

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071318\
 Data File : VN049792.D
 Acq On : 13 Jul 2018 13:06
 Operator : MD\SY
 Sample : J3762-07 LOD/MDL 0.5ppb
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

Manual Integrations
 APPROVED

MMDadoda
 7/16/2018 11:25:25 AM

Quant Time: Jul 16 03:59:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 12 15:51:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1179500	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1849733	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1598984	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	632135	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	794436	57.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.80%	
35) Dibromofluoromethane	7.59	113	754569	54.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.24%	
50) Toluene-d8	10.09	98	2304691	48.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.58%	
62) 4-Bromofluorobenzene	12.40	95	708625	41.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.14%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	7652	Below Cal		92
3) Chloromethane	2.06	50	11332	Below Cal		100
5) Bromomethane	2.57	94	11085	Below Cal		92
6) Chloroethane	2.71	64	7269	0.69	ug/l	96
7) Trichlorofluoromethane	3.01	101	15972	0.71	ug/l	94
8) Diethyl Ether	3.42	74	5140m	0.64	ug/l	
9) 1,1,2-Trichlorotrifluoroet	3.77	101	10284m	0.71	ug/l	
12) 1,1-Dichloroethene	3.73	96	8481	0.66	ug/l	87
14) Allyl chloride	4.33	41	13321	0.64	ug/l #	38
15) Acrylonitrile	5.00	53	13698	2.98	ug/l #	53
16) Acetone	3.83	43	14187	2.14	ug/l	98
17) Carbon Disulfide	4.05	76	26674	0.39	ug/l	98
18) Methyl Acetate	4.34	43	17924	0.84	ug/l	96
19) Methyl tert-butyl Ether	5.05	73	19488m	0.55	ug/l	
21) trans-1,2-Dichloroethene	5.05	96	8391	0.60	ug/l	95
22) Diisopropyl ether	5.96	45	24384	0.57	ug/l #	87
23) Vinyl Acetate	5.91	43	74358	2.60	ug/l	95
24) 1,1-Dichloroethane	5.85	63	16384	0.61	ug/l	97
25) 2-Butanone	6.84	43	16253	3.04	ug/l	90
26) 2,2-Dichloropropane	6.83	77	15955	0.72	ug/l	96
27) cis-1,2-Dichloroethene	6.83	96	9613	0.60	ug/l	94
29) Tetrahydrofuran	7.22	42	9894	2.95	ug/l #	79
30) Chloroform	7.37	83	18627	0.67	ug/l	87
31) Cyclohexane	7.66	56	30545	1.18	ug/l #	3
32) 1,1,1-Trichloroethane	7.57	97	15466	0.66	ug/l #	50
36) 1,1-Dichloropropene	7.79	75	13376	0.63	ug/l	94
37) Ethyl Acetate	6.94	43	4727	0.37	ug/l #	93
38) Carbon Tetrachloride	7.77	117	15131	0.68	ug/l	92
39) Methylcyclohexane	9.08	83	12646	0.56	ug/l	88
40) Benzene	8.04	78	37945	0.60	ug/l	91
41) Methacrylonitrile	7.18	41	2359	0.33	ug/l #	79
42) 1,2-Dichloroethane	8.13	62	13011	0.62	ug/l	92
43) Isopropyl Acetate	8.17	43	12178	0.54	ug/l	97
44) Trichloroethene	8.83	130	10775	0.63	ug/l	92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,2-Dichloropropane	9.12	63	9530	0.56	ug/l	98
46) Dibromomethane	9.21	93	5979	0.59	ug/l	99
47) Bromodichloromethane	9.41	83	14292	0.64	ug/l	98
48) Methyl methacrylate	9.20	41	5089	0.45	ug/l #	84
49) 1,4-Dioxane	9.20	88	1514	10.19	ug/l #	74
51) 4-Methyl-2-Pentanone	9.99	43	29666	2.41	ug/l	96
52) Toluene	10.16	92	22992	0.60	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	11154	0.52	ug/l #	75
54) cis-1,3-Dichloropropene	9.84	75	12592	0.51	ug/l #	90
56) Ethyl methacrylate	10.43	69	8740	0.51	ug/l	95
57) 1,3-Dichloropropane	10.71	76	13730	0.56	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	16620	2.01	ug/l	100
59) 2-Hexanone	10.76	43	19130	2.34	ug/l	91
60) Dibromochloromethane	10.90	129	10265	0.61	ug/l	89
61) 1,2-Dibromoethane	11.01	107	7959	0.57	ug/l	95
64) Tetrachloroethene	10.63	164	8879	0.61	ug/l	91
65) Chlorobenzene	11.44	112	24834	0.60	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.51	131	8989	0.57	ug/l #	59
67) Ethyl Benzene	11.51	91	35948	0.53	ug/l	99
68) m/p-Xylenes	11.62	106	25934	1.01	ug/l	94
69) o-Xylene	11.95	106	10870	0.44	ug/l	87
70) Styrene	11.97	104	16779	0.43	ug/l	96
71) Bromoform	12.13	173	5802	0.55	ug/l #	91
73) Isopropylbenzene	12.25	105	29346	0.56	ug/l	94
74) N-amyl acetate	12.07	43	6919	0.51	ug/l #	96
75) 1,1,2,2-Tetrachloroethane	12.51	83	10319	Below Cal		99
76) 1,2,3-Trichloropropane	12.55	75	7107m	0.63	ug/l	
77) Bromobenzene	12.53	156	10567	0.76	ug/l	88
78) n-propylbenzene	12.59	91	36421	0.61	ug/l	97
79) 2-Chlorotoluene	12.68	91	23657	0.65	ug/l	97
80) 1,3,5-Trimethylbenzene	12.73	105	24128	0.58	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.30	75	1753m	0.50	ug/l	
82) 4-Chlorotoluene	12.77	91	21519	0.60	ug/l	98
83) tert-Butylbenzene	12.99	119	21109	0.57	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	21560	0.51	ug/l	99
85) sec-Butylbenzene	13.17	105	27012	0.55	ug/l	98
86) p-Isopropyltoluene	13.29	119	20007	0.48	ug/l	97
87) 1,3-Dichlorobenzene	13.29	146	13936	0.58	ug/l	95
88) 1,4-Dichlorobenzene	13.36	146	14455m	0.62	ug/l	
89) n-Butylbenzene	13.62	91	15375	0.45	ug/l	95
90) Hexachloroethane	13.88	117	5769	Below Cal		95
91) 1,2-Dichlorobenzene	13.66	146	15254	0.65	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.28	75	1775	0.47	ug/l	69
93) 1,2,4-Trichlorobenzene	14.91	180	5112	3.26	ug/l	99
94) Hexachlorobutadiene	15.01	225	5796	Below Cal		91
95) Naphthalene	15.13	128	9534	4.34	ug/l	95
96) 1,2,3-Trichlorobenzene	15.32	180	5996	0.52	ug/l	92

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

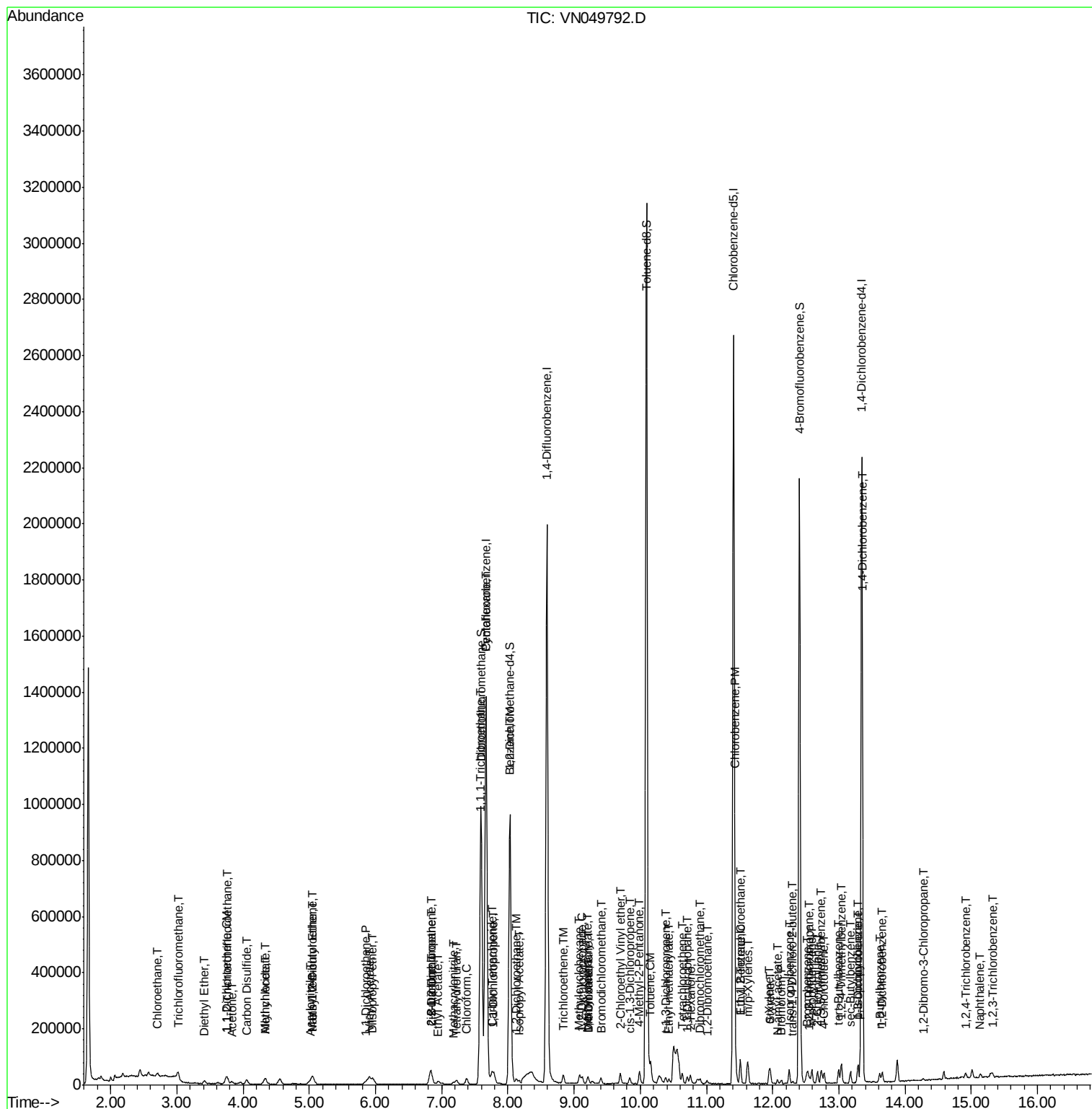
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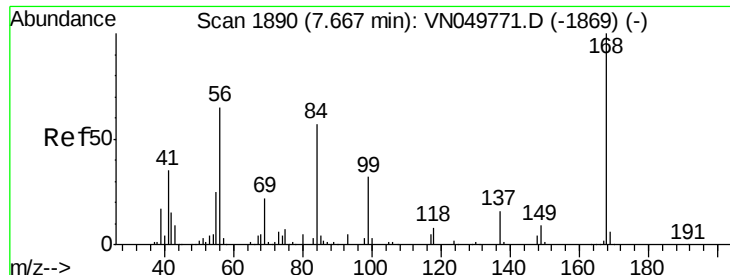
Instrument :
MSVOA_N
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LOD-MDL-WATER-01-QT3-2018

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:168 Resp: 1179500

Ion Ratio Lower Upper

168 100

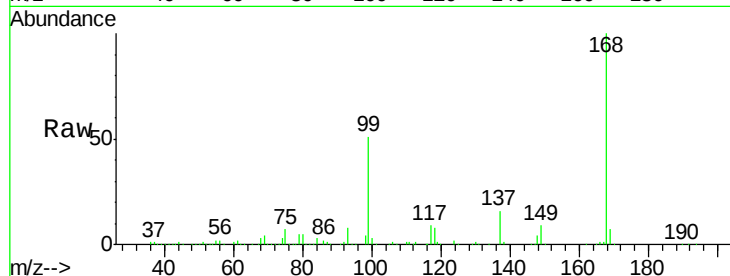
99 50.4 40.6 61.0

Manual Integrations

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7/16/2018 11:25:25 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

500000

400000

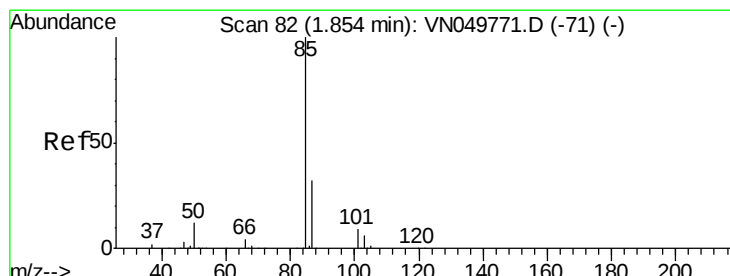
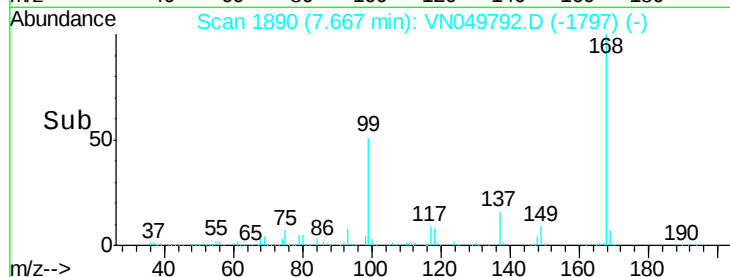
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.85 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN049792.D

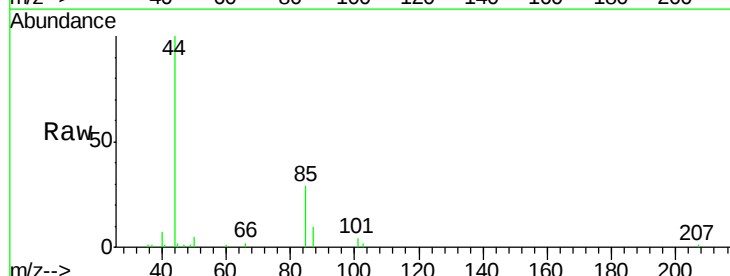
Acq: 13 Jul 2018 13:06

Tgt Ion: 85 Resp: 7652

Ion Ratio Lower Upper

85 100

87 35.0 15.4 46.1



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0

1.85

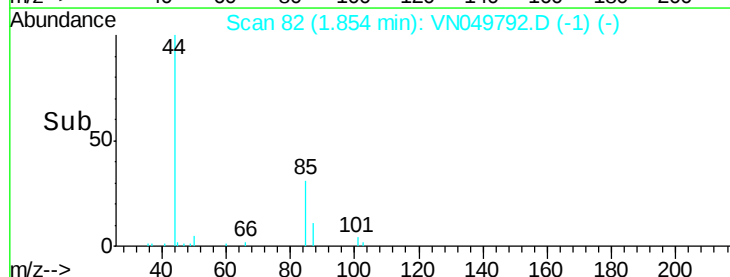
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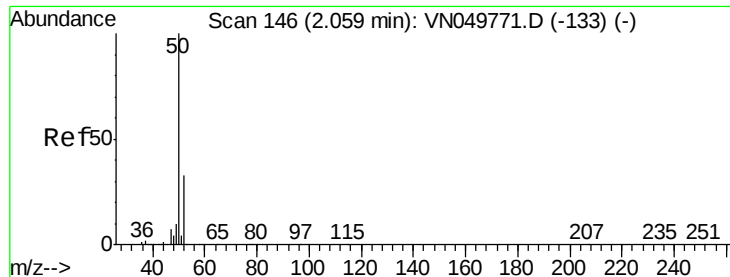
4000

2000

0

Time-->





#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion: 50 Resp: 11332

Ion Ratio Lower Upper

50 100

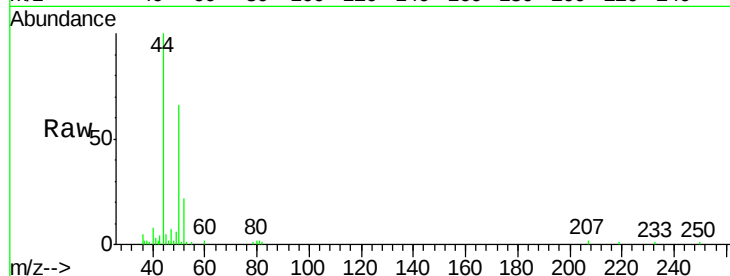
52 32.4 26.1 39.1

Manual Integrations

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7/16/2018 11:25:25 AM



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.06

10000

8000

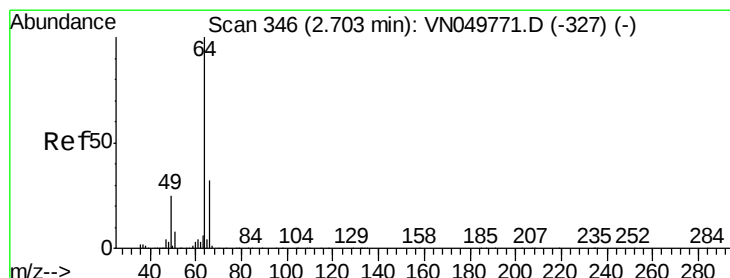
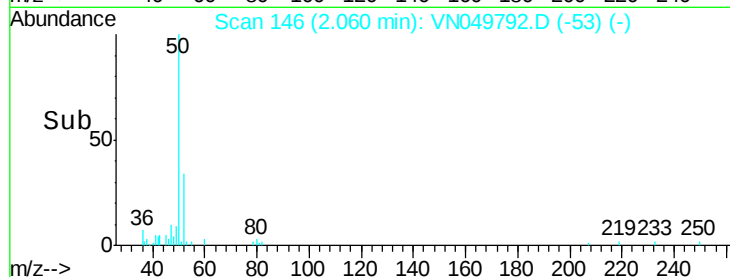
6000

4000

2000

0

Time-->



#6

Chloroethane

Concen: 0.69 ug/l

RT: 2.71 min Scan# 347

Delta R.T. 0.00 min

Lab File: VN049792.D

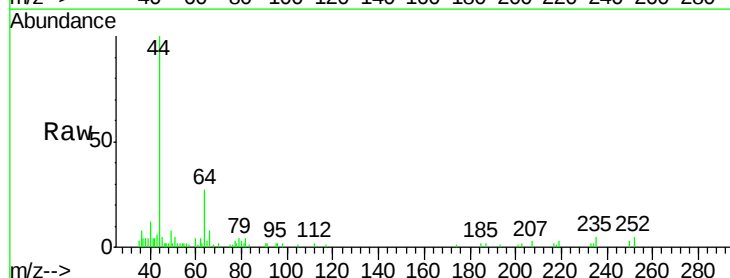
Acq: 13 Jul 2018 13:06

Tgt Ion: 64 Resp: 7269

Ion Ratio Lower Upper

64 100

66 30.0 25.6 38.4



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.71

4000

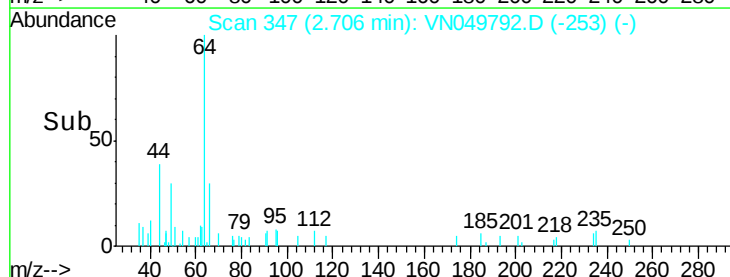
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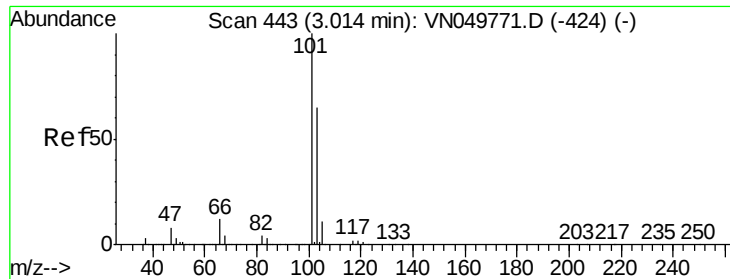
2000

1000

0

Time-->





#7

Trichlorofluoromethane

Concen: 0.71 ug/l

RT: 3.01 min Scan# 443

Delta R.T. 0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:101 Resp: 15972

Ion Ratio Lower Upper

101 100

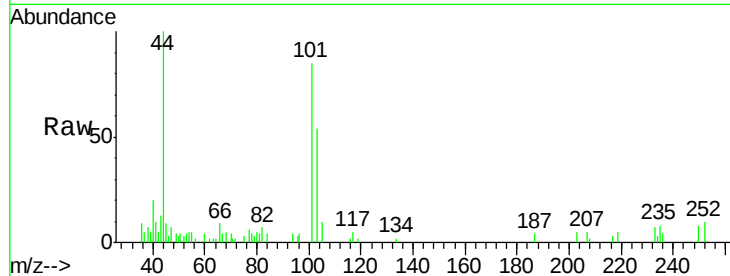
103 61.3 52.8 79.2

Manual Integrations

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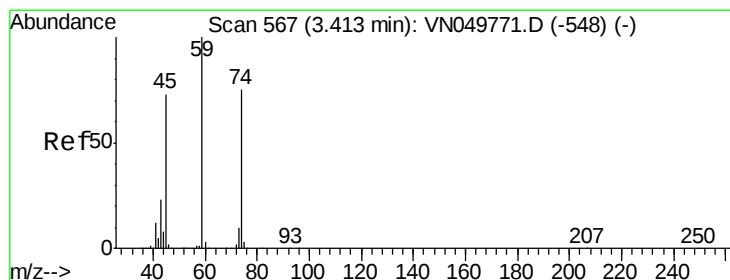
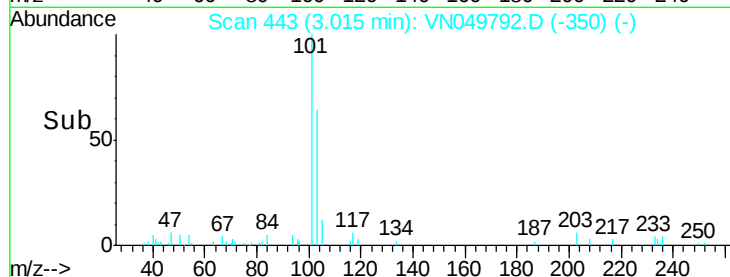
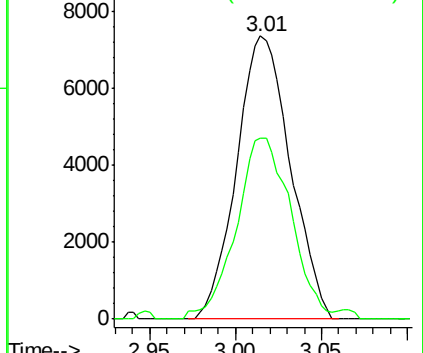
MMDadoda

7/16/2018 11:25:25 AM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 0.64 ug/l m

RT: 3.42 min Scan# 570

Delta R.T. 0.01 min

Lab File: VN049792.D

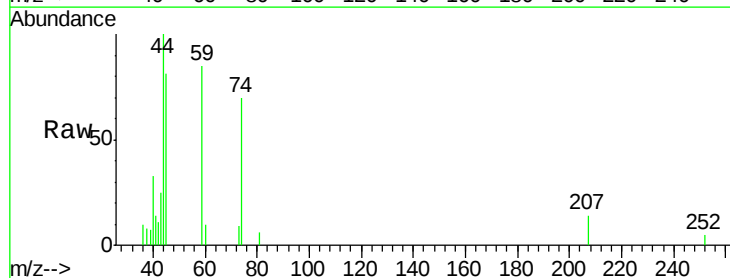
Acq: 13 Jul 2018 13:06

Tgt Ion: 74 Resp: 5140

Ion Ratio Lower Upper

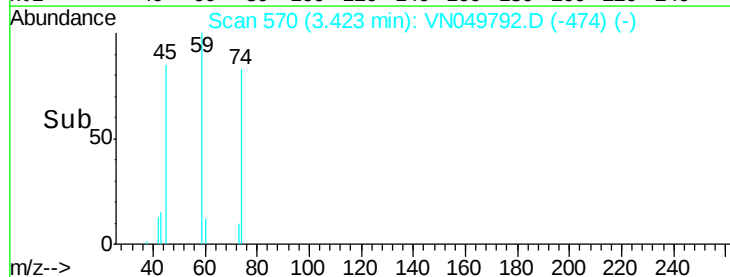
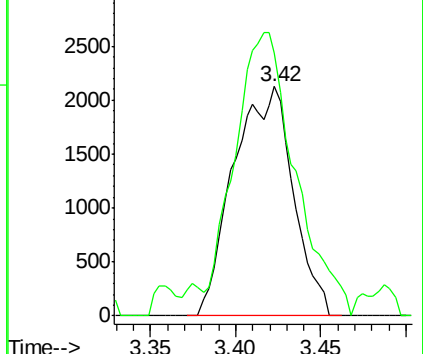
74 100

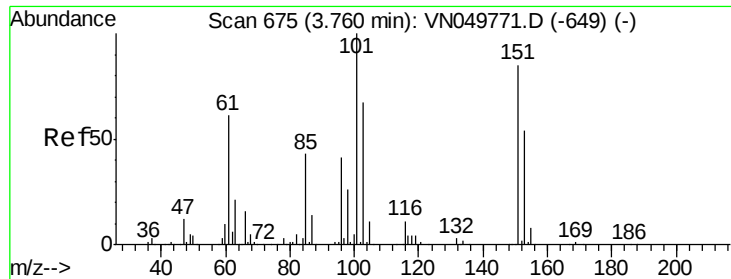
45 126.2 48.4 145.2



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.71 ug/l m

RT: 3.77 min Scan# 678

Delta R.T. 0.01 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Instrument :

MSVOA_N

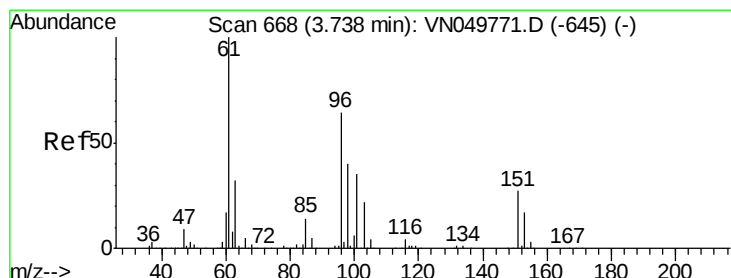
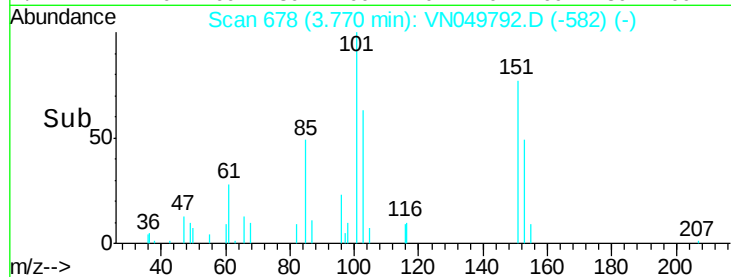
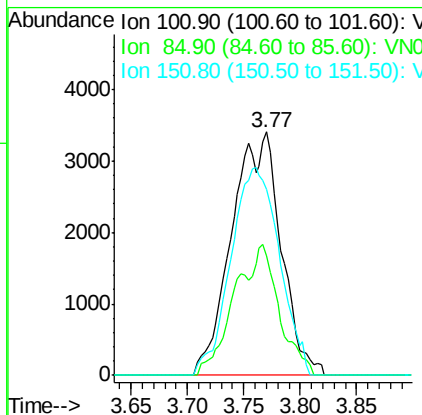
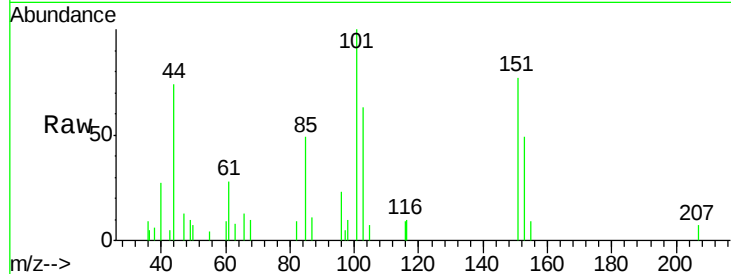
ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:	101	Resp:	10284
Ion Ratio	Lower	Upper	
101	100		
85	26.5	34.4	51.6#
151	84.8	66.2	99.4

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#12

1,1-Dichloroethene

Concen: 0.66 ug/l

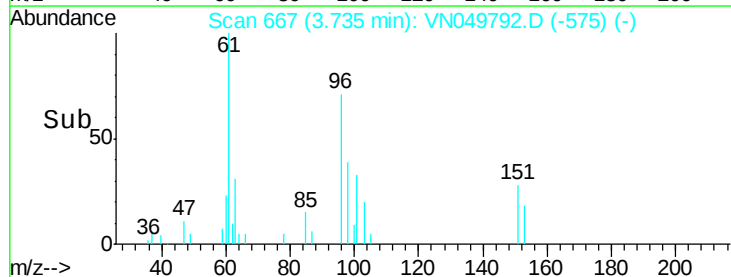
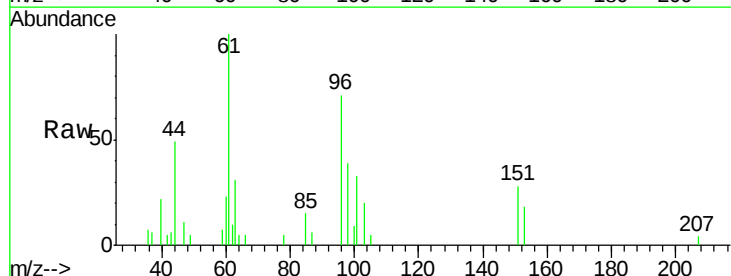
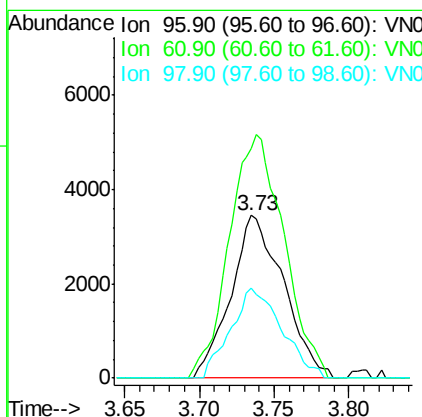
RT: 3.73 min Scan# 667

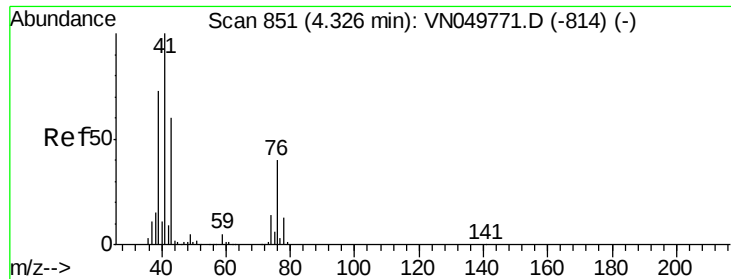
Delta R.T. -0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Tgt Ion:	96	Resp:	8481
Ion Ratio	Lower	Upper	
96	100		
61	140.6	126.5	189.7
98	54.9	51.0	76.6





