

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091823\
 Data File : VL040706.D
 Acq On : 18 Sep 2023 19:42
 Operator : SY/MD
 Sample : 04402-04DL 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ST-5DL

Quant Time: Sep 19 05:21:18 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)

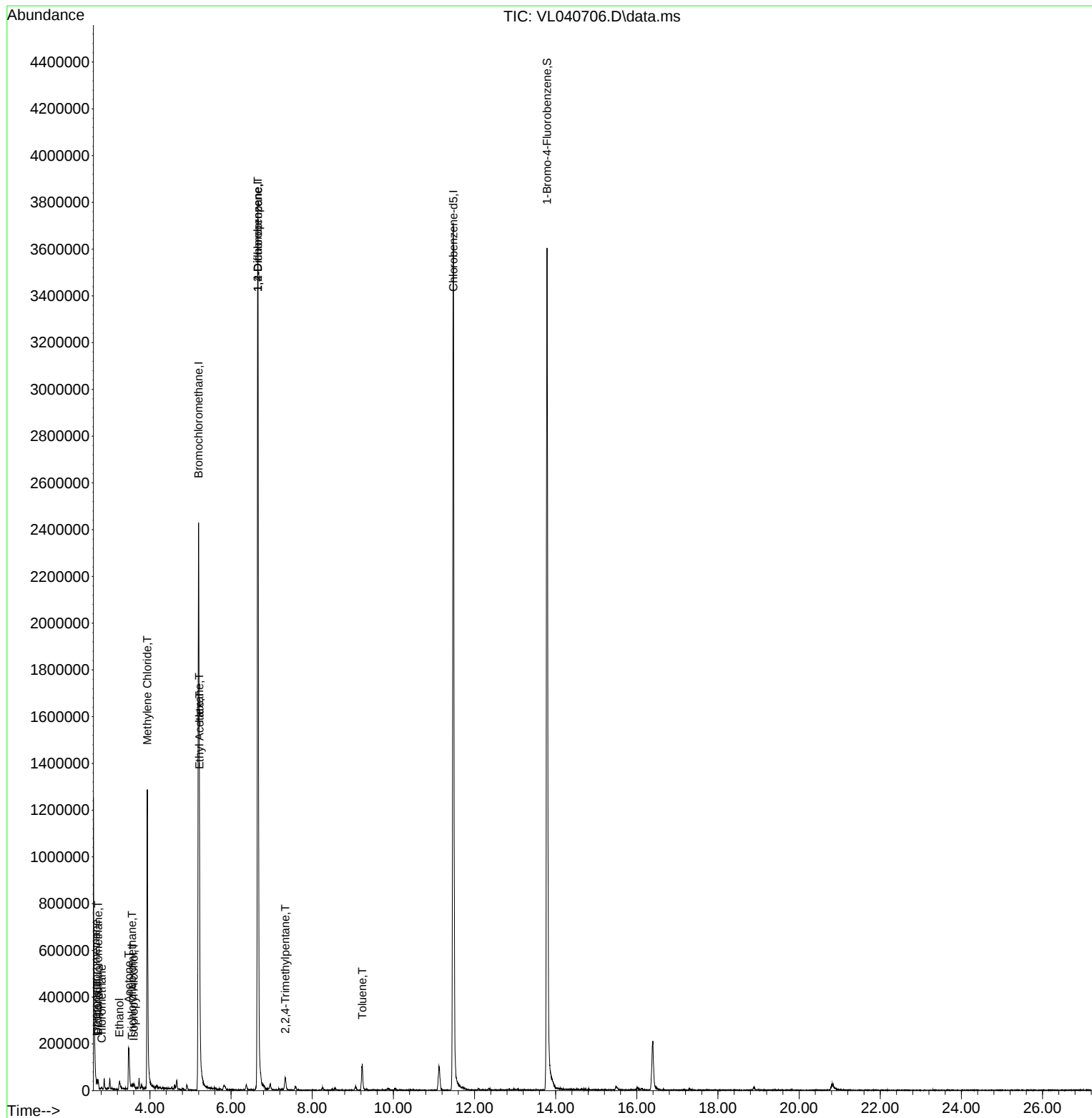
Internal Standards						
1) Bromochloromethane	5.198	49	1005724	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2644048	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.478	117	2273037	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.789	95	1728421	9.842	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.726	85	20908	0.094	ppbv #	80
3) Chlorodifluoromethane	2.674	51	17233	0.105	ppbv #	87
4) Chloromethane	2.812	50	3301	0.053	ppbv #	41
9) Propene	2.700	41	7536	0.160	ppbv	98
11) Trichlorofluoromethane	3.558	101	8591	0.044	ppbv #	76
13) Ethanol	3.246	45	27906	1.997	ppbv #	37
15) Acetone	3.475	43	197830	1.491	ppbv	96
19) Isopropyl Alcohol	3.600	45	10406	0.130	ppbv #	93
20) Methylene Chloride	3.935	84	436568	6.114	ppbv	99
25) Ethyl Acetate	5.221	43	186460	0.871	ppbv #	77
26) Hexane	5.217	57	272798	2.696	ppbv #	39
39) 1,2-Dichloropropane	6.658	63	673030	8.930	ppbv #	24
44) 2,2,4-Trimethylpentane	7.336	57	17519	0.056	ppbv #	1
53) Toluene	9.233	91	69080	0.334	ppbv	94

