

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL060525\
 Data File : VL042620.D
 Acq On : 05 Jun 2025 13:45
 Operator : SY/MD
 Sample : Q2126-15 MDL 0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2025

Quant Time: Jun 06 01:42:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

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

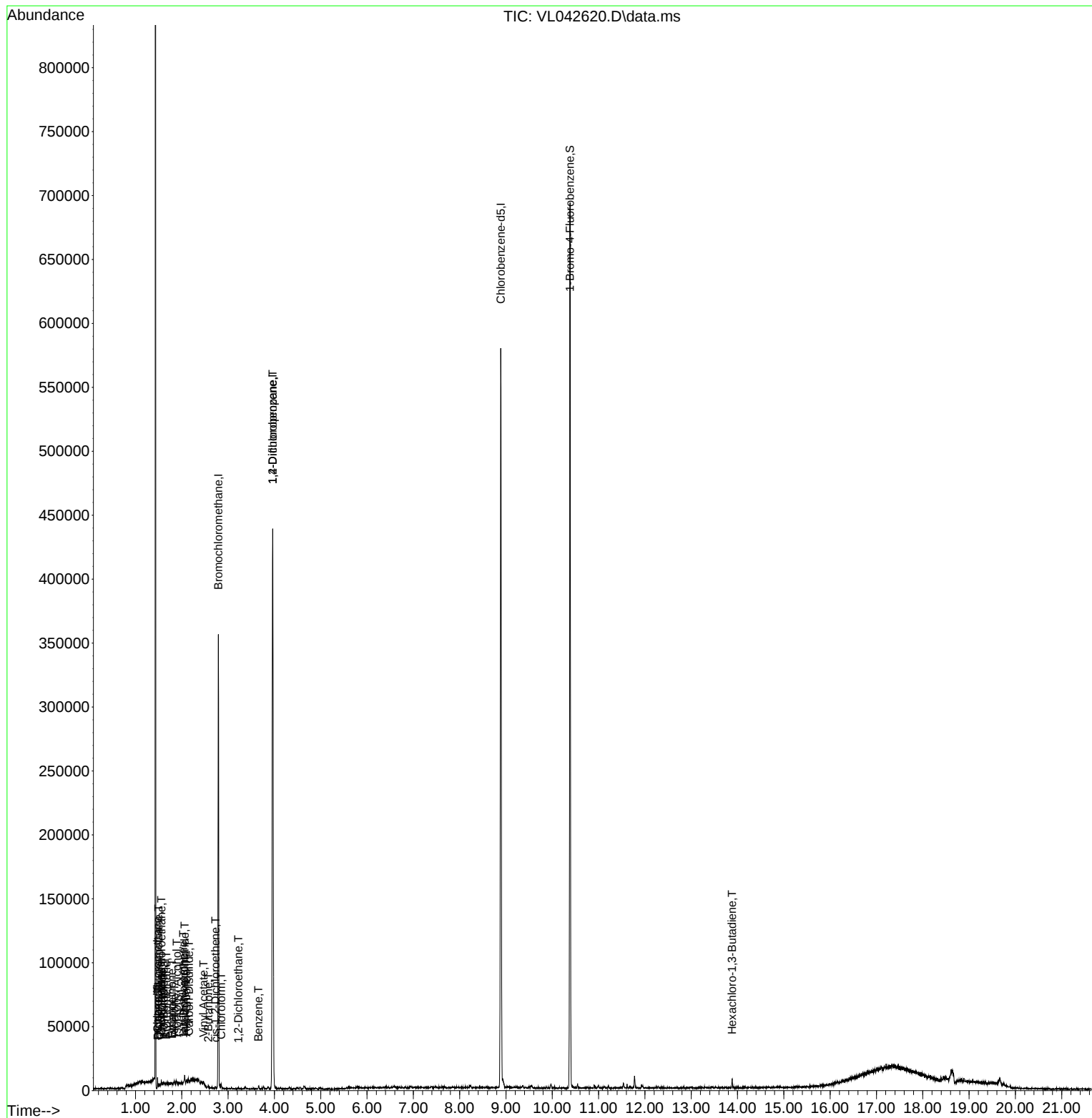
Internal Standards						
1) Bromochloromethane	2.790	49	102633	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	258858	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	230818	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	175866	10.164	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	473	0.037	ppbv #	74
3) Chlorodifluoromethane	1.476	51	2748	0.158	ppbv	96
4) Chloromethane	1.535	50	268	0.054	ppbv #	77
5) Vinyl Chloride	1.580	62	180	0.035	ppbv #	73
6) Bromomethane	1.670	94	82	0.033	ppbv #	29
8) Dichlorotetrafluoroethane	1.557	85	366	0.035	ppbv	95
9) Propene	1.483	41	398	0.057	ppbv #	34
13) Ethanol	1.787	45	347	0.416	ppbv #	39
14) Bromoethene	1.784	108	171	0.049	ppbv #	69
15) Acetone	1.839	43	1410	0.114	ppbv	95
16) 1,3-Butadiene	1.609	39	462	0.079	ppbv #	64
17) tert-Butyl alcohol	2.049	59	407	0.032	ppbv #	66
18) 1,1-Dichloroethene	2.033	96	180	0.042	ppbv #	52
19) Isopropyl Alcohol	1.891	45	644	0.087	ppbv #	56
20) Methylene Chloride	2.062	84	853	0.209	ppbv	98
21) Allyl Chloride	2.098	41	464	0.053	ppbv #	36
23) Vinyl Acetate	2.467	43	734	0.044	ppbv #	63
27) Carbon Disulfide	2.153	76	443	0.038	ppbv #	1
29) Chloroform	2.852	83	766	0.038	ppbv	88
31) cis-1,2-Dichloroethene	2.729	61	437	0.031	ppbv #	66
34) 2-Butanone	2.570	43	880	0.048	ppbv #	91
36) Benzene	3.655	78	825	0.032	ppbv #	81
37) 1,2-Dichloroethane	3.221	62	549	0.043	ppbv	98
39) 1,2-Dichloropropane	3.962	63	66500	7.054	ppbv #	23
78) Hexachloro-1,3-Butadiene	13.882	225	614	0.035	ppbv	93

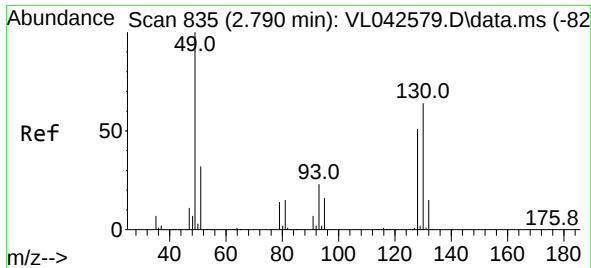
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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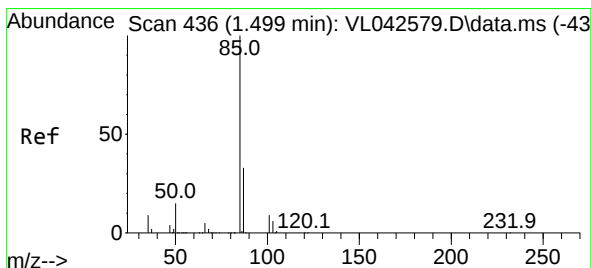
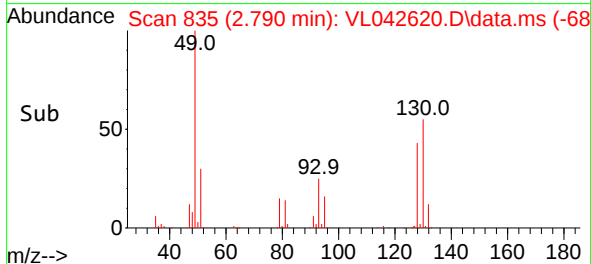
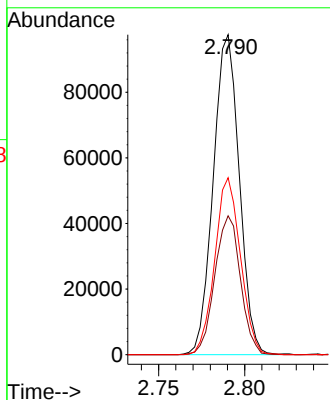
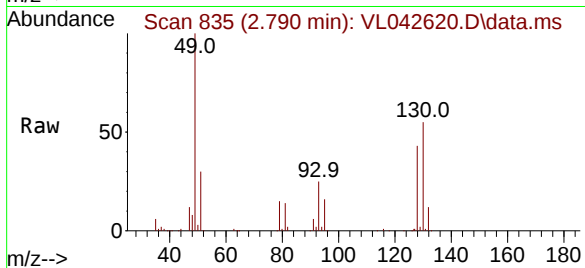




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.790 min Scan# 835
 Delta R.T. 0.000 min
 Lab File: VL042620.D
 Acq: 05 Jun 2025 13:45

