

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022323\
 Data File : VL040225.D
 Acq On : 24 Feb 2023 8:39
 Operator : SY/MD
 Sample : QC022123 CAN 10605
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC022123 CAN 10605

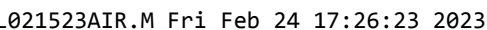
Quant Time: Feb 24 09:20:54 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 22 03:17:31 2023
 Response via : Initial Calibration

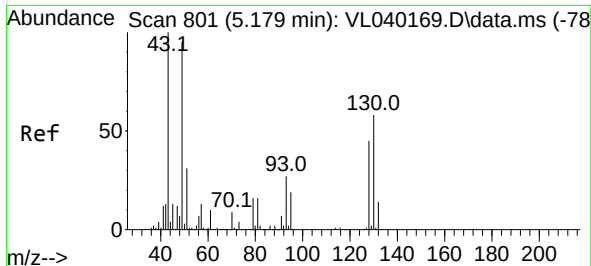
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.176	49	725810	10.000	ppbv	-0.03
33) 1,4-Difluorobenzene	6.636	114	1858153	10.000	ppbv	-0.04
55) Chlorobenzene-d5	11.455	117	1659843	10.000	ppbv	-0.04
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.770	95	1391737	10.197	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.835	85	6064	0.045	ppbv	98
3) Chlorodifluoromethane	2.652	51	4657	0.054	ppbv #	91
4) Chloromethane	2.793	50	3975	0.073	ppbv	88
5) Vinyl Chloride	2.903	62	2304	0.053	ppbv #	77
7) Chloroethane	3.182	64	1283	0.074	ppbv #	1
8) Dichlorotetrafluoroethane	2.835	85	6064	0.052	ppbv	98
11) Trichlorofluoromethane	3.542	101	4442	0.037	ppbv	96
12) 1,1,2-Trichlorotrifluo...	4.047	101	3082	0.034	ppbv #	42
13) Ethanol	3.237	45	432	0.133	ppbv #	42
15) Acetone	3.468	43	12013	0.137	ppbv #	81
20) Methylene Chloride	3.912	84	9142	0.201	ppbv #	87
23) Vinyl Acetate	4.616	43	1182	0.045	ppbv #	69
25) Ethyl Acetate	5.202	43	9486	0.058	ppbv #	86
26) Hexane	5.189	57	3639	0.052	ppbv #	1
27) Carbon Disulfide	4.112	76	2830	0.032	ppbv #	63
32) 1,1,1-Trichloroethane	5.983	97	3783	0.034	ppbv #	55
39) 1,2-Dichloropropane	6.636	63	476539	8.471	ppbv #	25

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

Quant Time: Feb 24 09:20:54 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 22 03:17:31 2023
Response via : Initial Calibration

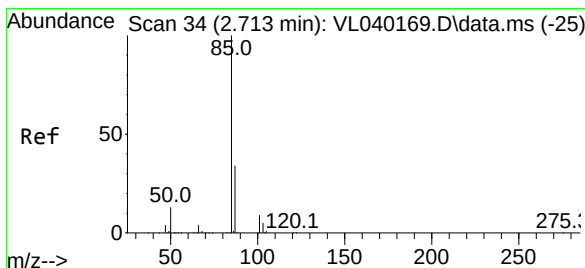
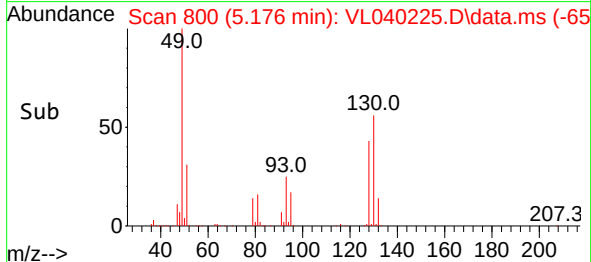
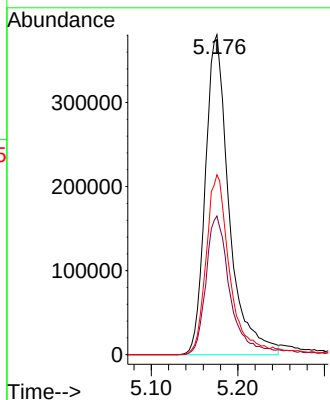
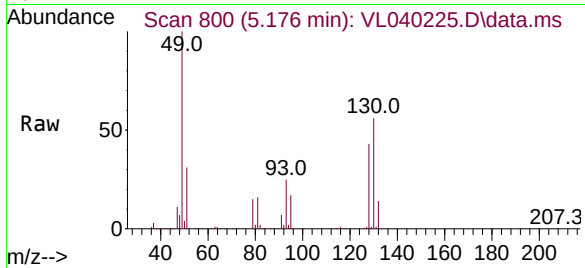




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.176 min Scan# 80
 Delta R.T. -0.029 min
 Lab File: VL040225.D
 Acq: 24 Feb 2023 8:39

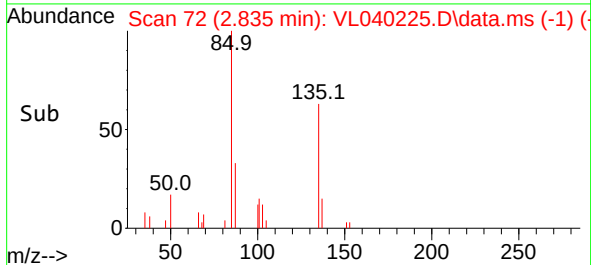
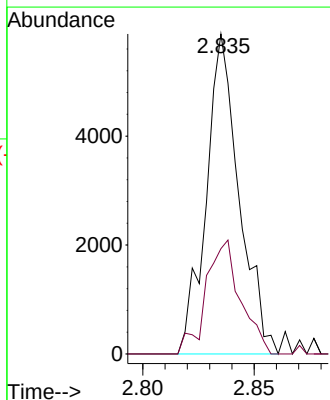
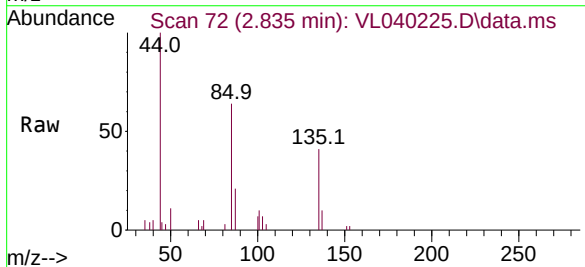
Instrument :
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 ClientSampleId :
 QC022123 CAN 10605

