

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
 Data File : VL042079.D
 Acq On : 03 Mar 2025 16:23
 Operator : SY/MD
 Sample : Q1430-03 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

Quant Time: Mar 04 00:19:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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	2.787	49	161283	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.959	114	360438	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.878	117	301876	10.000	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	230887	9.941	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.400%

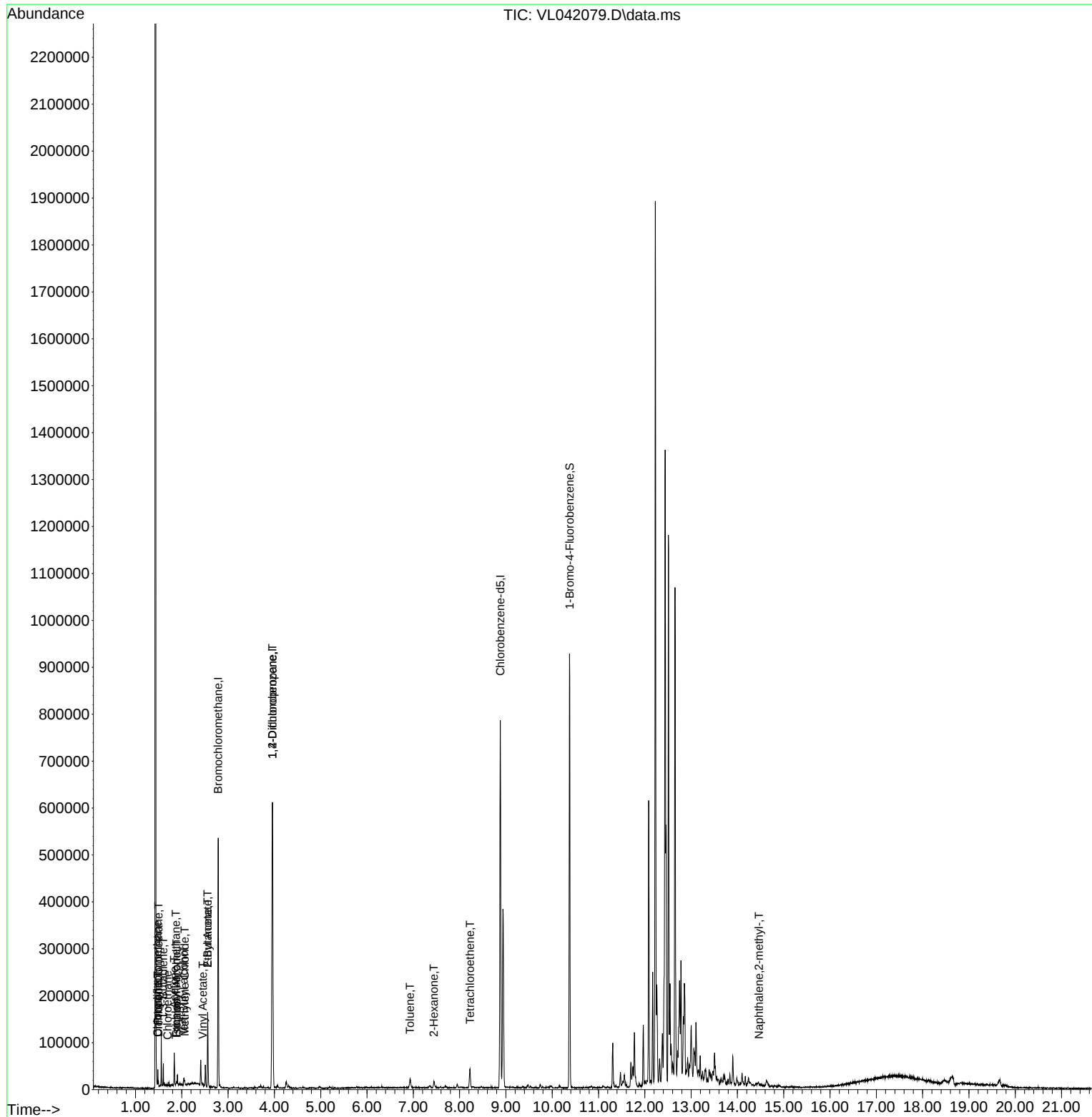
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	2670	0.159	ppbv	94
3) Chlorodifluoromethane	1.476	51	5055	0.216	ppbv #	74
7) Chloroethane	1.693	64	86	0.036	ppbv #	39
9) Propene	1.483	41	4602	0.482	ppbv	99
11) Trichlorofluoromethane	1.874	101	1044	0.062	ppbv	96
13) Ethanol	1.887	45	3291	5.429	ppbv #	33
15) Acetone	1.836	43	28261	1.984	ppbv #	66
16) 1,3-Butadiene	1.603	39	5064	0.764	ppbv #	20
17) tert-Butyl alcohol	2.043	59	5467	0.307	ppbv #	87
19) Isopropyl Alcohol	1.887	45	3291	0.402	ppbv #	1
20) Methylene Chloride	2.062	84	1402	0.260	ppbv	95
23) Vinyl Acetate	2.454	43	1779	0.178	ppbv #	79
25) Ethyl Acetate	2.557	43	101561	1.781	ppbv #	76
34) 2-Butanone	2.557	43	101561	3.617	ppbv	95
39) 1,2-Dichloropropane	3.959	63	96951	6.769	ppbv #	23
51) 2-Hexanone	7.441	43	3431	0.137	ppbv #	1
52) Tetrachloroethene	8.225	164	6663	0.516	ppbv #	87
53) Toluene	6.930	91	12131	0.288	ppbv	96
80) Naphthalene,2-methyl-	14.465	142	327	0.033	ppbv #	84

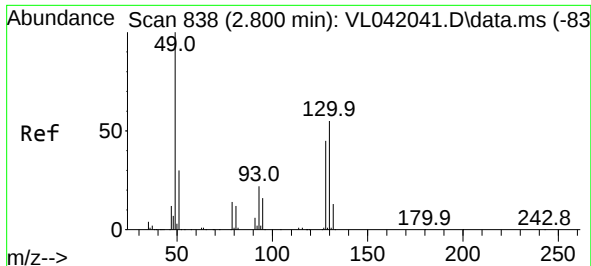
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

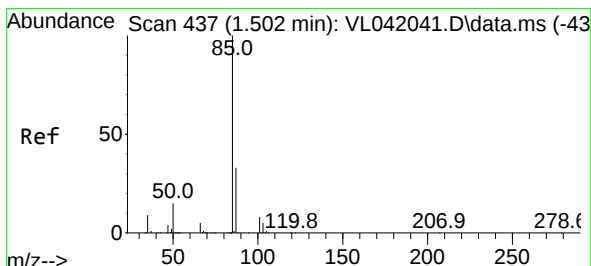
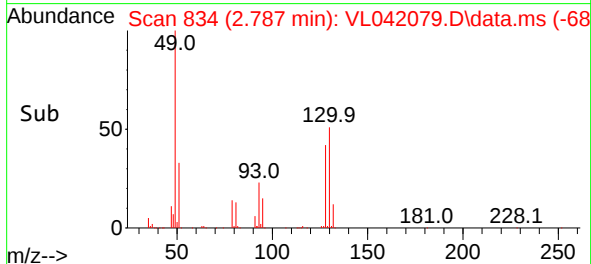
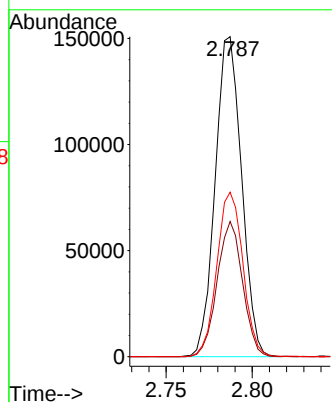
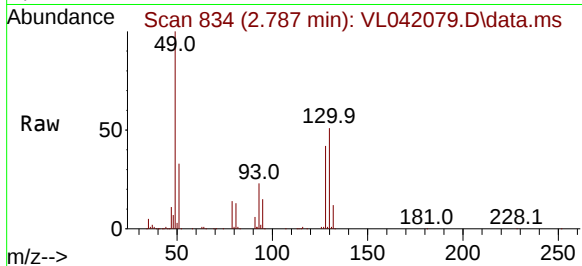




