

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022823\
 Data File : VL040243.D
 Acq On : 28 Feb 2023 10:37
 Operator : SY/MD
 Sample : 01705-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 02212023-INFLUENT

Quant Time: Mar 01 04:23:50 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Mar 01 04:21:39 2023
 Response via : Initial Calibration

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

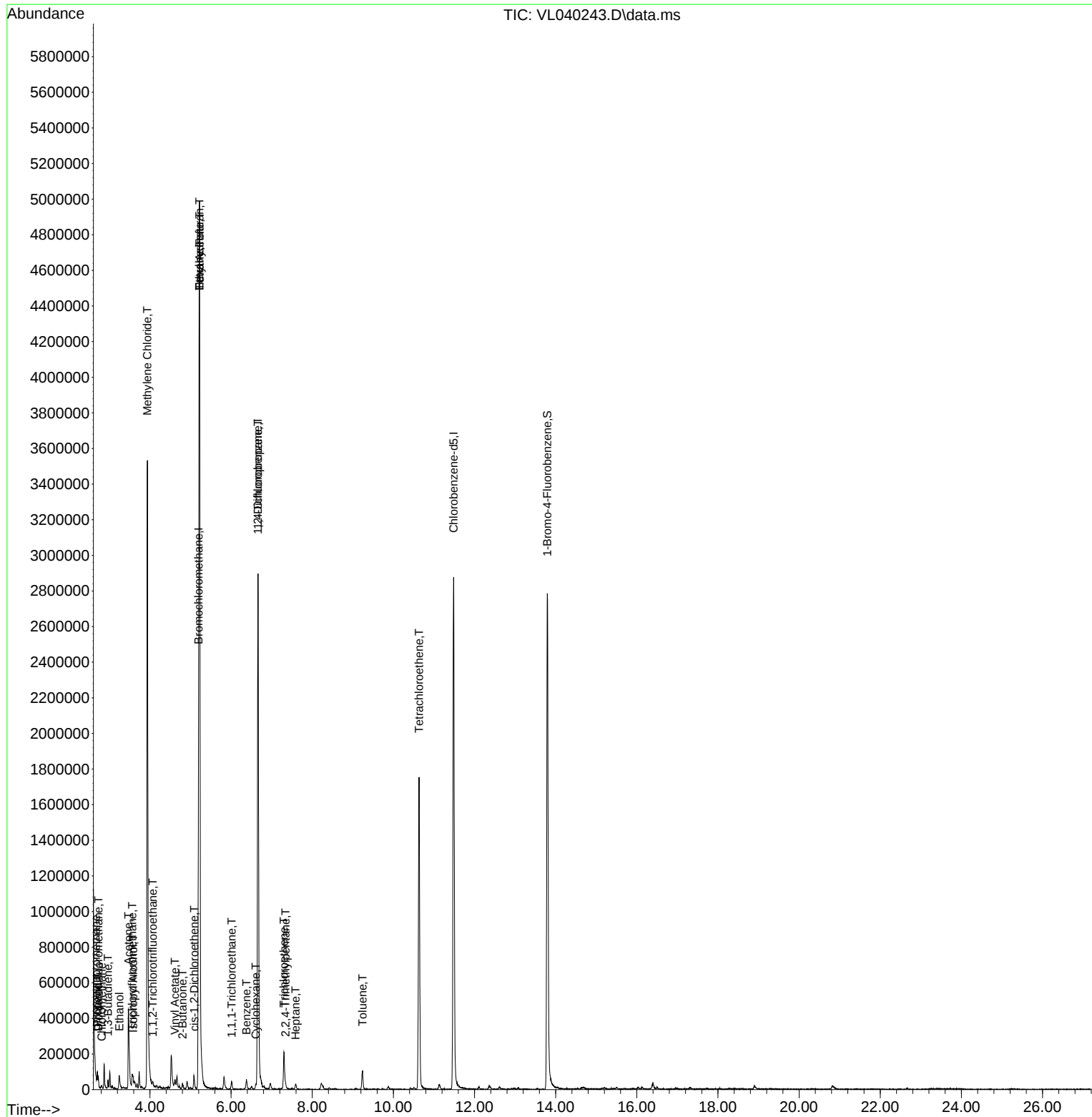
Internal Standards						
1) Bromochloromethane	5.198	49	834869	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.664	114	2099570	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.484	117	1791298	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.793	95	1392477	9.453	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.729	85	38837	0.250	ppbv	97
3) Chlorodifluoromethane	2.671	51	50464	0.506	ppbv #	81
4) Chloromethane	2.816	50	11499	0.184	ppbv	93
9) Propene	2.703	41	20248	0.498	ppbv	93
10) Heptane	7.587	43	4522	0.047	ppbv #	26
11) Trichlorofluoromethane	3.568	101	44526	0.319	ppbv	93
12) 1,1,2-Trichlorotrifluo...	4.070	101	3966	0.039	ppbv #	33
13) Ethanol	3.247	45	82335	22.000	ppbv	88
15) Acetone	3.472	43	499290	4.967	ppbv	99
16) 1,3-Butadiene	2.964	39	12242	0.267	ppbv #	30
19) Isopropyl Alcohol	3.591	45	28726	0.601	ppbv #	62
20) Methylene Chloride	3.938	84	1261511	24.109	ppbv	98
23) Vinyl Acetate	4.619	43	26832	0.880	ppbv #	67
25) Ethyl Acetate	5.221	43	1352593	7.239	ppbv #	76
26) Hexane	5.221	57	1960570	24.442	ppbv #	35
30) Cyclohexane	6.610	84	3949	0.063	ppbv #	5
31) cis-1,2-Dichloroethene	5.089	61	38720	0.508	ppbv	93
32) 1,1,1-Trichloroethane	6.015	97	10544	0.081	ppbv #	3
34) 2-Butanone	4.803	43	26972	0.260	ppbv	92
36) Benzene	6.378	78	35338	0.216	ppbv	94
38) Trichloroethene	7.304	130	36862	0.409	ppbv	96
39) 1,2-Dichloropropane	6.661	63	545139	8.577	ppbv #	26
41) Tetrahydrofuran	5.221	42	724436	12.070	ppbv #	48
44) 2,2,4-Trimethylpentane	7.340	57	8996	0.033	ppbv #	1
52) Tetrachloroethene	10.632	164	388523	7.615	ppbv	98
53) Toluene	9.240	91	72045	0.412	ppbv	100

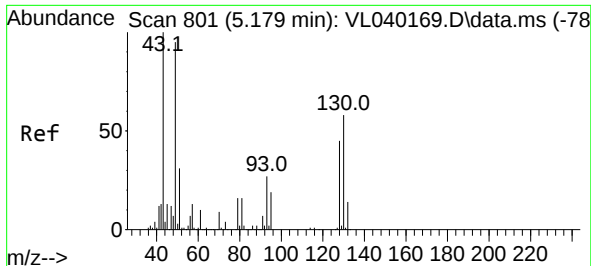
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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02212023-INFLUENT

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Mar 01 04:21:39 2023
Response via : Initial Calibration

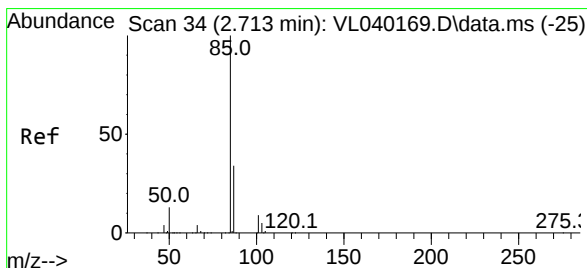
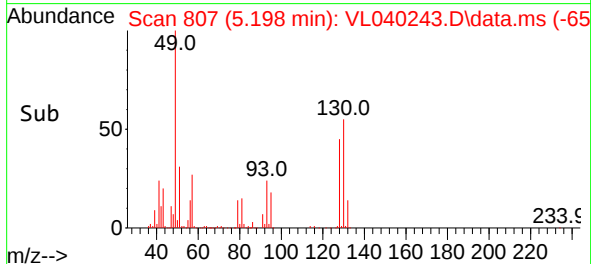
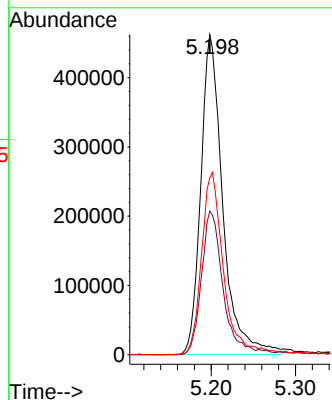
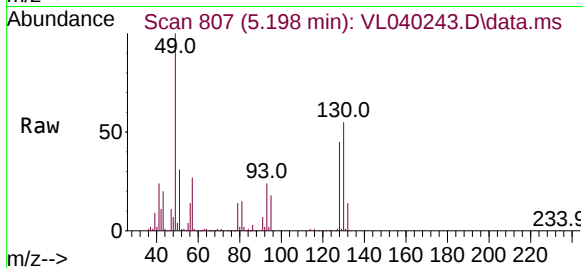




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.198 min Scan# 80
Delta R.T. -0.003 min
Lab File: VL040243.D
Acq: 28 Feb 2023 10:37

