.1 40.7#
56 0.0 25.0 37.4#





#50

4-Methyl-2-Pentanone

Concen: 0.651 ppbv

RT: 8.214 min Scan# 1

Delta R.T. 0.029 min

Lab File: VL040124.D

Acq: 19 Jan 2023 22:04

Instrument :

MSVOA_L

ClientSampleId :

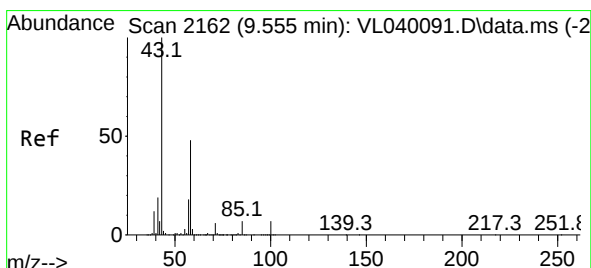
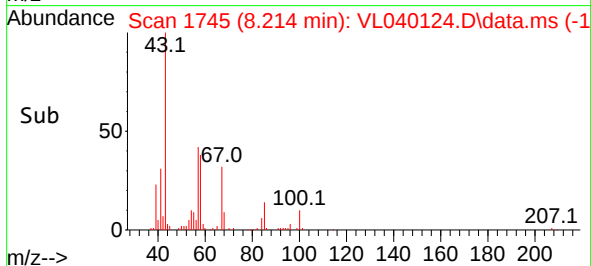
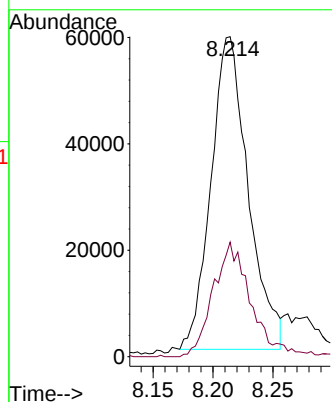
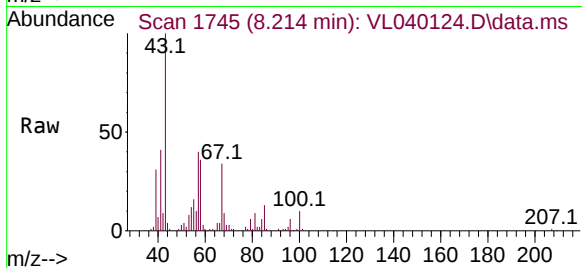
VP-4

Tgt Ion: 43 Resp: 127003

Ion Ratio Lower Upper

43 100

58 37.8 28.8 43.2



#51

2-Hexanone

Concen: 2.524 ppbv

RT: 9.574 min Scan# 2168

Delta R.T. 0.019 min

Lab File: VL040124.D

Acq: 19 Jan 2023 22:04

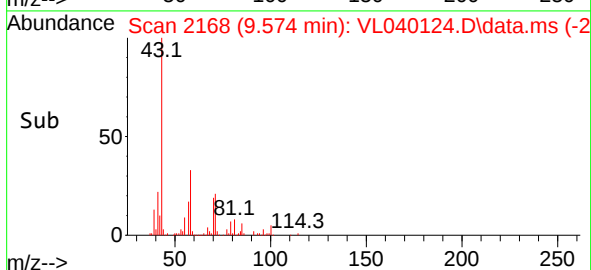
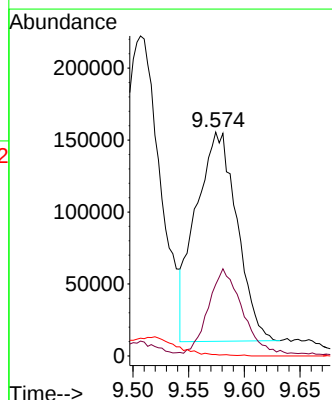
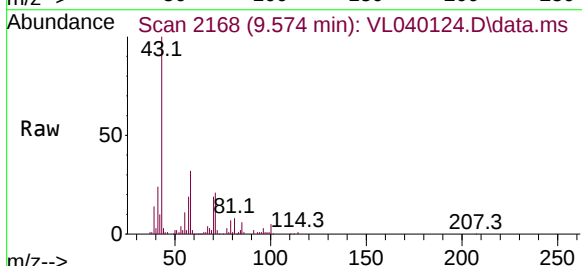
Tgt Ion: 43 Resp: 373032

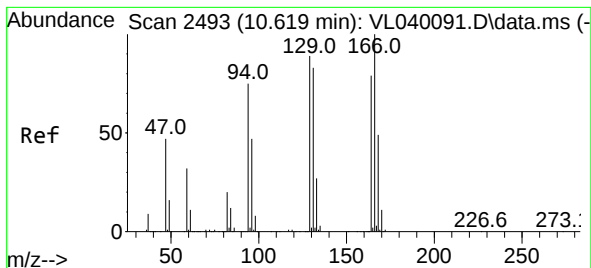
Ion Ratio Lower Upper

43 100

58 36.3 37.5 56.3#

98 0.0 0.4 0.6#





#52

Tetrachloroethene

Concen: 0.066 ppbv

RT: 10.664 min Scan# 21

Delta R.T. 0.045 min

Lab File: VL040124.D

Acq: 19 Jan 2023 22:04

Instrument :

MSVOA_L

ClientSampleId :

VP-4

Tgt Ion:164 Resp: 4177

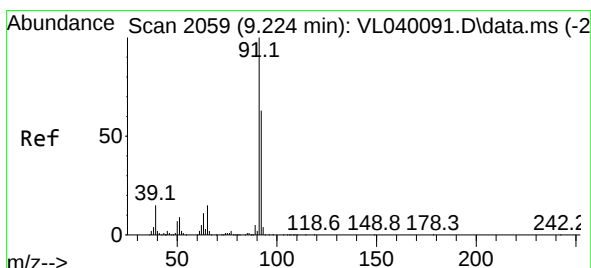
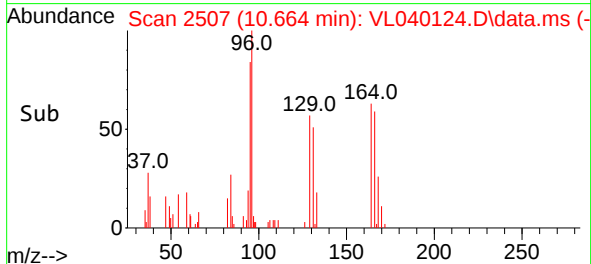
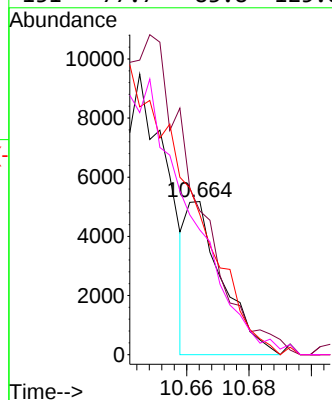
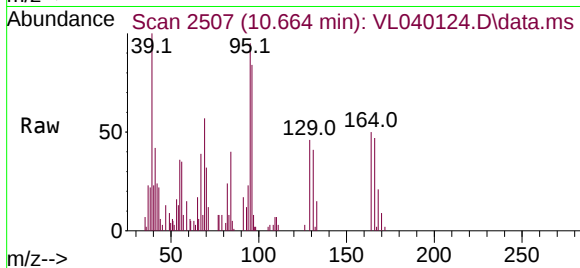
Ion Ratio Lower Upper

