

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL102523\
 Data File : VL040806.D
 Acq On : 25 Oct 2023 18:50
 Operator : SY/MD
 Sample : 04699-15 0.1 MDL
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT4-2023DL

Quant Time: Oct 26 03:54:13 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Oct 12 00:21:08 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.192	49	916187	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	6.645	114	2387536	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.445	117	2183536	10.000	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.757	95	1700555	10.584	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.800%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.754	85	22427	0.139	ppbv	100
3) Chlorodifluoromethane	2.697	51	18539	0.138	ppbv	98
4) Chloromethane	2.828	50	3405	0.064	ppbv #	81
5) Vinyl Chloride	2.944	62	5513	0.100	ppbv #	25
6) Bromomethane	3.140	94	1132	0.050	ppbv	90
7) Chloroethane	3.217	64	1978	0.111	ppbv #	72
8) Dichlorotetrafluoroethane	2.873	85	7469	0.061	ppbv #	15
9) Propene	2.716	41	4684	0.094	ppbv #	46
11) Trichlorofluoromethane	3.571	101	14944	0.120	ppbv #	81
12) 1,1,2-Trichlorotrifluo...	4.076	101	10623	0.120	ppbv	94
13) Ethanol	3.279	45	1448	0.128	ppbv #	38
14) Bromoethene	3.388	108	2124	0.056	ppbv #	1
15) Acetone	3.504	43	19595	0.207	ppbv #	80
16) 1,3-Butadiene	3.005	39	5363	0.108	ppbv #	73
18) 1,1-Dichloroethene	3.883	96	1601	0.040	ppbv	94
20) Methylene Chloride	3.941	84	1413	0.036	ppbv #	64
21) Allyl Chloride	4.002	41	3675	0.059	ppbv #	1
22) trans-1,2-Dichloroethene	4.455	96	3505	0.083	ppbv #	75
24) 1,1-Dichloroethane	4.565	63	7640	0.084	ppbv #	94
25) Ethyl Acetate	5.214	43	15897	0.077	ppbv #	84
26) Hexane	5.211	57	11928	0.126	ppbv #	84
27) Carbon Disulfide	4.134	76	7724	0.074	ppbv #	1
28) Methyl tert-Butyl Ether	4.610	73	7901	0.107	ppbv	94
29) Chloroform	5.269	83	12707	0.093	ppbv #	78
31) cis-1,2-Dichloroethene	5.076	61	6499	0.074	ppbv #	64
32) 1,1,1-Trichloroethane	5.999	97	13003	0.089	ppbv	89
35) Carbon Tetrachloride	6.475	117	4415	0.033	ppbv	91
36) Benzene	6.362	78	20301	0.111	ppbv #	81
37) 1,2-Dichloroethane	5.806	62	5952	0.063	ppbv #	80
38) Trichloroethene	7.278	130	5669	0.070	ppbv #	85
39) 1,2-Dichloropropane	6.642	63	599230	8.352	ppbv #	26
42) Bromodichloromethane	7.240	83	14096	0.100	ppbv #	55
44) 2,2,4-Trimethylpentane	7.317	57	31017	0.100	ppbv #	86
46) cis-1,3-Dichloropropene	8.127	75	3450	0.048	ppbv #	86
49) Bromoform	12.381	173	3095	0.030	ppbv #	1
53) Toluene	9.201	91	9105	0.042	ppbv #	19
54) 1,2-Dibromoethane	9.992	107	7423	0.070	ppbv	85
56) 1,1,1,2-Tetrachloroethane	11.490	131	3783	0.042	ppbv #	10
57) Chlorobenzene	11.507	112	17781	0.114	ppbv #	56
58) Ethyl Benzene	12.069	91	12163	0.044	ppbv	95
60) o-Xylene	13.031	91	8010	0.037	ppbv #	30
61) Styrene	12.873	104	6592	0.055	ppbv #	65
62) Isopropylbenzene	14.002	105	15164	0.046	ppbv #	48

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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Oct 12 00:21:08 2023
 Response via : Initial Calibration

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

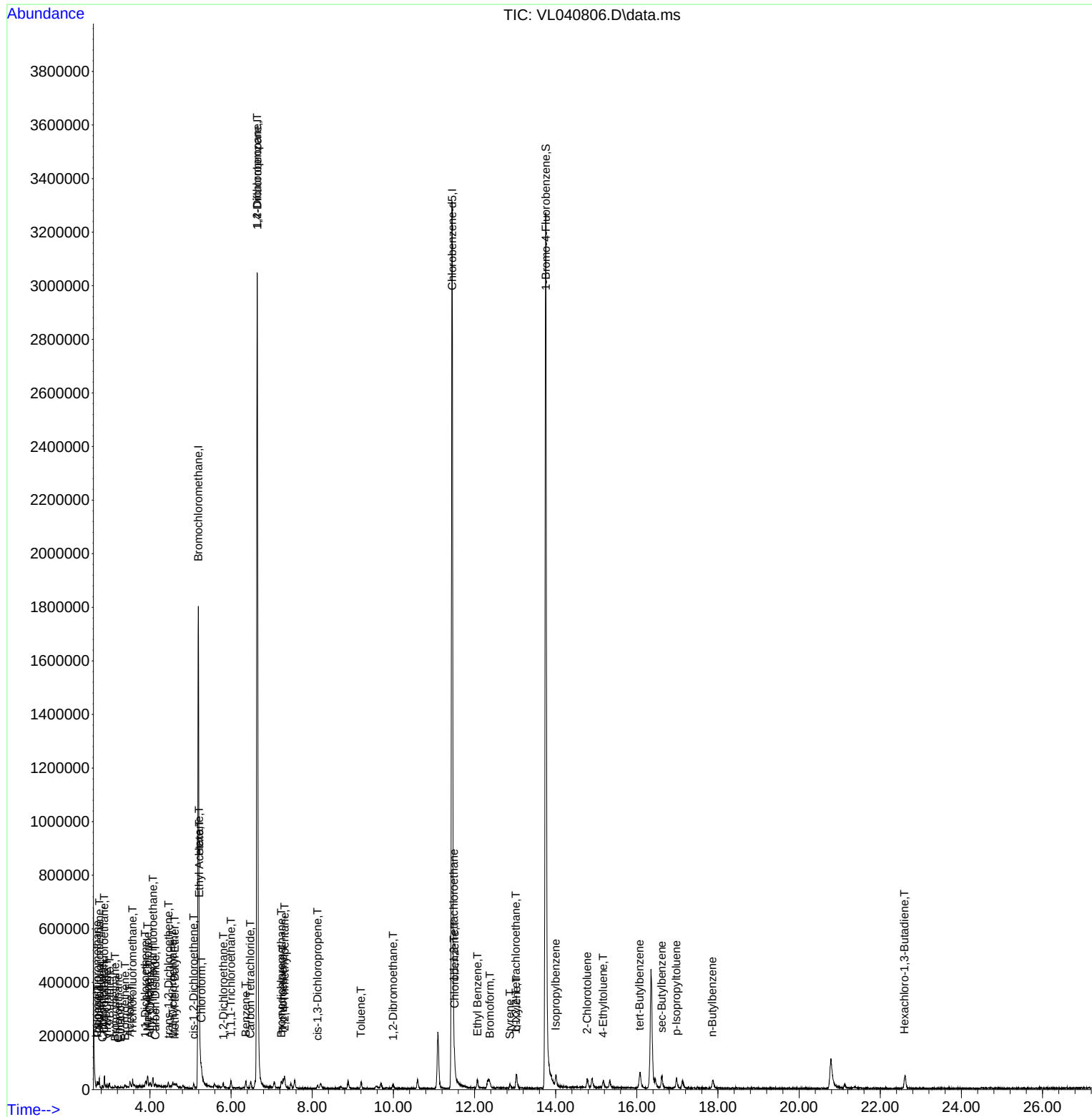
63) 1,1,2,2-Tetrachloroethane	13.018	83	5062	0.031	ppbv #	24
65) tert-Butylbenzene	16.069	119	12008	0.040	ppbv #	1
67) sec-Butylbenzene	16.612	105	18152	0.044	ppbv #	65
69) p-Isopropyltoluene	16.969	119	12349	0.036	ppbv #	61
70) n-Butylbenzene	17.860	91	11931	0.035	ppbv #	32
71) 2-Chlorotoluene	14.773	91	12368	0.050	ppbv #	52
72) 4-Ethyltoluene	15.166	105	8692	0.034	ppbv #	54
78) Hexachloro-1,3-Butadiene	22.593	225	3958	0.037	ppbv #	18

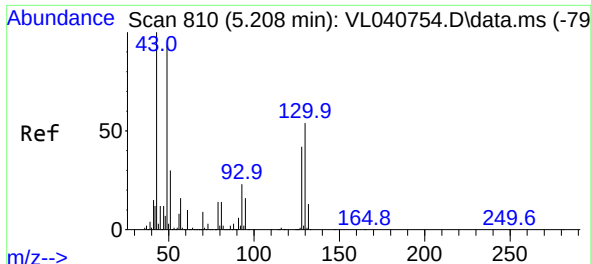
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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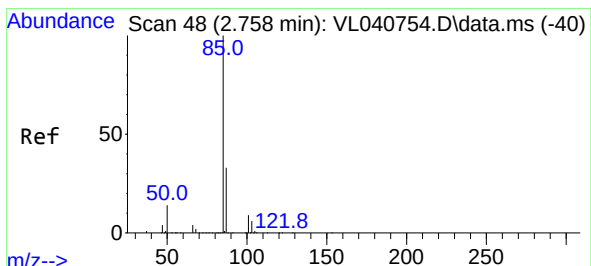
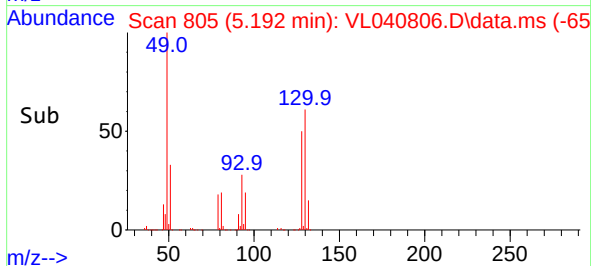
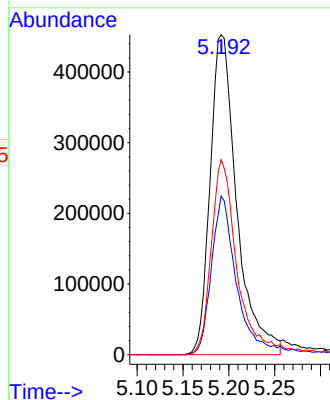
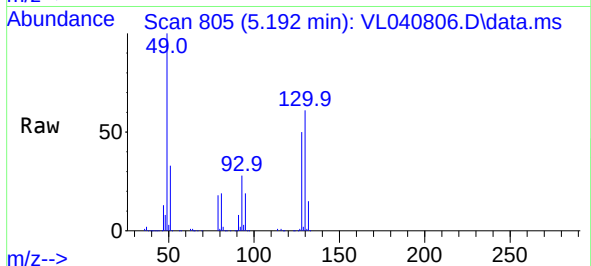




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. -0.016 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

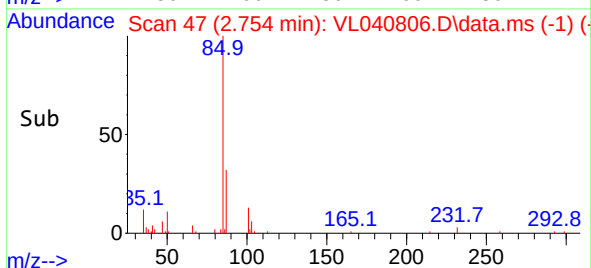
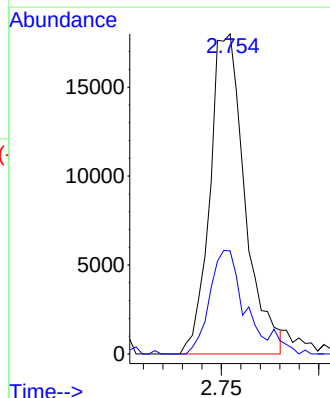
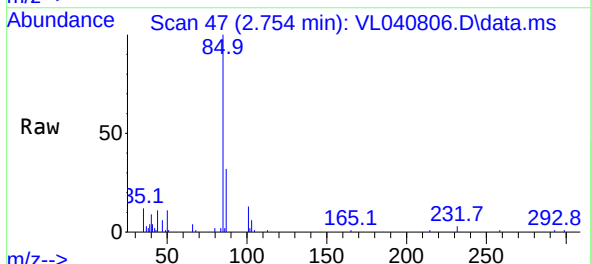
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2023DL

Tgt Ion: 49 Resp: 916187
Ion Ratio Lower Upper
49 100
128 48.3 23.9 71.7
130 61.0 30.7 92.1

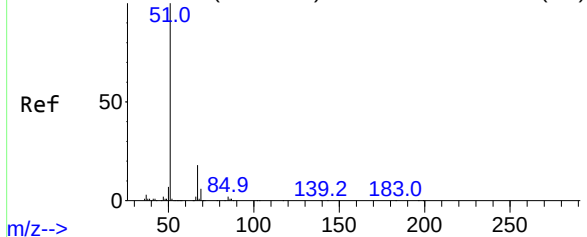


#2
Dichlorodifluoromethane
Concen: 0.139 ppbv
RT: 2.754 min Scan# 47
Delta R.T. -0.003 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

Tgt Ion: 85 Resp: 22427
Ion Ratio Lower Upper
85 100
87 32.2 26.0 39.0



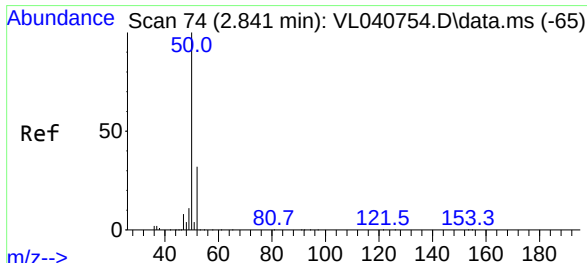
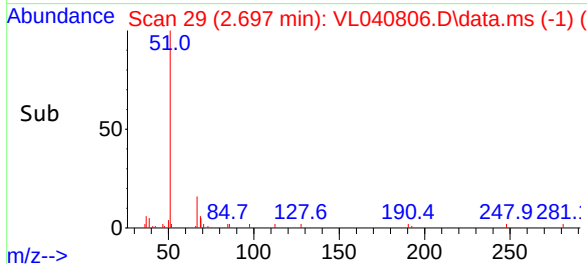
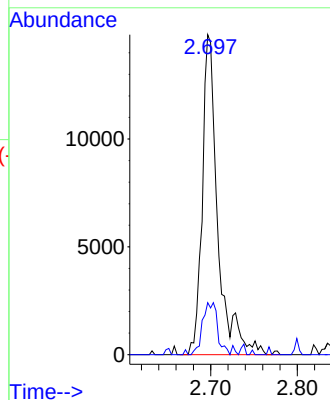
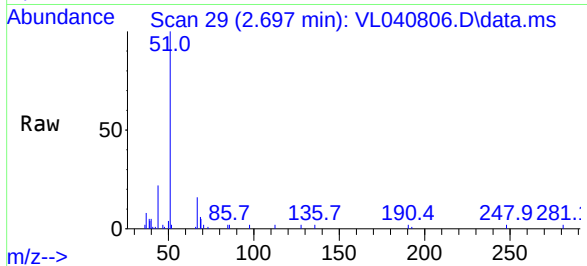
Abundance Scan 31 (2.703 min): VL040754.D\data.ms (-19)



#3
Chlorodifluoromethane
Concen: 0.138 ppbv
RT: 2.697 min Scan# 29
Delta R.T. -0.007 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

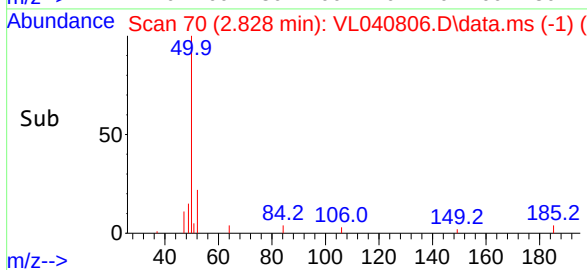
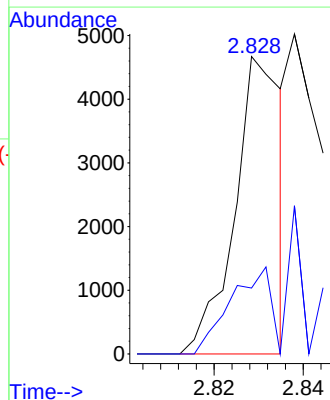
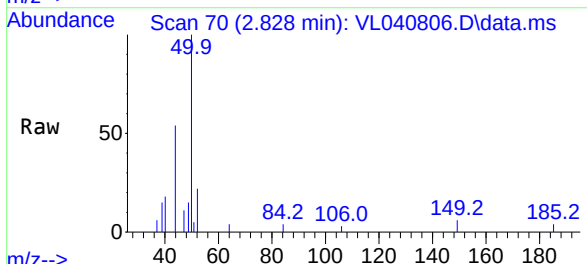
Instrument :
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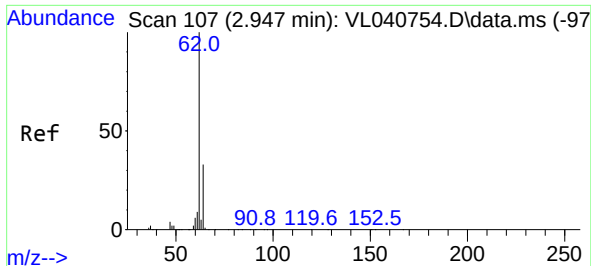
Tgt Ion: 51 Resp: 18539
Ion Ratio Lower Upper
51 100
67 16.4 13.8 20.6



