

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111418\
 Data File : VN052319.D
 Acq On : 14 Nov 2018 18:02
 Operator : MD\SY
 Sample : J5164-08 2ppb
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 28

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

Manual Integrations
 APPROVED

MMDadoda
 11/20/2018 2:53:39 PM

Quant Time: Nov 15 04:09:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	251127	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	436356	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	376633	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	138510	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	185705	52.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.72%	
35) Dibromofluoromethane	7.59	113	139983	49.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.48%	
50) Toluene-d8	10.09	98	535036	48.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.66%	
62) 4-Bromofluorobenzene	12.40	95	161773	44.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.84%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	4988	1.874	ug/l	95
3) Chloromethane	2.06	50	7461	2.018	ug/l	92
4) Vinyl Chloride	2.19	62	6194	1.938	ug/l	89
5) Bromomethane	2.57	94	4303	2.159	ug/l	95
6) Chloroethane	2.71	64	4225	2.338	ug/l	90
7) Trichlorofluoromethane	3.02	101	9060	2.048	ug/l	98
8) Diethyl Ether	3.42	74	3601	2.136	ug/l	84
9) 1,1,2-Trichlorotrifluoroet	3.77	101	5458	1.954	ug/l #	77
12) 1,1-Dichloroethene	3.74	96	5380	2.081	ug/l	92
14) Allyl chloride	4.33	41	8782	1.654	ug/l #	81
15) Acrylonitrile	4.99	53	11534	10.784	ug/l	98
16) Acetone	3.82	43	10445	10.696	ug/l	95
17) Carbon Disulfide	4.06	76	14752	1.990	ug/l	96
18) Methyl Acetate	4.33	43	6592	2.820	ug/l #	73
19) Methyl tert-butyl Ether	5.05	73	15348m	2.066	ug/l	
20) Methylene Chloride	4.55	84	7487	1.846	ug/l	90
21) trans-1,2-Dichloroethene	5.05	96	5947	2.137	ug/l	87
22) Diisopropyl ether	5.95	45	21887	2.021	ug/l #	86
23) Vinyl Acetate	5.90	43	70771	9.633	ug/l #	94
24) 1,1-Dichloroethane	5.86	63	12325	2.122	ug/l	98
25) 2-Butanone	6.84	43	13974	10.166	ug/l	94
26) 2,2-Dichloropropane	6.83	77	8304	1.945	ug/l	84
27) cis-1,2-Dichloroethene	6.84	96	6682m	2.062	ug/l	
28) Bromochloromethane	7.20	49	6146	2.058	ug/l #	99
29) Tetrahydrofuran	7.22	42	8919	9.877	ug/l	95
30) Chloroform	7.37	83	18933	3.421	ug/l	89
31) Cyclohexane	7.66	56	17003	2.138	ug/l #	72
32) 1,1,1-Trichloroethane	7.57	97	9357	1.985	ug/l	98
36) 1,1-Dichloropropene	7.79	75	9017	2.062	ug/l	98
37) Ethyl Acetate	6.94	43	6256	1.971	ug/l #	96
38) Carbon Tetrachloride	7.78	117	8010	1.993	ug/l	91
39) Methylcyclohexane	9.08	83	9260	1.855	ug/l	96
40) Benzene	8.04	78	25928	2.075	ug/l	98
41) Methacrylonitrile	7.17	41	2058	4.777	ug/l #	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

