

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011923\
 Data File : VL040119.D
 Acq On : 19 Jan 2023 18:48
 Operator : SY/MD
 Sample : 01223-04DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-4DL2

Quant Time: Jan 20 02:09:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Jan 16 14:40:47 2023
 Response via : Initial Calibration

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

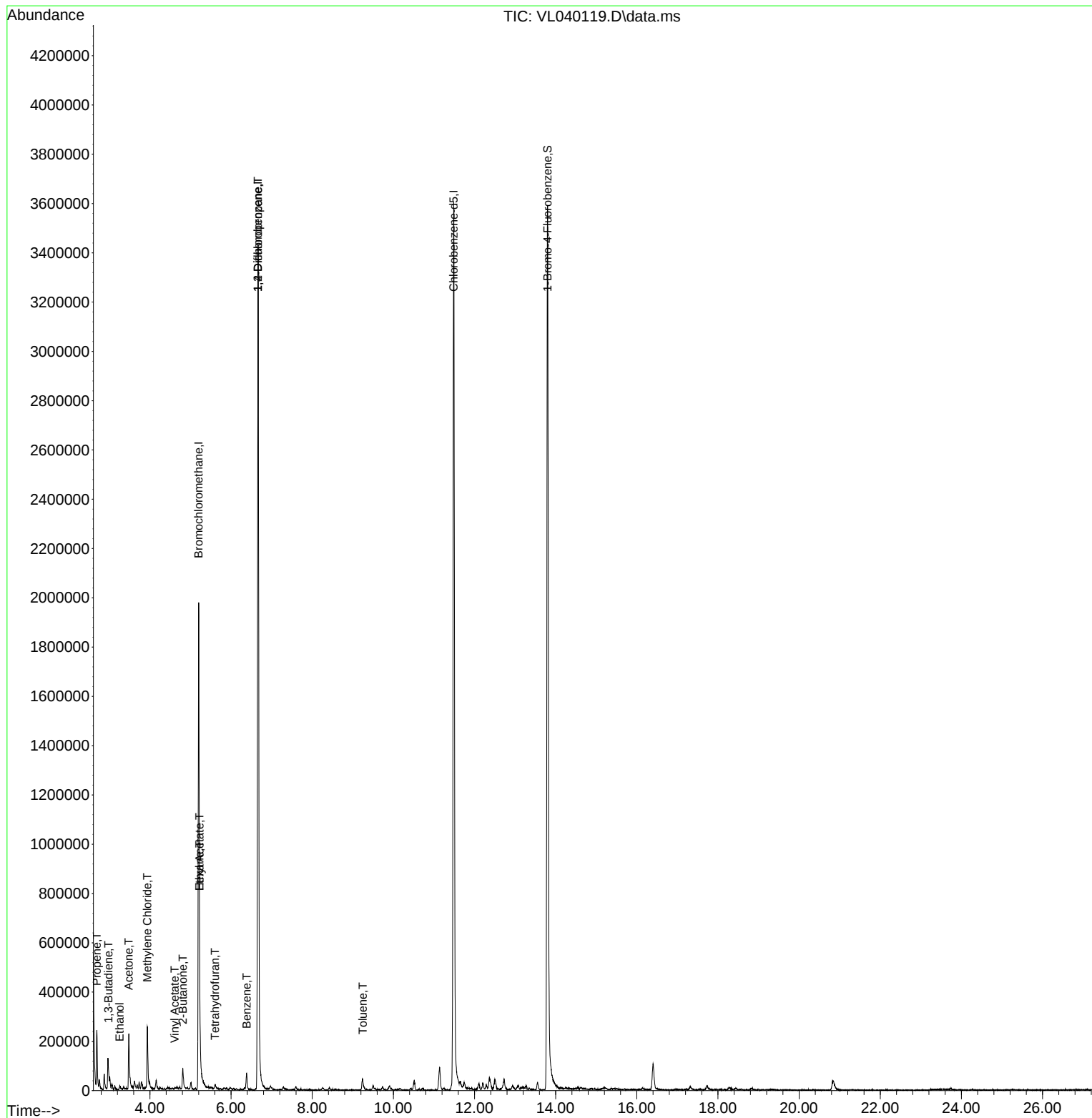
Internal Standards						
1) Bromochloromethane	5.202	49	1014271	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.664	114	2727238	10.000	ppbv	0.01
55) Chlorobenzene-d5	11.487	117	2469408	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.799	95	1948047	9.492	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.900%
Target Compounds						
					Qvalue	
9) Propene	2.690	41	99401	1.967	ppbv	94
13) Ethanol	3.256	45	12317	2.648	ppbv	77
15) Acetone	3.478	43	220820	1.815	ppbv #	85
16) 1,3-Butadiene	2.977	39	22252	0.392	ppbv	97
20) Methylene Chloride	3.935	84	84951	1.583	ppbv	91
23) Vinyl Acetate	4.610	43	1472	0.037	ppbv #	82
25) Ethyl Acetate	5.224	43	44585	0.208	ppbv #	82
26) Hexane	5.224	57	30523	0.325	ppbv #	42
34) 2-Butanone	4.812	43	107438	0.833	ppbv	99
36) Benzene	6.385	78	55348	0.274	ppbv #	91
39) 1,2-Dichloropropane	6.664	63	675634	8.559	ppbv #	23
41) Tetrahydrofuran	5.603	42	9605	0.129	ppbv #	61
53) Toluene	9.243	91	17236	0.080	ppbv #	6

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

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Quant Time: Jan 20 02:09:06 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Mon Jan 16 14:40:47 2023
Response via : Initial Calibration

