

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100825\
 Data File : VL043069.D
 Acq On : 08 Oct 2025 21:36
 Operator : SY/MD
 Sample : QC100684 CAN 10595
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC100684 CAN 10595

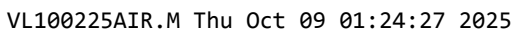
Quant Time: Oct 09 01:24:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Oct 03 08:23:34 2025
 Response via : Initial Calibration

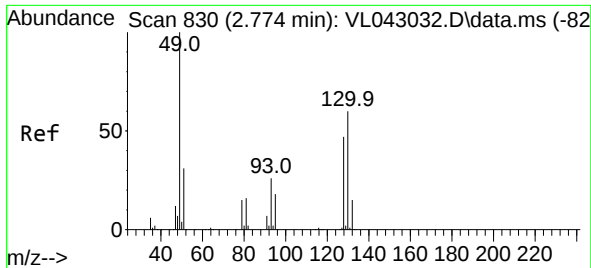
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.784	49	172613	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	470312	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.875	117	368197	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	257798	9.719	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	1731	0.060	ppbv #	78
3) Chlorodifluoromethane	1.476	51	2596	0.092	ppbv #	80
4) Chloromethane	1.531	50	748	0.070	ppbv	92
9) Propene	1.489	41	389	0.034	ppbv #	40
11) Trichlorofluoromethane	1.874	101	995	0.033	ppbv #	78
13) Ethanol	1.431	45	311365	755.916	ppbv	87
15) Acetone	1.835	43	11711	0.485	ppbv #	87
16) 1,3-Butadiene	1.618	39	462	0.046	ppbv #	11
17) tert-Butyl alcohol	2.042	59	908	0.036	ppbv #	65
19) Isopropyl Alcohol	1.431	45	311365	26.889	ppbv #	25
20) Methylene Chloride	2.059	84	14735	1.397	ppbv	95
23) Vinyl Acetate	2.450	43	812	0.158	ppbv #	1
25) Ethyl Acetate	2.822	43	14836	0.245	ppbv #	86
26) Hexane	2.822	57	14001	0.600	ppbv #	43
34) 2-Butanone	2.557	43	1569	0.049	ppbv	100
39) 1,2-Dichloropropane	3.949	63	118668	7.125	ppbv #	22
79) Naphthalene	13.513	128	98	0.236	ppbv #	69
80) Naphthalene,2-methyl-	14.474	142	94	0.666	ppbv #	55

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

Quant Time: Oct 09 01:24:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Oct 03 08:23:34 2025
Response via : Initial Calibration

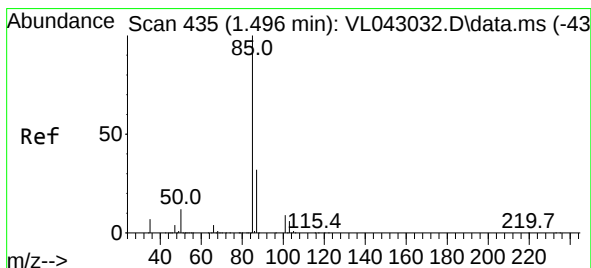
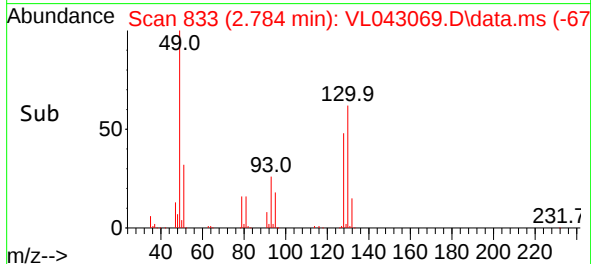
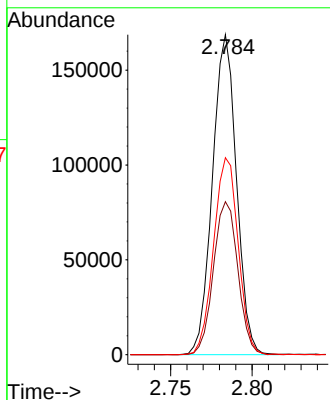
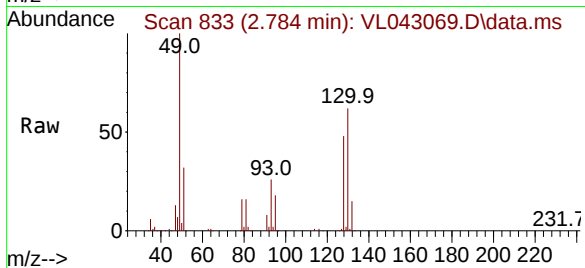




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. 0.010 min
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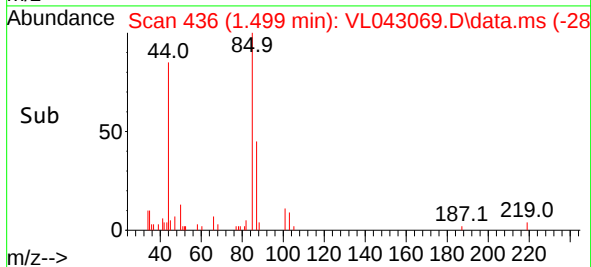
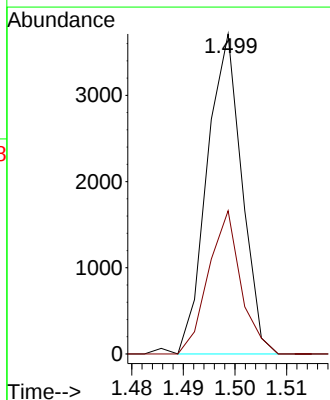
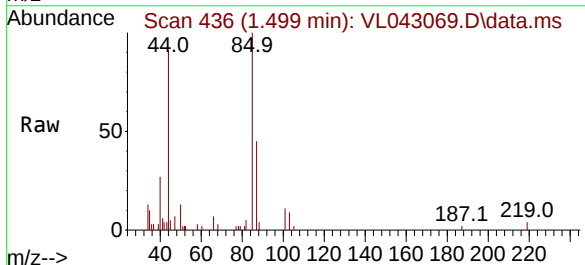
Instrument :
MSVOA_L
ClientSampleId :
QC100684 CAN 10595

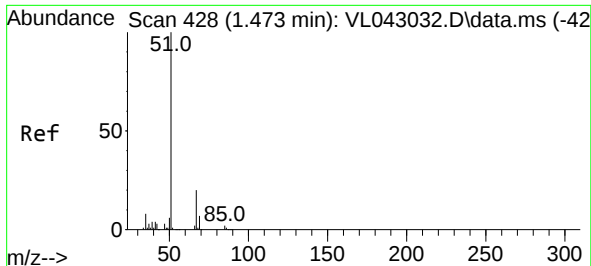
Tgt Ion: 49 Resp: 172613
Ion Ratio Lower Upper
49 100
128 48.8 24.1 72.2
130 63.1 31.4 94.3



