

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX100220\
 Data File : VX018757.D
 Acq On : 02 Oct 2020 19:05
 Operator : JC/SP
 Sample : L4239-04
 Misc : 25.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BG3N3

Manual Integrations
 APPROVED

MMDadoda
 10/6/2020 1:25:33 PM

Quant Time: Oct 03 07:45:14 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	284524	5.00	ug/L	0.00
28) Chlorobenzene-d5	10.10	117	274277	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	12.07	152	138432	5.00	ug/L	0.01

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	92229	5.55	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	111.00%
7) Chloroethane-d5	1.70	69	70467	5.42	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	108.40%
11) 1,1-Dichloroethene-d2	2.35	63	719142	19.18	ug/L	0.01
Spiked Amount	5.000	Range	60 - 125	Recovery	=	383.60%#
20) 2-Butanone-d5	4.59	46	232328	53.29	ug/L	0.04
Spiked Amount	50.000	Range	40 - 130	Recovery	=	106.58%
24) Chloroform-d	5.15	84	178668	4.44	ug/L	0.01
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.80%
26) 1,2-Dichloroethane-d4	6.04	65	107532	4.38	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.60%
32) Benzene-d6	6.06	84	347595	5.10	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.00%
36) 1,2-Dichloropropane-d6	7.38	67	105232	5.34	ug/L	0.01
Spiked Amount	5.000	Range	60 - 140	Recovery	=	106.80%
41) Toluene-d8	8.73	98	346666m	5.16	ug/L	0.03
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.20%
45) trans-1,3-Dichloropropene-	9.01	79	46985	4.43	ug/L	0.02
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.60%
48) 2-Hexanone-d5	9.43	63	200726	56.49	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	112.98%
59) 1,1,2,2-Tetrachloroethane-	11.24	84	79679	4.97	ug/L	0.01
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.40%
65) 1,2-Dichlorobenzene-d4	12.37	152	136317	5.34	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	106.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
8) Chloroethane	1.71	64	31588	3.392	ug/L #	63
10) 1,1,2-Trichloro-1,2,2-trif	2.37	101	5596	0.350	ug/L #	61
12) 1,1-Dichloroethene	2.35	96	1024075	72.254	ug/L #	60
13) Acetone	2.45	43	69756	29.308	ug/L	100
14) Carbon disulfide	2.56	76	110310	2.487	ug/L	99
18) trans-1,2-Dichloroethene	3.15	96	321582	21.190	ug/L	95
19) 1,1-Dichloroethane	3.67	63	1695279	62.837	ug/L	96
21) 2-Butanone	4.67	43	71958	20.768	ug/L	93
22) cis-1,2-Dichloroethene	4.56	96	36564870m	2336.290	ug/L	
29) 1,1,1-Trichloroethane	5.46	97	64392152m	1984.554	ug/L	
30) Cyclohexane	5.59	56	1556940	69.185	ug/L	90
33) Benzene	6.12	78	522286	9.093	ug/L	100
34) Trichloroethene	7.20	95	36297	2.140	ug/L	88
42) Toluene	8.83	91	80964942m	1288.246	ug/L	
47) 1,1,2-Trichloroethane	9.21	97	15927	1.467	ug/L	97
49) Tetrachloroethene	9.33	164	5037	0.340	ug/L	83
53) Chlorobenzene	10.12	112	623544	14.504	ug/L	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Ethylbenzene	10.24	91	6111907	86.751	ug/L	99
55) m,p-xylene	10.35	106	7390037	268.911	ug/L	65
56) o-xylene	10.69	106	4986532	196.350	ug/L	94
58) Isopropylbenzene	11.01	105	870978	12.250	ug/L	98
63) 1,3-Dichlorobenzene	12.03	146	45632	1.356	ug/L	93
64) 1,4-Dichlorobenzene	12.09	146	176762	5.268	ug/L	96
66) 1,2-Dichlorobenzene	12.38	146	308419	9.817	ug/L	99
69) 1,2,4-trichlorobenzene	13.63	180	196083	9.120	ug/L	96
71) 1,2,3-Trichlorobenzene	14.01	180	105067	5.431	ug/L	97

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

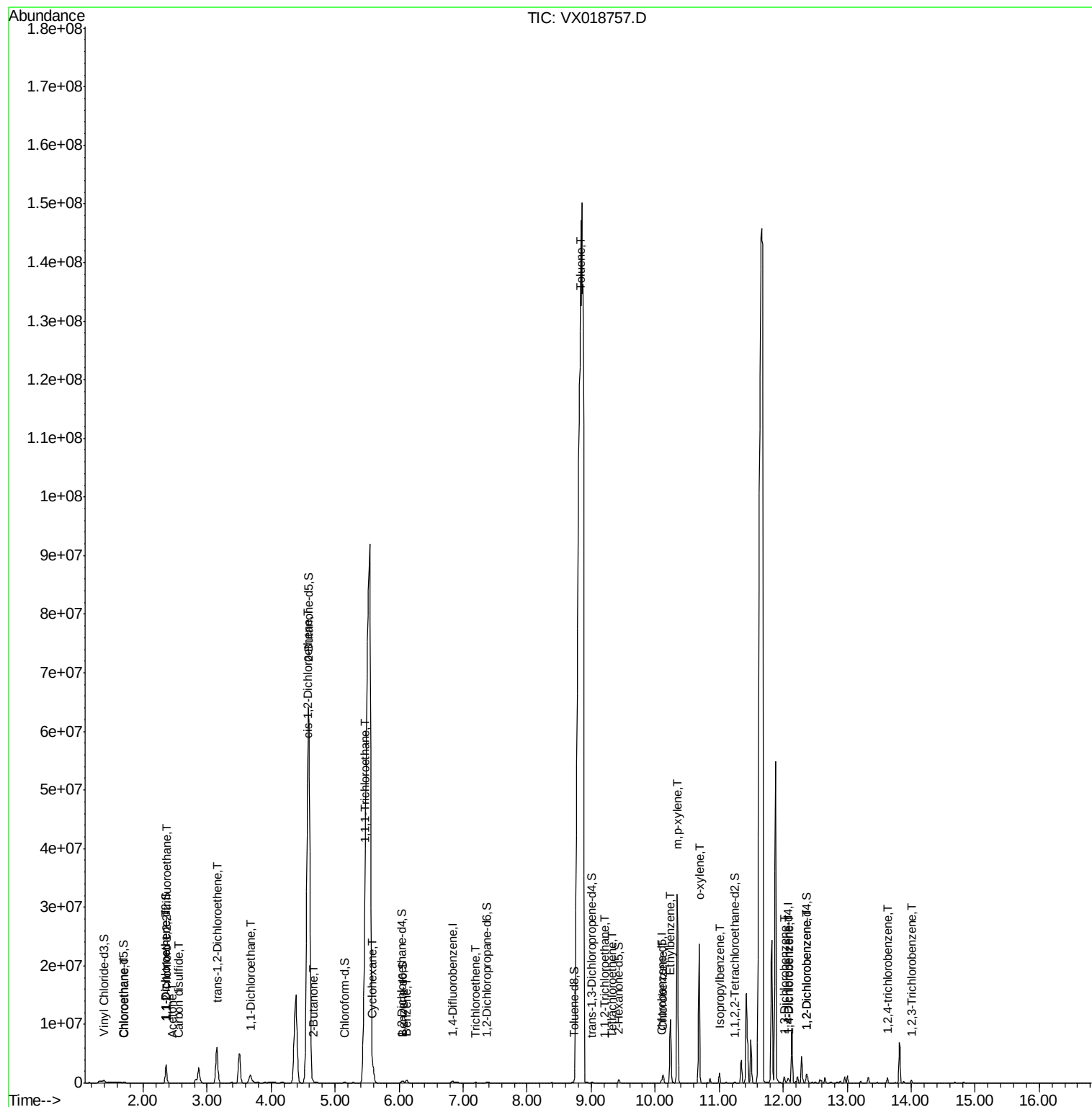
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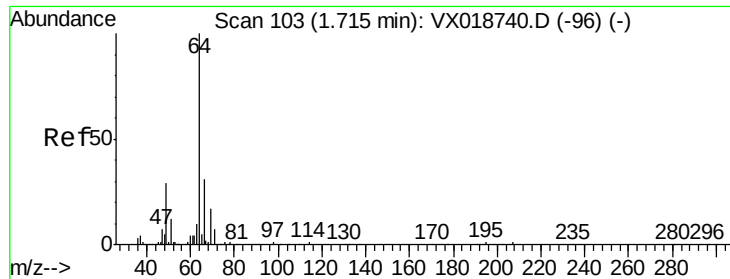
Instrument :
MSVOA_X
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#8

Chloroethane

Concen: 3.392 ug/L

RT: 1.71 min Scan# 103

Delta R.T. 0.00 min

Lab File: VX018757.D

Acq: 02 Oct 2020 19:05

Instrument :

MSVOA_X

ClientSampled :

BG3N3

Tot Ion: 64 Resp: 31588

Ion Ratio Lower Upper

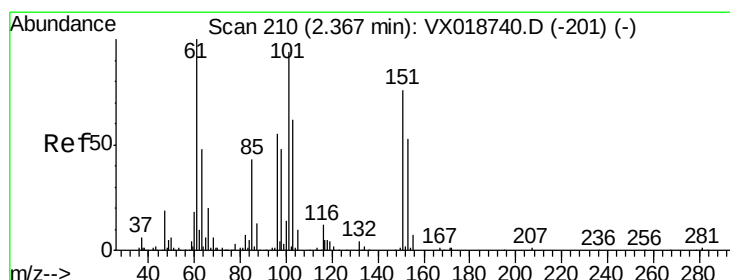
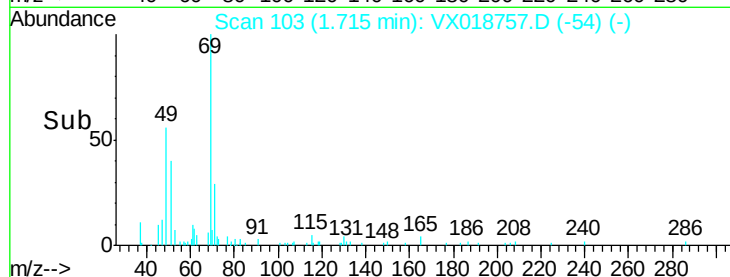
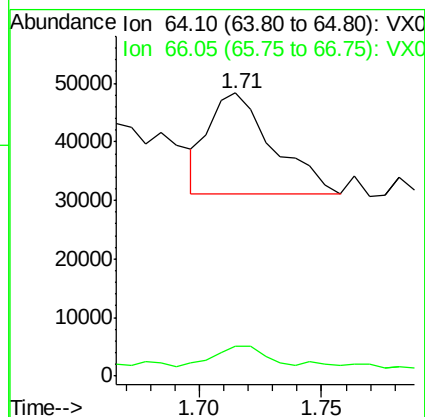
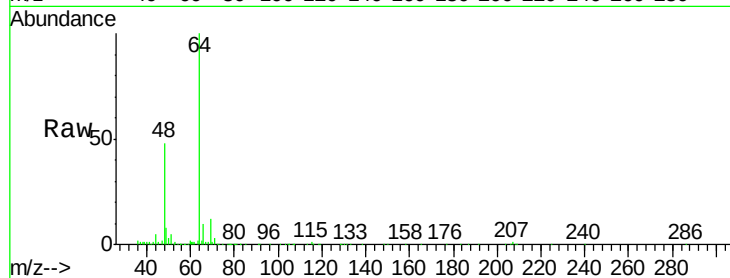
64 100

