

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL051123\
 Data File : VL040410.D
 Acq On : 11 May 2023 21:20
 Operator : SY/MD
 Sample : 02748-03DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-01-20230510DL

Quant Time: May 12 05:58:05 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Apr 13 14:37:02 2023
 Response via : Initial Calibration

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

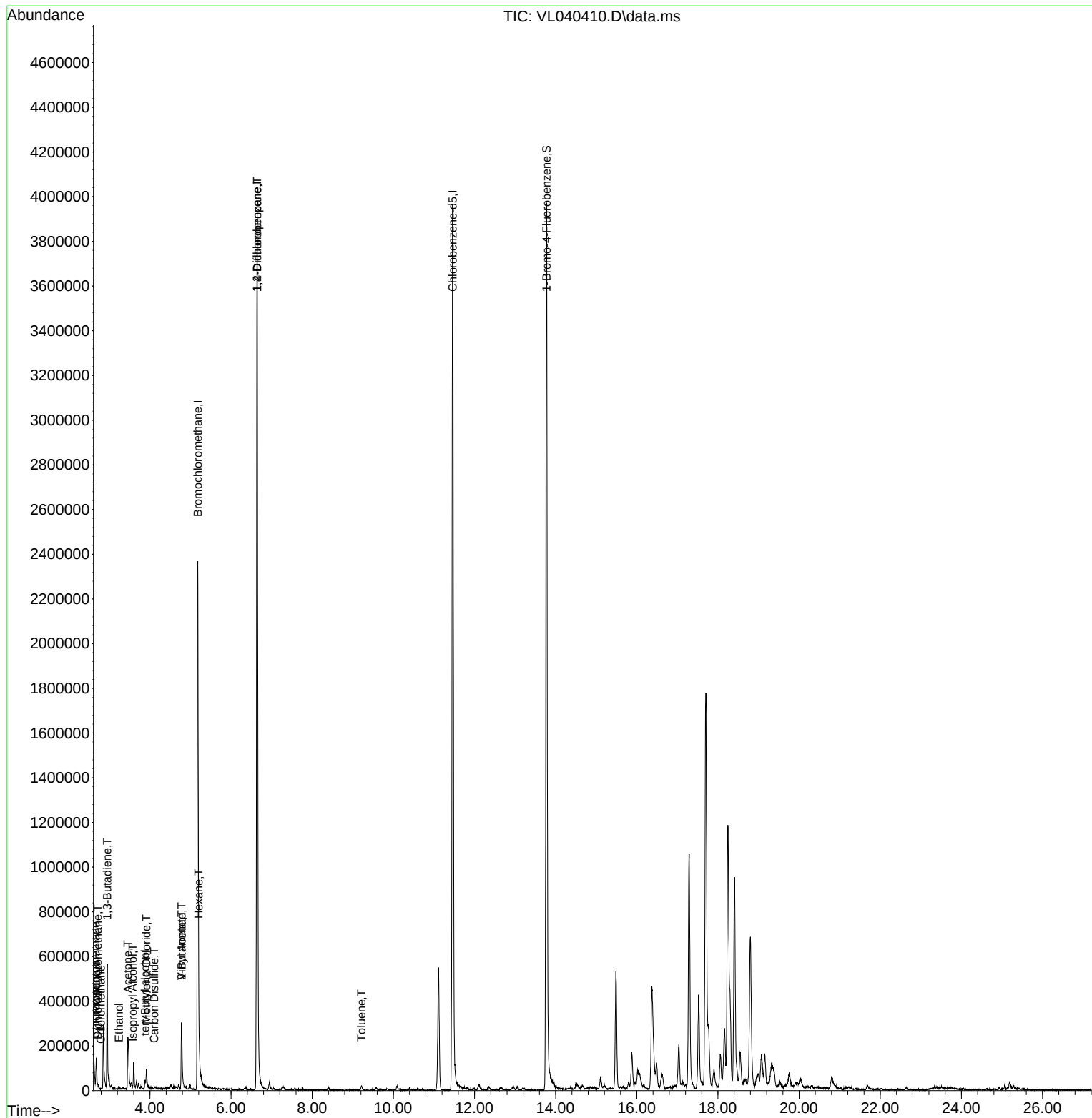
Internal Standards						
1) Bromochloromethane	5.179	49	1149800	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.642	114	2981017	10.000	ppbv	-0.01
55) Chlorobenzene-d5	11.462	117	2592210	10.000	ppbv	-0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	2020488	9.426	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.709	85	7733	0.037	ppbv	98
3) Chlorodifluoromethane	2.658	51	4992	0.033	ppbv #	83
4) Chloromethane	2.790	50	3082	0.032	ppbv #	78
9) Propene	2.677	41	54408	0.917	ppbv	91
13) Ethanol	3.234	45	6855	1.383	ppbv #	39
15) Acetone	3.455	43	247104	1.517	ppbv #	42
16) 1,3-Butadiene	2.947	39	144685	2.147	ppbv #	14
17) tert-Butyl alcohol	3.883	59	21916	0.147	ppbv	97
19) Isopropyl Alcohol	3.574	45	2882	0.039	ppbv #	90
20) Methylene Chloride	3.915	84	26035	0.400	ppbv	98
23) Vinyl Acetate	4.783	43	371925	8.970	ppbv #	87
26) Hexane	5.201	57	10364	0.090	ppbv #	47
27) Carbon Disulfide	4.105	76	6369	0.043	ppbv #	1
34) 2-Butanone	4.783	43	371925	2.314	ppbv	97
39) 1,2-Dichloropropane	6.642	63	731059	7.639	ppbv #	25
53) Toluene	9.214	91	13620	0.053	ppbv	94