#2
Dichlorodifluoromethane
Concen: 0.060 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043069.D
Acq: 08 Oct 2025 21:36

Tgt Ion: 85 Resp: 1731
Ion Ratio Lower Upper
85 100
87 44.8 25.8 38.6#

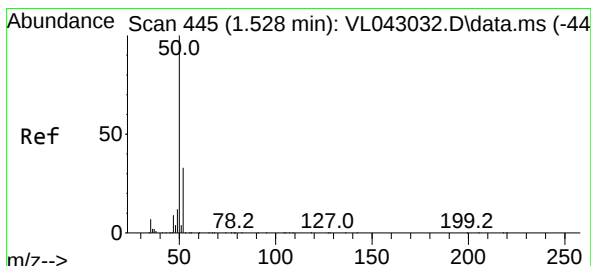
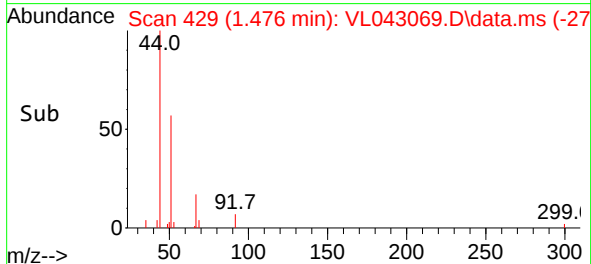
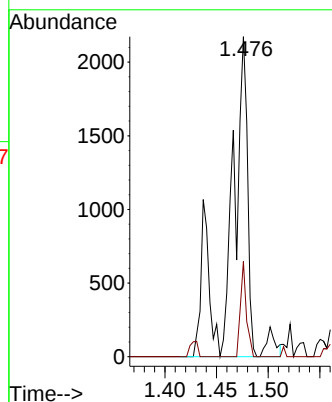
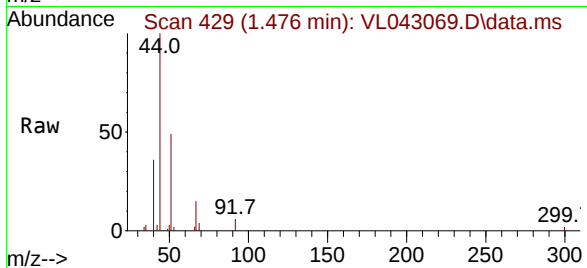




#3
Chlorodifluoromethane
Concen: 0.092 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043069.D
Acq: 08 Oct 2025 21:36

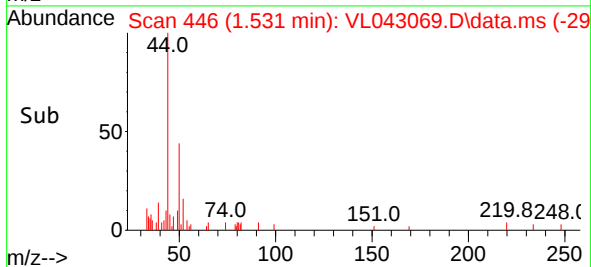
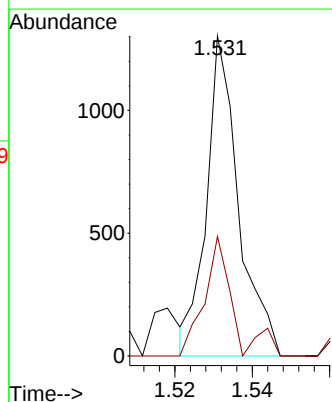
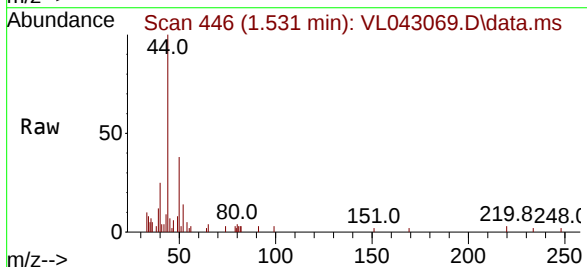
Instrument :
MSVOA_L
ClientSampleId :
QC100684 CAN 10595

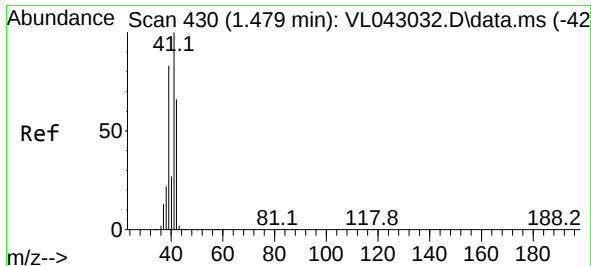
Tgt Ion: 51 Resp: 2596
Ion Ratio Lower Upper
51 100
67 9.9 15.1 22.7#



#4
Chloromethane
Concen: 0.070 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL043069.D
Acq: 08 Oct 2025 21:36

Tgt Ion: 50 Resp: 748
Ion Ratio Lower Upper
50 100
52 37.4 26.2 39.2

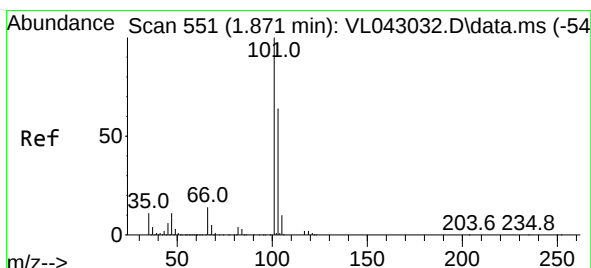
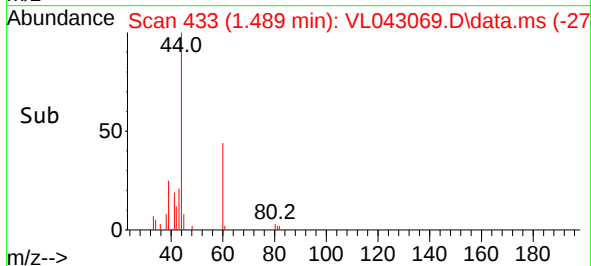
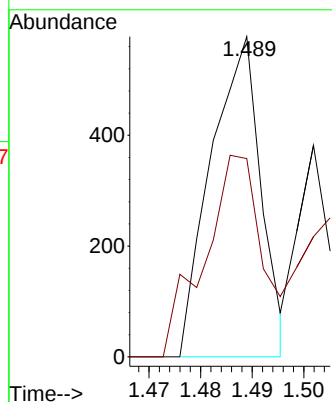
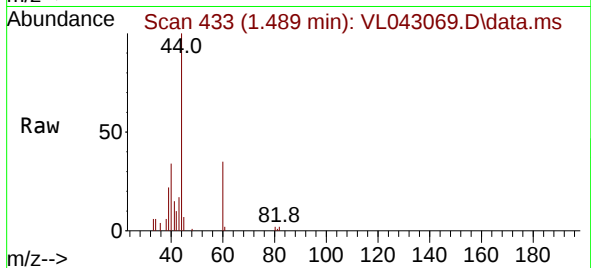