66 10.4 21.5 39.9#

Manual Integrations
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#10

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

Concen: 0.350 ug/L

RT: 2.37 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX018757.D

Acq: 02 Oct 2020 19:05

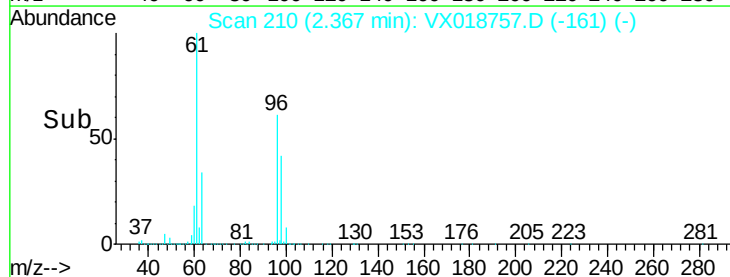
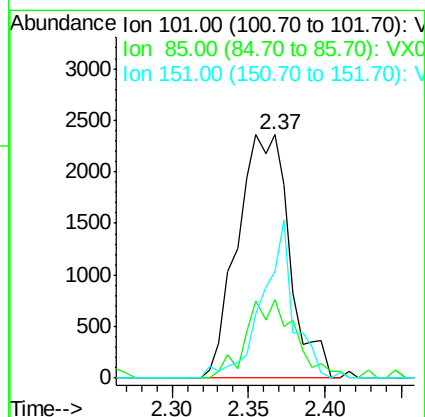
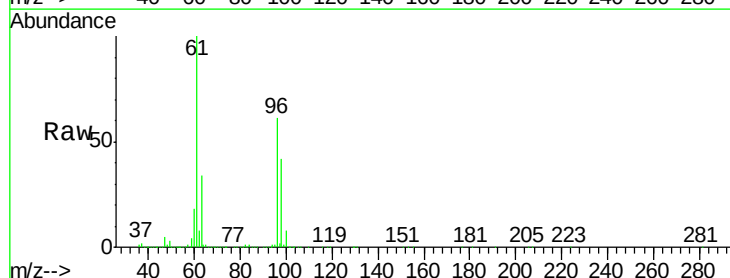
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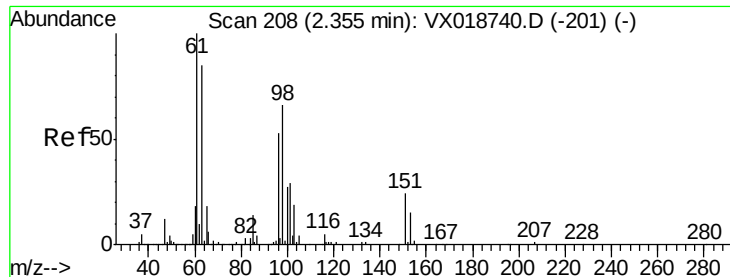
Ion Ratio Lower Upper

101 100

85 30.0 37.1 55.7#

151 39.5 65.0 97.6#





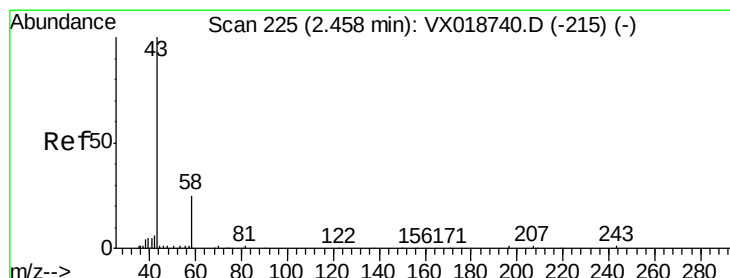
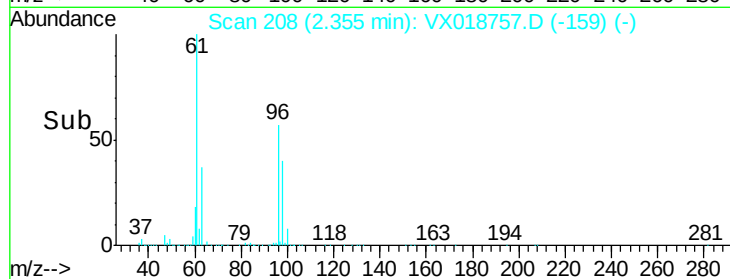
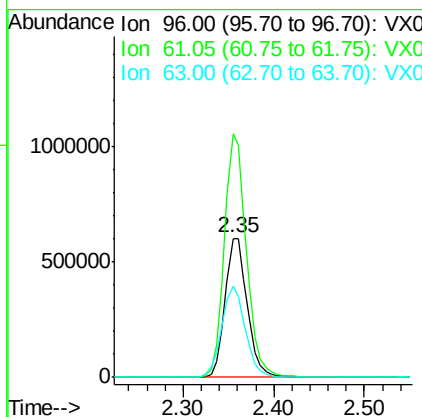
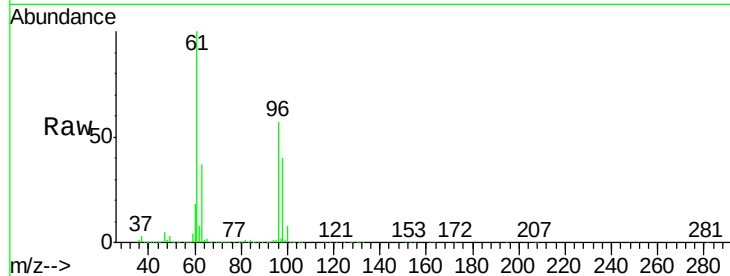
#12
 1,1-Dichloroethene
 Concen: 72.254 ug/L
 RT: 2.35 min Scan# 208
 Delta R.T. 0.00 min
 Lab File: VX018757.D
 Acq: 02 Oct 2020 19:05

Instrument :
 MSVOA_X
 ClientSampled :
 BG3N3

Tot Ion	Ratio	Lower	Upper
96	100		
61	175.3	133.2	247.4
63	65.6	115.1	213.7

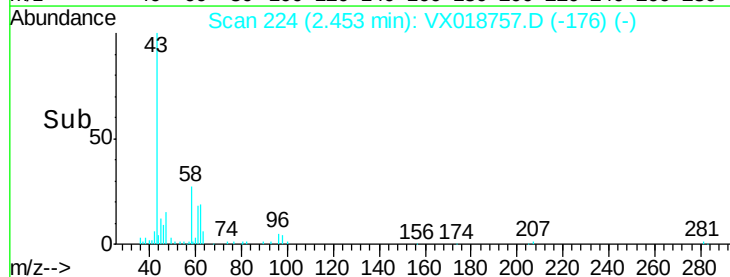
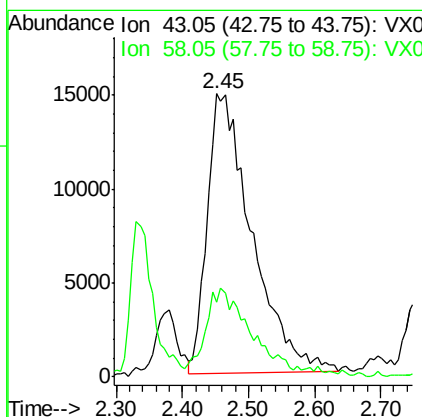
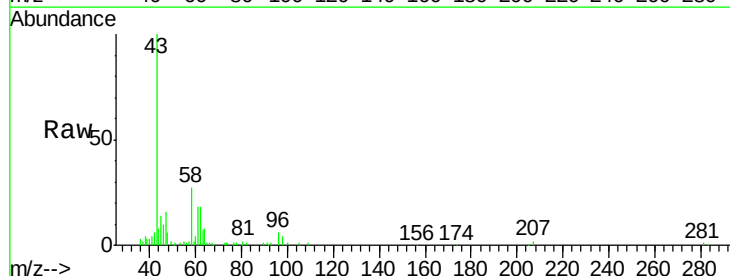
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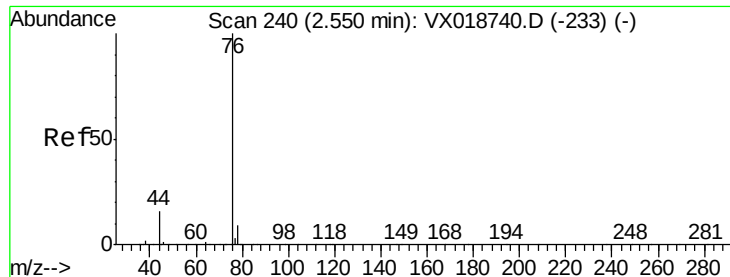
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#13
 Acetone
 Concen: 29.308 ug/L
 RT: 2.45 min Scan# 224
 Delta R.T. -0.01 min
 Lab File: VX018757.D
 Acq: 02 Oct 2020 19:05

Tgt Ion	Ratio	Lower	Upper
43	100		
58	28.1	0.0	56.4





#14

Carbon disulfide

Concen: 2.487 ug/L

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX018757.D

Acq: 02 Oct 2020 19:05

Instrument :

MSVOA_X

ClientSampled :

