

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
 Data File : VL041843.D
 Acq On : 07 Jan 2025 11:52
 Operator : SY/MD
 Sample : VSTDIC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 08 00:58:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 07 13:48:55 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	85525	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.984	114	192559	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	161678	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.396	95	131934	9.528	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.300%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.505	85	459	0.033	ppbv	90
3) Chlorodifluoromethane	1.483	51	640	0.048	ppbv #	77
4) Chloromethane	1.541	50	290	0.050	ppbv #	66
5) Vinyl Chloride	1.586	62	224	0.038	ppbv #	32
6) Bromomethane	1.677	94	179	0.072	ppbv #	67
7) Chloroethane	1.716	64	104	0.046	ppbv	96
8) Dichlorotetrafluoroethane	1.560	85	425	0.035	ppbv	100
9) Propene	1.489	41	415	0.089	ppbv	95
11) Trichlorofluoromethane	1.887	101	569	0.040	ppbv	93
13) Ethanol	1.732	45	205	0.386	ppbv #	35
14) Bromoethene	1.790	108	115	0.033	ppbv #	43
15) Acetone	1.848	43	1806	0.115	ppbv	94
16) 1,3-Butadiene	1.612	39	618	0.100	ppbv #	51
17) tert-Butyl alcohol	2.059	59	596	0.044	ppbv #	91
19) Isopropyl Alcohol	1.900	45	982	0.133	ppbv #	93
20) Methylene Chloride	2.072	84	805	0.179	ppbv #	74
21) Allyl Chloride	2.107	41	435	0.054	ppbv #	55
23) Vinyl Acetate	2.483	43	209	0.041	ppbv #	28
27) Carbon Disulfide	2.162	76	304	0.035	ppbv #	1
28) Methyl tert-Butyl Ether	2.457	73	248	0.036	ppbv	100
29) Chloroform	2.861	83	606	0.036	ppbv #	78
32) 1,1,1-Trichloroethane	3.389	97	547	0.035	ppbv #	83
39) 1,2-Dichloropropane	3.984	63	53551	7.526	ppbv #	16
66) Benzyl Chloride	11.626	91	69	0.031	ppbv #	69

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

Instrument :

MSVOA_L

ClientSampleId :

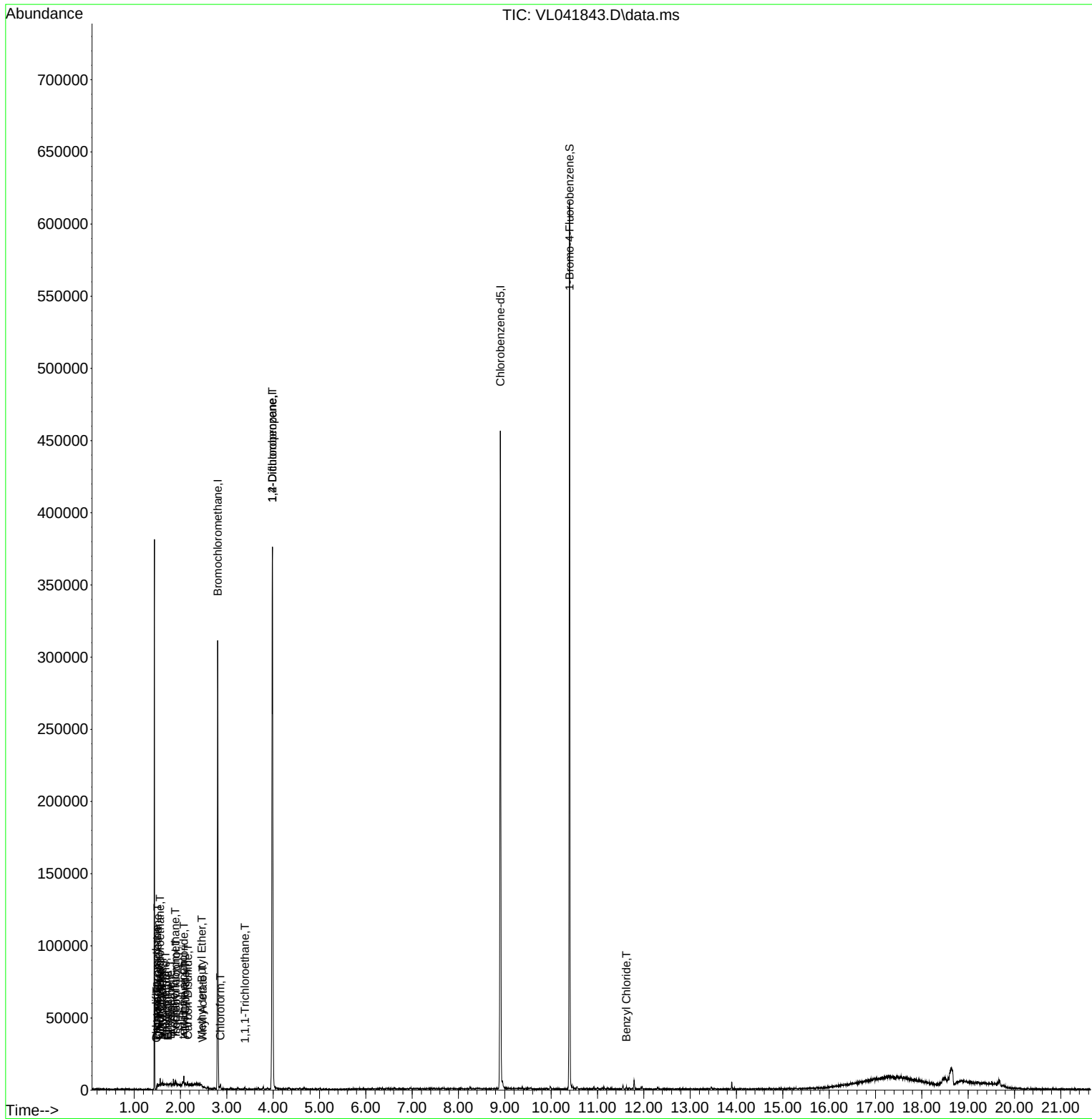
Quant Time: Jan 08 00:58:36 2025

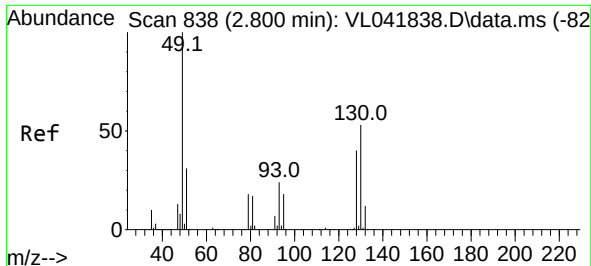
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

QLast Update : Tue Jan 07 13:48:55 2025

Response via : Initial Calibration

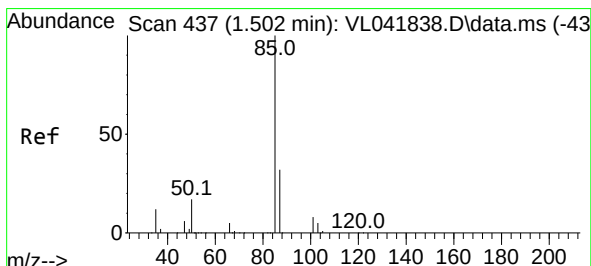
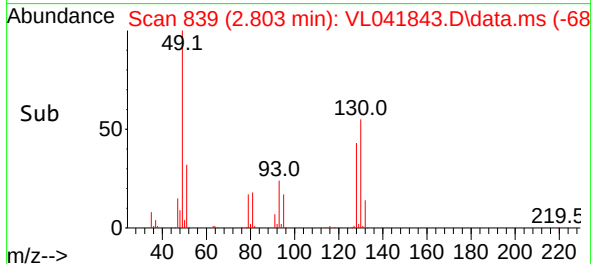
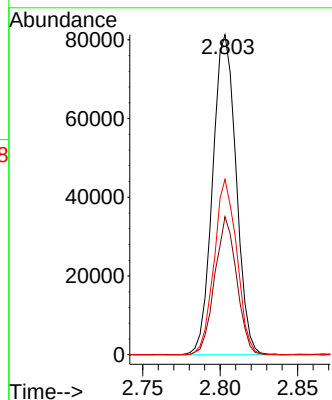
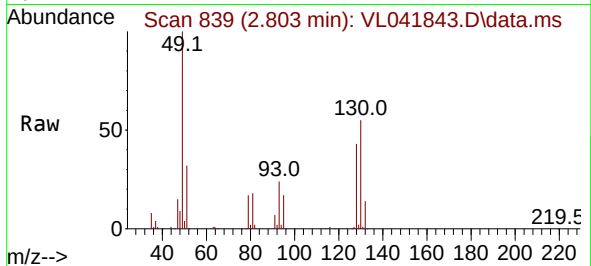




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL041843.D
Acq: 07 Jan 2025 11:52

