

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091823\
 Data File : VL040713.D
 Acq On : 19 Sep 2023 00:25
 Operator : SY/MD
 Sample : 04471-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Sep 19 05:24:23 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 19 05:12:43 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.201	49	1101243	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	3006387	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2617124	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	2235357	11.055	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.600%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.735	85	113664	0.468	ppbv	94
3) Chlorodifluoromethane	2.684	51	62450	0.348	ppbv #	85
4) Chloromethane	2.819	50	36432	0.530	ppbv	90
8) Dichlorotetrafluoroethane	2.864	85	6054	0.030	ppbv	91
9) Propene	2.709	41	102821	1.989	ppbv	85
10) Heptane	7.587	43	80607	0.692	ppbv	97
11) Trichlorofluoromethane	3.571	101	46857	0.220	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.076	101	11584	0.076	ppbv	96
13) Ethanol	3.243	45	976322	63.822	ppbv	100
15) Acetone	3.475	43	1364827	9.396	ppbv	97
16) 1,3-Butadiene	2.970	39	3929	0.062	ppbv #	9
17) tert-Butyl alcohol	3.896	59	14877	0.100	ppbv #	71
19) Isopropyl Alcohol	3.587	45	589542	6.736	ppbv	100
20) Methylene Chloride	3.941	84	51696	0.661	ppbv	95
21) Allyl Chloride	3.960	41	3757	0.042	ppbv #	1
23) Vinyl Acetate	4.619	43	59821	0.398	ppbv #	51
25) Ethyl Acetate	5.214	43	104757	0.447	ppbv #	89
26) Hexane	5.221	57	75334	0.680	ppbv #	71
29) Chloroform	5.282	83	39582	0.207	ppbv	96
30) Cyclohexane	6.610	84	13885	0.166	ppbv #	71
34) 2-Butanone	4.790	43	1549788	10.250	ppbv	99
36) Benzene	6.378	78	63798	0.287	ppbv #	94
39) 1,2-Dichloropropane	6.713	63	7381	0.086	ppbv #	16
43) Methyl Methacrylate	7.481	69	26068	0.315	ppbv	96
44) 2,2,4-Trimethylpentane	7.340	57	27833	0.079	ppbv #	41
50) 4-Methyl-2-Pentanone	8.195	43	7511	0.037	ppbv #	39
51) 2-Hexanone	9.539	43	57444	0.407	ppbv #	46
52) Tetrachloroethene	10.619	164	2871	0.040	ppbv #	28
53) Toluene	9.227	91	385380	1.640	ppbv	99
57) Chlorobenzene	11.542	112	92315	0.466	ppbv #	31
58) Ethyl Benzene	12.098	91	12389275	41.522	ppbv	89
59) m/p-Xylene	12.352	91	9589480	34.226	ppbv	92
60) o-Xylene	13.066	91	3439337	12.872	ppbv	100
61) Styrene	12.908	104	8697	0.078	ppbv #	18
62) Isopropylbenzene	14.037	105	222488	0.551	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.043	83	115500	0.552	ppbv #	24
64) n-propylbenzene	14.921	120	106936	1.060	ppbv	93
65) tert-Butylbenzene	16.124	119	382470	1.056	ppbv #	64
66) Benzyl Chloride	16.326	91	8915	0.211	ppbv #	1
67) sec-Butylbenzene	16.654	105	368281	0.710	ppbv	98
69) p-Isopropyltoluene	16.976	119	26498	0.065	ppbv #	46
70) n-Butylbenzene	17.911	91	900342	2.008	ppbv #	58
71) 2-Chlorotoluene	14.844	91	16312	0.055	ppbv #	45

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Quant Time: Sep 19 05:24:23 2023
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 19 05:12:43 2023
 Response via : Initial Calibration

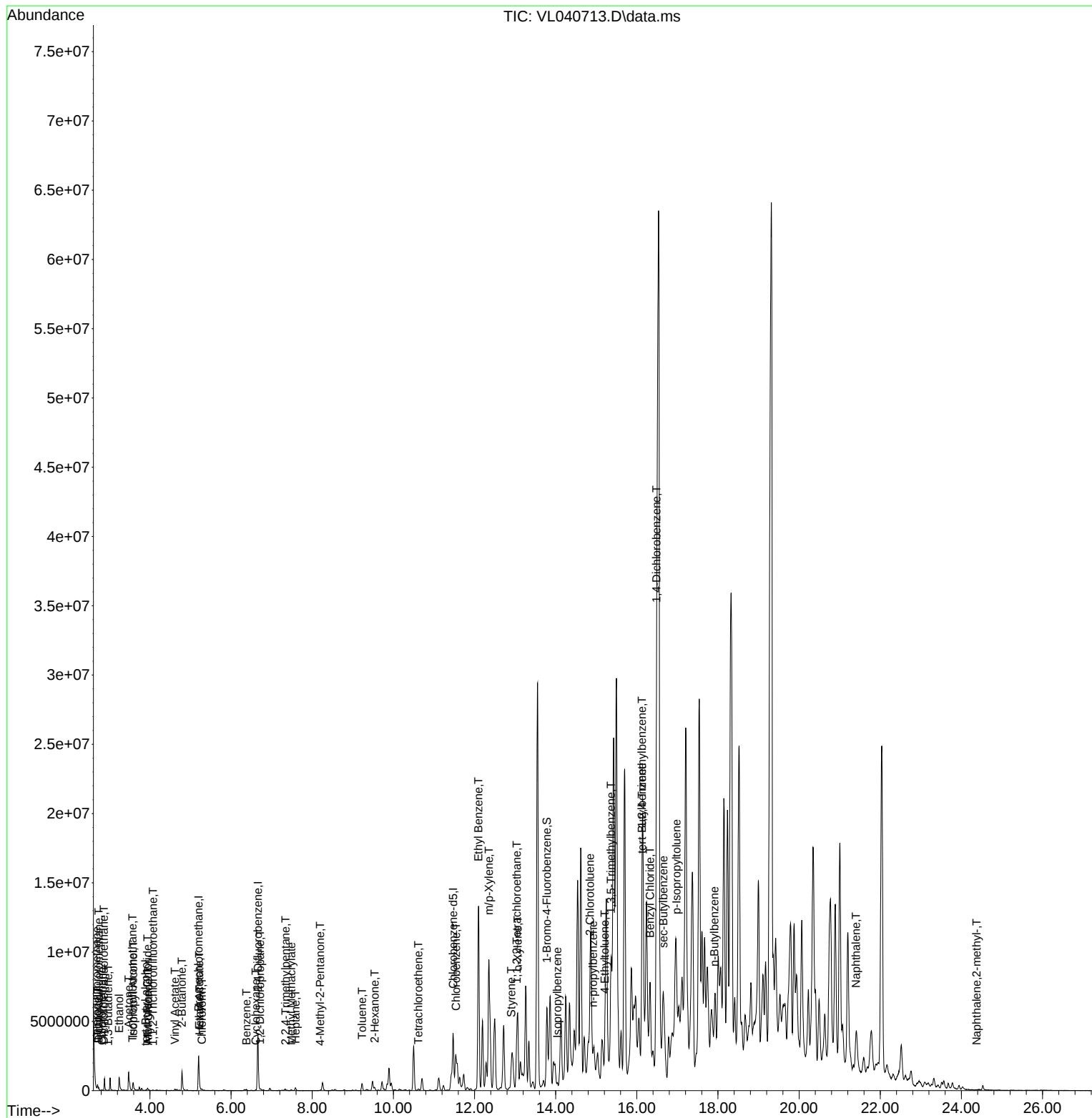
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 4-Ethyltoluene	15.207	105	557962	1.862	ppbv #	87
73) 1,3,5-Trimethylbenzene	15.365	105	1144846	4.243	ppbv	95
74) 1,2,4-Trimethylbenzene	16.127	105	3238420	9.846	ppbv #	65
76) 1,4-Dichlorobenzene	16.487	146	114378	0.620	ppbv #	1
79) Naphthalene	21.403	128	196619	0.961	ppbv	97
80) Naphthalene,2-methyl-	24.374	142	10489	0.209	ppbv	90

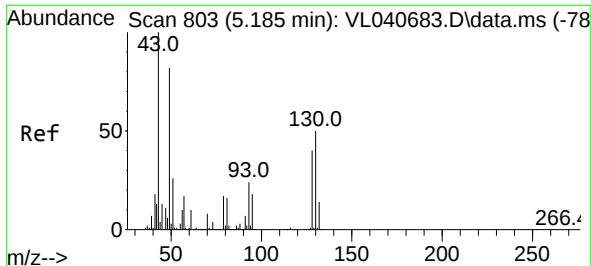
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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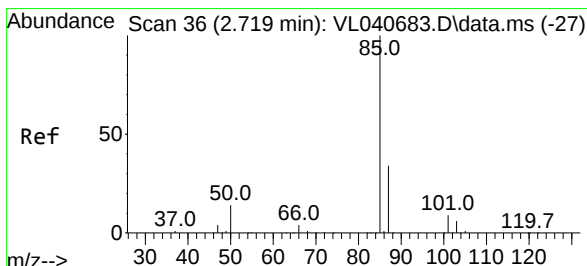
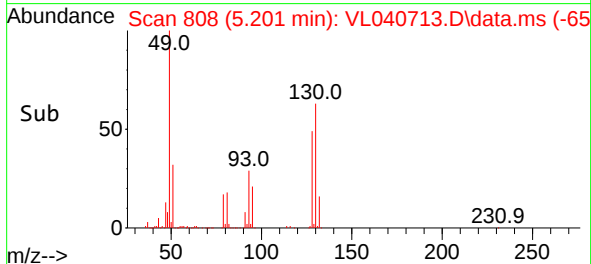
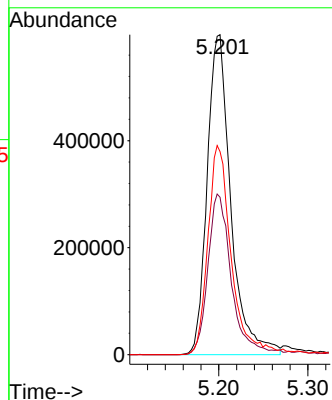
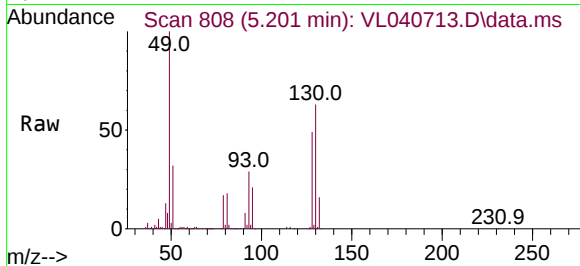




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.201 min Scan# 80
 Delta R.T. 0.003 min
 Lab File: VL040713.D
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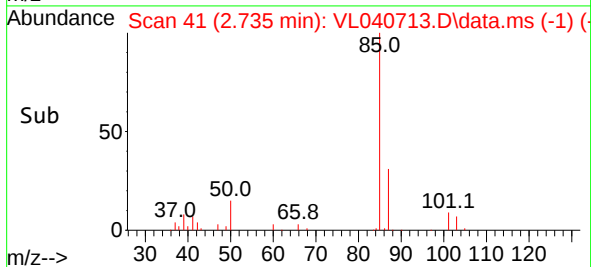
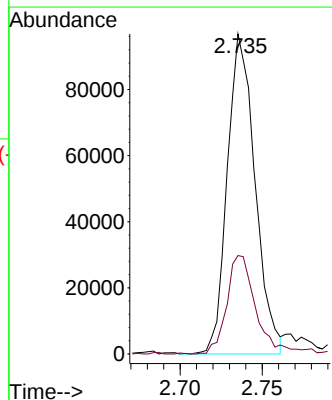
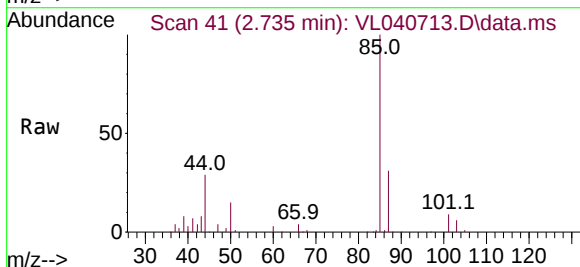
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

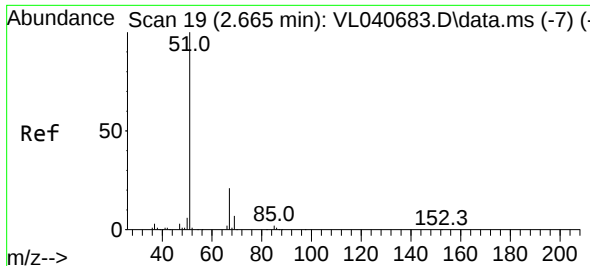
Tgt Ion: 49 Resp: 1101243
 Ion Ratio Lower Upper
 49 100
 128 51.9 25.4 76.0
 130 66.4 32.3 96.8



#2
 Dichlorodifluoromethane
 Concen: 0.468 ppbv
 RT: 2.735 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL040713.D
 Acq: 19 Sep 2023 00:25

Tgt Ion: 85 Resp: 113664
 Ion Ratio Lower Upper
 85 100
 87 30.4 27.2 40.8

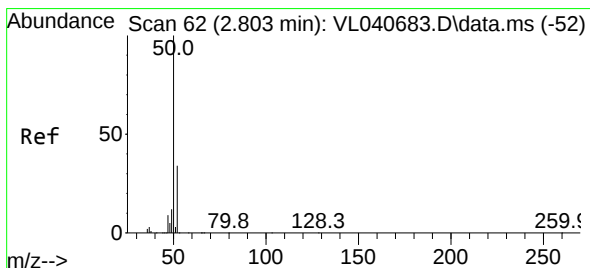
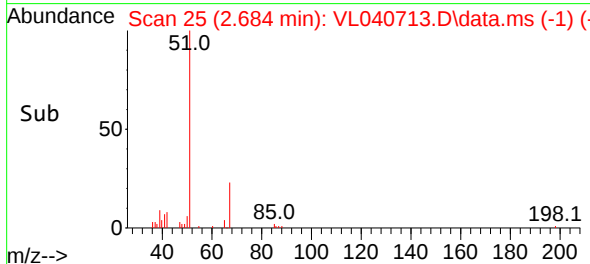
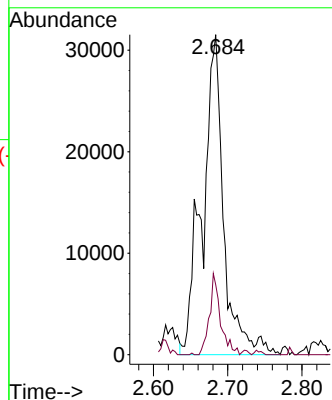
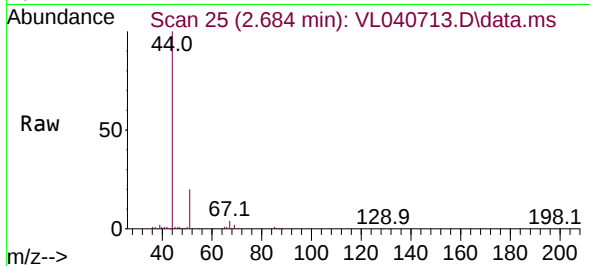




#3
Chlorodifluoromethane
Concen: 0.348 ppbv
RT: 2.684 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL040713.D
Acq: 19 Sep 2023 00:25

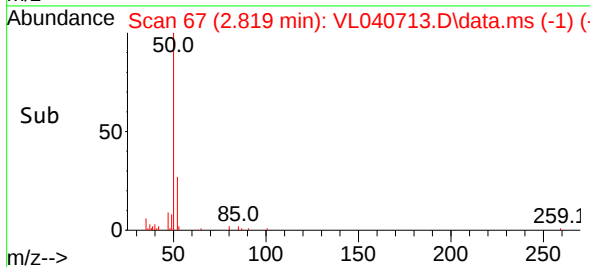
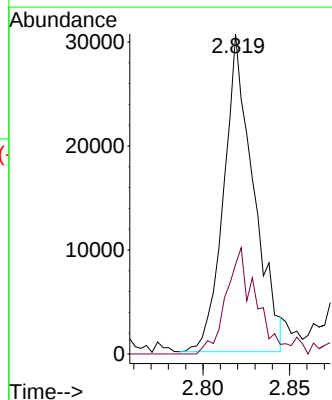
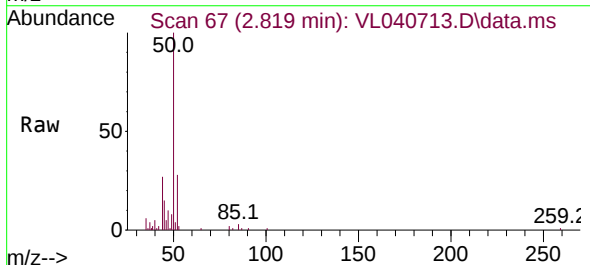
Instrument :
MSVOA_L
ClientSampleId :
IA1

