

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072419\
 Data File : VX011057.D
 Acq On : 24 Jul 2019 13:19
 Operator : JC/SP
 Sample : K3591-09 2.5PPB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

Manual Integrations
 APPROVED

MMDadoda
 7/25/2019 3:54:45 PM

Quant Time: Jul 25 03:51:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071919W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 03:27:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	35579	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	200200	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	175295	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	71320	29.57	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.57%
60) 4-Bromofluorobenzene	11.13	95	82509	28.60	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.33%
63) Toluene-d8	8.71	98	232659	30.20	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	4600	1.956 ug/l	99
3) Chloromethane	1.32	50	4948	2.392 ug/l	97
4) Vinyl Chloride	1.41	62	4638	2.150 ug/l	88
5) Bromomethane	1.64	94	4079	3.435 ug/l	99
6) Chloroethane	1.73	64	3845m	3.013 ug/l	
7) Trichlorofluoromethane	1.93	101	9063	2.530 ug/l	97
8) Diethyl Ether	2.18	74	3214	2.732 ug/l	100
9) 1,1,2-Trichlorotrifluoroet	2.38	101	5357	2.706 ug/l	96
10) 1,1-Dichloroethene	2.37	96	5022	2.524 ug/l	93
11) Methyl Iodide	2.51	142	4927	1.844 ug/l	93
12) Methyl Acetate	2.78	43	5659	2.025 ug/l	92
13) Acrolein	2.29	56	4756	14.193 ug/l	95
14) Acrylonitrile	3.14	53	13810	12.626 ug/l	98
15) Acetone	2.44	58	4737	15.553 ug/l	97
16) Carbon Disulfide	2.57	76	11156	2.182 ug/l	97
17) Allyl chloride	2.73	41	6753	2.344 ug/l	97
18) Methylene Chloride	2.85	84	5941	2.681 ug/l	96
19) trans-1,2-Dichloroethene	3.16	96	5001	2.379 ug/l	98
20) Diisopropyl ether	3.85	45	15543	2.556 ug/l	99
21) 1,1-Dichloroethane	3.70	63	8789	2.511 ug/l	98
22) cis-1,2-Dichloroethene	4.60	96	5723	2.367 ug/l	86
23) tert-Butyl Alcohol	3.04	59	8387	14.686 ug/l	# 99
24) Methyl tert-Butyl Ether	3.19	73	15848	2.481 ug/l	93
25) Chloroform	5.21	83	10244	2.673 ug/l	94
26) Cyclohexane	5.58	56	7933	2.477 ug/l	# 91
29) 1,1-Dichloropropene	5.80	75	6895	2.449 ug/l	99
30) 2-Butanone	4.67	43	18743	12.333 ug/l	# 98
31) 2,2-Dichloropropane	4.59	77	7202	2.931 ug/l	97
32) 1,1,1-Trichloroethane	5.49	97	7432	2.189 ug/l	# 85
33) Carbon Tetrachloride	5.78	117	6587	2.231 ug/l	93
34) Benzene	6.14	78	21033	2.490 ug/l	96
35) Methacrylonitrile	5.03	41	3425	2.165 ug/l	82
36) 1,2-Dichloroethane	6.20	62	7507	2.486 ug/l	98
37) Trichloroethene	7.21	130	6205	2.510 ug/l	89
38) Methylcyclohexane	7.46	83	8450	2.378 ug/l	97
39) 1,2-Dichloropropane	7.51	63	5454	2.584 ug/l	98
40) Dibromomethane	7.65	93	4031	2.596 ug/l	90

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Quant Time: Jul 25 03:51:00 2019
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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 03:27:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	6166	2.182	ug/l	98
42) Vinyl Acetate	3.81	43	57843	11.552	ug/l	99
43) Ethyl Acetate	4.83	43	7776m	2.666	ug/l	
44) Isopropyl Acetate	6.45	43	10672	2.246	ug/l	95
45) 1,4-Dioxane	7.74	88	3113	50.336	ug/l	96
46) Methyl methacrylate	7.77	41	4799	2.081	ug/l	93
47) n-amyl Acetate	10.90	43	8070	1.894	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	5918	1.987	ug/l	92
49) cis-1,3-Dichloropropene	8.43	75	6807	2.094	ug/l	97
50) 1,1,2-Trichloroethane	9.21	97	5808	2.556	ug/l	96
51) Ethyl methacrylate	9.17	69	7452	2.121	ug/l	95
52) 1,3-Dichloropropane	9.37	76	8946	2.450	ug/l	98
53) Dibromochloromethane	9.58	129	4671	1.903	ug/l	100
54) 1,2-Dibromoethane	9.67	107	5461	2.211	ug/l	100
55) 2-Chloroethyl vinyl ether	8.31	63	19439	13.062	ug/l	99
56) Bromoform	10.86	173	3541	1.937	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	35539	12.005	ug/l	97
59) 2-Hexanone	9.49	43	26305	11.612	ug/l	99
61) Tetrachloroethene	9.34	164	6134	2.650	ug/l	96
62) Toluene	8.78	91	22582	2.425	ug/l	99
64) Chlorobenzene	10.13	112	14720	2.467	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	4681	2.159	ug/l	94
66) Ethyl Benzene	10.25	91	24989	2.384	ug/l	99
67) m/p-Xylenes	10.36	106	19012	4.740	ug/l	97
68) o-Xylene	10.69	106	9700	2.468	ug/l	96
69) Styrene	10.71	104	14831	2.245	ug/l	99
70) Isopropylbenzene	11.02	105	24670	2.357	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	7995	2.369	ug/l	96
72) 1,2,3-Trichloropropane	11.29	75	7425m	2.636	ug/l	
73) Bromobenzene	11.25	156	6721	2.380	ug/l	96
74) n-propylbenzene	11.36	91	27199	2.309	ug/l	99
75) 2-Chlorotoluene	11.42	91	17217	2.454	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	20320	2.294	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	1763	1.897	ug/l	87
78) 4-Chlorotoluene	11.51	91	18615	2.311	ug/l	98
79) tert-butylbenzene	11.77	119	20234	2.355	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	20882	2.341	ug/l	96
81) sec-Butylbenzene	11.94	105	23423	2.313	ug/l	99
82) p-Isopropyltoluene	12.06	119	21332	2.270	ug/l	97
83) 1,3-Dichlorobenzene	12.02	146	11995	2.406	ug/l	97
84) 1,4-Dichlorobenzene	12.09	146	11985	2.419	ug/l	97
85) n-Butylbenzene	12.38	91	18079	2.259	ug/l	99
86) Hexachloroethane	12.59	117	2886	1.947	ug/l	98
87) 1,2-Dichlorobenzene	12.39	146	11789	2.416	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	13.00	75	1576	2.121	ug/l	83
89) 1,2,4-Trichlorobenzene	13.65	180	7673	2.279	ug/l	96
90) Hexachlorobutadiene	13.78	225	3934	2.417	ug/l	97
91) Naphthalene	13.83	128	20744	2.020	ug/l	98
92) 1,2,3-Trichlorobenzene	14.02	180	7750	2.297	ug/l	96

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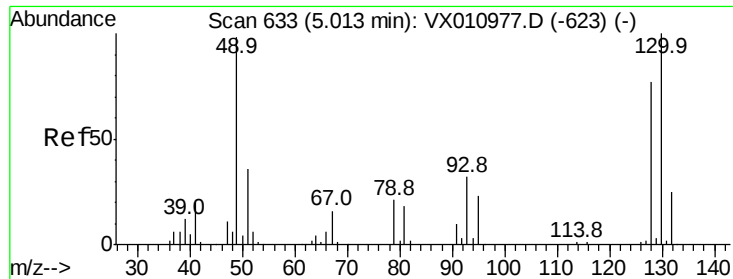
Manual Integrations
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7/25/2019 3:54:45 PM

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jul 19 03:27:28 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 633

Delta R.T. 0.00 min

Lab File: VX011057.D

Acq: 24 Jul 2019 13:19

Instrument :

MSVOA_X

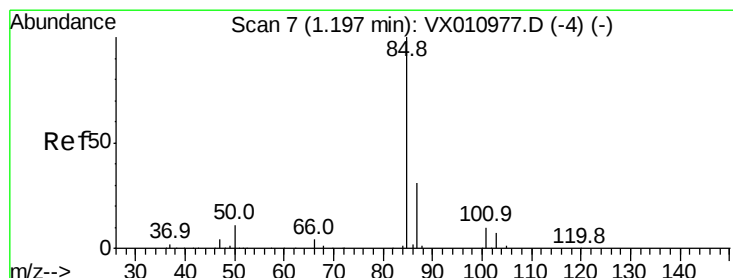
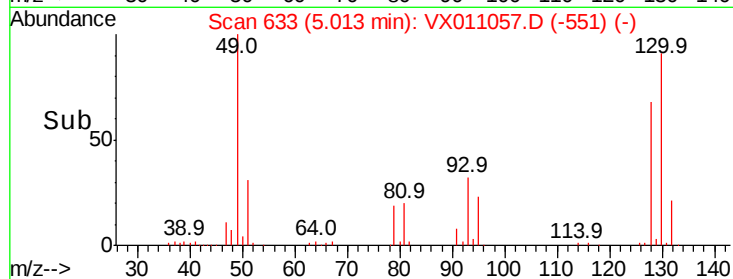
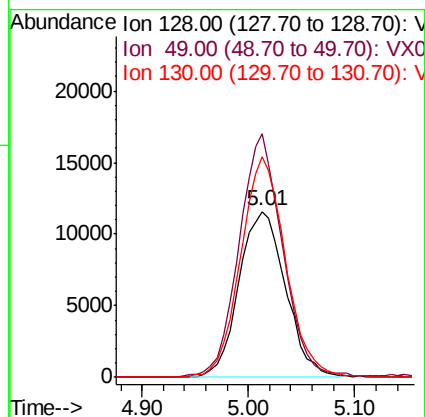
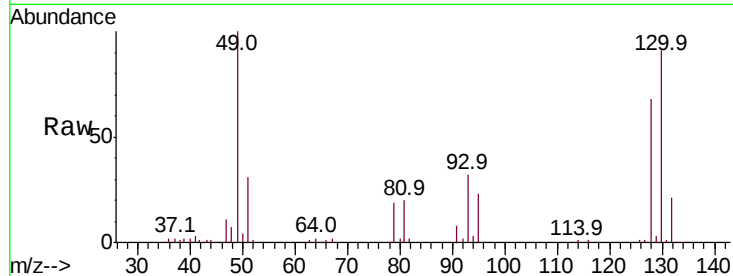
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion:	128	Resp:	35579
Ion	Ratio	Lower	Upper
128	100		
49	137.2	0.0	343.5
130	128.1	0.0	324.7

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#2

Dichlorodifluoromethane

Concen: 1.956 ug/l

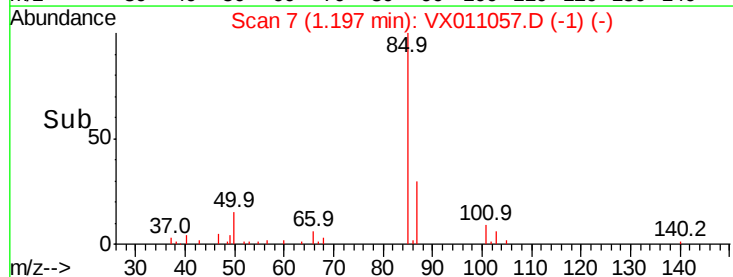
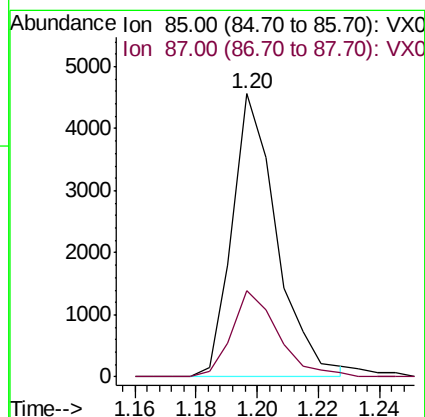
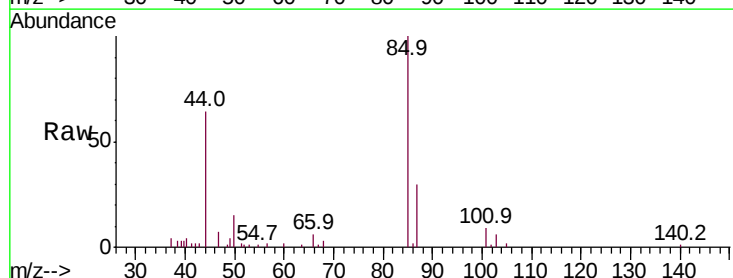
RT: 1.20 min Scan# 7

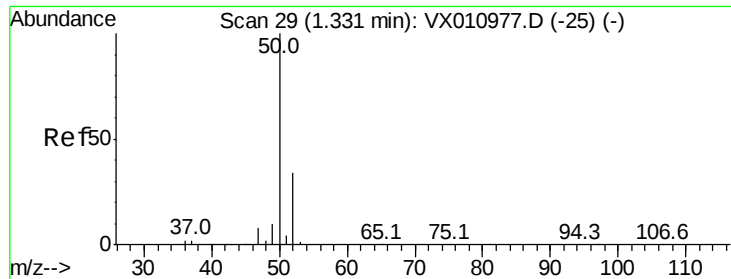
Delta R.T. 0.00 min

Lab File: VX011057.D

Acq: 24 Jul 2019 13:19

Tgt Ion:	85	Resp:	4600
Ion	Ratio	Lower	Upper
85	100		
87	30.3	15.4	46.1





#3

Chloromethane

Concen: 2.392 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.01 min

Lab File: VX011057.D

Acq: 24 Jul 2019 13:19

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion: 50 Resp: 4948

Ion Ratio Lower Upper

50 100

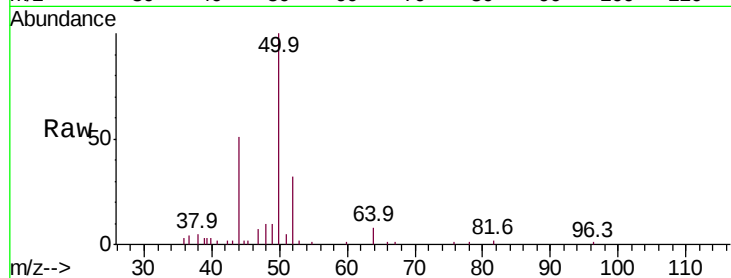
52 32.5 27.3 40.9

Manual Integrations

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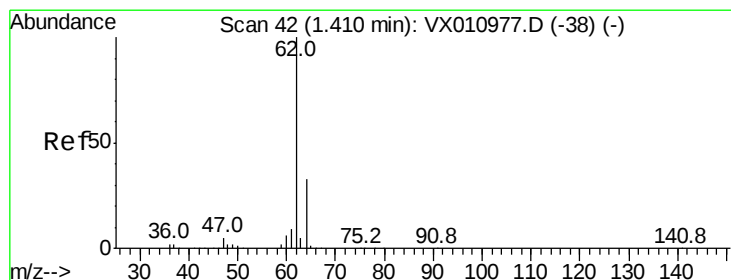
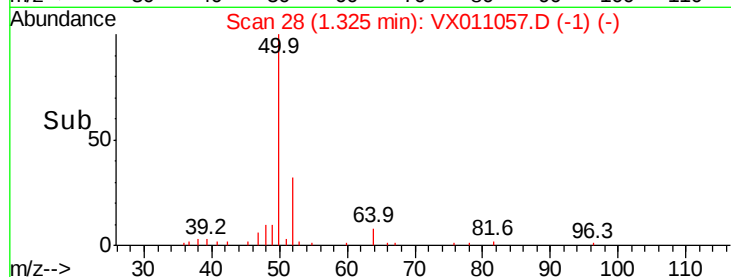
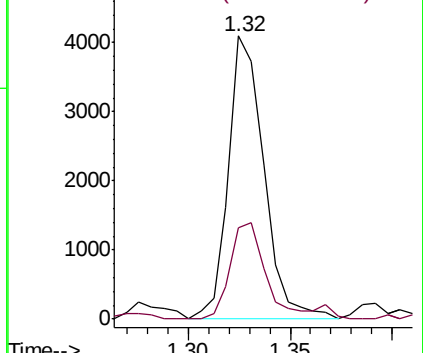
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Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#4

Vinyl Chloride

Concen: 2.150 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX011057.D

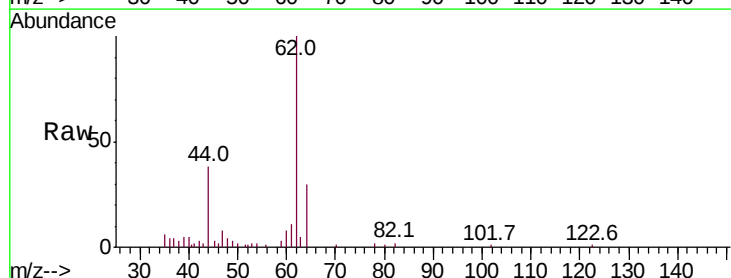
Acq: 24 Jul 2019 13:19

Tgt Ion: 62 Resp: 4638

Ion Ratio Lower Upper

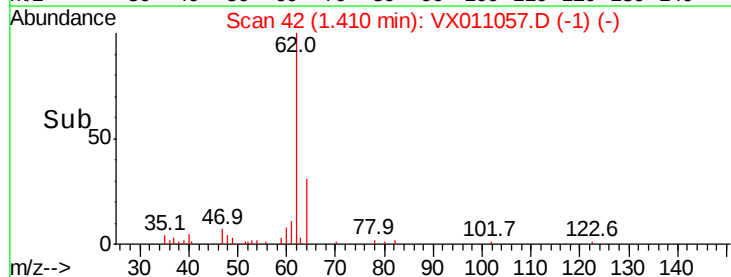
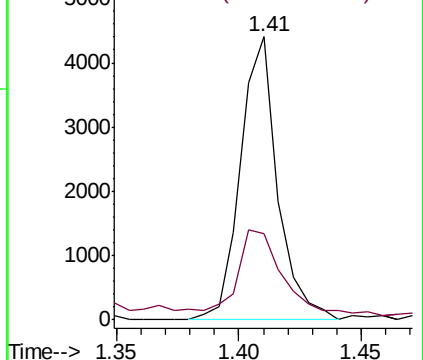
62 100

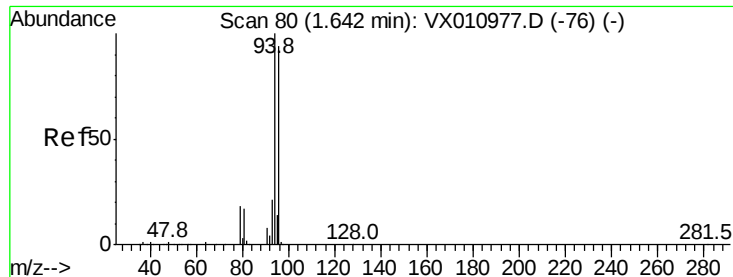
64 26.9 26.8 40.2



Abundance Ion 62.00 (61.70 to 62.70): VX0

Ion 64.00 (63.70 to 64.70): VX0





#5

Bromomethane

Concen: 3.435 ug/l

RT: 1.64 min Scan# 79

Delta R.T. -0.01 min

Lab File: VX011057.D

Acq: 24 Jul 2019 13:19

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion: 94 Resp: 4079

Ion Ratio Lower Upper

94 100

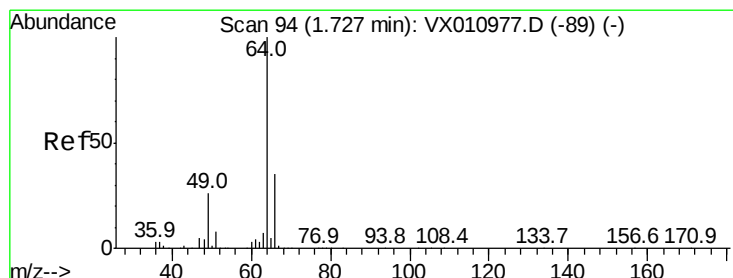
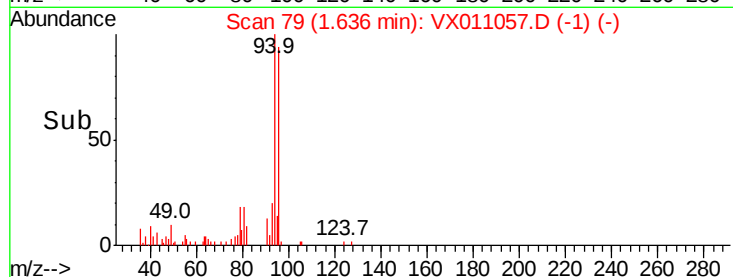
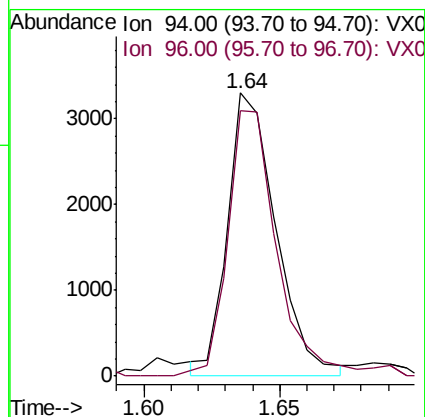
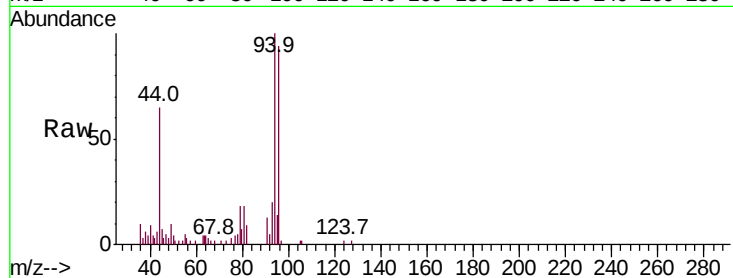
96 95.1 75.4 113.2

Manual Integrations

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#6

Chloroethane

Concen: 3.013 ug/l m

RT: 1.73 min Scan# 94

Delta R.T. 0.00 min

Lab File: VX011057.D

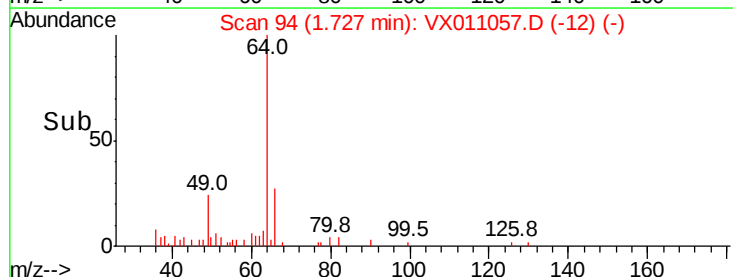
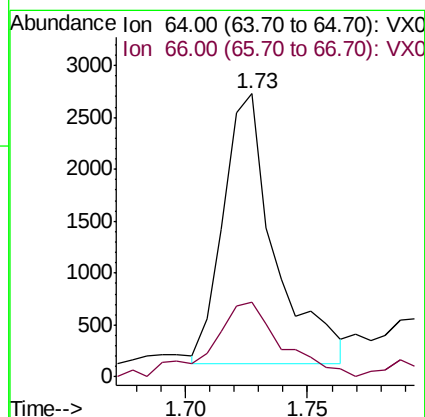
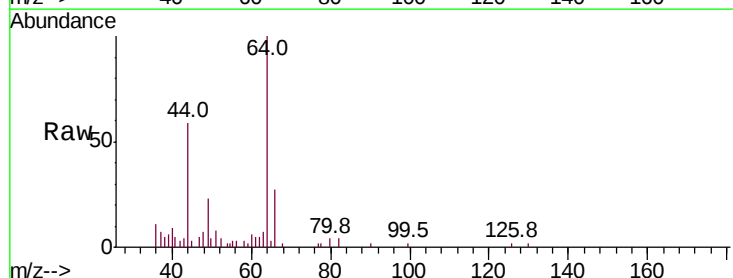
Acq: 24 Jul 2019 13:19

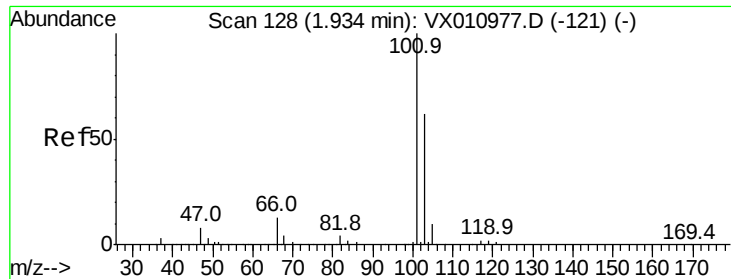
Tgt Ion: 64 Resp: 3845

Ion Ratio Lower Upper

64 100

66 26.6 28.1 42.1#





#7

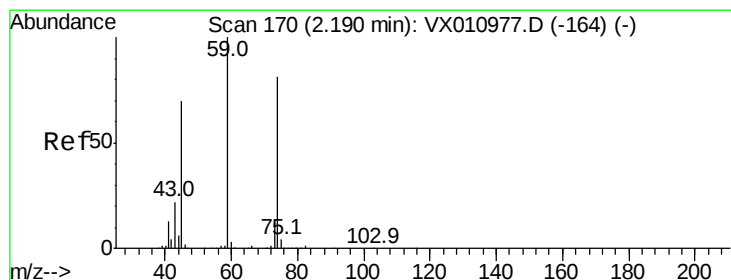
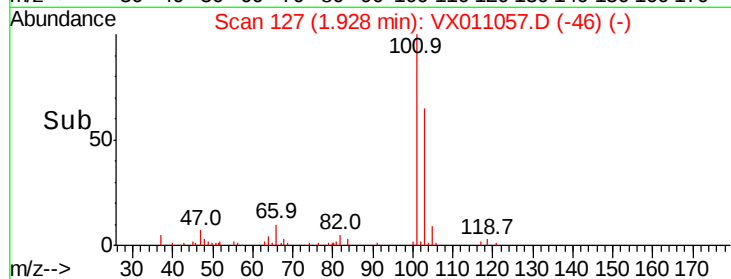
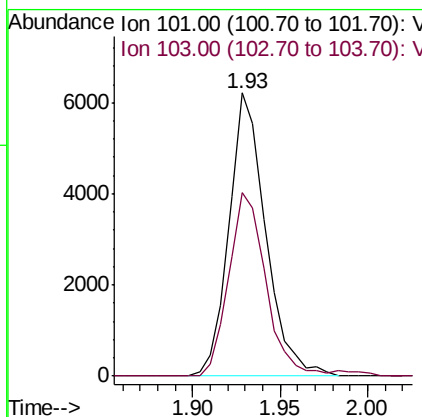
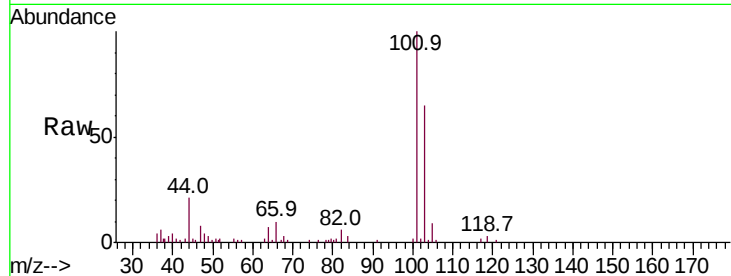
Trichlorofluoromethane
 Concen: 2.530 ug/l
 RT: 1.93 min Scan# 127
 Delta R.T. -0.01 min
 Lab File: VX011057.D
 Acq: 24 Jul 2019 13:19

Instrument :
 MSVOA_X
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Tot Ion	Ratio	Resp	Lower	Upper
101	100	9063		
103	64.7	49.6	74.4	

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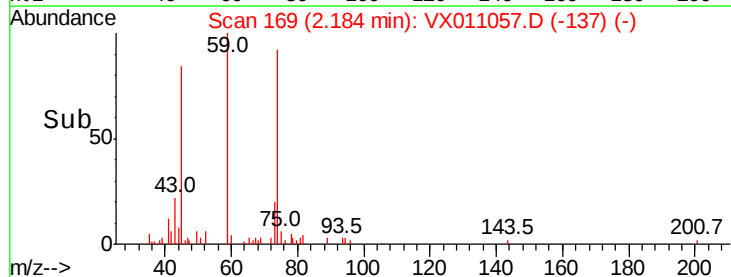
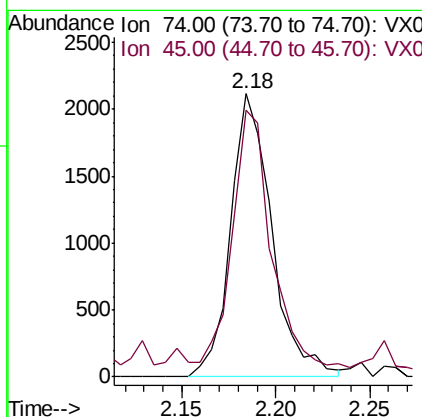
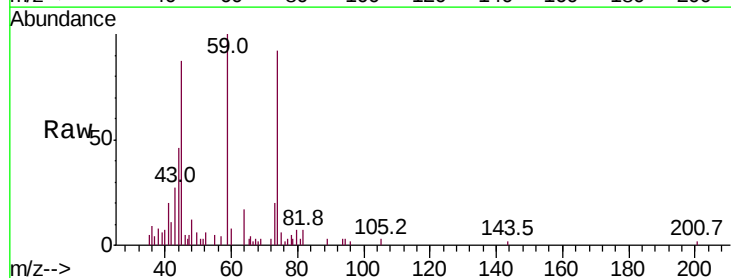
MMDadoda
 7/25/2019 3:54:45 PM

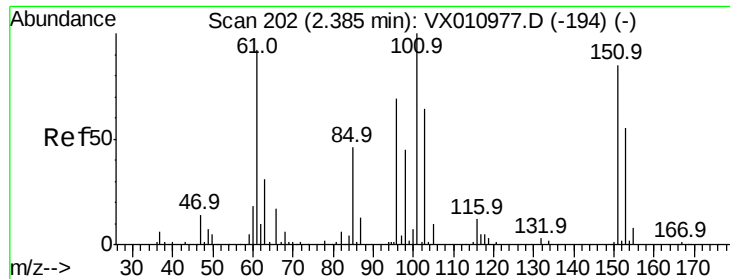


#8

Diethyl Ether
 Concen: 2.732 ug/l
 RT: 2.18 min Scan# 169
 Delta R.T. -0.01 min
 Lab File: VX011057.D
 Acq: 24 Jul 2019 13:19

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	3214		
45	90.9	18.3	164.3	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.706 ug/l

RT: 2.38 min Scan# 201

Delta R.T. -0.01 min

Lab File: VX011057.D

Acq: 24 Jul 2019 13:19

Instrument :

MSVOA_X

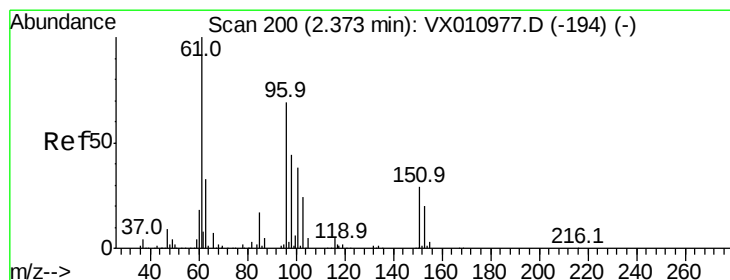
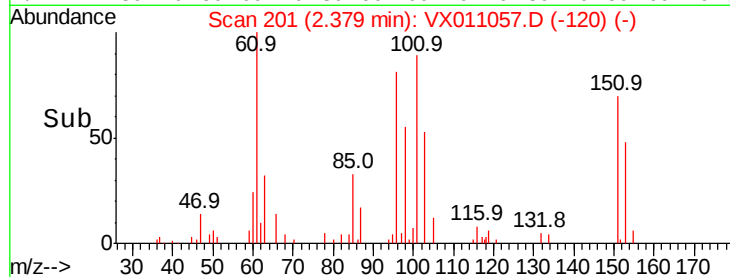
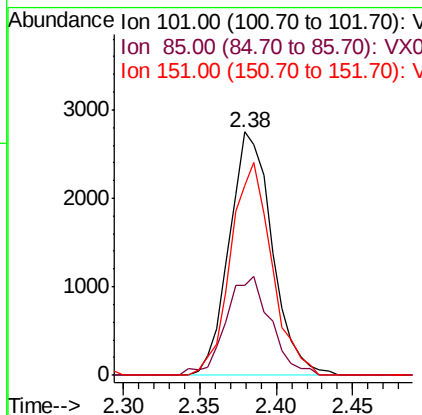
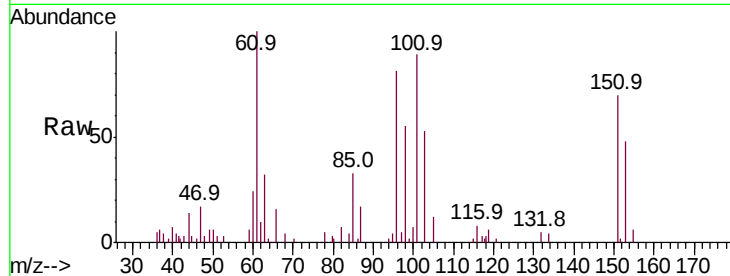
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion:	101	Resp:	5357
Ion Ratio	Lower	Upper	
101	100		
85	41.3	0.0	89.8
151	83.7	0.0	172.2

