

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041963.D
 Acq On : 03 Feb 2025 14:28
 Operator : SY/MD
 Sample : Q1222-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 04 02:36:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	160454	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.971	114	441246	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	386755	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.386	95	306667	10.067	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.700%

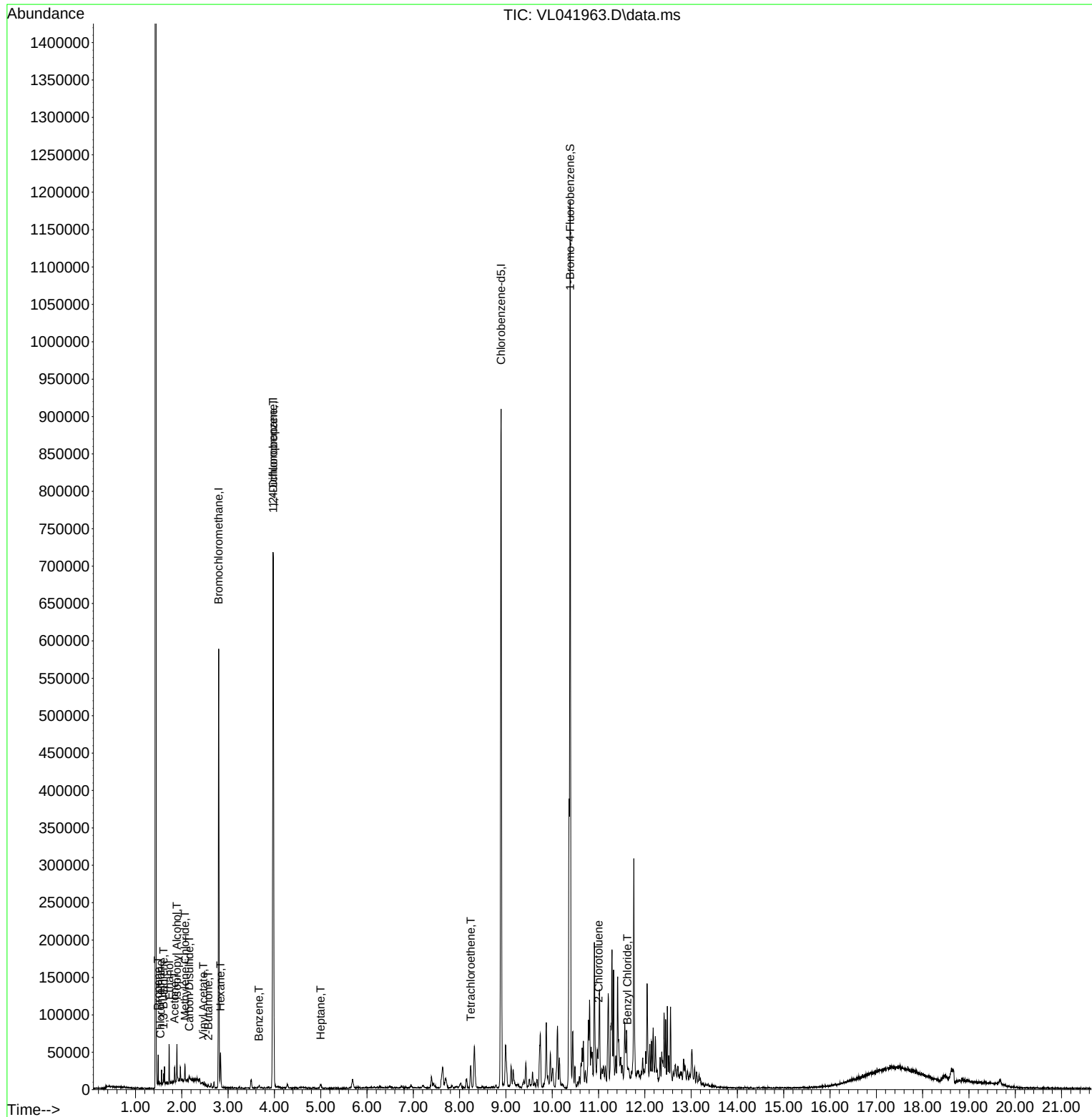
Target Compounds						Qvalue
4) Chloromethane	1.534	50	387	0.047	ppbv	96
9) Propene	1.489	41	5326	0.565	ppbv	87
10) Heptane	4.994	43	2124	0.084	ppbv	91
13) Ethanol	1.725	45	18048	26.124	ppbv	91
15) Acetone	1.842	43	8731	0.453	ppbv	98
16) 1,3-Butadiene	1.605	39	1687	0.195	ppbv #	34
19) Isopropyl Alcohol	1.894	45	20618	1.804	ppbv #	35
20) Methylene Chloride	2.068	84	3545	0.465	ppbv #	84
23) Vinyl Acetate	2.463	43	330	0.035	ppbv #	26
26) Hexane	2.832	57	10532	0.512	ppbv #	38
27) Carbon Disulfide	2.159	76	3973	0.195	ppbv #	1
34) 2-Butanone	2.573	43	2089	0.074	ppbv	96
36) Benzene	3.667	78	1288	0.032	ppbv #	88
39) 1,2-Dichloropropane	3.975	63	105552	7.435	ppbv #	21
52) Tetrachloroethene	8.241	164	5469	0.390	ppbv	92
66) Benzyl Chloride	11.626	91	194	0.046	ppbv #	66
71) 2-Chlorotoluene	11.001	91	2240	0.041	ppbv	75

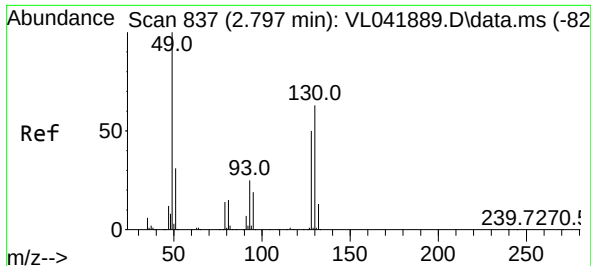
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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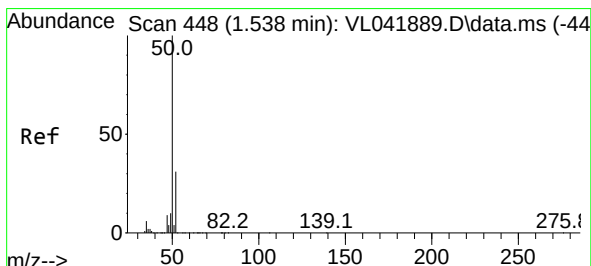
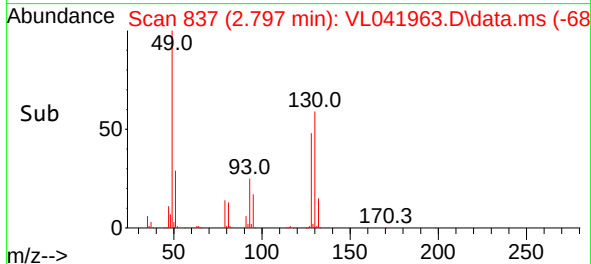
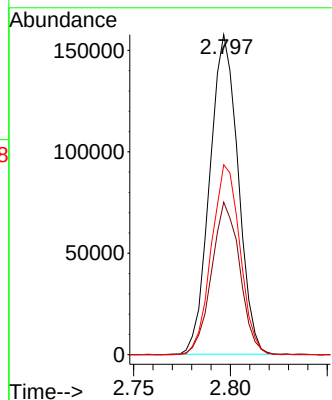
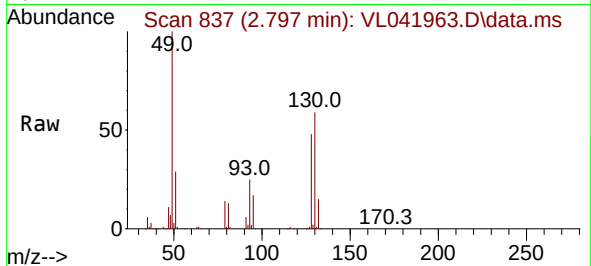