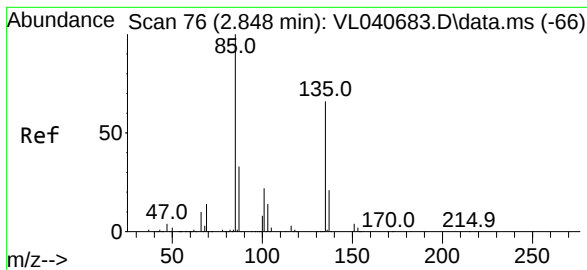
Tgt Ion: 51 Resp: 62450
Ion Ratio Lower Upper
51 100
67 14.0 16.7 25.1#



#4
Chloromethane
Concen: 0.530 ppbv
RT: 2.819 min Scan# 67
Delta R.T. 0.003 min
Lab File: VL040713.D
Acq: 19 Sep 2023 00:25

Tgt Ion: 50 Resp: 36432
Ion Ratio Lower Upper
50 100
52 28.2 27.1 40.7

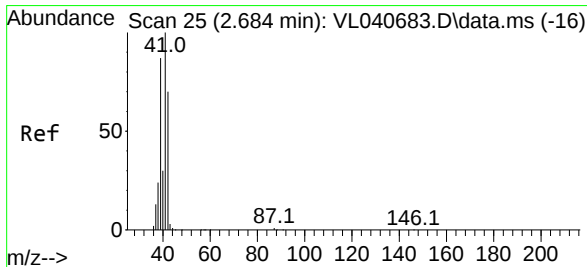
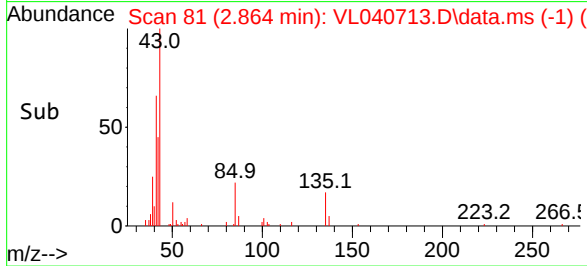
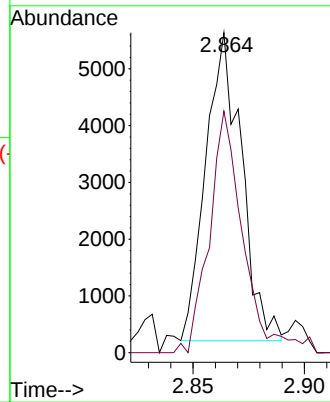
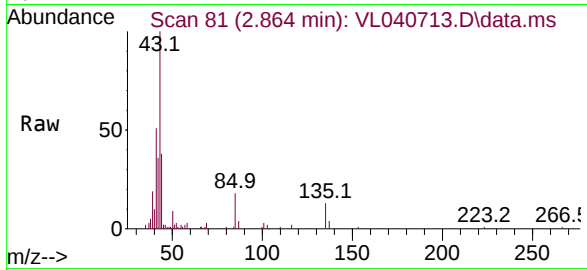




#8
 Dichlorotetrafluoroethane
 Concen: 0.030 ppbv
 RT: 2.864 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL040713.D
 Acq: 19 Sep 2023 00:25

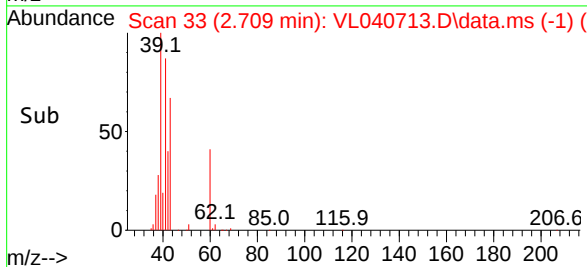
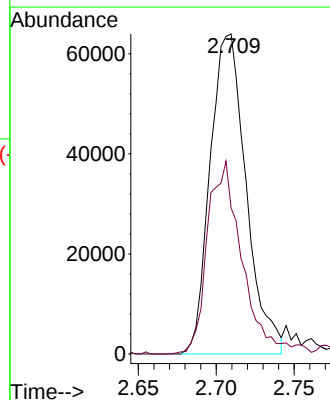
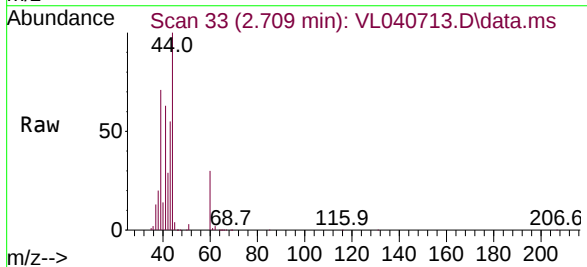
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

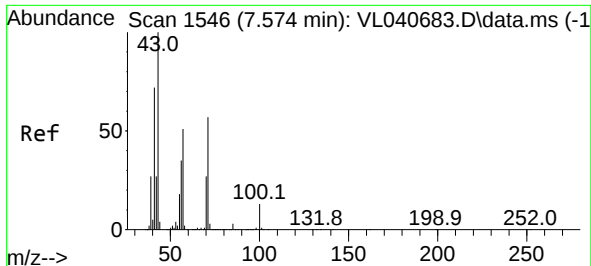
Tgt Ion: 85 Resp: 6054
 Ion Ratio Lower Upper
 85 100
 135 74.3 53.4 80.2



#9
 Propene
 Concen: 1.989 ppbv
 RT: 2.709 min Scan# 33
 Delta R.T. 0.013 min
 Lab File: VL040713.D
 Acq: 19 Sep 2023 00:25

Tgt Ion: 41 Resp: 102821
 Ion Ratio Lower Upper
 41 100
 42 58.1 56.7 85.1

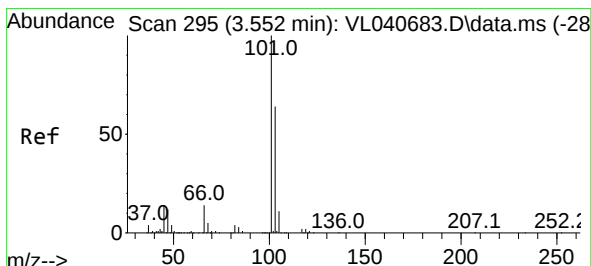
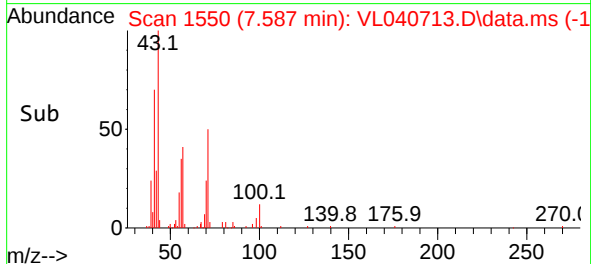
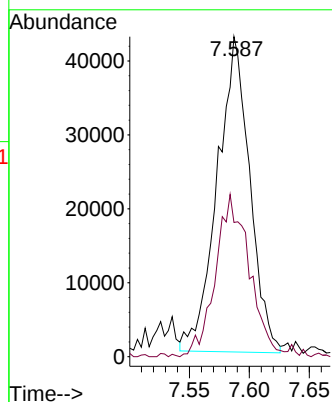
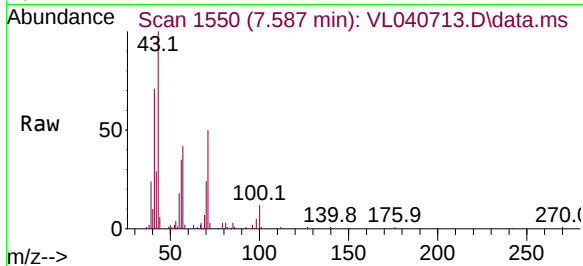




#10
 Heptane
 Concen: 0.692 ppbv
 RT: 7.587 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VL040713.D
 Acq: 19 Sep 2023 00:25

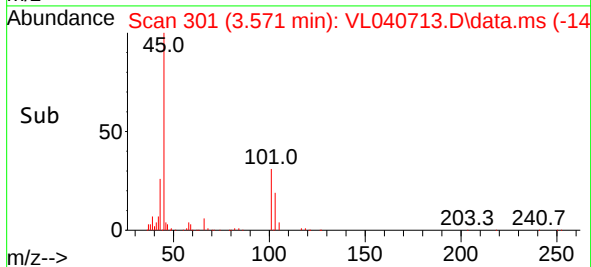
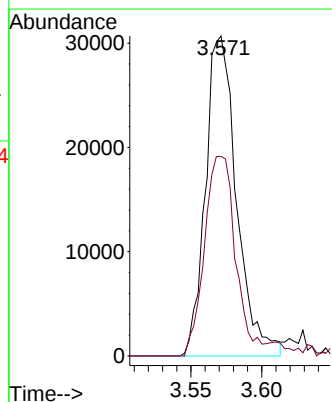
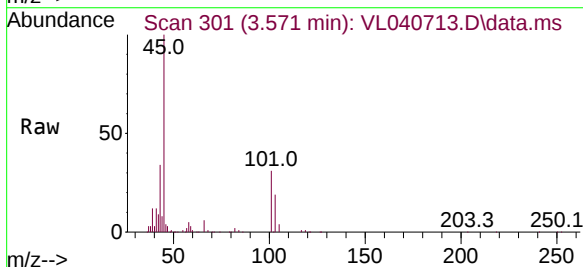
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

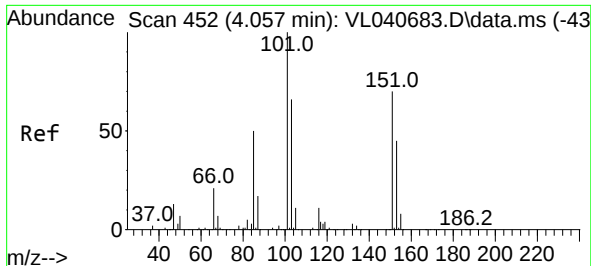
Tgt Ion: 43 Resp: 80607
 Ion Ratio Lower Upper
 43 100
 57 54.6 41.8 62.6



#11
 Trichlorofluoromethane
 Concen: 0.220 ppbv
 RT: 3.571 min Scan# 301
 Delta R.T. 0.003 min
 Lab File: VL040713.D
 Acq: 19 Sep 2023 00:25

Tgt Ion: 101 Resp: 46857
 Ion Ratio Lower Upper
 101 100
 103 62.4 51.3 76.9





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.076 ppbv

RT: 4.076 min Scan# 4

Delta R.T. 0.003 min

Lab File: VL040713.D

Acq: 19 Sep 2023 00:25

Instrument :

MSVOA_L

ClientSampleId :

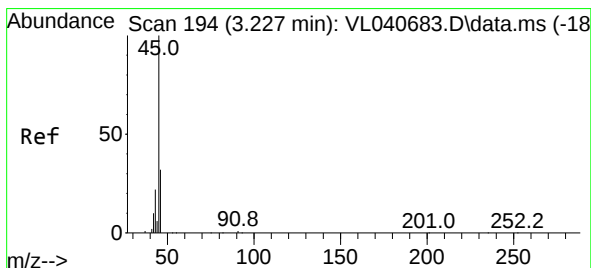
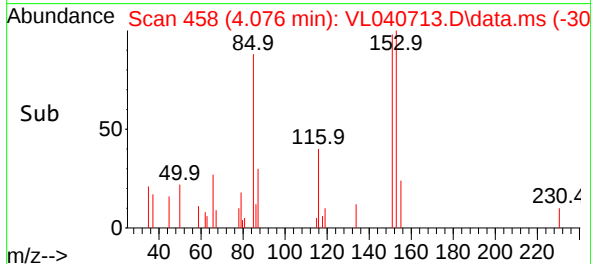
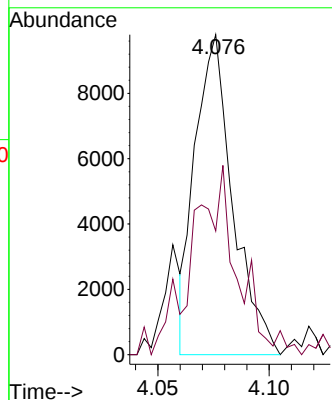
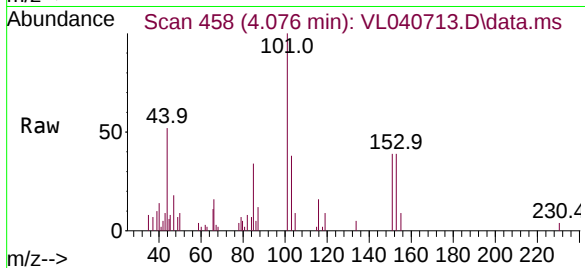
IA1

Tgt Ion:101 Resp: 11584

Ion Ratio Lower Upper

101 100

151 74.1 56.8 85.2



#13

Ethanol

Concen: 63.822 ppbv

RT: 3.243 min Scan# 199

Delta R.T. -0.000 min

Lab File: VL040713.D

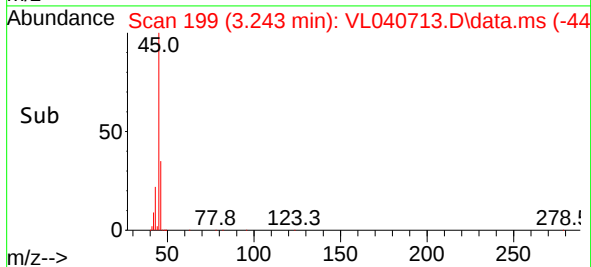
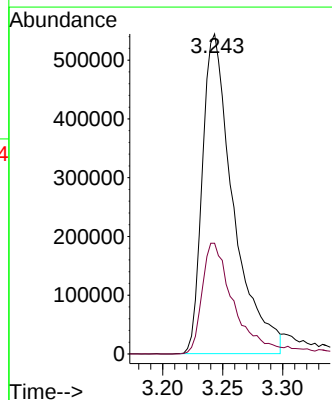
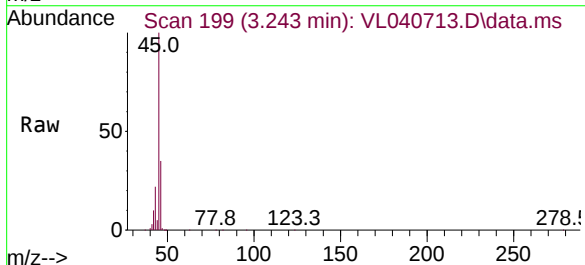
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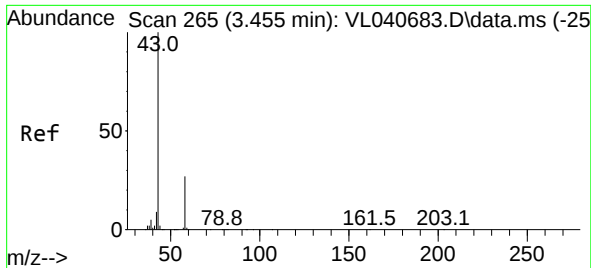
Tgt Ion: 45 Resp: 976322

Ion Ratio Lower Upper

45 100

46 38.1 15.2 61.0

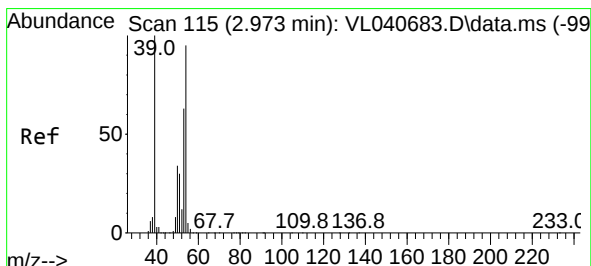
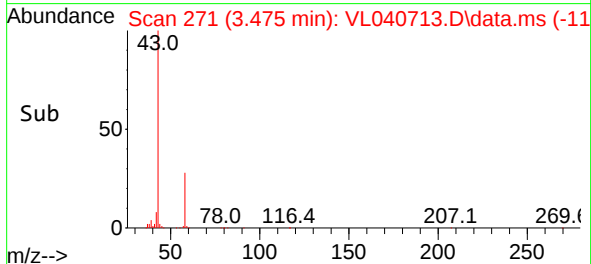
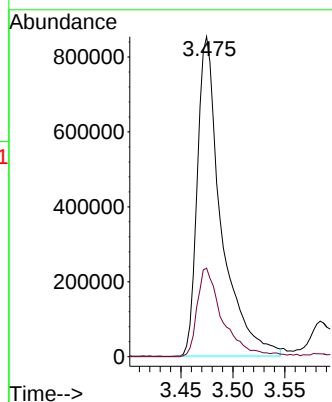
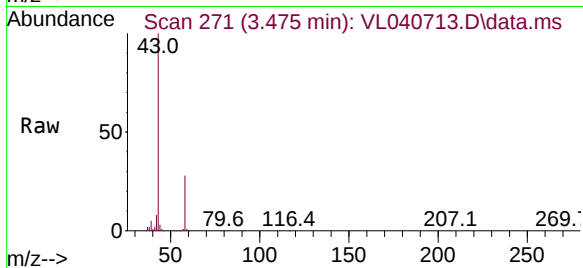