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#10

1,1-Dichloroethene

Concen: 2.524 ug/l

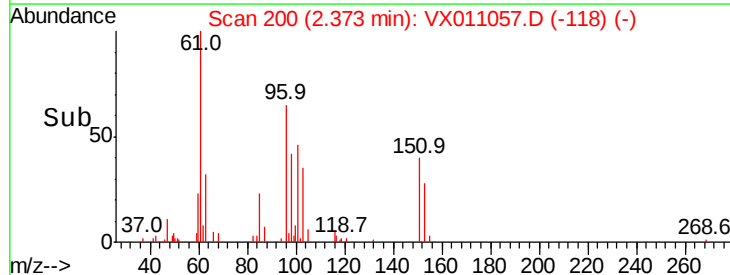
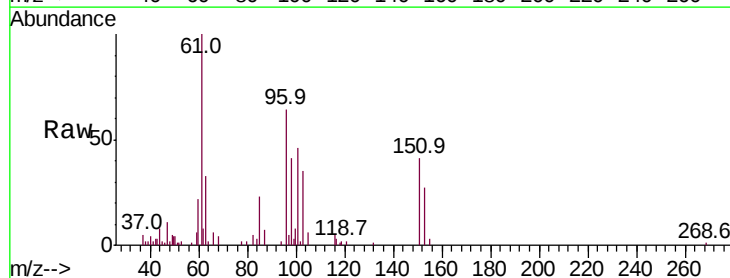
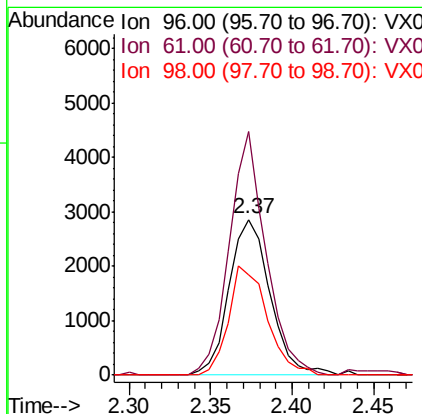
RT: 2.37 min Scan# 200

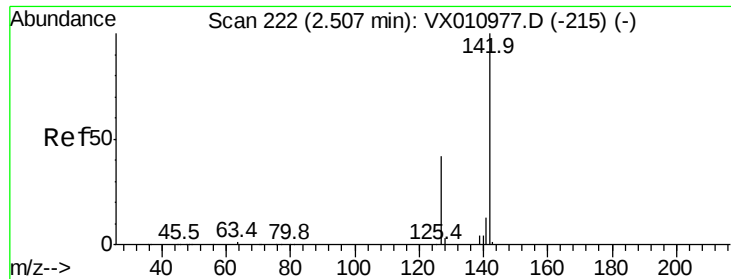
Delta R.T. 0.00 min

Lab File: VX011057.D

Acq: 24 Jul 2019 13:19

Tgt Ion:	96	Resp:	5022
Ion Ratio	Lower	Upper	
96	100		
61	156.5	115.9	173.9
98	64.4	50.6	75.8





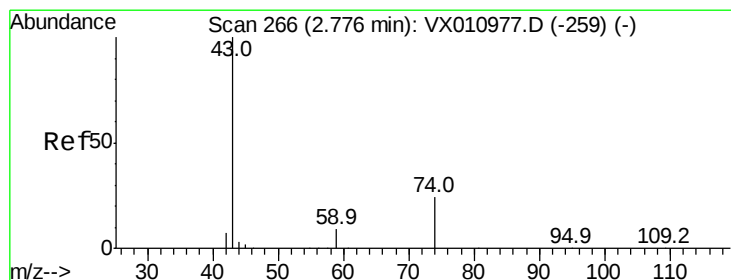
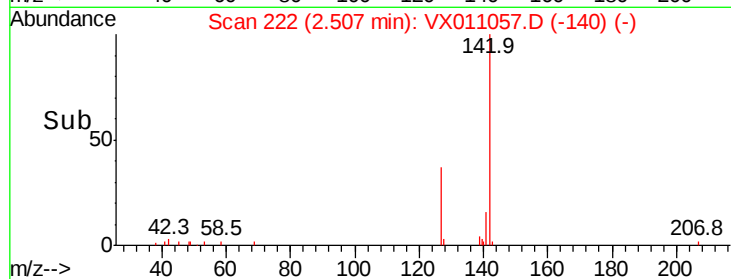
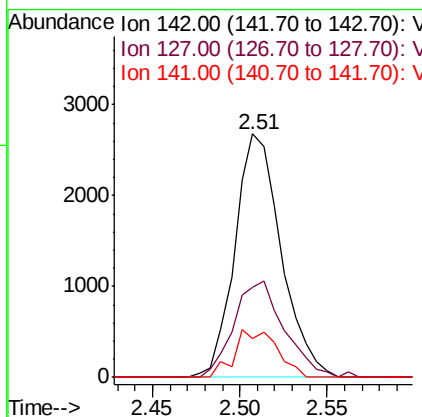
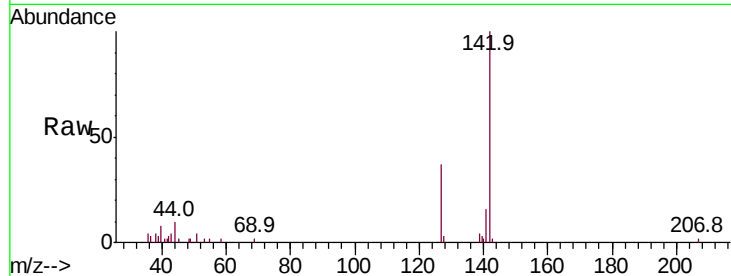
#11
Methyl Iodide
Concen: 1.844 ug/l
RT: 2.51 min Scan# 222
Delta R.T. 0.00 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
142	100		
127	37.0	20.7	62.1
141	16.2	6.7	20.0

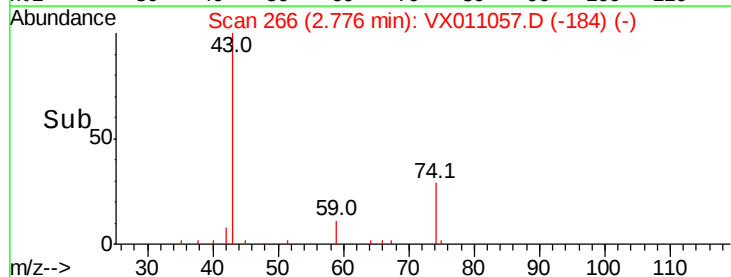
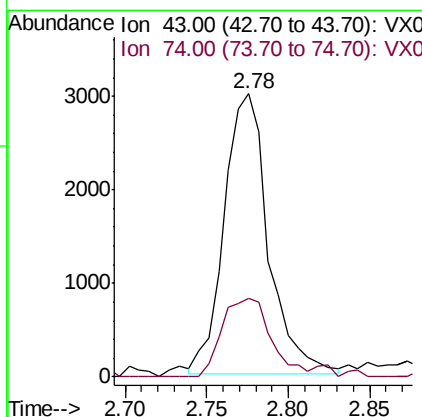
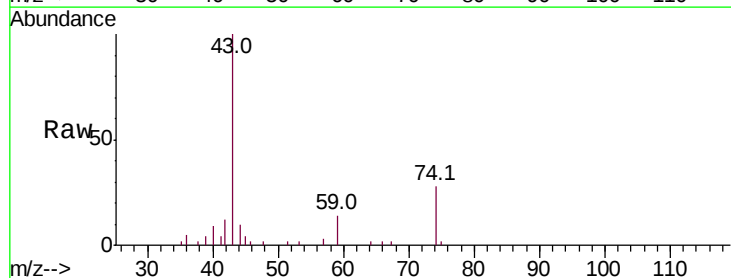
Manual Integrations
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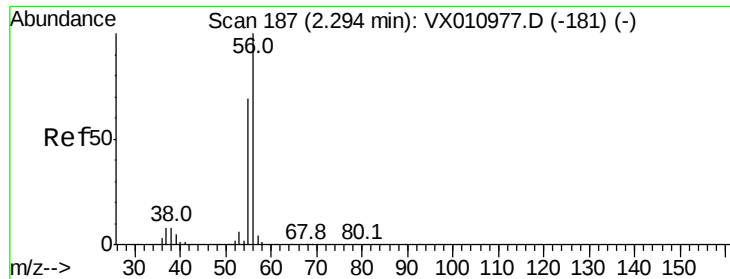
MMDadoda
7/25/2019 3:54:45 PM



#12
Methyl Acetate
Concen: 2.025 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Tgt Ion	Ratio	Lower	Upper
43	100		
74	28.6	19.8	29.6





#13

Acrolein

Concen: 14.193 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX011057.D

Acq: 24 Jul 2019 13:19

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion: 56 Resp: 4756

Ion Ratio Lower Upper

56 100

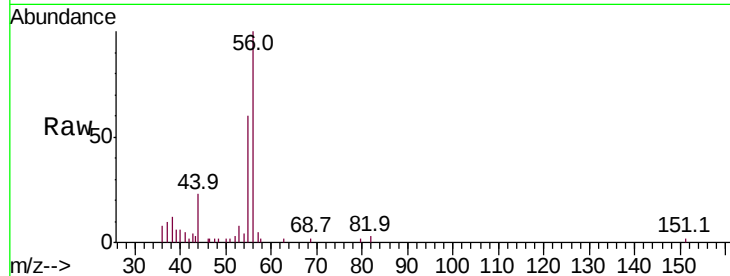
55 73.9 56.1 84.1

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Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.29

3000

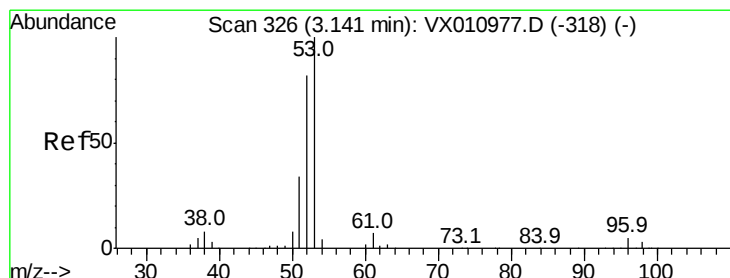
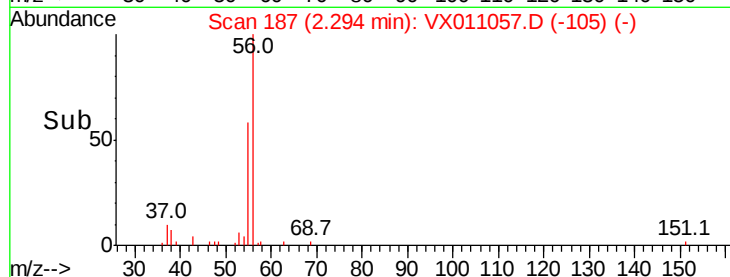
2000

1000

0

Time-->

2.25 2.30 2.35



#14

Acrylonitrile

Concen: 12.626 ug/l

RT: 3.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VX011057.D

Acq: 24 Jul 2019 13:19

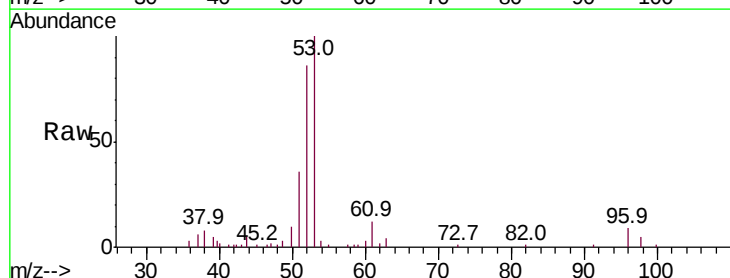
Tgt Ion: 53 Resp: 13810

Ion Ratio Lower Upper

53 100

52 83.3 41.1 123.4

51 33.4 17.8 53.3



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

8000

6000

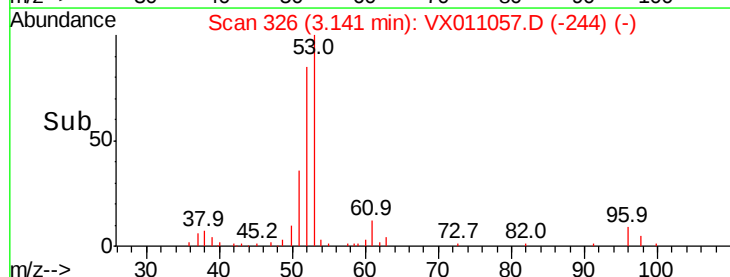
4000

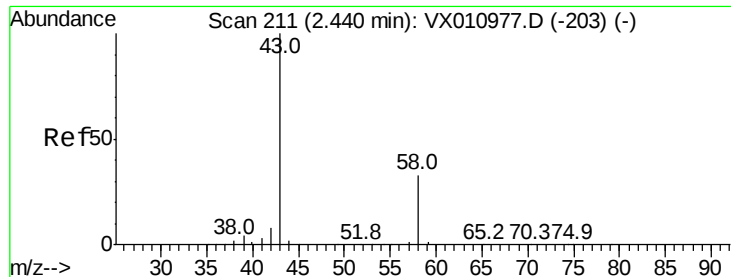
2000

0

Time-->

3.05 3.10 3.15 3.20 3.25





#15

Acetone

Concen: 15.553 ug/l

RT: 2.44 min Scan# 211

Delta R.T. 0.00 min

Lab File: VX011057.D

Acq: 24 Jul 2019 13:19

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion: 58 Resp: 4737

Ion Ratio Lower Upper

58 100

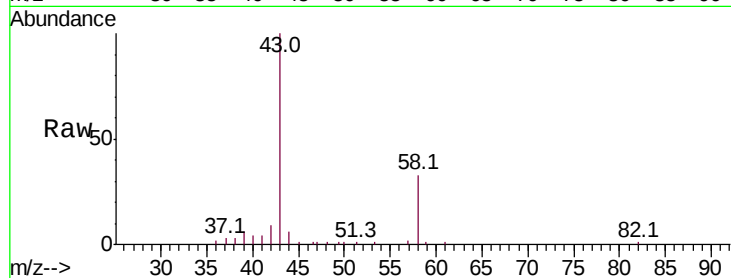
43 299.0 243.8 365.6

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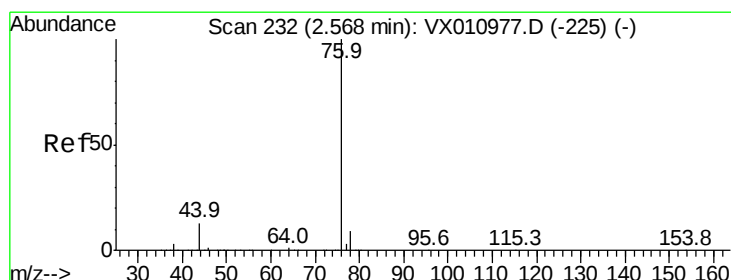
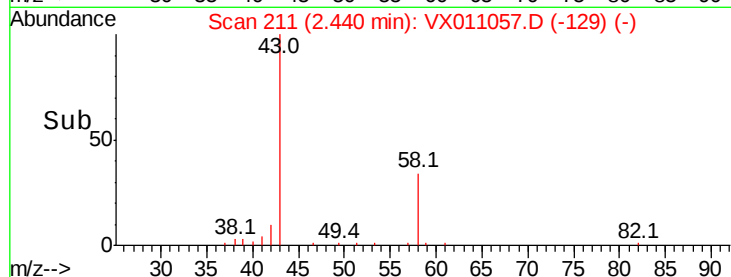
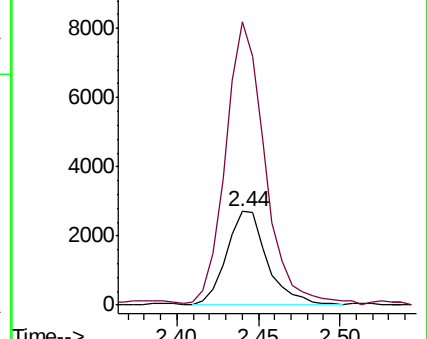
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Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#16

Carbon Disulfide

Concen: 2.182 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX011057.D

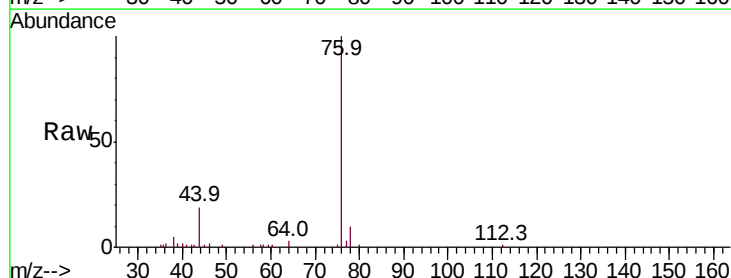
Acq: 24 Jul 2019 13:19

Tgt Ion: 76 Resp: 11156

Ion Ratio Lower Upper

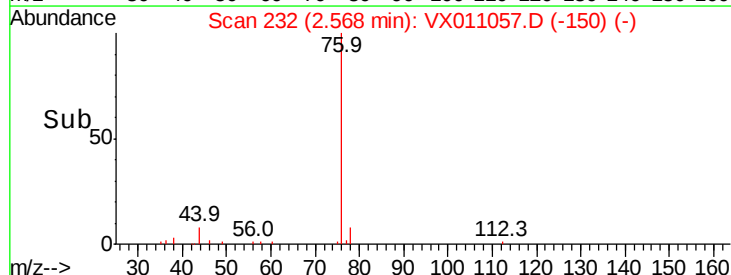
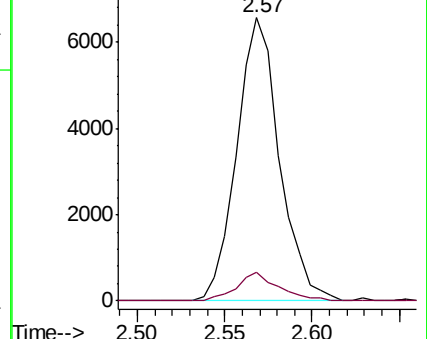
76 100

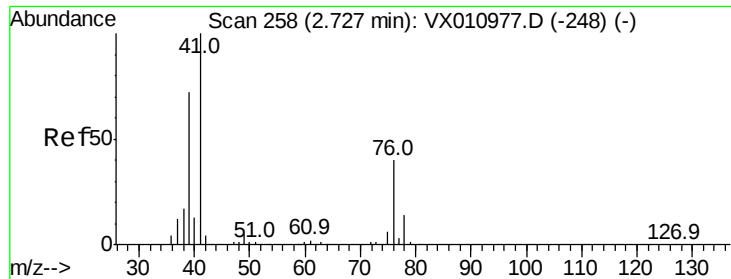
78 10.0 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0





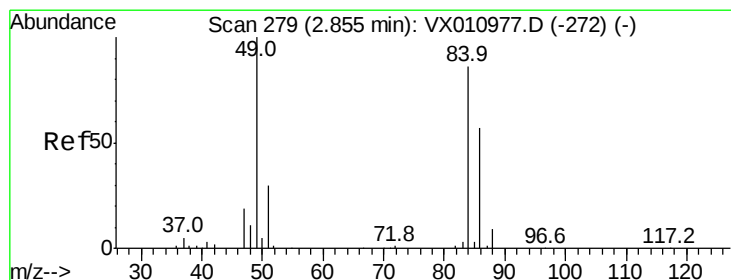
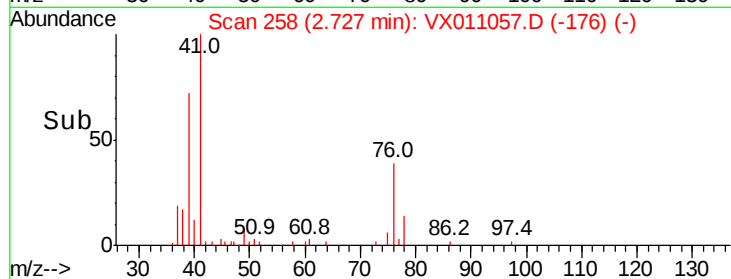
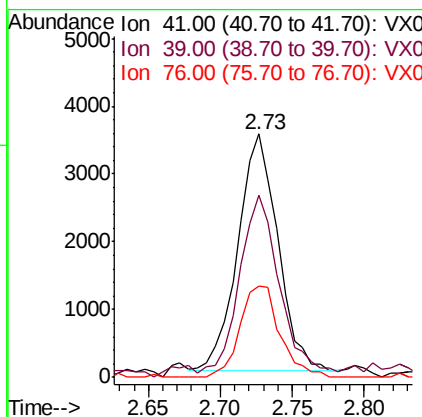
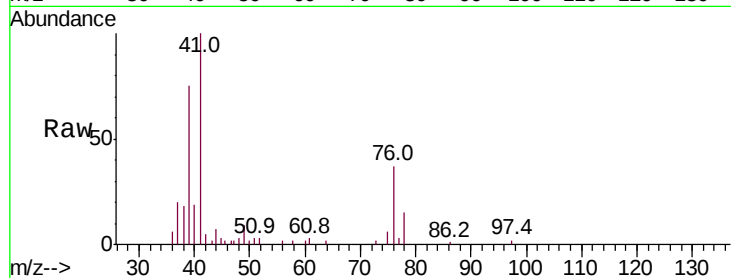
#17
Allvl chloride
Concen: 2.344 ug/l
RT: 2.73 min Scan# 258
Delta R.T. 0.00 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
41	100		
39	74.3	36.1	108.3
76	38.4	20.2	60.5

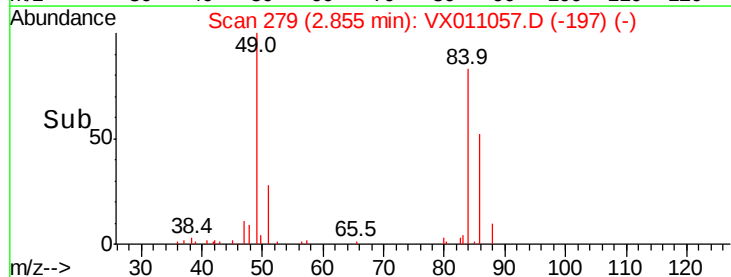
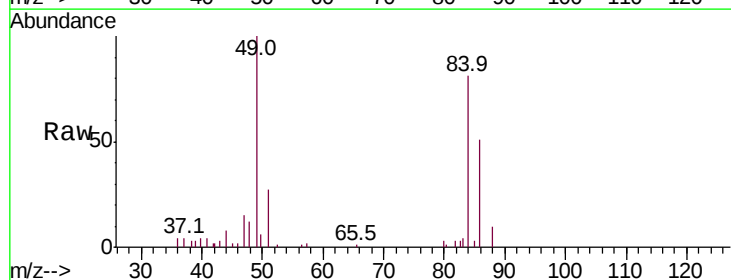
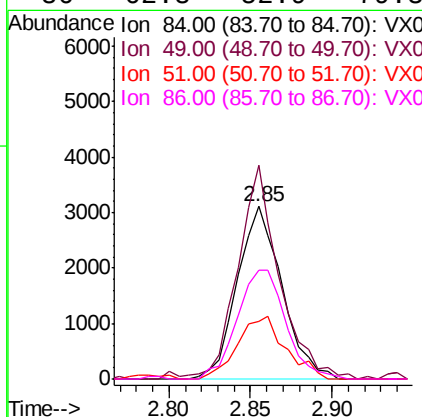
Manual Integrations
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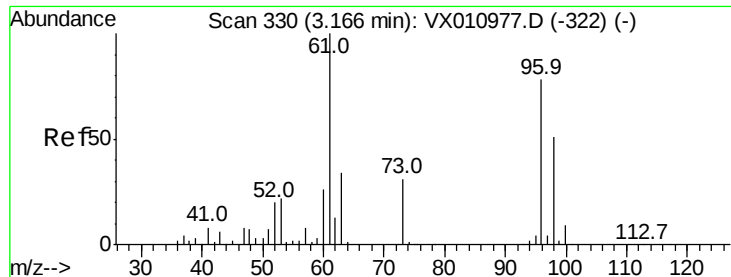
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#18
Methylene Chloride
Concen: 2.681 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Tgt Ion	Ratio	Lower	Upper
84	100		
49	121.6	93.2	139.8
51	33.6	28.6	42.8
86	62.8	52.9	79.3





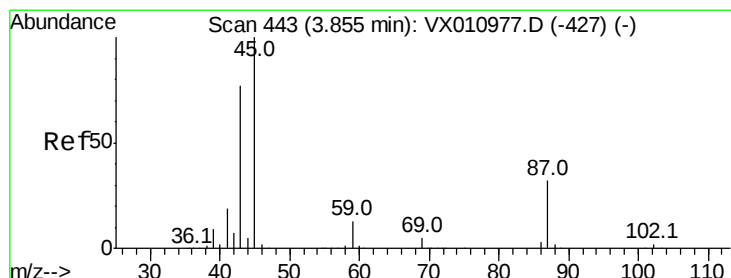
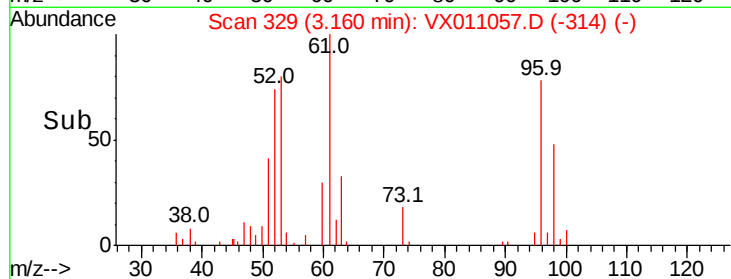
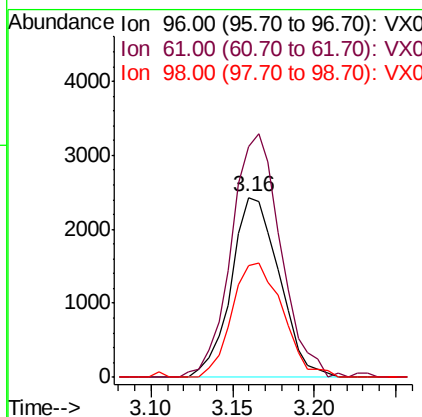
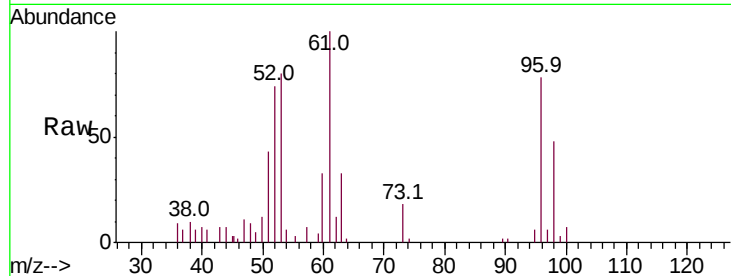
#19
trans-1,2-Dichloroethene
Concen: 2.379 ug/l
RT: 3.16 min Scan# 329
Delta R.T. -0.01 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion:	96	Resp:	5001
Ion	Ratio	Lower	Upper
96	100		
61	126.1	102.2	153.4
98	62.0	52.2	78.2

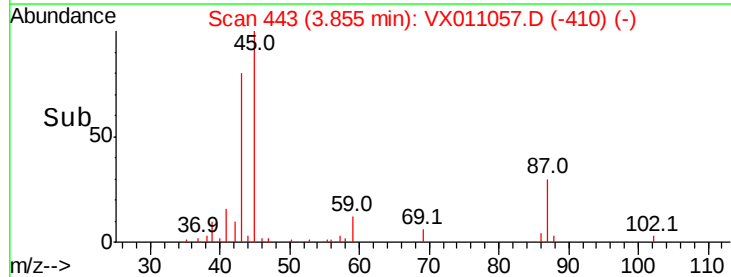
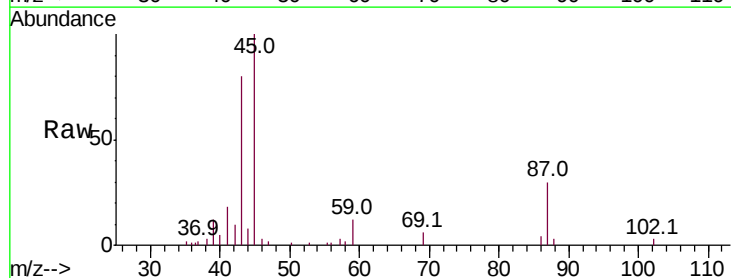
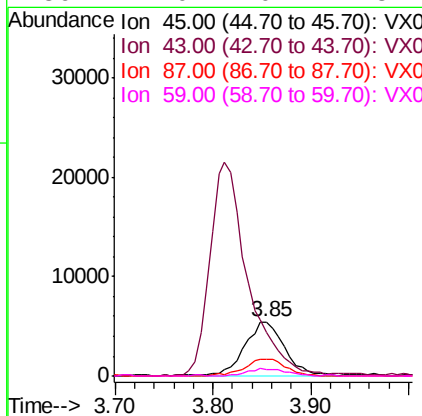
Manual Integrations
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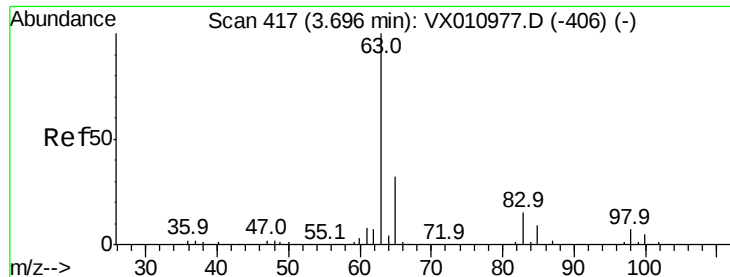
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#20
Diisopropyl ether
Concen: 2.556 ug/l
RT: 3.85 min Scan# 443
Delta R.T. 0.00 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Tgt Ion:	45	Resp:	15543
Ion	Ratio	Lower	Upper
45	100		
43	76.5	61.5	92.3
87	30.2	25.4	38.2
59	12.0	10.2	15.2





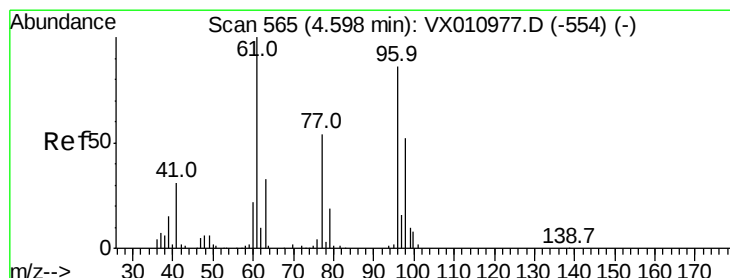
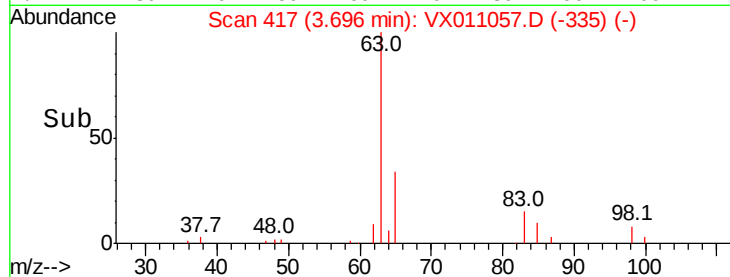
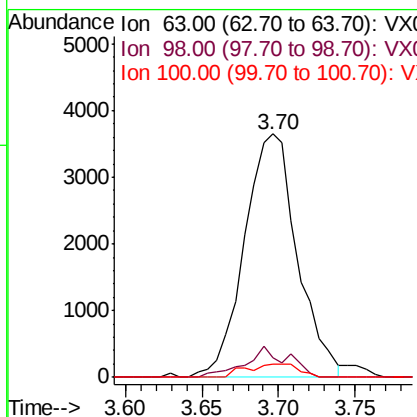
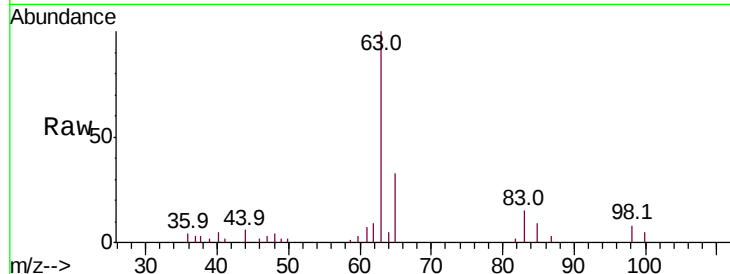
#21
 1,1-Dichloroethane
 Concen: 2.511 ug/l
 RT: 3.70 min Scan# 417
 Delta R.T. 0.00 min
 Lab File: VX011057.D
 Acq: 24 Jul 2019 13:19

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

Tot Ion:	63	Resp:	8789
Ion	Ratio	Lower	Upper
63	100		
98	8.1	3.8	11.2
100	5.5	2.5	7.4