#9
Propene
Concen: 0.034 ppbv
RT: 1.489 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL043069.D
Acq: 08 Oct 2025 21:36

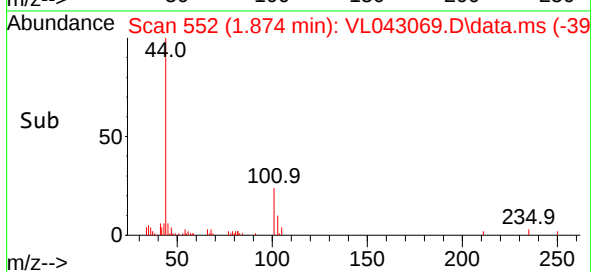
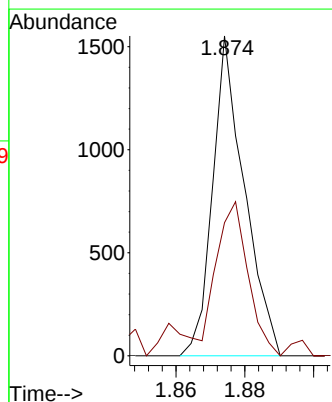
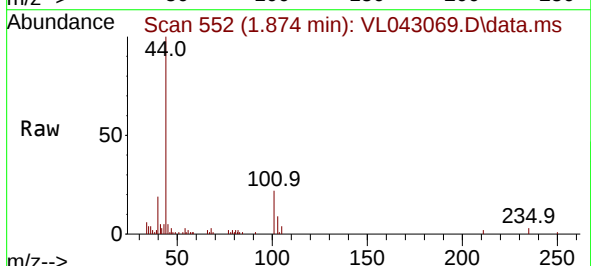
Instrument :
MSVOA_L
ClientSampleId :
QC100684 CAN 10595

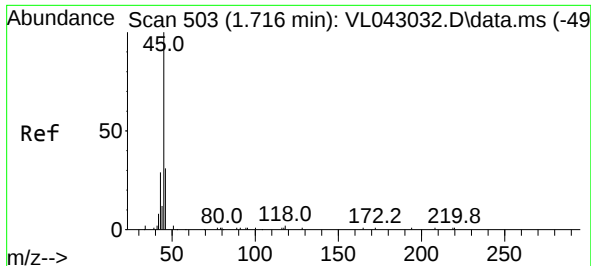
Tgt Ion: 41 Resp: 389
Ion Ratio Lower Upper
41 100
42 114.9 53.3 79.9#



#11
Trichlorofluoromethane
Concen: 0.033 ppbv
RT: 1.874 min Scan# 552
Delta R.T. 0.003 min
Lab File: VL043069.D
Acq: 08 Oct 2025 21:36

Tgt Ion: 101 Resp: 995
Ion Ratio Lower Upper
101 100
103 46.4 51.1 76.7#

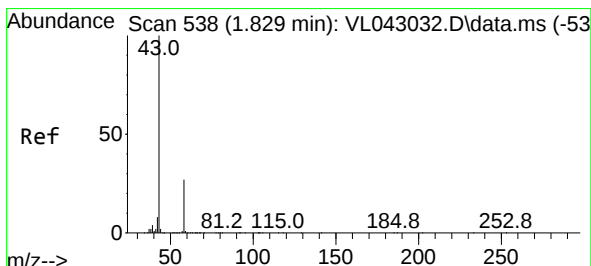
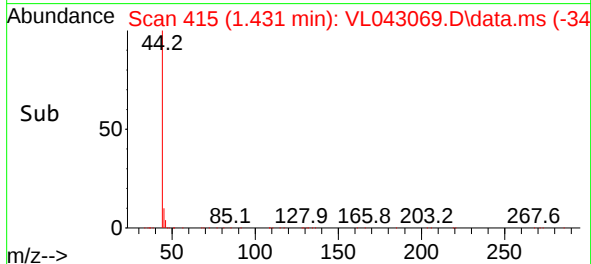
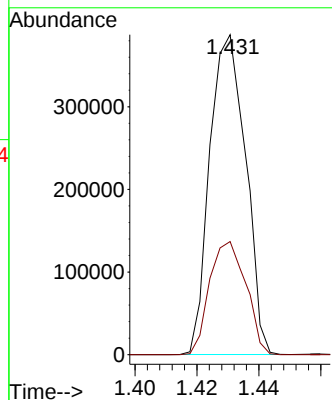
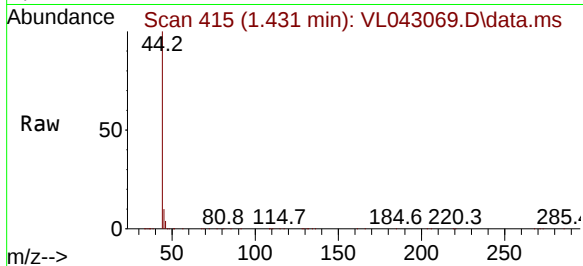




#13
Ethanol
Concen: 755.916 ppbv
RT: 1.431 min Scan# 41
Delta R.T. -0.285 min
Lab File: VL043069.D
Acq: 08 Oct 2025 21:36

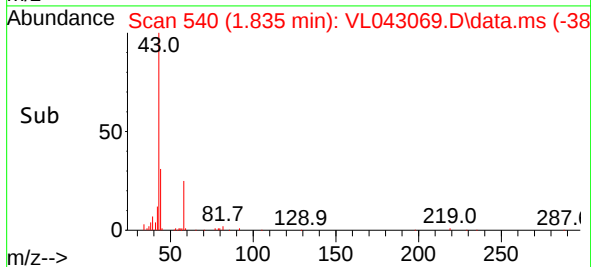
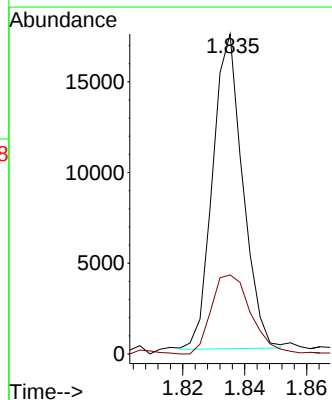
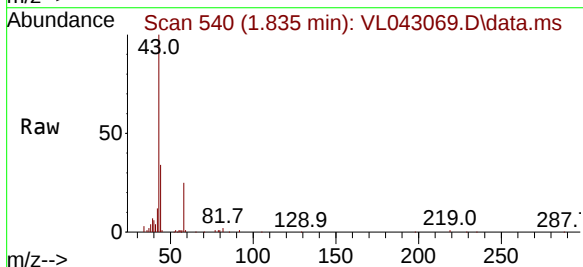
Instrument :
MSVOA_L
ClientSampleId :
QC100684 CAN 10595