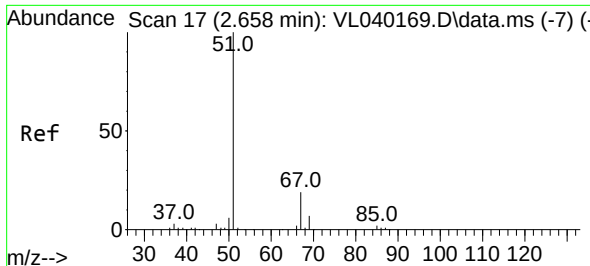
Tgt Ion: 49 Resp: 725810
 Ion Ratio Lower Upper
 49 100
 128 46.0 24.1 72.3
 130 59.2 30.9 92.8



#2
 Dichlorodifluoromethane
 Concen: 0.045 ppbv
 RT: 2.835 min Scan# 72
 Delta R.T. 0.106 min
 Lab File: VL040225.D
 Acq: 24 Feb 2023 8:39

Tgt Ion: 85 Resp: 6064
 Ion Ratio Lower Upper
 85 100
 87 32.9 27.0 40.6

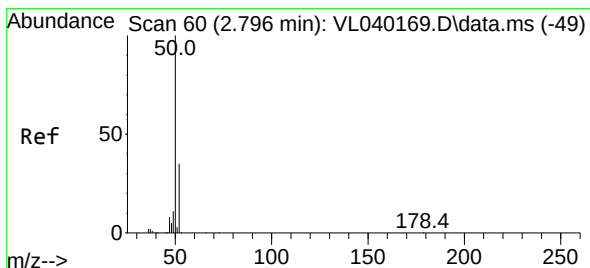
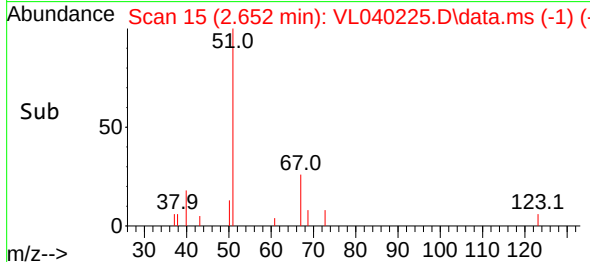
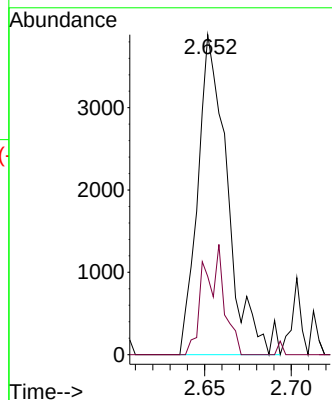
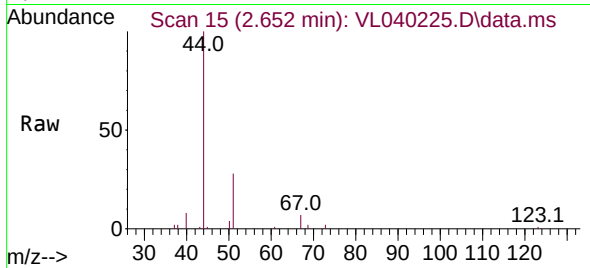




#3
Chlorodifluoromethane
Concen: 0.054 ppbv
RT: 2.652 min Scan# 11
Delta R.T. -0.022 min
Lab File: VL040225.D
Acq: 24 Feb 2023 8:39

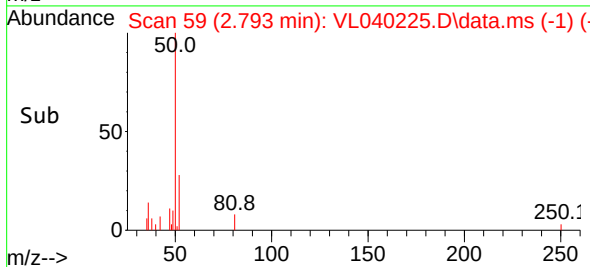
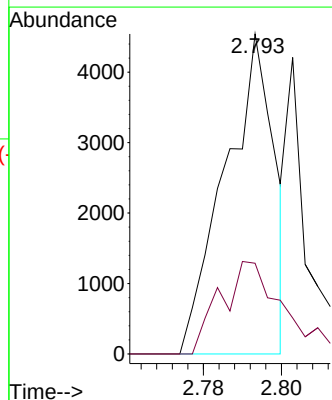
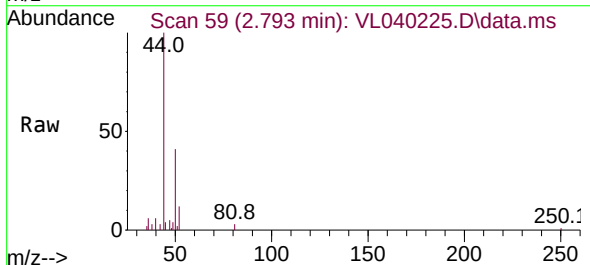
Instrument :
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ClientSampleId :
QC022123 CAN 10605

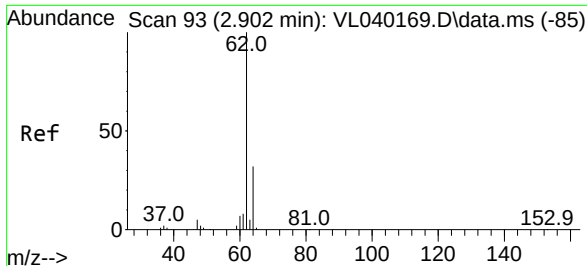
Tgt Ion: 51 Resp: 4657
Ion Ratio Lower Upper
51 100
67 23.4 15.4 23.2#



#4
Chloromethane
Concen: 0.073 ppbv
RT: 2.793 min Scan# 59
Delta R.T. -0.019 min
Lab File: VL040225.D
Acq: 24 Feb 2023 8:39