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.797 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL041963.D
 Acq: 03 Feb 2025 14:28

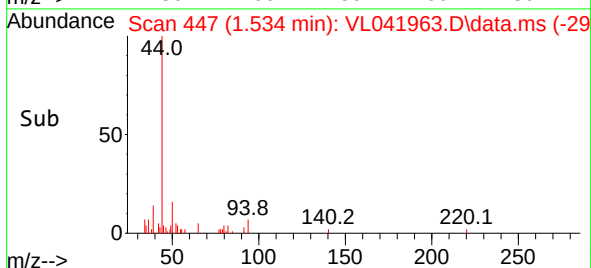
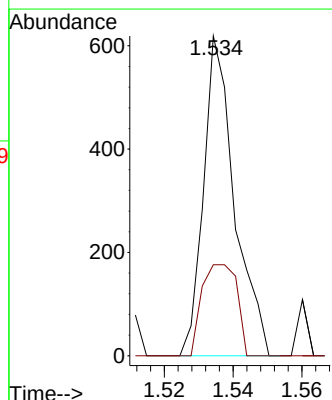
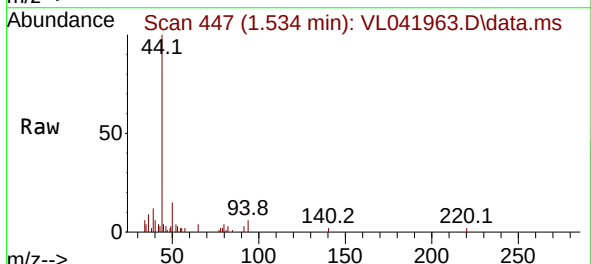
Instrument :
 MSVOA_L
 ClientSampleId :

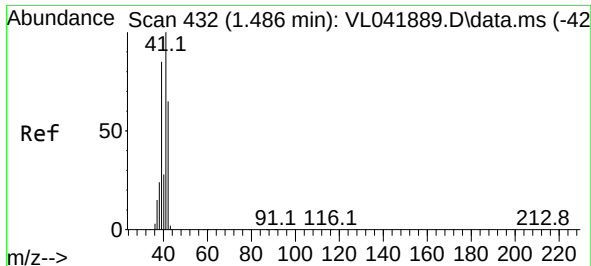
Tgt Ion: 49 Resp: 160454
 Ion Ratio Lower Upper
 49 100
 128 47.6 24.3 73.0
 130 60.0 31.1 93.2



#4
 Chloromethane
 Concen: 0.047 ppbv
 RT: 1.534 min Scan# 447
 Delta R.T. -0.003 min
 Lab File: VL041963.D
 Acq: 03 Feb 2025 14:28

Tgt Ion: 50 Resp: 387
 Ion Ratio Lower Upper
 50 100
 52 28.4 24.6 36.8





#9

Propene

Concen: 0.565 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL041963.D

Acq: 03 Feb 2025 14:28

Instrument :

MSVOA_L

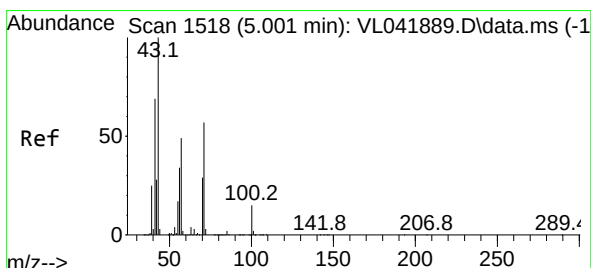
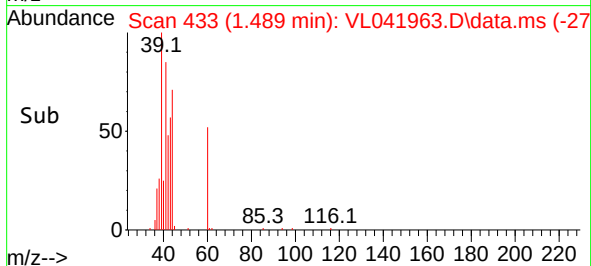
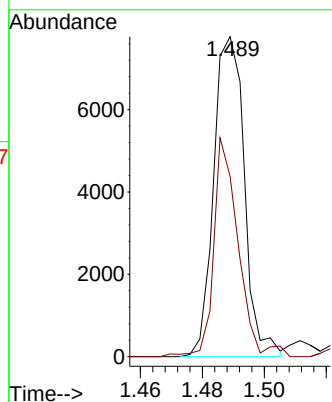
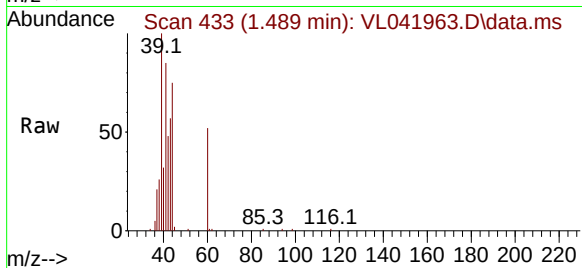
ClientSampleId :