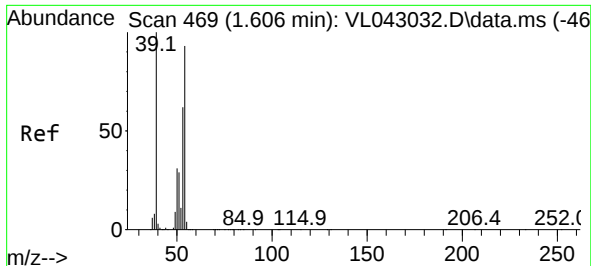
Tgt Ion: 45 Resp: 311365
Ion Ratio Lower Upper
45 100
46 35.9 17.8 71.4



#15
Acetone
Concen: 0.485 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.006 min
Lab File: VL043069.D
Acq: 08 Oct 2025 21:36

Tgt Ion: 43 Resp: 11711
Ion Ratio Lower Upper
43 100
58 34.5 22.2 33.4#

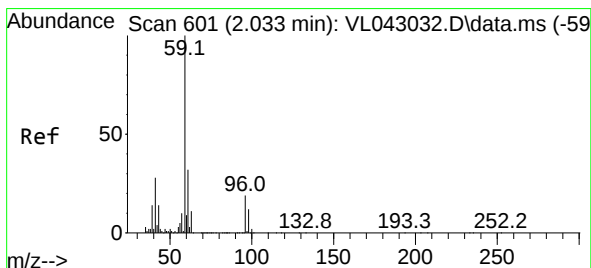
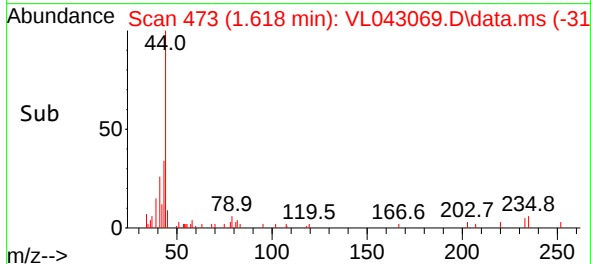
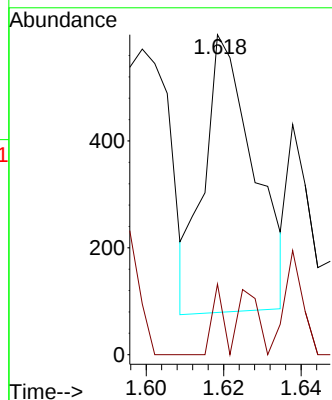
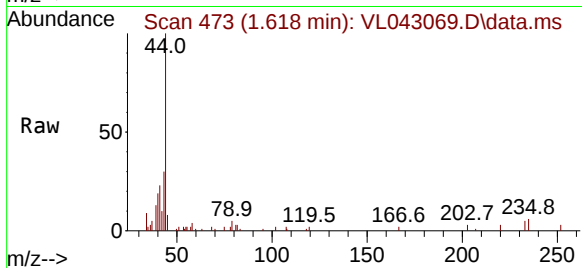




#16
1,3-Butadiene
Concen: 0.046 ppbv
RT: 1.618 min Scan# 41
Delta R.T. 0.013 min
Lab File: VL043069.D
Acq: 08 Oct 2025 21:36

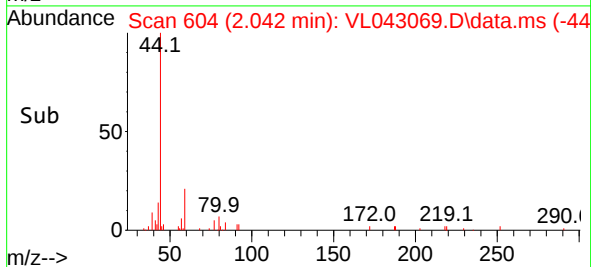
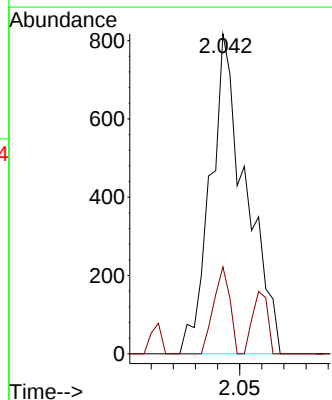
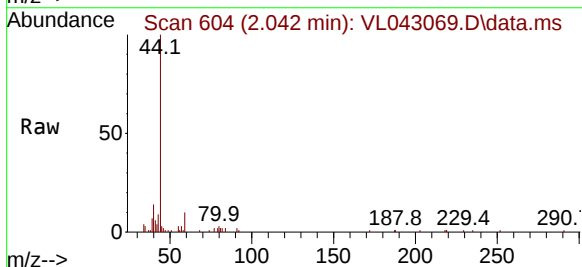
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MSVOA_L
ClientSampleId :
QC100684 CAN 10595

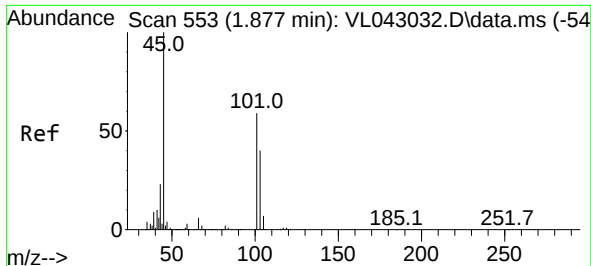
Tgt Ion: 39 Resp: 462
Ion Ratio Lower Upper
39 100
54 0.0 61.4 92.2#



#17
tert-Butyl alcohol
Concen: 0.036 ppbv
RT: 2.042 min Scan# 604
Delta R.T. 0.010 min
Lab File: VL043069.D
Acq: 08 Oct 2025 21:36

Tgt Ion: 59 Resp: 908
Ion Ratio Lower Upper
59 100
57 23.6 8.5 12.7#





#19

Isopropyl Alcohol

Concen: 26.889 ppbv

RT: 1.431 min Scan# 415

Delta R.T. -0.447 min

Lab File: VL043069.D

Acq: 08 Oct 2025 21:36

Instrument :

MSVOA_1

ClientSampleId :

