

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
 Data File : VL042089.D
 Acq On : 03 Mar 2025 21:31
 Operator : SY/MD
 Sample : QC022625 CAN 10682
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC022625 CAN 10682

Quant Time: Mar 04 00:24:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

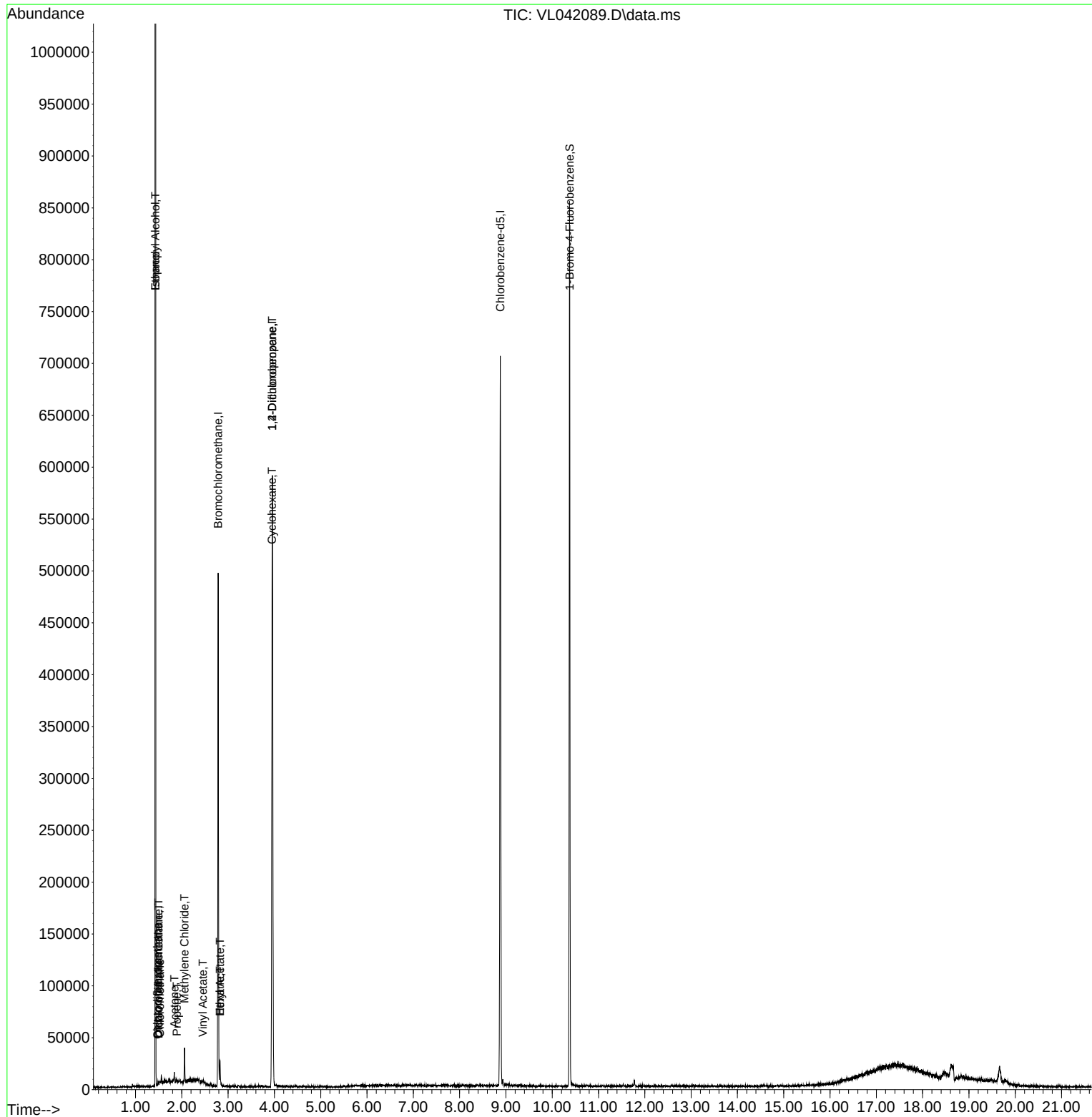
Internal Standards						
1) Bromochloromethane	2.784	49	148245	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.955	114	330656	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.878	117	278376	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	205488	9.595	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.495	85	478	0.031	ppbv #	46
3) Chlorodifluoromethane	1.476	51	816	0.038	ppbv #	63
4) Chloromethane	1.528	50	231	0.041	ppbv #	43
8) Dichlorotetrafluoroethane	1.495	85	478	0.038	ppbv #	18
9) Propene	1.890	41	424	0.048	ppbv	100
13) Ethanol	1.431	45	84615	151.858	ppbv	89
15) Acetone	1.839	43	3495	0.267	ppbv #	87
19) Isopropyl Alcohol	1.431	45	84615	11.252	ppbv #	32
20) Methylene Chloride	2.059	84	5074	1.025	ppbv #	89
23) Vinyl Acetate	2.454	43	294	0.032	ppbv #	46
25) Ethyl Acetate	2.822	43	3985	0.076	ppbv #	78
26) Hexane	2.826	57	5118	0.242	ppbv #	33
30) Cyclohexane	3.949	84	1025	0.060	ppbv #	1
39) 1,2-Dichloropropane	3.955	63	88820	6.760	ppbv #	24

