

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX100220\
 Data File : VX018759.D
 Acq On : 02 Oct 2020 19:54
 Operator : JC/SP
 Sample : L4239-06
 Misc : 25.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BG3N6

Manual Integrations
 APPROVED

MMDadoda
 10/6/2020 1:25:44 PM

Quant Time: Oct 03 08:17:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SOMXTR100220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Oct 02 14:11:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.84	114	345172	5.00	ug/L	0.01
28) Chlorobenzene-d5	10.10	117	314542	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	12.09	152	164120	5.00	ug/L	0.02

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	112371	5.57	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	111.40%
7) Chloroethane-d5	1.70	69	80585	5.11	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	102.20%
11) 1,1-Dichloroethene-d2	2.36	63	1527568	33.58	ug/L	0.01
Spiked Amount	5.000	Range	60 - 125	Recovery	=	671.60%#
20) 2-Butanone-d5	4.62	46	280859	53.10	ug/L	0.07
Spiked Amount	50.000	Range	40 - 130	Recovery	=	106.20%
24) Chloroform-d	5.16	84	216300	4.43	ug/L	0.02
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.60%
26) 1,2-Dichloroethane-d4	6.04	65	124269	4.17	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	83.40%
32) Benzene-d6	6.06	84	437238	5.59	ug/L	0.01
Spiked Amount	5.000	Range	70 - 125	Recovery	=	111.80%
36) 1,2-Dichloropropane-d6	7.38	67	133078	5.89	ug/L	0.01
Spiked Amount	5.000	Range	60 - 140	Recovery	=	117.80%
41) Toluene-d8	8.80	98	408353	5.30	ug/L	0.10
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.00%
45) trans-1,3-Dichloropropene-	9.02	79	55561	4.57	ug/L	0.03
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.40%
48) 2-Hexanone-d5	9.44	63	233765	57.37	ug/L	0.01
Spiked Amount	50.000	Range	45 - 130	Recovery	=	114.74%
59) 1,1,2,2-Tetrachloroethane-	11.26	84	93960	5.11	ug/L	0.02
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.20%
65) 1,2-Dichlorobenzene-d4	12.37	152	157532	5.20	ug/L	0.01
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.31	50	23141	1.386	ug/L #	81
8) Chloroethane	1.72	64	185579	16.428	ug/L #	61
10) 1,1,2-Trichloro-1,2,2-trif	2.36	101	11202	0.578	ug/L #	55
12) 1,1-Dichloroethene	2.36	96	2470125	143.659	ug/L #	54
13) Acetone	2.47	43	61446	21.280	ug/L	91
14) Carbon disulfide	2.56	76	573402	10.656	ug/L	100
18) trans-1,2-Dichloroethene	3.15	96	1223369	66.448	ug/L	90
19) 1,1-Dichloroethane	3.68	63	4789239	146.326	ug/L	97
22) cis-1,2-Dichloroethene	4.56	96	52271878m	2753.050	ug/L	
29) 1,1,1-Trichloroethane	5.46	97	76286711m	2050.168	ug/L	
30) Cyclohexane	5.61	56	6081352	235.640	ug/L	94
33) Benzene	6.12	78	1171217	17.781	ug/L	100
34) Trichloroethene	7.20	95	3453251	177.566	ug/L	97
35) Methylcyclohexane	7.45	83	28780	1.044	ug/L #	75
42) Toluene	8.84	91	110287162m	1530.162	ug/L	
47) 1,1,2-Trichloroethane	9.21	97	29681	2.383	ug/L	97
49) Tetrachloroethene	9.34	164	14243	0.838	ug/L	92

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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Oct 02 14:11:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) Chlorobenzene	10.13	112	838378	17.005	ug/L	94
54) Ethylbenzene	10.24	91	15097143	186.855	ug/L #	82
55) m,p-xylene	10.35	106	17537531m	556.470	ug/L	
56) o-xylene	10.70	106	14083704	483.570	ug/L #	26
58) Isopropylbenzene	11.01	105	5661438	69.435	ug/L	98
63) 1,3-Dichlorobenzene	12.04	146	37614	0.943	ug/L	96
64) 1,4-Dichlorobenzene	12.10	146	158261	3.978	ug/L	94
66) 1,2-Dichlorobenzene	12.38	146	600593	16.125	ug/L	98
69) 1,2,4-trichlorobenzene	13.63	180	318945	12.512	ug/L	94
71) 1,2,3-Trichlorobenzene	14.01	180	93516	4.077	ug/L	93

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

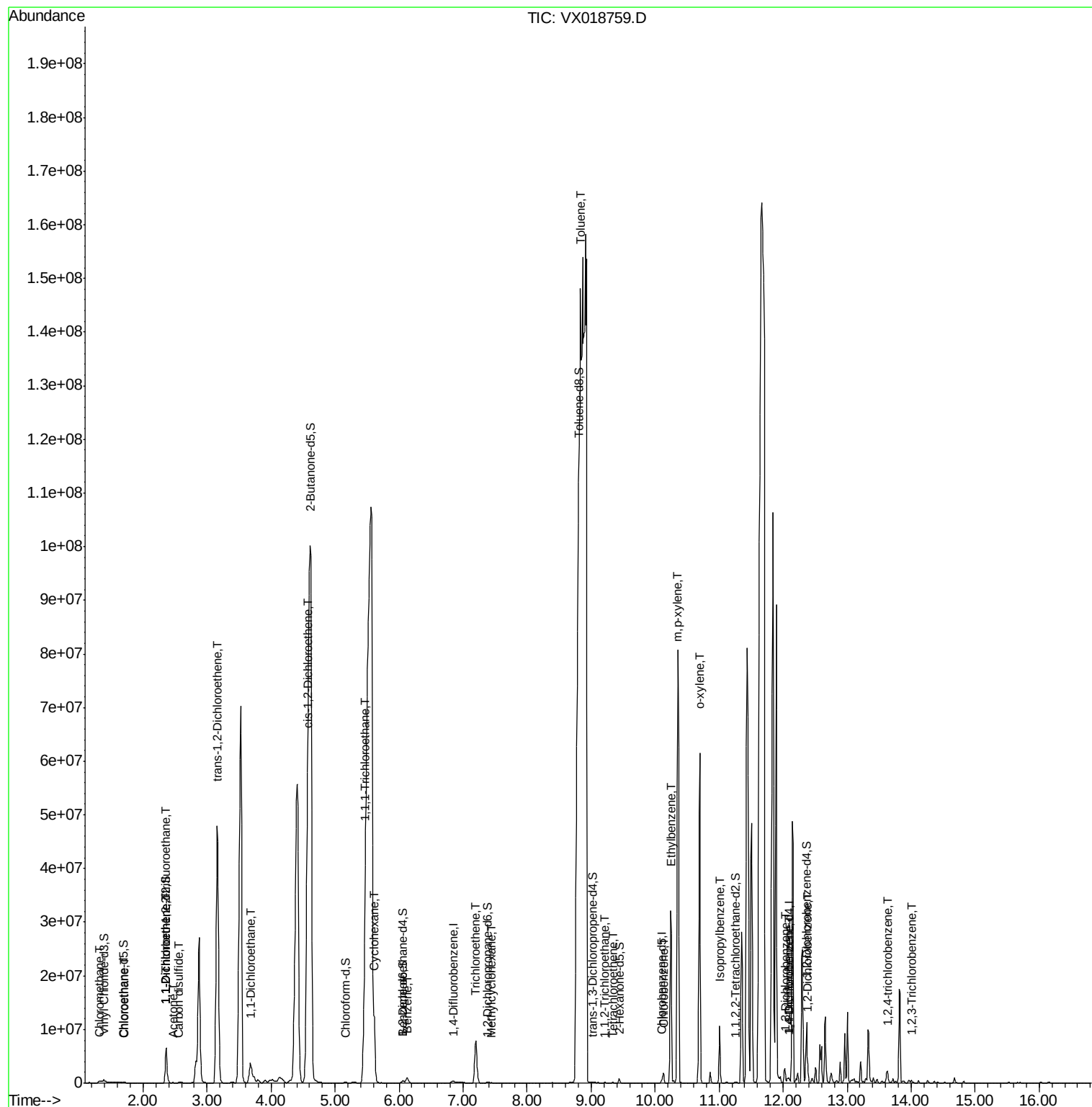
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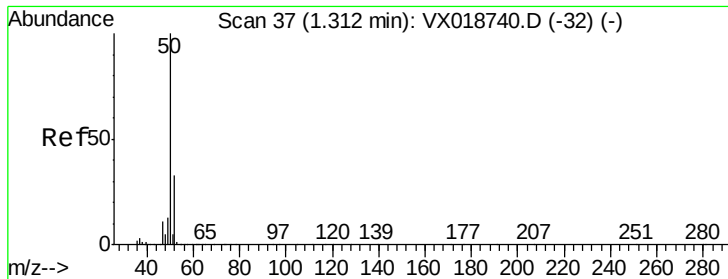
Instrument :
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#3

Chloromethane

Concen: 1.386 ug/L

RT: 1.31 min Scan# 36

Delta R.T. -0.01 min

Lab File: VX018759.D

Acq: 02 Oct 2020 19:54

Instrument :

MSVOA_X

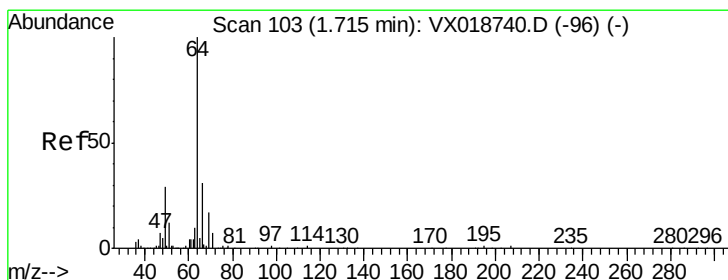
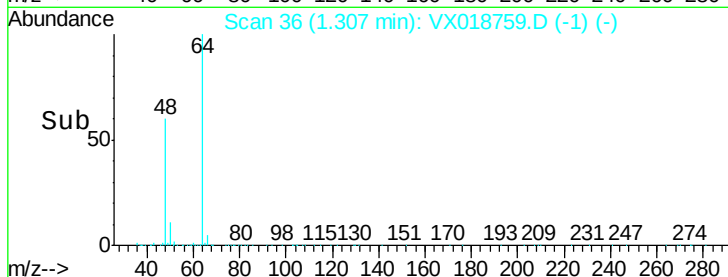
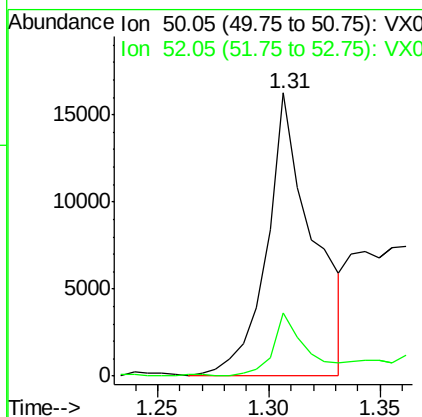
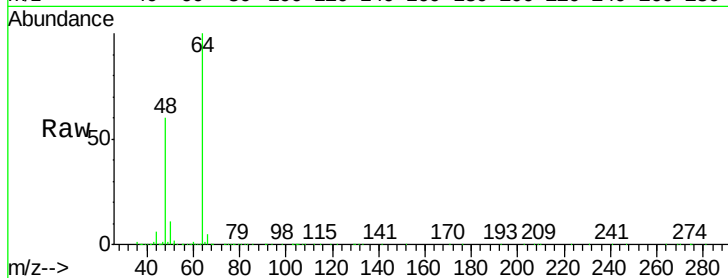
ClientSampleId :