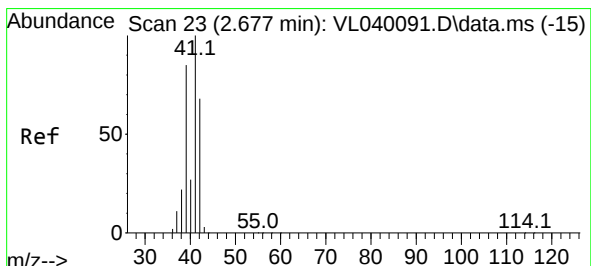
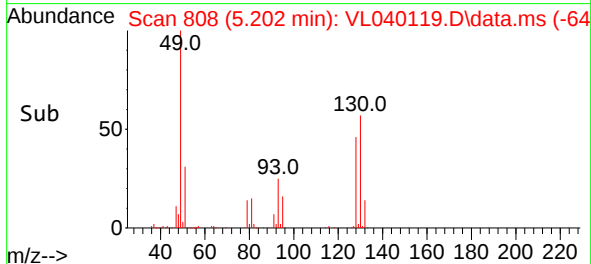
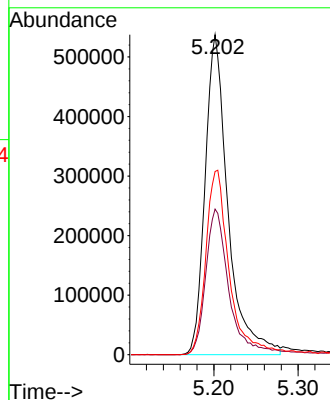
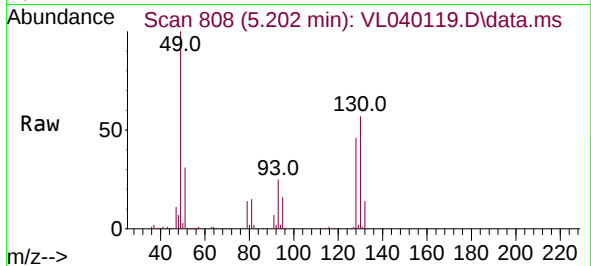




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.202 min Scan# 80
Delta R.T. 0.017 min
Lab File: VL040119.D
Acq: 19 Jan 2023 18:48

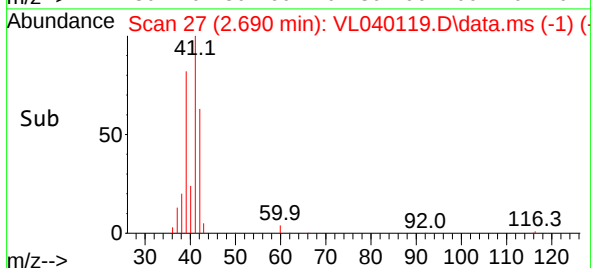
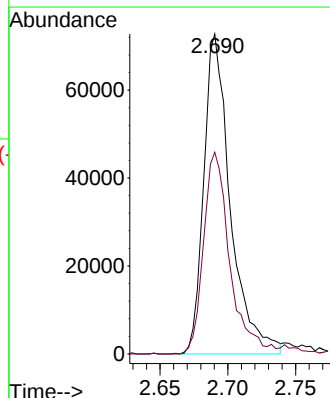
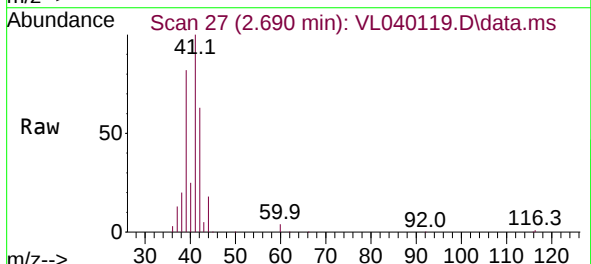
Instrument :
MSVOA_L
ClientSampleId :
VP-4DL2

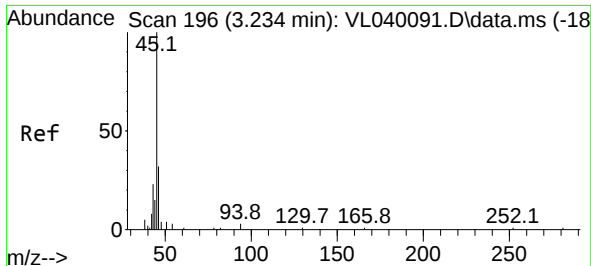
Tgt Ion: 49 Resp: 1014271
Ion Ratio Lower Upper
49 100
128 47.7 23.6 71.0
130 61.4 29.8 89.3



#9
Propene
Concen: 1.967 ppbv
RT: 2.690 min Scan# 27
Delta R.T. 0.013 min
Lab File: VL040119.D
Acq: 19 Jan 2023 18:48

