

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101218\
 Data File : VN051834.D
 Acq On : 12 Oct 2018 15:50
 Operator : MD\SY
 Sample : J5164-08 10ppb
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

Manual Integrations
 APPROVED

MMDadoda
 10/15/2018 11:27:59 AM

Quant Time: Oct 13 03:31:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N101218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 12 10:23:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	129602	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	738893	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	643005	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	252122	31.97	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	106.57%
60) 4-Bromofluorobenzene	12.40	95	263153	28.38	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.60%
63) Toluene-d8	10.09	98	861369	30.85	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.83%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	52511	10.43	ug/l	99
3) Chloromethane	2.06	50	59436	11.17	ug/l	99
4) Vinyl Chloride	2.18	62	87604	11.02	ug/l	99
5) Bromomethane	2.56	94	81580	11.62	ug/l	90
6) Chloroethane	2.70	64	66442	11.60	ug/l	96
7) Trichlorofluoromethane	3.01	101	130425	11.51	ug/l	94
8) Diethyl Ether	3.41	74	36769	11.15	ug/l	75
9) 1,1,2-Trichlorotrifluoroet	3.76	101	72869	11.29	ug/l #	41
10) 1,1-Dichloroethene	3.73	96	66196	11.09	ug/l	83
11) Methyl Iodide	3.95	142	84841	9.78	ug/l	96
12) Methyl Acetate	4.33	43	44653	12.05	ug/l	99
13) Acrolein	3.62	56	17783	72.84	ug/l	97
14) Acrylonitrile	4.99	53	89734	54.19	ug/l #	61
15) Acetone	3.82	58	20710	50.59	ug/l	96
16) Carbon Disulfide	4.05	76	155388	9.92	ug/l	99
17) Allyl chloride	4.32	41	71216	10.05	ug/l	83
18) Methylene Chloride	4.55	84	75685	11.34	ug/l	90
19) trans-1,2-Dichloroethene	5.04	96	74648	10.96	ug/l #	81
20) Diisopropyl ether	5.95	45	169145	10.72	ug/l #	87
21) 1,1-Dichloroethane	5.85	63	121369	11.01	ug/l #	96
22) cis-1,2-Dichloroethene	6.83	96	87324	10.91	ug/l #	80
23) tert-Butyl Alcohol	4.80	59	23149	53.08	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	191603	11.15	ug/l #	88
25) Chloroform	7.37	83	141462	10.82	ug/l	94
26) Cyclohexane	7.65	56	101033	10.81	ug/l #	74
29) 1,1-Dichloropropene	7.79	75	98564	10.35	ug/l	94
30) 2-Butanone	6.84	43	104721	52.60	ug/l #	90
31) 2,2-Dichloropropane	6.83	77	106272	9.48	ug/l #	78
32) 1,1,1-Trichloroethane	7.57	97	128560	10.18	ug/l	95
33) Carbon Tetrachloride	7.77	117	115497	10.11	ug/l	95
34) Benzene	8.04	78	300493	10.67	ug/l #	76
35) Methacrylonitrile	7.18	41	26489m	10.13	ug/l	
36) 1,2-Dichloroethane	8.13	62	99375	11.01	ug/l	98
37) Trichloroethene	8.84	130	91221	10.43	ug/l	96
38) Methylcyclohexane	9.08	83	123637	10.12	ug/l	82
39) 1,2-Dichloropropane	9.12	63	70080	10.56	ug/l	94
40) Dibromomethane	9.21	93	52852	10.73	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	99890	9.82	ug/l	94
42) Vinyl Acetate	5.90	43	585783	52.27	ug/l #	91
43) Ethyl Acetate	6.94	43	39304	9.09	ug/l	99
44) Isopropyl Acetate	8.17	43	90051	10.43	ug/l	99
45) 1,4-Dioxane	9.20	88	14492	209.04	ug/l #	70
46) Methyl methacrylate	9.20	41	42111	10.57	ug/l	77
47) n-amyl Acetate	12.07	43	63393m	8.77	ug/l	
48) t-1,3-Dichloropropene	10.38	75	93018	9.38	ug/l	97
49) cis-1,3-Dichloropropene	9.84	75	105445	9.64	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	71594	10.52	ug/l	95
51) Ethyl methacrylate	10.43	69	78885	10.13	ug/l	82
52) 1,3-Dichloropropane	10.71	76	109528	10.43	ug/l	100
53) Dibromochloromethane	10.90	129	77813	9.25	ug/l	97
54) 1,2-Dibromoethane	11.01	107	72345	10.13	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	163810	49.19	ug/l #	94
56) Bromoform	12.13	173	45929	8.27	ug/l #	91
58) 4-Methyl-2-Pentanone	9.99	43	237902	55.29	ug/l #	88
59) 2-Hexanone	10.75	43	144572	49.80	ug/l #	91
61) Tetrachloroethene	10.63	164	91881	11.17	ug/l	96
62) Toluene	10.16	91	340792	10.67	ug/l	96
64) Chlorobenzene	11.43	112	216222	10.34	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	80534	10.03	ug/l	98
66) Ethyl Benzene	11.51	91	369898	10.48	ug/l	99
67) m/p-Xylenes	11.62	106	292785	20.46	ug/l	100
68) o-Xylene	11.95	106	145723	10.33	ug/l	91
69) Styrene	11.97	104	208743	9.64	ug/l	97
70) Isopropylbenzene	12.25	105	390447	10.38	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	78634	10.58	ug/l	95
72) 1,2,3-Trichloropropane	12.55	75	65827m	11.26	ug/l	
73) Bromobenzene	12.53	156	88680	9.51	ug/l	86
74) n-propylbenzene	12.59	91	401926	9.93	ug/l	97
75) 2-Chlorotoluene	12.67	91	242633	10.23	ug/l	93
76) 1,3,5-Trimethylbenzene	12.73	105	309759	9.96	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	15130	7.83	ug/l	96
78) 4-Chlorotoluene	12.77	91	222851	9.56	ug/l	93
79) tert-butylbenzene	12.99	119	292698	10.23	ug/l	94
80) 1,2,4-Trimethylbenzene	13.04	105	309723	9.96	ug/l	98
81) sec-Butylbenzene	13.17	105	367338	9.81	ug/l	97
82) p-Isopropyltoluene	13.29	119	320420	9.57	ug/l	96
83) 1,3-Dichlorobenzene	13.28	146	147212	8.95	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	131262	8.48	ug/l	98
85) n-Butylbenzene	13.62	91	224288	8.88	ug/l	96
86) Hexachloroethane	13.88	117	50030	8.66	ug/l	88
87) 1,2-Dichlorobenzene	13.65	146	146628	9.21	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.27	75	10718	9.66	ug/l #	90
89) 1,2,4-Trichlorobenzene	14.91	180	45515	12.06	ug/l	96
90) Hexachlorobutadiene	15.01	225	49591	9.67	ug/l	97
91) Naphthalene	15.13	128	93324	12.82	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	50398	6.96	ug/l	91

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

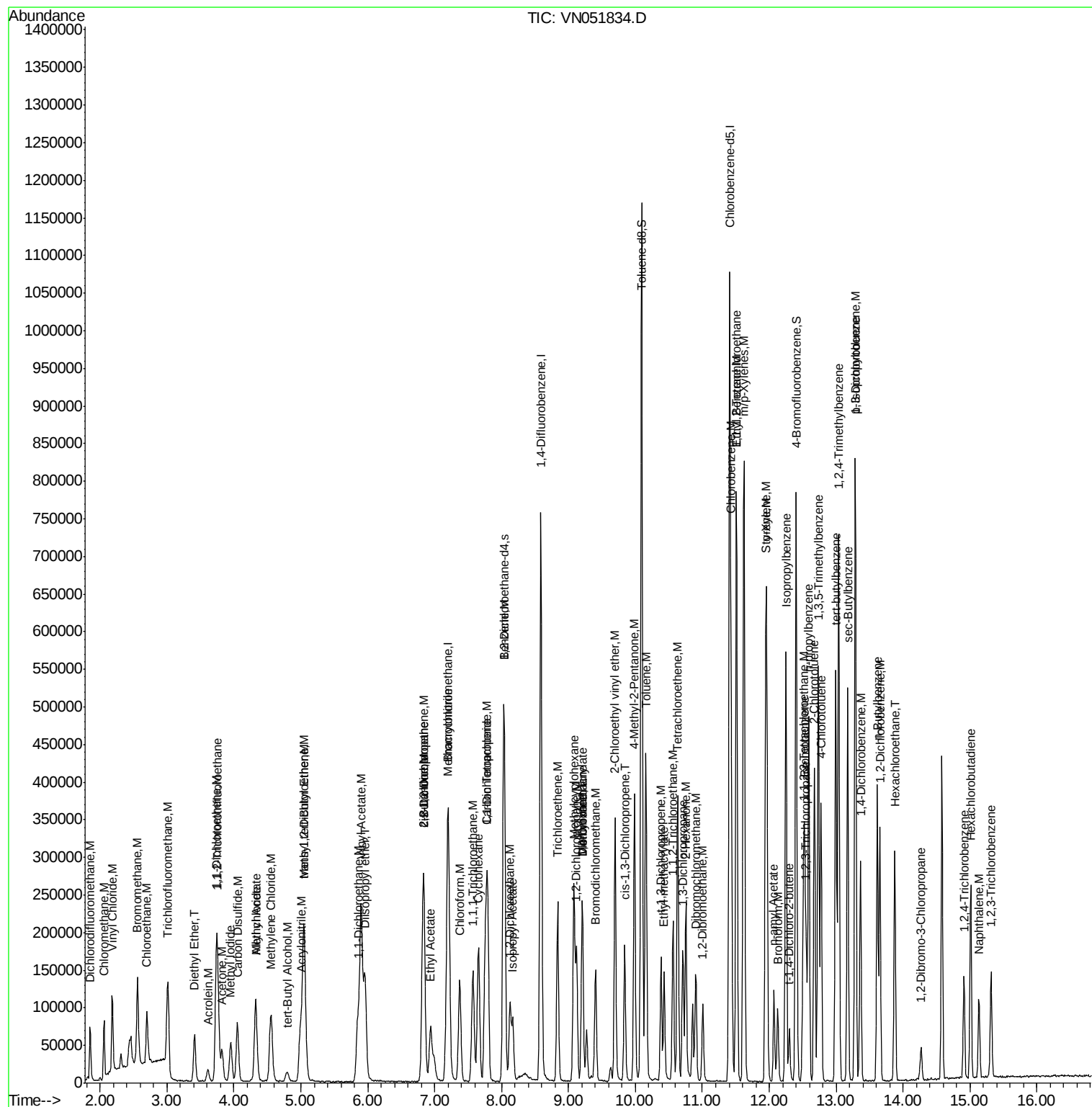
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101218\
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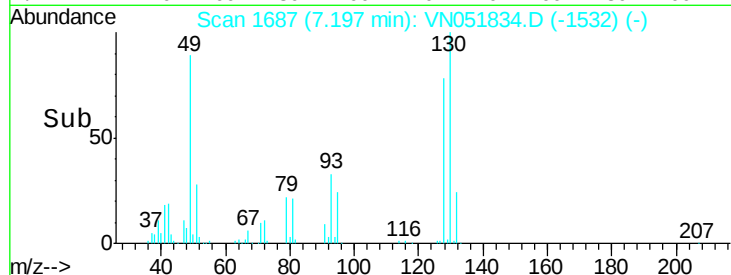
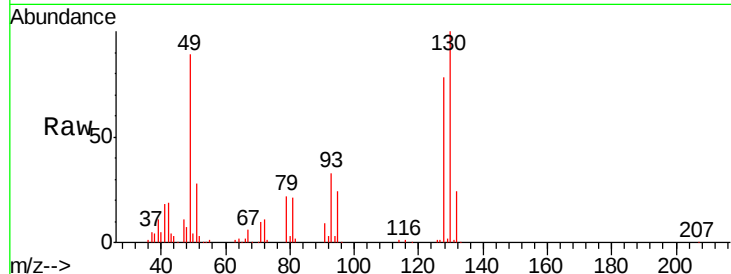
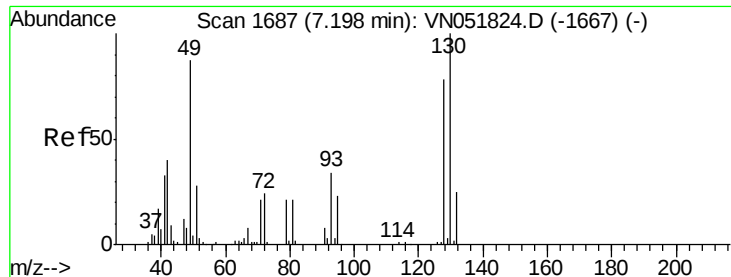
Instrument :
MSVOA_N
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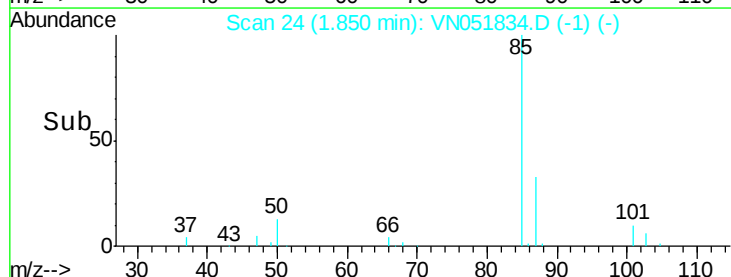
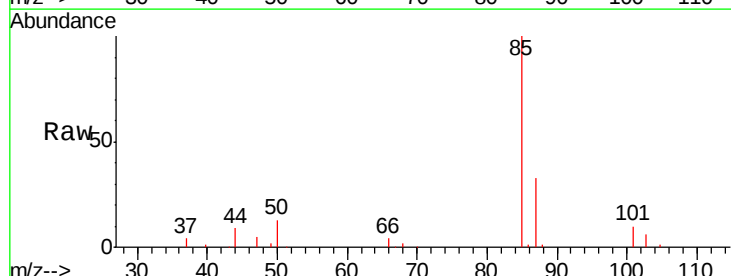
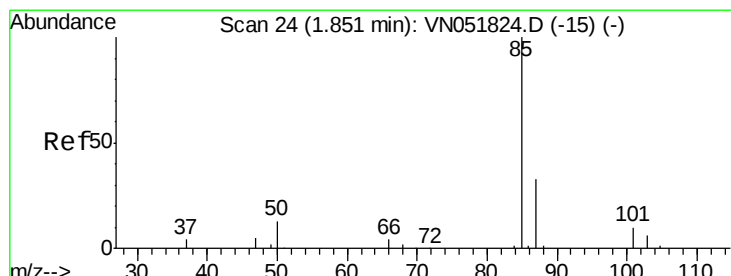
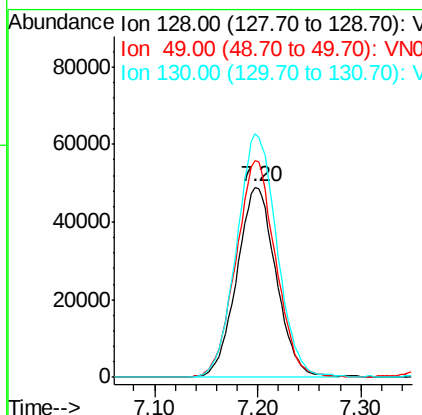
#1
Bromochloromethane
Concen: 30.00 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	129602		
49	115.9	0.0	403.3	
130	130.7	0.0	326.0	

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

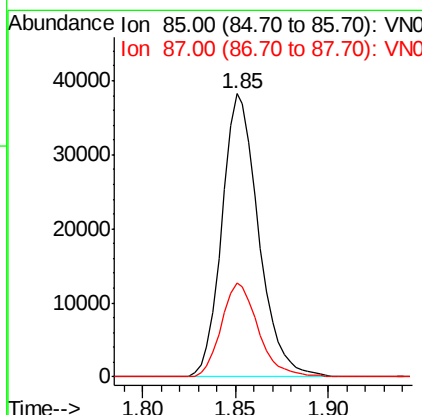
Manual Integrations
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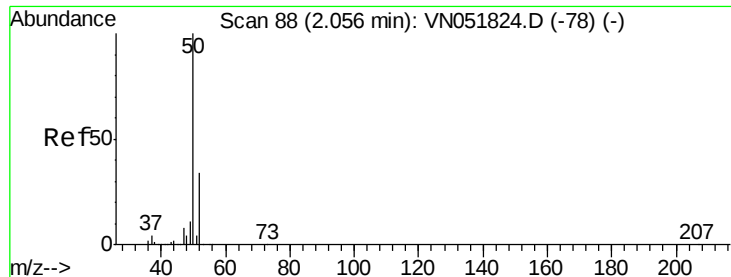
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#2
Dichlorodifluoromethane
Concen: 10.43 ug/l
RT: 1.85 min Scan# 24
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Tgt Ion	Ratio	Resp	Lower	Upper
85	100	52511		
87	33.1	16.3	48.8	





#3

Chloromethane

Concen: 11.17 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

Tgt Ion: 50 Resp: 59436

Ion Ratio Lower Upper

50 100

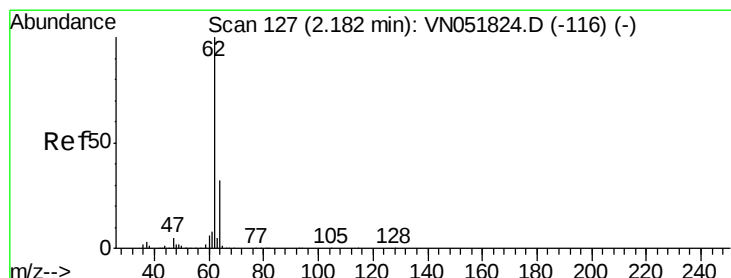
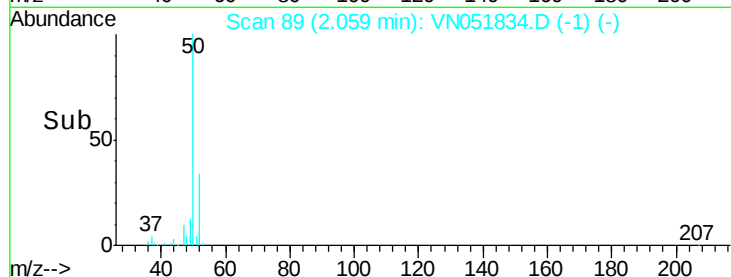
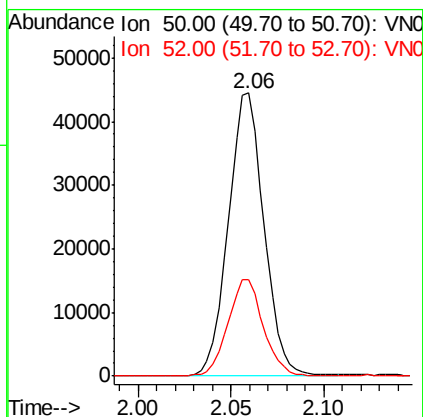
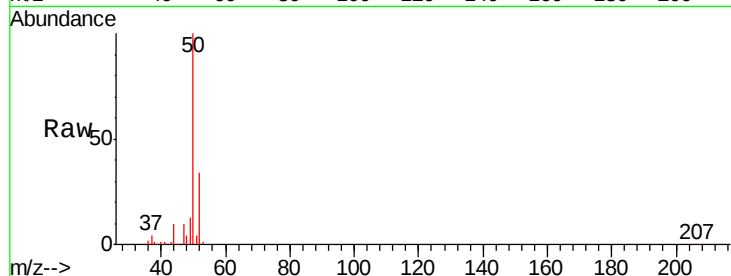
52 34.3 27.2 40.8

Manual Integrations

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#4

Vinyl Chloride

Concen: 11.02 ug/l

RT: 2.18 min Scan# 127

Delta R.T. -0.00 min

Lab File: VN051834.D

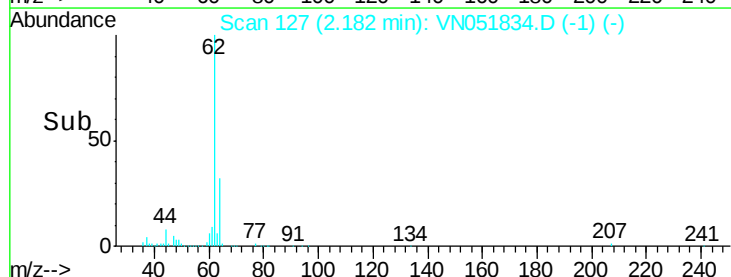
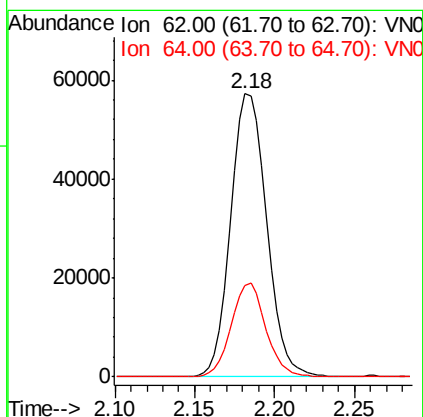
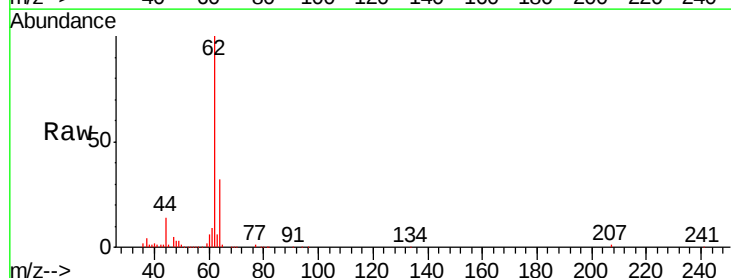
Acq: 12 Oct 2018 15:50

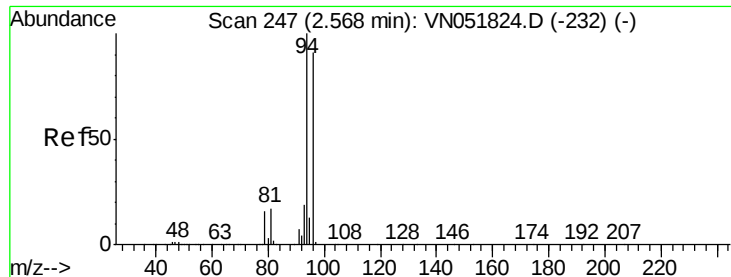
Tgt Ion: 62 Resp: 87604

Ion Ratio Lower Upper

62 100

64 32.5 25.4 38.2





#5

Bromomethane

Concen: 11.62 ug/l

RT: 2.56 min Scan# 244

Delta R.T. -0.01 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

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ClientSampleId :

LOQ-WATER-02-QT4-2018

Tgt Ion: 94 Resp: 81580

Ion Ratio Lower Upper

94 100

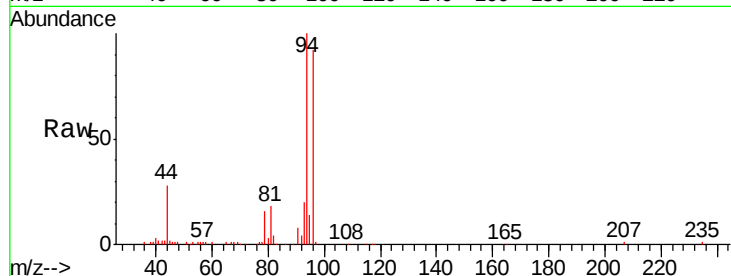
96 92.3 66.4 99.6

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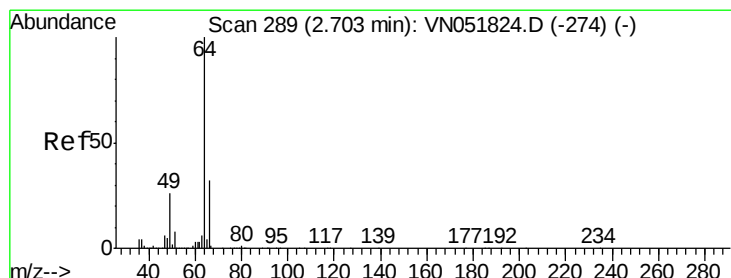
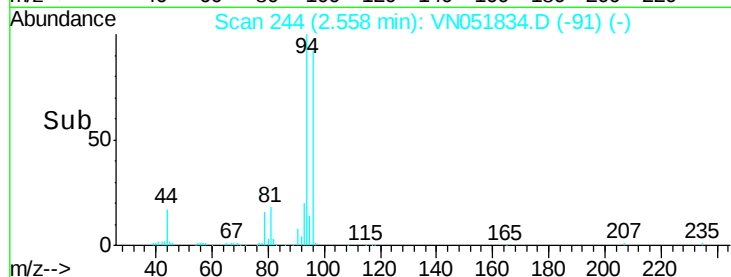
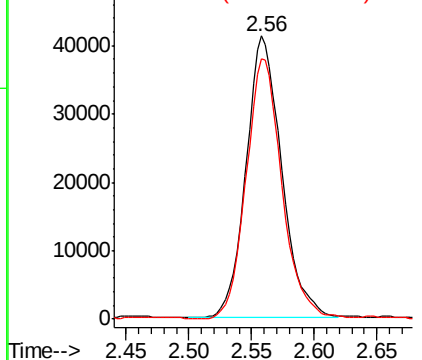
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Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 11.60 ug/l

RT: 2.70 min Scan# 288

Delta R.T. -0.00 min

Lab File: VN051834.D

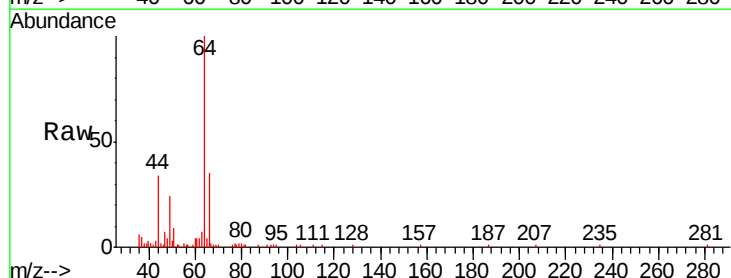
Acq: 12 Oct 2018 15:50

Tgt Ion: 64 Resp: 66442

Ion Ratio Lower Upper

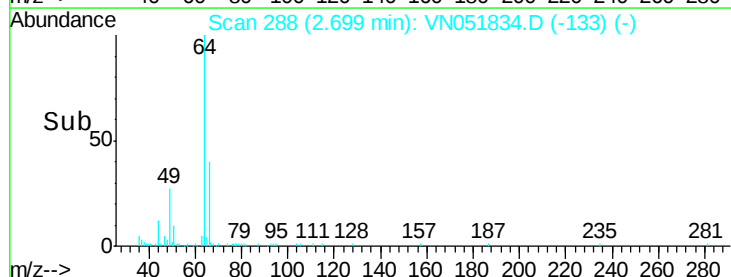
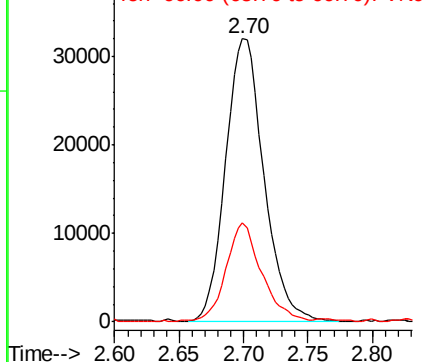
64 100

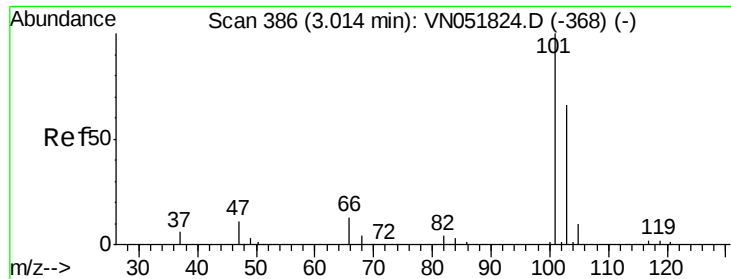
66 34.2 25.8 38.6



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

Trichlorofluoromethane

Concen: 11.51 ug/l

RT: 3.01 min Scan# 385

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Tgt Ion: 101 Resp: 130425

Ion Ratio Lower Upper

101 100

103 64.0 54.8 82.2

Instrument :

MSVOA_N

ClientSampleId :

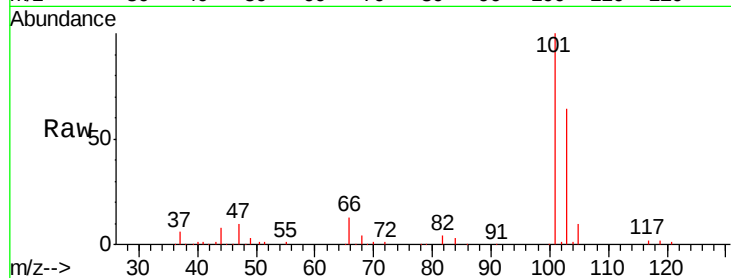
LOQ-WATER-02-QT4-2018

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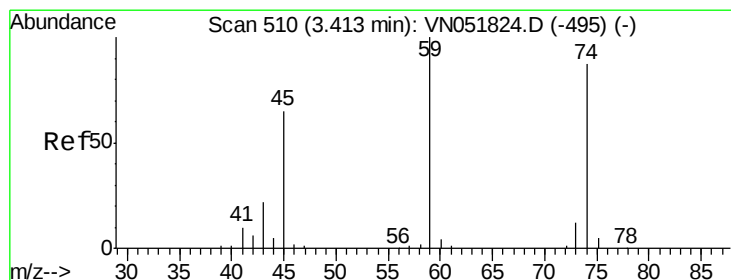
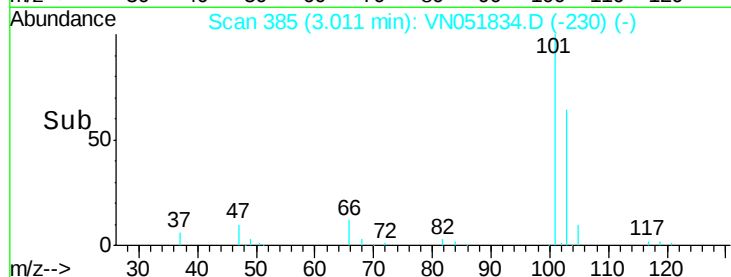
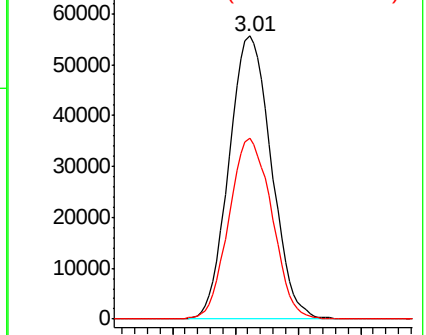
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 11.15 ug/l

RT: 3.41 min Scan# 510

Delta R.T. -0.00 min

Lab File: VN051834.D

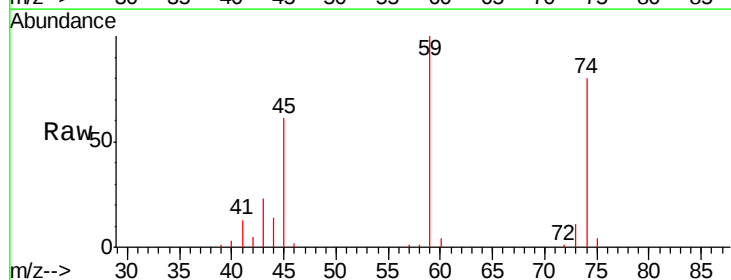
Acq: 12 Oct 2018 15:50

Tgt Ion: 74 Resp: 36769

Ion Ratio Lower Upper

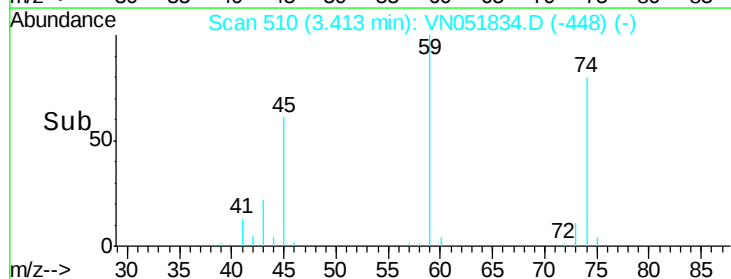
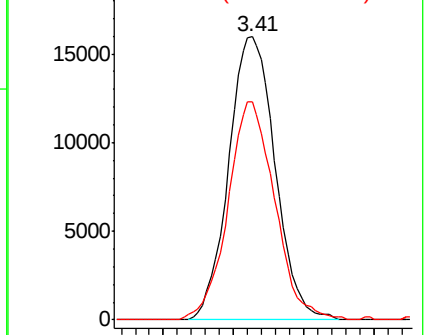
74 100