BG3N3

Tot Ion: 76 Resp: 110310

Ion Ratio Lower Upper

76 100

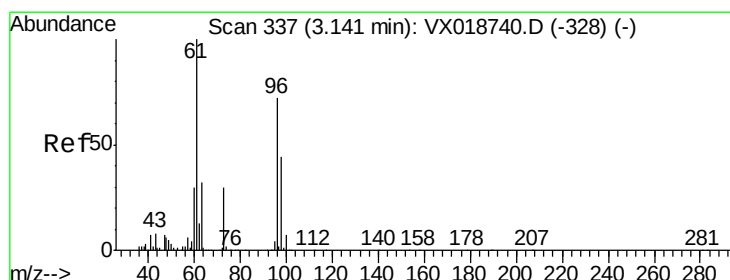
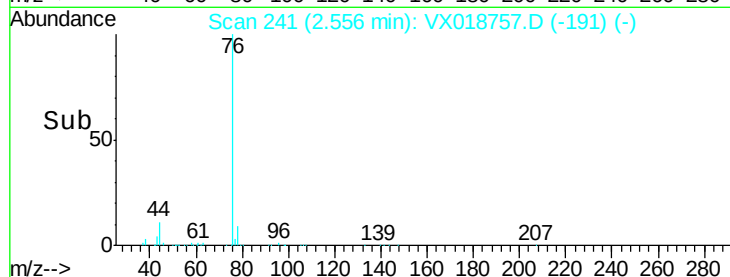
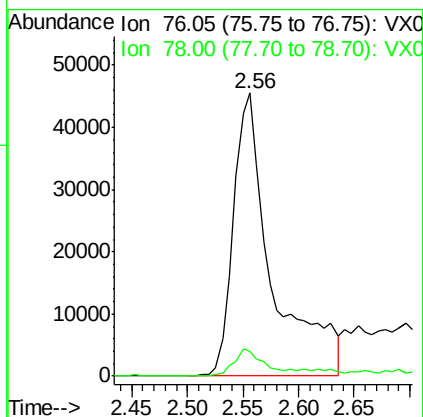
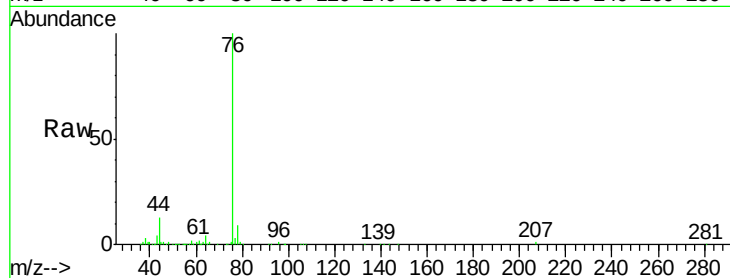
78 9.0 7.4 11.2

Manual Integrations

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#18

trans-1,2-Dichloroethene

Concen: 21.190 ug/L

RT: 3.15 min Scan# 338

Delta R.T. 0.01 min

Lab File: VX018757.D

Acq: 02 Oct 2020 19:05

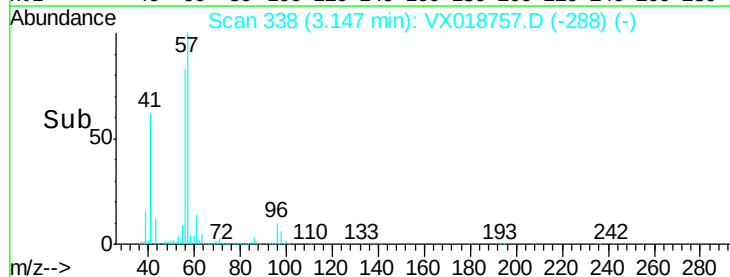
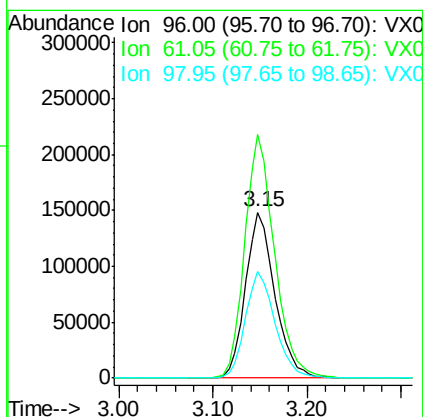
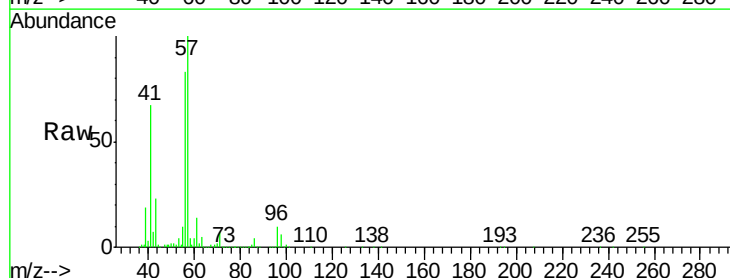
Tgt Ion: 96 Resp: 321582

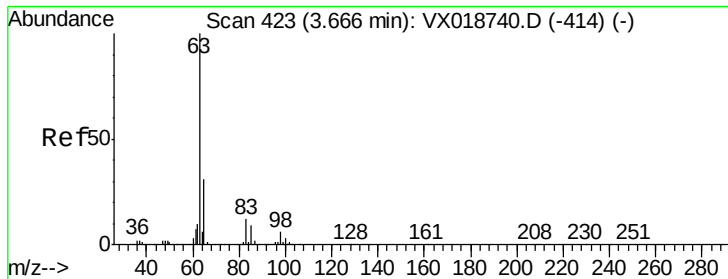
Ion Ratio Lower Upper

96 100

61 147.1 97.6 181.4

98 64.1 43.1 80.1





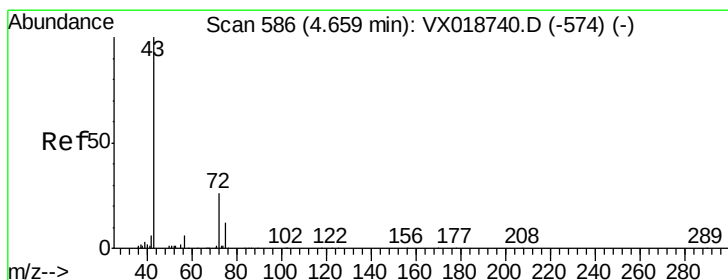
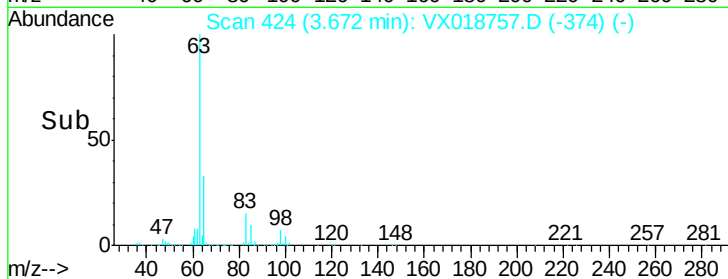
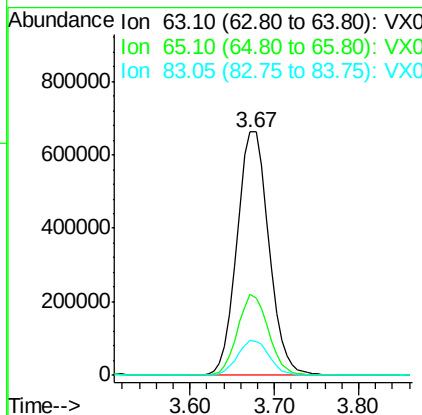
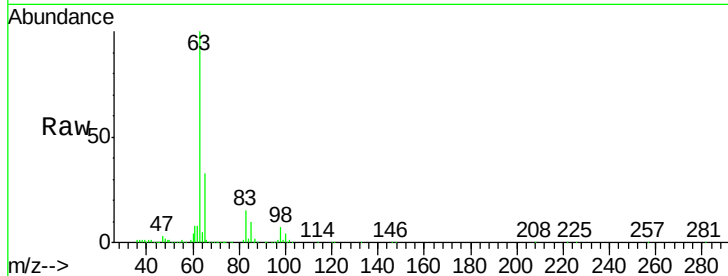
#19
 1,1-Dichloroethane
 Concen: 62.837 ug/L
 RT: 3.67 min Scan# 424
 Delta R.T. 0.01 min
 Lab File: VX018757.D
 Acq: 02 Oct 2020 19:05

Instrument :
 MSVOA_X
 ClientSampleId :
 BG3N3

Tot Ion:	63	Resp:	1695279
Ion	Ratio	Lower	Upper
63	100		
65	33.0	21.6	40.2
83	14.6	8.7	16.1

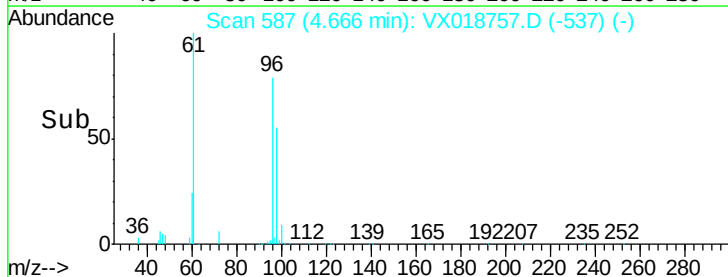
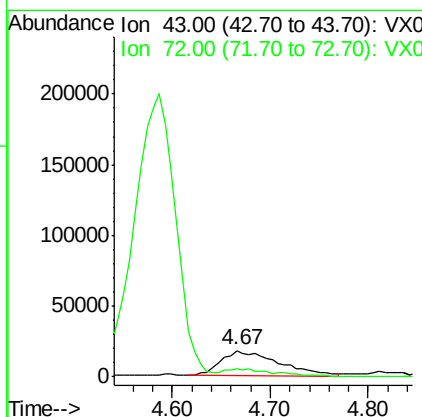
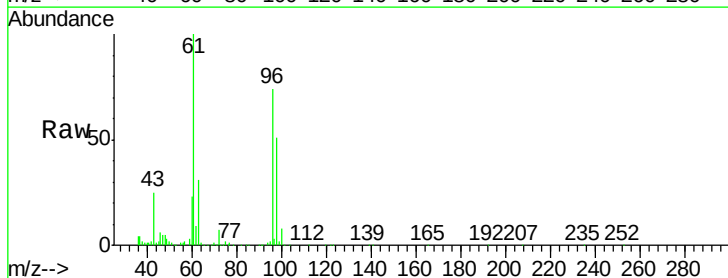
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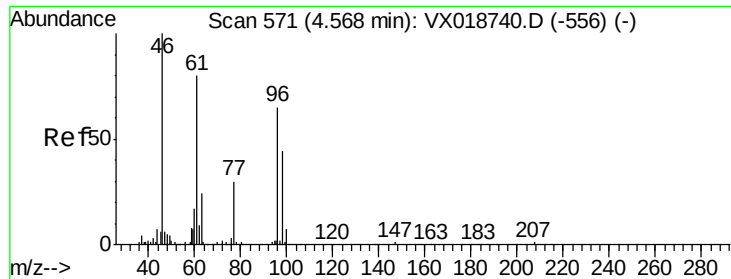
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#21
 2-Butanone
 Concen: 20.768 ug/L
 RT: 4.67 min Scan# 587
 Delta R.T. 0.01 min
 Lab File: VX018757.D
 Acq: 02 Oct 2020 19:05