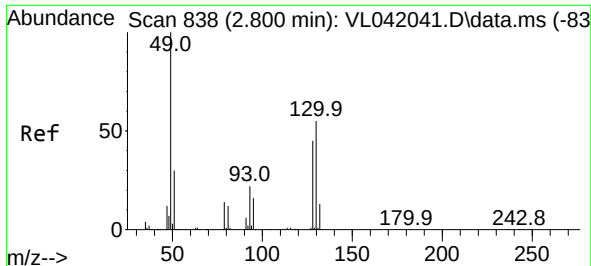
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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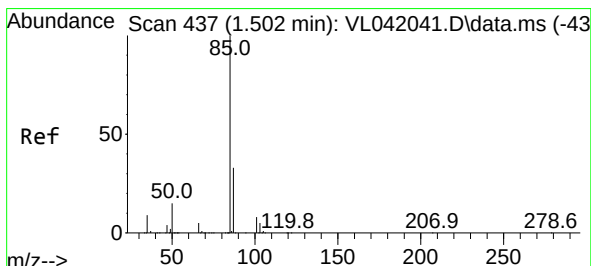
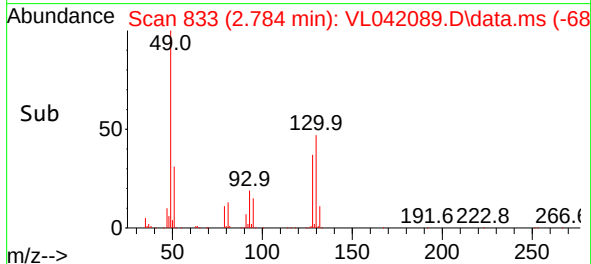
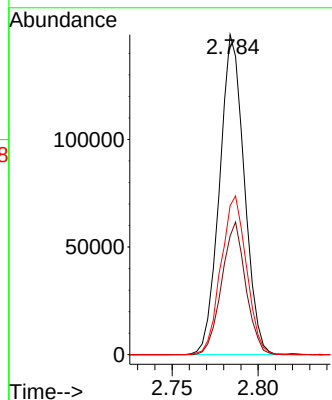
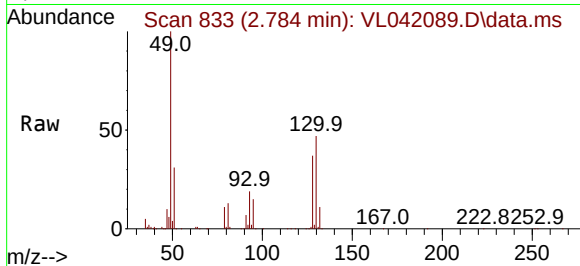




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.784 min Scan# 81
 Delta R.T. -0.016 min
 Lab File: VL042089.D
 Acq: 03 Mar 2025 21:31

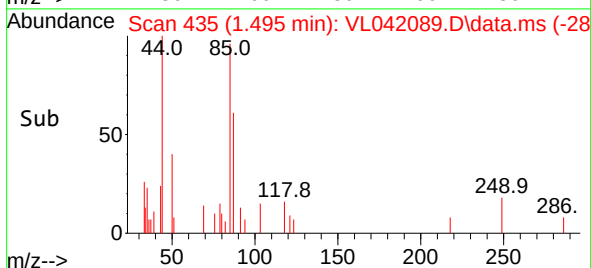
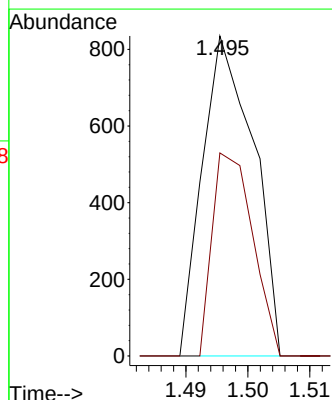
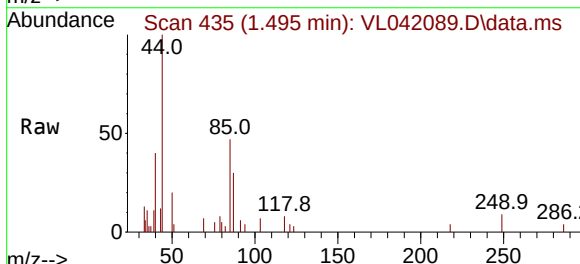
Instrument :
 MSVOA_L
 ClientSampleId :
 QC022625 CAN 10682

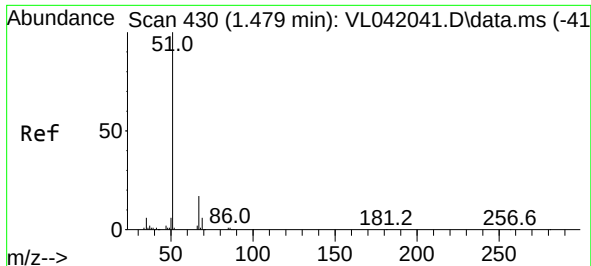
Tgt Ion: 49 Resp: 148245
 Ion Ratio Lower Upper
 49 100
 128 40.3 21.6 64.8
 130 51.5 27.8 83.4



#2
 Dichlorodifluoromethane
 Concen: 0.031 ppbv
 RT: 1.495 min Scan# 435
 Delta R.T. -0.007 min
 Lab File: VL042089.D
 Acq: 03 Mar 2025 21:31

Tgt Ion: 85 Resp: 478
 Ion Ratio Lower Upper
 85 100
 87 63.5 26.4 39.6#

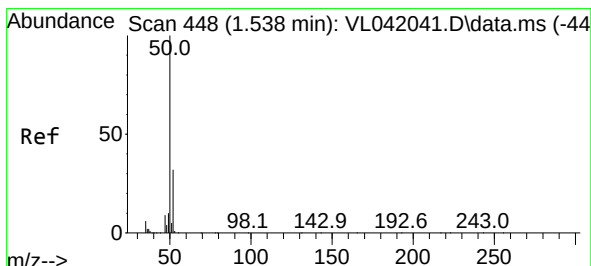
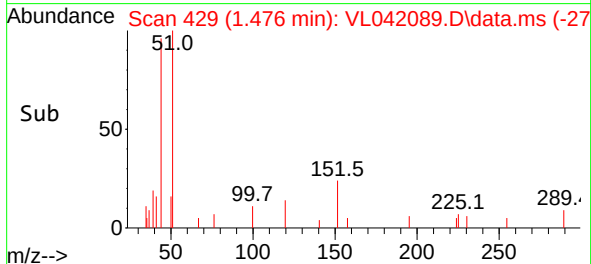
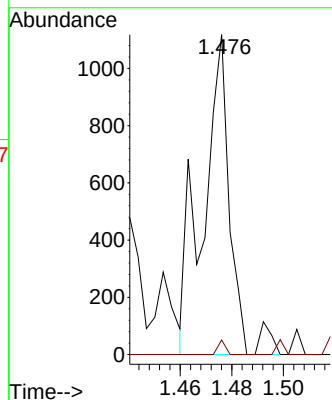
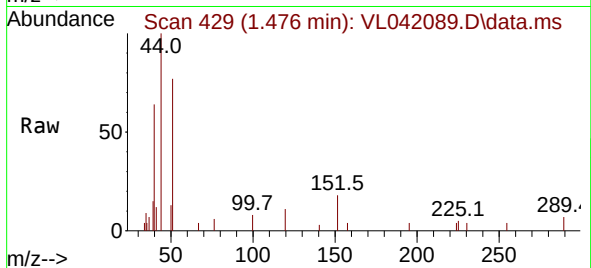




