

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091823\
 Data File : VL040705.D
 Acq On : 18 Sep 2023 19:03
 Operator : SY/MD
 Sample : 04402-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ST-5

Quant Time: Sep 19 05:20:54 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)

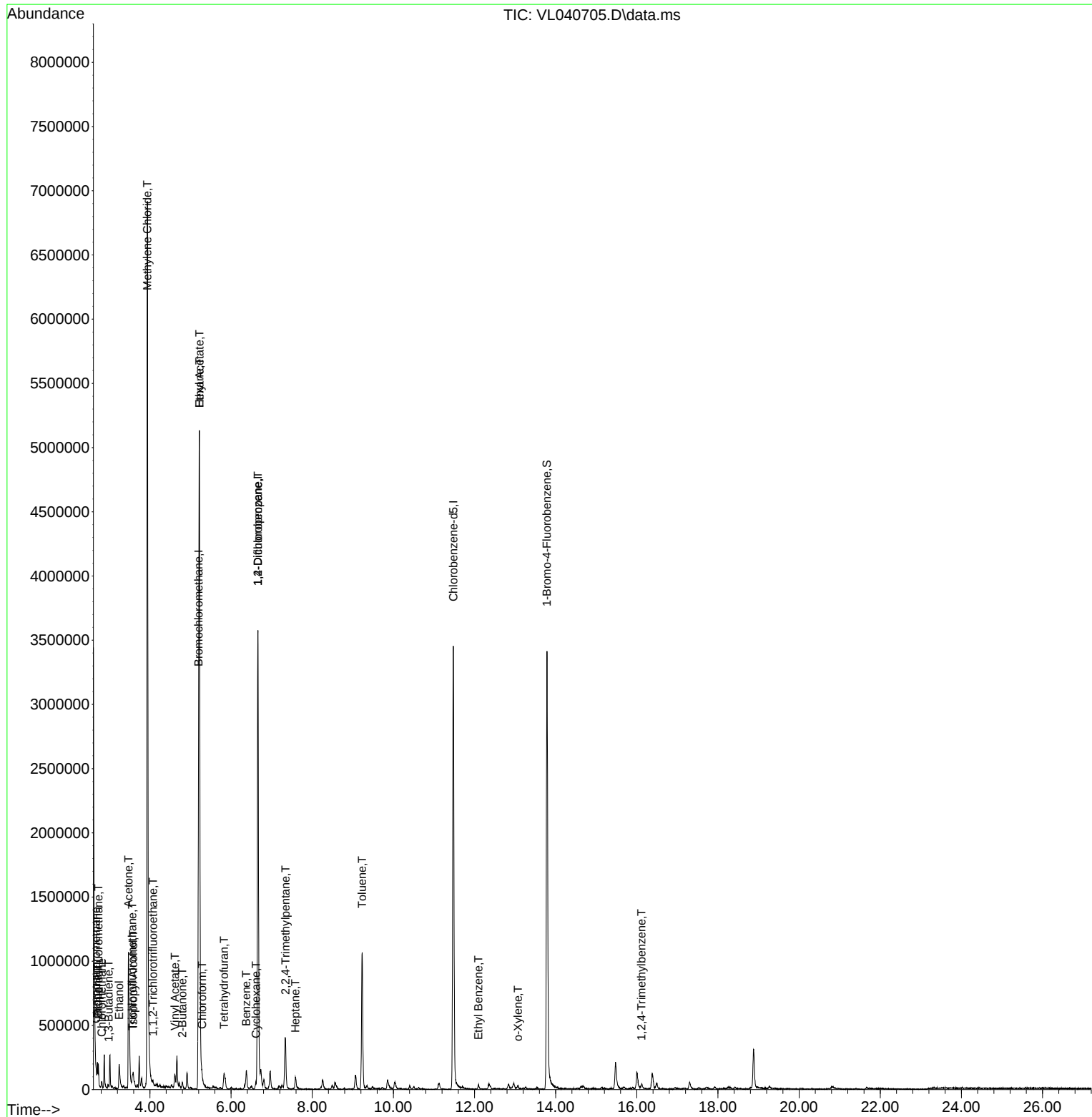
Internal Standards						
1) Bromochloromethane	5.198	49	982723	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2570390	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.478	117	2118160	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.786	95	1626680	9.940	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.729	85	105871	0.489	ppbv	98
3) Chlorodifluoromethane	2.674	51	86181	0.538	ppbv #	83
4) Chloromethane	2.813	50	35975	0.587	ppbv #	86
9) Propene	2.706	41	39626	0.859	ppbv	85
10) Heptane	7.584	43	15933	0.153	ppbv #	26
11) Trichlorofluoromethane	3.565	101	44387	0.233	ppbv	85
12) 1,1,2-Trichlorotrifluo...	4.076	101	4447	0.033	ppbv #	1
13) Ethanol	3.243	45	209507	15.347	ppbv	95
15) Acetone	3.472	43	1148723	8.862	ppbv	97
16) 1,3-Butadiene	2.983	39	3541	0.063	ppbv #	44
19) Isopropyl Alcohol	3.587	45	114030	1.460	ppbv #	1
20) Methylene Chloride	3.938	84	2478783	35.529	ppbv	98
23) Vinyl Acetate	4.616	43	58904	0.439	ppbv #	24
25) Ethyl Acetate	5.221	43	1210731	5.791	ppbv #	76
26) Hexane	5.221	57	1801437	18.223	ppbv #	39
29) Chloroform	5.285	83	7712	0.045	ppbv	98
30) Cyclohexane	6.613	84	2871	0.039	ppbv #	1
34) 2-Butanone	4.800	43	44510	0.344	ppbv #	85
36) Benzene	6.375	78	58191	0.306	ppbv	97
39) 1,2-Dichloropropane	6.661	63	652478	8.906	ppbv #	23
41) Tetrahydrofuran	5.829	42	8226	0.124	ppbv #	36
44) 2,2,4-Trimethylpentane	7.340	57	320966	1.059	ppbv #	86
53) Toluene	9.230	91	723227	3.599	ppbv	99
58) Ethyl Benzene	12.098	91	23298	0.096	ppbv #	87
60) o-Xylene	13.069	91	10308	0.048	ppbv #	51
74) 1,2,4-Trimethylbenzene	16.114	105	9674	0.036	ppbv #	46

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

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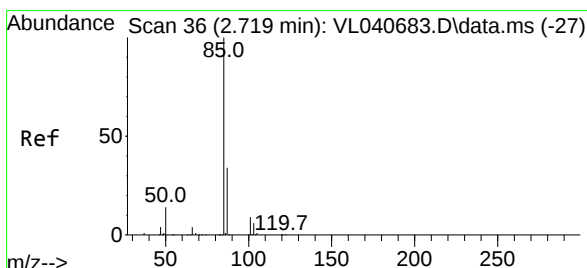
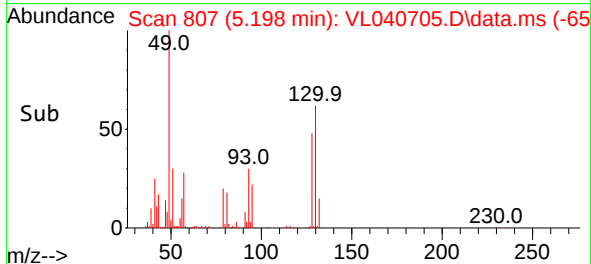
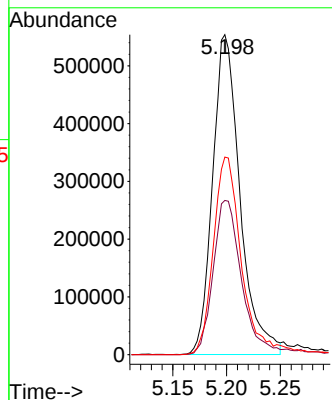
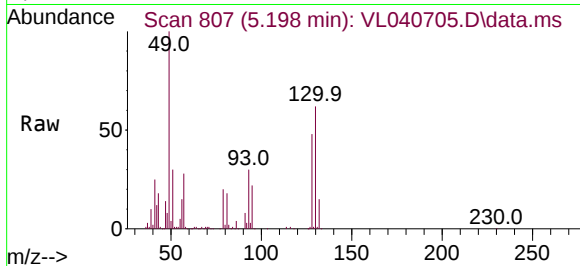




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.198 min Scan# 80
Delta R.T. 0.000 min
Lab File: VL040705.D
Acq: 18 Sep 2023 19:03

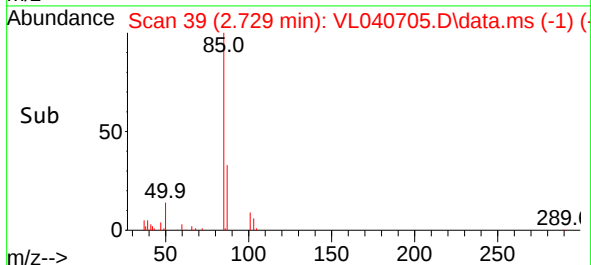
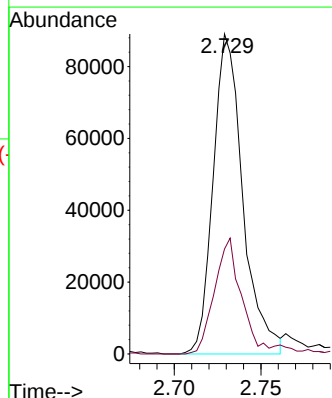
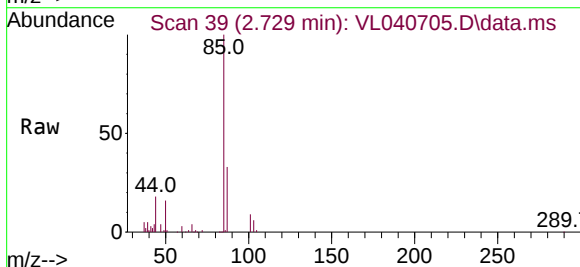
Instrument :
MSVOA_L
ClientSampleId :
ST-5

