

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022723\
 Data File : VL040238.D
 Acq On : 27 Feb 2023 16:35
 Operator : SY/MD
 Sample : 01705-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 02212023-INFLUENT

Quant Time: Feb 28 00:20:17 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 : Tue Feb 28 00:12:21 2023
 Response via : Initial Calibration

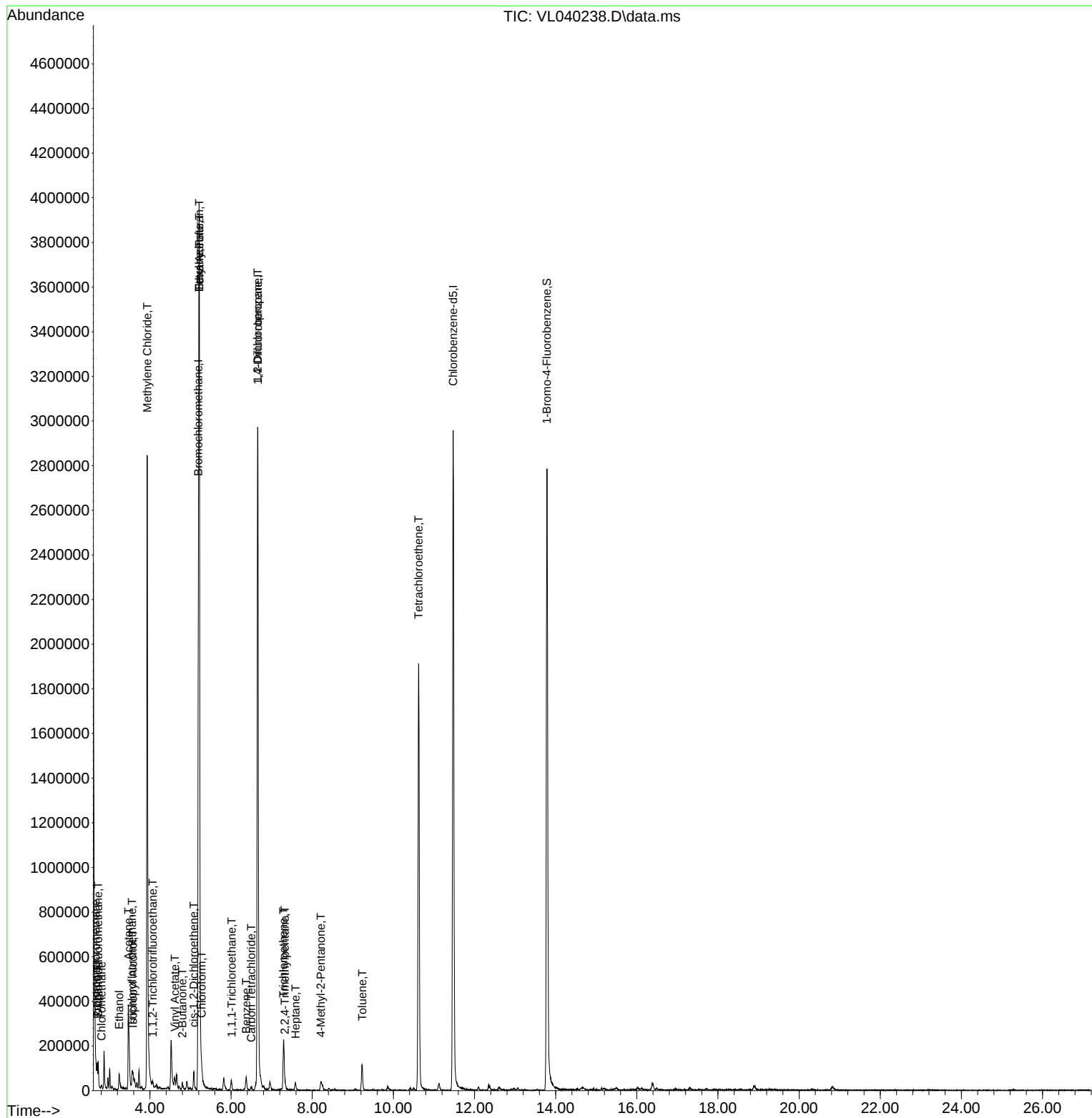
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.195	49	843974	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.658	114	2161505	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.474	117	1837517	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.786	95	1438609	9.521	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.726	85	69553	0.442	ppbv	95
3) Chlorodifluoromethane	2.668	51	55200	0.548	ppbv #	83
4) Chloromethane	2.809	50	10614	0.168	ppbv	95
9) Propene	2.700	41	25610	0.623	ppbv	86
10) Heptane	7.587	43	8270	0.085	ppbv #	71
11) Trichlorofluoromethane	3.562	101	43536	0.308	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.070	101	5247	0.050	ppbv #	45
13) Ethanol	3.240	45	69298	18.316	ppbv	78
15) Acetone	3.468	43	428346	4.216	ppbv	98
19) Isopropyl Alcohol	3.581	45	53180	1.101	ppbv #	64
20) Methylene Chloride	3.935	84	1011994	19.132	ppbv	96
23) Vinyl Acetate	4.613	43	29231	0.948	ppbv #	52
25) Ethyl Acetate	5.214	43	1008682	5.340	ppbv #	76
26) Hexane	5.214	57	1448763	17.866	ppbv #	36
29) Chloroform	5.275	83	18410	0.132	ppbv	87
31) cis-1,2-Dichloroethene	5.082	61	43226	0.561	ppbv #	82
32) 1,1,1-Trichloroethane	6.012	97	9216	0.070	ppbv #	1
34) 2-Butanone	4.800	43	31016	0.291	ppbv	97
35) Carbon Tetrachloride	6.494	117	4049	0.032	ppbv #	68
36) Benzene	6.375	78	40766	0.242	ppbv #	94
38) Trichloroethene	7.291	130	64285	0.694	ppbv	94
39) 1,2-Dichloropropane	6.655	63	553602	8.460	ppbv #	26
41) Tetrahydrofuran	5.214	42	531149	8.596	ppbv #	48
44) 2,2,4-Trimethylpentane	7.327	57	11094	0.040	ppbv #	30
50) 4-Methyl-2-Pentanone	8.211	43	17533	0.106	ppbv #	38
52) Tetrachloroethene	10.622	164	428520	8.158	ppbv	95
53) Toluene	9.233	91	33320	0.185	ppbv #	20

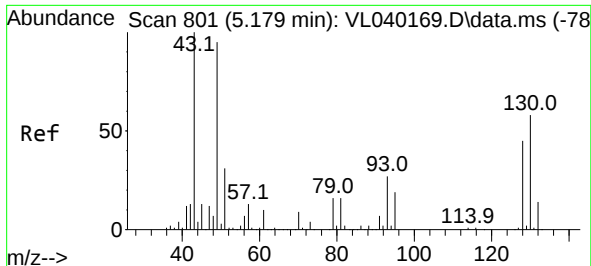
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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02212023-INFLUENT

Quant Time: Feb 28 00:20:17 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 : Tue Feb 28 00:12:21 2023
Response via : Initial Calibration

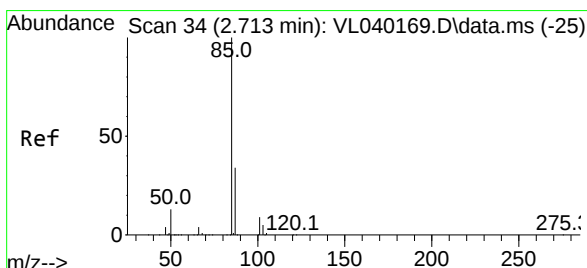
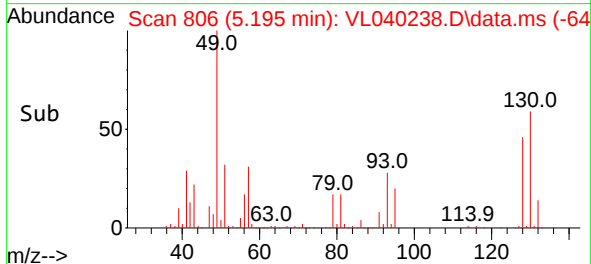
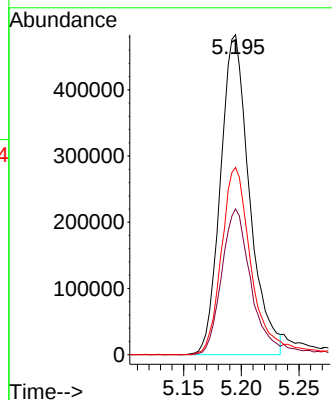
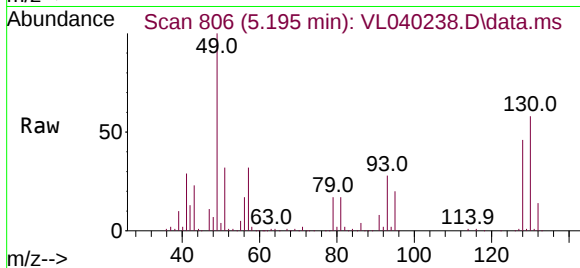




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.195 min Scan# 80
 Delta R.T. 0.013 min
 Lab File: VL040238.D
 Acq: 27 Feb 2023 16:35