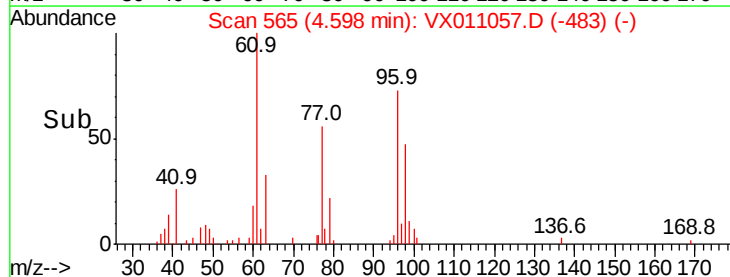
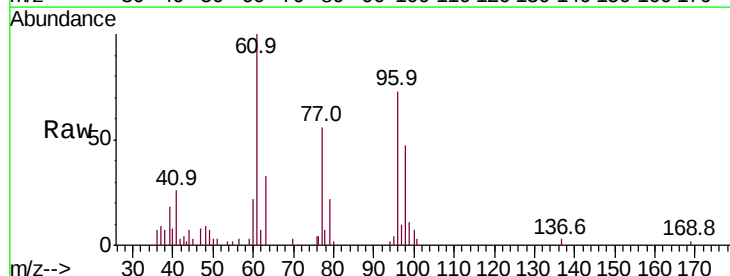
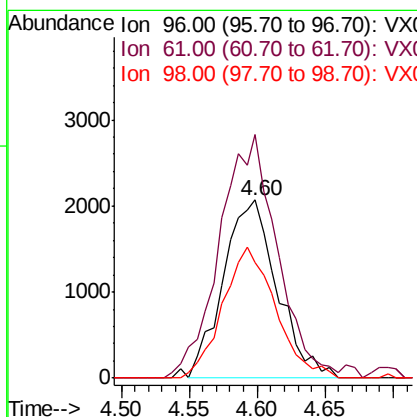
Manual Integrations
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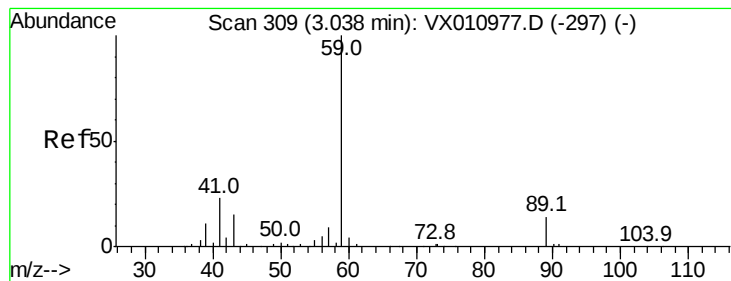
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 7/25/2019 3:54:45 PM



#22
 cis-1,2-Dichloroethene
 Concen: 2.367 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. 0.00 min
 Lab File: VX011057.D
 Acq: 24 Jul 2019 13:19

Tgt Ion:	96	Resp:	5723
Ion	Ratio	Lower	Upper
96	100		
61	145.7	102.9	154.3
98	72.2	50.9	76.3





#23

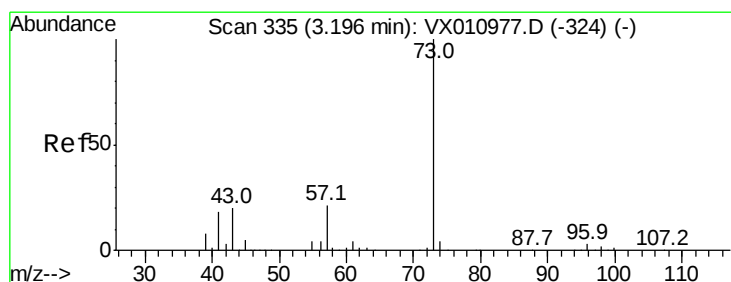
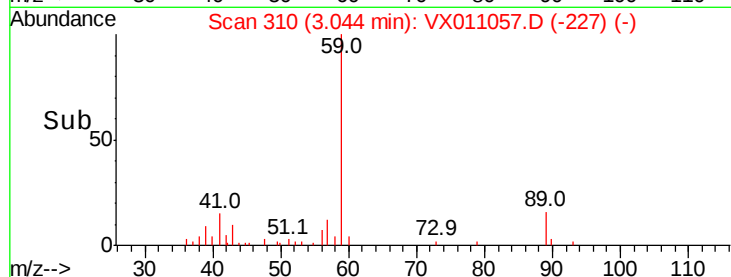
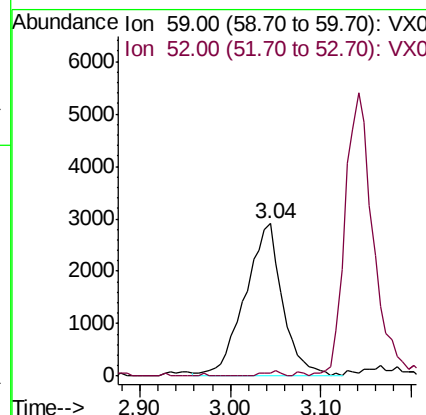
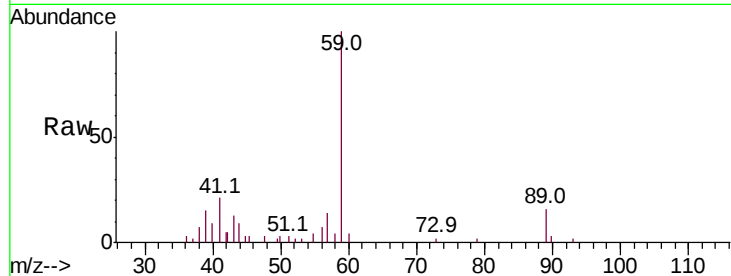
tert-Butyl Alcohol
 Concen: 14.686 ug/l
 RT: 3.04 min Scan# 310
 Delta R.T. 0.01 min
 Lab File: VX011057.D
 Acq: 24 Jul 2019 13:19

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

Tot Ion: 59 Resp: 8387
 Ion Ratio Lower Upper
 59 100
 52 1.0 0.2 0.4#

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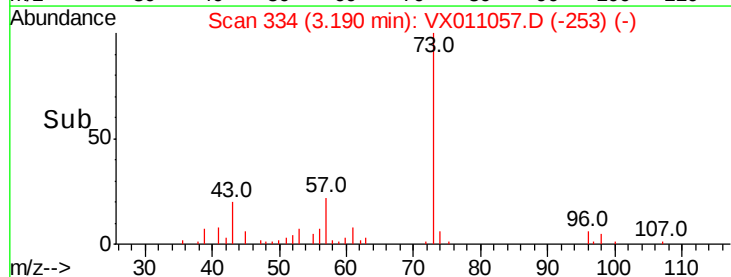
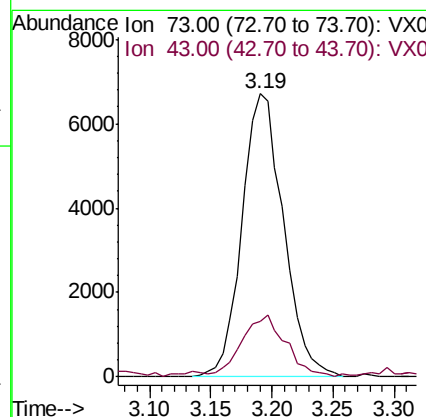
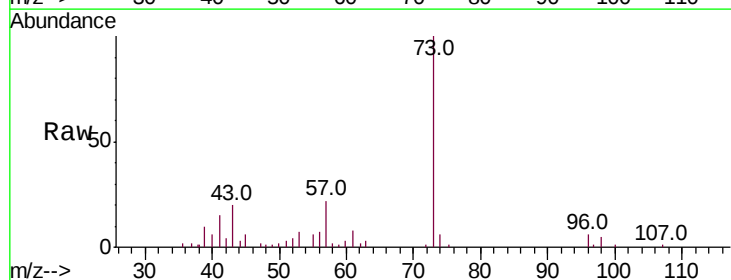
MMDadoda
 7/25/2019 3:54:45 PM

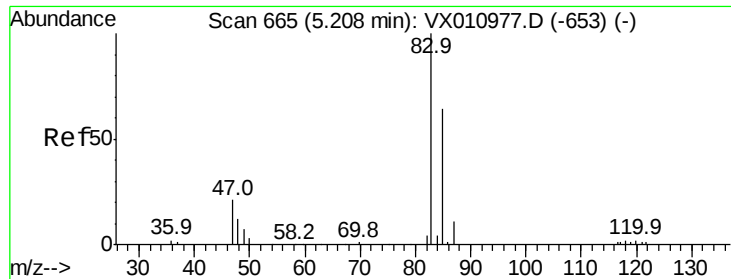


#24

Methyl tert-Butyl Ether
 Concen: 2.481 ug/l
 RT: 3.19 min Scan# 334
 Delta R.T. -0.01 min
 Lab File: VX011057.D
 Acq: 24 Jul 2019 13:19

Tgt Ion: 73 Resp: 15848
 Ion Ratio Lower Upper
 73 100
 43 23.1 15.8 23.6





#25

Chloroform

Concen: 2.673 ug/l

RT: 5.21 min Scan# 665

Delta R.T. 0.00 min

Lab File: VX011057.D

Acq: 24 Jul 2019 13:19

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion: 83 Resp: 10244

Ion Ratio Lower Upper

83 100

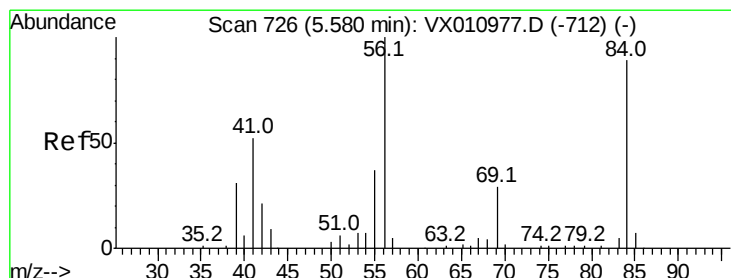
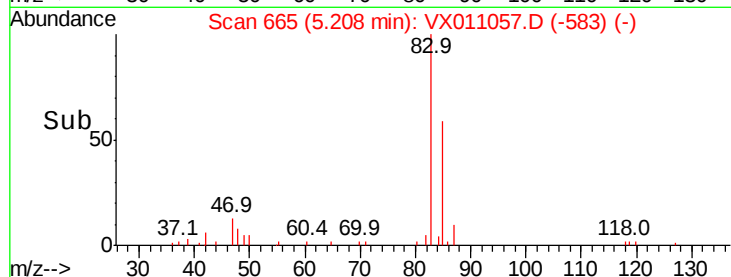
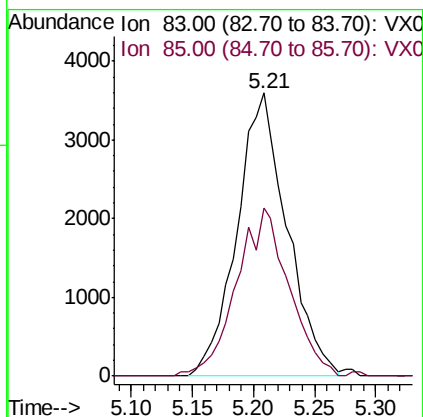
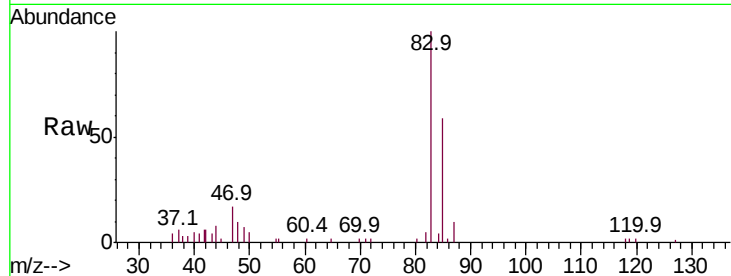
85 59.2 50.9 76.3

Manual Integrations

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#26

Cyclohexane

Concen: 2.477 ug/l

RT: 5.58 min Scan# 726

Delta R.T. 0.00 min

Lab File: VX011057.D

Acq: 24 Jul 2019 13:19

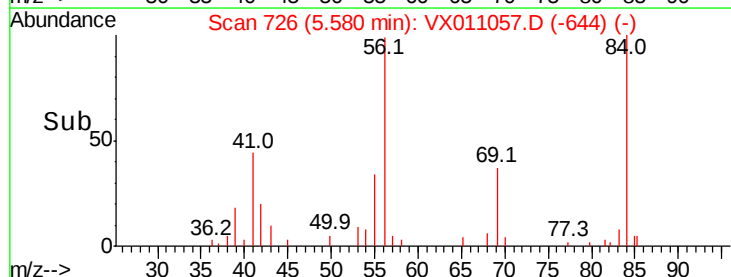
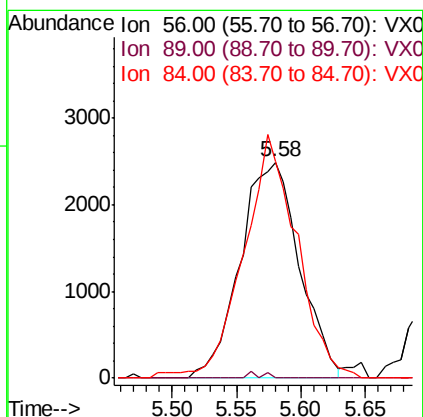
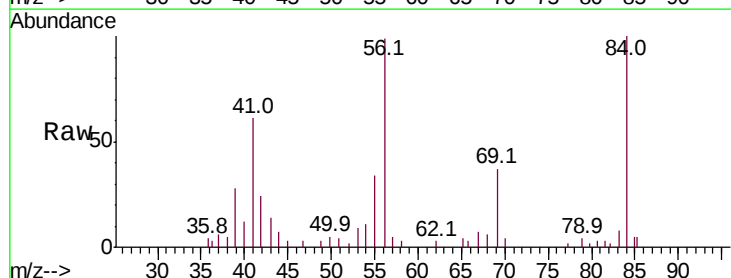
Tgt Ion: 56 Resp: 7933

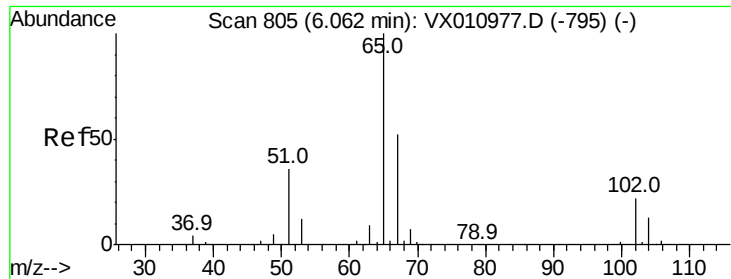
Ion Ratio Lower Upper

56 100

89 0.3 0.0 0.0#

84 99.7 73.0 109.4





#27

1,2-Dichloroethane-d4

Concen: 29.568 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.01 min

Lab File: VX011057.D

Acq: 24 Jul 2019 13:19

Tot Ion: 65 Resp: 71320

Ion Ratio Lower Upper

65 100

67 53.6 41.7 62.5

Instrument :

MSVOA_X

ClientSampleId :

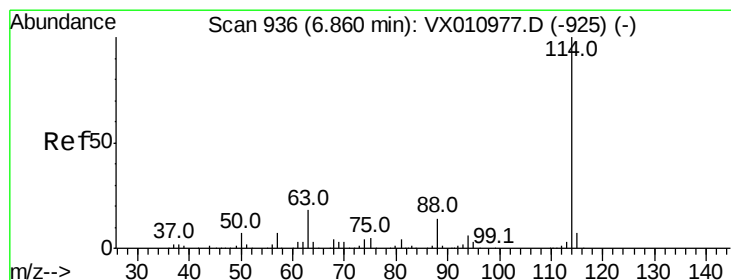
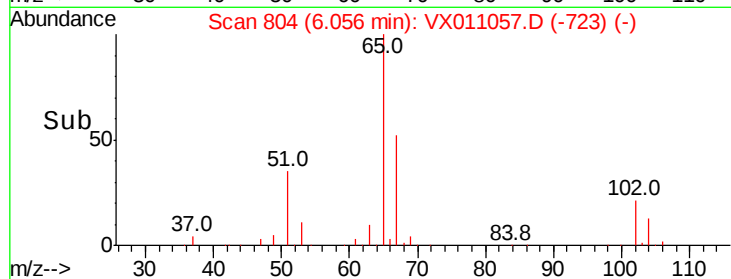
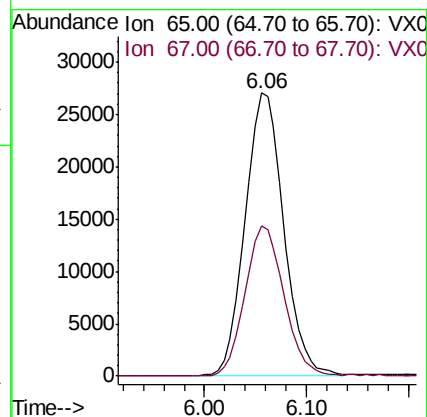
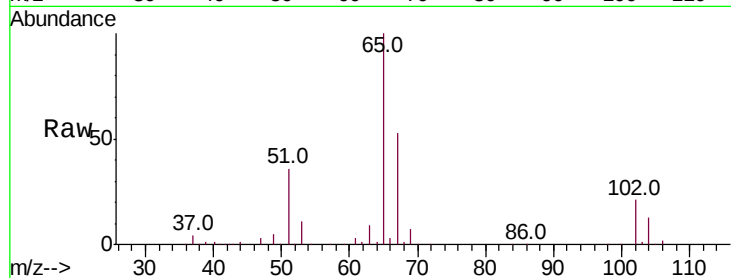
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#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. -0.01 min

Lab File: VX011057.D

Acq: 24 Jul 2019 13:19

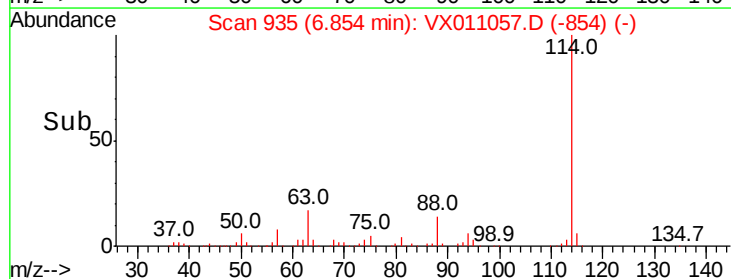
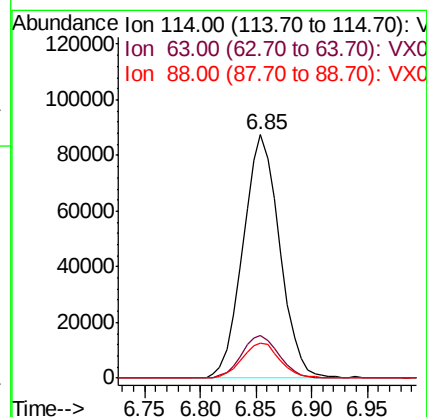
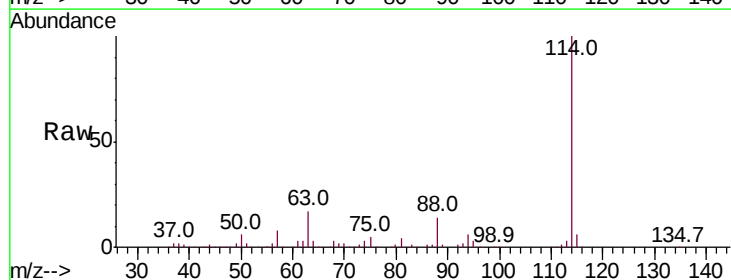
Tgt Ion:114 Resp: 200200

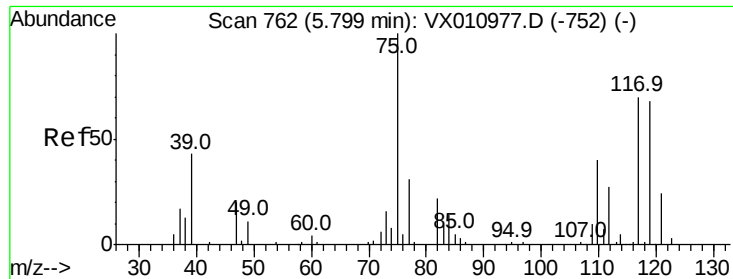
Ion Ratio Lower Upper

114 100

63 18.0 14.6 22.0

88 14.9 11.8 17.8





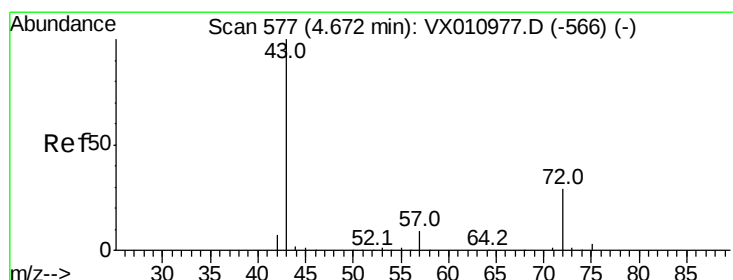
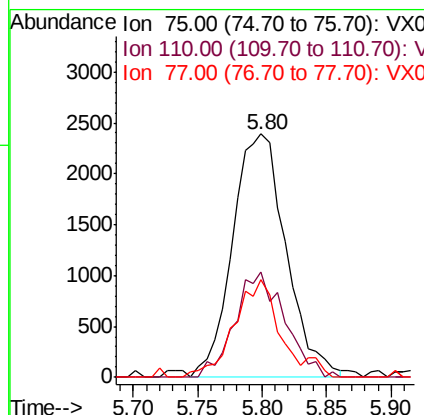
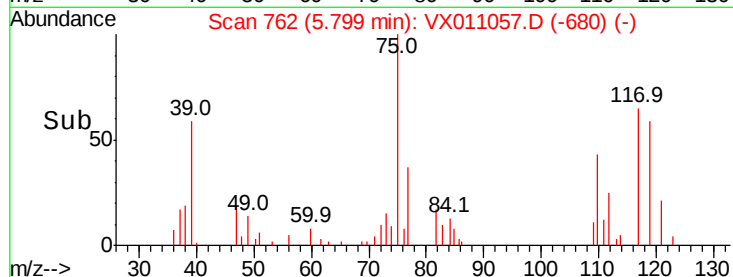
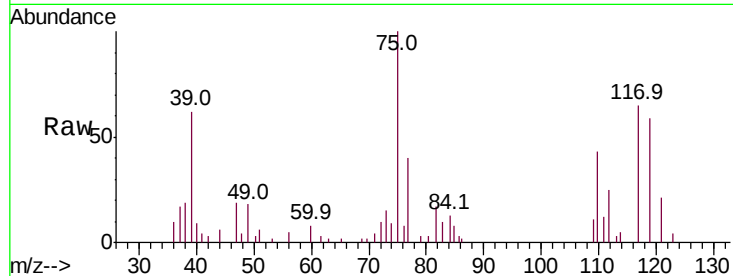
#29
 1,1-Dichloropropene
 Concen: 2.449 ug/l
 RT: 5.80 min Scan# 762
 Delta R.T. 0.00 min
 Lab File: VX011057.D
 Acq: 24 Jul 2019 13:19

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

Tot Ion	Ratio	Resp	Lower	Upper
75	100	6895		
110	40.1		0.0	79.8
77	32.6		0.0	62.2

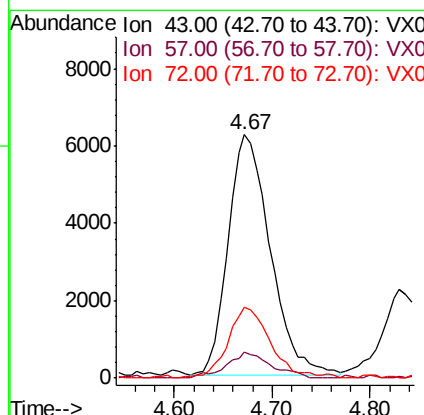
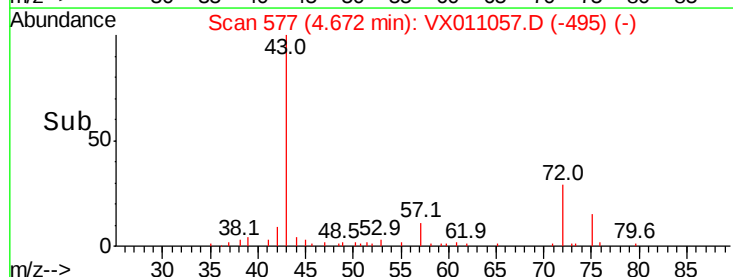
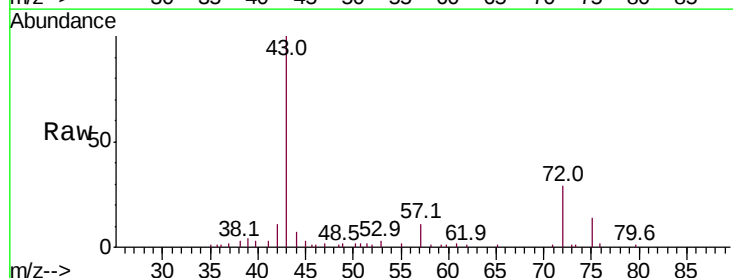
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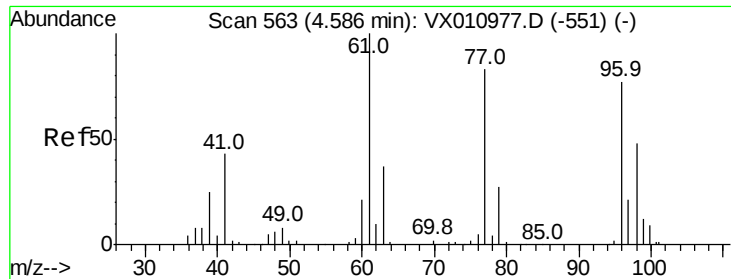
MMDadoda
 7/25/2019 3:54:45 PM



#30
 2-Butanone
 Concen: 12.333 ug/l
 RT: 4.67 min Scan# 577
 Delta R.T. 0.00 min
 Lab File: VX011057.D
 Acq: 24 Jul 2019 13:19

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	18743		
57	10.5		6.8	10.2#
72	28.7		23.2	34.8





#31

2,2-Dichloropropane

Concen: 2.931 ug/l

RT: 4.59 min Scan# 563

Delta R.T. 0.00 min

Lab File: VX011057.D

Acq: 24 Jul 2019 13:19

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion: 77 Resp: 7202

Ion Ratio Lower Upper

77 100

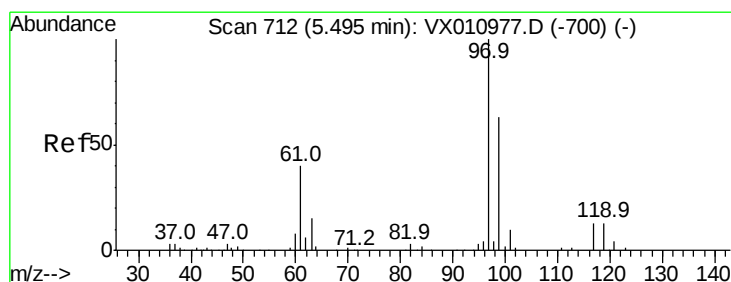
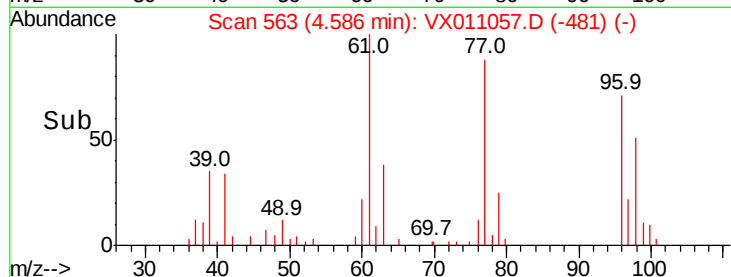
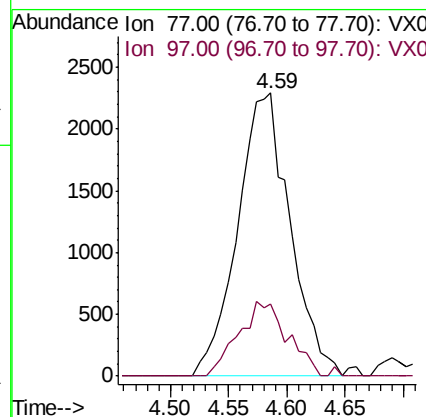
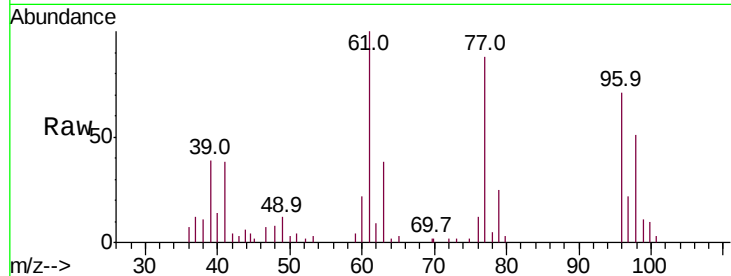
97 24.5 20.9 31.3

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#32

1,1,1-Trichloroethane

Concen: 2.189 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.00 min

Lab File: VX011057.D

Acq: 24 Jul 2019 13:19

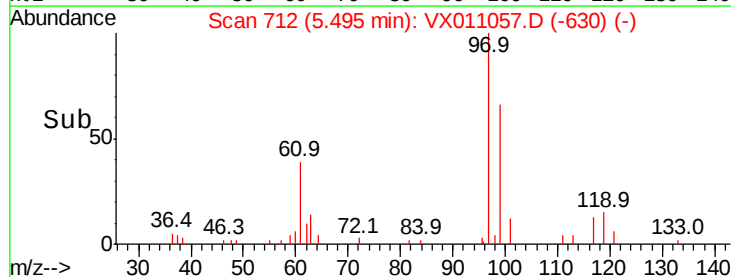
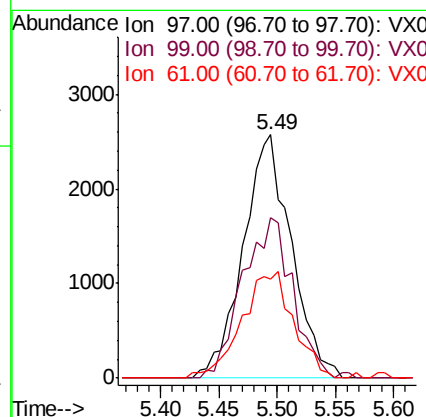
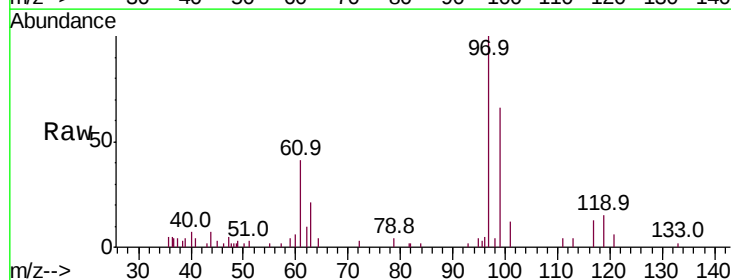
Tgt Ion: 97 Resp: 7432

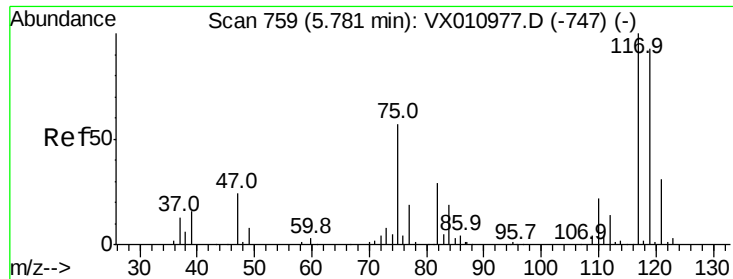
Ion Ratio Lower Upper

97 100

99 68.2 51.0 76.6

61 25.1 34.3 51.5#





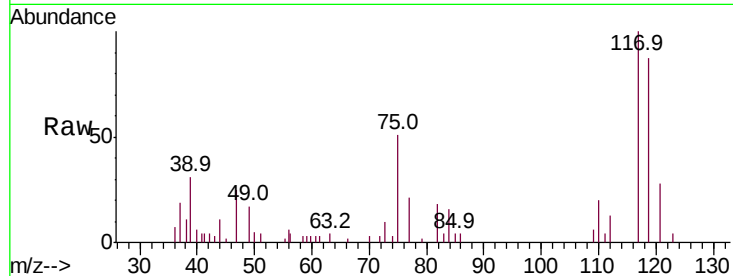
#33
Carbon Tetrachloride
Concen: 2.231 ug/l
RT: 5.78 min Scan# 758
Delta R.T. -0.01 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