Tgt Ion: 41 Resp: 99401
Ion Ratio Lower Upper
41 100
42 64.6 55.6 83.4

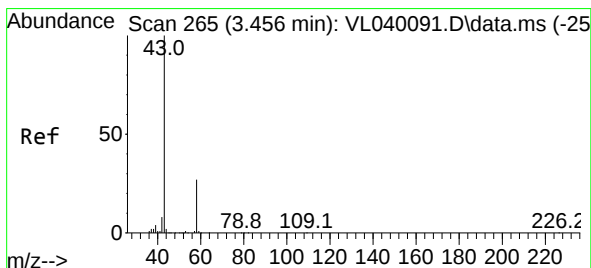
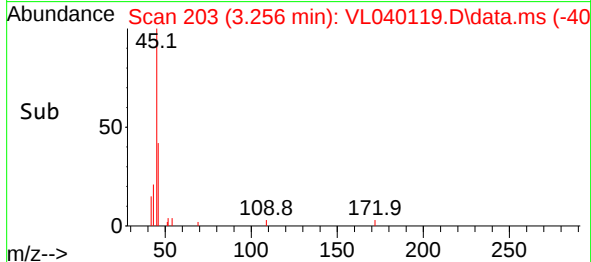
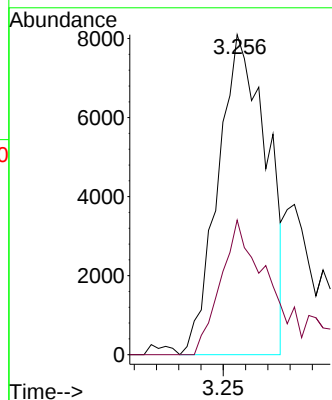
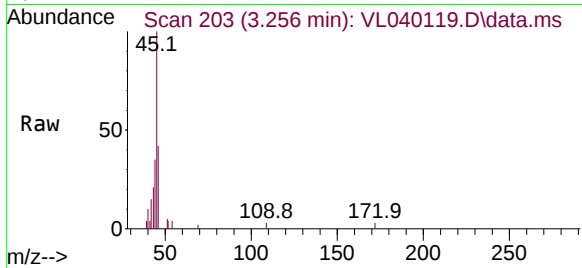




#13
Ethanol
Concen: 2.648 ppbv
RT: 3.256 min Scan# 203
Delta R.T. 0.023 min
Lab File: VL040119.D
Acq: 19 Jan 2023 18:48

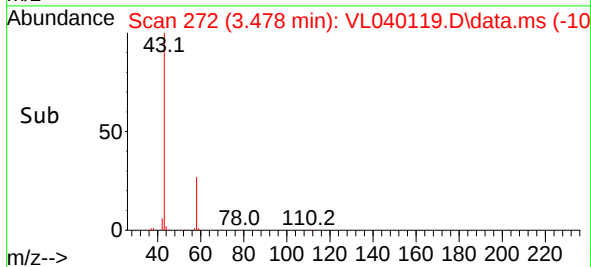
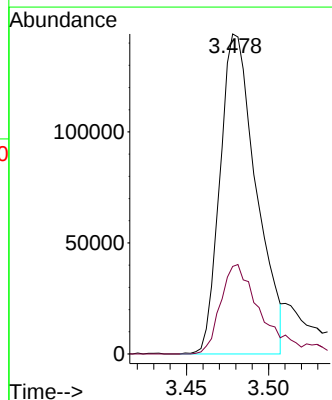
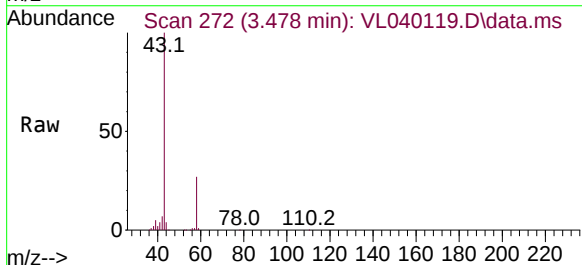
Instrument :
MSVOA_L
ClientSampleId :
VP-4DL2

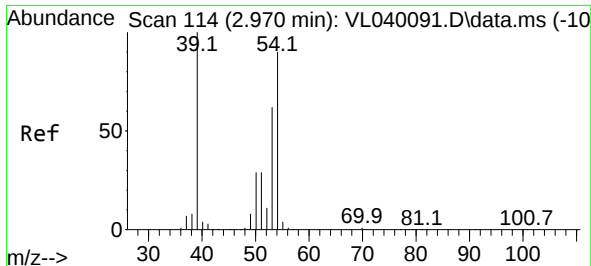
Tgt Ion: 45 Resp: 12317
Ion Ratio Lower Upper
45 100
46 50.7 14.8 59.2



#15
Acetone
Concen: 1.815 ppbv
RT: 3.478 min Scan# 272
Delta R.T. 0.023 min
Lab File: VL040119.D
Acq: 19 Jan 2023 18:48

Tgt Ion: 43 Resp: 220820
Ion Ratio Lower Upper
43 100
58 34.9 21.8 32.8#

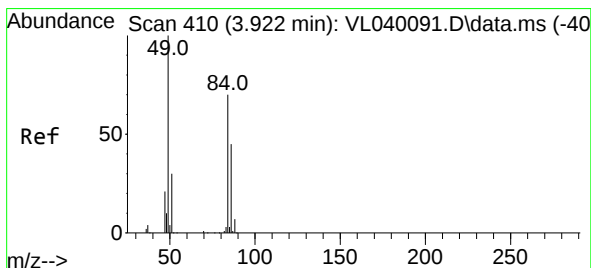
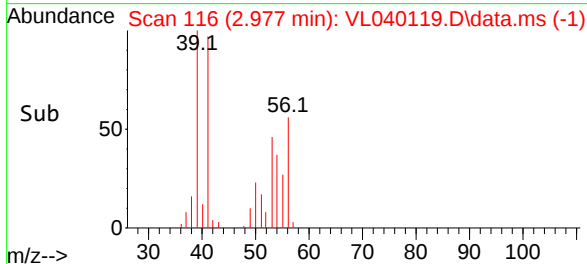
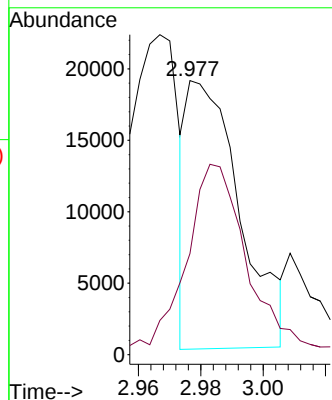
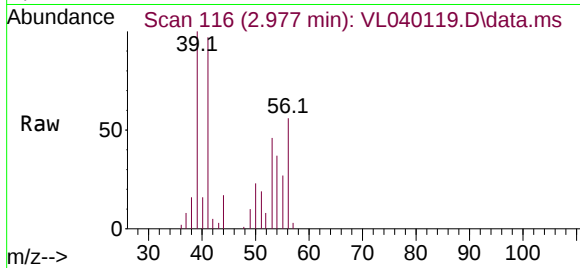