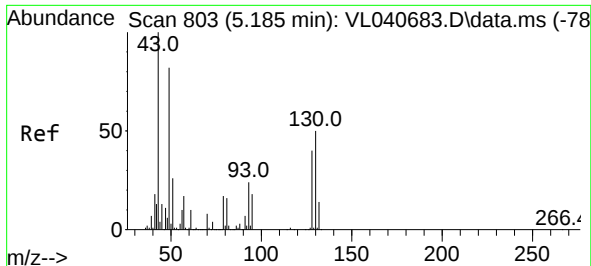
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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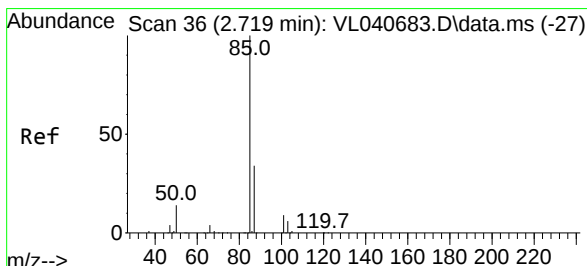
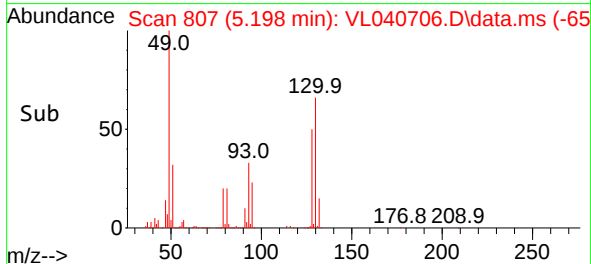
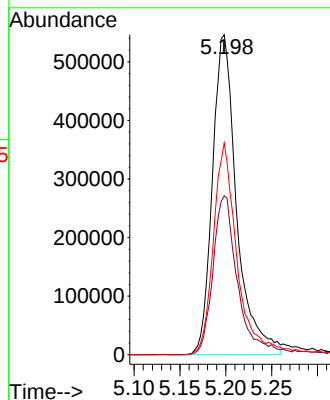
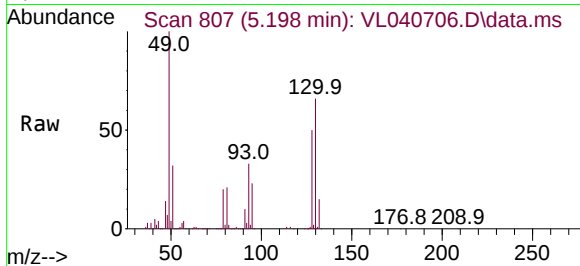




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.198 min Scan# 80
Delta R.T. 0.000 min
Lab File: VL040706.D
Acq: 18 Sep 2023 19:42

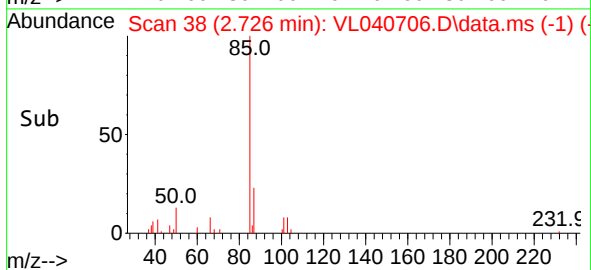
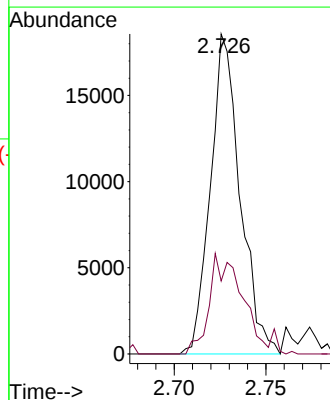
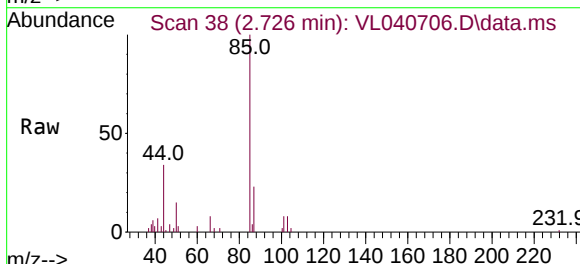
Instrument :
MSVOA_L
ClientSampleId :
ST-5DL

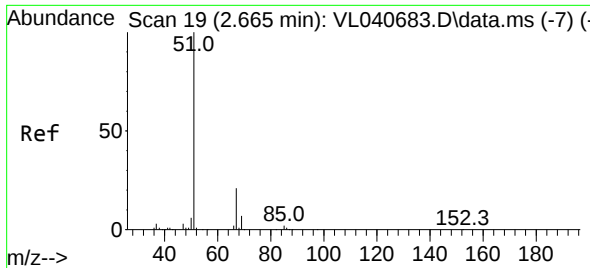
Tgt Ion: 49 Resp: 1005724
Ion Ratio Lower Upper
49 100
128 52.5 25.4 76.0
130 67.1 32.3 96.8



#2
Dichlorodifluoromethane
Concen: 0.094 ppbv
RT: 2.726 min Scan# 38
Delta R.T. -0.006 min
Lab File: VL040706.D
Acq: 18 Sep 2023 19:42

Tgt Ion: 85 Resp: 20908
Ion Ratio Lower Upper
85 100
87 22.8 27.2 40.8

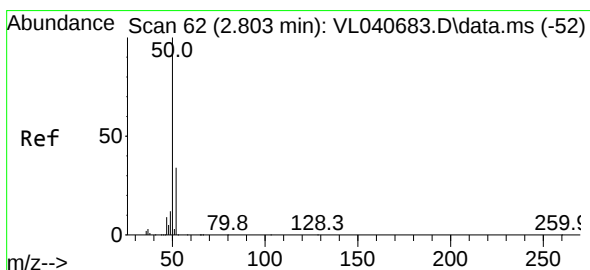
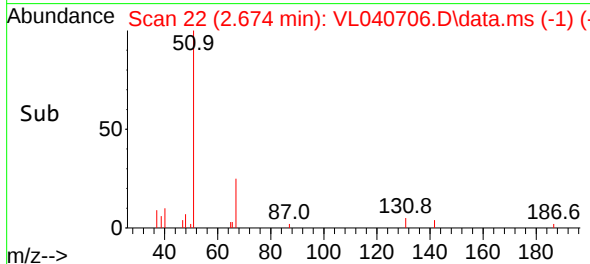
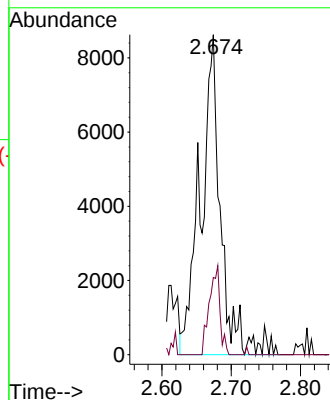
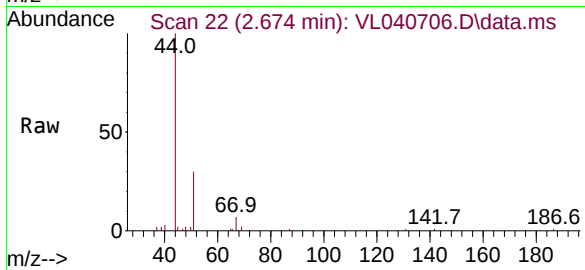