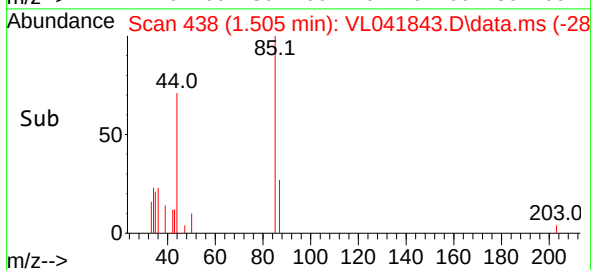
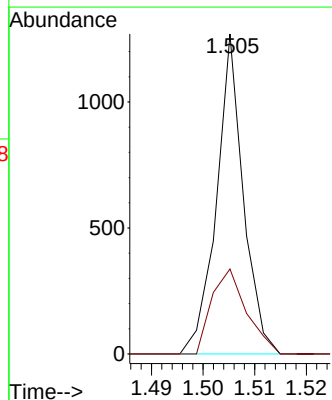
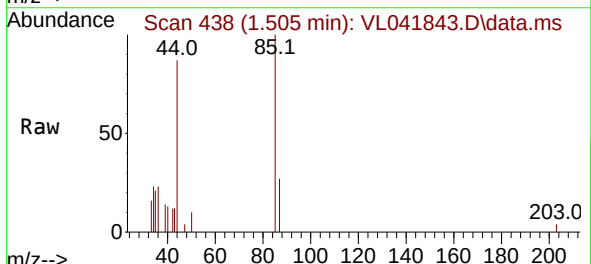
Instrument :
MSVOA_L
ClientSampleId :

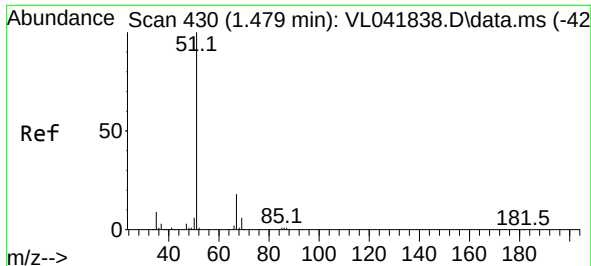
Tgt Ion: 49 Resp: 85525
Ion Ratio Lower Upper
49 100
128 40.3 19.7 59.1
130 53.1 26.4 79.2



#2
Dichlorodifluoromethane
Concen: 0.033 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.003 min
Lab File: VL041843.D
Acq: 07 Jan 2025 11:52

Tgt Ion: 85 Resp: 459
Ion Ratio Lower Upper
85 100
87 26.5 25.6 38.4

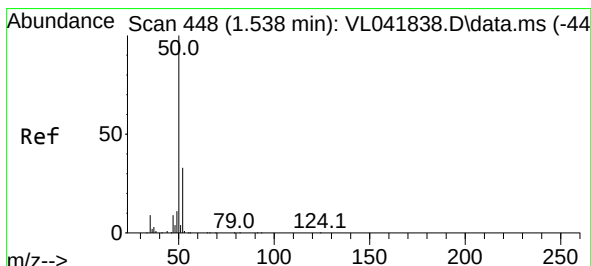
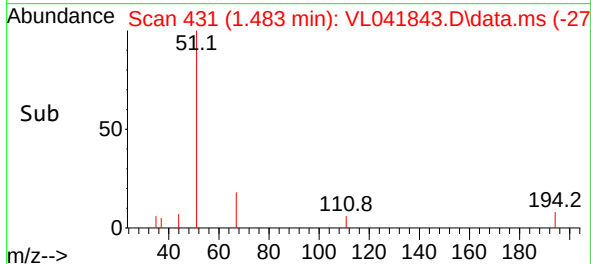
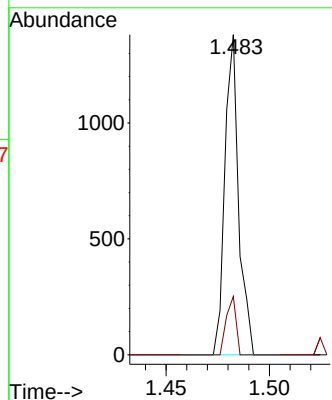
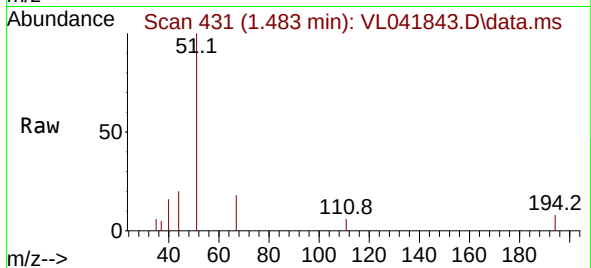




#3
Chlorodifluoromethane
Concen: 0.048 ppbv
RT: 1.483 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL041843.D
Acq: 07 Jan 2025 11:52

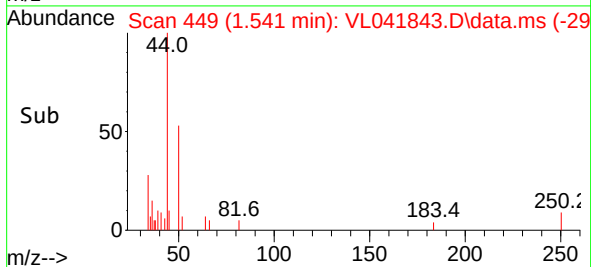
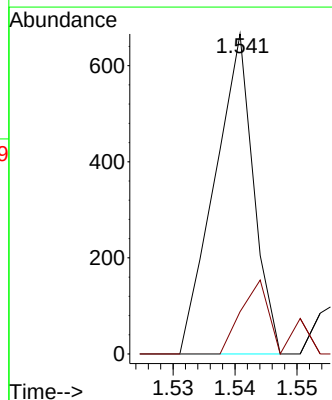
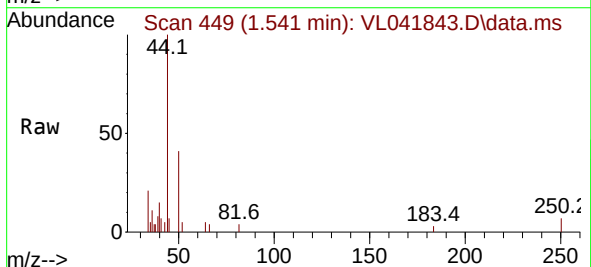
Instrument :
MSVOA_L
ClientSampleId :

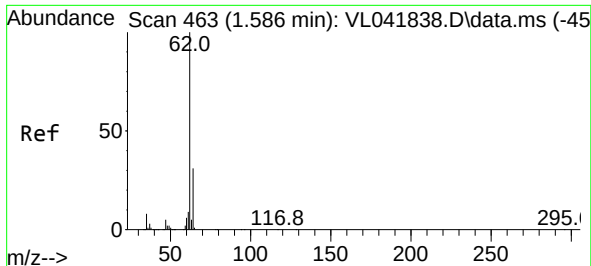
Tgt Ion: 51 Resp: 640
Ion Ratio Lower Upper
51 100
67 8.0 14.6 22.0#



#4
Chloromethane
Concen: 0.050 ppbv
RT: 1.541 min Scan# 449
Delta R.T. 0.003 min
Lab File: VL041843.D
Acq: 07 Jan 2025 11:52

Tgt Ion: 50 Resp: 290
Ion Ratio Lower Upper
50 100
52 13.2 26.1 39.1#

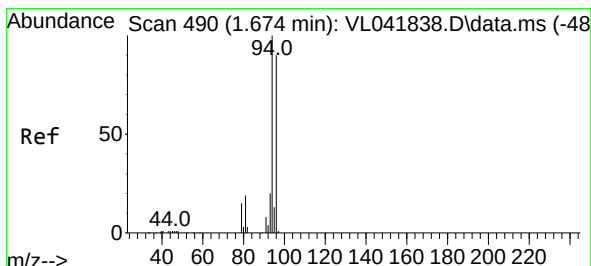
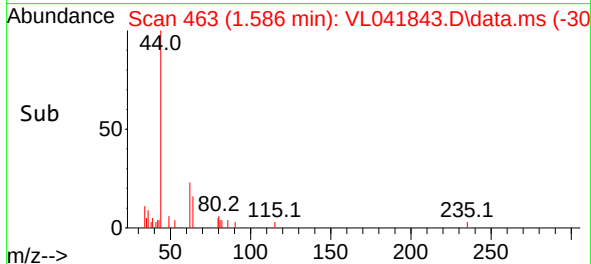
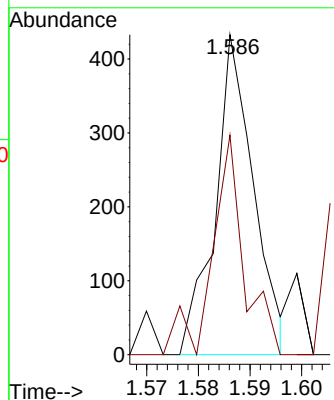
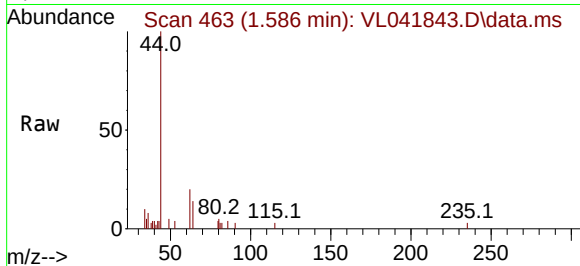