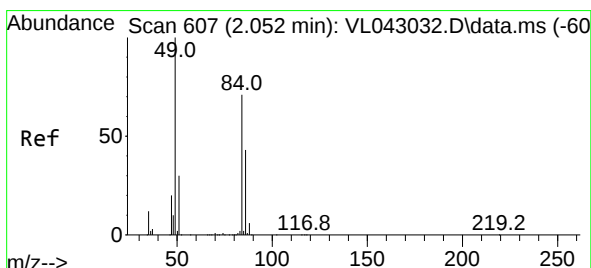
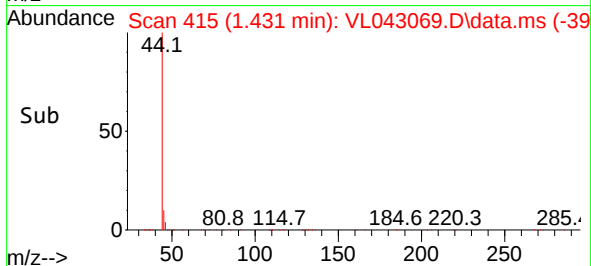
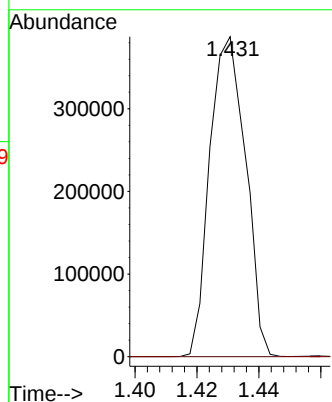
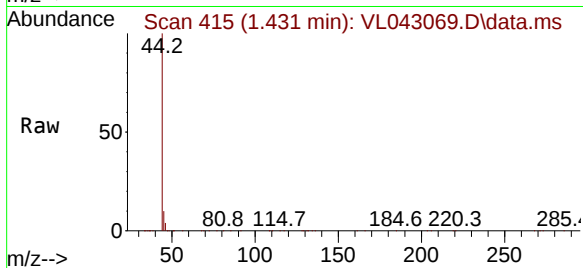
QC100684 CAN 10595

Tgt Ion: 45 Resp: 311365

Ion Ratio Lower Upper

45 100

58 0.0 42.3 63.5#



#20

Methylene Chloride

Concen: 1.397 ppbv

RT: 2.059 min Scan# 609

Delta R.T. 0.006 min

Lab File: VL043069.D

Acq: 08 Oct 2025 21:36

Tgt Ion: 84 Resp: 14735

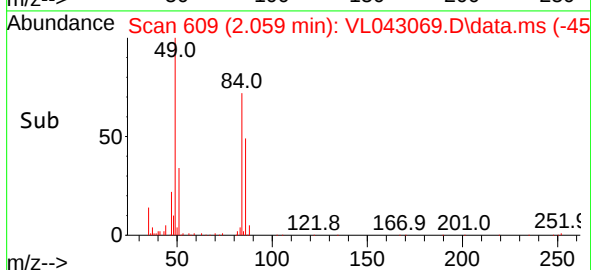
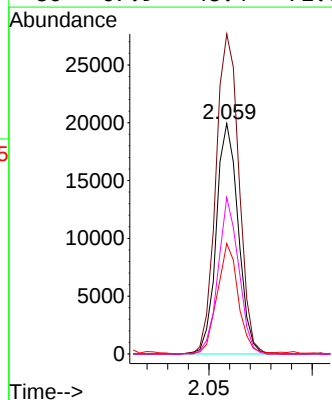
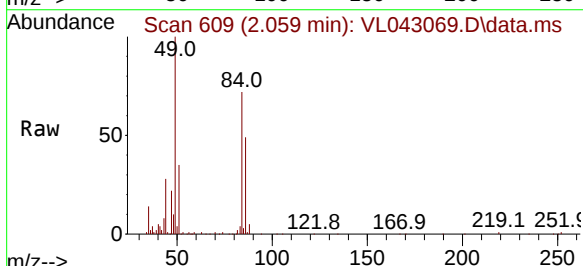
Ion Ratio Lower Upper

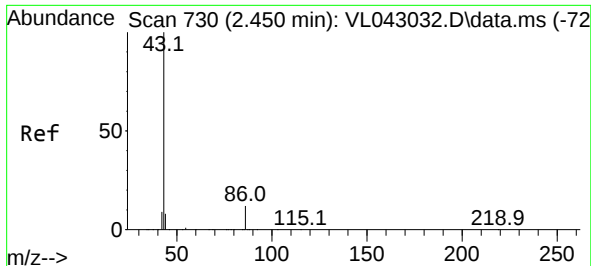
84 100

49 138.8 112.5 168.7

51 47.9 34.2 51.2

86 67.9 48.4 72.6

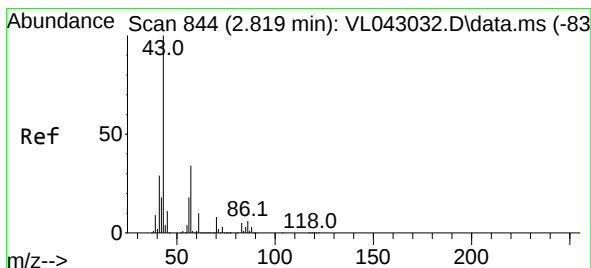
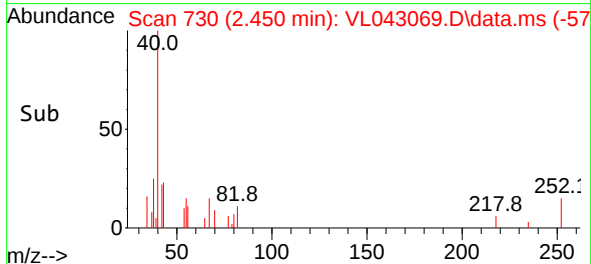
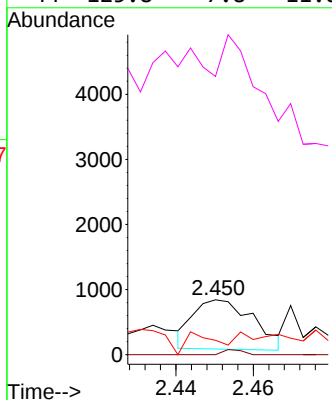
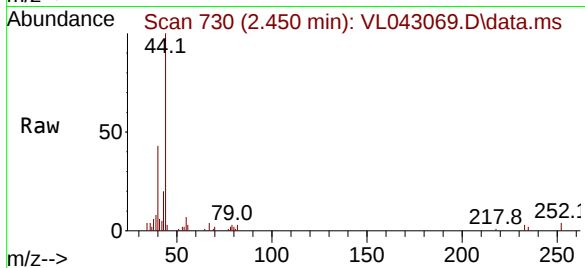




#23
 Vinyl Acetate
 Concen: 0.158 ppbv
 RT: 2.450 min Scan# 71
 Delta R.T. -0.000 min
 Lab File: VL043069.D
 Acq: 08 Oct 2025 21:36