#3
Chlorodifluoromethane
Concen: 0.038 ppbv
RT: 1.476 min Scan# 431
Delta R.T. -0.003 min
Lab File: VL042089.D
Acq: 03 Mar 2025 21:31

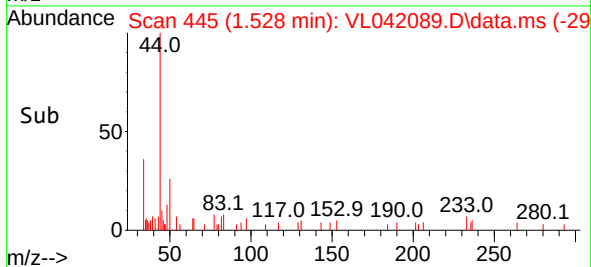
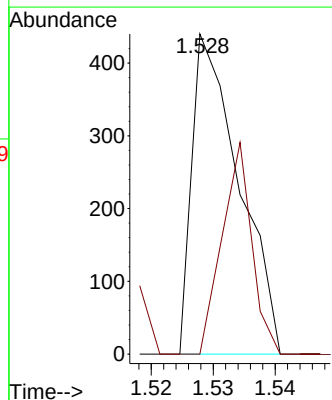
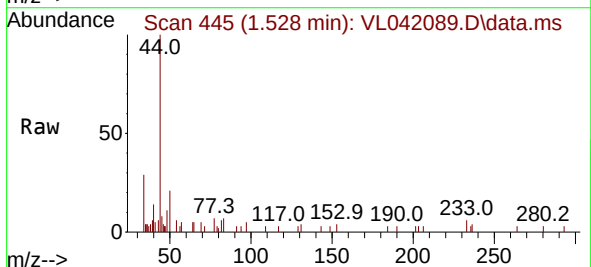
Instrument :
MSVOA_L
ClientSampleId :
QC022625 CAN 10682

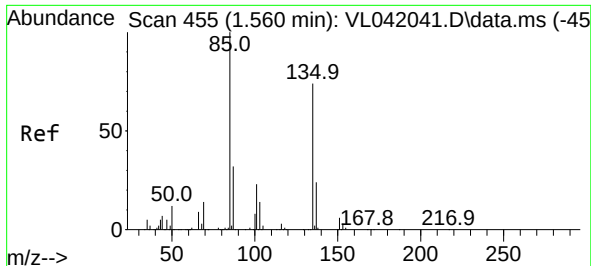
Tgt Ion: 51 Resp: 816
Ion Ratio Lower Upper
51 100
67 1.2 13.7 20.5#



#4
Chloromethane
Concen: 0.041 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.010 min
Lab File: VL042089.D
Acq: 03 Mar 2025 21:31

Tgt Ion: 50 Resp: 231
Ion Ratio Lower Upper
50 100
52 0.0 25.4 38.0#

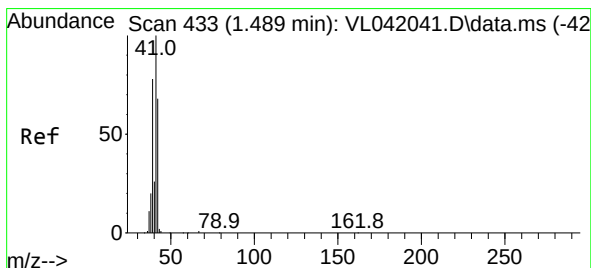
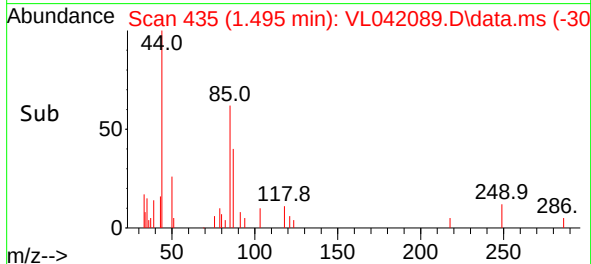
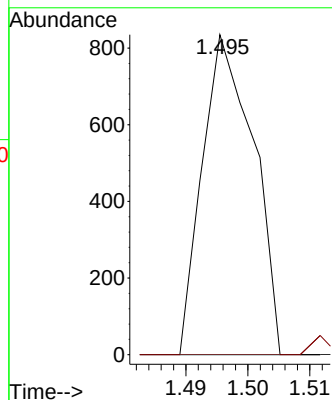
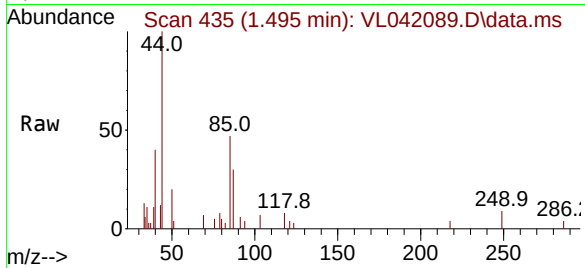




#8
 Dichlorotetrafluoroethane
 Concen: 0.038 ppbv
 RT: 1.495 min Scan# 41
 Delta R.T. -0.065 min
 Lab File: VL042089.D
 Acq: 03 Mar 2025 21:31