#16
1,3-Butadiene
Concen: 0.392 ppbv
RT: 2.977 min Scan# 114
Delta R.T. 0.006 min
Lab File: VL040119.D
Acq: 19 Jan 2023 18:48

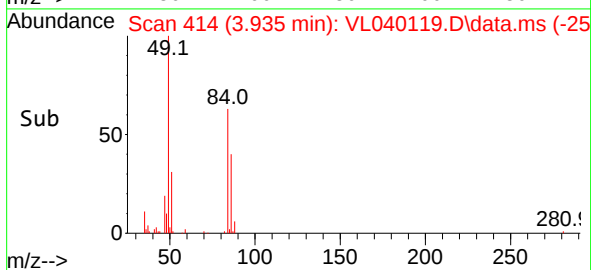
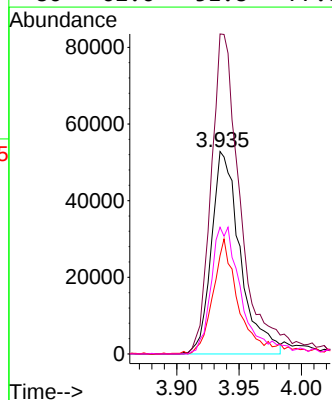
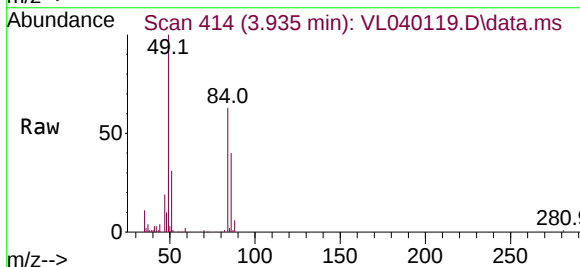
Instrument :
MSVOA_L
ClientSampleId :
VP-4DL2

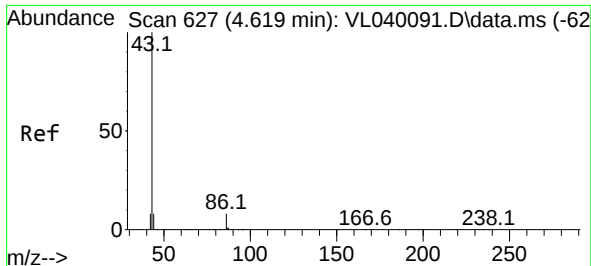
Tgt Ion: 39 Resp: 22252
Ion Ratio Lower Upper
39 100
54 87.9 67.9 101.9



#20
Methylene Chloride
Concen: 1.583 ppbv
RT: 3.935 min Scan# 414
Delta R.T. 0.013 min
Lab File: VL040119.D
Acq: 19 Jan 2023 18:48

Tgt Ion: 84 Resp: 84951
Ion Ratio Lower Upper
84 100
49 158.1 114.6 171.8
51 49.3 34.3 51.5
86 62.6 51.8 77.8

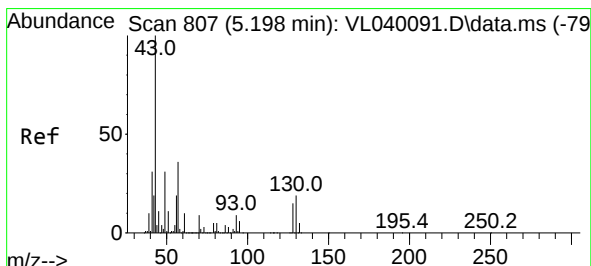
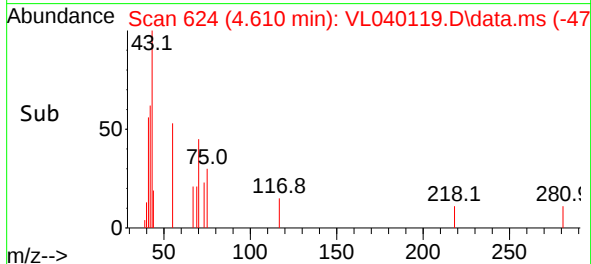
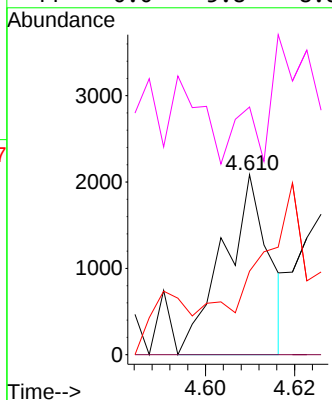
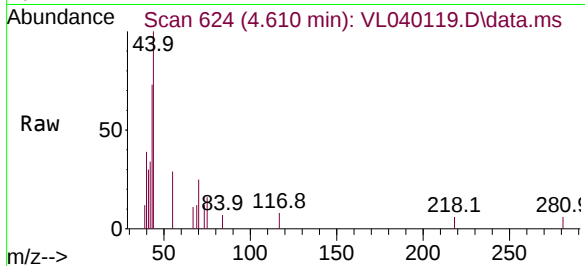




#23
 Vinyl Acetate
 Concen: 0.037 ppbv
 RT: 4.610 min Scan# 61
 Delta R.T. -0.010 min
 Lab File: VL040119.D
 Acq: 19 Jan 2023 18:48