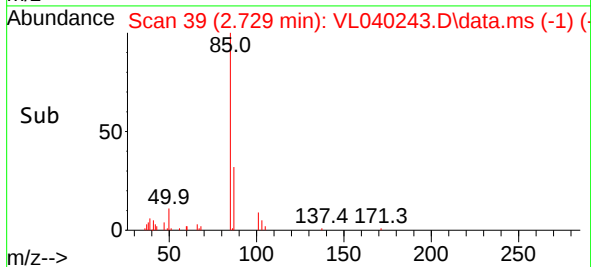
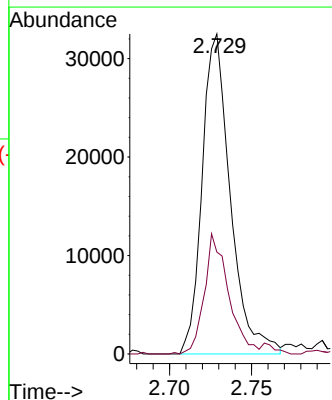
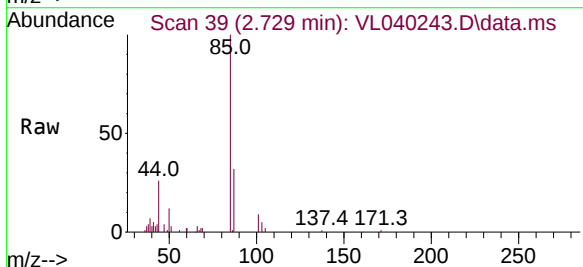
Instrument :
MSVOA_L
ClientSampleId :
02212023-INFLUENT

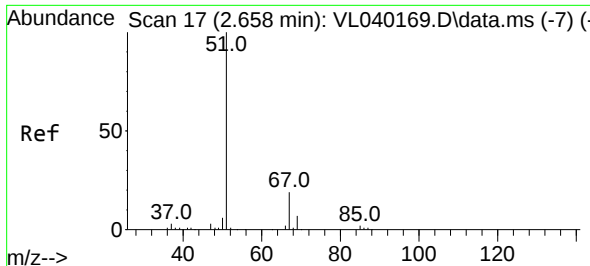
Tgt Ion: 49 Resp: 834869
Ion Ratio Lower Upper
49 100
128 45.8 24.1 72.3
130 58.2 30.9 92.8



#2
Dichlorodifluoromethane
Concen: 0.250 ppbv
RT: 2.729 min Scan# 39
Delta R.T. 0.003 min
Lab File: VL040243.D
Acq: 28 Feb 2023 10:37

Tgt Ion: 85 Resp: 38837
Ion Ratio Lower Upper
85 100
87 31.8 27.0 40.6

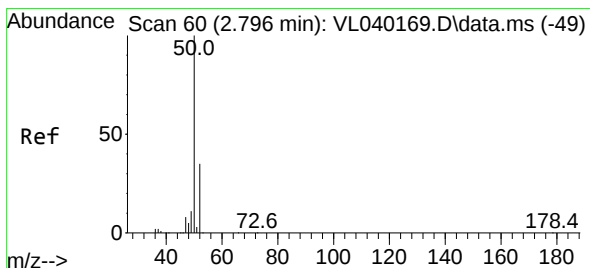
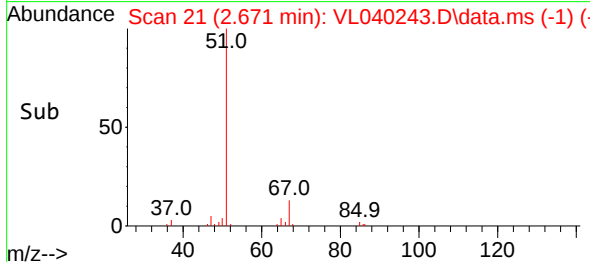
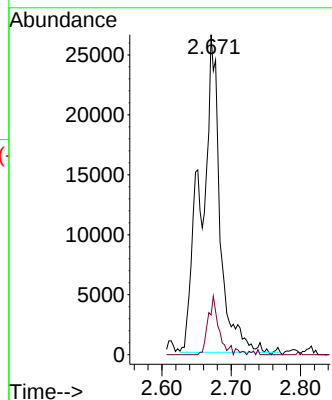
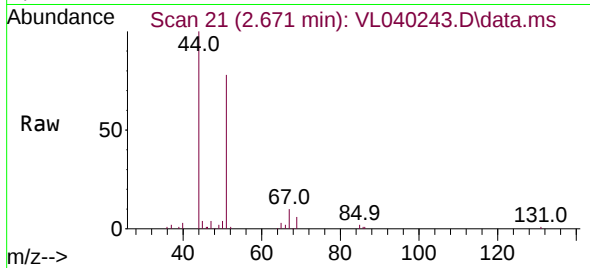




#3
Chlorodifluoromethane
Concen: 0.506 ppbv
RT: 2.671 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL040243.D
Acq: 28 Feb 2023 10:37

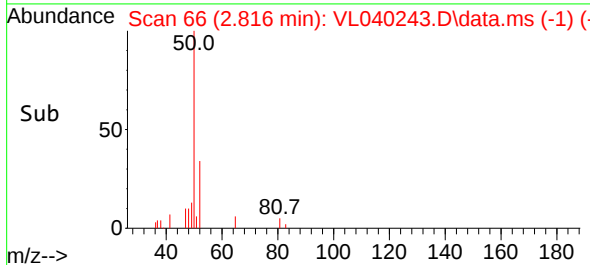
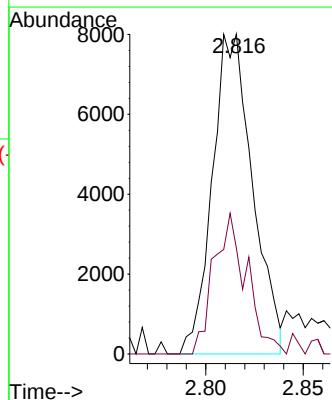
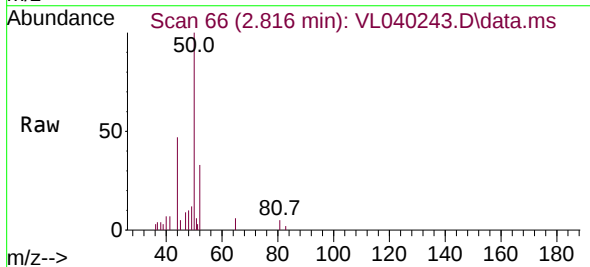
Instrument :
MSVOA_L
ClientSampleId :
02212023-INFLUENT

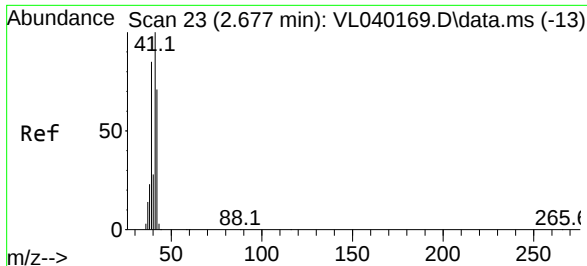
Tgt Ion: 51 Resp: 50464
Ion Ratio Lower Upper
51 100
67 10.8 15.4 23.2#



#4
Chloromethane
Concen: 0.184 ppbv
RT: 2.816 min Scan# 66
Delta R.T. 0.003 min
Lab File: VL040243.D
Acq: 28 Feb 2023 10:37

Tgt Ion: 50 Resp: 11499
Ion Ratio Lower Upper
50 100
52 31.3 28.3 42.5





#9

Propene

Concen: 0.498 ppbv

RT: 2.703 min Scan# 31

Delta R.T. 0.013 min

Lab File: VL040243.D

Acq: 28 Feb 2023 10:37

Instrument :

MSVOA_L

ClientSampleId :

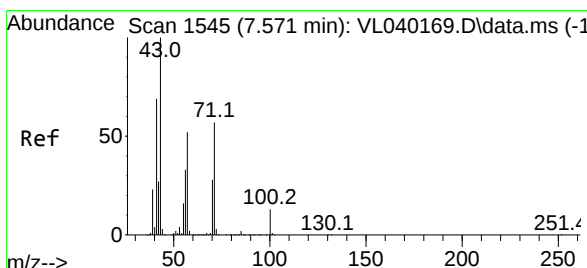
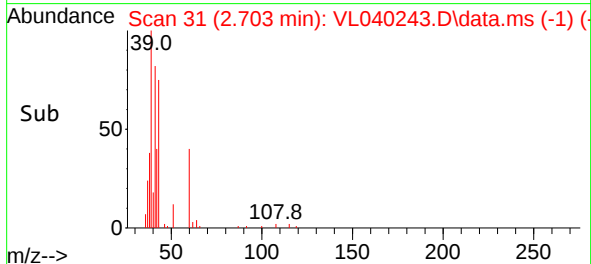
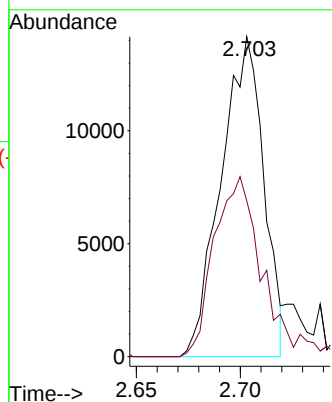
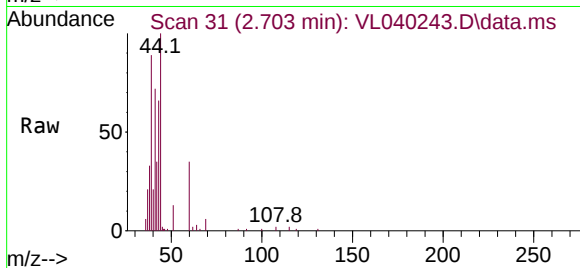
02212023-INFLUENT