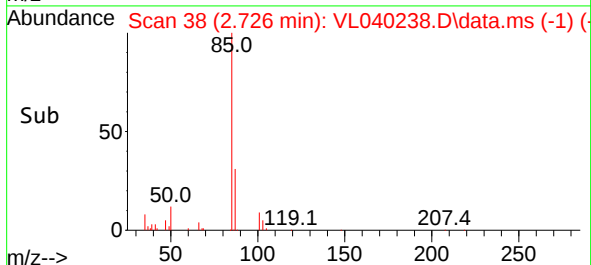
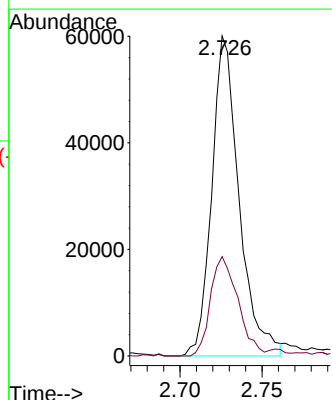
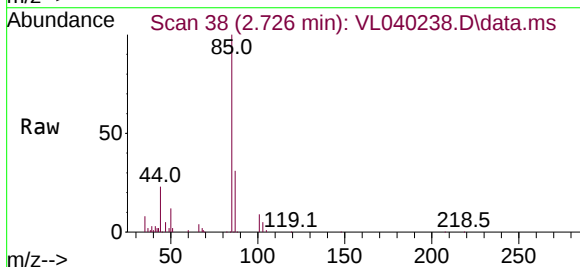
Instrument :
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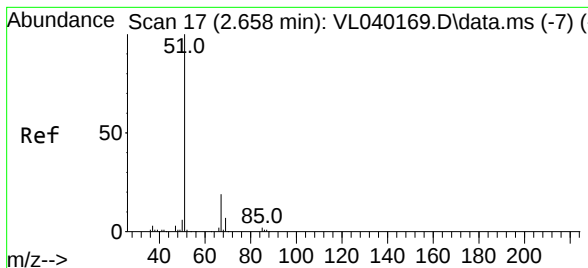
Tgt Ion: 49 Resp: 843974
 Ion Ratio Lower Upper
 49 100
 128 49.0 24.1 72.3
 130 62.8 30.9 92.8



#2
 Dichlorodifluoromethane
 Concen: 0.442 ppbv
 RT: 2.726 min Scan# 38
 Delta R.T. 0.010 min
 Lab File: VL040238.D
 Acq: 27 Feb 2023 16:35

Tgt Ion: 85 Resp: 69553
 Ion Ratio Lower Upper
 85 100
 87 31.0 27.0 40.6





#3

Chlorodifluoromethane

Concen: 0.548 ppbv

RT: 2.668 min Scan# 20

Delta R.T. 0.010 min

Lab File: VL040238.D

Acq: 27 Feb 2023 16:35

Instrument :

MSVOA_L

ClientSampleId :

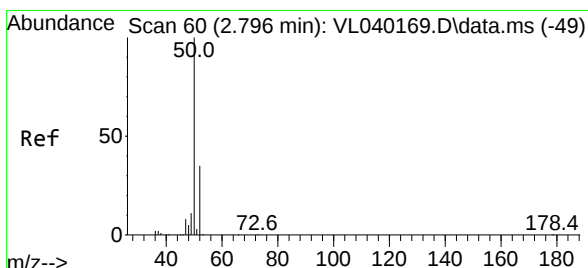
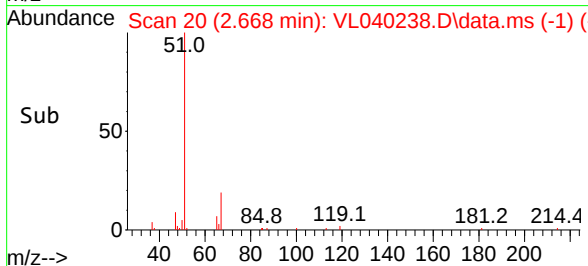
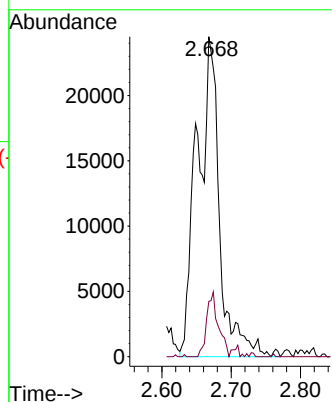
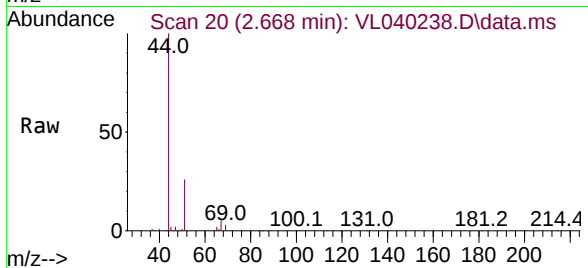
02212023-INFLUENT

Tgt Ion: 51 Resp: 55200

Ion Ratio Lower Upper

51 100

67 11.6 15.4 23.2#



#4

Chloromethane

Concen: 0.168 ppbv

RT: 2.809 min Scan# 64

Delta R.T. 0.013 min

Lab File: VL040238.D

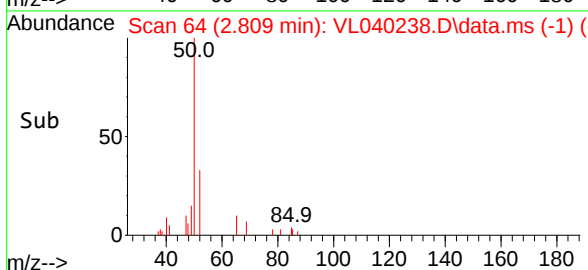
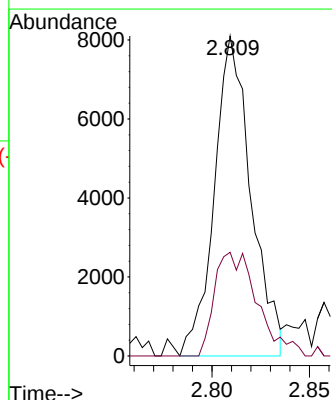
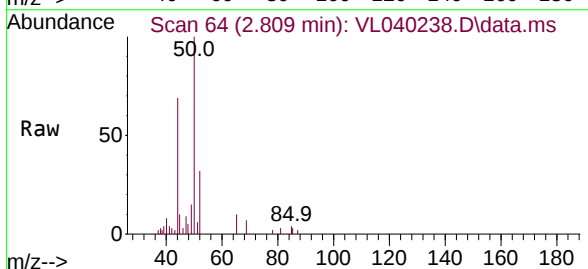
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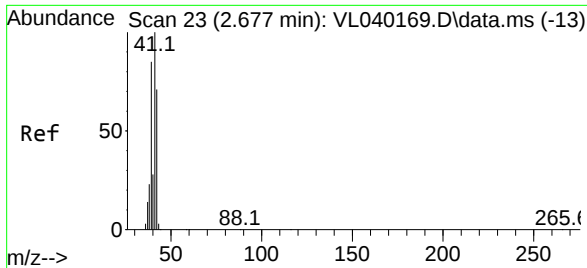
Tgt Ion: 50 Resp: 10614

Ion Ratio Lower Upper

50 100

52 32.4 28.3 42.5

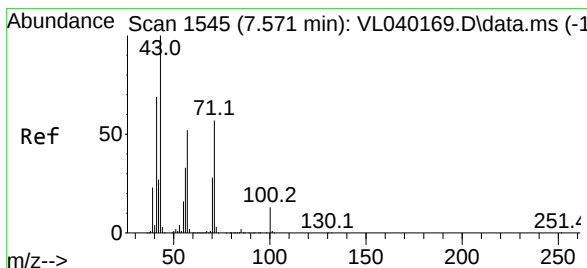
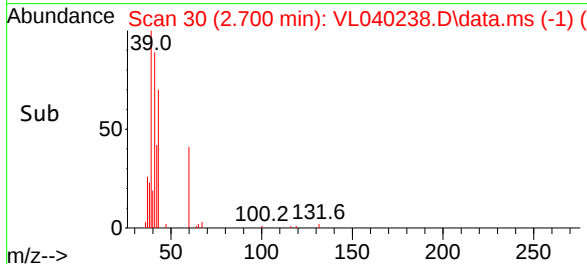
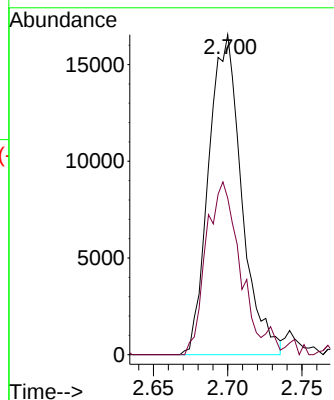
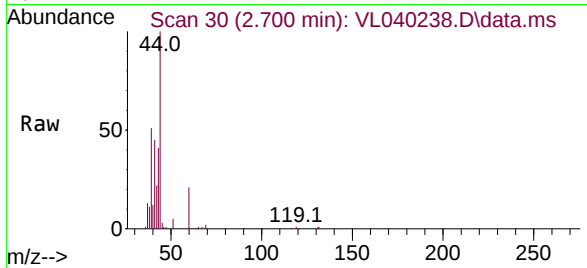




#9
 Propene
 Concen: 0.623 ppbv
 RT: 2.700 min Scan# 30
 Delta R.T. 0.019 min
 Lab File: VL040238.D
 Acq: 27 Feb 2023 16:35

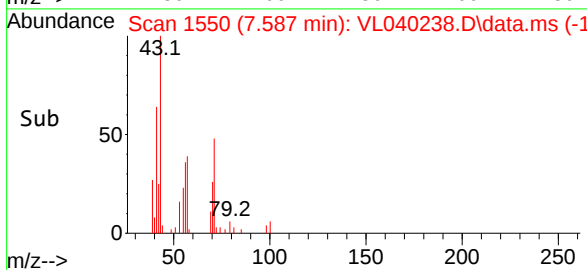
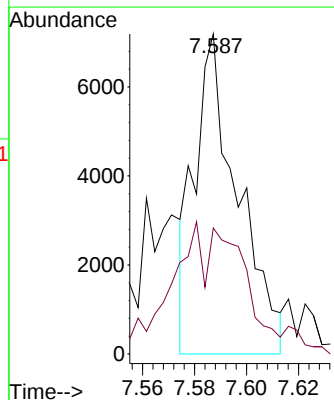
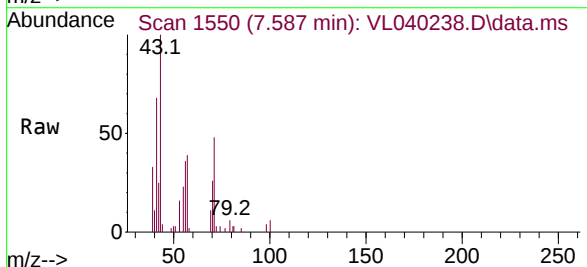
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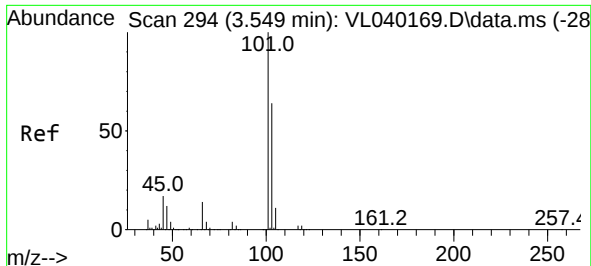
Tgt Ion: 41 Resp: 25610
 Ion Ratio Lower Upper
 41 100
 42 59.7 56.9 85.3