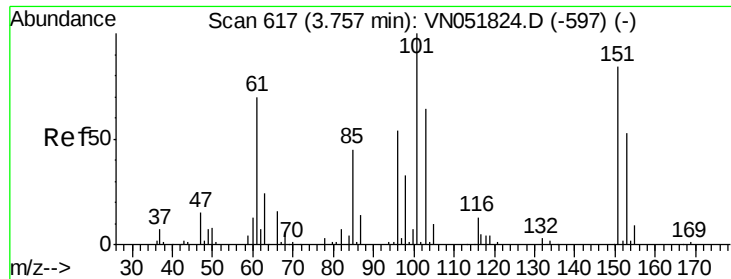
45 77.6 20.7 186.5



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO





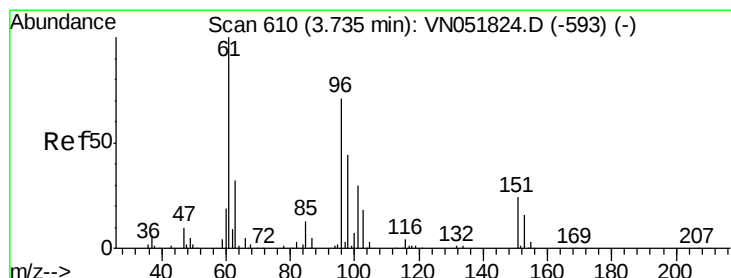
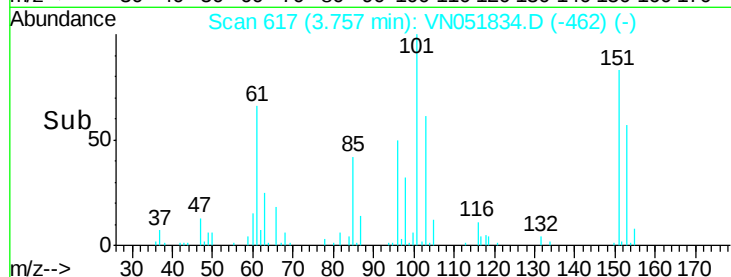
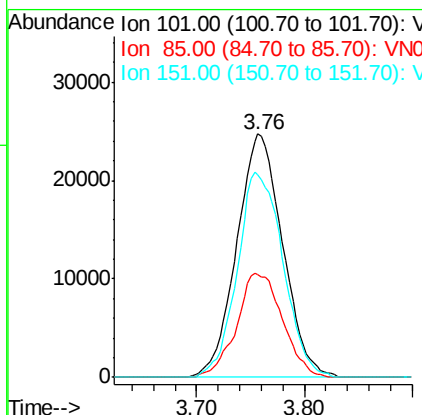
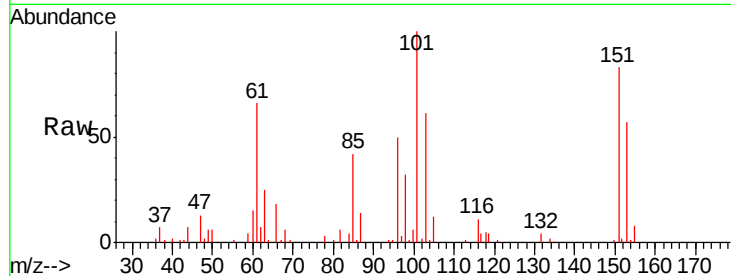
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 11.29 ug/l
 RT: 3.76 min Scan# 617
 Delta R.T. -0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Resp Lower	Resp Upper
101	100		
85	42.8	0.0	46.0
151	84.3	0.0	82.2

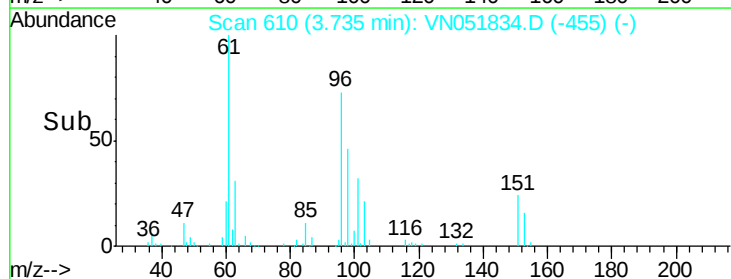
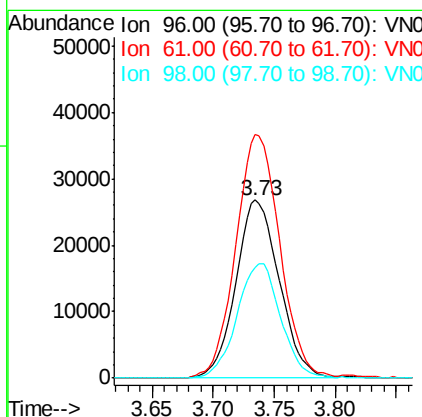
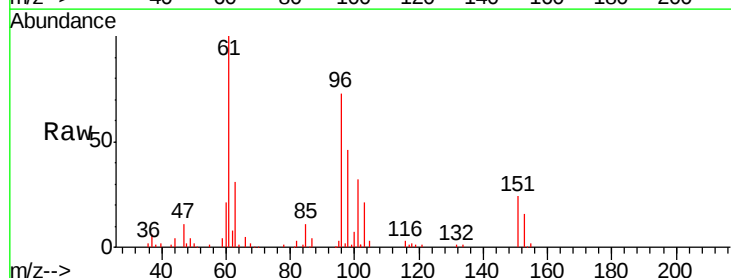
Manual Integrations
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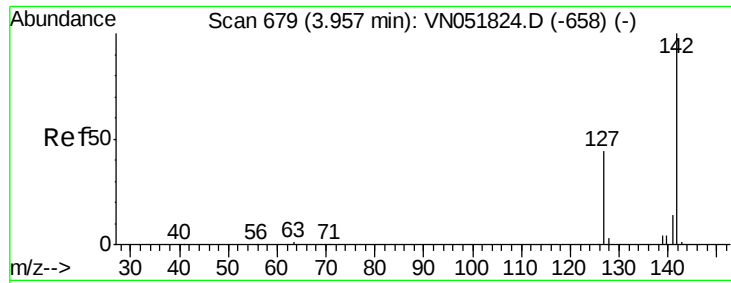
MMDadoda
 10/15/2018 11:27:59 AM



#10
 1,1-Dichloroethene
 Concen: 11.09 ug/l
 RT: 3.73 min Scan# 610
 Delta R.T. -0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Tgt Ion	Ratio	Resp Lower	Resp Upper
96	100		
61	136.7	133.0	199.6
98	62.2	52.6	78.8





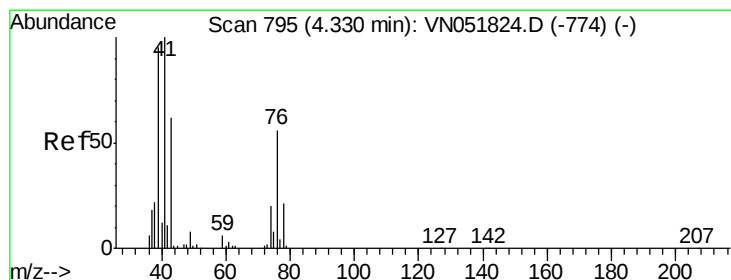
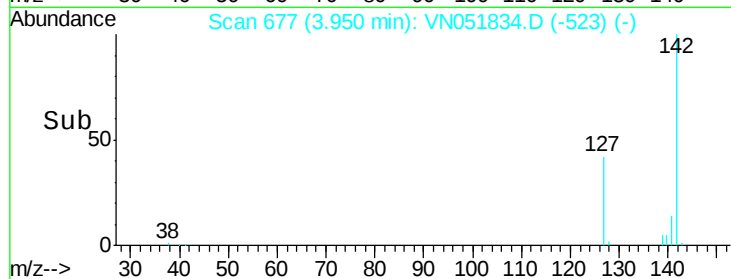
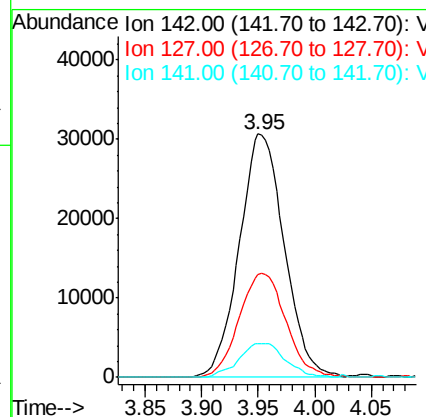
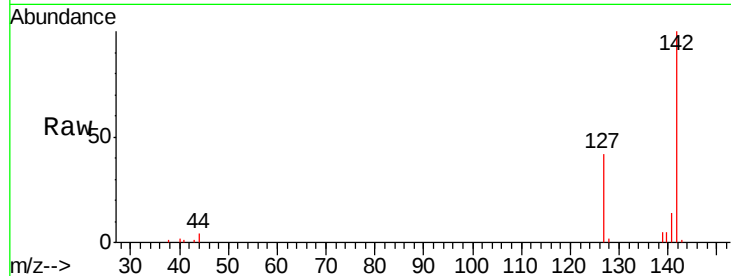
#11
Methyl Iodide
Concen: 9.78 ug/l
RT: 3.95 min Scan# 677
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
142	100		
127	42.1	19.7	59.0
141	13.4	6.3	18.9

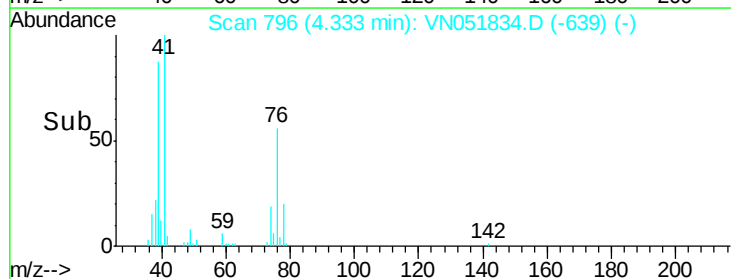
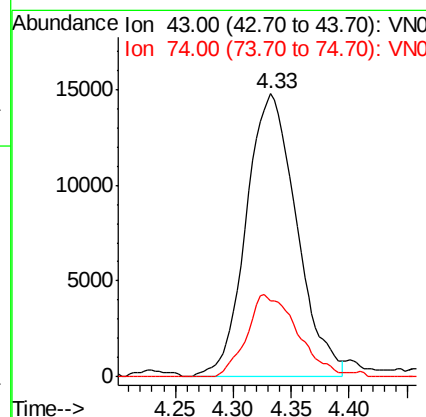
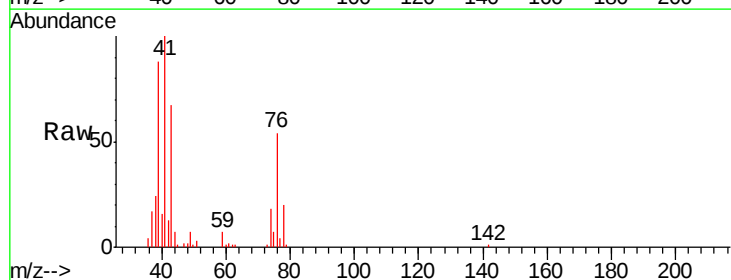
Manual Integrations
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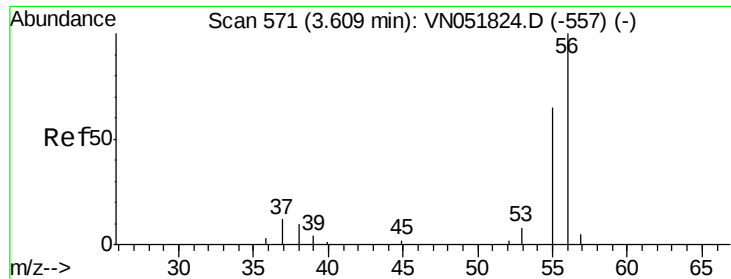
MMDadoda
10/15/2018 11:27:59 AM



#12
Methyl Acetate
Concen: 12.05 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Tgt Ion	Ratio	Lower	Upper
43	100		
74	26.6	21.8	32.6





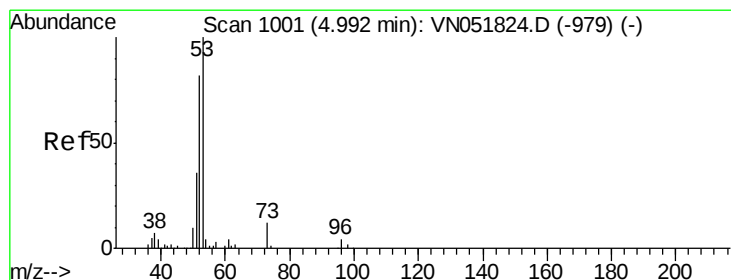
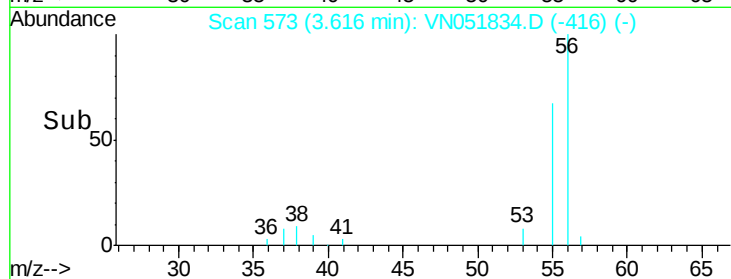
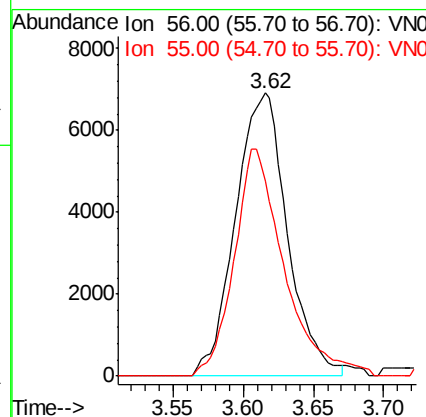
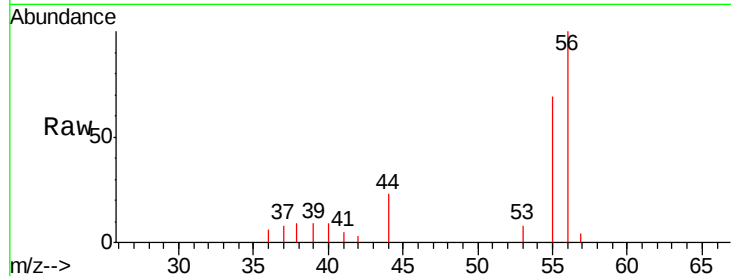
#13
Acrolein
Concen: 72.84 ug/l
RT: 3.62 min Scan# 573
Delta R.T. 0.01 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion: 56 Resp: 17783
Ion Ratio Lower Upper
56 100
55 77.4 64.0 96.0

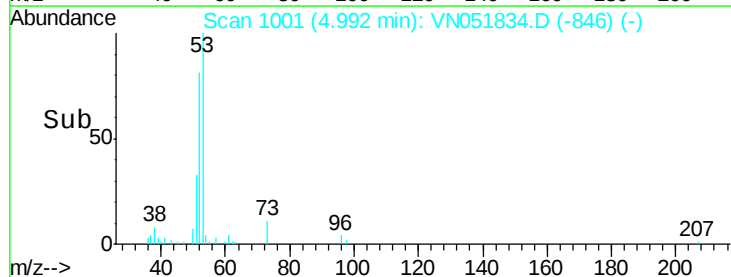
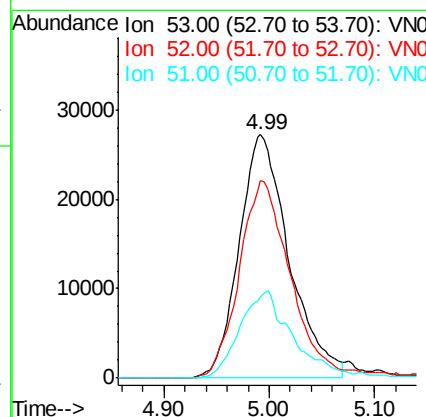
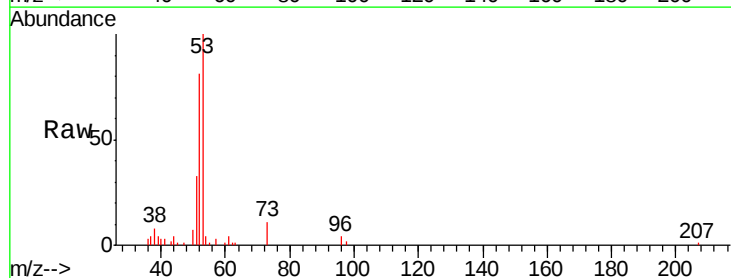
Manual Integrations
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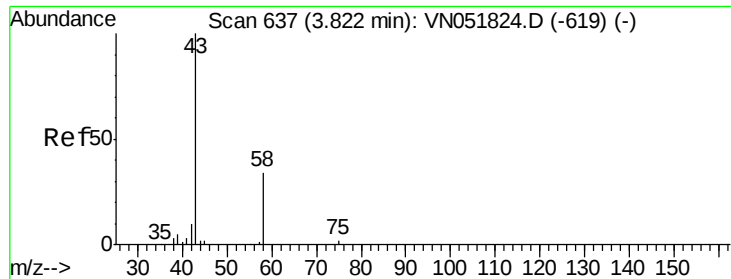
MMDadoda
10/15/2018 11:27:59 AM



#14
Acrylonitrile
Concen: 54.19 ug/l
RT: 4.99 min Scan# 1001
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Tgt Ion: 53 Resp: 89734
Ion Ratio Lower Upper
53 100
52 82.0 18.3 54.8#
51 37.5 19.7 59.1





#15

Acetone

Concen: 50.59 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

Tgt Ion: 58 Resp: 20710

Ion Ratio Lower Upper

58 100

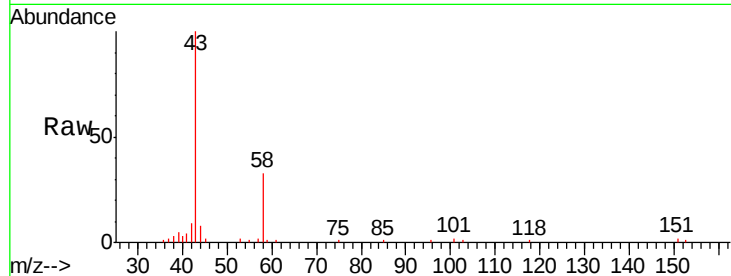
43 298.7 232.2 348.2

Manual Integrations

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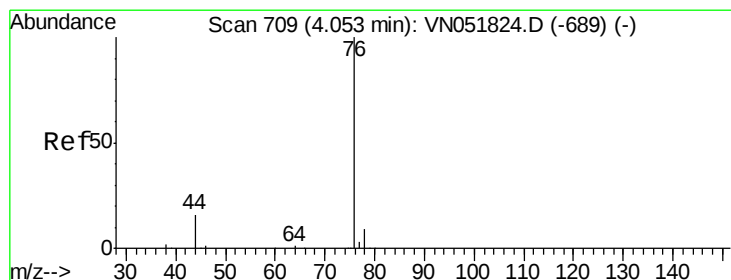
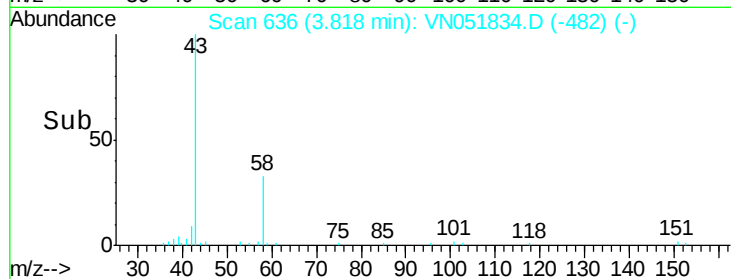
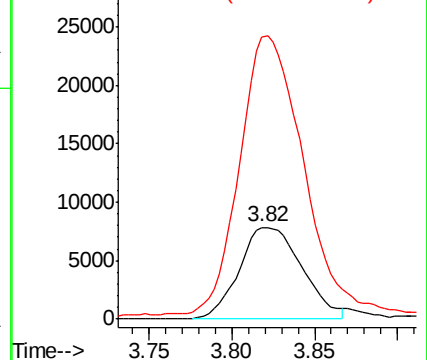
MMDadoda

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Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#16

Carbon Disulfide

Concen: 9.92 ug/l

RT: 4.05 min Scan# 709

Delta R.T. -0.00 min

Lab File: VN051834.D

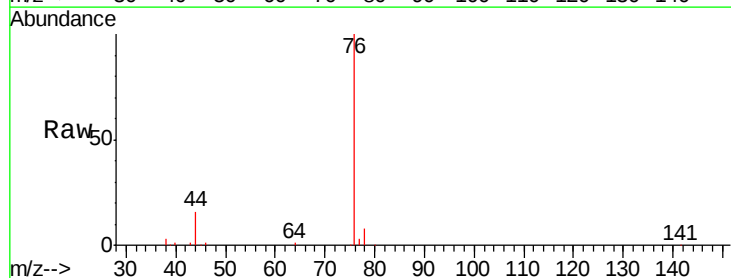
Acq: 12 Oct 2018 15:50

Tgt Ion: 76 Resp: 155388

Ion Ratio Lower Upper

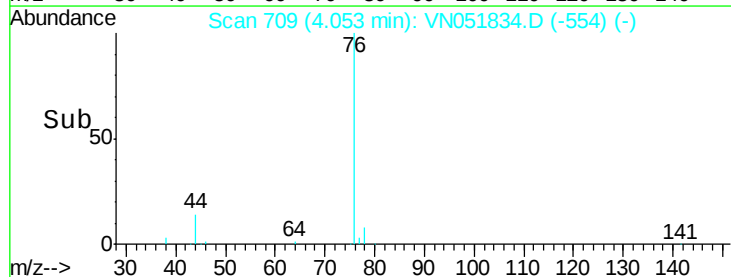
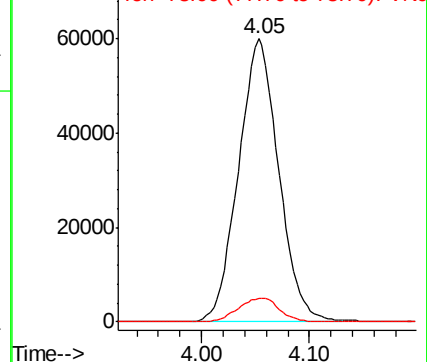
76 100

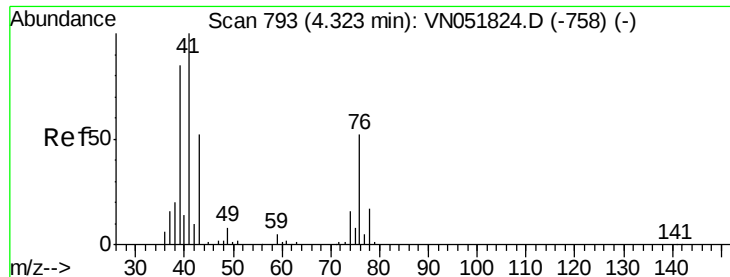
78 8.2 6.7 10.1



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0





#17

Allyl chloride

Concen: 10.05 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

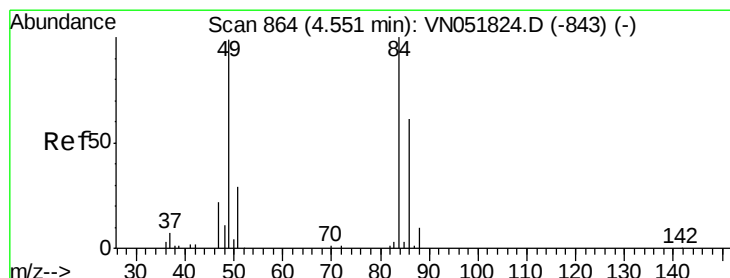
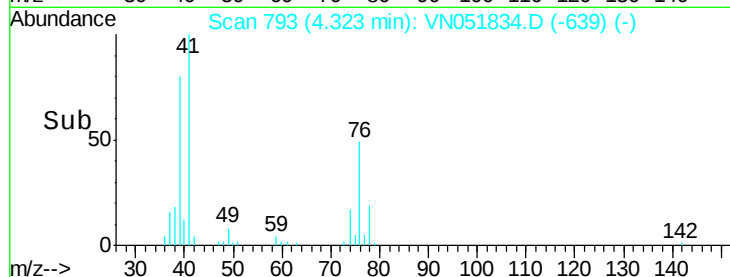
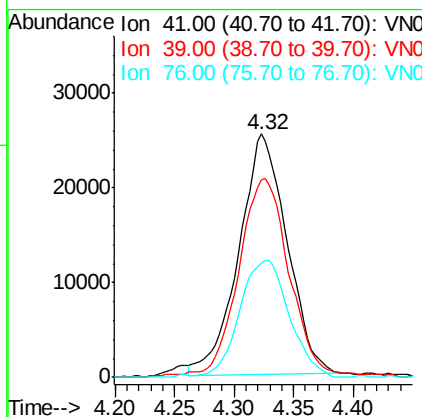
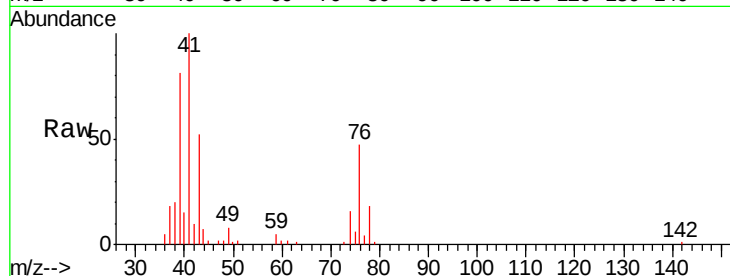
ClientSampleId :

LOQ-WATER-02-QT4-2018

Tgt Ion:	41	Resp:	71216
Ion	Ratio	Lower	Upper
41	100		
39	80.9	32.6	97.8
76	48.0	20.2	60.5

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#18

Methylene Chloride

Concen: 11.34 ug/l

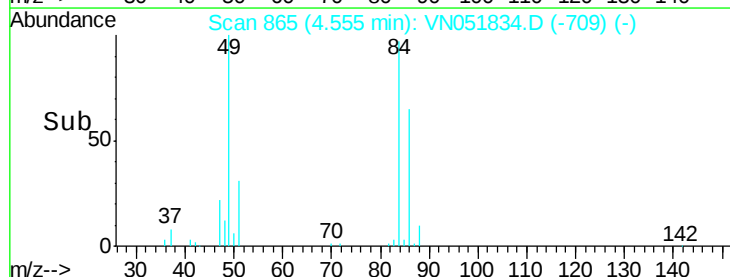
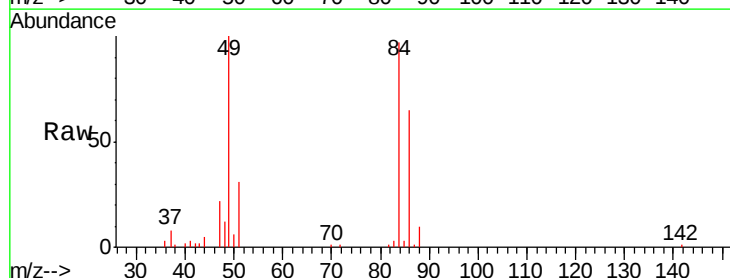
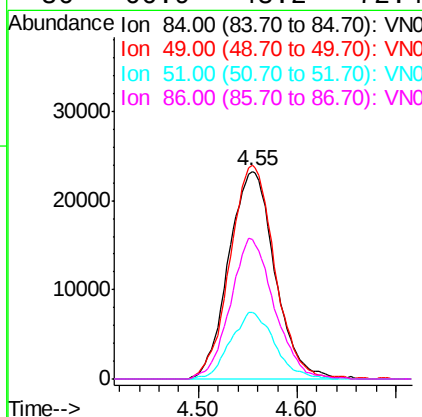
RT: 4.55 min Scan# 865

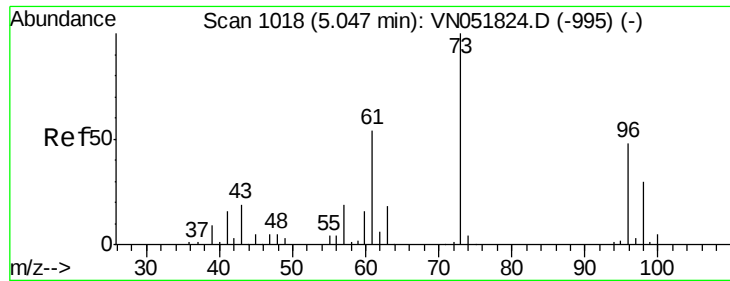
Delta R.T. 0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Tgt Ion:	84	Resp:	75685
Ion	Ratio	Lower	Upper
84	100		
49	102.7	91.6	137.4
51	32.2	29.8	44.6
86	66.9	48.2	72.4





#19

trans-1,2-Dichloroethene

Concen: 10.96 ug/l

RT: 5.04 min Scan# 1016

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :
MSVOA_N

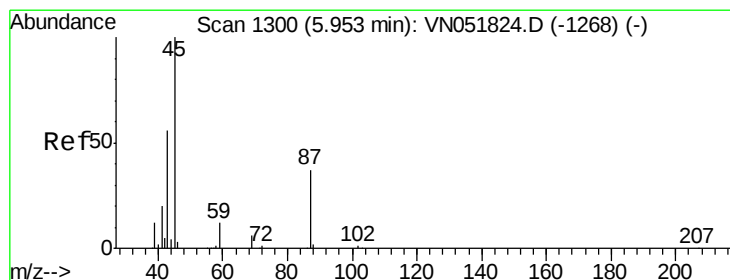
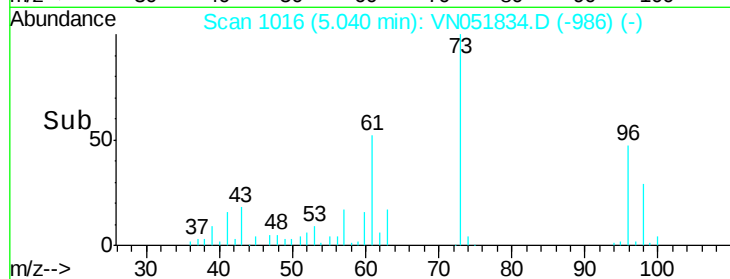
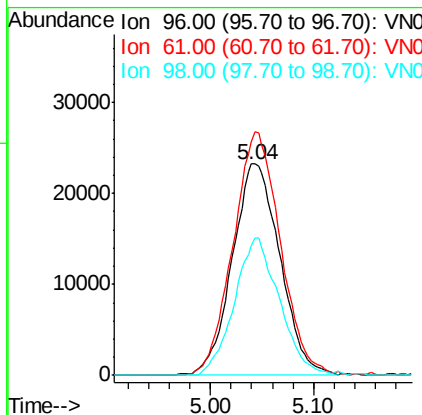
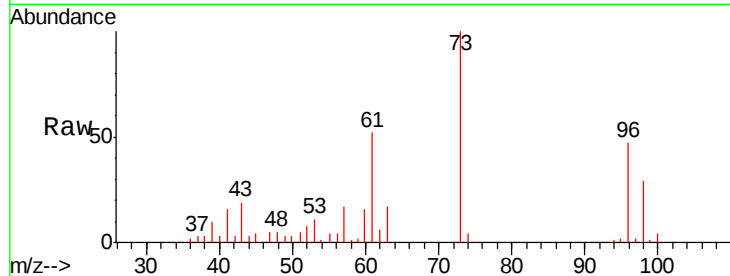
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion: 96 Resp: 74648

Ion	Ratio	Lower	Upper
96	100		
61	109.4	112.3	168.5#
98	61.6	47.1	70.7

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#20

Diisopropyl ether

Concen: 10.72 ug/l

RT: 5.95 min Scan# 1300

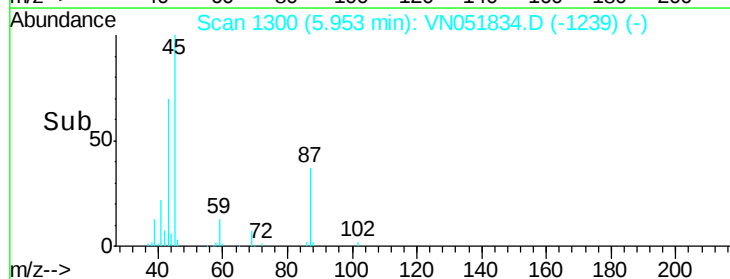
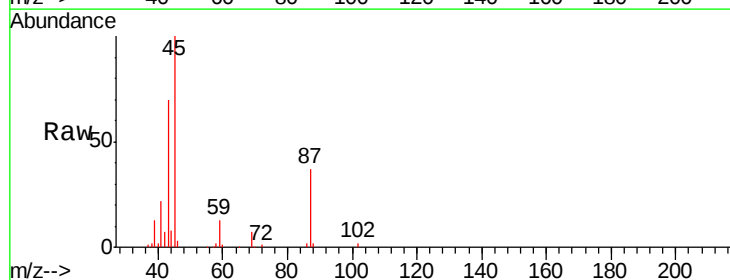
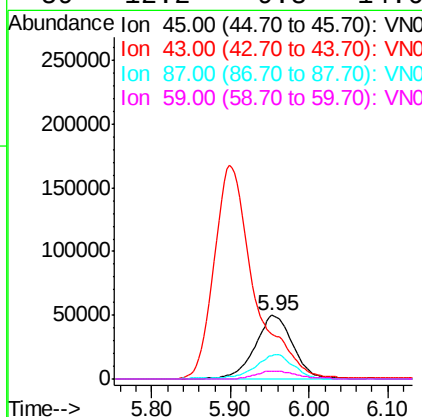
Delta R.T. -0.00 min