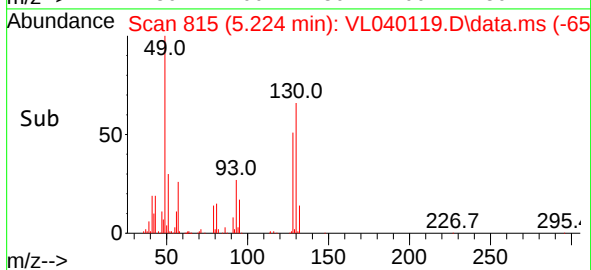
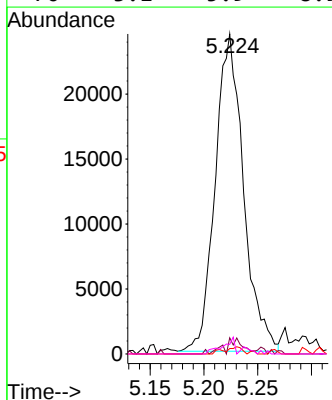
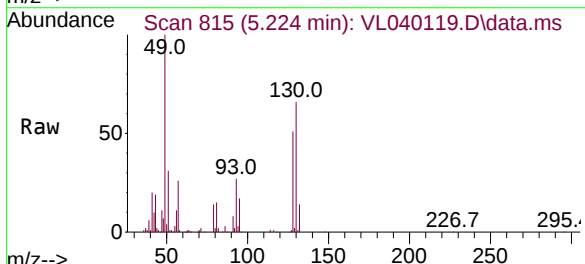
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-4DL2

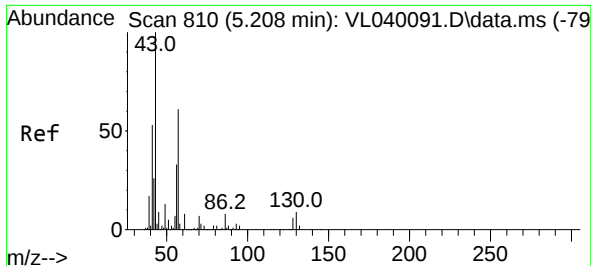
Tgt Ion: 43	Resp: 1472
Ion Ratio	Lower Upper
43 100	
86 0.0	5.6 8.4#
42 15.0	7.7 11.5#
44 0.0	5.8 8.8#



#25
 Ethyl Acetate
 Concen: 0.208 ppbv
 RT: 5.224 min Scan# 815
 Delta R.T. 0.026 min
 Lab File: VL040119.D
 Acq: 19 Jan 2023 18:48

Tgt	Ion: 43	Resp:	44585
Ion	Ratio	Lower	Upper
43	100		
45	4.1	8.5	12.7#
61	1.5	8.4	12.6#
70	3.1	5.9	8.9#

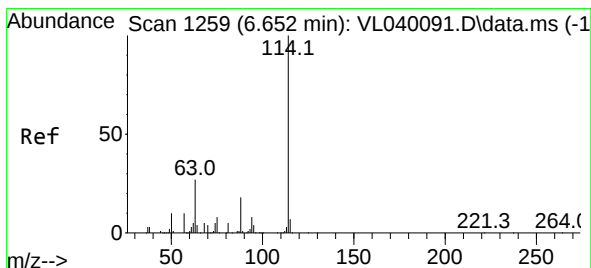
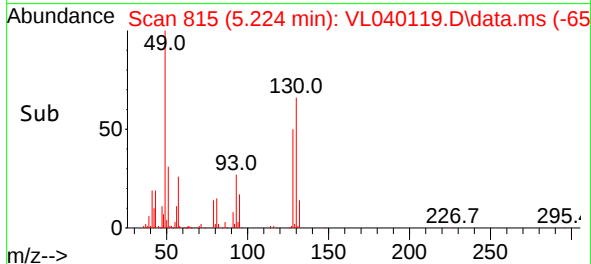
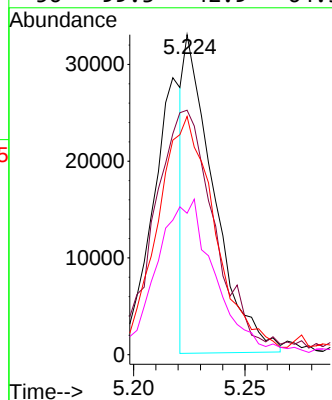
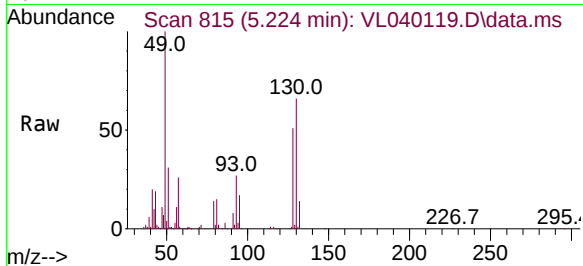




#26
Hexane
Concen: 0.325 ppbv
RT: 5.224 min Scan# 810
Delta R.T. 0.016 min
Lab File: VL040119.D
Acq: 19 Jan 2023 18:48