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 81
 Delta R.T. -0.013 min
 Lab File: VL042079.D
 Acq: 03 Mar 2025 16:23

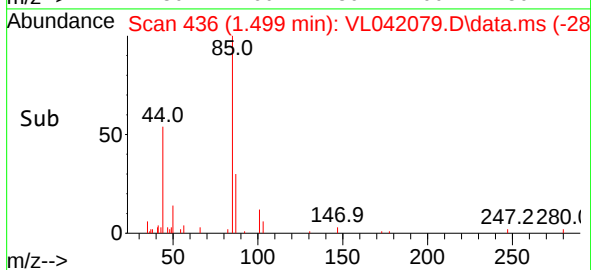
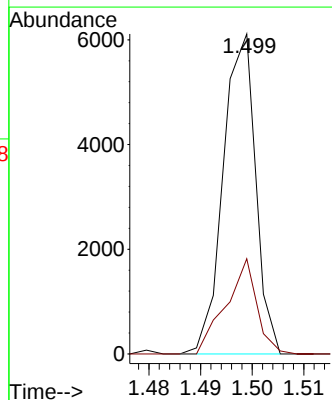
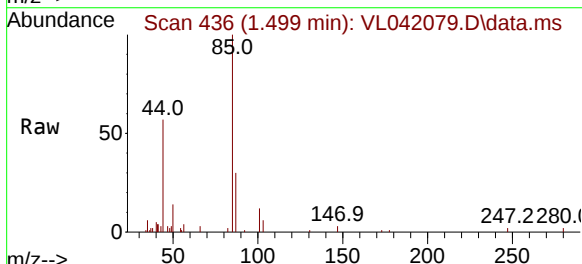
Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

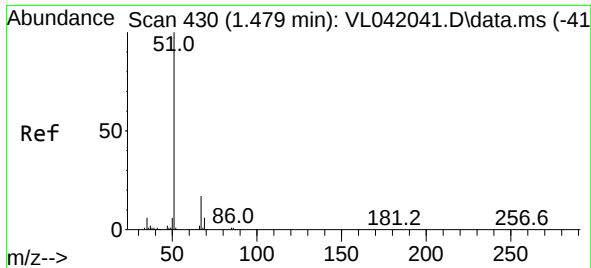
Tgt Ion: 49 Resp: 161283
 Ion Ratio Lower Upper
 49 100
 128 40.6 21.6 64.8
 130 50.8 27.8 83.4



#2
 Dichlorodifluoromethane
 Concen: 0.159 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. -0.003 min
 Lab File: VL042079.D
 Acq: 03 Mar 2025 16:23

Tgt Ion: 85 Resp: 2670
 Ion Ratio Lower Upper
 85 100
 87 29.8 26.4 39.6

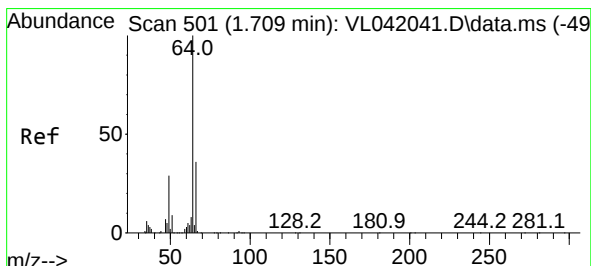
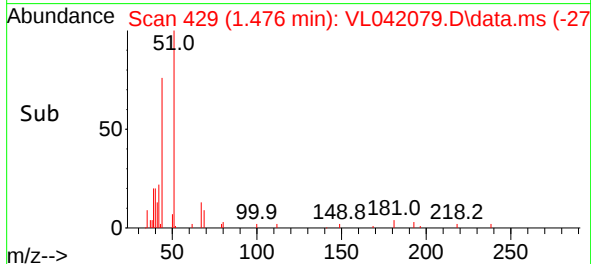
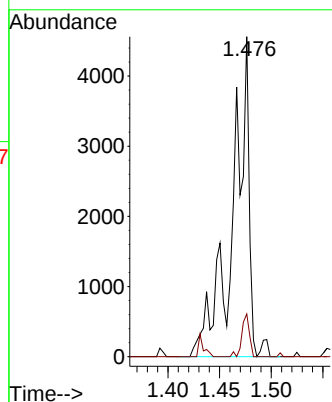
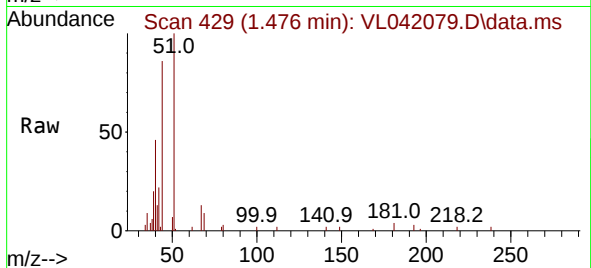




#3
Chlorodifluoromethane
Concen: 0.216 ppbv
RT: 1.476 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042079.D
Acq: 03 Mar 2025 16:23

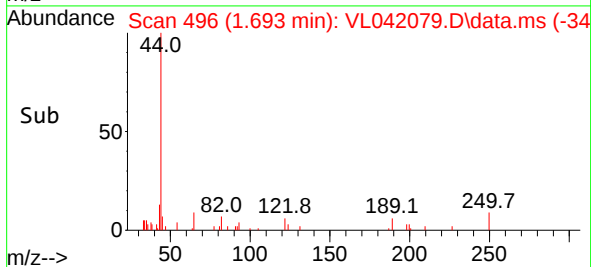
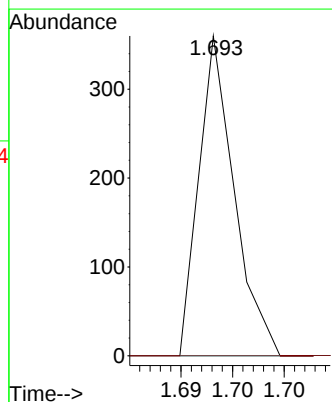
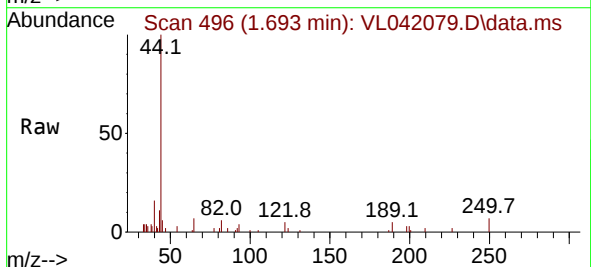
Instrument :
MSVOA_L
ClientSampleId :
SV3