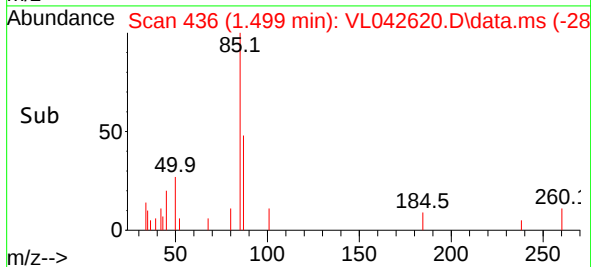
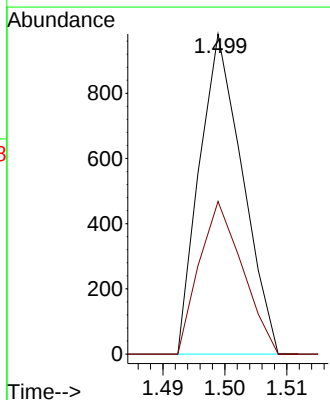
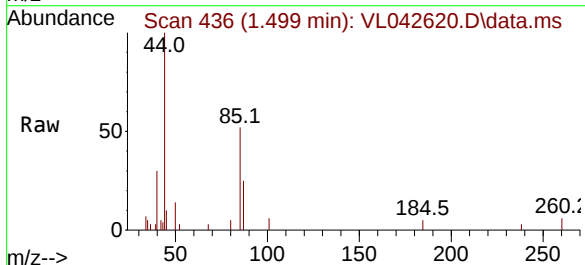
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2025

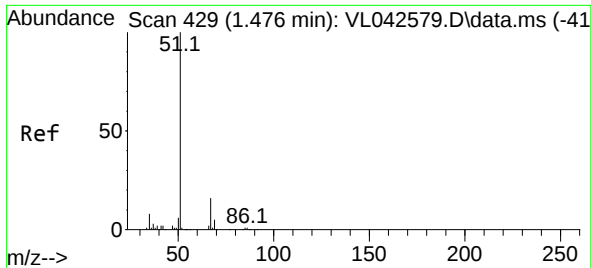
Tgt Ion: 49 Resp: 102633
 Ion Ratio Lower Upper
 49 100
 128 42.8 24.2 72.6
 130 54.6 30.4 91.2



#2
 Dichlorodifluoromethane
 Concen: 0.037 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.000 min
 Lab File: VL042620.D
 Acq: 05 Jun 2025 13:45

Tgt Ion: 85 Resp: 473
 Ion Ratio Lower Upper
 85 100
 87 47.7 26.6 39.8#

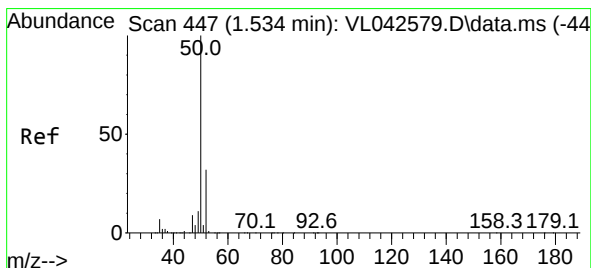
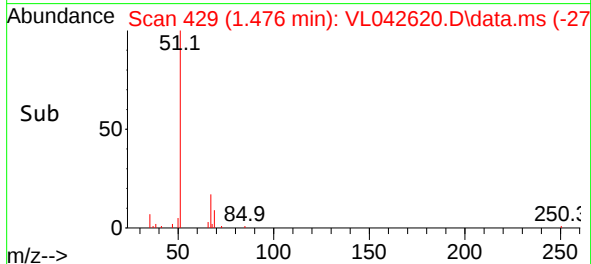
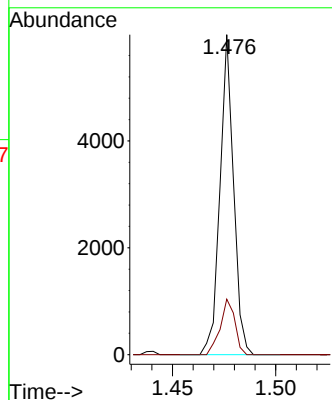
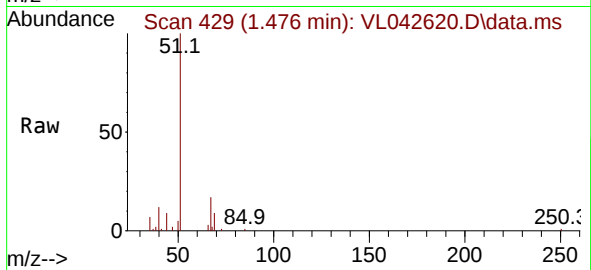




#3
Chlorodifluoromethane
Concen: 0.158 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042620.D
Acq: 05 Jun 2025 13:45

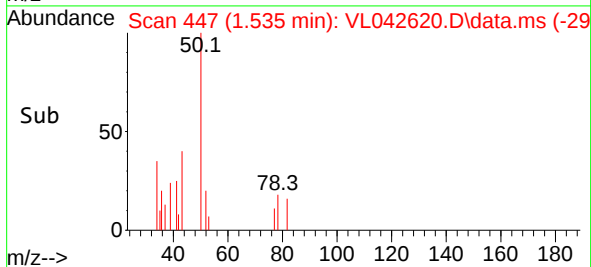
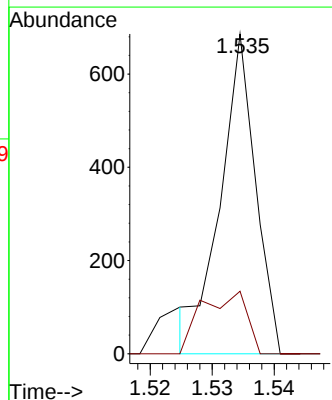
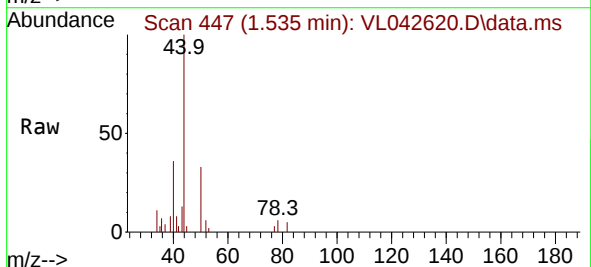
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2025

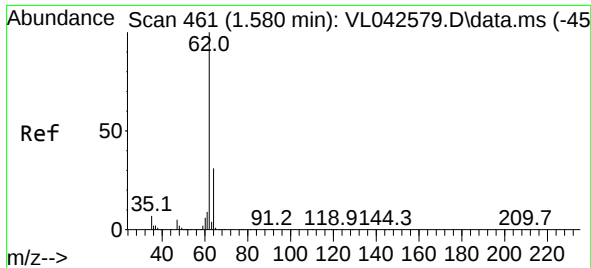
Tgt Ion: 51 Resp: 2748
Ion Ratio Lower Upper
51 100
67 18.6 13.4 20.2



#4
Chloromethane
Concen: 0.054 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042620.D
Acq: 05 Jun 2025 13:45

Tgt Ion: 50 Resp: 268
Ion Ratio Lower Upper
50 100
52 19.5 25.8 38.6#

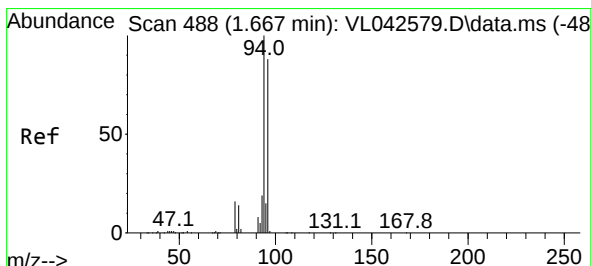
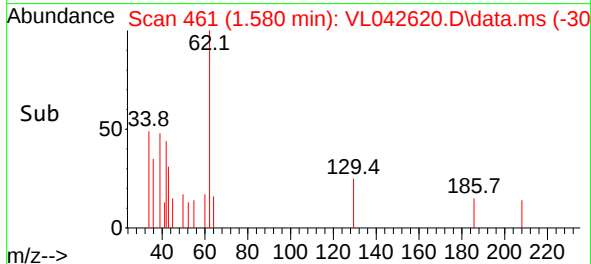
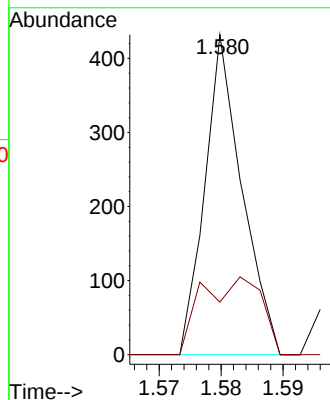
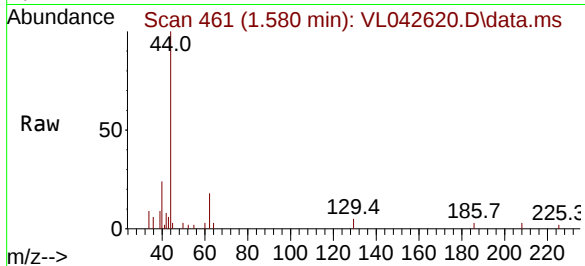




#5
 Vinyl Chloride
 Concen: 0.035 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042620.D
 Acq: 05 Jun 2025 13:45