#3
Chlorodifluoromethane
Concen: 0.105 ppbv
RT: 2.674 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL040706.D
Acq: 18 Sep 2023 19:42

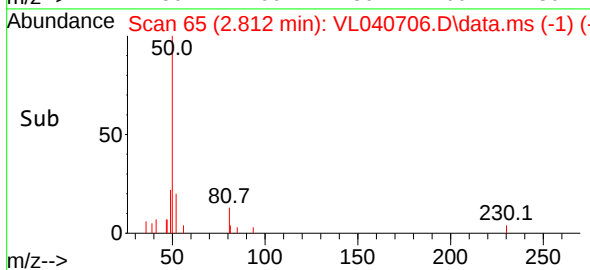
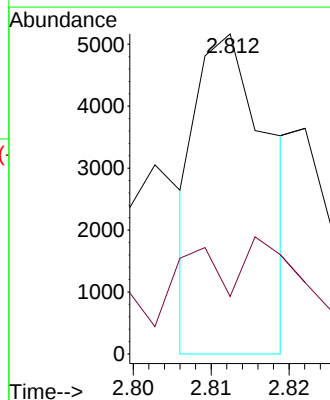
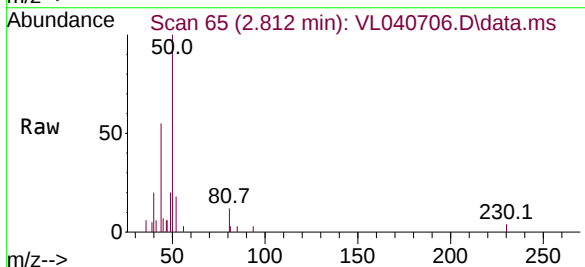
Instrument :
MSVOA_L
ClientSampleId :
ST-5DL

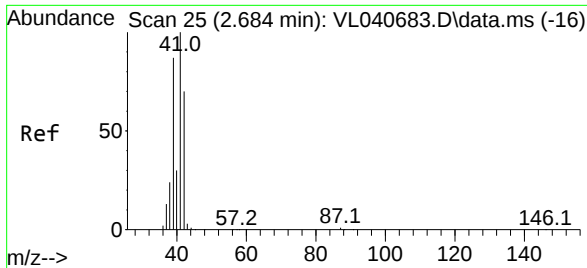
Tgt Ion: 51 Resp: 17233
Ion Ratio Lower Upper
51 100
67 14.8 16.7 25.1#



#4
Chloromethane
Concen: 0.053 ppbv
RT: 2.812 min Scan# 65
Delta R.T. -0.003 min
Lab File: VL040706.D
Acq: 18 Sep 2023 19:42

Tgt Ion: 50 Resp: 3301
Ion Ratio Lower Upper
50 100
52 0.0 27.1 40.7#





#9

Propene

Concen: 0.160 ppbv

RT: 2.700 min Scan# 30

Delta R.T. 0.003 min

Lab File: VL040706.D

Acq: 18 Sep 2023 19:42

Instrument :

MSVOA_L

ClientSampleId :

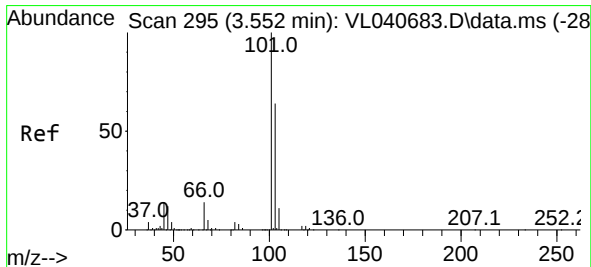
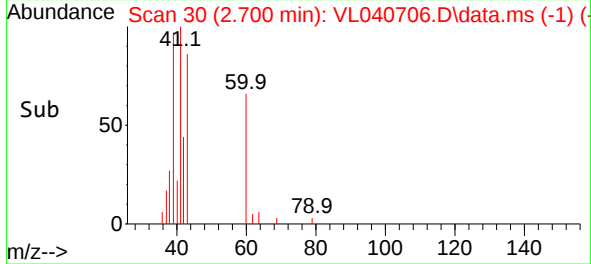
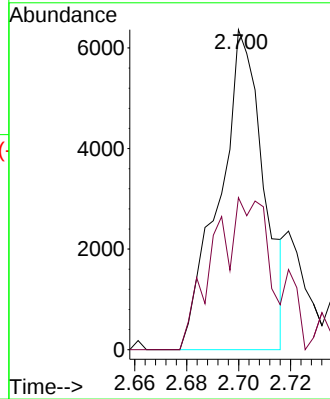
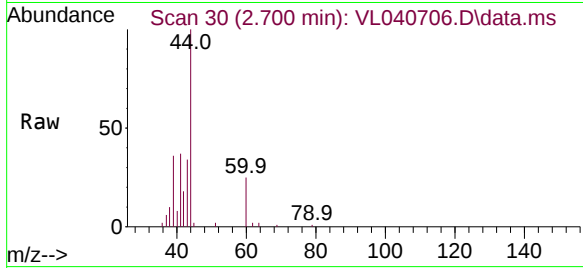
ST-5DL