Tgt Ion:	43	Resp:	71958
Ion	Ratio	Lower	Upper
43	100		
72	28.4	12.4	37.2





#22

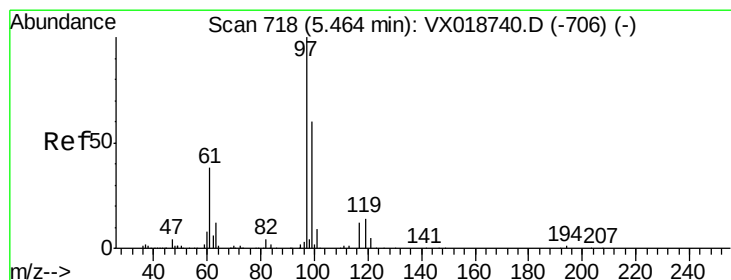
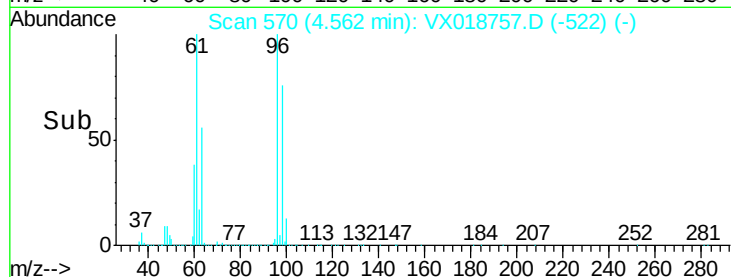
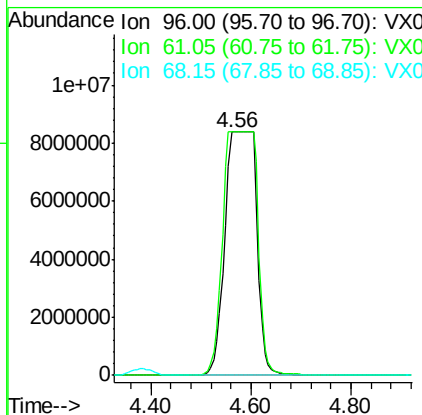
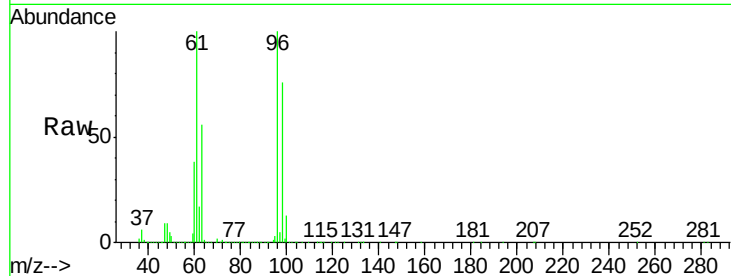
cis-1,2-Dichloroethene
 Concen: 2336.290 ug/L m
 RT: 4.56 min Scan# 570
 Delta R.T. -0.01 min
 Lab File: VX018757.D
 Acq: 02 Oct 2020 19:05

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Tot Ion: 96 Resp:36564870
 Ion Ratio Lower Upper
 96 100
 61 100.0 86.2 160.0
 68 0.0 0.3 0.7#

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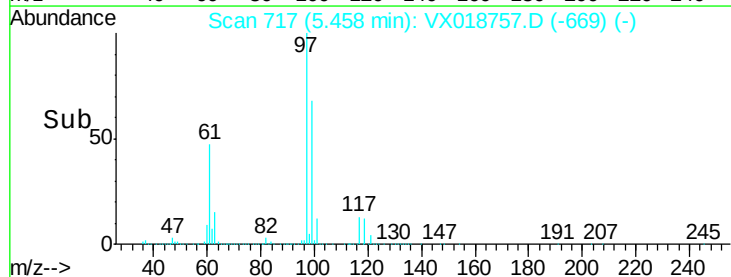
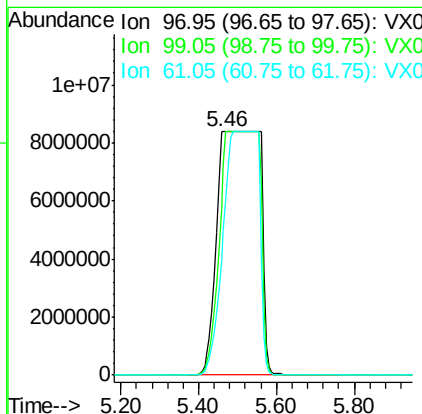
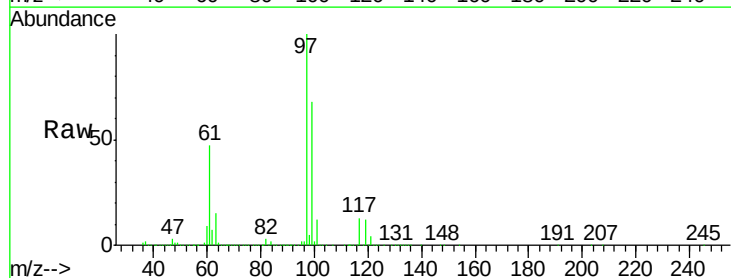
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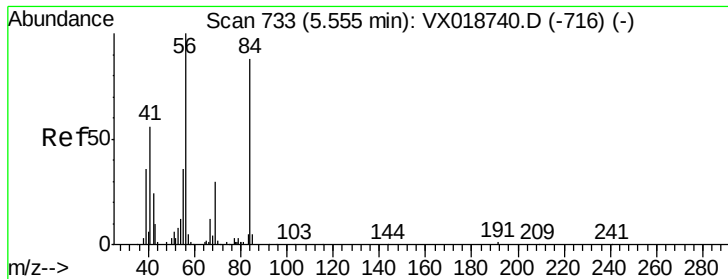


#29

1,1,1-Trichloroethane
 Concen: 1984.554 ug/L m
 RT: 5.46 min Scan# 717
 Delta R.T. -0.01 min
 Lab File: VX018757.D
 Acq: 02 Oct 2020 19:05

Tgt Ion: 97 Resp:64392152
 Ion Ratio Lower Upper
 97 100
 99 0.0 51.3 76.9#
 61 0.0 33.3 49.9#





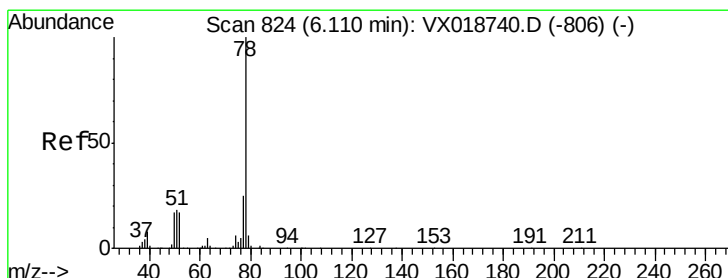
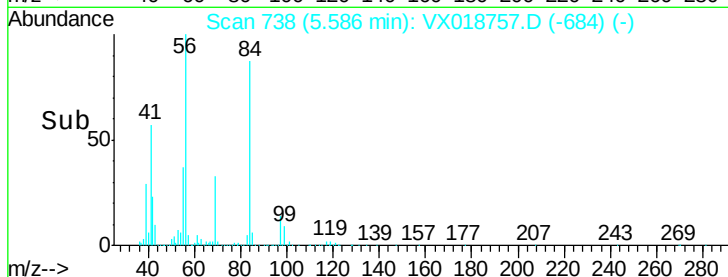
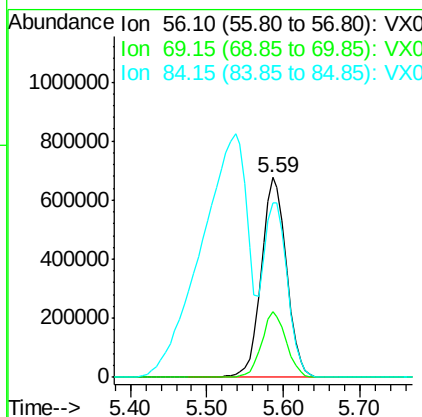
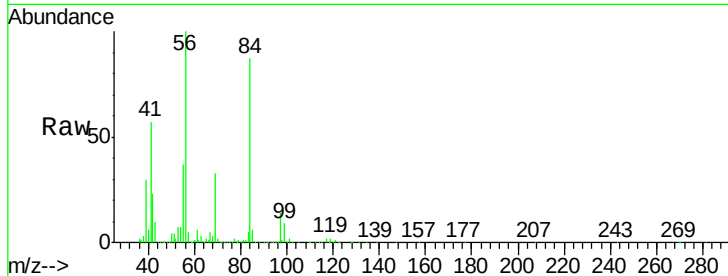
#30
Cyclohexane
Concen: 69.185 ug/L
RT: 5.59 min Scan# 738
Delta R.T. 0.03 min
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BG3N3

