

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX030719\
 Data File : VX007878.D
 Acq On : 07 Mar 2019 12:36
 Operator : JC/SP
 Sample : K1560-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT1-2019

Manual Integrations
 APPROVED

MMDadoda
 3/8/2019 9:40:34 AM

Quant Time: Mar 08 06:18:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 06:11:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	286886	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	419072	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	364759	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	172657	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	155650	51.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.86%	
35) Dibromofluoromethane	5.50	113	134701	50.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.50%	
50) Toluene-d8	8.71	98	497602	50.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.08%	
62) 4-Bromofluorobenzene	11.13	95	169900	49.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.44%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.20	85	1404	0.573	ug/l	89
3) Chloromethane	1.33	50	2234	0.707	ug/l	98
4) Vinyl Chloride	1.41	62	1700	0.542	ug/l #	86
5) Bromomethane	1.64	94	1583	0.829	ug/l	85
6) Chloroethane	1.72	64	1363	0.654	ug/l #	85
7) Trichlorofluoromethane	1.93	101	2499	0.612	ug/l	93
8) Diethyl Ether	2.19	74	1123	0.635	ug/l	76
9) 1,1,2-Trichlorotrifluoroet	2.39	101	1553	0.613	ug/l	94
10) Methyl Iodide	2.51	142	8574	2.387	ug/l	98
11) Tert butyl alcohol	3.06	59	10553	15.593	ug/l	99
12) 1,1-Dichloroethene	2.37	96	1494	0.612	ug/l	90
13) Acrolein	2.29	56	6818	19.233	ug/l	97
14) Allyl chloride	2.73	41	2884	0.562	ug/l #	84
15) Acrylonitrile	3.15	53	5333	3.122	ug/l	99
16) Acetone	2.45	43	5239	2.991	ug/l	93
17) Carbon Disulfide	2.57	76	5319	0.271	ug/l #	93
18) Methyl Acetate	2.78	43	2284	0.614	ug/l	96
19) Methyl tert-butyl Ether	3.20	73	5091	0.606	ug/l	91
20) Methylene Chloride	2.86	84	2119	0.760	ug/l	97
21) trans-1,2-Dichloroethene	3.17	96	1564	0.582	ug/l	81
22) Diisopropyl ether	3.86	45	5832	0.620	ug/l #	90
23) Vinyl Acetate	3.82	43	24207	2.936	ug/l	99
24) 1,1-Dichloroethane	3.70	63	3107	0.614	ug/l #	90
25) 2-Butanone	4.70	43	7114	2.869	ug/l	96
26) 2,2-Dichloropropane	4.57	77	1981	0.591	ug/l	97
27) cis-1,2-Dichloroethene	4.60	96	1863	0.606	ug/l	90
28) Bromochloromethane	5.03	49	1442	0.611	ug/l #	99
29) Tetrahydrofuran	5.15	42	4523	2.924	ug/l	96
30) Chloroform	5.21	83	2773	0.579	ug/l #	78
31) Cyclohexane	5.57	56	2544	0.547	ug/l	99
32) 1,1,1-Trichloroethane	5.49	97	2288	0.576	ug/l #	51
36) 1,1-Dichloropropene	5.79	75	2081	0.548	ug/l	93
37) Ethyl Acetate	4.86	43	2809	0.624	ug/l	96
38) Carbon Tetrachloride	5.77	117	2137	0.593	ug/l #	85

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	2610	0.568	ug/l	94
40) Benzene	6.13	78	6504	0.576	ug/l	94
41) Methacrylonitrile	5.06	41	1644	0.670	ug/l	95
42) 1,2-Dichloroethane	6.19	62	2012	0.545	ug/l	97
43) Isopropyl Acetate	6.46	43	3477	0.522	ug/l	98
44) Trichloroethene	7.21	130	1902	0.611	ug/l	99
45) 1,2-Dichloropropane	7.52	63	1562	0.524	ug/l	93
46) Dibromomethane	7.66	93	1077	0.570	ug/l	97
47) Bromodichloromethane	7.90	83	1859	0.519	ug/l	92
48) Methyl methacrylate	7.78	41	1954	0.558	ug/l	91
49) 1,4-Dioxane	7.75	88	731	10.156	ug/l #	80
51) 4-Methyl-2-Pentanone	8.65	43	11151	2.602	ug/l	96
52) Toluene	8.78	92	4032	0.585	ug/l	96
53) t-1,3-Dichloropropene	9.04	75	1635	0.438	ug/l	100
54) cis-1,3-Dichloropropene	8.43	75	1987	0.471	ug/l	99
55) 1,1,2-Trichloroethane	9.21	97	1629	0.583	ug/l	89
56) Ethyl methacrylate	9.18	69	2038	0.486	ug/l #	92
57) 1,3-Dichloropropane	9.37	76	2601	0.555	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.31	63	4483	2.067	ug/l	100
59) 2-Hexanone	9.49	43	8162	2.453	ug/l	95
60) Dibromochloromethane	9.58	129	1443	0.494	ug/l	99
61) 1,2-Dibromoethane	9.67	107	1540	0.520	ug/l	97
64) Tetrachloroethene	9.34	164	1874	0.620	ug/l #	91
65) Chlorobenzene	10.13	112	4423	0.579	ug/l	89
66) 1,1,1,2-Tetrachloroethane	10.22	131	1328	0.485	ug/l #	66
67) Ethyl Benzene	10.25	91	6836	0.544	ug/l	96
68) m/p-Xylenes	10.36	106	5027	1.038	ug/l	95
69) o-Xylene	10.70	106	2419	0.517	ug/l	95
70) Styrene	10.71	104	3913	0.511	ug/l	97
71) Bromoform	10.86	173	1031	0.439	ug/l #	99
73) Isopropylbenzene	11.02	105	6474	0.554	ug/l	99
74) N-amyl acetate	10.90	43	2684	0.503	ug/l #	94
75) 1,1,2,2-Tetrachloroethane	11.27	83	2381	0.591	ug/l	98
76) 1,2,3-Trichloropropane	11.29	75	1937m	0.535	ug/l	
77) Bromobenzene	11.26	156	1958	0.612	ug/l	94
78) n-propylbenzene	11.36	91	7437	0.574	ug/l	95
79) 2-Chlorotoluene	11.42	91	4775	0.603	ug/l	96
80) 1,3,5-Trimethylbenzene	11.51	105	5189	0.540	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.07	75	500m	0.441	ug/l	
82) 4-Chlorotoluene	11.51	91	5124	0.565	ug/l	100
83) tert-Butylbenzene	11.77	119	5630	0.582	ug/l	98
84) 1,2,4-Trimethylbenzene	11.80	105	5140	0.522	ug/l	99
85) sec-Butylbenzene	11.94	105	6118	0.537	ug/l	100
86) p-Isopropyltoluene	12.07	119	5476	0.536	ug/l	89
87) 1,3-Dichlorobenzene	12.02	146	3353	0.592	ug/l	97
88) 1,4-Dichlorobenzene	12.10	146	3640m	0.628	ug/l	
89) n-Butylbenzene	12.38	91	4350	0.503	ug/l	96
90) Hexachloroethane	12.60	117	802	0.470	ug/l	93
91) 1,2-Dichlorobenzene	12.39	146	3406	0.605	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.00	75	422	0.501	ug/l	92

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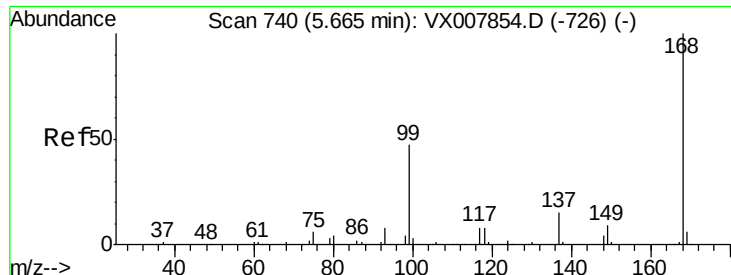
Manual Integrations
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MMDadoda
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	2330	0.589	ug/l	89
94) Hexachlorobutadiene	13.78	225	1265	0.612	ug/l	98
95) Naphthalene	13.83	128	5839	0.513	ug/l #	95
96) 1,2,3-Trichlorobenzene	14.02	180	2129	0.541	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:168 Resp: 286886

Ion Ratio Lower Upper

168 100

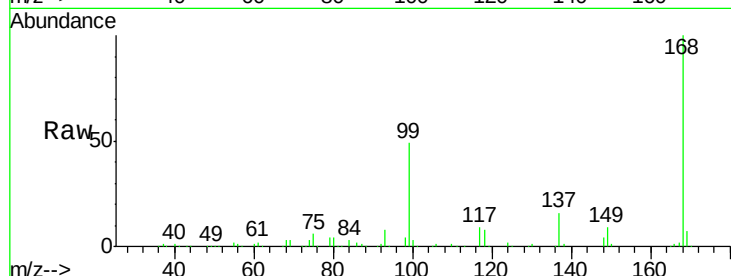
99 49.0 37.6 56.4

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

120000

100000

80000

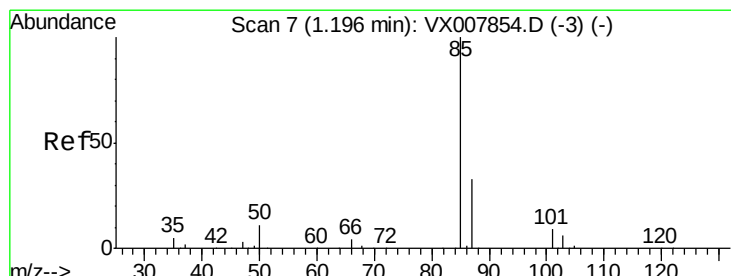
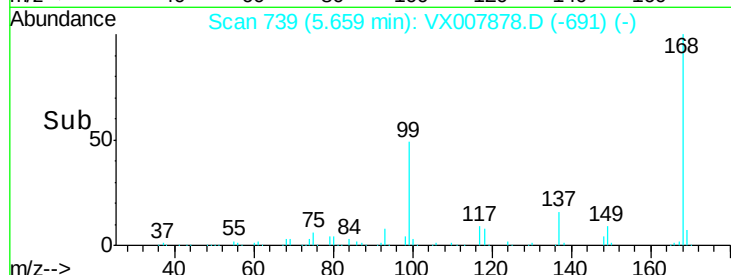
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.573 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX007878.D

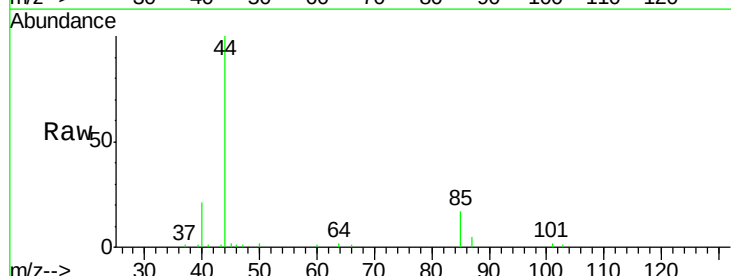
Acq: 07 Mar 2019 12:36

Tgt Ion: 85 Resp: 1404

Ion Ratio Lower Upper

85 100

87 26.5 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

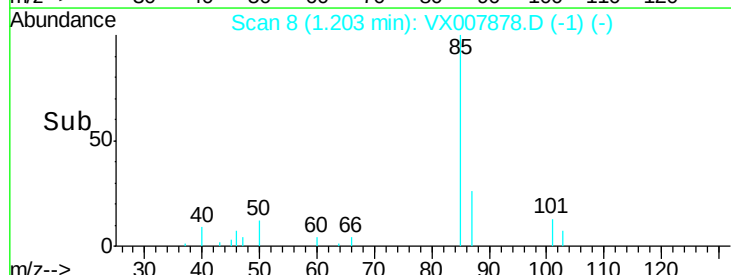
1500

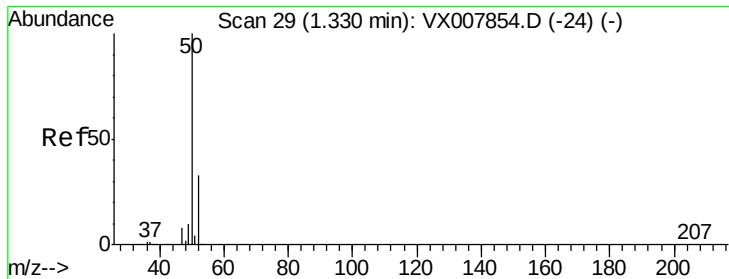
1000

500

0

Time--> 1.15 1.20 1.25





#3

Chloromethane

Concen: 0.707 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion: 50 Resp: 2234

Ion Ratio Lower Upper

50 100

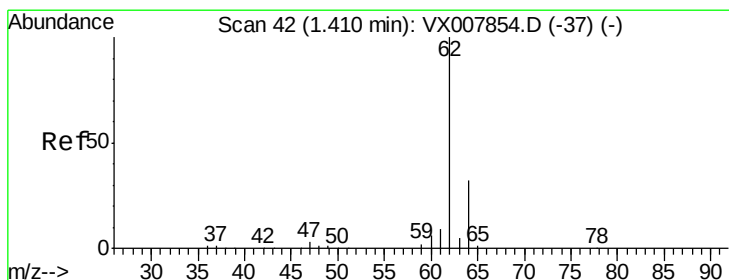
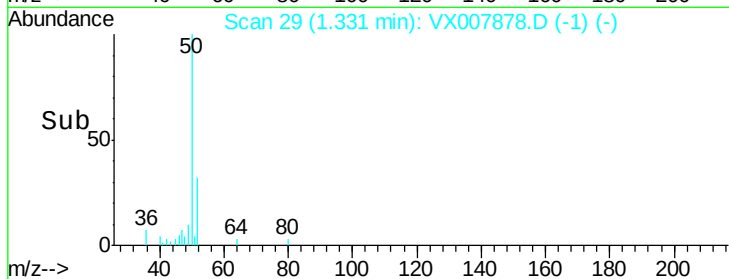
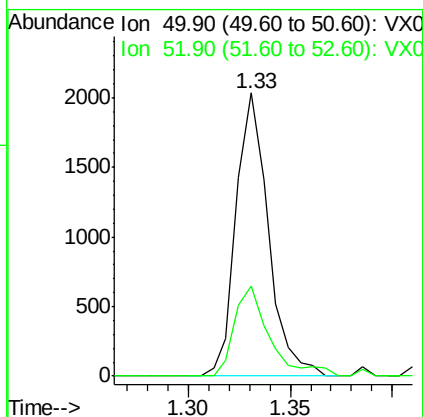
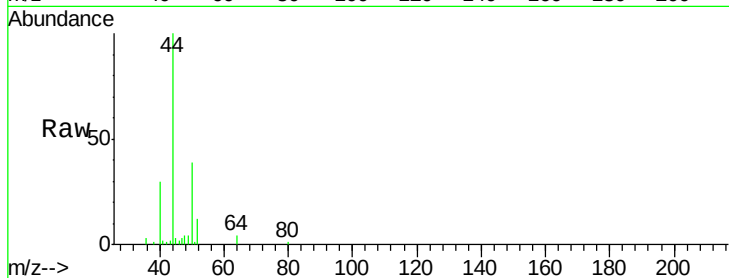
52 31.9 26.5 39.7

Manual Integrations

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#4

Vinyl Chloride

Concen: 0.542 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX007878.D

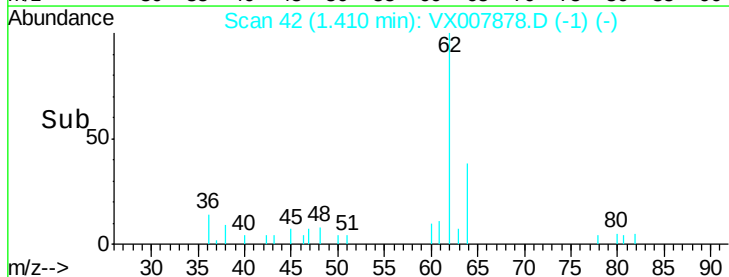
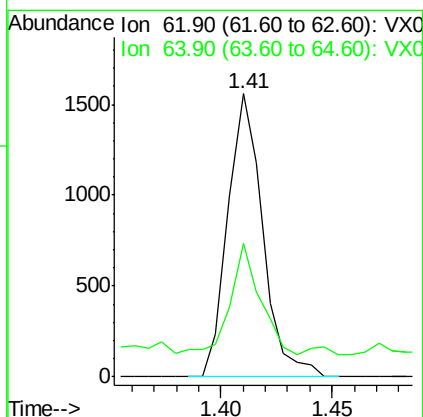
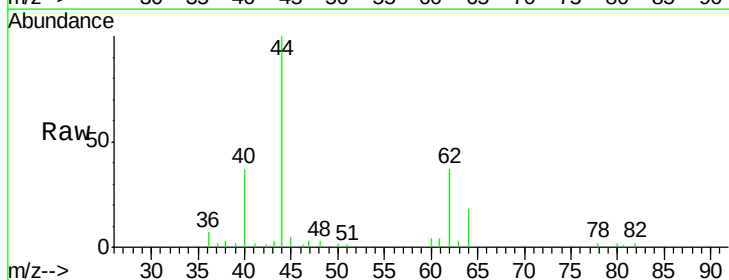
Acq: 07 Mar 2019 12:36

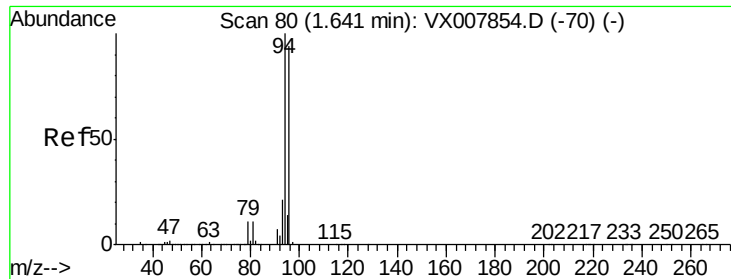
Tgt Ion: 62 Resp: 1700

Ion Ratio Lower Upper

62 100

64 39.6 25.3 37.9#





#5

Bromomethane

Concen: 0.829 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Instrument :

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Tot Ion: 94 Resp: 1583

Ion Ratio Lower Upper

94 100

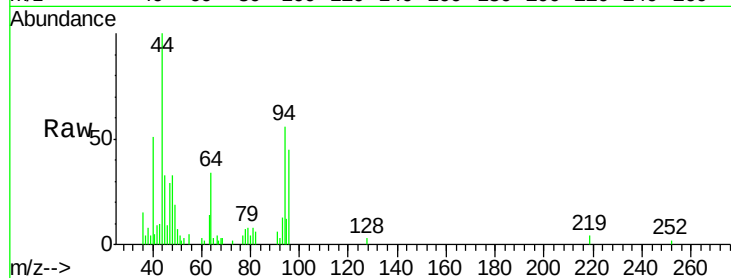
96 80.1 75.5 113.3

Manual Integrations

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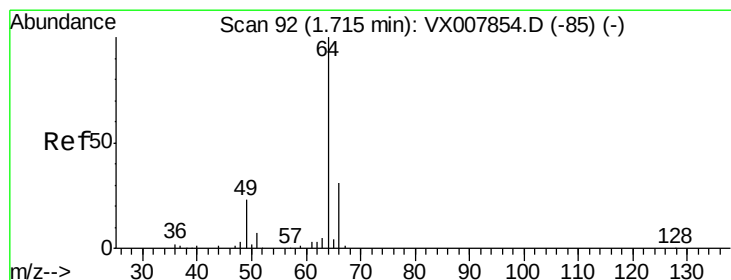
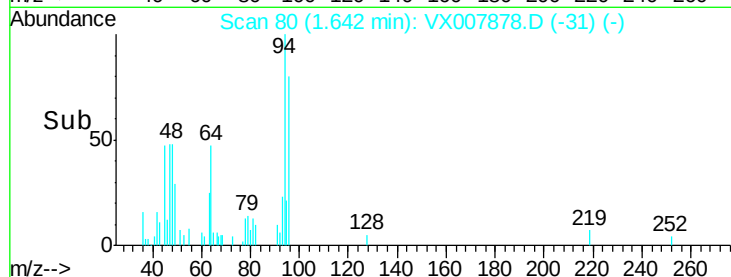
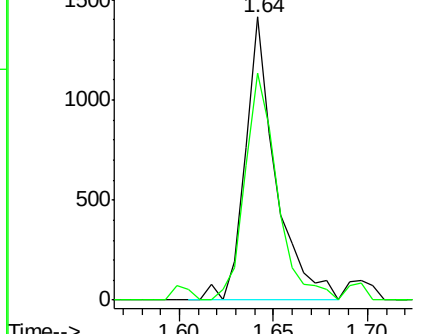
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Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.654 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX007878.D

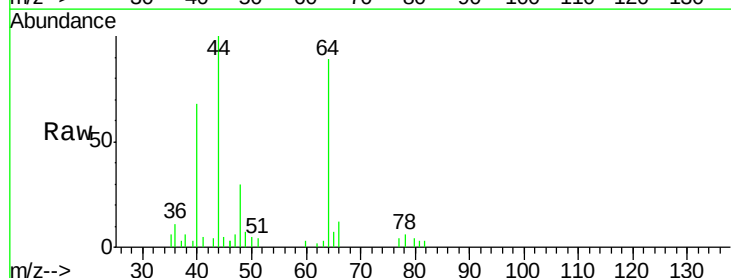
Acq: 07 Mar 2019 12:36

Tgt Ion: 64 Resp: 1363

Ion Ratio Lower Upper

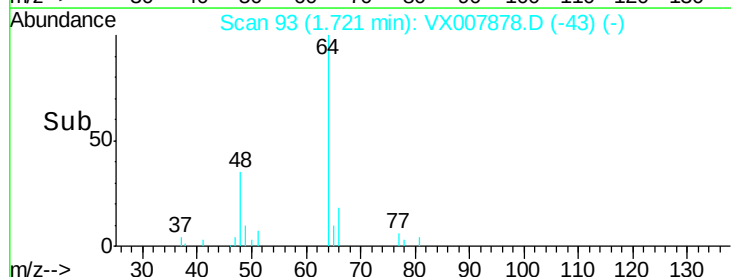
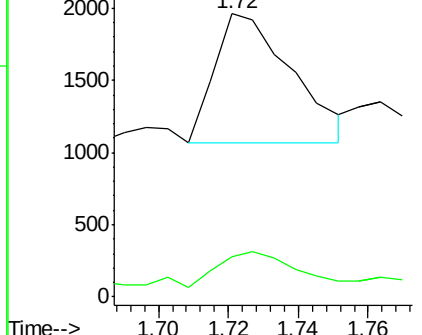
64 100

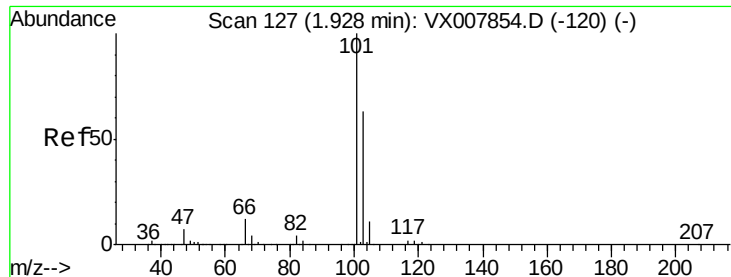
66 23.3 25.2 37.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#7

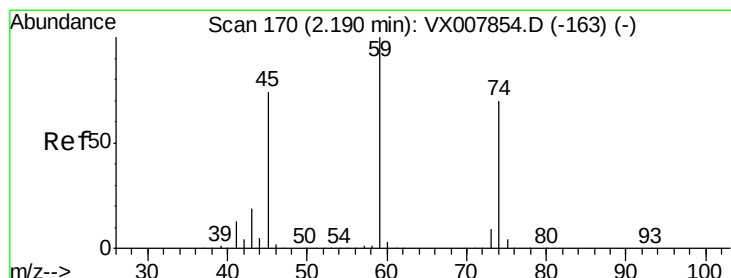
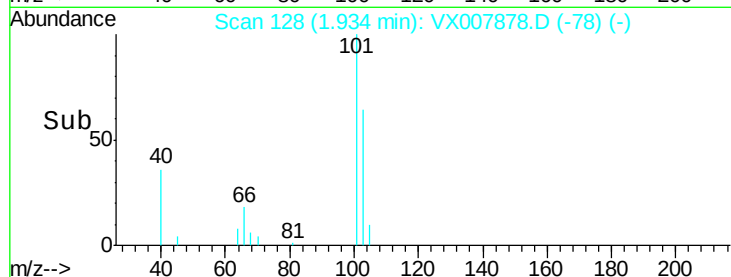
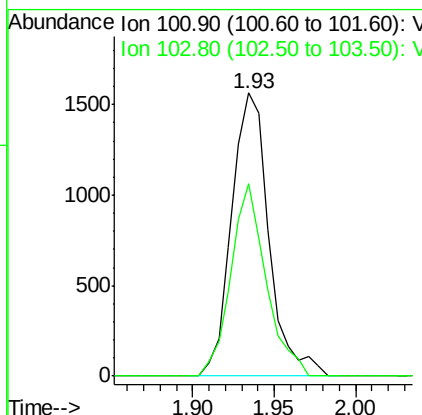
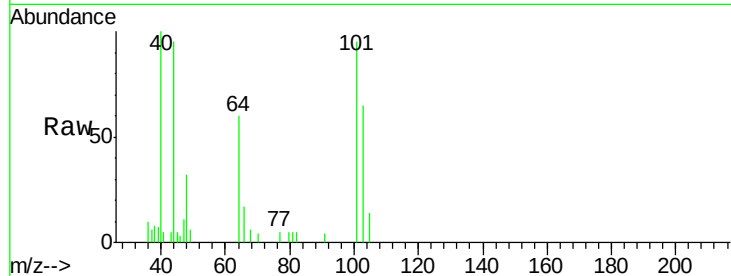
Trichlorofluoromethane
 Concen: 0.612 ug/l
 RT: 1.93 min Scan# 128
 Delta R.T. 0.01 min
 Lab File: VX007878.D
 Acq: 07 Mar 2019 12:36

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Tot Ion	Ratio	Lower	Upper
101	100		
103	68.1	50.4	75.6

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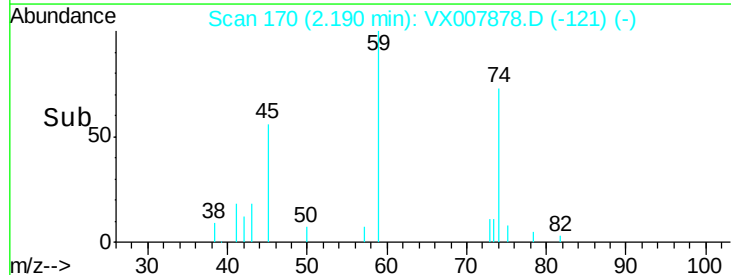
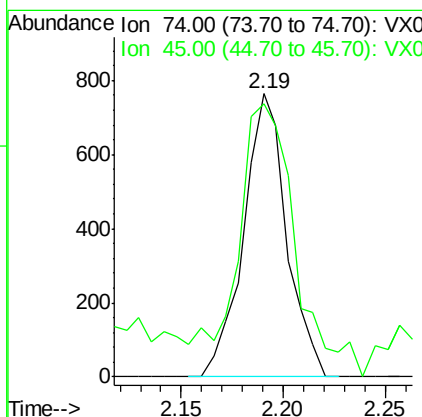
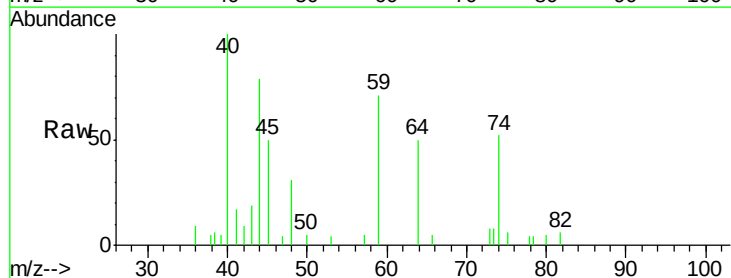
MMDadoda
 3/8/2019 9:40:34 AM

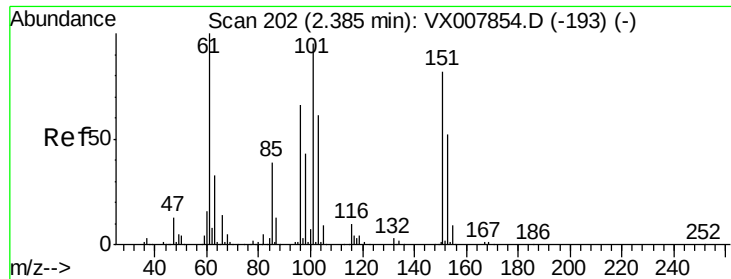


#8

Diethyl Ether
 Concen: 0.635 ug/l
 RT: 2.19 min Scan# 170
 Delta R.T. 0.00 min
 Lab File: VX007878.D
 Acq: 07 Mar 2019 12:36

Tgt Ion	Ratio	Lower	Upper
74	100		
45	129.0	52.1	156.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.613 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.00 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Instrument :

MSVOA_X

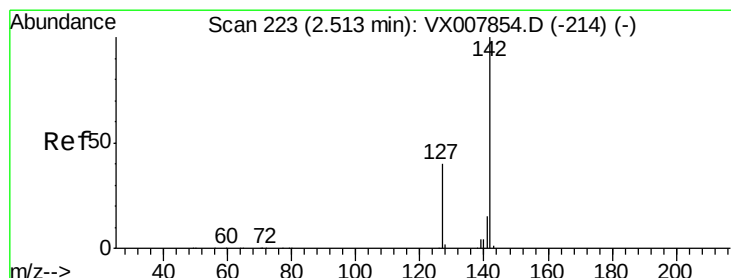
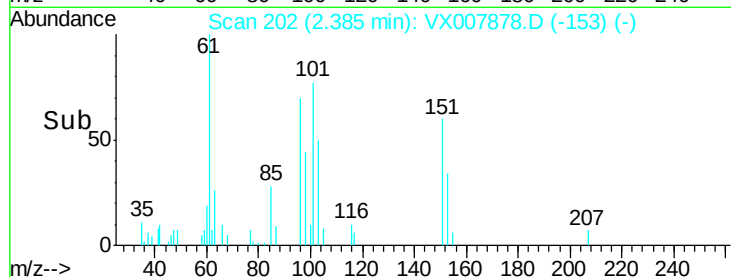
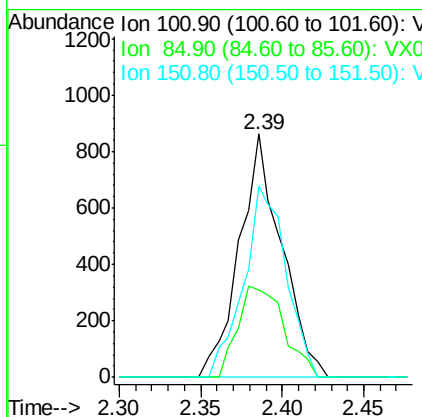
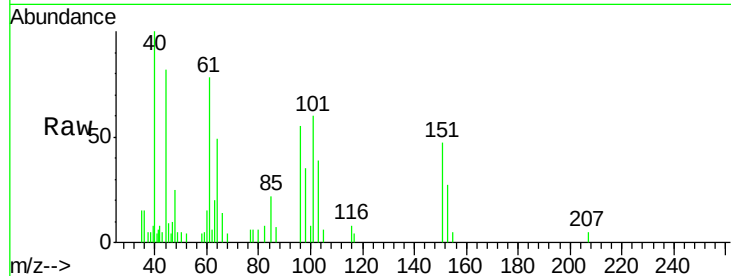
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:	101	Resp:	1553
Ion	Ratio	Lower	Upper
101	100		
85	40.8	33.8	50.6
151	79.3	69.1	103.7

Manual Integrations
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MMDadoda
3/8/2019 9:40:34 AM



#10

Methyl Iodide

Concen: 2.387 ug/l

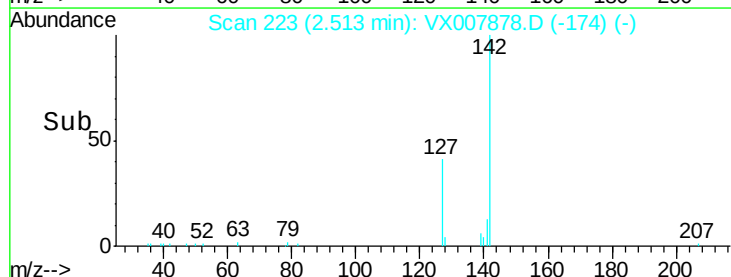
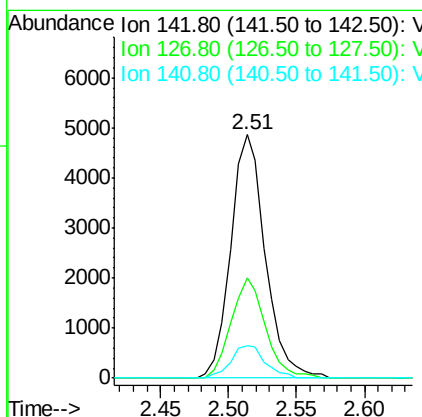
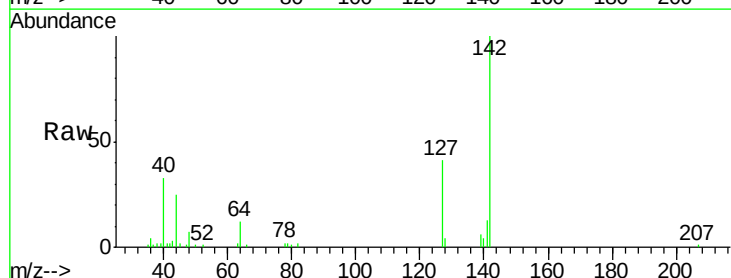
RT: 2.51 min Scan# 223

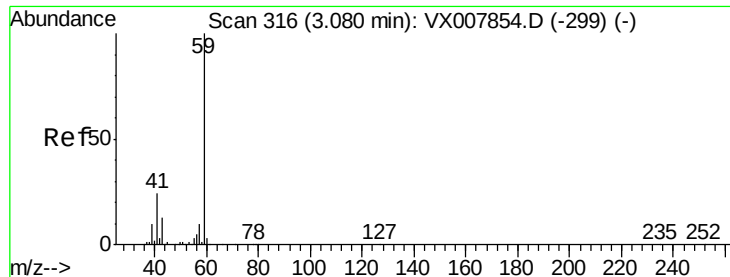
Delta R.T. 0.00 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Tgt Ion:	142	Resp:	8574
Ion	Ratio	Lower	Upper
142	100		
127	41.0	32.1	48.1
141	13.4	11.4	17.2