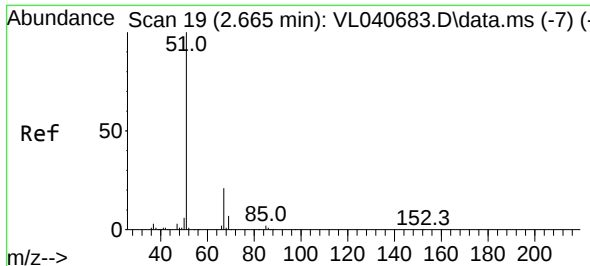
Tgt Ion: 49 Resp: 982723
Ion Ratio Lower Upper
49 100
128 51.9 25.4 76.0
130 65.1 32.3 96.8



#2
Dichlorodifluoromethane
Concen: 0.489 ppbv
RT: 2.729 min Scan# 39
Delta R.T. -0.003 min
Lab File: VL040705.D
Acq: 18 Sep 2023 19:03

Tgt Ion: 85 Resp: 105871
Ion Ratio Lower Upper
85 100
87 32.8 27.2 40.8

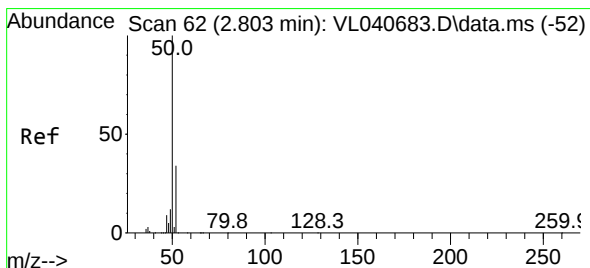
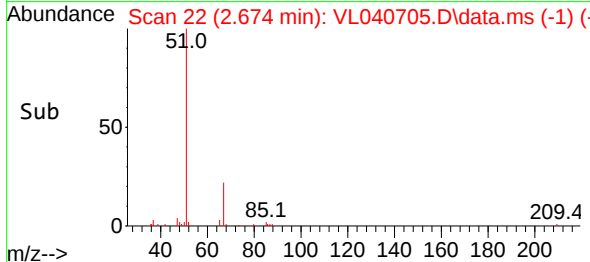
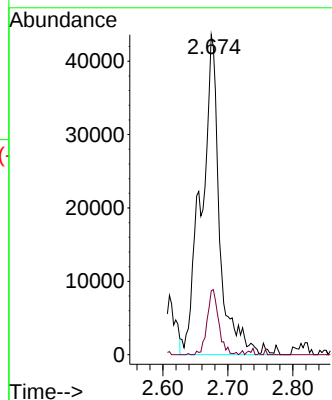
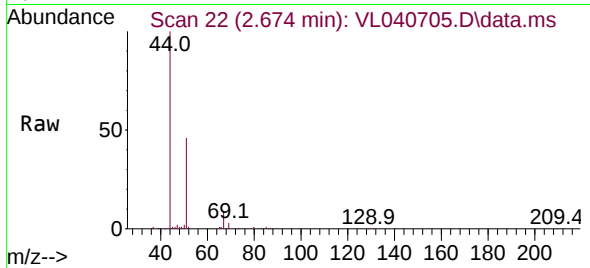




#3
Chlorodifluoromethane
Concen: 0.538 ppbv
RT: 2.674 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL040705.D
Acq: 18 Sep 2023 19:03

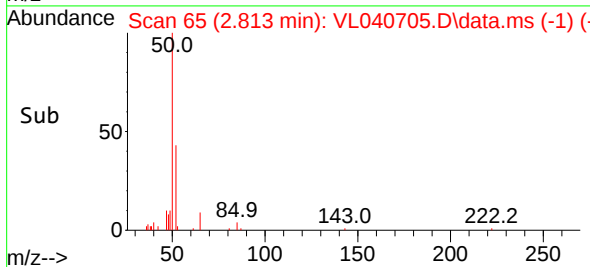
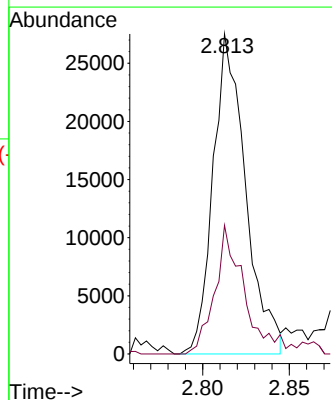
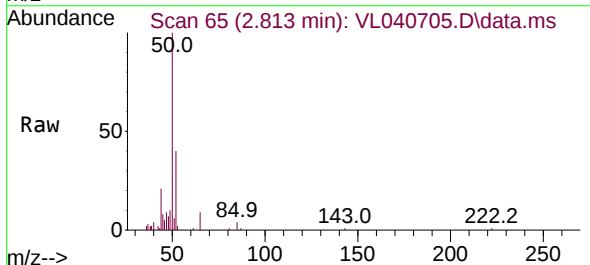
Instrument :
MSVOA_L
ClientSampleId :
ST-5

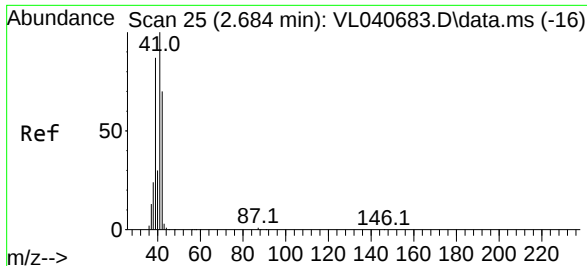
Tgt Ion: 51 Resp: 86181
Ion Ratio Lower Upper
51 100
67 12.8 16.7 25.1#



#4
Chloromethane
Concen: 0.587 ppbv
RT: 2.813 min Scan# 65
Delta R.T. -0.003 min
Lab File: VL040705.D
Acq: 18 Sep 2023 19:03

Tgt Ion: 50 Resp: 35975
Ion Ratio Lower Upper
50 100
52 41.9 27.1 40.7#





#9

Propene

Concen: 0.859 ppbv

RT: 2.706 min Scan# 31

Delta R.T. 0.010 min

Lab File: VL040705.D

Acq: 18 Sep 2023 19:03

Instrument :

MSVOA_L

ClientSampleId :

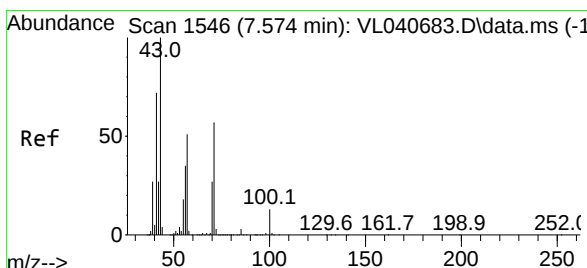
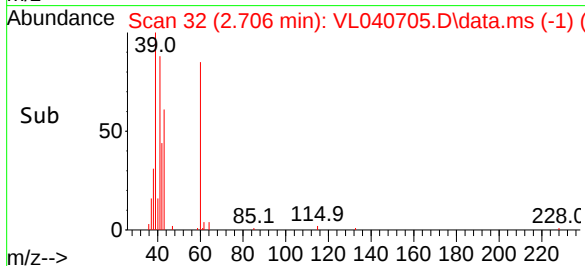
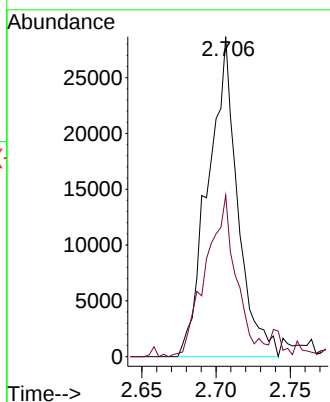
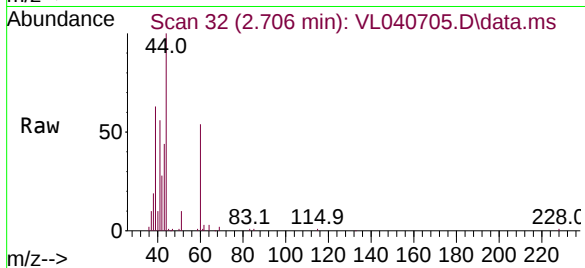
ST-5

Tgt Ion: 41 Resp: 39626

Ion Ratio Lower Upper

41 100

42 58.4 56.7 85.1



#10

Heptane

Concen: 0.153 ppbv

RT: 7.584 min Scan# 1549

Delta R.T. -0.003 min

Lab File: VL040705.D

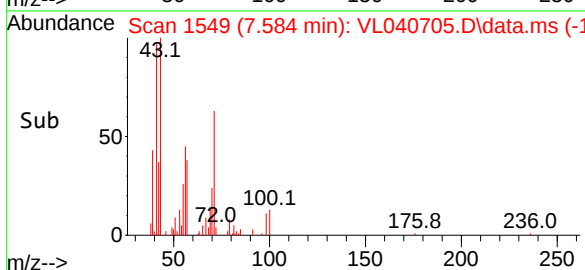
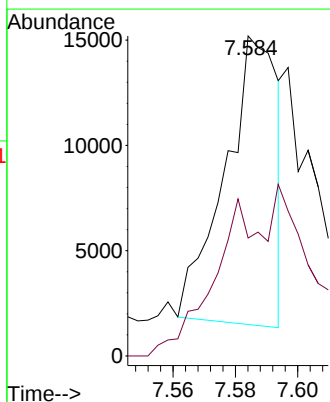
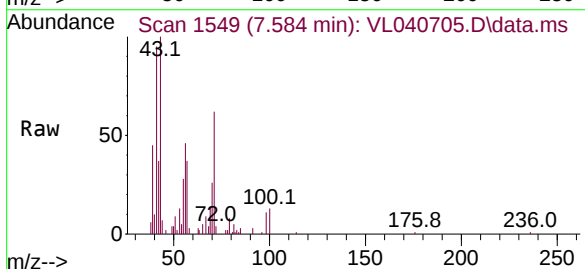
Acq: 18 Sep 2023 19:03