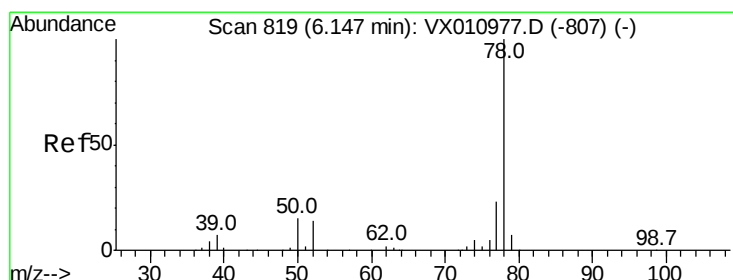
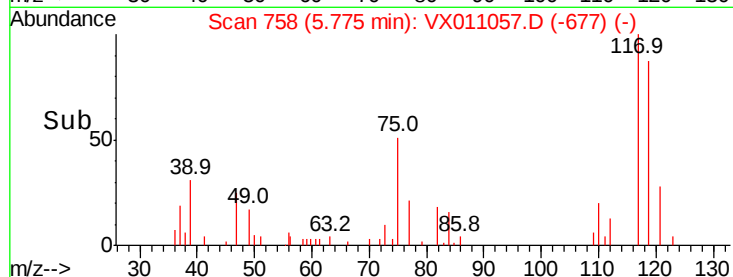
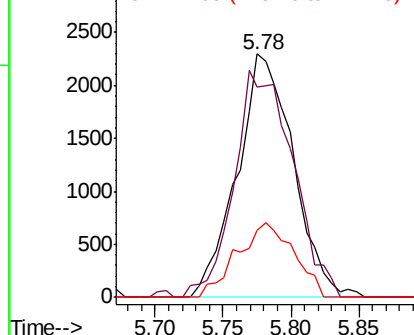
Tot Ion:117 Resp: 6587
Ion Ratio Lower Upper
117 100
119 86.5 74.3 111.5
121 27.5 24.9 37.3

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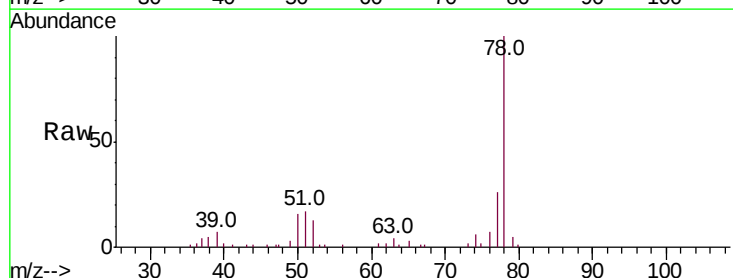


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

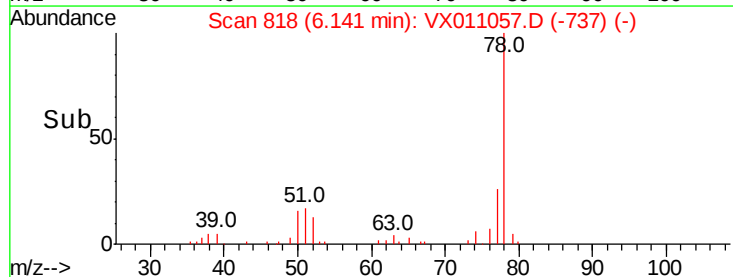
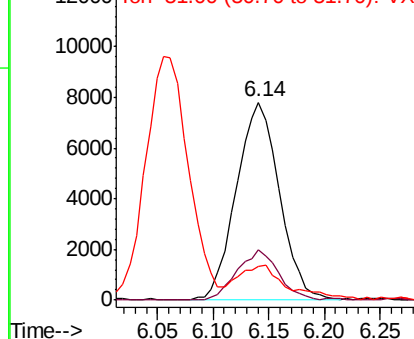


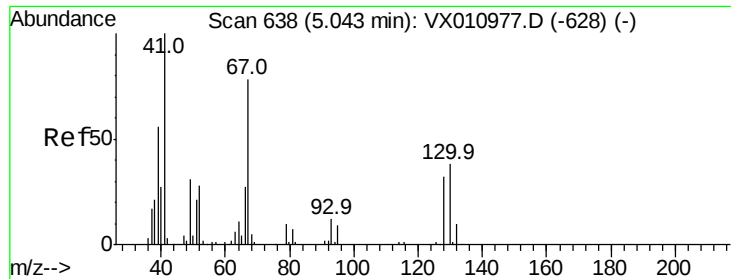
#34
Benzene
Concen: 2.490 ug/l
RT: 6.14 min Scan# 818
Delta R.T. -0.01 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Tgt Ion: 78 Resp: 21033
Ion Ratio Lower Upper
78 100
77 25.6 18.2 27.4
51 14.4 11.4 17.2



Abundance Ion 78.10 (77.80 to 78.80): VX0
Ion 77.00 (76.70 to 77.70): VX0
Ion 51.00 (50.70 to 51.70): VX0





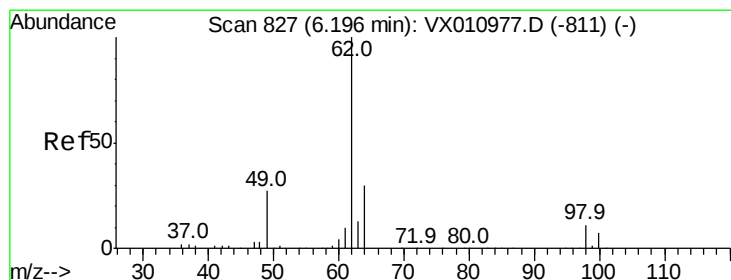
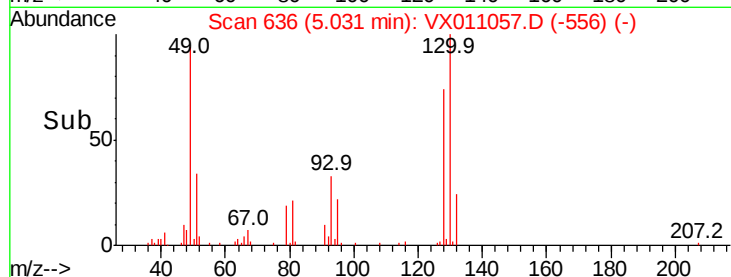
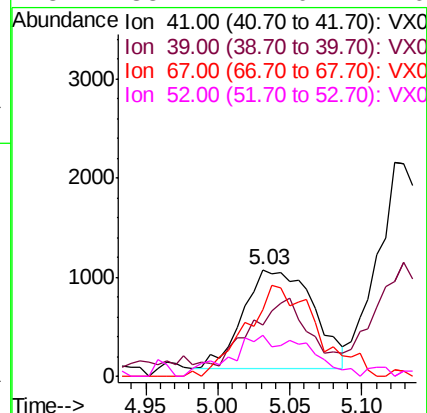
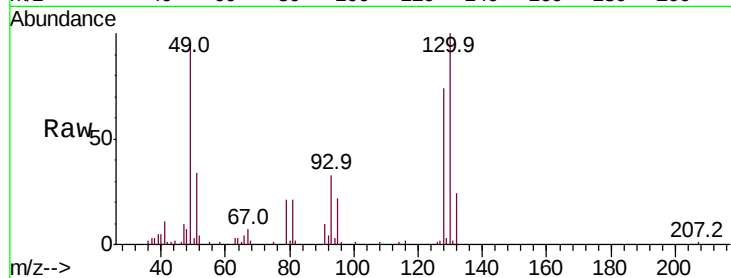
#35
Methacrylonitrile
Concen: 2.165 ug/l
RT: 5.03 min Scan# 636
Delta R.T. -0.01 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
41	100		
39	40.6	27.6	82.8
67	61.5	39.1	117.2
52	35.2	14.0	42.0

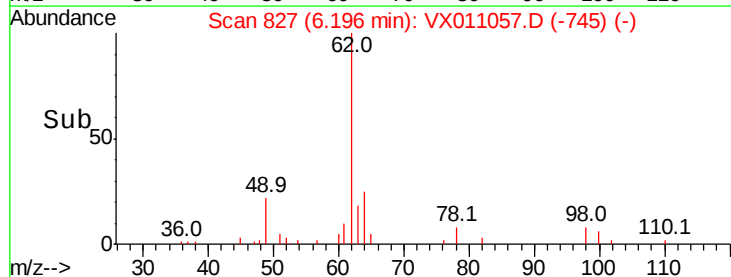
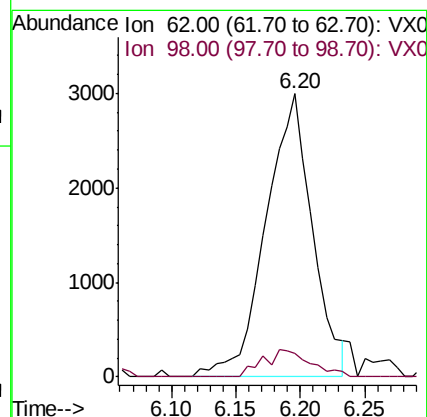
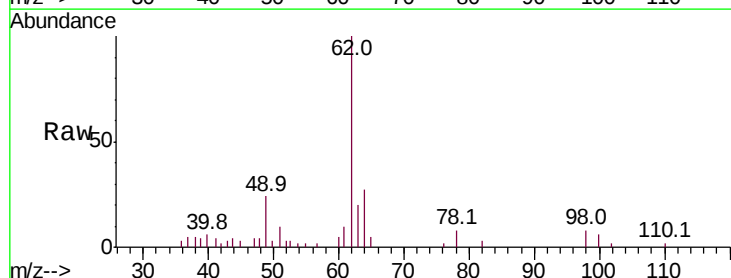
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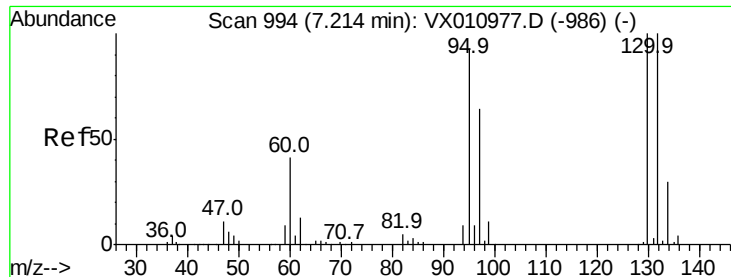
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#36
1,2-Dichloroethane
Concen: 2.486 ug/l
RT: 6.20 min Scan# 827
Delta R.T. 0.00 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.2	8.0	12.0





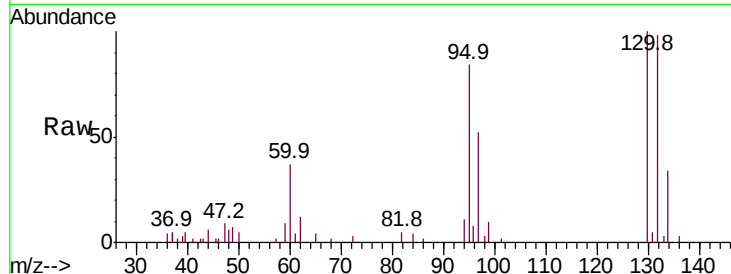
#37
 Trichloroethene
 Concen: 2.510 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. 0.00 min
 Lab File: VX011057.D
 Acq: 24 Jul 2019 13:19

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

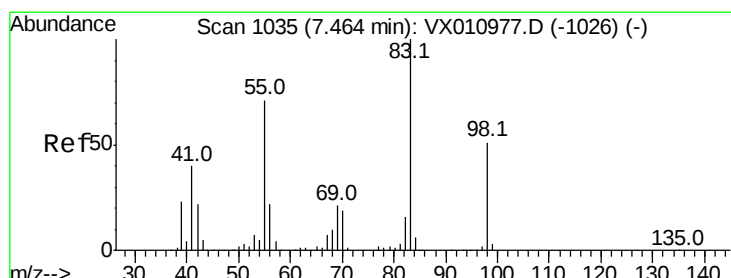
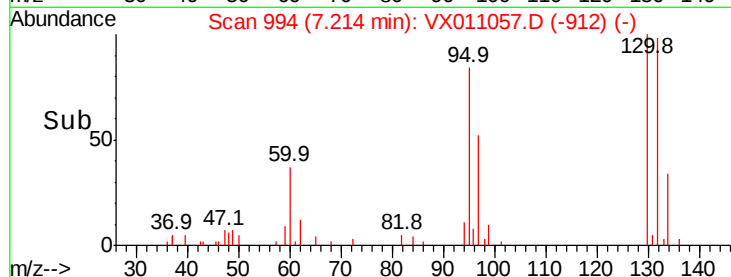
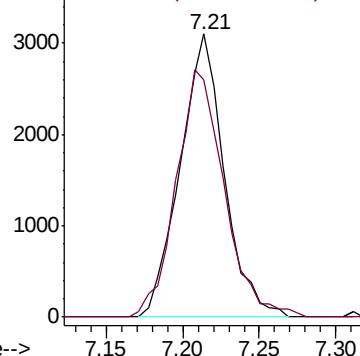
Tot Ion:130 Resp: 6205
 Ion Ratio Lower Upper
 130 100
 95 81.7 74.1 111.1

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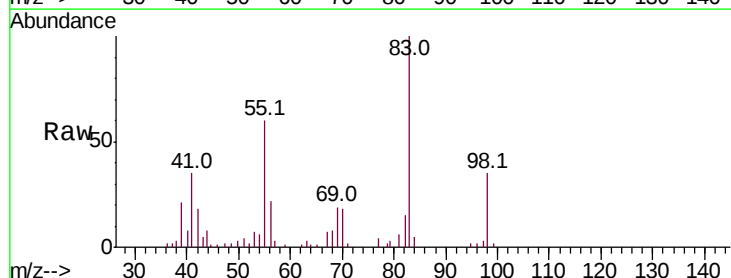


Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VX0

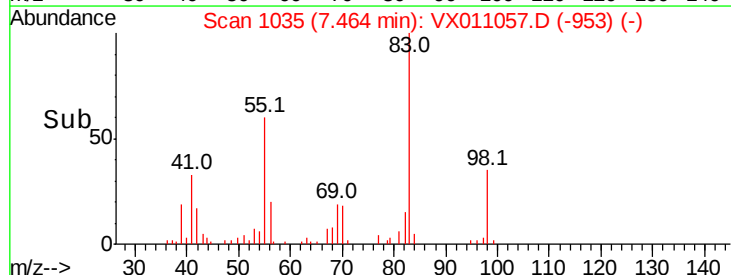
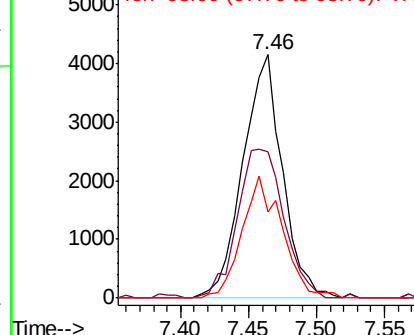


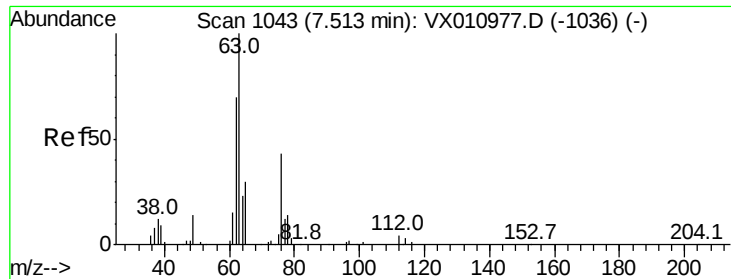
#38
 Methylcyclohexane
 Concen: 2.378 ug/l
 RT: 7.46 min Scan# 1035
 Delta R.T. 0.00 min
 Lab File: VX011057.D
 Acq: 24 Jul 2019 13:19

Tgt Ion: 83 Resp: 8450
 Ion Ratio Lower Upper
 83 100
 55 71.9 35.3 105.9
 98 51.0 24.0 72.0



Abundance Ion 83.00 (82.70 to 83.70): VX0
 Ion 55.00 (54.70 to 55.70): VX0
 Ion 98.00 (97.70 to 98.70): VX0





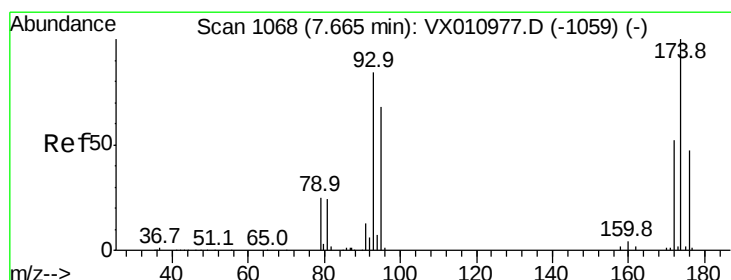
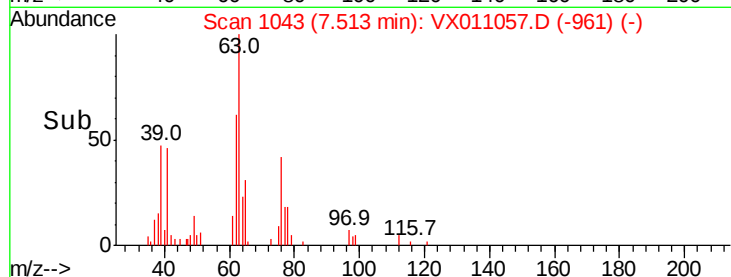
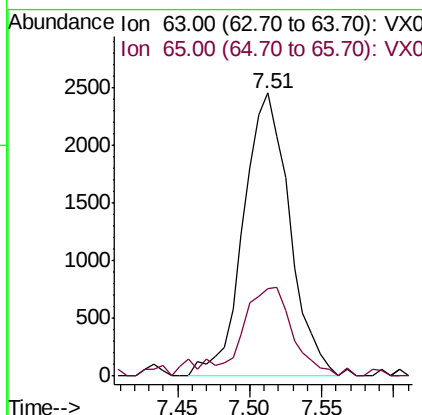
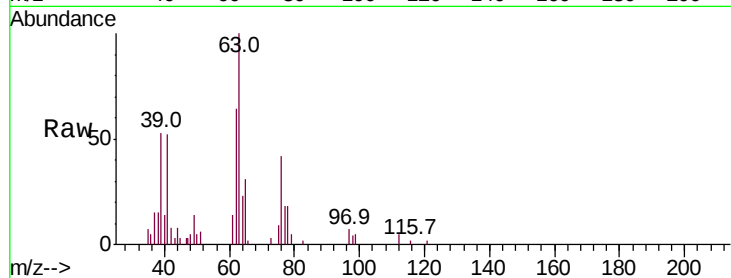
#39
 1,2-Dichloropropane
 Concen: 2.584 ug/l
 RT: 7.51 min Scan# 1043
 Delta R.T. 0.00 min
 Lab File: VX011057.D
 Acq: 24 Jul 2019 13:19

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

Tot Ion: 63 Resp: 5454
 Ion Ratio Lower Upper
 63 100
 65 31.1 25.6 38.4

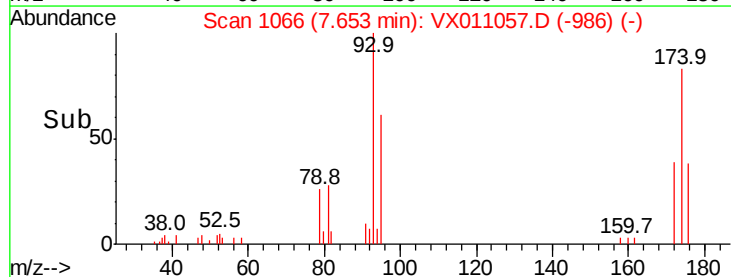
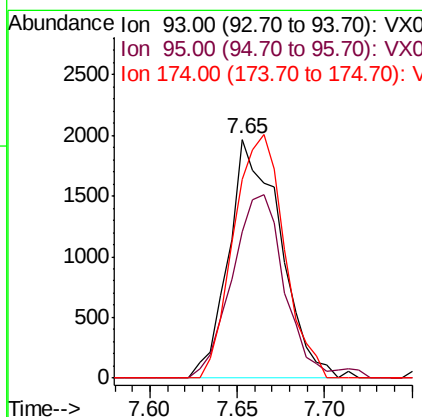
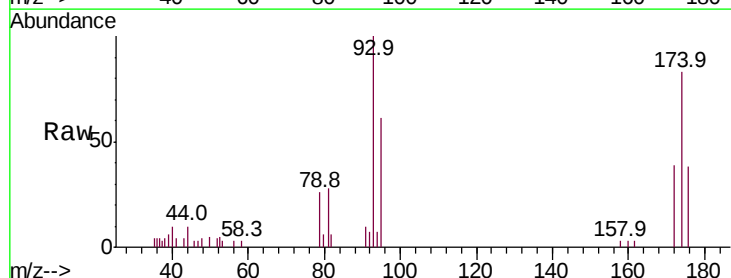
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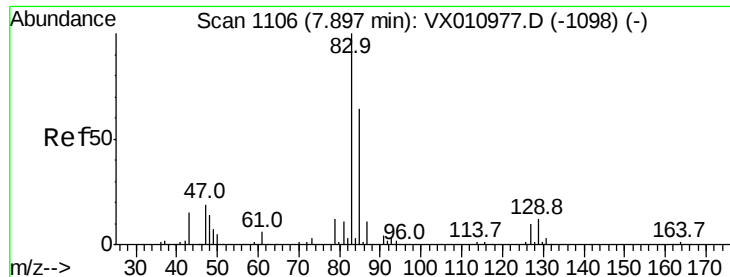
MMDadoda
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#40
 Dibromomethane
 Concen: 2.596 ug/l
 RT: 7.65 min Scan# 1066
 Delta R.T. -0.01 min
 Lab File: VX011057.D
 Acq: 24 Jul 2019 13:19

Tgt Ion: 93 Resp: 4031
 Ion Ratio Lower Upper
 93 100
 95 77.4 0.0 166.0
 174 100.1 0.0 229.2





#41

Bromodichloromethane

Concen: 2.182 ug/l

RT: 7.89 min Scan# 1105

Delta R.T. -0.01 min

Lab File: VX011057.D

Acq: 24 Jul 2019 13:19

Instrument :

MSVOA_X

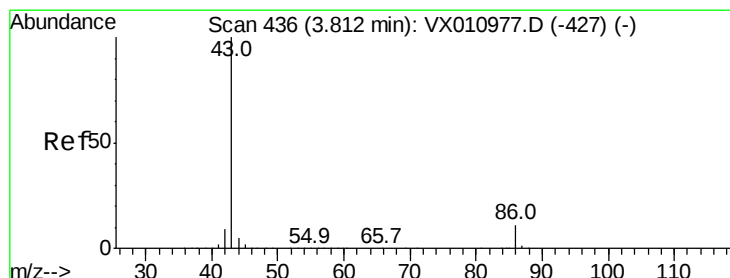
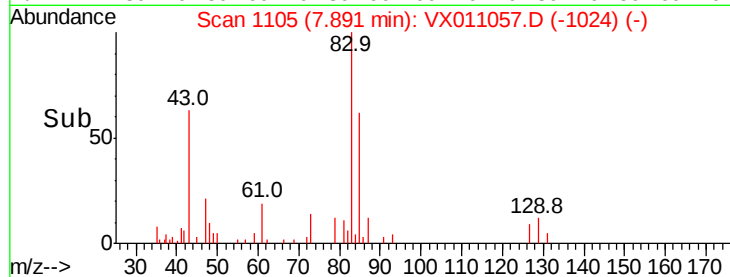
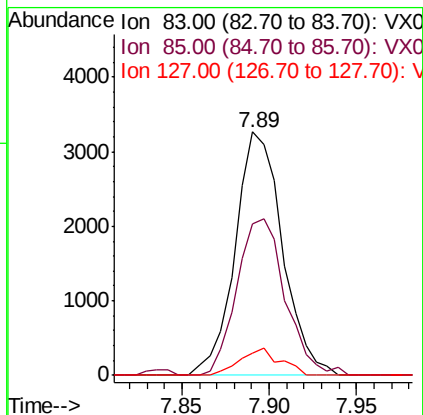
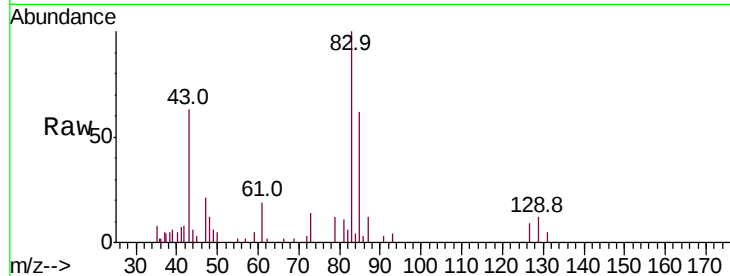
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion:	83	Resp:	6166
Ion	Ratio	Lower	Upper
83	100		
85	62.0	50.9	76.3
127	9.0	7.7	11.5

Manual Integrations
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7/25/2019 3:54:45 PM



#42

Vinyl Acetate

Concen: 11.552 ug/l

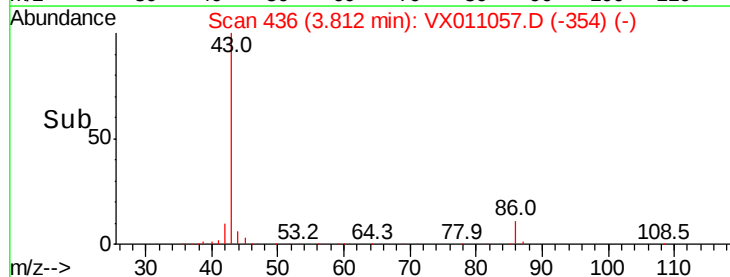
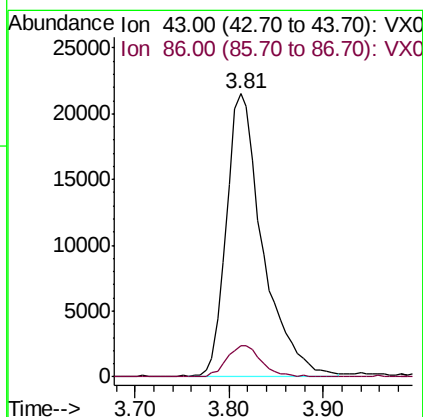
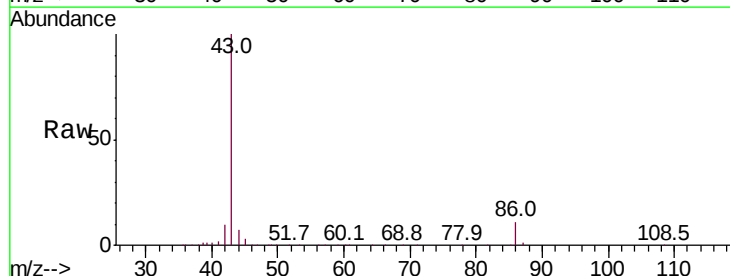
RT: 3.81 min Scan# 436

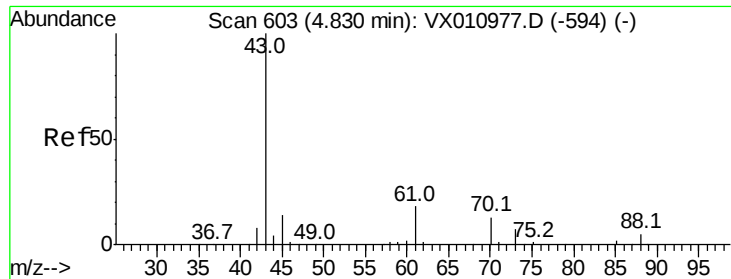
Delta R.T. 0.00 min

Lab File: VX011057.D

Acq: 24 Jul 2019 13:19

Tgt Ion:	43	Resp:	57843
Ion	Ratio	Lower	Upper
43	100		
86	10.5	8.2	12.2





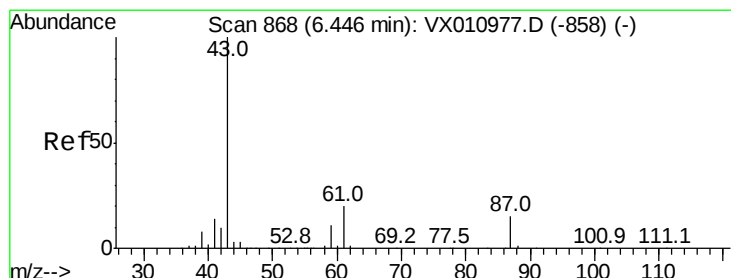
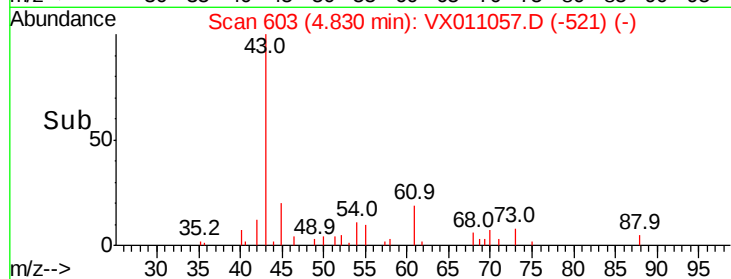
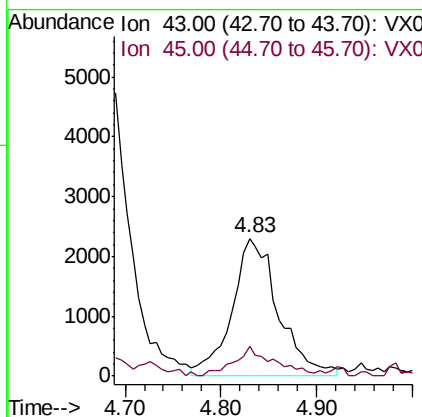
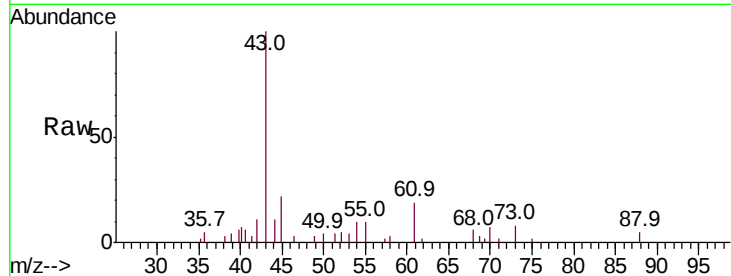
#43
Ethyl Acetate
Concen: 2.666 ug/l m
RT: 4.83 min Scan# 603
Delta R.T. 0.00 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 43 Resp: 7776
Ion Ratio Lower Upper
43 100
45 0.4 12.1 18.1#

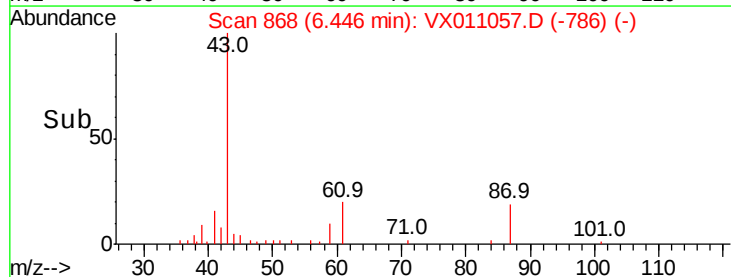
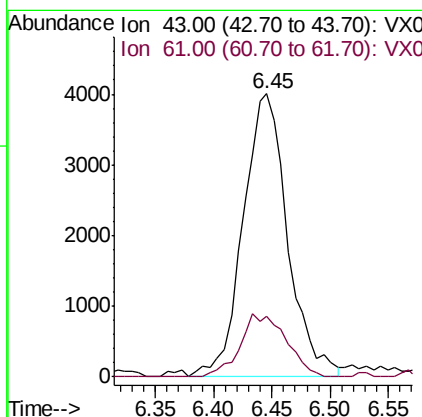
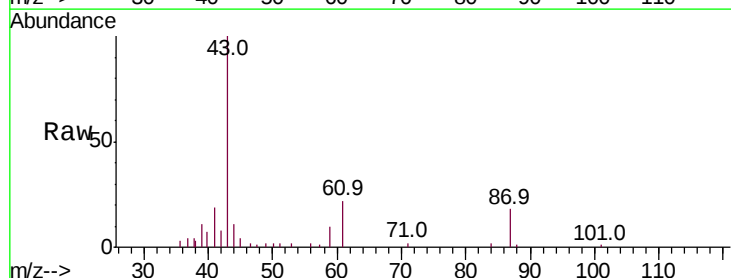
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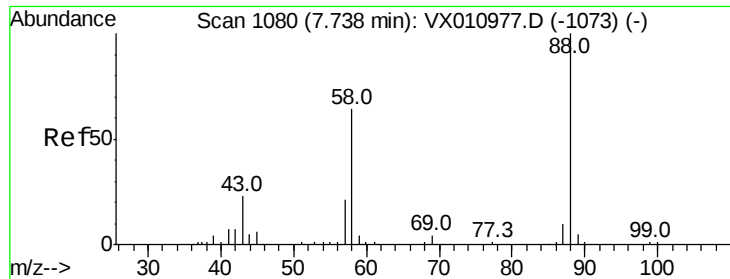
MMDadoda
7/25/2019 3:54:45 PM



#44
Isopropyl Acetate
Concen: 2.246 ug/l
RT: 6.45 min Scan# 868
Delta R.T. 0.00 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Tgt Ion: 43 Resp: 10672
Ion Ratio Lower Upper
43 100
61 23.0 16.7 25.1