164 100

166 83.9 101.2 151.8#

129 91.4 90.2 135.2

131 77.7 83.8 125.8#



#53

Toluene

Concen: 11.136 ppbv

RT: 9.249 min Scan# 2067

Delta R.T. 0.026 min

Lab File: VL040124.D

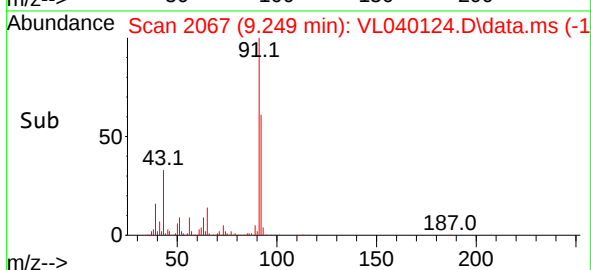
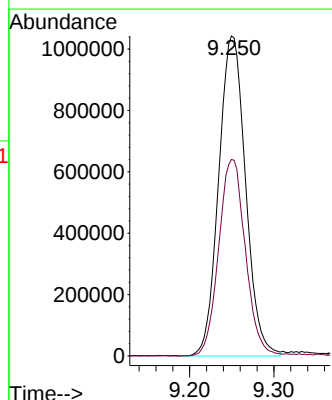
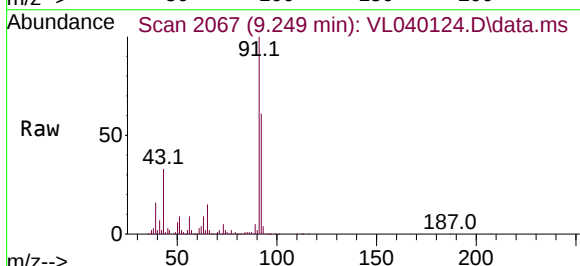
Acq: 19 Jan 2023 22:04

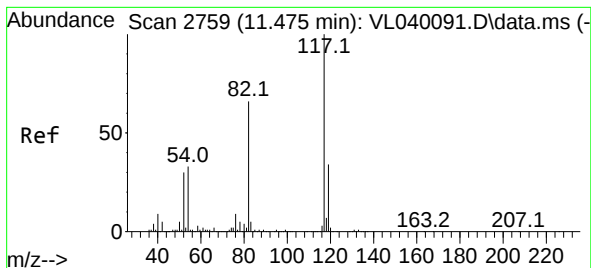
Tgt Ion: 91 Resp: 2304816

Ion Ratio Lower Upper

91 100

92 62.0 48.3 72.5





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.500 min Scan# 21

Delta R.T. 0.026 min

Lab File: VL040124.D

Acq: 19 Jan 2023 22:04

Instrument :

MSVOA_L

ClientSampleId :

VP-4

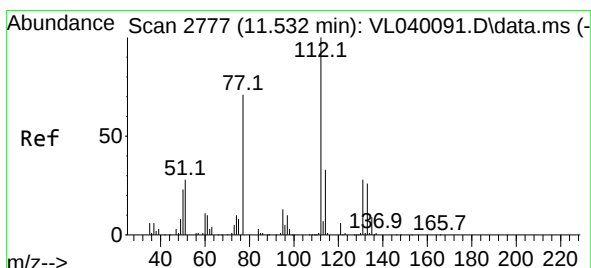
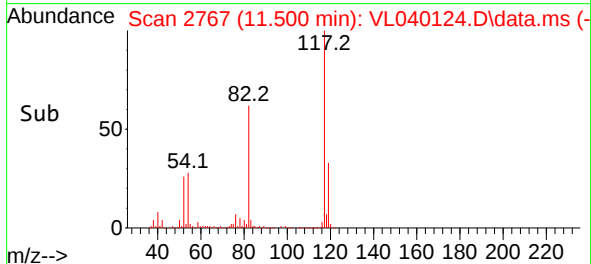
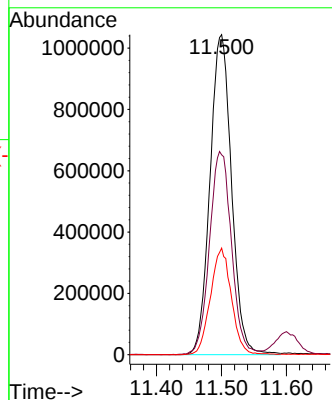
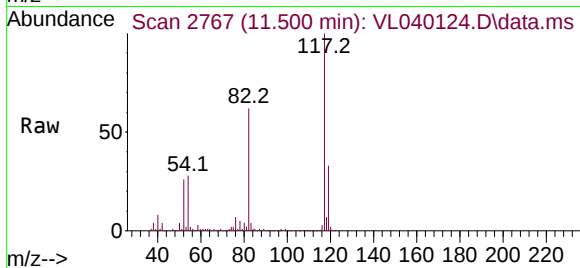
Tgt Ion:117 Resp: 2404734

Ion Ratio Lower Upper

117 100

82 64.7 54.4 81.6

119 32.4 26.8 40.2



#57

Chlorobenzene

Concen: 0.042 ppbv

RT: 11.561 min Scan# 2786

Delta R.T. 0.029 min

Lab File: VL040124.D

Acq: 19 Jan 2023 22:04

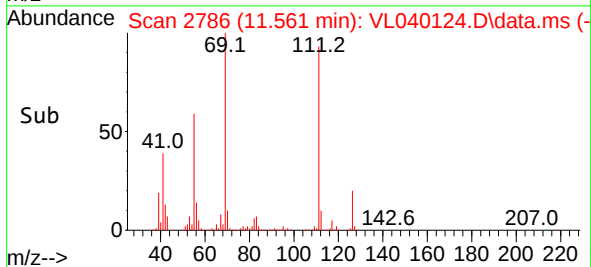
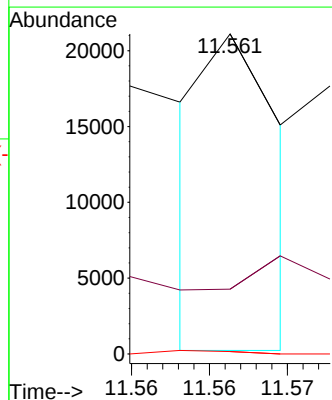
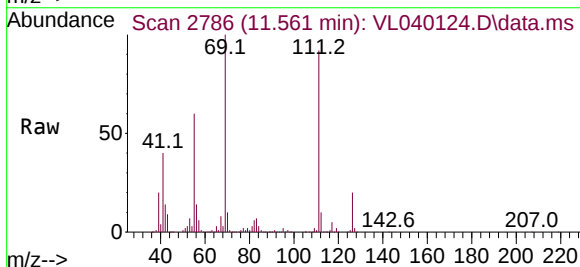
Tgt Ion:112 Resp: 6896