Tgt Ion: 41 Resp: 20248

Ion Ratio Lower Upper

41 100

42 65.6 56.9 85.3



#10

Heptane

Concen: 0.047 ppbv

RT: 7.587 min Scan# 1550

Delta R.T. -0.006 min

Lab File: VL040243.D

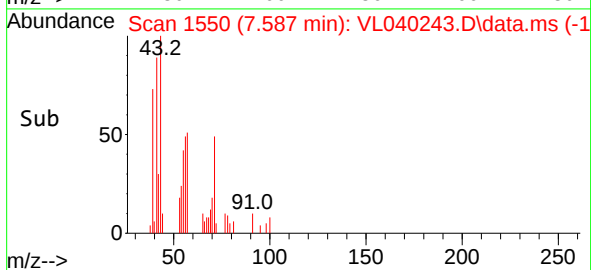
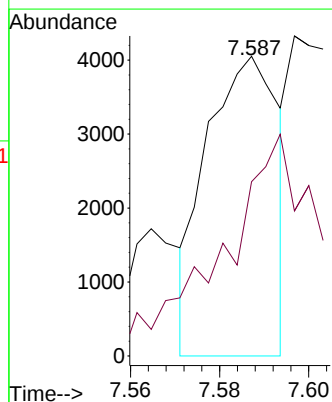
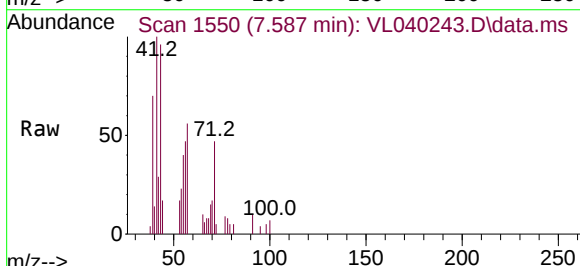
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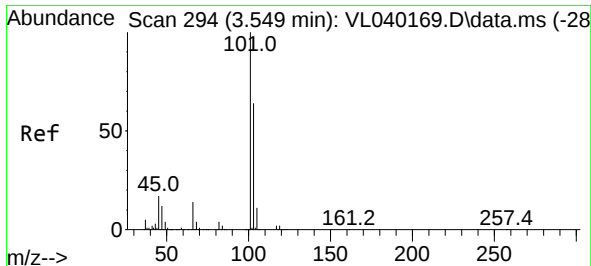
Tgt Ion: 43 Resp: 4522

Ion Ratio Lower Upper

43 100

57 0.0 41.4 62.2#

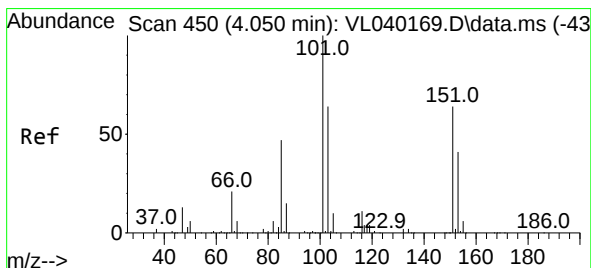
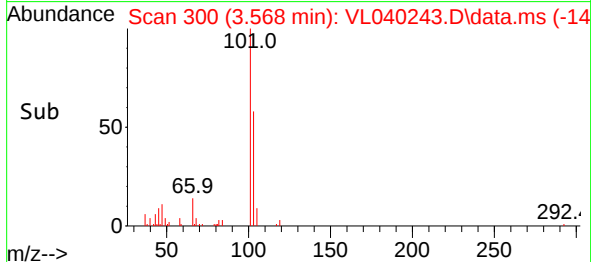
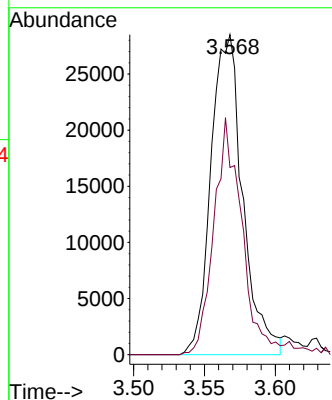
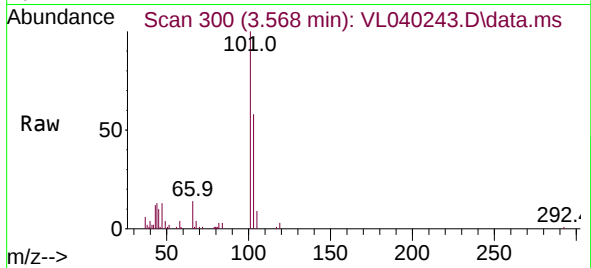




#11
 Trichlorofluoromethane
 Concen: 0.319 ppbv
 RT: 3.568 min Scan# 300
 Delta R.T. 0.003 min
 Lab File: VL040243.D
 Acq: 28 Feb 2023 10:37

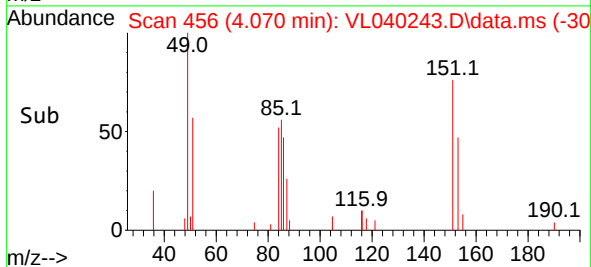
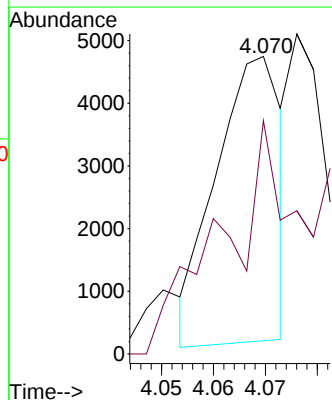
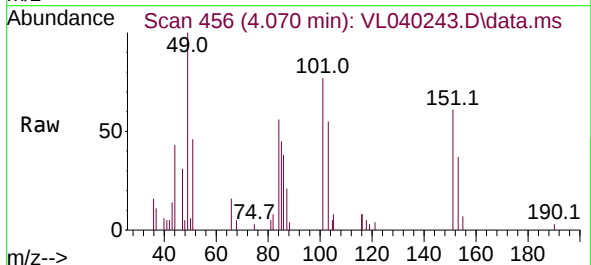
Instrument :
 MSVOA_L
 ClientSampleId :
 02212023-INFLUENT

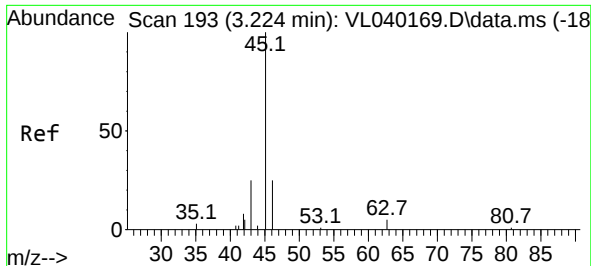
Tgt Ion:101 Resp: 44526
 Ion Ratio Lower Upper
 101 100
 103 58.5 51.0 76.6



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.039 ppbv
 RT: 4.070 min Scan# 456
 Delta R.T. 0.000 min
 Lab File: VL040243.D
 Acq: 28 Feb 2023 10:37

Tgt Ion:101 Resp: 3966
 Ion Ratio Lower Upper
 101 100
 151 123.0 54.7 82.1#

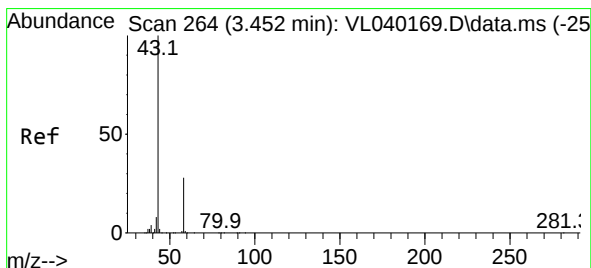
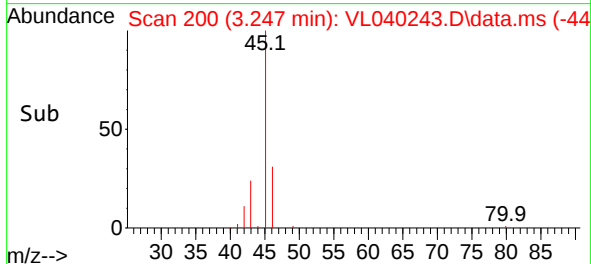
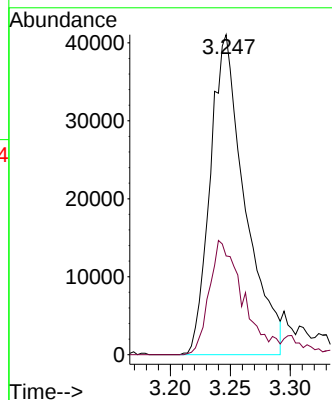
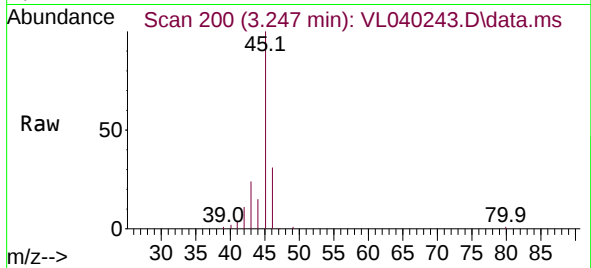




#13
Ethanol
Concen: 22.000 ppbv
RT: 3.247 min Scan# 200
Delta R.T. 0.000 min
Lab File: VL040243.D
Acq: 28 Feb 2023 10:37