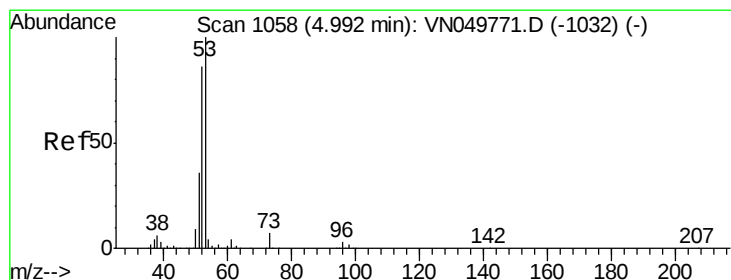
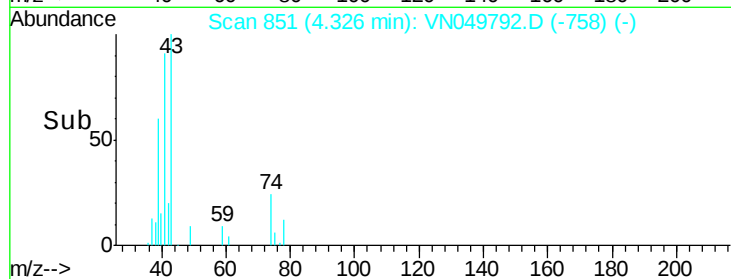
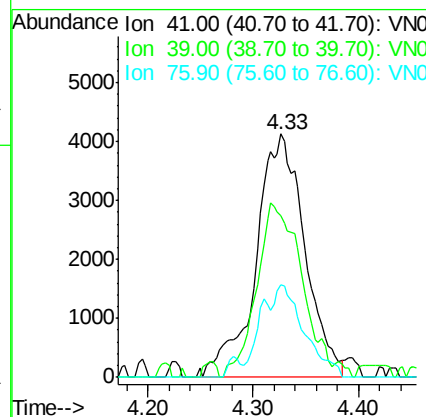
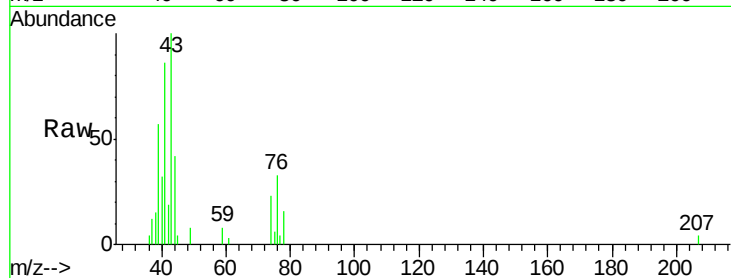
#14
Allvl chloride
Concen: 0.64 ug/l
RT: 4.33 min Scan# 851
Delta R.T. 0.00 min
Lab File: VN049792.D
Acq: 13 Jul 2018 13:06

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
41	100		
39	0.0	53.2	79.8#
76	23.3	29.0	43.6#

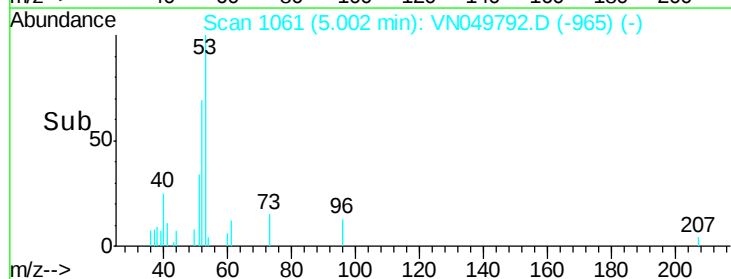
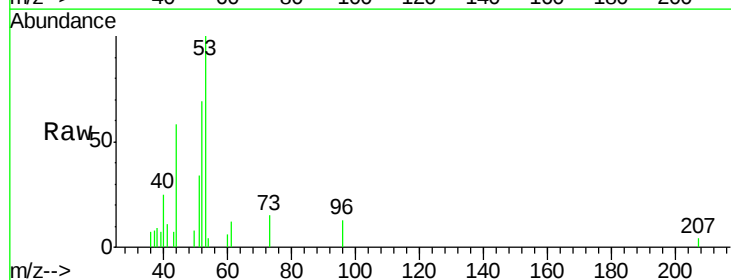
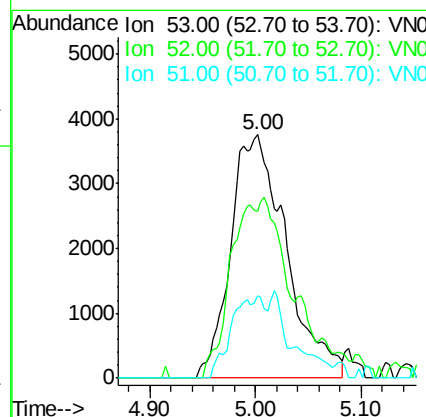
Manual Integrations
APPROVED

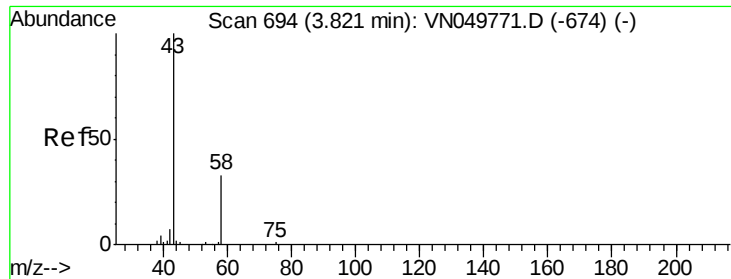
MMDadoda
7/16/2018 11:25:25 AM



#15
Acrylonitrile
Concen: 2.98 ug/l
RT: 5.00 min Scan# 1061
Delta R.T. 0.01 min
Lab File: VN049792.D
Acq: 13 Jul 2018 13:06

Tgt Ion	Ratio	Lower	Upper
53	100		
52	36.3	64.8	97.2#
51	12.6	28.9	43.3#





#16

Acetone

Concen: 2.14 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion: 43 Resp: 14187

Ion Ratio Lower Upper

43 100

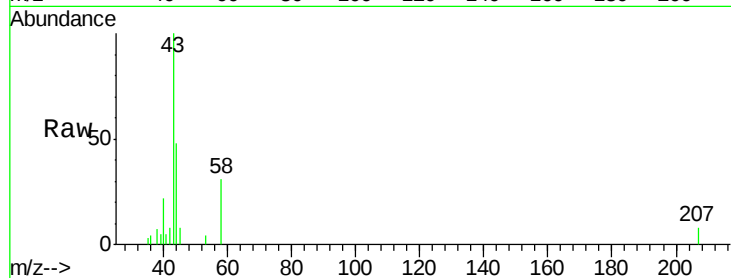
58 31.1 25.9 38.9

Manual Integrations

APPROVED

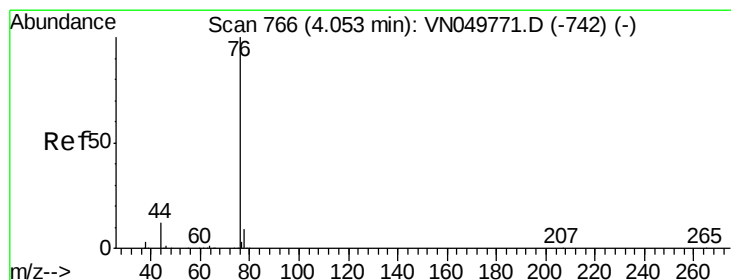
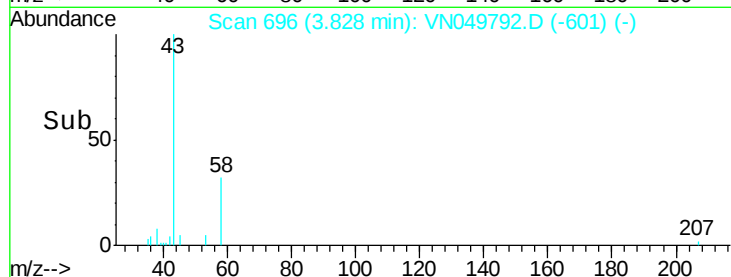
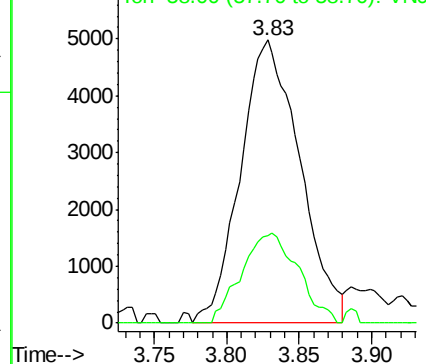
MMDadoda

7/16/2018 11:25:25 AM



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO



#17

Carbon Disulfide

Concen: 0.39 ug/l

RT: 4.05 min Scan# 765

Delta R.T. -0.00 min

Lab File: VN049792.D

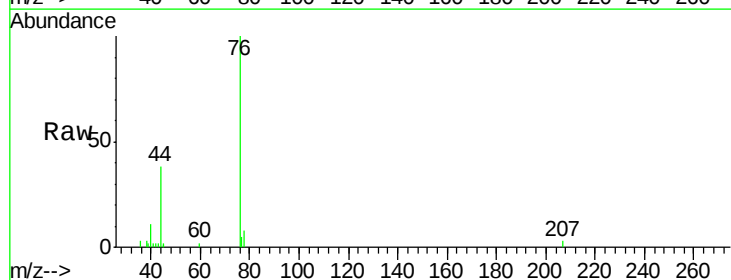
Acq: 13 Jul 2018 13:06

Tgt Ion: 76 Resp: 26674

Ion Ratio Lower Upper

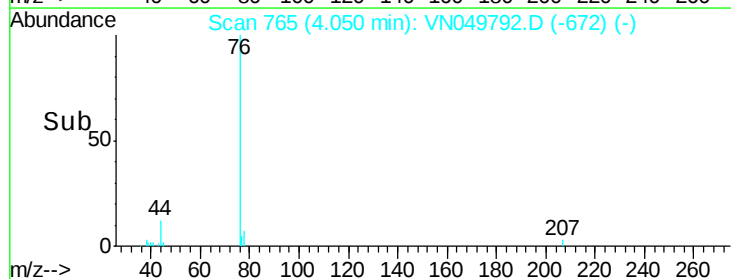
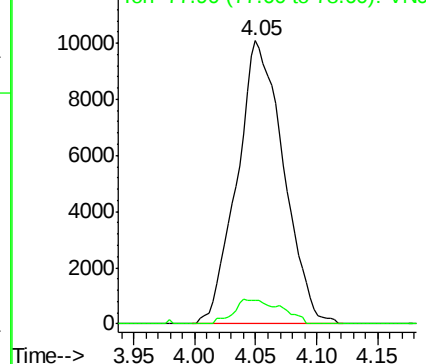
76 100

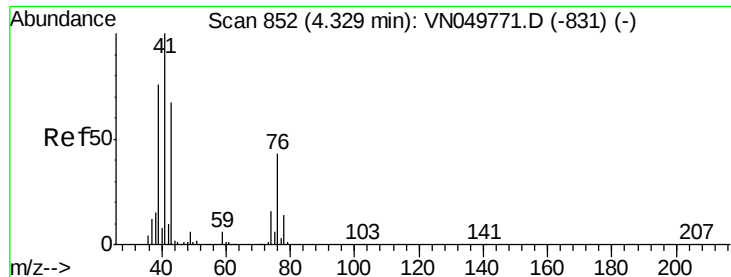
78 8.3 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO





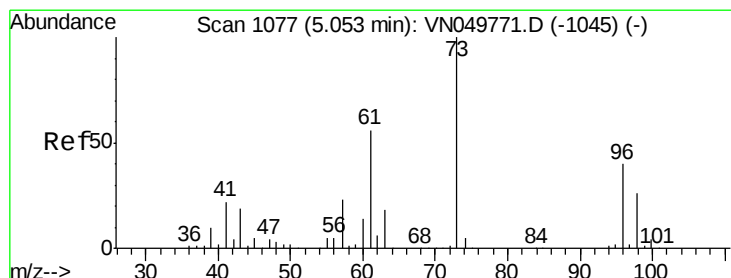
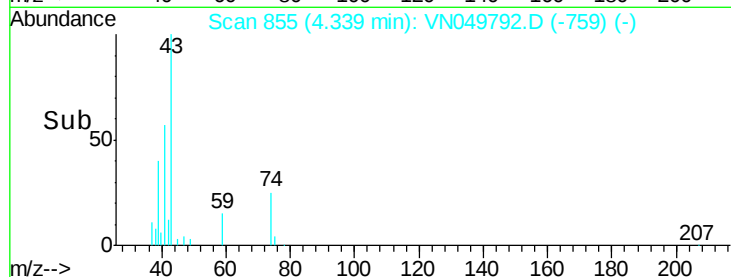
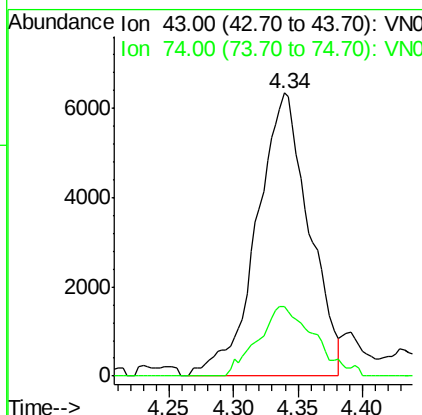
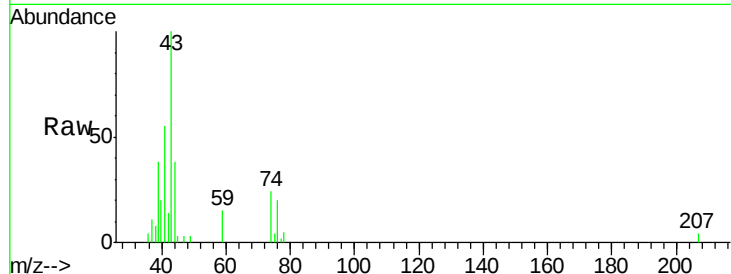
#18
Methyl Acetate
Concen: 0.84 ug/l
RT: 4.34 min Scan# 855
Delta R.T. 0.01 min
Lab File: VN049792.D
Acq: 13 Jul 2018 13:06

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2018

Tot Ion: 43 Resp: 17924
Ion Ratio Lower Upper
43 100
74 26.6 19.8 29.8

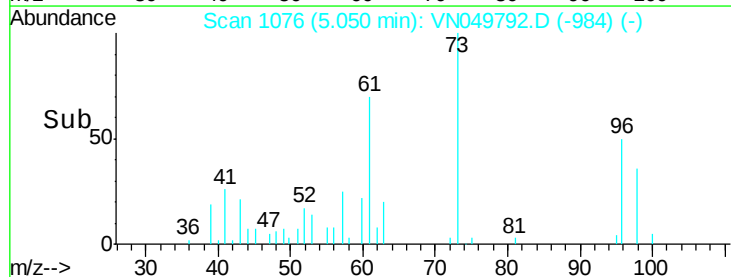
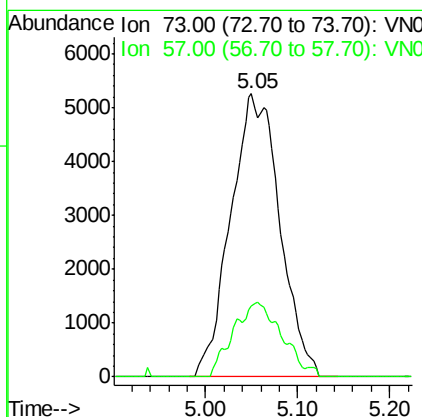
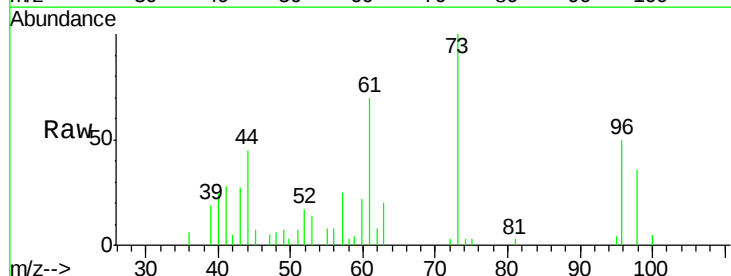
Manual Integrations
APPROVED

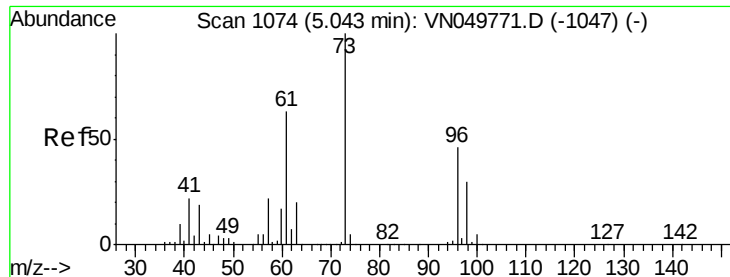
MMDadoda
7/16/2018 11:25:25 AM



#19
Methyl tert-butyl Ether
Concen: 0.55 ug/l m
RT: 5.05 min Scan# 1076
Delta R.T. -0.00 min
Lab File: VN049792.D
Acq: 13 Jul 2018 13:06

Tgt Ion: 73 Resp: 19488
Ion Ratio Lower Upper
73 100
57 25.0 18.1 27.1





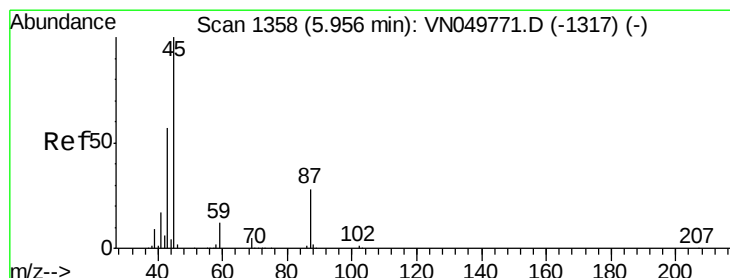
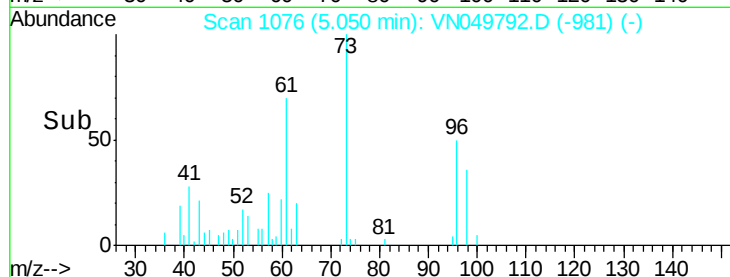
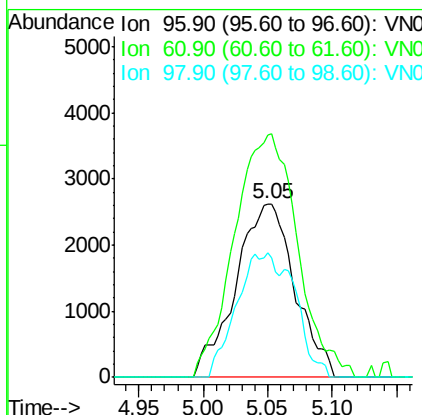
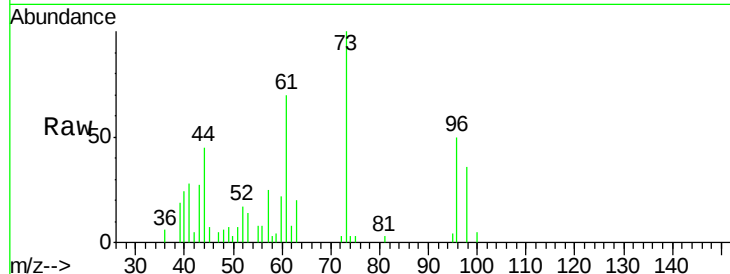
#21
trans-1,2-Dichloroethene
Concen: 0.60 ug/l
RT: 5.05 min Scan# 1076
Delta R.T. 0.01 min
Lab File: VN049792.D
Acq: 13 Jul 2018 13:06

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
96	100		
61	140.0	109.0	163.6
98	72.1	51.1	76.7

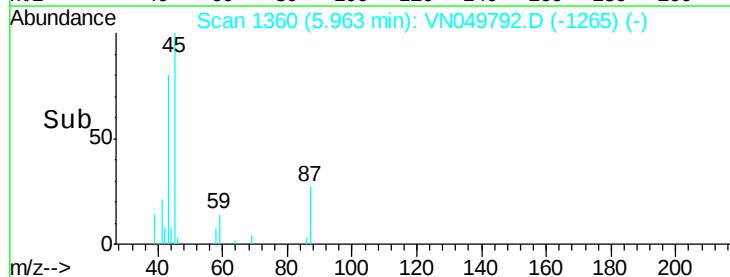
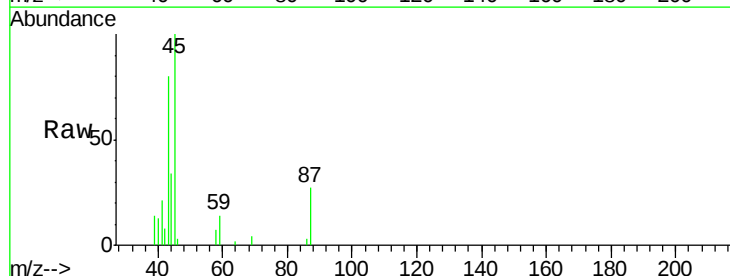
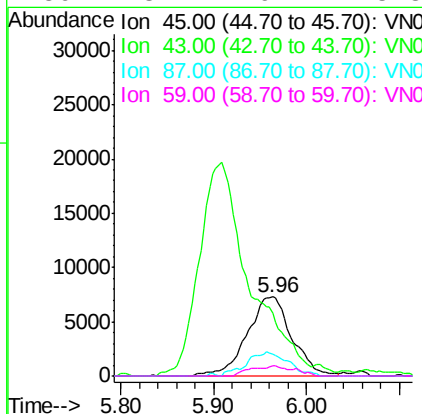
Manual Integrations
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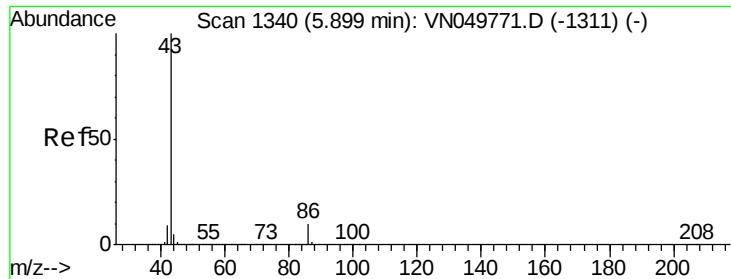
MMDadoda
7/16/2018 11:25:25 AM



#22
Diisopropyl ether
Concen: 0.57 ug/l
RT: 5.96 min Scan# 1360
Delta R.T. 0.01 min
Lab File: VN049792.D
Acq: 13 Jul 2018 13:06

Tgt Ion	Ratio	Lower	Upper
45	100		
43	74.6	48.1	72.1#
87	26.9	22.6	34.0
59	13.7	9.2	13.8





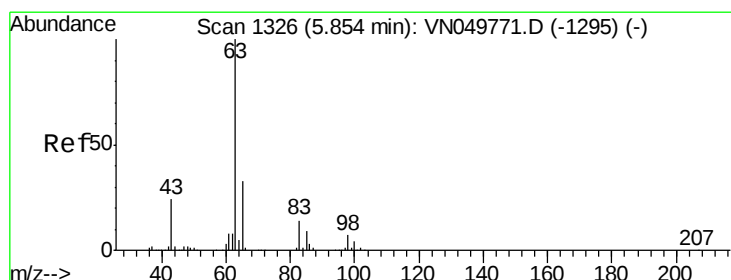
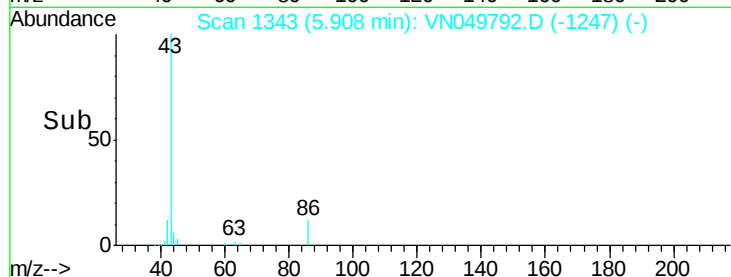
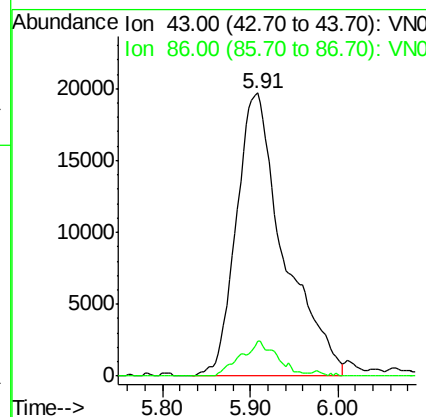
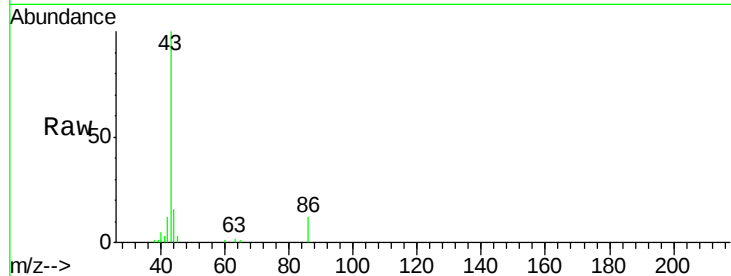
#23
 Vinyl Acetate
 Concen: 2.60 ug/l
 RT: 5.91 min Scan# 1343
 Delta R.T. 0.01 min
 Lab File: VN049792.D
 Acq: 13 Jul 2018 13:06

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

Tot Ion	Ratio	Resp	Lower	Upper
43	100	74358		
86	12.3		8.4	12.6

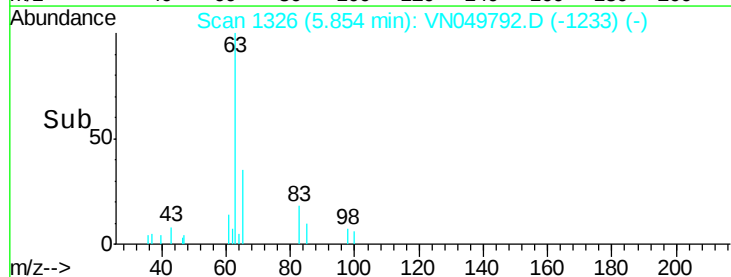
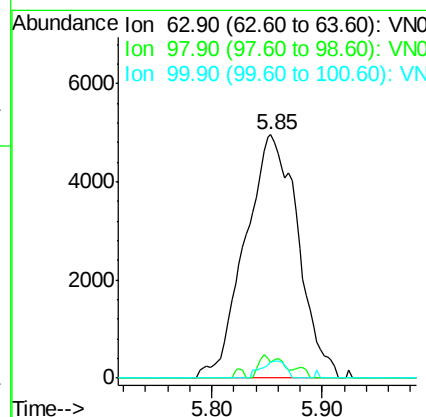
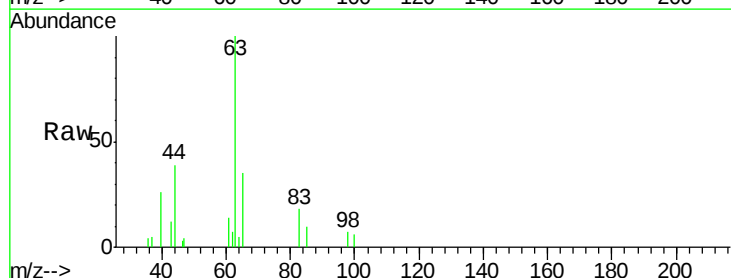
Manual Integrations
 APPROVED

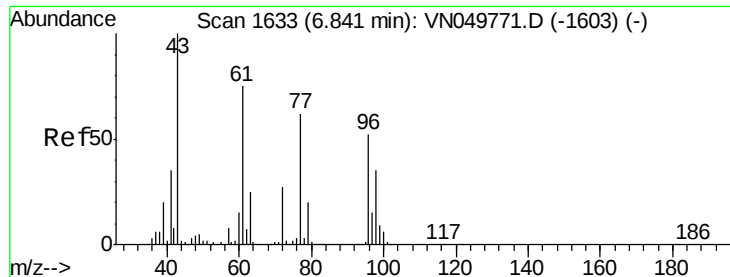
MMDadoda
 7/16/2018 11:25:25 AM



#24
 1,1-Dichloroethane
 Concen: 0.61 ug/l
 RT: 5.85 min Scan# 1326
 Delta R.T. 0.00 min
 Lab File: VN049792.D
 Acq: 13 Jul 2018 13:06

Tgt Ion	Ratio	Resp	Lower	Upper
63	100	16384		
98	6.7		3.4	10.2
100	6.4		2.2	6.6





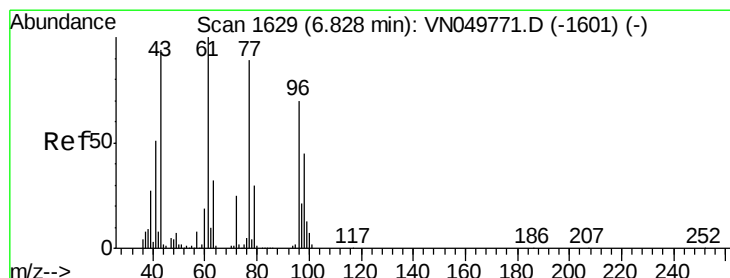
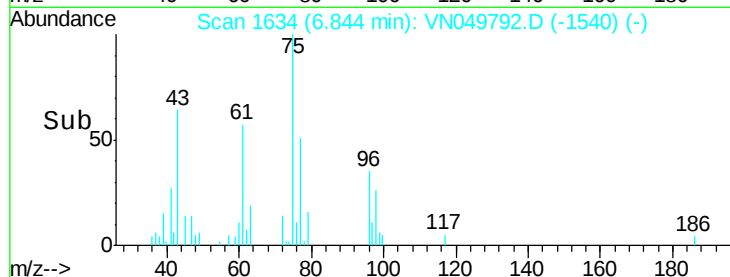
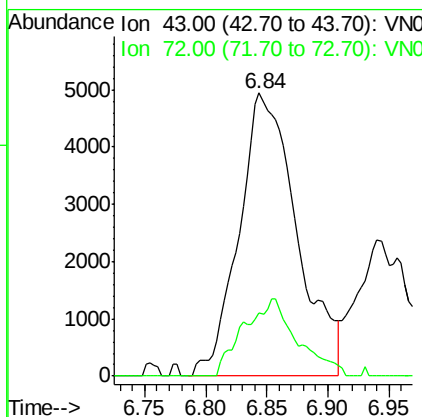
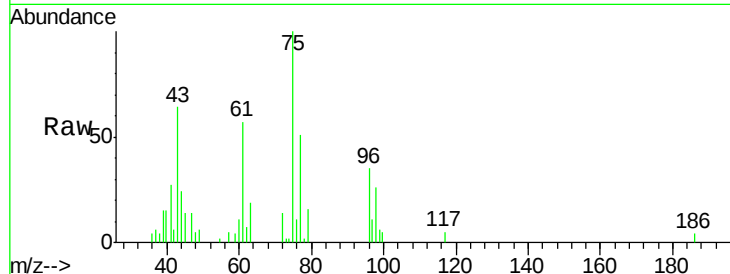
#25
2-Butanone
Concen: 3.04 ug/l
RT: 6.84 min Scan# 1634
Delta R.T. 0.00 min
Lab File: VN049792.D
Acq: 13 Jul 2018 13:06