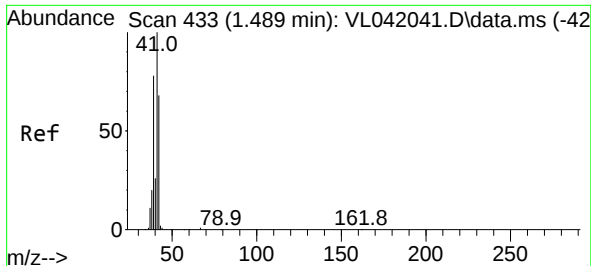
Tgt Ion: 51 Resp: 5055
Ion Ratio Lower Upper
51 100
67 6.0 13.7 20.5#



#7
Chloroethane
Concen: 0.036 ppbv
RT: 1.693 min Scan# 496
Delta R.T. -0.016 min
Lab File: VL042079.D
Acq: 03 Mar 2025 16:23

Tgt Ion: 64 Resp: 86
Ion Ratio Lower Upper
64 100
66 0.0 28.4 42.6#





#9

Propene

Concen: 0.482 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.006 min

Lab File: VL042079.D

Acq: 03 Mar 2025 16:23

Instrument :

MSVOA_L

ClientSampleId :

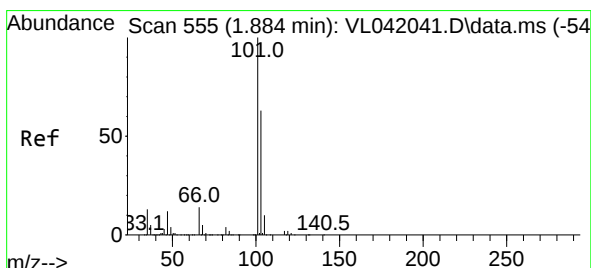
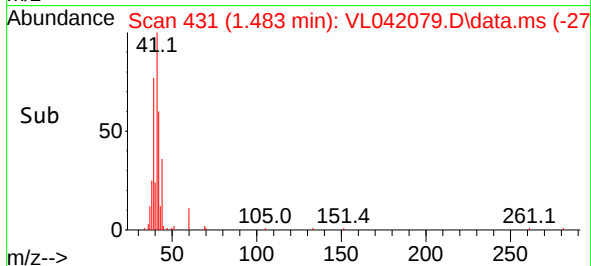
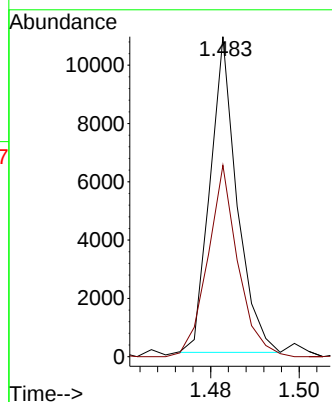
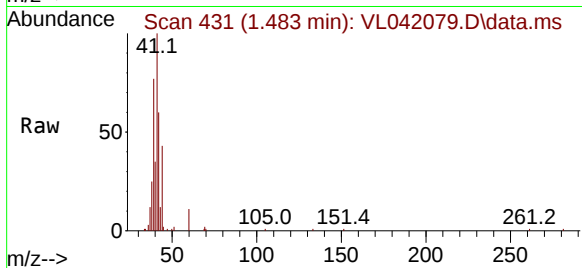
SV3

Tgt Ion: 41 Resp: 4602

Ion Ratio Lower Upper

41 100

42 68.7 55.8 83.6



#11

Trichlorofluoromethane

Concen: 0.062 ppbv

RT: 1.874 min Scan# 552

Delta R.T. -0.010 min

Lab File: VL042079.D

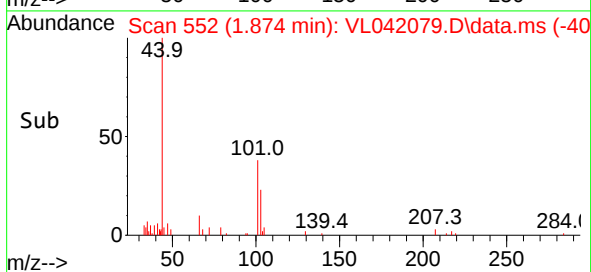
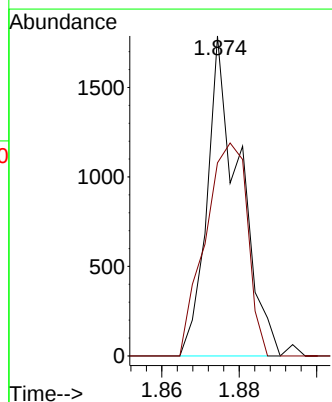
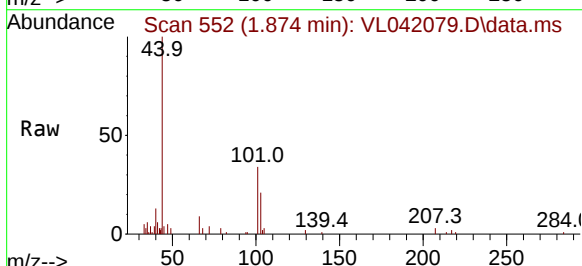
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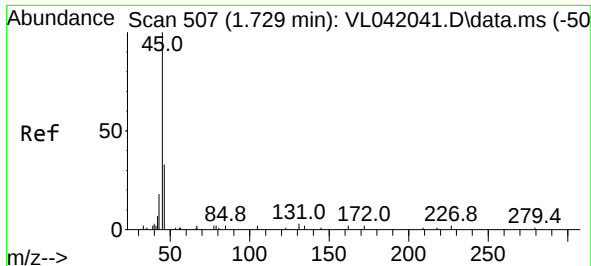
Tgt Ion:101 Resp: 1044

Ion Ratio Lower Upper

101 100

103 60.3 50.6 75.8





#13

Ethanol

Concen: 5.429 ppbv

RT: 1.887 min Scan# 51

Delta R.T. 0.159 min

Lab File: VL042079.D

Acq: 03 Mar 2025 16:23

Instrument :

MSVOA_L

ClientSampleId :

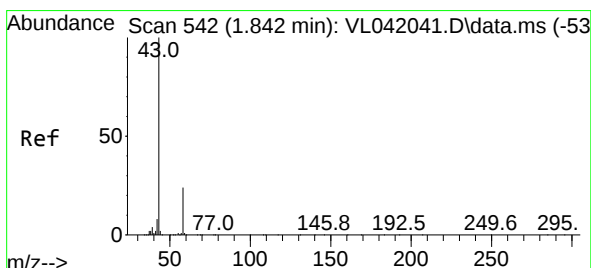
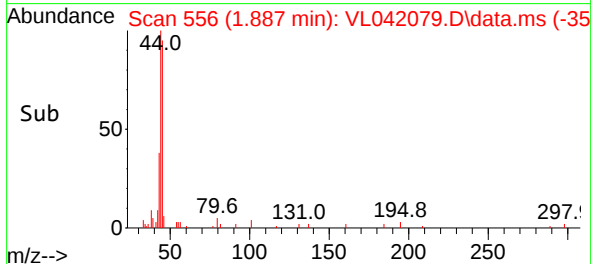
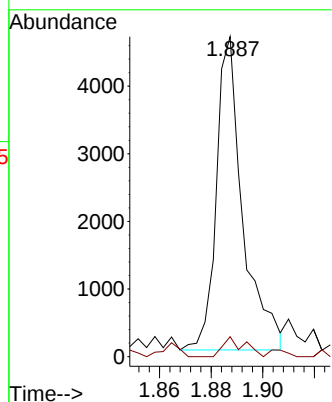
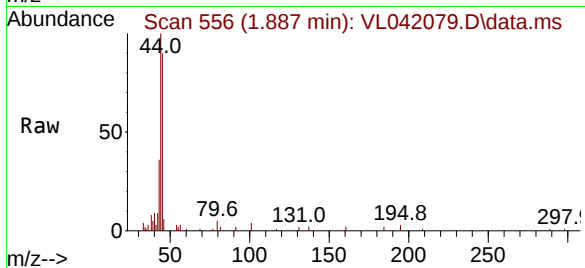
SV3