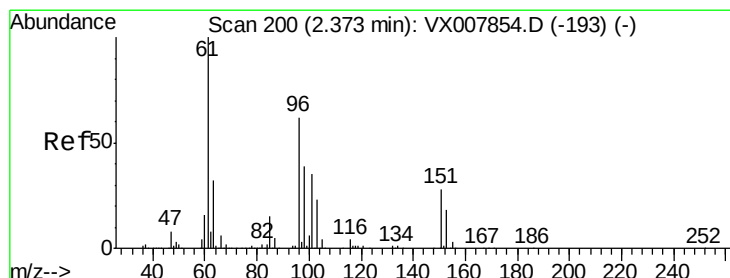
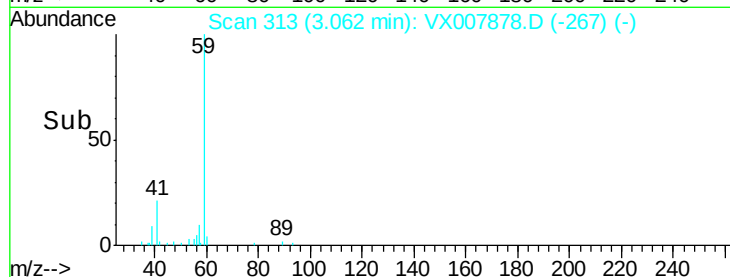
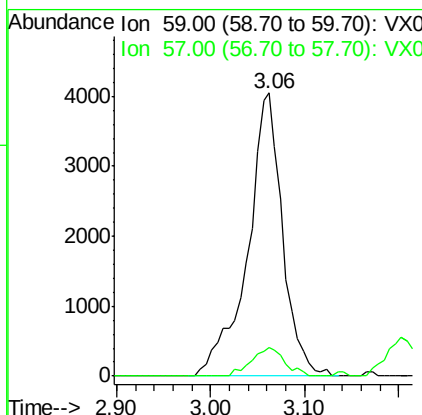
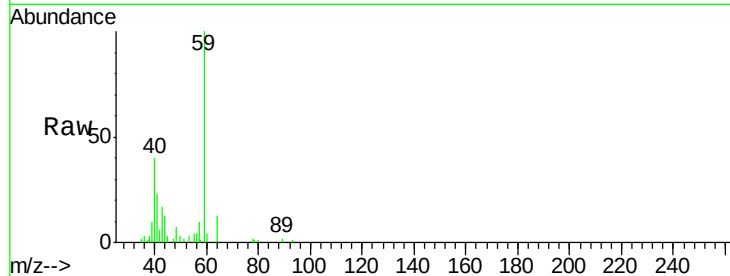
#11
Tert butyl alcohol
Concen: 15.593 ug/l
RT: 3.06 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX007878.D
Acq: 07 Mar 2019 12:36

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.7	8.2	12.2

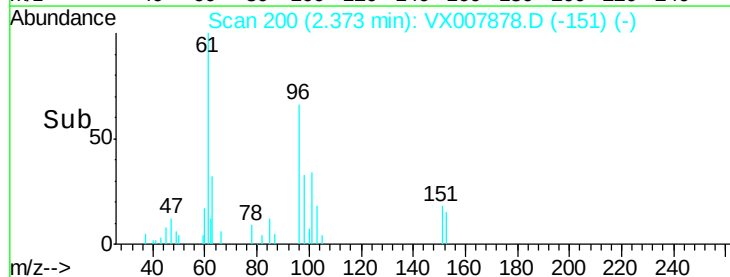
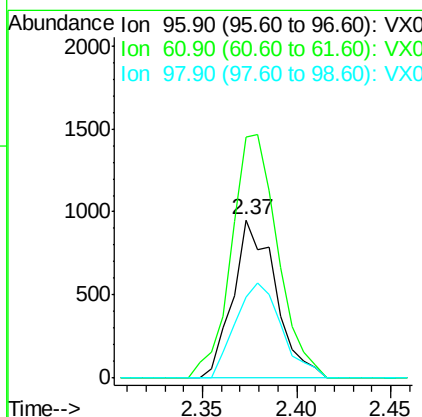
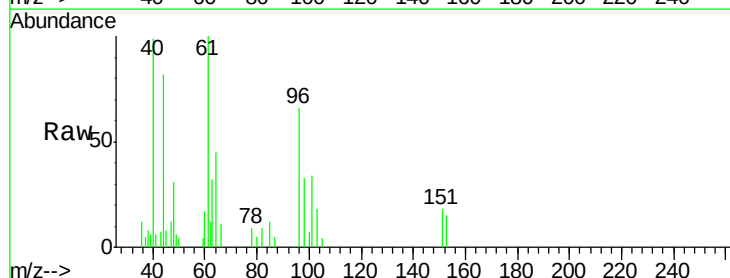
Manual Integrations
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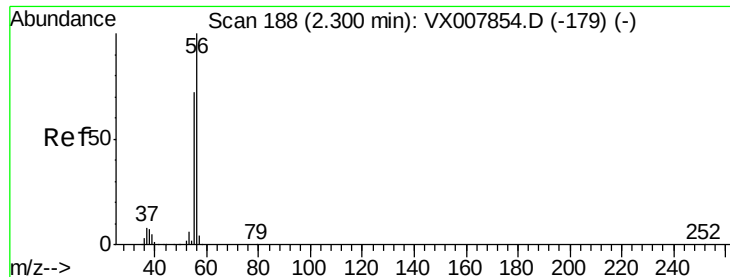
MMDadoda
3/8/2019 9:40:34 AM



#12
1,1-Dichloroethene
Concen: 0.612 ug/l
RT: 2.37 min Scan# 200
Delta R.T. 0.00 min
Lab File: VX007878.D
Acq: 07 Mar 2019 12:36

Tgt Ion	Ratio	Lower	Upper
96	100		
61	152.4	129.8	194.6
98	51.1	51.0	76.6





#13

Acrolein

Concen: 19.233 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.01 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion: 56 Resp: 6818

Ion Ratio Lower Upper

56 100

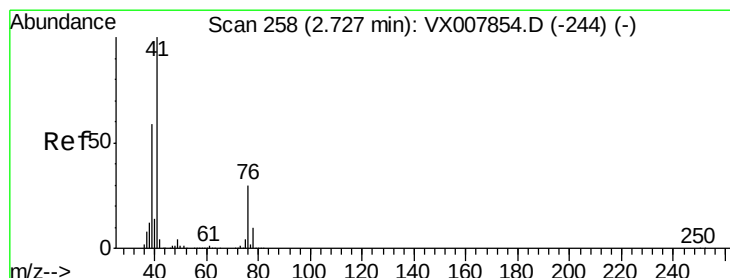
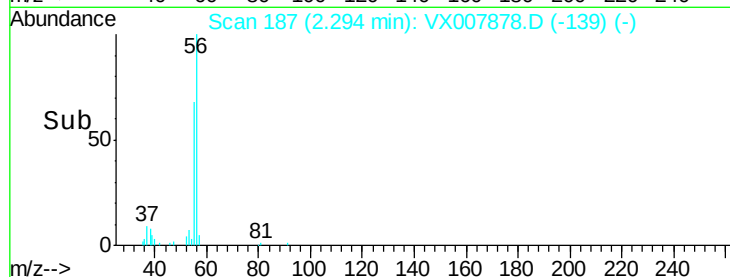
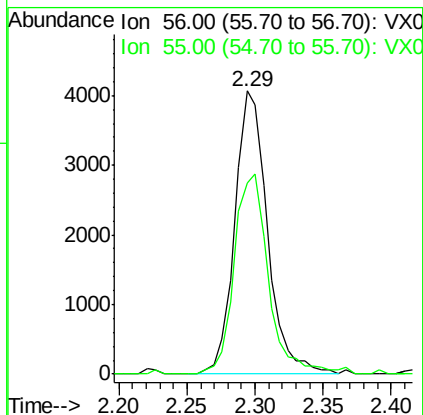
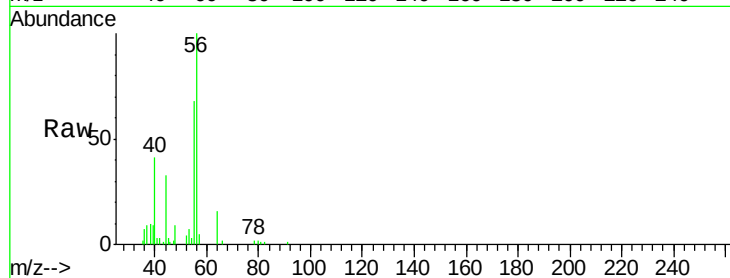
55 74.4 57.8 86.6

Manual Integrations

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MMDadoda

3/8/2019 9:40:34 AM



#14

Allyl chloride

Concen: 0.562 ug/l

RT: 2.73 min Scan# 259

Delta R.T. 0.01 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

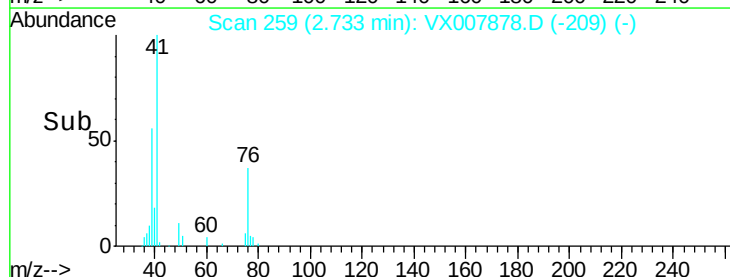
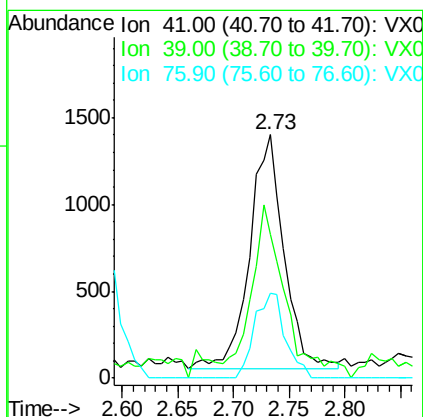
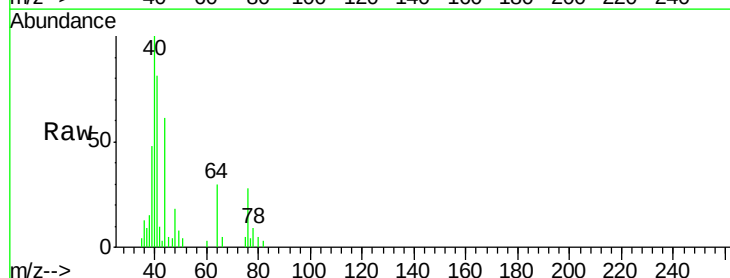
Tgt Ion: 41 Resp: 2884

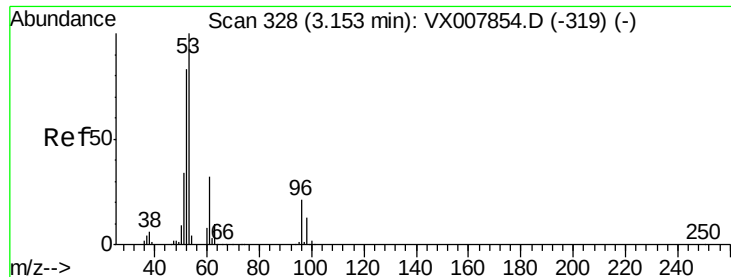
Ion Ratio Lower Upper

41 100

39 74.0 46.1 69.1#

76 32.7 24.0 36.0





#15

Acrylonitrile

Concen: 3.122 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.01 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Instrument :

MSVOA_X

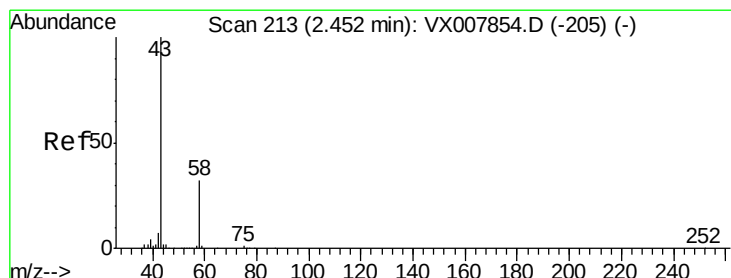
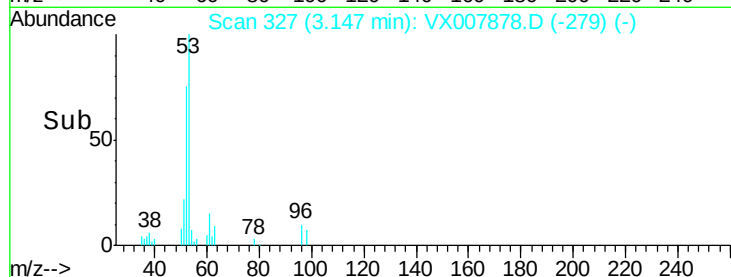
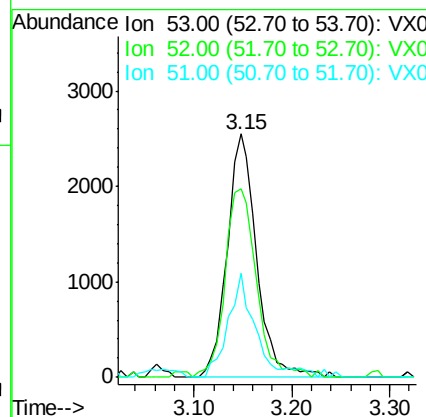
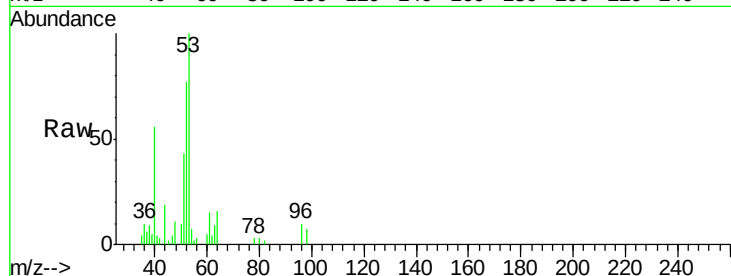
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:	53	Resp:	5333
Ion Ratio	Lower	Upper	
53	100		
52	82.8	66.0	99.0
51	37.2	28.0	42.0

Manual Integrations
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MMDadoda
3/8/2019 9:40:34 AM



#16

Acetone

Concen: 2.991 ug/l

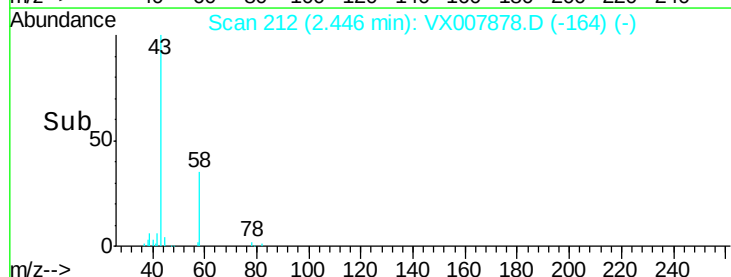
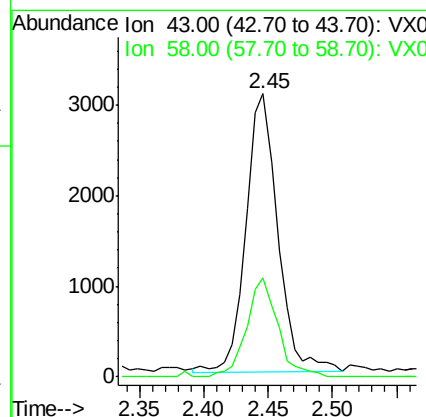
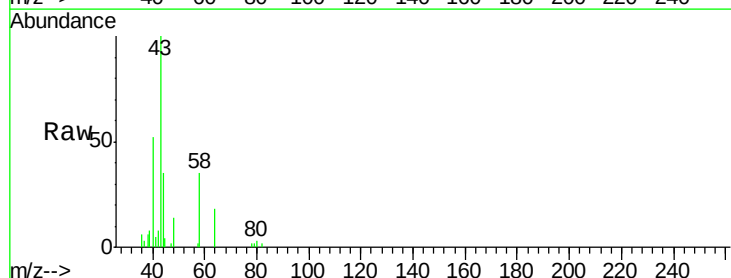
RT: 2.45 min Scan# 212

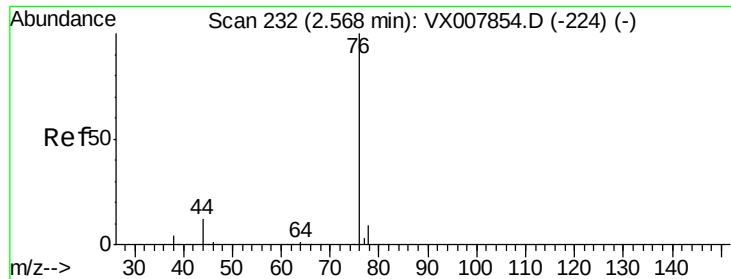
Delta R.T. -0.01 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Tgt Ion:	43	Resp:	5239
Ion Ratio	Lower	Upper	
43	100		
58	35.7	25.5	38.3





#17

Carbon Disulfide

Concen: 0.271 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion: 76 Resp: 5319

Ion Ratio Lower Upper

76 100

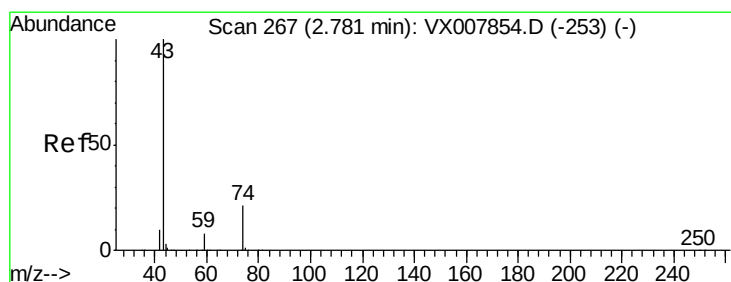
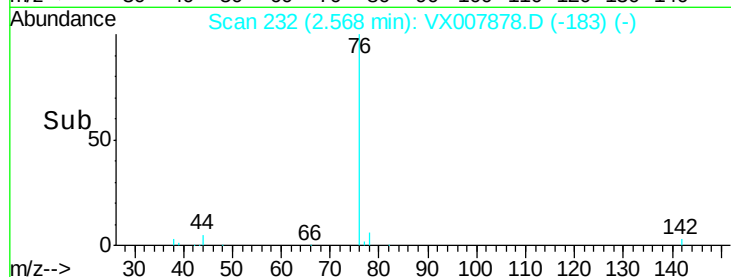
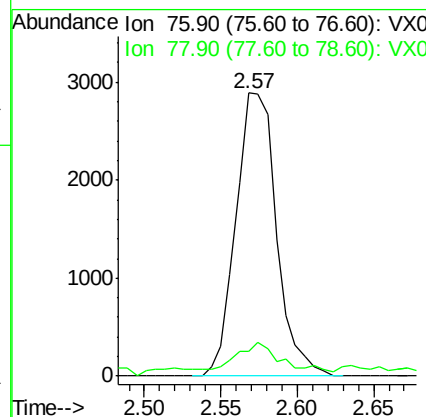
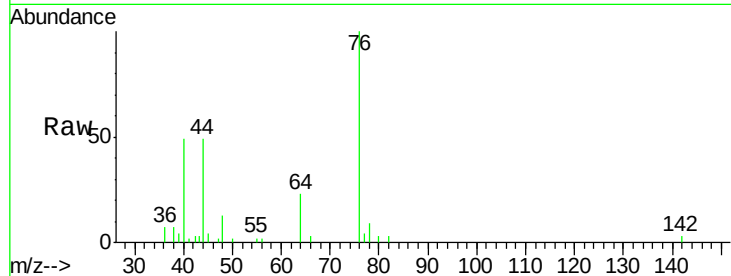
78 6.4 7.2 10.8#

Manual Integrations

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MMDadoda

3/8/2019 9:40:34 AM



#18

Methyl Acetate

Concen: 0.614 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX007878.D

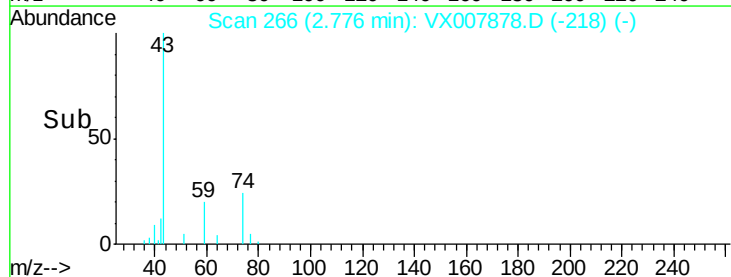
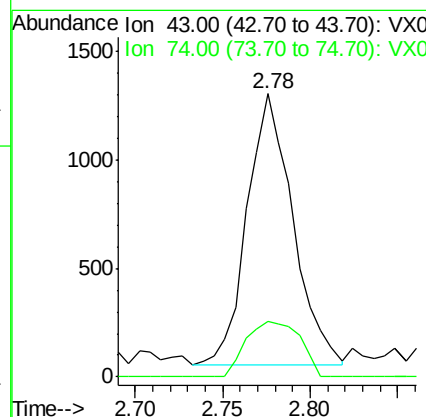
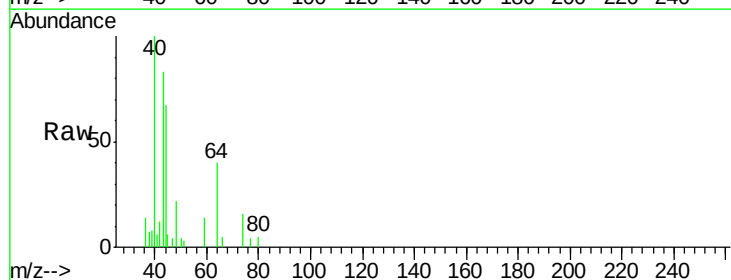
Acq: 07 Mar 2019 12:36

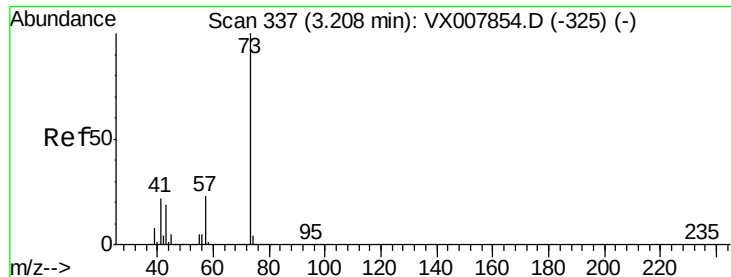
Tgt Ion: 43 Resp: 2284

Ion Ratio Lower Upper

43 100

74 23.9 17.8 26.6





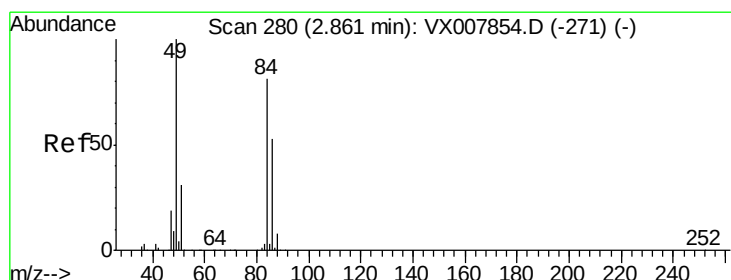
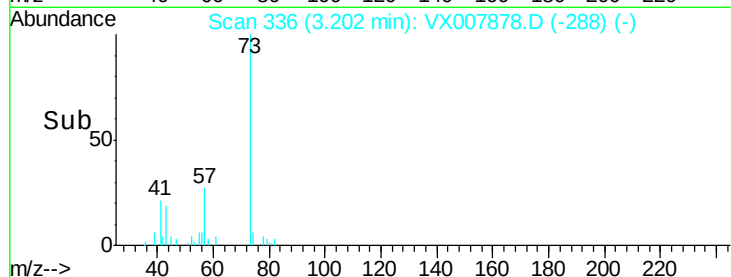
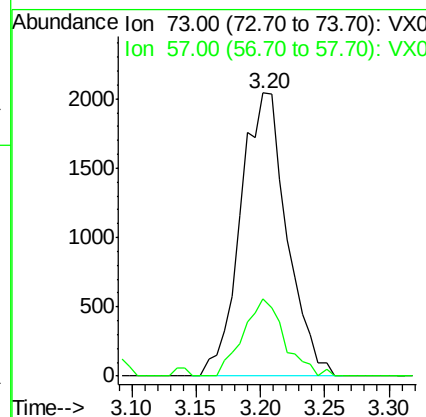
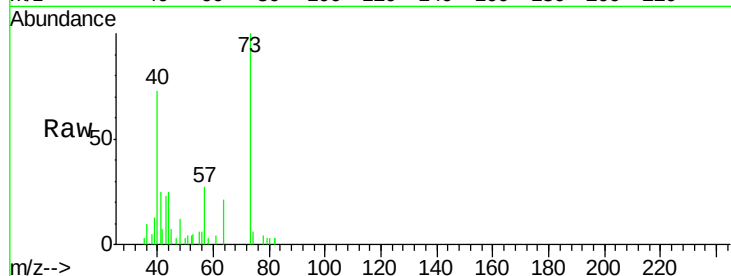
#19
Methyl tert-butyl Ether
Concen: 0.606 ug/l
RT: 3.20 min Scan# 336
Delta R.T. -0.01 min
Lab File: VX007878.D
Acq: 07 Mar 2019 12:36

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
73	100		
57	27.3	18.2	27.4

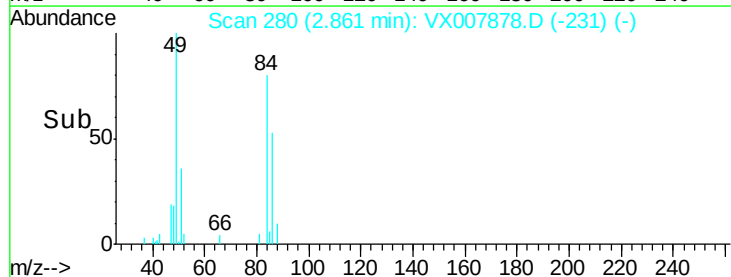
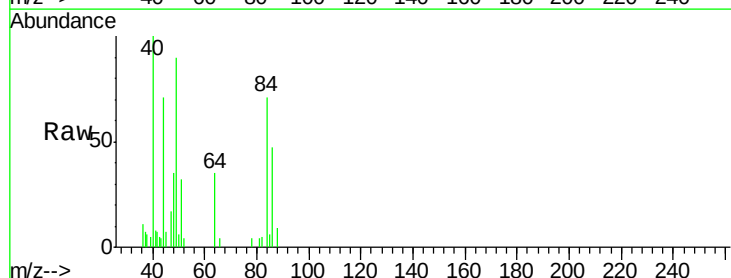
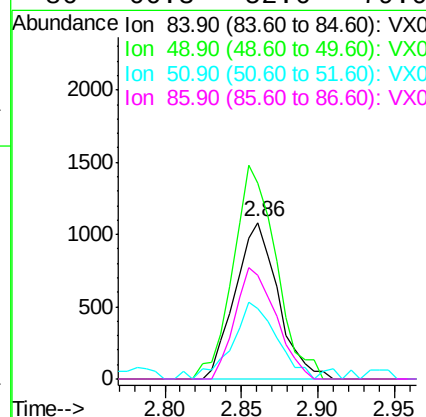
Manual Integrations
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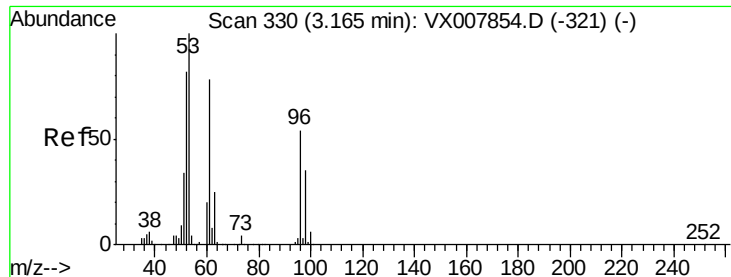
MMDadoda
3/8/2019 9:40:34 AM



#20
Methylene Chloride
Concen: 0.760 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007878.D
Acq: 07 Mar 2019 12:36

Tgt Ion	Ratio	Lower	Upper
84	100		
49	125.6	99.3	148.9
51	45.0	31.3	46.9
86	66.3	52.6	79.0





#21

trans-1,2-Dichloroethene

Concen: 0.582 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.00 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Instrument :

MSVOA_X

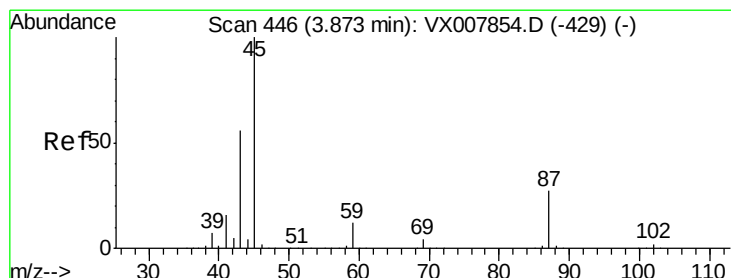
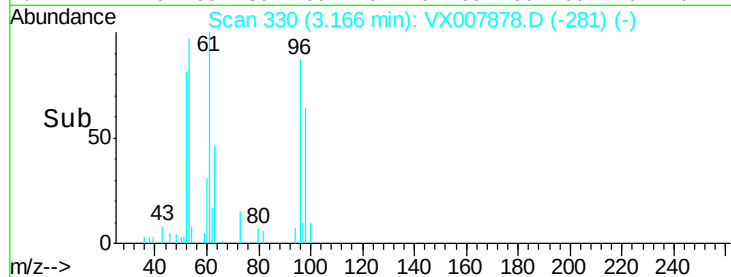
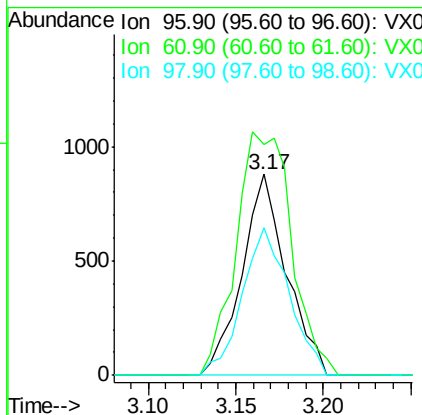
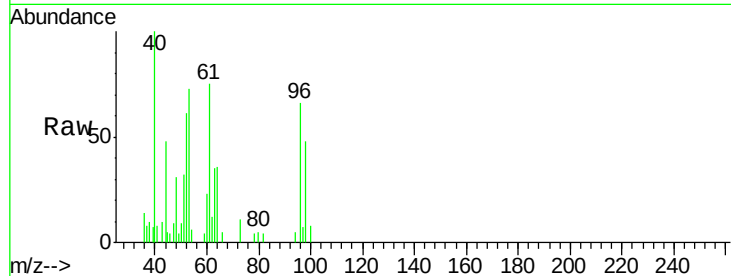
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:	96	Resp:	1564
Ion	Ratio	Lower	Upper
96	100		
61	115.1	114.4	171.6
98	73.2	51.1	76.7

Manual Integrations
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MMDadoda
3/8/2019 9:40:34 AM



#22

Diisopropyl ether

Concen: 0.620 ug/l

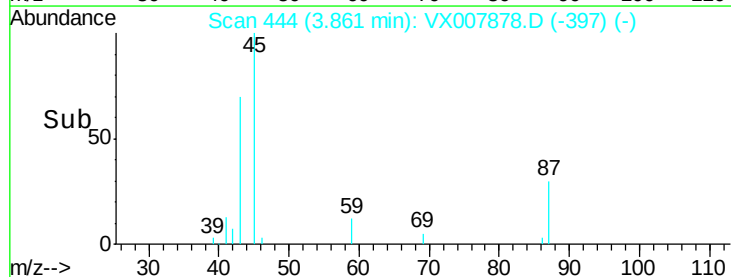
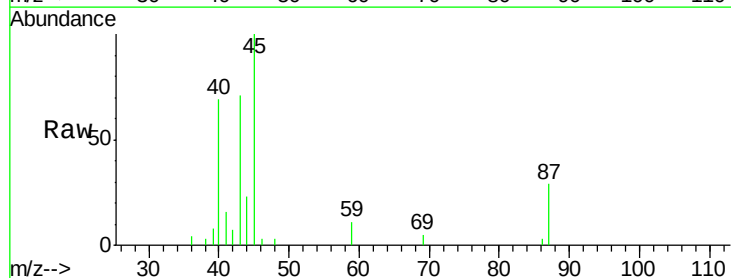
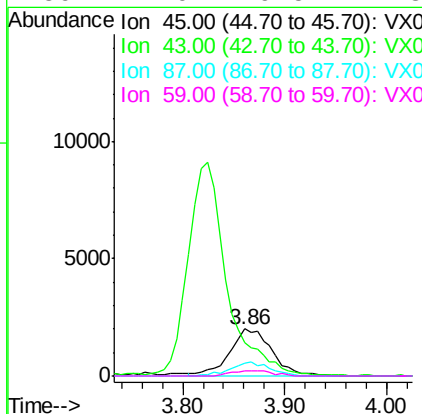
RT: 3.86 min Scan# 444

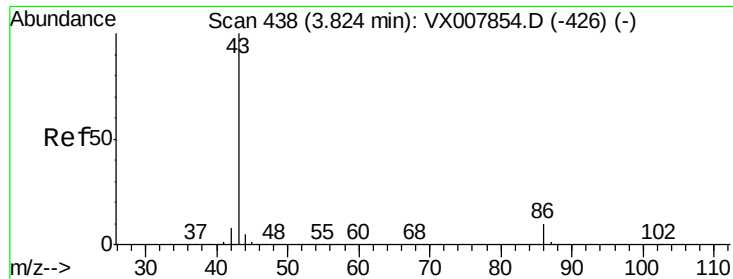
Delta R.T. -0.01 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Tgt Ion:	45	Resp:	5832
Ion	Ratio	Lower	Upper
45	100		
43	68.0	45.3	67.9#
87	28.5	21.4	32.0
59	11.0	9.5	14.3





#23

Vinyl Acetate

Concen: 2.936 ug/l

RT: 3.82 min Scan# 438

Delta R.T. 0.00 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion: 43 Resp: 24207