42) 1,2-Dichloroethane	8.12	62	9053	2.032	ug/l	99
43) Isopropyl Acetate	8.17	43	12719	2.077	ug/l #	95
44) Trichloroethene	8.83	130	6167	2.004	ug/l	89
45) 1,2-Dichloropropane	9.12	63	7260	2.047	ug/l	99
46) Dibromomethane	9.21	93	4340	2.114	ug/l	98
47) Bromodichloromethane	9.40	83	8538	2.027	ug/l	87
48) Methyl methacrylate	9.20	41	6539	2.104	ug/l	89
49) 1,4-Dioxane	9.20	88	1238	51.891	ug/l #	37
51) 4-Methyl-2-Pentanone	9.99	43	29865	9.687	ug/l	99
52) Toluene	10.16	92	15362	2.055	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	7526	1.772	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	8983	1.855	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	5638	2.081	ug/l	96
56) Ethyl methacrylate	10.43	69	6515	1.828	ug/l	87
57) 1,3-Dichloropropane	10.71	76	9611	2.003	ug/l	93
58) 2-Chloroethyl Vinyl ether	9.69	63	18460	9.099	ug/l	99
59) 2-Hexanone	10.75	43	19148	9.029	ug/l	98
60) Dibromochloromethane	10.90	129	4948	1.688	ug/l	89
61) 1,2-Dibromoethane	11.01	107	5263	1.950	ug/l	99
64) Tetrachloroethene	10.63	164	5481	2.047	ug/l	99
65) Chlorobenzene	11.43	112	16748	2.104	ug/l	93
66) 1,1,1,2-Tetrachloroethane	11.51	131	5319	1.959	ug/l	95
67) Ethyl Benzene	11.51	91	27646	2.001	ug/l	93
68) m/p-Xylenes	11.62	106	19358	3.834	ug/l	99
69) o-Xylene	11.95	106	9315	1.925	ug/l	99
70) Styrene	11.96	104	13796	1.780	ug/l	97
71) Bromoform	12.12	173	2737	1.708	ug/l #	99
73) Isopropylbenzene	12.25	105	24280	2.180	ug/l	99
74) N-amyl acetate	12.07	43	9156	2.308	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.50	83	6690	2.485	ug/l	96
76) 1,2,3-Trichloropropane	12.56	75	5410m	2.302	ug/l	
77) Bromobenzene	12.53	156	5919	2.284	ug/l	99
78) n-propylbenzene	12.59	91	28387	2.180	ug/l	94
79) 2-Chlorotoluene	12.67	91	17438	2.292	ug/l	98
80) 1,3,5-Trimethylbenzene	12.73	105	18855	2.129	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	1217m	1.679	ug/l	
82) 4-Chlorotoluene	12.77	91	16864	2.163	ug/l	98
83) tert-Butylbenzene	12.99	119	18016	2.304	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	17666	1.987	ug/l	97
85) sec-Butylbenzene	13.17	105	22047	2.070	ug/l	97
86) p-Isopropyltoluene	13.29	119	17376	1.926	ug/l	98
87) 1,3-Dichlorobenzene	13.28	146	9824	2.135	ug/l	97
88) 1,4-Dichlorobenzene	13.36	146	9631	2.105	ug/l	81
89) n-Butylbenzene	13.62	91	13518	1.745	ug/l	97
90) Hexachloroethane	13.88	117	2845	1.780	ug/l	87
91) 1,2-Dichlorobenzene	13.65	146	9793	2.197	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	1019	2.567	ug/l	76
93) 1,2,4-Trichlorobenzene	14.90	180	2782	3.538	ug/l	98
94) Hexachlorobutadiene	15.01	225	2130	2.087	ug/l	92
95) Naphthalene	15.13	128	6270	3.817	ug/l #	96

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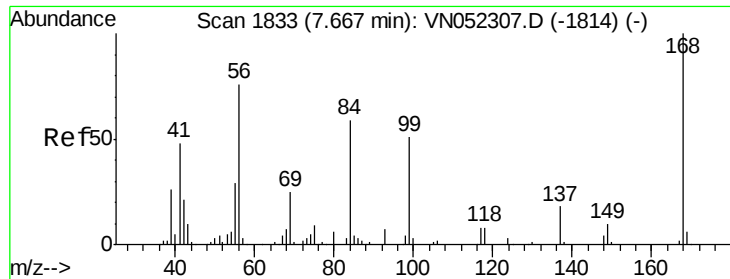
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 1,2,3-Trichlorobenzene	15.31	180	2509	1.481	ug/l	83

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

Tot Ion:168 Resp: 251127

Ion Ratio Lower Upper

168 100

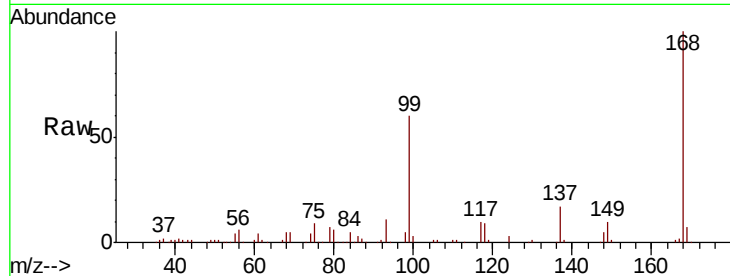
99 59.9 47.9 71.9

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VN052307.D (-1814) (-)

Ion 98.90 (98.60 to 99.60): VN052307.D (-1814) (-)