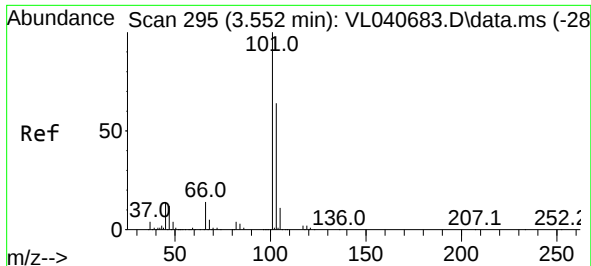
Tgt Ion: 43 Resp: 15933

Ion Ratio Lower Upper

43 100

57 0.0 41.8 62.6#

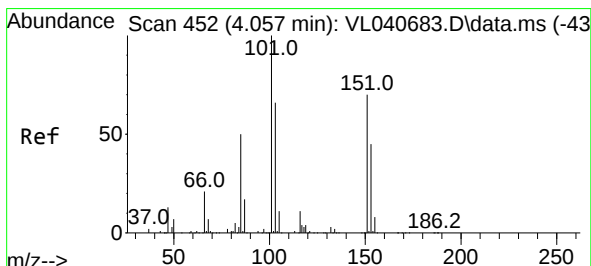
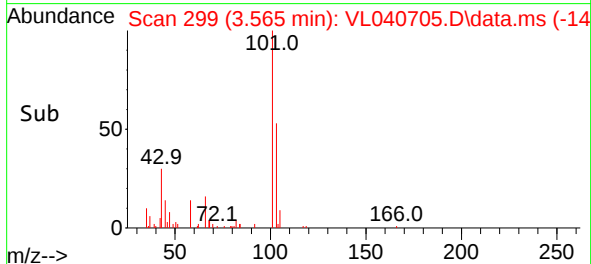
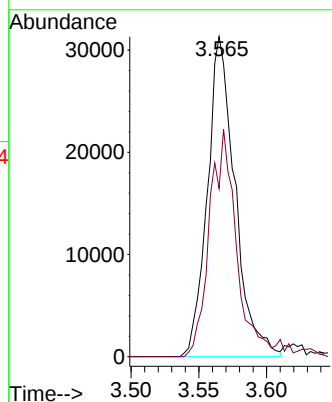
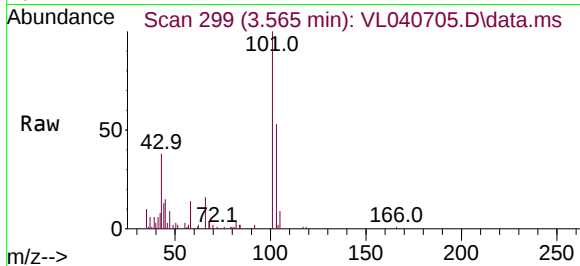




#11
 Trichlorofluoromethane
 Concen: 0.233 ppbv
 RT: 3.565 min Scan# 295
 Delta R.T. -0.003 min
 Lab File: VL040705.D
 Acq: 18 Sep 2023 19:03

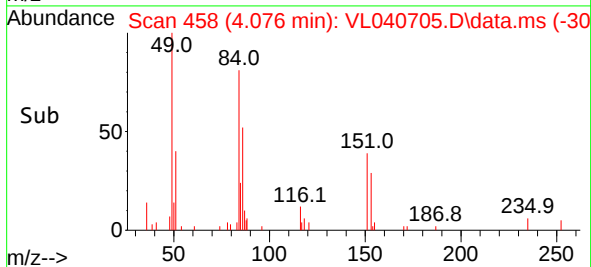
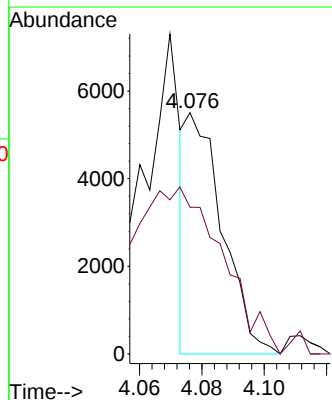
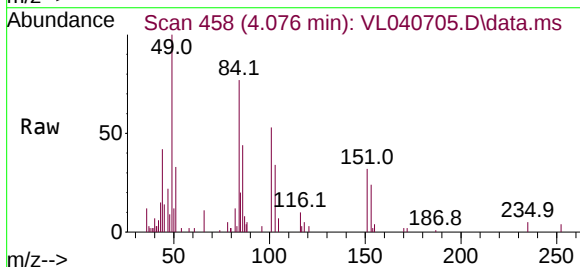
Instrument :
 MSVOA_L
 ClientSampleId :
 ST-5

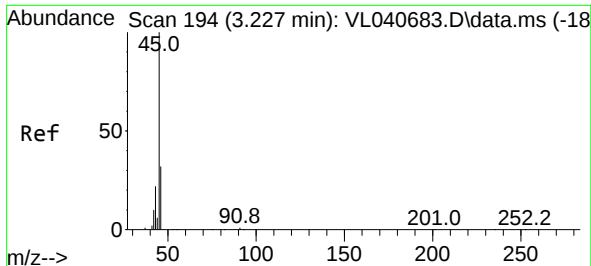
Tgt Ion:101 Resp: 44387
 Ion Ratio Lower Upper
 101 100
 103 52.6 51.3 76.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.033 ppbv
 RT: 4.076 min Scan# 458
 Delta R.T. 0.003 min
 Lab File: VL040705.D
 Acq: 18 Sep 2023 19:03

Tgt Ion:101 Resp: 4447
 Ion Ratio Lower Upper
 101 100
 151 175.4 56.8 85.2#

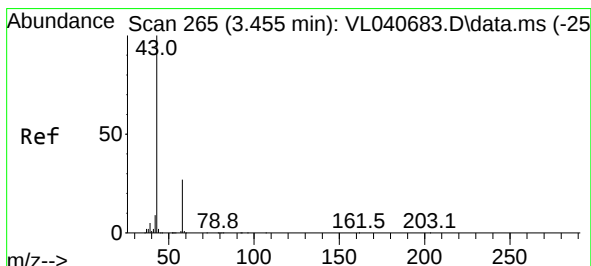
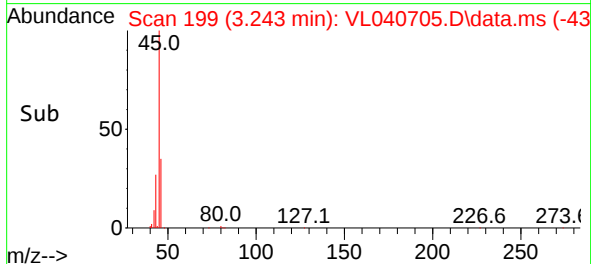
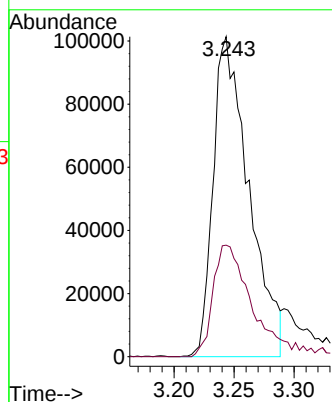
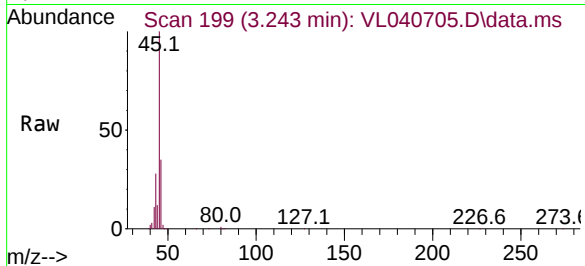




#13
Ethanol
Concen: 15.347 ppbv
RT: 3.243 min Scan# 194
Delta R.T. 0.000 min
Lab File: VL040705.D
Acq: 18 Sep 2023 19:03

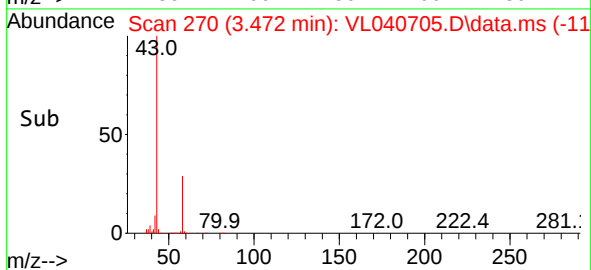
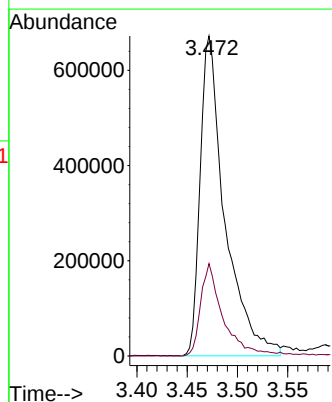
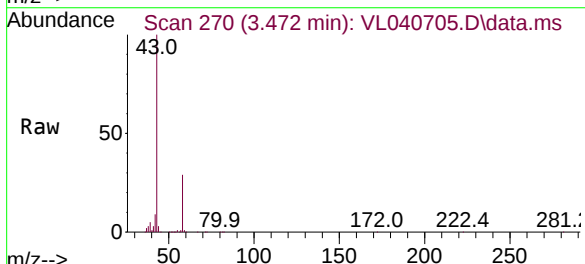
Instrument :
MSVOA_L
ClientSampleId :
ST-5