Tgt Ion: 50 Resp: 3975
Ion Ratio Lower Upper
50 100
52 28.4 28.3 42.5

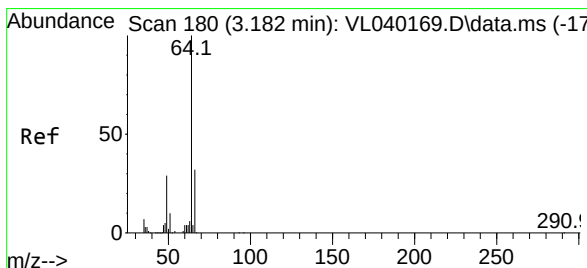
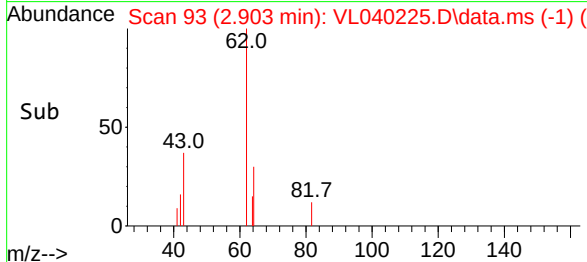
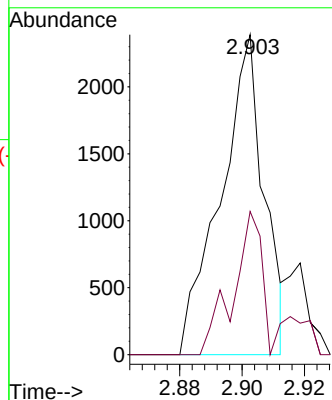
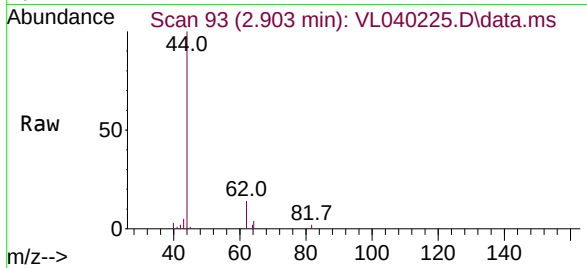




#5
 Vinyl Chloride
 Concen: 0.053 ppbv
 RT: 2.903 min Scan# 91
 Delta R.T. -0.019 min
 Lab File: VL040225.D
 Acq: 24 Feb 2023 8:39

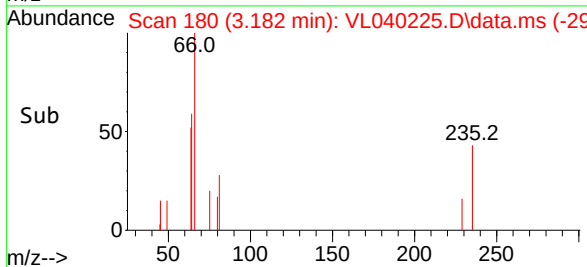
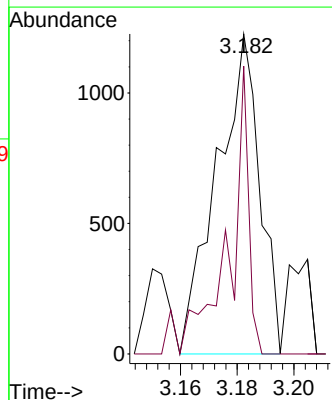
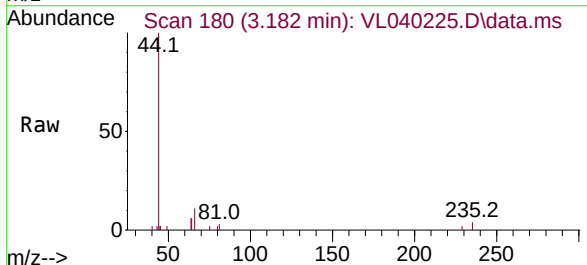
Instrument :
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 ClientSampleId :
 QC022123 CAN 10605

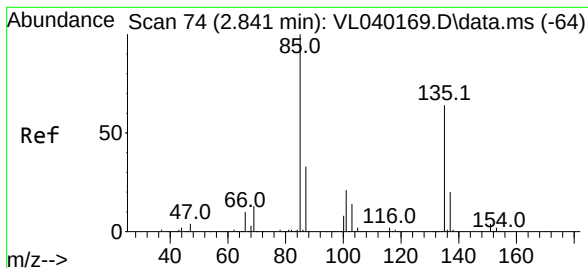
Tgt Ion: 62 Resp: 2304
 Ion Ratio Lower Upper
 62 100
 64 44.7 25.6 38.4#



#7
 Chloroethane
 Concen: 0.074 ppbv
 RT: 3.182 min Scan# 180
 Delta R.T. -0.016 min
 Lab File: VL040225.D
 Acq: 24 Feb 2023 8:39

Tgt Ion: 64 Resp: 1283
 Ion Ratio Lower Upper
 64 100
 66 90.0 25.4 38.2#

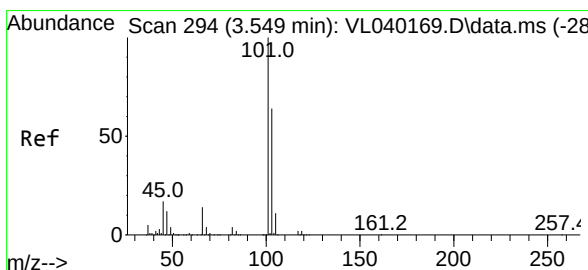
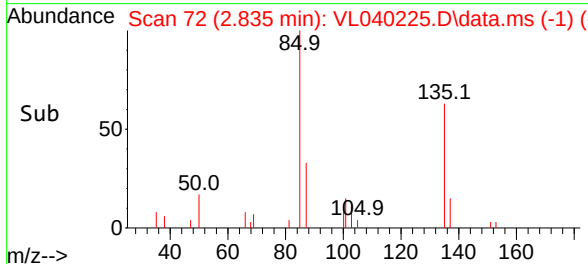
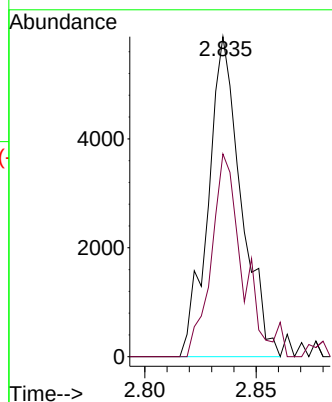
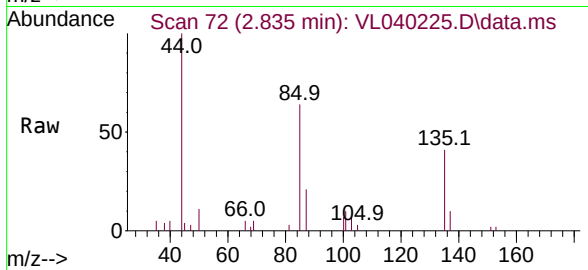




#8
Dichlorotetrafluoroethane
Concen: 0.052 ppbv
RT: 2.835 min Scan# 71
Delta R.T. -0.022 min
Lab File: VL040225.D
Acq: 24 Feb 2023 8:39