#15
Acetone
Concen: 9.396 ppbv
RT: 3.475 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL040713.D
Acq: 19 Sep 2023 00:25

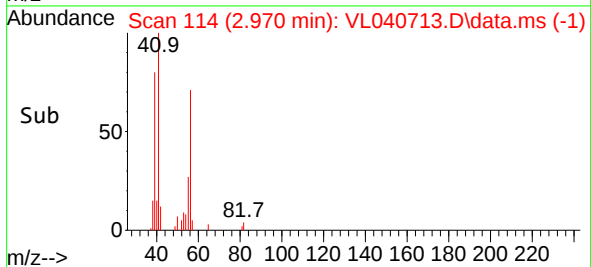
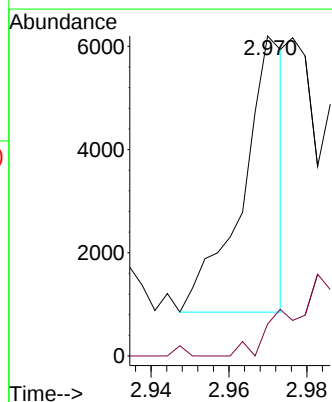
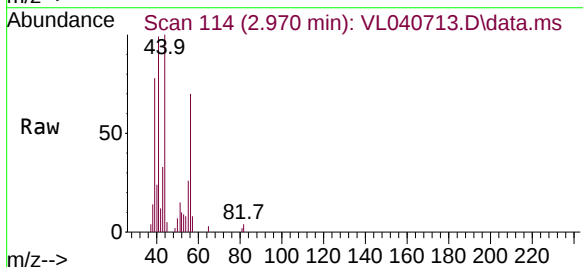
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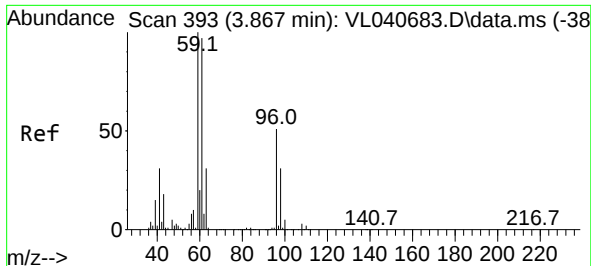
Tgt Ion: 43 Resp: 1364827
Ion Ratio Lower Upper
43 100
58 29.9 22.6 34.0



#16
1,3-Butadiene
Concen: 0.062 ppbv
RT: 2.970 min Scan# 114
Delta R.T. -0.019 min
Lab File: VL040713.D
Acq: 19 Sep 2023 00:25

Tgt Ion: 39 Resp: 3929
Ion Ratio Lower Upper
39 100
54 0.0 64.8 97.2#





#17

tert-Butyl alcohol

Concen: 0.100 ppbv

RT: 3.896 min Scan# 402

Delta R.T. 0.013 min

Lab File: VL040713.D

Acq: 19 Sep 2023 00:25

Instrument :

MSVOA_L

ClientSampleId :

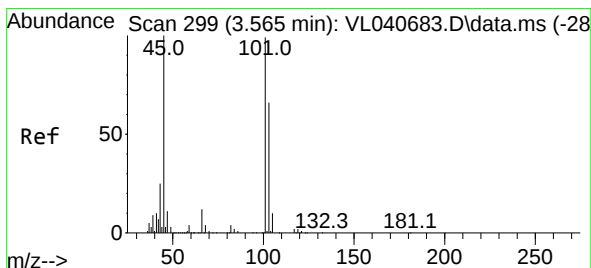
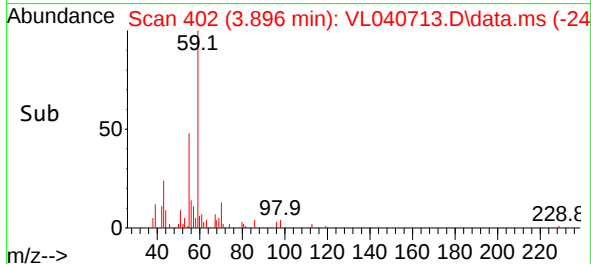
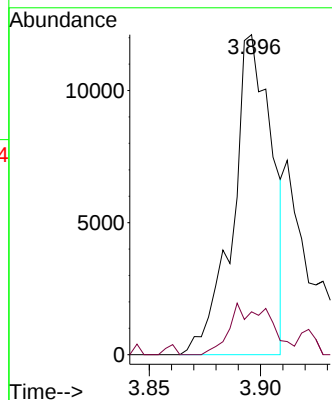
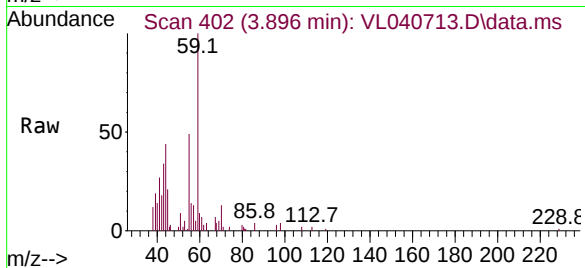
IA1

Tgt Ion: 59 Resp: 14877

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



#19

Isopropyl Alcohol

Concen: 6.736 ppbv

RT: 3.587 min Scan# 306

Delta R.T. 0.010 min

Lab File: VL040713.D

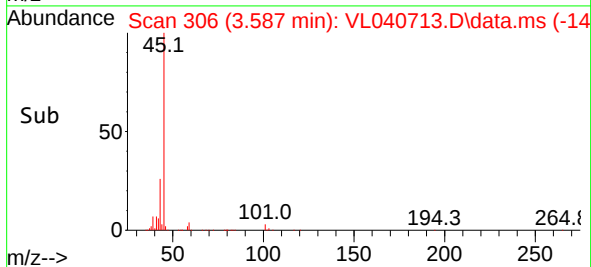
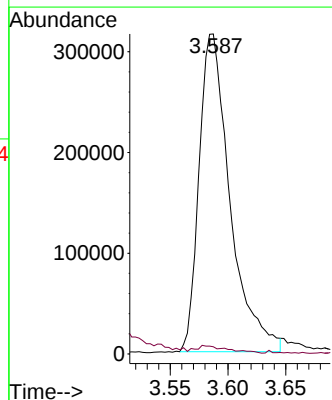
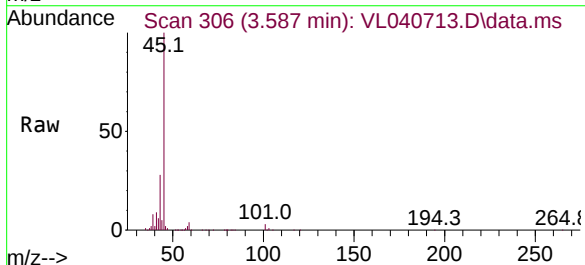
Acq: 19 Sep 2023 00:25

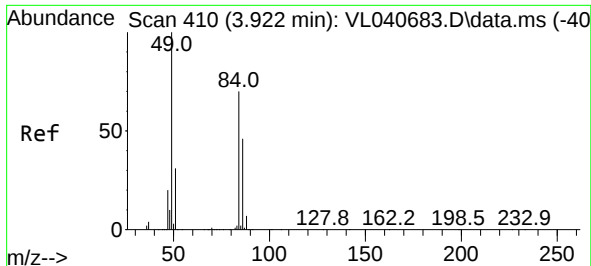
Tgt Ion: 45 Resp: 589542

Ion Ratio Lower Upper

45 100

58 2.2 1.9 2.9

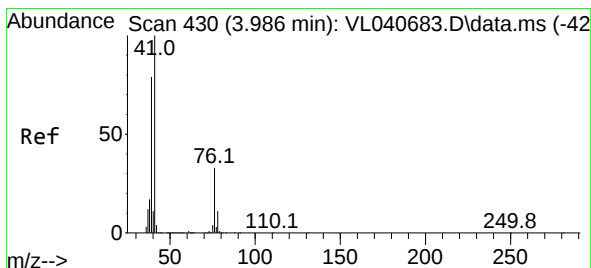
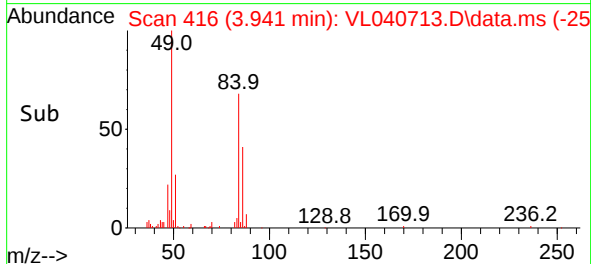
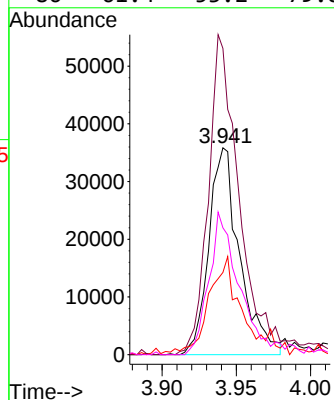
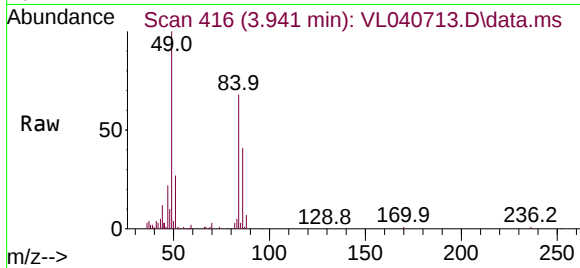




#20
Methylene Chloride
Concen: 0.661 ppbv
RT: 3.941 min Scan# 410
Delta R.T. 0.003 min
Lab File: VL040713.D
Acq: 19 Sep 2023 00:25

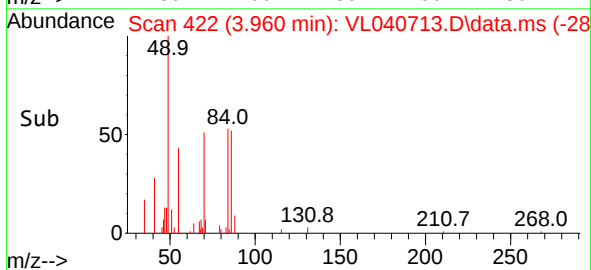
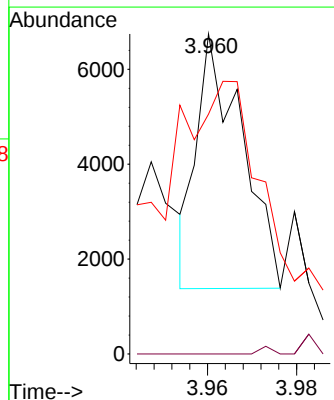
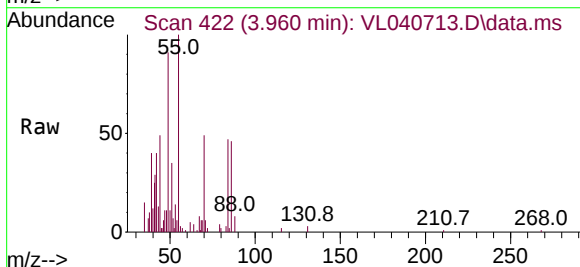
Instrument :
MSVOA_L
ClientSampleId :
IA1

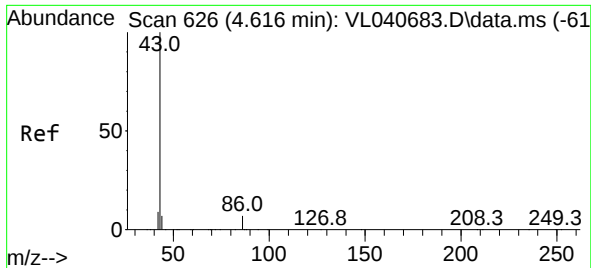
Tgt Ion: 84 Resp: 51696
Ion Ratio Lower Upper
84 100
49 146.5 114.4 171.6
51 37.9 35.5 53.3
86 61.4 53.2 79.8



#21
Allyl Chloride
Concen: 0.042 ppbv
RT: 3.960 min Scan# 422
Delta R.T. -0.042 min
Lab File: VL040713.D
Acq: 19 Sep 2023 00:25

Tgt Ion: 41 Resp: 3757
Ion Ratio Lower Upper
41 100
76 18.5 26.6 40.0#
39 358.4 65.0 97.4#



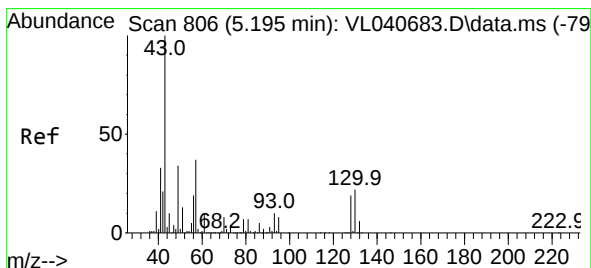
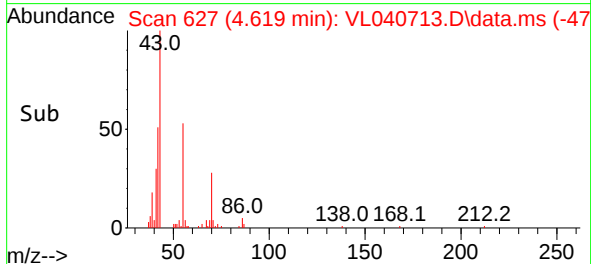
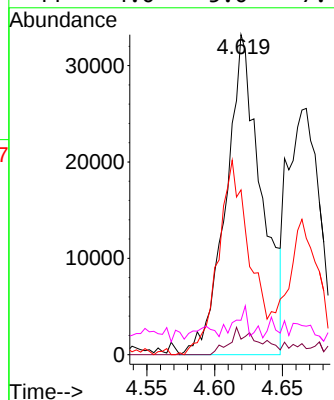
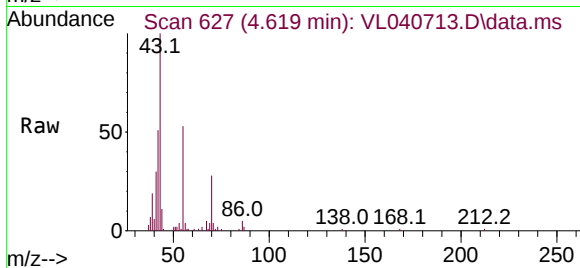


#23
 Vinyl Acetate
 Concen: 0.398 ppbv
 RT: 4.619 min Scan# 61
 Delta R.T. -0.013 min
 Lab File: VL040713.D
 Acq: 19 Sep 2023 00:25

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Tgt Ion: 43 Resp: 59821

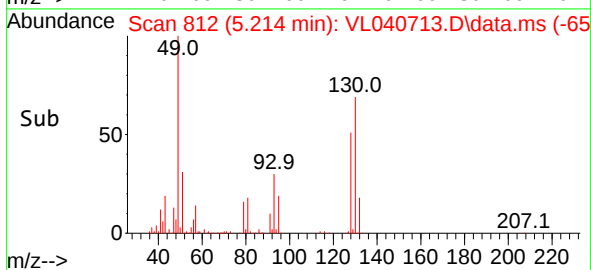
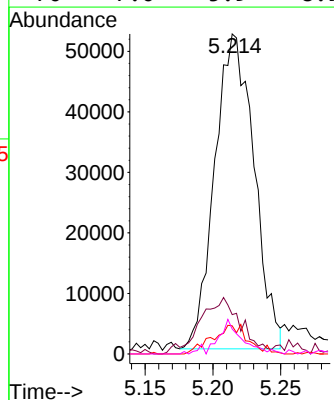
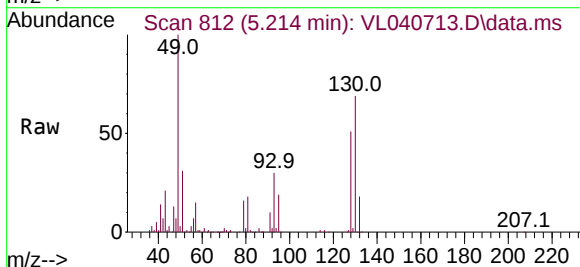
Ion	Ratio	Lower	Upper
43	100		
86	6.6	5.6	8.4
42	50.9	7.6	11.4#
44	4.0	5.0	7.4#

