

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072319\
 Data File : VX011049.D
 Acq On : 23 Jul 2019 10:55
 Operator : JC/SP
 Sample : K3591-09 0.5PPB MDL
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 7/25/2019 3:06:46 PM

Quant Time: Jul 24 05:39:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 24 05:29:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	216324	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	322598	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	285190	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	140874	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	110907	48.19	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	96.38%	
35) Dibromofluoromethane	5.49	113	97402	47.57	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	95.14%	
50) Toluene-d8	8.71	98	365527	47.60	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	95.20%	
62) 4-Bromofluorobenzene	11.13	95	129625	45.92	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	91.84%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	664	0.329	ug/l	99
3) Chloromethane	1.33	50	1062	0.534	ug/l	99
4) Vinyl Chloride	1.41	62	824	0.406	ug/l #	70
5) Bromomethane	1.64	94	1049	0.917	ug/l	94
6) Chloroethane	1.73	64	2108	1.635	ug/l #	65
7) Trichlorofluoromethane	1.93	101	1619	0.471	ug/l	88
8) Diethyl Ether	2.19	74	860	0.727	ug/l	56
9) 1,1,2-Trichlorotrifluoroet	2.39	101	998	0.509	ug/l	95
10) Methyl Iodide	2.51	142	1181	0.459	ug/l #	88
11) Tert butyl alcohol	3.01	59	6584	12.284	ug/l #	84
12) 1,1-Dichloroethene	2.37	96	904	0.469	ug/l #	80
13) Acrolein	2.29	56	763	2.464	ug/l #	59
14) Allyl chloride	2.73	41	1212	0.433	ug/l #	88
15) Acrylonitrile	3.14	53	2779	2.566	ug/l	90
16) Acetone	2.44	43	3076	2.959	ug/l	100
17) Carbon Disulfide	2.57	76	2289	0.463	ug/l	99
18) Methyl Acetate	2.78	43	2124	0.897	ug/l	99
19) Methyl tert-butyl Ether	3.19	73	3090	0.498	ug/l	98
20) Methylene Chloride	2.86	84	1522	0.691	ug/l #	78
21) trans-1,2-Dichloroethene	3.17	96	995	0.487	ug/l	91
22) Diisopropyl ether	3.85	45	3054	0.517	ug/l #	80
23) Vinyl Acetate	3.82	43	9651	1.930	ug/l	99
24) 1,1-Dichloroethane	3.69	63	1797	0.524	ug/l #	92
25) 2-Butanone	4.68	43	4109	2.754	ug/l	97
26) 2,2-Dichloropropane	4.58	77	1299	0.461	ug/l	88
27) cis-1,2-Dichloroethene	4.61	96	1110m	0.469	ug/l	
28) Bromochloromethane	5.02	49	1026	0.635	ug/l #	73
29) Tetrahydrofuran	5.15	42	2381	2.519	ug/l #	86
30) Chloroform	5.21	83	2567	0.693	ug/l	89
31) Cyclohexane	5.58	56	1509	0.483	ug/l #	65
32) 1,1,1-Trichloroethane	5.49	97	1635	0.510	ug/l #	36
36) 1,1-Dichloropropene	5.79	75	1528	0.577	ug/l	94
37) Ethyl Acetate	4.83	43	1266	0.467	ug/l #	86
38) Carbon Tetrachloride	5.79	117	1376	0.498	ug/l #	77

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	1642	0.478	ug/l	92
40) Benzene	6.14	78	4183	0.515	ug/l	100
41) Methacrylonitrile	5.05	41	1050	0.682	ug/l #	80
42) 1,2-Dichloroethane	6.19	62	1630	0.578	ug/l	93
43) Isopropyl Acetate	6.45	43	1900	0.426	ug/l #	67
44) Trichloroethene	7.21	130	1180	0.491	ug/l	82
45) 1,2-Dichloropropane	7.51	63	1211	0.586	ug/l	91
46) Dibromomethane	7.66	93	784	0.531	ug/l	96
47) Bromodichloromethane	7.90	83	1248	0.475	ug/l #	79
48) Methyl methacrylate	7.77	41	1173	0.540	ug/l #	74
49) 1,4-Dioxane	7.76	88	608	10.000	ug/l #	57
51) 4-Methyl-2-Pentanone	8.64	43	6503	2.248	ug/l	98
52) Toluene	8.79	92	2558	0.480	ug/l	99
53) t-1,3-Dichloropropene	9.04	75	1124	0.398	ug/l #	85
54) cis-1,3-Dichloropropene	8.44	75	1260	0.401	ug/l	92
55) 1,1,2-Trichloroethane	9.21	97	1085	0.494	ug/l	94
56) Ethyl methacrylate	9.18	69	1550	0.483	ug/l #	87
57) 1,3-Dichloropropane	9.37	76	1764	0.506	ug/l	95
58) 2-Chloroethyl Vinyl ether	8.31	63	3235	2.110	ug/l	94
59) 2-Hexanone	9.49	43	4825	2.151	ug/l	93
60) Dibromochloromethane	9.58	129	957	0.430	ug/l	100
61) 1,2-Dibromoethane	9.67	107	1002	0.430	ug/l	85
64) Tetrachloroethene	9.33	164	1389	0.619	ug/l #	76
65) Chlorobenzene	10.14	112	2911	0.497	ug/l	94
66) 1,1,1,2-Tetrachloroethane	10.22	131	1007	0.489	ug/l #	62
67) Ethyl Benzene	10.25	91	4884	0.490	ug/l	99
68) m/p-Xylenes	10.36	106	3598	0.941	ug/l	95
69) o-Xylene	10.69	106	1782	0.477	ug/l	98
70) Styrene	10.71	104	2609	0.419	ug/l	95
71) Bromoform	10.85	173	686	0.418	ug/l #	90
73) Isopropylbenzene	11.02	105	4673	0.491	ug/l	98
74) N-amyl acetate	10.90	43	1436	0.395	ug/l #	83
75) 1,1,2,2-Tetrachloroethane	11.26	83	1457	0.468	ug/l	95
76) 1,2,3-Trichloropropane	11.29	75	1316m	0.518	ug/l	
77) Bromobenzene	11.26	156	1359	0.518	ug/l	94
78) n-propylbenzene	11.36	91	4924	0.468	ug/l	94
79) 2-Chlorotoluene	11.42	91	3251	0.515	ug/l	97
80) 1,3,5-Trimethylbenzene	11.51	105	3661	0.460	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.07	75	358m	0.387	ug/l	
82) 4-Chlorotoluene	11.51	91	3522	0.479	ug/l	96
83) tert-Butylbenzene	11.76	119	3797	0.486	ug/l	93
84) 1,2,4-Trimethylbenzene	11.80	105	3846	0.480	ug/l	100
85) sec-Butylbenzene	11.94	105	4059	0.443	ug/l	96
86) p-Isopropyltoluene	12.06	119	3540	0.418	ug/l #	75
87) 1,3-Dichlorobenzene	12.02	146	2484	0.545	ug/l	100
88) 1,4-Dichlorobenzene	12.09	146	2647m	0.566	ug/l	
89) n-Butylbenzene	12.38	91	3010	0.416	ug/l	96
90) Hexachloroethane	12.60	117	548	0.411	ug/l	99
91) 1,2-Dichlorobenzene	12.39	146	2294	0.508	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	12.99	75	324	0.498	ug/l	75

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

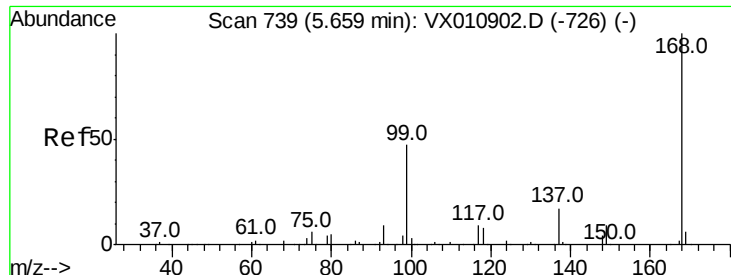
Manual Integrations
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	1730	0.565	ug/l	87
94) Hexachlorobutadiene	13.78	225	782	0.516	ug/l	96
95) Naphthalene	13.83	128	3903	0.432	ug/l #	91
96) 1,2,3-Trichlorobenzene	14.02	180	1643	0.540	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.01 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion:168 Resp: 216324

Ion Ratio Lower Upper

168 100

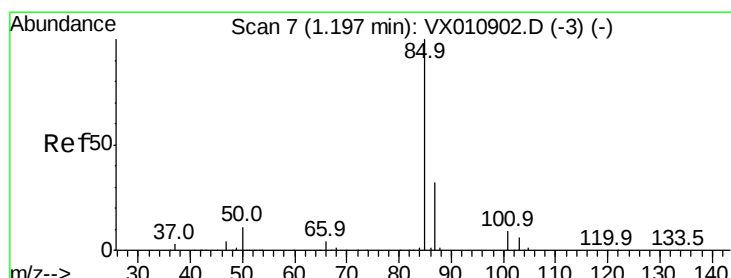
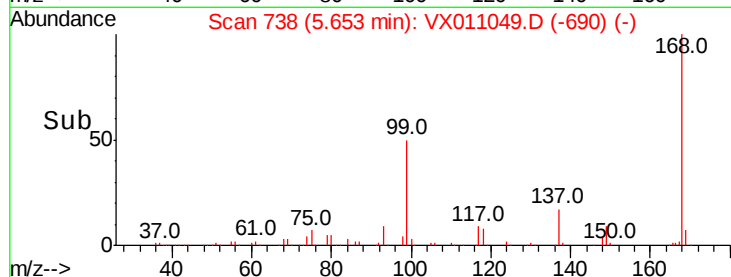
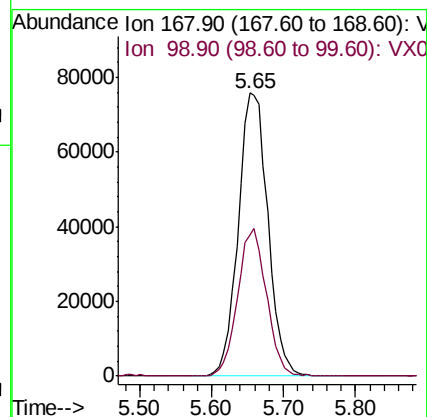
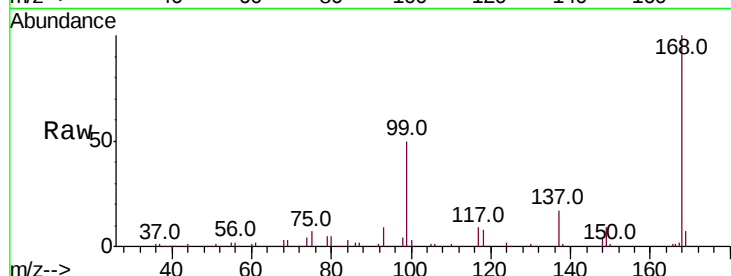
99 50.0 37.6 56.4

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 0.329 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX011049.D

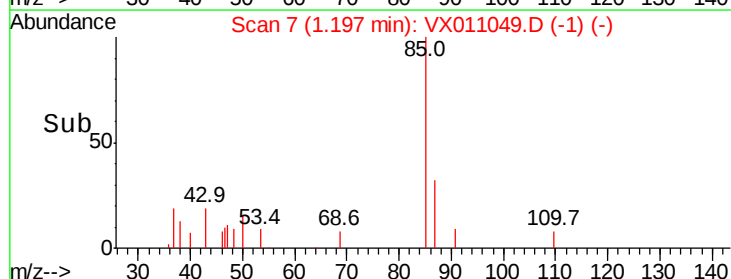
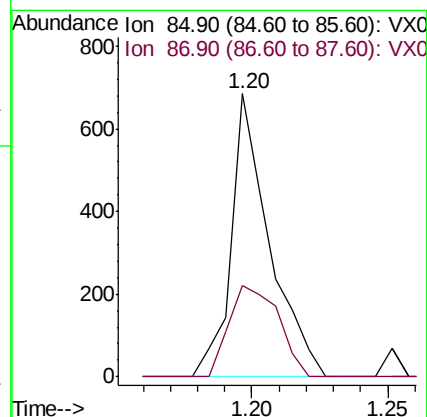
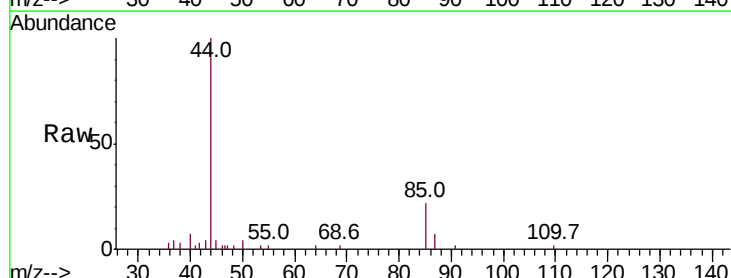
Acq: 23 Jul 2019 10:55

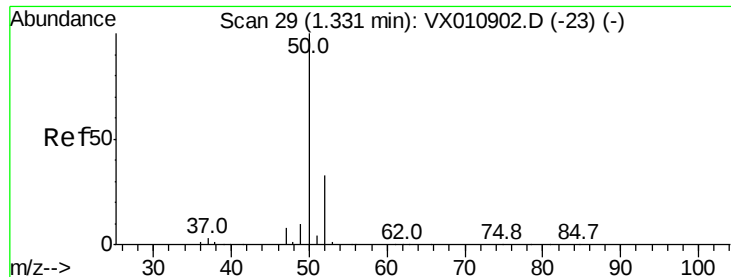
Tgt Ion: 85 Resp: 664

Ion Ratio Lower Upper

85 100

87 32.4 15.9 47.7





#3

Chloromethane

Concen: 0.534 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion: 50 Resp: 1062

Ion Ratio Lower Upper

50 100

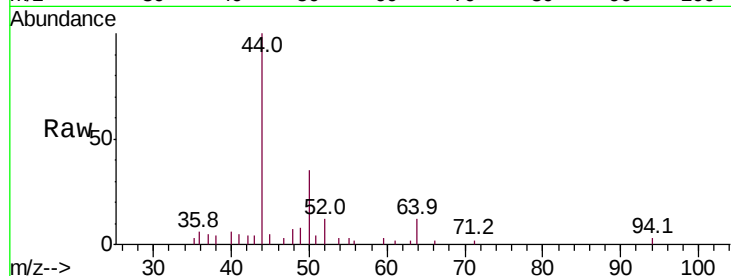
52 33.5 26.4 39.6

Manual Integrations

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Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

800

600

400

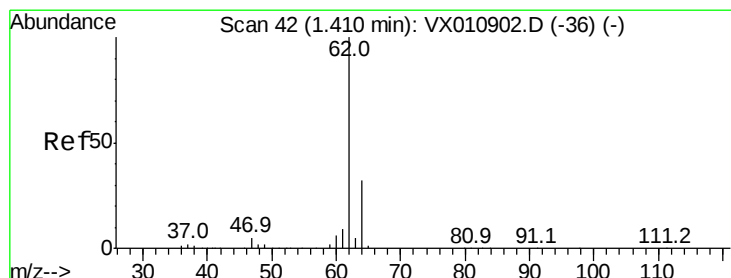
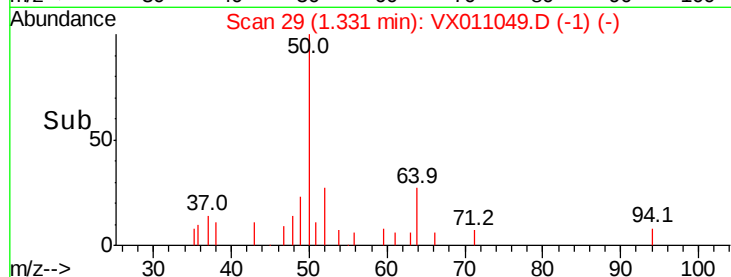
200

0

1.30

1.35

Time-->



#4

Vinyl Chloride

Concen: 0.406 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX011049.D

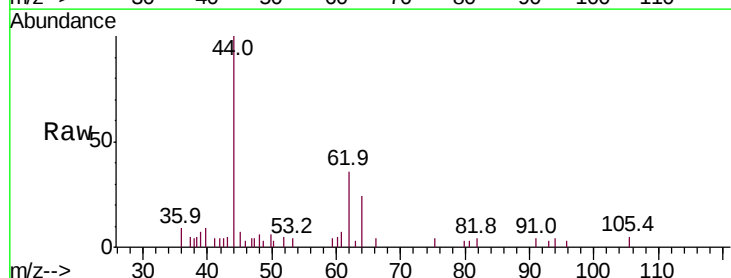
Acq: 23 Jul 2019 10:55

Tgt Ion: 62 Resp: 824

Ion Ratio Lower Upper

62 100

64 49.1 25.7 38.5#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

800

600

400

200

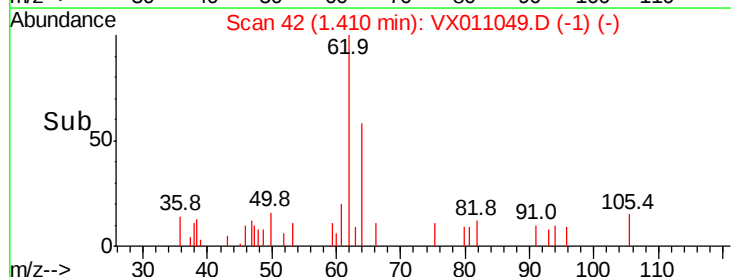
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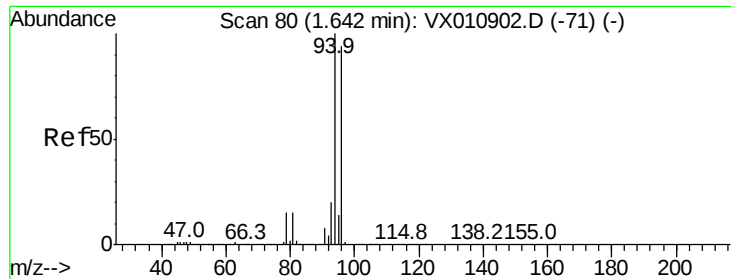
1.35

1.40

1.45

Time-->





#5

Bromomethane

Concen: 0.917 ug/l

RT: 1.64 min Scan# 80

Delta R.T. -0.00 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion: 94 Resp: 1049

Ion Ratio Lower Upper

94 100

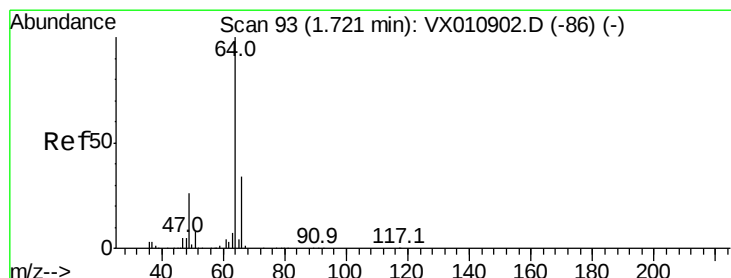
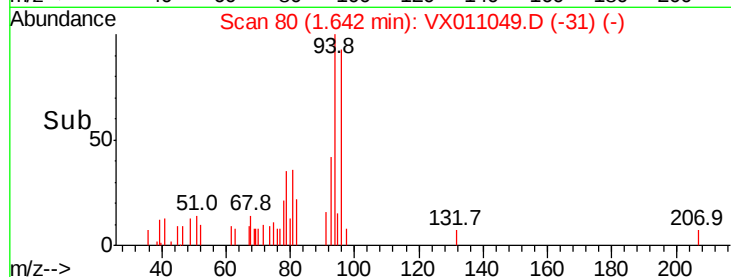
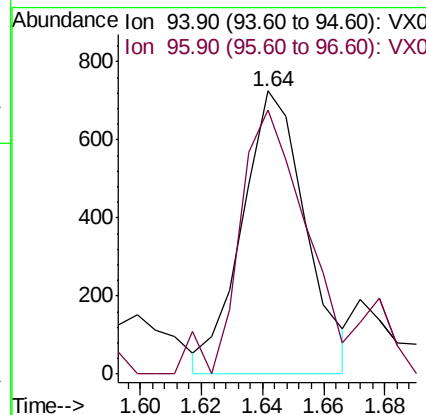
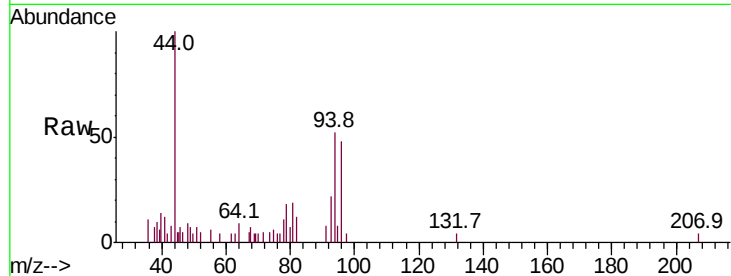
96 88.7 75.6 113.4

Manual Integrations

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#6

Chloroethane

Concen: 1.635 ug/l

RT: 1.73 min Scan# 95

Delta R.T. 0.01 min

Lab File: VX011049.D

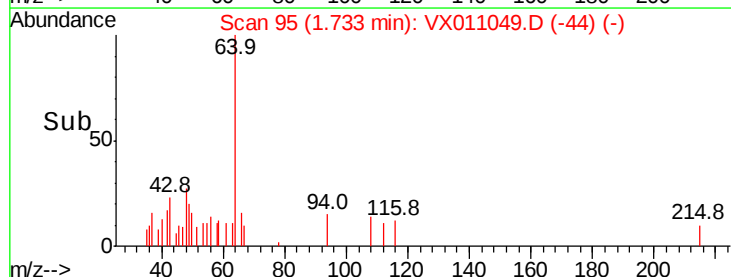
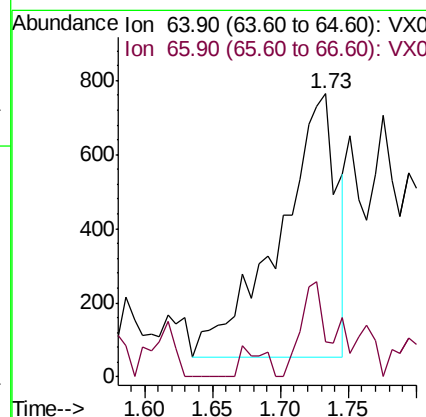
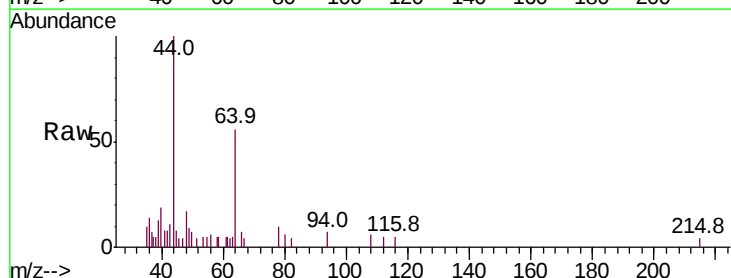
Acq: 23 Jul 2019 10:55

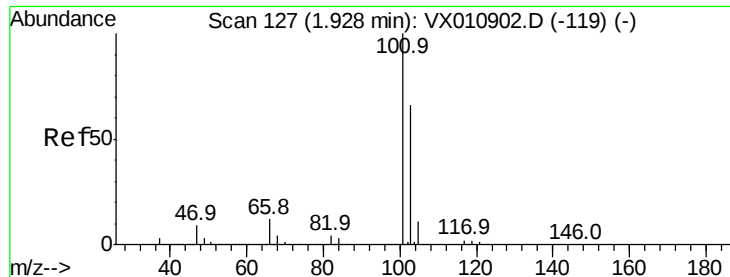
Tgt Ion: 64 Resp: 2108

Ion Ratio Lower Upper

64 100

66 13.5 27.0 40.6#





#7

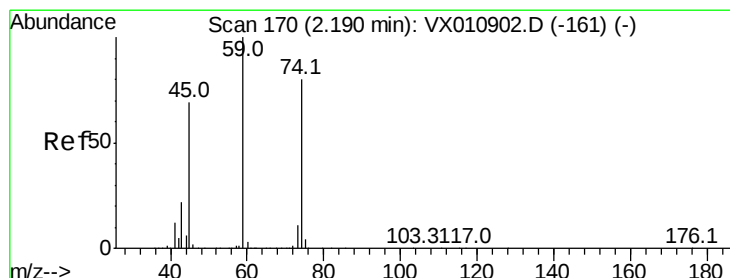
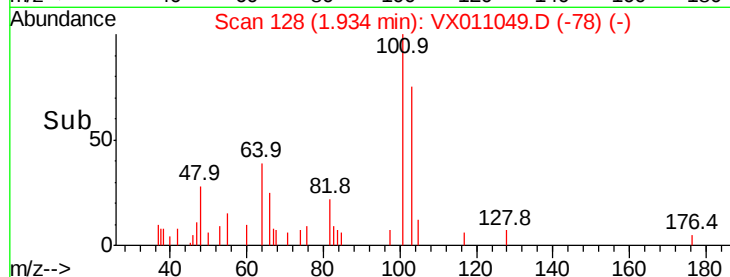
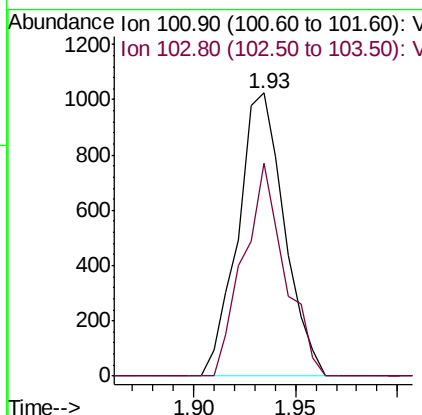
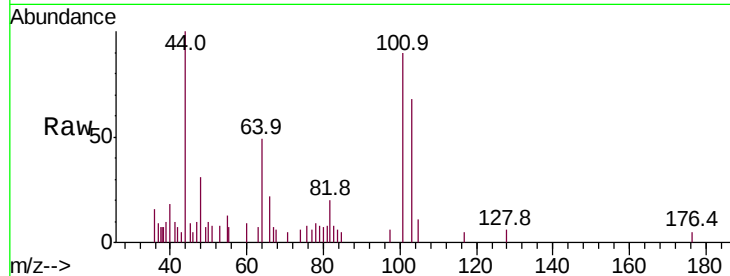
Trichlorofluoromethane
Concen: 0.471 ug/l
RT: 1.93 min Scan# 128
Delta R.T. 0.01 min
Lab File: VX011049.D
Acq: 23 Jul 2019 10:55

Instrument :
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MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion:101 Resp: 1619
Ion Ratio Lower Upper
101 100
103 75.4 52.6 78.8

Manual Integrations
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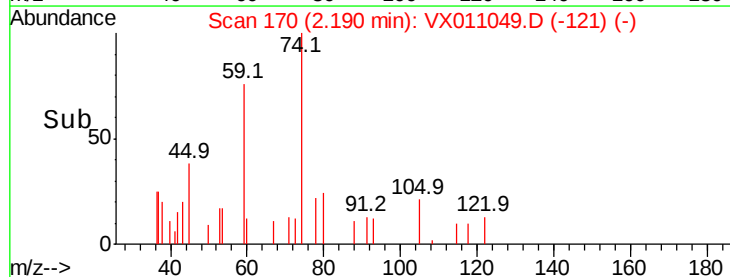
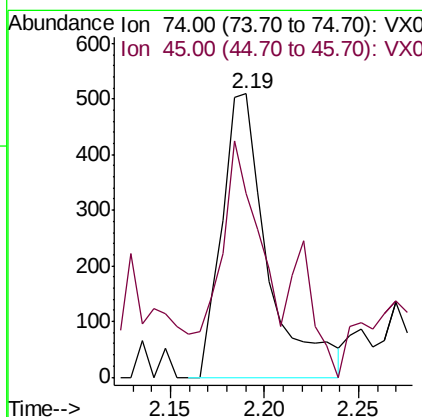
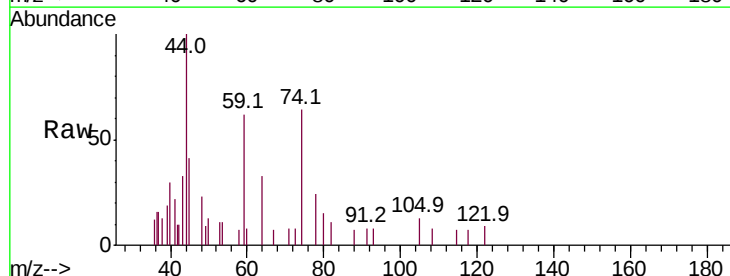
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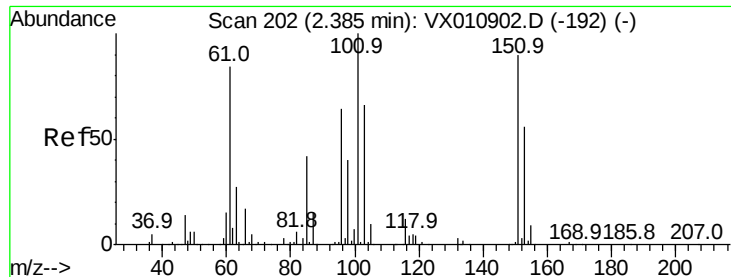


#8

Diethyl Ether
Concen: 0.727 ug/l
RT: 2.19 min Scan# 170
Delta R.T. -0.00 min
Lab File: VX011049.D
Acq: 23 Jul 2019 10:55

Tgt Ion: 74 Resp: 860
Ion Ratio Lower Upper
74 100
45 48.8 45.5 136.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.509 ug/l

RT: 2.39 min Scan# 202

Delta R.T. -0.00 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Instrument :

MSVOA_X

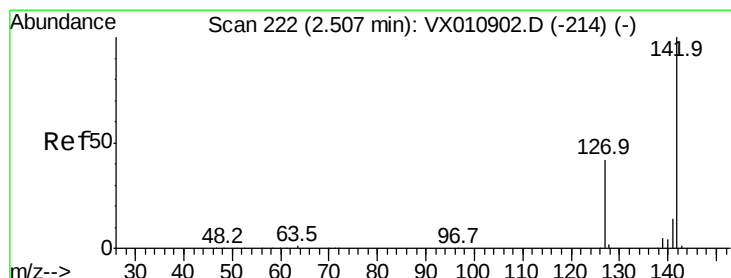
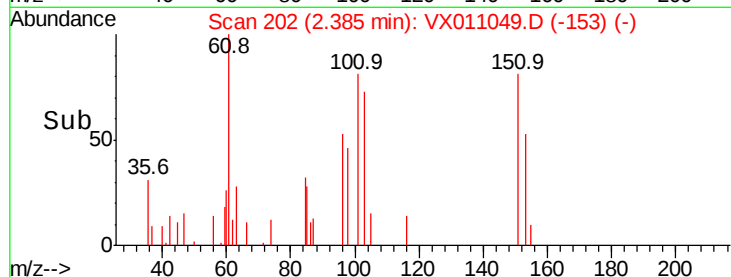
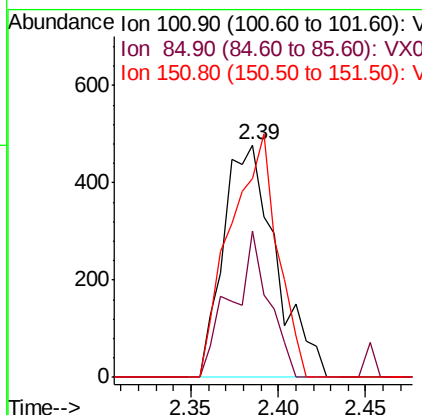
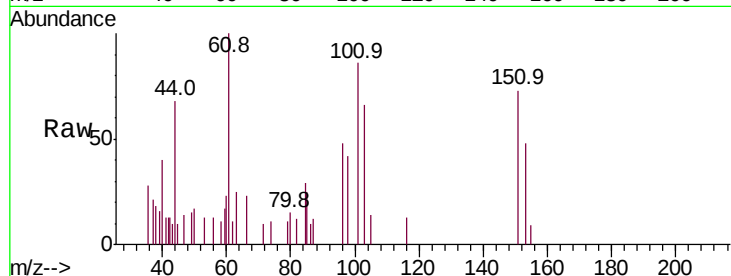
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion:	101	Resp:	998
Ion Ratio	Lower	Upper	
101	100		
85	44.7	34.6	52.0
151	93.6	69.6	104.4

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#10

Methyl Iodide

Concen: 0.459 ug/l

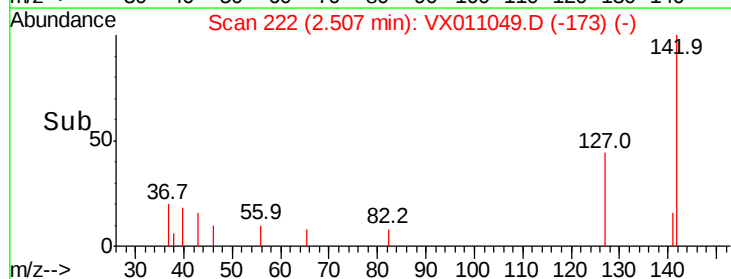
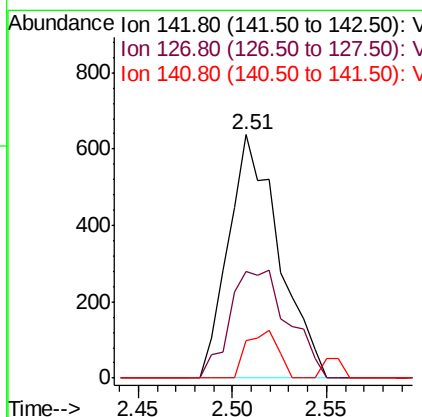
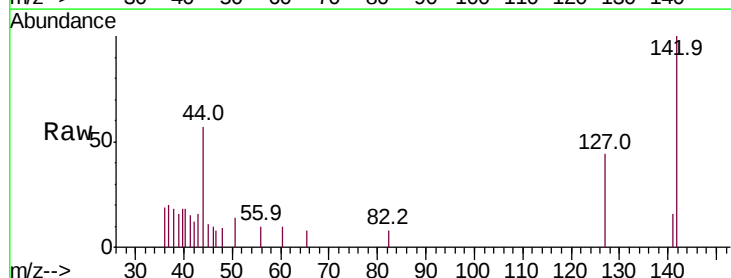
RT: 2.51 min Scan# 222