Ion Ratio Lower Upper

43 100

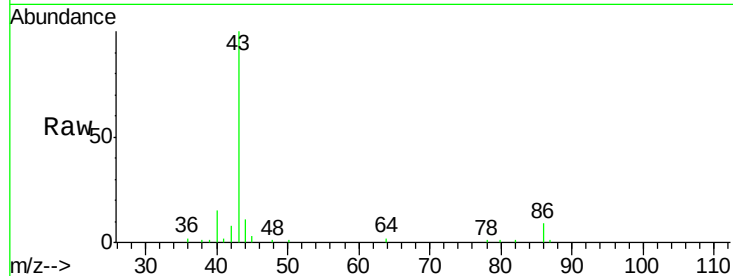
86 9.4 7.9 11.9

Manual Integrations

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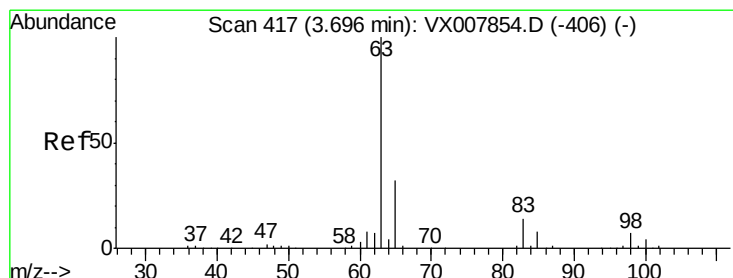
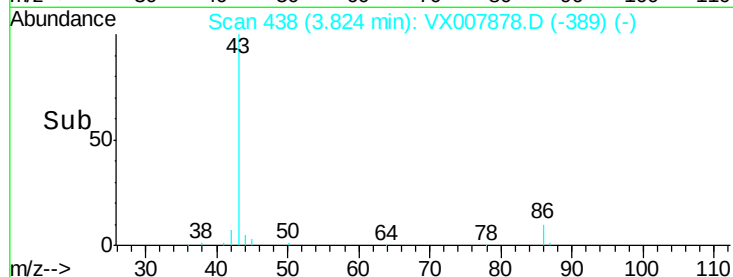
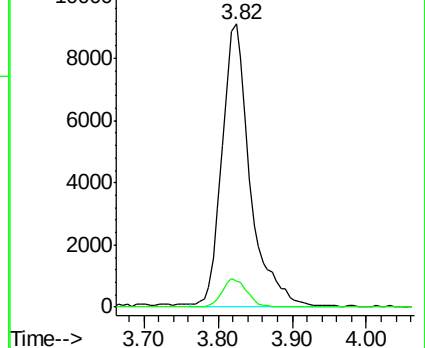
MMDadoda

3/8/2019 9:40:34 AM



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0



#24

1,1-Dichloroethane

Concen: 0.614 ug/l

RT: 3.70 min Scan# 418

Delta R.T. 0.01 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

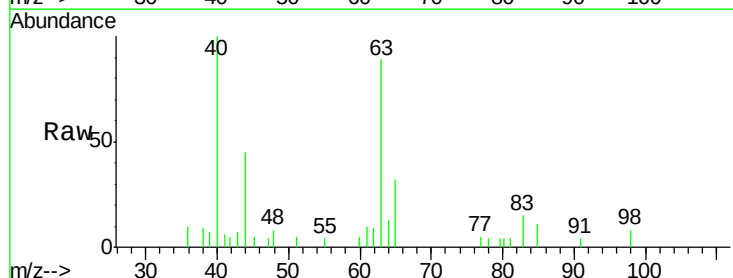
Tgt Ion: 63 Resp: 3107

Ion Ratio Lower Upper

63 100

98 9.2 3.3 9.8

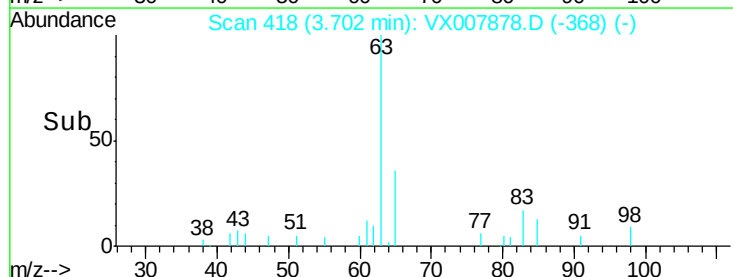
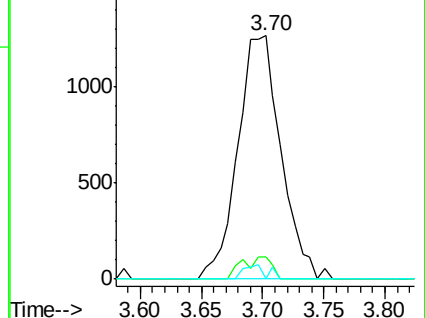
100 0.0 2.3 6.8#

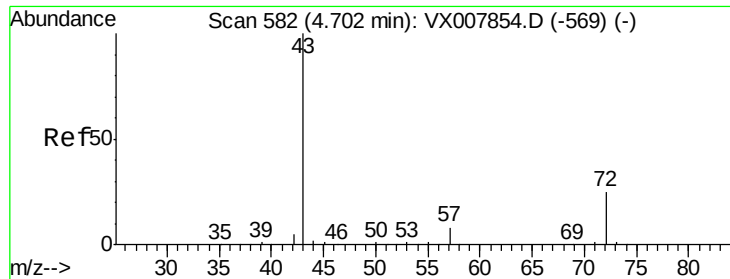


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0





#25

2-Butanone

Concen: 2.869 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.01 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion: 43 Resp: 7114

Ion Ratio Lower Upper

43 100

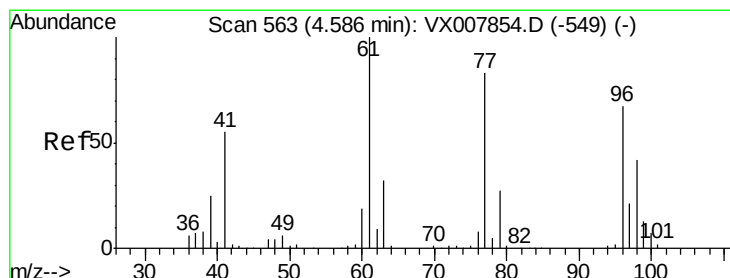
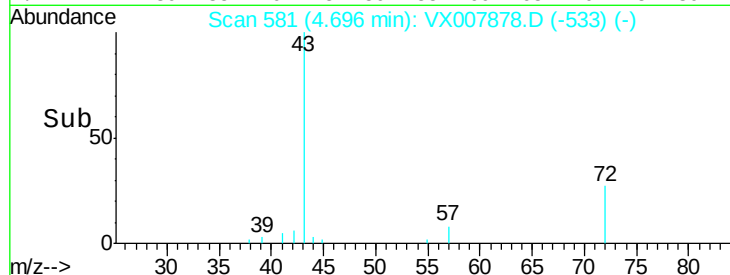
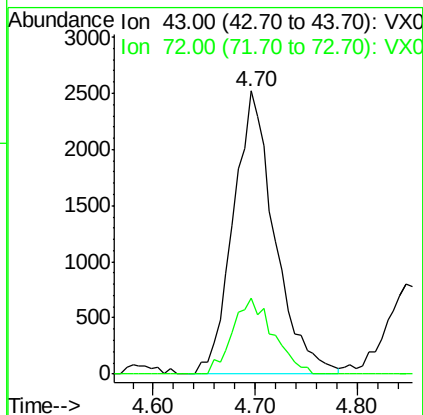
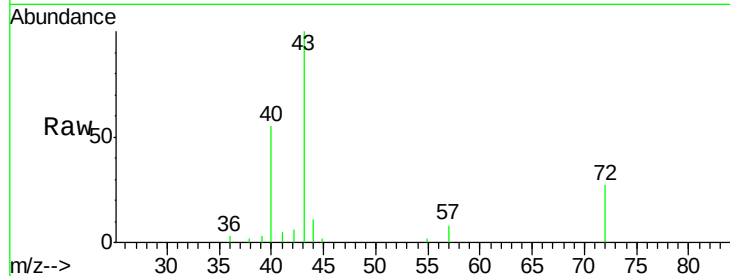
72 26.7 19.9 29.9

Manual Integrations

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MMDadoda

3/8/2019 9:40:34 AM



#26

2,2-Dichloropropane

Concen: 0.591 ug/l

RT: 4.57 min Scan# 561

Delta R.T. -0.01 min

Lab File: VX007878.D

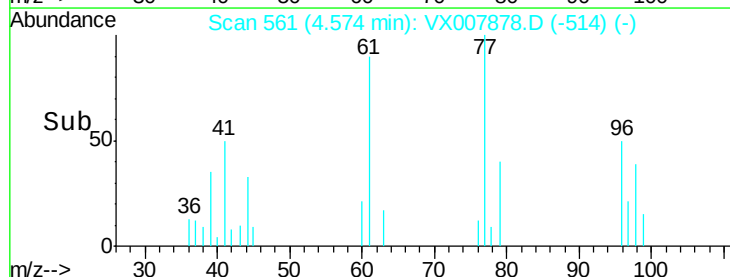
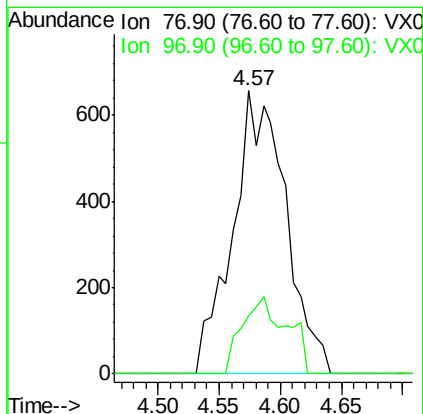
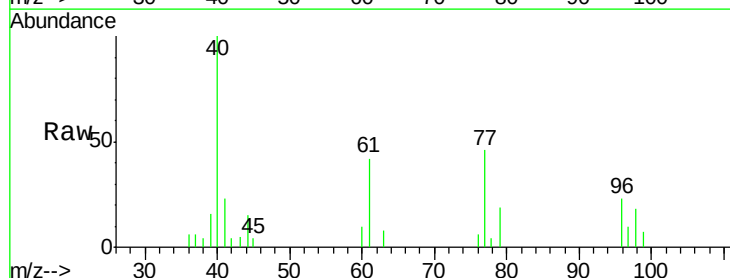
Acq: 07 Mar 2019 12:36

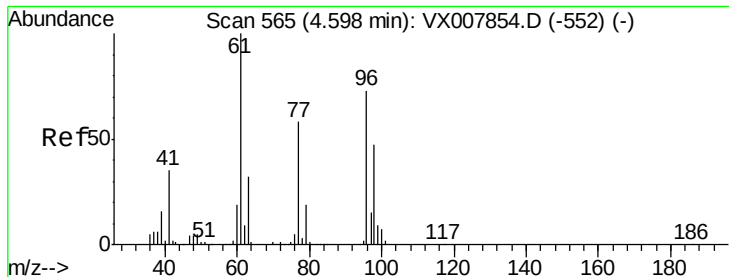
Tgt Ion: 77 Resp: 1981

Ion Ratio Lower Upper

77 100

97 22.8 12.2 36.6





#27

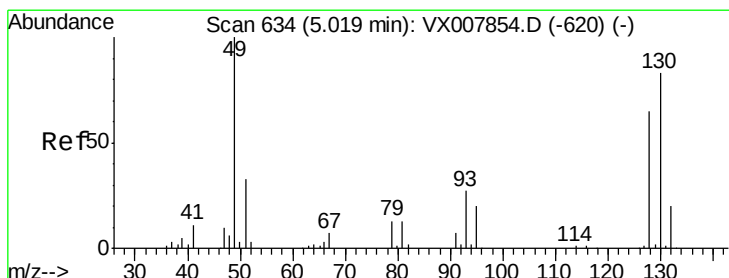
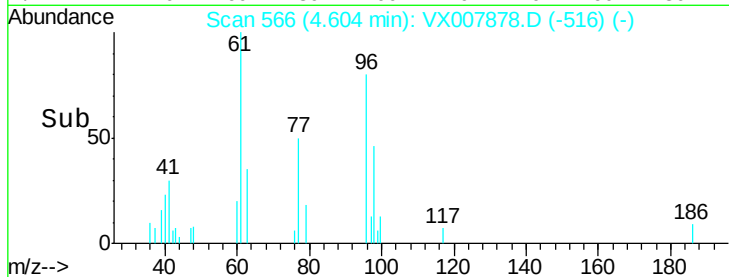
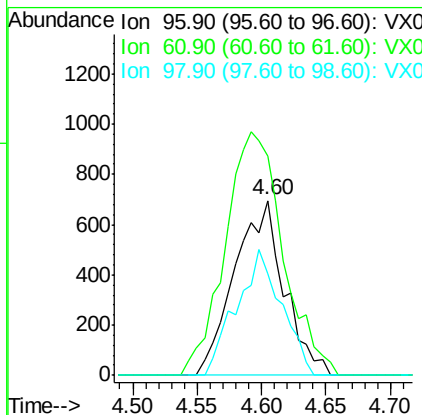
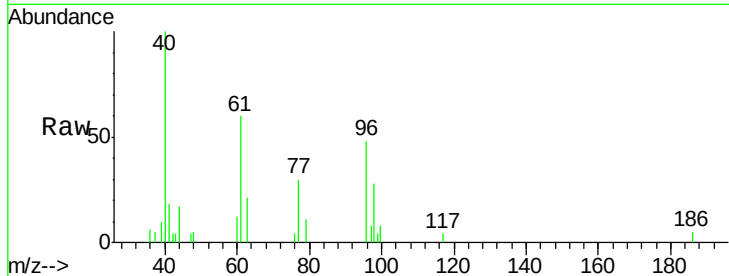
cis-1,2-Dichloroethene
Concen: 0.606 ug/l
RT: 4.60 min Scan# 566
Delta R.T. 0.01 min
Lab File: VX007878.D
Acq: 07 Mar 2019 12:36

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT1-2019

Tot Ion	Ratio	Resp	Lower	Upper
96	100	1863		
61	162.2	0.0	288.0	
98	64.9	0.0	129.0	

Manual Integrations
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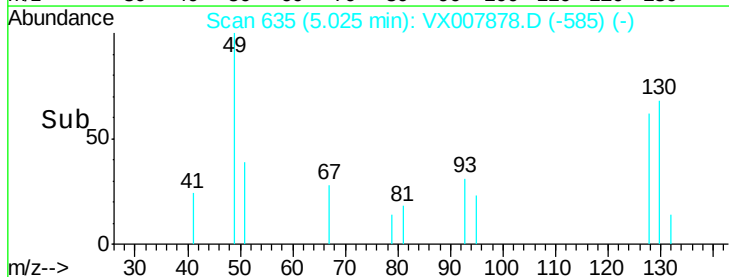
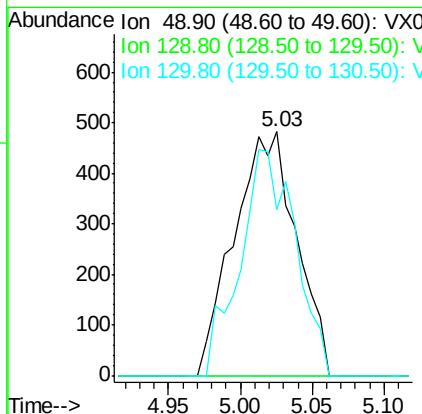
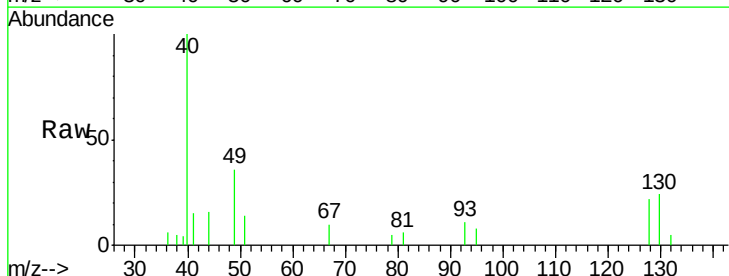
MMDadoda
3/8/2019 9:40:34 AM

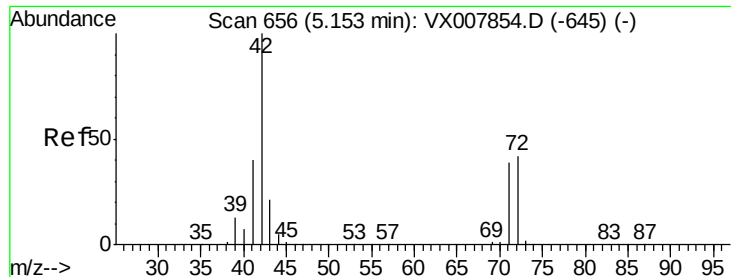


#28

Bromochloromethane
Concen: 0.611 ug/l
RT: 5.03 min Scan# 635
Delta R.T. 0.01 min
Lab File: VX007878.D
Acq: 07 Mar 2019 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	1442		
129	0.0	0.0	4.0	
130	82.3	65.0	97.4	





#29

Tetrahydrofuran

Concen: 2.924 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.00 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Instrument :

MSVOA_X

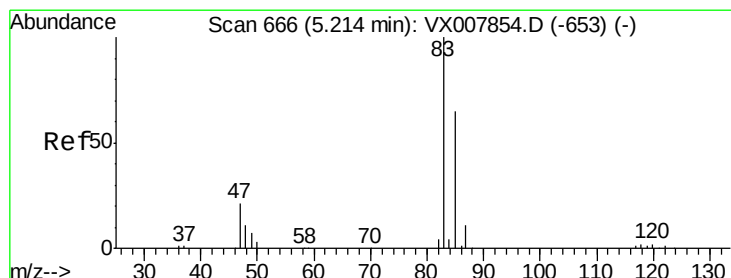
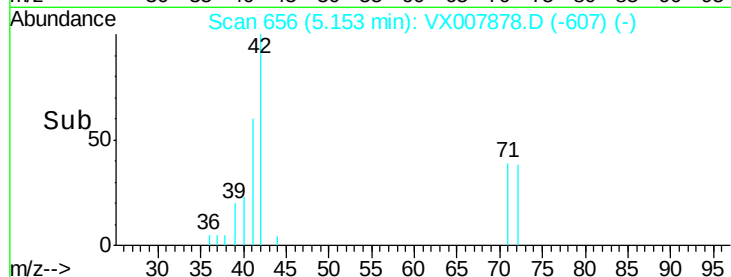
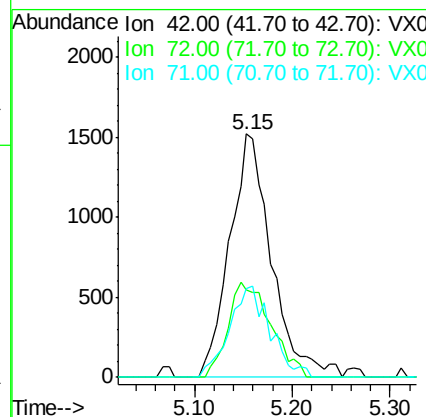
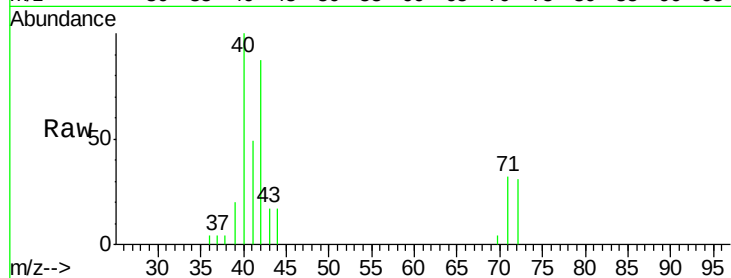
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:	42	Resp:	4523
Ion	Ratio	Lower	Upper
42	100		
72	39.7	33.8	50.6
71	36.5	31.5	47.3

Manual Integrations
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3/8/2019 9:40:34 AM



#30

Chloroform

Concen: 0.579 ug/l

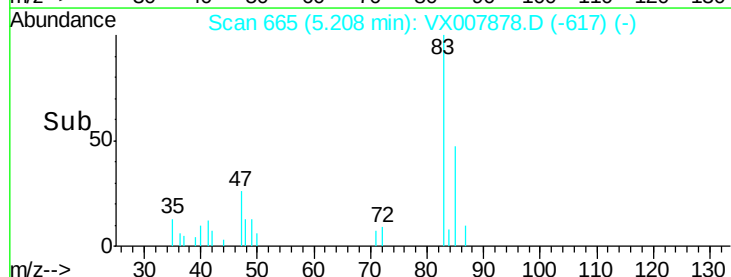
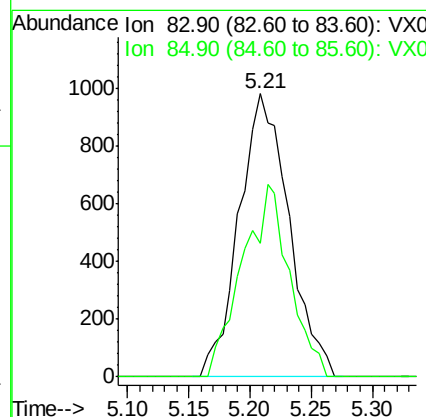
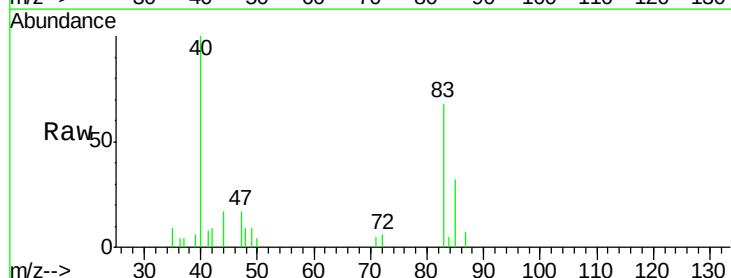
RT: 5.21 min Scan# 665

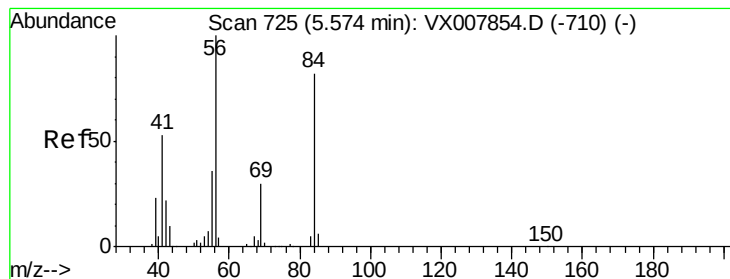
Delta R.T. -0.01 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Tgt Ion:	83	Resp:	2773
Ion	Ratio	Lower	Upper
83	100		
85	47.2	51.8	77.6#





#31

Cyclohexane

Concen: 0.547 ug/l

RT: 5.57 min Scan# 725

Delta R.T. 0.00 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Instrument :

MSVOA_X

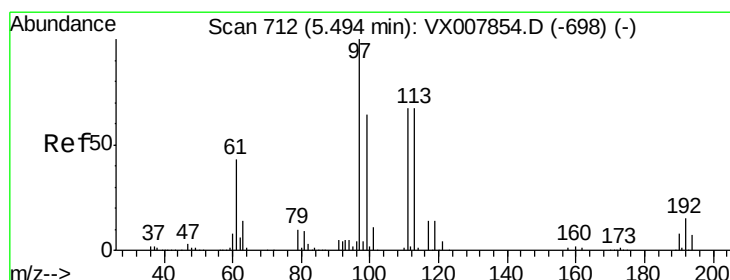
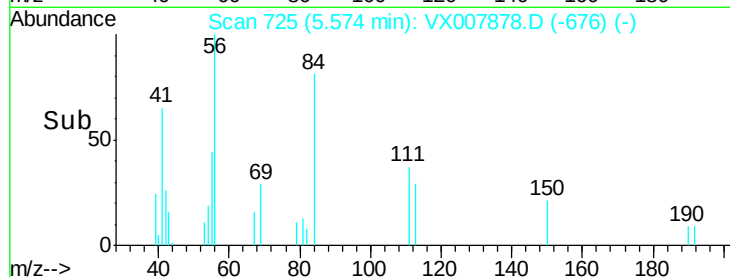
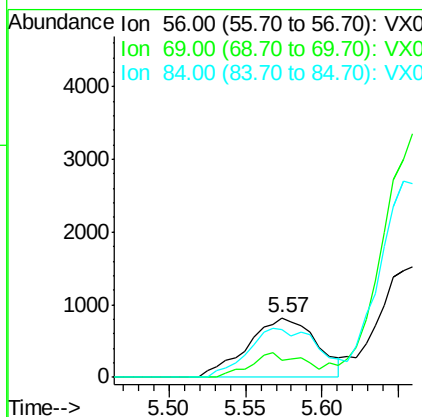
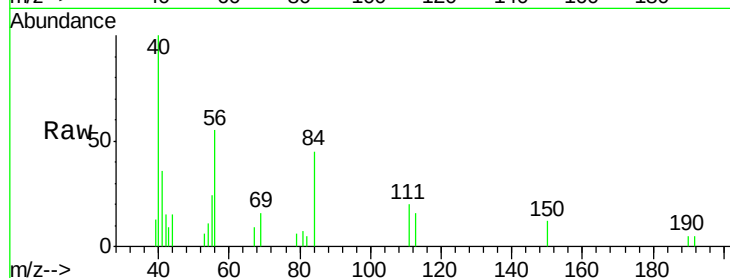
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:	56	Resp:	2544
Ion	Ratio	Lower	Upper
56	100		
69	29.2	24.0	36.0
84	81.2	65.3	97.9

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 0.576 ug/l

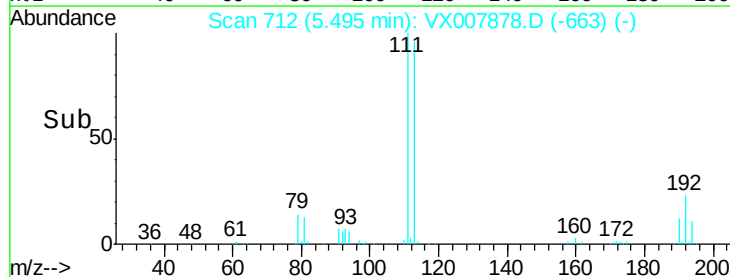
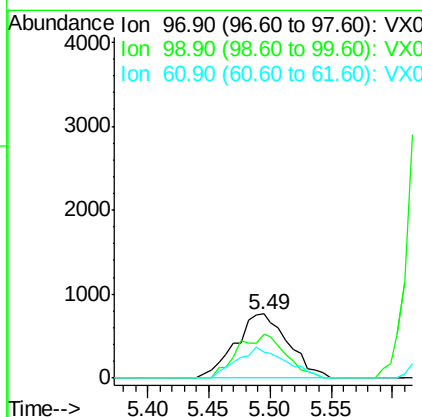
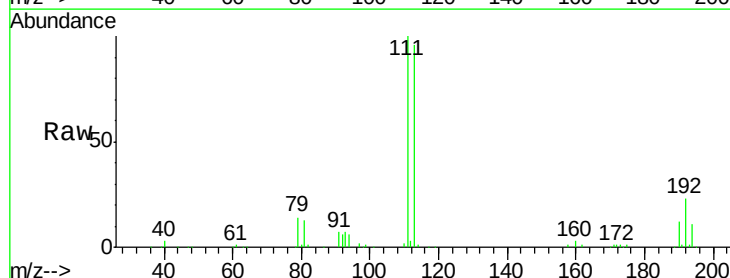
RT: 5.49 min Scan# 712

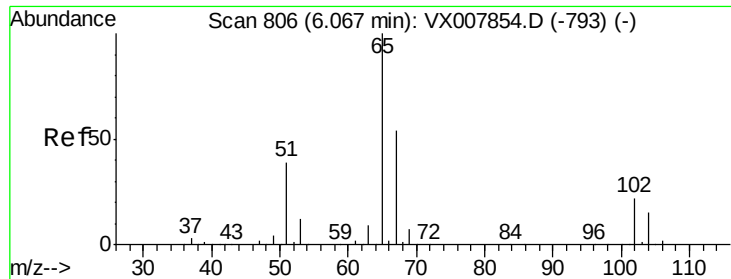
Delta R.T. 0.00 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Tgt Ion:	97	Resp:	2288
Ion	Ratio	Lower	Upper
97	100		
99	0.0	52.2	78.2#
61	43.7	34.9	52.3





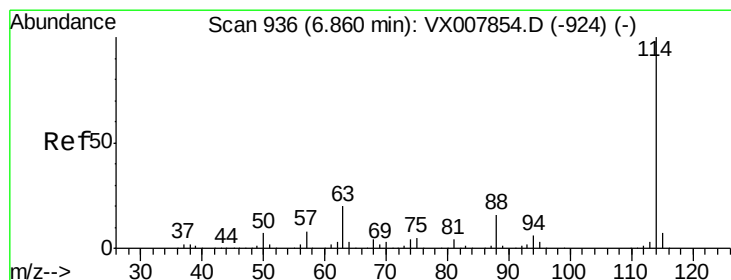
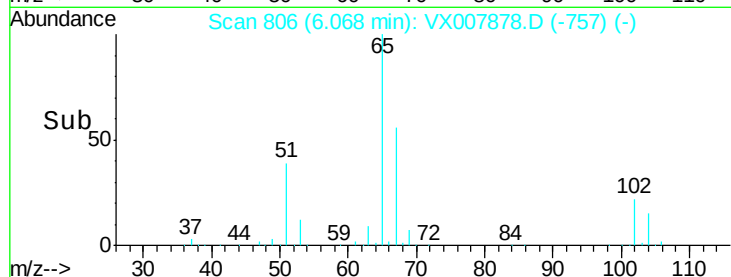
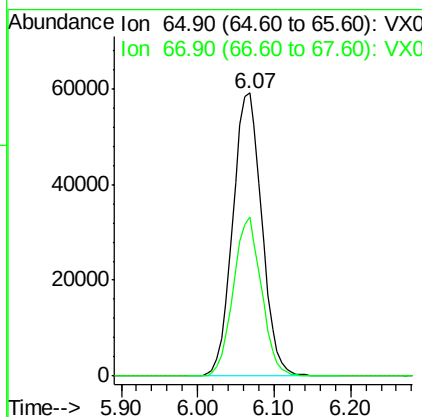
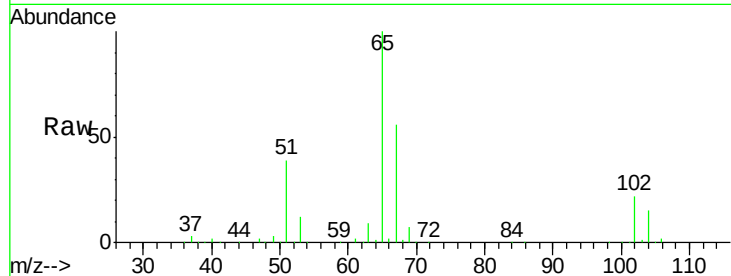
#33
 1,2-Dichloroethane-d4
 Concen: 51.431 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX007878.D
 Acq: 07 Mar 2019 12:36

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT1-2019

Tot Ion	Ratio	Resp	Lower	Upper
65	100	155650		
67	54.3	0.0	110.0	

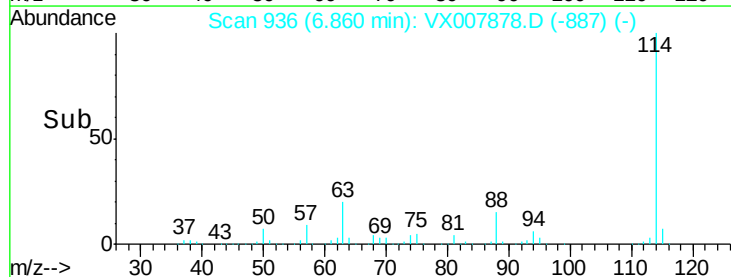
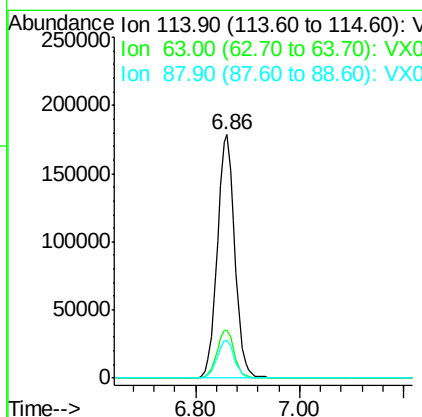
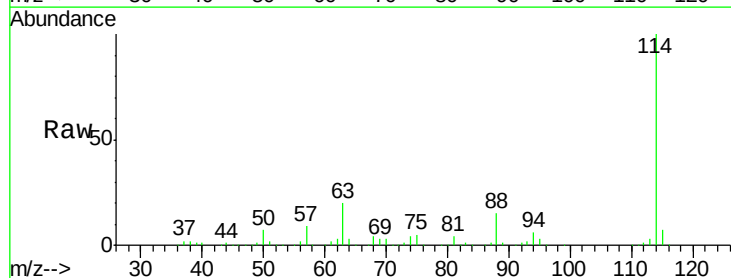
Manual Integrations
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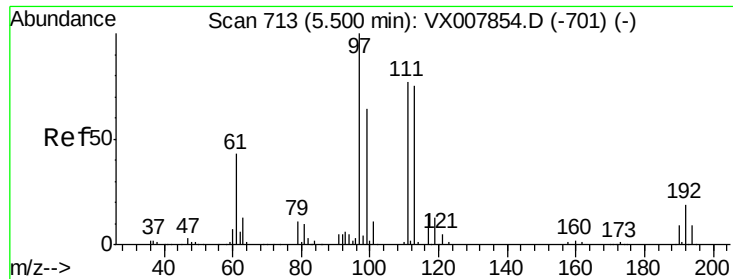
MMDadoda
 3/8/2019 9:40:34 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX007878.D
 Acq: 07 Mar 2019 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	419072		
63	19.6	0.0	39.8	
88	15.3	0.0	31.4	





#35

Dibromofluoromethane

Concen: 50.249 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Instrument :

