

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041923\
 Data File : VL040385.D
 Acq On : 19 Apr 2023 18:32
 Operator : SY/MD
 Sample : 02332-07DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-15-20230413DL

Quant Time: Apr 20 05:12:47 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)

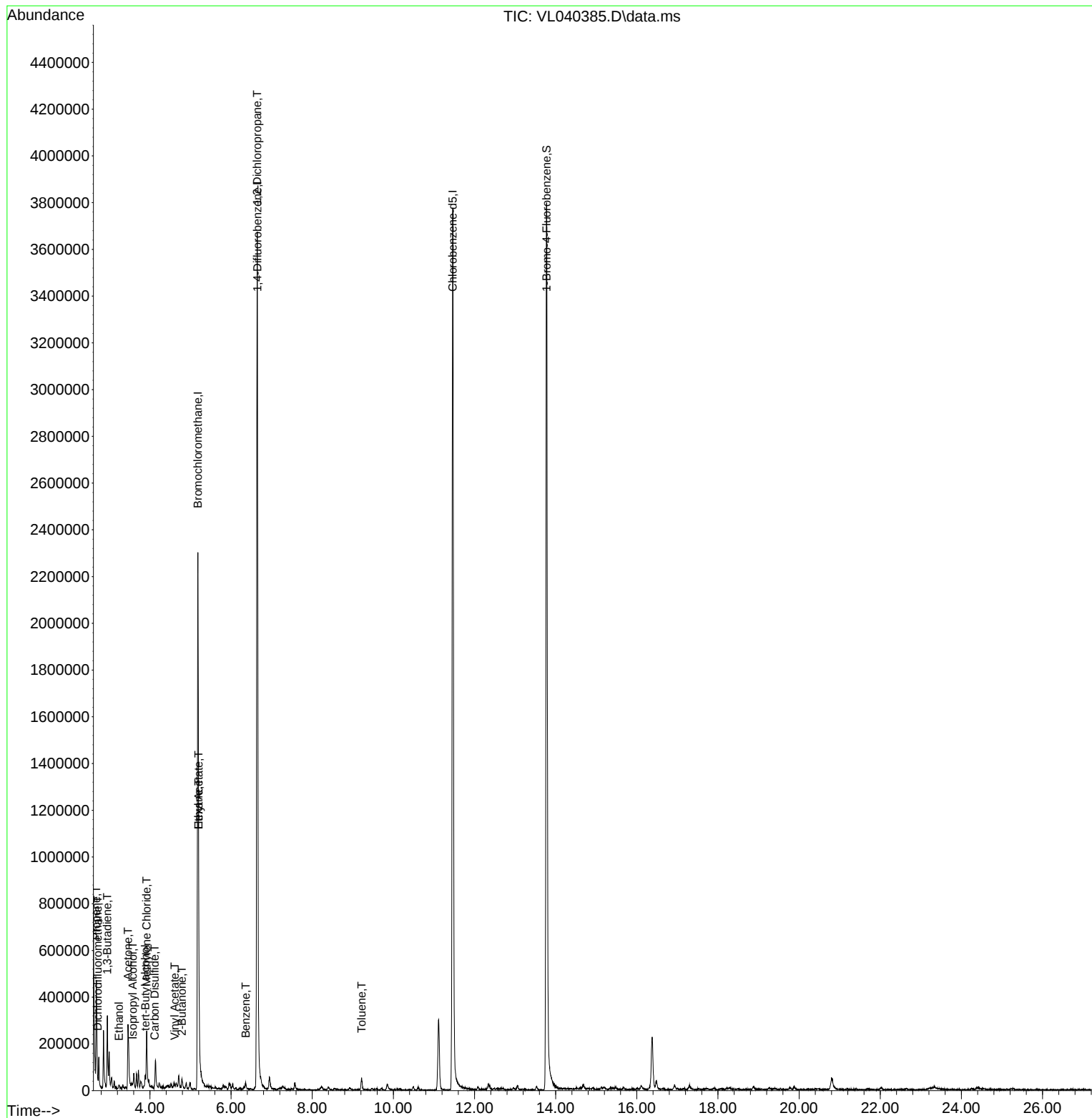
Internal Standards						
1) Bromochloromethane	5.182	49	1078231	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	2790469	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	2465676	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	1971631	9.670	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.710	85	8203	0.042	ppbv	94
9) Propene	2.677	41	159194	2.860	ppbv	96
13) Ethanol	3.234	45	12885	2.773	ppbv	70
15) Acetone	3.459	43	288316	1.888	ppbv #	78
16) 1,3-Butadiene	2.947	39	91666	1.450	ppbv #	29
17) tert-Butyl alcohol	3.886	59	29342	0.209	ppbv #	88
19) Isopropyl Alcohol	3.578	45	7380	0.106	ppbv #	90
20) Methylene Chloride	3.922	84	78325	1.285	ppbv	97
23) Vinyl Acetate	4.610	43	2244	0.058	ppbv #	52
25) Ethyl Acetate	5.201	43	75518	0.294	ppbv #	77
26) Hexane	5.201	57	106547	0.984	ppbv #	37
27) Carbon Disulfide	4.115	76	7198	0.051	ppbv #	26
34) 2-Butanone	4.787	43	22393	0.149	ppbv #	39
36) Benzene	6.362	78	14171	0.062	ppbv #	93
39) 1,2-Dichloropropane	6.642	63	694784	7.756	ppbv #	24
53) Toluene	9.217	91	35894	0.149	ppbv	95

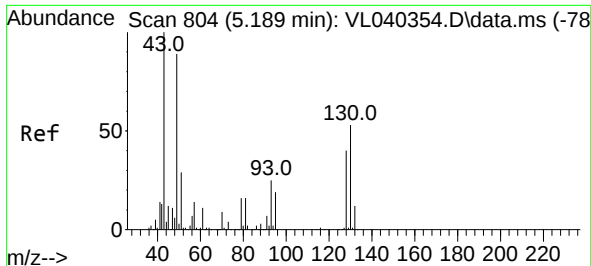
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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SV-15-20230413DL