Tgt Ion: 41 Resp: 5326

Ion Ratio Lower Upper

41 100

42 54.4 52.0 78.0



#10

Heptane

Concen: 0.084 ppbv

RT: 4.994 min Scan# 1516

Delta R.T. -0.007 min

Lab File: VL041963.D

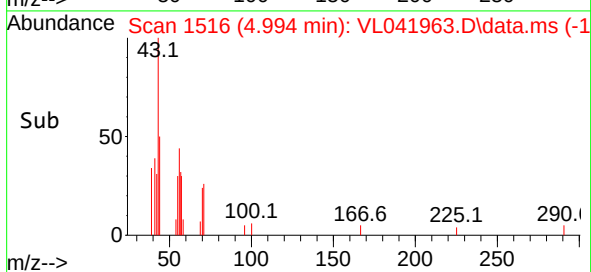
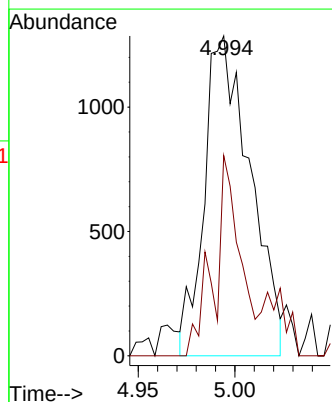
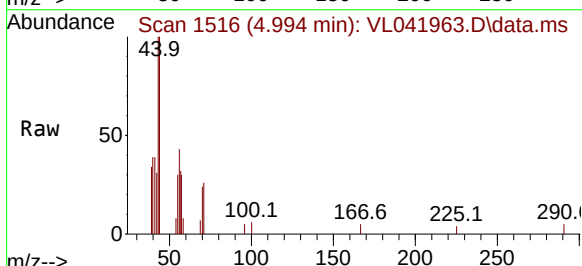
Acq: 03 Feb 2025 14:28

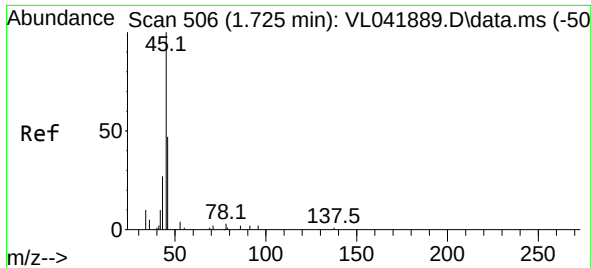
Tgt Ion: 43 Resp: 2124

Ion Ratio Lower Upper

43 100

57 45.0 41.0 61.4

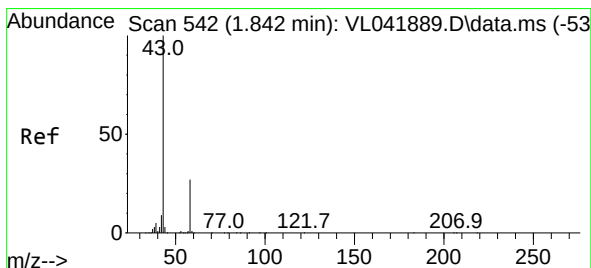
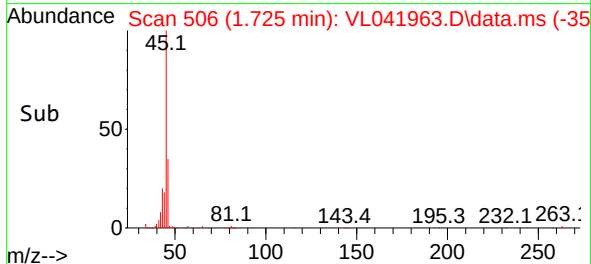
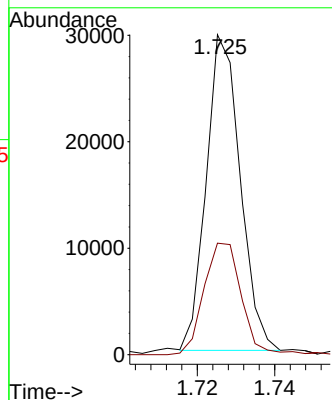
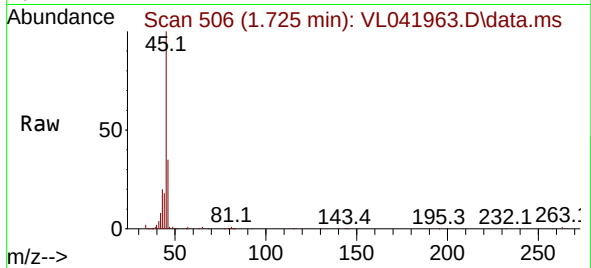




#13
 Ethanol
 Concen: 26.124 ppbv
 RT: 1.725 min Scan# 506
 Delta R.T. -0.000 min
 Lab File: VL041963.D
 Acq: 03 Feb 2025 14:28

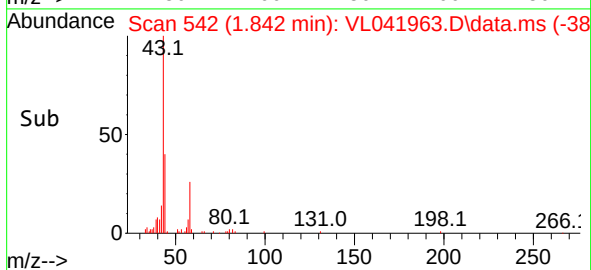
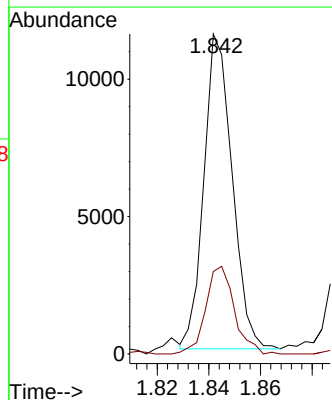
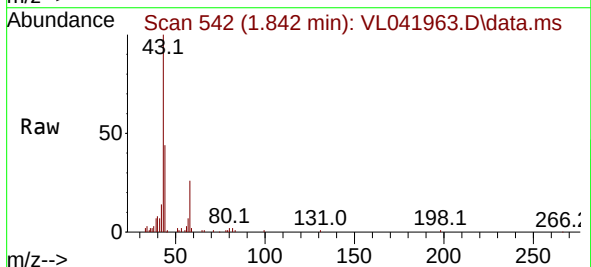
Instrument :
 MSVOA_L
 ClientSampleId :

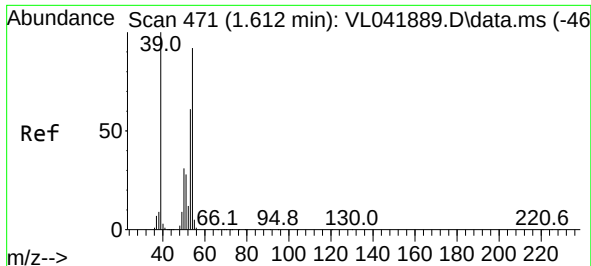
Tgt Ion: 45 Resp: 18048
 Ion Ratio Lower Upper
 45 100
 46 39.3 18.1 72.5



#15
 Acetone
 Concen: 0.453 ppbv
 RT: 1.842 min Scan# 542
 Delta R.T. -0.000 min
 Lab File: VL041963.D
 Acq: 03 Feb 2025 14:28