Tgt Ion: 45 Resp: 3291

Ion Ratio Lower Upper

45 100

46 0.0 17.1 68.3#



#15

Acetone

Concen: 1.984 ppbv

RT: 1.836 min Scan# 540

Delta R.T. -0.006 min

Lab File: VL042079.D

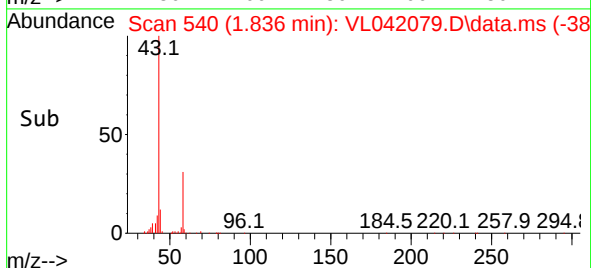
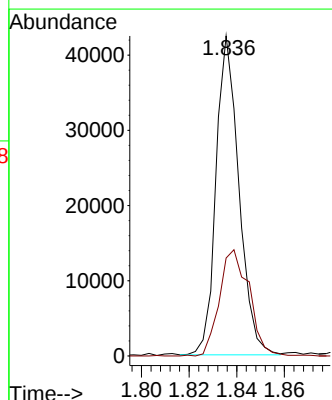
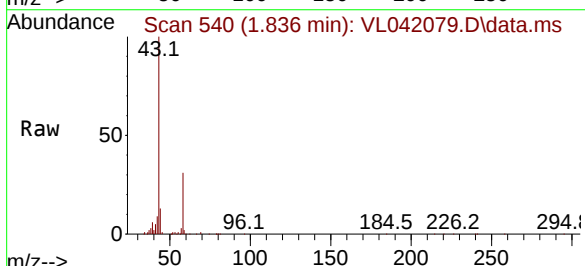
Acq: 03 Mar 2025 16:23

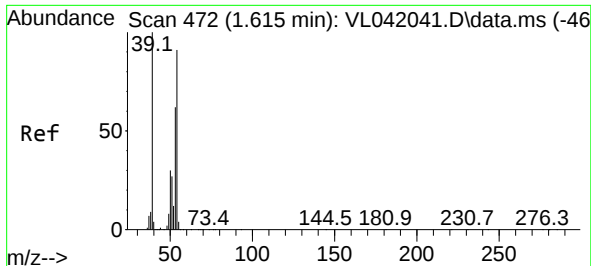
Tgt Ion: 43 Resp: 28261

Ion Ratio Lower Upper

43 100

58 43.4 20.7 31.1#

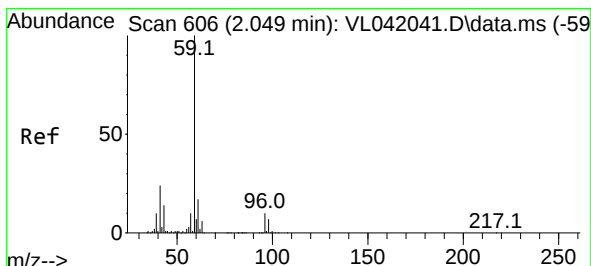
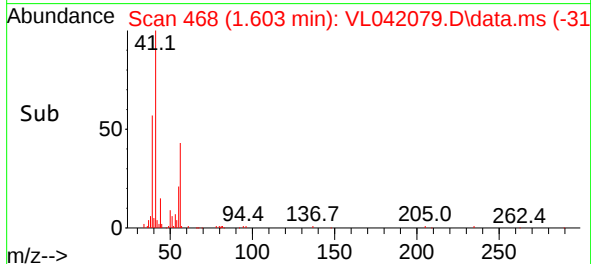
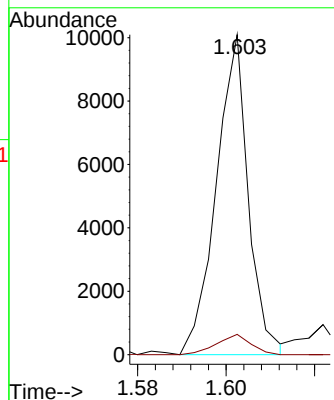
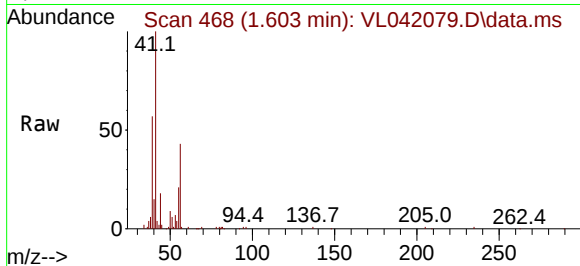




#16
1,3-Butadiene
Concen: 0.764 ppbv
RT: 1.603 min Scan# 41
Delta R.T. -0.013 min
Lab File: VL042079.D
Acq: 03 Mar 2025 16:23

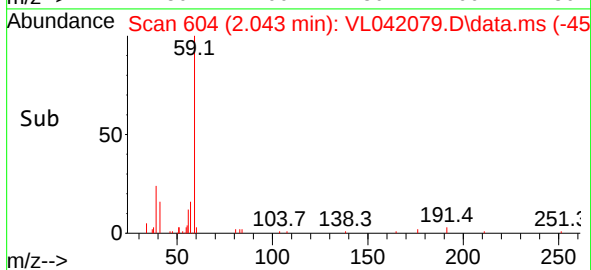
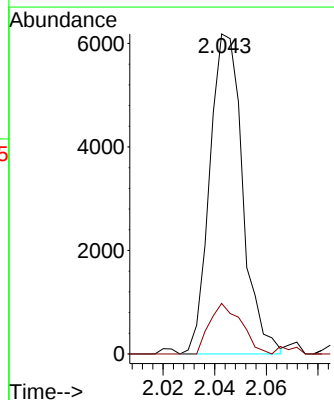
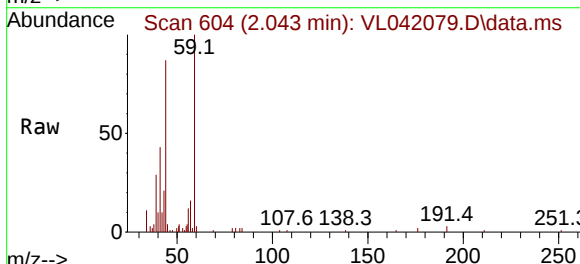
Instrument :
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ClientSampleId :
SV3

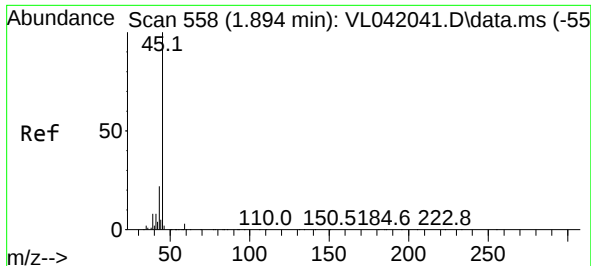
Tgt Ion: 39 Resp: 5064
Ion Ratio Lower Upper
39 100
54 6.8 59.6 89.4#