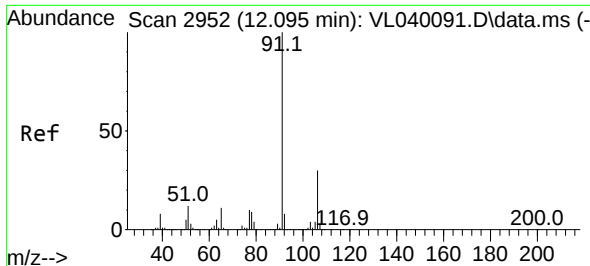
Ion Ratio Lower Upper

112 100

77 0.8 57.3 85.9#

114 2.7 29.6 36.2#

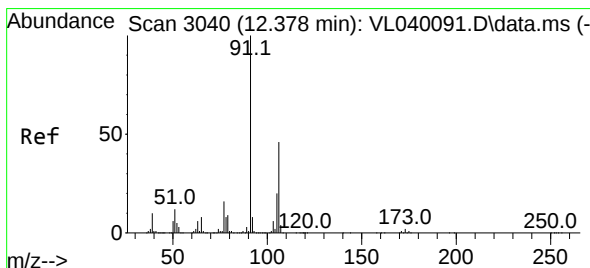
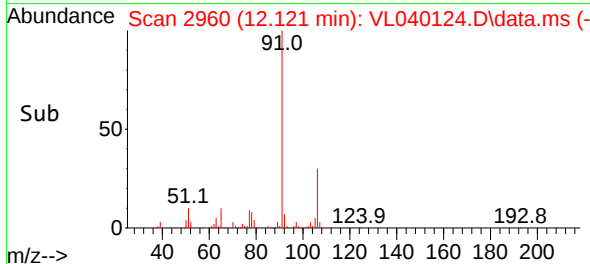
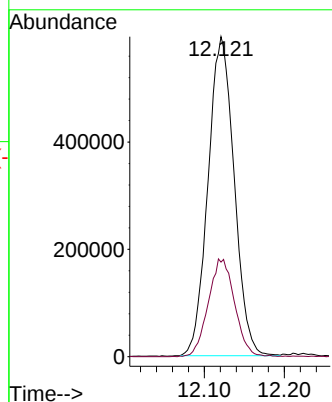
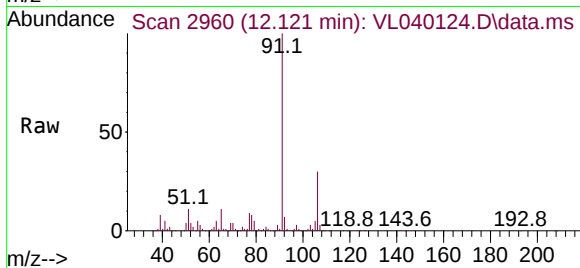




#58
Ethyl Benzene
Concen: 5.035 ppbv
RT: 12.121 min Scan# 2952
Delta R.T. 0.026 min
Lab File: VL040124.D
Acq: 19 Jan 2023 22:04

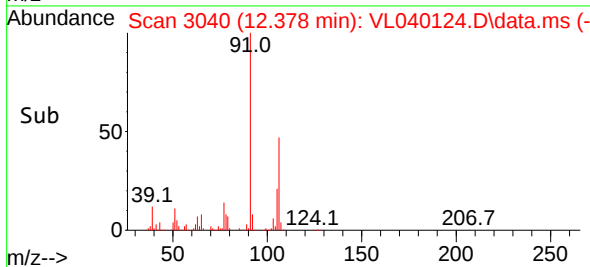
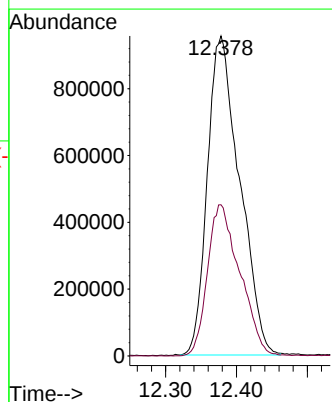
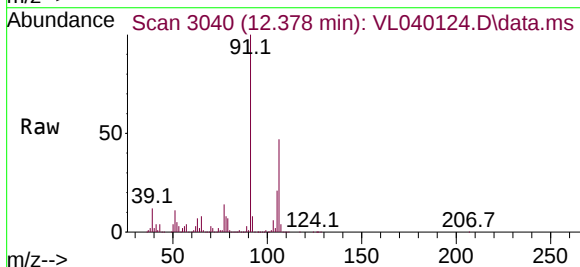
Instrument :
MSVOA_L
ClientSampleId :
VP-4

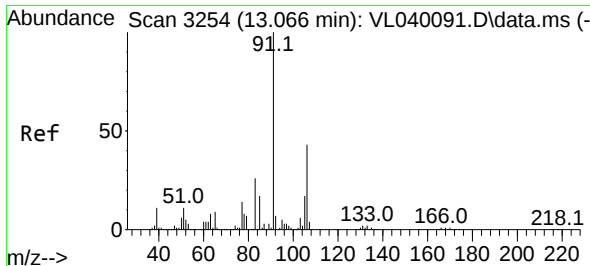
Tgt Ion: 91 Resp: 1351138
Ion Ratio Lower Upper
91 100
106 29.5 23.7 35.5



#59
m/p-Xylene
Concen: 12.499 ppbv
RT: 12.378 min Scan# 3040
Delta R.T. 0.000 min
Lab File: VL040124.D
Acq: 19 Jan 2023 22:04