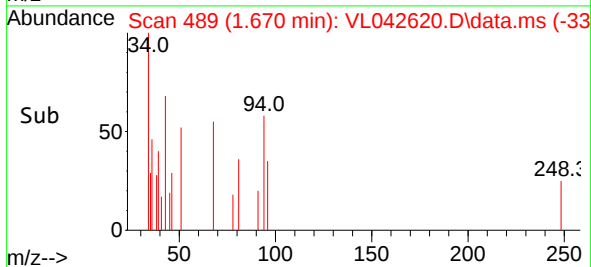
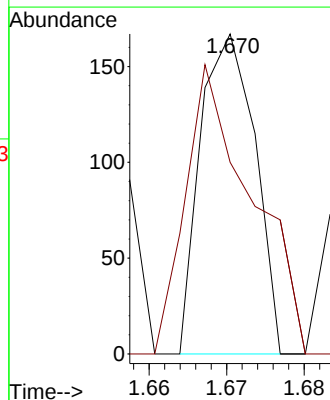
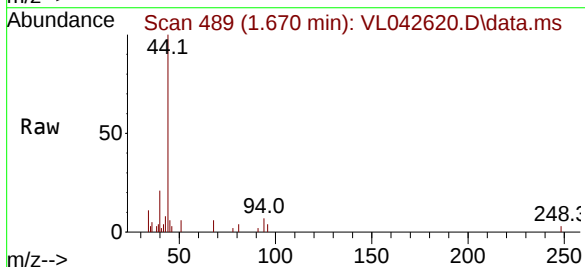
Instrument :
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 ClientSampleId :
 MDL-AIR-03-QT2-2025

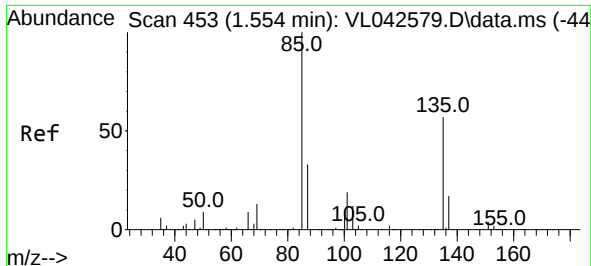
Tgt Ion: 62 Resp: 180
 Ion Ratio Lower Upper
 62 100
 64 16.4 24.9 37.3#



#6
 Bromomethane
 Concen: 0.033 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.003 min
 Lab File: VL042620.D
 Acq: 05 Jun 2025 13:45

Tgt Ion: 94 Resp: 82
 Ion Ratio Lower Upper
 94 100
 96 22.2 70.7 106.1#

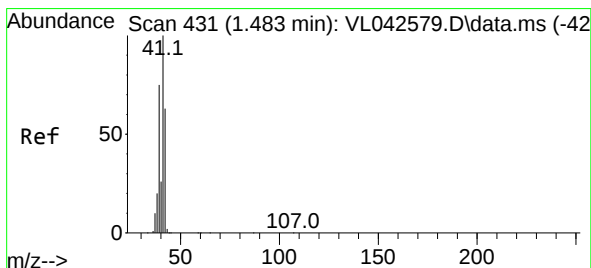
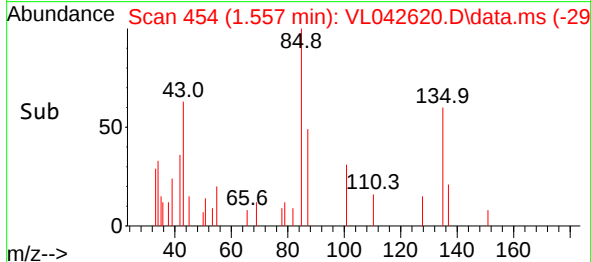
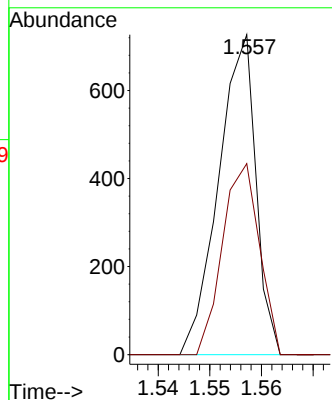
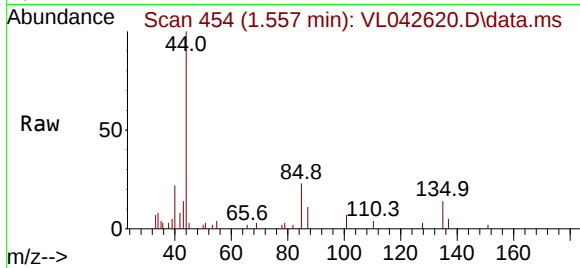




#8
 Dichlorotetrafluoroethane
 Concen: 0.035 ppbv
 RT: 1.557 min Scan# 415
 Delta R.T. 0.003 min
 Lab File: VL042620.D
 Acq: 05 Jun 2025 13:45

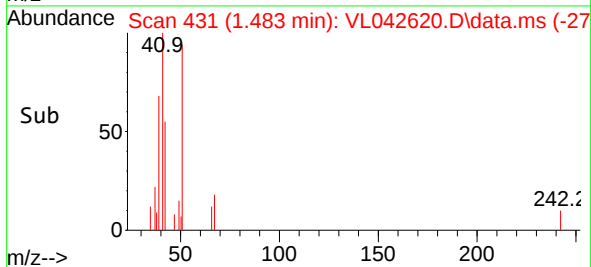
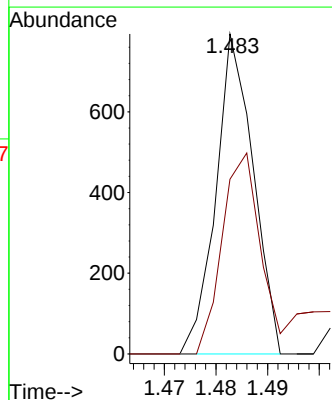
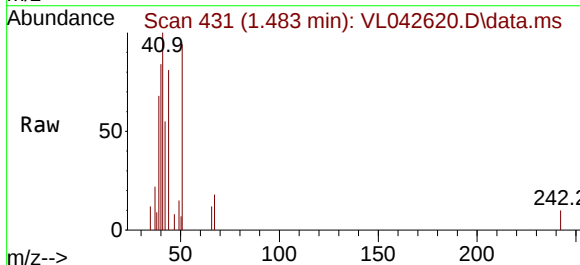
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2025

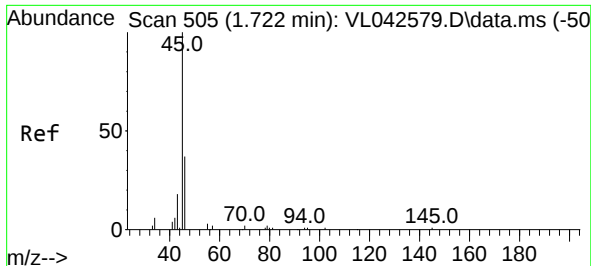
Tgt Ion: 85 Resp: 366
 Ion Ratio Lower Upper
 85 100
 135 59.3 50.2 75.4



#9
 Propene
 Concen: 0.057 ppbv
 RT: 1.483 min Scan# 431
 Delta R.T. 0.000 min
 Lab File: VL042620.D
 Acq: 05 Jun 2025 13:45

Tgt Ion: 41 Resp: 398
 Ion Ratio Lower Upper
 41 100
 42 119.6 53.3 79.9#





#13

Ethanol

Concen: 0.416 ppbv

RT: 1.787 min Scan# 51

Delta R.T. 0.065 min

Lab File: VL042620.D

Acq: 05 Jun 2025 13:45

Instrument :

MSVOA_L

ClientSampleId :

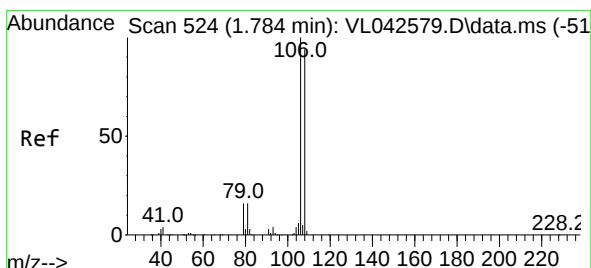
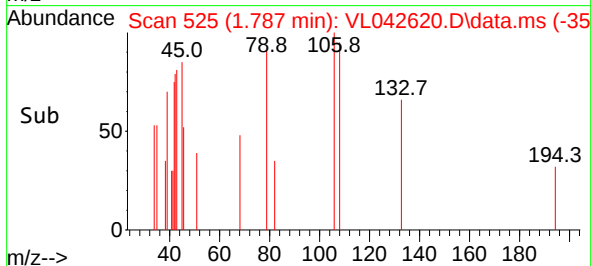
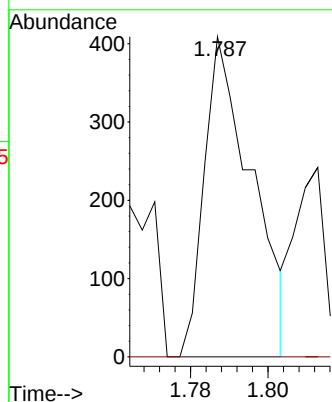
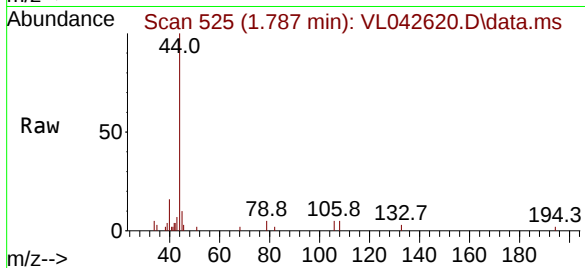
MDL-AIR-03-QT2-2025