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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
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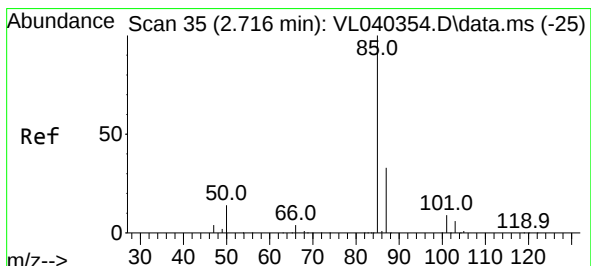
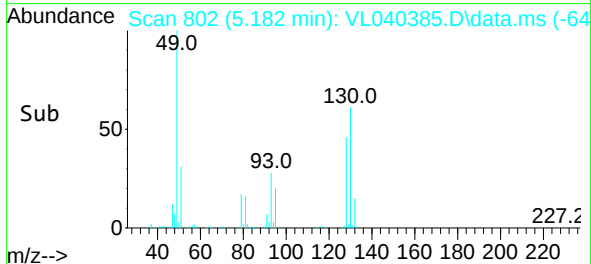
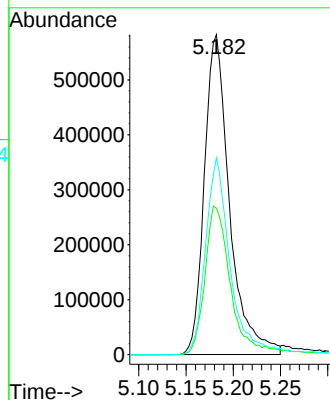
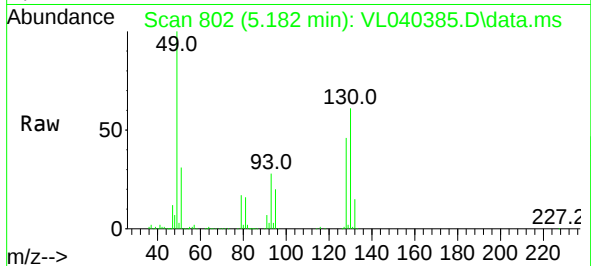




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.182 min Scan# 80
Delta R.T. -0.007 min
Lab File: VL040385.D
Acq: 19 Apr 2023 18:32

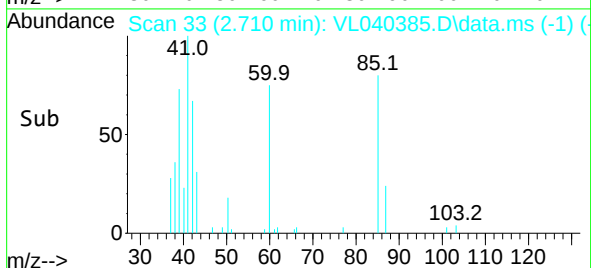
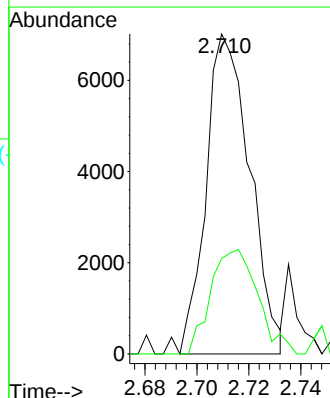
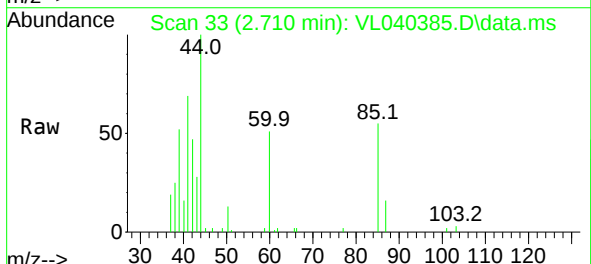
Instrument :
MSVOA_L
ClientSampleId :
SV-15-20230413DL

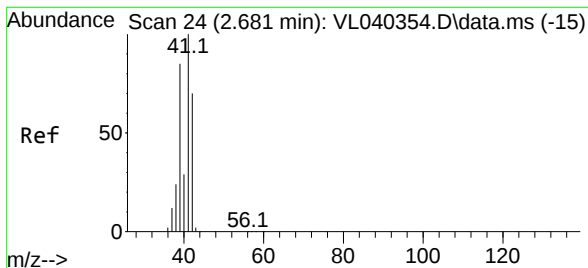
Tgt Ion: 49 Resp: 1078231
Ion Ratio Lower Upper
49 100
128 48.9 23.7 71.1
130 61.9 29.9 89.8



#2
Dichlorodifluoromethane
Concen: 0.042 ppbv
RT: 2.710 min Scan# 33
Delta R.T. -0.006 min
Lab File: VL040385.D
Acq: 19 Apr 2023 18:32

Tgt Ion: 85 Resp: 8203
Ion Ratio Lower Upper
85 100
87 29.8 26.6 40.0





#9

Propene

Concen: 2.860 ppbv

RT: 2.677 min Scan# 21

Delta R.T. -0.004 min

Lab File: VL040385.D

Acq: 19 Apr 2023 18:32

Instrument :

MSVOA_L

ClientSampleId :

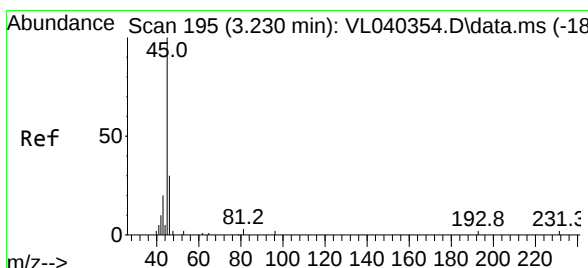
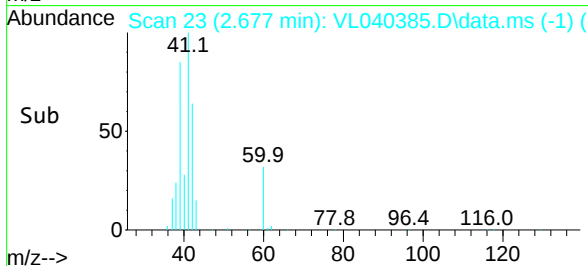
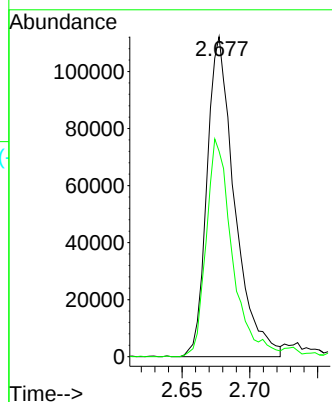
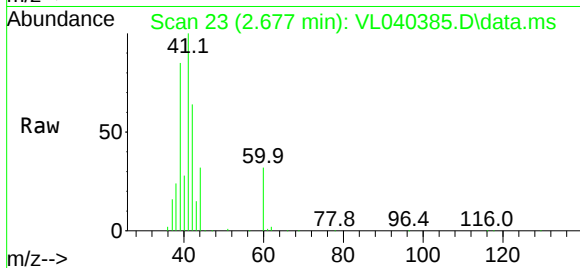
SV-15-20230413DL