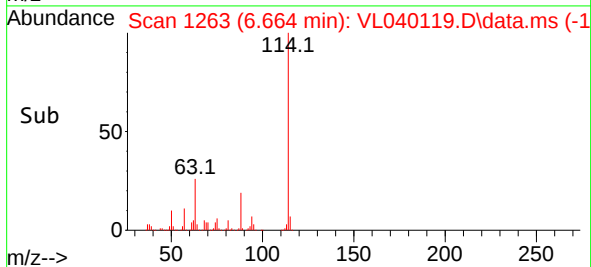
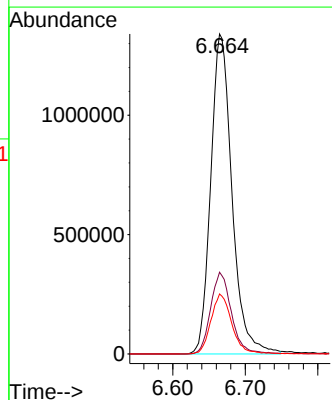
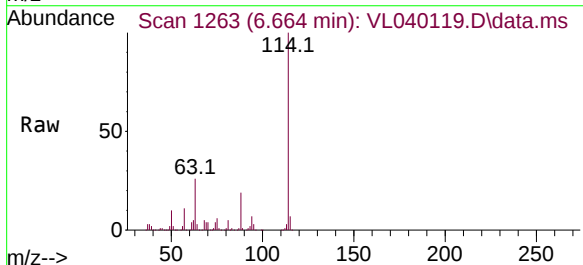
Instrument :
MSVOA_L
ClientSampleId :
VP-4DL2

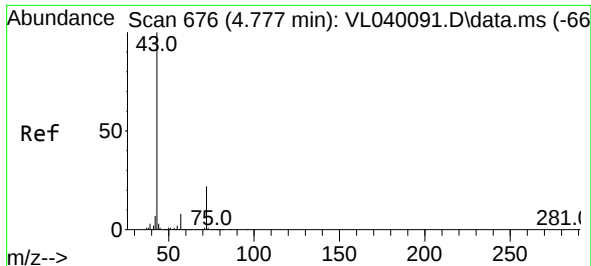
Tgt Ion: 57 Resp: 30523
Ion Ratio Lower Upper
57 100
41 168.0 72.2 108.4#
43 160.5 192.1 288.1#
56 99.3 42.9 64.3#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.664 min Scan# 1263
Delta R.T. 0.013 min
Lab File: VL040119.D
Acq: 19 Jan 2023 18:48

Tgt Ion: 114 Resp: 2727238
Ion Ratio Lower Upper
114 100
63 25.2 21.8 32.8
88 18.6 14.8 22.2

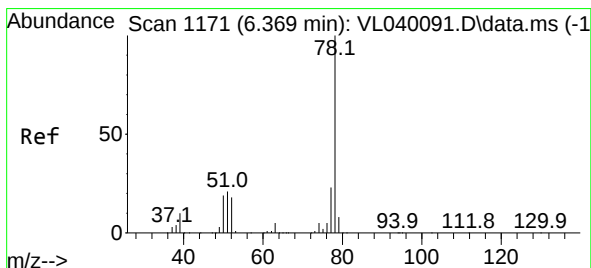
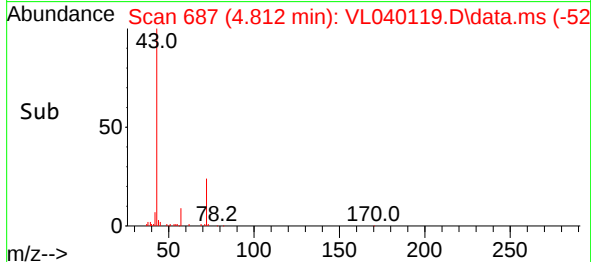
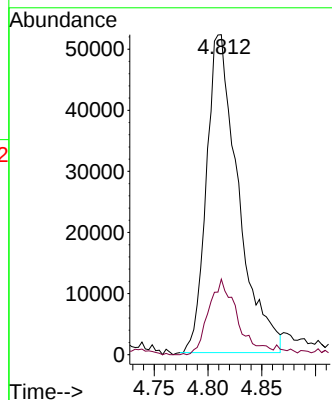
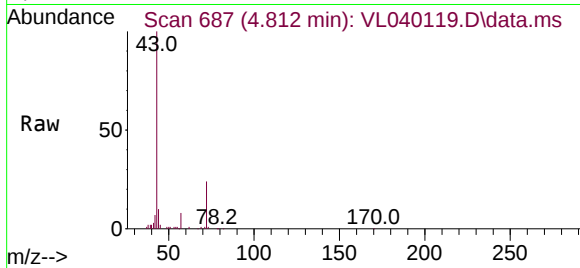




#34
2-Butanone
Concen: 0.833 ppbv
RT: 4.812 min Scan# 61
Delta R.T. 0.035 min
Lab File: VL040119.D
Acq: 19 Jan 2023 18:48

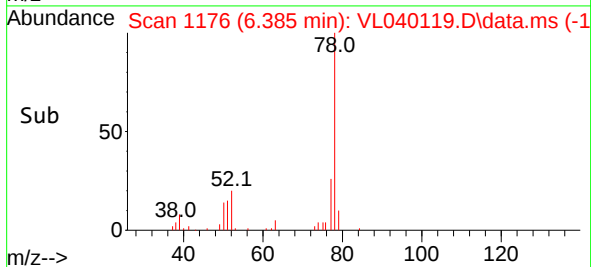
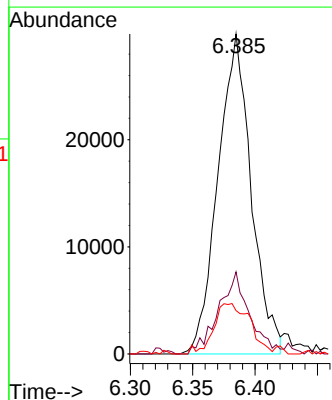
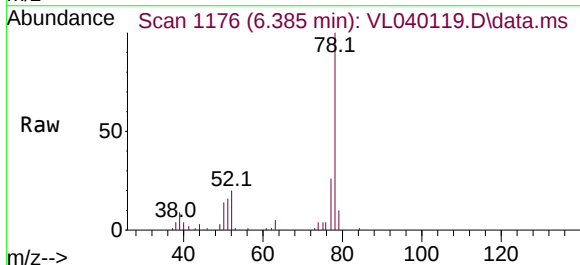
Instrument :
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VP-4DL2