#10
 Heptane
 Concen: 0.085 ppbv
 RT: 7.587 min Scan# 1550
 Delta R.T. 0.010 min
 Lab File: VL040238.D
 Acq: 27 Feb 2023 16:35

Tgt Ion: 43 Resp: 8270
 Ion Ratio Lower Upper
 43 100
 57 72.2 41.4 62.2#

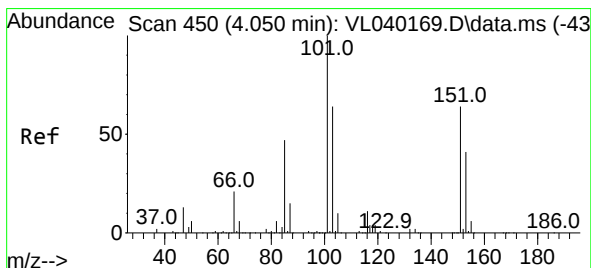
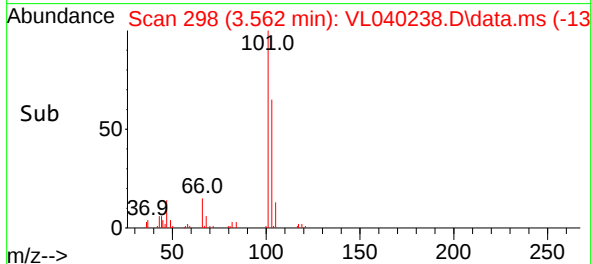
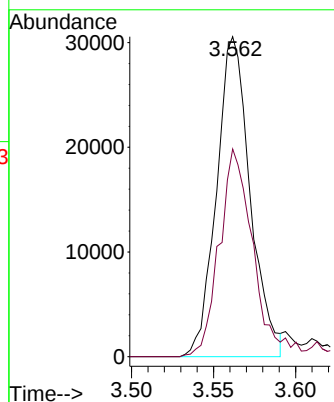
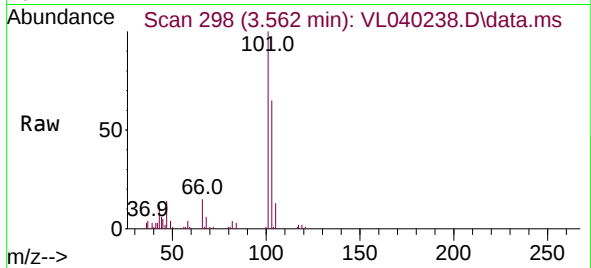




#11
 Trichlorofluoromethane
 Concen: 0.308 ppbv
 RT: 3.562 min Scan# 294
 Delta R.T. 0.013 min
 Lab File: VL040238.D
 Acq: 27 Feb 2023 16:35

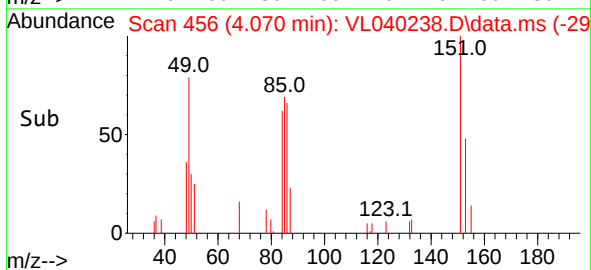
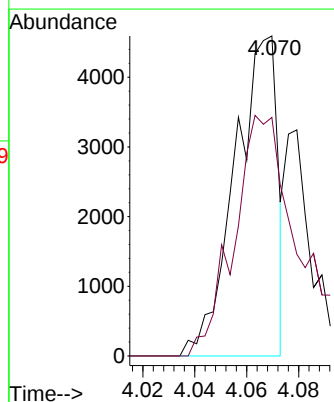
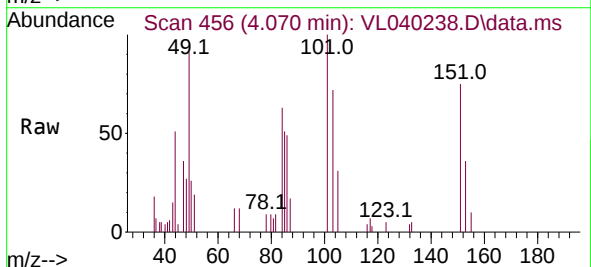
Instrument :
 MSVOA_L
 ClientSampleId :
 02212023-INFLUENT

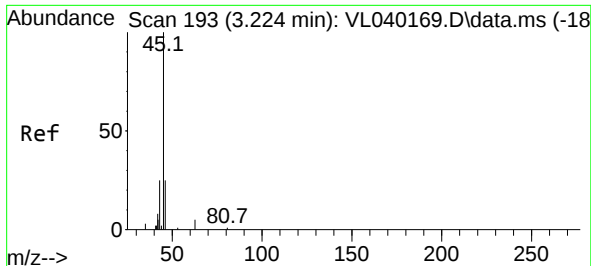
Tgt Ion:101 Resp: 43536
 Ion Ratio Lower Upper
 101 100
 103 64.9 51.0 76.6



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.050 ppbv
 RT: 4.070 min Scan# 456
 Delta R.T. 0.013 min
 Lab File: VL040238.D
 Acq: 27 Feb 2023 16:35

Tgt Ion:101 Resp: 5247
 Ion Ratio Lower Upper
 101 100
 151 112.8 54.7 82.1#

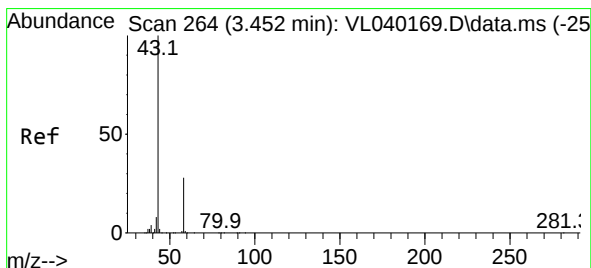
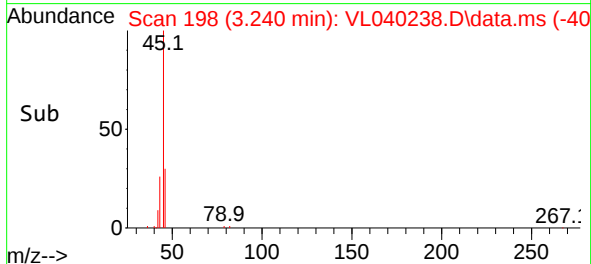
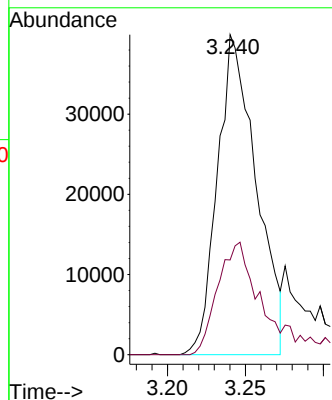
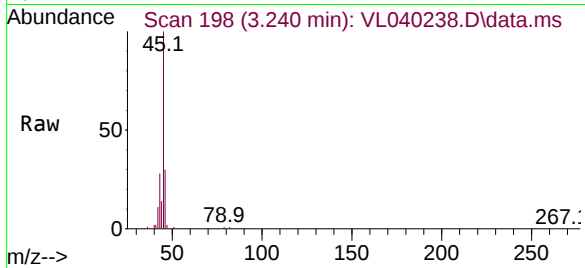




#13
 Ethanol
 Concen: 18.316 ppbv
 RT: 3.240 min Scan# 193
 Delta R.T. 0.007 min
 Lab File: VL040238.D
 Acq: 27 Feb 2023 16:35

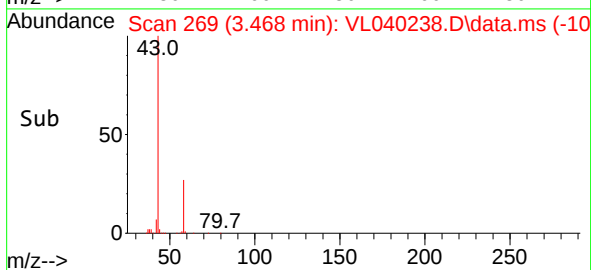
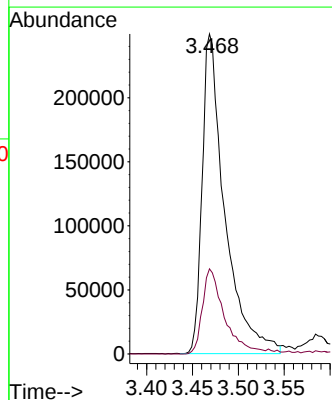
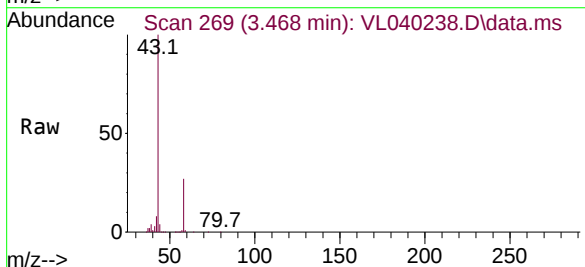
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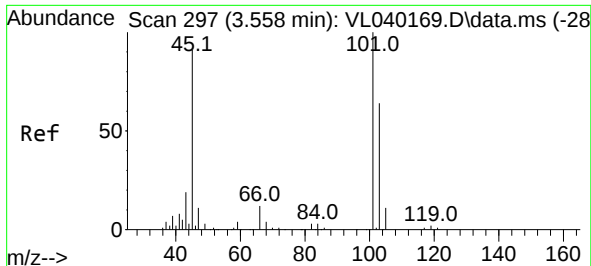
Tgt Ion: 45 Resp: 69298
 Ion Ratio Lower Upper
 45 100
 46 45.6 13.3 53.1