Tgt Ion: 45 Resp: 347

Ion Ratio Lower Upper

45 100

46 0.0 14.5 58.1#



#14

Bromoethene

Concen: 0.049 ppbv

RT: 1.784 min Scan# 524

Delta R.T. 0.000 min

Lab File: VL042620.D

Acq: 05 Jun 2025 13:45

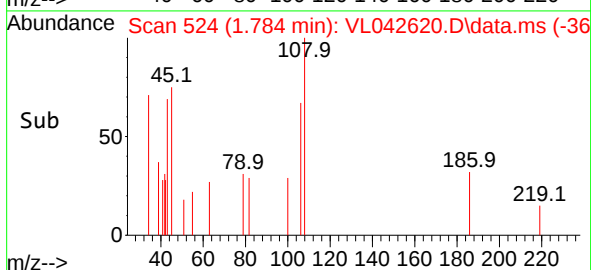
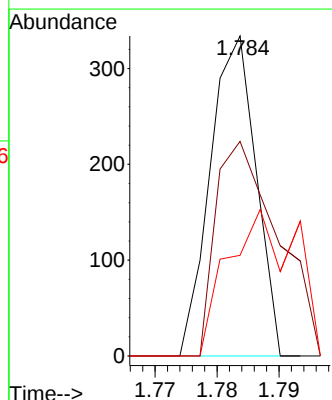
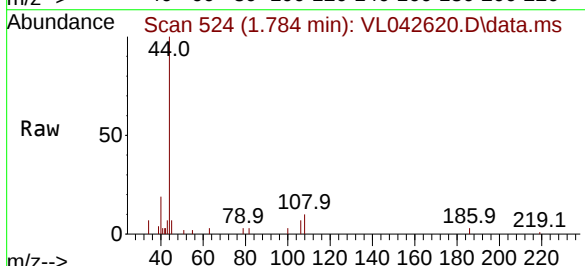
Tgt Ion: 108 Resp: 171

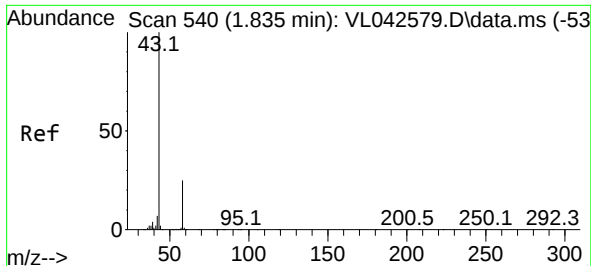
Ion Ratio Lower Upper

108 100

106 91.2 87.9 131.9

79 66.7 15.6 23.4#

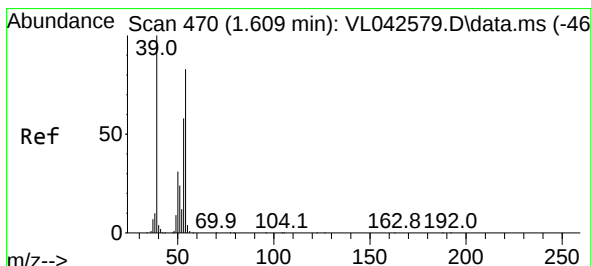
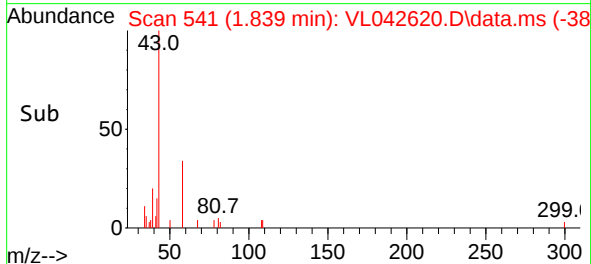
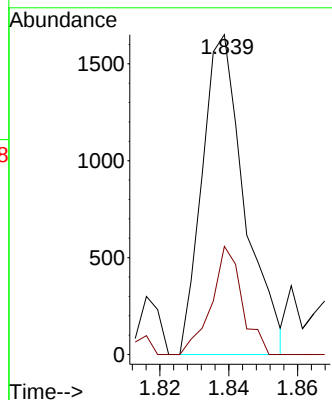
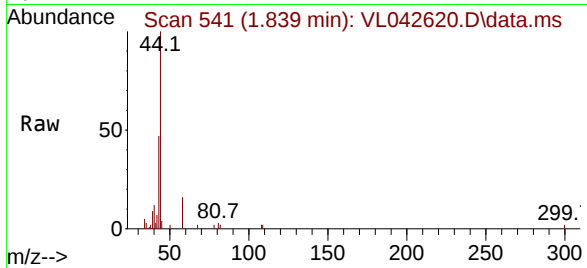




#15
Acetone
Concen: 0.114 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042620.D
Acq: 05 Jun 2025 13:45

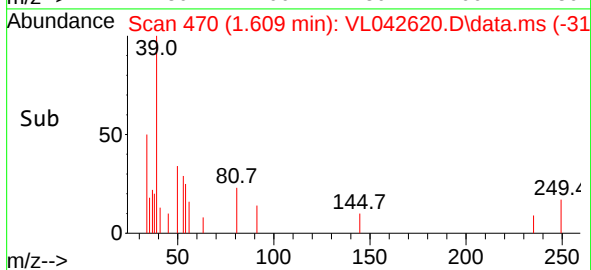
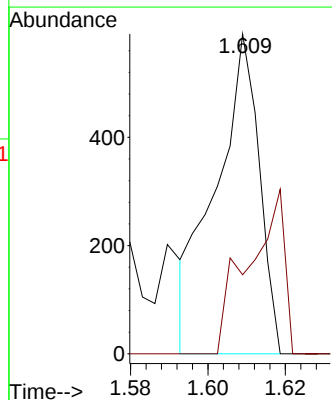
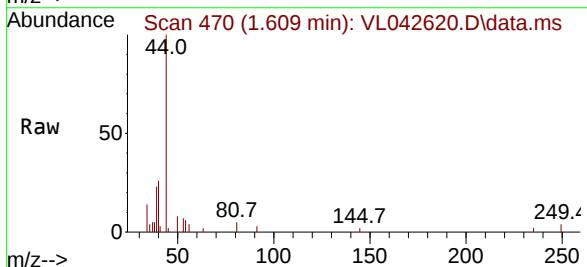
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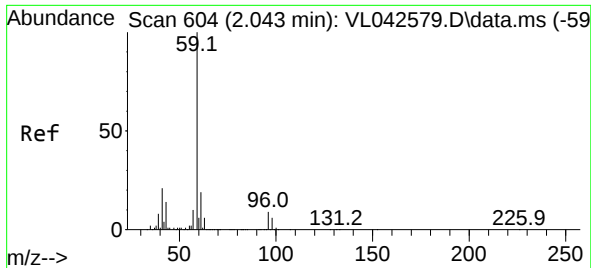
Tgt Ion: 43 Resp: 1410
Ion Ratio Lower Upper
43 100
58 28.8 21.0 31.4



#16
1,3-Butadiene
Concen: 0.079 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042620.D
Acq: 05 Jun 2025 13:45

Tgt Ion: 39 Resp: 462
Ion Ratio Lower Upper
39 100
54 42.6 57.9 86.9#





#17

tert-Butyl alcohol

Concen: 0.032 ppbv

RT: 2.049 min Scan# 604

Delta R.T. 0.007 min

Lab File: VL042620.D

Acq: 05 Jun 2025 13:45

Instrument :

MSVOA_L

ClientSampleId :

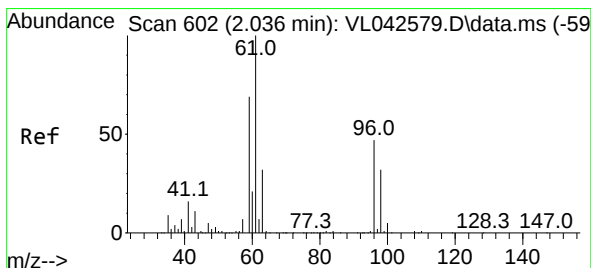
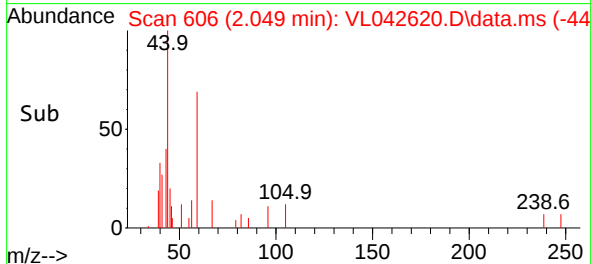
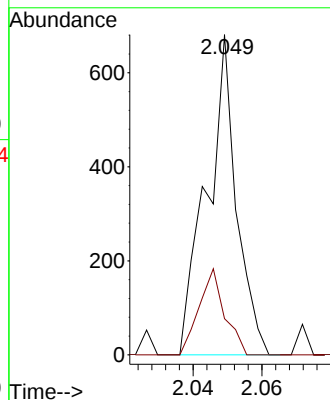
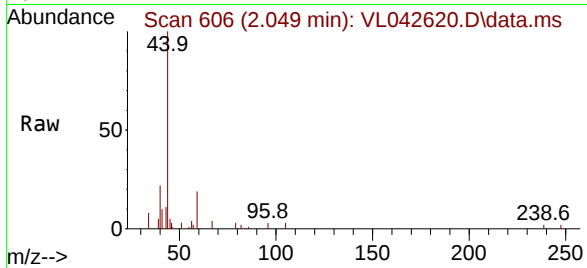
MDL-AIR-03-QT2-2025