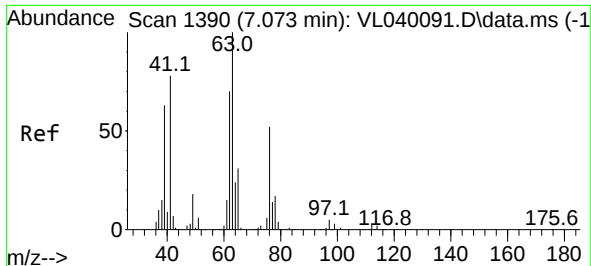
Tgt Ion: 43 Resp: 107438
Ion Ratio Lower Upper
43 100
72 22.5 18.4 27.6



#36
Benzene
Concen: 0.274 ppbv
RT: 6.385 min Scan# 1176
Delta R.T. 0.016 min
Lab File: VL040119.D
Acq: 19 Jan 2023 18:48

Tgt Ion: 78 Resp: 55348
Ion Ratio Lower Upper
78 100
77 25.6 18.1 27.1
50 13.5 15.6 23.4#





#39

1,2-Dichloropropane

Concen: 8.559 ppbv

RT: 6.664 min Scan# 11

Delta R.T. -0.408 min

Lab File: VL040119.D

Acq: 19 Jan 2023 18:48

Instrument :

MSVOA_L

ClientSampleId :

VP-4DL2

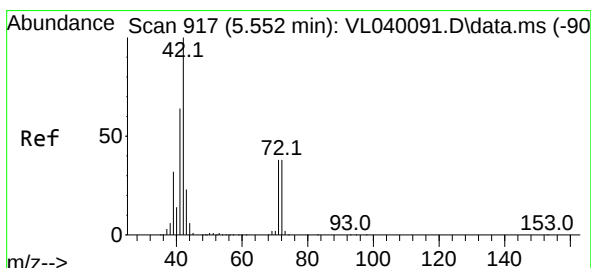
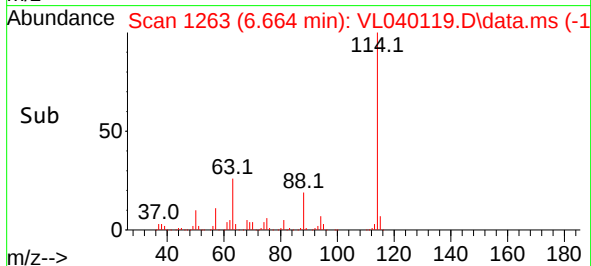
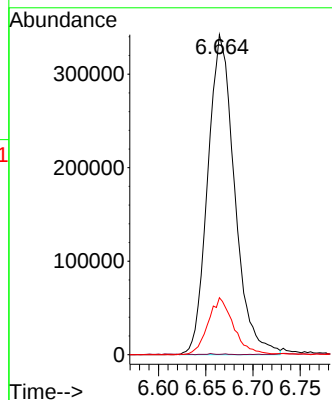
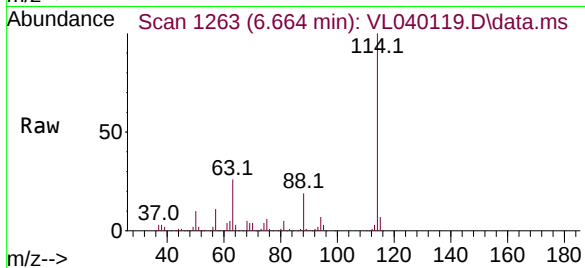
Tgt Ion: 63 Resp: 675634

Ion Ratio Lower Upper

63 100

41 0.0 62.2 93.4#

62 17.6 55.8 83.8#



#41

Tetrahydrofuran

Concen: 0.129 ppbv

RT: 5.603 min Scan# 933

Delta R.T. 0.051 min

Lab File: VL040119.D

Acq: 19 Jan 2023 18:48

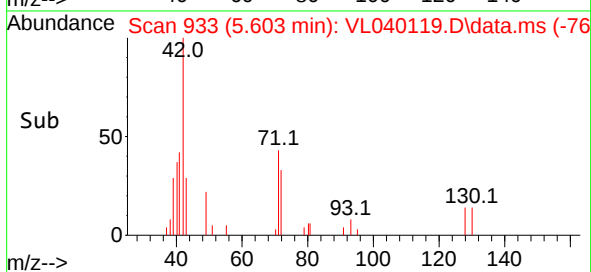
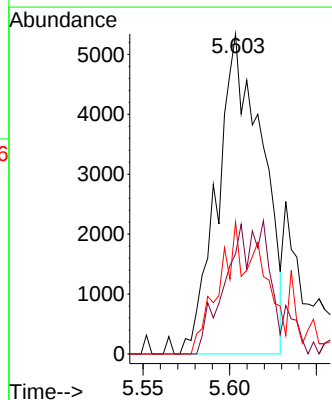
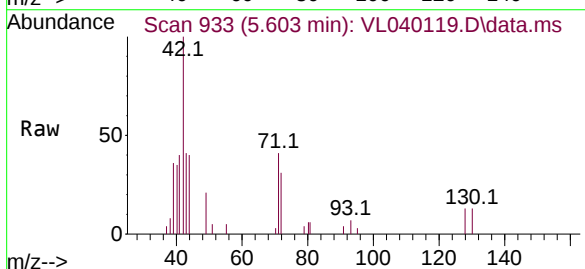
Tgt Ion: 42 Resp: 9605