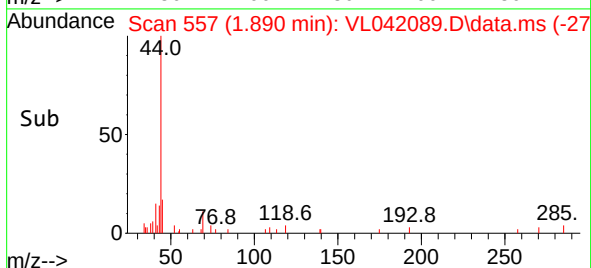
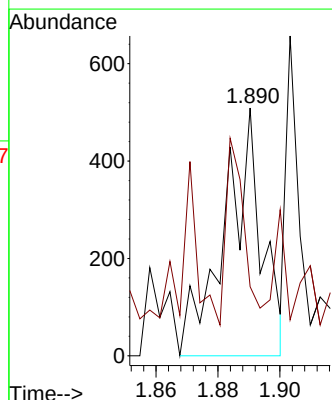
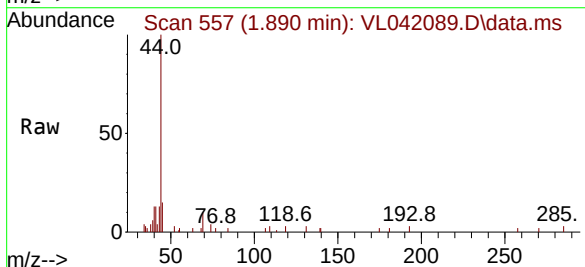
Instrument :
 MSVOA_L
 ClientSampleId :
 QC022625 CAN 10682

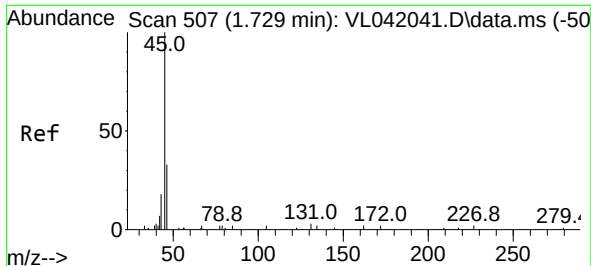
Tgt Ion: 85 Resp: 478
 Ion Ratio Lower Upper
 85 100
 135 2.1 54.6 81.8#



#9
 Propene
 Concen: 0.048 ppbv
 RT: 1.890 min Scan# 557
 Delta R.T. 0.401 min
 Lab File: VL042089.D
 Acq: 03 Mar 2025 21:31

Tgt Ion: 41 Resp: 424
 Ion Ratio Lower Upper
 41 100
 42 69.6 55.8 83.6

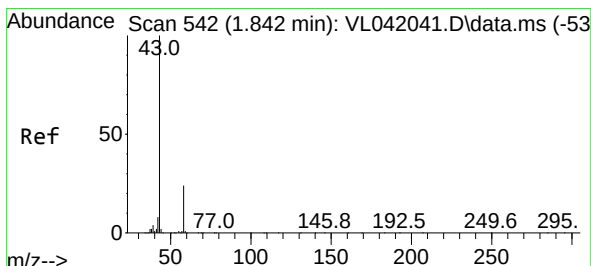
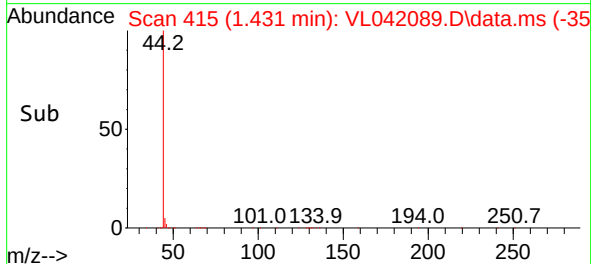
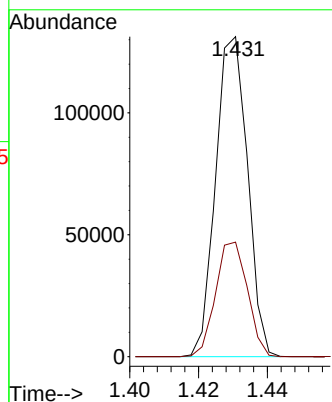
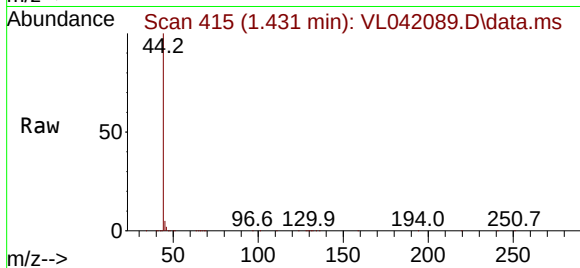




#13
Ethanol
Concen: 151.858 ppbv
RT: 1.431 min Scan# 415
Delta R.T. -0.298 min
Lab File: VL042089.D
Acq: 03 Mar 2025 21:31

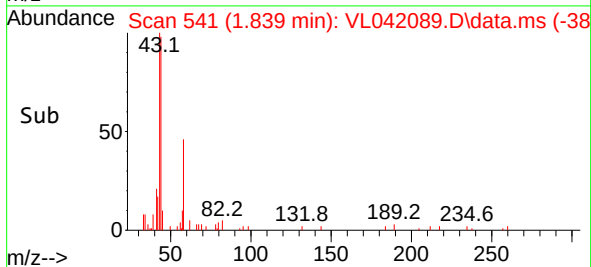
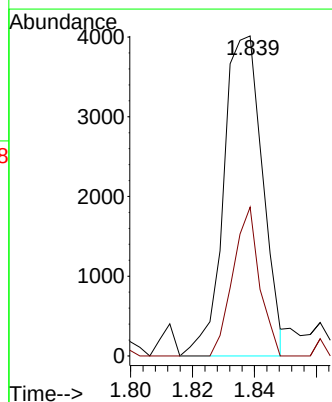
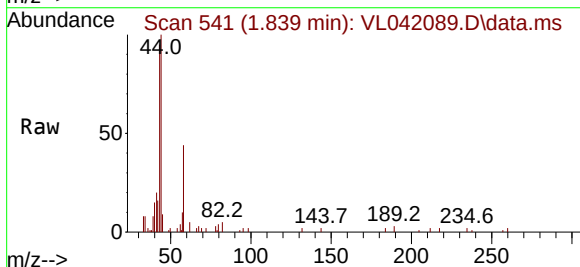
Instrument :
MSVOA_L
ClientSampleId :
QC022625 CAN 10682