BG3N6

Tot Ion	Ratio	Lower	Upper
50	100		
52	22.6	23.4	43.6#

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#8

Chloroethane

Concen: 16.428 ug/L

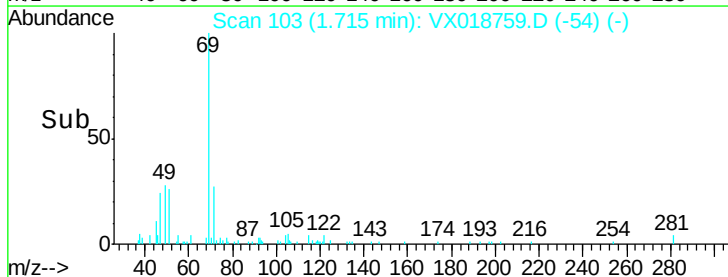
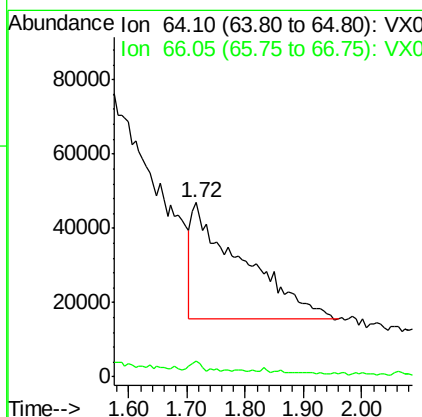
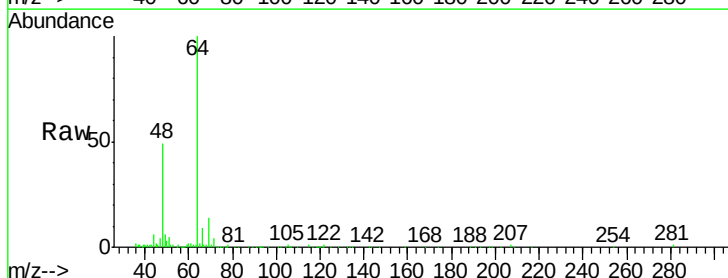
RT: 1.72 min Scan# 103

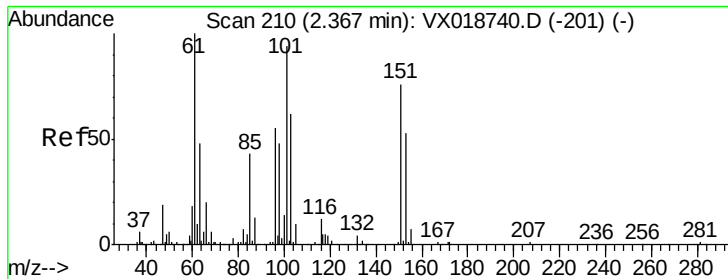
Delta R.T. 0.00 min

Lab File: VX018759.D

Acq: 02 Oct 2020 19:54

Tgt Ion	Ratio	Lower	Upper
64	100		
66	9.3	21.5	39.9#





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.578 ug/L

RT: 2.36 min Scan# 209

Delta R.T. -0.01 min

Lab File: VX018759.D

Acq: 02 Oct 2020 19:54

Instrument :

MSVOA_X

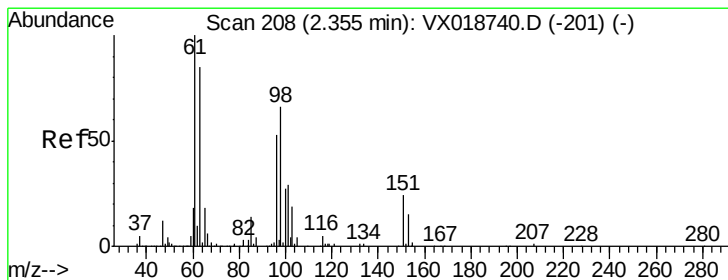
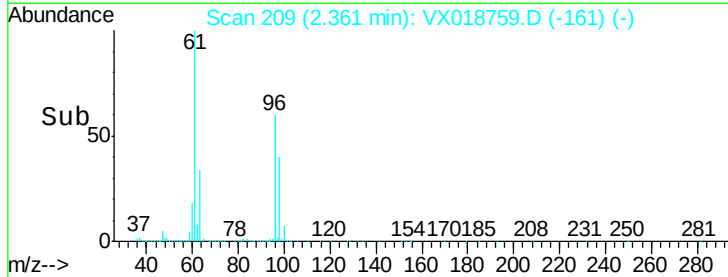
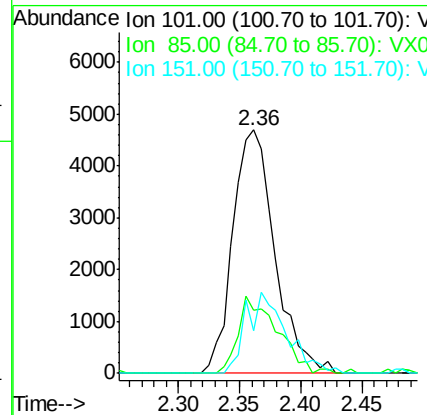
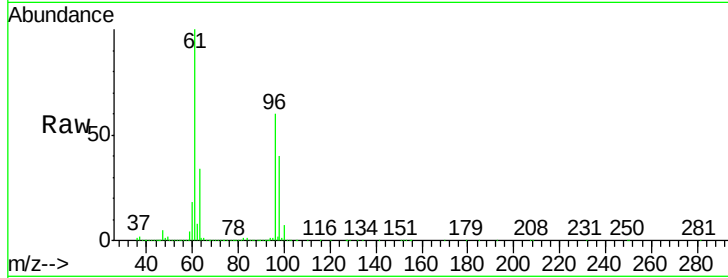
ClientSampleId :

BG3N6

Tot Ion:	101	Resp:	11202
Ion Ratio	Lower	Upper	
101	100		
85	29.3	37.1	55.7#
151	31.7	65.0	97.6#

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#12

1,1-Dichloroethene

Concen: 143.659 ug/L

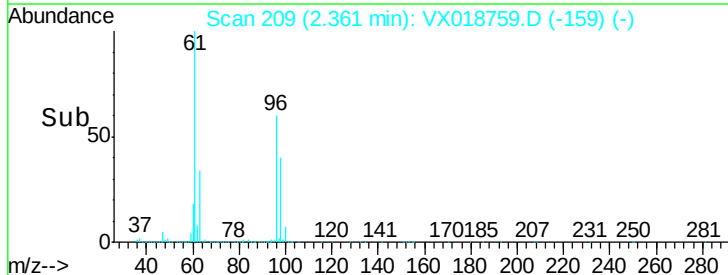
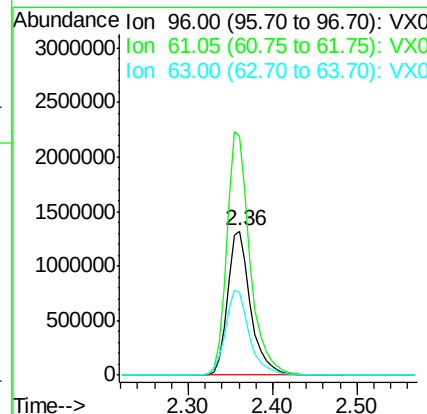
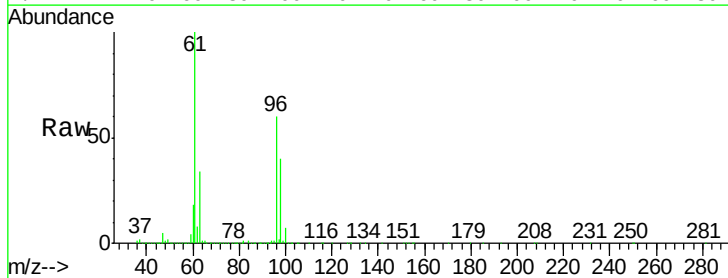
RT: 2.36 min Scan# 209

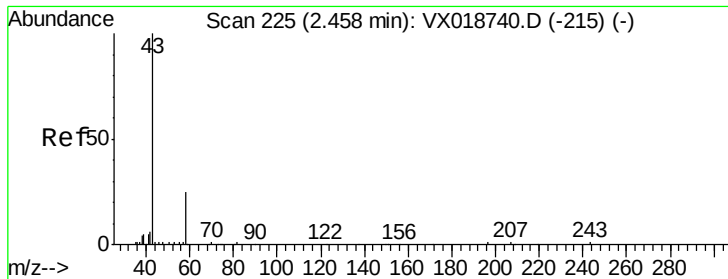
Delta R.T. 0.01 min

Lab File: VX018759.D

Acq: 02 Oct 2020 19:54

Tgt Ion:	96	Resp:	2470125
Ion Ratio	Lower	Upper	
96	100		
61	166.1	133.2	247.4
63	57.3	115.1	213.7#





#13

Acetone

Concen: 21.280 ug/L

RT: 2.47 min Scan# 227

Delta R.T. 0.01 min

Lab File: VX018759.D

Acq: 02 Oct 2020 19:54

Instrument :

MSVOA_X

ClientSampled :