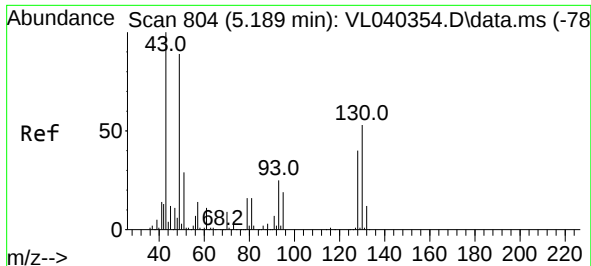
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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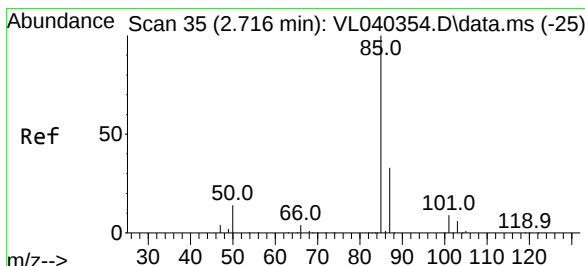
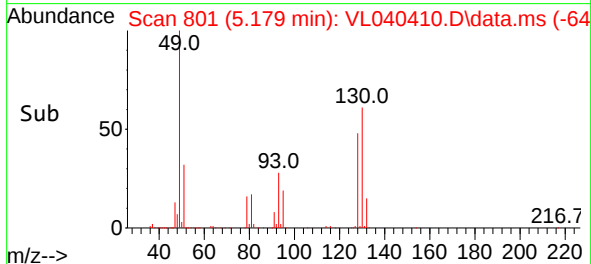
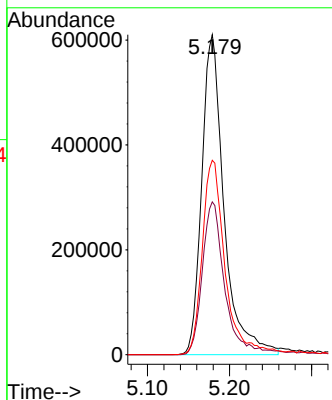
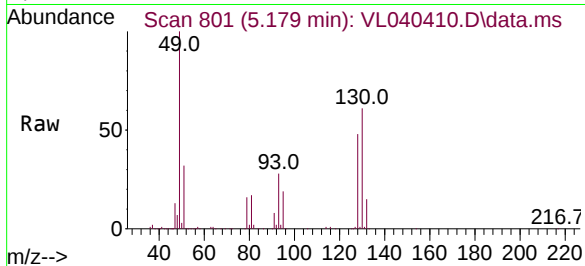




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.179 min Scan# 80
 Delta R.T. -0.010 min
 Lab File: VL040410.D
 Acq: 11 May 2023 21:20

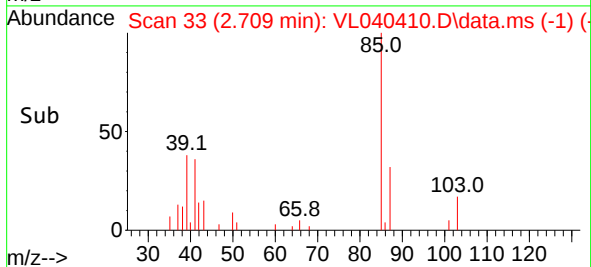
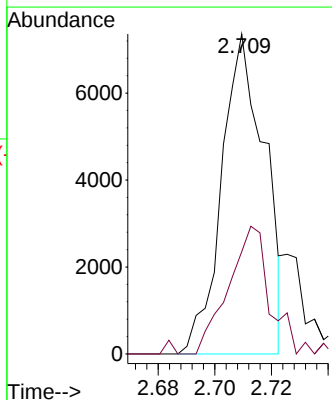
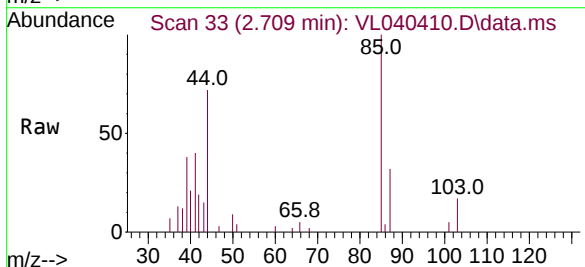
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-01-20230510DL

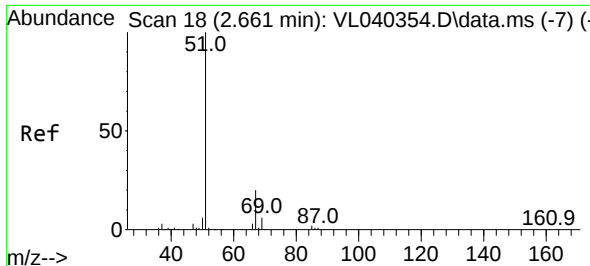
Tgt Ion: 49 Resp: 1149800
 Ion Ratio Lower Upper
 49 100
 128 49.8 23.7 71.1
 130 63.1 29.9 89.8



#2
 Dichlorodifluoromethane
 Concen: 0.037 ppbv
 RT: 2.709 min Scan# 33
 Delta R.T. -0.007 min
 Lab File: VL040410.D
 Acq: 11 May 2023 21:20

Tgt Ion: 85 Resp: 7733
 Ion Ratio Lower Upper
 85 100
 87 31.9 26.6 40.0

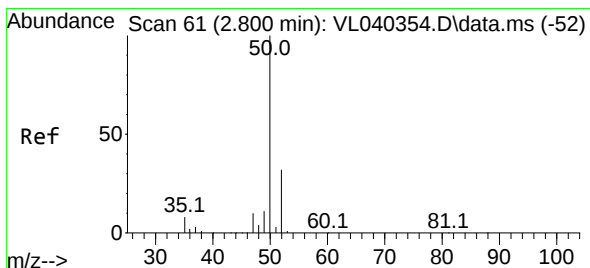
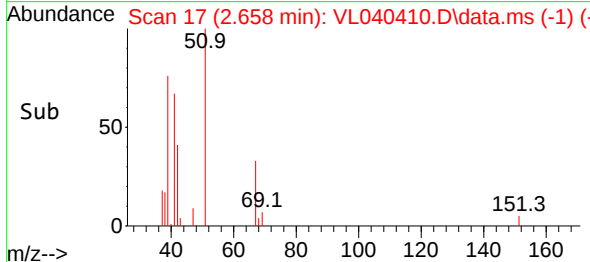
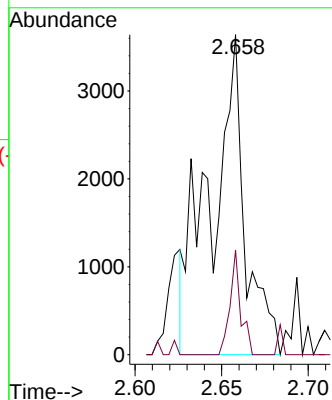
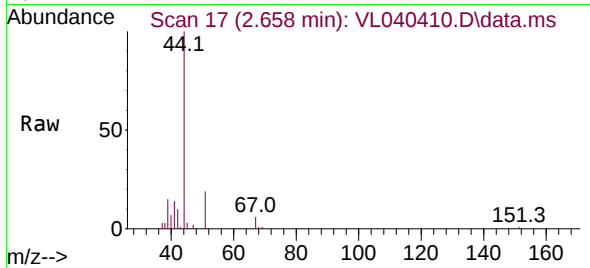




#3
Chlorodifluoromethane
Concen: 0.033 ppbv
RT: 2.658 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL040410.D
Acq: 11 May 2023 21:20