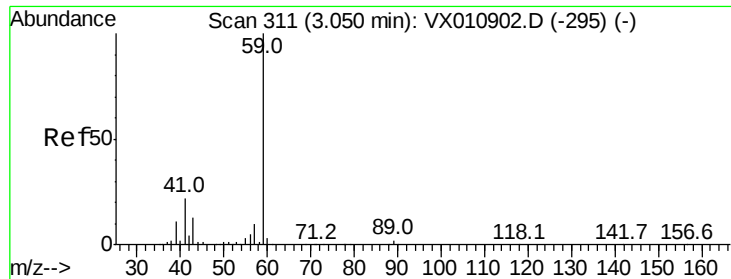
Delta R.T. -0.00 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Tgt Ion:	142	Resp:	1181
Ion Ratio	Lower	Upper	
142	100		
127	51.5	34.2	51.4#
141	12.1	11.7	17.5





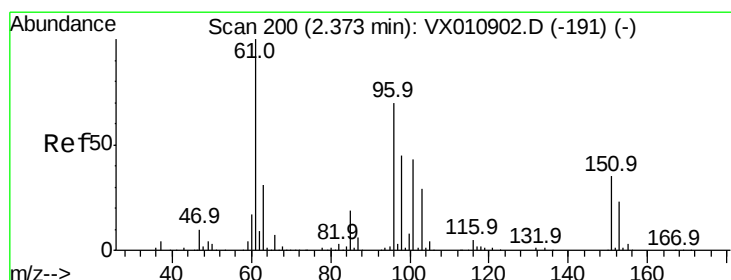
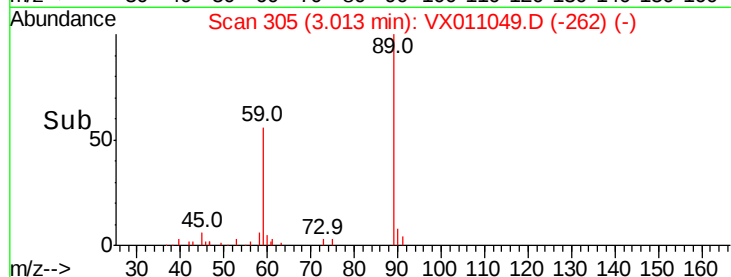
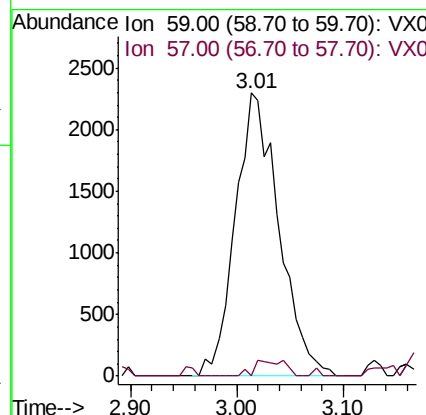
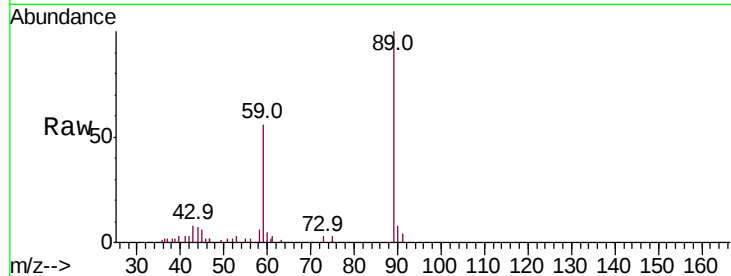
#11
Tert butyl alcohol
Concen: 12.284 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX011049.D
Acq: 23 Jul 2019 10:55

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

Tot Ion: 59 Resp: 6584
Ion Ratio Lower Upper
59 100
57 3.9 7.9 11.9#

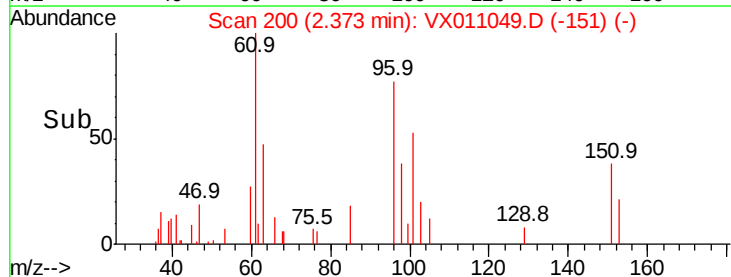
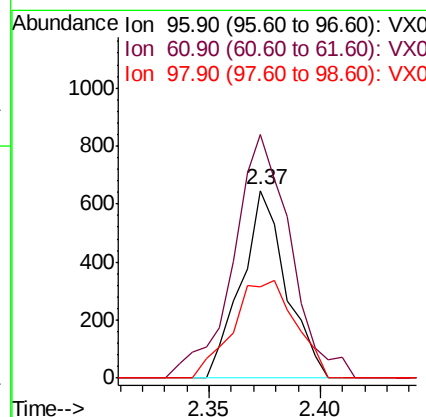
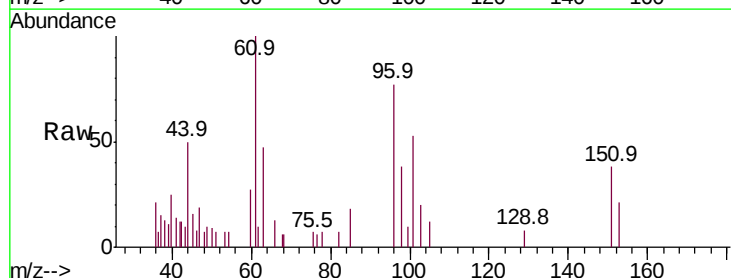
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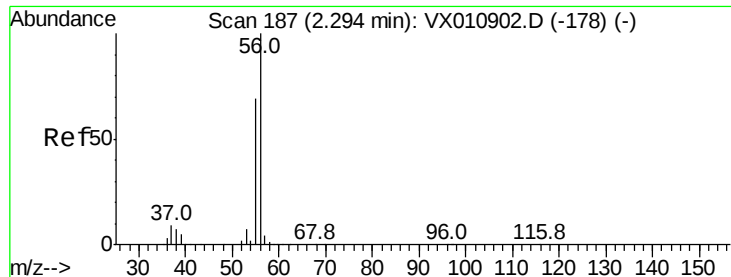
MMDadoda
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#12
1,1-Dichloroethene
Concen: 0.469 ug/l
RT: 2.37 min Scan# 200
Delta R.T. -0.00 min
Lab File: VX011049.D
Acq: 23 Jul 2019 10:55

Tgt Ion: 96 Resp: 904
Ion Ratio Lower Upper
96 100
61 118.7 115.0 172.4
98 48.8 52.2 78.2#





#13

Acrolein

Concen: 2.464 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion: 56 Resp: 763

Ion Ratio Lower Upper

56 100

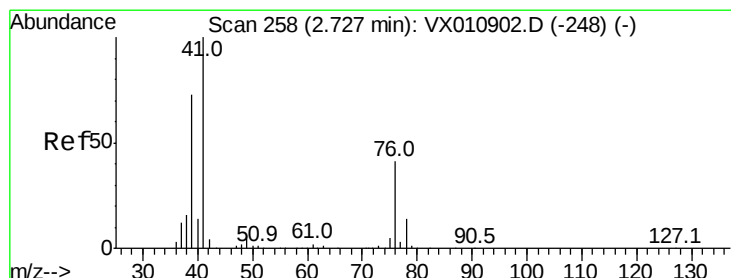
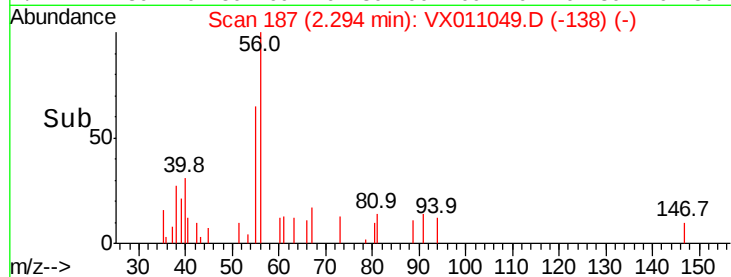
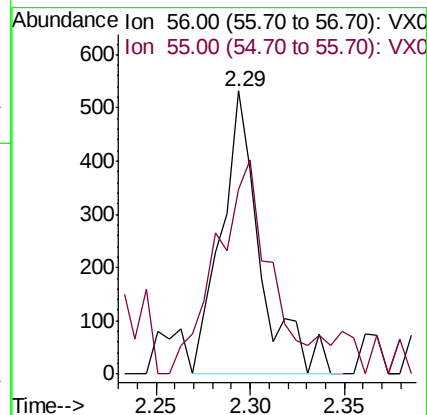
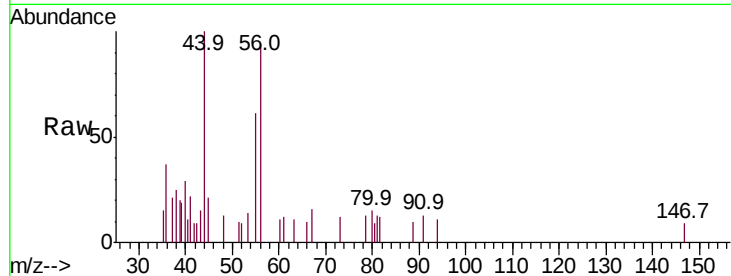
55 103.1 55.9 83.9#

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#14

Allyl chloride

Concen: 0.433 ug/l

RT: 2.73 min Scan# 259

Delta R.T. 0.01 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

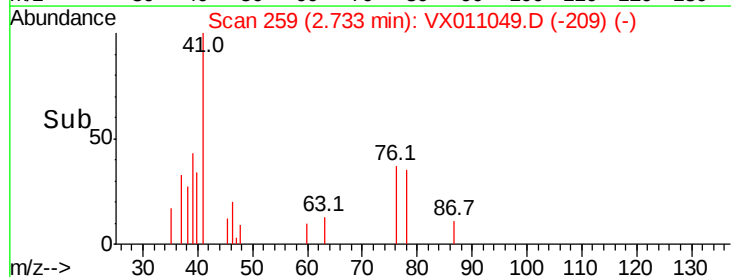
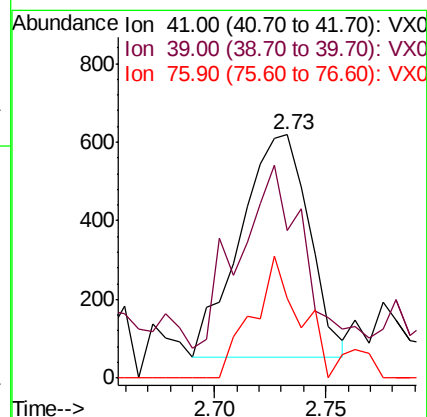
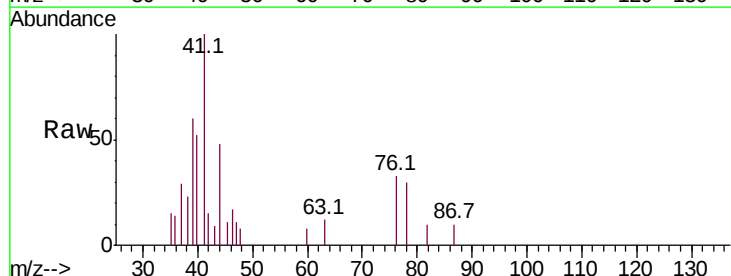
Tgt Ion: 41 Resp: 1212

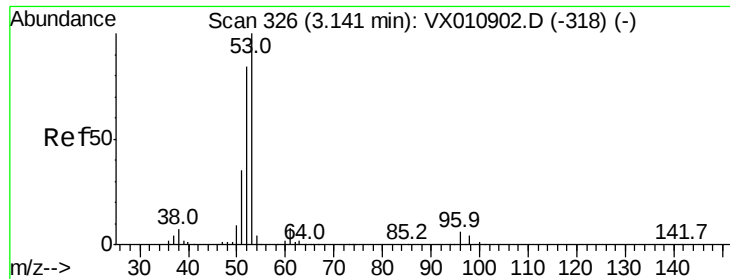
Ion Ratio Lower Upper

41 100

39 80.9 53.6 80.4#

76 38.8 29.7 44.5





#15

Acrylonitrile

Concen: 2.566 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Instrument :

MSVOA_X

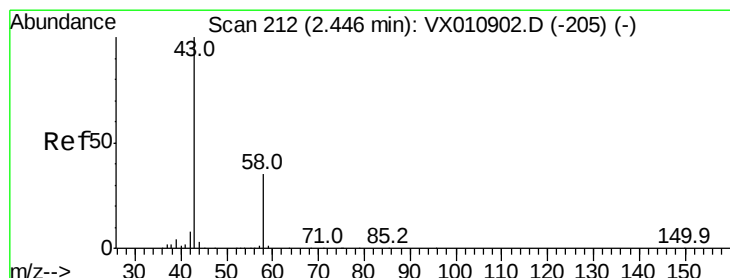
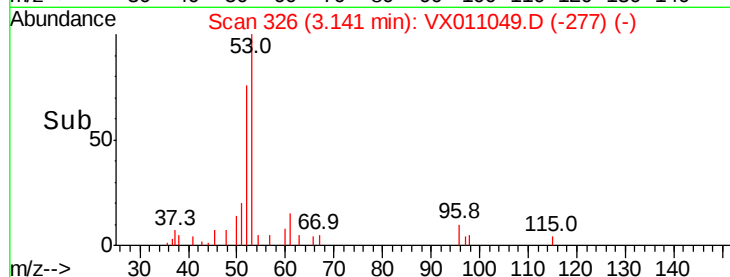
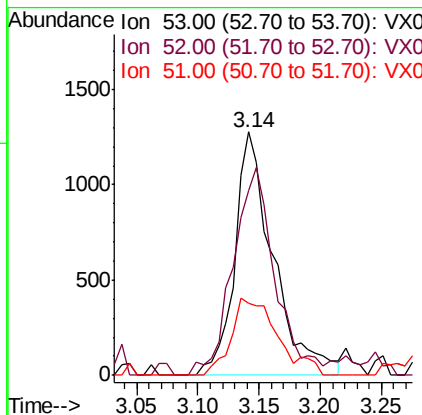
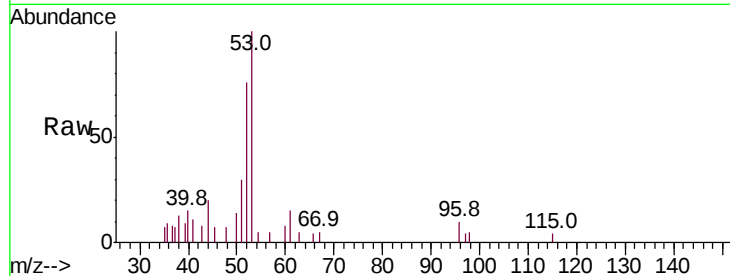
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion:	53	Resp:	2779
Ion	Ratio	Lower	Upper
53	100		
52	93.3	66.5	99.7
51	38.4	28.2	42.4

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#16

Acetone

Concen: 2.959 ug/l

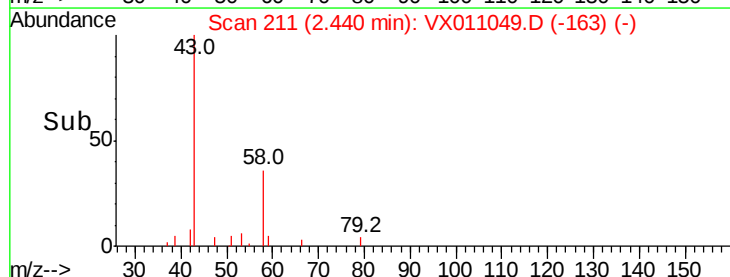
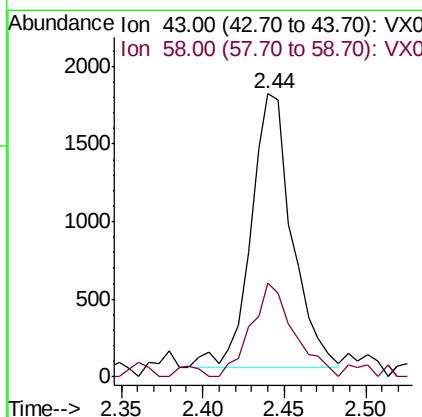
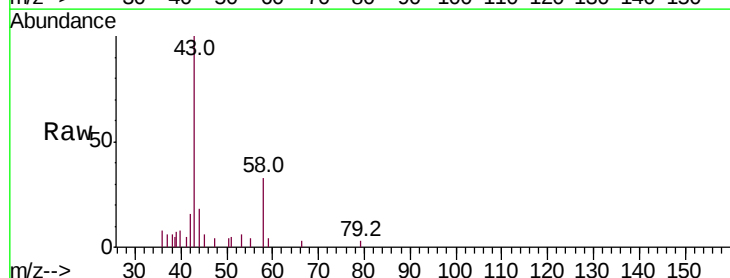
RT: 2.44 min Scan# 211

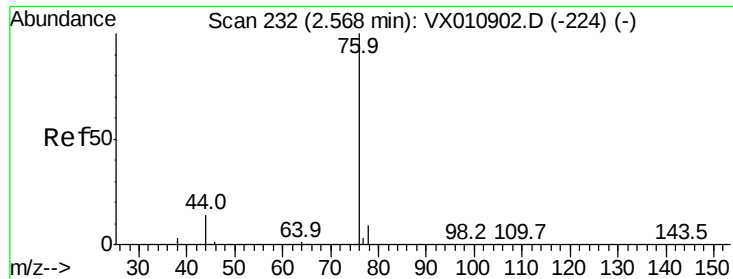
Delta R.T. -0.01 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Tgt Ion:	43	Resp:	3076
Ion	Ratio	Lower	Upper
43	100		
58	34.6	27.7	41.5





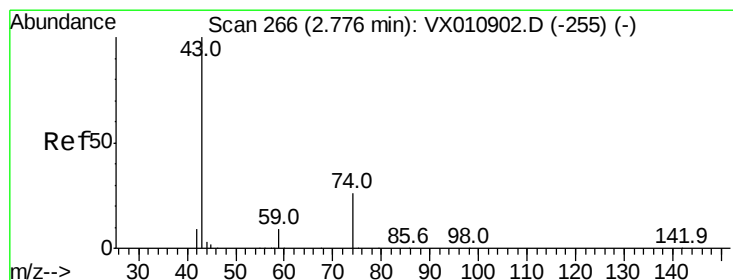
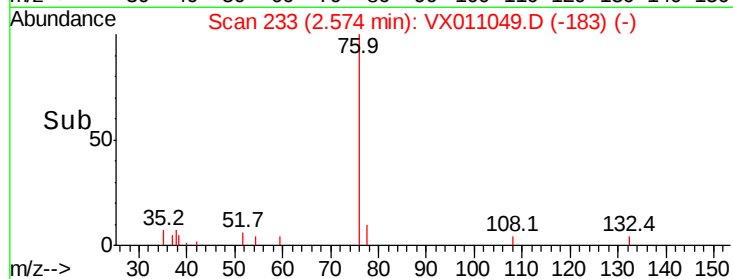
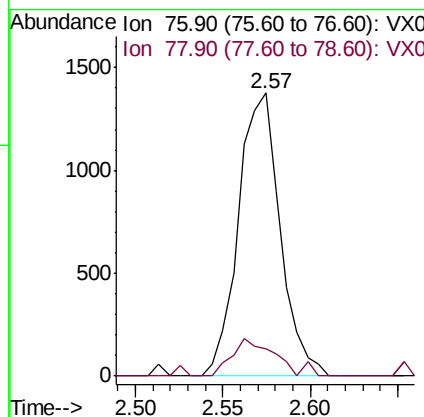
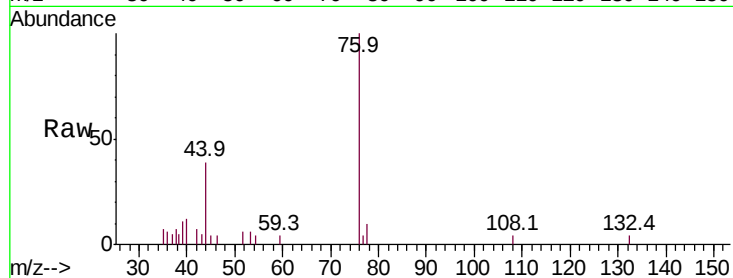
#17
Carbon Disulfide
Concen: 0.463 ug/l
RT: 2.57 min Scan# 233
Delta R.T. 0.01 min
Lab File: VX011049.D
Acq: 23 Jul 2019 10:55

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

Tot Ion: 76 Resp: 2289
Ion Ratio Lower Upper
76 100
78 9.6 7.4 11.0

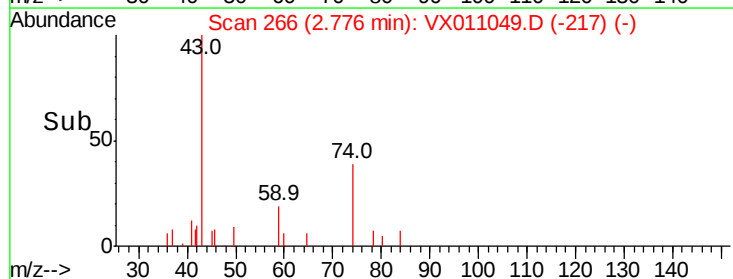
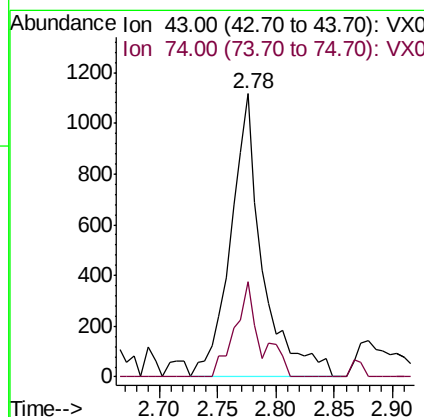
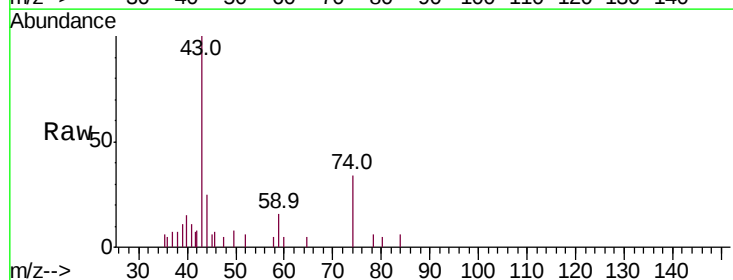
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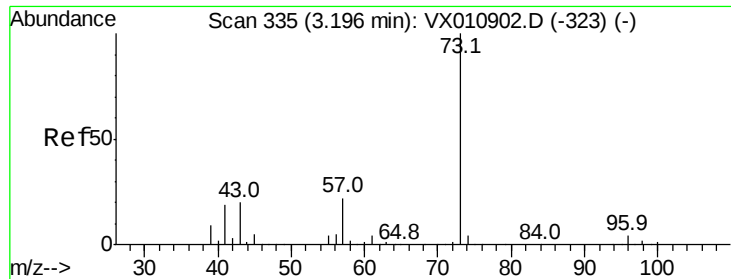
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#18
Methyl Acetate
Concen: 0.897 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.00 min
Lab File: VX011049.D
Acq: 23 Jul 2019 10:55

Tgt Ion: 43 Resp: 2124
Ion Ratio Lower Upper
43 100
74 27.3 21.5 32.3





#19

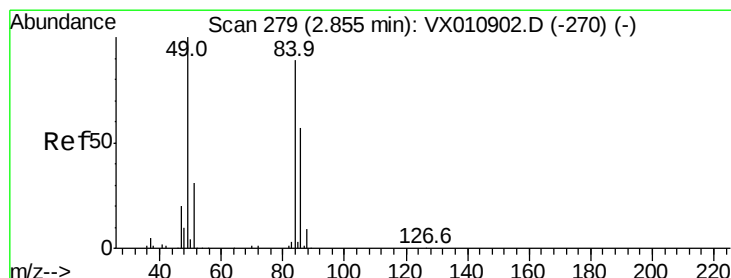
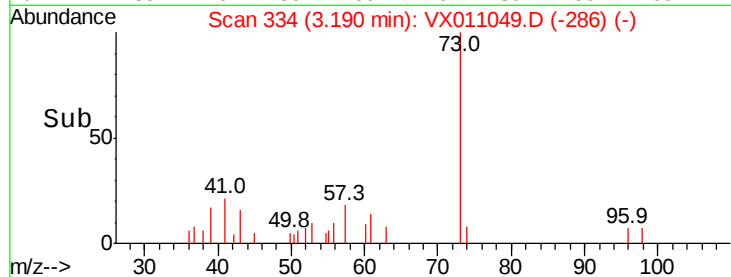
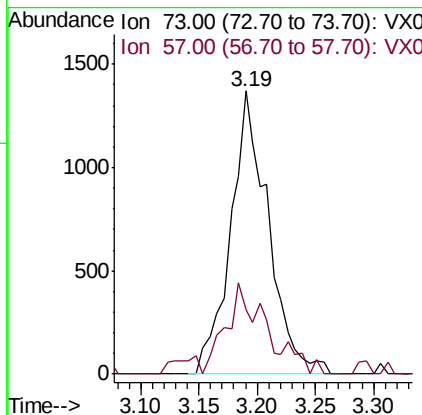
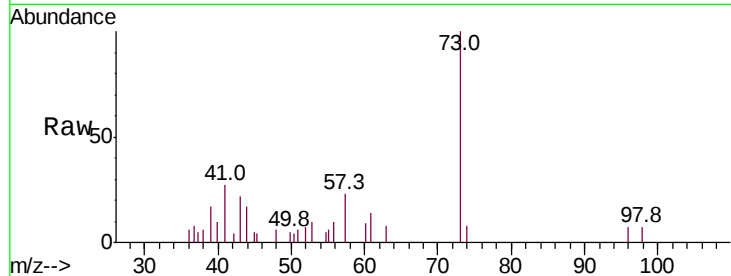
Methyl tert-butyl Ether
 Concen: 0.498 ug/l
 RT: 3.19 min Scan# 334
 Delta R.T. -0.01 min
 Lab File: VX011049.D
 Acq: 23 Jul 2019 10:55

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

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.7	17.3	25.9

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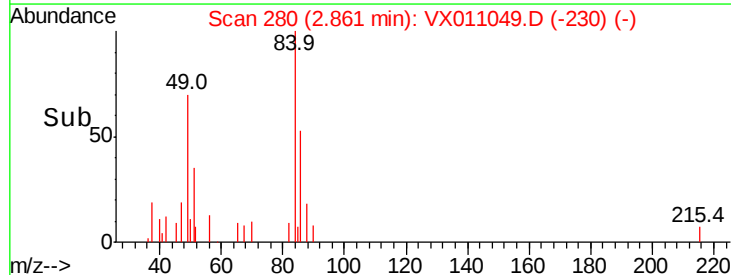
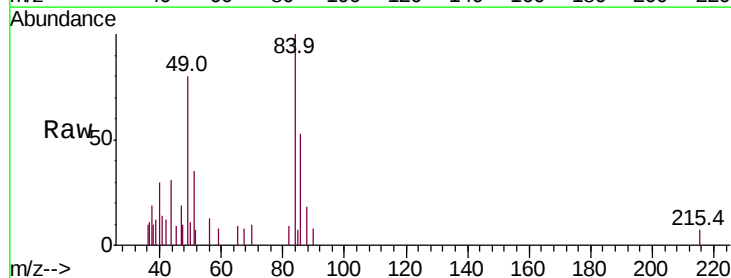
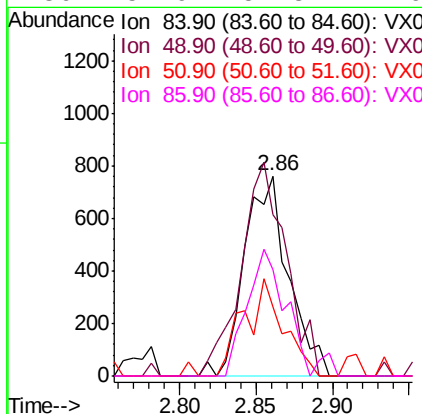
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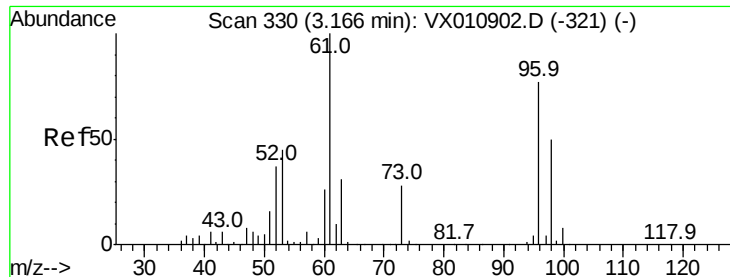


#20

Methylene Chloride
 Concen: 0.691 ug/l
 RT: 2.86 min Scan# 280
 Delta R.T. 0.01 min
 Lab File: VX011049.D
 Acq: 23 Jul 2019 10:55

Tgt Ion	Ratio	Lower	Upper
84	100		
49	80.3	89.9	134.9#
51	41.6	27.8	41.6
86	52.9	51.8	77.6





#21

trans-1,2-Dichloroethene

Concen: 0.487 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion: 96 Resp: 995

Ion Ratio Lower Upper

96 100

61 119.2 104.2 156.2

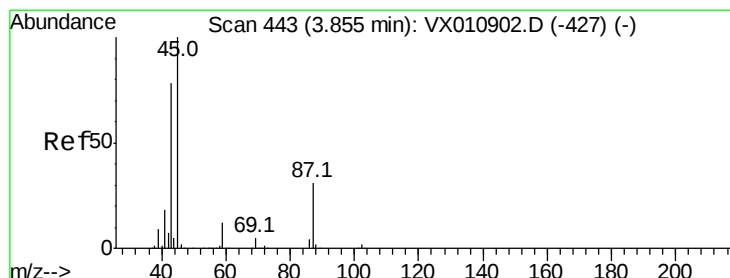
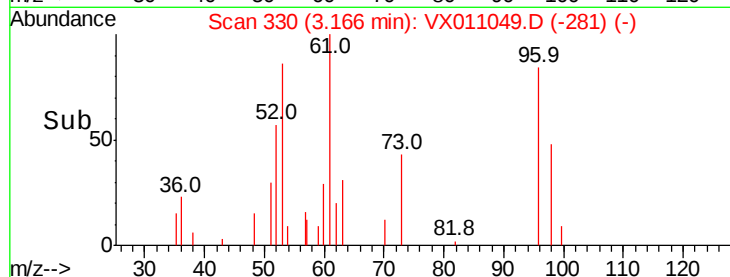
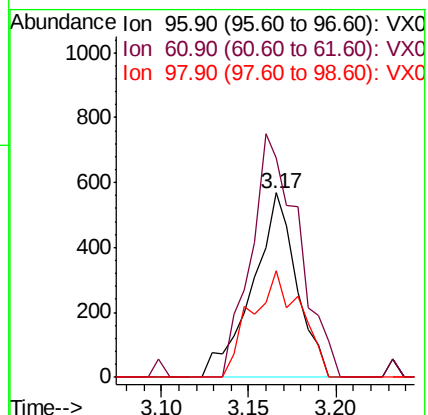
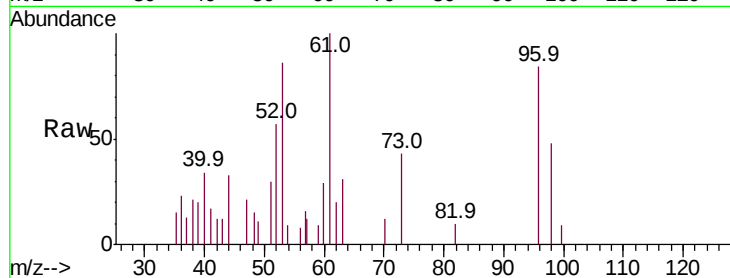
98 57.7 52.2 78.4

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#22

Diisopropyl ether

Concen: 0.517 ug/l

RT: 3.85 min Scan# 443

Delta R.T. -0.00 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Tgt Ion: 45 Resp: 3054

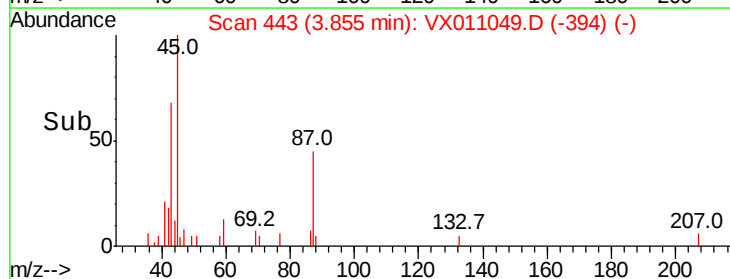
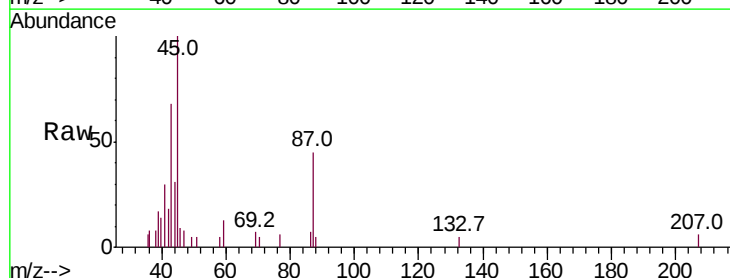
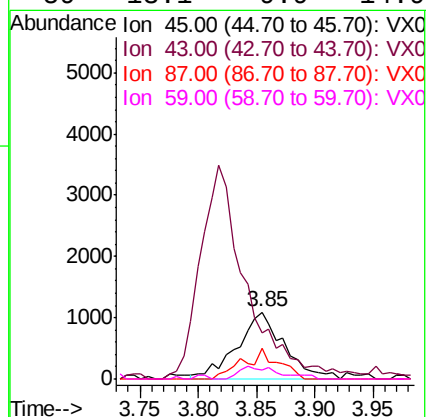
Ion Ratio Lower Upper