#4
Chloromethane
Concen: 0.064 ppbv
RT: 2.828 min Scan# 70
Delta R.T. -0.013 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

Tgt Ion: 50 Resp: 3405
Ion Ratio Lower Upper
50 100
52 21.0 25.3 37.9#

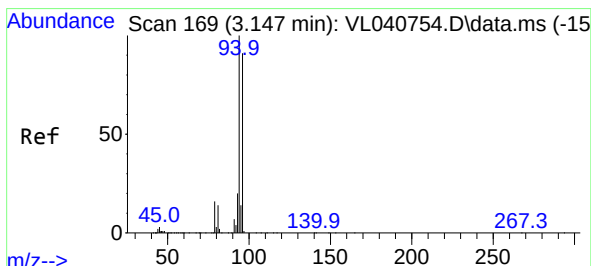
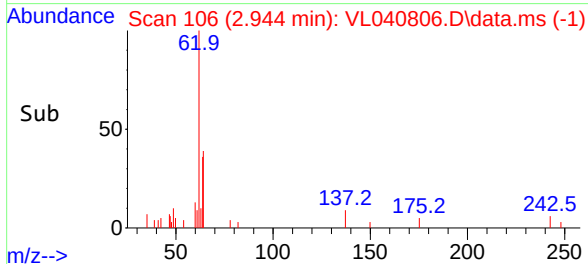
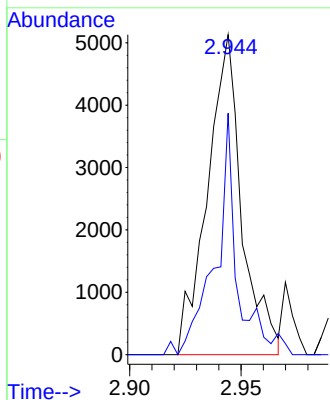
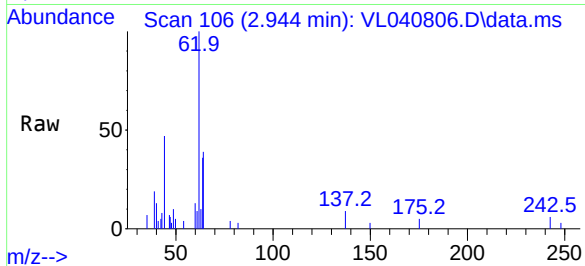




#5
 Vinyl Chloride
 Concen: 0.100 ppbv
 RT: 2.944 min Scan# 10
 Delta R.T. -0.003 min
 Lab File: VL040806.D
 Acq: 25 Oct 2023 18:50

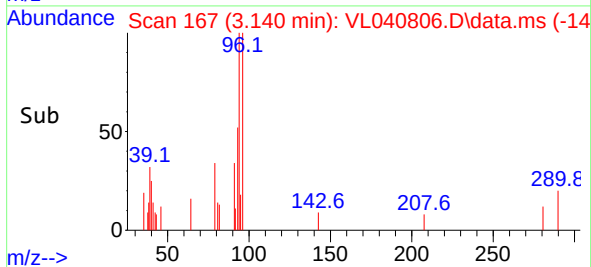
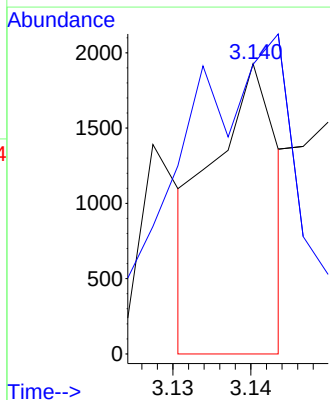
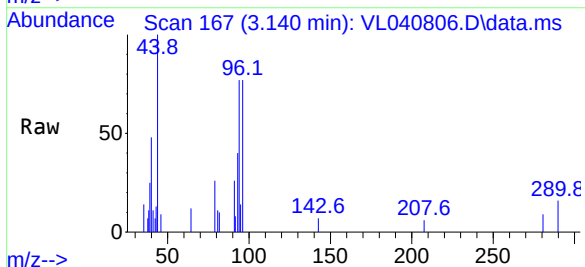
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT4-2023DL

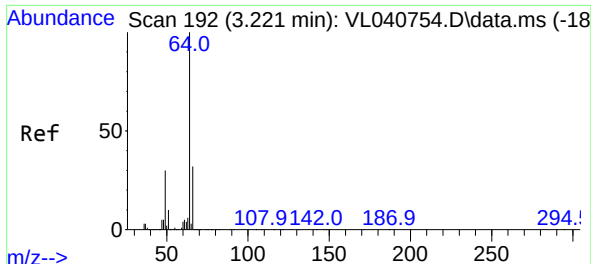
Tgt Ion: 62 Resp: 5513
 Ion Ratio Lower Upper
 62 100
 64 75.5 26.6 39.8#



#6
 Bromomethane
 Concen: 0.050 ppbv
 RT: 3.140 min Scan# 167
 Delta R.T. -0.006 min
 Lab File: VL040806.D
 Acq: 25 Oct 2023 18:50

Tgt Ion: 94 Resp: 1132
 Ion Ratio Lower Upper
 94 100
 96 81.2 72.6 109.0

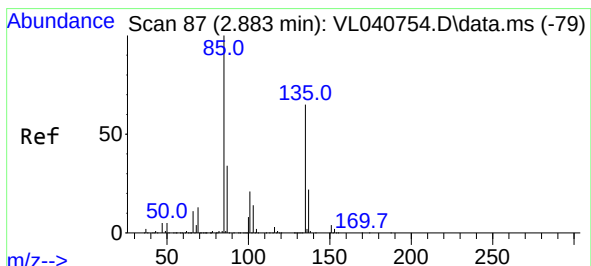
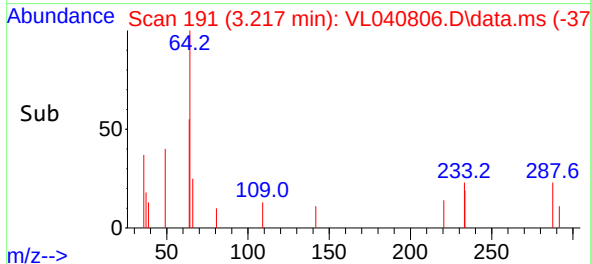
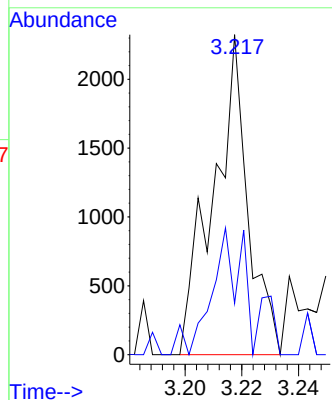
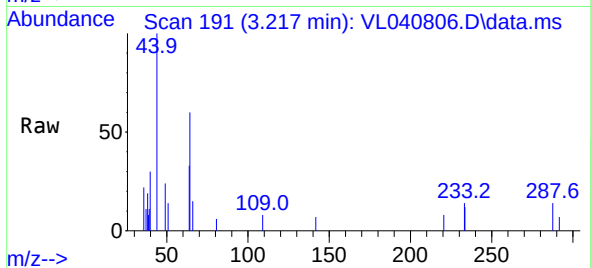




#7
Chloroethane
Concen: 0.111 ppbv
RT: 3.217 min Scan# 19
Delta R.T. -0.003 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

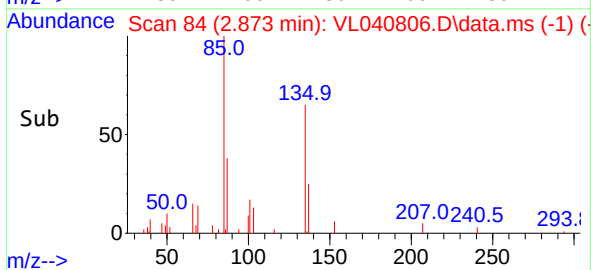
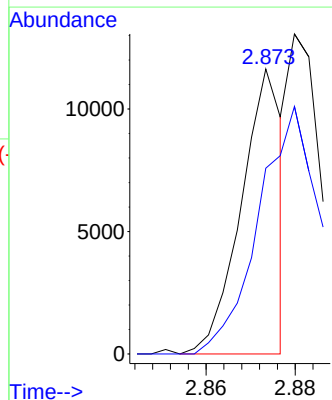
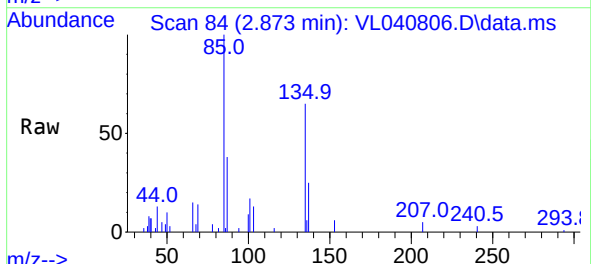
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2023DL

Tgt Ion: 64 Resp: 1978
Ion Ratio Lower Upper
64 100
66 16.0 25.4 38.2#

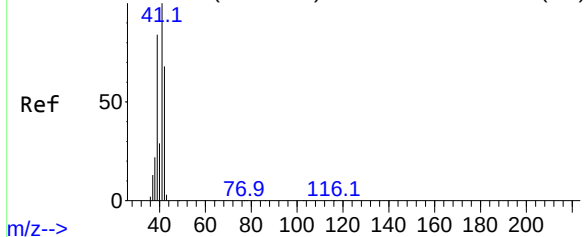


#8
Dichlorotetrafluoroethane
Concen: 0.061 ppbv
RT: 2.873 min Scan# 84
Delta R.T. -0.010 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

Tgt Ion: 85 Resp: 7469
Ion Ratio Lower Upper
85 100
135 0.0 55.4 83.2#



Abundance Scan 37 (2.722 min): VL040754.D\data.ms (-27)



#9

Propene

Concen: 0.094 ppbv

RT: 2.716 min Scan# 31

Delta R.T. -0.006 min

Lab File: VL040806.D

Acq: 25 Oct 2023 18:50

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2023DL

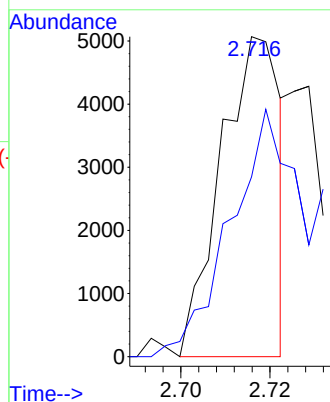
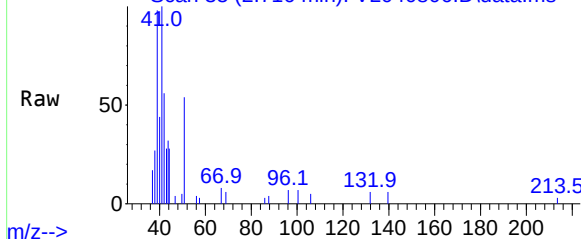
Tgt Ion: 41 Resp: 4684

Ion Ratio Lower Upper

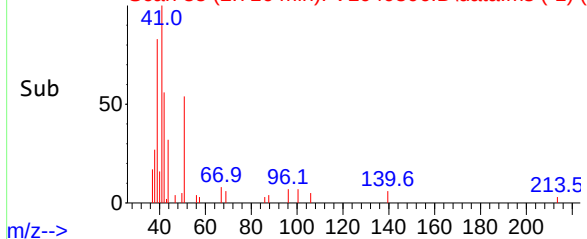
41 100

42 115.9 57.1 85.7#

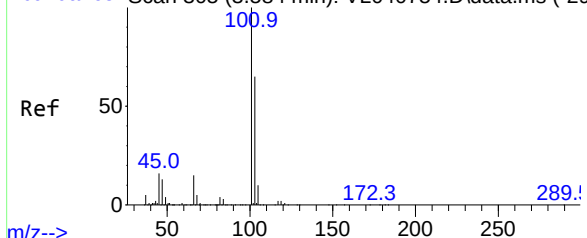
Abundance Scan 35 (2.716 min): VL040806.D\data.ms



Abundance Scan 35 (2.716 min): VL040806.D\data.ms (-1)



Abundance Scan 305 (3.584 min): VL040754.D\data.ms (-29)



#11

Trichlorofluoromethane

Concen: 0.120 ppbv

RT: 3.571 min Scan# 301

Delta R.T. -0.013 min

Lab File: VL040806.D

Acq: 25 Oct 2023 18:50

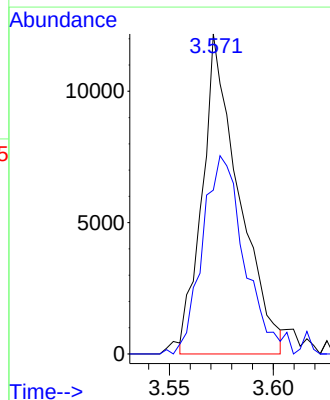
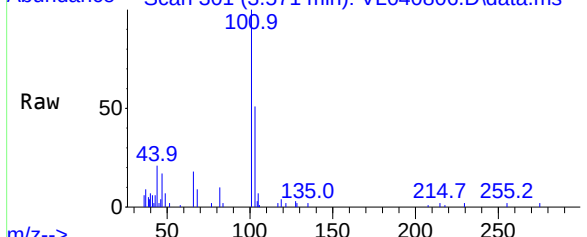
Tgt Ion: 101 Resp: 14944

Ion Ratio Lower Upper

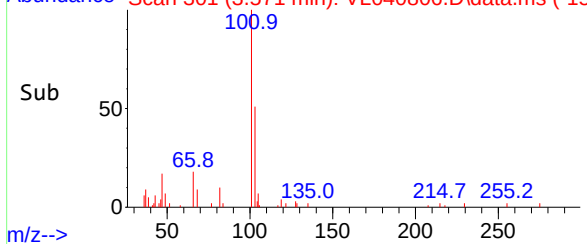
101 100

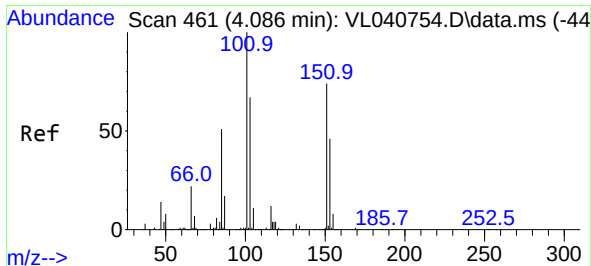
103 49.8 52.2 78.2#

Abundance Scan 301 (3.571 min): VL040806.D\data.ms



Abundance Scan 301 (3.571 min): VL040806.D\data.ms (-15)

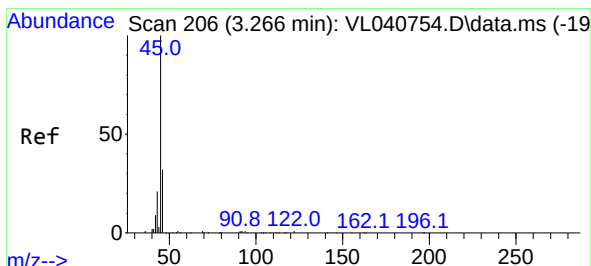
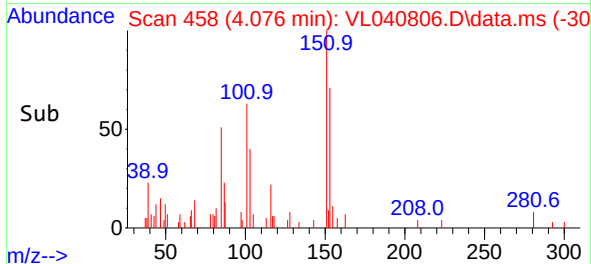
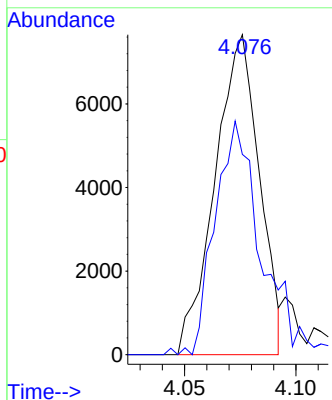
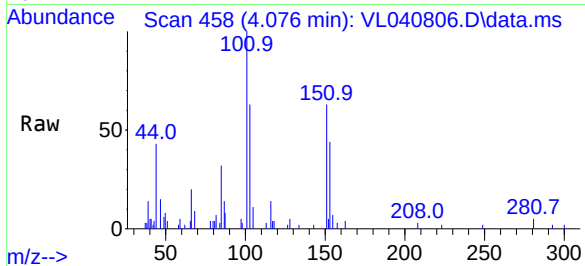




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.120 ppbv
RT: 4.076 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