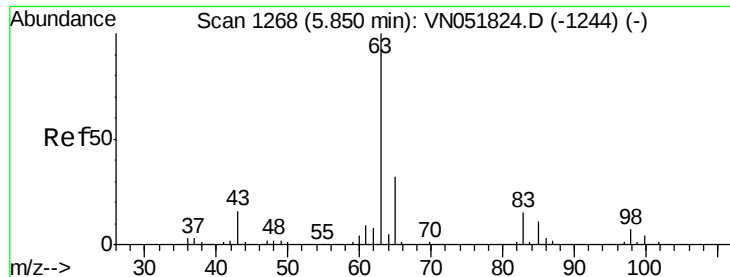
Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Tgt Ion: 45 Resp: 169145

Ion	Ratio	Lower	Upper
45	100		
43	67.1	62.1	93.1
87	36.7	19.9	29.9#
59	12.2	9.8	14.6





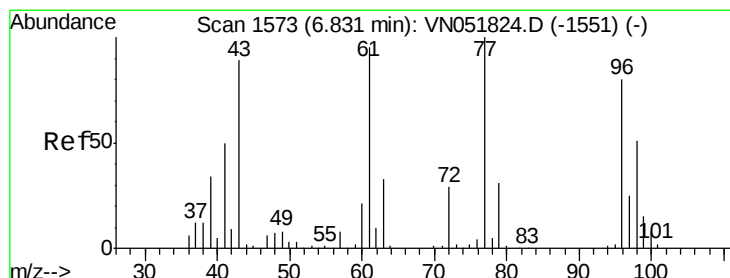
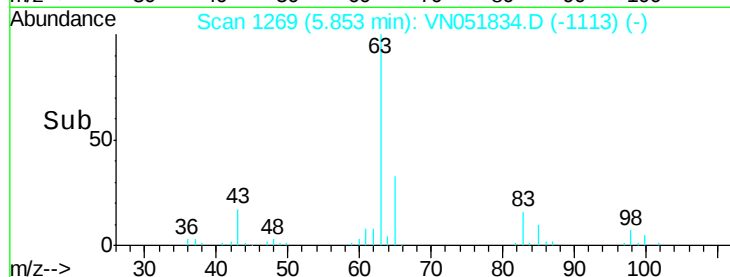
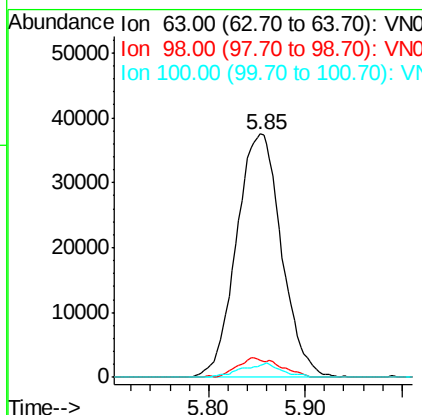
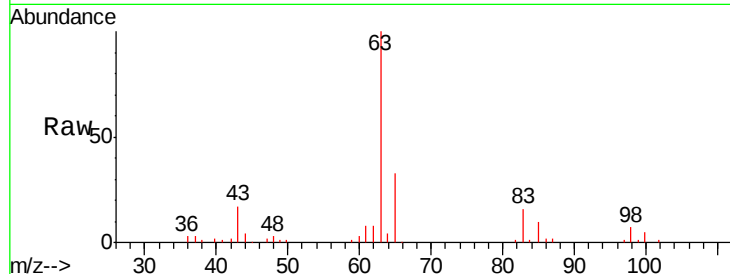
#21
 1,1-Dichloroethane
 Concen: 11.01 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Resp Lower	Resp Upper
63	100		
98	7.0	4.1	12.3
100	4.7	1.6	4.7#

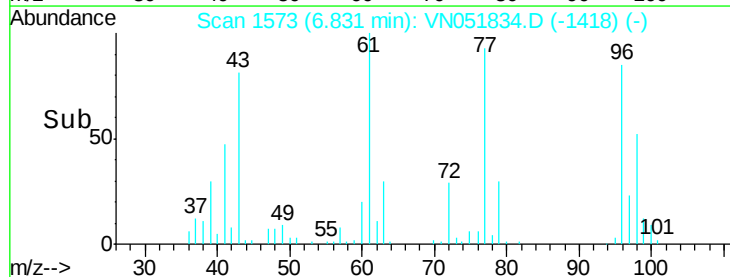
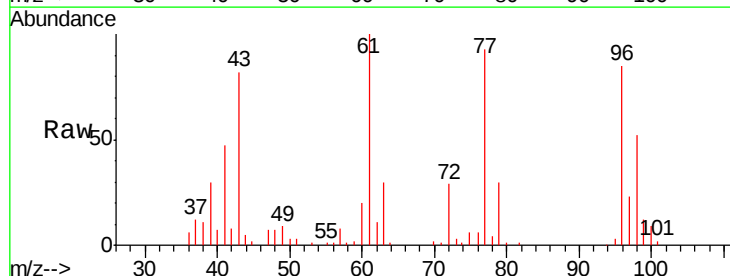
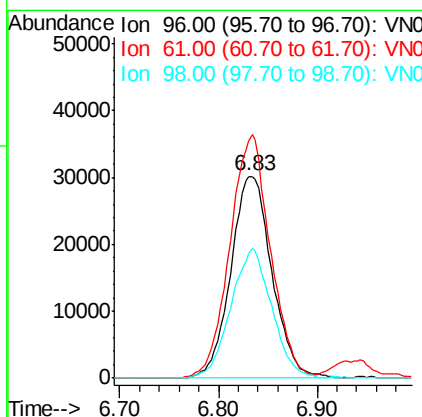
Manual Integrations
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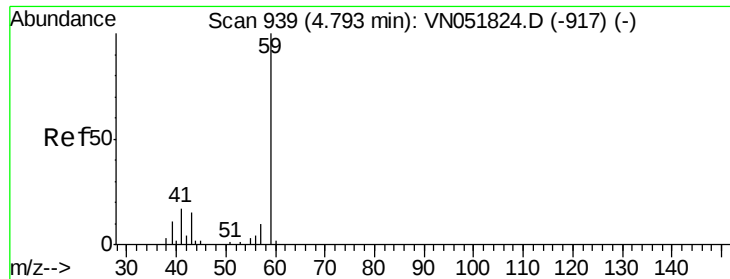
MMDadoda
 10/15/2018 11:27:59 AM



#22
 cis-1,2-Dichloroethene
 Concen: 10.91 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. -0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Tgt Ion	Ratio	Resp Lower	Resp Upper
96	100		
61	119.0	124.5	186.7#
98	63.8	51.9	77.9





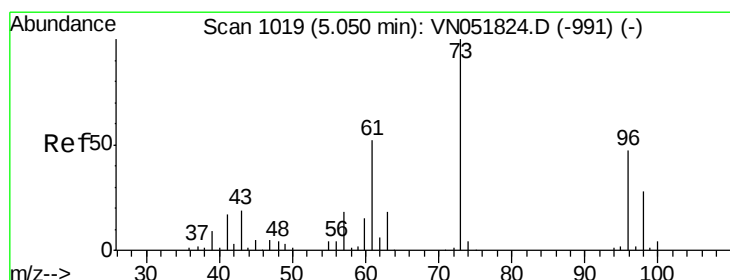
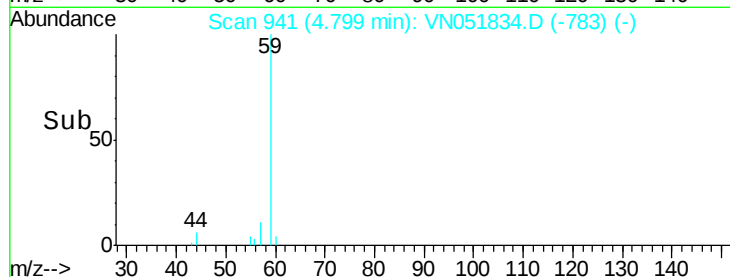
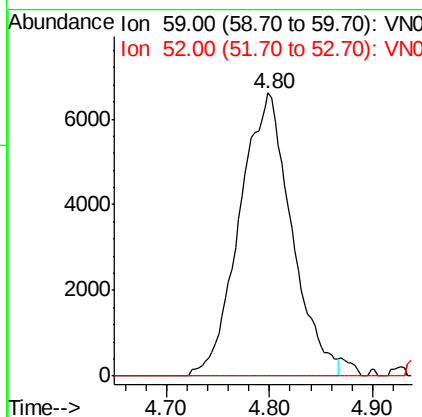
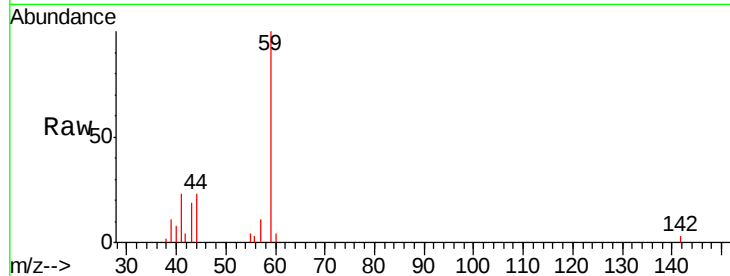
#23
 tert-Butyl Alcohol
 Concen: 53.08 ug/l
 RT: 4.80 min Scan# 941
 Delta R.T. 0.01 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

Tgt Ion: 59 Resp: 23149
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0

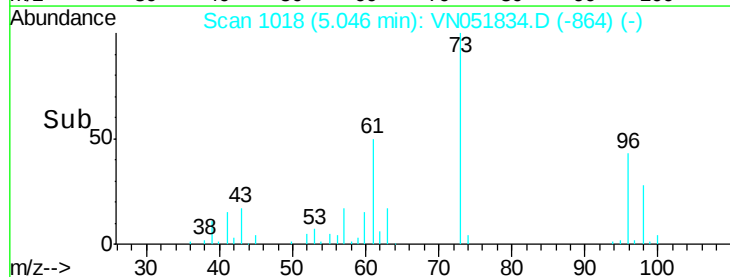
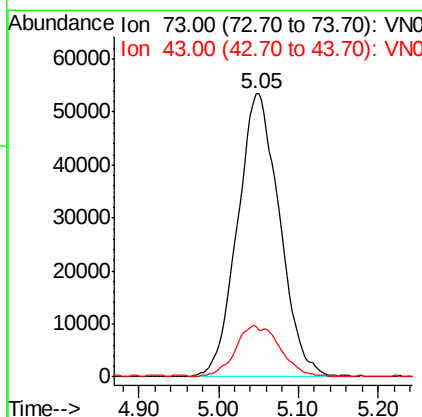
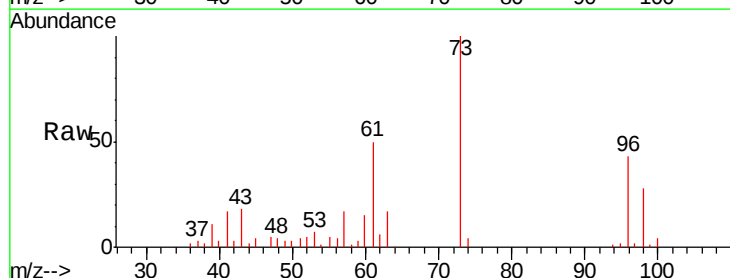
Manual Integrations
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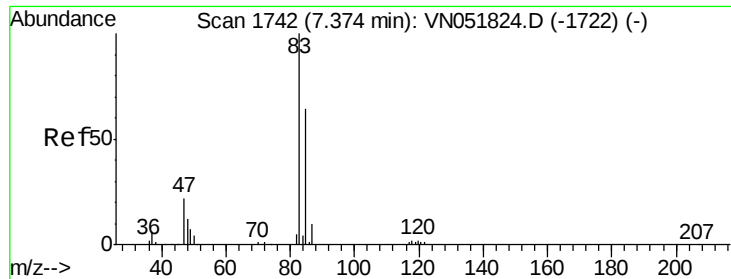
MMDadoda
 10/15/2018 11:27:59 AM



#24
 Methyl tert-Butyl Ether
 Concen: 11.15 ug/l
 RT: 5.05 min Scan# 1018
 Delta R.T. -0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Tgt Ion: 73 Resp: 191603
 Ion Ratio Lower Upper
 73 100
 43 10.9 5.4 8.0#





#25

Chloroform

Concen: 10.82 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

Tgt Ion: 83 Resp: 141462

Ion Ratio Lower Upper

83 100

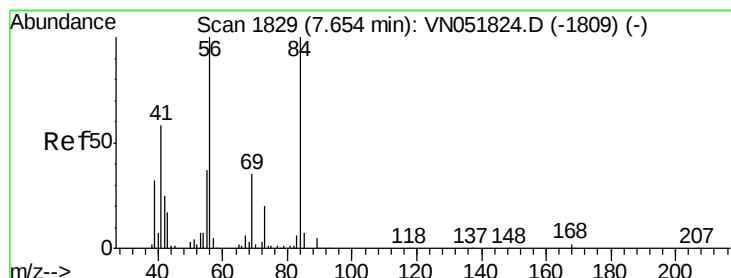
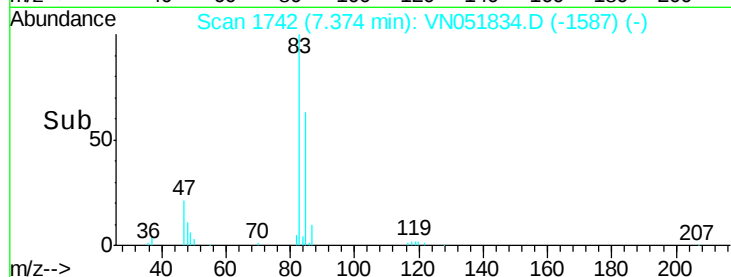
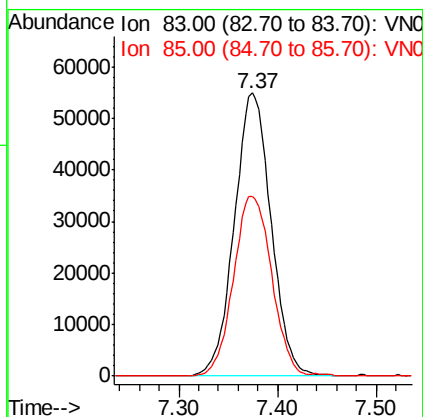
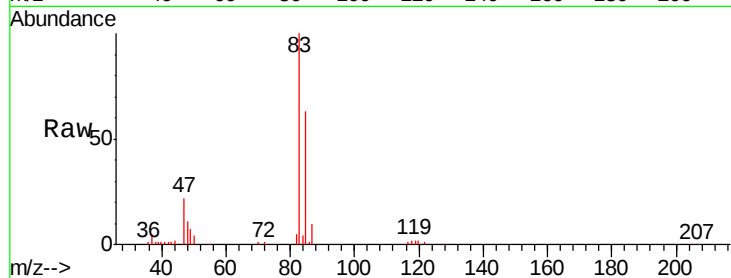
85 63.5 54.6 82.0

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#26

Cyclohexane

Concen: 10.81 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

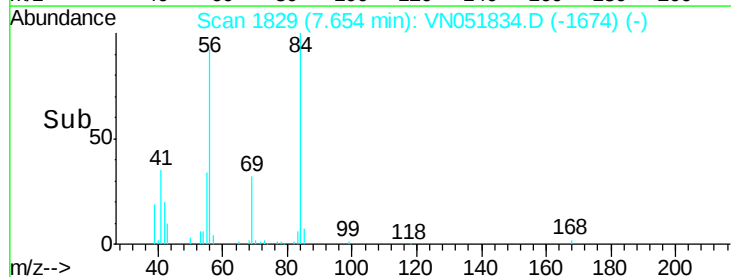
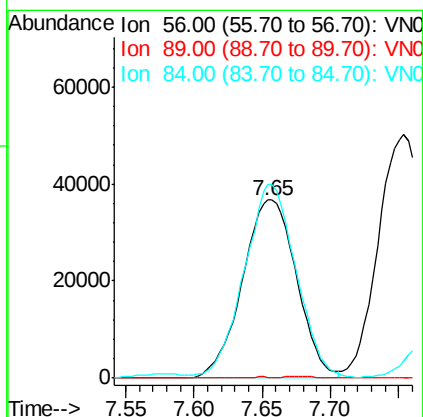
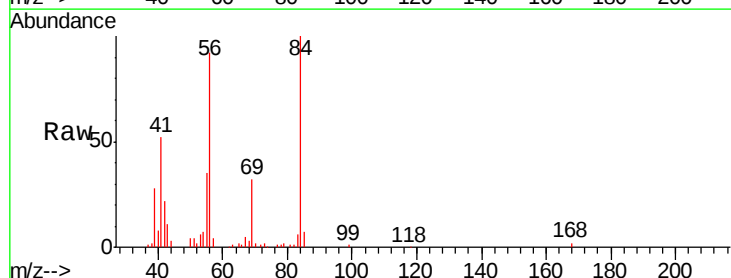
Tgt Ion: 56 Resp: 101033

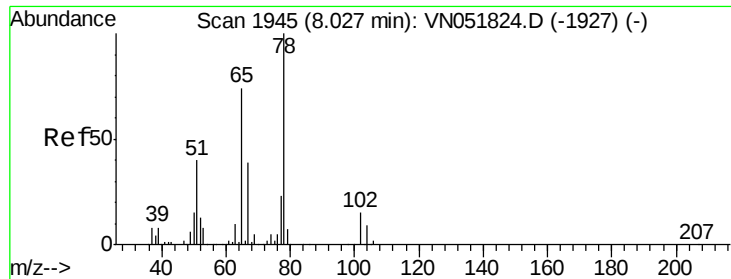
Ion Ratio Lower Upper

56 100

89 0.1 1.5 2.3#

84 103.5 64.2 96.4#





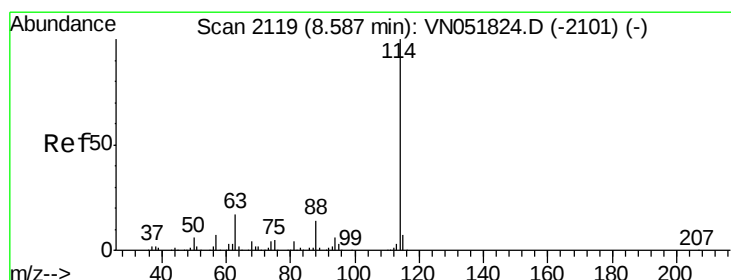
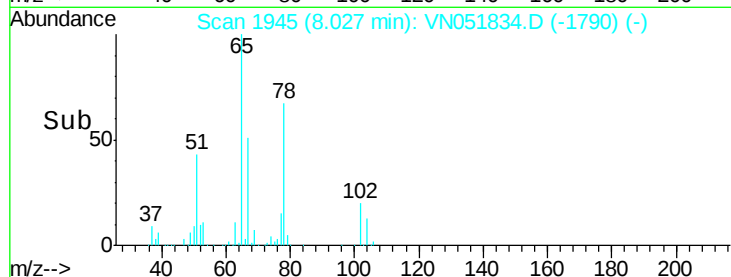
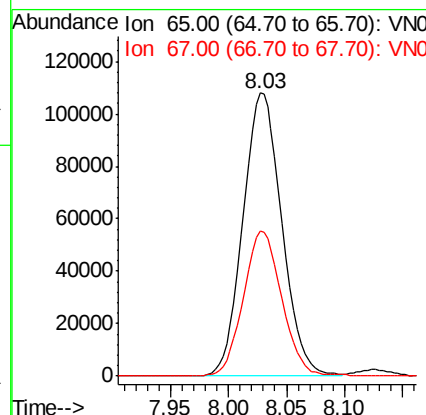
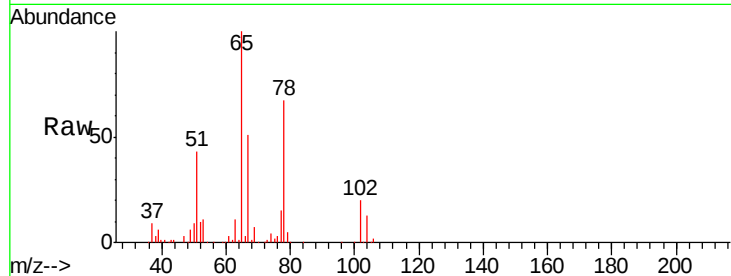
#27
 1,2-Dichloroethane-d4
 Concen: 10.81 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

Tgt Ion: 65 Resp: 252122
 Ion Ratio Lower Upper
 65 100
 67 50.6 41.8 62.8

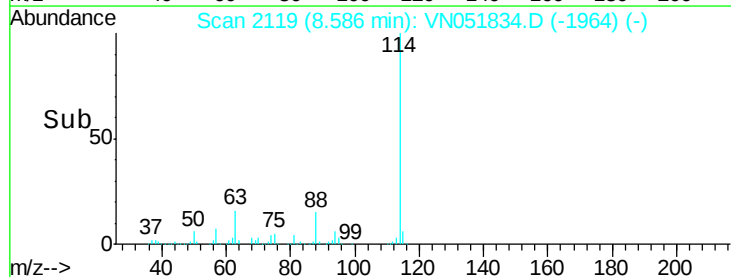
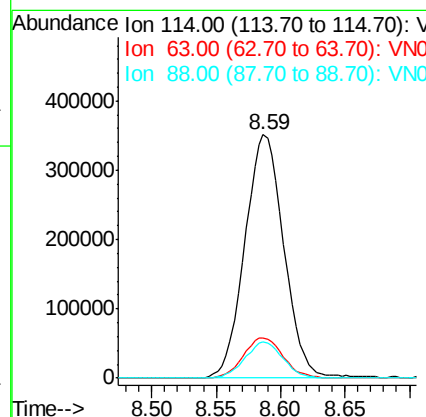
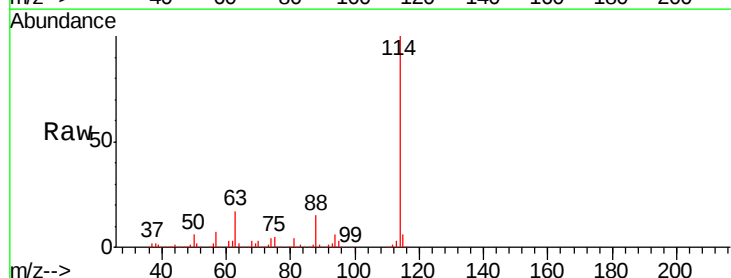
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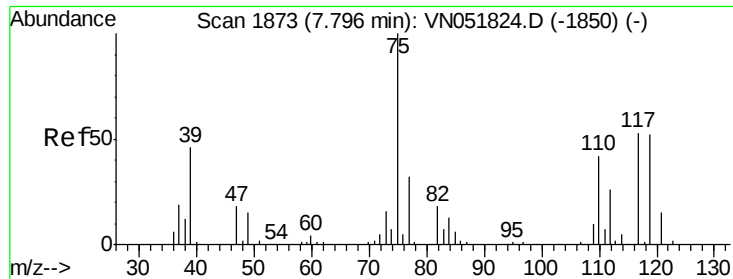
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#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Tgt Ion: 114 Resp: 738893
 Ion Ratio Lower Upper
 114 100
 63 17.0 16.2 24.2
 88 14.5 12.2 18.4





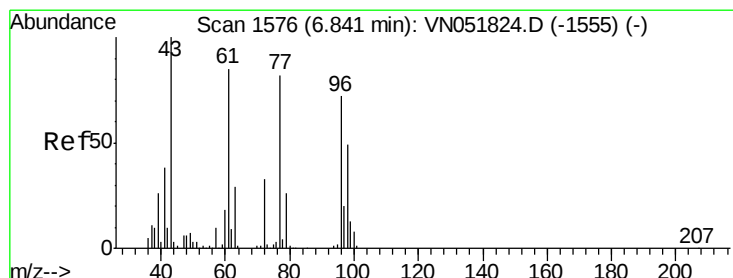
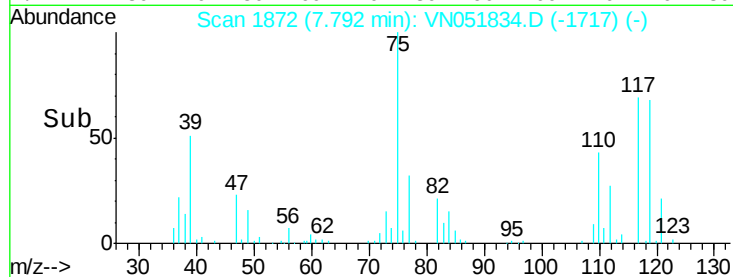
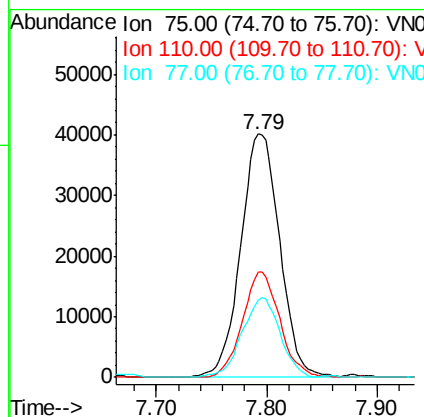
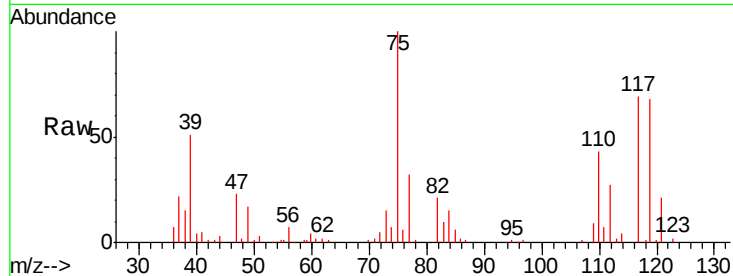
#29
 1,1-Dichloropropene
 Concen: 10.35 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. -0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
75	100		
110	41.2	0.0	70.8
77	31.7	0.0	61.6

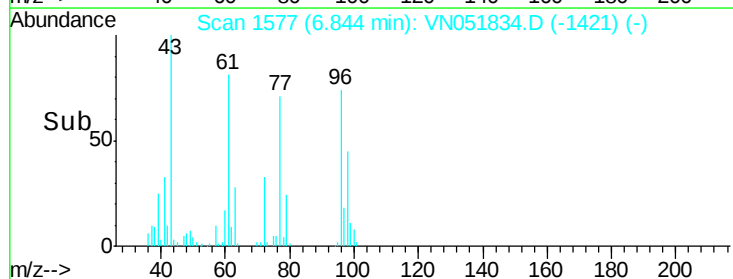
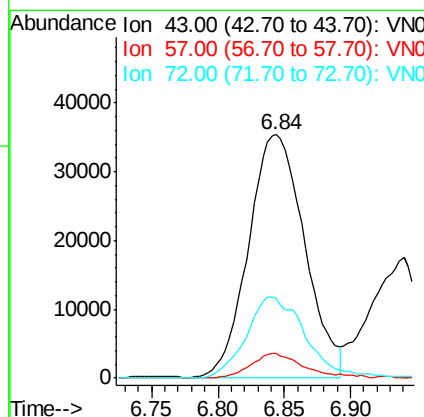
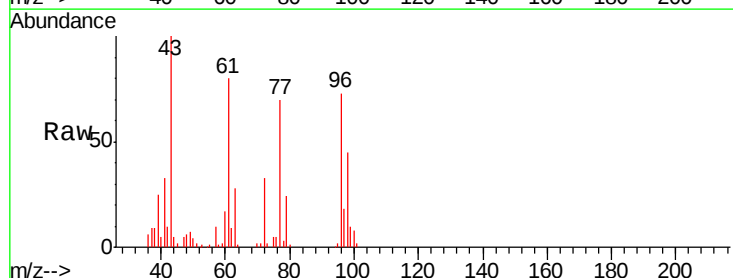
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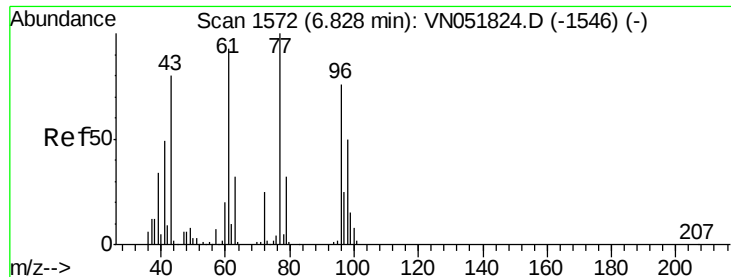
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#30
 2-Butanone
 Concen: 52.60 ug/l
 RT: 6.84 min Scan# 1577
 Delta R.T. 0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Tgt Ion	Ratio	Lower	Upper
43	100		
57	9.1	4.5	6.7#
72	21.9	21.5	32.3





#31

2,2-Dichloropropane

Concen: 9.48 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

Tgt Ion: 77 Resp: 106272

Ion Ratio Lower Upper

77 100

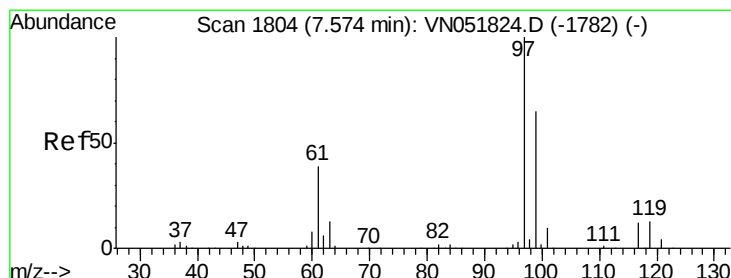
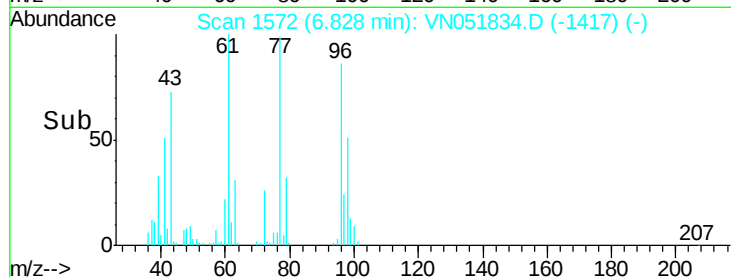
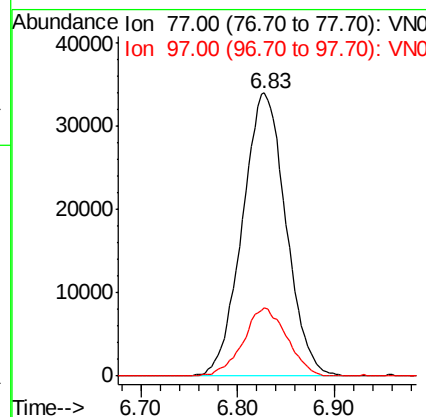
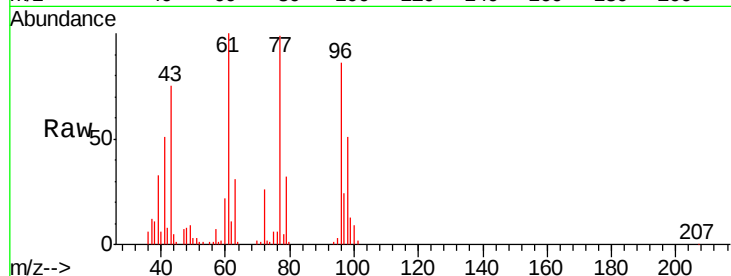
97 24.1 12.0 18.0#