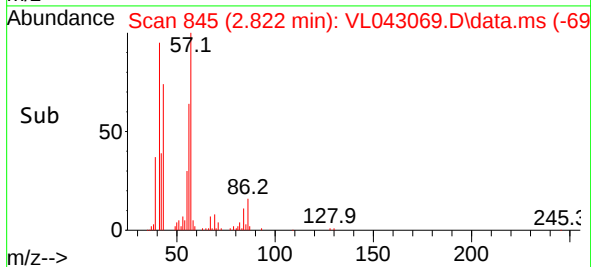
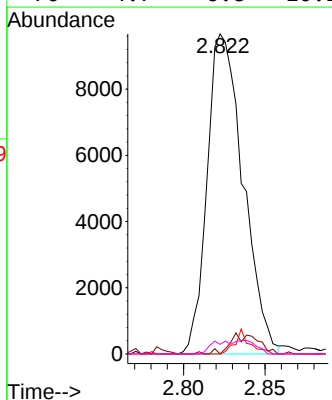
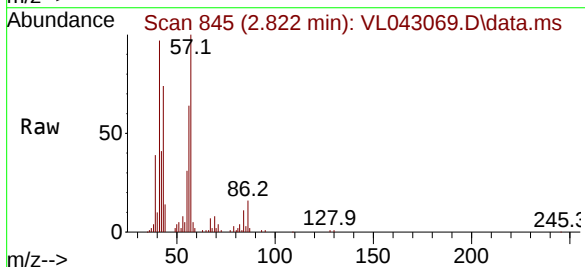
Instrument :
 MSVOA_1
 ClientSampleId :
 QC100684 CAN 10595

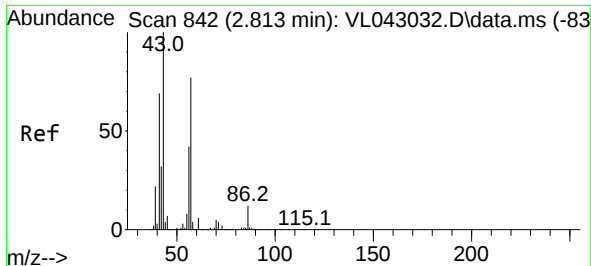
Tgt Ion:	43	Resp:	812
Ion	Ratio	Lower	Upper
43	100		
86	0.0	7.5	11.3#
42	40.4	8.4	12.6#
44	125.8	7.8	11.8#



#25
 Ethyl Acetate
 Concen: 0.245 ppbv
 RT: 2.822 min Scan# 845
 Delta R.T. 0.003 min
 Lab File: VL043069.D
 Acq: 08 Oct 2025 21:36

Tgt Ion:	43	Resp:	14836
Ion	Ratio	Lower	Upper
43	100		
45	5.0	8.3	12.5#
61	3.1	7.5	11.3#
70	4.7	6.8	10.2#

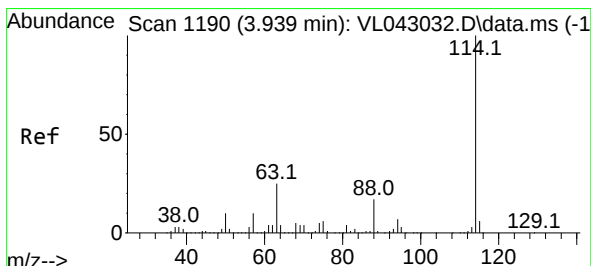
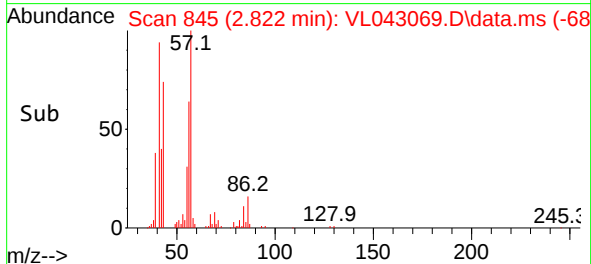
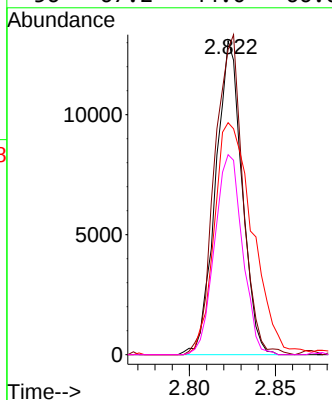
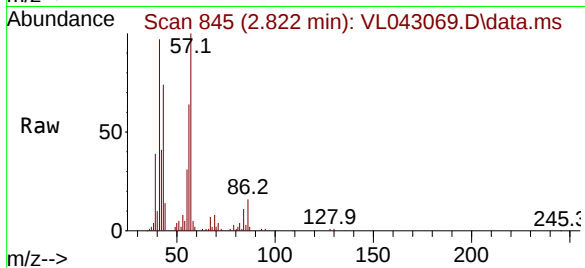




#26
Hexane
Concen: 0.600 ppbv
RT: 2.822 min Scan# 84
Delta R.T. 0.010 min
Lab File: VL043069.D
Acq: 08 Oct 2025 21:36

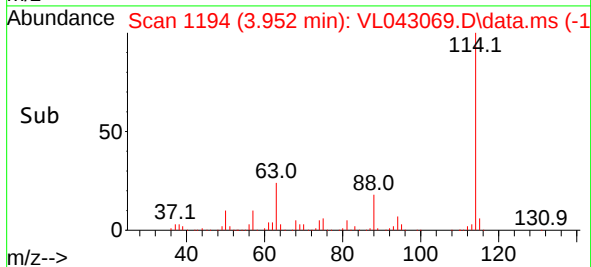
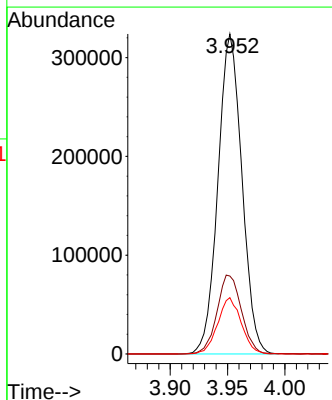
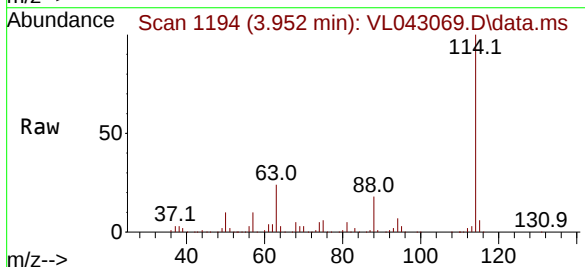
Instrument :
MSVOA_L
ClientSampleId :
QC100684 CAN 10595