MSVOA_X

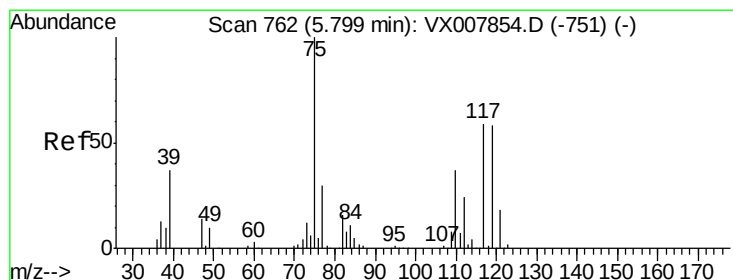
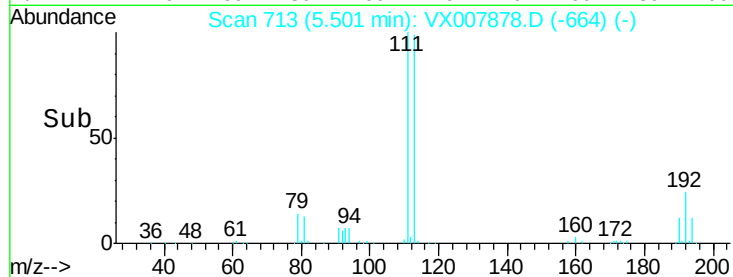
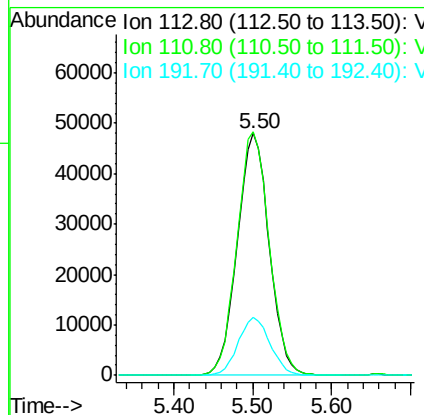
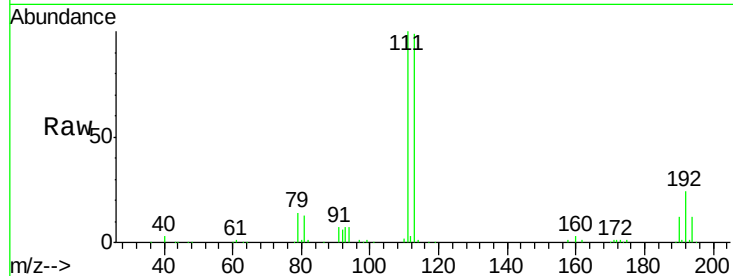
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:	113	Resp:	134701
Ion Ratio	Lower	Upper	
113	100		
111	102.1	81.4	122.0
192	24.0	19.4	29.0

Manual Integrations
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3/8/2019 9:40:34 AM



#36

1,1-Dichloropropene

Concen: 0.548 ug/l

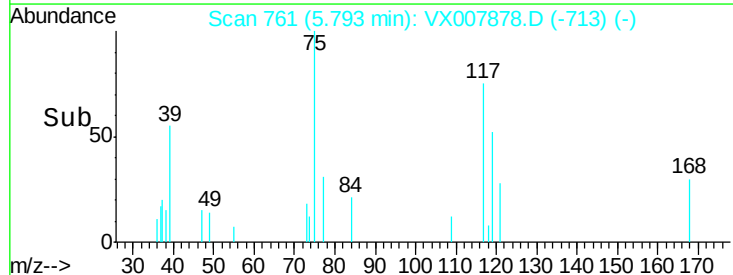
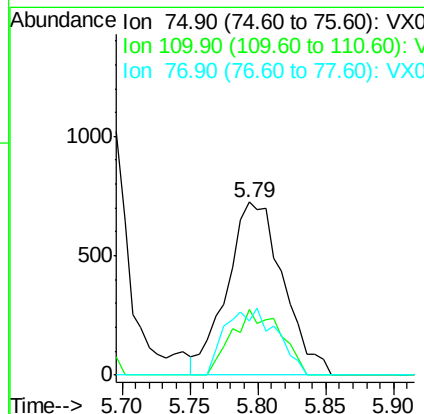
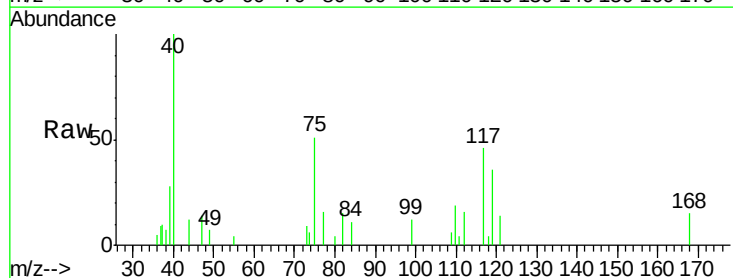
RT: 5.79 min Scan# 761

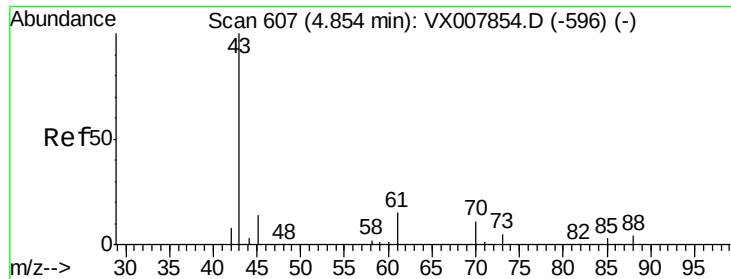
Delta R.T. -0.01 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Tgt Ion:	75	Resp:	2081
Ion Ratio	Lower	Upper	
75	100		
110	33.2	18.4	55.0
77	35.4	25.0	37.4





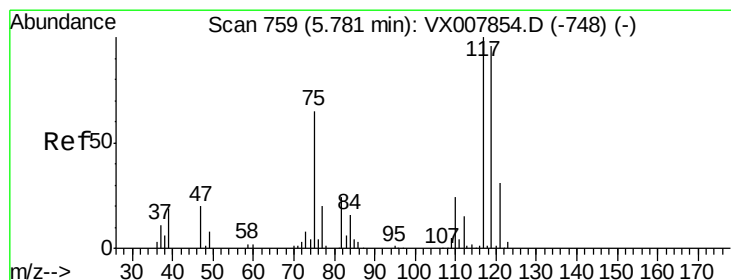
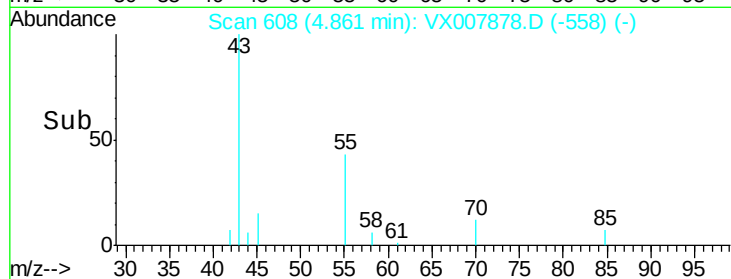
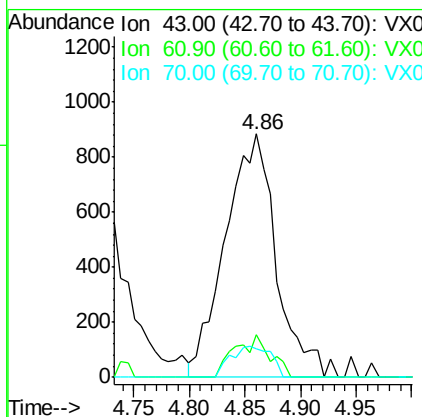
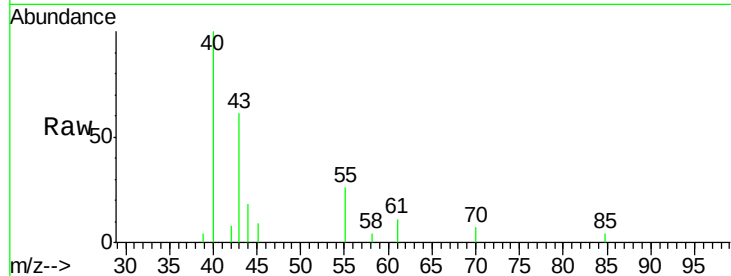
#37
Ethyl Acetate
Concen: 0.624 ug/l
RT: 4.86 min Scan# 608
Delta R.T. 0.01 min
Lab File: VX007878.D
Acq: 07 Mar 2019 12:36

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT1-2019

Tot Ion:	43	Resp:	2809
Ion	Ratio	Lower	Upper
43	100		
61	12.0	11.3	16.9
70	10.0	8.5	12.7

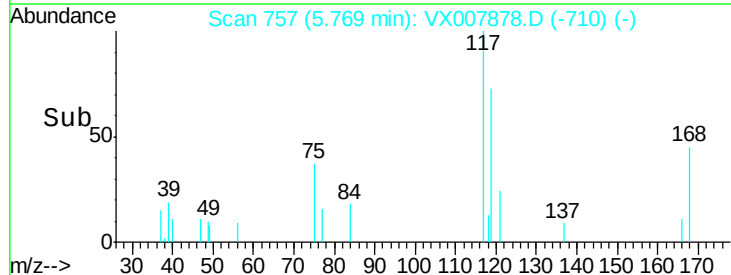
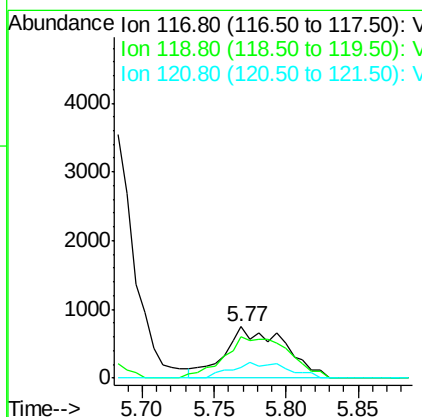
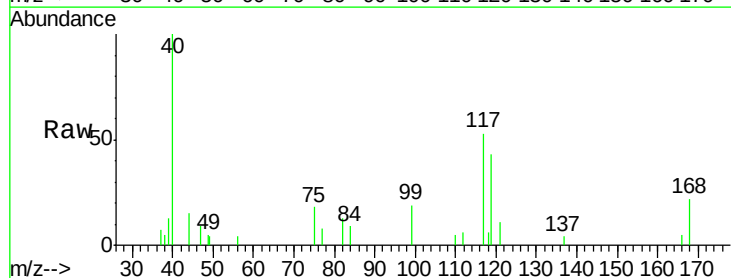
Manual Integrations
APPROVED

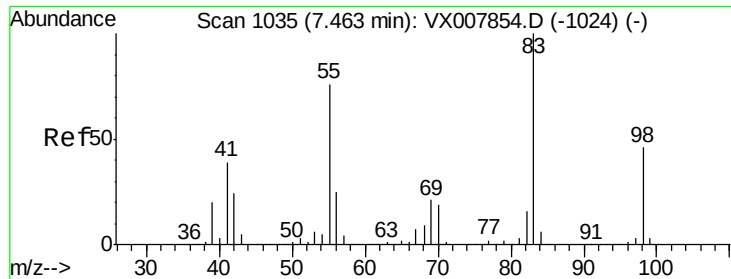
MMDadoda
3/8/2019 9:40:34 AM



#38
Carbon Tetrachloride
Concen: 0.593 ug/l
RT: 5.77 min Scan# 757
Delta R.T. -0.01 min
Lab File: VX007878.D
Acq: 07 Mar 2019 12:36

Tgt Ion:	117	Resp:	2137
Ion	Ratio	Lower	Upper
117	100		
119	80.9	76.2	114.2
121	21.8	24.6	36.8#





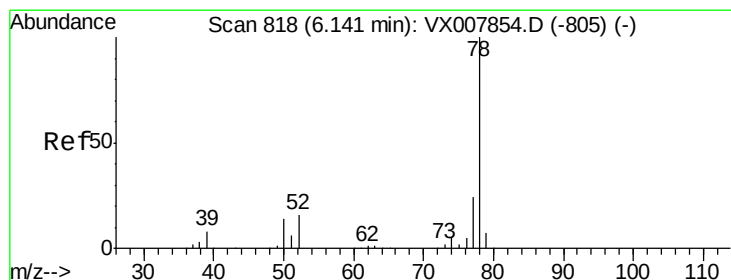
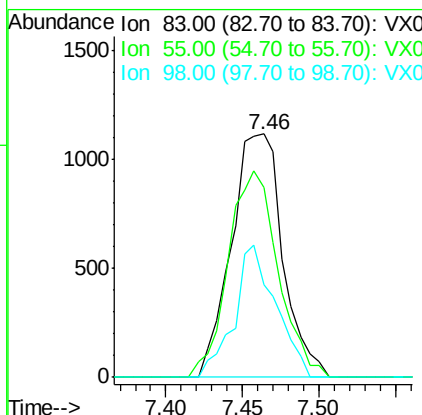
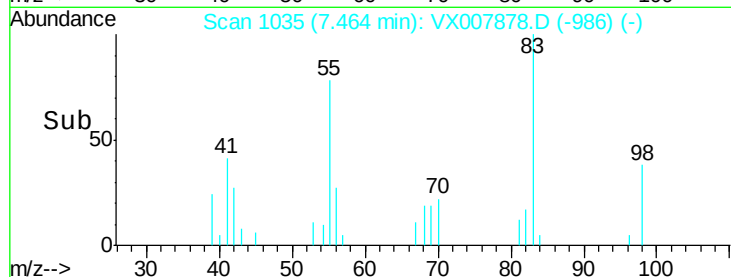
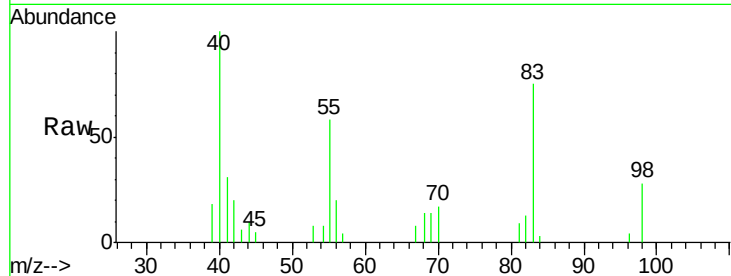
#39
Methylvlcyclohexane
Concen: 0.568 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. 0.00 min
Lab File: VX007878.D
Acq: 07 Mar 2019 12:36

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
83	100		
55	77.7	60.4	90.6
98	37.9	36.5	54.7

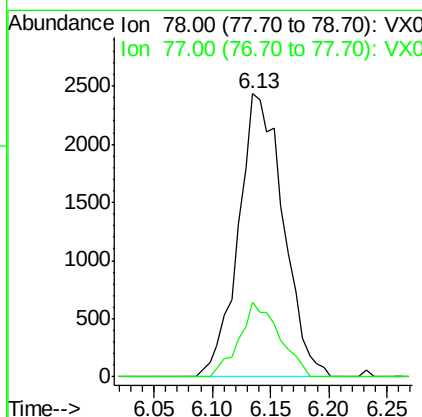
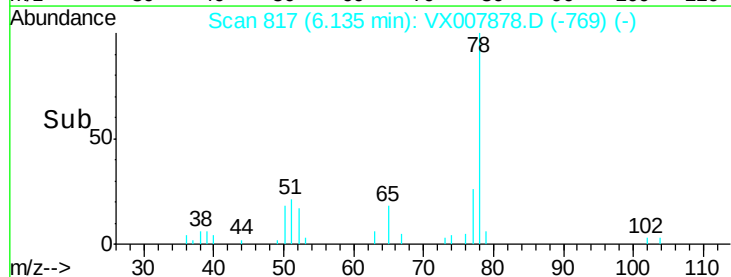
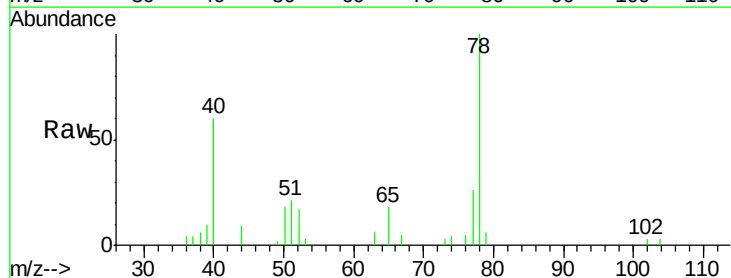
Manual Integrations
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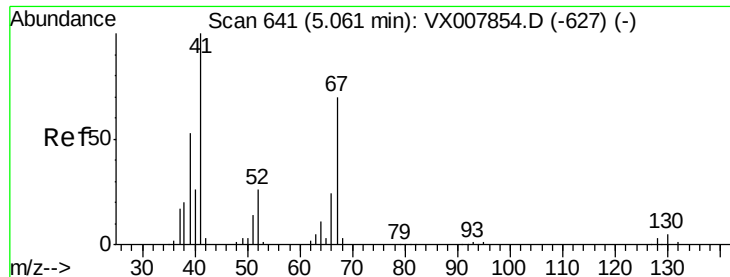
MMDadoda
3/8/2019 9:40:34 AM



#40
Benzene
Concen: 0.576 ug/l
RT: 6.13 min Scan# 817
Delta R.T. -0.01 min
Lab File: VX007878.D
Acq: 07 Mar 2019 12:36

Tgt Ion	Ratio	Lower	Upper
78	100		
77	26.4	19.0	28.4





#41

Methacrylonitrile

Concen: 0.670 ug/l

RT: 5.06 min Scan# 641

Delta R.T. 0.00 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Instrument :

MSVOA_X

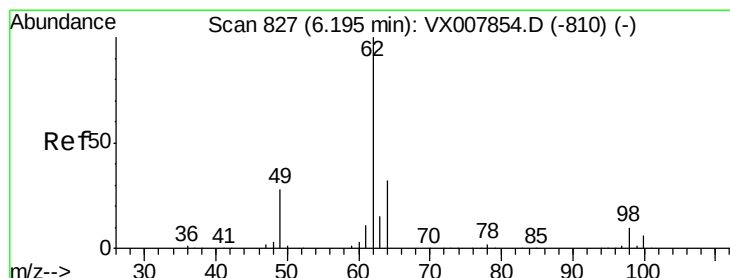
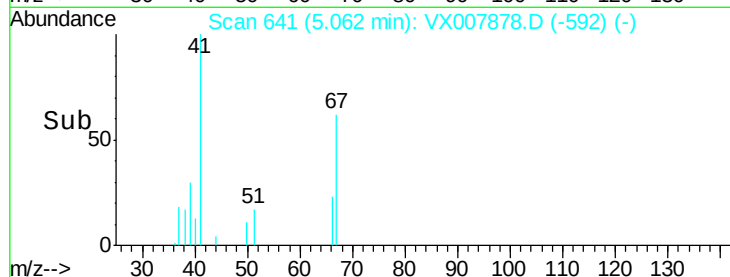
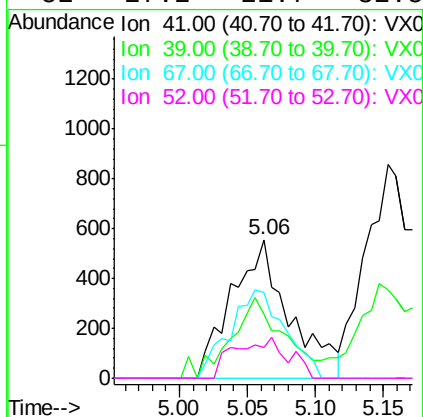
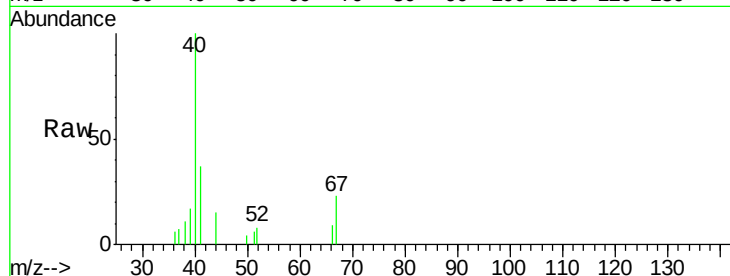
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:	41	Resp:	1644
Ion	Ratio	Lower	Upper
41	100		
39	52.9	41.6	62.4
67	61.0	55.8	83.6
52	27.2	21.7	32.5

Manual Integrations
APPROVED

MMDadoda
3/8/2019 9:40:34 AM



#42

1,2-Dichloroethane

Concen: 0.545 ug/l

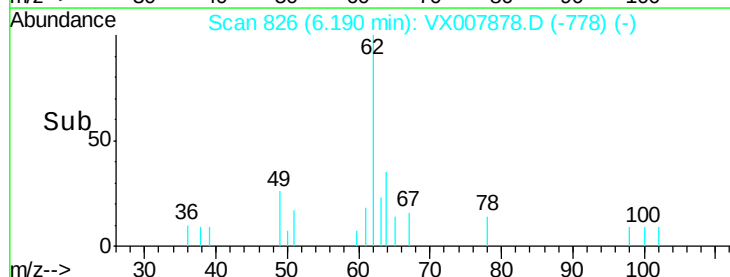
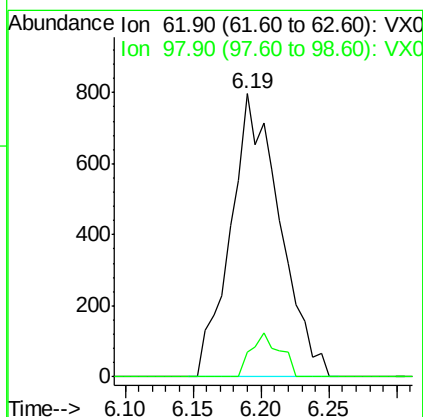
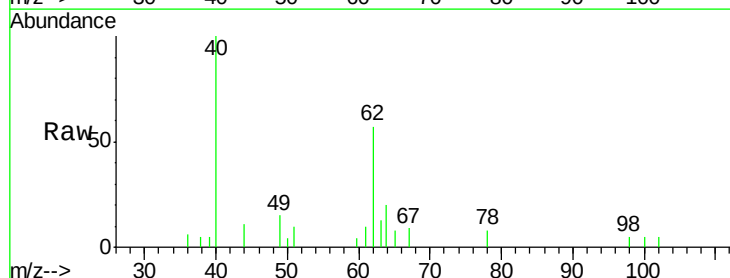
RT: 6.19 min Scan# 826

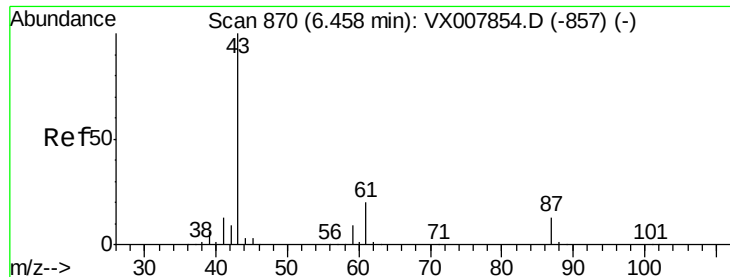
Delta R.T. -0.01 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Tgt Ion:	62	Resp:	2012
Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	20.4





#43

Isopropyl Acetate

Concen: 0.522 ug/l

RT: 6.46 min Scan# 870

Delta R.T. 0.00 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Instrument :

MSVOA_X

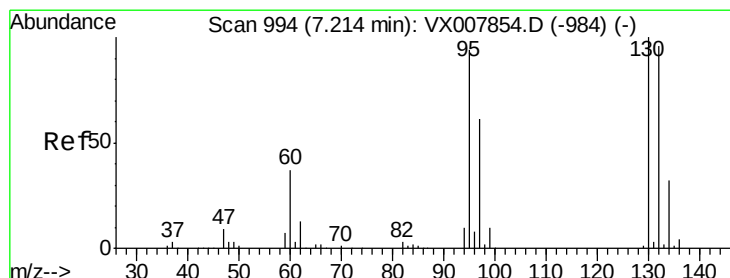
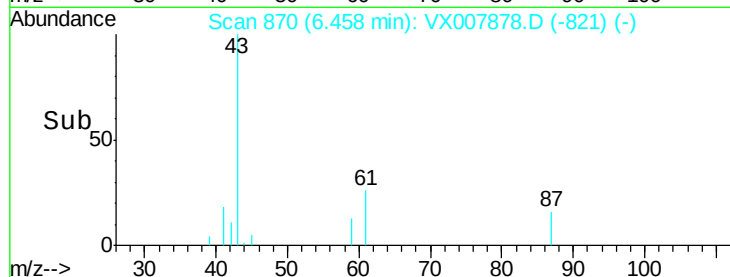
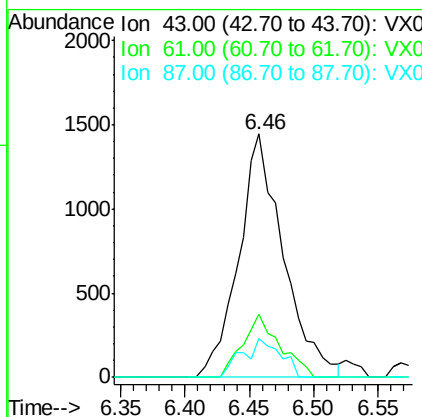
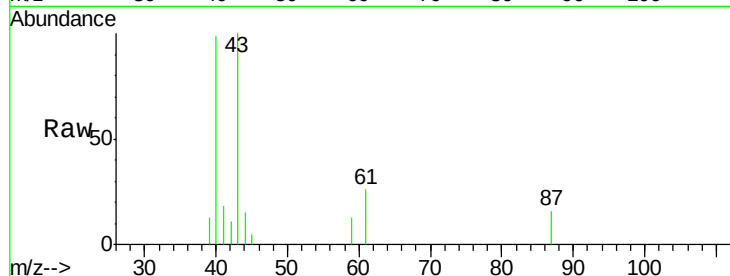
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:	43	Resp:	3477
Ion	Ratio	Lower	Upper
43	100		
61	21.6	16.3	24.5
87	13.6	10.5	15.7

Manual Integrations
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MMDadoda
3/8/2019 9:40:34 AM



#44

Trichloroethene

Concen: 0.611 ug/l

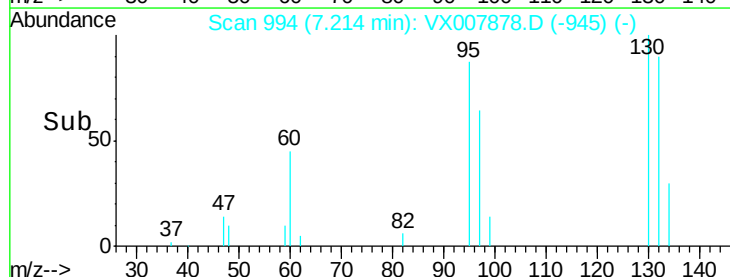
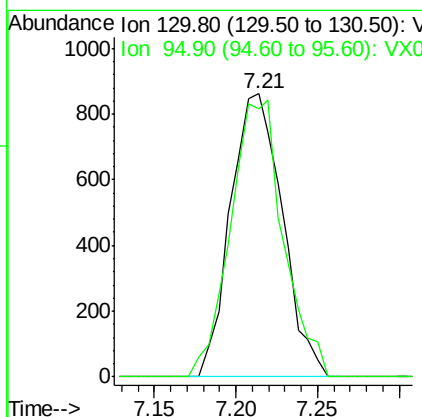
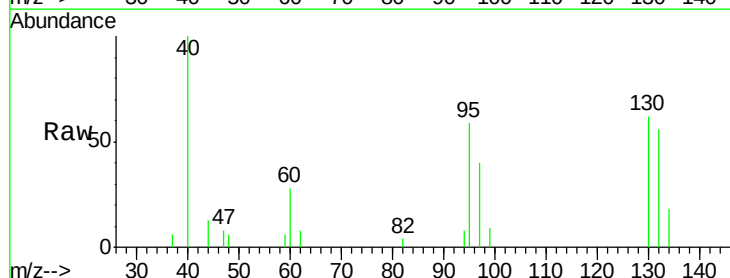
RT: 7.21 min Scan# 994

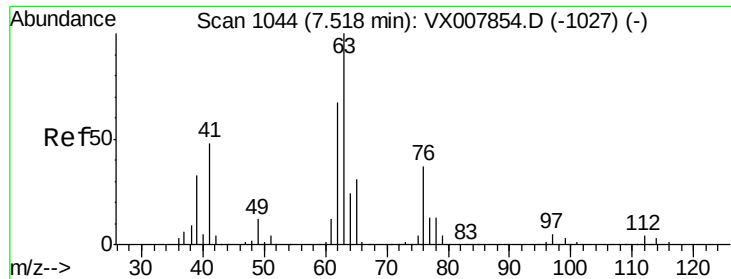
Delta R.T. 0.00 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Tgt Ion:	130	Resp:	1902
Ion	Ratio	Lower	Upper
130	100		
95	94.5	0.0	188.0





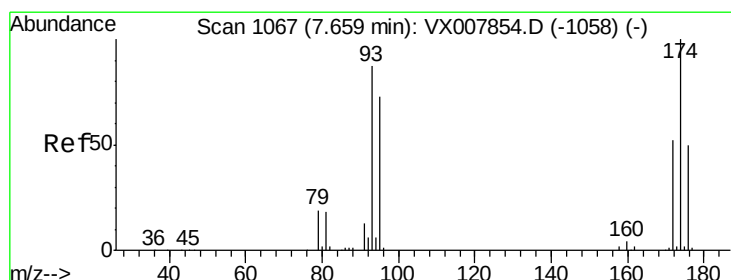
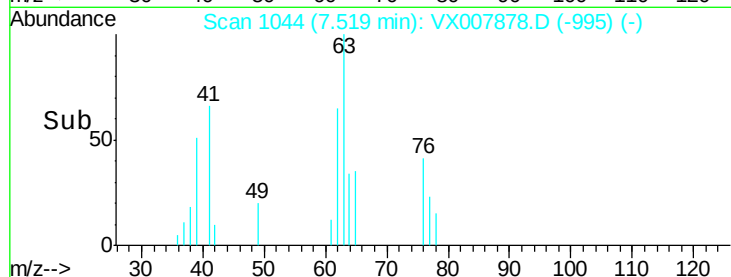
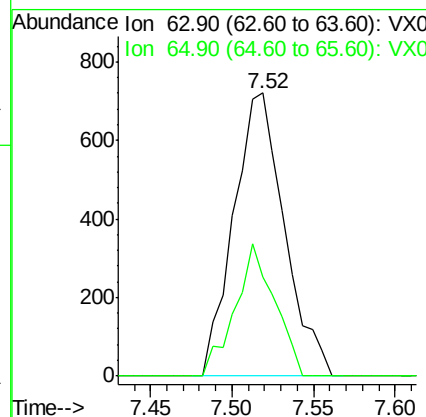
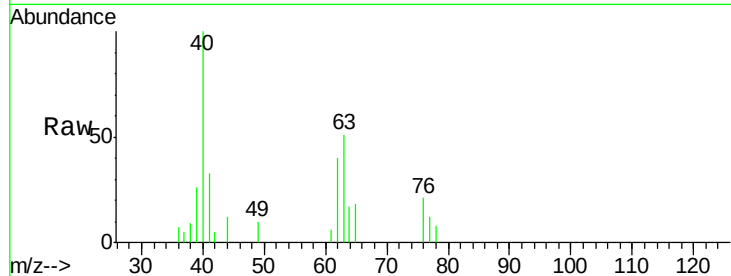
#45
 1,2-Dichloropropane
 Concen: 0.524 ug/l
 RT: 7.52 min Scan# 1044
 Delta R.T. 0.00 min
 Lab File: VX007878.D
 Acq: 07 Mar 2019 12:36

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT1-2019

Tot Ion: 63 Resp: 1562
 Ion Ratio Lower Upper
 63 100
 65 34.8 24.7 37.1

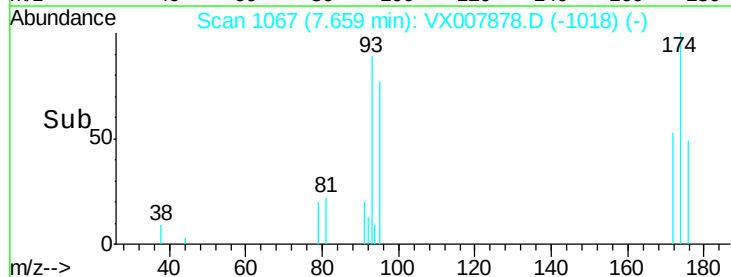
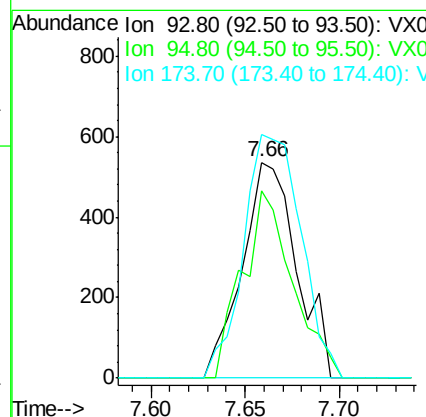
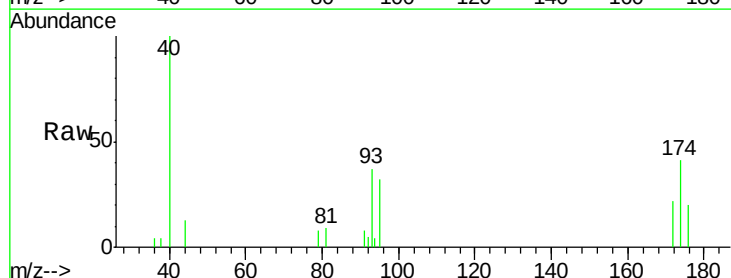
Manual Integrations
 APPROVED

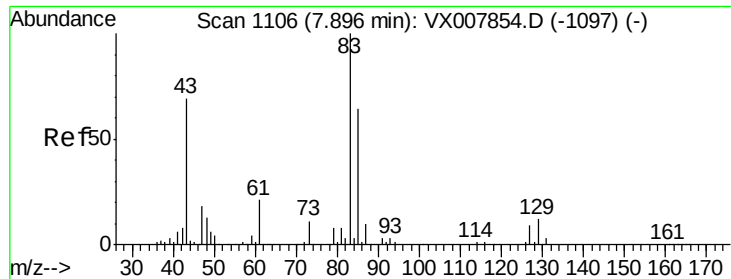
MMDadoda
 3/8/2019 9:40:34 AM



#46
 Dibromomethane
 Concen: 0.570 ug/l
 RT: 7.66 min Scan# 1067
 Delta R.T. 0.00 min
 Lab File: VX007878.D
 Acq: 07 Mar 2019 12:36

Tgt Ion: 93 Resp: 1077
 Ion Ratio Lower Upper
 93 100
 95 80.0 66.8 100.2
 174 119.0 97.3 145.9





#47

Bromodichloromethane

Concen: 0.519 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. 0.00 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Instrument :