7.67

120000

100000

80000

60000

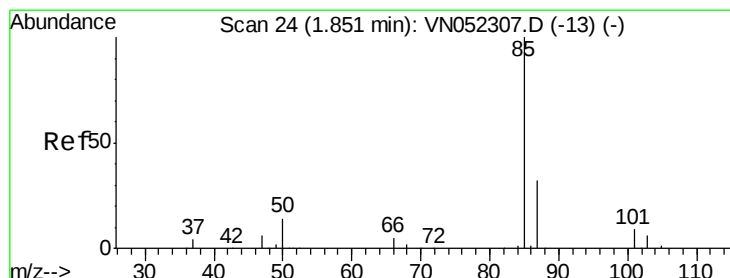
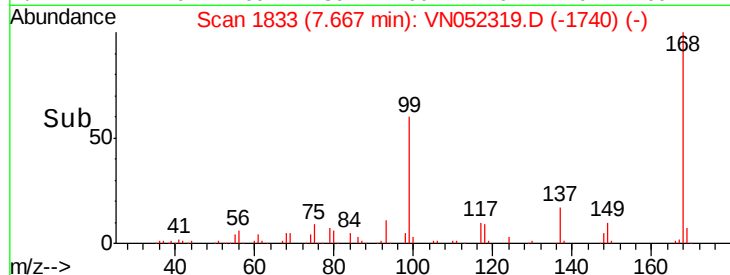
40000

20000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 1.874 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN052319.D

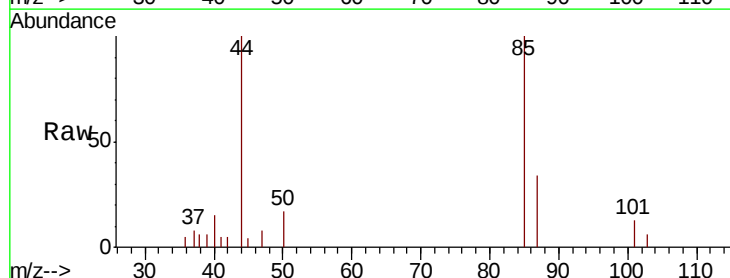
Acq: 14 Nov 2018 18:02

Tgt Ion: 85 Resp: 4988

Ion Ratio Lower Upper

85 100

87 34.5 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VN052307.D (-13) (-)

Ion 86.90 (86.60 to 87.60): VN052307.D (-13) (-)