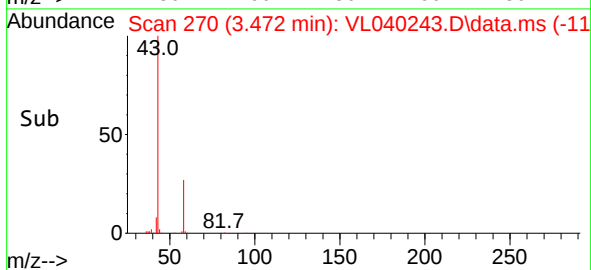
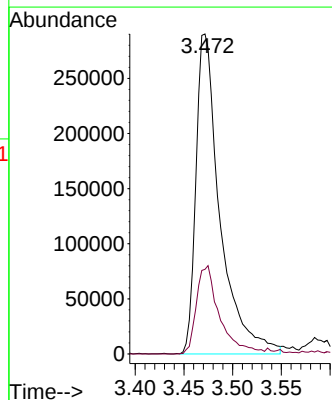
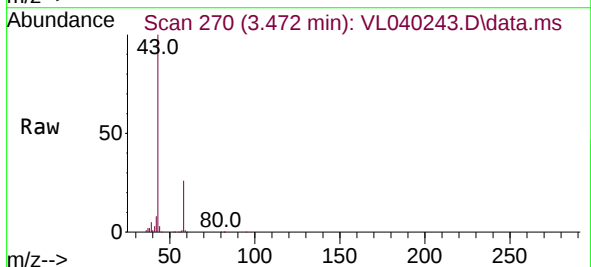
Instrument :
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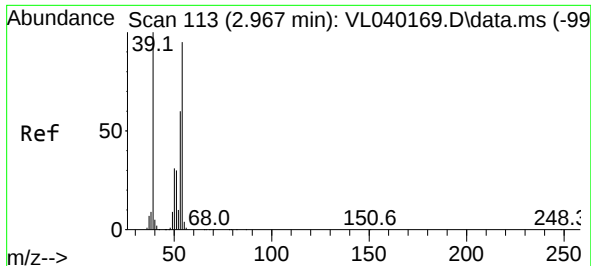
Tgt Ion: 45 Resp: 82335
Ion Ratio Lower Upper
45 100
46 39.8 13.3 53.1



#15
Acetone
Concen: 4.967 ppbv
RT: 3.472 min Scan# 270
Delta R.T. 0.003 min
Lab File: VL040243.D
Acq: 28 Feb 2023 10:37

Tgt Ion: 43 Resp: 499290
Ion Ratio Lower Upper
43 100
58 27.5 22.4 33.6





#16

1,3-Butadiene

Concen: 0.267 ppbv

RT: 2.964 min Scan# 113

Delta R.T. -0.019 min

Lab File: VL040243.D

Acq: 28 Feb 2023 10:37

Instrument :

MSVOA_L

ClientSampleId :

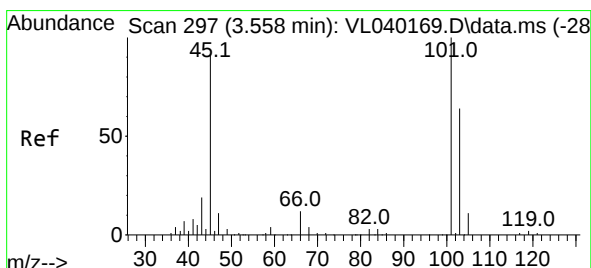
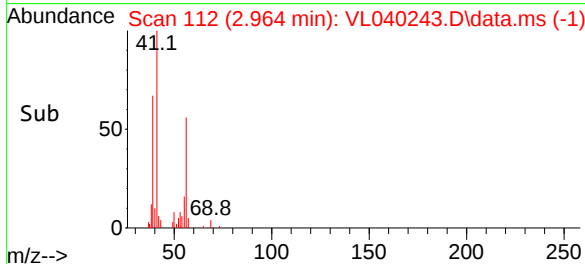
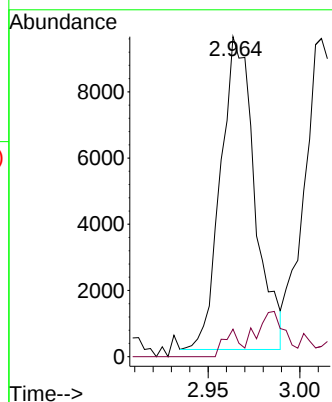
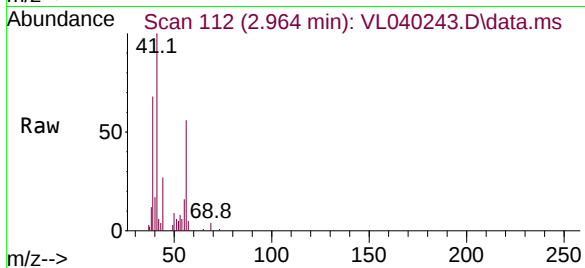
02212023-INFLUENT

Tgt Ion: 39 Resp: 12242

Ion Ratio Lower Upper

39 100

54 20.2 66.7 100.1#



#19

Isopropyl Alcohol

Concen: 0.601 ppbv

RT: 3.591 min Scan# 307

Delta R.T. 0.016 min

Lab File: VL040243.D

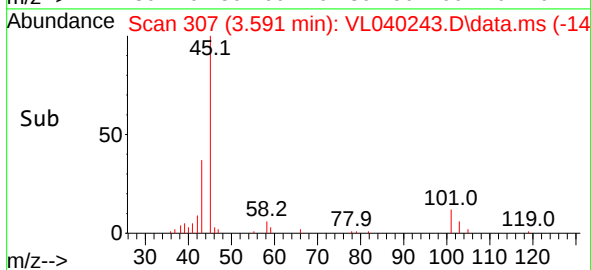
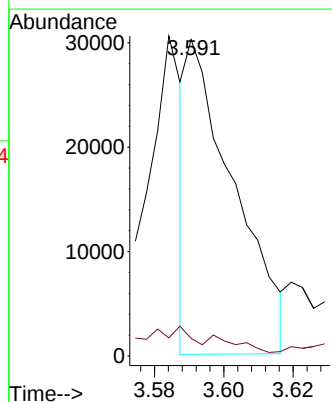
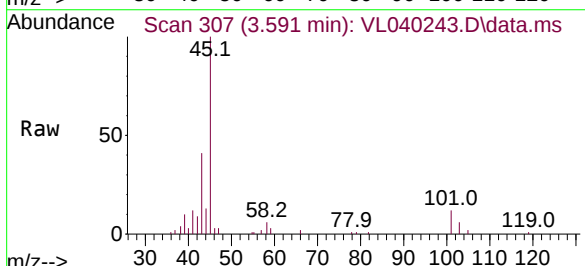
Acq: 28 Feb 2023 10:37

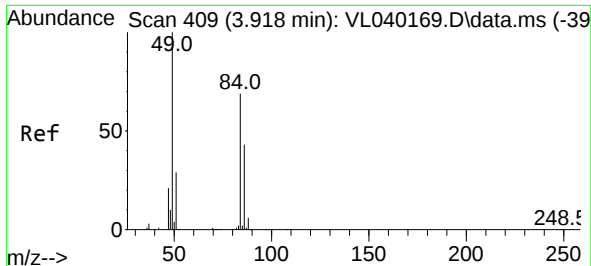
Tgt Ion: 45 Resp: 28726

Ion Ratio Lower Upper

45 100

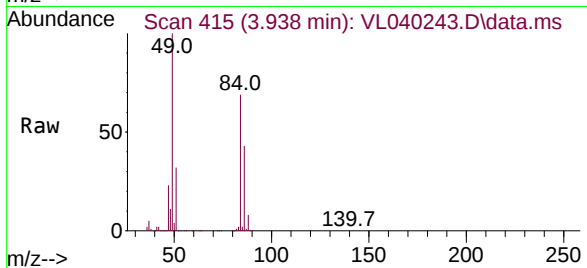
58 15.8 2.6 3.8#





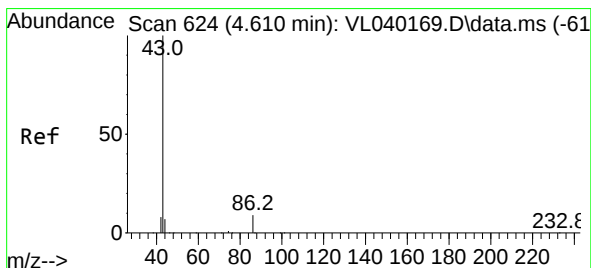
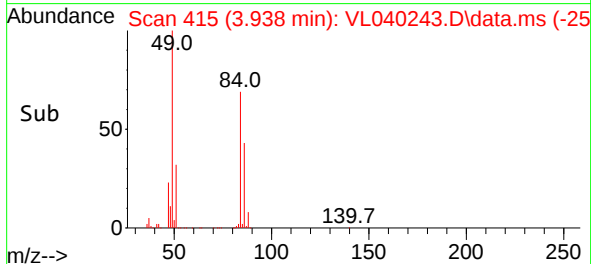
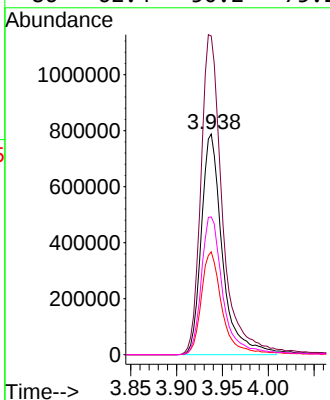
#20
Methylene Chloride
Concen: 24.109 ppbv
RT: 3.938 min Scan# 415
Delta R.T. 0.003 min
Lab File: VL040243.D
Acq: 28 Feb 2023 10:37

Instrument :
MSVOA_L
ClientSampleId :
02212023-INFLUENT



Tgt Ion: 84 Resp: 1261511

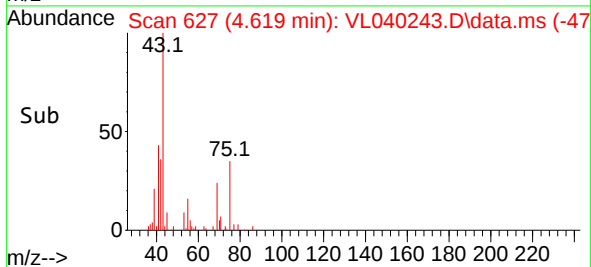
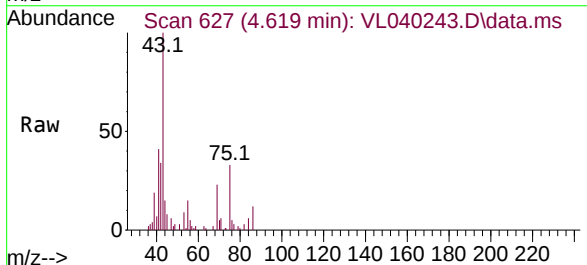
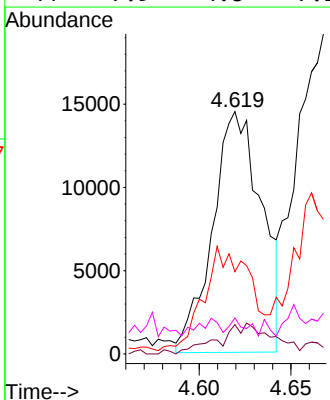
Ion	Ratio	Lower	Upper
84	100		
49	144.5	115.5	173.3
51	46.6	33.1	49.7
86	62.4	50.2	75.2