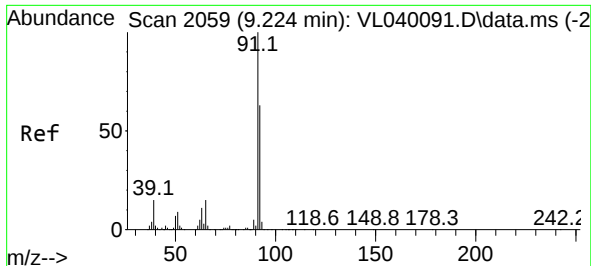
Ion Ratio Lower Upper

42 100

72 0.0 31.9 47.9#

71 47.2 31.4 47.2#

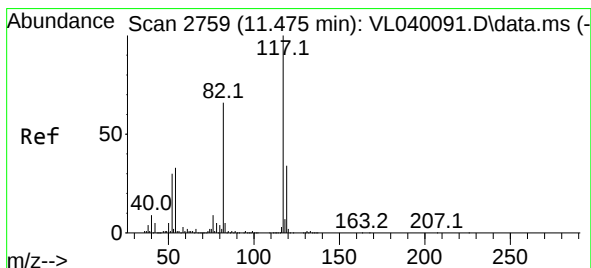
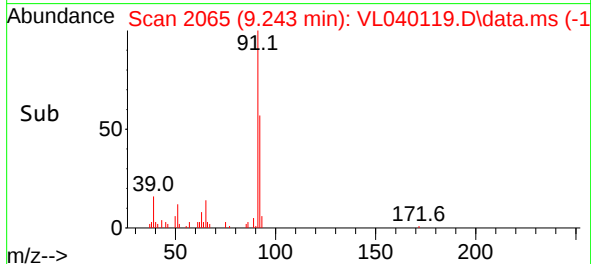
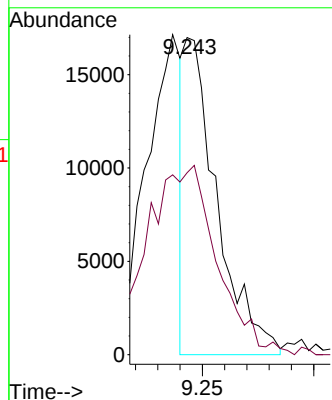
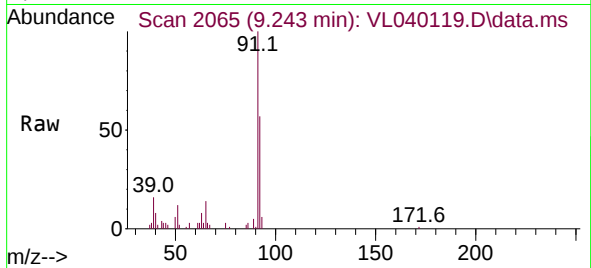




#53
Toluene
Concen: 0.080 ppbv
RT: 9.243 min Scan# 2059
Delta R.T. 0.019 min
Lab File: VL040119.D
Acq: 19 Jan 2023 18:48

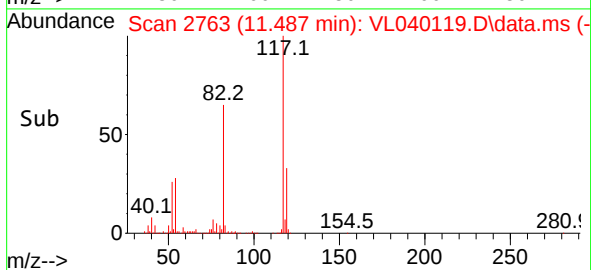
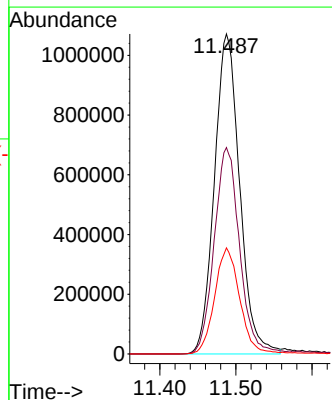
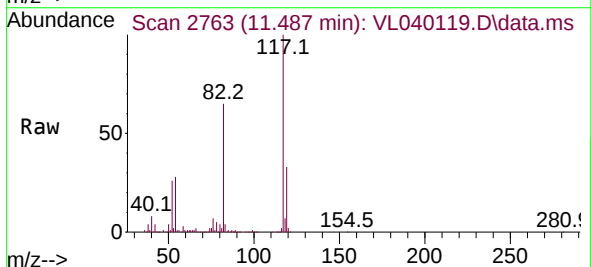
Instrument :
MSVOA_1
ClientSampleId :
VP-4DL2

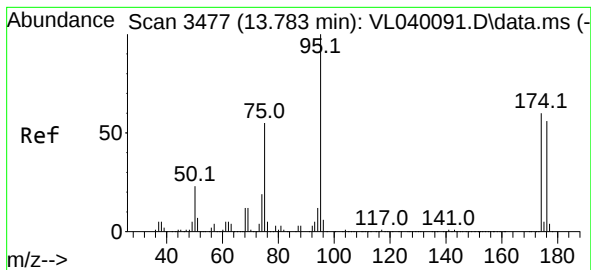
Tgt Ion: 91 Resp: 17236
Ion Ratio Lower Upper
91 100
92 131.9 48.3 72.5#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.487 min Scan# 2763
Delta R.T. 0.013 min
Lab File: VL040119.D
Acq: 19 Jan 2023 18:48

Tgt Ion: 117 Resp: 2469408
Ion Ratio Lower Upper
117 100
82 65.0 54.4 81.6
119 33.2 26.8 40.2





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.492 ppbv
 RT: 13.799 min Scan# 34
 Delta R.T. 0.016 min
 Lab File: VL040119.D
 Acq: 19 Jan 2023 18:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-4DL2

Tgt Ion: 95 Resp: 1948047
 Ion Ratio Lower Upper
 95 100
 174 66.1 47.7 71.5
 175 4.7 3.4 5.2