Tgt Ion: 59 Resp: 407

Ion Ratio Lower Upper

59 100

57 23.3 8.6 12.8#



#18

1,1-Dichloroethene

Concen: 0.042 ppbv

RT: 2.033 min Scan# 601

Delta R.T. -0.003 min

Lab File: VL042620.D

Acq: 05 Jun 2025 13:45

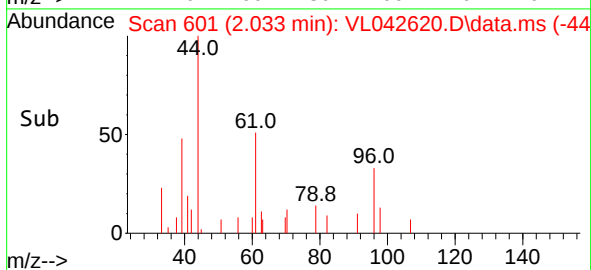
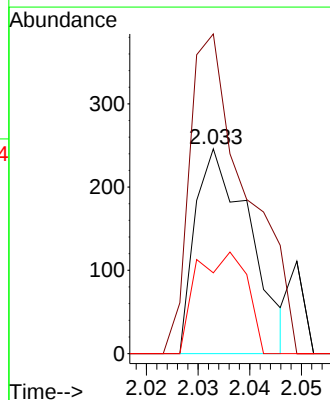
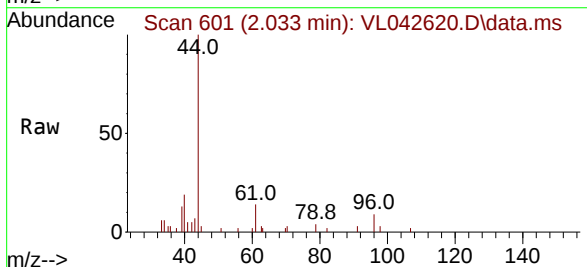
Tgt Ion: 96 Resp: 180

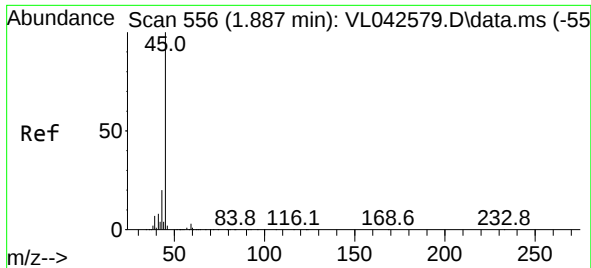
Ion Ratio Lower Upper

96 100

61 131.3 171.1 256.7#

98 39.4 54.4 81.6#





#19

Isopropyl Alcohol

Concen: 0.087 ppbv

RT: 1.891 min Scan# 5

Delta R.T. 0.003 min

Lab File: VL042620.D

Acq: 05 Jun 2025 13:45

Instrument :

MSVOA_L

ClientSampleId :

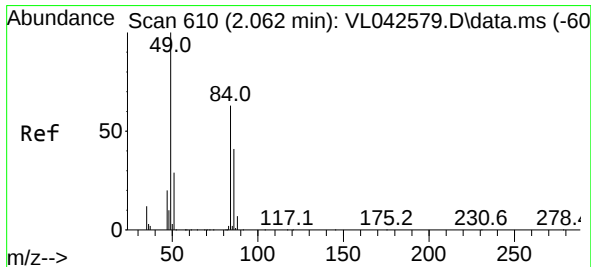
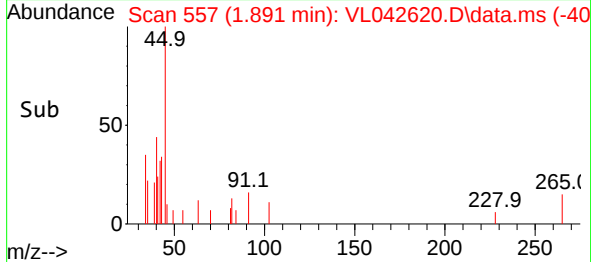
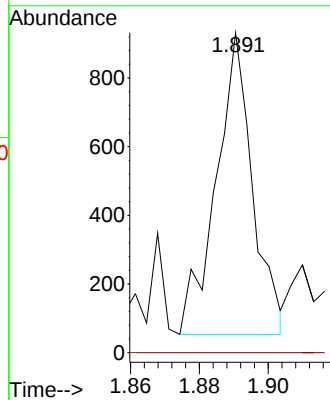
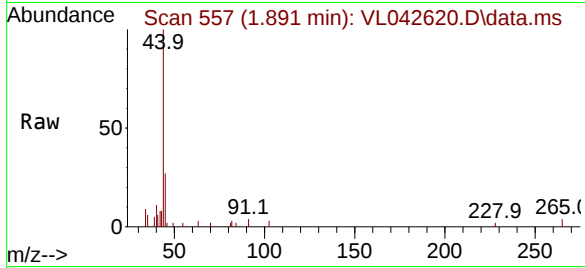
MDL-AIR-03-QT2-2025

Tgt Ion: 45 Resp: 644

Ion Ratio Lower Upper

45 100

58 63.0 29.4 44.2#



#20

Methylene Chloride

Concen: 0.209 ppbv

RT: 2.062 min Scan# 610

Delta R.T. 0.000 min

Lab File: VL042620.D

Acq: 05 Jun 2025 13:45

Tgt Ion: 84 Resp: 853

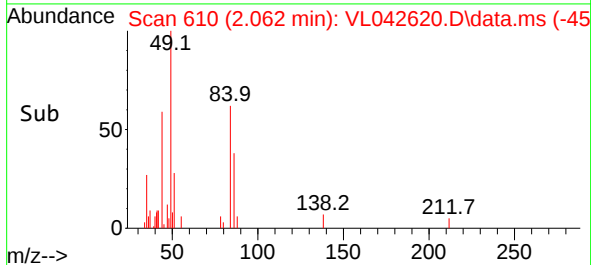
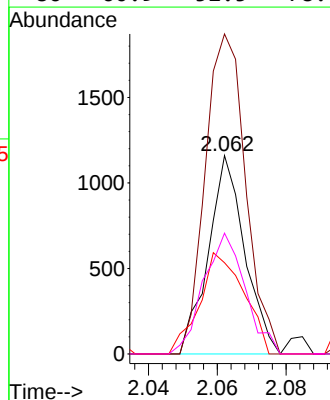
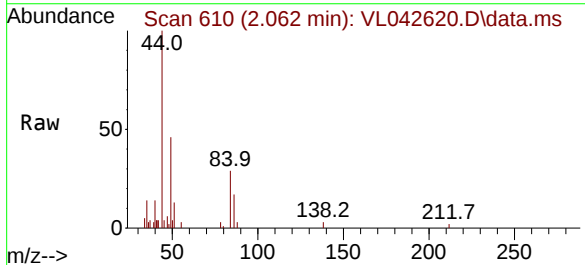
Ion Ratio Lower Upper

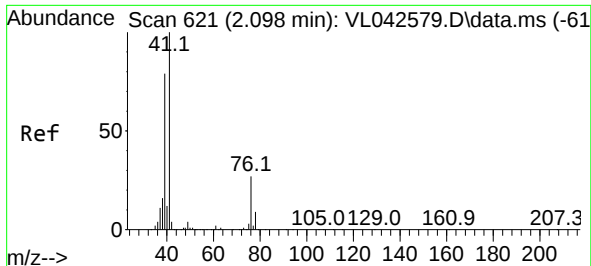
84 100

49 161.3 128.8 193.2

51 45.9 38.6 57.8

86 60.9 52.5 78.7

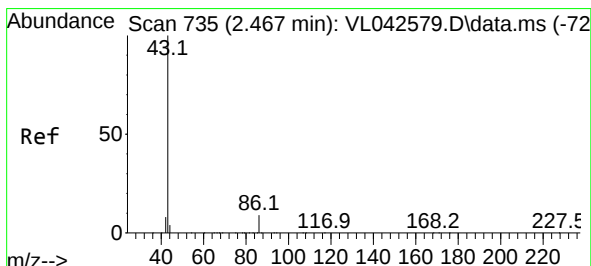
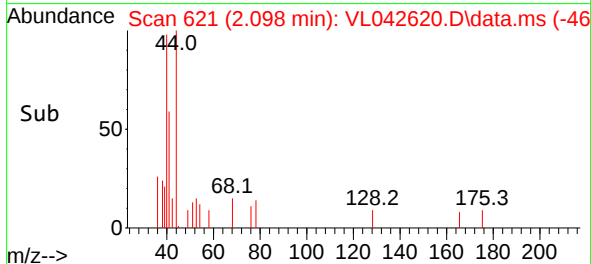
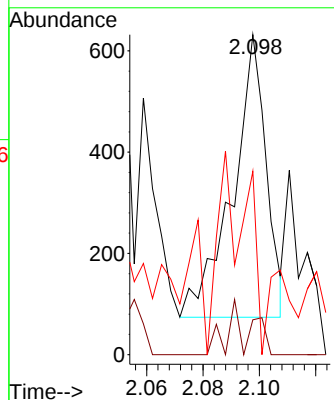
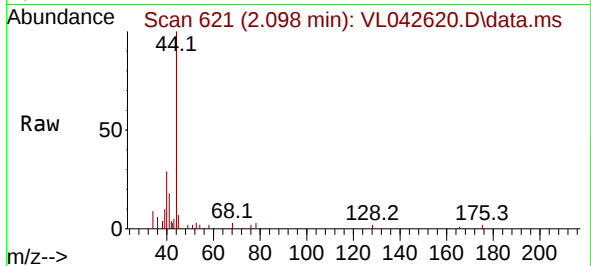