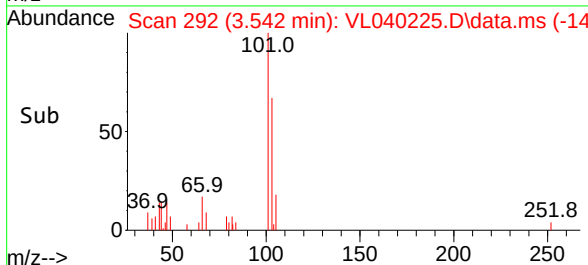
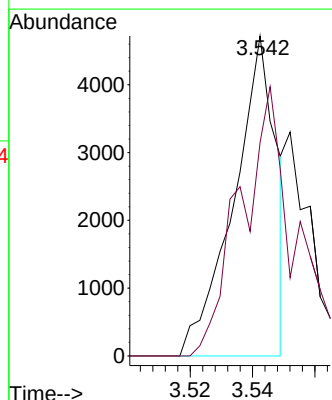
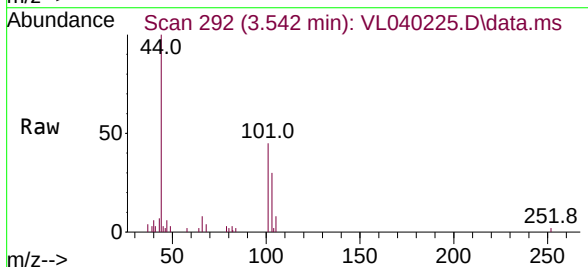
Instrument :
MSVOA_L
ClientSampleId :
QC022123 CAN 10605

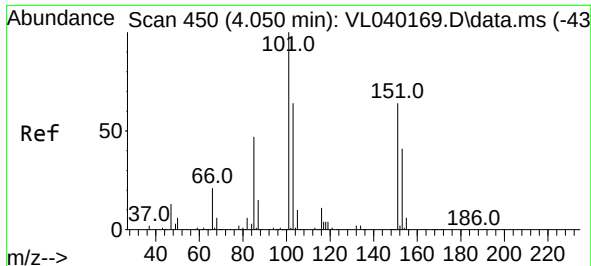
Tgt Ion: 85 Resp: 6064
Ion Ratio Lower Upper
85 100
135 62.6 51.5 77.3



#11
Trichlorofluoromethane
Concen: 0.037 ppbv
RT: 3.542 min Scan# 292
Delta R.T. -0.026 min
Lab File: VL040225.D
Acq: 24 Feb 2023 8:39

Tgt Ion: 101 Resp: 4442
Ion Ratio Lower Upper
101 100
103 66.6 51.0 76.6

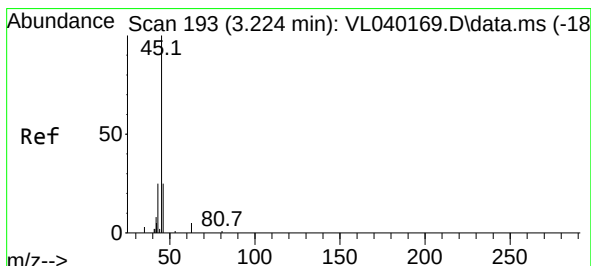
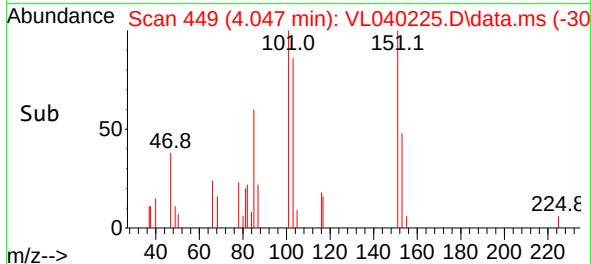
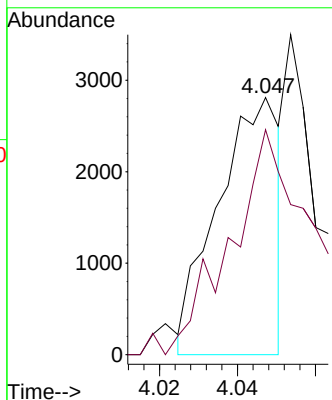
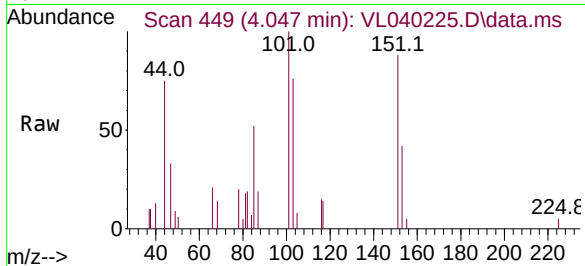




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.034 ppbv
RT: 4.047 min Scan# 449
Delta R.T. -0.026 min
Lab File: VL040225.D
Acq: 24 Feb 2023 8:39

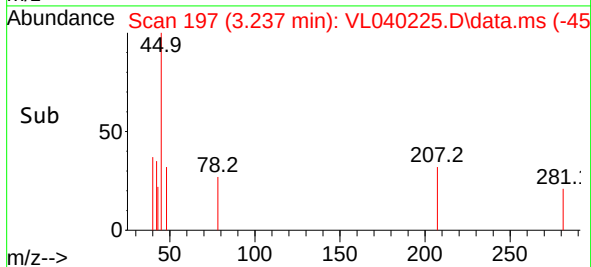
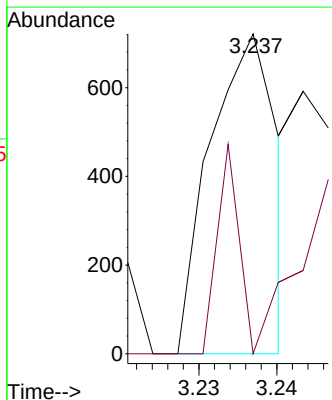
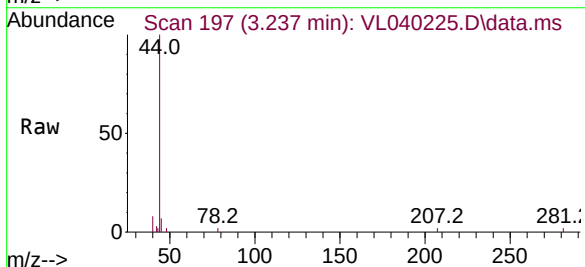
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ClientSampleId :
QC022123 CAN 10605

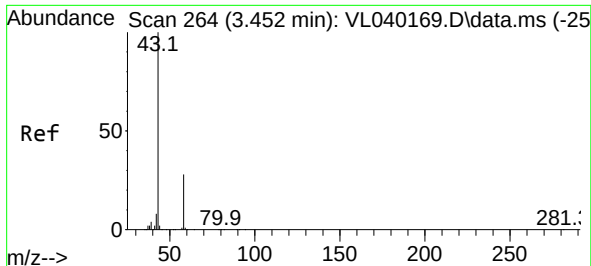
Tgt Ion:101 Resp: 3082
Ion Ratio Lower Upper
101 100
151 115.7 54.7 82.1#