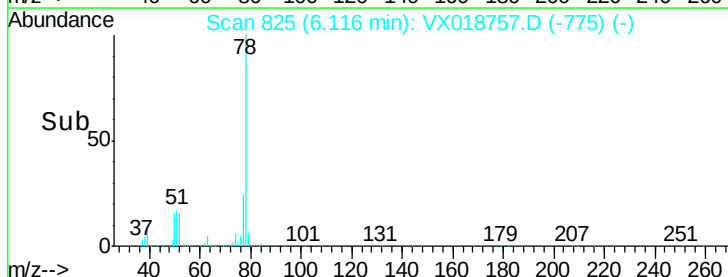
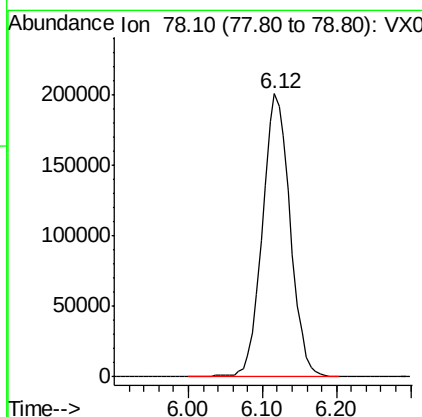
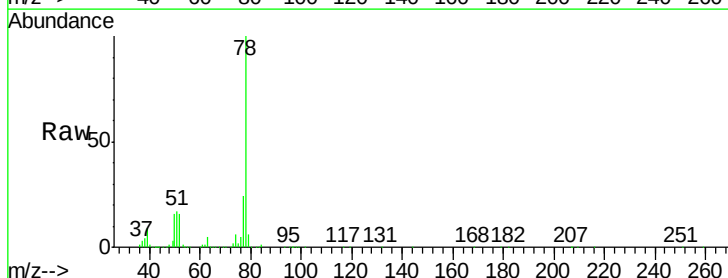
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Ion Ratio Lower Upper
56 100
69 32.0 26.0 39.0
84 79.5 73.8 110.6

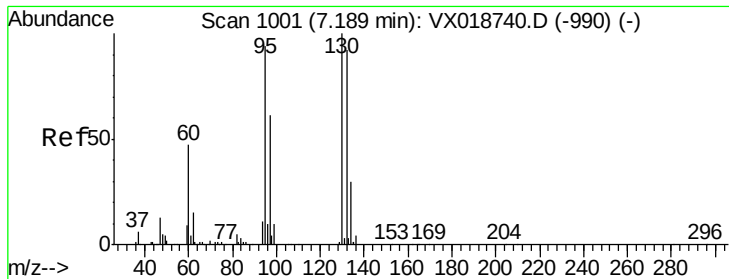
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#33
Benzene
Concen: 9.093 ug/L
RT: 6.12 min Scan# 825
Delta R.T. 0.01 min
Lab File: VX018757.D
Acq: 02 Oct 2020 19:05
Tgt Ion: 78 Resp: 522286





#34

Trichloroethene

Concen: 2.140 ug/L

RT: 7.20 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VX018757.D

Acq: 02 Oct 2020 19:05

Instrument :

MSVOA_X

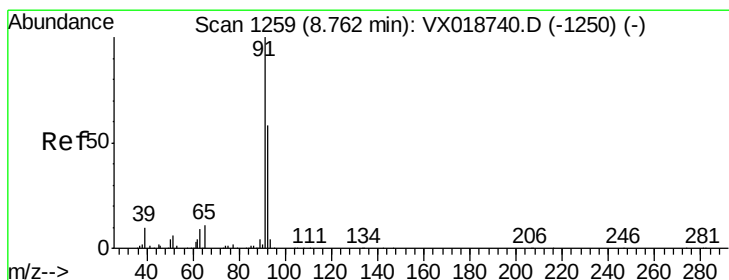
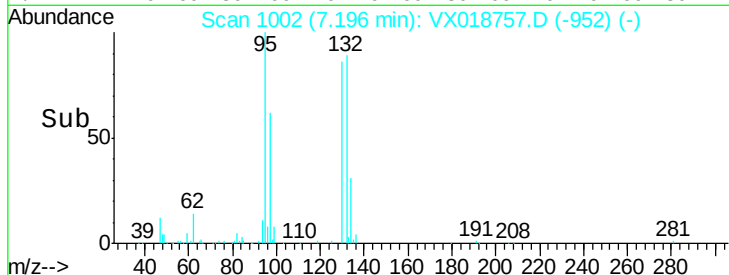
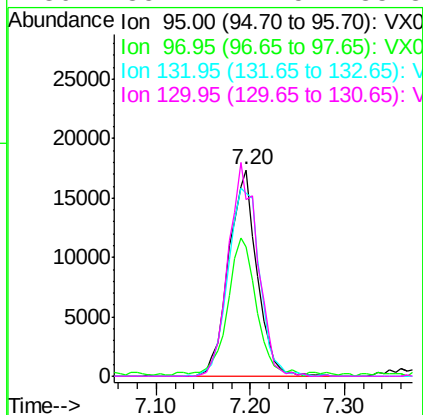
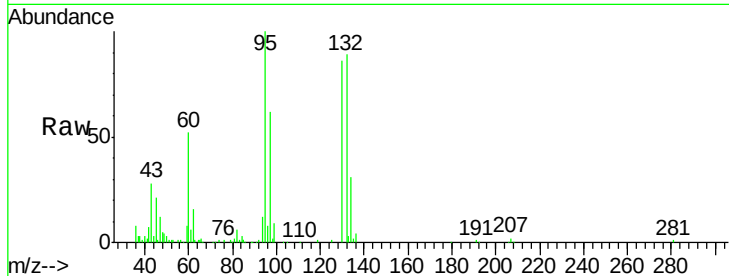
ClientSampled :

BG3N3

Tot Ion	Ion	Ratio	Lower	Upper
36297	95	100		
	97	62.5	45.3	84.1
	132	88.7	68.6	127.4
	130	85.7	74.5	138.3

Manual Integrations
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#42

Toluene

Concen: 1288.246 ug/L m

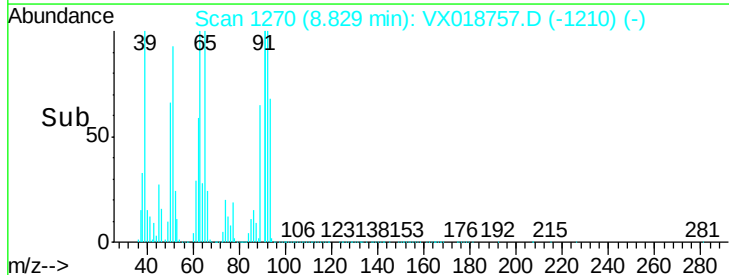
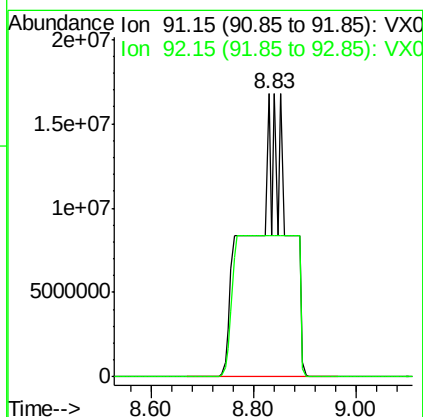
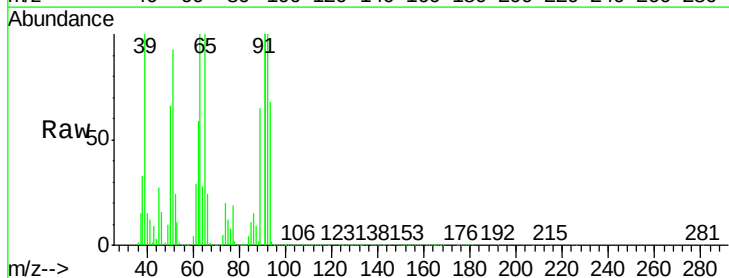
RT: 8.83 min Scan# 1270

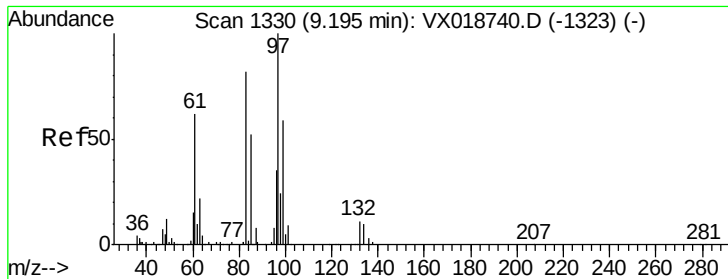
Delta R.T. 0.07 min

Lab File: VX018757.D

Acq: 02 Oct 2020 19:05

Tgt Ion	Ion	Ratio	Lower	Upper
80964942	91	100		
	92	100.0	40.3	74.9#





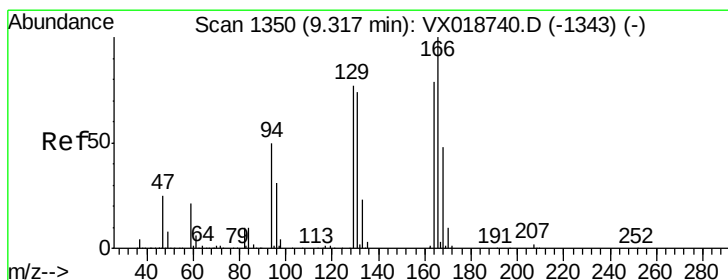
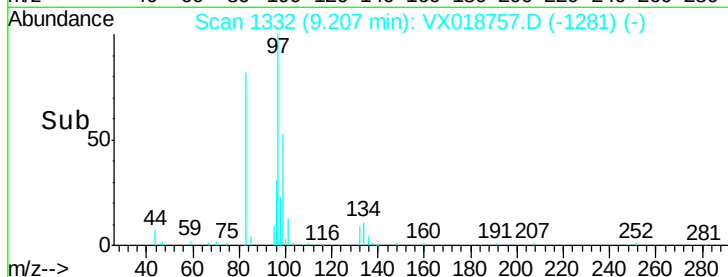
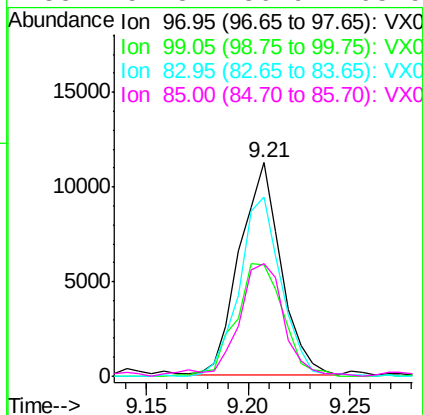
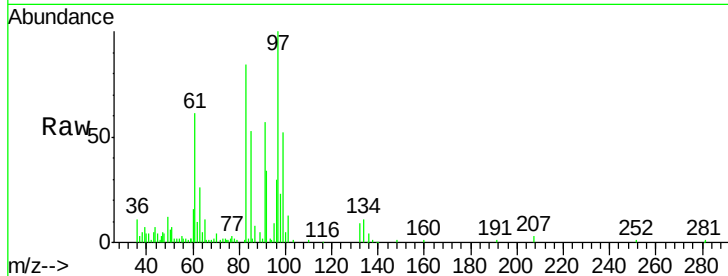
#47
1,1,2-Trichloroethane
Concen: 1.467 ug/L
RT: 9.21 min Scan# 1332
Delta R.T. 0.01 min
Lab File: VX018757.D
Acq: 02 Oct 2020 19:05