#15
 Acetone
 Concen: 4.216 ppbv
 RT: 3.468 min Scan# 269
 Delta R.T. 0.013 min
 Lab File: VL040238.D
 Acq: 27 Feb 2023 16:35

Tgt Ion: 43 Resp: 428346
 Ion Ratio Lower Upper
 43 100
 58 27.1 22.4 33.6





#19

Isopropyl Alcohol

Concen: 1.101 ppbv

RT: 3.581 min Scan# 304

Delta R.T. 0.016 min

Lab File: VL040238.D

Acq: 27 Feb 2023 16:35

Instrument :

MSVOA_L

ClientSampleId :

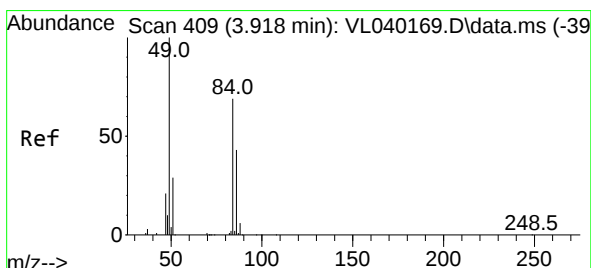
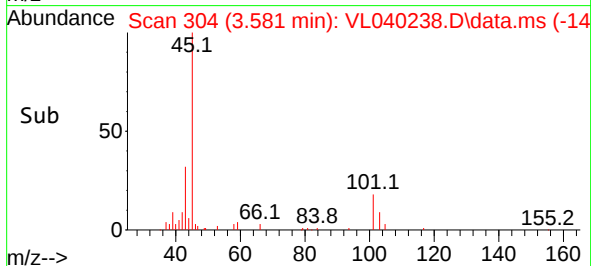
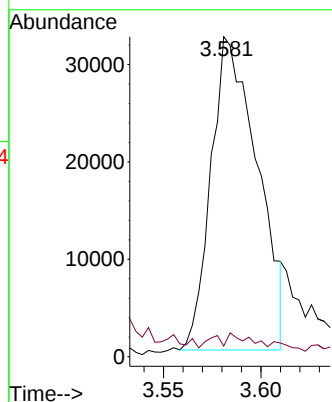
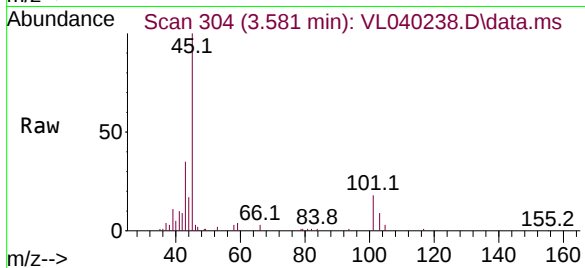
02212023-INFLUENT

Tgt Ion: 45 Resp: 53180

Ion Ratio Lower Upper

45 100

58 15.0 2.6 3.8#



#20

Methylene Chloride

Concen: 19.132 ppbv

RT: 3.935 min Scan# 414

Delta R.T. 0.013 min

Lab File: VL040238.D

Acq: 27 Feb 2023 16:35

Tgt Ion: 84 Resp: 1011994

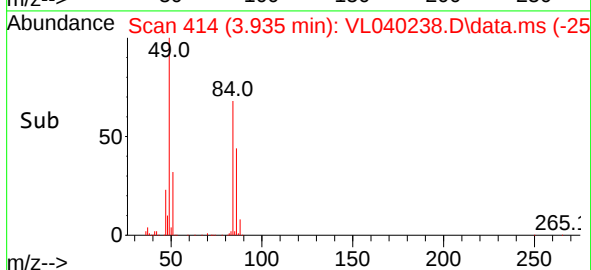
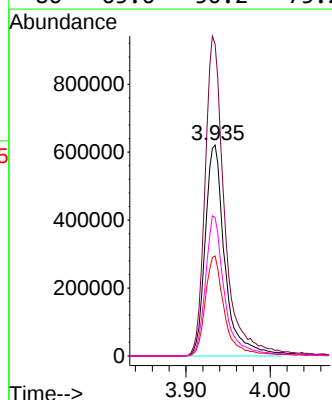
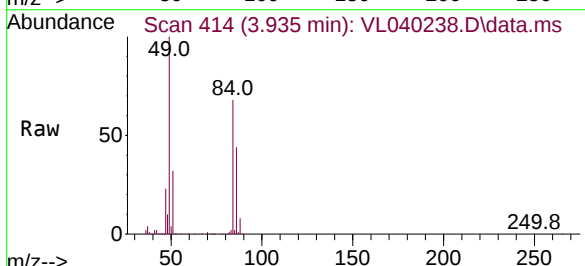
Ion Ratio Lower Upper

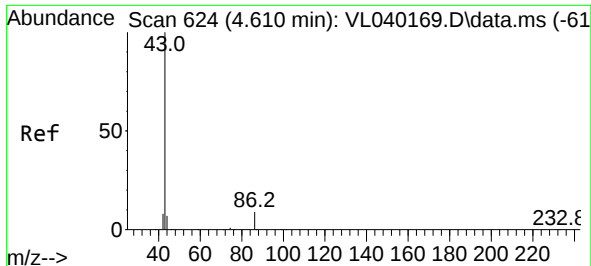
84 100

49 147.9 115.5 173.3

51 47.4 33.1 49.7

86 65.6 50.2 75.2

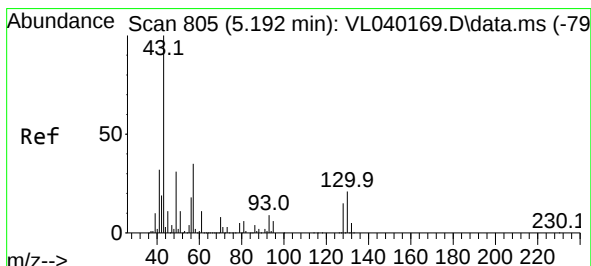
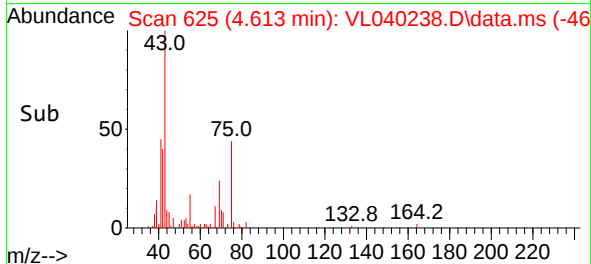
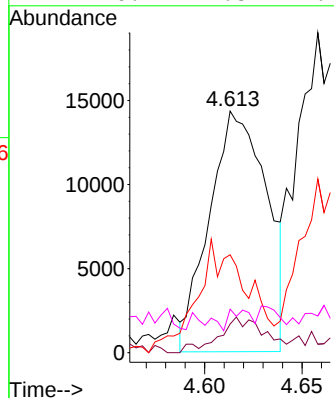
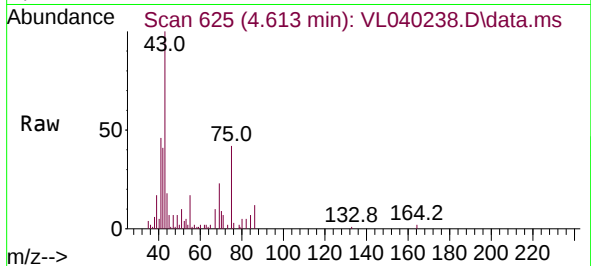




#23
 Vinyl Acetate
 Concen: 0.948 ppbv
 RT: 4.613 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL040238.D
 Acq: 27 Feb 2023 16:35

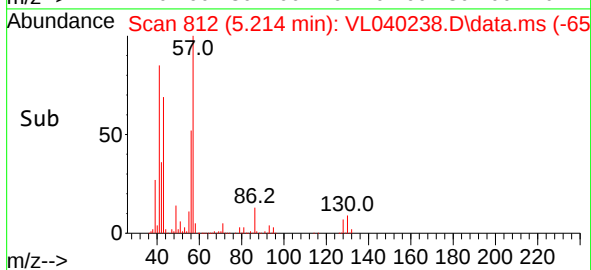
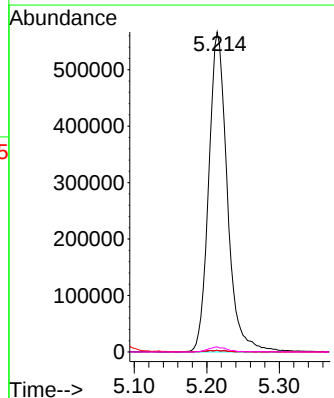
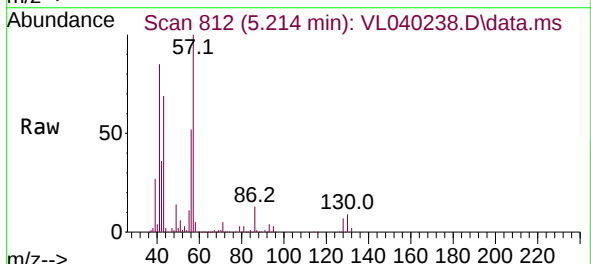
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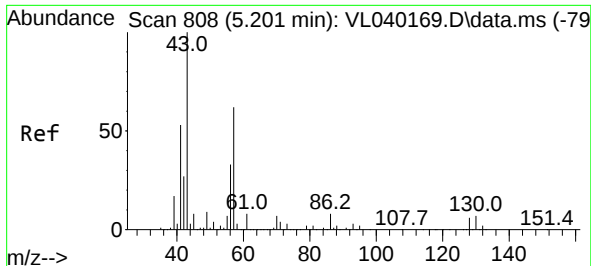
Tgt Ion:	43	Resp:	29231
Ion	Ratio	Lower	Upper
43	100		
86	15.3	5.6	8.4#
42	42.0	7.6	11.4#
44	10.2	4.8	7.2#



#25
 Ethyl Acetate
 Concen: 5.340 ppbv
 RT: 5.214 min Scan# 812
 Delta R.T. 0.019 min
 Lab File: VL040238.D
 Acq: 27 Feb 2023 16:35