#13
Ethanol
Concen: 0.133 ppbv
RT: 3.237 min Scan# 197
Delta R.T. -0.013 min
Lab File: VL040225.D
Acq: 24 Feb 2023 8:39

Tgt Ion: 45 Resp: 432
Ion Ratio Lower Upper
45 100
46 66.2 13.3 53.1#

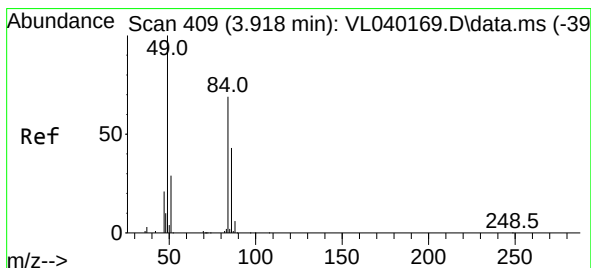
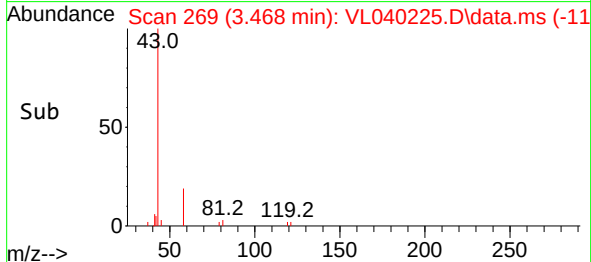
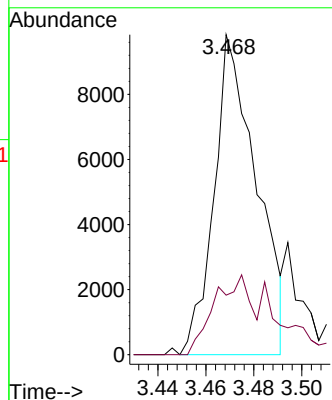
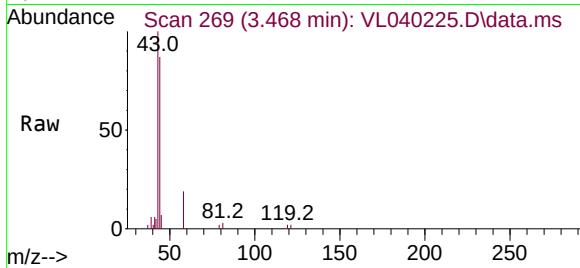




#15
Acetone
Concen: 0.137 ppbv
RT: 3.468 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL040225.D
Acq: 24 Feb 2023 8:39

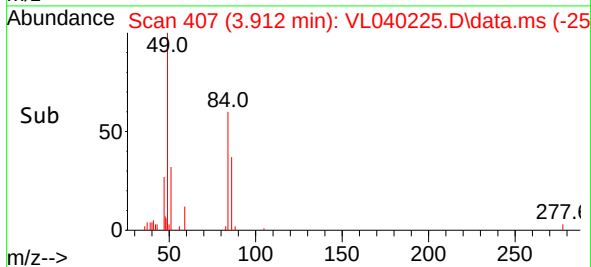
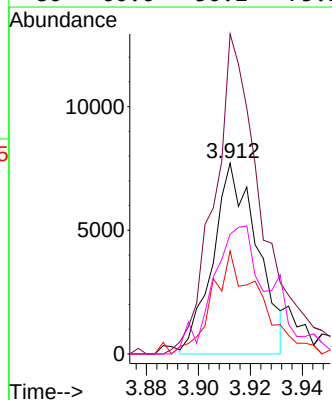
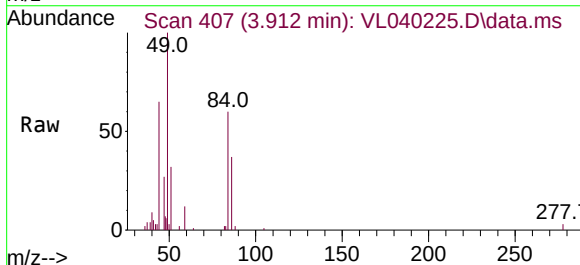
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QC022123 CAN 10605

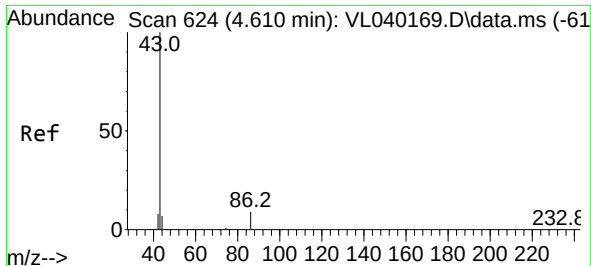
Tgt Ion: 43 Resp: 12013
Ion Ratio Lower Upper
43 100
58 37.9 22.4 33.6#



#20
Methylene Chloride
Concen: 0.201 ppbv
RT: 3.912 min Scan# 407
Delta R.T. -0.026 min
Lab File: VL040225.D
Acq: 24 Feb 2023 8:39

Tgt Ion: 84 Resp: 9142
Ion Ratio Lower Upper
84 100
49 165.0 115.5 173.3
51 51.1 33.1 49.7#
86 60.6 50.2 75.2

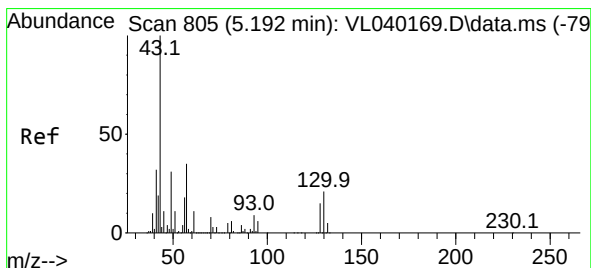
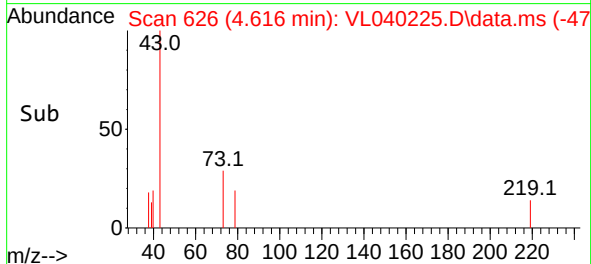
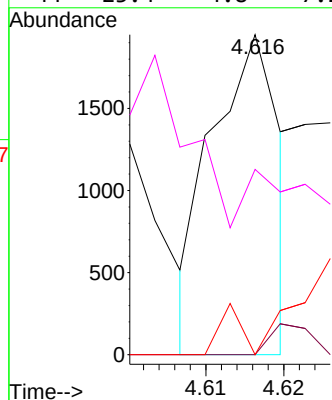
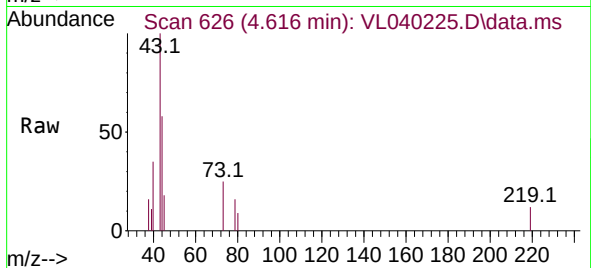