#5
 Vinyl Chloride
 Concen: 0.038 ppbv
 RT: 1.586 min Scan# 463
 Delta R.T. -0.000 min
 Lab File: VL041843.D
 Acq: 07 Jan 2025 11:52

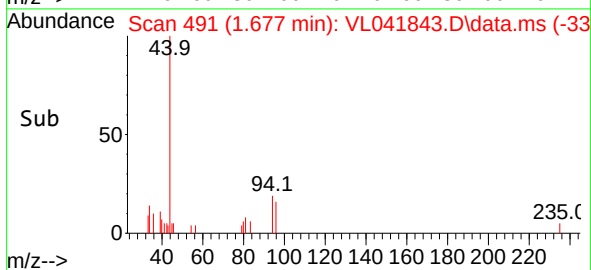
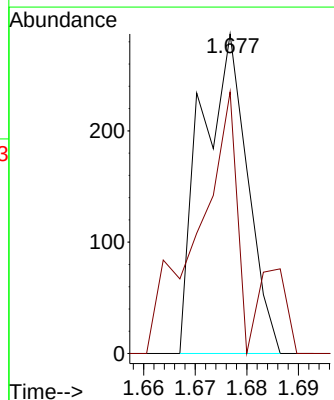
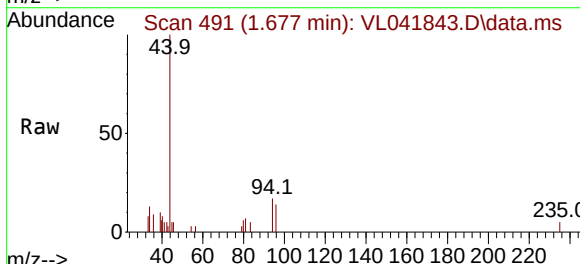
Instrument :
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 ClientSampleId :

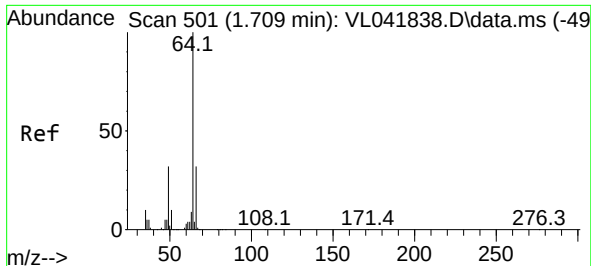
Tgt Ion: 62 Resp: 224
 Ion Ratio Lower Upper
 62 100
 64 68.6 24.9 37.3#



#6
 Bromomethane
 Concen: 0.072 ppbv
 RT: 1.677 min Scan# 491
 Delta R.T. 0.003 min
 Lab File: VL041843.D
 Acq: 07 Jan 2025 11:52

Tgt Ion: 94 Resp: 179
 Ion Ratio Lower Upper
 94 100
 96 58.5 72.0 108.0#

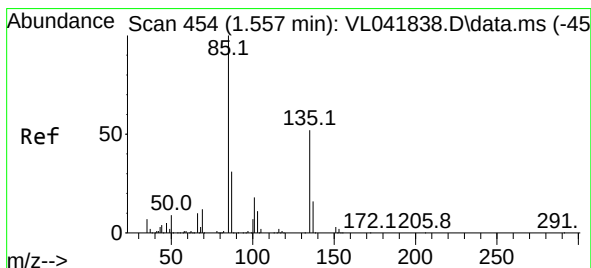
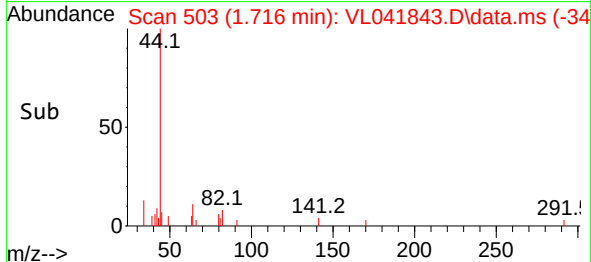
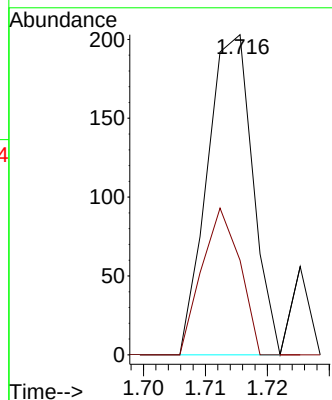
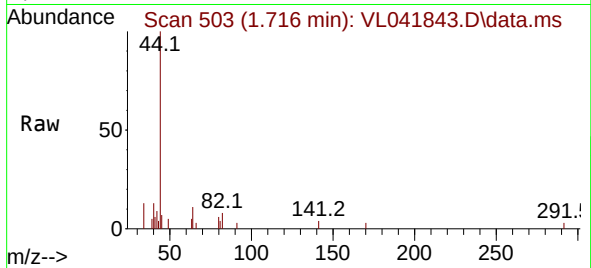




#7
Chloroethane
Concen: 0.046 ppbv
RT: 1.716 min Scan# 501
Delta R.T. 0.006 min
Lab File: VL041843.D
Acq: 07 Jan 2025 11:52

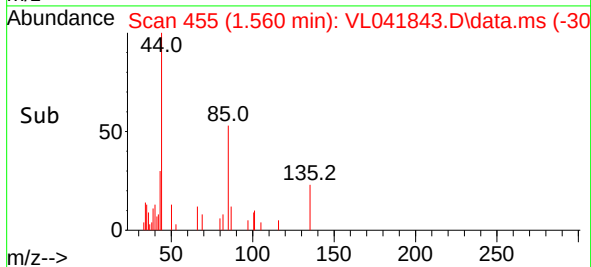
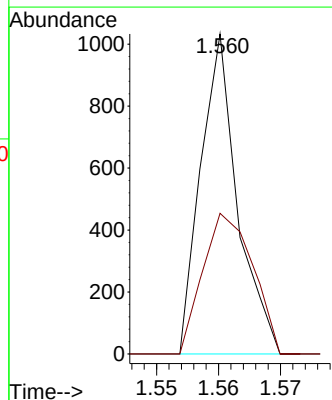
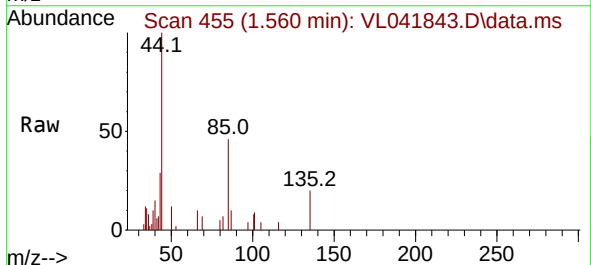
Instrument :
MSVOA_L
ClientSampleId :

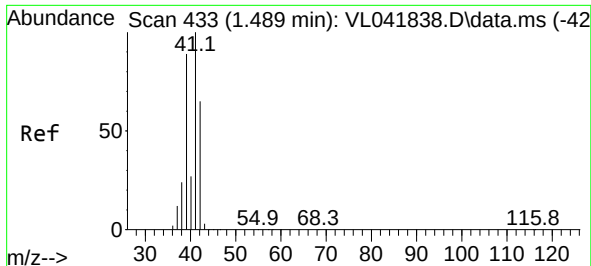
Tgt Ion: 64 Resp: 104
Ion Ratio Lower Upper
64 100
66 29.6 25.6 38.4



#8
Dichlorotetrafluoroethane
Concen: 0.035 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.003 min
Lab File: VL041843.D
Acq: 07 Jan 2025 11:52

Tgt Ion: 85 Resp: 425
Ion Ratio Lower Upper
85 100
135 60.0 47.9 71.9

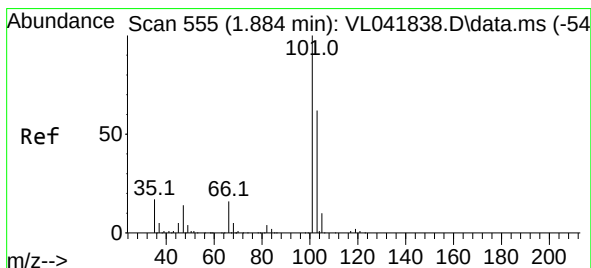
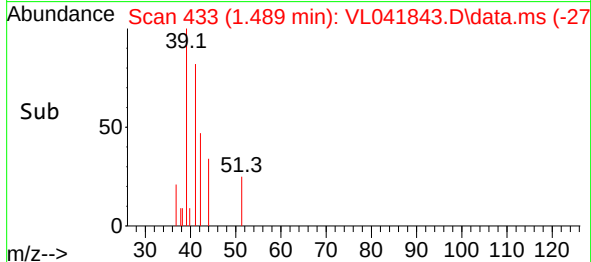
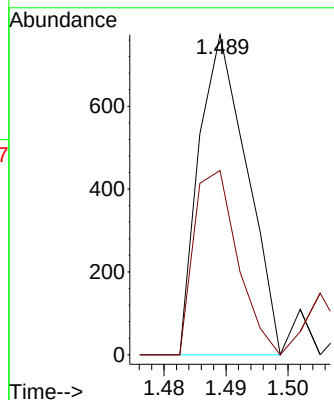
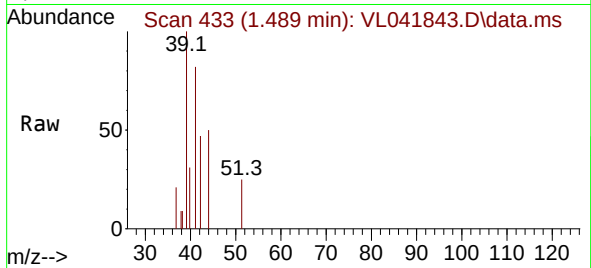