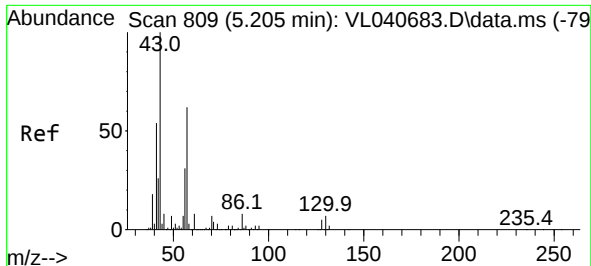


#25
 Ethyl Acetate
 Concen: 0.447 ppbv
 RT: 5.214 min Scan# 812
 Delta R.T. 0.003 min
 Lab File: VL040713.D
 Acq: 19 Sep 2023 00:25

Tgt Ion: 43 Resp: 104757

Ion	Ratio	Lower	Upper
43	100		
45	19.2	8.2	12.4#
61	8.5	8.2	12.4
70	7.0	5.9	8.9

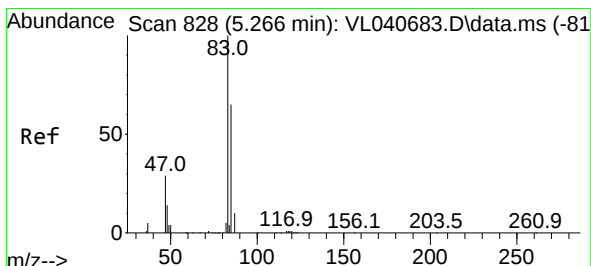
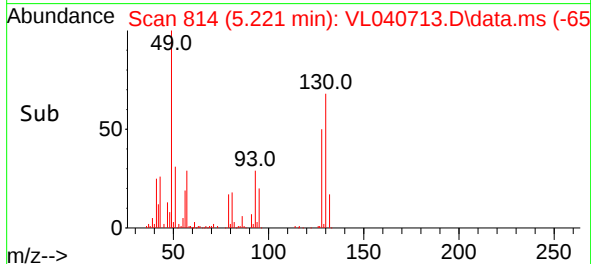
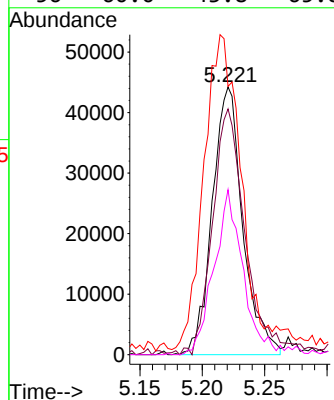
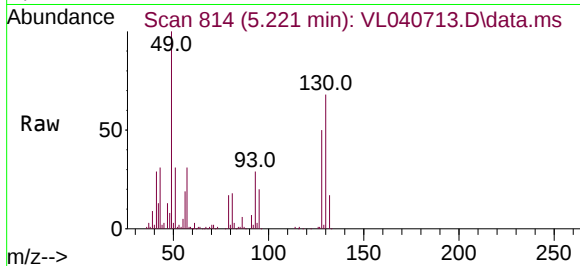




#26
Hexane
Concen: 0.680 ppbv
RT: 5.221 min Scan# 814
Delta R.T. -0.000 min
Lab File: VL040713.D
Acq: 19 Sep 2023 00:25

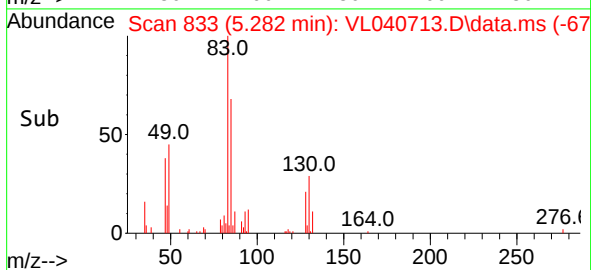
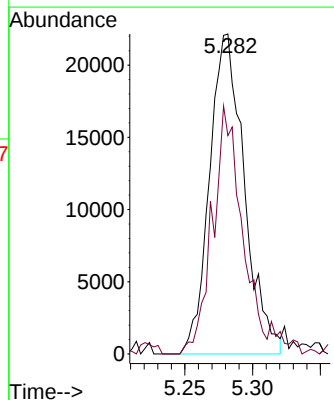
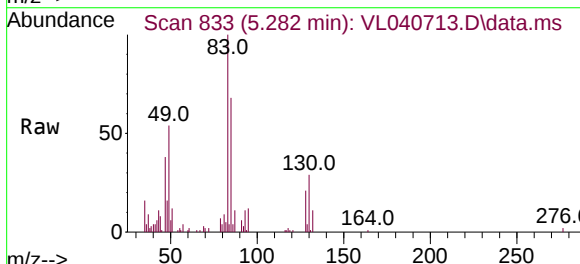
Instrument :
MSVOA_L
ClientSampleId :
IA1

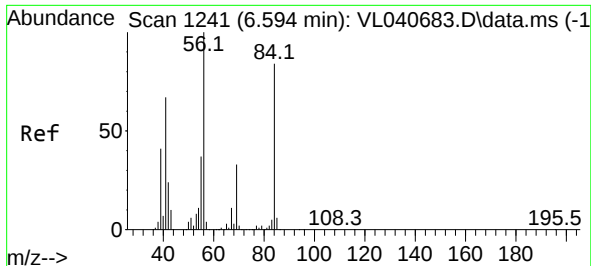
Tgt Ion: 57 Resp: 75334
Ion Ratio Lower Upper
57 100
41 100.1 75.2 112.8
43 158.8 185.6 278.4#
56 60.0 43.8 65.8



#29
Chloroform
Concen: 0.207 ppbv
RT: 5.282 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL040713.D
Acq: 19 Sep 2023 00:25

Tgt Ion: 83 Resp: 39582
Ion Ratio Lower Upper
83 100
85 68.3 51.8 77.8

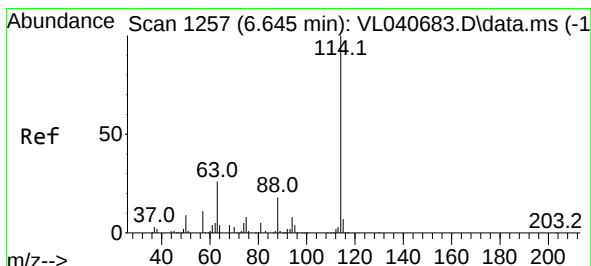
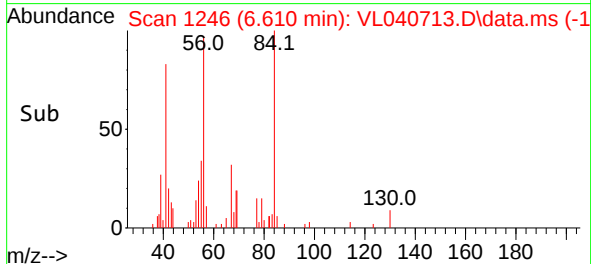
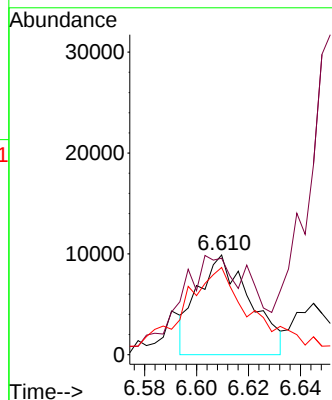
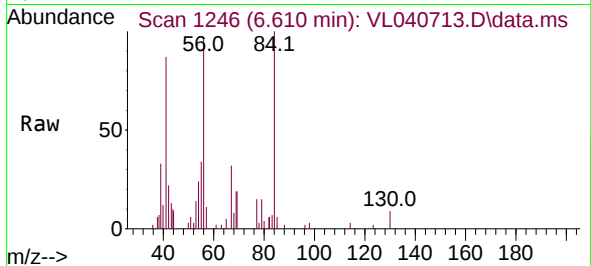




#30
Cyclohexane
Concen: 0.166 ppbv
RT: 6.610 min Scan# 1246
Delta R.T. -0.000 min
Lab File: VL040713.D
Acq: 19 Sep 2023 00:25

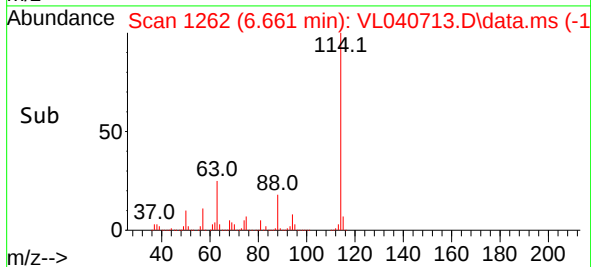
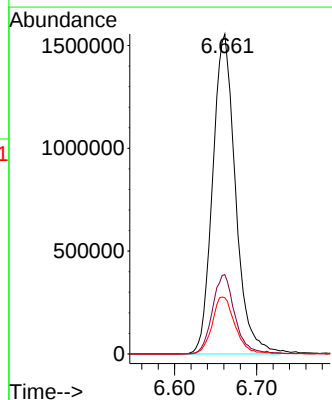
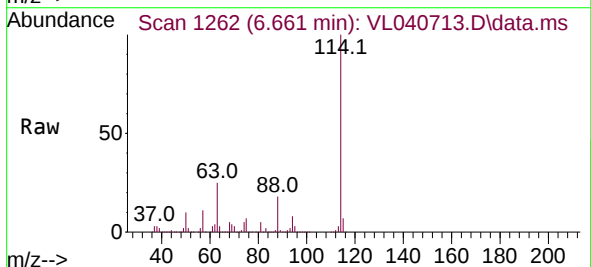
Instrument :
MSVOA_L
ClientSampleId :
IA1

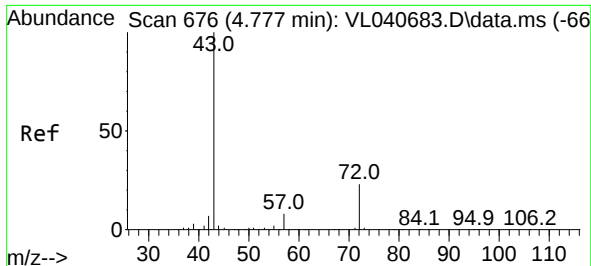
Tgt Ion: 84 Resp: 13885
Ion Ratio Lower Upper
84 100
56 138.7 103.2 154.8
41 135.8 65.5 98.3#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.661 min Scan# 1262
Delta R.T. -0.000 min
Lab File: VL040713.D
Acq: 19 Sep 2023 00:25

Tgt Ion: 114 Resp: 3006387
Ion Ratio Lower Upper
114 100
63 24.7 21.1 31.7
88 18.0 14.5 21.7

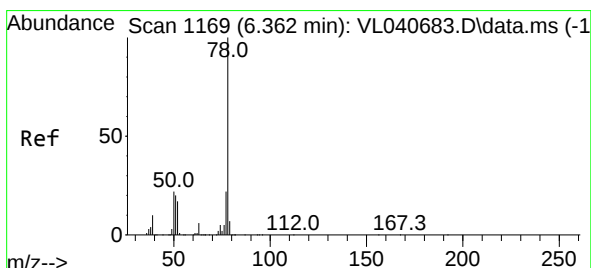
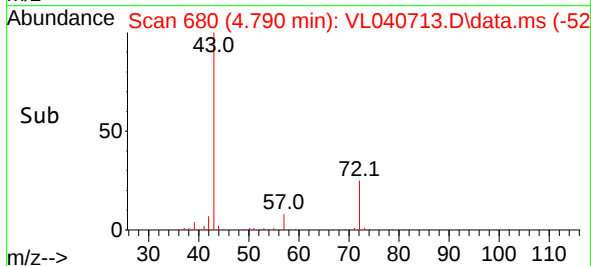
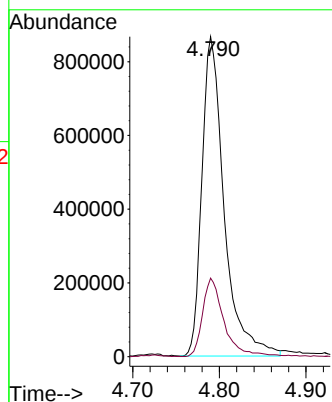
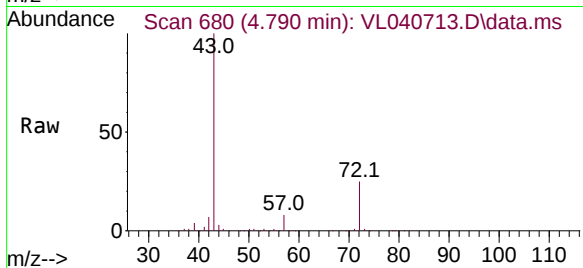




#34
2-Butanone
Concen: 10.250 ppbv
RT: 4.790 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL040713.D
Acq: 19 Sep 2023 00:25

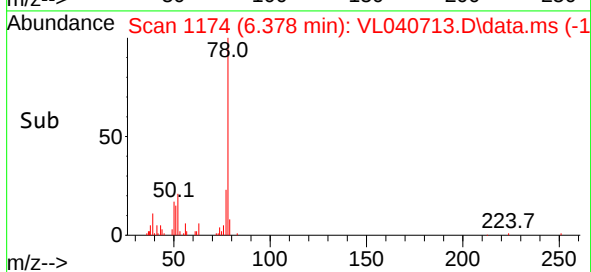
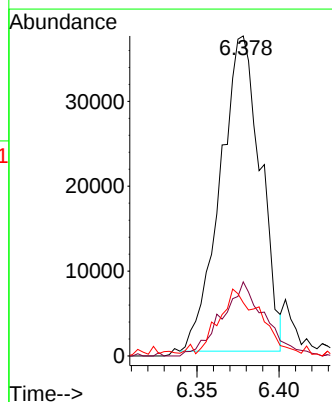
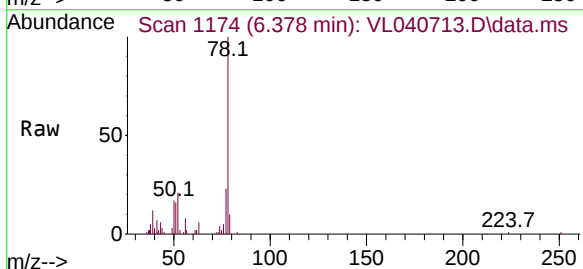
Instrument :
MSVOA_L
ClientSampleId :
IA1

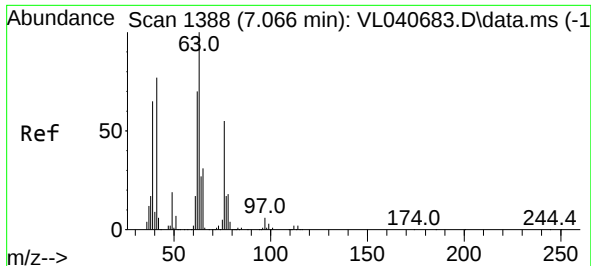
Tgt Ion: 43 Resp: 1549788
Ion Ratio Lower Upper
43 100
72 23.8 18.6 27.8



#36
Benzene
Concen: 0.287 ppbv
RT: 6.378 min Scan# 1174
Delta R.T. -0.003 min
Lab File: VL040713.D
Acq: 19 Sep 2023 00:25

Tgt Ion: 78 Resp: 63798
Ion Ratio Lower Upper
78 100
77 22.6 17.9 26.9
50 16.1 17.3 25.9#





#39

1,2-Dichloropropane

Concen: 0.086 ppbv

RT: 6.713 min Scan# 11

Delta R.T. -0.370 min

Lab File: VL040713.D

Acq: 19 Sep 2023 00:25

Instrument :

MSVOA_L

ClientSampleId :

IA1

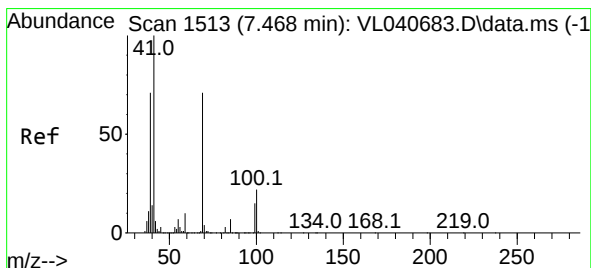
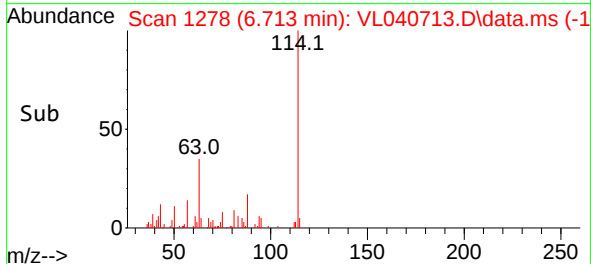
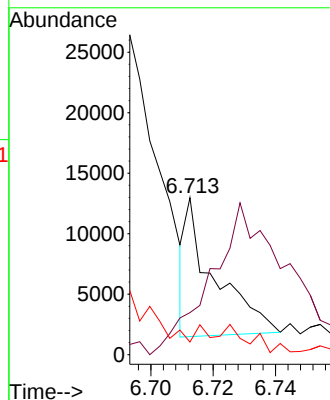
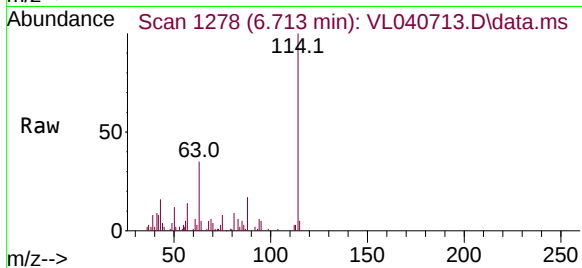
Tgt Ion: 63 Resp: 7381