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#32

1,1,1-Trichloroethane

Concen: 10.18 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

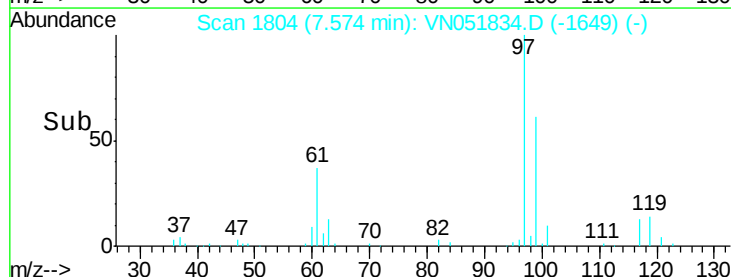
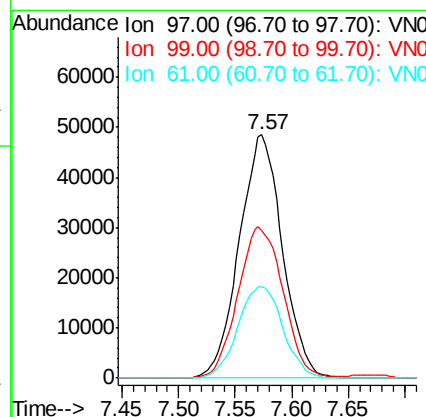
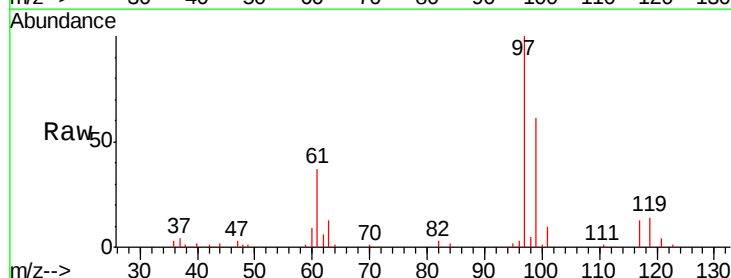
Tgt Ion: 97 Resp: 128560

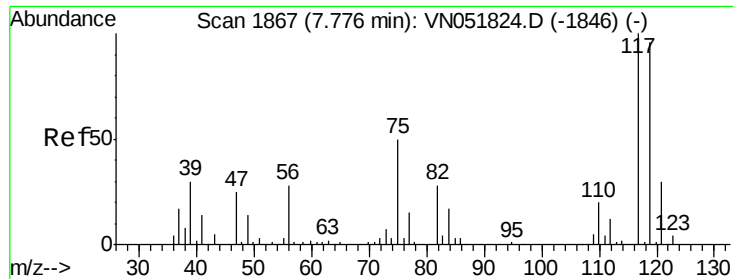
Ion Ratio Lower Upper

97 100

99 65.1 51.6 77.4

61 39.2 37.4 56.0





#33

Carbon Tetrachloride

Concen: 10.11 ug/l

RT: 7.77 min Scan# 1866

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

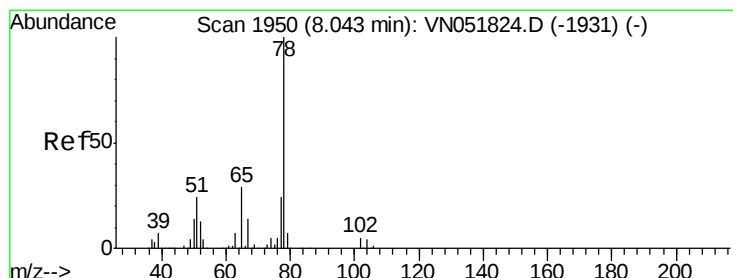
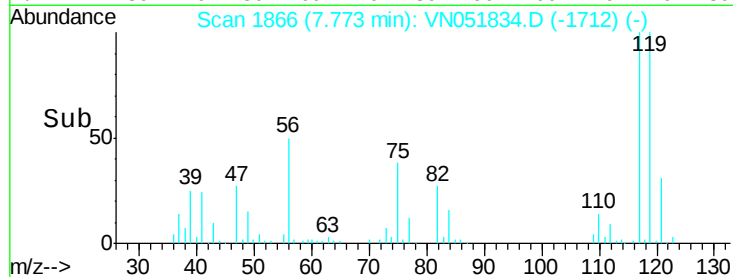
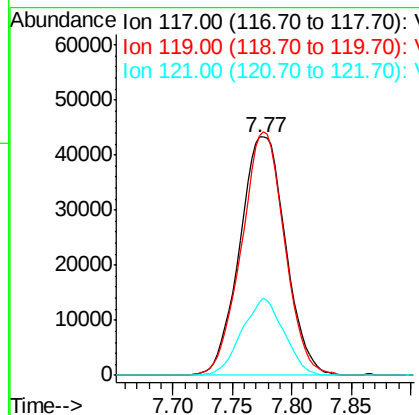
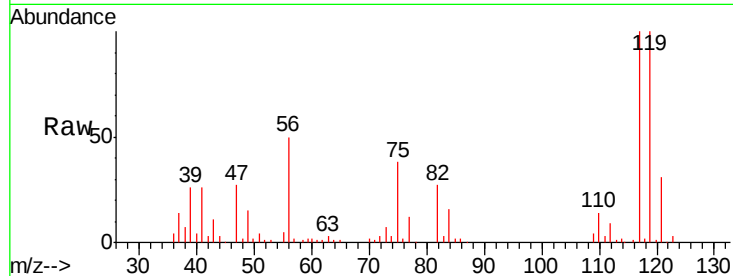
ClientSampleId :

LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	115497		
119	100.5	85.1	127.7	
121	31.2	24.2	36.2	

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#34

Benzene

Concen: 10.67 ug/l

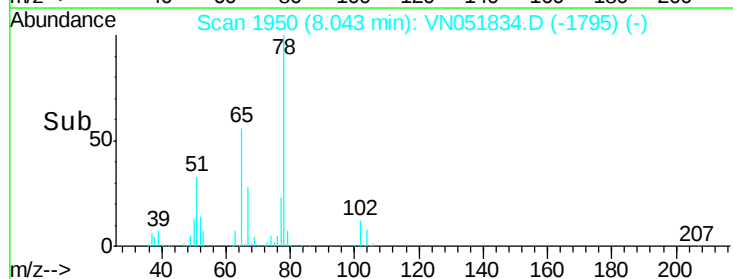
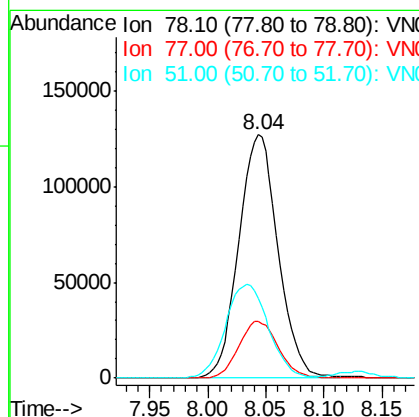
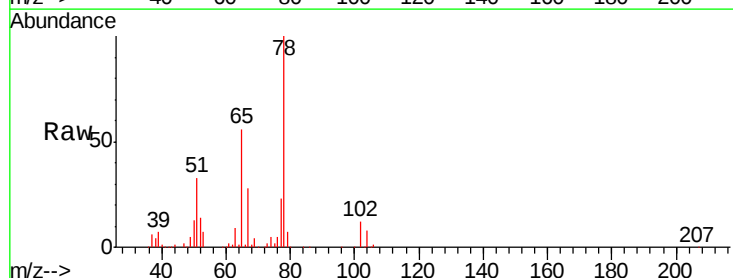
RT: 8.04 min Scan# 1950

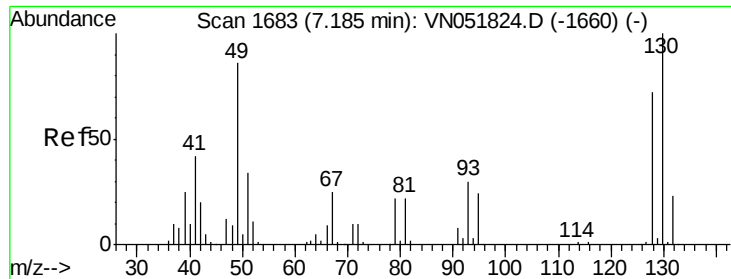
Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	300493		
77	23.4	18.8	28.2	
51	32.4	46.2	69.4	





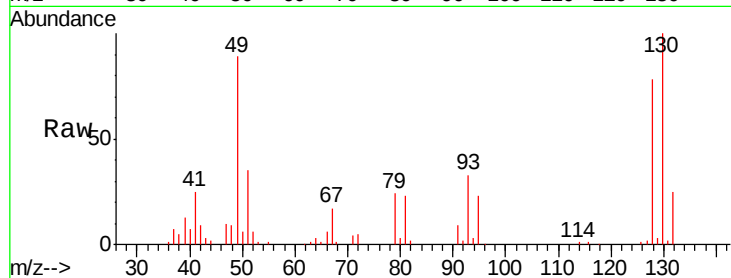
#35
Methacrylonitrile
Concen: 10.13 ug/l m
RT: 7.18 min Scan# 1683
Delta R.T. -0.01 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

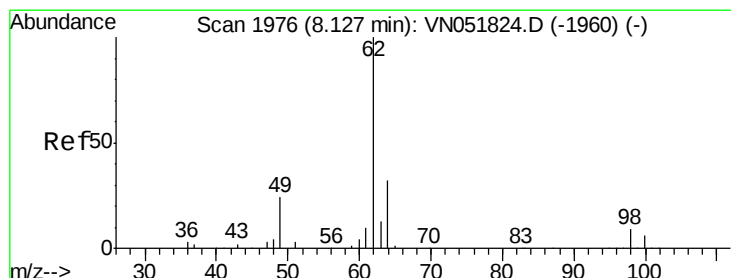
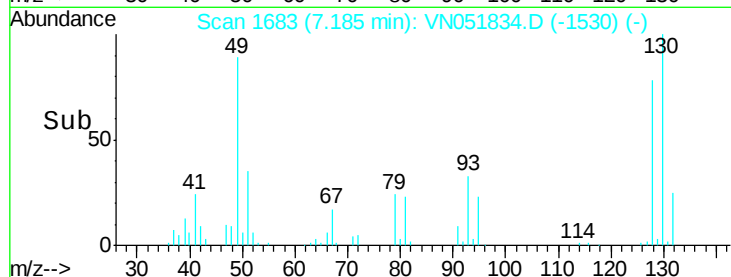
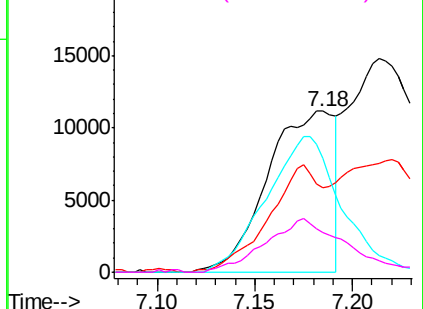
Tgt Ion: 41 Resp: 26489
Ion Ratio Lower Upper
41 100
39 52.3 22.6 67.7
67 70.4 28.9 86.8
52 24.6 11.3 33.9

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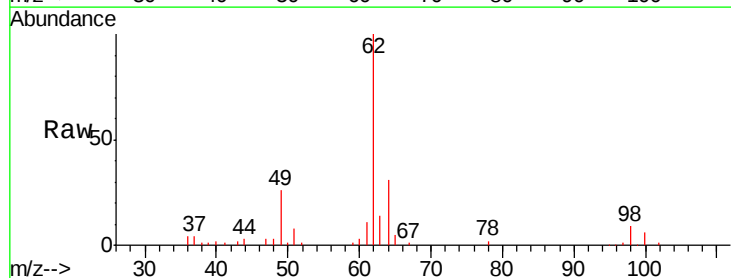


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 67.00 (66.70 to 67.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

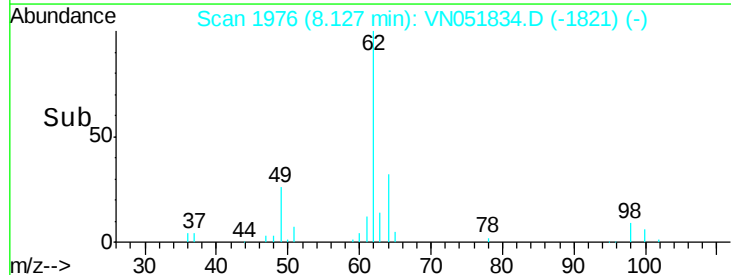
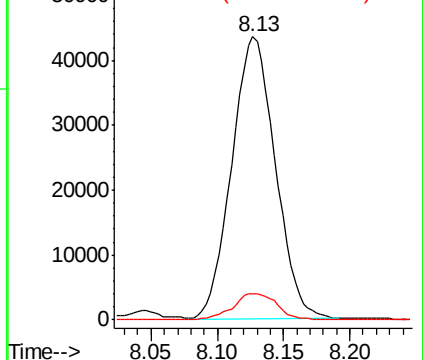


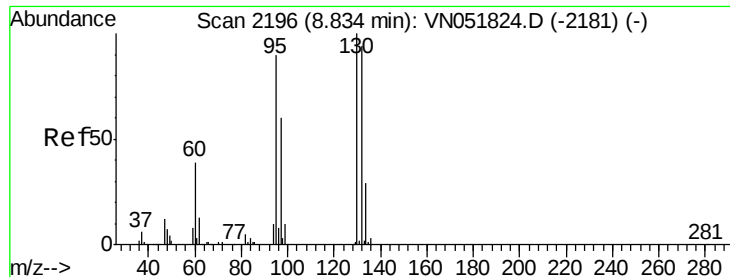
#36
1,2-Dichloroethane
Concen: 11.01 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Tgt Ion: 62 Resp: 99375
Ion Ratio Lower Upper
62 100
98 9.5 6.9 10.3



Abundance Ion 62.00 (61.70 to 62.70): VN0
Ion 98.00 (97.70 to 98.70): VN0





#37

Trichloroethene

Concen: 10.43 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

Tgt Ion: 130 Resp: 91221

Ion Ratio Lower Upper

130 100

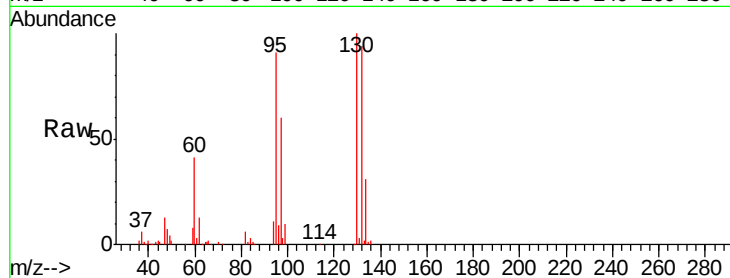
95 91.2 76.4 114.6

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Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN

8.84

50000

40000

30000

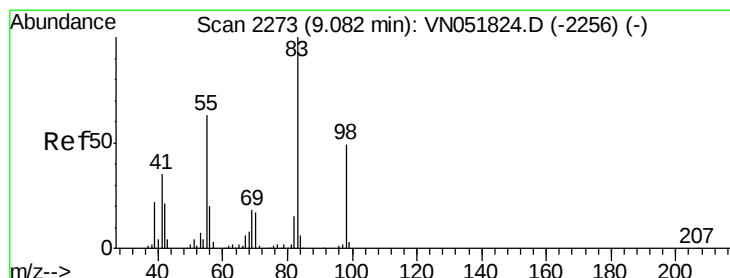
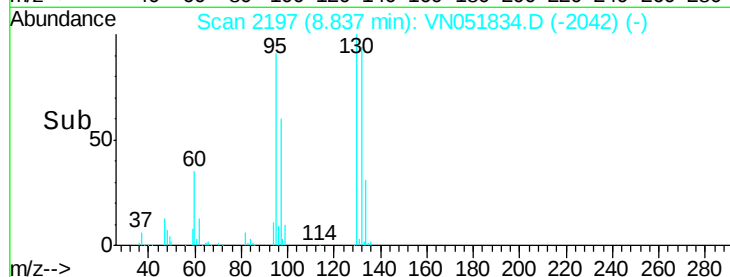
20000

10000

0

8.75 8.80 8.85 8.90

Time-->



#38

Methylcyclohexane

Concen: 10.12 ug/l

RT: 9.08 min Scan# 2273

Delta R.T. 0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

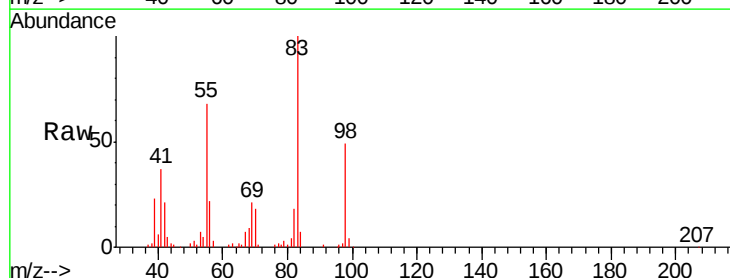
Tgt Ion: 83 Resp: 123637

Ion Ratio Lower Upper

83 100

55 65.3 43.0 129.2

98 48.6 21.3 63.7



Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN

9.08

80000

60000

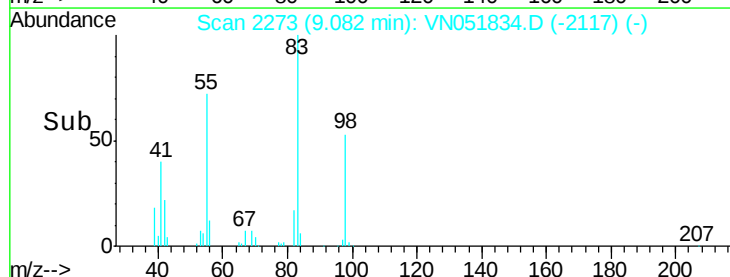
40000

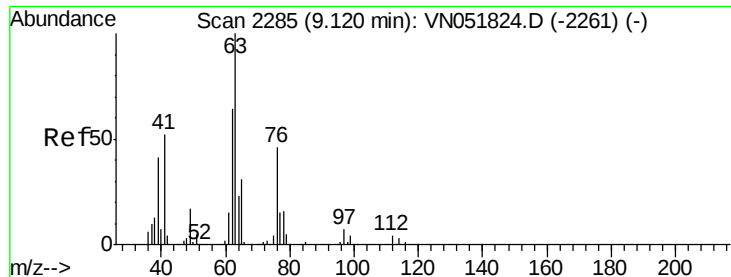
20000

0

9.00 9.05 9.10 9.15 9.20

Time-->





#39

1,2-Dichloropropane

Concen: 10.56 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

Tgt Ion: 63 Resp: 70080

Ion Ratio Lower Upper

63 100

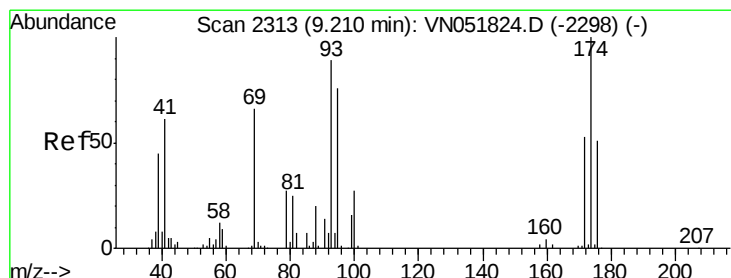
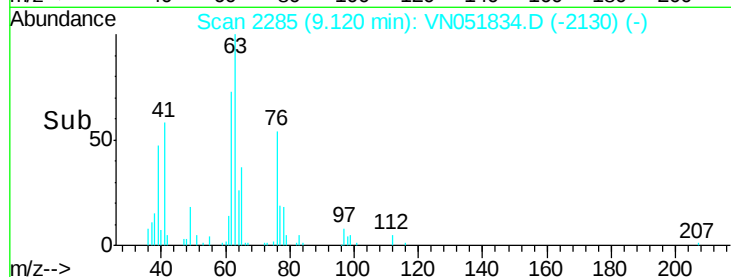
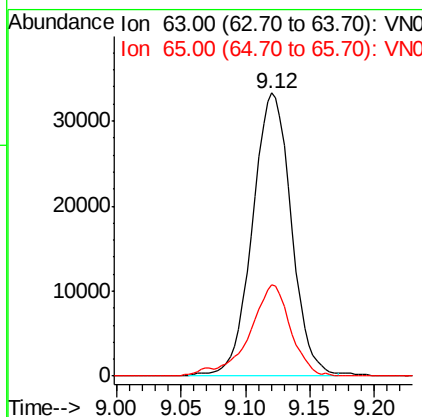
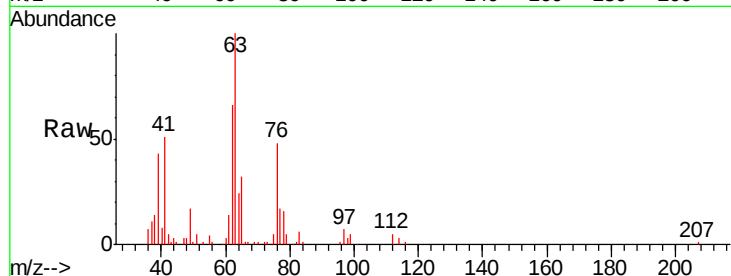
65 32.3 23.2 34.8

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#40

Dibromomethane

Concen: 10.73 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

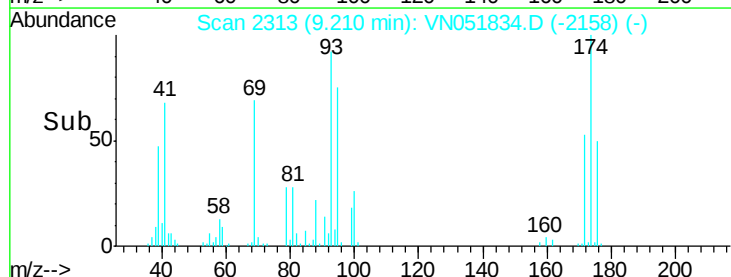
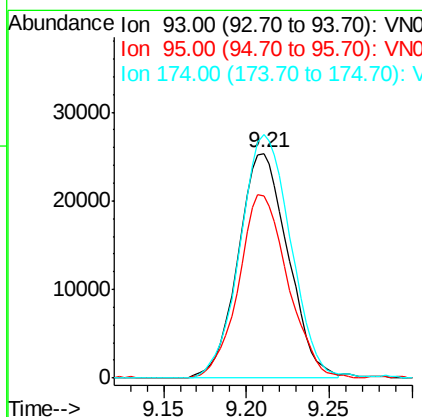
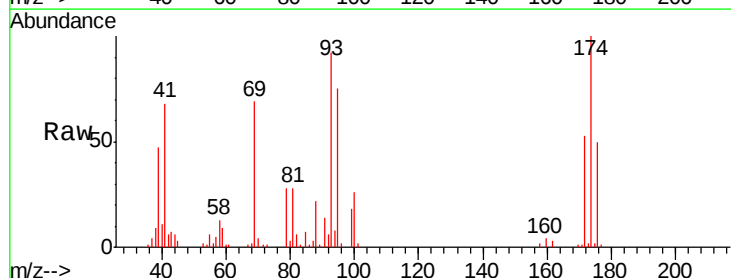
Tgt Ion: 93 Resp: 52852

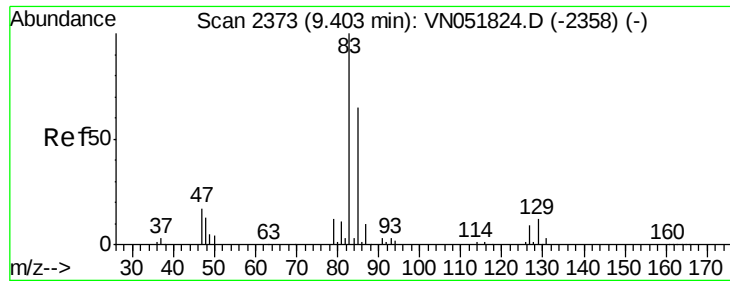
Ion Ratio Lower Upper

93 100

95 80.7 0.0 162.0

174 110.5 0.0 214.0





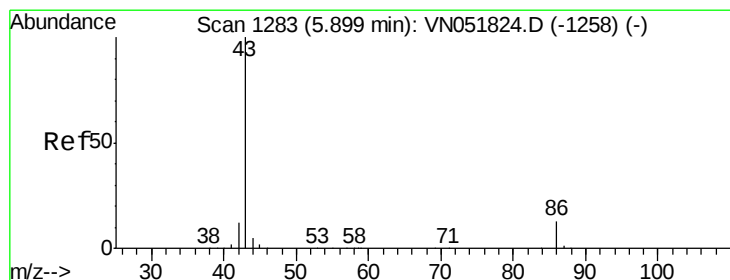
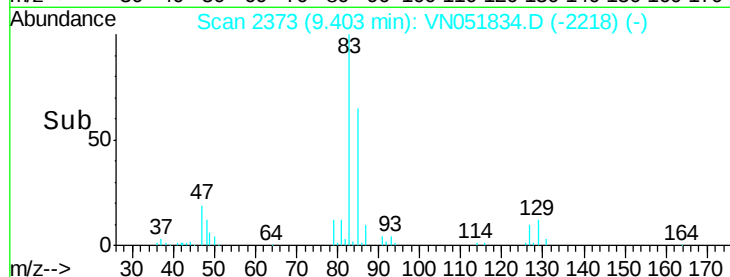
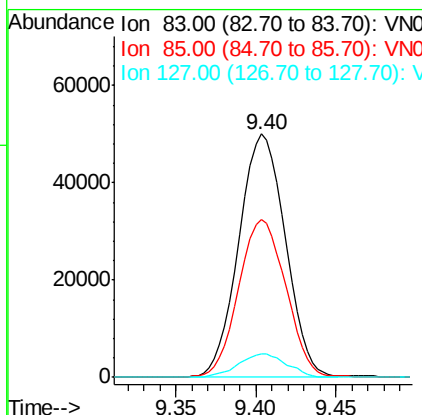
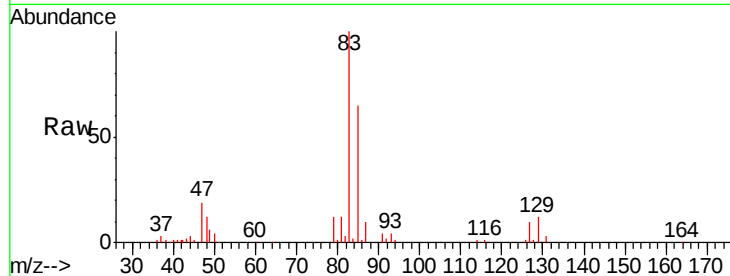
#41
Bromodichloromethane
Concen: 9.82 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.3	55.7	83.5
127	9.9	8.2	12.4

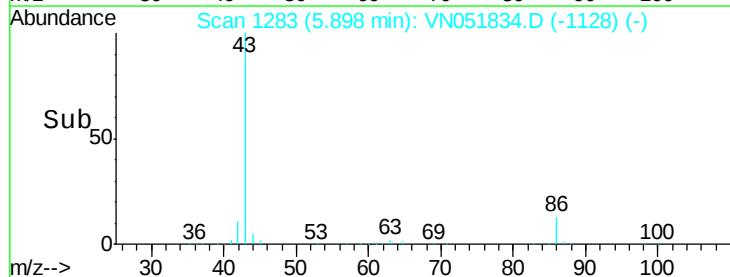
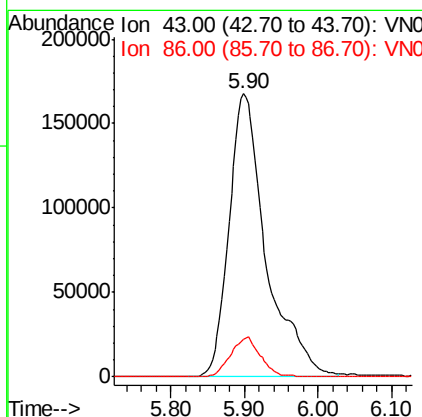
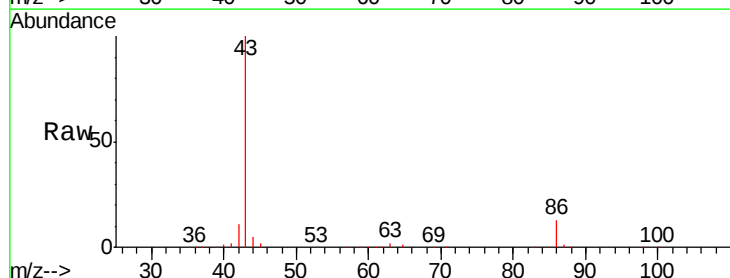
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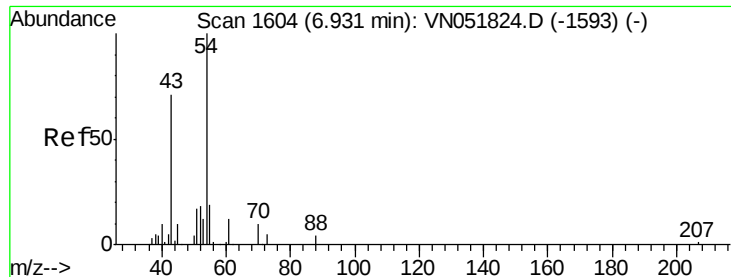
MMDadoda
10/15/2018 11:27:59 AM



#42
Vinyl Acetate
Concen: 52.27 ug/l
RT: 5.90 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Tgt Ion	Ratio	Lower	Upper
43	100		
86	11.4	6.5	9.7#





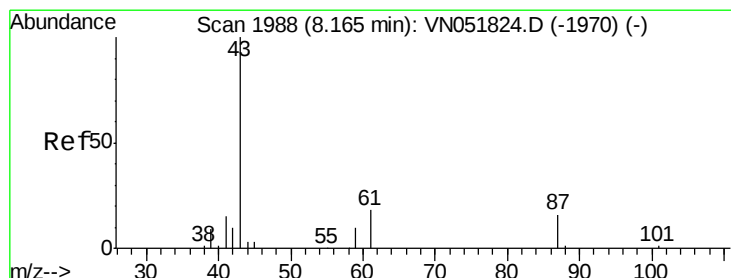
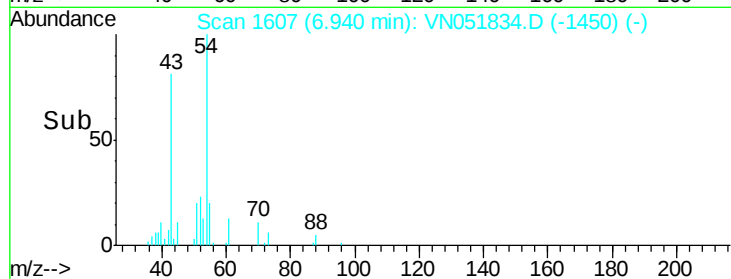
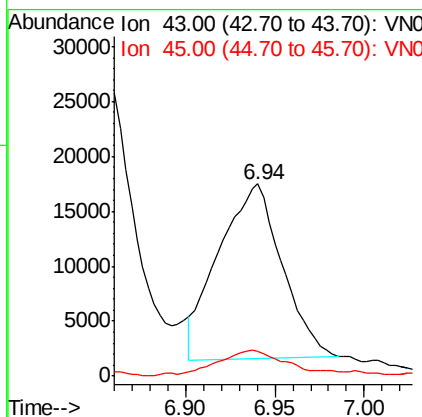
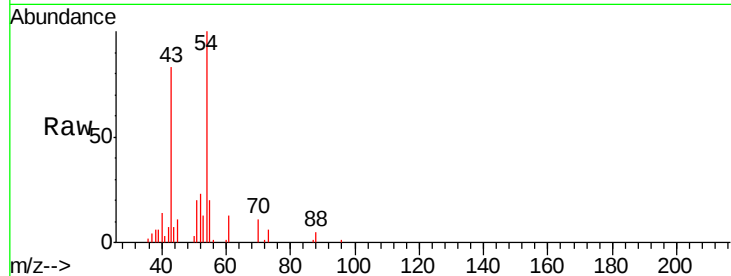
#43
Ethyl Acetate
Concen: 9.09 ug/l
RT: 6.94 min Scan# 1607
Delta R.T. 0.01 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion: 43 Resp: 39304
Ion Ratio Lower Upper
43 100
45 13.6 11.0 16.6