1.85

4000

3000

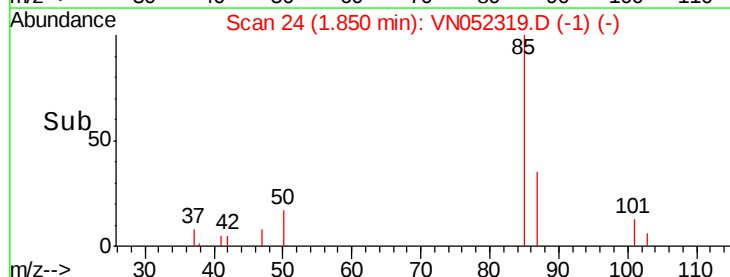
2000

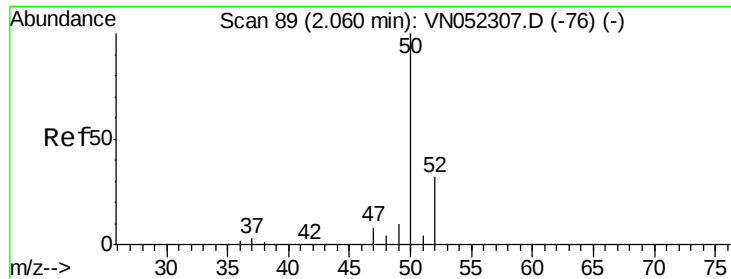
1000

0

1.80 1.85 1.90

Time-->





#3

Chloromethane

Concen: 2.018 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

Tot Ion: 50 Resp: 7461

Ion Ratio Lower Upper

50 100

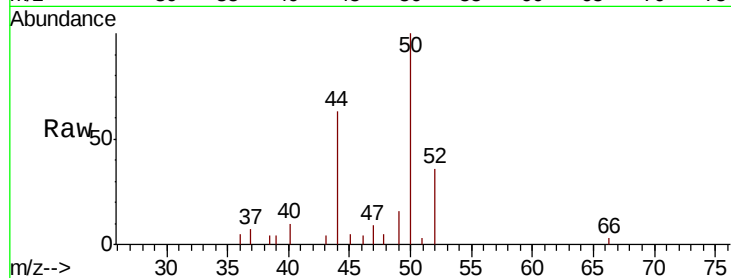
52 36.4 25.5 38.3

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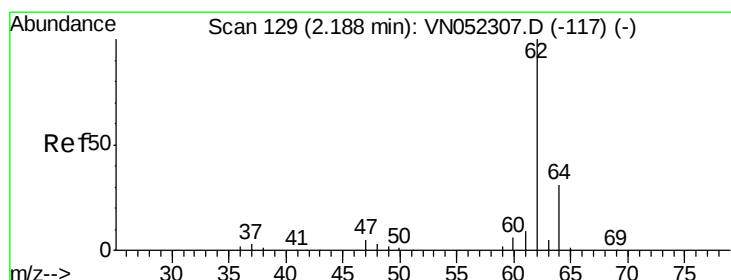
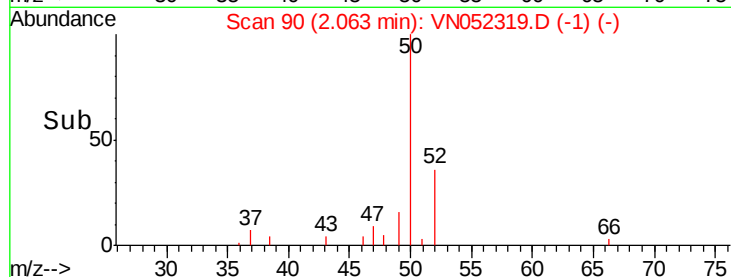
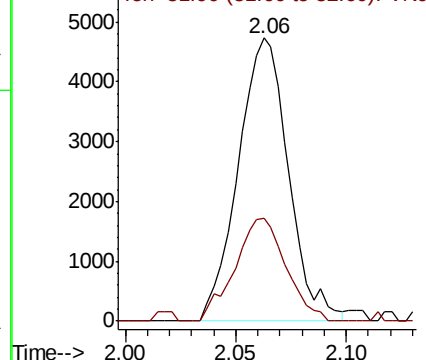
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Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 1.938 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN052319.D

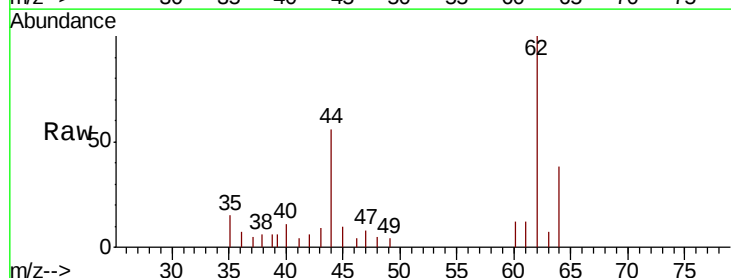
Acq: 14 Nov 2018 18:02

Tgt Ion: 62 Resp: 6194

Ion Ratio Lower Upper

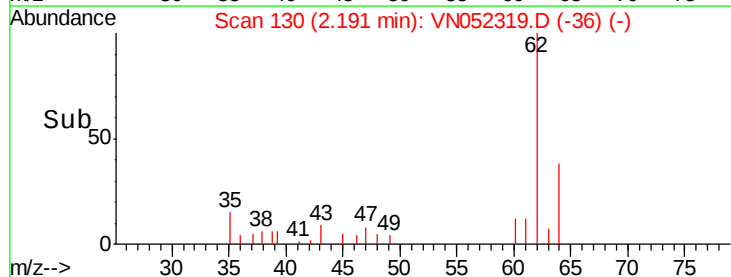
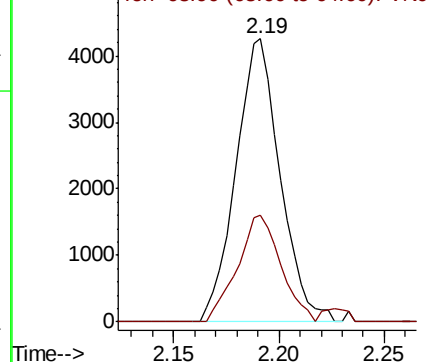
62 100