Ion Ratio Lower Upper

63 100

41 4.0 61.6 92.4#

62 1.0 55.8 83.8#



#43

Methyl Methacrylate

Concen: 0.315 ppbv

RT: 7.481 min Scan# 1517

Delta R.T. -0.000 min

Lab File: VL040713.D

Acq: 19 Sep 2023 00:25

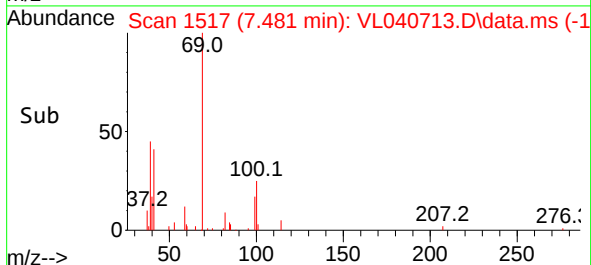
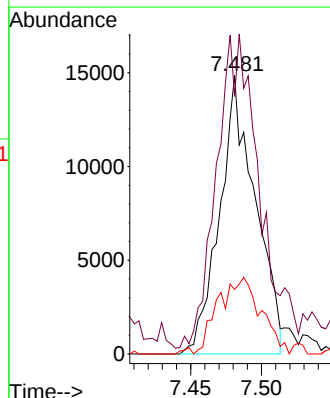
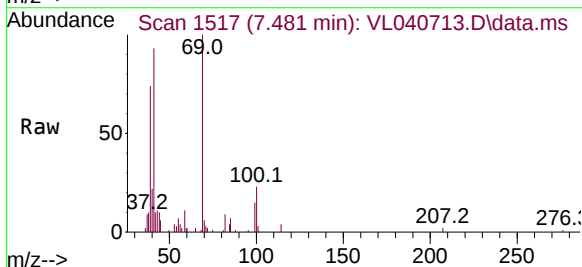
Tgt Ion: 69 Resp: 26068

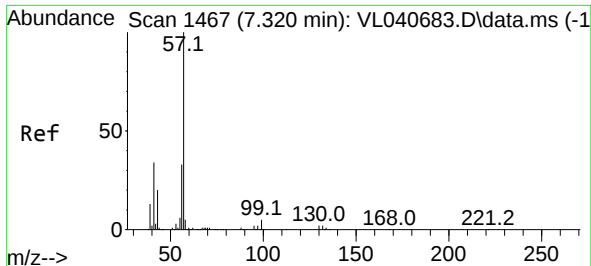
Ion Ratio Lower Upper

69 100

41 146.2 113.8 170.8

100 34.6 25.4 38.0





#44

2,2,4-Trimethylpentane

Concen: 0.079 ppbv

RT: 7.340 min Scan# 1467

Delta R.T. 0.003 min

Lab File: VL040713.D

Acq: 19 Sep 2023 00:25

Instrument :

MSVOA_L

ClientSampleId :

IA1

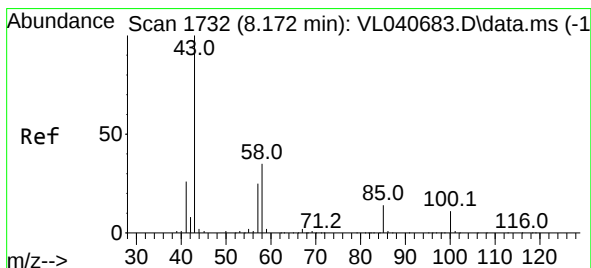
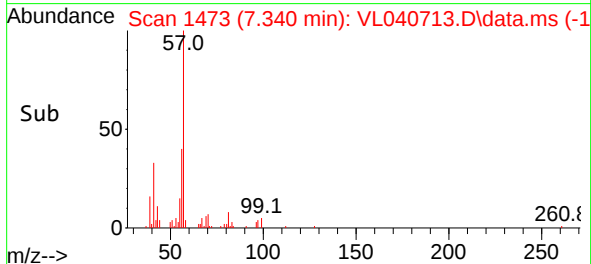
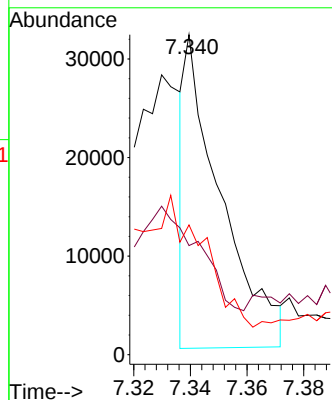
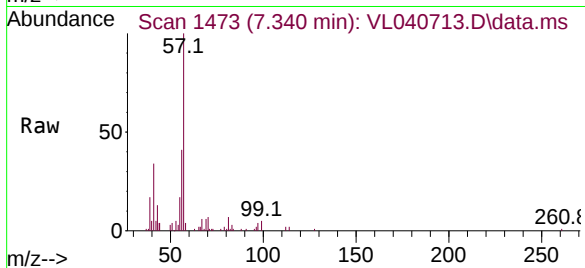
Tgt Ion: 57 Resp: 27833

Ion Ratio Lower Upper

57 100

41 0.0 28.5 42.7#

56 0.0 25.4 38.2#



#50

4-Methyl-2-Pentanone

Concen: 0.037 ppbv

RT: 8.195 min Scan# 1739

Delta R.T. 0.003 min

Lab File: VL040713.D

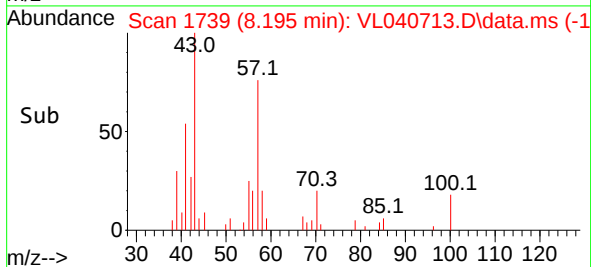
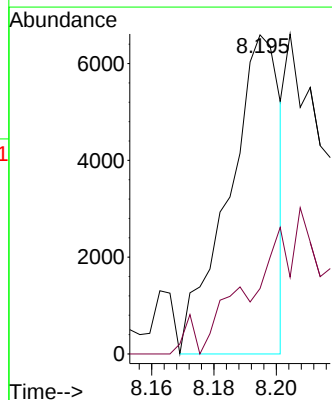
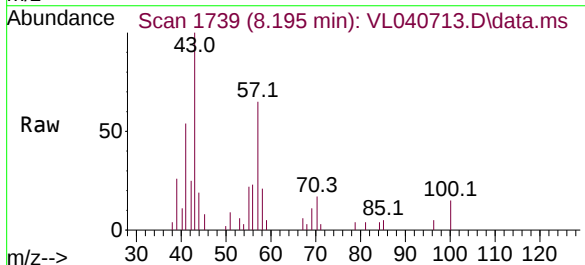
Acq: 19 Sep 2023 00:25

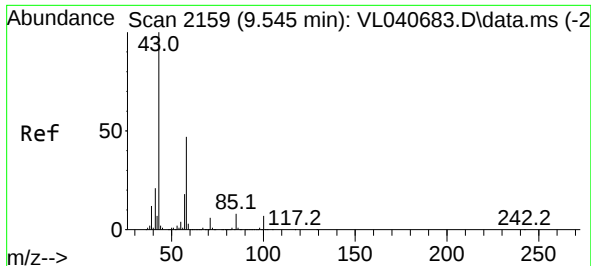
Tgt Ion: 43 Resp: 7511

Ion Ratio Lower Upper

43 100

58 0.0 28.2 42.4#

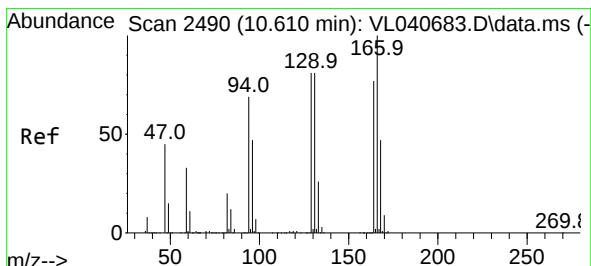
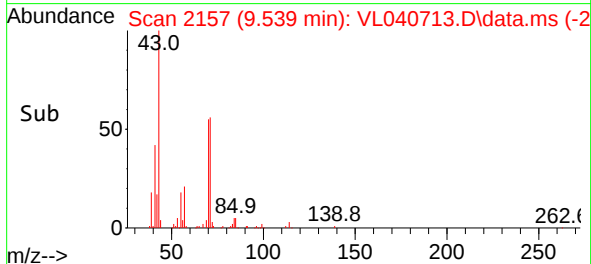
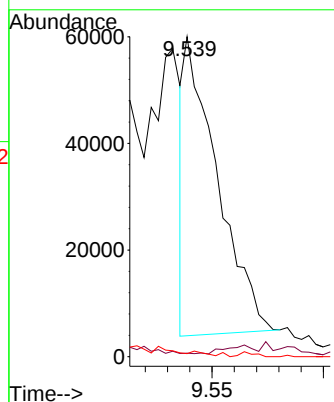
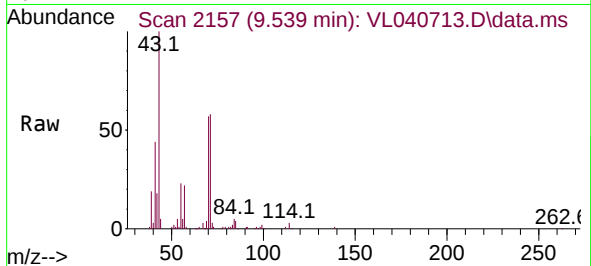




#51
2-Hexanone
Concen: 0.407 ppbv
RT: 9.539 min Scan# 2159
Delta R.T. -0.016 min
Lab File: VL040713.D
Acq: 19 Sep 2023 00:25

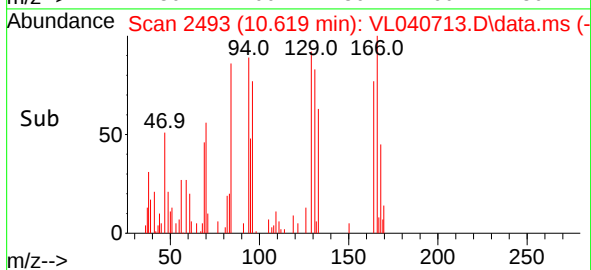
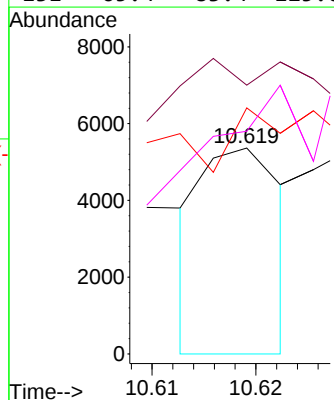
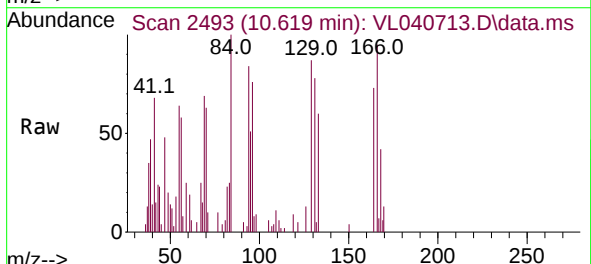
Instrument :
MSVOA_L
ClientSampleId :
IA1

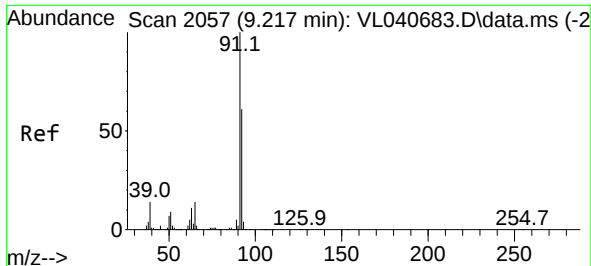
Tgt Ion: 43 Resp: 57444
Ion Ratio Lower Upper
43 100
58 10.2 37.6 56.4#
98 0.0 0.6 1.0#



#52
Tetrachloroethene
Concen: 0.040 ppbv
RT: 10.619 min Scan# 2493
Delta R.T. -0.006 min
Lab File: VL040713.D
Acq: 19 Sep 2023 00:25

Tgt Ion: 164 Resp: 2871
Ion Ratio Lower Upper
164 100
166 1.5 103.4 155.2#
129 42.8 83.5 125.3#
131 65.4 83.4 125.0#

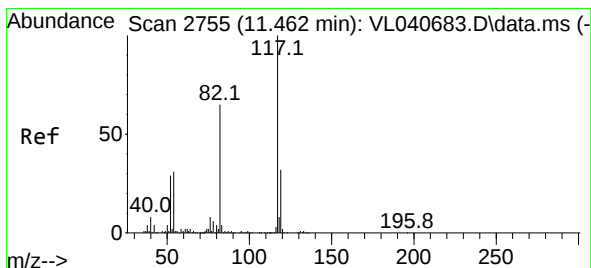
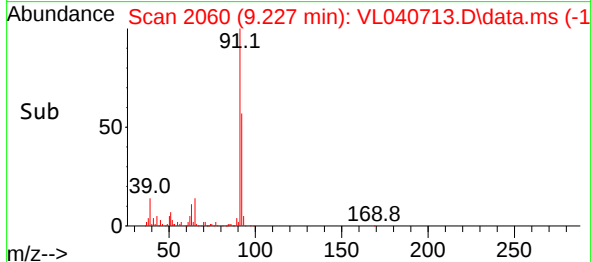
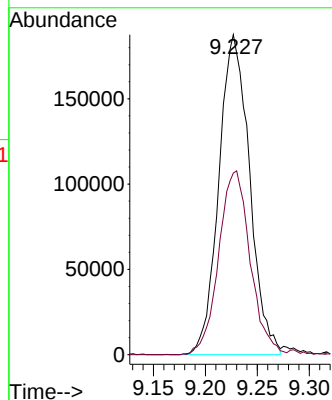
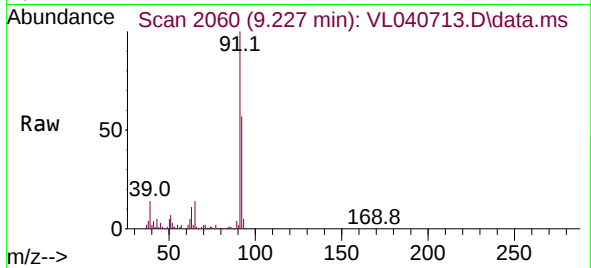




#53
Toluene
Concen: 1.640 ppbv
RT: 9.227 min Scan# 2057
Delta R.T. -0.003 min
Lab File: VL040713.D
Acq: 19 Sep 2023 00:25

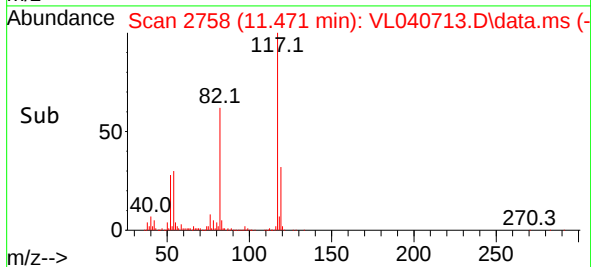
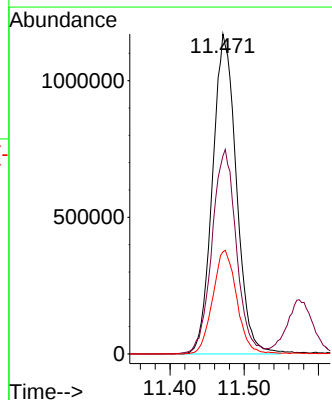
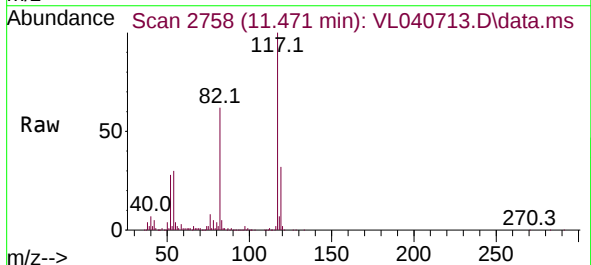
Instrument :
MSVOA_1
ClientSampleId :
IA1