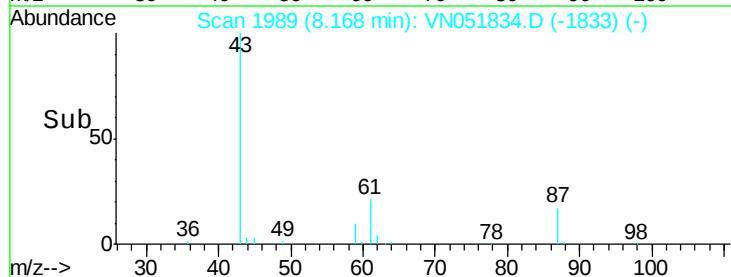
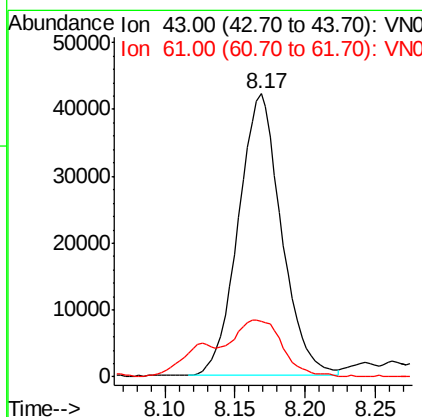
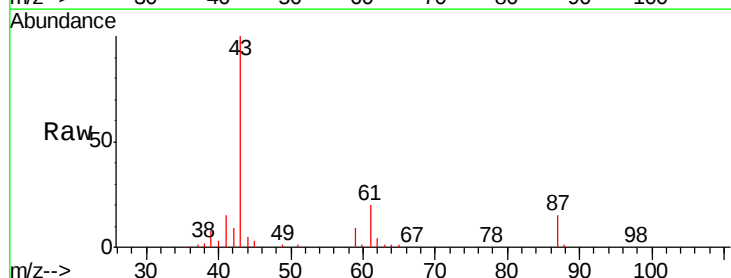
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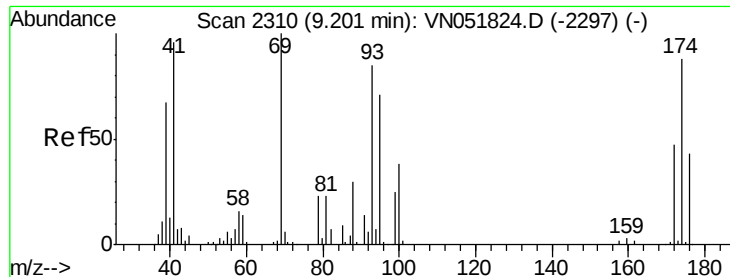
MMDadoda
10/15/2018 11:27:59 AM



#44
Isopropyl Acetate
Concen: 10.43 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Tgt Ion: 43 Resp: 90051
Ion Ratio Lower Upper
43 100
61 19.5 15.9 23.9





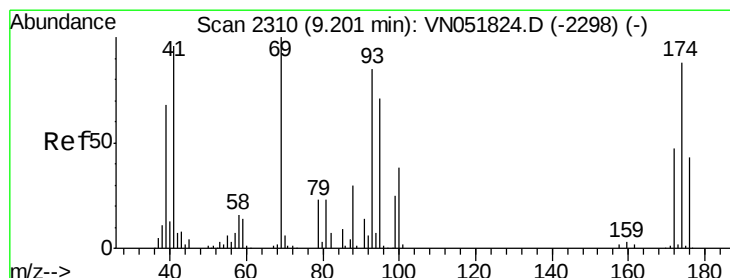
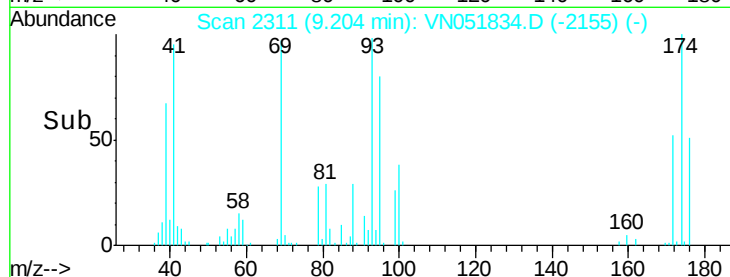
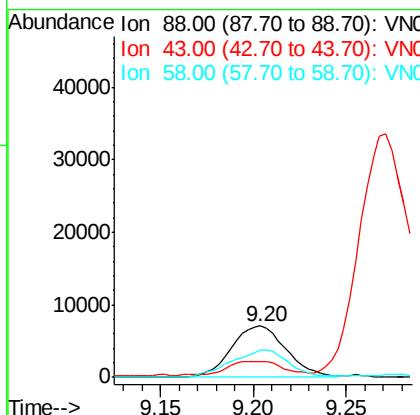
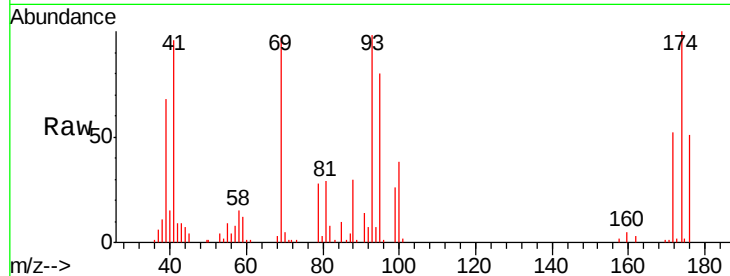
#45
1,4-Dioxane
Concen: 209.04 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	14492		
43	15.1	26.2	39.2#	
58	55.9	65.6	98.4#	

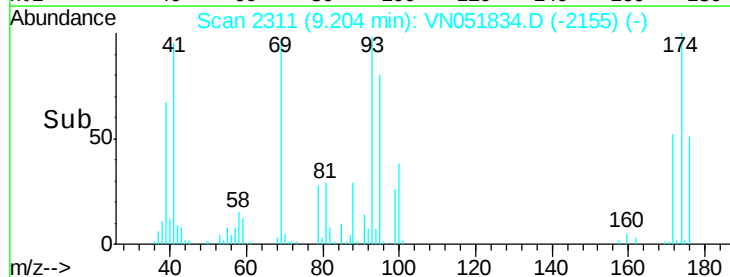
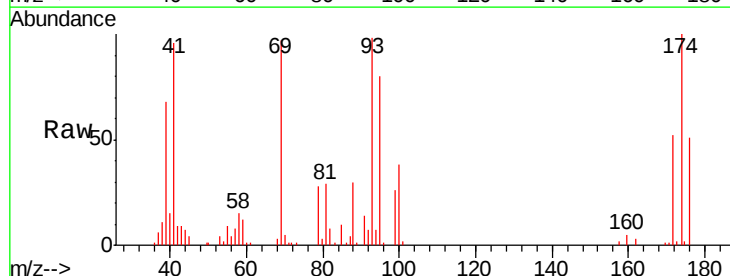
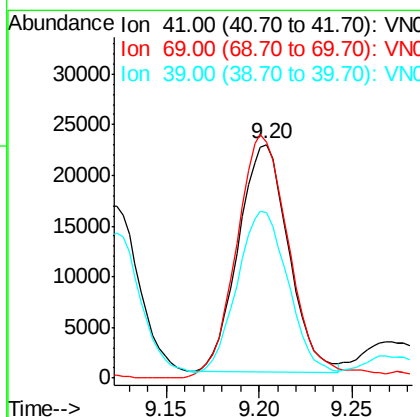
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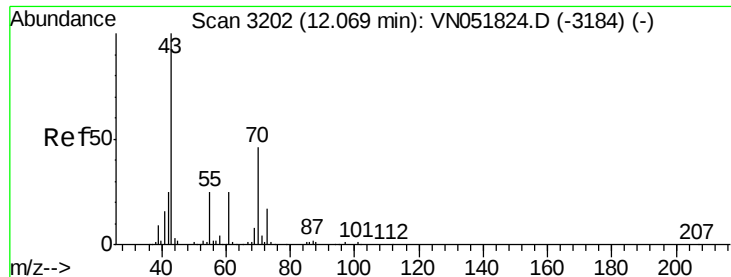
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#46
Methyl methacrylate
Concen: 10.57 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	42111		
69	102.6	40.7	122.1	
39	69.7	27.3	81.9	





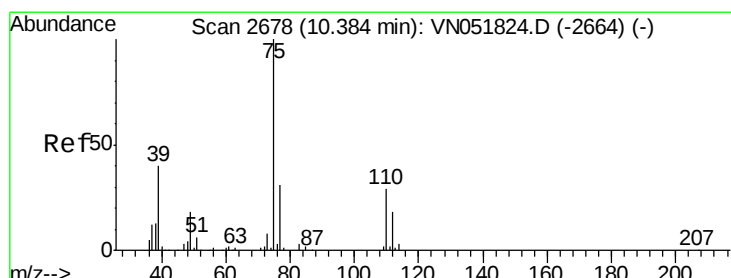
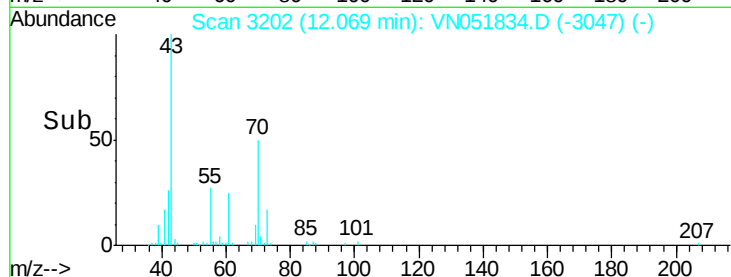
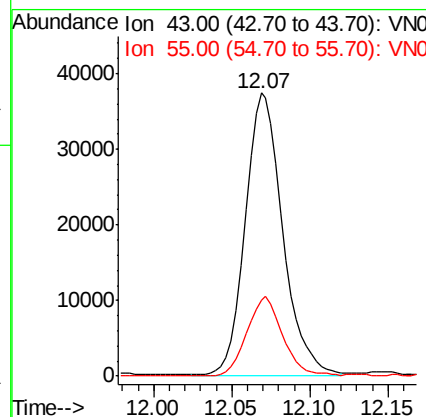
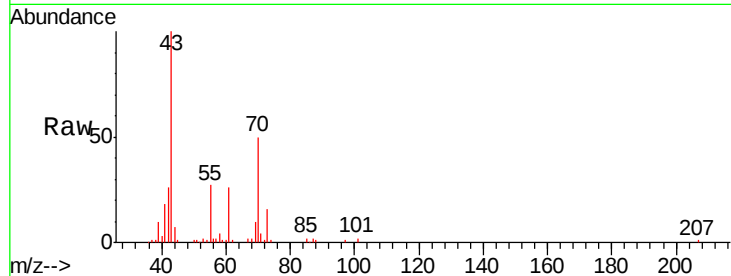
#47
n-amyl Acetate
Concen: 8.77 ug/l m
RT: 12.07 min Scan# 3202
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion: 43 Resp: 63393
Ion Ratio Lower Upper
43 100
55 0.1 12.2 18.4#

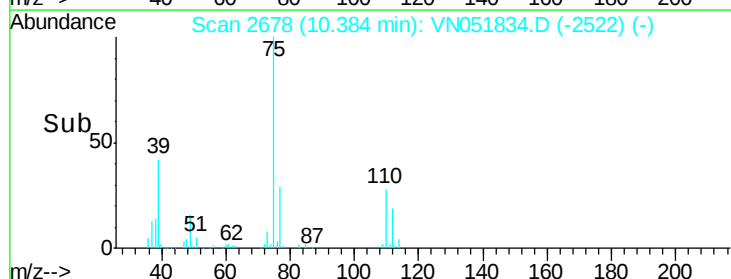
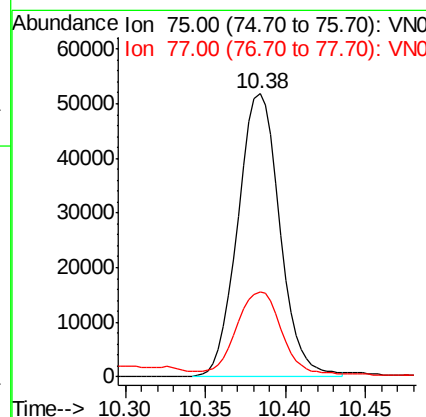
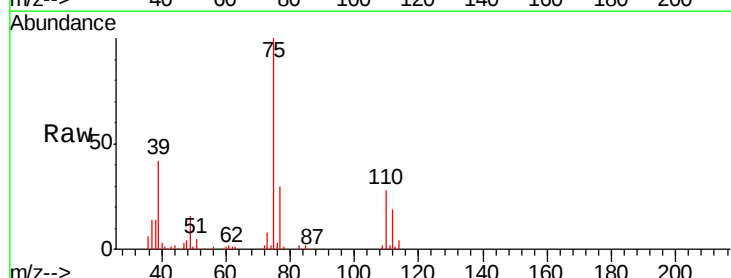
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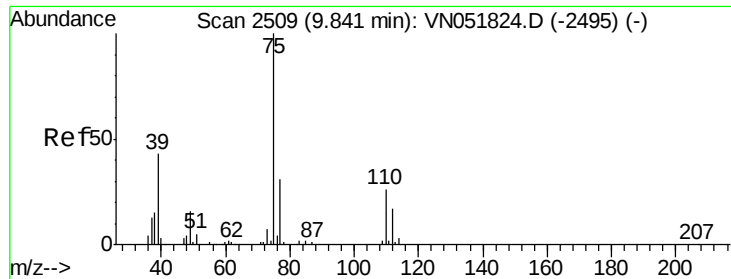
MMDadoda
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#48
t-1,3-Dichloropropene
Concen: 9.38 ug/l
RT: 10.38 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Tgt Ion: 75 Resp: 93018
Ion Ratio Lower Upper
75 100
77 29.1 24.6 37.0





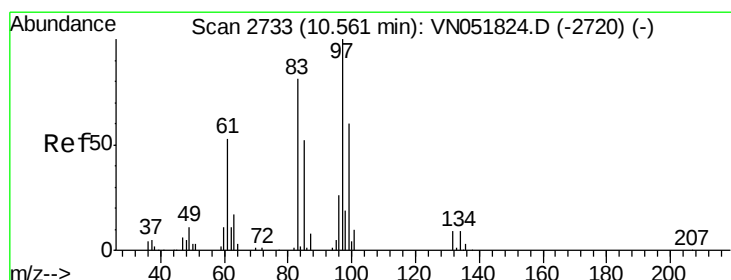
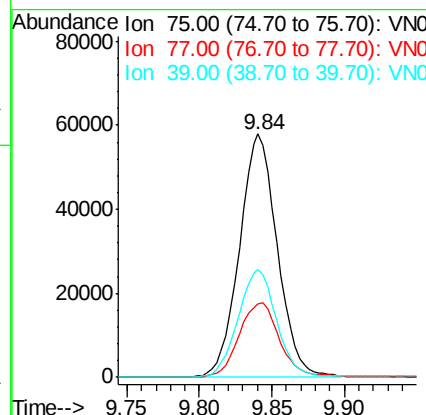
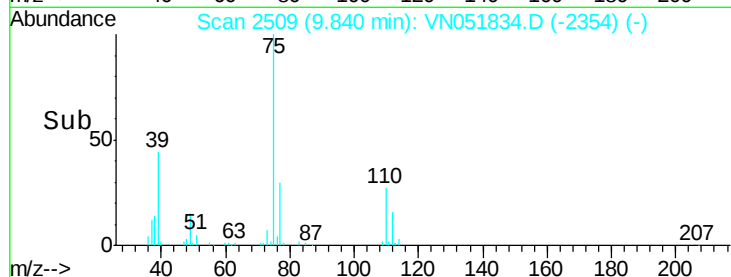
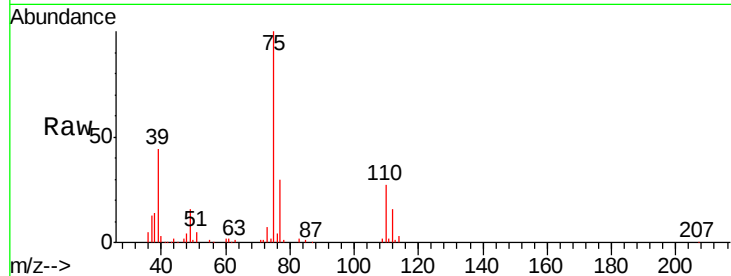
#49
 cis-1,3-Dichloropropene
 Concen: 9.64 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. -0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
75	100		
77	30.3	23.2	34.8
39	43.9	34.6	52.0

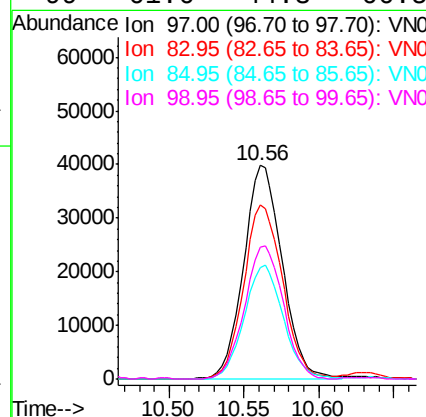
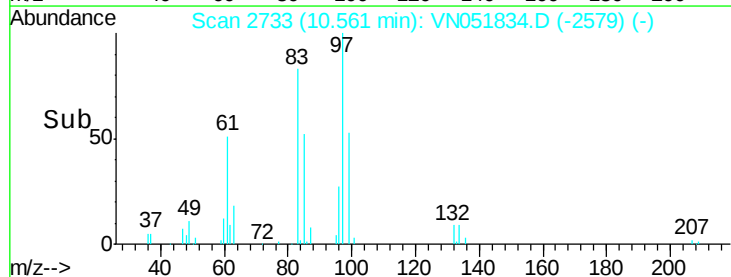
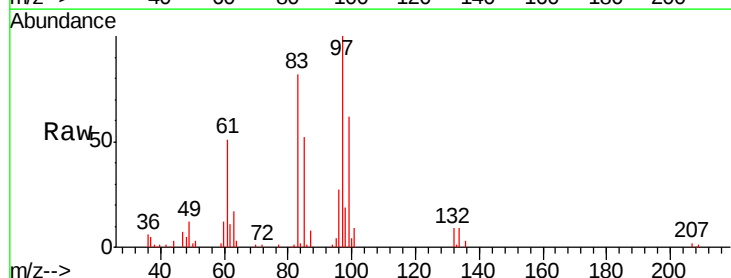
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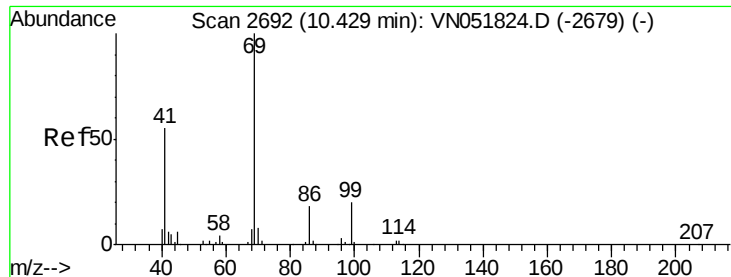
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#50
 1,1,2-Trichloroethane
 Concen: 10.52 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Tgt Ion	Ratio	Lower	Upper
97	100		
83	81.6	68.2	102.4
85	52.1	42.5	63.7
99	61.6	44.3	66.5





#51

Ethyl methacrylate

Concen: 10.13 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

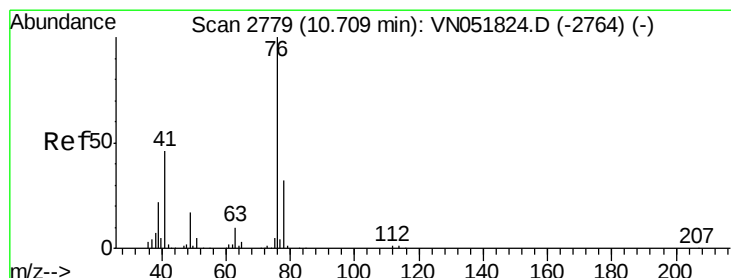
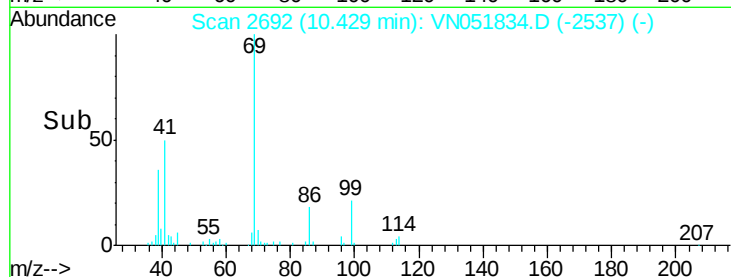
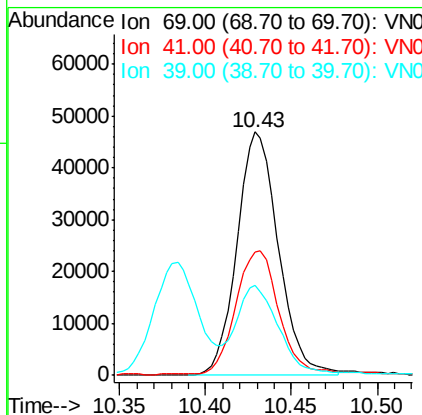
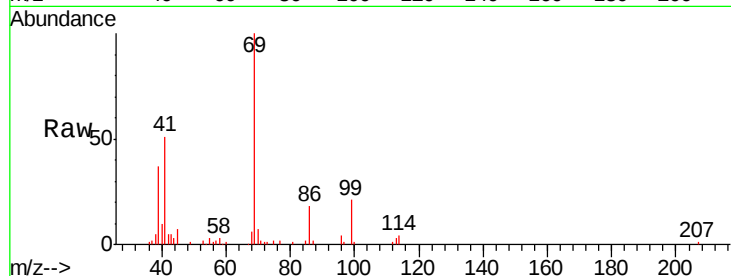
ClientSampleId :

LOQ-WATER-02-QT4-2018

Tgt Ion:	69	Resp:	78885
Ion	Ratio	Lower	Upper
69	100		
41	49.9	34.4	103.1
39	36.0	16.3	48.8

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#52

1,3-Dichloropropane

Concen: 10.43 ug/l

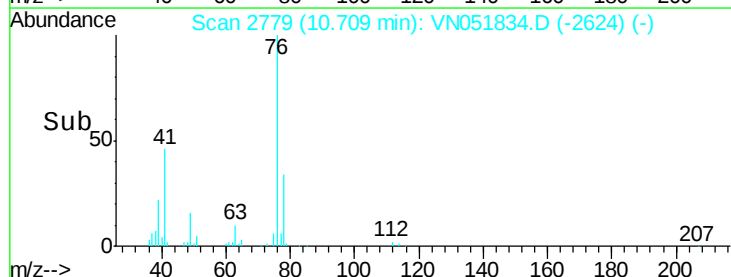
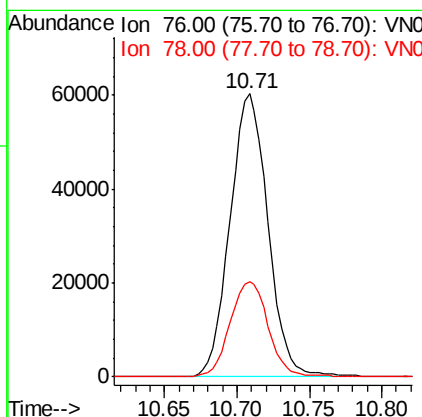
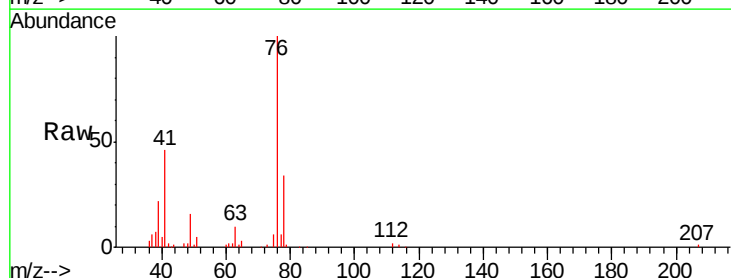
RT: 10.71 min Scan# 2779

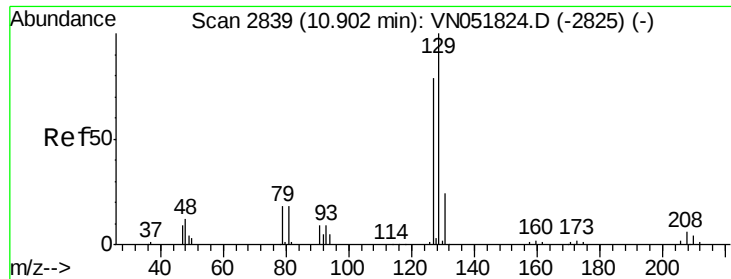
Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Tgt Ion:	76	Resp:	109528
Ion	Ratio	Lower	Upper
76	100		
78	33.6	0.0	67.6





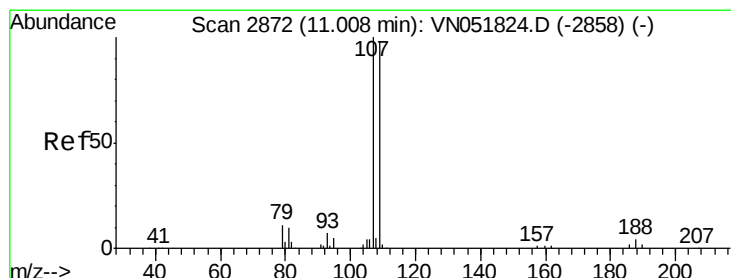
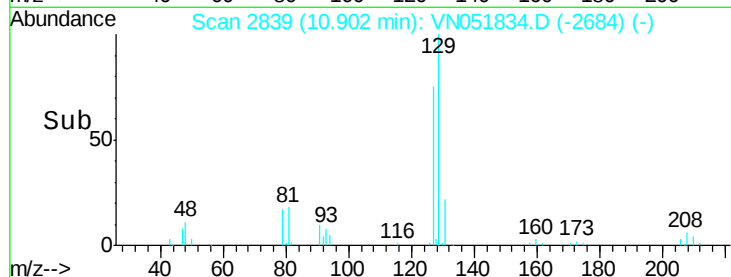
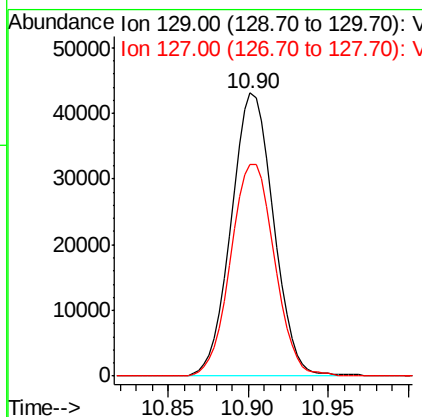
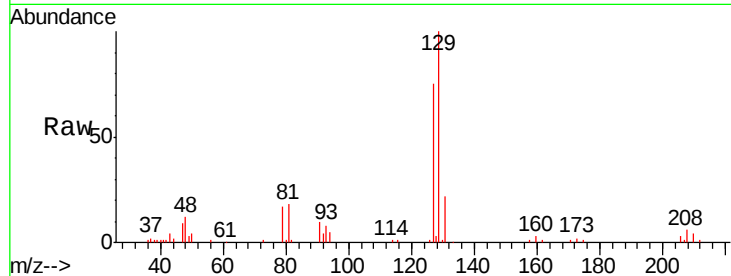
#53
Dibromochloromethane
Concen: 9.25 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion:129 Resp: 77813
Ion Ratio Lower Upper
129 100
127 77.6 40.2 120.5

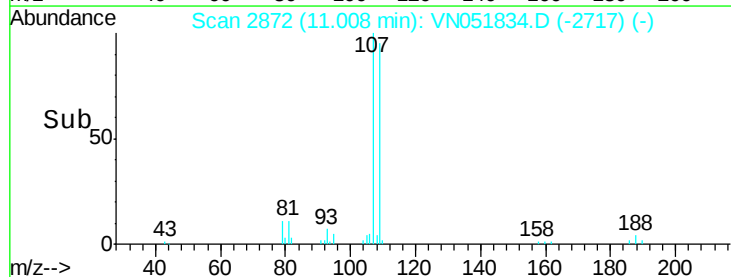
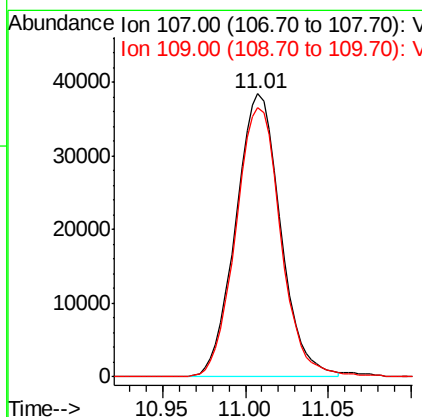
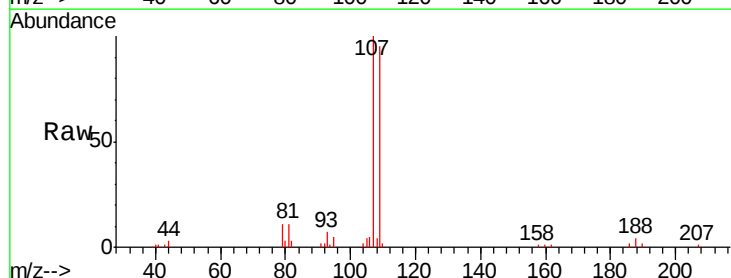
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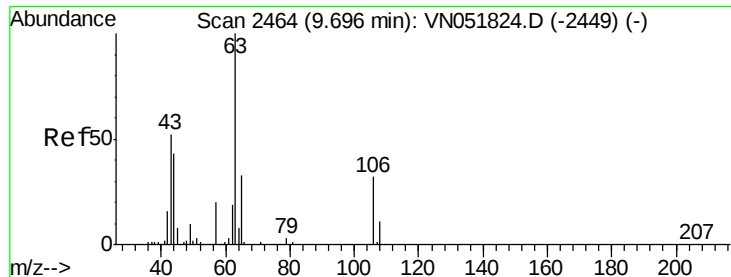
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#54
1,2-Dibromoethane
Concen: 10.13 ug/l
RT: 11.01 min Scan# 2872
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Tgt Ion:107 Resp: 72345
Ion Ratio Lower Upper
107 100
109 95.9 77.4 116.0





#55

2-Chloroethyl vinyl ether

Concen: 49.19 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

Tgt Ion: 63 Resp: 163810
Ion Ratio Lower Upper

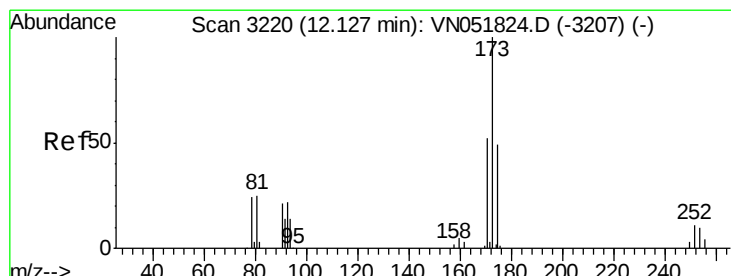
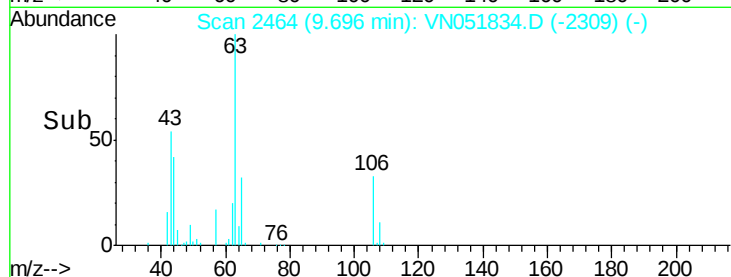
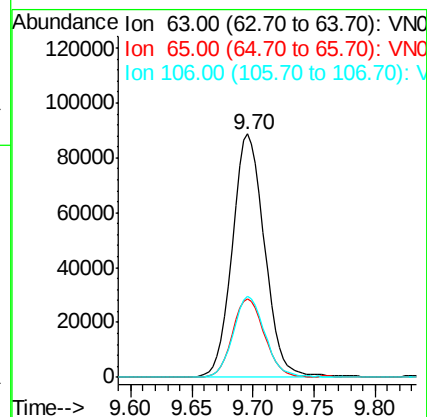
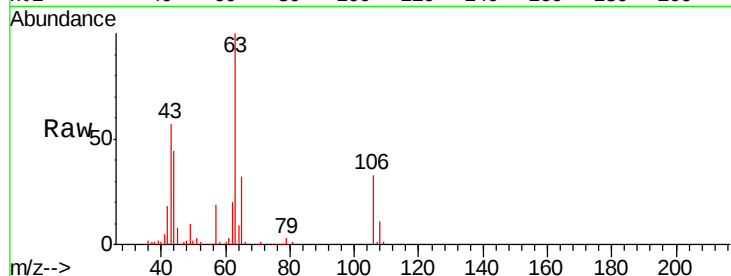
63 100