Tgt Ion: 91 Resp: 3015903
Ion Ratio Lower Upper
91 100
106 47.8 34.2 51.4

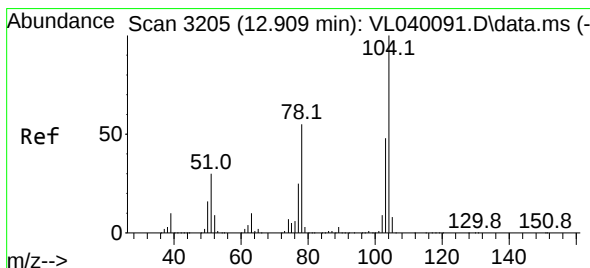
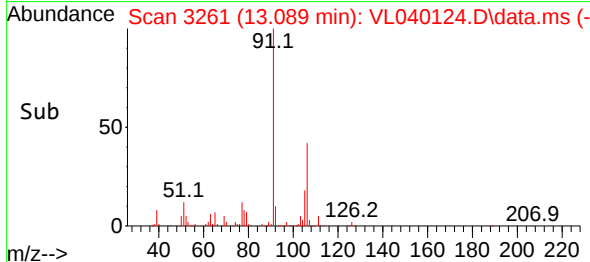
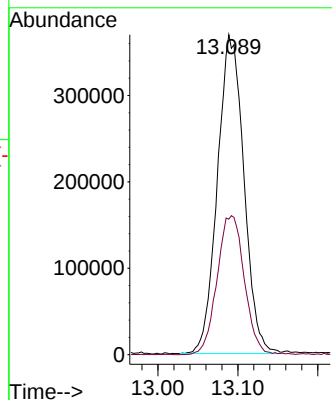
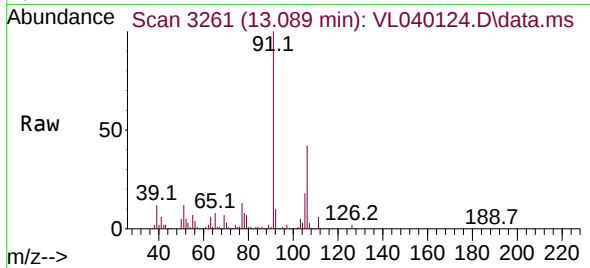




#60
o-Xylene
Concen: 3.694 ppbv
RT: 13.089 min Scan# 31
Delta R.T. 0.023 min
Lab File: VL040124.D
Acq: 19 Jan 2023 22:04

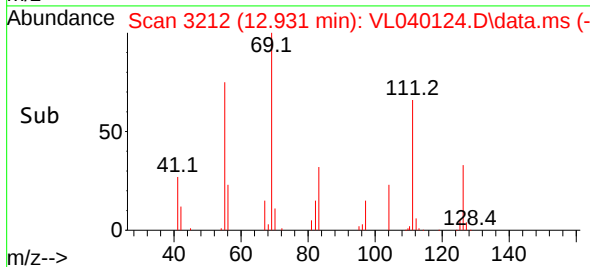
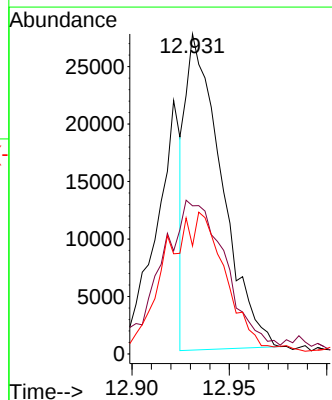
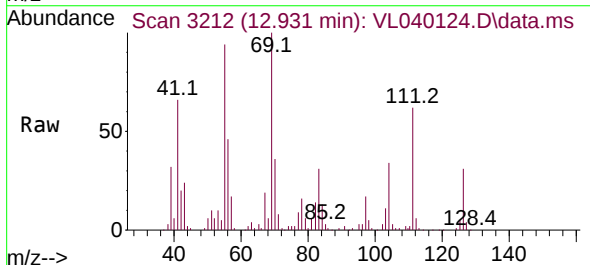
Instrument :
MSVOA_L
ClientSampleId :
VP-4

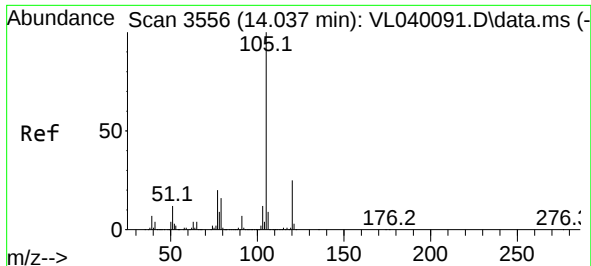
Tgt Ion: 91 Resp: 846091
Ion Ratio Lower Upper
91 100
106 45.2 21.6 64.8



#61
Styrene
Concen: 0.296 ppbv
RT: 12.931 min Scan# 3212
Delta R.T. 0.023 min
Lab File: VL040124.D
Acq: 19 Jan 2023 22:04

Tgt Ion: 104 Resp: 35290
Ion Ratio Lower Upper
104 100
78 94.5 44.0 66.0#
103 81.0 37.8 56.6#

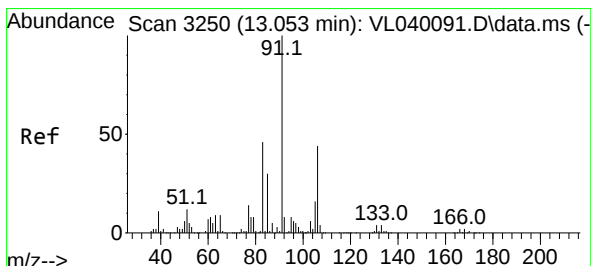
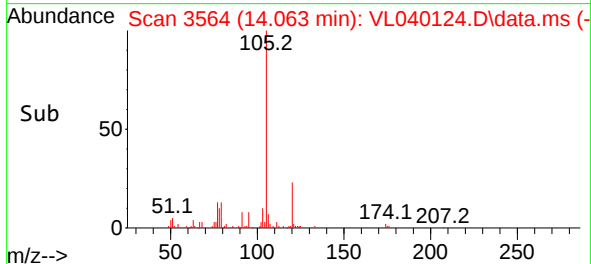
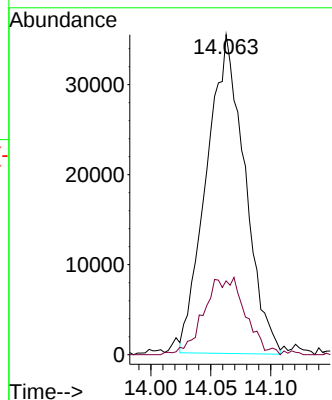
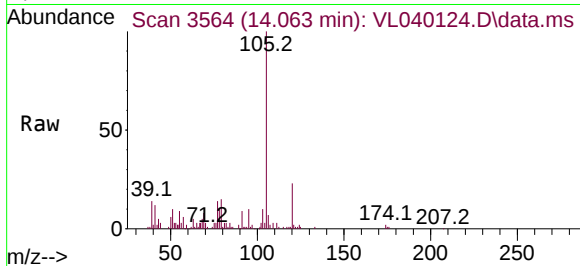




#62
Isopropylbenzene
Concen: 0.239 ppbv
RT: 14.063 min Scan# 3564
Delta R.T. 0.026 min
Lab File: VL040124.D
Acq: 19 Jan 2023 22:04