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2018

Tot Ion: 43 Resp: 16253
Ion Ratio Lower Upper
43 100
72 22.4 22.1 33.1

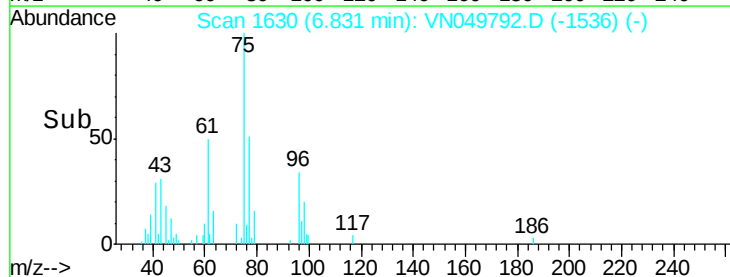
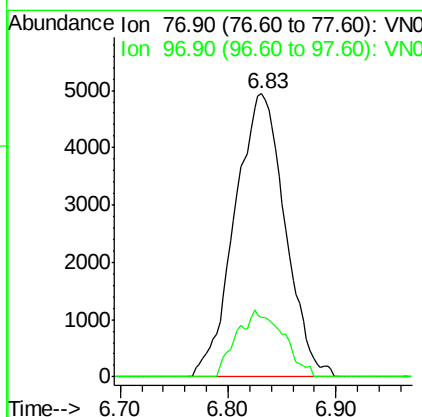
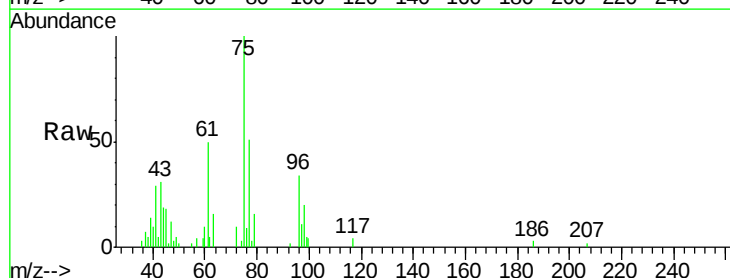
Manual Integrations
APPROVED

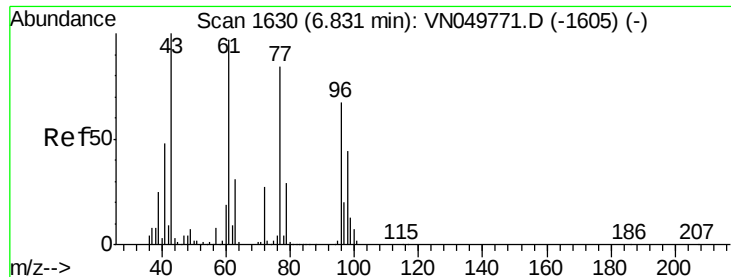
MMDadoda
7/16/2018 11:25:25 AM



#26
2,2-Dichloropropane
Concen: 0.72 ug/l
RT: 6.83 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VN049792.D
Acq: 13 Jul 2018 13:06

Tgt Ion: 77 Resp: 15955
Ion Ratio Lower Upper
77 100
97 21.7 11.9 35.5





#27

cis-1,2-Dichloroethene

Concen: 0.60 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Instrument :

MSVOA_N

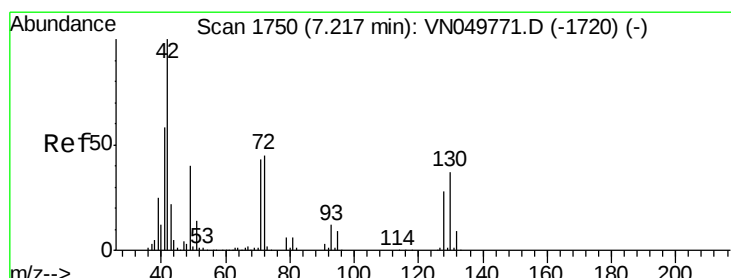
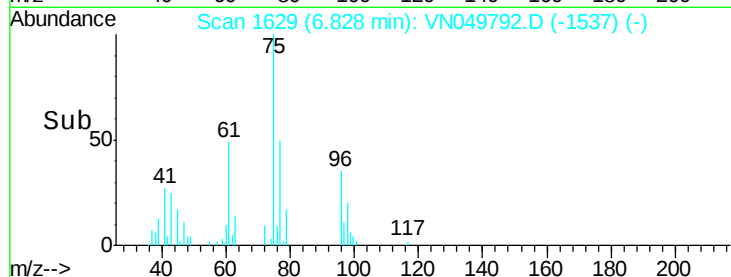
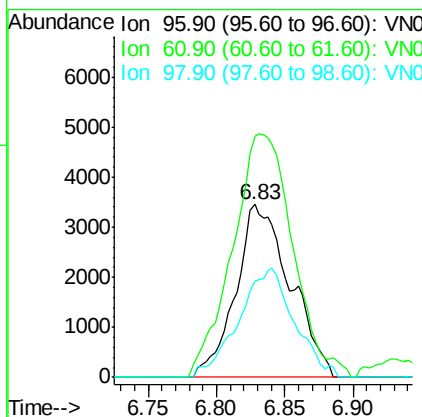
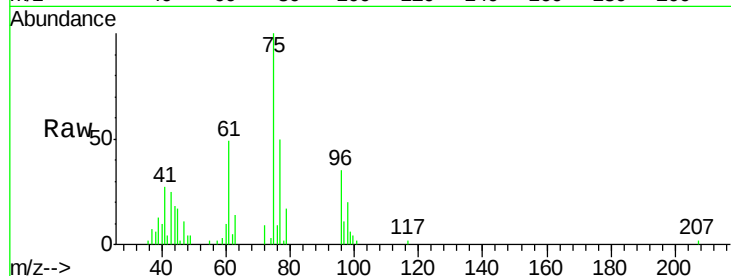
ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:	96	Resp:	9613
Ion	Ratio	Lower	Upper
96	100		
61	155.3	0.0	289.0
98	64.0	0.0	130.2

Manual Integrations
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7/16/2018 11:25:25 AM



#29

Tetrahydrofuran

Concen: 2.95 ug/l

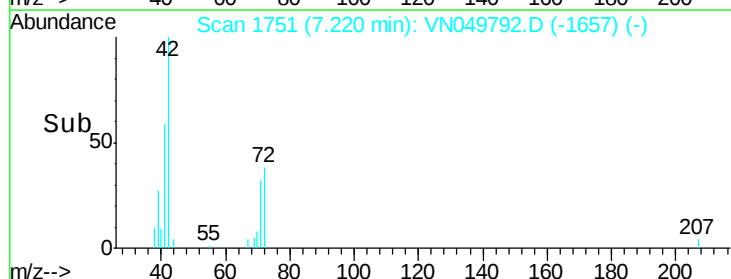
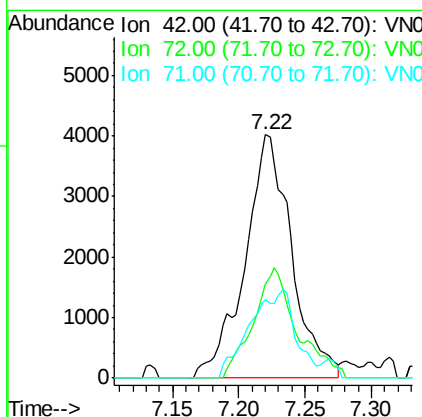
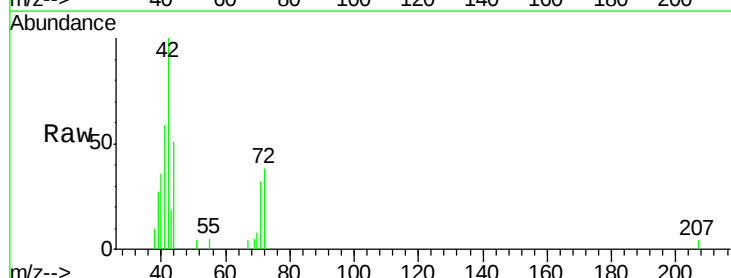
RT: 7.22 min Scan# 1751

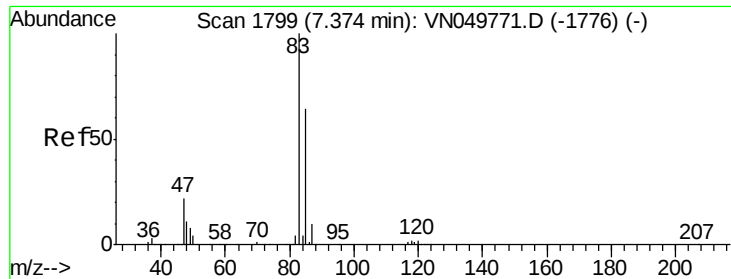
Delta R.T. 0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Tgt Ion:	42	Resp:	9894
Ion	Ratio	Lower	Upper
42	100		
72	42.2	35.6	53.4
71	17.9	34.0	51.0#





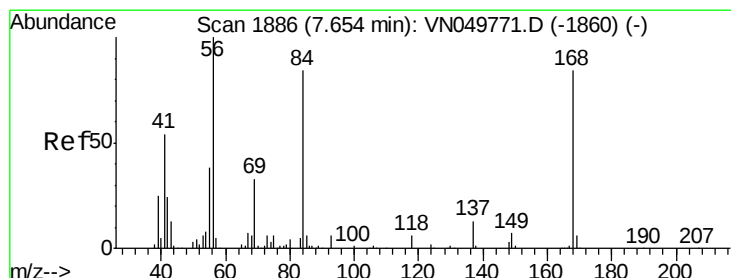
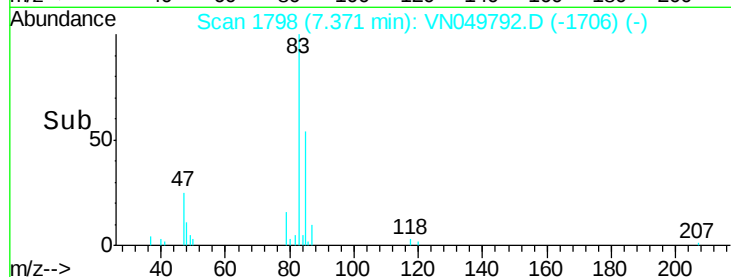
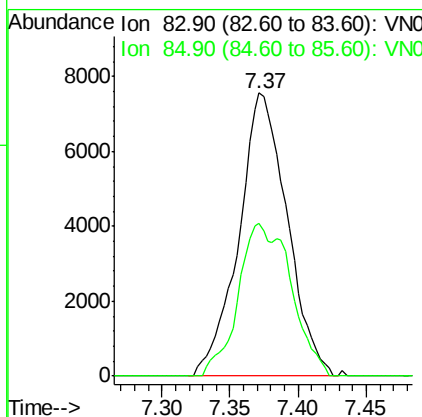
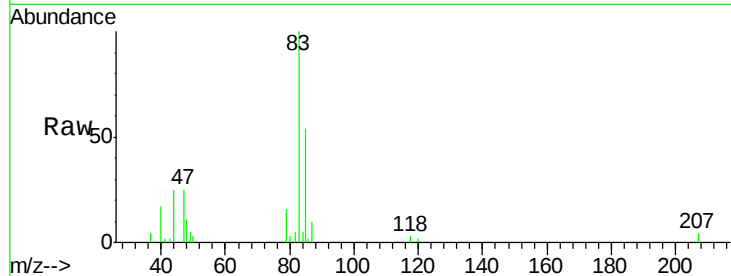
#30
Chloroform
Concen: 0.67 ug/l
RT: 7.37 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VN049792.D
Acq: 13 Jul 2018 13:06

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2018

Tot Ion: 83 Resp: 18627
Ion Ratio Lower Upper
83 100
85 54.0 51.4 77.2

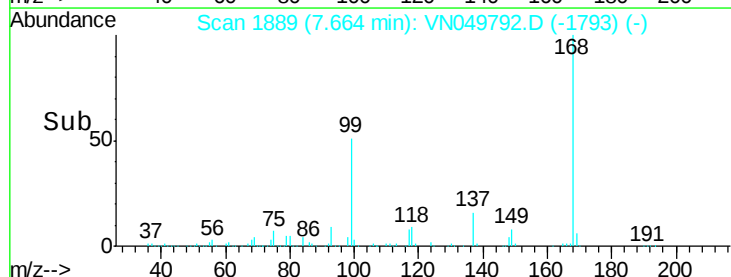
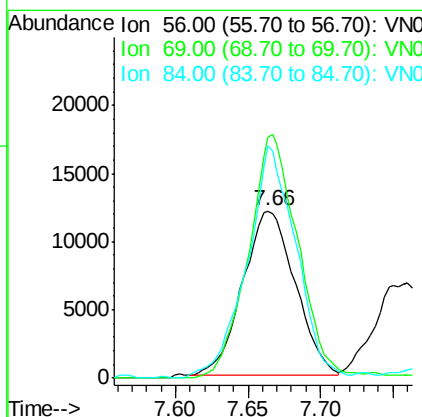
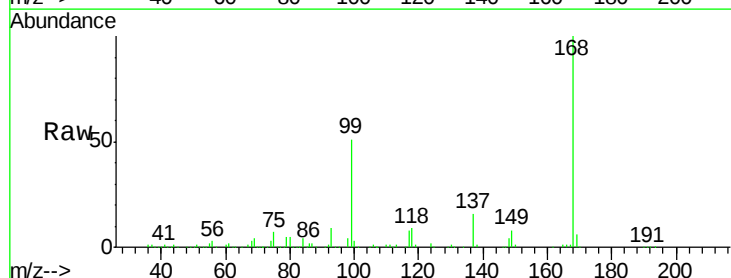
Manual Integrations
APPROVED

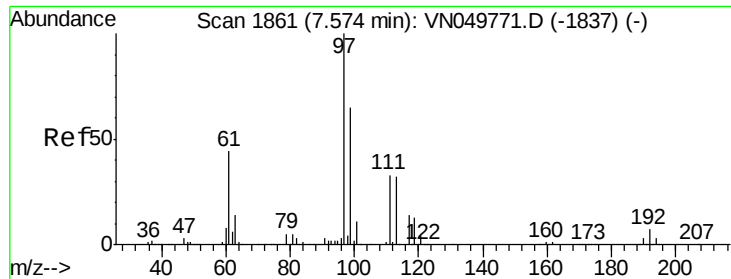
MMDadoda
7/16/2018 11:25:25 AM



#31
Cyclohexane
Concen: 1.18 ug/l
RT: 7.66 min Scan# 1889
Delta R.T. 0.01 min
Lab File: VN049792.D
Acq: 13 Jul 2018 13:06

Tgt Ion: 56 Resp: 30545
Ion Ratio Lower Upper
56 100
69 146.7 26.6 40.0#
84 139.0 69.0 103.6#





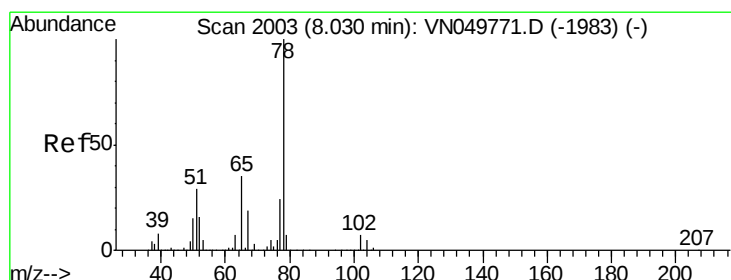
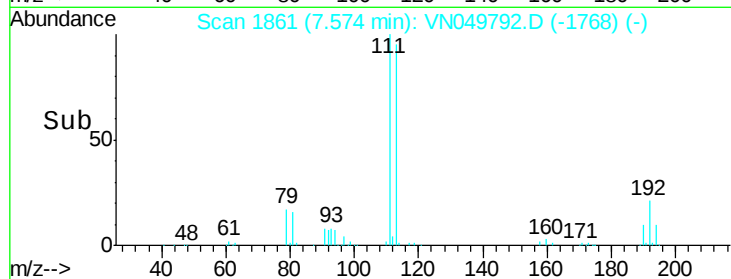
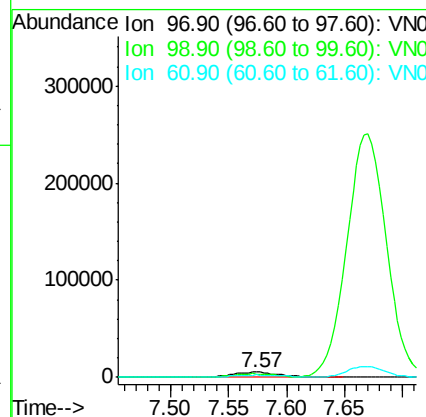
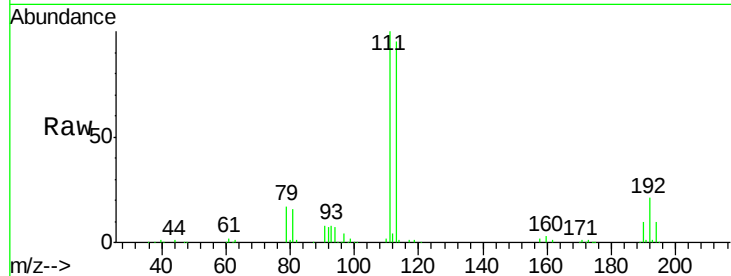
#32
 1,1,1-Trichloroethane
 Concen: 0.66 ug/l
 RT: 7.57 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VN049792.D
 Acq: 13 Jul 2018 13:06

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.0	76.4#
61	41.4	35.5	53.3

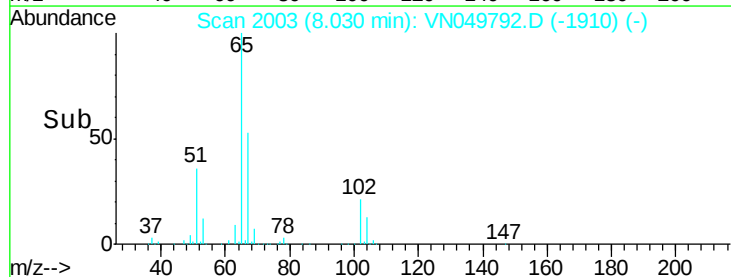
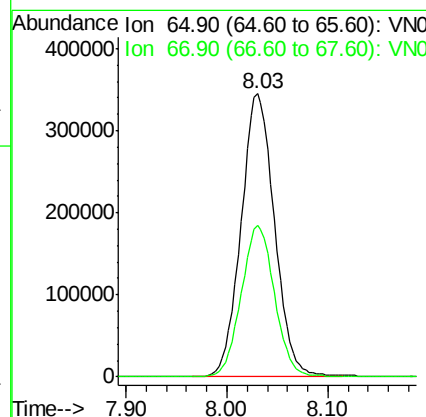
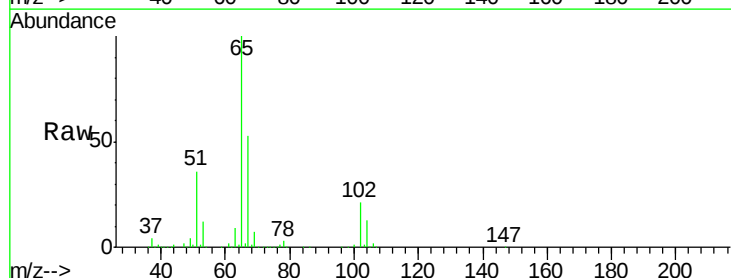
Manual Integrations
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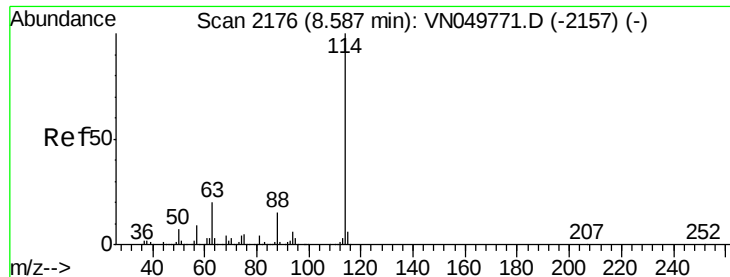
MMDadoda
 7/16/2018 11:25:25 AM



#33
 1,2-Dichloroethane-d4
 Concen: 57.90 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN049792.D
 Acq: 13 Jul 2018 13:06

Tgt Ion	Ratio	Lower	Upper
65	100		
67	53.3	0.0	107.2





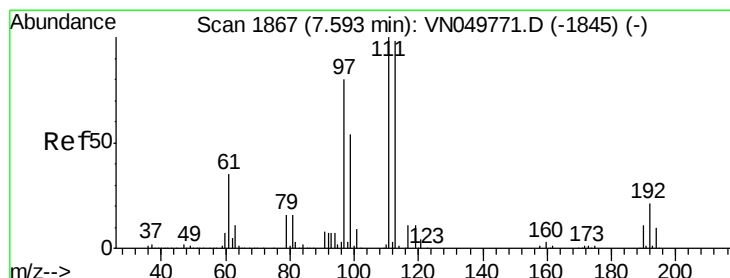
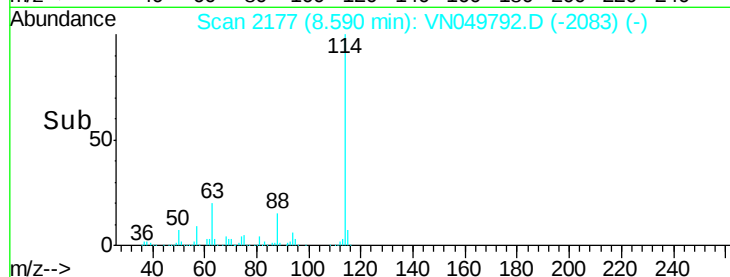
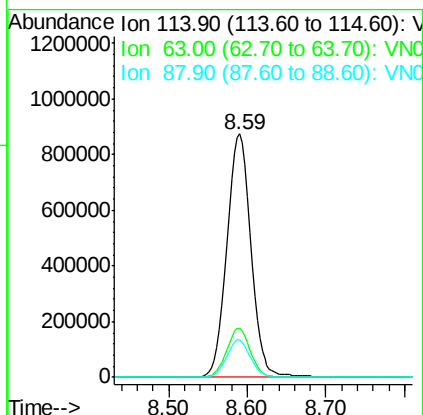
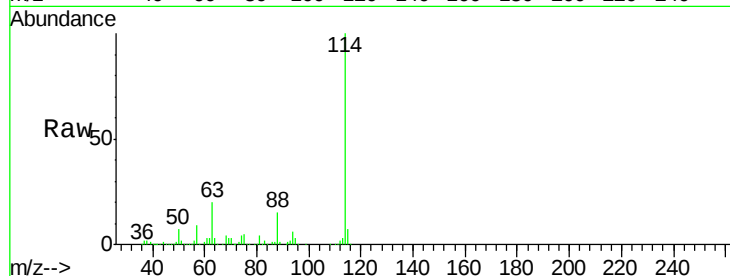
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN049792.D
 Acq: 13 Jul 2018 13:06

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	39.8
88	15.3	0.0	30.6

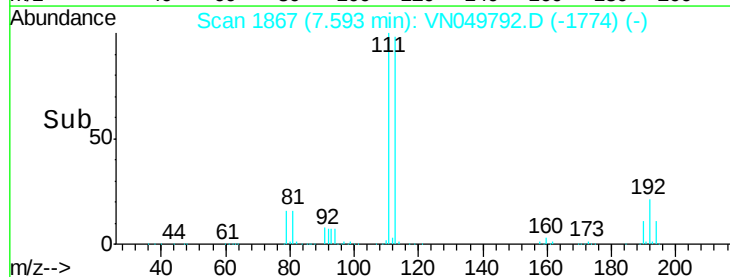
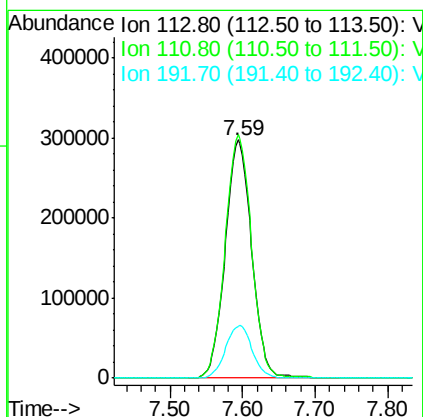
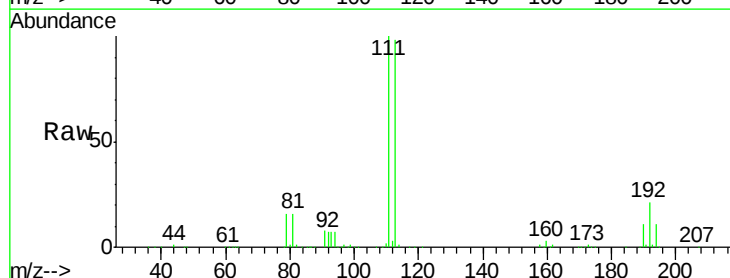
Manual Integrations
 APPROVED

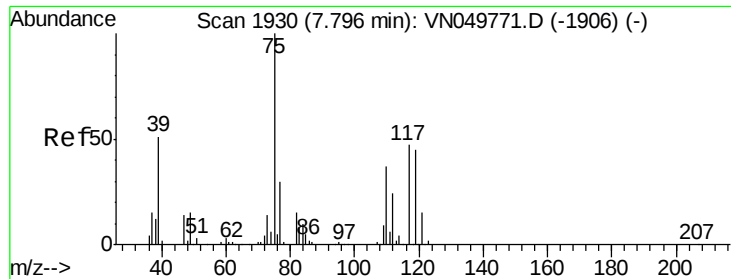
MMDadoda
 7/16/2018 11:25:25 AM



#35
 Dibromofluoromethane
 Concen: 54.12 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049792.D
 Acq: 13 Jul 2018 13:06

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.8	122.8
192	22.3	17.8	26.6





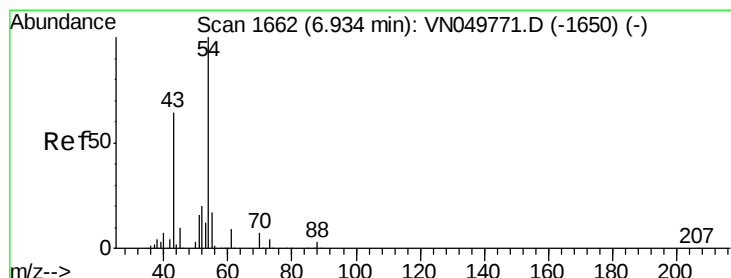
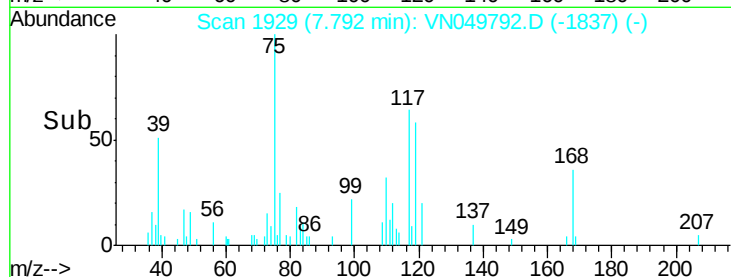
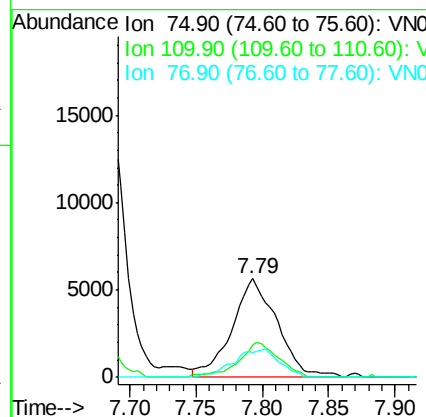
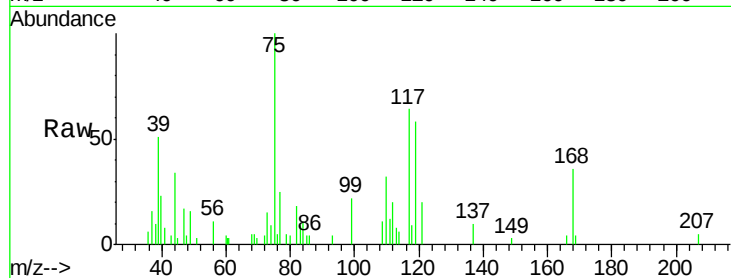
#36
 1,1-Dichloropropene
 Concen: 0.63 ug/l
 RT: 7.79 min Scan# 1929
 Delta R.T. -0.00 min
 Lab File: VN049792.D
 Acq: 13 Jul 2018 13:06

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
75	100		
110	31.6	18.1	54.4
77	29.1	24.9	37.3

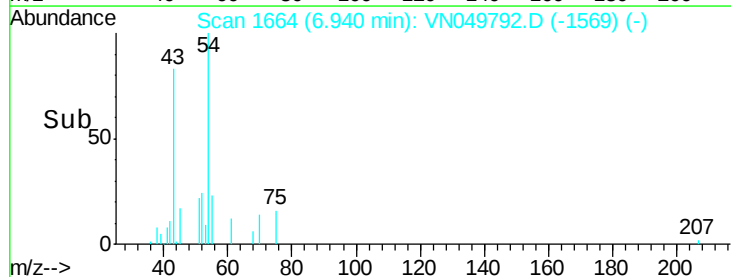
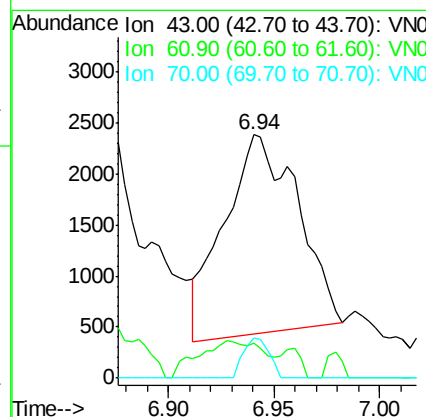
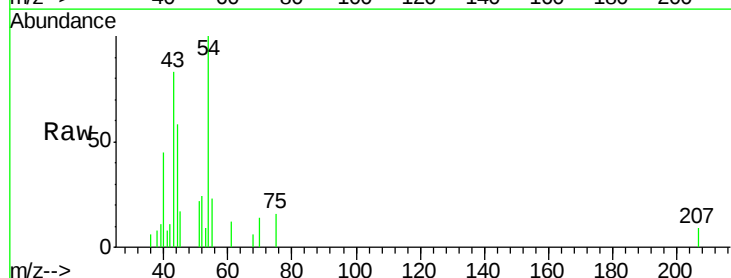
Manual Integrations
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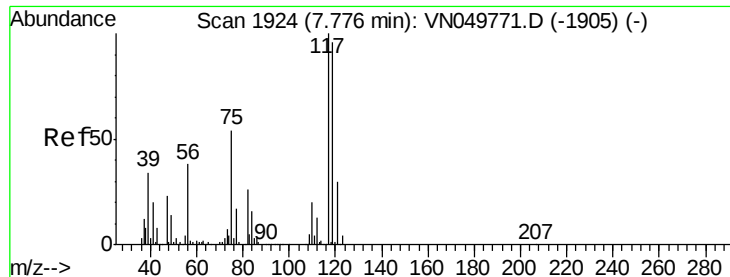
MMDadoda
 7/16/2018 11:25:25 AM