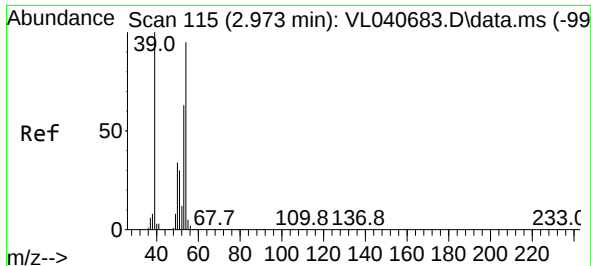
Tgt Ion: 45 Resp: 209507
Ion Ratio Lower Upper
45 100
46 41.2 15.2 61.0



#15
Acetone
Concen: 8.862 ppbv
RT: 3.472 min Scan# 270
Delta R.T. 0.000 min
Lab File: VL040705.D
Acq: 18 Sep 2023 19:03

Tgt Ion: 43 Resp: 1148723
Ion Ratio Lower Upper
43 100
58 26.9 22.6 34.0

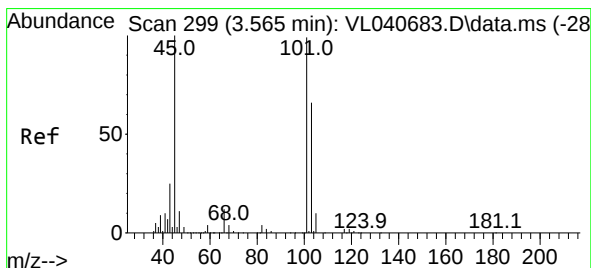
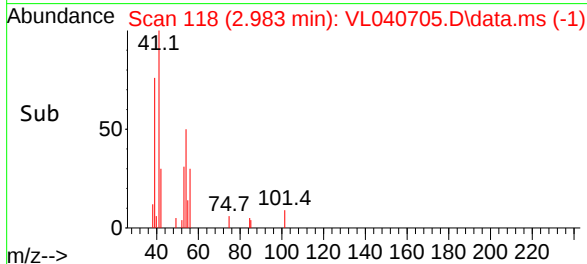
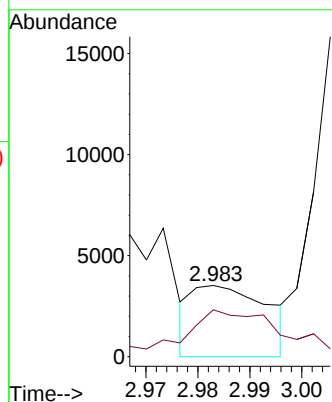
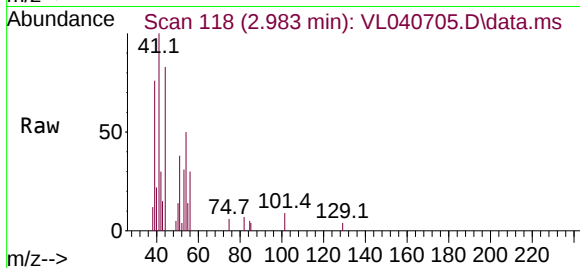




#16
1,3-Butadiene
Concen: 0.063 ppbv
RT: 2.983 min Scan# 115
Delta R.T. -0.006 min
Lab File: VL040705.D
Acq: 18 Sep 2023 19:03

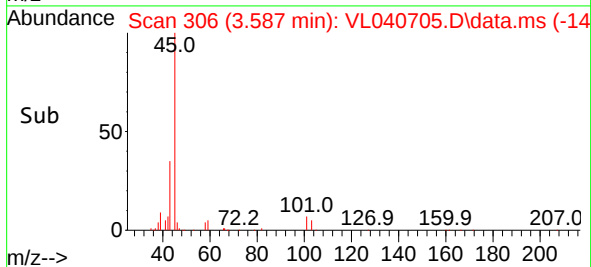
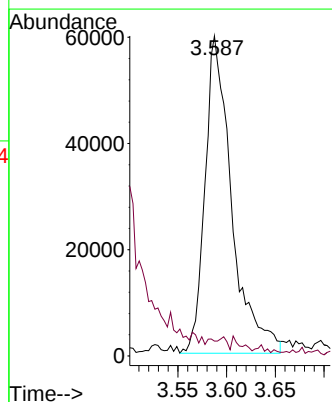
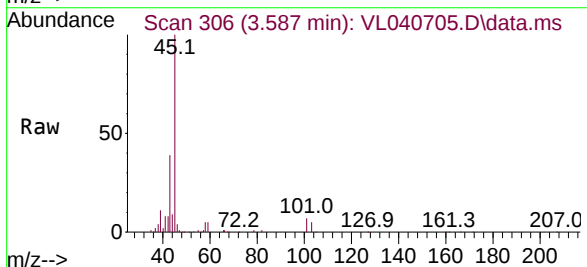
Instrument :
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ClientSampleId :
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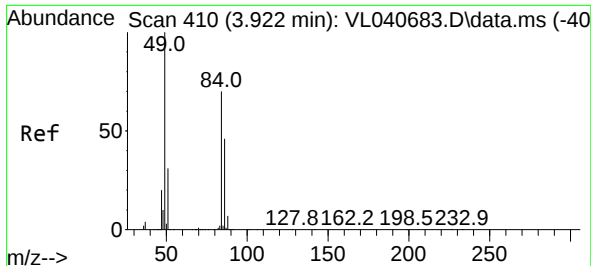
Tgt Ion: 39 Resp: 3541
Ion Ratio Lower Upper
39 100
54 130.6 64.8 97.2#



#19
Isopropyl Alcohol
Concen: 1.460 ppbv
RT: 3.587 min Scan# 306
Delta R.T. 0.010 min
Lab File: VL040705.D
Acq: 18 Sep 2023 19:03

Tgt Ion: 45 Resp: 114030
Ion Ratio Lower Upper
45 100
58 271.0 1.9 2.9#



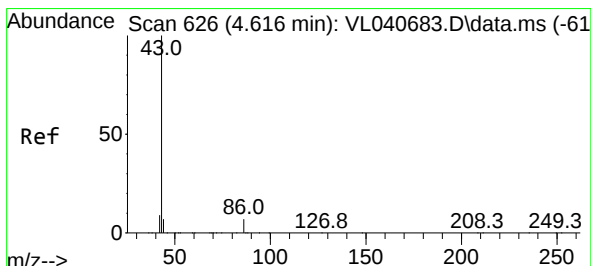
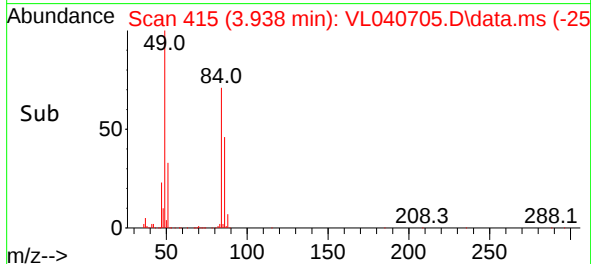
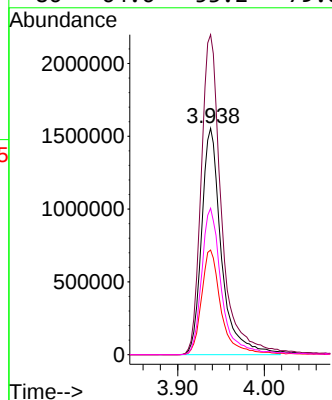
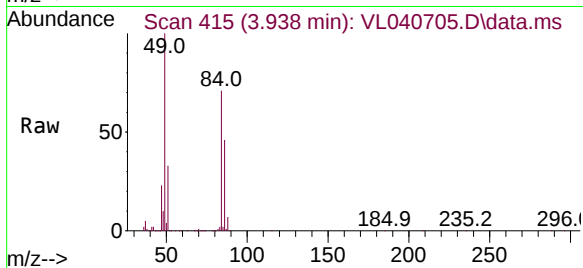


#20
Methylene Chloride
Concen: 35.529 ppbv
RT: 3.938 min Scan# 410
Delta R.T. 0.000 min
Lab File: VL040705.D
Acq: 18 Sep 2023 19:03

Instrument :
MSVOA_L
ClientSampleId :
ST-5

Tgt Ion: 84 Resp: 2478783

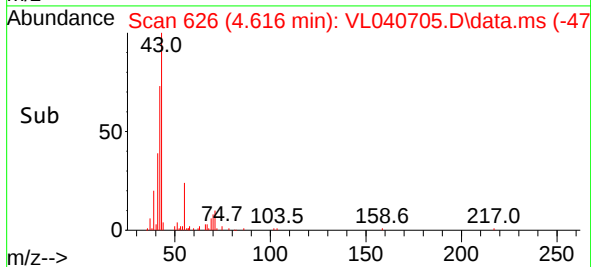
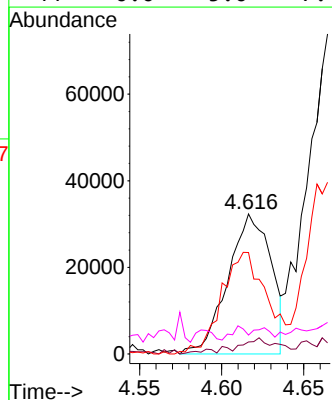
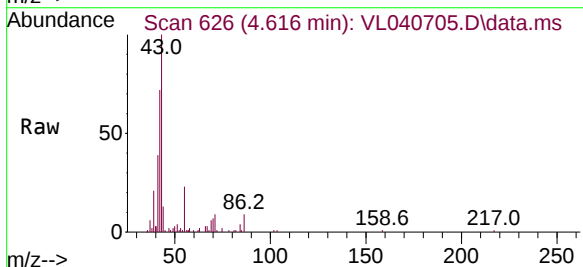
Ion	Ratio	Lower	Upper
84	100		
49	141.3	114.4	171.6
51	46.2	35.5	53.3
86	64.6	53.2	79.8