Tgt Ion: 41 Resp: 159194

Ion Ratio Lower Upper

41 100

42 67.2 56.5 84.7



#13

Ethanol

Concen: 2.773 ppbv

RT: 3.234 min Scan# 196

Delta R.T. 0.004 min

Lab File: VL040385.D

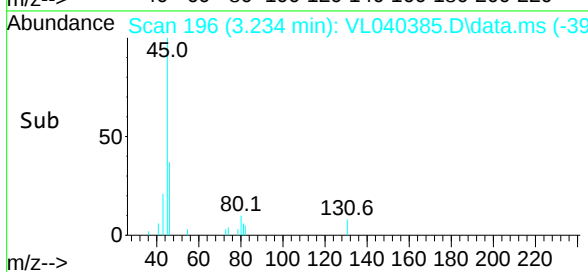
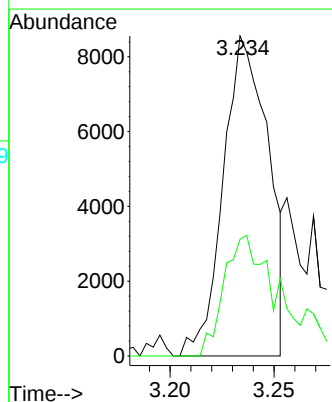
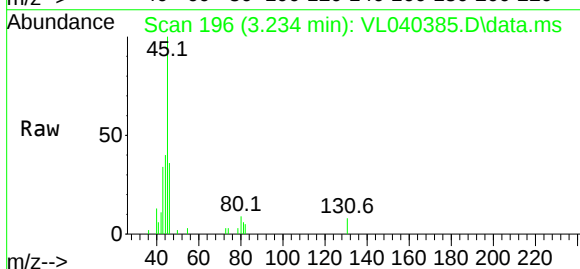
Acq: 19 Apr 2023 18:32

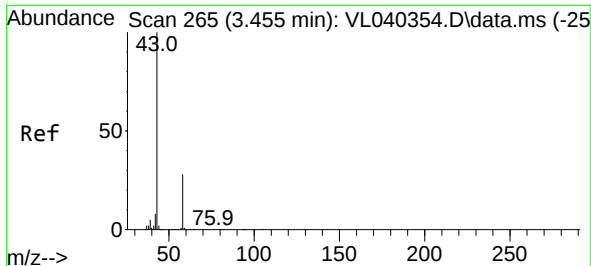
Tgt Ion: 45 Resp: 12885

Ion Ratio Lower Upper

45 100

46 56.6 15.3 61.3





#15

Acetone

Concen: 1.888 ppbv

RT: 3.459 min Scan# 2

Delta R.T. 0.004 min

Lab File: VL040385.D

Acq: 19 Apr 2023 18:32

Instrument :

MSVOA_L

ClientSampleId :

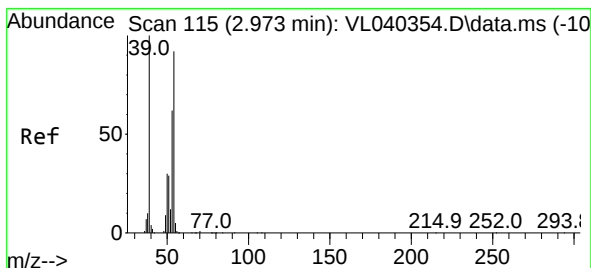
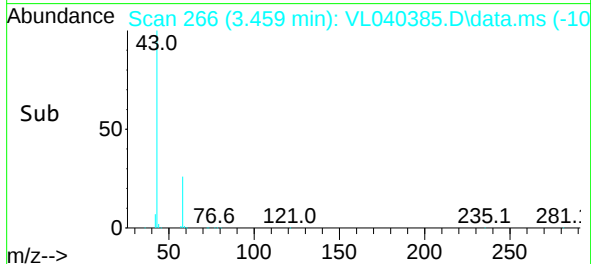
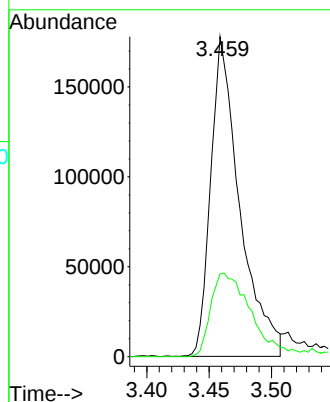
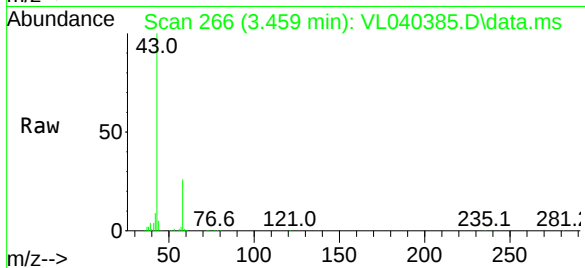
SV-15-20230413DL

Tgt Ion: 43 Resp: 288316

Ion Ratio Lower Upper

43 100

58 39.4 22.2 33.2#



#16

1,3-Butadiene

Concen: 1.450 ppbv

RT: 2.947 min Scan# 107

Delta R.T. -0.026 min

Lab File: VL040385.D

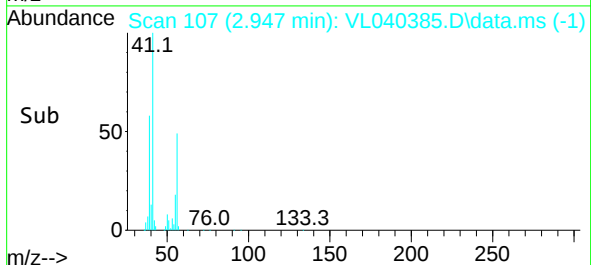
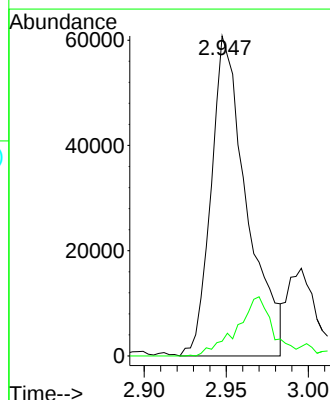
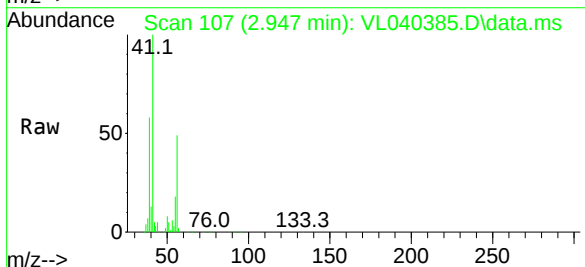
Acq: 19 Apr 2023 18:32