Instrument :
MSVOA_X
ClientSampleId :
BG3N3

Tot Ion:	97	Resp:	15927
Ion	Ratio	Lower	Upper
97	100		
99	52.4	41.1	76.3
83	83.7	57.5	106.7
85	52.8	36.9	68.5

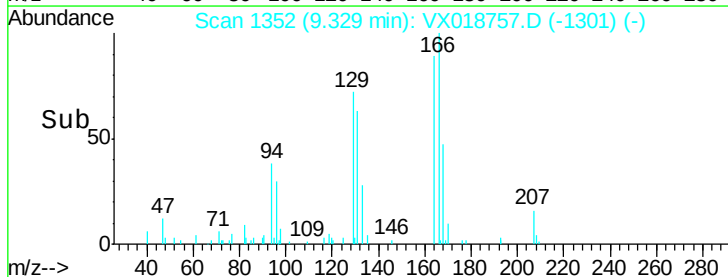
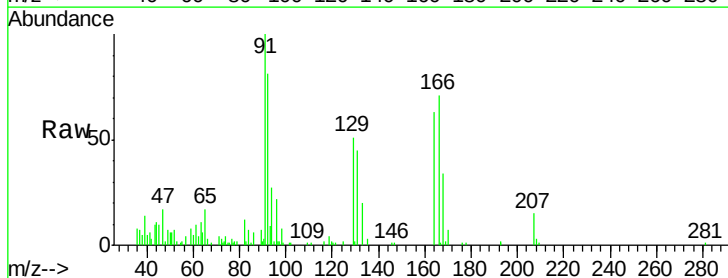
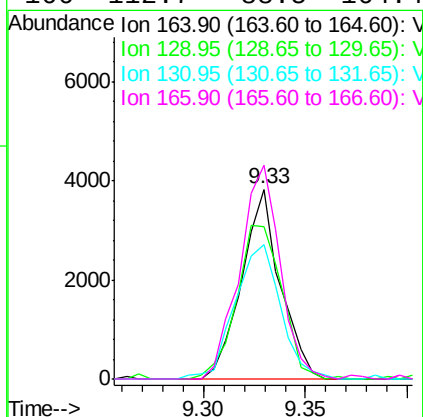
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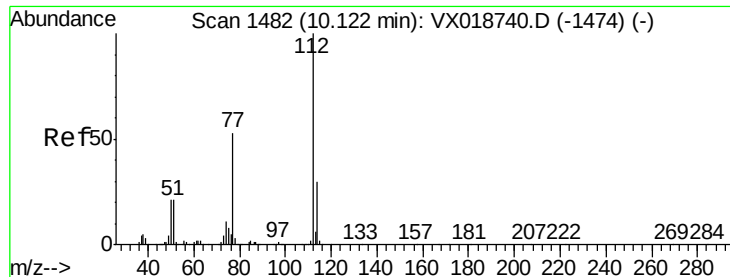
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#49
Tetrachloroethene
Concen: 0.340 ug/L
RT: 9.33 min Scan# 1352
Delta R.T. 0.01 min
Lab File: VX018757.D
Acq: 02 Oct 2020 19:05

Tgt Ion:	164	Resp:	5037
Ion	Ratio	Lower	Upper
164	100		
129	80.7	68.7	127.5
131	71.0	65.3	121.3
166	112.7	88.5	164.4





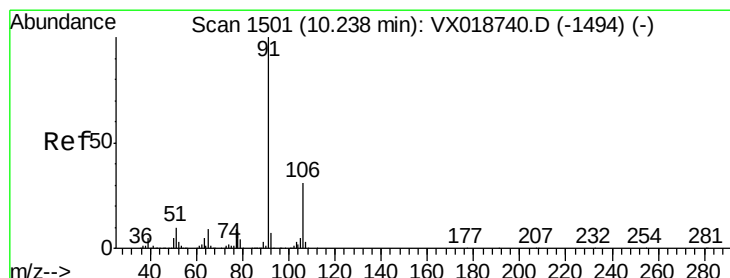
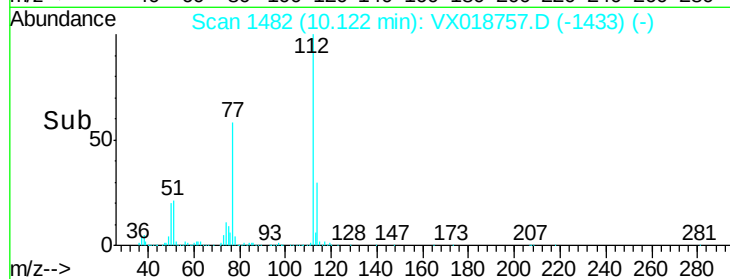
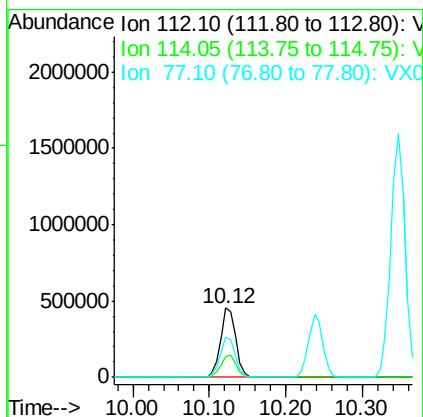
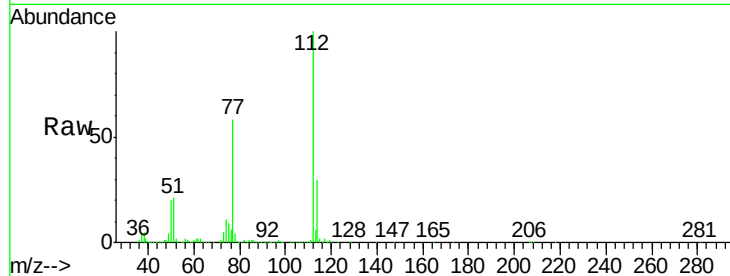
#53
Chlorobenzene
Concen: 14.504 ug/L
RT: 10.12 min Scan# 1482
Delta R.T. 0.00 min
Lab File: VX018757.D
Acq: 02 Oct 2020 19:05

Instrument :
MSVOA_X
ClientSampleId :
BG3N3

Tot Ion	Ratio	Lower	Upper
112	100		
114	30.5	21.3	39.5
77	58.1	42.4	63.6

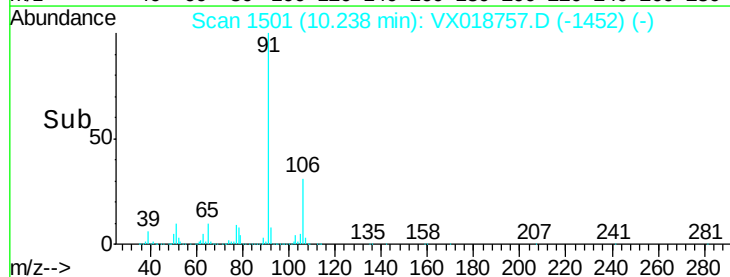
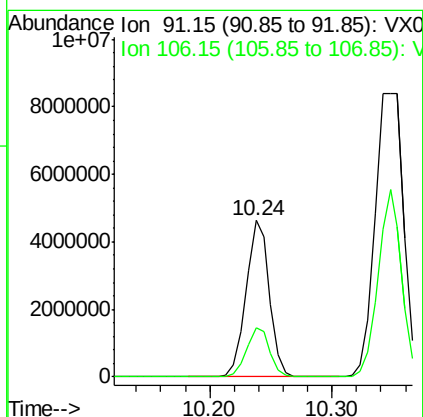
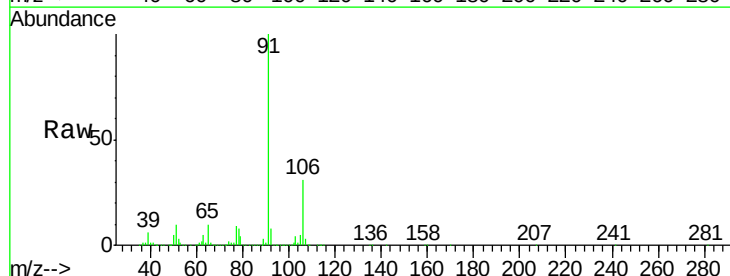
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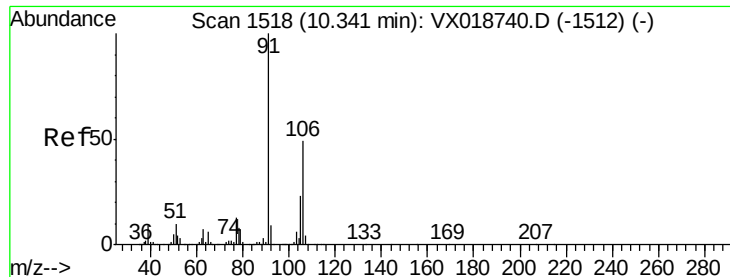
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#54
Ethylbenzene
Concen: 86.751 ug/L
RT: 10.24 min Scan# 1501
Delta R.T. 0.00 min
Lab File: VX018757.D
Acq: 02 Oct 2020 19:05

Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.4	21.5	39.9





#55

m,p-xylene

Concen: 268.911 ug/L

RT: 10.35 min Scan# 1519

Delta R.T. 0.01 min

Lab File: VX018757.D

Acq: 02 Oct 2020 19:05

Instrument :