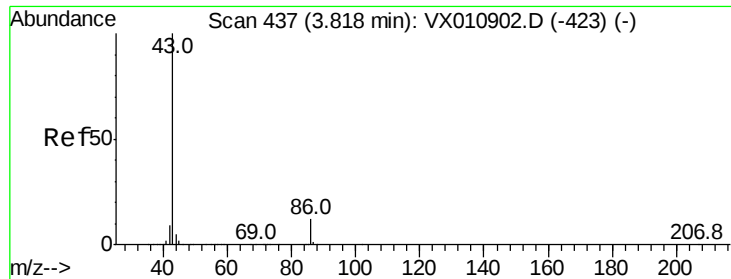
45 100

43 59.2 62.3 93.5#

87 44.8 25.0 37.4#

59 13.1 9.9 14.9





#23

Vinyl Acetate

Concen: 1.930 ug/l

RT: 3.82 min Scan# 437

Delta R.T. -0.00 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion: 43 Resp: 9651

Ion Ratio Lower Upper

43 100

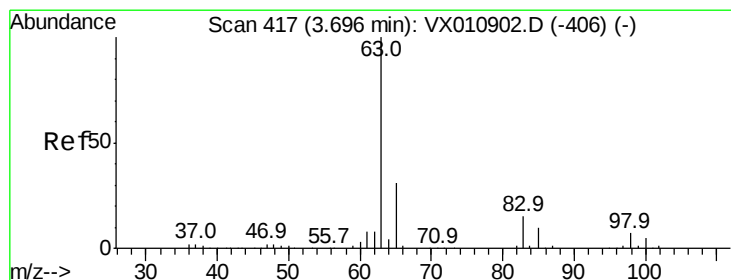
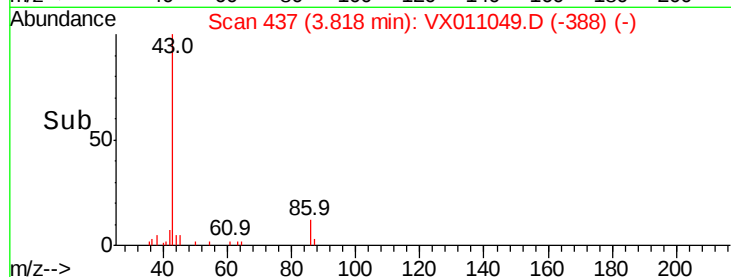
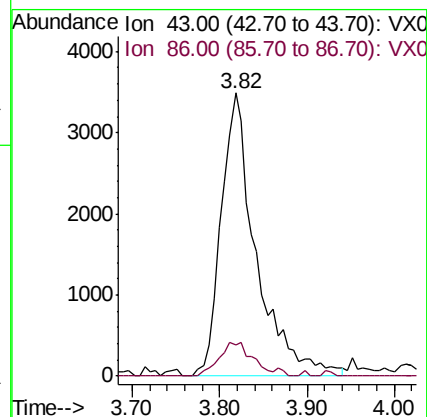
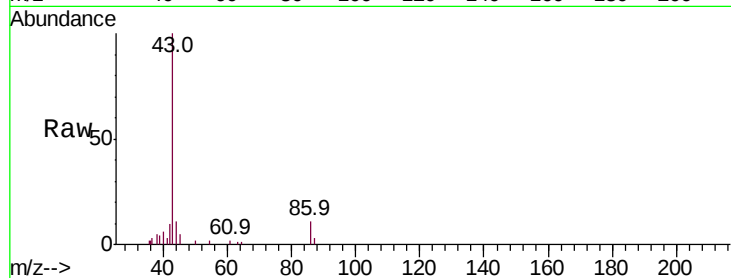
86 11.2 9.4 14.0

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#24

1,1-Dichloroethane

Concen: 0.524 ug/l

RT: 3.69 min Scan# 416

Delta R.T. -0.01 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

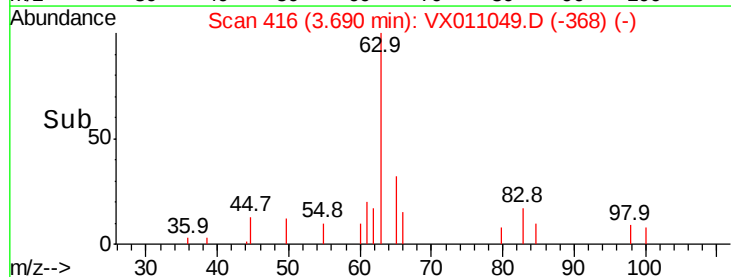
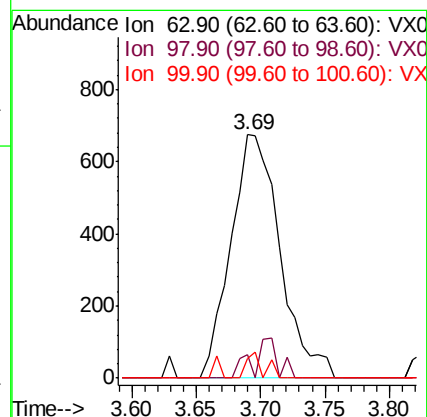
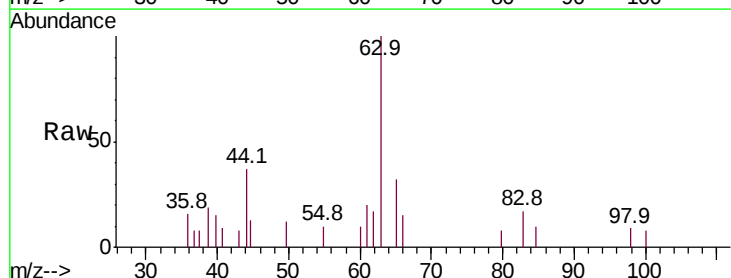
Tgt Ion: 63 Resp: 1797

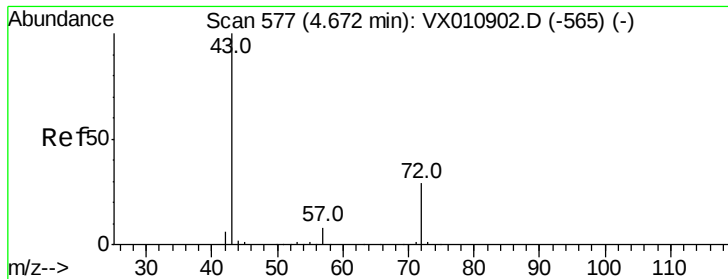
Ion Ratio Lower Upper

63 100

98 9.5 3.6 10.9

100 8.1 2.4 7.2#





#25

2-Butanone

Concen: 2.754 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.01 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion: 43 Resp: 4109

Ion Ratio Lower Upper

43 100

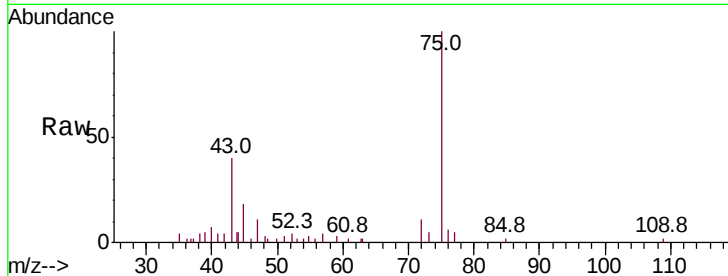
72 27.3 23.0 34.6

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Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.68

1000

500

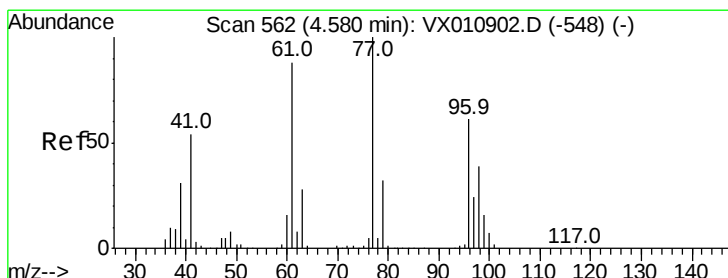
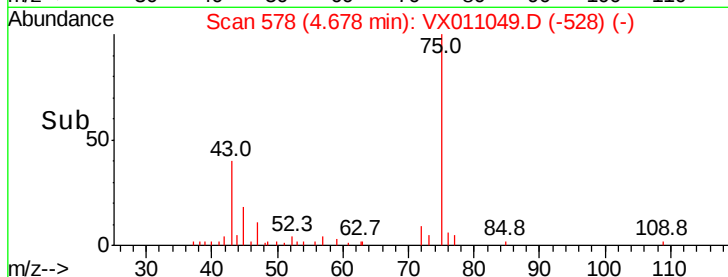
0

Time-->

4.60

4.70

4.80



#26

2,2-Dichloropropane

Concen: 0.461 ug/l

RT: 4.58 min Scan# 562

Delta R.T. -0.00 min

Lab File: VX011049.D

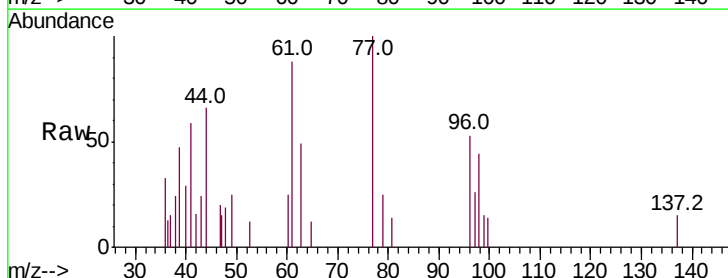
Acq: 23 Jul 2019 10:55

Tgt Ion: 77 Resp: 1299

Ion Ratio Lower Upper

77 100

97 31.0 12.6 37.6



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0

4.58

500

400

300

200

100

0

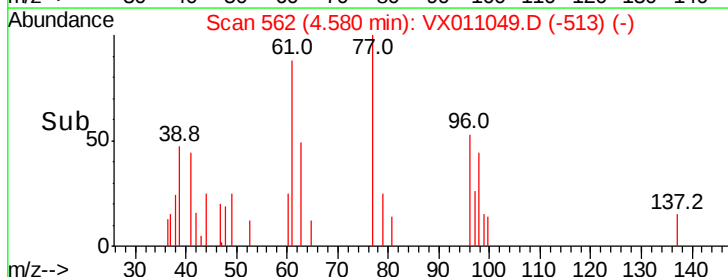
Time-->

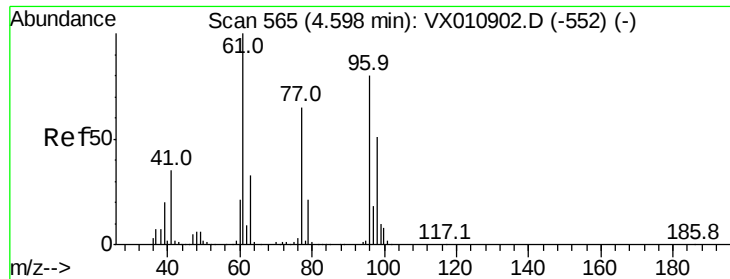
4.50

4.55

4.60

4.65





#27

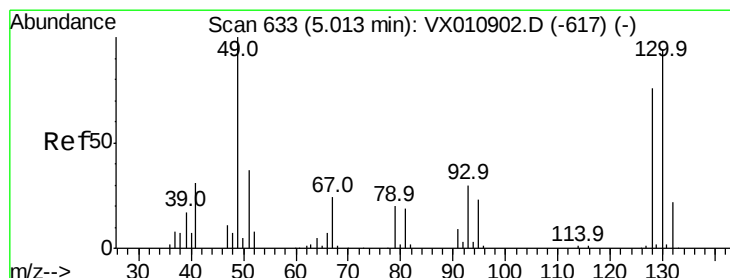
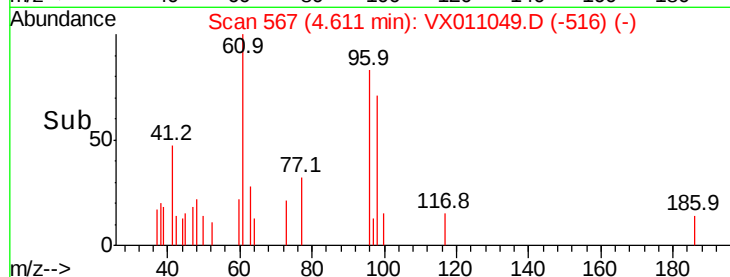
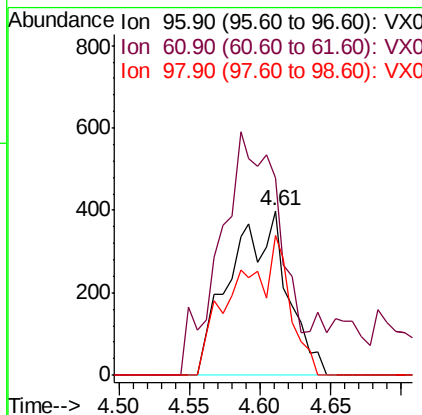
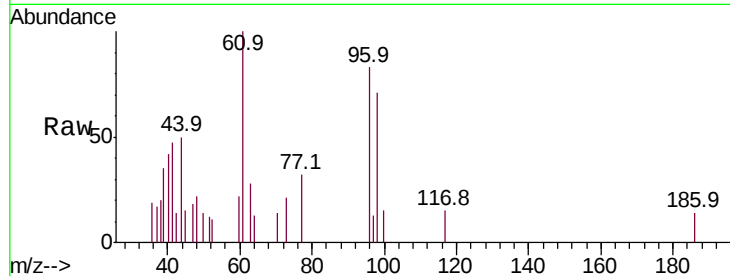
cis-1,2-Dichloroethene
 Concen: 0.469 ug/l m
 RT: 4.61 min Scan# 567
 Delta R.T. 0.01 min
 Lab File: VX011049.D
 Acq: 23 Jul 2019 10:55

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

Tot Ion	Ratio	Resp	Lower	Upper
96	100	1110		
61	158.3	0.0	269.0	
98	0.0	0.0	131.4	

Manual Integrations
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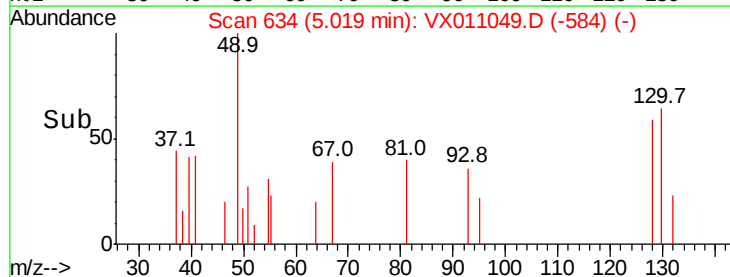
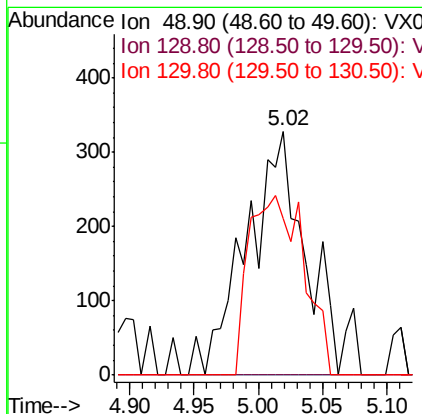
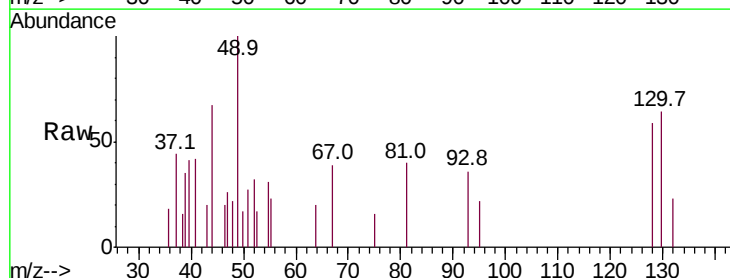
MMDadoda
 7/25/2019 3:06:46 PM

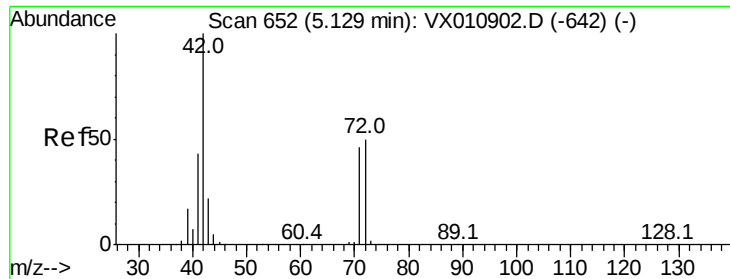


#28

Bromochloromethane
 Concen: 0.635 ug/l
 RT: 5.02 min Scan# 634
 Delta R.T. 0.01 min
 Lab File: VX011049.D
 Acq: 23 Jul 2019 10:55

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	1026		
129	0.0	0.0	5.2	
130	69.5	76.9	115.3#	





#29

Tetrahydrofuran

Concen: 2.519 ug/l

RT: 5.15 min Scan# 655

Delta R.T. 0.02 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Instrument :

MSVOA_X

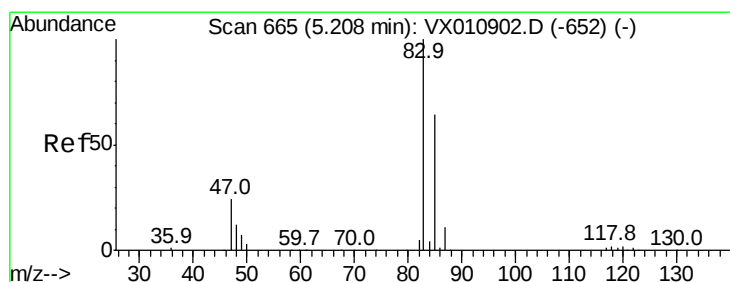
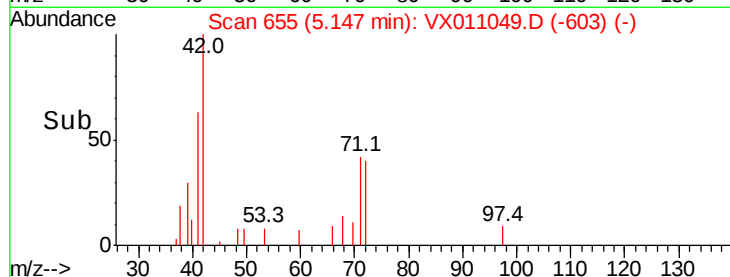
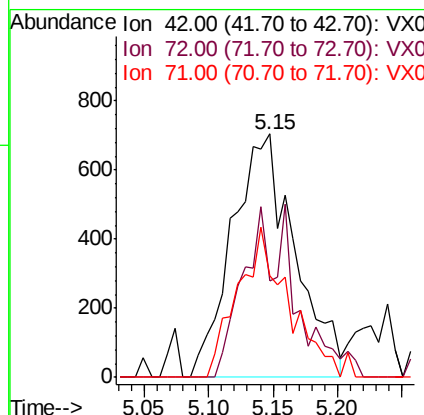
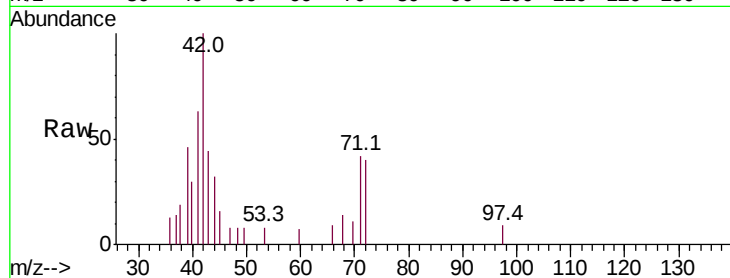
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion:	42	Resp:	2381
Ion Ratio	Lower	Upper	
42	100		
72	34.0	39.8	59.8#
71	49.5	37.0	55.4

Manual Integrations
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#30

Chloroform

Concen: 0.693 ug/l

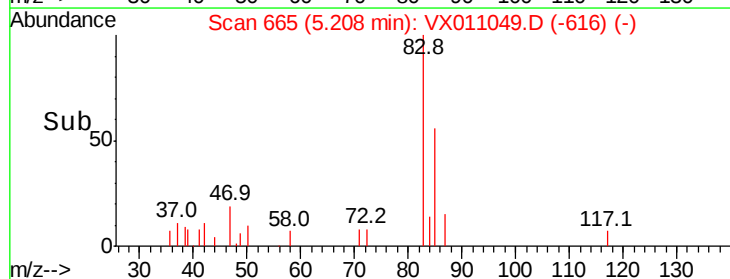
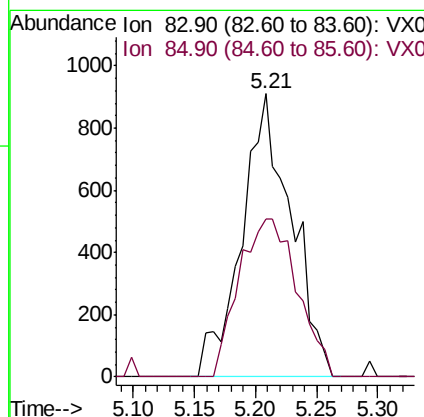
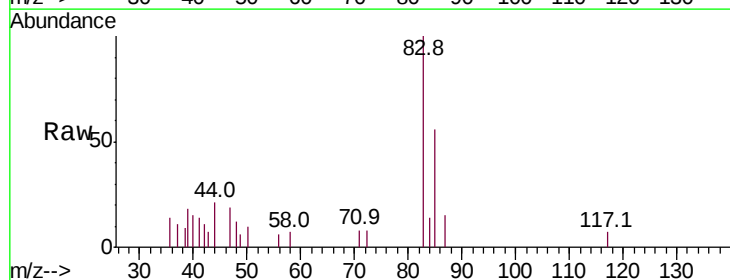
RT: 5.21 min Scan# 665

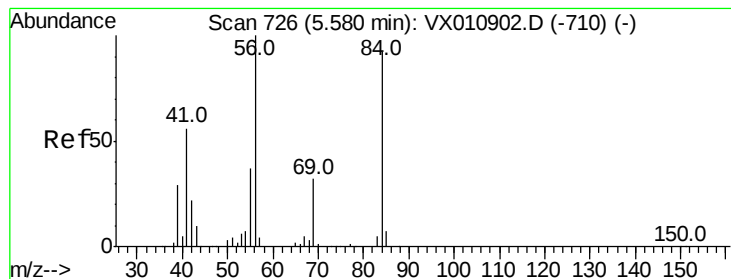
Delta R.T. -0.00 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Tgt Ion:	83	Resp:	2567
Ion Ratio	Lower	Upper	
83	100		
85	55.9	51.4	77.0





#31

Cyclohexane

Concen: 0.483 ug/l

RT: 5.58 min Scan# 726

Delta R.T. -0.00 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Instrument :

MSVOA_X

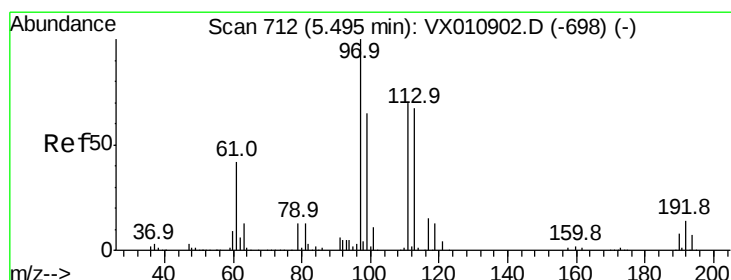
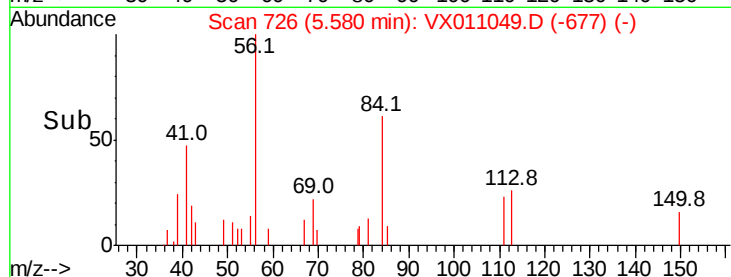
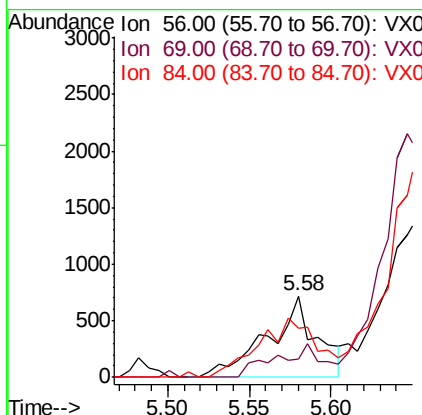
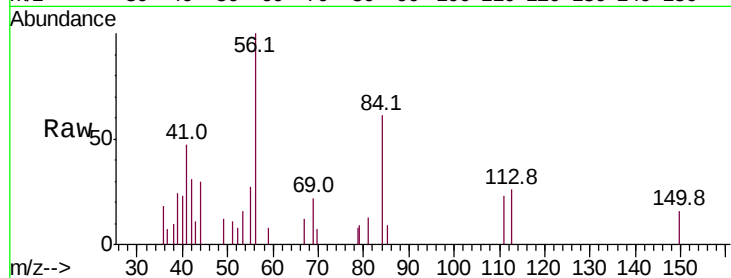
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion:	56	Resp:	1509
Ion	Ratio	Lower	Upper
56	100		
69	22.1	25.8	38.8#
84	53.7	73.8	110.6#

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 0.510 ug/l

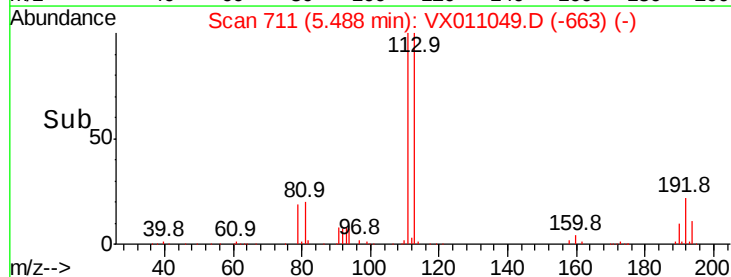
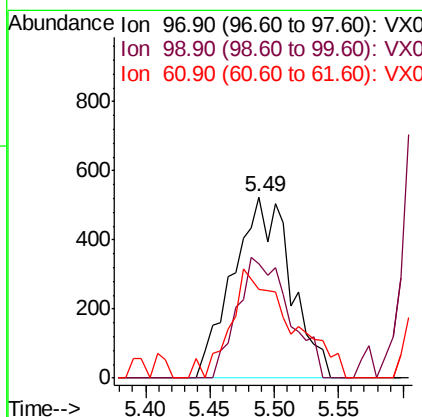
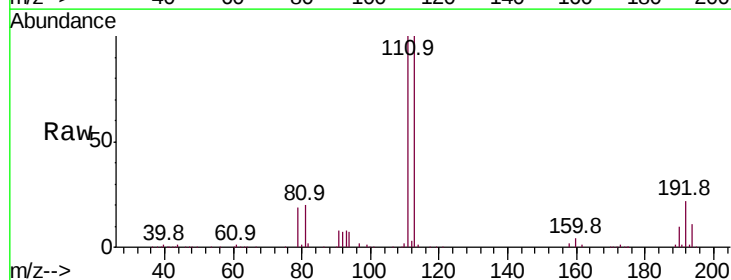
RT: 5.49 min Scan# 711

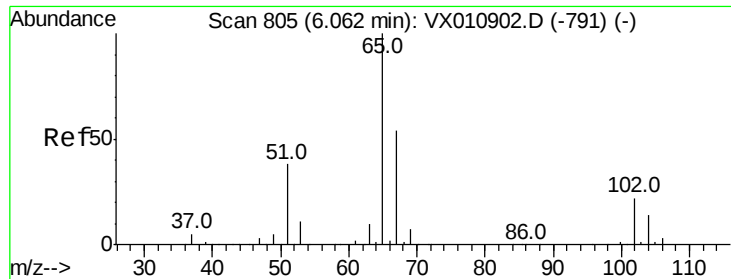
Delta R.T. -0.01 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Tgt Ion:	97	Resp:	1635
Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.4	77.0#
61	63.2	33.0	49.6#





#33

1,2-Dichloroethane-d4

Concen: 48.192 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.01 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Tot Ion: 65 Resp: 110907

Ion Ratio Lower Upper

65 100

67 53.3 0.0 107.8

Instrument :

MSVOA_X

ClientSampleId :

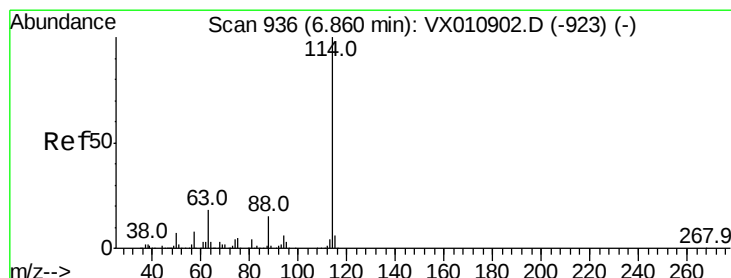
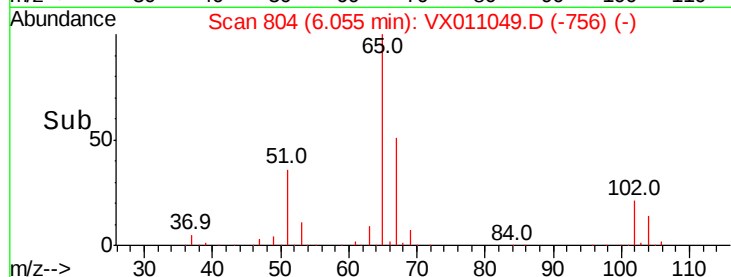
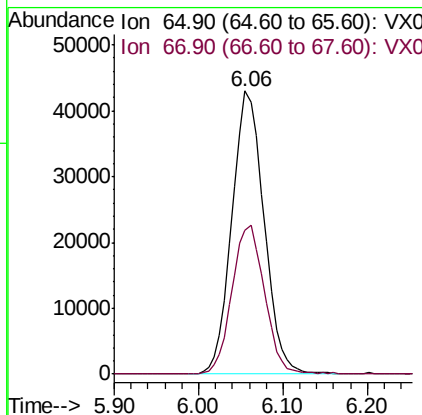
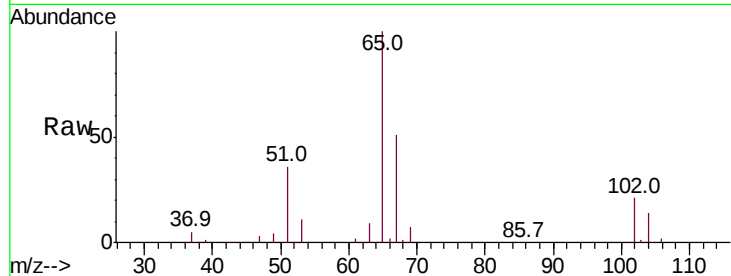
MDL-MDL-WATER-03-QT3-2019 DL

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. -0.01 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

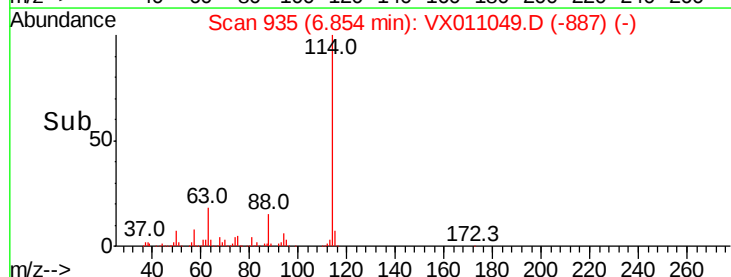
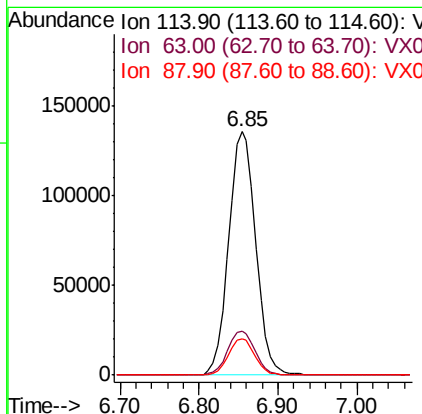
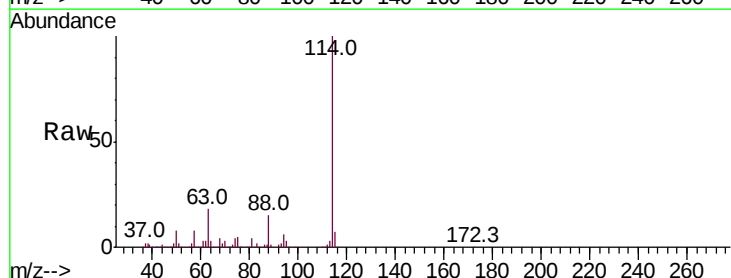
Tgt Ion:114 Resp: 322598

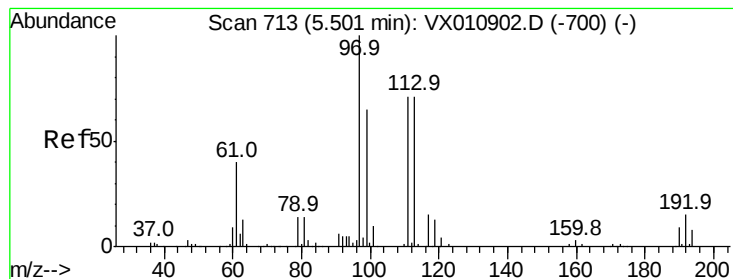
Ion Ratio Lower Upper

114 100

63 18.0 0.0 35.6

88 14.8 0.0 29.8





#35

Dibromofluoromethane

Concen: 47.569 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.01 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Instrument :