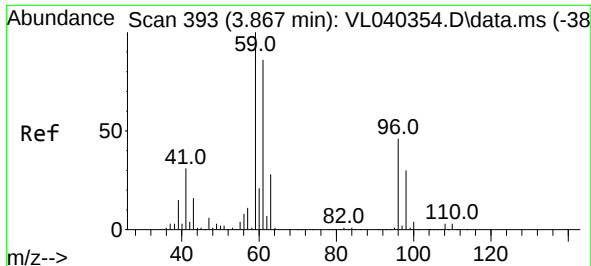
Tgt Ion: 39 Resp: 91666

Ion Ratio Lower Upper

39 100

54 20.4 68.8 103.2#





#17

tert-Butyl alcohol

Concen: 0.209 ppbv

RT: 3.886 min Scan# 30

Delta R.T. 0.019 min

Lab File: VL040385.D

Acq: 19 Apr 2023 18:32

Instrument :

MSVOA_L

ClientSampleId :

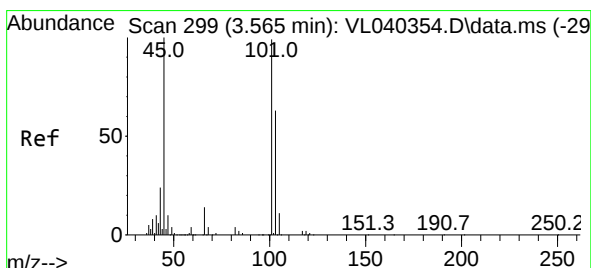
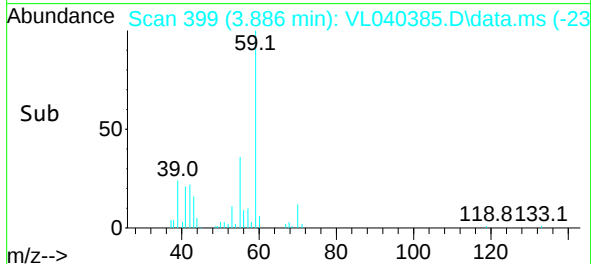
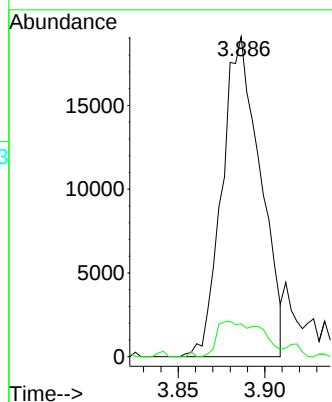
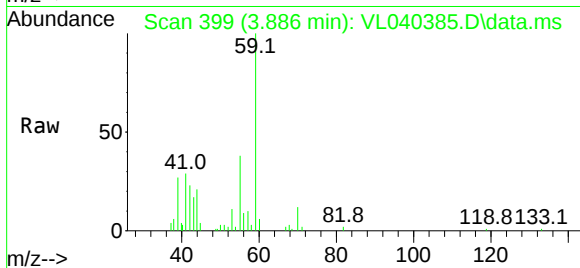
SV-15-20230413DL

Tgt Ion: 59 Resp: 29342

Ion Ratio Lower Upper

59 100

57 15.1 8.5 12.7#



#19

Isopropyl Alcohol

Concen: 0.106 ppbv

RT: 3.578 min Scan# 303

Delta R.T. 0.013 min

Lab File: VL040385.D

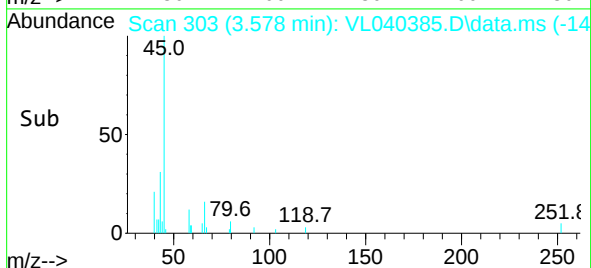
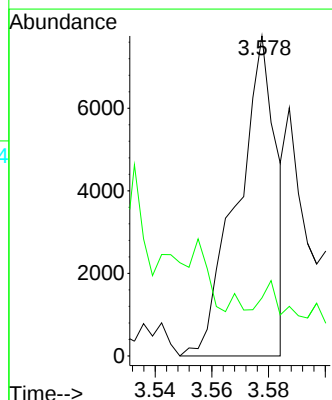
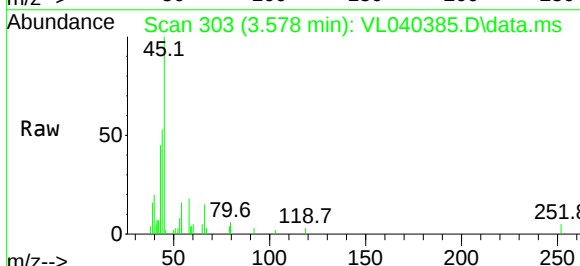
Acq: 19 Apr 2023 18:32

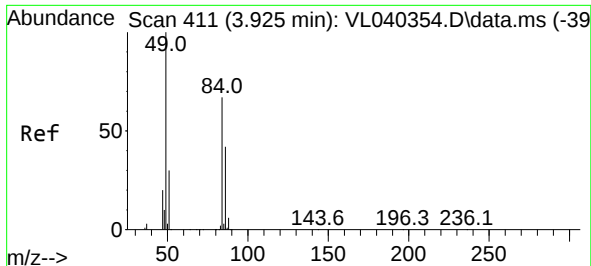
Tgt Ion: 45 Resp: 7380

Ion Ratio Lower Upper

45 100

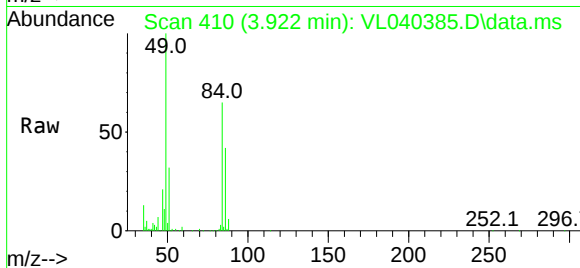
58 0.0 2.6 4.0#



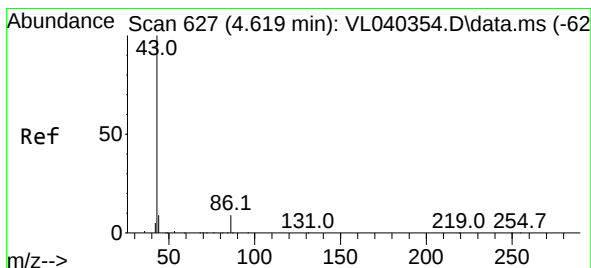
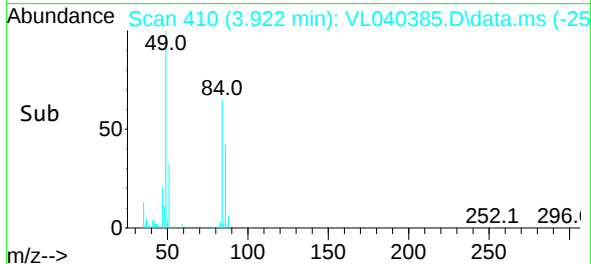
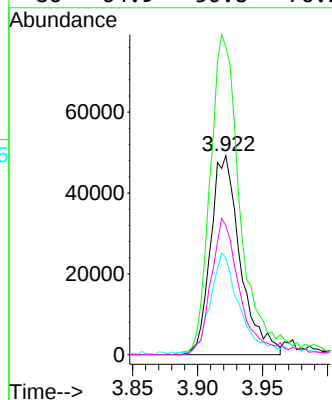