Tgt Ion: 41 Resp: 7536

Ion Ratio Lower Upper

41 100

42 72.7 56.7 85.1



#11

Trichlorofluoromethane

Concen: 0.044 ppbv

RT: 3.558 min Scan# 297

Delta R.T. -0.010 min

Lab File: VL040706.D

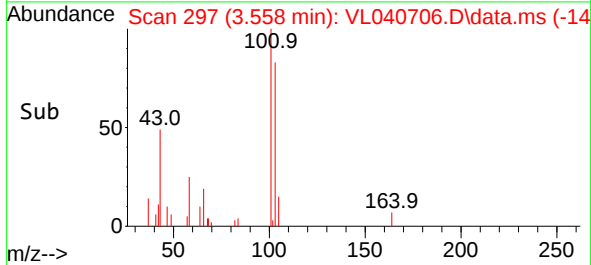
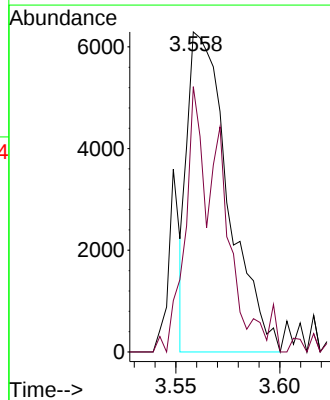
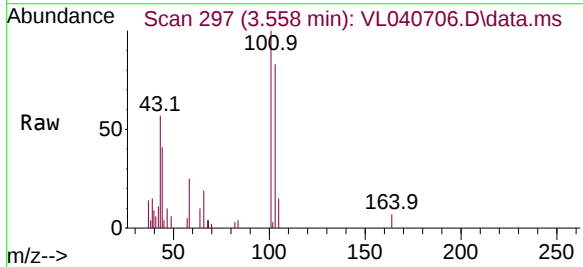
Acq: 18 Sep 2023 19:42

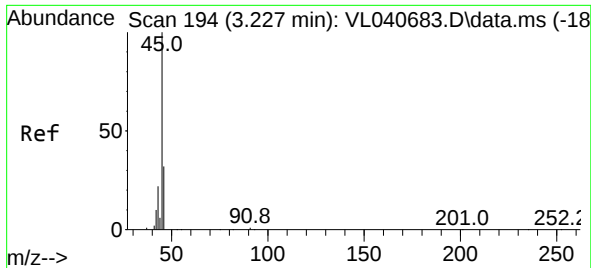
Tgt Ion: 101 Resp: 8591

Ion Ratio Lower Upper

101 100

103 82.9 51.3 76.9#

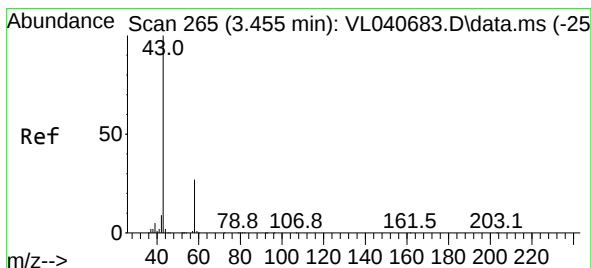
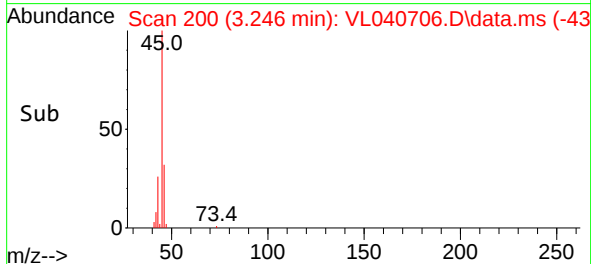
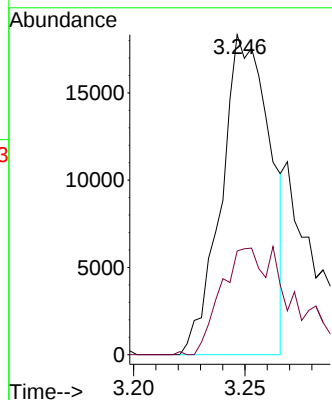
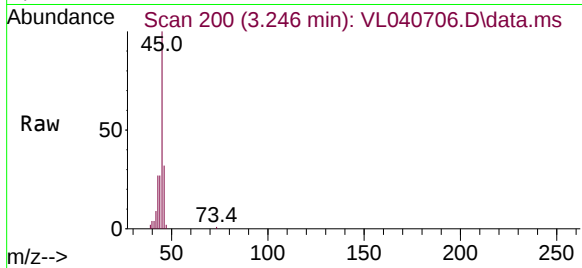




#13
 Ethanol
 Concen: 1.997 ppbv
 RT: 3.246 min Scan# 200
 Delta R.T. 0.003 min
 Lab File: VL040706.D
 Acq: 18 Sep 2023 19:42

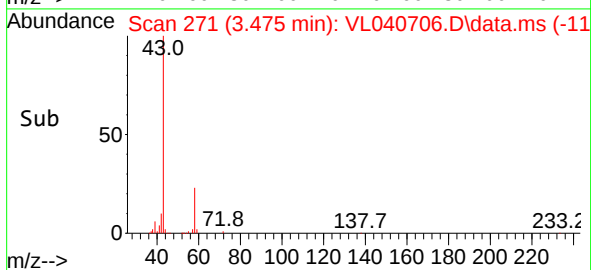
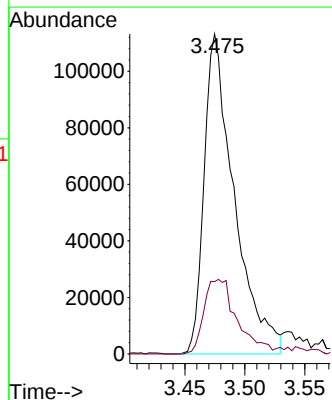
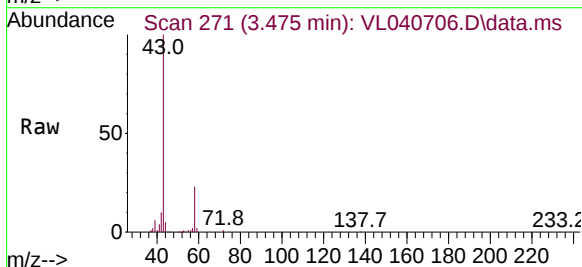
Instrument :
 MSVOA_L
 ClientSampleId :
 ST-5DL