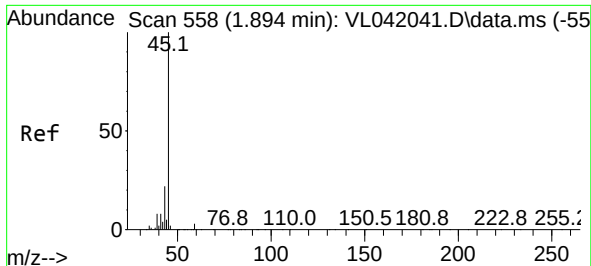
Tgt Ion: 45 Resp: 84615
Ion Ratio Lower Upper
45 100
46 35.8 17.1 68.3



#15
Acetone
Concen: 0.267 ppbv
RT: 1.839 min Scan# 541
Delta R.T. -0.003 min
Lab File: VL042089.D
Acq: 03 Mar 2025 21:31

Tgt Ion: 43 Resp: 3495
Ion Ratio Lower Upper
43 100
58 32.7 20.7 31.1#

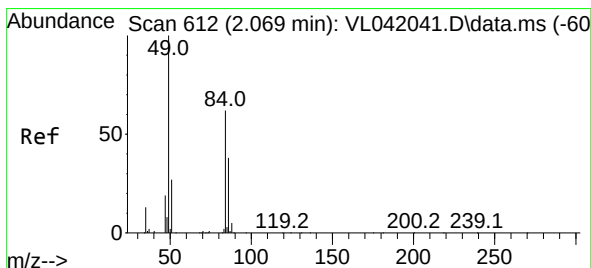
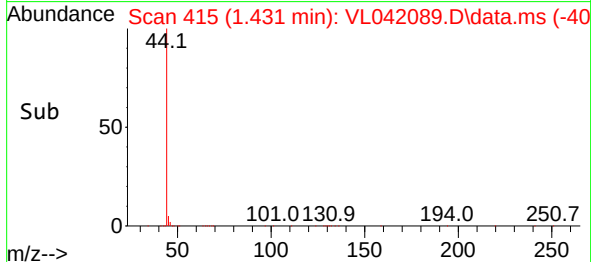
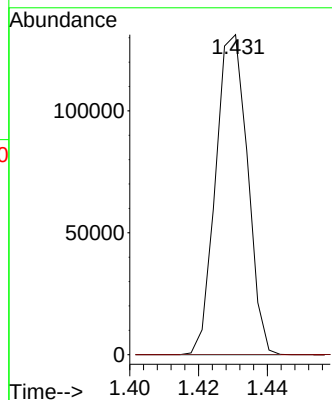
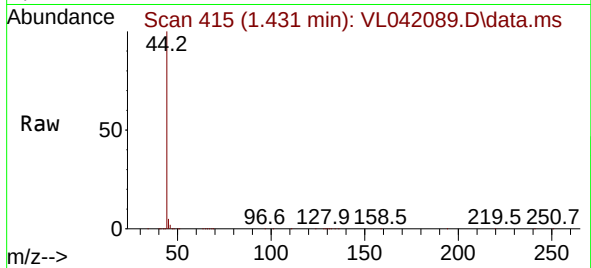




#19
Isopropyl Alcohol
Concen: 11.252 ppbv
RT: 1.431 min Scan# 41
Delta R.T. -0.463 min
Lab File: VL042089.D
Acq: 03 Mar 2025 21:31

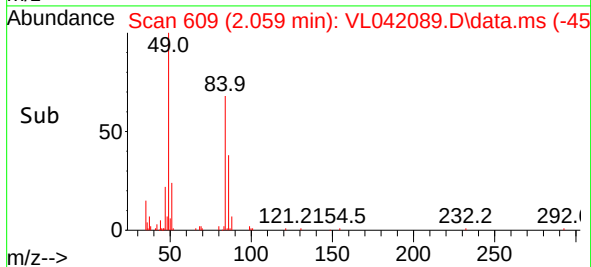
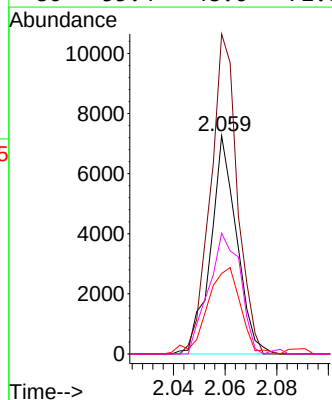
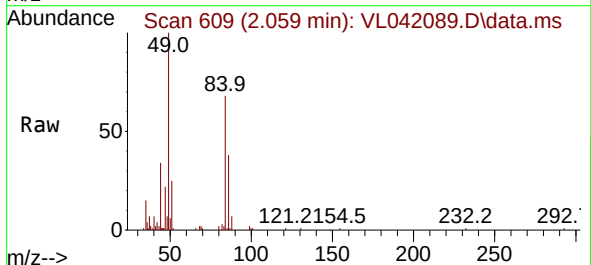
Instrument :
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ClientSampleId :
QC022625 CAN 10682

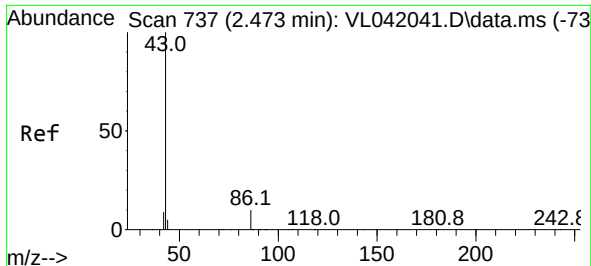
Tgt Ion: 45 Resp: 84615
Ion Ratio Lower Upper
45 100
58 0.1 35.3 52.9#