#20
Methylene Chloride
Concen: 1.285 ppbv
RT: 3.922 min Scan# 411
Delta R.T. -0.003 min
Lab File: VL040385.D
Acq: 19 Apr 2023 18:32

Instrument :
MSVOA_1
ClientSampleId :
SV-15-20230413DL

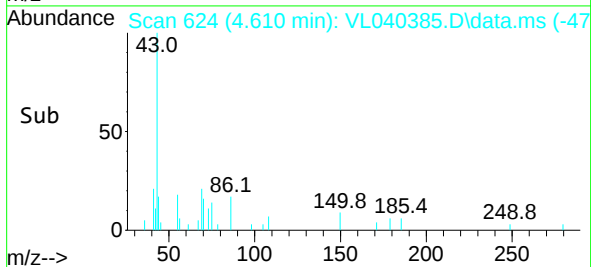
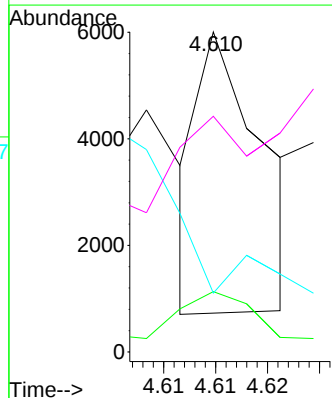
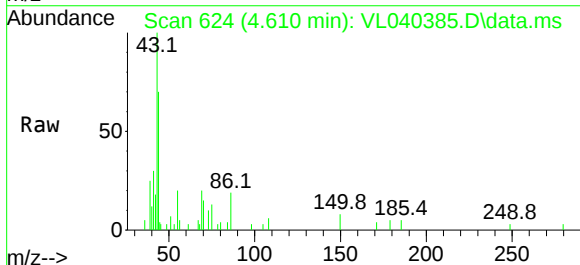


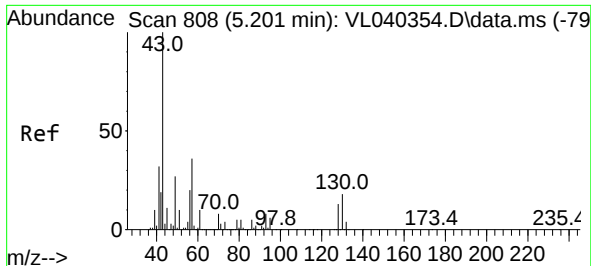
Tgt Ion: 84	Resp: 78325
Ion Ratio	Lower Upper
84 100	
49 153.8	120.1 180.1
51 47.5	36.3 54.5
86 64.9	50.8 76.2



#23
Vinyl Acetate
Concen: 0.058 ppbv
RT: 4.610 min Scan# 624
Delta R.T. -0.009 min
Lab File: VL040385.D
Acq: 19 Apr 2023 18:32

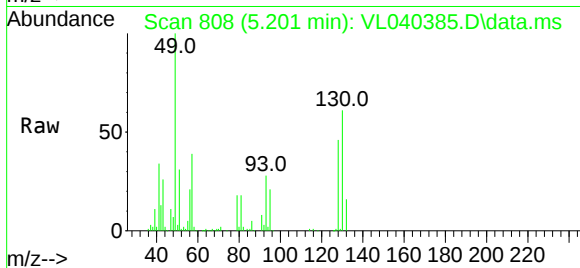
Tgt Ion: 43	Resp: 2244
Ion Ratio	Lower Upper
43 100	
86 34.3	6.0 9.0#
42 0.0	6.4 9.6#
44 23.4	5.6 8.4#



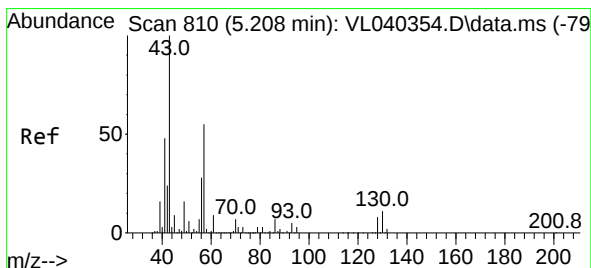
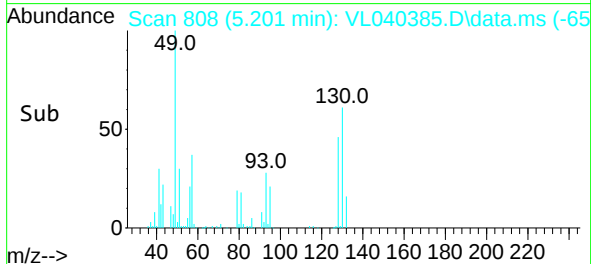
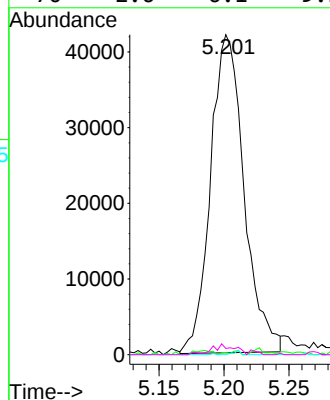


#25
Ethyl Acetate
Concen: 0.294 ppbv
RT: 5.201 min Scan# 808
Delta R.T. 0.000 min
Lab File: VL040385.D
Acq: 19 Apr 2023 18:32