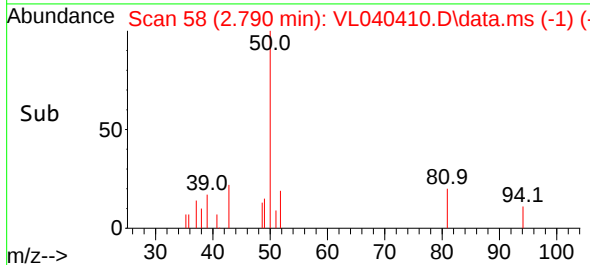
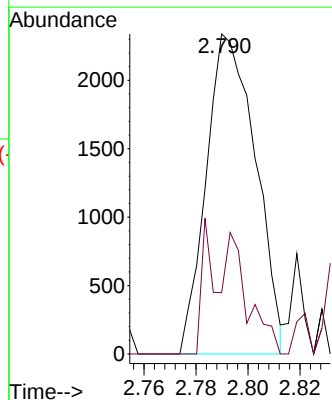
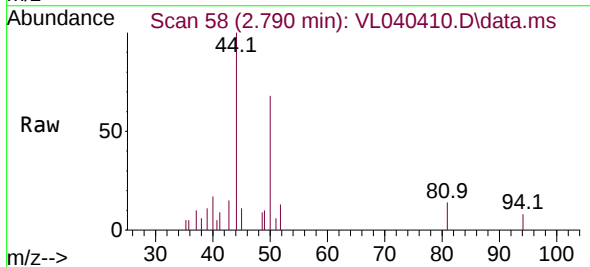
Instrument :
MSVOA_L
ClientSampleId :
SV-01-20230510DL

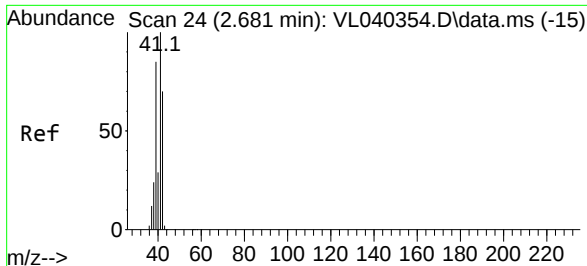
Tgt Ion: 51 Resp: 4992
Ion Ratio Lower Upper
51 100
67 11.5 15.5 23.3#



#4
Chloromethane
Concen: 0.032 ppbv
RT: 2.790 min Scan# 58
Delta R.T. -0.010 min
Lab File: VL040410.D
Acq: 11 May 2023 21:20

Tgt Ion: 50 Resp: 3082
Ion Ratio Lower Upper
50 100
52 19.2 25.3 37.9#

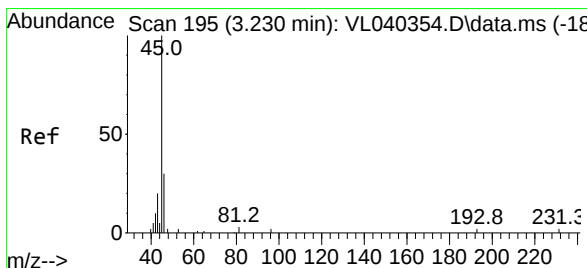
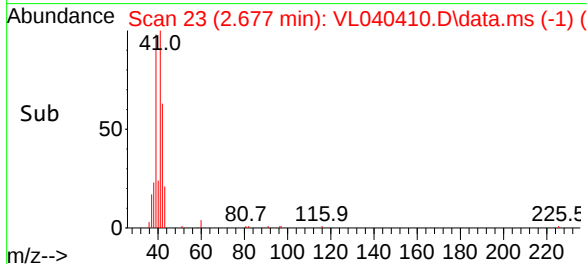
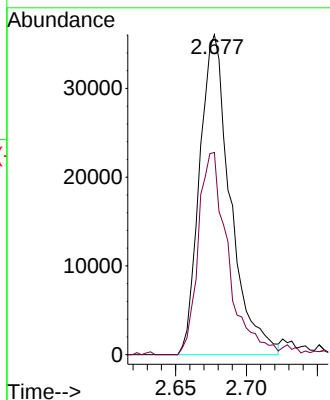
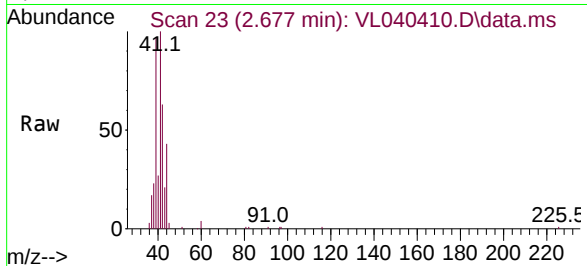




#9
Propene
Concen: 0.917 ppbv
RT: 2.677 min Scan# 21
Delta R.T. -0.004 min
Lab File: VL040410.D
Acq: 11 May 2023 21:20

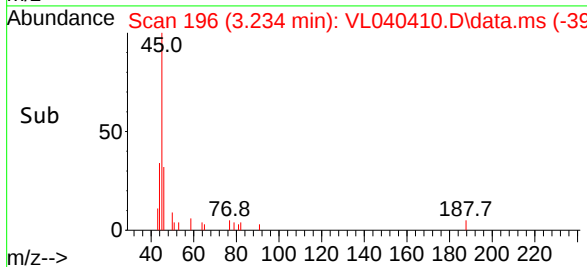
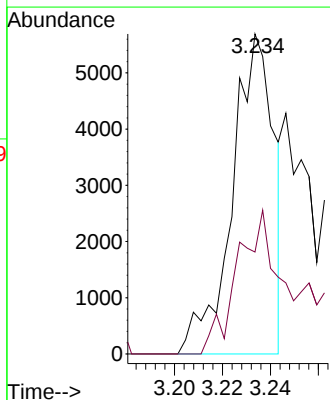
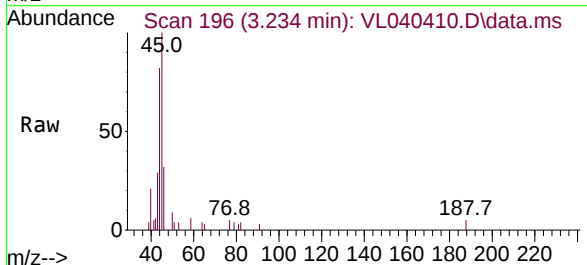
Instrument :
MSVOA_L
ClientSampleId :
SV-01-20230510DL