#45

1,4-Dioxane

Concen: 50.336 ug/l

RT: 7.74 min Scan# 1080

Delta R.T. 0.00 min

Lab File: VX011057.D

Acq: 24 Jul 2019 13:19

Instrument :

MSVOA_X

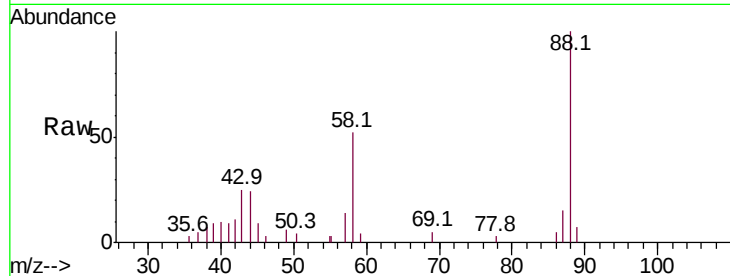
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

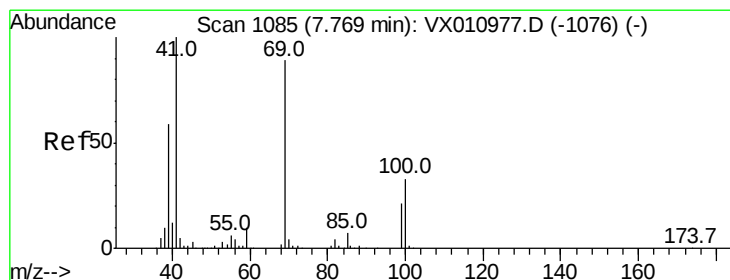
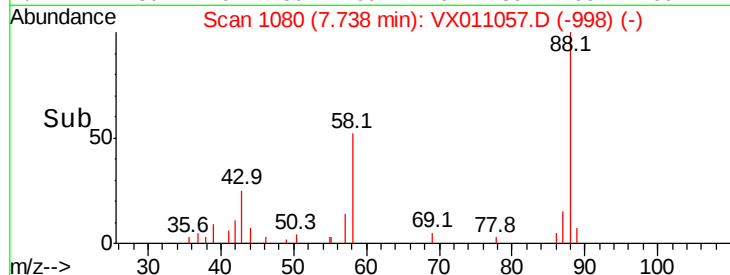
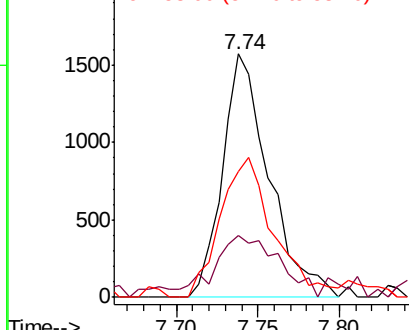
Tot Ion:	88	Resp:	3113
Ion	Ratio	Lower	Upper
88	100		
43	22.9	21.6	32.4
58	63.5	52.2	78.2

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Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0



#46

Methyl methacrylate

Concen: 2.081 ug/l

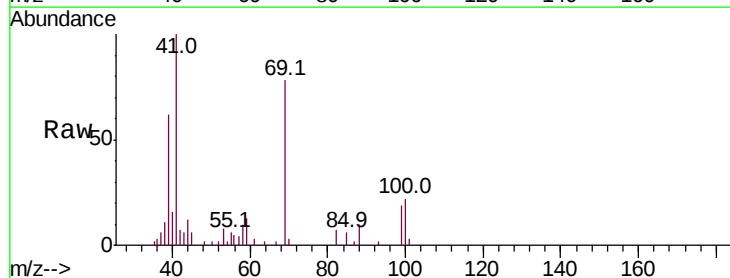
RT: 7.77 min Scan# 1085

Delta R.T. 0.00 min

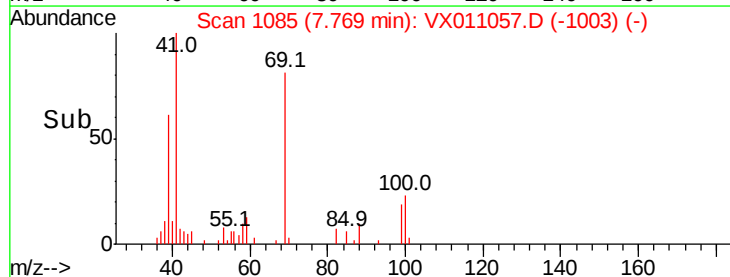
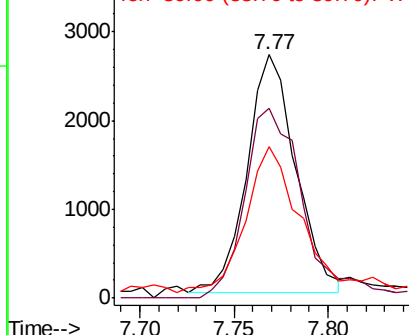
Lab File: VX011057.D

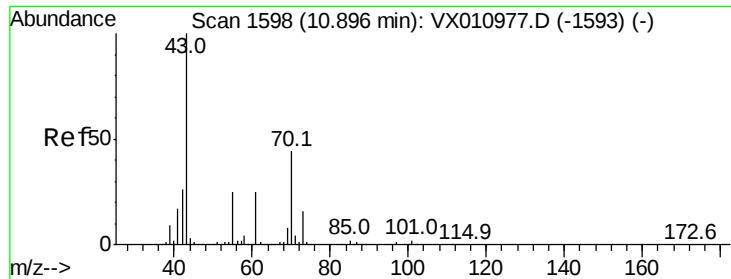
Acq: 24 Jul 2019 13:19

Tgt Ion:	41	Resp:	4799
Ion	Ratio	Lower	Upper
41	100		
69	79.9	44.7	134.1
39	59.6	29.4	88.2



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0





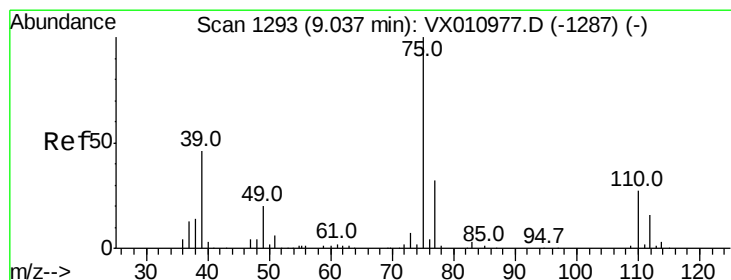
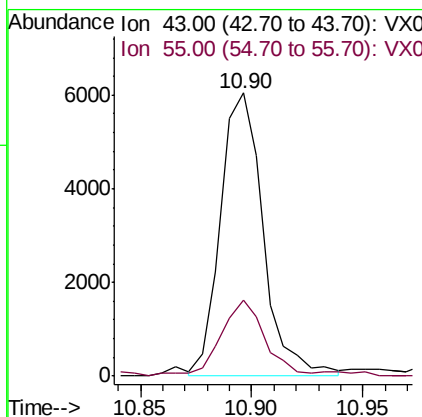
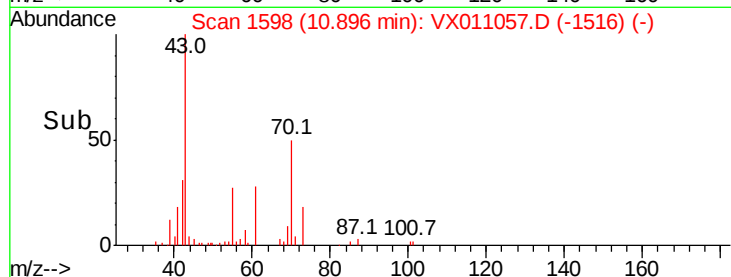
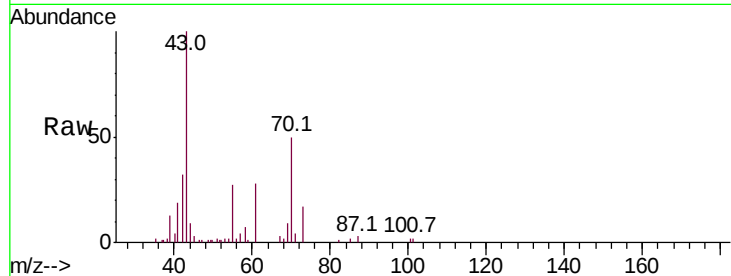
#47
n-amvl Acetate
Concen: 1.894 ug/l
RT: 10.90 min Scan# 1598
Delta R.T. 0.00 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 43 Resp: 8070
Ion Ratio Lower Upper
43 100
55 25.1 19.6 29.4

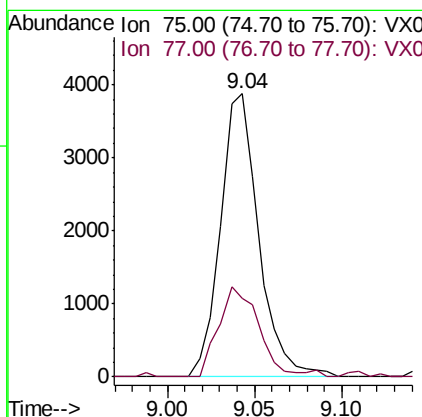
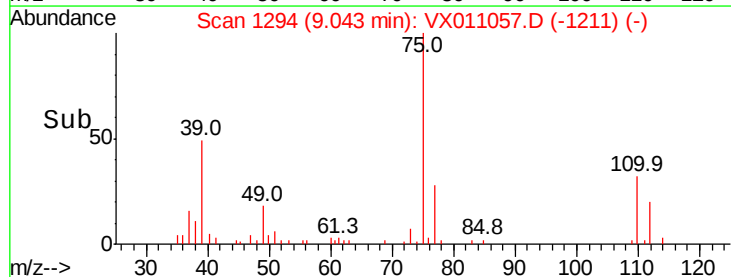
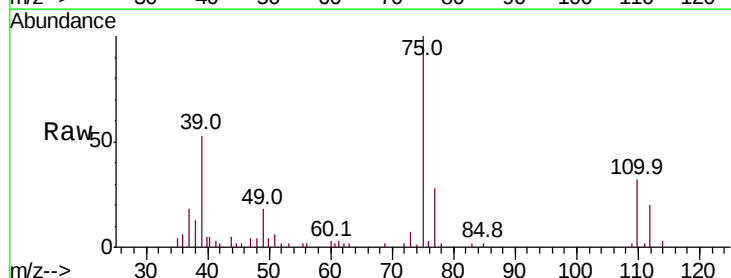
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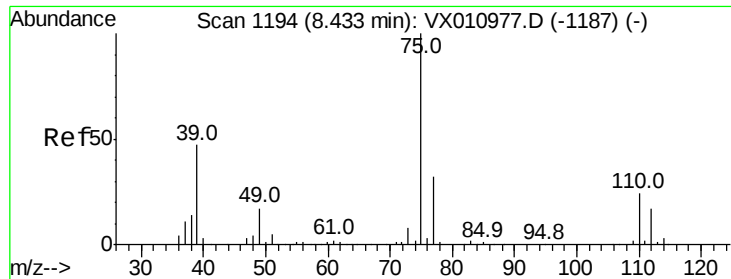
MMDadoda
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#48
t-1,3-Dichloropropene
Concen: 1.987 ug/l
RT: 9.04 min Scan# 1294
Delta R.T. 0.01 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Tgt Ion: 75 Resp: 5918
Ion Ratio Lower Upper
75 100
77 27.7 25.7 38.5





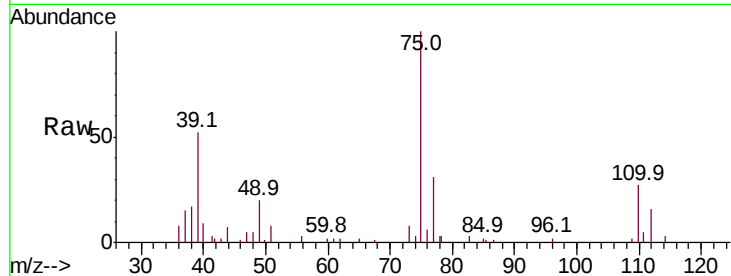
#49
 cis-1,3-Dichloropropene
 Concen: 2.094 ug/l
 RT: 8.43 min Scan# 1194
 Delta R.T. 0.00 min
 Lab File: VX011057.D
 Acq: 24 Jul 2019 13:19

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.3	37.9
39	49.7	37.8	56.6

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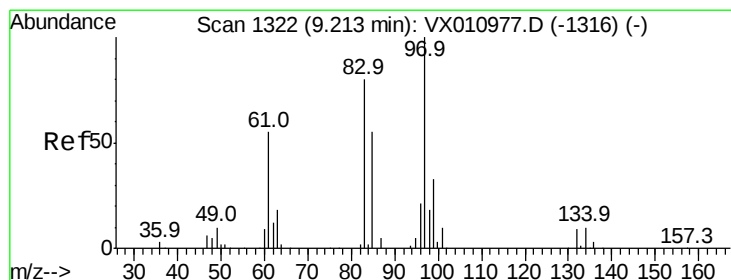
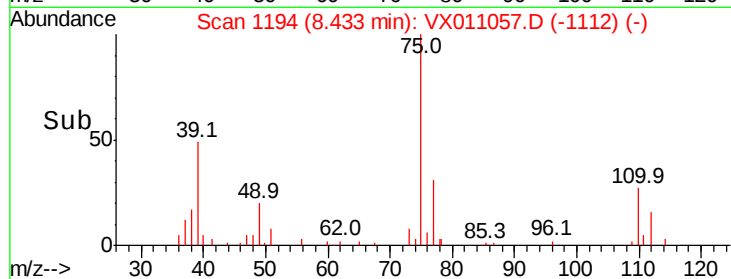
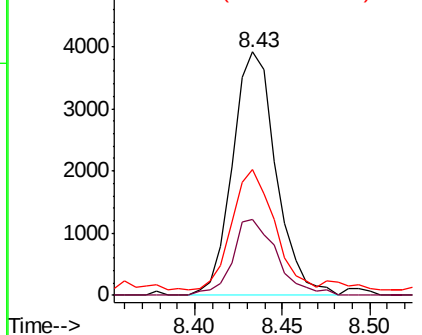


Abundance

Ion 75.00 (74.70 to 75.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#50
 1,1,2-Trichloroethane
 Concen: 2.556 ug/l
 RT: 9.21 min Scan# 1322
 Delta R.T. 0.00 min
 Lab File: VX011057.D
 Acq: 24 Jul 2019 13:19

Tgt Ion	Ratio	Lower	Upper
97	100		
83	85.5	63.9	95.9
85	56.7	43.4	65.2
99	61.7	50.9	76.3

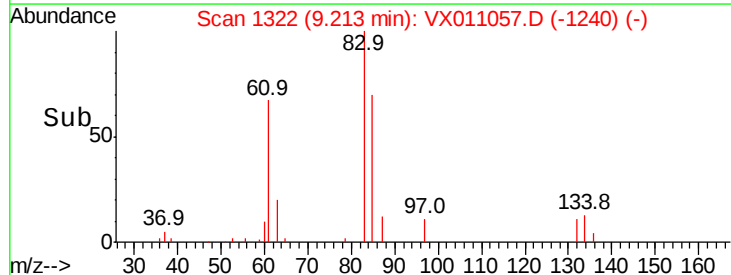
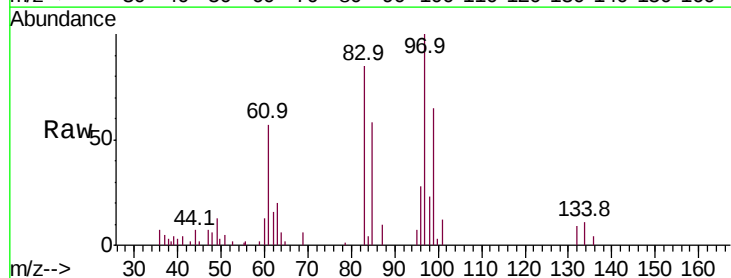
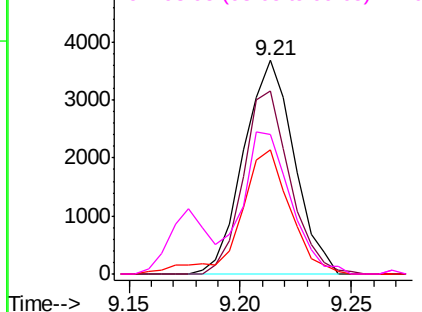
Abundance

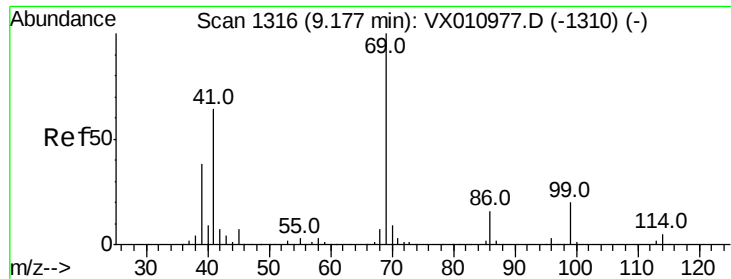
Ion 97.00 (96.70 to 97.70): VX0

Ion 82.95 (82.65 to 83.65): VX0

Ion 84.95 (84.65 to 85.65): VX0

Ion 98.95 (98.65 to 99.65): VX0





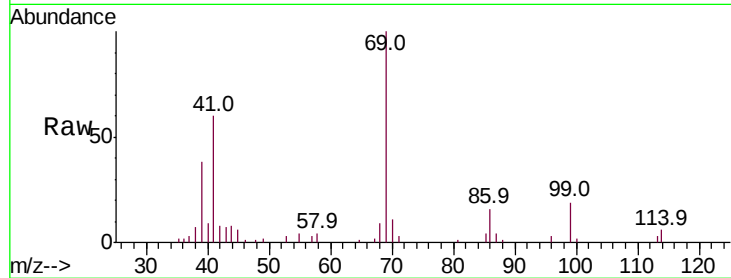
#51
Ethyl methacrylate
Concen: 2.121 ug/l
RT: 9.17 min Scan# 1315
Delta R.T. -0.01 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

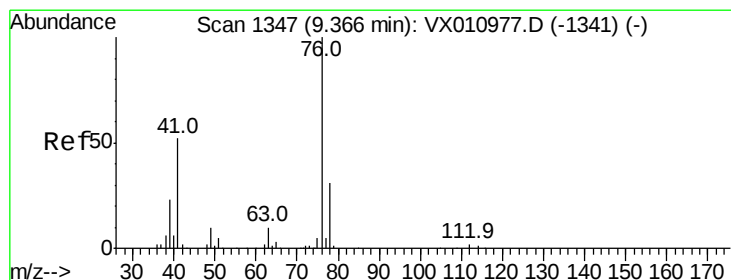
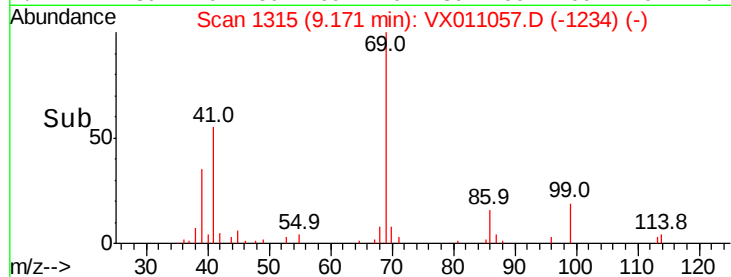
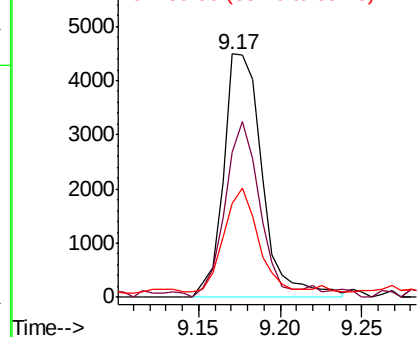
Tot Ion	Ratio	Lower	Upper
69	100		
41	59.5	32.1	96.3
39	36.3	19.1	57.3

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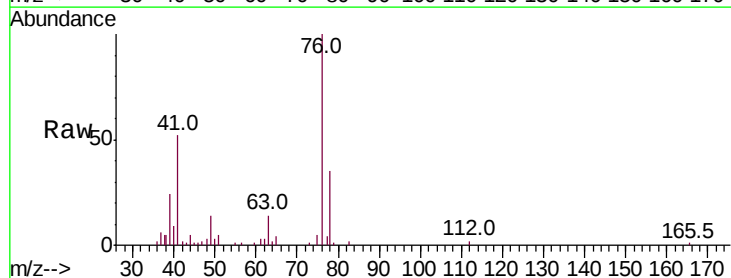


Abundance Ion 69.00 (68.70 to 69.70): VX0
Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

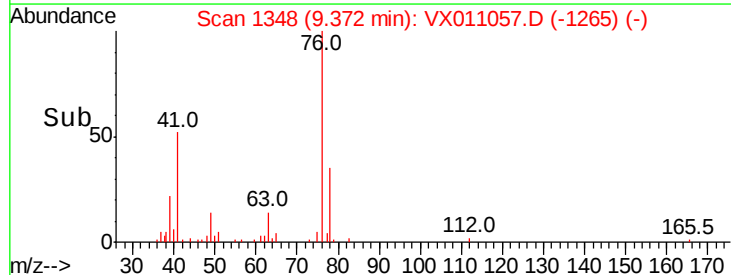
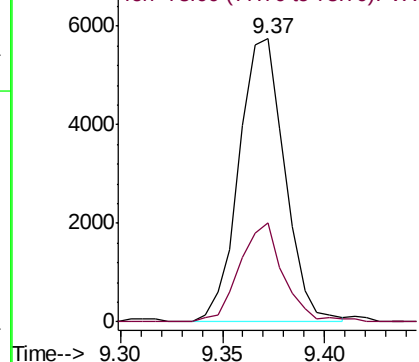


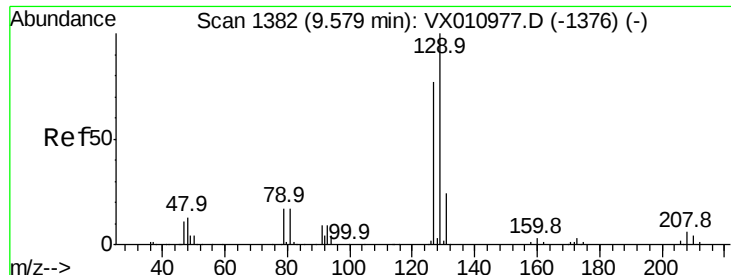
#52
1,3-Dichloropropane
Concen: 2.450 ug/l
RT: 9.37 min Scan# 1348
Delta R.T. 0.01 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Tgt Ion	Ratio	Lower	Upper
76	100		
78	32.8	0.0	63.8



Abundance Ion 76.00 (75.70 to 76.70): VX0
Ion 78.00 (77.70 to 78.70): VX0





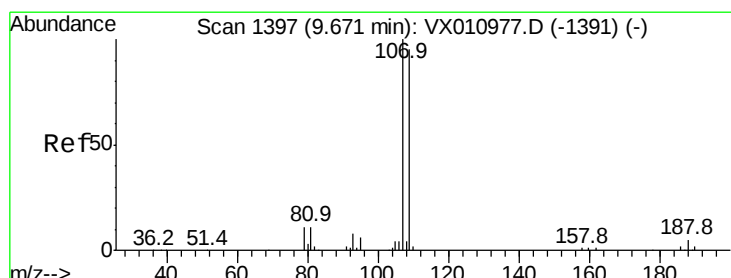
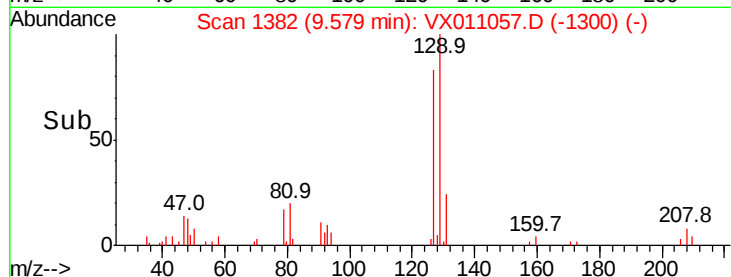
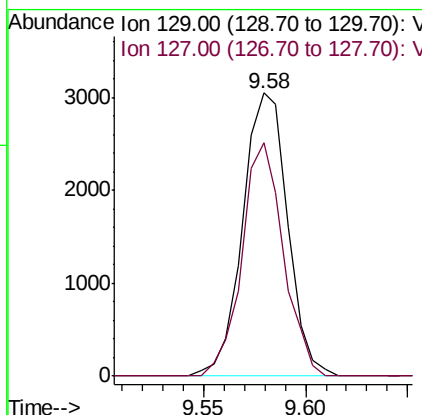
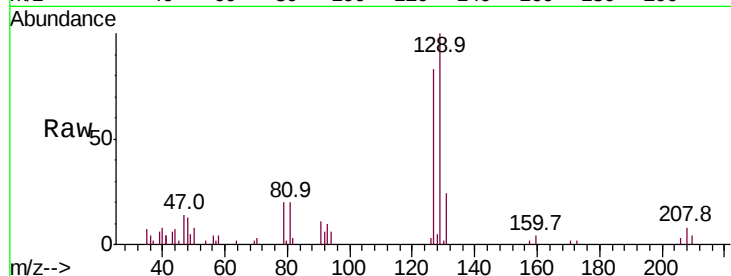
#53
Dibromochloromethane
Concen: 1.903 ug/l
RT: 9.58 min Scan# 1382
Delta R.T. 0.00 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion:129 Resp: 4671
Ion Ratio Lower Upper
129 100
127 76.1 38.1 114.3

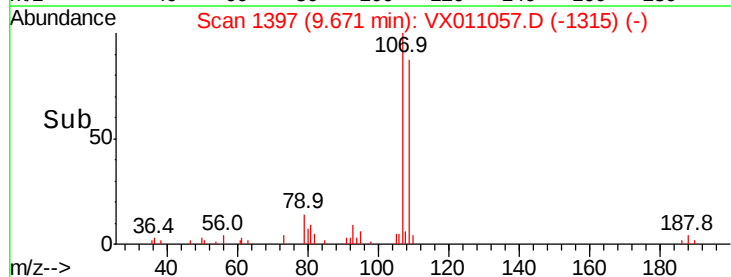
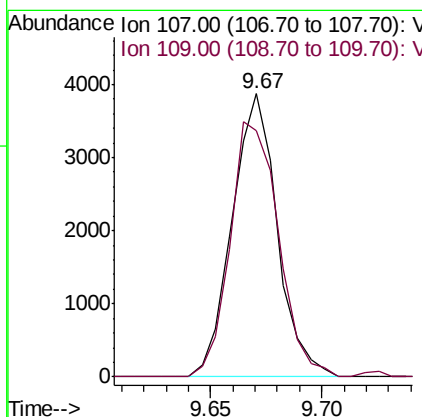
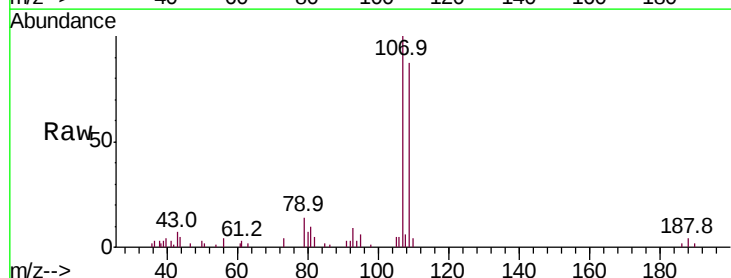
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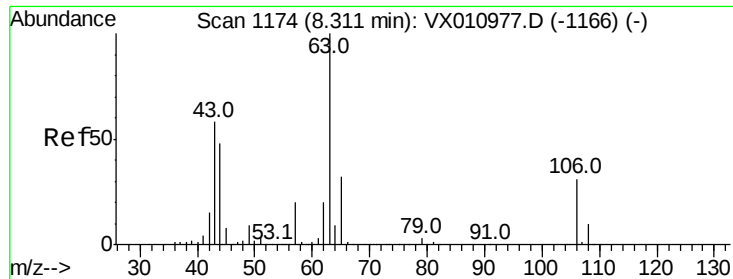
MMDadoda
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#54
1,2-Dibromoethane
Concen: 2.211 ug/l
RT: 9.67 min Scan# 1397
Delta R.T. 0.00 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Tgt Ion:107 Resp: 5461
Ion Ratio Lower Upper
107 100
109 96.5 77.1 115.7





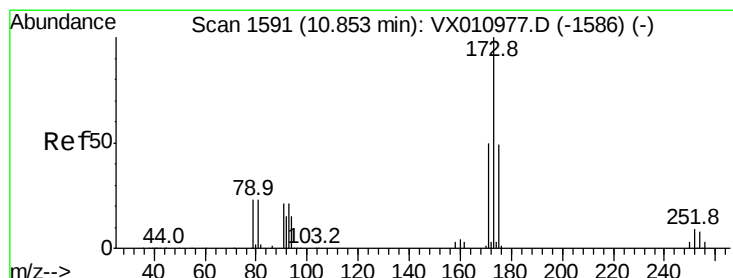
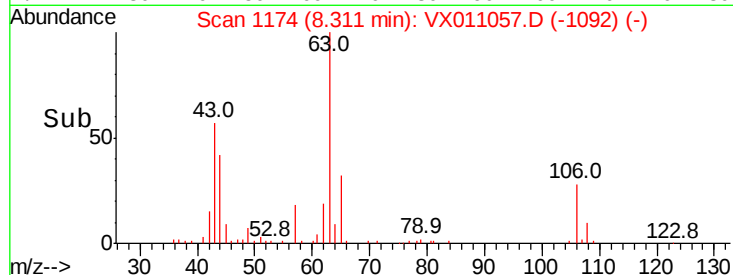
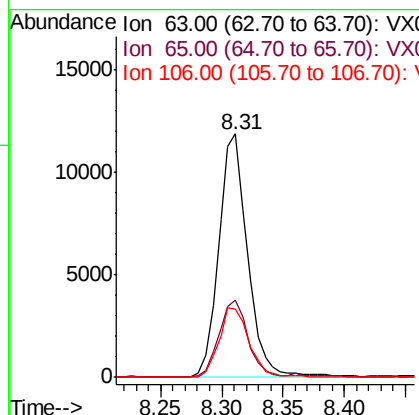
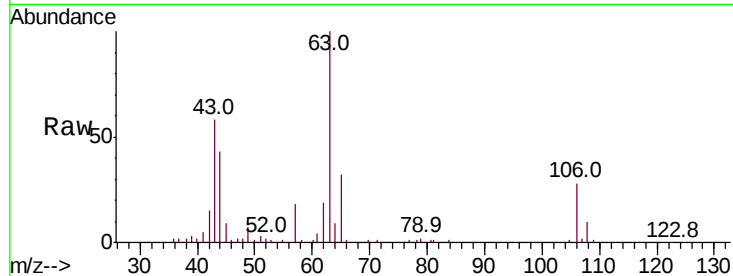
#55
2-Chloroethyl vinyl ether
Concen: 13.062 ug/l
RT: 8.31 min Scan# 1174
Delta R.T. 0.00 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
63	100		
65	32.1	25.7	38.5
106	29.6	24.8	37.2

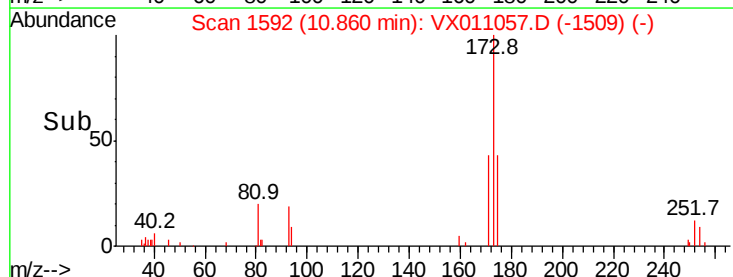
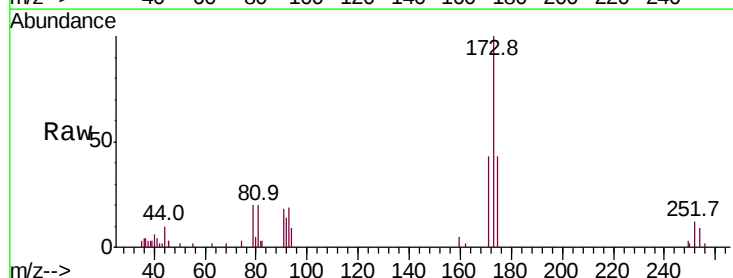
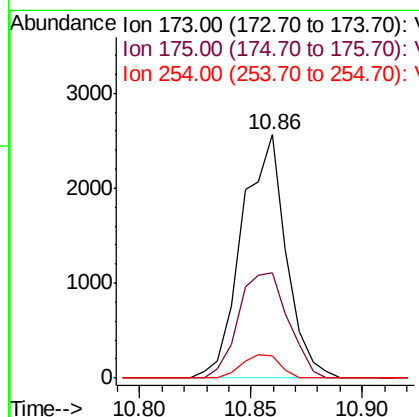
Manual Integrations
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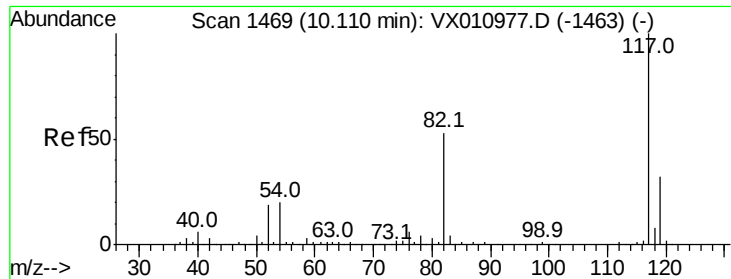
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#56
Bromoform
Concen: 1.937 ug/l
RT: 10.86 min Scan# 1592
Delta R.T. 0.01 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.7	39.0	58.6
254	8.4	7.9	11.9