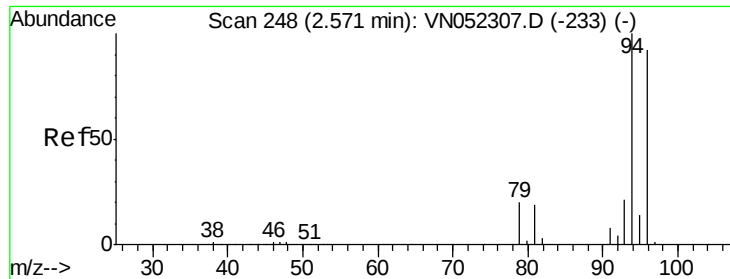
64 37.5 25.2 37.8



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 2.159 ug/l

RT: 2.57 min Scan# 248

Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

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LOQ-WATER-02-QT4-2018

Tot Ion: 94 Resp: 4303

Ion Ratio Lower Upper

94 100

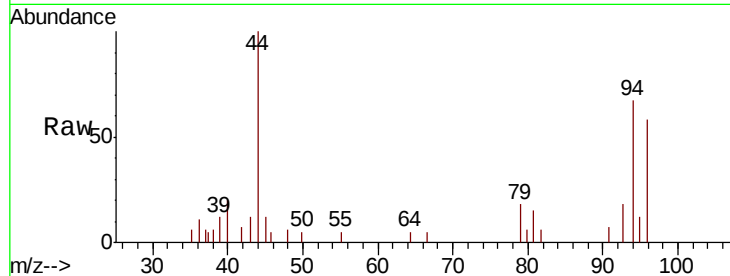
96 86.8 73.6 110.4

Manual Integrations

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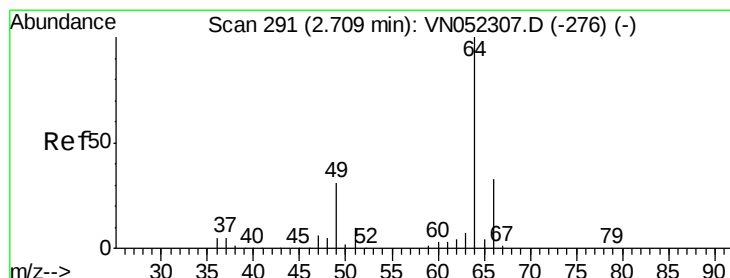
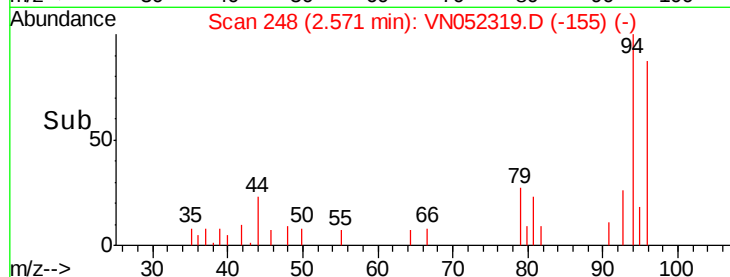
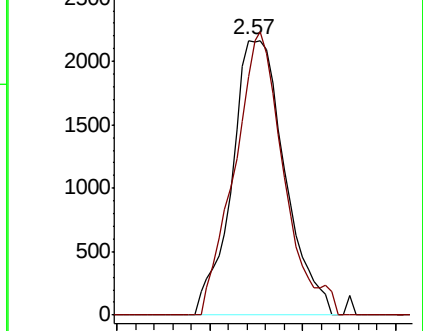
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 2.338 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN052319.D