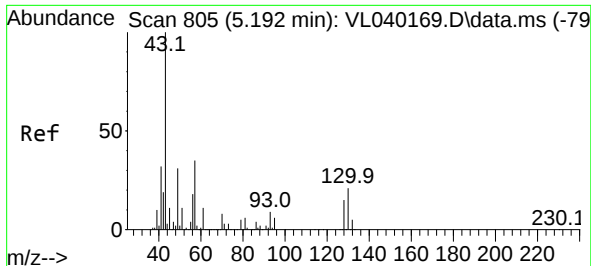


#23
Vinyl Acetate
Concen: 0.880 ppbv
RT: 4.619 min Scan# 627
Delta R.T. -0.013 min
Lab File: VL040243.D
Acq: 28 Feb 2023 10:37

Tgt Ion: 43 Resp: 26832

Ion	Ratio	Lower	Upper
43	100		
86	12.7	5.6	8.4#
42	32.2	7.6	11.4#
44	7.9	4.8	7.2#



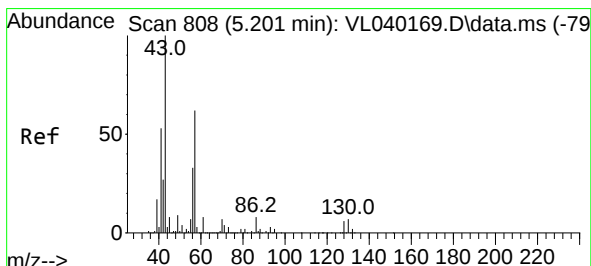
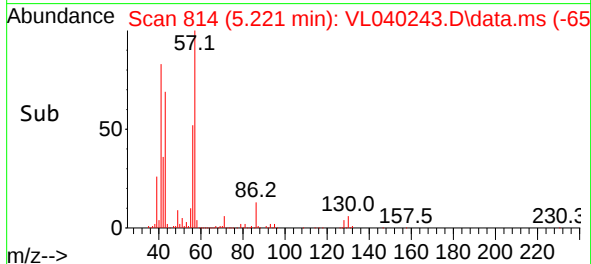
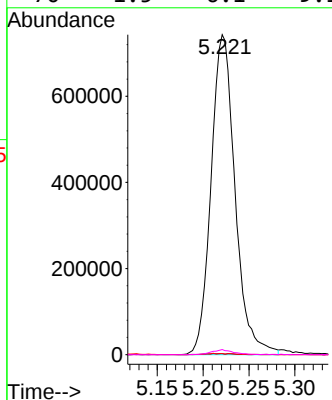
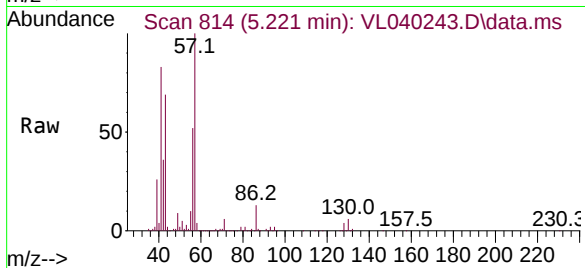


#25
Ethyl Acetate
Concen: 7.239 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.010 min
Lab File: VL040243.D
Acq: 28 Feb 2023 10:37

Instrument :
MSVOA_L
ClientSampleId :
02212023-INFLUENT

Tgt Ion: 43 Resp: 1352593

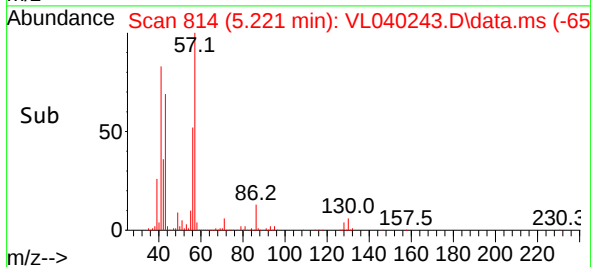
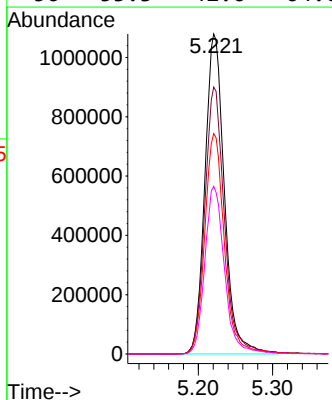
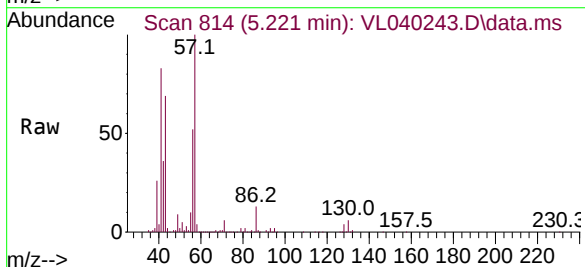
Ion	Ratio	Lower	Upper
43	100		
45	0.4	8.3	12.5#
61	0.4	8.4	12.6#
70	1.5	6.1	9.1#

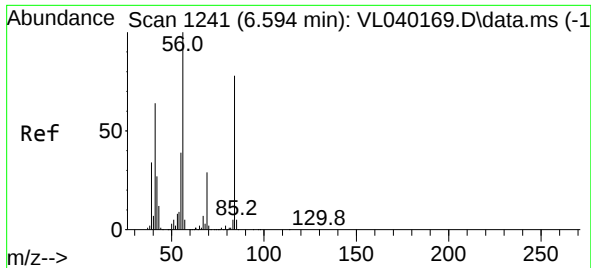


#26
Hexane
Concen: 24.442 ppbv
RT: 5.221 min Scan# 814
Delta R.T. -0.003 min
Lab File: VL040243.D
Acq: 28 Feb 2023 10:37

Tgt Ion: 57 Resp: 1960570

Ion	Ratio	Lower	Upper
57	100		
41	84.9	74.3	111.5
43	70.0	193.0	289.4#
56	53.3	42.6	64.0

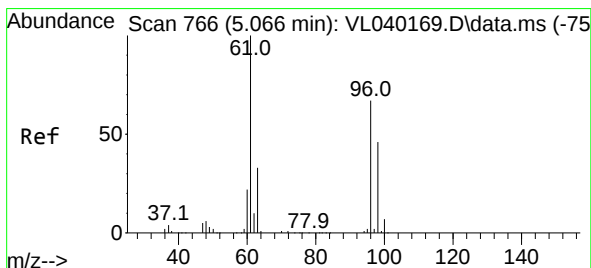
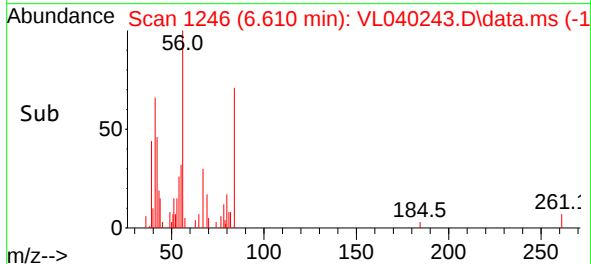
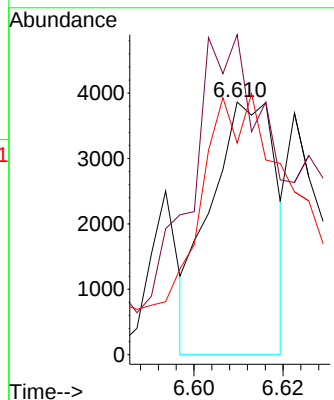
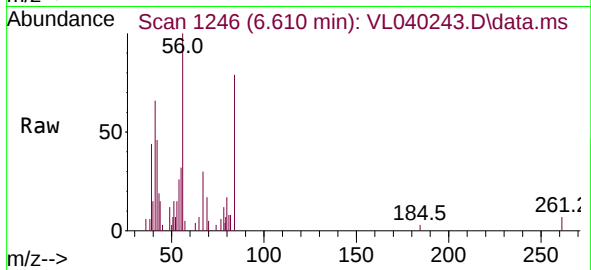




#30
Cyclohexane
Concen: 0.063 ppbv
RT: 6.610 min Scan# 11
Delta R.T. -0.006 min
Lab File: VL040243.D
Acq: 28 Feb 2023 10:37