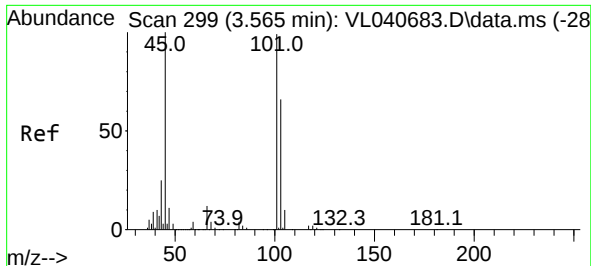
Tgt Ion: 45 Resp: 27906
 Ion Ratio Lower Upper
 45 100
 46 0.0 15.2 61.0#



#15
 Acetone
 Concen: 1.491 ppbv
 RT: 3.475 min Scan# 271
 Delta R.T. 0.003 min
 Lab File: VL040706.D
 Acq: 18 Sep 2023 19:42

Tgt Ion: 43 Resp: 197830
 Ion Ratio Lower Upper
 43 100
 58 26.1 22.6 34.0





#19

Isopropyl Alcohol

Concen: 0.130 ppbv

RT: 3.600 min Scan# 310

Delta R.T. 0.023 min

Lab File: VL040706.D

Acq: 18 Sep 2023 19:42

Instrument :

MSVOA_L

ClientSampleId :

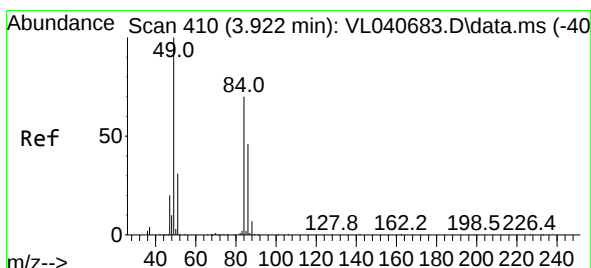
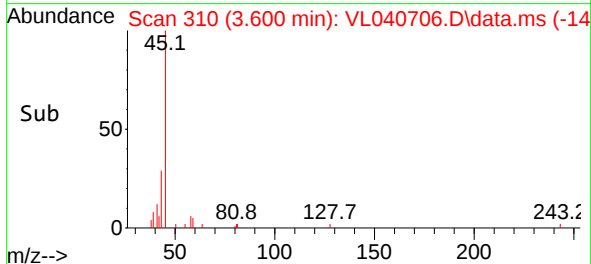
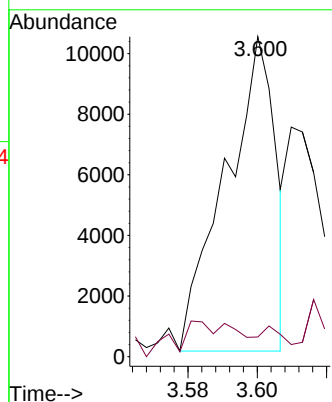
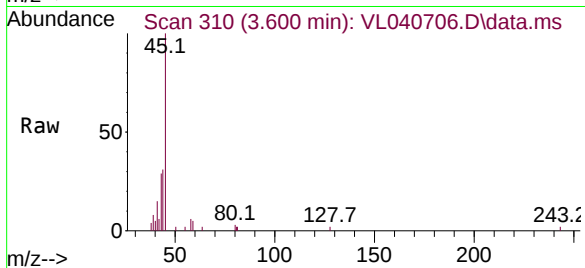
ST-5DL

Tgt Ion: 45 Resp: 10406

Ion Ratio Lower Upper

45 100

58 0.0 1.9 2.9#



#20

Methylene Chloride

Concen: 6.114 ppbv

RT: 3.935 min Scan# 414

Delta R.T. -0.003 min

Lab File: VL040706.D

Acq: 18 Sep 2023 19:42

Tgt Ion: 84 Resp: 436568

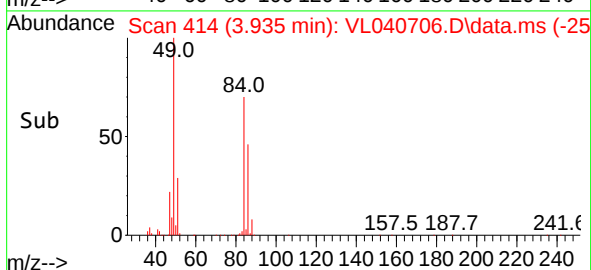
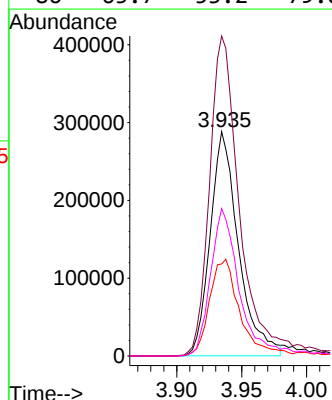
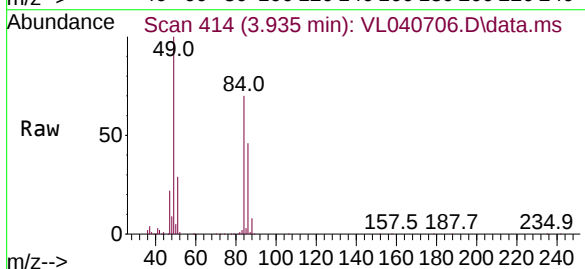
Ion Ratio Lower Upper