Instrument :
MSVOA_L
ClientSampleId :
SV-15-20230413DL

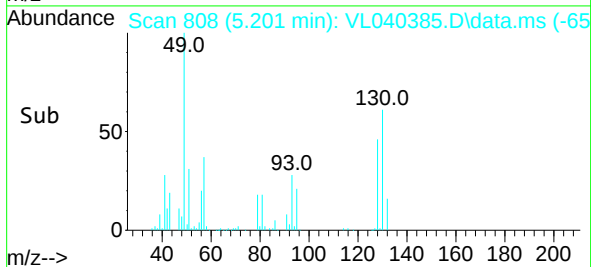
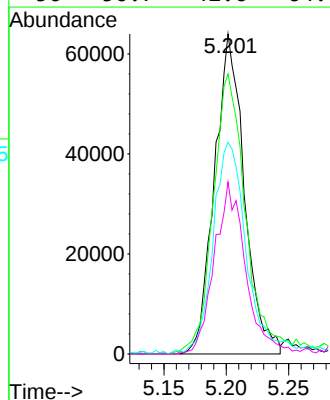
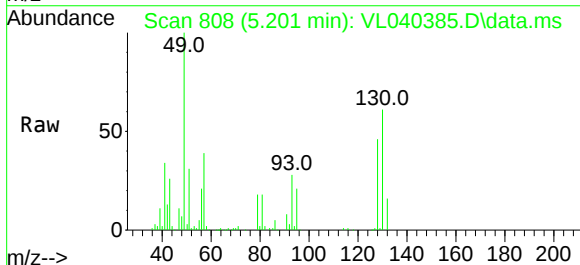


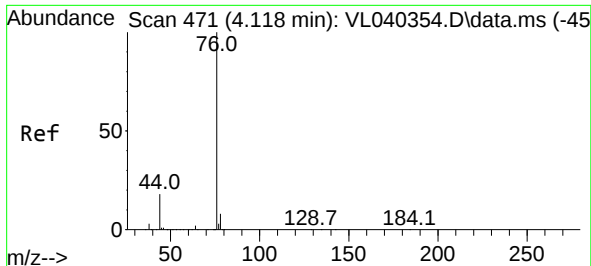
Tgt Ion: 43	Resp: 75518
Ion Ratio	Lower Upper
43 100	
45 1.1	8.5 12.7#
61 0.3	8.5 12.7#
70 2.6	6.1 9.1#



#26
Hexane
Concen: 0.984 ppbv
RT: 5.201 min Scan# 808
Delta R.T. -0.007 min
Lab File: VL040385.D
Acq: 19 Apr 2023 18:32

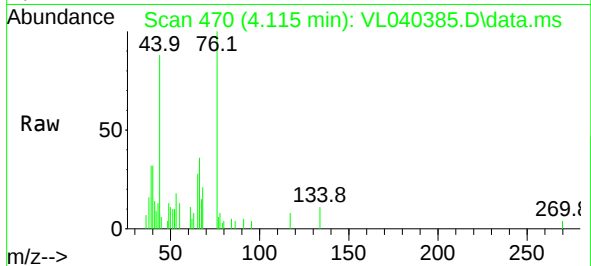
Tgt	Ion: 57	Resp:	106547
Ion	Ratio	Lower	Upper
57	100		
41	99.1	74.8	112.2
43	74.7	192.7	289.1#
56	56.7	42.6	64.0



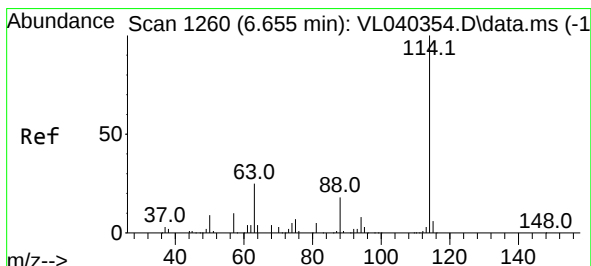
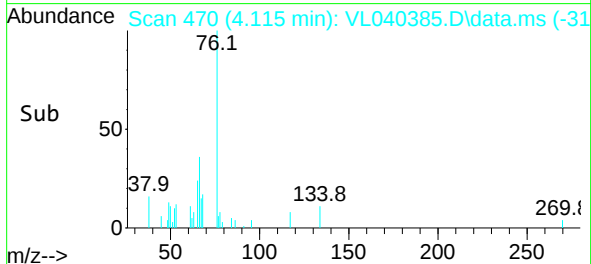
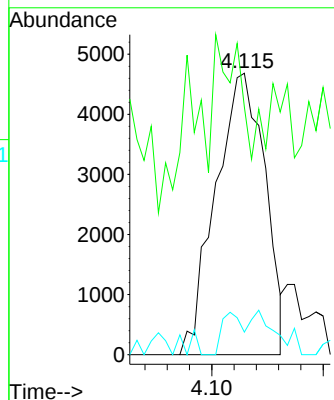


#27
Carbon Disulfide
Concen: 0.051 ppbv
RT: 4.115 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL040385.D
Acq: 19 Apr 2023 18:32

Instrument :
MSVOA_L
ClientSampleId :
SV-15-20230413DL

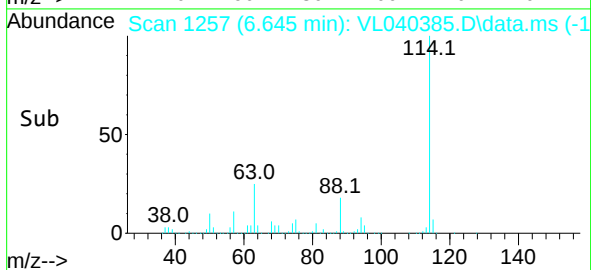
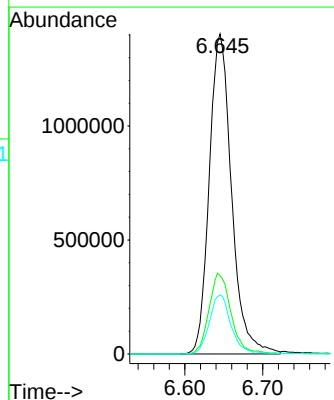
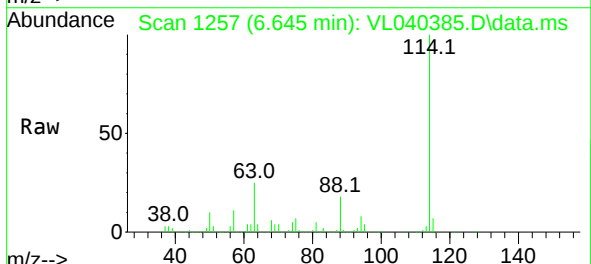