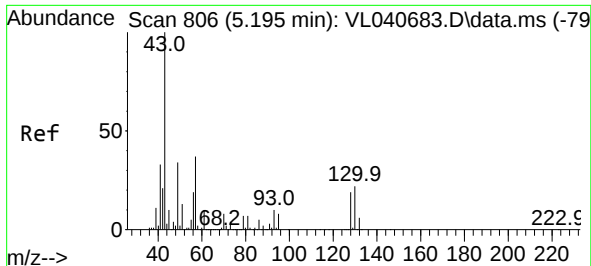


#23
Vinyl Acetate
Concen: 0.439 ppbv
RT: 4.616 min Scan# 626
Delta R.T. -0.016 min
Lab File: VL040705.D
Acq: 18 Sep 2023 19:03

Tgt Ion: 43 Resp: 58904

Ion	Ratio	Lower	Upper
43	100		
86	8.6	5.6	8.4#
42	70.6	7.6	11.4#
44	0.0	5.0	7.4#





#25

Ethyl Acetate

Concen: 5.791 ppbv

RT: 5.221 min Scan# 814

Delta R.T. 0.010 min

Lab File: VL040705.D

Acq: 18 Sep 2023 19:03

Instrument :

MSVOA_L

ClientSampleId :

ST-5

Tgt Ion: 43 Resp: 1210731

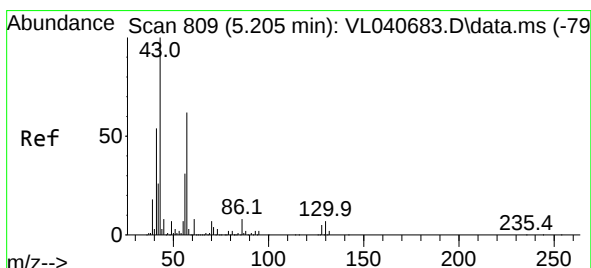
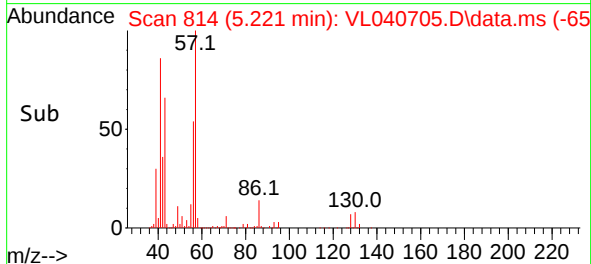
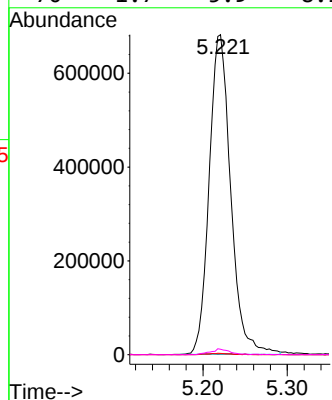
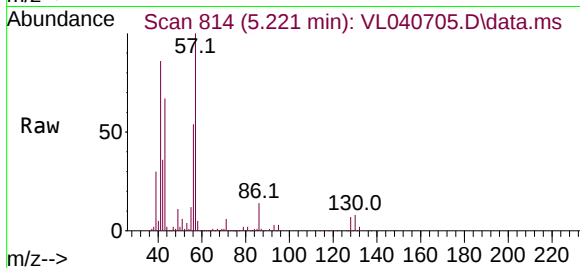
Ion Ratio Lower Upper

43 100

45 0.5 8.2 12.4#

61 0.4 8.2 12.4#

70 1.7 5.9 8.9#



#26

Hexane

Concen: 18.223 ppbv

RT: 5.221 min Scan# 814

Delta R.T. 0.000 min

Lab File: VL040705.D

Acq: 18 Sep 2023 19:03

Tgt Ion: 57 Resp: 1801437

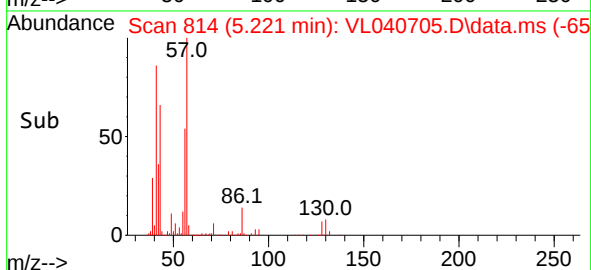
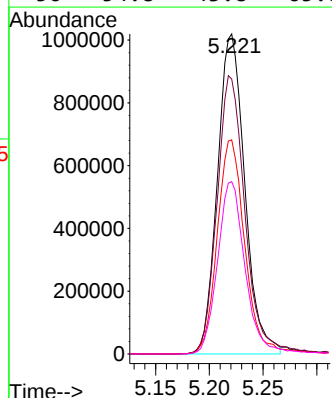
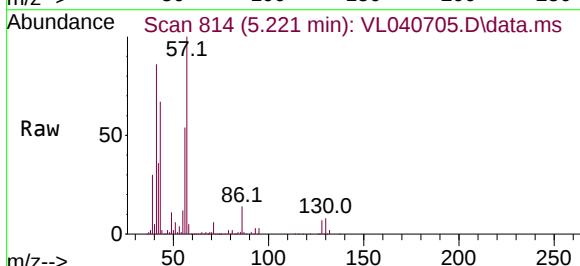
Ion Ratio Lower Upper

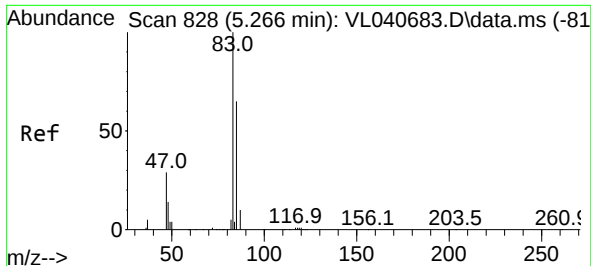
57 100

41 89.7 75.2 112.8

43 68.1 185.6 278.4#

56 54.8 43.8 65.8

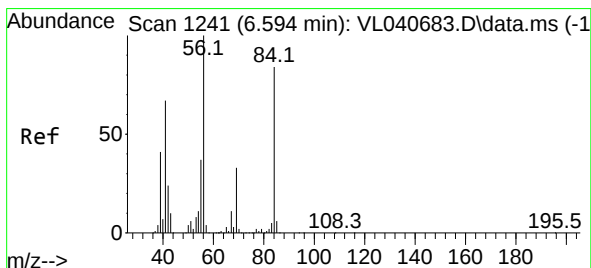
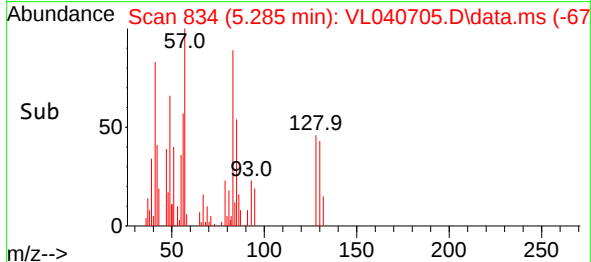
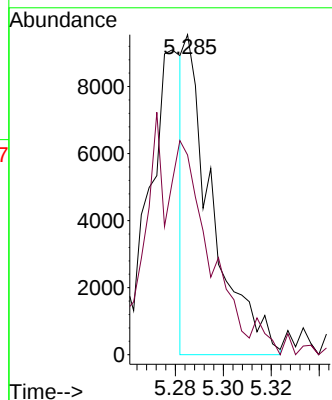
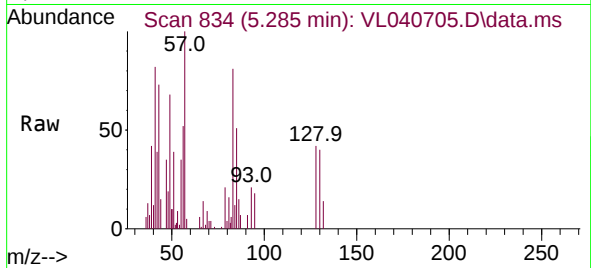




#29
Chloroform
Concen: 0.045 ppbv
RT: 5.285 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL040705.D
Acq: 18 Sep 2023 19:03

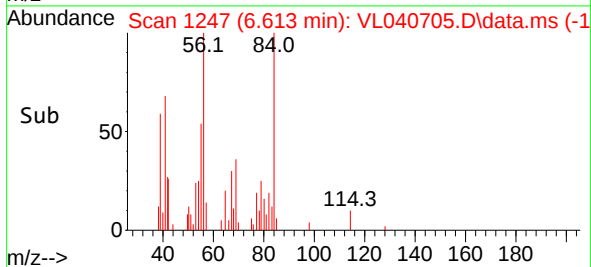
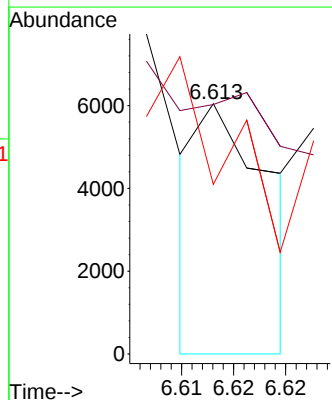
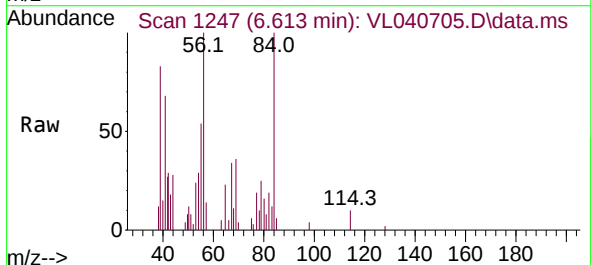
Instrument :
MSVOA_L
ClientSampleId :
ST-5