BG3N6

Tot Ion: 43 Resp: 61446

Ion Ratio Lower Upper

43 100

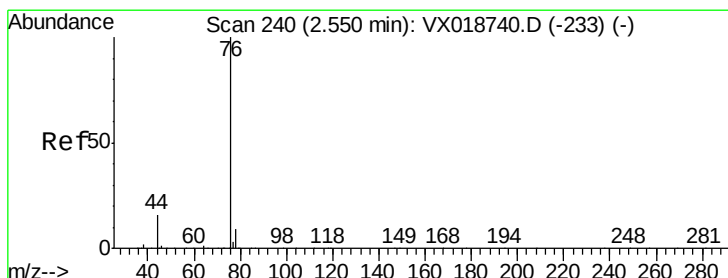
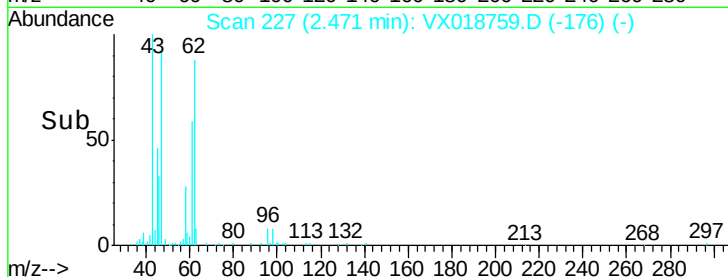
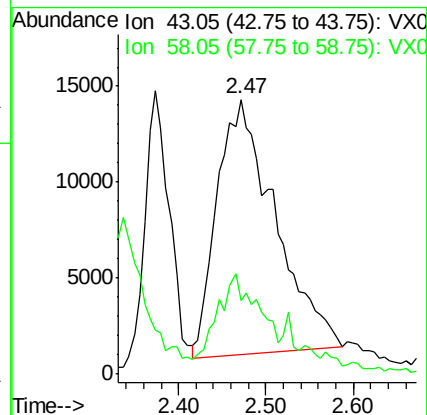
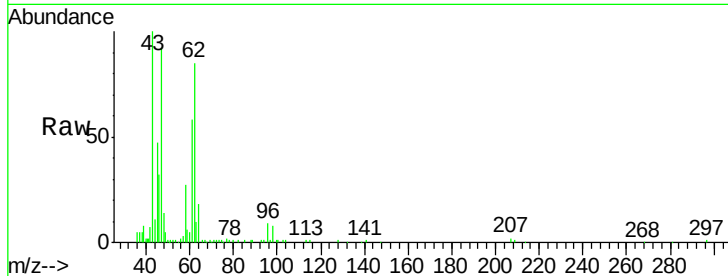
58 23.3 0.0 56.4

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#14

Carbon disulfide

Concen: 10.656 ug/L

RT: 2.56 min Scan# 242

Delta R.T. 0.01 min

Lab File: VX018759.D

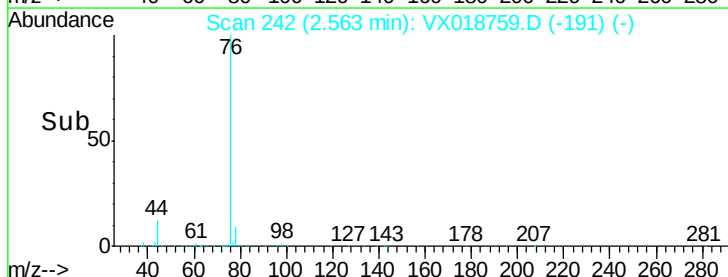
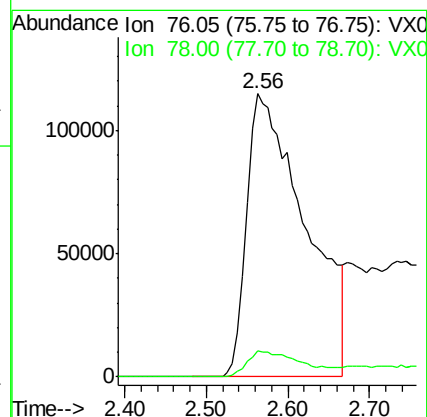
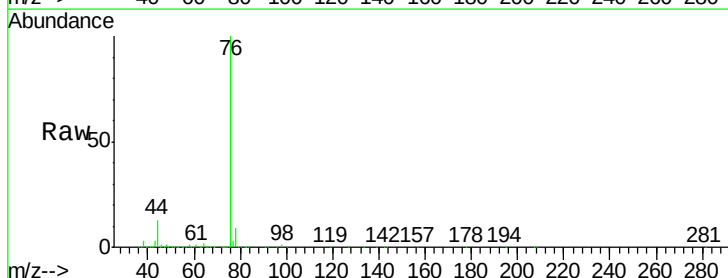
Acq: 02 Oct 2020 19:54

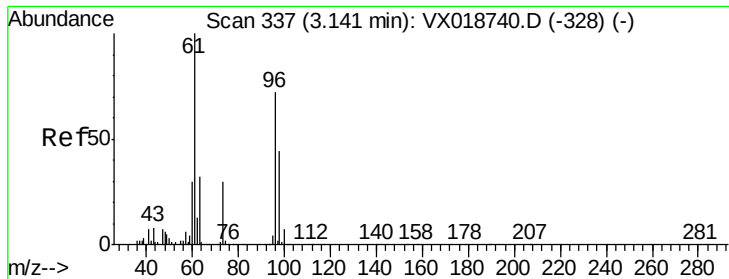
Tgt Ion: 76 Resp: 573402

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.2





#18

trans-1,2-Dichloroethene

Concen: 66.448 ug/L

RT: 3.15 min Scan# 339

Delta R.T. 0.01 min

Lab File: VX018759.D

Acq: 02 Oct 2020 19:54

Instrument :

MSVOA_X

ClientSampleId :

BG3N6

Tot Ion: 96 Resp: 1223369

Ion Ratio Lower Upper

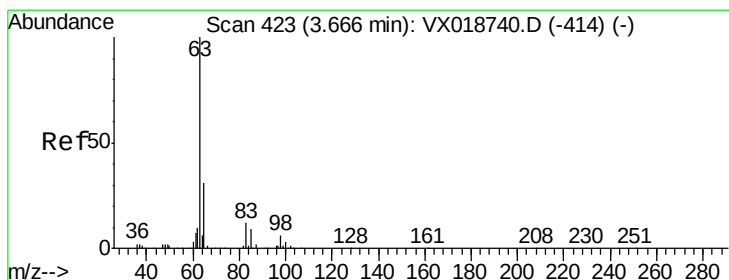
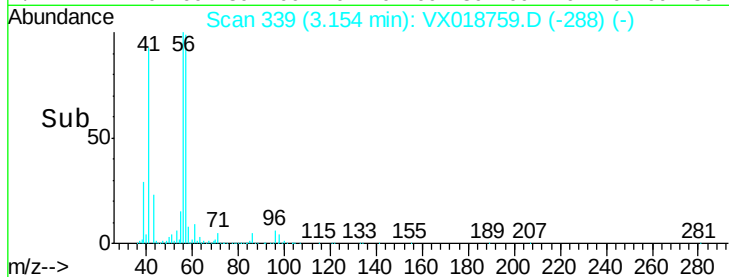
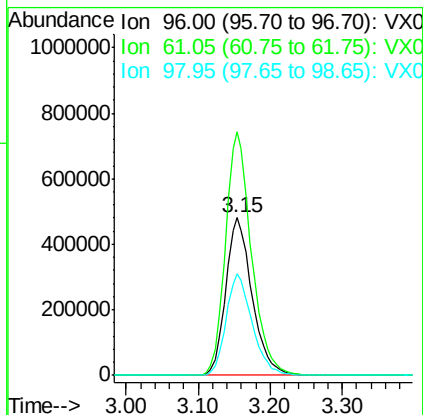
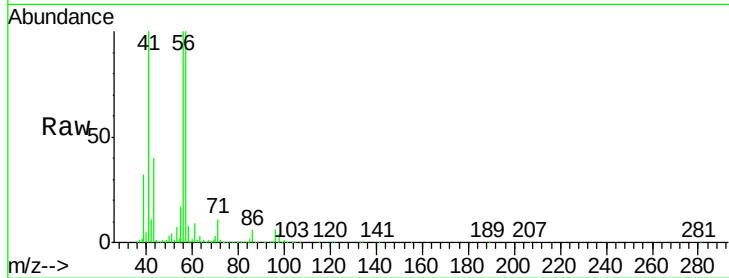
96 100

61 154.5 97.6 181.4

98 64.6 43.1 80.1

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#19

1,1-Dichloroethane

Concen: 146.326 ug/L

RT: 3.68 min Scan# 425

Delta R.T. 0.01 min

Lab File: VX018759.D

Acq: 02 Oct 2020 19:54

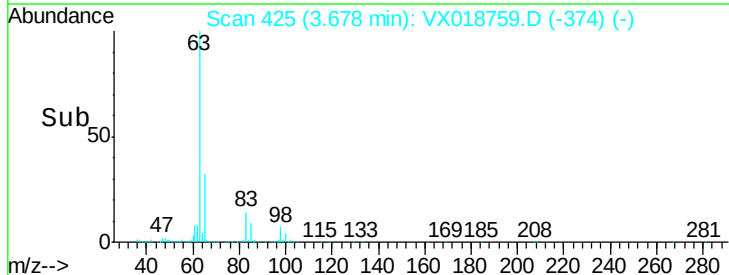
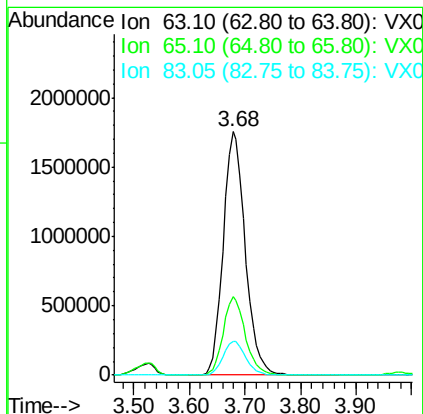
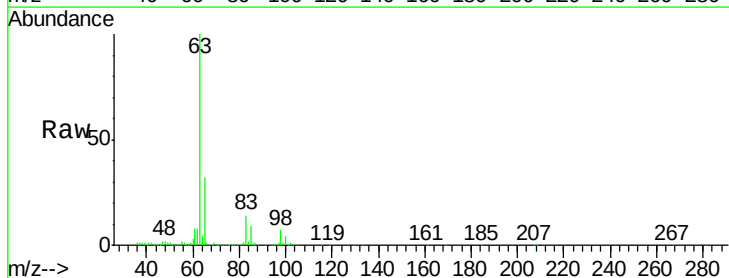
Tgt Ion: 63 Resp: 4789239