#21
 Allyl Chloride
 Concen: 0.053 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042620.D
 Acq: 05 Jun 2025 13:45

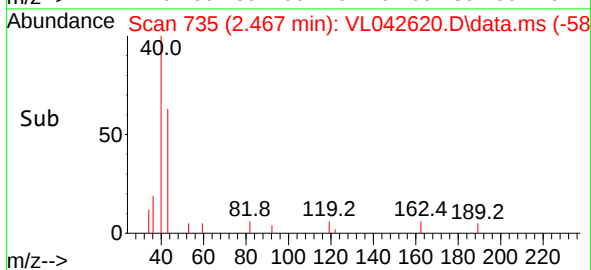
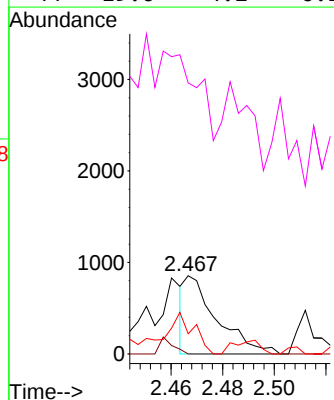
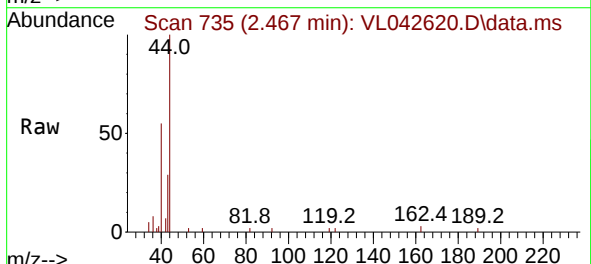
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2025

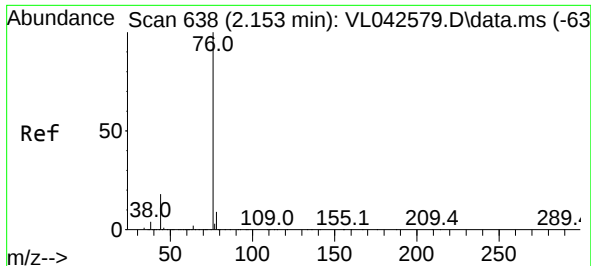
Tgt Ion: 41 Resp: 464
 Ion Ratio Lower Upper
 41 100
 76 12.9 21.2 31.8#
 39 142.5 60.9 91.3#



#23
 Vinyl Acetate
 Concen: 0.044 ppbv
 RT: 2.467 min Scan# 735
 Delta R.T. 0.000 min
 Lab File: VL042620.D
 Acq: 05 Jun 2025 13:45

Tgt Ion: 43 Resp: 734
 Ion Ratio Lower Upper
 43 100
 86 0.0 6.6 9.8#
 42 25.7 7.0 10.4#
 44 19.6 4.2 6.2#





#27

Carbon Disulfide

Concen: 0.038 ppbv

RT: 2.153 min Scan# 61

Delta R.T. 0.000 min

Lab File: VL042620.D

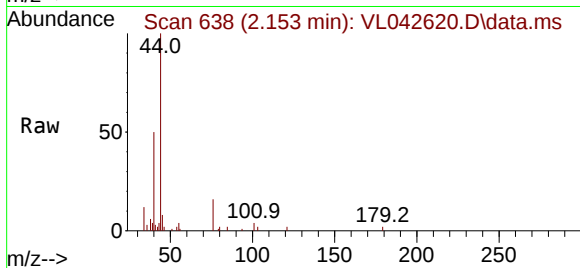
Acq: 05 Jun 2025 13:45

Instrument :

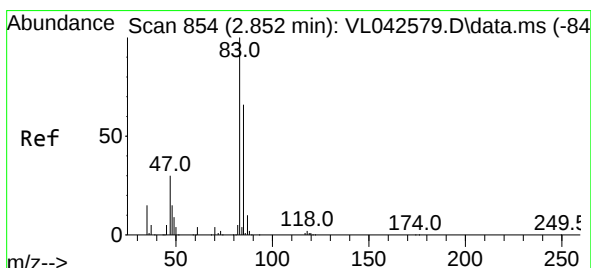
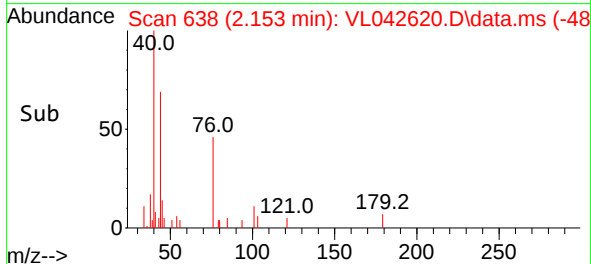
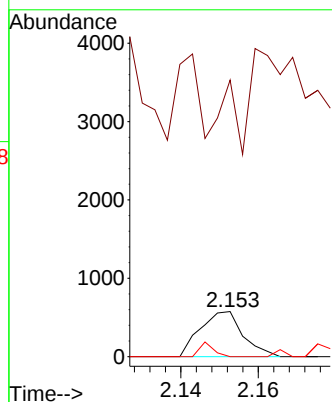
MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2025



Tgt Ion:	76	Resp:	443
Ion Ratio	Lower	Upper	
76	100		
44	940.4	21.3	31.9#
78	10.4	9.4	14.0



#29

Chloroform

Concen: 0.038 ppbv

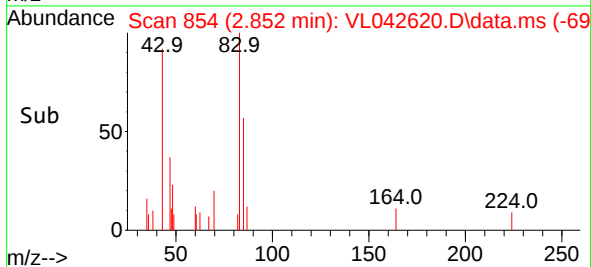
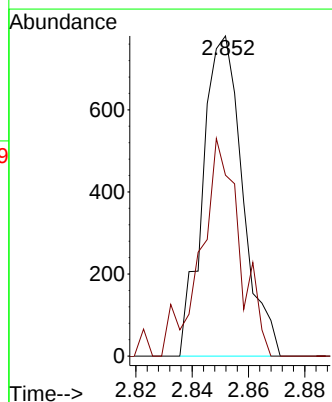
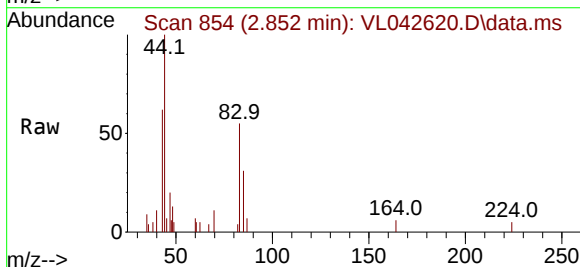
RT: 2.852 min Scan# 854

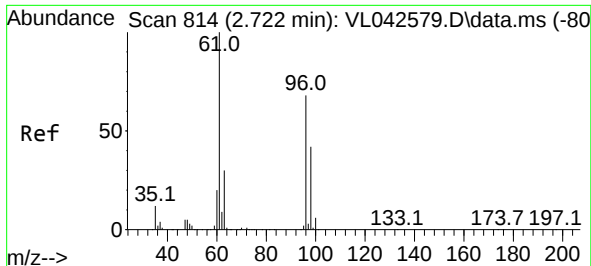
Delta R.T. 0.000 min

Lab File: VL042620.D

Acq: 05 Jun 2025 13:45

Tgt Ion:	83	Resp:	766
Ion Ratio	Lower	Upper	
83	100		
85	56.5	52.8	79.2

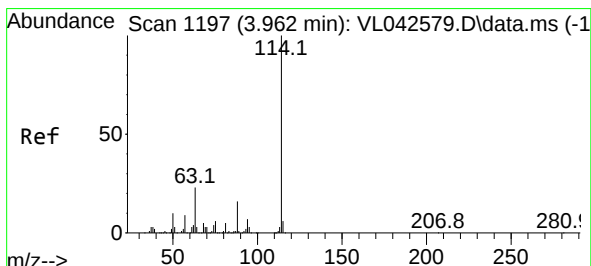
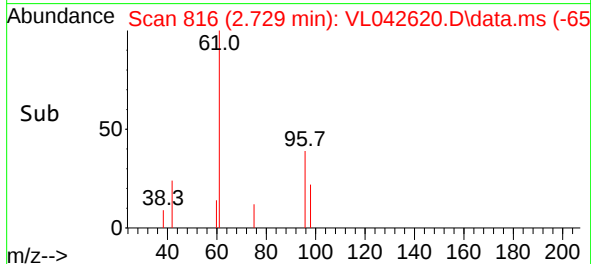
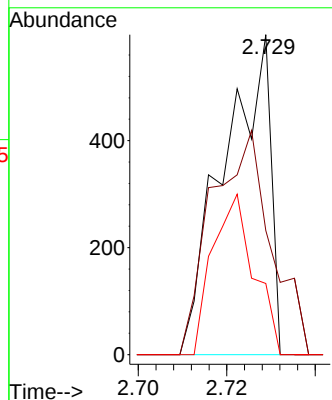
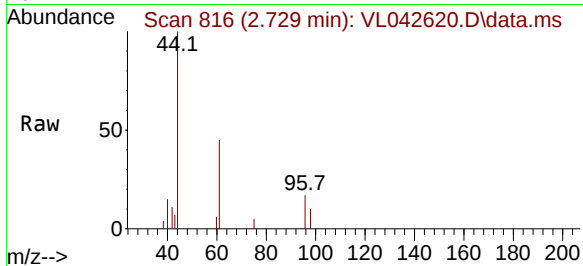