MSVOA_X

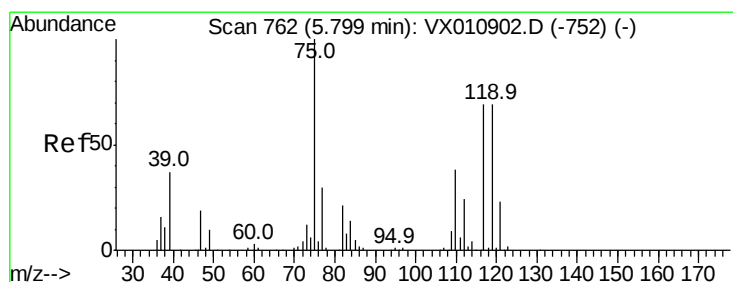
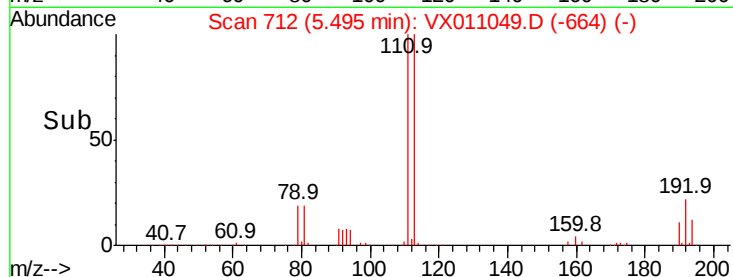
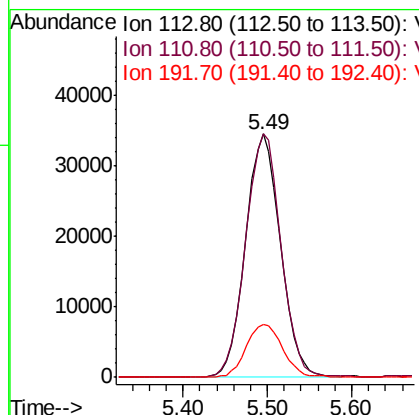
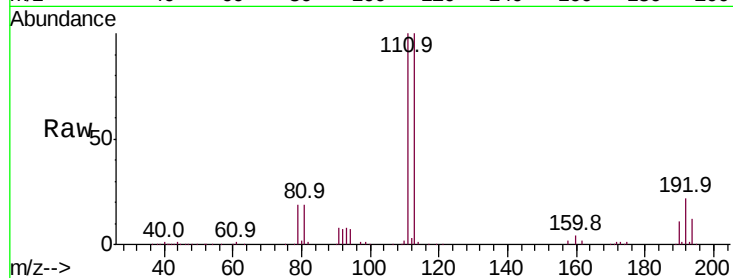
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion:	113	Resp:	97402
Ion Ratio	Lower	Upper	
113	100		
111	100.6	82.3	123.5
192	22.6	17.4	26.2

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 0.577 ug/l

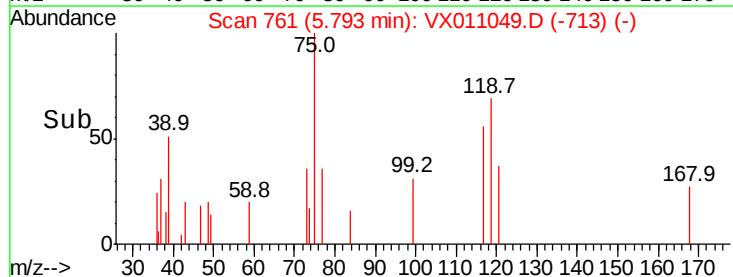
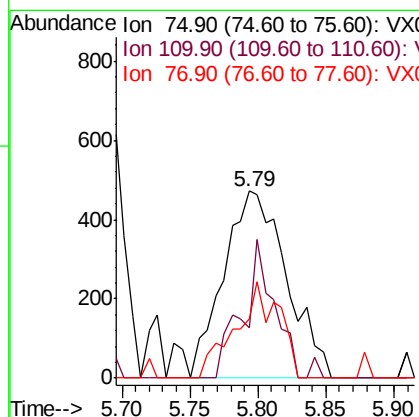
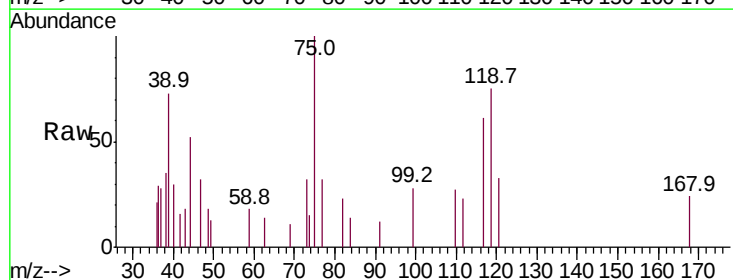
RT: 5.79 min Scan# 761

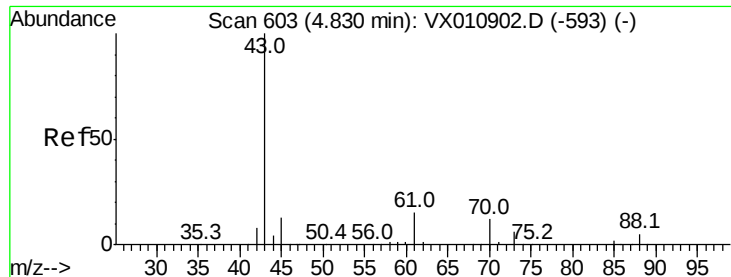
Delta R.T. -0.01 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Tgt Ion:	75	Resp:	1528
Ion Ratio	Lower	Upper	
75	100		
110	37.0	19.9	59.7
77	35.4	25.0	37.4





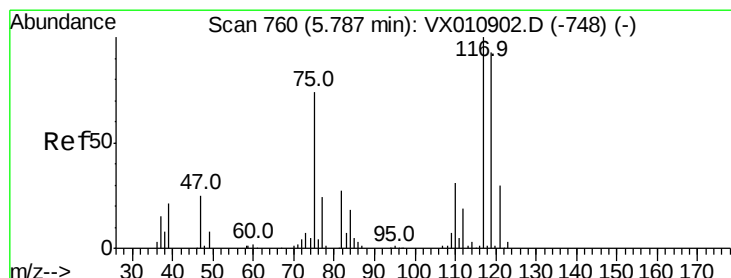
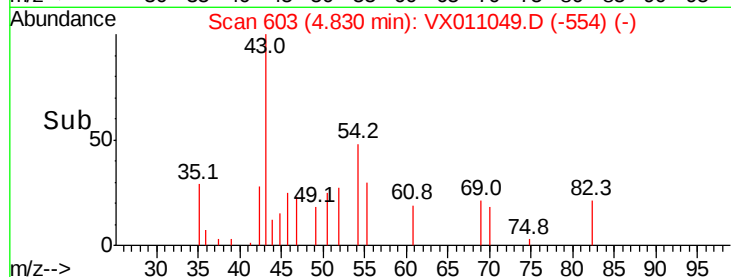
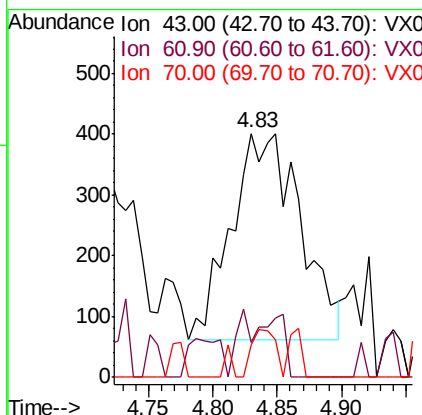
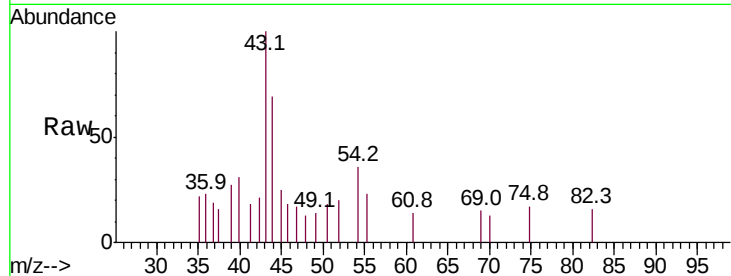
#37
Ethyl Acetate
Concen: 0.467 ug/l
RT: 4.83 min Scan# 603
Delta R.T. -0.00 min
Lab File: VX011049.D
Acq: 23 Jul 2019 10:55

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

Tot Ion	Ratio	Lower	Upper
43	100		
61	7.0	11.6	17.4#
70	7.7	9.1	13.7#

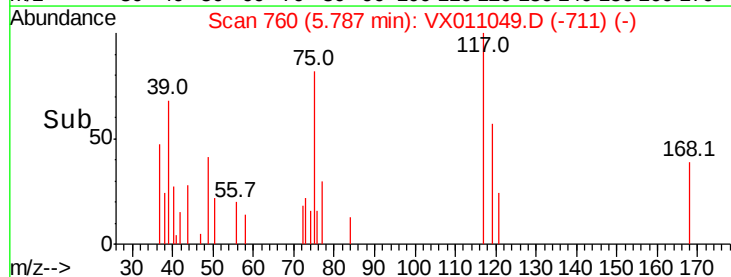
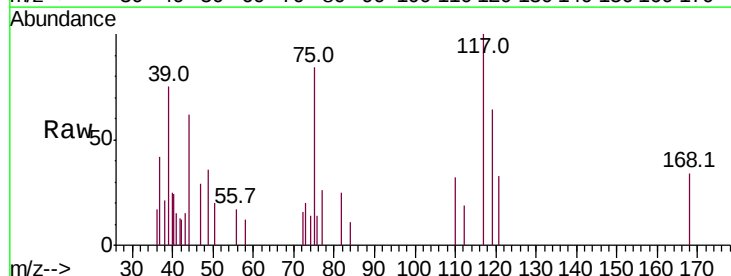
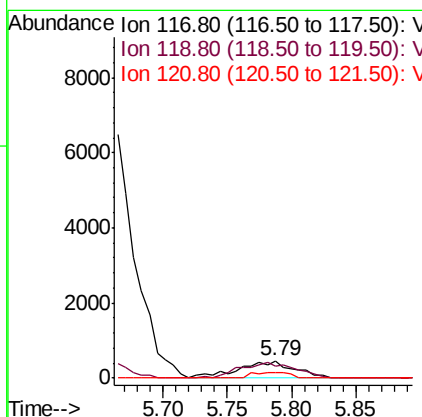
Manual Integrations
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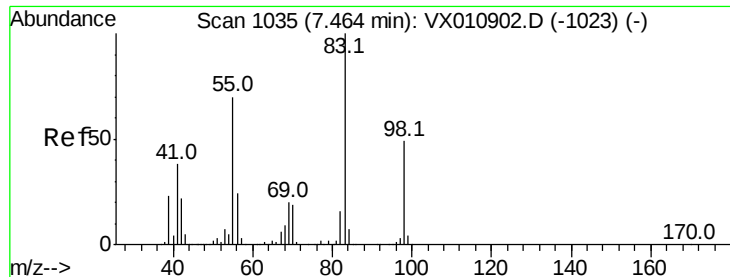
MMDadoda
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#38
Carbon Tetrachloride
Concen: 0.498 ug/l
RT: 5.79 min Scan# 760
Delta R.T. -0.00 min
Lab File: VX011049.D
Acq: 23 Jul 2019 10:55

Tgt Ion	Ratio	Lower	Upper
117	100		
119	64.4	74.2	111.2#
121	32.6	24.2	36.2





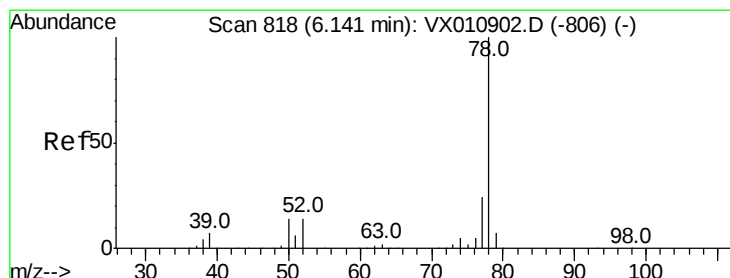
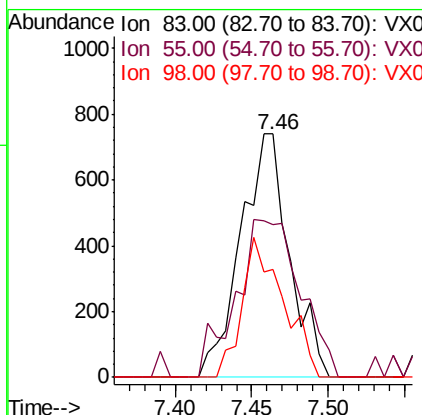
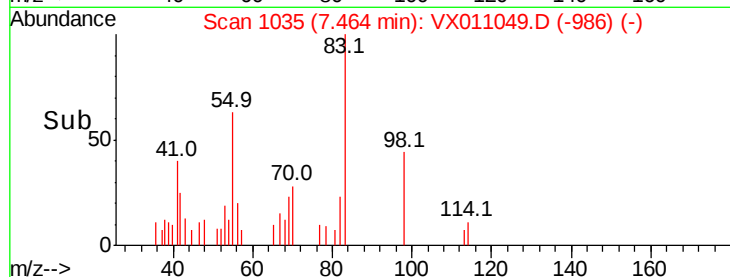
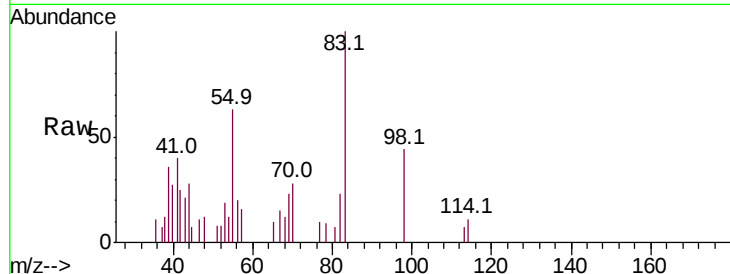
#39
Methvlcvclohexane
Concen: 0.478 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. -0.00 min
Lab File: VX011049.D
Acq: 23 Jul 2019 10:55

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

Tot Ion	Ratio	Lower	Upper
83	100		
55	62.6	56.2	84.4
98	44.3	39.0	58.4

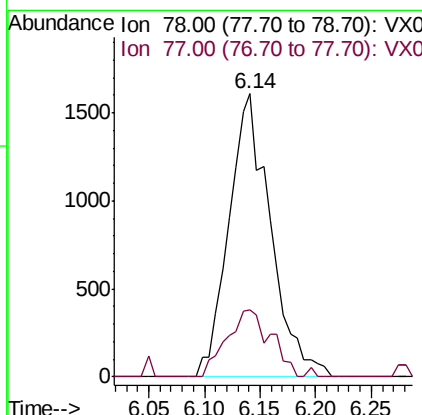
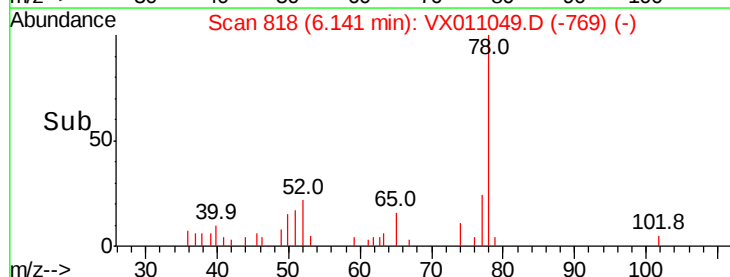
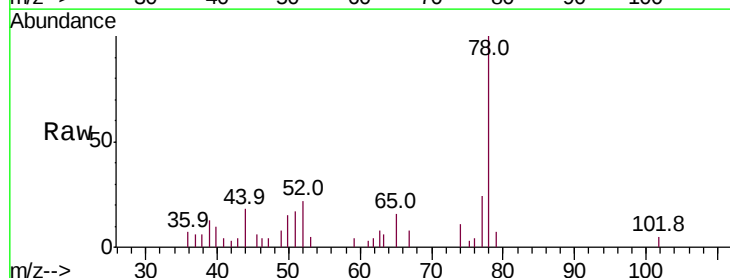
Manual Integrations
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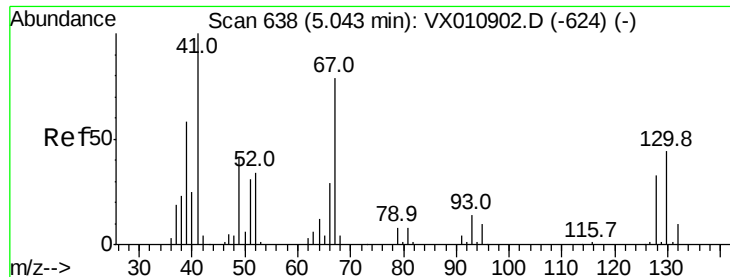
MMDadoda
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#40
Benzene
Concen: 0.515 ug/l
RT: 6.14 min Scan# 818
Delta R.T. -0.00 min
Lab File: VX011049.D
Acq: 23 Jul 2019 10:55

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.6





#41

Methacrylonitrile

Concen: 0.682 ug/l

RT: 5.05 min Scan# 639

Delta R.T. 0.01 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Instrument :

MSVOA_X

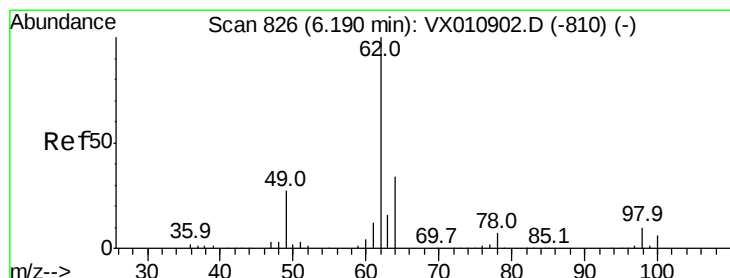
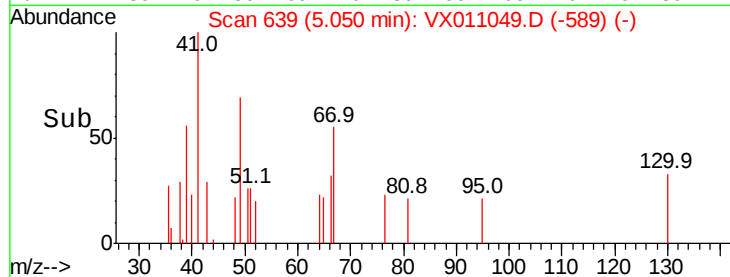
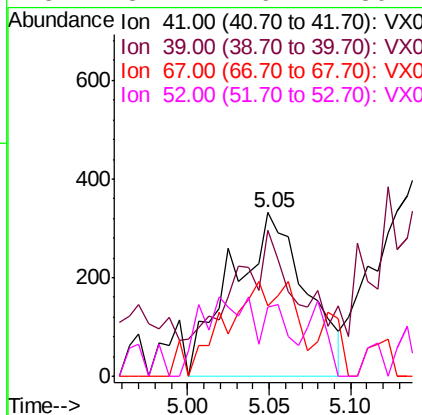
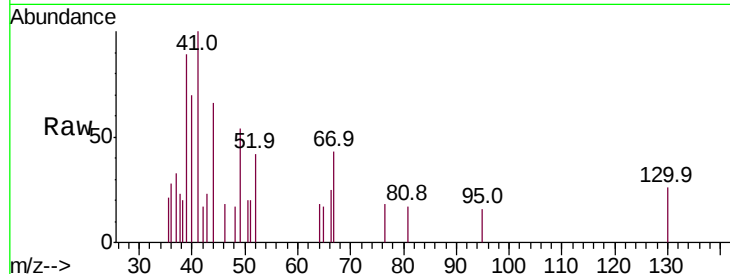
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion	41	Resp:	1050
Ion	Ratio	Lower	Upper
41	100		
39	64.6	45.4	68.2
67	51.8	65.9	98.9#
52	32.7	26.2	39.2

Manual Integrations
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#42

1,2-Dichloroethane

Concen: 0.578 ug/l

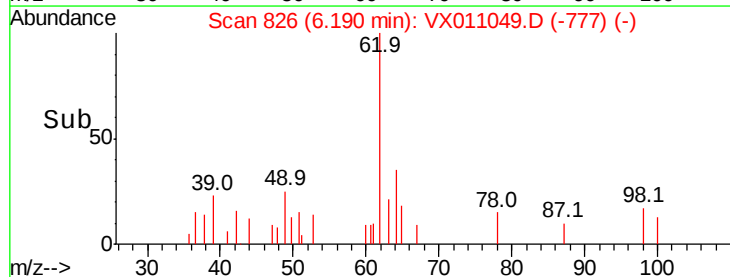
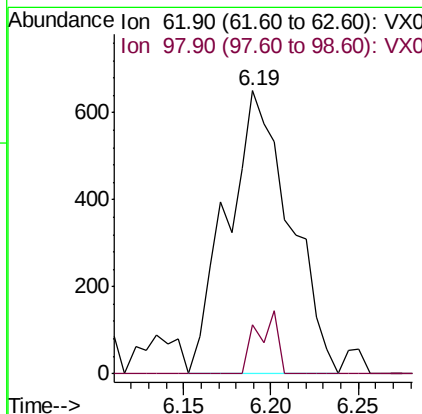
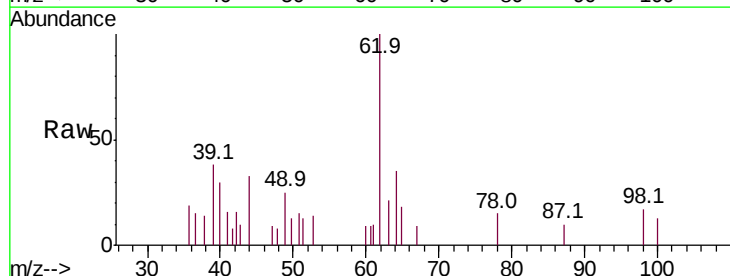
RT: 6.19 min Scan# 826

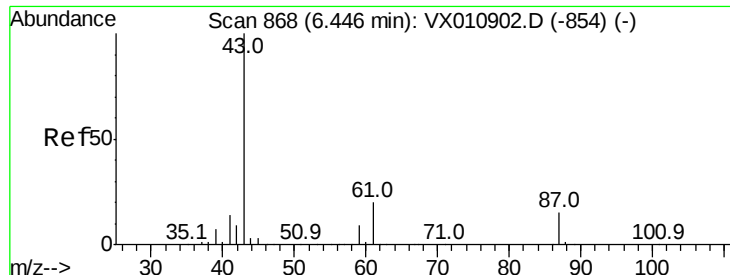
Delta R.T. -0.00 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Tgt Ion	62	Resp:	1630
Ion	Ratio	Lower	Upper
62	100		
98	7.3	0.0	20.0





#43

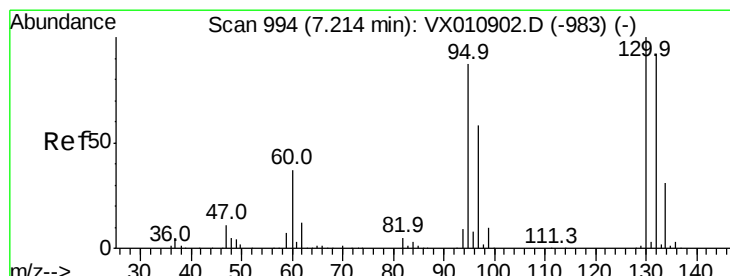
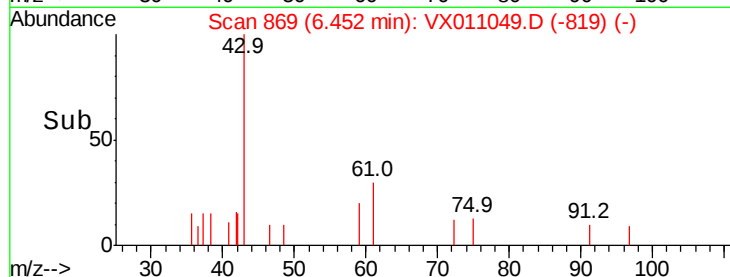
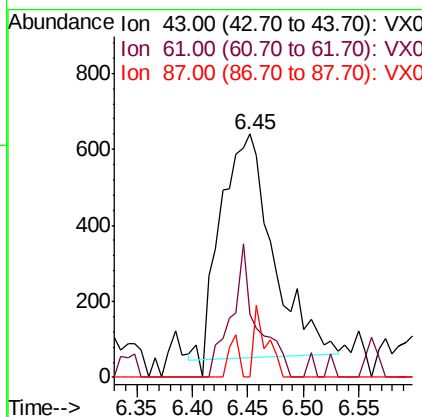
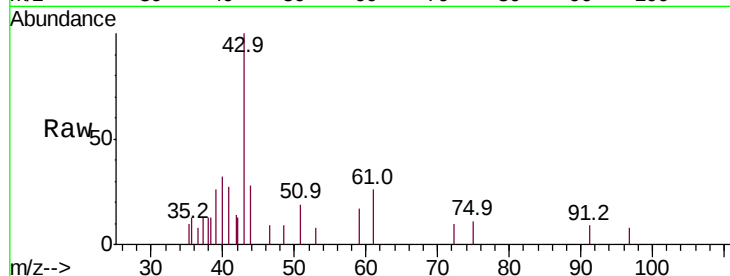
Isopropyl Acetate
 Concen: 0.426 ug/l
 RT: 6.45 min Scan# 869
 Delta R.T. 0.01 min
 Lab File: VX011049.D
 Acq: 23 Jul 2019 10:55

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

Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	17.1	25.7#
87	8.2	12.0	18.0#

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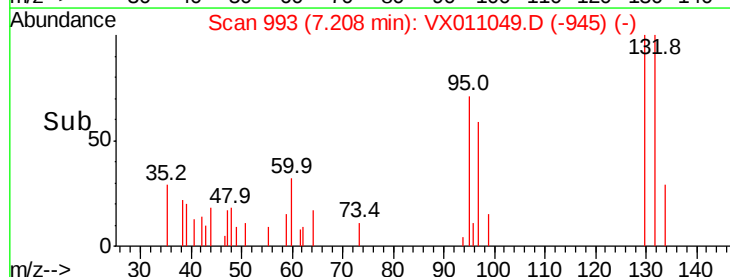
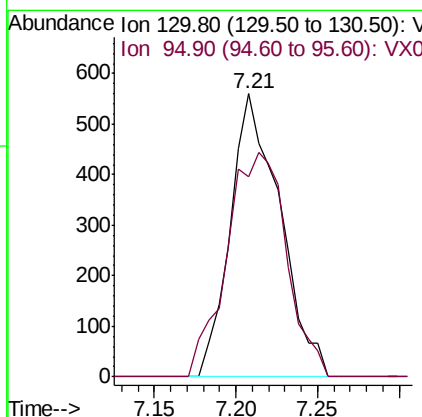
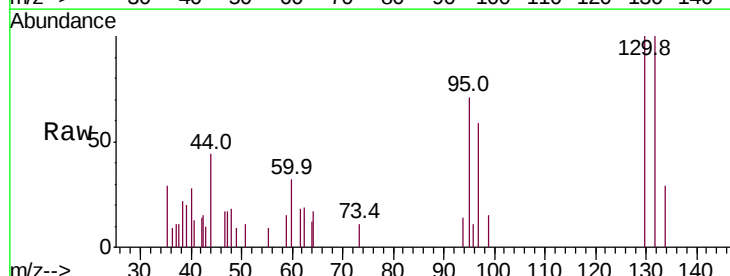
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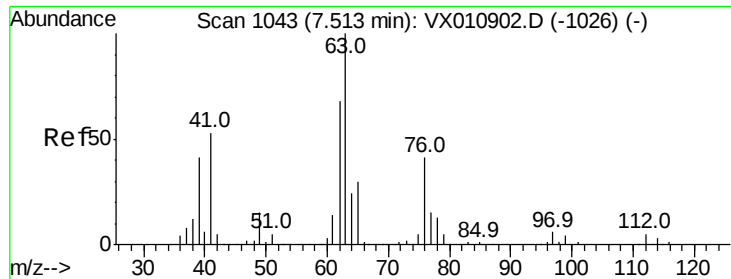


#44

Trichloroethene
 Concen: 0.491 ug/l
 RT: 7.21 min Scan# 993
 Delta R.T. -0.01 min
 Lab File: VX011049.D
 Acq: 23 Jul 2019 10:55

Tgt Ion	Ratio	Lower	Upper
130	100		
95	70.7	0.0	174.8





#45

1,2-Dichloropropane

Concen: 0.586 ug/l

RT: 7.51 min Scan# 1043

Delta R.T. -0.00 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion: 63 Resp: 1211

Ion Ratio Lower Upper

63 100

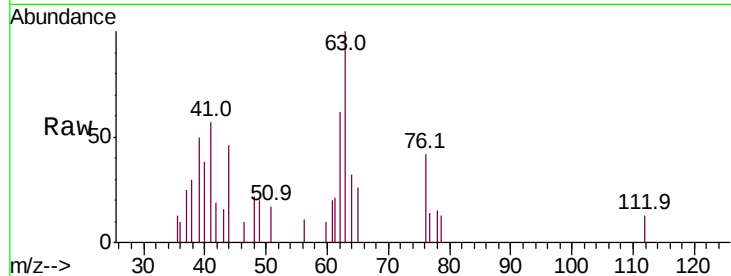
65 25.7 24.4 36.6

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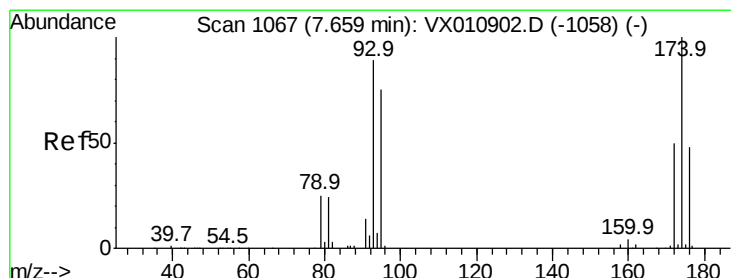
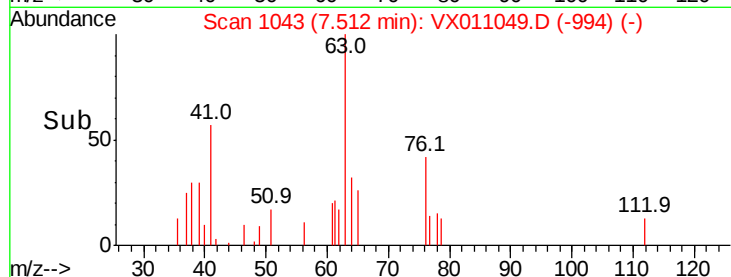
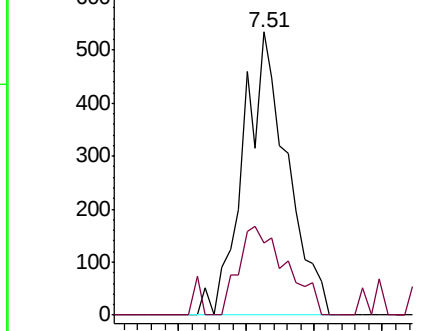
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Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 64.90 (64.60 to 65.60): VX0



#46

Dibromomethane

Concen: 0.531 ug/l

RT: 7.66 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

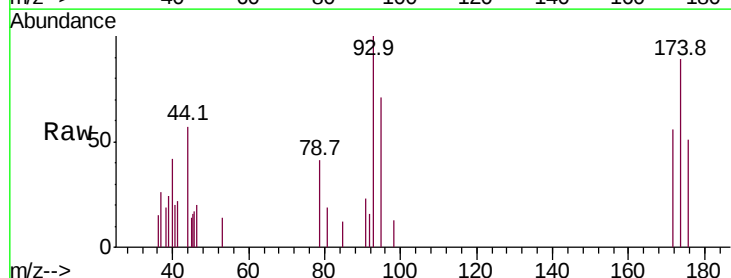
Tgt Ion: 93 Resp: 784

Ion Ratio Lower Upper

93 100

95 82.9 67.2 100.8

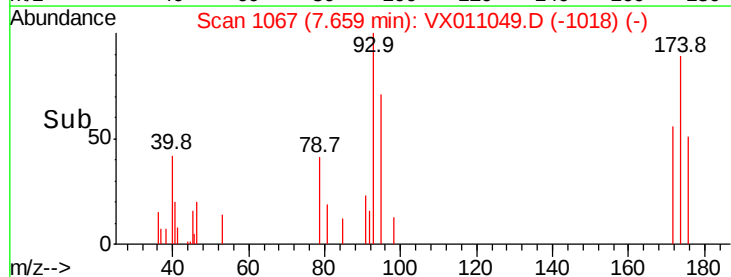
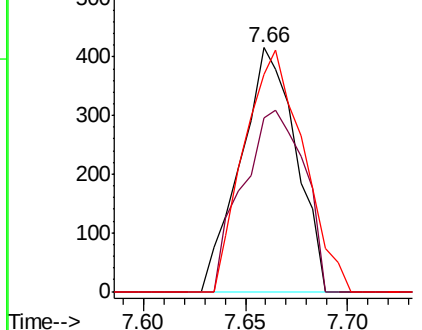
174 105.9 90.6 135.8

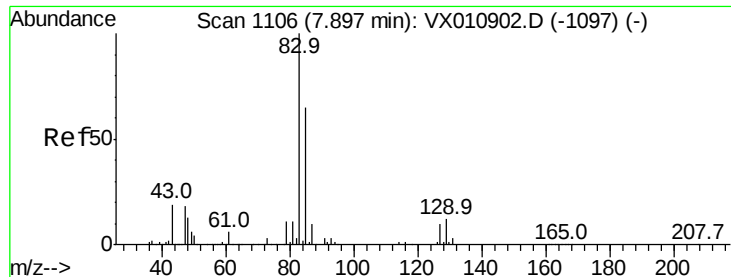


Abundance Ion 92.80 (92.50 to 93.50): VX0

Ion 94.80 (94.50 to 95.50): VX0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 0.475 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Instrument :