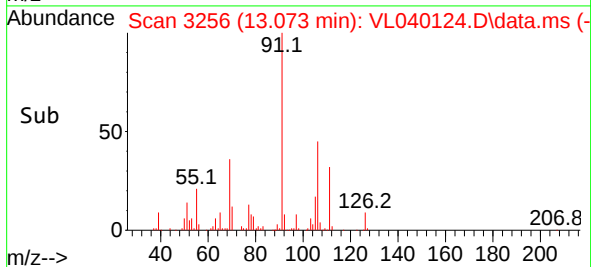
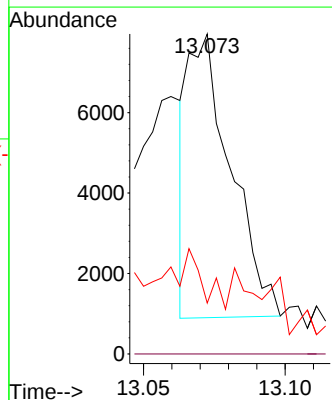
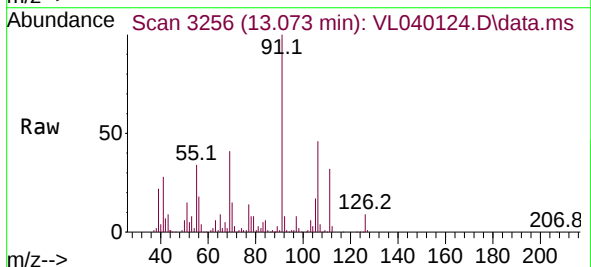
Instrument :
MSVOA_L
ClientSampleId :
VP-4

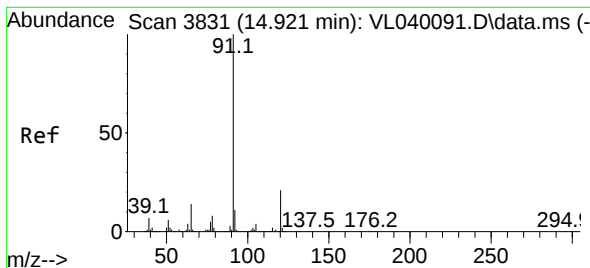
Tgt Ion:105 Resp: 78702
Ion Ratio Lower Upper
105 100
120 26.5 20.2 30.2



#63
1,1,2,2-Tetrachloroethane
Concen: 0.090 ppbv
RT: 13.073 min Scan# 3256
Delta R.T. 0.019 min
Lab File: VL040124.D
Acq: 19 Jan 2023 22:04

Tgt Ion: 83 Resp: 7459
Ion Ratio Lower Upper
83 100
131 0.0 4.3 13.1#
85 0.0 32.5 97.5#





#64

n-propylbenzene

Concen: 0.417 ppbv

RT: 14.947 min Scan# 3839

Delta R.T. 0.026 min

Lab File: VL040124.D

Acq: 19 Jan 2023 22:04

Instrument :

MSVOA_L

ClientSampleId :

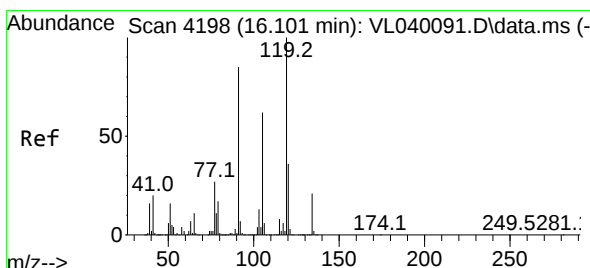
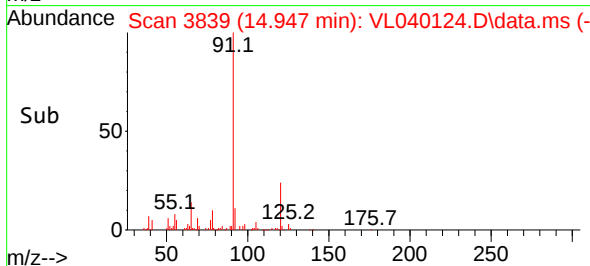
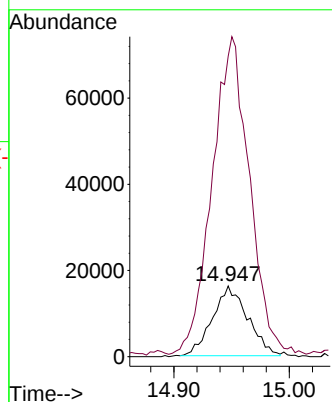
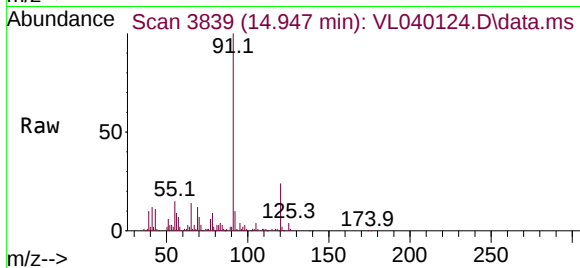
VP-4

Tgt Ion:120 Resp: 34152

Ion Ratio Lower Upper

120 100

91 488.2 397.0 595.4



#65

tert-Butylbenzene

Concen: 0.222 ppbv

RT: 16.137 min Scan# 4209

Delta R.T. 0.035 min

Lab File: VL040124.D

Acq: 19 Jan 2023 22:04

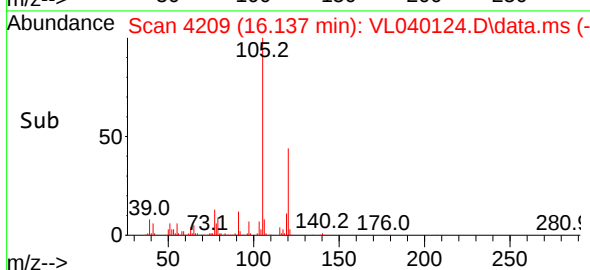
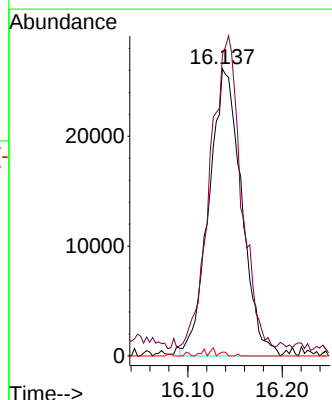
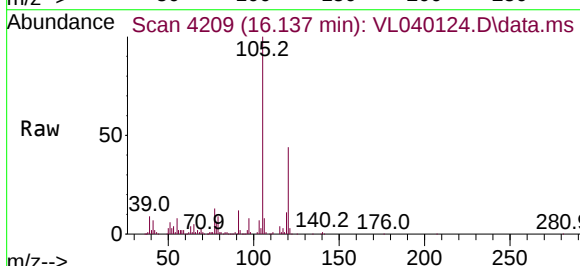
Tgt Ion:119 Resp: 62599