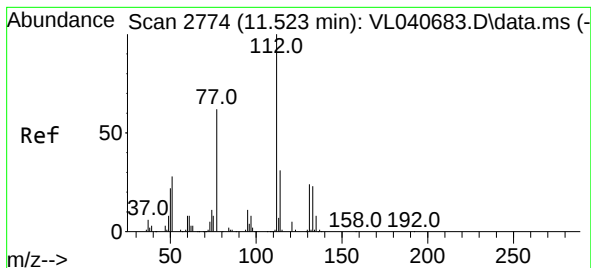
Tgt Ion: 91 Resp: 385380
Ion Ratio Lower Upper
91 100
92 59.6 48.5 72.7



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 2758
Delta R.T. -0.006 min
Lab File: VL040713.D
Acq: 19 Sep 2023 00:25

Tgt Ion: 117 Resp: 2617124
Ion Ratio Lower Upper
117 100
82 65.4 51.4 77.0
119 33.0 24.7 37.1





#57

Chlorobenzene

Concen: 0.466 ppbv

RT: 11.542 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL040713.D

Acq: 19 Sep 2023 00:25

Instrument :

MSVOA_L

ClientSampleId :

IA1

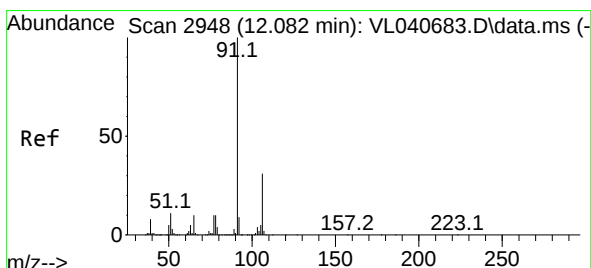
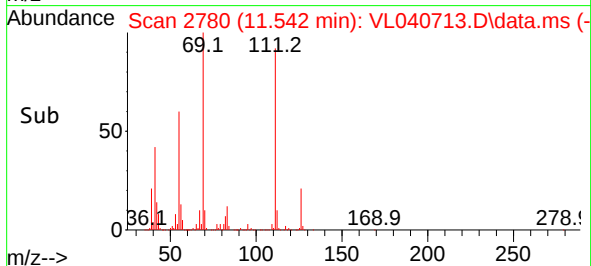
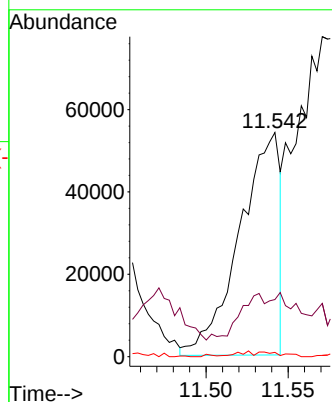
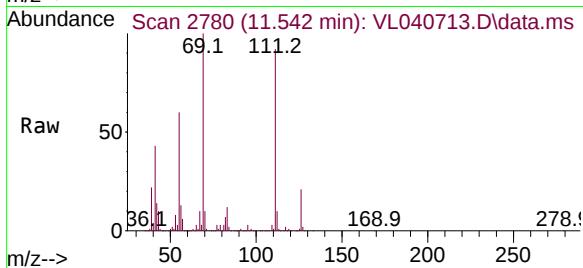
Tgt Ion:112 Resp: 92315

Ion Ratio Lower Upper

112 100

77 3.8 50.8 76.2#

114 1.7 28.2 34.4#



#58

Ethyl Benzene

Concen: 41.522 ppbv

RT: 12.098 min Scan# 2953

Delta R.T. -0.003 min

Lab File: VL040713.D

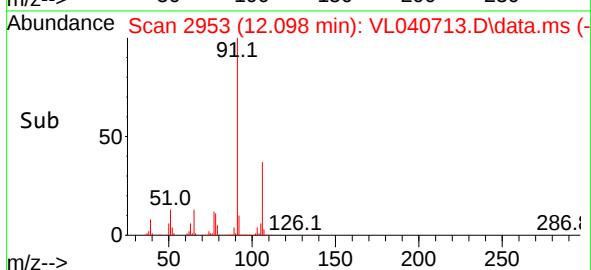
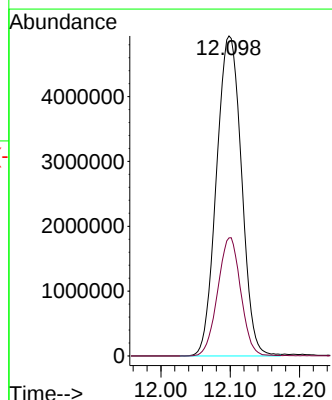
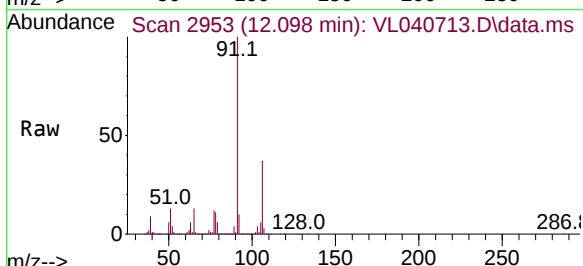
Acq: 19 Sep 2023 00:25

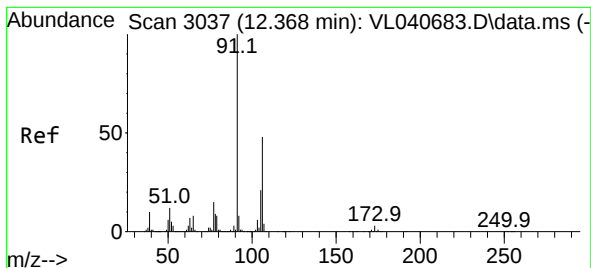
Tgt Ion: 91 Resp:12389275

Ion Ratio Lower Upper

91 100

106 36.9 24.7 37.1

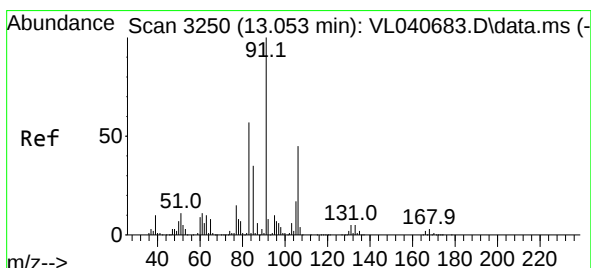
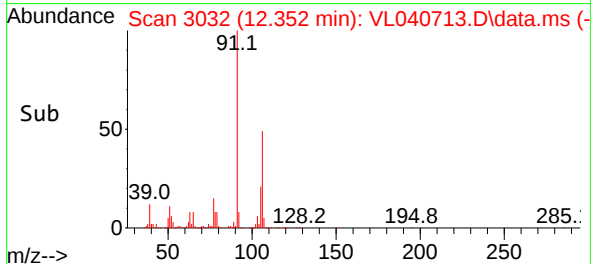
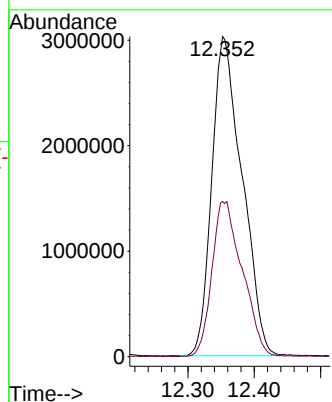
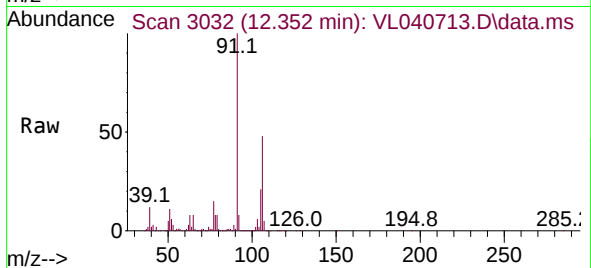




#59
m/p-Xylene
Concen: 34.226 ppbv
RT: 12.352 min Scan# 3032
Delta R.T. -0.029 min
Lab File: VL040713.D
Acq: 19 Sep 2023 00:25

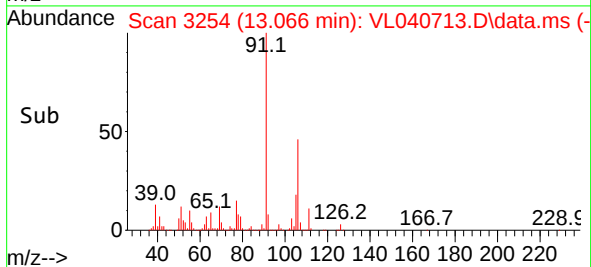
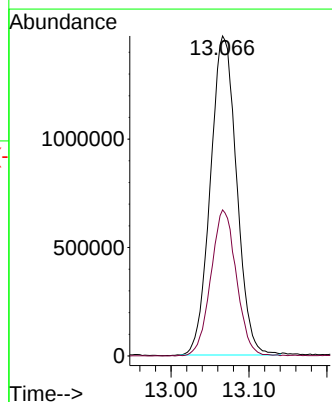
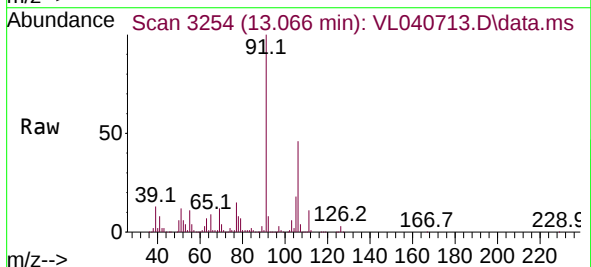
Instrument :
MSVOA_L
ClientSampleId :
IA1

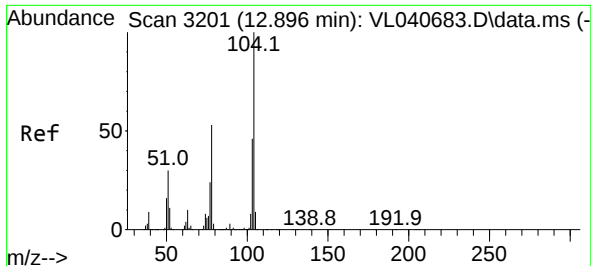
Tgt Ion: 91 Resp: 9589480
Ion Ratio Lower Upper
91 100
106 48.9 34.8 52.2



#60
o-Xylene
Concen: 12.872 ppbv
RT: 13.066 min Scan# 3254
Delta R.T. -0.003 min
Lab File: VL040713.D
Acq: 19 Sep 2023 00:25

Tgt Ion: 91 Resp: 3439337
Ion Ratio Lower Upper
91 100
106 44.7 22.3 66.9





#61

Styrene

Concen: 0.078 ppbv

RT: 12.908 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL040713.D

Acq: 19 Sep 2023 00:25

Instrument :

MSVOA_L

ClientSampleId :

IA1

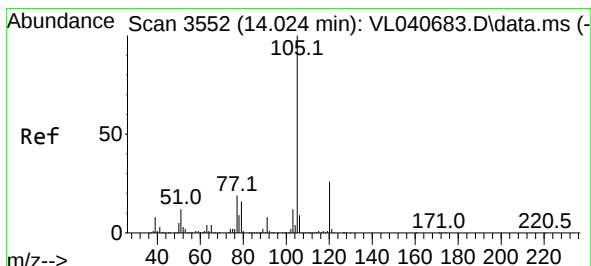
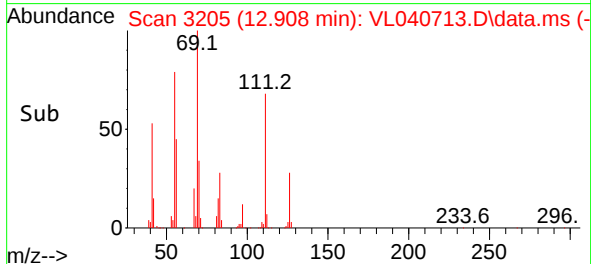
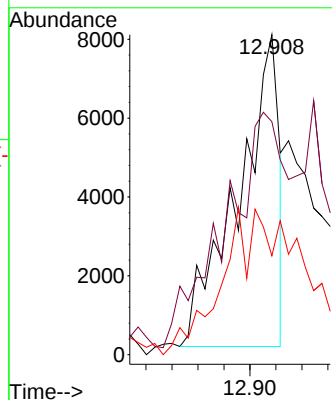
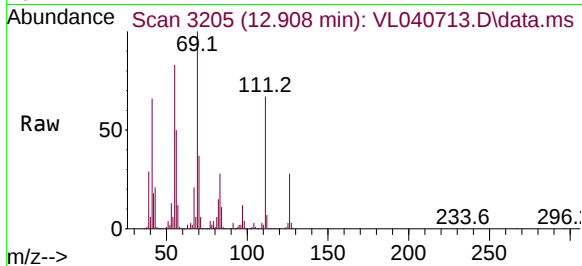
Tgt Ion:104 Resp: 8697

Ion Ratio Lower Upper

104 100

78 0.0 43.4 65.0#

103 105.7 37.2 55.8#



#62

Isopropylbenzene

Concen: 0.551 ppbv

RT: 14.037 min Scan# 3556

Delta R.T. -0.000 min

Lab File: VL040713.D

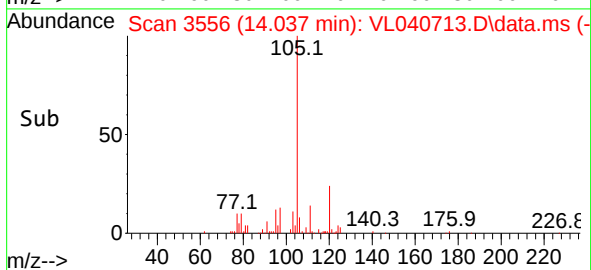
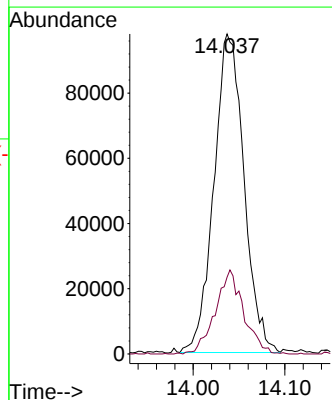
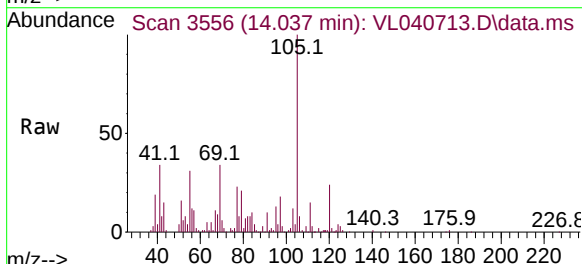
Acq: 19 Sep 2023 00:25

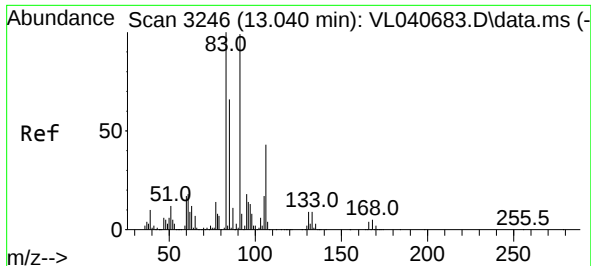
Tgt Ion:105 Resp: 222488

Ion Ratio Lower Upper

105 100

120 24.9 20.2 30.4





#63

1,1,2,2-Tetrachloroethane

Concen: 0.552 ppbv

RT: 13.043 min Scan# 31

Delta R.T. -0.013 min

Lab File: VL040713.D

Acq: 19 Sep 2023 00:25

Instrument :

MSVOA_L

ClientSampleId :

IA1

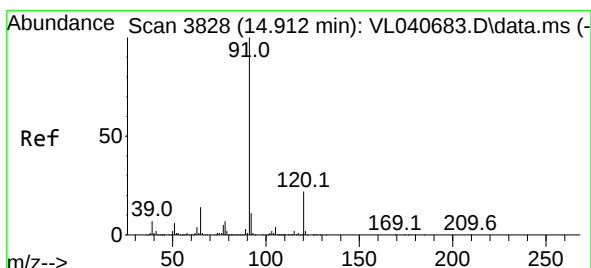
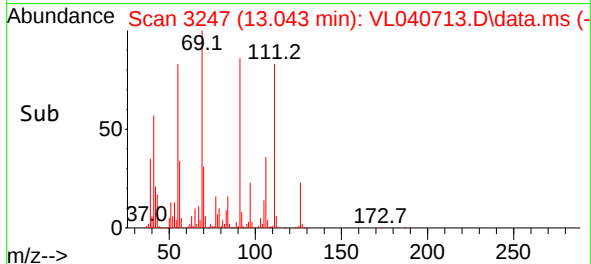
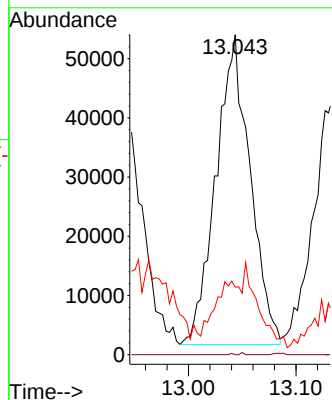
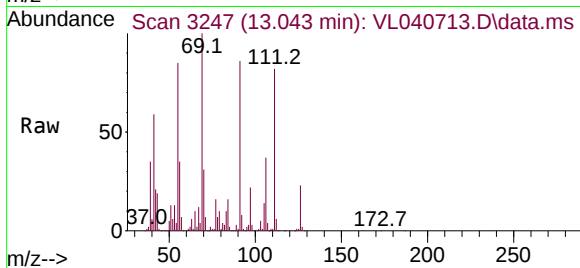
Tgt Ion: 83 Resp: 115500