#31
 cis-1,2-Dichloroethene
 Concen: 0.031 ppbv
 RT: 2.729 min Scan# 814
 Delta R.T. 0.007 min
 Lab File: VL042620.D
 Acq: 05 Jun 2025 13:45

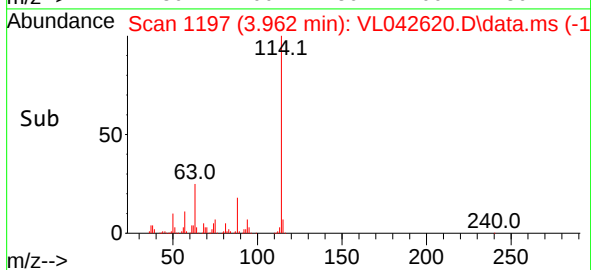
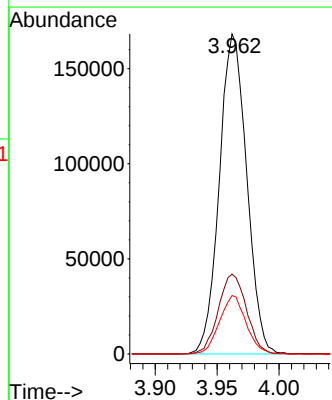
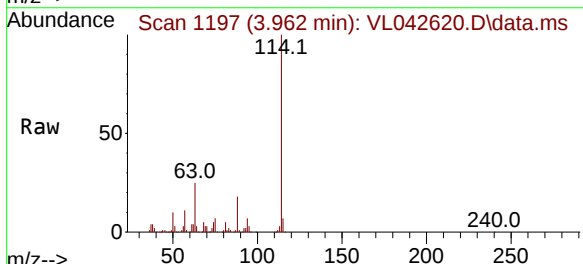
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2025

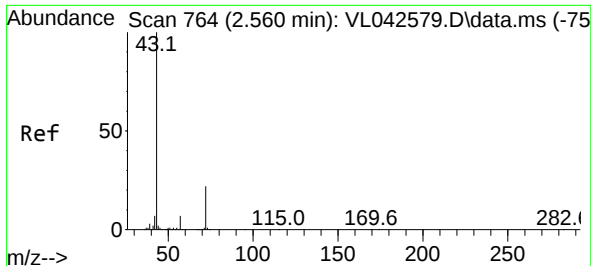
Tgt Ion: 61 Resp: 437
 Ion Ratio Lower Upper
 61 100
 96 38.8 54.5 81.7#
 98 22.2 33.4 50.2#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.962 min Scan# 1197
 Delta R.T. 0.000 min
 Lab File: VL042620.D
 Acq: 05 Jun 2025 13:45

Tgt Ion: 114 Resp: 258858
 Ion Ratio Lower Upper
 114 100
 63 25.7 19.0 28.6
 88 17.7 13.6 20.4

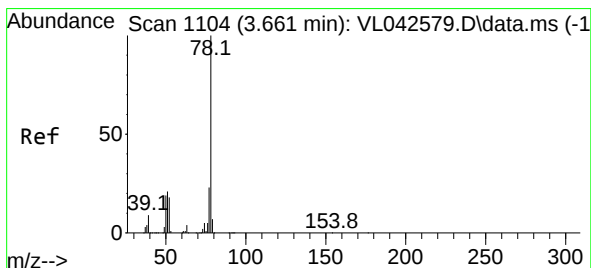
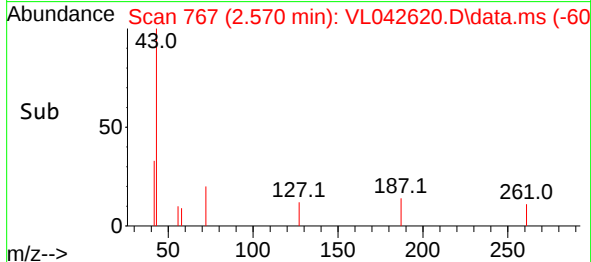
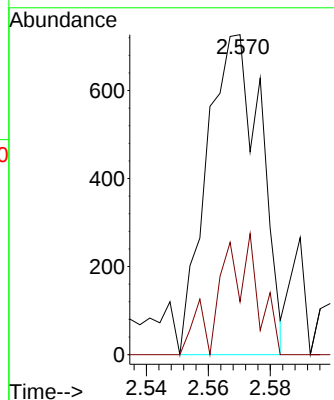
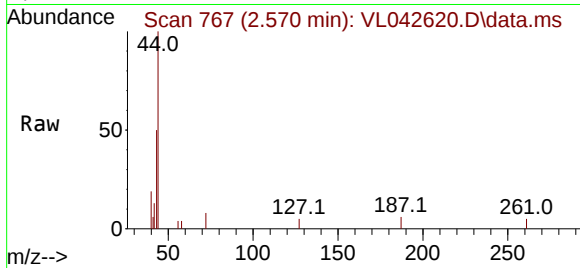




#34
2-Butanone
Concen: 0.048 ppbv
RT: 2.570 min Scan# 710
Delta R.T. 0.010 min
Lab File: VL042620.D
Acq: 05 Jun 2025 13:45

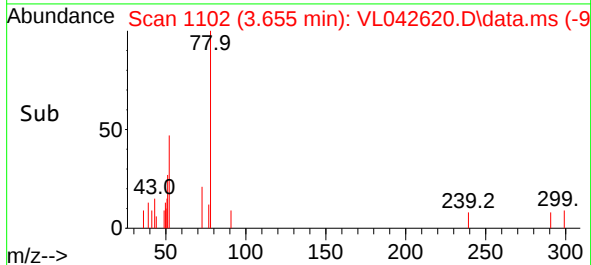
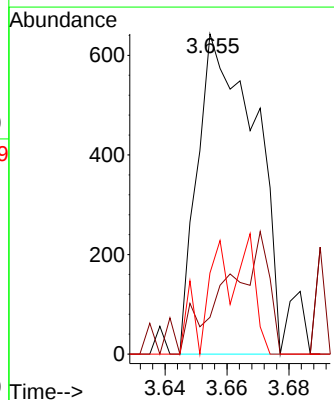
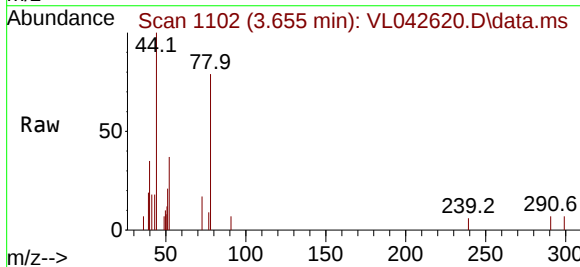
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2025

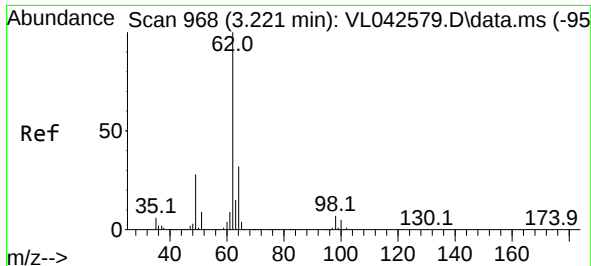
Tgt Ion: 43 Resp: 880
Ion Ratio Lower Upper
43 100
72 26.6 17.7 26.5#



#36
Benzene
Concen: 0.032 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. -0.006 min
Lab File: VL042620.D
Acq: 05 Jun 2025 13:45

Tgt Ion: 78 Resp: 825
Ion Ratio Lower Upper
78 100
77 11.5 18.2 27.2#
50 25.3 15.2 22.8#





#37

1,2-Dichloroethane

Concen: 0.043 ppbv

RT: 3.221 min Scan# 9

Delta R.T. 0.000 min

Lab File: VL042620.D

Acq: 05 Jun 2025 13:45

Instrument :

MSVOA_L

ClientSampleId :