#37
 Ethyl Acetate
 Concen: 0.37 ug/l
 RT: 6.94 min Scan# 1664
 Delta R.T. 0.01 min
 Lab File: VN049792.D
 Acq: 13 Jul 2018 13:06

Tgt Ion	Ratio	Lower	Upper
43	100		
61	16.5	11.7	17.5
70	7.0	8.4	12.6





#38

Carbon Tetrachloride

Concen: 0.68 ug/l

RT: 7.77 min Scan# 1923

Delta R.T. -0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Instrument :

MSVOA_N

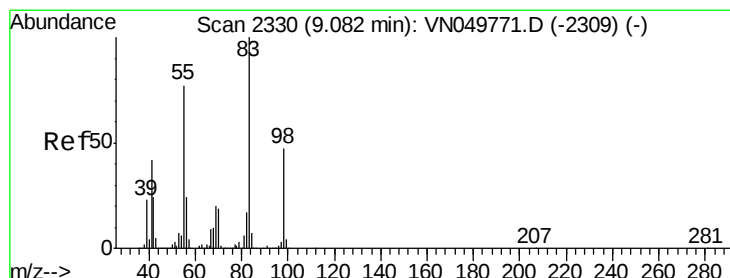
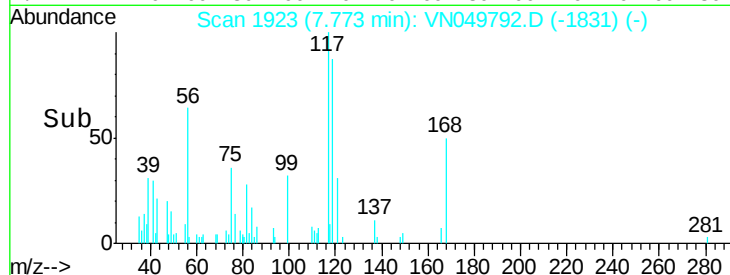
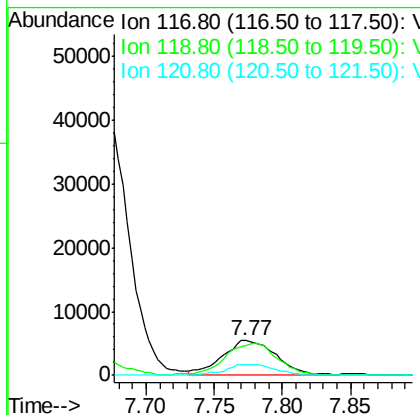
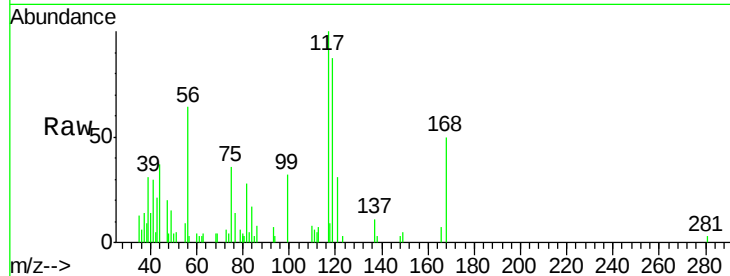
ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:	117	Resp:	15131
Ion Ratio	Lower	Upper	
117	100		
119	87.1	77.2	115.8
121	30.6	25.0	37.6

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#39

Methylcyclohexane

Concen: 0.56 ug/l

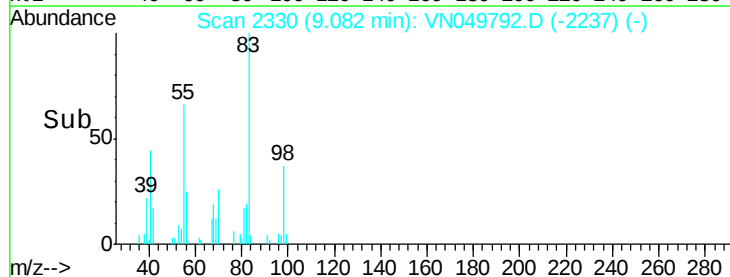
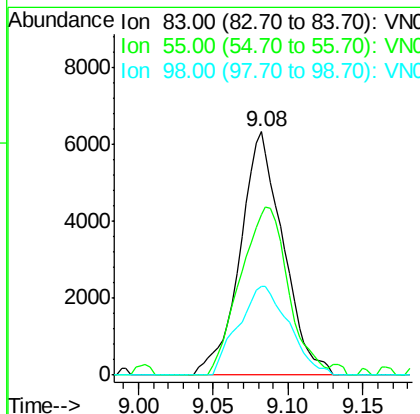
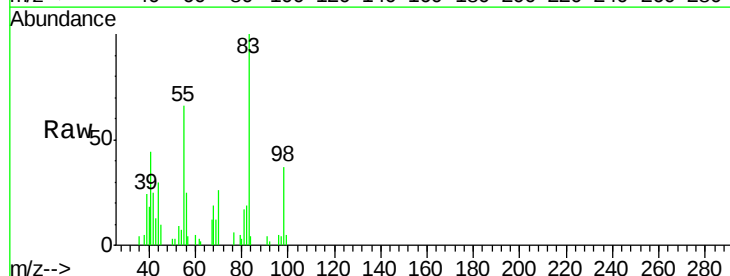
RT: 9.08 min Scan# 2330

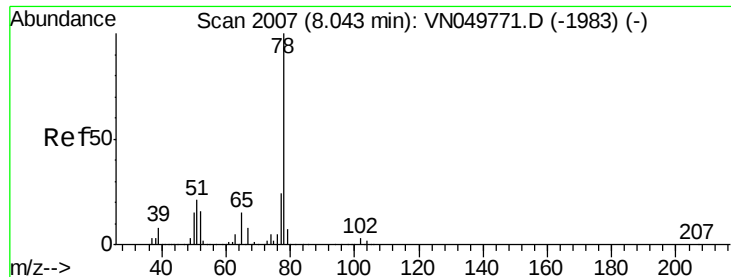
Delta R.T. 0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Tgt Ion:	83	Resp:	12646
Ion Ratio	Lower	Upper	
83	100		
55	65.9	59.7	89.5
98	36.6	36.5	54.7





#40

Benzene

Concen: 0.60 ug/l

RT: 8.04 min Scan# 2007

Delta R.T. 0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion: 78 Resp: 37945

Ion Ratio Lower Upper

78 100

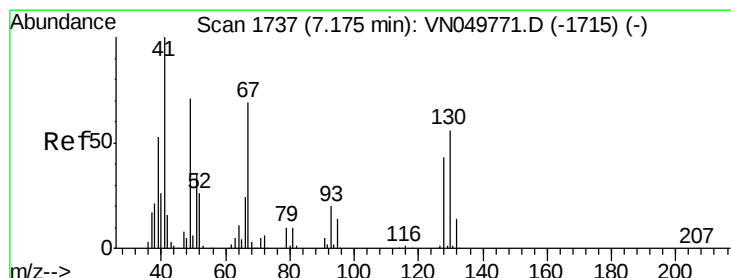
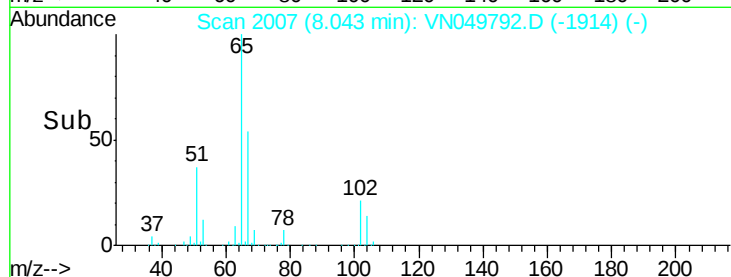
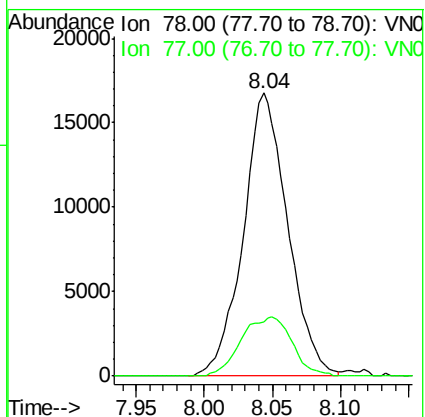
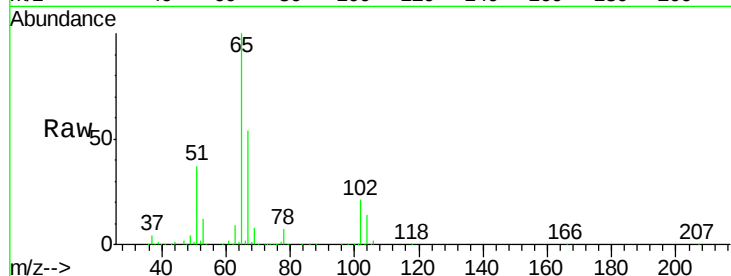
77 19.3 19.0 28.4

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#41

Methacrylonitrile

Concen: 0.33 ug/l

RT: 7.18 min Scan# 1737

Delta R.T. 0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Tgt Ion: 41 Resp: 2359

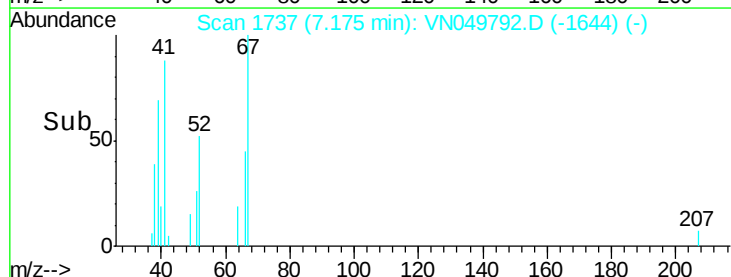
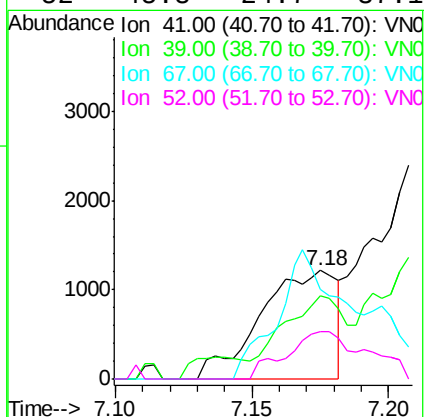
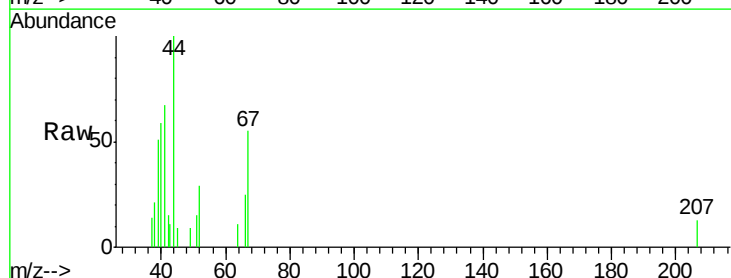
Ion Ratio Lower Upper

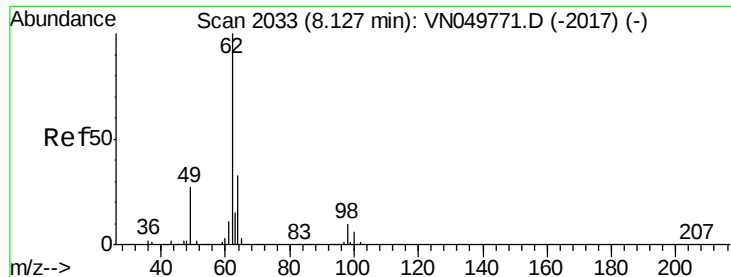
41 100

39 42.3 45.4 68.2#

67 99.2 65.4 98.0#

52 45.8 24.7 37.1#





#42

1,2-Dichloroethane

Concen: 0.62 ug/l

RT: 8.13 min Scan# 2033

Delta R.T. 0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Instrument :

MSVOA_N

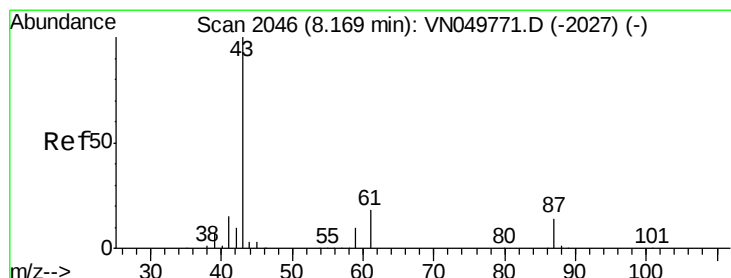
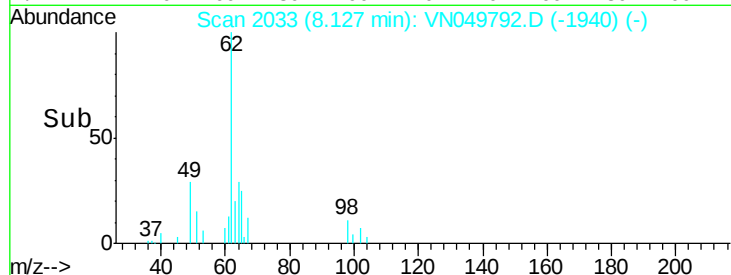
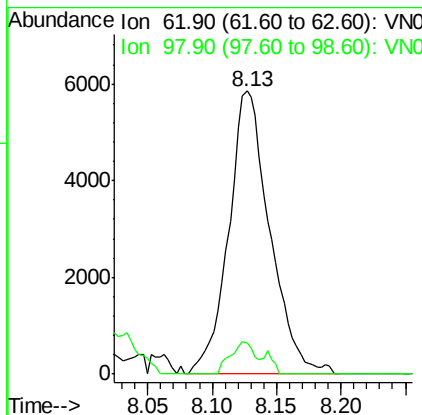
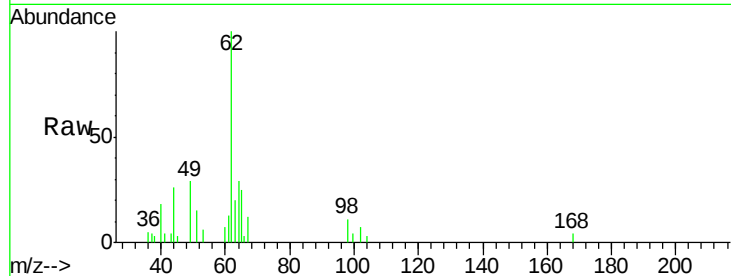
ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion	Ratio	Resp	Lower	Upper
62	100	13011		
98	6.6	0.0	19.0	

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#43

Isopropyl Acetate

Concen: 0.54 ug/l

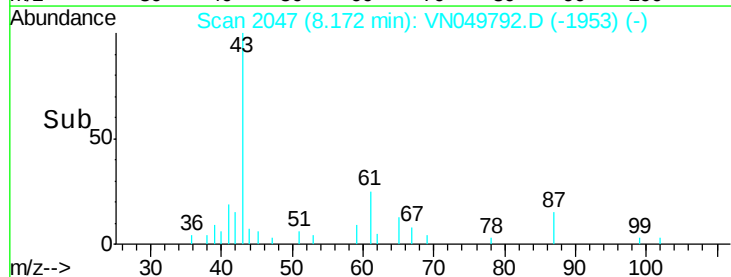
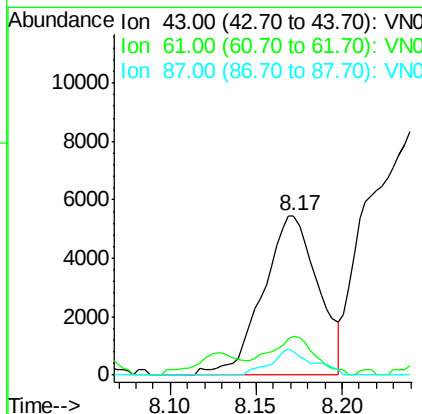
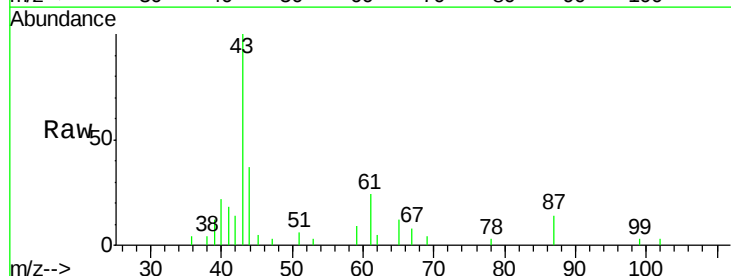
RT: 8.17 min Scan# 2047

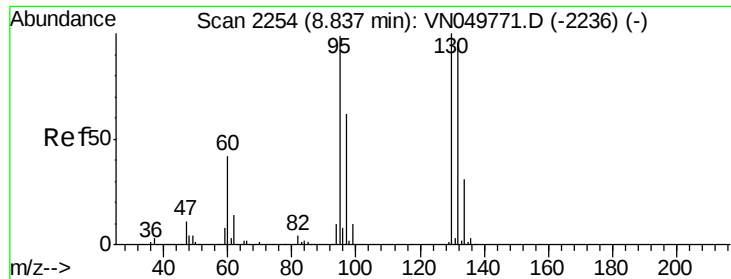
Delta R.T. 0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	12178		
61	20.8	14.9	22.3	
87	12.2	10.0	15.0	





#44

Trichloroethene

Concen: 0.63 ug/l

RT: 8.83 min Scan# 2253

Delta R.T. -0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:130 Resp: 10775

Ion Ratio Lower Upper

130 100

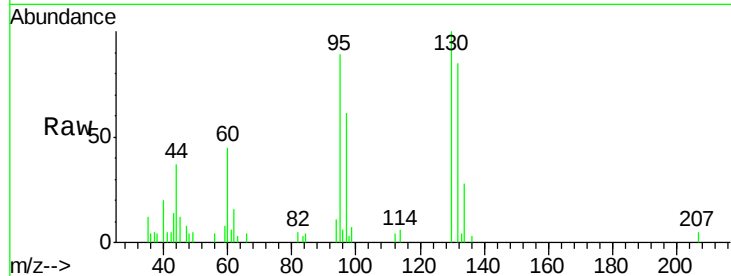
95 88.6 0.0 192.8

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Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0

8.83

6000

5000

4000

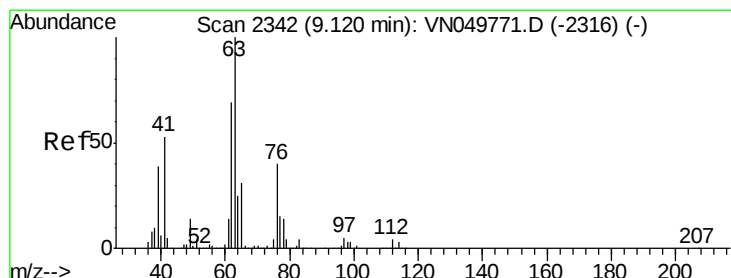
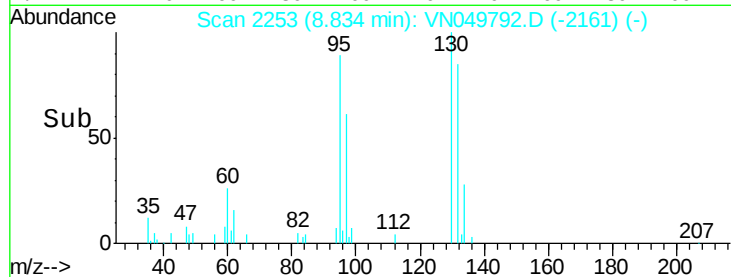
3000

2000

1000

0

Time--> 8.75 8.80 8.85 8.90



#45

1,2-Dichloropropane

Concen: 0.56 ug/l

RT: 9.12 min Scan# 2343

Delta R.T. 0.00 min

Lab File: VN049792.D

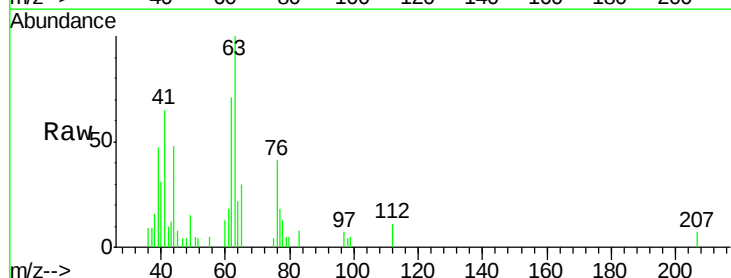
Acq: 13 Jul 2018 13:06

Tgt Ion: 63 Resp: 9530

Ion Ratio Lower Upper

63 100

65 29.8 24.7 37.1



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.12

5000

4000

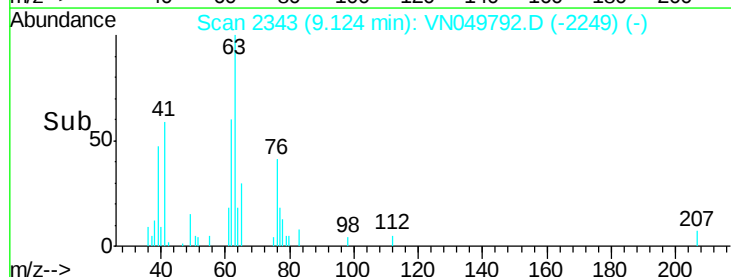
3000

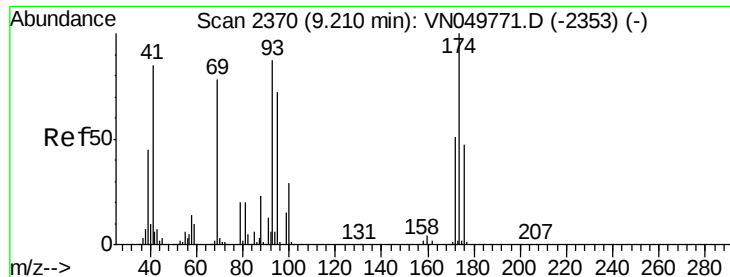
2000

1000

0

Time--> 9.05 9.10 9.15 9.20





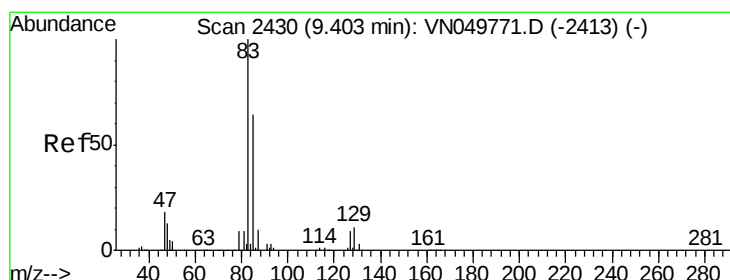
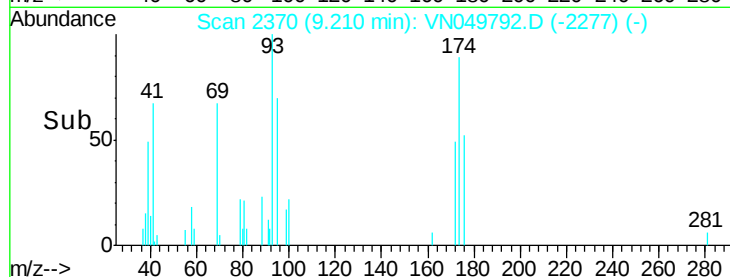
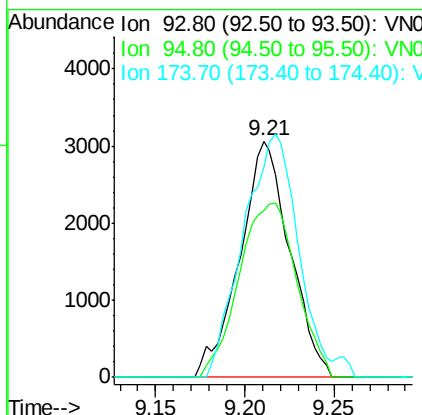
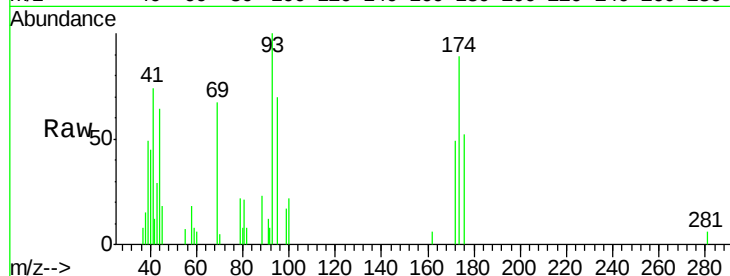
#46
Dibromomethane
Concen: 0.59 ug/l
RT: 9.21 min Scan# 2370
Delta R.T. 0.00 min
Lab File: VN049792.D
Acq: 13 Jul 2018 13:06

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
93	100		
95	85.2	67.9	101.9
174	112.4	89.4	134.0

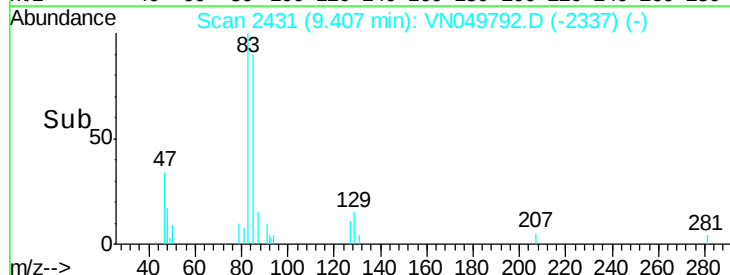
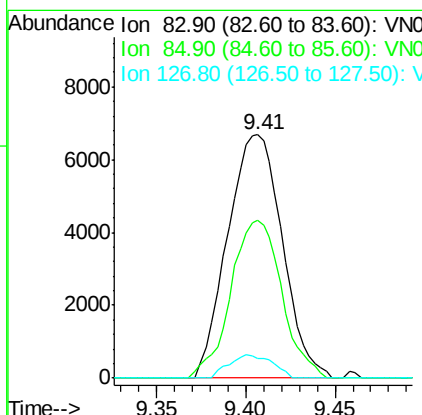
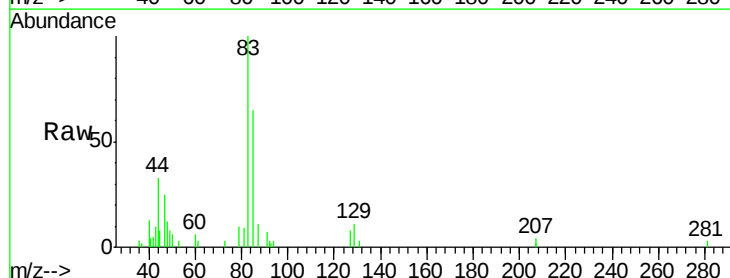
Manual Integrations
APPROVED

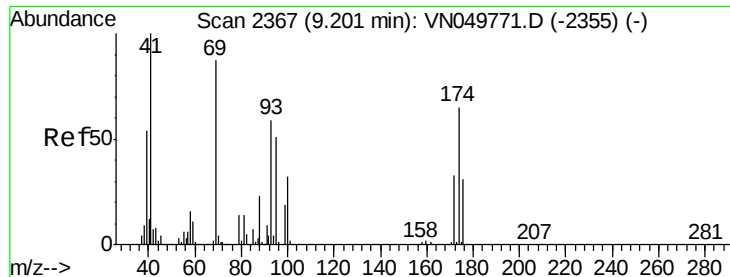
MMDadoda
7/16/2018 11:25:25 AM



#47
Bromodichloromethane
Concen: 0.64 ug/l
RT: 9.41 min Scan# 2431
Delta R.T. 0.00 min
Lab File: VN049792.D
Acq: 13 Jul 2018 13:06

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.7	50.5	75.7
127	8.0	6.8	10.2





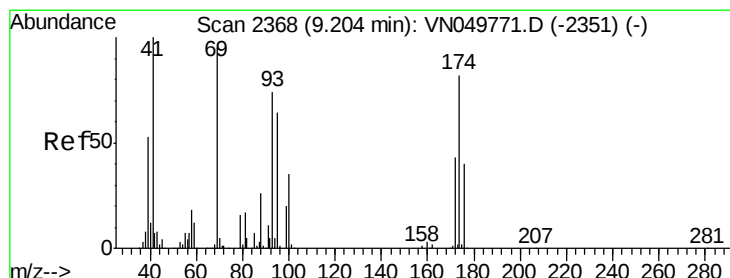
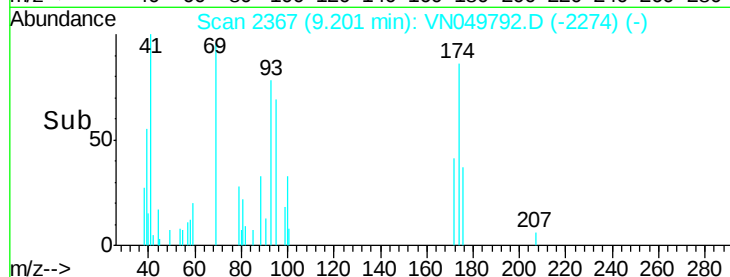
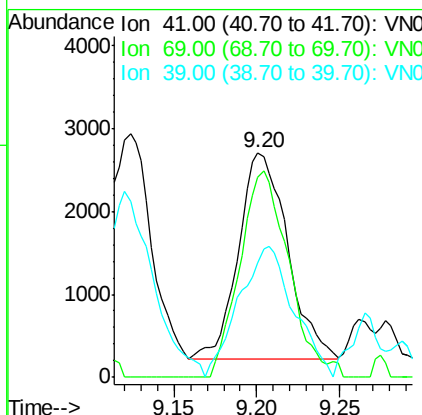
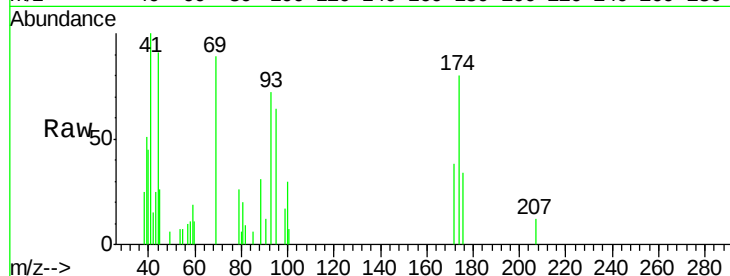
#48
Methvl methacrylate
Concen: 0.45 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. 0.00 min
Lab File: VN049792.D
Acq: 13 Jul 2018 13:06

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
41	100		
69	100.7	71.5	107.3
39	71.3	44.7	67.1#