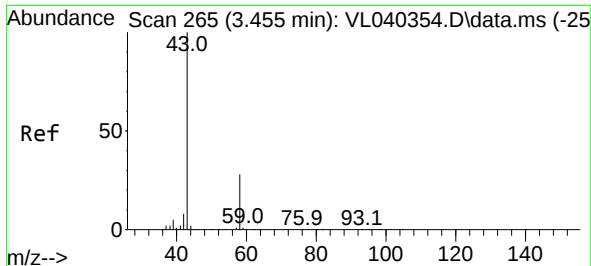
Tgt Ion: 41 Resp: 54408
Ion Ratio Lower Upper
41 100
42 63.2 56.5 84.7



#13
Ethanol
Concen: 1.383 ppbv
RT: 3.234 min Scan# 196
Delta R.T. 0.004 min
Lab File: VL040410.D
Acq: 11 May 2023 21:20

Tgt Ion: 45 Resp: 6855
Ion Ratio Lower Upper
45 100
46 75.5 15.3 61.3#

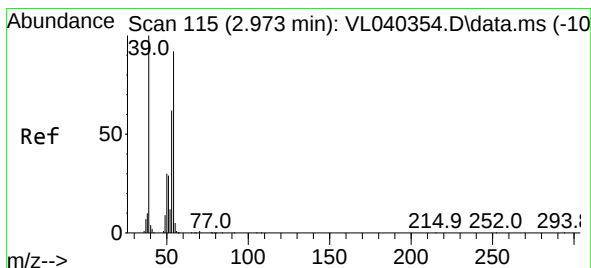
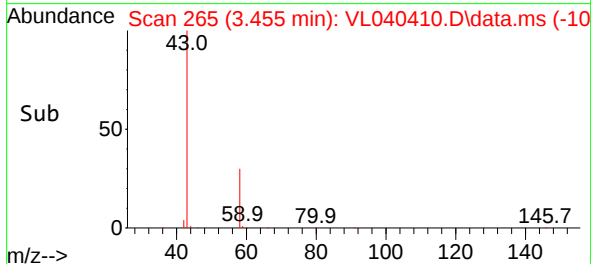
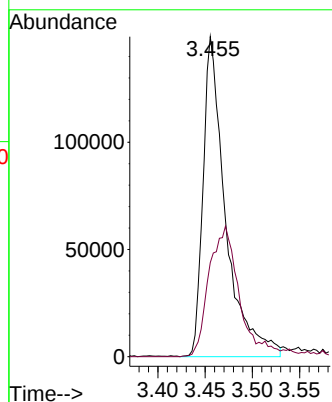
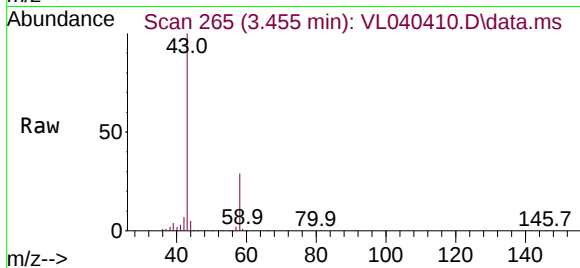




#15
Acetone
Concen: 1.517 ppbv
RT: 3.455 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL040410.D
Acq: 11 May 2023 21:20

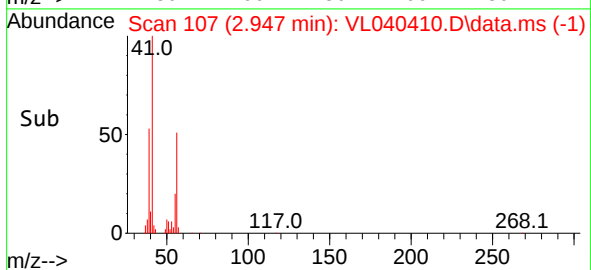
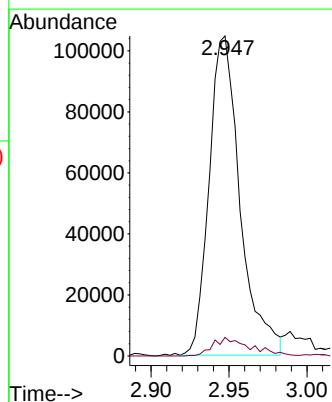
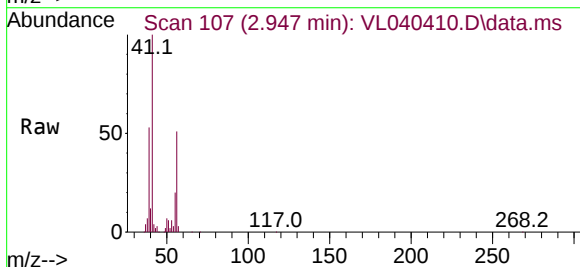
Instrument :
MSVOA_L
ClientSampleId :
SV-01-20230510DL

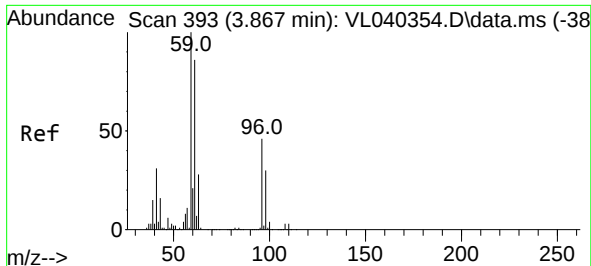
Tgt Ion: 43 Resp: 247104
Ion Ratio Lower Upper
43 100
58 57.8 22.2 33.2#



#16
1,3-Butadiene
Concen: 2.147 ppbv
RT: 2.947 min Scan# 107
Delta R.T. -0.026 min
Lab File: VL040410.D
Acq: 11 May 2023 21:20

Tgt Ion: 39 Resp: 144685
Ion Ratio Lower Upper
39 100
54 7.3 68.8 103.2#





#17

tert-Butyl alcohol

Concen: 0.147 ppbv

RT: 3.883 min Scan# 393

Delta R.T. 0.016 min

Lab File: VL040410.D

Acq: 11 May 2023 21:20

Instrument :

MSVOA_L

ClientSampleId :

