

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX071420\
 Data File : VX017367.D
 Acq On : 14 Jul 2020 10:41
 Operator : JC/SP
 Sample : L3216-09 .2PPB MDL
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT3-2020

Manual Integrations
 APPROVED

MMDadoda
 7/15/2020 11:43:08 AM

Quant Time: Jul 15 02:56:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071320W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 14 02:59:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	298201	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	464708	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	426436	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	213847	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	189361	50.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.20%	
35) Dibromofluoromethane	5.46	113	154522	49.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.72%	
50) Toluene-d8	8.70	98	534680	47.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.70%	
62) 4-Bromofluorobenzene	11.12	95	192408	42.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.80%	

Target Compounds

					Qvalue	
3) Chloromethane	1.32	50	832	0.293	ug/l	92
4) Vinyl Chloride	1.39	62	673	0.239	ug/l	89
6) Chloroethane	1.72	64	447	0.252	ug/l #	43
7) Trichlorofluoromethane	1.91	101	1121	0.236	ug/l #	62
8) Diethyl Ether	2.17	74	536	0.320	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	2.37	101	758	0.281	ug/l #	77
12) 1,1-Dichloroethene	2.37	96	844	0.311	ug/l #	29
14) Allyl chloride	2.70	41	1448	0.308	ug/l #	78
15) Acrylonitrile	3.12	53	1684	1.102	ug/l	89
16) Acetone	2.42	43	2550	1.910	ug/l	95
17) Carbon Disulfide	2.55	76	2794	0.353	ug/l #	56
18) Methyl Acetate	2.75	43	939	0.285	ug/l	92
19) Methyl tert-butyl Ether	3.17	73	2006	0.218	ug/l #	82
20) Methylene Chloride	2.84	84	1574	0.483	ug/l #	97
21) trans-1,2-Dichloroethene	3.15	96	918	0.296	ug/l #	90
22) Diisopropyl ether	3.82	45	2349	0.262	ug/l #	81
23) Vinyl Acetate	3.78	43	6541	0.830	ug/l	97
24) 1,1-Dichloroethane	3.67	63	1289m	0.245	ug/l	
25) 2-Butanone	4.64	43	2560	1.207	ug/l	97
26) 2,2-Dichloropropane	4.56	77	1220m	0.249	ug/l	
27) cis-1,2-Dichloroethene	4.56	96	937m	0.275	ug/l	
28) Bromochloromethane	4.99	49	585	0.241	ug/l #	73
29) Tetrahydrofuran	5.10	42	1638	1.193	ug/l #	40
30) Chloroform	5.18	83	1296	0.229	ug/l	91
32) 1,1,1-Trichloroethane	5.46	97	1251	0.239	ug/l #	38
36) 1,1-Dichloropropene	5.76	75	1312m	0.307	ug/l	
37) Ethyl Acetate	4.78	43	1021m	0.231	ug/l	
38) Carbon Tetrachloride	5.75	117	1047	0.209	ug/l	92
39) Methylcyclohexane	7.43	83	1084	0.234	ug/l #	67
40) Benzene	6.11	78	2643	0.215	ug/l #	88
41) Methacrylonitrile	5.01	41	657	0.277	ug/l #	62
42) 1,2-Dichloroethane	6.16	62	1353	0.283	ug/l	78
43) Isopropyl Acetate	6.40	43	1562	0.221	ug/l #	92
44) Trichloroethene	7.20	130	907	0.242	ug/l	78

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

45) 1,2-Dichloropropane	7.49	63	640	0.204	ug/l #	87
46) Dibromomethane	7.65	93	549	0.242	ug/l	96
49) 1,4-Dioxane	7.71	88	300m	4.325	ug/l	
51) 4-Methyl-2-Pentanone	8.62	43	3238	0.752	ug/l	91
53) t-1,3-Dichloropropene	9.02	75	1110	0.217	ug/l	96
55) 1,1,2-Trichloroethane	9.19	97	863	0.263	ug/l #	82
57) 1,3-Dichloropropane	9.35	76	1201	0.220	ug/l #	88
58) 2-Chloroethyl Vinyl ether	8.29	63	2107	0.889	ug/l	97
59) 2-Hexanone	9.48	43	2809	0.864	ug/l	81
61) 1,2-Dibromoethane	9.65	107	720	0.201	ug/l	92
64) Tetrachloroethene	9.31	164	856	0.232	ug/l #	86
65) Chlorobenzene	10.12	112	1880	0.217	ug/l	93
66) 1,1,1,2-Tetrachloroethane	10.21	131	915	0.265	ug/l #	68
68) m/p-Xylenes	10.34	106	1857	0.338	ug/l	95
71) Bromoform	10.85	173	585	0.201	ug/l #	98
75) 1,1,2,2-Tetrachloroethane	11.25	83	913	0.224	ug/l #	76
76) 1,2,3-Trichloropropane	11.28	75	801m	0.203	ug/l	
77) Bromobenzene	11.24	156	1036	0.271	ug/l	92
79) 2-Chlorotoluene	11.40	91	2002	0.216	ug/l	86
82) 4-Chlorotoluene	11.49	91	2254	0.205	ug/l	94
87) 1,3-Dichlorobenzene	12.01	146	1810	0.265	ug/l	99
88) 1,4-Dichlorobenzene	12.08	146	2076m	0.301	ug/l	
90) Hexachloroethane	12.58	117	498	0.215	ug/l	92
91) 1,2-Dichlorobenzene	12.38	146	1502	0.234	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	12.99	75	274	0.255	ug/l	82
93) 1,2,4-Trichlorobenzene	13.63	180	1179	0.265	ug/l	98
94) Hexachlorobutadiene	13.77	225	571	0.314	ug/l	97
96) 1,2,3-Trichlorobenzene	14.01	180	1049	0.244	ug/l	94

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

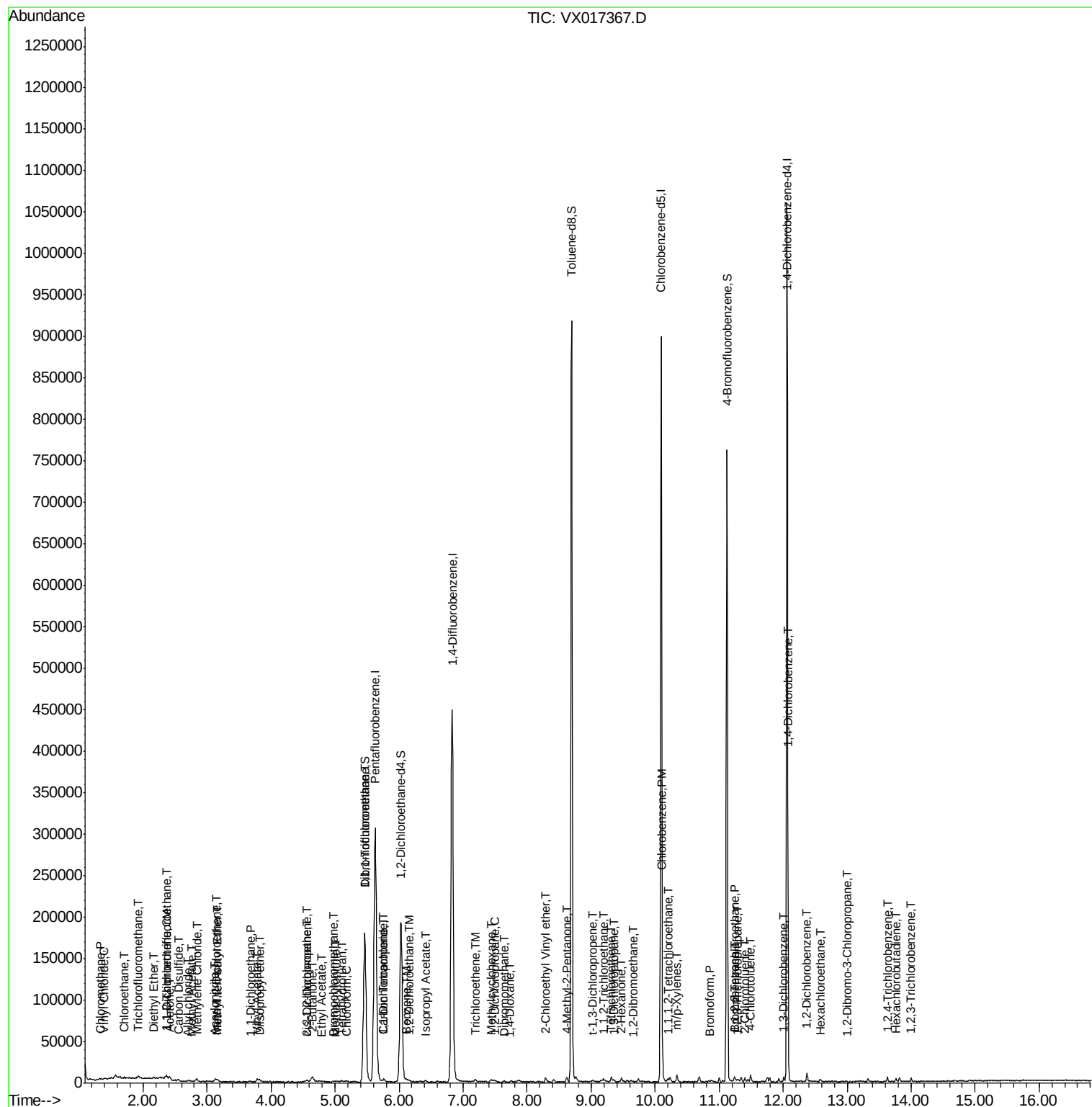
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX071420\
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Operator : JC/SP
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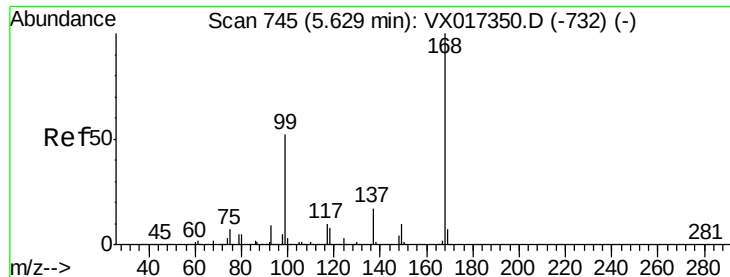
Instrument :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.00 min

Lab File: VX017367.D

Acq: 14 Jul 2020 10:41

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT3-2020

Tot Ion:168 Resp: 298201

Ion Ratio Lower Upper

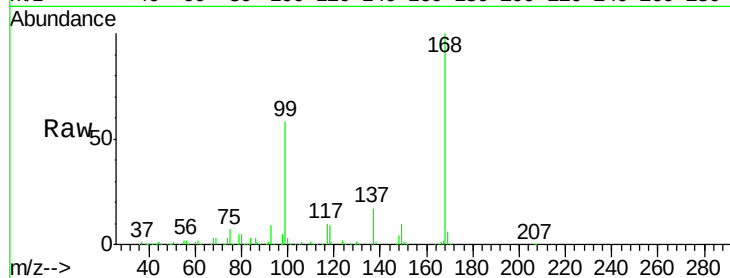
168 100

99 57.5 41.6 62.4

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

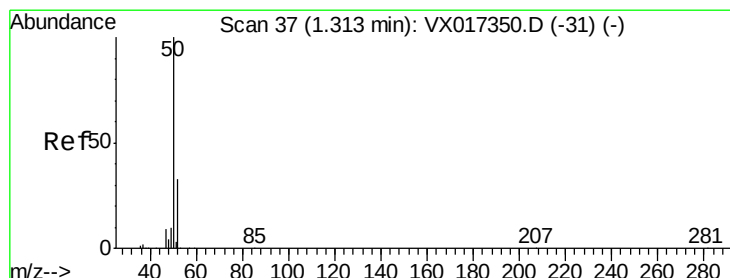
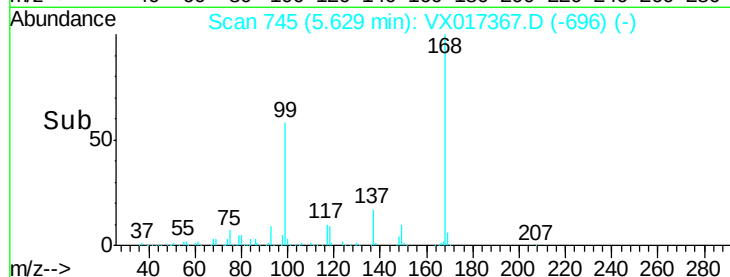
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.293 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017367.D

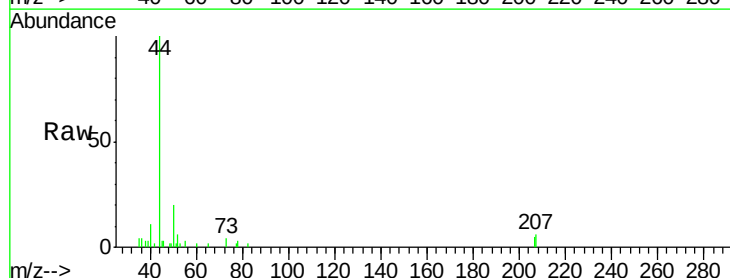
Acq: 14 Jul 2020 10:41

Tgt Ion: 50 Resp: 832

Ion Ratio Lower Upper

50 100

52 28.6 26.7 40.1



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

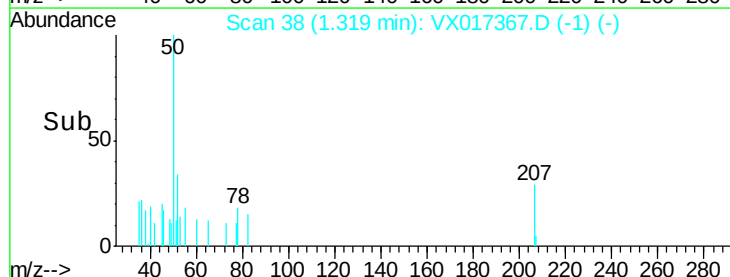
600

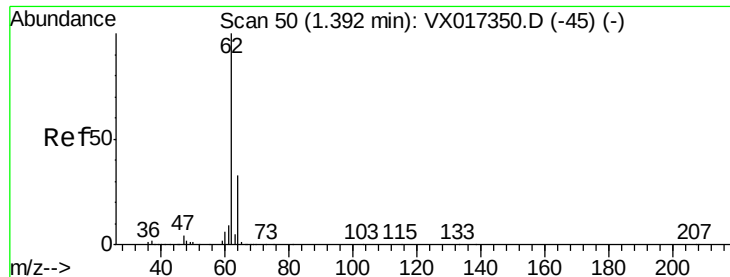
400

200

0

Time-->





#4

Vinyl Chloride

Concen: 0.239 ug/l

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX017367.D

Acq: 14 Jul 2020 10:41

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT3-2020

Tot Ion: 62 Resp: 673

Ion Ratio Lower Upper

62 100

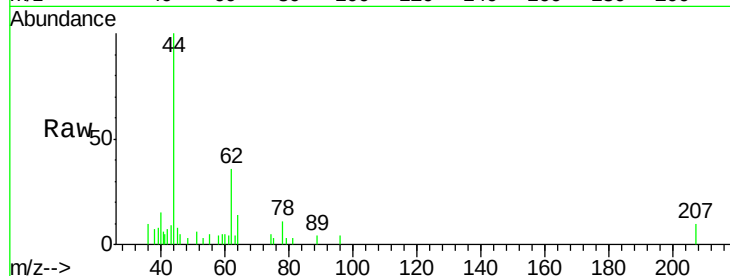
64 39.2 26.3 39.5

Manual Integrations

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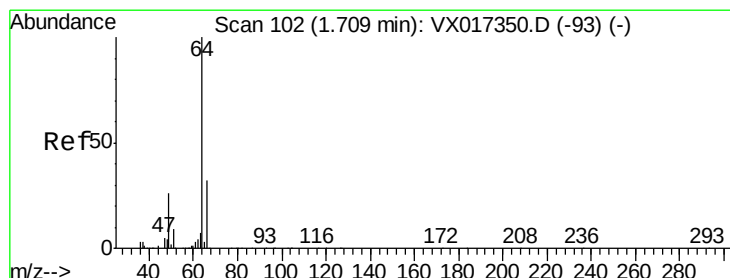
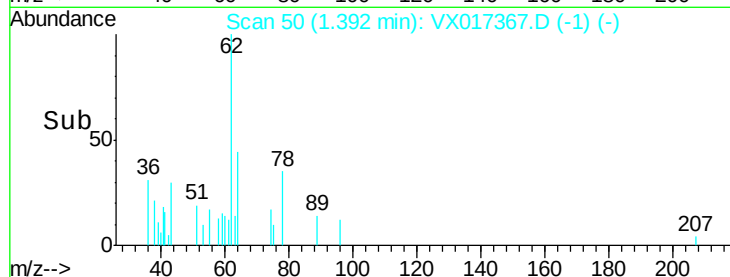
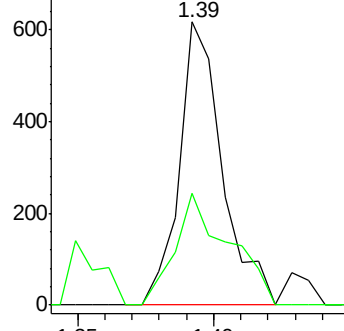
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Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#6

Chloroethane

Concen: 0.252 ug/l

RT: 1.72 min Scan# 103

Delta R.T. 0.01 min

Lab File: VX017367.D

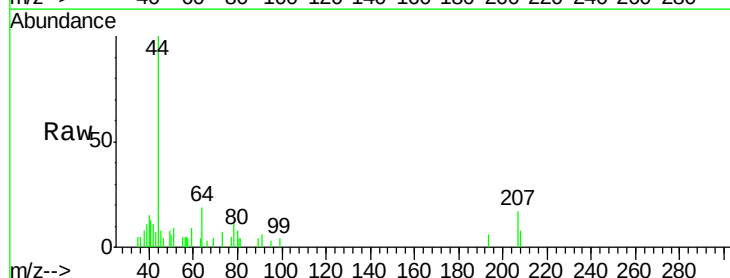
Acq: 14 Jul 2020 10:41

Tgt Ion: 64 Resp: 447

Ion Ratio Lower Upper

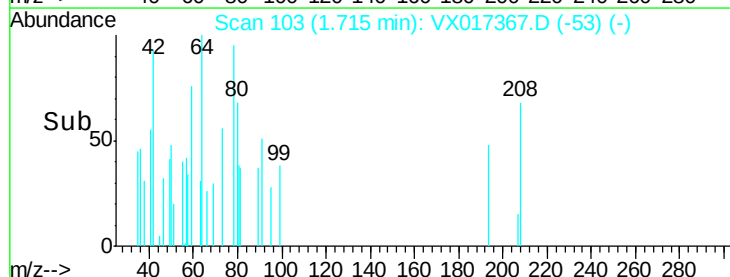
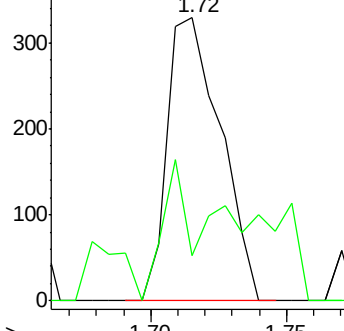
64 100

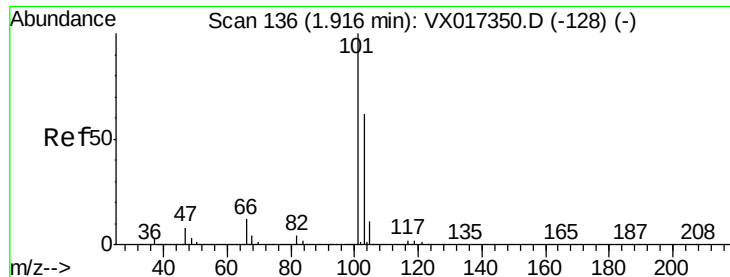
66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#7

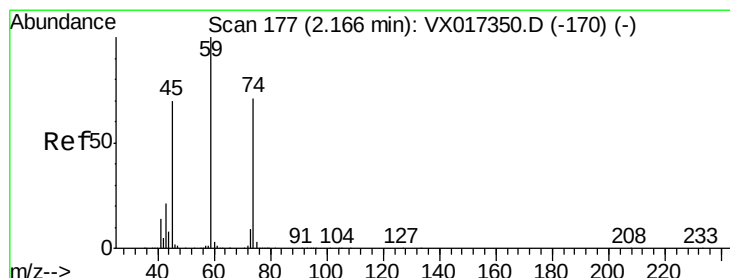
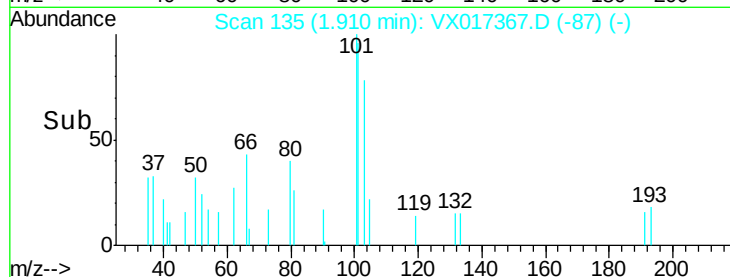
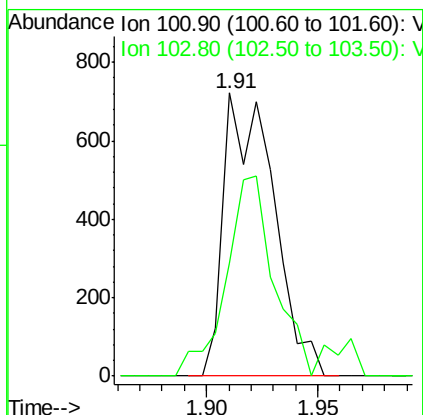
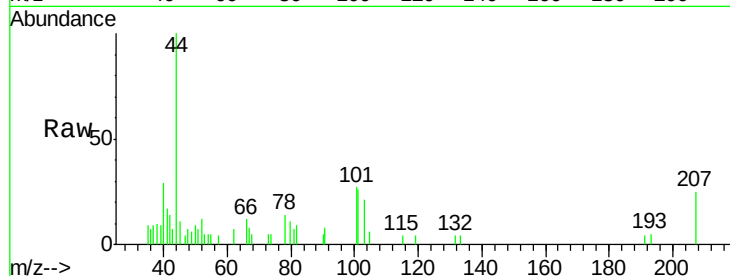
Trichlorofluoromethane
Concen: 0.236 ug/l
RT: 1.91 min Scan# 135
Delta R.T. -0.01 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT3-2020

Tot Ion	Ratio	Lower	Upper
101	100		
103	32.7	49.6	74.4#

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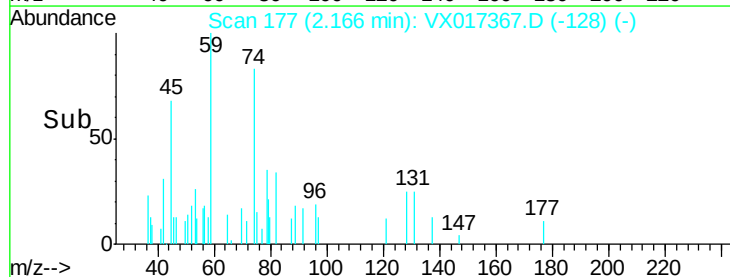
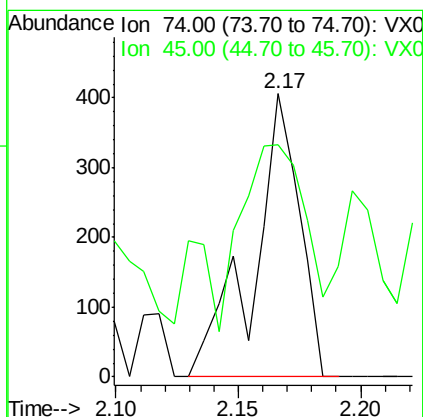
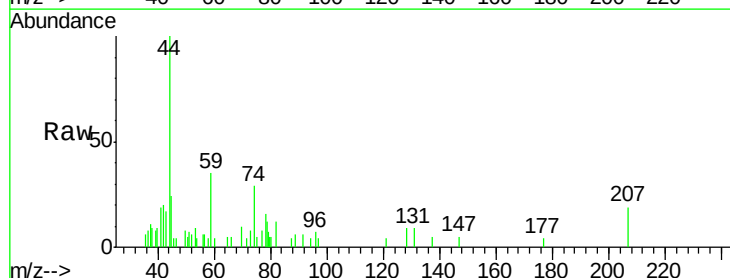
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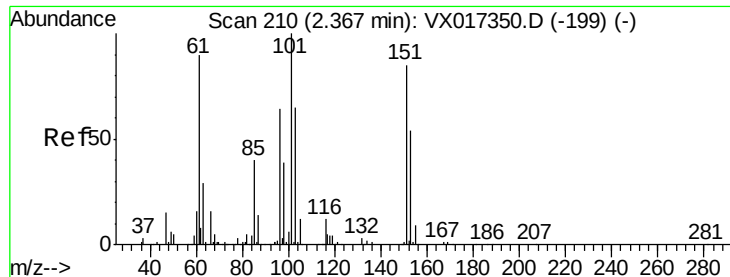


#8

Diethyl Ether
Concen: 0.320 ug/l
RT: 2.17 min Scan# 177
Delta R.T. 0.00 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Tgt Ion	Ratio	Lower	Upper
74	100		
45	90.3	47.2	141.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.281 ug/l

RT: 2.37 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX017367.D

Acq: 14 Jul 2020 10:41

Instrument :