#17
tert-Butyl alcohol
Concen: 0.307 ppbv
RT: 2.043 min Scan# 604
Delta R.T. -0.006 min
Lab File: VL042079.D
Acq: 03 Mar 2025 16:23

Tgt Ion: 59 Resp: 5467
Ion Ratio Lower Upper
59 100
57 16.6 9.3 13.9#

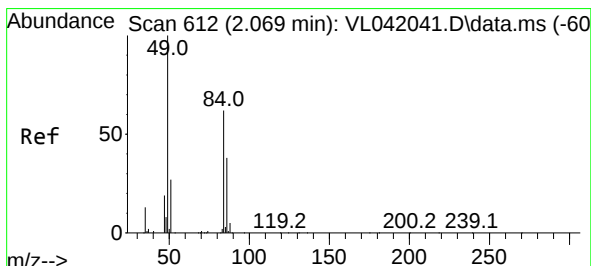
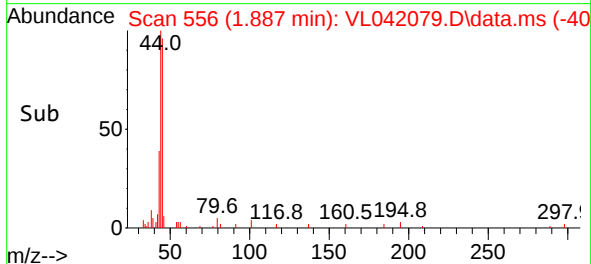
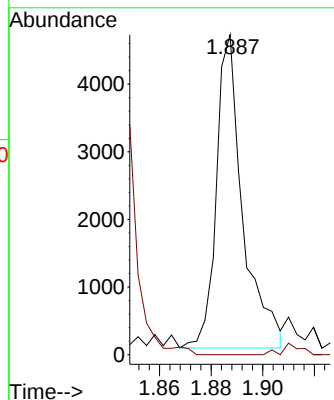
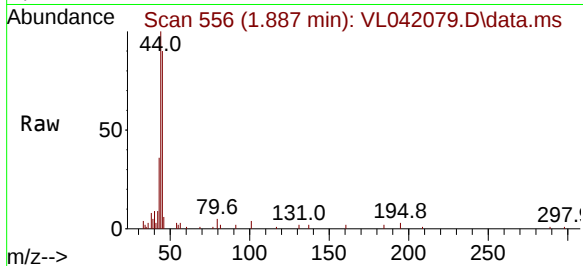




#19
Isopropyl Alcohol
Concen: 0.402 ppbv
RT: 1.887 min Scan# 51
Delta R.T. -0.006 min
Lab File: VL042079.D
Acq: 03 Mar 2025 16:23

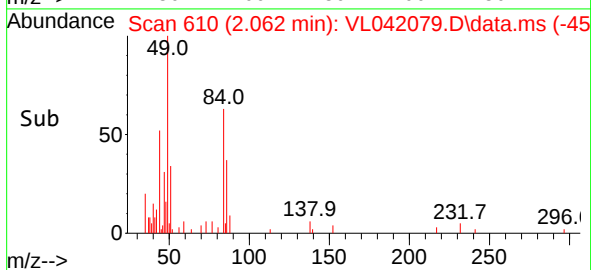
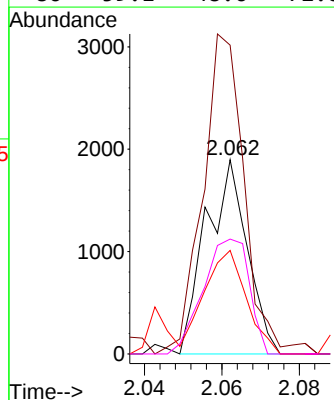
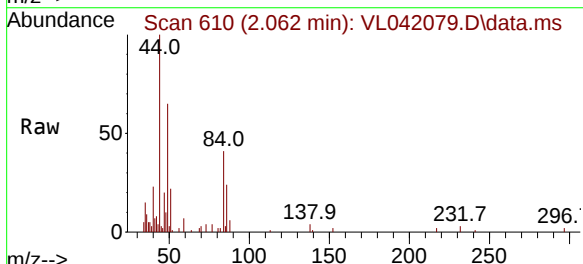
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ClientSampleId :
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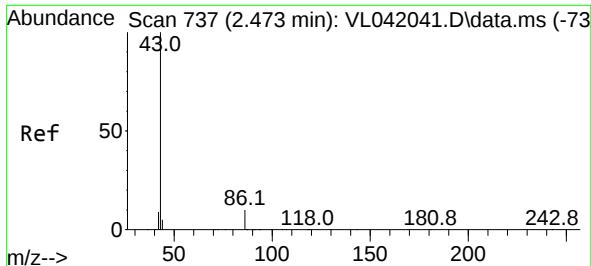
Tgt Ion: 45 Resp: 3291
Ion Ratio Lower Upper
45 100
58 373.2 35.3 52.9#



#20
Methylene Chloride
Concen: 0.260 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.006 min
Lab File: VL042079.D
Acq: 03 Mar 2025 16:23

Tgt Ion: 84 Resp: 1402
Ion Ratio Lower Upper
84 100
49 155.3 130.0 195.0
51 53.3 37.4 56.0
86 59.1 48.6 72.8

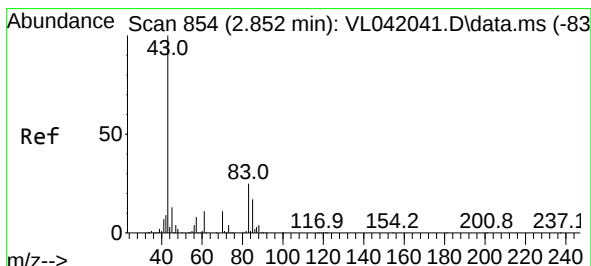
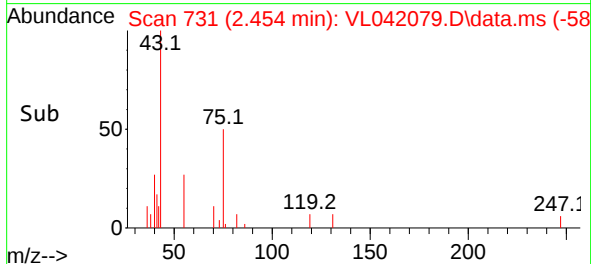
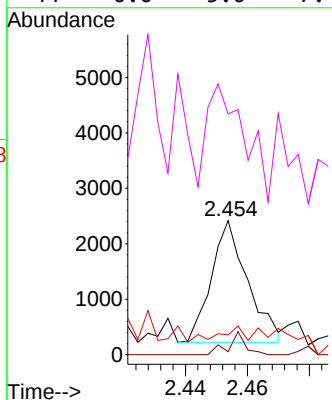
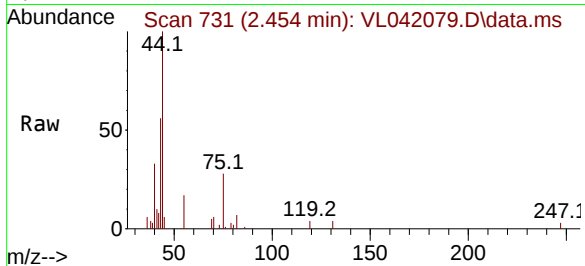




#23
 Vinyl Acetate
 Concen: 0.178 ppbv
 RT: 2.454 min Scan# 71
 Delta R.T. -0.019 min
 Lab File: VL042079.D
 Acq: 03 Mar 2025 16:23