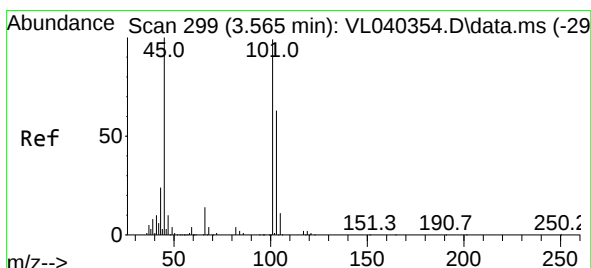
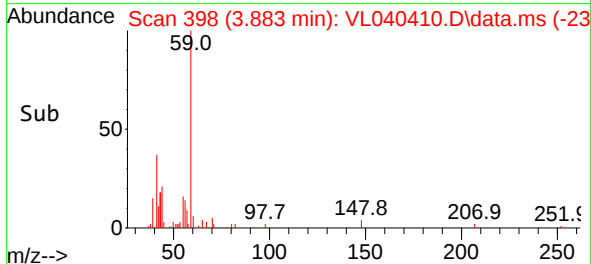
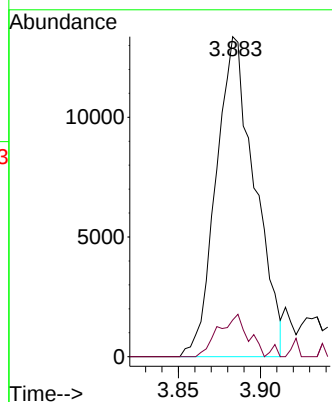
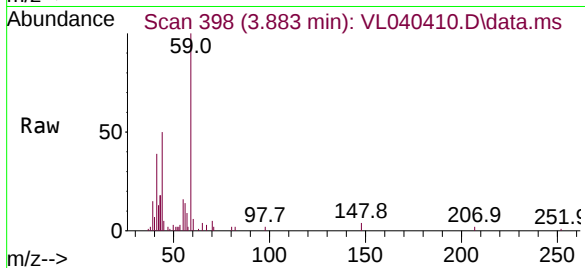
SV-01-20230510DL

Tgt Ion: 59 Resp: 21916

Ion Ratio Lower Upper

59 100

57 11.6 8.5 12.7



#19

Isopropyl Alcohol

Concen: 0.039 ppbv

RT: 3.574 min Scan# 302

Delta R.T. 0.009 min

Lab File: VL040410.D

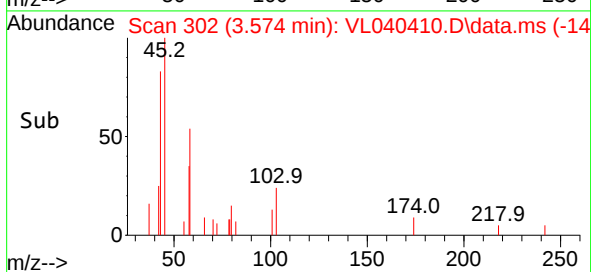
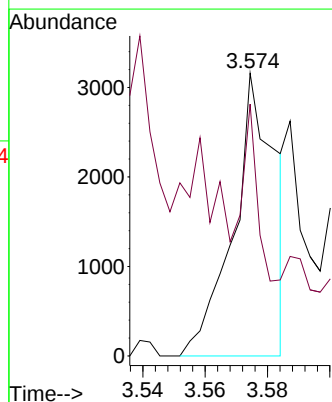
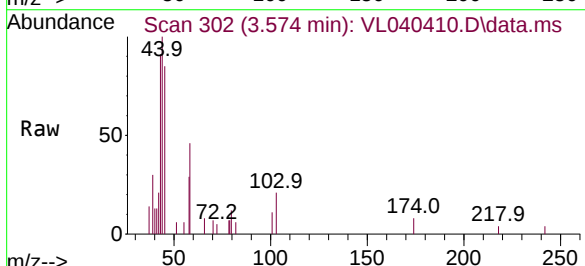
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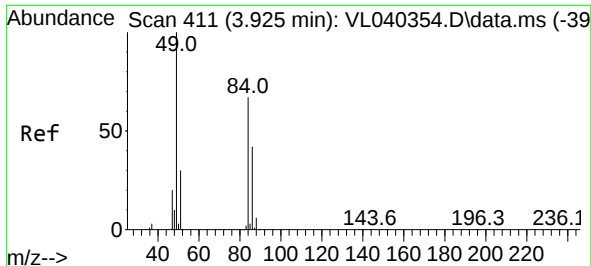
Tgt Ion: 45 Resp: 2882

Ion Ratio Lower Upper

45 100

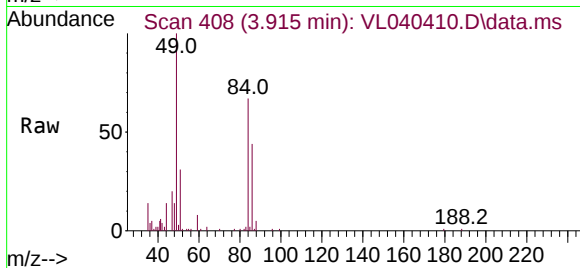
58 0.0 2.6 4.0#



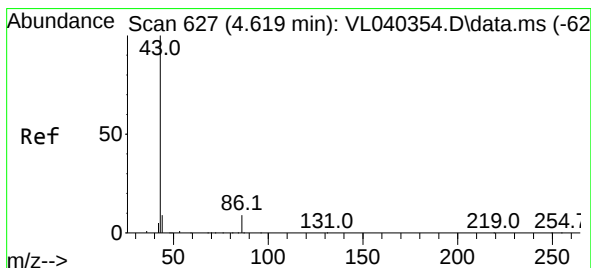
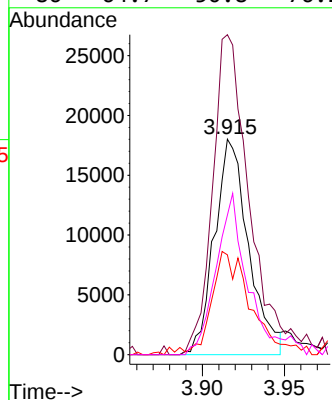
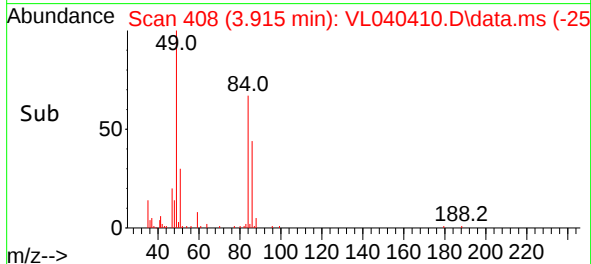


#20
Methylene Chloride
Concen: 0.400 ppbv
RT: 3.915 min Scan# 408
Delta R.T. -0.010 min
Lab File: VL040410.D
Acq: 11 May 2023 21:20

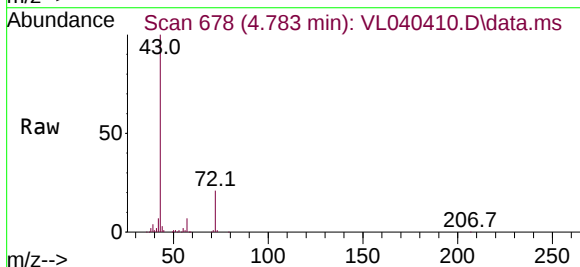
Instrument :
MSVOA_L
ClientSampleId :
SV-01-20230510DL