#9
Propene
Concen: 0.089 ppbv
RT: 1.489 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL041843.D
Acq: 07 Jan 2025 11:52

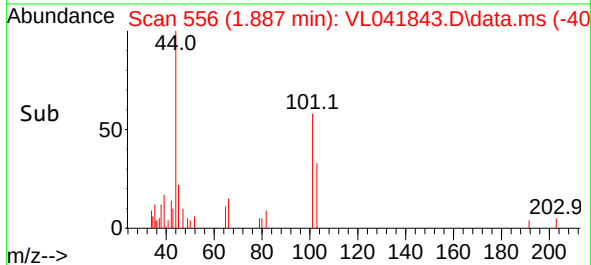
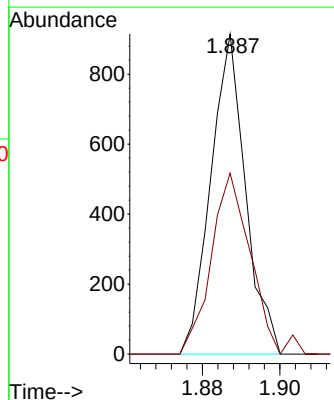
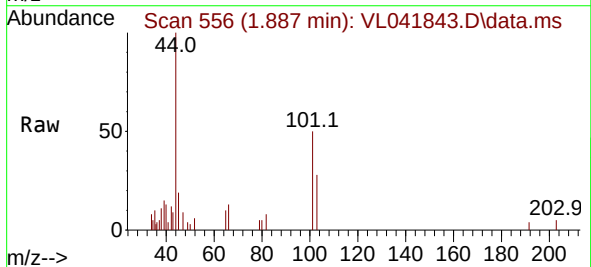
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MSVOA_L
ClientSampleId :

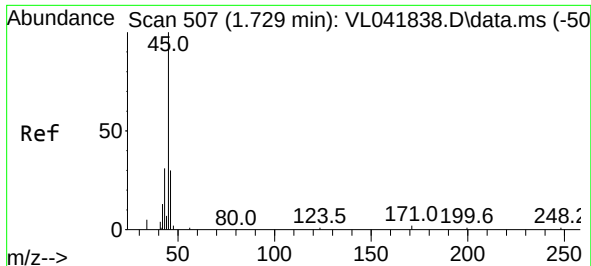
Tgt Ion: 41 Resp: 415
Ion Ratio Lower Upper
41 100
42 72.3 54.4 81.6



#11
Trichlorofluoromethane
Concen: 0.040 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL041843.D
Acq: 07 Jan 2025 11:52

Tgt Ion:101 Resp: 569
Ion Ratio Lower Upper
101 100
103 56.5 49.4 74.0

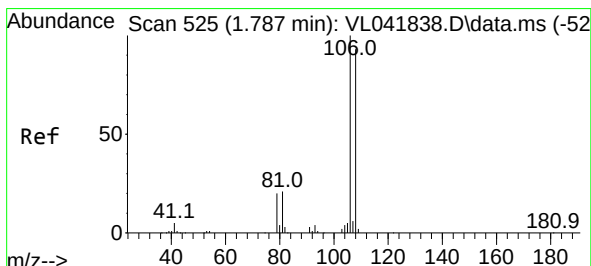
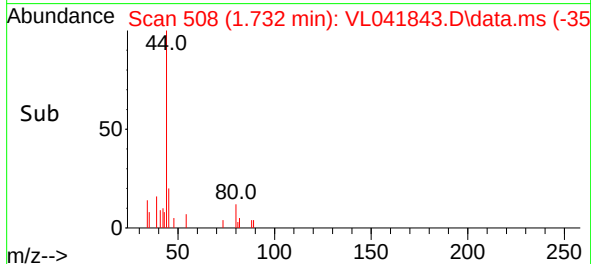
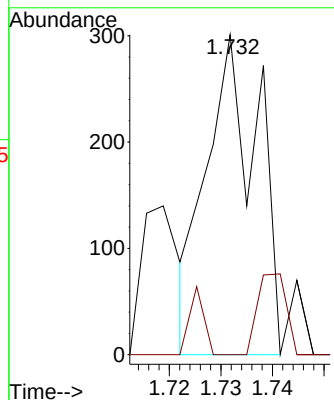
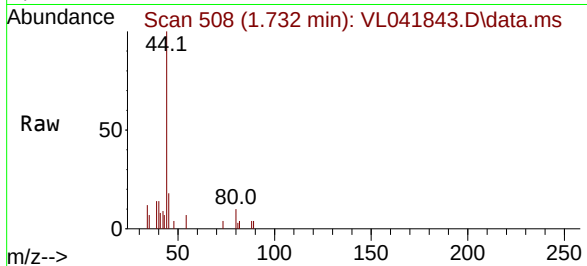




#13
 Ethanol
 Concen: 0.386 ppbv
 RT: 1.732 min Scan# 507
 Delta R.T. 0.003 min
 Lab File: VL041843.D
 Acq: 07 Jan 2025 11:52

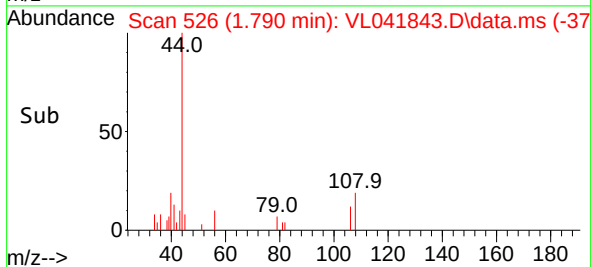
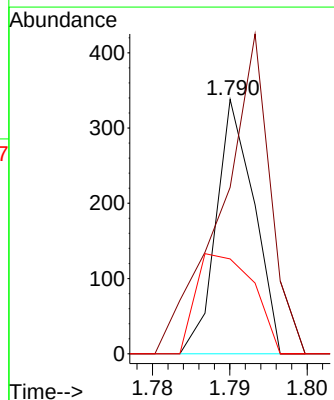
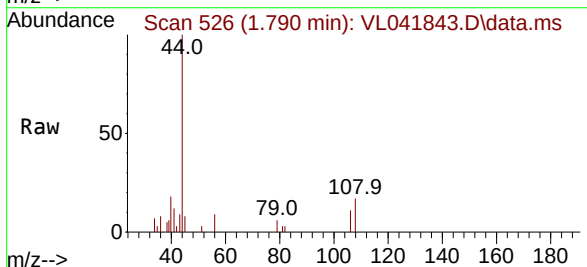
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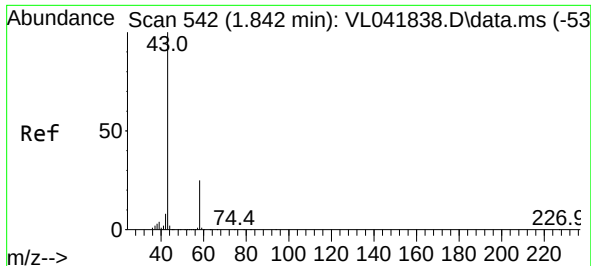
Tgt Ion: 45 Resp: 205
 Ion Ratio Lower Upper
 45 100
 46 0.0 16.1 64.5#



#14
 Bromoethene
 Concen: 0.033 ppbv
 RT: 1.790 min Scan# 526
 Delta R.T. 0.003 min
 Lab File: VL041843.D
 Acq: 07 Jan 2025 11:52

Tgt Ion: 108 Resp: 115
 Ion Ratio Lower Upper
 108 100
 106 160.0 84.6 126.8#
 79 60.0 18.3 27.5#

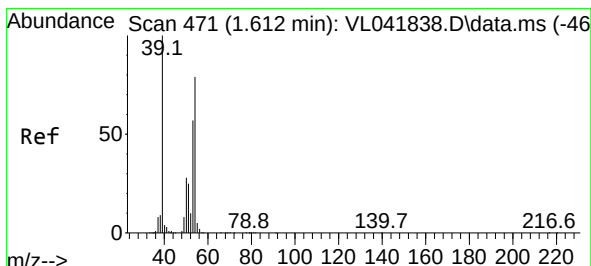
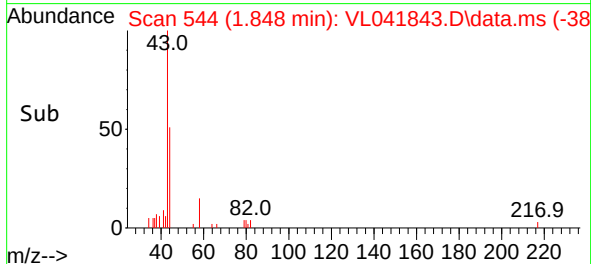
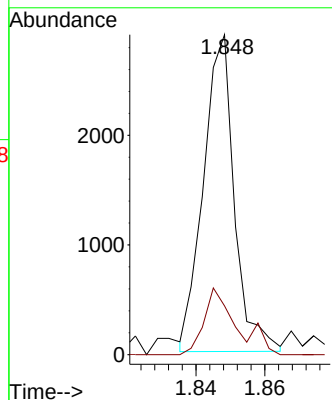
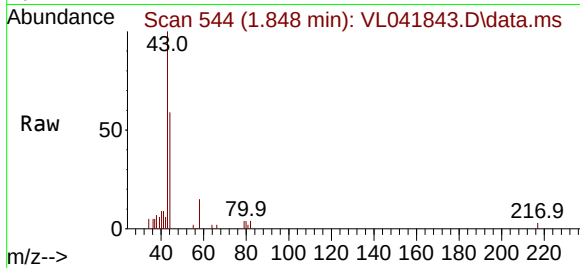