Tgt Ion: 43 Resp: 8731
 Ion Ratio Lower Upper
 43 100
 58 28.6 21.9 32.9

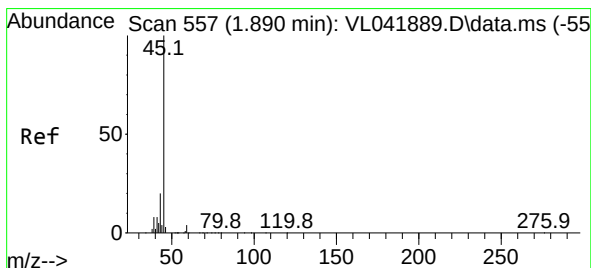
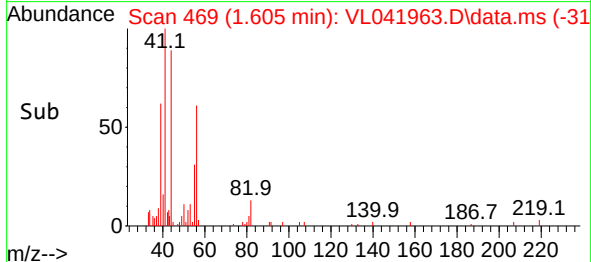
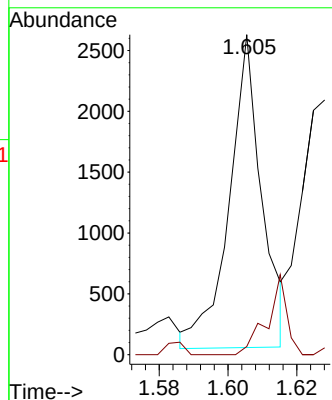
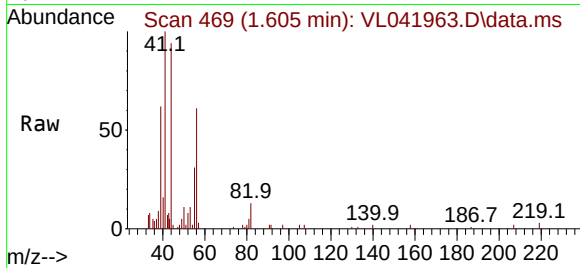




#16
1,3-Butadiene
Concen: 0.195 ppbv
RT: 1.605 min Scan# 41
Delta R.T. -0.007 min
Lab File: VL041963.D
Acq: 03 Feb 2025 14:28

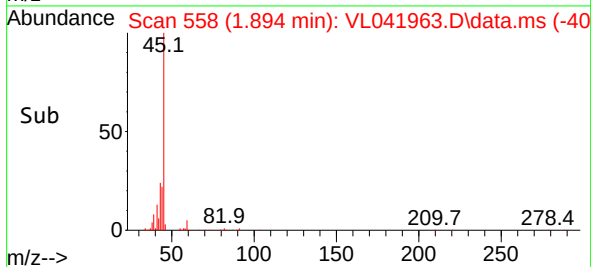
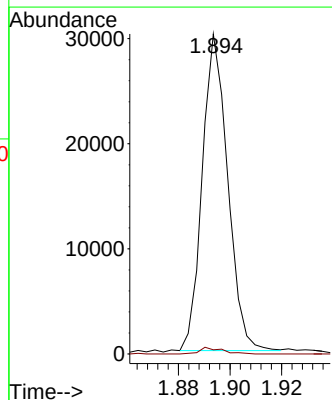
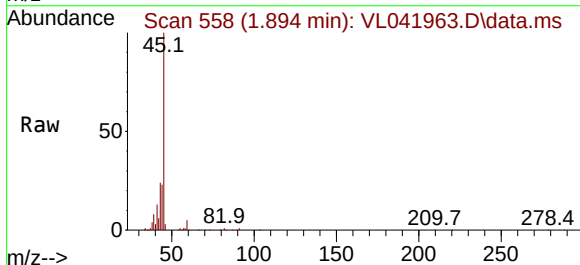
Instrument :
MSVOA_L
ClientSampleId :

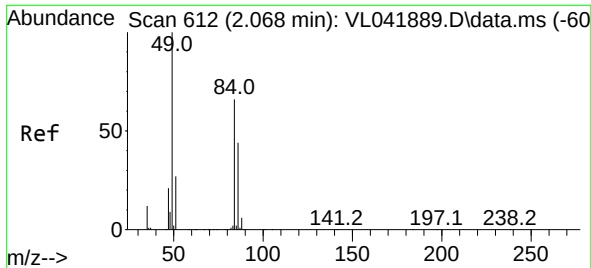
Tgt Ion: 39 Resp: 1687
Ion Ratio Lower Upper
39 100
54 20.3 61.6 92.4#



#19
Isopropyl Alcohol
Concen: 1.804 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.003 min
Lab File: VL041963.D
Acq: 03 Feb 2025 14:28

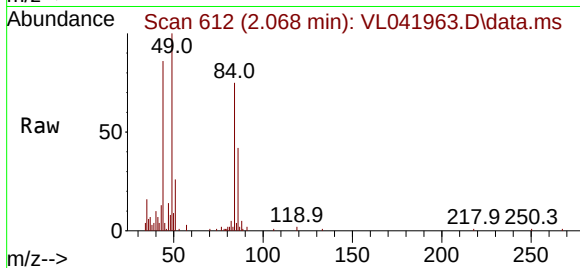
Tgt Ion: 45 Resp: 20618
Ion Ratio Lower Upper
45 100
58 1.9 35.0 52.6#



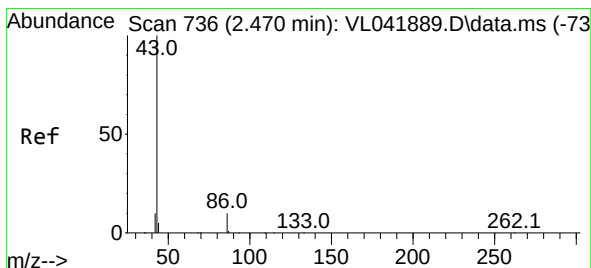
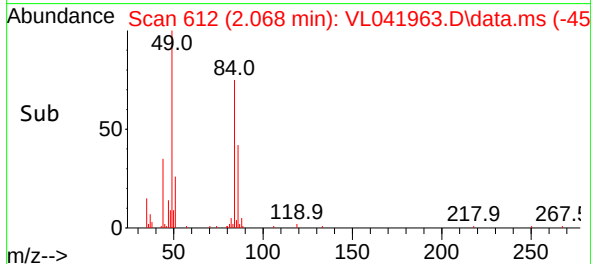
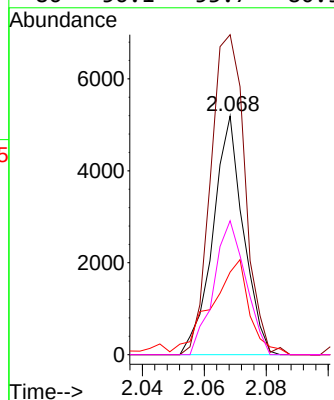


#20
Methylene Chloride
Concen: 0.465 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL041963.D
Acq: 03 Feb 2025 14:28

Instrument :
MSVOA_L
ClientSampleId :