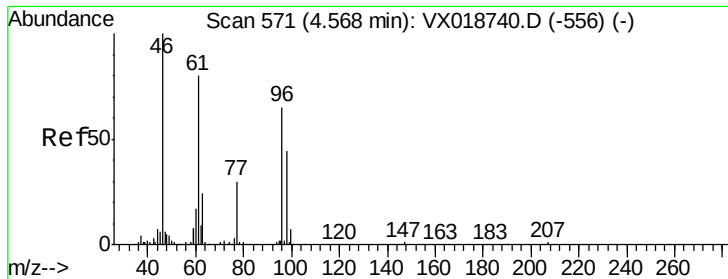
Ion Ratio Lower Upper

63 100

65 32.0 21.6 40.2

83 13.9 8.7 16.1





#22

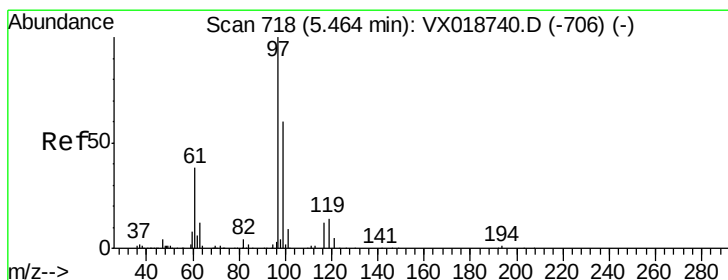
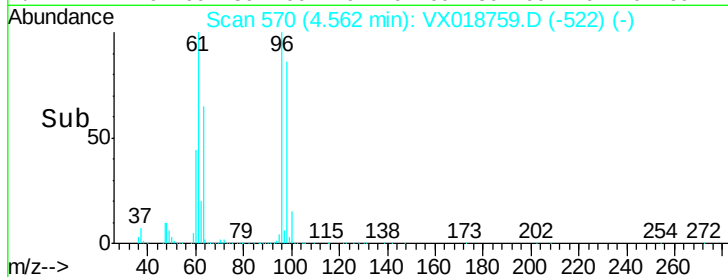
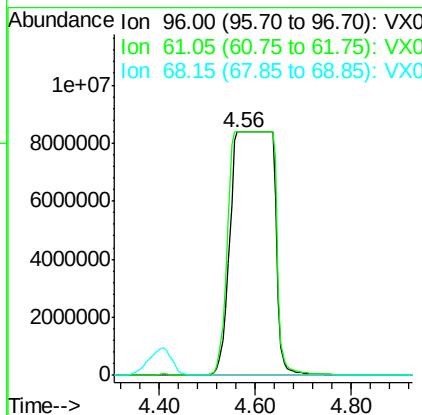
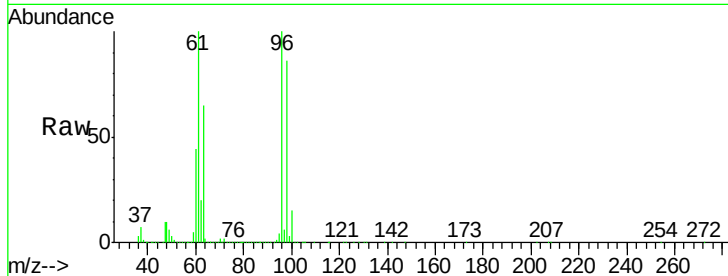
cis-1,2-Dichloroethene
Concen: 2753.050 ug/L m
RT: 4.56 min Scan# 570
Delta R.T. -0.01 min
Lab File: VX018759.D
Acq: 02 Oct 2020 19:54

Instrument :
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Tot Ion: 96 Resp:52271878
Ion Ratio Lower Upper
96 100
61 100.0 86.2 160.0
68 0.0 0.3 0.7#

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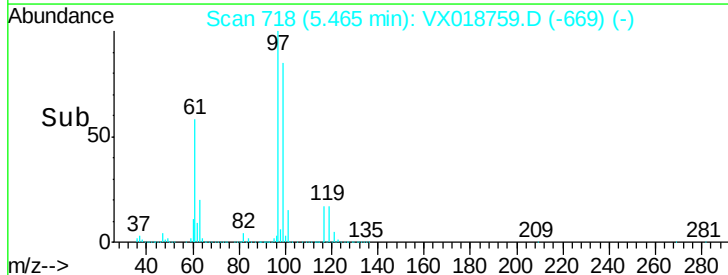
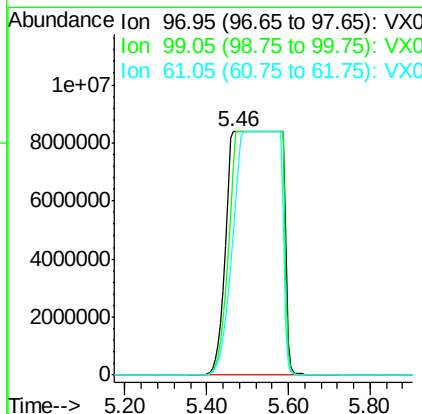
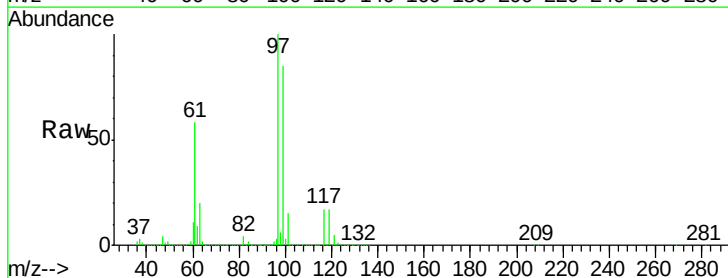
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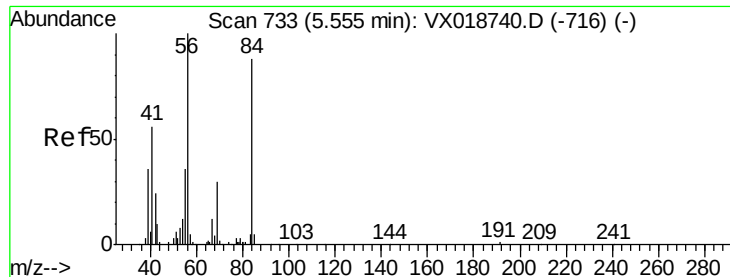


#29

1,1,1-Trichloroethane
Concen: 2050.168 ug/L m
RT: 5.46 min Scan# 718
Delta R.T. 0.00 min
Lab File: VX018759.D
Acq: 02 Oct 2020 19:54

Tgt Ion: 97 Resp:76286711
Ion Ratio Lower Upper
97 100
99 0.0 51.3 76.9#
61 0.0 33.3 49.9#





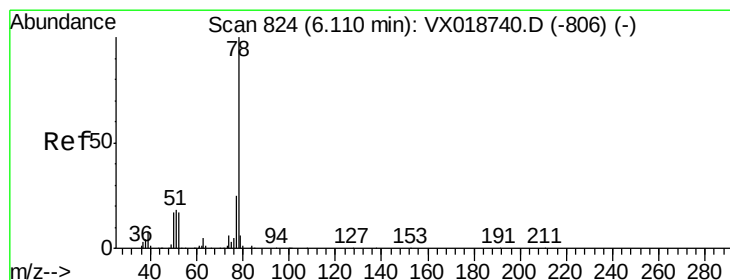
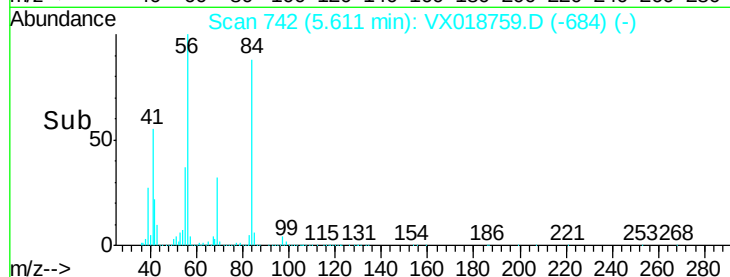
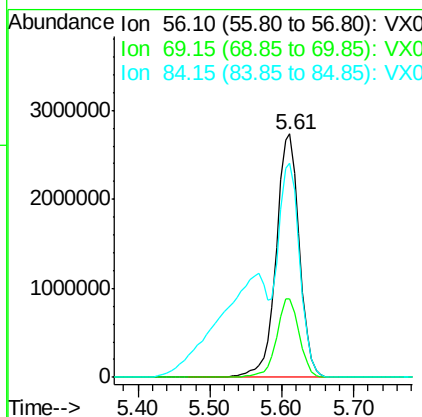
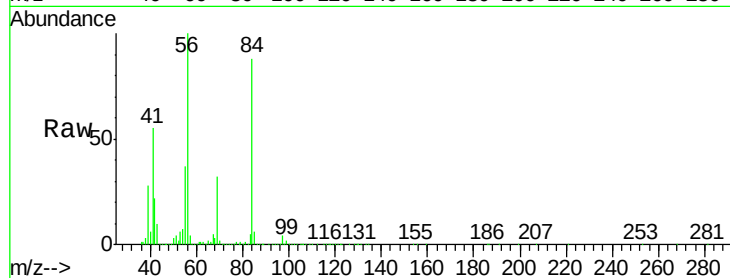
#30
Cyclohexane
Concen: 235.640 ug/L
RT: 5.61 min Scan# 742
Delta R.T. 0.06 min
Lab File: VX018759.D
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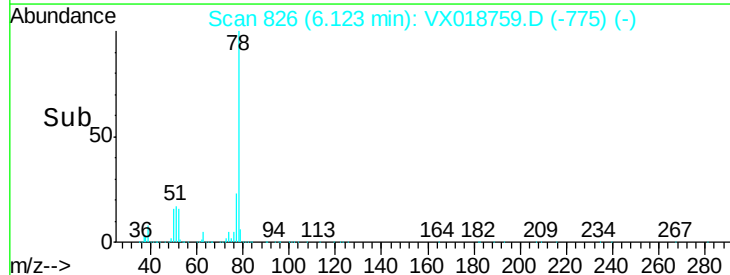
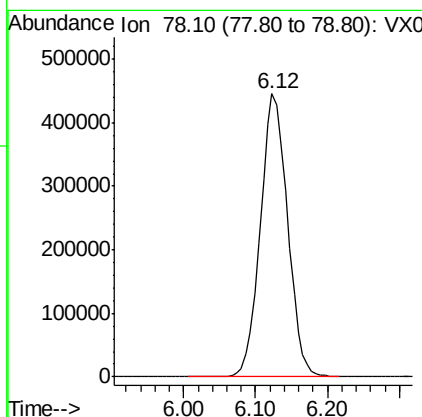
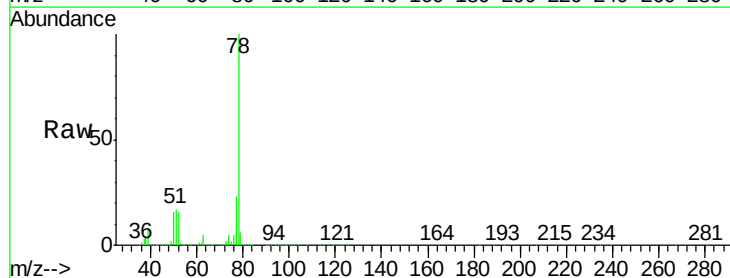
Tot Ion: 56 Resp: 6081352
Ion Ratio Lower Upper
56 100
69 32.0 26.0 39.0
84 84.6 73.8 110.6