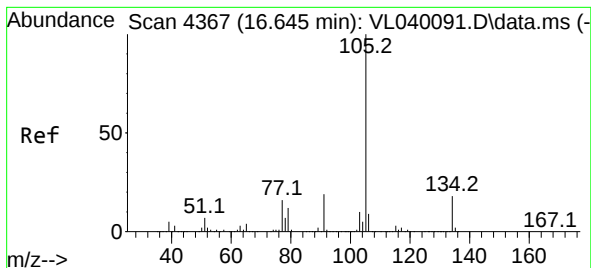
Ion Ratio Lower Upper

119 100

91 105.4 69.5 104.3#

134 1.3 15.8 23.8#

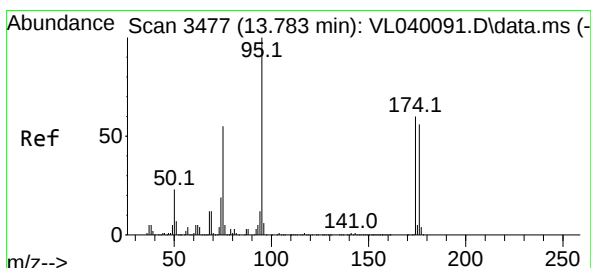
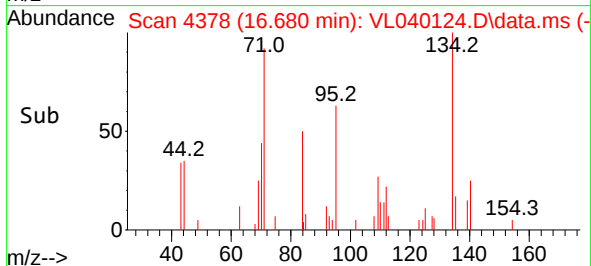
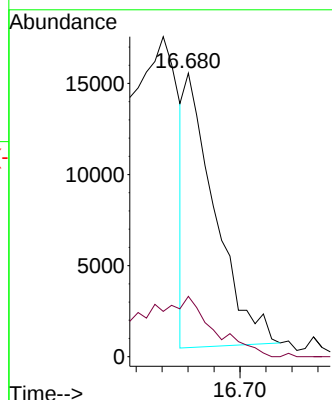
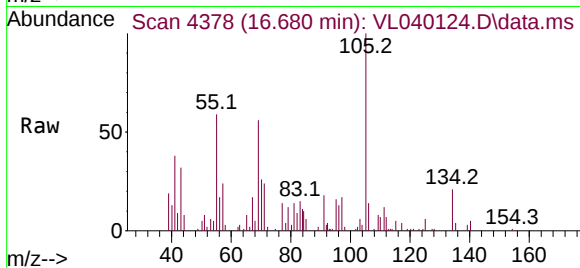




#67
 sec-Butylbenzene
 Concen: 0.030 ppbv
 RT: 16.680 min Scan# 41
 Delta R.T. 0.035 min
 Lab File: VL040124.D
 Acq: 19 Jan 2023 22:04

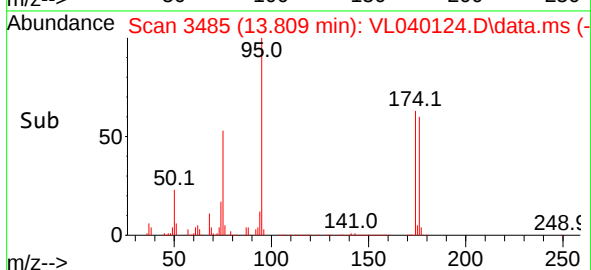
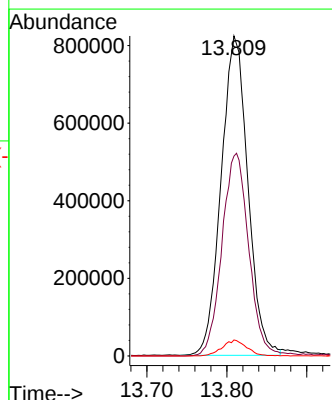
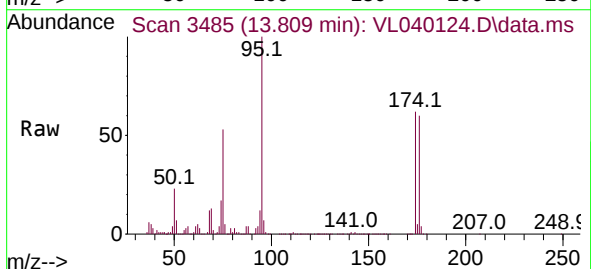
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-4

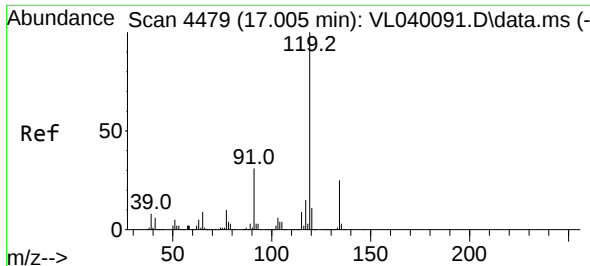
Tgt Ion:105 Resp: 12168
 Ion Ratio Lower Upper
 105 100
 134 62.6 14.1 21.1#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.573 ppbv
 RT: 13.809 min Scan# 3485
 Delta R.T. 0.026 min
 Lab File: VL040124.D
 Acq: 19 Jan 2023 22:04

Tgt Ion: 95 Resp: 1913287
 Ion Ratio Lower Upper
 95 100
 174 64.2 47.7 71.5
 175 4.7 3.4 5.2





#69

p-Isopropyltoluene

Concen: 0.061 ppbv

RT: 17.034 min Scan# 4479

Delta R.T. 0.029 min

Lab File: VL040124.D

Acq: 19 Jan 2023 22:04

Instrument :

MSVOA_L

ClientSampleId :

VP-4

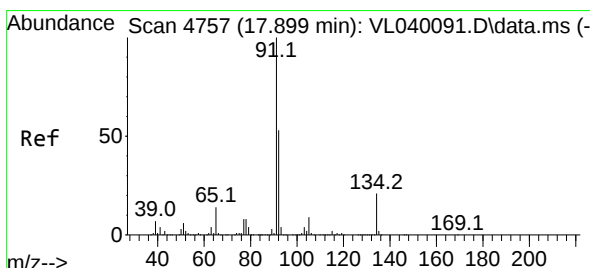
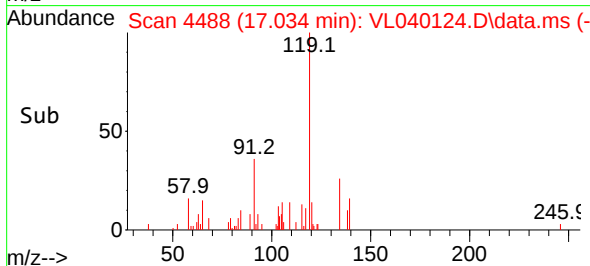
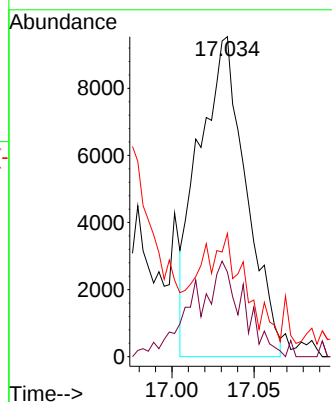
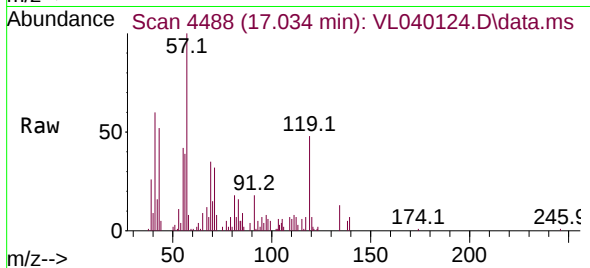
Tgt Ion:119 Resp: 19215