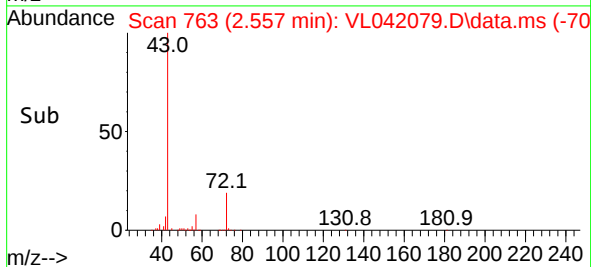
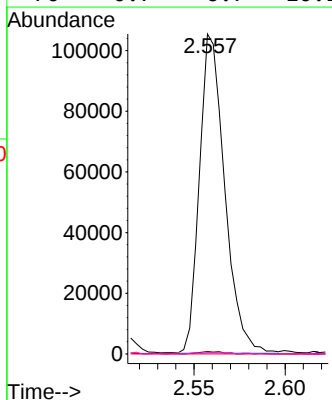
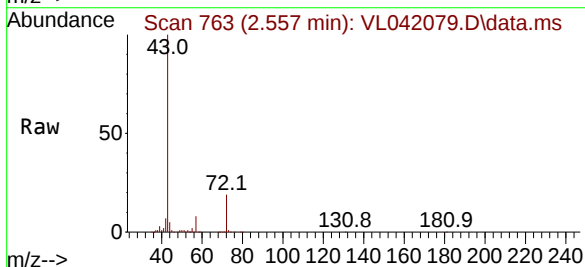
Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

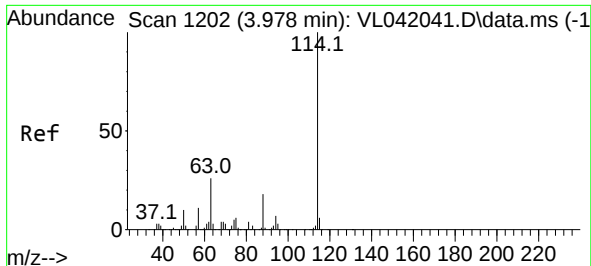
Tgt Ion:	43	Resp:	1779
Ion	Ratio	Lower	Upper
43	100		
86	2.5	7.0	10.4#
42	0.0	7.6	11.4#
44	0.0	5.0	7.4#



#25
 Ethyl Acetate
 Concen: 1.781 ppbv
 RT: 2.557 min Scan# 763
 Delta R.T. -0.295 min
 Lab File: VL042079.D
 Acq: 03 Mar 2025 16:23

Tgt Ion:	43	Resp:	101561
Ion	Ratio	Lower	Upper
43	100		
45	0.9	8.1	12.1#
61	0.0	7.2	10.8#
70	0.7	6.7	10.1#

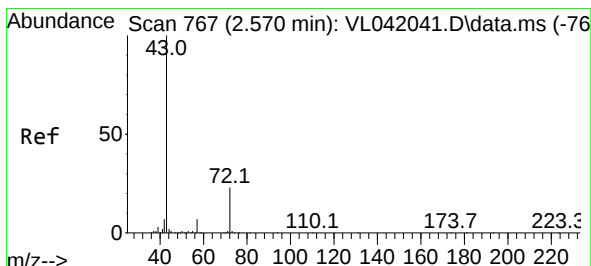
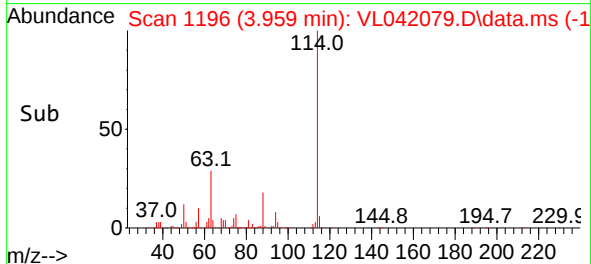
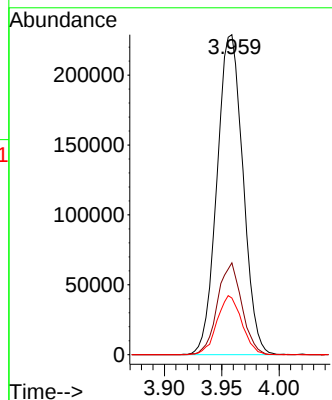
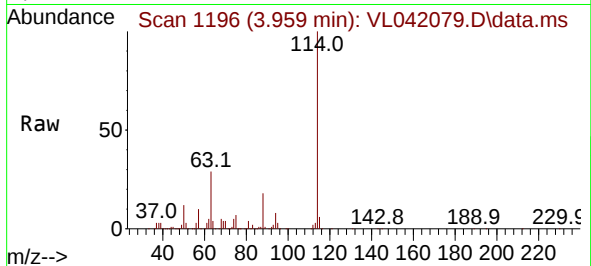




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.959 min Scan# 1196
 Delta R.T. -0.019 min
 Lab File: VL042079.D
 Acq: 03 Mar 2025 16:23

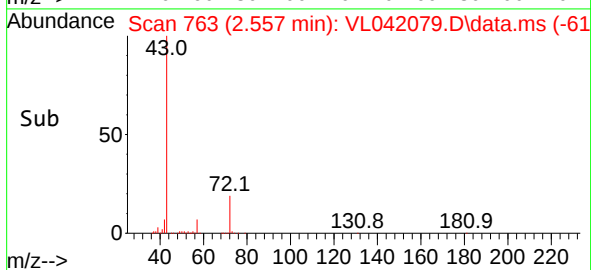
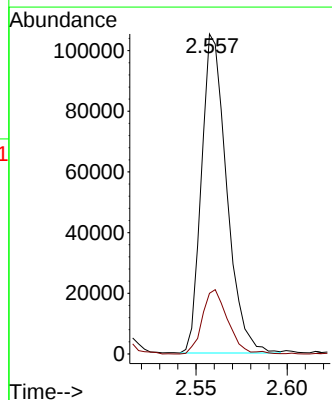
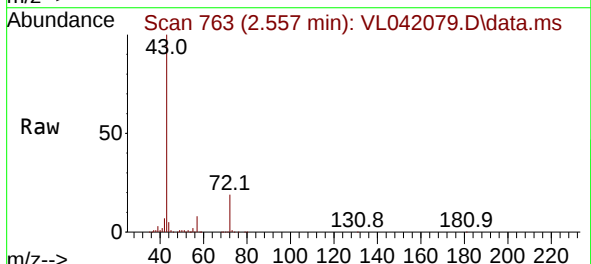
Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

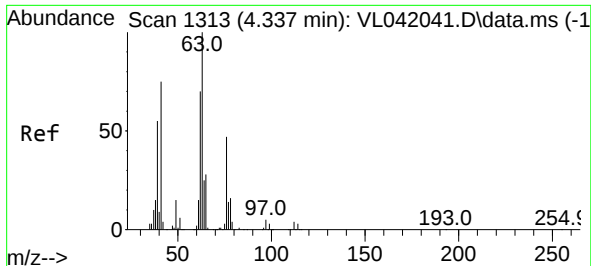
Tgt Ion:114 Resp: 360438
 Ion Ratio Lower Upper
 114 100
 63 27.0 20.1 30.1
 88 17.6 14.3 21.5



#34
 2-Butanone
 Concen: 3.617 ppbv
 RT: 2.557 min Scan# 763
 Delta R.T. -0.013 min
 Lab File: VL042079.D
 Acq: 03 Mar 2025 16:23