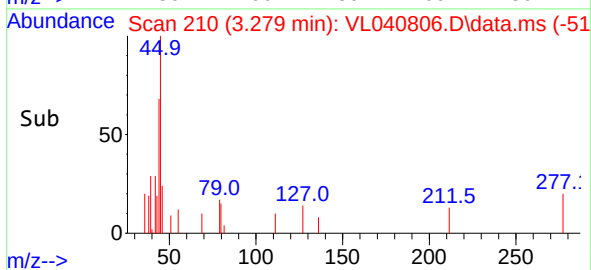
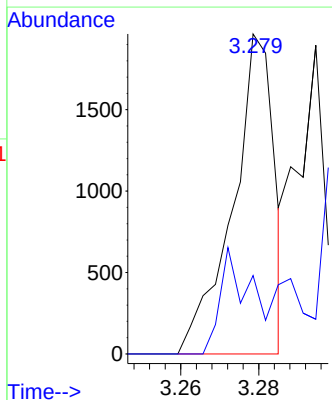
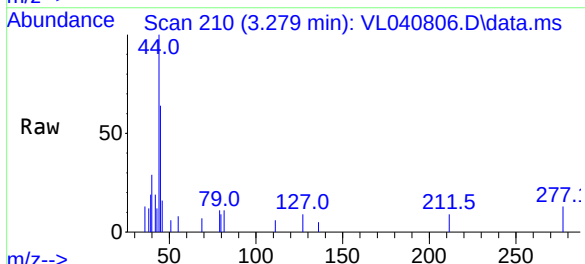
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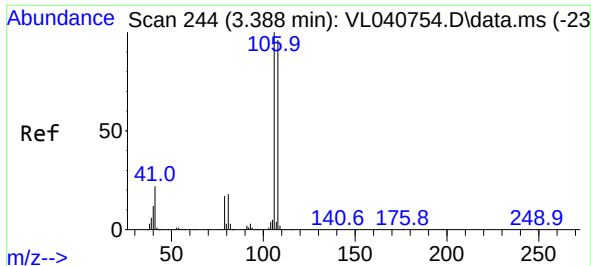
Tgt Ion:101 Resp: 10623
Ion Ratio Lower Upper
101 100
151 77.4 58.1 87.1



#13
Ethanol
Concen: 0.128 ppbv
RT: 3.279 min Scan# 210
Delta R.T. 0.013 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

Tgt Ion: 45 Resp: 1448
Ion Ratio Lower Upper
45 100
46 0.0 14.6 58.2#

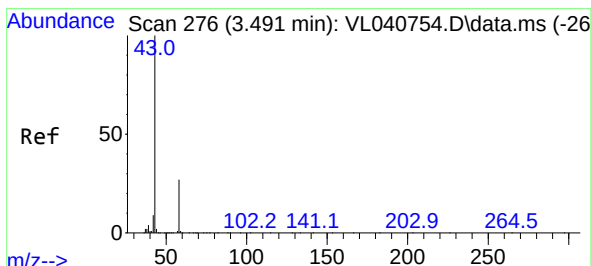
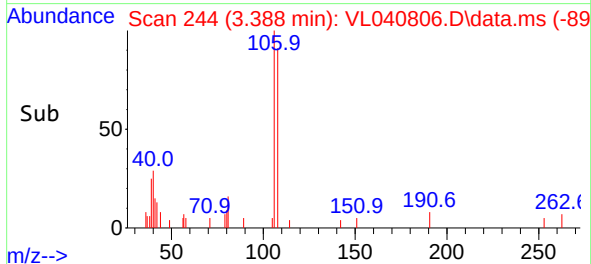
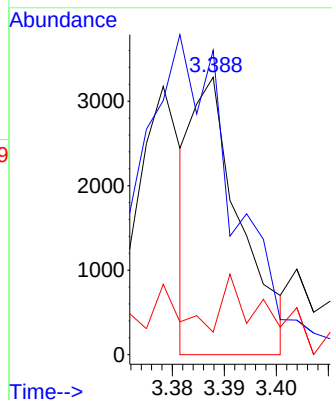
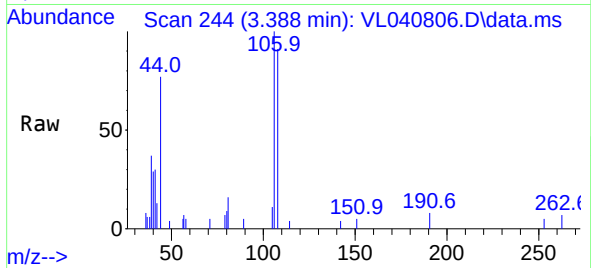




#14
Bromoethene
Concen: 0.056 ppbv
RT: 3.388 min Scan# 244
Delta R.T. -0.000 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

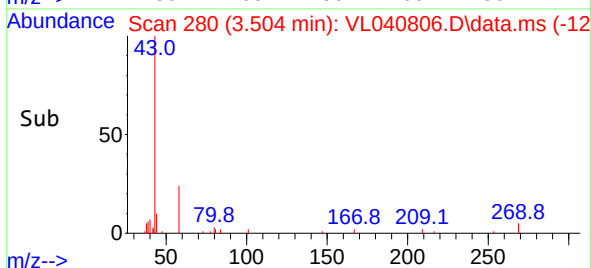
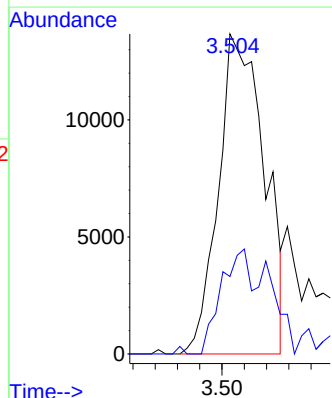
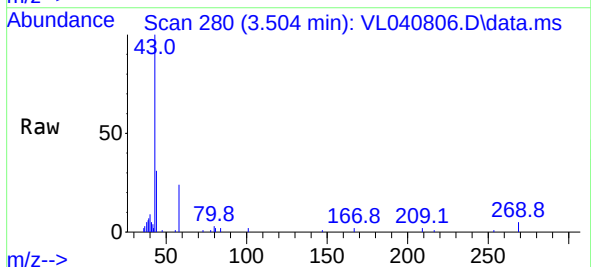
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2023DL

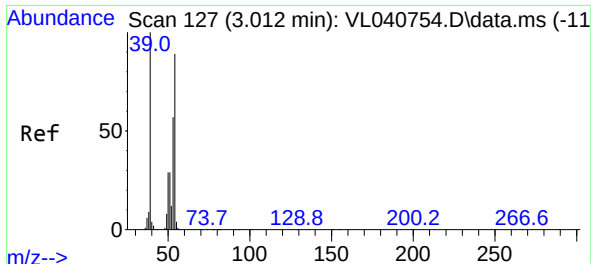
Tgt Ion:108 Resp: 2124
Ion Ratio Lower Upper
108 100
106 0.0 85.2 127.8#
79 72.7 15.7 23.5#



#15
Acetone
Concen: 0.207 ppbv
RT: 3.504 min Scan# 280
Delta R.T. 0.013 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

Tgt Ion: 43 Resp: 19595
Ion Ratio Lower Upper
43 100
58 37.5 21.6 32.4#





#16

1,3-Butadiene

Concen: 0.108 ppbv

RT: 3.005 min Scan# 11

Delta R.T. -0.007 min

Lab File: VL040806.D

Acq: 25 Oct 2023 18:50

Instrument :

MSVOA_L

ClientSampleId :

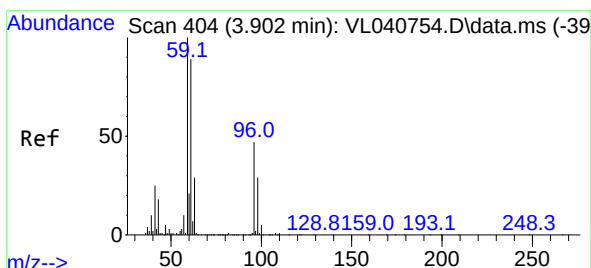
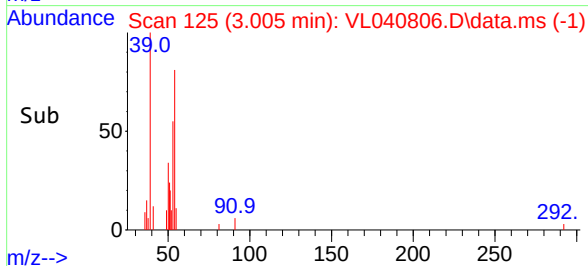
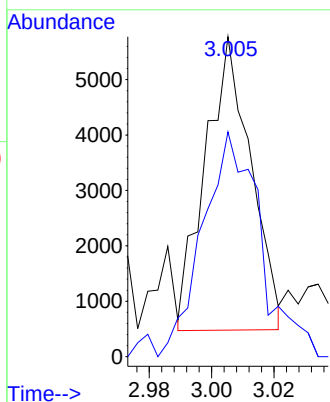
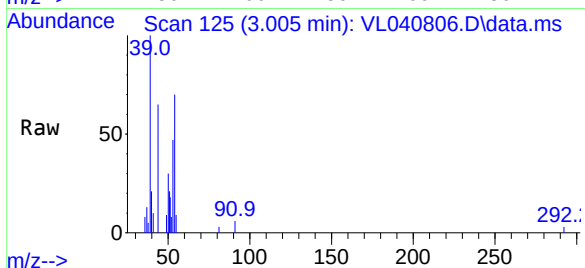
MDL-AIR-03-QT4-2023DL

Tgt Ion: 39 Resp: 5363

Ion Ratio Lower Upper

39 100

54 102.2 63.0 94.6#



#18

1,1-Dichloroethene

Concen: 0.040 ppbv

RT: 3.883 min Scan# 398

Delta R.T. -0.019 min

Lab File: VL040806.D

Acq: 25 Oct 2023 18:50

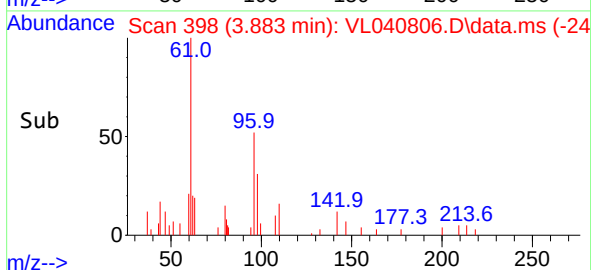
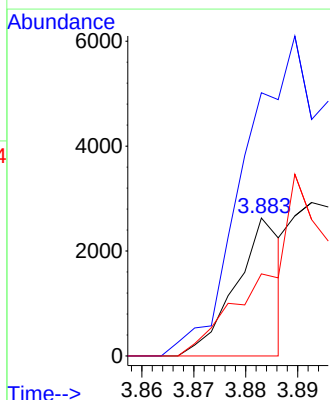
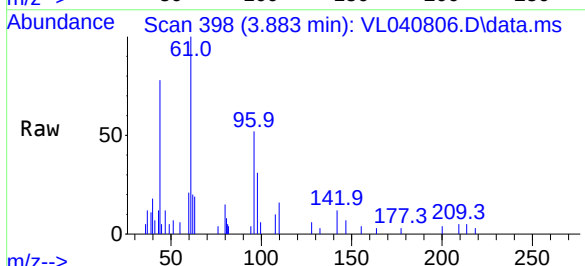
Tgt Ion: 96 Resp: 1601

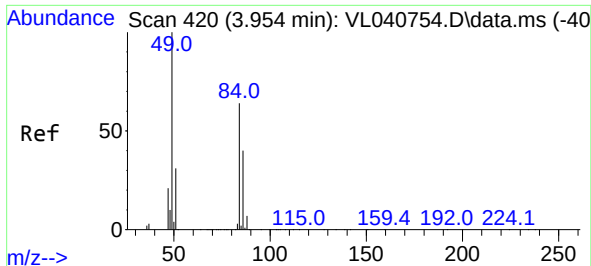
Ion Ratio Lower Upper

96 100

61 181.0 152.5 228.7

98 59.5 49.6 74.4



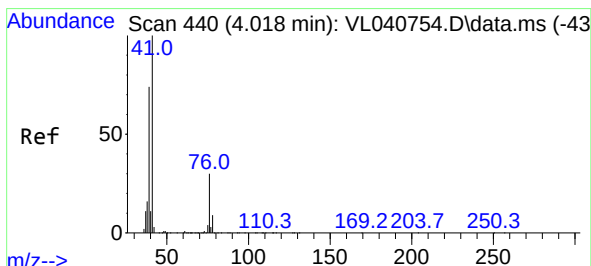
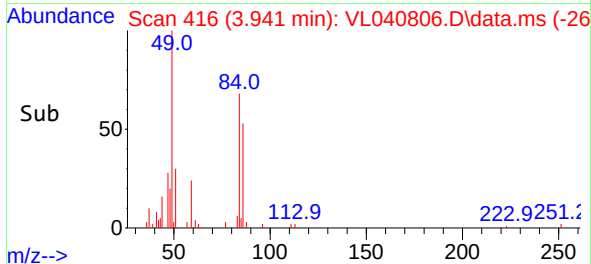
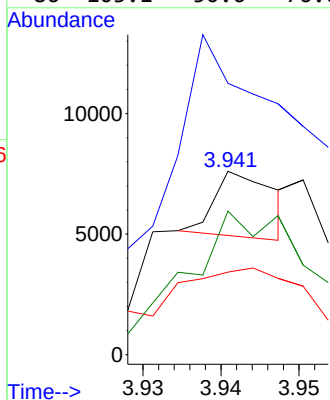
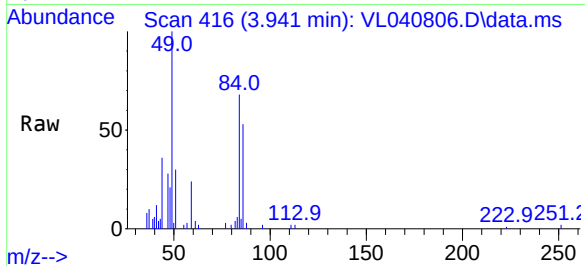


#20
Methylene Chloride
Concen: 0.036 ppbv
RT: 3.941 min Scan# 416
Delta R.T. -0.013 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2023DL

Tgt Ion: 84 Resp: 1413

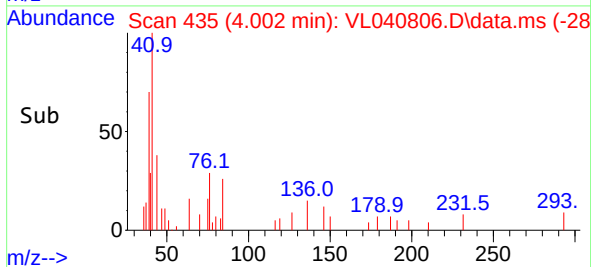
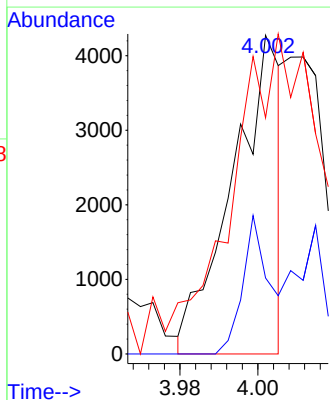
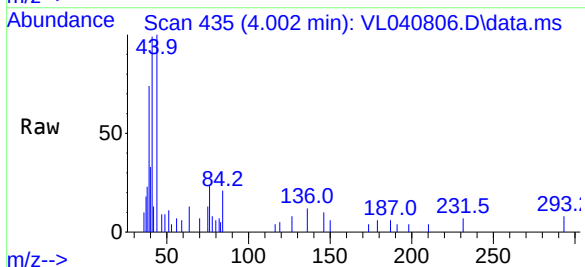
Ion	Ratio	Lower	Upper
84	100		
49	121.7	125.6	188.4#
51	17.8	38.9	58.3#
86	103.1	50.6	76.0#

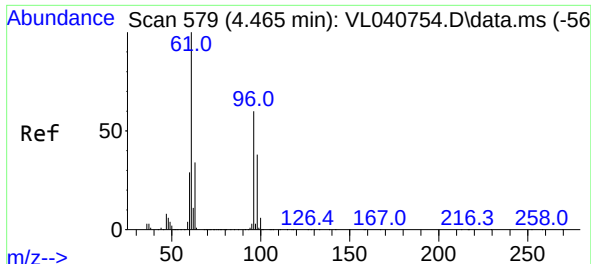


#21
Allyl Chloride
Concen: 0.059 ppbv
RT: 4.002 min Scan# 435
Delta R.T. -0.016 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