MSVOA_X

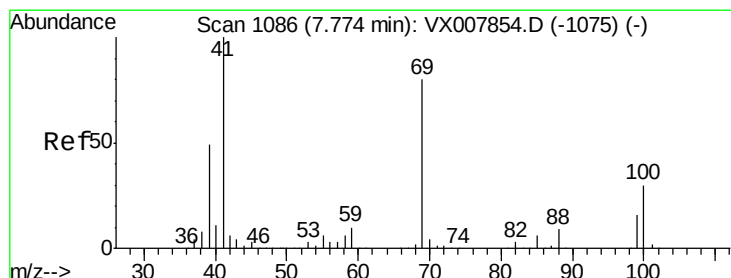
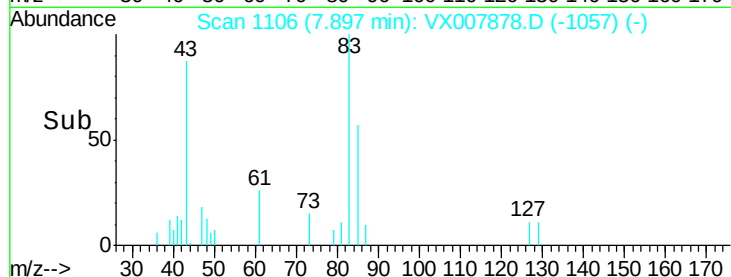
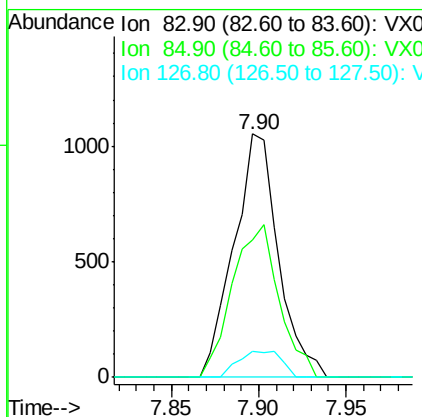
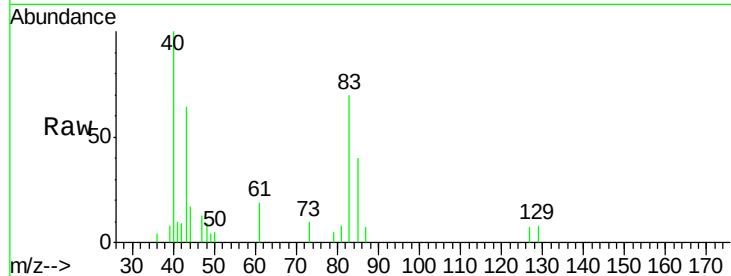
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:	83	Resp:	1859
Ion	Ratio	Lower	Upper
83	100		
85	56.5	50.9	76.3
127	10.5	7.4	11.0

Manual Integrations
APPROVED

MMDadoda
3/8/2019 9:40:34 AM



#48

Methyl methacrylate

Concen: 0.558 ug/l

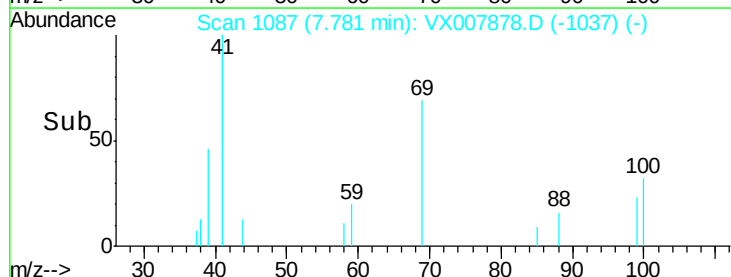
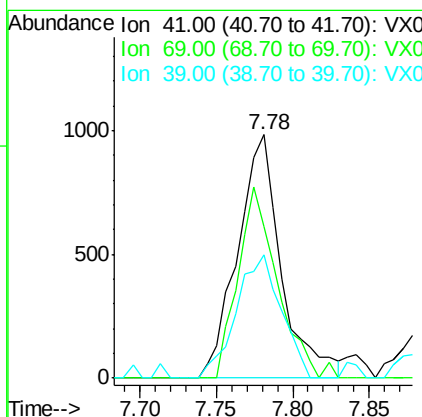
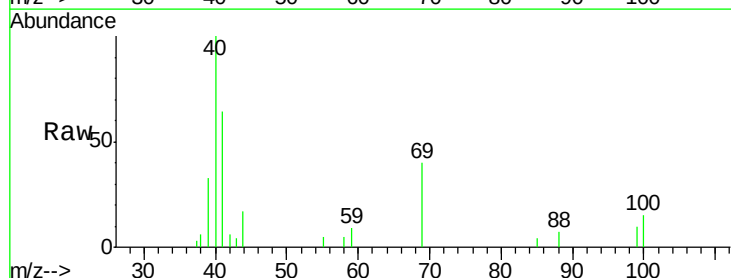
RT: 7.78 min Scan# 1087

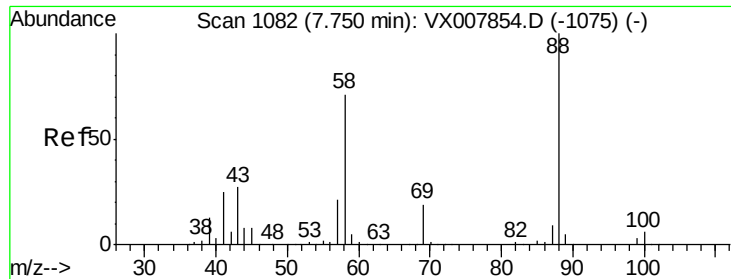
Delta R.T. 0.01 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Tgt Ion:	41	Resp:	1954
Ion	Ratio	Lower	Upper
41	100		
69	70.5	65.2	97.8
39	51.9	39.4	59.2





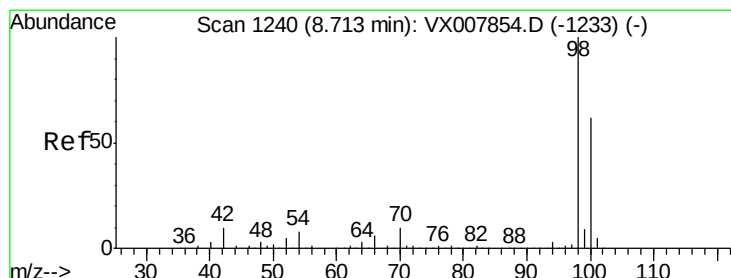
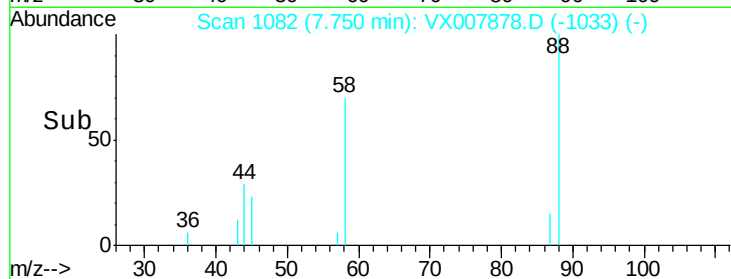
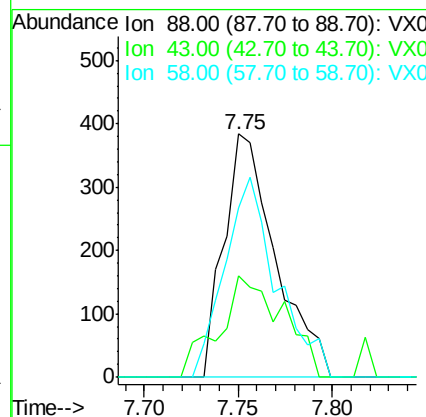
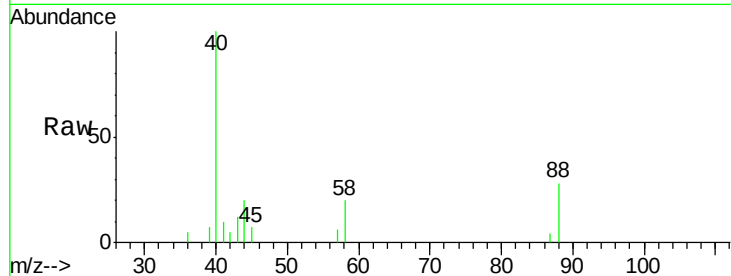
#49
 1,4-Dioxane
 Concen: 10.156 ug/l
 RT: 7.75 min Scan# 1082
 Delta R.T. 0.00 min
 Lab File: VX007878.D
 Acq: 07 Mar 2019 12:36

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
88	100		
43	51.4	25.1	37.7#
58	82.8	57.8	86.6

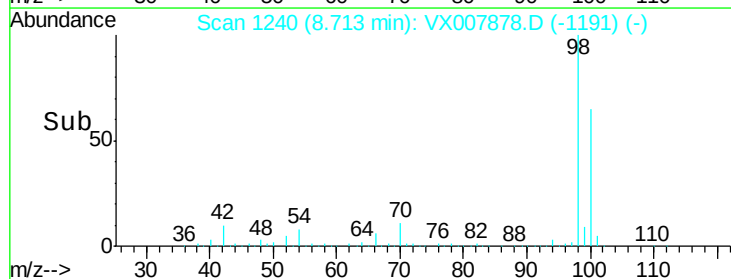
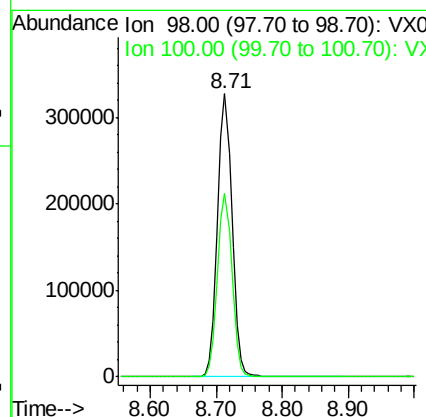
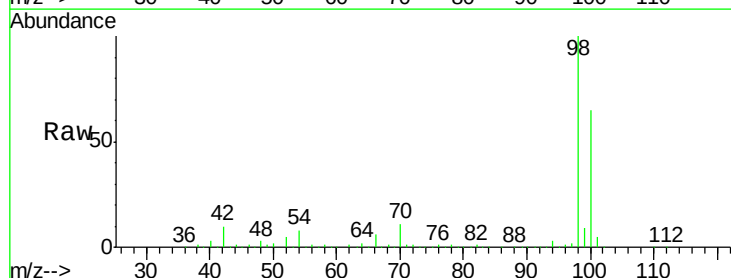
Manual Integrations
 APPROVED

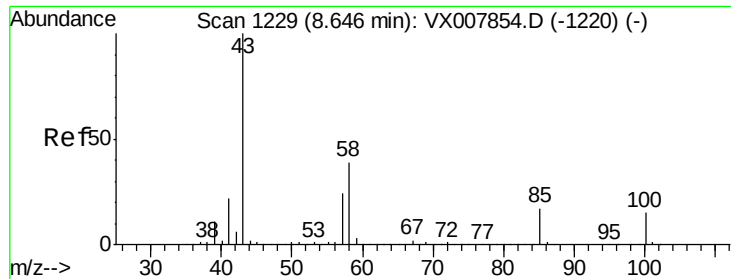
MMDadoda
 3/8/2019 9:40:34 AM



#50
 Toluene-d8
 Concen: 50.544 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. 0.00 min
 Lab File: VX007878.D
 Acq: 07 Mar 2019 12:36

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.7	51.7	77.5





#51

4-Methyl-2-Pentanone

Concen: 2.602 ug/l

RT: 8.65 min Scan# 1229

Delta R.T. 0.00 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion: 43 Resp: 11151

Ion Ratio Lower Upper

43 100

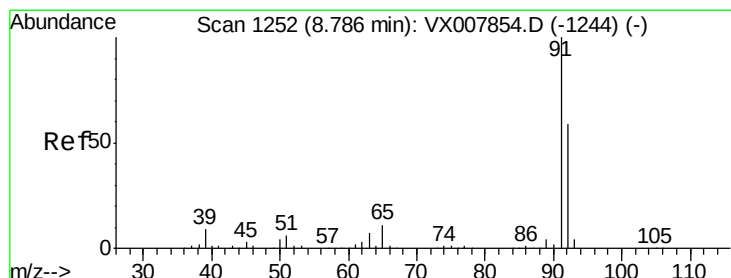
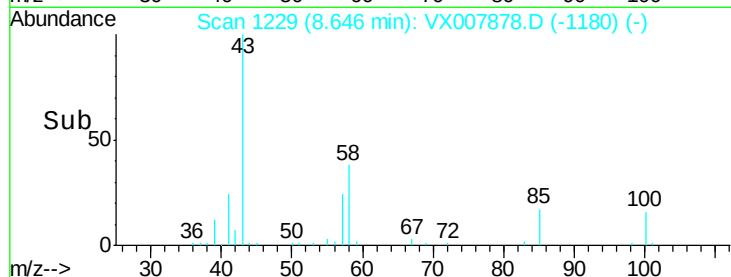
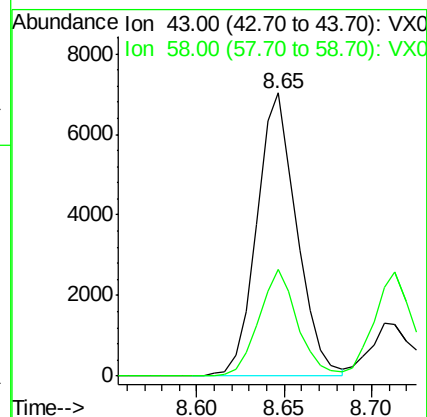
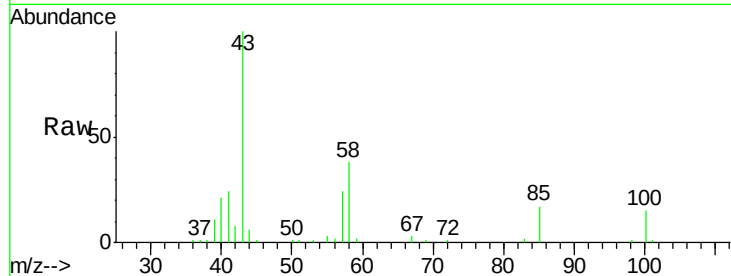
58 36.8 31.3 46.9

Manual Integrations

APPROVED

MMDadoda

3/8/2019 9:40:34 AM



#52

Toluene

Concen: 0.585 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. -0.01 min

Lab File: VX007878.D

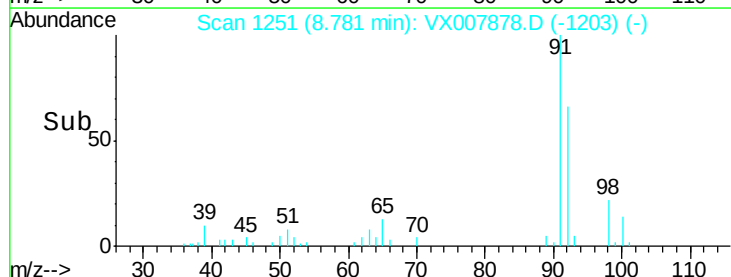
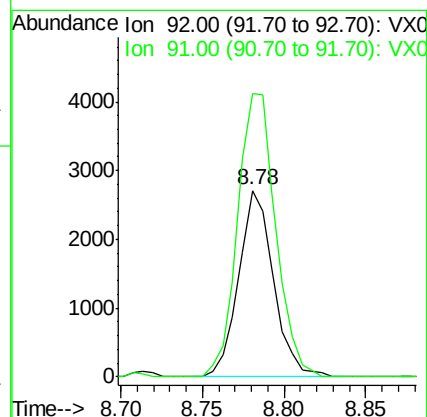
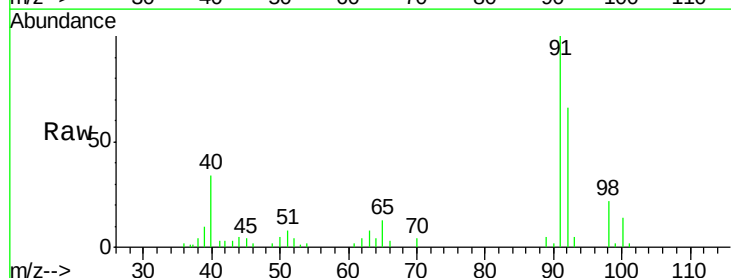
Acq: 07 Mar 2019 12:36

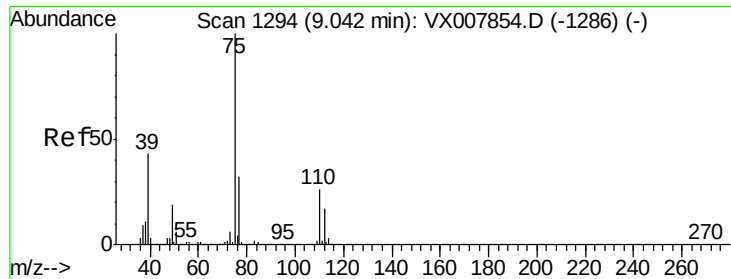
Tgt Ion: 92 Resp: 4032

Ion Ratio Lower Upper

92 100

91 165.6 137.4 206.0





#53

t-1,3-Dichloropropene

Concen: 0.438 ug/l

RT: 9.04 min Scan# 1294

Delta R.T. 0.00 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion: 75 Resp: 1635

Ion Ratio Lower Upper

75 100

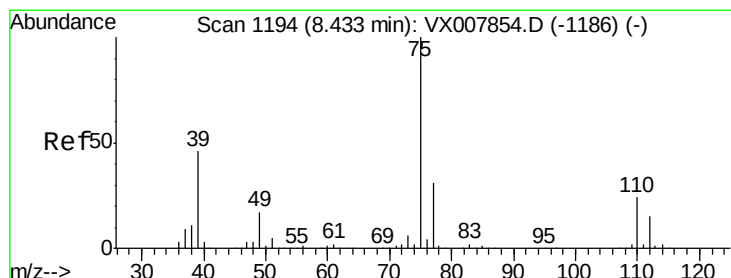
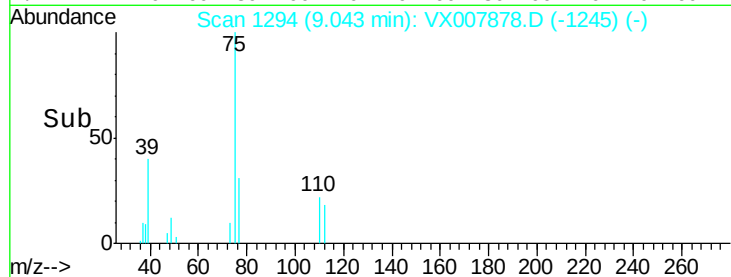
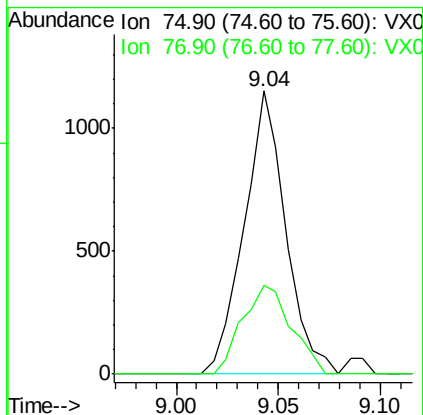
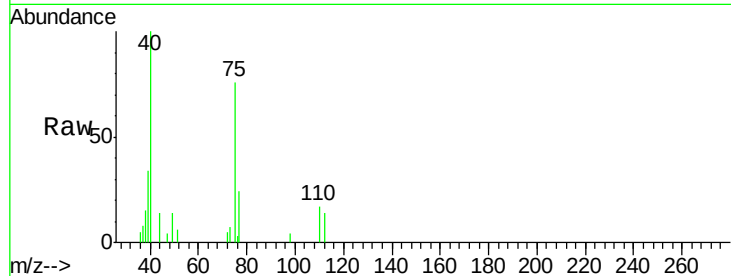
77 31.4 25.4 38.0

Manual Integrations

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MMDadoda

3/8/2019 9:40:34 AM



#54

cis-1,3-Dichloropropene

Concen: 0.471 ug/l

RT: 8.43 min Scan# 1194

Delta R.T. 0.00 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

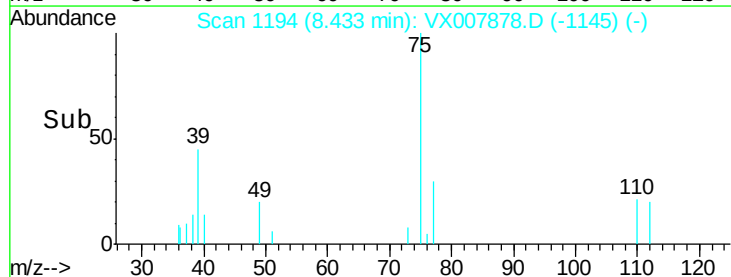
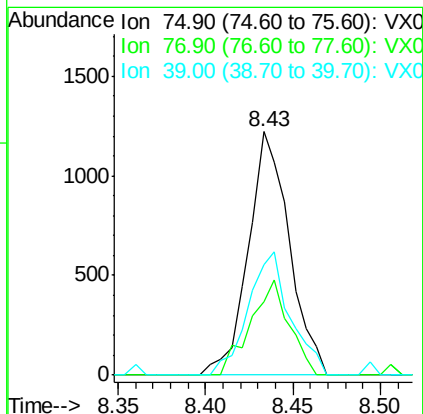
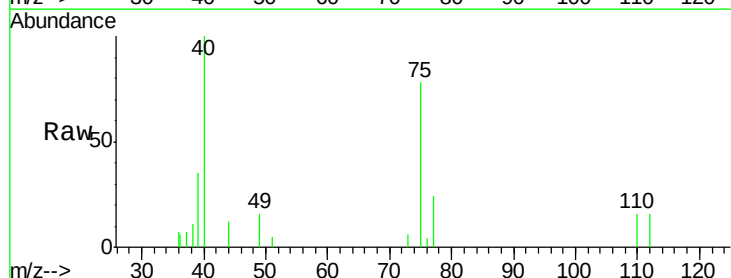
Tgt Ion: 75 Resp: 1987

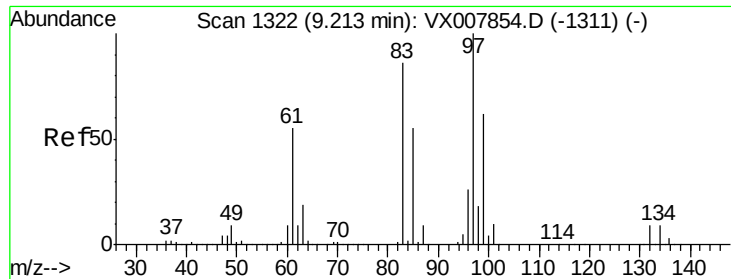
Ion Ratio Lower Upper

75 100

77 30.3 25.0 37.6

39 45.2 36.6 54.8





#55

1,1,2-Trichloroethane

Concen: 0.583 ug/l

RT: 9.21 min Scan# 1322

Delta R.T. 0.00 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Instrument :

MSVOA_X

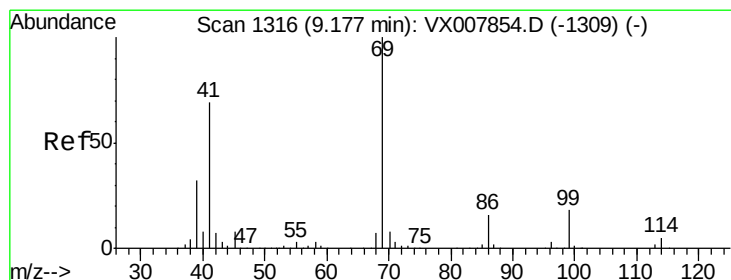
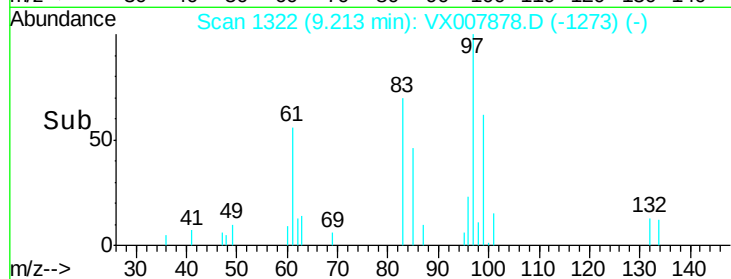
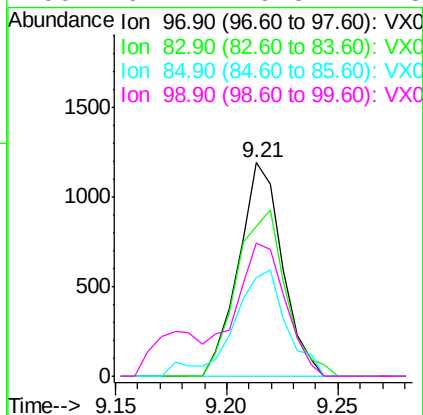
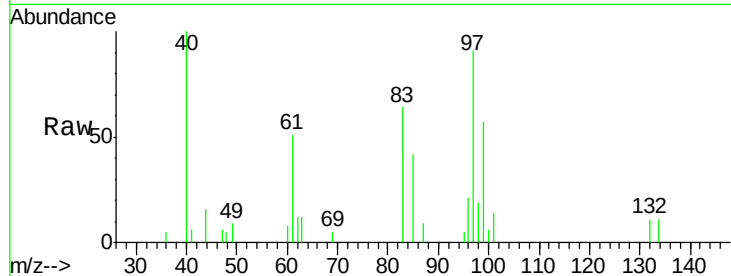
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:	97	Resp:	1629
Ion	Ratio	Lower	Upper
97	100		
83	70.3	69.1	103.7
85	45.9	44.3	66.5
99	62.4	49.8	74.8

Manual Integrations
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MMDadoda
3/8/2019 9:40:34 AM



#56

Ethyl methacrylate

Concen: 0.486 ug/l

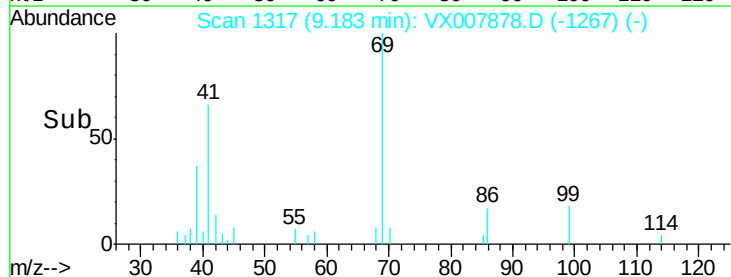
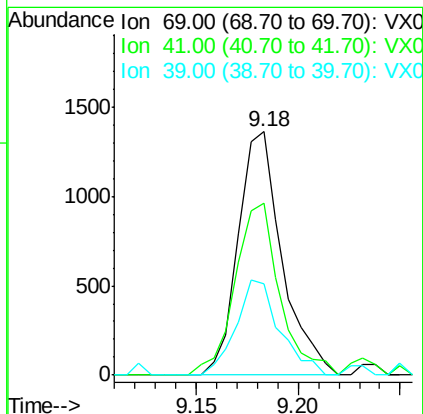
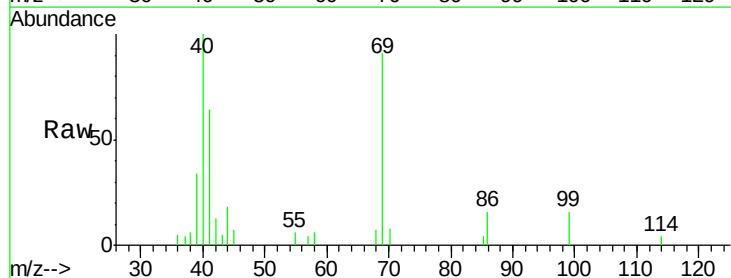
RT: 9.18 min Scan# 1317

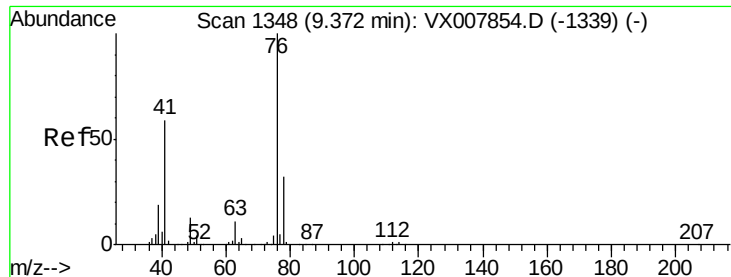
Delta R.T. 0.01 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Tgt Ion:	69	Resp:	2038
Ion	Ratio	Lower	Upper
69	100		
41	72.1	54.2	81.4
39	39.0	25.0	37.4#





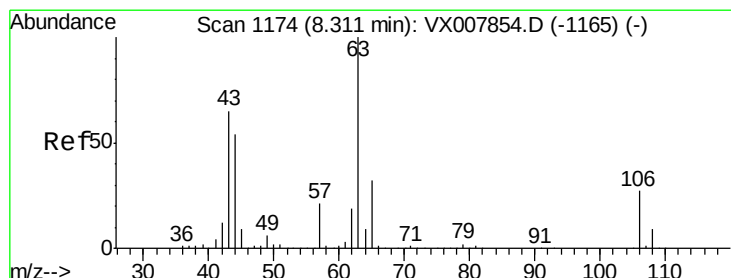
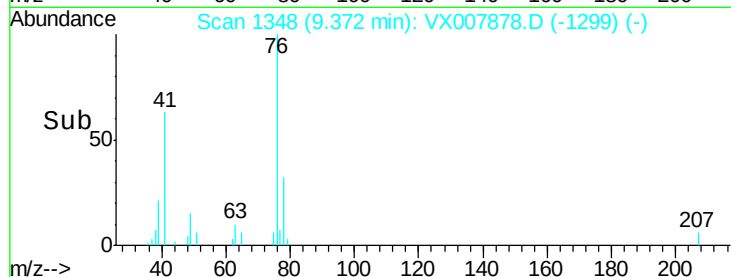
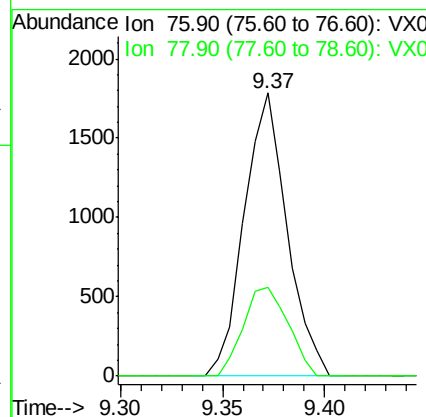
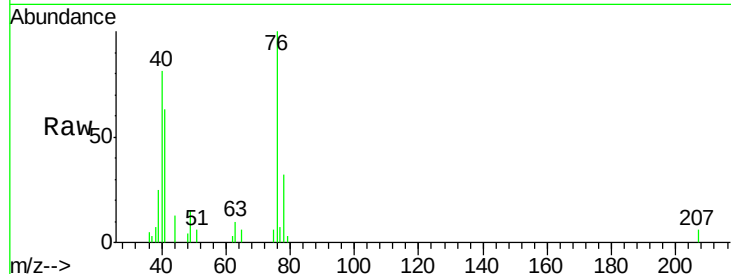
#57
 1,3-Dichloropropane
 Concen: 0.555 ug/l
 RT: 9.37 min Scan# 1348
 Delta R.T. 0.00 min
 Lab File: VX007878.D
 Acq: 07 Mar 2019 12:36

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.7	25.5	38.3

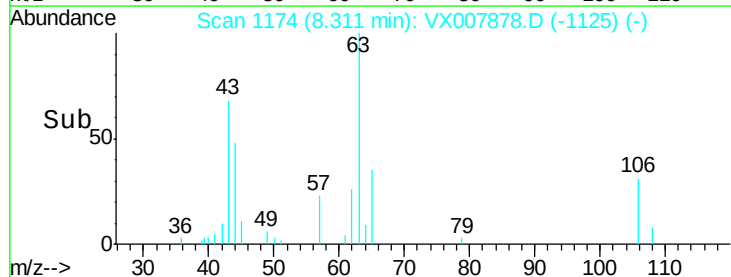
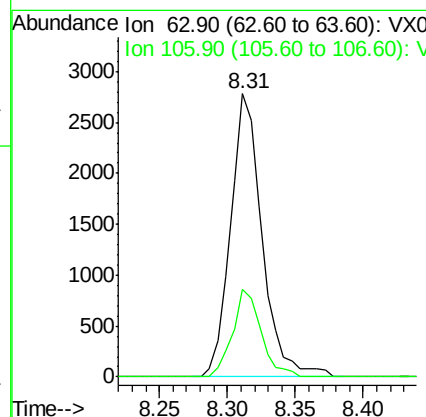
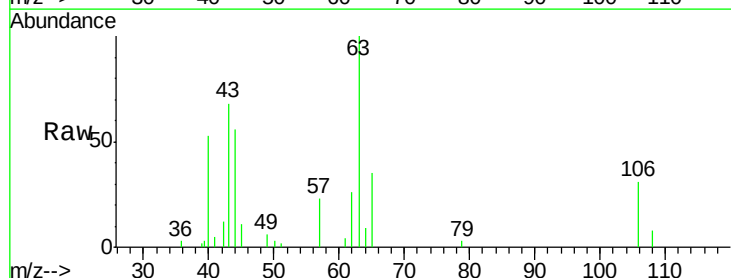
Manual Integrations
 APPROVED

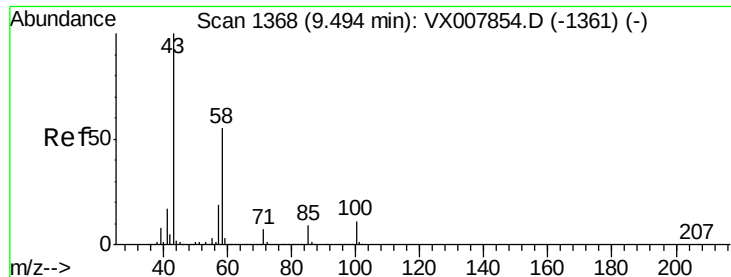
MMDadoda
 3/8/2019 9:40:34 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 2.067 ug/l
 RT: 8.31 min Scan# 1174
 Delta R.T. 0.00 min
 Lab File: VX007878.D
 Acq: 07 Mar 2019 12:36