Tgt Ion: 43 Resp: 101561
 Ion Ratio Lower Upper
 43 100
 72 20.5 18.5 27.7





#39

1,2-Dichloropropane

Concen: 6.769 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.379 min

Lab File: VL042079.D

Acq: 03 Mar 2025 16:23

Instrument :

MSVOA_L

ClientSampleId :

SV3

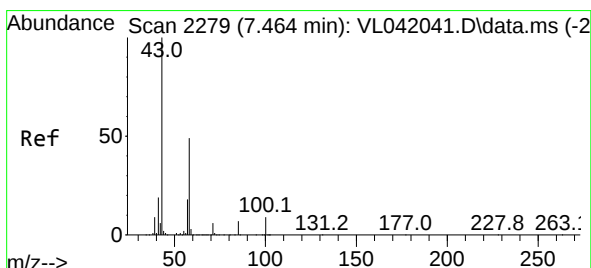
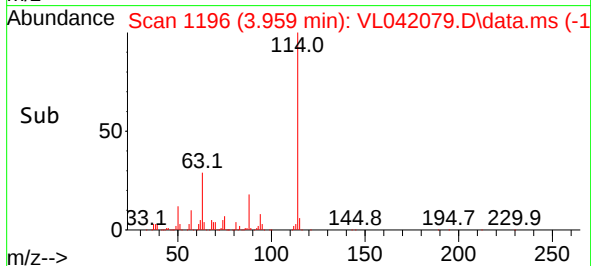
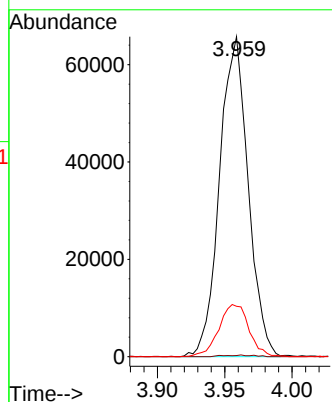
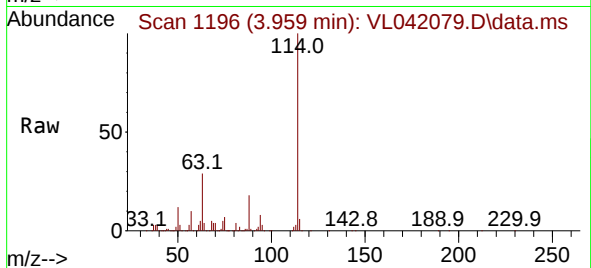
Tgt Ion: 63 Resp: 96951

Ion Ratio Lower Upper

63 100

41 0.3 60.1 90.1#

62 15.8 55.8 83.8#



#51

2-Hexanone

Concen: 0.137 ppbv

RT: 7.441 min Scan# 2272

Delta R.T. -0.023 min

Lab File: VL042079.D

Acq: 03 Mar 2025 16:23

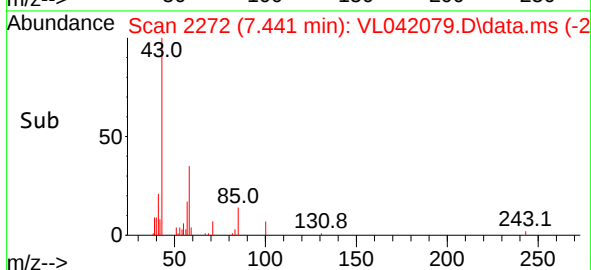
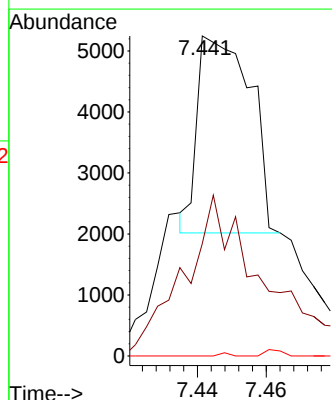
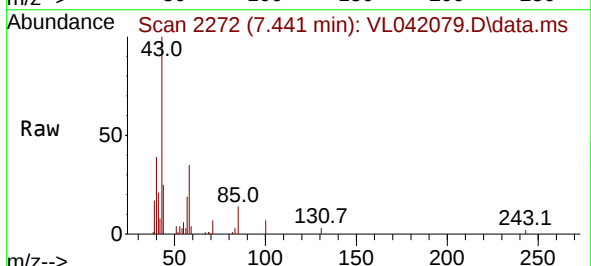
Tgt Ion: 43 Resp: 3431

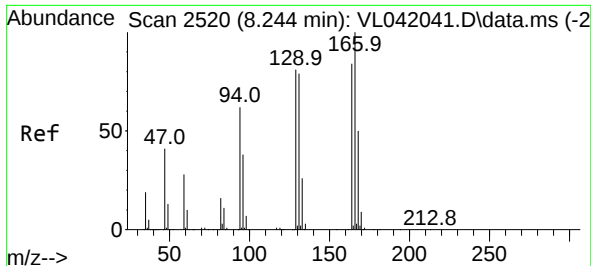
Ion Ratio Lower Upper

43 100

58 125.8 39.0 58.6#

98 1.4 0.1 0.1#

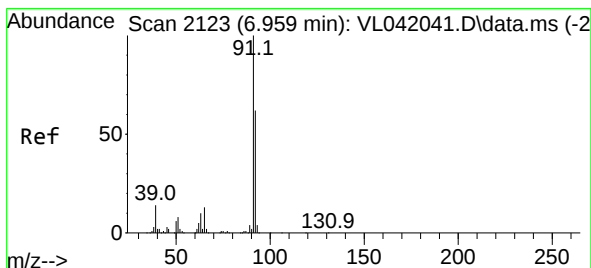
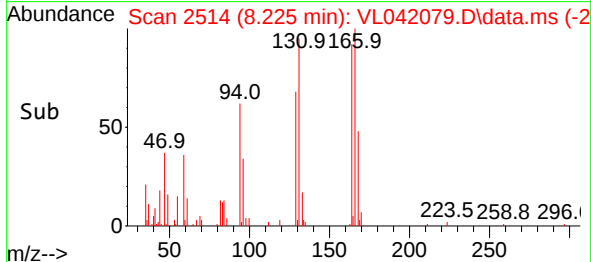
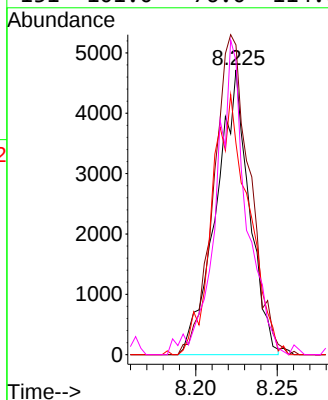
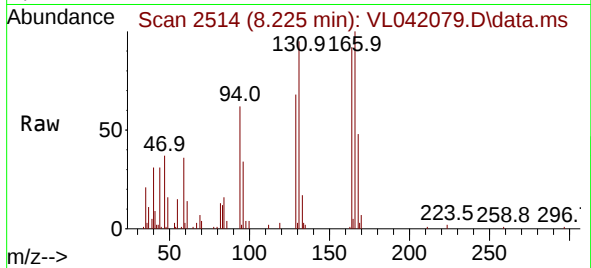




#52
Tetrachloroethene
Concen: 0.516 ppbv
RT: 8.225 min Scan# 2114
Delta R.T. -0.019 min
Lab File: VL042079.D
Acq: 03 Mar 2025 16:23