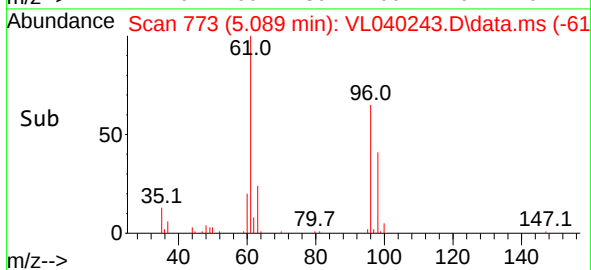
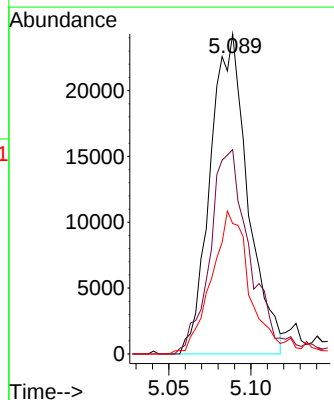
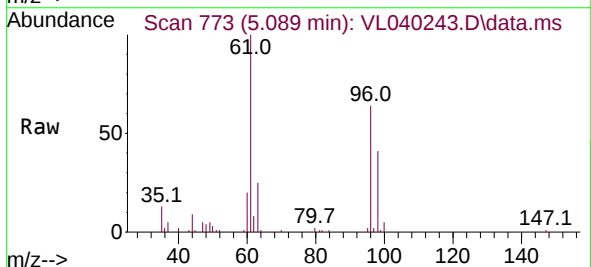
Instrument :
MSVOA_L
ClientSampleId :
02212023-INFLUENT

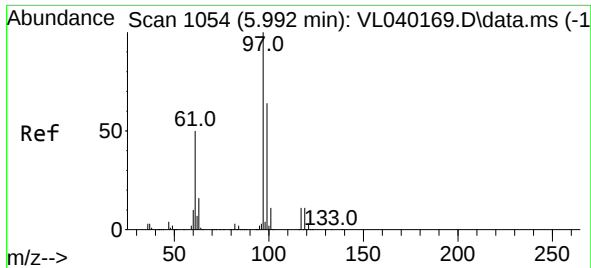
Tgt Ion: 84 Resp: 3949
Ion Ratio Lower Upper
84 100
56 220.3 109.9 164.9#
41 210.3 67.8 101.6#



#31
cis-1,2-Dichloroethene
Concen: 0.508 ppbv
RT: 5.089 min Scan# 773
Delta R.T. 0.003 min
Lab File: VL040243.D
Acq: 28 Feb 2023 10:37

Tgt Ion: 61 Resp: 38720
Ion Ratio Lower Upper
61 100
96 62.1 53.7 80.5
98 39.7 36.4 54.6

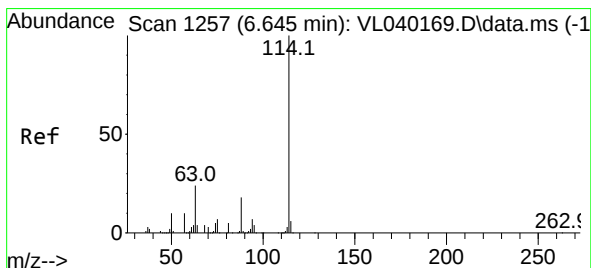
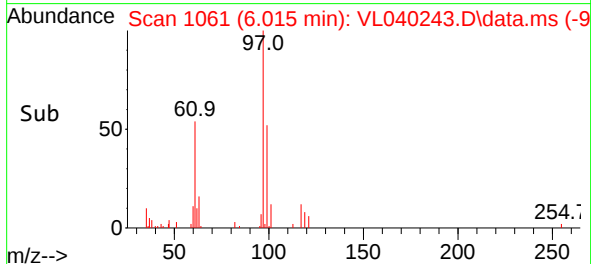
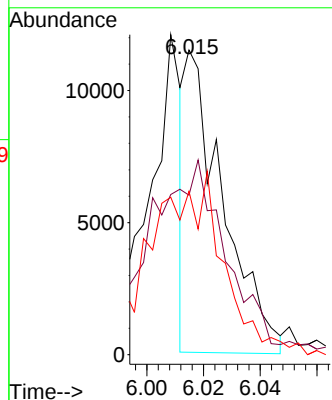
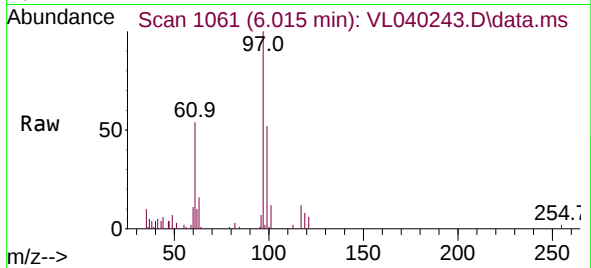




#32
 1,1,1-Trichloroethane
 Concen: 0.081 ppbv
 RT: 6.015 min Scan# 1054
 Delta R.T. 0.000 min
 Lab File: VL040243.D
 Acq: 28 Feb 2023 10:37

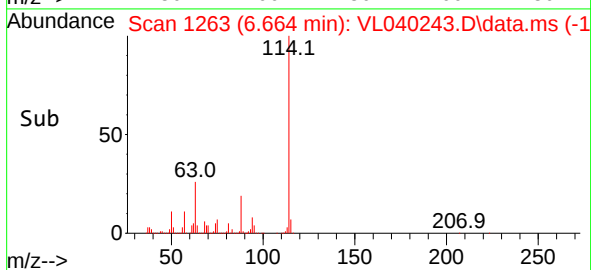
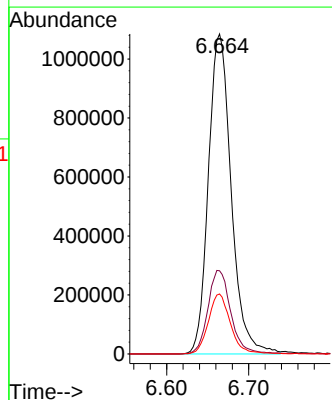
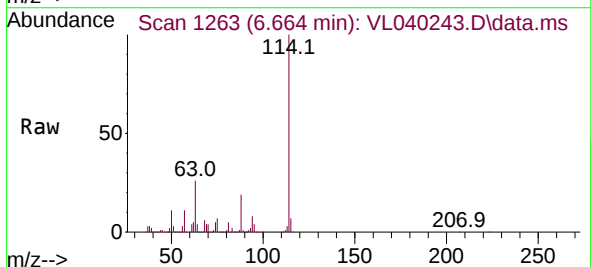
Instrument :
 MSVOA_L
 ClientSampleId :
 02212023-INFLUENT

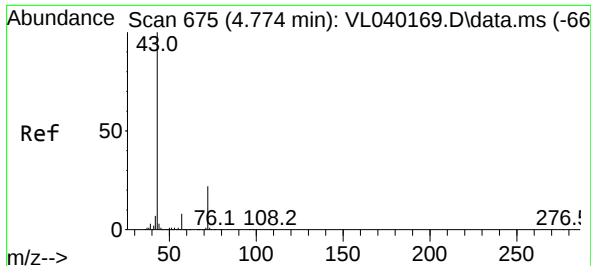
Tgt Ion: 97 Resp: 10544
 Ion Ratio Lower Upper
 97 100
 99 138.3 51.5 77.3#
 61 121.0 40.6 60.8#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 6.664 min Scan# 1263
 Delta R.T. 0.000 min
 Lab File: VL040243.D
 Acq: 28 Feb 2023 10:37

Tgt Ion: 114 Resp: 2099570
 Ion Ratio Lower Upper
 114 100
 63 26.4 20.4 30.6
 88 18.3 14.3 21.5

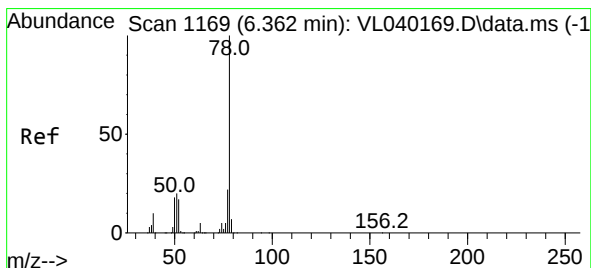
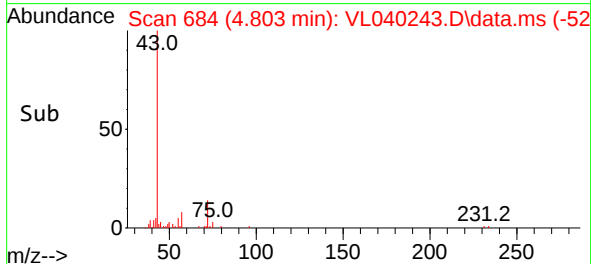
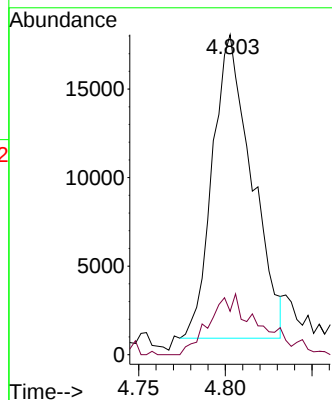
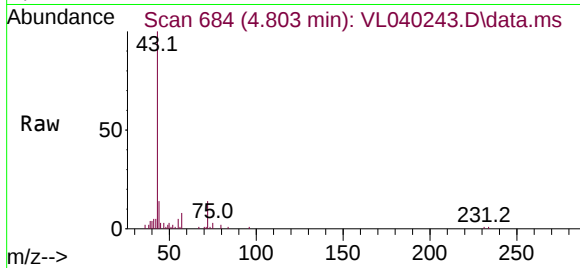




#34
2-Butanone
Concen: 0.260 ppbv
RT: 4.803 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL040243.D
Acq: 28 Feb 2023 10:37