Tgt Ion: 41 Resp: 3675

Ion	Ratio	Lower	Upper
41	100		
76	56.4	24.1	36.1#
39	227.5	63.8	95.6#

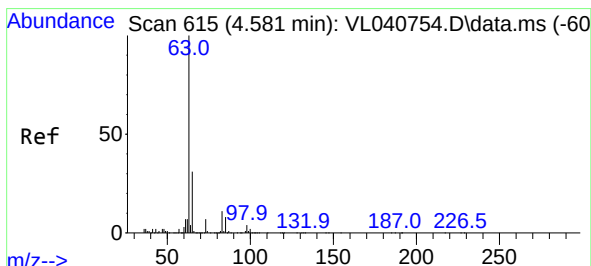
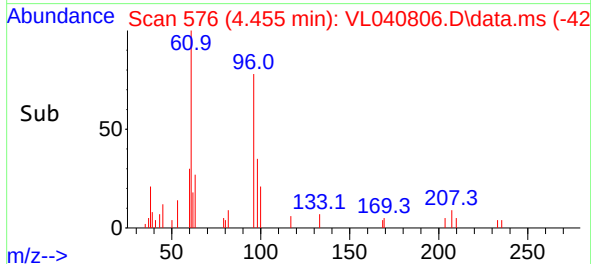
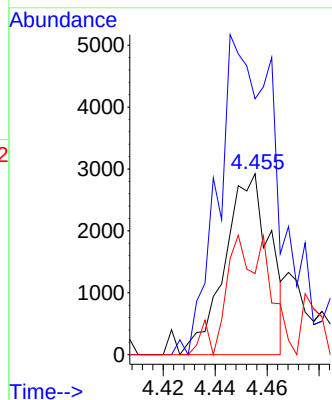
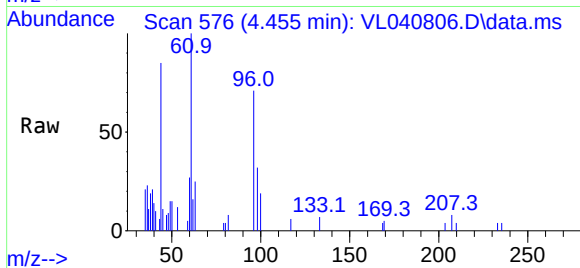




#22
trans-1,2-Dichloroethene
Concen: 0.083 ppbv
RT: 4.455 min Scan# 51
Delta R.T. -0.010 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

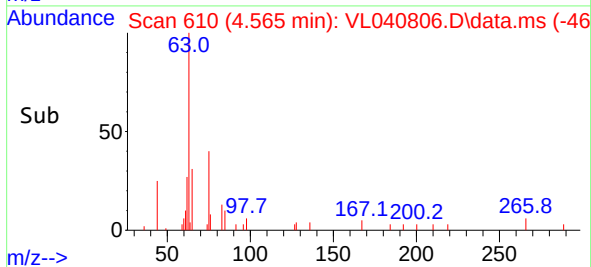
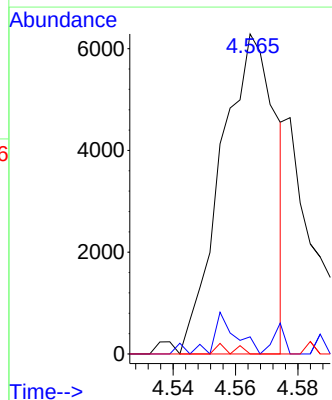
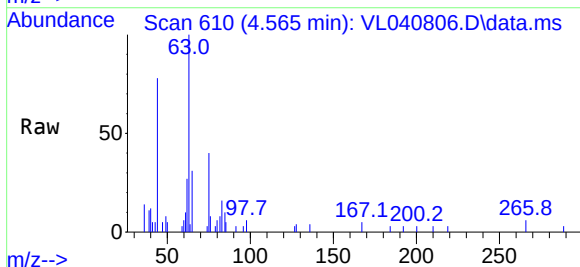
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2023DL

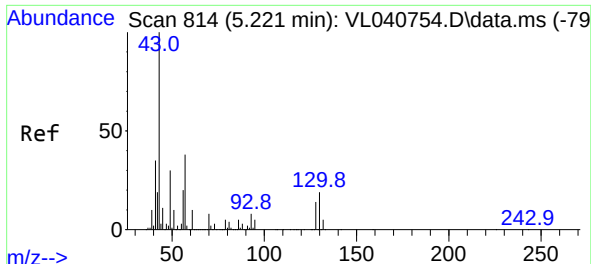
Tgt Ion: 96 Resp: 3505
Ion Ratio Lower Upper
96 100
61 133.1 134.0 201.0#
98 44.8 51.0 76.4#



#24
1,1-Dichloroethane
Concen: 0.084 ppbv
RT: 4.565 min Scan# 610
Delta R.T. -0.016 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

Tgt Ion: 63 Resp: 7640
Ion Ratio Lower Upper
63 100
98 2.0 2.0 5.8
100 0.0 1.3 3.8#



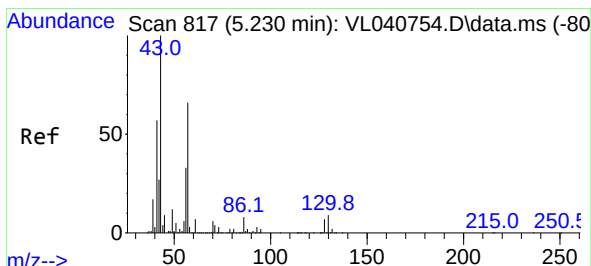
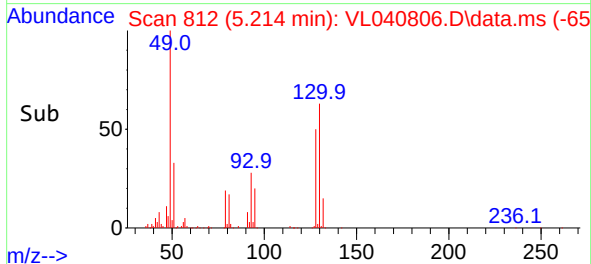
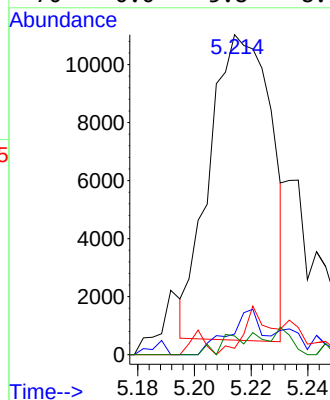
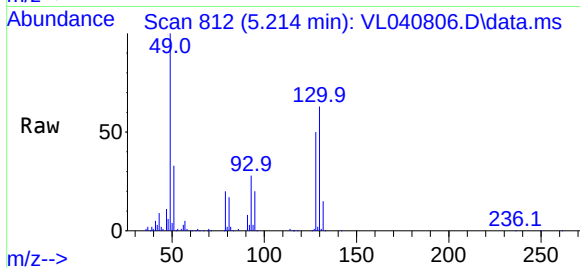


#25
Ethyl Acetate
Concen: 0.077 ppbv
RT: 5.214 min Scan# 814
Delta R.T. -0.007 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2023DL

Tgt Ion: 43 Resp: 15897

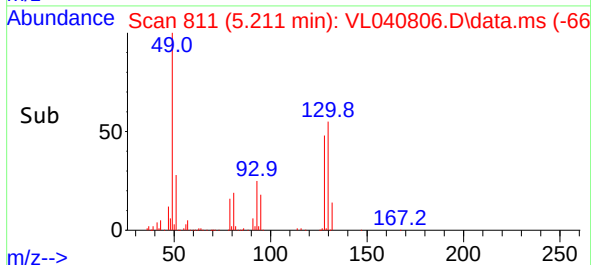
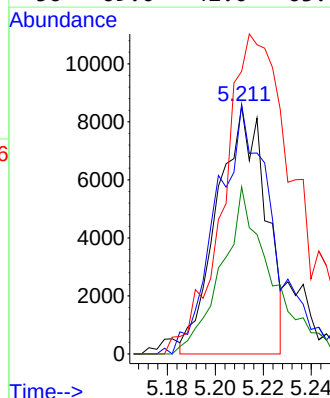
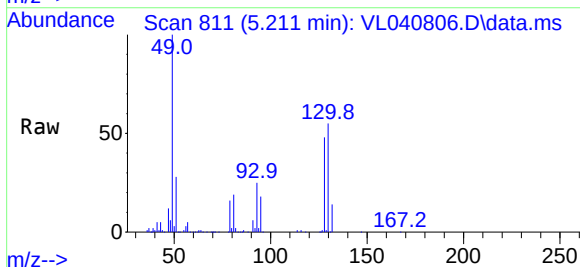
Ion	Ratio	Lower	Upper
43	100		
45	15.0	8.2	12.4#
61	16.0	8.2	12.2#
70	0.0	5.8	8.6#

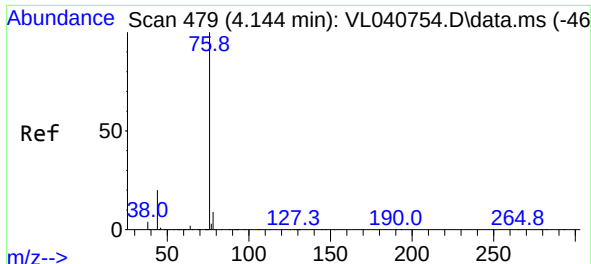


#26
Hexane
Concen: 0.126 ppbv
RT: 5.211 min Scan# 811
Delta R.T. -0.019 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

Tgt Ion: 57 Resp: 11928

Ion	Ratio	Lower	Upper
57	100		
41	126.5	71.4	107.2#
43	219.9	182.3	273.5
56	69.0	42.0	63.0#

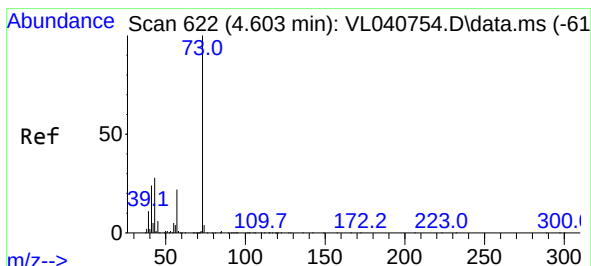
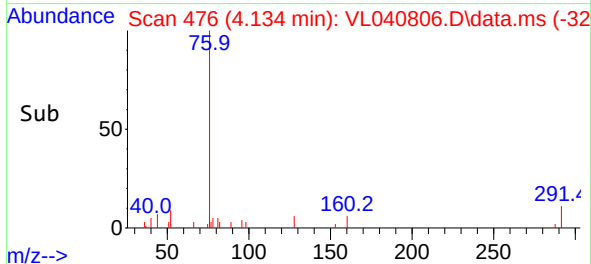
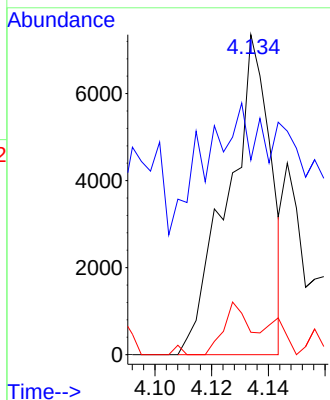
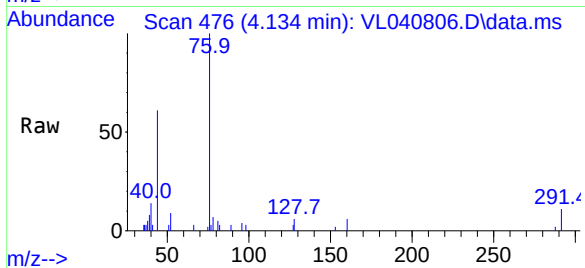




#27
Carbon Disulfide
Concen: 0.074 ppbv
RT: 4.134 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

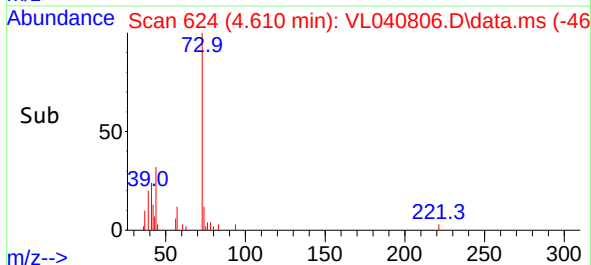
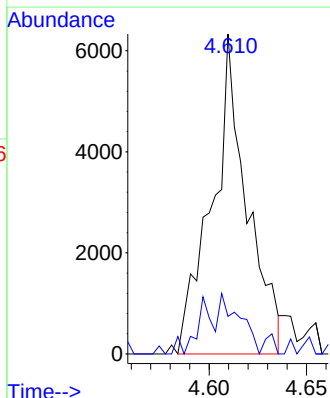
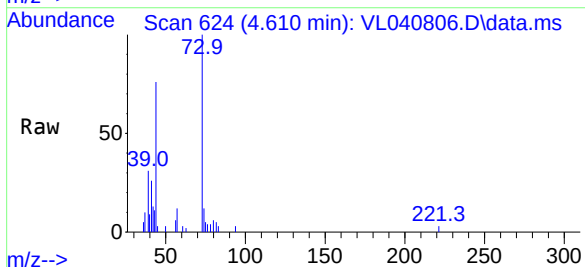
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2023DL

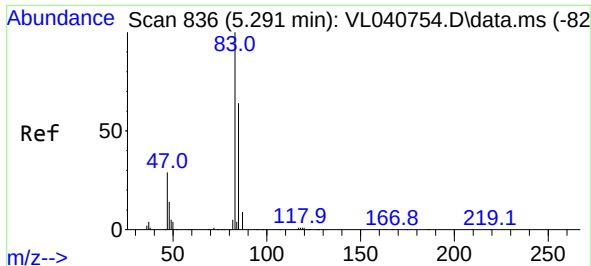
Tgt Ion: 76 Resp: 7724
Ion Ratio Lower Upper
76 100
44 127.1 16.6 25.0#
78 19.3 7.8 11.6#



#28
Methyl tert-Butyl Ether
Concen: 0.107 ppbv
RT: 4.610 min Scan# 624
Delta R.T. 0.006 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

Tgt Ion: 73 Resp: 7901
Ion Ratio Lower Upper
73 100
57 26.8 18.9 28.3





#29

Chloroform

Concen: 0.093 ppbv

RT: 5.269 min Scan# 81

Delta R.T. -0.023 min

Lab File: VL040806.D

Acq: 25 Oct 2023 18:50

Instrument :

MSVOA_L

ClientSampleId :

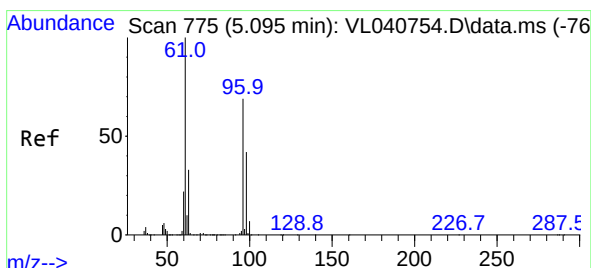
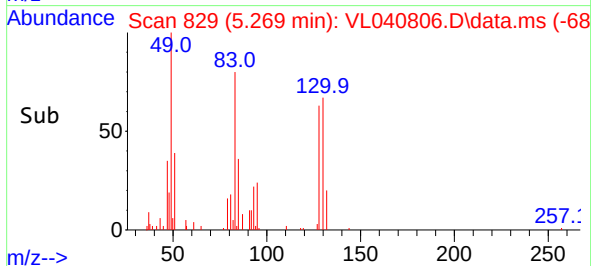
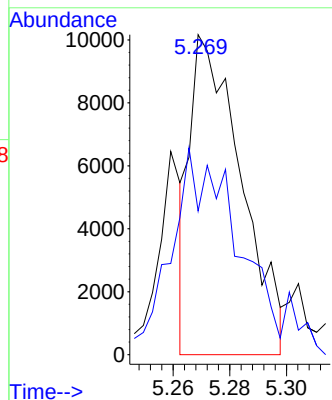
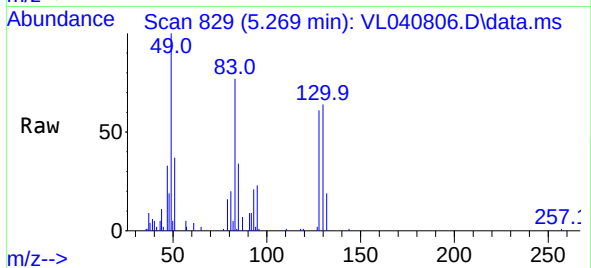
MDL-AIR-03-QT4-2023DL

Tgt Ion: 83 Resp: 12707

Ion Ratio Lower Upper

83 100

85 46.6 51.3 76.9#



#31

cis-1,2-Dichloroethene

Concen: 0.074 ppbv

RT: 5.076 min Scan# 769

Delta R.T. -0.019 min

Lab File: VL040806.D

Acq: 25 Oct 2023 18:50

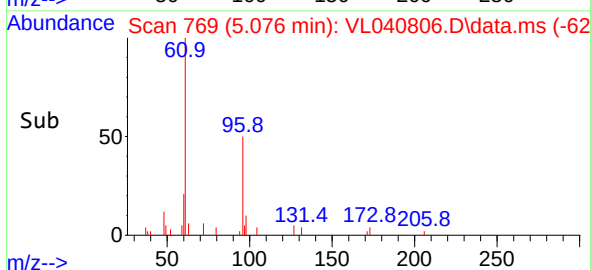
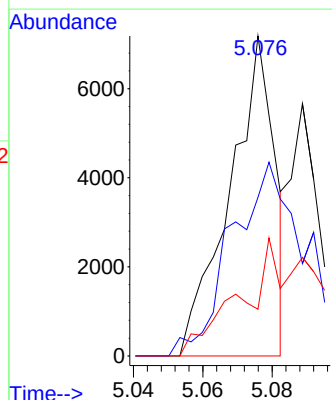
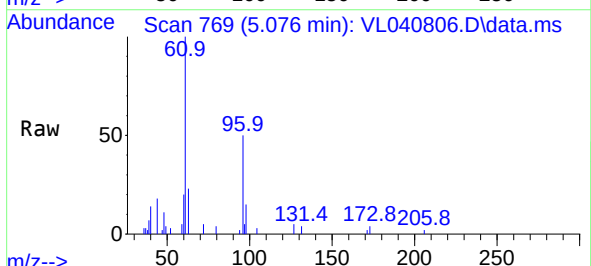
Tgt Ion: 61 Resp: 6499