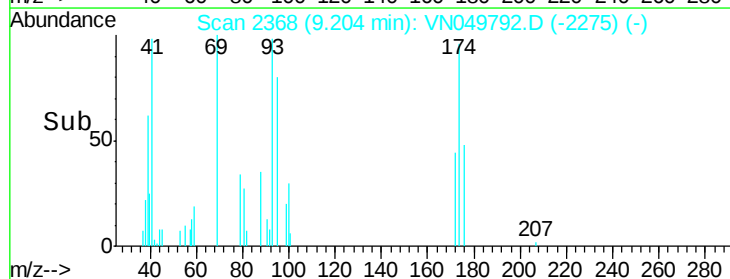
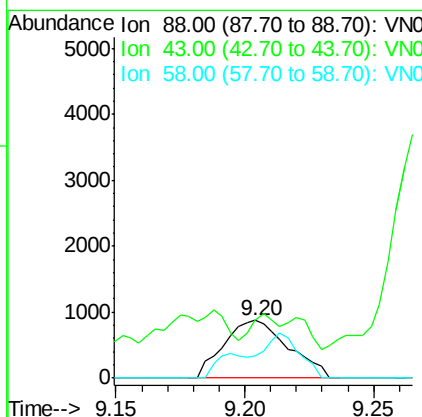
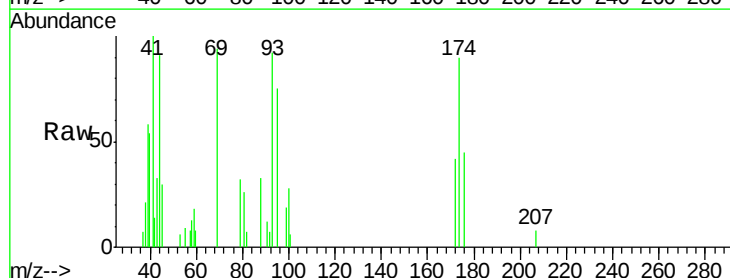
Manual Integrations
APPROVED

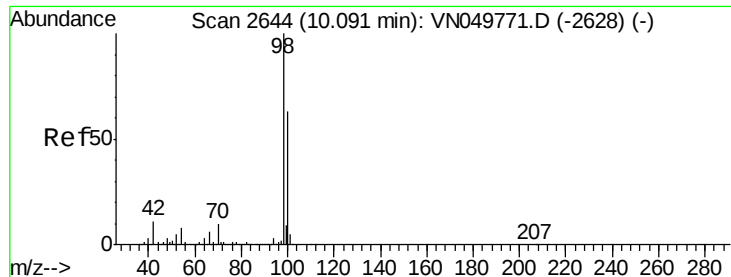
MMDadoda
7/16/2018 11:25:25 AM



#49
1,4-Dioxane
Concen: 10.19 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN049792.D
Acq: 13 Jul 2018 13:06

Tgt Ion	Ratio	Lower	Upper
88	100		
43	17.3	25.1	37.7#
58	45.1	52.5	78.7#





#50

Toluene-d8

Concen: 48.29 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion: 98 Resp: 2304691

Ion Ratio Lower Upper

98 100

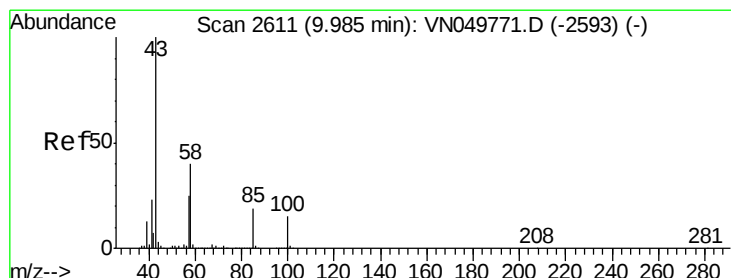
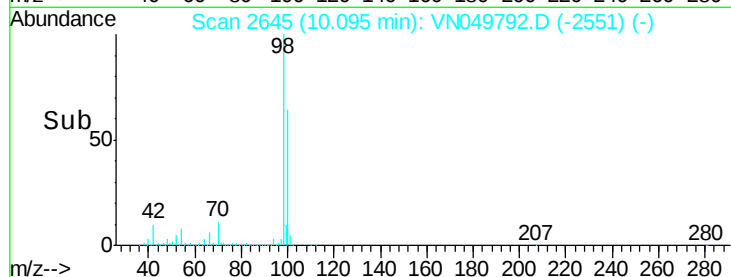
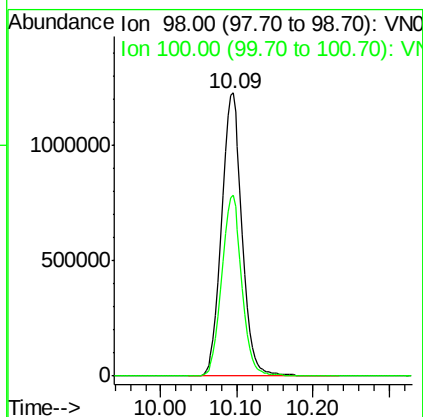
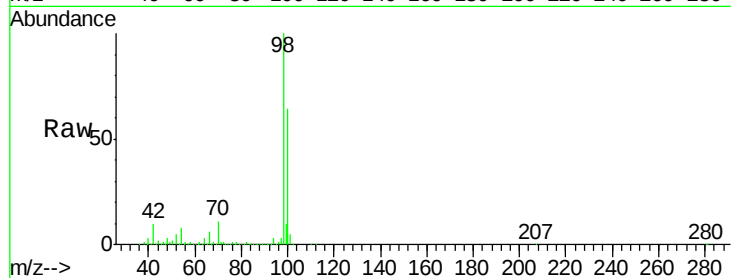
100 62.9 51.7 77.5

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#51

4-Methyl-2-Pentanone

Concen: 2.41 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. 0.00 min

Lab File: VN049792.D

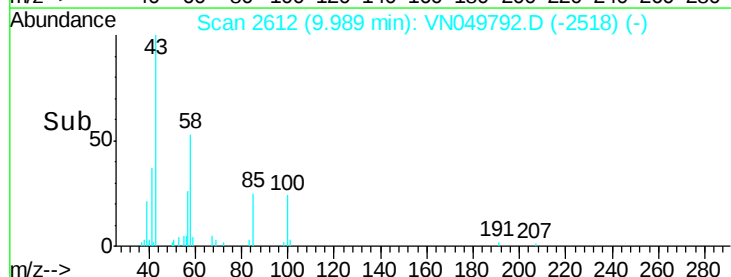
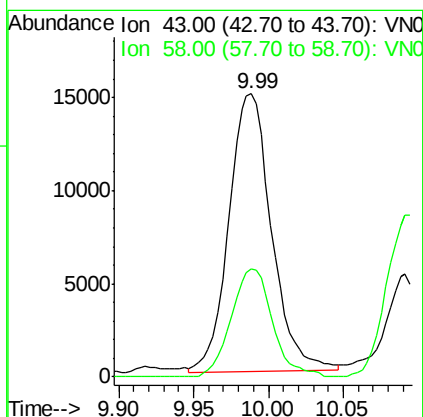
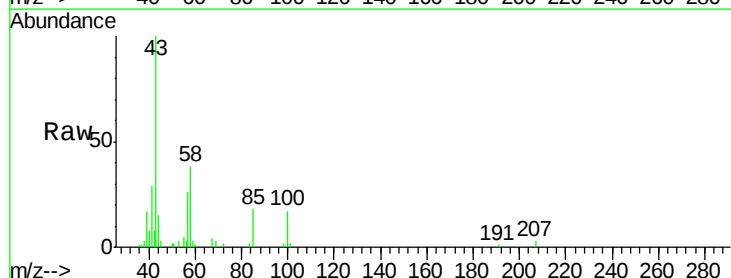
Acq: 13 Jul 2018 13:06

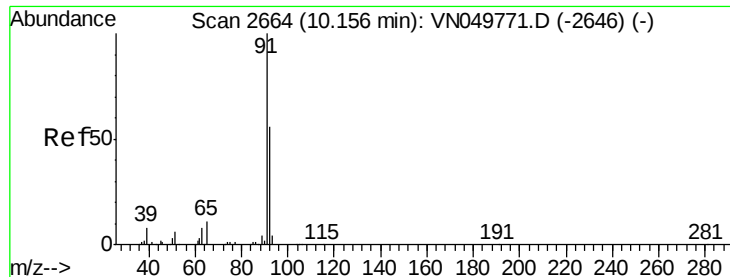
Tgt Ion: 43 Resp: 29666

Ion Ratio Lower Upper

43 100

58 37.4 31.8 47.8





#52

Toluene

Concen: 0.60 ug/l

RT: 10.16 min Scan# 2665

Delta R.T. 0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion: 92 Resp: 22992

Ion Ratio Lower Upper

92 100

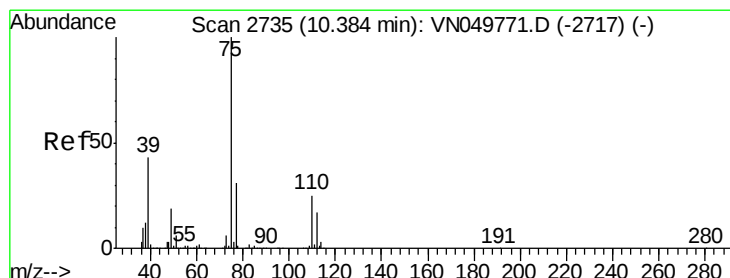
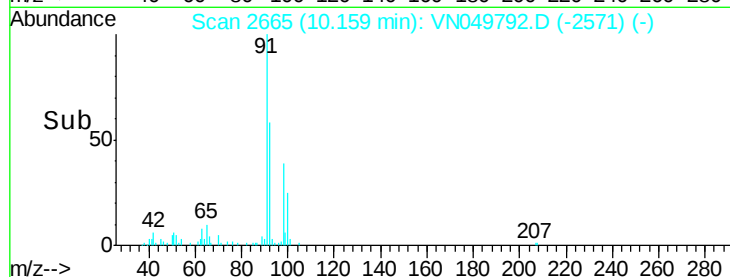
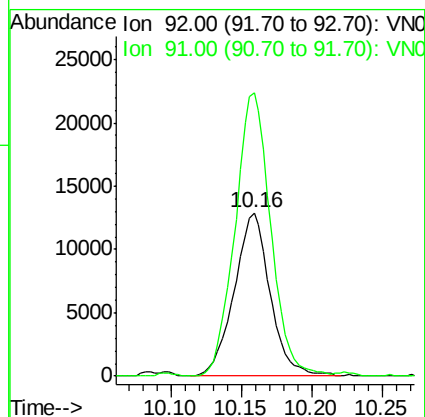
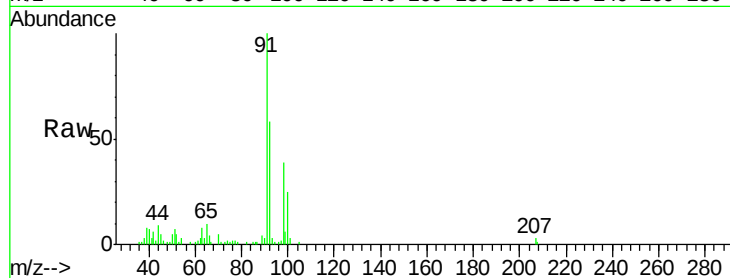
91 172.4 140.1 210.1

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#53

t-1,3-Dichloropropene

Concen: 0.52 ug/l

RT: 10.38 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VN049792.D

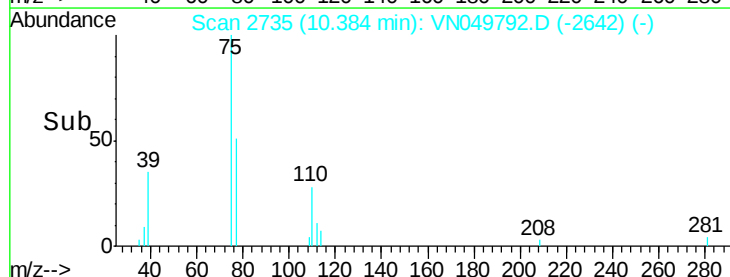
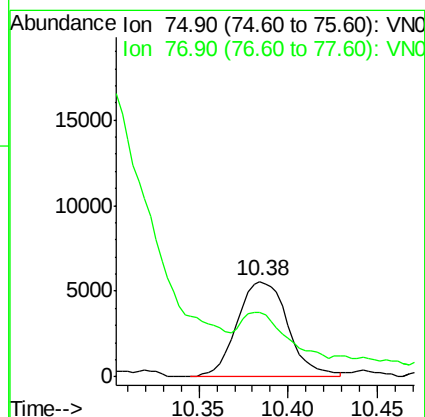
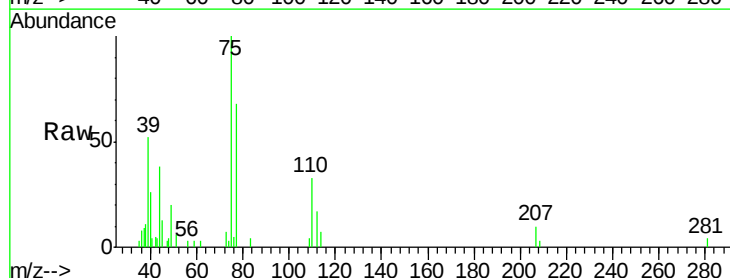
Acq: 13 Jul 2018 13:06

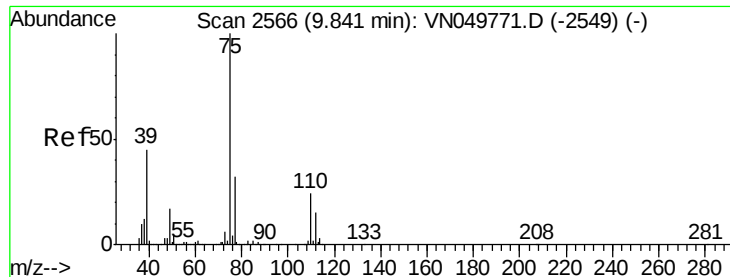
Tgt Ion: 75 Resp: 11154

Ion Ratio Lower Upper

75 100

77 45.2 25.2 37.8#





#54

cis-1,3-Dichloropropene

Concen: 0.51 ug/l

RT: 9.84 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Instrument :

MSVOA_N

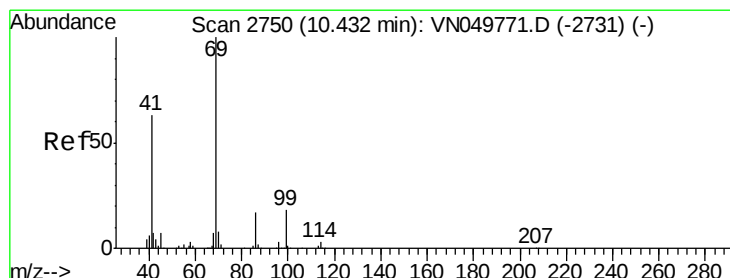
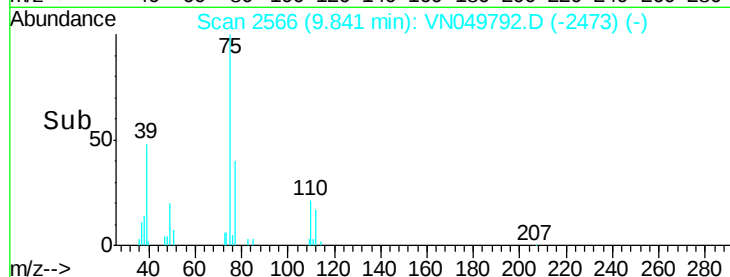
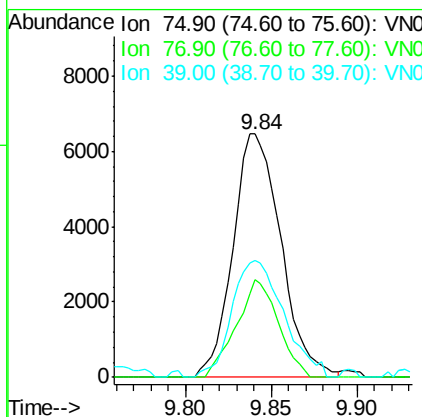
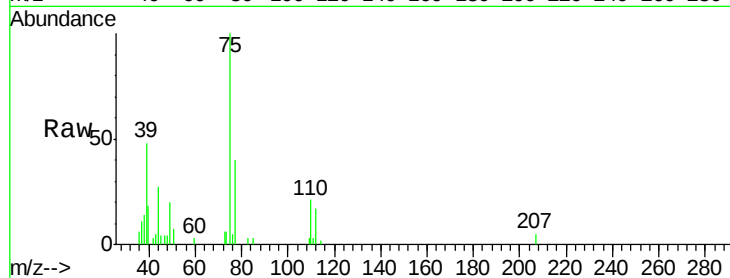
ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:	75	Resp:	12592
Ion Ratio	Lower	Upper	
75	100		
77	40.1	25.3	37.9#
39	48.0	35.5	53.3

Manual Integrations
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#56

Ethyl methacrylate

Concen: 0.51 ug/l

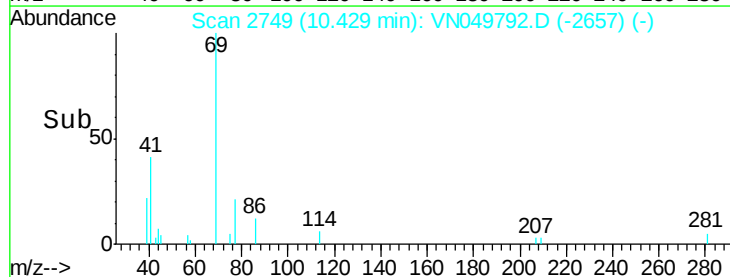
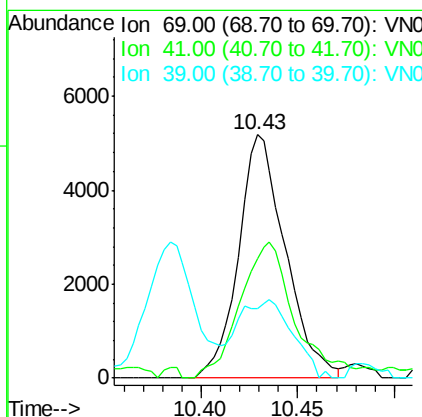
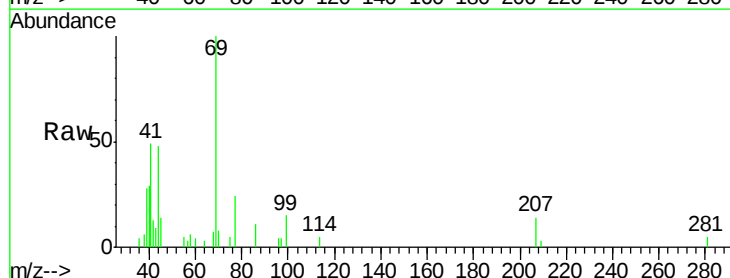
RT: 10.43 min Scan# 2749

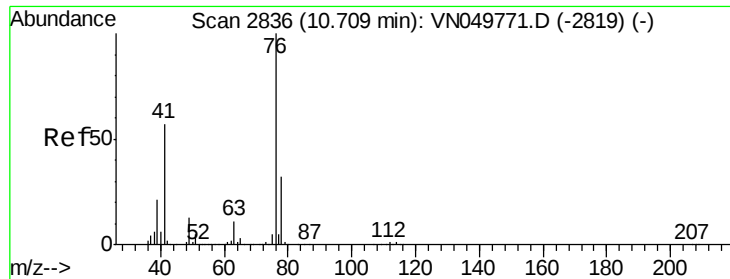
Delta R.T. -0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Tgt Ion:	69	Resp:	8740
Ion Ratio	Lower	Upper	
69	100		
41	66.4	51.6	77.4
39	38.0	25.8	38.8





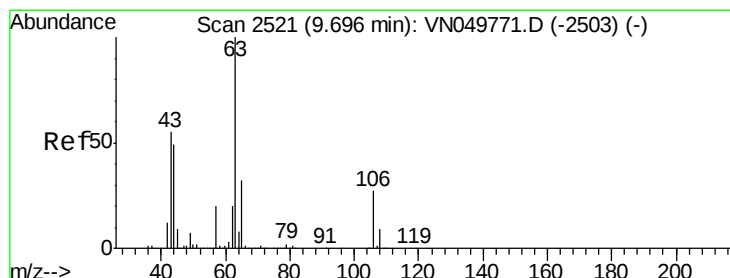
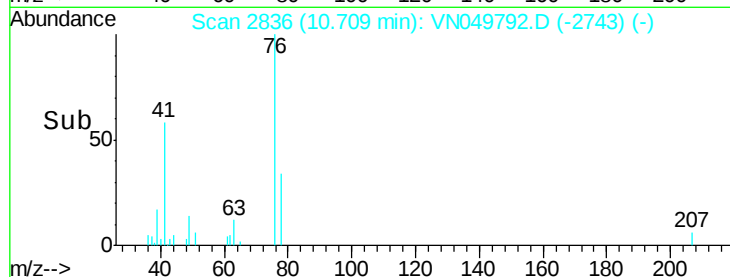
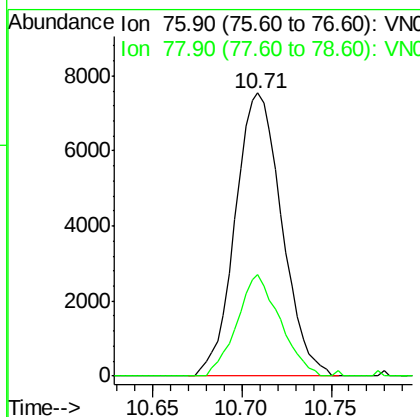
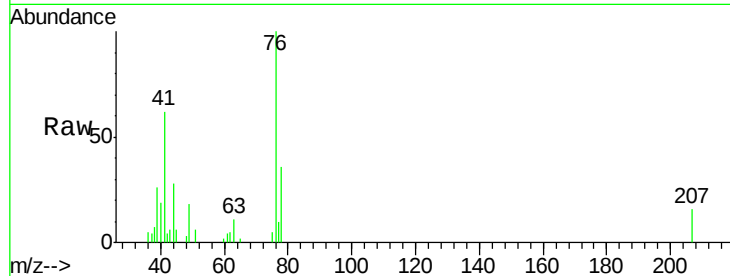
#57
 1,3-Dichloropropane
 Concen: 0.56 ug/l
 RT: 10.71 min Scan# 2836
 Delta R.T. 0.00 min
 Lab File: VN049792.D
 Acq: 13 Jul 2018 13:06

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

Tot Ion: 76 Resp: 13730
 Ion Ratio Lower Upper
 76 100
 78 33.1 25.8 38.8

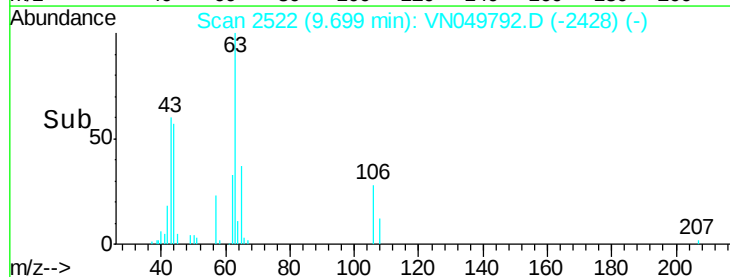
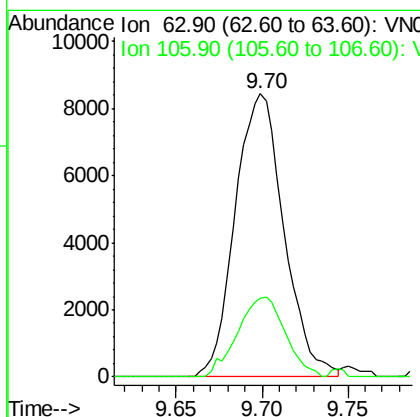
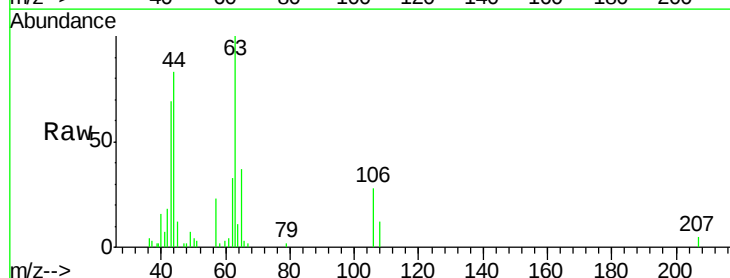
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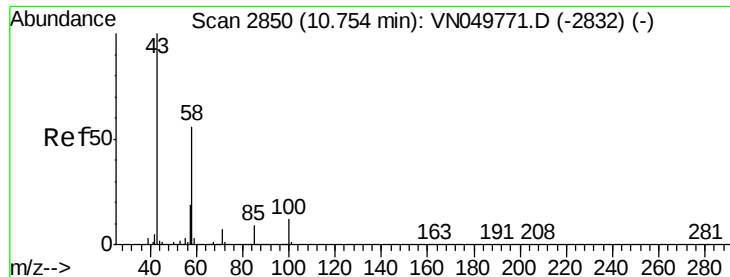
MMDadoda
 7/16/2018 11:25:25 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 2.01 ug/l
 RT: 9.70 min Scan# 2522
 Delta R.T. 0.00 min
 Lab File: VN049792.D
 Acq: 13 Jul 2018 13:06

Tgt Ion: 63 Resp: 16620
 Ion Ratio Lower Upper
 63 100
 106 27.5 21.8 32.8





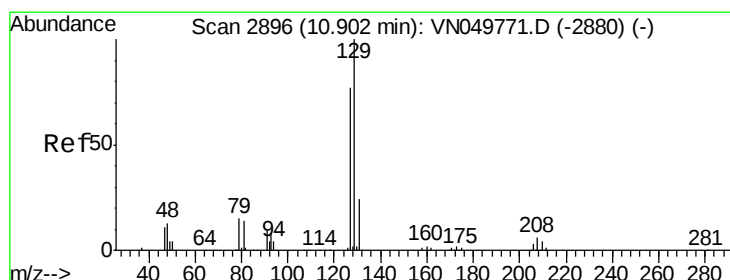
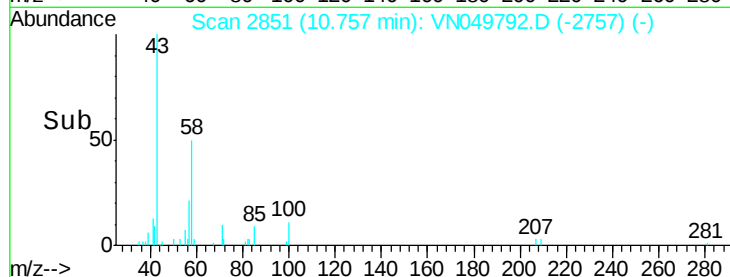
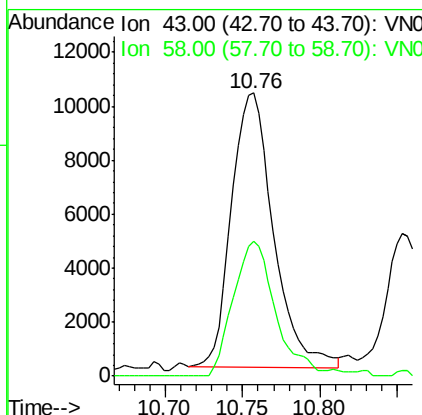
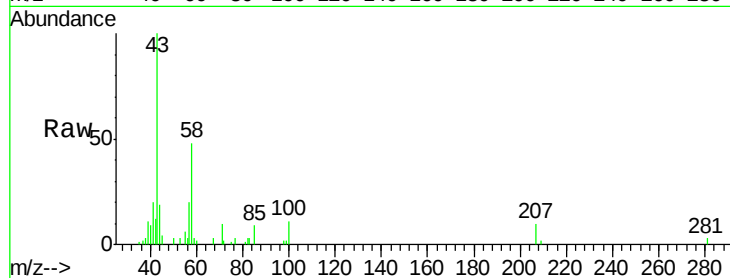
#59
2-Hexanone
Concen: 2.34 ug/l
RT: 10.76 min Scan# 2851
Delta R.T. 0.00 min
Lab File: VN049792.D
Acq: 13 Jul 2018 13:06

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2018

Tot Ion: 43 Resp: 19130
Ion Ratio Lower Upper
43 100
58 49.4 27.8 83.4

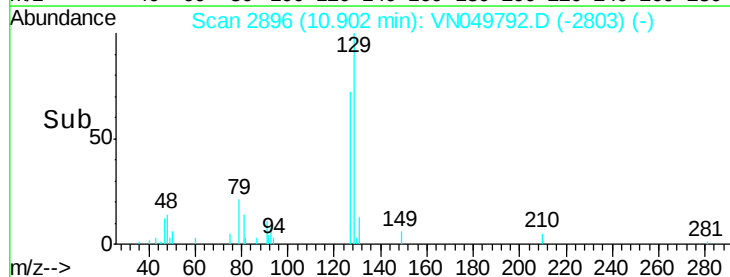
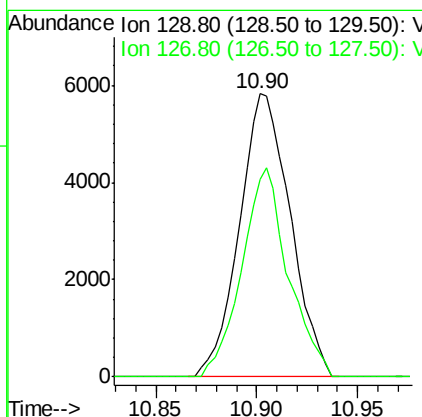
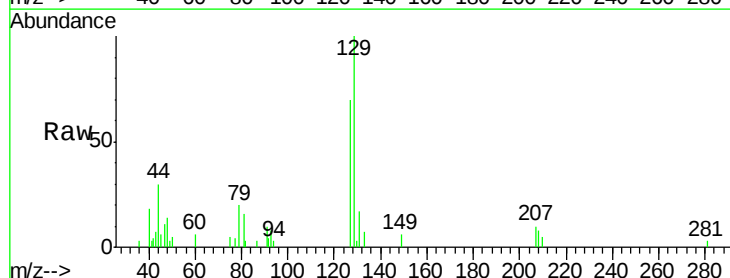
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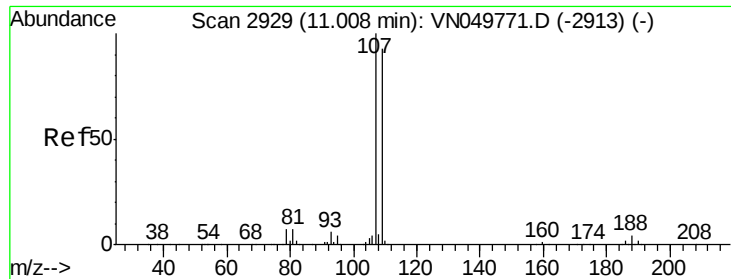
MMDadoda
7/16/2018 11:25:25 AM



#60
Dibromochloromethane
Concen: 0.61 ug/l
RT: 10.90 min Scan# 2896
Delta R.T. 0.00 min
Lab File: VN049792.D
Acq: 13 Jul 2018 13:06