MSVOA_X

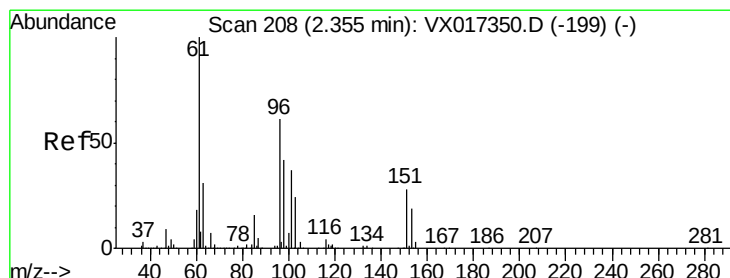
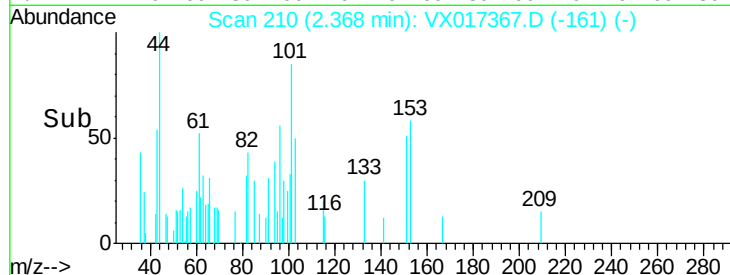
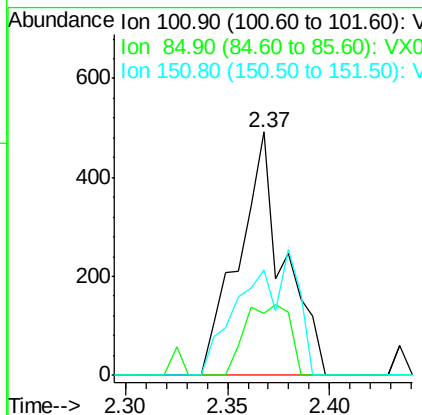
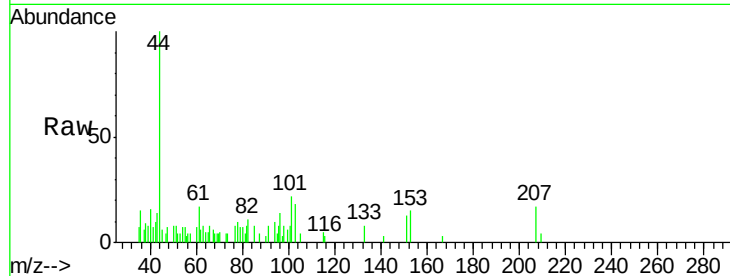
ClientSampleId :

MDL-WATER-03-QT3-2020

Tot Ion:	101	Resp:	758
Ion Ratio	Lower	Upper	
101	100		
85	28.9	33.7	50.5#
151	61.1	66.4	99.6#

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#12

1,1-Dichloroethene

Concen: 0.311 ug/l

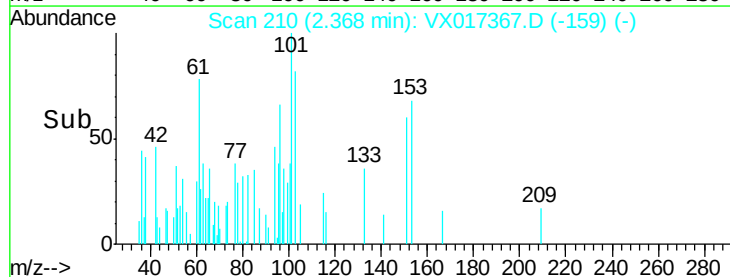
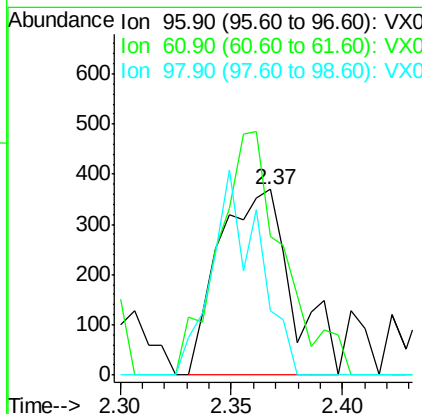
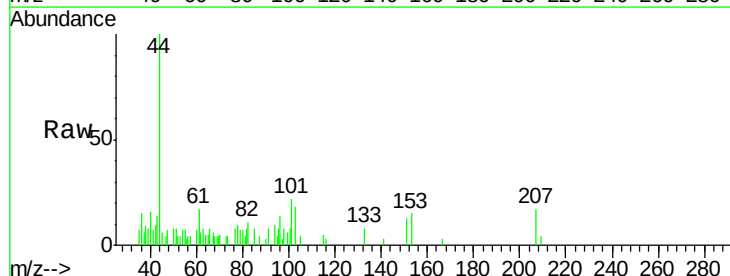
RT: 2.37 min Scan# 210

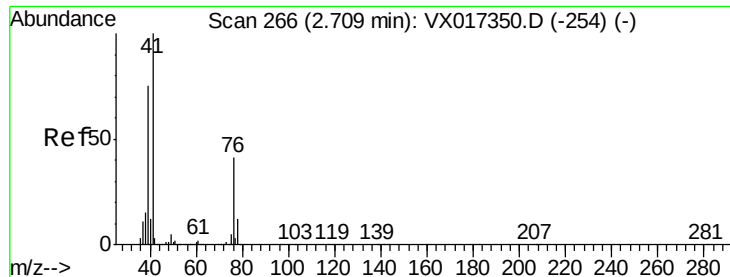
Delta R.T. 0.01 min

Lab File: VX017367.D

Acq: 14 Jul 2020 10:41

Tgt Ion:	96	Resp:	844
Ion Ratio	Lower	Upper	
96	100		
61	53.5	131.5	197.3#
98	34.3	55.1	82.7#





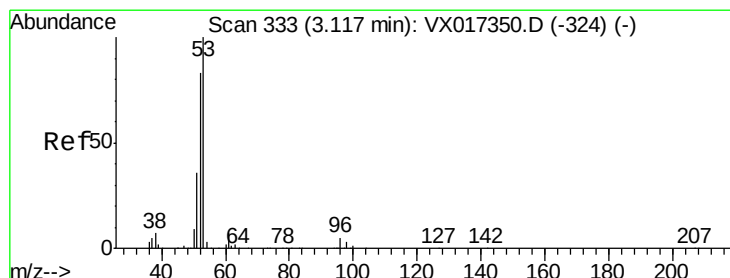
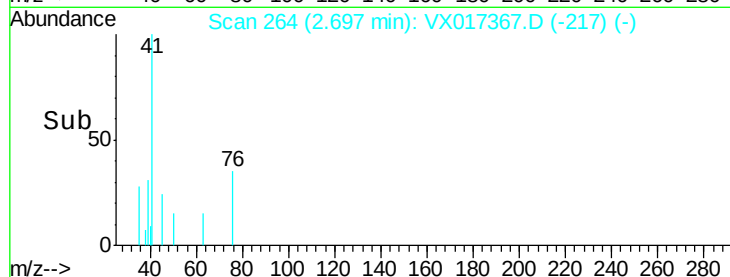
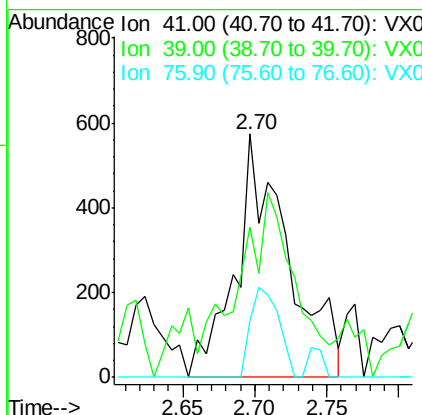
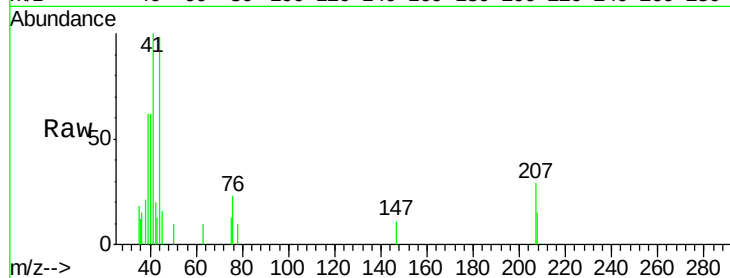
#14
Allvl chloride
Concen: 0.308 ug/l
RT: 2.70 min Scan# 264
Delta R.T. -0.01 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT3-2020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		1448		
39	81.7	53.0	79.4#		
76	19.6	28.2	42.2#		

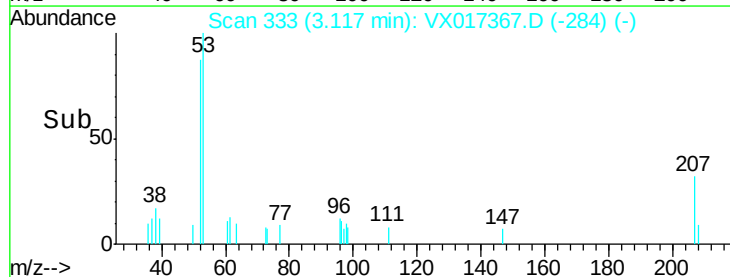
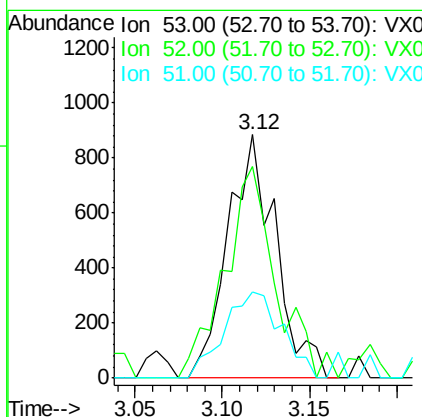
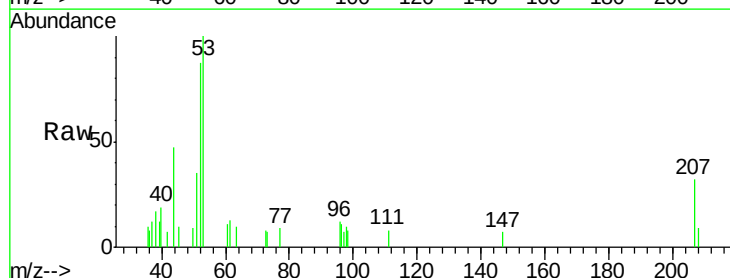
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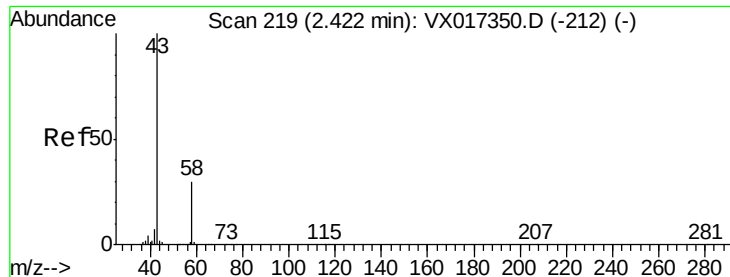
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#15
Acrylonitrile
Concen: 1.102 ug/l
RT: 3.12 min Scan# 333
Delta R.T. 0.00 min
Lab File: VX017367.D
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Tgt Ion	Ion	Ratio	Resp	Lower	Upper
53	100		1684		
52	92.5	65.8	98.6		
51	42.3	29.2	43.8		





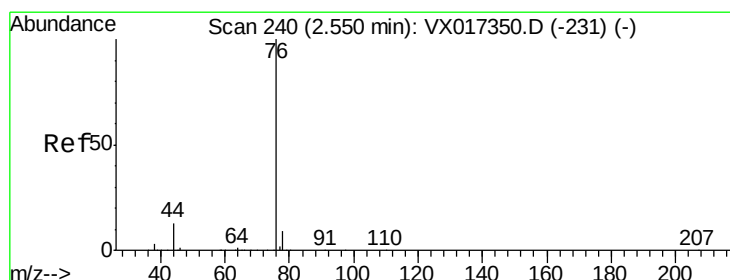
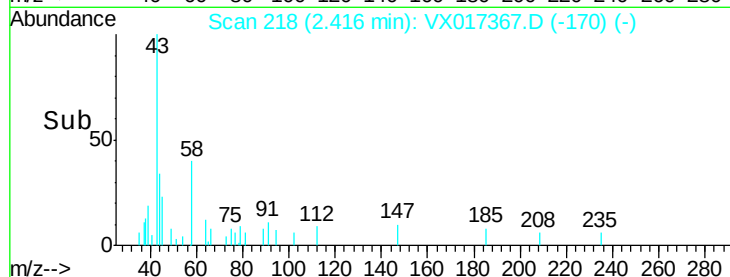
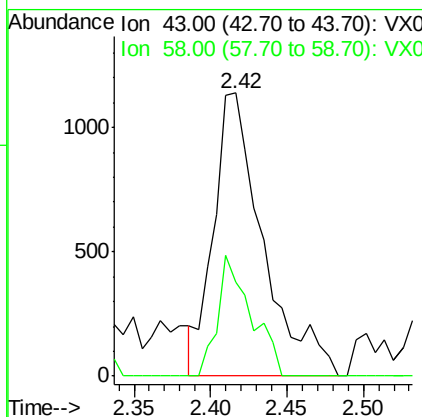
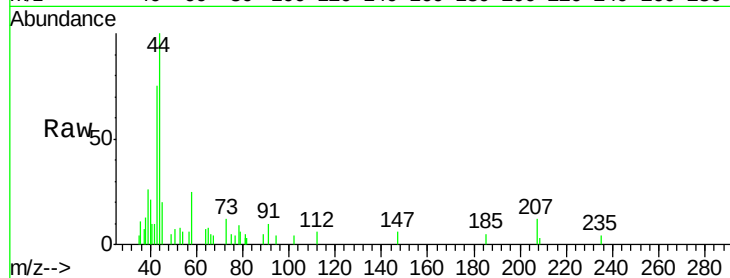
#16
Acetone
Concen: 1.910 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.01 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT3-2020

Tot Ion: 43 Resp: 2550
Ion Ratio Lower Upper
43 100
58 33.1 24.2 36.2

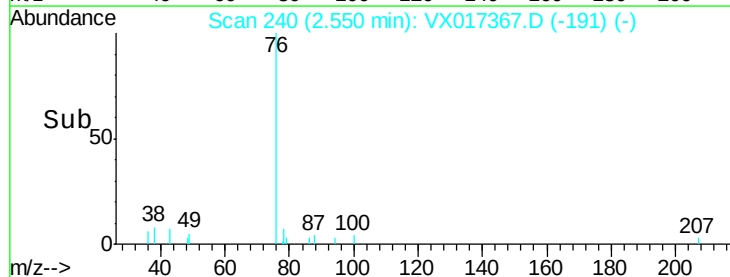
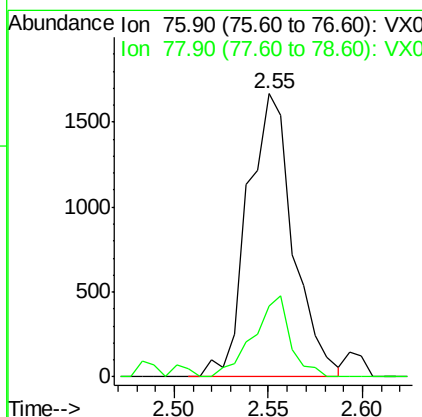
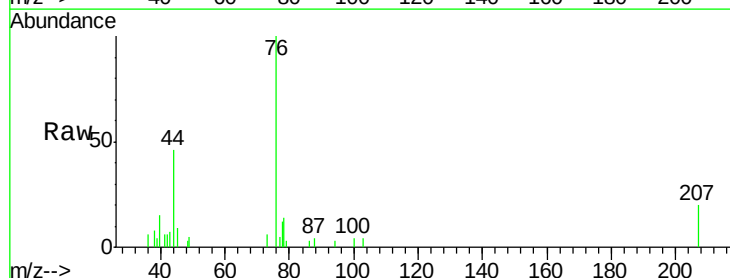
Manual Integrations
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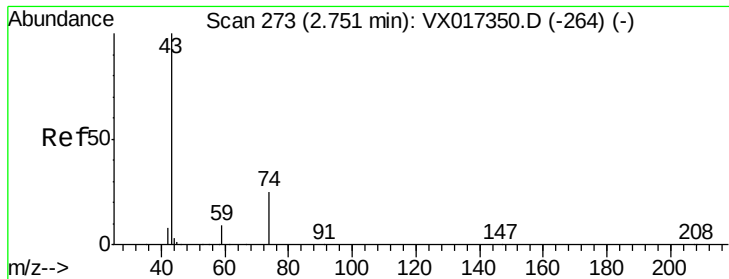
MMDadoda
7/15/2020 11:43:08 AM



#17
Carbon Disulfide
Concen: 0.353 ug/l
RT: 2.55 min Scan# 240
Delta R.T. 0.00 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Tgt Ion: 76 Resp: 2794
Ion Ratio Lower Upper
76 100
78 25.2 7.3 10.9#





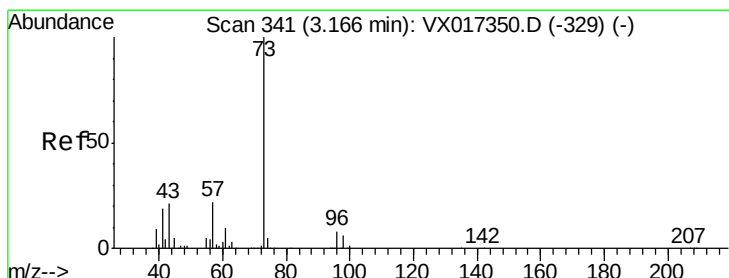
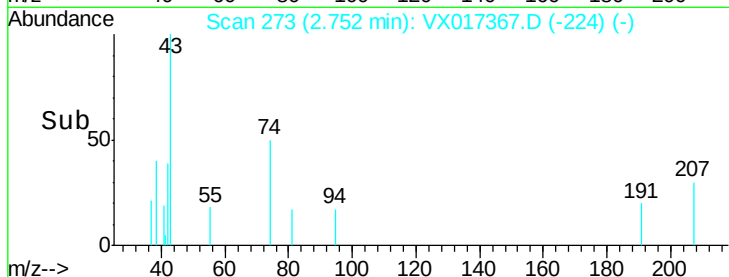
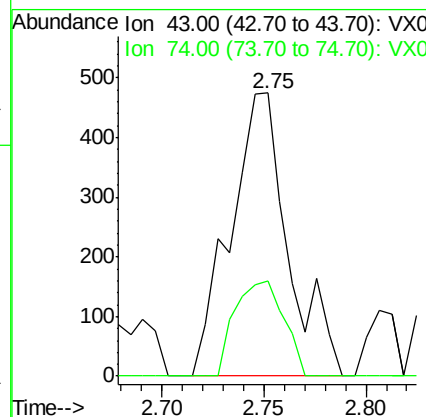
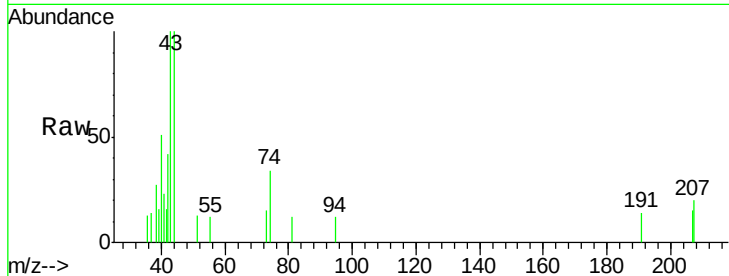
#18
Methyl Acetate
Concen: 0.285 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.00 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT3-2020

Tot Ion: 43 Resp: 939
Ion Ratio Lower Upper
43 100
74 28.3 19.4 29.2

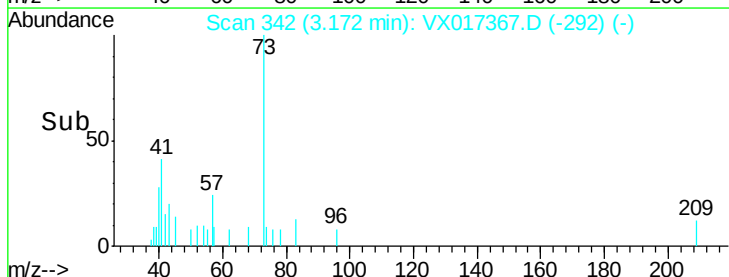
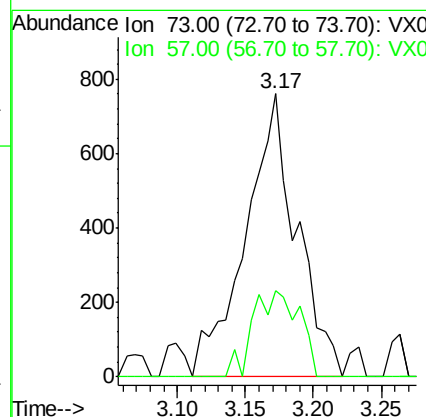
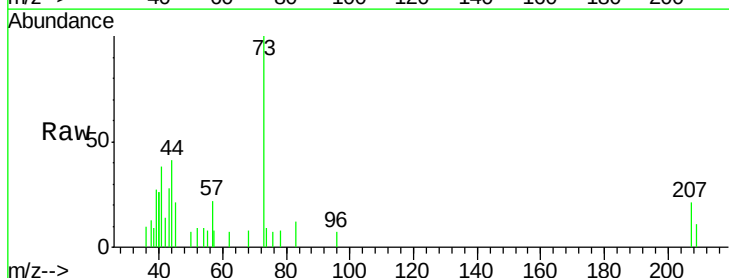
Manual Integrations
APPROVED

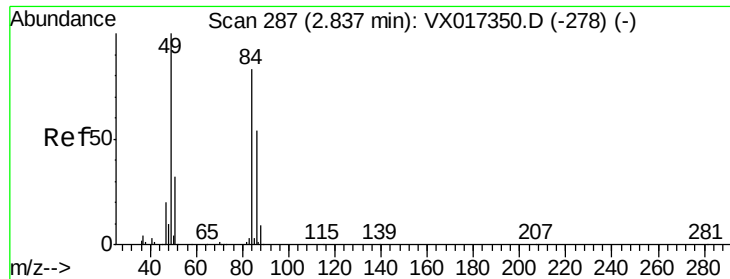
MMDadoda
7/15/2020 11:43:08 AM



#19
Methyl tert-butyl Ether
Concen: 0.218 ug/l
RT: 3.17 min Scan# 342
Delta R.T. 0.01 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Tgt Ion: 73 Resp: 2006
Ion Ratio Lower Upper
73 100
57 30.4 17.5 26.3#





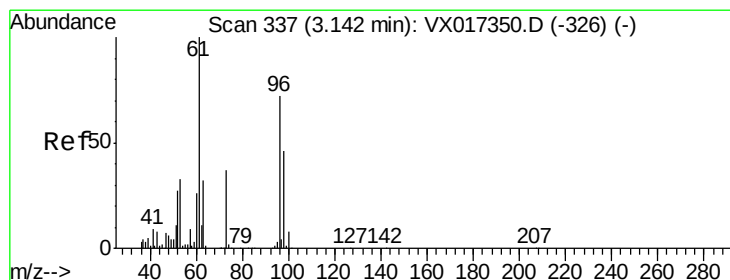
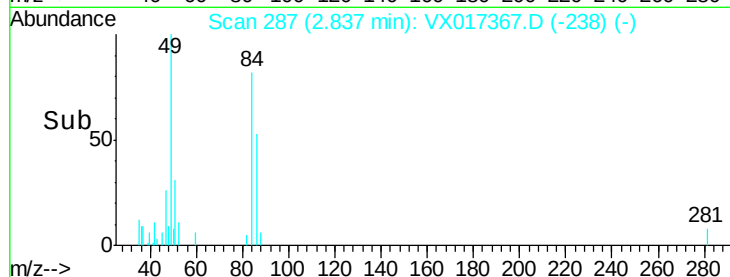
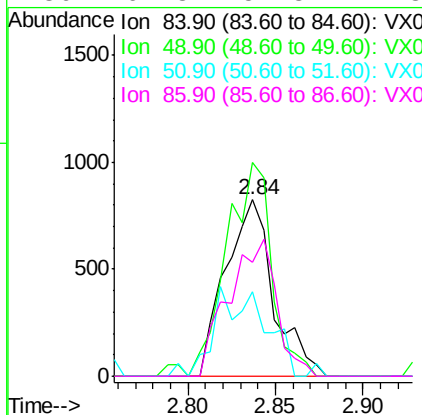
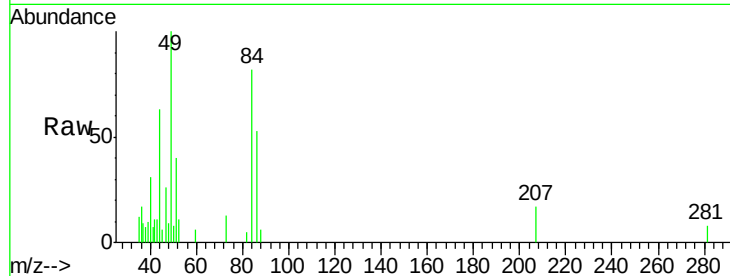
#20
Methylene Chloride
Concen: 0.483 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT3-2020

Tot Ion:	84	Resp:	1574
Ion	Ratio	Lower	Upper
84	100		
49	121.2	95.8	143.8
51	47.9	31.0	46.4#
86	64.8	51.8	77.8