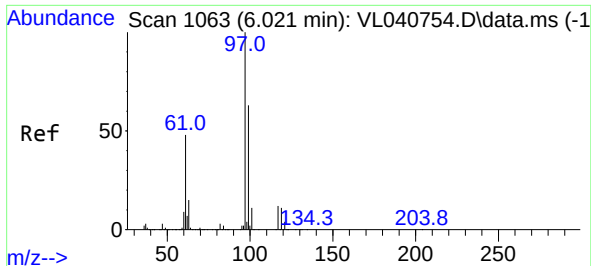
Ion Ratio Lower Upper

61 100

96 43.8 55.1 82.7#

98 14.6 33.5 50.3#

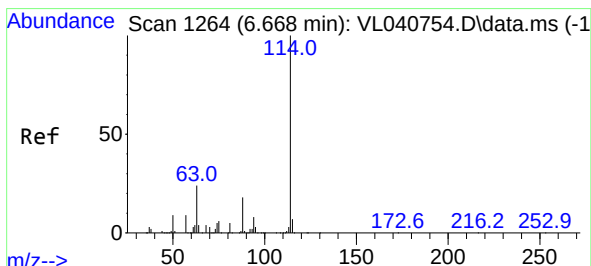
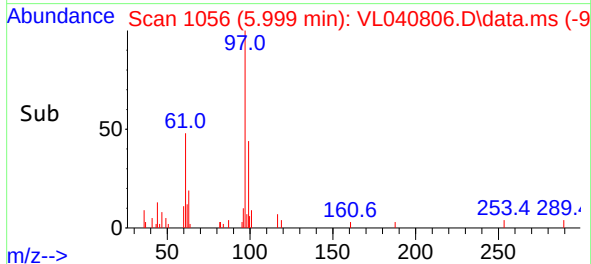
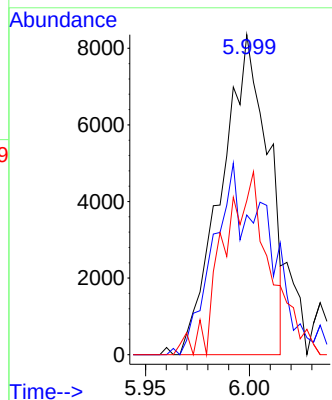
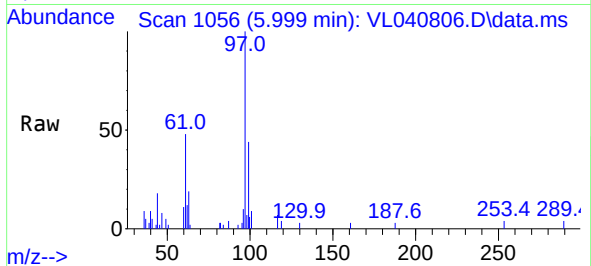




#32
1,1,1-Trichloroethane
Concen: 0.089 ppbv
RT: 5.999 min Scan# 1056
Delta R.T. -0.023 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

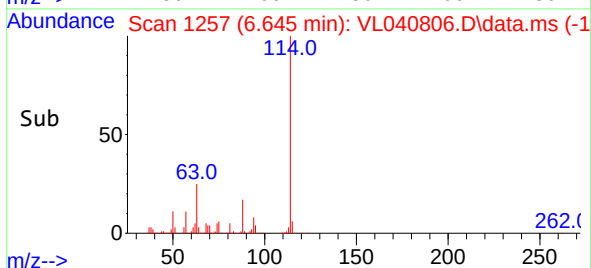
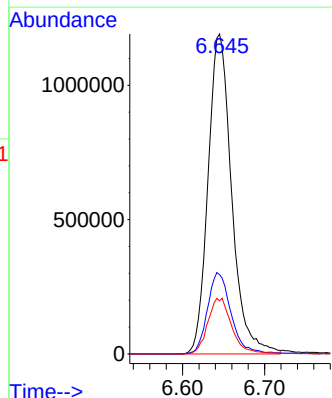
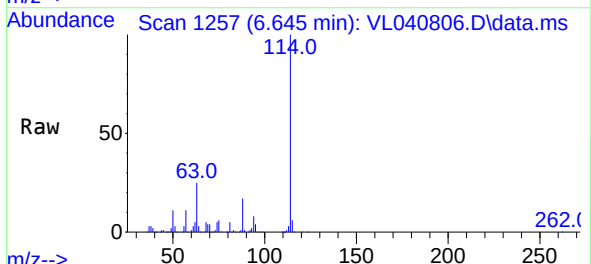
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2023DL

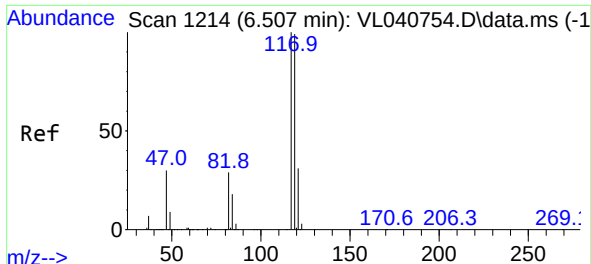
Tgt Ion:	97	Resp:	13003
Ion	Ratio	Lower	Upper
97	100		
99	71.4	51.8	77.6
61	57.9	38.6	58.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.645 min Scan# 1257
Delta R.T. -0.023 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

Tgt Ion:	114	Resp:	2387536
Ion	Ratio	Lower	Upper
114	100		
63	25.6	19.8	29.6
88	17.8	14.2	21.2

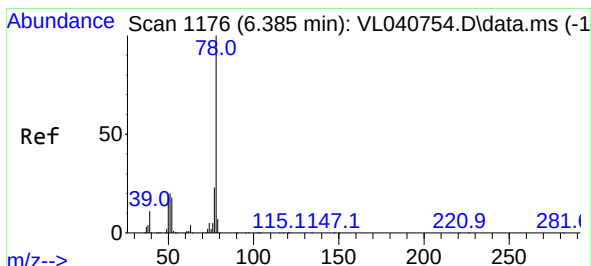
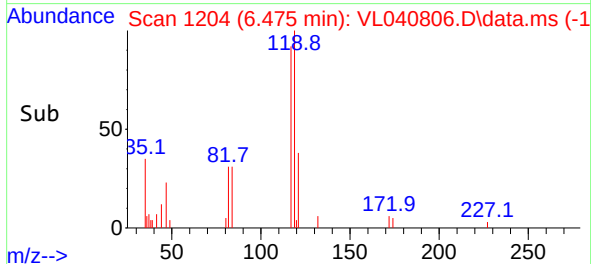
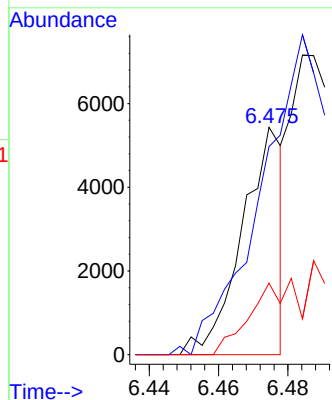
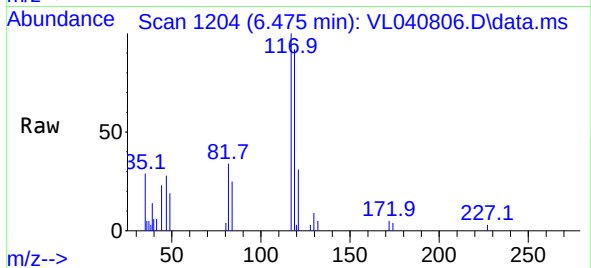




#35
Carbon Tetrachloride
Concen: 0.033 ppbv
RT: 6.475 min Scan# 1169
Delta R.T. -0.032 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

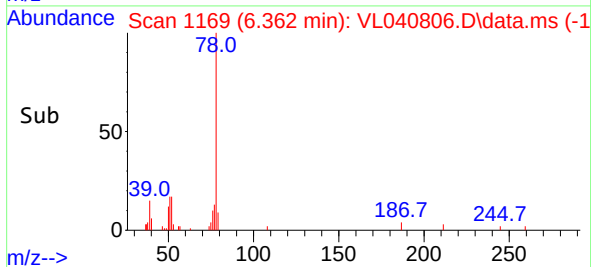
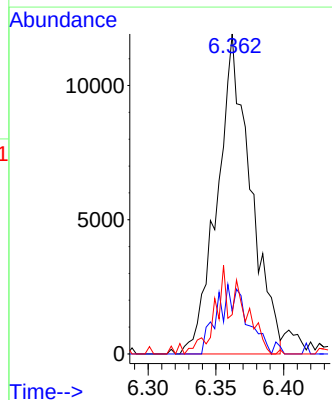
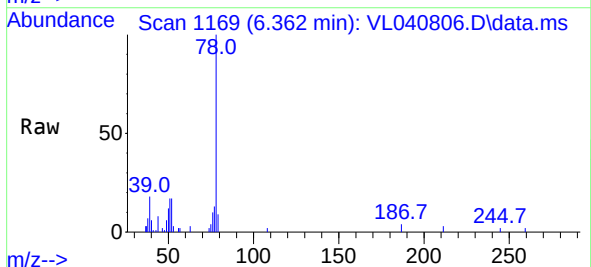
Instrument : MSVOA_L
ClientSampleId : MDL-AIR-03-QT4-2023DL

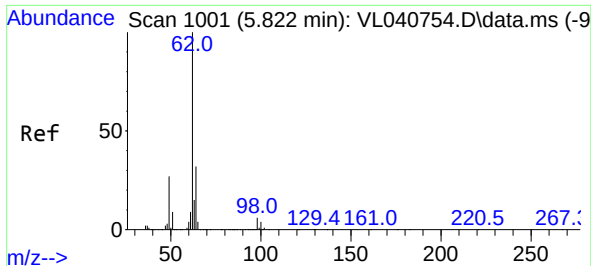
Tgt Ion:117 Resp: 4415
Ion Ratio Lower Upper
117 100
119 87.8 79.4 119.0
121 31.5 25.0 37.4



#36
Benzene
Concen: 0.111 ppbv
RT: 6.362 min Scan# 1169
Delta R.T. -0.023 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

Tgt Ion: 78 Resp: 20301
Ion Ratio Lower Upper
78 100
77 13.3 18.4 27.6#
50 11.0 15.0 22.4#

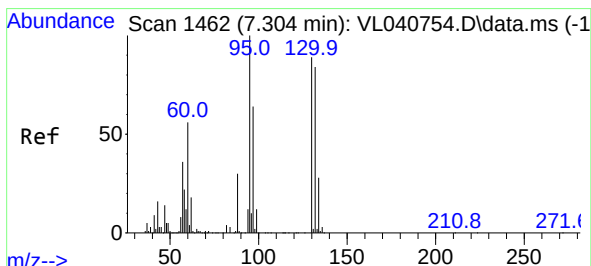
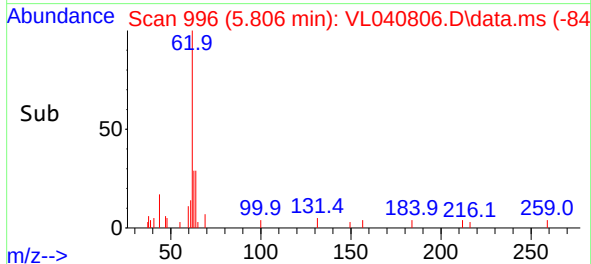
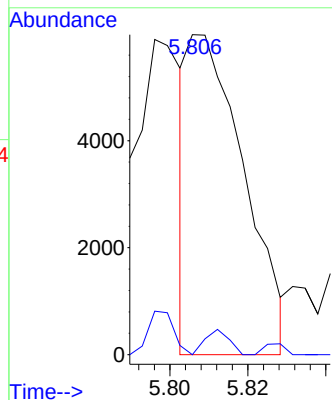
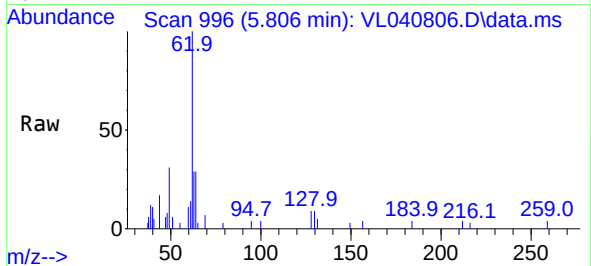




#37
1,2-Dichloroethane
Concen: 0.063 ppbv
RT: 5.806 min Scan# 91
Delta R.T. -0.016 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

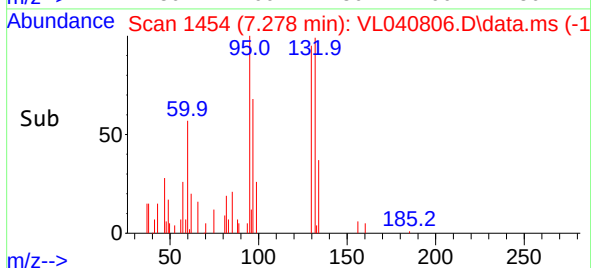
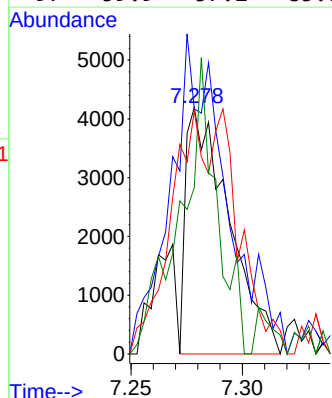
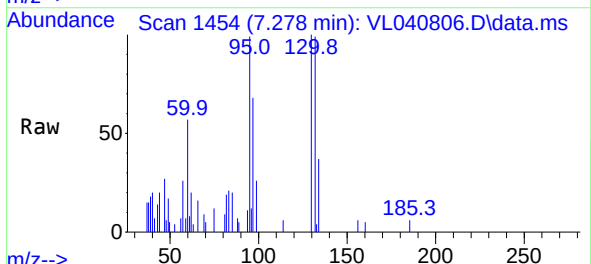
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2023DL

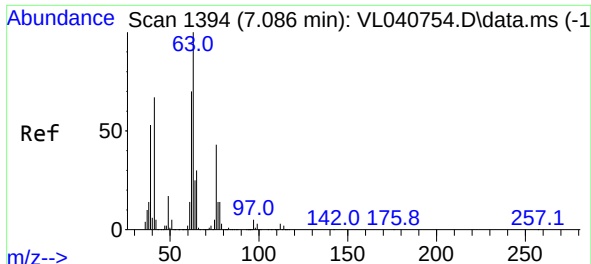
Tgt Ion: 62 Resp: 5952
Ion Ratio Lower Upper
62 100
98 0.0 5.4 8.0#



#38
Trichloroethene
Concen: 0.070 ppbv
RT: 7.278 min Scan# 1454
Delta R.T. -0.026 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

Tgt Ion:130 Resp: 5669
Ion Ratio Lower Upper
130 100
95 82.6 89.4 134.2#
132 93.0 74.8 112.2
97 59.9 57.2 85.8





#39

1,2-Dichloropropane

Concen: 8.352 ppbv

RT: 6.642 min Scan# 1

Delta R.T. -0.444 min

Lab File: VL040806.D

Acq: 25 Oct 2023 18:50

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT4-2023DL

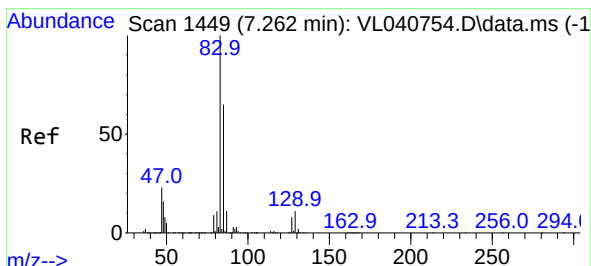
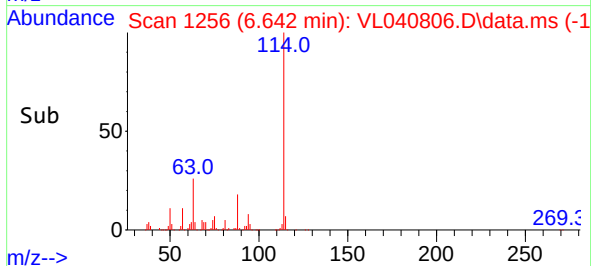
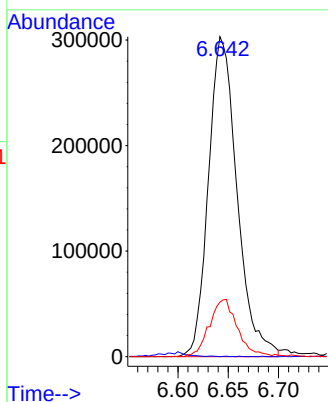
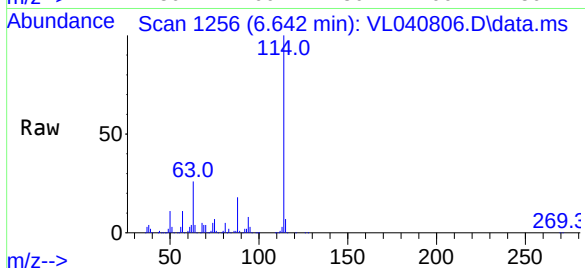
Tgt Ion: 63 Resp: 599230