#23
 Vinyl Acetate
 Concen: 0.045 ppbv
 RT: 4.616 min Scan# 61
 Delta R.T. -0.022 min
 Lab File: VL040225.D
 Acq: 24 Feb 2023 8:39

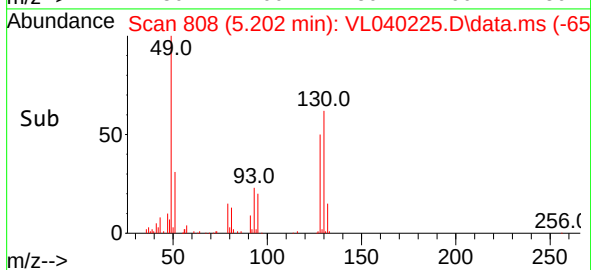
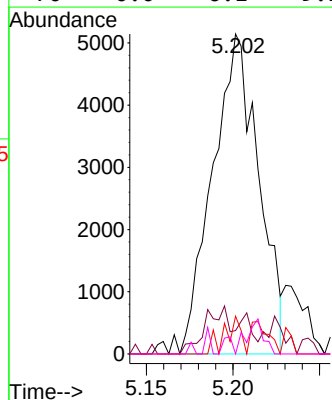
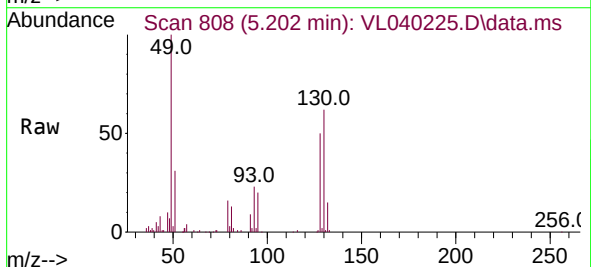
Instrument :
 MSVOA_1
 ClientSampleId :
 QC022123 CAN 10605

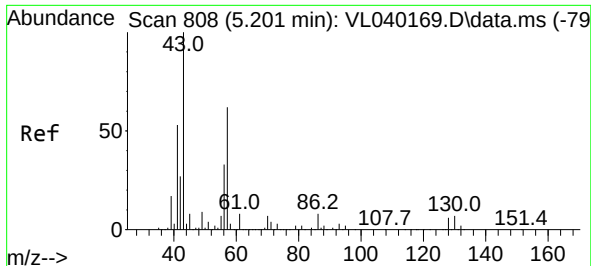
Tgt Ion:	43	Resp:	1182
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.6	8.4#
42	0.0	7.6	11.4#
44	23.4	4.8	7.2#



#25
 Ethyl Acetate
 Concen: 0.058 ppbv
 RT: 5.202 min Scan# 808
 Delta R.T. -0.016 min
 Lab File: VL040225.D
 Acq: 24 Feb 2023 8:39

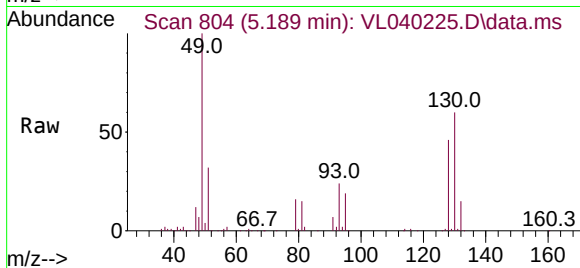
Tgt Ion:	43	Resp:	9486
Ion	Ratio	Lower	Upper
43	100		
45	17.5	8.3	12.5#
61	9.5	8.4	12.6
70	0.0	6.1	9.1#





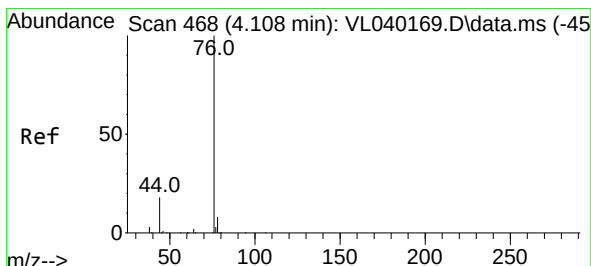
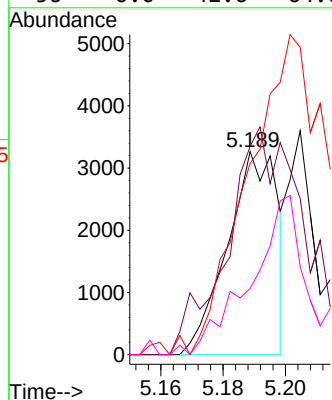
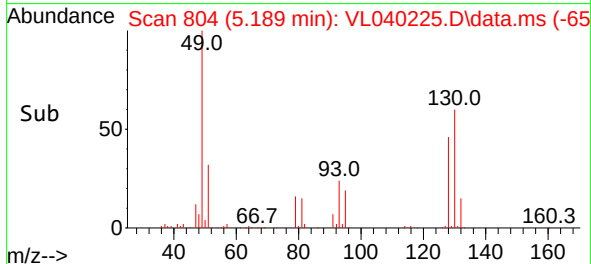
#26
Hexane
Concen: 0.052 ppbv
RT: 5.189 min Scan# 808
Delta R.T. -0.035 min
Lab File: VL040225.D
Acq: 24 Feb 2023 8:39