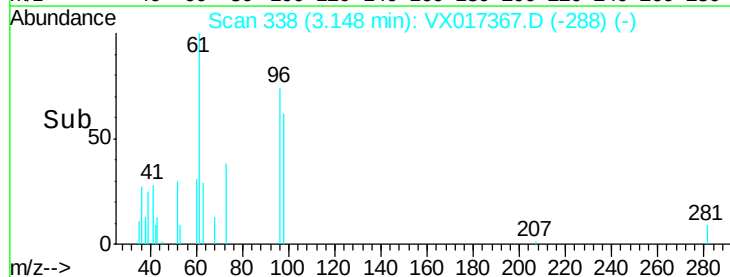
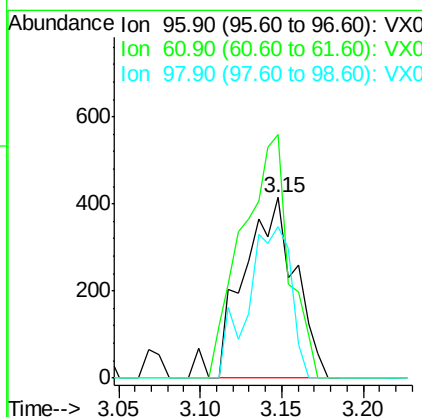
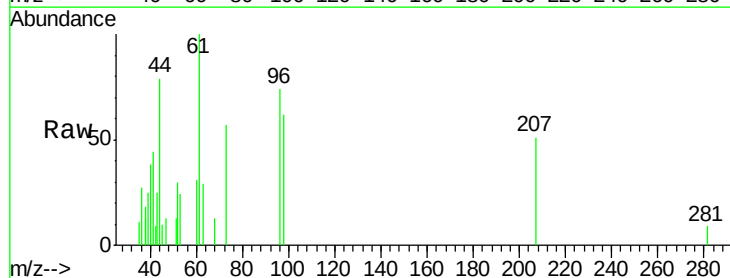
Manual Integrations
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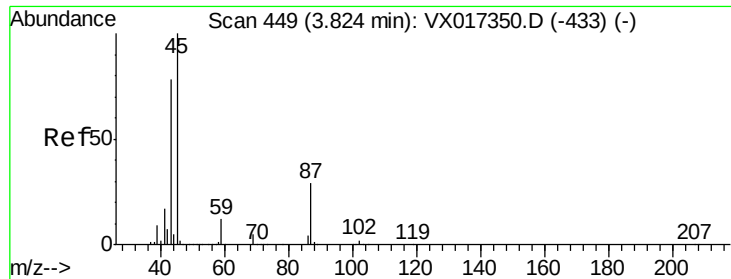
MMDadoda
7/15/2020 11:43:08 AM



#21
trans-1,2-Dichloroethene
Concen: 0.296 ug/l
RT: 3.15 min Scan# 338
Delta R.T. 0.01 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Tgt Ion:	96	Resp:	918
Ion	Ratio	Lower	Upper
96	100		
61	134.7	111.1	166.7
98	83.6	51.4	77.0#





#22

Diisopropyl ether

Concen: 0.262 ug/l

RT: 3.82 min Scan# 449

Delta R.T. 0.00 min

Lab File: VX017367.D

Acq: 14 Jul 2020 10:41

Instrument :

MSVOA_X

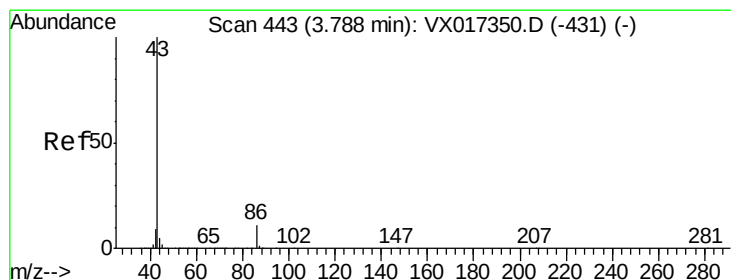
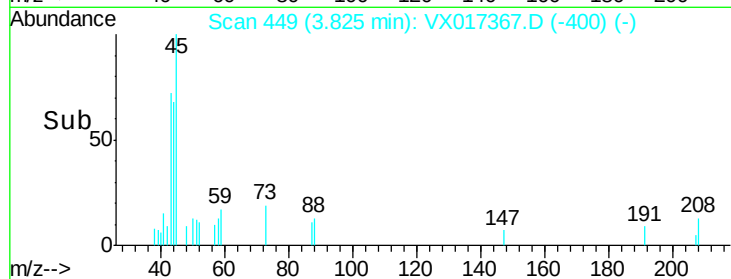
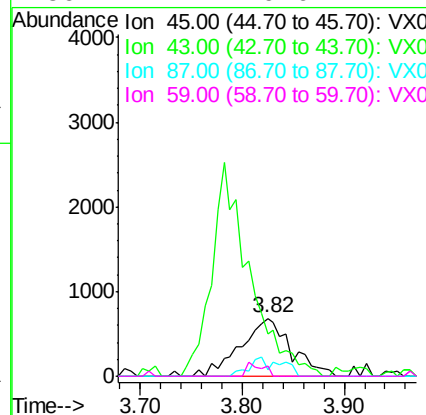
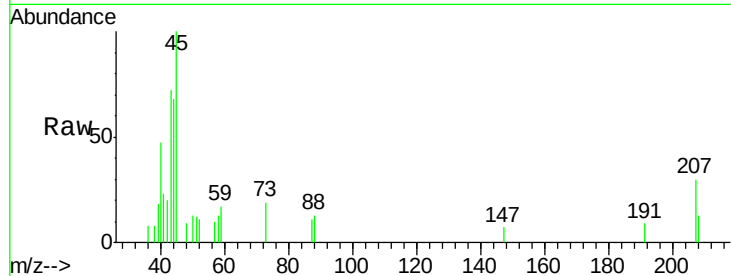
ClientSampleId :

MDL-WATER-03-QT3-2020

Tot Ion	Ratio	Lower	Upper
45	100		
43	64.5	62.2	93.2
87	11.3	23.0	34.6#
59	17.4	9.6	14.4#

Manual Integrations
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#23

Vinyl Acetate

Concen: 0.830 ug/l

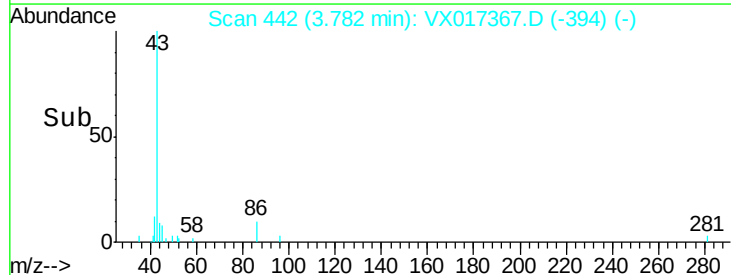
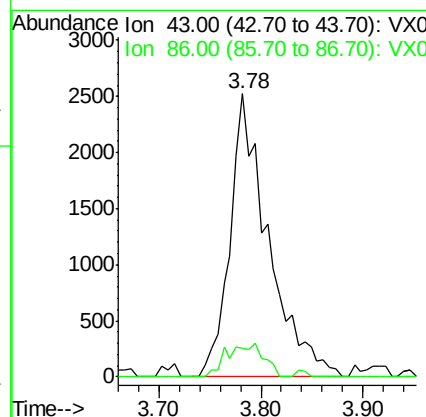
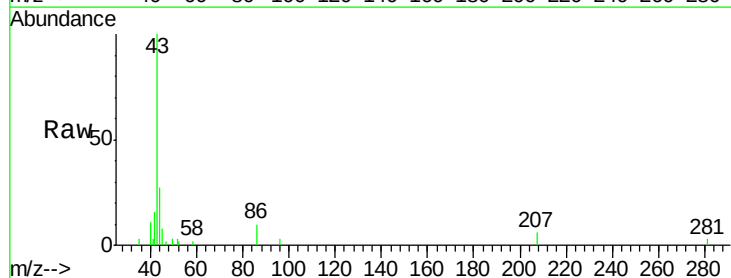
RT: 3.78 min Scan# 442

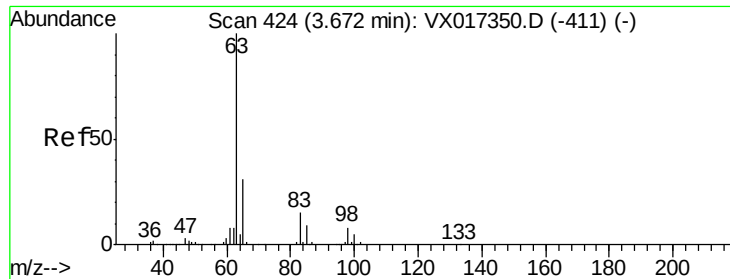
Delta R.T. -0.01 min

Lab File: VX017367.D

Acq: 14 Jul 2020 10:41

Tgt Ion	Ratio	Lower	Upper
43	100		
86	10.2	9.0	13.4





#24

1,1-Dichloroethane

Concen: 0.245 ug/l m

RT: 3.67 min Scan# 424

Delta R.T. 0.00 min

Lab File: VX017367.D

Acq: 14 Jul 2020 10:41

Instrument :

MSVOA_X

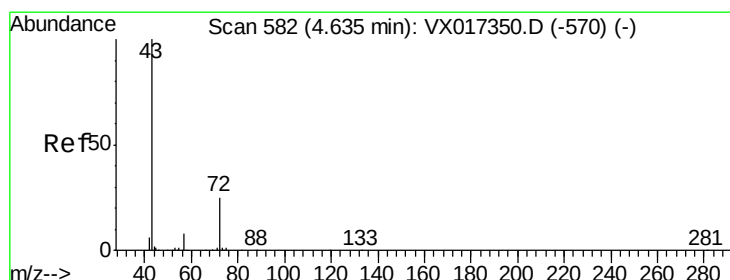
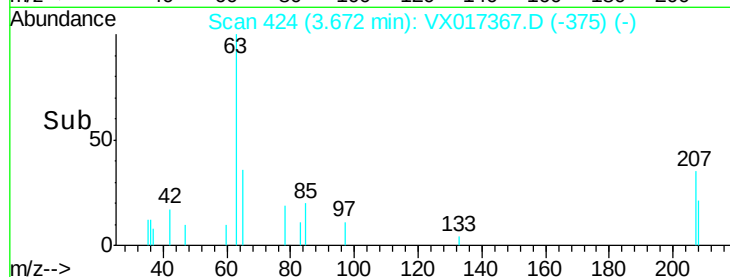
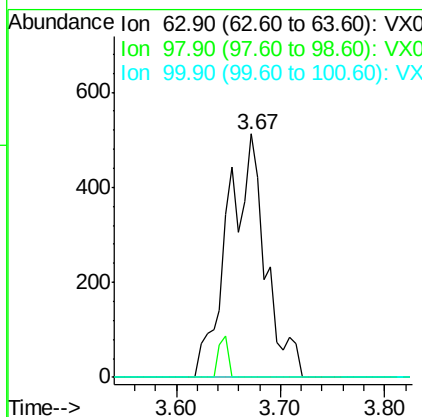
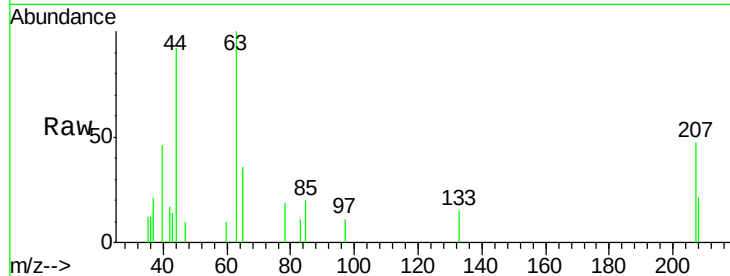
ClientSampleId :

MDL-WATER-03-QT3-2020

Tot Ion:	63	Resp:	1289
Ion Ratio	Lower	Upper	
63	100		
98	0.0	3.9	11.5#
100	0.0	2.5	7.5#

Manual Integrations
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#25

2-Butanone

Concen: 1.207 ug/l

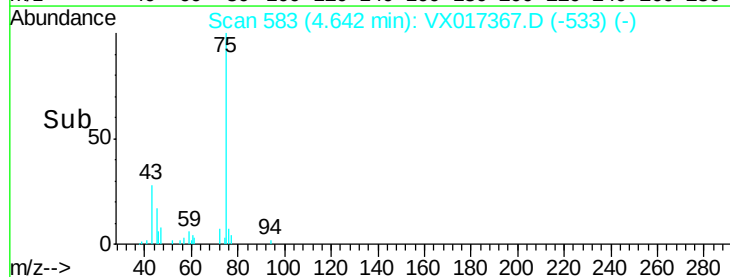
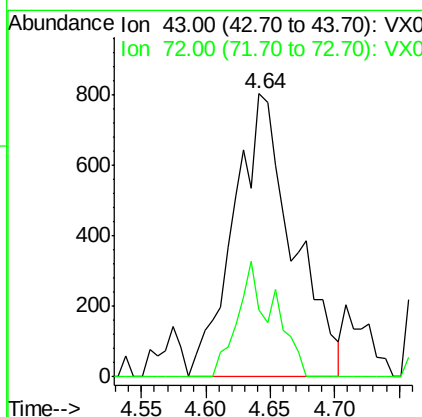
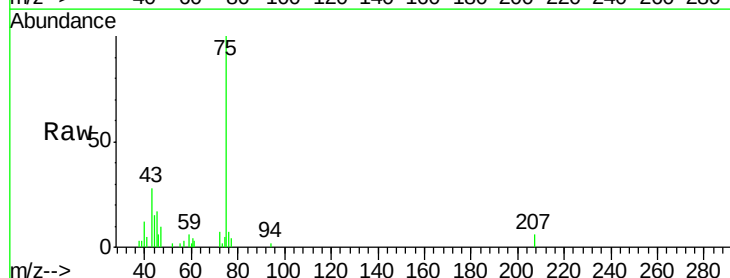
RT: 4.64 min Scan# 583

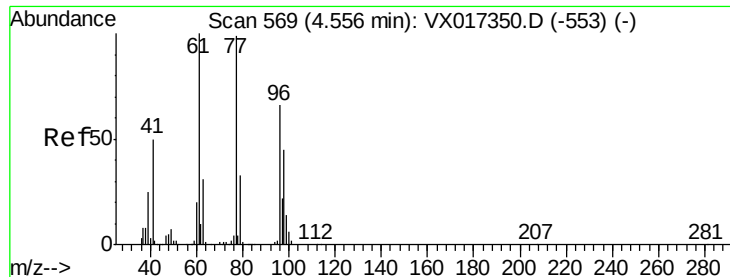
Delta R.T. 0.01 min

Lab File: VX017367.D

Acq: 14 Jul 2020 10:41

Tgt Ion:	43	Resp:	2560
Ion Ratio	Lower	Upper	
43	100		
72	23.9	20.4	30.6





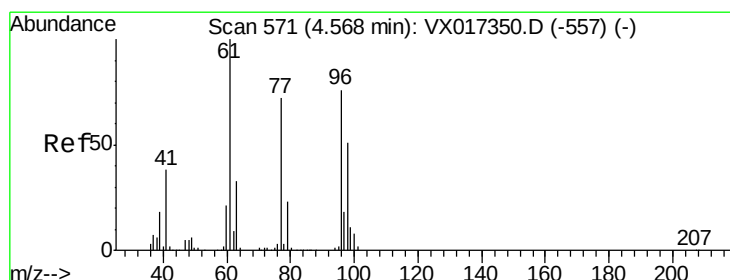
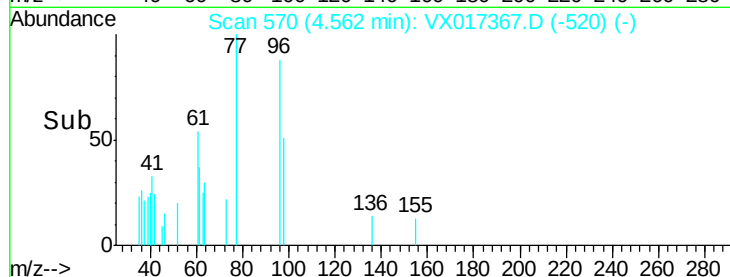
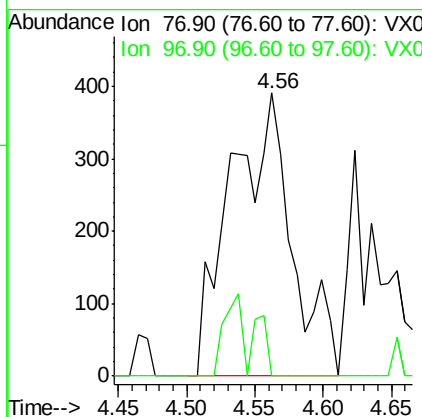
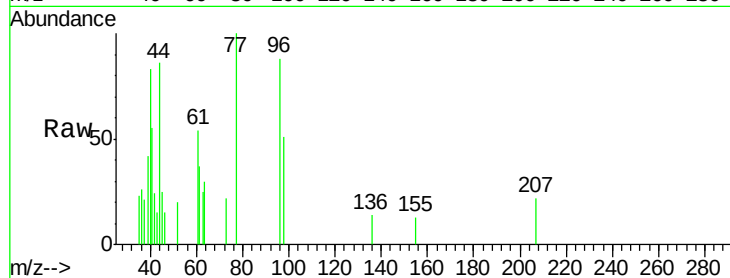
#26
 2,2-Dichloropropane
 Concen: 0.249 ug/l m
 RT: 4.56 min Scan# 570
 Delta R.T. 0.01 min
 Lab File: VX017367.D
 Acq: 14 Jul 2020 10:41

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT3-2020

Tot Ion	Ratio	Lower	Upper
77	100		
97	8.4	11.1	33.3#

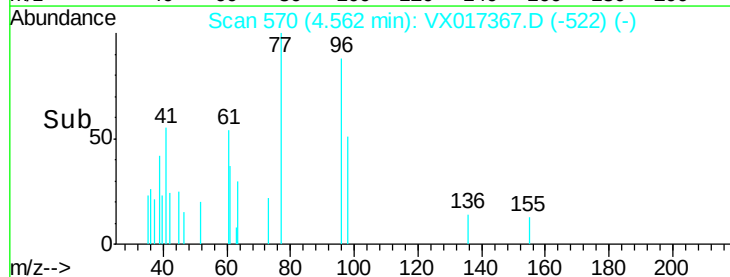
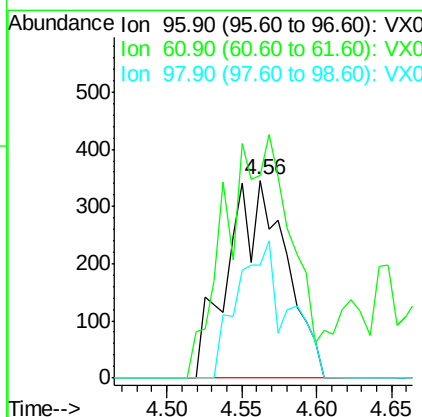
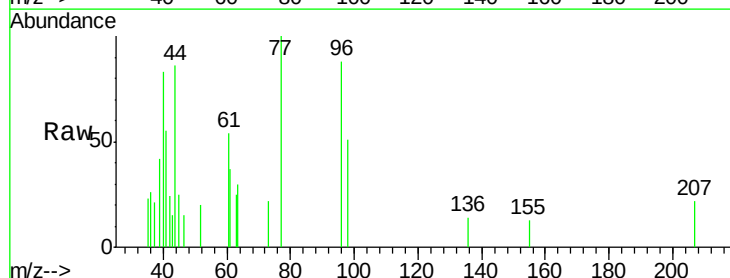
Manual Integrations
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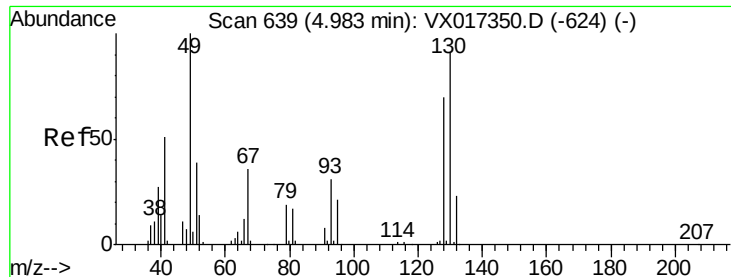
MMDadoda
 7/15/2020 11:43:08 AM



#27
 cis-1,2-Dichloroethene
 Concen: 0.275 ug/l m
 RT: 4.56 min Scan# 570
 Delta R.T. -0.01 min
 Lab File: VX017367.D
 Acq: 14 Jul 2020 10:41

Tgt Ion	Ratio	Lower	Upper
96	100		
61	142.9	0.0	281.2
98	59.9	0.0	131.4





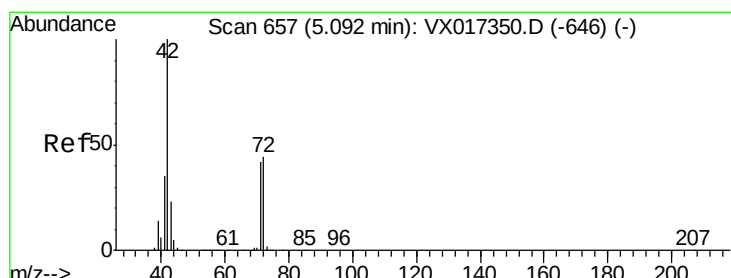
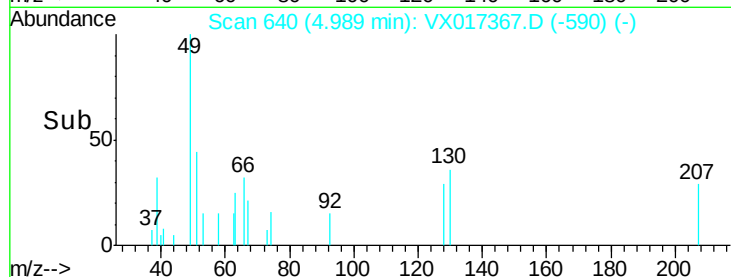
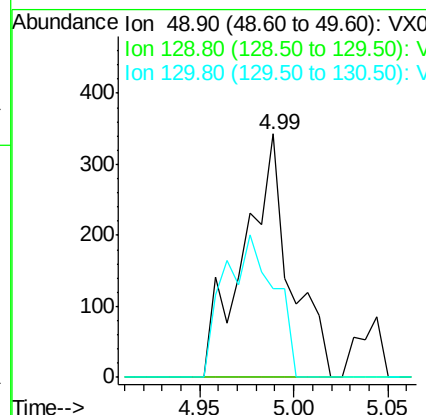
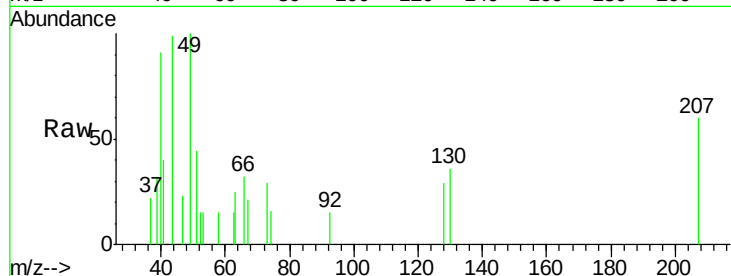
#28
Bromochloromethane
Concen: 0.241 ug/l
RT: 4.99 min Scan# 640
Delta R.T. 0.01 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT3-2020

Tot Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.8
130	63.1	71.1	106.7#

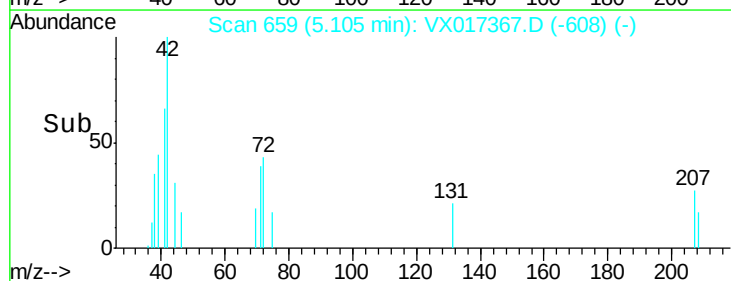
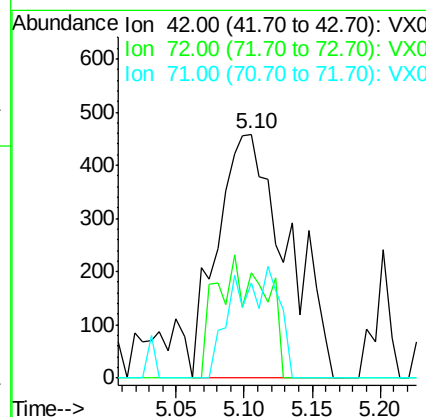
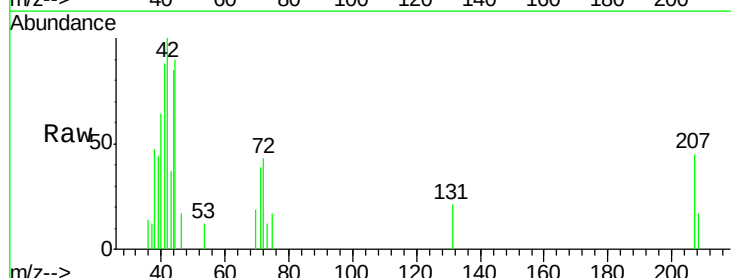
Manual Integrations
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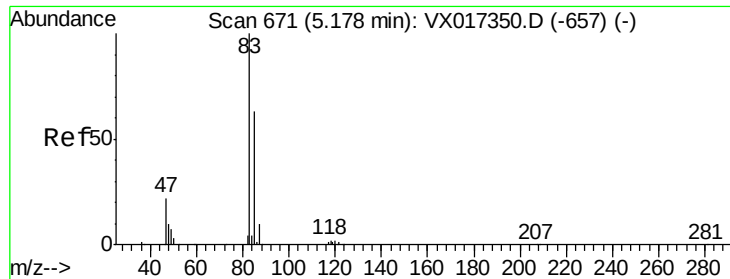
MMDadoda
7/15/2020 11:43:08 AM



#29
Tetrahydrofuran
Concen: 1.193 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.01 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	37.2	55.8#
71	11.4	34.4	51.6#