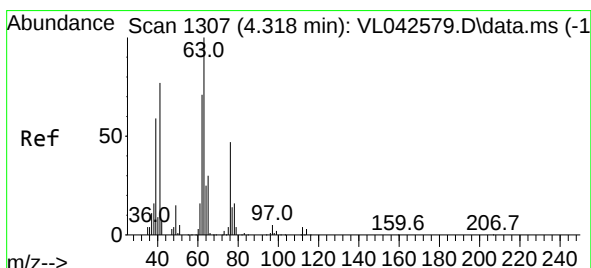
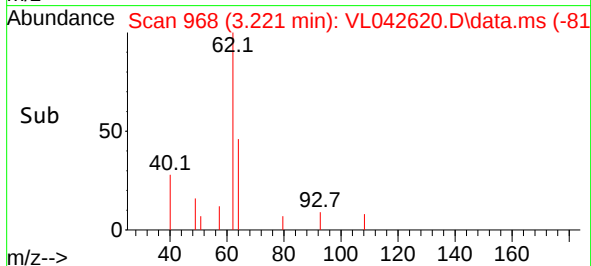
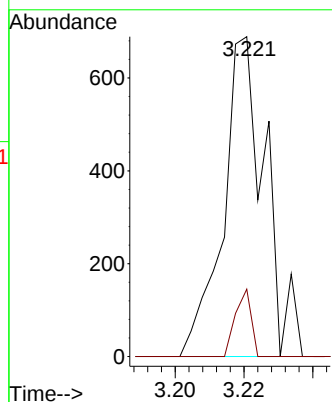
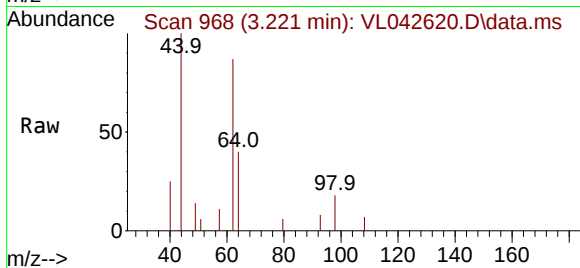
MDL-AIR-03-QT2-2025

Tgt Ion: 62 Resp: 549

Ion Ratio Lower Upper

62 100

98 8.4 6.1 9.1



#39

1,2-Dichloropropane

Concen: 7.054 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.356 min

Lab File: VL042620.D

Acq: 05 Jun 2025 13:45

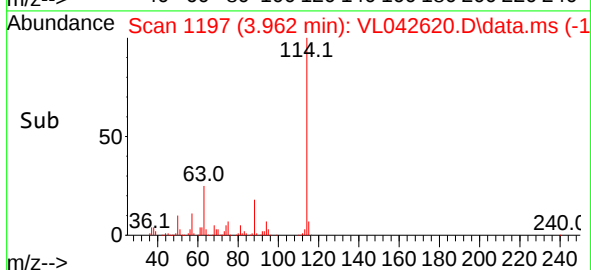
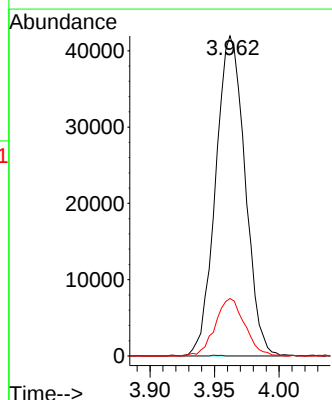
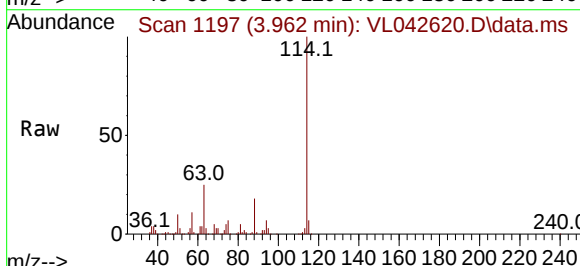
Tgt Ion: 63 Resp: 66500

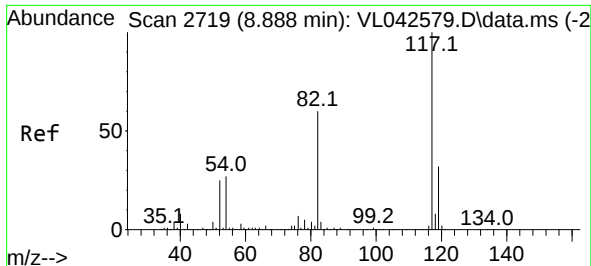
Ion Ratio Lower Upper

63 100

41 0.0 61.8 92.6#

62 17.9 56.6 85.0#

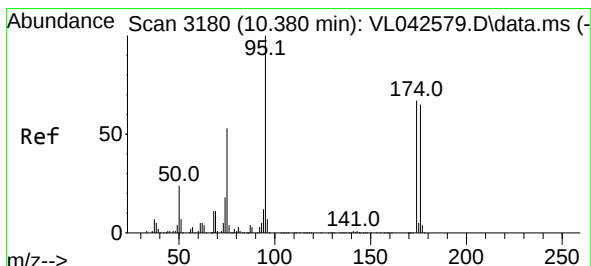
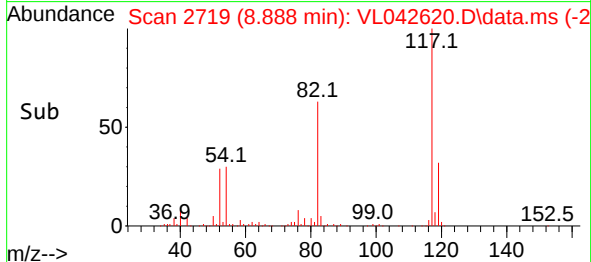
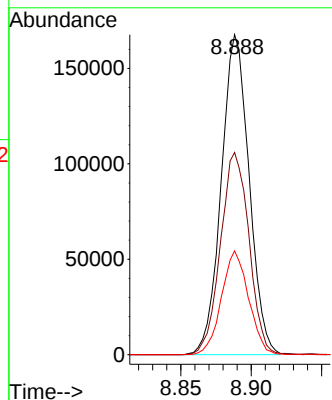
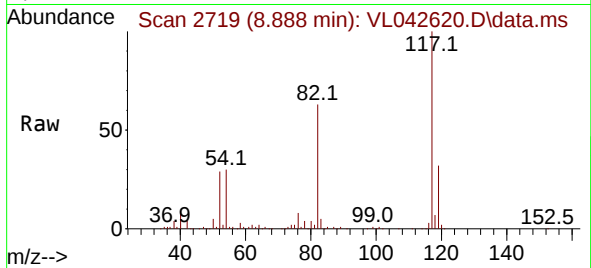




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042620.D
Acq: 05 Jun 2025 13:45

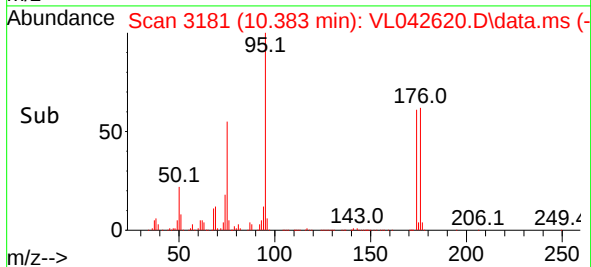
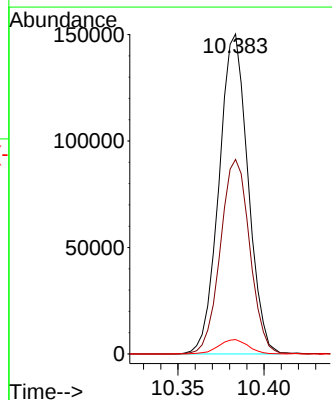
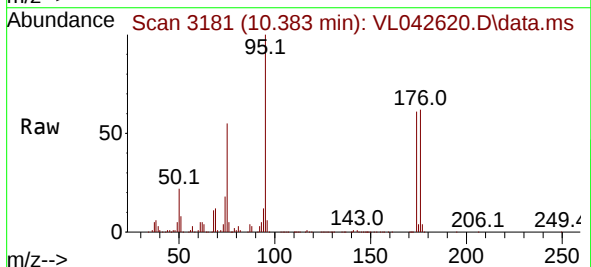
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2025

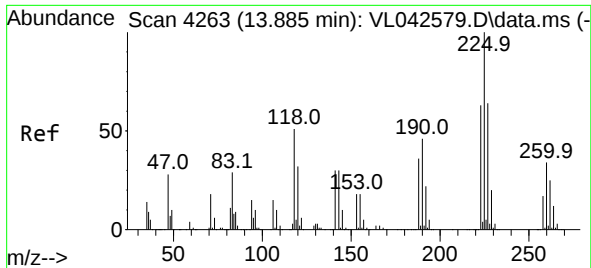
Tgt Ion:117 Resp: 230818
Ion Ratio Lower Upper
117 100
82 64.8 51.2 76.8
119 31.8 26.3 39.5



#68
1-Bromo-4-Fluorobenzene
Concen: 10.164 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. 0.003 min
Lab File: VL042620.D
Acq: 05 Jun 2025 13:45

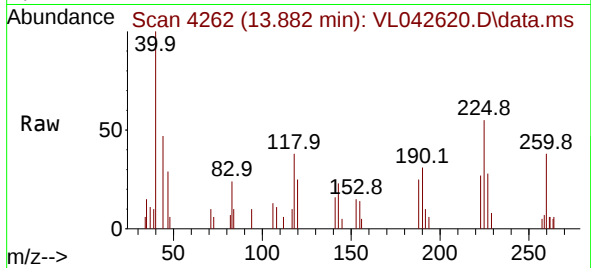
Tgt Ion: 95 Resp: 175866
Ion Ratio Lower Upper
95 100
174 61.7 53.1 79.7
175 4.7 4.2 6.2





#78
 Hexachloro-1,3-Butadiene
 Concen: 0.035 ppbv
 RT: 13.882 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042620.D
 Acq: 05 Jun 2025 13:45

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2025



Tgt Ion:	225	Resp:	614
Ion	Ratio	Lower	Upper
225	100		
223	71.2	50.2	75.4
227	61.9	51.1	76.7