#15
Acetone
Concen: 0.115 ppbv
RT: 1.848 min Scan# 542
Delta R.T. 0.006 min
Lab File: VL041843.D
Acq: 07 Jan 2025 11:52

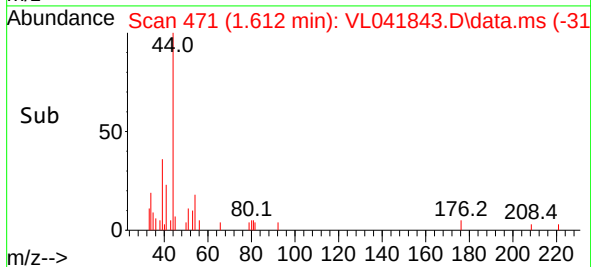
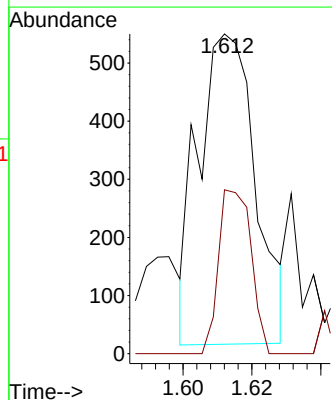
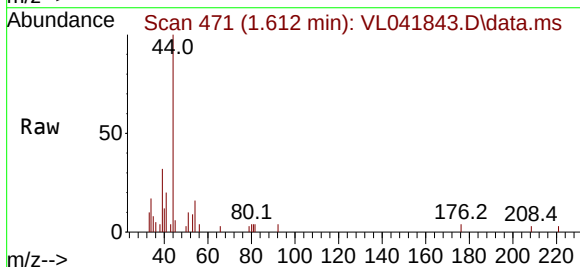
Instrument :
MSVOA_L
ClientSampleId :

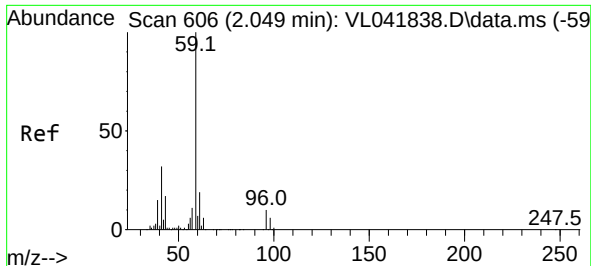
Tgt Ion: 43 Resp: 1806
Ion Ratio Lower Upper
43 100
58 22.3 20.2 30.2



#16
1,3-Butadiene
Concen: 0.100 ppbv
RT: 1.612 min Scan# 471
Delta R.T. -0.000 min
Lab File: VL041843.D
Acq: 07 Jan 2025 11:52

Tgt Ion: 39 Resp: 618
Ion Ratio Lower Upper
39 100
54 29.9 56.2 84.4#





#17

tert-Butyl alcohol

Concen: 0.044 ppbv

RT: 2.059 min Scan# 606

Delta R.T. 0.010 min

Lab File: VL041843.D

Acq: 07 Jan 2025 11:52

Instrument :

MSVOA_L

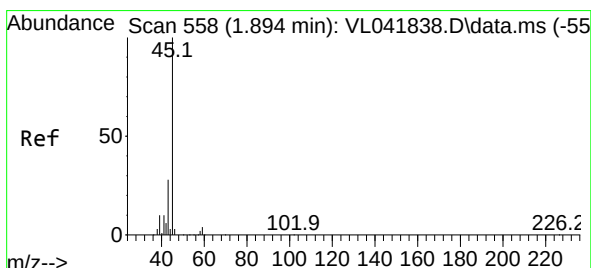
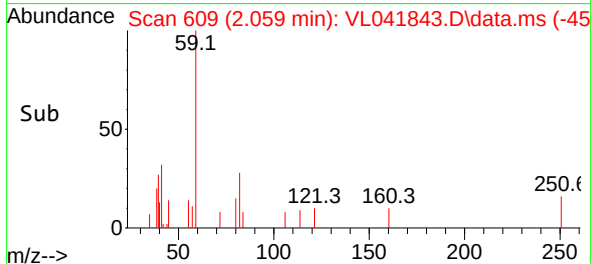
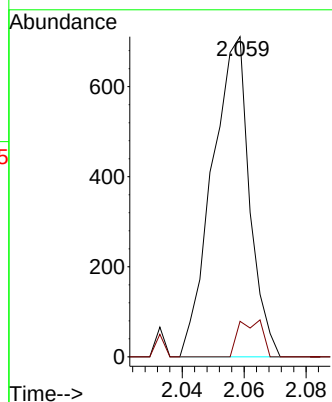
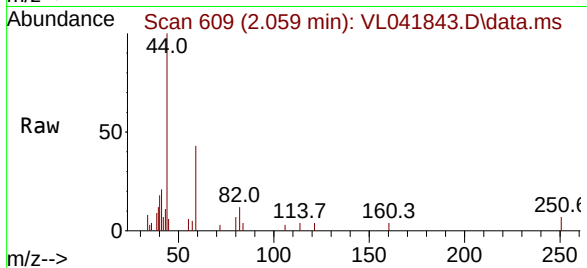
ClientSampleId :

Tgt Ion: 59 Resp: 596

Ion Ratio Lower Upper

59 100

57 7.4 8.6 13.0#



#19

Isopropyl Alcohol

Concen: 0.133 ppbv

RT: 1.900 min Scan# 560

Delta R.T. 0.006 min

Lab File: VL041843.D

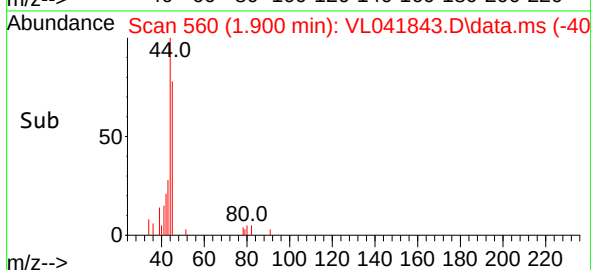
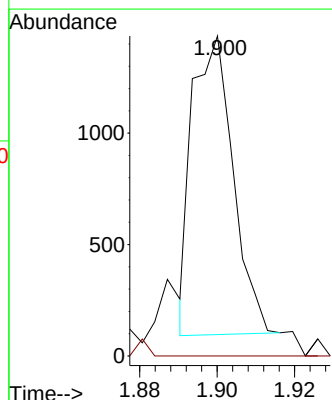
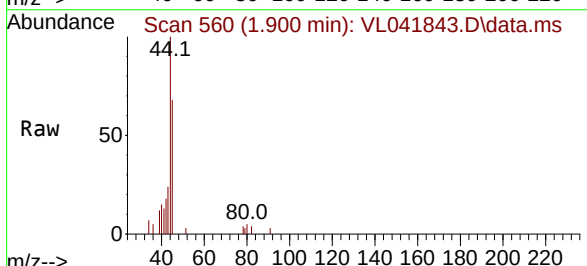
Acq: 07 Jan 2025 11:52