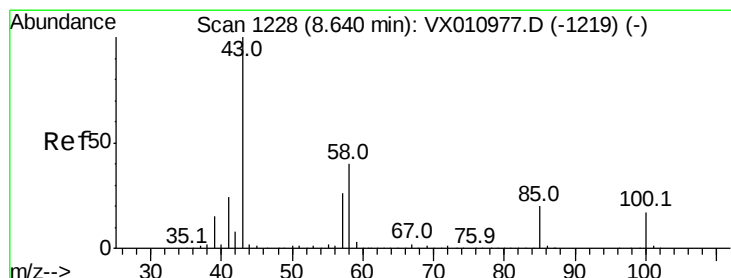
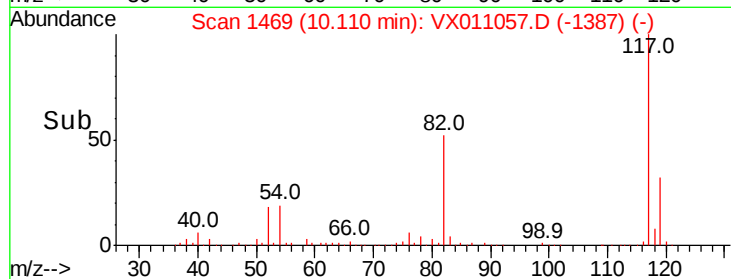
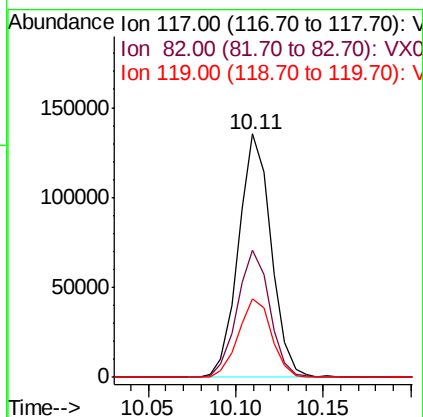
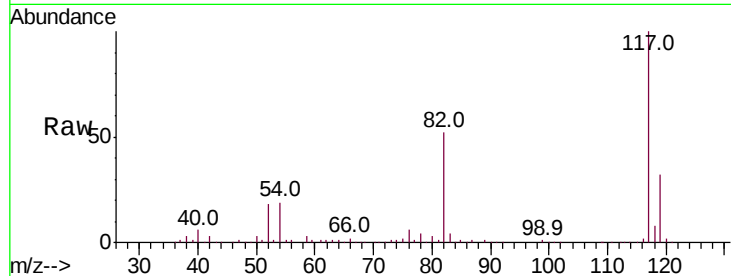
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.3	41.6	62.4
119	32.8	26.0	39.0

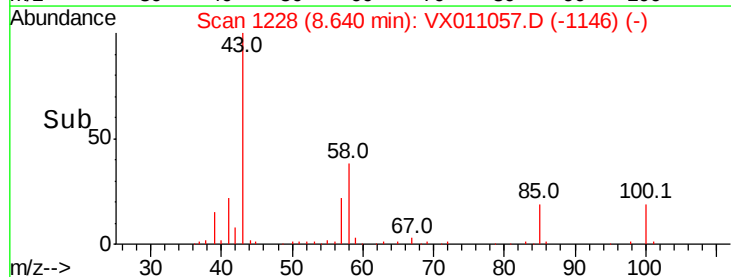
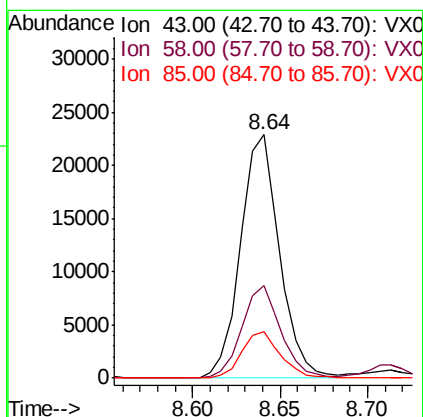
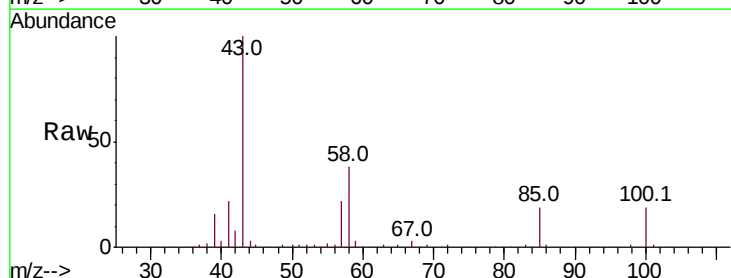
Manual Integrations
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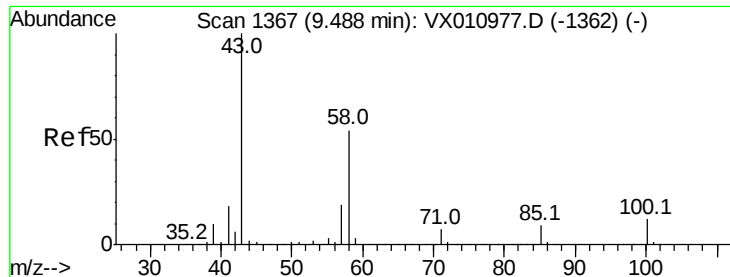
MMDadoda
7/25/2019 3:54:45 PM



#58
4-Methyl-2-Pentanone
Concen: 12.005 ug/l
RT: 8.64 min Scan# 1228
Delta R.T. 0.00 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Tgt Ion	Ratio	Lower	Upper
43	100		
58	38.0	32.6	48.8
85	18.9	15.8	23.6





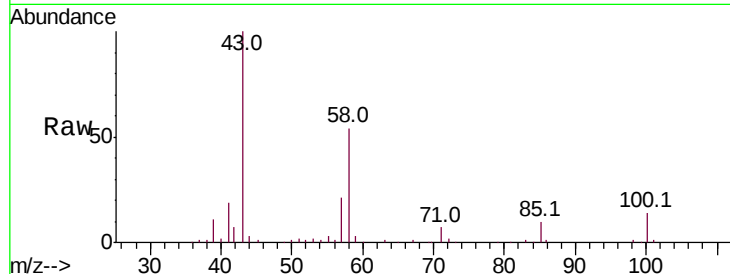
#59
2-Hexanone
Concen: 11.612 ug/l
RT: 9.49 min Scan# 1367
Delta R.T. 0.00 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.9	44.7	67.1
57	21.0	15.4	23.2

Manual Integrations
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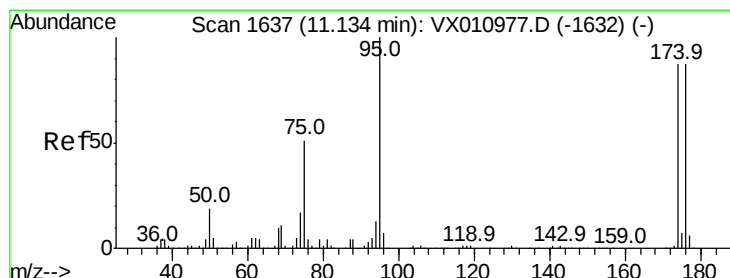
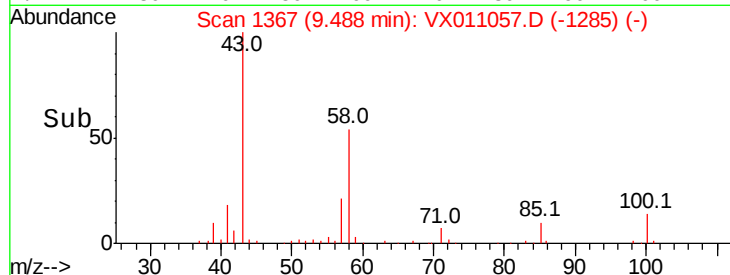
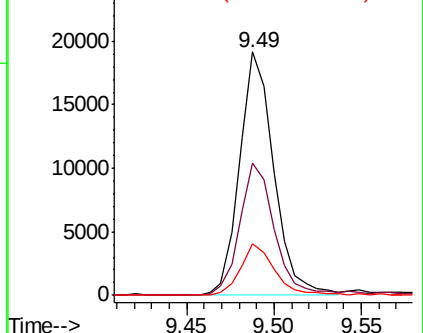


Abundance

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#60
4-Bromofluorobenzene
Concen: 28.598 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

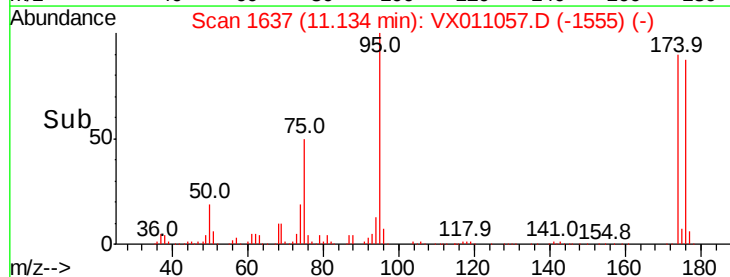
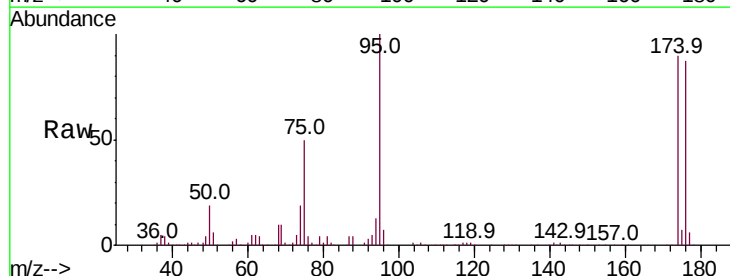
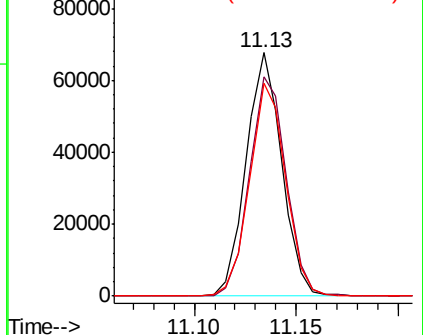
Tgt Ion	Ratio	Lower	Upper
95	100		
174	92.8	73.3	109.9
176	88.9	71.2	106.8

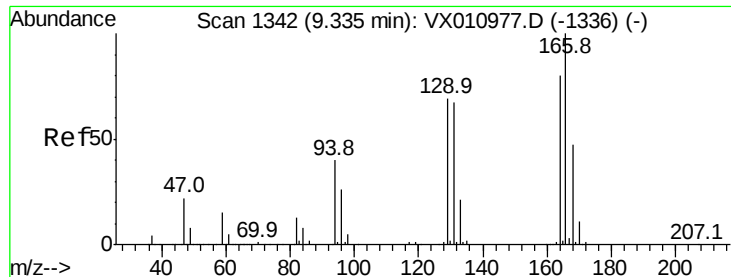
Abundance

Ion 95.00 (94.70 to 95.70): VX0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





#61

Tetrachloroethene

Concen: 2.650 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX011057.D

Acq: 24 Jul 2019 13:19

Instrument :

MSVOA_X

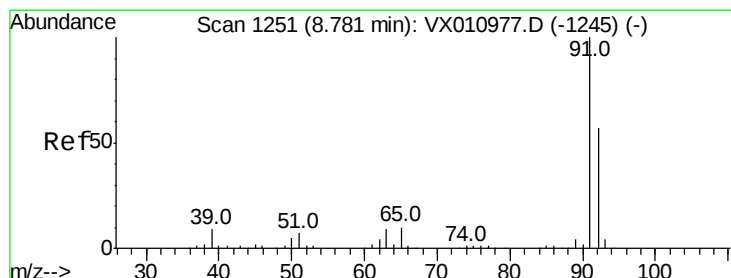
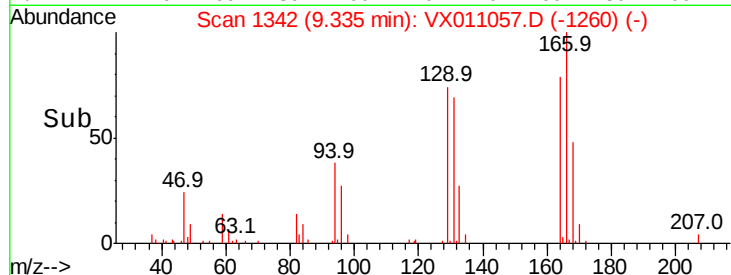
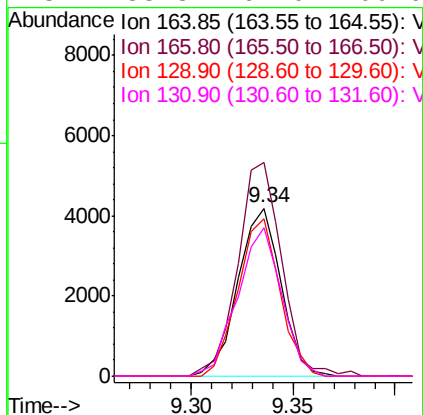
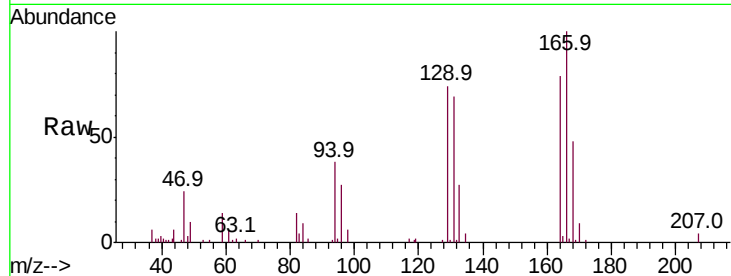
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion:	164	Resp:	6134
Ion	Ratio	Lower	Upper
164	100		
166	127.4	100.1	150.1
129	93.6	69.6	104.4
131	88.3	67.0	100.6

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#62

Toluene

Concen: 2.425 ug/l

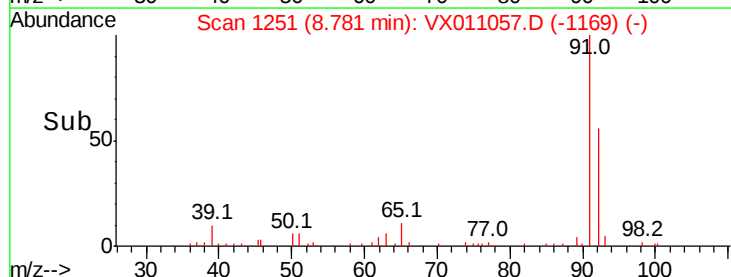
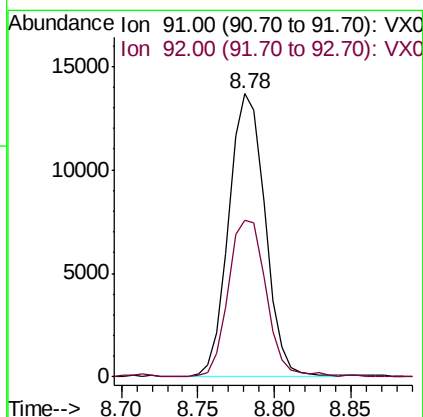
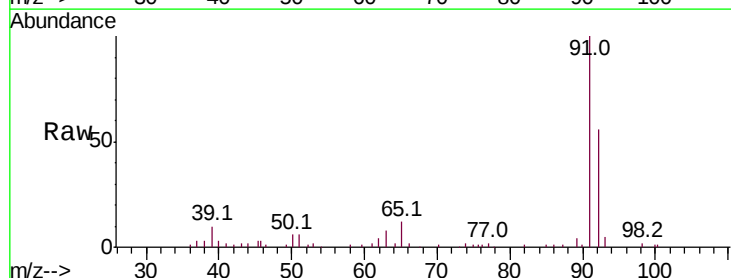
RT: 8.78 min Scan# 1251

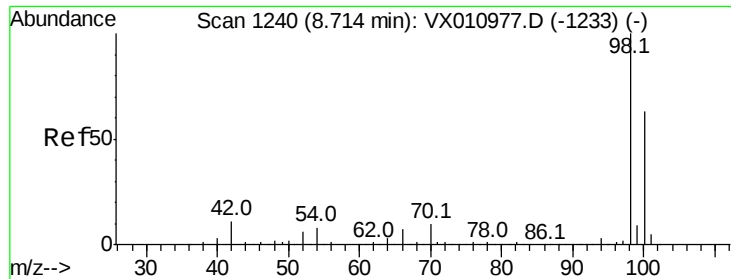
Delta R.T. 0.00 min

Lab File: VX011057.D

Acq: 24 Jul 2019 13:19

Tgt Ion:	91	Resp:	22582
Ion	Ratio	Lower	Upper
91	100		
92	57.2	45.4	68.2





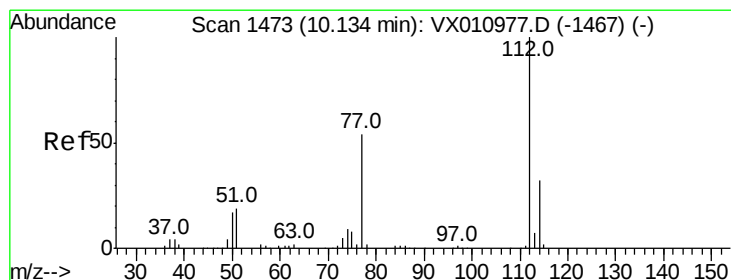
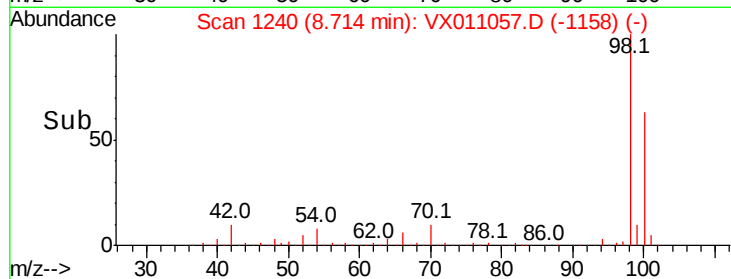
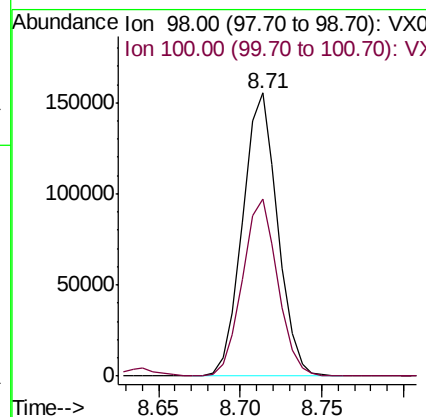
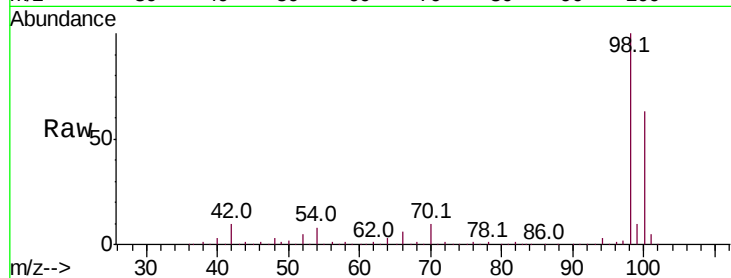
#63
Toluene-d8
Concen: 30.196 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 98 Resp: 232659
Ion Ratio Lower Upper
98 100
100 63.1 51.4 77.0

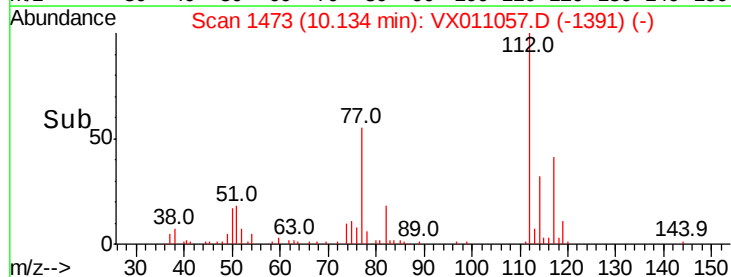
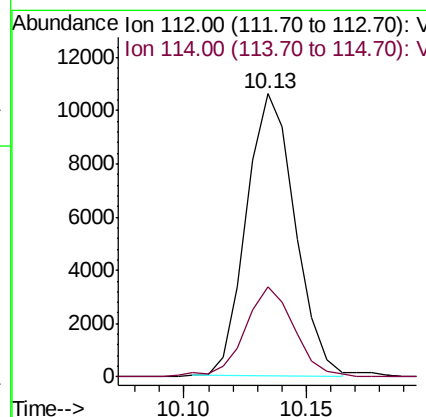
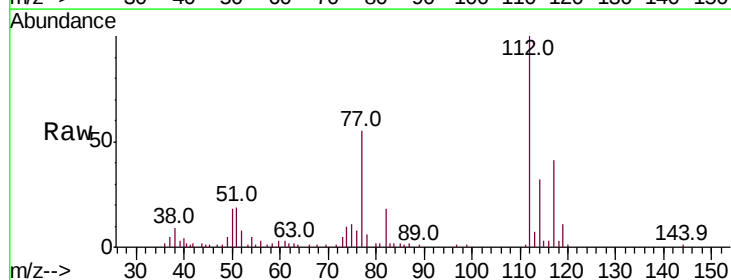
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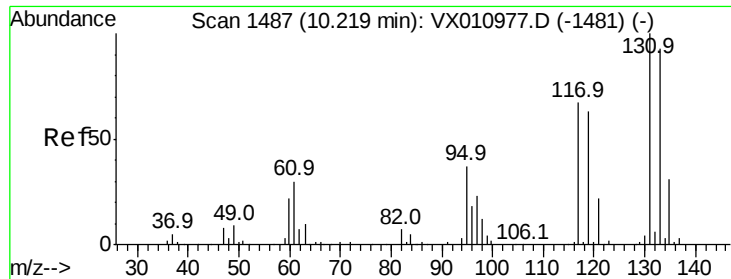
MMDadoda
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#64
Chlorobenzene
Concen: 2.467 ug/l
RT: 10.13 min Scan# 1473
Delta R.T. 0.00 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Tgt Ion: 112 Resp: 14720
Ion Ratio Lower Upper
112 100
114 31.1 25.3 37.9





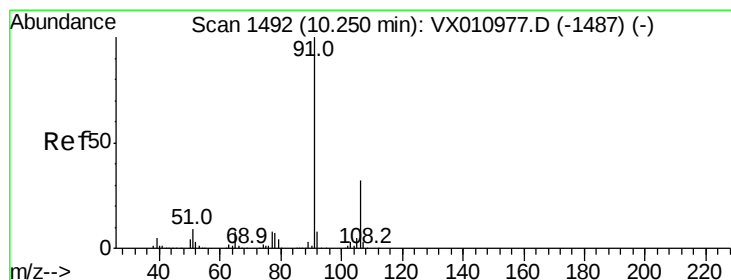
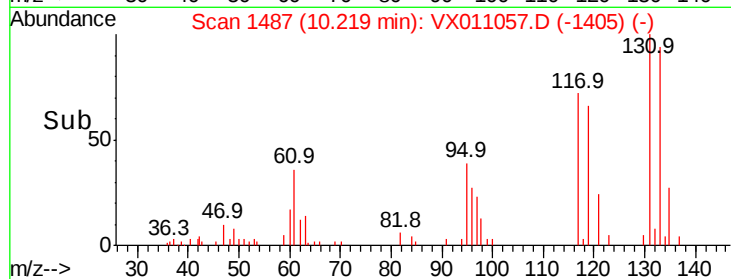
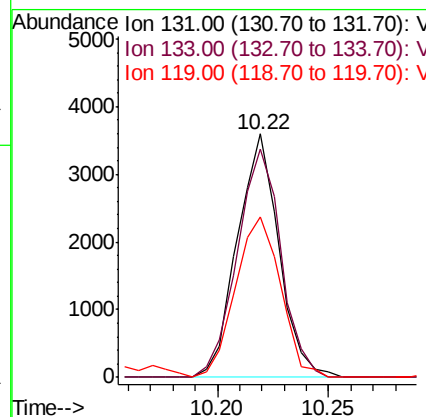
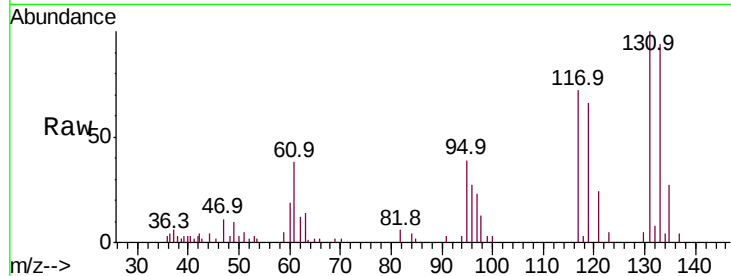
#65
 1,1,1,2-Tetrachloroethane
 Concen: 2.159 ug/l
 RT: 10.22 min Scan# 1487
 Delta R.T. 0.00 min
 Lab File: VX011057.D
 Acq: 24 Jul 2019 13:19

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
131	100		
133	98.9	0.0	190.2
119	71.3	0.0	127.0

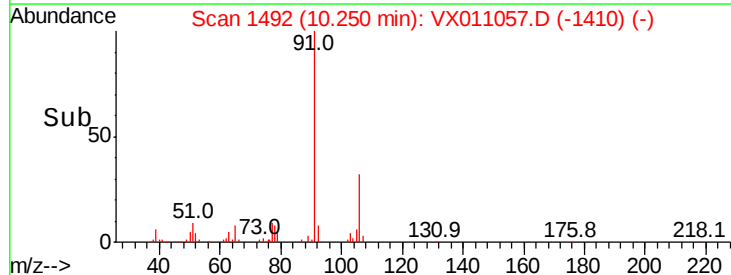
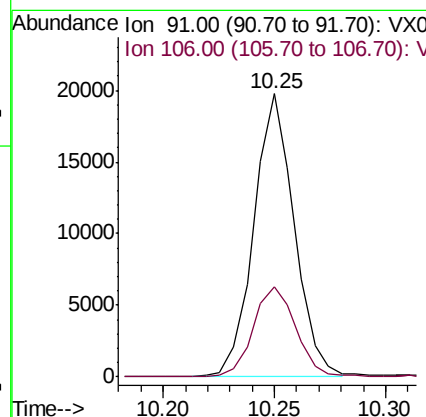
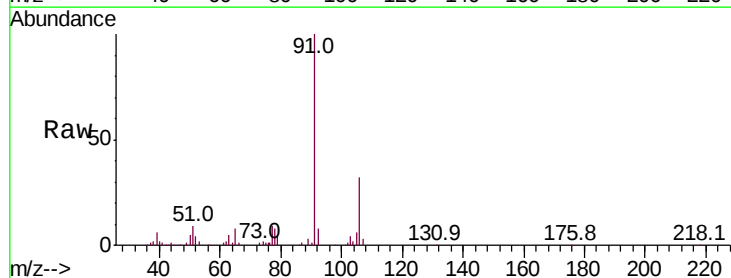
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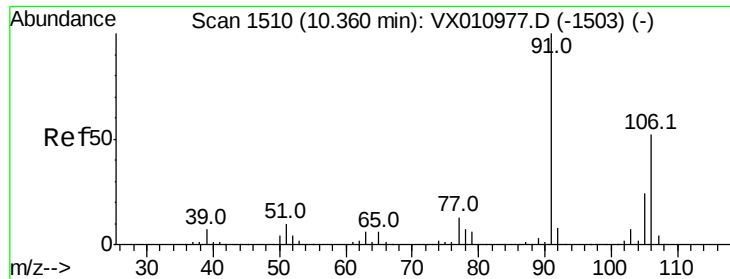
MMDadoda
 7/25/2019 3:54:45 PM



#66
 Ethyl Benzene
 Concen: 2.384 ug/l
 RT: 10.25 min Scan# 1492
 Delta R.T. 0.00 min
 Lab File: VX011057.D
 Acq: 24 Jul 2019 13:19

Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.7	25.8	38.8





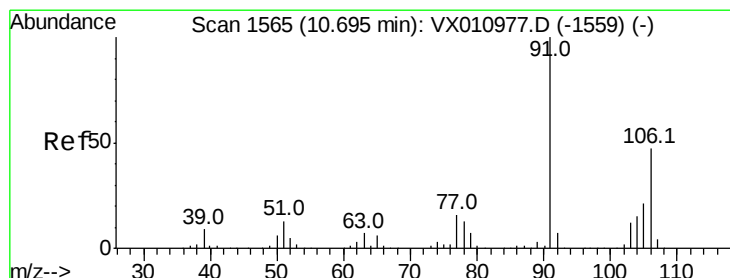
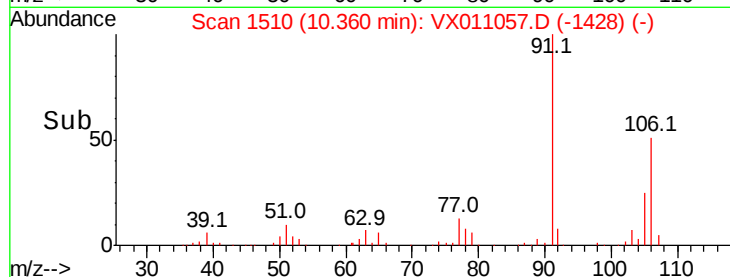
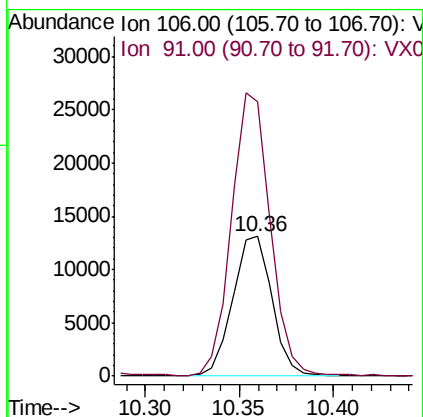
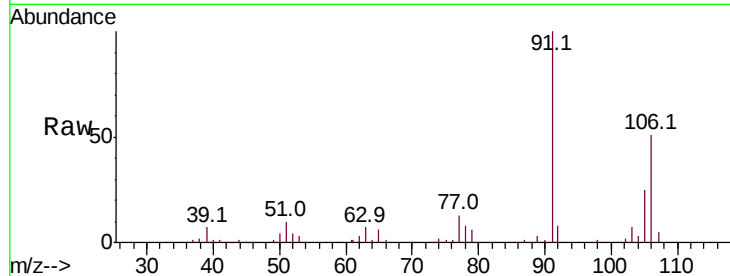
#67
m/p-Xylenes
Concen: 4.740 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. 0.00 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion:106 Resp: 19012
Ion Ratio Lower Upper
106 100
91 199.9 156.6 235.0

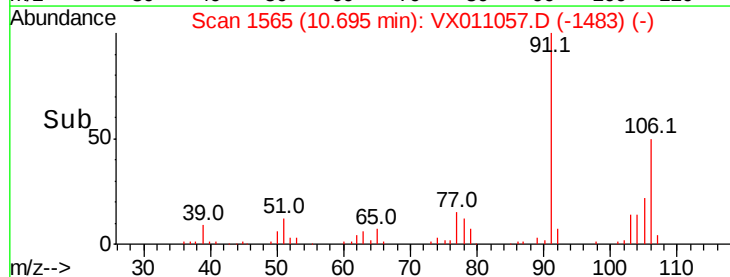
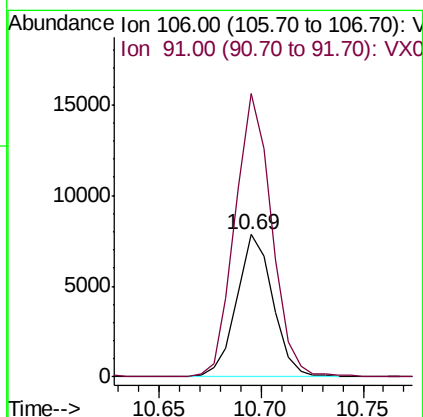
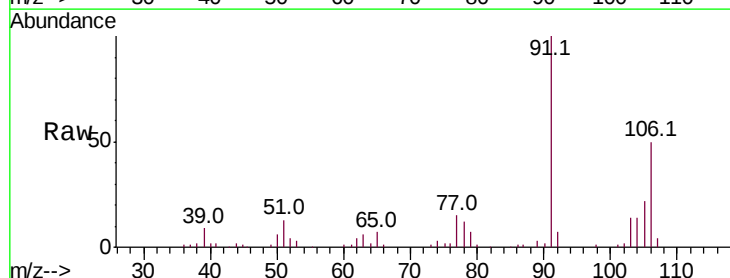
Manual Integrations
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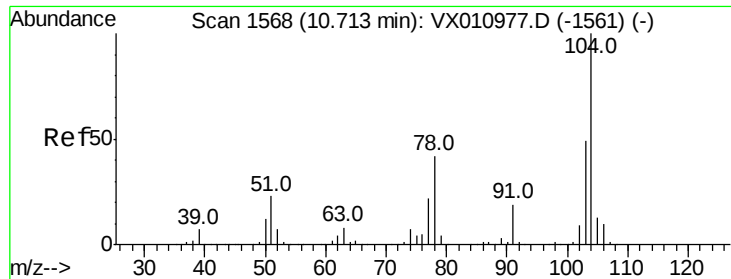
MMDadoda
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#68
o-Xylene
Concen: 2.468 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. 0.00 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Tgt Ion:106 Resp: 9700
Ion Ratio Lower Upper
106 100
91 201.7 104.0 312.0