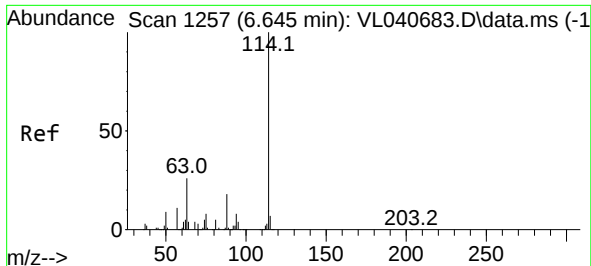
Tgt Ion: 83 Resp: 7712
Ion Ratio Lower Upper
83 100
85 63.4 51.8 77.8



#30
Cyclohexane
Concen: 0.039 ppbv
RT: 6.613 min Scan# 1247
Delta R.T. 0.003 min
Lab File: VL040705.D
Acq: 18 Sep 2023 19:03

Tgt Ion: 84 Resp: 2871
Ion Ratio Lower Upper
84 100
56 0.0 103.2 154.8#
41 467.8 65.5 98.3#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.661 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL040705.D

Acq: 18 Sep 2023 19:03

Instrument :

MSVOA_L

ClientSampleId :

ST-5

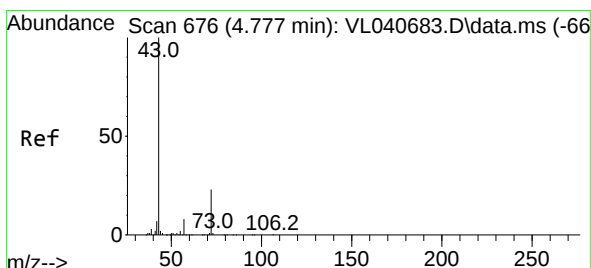
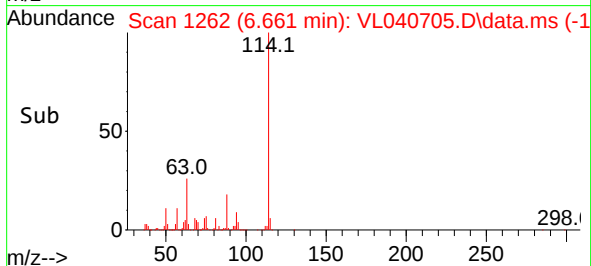
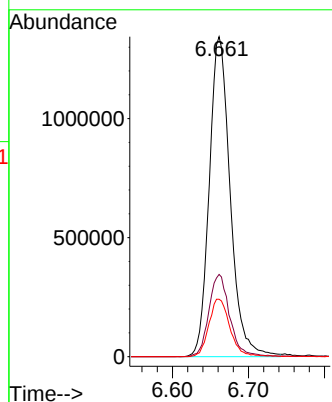
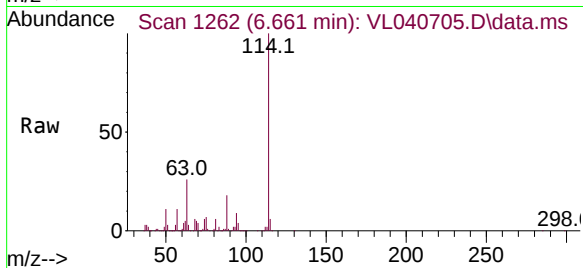
Tgt Ion:114 Resp: 2570390

Ion Ratio Lower Upper

114 100

63 25.8 21.1 31.7

88 18.2 14.5 21.7



#34

2-Butanone

Concen: 0.344 ppbv

RT: 4.800 min Scan# 683

Delta R.T. 0.010 min

Lab File: VL040705.D

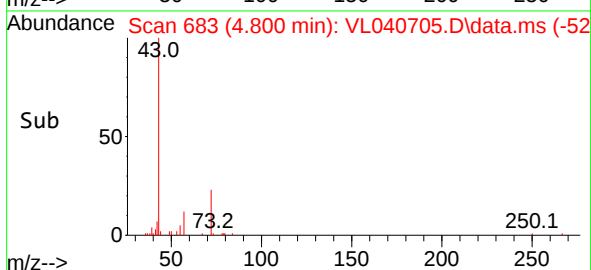
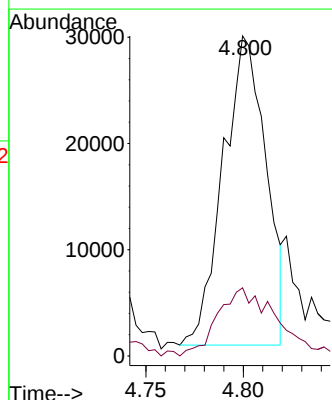
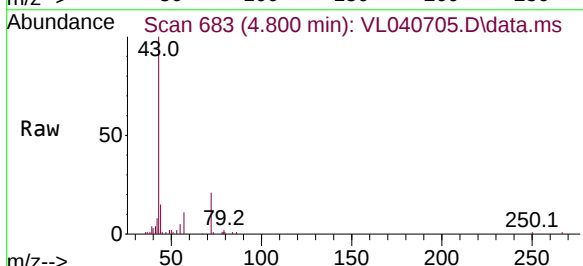
Acq: 18 Sep 2023 19:03

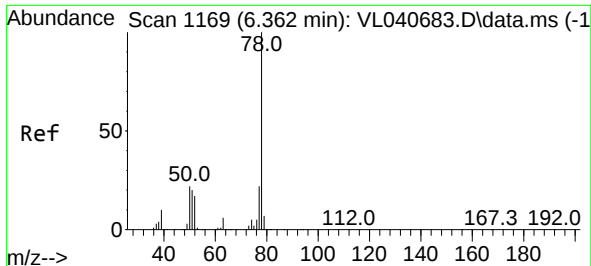
Tgt Ion: 43 Resp: 44510

Ion Ratio Lower Upper

43 100

72 30.6 18.6 27.8#





#36

Benzene

Concen: 0.306 ppbv

RT: 6.375 min Scan# 1169

Delta R.T. -0.006 min

Lab File: VL040705.D

Acq: 18 Sep 2023 19:03

Instrument :

MSVOA_L

ClientSampleId :

ST-5

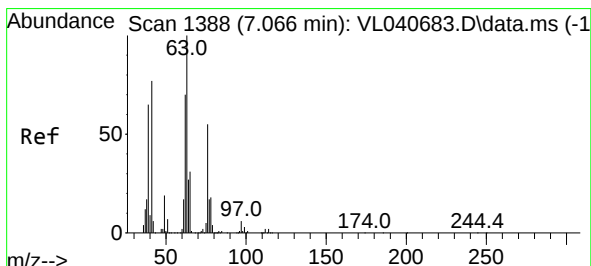
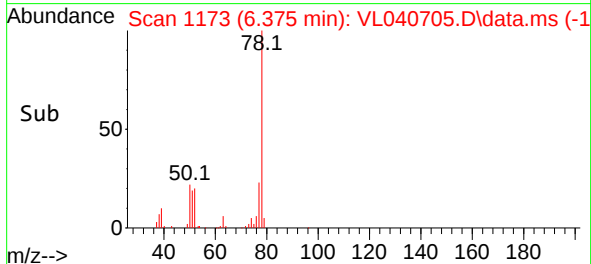
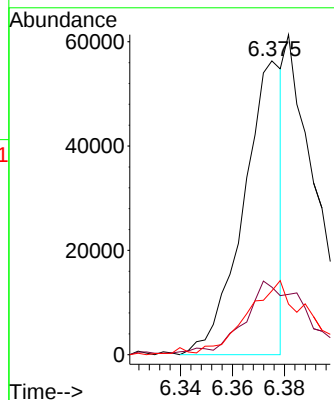
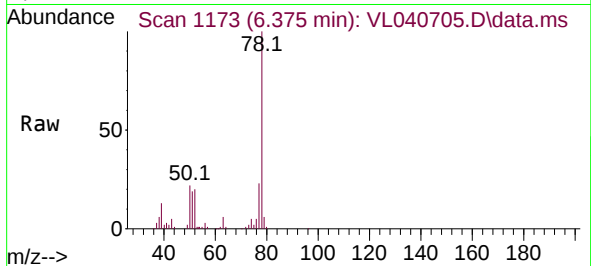
Tgt Ion: 78 Resp: 58191