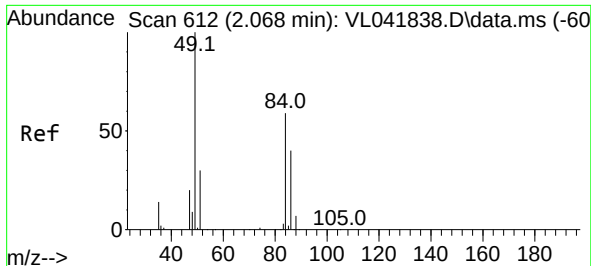
Tgt Ion: 45 Resp: 982

Ion Ratio Lower Upper

45 100

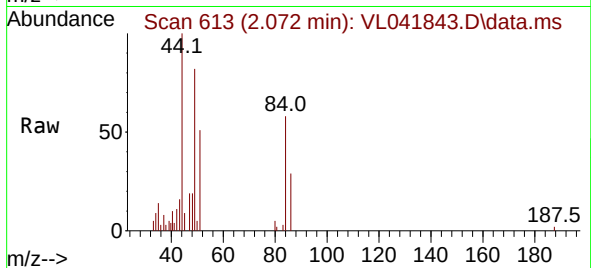
58 0.0 2.0 3.0#





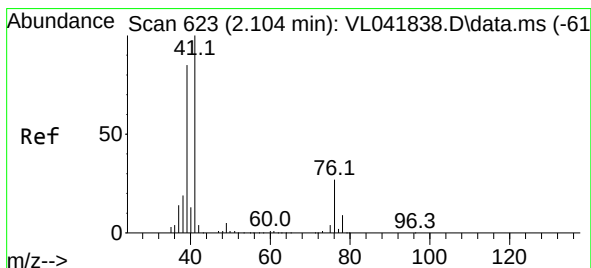
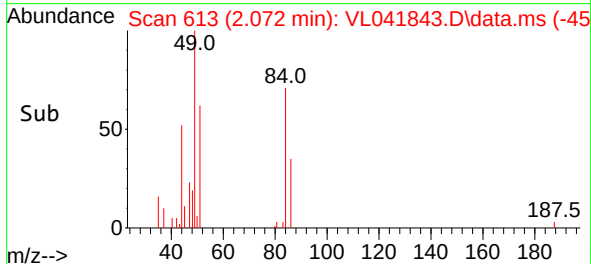
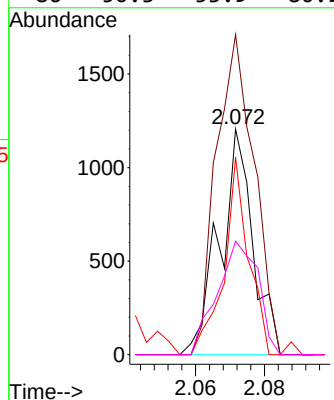
#20
Methylene Chloride
Concen: 0.179 ppbv
RT: 2.072 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL041843.D
Acq: 07 Jan 2025 11:52

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 84 Resp: 805

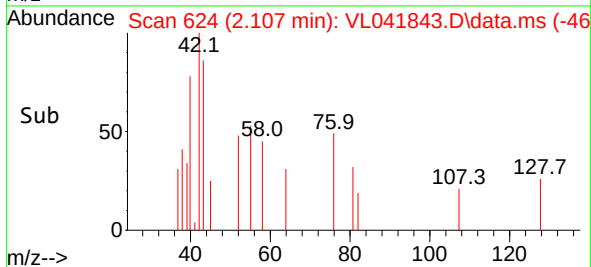
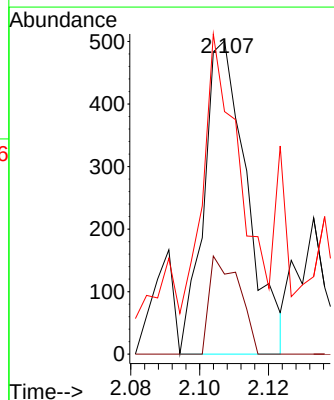
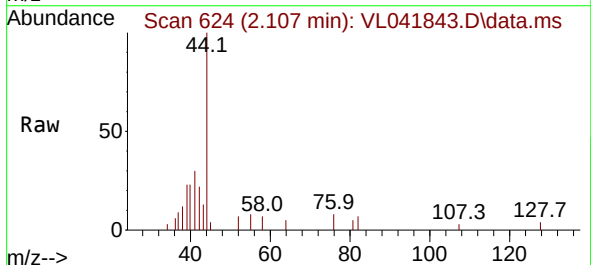
Ion	Ratio	Lower	Upper
84	100		
49	141.8	137.8	206.8
51	87.5	43.9	65.9#
86	50.3	53.9	80.9#

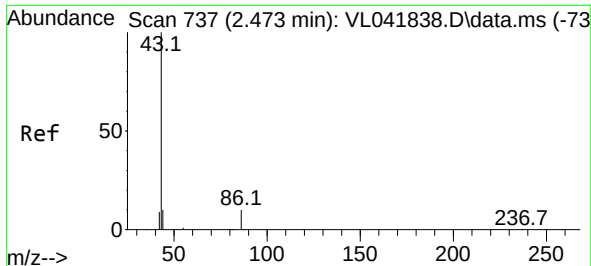


#21
Allyl Chloride
Concen: 0.054 ppbv
RT: 2.107 min Scan# 624
Delta R.T. 0.003 min
Lab File: VL041843.D
Acq: 07 Jan 2025 11:52

Tgt Ion: 41 Resp: 435

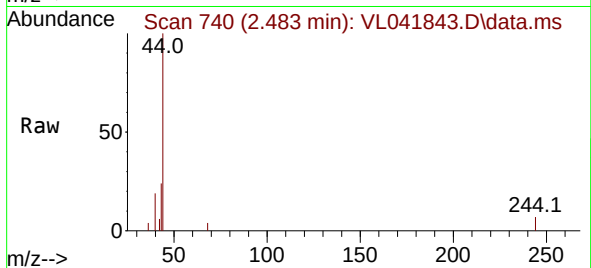
Ion	Ratio	Lower	Upper
41	100		
76	21.8	20.6	31.0
39	135.6	67.4	101.2#



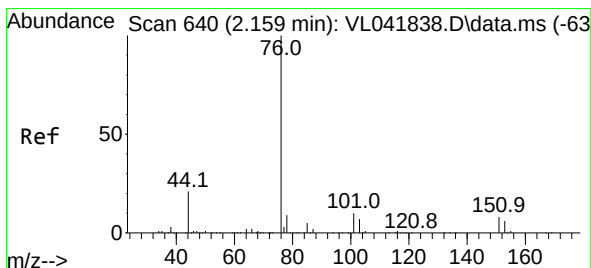
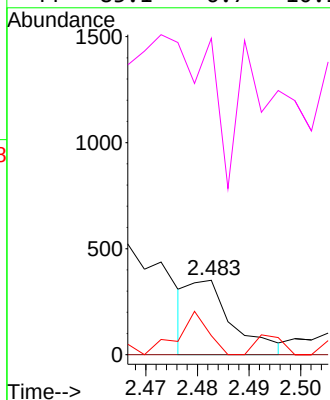
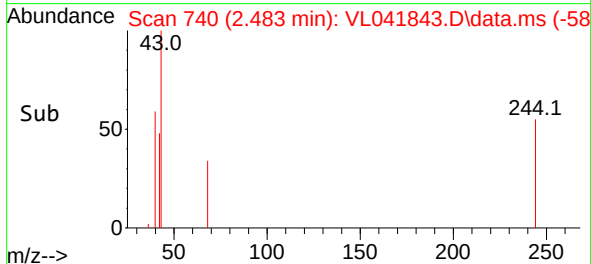


#23
 Vinyl Acetate
 Concen: 0.041 ppbv
 RT: 2.483 min Scan# 74
 Delta R.T. 0.010 min
 Lab File: VL041843.D
 Acq: 07 Jan 2025 11:52

Instrument :
 MSVOA_L
 ClientSampleId :

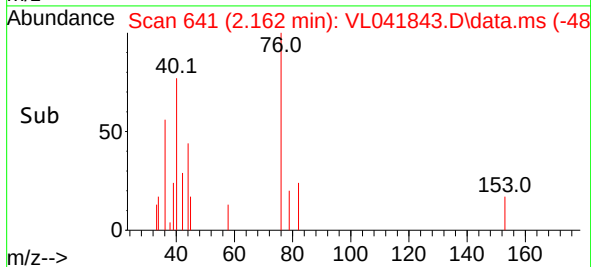
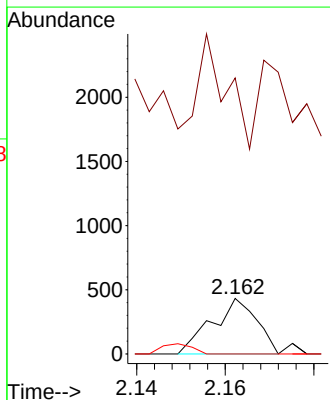
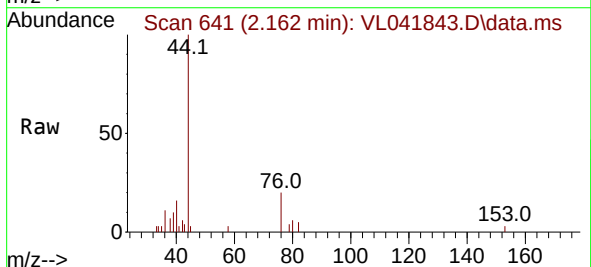


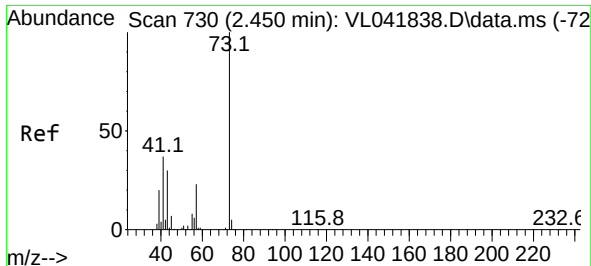
Tgt Ion: 43	Resp:	209	
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.4	9.6#
42	9.1	9.5	14.3#
44	83.1	6.7	10.1#



#27
 Carbon Disulfide
 Concen: 0.035 ppbv
 RT: 2.162 min Scan# 641
 Delta R.T. 0.003 min
 Lab File: VL041843.D
 Acq: 07 Jan 2025 11:52