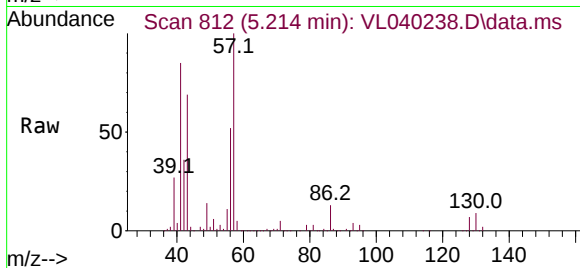
Tgt Ion:	43	Resp:	1008682
Ion	Ratio	Lower	Upper
43	100		
45	0.6	8.3	12.5#
61	0.6	8.4	12.6#
70	1.6	6.1	9.1#





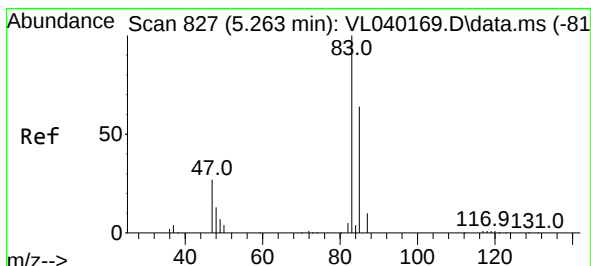
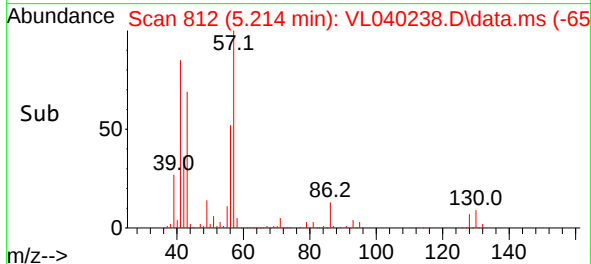
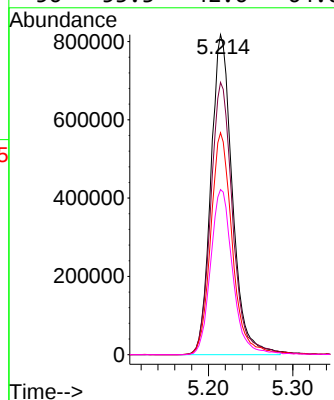
#26
Hexane
Concen: 17.866 ppbv
RT: 5.214 min Scan# 811
Delta R.T. 0.010 min
Lab File: VL040238.D
Acq: 27 Feb 2023 16:35

Instrument :
MSVOA_L
ClientSampleId :
02212023-INFLUENT



Tgt Ion: 57 Resp: 1448763

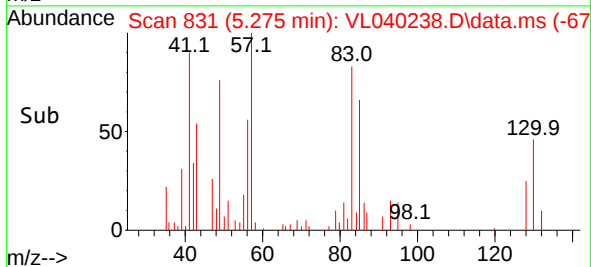
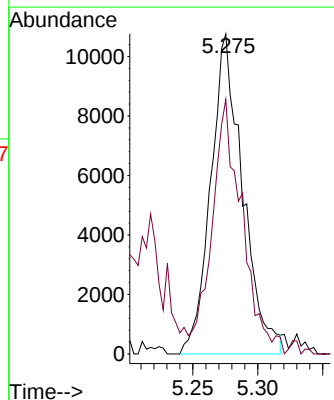
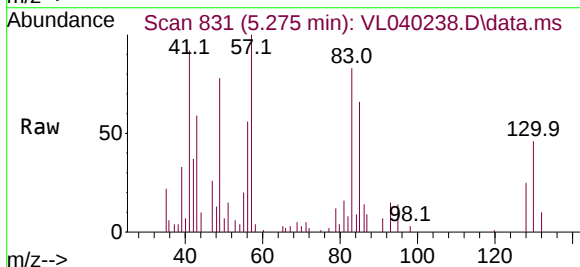
Ion	Ratio	Lower	Upper
57	100		
41	88.1	74.3	111.5
43	70.0	193.0	289.4#
56	53.3	42.6	64.0

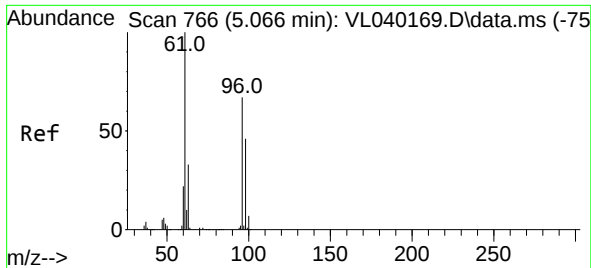


#29
Chloroform
Concen: 0.132 ppbv
RT: 5.275 min Scan# 831
Delta R.T. 0.010 min
Lab File: VL040238.D
Acq: 27 Feb 2023 16:35

Tgt Ion: 83 Resp: 18410

Ion	Ratio	Lower	Upper
83	100		
85	74.3	51.5	77.3

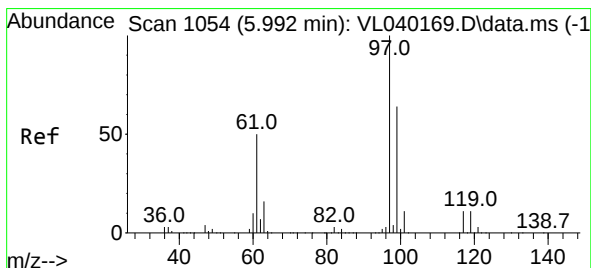
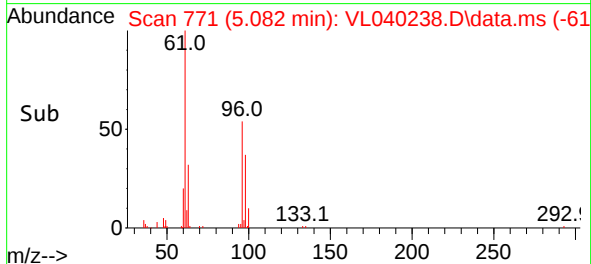
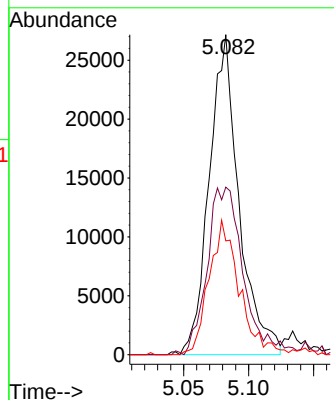
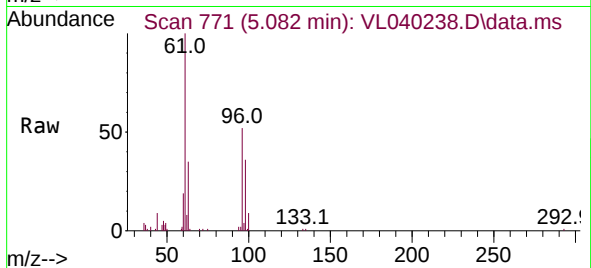




#31
cis-1,2-Dichloroethene
Concen: 0.561 ppbv
RT: 5.082 min Scan# 71
Delta R.T. 0.013 min
Lab File: VL040238.D
Acq: 27 Feb 2023 16:35

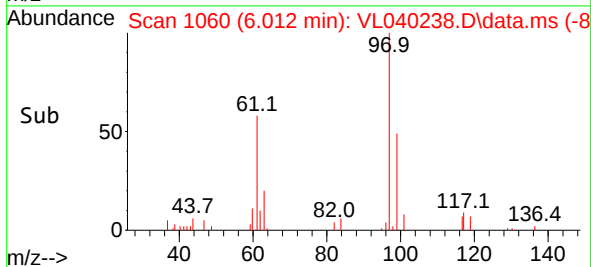
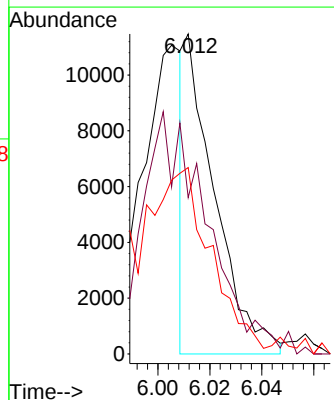
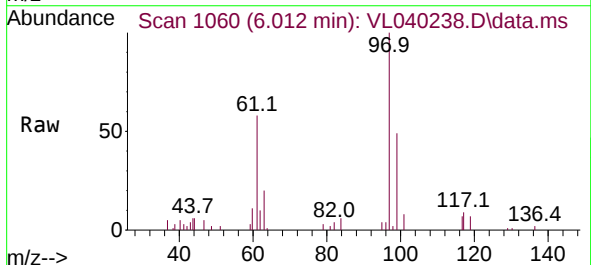
Instrument :
MSVOA_L
ClientSampleId :
02212023-INFLUENT

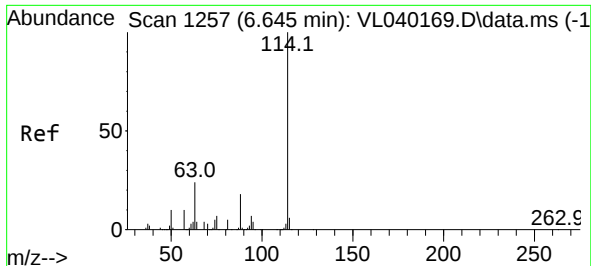
Tgt Ion: 61 Resp: 43226
Ion Ratio Lower Upper
61 100
96 51.6 53.7 80.5#
98 35.6 36.4 54.6#



#32
1,1,1-Trichloroethane
Concen: 0.070 ppbv
RT: 6.012 min Scan# 1060
Delta R.T. 0.016 min
Lab File: VL040238.D
Acq: 27 Feb 2023 16:35

Tgt Ion: 97 Resp: 9216
Ion Ratio Lower Upper
97 100
99 0.0 51.5 77.3#
61 146.9 40.6 60.8#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 1