Ion Ratio Lower Upper

78 100

77 22.1 17.9 26.9

50 18.9 17.3 25.9



#39

1,2-Dichloropropane

Concen: 8.906 ppbv

RT: 6.661 min Scan# 1262

Delta R.T. -0.421 min

Lab File: VL040705.D

Acq: 18 Sep 2023 19:03

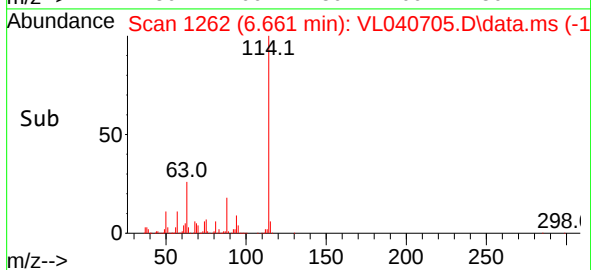
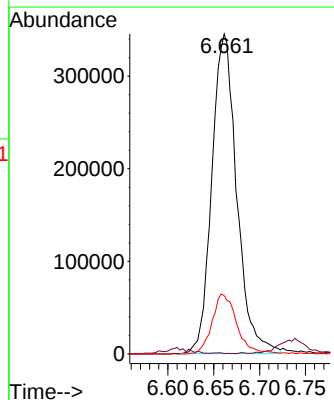
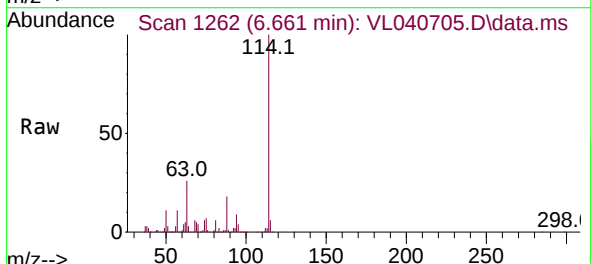
Tgt Ion: 63 Resp: 652478

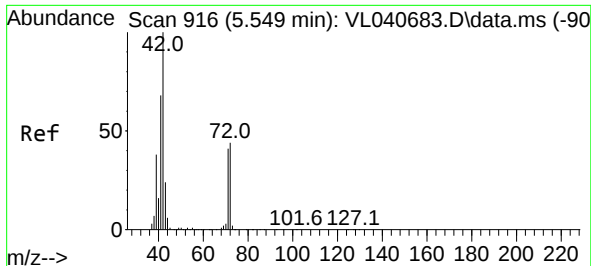
Ion Ratio Lower Upper

63 100

41 0.0 61.6 92.4#

62 18.2 55.8 83.8#





#41

Tetrahydrofuran

Concen: 0.124 ppbv

RT: 5.829 min Scan# 1003

Delta R.T. 0.267 min

Lab File: VL040705.D

Acq: 18 Sep 2023 19:03

Instrument :

MSVOA_L

ClientSampleId :

ST-5

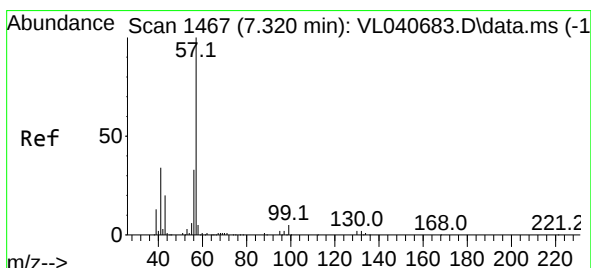
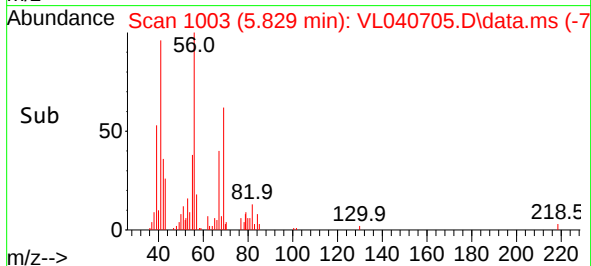
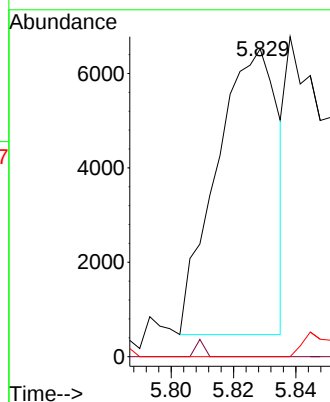
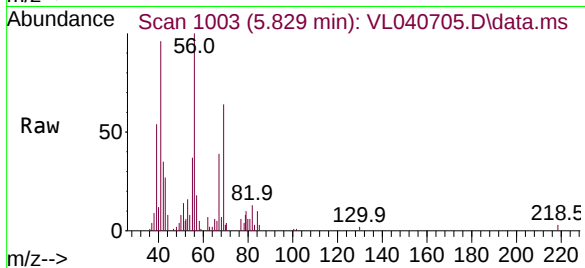
Tgt Ion: 42 Resp: 8226

Ion Ratio Lower Upper

42 100

72 3.5 34.9 52.3#

71 0.0 33.8 50.8#



#44

2,2,4-Trimethylpentane

Concen: 1.059 ppbv

RT: 7.340 min Scan# 1473

Delta R.T. 0.003 min

Lab File: VL040705.D

Acq: 18 Sep 2023 19:03

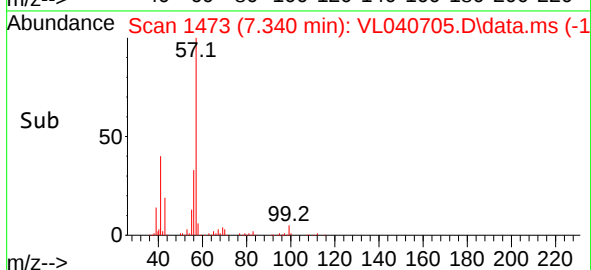
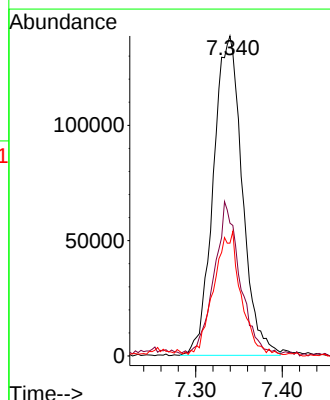
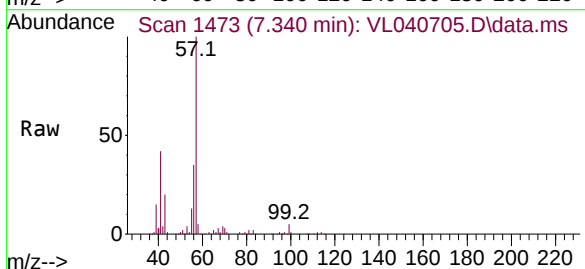
Tgt Ion: 57 Resp: 320966

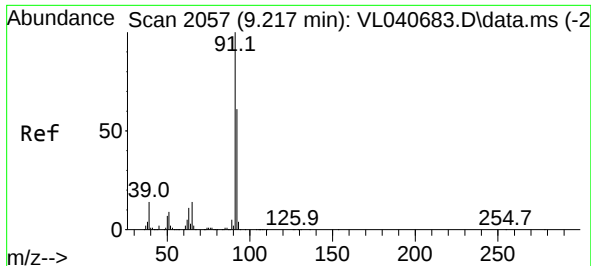
Ion Ratio Lower Upper

57 100

41 43.3 28.5 42.7#

56 39.9 25.4 38.2#

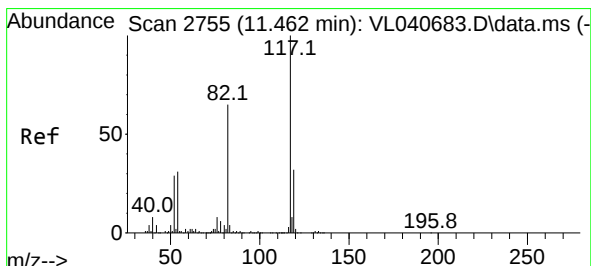
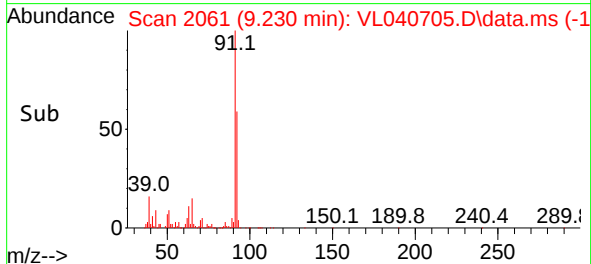
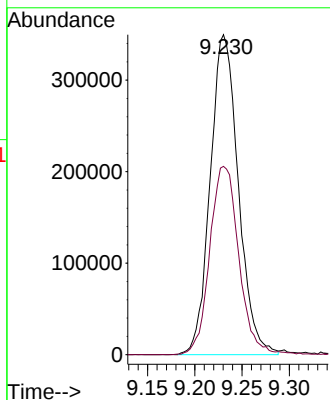
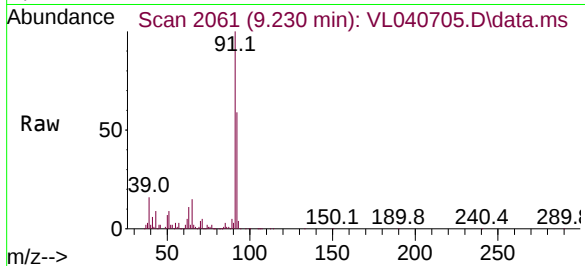




#53
Toluene
Concen: 3.599 ppbv
RT: 9.230 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VL040705.D
Acq: 18 Sep 2023 19:03