#20
Methylene Chloride
Concen: 1.025 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.010 min
Lab File: VL042089.D
Acq: 03 Mar 2025 21:31

Tgt Ion: 84 Resp: 5074
Ion Ratio Lower Upper
84 100
49 146.6 130.0 195.0
51 36.9 37.4 56.0#
86 55.4 48.6 72.8

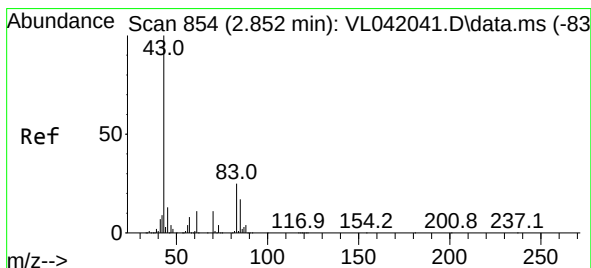
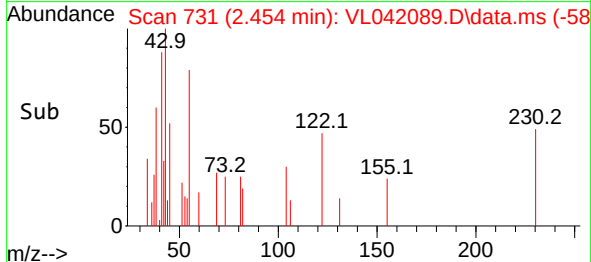
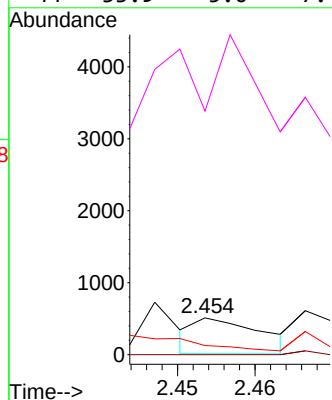
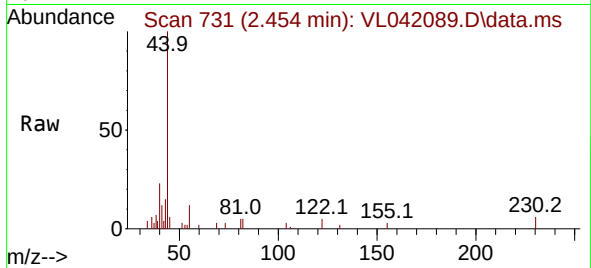




#23
 Vinyl Acetate
 Concen: 0.032 ppbv
 RT: 2.454 min Scan# 71
 Delta R.T. -0.020 min
 Lab File: VL042089.D
 Acq: 03 Mar 2025 21:31

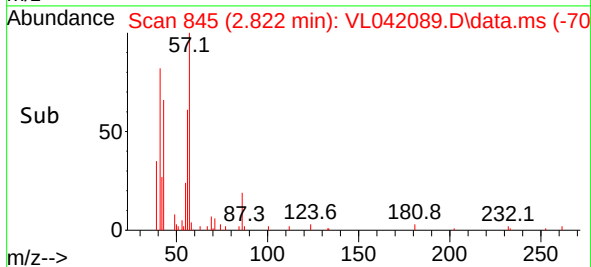
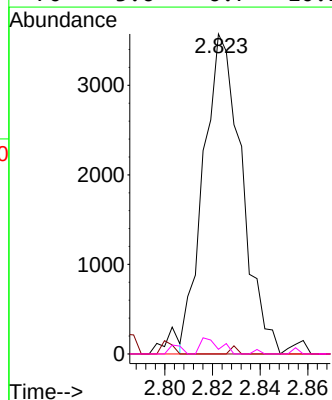
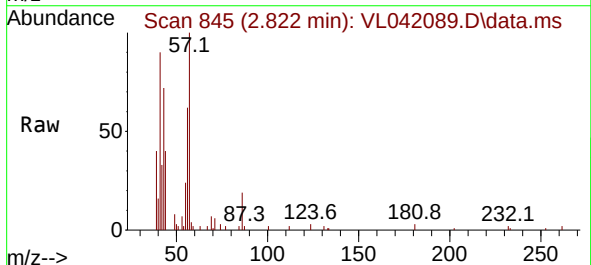
Instrument :
 MSVOA_1
 ClientSampleId :
 QC022625 CAN 10682

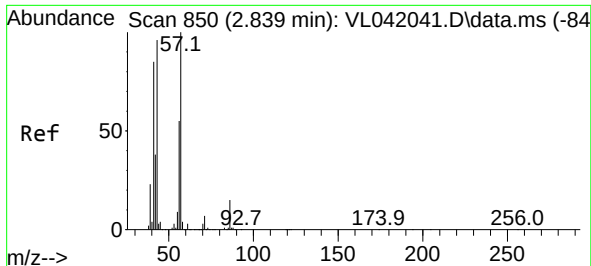
Tgt Ion:	43	Resp:	294
Ion	Ratio	Lower	Upper
43	100		
86	0.0	7.0	10.4#
42	32.2	7.6	11.4#
44	33.9	5.0	7.4#



#25
 Ethyl Acetate
 Concen: 0.076 ppbv
 RT: 2.822 min Scan# 845
 Delta R.T. -0.029 min
 Lab File: VL042089.D
 Acq: 03 Mar 2025 21:31

Tgt Ion:	43	Resp:	3985
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.1	12.1#
61	0.0	7.2	10.8#
70	3.6	6.7	10.1#