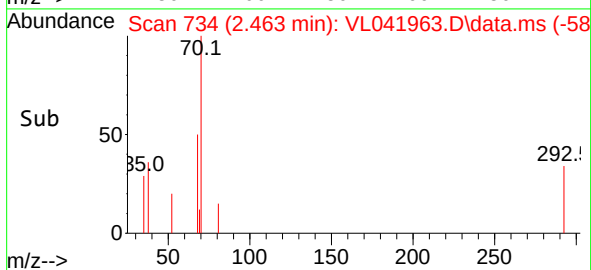
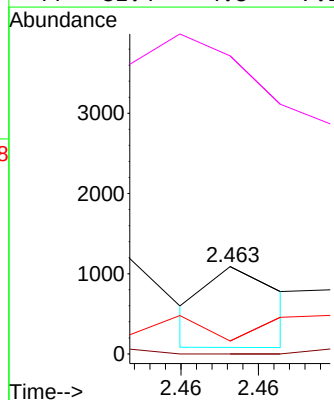
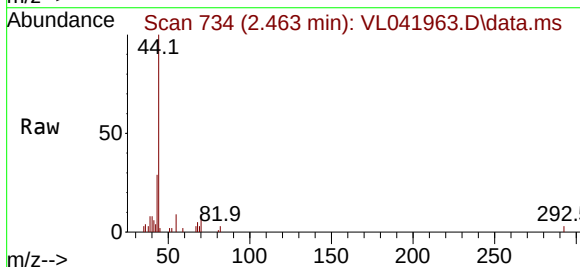


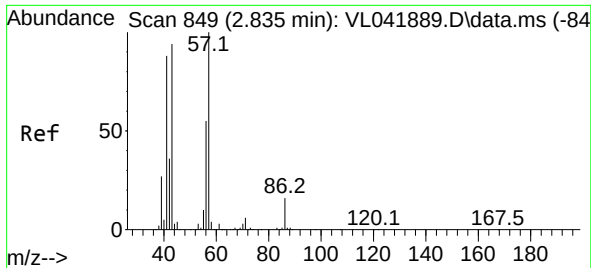
Tgt Ion: 84	Resp: 3545
Ion Ratio	Lower Upper
84 100	
49 134.0	123.1 184.7
51 32.1	35.8 53.8#
86 56.1	53.7 80.5



#23
Vinyl Acetate
Concen: 0.035 ppbv
RT: 2.463 min Scan# 734
Delta R.T. -0.007 min
Lab File: VL041963.D
Acq: 03 Feb 2025 14:28

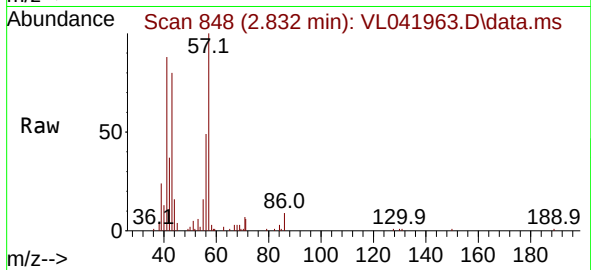
Tgt	Ion: 43	Resp:	330
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.2	9.4#
42	0.0	8.5	12.7#
44	81.4	4.8	7.2#



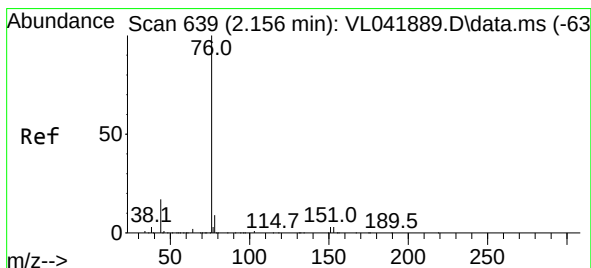
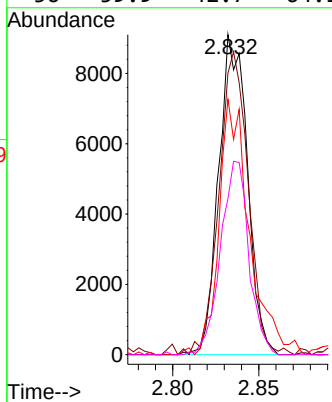
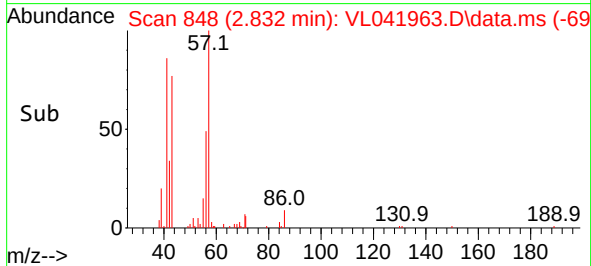


#26
Hexane
Concen: 0.512 ppbv
RT: 2.832 min Scan# 849
Delta R.T. -0.003 min
Lab File: VL041963.D
Acq: 03 Feb 2025 14:28

Instrument :
MSVOA_L
ClientSampleId :

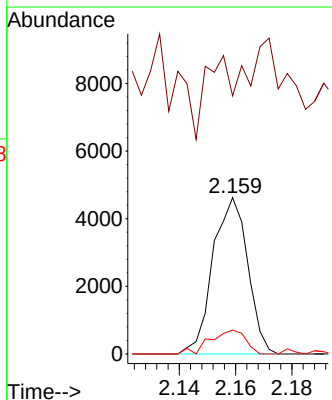
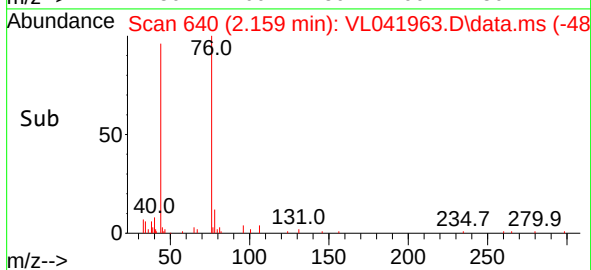
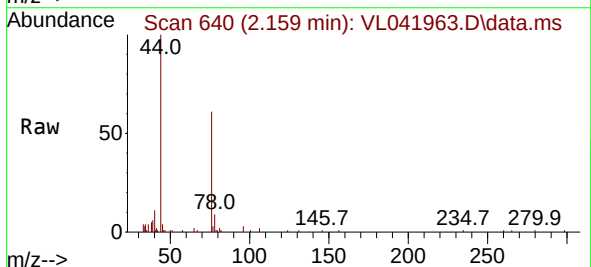


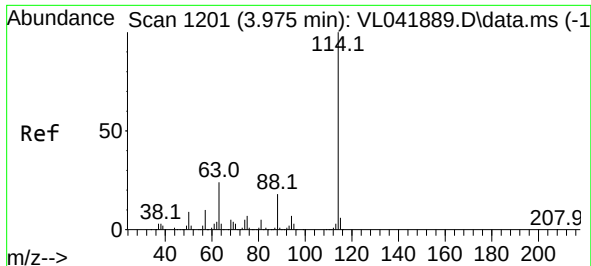
Tgt Ion: 57	Resp: 10532
Ion Ratio	Lower Upper
57 100	
41 100.8	73.8 110.8
43 84.7	197.3 295.9#
56 59.9	42.7 64.1