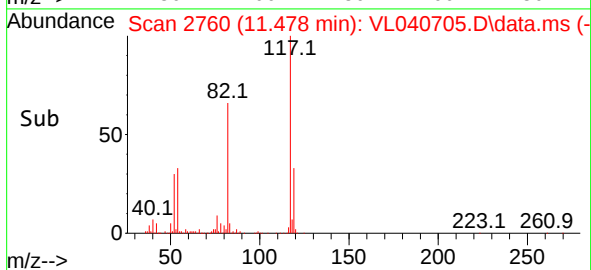
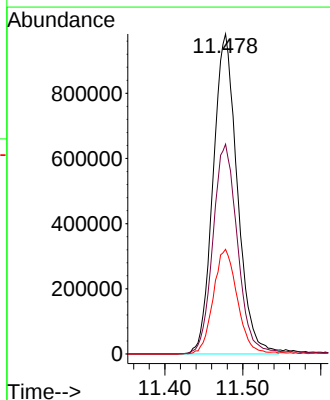
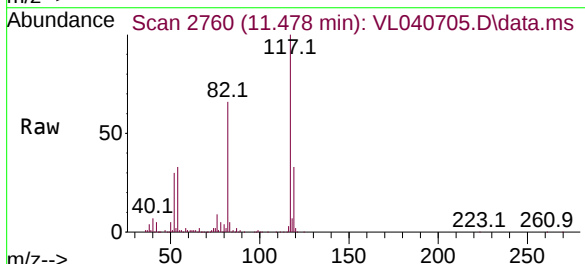
Instrument :
MSVOA_L
ClientSampleId :
ST-5

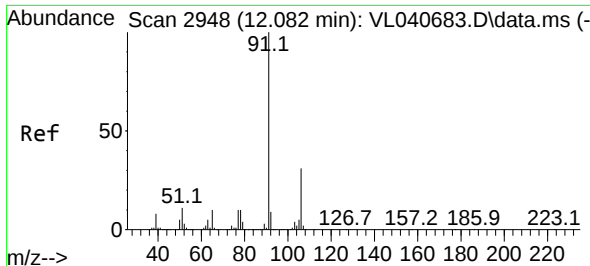
Tgt Ion: 91 Resp: 723227
Ion Ratio Lower Upper
91 100
92 61.0 48.5 72.7



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.478 min Scan# 2760
Delta R.T. 0.000 min
Lab File: VL040705.D
Acq: 18 Sep 2023 19:03

Tgt Ion: 117 Resp: 2118160
Ion Ratio Lower Upper
117 100
82 67.6 51.4 77.0
119 33.1 24.7 37.1





#58

Ethyl Benzene

Concen: 0.096 ppbv

RT: 12.098 min Scan# 2948

Delta R.T. -0.003 min

Lab File: VL040705.D

Acq: 18 Sep 2023 19:03

Instrument :

MSVOA_1

ClientSampleId :

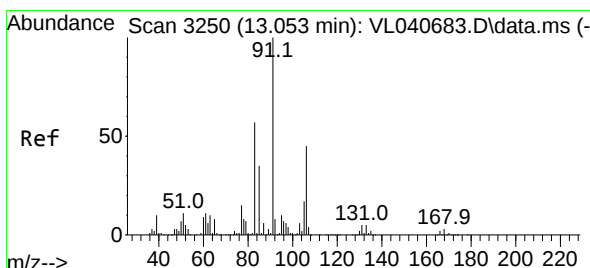
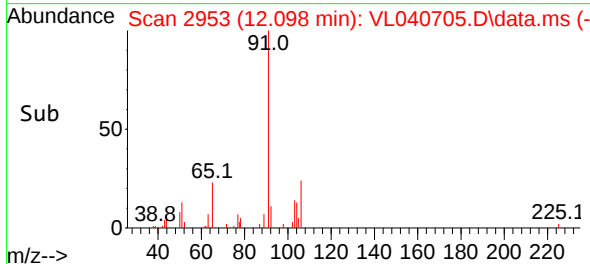
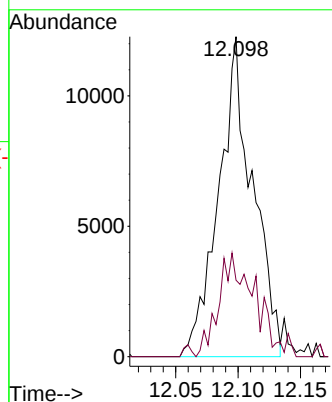
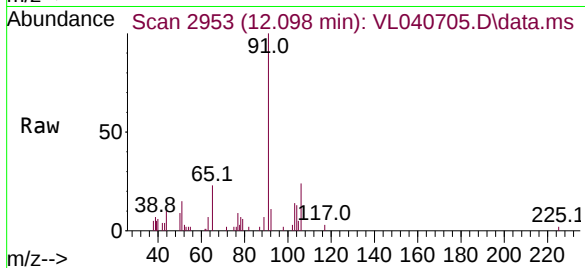
ST-5

Tgt Ion: 91 Resp: 23298

Ion Ratio Lower Upper

91 100

106 23.9 24.7 37.1#



#60

o-Xylene

Concen: 0.048 ppbv

RT: 13.069 min Scan# 3255

Delta R.T. 0.000 min

Lab File: VL040705.D

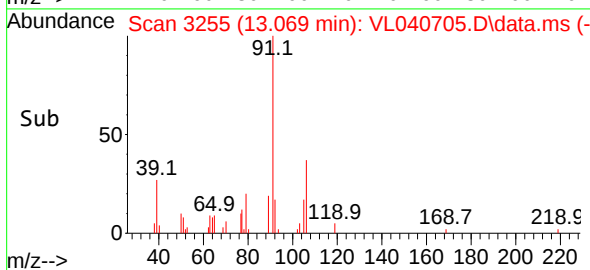
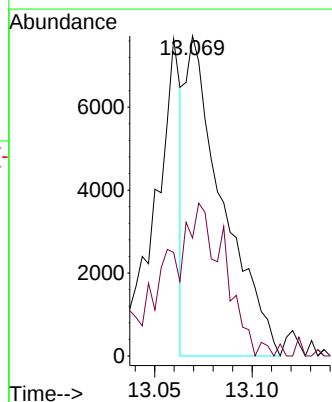
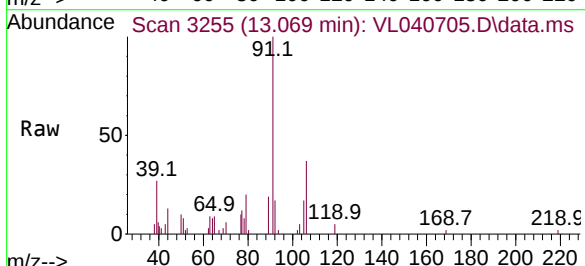
Acq: 18 Sep 2023 19:03

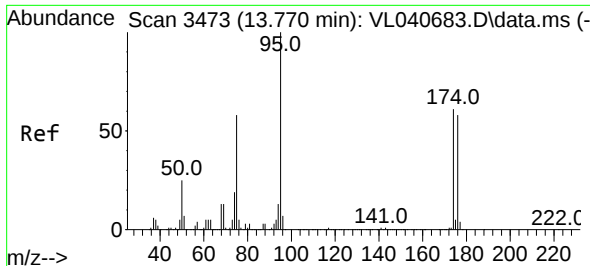
Tgt Ion: 91 Resp: 10308

Ion Ratio Lower Upper

91 100

106 76.4 22.3 66.9#

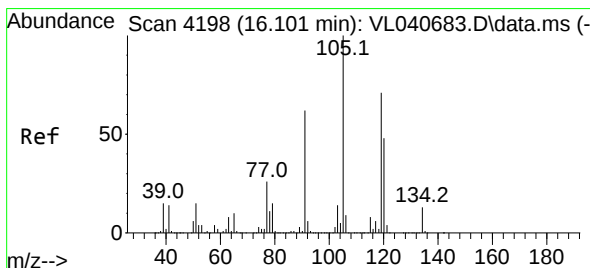
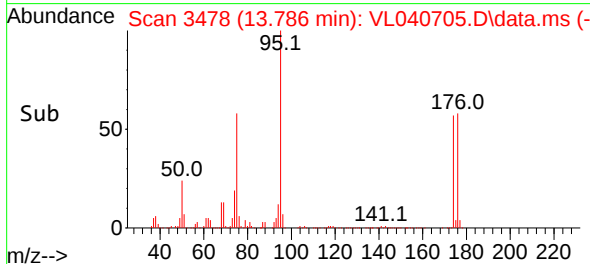
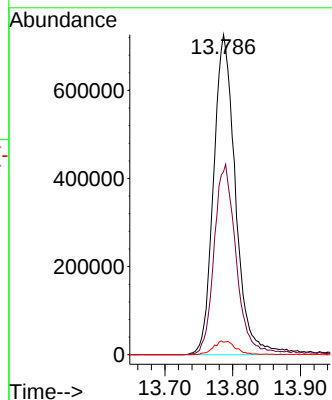
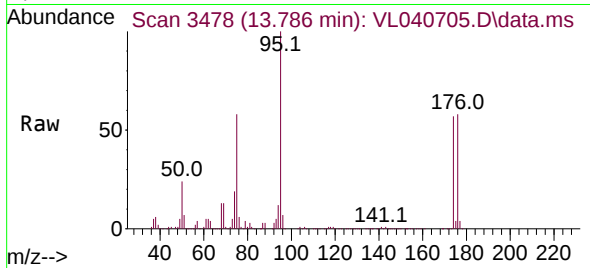




#68
1-Bromo-4-Fluorobenzene
Concen: 9.940 ppbv
RT: 13.786 min Scan# 34
Delta R.T. 0.000 min
Lab File: VL040705.D
Acq: 18 Sep 2023 19:03

Instrument :
MSVOA_L
ClientSampleId :
ST-5

Tgt Ion: 95 Resp: 1626680
Ion Ratio Lower Upper
95 100
174 61.4 48.9 73.3
175 4.4 3.5 5.3



#74
1,2,4-Trimethylbenzene
Concen: 0.036 ppbv
RT: 16.114 min Scan# 4202
Delta R.T. -0.003 min
Lab File: VL040705.D
Acq: 18 Sep 2023 19:03

Tgt Ion:105 Resp: 9674
Ion Ratio Lower Upper
105 100
120 25.5 38.6 57.8#
91 6.7 50.0 75.0#
77 0.0 20.6 31.0#