Ion Ratio Lower Upper

83 100

131 0.1 4.7 14.1#

85 0.0 33.1 99.3#



#64

n-propylbenzene

Concen: 1.060 ppbv

RT: 14.921 min Scan# 3831

Delta R.T. -0.003 min

Lab File: VL040713.D

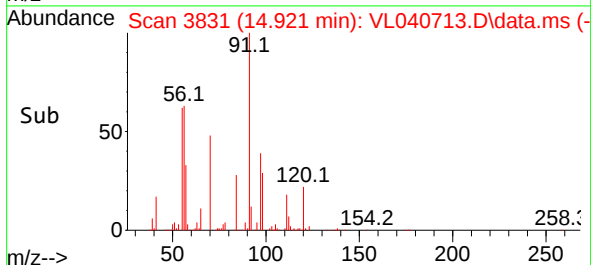
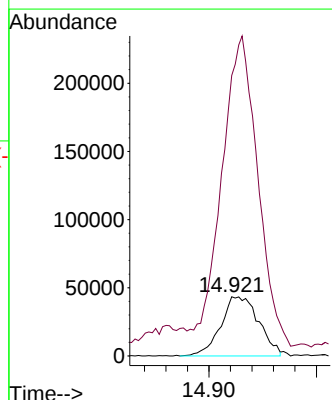
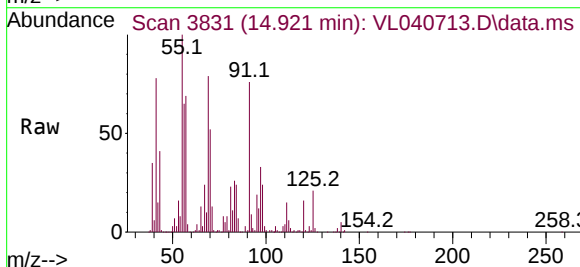
Acq: 19 Sep 2023 00:25

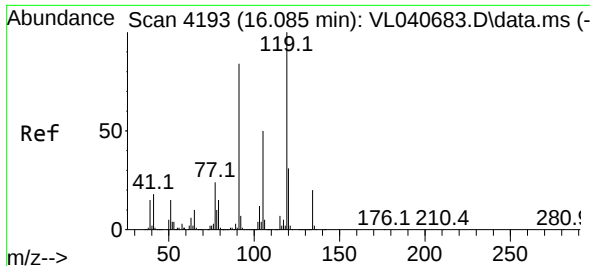
Tgt Ion: 120 Resp: 106936

Ion Ratio Lower Upper

120 100

91 503.2 386.9 580.3

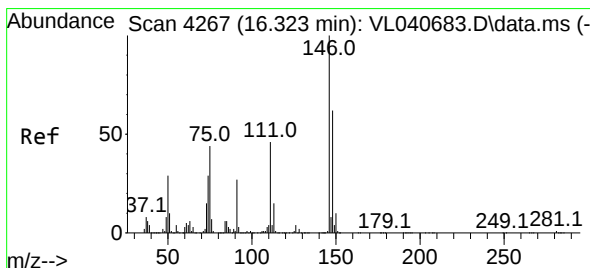
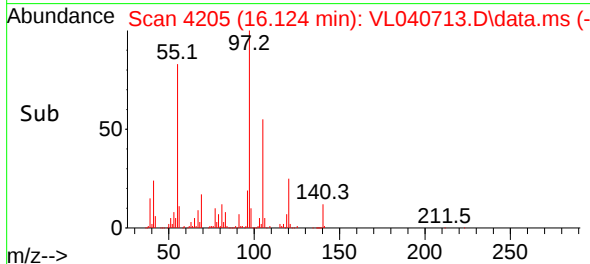
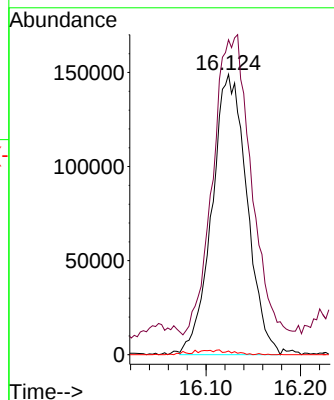
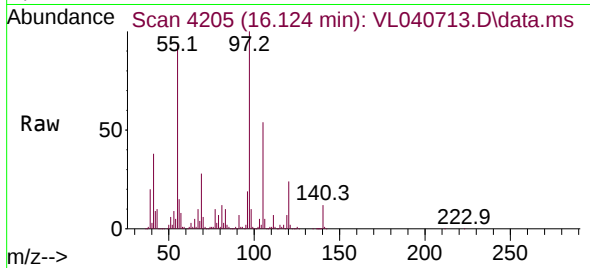




#65
tert-Butylbenzene
Concen: 1.056 ppbv
RT: 16.124 min Scan# 4193
Delta R.T. 0.026 min
Lab File: VL040713.D
Acq: 19 Sep 2023 00:25

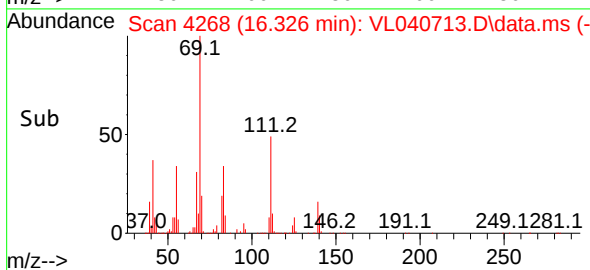
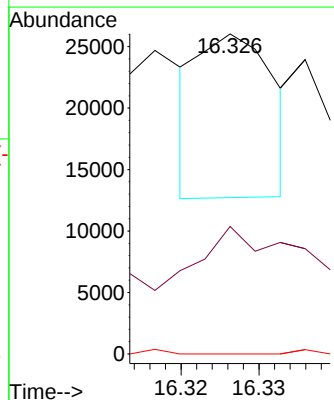
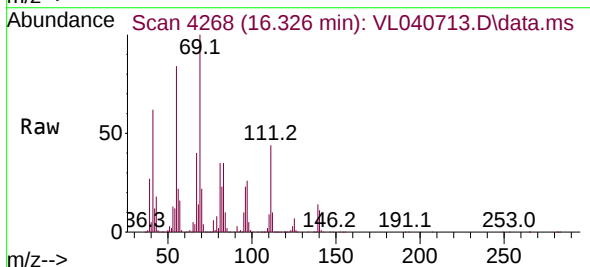
Instrument :
MSVOA_L
ClientSampleId :
IA1

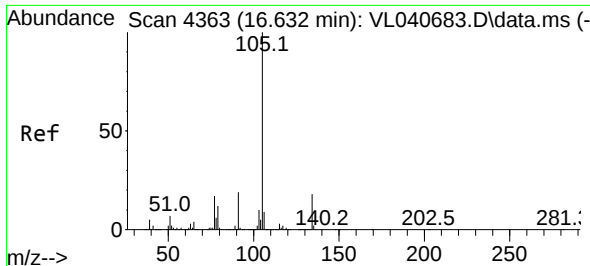
Tgt Ion:119 Resp: 382470
Ion Ratio Lower Upper
119 100
91 120.0 69.8 104.8#
134 1.8 15.4 23.2#



#66
Benzyl Chloride
Concen: 0.211 ppbv
RT: 16.326 min Scan# 4268
Delta R.T. -0.010 min
Lab File: VL040713.D
Acq: 19 Sep 2023 00:25

Tgt Ion: 91 Resp: 8915
Ion Ratio Lower Upper
91 100
126 244.2 13.6 20.4#
128 0.0 4.4 6.6#

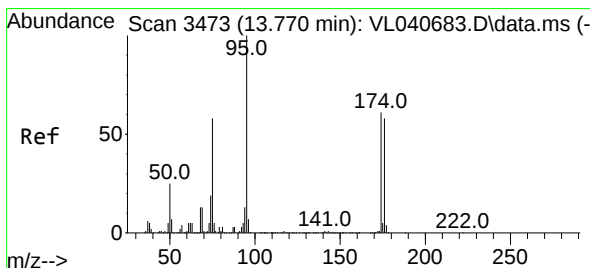
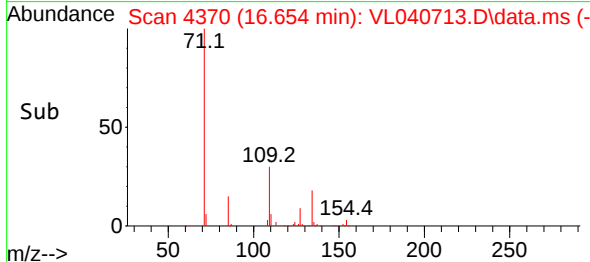
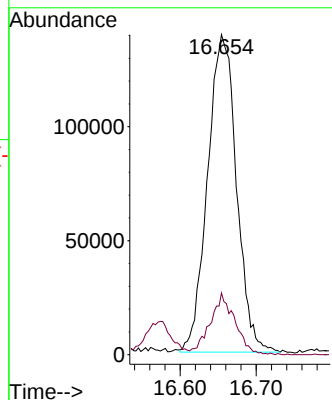
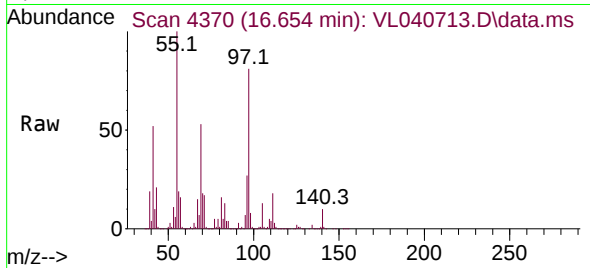




#67
 sec-Butylbenzene
 Concen: 0.710 ppbv
 RT: 16.654 min Scan# 41
 Delta R.T. 0.010 min
 Lab File: VL040713.D
 Acq: 19 Sep 2023 00:25

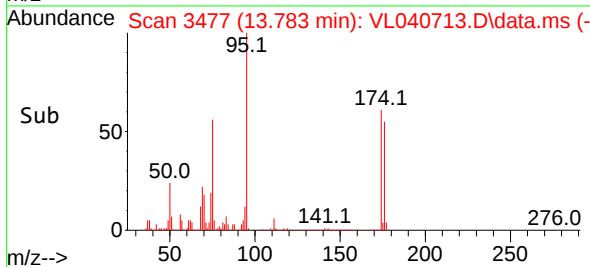
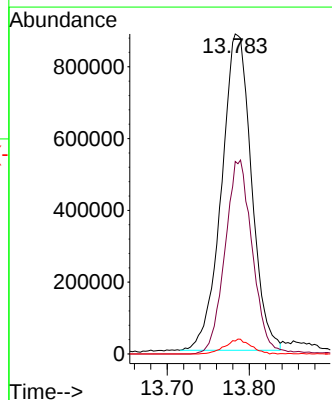
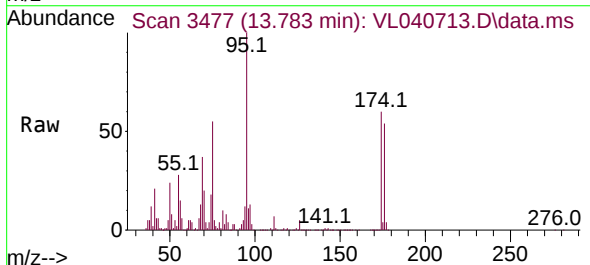
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

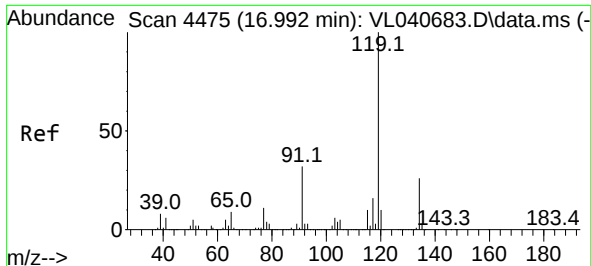
Tgt Ion:105 Resp: 368281
 Ion Ratio Lower Upper
 105 100
 134 16.7 14.1 21.1



#68
 1-Bromo-4-Fluorobenzene
 Concen: 11.055 ppbv
 RT: 13.783 min Scan# 3477
 Delta R.T. -0.003 min
 Lab File: VL040713.D
 Acq: 19 Sep 2023 00:25

Tgt Ion: 95 Resp: 2235357
 Ion Ratio Lower Upper
 95 100
 174 56.3 48.9 73.3
 175 4.1 3.5 5.3

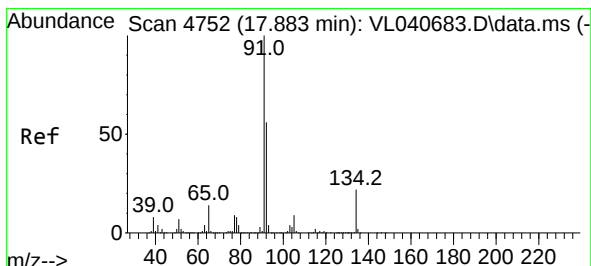
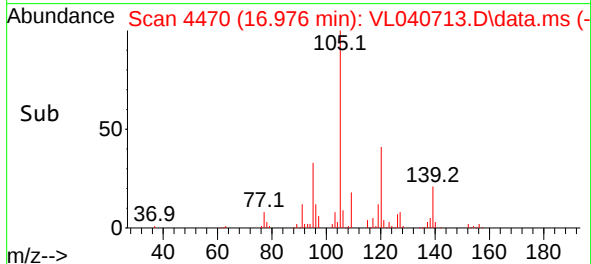
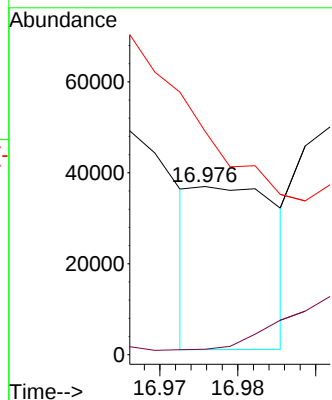
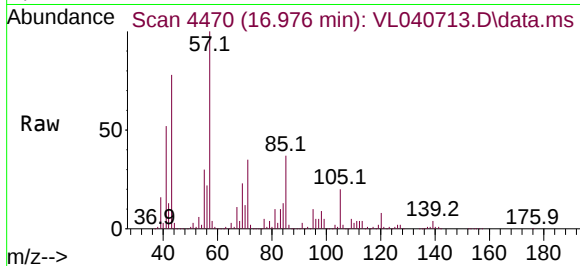




#69
p-Isopropyltoluene
Concen: 0.065 ppbv
RT: 16.976 min Scan# 4475
Delta R.T. -0.026 min
Lab File: VL040713.D
Acq: 19 Sep 2023 00:25

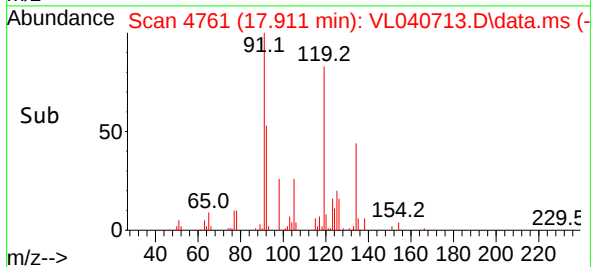
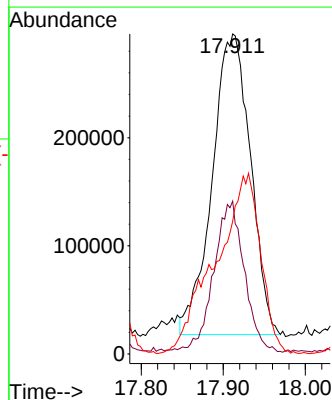
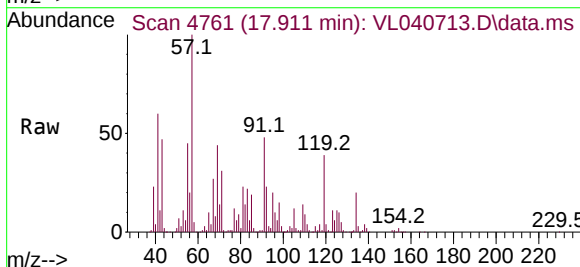
Instrument :
MSVOA_L
ClientSampleId :
IA1