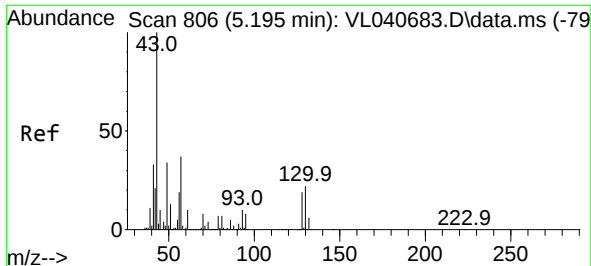
84 100

49 142.4 114.4 171.6

51 40.9 35.5 53.3

86 65.7 53.2 79.8





#25

Ethyl Acetate

Concen: 0.871 ppbv

RT: 5.221 min Scan# 814

Delta R.T. 0.010 min

Lab File: VL040706.D

Acq: 18 Sep 2023 19:42

Instrument :

MSVOA_L

ClientSampleId :

ST-5DL

Tgt Ion: 43 Resp: 186460

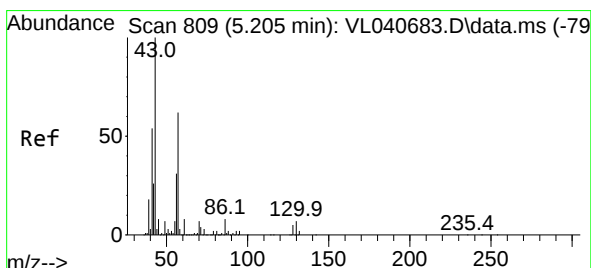
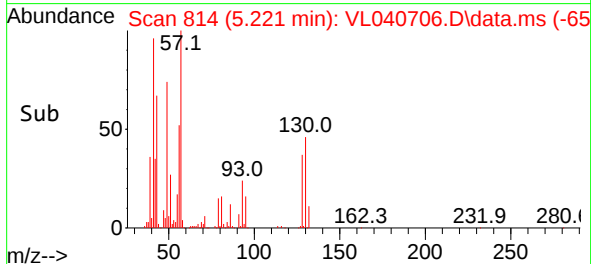
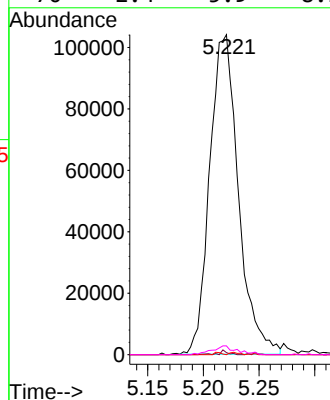
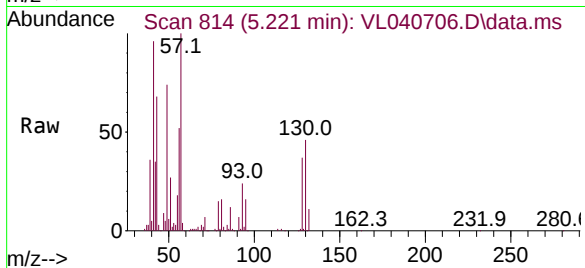
Ion Ratio Lower Upper

43 100

45 0.5 8.2 12.4#

61 0.5 8.2 12.4#

70 2.4 5.9 8.9#



#26

Hexane

Concen: 2.696 ppbv

RT: 5.217 min Scan# 813

Delta R.T. -0.003 min

Lab File: VL040706.D

Acq: 18 Sep 2023 19:42

Tgt Ion: 57 Resp: 272798

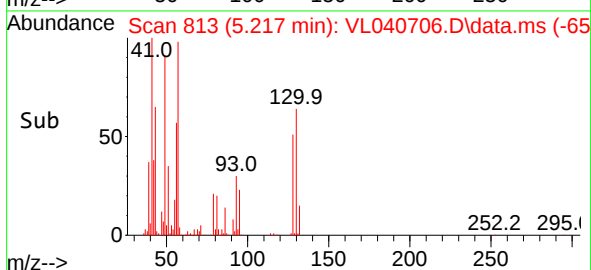
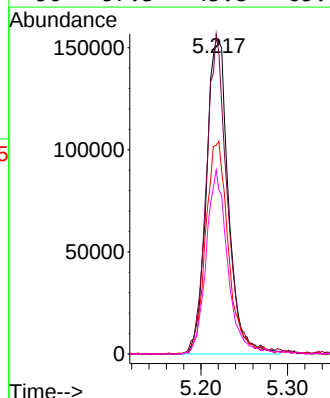
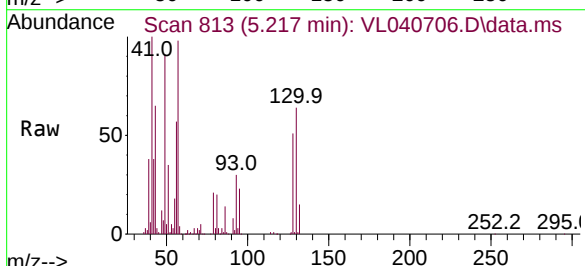
Ion Ratio Lower Upper