#27
Carbon Disulfide
Concen: 0.195 ppbv
RT: 2.159 min Scan# 640
Delta R.T. 0.003 min
Lab File: VL041963.D
Acq: 03 Feb 2025 14:28

Tgt Ion: 76	Resp: 3973		
Ion Ratio	Lower	Upper	
76 100			
44 351.4	15.4	23.0#	
78 19.4	9.3	13.9#	





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.971 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL041963.D

Acq: 03 Feb 2025 14:28

Instrument :

MSVOA_L

ClientSampleId :

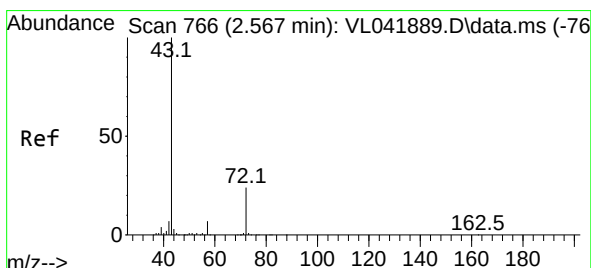
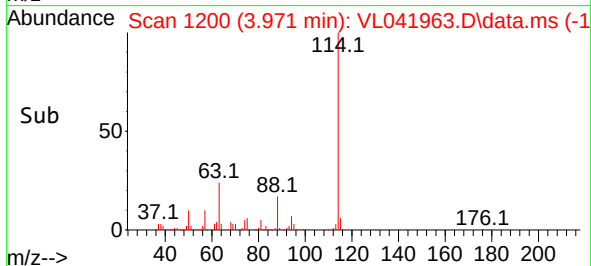
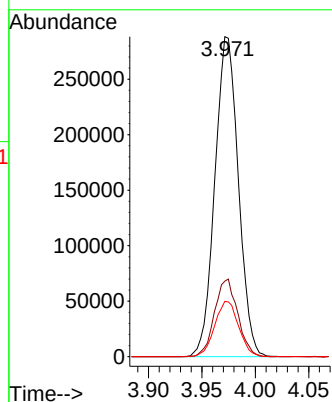
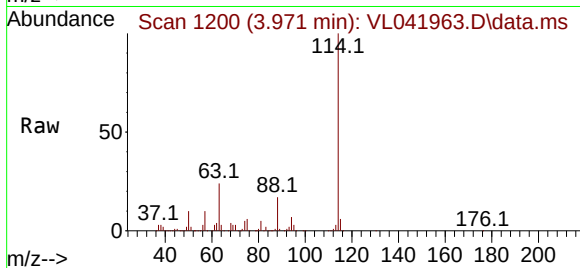
Tgt Ion:114 Resp: 441246

Ion Ratio Lower Upper

114 100

63 23.9 19.8 29.6

88 17.6 14.4 21.6



#34

2-Butanone

Concen: 0.074 ppbv

RT: 2.573 min Scan# 768

Delta R.T. 0.006 min

Lab File: VL041963.D

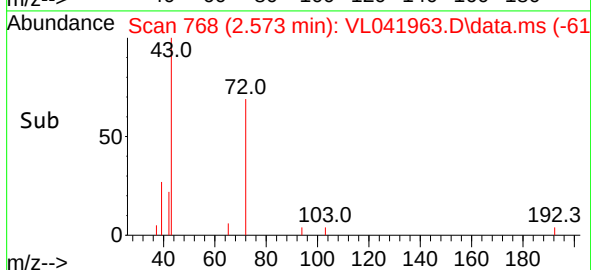
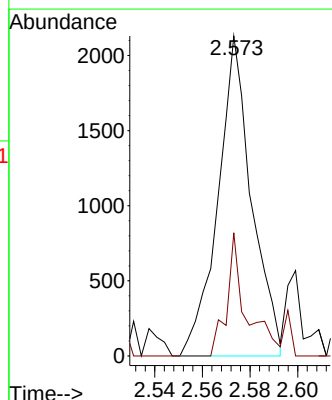
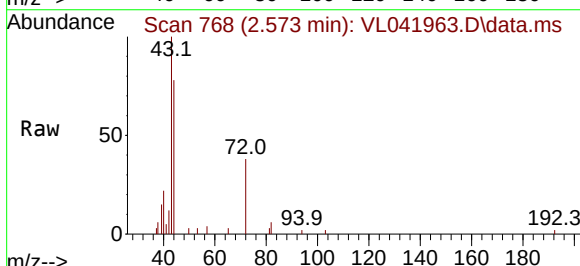
Acq: 03 Feb 2025 14:28

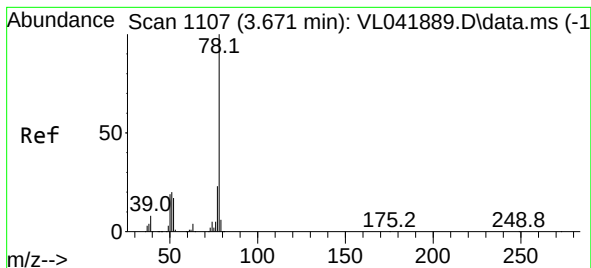
Tgt Ion: 43 Resp: 2089

Ion Ratio Lower Upper

43 100

72 25.1 18.6 28.0





#36

Benzene

Concen: 0.032 ppbv

RT: 3.667 min Scan# 1106

Delta R.T. -0.003 min

Lab File: VL041963.D

Acq: 03 Feb 2025 14:28

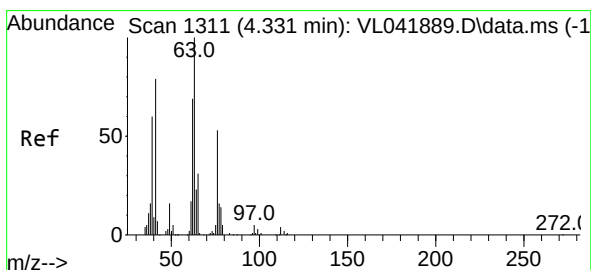
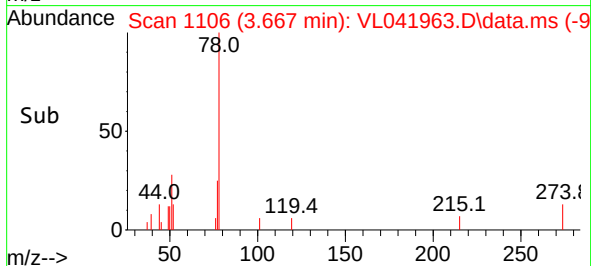
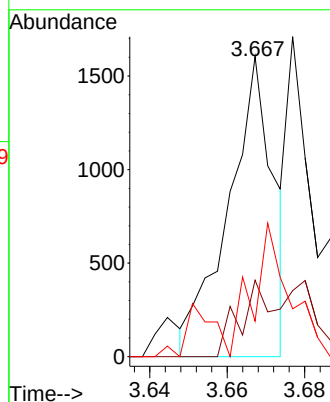
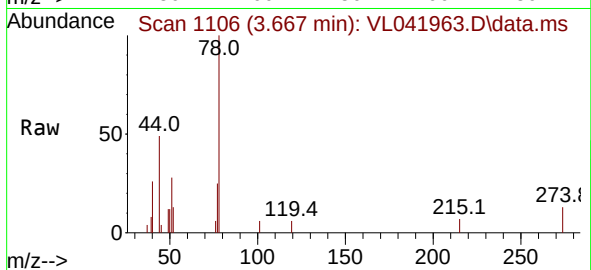
Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 78 Resp: 1288