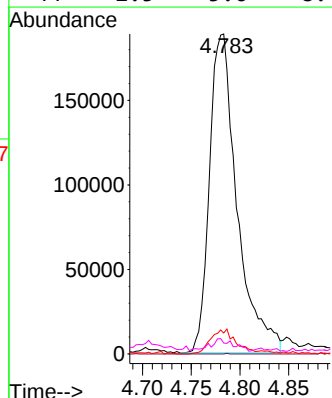
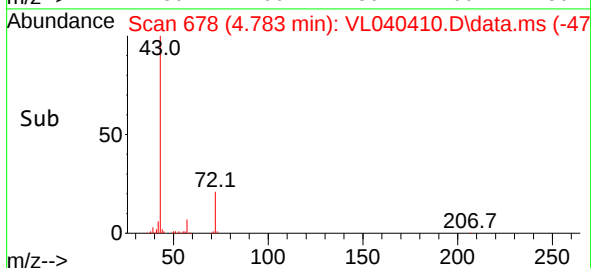
Tgt Ion: 84	Resp: 26035		
Ion	Ratio	Lower	Upper
84	100		
49	148.5	120.1	180.1
51	43.0	36.3	54.5
86	64.7	50.8	76.2

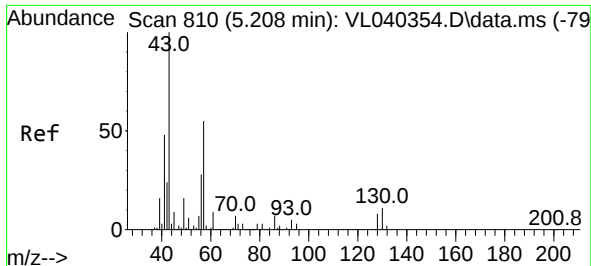


#23
Vinyl Acetate
Concen: 8.970 ppbv
RT: 4.783 min Scan# 678
Delta R.T. 0.164 min
Lab File: VL040410.D
Acq: 11 May 2023 21:20



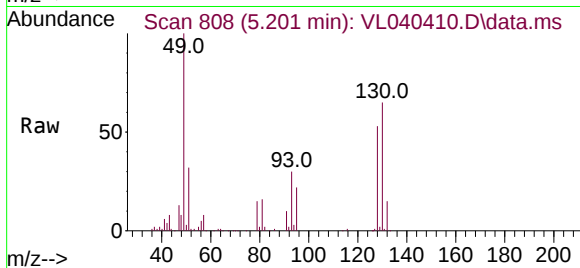
Tgt	Ion: 43	Resp:	371925
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.0	9.0#
42	6.6	6.4	9.6
44	2.5	5.6	8.4#



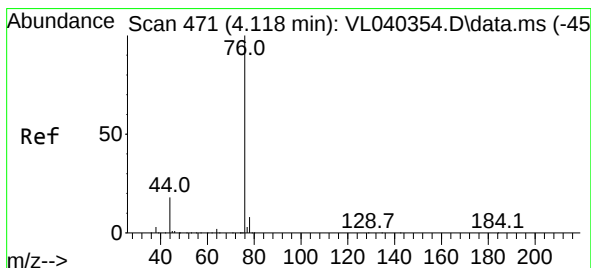
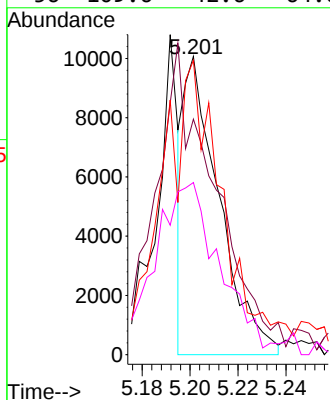
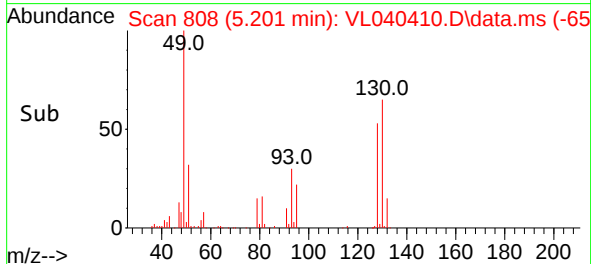


#26
Hexane
Concen: 0.090 ppbv
RT: 5.201 min Scan# 810
Delta R.T. -0.007 min
Lab File: VL040410.D
Acq: 11 May 2023 21:20

Instrument :
MSVOA_L
ClientSampleId :
SV-01-20230510DL

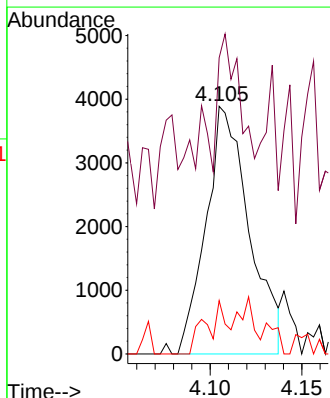
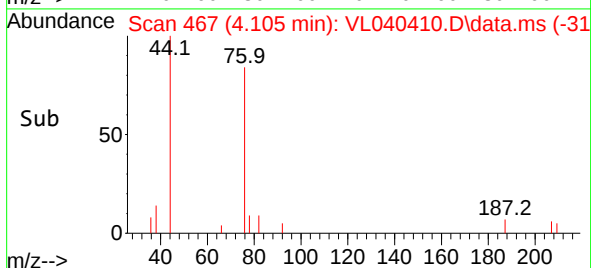
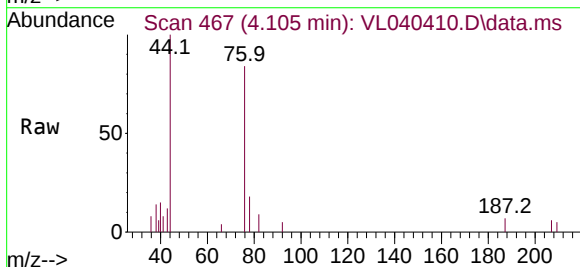


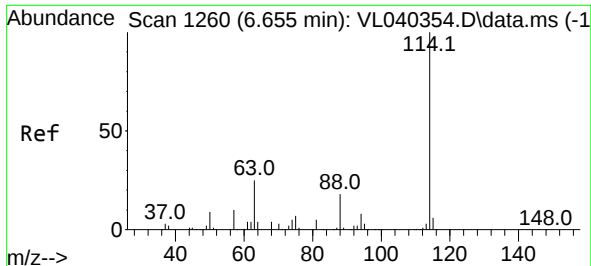
Tgt Ion: 57 Resp: 10364
Ion Ratio Lower Upper
57 100
41 0.0 74.8 112.2#
43 190.7 192.7 289.1#
56 109.6 42.6 64.0#