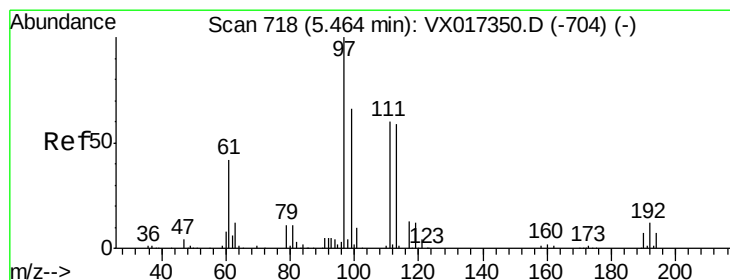
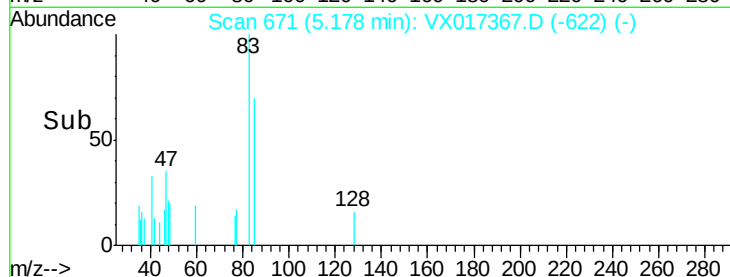
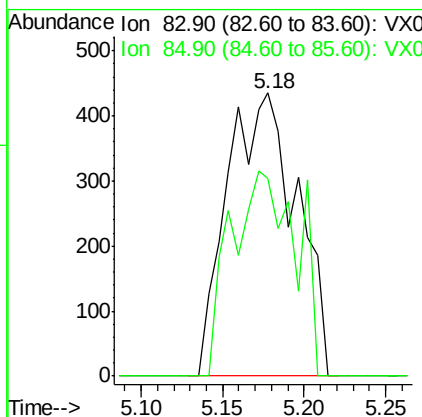
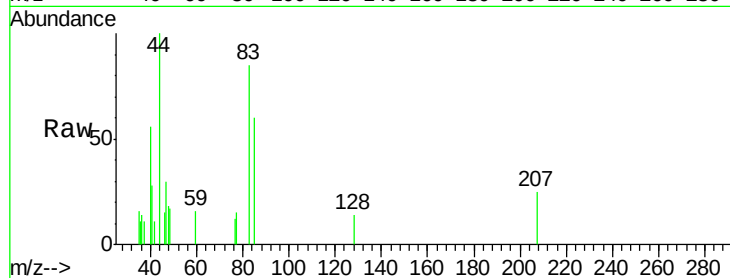
#30
Chloroform
Concen: 0.229 ug/l
RT: 5.18 min Scan# 671
Delta R.T. 0.00 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT3-2020

Tot Ion: 83 Resp: 1296
Ion Ratio Lower Upper
83 100
85 69.9 50.2 75.4

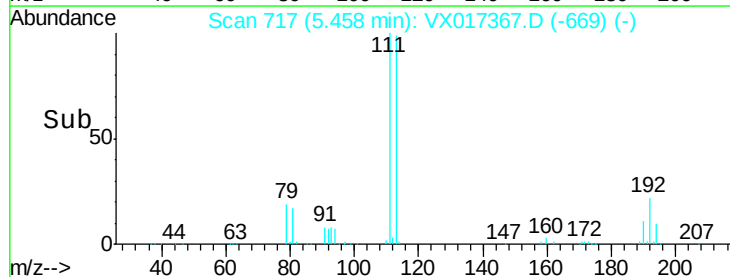
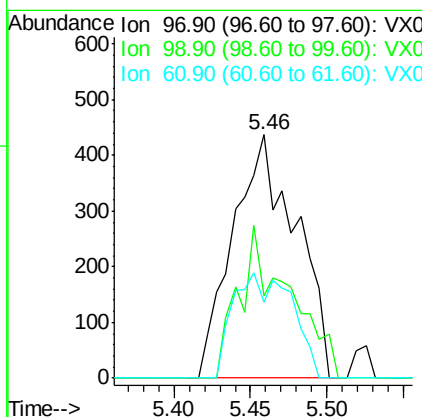
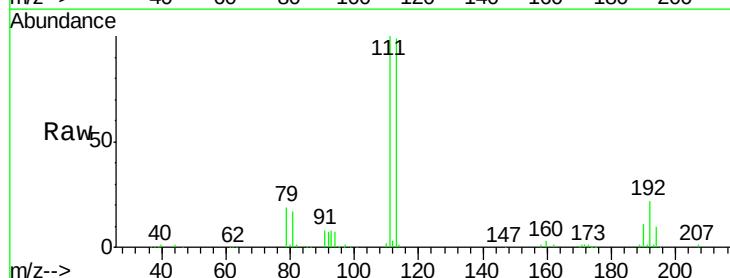
Manual Integrations
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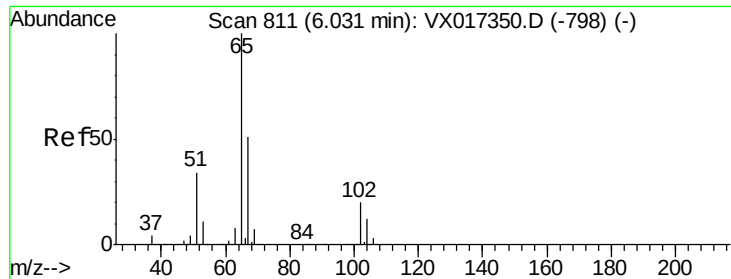
MMDadoda
7/15/2020 11:43:08 AM



#32
1,1,1-Trichloroethane
Concen: 0.239 ug/l
RT: 5.46 min Scan# 717
Delta R.T. -0.01 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Tgt Ion: 97 Resp: 1251
Ion Ratio Lower Upper
97 100
99 0.0 51.2 76.8#
61 21.5 32.7 49.1#





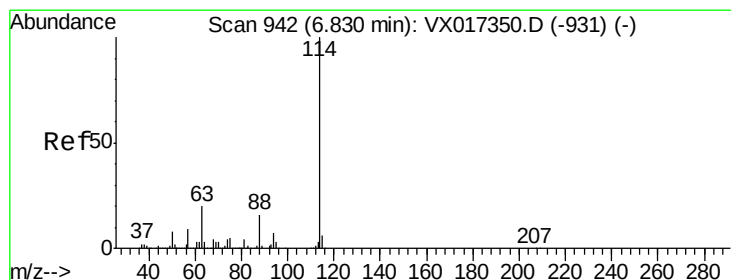
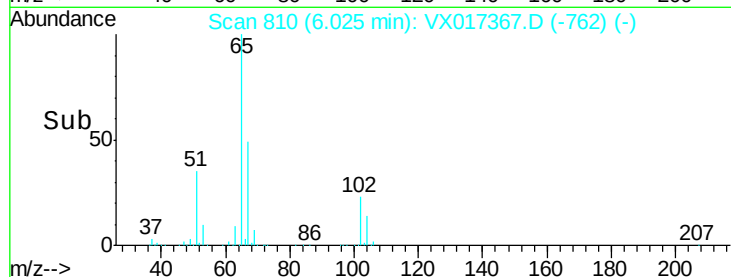
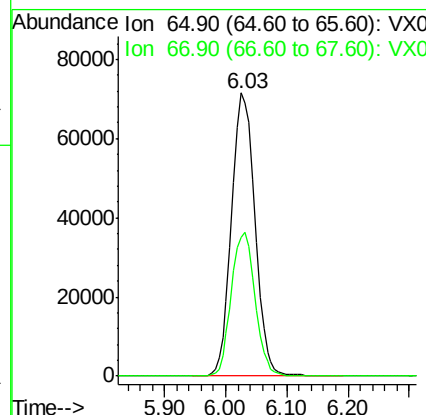
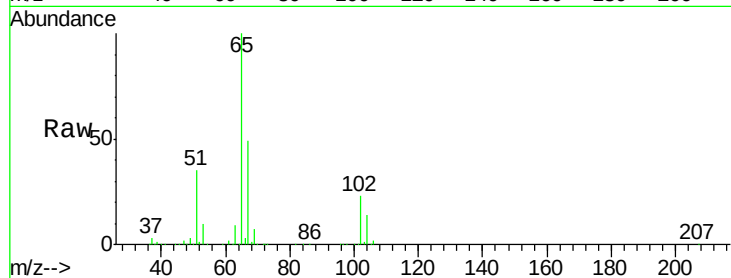
#33
 1,2-Dichloroethane-d4
 Concen: 50.595 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. -0.01 min
 Lab File: VX017367.D
 Acq: 14 Jul 2020 10:41

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT3-2020

Tot Ion	Ratio	Resp	Lower	Upper
65	100	189361		
67	51.2	0.0	101.6	

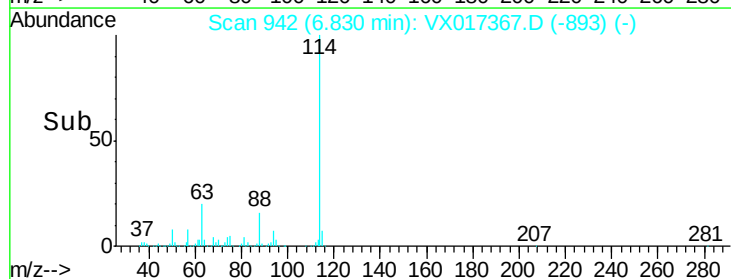
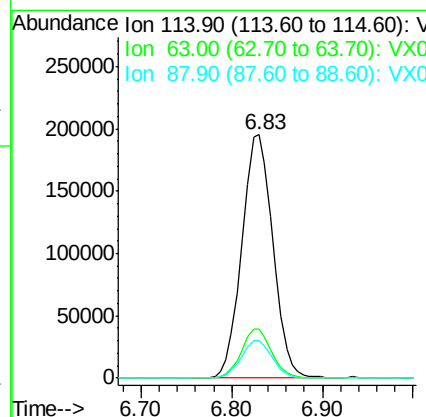
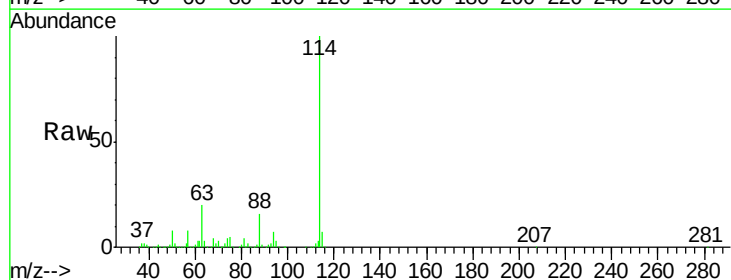
Manual Integrations
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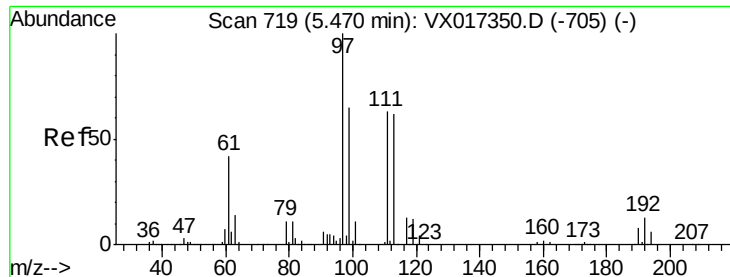
MMDadoda
 7/15/2020 11:43:08 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.00 min
 Lab File: VX017367.D
 Acq: 14 Jul 2020 10:41

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	464708		
63	19.9	0.0	40.0	
88	15.6	0.0	32.8	





#35

Dibromofluoromethane

Concen: 49.362 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX017367.D

Acq: 14 Jul 2020 10:41

Instrument :

MSVOA_X

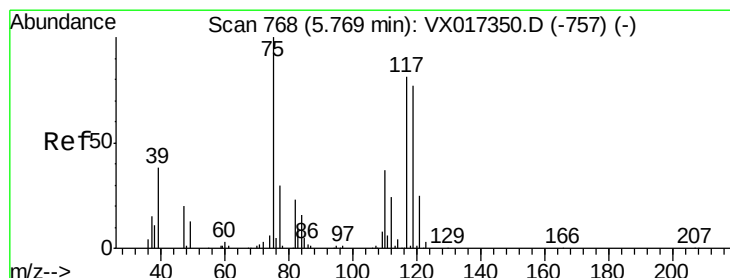
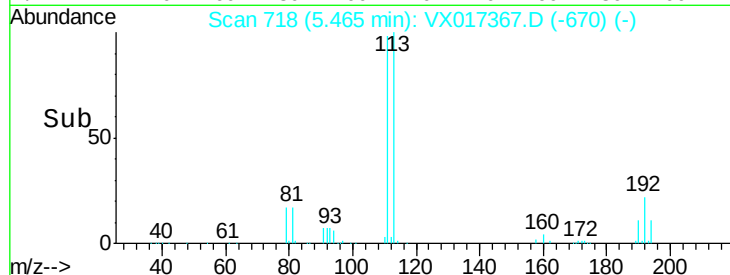
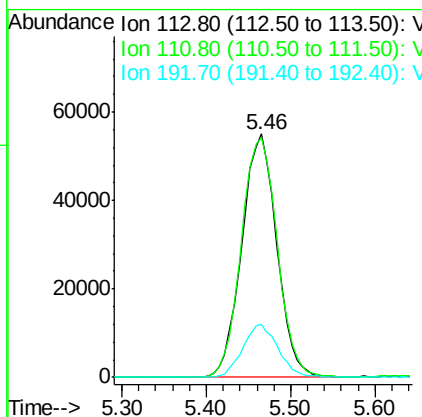
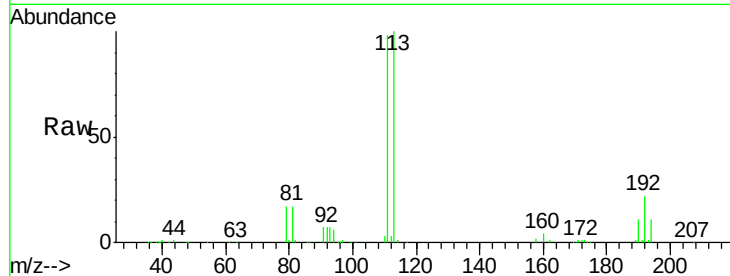
ClientSampleId :

MDL-WATER-03-QT3-2020

Tot Ion:	113	Resp:	154522
Ion Ratio	Lower	Upper	
113	100		
111	101.9	82.4	123.6
192	22.0	17.2	25.8

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7/15/2020 11:43:08 AM



#36

1,1-Dichloropropene

Concen: 0.307 ug/l m

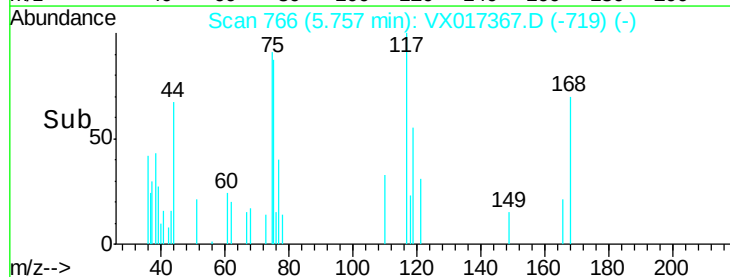
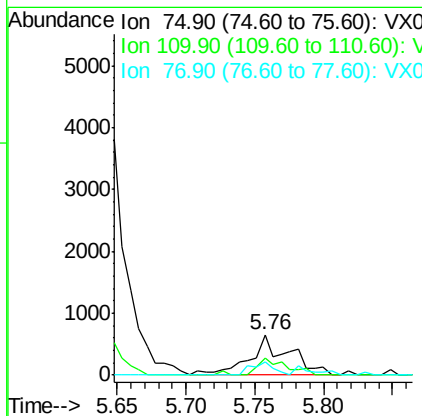
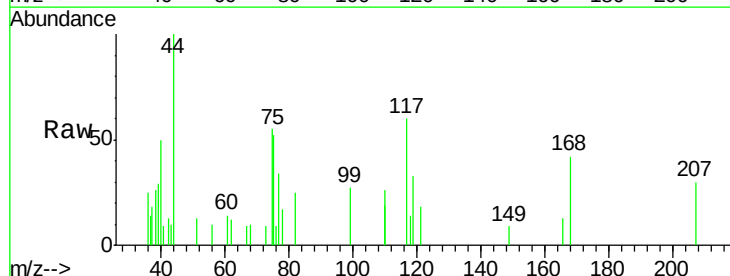
RT: 5.76 min Scan# 766

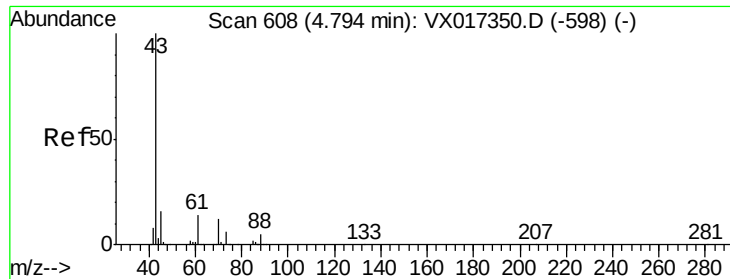
Delta R.T. -0.01 min

Lab File: VX017367.D

Acq: 14 Jul 2020 10:41

Tgt Ion:	75	Resp:	1312
Ion Ratio	Lower	Upper	
75	100		
110	30.3	18.6	55.8
77	18.3	24.9	37.3#





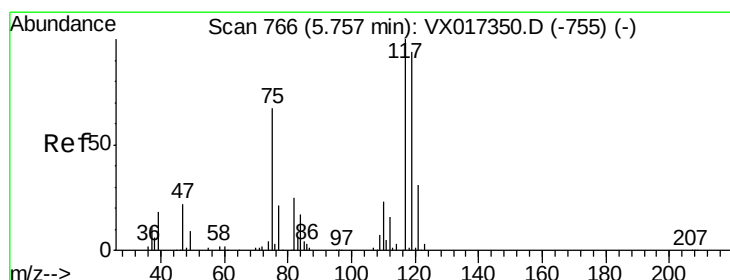
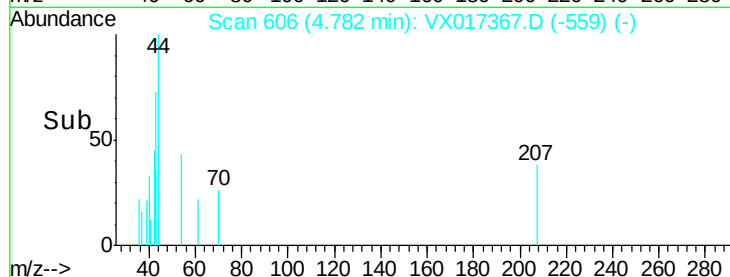
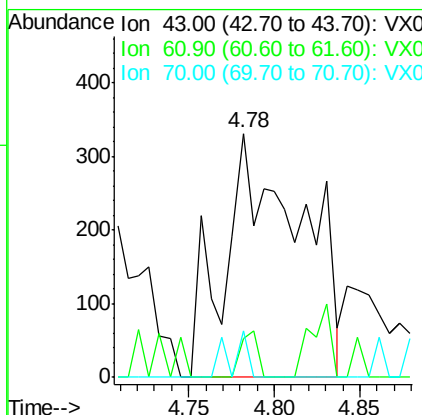
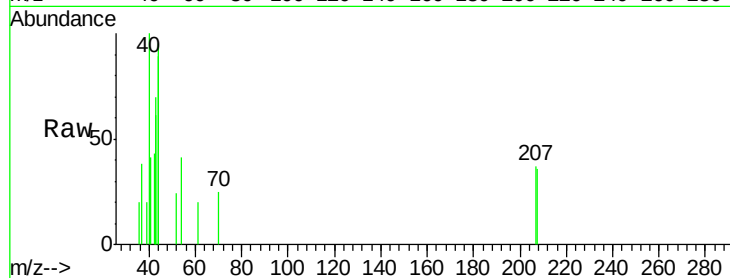
#37
Ethyl Acetate
Concen: 0.231 ug/l m
RT: 4.78 min Scan# 606
Delta R.T. -0.01 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT3-2020

Tot Ion	Ratio	Lower	Upper
43	100		
61	4.1	10.7	16.1#
70	0.0	9.0	13.6#

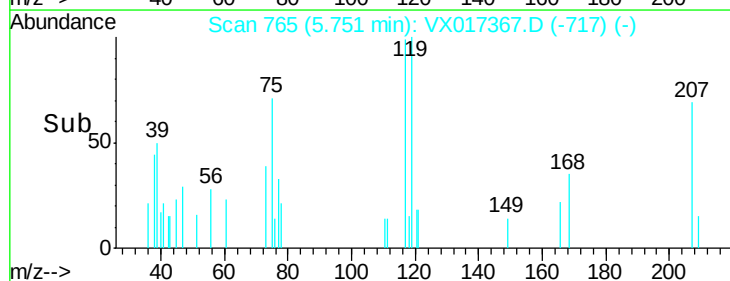
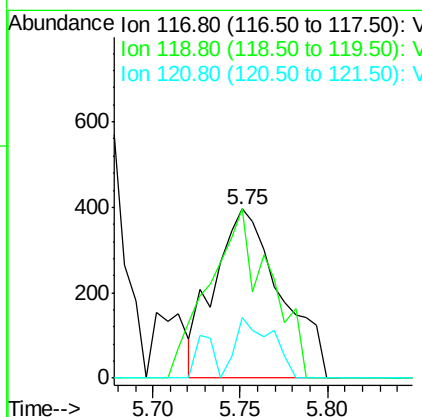
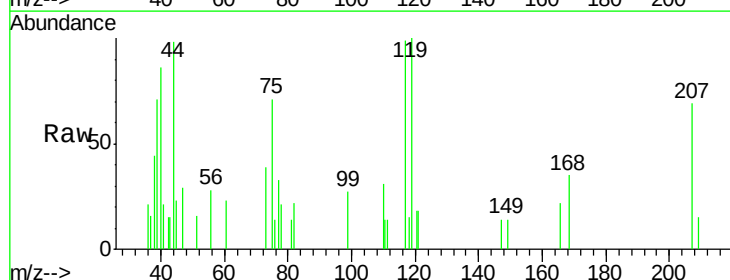
Manual Integrations
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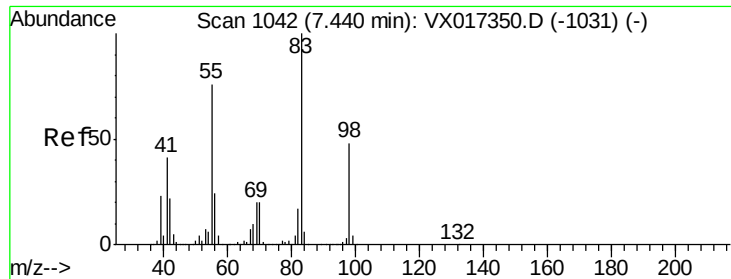
MMDadoda
7/15/2020 11:43:08 AM



#38
Carbon Tetrachloride
Concen: 0.209 ug/l
RT: 5.75 min Scan# 765
Delta R.T. -0.01 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Tgt Ion	Ratio	Lower	Upper
117	100		
119	100.5	74.7	112.1
121	36.1	24.5	36.7





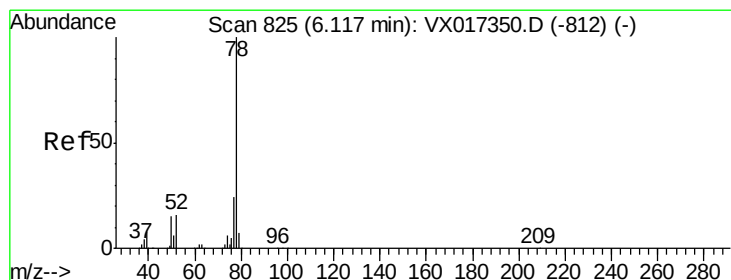
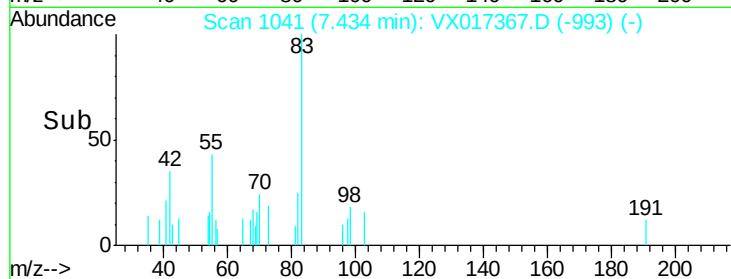
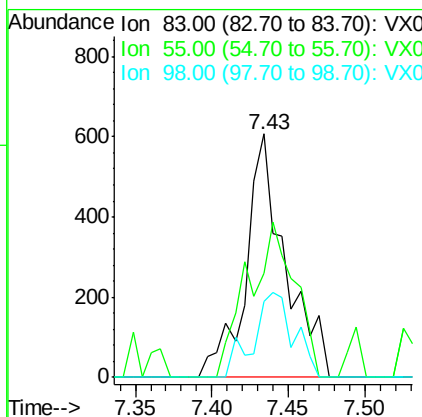
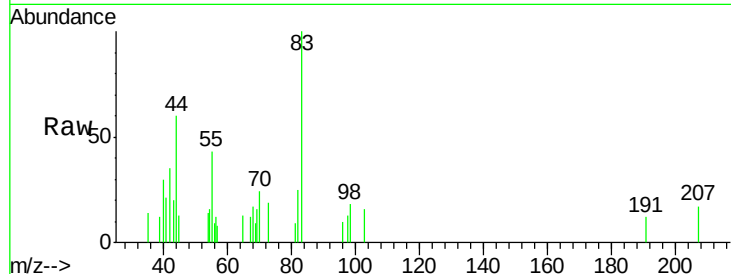
#39
Methylvlcyclohexane
Concen: 0.234 ug/l
RT: 7.43 min Scan# 1041
Delta R.T. -0.01 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT3-2020