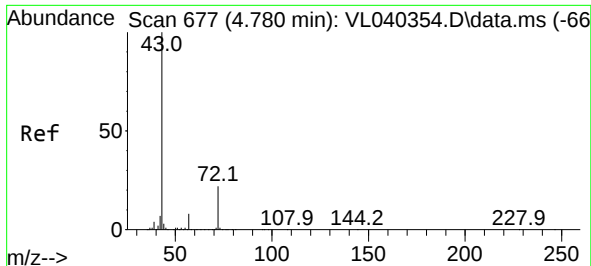
Tgt Ion: 76 Resp: 7198
Ion Ratio Lower Upper
76 100
44 65.7 14.7 22.1#
78 14.5 7.7 11.5#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.645 min Scan# 1257
Delta R.T. -0.010 min
Lab File: VL040385.D
Acq: 19 Apr 2023 18:32

Tgt Ion: 114 Resp: 2790469
Ion Ratio Lower Upper
114 100
63 25.2 21.4 32.0
88 18.1 14.6 22.0





#34

2-Butanone

Concen: 0.149 ppbv

RT: 4.787 min Scan# 61

Delta R.T. 0.007 min

Lab File: VL040385.D

Acq: 19 Apr 2023 18:32

Instrument :

MSVOA_L

ClientSampleId :

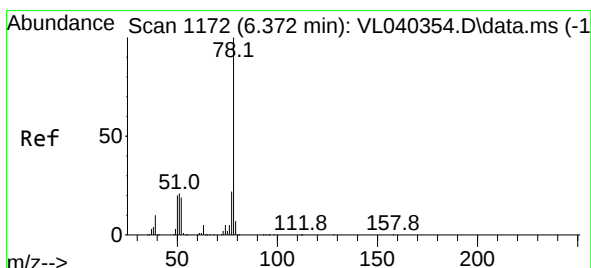
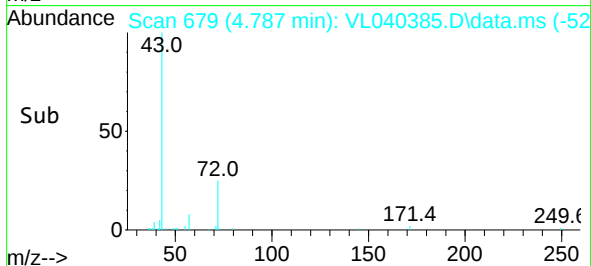
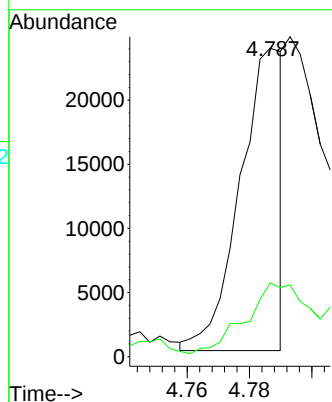
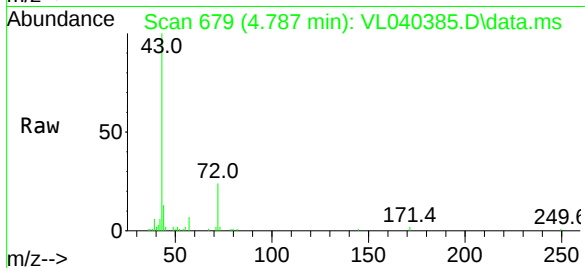
SV-15-20230413DL

Tgt Ion: 43 Resp: 22393

Ion Ratio Lower Upper

43 100

72 52.4 18.4 27.6#



#36

Benzene

Concen: 0.062 ppbv

RT: 6.362 min Scan# 1169

Delta R.T. -0.010 min

Lab File: VL040385.D

Acq: 19 Apr 2023 18:32

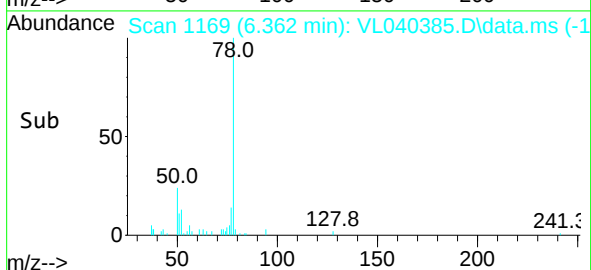
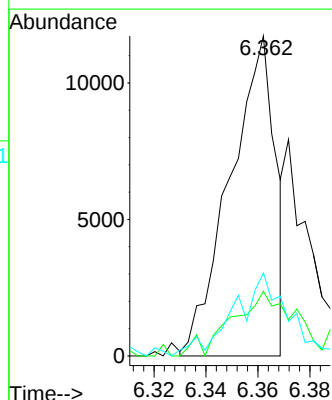
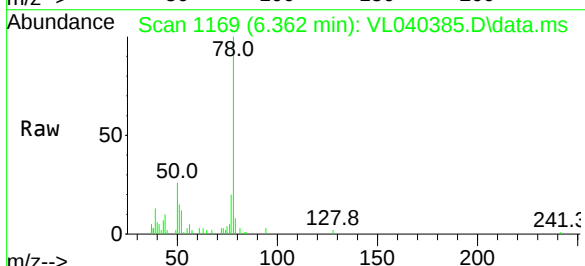
Tgt Ion: 78 Resp: 14171

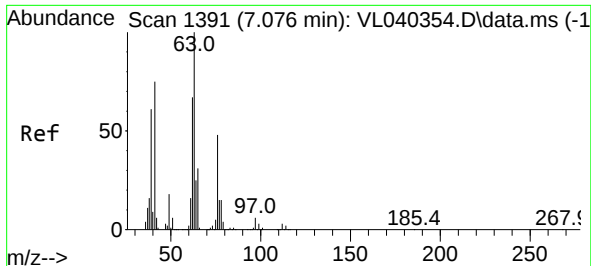
Ion Ratio Lower Upper

78 100

77 20.5 17.8 26.8

50 24.5 15.6 23.4#





#39

1,2-Dichloropropane

Concen: 7.756 ppbv

RT: 6.642 min Scan# 11

Delta R.T. -0.434 min

Lab File: VL040385.D

Acq: 19 Apr 2023 18:32

Instrument :

MSVOA_L

ClientSampleId :