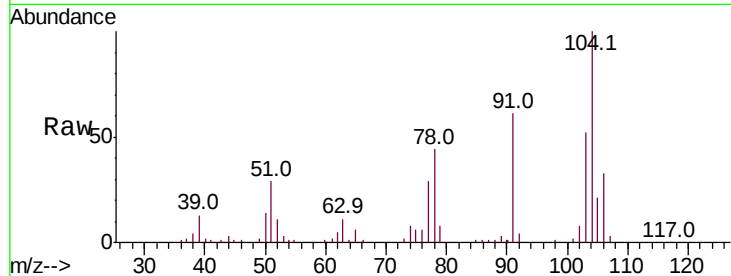
#69
Stvrene
Concen: 2.245 ug/l
RT: 10.71 min Scan# 1567
Delta R.T. -0.01 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

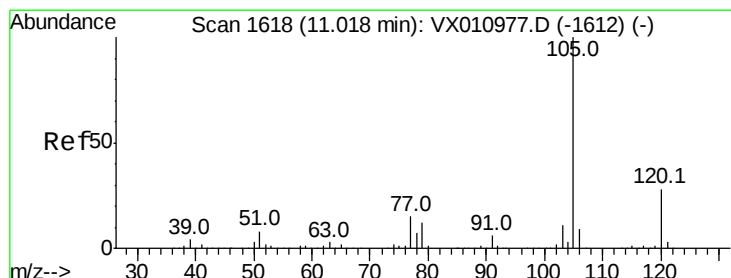
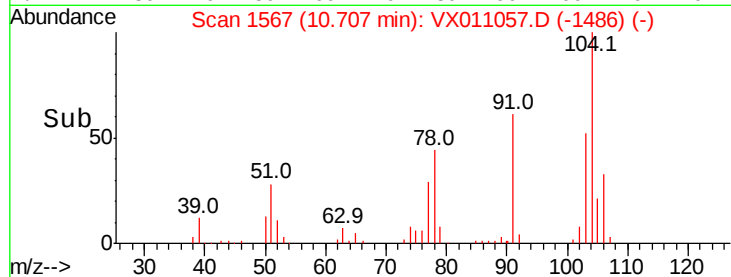
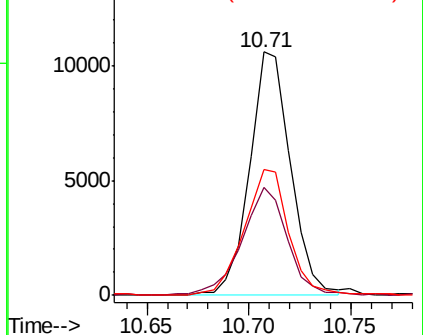
Tot Ion	Ratio	Lower	Upper
104	100		
78	49.1	38.5	57.7
103	56.3	44.6	67.0

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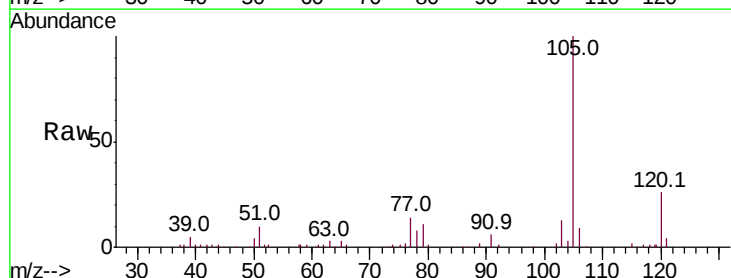


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VX0
Ion 103.00 (102.70 to 103.70): V

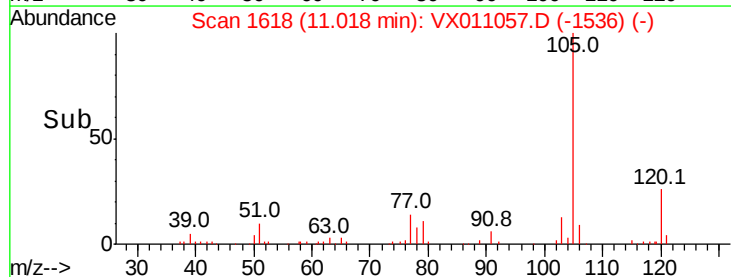
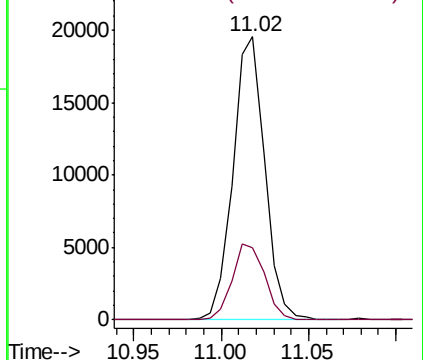


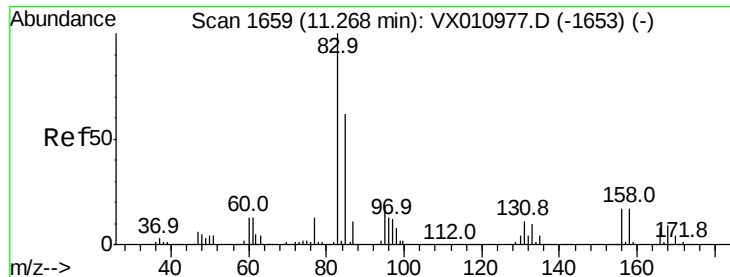
#70
Isopropylbenzene
Concen: 2.357 ug/l
RT: 11.02 min Scan# 1618
Delta R.T. 0.00 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.6	19.4	36.0



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





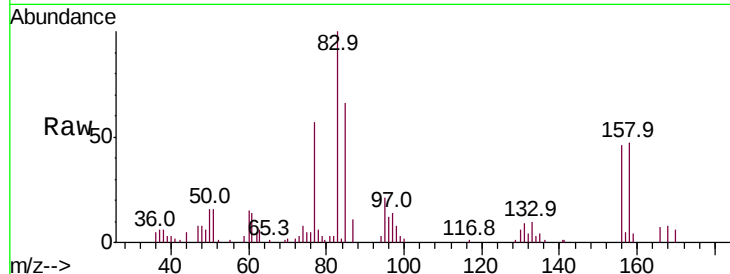
#71
 1,1,2,2-Tetrachloroethane
 Concen: 2.369 ug/l
 RT: 11.26 min Scan# 1658
 Delta R.T. -0.01 min
 Lab File: VX011057.D
 Acq: 24 Jul 2019 13:19

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
83	100		
131	11.9	5.5	16.4
85	67.9	32.1	96.3

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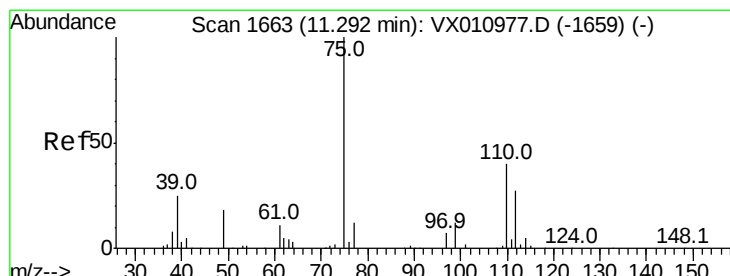
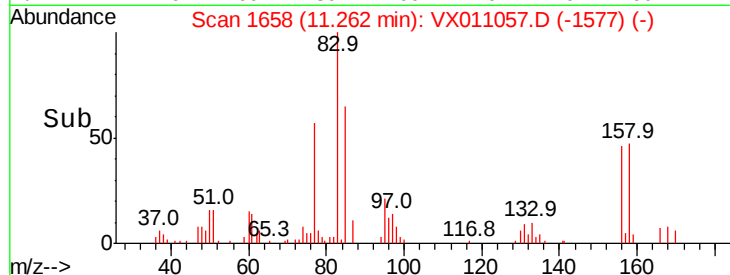
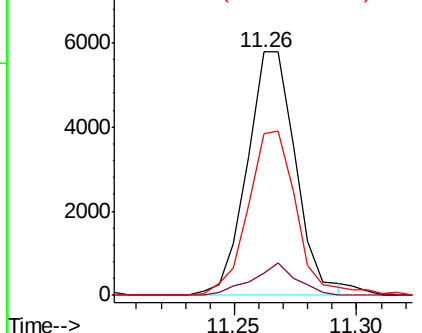


Abundance

Ion 83.00 (82.70 to 83.70): VX0

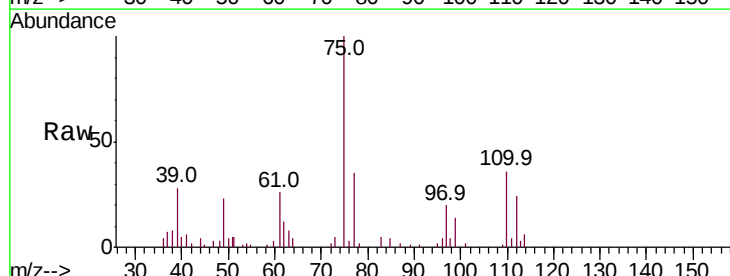
Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VX0



#72
 1,2,3-Trichloropropane
 Concen: 2.636 ug/l m
 RT: 11.29 min Scan# 1663
 Delta R.T. 0.00 min
 Lab File: VX011057.D
 Acq: 24 Jul 2019 13:19

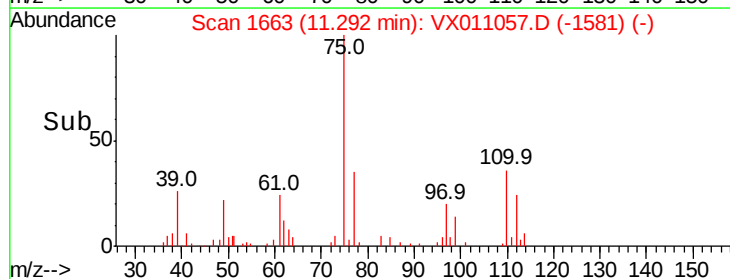
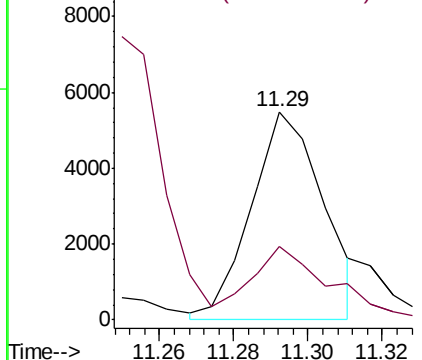
Tgt Ion	Ratio	Lower	Upper
75	100		
77	39.4	0.0	84.0

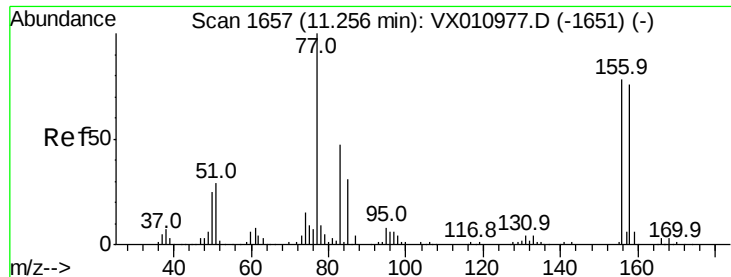


Abundance

Ion 75.00 (74.70 to 75.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#73

Bromobenzene

Concen: 2.380 ug/l

RT: 11.25 min Scan# 1656

Delta R.T. -0.01 min

Lab File: VX011057.D

Acq: 24 Jul 2019 13:19

Instrument :

MSVOA_X

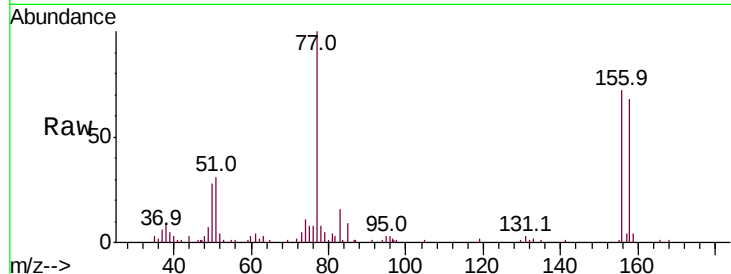
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

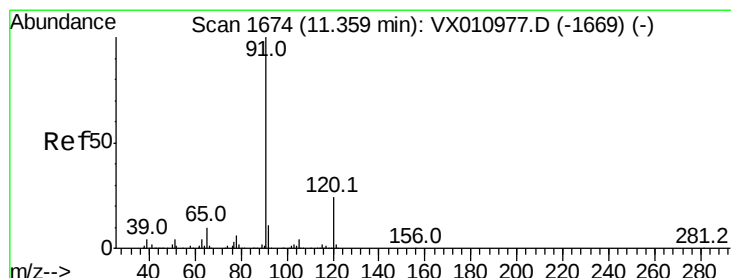
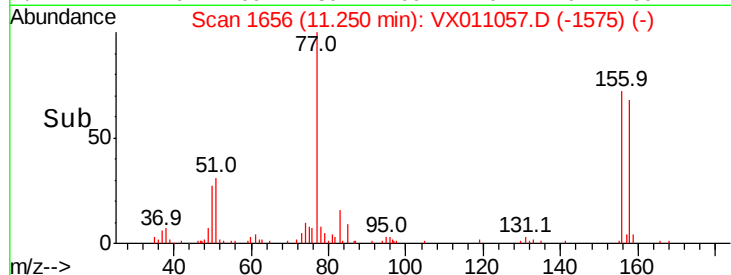
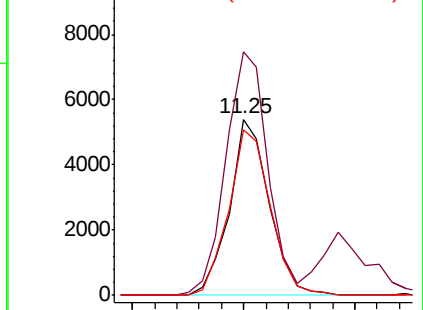
Tot Ion:	156	Resp:	6721
Ion	Ratio	Lower	Upper
156	100		
77	145.3	0.0	275.8
158	98.3	0.0	195.2

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Abundance Ion 156.00 (155.70 to 156.70): V
Ion 77.00 (76.70 to 77.70): VX0
Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 2.309 ug/l

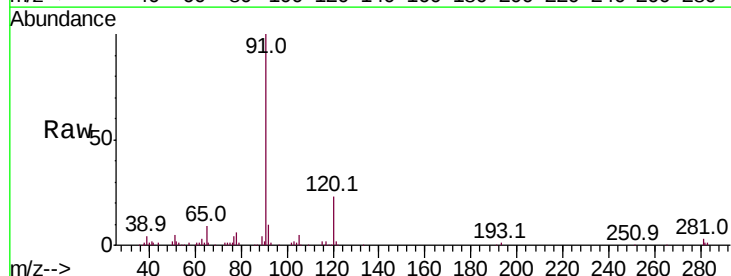
RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

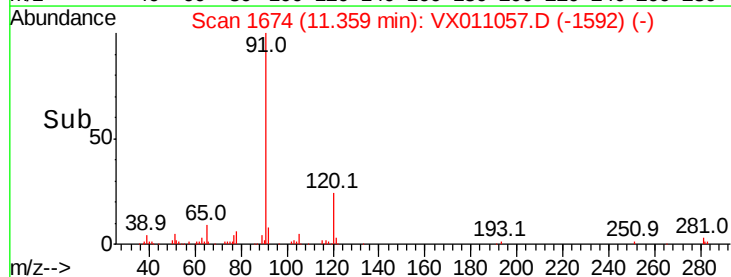
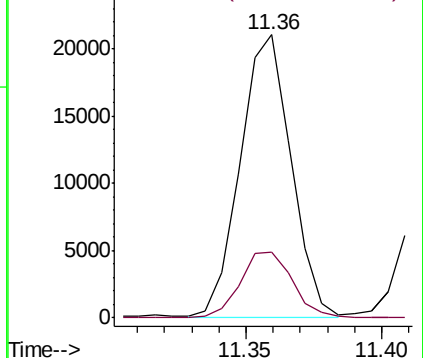
Lab File: VX011057.D

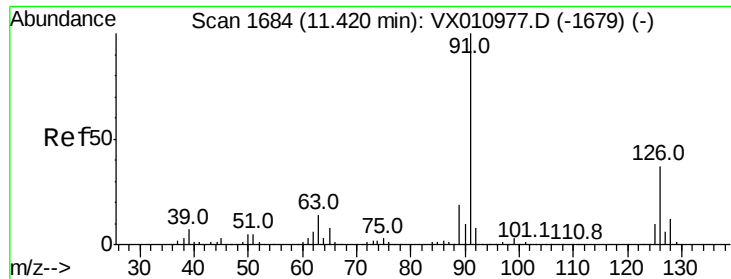
Acq: 24 Jul 2019 13:19

Tgt Ion:	91	Resp:	27199
Ion	Ratio	Lower	Upper
91	100		
120	24.1	0.0	47.6



Abundance Ion 91.00 (90.70 to 91.70): VX0
Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 2.454 ug/l

RT: 11.42 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VX011057.D

Acq: 24 Jul 2019 13:19

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion: 91 Resp: 17217

Ion Ratio Lower Upper

91 100

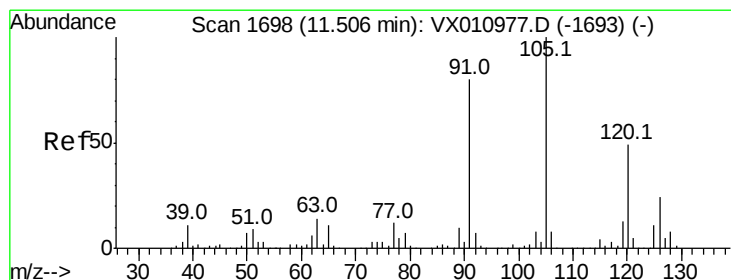
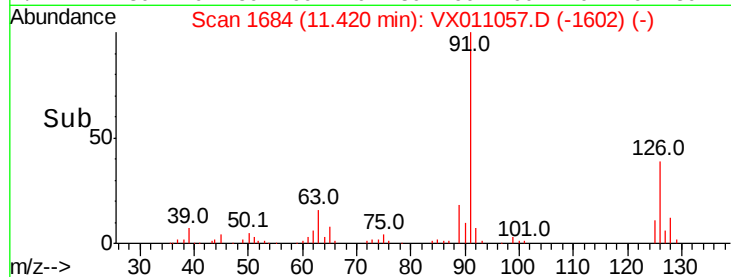
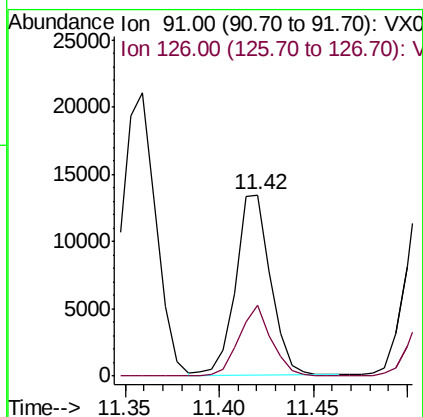
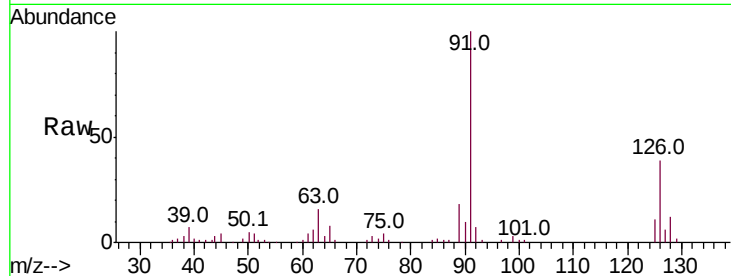
126 36.4 0.0 72.4

Manual Integrations

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#76

1,3,5-Trimethylbenzene

Concen: 2.294 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX011057.D

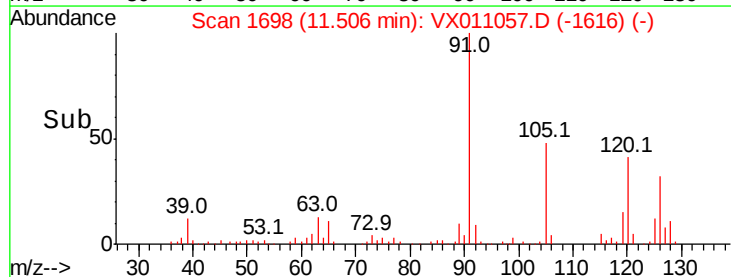
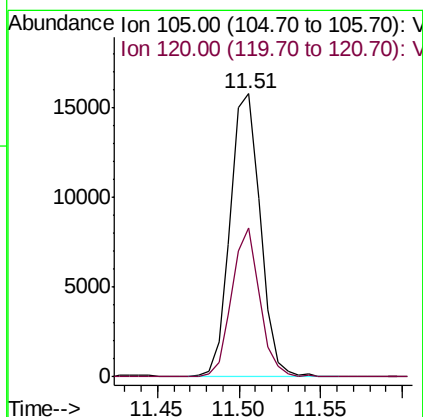
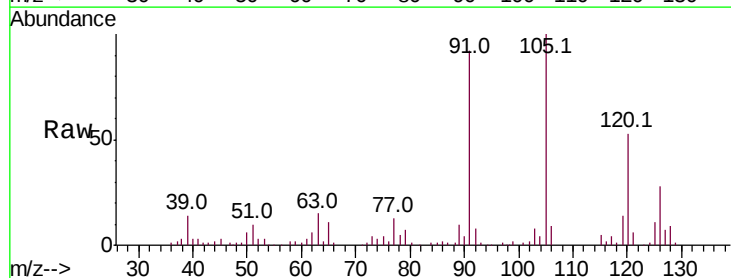
Acq: 24 Jul 2019 13:19

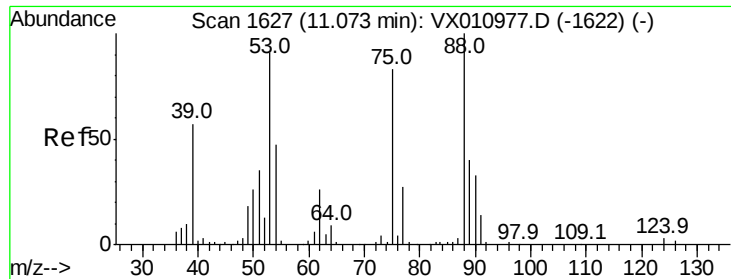
Tgt Ion: 105 Resp: 20320

Ion Ratio Lower Upper

105 100

120 48.7 0.0 96.6





#77

t-1,4-Dichloro-2-butene

Concen: 1.897 ug/l

RT: 11.07 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VX011057.D

Acq: 24 Jul 2019 13:19

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion: 75 Resp: 1763

Ion Ratio Lower Upper

75 100

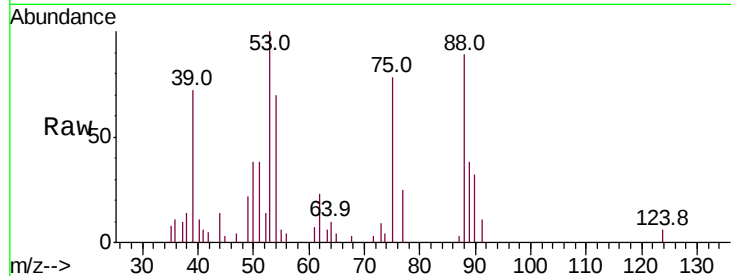
53 128.7 54.8 164.3

89 49.2 24.6 73.6

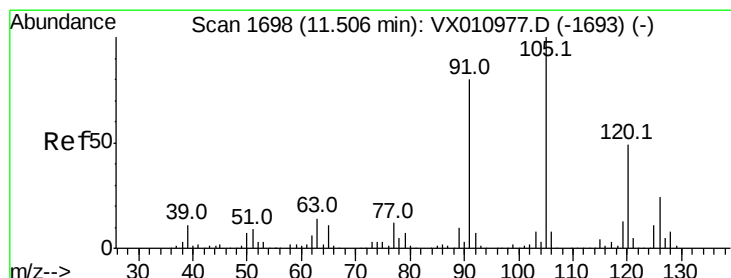
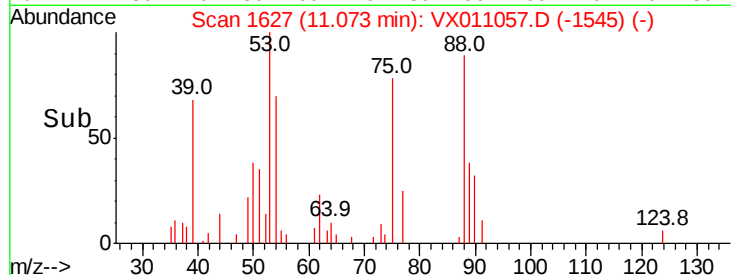
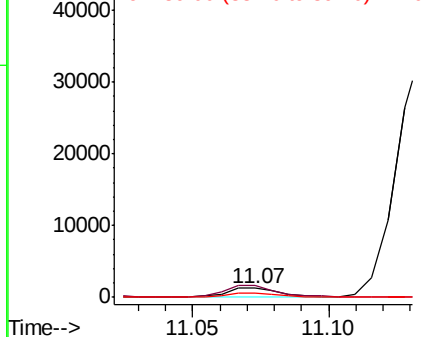
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Abundance Ion 75.00 (74.70 to 75.70): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 89.00 (88.70 to 89.70): VX0



#78

4-Chlorotoluene

Concen: 2.311 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX011057.D

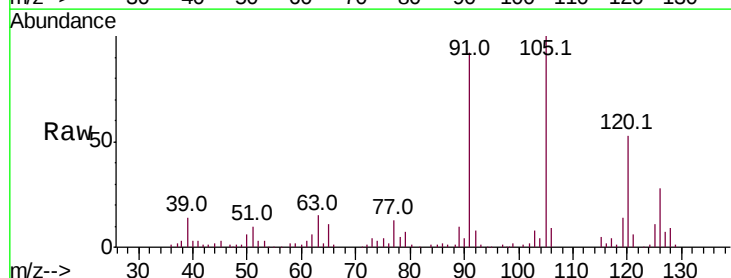
Acq: 24 Jul 2019 13:19

Tgt Ion: 91 Resp: 18615

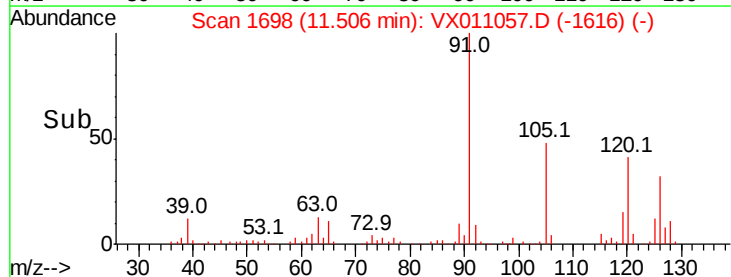
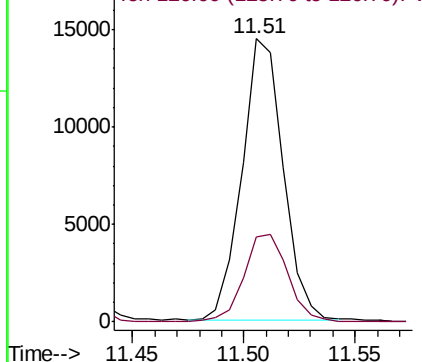
Ion Ratio Lower Upper

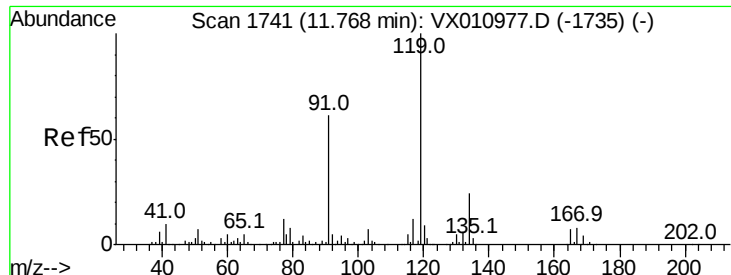
91 100

126 33.1 0.0 63.6



Abundance Ion 91.00 (90.70 to 91.70): VX0
Ion 126.00 (125.70 to 126.70): V





#79

tert-butylbenzene

Concen: 2.355 ug/l

RT: 11.77 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VX011057.D

Acq: 24 Jul 2019 13:19

Instrument :

MSVOA_X

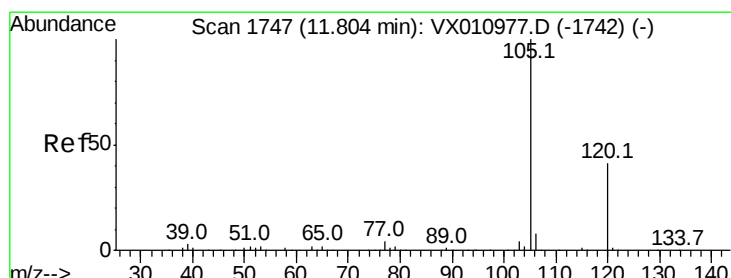
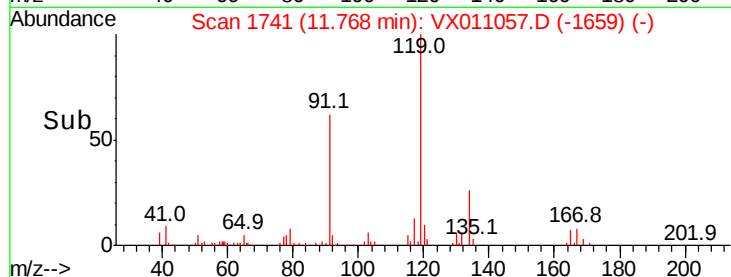
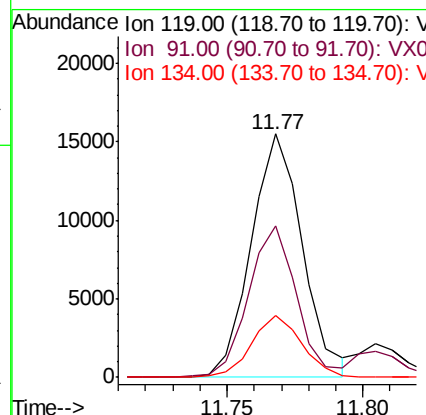
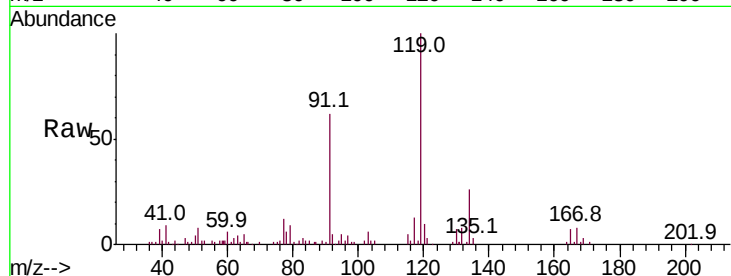
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion:	119	Resp:	20234
Ion Ratio	Lower	Upper	
119	100		
91	58.7	0.0	118.4
134	25.0	0.0	47.4

Manual Integrations
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#80

1,2,4-Trimethylbenzene

Concen: 2.341 ug/l

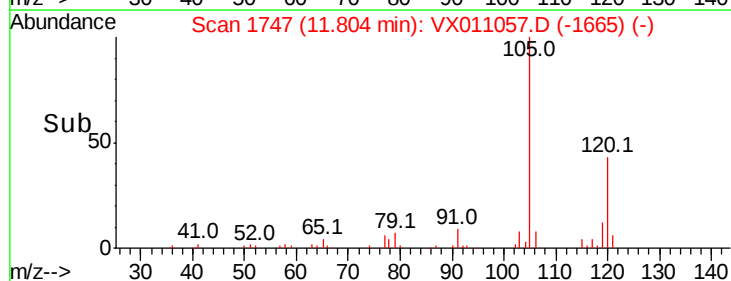
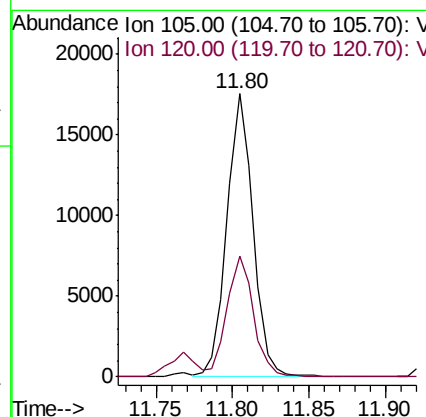
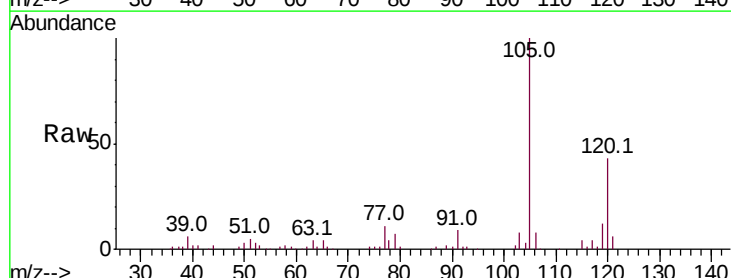
RT: 11.80 min Scan# 1747