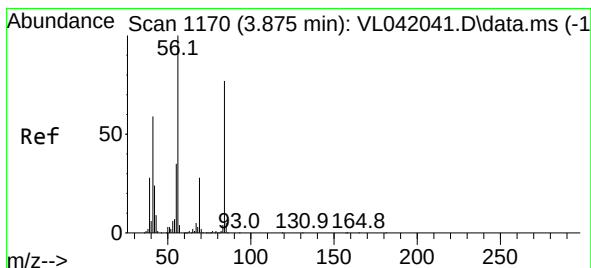
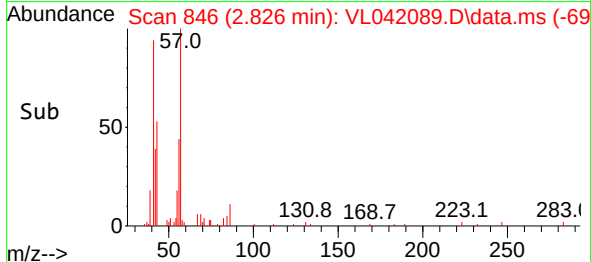
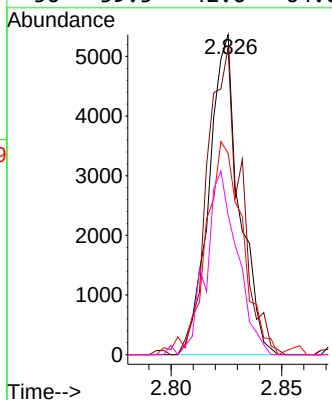
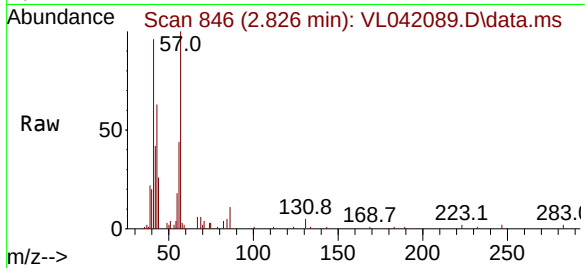




#26
Hexane
Concen: 0.242 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.013 min
Lab File: VL042089.D
Acq: 03 Mar 2025 21:31

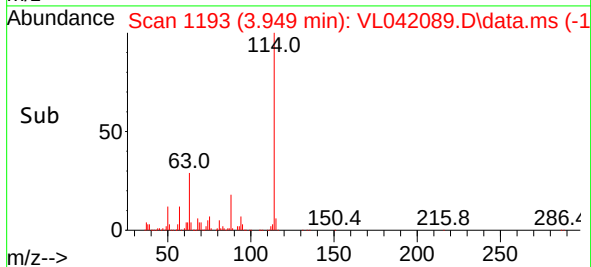
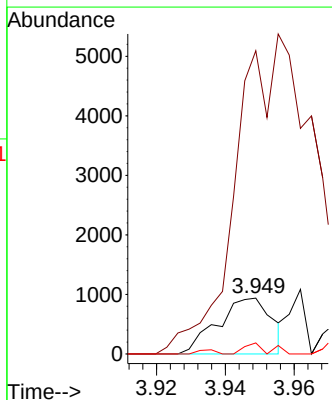
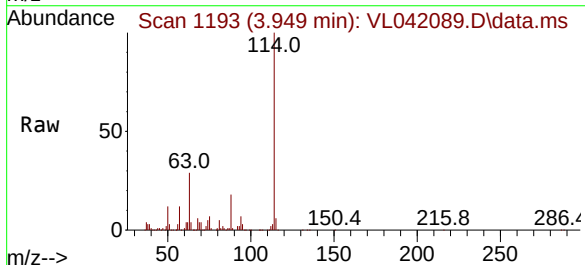
Instrument :
MSVOA_L
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QC022625 CAN 10682

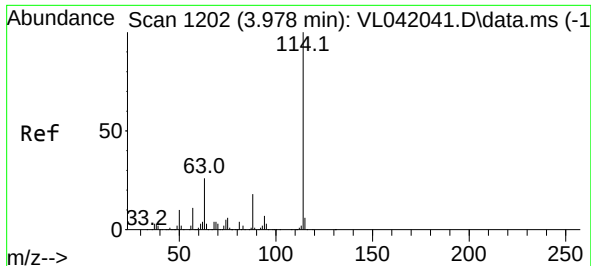
Tgt Ion: 57	Resp: 5118
Ion Ratio	Lower Upper
57 100	
41 106.5	70.6 106.0#
43 81.4	199.4 299.0#
56 59.5	42.6 64.0



#30
Cyclohexane
Concen: 0.060 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. 0.074 min
Lab File: VL042089.D
Acq: 03 Mar 2025 21:31

Tgt Ion: 84	Resp: 1025
Ion Ratio	Lower Upper
84 100	
56 0.0	101.5 152.3#
41 4.8	62.6 93.8#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.023 min

Lab File: VL042089.D

Acq: 03 Mar 2025 21:31

Instrument :

MSVOA_L

ClientSampleId :

QC022625 CAN 10682

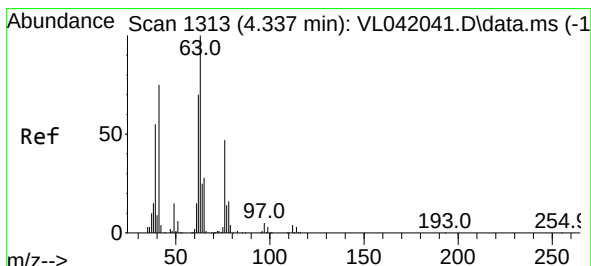
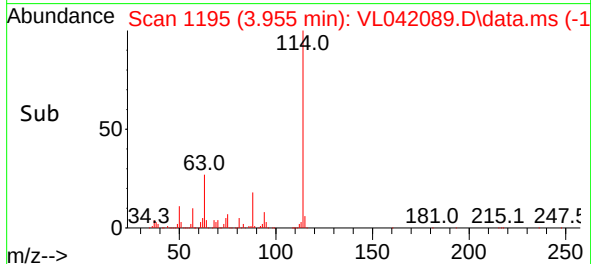
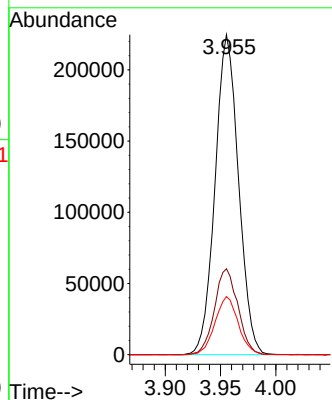
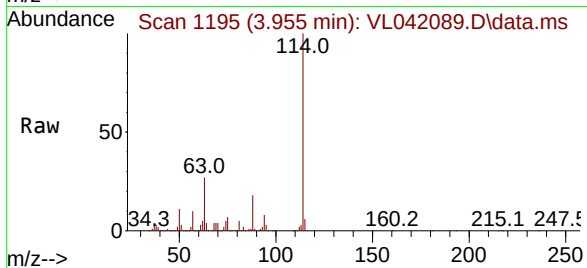
Tgt Ion:114 Resp: 330656