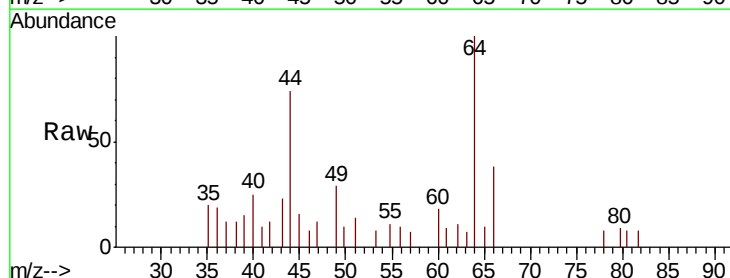
Acq: 14 Nov 2018 18:02

Tgt Ion: 64 Resp: 4225

Ion Ratio Lower Upper

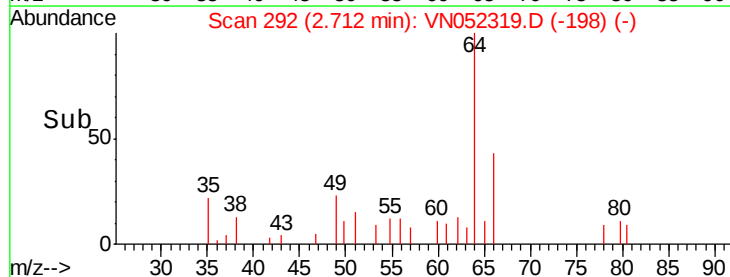
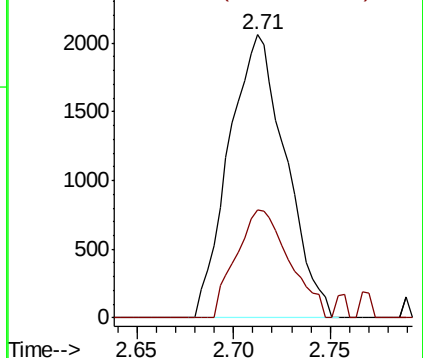
64 100

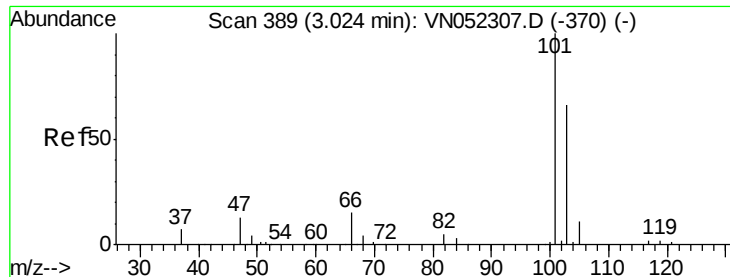
66 38.2 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

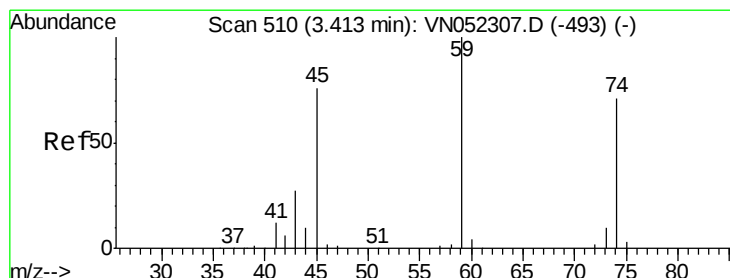
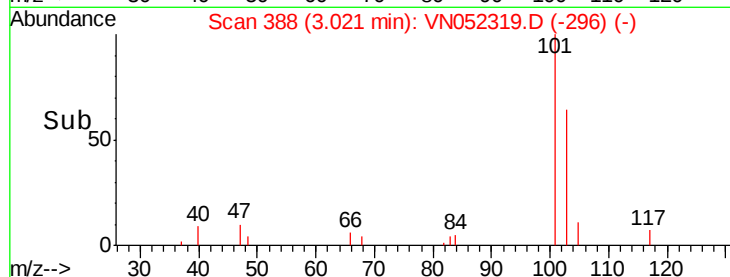
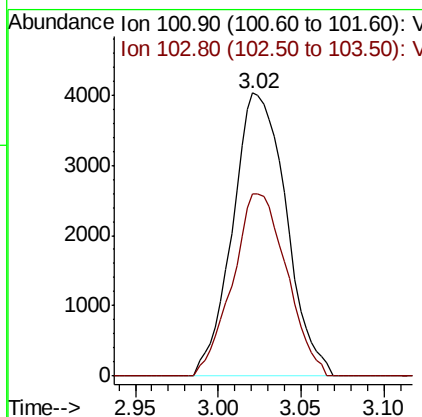
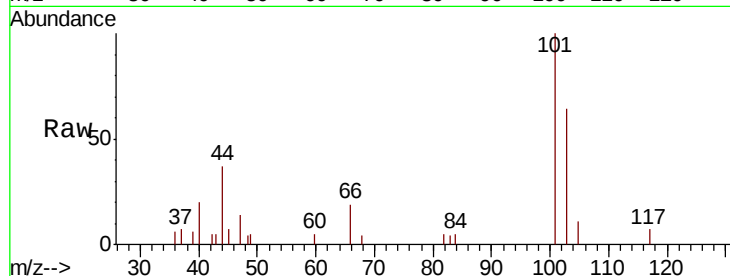
Trichlorofluoromethane
Concen: 2.048 ug/l
RT: 3.02 min Scan# 388
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