#27
Carbon Disulfide
Concen: 0.043 ppbv
RT: 4.105 min Scan# 467
Delta R.T. -0.013 min
Lab File: VL040410.D
Acq: 11 May 2023 21:20

Tgt Ion: 76 Resp: 6369
Ion Ratio Lower Upper
76 100
44 75.6 14.7 22.1#
78 25.5 7.7 11.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.642 min Scan# 11

Delta R.T. -0.013 min

Lab File: VL040410.D

Acq: 11 May 2023 21:20

Instrument :

MSVOA_L

ClientSampleId :

SV-01-20230510DL

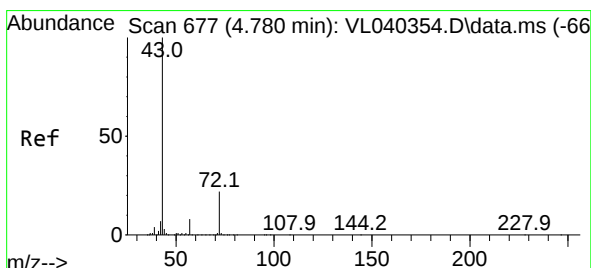
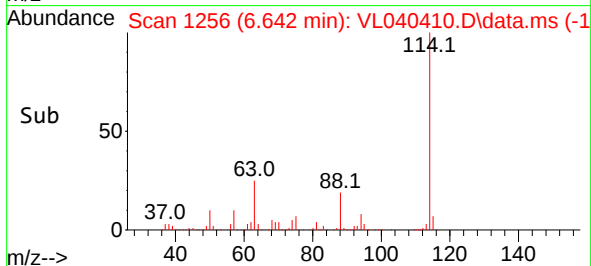
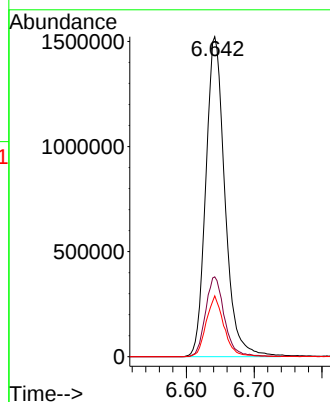
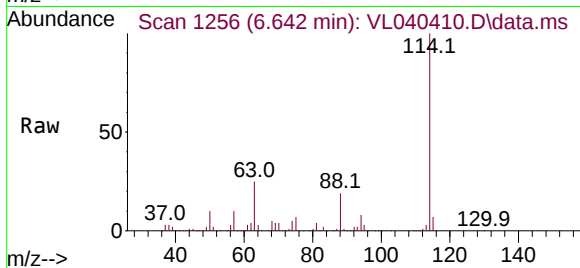
Tgt Ion:114 Resp: 2981017

Ion Ratio Lower Upper

114 100

63 24.8 21.4 32.0

88 17.8 14.6 22.0



#34

2-Butanone

Concen: 2.314 ppbv

RT: 4.783 min Scan# 678

Delta R.T. 0.003 min

Lab File: VL040410.D

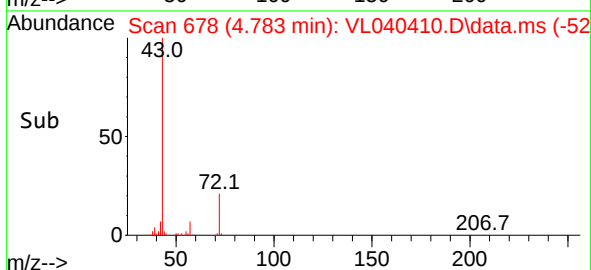
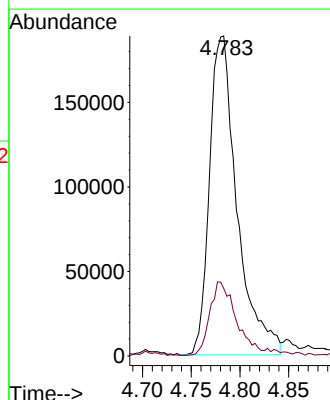
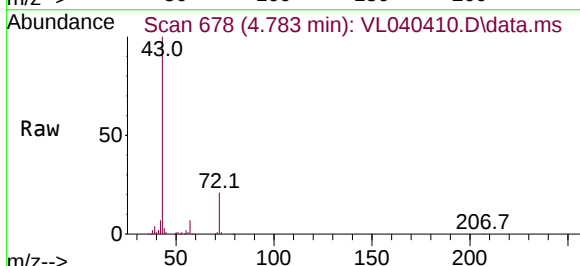
Acq: 11 May 2023 21:20

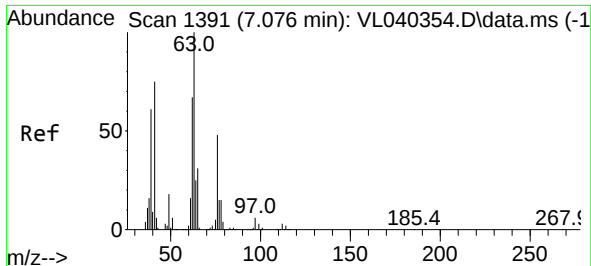
Tgt Ion: 43 Resp: 371925

Ion Ratio Lower Upper

43 100

72 24.6 18.4 27.6





#39

1,2-Dichloropropane

Concen: 7.639 ppbv

RT: 6.642 min Scan# 11

Delta R.T. -0.434 min

Lab File: VL040410.D

Acq: 11 May 2023 21:20

Instrument :

MSVOA_L

ClientSampleId :