Tgt Ion: 129 Resp: 10265
Ion Ratio Lower Upper
129 100
127 67.4 38.3 114.9





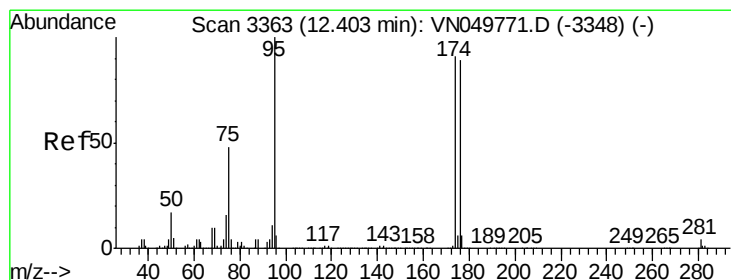
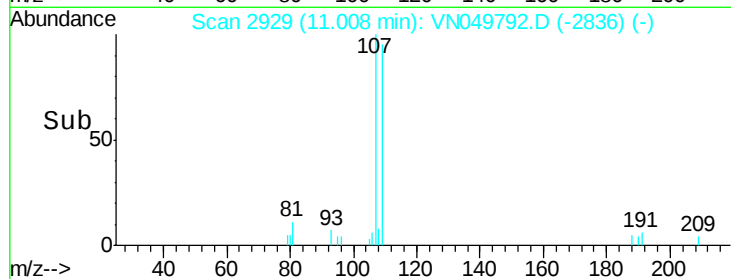
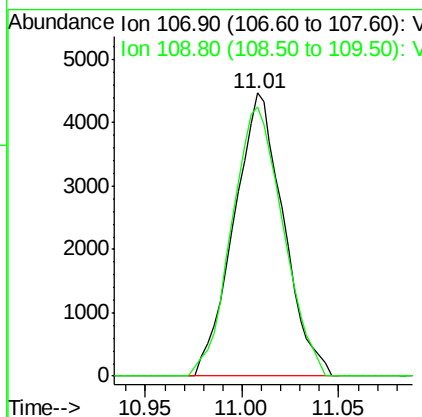
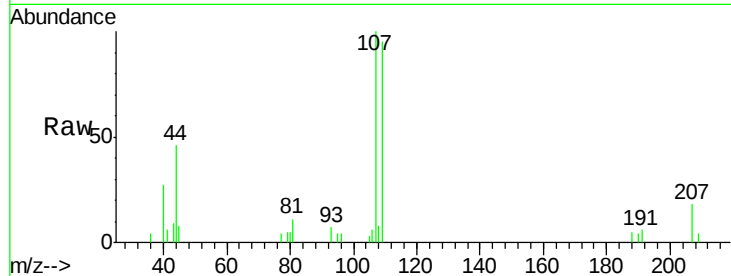
#61
 1,2-Dibromoethane
 Concen: 0.57 ug/l
 RT: 11.01 min Scan# 2929
 Delta R.T. 0.00 min
 Lab File: VN049792.D
 Acq: 13 Jul 2018 13:06

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
107	100		
109	98.7	75.0	112.6

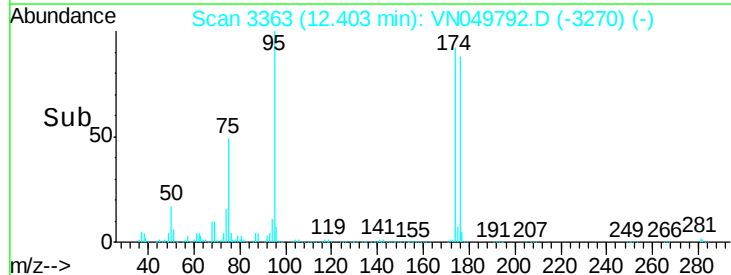
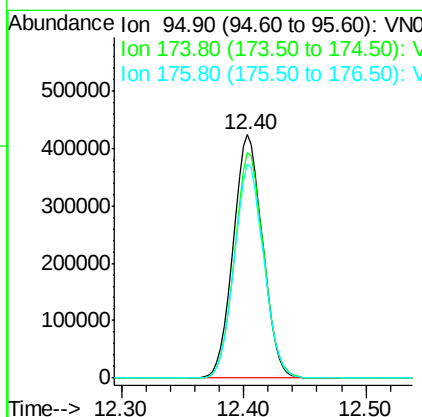
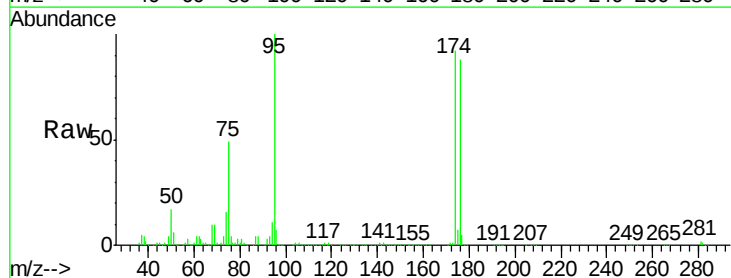
Manual Integrations
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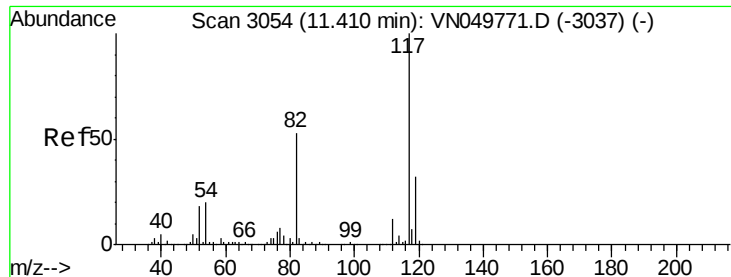
MMDadoda
 7/16/2018 11:25:25 AM



#62
 4-Bromofluorobenzene
 Concen: 41.57 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.00 min
 Lab File: VN049792.D
 Acq: 13 Jul 2018 13:06

Tgt Ion	Ratio	Lower	Upper
95	100		
174	92.1	0.0	179.6
176	87.8	0.0	174.0





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:117 Resp: 1598984

Ion Ratio Lower Upper

117 100

82 53.6 41.9 62.9

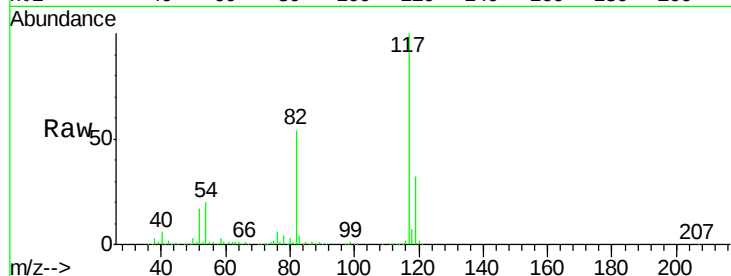
119 31.8 25.4 38.2

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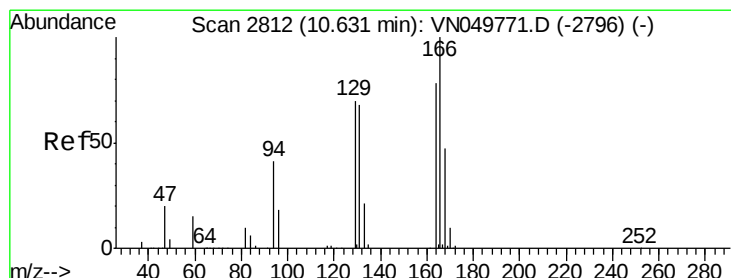
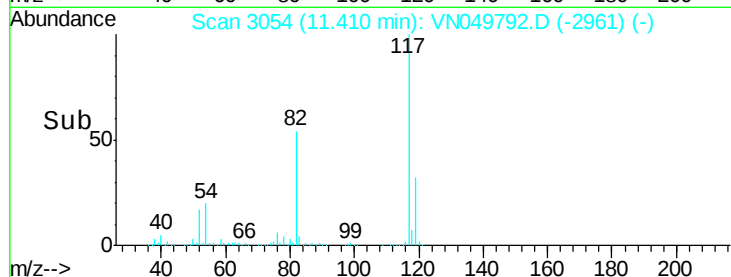
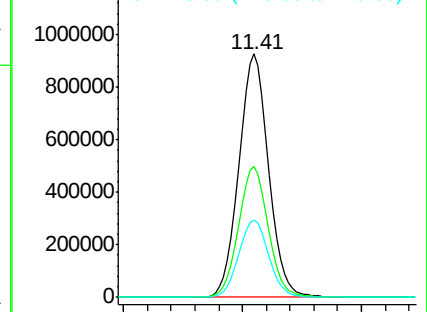


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 0.61 ug/l

RT: 10.63 min Scan# 2812

Delta R.T. 0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Tgt Ion:164 Resp: 8879

Ion Ratio Lower Upper

164 100

166 135.2 101.8 152.6

129 108.2 72.8 109.2

131 86.5 70.0 105.0

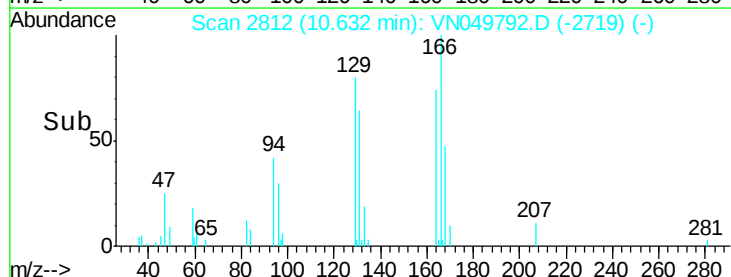
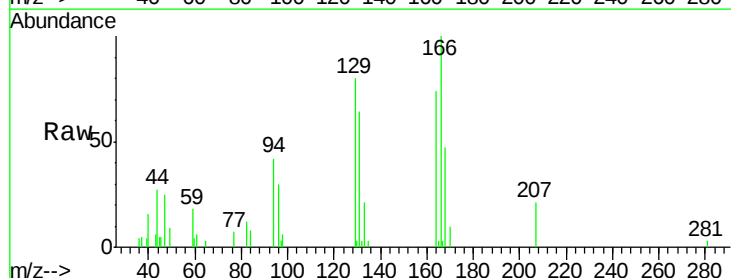
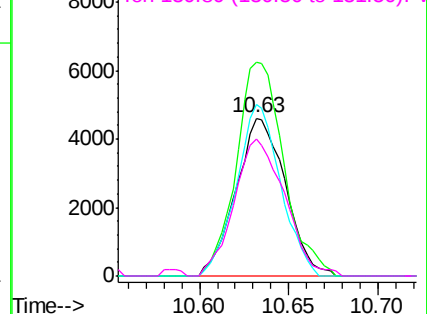
Abundance

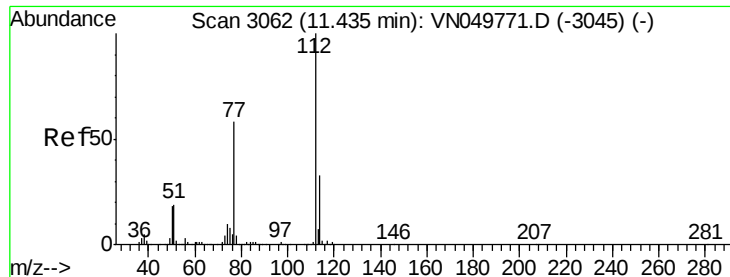
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 0.60 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:112 Resp: 24834

Ion Ratio Lower Upper

112 100

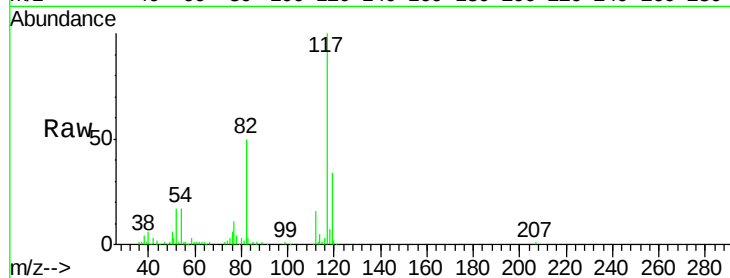
114 34.2 25.4 38.0

Manual Integrations

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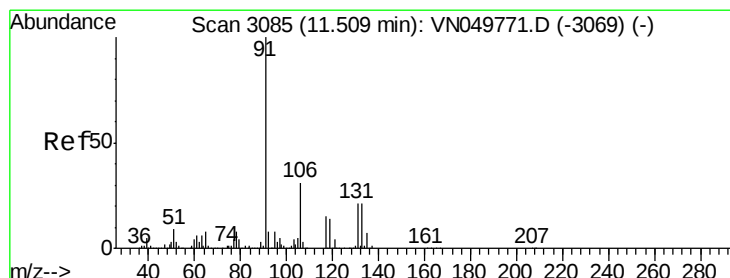
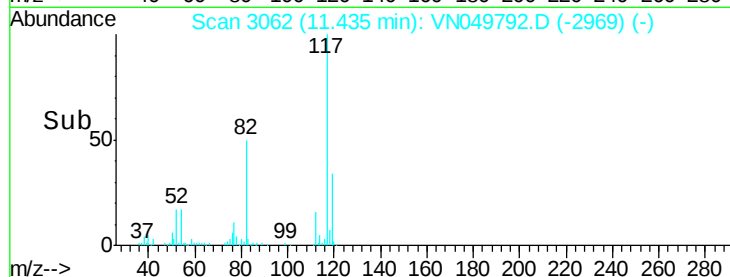
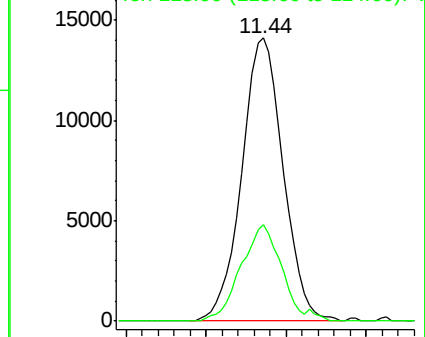
MMDadoda

7/16/2018 11:25:25 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 0.57 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. 0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

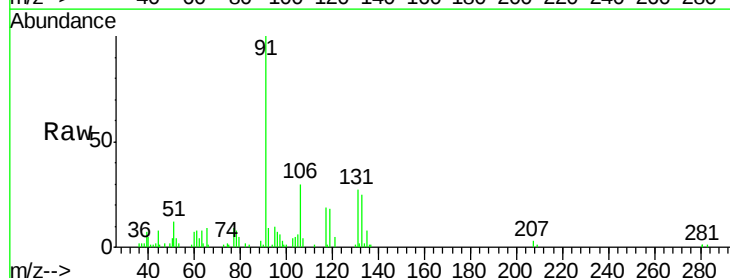
Tgt Ion:131 Resp: 8989

Ion Ratio Lower Upper

131 100

133 105.8 47.5 142.6

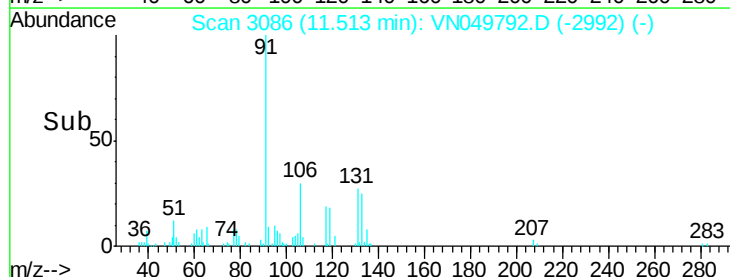
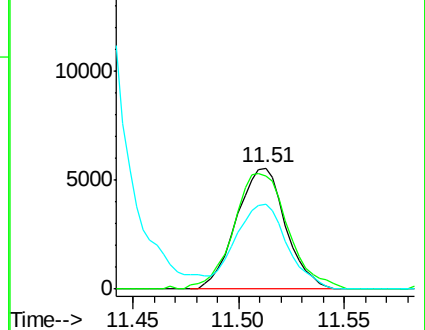
119 0.0 33.1 99.3#

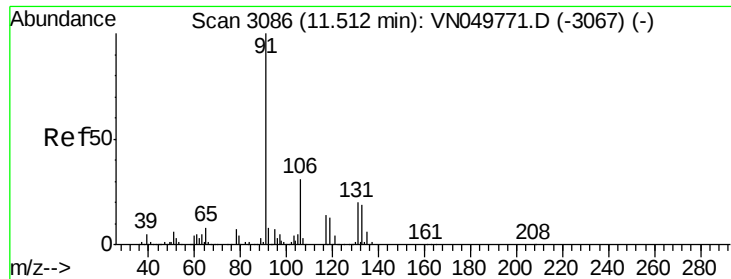


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





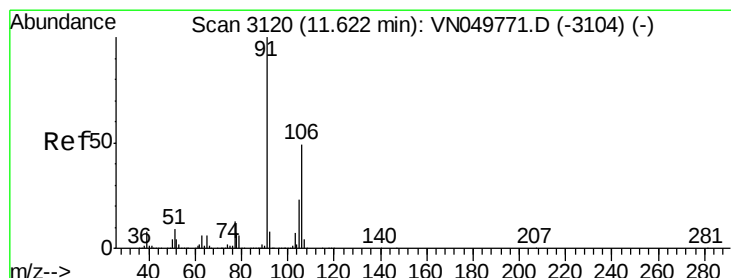
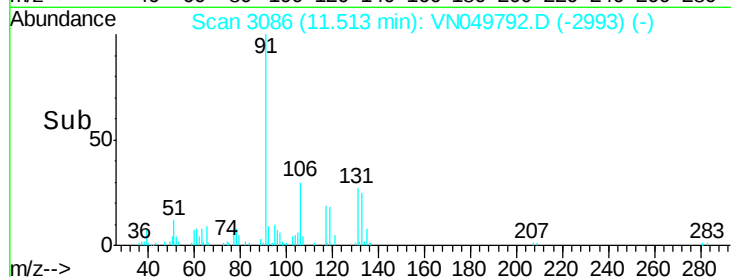
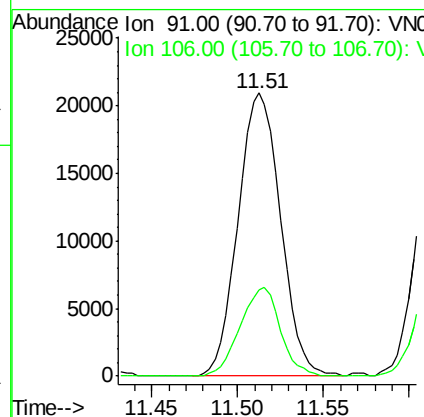
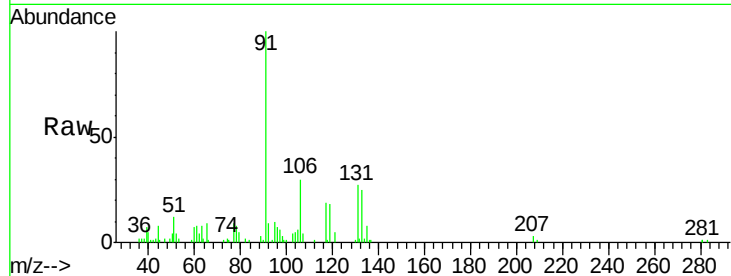
#67
Ethyl Benzene
Concen: 0.53 ug/l
RT: 11.51 min Scan# 3086
Delta R.T. 0.00 min
Lab File: VN049792.D
Acq: 13 Jul 2018 13:06

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2018

Tot Ion: 91 Resp: 35948
Ion Ratio Lower Upper
91 100
106 30.3 24.8 37.2

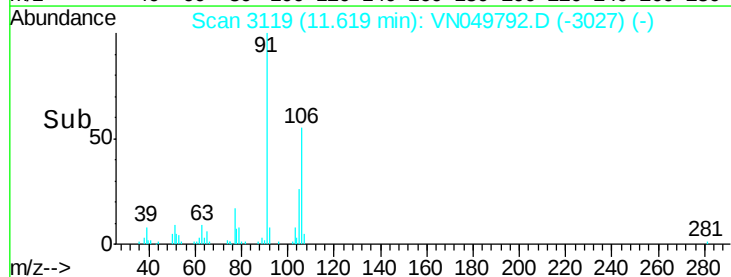
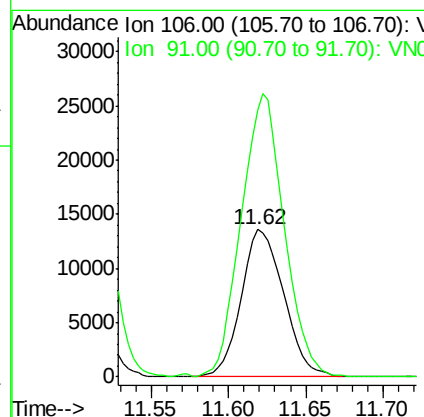
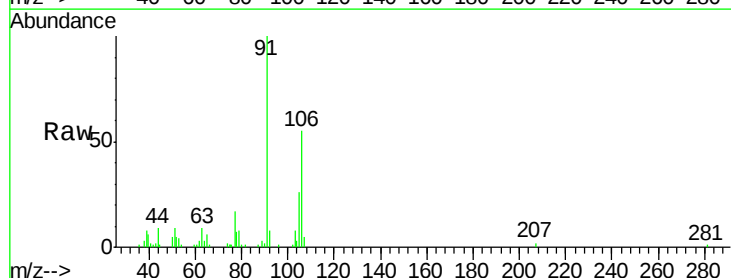
Manual Integrations
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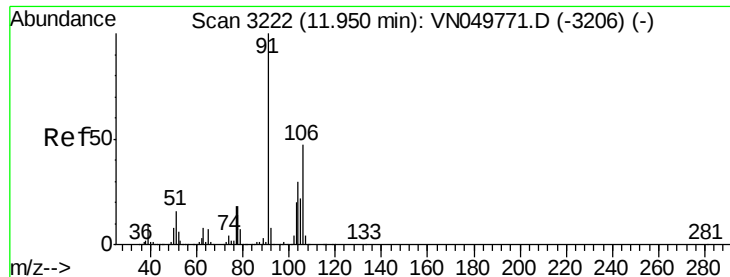
MMDadoda
7/16/2018 11:25:25 AM



#68
m/p-Xylenes
Concen: 1.01 ug/l
RT: 11.62 min Scan# 3119
Delta R.T. -0.00 min
Lab File: VN049792.D
Acq: 13 Jul 2018 13:06

Tgt Ion: 106 Resp: 25934
Ion Ratio Lower Upper
106 100
91 194.6 163.4 245.2





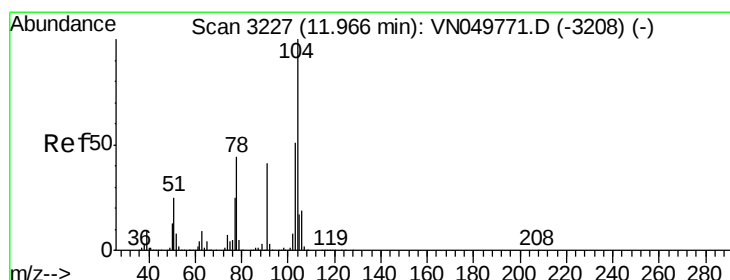
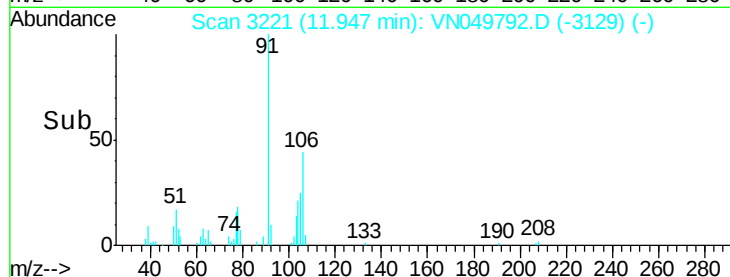
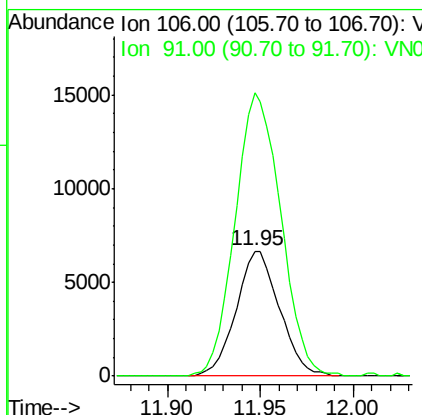
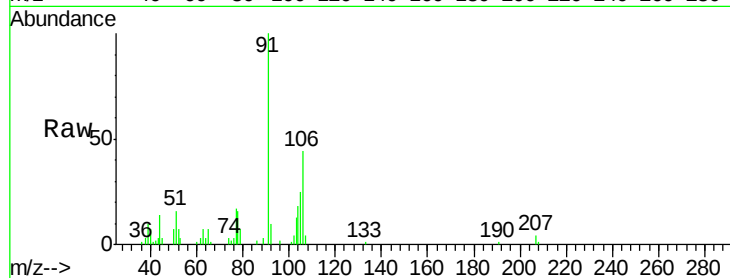
#69
o-Xylene
Concen: 0.44 ug/l
RT: 11.95 min Scan# 3221
Delta R.T. -0.00 min
Lab File: VN049792.D
Acq: 13 Jul 2018 13:06

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2018

Tot Ion:106 Resp: 10870
Ion Ratio Lower Upper
106 100
91 238.9 108.7 326.1

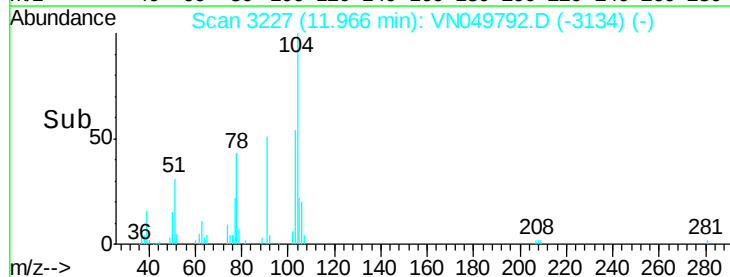
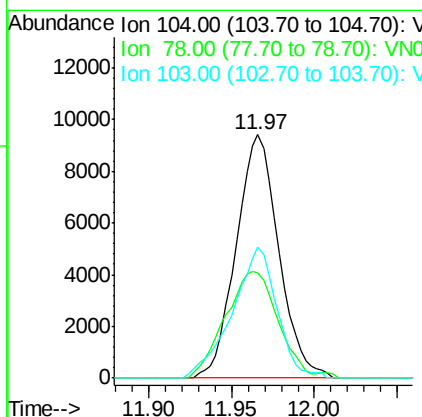
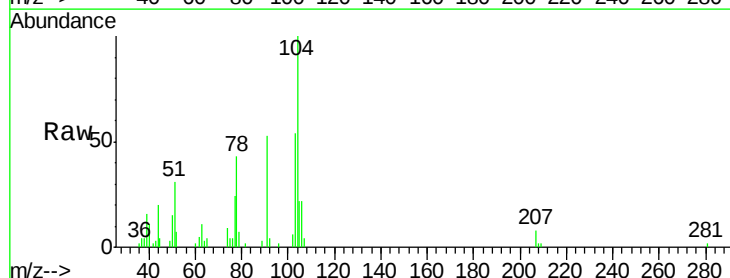
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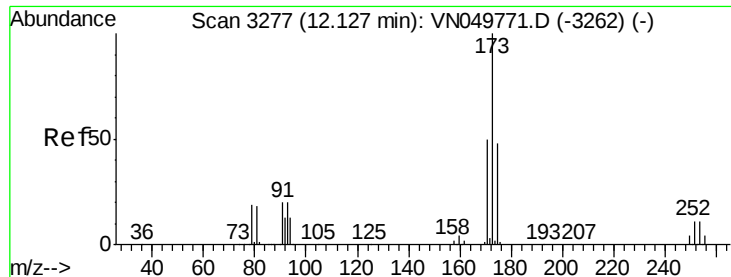
MMDadoda
7/16/2018 11:25:25 AM



#70
Styrene
Concen: 0.43 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN049792.D
Acq: 13 Jul 2018 13:06

Tgt Ion:104 Resp: 16779
Ion Ratio Lower Upper
104 100
78 54.1 39.2 58.8
103 56.5 44.6 67.0





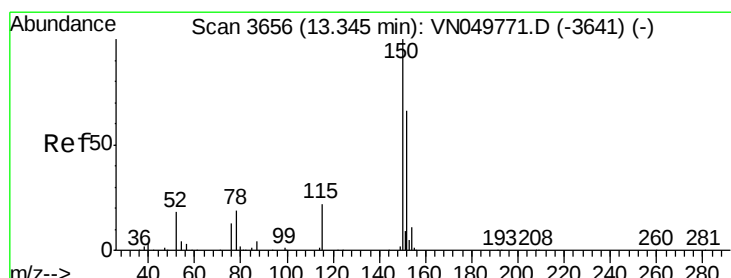
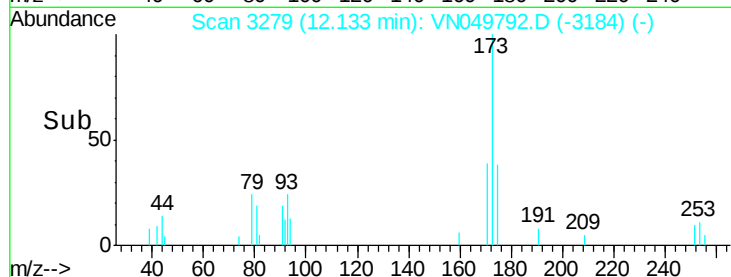
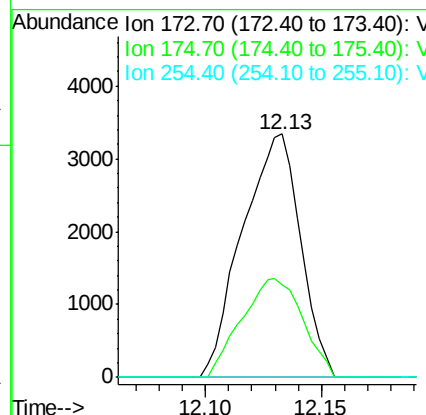
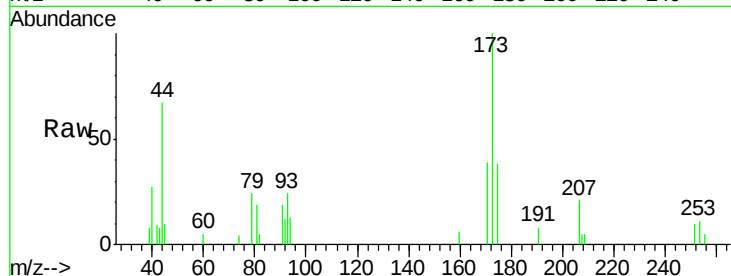
#71
Bromoform
Concen: 0.55 ug/l
RT: 12.13 min Scan# 3279
Delta R.T. 0.01 min
Lab File: VN049792.D
Acq: 13 Jul 2018 13:06

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
173	100		
175	42.8	24.6	73.8
254	0.0	0.2	0.2