Ion Ratio Lower Upper

63 100

41 0.0 53.7 80.5#

62 16.9 55.7 83.5#



#42

Bromodichloromethane

Concen: 0.100 ppbv

RT: 7.240 min Scan# 1442

Delta R.T. -0.023 min

Lab File: VL040806.D

Acq: 25 Oct 2023 18:50

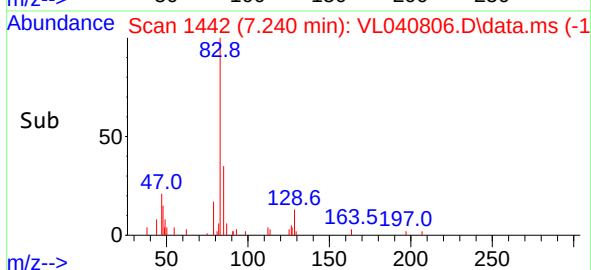
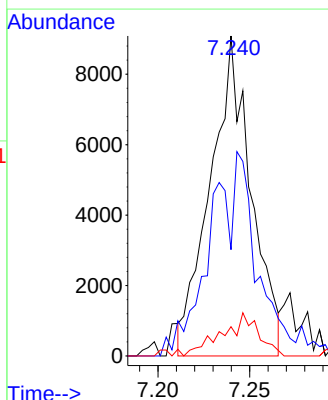
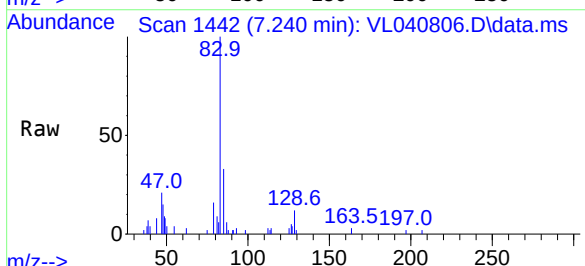
Tgt Ion: 83 Resp: 14096

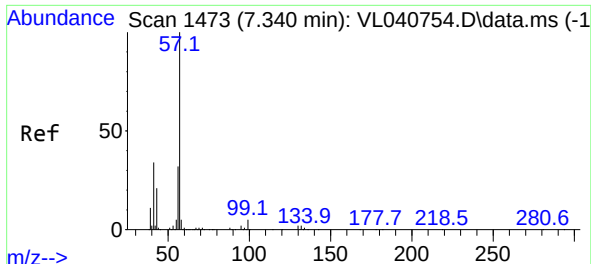
Ion Ratio Lower Upper

83 100

85 24.7 52.1 78.1#

127 8.3 6.7 10.1

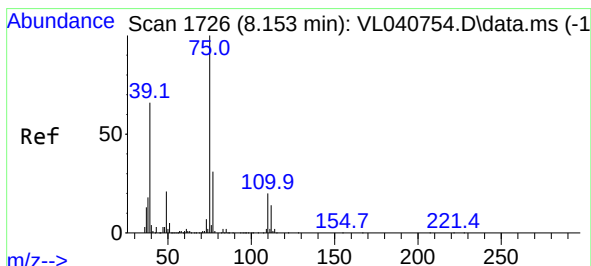
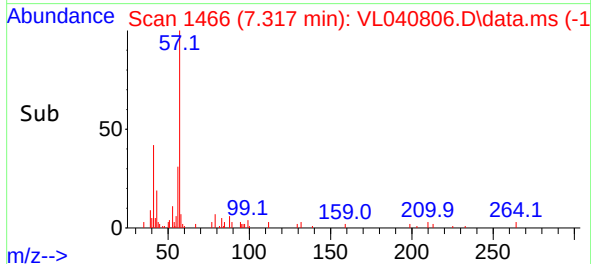
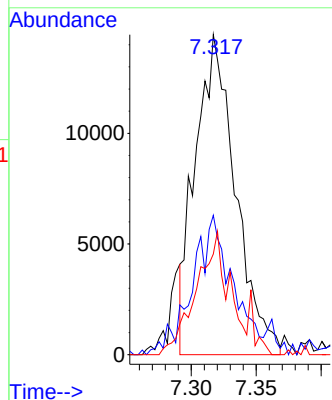
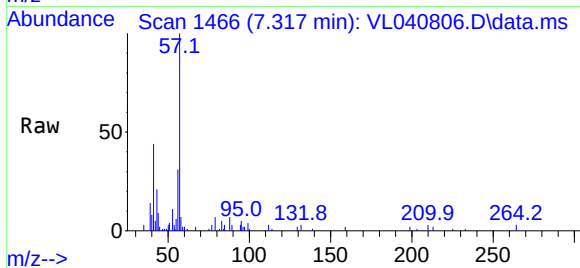




#44
2,2,4-Trimethylpentane
Concen: 0.100 ppbv
RT: 7.317 min Scan# 1473
Delta R.T. -0.023 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

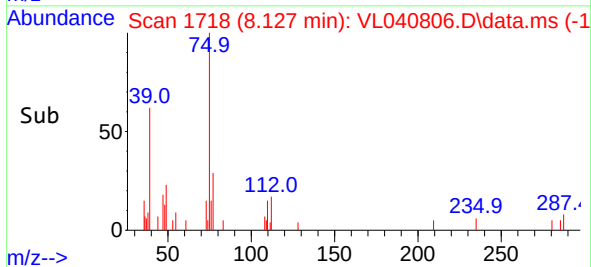
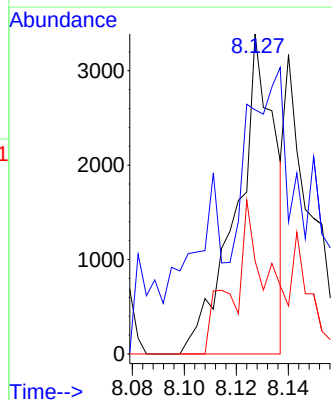
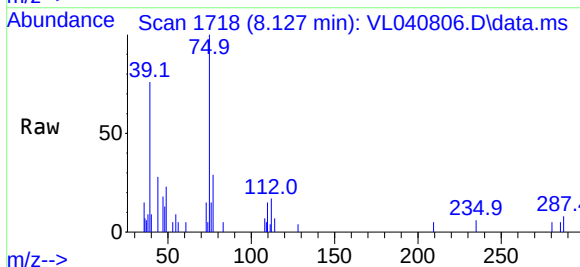
Instrument : MSVOA_L
ClientSampleId : MDL-AIR-03-QT4-2023DL

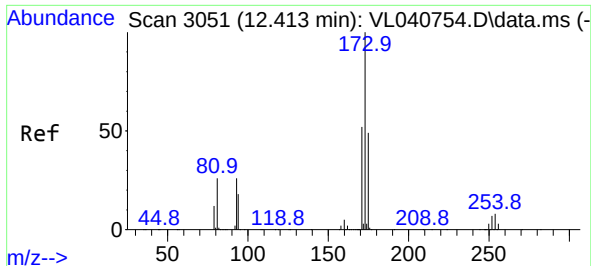
Tgt Ion: 57 Resp: 31017
Ion Ratio Lower Upper
57 100
41 46.5 27.4 41.0#
56 34.9 25.0 37.6



#46
cis-1,3-Dichloropropene
Concen: 0.048 ppbv
RT: 8.127 min Scan# 1718
Delta R.T. -0.026 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

Tgt Ion: 75 Resp: 3450
Ion Ratio Lower Upper
75 100
39 50.3 52.4 78.6#
77 29.1 25.1 37.7

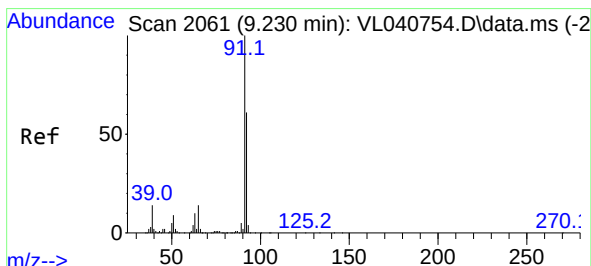
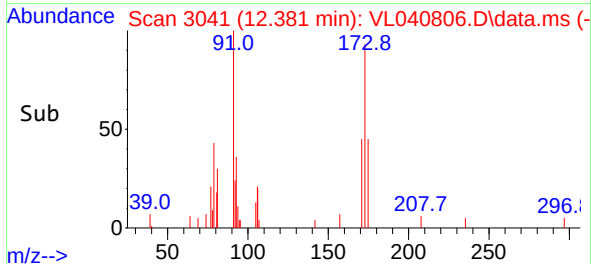
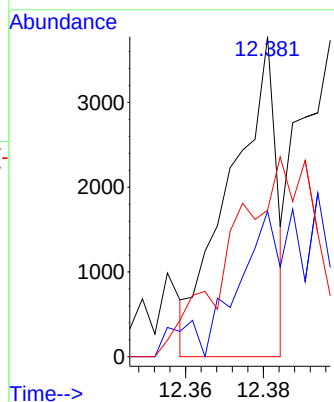
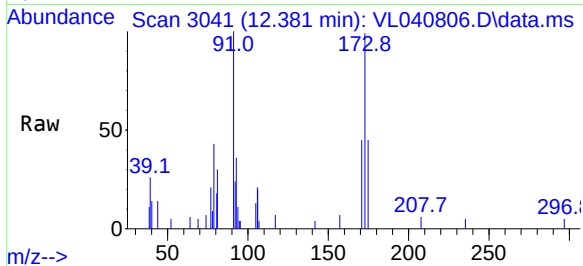




#49
Bromoform
Concen: 0.030 ppbv
RT: 12.381 min Scan# 3051
Delta R.T. -0.032 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

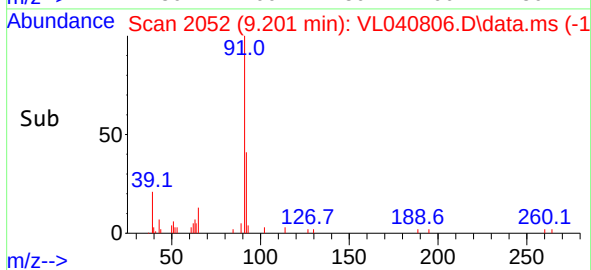
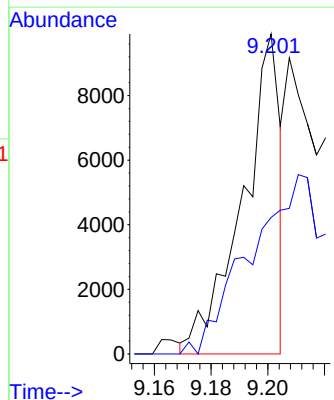
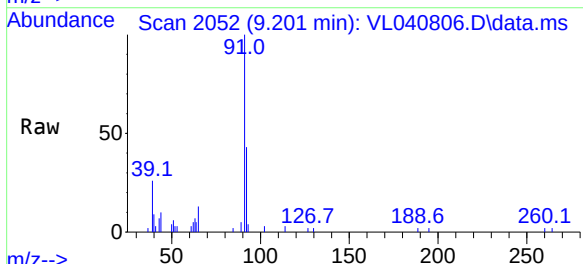
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2023DL

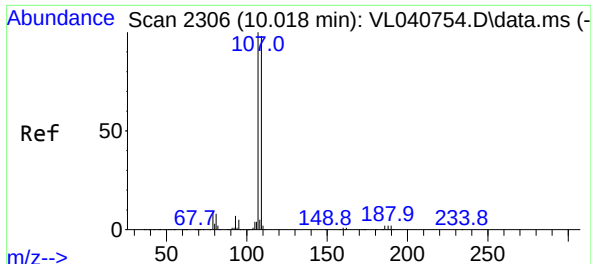
Tgt Ion:173 Resp: 3095
Ion Ratio Lower Upper
173 100
175 0.0 39.2 58.8#
171 150.1 42.0 63.0#



#53
Toluene
Concen: 0.042 ppbv
RT: 9.201 min Scan# 2052
Delta R.T. -0.029 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

Tgt Ion: 91 Resp: 9105
Ion Ratio Lower Upper
91 100
92 0.0 50.2 75.2#





#54

1,2-Dibromoethane

Concen: 0.070 ppbv

RT: 9.992 min Scan# 21

Delta R.T. -0.026 min

Lab File: VL040806.D

Acq: 25 Oct 2023 18:50

Instrument :

MSVOA_L

ClientSampleId :

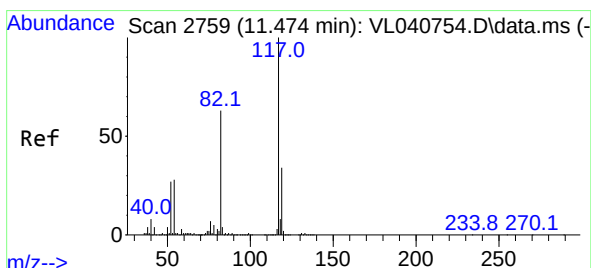
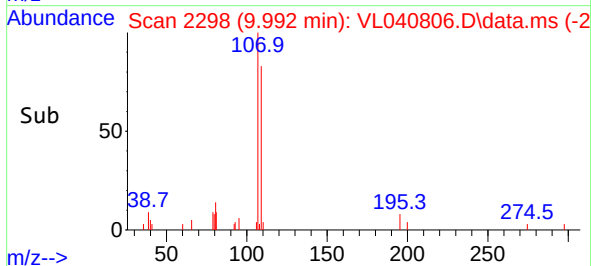
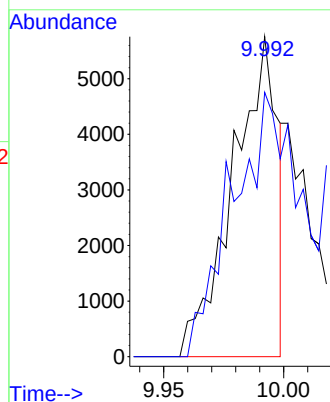
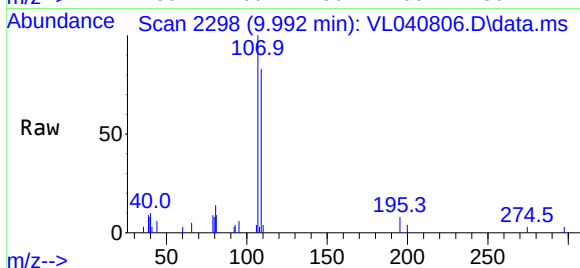
MDL-AIR-03-QT4-2023DL

Tgt Ion:107 Resp: 7423

Ion Ratio Lower Upper

107 100

109 82.6 78.2 117.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.445 min Scan# 2750

Delta R.T. -0.029 min

Lab File: VL040806.D

Acq: 25 Oct 2023 18:50

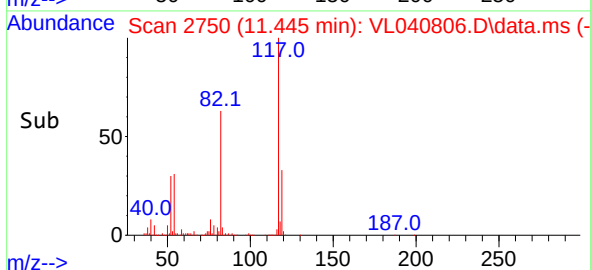
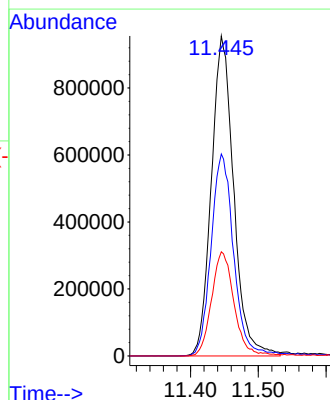
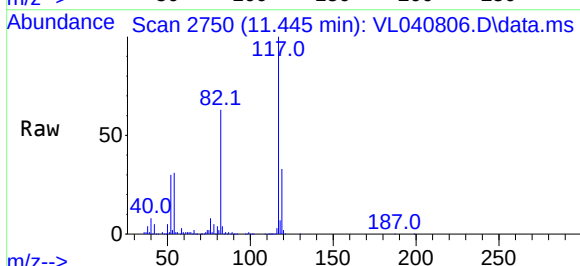
Tgt Ion:117 Resp: 2183536