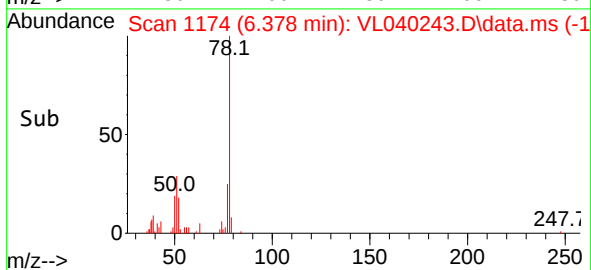
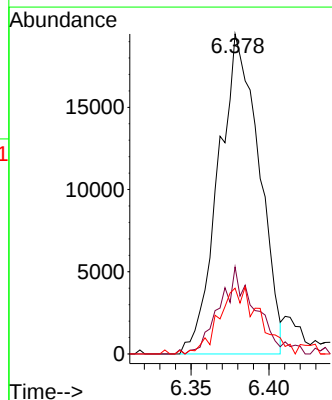
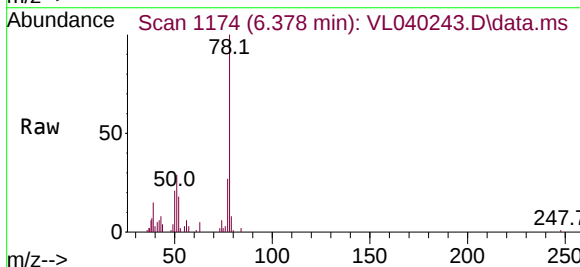
Instrument :
MSVOA_L
ClientSampleId :
02212023-INFLUENT

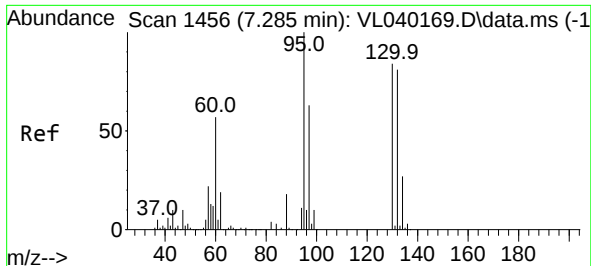
Tgt Ion: 43 Resp: 26972
Ion Ratio Lower Upper
43 100
72 26.4 17.8 26.8



#36
Benzene
Concen: 0.216 ppbv
RT: 6.378 min Scan# 1174
Delta R.T. -0.006 min
Lab File: VL040243.D
Acq: 28 Feb 2023 10:37

Tgt Ion: 78 Resp: 35338
Ion Ratio Lower Upper
78 100
77 25.8 17.5 26.3
50 19.5 14.6 22.0

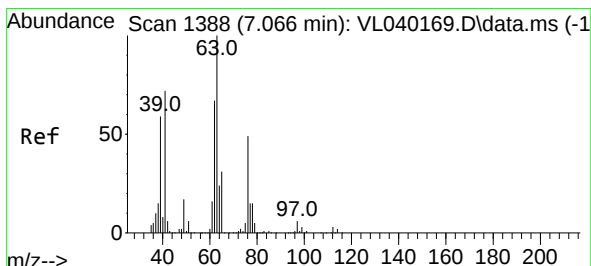
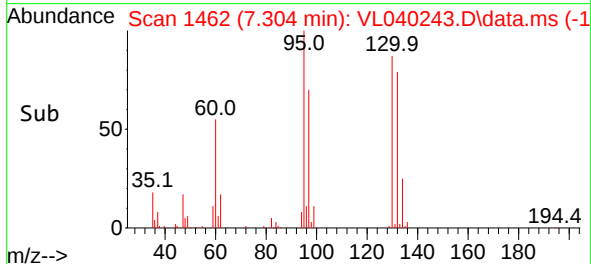
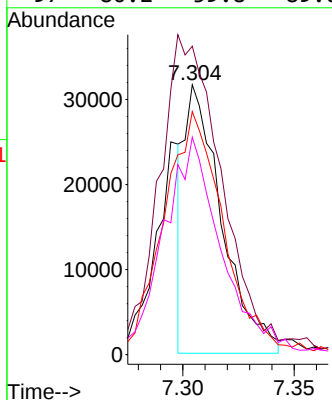
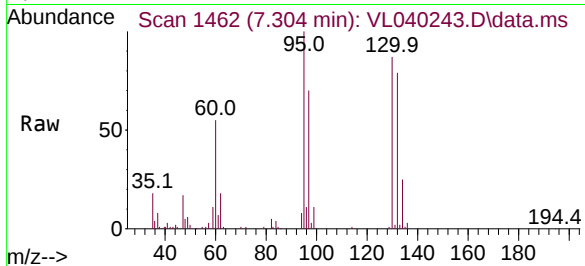




#38
Trichloroethene
Concen: 0.409 ppbv
RT: 7.304 min Scan# 1456
Delta R.T. -0.003 min
Lab File: VL040243.D
Acq: 28 Feb 2023 10:37

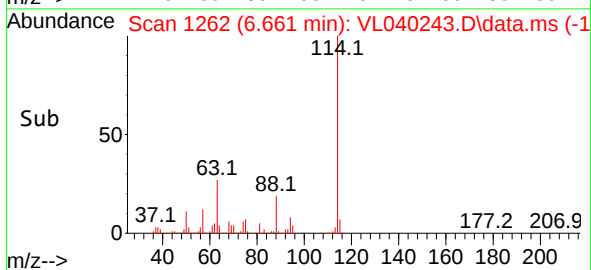
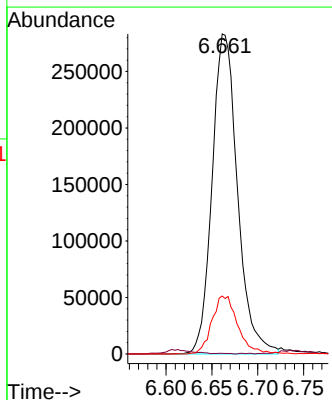
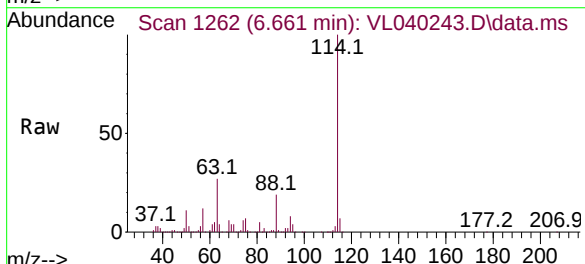
Instrument :
MSVOA_L
ClientSampleId :
02212023-INFLUENT

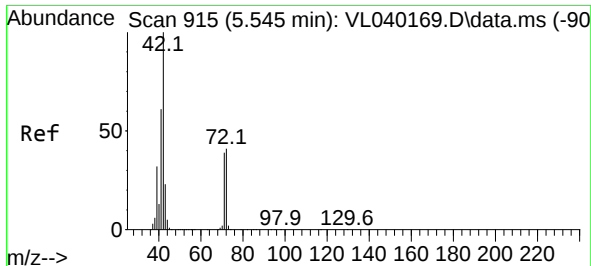
Tgt Ion:	130	Resp:	36862
Ion	Ratio	Lower	Upper
130	100		
95	114.9	94.7	142.1
132	91.1	76.4	114.6
97	80.2	59.8	89.6



#39
1,2-Dichloropropane
Concen: 8.577 ppbv
RT: 6.661 min Scan# 1262
Delta R.T. -0.424 min
Lab File: VL040243.D
Acq: 28 Feb 2023 10:37

Tgt Ion:	63	Resp:	545139
Ion	Ratio	Lower	Upper
63	100		
41	0.0	57.6	86.4#
62	18.0	54.0	81.0#





#41

Tetrahydrofuran

Concen: 12.070 ppbv

RT: 5.221 min Scan# 81

Delta R.T. -0.347 min

Lab File: VL040243.D

Acq: 28 Feb 2023 10:37

Instrument :

MSVOA_L

ClientSampleId :

02212023-INFLUENT

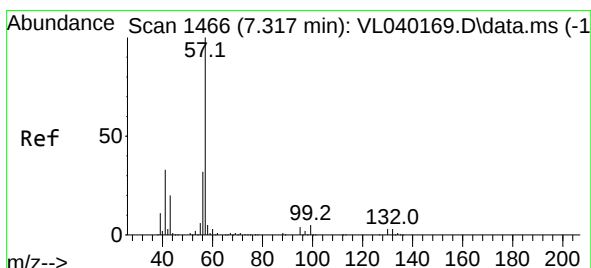
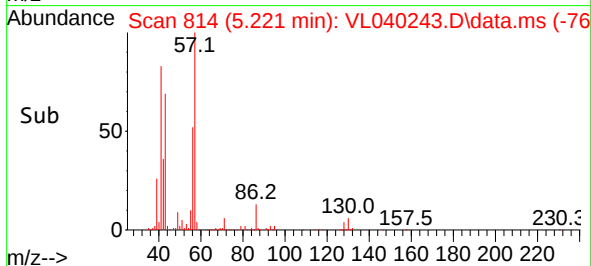
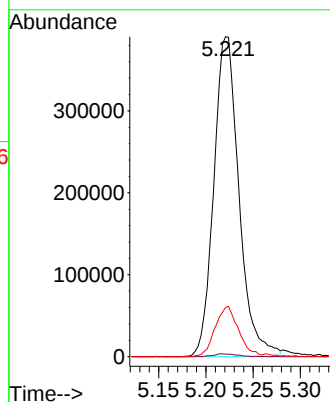
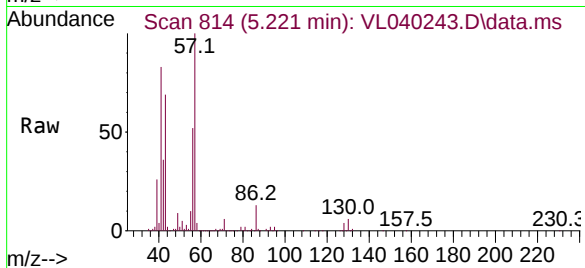
Tgt Ion: 42 Resp: 724436