65 32.2 25.4 38.0

106 32.7 21.2 31.8#

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#56

Bromoform

Concen: 8.27 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN051834.D

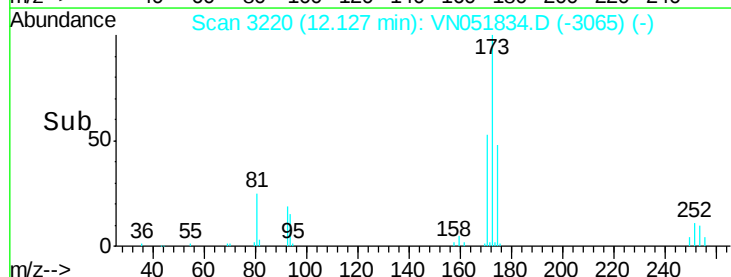
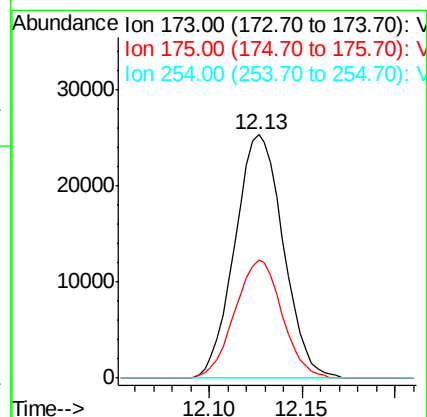
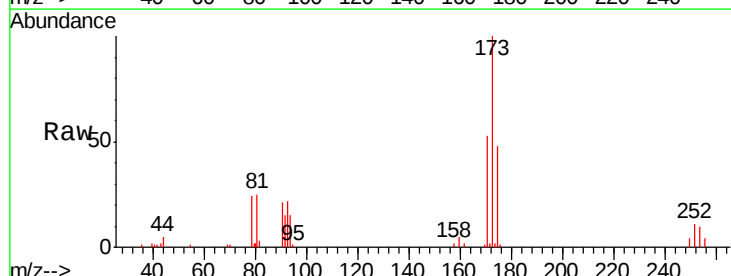
Acq: 12 Oct 2018 15:50

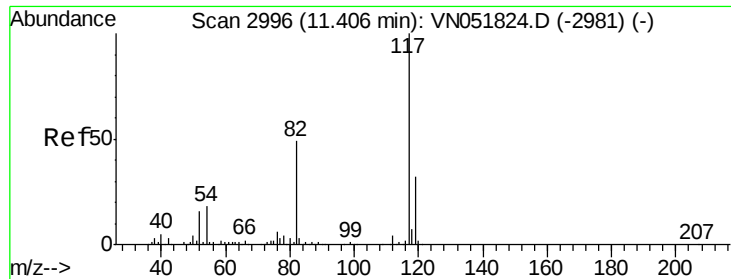
Tgt Ion: 173 Resp: 45929
Ion Ratio Lower Upper

173 100

175 47.2 35.8 53.8

254 0.0 8.6 13.0#





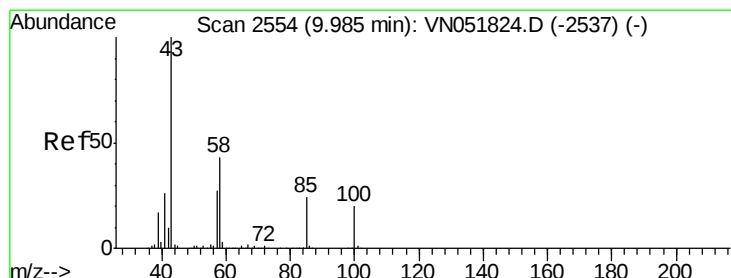
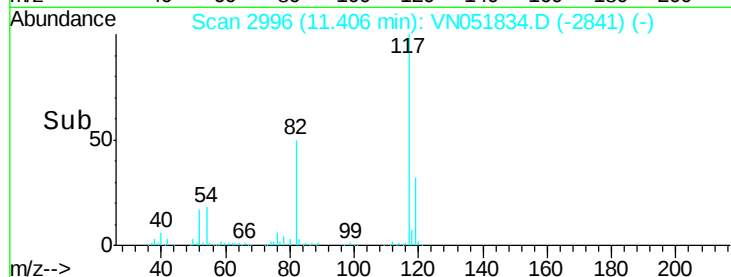
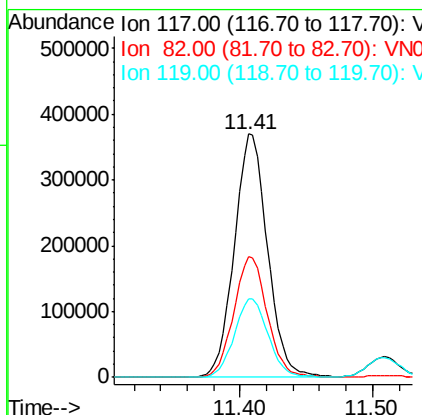
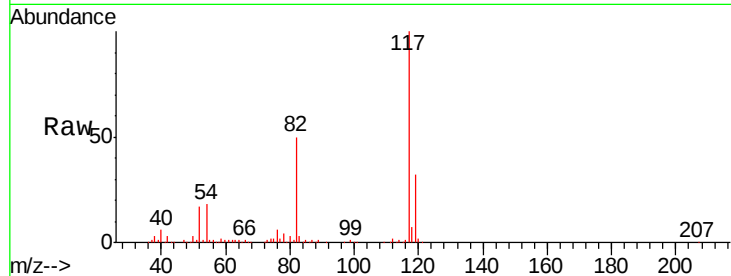
#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Resp Lower	Resp Upper
117	100		
82	50.1	44.1	66.1
119	32.9	25.8	38.8

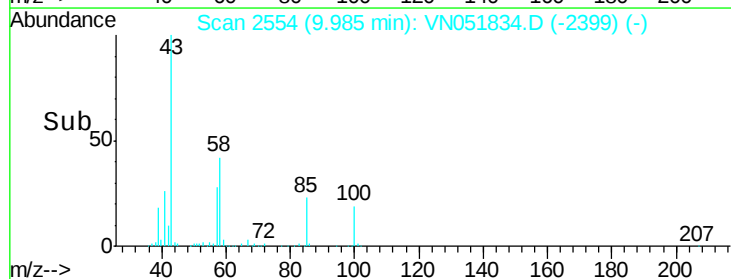
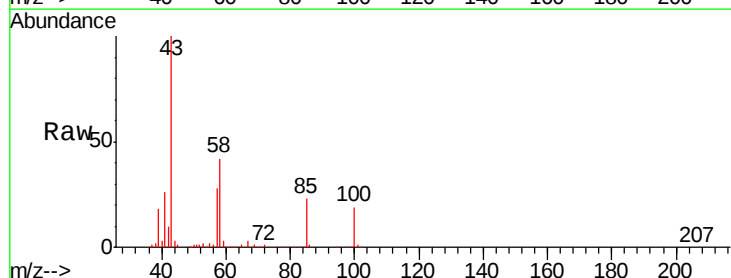
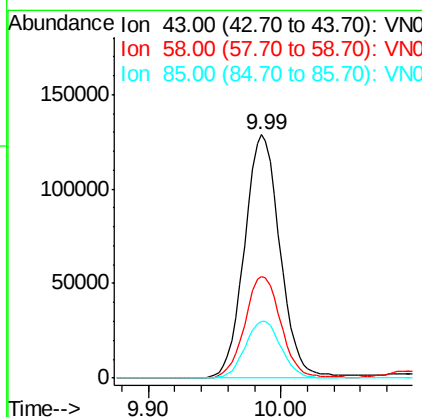
Manual Integrations
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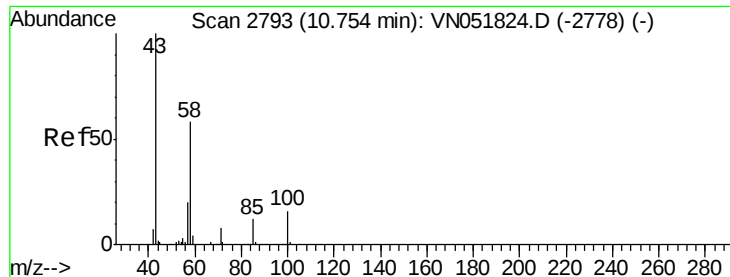
MMDadoda
10/15/2018 11:27:59 AM



#58
4-Methyl-2-Pentanone
Concen: 55.29 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Tgt Ion	Ratio	Resp Lower	Resp Upper
43	100		
58	42.4	29.3	43.9
85	23.6	12.6	18.8





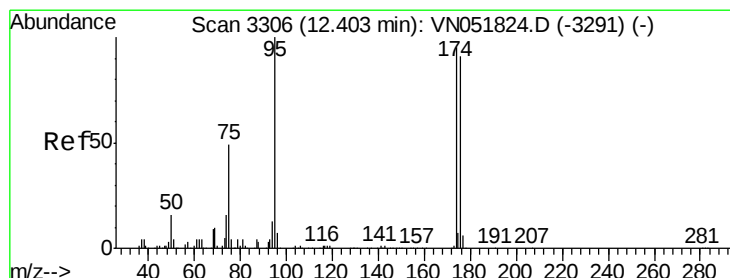
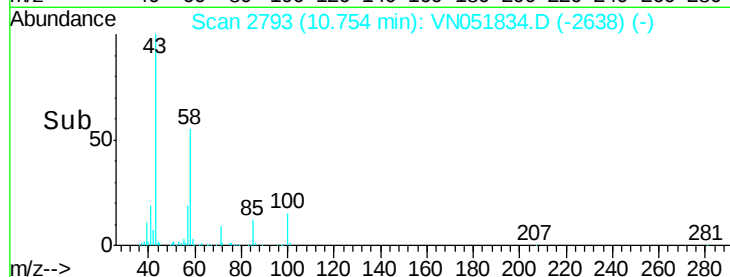
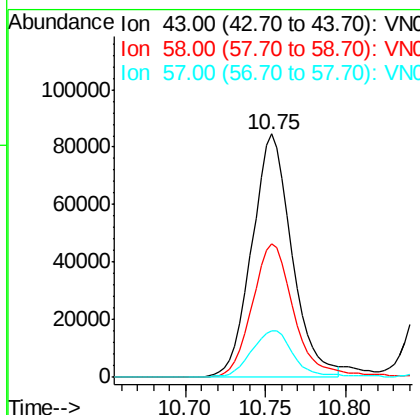
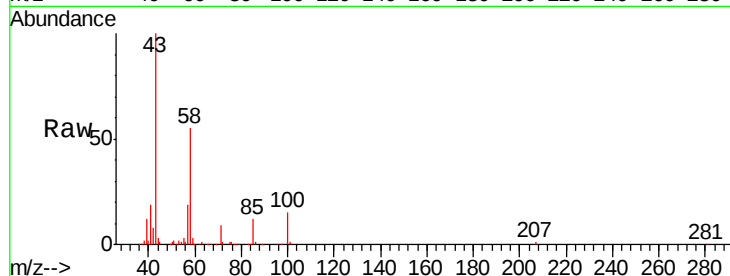
#59
2-Hexanone
Concen: 49.80 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
43	100		
58	58.2	41.3	61.9
57	20.4	13.4	20.0

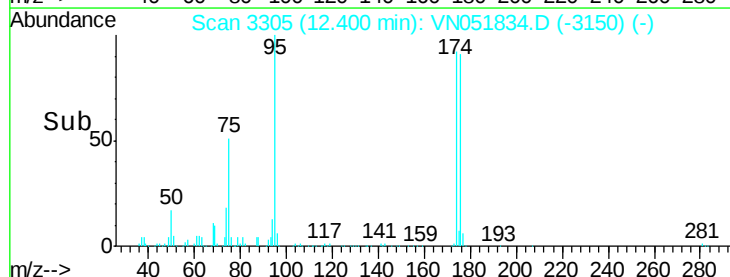
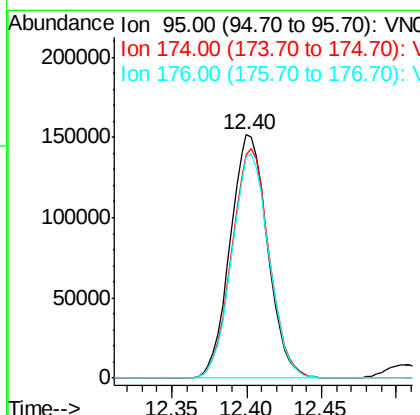
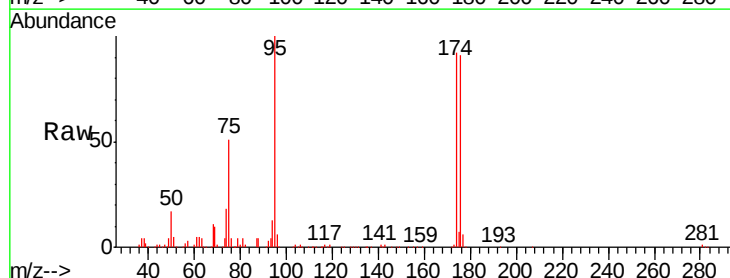
Manual Integrations
APPROVED

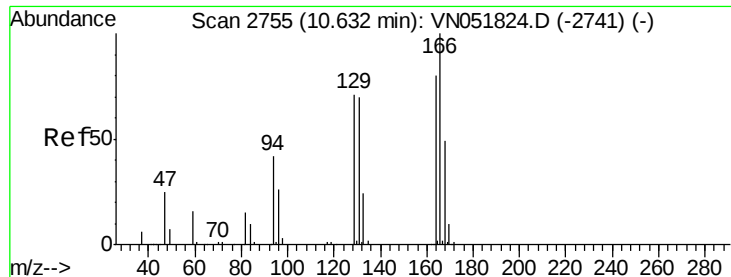
MMDadoda
10/15/2018 11:27:59 AM



#60
4-Bromofluorobenzene
Concen: 49.80 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Tgt Ion	Ratio	Lower	Upper
95	100		
174	94.4	73.5	110.3
176	91.9	70.2	105.2





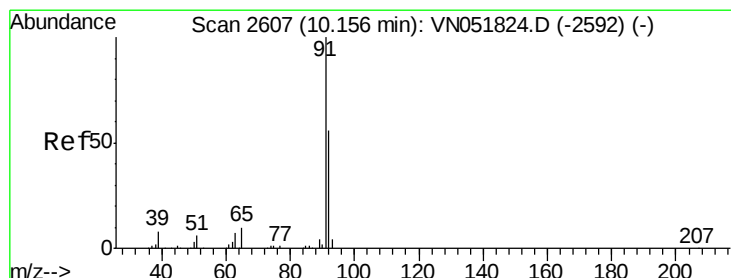
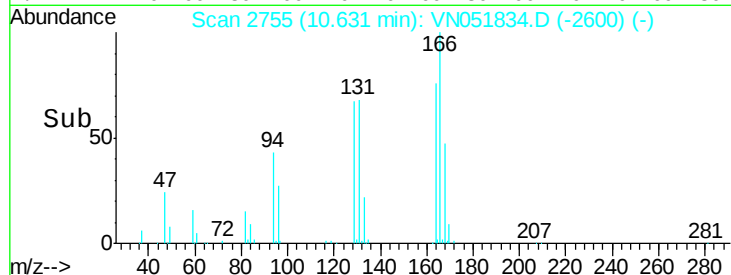
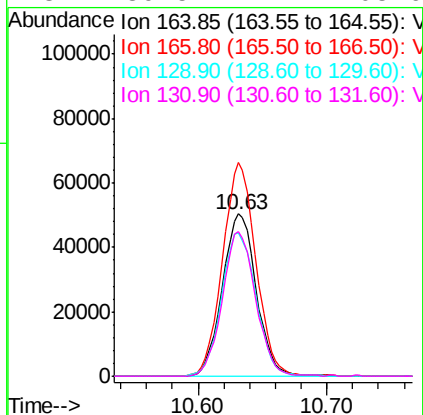
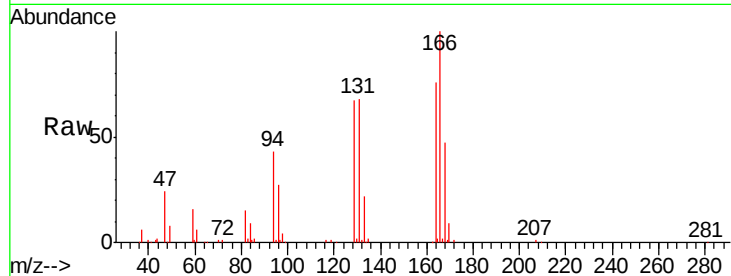
#61
Tetrachloroethene
Concen: 11.17 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
166	131.6	91881	98.7	148.1
129	88.0		69.6	104.4
131	89.5		72.4	108.6

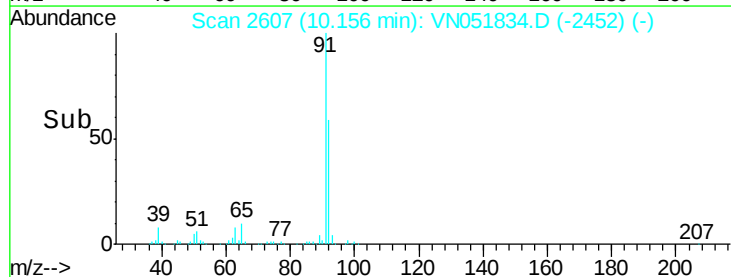
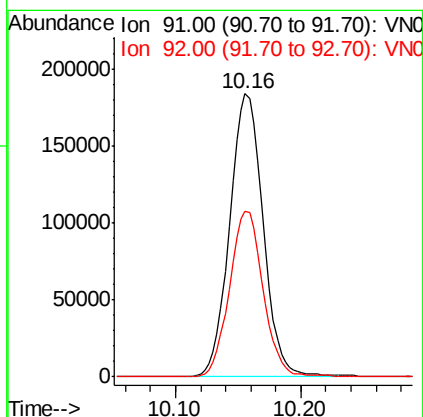
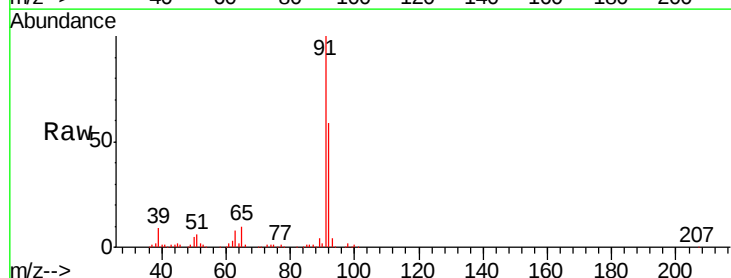
Manual Integrations
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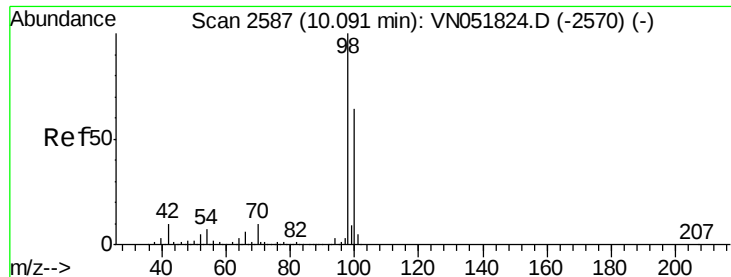
MMDadoda
10/15/2018 11:27:59 AM



#62
Toluene
Concen: 10.67 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	340792		
92	58.6		44.6	66.8





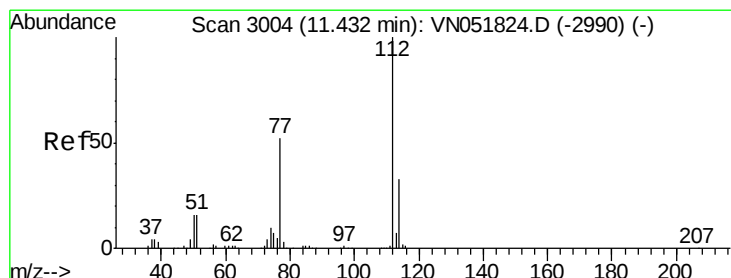
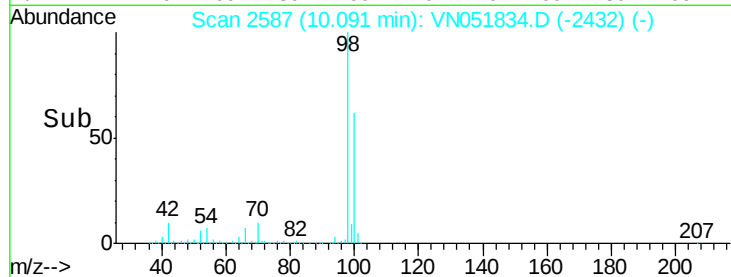
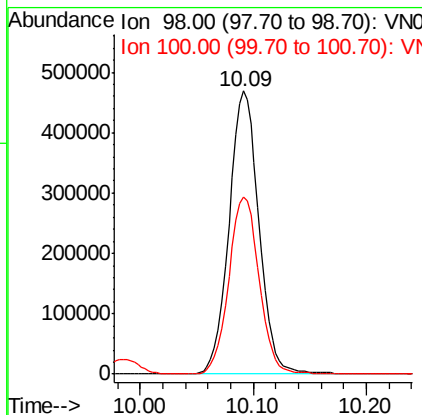
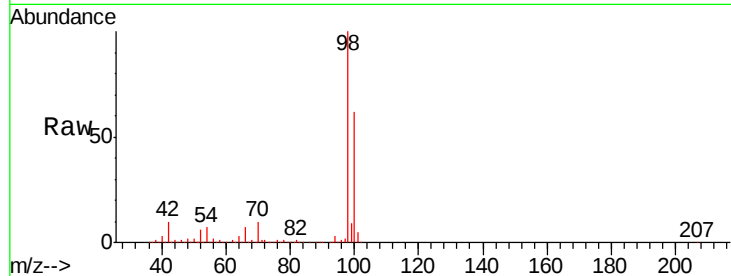
#63
Toluene-d8
Concen: 10.67 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion: 98 Resp: 861369
Ion Ratio Lower Upper
98 100
100 63.5 50.8 76.2

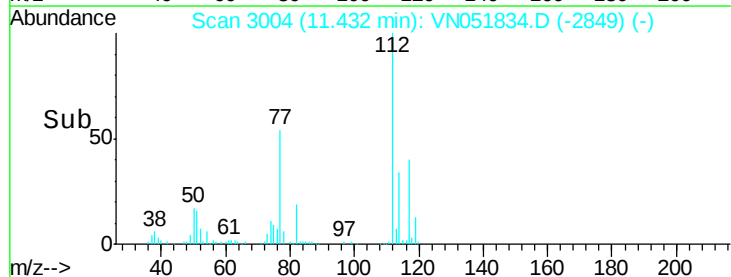
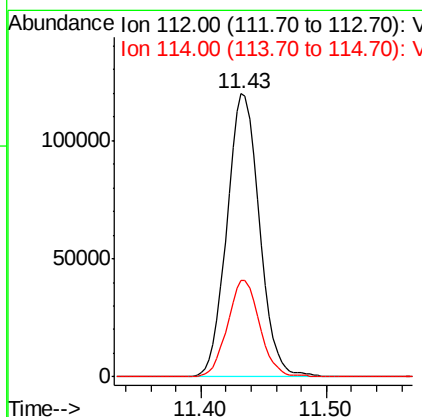
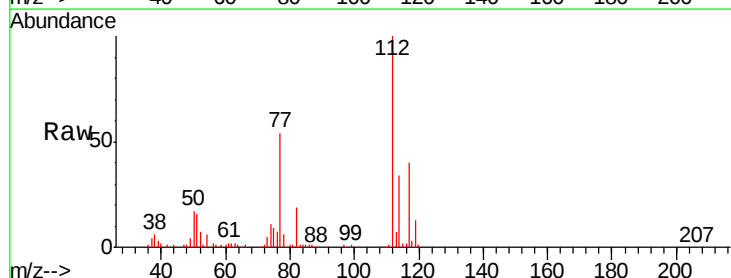
Manual Integrations
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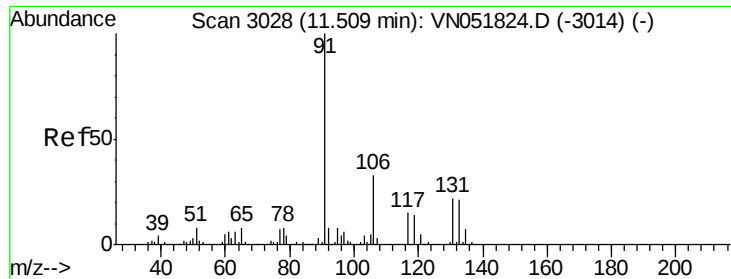
MMDadoda
10/15/2018 11:27:59 AM



#64
Chlorobenzene
Concen: 10.34 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Tgt Ion: 112 Resp: 216222
Ion Ratio Lower Upper
112 100
114 34.1 27.5 41.3





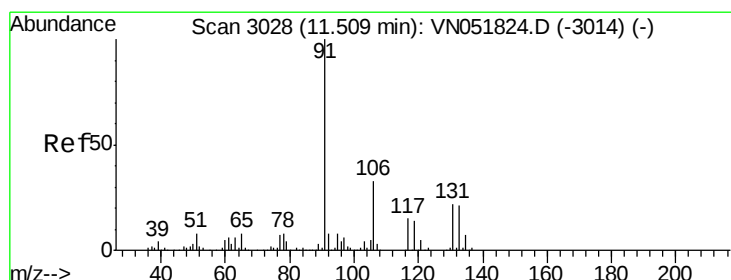
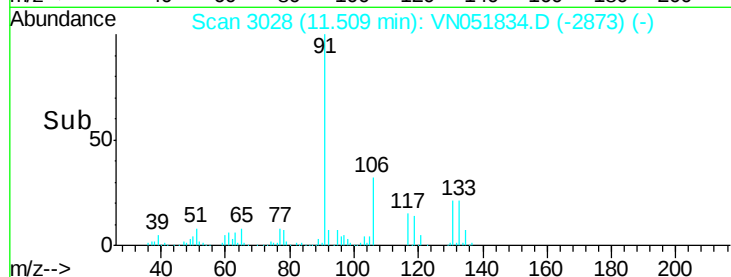
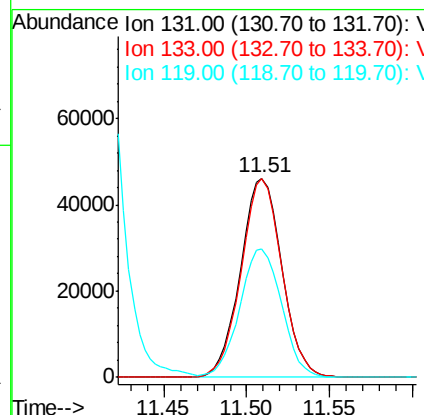
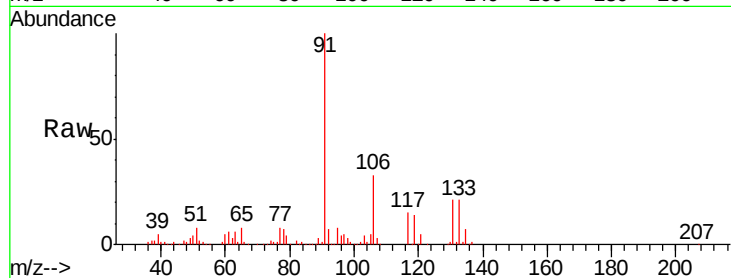
#65
 1,1,1,2-Tetrachloroethane
 Concen: 10.03 ug/l
 RT: 11.51 min Scan# 3028
 Delta R.T. -0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
131	100		
133	97.5	0.0	190.4
119	65.1	0.0	128.0

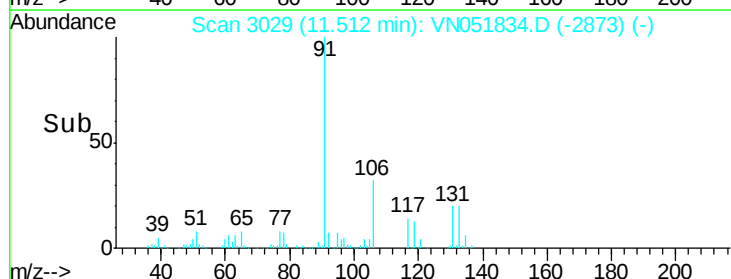
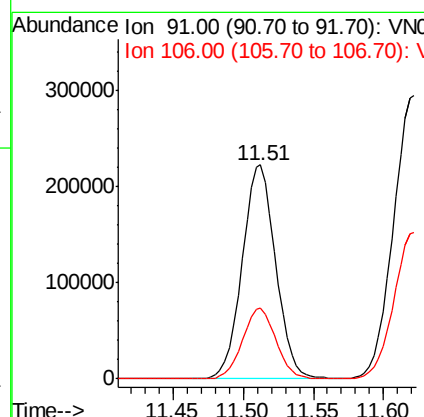
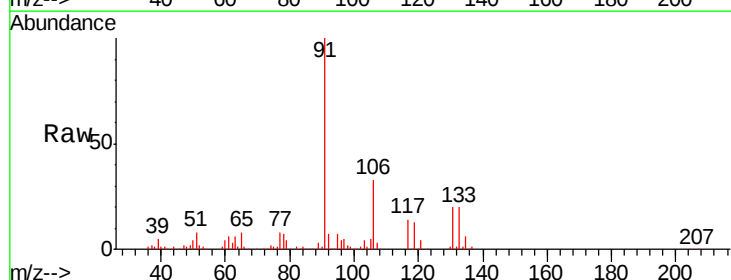
Manual Integrations
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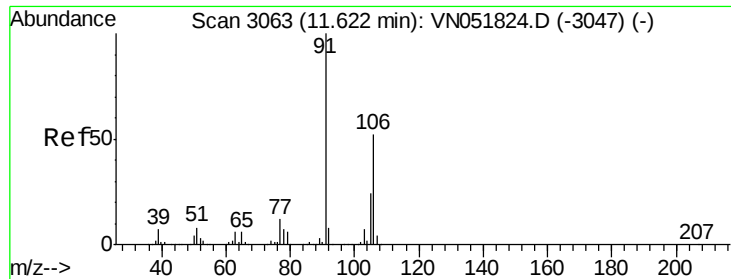
MMDadoda
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#66
 Ethyl Benzene
 Concen: 10.48 ug/l
 RT: 11.51 min Scan# 3029
 Delta R.T. 0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Tgt Ion	Ratio	Lower	Upper
91	100		
106	33.1	25.9	38.9





#67

m/p-Xylenes

Concen: 20.46 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

Tgt Ion:106 Resp: 292785

Ion Ratio Lower Upper

106 100

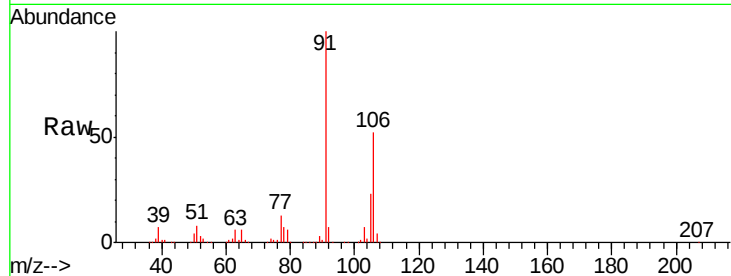
91 198.2 158.8 238.2

Manual Integrations

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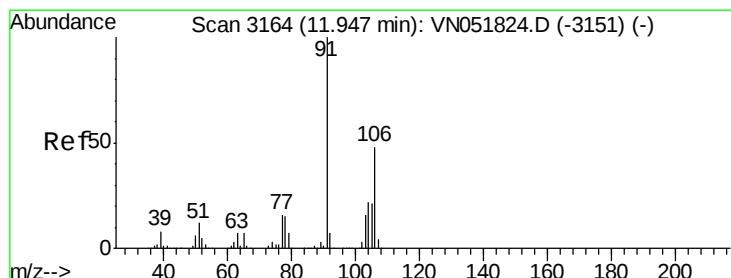
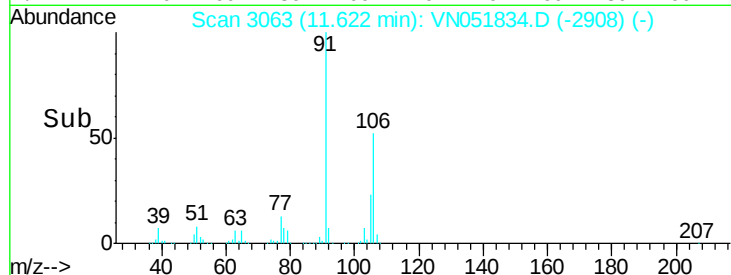
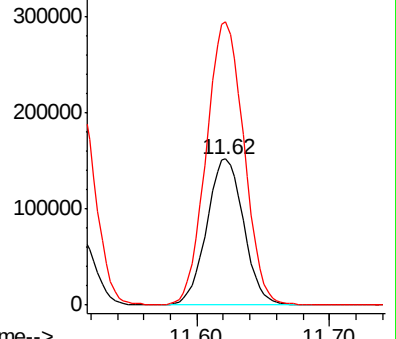
MMDadoda

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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0