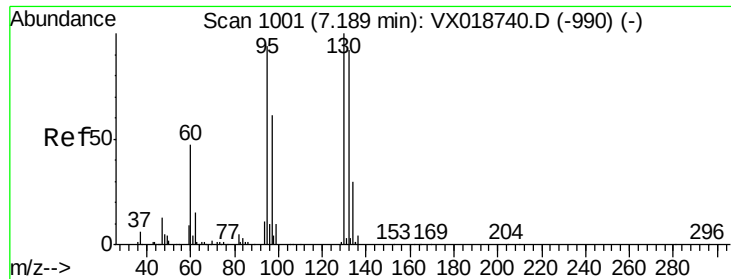
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#33
Benzene
Concen: 17.781 ug/L
RT: 6.12 min Scan# 826
Delta R.T. 0.01 min
Lab File: VX018759.D
Acq: 02 Oct 2020 19:54
Tgt Ion: 78 Resp: 1171217





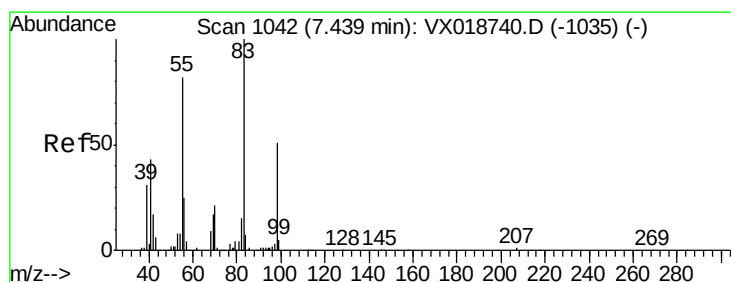
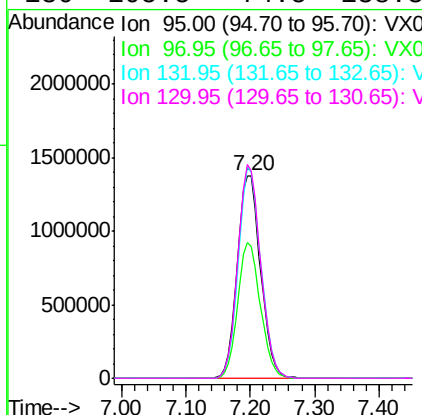
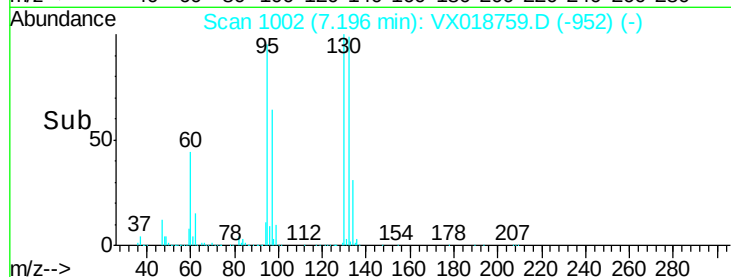
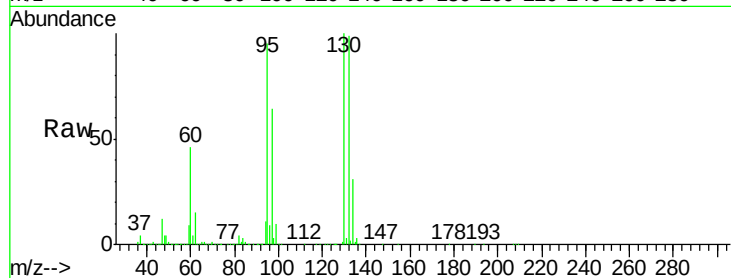
#34
 Trichloroethene
 Concen: 177.566 ug/L
 RT: 7.20 min Scan# 1002
 Delta R.T. 0.01 min
 Lab File: VX018759.D
 Acq: 02 Oct 2020 19:54

Instrument :
 MSVOA_X
 ClientSampled :
 BG3N6

Tot Ion	Ratio	Lower	Upper
95	100		
97	67.3	45.3	84.1
132	104.3	68.6	127.4
130	105.5	74.5	138.3

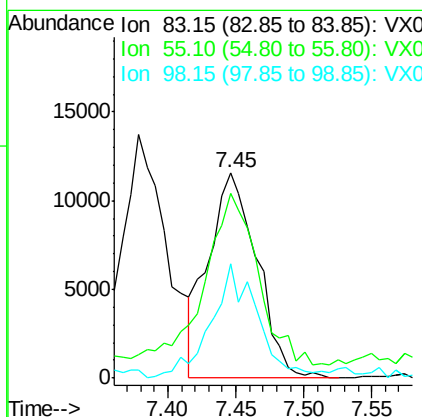
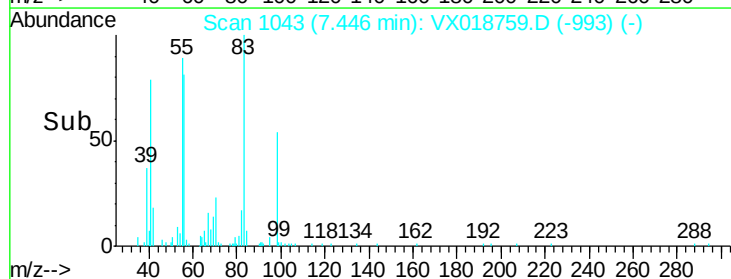
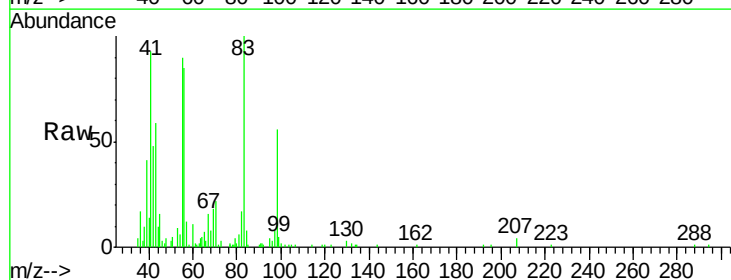
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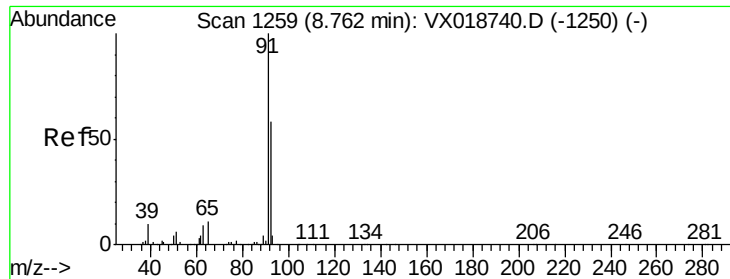
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#35
 Methylcyclohexane
 Concen: 1.044 ug/L
 RT: 7.45 min Scan# 1043
 Delta R.T. 0.01 min
 Lab File: VX018759.D
 Acq: 02 Oct 2020 19:54

Tgt Ion	Ratio	Lower	Upper
83	100		
55	107.5	60.3	90.5#
98	52.8	39.4	59.0





#42

Toluene

Concen: 1530.162 ug/L m

RT: 8.84 min Scan# 1271

Delta R.T. 0.07 min

Lab File: VX018759.D

Acq: 02 Oct 2020 19:54

Instrument :

MSVOA_X

ClientSampleId :

BG3N6

Tot Ion: 91 Resp: 11028716

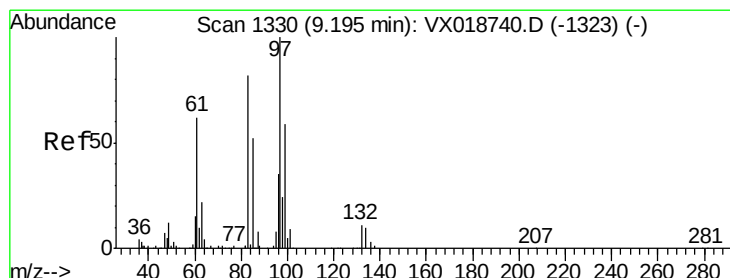
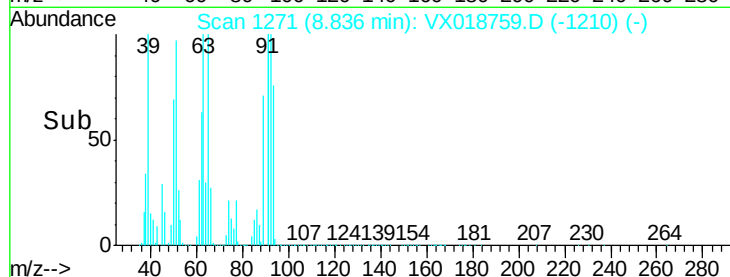
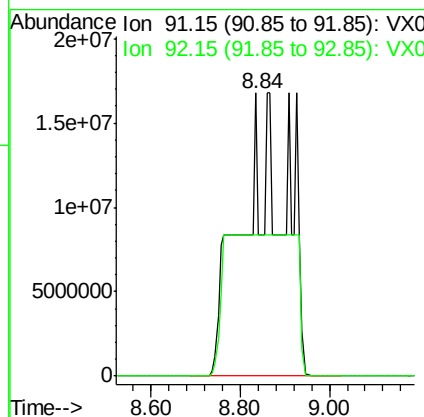
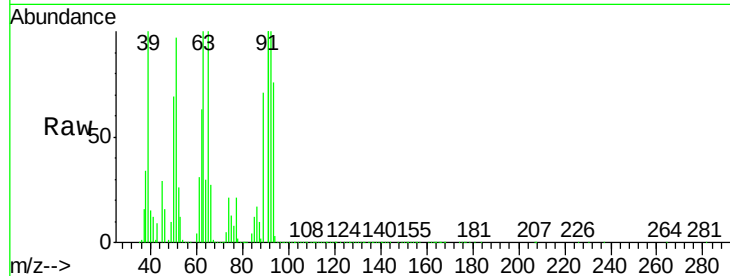
Ion Ratio Lower Upper