Delta R.T. 0.010 min

Lab File: VL040238.D

Acq: 27 Feb 2023 16:35

Instrument :

MSVOA_L

ClientSampleId :

02212023-INFLUENT

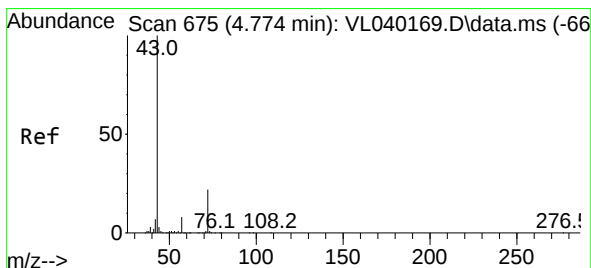
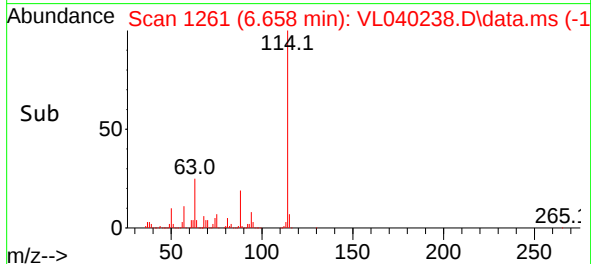
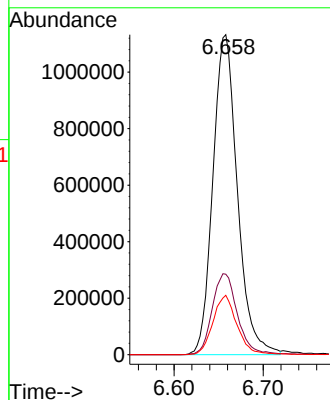
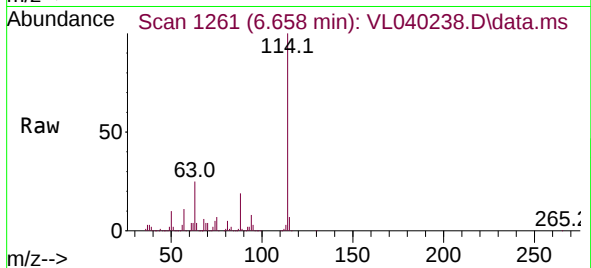
Tgt Ion:114 Resp: 2161505

Ion Ratio Lower Upper

114 100

63 26.3 20.4 30.6

88 18.4 14.3 21.5



#34

2-Butanone

Concen: 0.291 ppbv

RT: 4.800 min Scan# 683

Delta R.T. 0.026 min

Lab File: VL040238.D

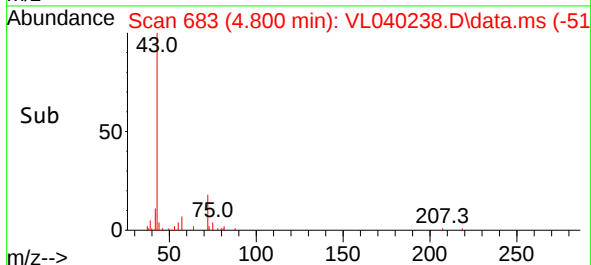
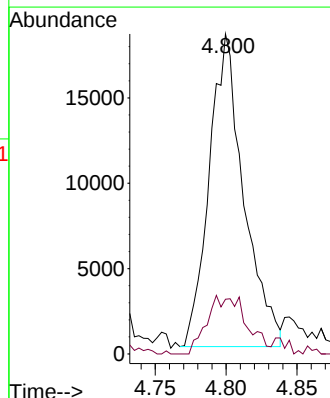
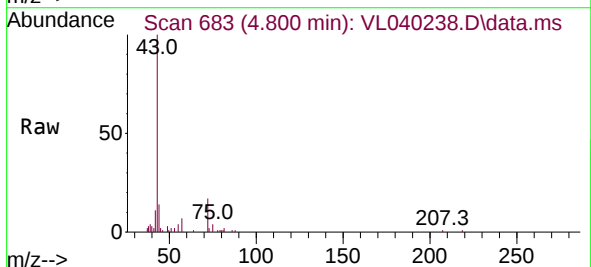
Acq: 27 Feb 2023 16:35

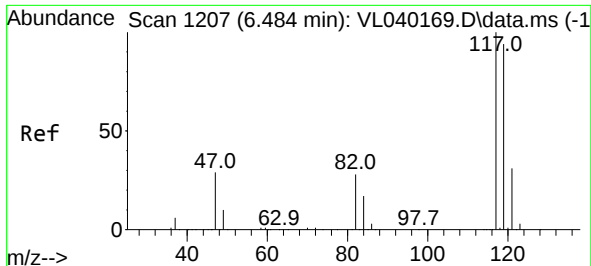
Tgt Ion: 43 Resp: 31016

Ion Ratio Lower Upper

43 100

72 23.9 17.8 26.8

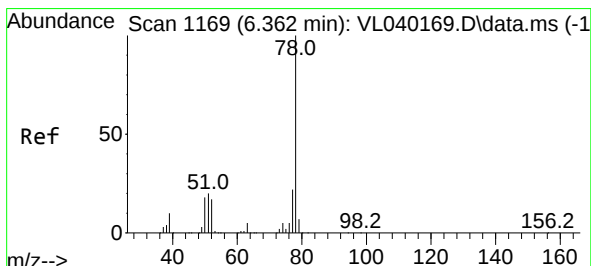
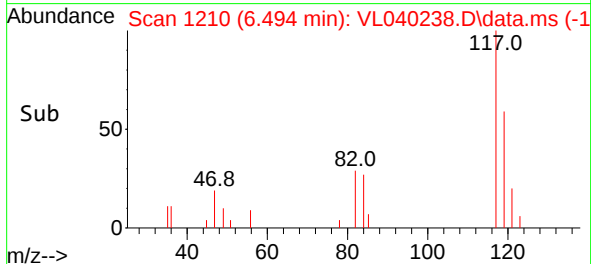
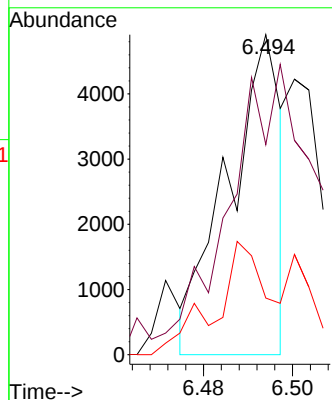
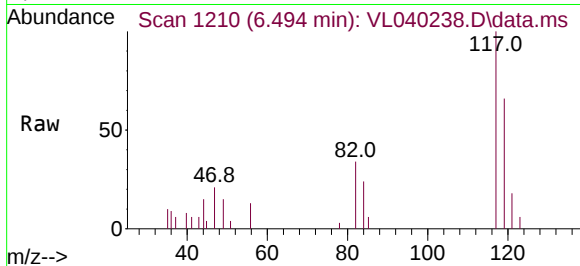




#35
Carbon Tetrachloride
Concen: 0.032 ppbv
RT: 6.494 min Scan# 1173
Delta R.T. 0.007 min
Lab File: VL040238.D
Acq: 27 Feb 2023 16:35

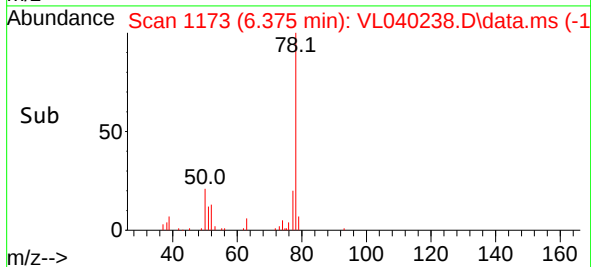
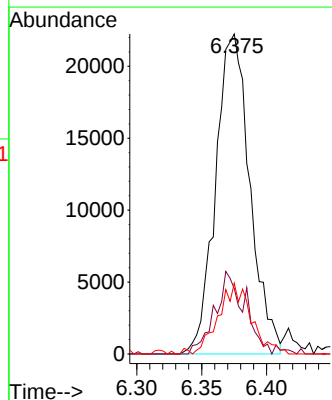
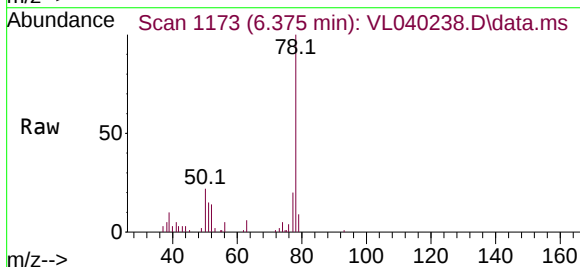
Instrument :
MSVOA_L
ClientSampleId :
02212023-INFLUENT

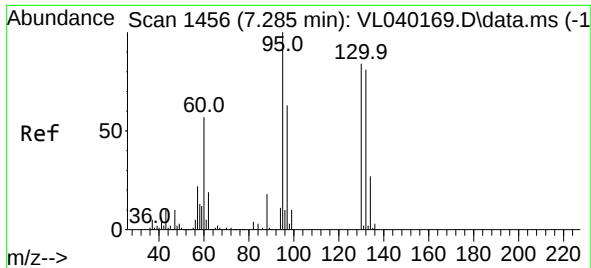
Tgt Ion:117 Resp: 4049
Ion Ratio Lower Upper
117 100
119 63.7 75.0 112.6#
121 12.8 25.0 37.4#



#36
Benzene
Concen: 0.242 ppbv
RT: 6.375 min Scan# 1173
Delta R.T. 0.010 min
Lab File: VL040238.D
Acq: 27 Feb 2023 16:35

Tgt Ion: 78 Resp: 40766
Ion Ratio Lower Upper
78 100
77 20.5 17.5 26.3
50 22.1 14.6 22.0#