Tot Ion	Ratio	Lower	Upper
83	100		
55	43.0	61.2	91.8#
98	31.0	38.1	57.1#

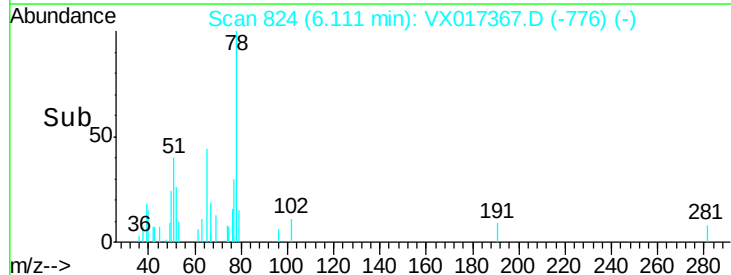
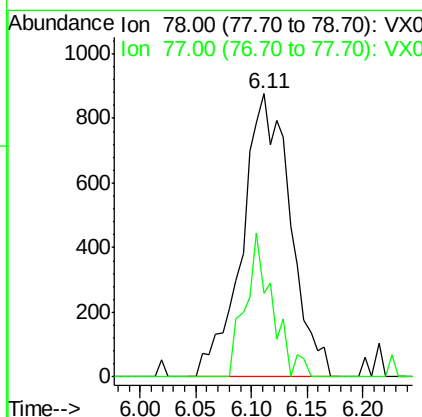
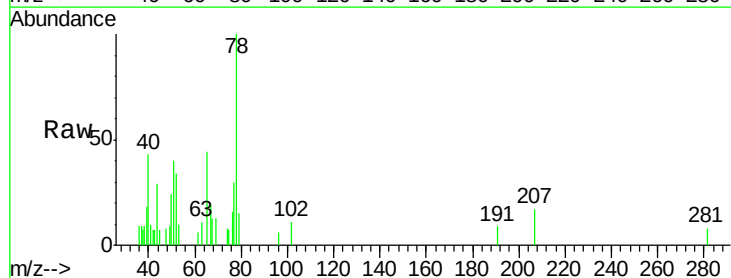
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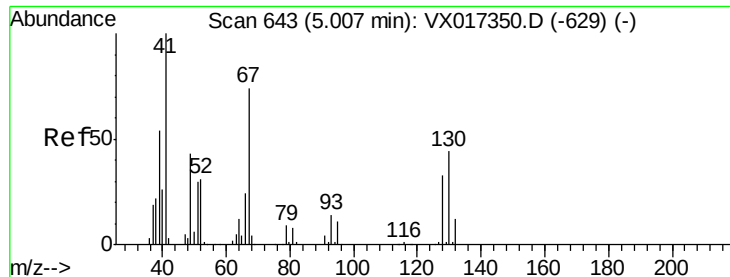
MMDadoda
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#40
Benzene
Concen: 0.215 ug/l
RT: 6.11 min Scan# 824
Delta R.T. -0.01 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Tgt Ion	Ratio	Lower	Upper
78	100		
77	29.6	18.9	28.3#





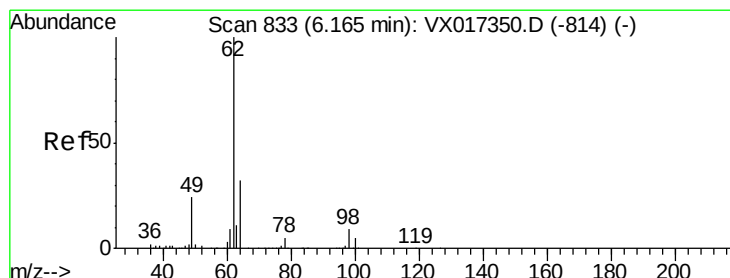
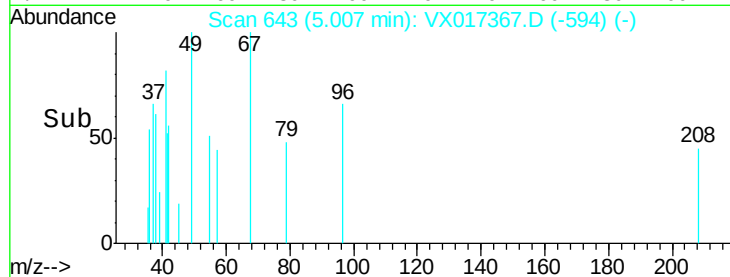
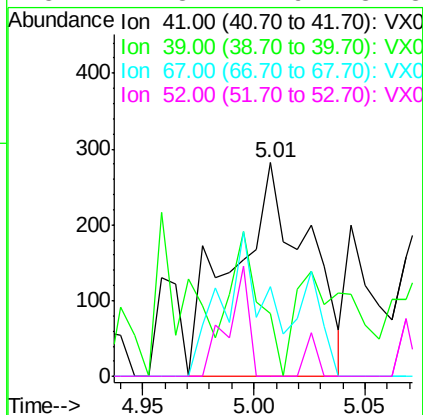
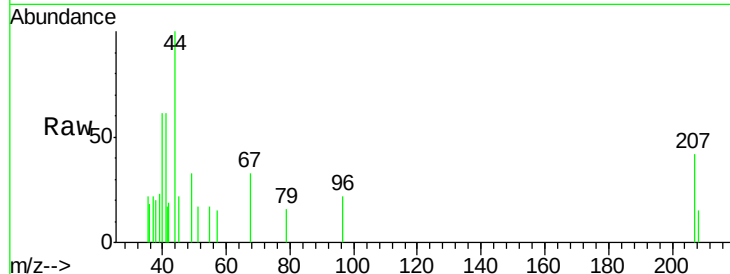
#41
Methacrylonitrile
Concen: 0.277 ug/l
RT: 5.01 min Scan# 643
Delta R.T. 0.00 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT3-2020

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	26.9	43.8	65.8#	
67	39.0	58.7	88.1#	
52	14.8	24.9	37.3#	

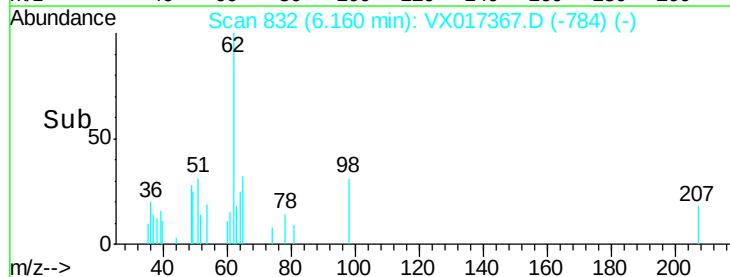
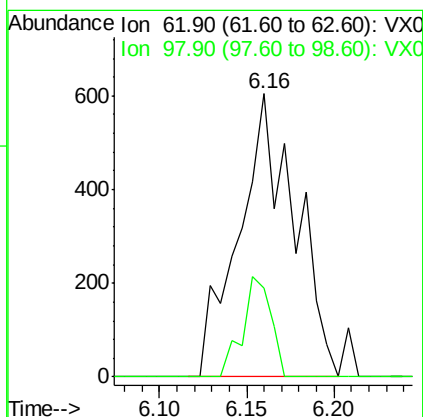
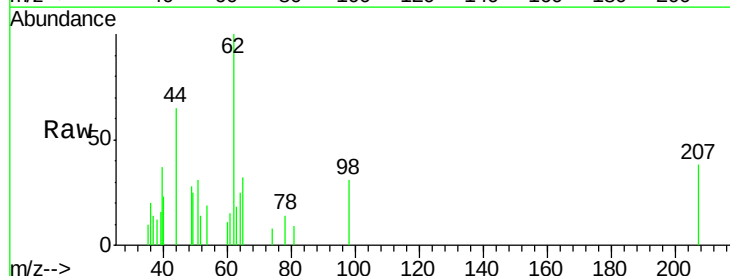
Manual Integrations
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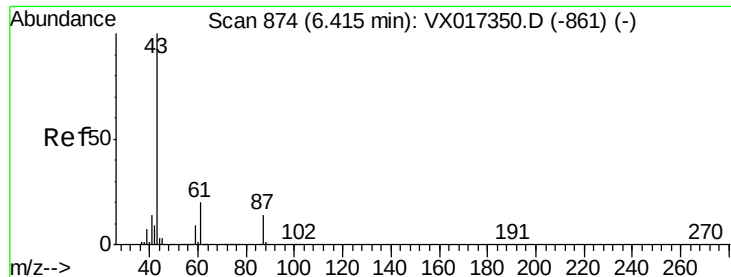
MMDadoda
7/15/2020 11:43:08 AM



#42
1,2-Dichloroethane
Concen: 0.283 ug/l
RT: 6.16 min Scan# 832
Delta R.T. -0.01 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	17.7	0.0	19.4	





#43

Isopropyl Acetate

Concen: 0.221 ug/l

RT: 6.40 min Scan# 872

Delta R.T. -0.01 min

Lab File: VX017367.D

Acq: 14 Jul 2020 10:41

Instrument :

MSVOA_X

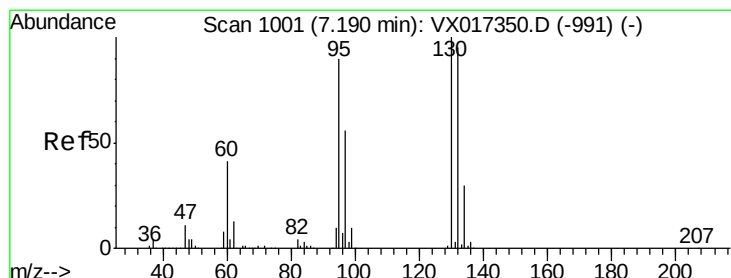
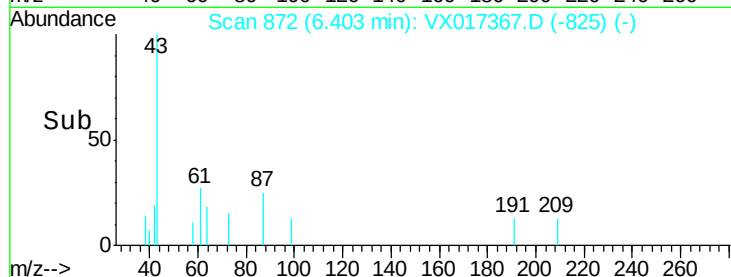
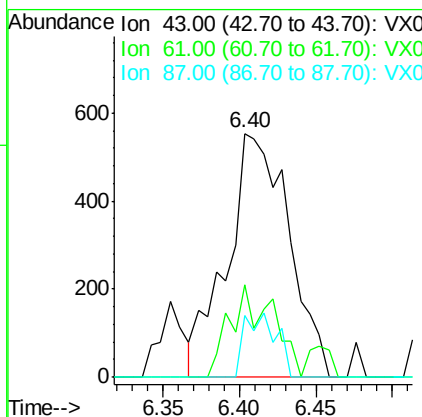
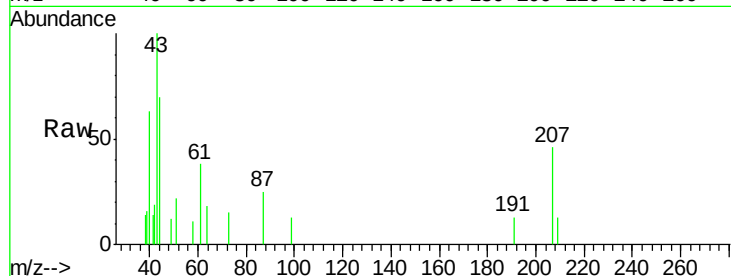
ClientSampleId :

MDL-WATER-03-QT3-2020

Tot Ion:	43	Resp:	1562
Ion	Ratio	Lower	Upper
43	100		
61	26.2	16.4	24.6#
87	13.6	11.2	16.8

Manual Integrations
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#44

Trichloroethene

Concen: 0.242 ug/l

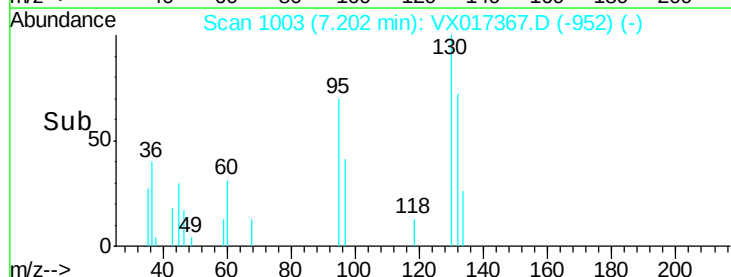
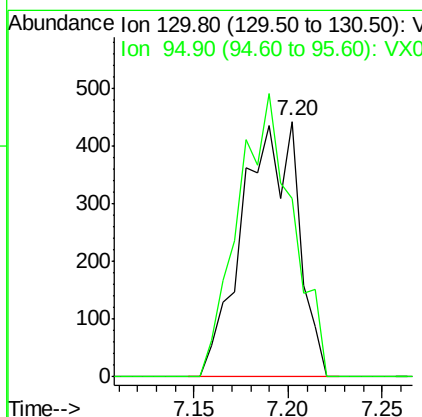
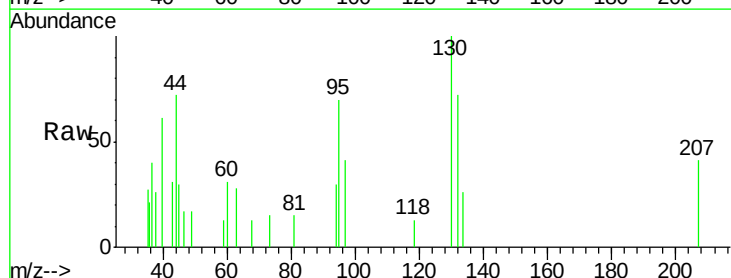
RT: 7.20 min Scan# 1003

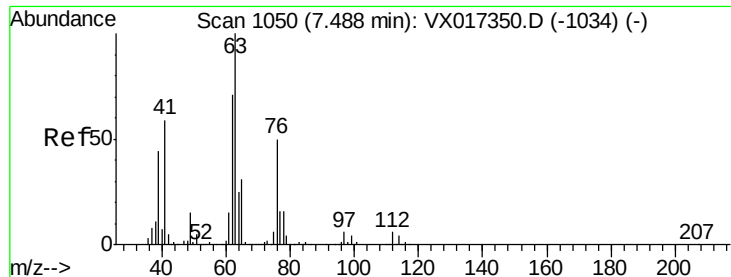
Delta R.T. 0.01 min

Lab File: VX017367.D

Acq: 14 Jul 2020 10:41

Tgt Ion:	130	Resp:	907
Ion	Ratio	Lower	Upper
130	100		
95	69.8	0.0	180.2





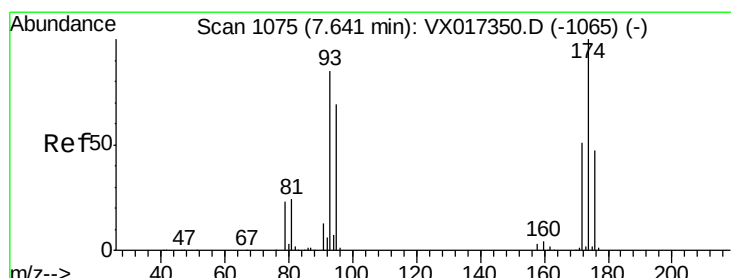
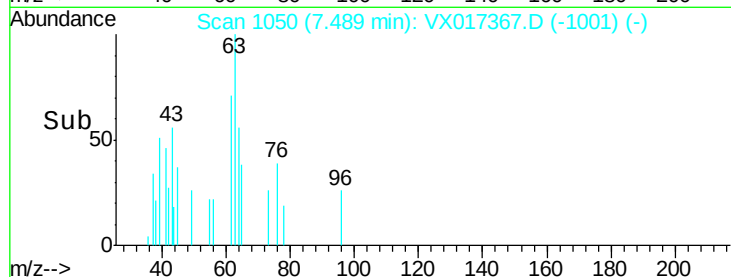
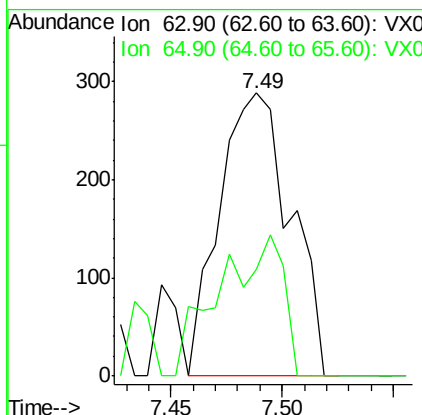
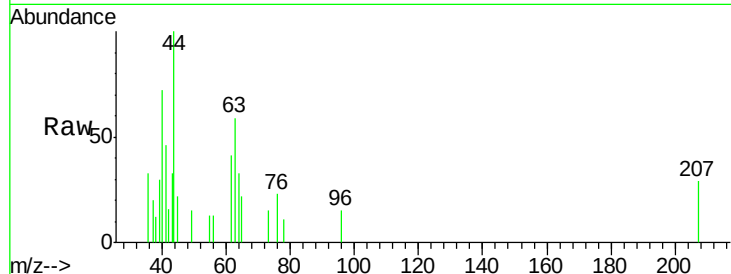
#45
 1,2-Dichloropropane
 Concen: 0.204 ug/l
 RT: 7.49 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VX017367.D
 Acq: 14 Jul 2020 10:41

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT3-2020

Tot Ion	Ratio	Lower	Upper
63	100		
65	37.5	24.5	36.7#

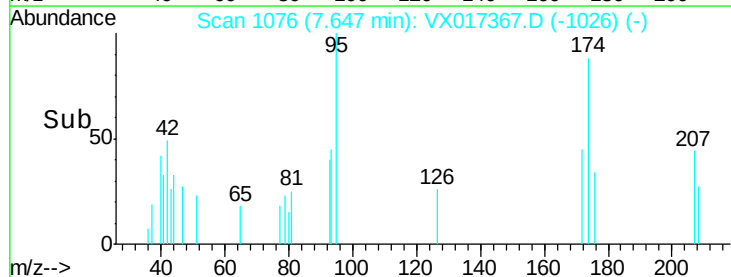
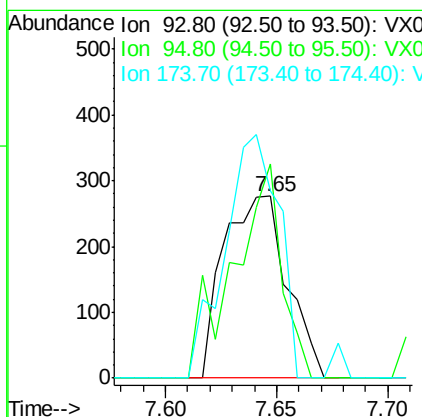
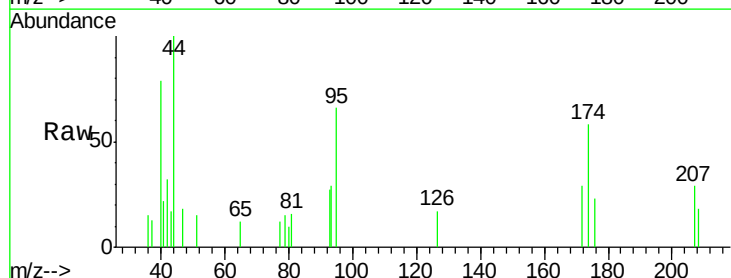
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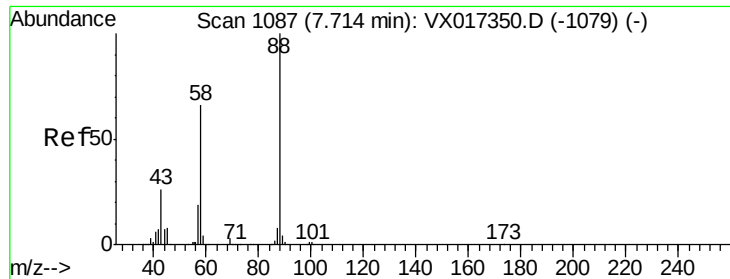
MMDadoda
 7/15/2020 11:43:08 AM



#46
 Dibromomethane
 Concen: 0.242 ug/l
 RT: 7.65 min Scan# 1076
 Delta R.T. 0.01 min
 Lab File: VX017367.D
 Acq: 14 Jul 2020 10:41

Tgt Ion	Ratio	Lower	Upper
93	100		
95	89.6	65.4	98.2
174	113.8	91.2	136.8





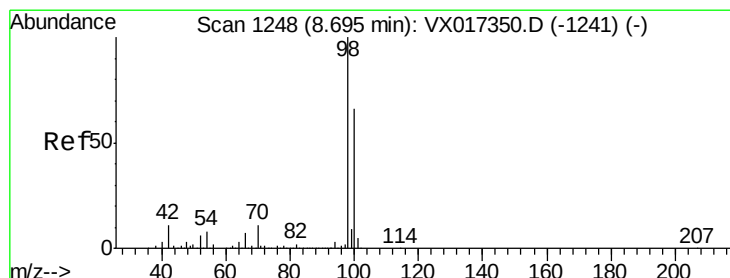
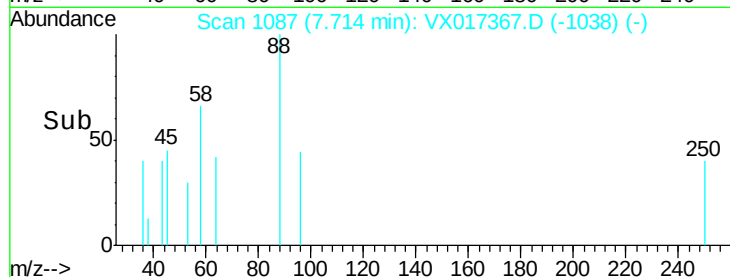
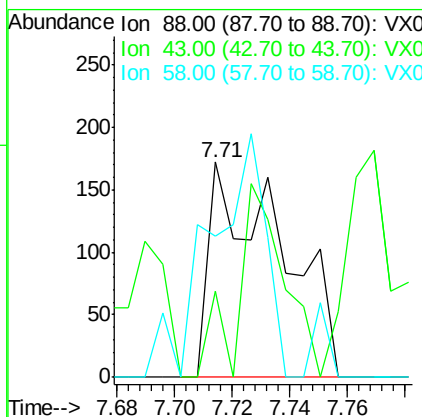
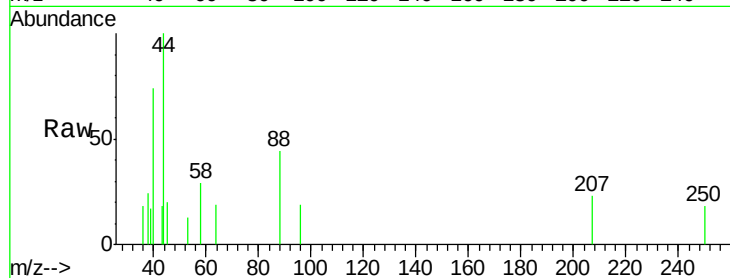
#49
1,4-Dioxane
Concen: 4.325 ug/l m
RT: 7.71 min Scan# 1087
Delta R.T. 0.00 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT3-2020

Tot Ion	Ratio	Lower	Upper
88	100		
43	58.0	25.6	38.4#
58	87.3	53.9	80.9#

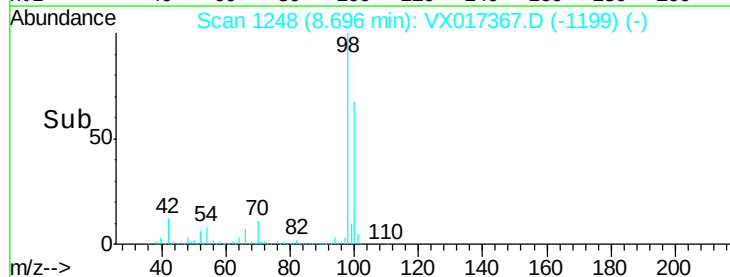
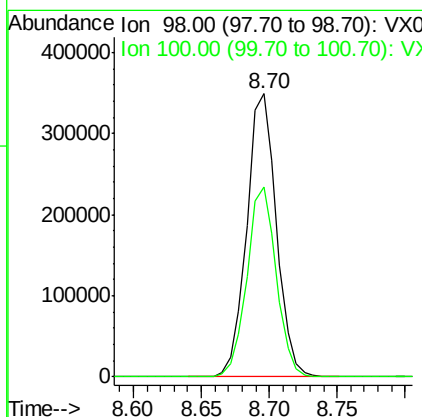
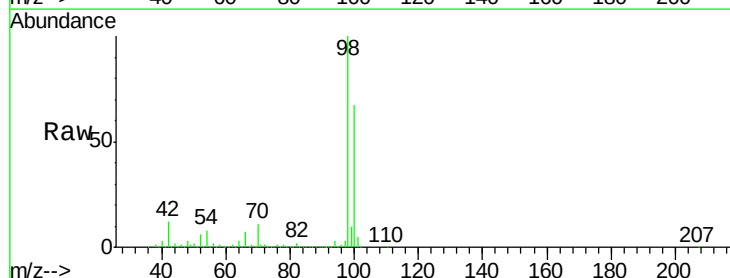
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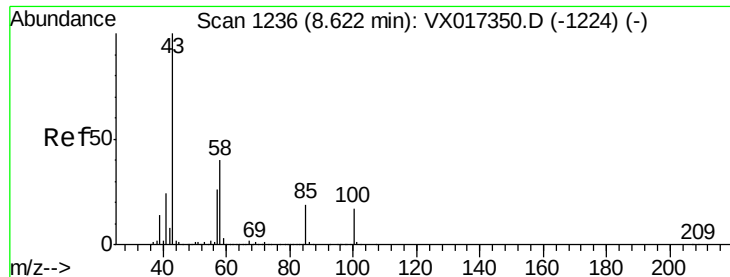
MMDadoda
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#50
Toluene-d8
Concen: 47.352 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.4	53.4	80.2