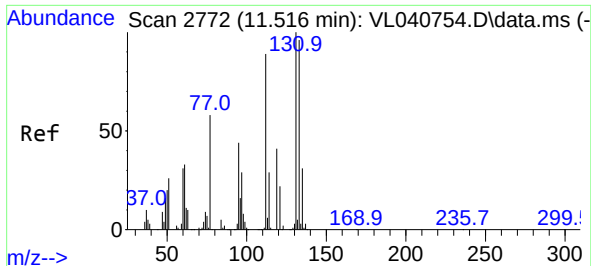
Ion Ratio Lower Upper

117 100

82 64.5 46.6 70.0

119 33.1 26.0 39.0

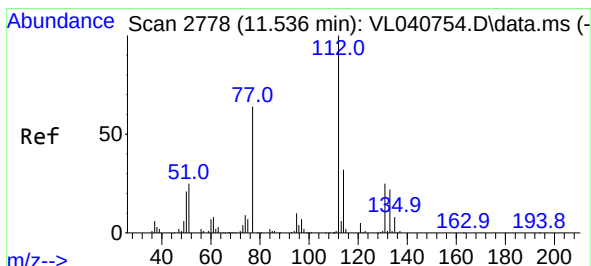
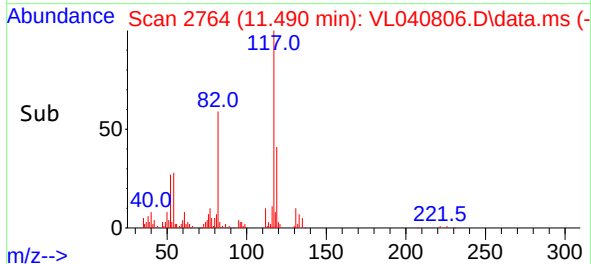
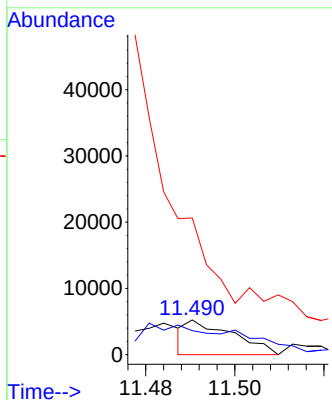
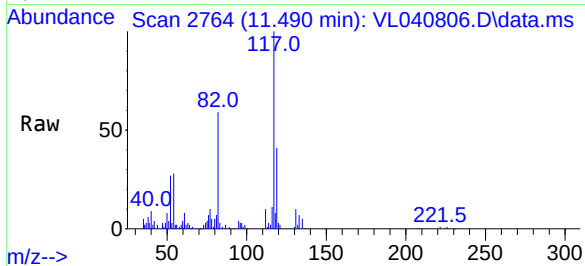




#56
1,1,1,2-Tetrachloroethane
Concen: 0.042 ppbv
RT: 11.490 min Scan# 21
Delta R.T. -0.026 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

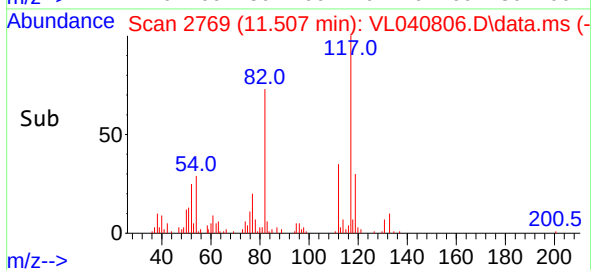
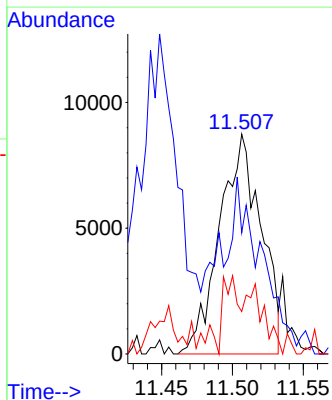
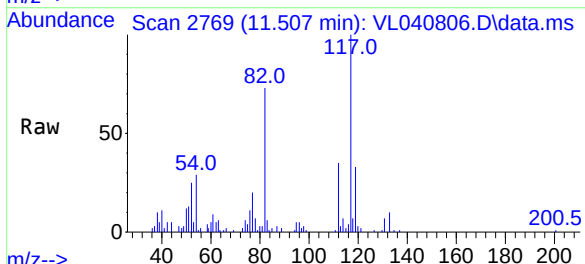
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2023DL

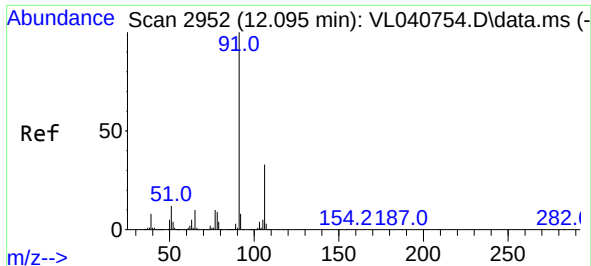
Tgt Ion:131 Resp: 3783
Ion Ratio Lower Upper
131 100
133 0.0 75.0 112.6#
119 0.0 45.4 68.0#



#57
Chlorobenzene
Concen: 0.114 ppbv
RT: 11.507 min Scan# 2769
Delta R.T. -0.029 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

Tgt Ion:112 Resp: 17781
Ion Ratio Lower Upper
112 100
77 26.6 51.9 77.9#
114 12.7 28.6 35.0#





#58

Ethyl Benzene

Concen: 0.044 ppbv

RT: 12.069 min Scan# 2952

Delta R.T. -0.026 min

Lab File: VL040806.D

Acq: 25 Oct 2023 18:50

Instrument :

MSVOA_L

ClientSampleId :

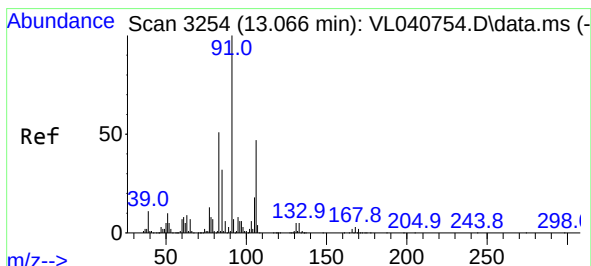
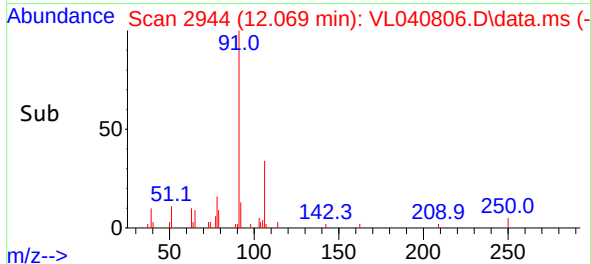
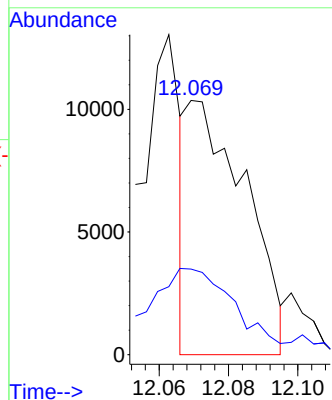
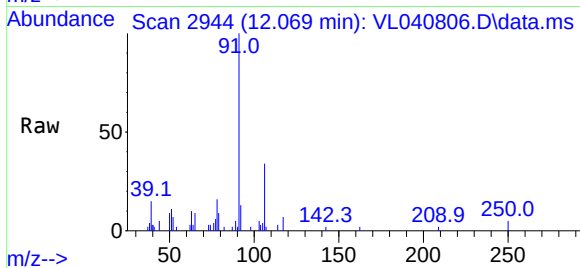
MDL-AIR-03-QT4-2023DL

Tgt Ion: 91 Resp: 12163

Ion Ratio Lower Upper

91 100

106 36.1 26.7 40.1



#60

o-Xylene

Concen: 0.037 ppbv

RT: 13.031 min Scan# 3243

Delta R.T. -0.035 min

Lab File: VL040806.D

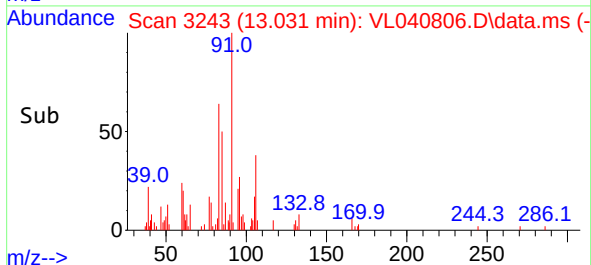
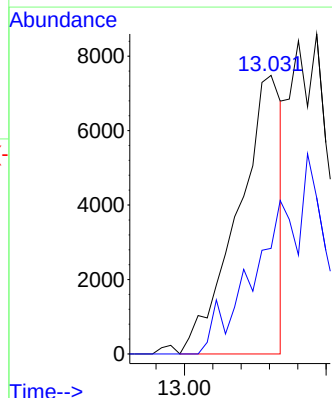
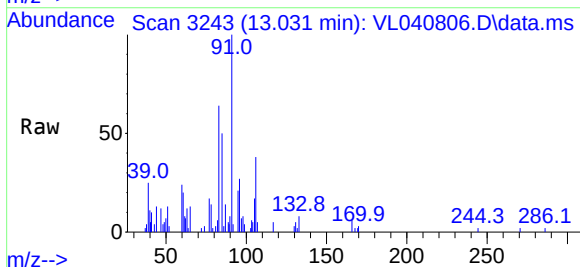
Acq: 25 Oct 2023 18:50

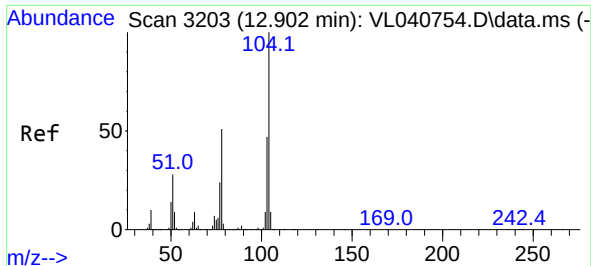
Tgt Ion: 91 Resp: 8010

Ion Ratio Lower Upper

91 100

106 0.0 23.5 70.5#

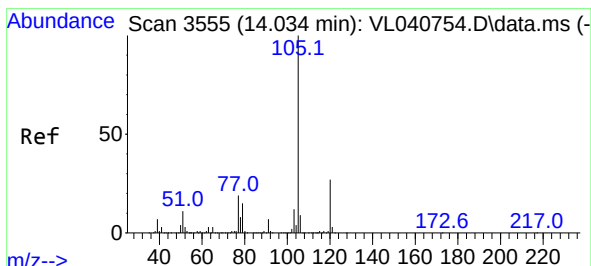
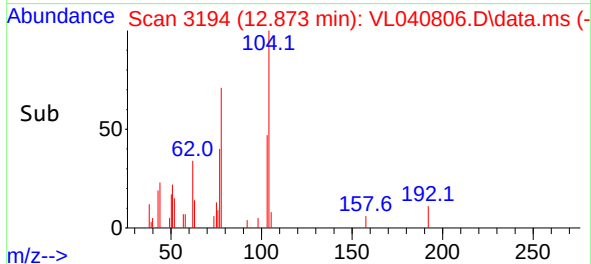
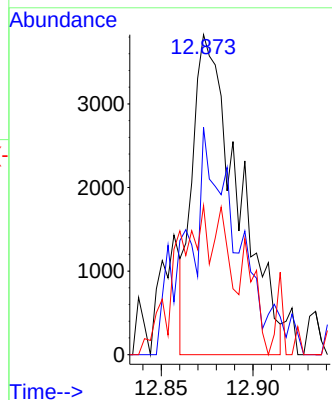
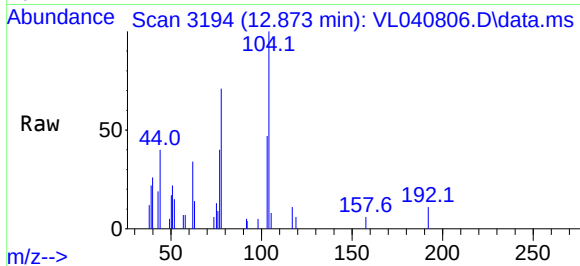




#61
Styrene
Concen: 0.055 ppbv
RT: 12.873 min Scan# 3194
Delta R.T. -0.029 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

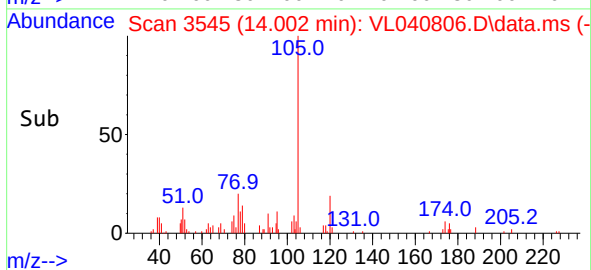
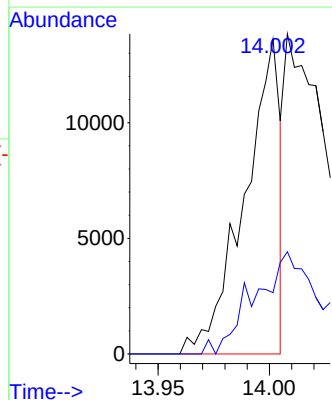
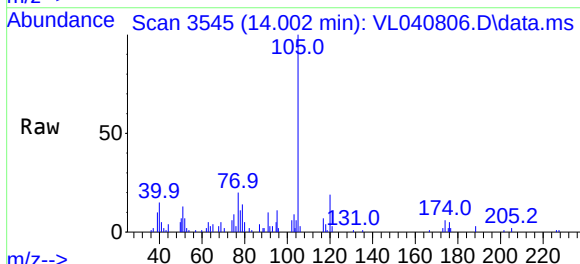
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2023DL

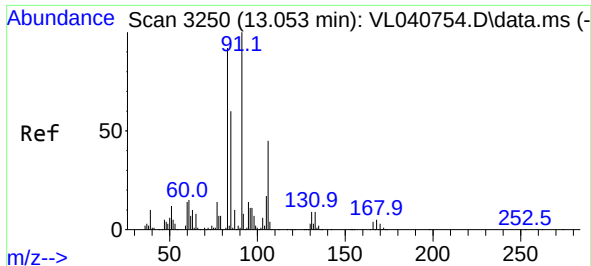
Tgt Ion:104 Resp: 6592
Ion Ratio Lower Upper
104 100
78 80.0 39.8 59.6#
103 64.4 37.5 56.3#



#62
Isopropylbenzene
Concen: 0.046 ppbv
RT: 14.002 min Scan# 3545
Delta R.T. -0.032 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

Tgt Ion:105 Resp: 15164
Ion Ratio Lower Upper
105 100
120 0.0 21.5 32.3#

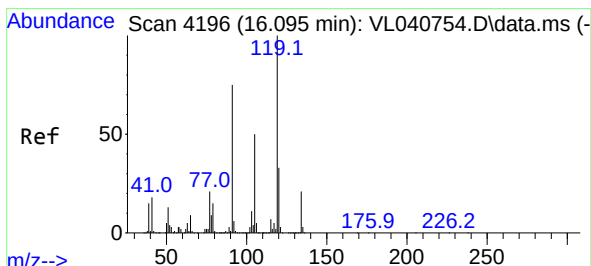
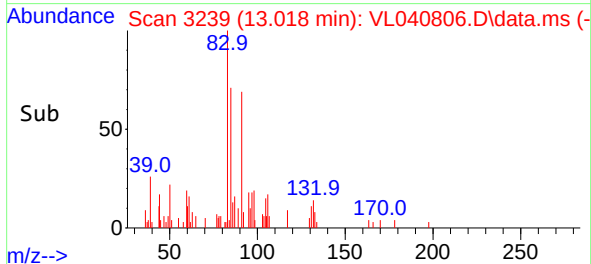
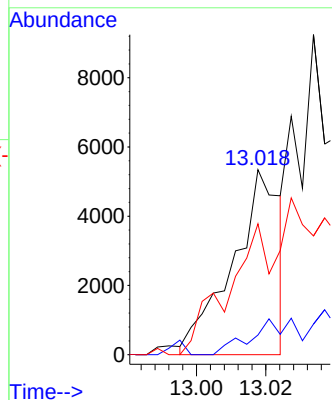
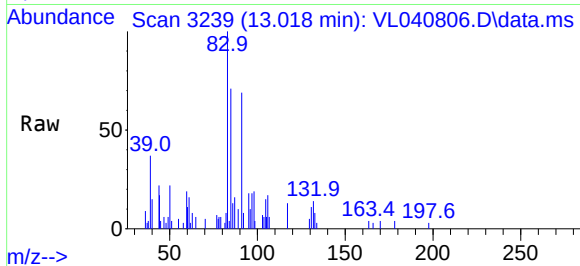




#63
1,1,2,2-Tetrachloroethane
Concen: 0.031 ppbv
RT: 13.018 min Scan# 31
Delta R.T. -0.035 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