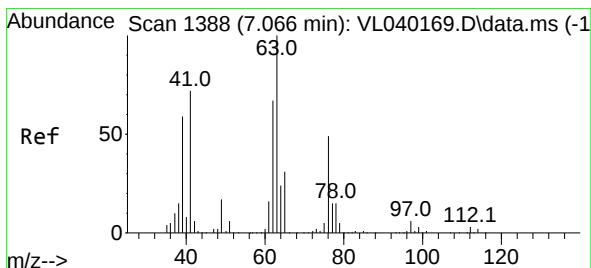
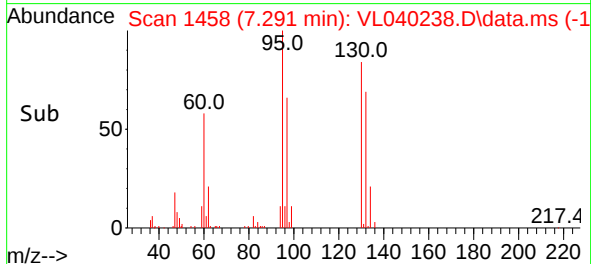
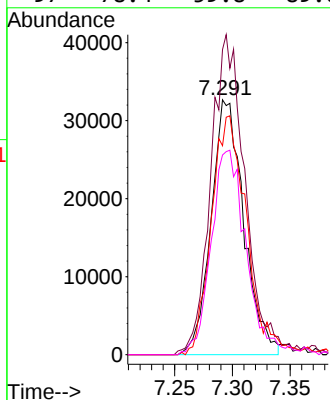
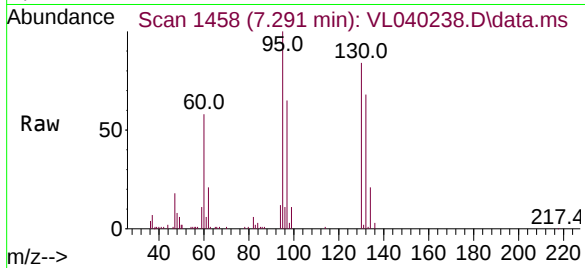




#38
 Trichloroethene
 Concen: 0.694 ppbv
 RT: 7.291 min Scan# 1456
 Delta R.T. 0.003 min
 Lab File: VL040238.D
 Acq: 27 Feb 2023 16:35

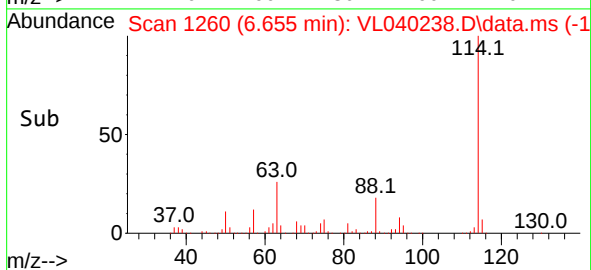
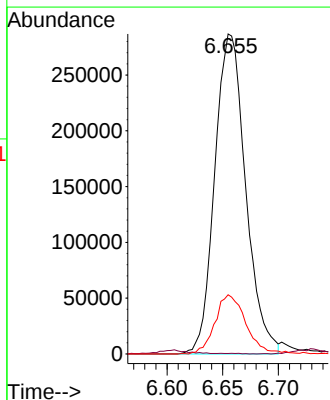
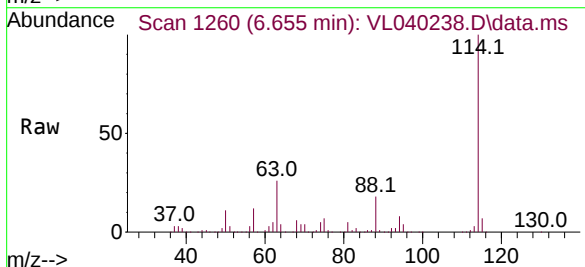
Instrument :
 MSVOA_L
 ClientSampleId :
 02212023-INFLUENT

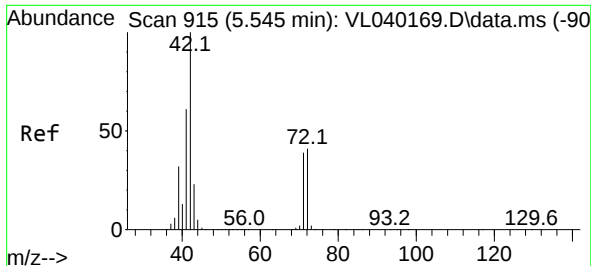
Tgt Ion:130 Resp: 64285
 Ion Ratio Lower Upper
 130 100
 95 118.2 94.7 142.1
 132 82.0 76.4 114.6
 97 78.4 59.8 89.6



#39
 1,2-Dichloropropane
 Concen: 8.460 ppbv
 RT: 6.655 min Scan# 1260
 Delta R.T. -0.415 min
 Lab File: VL040238.D
 Acq: 27 Feb 2023 16:35

Tgt Ion: 63 Resp: 553602
 Ion Ratio Lower Upper
 63 100
 41 0.0 57.6 86.4#
 62 18.5 54.0 81.0#





#41

Tetrahydrofuran

Concen: 8.596 ppbv

RT: 5.214 min Scan# 81

Delta R.T. -0.334 min

Lab File: VL040238.D

Acq: 27 Feb 2023 16:35

Instrument :

MSVOA_L

ClientSampleId :

02212023-INFLUENT

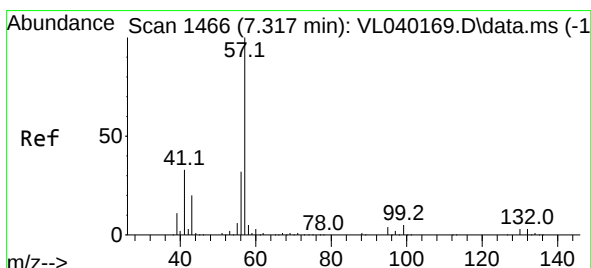
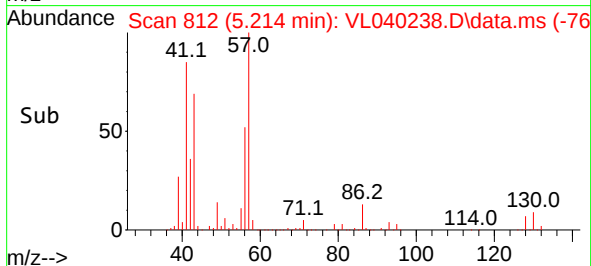
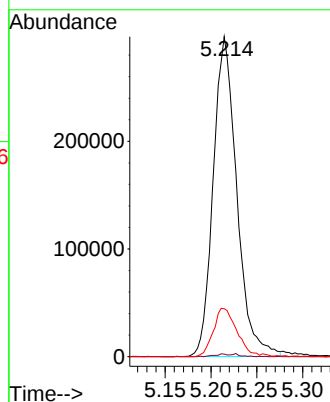
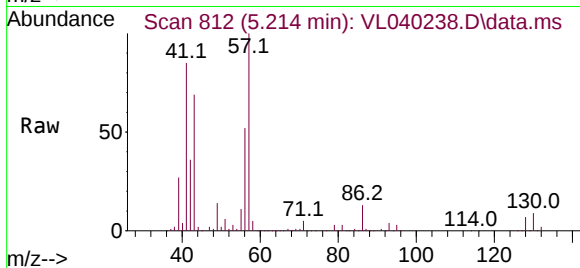
Tgt Ion: 42 Resp: 531149

Ion Ratio Lower Upper

42 100

72 0.9 33.0 49.4#

71 15.5 31.4 47.2#



#44

2,2,4-Trimethylpentane

Concen: 0.040 ppbv

RT: 7.327 min Scan# 1469

Delta R.T. 0.007 min

Lab File: VL040238.D

Acq: 27 Feb 2023 16:35

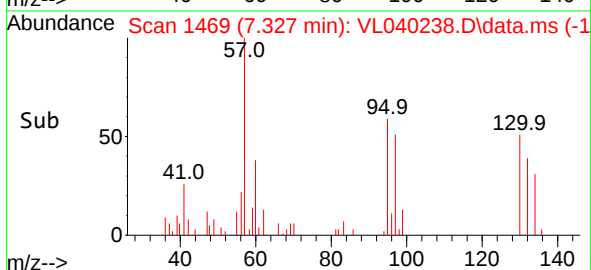
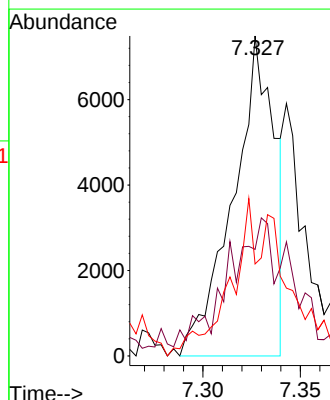
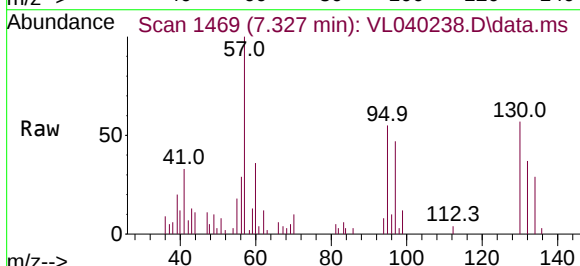
Tgt Ion: 57 Resp: 11094