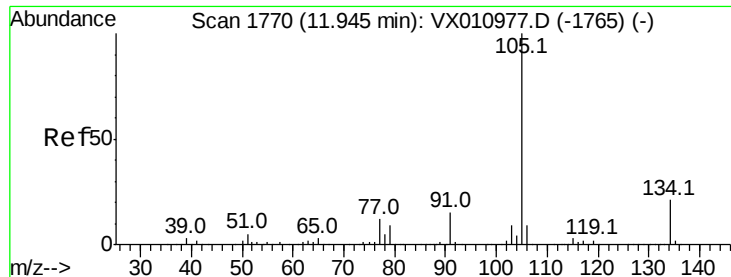
Delta R.T. 0.00 min

Lab File: VX011057.D

Acq: 24 Jul 2019 13:19

Tgt Ion:	105	Resp:	20882
Ion Ratio	Lower	Upper	
105	100		
120	43.1	0.0	91.6





#81

sec-Butylbenzene

Concen: 2.313 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX011057.D

Acq: 24 Jul 2019 13:19

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion:105 Resp: 23423

Ion Ratio Lower Upper

105 100

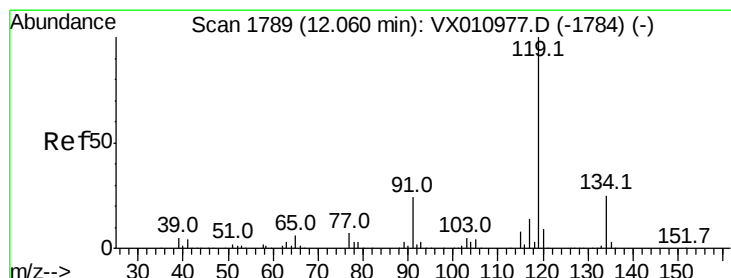
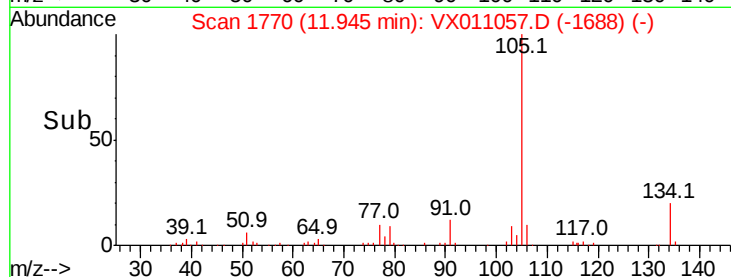
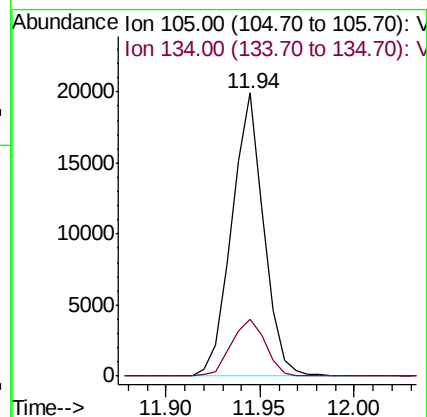
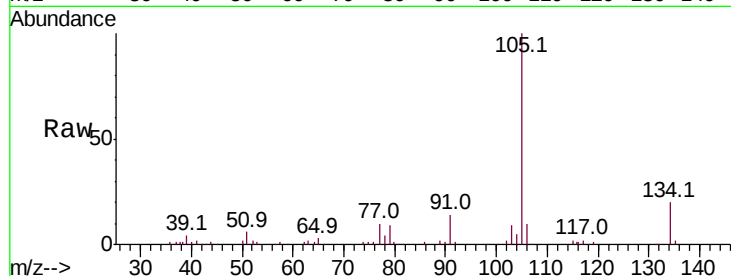
134 21.3 0.0 41.8

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#82

p-Isopropyltoluene

Concen: 2.270 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. 0.00 min

Lab File: VX011057.D

Acq: 24 Jul 2019 13:19

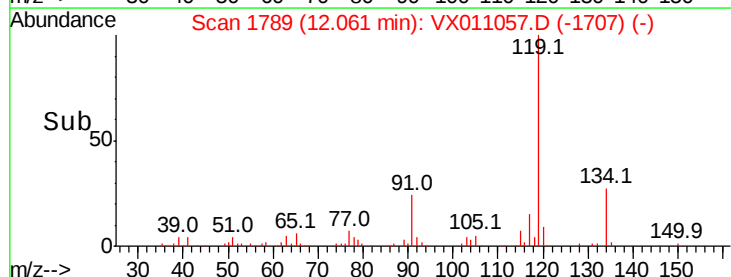
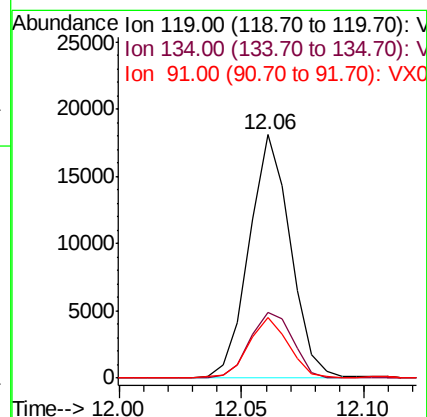
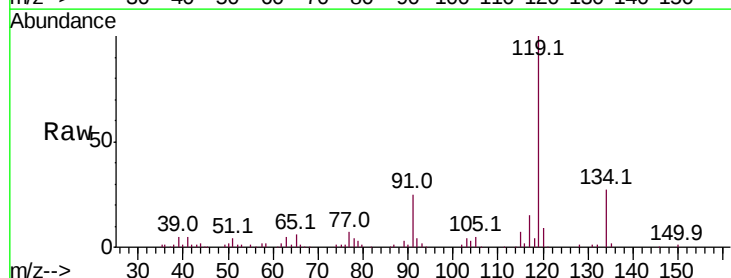
Tgt Ion:119 Resp: 21332

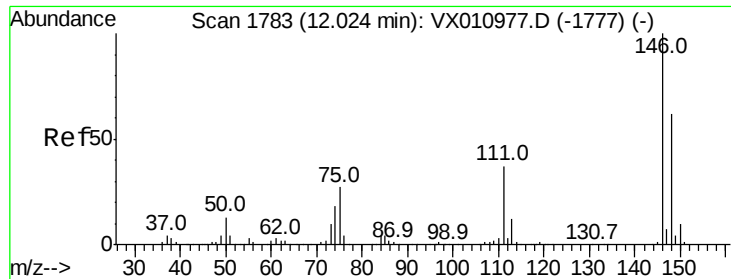
Ion Ratio Lower Upper

119 100

134 28.1 0.0 52.8

91 24.3 0.0 47.0





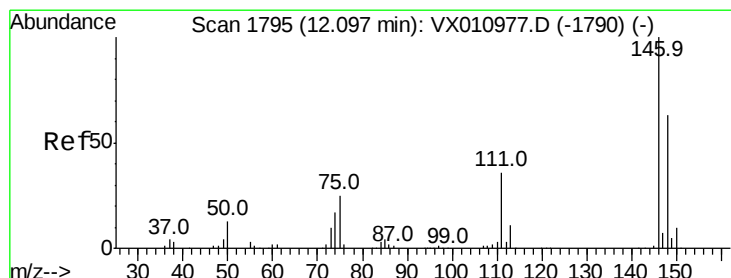
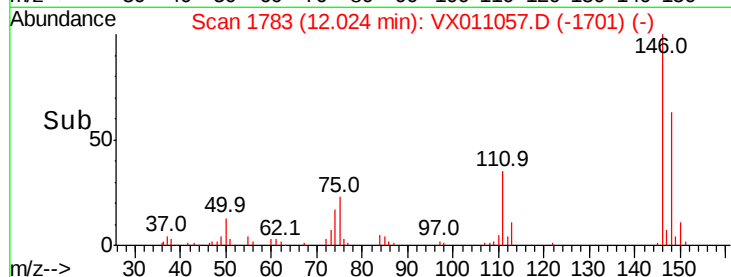
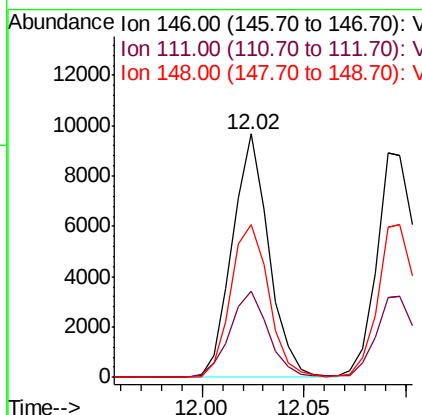
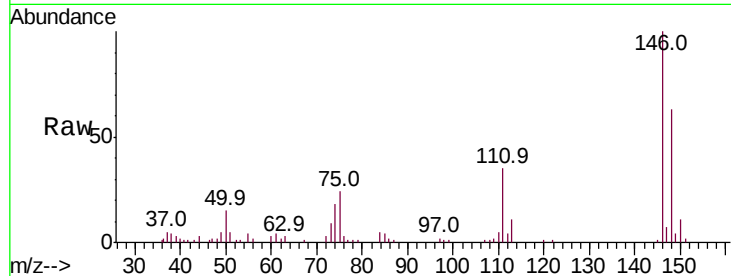
#83
 1,3-Dichlorobenzene
 Concen: 2.406 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. 0.00 min
 Lab File: VX011057.D
 Acq: 24 Jul 2019 13:19

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.2	18.9	56.9
148	65.3	31.4	94.0

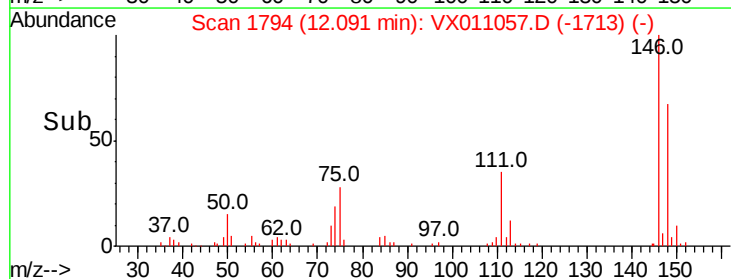
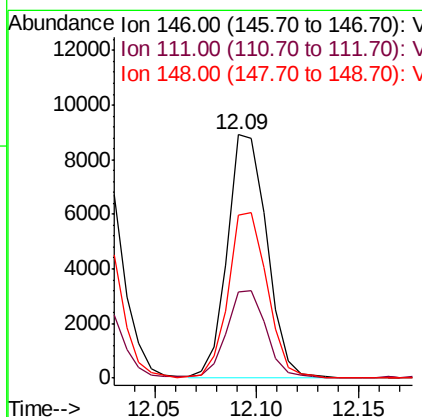
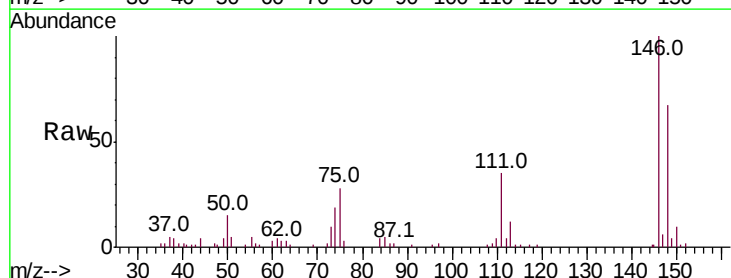
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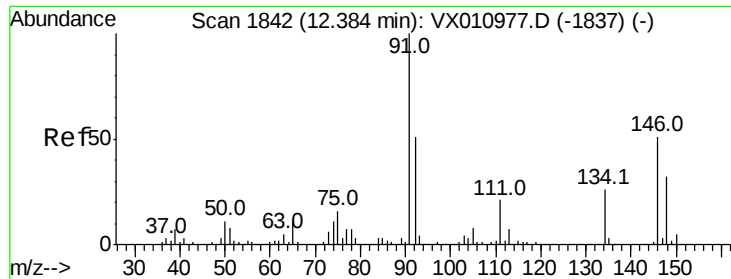
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#84
 1,4-Dichlorobenzene
 Concen: 2.419 ug/l
 RT: 12.09 min Scan# 1794
 Delta R.T. -0.01 min
 Lab File: VX011057.D
 Acq: 24 Jul 2019 13:19

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.0	18.5	55.5
148	67.1	32.0	96.0





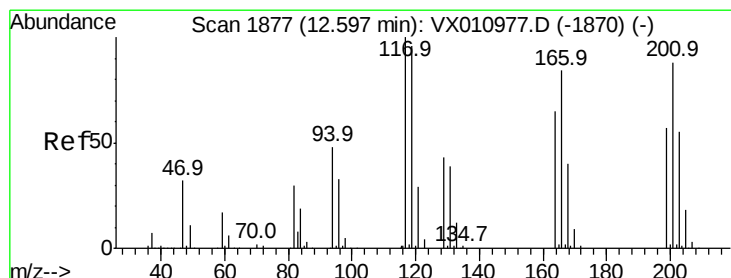
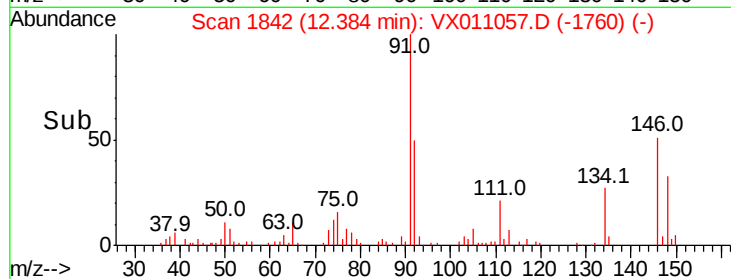
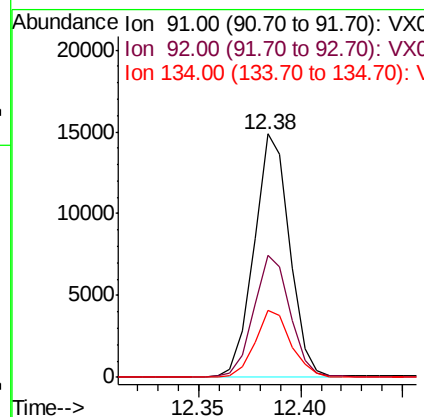
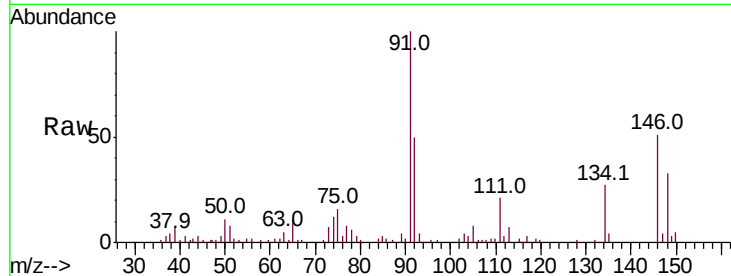
#85
n-Butylbenzene
Concen: 2.259 ug/l
RT: 12.38 min Scan# 1842
Delta R.T. 0.00 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion	Ratio	Resp	Lower	Upper
91	100			
92	51.5	0.0	103.6	
134	27.8	0.0	54.2	

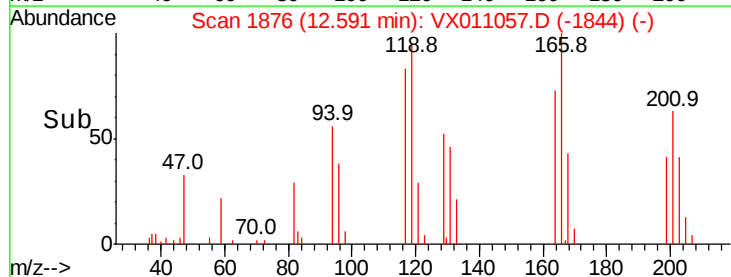
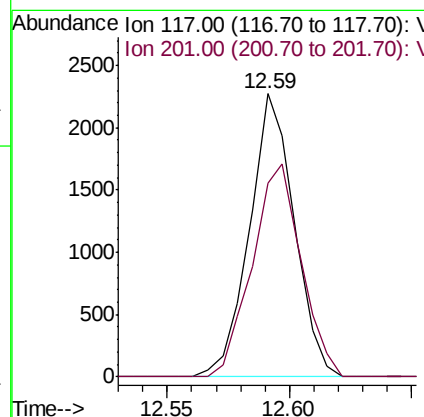
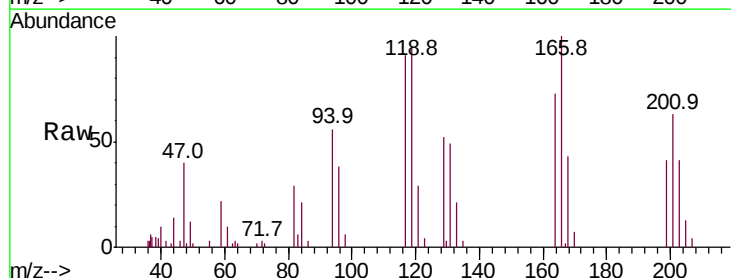
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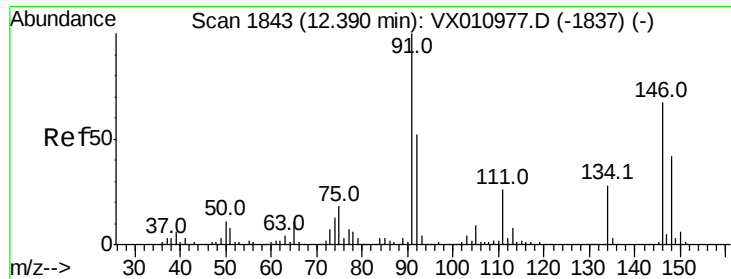
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#86
Hexachloroethane
Concen: 1.947 ug/l
RT: 12.59 min Scan# 1876
Delta R.T. -0.01 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
201	82.3	42.1	126.3	





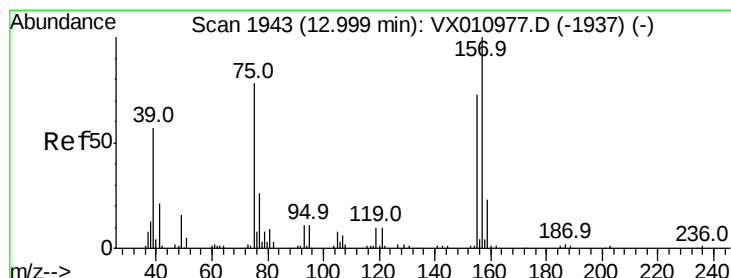
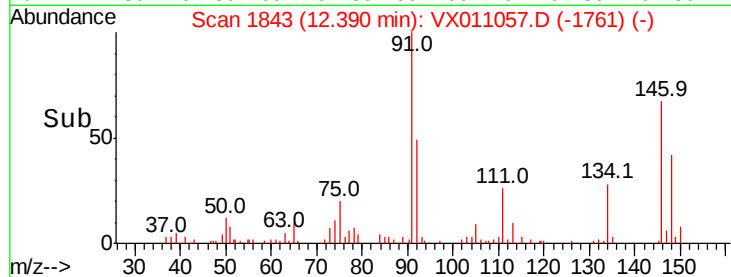
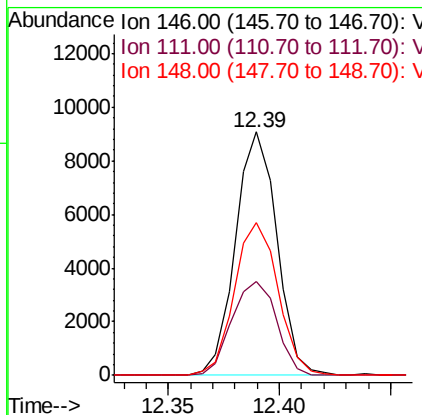
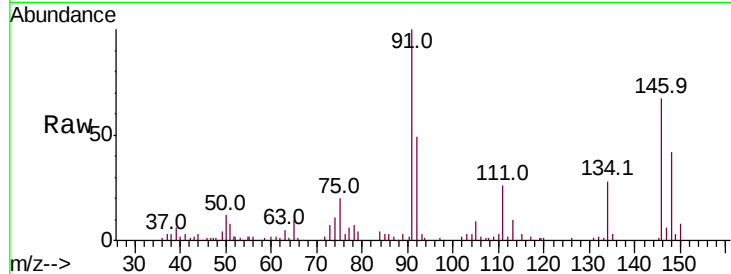
#87
 1,2-Dichlorobenzene
 Concen: 2.416 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. 0.00 min
 Lab File: VX011057.D
 Acq: 24 Jul 2019 13:19

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.4	19.5	58.5
148	65.9	31.5	94.5

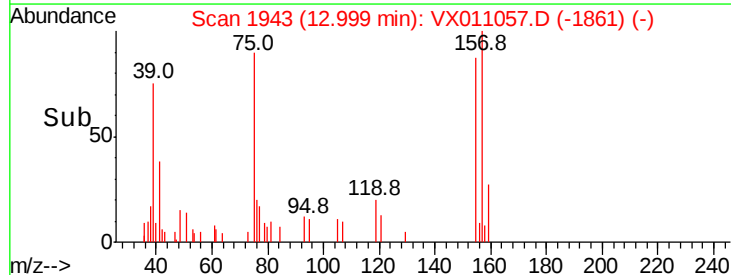
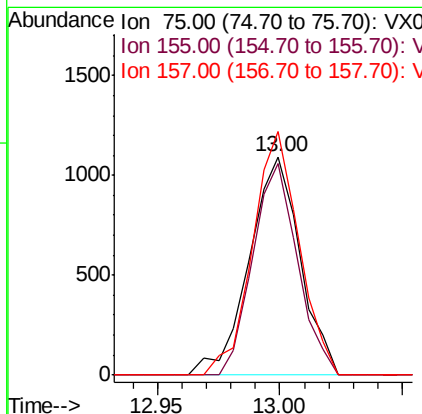
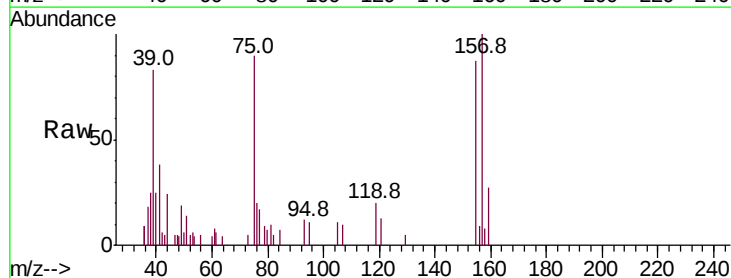
Manual Integrations
 APPROVED

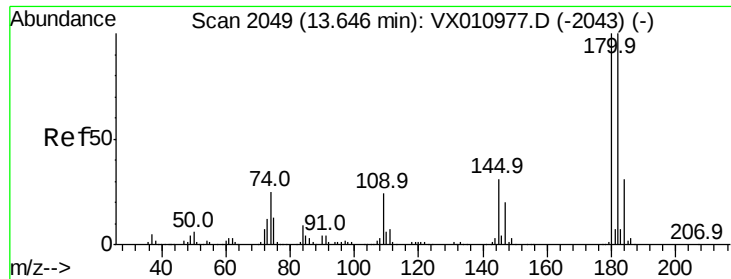
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#88
 1,2-Dibromo-3-Chloropropane
 Concen: 2.121 ug/l
 RT: 13.00 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VX011057.D
 Acq: 24 Jul 2019 13:19

Tgt Ion	Ratio	Lower	Upper
75	100		
155	85.0	76.6	115.0
157	101.6	101.0	151.4





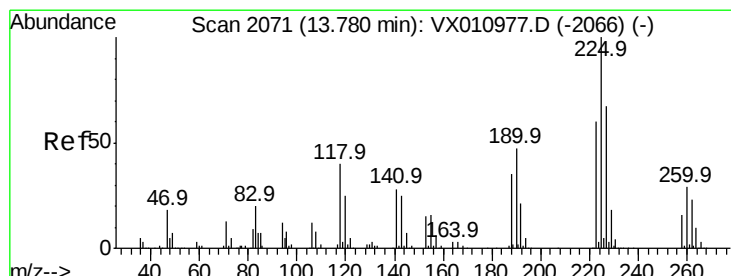
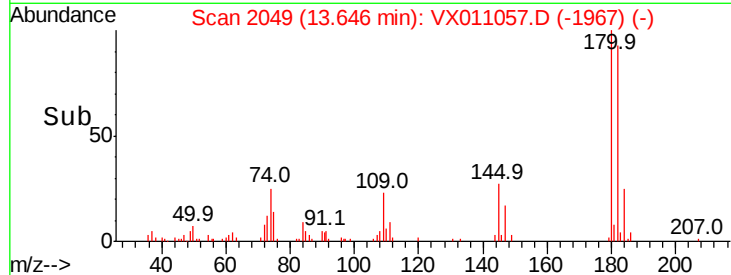
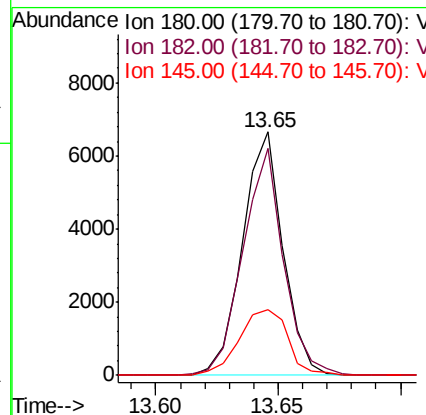
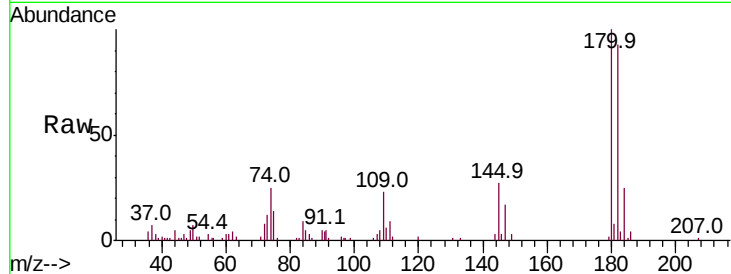
#89
 1,2,4-Trichlorobenzene
 Concen: 2.279 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. 0.00 min
 Lab File: VX011057.D
 Acq: 24 Jul 2019 13:19

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.9	77.6	116.4
145	32.5	23.8	35.6

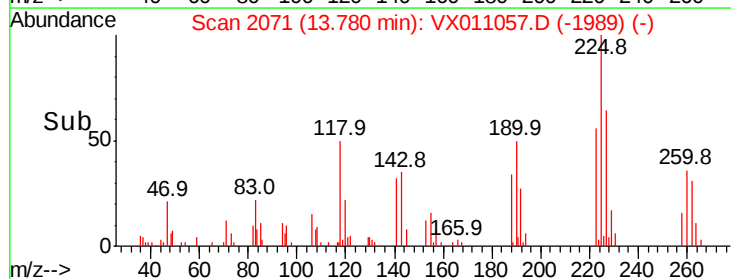
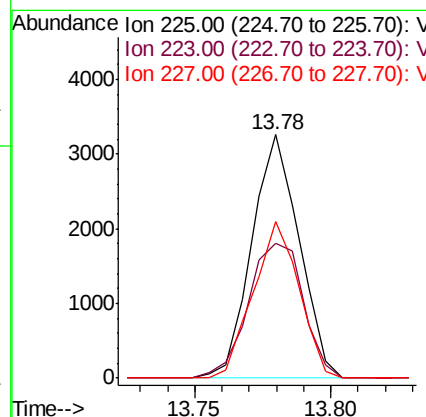
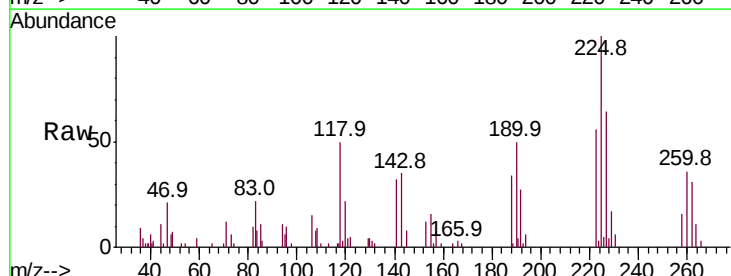
Manual Integrations
 APPROVED

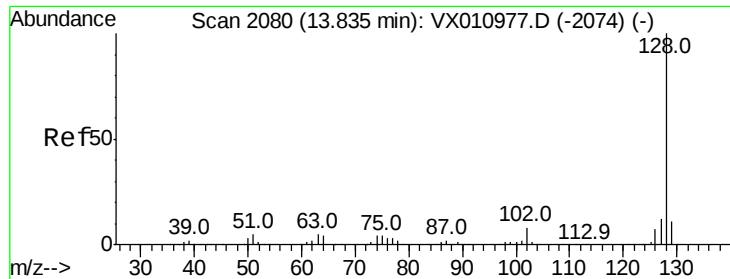
MMDadoda
 7/25/2019 3:54:45 PM



#90
 Hexachlorobutadiene
 Concen: 2.417 ug/l
 RT: 13.78 min Scan# 2071
 Delta R.T. 0.00 min
 Lab File: VX011057.D
 Acq: 24 Jul 2019 13:19

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.9	0.0	121.4
227	62.3	0.0	126.6





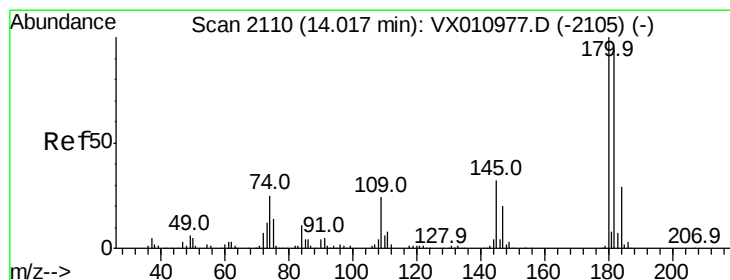
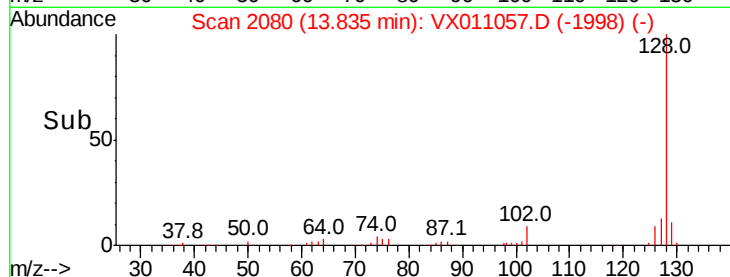
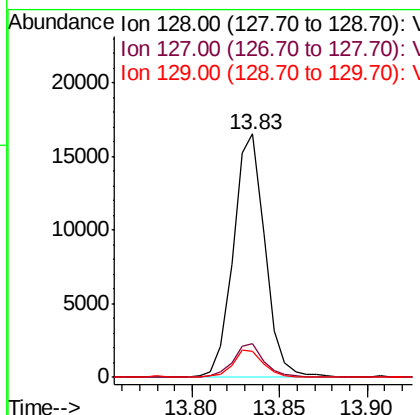
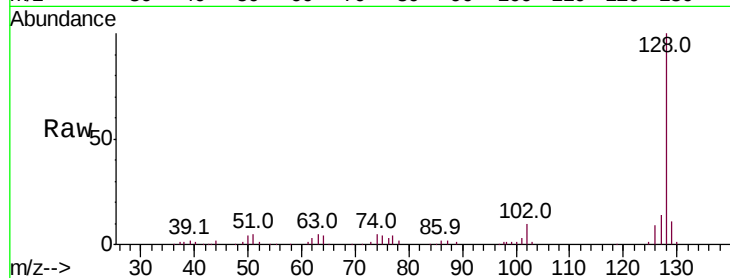
#91
Naphthalene
Concen: 2.020 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.2	15.2
129	11.0	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
7/25/2019 3:54:45 PM



#92
1,2,3-Trichlorobenzene
Concen: 2.297 ug/l
RT: 14.02 min Scan# 2110
Delta R.T. 0.00 min
Lab File: VX011057.D
Acq: 24 Jul 2019 13:19

Tgt Ion	Ratio	Lower	Upper
180	100		
182	99.9	0.0	190.2
145	32.2	0.0	63.8