MSVOA_X

ClientSampled :

BG3N3

Tot Ion:106 Resp: 7390037

Ion Ratio Lower Upper

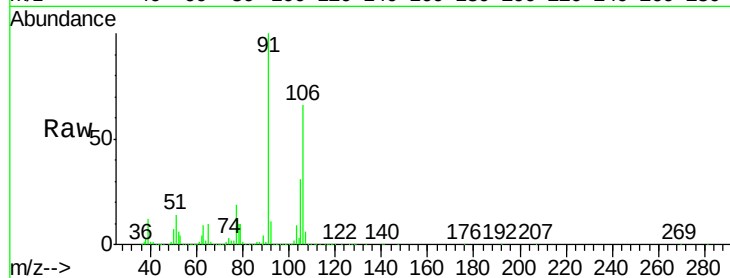
106 100

91 151.5 143.4 266.2

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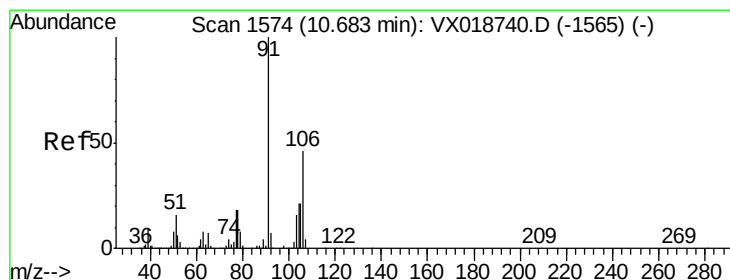
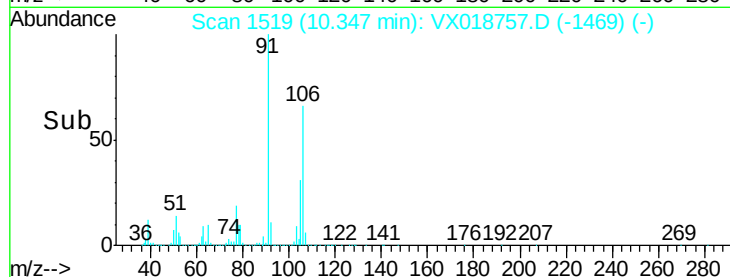
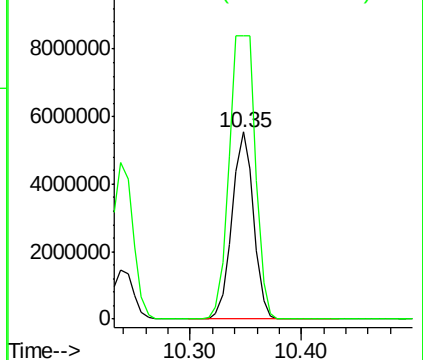
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Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0



#56

o-xylene

Concen: 196.350 ug/L

RT: 10.69 min Scan# 1575

Delta R.T. 0.01 min

Lab File: VX018757.D

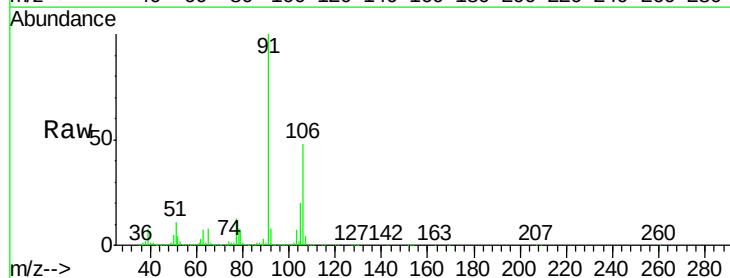
Acq: 02 Oct 2020 19:05

Tgt Ion:106 Resp: 4986532

Ion Ratio Lower Upper

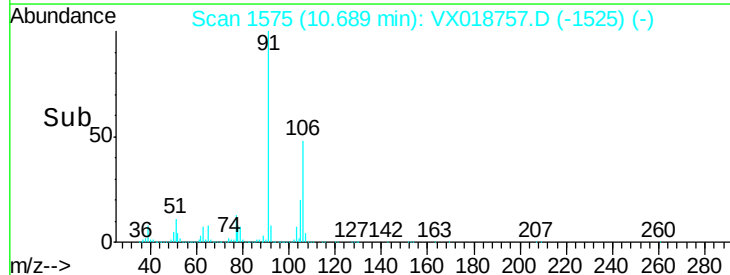
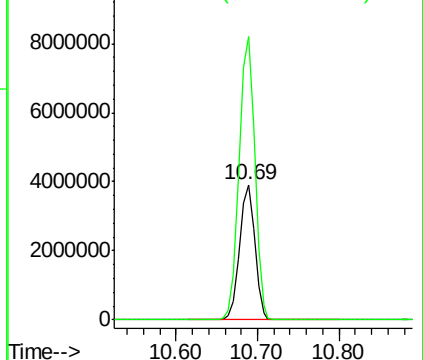
106 100

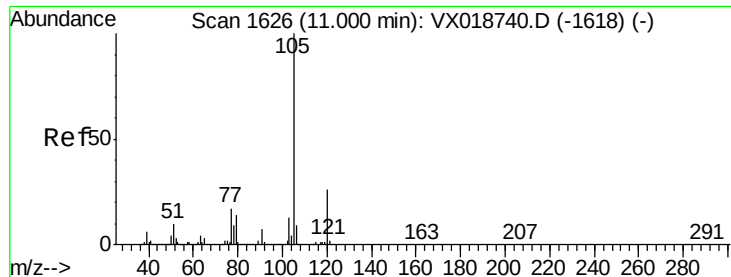
91 209.0 153.4 284.8



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0





#58

Isopropylbenzene

Concen: 12.250 ug/L

RT: 11.01 min Scan# 1627

Delta R.T. 0.01 min

Lab File: VX018757.D

Acq: 02 Oct 2020 19:05

Instrument :

MSVOA_X

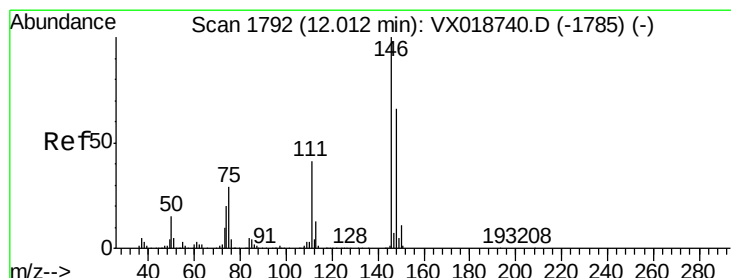
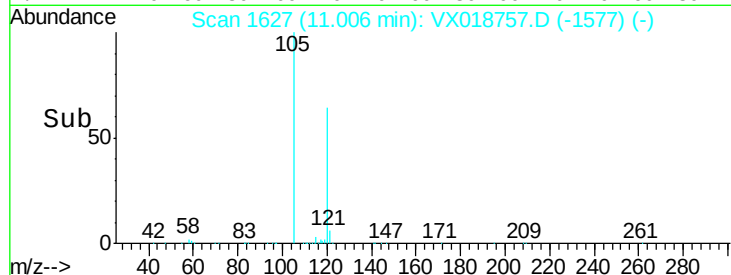
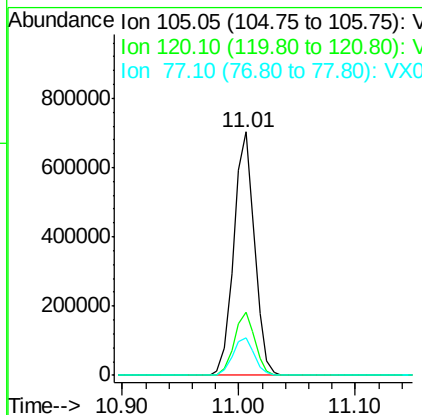
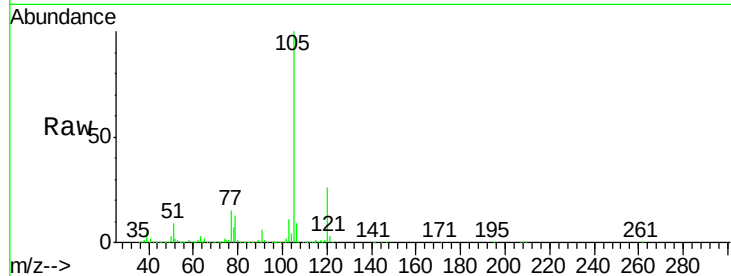
ClientSampled :

BG3N3

Tot Ion:	105	Resp:	870978
Ion Ratio	Lower	Upper	
105	100		
120	25.9	20.2	30.2
77	15.8	13.3	19.9

Manual Integrations
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#63

1,3-Dichlorobenzene

Concen: 1.356 ug/L

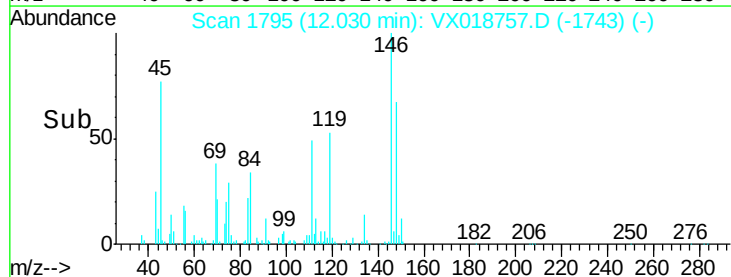
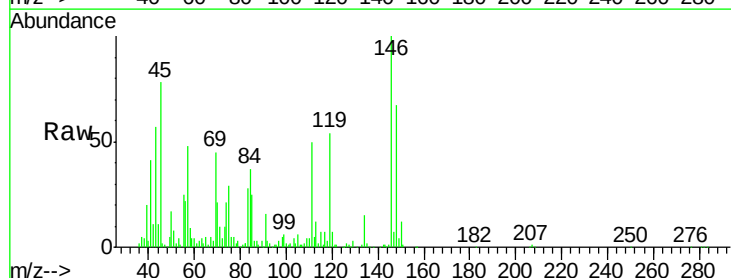
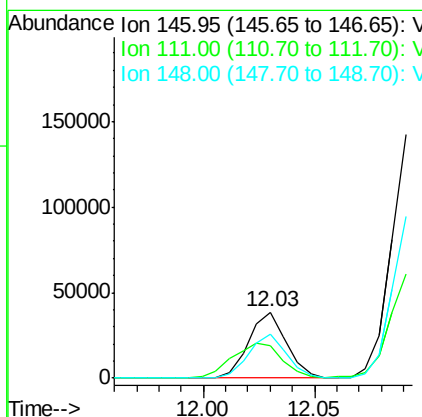
RT: 12.03 min Scan# 1795