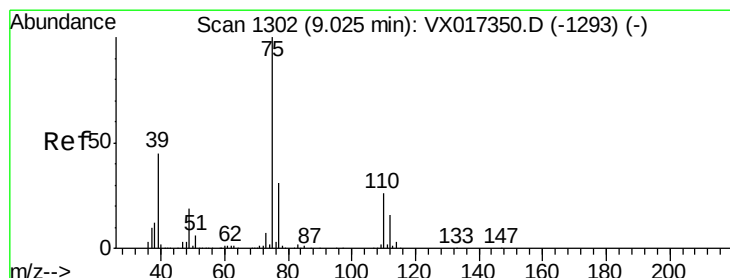
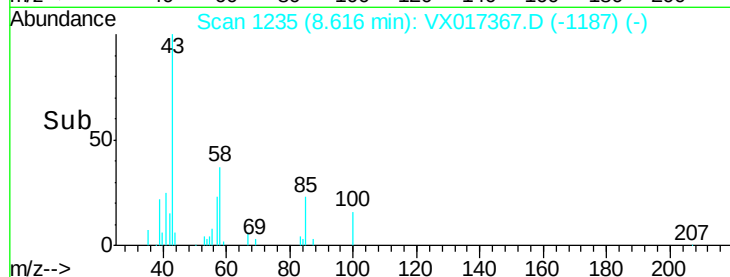
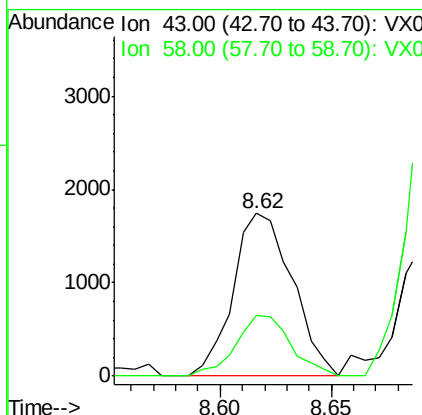
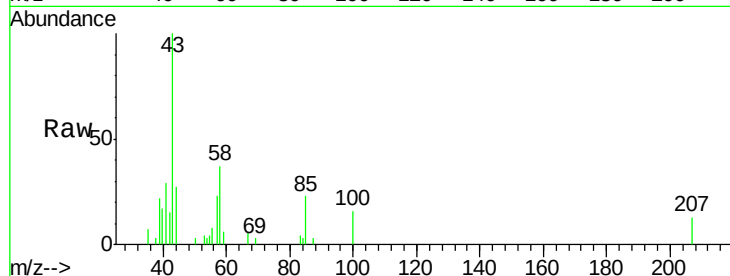
#51
4-Methyl-2-Pentanone
Concen: 0.752 ug/l
RT: 8.62 min Scan# 1235
Delta R.T. -0.01 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT3-2020

Tot Ion: 43 Resp: 3238
Ion Ratio Lower Upper
43 100
58 34.7 32.2 48.2

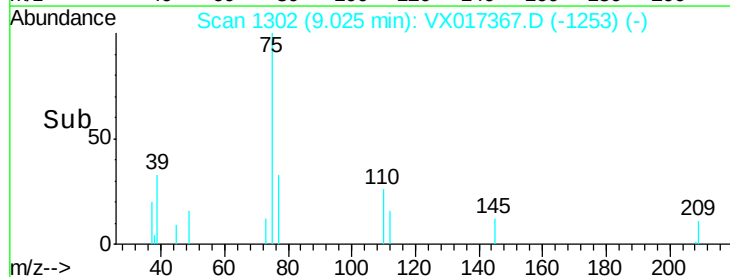
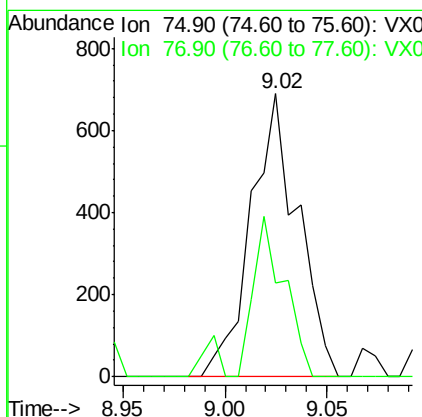
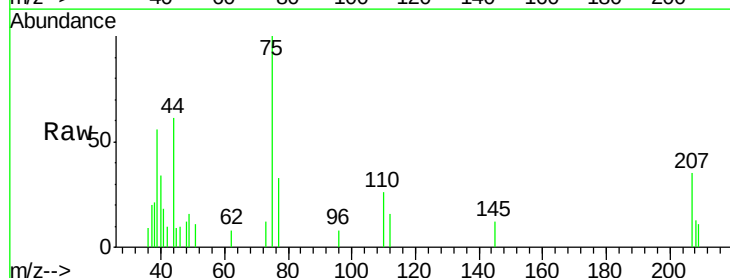
Manual Integrations
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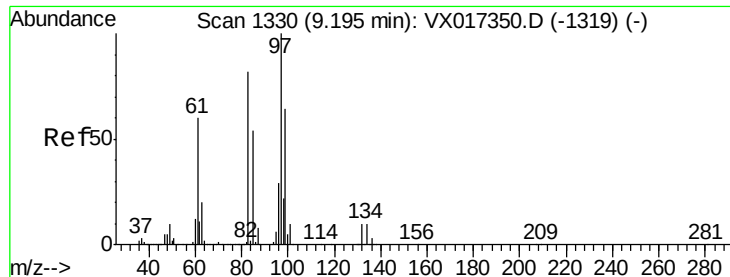
MMDadoda
7/15/2020 11:43:08 AM



#53
t-1,3-Dichloropropene
Concen: 0.217 ug/l
RT: 9.02 min Scan# 1302
Delta R.T. 0.00 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Tgt Ion: 75 Resp: 1110
Ion Ratio Lower Upper
75 100
77 33.2 25.0 37.6





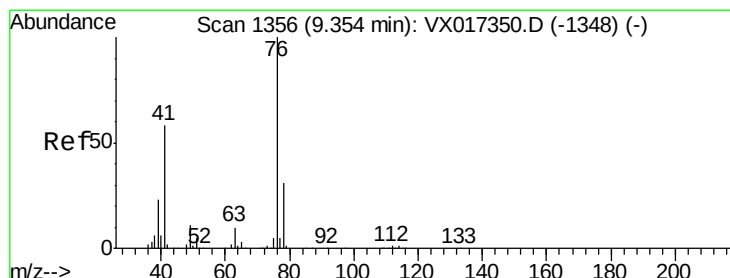
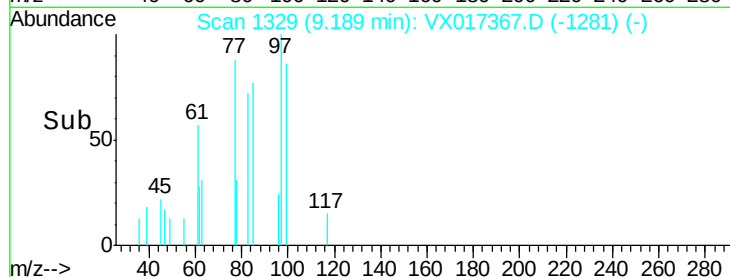
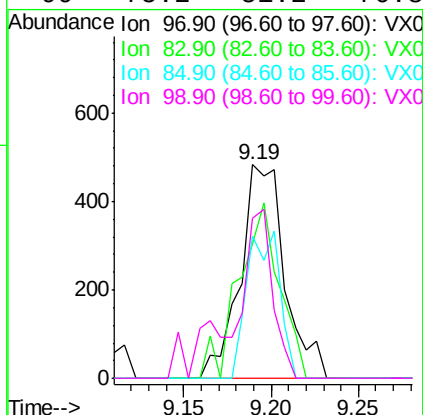
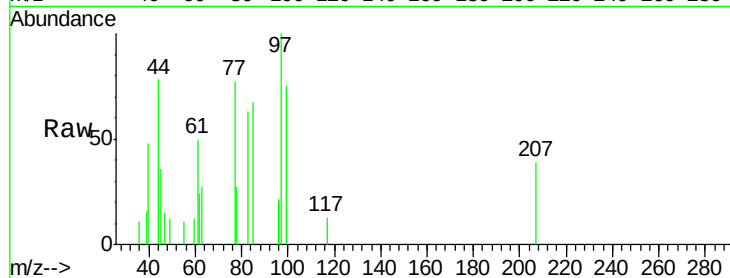
#55
 1,1,2-Trichloroethane
 Concen: 0.263 ug/l
 RT: 9.19 min Scan# 1329
 Delta R.T. -0.01 min
 Lab File: VX017367.D
 Acq: 14 Jul 2020 10:41

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT3-2020

Tot Ion	Ratio	Lower	Upper
97	100		
83	62.9	65.8	98.6#
85	66.9	42.8	64.2#
99	75.2	51.2	76.8

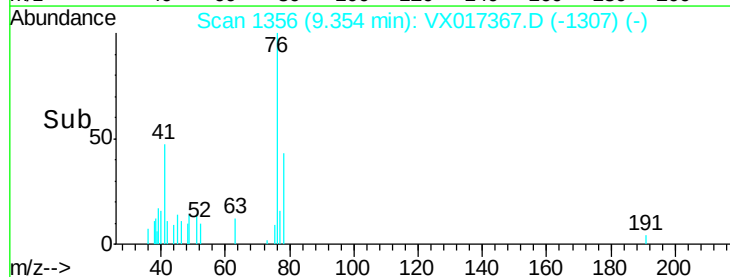
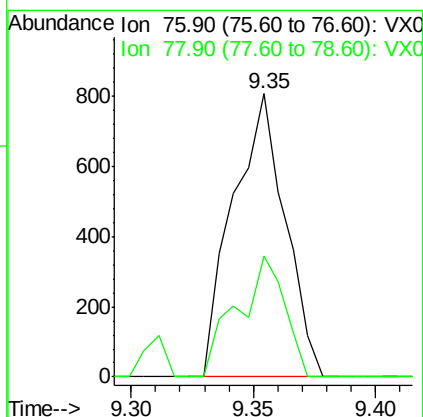
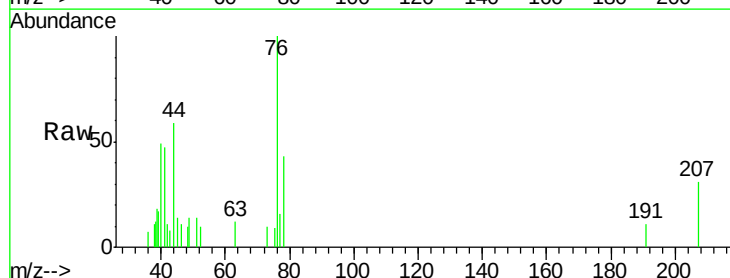
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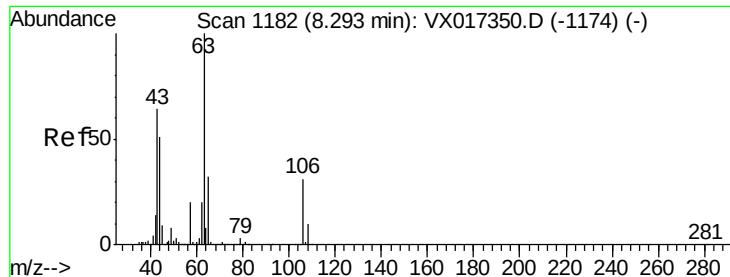
MMDadoda
 7/15/2020 11:43:08 AM



#57
 1,3-Dichloropropane
 Concen: 0.220 ug/l
 RT: 9.35 min Scan# 1356
 Delta R.T. 0.00 min
 Lab File: VX017367.D
 Acq: 14 Jul 2020 10:41

Tgt Ion	Ratio	Lower	Upper
76	100		
78	38.8	25.8	38.6#





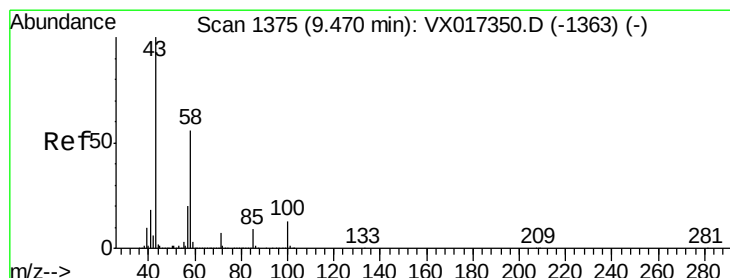
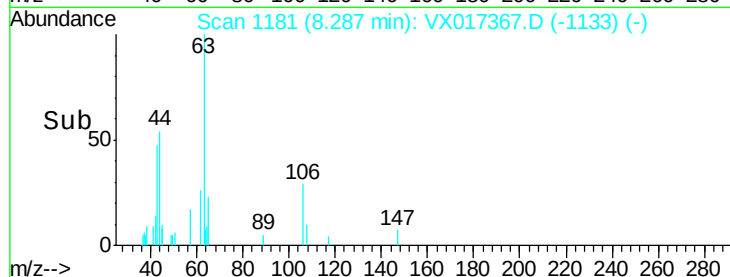
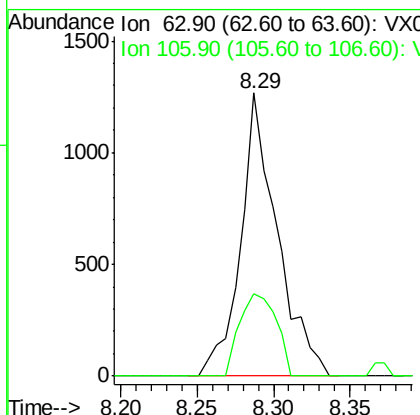
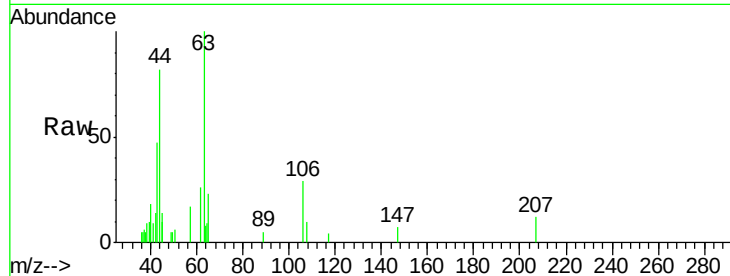
#58
 2-Chloroethyl Vinyl ether
 Concen: 0.889 ug/l
 RT: 8.29 min Scan# 1181
 Delta R.T. -0.01 min
 Lab File: VX017367.D
 Acq: 14 Jul 2020 10:41

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT3-2020

Tot Ion: 63 Resp: 2107
 Ion Ratio Lower Upper
 63 100
 106 29.2 24.8 37.2

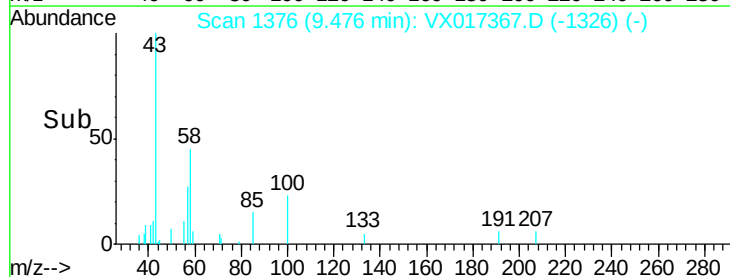
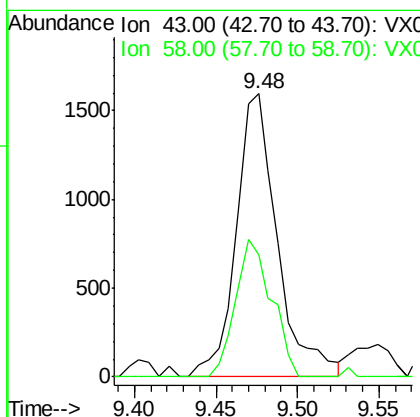
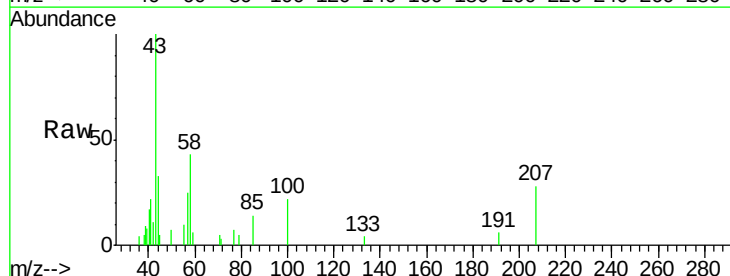
Manual Integrations
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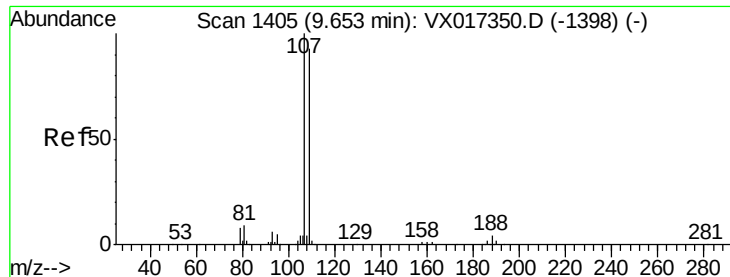
MMDadoda
 7/15/2020 11:43:08 AM



#59
 2-Hexanone
 Concen: 0.864 ug/l
 RT: 9.48 min Scan# 1376
 Delta R.T. 0.01 min
 Lab File: VX017367.D
 Acq: 14 Jul 2020 10:41

Tgt Ion: 43 Resp: 2809
 Ion Ratio Lower Upper
 43 100
 58 42.3 28.1 84.3





#61

1,2-Dibromoethane

Concen: 0.201 ug/l

RT: 9.65 min Scan# 1405

Delta R.T. 0.00 min

Lab File: VX017367.D

Acq: 14 Jul 2020 10:41

Instrument :

MSVOA_X

ClientSampleId :

MDL-WATER-03-QT3-2020

Tot Ion:107 Resp: 720

Ion Ratio Lower Upper

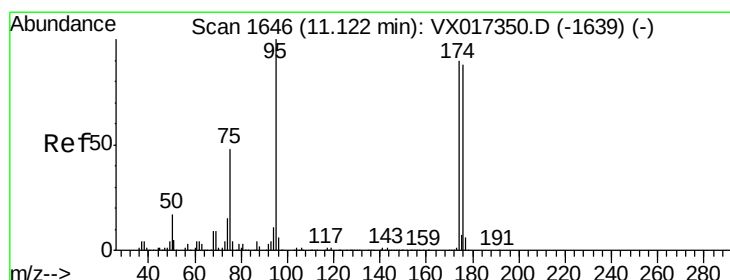
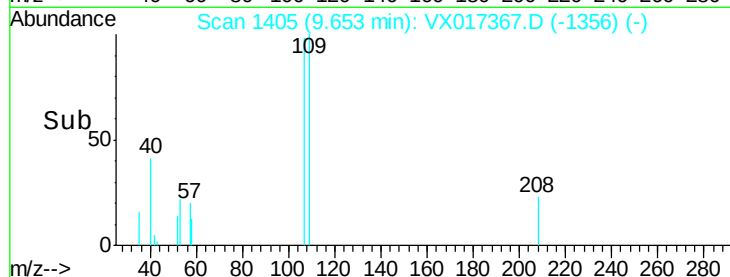
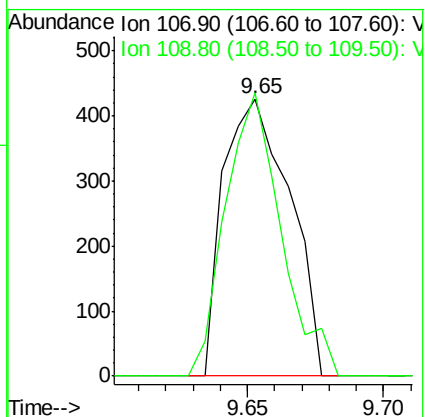
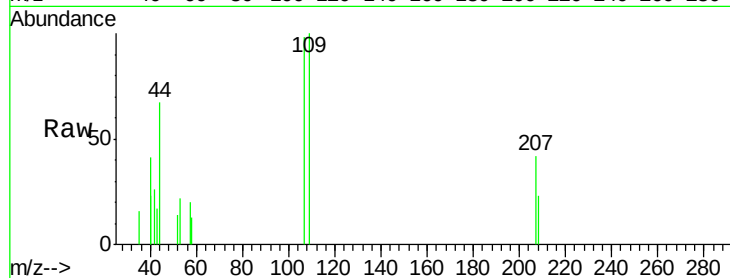
107 100

109 85.7 75.0 112.4

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#62

4-Bromofluorobenzene

Concen: 42.898 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX017367.D

Acq: 14 Jul 2020 10:41

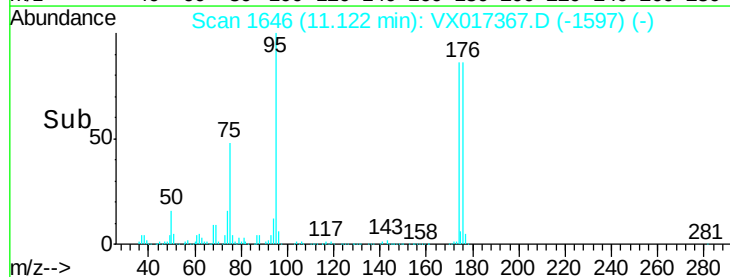
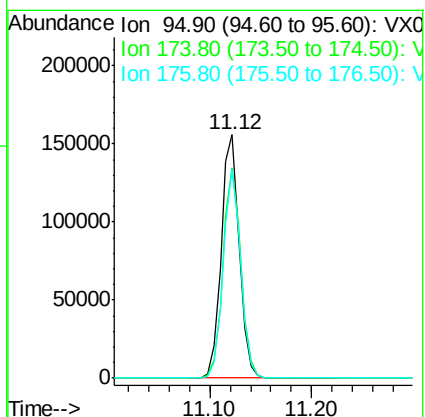
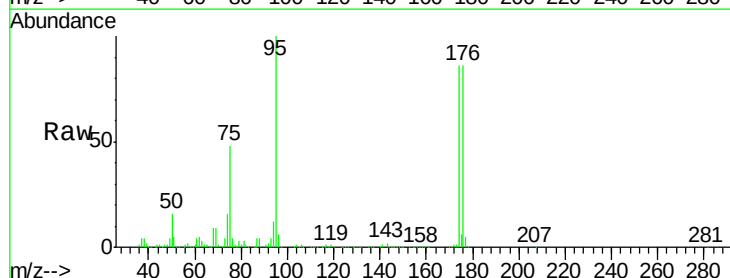
Tgt Ion: 95 Resp: 192408

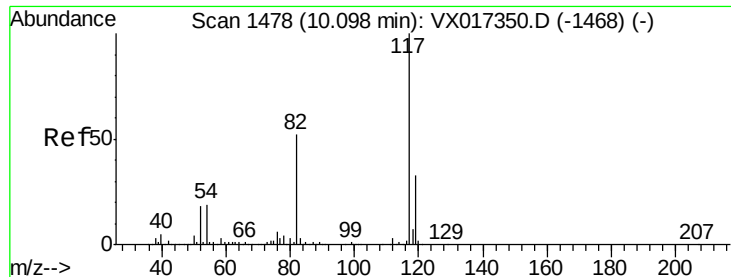
Ion Ratio Lower Upper

95 100

174 85.6 0.0 175.8

176 82.6 0.0 164.6





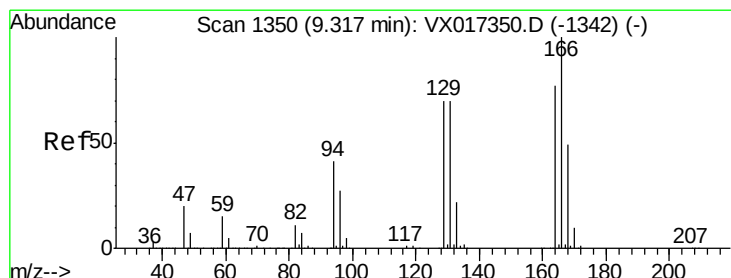
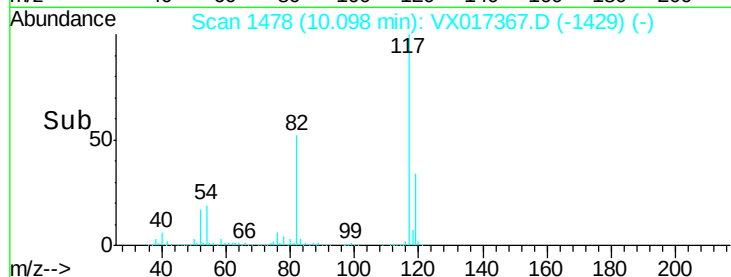
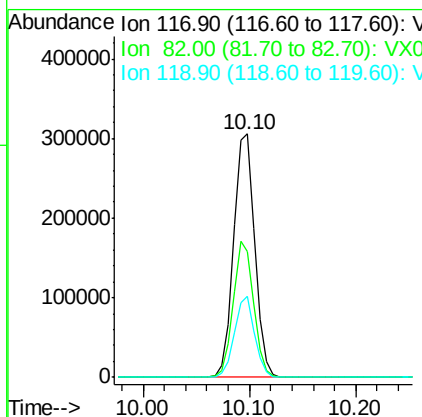
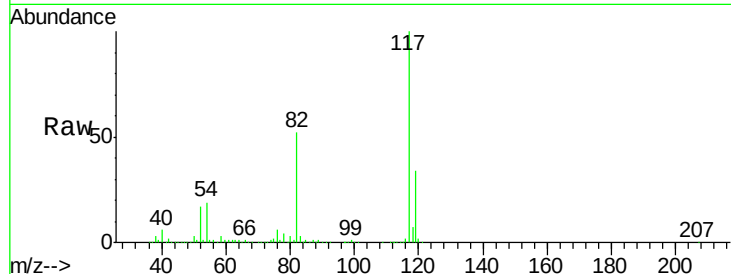
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT3-2020

Tot Ion	Ratio	Resp	Lower	Upper
117	100	426436		
82	51.9	42.0	63.0	
119	33.5	26.3	39.5	