Tgt Ion: 76	Resp:	304	
Ion	Ratio	Lower	Upper
76	100		
44	771.7	19.8	29.8#
78	12.5	9.8	14.8

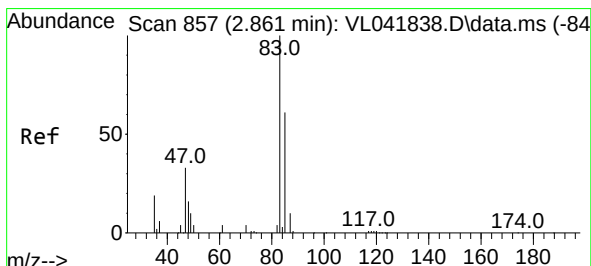
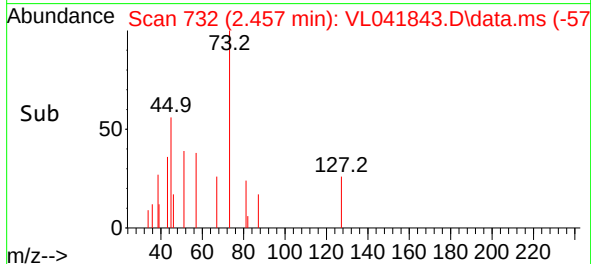
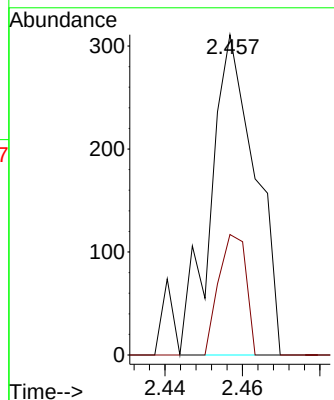
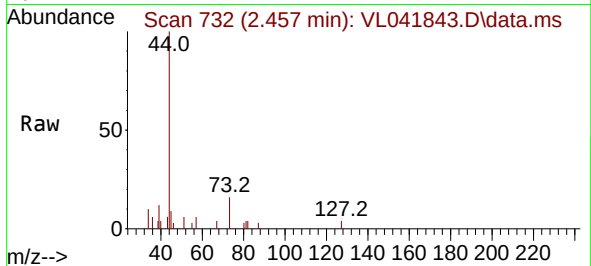




#28
Methyl tert-Butyl Ether
Concen: 0.036 ppbv
RT: 2.457 min Scan# 71
Delta R.T. 0.006 min
Lab File: VL041843.D
Acq: 07 Jan 2025 11:52

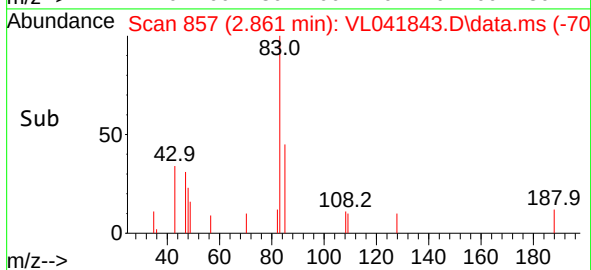
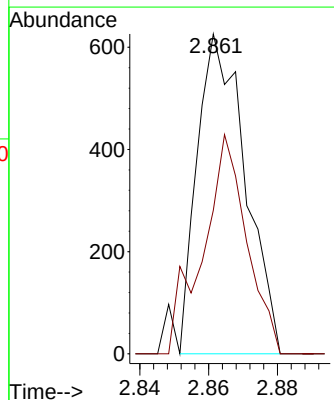
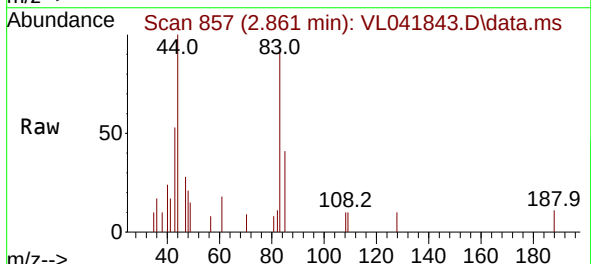
Instrument :
MSVOA_L
ClientSampleId :

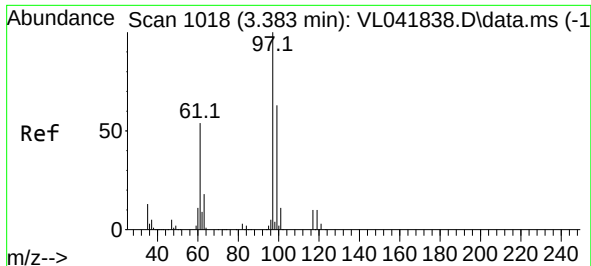
Tgt Ion: 73 Resp: 248
Ion Ratio Lower Upper
73 100
57 23.0 18.4 27.6



#29
Chloroform
Concen: 0.036 ppbv
RT: 2.861 min Scan# 857
Delta R.T. -0.000 min
Lab File: VL041843.D
Acq: 07 Jan 2025 11:52

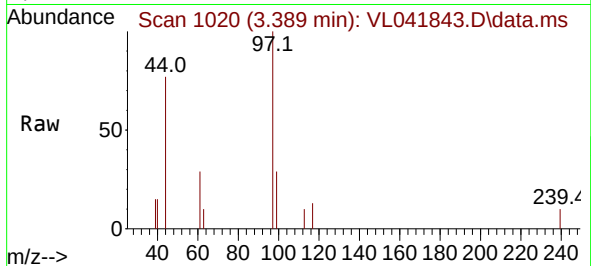
Tgt Ion: 83 Resp: 606
Ion Ratio Lower Upper
83 100
85 44.9 49.6 74.4#





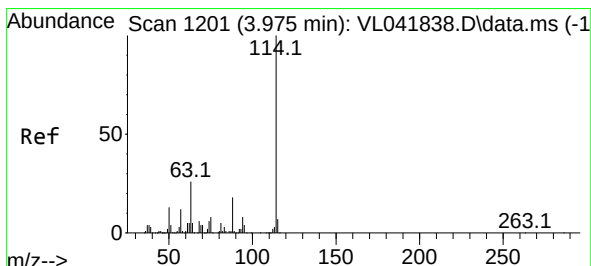
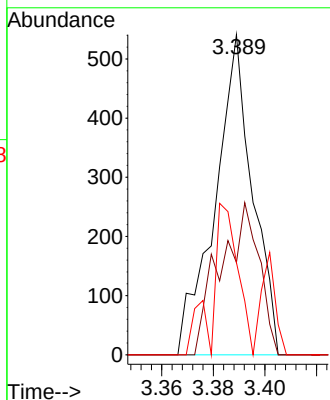
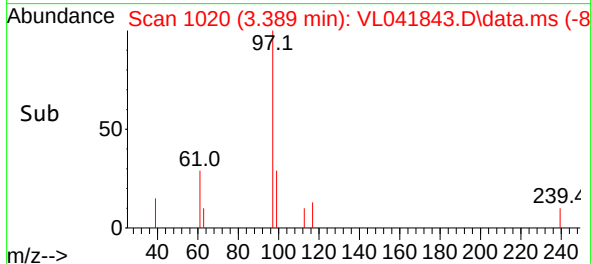
#32
 1,1,1-Trichloroethane
 Concen: 0.035 ppbv
 RT: 3.389 min Scan# 1018
 Delta R.T. 0.006 min
 Lab File: VL041843.D
 Acq: 07 Jan 2025 11:52

Instrument :
 MSVOA_L
 ClientSampleId :

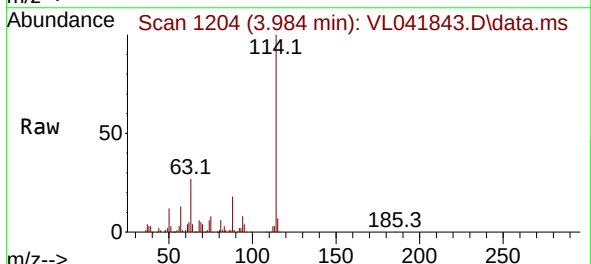


Tgt Ion: 97 Resp: 547

Ion	Ratio	Lower	Upper
97	100		
99	49.0	50.6	76.0#
61	44.2	45.0	67.6#

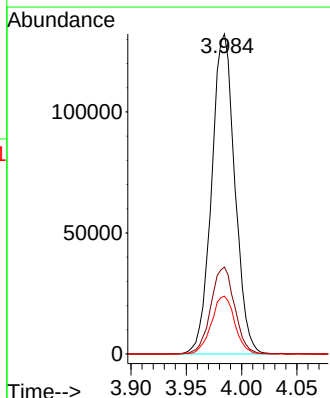
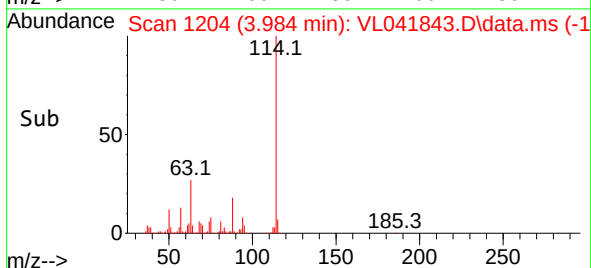