91 100

92 100.0 40.3 74.9#

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#47

1,1,2-Trichloroethane

Concen: 2.383 ug/L

RT: 9.21 min Scan# 1333

Delta R.T. 0.02 min

Lab File: VX018759.D

Acq: 02 Oct 2020 19:54

Tgt Ion: 97 Resp: 29681

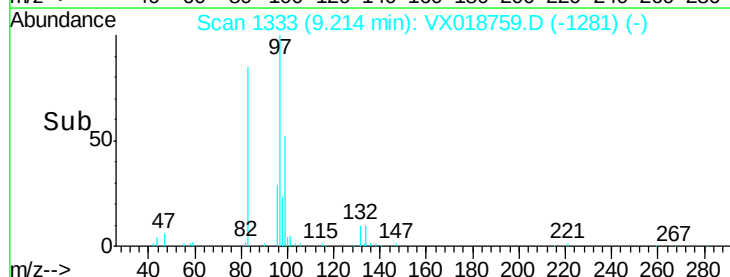
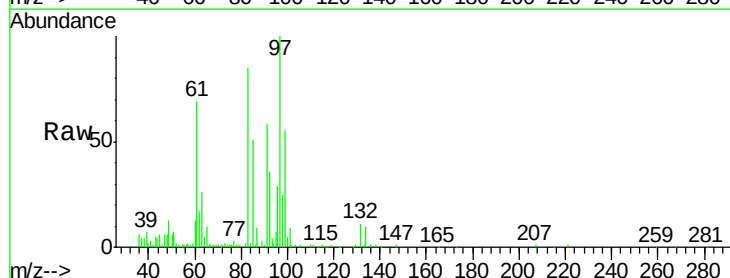
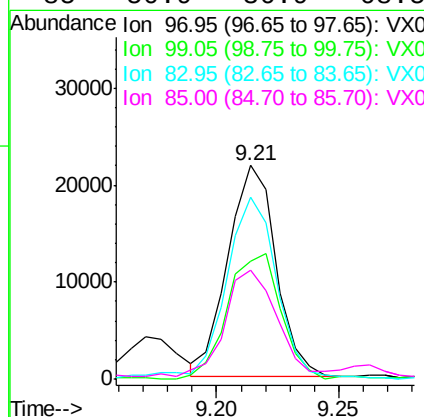
Ion Ratio Lower Upper

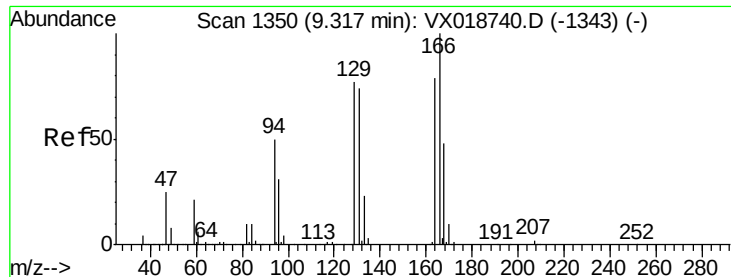
97 100

99 55.2 41.1 76.3

83 85.0 57.5 106.7

85 50.9 36.9 68.5





#49

Tetrachloroethene

Concen: 0.838 ug/L

RT: 9.34 min Scan# 1353

Delta R.T. 0.02 min

Lab File: VX018759.D

Acq: 02 Oct 2020 19:54

Instrument :

MSVOA_X

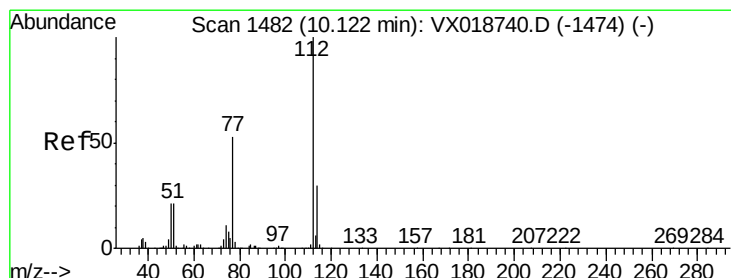
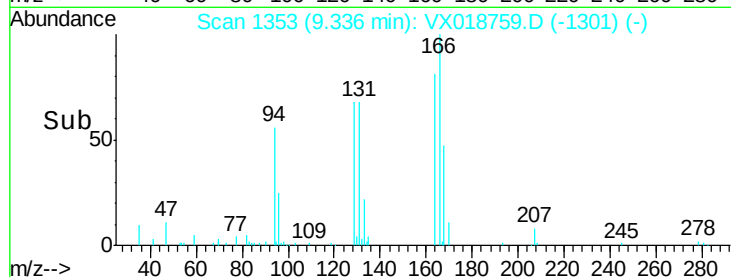
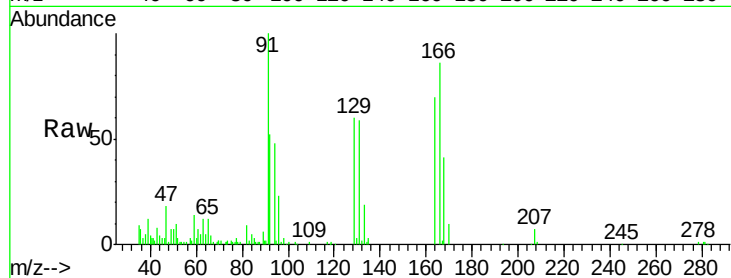
ClientSampleId :

BG3N6

Tot Ion:	164	Resp:	14243
Ion Ratio	Lower	Upper	
164	100		
129	85.5	68.7	127.5
131	84.6	65.3	121.3
166	123.7	88.5	164.4

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#53

Chlorobenzene

Concen: 17.005 ug/L

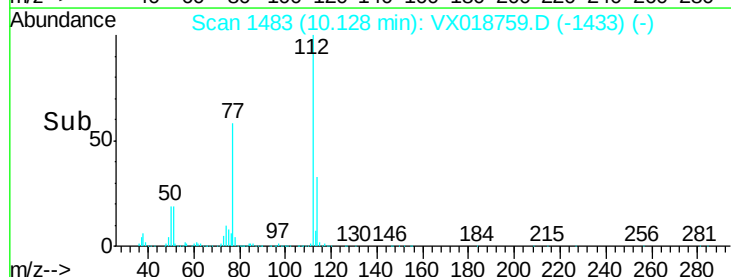
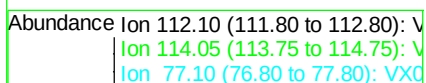
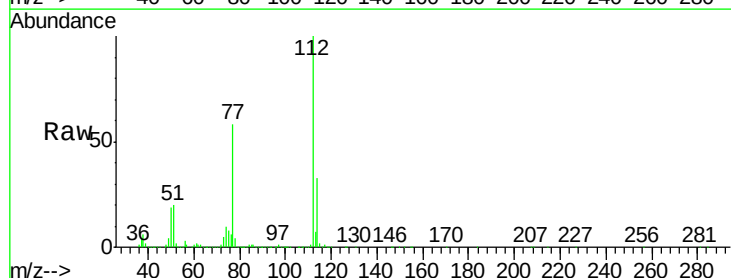
RT: 10.13 min Scan# 1483

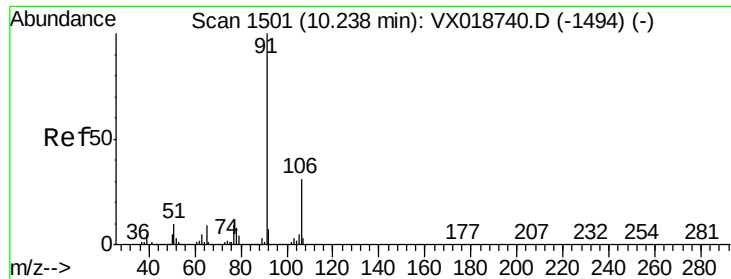
Delta R.T. 0.01 min

Lab File: VX018759.D

Acq: 02 Oct 2020 19:54

Tgt Ion:	112	Resp:	838378
Ion Ratio	Lower	Upper	
112	100		
114	32.6	21.3	39.5
77	58.1	42.4	63.6





#54

Ethylbenzene

Concen: 186.855 ug/L

RT: 10.24 min Scan# 1501

Delta R.T. 0.00 min

Lab File: VX018759.D

Acq: 02 Oct 2020 19:54

Instrument :

MSVOA_X

ClientSampleId :

BG3N6

Tot Ion: 91 Resp:15097143

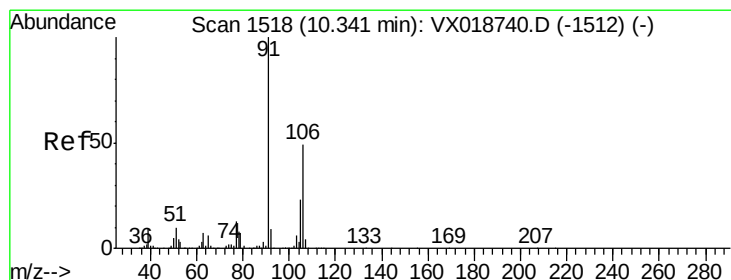
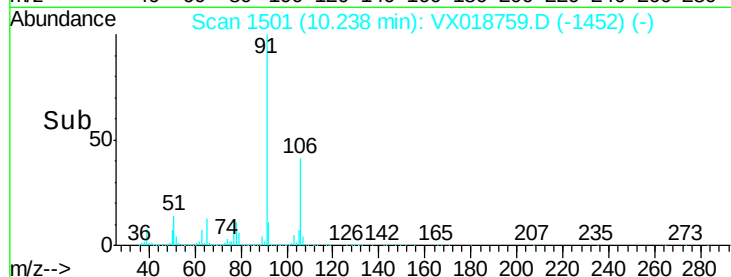
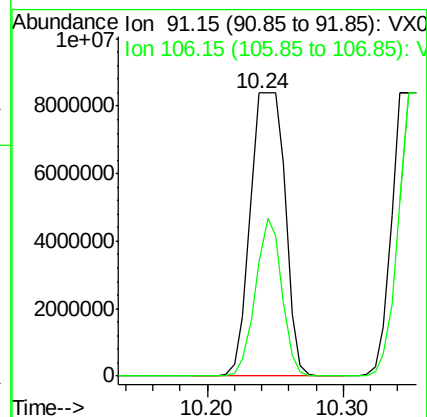
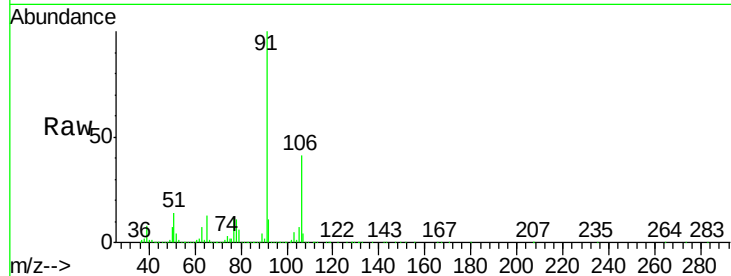
Ion Ratio Lower Upper