Ion Ratio Lower Upper

114 100

63 26.9 20.1 30.1

88 18.1 14.3 21.5



#39

1,2-Dichloropropane

Concen: 6.760 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.382 min

Lab File: VL042089.D

Acq: 03 Mar 2025 21:31

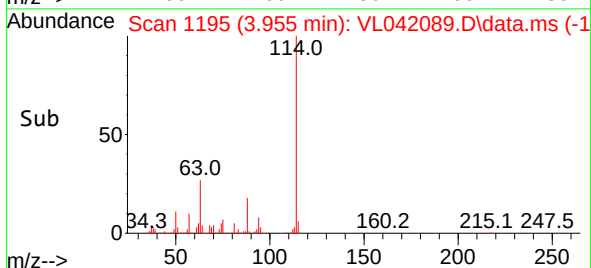
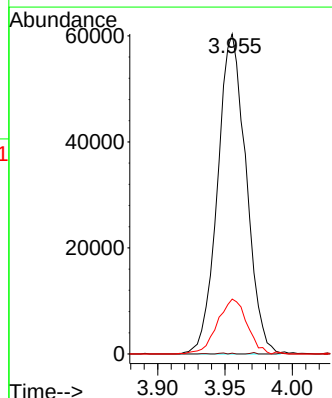
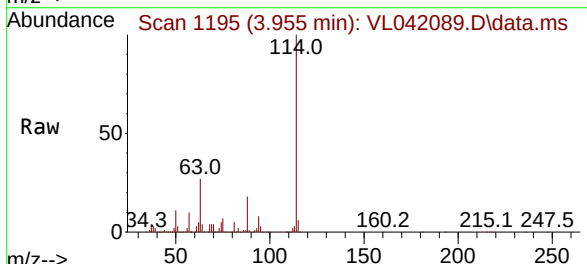
Tgt Ion: 63 Resp: 88820

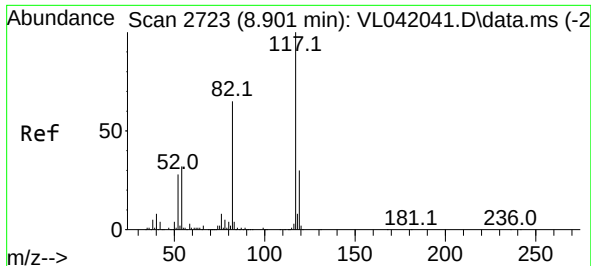
Ion Ratio Lower Upper

63 100

41 0.6 60.1 90.1#

62 16.9 55.8 83.8#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 21

Delta R.T. -0.023 min

Lab File: VL042089.D

Acq: 03 Mar 2025 21:31

Instrument :

MSVOA_1

ClientSampleId :

QC022625 CAN 10682

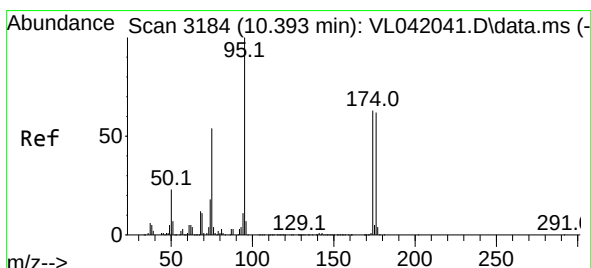
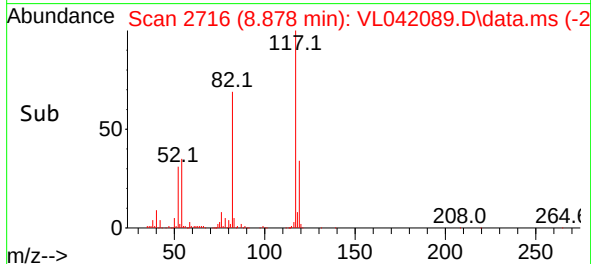
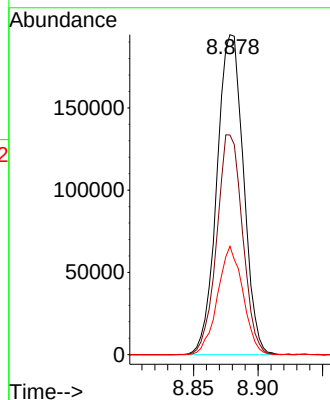
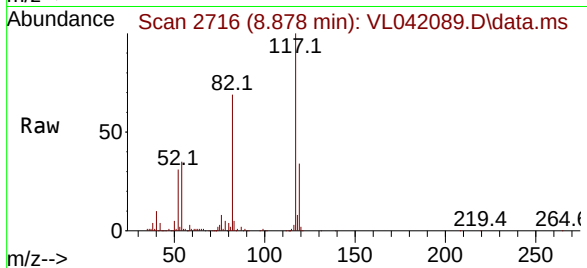
Tgt Ion:117 Resp: 278376

Ion Ratio Lower Upper

117 100

82 66.8 55.0 82.6

119 32.5 25.9 38.9



#68

1-Bromo-4-Fluorobenzene

Concen: 9.595 ppbv

RT: 10.374 min Scan# 3178

Delta R.T. -0.020 min

Lab File: VL042089.D

Acq: 03 Mar 2025 21:31

Tgt Ion: 95 Resp: 205488

Ion Ratio Lower Upper

95 100

174 63.4 51.8 77.6

175 4.6 3.9 5.9