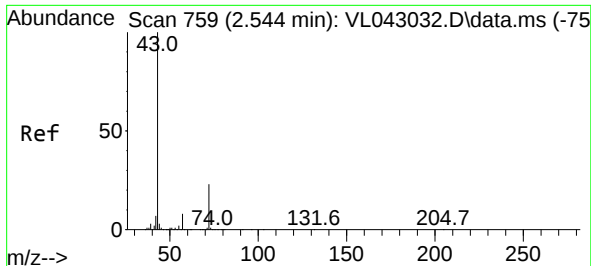
Tgt Ion: 57 Resp: 14001
Ion Ratio Lower Upper
57 100
41 108.1 76.1 114.1
43 108.5 201.4 302.0#
56 67.2 44.0 66.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.013 min
Lab File: VL043069.D
Acq: 08 Oct 2025 21:36

Tgt Ion:114 Resp: 470312
Ion Ratio Lower Upper
114 100
63 25.2 19.4 29.2
88 17.3 13.9 20.9

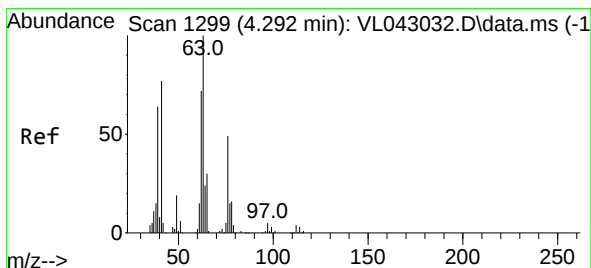
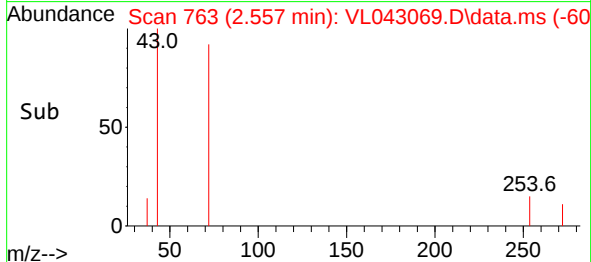
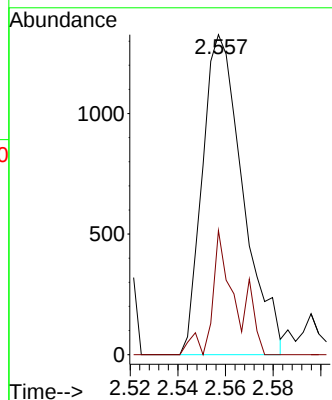
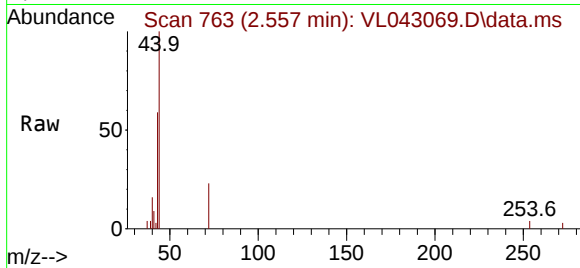




#34
2-Butanone
Concen: 0.049 ppbv
RT: 2.557 min Scan# 71
Delta R.T. 0.013 min
Lab File: VL043069.D
Acq: 08 Oct 2025 21:36

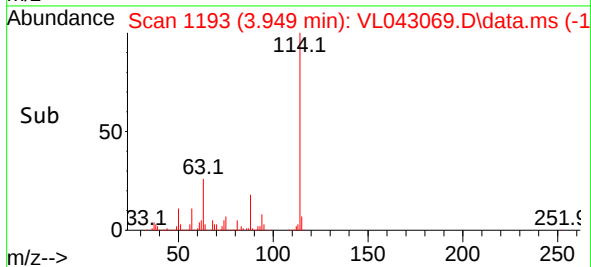
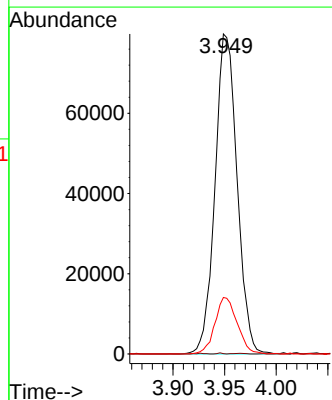
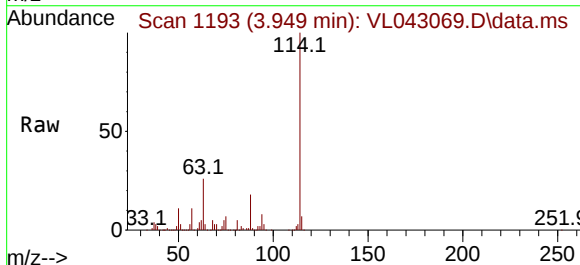
Instrument :
MSVOA_L
ClientSampleId :
QC100684 CAN 10595

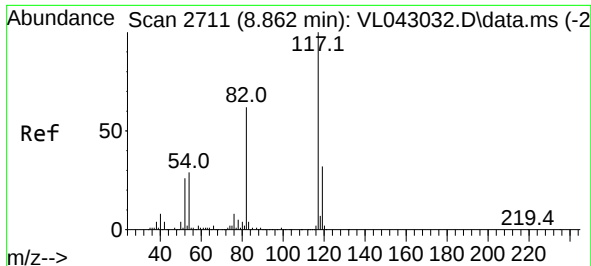
Tgt Ion: 43 Resp: 1569
Ion Ratio Lower Upper
43 100
72 22.9 18.4 27.6



#39
1,2-Dichloropropane
Concen: 7.125 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.343 min
Lab File: VL043069.D
Acq: 08 Oct 2025 21:36

Tgt Ion: 63 Resp: 118668
Ion Ratio Lower Upper
63 100
41 0.1 61.6 92.4#
62 17.7 58.1 87.1#