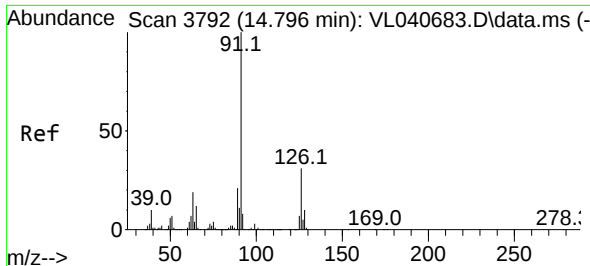
Tgt Ion:119 Resp: 26498
Ion Ratio Lower Upper
119 100
134 0.0 20.2 30.2#
91 0.0 25.0 37.6#



#70
n-Butylbenzene
Concen: 2.008 ppbv
RT: 17.911 min Scan# 4761
Delta R.T. 0.016 min
Lab File: VL040713.D
Acq: 19 Sep 2023 00:25

Tgt Ion: 91 Resp: 900342
Ion Ratio Lower Upper
91 100
92 40.8 42.7 64.1#
134 70.4 17.0 25.4#

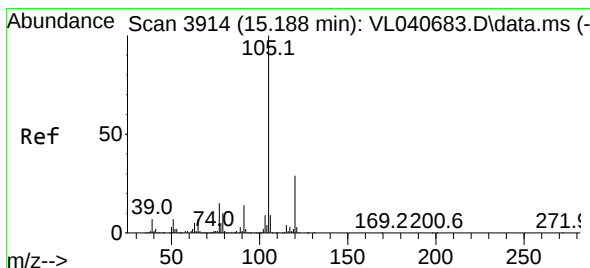
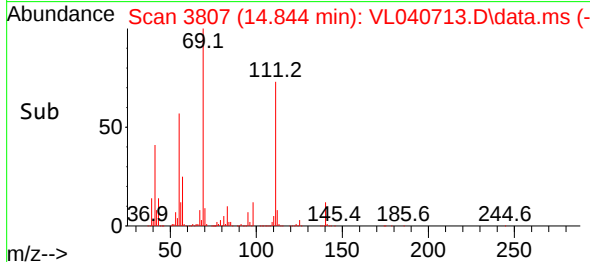
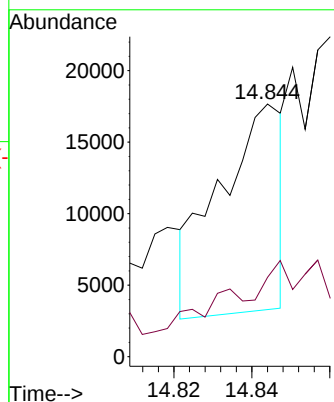
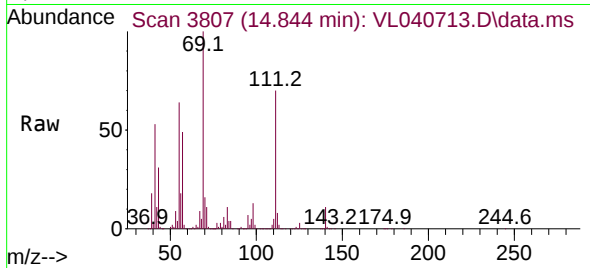




#71
2-Chlorotoluene
Concen: 0.055 ppbv
RT: 14.844 min Scan# 31
Delta R.T. 0.035 min
Lab File: VL040713.D
Acq: 19 Sep 2023 00:25

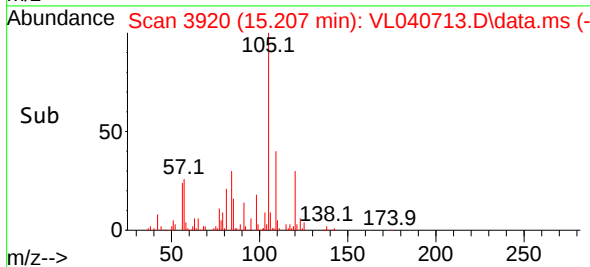
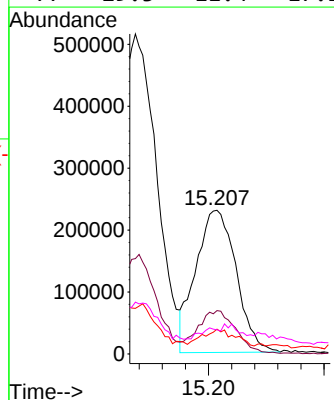
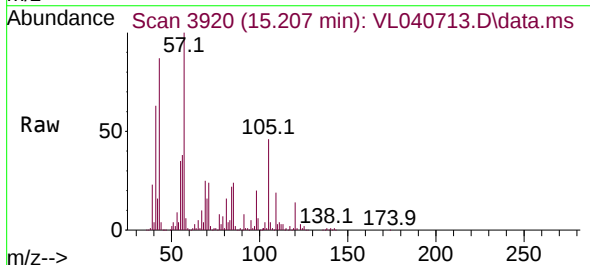
Instrument :
MSVOA_L
ClientSampleId :
IA1

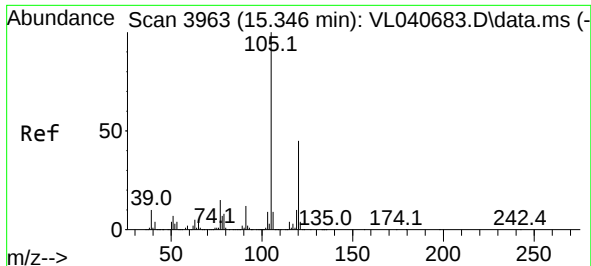
Tgt Ion: 91 Resp: 16312
Ion Ratio Lower Upper
91 100
126 0.0 12.0 47.8#



#72
4-Ethyltoluene
Concen: 1.862 ppbv
RT: 15.207 min Scan# 3920
Delta R.T. 0.006 min
Lab File: VL040713.D
Acq: 19 Sep 2023 00:25

Tgt Ion: 105 Resp: 557962
Ion Ratio Lower Upper
105 100
120 29.9 23.9 35.9
91 20.7 11.0 16.4#
77 29.3 11.4 17.2#

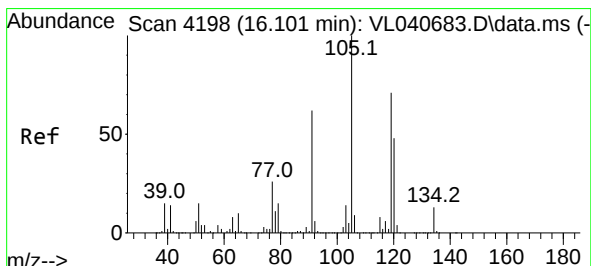
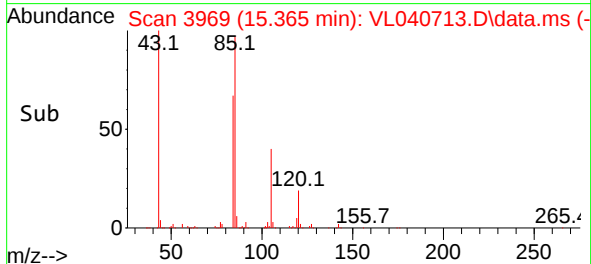
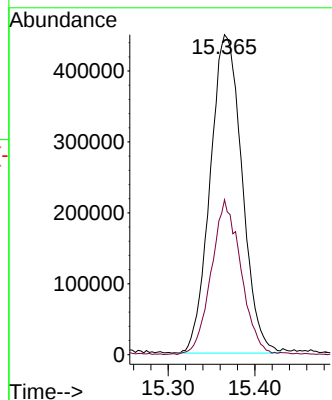
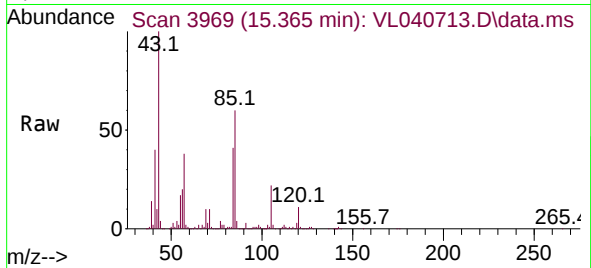




#73
 1,3,5-Trimethylbenzene
 Concen: 4.243 ppbv
 RT: 15.365 min Scan# 3969
 Delta R.T. 0.003 min
 Lab File: VL040713.D
 Acq: 19 Sep 2023 00:25

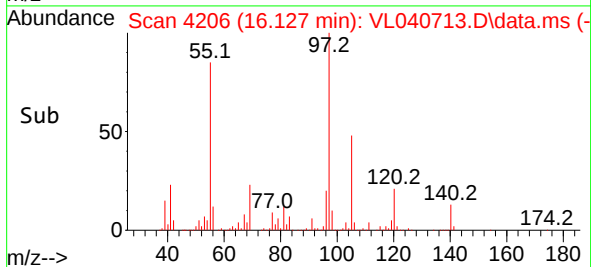
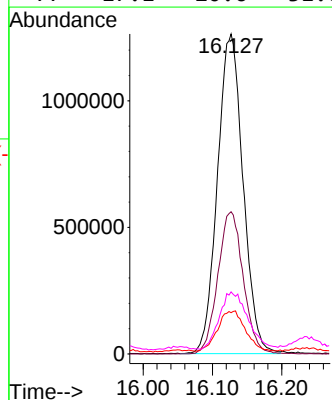
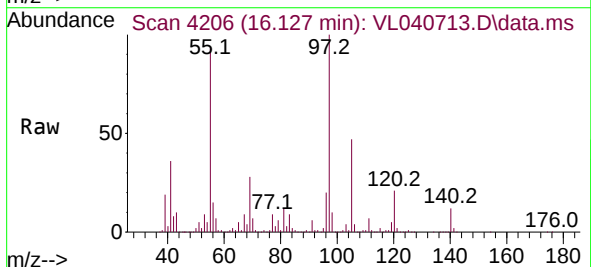
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

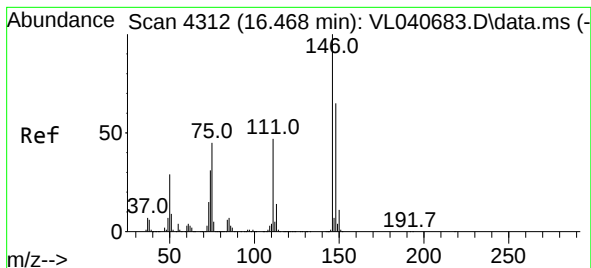
Tgt Ion:105 Resp: 1144846
 Ion Ratio Lower Upper
 105 100
 120 48.3 36.1 54.1



#74
 1,2,4-Trimethylbenzene
 Concen: 9.846 ppbv
 RT: 16.127 min Scan# 4206
 Delta R.T. 0.010 min
 Lab File: VL040713.D
 Acq: 19 Sep 2023 00:25

Tgt Ion:105 Resp: 3238420
 Ion Ratio Lower Upper
 105 100
 120 44.4 38.6 57.8
 91 11.7 50.0 75.0#
 77 17.1 20.6 31.0#





#76

1,4-Dichlorobenzene

Concen: 0.620 ppbv

RT: 16.487 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL040713.D

Acq: 19 Sep 2023 00:25

Instrument :

MSVOA_L

ClientSampleId :

IA1

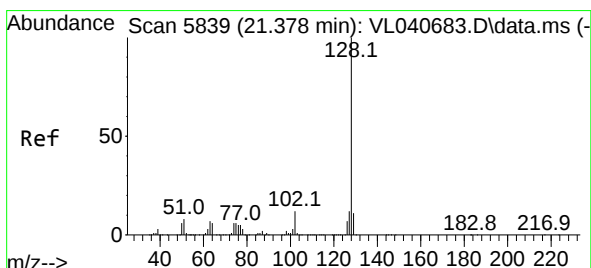
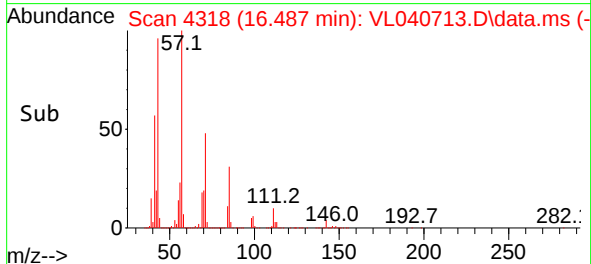
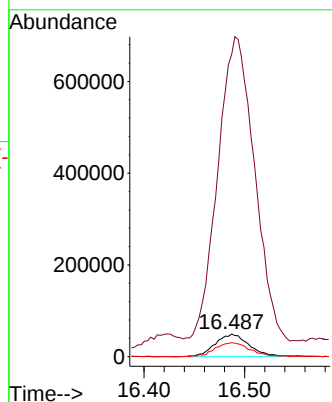
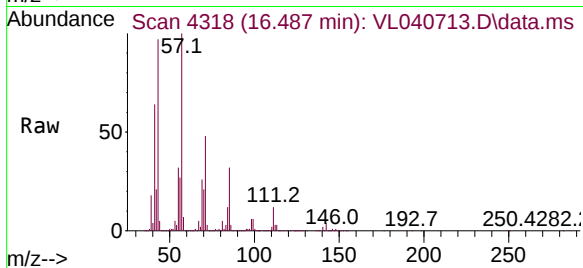
Tgt Ion:146 Resp: 114378

Ion Ratio Lower Upper

146 100

111 1477.8 23.8 71.2#

148 66.4 32.6 97.7



#79

Naphthalene

Concen: 0.961 ppbv

RT: 21.403 min Scan# 5847

Delta R.T. 0.010 min

Lab File: VL040713.D

Acq: 19 Sep 2023 00:25

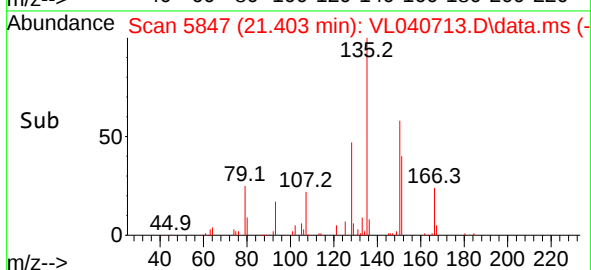
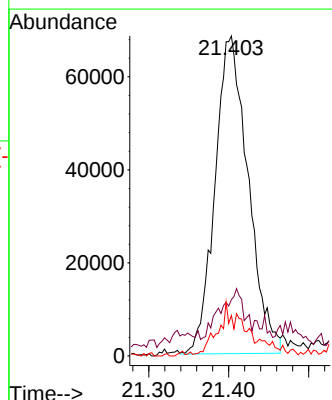
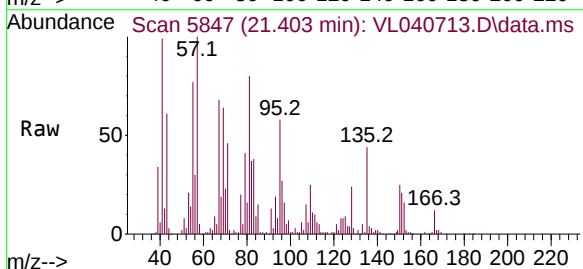
Tgt Ion:128 Resp: 196619

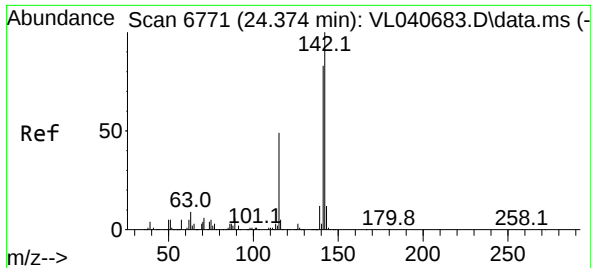
Ion Ratio Lower Upper

128 100

127 11.5 9.8 14.6

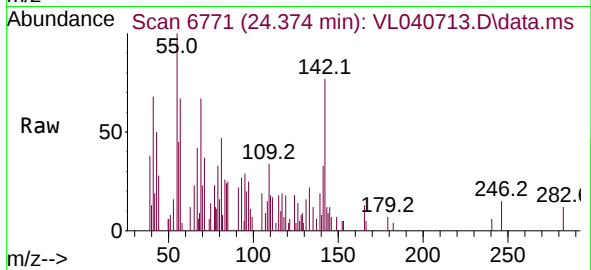
129 11.8 8.4 12.6





#80
 Naphthalene, 2-methyl-
 Concen: 0.209 ppbv
 RT: 24.374 min Scan# 61
 Delta R.T. -0.006 min
 Lab File: VL040713.D
 Acq: 19 Sep 2023 00:25

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion:	142	Resp:	10489
Ion	Ratio	Lower	Upper
142	100		
141	92.0	67.0	100.6
115	39.8	37.4	56.2