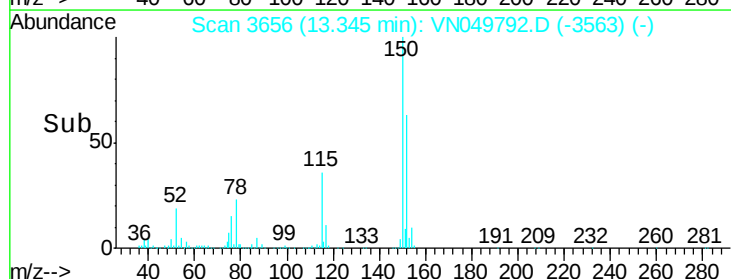
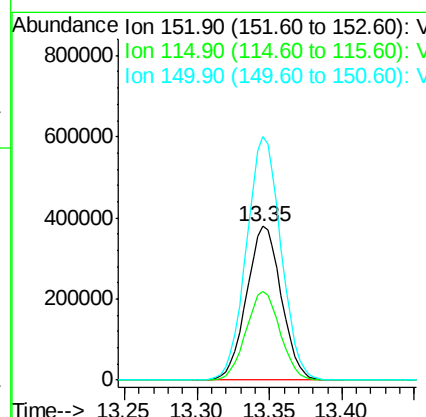
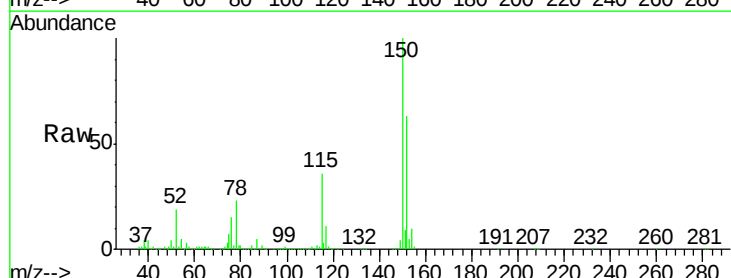
Manual Integrations
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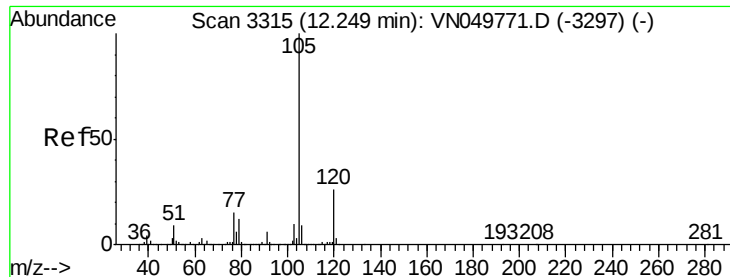
MMDadoda
7/16/2018 11:25:25 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN049792.D
Acq: 13 Jul 2018 13:06

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.1	28.1	84.2
150	156.9	0.0	347.6





#73

Isopropylbenzene

Concen: 0.56 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. 0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:105 Resp: 29346

Ion Ratio Lower Upper

105 100

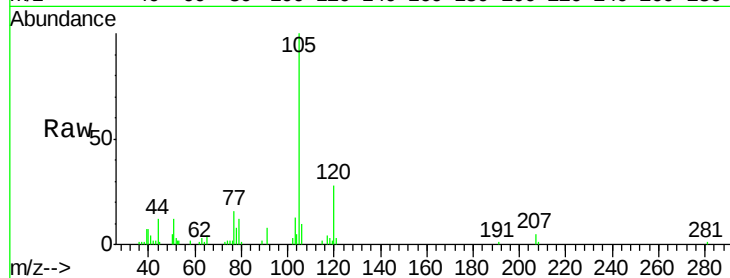
120 29.6 13.3 39.8

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

20000

15000

10000

5000

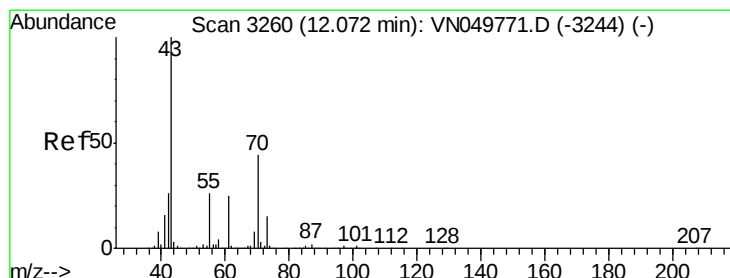
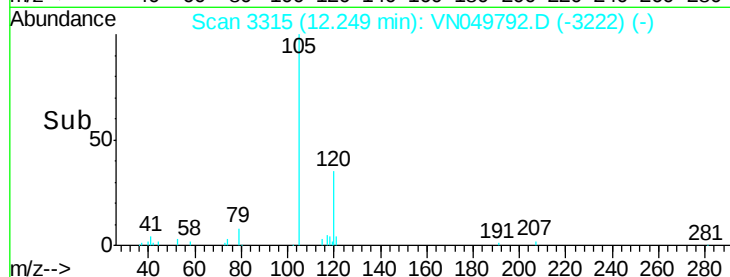
0

Time-->

12.20

12.25

12.30



#74

N-ethyl acetate

Concen: 0.51 ug/l

RT: 12.07 min Scan# 3260

Delta R.T. 0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Tgt Ion: 43 Resp: 6919

Ion Ratio Lower Upper

43 100

70 43.5 34.8 52.2

55 32.8 20.9 31.3#

61 24.6 19.9 29.9

Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

6000

4000

2000

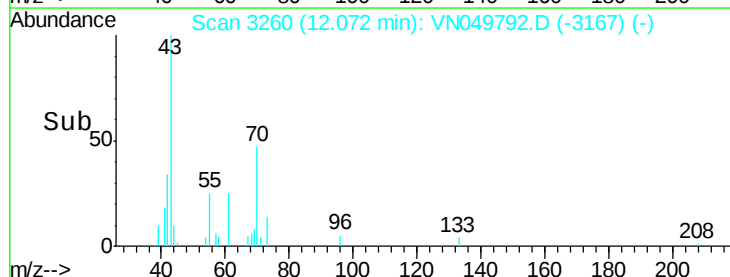
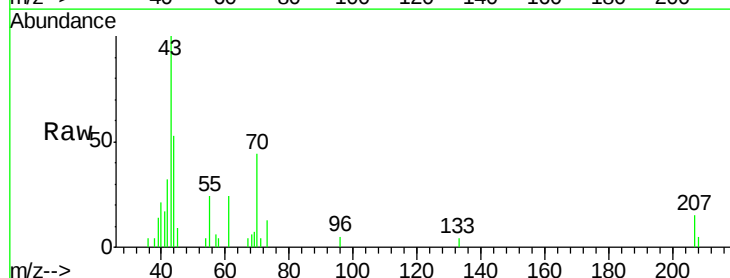
0

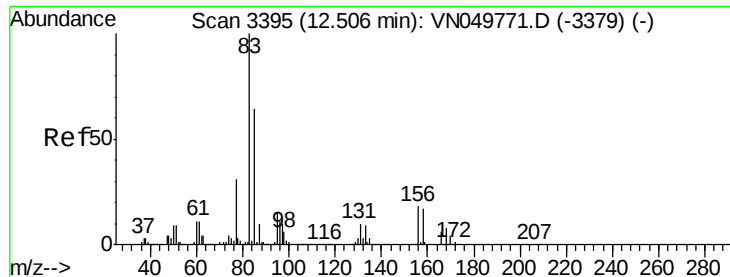
Time-->

12.05

12.10

12.15





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Instrument :

MSVOA_N

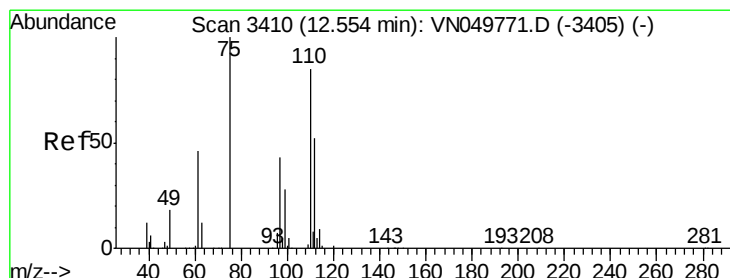
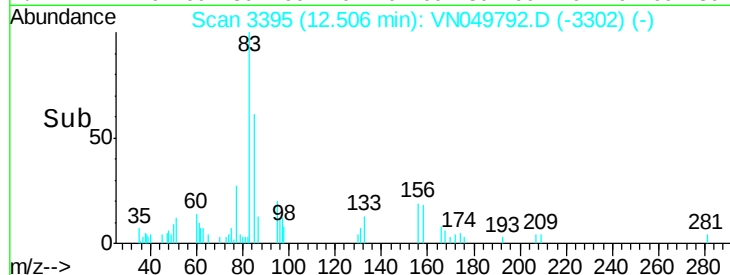
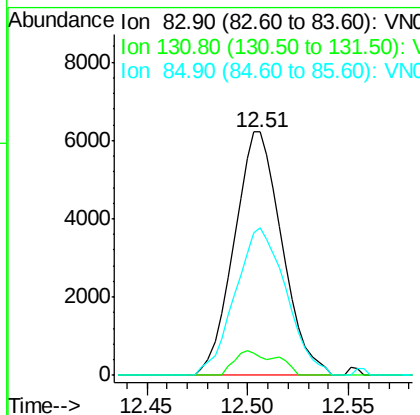
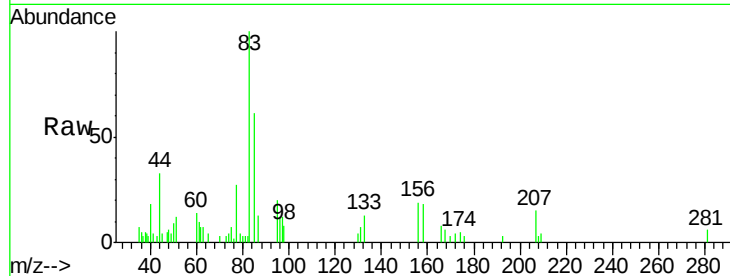
ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:	83	Resp:	10319
Ion Ratio	Lower	Upper	
83	100		
131	8.8	5.2	15.6
85	64.5	32.5	97.4

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#76

1,2,3-Trichloropropane

Concen: 0.63 ug/l m

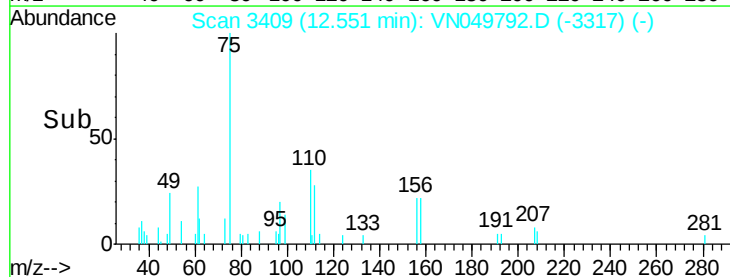
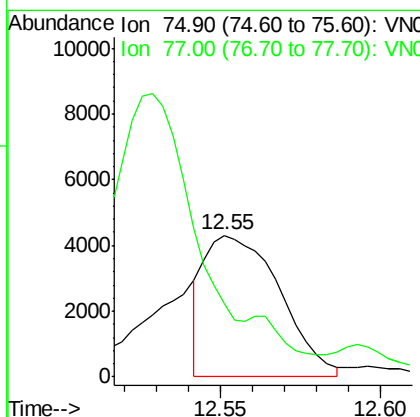
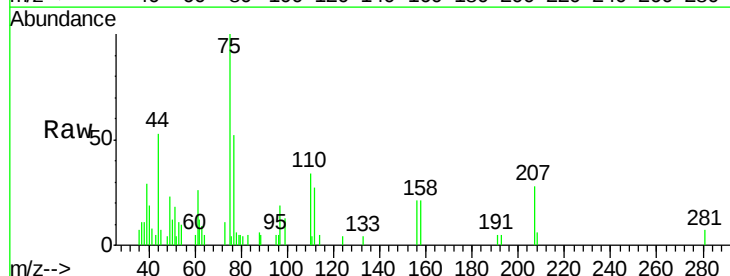
RT: 12.55 min Scan# 3409

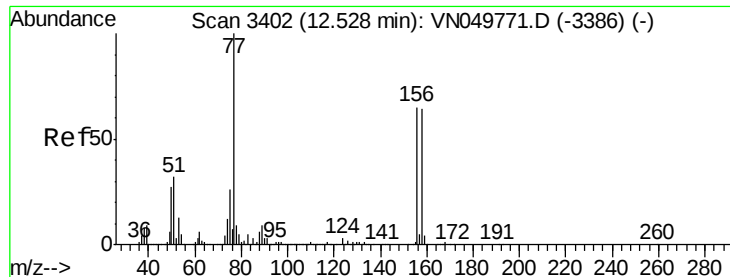
Delta R.T. -0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Tgt Ion:	75	Resp:	7107
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 0.76 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:156 Resp: 10567

Ion Ratio Lower Upper

156 100

77 156.0 90.2 270.6

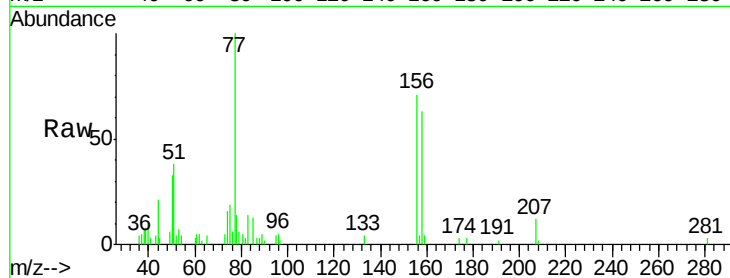
158 95.0 49.1 147.3

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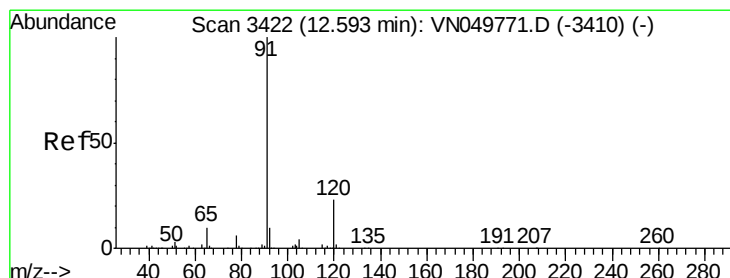
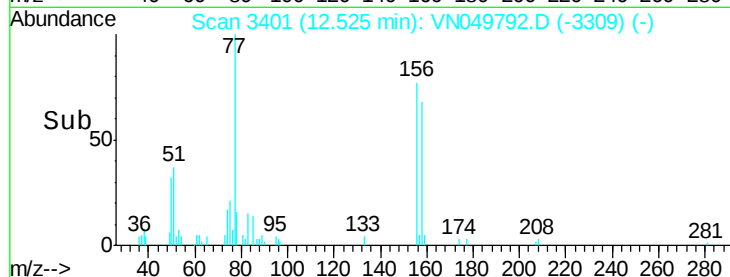
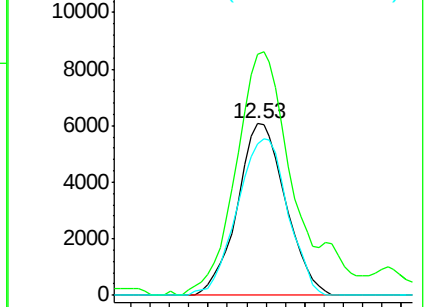
7/16/2018 11:25:25 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 0.61 ug/l

RT: 12.59 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN049792.D

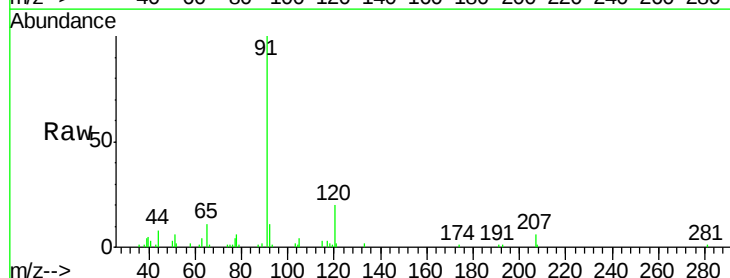
Acq: 13 Jul 2018 13:06

Tgt Ion: 91 Resp: 36421

Ion Ratio Lower Upper

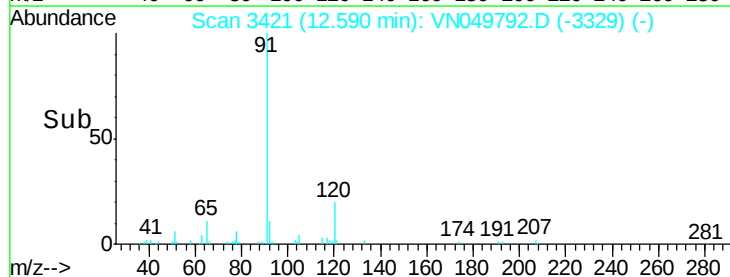
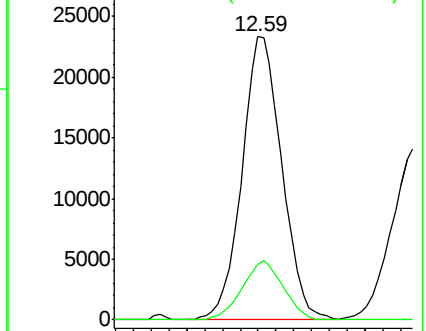
91 100

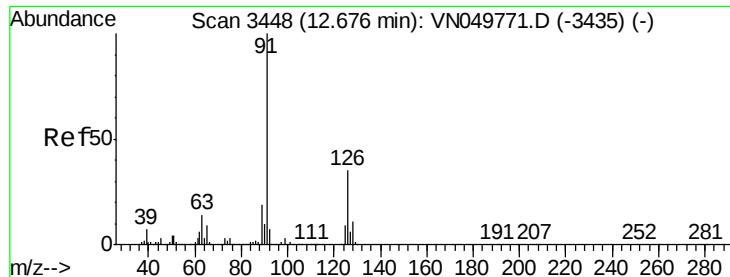
120 21.3 11.5 34.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 0.65 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion: 91 Resp: 23657

Ion Ratio Lower Upper

91 100

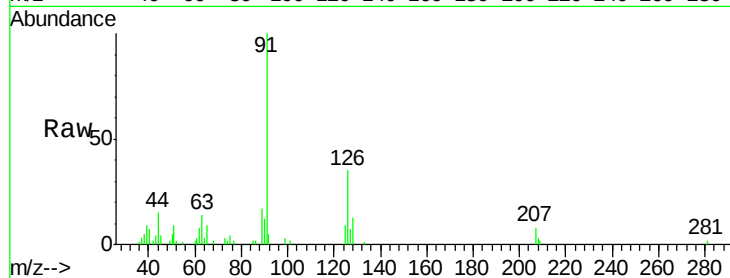
126 36.6 17.5 52.5

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Abundance Ion 91.00 (90.70 to 91.70): VN049771.D (-3435) (-)

Ion 125.90 (125.60 to 126.60): VN049771.D (-3435) (-)

25000

20000

15000

10000

5000

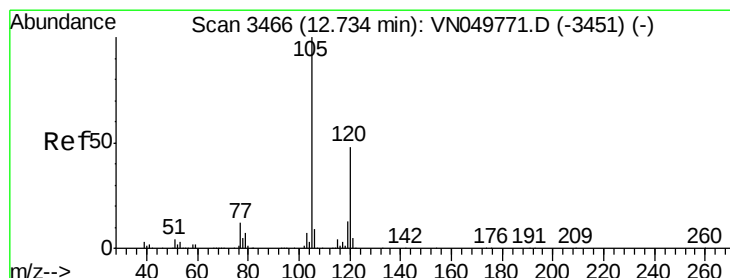
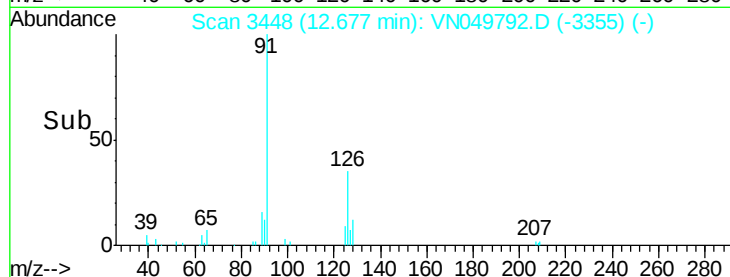
0

12.60

12.65

12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.58 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN049792.D

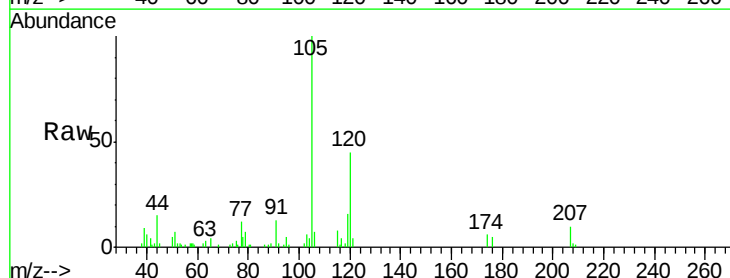
Acq: 13 Jul 2018 13:06

Tgt Ion: 105 Resp: 24128

Ion Ratio Lower Upper

105 100

120 45.0 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): VN049771.D (-3451) (-)

Ion 120.00 (119.70 to 120.70): VN049771.D (-3451) (-)

15000

10000

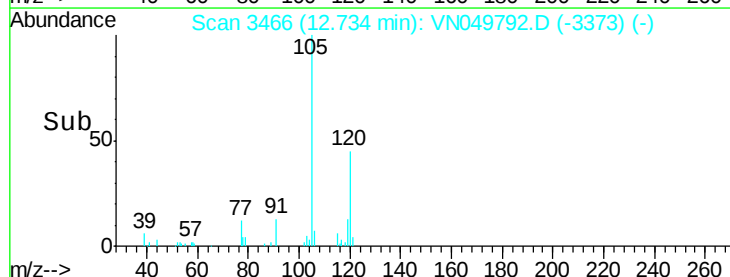
5000

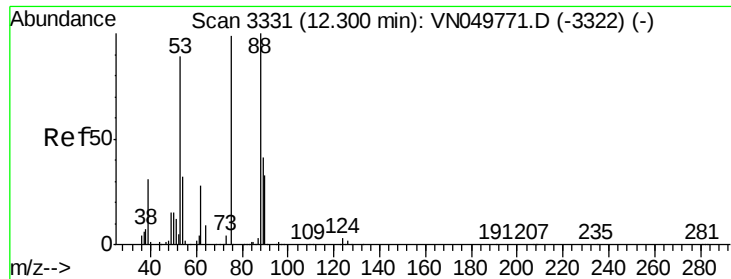
0

12.70

12.75

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 0.50 ug/l m

RT: 12.30 min Scan# 3331

Delta R.T. 0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Instrument :

MSVOA_N

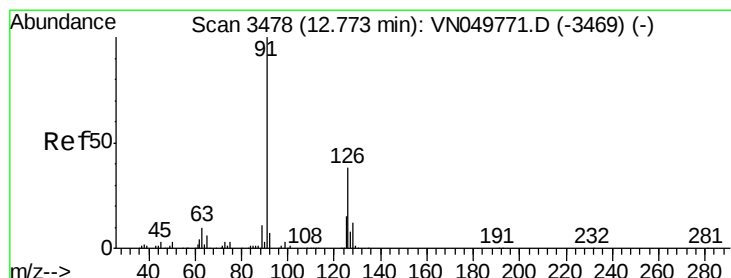
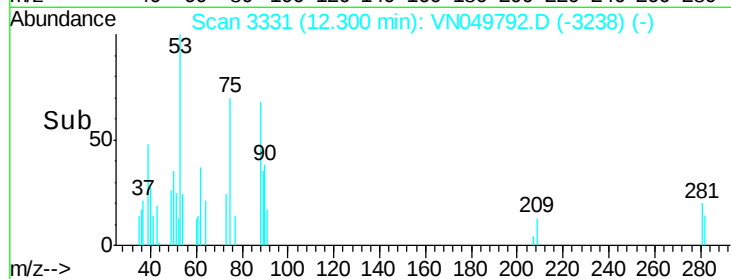
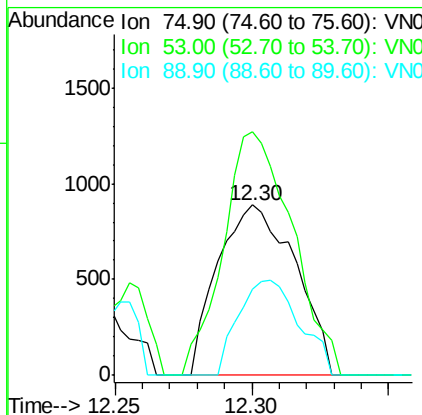
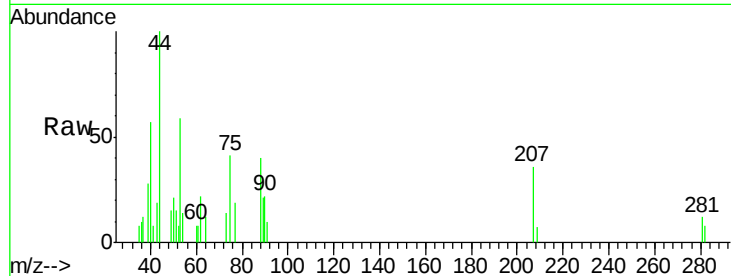
ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:	75	Resp:	1753
Ion	Ratio	Lower	Upper
75	100		
53	34.3	73.9	110.9#
89	3.9	35.9	53.9#

Manual Integrations
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7/16/2018 11:25:25 AM



#82

4-Chlorotoluene

Concen: 0.60 ug/l

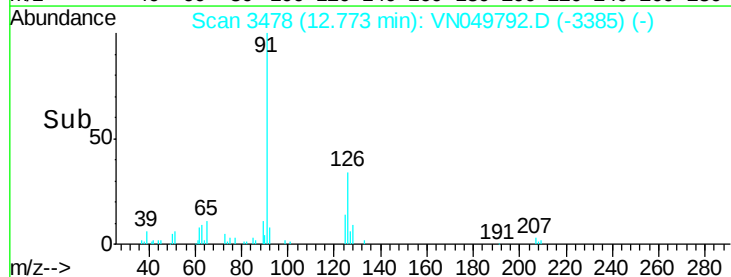
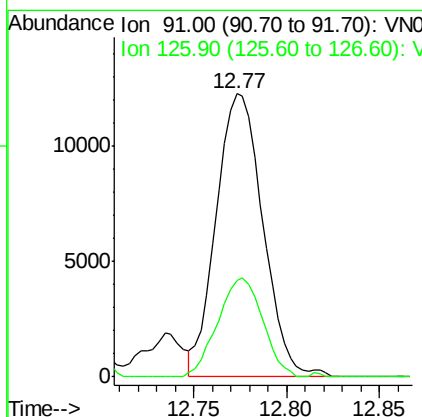
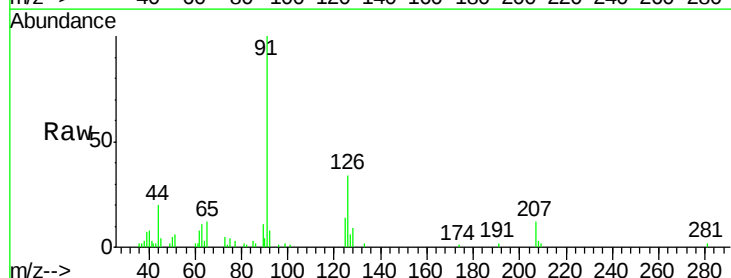
RT: 12.77 min Scan# 3478

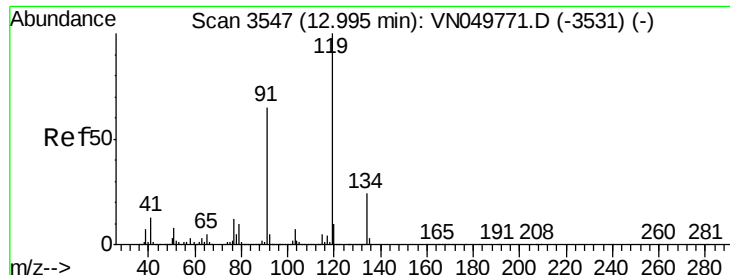
Delta R.T. 0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Tgt Ion:	91	Resp:	21519
Ion	Ratio	Lower	Upper
91	100		
126	33.4	17.2	51.6





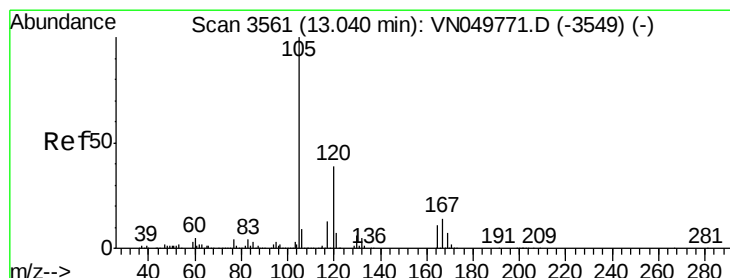
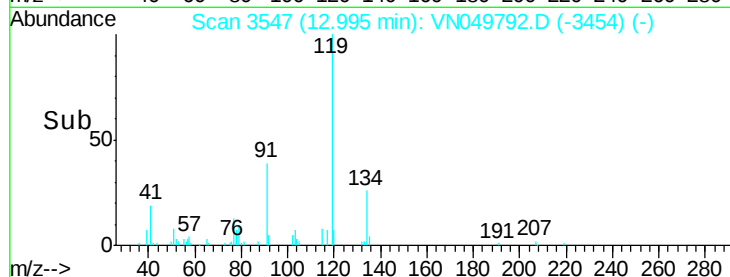
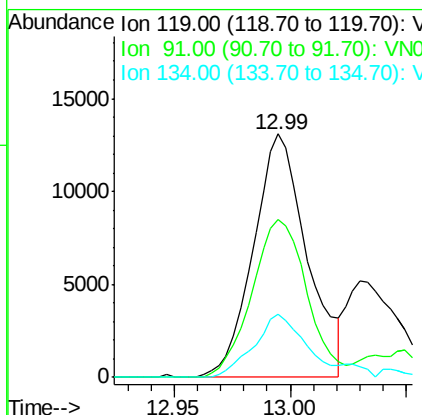
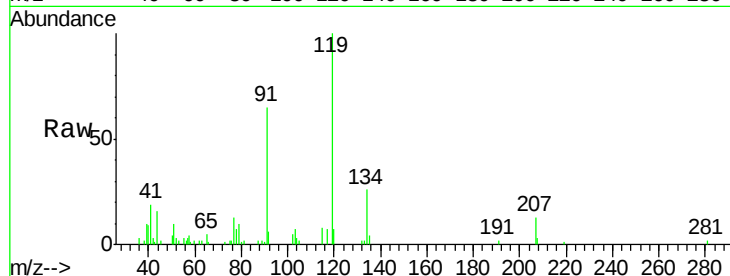
#83
tert-Butylbenzene
Concen: 0.57 ug/l
RT: 12.99 min Scan# 3547
Delta R.T. 0.00 min
Lab File: VN049792.D
Acq: 13 Jul 2018 13:06

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
119	100		
91	66.3	32.0	96.2
134	24.8	12.8	38.4

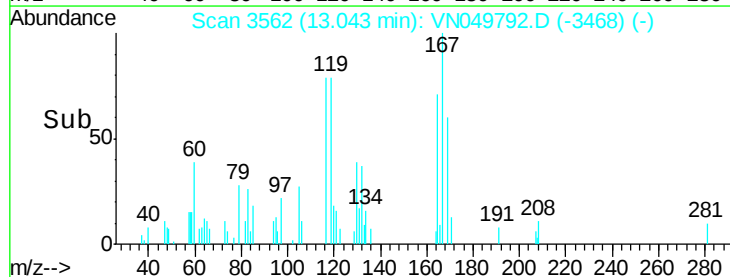
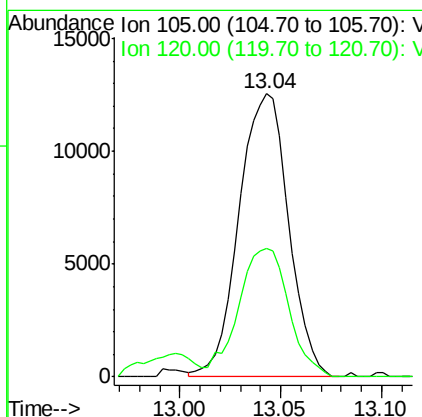
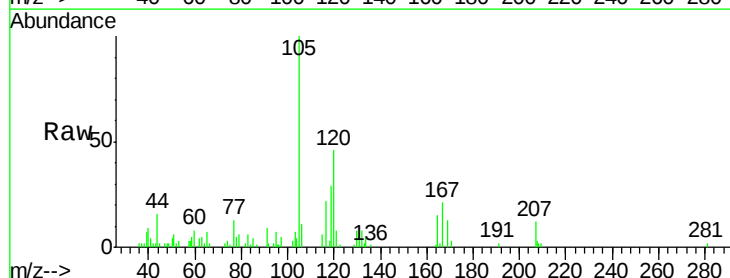
Manual Integrations
APPROVED