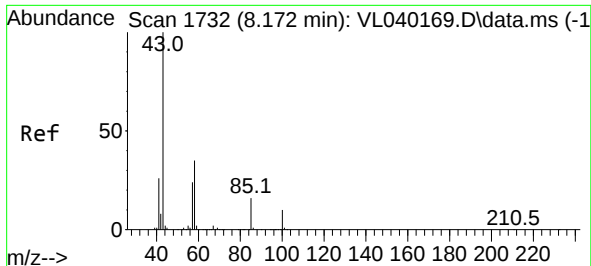
Ion Ratio Lower Upper

57 100

41 71.0 26.2 39.4#

56 71.0 24.9 37.3#

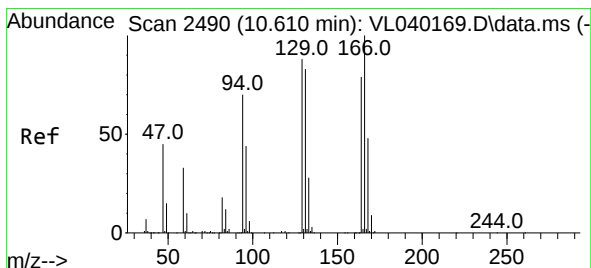
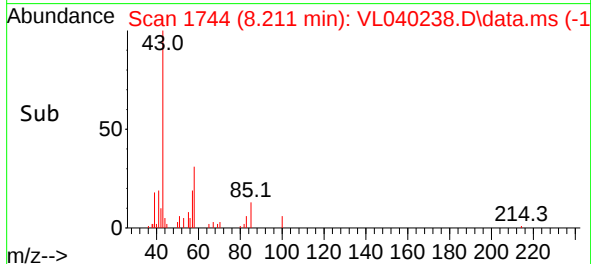
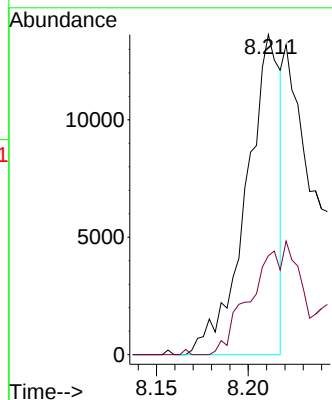
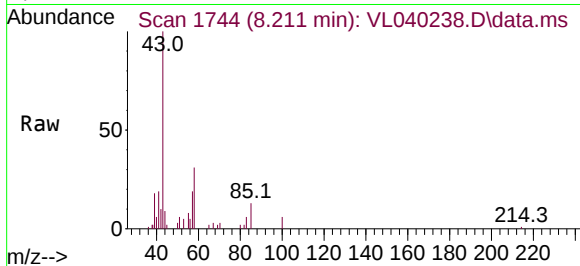




#50
4-Methyl-2-Pentanone
Concen: 0.106 ppbv
RT: 8.211 min Scan# 1732
Delta R.T. 0.035 min
Lab File: VL040238.D
Acq: 27 Feb 2023 16:35

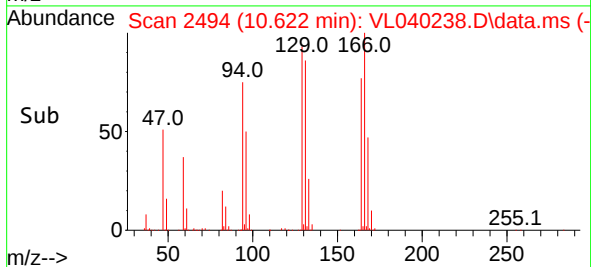
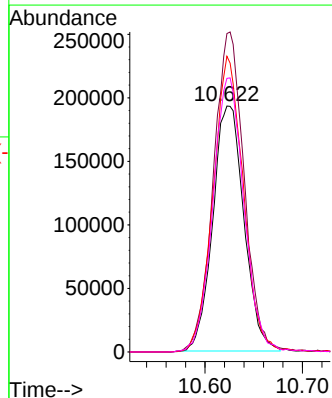
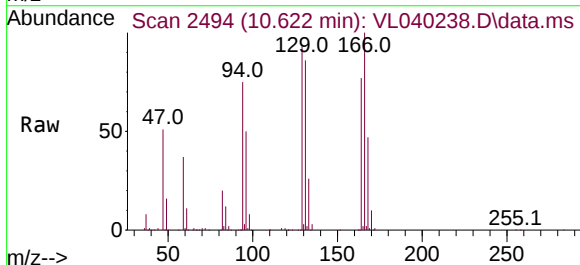
Instrument :
MSVOA_L
ClientSampleId :
02212023-INFLUENT

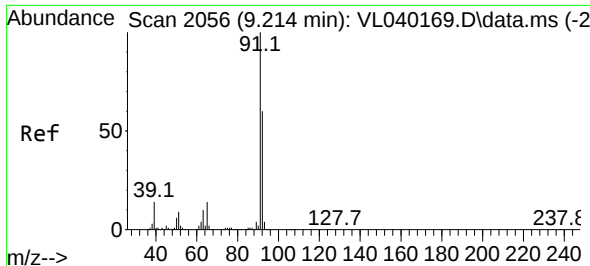
Tgt Ion: 43 Resp: 17533
Ion Ratio Lower Upper
43 100
58 0.0 29.2 43.8#



#52
Tetrachloroethene
Concen: 8.158 ppbv
RT: 10.622 min Scan# 2494
Delta R.T. 0.003 min
Lab File: VL040238.D
Acq: 27 Feb 2023 16:35

Tgt Ion:164 Resp: 428520
Ion Ratio Lower Upper
164 100
166 129.7 101.5 152.3
129 120.3 89.0 133.4
131 111.2 84.2 126.4

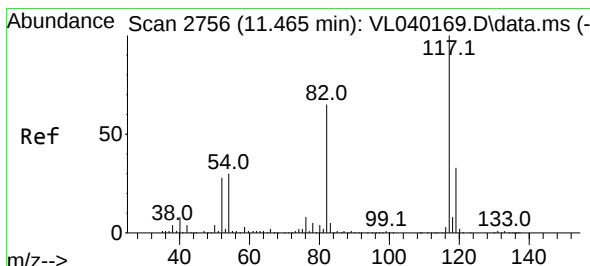
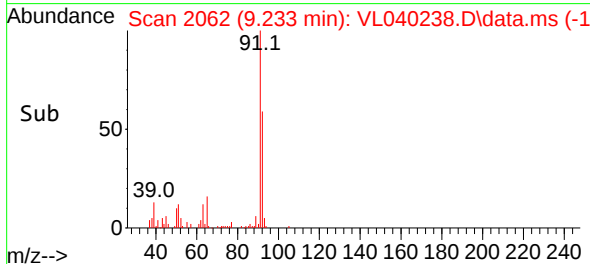
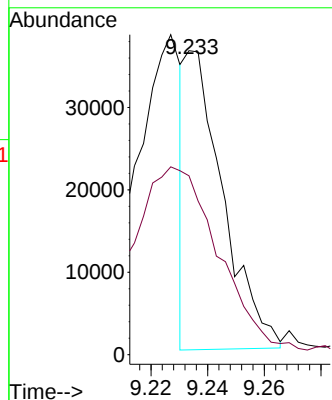
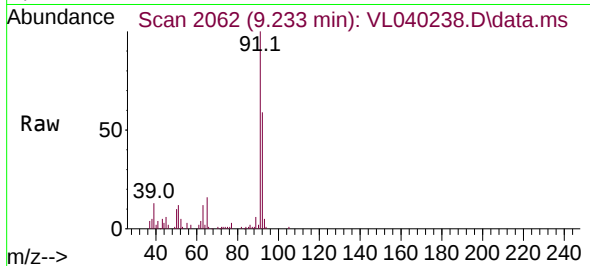




#53
Toluene
Concen: 0.185 ppbv
RT: 9.233 min Scan# 2056
Delta R.T. 0.016 min
Lab File: VL040238.D
Acq: 27 Feb 2023 16:35

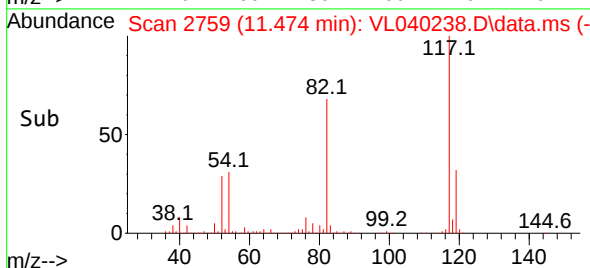
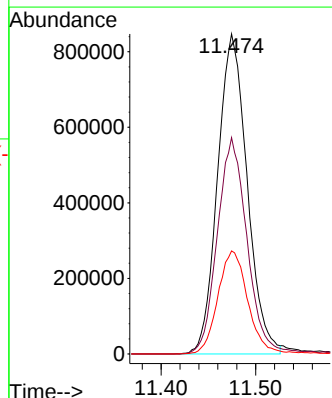
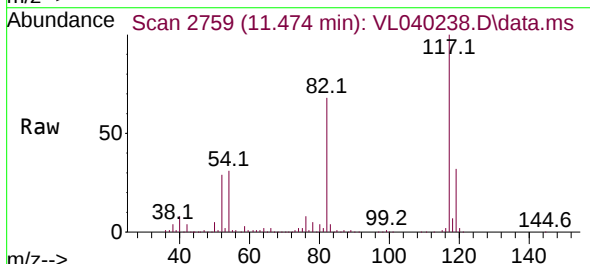
Instrument :
MSVOA_L
ClientSampleId :
02212023-INFLUENT

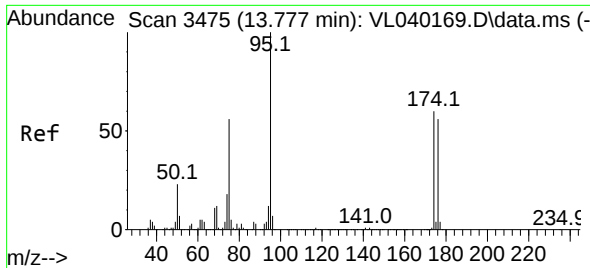
Tgt Ion: 91 Resp: 33320
Ion Ratio Lower Upper
91 100
92 0.0 48.9 73.3#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.474 min Scan# 2759
Delta R.T. 0.007 min
Lab File: VL040238.D
Acq: 27 Feb 2023 16:35

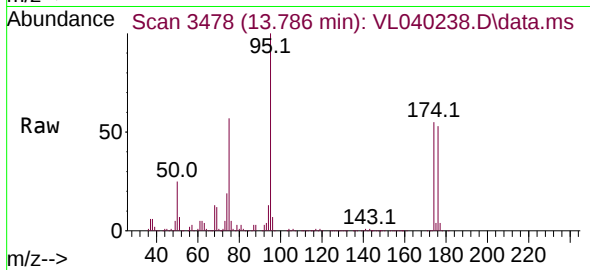
Tgt Ion: 117 Resp: 1837517
Ion Ratio Lower Upper
117 100
82 69.0 53.3 79.9
119 33.1 24.6 37.0





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.521 ppbv
 RT: 13.786 min Scan# 3475
 Delta R.T. 0.010 min
 Lab File: VL040238.D
 Acq: 27 Feb 2023 16:35

Instrument :
 MSVOA_L
 ClientSampleId :
 02212023-INFLUENT



Tgt Ion: 95 Resp: 1438609

Ion	Ratio	Lower	Upper
95	100		
174	58.4	48.2	72.2
175	4.0	3.4	5.2