#68

o-Xylene

Concen: 10.33 ug/l

RT: 11.95 min Scan# 3165

Delta R.T. 0.00 min

Lab File: VN051834.D

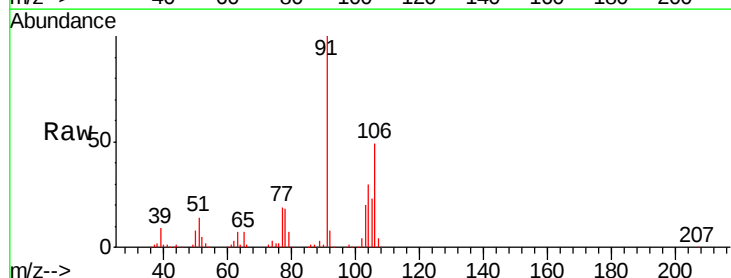
Acq: 12 Oct 2018 15:50

Tgt Ion:106 Resp: 145723

Ion Ratio Lower Upper

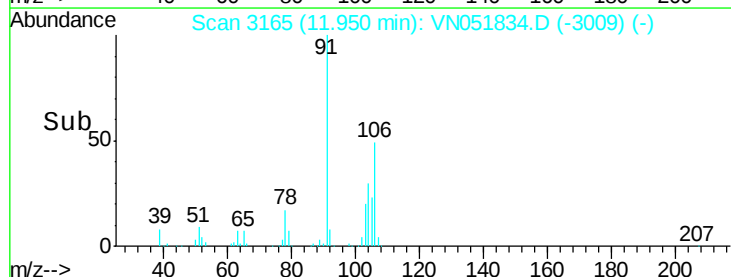
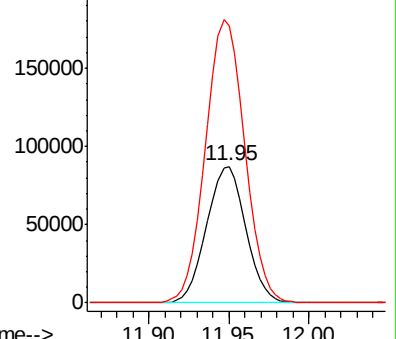
106 100

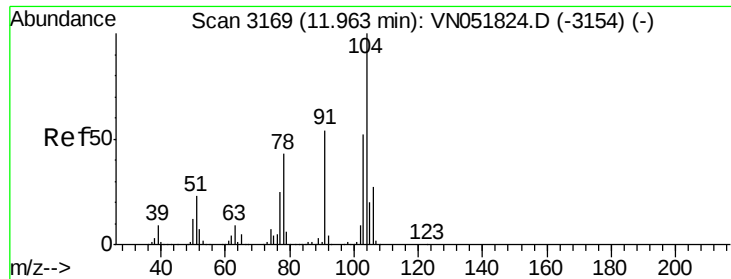
91 207.7 111.1 333.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0





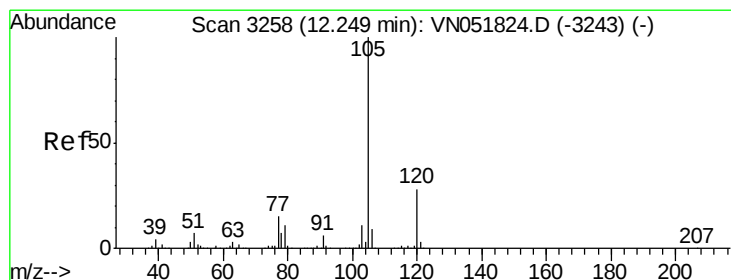
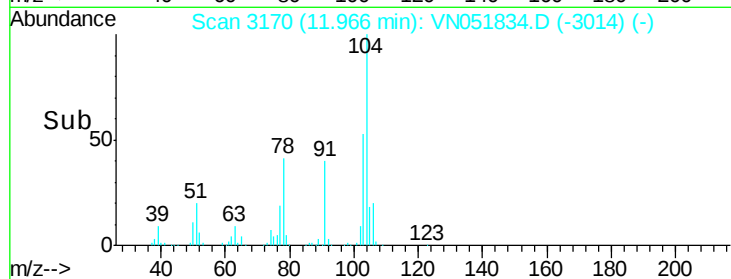
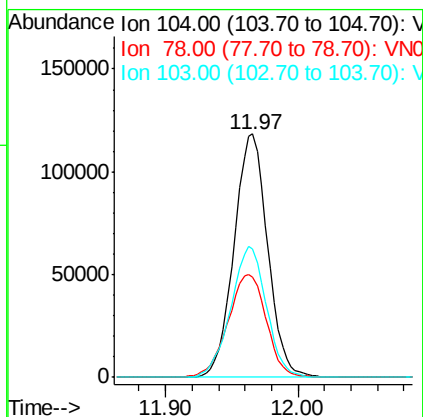
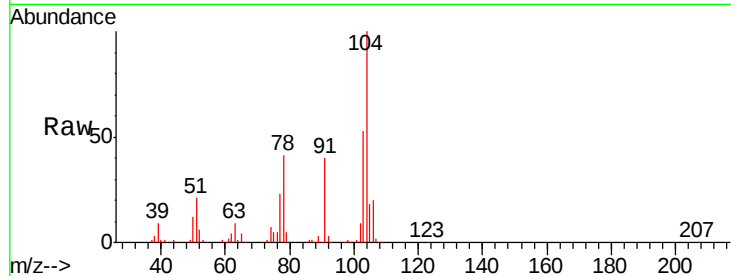
#69
Styrene
Concen: 9.64 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	208743		
78	48.3		40.6	60.8
103	56.8		44.0	66.0

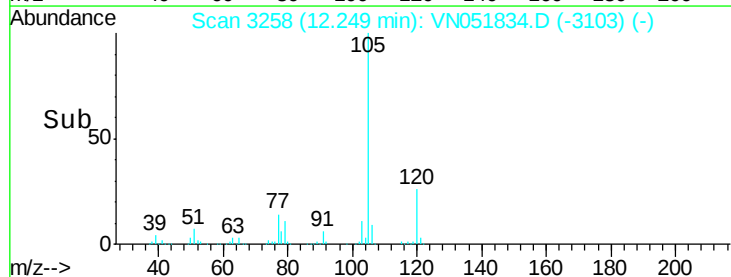
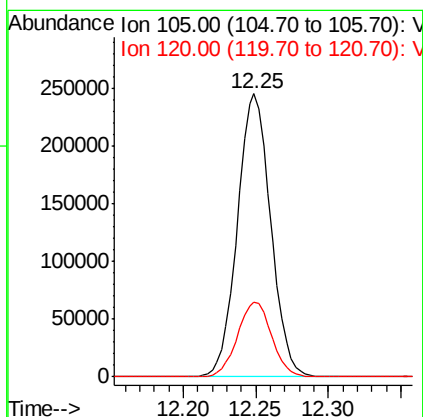
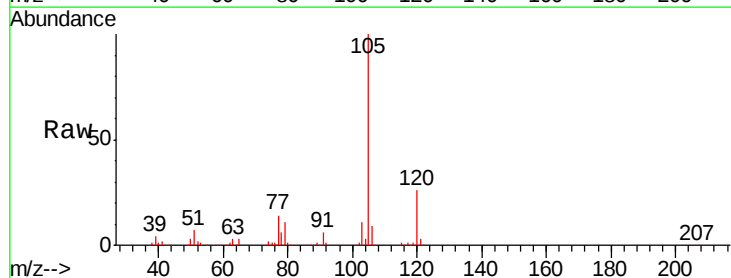
Manual Integrations
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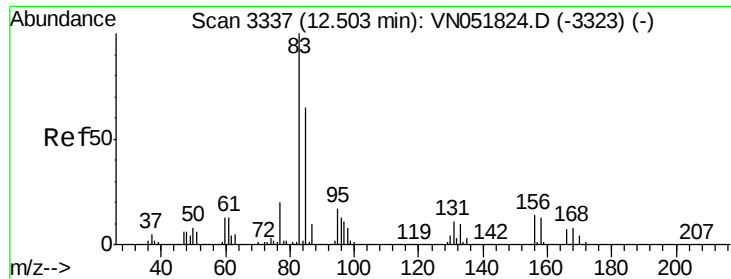
MMDadoda
10/15/2018 11:27:59 AM



#70
Isopropylbenzene
Concen: 10.38 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	390447		
120	27.1		19.0	35.4





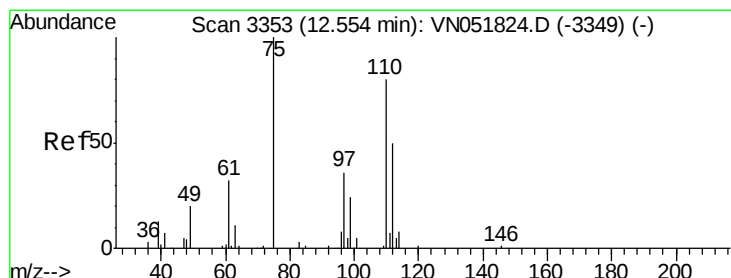
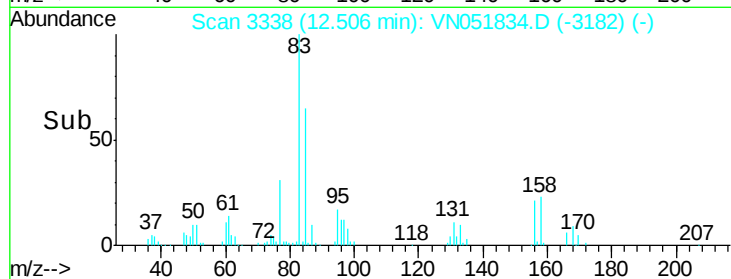
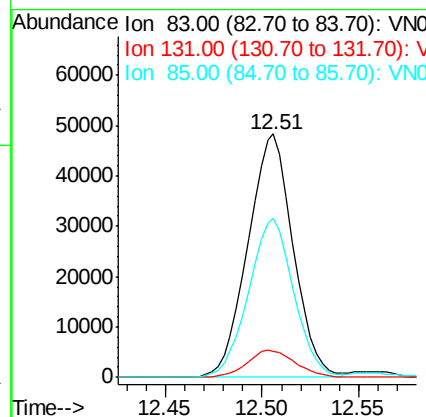
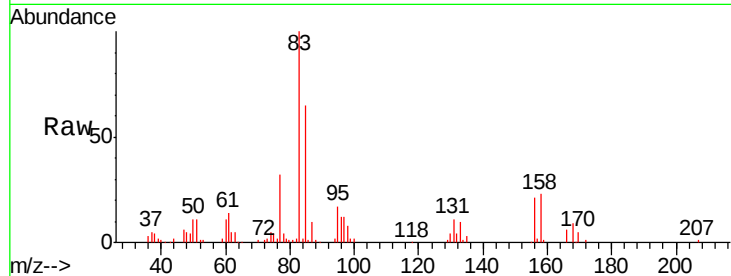
#71
 1,1,2,2-Tetrachloroethane
 Concen: 10.58 ug/l
 RT: 12.51 min Scan# 3338
 Delta R.T. 0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
83	100		
131	11.8	5.5	16.4
85	65.1	30.6	91.8

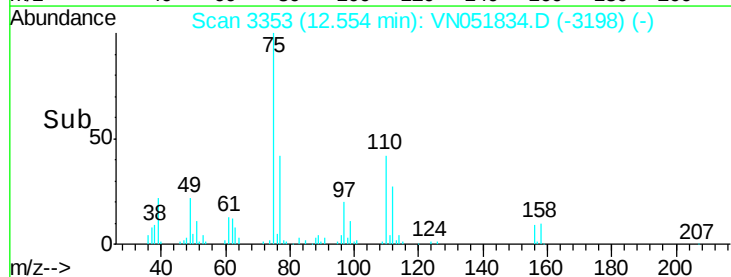
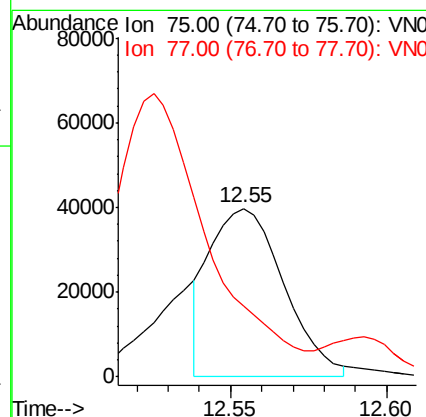
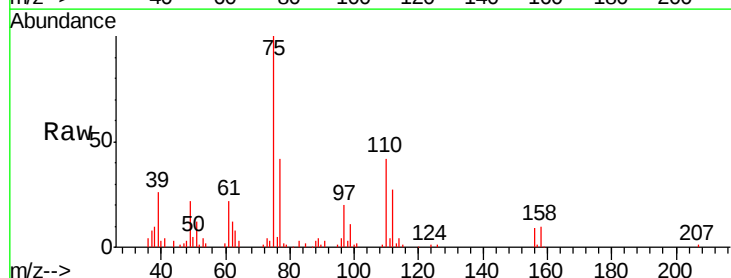
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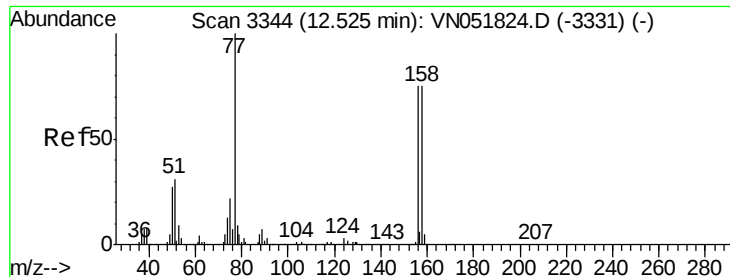
MMDadoda
 10/15/2018 11:27:59 AM



#72
 1,2,3-Trichloropropane
 Concen: 11.26 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. -0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Tgt Ion	Ratio	Lower	Upper
75	100		
77	214.3	0.0	400.0





#73

Bromobenzene

Concen: 9.51 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

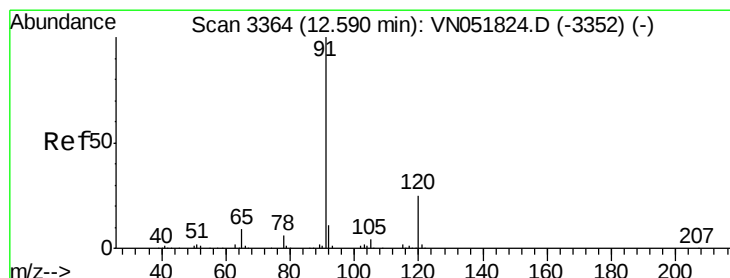
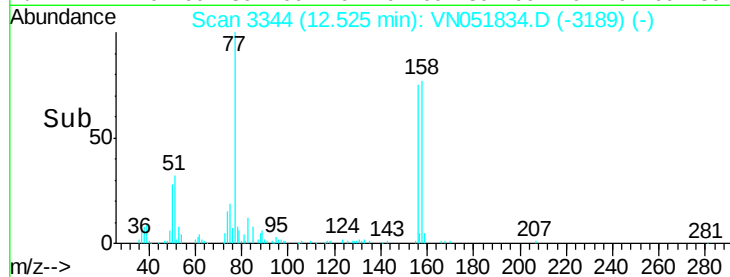
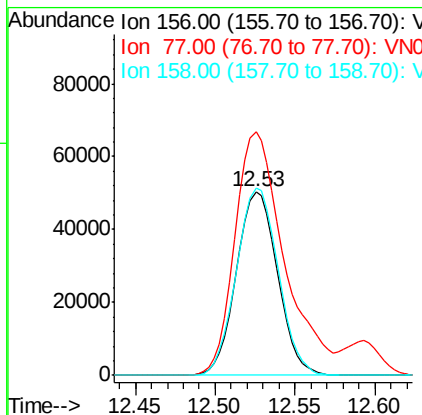
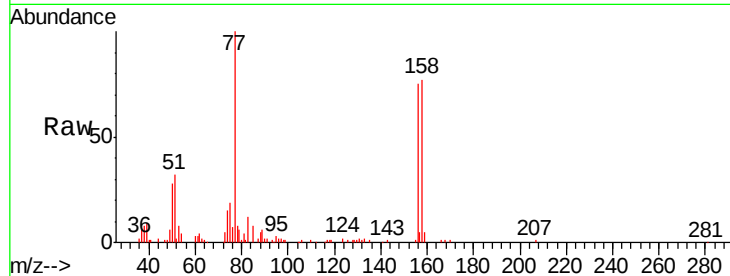
ClientSampleId :

LOQ-WATER-02-QT4-2018

Tgt Ion:	156	Resp:	88680
Ion Ratio	Lower	Upper	
156	100		
77	159.0	0.0	377.4
158	103.1	0.0	203.0

Manual Integrations
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10/15/2018 11:27:59 AM



#74

n-propylbenzene

Concen: 9.93 ug/l

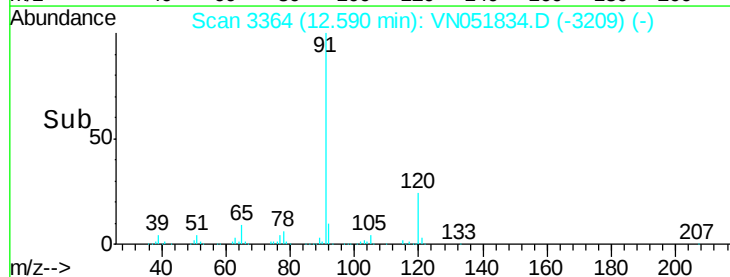
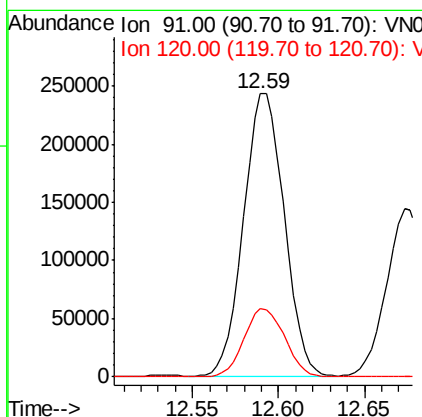
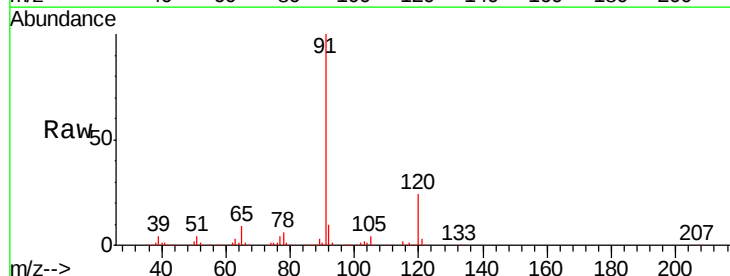
RT: 12.59 min Scan# 3364

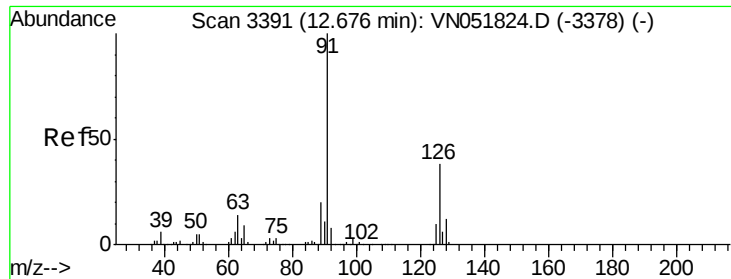
Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Tgt Ion:	91	Resp:	401926
Ion Ratio	Lower	Upper	
91	100		
120	24.1	0.0	45.0





#75

2-Chlorotoluene

Concen: 10.23 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

Tgt Ion: 91 Resp: 242633

Ion Ratio Lower Upper

91 100

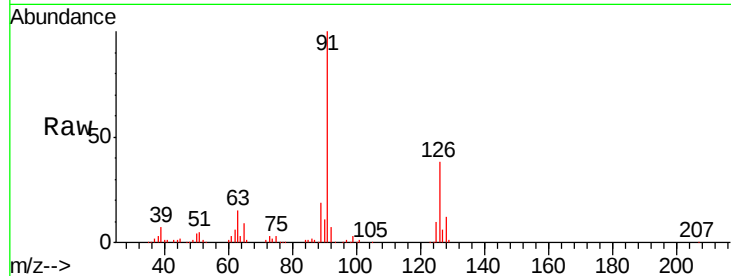
126 38.1 0.0 67.6

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Abundance Ion 91.00 (90.70 to 91.70): VN051824.D (-3378) (-)

Ion 126.00 (125.70 to 126.70): VN051824.D (-3378) (-)

200000

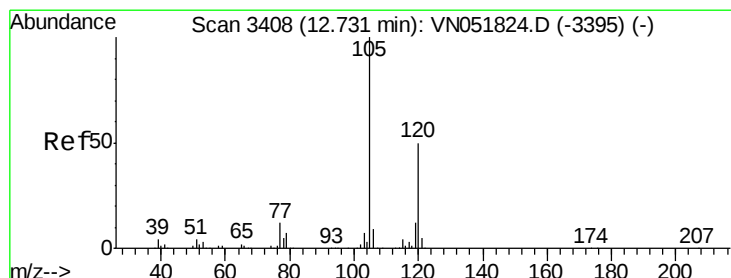
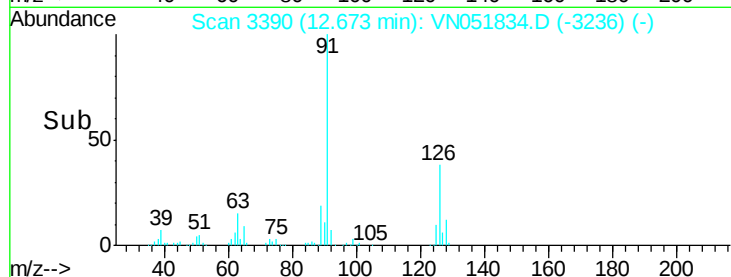
150000

100000

50000

0

Time--> 12.60 12.65 12.70



#76

1,3,5-Trimethylbenzene

Concen: 9.96 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN051834.D

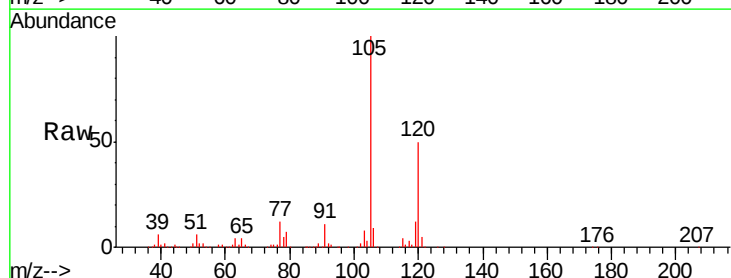
Acq: 12 Oct 2018 15:50

Tgt Ion: 105 Resp: 309759

Ion Ratio Lower Upper

105 100

120 50.4 0.0 98.2



Abundance Ion 105.00 (104.70 to 105.70): VN051824.D (-3395) (-)

Ion 120.00 (119.70 to 120.70): VN051824.D (-3395) (-)

200000

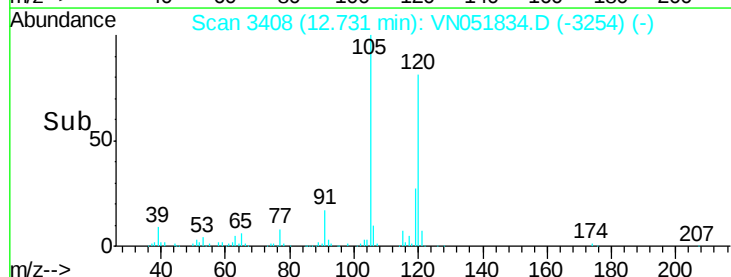
150000

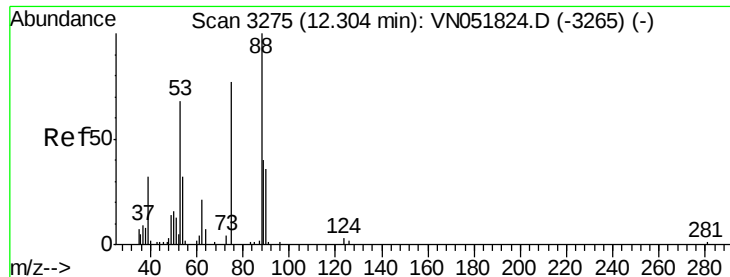
100000

50000

0

Time--> 12.65 12.70 12.75 12.80





#77

t-1,4-Dichloro-2-butene

Concen: 7.83 ug/l

RT: 12.30 min Scan# 3275

Delta R.T. 0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Instrument :

MSVOA_N

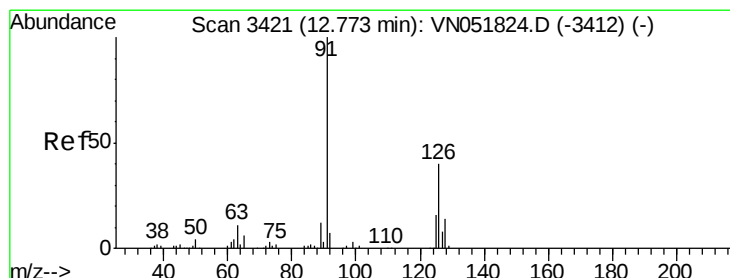
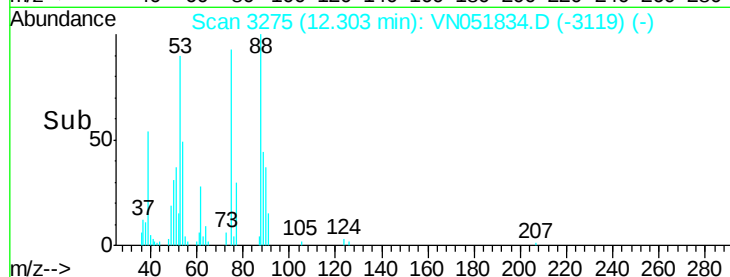
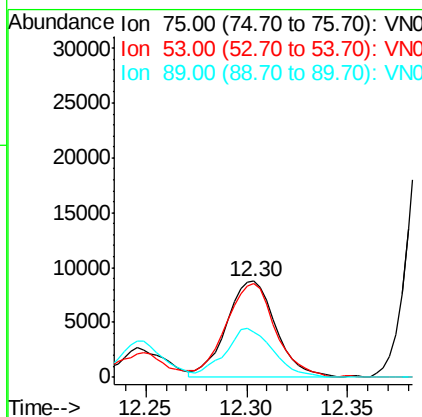
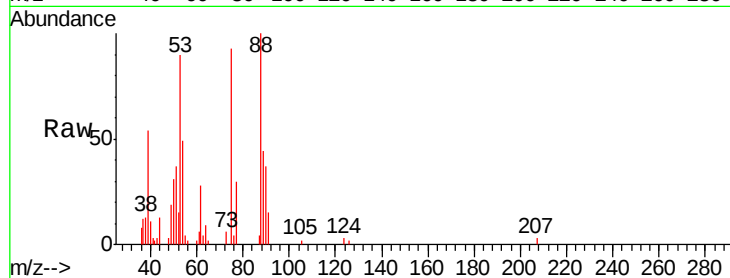
ClientSampleId :

LOQ-WATER-02-QT4-2018

Tgt Ion:	75	Resp:	15130
Ion	Ratio	Lower	Upper
75	100		
53	97.2	46.3	138.9
89	47.2	24.6	73.8

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#78

4-Chlorotoluene

Concen: 9.56 ug/l

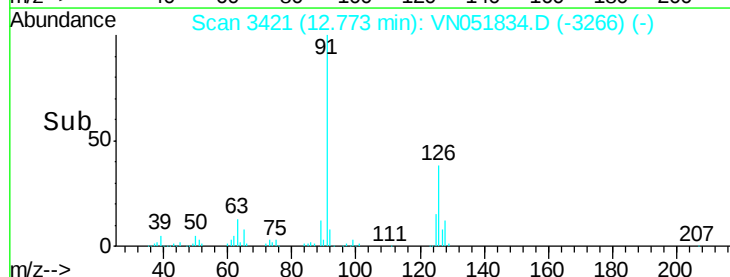
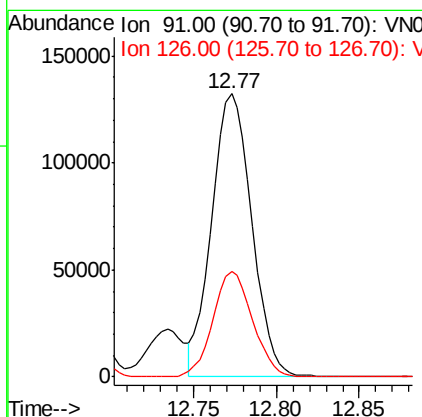
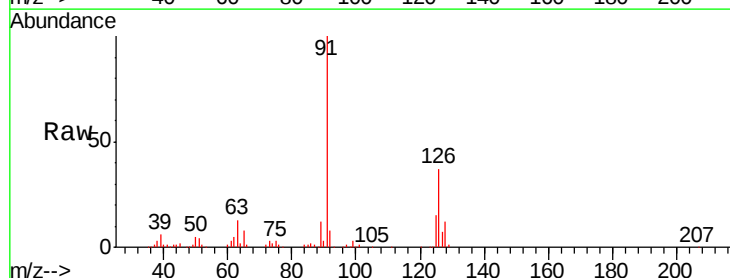
RT: 12.77 min Scan# 3421

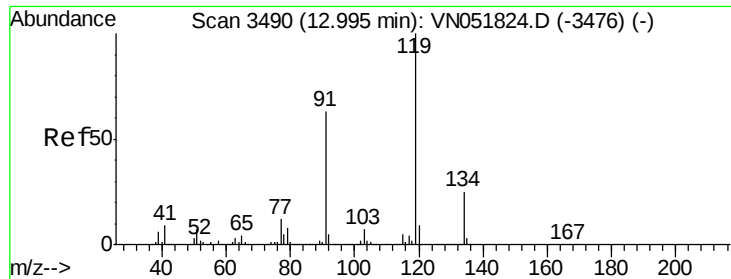
Delta R.T. -0.00 min

Lab File: VN051834.D

Acq: 12 Oct 2018 15:50

Tgt Ion:	91	Resp:	222851
Ion	Ratio	Lower	Upper
91	100		
126	36.5	0.0	65.2





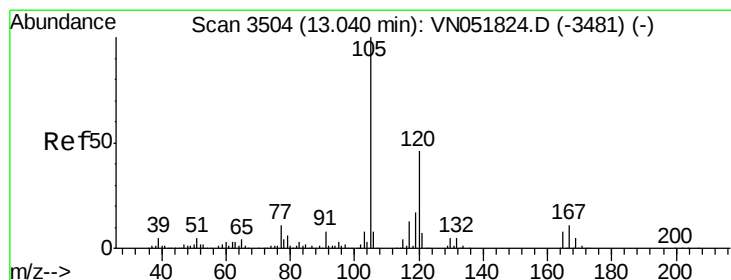
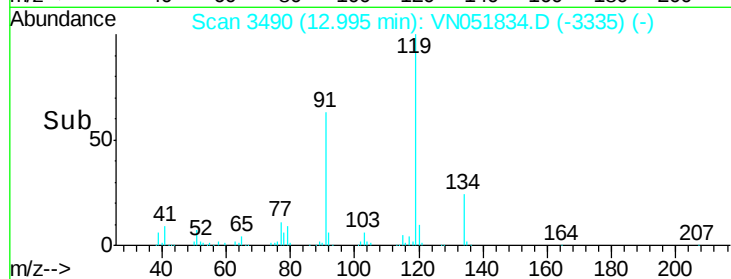
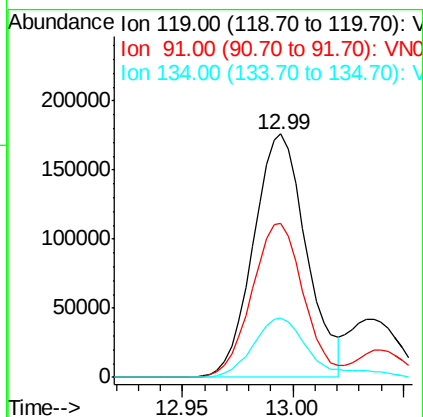
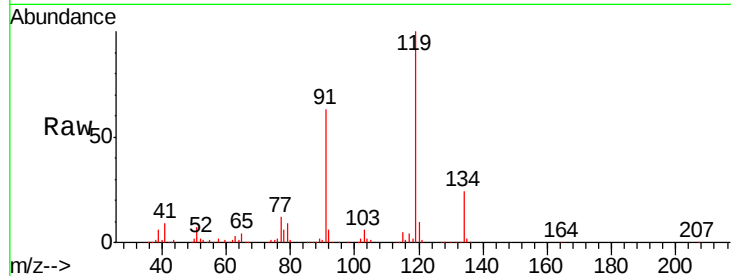
#79
tert-butylbenzene
Concen: 10.23 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	292698		
91	61.6	0.0	131.6	
134	26.3	0.0	46.2	