Ion	Ratio	Lower	Upper
78	100		
77	28.1	18.1	27.1#
50	13.1	15.2	22.8#



#39

1,2-Dichloropropane

Concen: 7.435 ppbv

RT: 3.975 min Scan# 1201

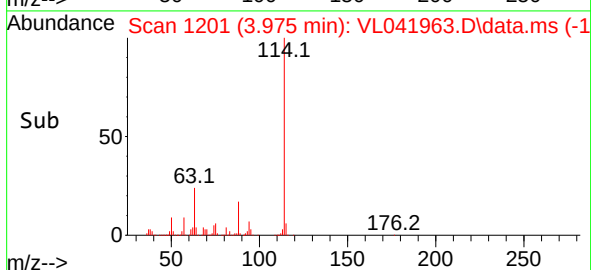
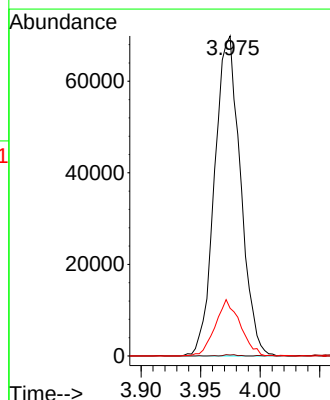
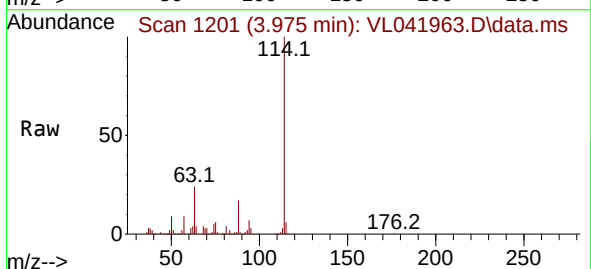
Delta R.T. -0.356 min

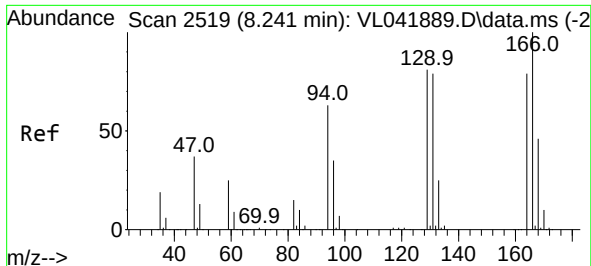
Lab File: VL041963.D

Acq: 03 Feb 2025 14:28

Tgt Ion: 63 Resp: 105552

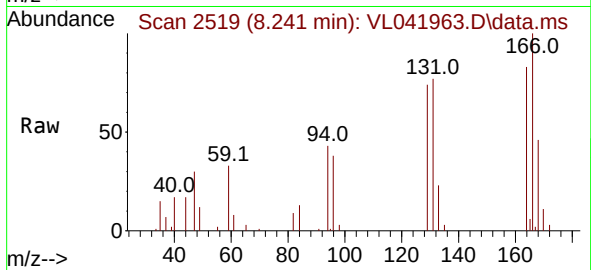
Ion	Ratio	Lower	Upper
63	100		
41	0.3	63.7	95.5#
62	14.9	55.4	83.2#





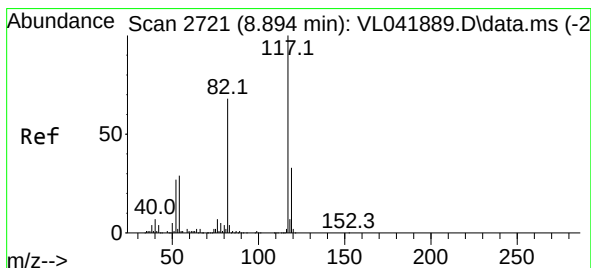
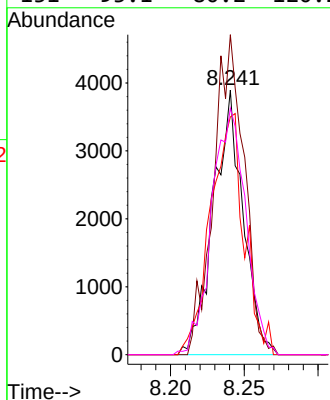
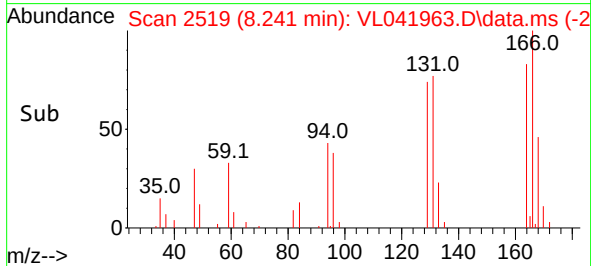
#52
Tetrachloroethene
Concen: 0.390 ppbv
RT: 8.241 min Scan# 2519
Delta R.T. -0.000 min
Lab File: VL041963.D
Acq: 03 Feb 2025 14:28

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion:164 Resp: 5469

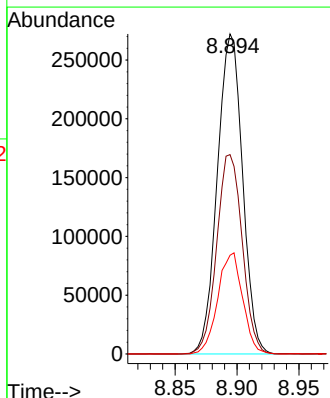
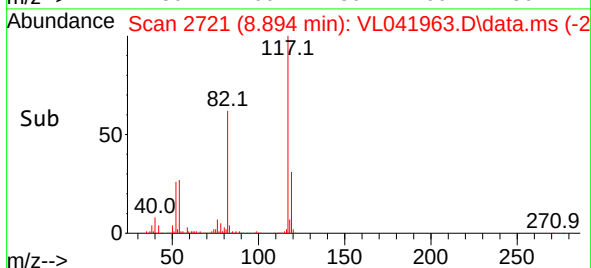
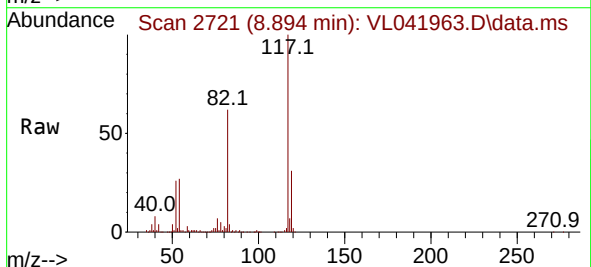
Ion	Ratio	Lower	Upper
164	100		
166	120.9	100.8	151.2
129	89.9	82.0	123.0
131	93.1	80.2	120.2