SV-15-20230413DL

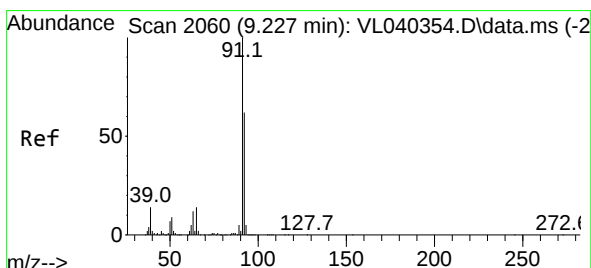
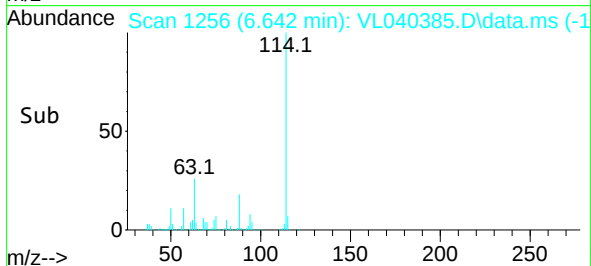
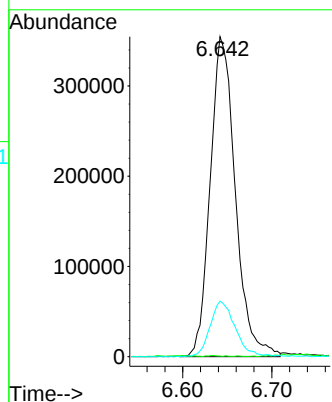
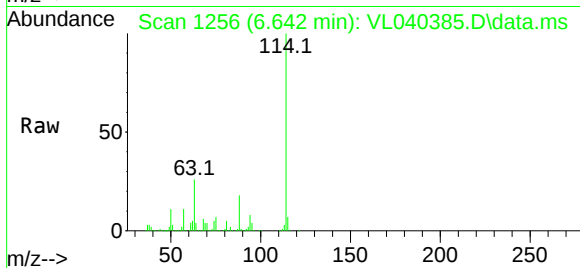
Tgt Ion: 63 Resp: 694784

Ion Ratio Lower Upper

63 100

41 0.0 59.6 89.4#

62 17.3 53.9 80.9#



#53

Toluene

Concen: 0.149 ppbv

RT: 9.217 min Scan# 2057

Delta R.T. -0.010 min

Lab File: VL040385.D

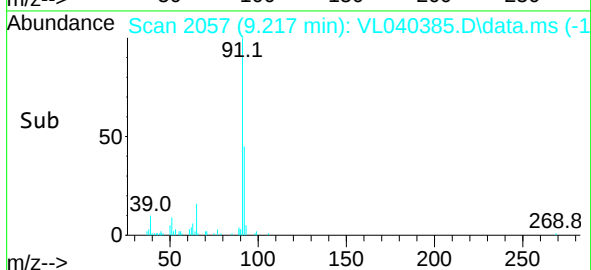
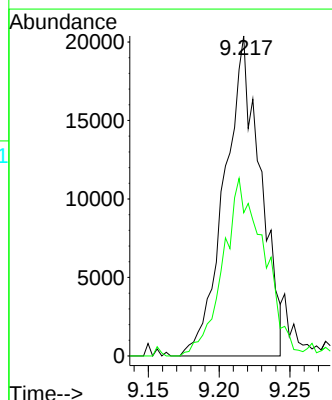
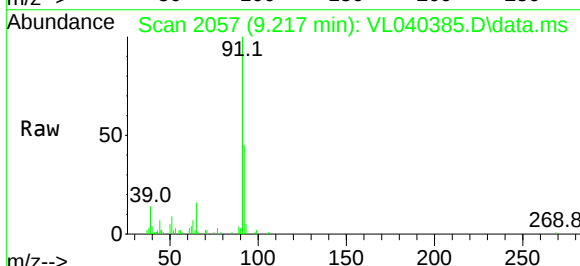
Acq: 19 Apr 2023 18:32

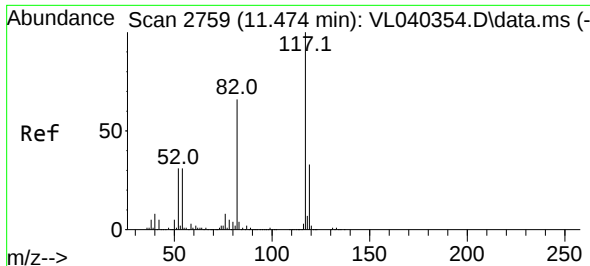
Tgt Ion: 91 Resp: 35894

Ion Ratio Lower Upper

91 100

92 64.7 48.9 73.3

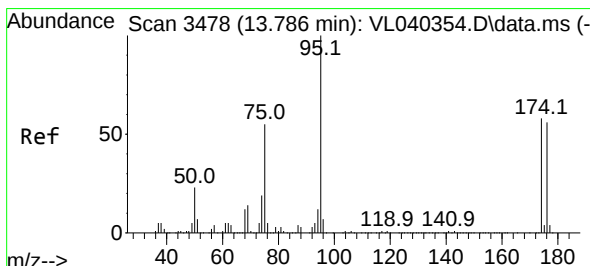
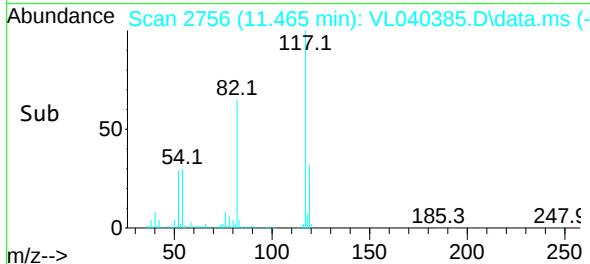
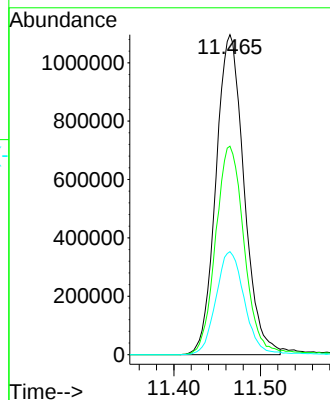
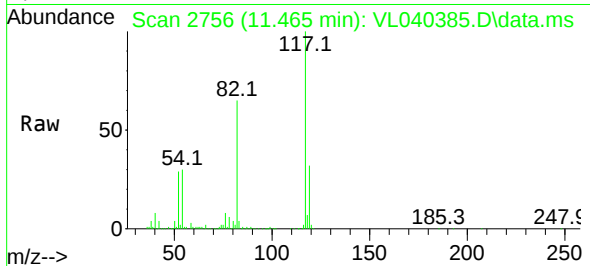




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 21
Delta R.T. -0.009 min
Lab File: VL040385.D
Acq: 19 Apr 2023 18:32

Instrument :
MSVOA_1
ClientSampleId :
SV-15-20230413DL

Tgt Ion:117 Resp: 2465676
Ion Ratio Lower Upper
117 100
82 67.6 52.5 78.7
119 33.0 24.3 36.5



#68
1-Bromo-4-Fluorobenzene
Concen: 9.670 ppbv
RT: 13.773 min Scan# 3474
Delta R.T. -0.013 min
Lab File: VL040385.D
Acq: 19 Apr 2023 18:32

Tgt Ion: 95 Resp: 1971631
Ion Ratio Lower Upper
95 100
174 60.6 47.2 70.8
175 4.2 3.5 5.3