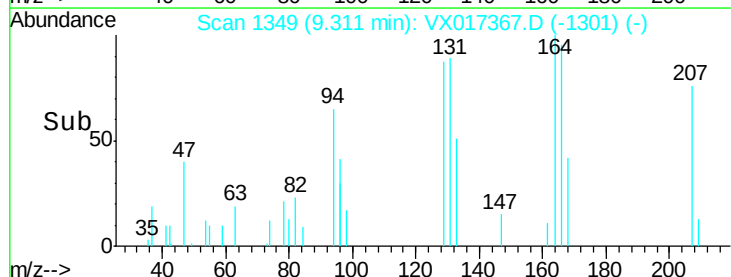
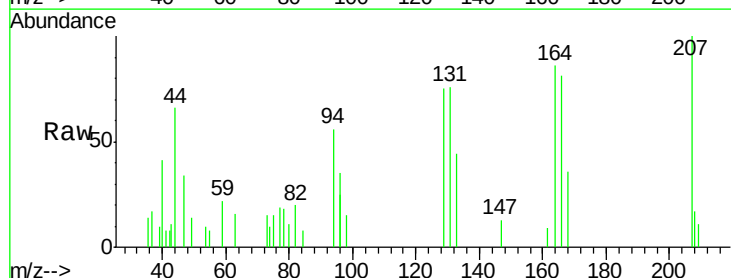
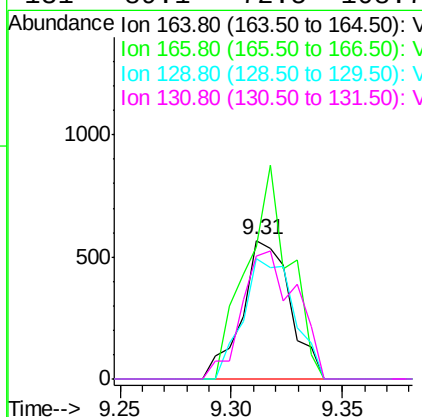
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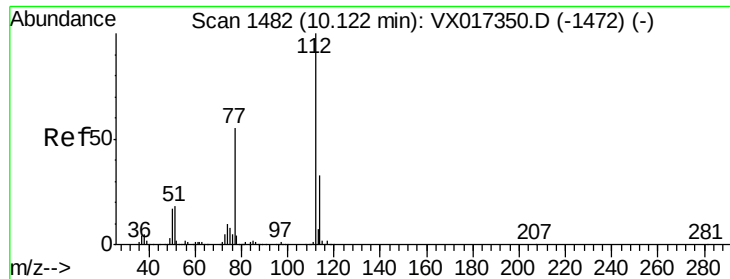
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#64
Tetrachloroethene
Concen: 0.232 ug/l
RT: 9.31 min Scan# 1349
Delta R.T. -0.01 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	856		
166	95.1	103.9	155.9#	
129	87.1	72.9	109.3	
131	89.1	72.5	108.7	





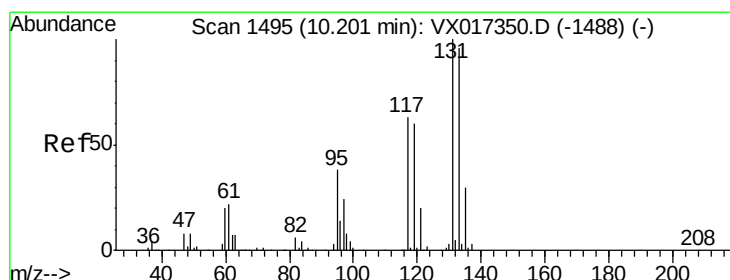
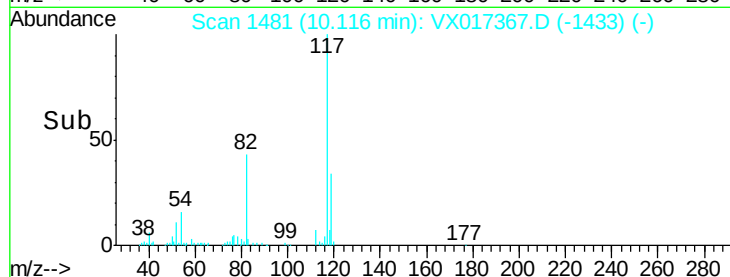
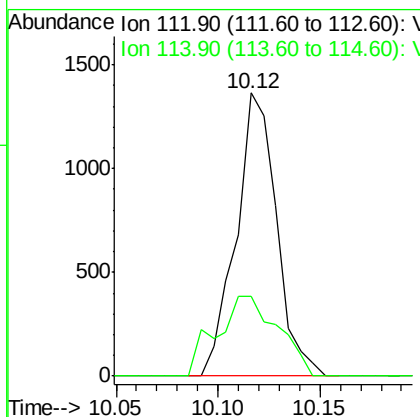
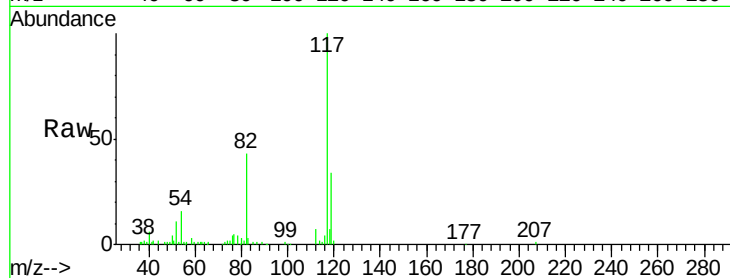
#65
Chlorobenzene
Concen: 0.217 ug/l
RT: 10.12 min Scan# 1481
Delta R.T. -0.01 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT3-2020

Tot Ion	Ratio	Lower	Upper
112	100		
114	28.4	26.0	39.0

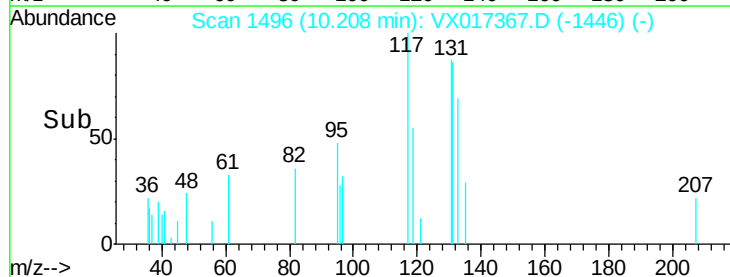
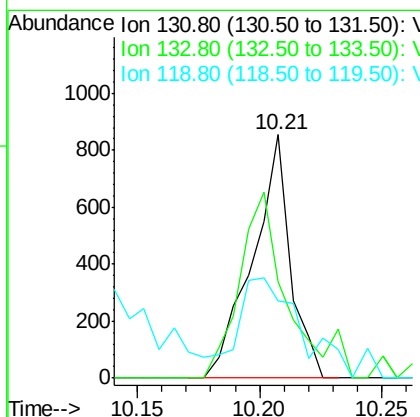
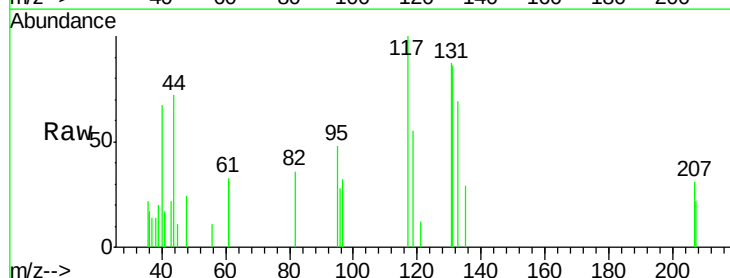
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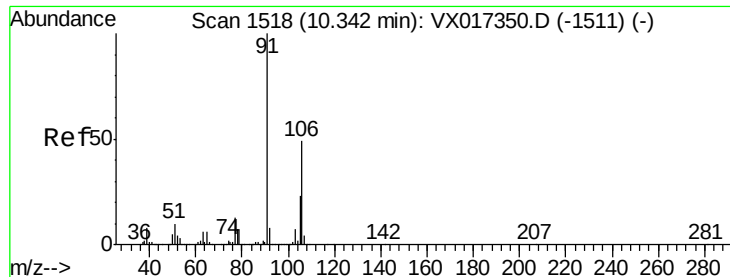
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 0.265 ug/l
RT: 10.21 min Scan# 1496
Delta R.T. 0.01 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.5	48.4	145.2
119	0.0	31.2	93.6#





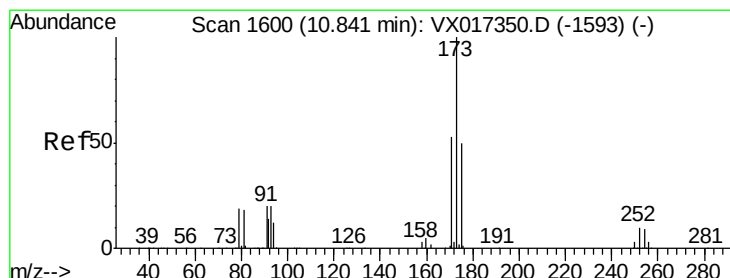
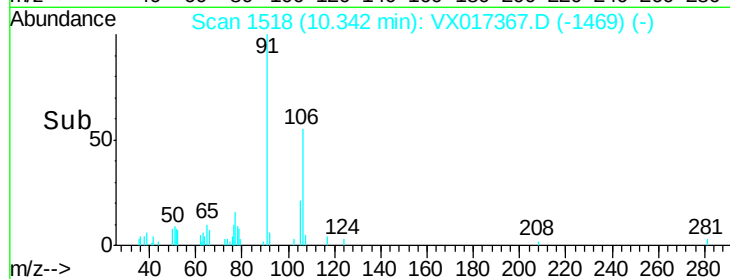
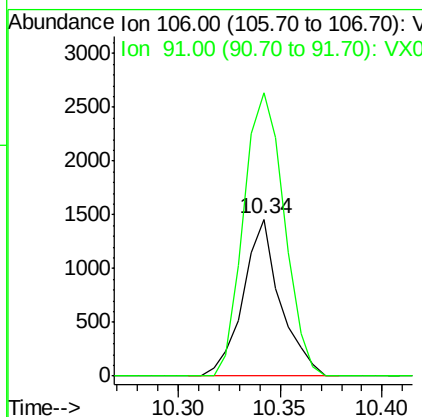
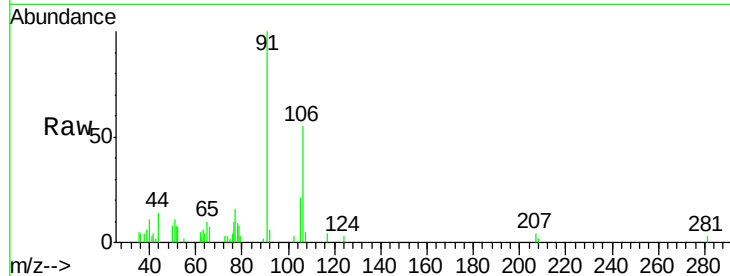
#68
m/p-Xvlenes
Concen: 0.338 ug/l
RT: 10.34 min Scan# 1518
Delta R.T. 0.00 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT3-2020

Tot Ion:106 Resp: 1857
Ion Ratio Lower Upper
106 100
91 196.1 162.5 243.7

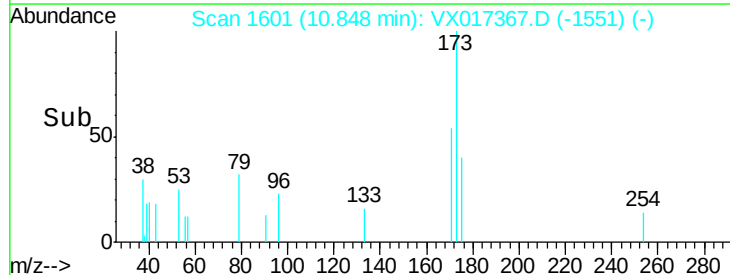
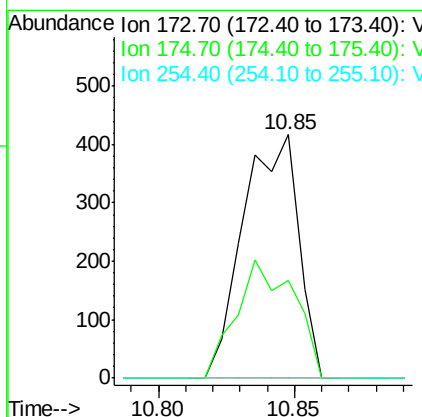
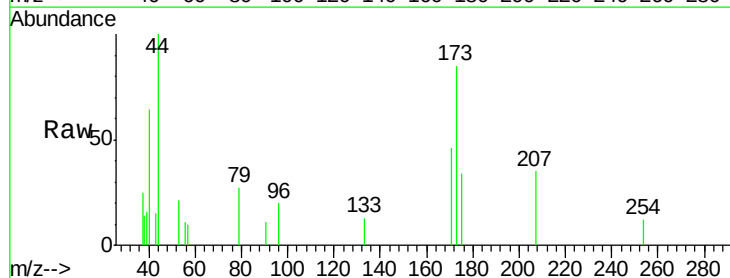
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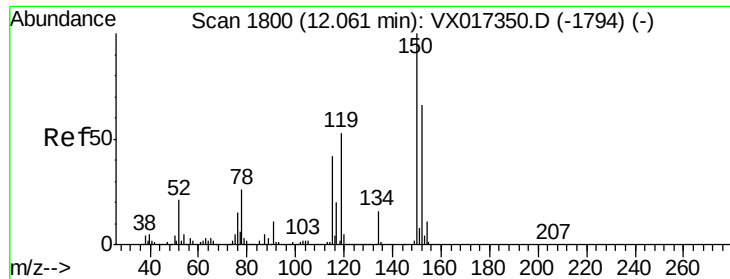
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#71
Bromoform
Concen: 0.201 ug/l
RT: 10.85 min Scan# 1601
Delta R.T. 0.01 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Tgt Ion:173 Resp: 585
Ion Ratio Lower Upper
173 100
175 50.6 24.7 74.1
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX017367.D

Acq: 14 Jul 2020 10:41

Instrument :

MSVOA_X

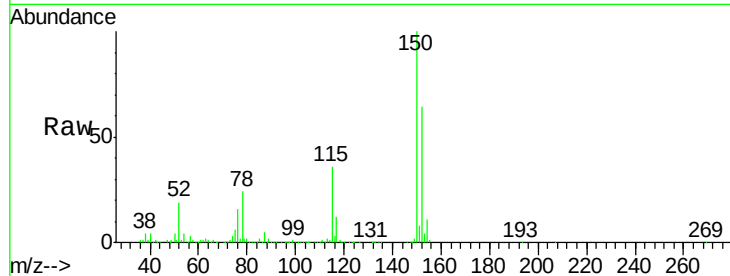
ClientSampleId :

MDL-WATER-03-QT3-2020

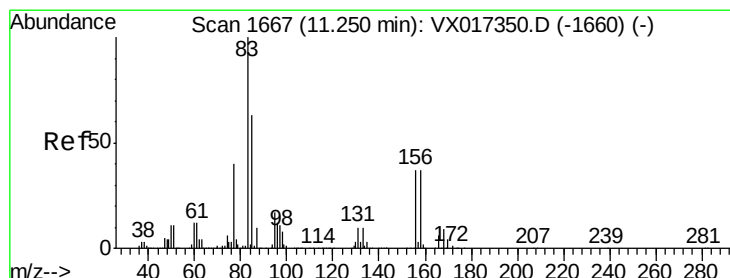
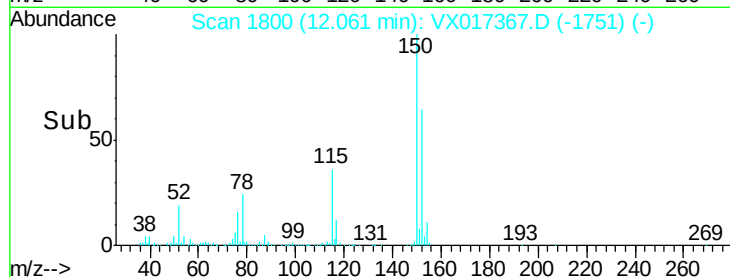
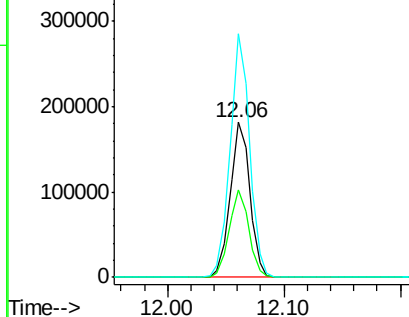
Tot Ion:	152	Resp:	213847
Ion Ratio	Lower	Upper	
152	100		
115	55.9	39.9	119.7
150	154.7	0.0	343.4

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Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



#75

1,1,2,2-Tetrachloroethane

Concen: 0.224 ug/l

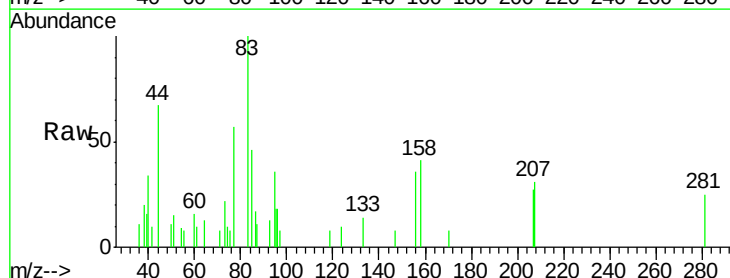
RT: 11.25 min Scan# 1667

Delta R.T. 0.00 min

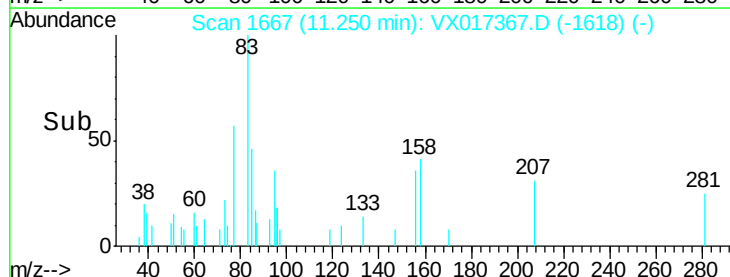
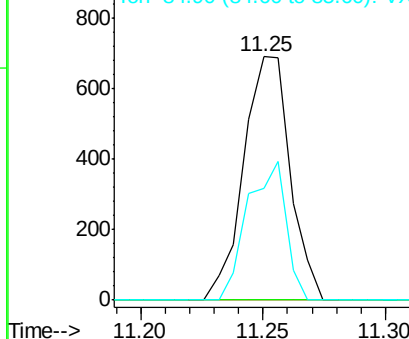
Lab File: VX017367.D

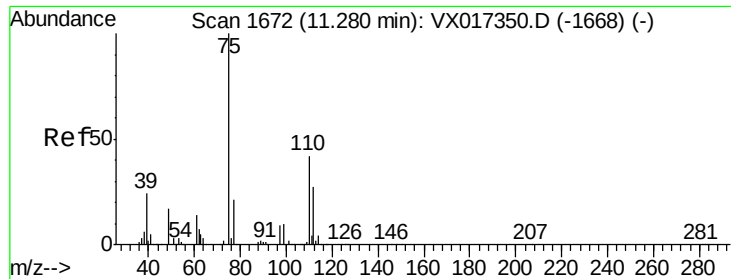
Acq: 14 Jul 2020 10:41

Tgt Ion:	83	Resp:	913
Ion Ratio	Lower	Upper	
83	100		
131	0.0	5.5	16.7#
85	47.1	32.6	98.0



Abundance Ion 82.90 (82.60 to 83.60): VX0
Ion 130.80 (130.50 to 131.50): V
Ion 84.90 (84.60 to 85.60): VX0





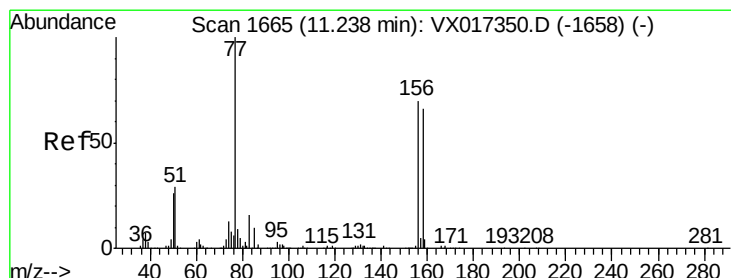
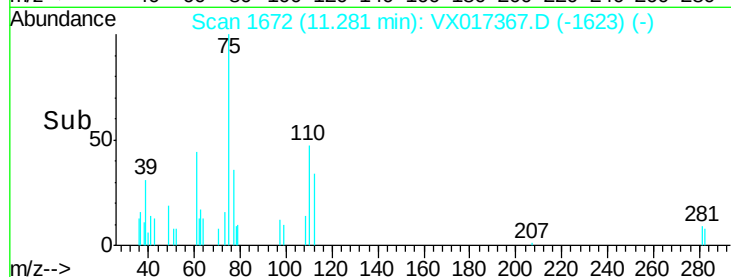
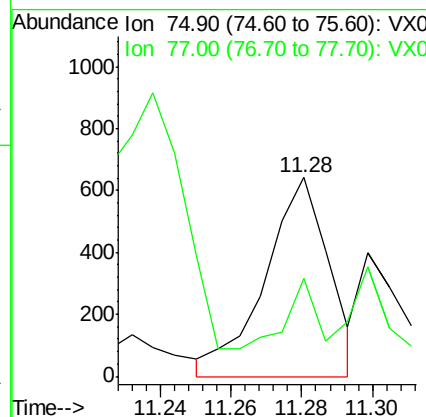
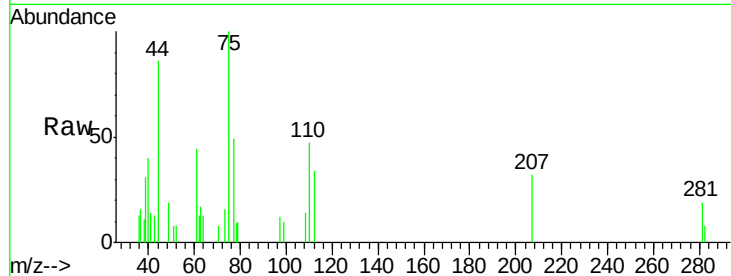
#76
 1,2,3-Trichloropropane
 Concen: 0.203 ug/l m
 RT: 11.28 min Scan# 1672
 Delta R.T. 0.00 min
 Lab File: VX017367.D
 Acq: 14 Jul 2020 10:41

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT3-2020

Tot Ion: 75 Resp: 801
 Ion Ratio Lower Upper
 75 100
 77 154.7 20.3 60.9#

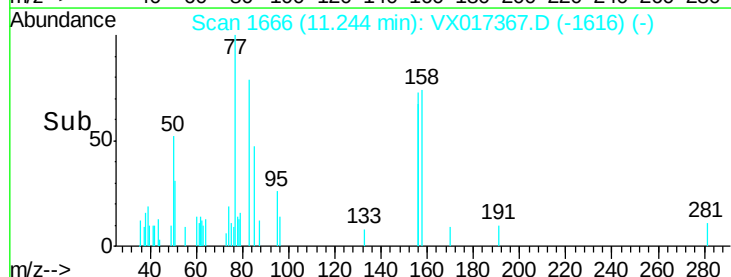
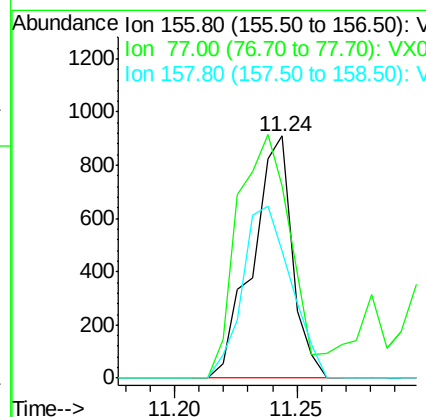
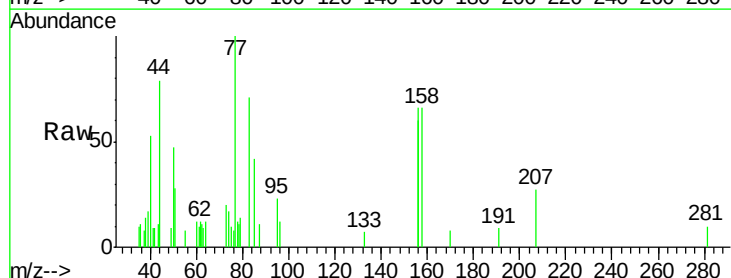
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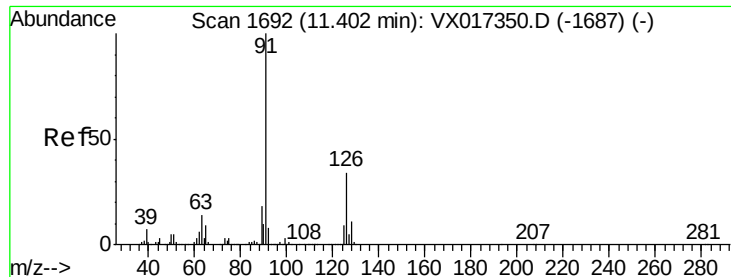
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#77
 Bromobenzene
 Concen: 0.271 ug/l
 RT: 11.24 min Scan# 1666
 Delta R.T. 0.01 min
 Lab File: VX017367.D
 Acq: 14 Jul 2020 10:41

Tgt Ion: 156 Resp: 1036
 Ion Ratio Lower Upper
 156 100
 77 134.9 72.1 216.3
 158 86.7 47.4 142.3