Tgt Ion	Ratio	Lower	Upper
63	100		
106	27.9	22.2	33.2





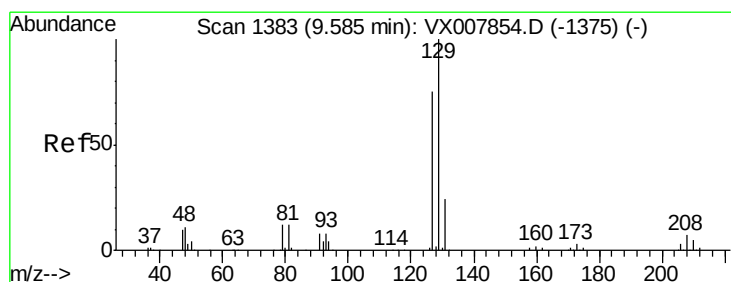
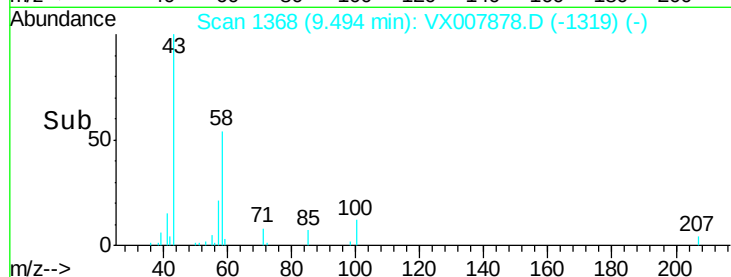
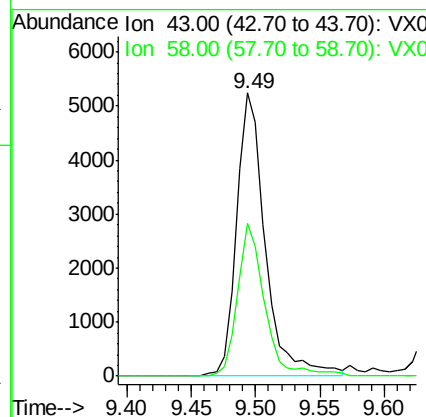
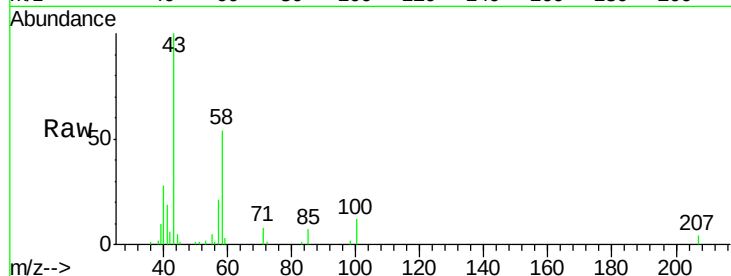
#59
2-Hexanone
Concen: 2.453 ug/l
RT: 9.49 min Scan# 1368
Delta R.T. 0.00 min
Lab File: VX007878.D
Acq: 07 Mar 2019 12:36

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT1-2019

Tot Ion: 43 Resp: 8162
Ion Ratio Lower Upper
43 100
58 51.3 27.6 82.7

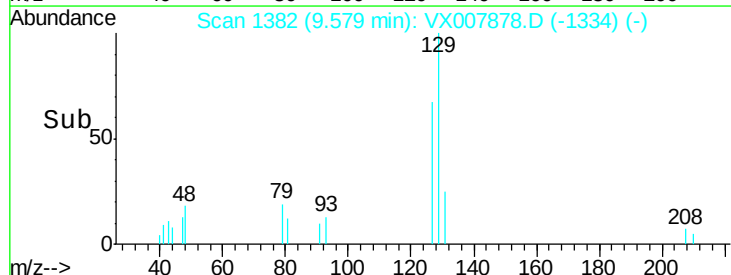
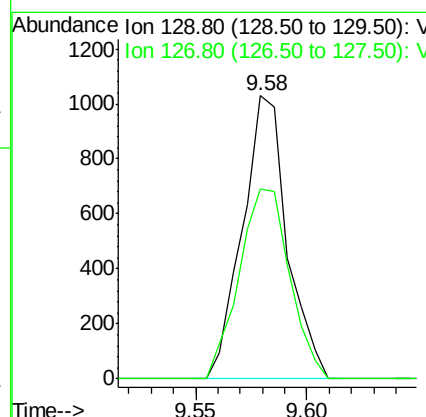
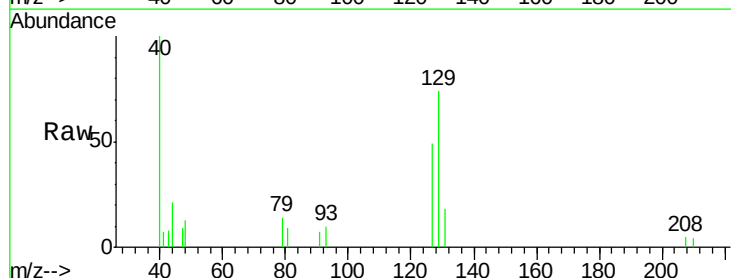
Manual Integrations
APPROVED

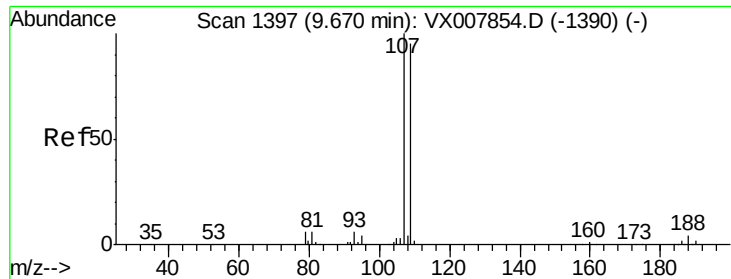
MMDadoda
3/8/2019 9:40:34 AM



#60
Dibromochloromethane
Concen: 0.494 ug/l
RT: 9.58 min Scan# 1382
Delta R.T. -0.01 min
Lab File: VX007878.D
Acq: 07 Mar 2019 12:36

Tgt Ion: 129 Resp: 1443
Ion Ratio Lower Upper
129 100
127 75.8 38.3 114.8





#61

1,2-Dibromoethane

Concen: 0.520 ug/l

RT: 9.67 min Scan# 1397

Delta R.T. 0.00 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:107 Resp: 1540

Ion Ratio Lower Upper

107 100

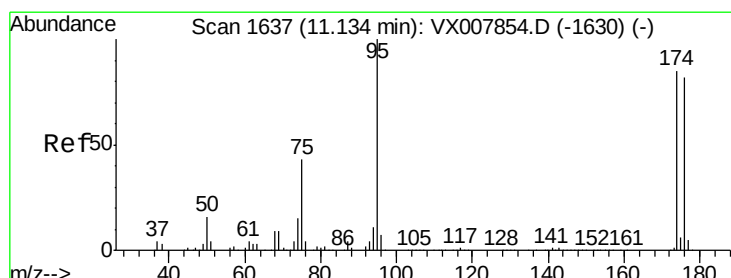
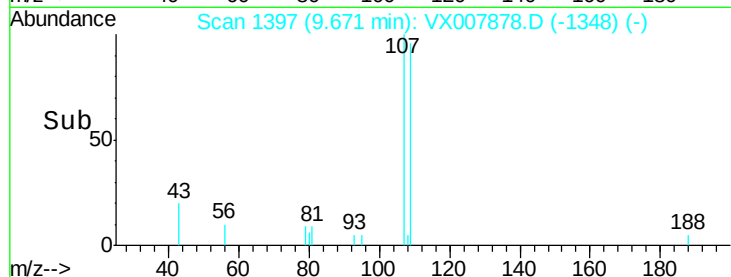
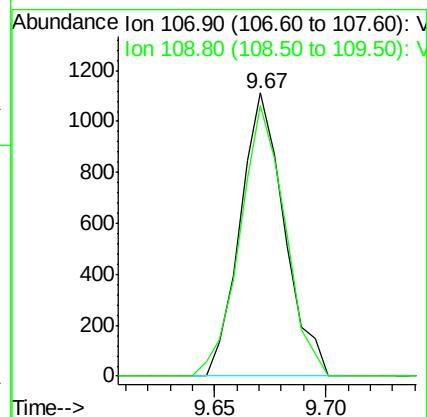
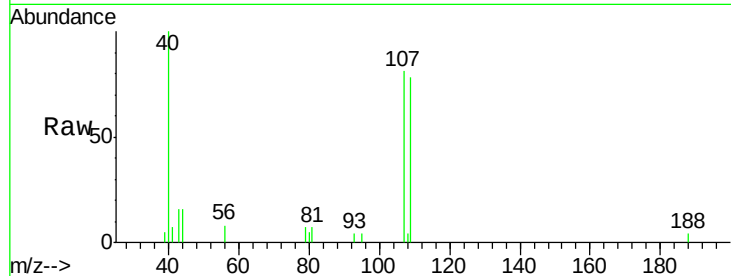
109 97.5 75.8 113.8

Manual Integrations

APPROVED

MMDadoda

3/8/2019 9:40:34 AM



#62

4-Bromofluorobenzene

Concen: 49.223 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

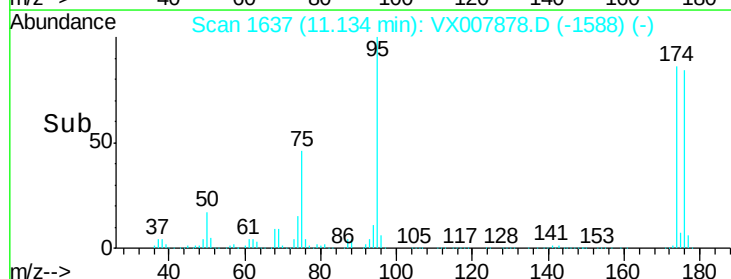
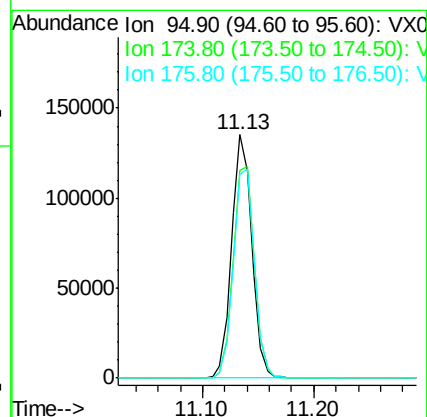
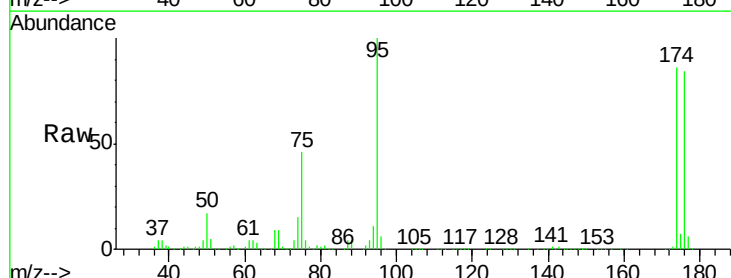
Tgt Ion: 95 Resp: 169900

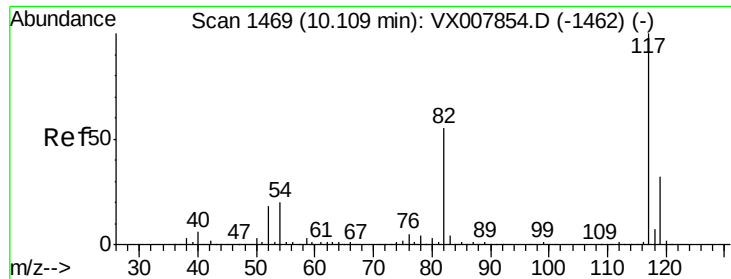
Ion Ratio Lower Upper

95 100

174 91.7 0.0 182.8

176 89.6 0.0 178.0





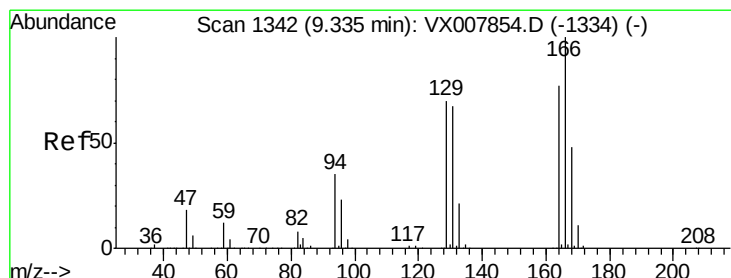
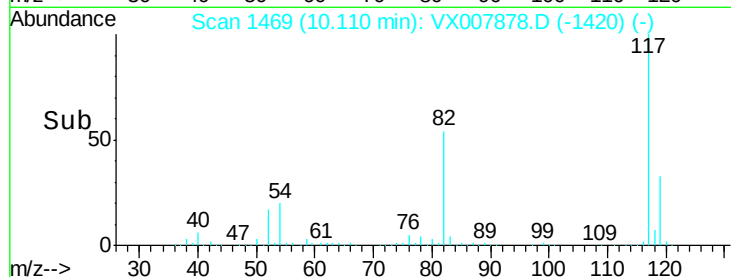
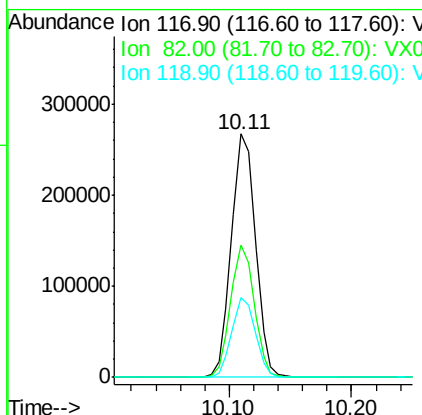
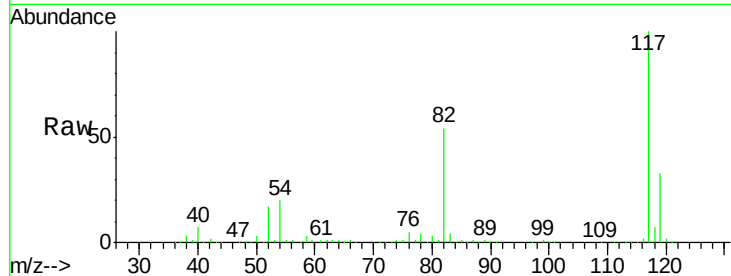
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX007878.D
Acq: 07 Mar 2019 12:36

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT1-2019

Tot Ion	Ratio	Resp	Lower	Upper
117	100	364759		
82	54.4	44.3	66.5	
119	32.7	25.3	37.9	

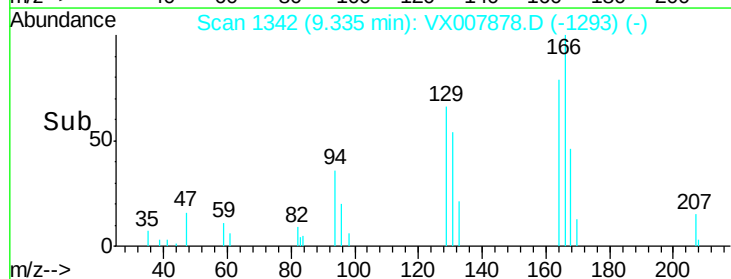
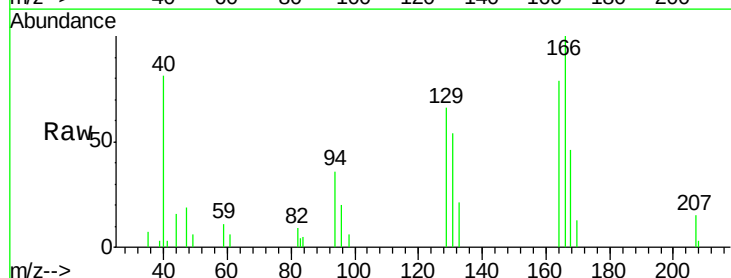
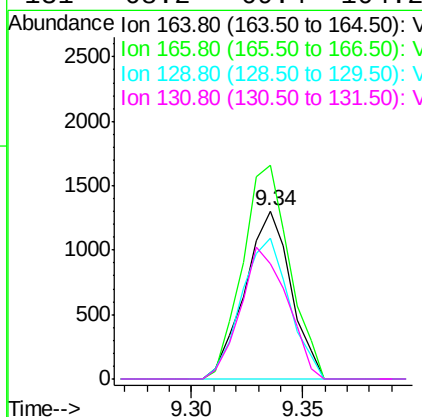
Manual Integrations
APPROVED

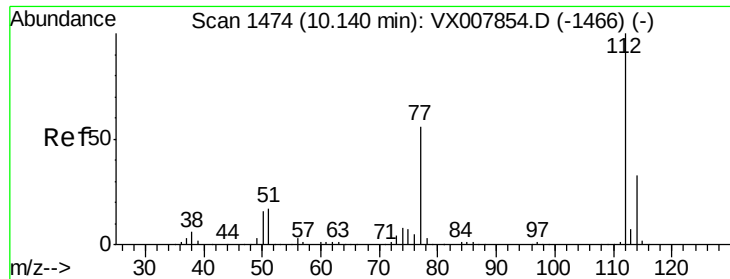
MMDadoda
3/8/2019 9:40:34 AM



#64
Tetrachloroethene
Concen: 0.620 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX007878.D
Acq: 07 Mar 2019 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	1874		
166	127.0	103.4	155.0	
129	83.6	72.2	108.4	
131	68.2	69.4	104.2	





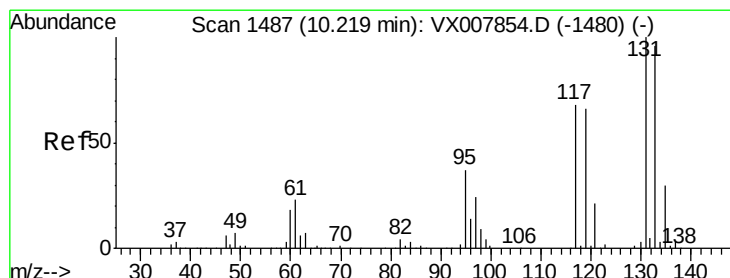
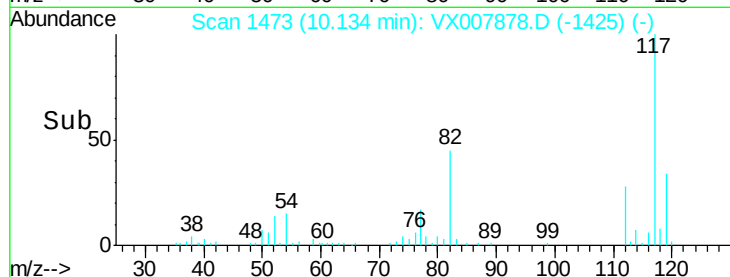
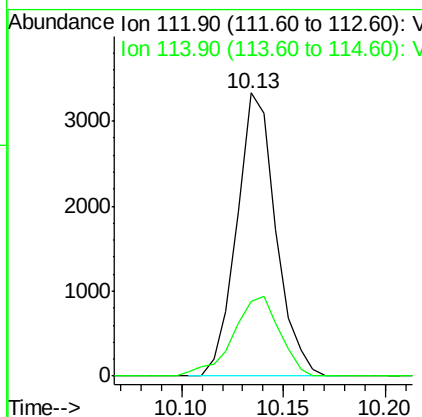
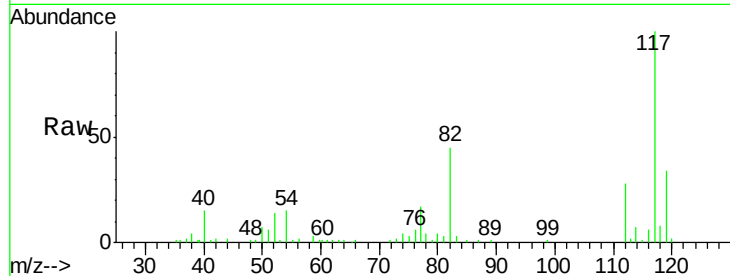
#65
Chlorobenzene
Concen: 0.579 ug/l
RT: 10.13 min Scan# 1473
Delta R.T. -0.01 min
Lab File: VX007878.D
Acq: 07 Mar 2019 12:36

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT1-2019

Tot Ion:112 Resp: 4423
Ion Ratio Lower Upper
112 100
114 26.4 26.0 39.0

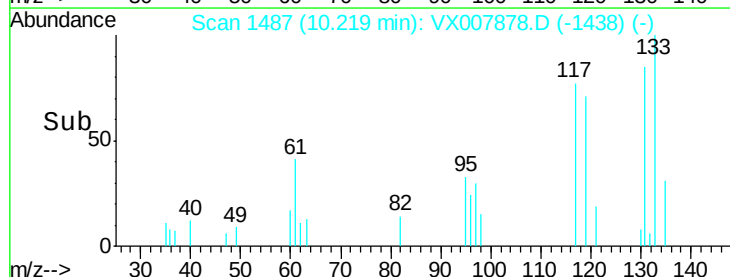
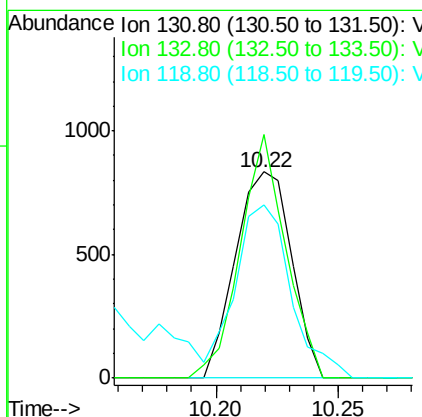
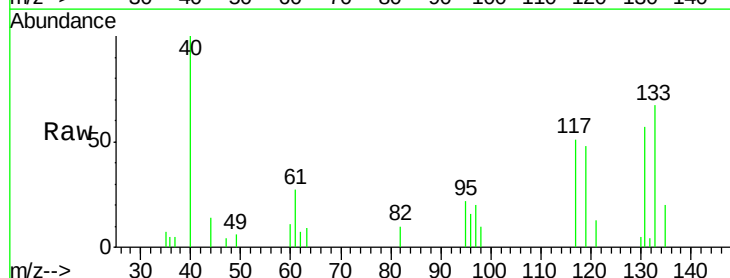
Manual Integrations
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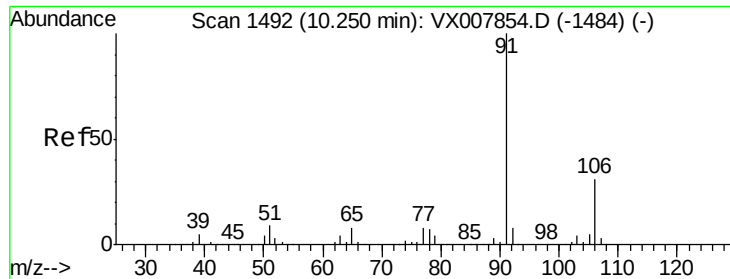
MMDadoda
3/8/2019 9:40:34 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 0.485 ug/l
RT: 10.22 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VX007878.D
Acq: 07 Mar 2019 12:36

Tgt Ion:131 Resp: 1328
Ion Ratio Lower Upper
131 100
133 96.0 47.8 143.3
119 0.0 32.5 97.5#





#67

Ethyl Benzene

Concen: 0.544 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion: 91 Resp: 6836

Ion Ratio Lower Upper

91 100

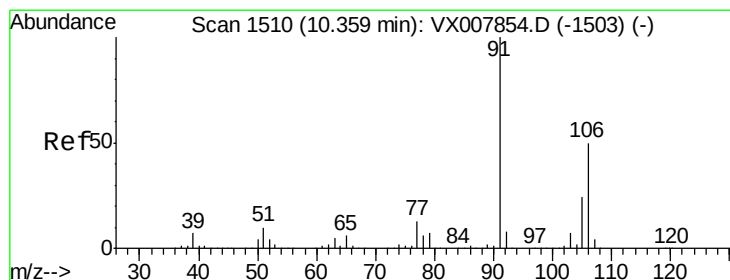
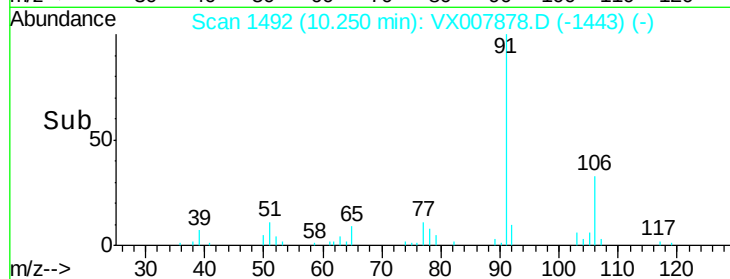
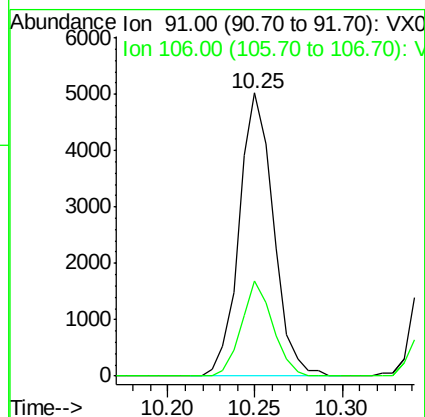
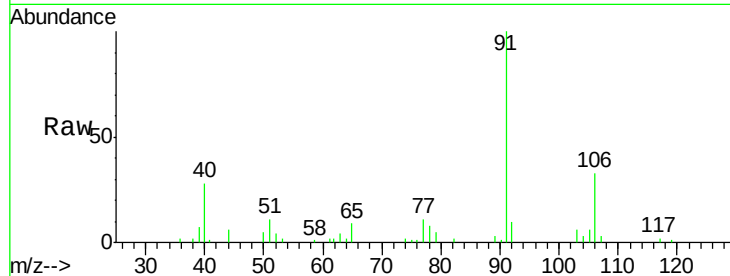
106 33.5 25.2 37.8

Manual Integrations

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MMDadoda

3/8/2019 9:40:34 AM



#68

m/p-Xylenes

Concen: 1.038 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX007878.D

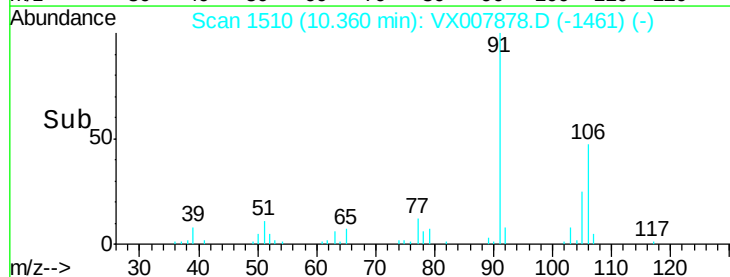
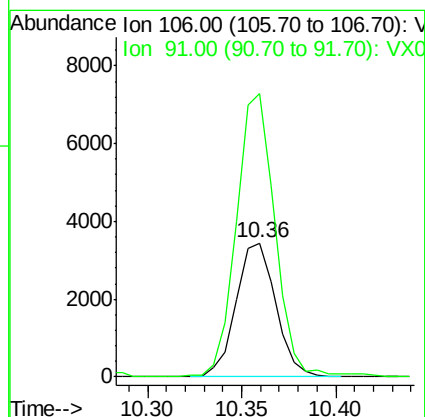
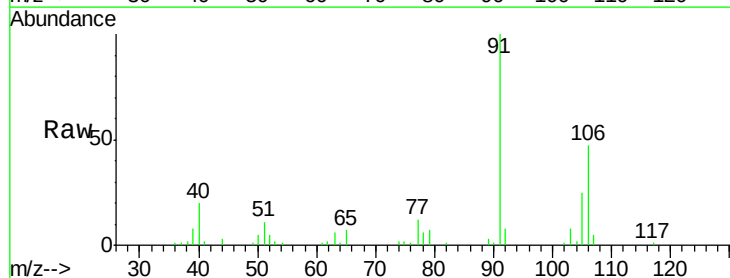
Acq: 07 Mar 2019 12:36

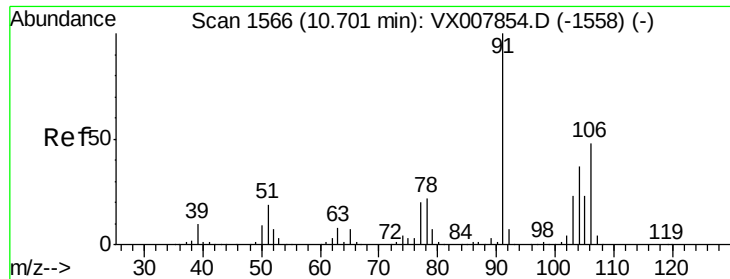
Tgt Ion: 106 Resp: 5027

Ion Ratio Lower Upper

106 100

91 206.9 159.8 239.6





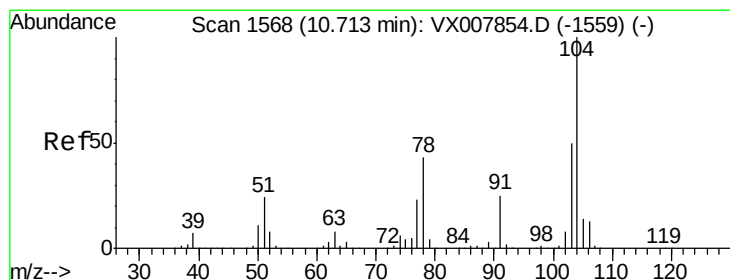
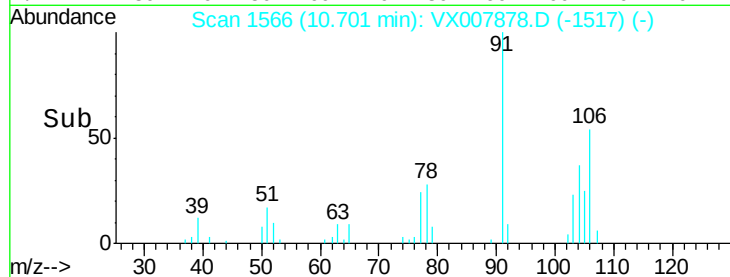
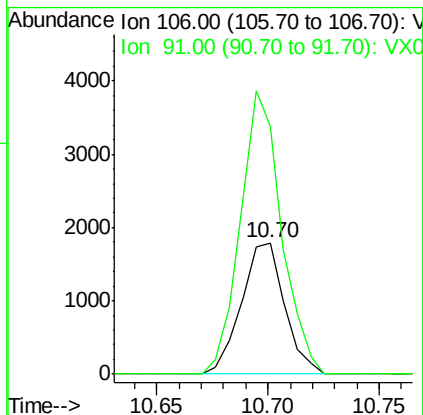
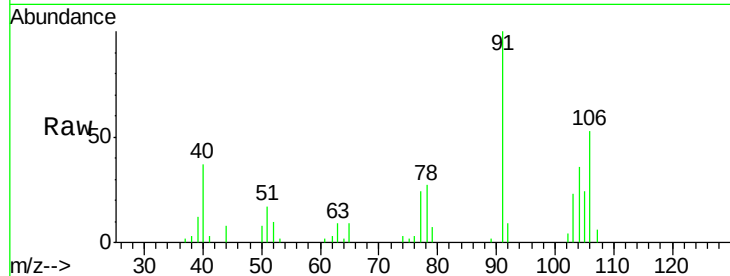
#69
o-Xylene
Concen: 0.517 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. 0.00 min
Lab File: VX007878.D
Acq: 07 Mar 2019 12:36

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT1-2019

Tot Ion:106 Resp: 2419
Ion Ratio Lower Upper
106 100
91 205.4 106.3 318.9

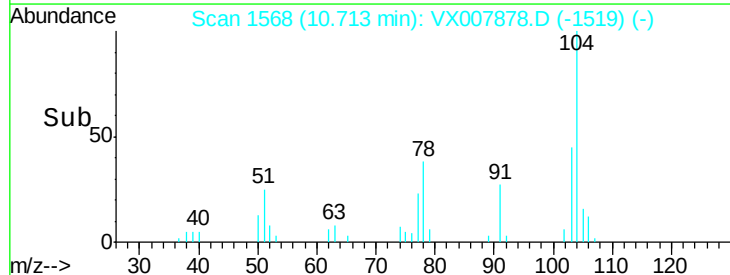
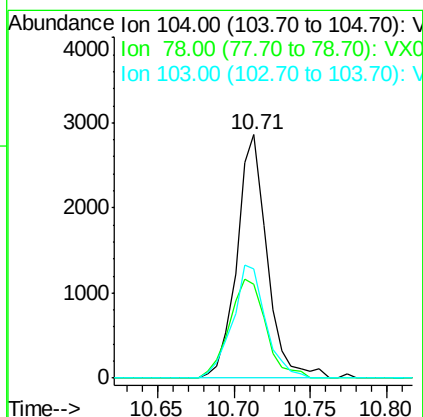
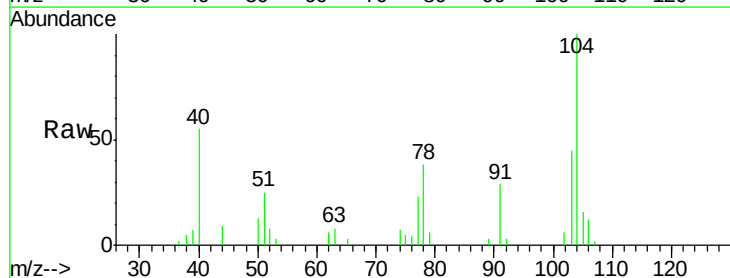
Manual Integrations
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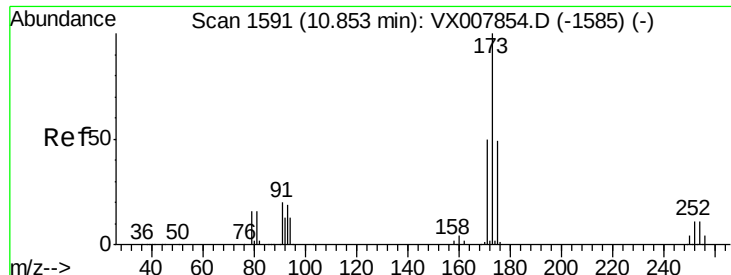
MMDadoda
3/8/2019 9:40:34 AM



#70
Styrene
Concen: 0.511 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VX007878.D
Acq: 07 Mar 2019 12:36

Tgt Ion:104 Resp: 3913
Ion Ratio Lower Upper
104 100
78 48.9 38.5 57.7
103 51.3 44.1 66.1





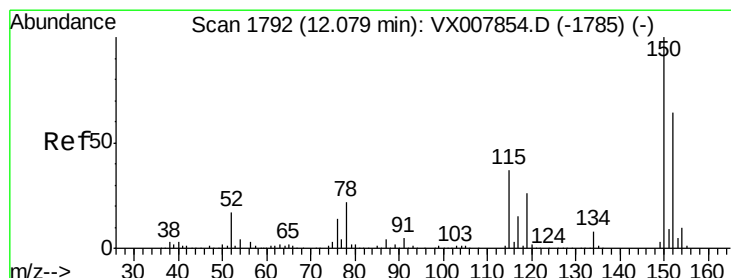
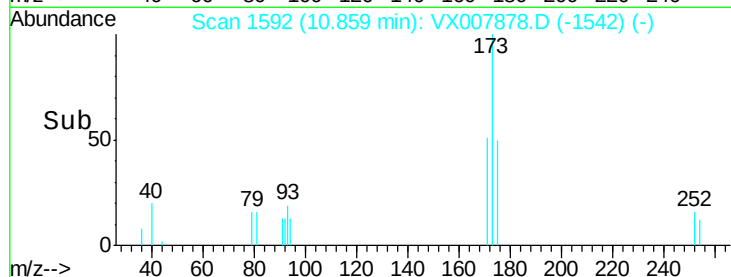
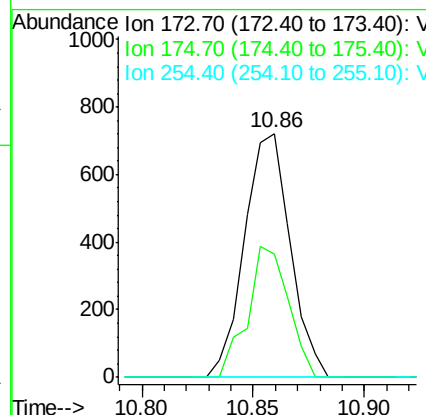
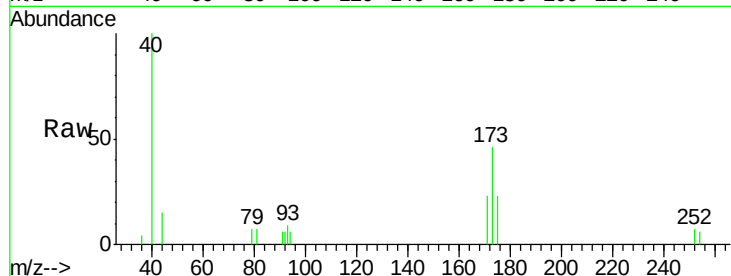
#71
Bromoform
Concen: 0.439 ug/l
RT: 10.86 min Scan# 1592
Delta R.T. 0.01 min
Lab File: VX007878.D
Acq: 07 Mar 2019 12:36