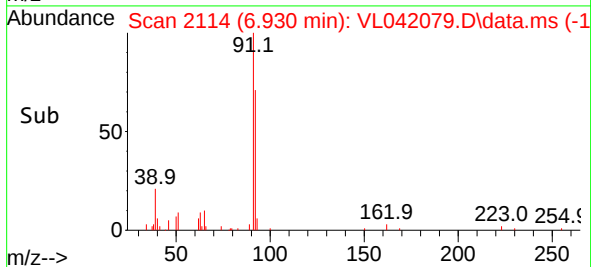
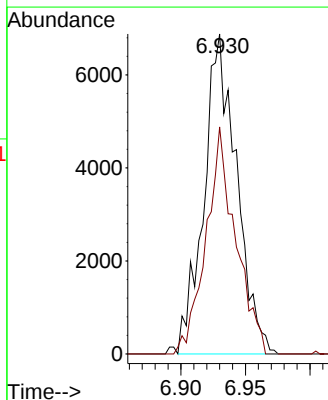
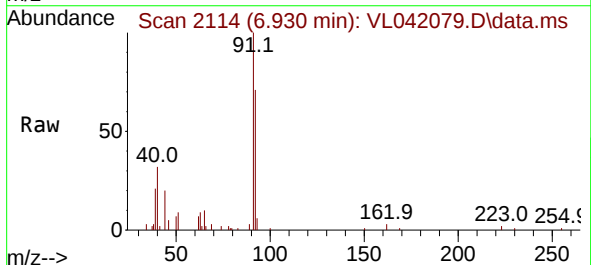
Instrument :
MSVOA_L
ClientSampleId :
SV3

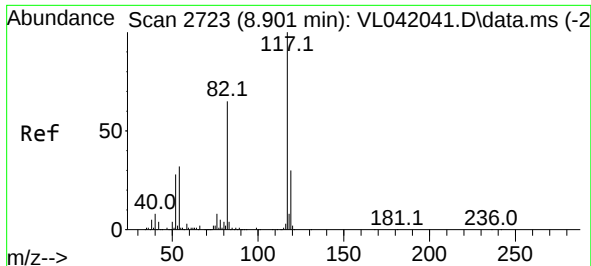
Tgt Ion:164 Resp: 6663
Ion Ratio Lower Upper
164 100
166 108.8 95.7 143.5
129 74.2 77.1 115.7#
131 101.0 76.0 114.0



#53
Toluene
Concen: 0.288 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. -0.029 min
Lab File: VL042079.D
Acq: 03 Mar 2025 16:23

Tgt Ion: 91 Resp: 12131
Ion Ratio Lower Upper
91 100
92 64.1 49.0 73.6

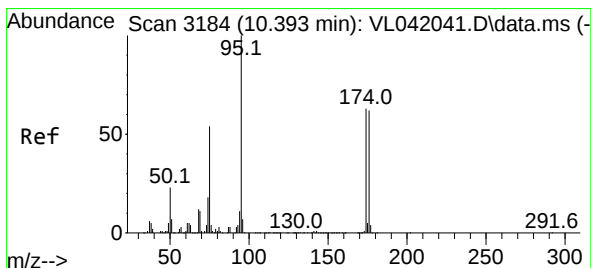
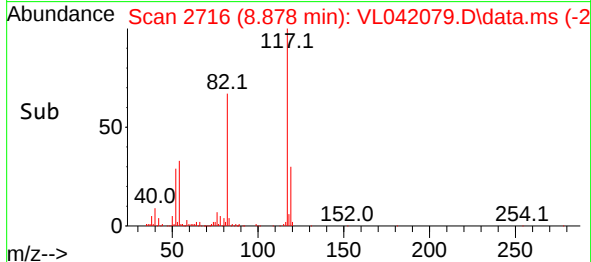
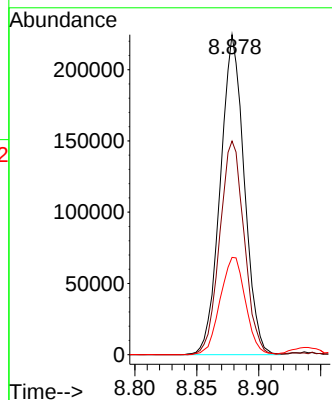
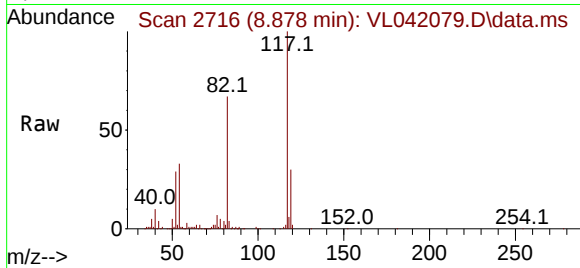




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. -0.023 min
Lab File: VL042079.D
Acq: 03 Mar 2025 16:23

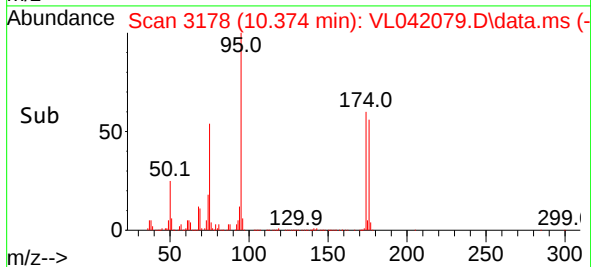
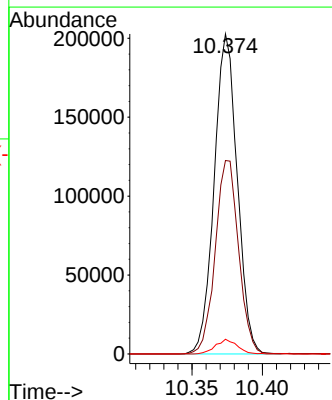
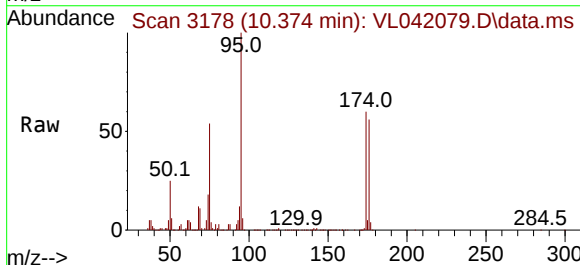
Instrument :
MSVOA_L
ClientSampleId :
SV3

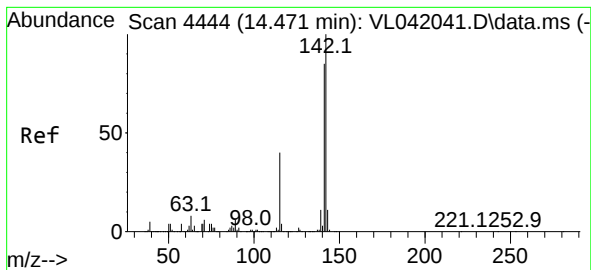
Tgt Ion:117 Resp: 301876
Ion Ratio Lower Upper
117 100
82 68.4 55.0 82.6
119 32.1 25.9 38.9



#68
1-Bromo-4-Fluorobenzene
Concen: 9.941 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.019 min
Lab File: VL042079.D
Acq: 03 Mar 2025 16:23

Tgt Ion: 95 Resp: 230887
Ion Ratio Lower Upper
95 100
174 61.3 51.8 77.6
175 4.3 3.9 5.9





#80
Naphthalene, 2-methyl-
Concen: 0.033 ppbv
RT: 14.465 min Scan# 44
Delta R.T. -0.006 min
Lab File: VL042079.D
Acq: 03 Mar 2025 16:23

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion	Ratio	Lower	Upper
142	100		
141	62.1	65.8	98.6#
115	37.3	29.5	44.3