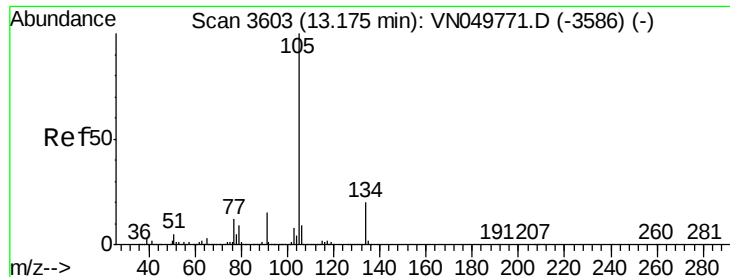
MMDadoda
7/16/2018 11:25:25 AM



#84
1,2,4-Trimethylbenzene
Concen: 0.51 ug/l
RT: 13.04 min Scan# 3562
Delta R.T. 0.00 min
Lab File: VN049792.D
Acq: 13 Jul 2018 13:06

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.2	22.7	68.1





#85

sec-Butylbenzene

Concen: 0.55 ug/l

RT: 13.17 min Scan# 3602

Delta R.T. -0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:105 Resp: 27012

Ion Ratio Lower Upper

105 100

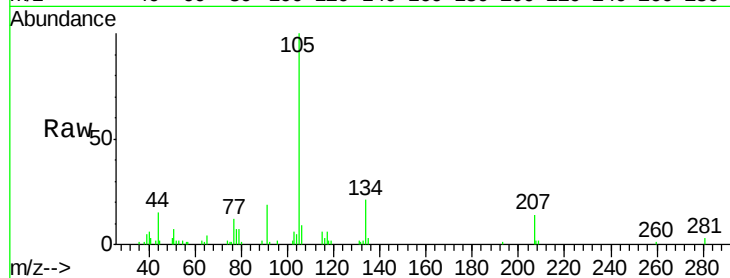
134 20.8 10.1 30.1

Manual Integrations

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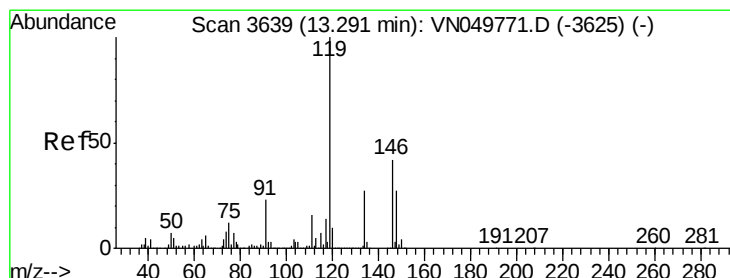
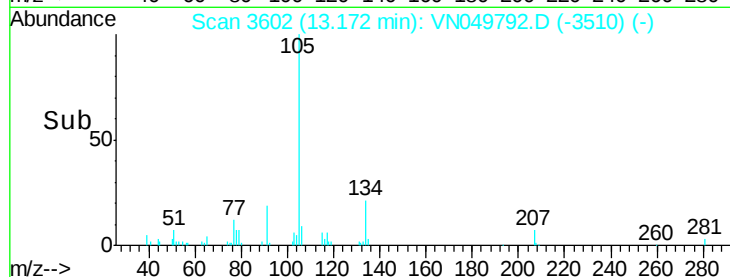
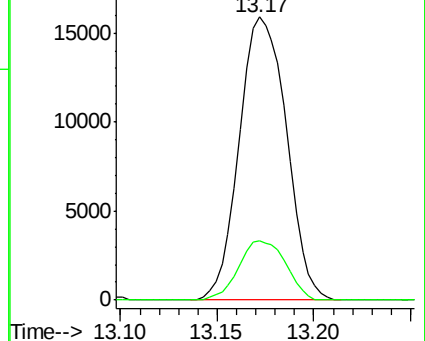
MMDadoda

7/16/2018 11:25:25 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 0.48 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

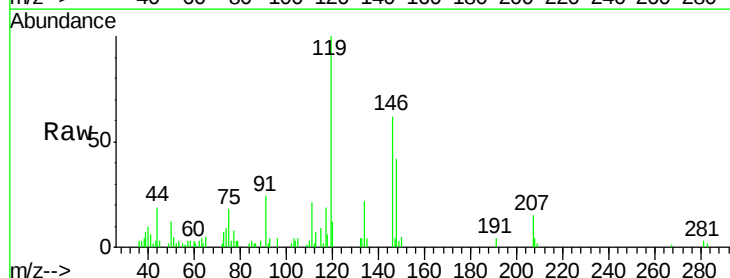
Tgt Ion:119 Resp: 20007

Ion Ratio Lower Upper

119 100

134 24.6 13.3 39.9

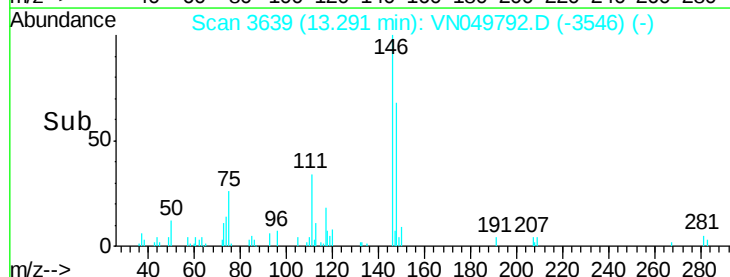
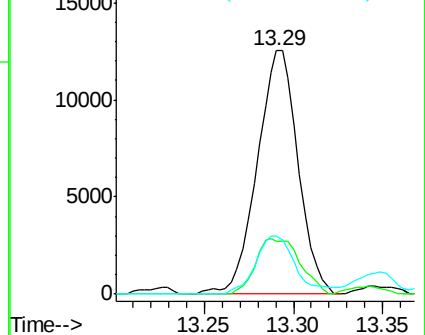
91 23.6 11.4 34.1

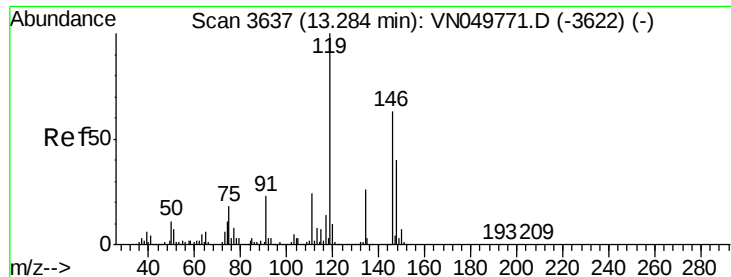


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





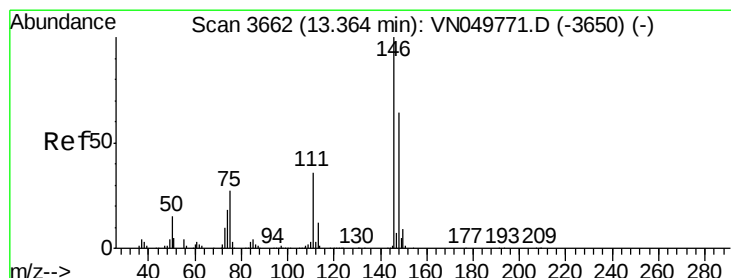
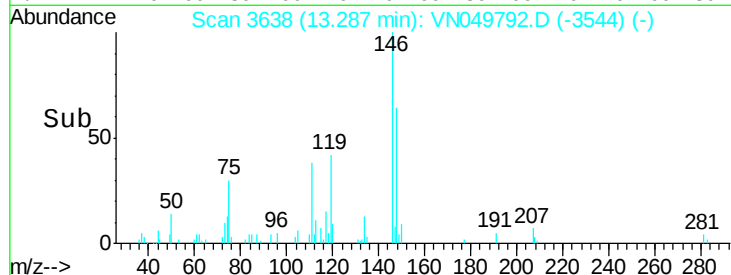
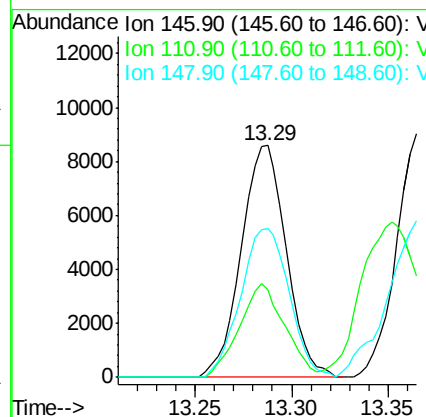
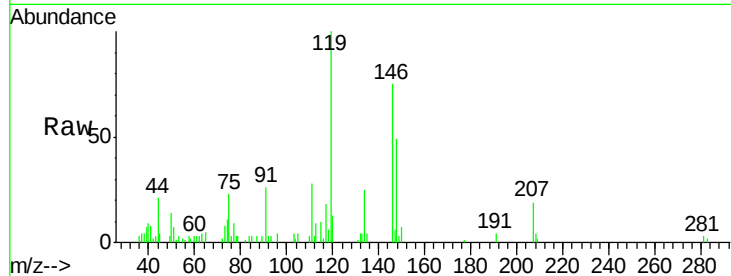
#87
 1,3-Dichlorobenzene
 Concen: 0.58 ug/l
 RT: 13.29 min Scan# 3638
 Delta R.T. 0.00 min
 Lab File: VN049792.D
 Acq: 13 Jul 2018 13:06

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.5	19.0	57.0
148	69.1	32.5	97.5

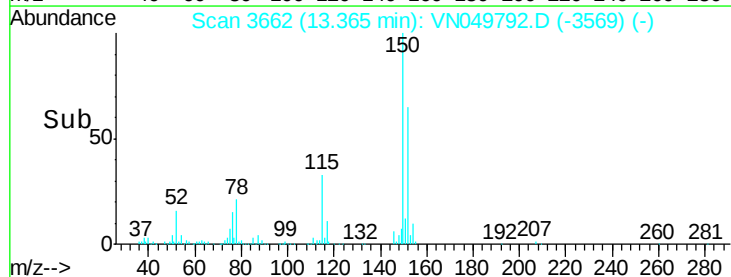
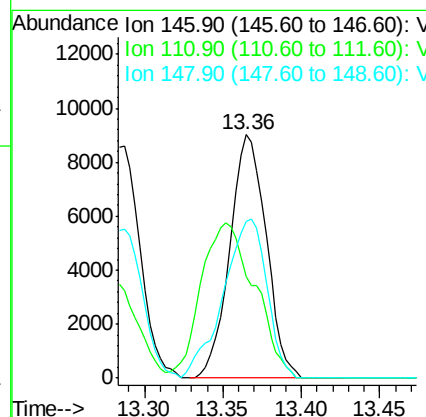
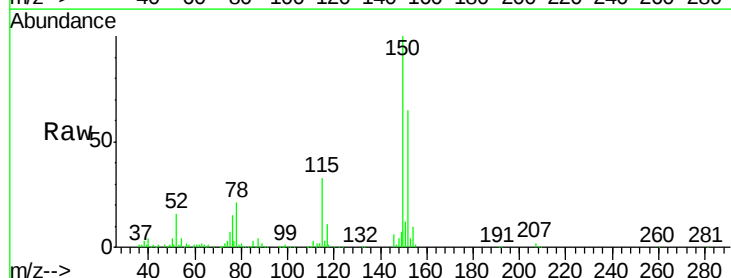
Manual Integrations
 APPROVED

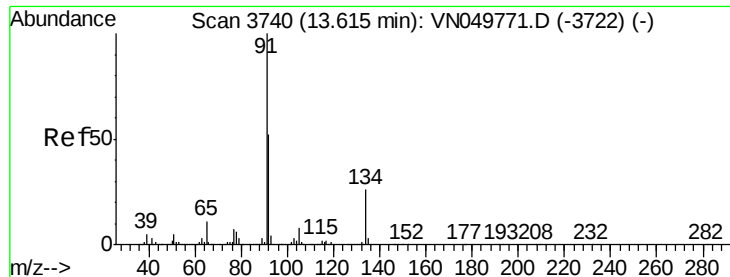
MMDadoda
 7/16/2018 11:25:25 AM



#88
 1,4-Dichlorobenzene
 Concen: 0.62 ug/l m
 RT: 13.36 min Scan# 3662
 Delta R.T. 0.00 min
 Lab File: VN049792.D
 Acq: 13 Jul 2018 13:06

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.1	18.9	56.5
148	66.7	32.1	96.3





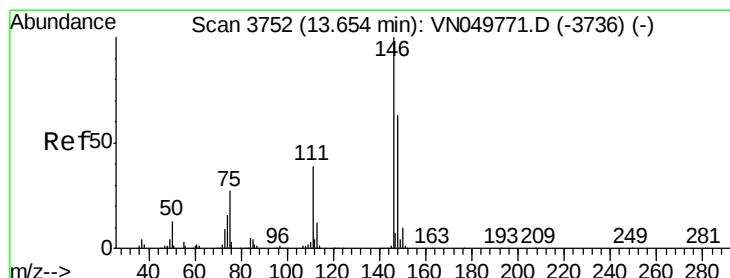
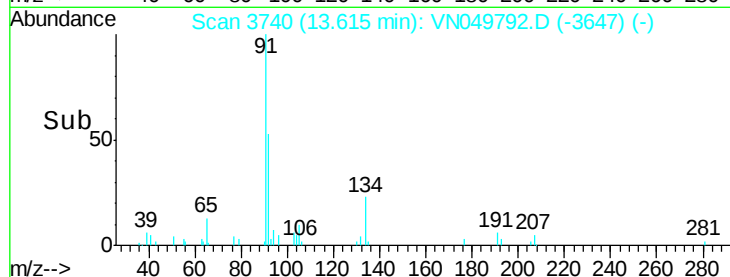
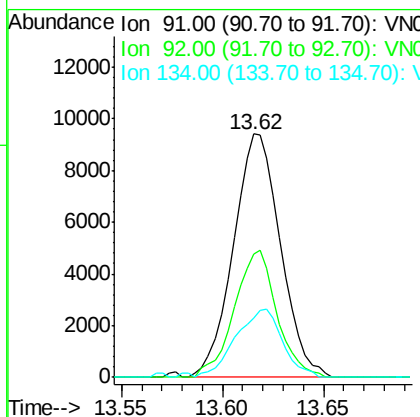
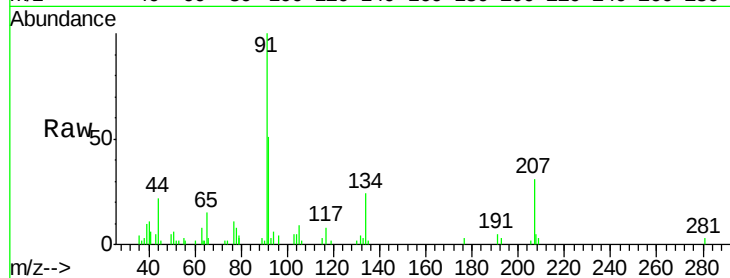
#89
n-Butylbenzene
Concen: 0.45 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. 0.00 min
Lab File: VN049792.D
Acq: 13 Jul 2018 13:06

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
91	100		
92	47.3	25.8	77.3
134	27.9	13.0	38.9

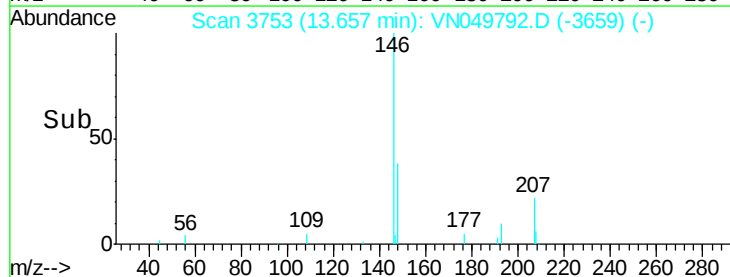
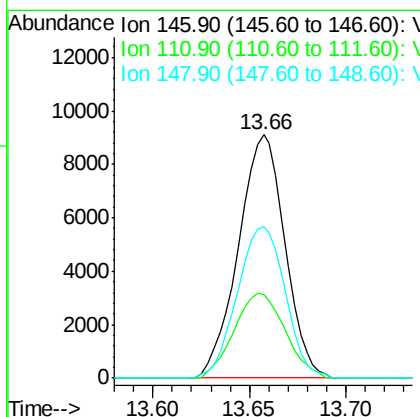
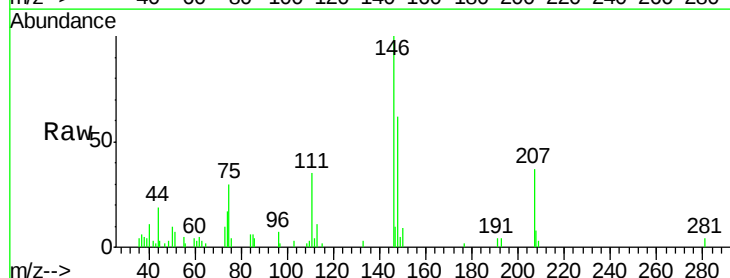
Manual Integrations
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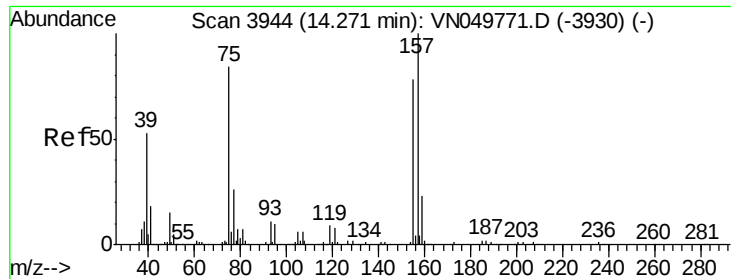
MMDadoda
7/16/2018 11:25:25 AM



#91
1,2-Dichlorobenzene
Concen: 0.65 ug/l
RT: 13.66 min Scan# 3753
Delta R.T. 0.00 min
Lab File: VN049792.D
Acq: 13 Jul 2018 13:06

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.0	19.7	59.1
148	63.9	32.0	96.2





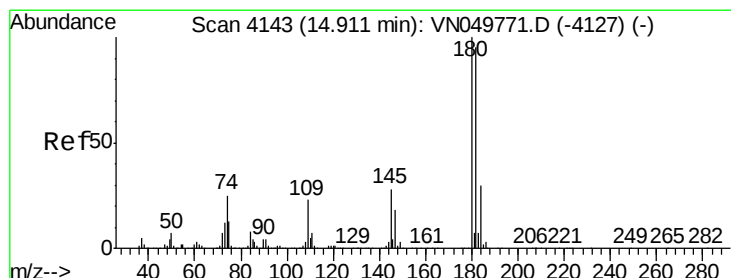
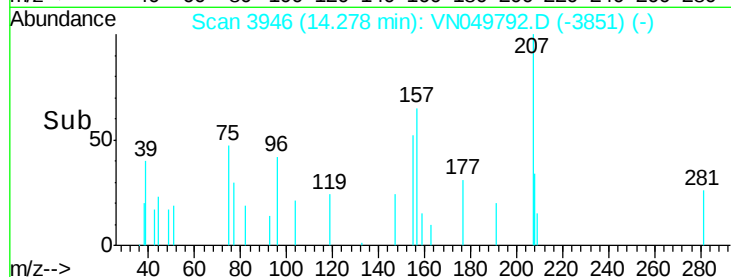
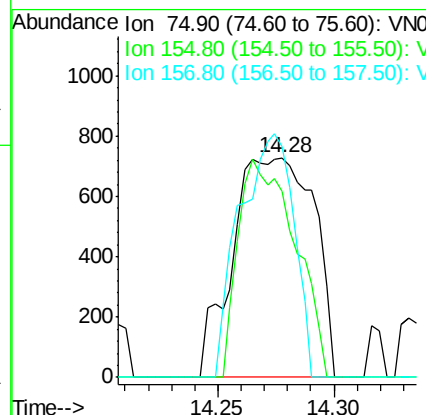
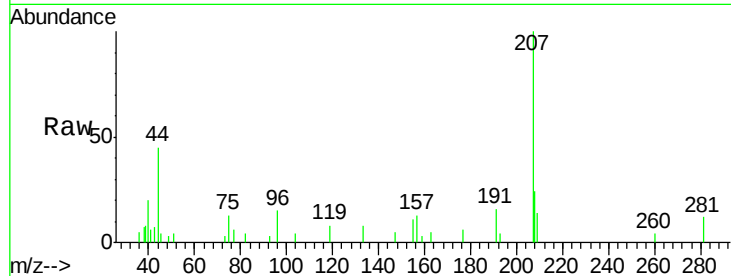
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.47 ug/l
 RT: 14.28 min Scan# 3946
 Delta R.T. 0.01 min
 Lab File: VN049792.D
 Acq: 13 Jul 2018 13:06

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
75	100		
155	69.4	45.7	137.1
157	73.9	56.9	170.7

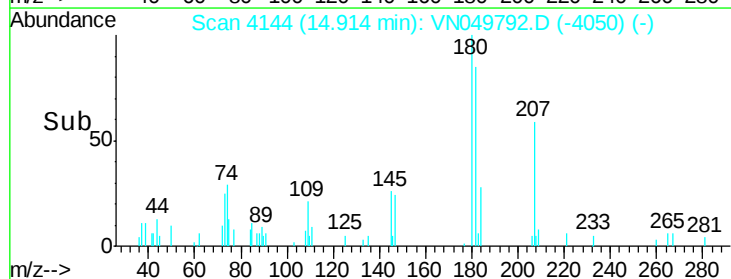
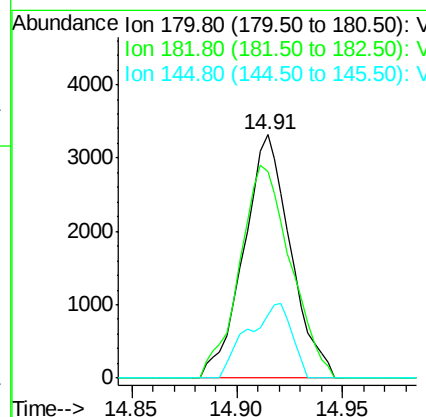
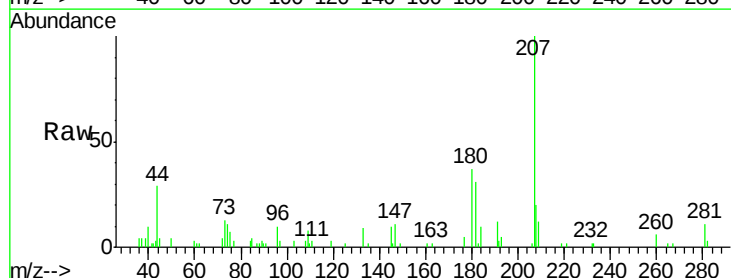
Manual Integrations
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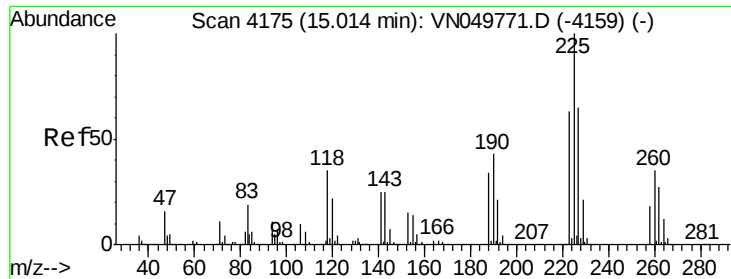
MMDadoda
 7/16/2018 11:25:25 AM



#93
 1,2,4-Trichlorobenzene
 Concen: 3.26 ug/l
 RT: 14.91 min Scan# 4144
 Delta R.T. 0.00 min
 Lab File: VN049792.D
 Acq: 13 Jul 2018 13:06

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.3	141.9
145	28.9	14.4	43.0





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4174

Delta R.T. -0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Instrument :

MSVOA_N

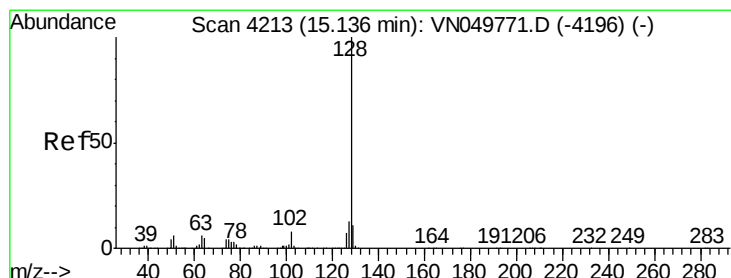
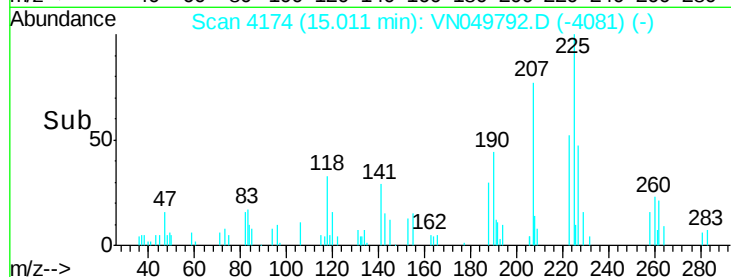
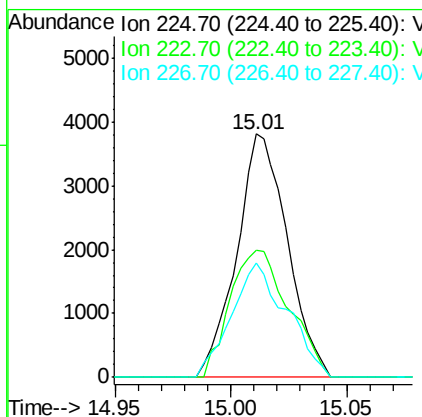
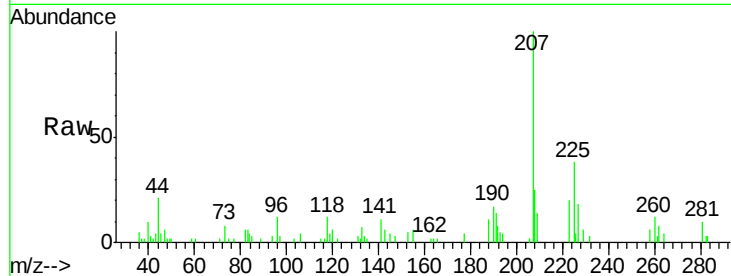
ClientSampleId :

LOD-MDL-WATER-01-QT3-2018

Tot Ion:	225	Resp:	5796
Ion Ratio	Lower	Upper	
225	100		
223	60.6	30.9	92.7
227	51.3	31.8	95.4

Manual Integrations
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#95

Naphthalene

Concen: 4.34 ug/l

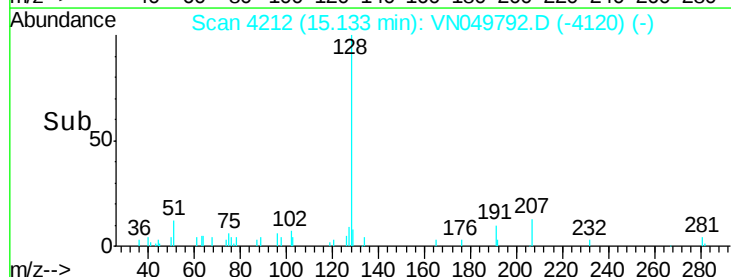
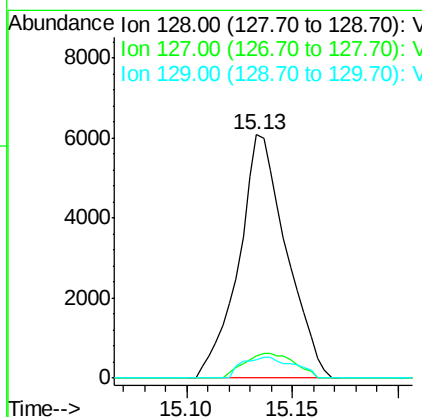
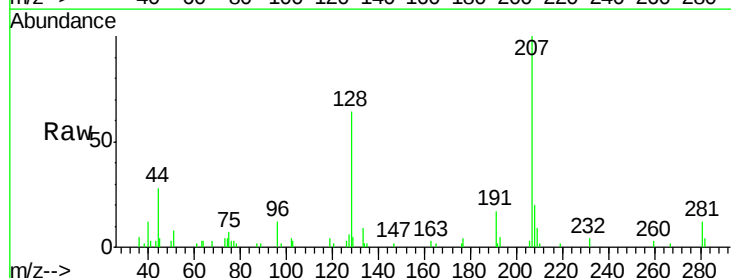
RT: 15.13 min Scan# 4212

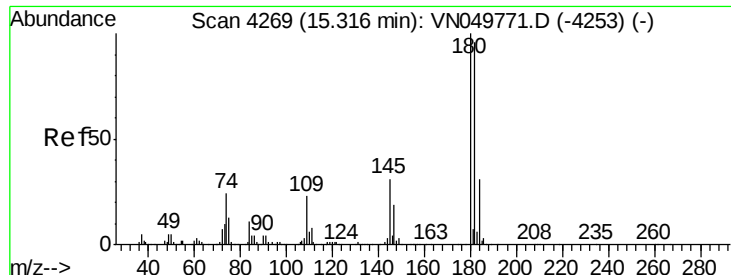
Delta R.T. -0.00 min

Lab File: VN049792.D

Acq: 13 Jul 2018 13:06

Tgt Ion:	128	Resp:	9534
Ion Ratio	Lower	Upper	
128	100		
127	10.7	10.4	15.6
129	9.3	8.6	13.0





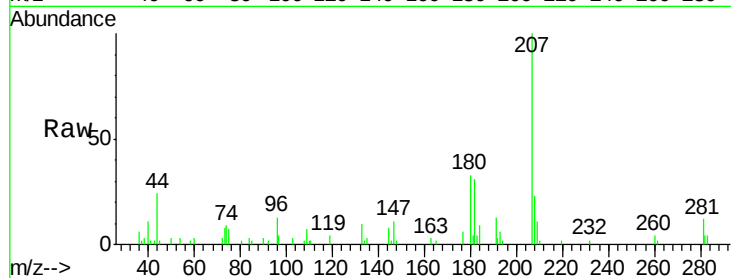
#96
 1,2,3-Trichlorobenzene
 Concen: 0.52 ug/l
 RT: 15.32 min Scan# 4270
 Delta R.T. 0.00 min
 Lab File: VN049792.D
 Acq: 13 Jul 2018 13:06

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2018

Tot Ion	Ratio	Lower	Upper
180	100		
182	86.0	47.4	142.2
145	27.6	15.2	45.6

Manual Integrations
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Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