MSVOA_X

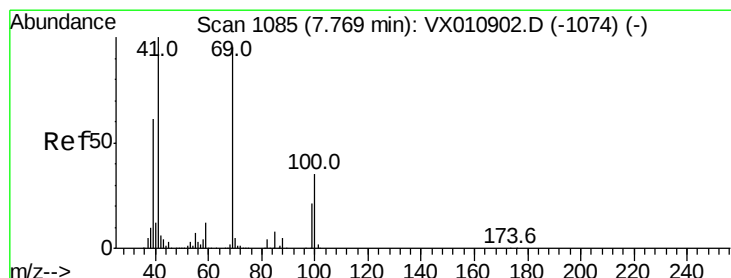
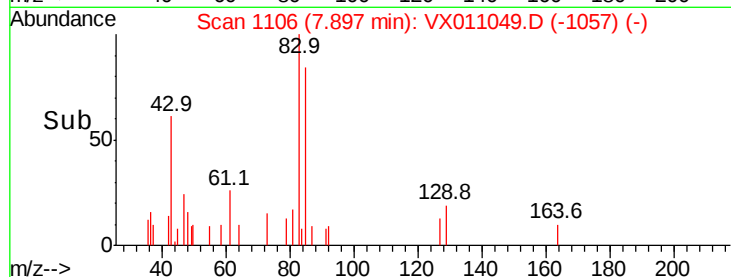
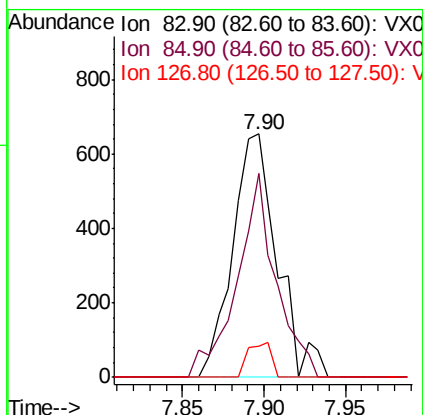
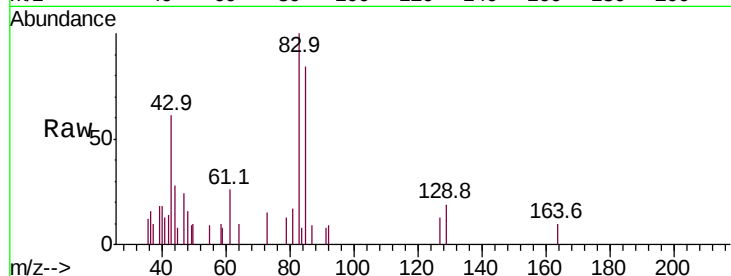
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion:	83	Resp:	1248
Ion	Ratio	Lower	Upper
83	100		
85	83.8	52.5	78.7#
127	12.8	7.8	11.8#

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#48

Methyl methacrylate

Concen: 0.540 ug/l

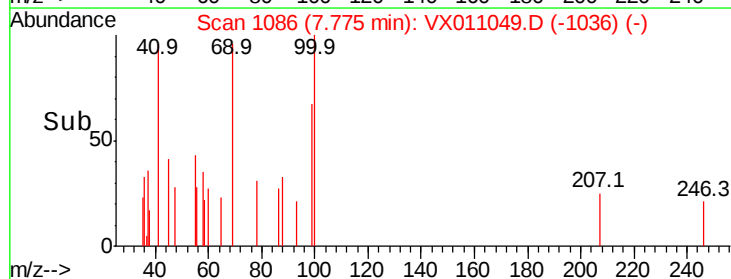
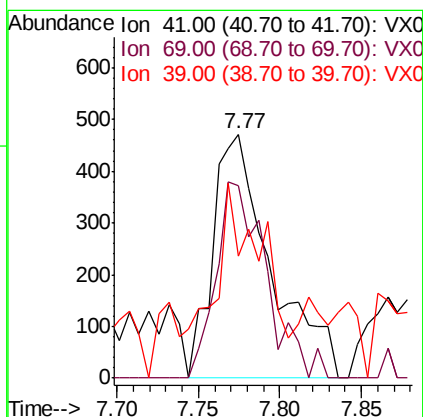
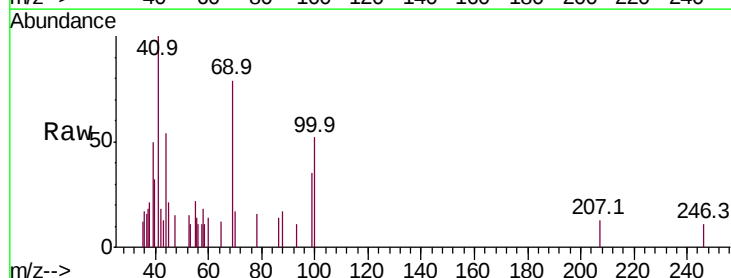
RT: 7.77 min Scan# 1086

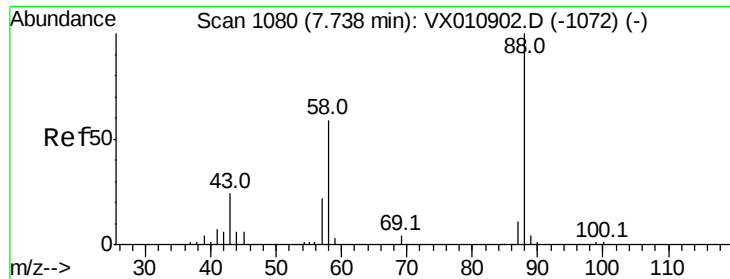
Delta R.T. 0.01 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Tgt Ion:	41	Resp:	1173
Ion	Ratio	Lower	Upper
41	100		
69	69.7	74.4	111.6#
39	40.1	48.9	73.3#





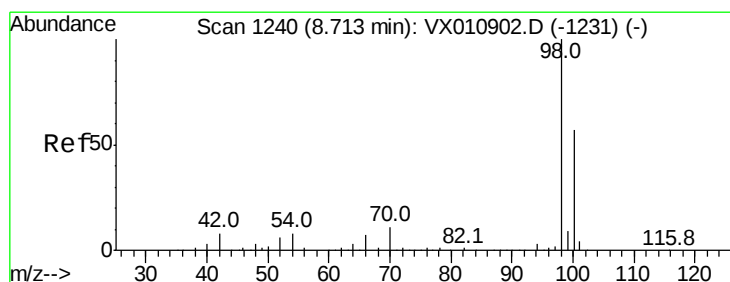
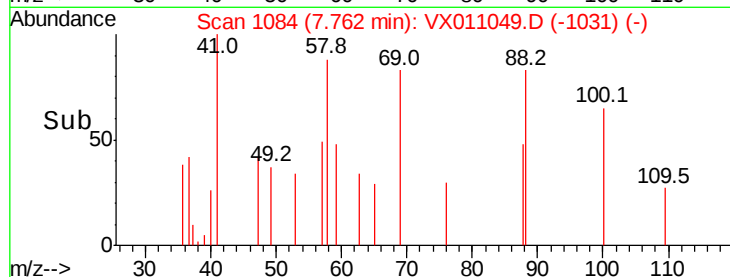
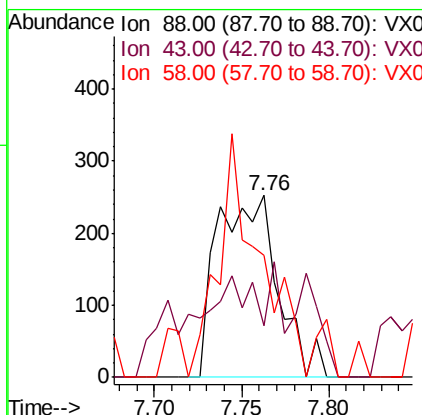
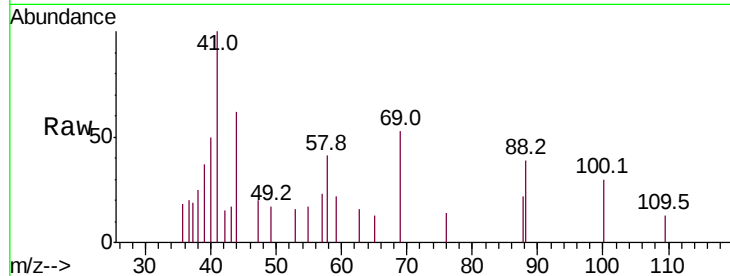
#49
1,4-Dioxane
Concen: 10.000 ug/l
RT: 7.76 min Scan# 1084
Delta R.T. 0.02 min
Lab File: VX011049.D
Acq: 23 Jul 2019 10:55

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

Tot Ion: 88 Resp: 608
Ion Ratio Lower Upper
88 100
43 0.0 22.9 34.3#
58 91.3 49.8 74.8#

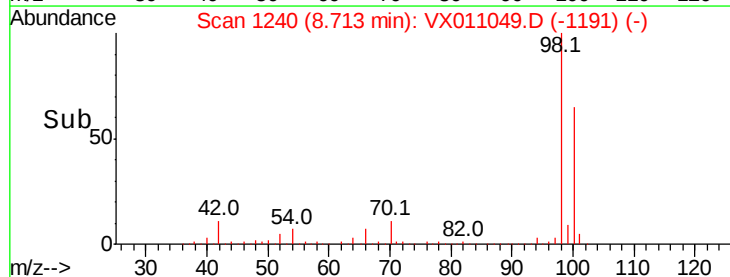
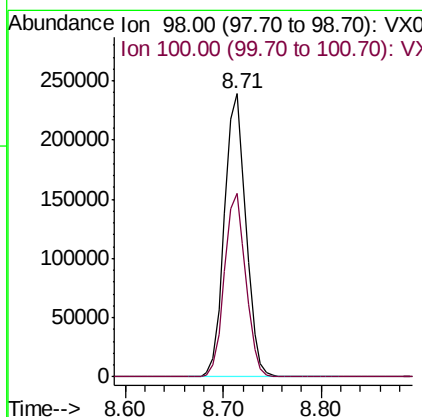
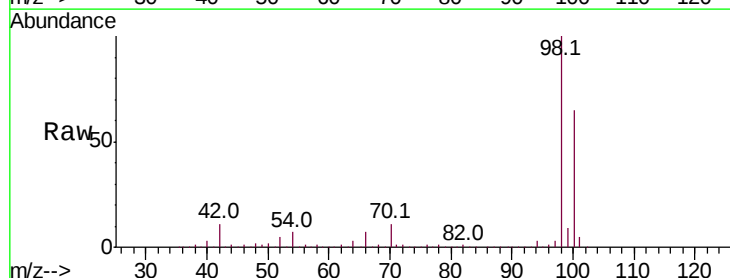
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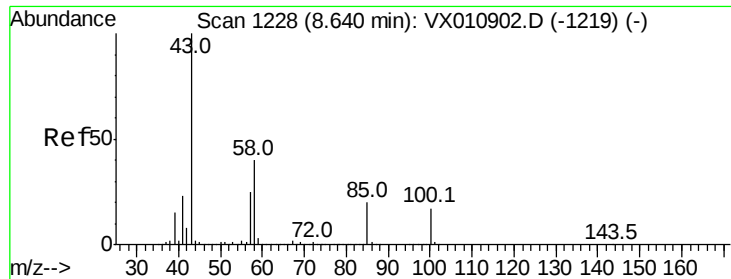
MMDadoda
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#50
Toluene-d8
Concen: 47.596 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX011049.D
Acq: 23 Jul 2019 10:55

Tgt Ion: 98 Resp: 365527
Ion Ratio Lower Upper
98 100
100 64.4 50.6 75.8





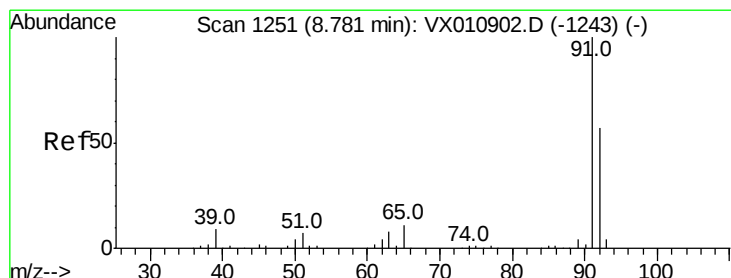
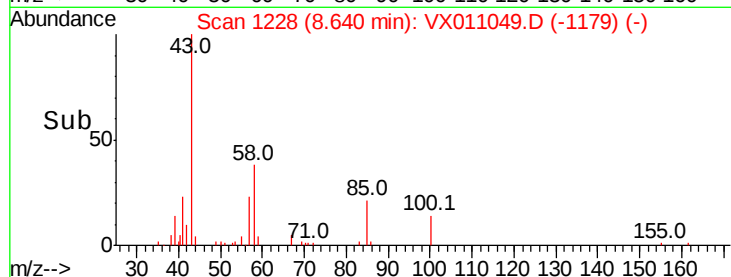
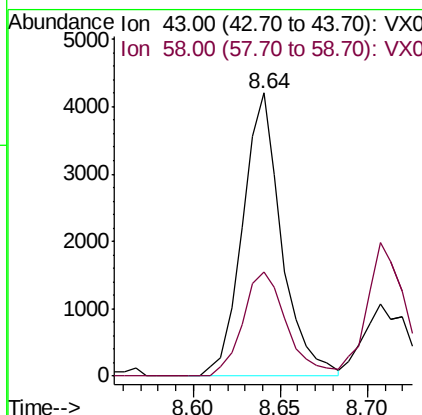
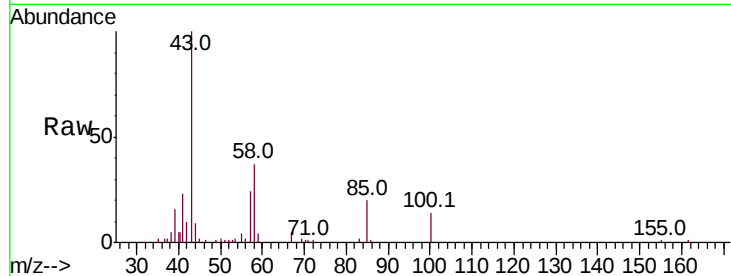
#51
4-Methyl-2-Pentanone
Concen: 2.248 ug/l
RT: 8.64 min Scan# 1228
Delta R.T. -0.00 min
Lab File: VX011049.D
Acq: 23 Jul 2019 10:55

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

Tot Ion: 43 Resp: 6503
Ion Ratio Lower Upper
43 100
58 41.7 32.2 48.4

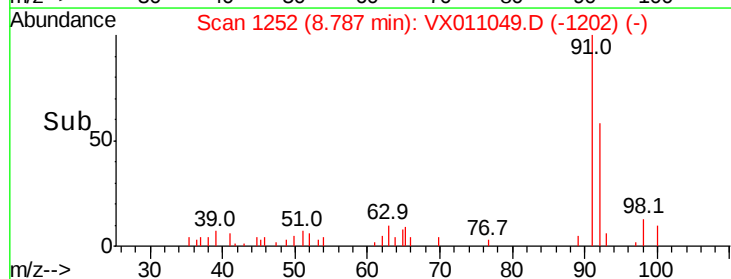
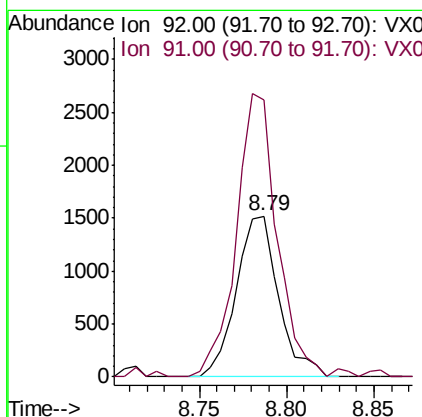
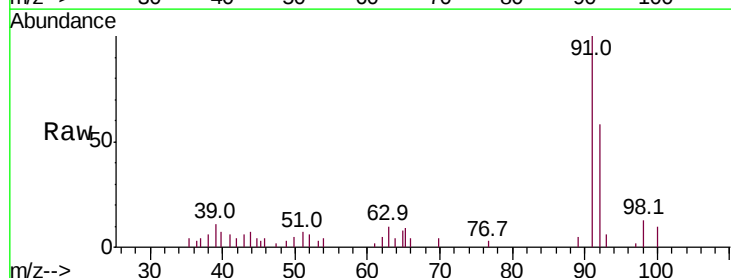
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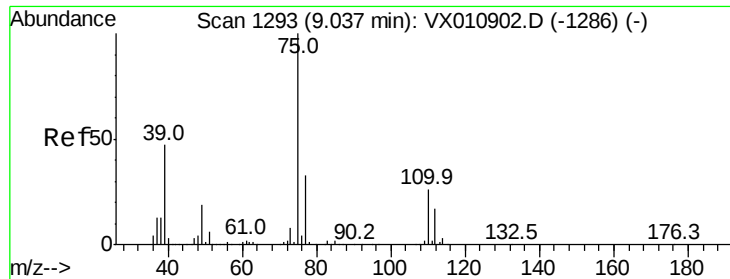
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#52
Toluene
Concen: 0.480 ug/l
RT: 8.79 min Scan# 1252
Delta R.T. 0.01 min
Lab File: VX011049.D
Acq: 23 Jul 2019 10:55

Tgt Ion: 92 Resp: 2558
Ion Ratio Lower Upper
92 100
91 172.2 139.4 209.0





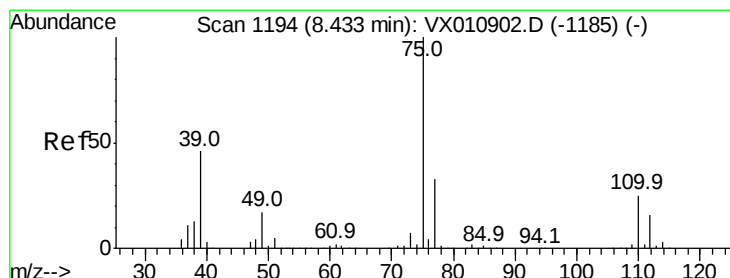
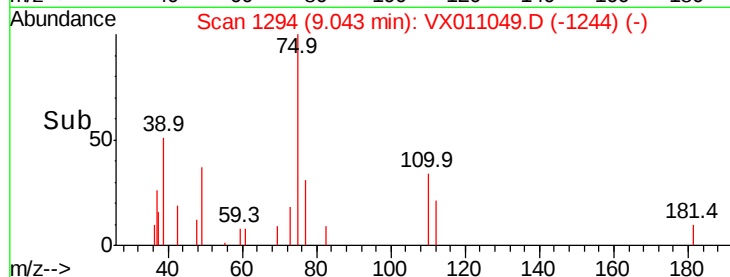
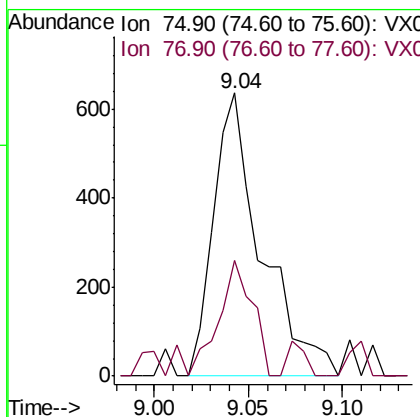
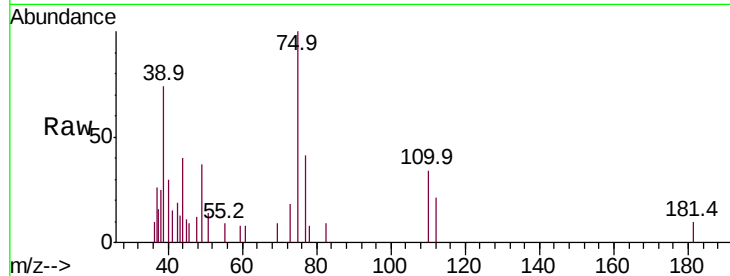
#53
t-1,3-Dichloropropene
Concen: 0.398 ug/l
RT: 9.04 min Scan# 1294
Delta R.T. 0.01 min
Lab File: VX011049.D
Acq: 23 Jul 2019 10:55

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

Tot Ion: 75 Resp: 1124
Ion Ratio Lower Upper
75 100
77 41.0 26.2 39.2#

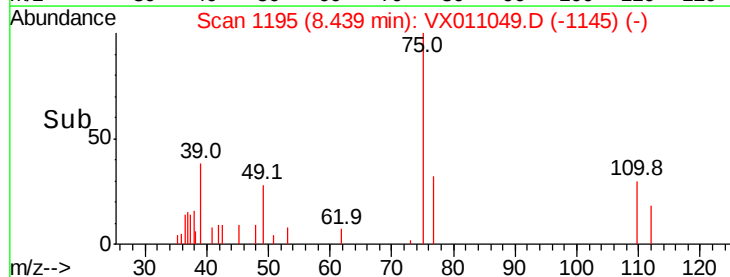
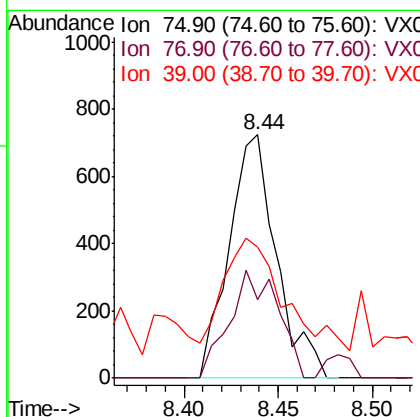
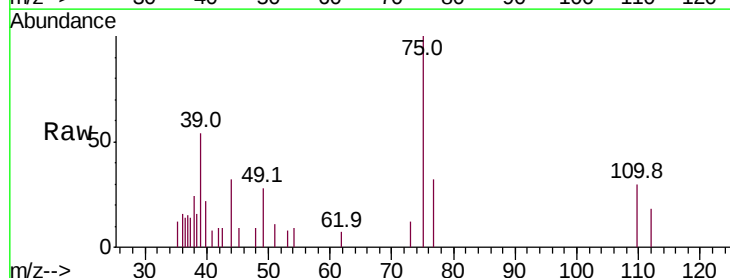
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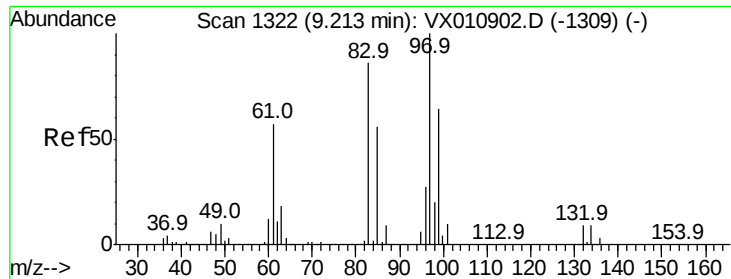
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#54
cis-1,3-Dichloropropene
Concen: 0.401 ug/l
RT: 8.44 min Scan# 1195
Delta R.T. 0.01 min
Lab File: VX011049.D
Acq: 23 Jul 2019 10:55

Tgt Ion: 75 Resp: 1260
Ion Ratio Lower Upper
75 100
77 32.0 26.1 39.1
39 37.6 36.6 54.8





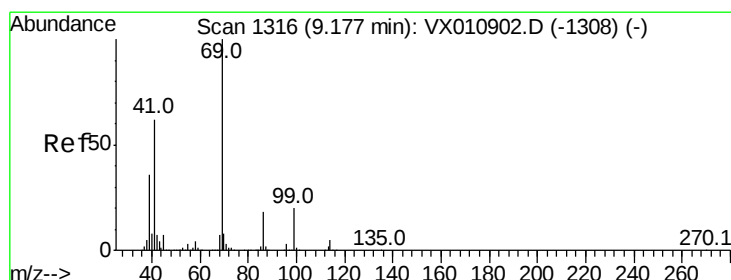
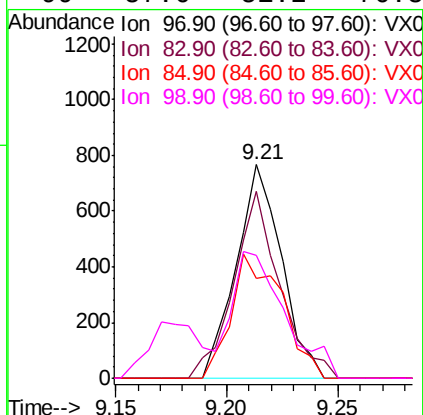
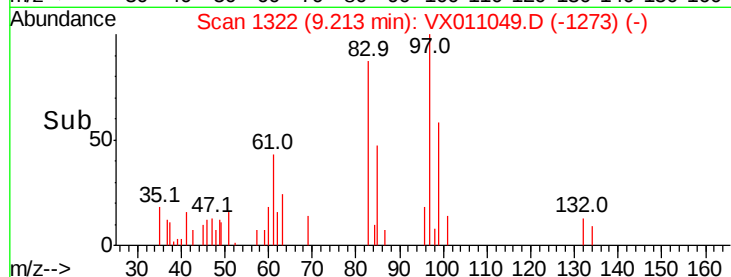
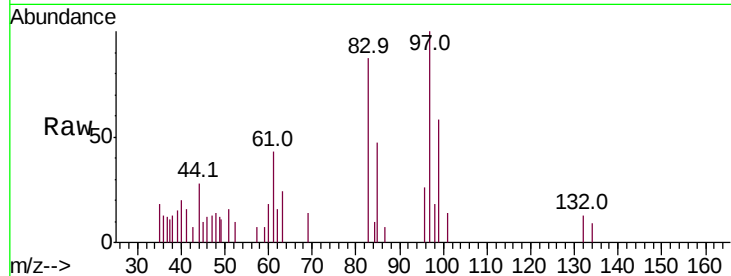
#55
1,1,2-Trichloroethane
Concen: 0.494 ug/l
RT: 9.21 min Scan# 1322
Delta R.T. -0.00 min
Lab File: VX011049.D
Acq: 23 Jul 2019 10:55

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

Tot Ion	Ratio	Lower	Upper
97	100		
83	87.4	69.2	103.8
85	46.8	44.6	66.8
99	57.6	51.2	76.8

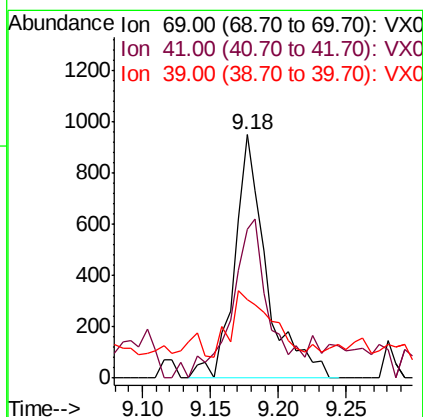
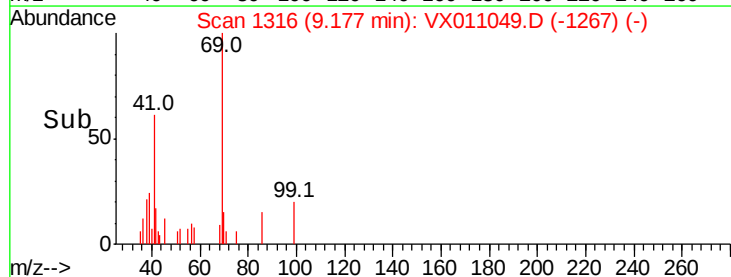
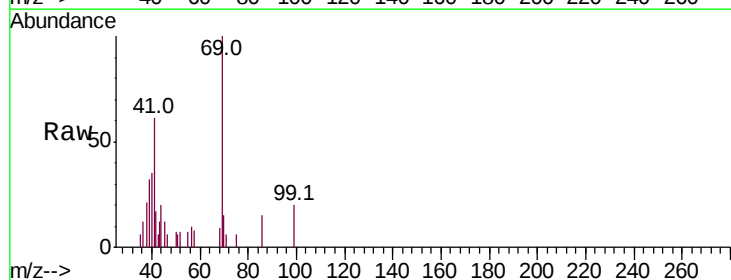
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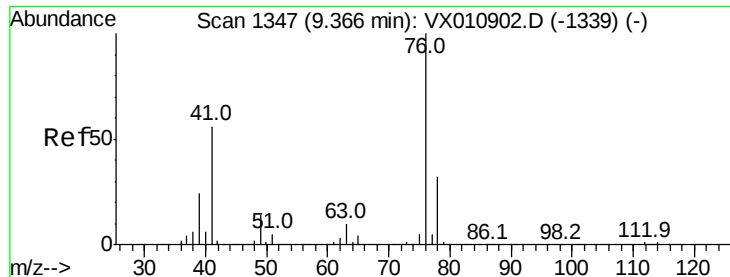
MMDadoda
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#56
Ethyl methacrylate
Concen: 0.483 ug/l
RT: 9.18 min Scan# 1316
Delta R.T. -0.00 min
Lab File: VX011049.D
Acq: 23 Jul 2019 10:55

Tgt Ion	Ratio	Lower	Upper
69	100		
41	77.4	49.7	74.5#
39	37.9	29.6	44.4





#57

1,3-Dichloropropane

Concen: 0.506 ug/l

RT: 9.37 min Scan# 1348

Delta R.T. 0.01 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion: 76 Resp: 1764

Ion Ratio Lower Upper

76 100

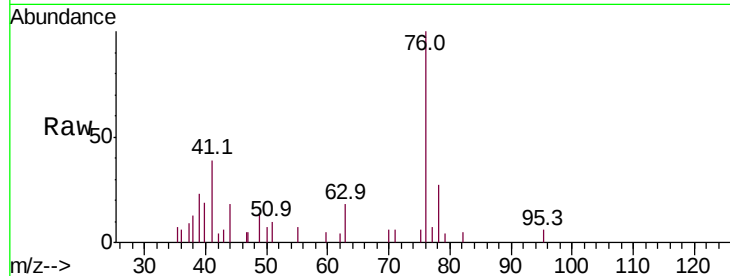
78 34.8 25.6 38.4

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Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

1500

1000

500

0

9.30

9.35

9.40

9.45

9.50

9.55

9.60

9.65

9.70

9.75

9.80

9.85

9.90

9.95

10.00

10.05

10.10

10.15

10.20

10.25

10.30

10.35

10.40

10.45

10.50

10.55

10.60

10.65

10.70

10.75

10.80

10.85

10.90

10.95

11.00

11.05

11.10

11.15

11.20

11.25

11.30

11.35

11.40

11.45

11.50

11.55

11.60

11.65

11.70

11.75

11.80

11.85

11.90

11.95

12.00

12.05

12.10

12.15

12.20

12.25

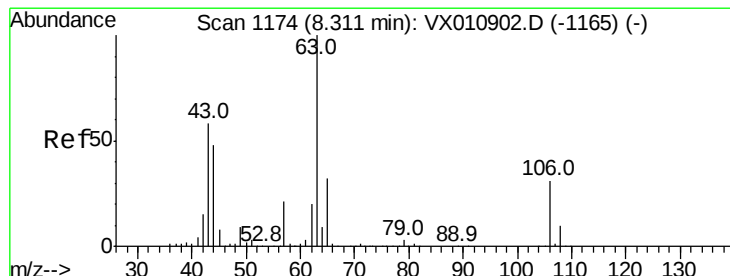
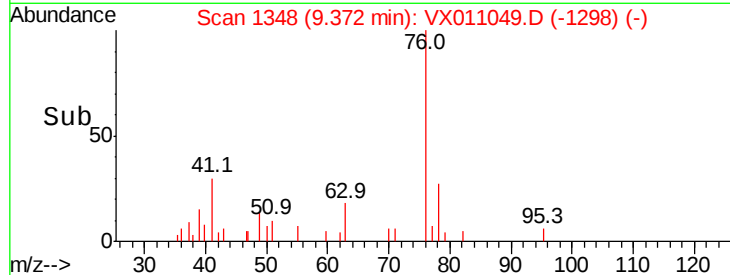
12.30