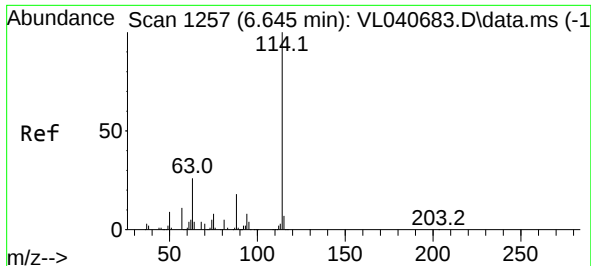
57 100

41 97.2 75.2 112.8

43 70.2 185.6 278.4#

56 57.3 43.8 65.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 1261

Delta R.T. -0.003 min

Lab File: VL040706.D

Acq: 18 Sep 2023 19:42

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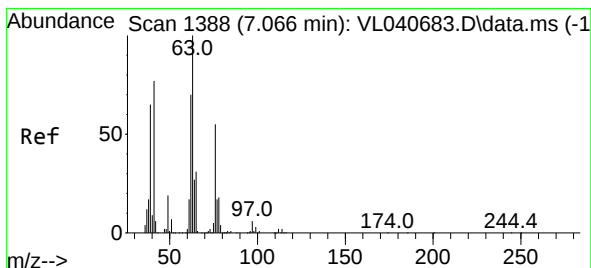
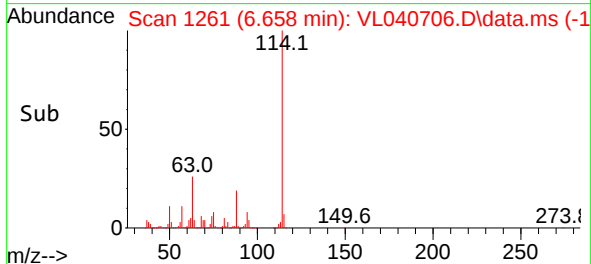
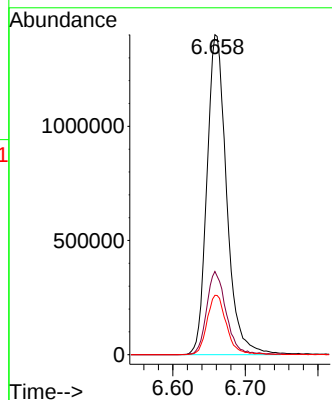
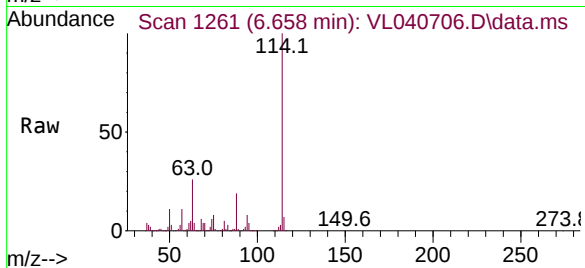
Tgt Ion:114 Resp: 2644048

Ion Ratio Lower Upper

114 100

63 26.2 21.1 31.7

88 18.6 14.5 21.7



#39

1,2-Dichloropropane

Concen: 8.930 ppbv

RT: 6.658 min Scan# 1261

Delta R.T. -0.424 min

Lab File: VL040706.D

Acq: 18 Sep 2023 19:42

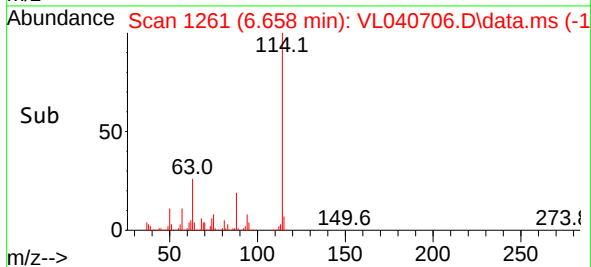
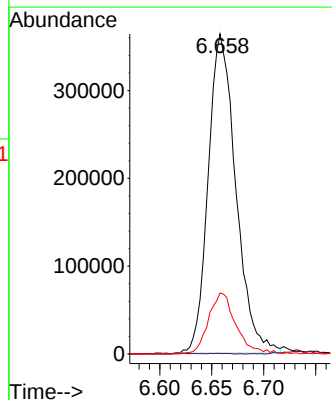
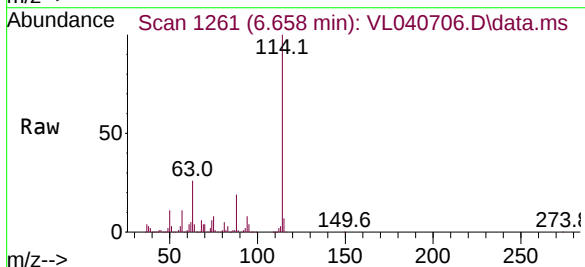
Tgt Ion: 63 Resp: 673030

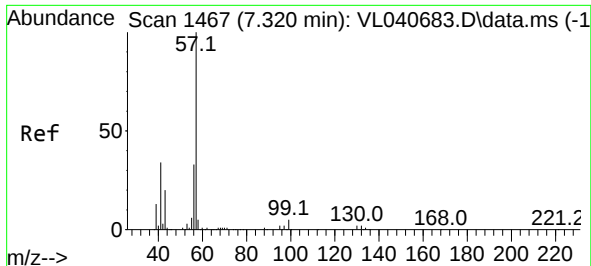
Ion Ratio Lower Upper

63 100

41 0.0 61.6 92.4#

62 19.0 55.8 83.8#

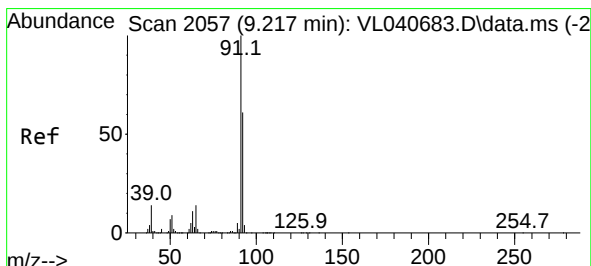
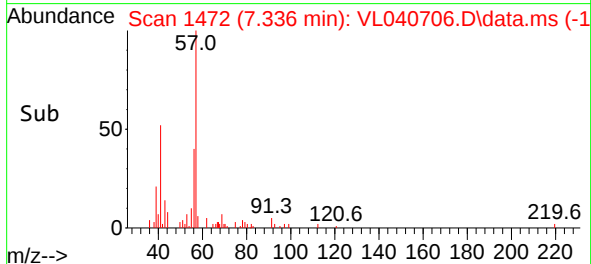
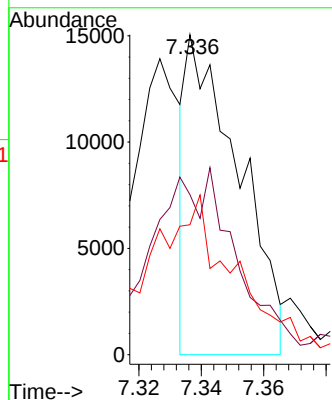
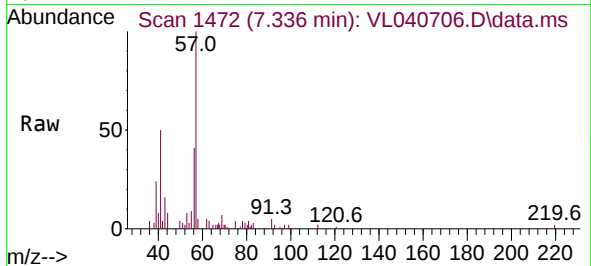