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.7	24.3	72.9
254	0.0	0.1	0.1#

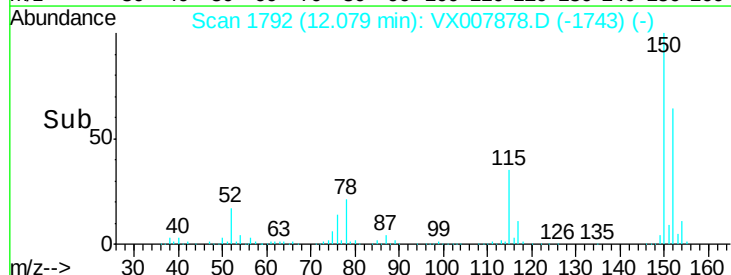
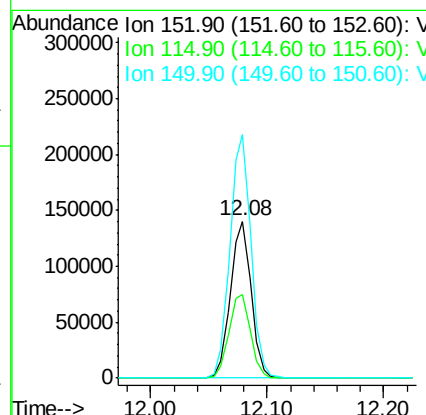
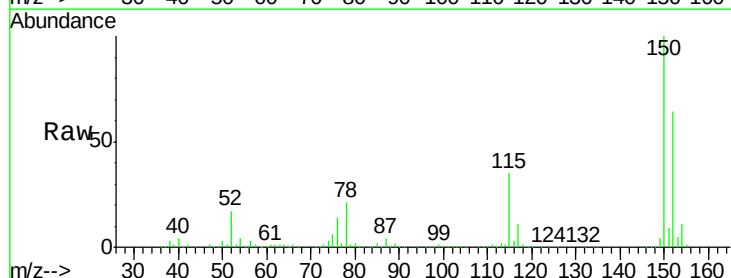
Manual Integrations
APPROVED

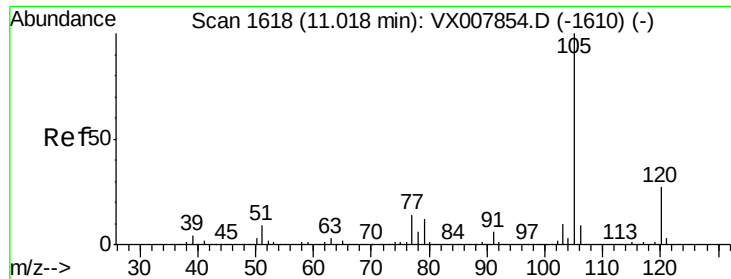
MMDadoda
3/8/2019 9:40:34 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX007878.D
Acq: 07 Mar 2019 12:36

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.5	38.6	115.7
150	156.6	0.0	348.4





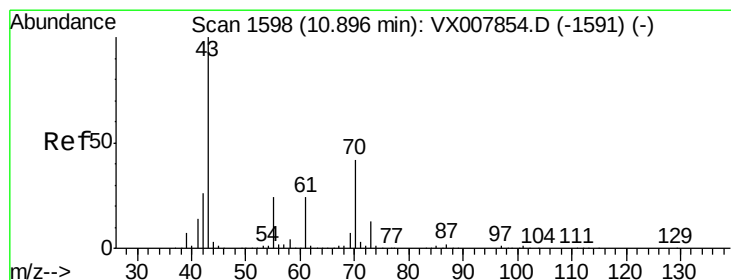
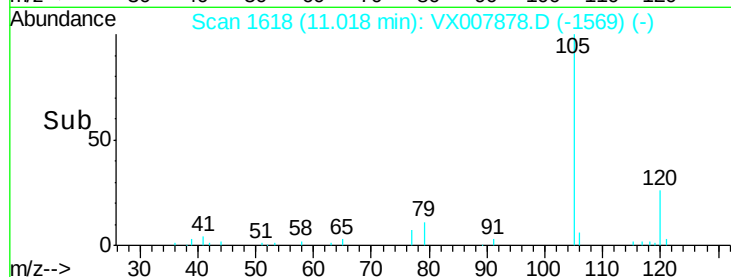
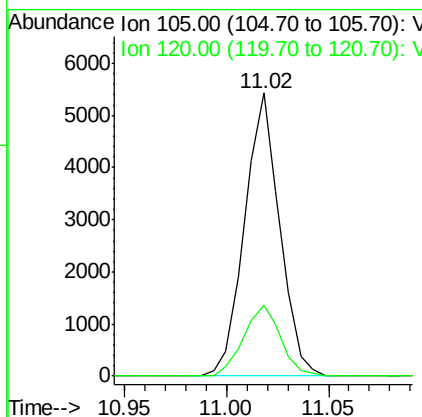
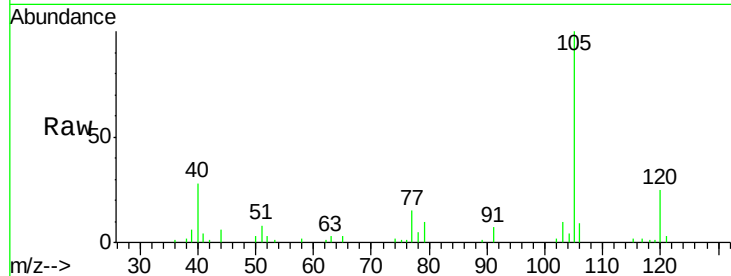
#73
Isopropylbenzene
Concen: 0.554 ug/l
RT: 11.02 min Scan# 1618
Delta R.T. 0.00 min
Lab File: VX007878.D
Acq: 07 Mar 2019 12:36

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT1-2019

Tot Ion: 105 Resp: 6474
Ion Ratio Lower Upper
105 100
120 26.3 13.4 40.1

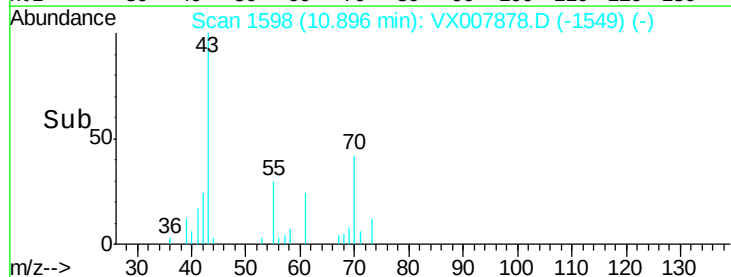
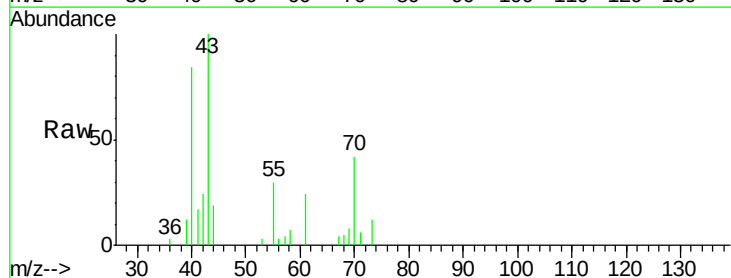
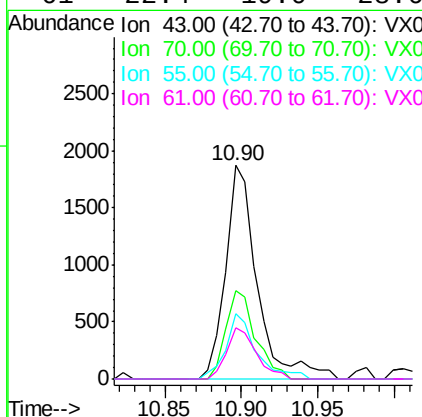
Manual Integrations
APPROVED

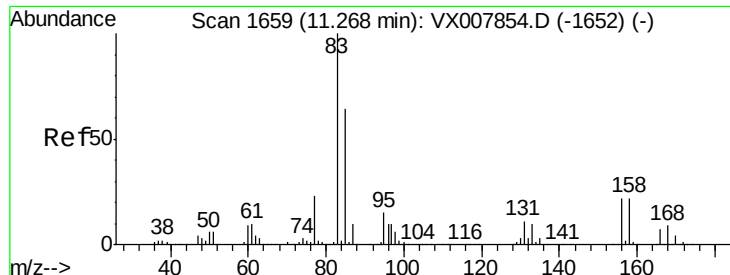
MMDadoda
3/8/2019 9:40:34 AM



#74
N-ethyl acetate
Concen: 0.503 ug/l
RT: 10.90 min Scan# 1598
Delta R.T. 0.00 min
Lab File: VX007878.D
Acq: 07 Mar 2019 12:36

Tgt Ion: 43 Resp: 2684
Ion Ratio Lower Upper
43 100
70 38.9 33.5 50.3
55 29.5 19.2 28.8#
61 22.4 19.0 28.6





#75

1,1,2,2-Tetrachloroethane

Concen: 0.591 ug/l

RT: 11.27 min Scan# 1659

Delta R.T. 0.00 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Instrument :

MSVOA_X

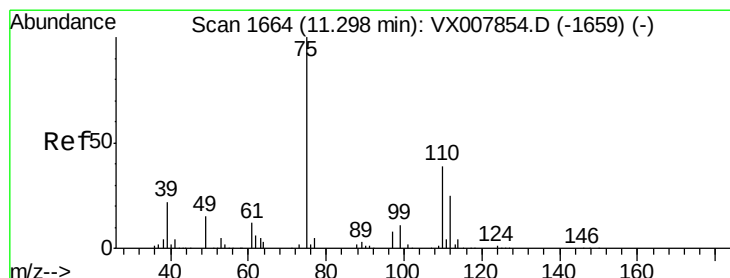
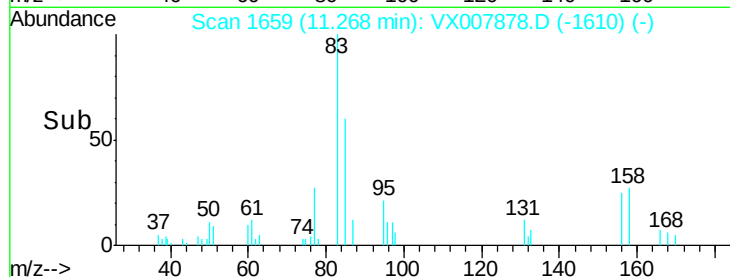
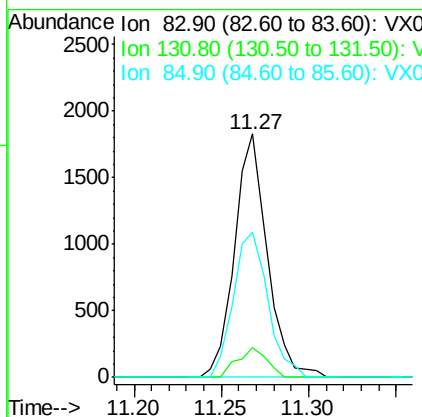
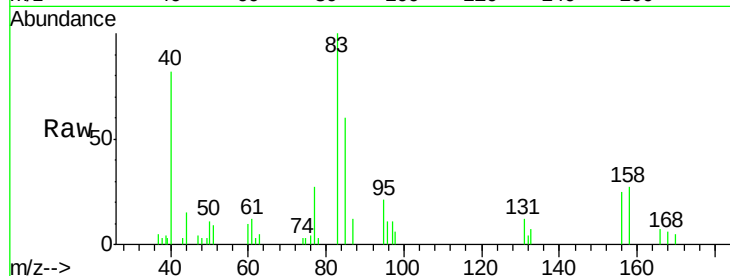
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:	83	Resp:	2381
Ion	Ratio	Lower	Upper
83	100		
131	10.9	5.4	16.2
85	62.6	32.3	96.8

Manual Integrations
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MMDadoda
3/8/2019 9:40:34 AM



#76

1,2,3-Trichloropropane

Concen: 0.535 ug/l m

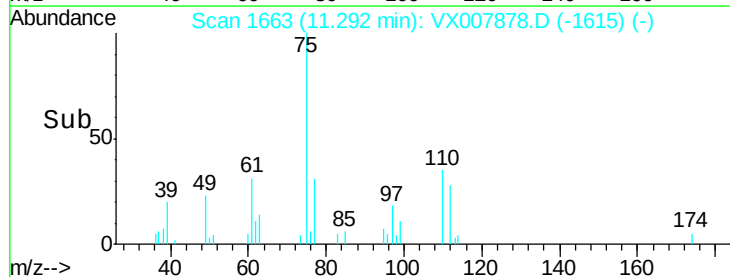
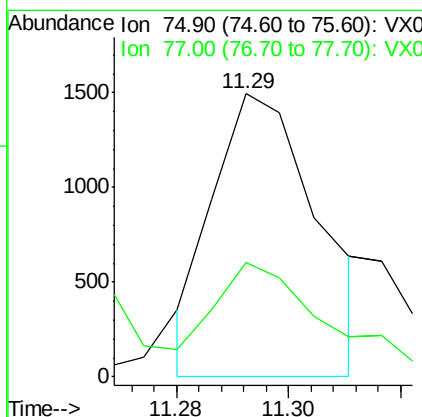
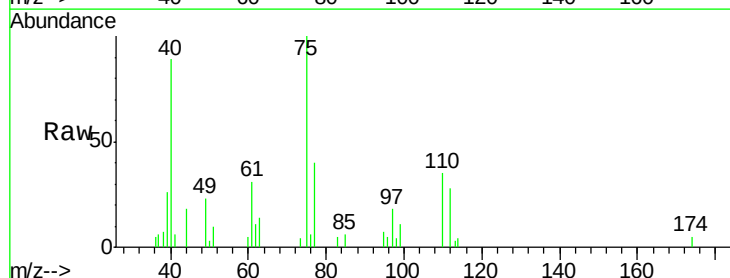
RT: 11.29 min Scan# 1663

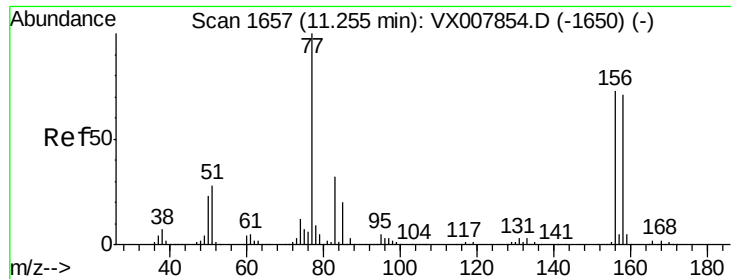
Delta R.T. -0.01 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Tgt Ion:	75	Resp:	1937
Ion	Ratio	Lower	Upper
75	100		
77	52.3	18.9	56.7





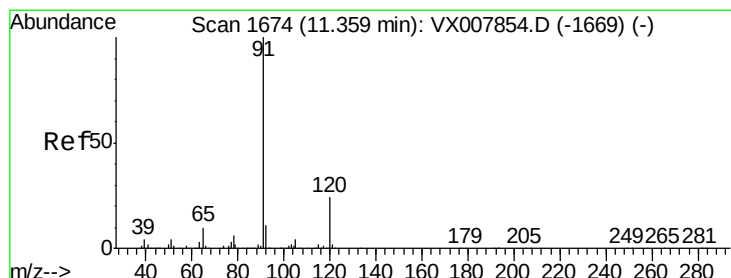
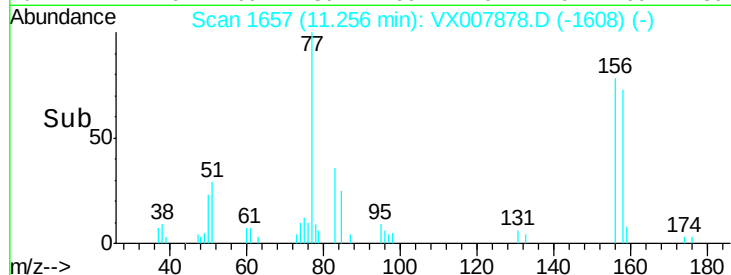
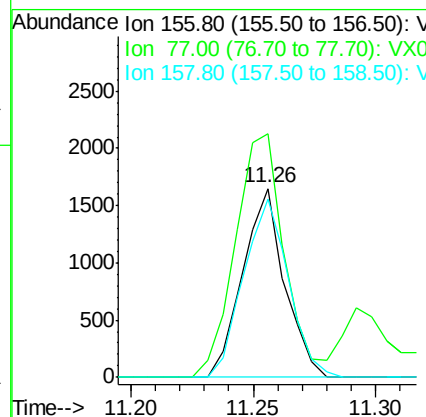
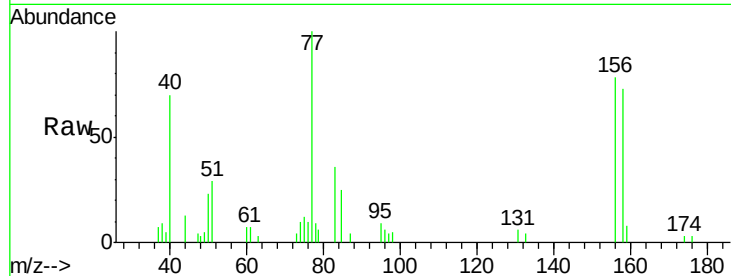
#77
Bromobenzene
Concen: 0.612 ug/l
RT: 11.26 min Scan# 1657
Delta R.T. 0.00 min
Lab File: VX007878.D
Acq: 07 Mar 2019 12:36

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
156	100		
77	151.7	72.0	215.9
158	101.7	48.6	145.9

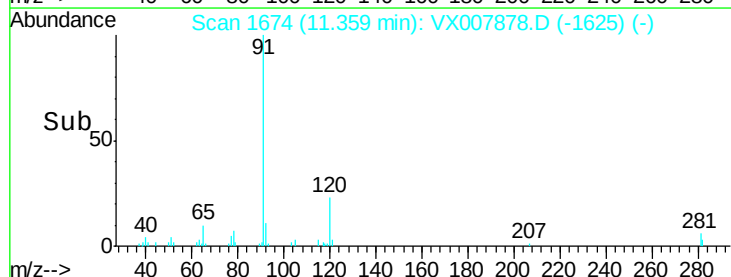
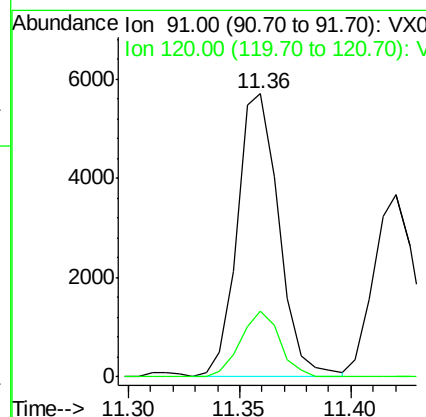
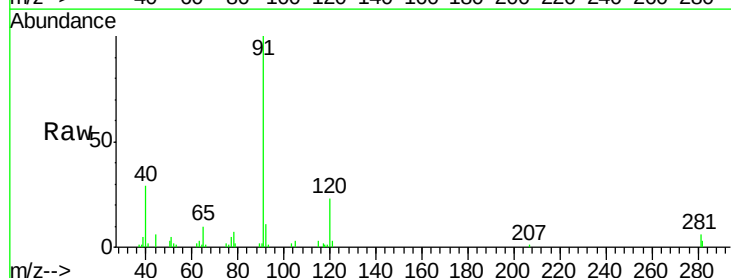
Manual Integrations
APPROVED

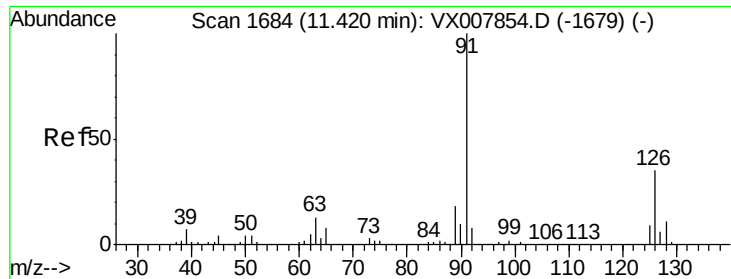
MMDadoda
3/8/2019 9:40:34 AM



#78
n-propylbenzene
Concen: 0.574 ug/l
RT: 11.36 min Scan# 1674
Delta R.T. 0.00 min
Lab File: VX007878.D
Acq: 07 Mar 2019 12:36

Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.7	12.0	36.0





#79

2-Chlorotoluene

Concen: 0.603 ug/l

RT: 11.42 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion: 91 Resp: 4775

Ion Ratio Lower Upper

91 100

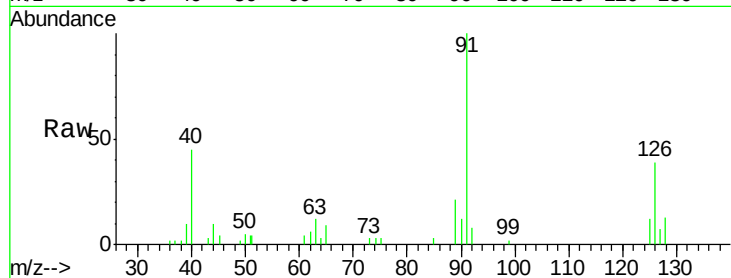
126 37.6 17.5 52.6

Manual Integrations

APPROVED

MMDadoda

3/8/2019 9:40:34 AM



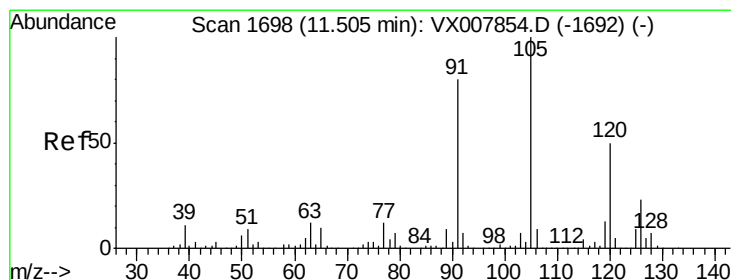
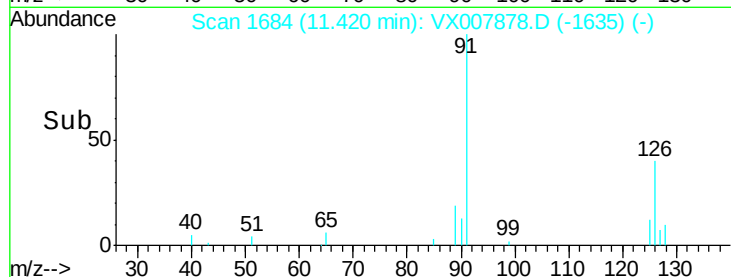
Abundance Ion 91.00 (90.70 to 91.70): VX007854.D (-1679) (-)

Ion 125.90 (125.60 to 126.60): VX007854.D (-1679) (-)

11.42

11.45

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.540 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX007878.D

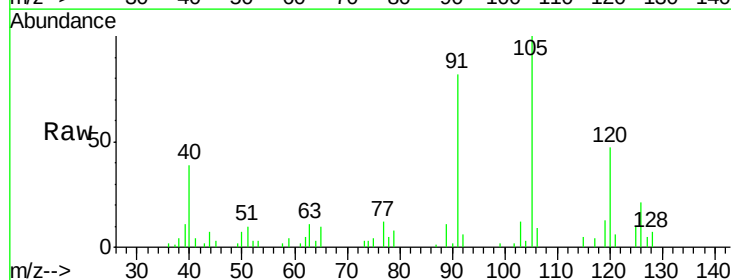
Acq: 07 Mar 2019 12:36

Tgt Ion: 105 Resp: 5189

Ion Ratio Lower Upper

105 100

120 48.4 24.9 74.6



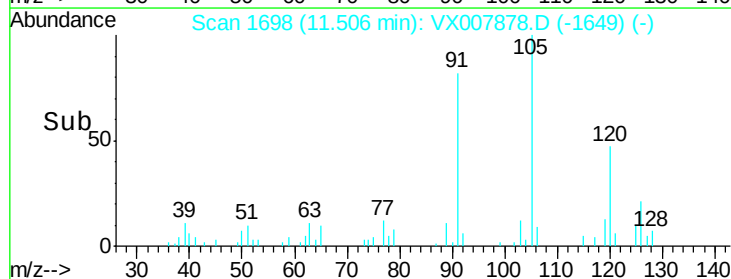
Abundance Ion 105.00 (104.70 to 105.70): VX007854.D (-1692) (-)

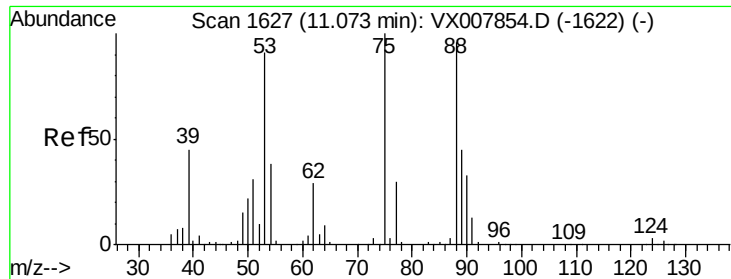
Ion 120.00 (119.70 to 120.70): VX007854.D (-1692) (-)

11.51

11.55

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 0.441 ug/l m

RT: 11.07 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Instrument :

MSVOA_X

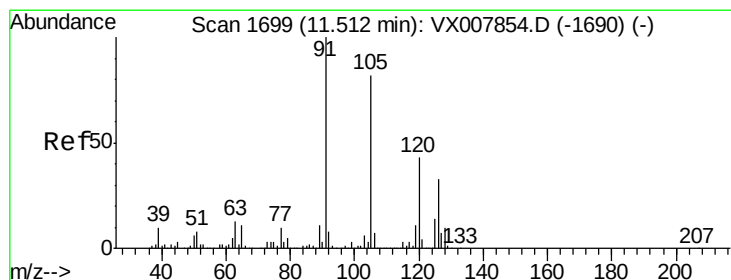
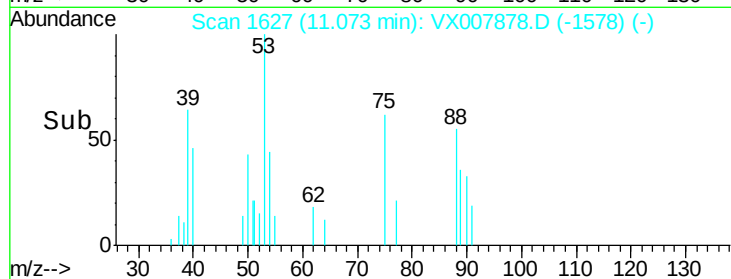
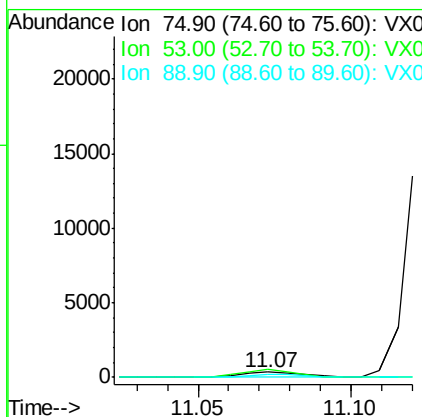
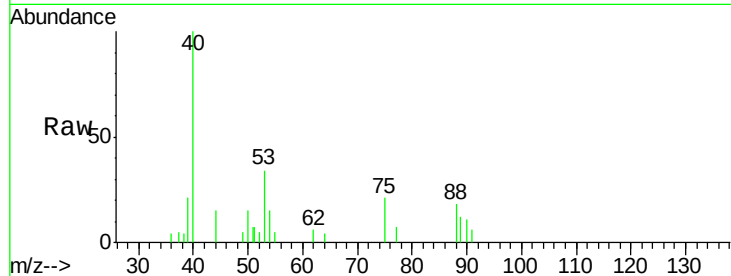
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
75	100		
53	19.4	76.1	114.1#
89	5.2	36.3	54.5#

Manual Integrations
APPROVED

MMDadoda
3/8/2019 9:40:34 AM



#82

4-Chlorotoluene

Concen: 0.565 ug/l

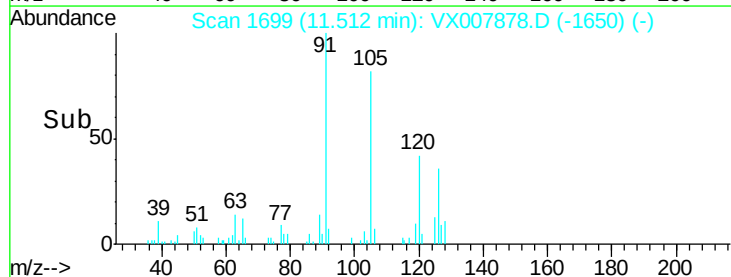
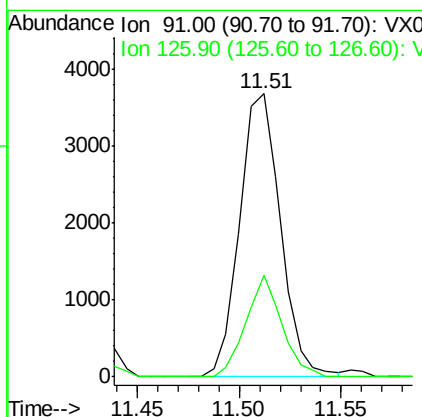
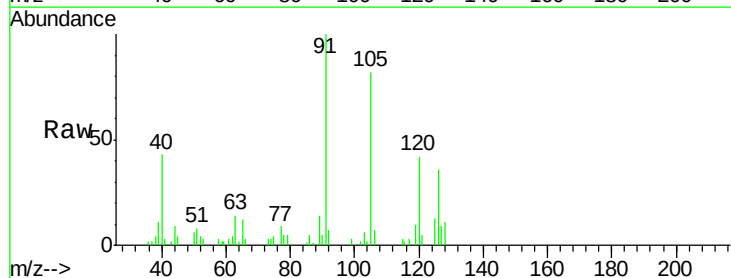
RT: 11.51 min Scan# 1699

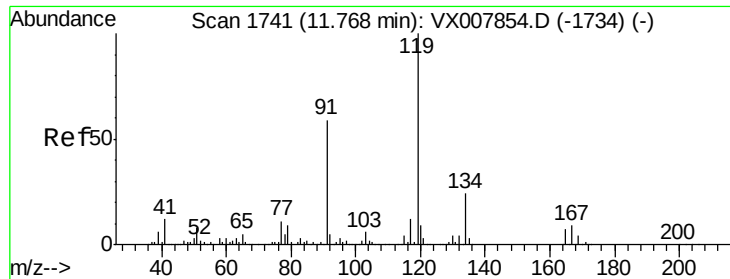
Delta R.T. 0.00 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.4	15.6	46.8





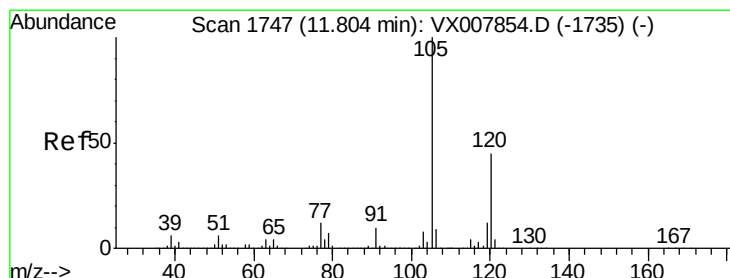
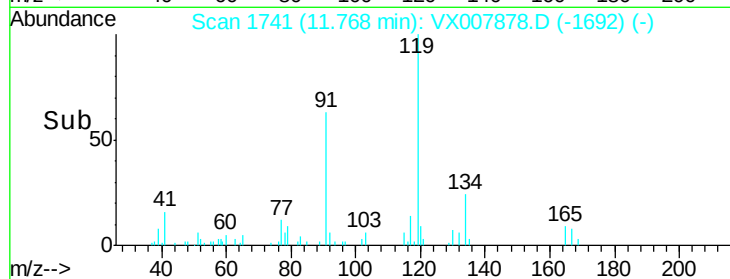
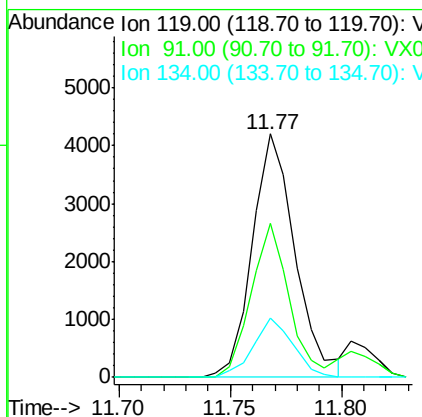
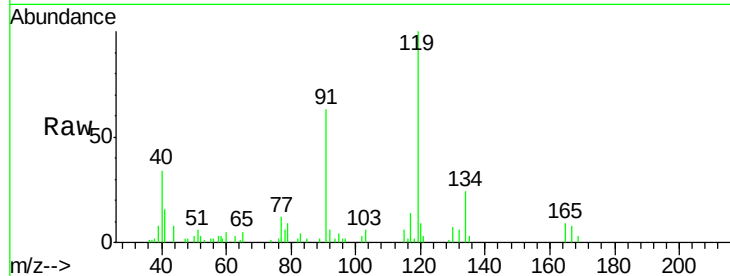
#83
 tert-Butylbenzene
 Concen: 0.582 ug/l
 RT: 11.77 min Scan# 1741
 Delta R.T. 0.00 min
 Lab File: VX007878.D
 Acq: 07 Mar 2019 12:36