12.35

12.40

12.45

12.50



#58

2-Chloroethyl Vinyl ether

Concen: 2.110 ug/l

RT: 8.31 min Scan# 1174

Delta R.T. -0.00 min

Lab File: VX011049.D

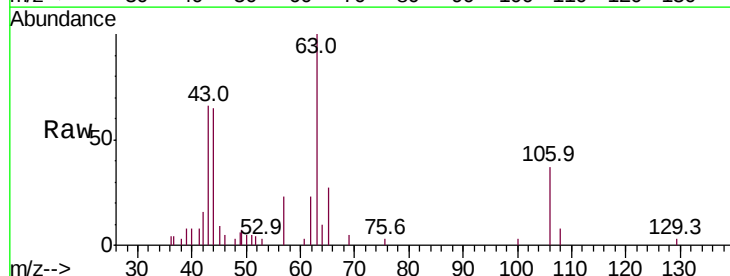
Acq: 23 Jul 2019 10:55

Tgt Ion: 63 Resp: 3235

Ion Ratio Lower Upper

63 100

106 33.0 24.0 36.0



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V

2000

1500

1000

500

0

8.25

8.30

8.35

8.40

8.45

8.50

8.55

8.60

8.65

8.70

8.75

8.80

8.85

8.90

8.95

9.00

9.05

9.10

9.15

9.20

9.25

9.30

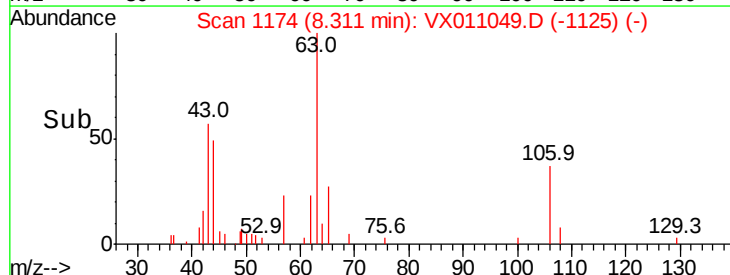
9.35

9.40

9.45

9.50

9.55



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V

2000

1500

1000

500

0

8.25

8.30

8.35

8.40

8.45

8.50

8.55

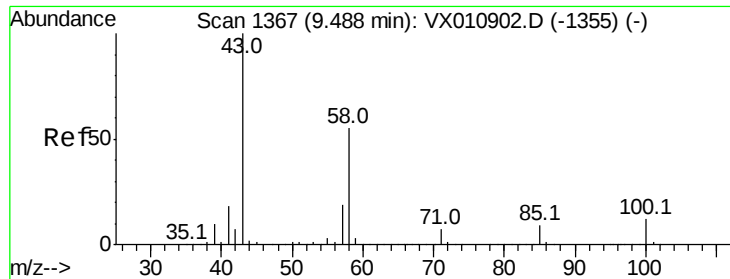
8.60

8.65

8.70

8.75

8.80



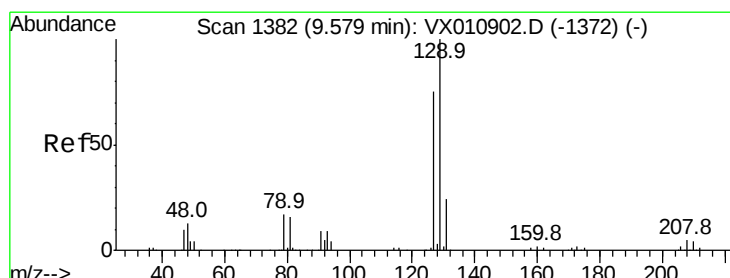
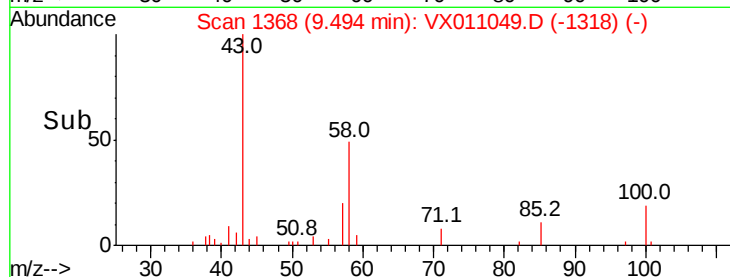
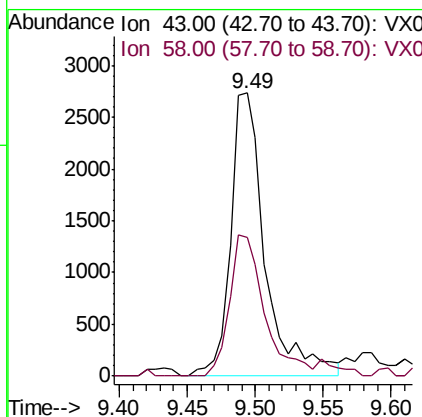
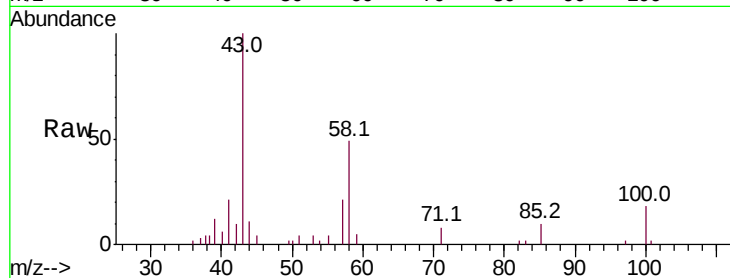
#59
2-Hexanone
Concen: 2.151 ug/l
RT: 9.49 min Scan# 1368
Delta R.T. 0.01 min
Lab File: VX011049.D
Acq: 23 Jul 2019 10:55

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

Tot Ion: 43 Resp: 4825
Ion Ratio Lower Upper
43 100
58 50.6 28.0 83.9

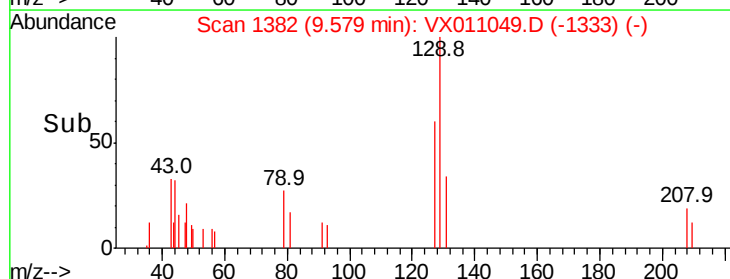
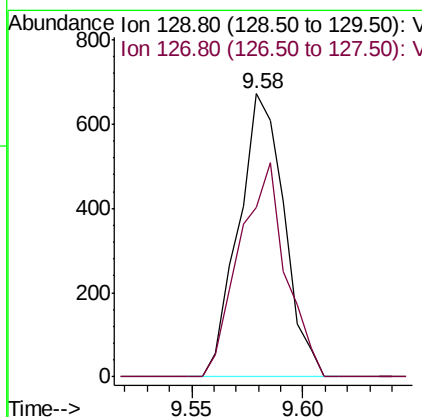
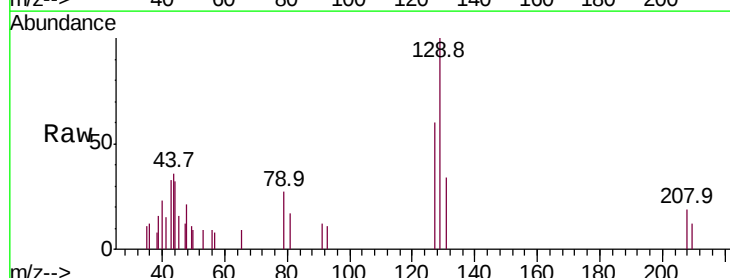
Manual Integrations
APPROVED

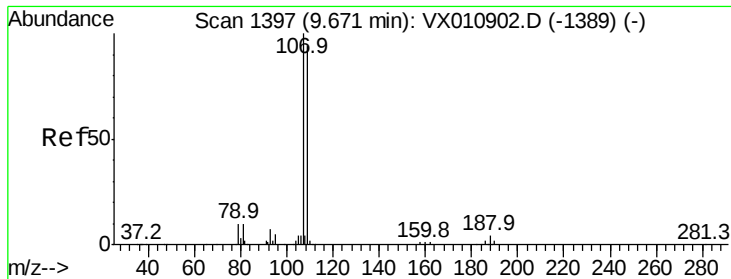
MMDadoda
7/25/2019 3:06:46 PM



#60
Dibromochloromethane
Concen: 0.430 ug/l
RT: 9.58 min Scan# 1382
Delta R.T. 0.00 min
Lab File: VX011049.D
Acq: 23 Jul 2019 10:55

Tgt Ion: 129 Resp: 957
Ion Ratio Lower Upper
129 100
127 77.3 38.6 115.8





#61

1,2-Dibromoethane

Concen: 0.430 ug/l

RT: 9.67 min Scan# 1397

Delta R.T. -0.00 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion:107 Resp: 1002

Ion Ratio Lower Upper

107 100

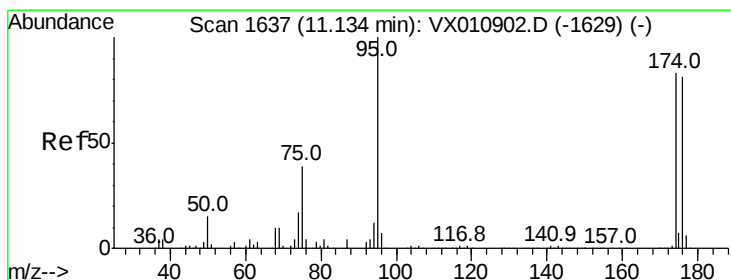
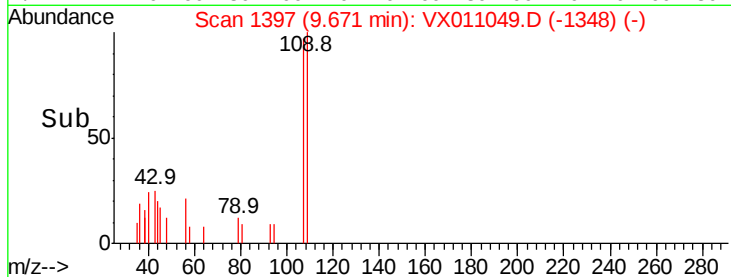
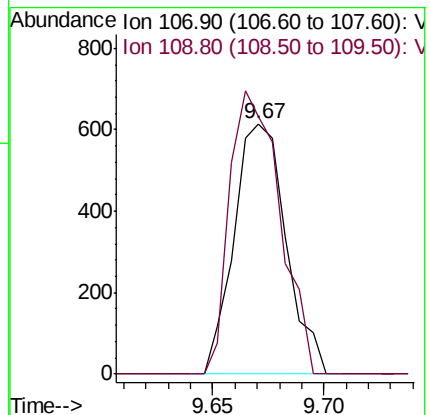
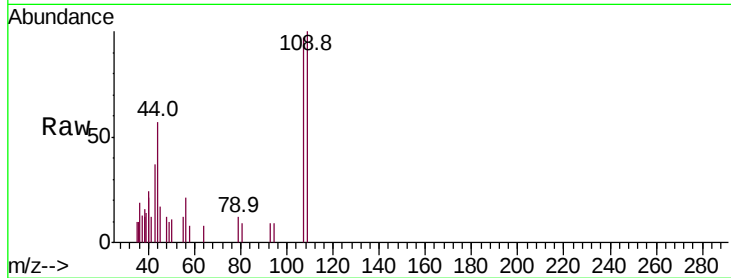
109 108.7 75.4 113.0

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#62

4-Bromofluorobenzene

Concen: 45.920 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

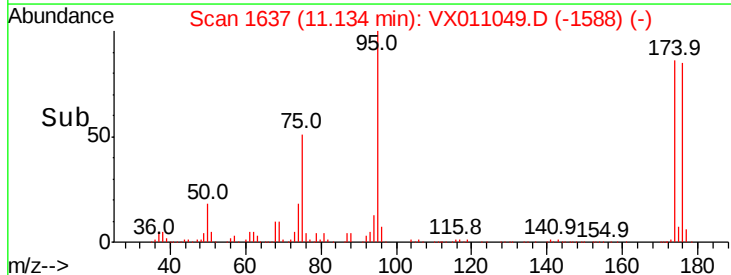
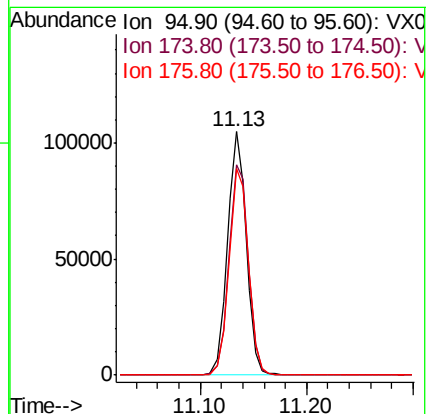
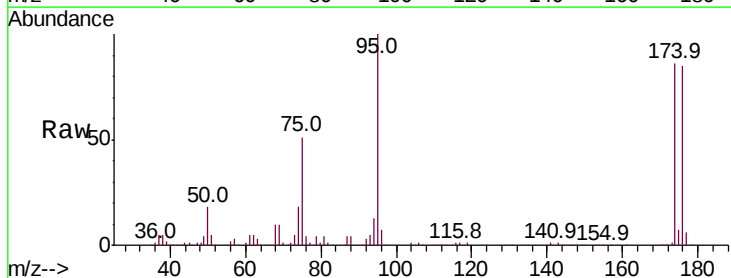
Tgt Ion: 95 Resp: 129625

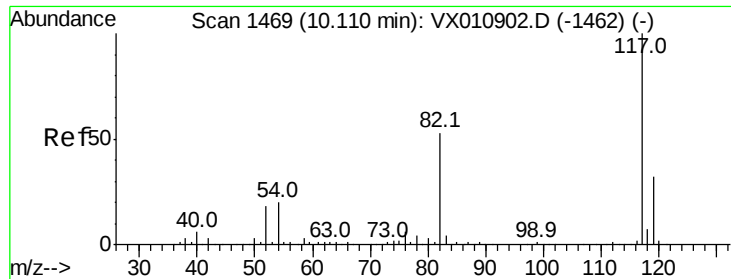
Ion Ratio Lower Upper

95 100

174 89.8 0.0 180.6

176 87.5 0.0 173.8





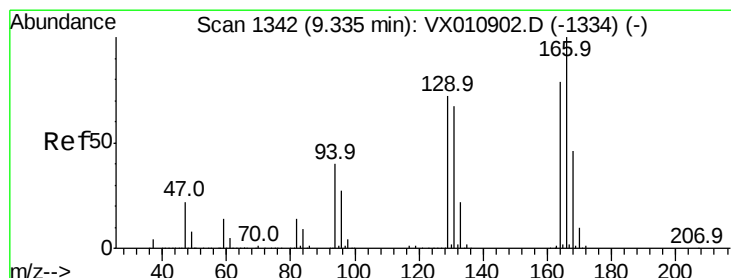
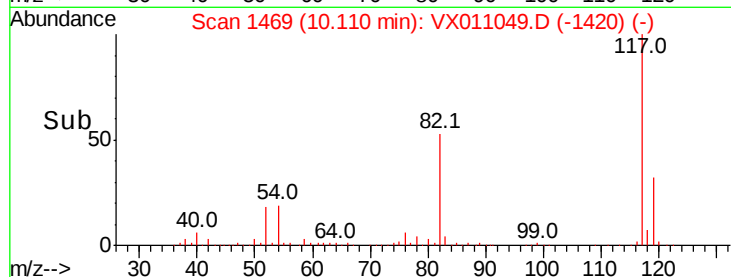
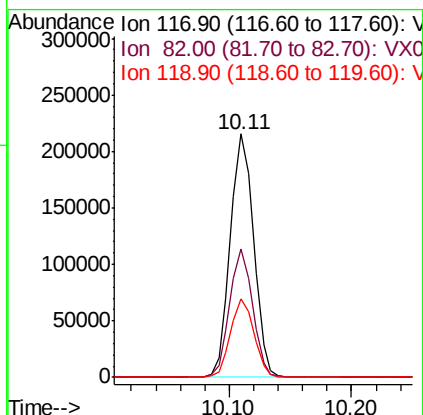
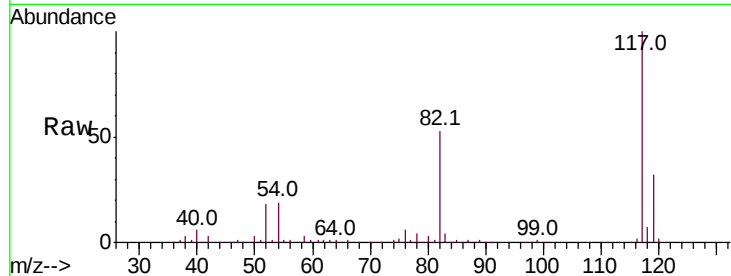
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011049.D
Acq: 23 Jul 2019 10:55

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

Tot Ion	Ratio	Resp	Lower	Upper
117	100	285190		
82	52.6	42.6	63.8	
119	32.3	25.9	38.9	

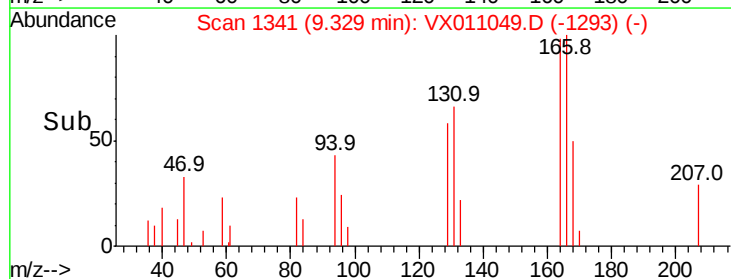
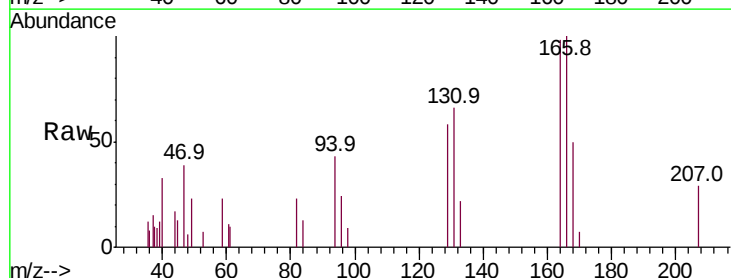
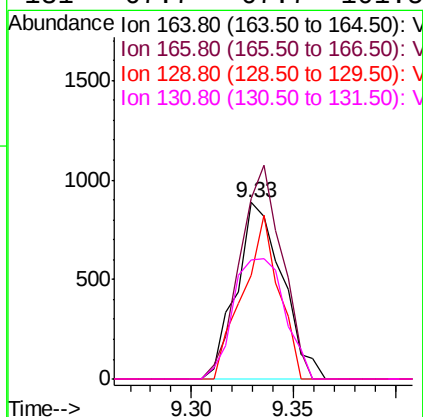
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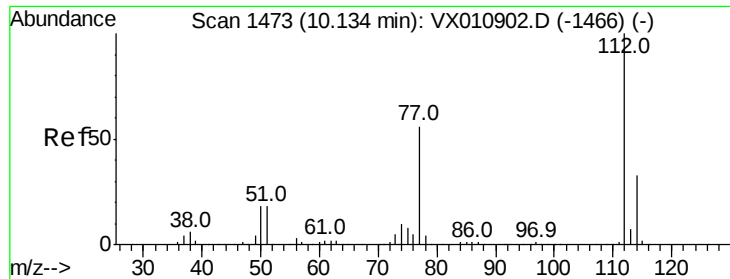
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#64
Tetrachloroethene
Concen: 0.619 ug/l
RT: 9.33 min Scan# 1341
Delta R.T. -0.01 min
Lab File: VX011049.D
Acq: 23 Jul 2019 10:55

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	1389		
166	102.4	100.8	151.2	
129	59.1	72.6	109.0	
131	67.7	67.7	101.5	





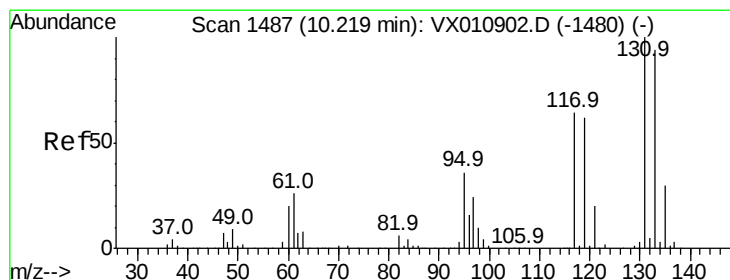
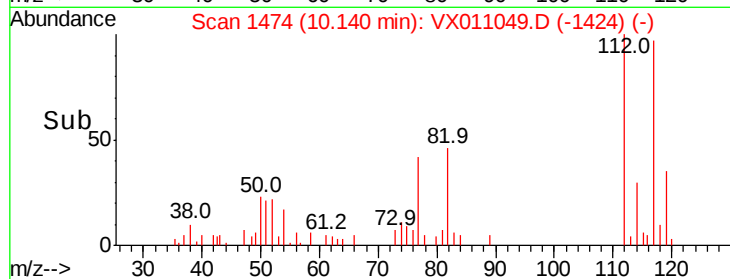
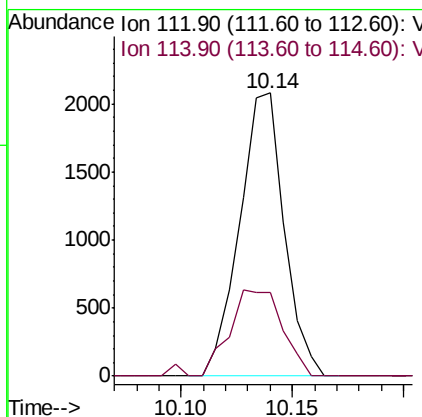
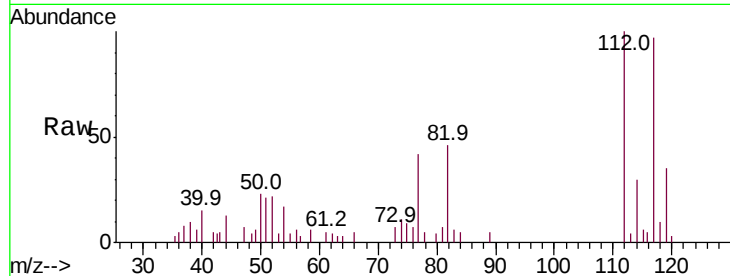
#65
Chlorobenzene
Concen: 0.497 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.01 min
Lab File: VX011049.D
Acq: 23 Jul 2019 10:55

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

Tot Ion:112 Resp: 2911
Ion Ratio Lower Upper
112 100
114 29.6 26.2 39.4

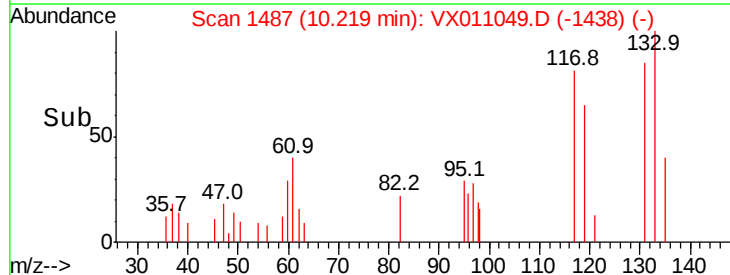
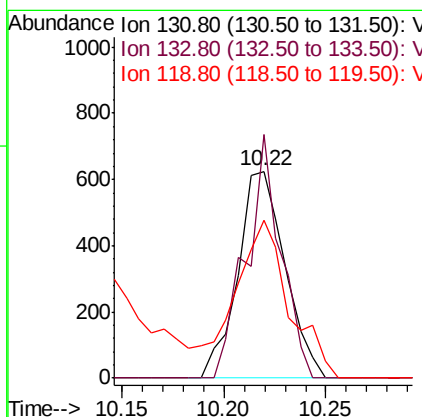
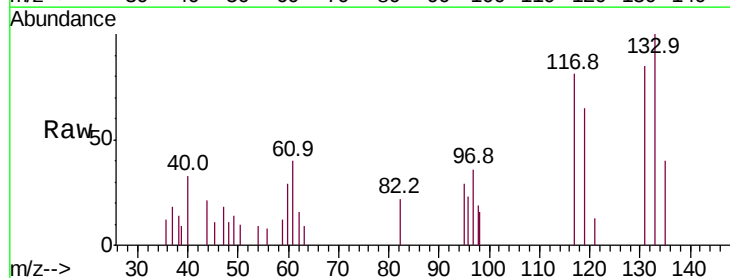
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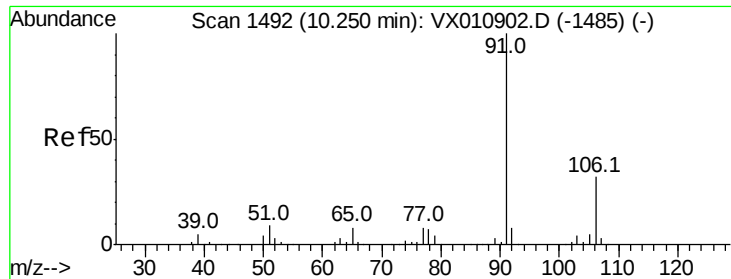
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 0.489 ug/l
RT: 10.22 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VX011049.D
Acq: 23 Jul 2019 10:55

Tgt Ion:131 Resp: 1007
Ion Ratio Lower Upper
131 100
133 86.5 47.1 141.4
119 0.0 31.9 95.7#





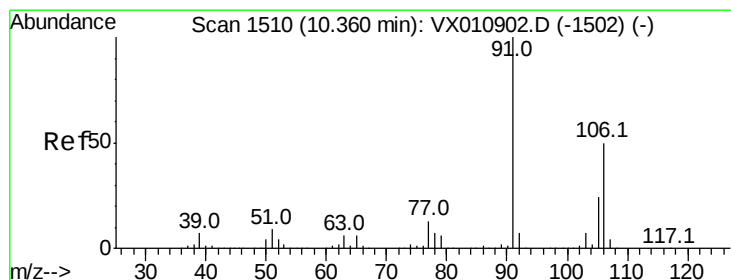
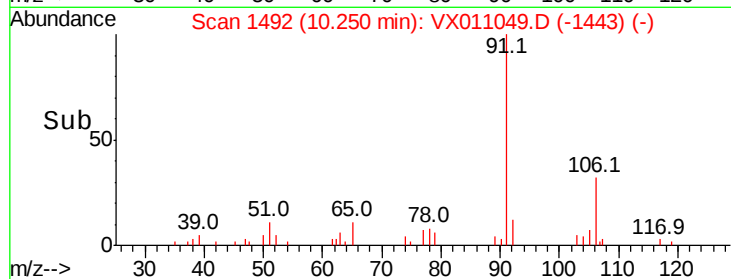
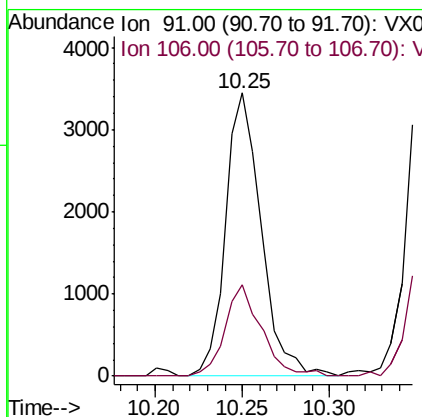
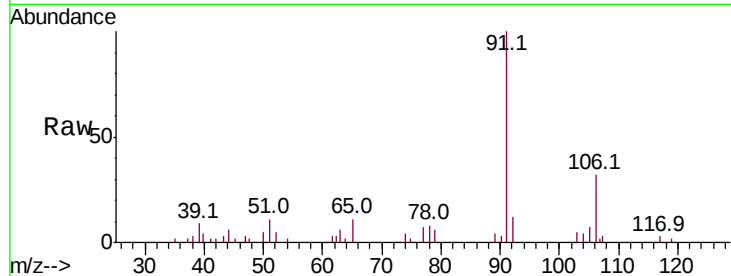
#67
Ethyl Benzene
Concen: 0.490 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. -0.00 min
Lab File: VX011049.D
Acq: 23 Jul 2019 10:55

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

Tot Ion: 91 Resp: 4884
Ion Ratio Lower Upper
91 100
106 32.4 25.4 38.2

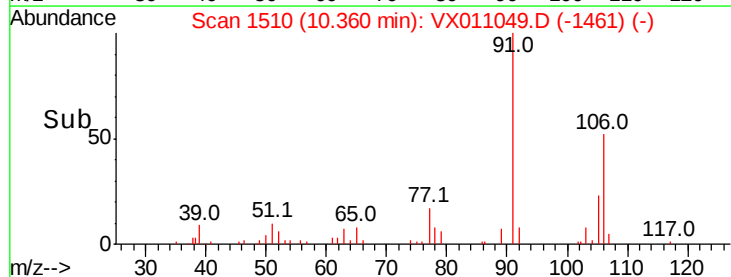
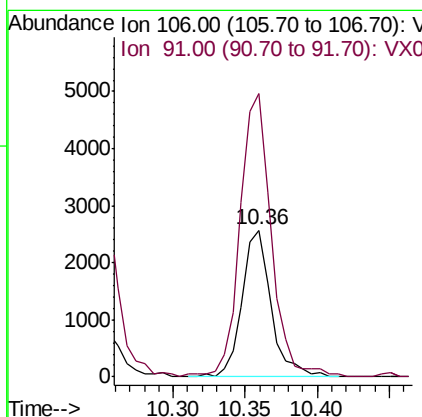
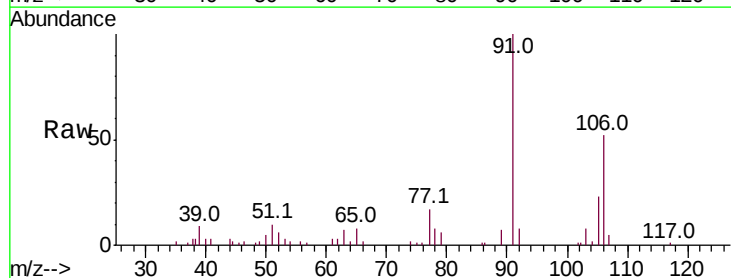
Manual Integrations
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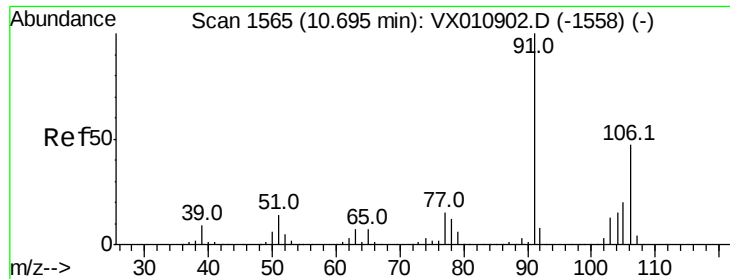
MMDadoda
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#68
m/p-Xylenes
Concen: 0.941 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX011049.D
Acq: 23 Jul 2019 10:55

Tgt Ion: 106 Resp: 3598
Ion Ratio Lower Upper
106 100
91 208.2 160.1 240.1





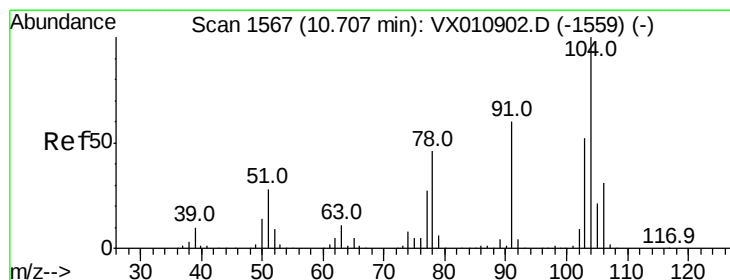
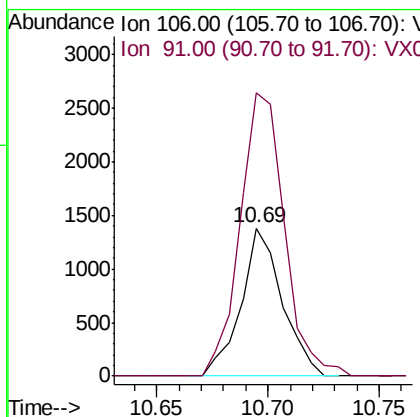
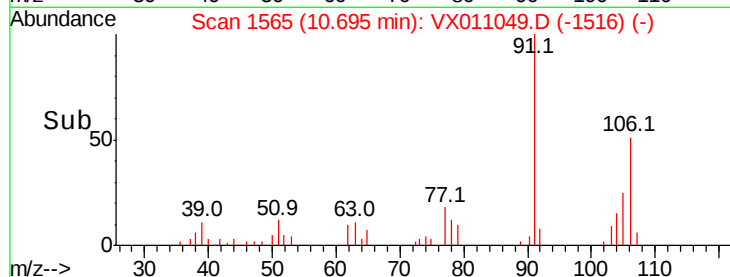
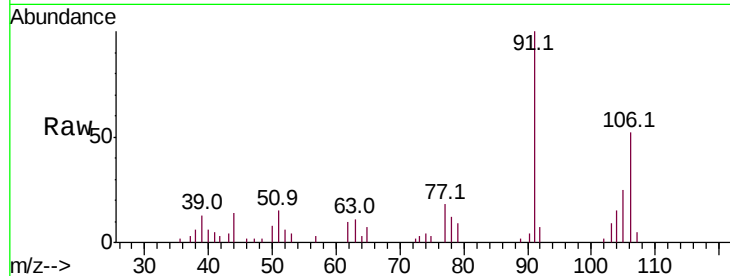
#69
o-Xylene
Concen: 0.477 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. -0.00 min
Lab File: VX011049.D
Acq: 23 Jul 2019 10:55

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

Tot Ion:106 Resp: 1782
Ion Ratio Lower Upper
106 100
91 206.6 105.1 315.3

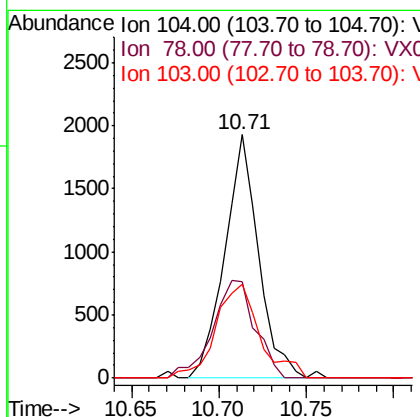
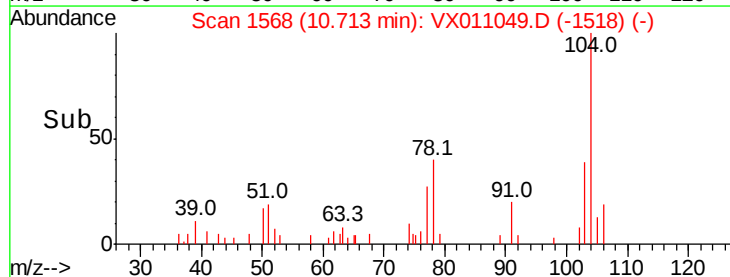
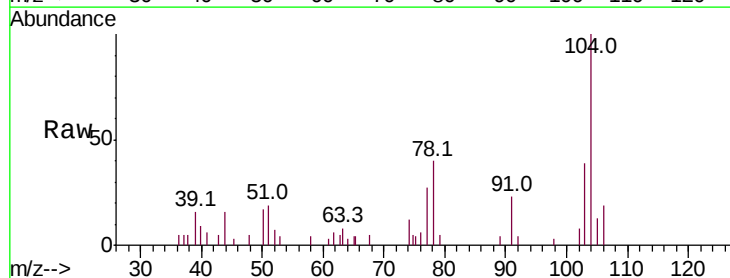
Manual Integrations
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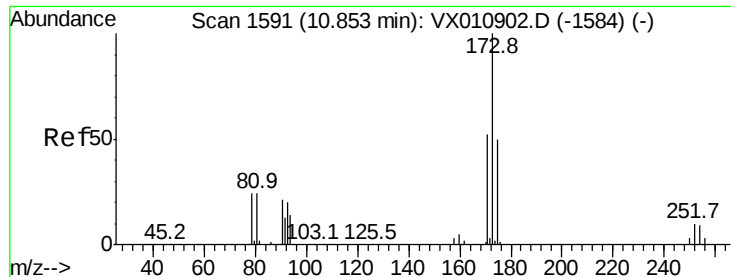
MMDadoda
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#70
Styrene
Concen: 0.419 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. 0.01 min
Lab File: VX011049.D
Acq: 23 Jul 2019 10:55

Tgt Ion:104 Resp: 2609
Ion Ratio Lower Upper
104 100
78 50.1 38.8 58.2
103 49.9 44.2 66.4





#71

Bromoform

Concen: 0.418 ug/l

RT: 10.85 min Scan# 1591

Delta R.T. 0.00 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion:173 Resp: 686