Ion Ratio Lower Upper

119 100

134 32.3 20.1 30.1#

91 30.1 25.0 37.4



#70

n-Butylbenzene

Concen: 0.075 ppbv

RT: 17.931 min Scan# 4767

Delta R.T. 0.032 min

Lab File: VL040124.D

Acq: 19 Jan 2023 22:04

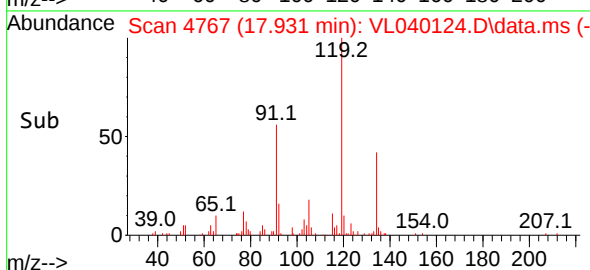
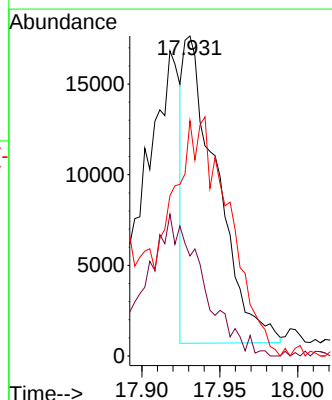
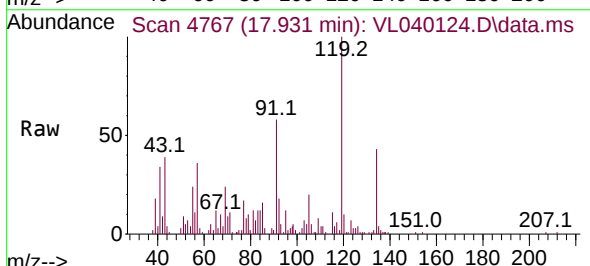
Tgt Ion: 91 Resp: 25274

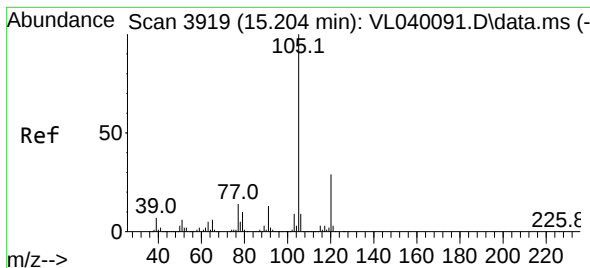
Ion Ratio Lower Upper

91 100

92 0.0 42.8 64.2#

134 192.2 16.9 25.3#

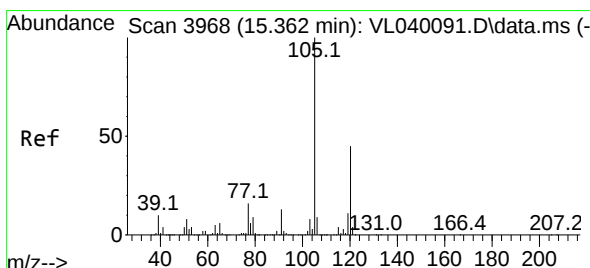
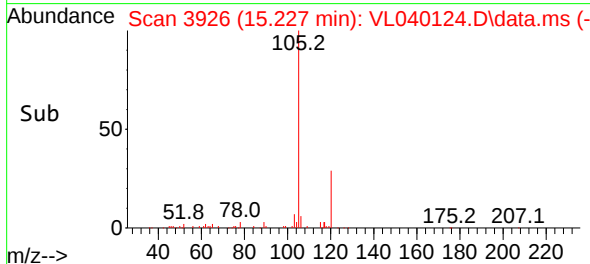
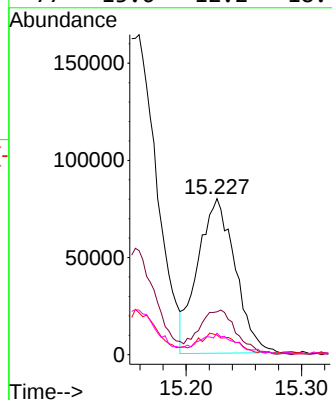
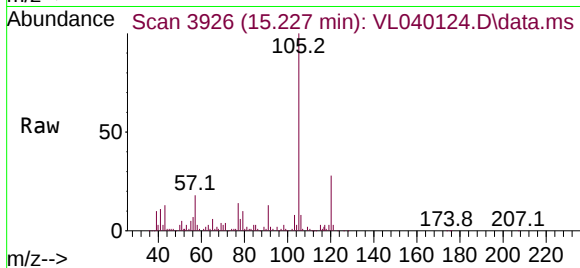




#72
4-Ethyltoluene
Concen: 0.705 ppbv
RT: 15.227 min Scan# 3919
Delta R.T. 0.022 min
Lab File: VL040124.D
Acq: 19 Jan 2023 22:04

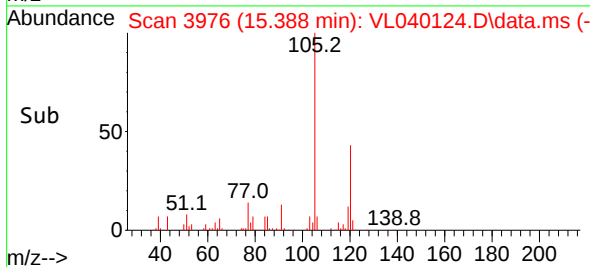
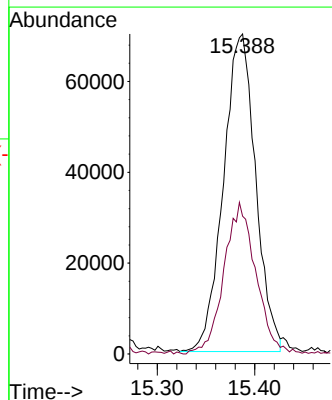
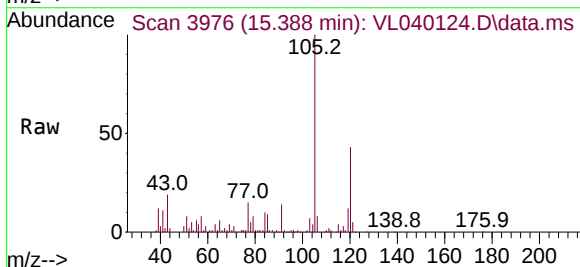
Instrument :
MSVOA_L
ClientSampleId :
VP-4