Ion Ratio Lower Upper

42 100

72 0.9 33.0 49.4#

71 15.2 31.4 47.2#



#44

2,2,4-Trimethylpentane

Concen: 0.033 ppbv

RT: 7.340 min Scan# 1473

Delta R.T. -0.003 min

Lab File: VL040243.D

Acq: 28 Feb 2023 10:37

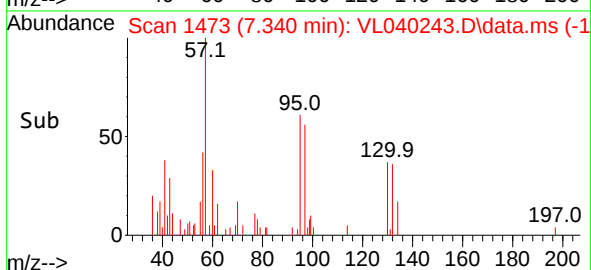
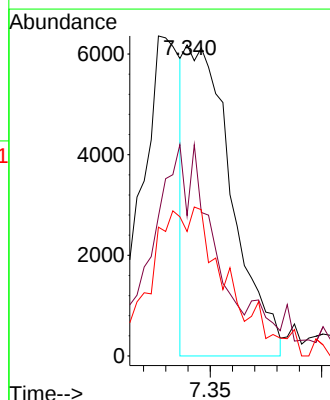
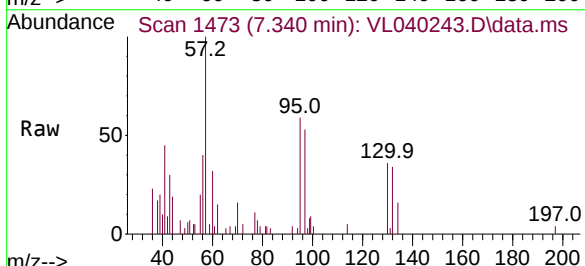
Tgt Ion: 57 Resp: 8996

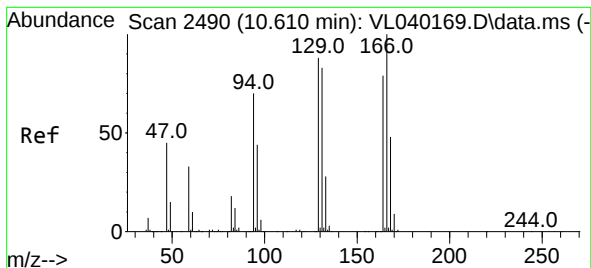
Ion Ratio Lower Upper

57 100

41 102.9 26.2 39.4#

56 87.6 24.9 37.3#





#52

Tetrachloroethene

Concen: 7.615 ppbv

RT: 10.632 min Scan# 2497

Delta R.T. -0.003 min

Lab File: VL040243.D

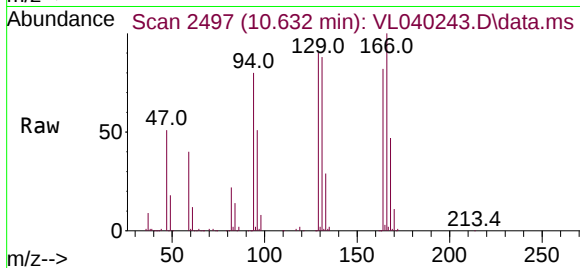
Acq: 28 Feb 2023 10:37

Instrument :

MSVOA_L

ClientSampleId :

02212023-INFLUENT



Tgt Ion:164 Resp: 388523

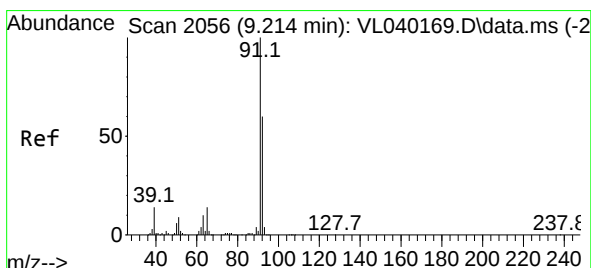
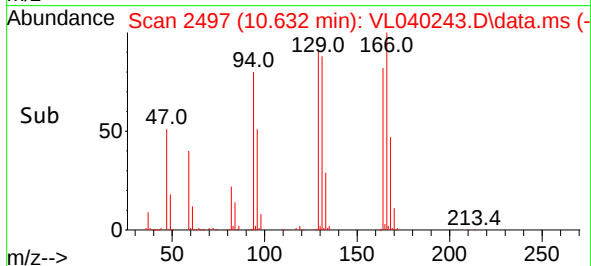
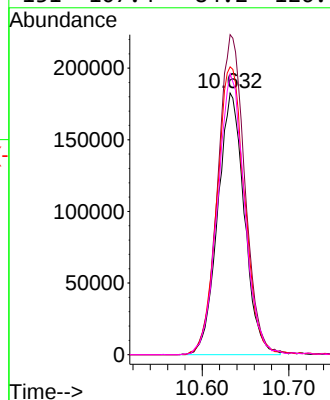
Ion Ratio Lower Upper

164 100

166 122.3 101.5 152.3

129 109.9 89.0 133.4

131 107.4 84.2 126.4



#53

Toluene

Concen: 0.412 ppbv

RT: 9.240 min Scan# 2064

Delta R.T. 0.000 min

Lab File: VL040243.D

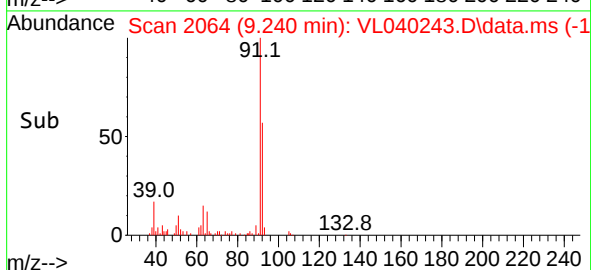
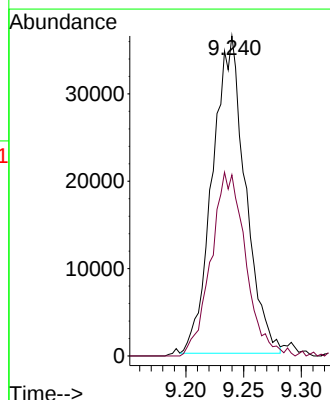
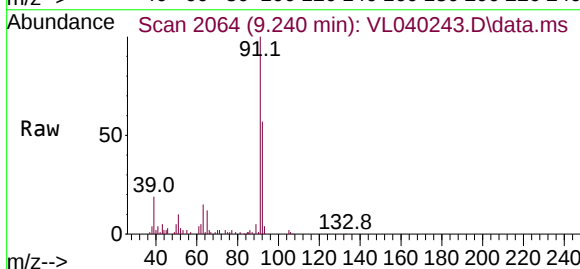
Acq: 28 Feb 2023 10:37

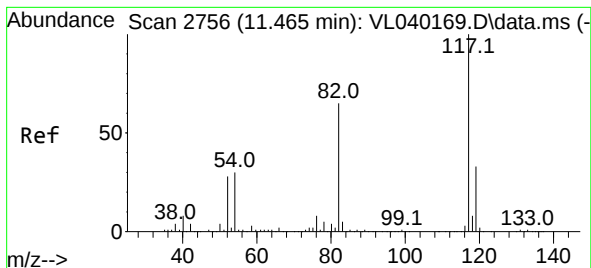
Tgt Ion: 91 Resp: 72045

Ion Ratio Lower Upper

91 100

92 61.2 48.9 73.3

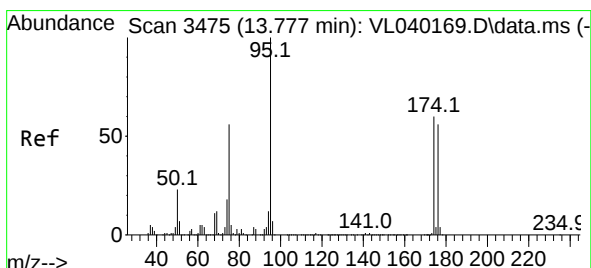
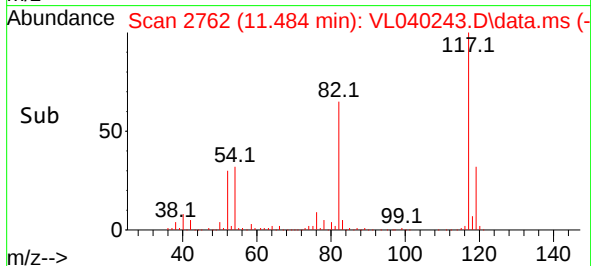
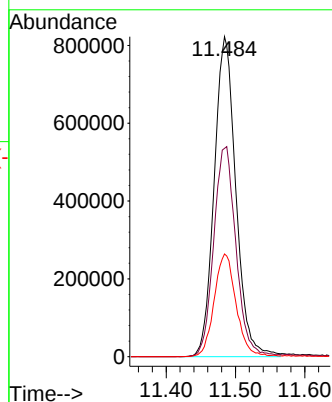
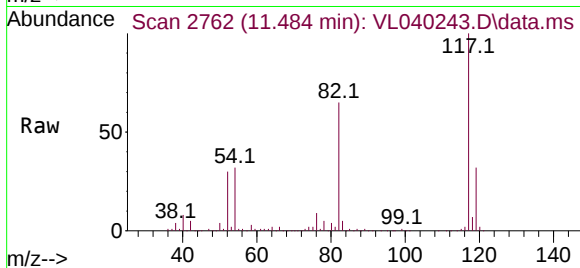




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.484 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL040243.D
Acq: 28 Feb 2023 10:37

Instrument :
MSVOA_L
ClientSampleId :
02212023-INFLUENT

Tgt Ion:117 Resp: 1791298
Ion Ratio Lower Upper
117 100
82 67.4 53.3 79.9
119 32.9 24.6 37.0



#68
1-Bromo-4-Fluorobenzene
Concen: 9.453 ppbv
RT: 13.793 min Scan# 3480
Delta R.T. -0.003 min
Lab File: VL040243.D
Acq: 28 Feb 2023 10:37

Tgt Ion: 95 Resp: 1392477
Ion Ratio Lower Upper
95 100
174 58.4 48.2 72.2
175 4.2 3.4 5.2