91 100

106 40.6 21.5 39.9#

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#55

m,p-xylene

Concen: 556.470 ug/L m

RT: 10.35 min Scan# 1519

Delta R.T. 0.01 min

Lab File: VX018759.D

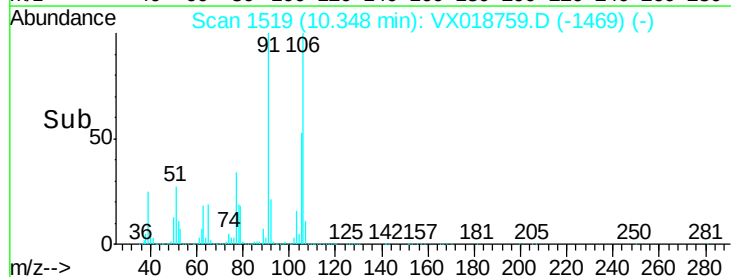
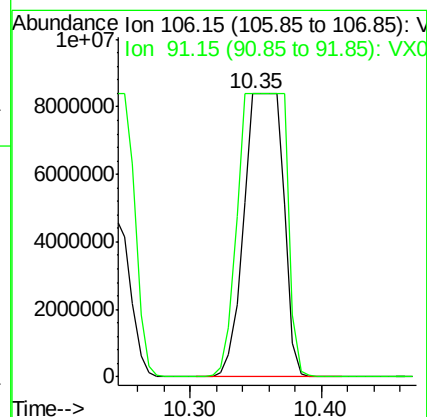
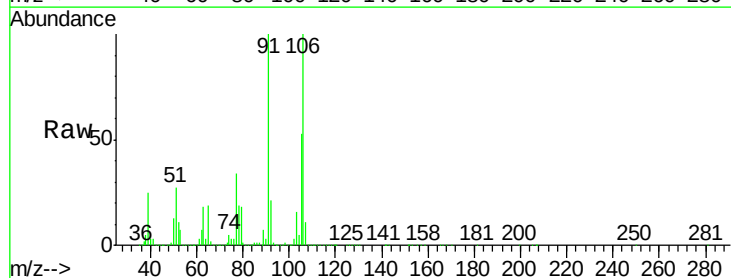
Acq: 02 Oct 2020 19:54

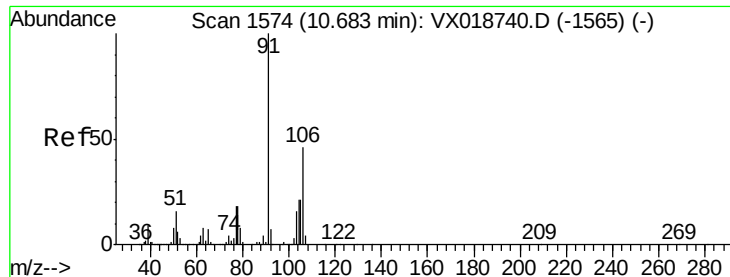
Tgt Ion:106 Resp:17537531

Ion Ratio Lower Upper

106 100

91 100.0 143.4 266.2#





#56

o-xylene

Concen: 483.570 ug/L

RT: 10.70 min Scan# 1576

Delta R.T. 0.01 min

Lab File: VX018759.D

Acq: 02 Oct 2020 19:54

Instrument :

MSVOA_X

ClientSampleId :

BG3N6

Tot Ion:106 Resp:14083704

Ion Ratio Lower Upper

106 100

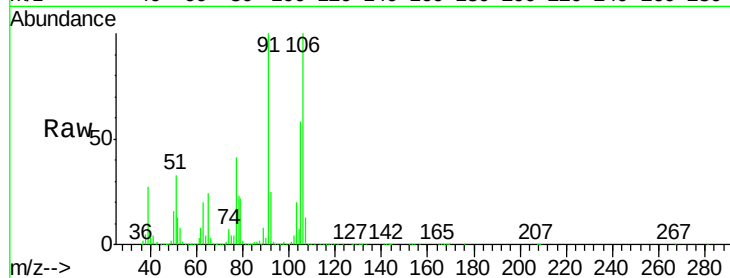
91 100.0 153.4 284.8#

Manual Integrations

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Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0

10.70

8000000

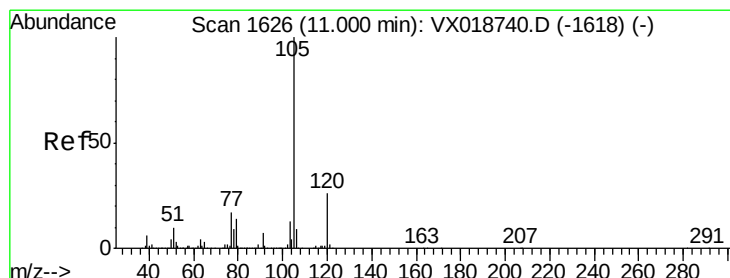
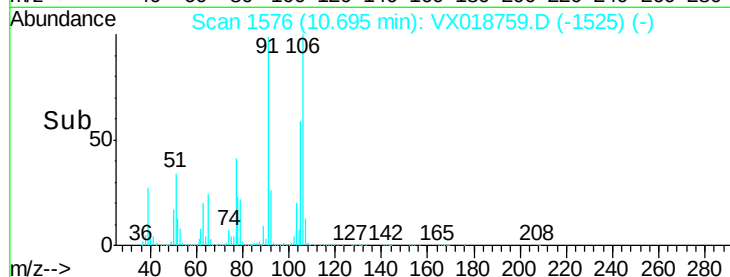
6000000

4000000

2000000

0

Time-->



#58

Isopropylbenzene

Concen: 69.435 ug/L

RT: 11.01 min Scan# 1627

Delta R.T. 0.01 min

Lab File: VX018759.D

Acq: 02 Oct 2020 19:54

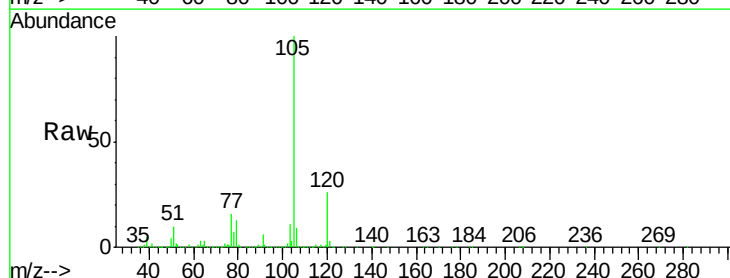
Tgt Ion:105 Resp: 5661438

Ion Ratio Lower Upper

105 100

120 26.5 20.2 30.2

77 16.0 13.3 19.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VX0

6000000

5000000

4000000

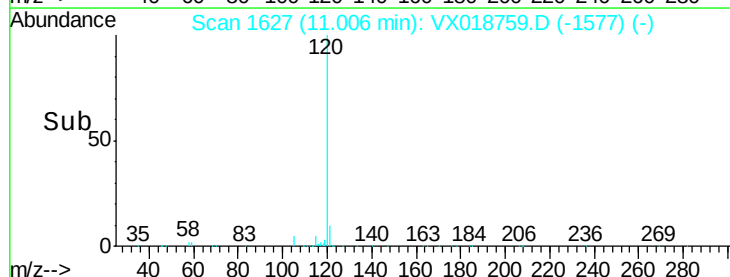
3000000

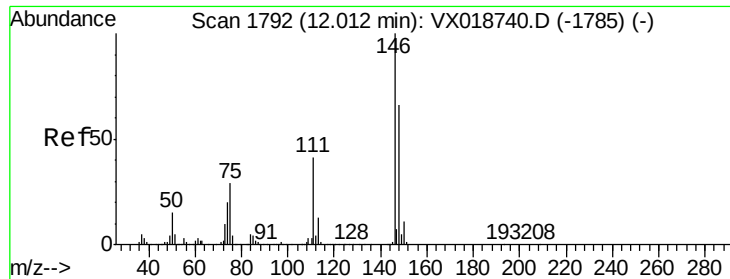
2000000

1000000

0

Time-->





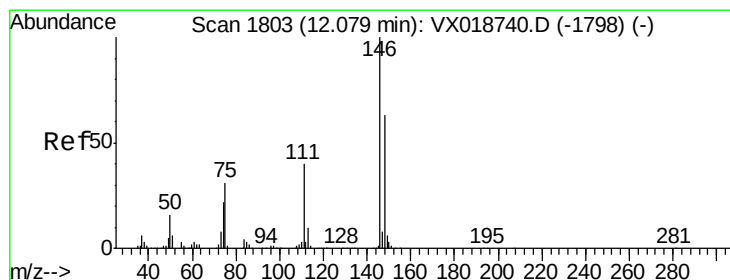
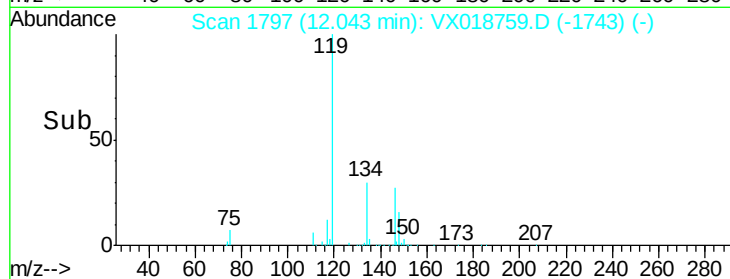
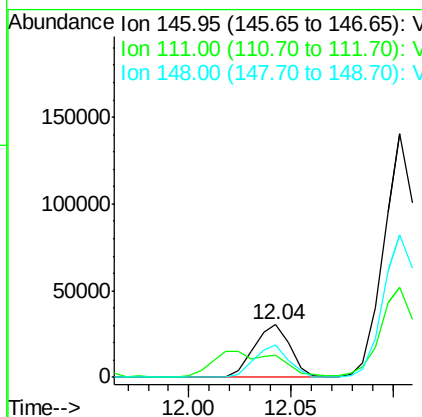
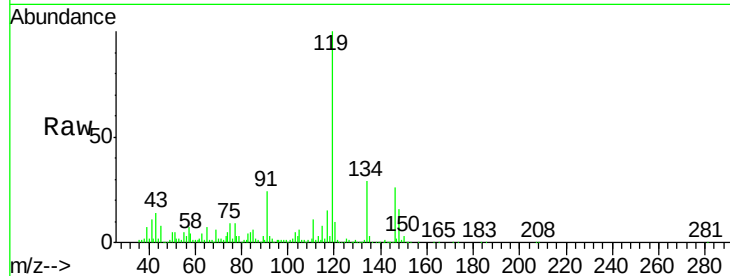
#63
 1,3-Dichlorobenzene
 Concen: 0.943 ug/L
 RT: 12.04 min Scan# 1797
 Delta R.T. 0.03 min
 Lab File: VX018759.D
 Acq: 02 Oct 2020 19:54