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT1-2019

Tot Ion	Ratio	Resp	Lower	Upper
119	100	5630		
91	56.1		27.1	81.3
134	22.7		11.4	34.1

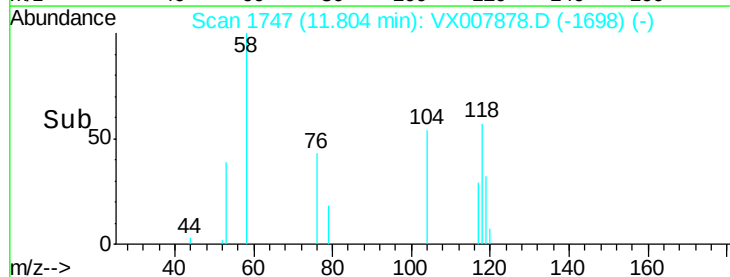
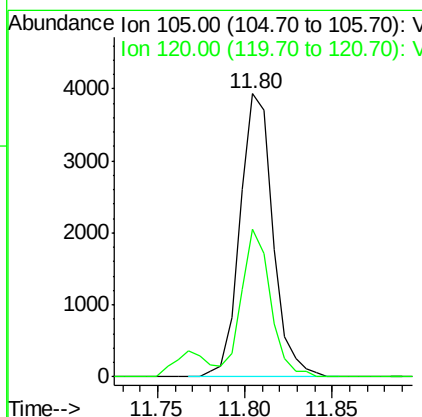
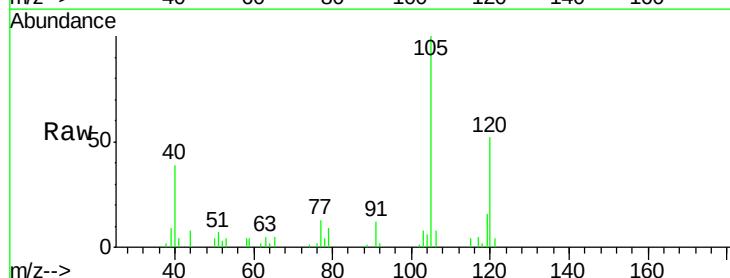
Manual Integrations
 APPROVED

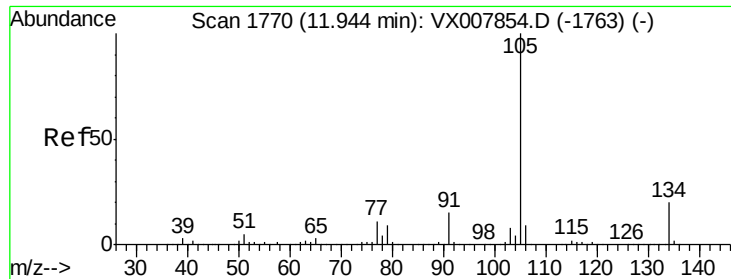
MMDadoda
 3/8/2019 9:40:34 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 0.522 ug/l
 RT: 11.80 min Scan# 1747
 Delta R.T. 0.00 min
 Lab File: VX007878.D
 Acq: 07 Mar 2019 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	5140		
120	46.0		22.6	67.7





#85

sec-Butylbenzene

Concen: 0.537 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:105 Resp: 6118

Ion Ratio Lower Upper

105 100

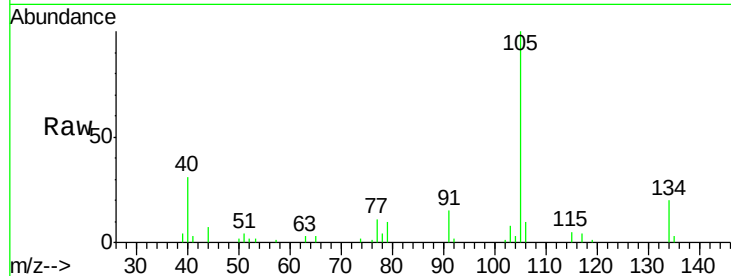
134 20.9 10.4 31.2

Manual Integrations

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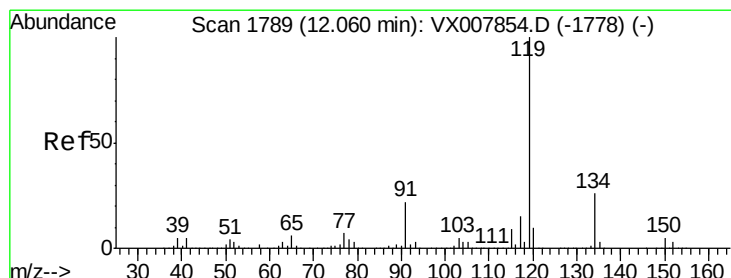
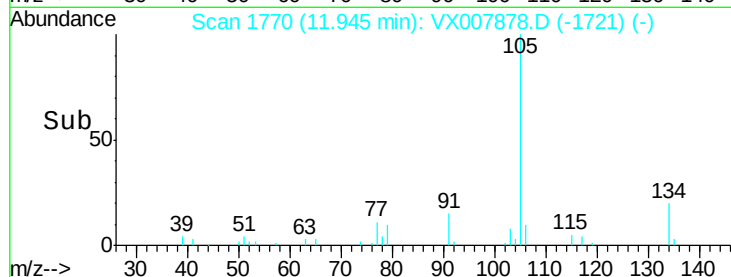
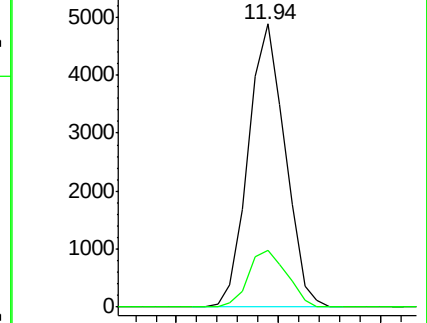
MMDadoda

3/8/2019 9:40:34 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 0.536 ug/l

RT: 12.07 min Scan# 1790

Delta R.T. 0.01 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

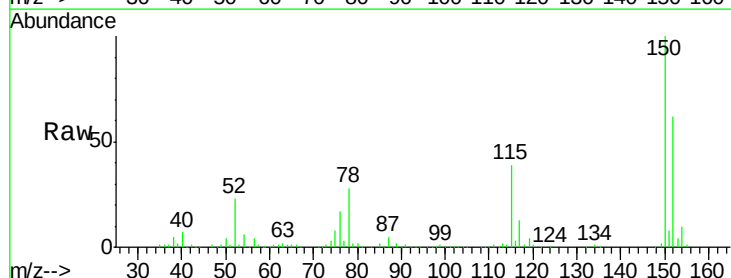
Tgt Ion:119 Resp: 5476

Ion Ratio Lower Upper

119 100

134 28.2 13.3 39.9

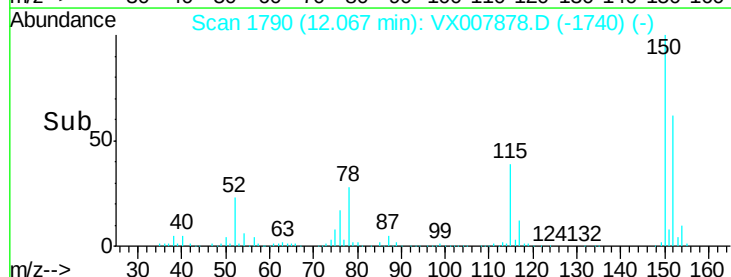
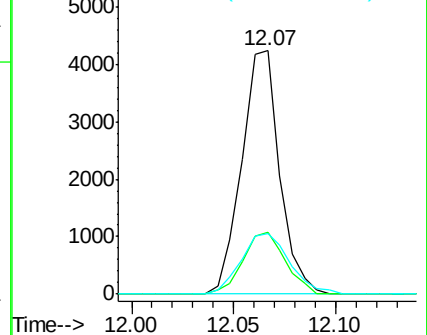
91 31.8 10.9 32.7

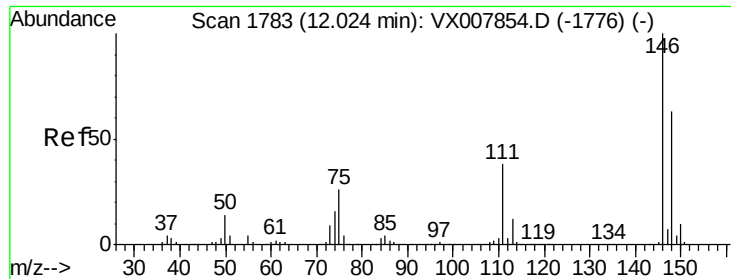


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





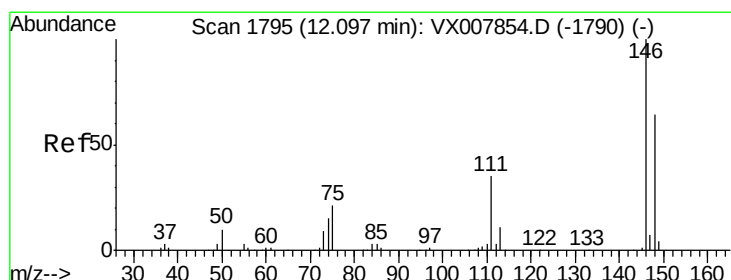
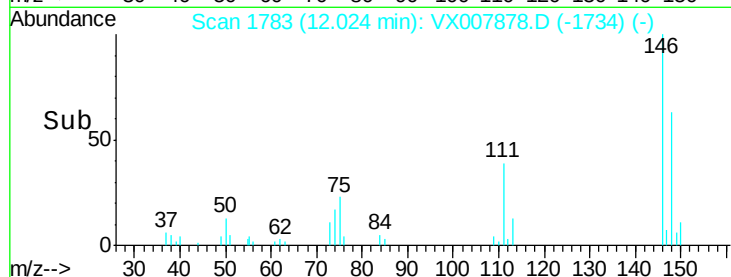
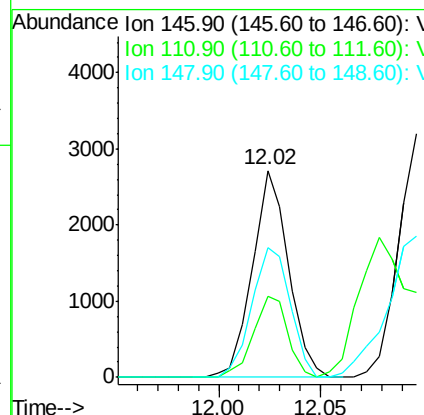
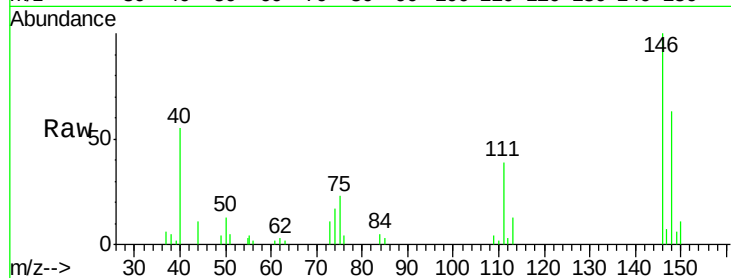
#87
 1,3-Dichlorobenzene
 Concen: 0.592 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. 0.00 min
 Lab File: VX007878.D
 Acq: 07 Mar 2019 12:36

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.3	18.9	56.7
148	66.3	31.7	95.1

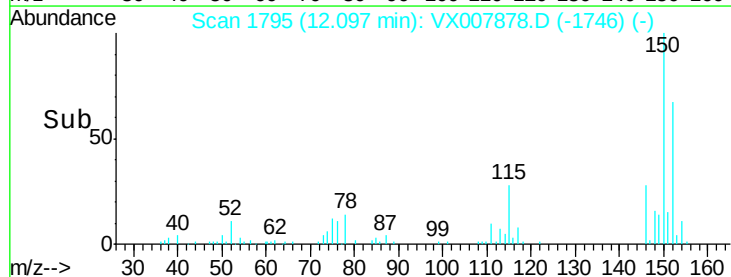
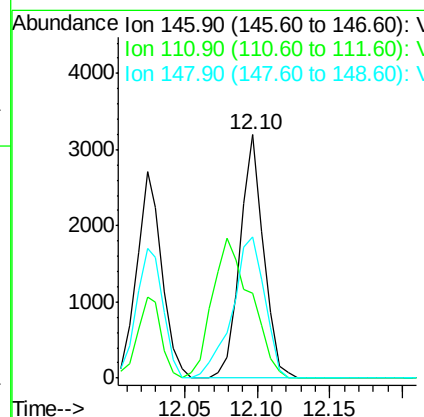
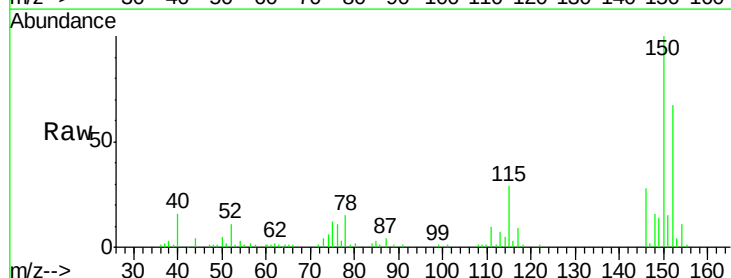
Manual Integrations
 APPROVED

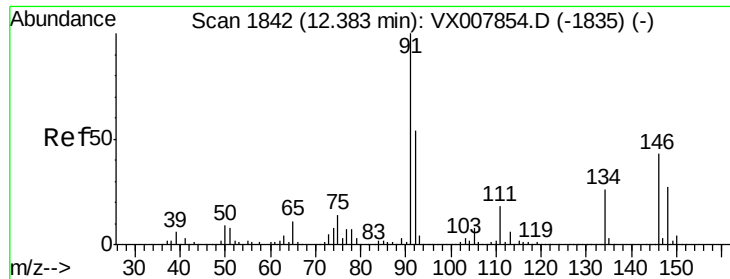
MMDadoda
 3/8/2019 9:40:34 AM



#88
 1,4-Dichlorobenzene
 Concen: 0.628 ug/l m
 RT: 12.10 min Scan# 1795
 Delta R.T. 0.00 min
 Lab File: VX007878.D
 Acq: 07 Mar 2019 12:36

Tgt Ion	Ratio	Lower	Upper
146	100		
111	34.4	18.4	55.0
148	61.1	32.2	96.6





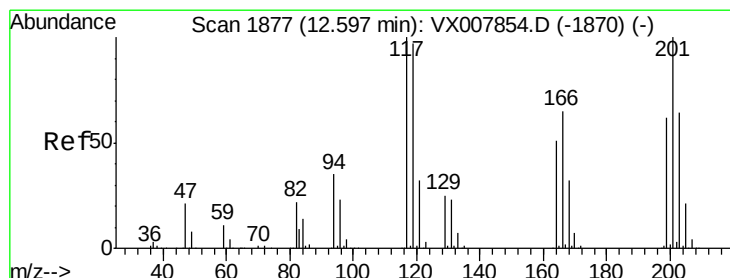
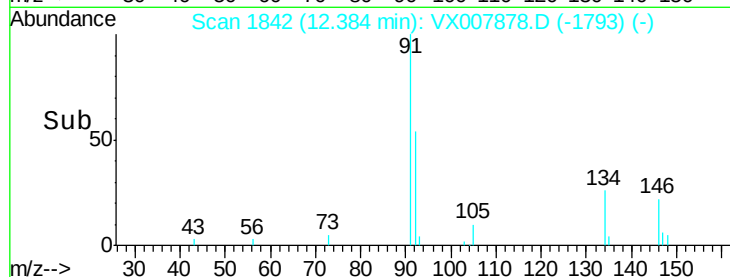
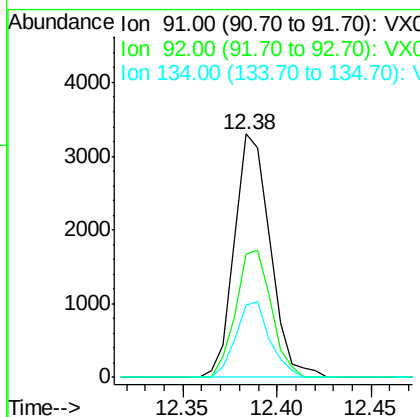
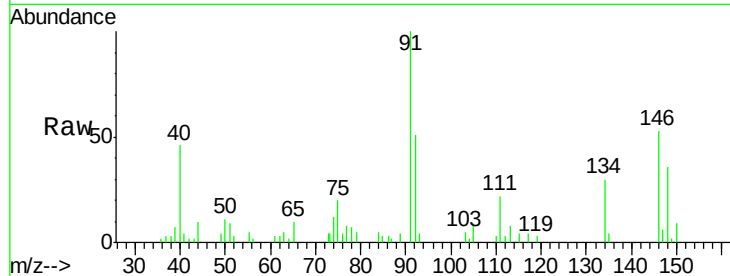
#89
n-Butylbenzene
Concen: 0.503 ug/l
RT: 12.38 min Scan# 1842
Delta R.T. 0.00 min
Lab File: VX007878.D
Acq: 07 Mar 2019 12:36

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT1-2019

Tot Ion: 91 Resp: 4350
Ion Ratio Lower Upper
91 100
92 51.5 27.0 80.8
134 29.5 13.7 41.0

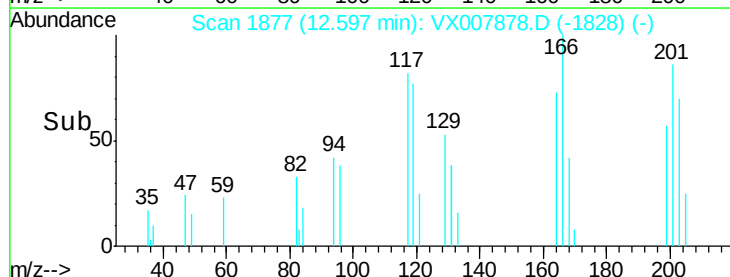
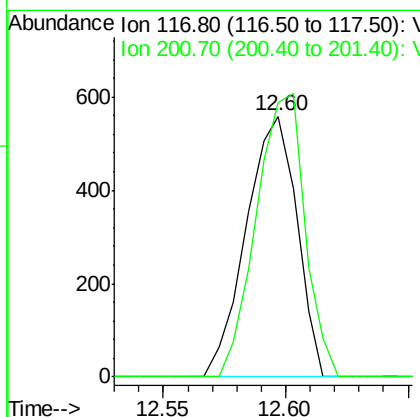
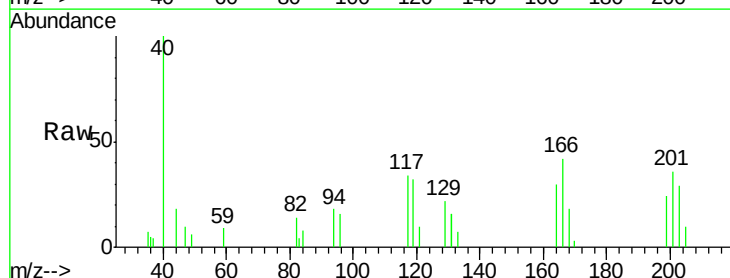
Manual Integrations
APPROVED

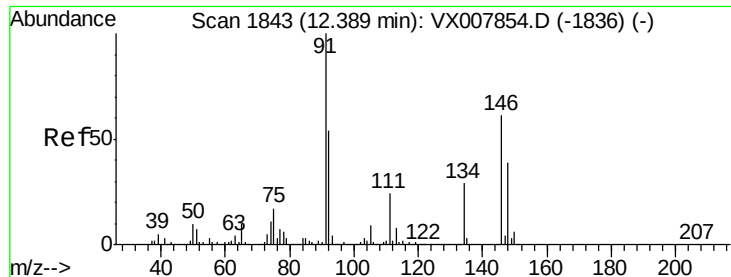
MMDadoda
3/8/2019 9:40:34 AM



#90
Hexachloroethane
Concen: 0.470 ug/l
RT: 12.60 min Scan# 1877
Delta R.T. 0.00 min
Lab File: VX007878.D
Acq: 07 Mar 2019 12:36

Tgt Ion: 117 Resp: 802
Ion Ratio Lower Upper
117 100
201 104.4 48.9 146.7





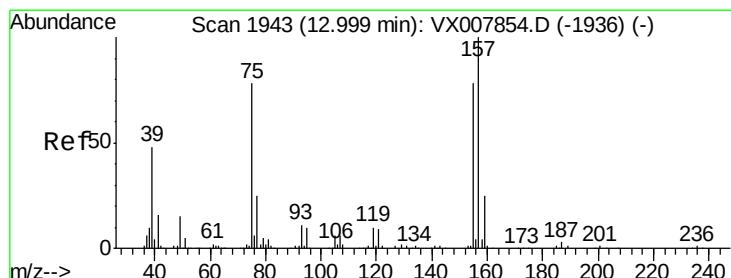
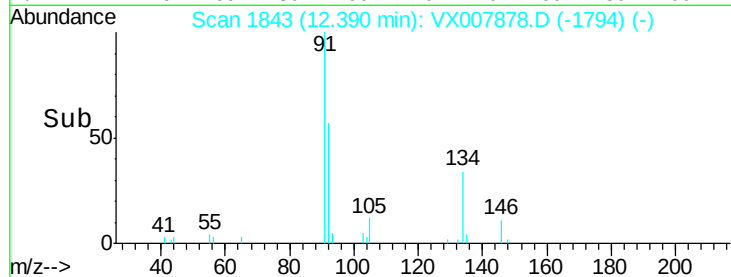
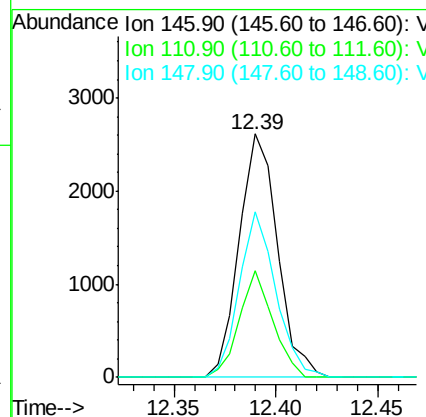
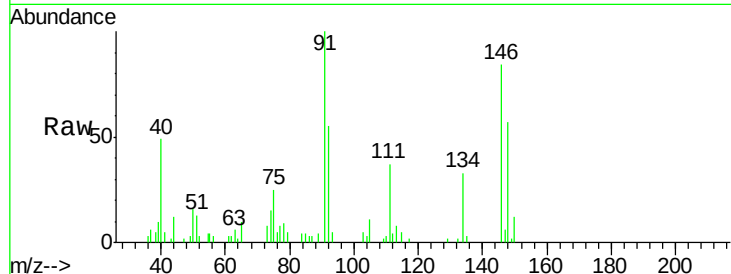
#91
 1,2-Dichlorobenzene
 Concen: 0.605 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. 0.00 min
 Lab File: VX007878.D
 Acq: 07 Mar 2019 12:36

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.0	19.6	58.8
148	64.7	31.9	95.5

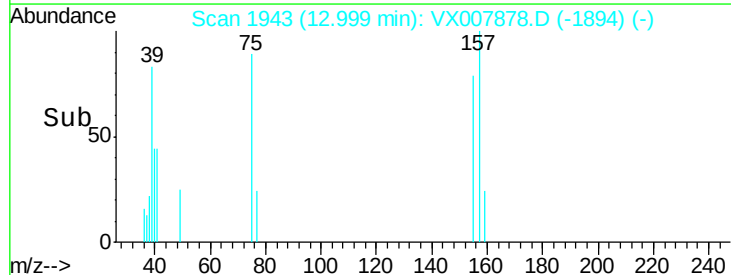
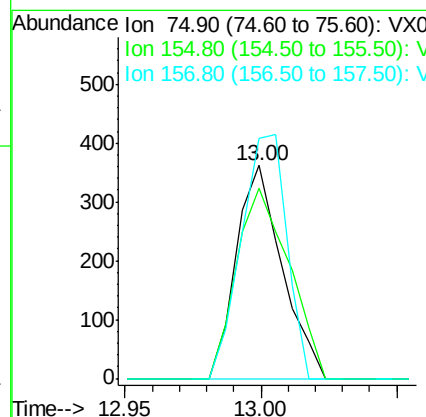
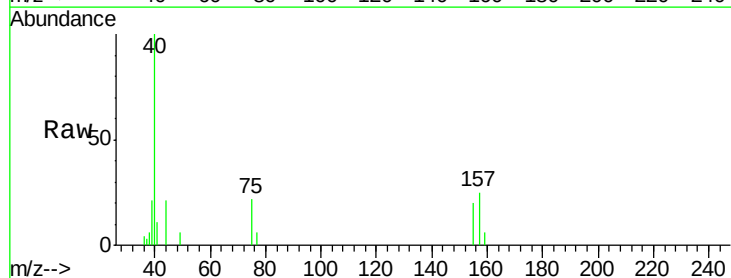
Manual Integrations
 APPROVED

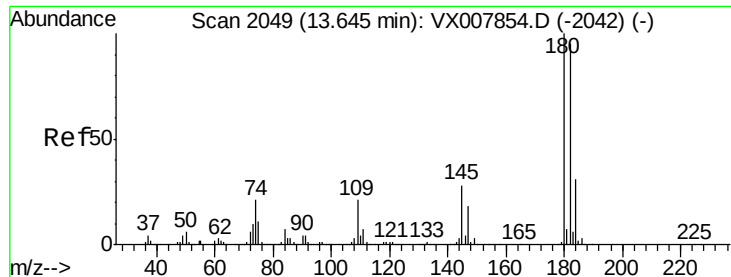
MMDadoda
 3/8/2019 9:40:34 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.501 ug/l
 RT: 13.00 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VX007878.D
 Acq: 07 Mar 2019 12:36

Tgt Ion	Ratio	Lower	Upper
75	100		
155	102.8	49.7	149.1
157	114.0	63.8	191.4





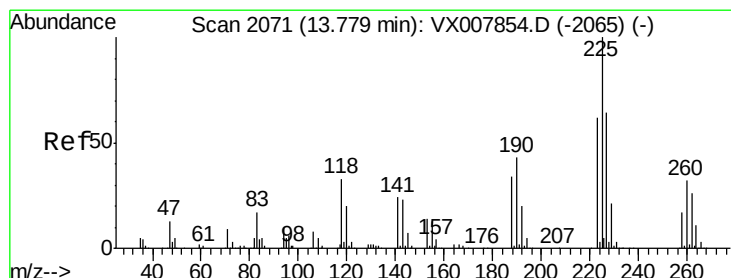
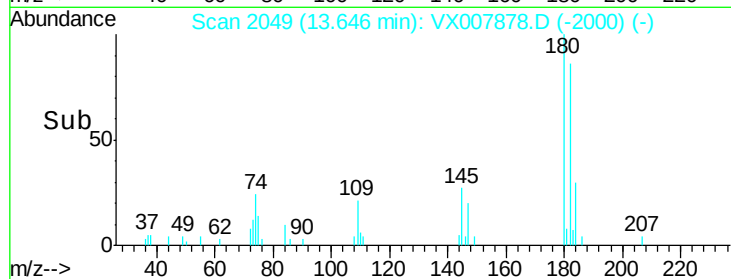
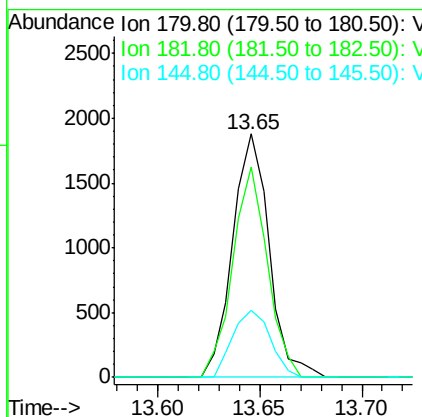
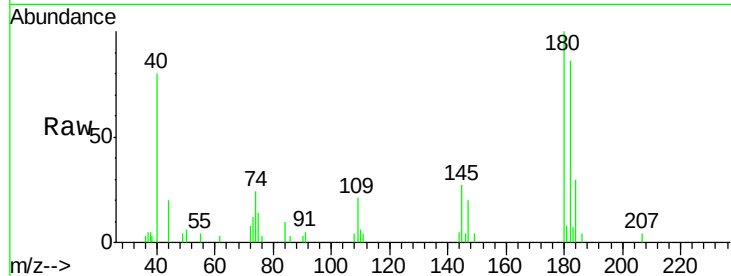
#93
 1,2,4-Trichlorobenzene
 Concen: 0.589 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. 0.00 min
 Lab File: VX007878.D
 Acq: 07 Mar 2019 12:36

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT1-2019

Tot Ion	Ratio	Resp	Lower	Upper
180	100	2330		
182	82.0		47.9	143.7
145	28.5		14.1	42.4

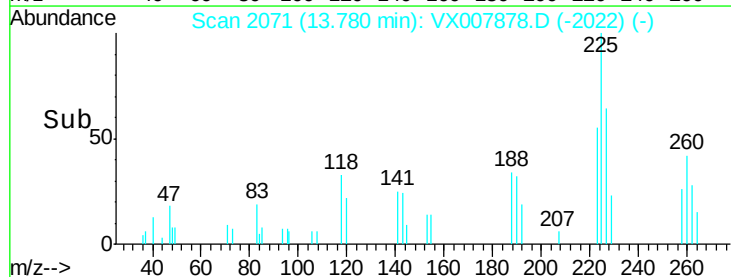
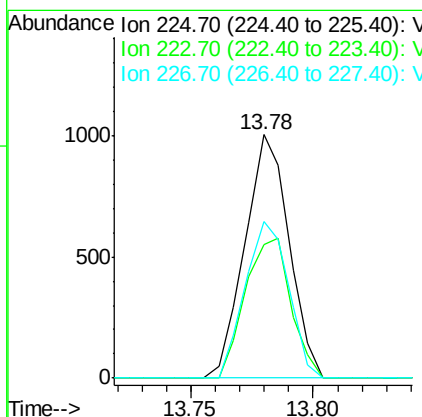
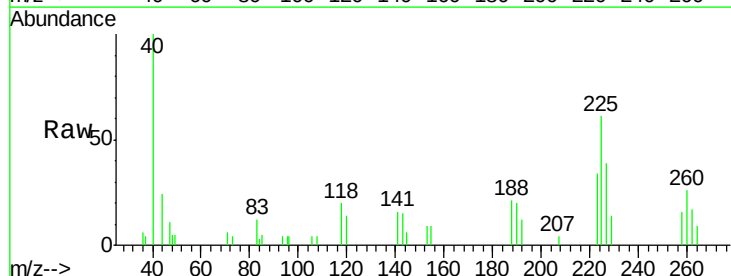
Manual Integrations
 APPROVED

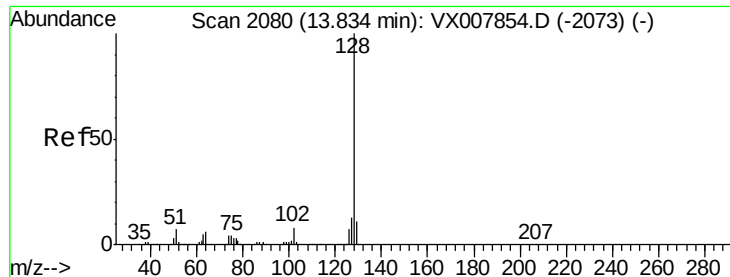
MMDadoda
 3/8/2019 9:40:34 AM



#94
 Hexachlorobutadiene
 Concen: 0.612 ug/l
 RT: 13.78 min Scan# 2071
 Delta R.T. 0.00 min
 Lab File: VX007878.D
 Acq: 07 Mar 2019 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	1265		
223	59.3		31.1	93.2
227	63.1		32.0	96.0





#95

Naphthalene

Concen: 0.513 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Instrument :

MSVOA_X

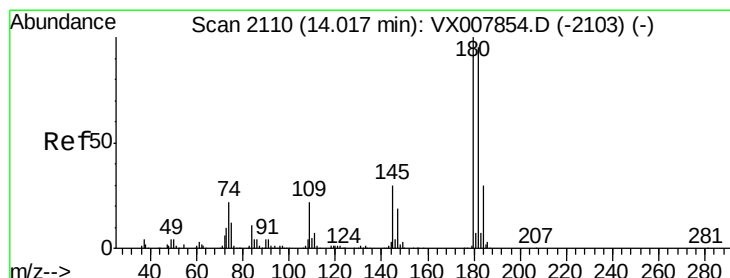
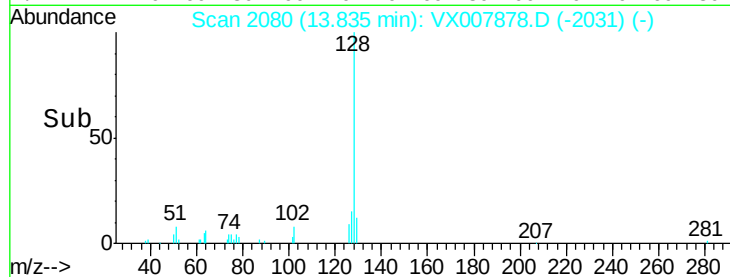
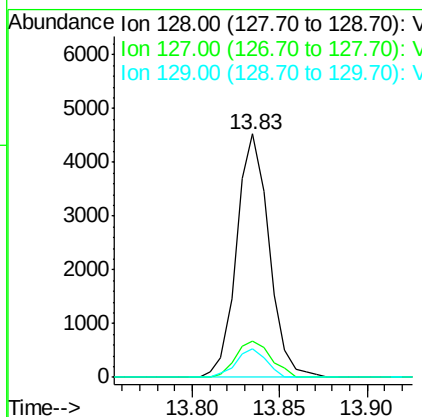
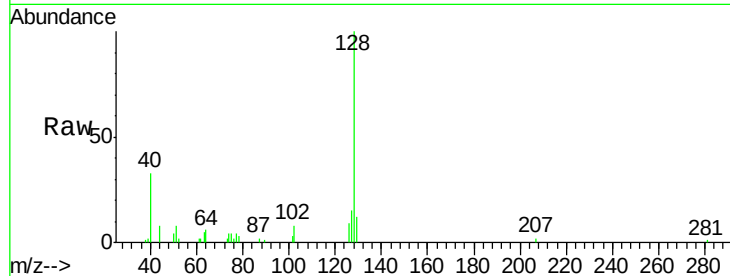
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:	128	Resp:	5839
Ion	Ratio	Lower	Upper
128	100		
127	16.3	10.3	15.5#
129	10.7	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
3/8/2019 9:40:34 AM



#96

1,2,3-Trichlorobenzene

Concen: 0.541 ug/l

RT: 14.02 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VX007878.D

Acq: 07 Mar 2019 12:36

Tgt Ion:	180	Resp:	2129
Ion	Ratio	Lower	Upper
180	100		
182	101.7	47.5	142.5
145	31.3	14.8	44.3