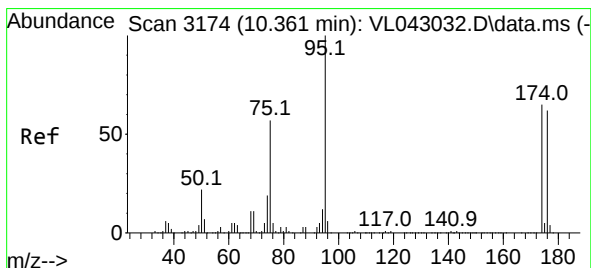
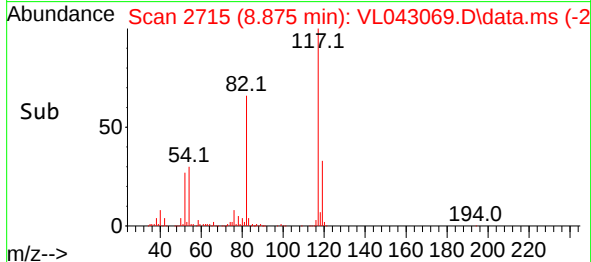
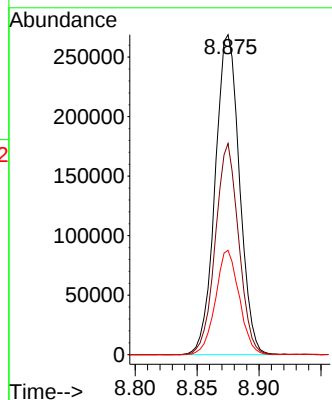
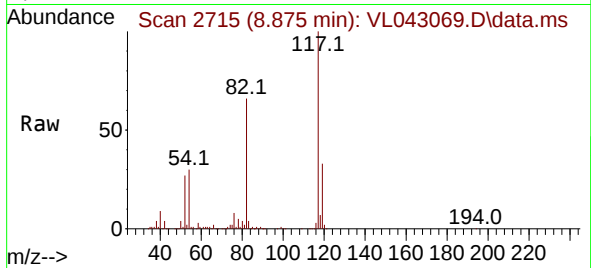




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL043069.D
Acq: 08 Oct 2025 21:36

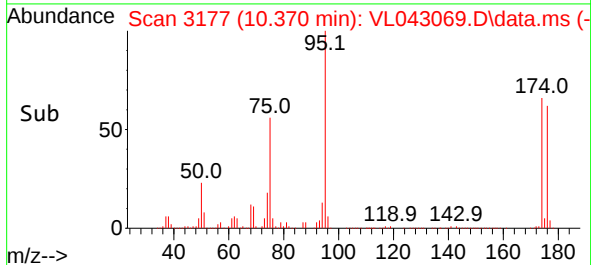
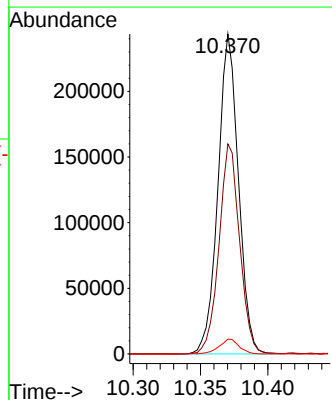
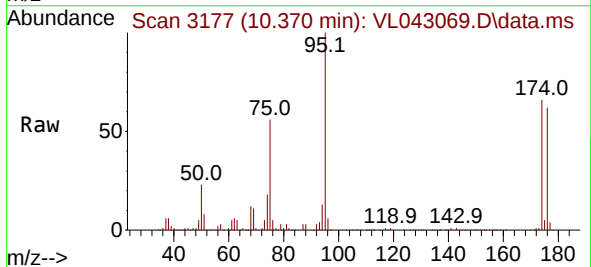
Instrument :
MSVOA_L
ClientSampleId :
QC100684 CAN 10595

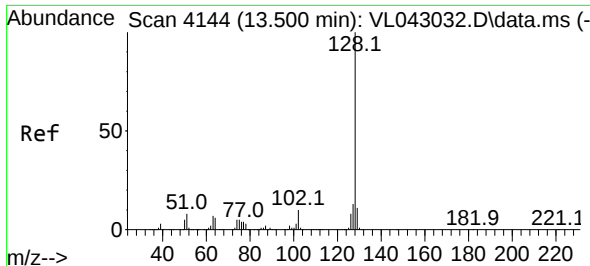
Tgt Ion:117 Resp: 368197
Ion Ratio Lower Upper
117 100
82 63.3 53.0 79.6
119 32.0 25.4 38.2



#68
1-Bromo-4-Fluorobenzene
Concen: 9.719 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. 0.010 min
Lab File: VL043069.D
Acq: 08 Oct 2025 21:36

Tgt Ion: 95 Resp: 257798
Ion Ratio Lower Upper
95 100
174 66.2 52.3 78.5
175 4.5 3.8 5.8

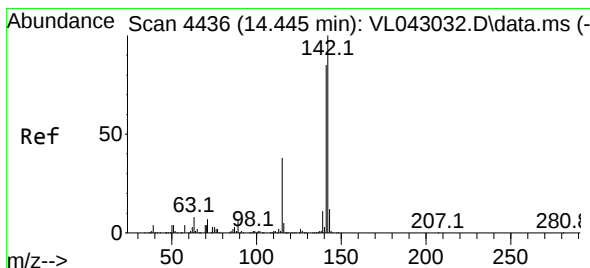
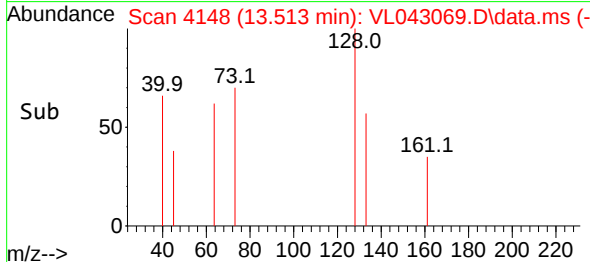
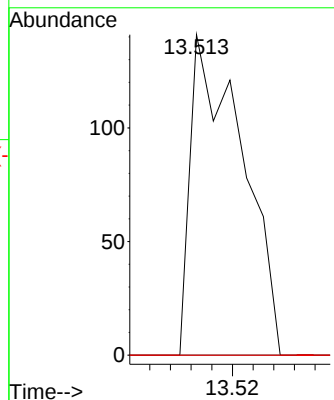
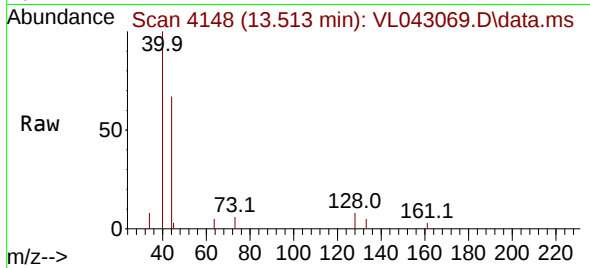




#79
Naphthalene
Concen: 0.236 ppbv
RT: 13.513 min Scan# 4144
Delta R.T. 0.013 min
Lab File: VL043069.D
Acq: 08 Oct 2025 21:36

Instrument :
MSVOA_L
ClientSampleId :
QC100684 CAN 10595

Tgt Ion:128 Resp: 98
Ion Ratio Lower Upper
128 100
127 0.0 10.6 16.0#
129 0.0 8.8 13.2#



#80
Naphthalene,2-methyl-
Concen: 0.666 ppbv
RT: 14.474 min Scan# 4445
Delta R.T. 0.029 min
Lab File: VL043069.D
Acq: 08 Oct 2025 21:36

Tgt Ion:142 Resp: 94
Ion Ratio Lower Upper
142 100
141 27.7 66.6 100.0#
115 31.9 30.1 45.1