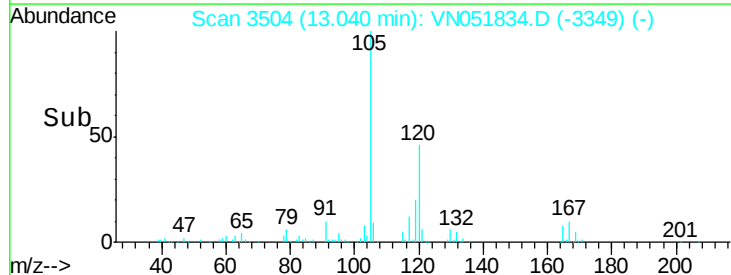
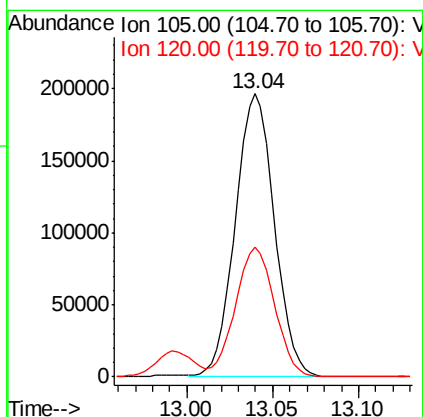
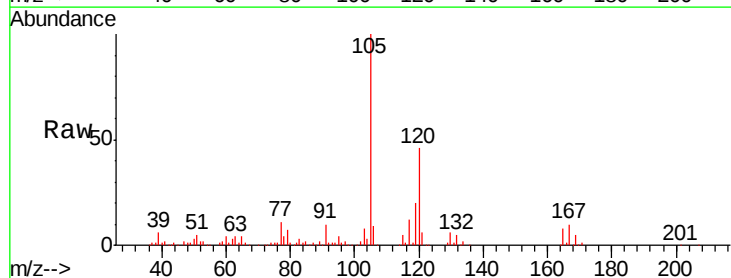
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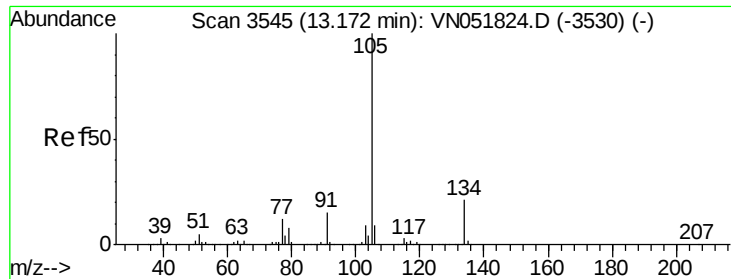
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#80
1,2,4-Trimethylbenzene
Concen: 9.96 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	309723		
120	46.1	0.0	89.6	





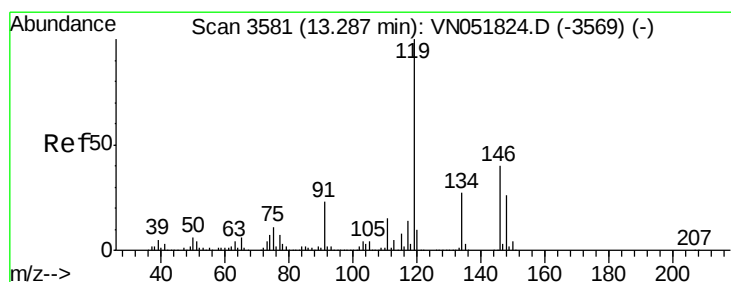
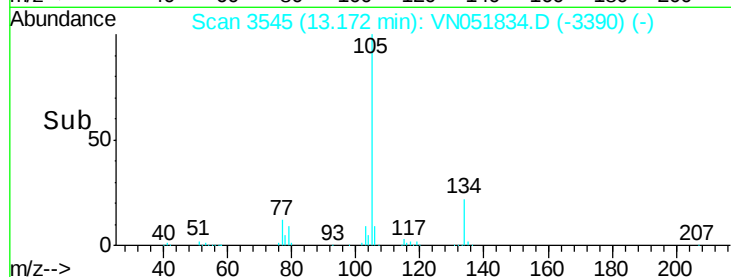
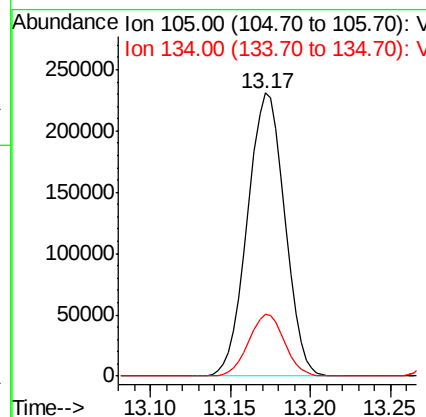
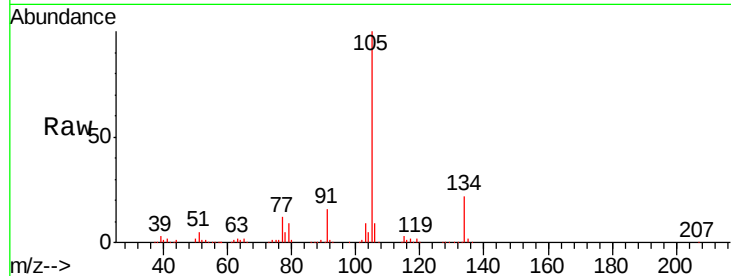
#81
 sec-Butylbenzene
 Concen: 9.81 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	367338		
134	21.1	0.0	39.4	

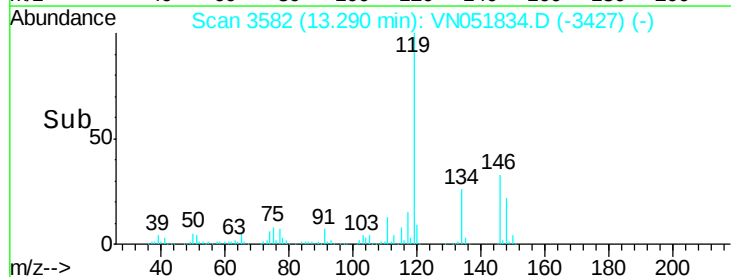
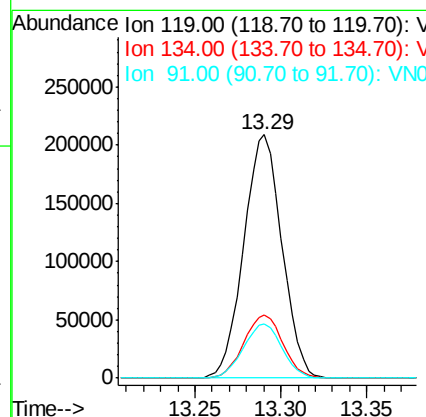
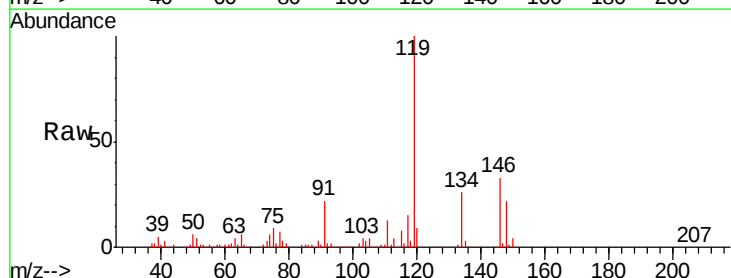
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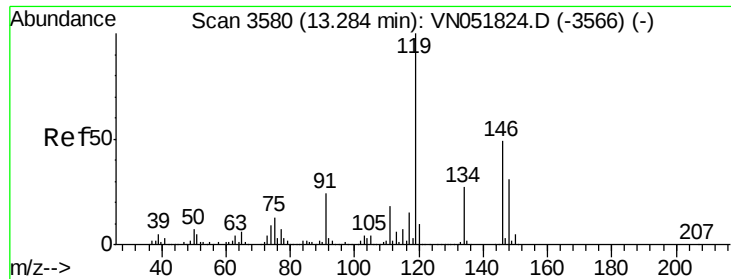
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#82
 p-Isopropyltoluene
 Concen: 9.57 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. -0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	320420		
134	26.5	0.0	53.6	
91	22.6	0.0	52.0	





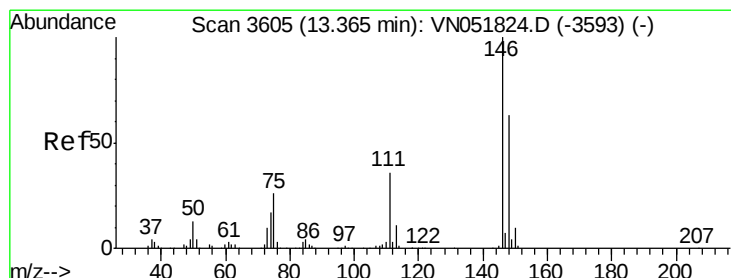
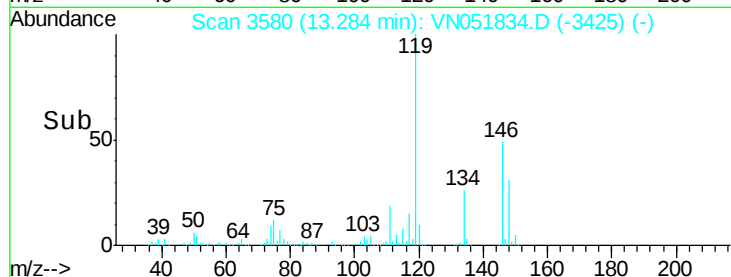
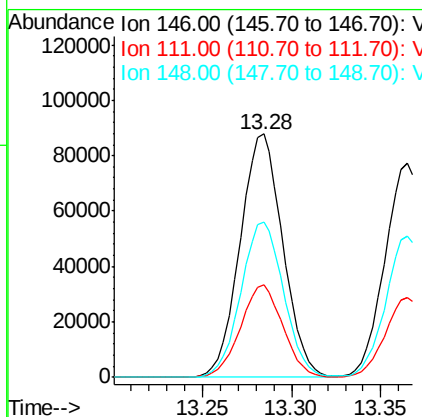
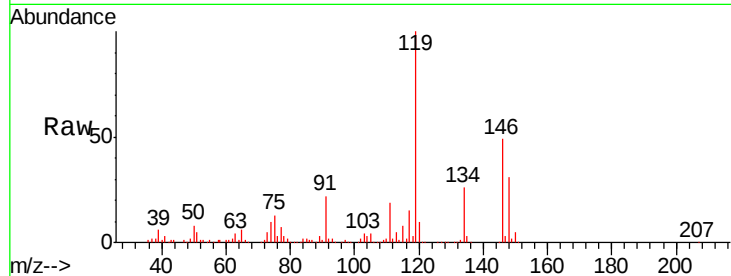
#83
 1,3-Dichlorobenzene
 Concen: 8.95 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.6	18.1	54.3
148	63.8	31.3	93.8

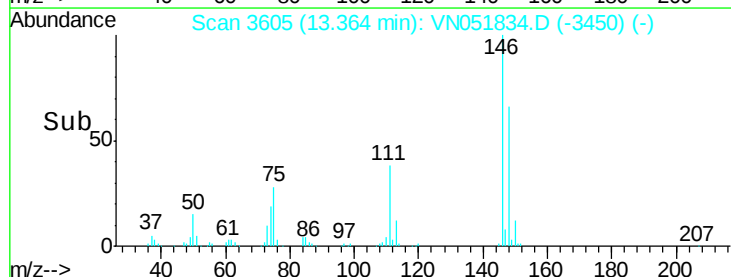
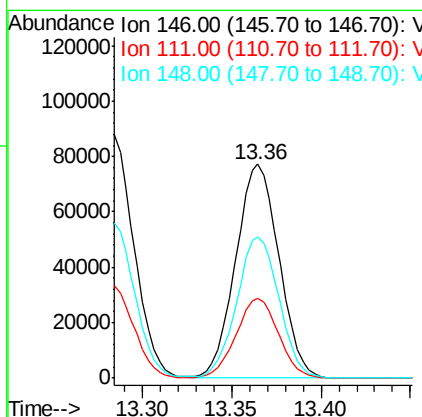
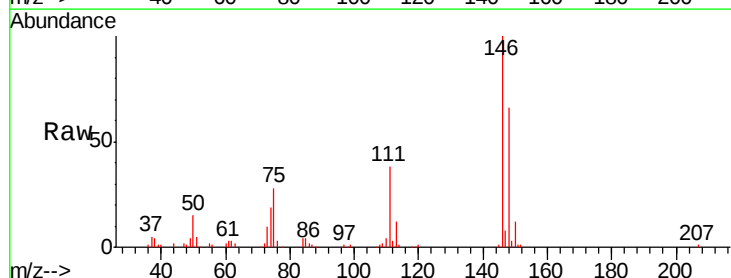
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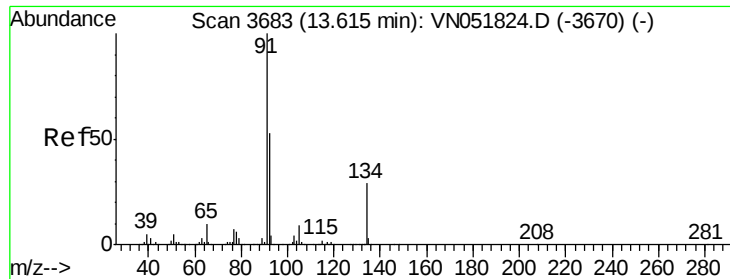
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#84
 1,4-Dichlorobenzene
 Concen: 8.48 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. -0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.7	17.4	52.2
148	64.8	32.8	98.3





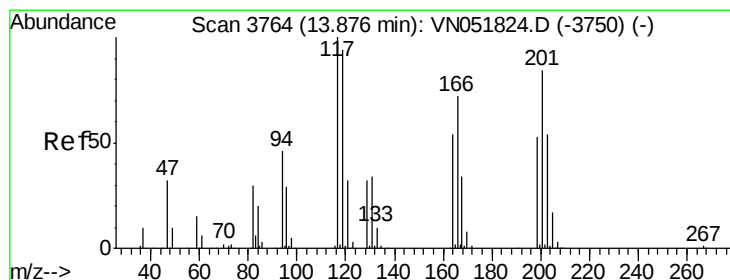
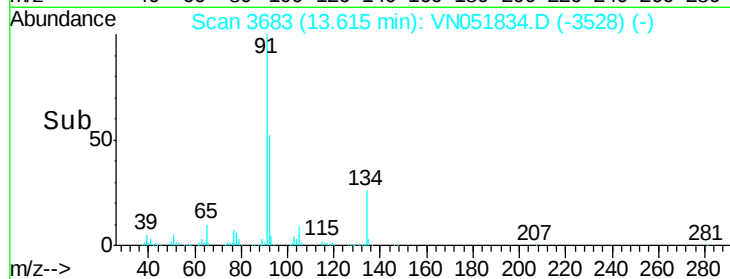
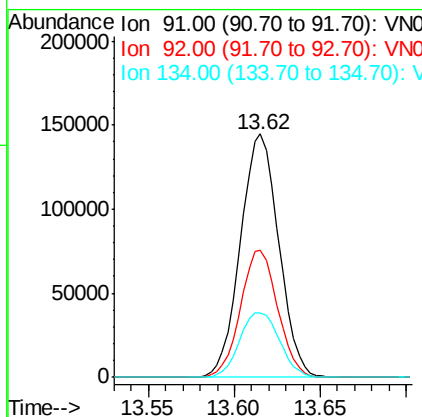
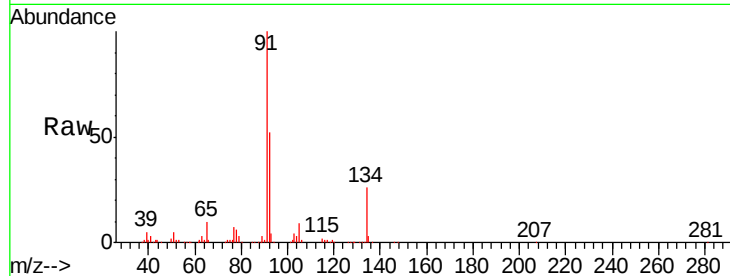
#85
n-Butylbenzene
Concen: 8.88 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	224288		
92	50.6	0.0	97.4	
134	27.7	0.0	49.6	

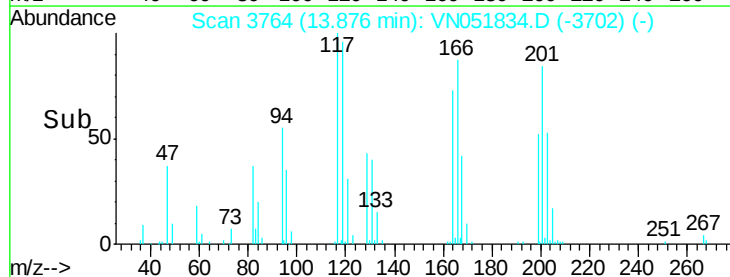
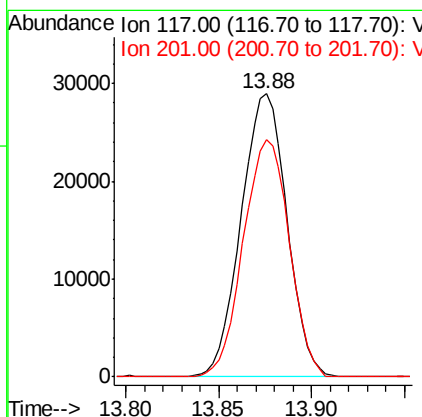
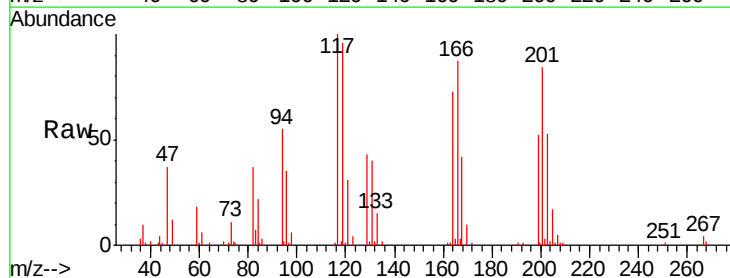
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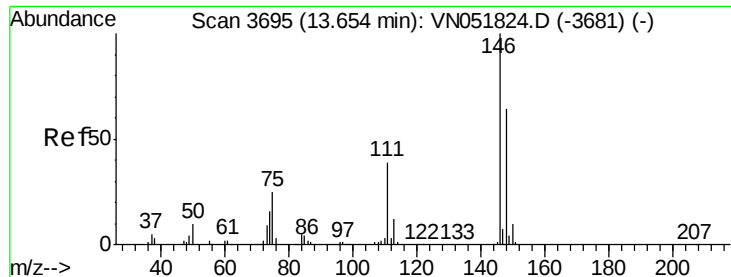
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#86
Hexachloroethane
Concen: 8.66 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	50030		
201	83.8	47.8	143.3	





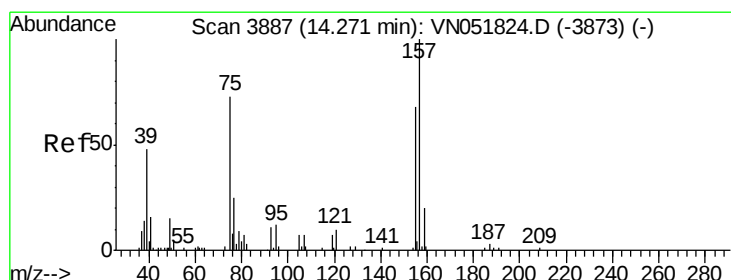
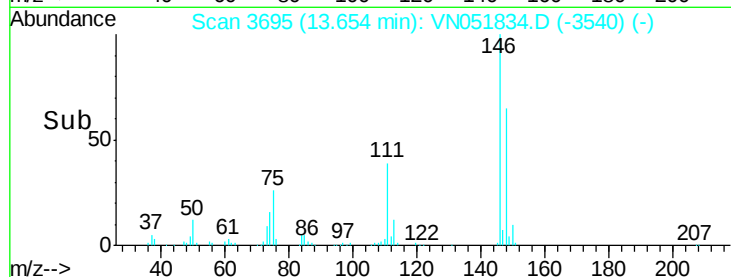
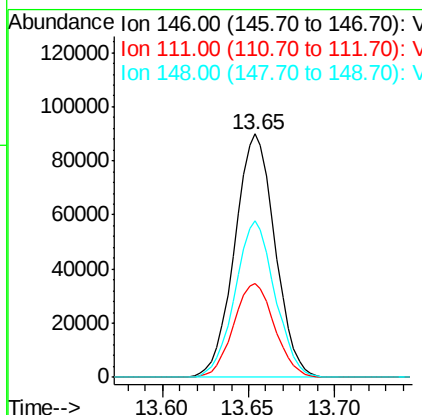
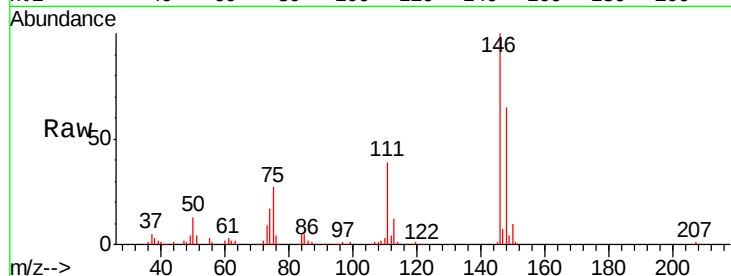
#87
 1,2-Dichlorobenzene
 Concen: 9.21 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.4	20.8	62.2
148	63.8	33.2	99.6

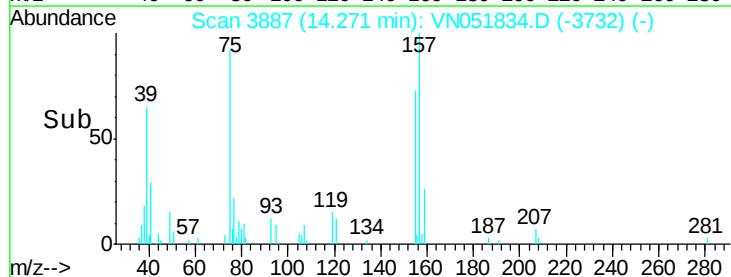
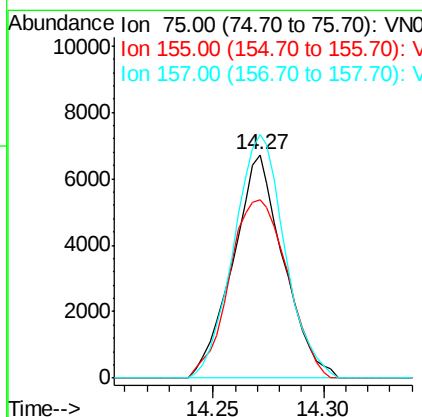
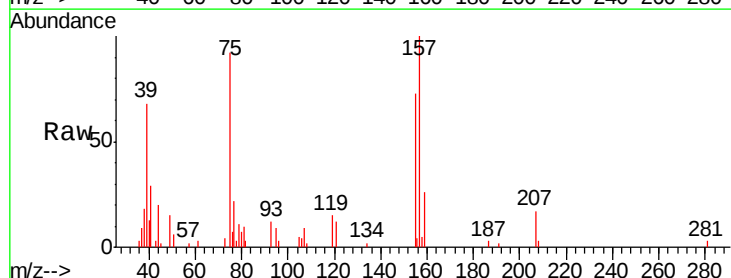
Manual Integrations
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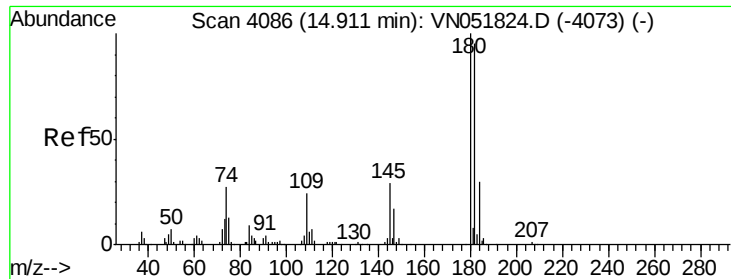
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#88
 1,2-Dibromo-3-Chloropropane
 Concen: 9.66 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. -0.00 min
 Lab File: VN051834.D
 Acq: 12 Oct 2018 15:50

Tgt Ion	Ratio	Lower	Upper
75	100		
155	91.6	57.0	85.6#
157	110.1	87.4	131.0





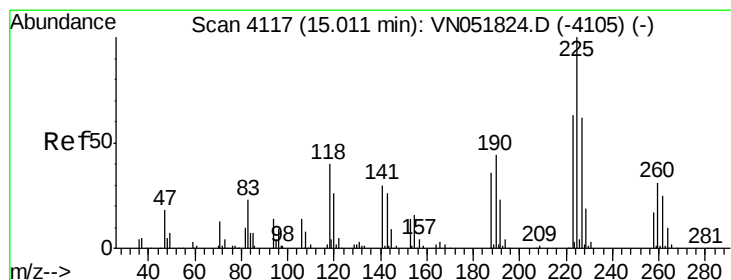
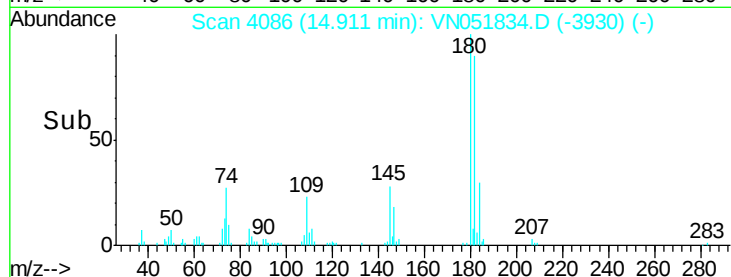
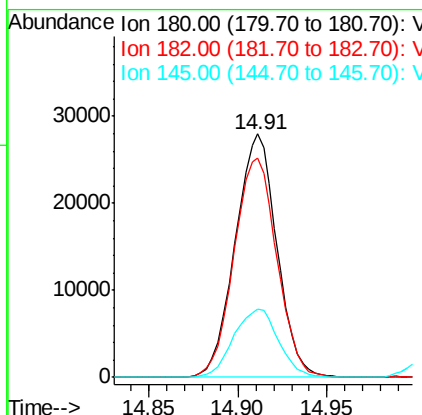
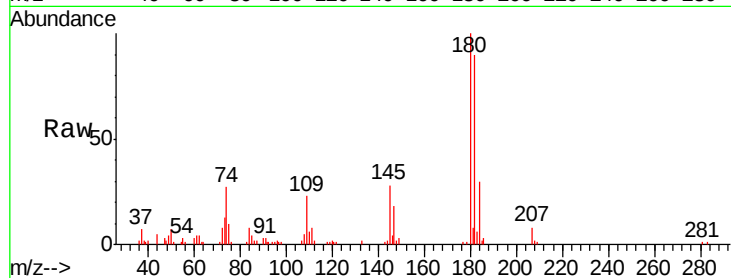
#89
1,2,4-Trichlorobenzene
Concen: 12.06 ug/l
RT: 14.91 min Scan# 4086
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	45515		
182	92.9	77.7	116.5	
145	30.2	23.4	35.2	

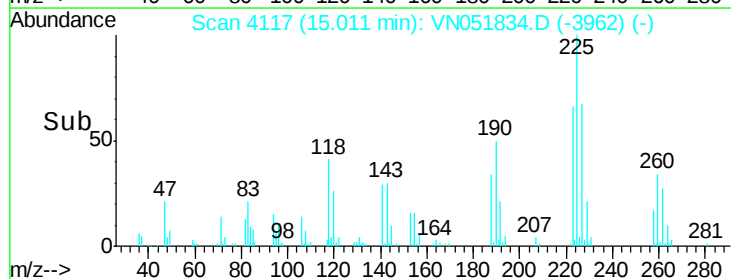
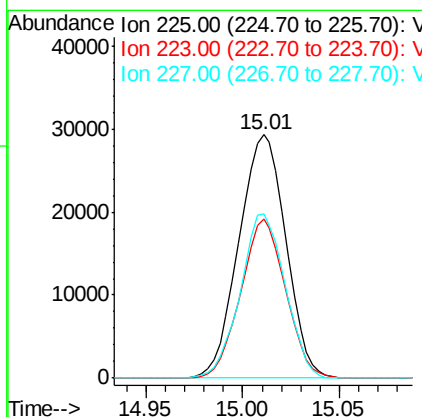
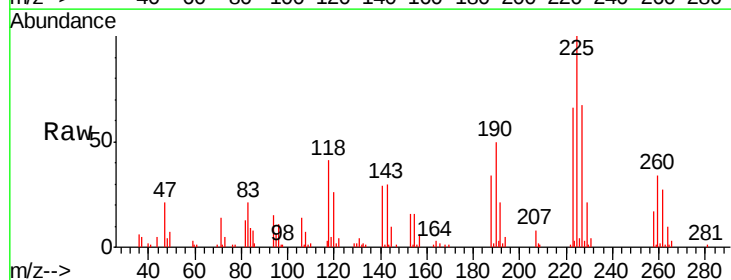
Manual Integrations
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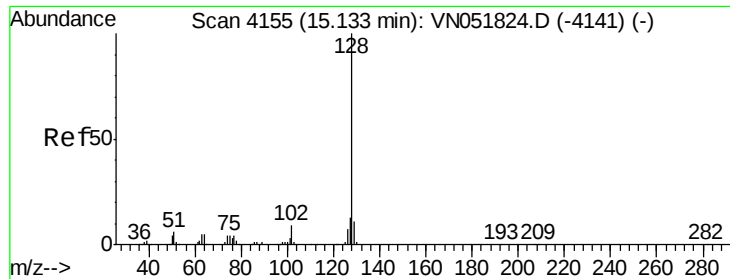
MMDadoda
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#90
Hexachlorobutadiene
Concen: 9.67 ug/l
RT: 15.01 min Scan# 4117
Delta R.T. -0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	49591		
223	62.3	0.0	117.0	
227	64.5	0.0	127.0	





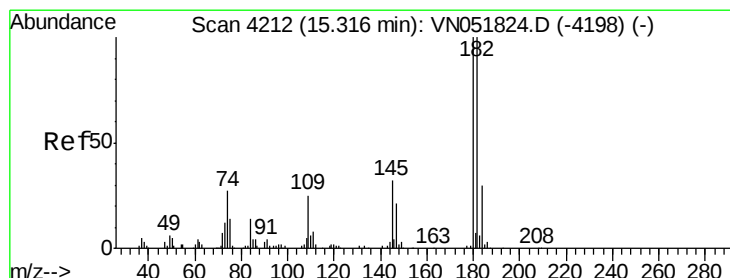
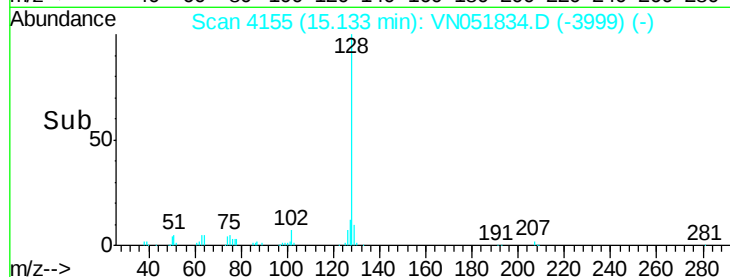
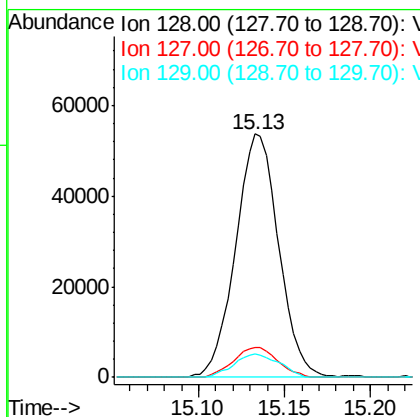
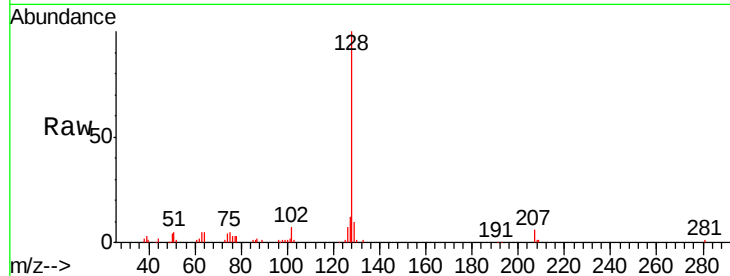
#91
Naphthalene
Concen: 12.82 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.1	15.1
129	10.2	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
10/15/2018 11:27:59 AM



#92
1,2,3-Trichlorobenzene
Concen: 6.96 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN051834.D
Acq: 12 Oct 2018 15:50

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.4	0.0	198.0
145	29.6	0.0	36.8