Instrument :
 MSVOA_X
 ClientSampled :
 BG3N6

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.7	28.4	52.8
148	61.5	45.9	85.3

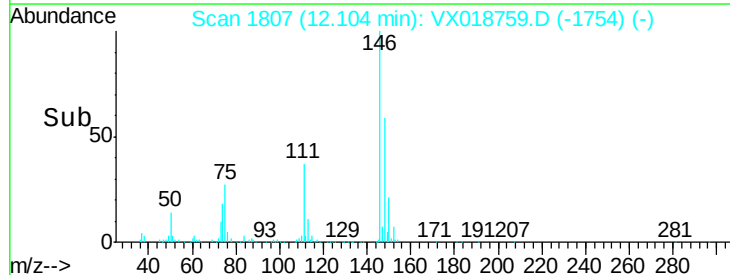
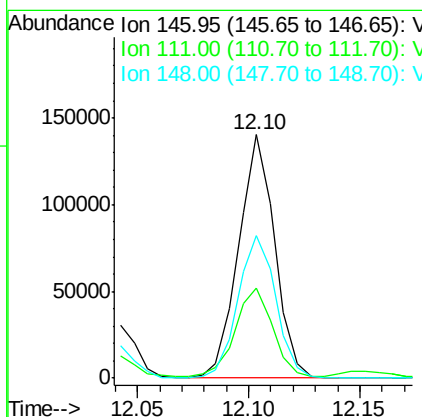
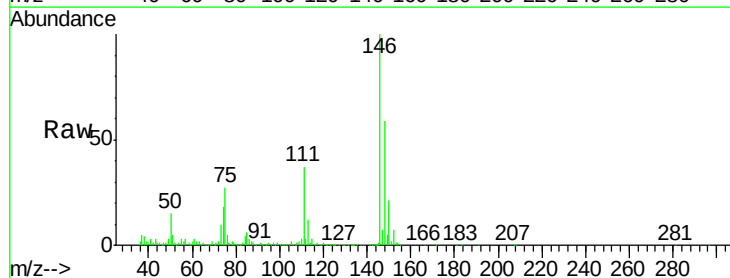
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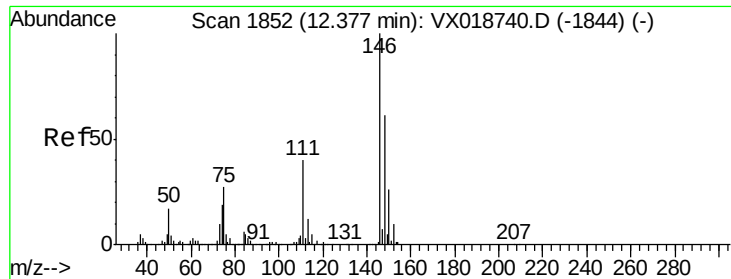
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#64
 1,4-Dichlorobenzene
 Concen: 3.978 ug/L
 RT: 12.10 min Scan# 1807
 Delta R.T. 0.02 min
 Lab File: VX018759.D
 Acq: 02 Oct 2020 19:54

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.2	28.6	53.2
148	58.7	44.2	82.0





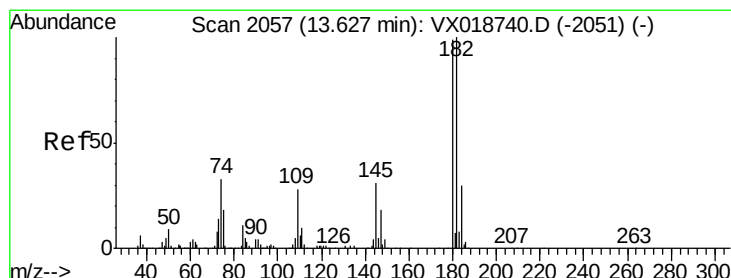
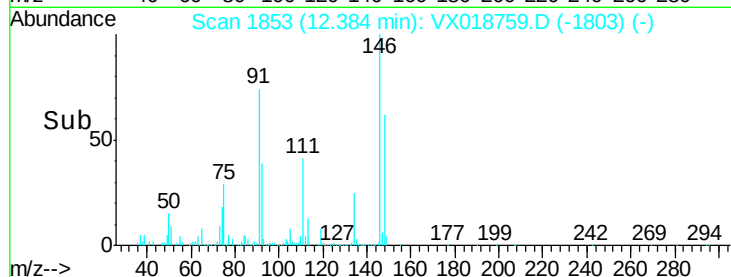
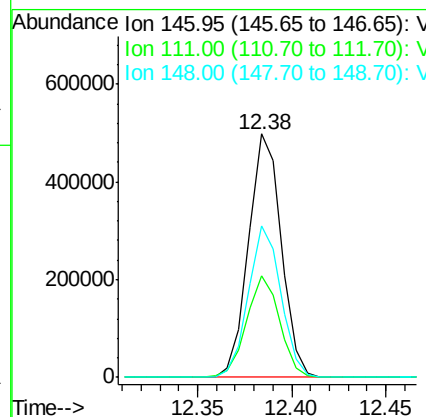
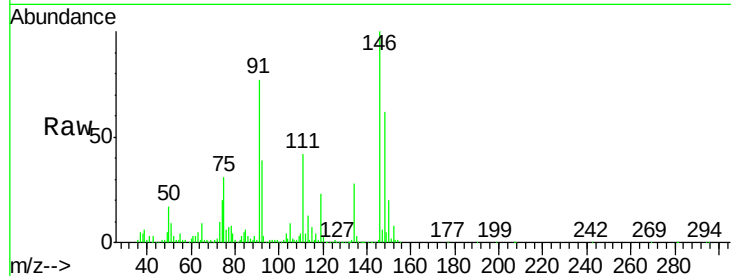
#66
 1,2-Dichlorobenzene
 Concen: 16.125 ug/L
 RT: 12.38 min Scan# 1853
 Delta R.T. 0.01 min
 Lab File: VX018759.D
 Acq: 02 Oct 2020 19:54

Instrument :
 MSVOA_X
 ClientSampled :
 BG3N6

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.6	31.7	47.5
148	62.2	49.0	73.6

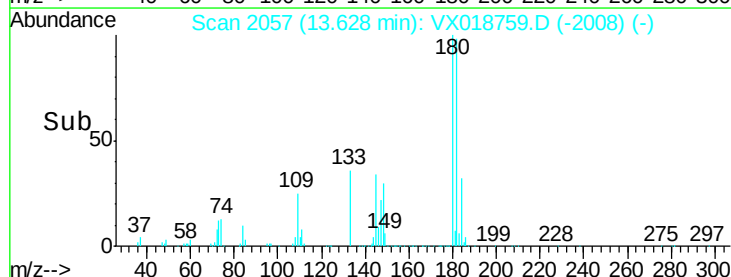
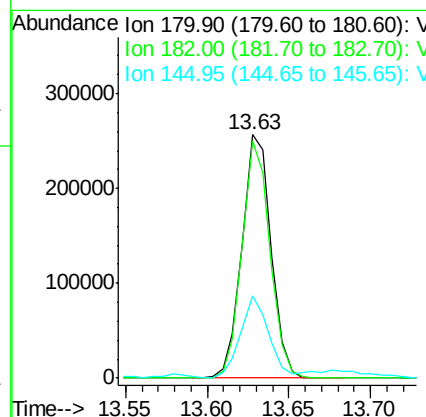
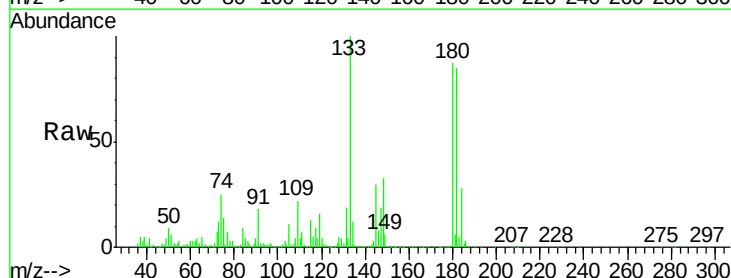
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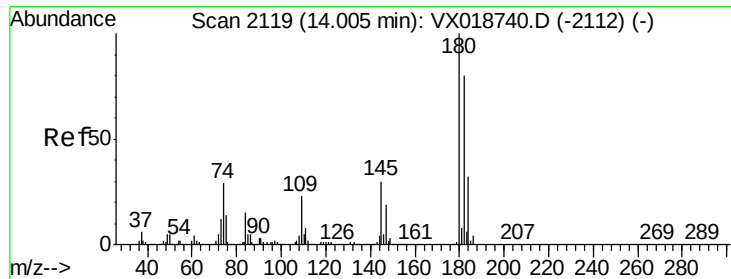
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#69
 1,2,4-trichlorobenzene
 Concen: 12.512 ug/L
 RT: 13.63 min Scan# 2057
 Delta R.T. 0.00 min
 Lab File: VX018759.D
 Acq: 02 Oct 2020 19:54

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.9	80.2	120.4
145	33.5	25.2	37.8





#71
 1,2,3-Trichlorobenzene
 Concen: 4.077 ug/L
 RT: 14.01 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VX018759.D
 Acq: 02 Oct 2020 19:54

Instrument :
 MSVOA_X
 ClientSampleId :
 BG3N6

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.5	73.6	110.4
145	38.3	26.6	40.0

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