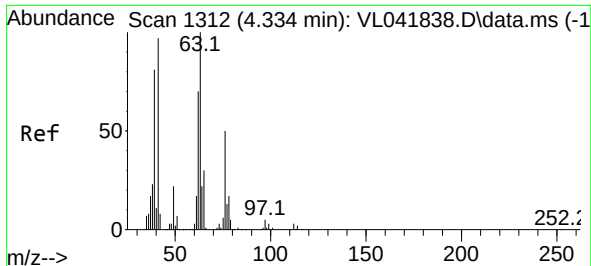
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.984 min Scan# 1204
 Delta R.T. 0.010 min
 Lab File: VL041843.D
 Acq: 07 Jan 2025 11:52



Tgt Ion: 114 Resp: 192559

Ion	Ratio	Lower	Upper
114	100		
63	27.9	22.3	33.5
88	18.3	14.9	22.3





#39

1,2-Dichloropropane

Concen: 7.526 ppbv

RT: 3.984 min Scan# 11

Delta R.T. -0.350 min

Lab File: VL041843.D

Acq: 07 Jan 2025 11:52

Instrument :

MSVOA_L

ClientSampleId :

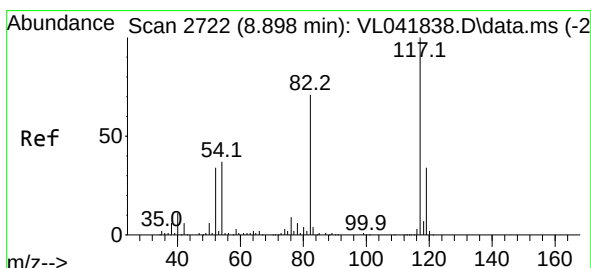
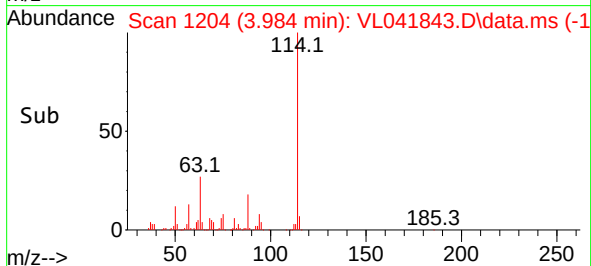
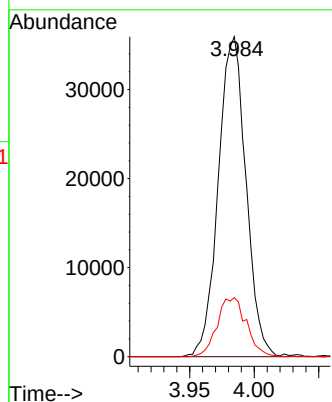
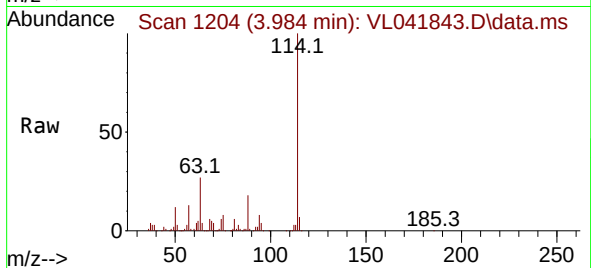
Tgt Ion: 63 Resp: 53551

Ion Ratio Lower Upper

63 100

41 0.0 77.7 116.5#

62 18.5 56.2 84.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.904 min Scan# 2724

Delta R.T. 0.006 min

Lab File: VL041843.D

Acq: 07 Jan 2025 11:52

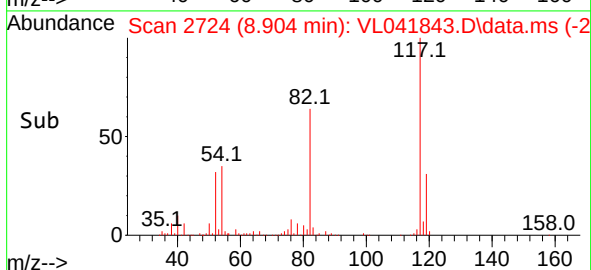
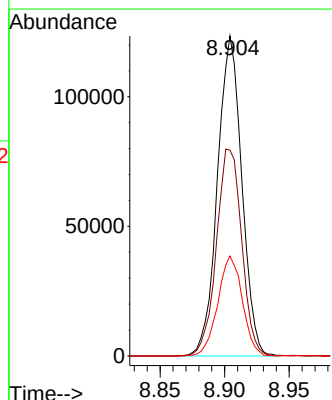
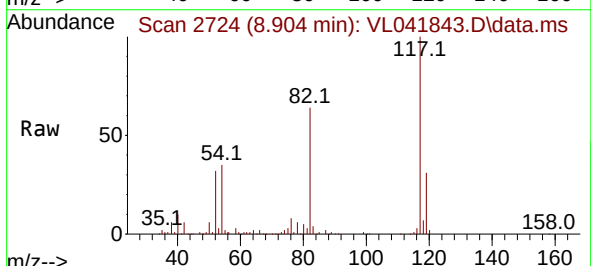
Tgt Ion: 117 Resp: 161678

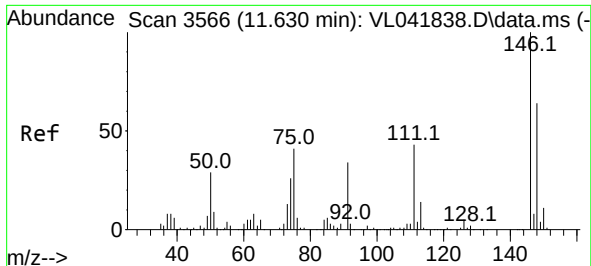
Ion Ratio Lower Upper

117 100

82 67.3 59.1 88.7

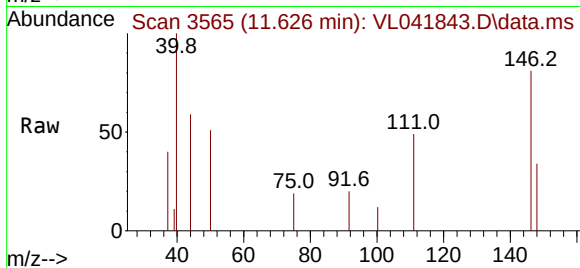
119 31.6 27.3 40.9



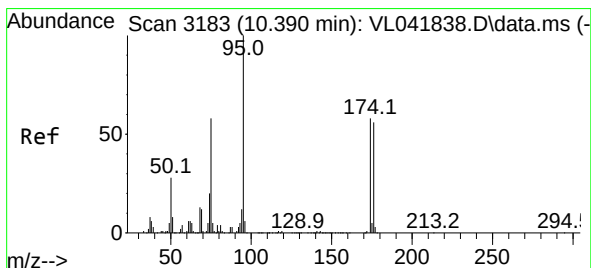
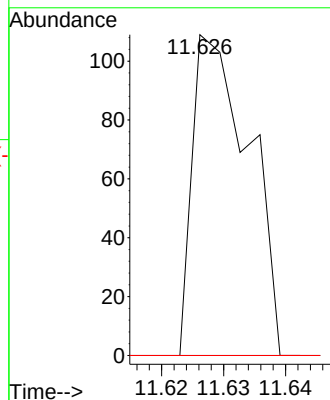
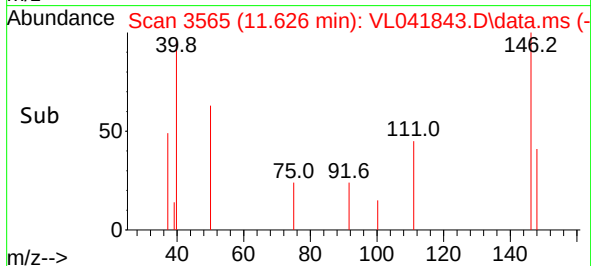


#66
Benzyl Chloride
Concen: 0.031 ppbv
RT: 11.626 min Scan# 3185
Delta R.T. -0.003 min
Lab File: VL041843.D
Acq: 07 Jan 2025 11:52

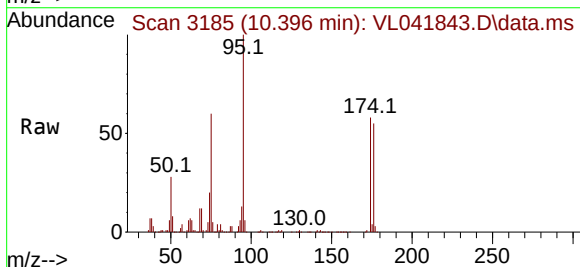
Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 91 Resp: 69
Ion Ratio Lower Upper
91 100
126 0.0 12.1 18.1#
128 0.0 4.3 6.5#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.528 ppbv
RT: 10.396 min Scan# 3185
Delta R.T. 0.006 min
Lab File: VL041843.D
Acq: 07 Jan 2025 11:52



Tgt Ion: 95 Resp: 131934
Ion Ratio Lower Upper
95 100
174 59.4 47.6 71.4
175 4.6 3.8 5.6