#44
2,2,4-Trimethylpentane
Concen: 0.056 ppbv
RT: 7.336 min Scan# 1467
Delta R.T. 0.000 min
Lab File: VL040706.D
Acq: 18 Sep 2023 19:42

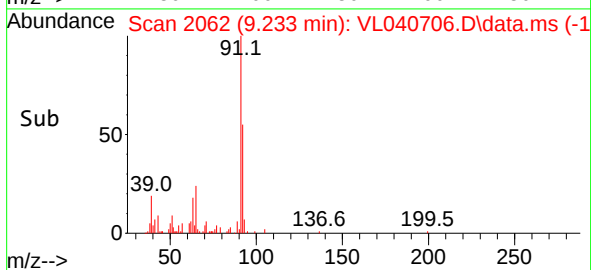
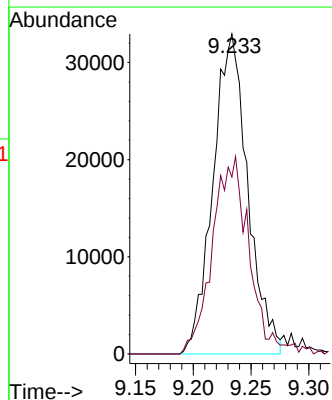
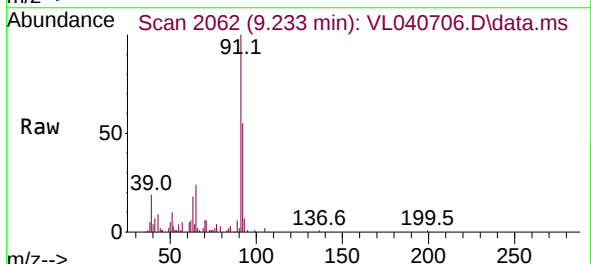
Instrument :
MSVOA_L
ClientSampleId :
ST-5DL

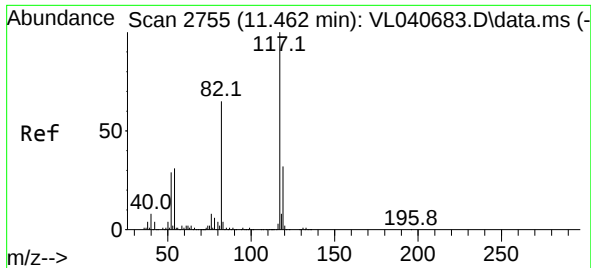
Tgt Ion: 57 Resp: 17519
Ion Ratio Lower Upper
57 100
41 106.8 28.5 42.7#
56 91.2 25.4 38.2#



#53
Toluene
Concen: 0.334 ppbv
RT: 9.233 min Scan# 2062
Delta R.T. 0.003 min
Lab File: VL040706.D
Acq: 18 Sep 2023 19:42

Tgt Ion: 91 Resp: 69080
Ion Ratio Lower Upper
91 100
92 65.3 48.5 72.7

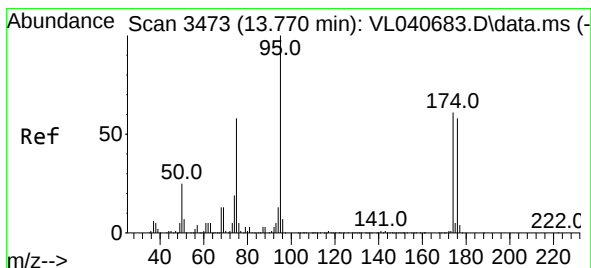
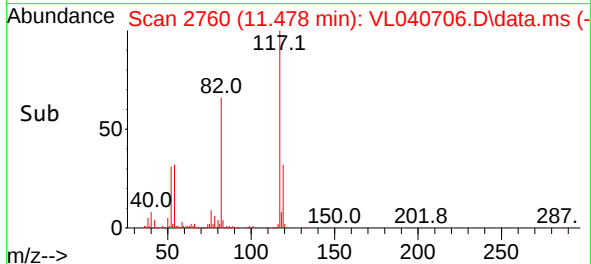
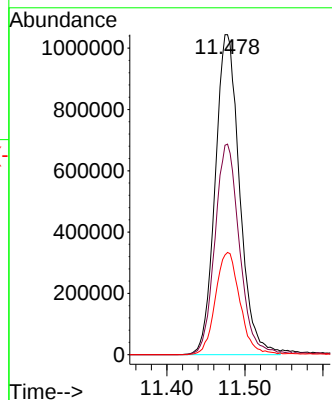
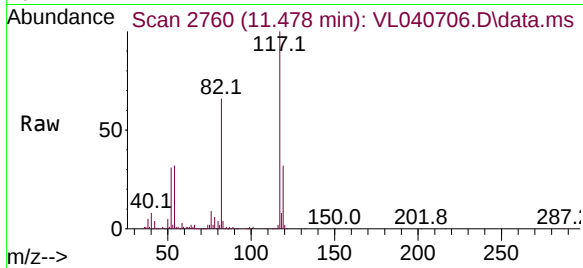




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.478 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL040706.D
Acq: 18 Sep 2023 19:42

Instrument :
MSVOA_L
ClientSampleId :
ST-5DL

Tgt Ion:117 Resp: 2273037
Ion Ratio Lower Upper
117 100
82 67.2 51.4 77.0
119 32.6 24.7 37.1



#68
1-Bromo-4-Fluorobenzene
Concen: 9.842 ppbv
RT: 13.789 min Scan# 3479
Delta R.T. 0.003 min
Lab File: VL040706.D
Acq: 18 Sep 2023 19:42

Tgt Ion: 95 Resp: 1728421
Ion Ratio Lower Upper
95 100
174 61.1 48.9 73.3
175 4.3 3.5 5.3