Ion Ratio Lower Upper

173 100

175 42.1 24.6 73.6

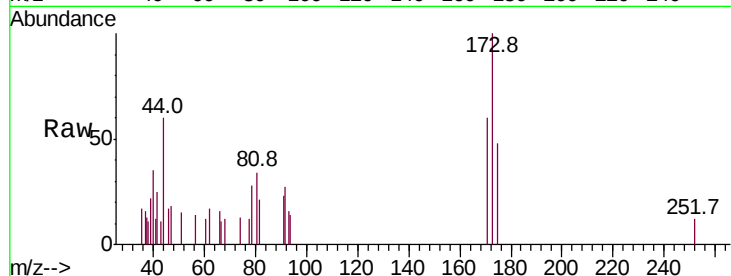
254 0.0 0.1 0.1#

Manual Integrations

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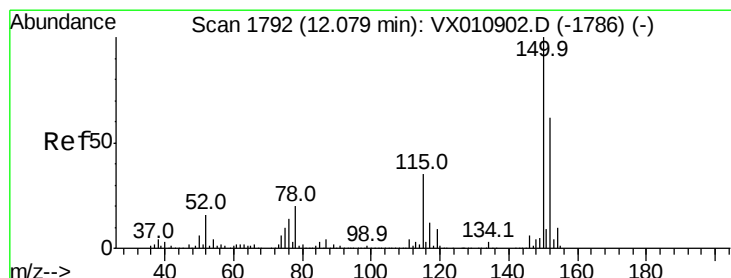
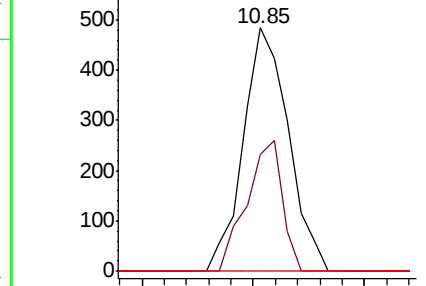
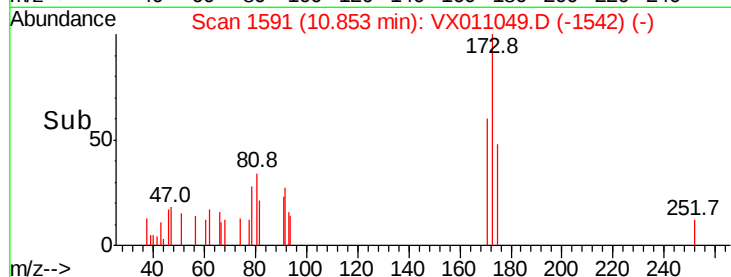
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Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1791

Delta R.T. -0.01 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

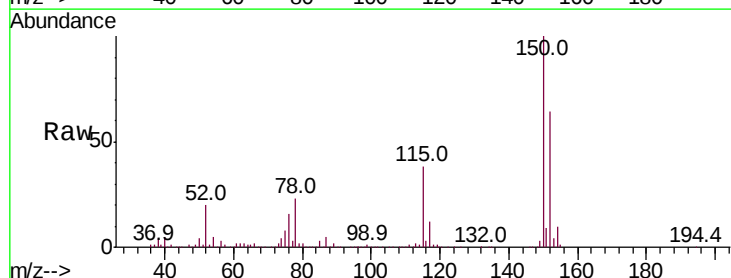
Tgt Ion:152 Resp: 140874

Ion Ratio Lower Upper

152 100

115 57.3 39.7 119.1

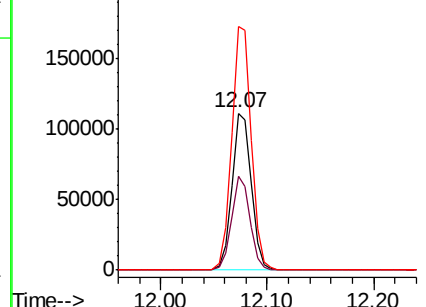
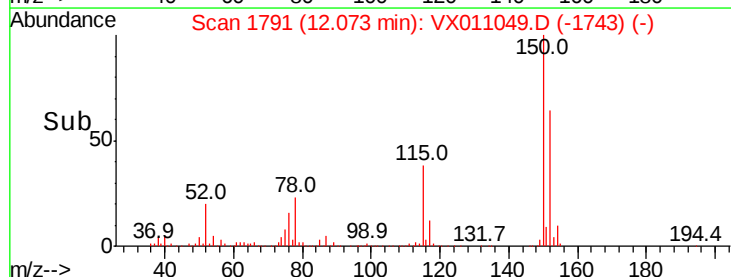
150 157.2 0.0 345.6

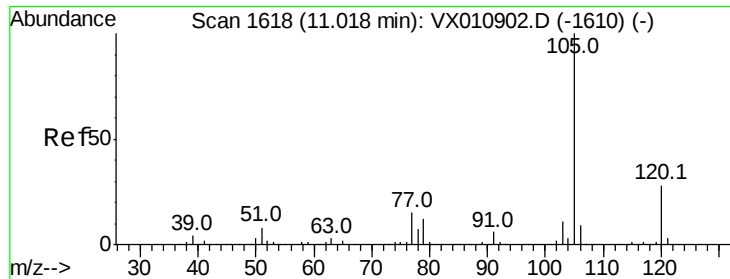


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 0.491 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion:105 Resp: 4673

Ion Ratio Lower Upper

105 100

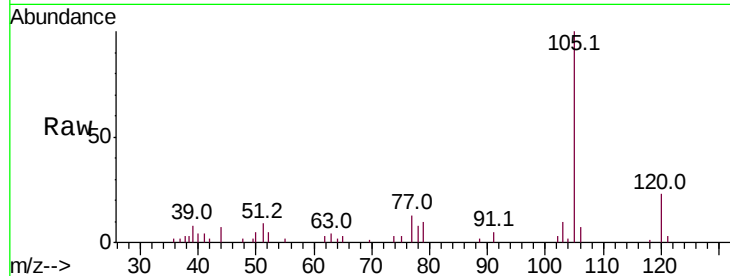
120 26.3 13.7 41.1

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

4000

3000

2000

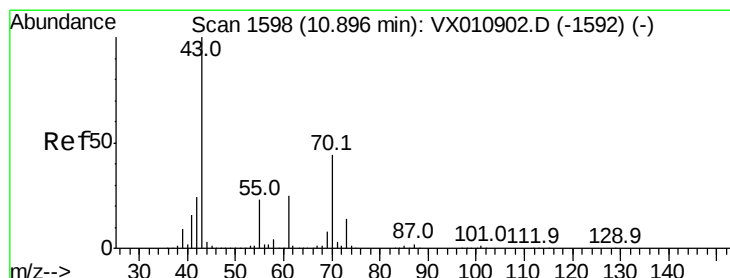
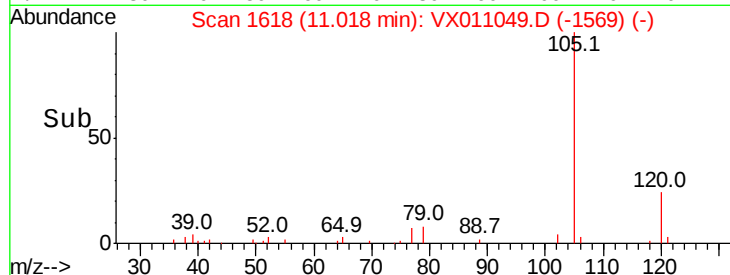
1000

0

11.02

11.05

Time-->



#74

N-ethyl acetate

Concen: 0.395 ug/l

RT: 10.90 min Scan# 1598

Delta R.T. -0.00 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Tgt Ion: 43 Resp: 1436

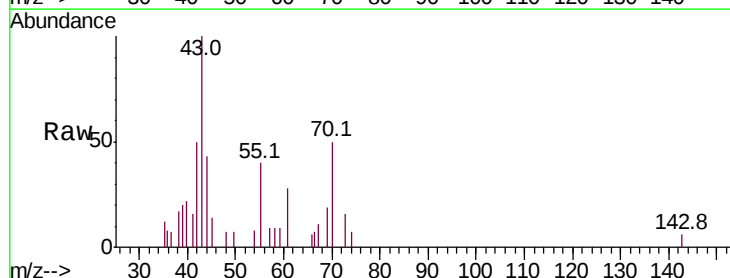
Ion Ratio Lower Upper

43 100

70 50.4 34.7 52.1

55 41.8 19.1 28.7#

61 28.8 19.9 29.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

1200

1000

800

600

400

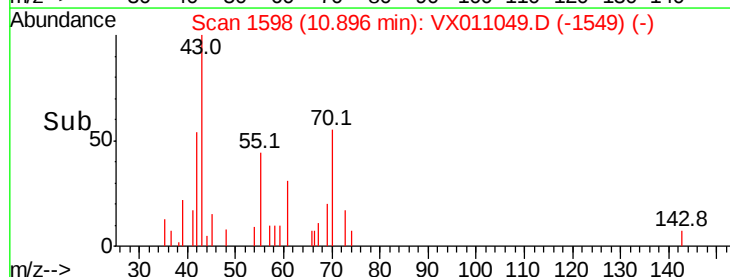
200

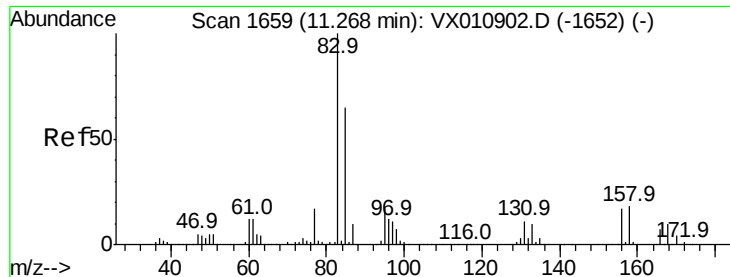
0

10.90

10.95

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 0.468 ug/l

RT: 11.26 min Scan# 1658

Delta R.T. -0.01 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Instrument :

MSVOA_X

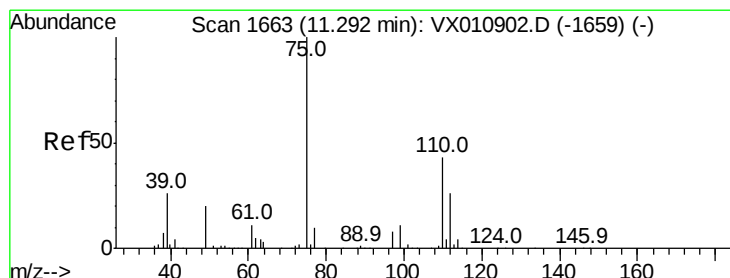
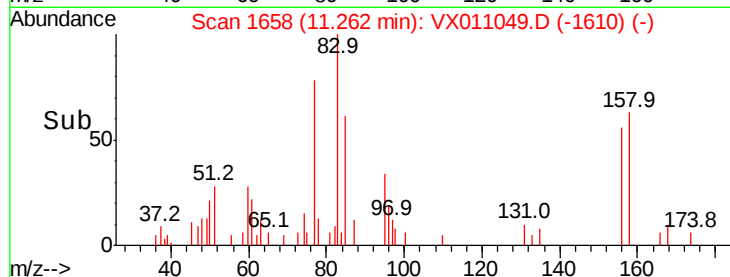
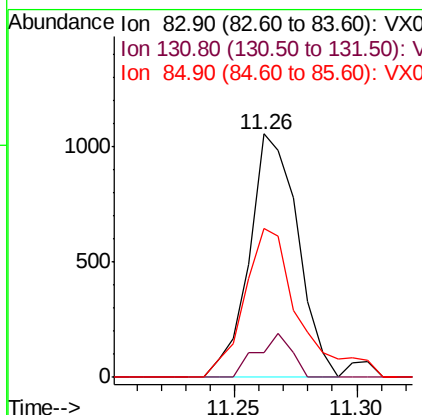
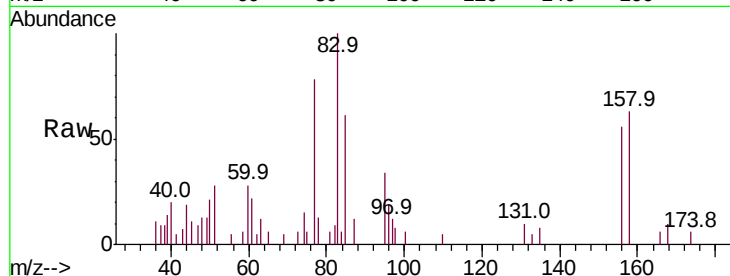
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion:	83	Resp:	1457
Ion	Ratio	Lower	Upper
83	100		
131	12.9	5.5	16.4
85	68.9	32.3	96.9

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#76

1,2,3-Trichloropropane

Concen: 0.518 ug/l m

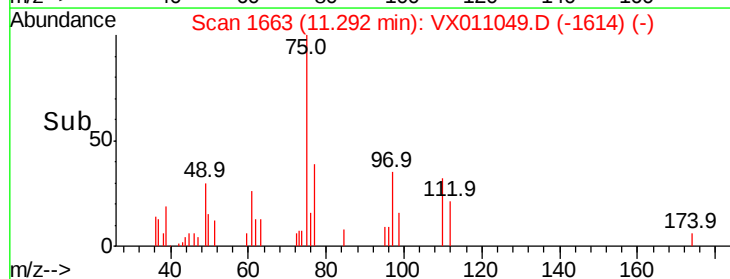
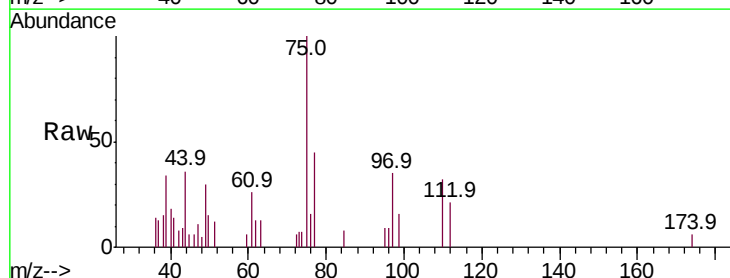
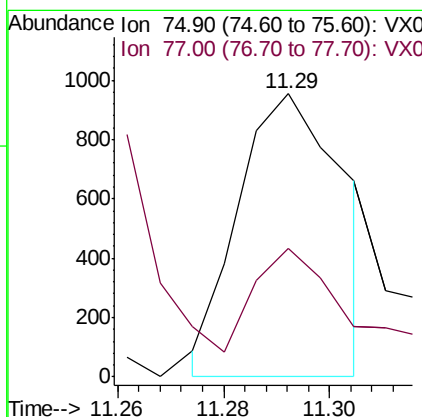
RT: 11.29 min Scan# 1663

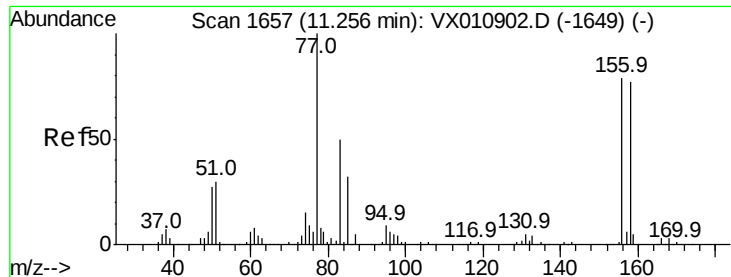
Delta R.T. -0.00 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Tgt Ion:	75	Resp:	1316
Ion	Ratio	Lower	Upper
75	100		
77	61.2	21.3	64.0





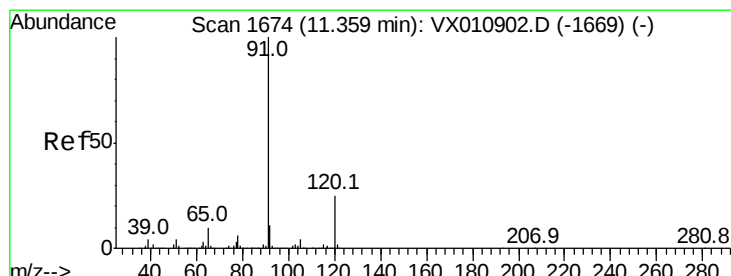
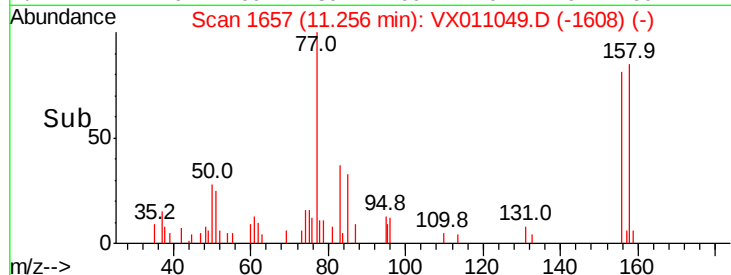
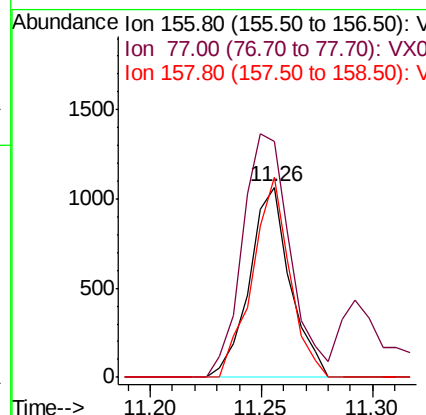
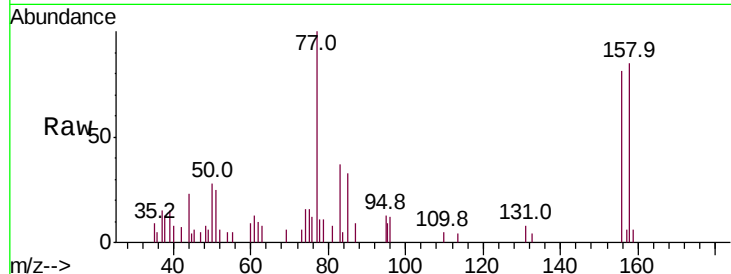
#77
Bromobenzene
Concen: 0.518 ug/l
RT: 11.26 min Scan# 1657
Delta R.T. -0.00 min
Lab File: VX011049.D
Acq: 23 Jul 2019 10:55

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

Tot Ion	Ratio	Lower	Upper
156	100		
77	150.0	68.7	206.1
158	96.2	47.9	143.7

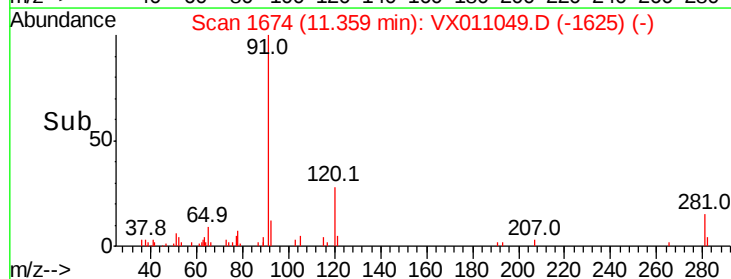
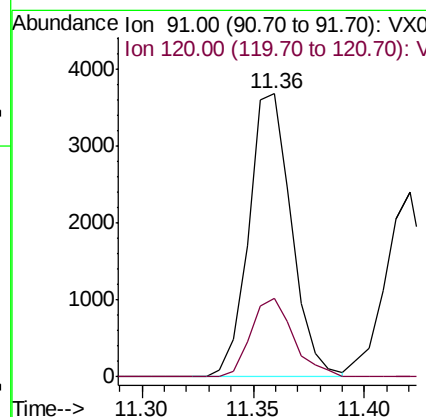
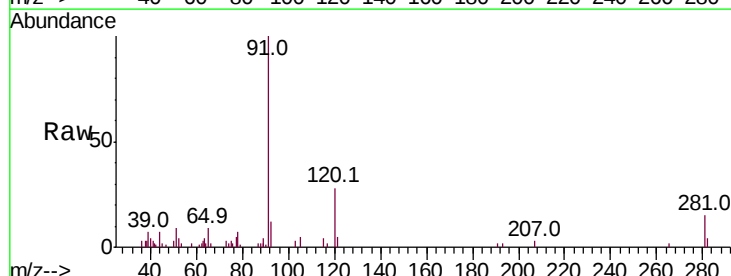
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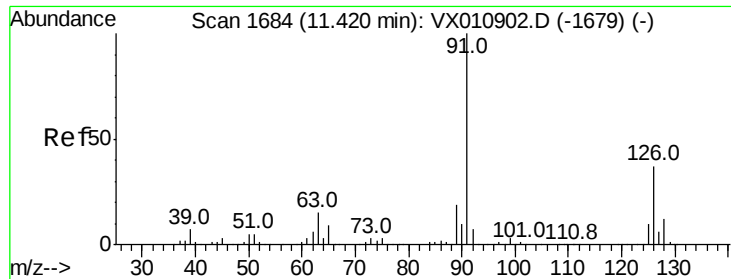
MMDadoda
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#78
n-propylbenzene
Concen: 0.468 ug/l
RT: 11.36 min Scan# 1674
Delta R.T. -0.00 min
Lab File: VX011049.D
Acq: 23 Jul 2019 10:55

Tgt Ion	Ratio	Lower	Upper
91	100		
120	27.6	12.3	36.8





#79

2-Chlorotoluene

Concen: 0.515 ug/l

RT: 11.42 min Scan# 1684

Delta R.T. -0.00 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion: 91 Resp: 3251

Ion Ratio Lower Upper

91 100

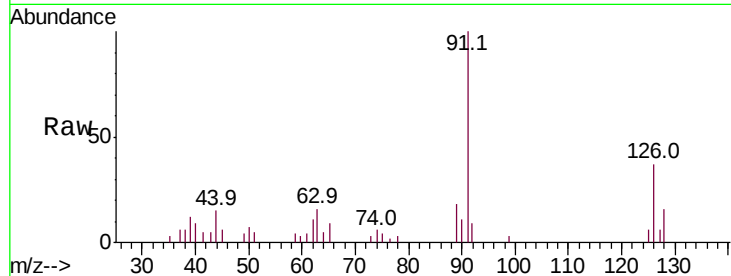
126 37.6 18.0 54.0

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Abundance Ion 91.00 (90.70 to 91.70): VX010902.D (-1679) (-)

Ion 125.90 (125.60 to 126.60): VX010902.D (-1679) (-)

4000

3000

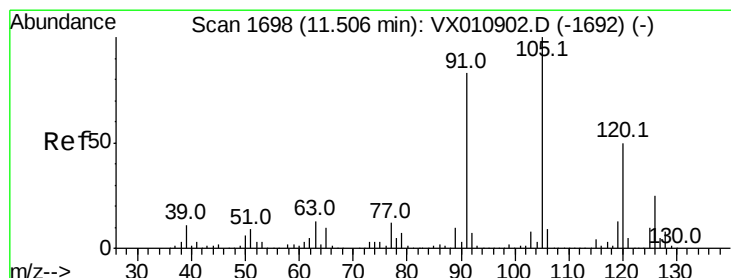
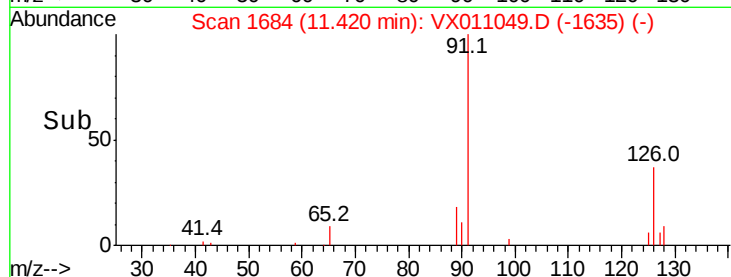
2000

1000

0

11.40 11.45

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.460 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX011049.D

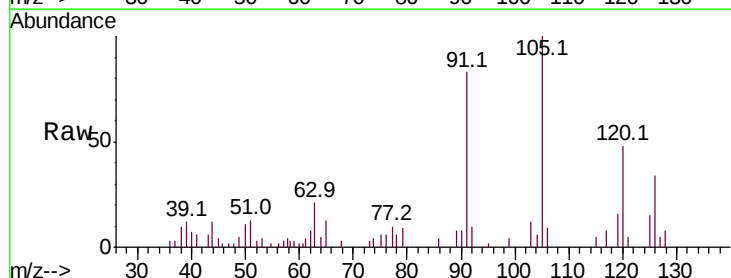
Acq: 23 Jul 2019 10:55

Tgt Ion: 105 Resp: 3661

Ion Ratio Lower Upper

105 100

120 51.4 24.6 73.8



Abundance Ion 105.00 (104.70 to 105.70): VX010902.D (-1692) (-)

Ion 120.00 (119.70 to 120.70): VX010902.D (-1692) (-)

3000

2500

2000

1500

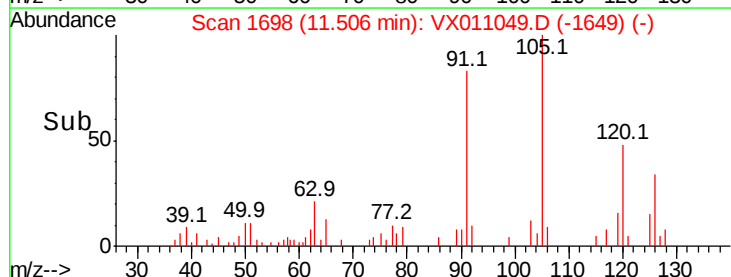
1000

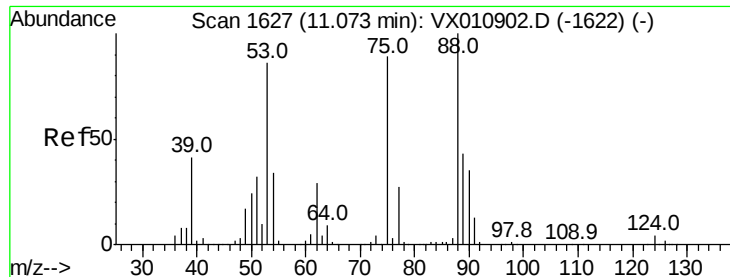
500

0

11.45 11.50 11.55

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 0.387 ug/l m

RT: 11.07 min Scan# 1626

Delta R.T. -0.01 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Instrument :

MSVOA_X

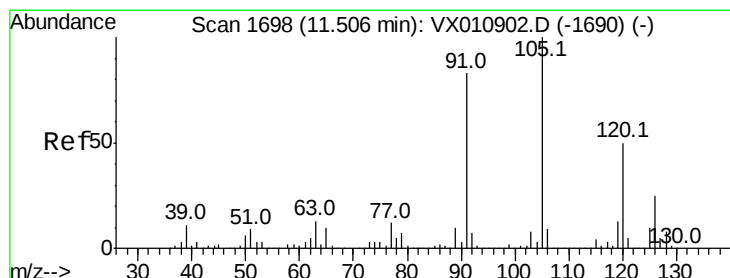
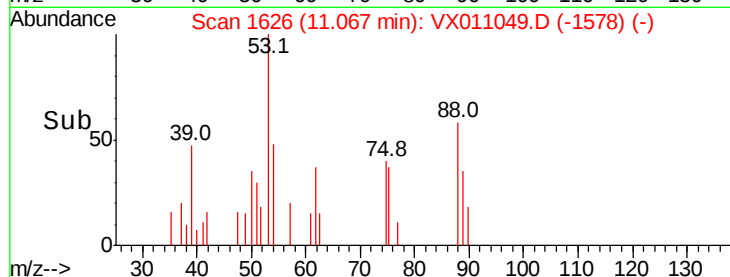
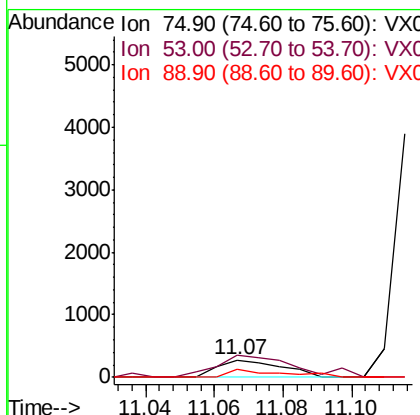
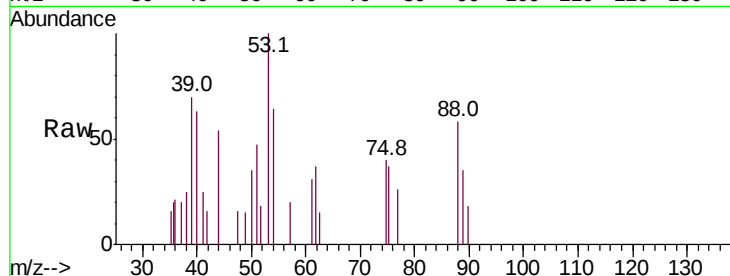
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion	Ratio	Lower	Upper
75	100		
53	11.2	76.7	115.1#
89	0.0	38.5	57.7#

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#82

4-Chlorotoluene

Concen: 0.479 ug/l

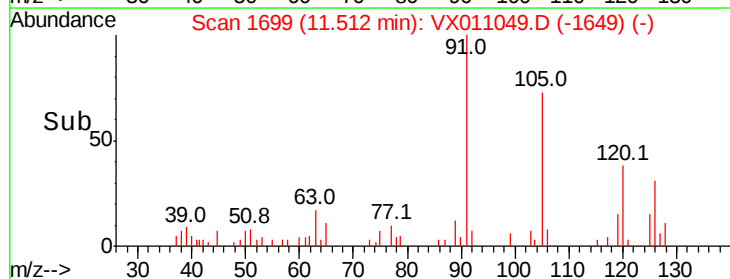
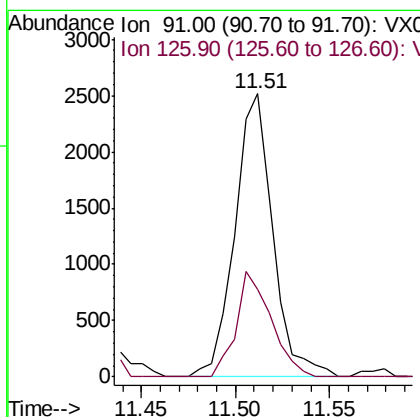
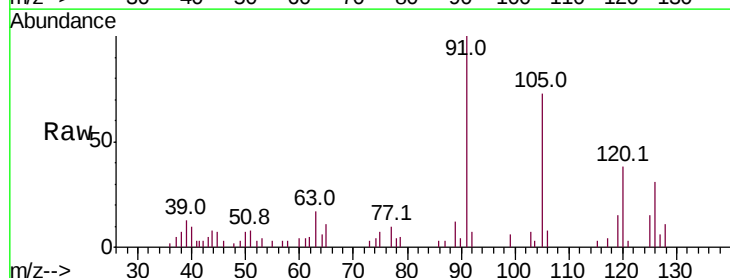
RT: 11.51 min Scan# 1699

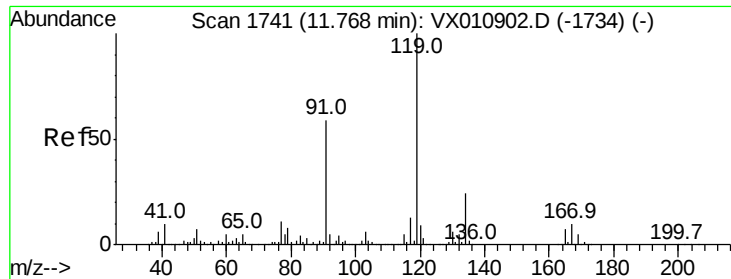
Delta R.T. 0.01 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.2	15.9	47.7





#83

tert-Butylbenzene

Concen: 0.486 ug/l

RT: 11.76 min Scan# 1740

Delta R.T. -0.01 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Instrument :

MSVOA_X

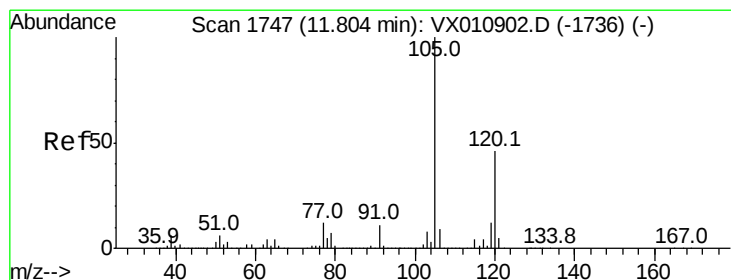
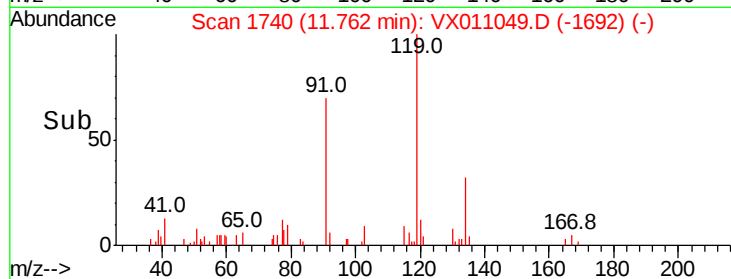
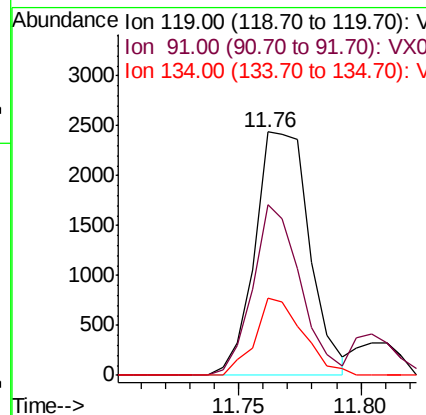
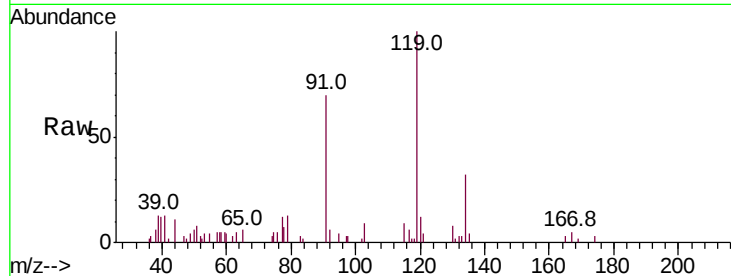
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion:	119	Resp:	3797
Ion Ratio	Lower	Upper	
119	100		
91	61.2	28.6	85.8
134	28.1	11.6	34.8