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LOQ-WATER-02-QT4-2018

Tot Ion:101 Resp: 9060
Ion Ratio Lower Upper
101 100
103 64.2 52.8 79.2

Manual Integrations
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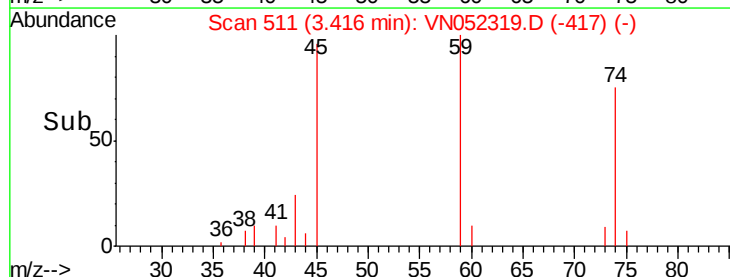
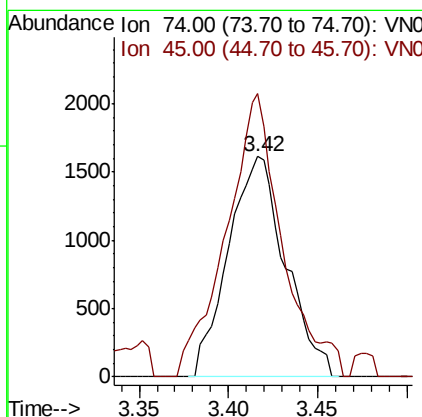
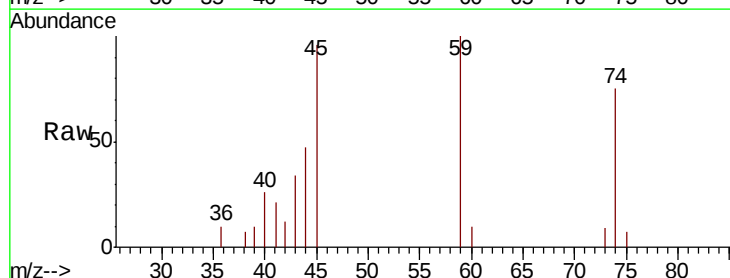
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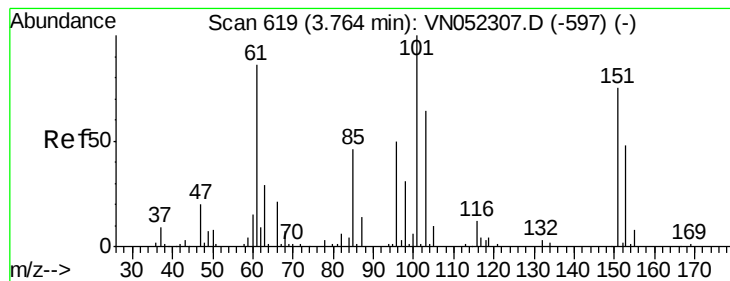


#8

Diethyl Ether
Concen: 2.136 ug/l
RT: 3.42 min Scan# 511
Delta R.T. 0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion: 74 Resp: 3601
Ion Ratio Lower Upper
74 100
45 125.6 54.3 162.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.954 ug/l

RT: 3.77 min Scan# 622

Delta R.T. 0.01 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

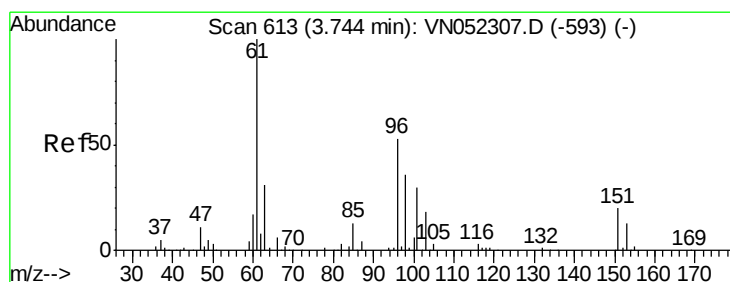
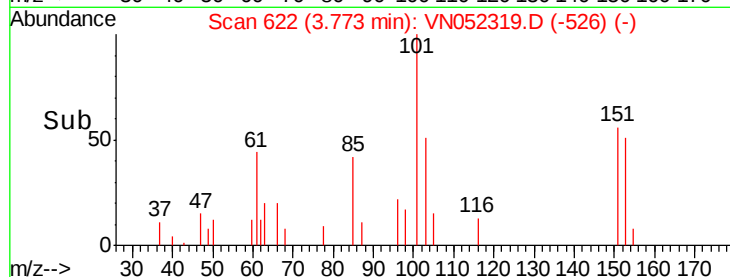
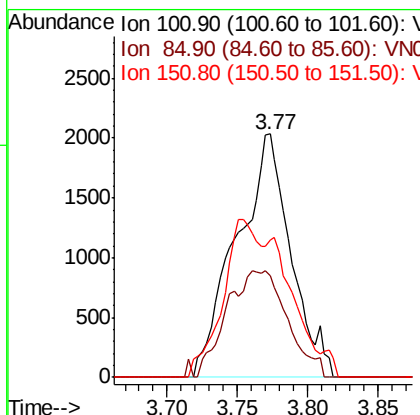
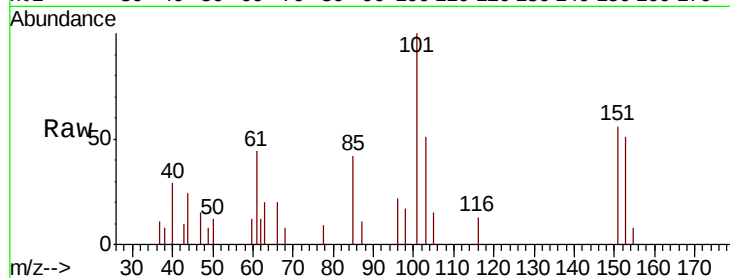
ClientSampleId :