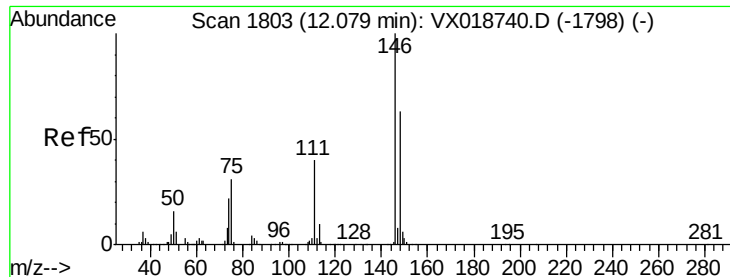
Delta R.T. 0.02 min

Lab File: VX018757.D

Acq: 02 Oct 2020 19:05

Tgt Ion:	146	Resp:	45632
Ion Ratio	Lower	Upper	
146	100		
111	49.7	28.4	52.8
148	67.1	45.9	85.3





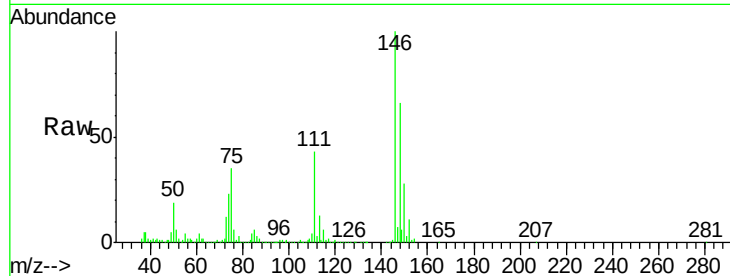
#64
1,4-Dichlorobenzene
Concen: 5.268 ug/L
RT: 12.09 min Scan# 1805
Delta R.T. 0.01 min
Lab File: VX018757.D
Acq: 02 Oct 2020 19:05

Instrument :
MSVOA_X
ClientSampleId :
BG3N3

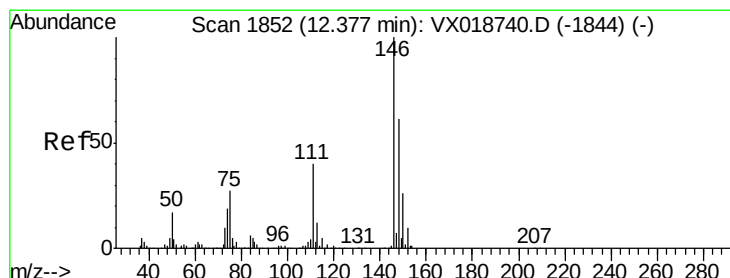
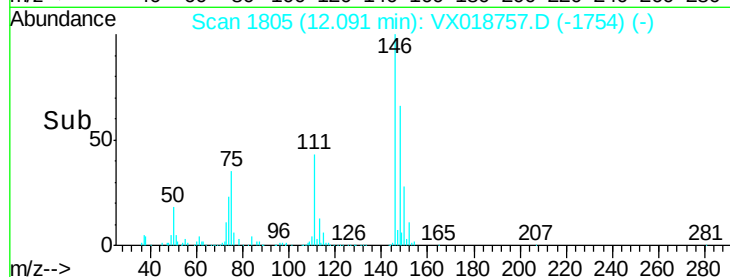
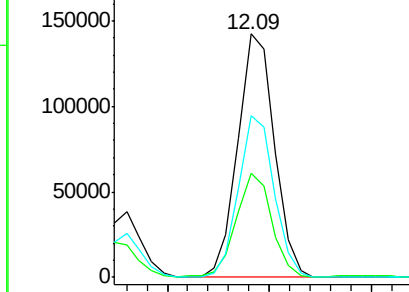
Tot Ion	Ratio	Lower	Upper
146	100		
111	42.8	28.6	53.2
148	66.3	44.2	82.0

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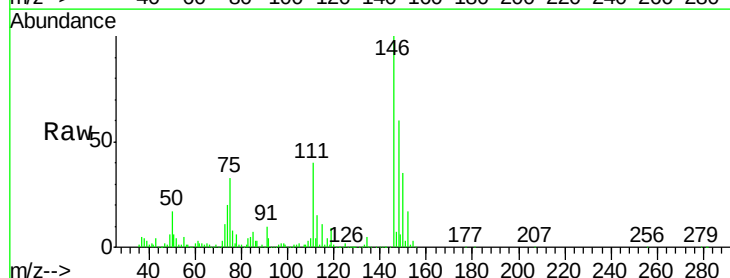


Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V

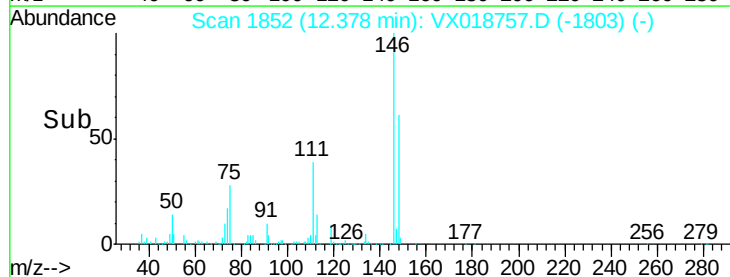
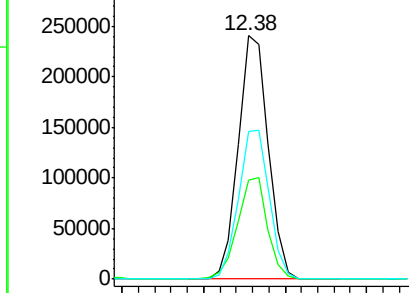


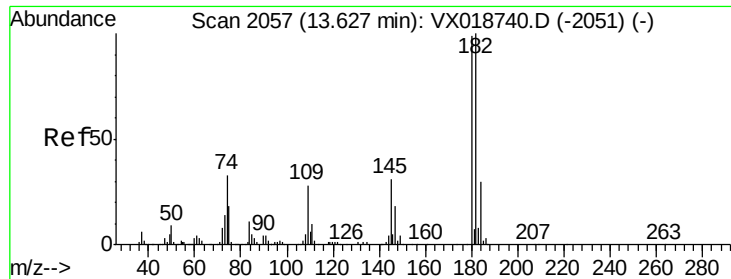
#66
1,2-Dichlorobenzene
Concen: 9.817 ug/L
RT: 12.38 min Scan# 1852
Delta R.T. 0.00 min
Lab File: VX018757.D
Acq: 02 Oct 2020 19:05

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.5	31.7	47.5
148	60.4	49.0	73.6



Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V





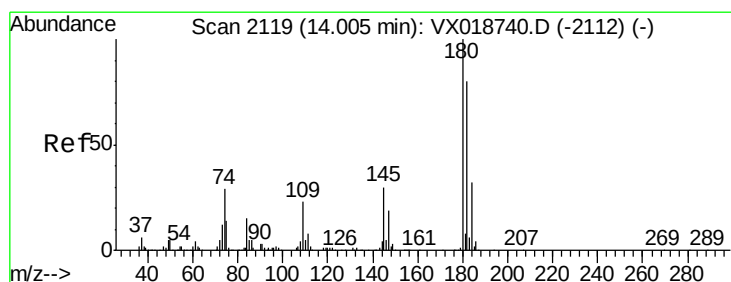
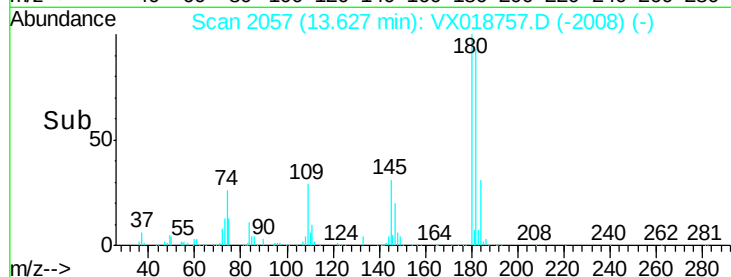
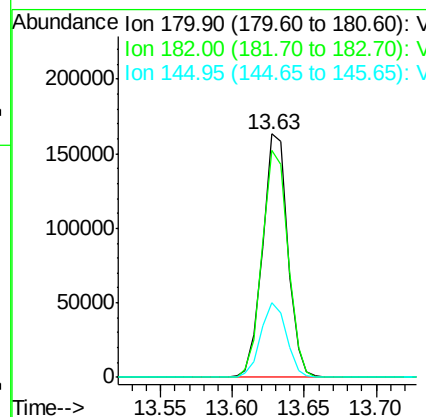
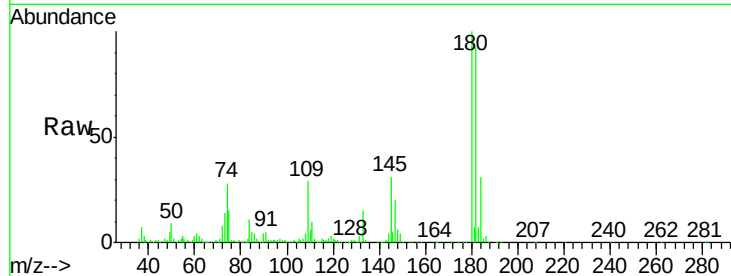
#69
 1,2,4-trichlorobenzene
 Concen: 9.120 ug/L
 RT: 13.63 min Scan# 2057
 Delta R.T. 0.00 min
 Lab File: VX018757.D
 Acq: 02 Oct 2020 19:05

Instrument :
 MSVOA_X
 ClientSampleId :
 BG3N3

Tot Ion	Ratio	Resp	Lower	Upper
180	100	196083		
182	95.7	80.2	120.4	
145	31.6	25.2	37.8	

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#71
 1,2,3-Trichlorobenzene
 Concen: 5.431 ug/L
 RT: 14.01 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VX018757.D
 Acq: 02 Oct 2020 19:05

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	105067		
182	96.4	73.6	110.4	
145	33.3	26.6	40.0	