Instrument :
MSVOA_L
ClientSampleId :
QC022123 CAN 10605



Tgt Ion: 57 Resp: 3639

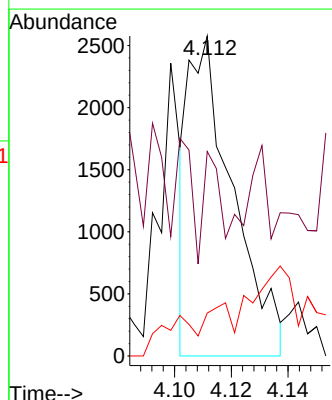
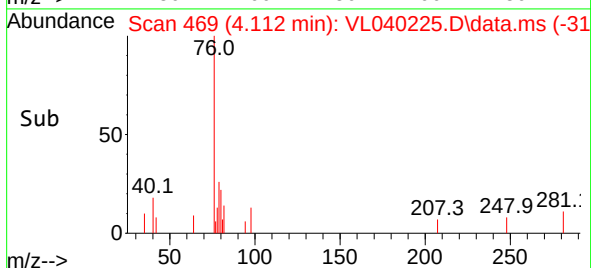
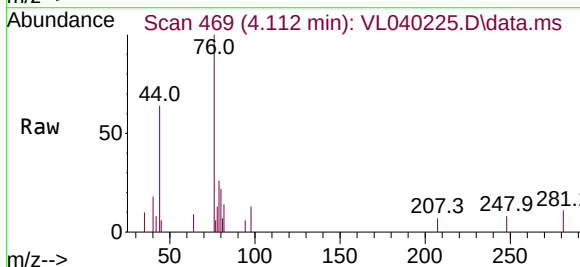
Ion	Ratio	Lower	Upper
57	100		
41	181.6	74.3	111.5#
43	0.0	193.0	289.4#
56	0.0	42.6	64.0#

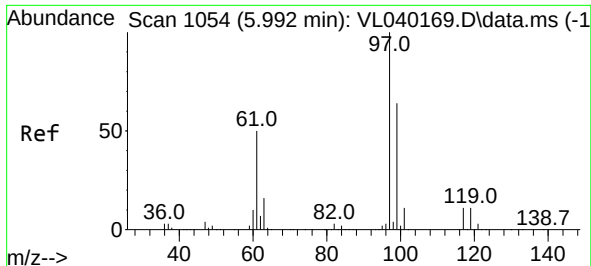


#27
Carbon Disulfide
Concen: 0.032 ppbv
RT: 4.112 min Scan# 469
Delta R.T. -0.019 min
Lab File: VL040225.D
Acq: 24 Feb 2023 8:39

Tgt Ion: 76 Resp: 2830

Ion	Ratio	Lower	Upper
76	100		
44	0.0	15.3	22.9#
78	0.0	7.7	11.5#

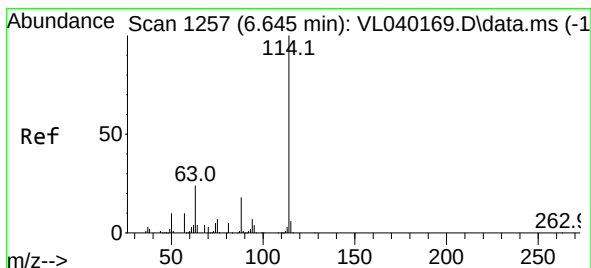
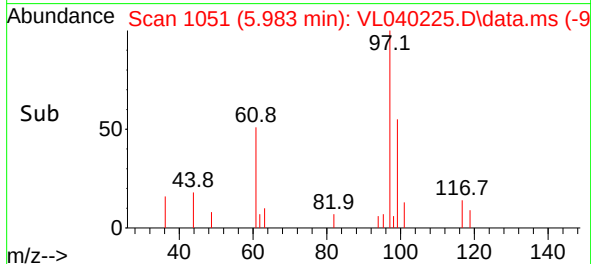
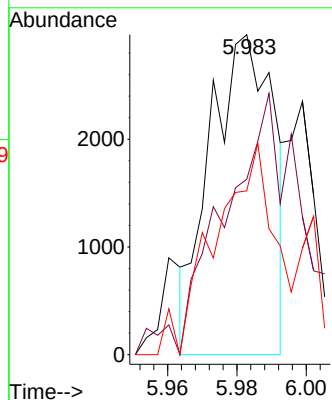
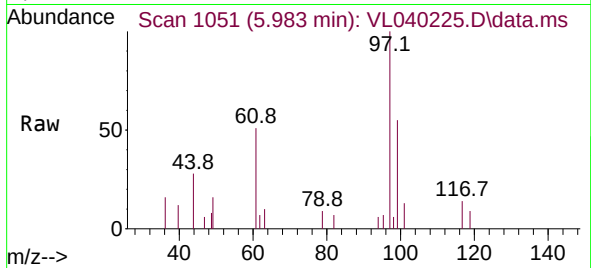




#32
 1,1,1-Trichloroethane
 Concen: 0.034 ppbv
 RT: 5.983 min Scan# 1051
 Delta R.T. -0.039 min
 Lab File: VL040225.D
 Acq: 24 Feb 2023 8:39

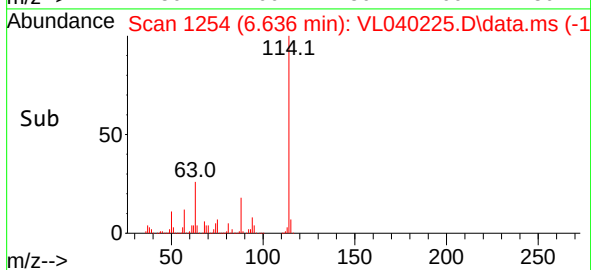
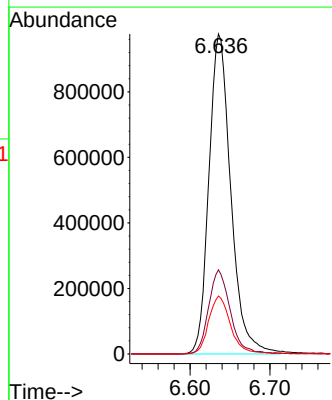
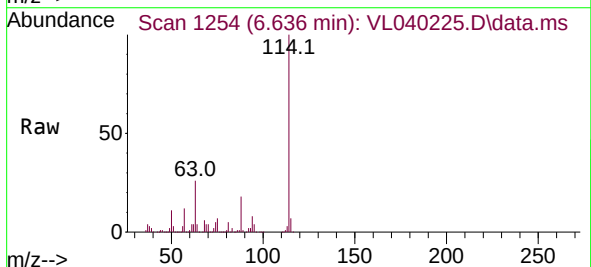
Instrument :
 MSVOA_L
 ClientSampleId :
 QC022123 CAN 10605