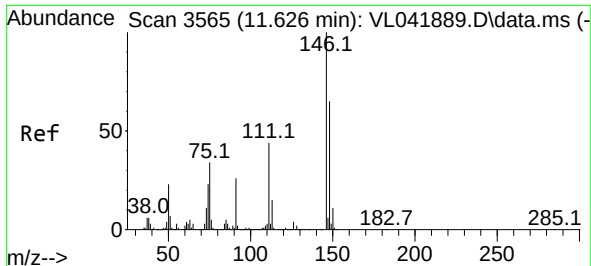


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.894 min Scan# 2721
Delta R.T. -0.000 min
Lab File: VL041963.D
Acq: 03 Feb 2025 14:28

Tgt Ion:117 Resp: 386755

Ion	Ratio	Lower	Upper
117	100		
82	63.0	54.2	81.4
119	31.1	25.0	37.6

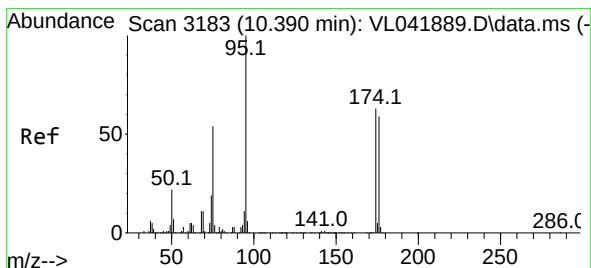
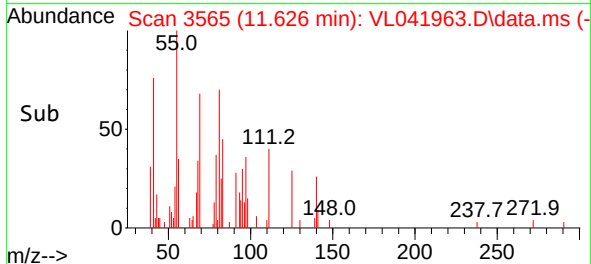
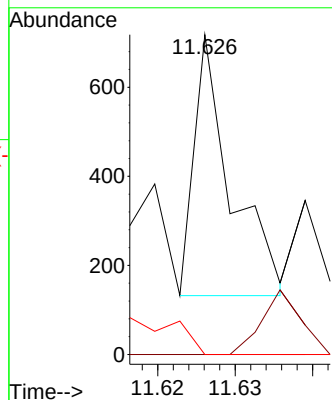
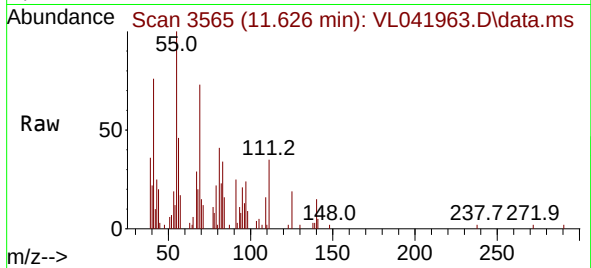




#66
Benzyl Chloride
Concen: 0.046 ppbv
RT: 11.626 min Scan# 3182
Delta R.T. -0.000 min
Lab File: VL041963.D
Acq: 03 Feb 2025 14:28

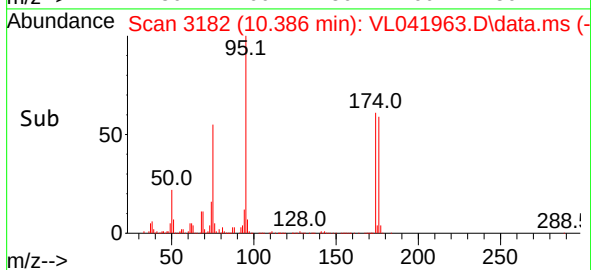
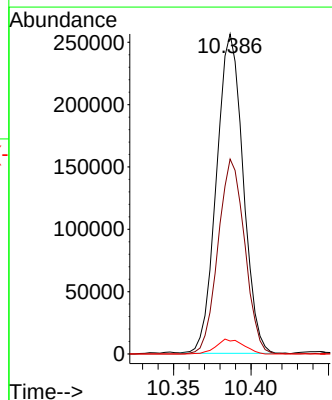
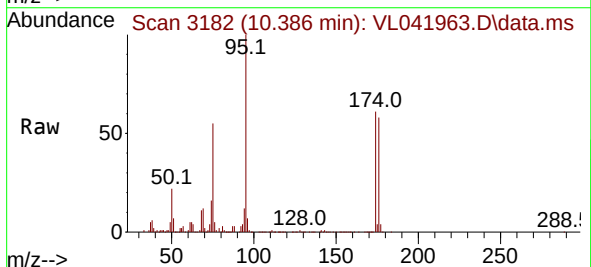
Instrument :
MSVOA_L
ClientSampleId :

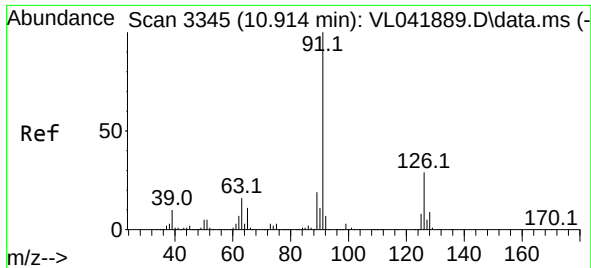
Tgt Ion: 91 Resp: 194
Ion Ratio Lower Upper
91 100
126 0.0 14.1 21.1#
128 0.0 4.3 6.5#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.067 ppbv
RT: 10.386 min Scan# 3182
Delta R.T. -0.003 min
Lab File: VL041963.D
Acq: 03 Feb 2025 14:28

Tgt Ion: 95 Resp: 306667
Ion Ratio Lower Upper
95 100
174 61.2 49.0 73.4
175 4.8 3.8 5.8





#71
 2-Chlorotoluene
 Concen: 0.041 ppbv
 RT: 11.001 min Scan# 31
 Delta R.T. 0.087 min
 Lab File: VL041963.D
 Acq: 03 Feb 2025 14:28

Instrument :
 MSVOA_L
 ClientSampleId :

Tgt Ion: 91 Resp: 2240
 Ion Ratio Lower Upper
 91 100
 126 15.8 11.7 46.7