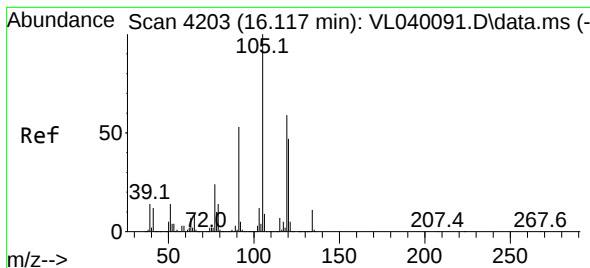
Tgt Ion	105	Resp:	179261
	Ratio	Lower	Upper
105	100		
120	30.8	23.1	34.7
91	12.8	11.2	16.8
77	13.6	12.2	18.4



#73
1,3,5-Trimethylbenzene
Concen: 0.702 ppbv
RT: 15.388 min Scan# 3976
Delta R.T. 0.026 min
Lab File: VL040124.D
Acq: 19 Jan 2023 22:04

Tgt Ion:105	Resp:	160752	
Ion	Ratio	Lower	Upper
105	100		
120	43.1	36.2	54.4





#74

1,2,4-Trimethylbenzene

Concen: 2.159 ppbv

RT: 16.137 min Scan# 41

Delta R.T. 0.019 min

Lab File: VL040124.D

Acq: 19 Jan 2023 22:04

Instrument :

MSVOA_L

ClientSampleId :

VP-4

Tgt Ion:105 Resp: 547346

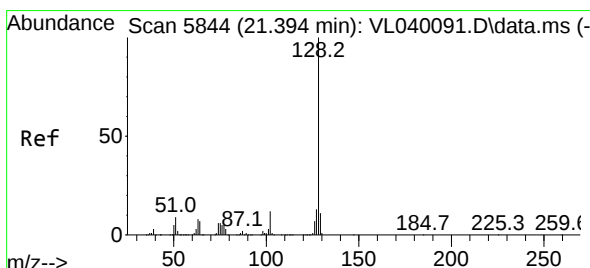
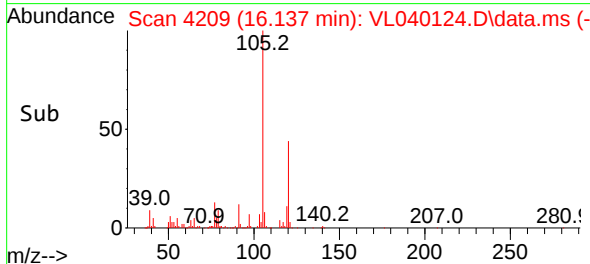
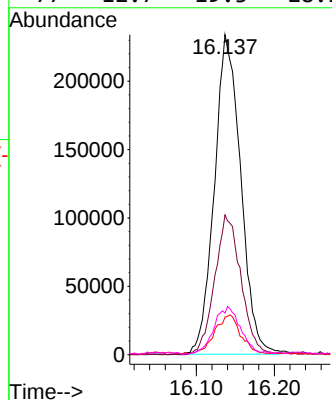
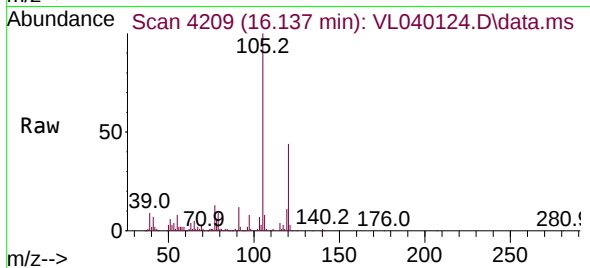
Ion Ratio Lower Upper

105 100

120 43.7 38.0 57.0

91 11.5 42.1 63.1#

77 12.7 19.3 28.9#



#79

Naphthalene

Concen: 0.420 ppbv

RT: 21.429 min Scan# 5855

Delta R.T. 0.035 min

Lab File: VL040124.D

Acq: 19 Jan 2023 22:04

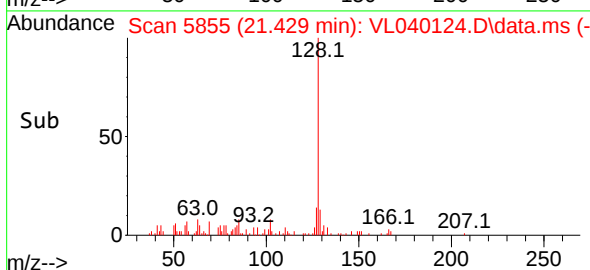
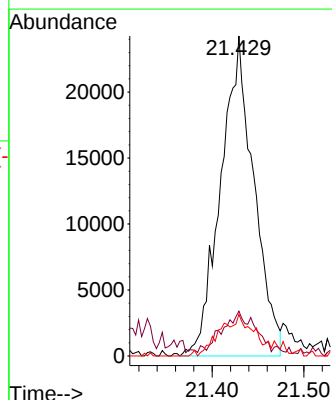
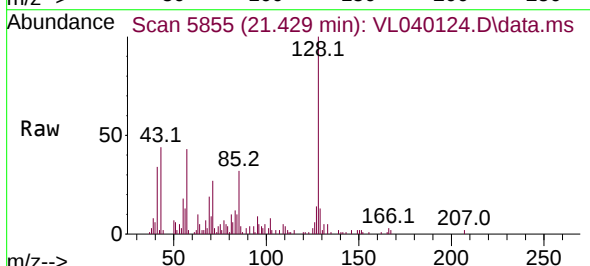
Tgt Ion:128 Resp: 60953

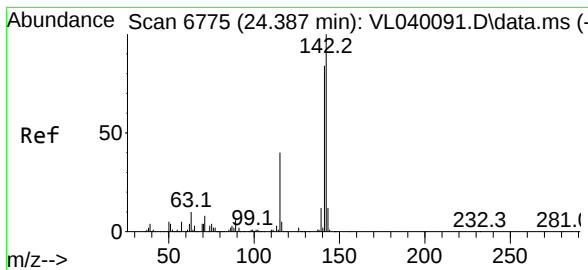
Ion Ratio Lower Upper

128 100

127 12.1 10.3 15.5

129 12.9 8.8 13.2





#80
Naphthalene, 2-methyl-
Concen: 0.044 ppbv
RT: 24.480 min Scan# 61
Delta R.T. 0.093 min
Lab File: VL040124.D
Acq: 19 Jan 2023 22:04

Instrument :
MSVOA_L
ClientSampleId :
VP-4

Tgt Ion:	142	Resp:	2164
Ion	Ratio	Lower	Upper
142	100		
141	99.2	65.0	97.6#
115	111.3	31.8	47.8#