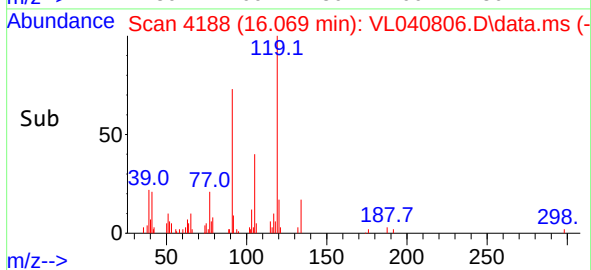
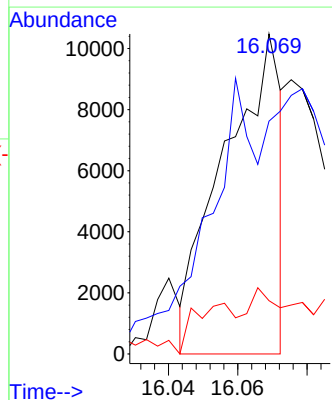
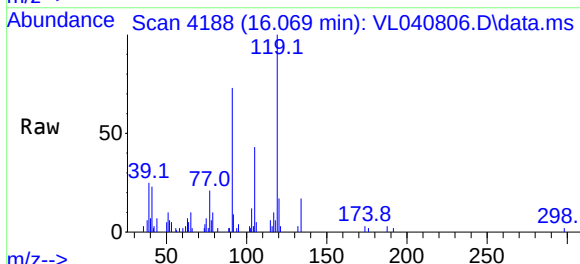
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2023DL

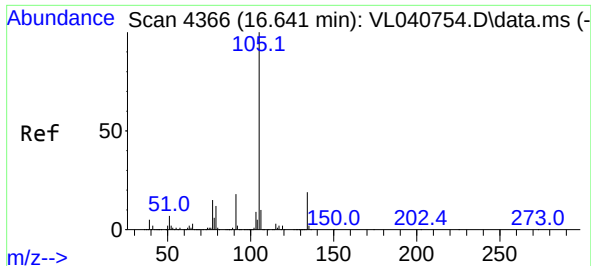
Tgt Ion: 83 Resp: 5062
Ion Ratio Lower Upper
83 100
131 0.0 4.9 14.6#
85 0.0 32.9 98.7#



#65
tert-Butylbenzene
Concen: 0.040 ppbv
RT: 16.069 min Scan# 4188
Delta R.T. -0.026 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

Tgt Ion: 119 Resp: 12008
Ion Ratio Lower Upper
119 100
91 218.4 62.2 93.2#
134 44.2 16.1 24.1#





#67

sec-Butylbenzene

Concen: 0.044 ppbv

RT: 16.612 min Scan# 41

Delta R.T. -0.029 min

Lab File: VL040806.D

Acq: 25 Oct 2023 18:50

Instrument :

MSVOA_L

ClientSampleId :

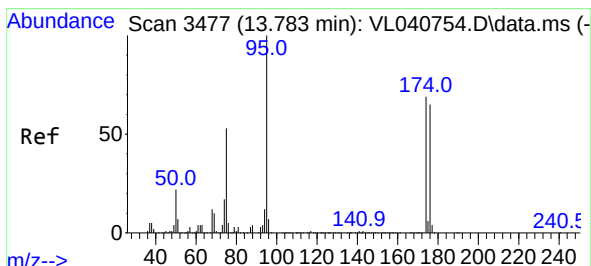
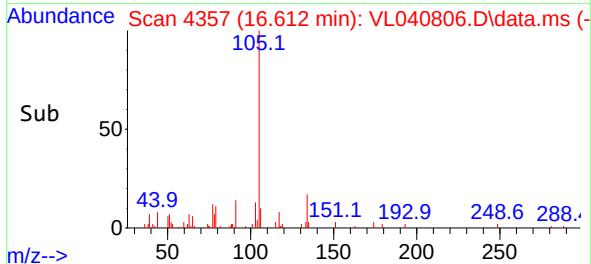
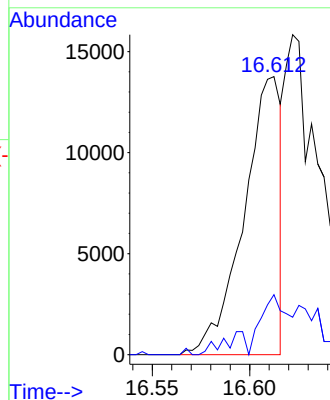
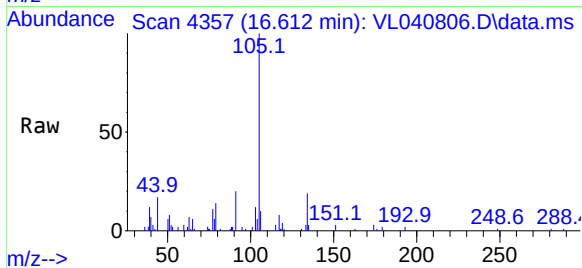
MDL-AIR-03-QT4-2023DL

Tgt Ion:105 Resp: 18152

Ion Ratio Lower Upper

105 100

134 35.3 15.4 23.2#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.584 ppbv

RT: 13.757 min Scan# 3469

Delta R.T. -0.026 min

Lab File: VL040806.D

Acq: 25 Oct 2023 18:50

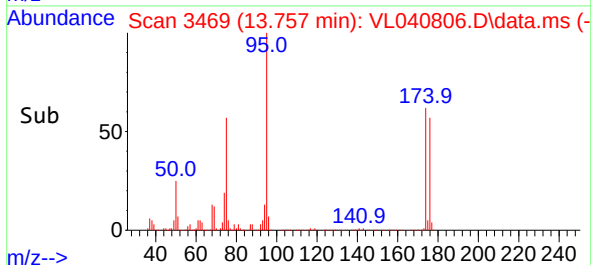
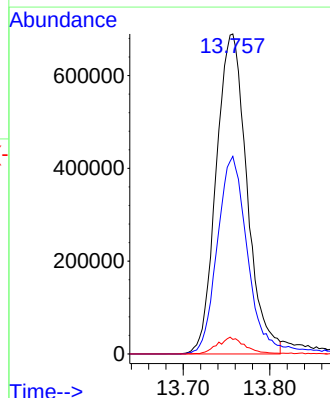
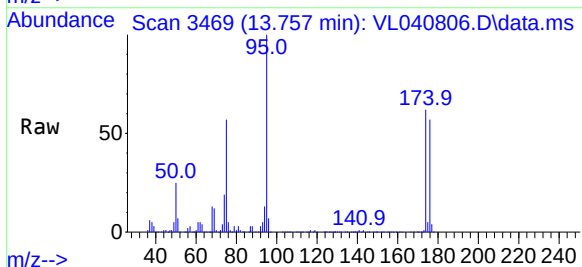
Tgt Ion: 95 Resp: 1700555

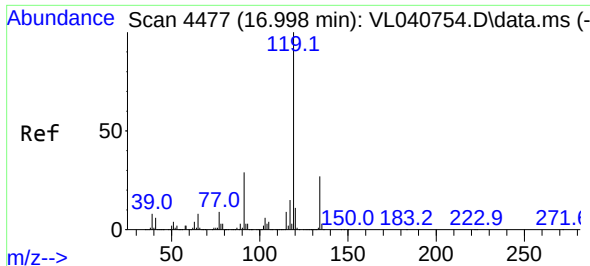
Ion Ratio Lower Upper

95 100

174 63.3 54.7 82.1

175 4.8 4.2 6.4

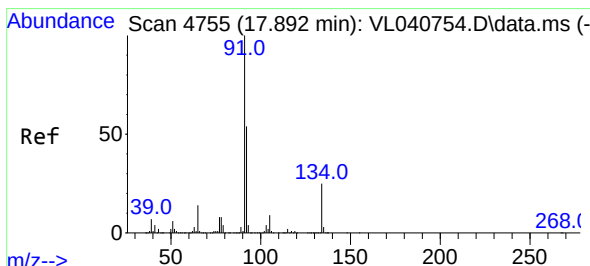
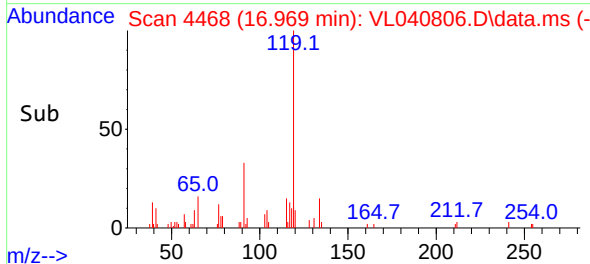
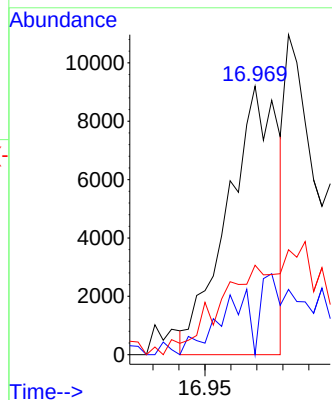
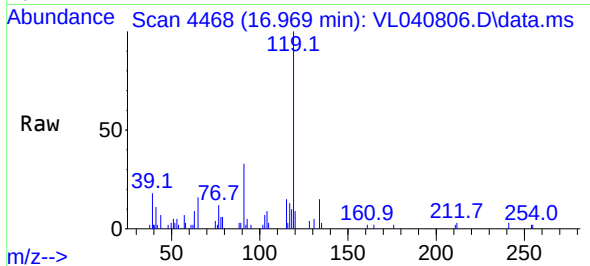




#69
p-Isopropyltoluene
Concen: 0.036 ppbv
RT: 16.969 min Scan# 4477
Delta R.T. -0.029 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

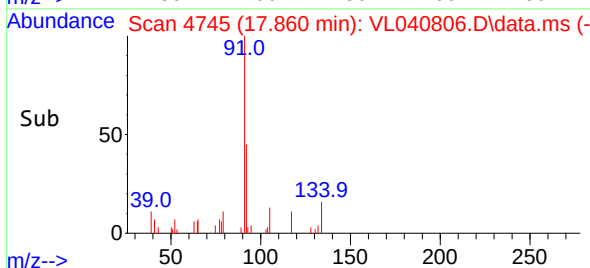
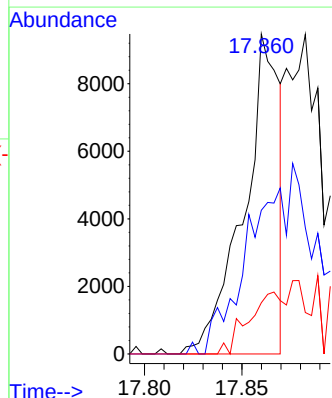
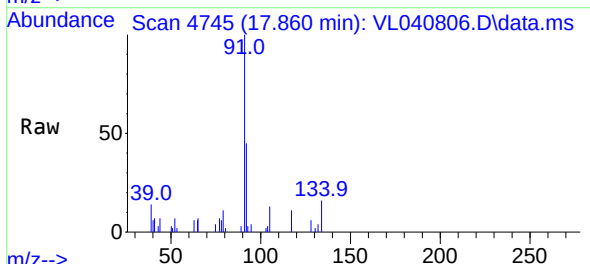
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2023DL

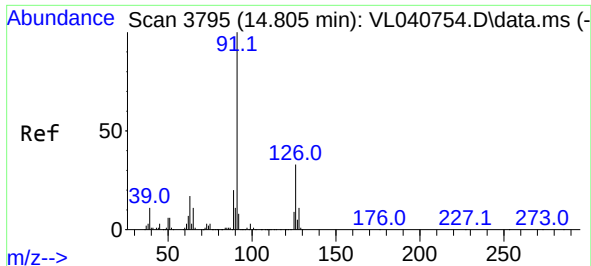
Tgt Ion:119 Resp: 12349
Ion Ratio Lower Upper
119 100
134 14.6 21.0 31.4#
91 0.0 22.8 34.2#



#70
n-Butylbenzene
Concen: 0.035 ppbv
RT: 17.860 min Scan# 4745
Delta R.T. -0.032 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

Tgt Ion: 91 Resp: 11931
Ion Ratio Lower Upper
91 100
92 0.0 44.1 66.1#
134 0.0 19.5 29.3#

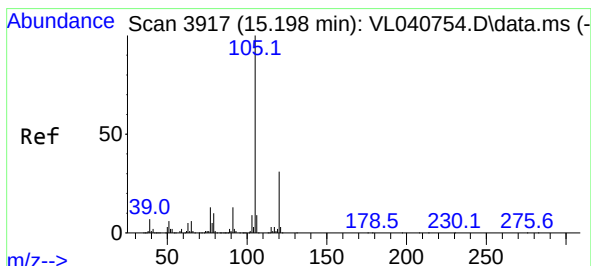
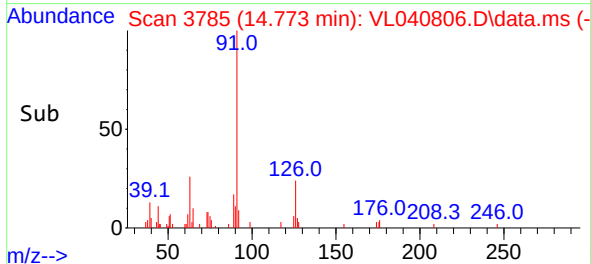
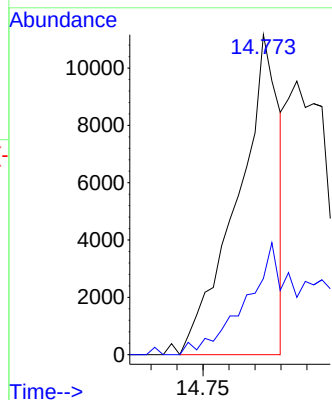
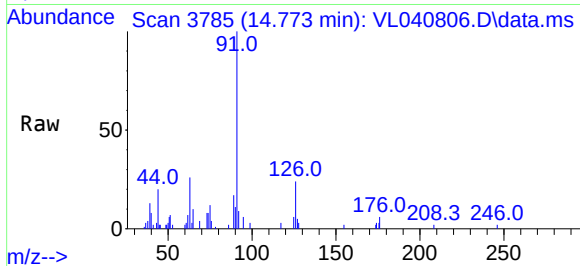




#71
2-Chlorotoluene
Concen: 0.050 ppbv
RT: 14.773 min Scan# 31
Delta R.T. -0.032 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

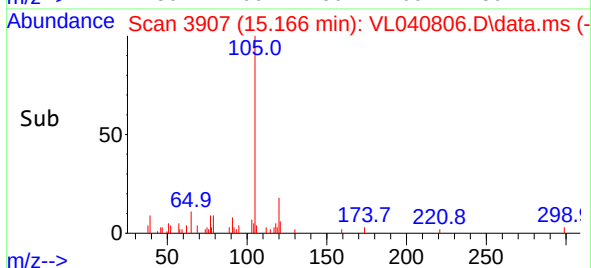
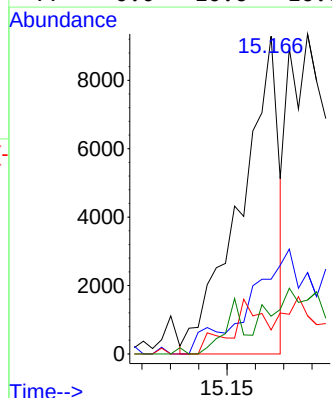
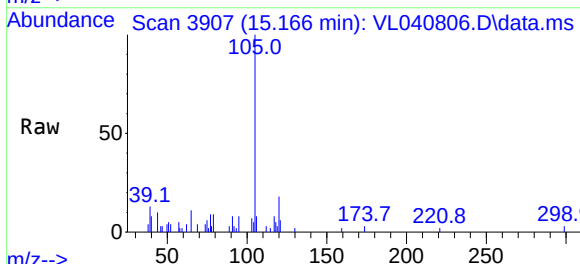
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT4-2023DL

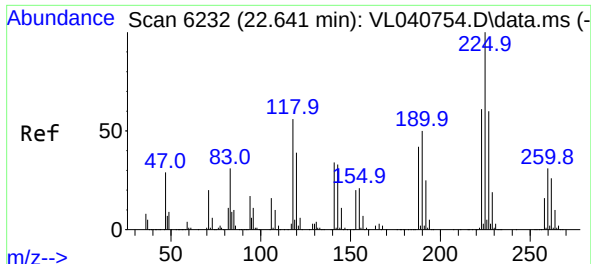
Tgt Ion: 91 Resp: 12368
Ion Ratio Lower Upper
91 100
126 60.7 13.3 53.1#



#72
4-Ethyltoluene
Concen: 0.034 ppbv
RT: 15.166 min Scan# 3907
Delta R.T. -0.032 min
Lab File: VL040806.D
Acq: 25 Oct 2023 18:50

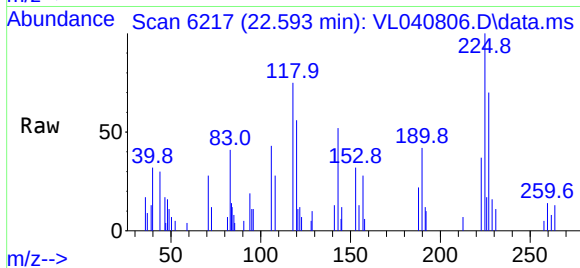
Tgt Ion: 105 Resp: 8692
Ion Ratio Lower Upper
105 100
120 0.0 25.0 37.4#
91 0.0 9.8 14.8#
77 0.0 10.6 16.0#





#78
 Hexachloro-1,3-Butadiene
 Concen: 0.037 ppbv
 RT: 22.593 min Scan# 61
 Delta R.T. -0.048 min
 Lab File: VL040806.D
 Acq: 25 Oct 2023 18:50

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT4-2023DL



Tgt Ion:225 Resp: 3958
 Ion Ratio Lower Upper
 225 100
 223 0.0 50.7 76.1#
 227 0.0 51.4 77.0#