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#84

1,2,4-Trimethylbenzene

Concen: 0.480 ug/l

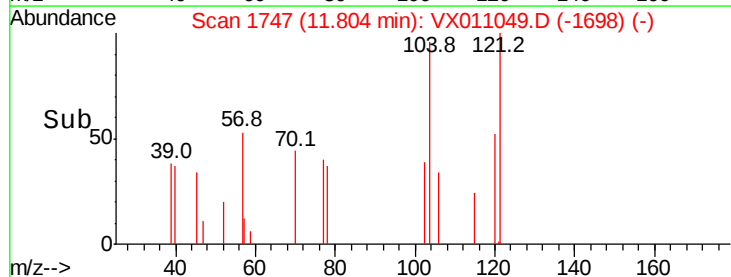
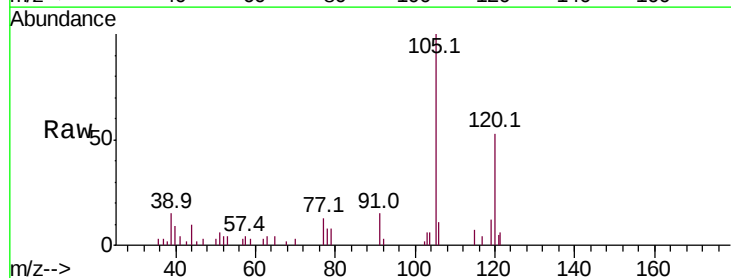
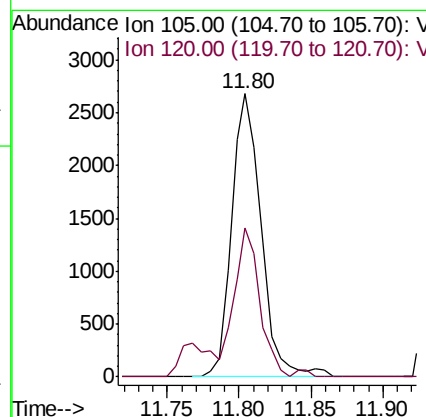
RT: 11.80 min Scan# 1747

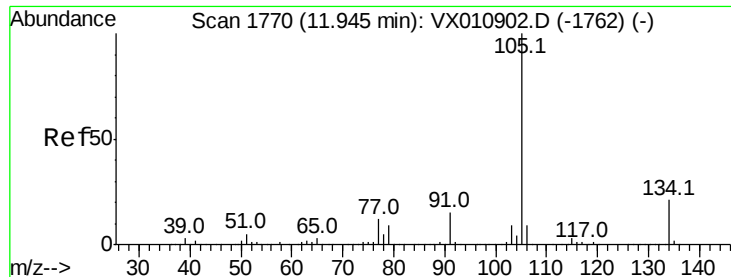
Delta R.T. -0.00 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Tgt Ion:	105	Resp:	3846
Ion Ratio	Lower	Upper	
105	100		
120	45.4	22.9	68.5





#85

sec-Butylbenzene

Concen: 0.443 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion:105 Resp: 4059

Ion Ratio Lower Upper

105 100

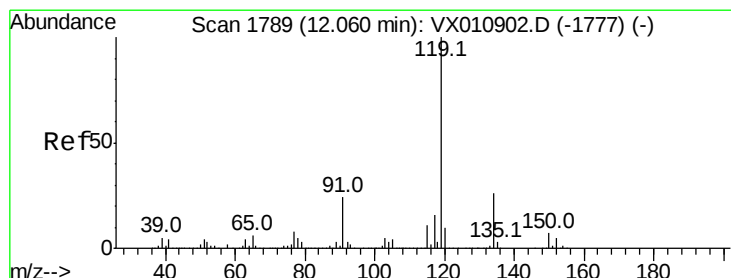
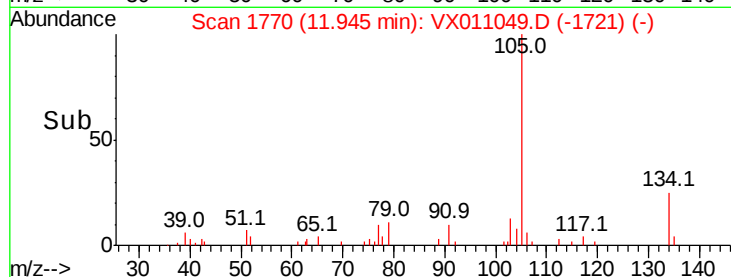
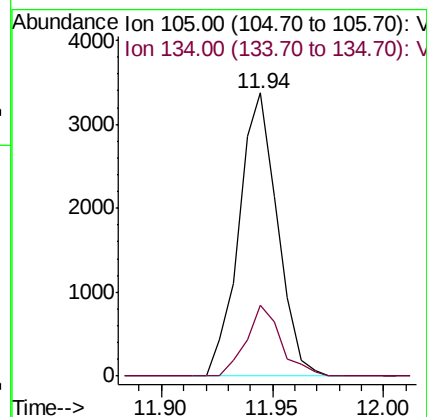
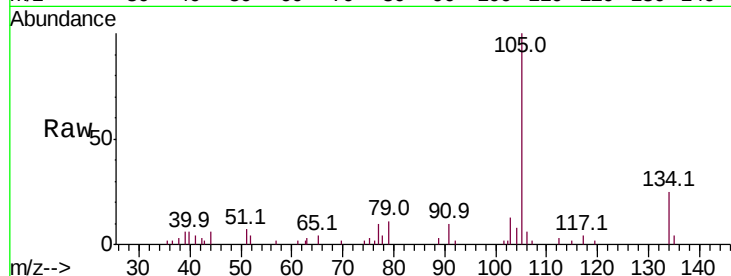
134 22.6 10.4 31.4

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#86

p-Isopropyltoluene

Concen: 0.418 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

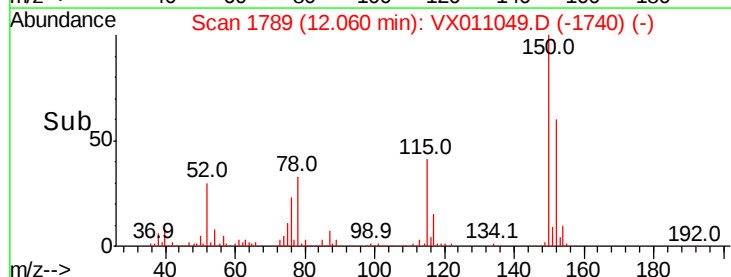
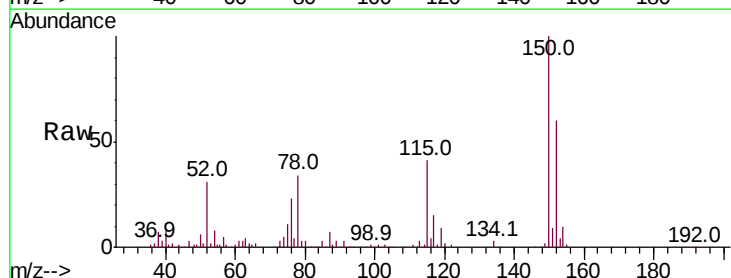
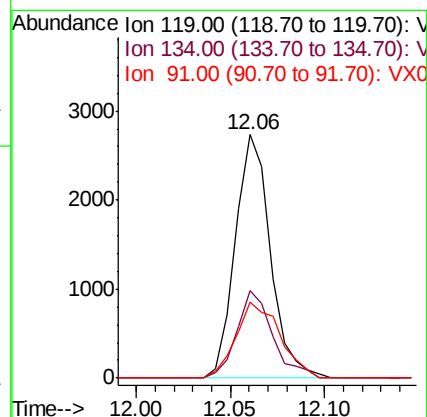
Tgt Ion:119 Resp: 3540

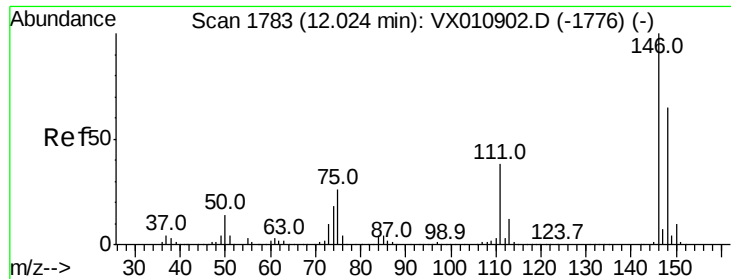
Ion Ratio Lower Upper

119 100

134 36.5 13.4 40.1

91 38.8 11.8 35.4#





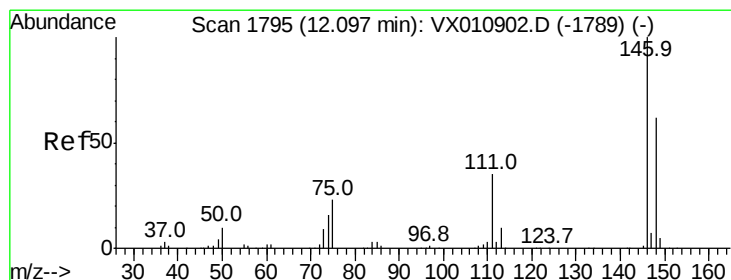
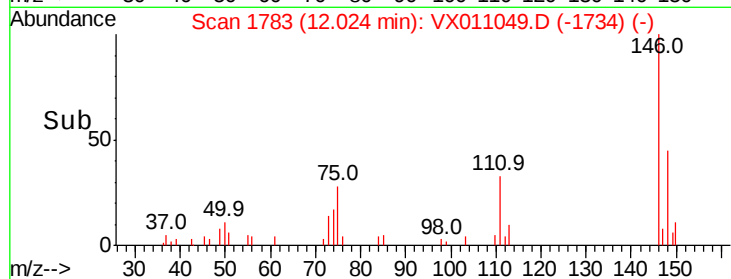
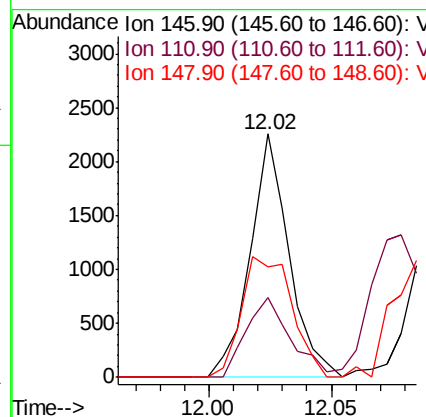
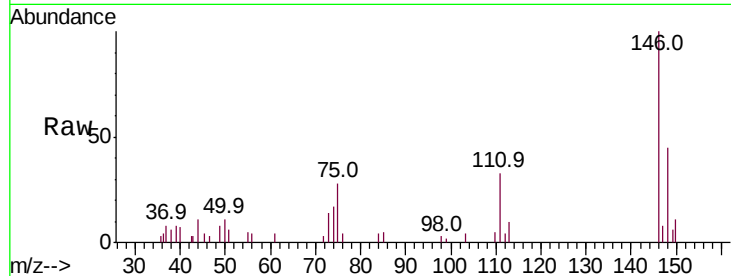
#87
 1,3-Dichlorobenzene
 Concen: 0.545 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. -0.00 min
 Lab File: VX011049.D
 Acq: 23 Jul 2019 10:55

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.9	18.9	56.9
148	64.3	32.2	96.6

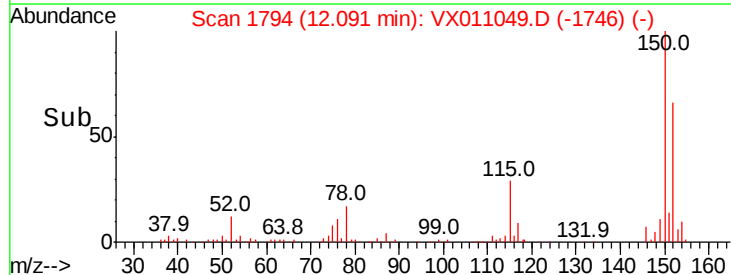
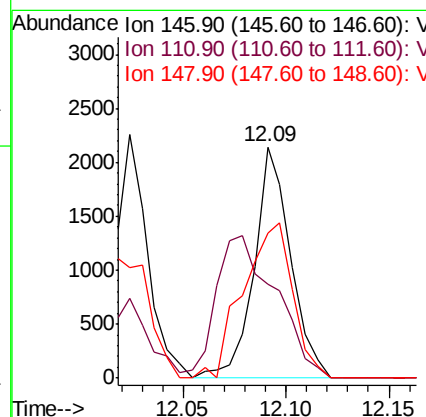
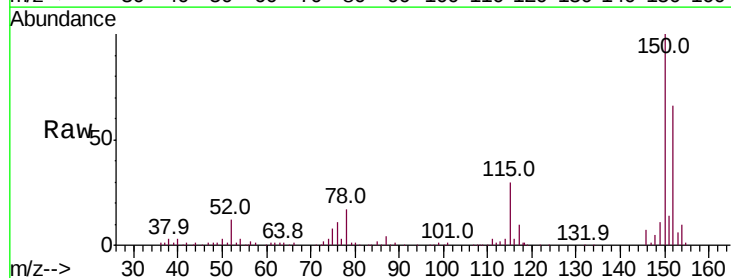
Manual Integrations
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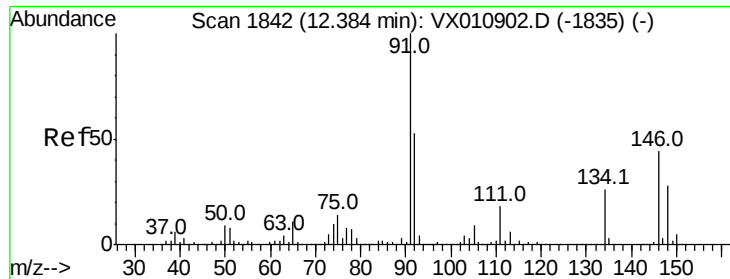
MMDadoda
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#88
 1,4-Dichlorobenzene
 Concen: 0.566 ug/l m
 RT: 12.09 min Scan# 1794
 Delta R.T. -0.01 min
 Lab File: VX011049.D
 Acq: 23 Jul 2019 10:55

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.5	18.6	55.8
148	60.3	31.6	94.7





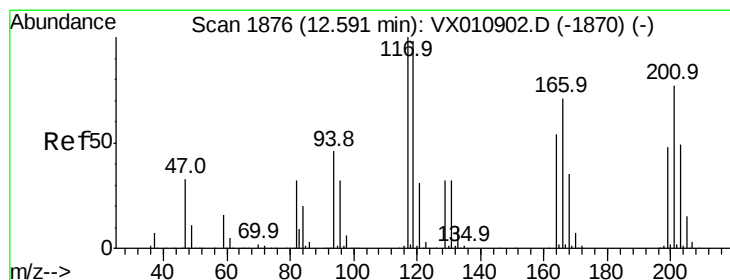
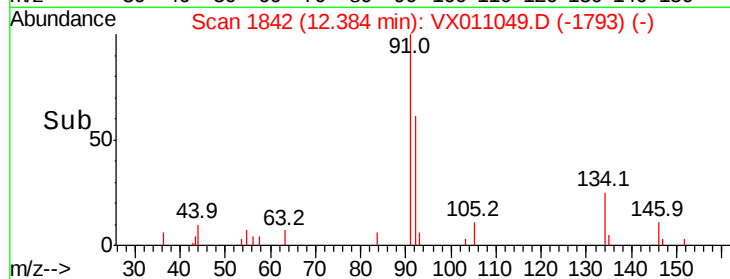
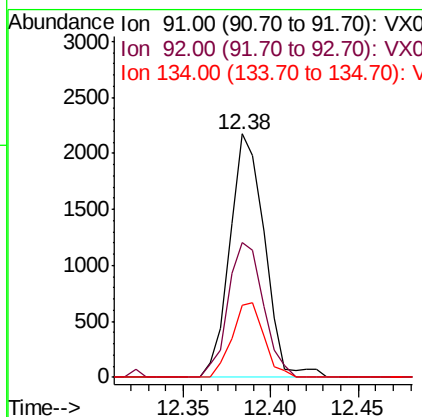
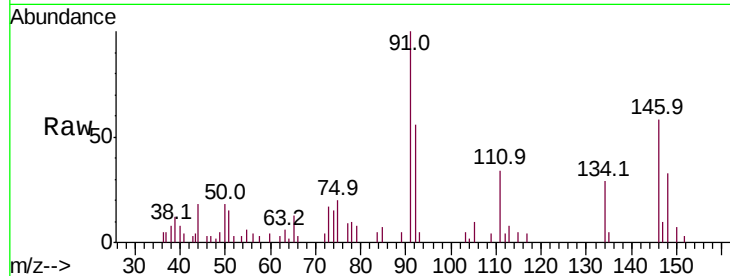
#89
n-Butylbenzene
Concen: 0.416 ug/l
RT: 12.38 min Scan# 1842
Delta R.T. -0.00 min
Lab File: VX011049.D
Acq: 23 Jul 2019 10:55

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

Tot Ion	Ratio	Lower	Upper
91	100		
92	56.0	26.2	78.5
134	28.0	13.8	41.3

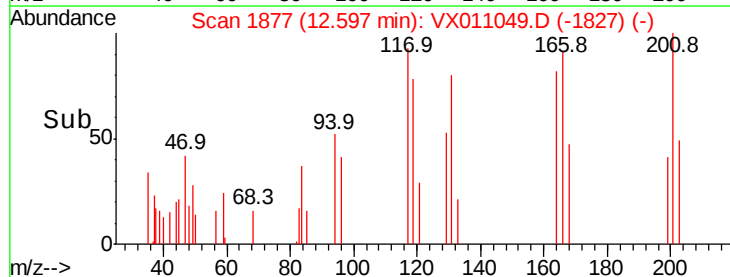
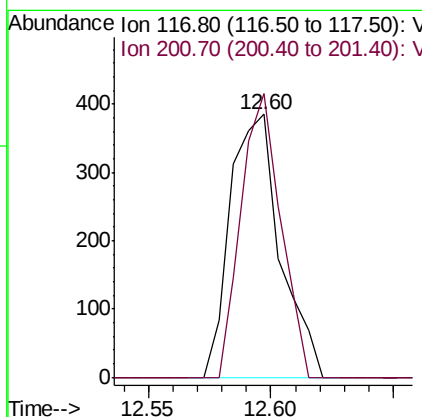
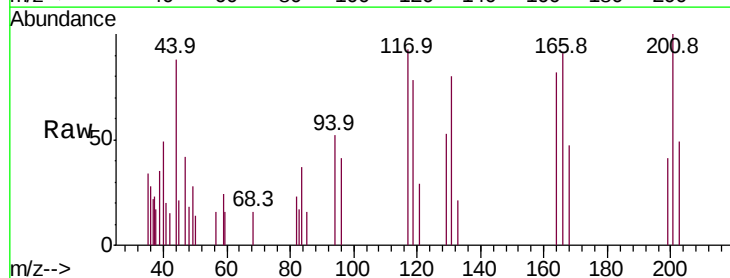
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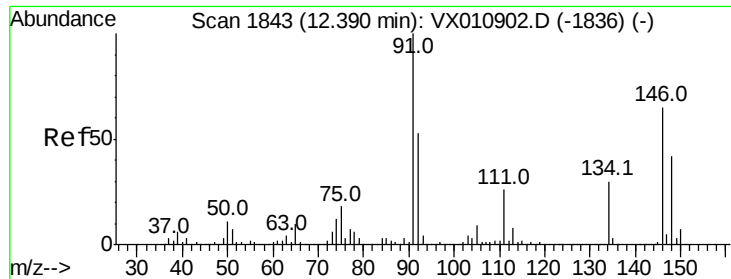
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#90
Hexachloroethane
Concen: 0.411 ug/l
RT: 12.60 min Scan# 1877
Delta R.T. 0.01 min
Lab File: VX011049.D
Acq: 23 Jul 2019 10:55

Tgt Ion	Ratio	Lower	Upper
117	100		
201	85.4	43.3	129.8





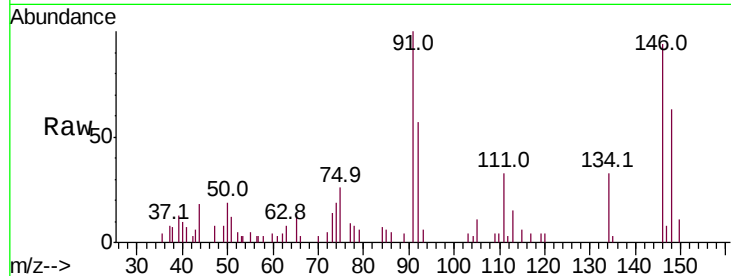
#91
 1,2-Dichlorobenzene
 Concen: 0.508 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. -0.00 min
 Lab File: VX011049.D
 Acq: 23 Jul 2019 10:55

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.4	19.9	59.7
148	64.6	32.0	96.2

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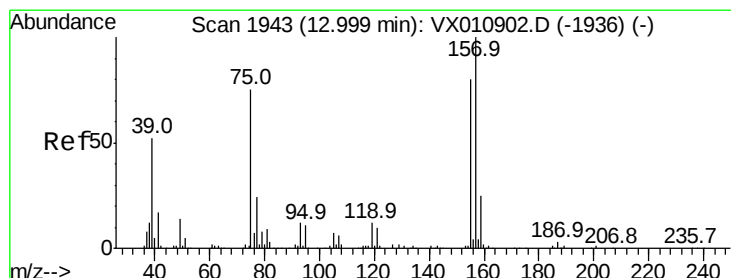
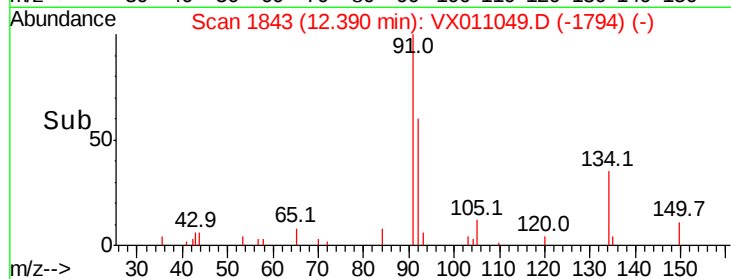
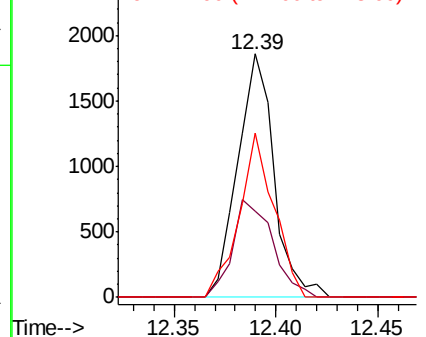


Abundance

Ion 145.90 (145.60 to 146.60): V

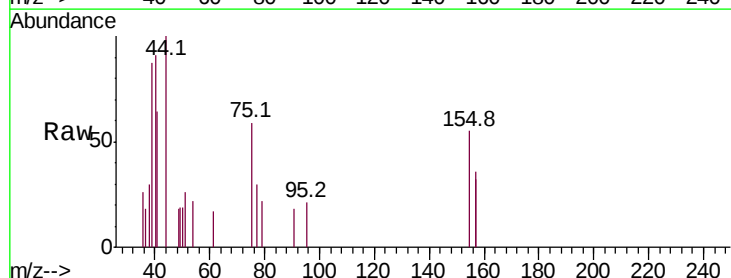
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.498 ug/l
 RT: 12.99 min Scan# 1942
 Delta R.T. -0.01 min
 Lab File: VX011049.D
 Acq: 23 Jul 2019 10:55

Tgt Ion	Ratio	Lower	Upper
75	100		
155	73.1	48.7	146.1
157	96.0	62.5	187.6

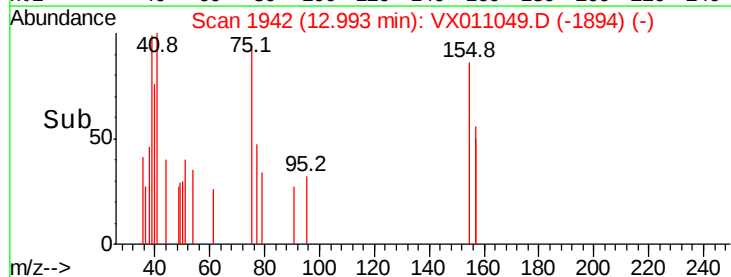
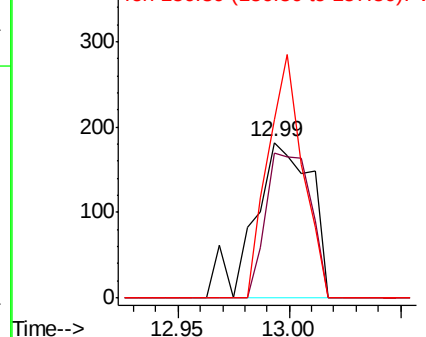


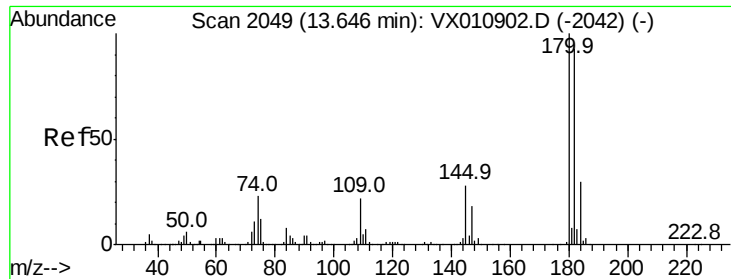
Abundance

Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





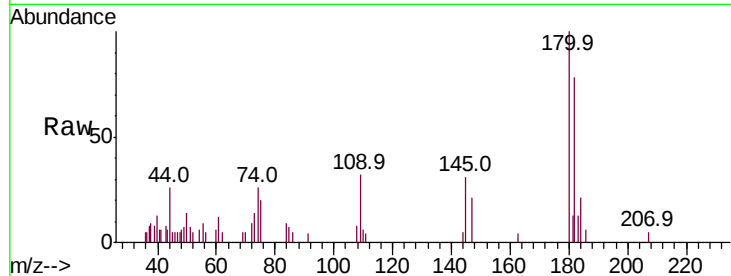
#93
 1,2,4-Trichlorobenzene
 Concen: 0.565 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. -0.00 min
 Lab File: VX011049.D
 Acq: 23 Jul 2019 10:55

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

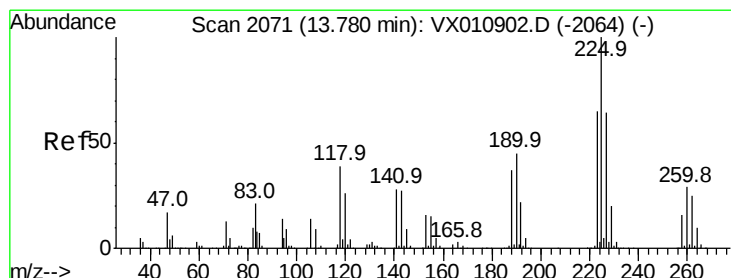
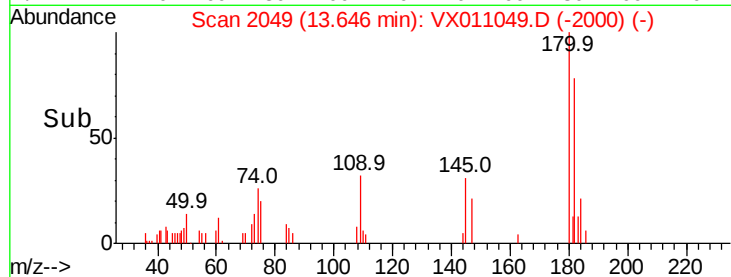
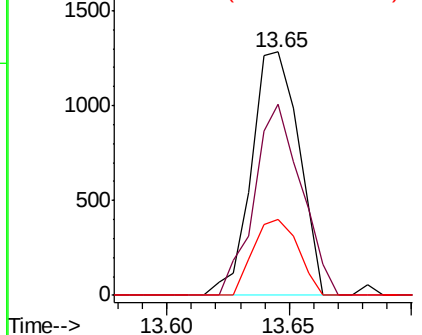
Tot Ion	Ratio	Resp	Lower	Upper
180	100	1730		
182	78.0		47.1	141.3
145	29.4		14.8	44.4

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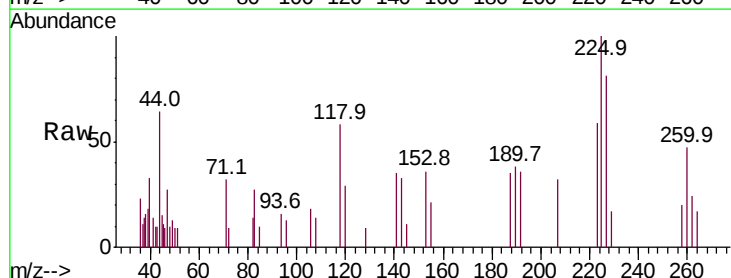


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

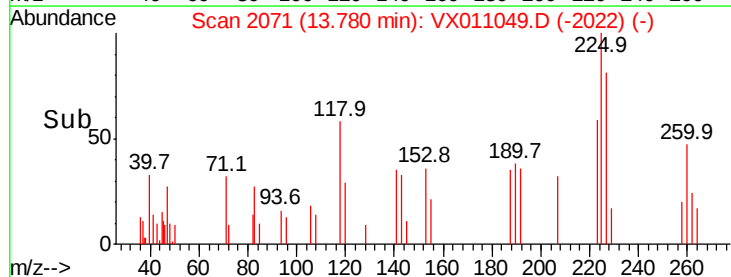
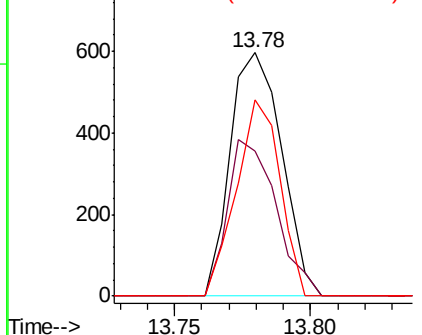


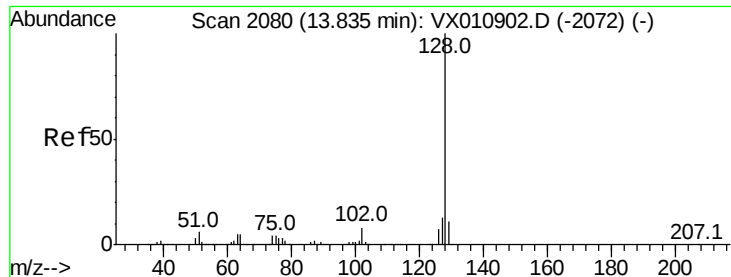
#94
 Hexachlorobutadiene
 Concen: 0.516 ug/l
 RT: 13.78 min Scan# 2071
 Delta R.T. -0.00 min
 Lab File: VX011049.D
 Acq: 23 Jul 2019 10:55

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	782		
223	60.5		31.9	95.9
227	68.2		32.5	97.4



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 0.432 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Instrument :

MSVOA_X

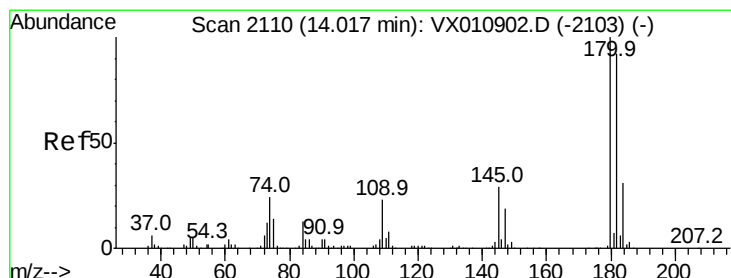
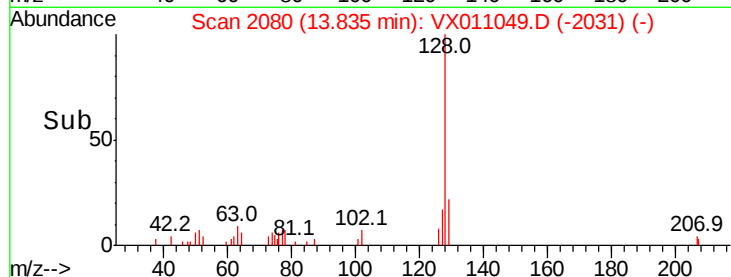
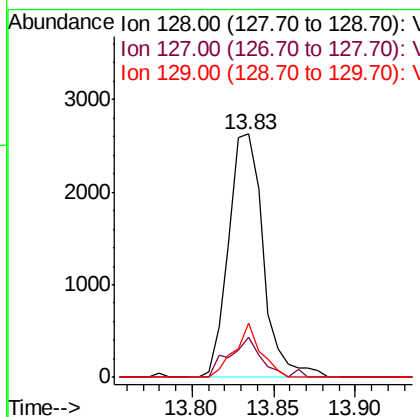
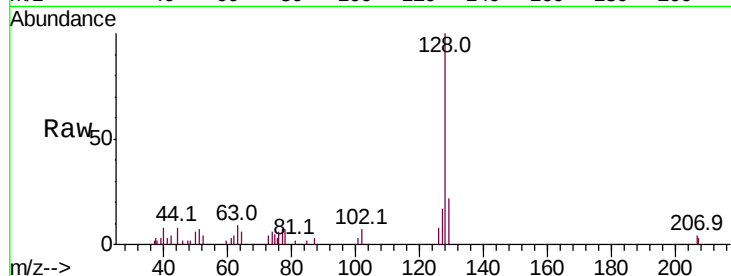
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion:	128	Resp:	3903
Ion Ratio	Lower	Upper	
128	100		
127	15.1	10.4	15.6
129	16.5	8.9	13.3#

Manual Integrations
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#96

1,2,3-Trichlorobenzene

Concen: 0.540 ug/l

RT: 14.02 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VX011049.D

Acq: 23 Jul 2019 10:55

Tgt Ion:	180	Resp:	1643
Ion Ratio	Lower	Upper	
180	100		
182	94.3	47.4	142.3
145	40.0	15.1	45.3