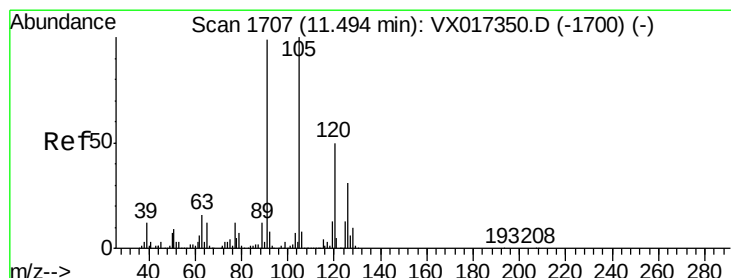
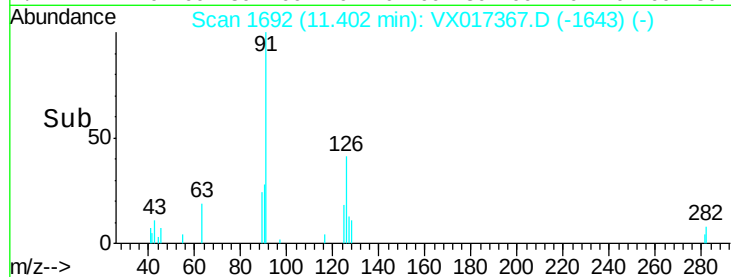
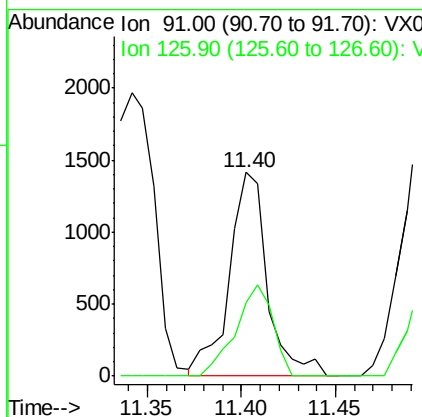
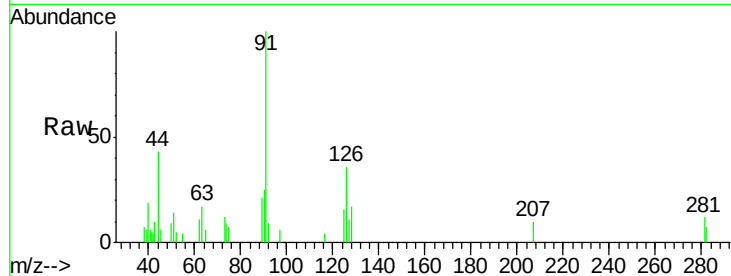
#79
2-Chlorotoluene
Concen: 0.216 ug/l
RT: 11.40 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT3-2020

Tot Ion: 91 Resp: 2002
Ion Ratio Lower Upper
91 100
126 43.1 17.4 52.3

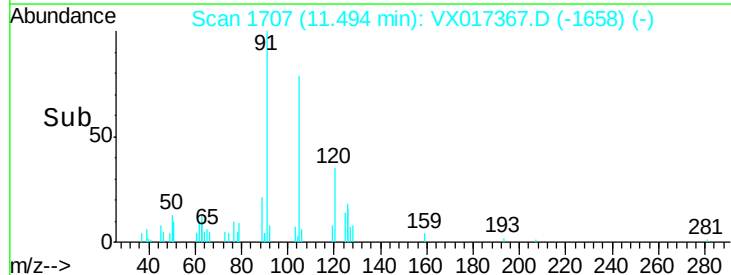
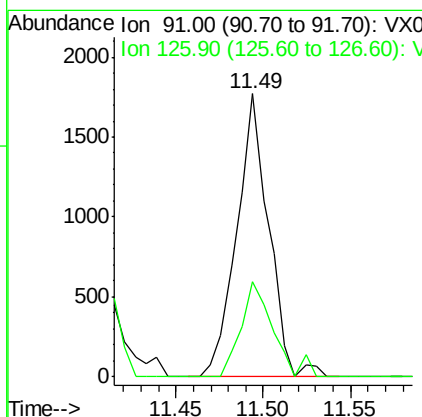
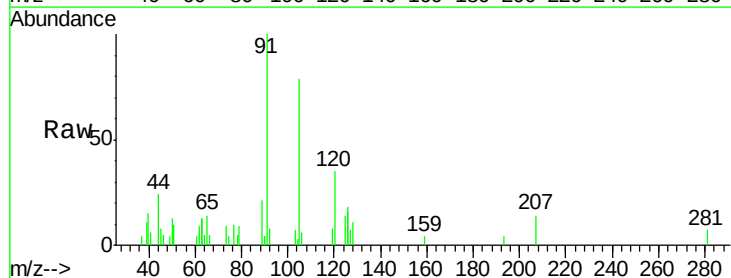
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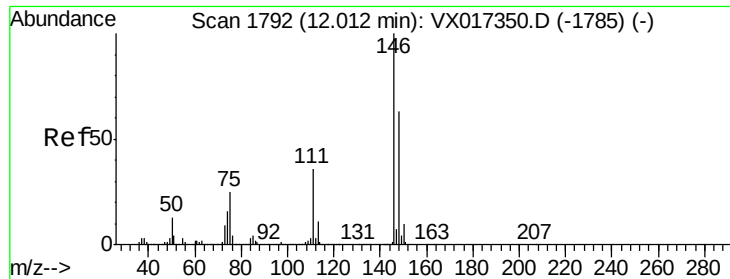
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7/15/2020 11:43:08 AM



#82
4-Chlorotoluene
Concen: 0.205 ug/l
RT: 11.49 min Scan# 1707
Delta R.T. 0.00 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Tgt Ion: 91 Resp: 2254
Ion Ratio Lower Upper
91 100
126 33.9 15.4 46.2





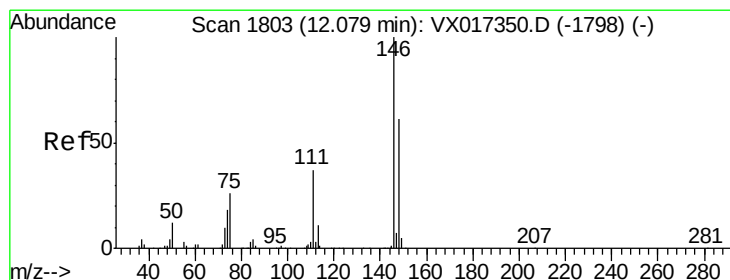
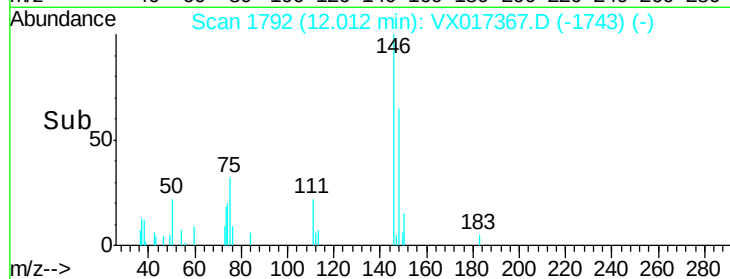
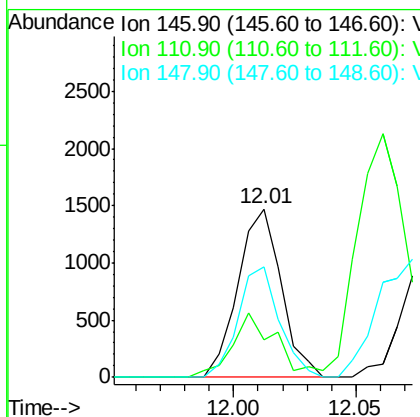
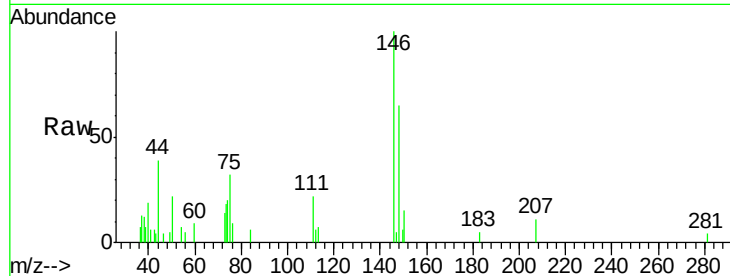
#87
 1,3-Dichlorobenzene
 Concen: 0.265 ug/l
 RT: 12.01 min Scan# 1792
 Delta R.T. 0.00 min
 Lab File: VX017367.D
 Acq: 14 Jul 2020 10:41

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT3-2020

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.2	57.6
148	62.5	31.6	95.0

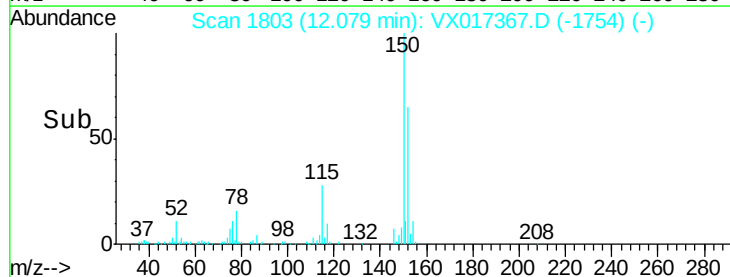
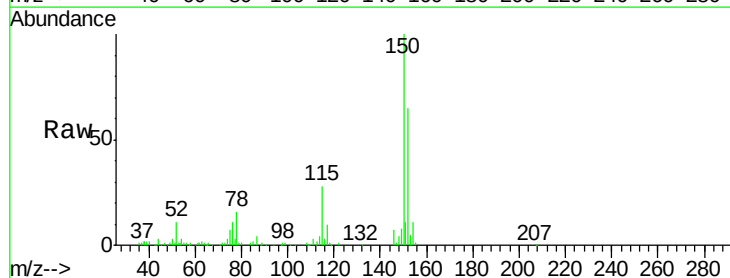
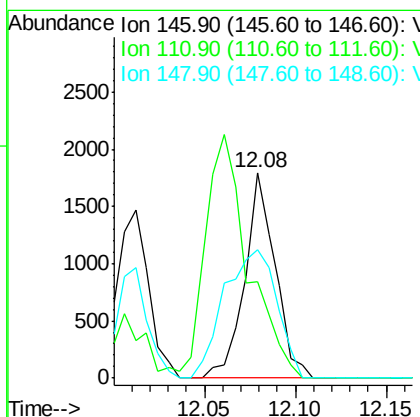
Manual Integrations
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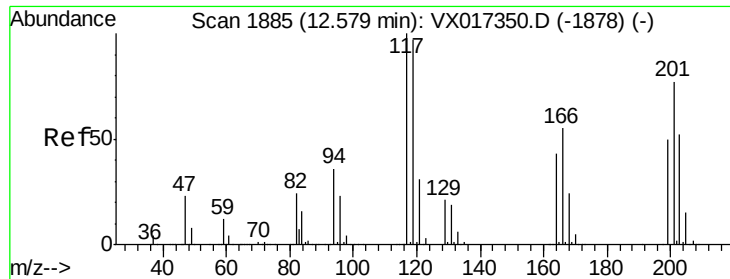
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 7/15/2020 11:43:08 AM



#88
 1,4-Dichlorobenzene
 Concen: 0.301 ug/l m
 RT: 12.08 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VX017367.D
 Acq: 14 Jul 2020 10:41

Tgt Ion	Ratio	Lower	Upper
146	100		
111	34.2	18.9	56.9
148	54.5	31.9	95.9





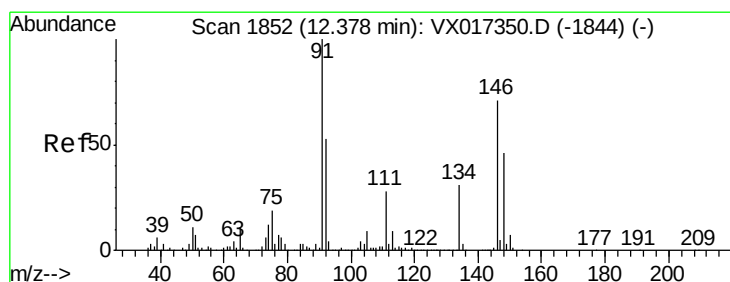
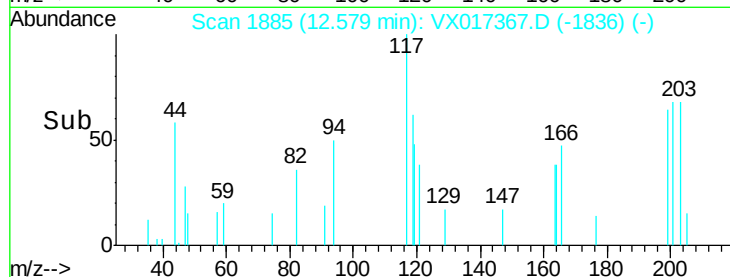
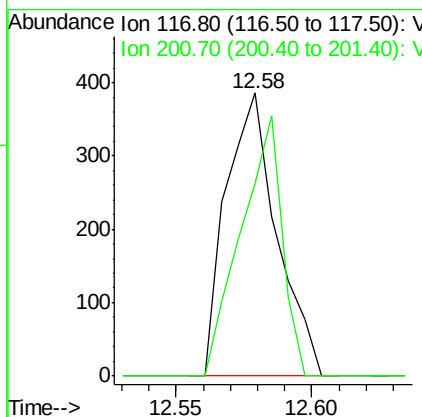
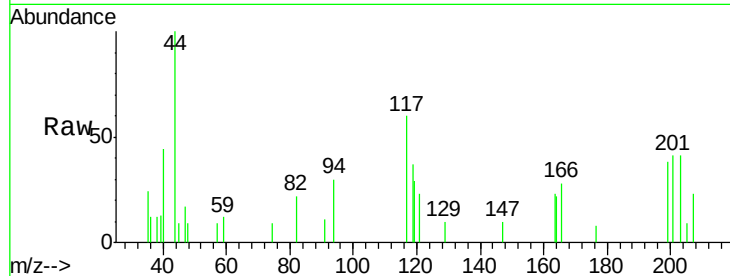
#90
Hexachloroethane
Concen: 0.215 ug/l
RT: 12.58 min Scan# 1885
Delta R.T. 0.00 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Instrument :
MSVOA_X
ClientSampleId :
MDL-WATER-03-QT3-2020

Tot Ion:117 Resp: 498
Ion Ratio Lower Upper
117 100
201 74.5 41.0 123.0

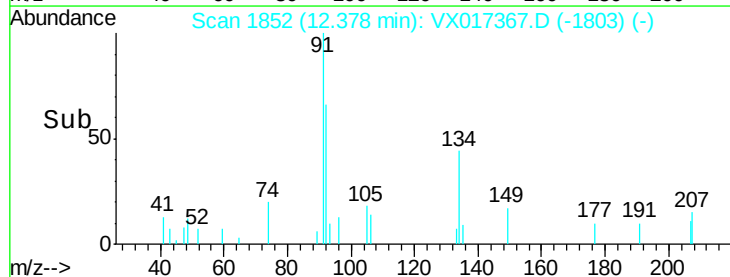
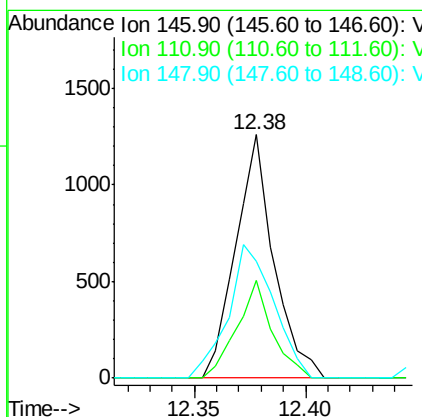
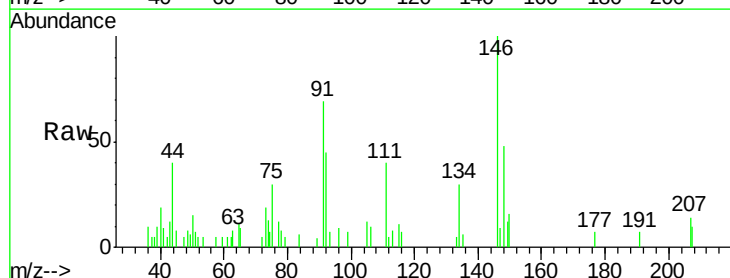
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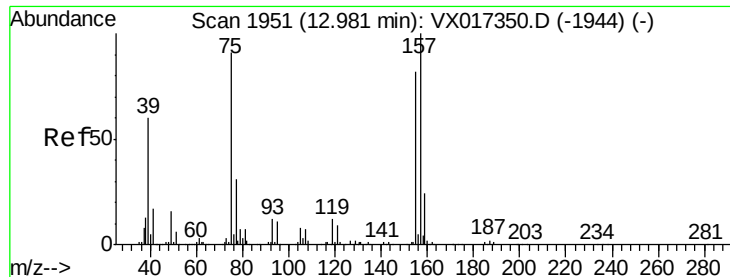
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#91
1,2-Dichlorobenzene
Concen: 0.234 ug/l
RT: 12.38 min Scan# 1852
Delta R.T. 0.00 min
Lab File: VX017367.D
Acq: 14 Jul 2020 10:41

Tgt Ion:146 Resp: 1502
Ion Ratio Lower Upper
146 100
111 37.3 20.3 61.0
148 65.2 32.0 96.0





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.255 ug/l

RT: 12.99 min Scan# 1953

Delta R.T. 0.01 min

Lab File: VX017367.D

Acq: 14 Jul 2020 10:41

Instrument :

MSVOA_X

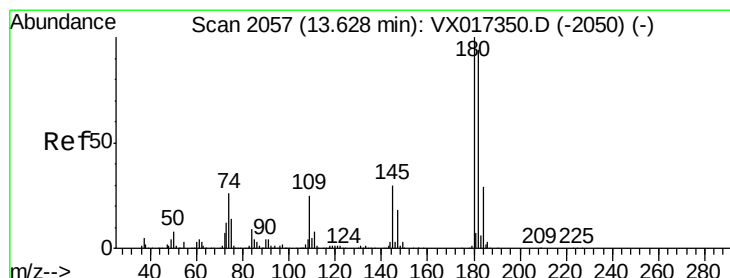
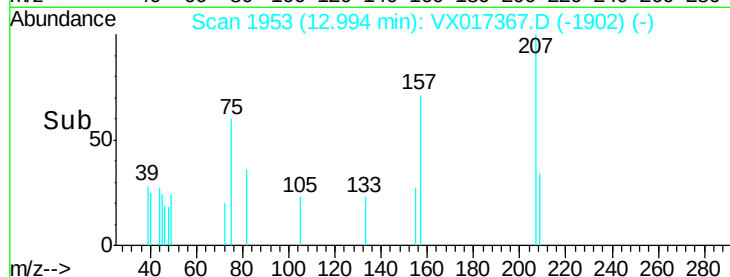
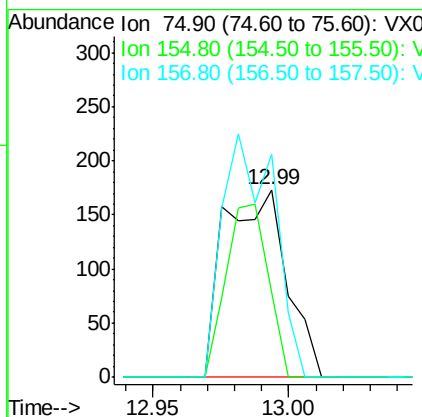
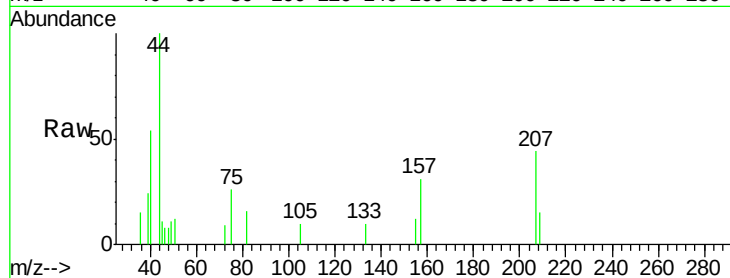
ClientSampleId :

MDL-WATER-03-QT3-2020

Tot Ion:	75	Resp:	274
Ion	Ratio	Lower	Upper
75	100		
155	62.4	46.5	139.3
157	107.7	58.0	173.9

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#93

1,2,4-Trichlorobenzene

Concen: 0.265 ug/l

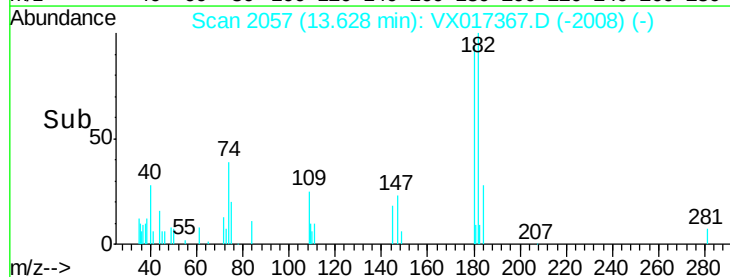
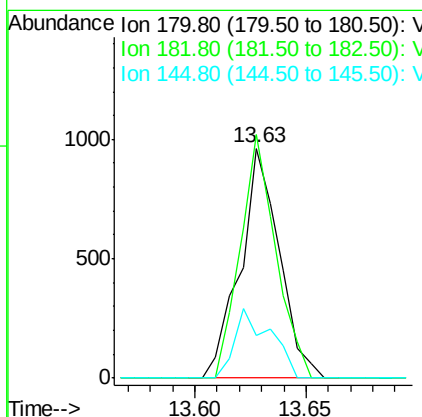
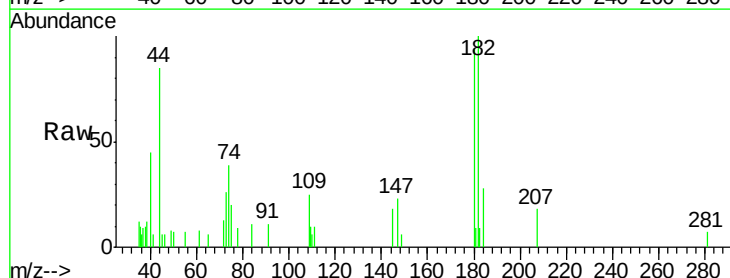
RT: 13.63 min Scan# 2057

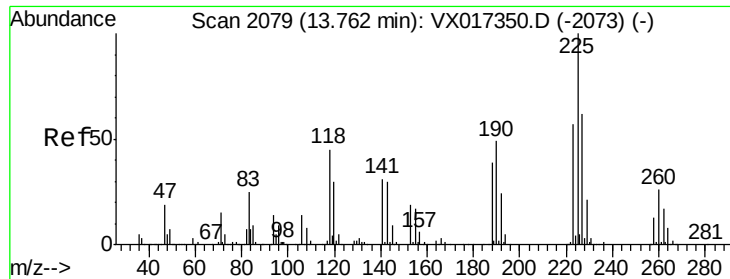
Delta R.T. 0.00 min

Lab File: VX017367.D

Acq: 14 Jul 2020 10:41

Tgt Ion:	180	Resp:	1179
Ion	Ratio	Lower	Upper
180	100		
182	95.9	48.4	145.0
145	27.6	15.3	45.8





#94

Hexachlorobutadiene

Concen: 0.314 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.01 min

Lab File: VX017367.D

Acq: 14 Jul 2020 10:41

Instrument :

MSVOA_X

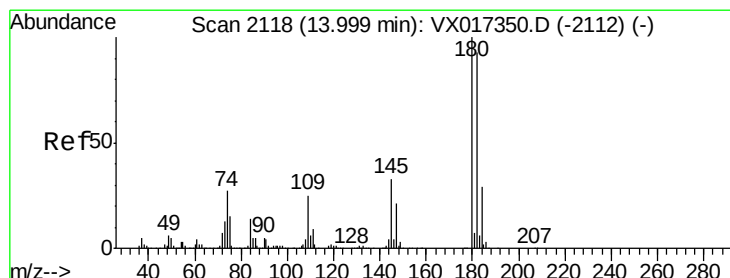
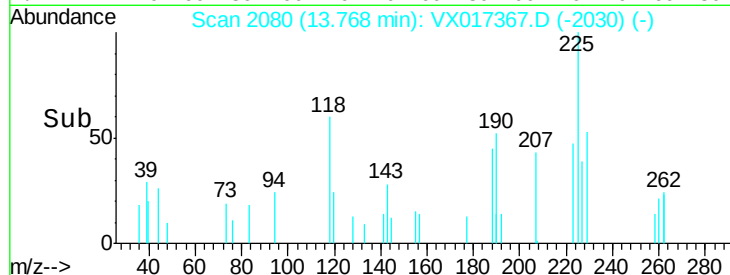
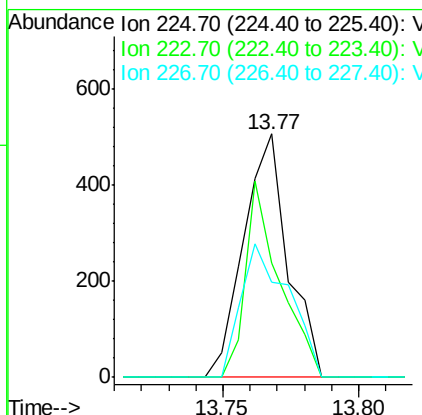
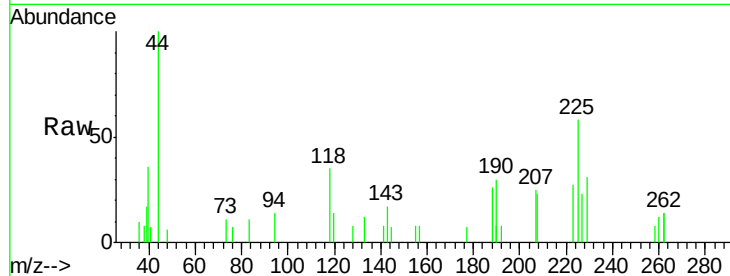
ClientSampleId :

MDL-WATER-03-QT3-2020

Tot Ion:	225	Resp:	571
Ion Ratio	Lower	Upper	
225	100		
223	62.3	31.3	93.8
227	59.0	31.6	95.0

Manual Integrations
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#96

1,2,3-Trichlorobenzene

Concen: 0.244 ug/l

RT: 14.01 min Scan# 2119

Delta R.T. 0.01 min

Lab File: VX017367.D

Acq: 14 Jul 2020 10:41

Tgt Ion:	180	Resp:	1049
Ion Ratio	Lower	Upper	
180	100		
182	100.7	48.8	146.3
145	40.0	16.6	49.7