SV-01-20230510DL

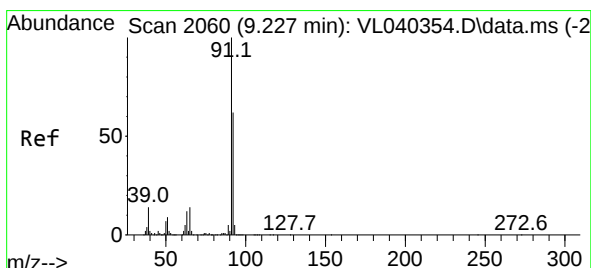
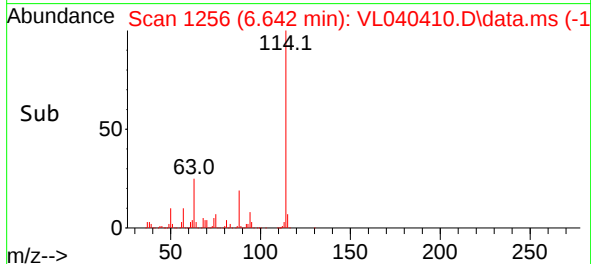
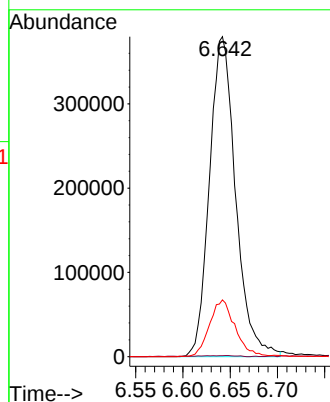
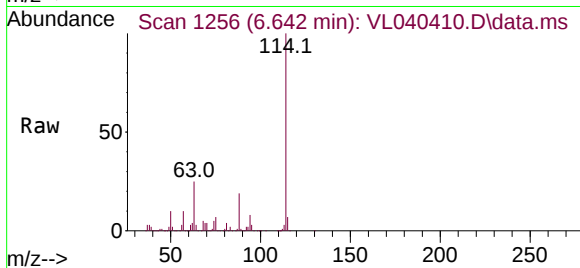
Tgt Ion: 63 Resp: 731059

Ion Ratio Lower Upper

63 100

41 0.3 59.6 89.4#

62 17.5 53.9 80.9#



#53

Toluene

Concen: 0.053 ppbv

RT: 9.214 min Scan# 2056

Delta R.T. -0.013 min

Lab File: VL040410.D

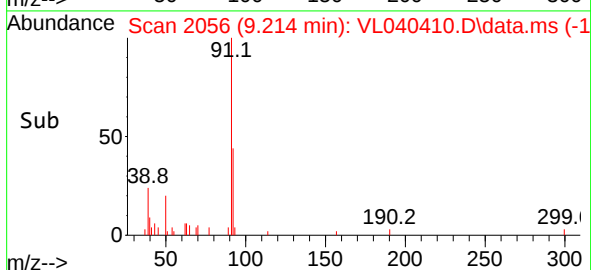
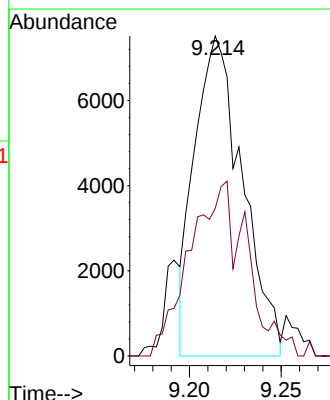
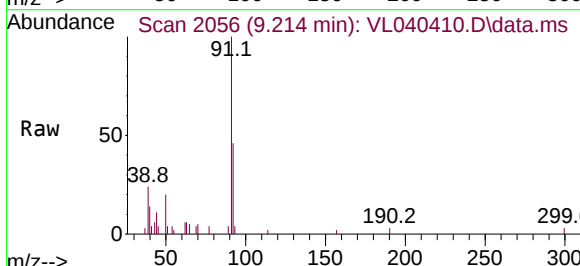
Acq: 11 May 2023 21:20

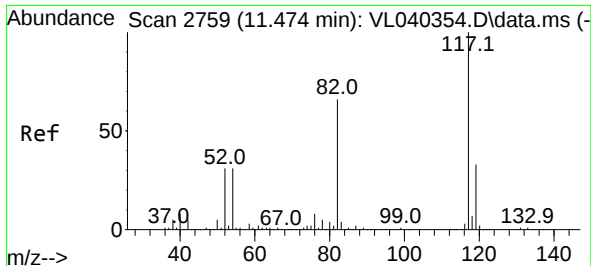
Tgt Ion: 91 Resp: 13620

Ion Ratio Lower Upper

91 100

92 65.7 48.9 73.3

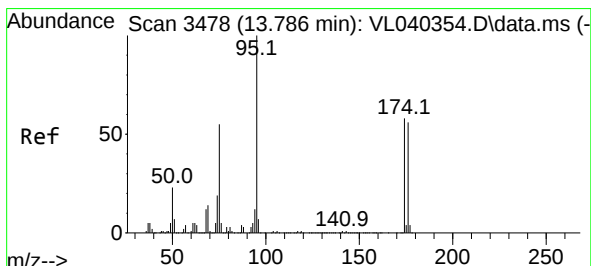
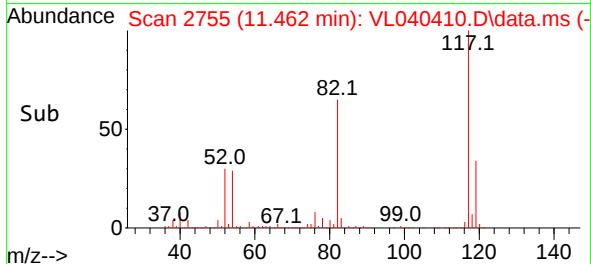
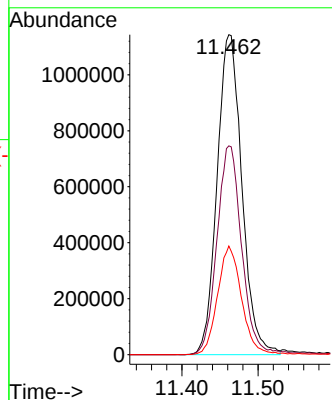
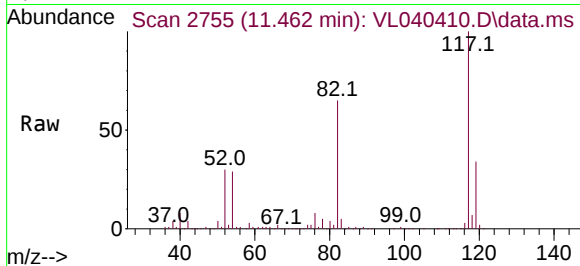




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.462 min Scan# 21
Delta R.T. -0.012 min
Lab File: VL040410.D
Acq: 11 May 2023 21:20

Instrument :
MSVOA_L
ClientSampleId :
SV-01-20230510DL

Tgt Ion:117 Resp: 2592210
Ion Ratio Lower Upper
117 100
82 65.5 52.5 78.7
119 33.2 24.3 36.5



#68
1-Bromo-4-Fluorobenzene
Concen: 9.426 ppbv
RT: 13.773 min Scan# 3474
Delta R.T. -0.013 min
Lab File: VL040410.D
Acq: 11 May 2023 21:20

Tgt Ion: 95 Resp: 2020488
Ion Ratio Lower Upper
95 100
174 61.8 47.2 70.8
175 4.3 3.5 5.3