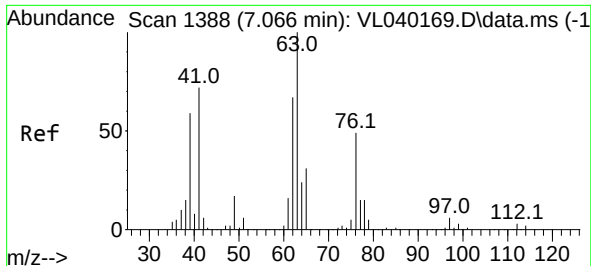
Tgt Ion: 97 Resp: 3783
 Ion Ratio Lower Upper
 97 100
 99 100.1 51.5 77.3#
 61 81.9 40.6 60.8#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 6.636 min Scan# 1254
 Delta R.T. -0.039 min
 Lab File: VL040225.D
 Acq: 24 Feb 2023 8:39

Tgt Ion: 114 Resp: 1858153
 Ion Ratio Lower Upper
 114 100
 63 26.3 20.4 30.6
 88 18.2 14.3 21.5





#39

1,2-Dichloropropane

Concen: 8.471 ppbv

RT: 6.636 min Scan# 11

Delta R.T. -0.460 min

Lab File: VL040225.D

Acq: 24 Feb 2023 8:39

Instrument :

MSVOA_L

ClientSampleId :

QC022123 CAN 10605

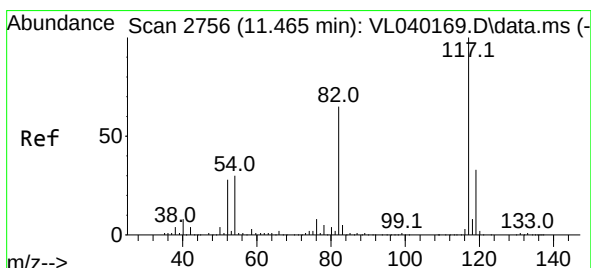
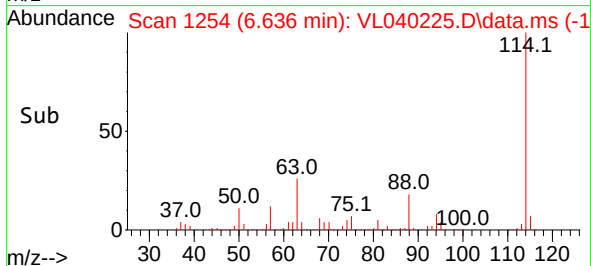
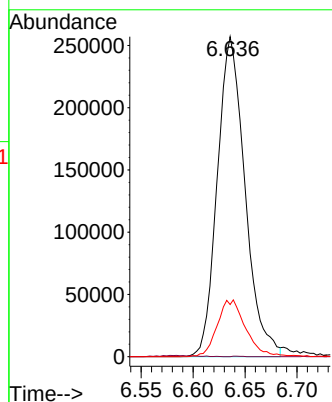
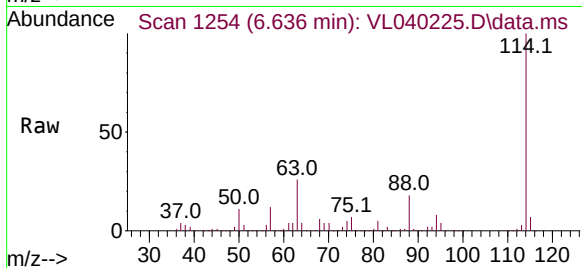
Tgt Ion: 63 Resp: 476539

Ion Ratio Lower Upper

63 100

41 0.0 57.6 86.4#

62 16.3 54.0 81.0#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.455 min Scan# 2753

Delta R.T. -0.039 min

Lab File: VL040225.D

Acq: 24 Feb 2023 8:39

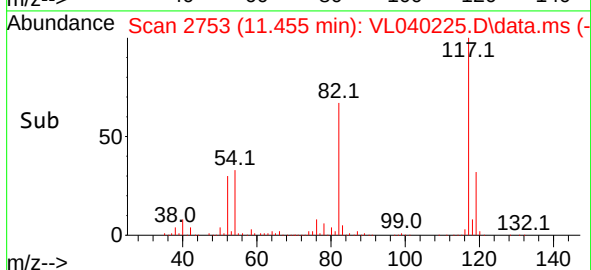
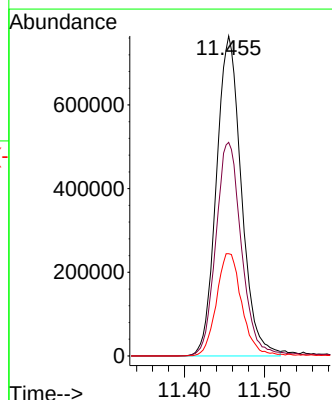
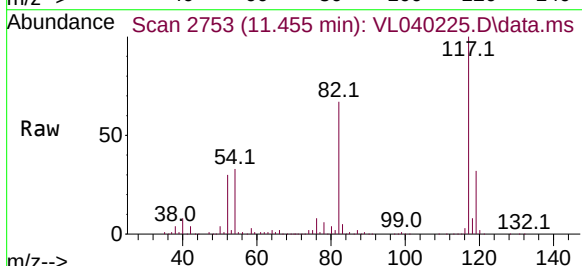
Tgt Ion: 117 Resp: 1659843

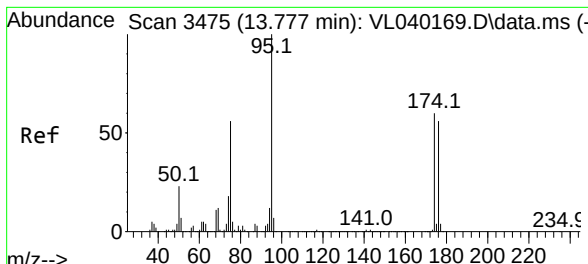
Ion Ratio Lower Upper

117 100

82 69.2 53.3 79.9

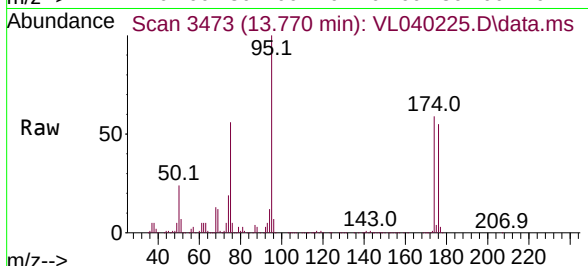
119 33.1 24.6 37.0





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.197 ppbv
 RT: 13.770 min Scan# 34
 Delta R.T. -0.035 min
 Lab File: VL040225.D
 Acq: 24 Feb 2023 8:39

Instrument :
 MSVOA_L
 ClientSampleId :
 QC022123 CAN 10605



Tgt Ion: 95 Resp: 1391737

Ion	Ratio	Lower	Upper
95	100		
174	57.7	48.2	72.2
175	4.2	3.4	5.2