LOQ-WATER-02-QT4-2018

Tot Ion:	101	Resp:	5458
Ion Ratio	Lower	Upper	
101	100		
85	48.9	37.4	56.0
151	43.5	58.6	88.0#

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#12

1,1-Dichloroethene

Concen: 2.081 ug/l

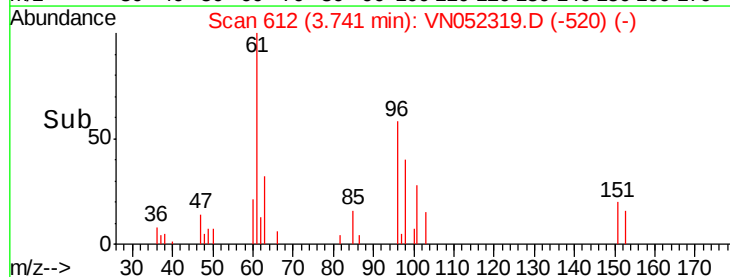
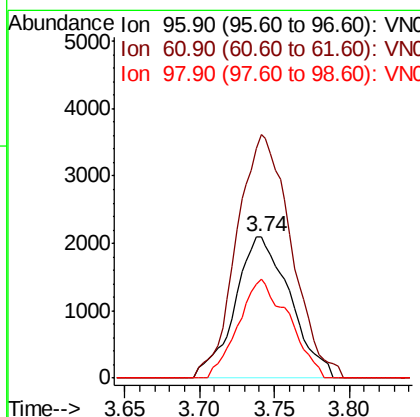
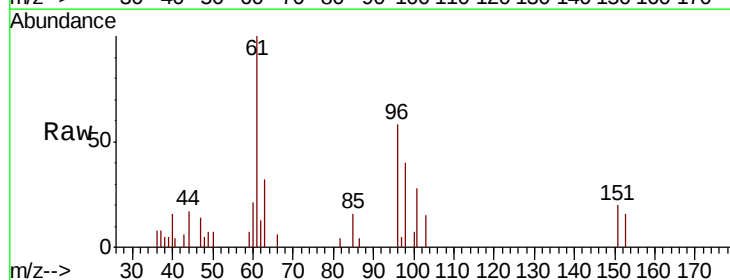
RT: 3.74 min Scan# 612

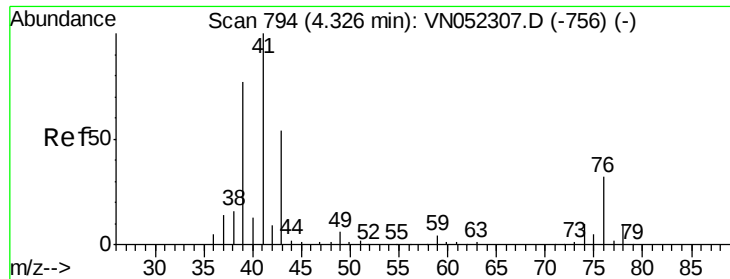
Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Tgt Ion:	96	Resp:	5380
Ion Ratio	Lower	Upper	
96	100		
61	172.1	149.6	224.4
98	69.6	54.2	81.2





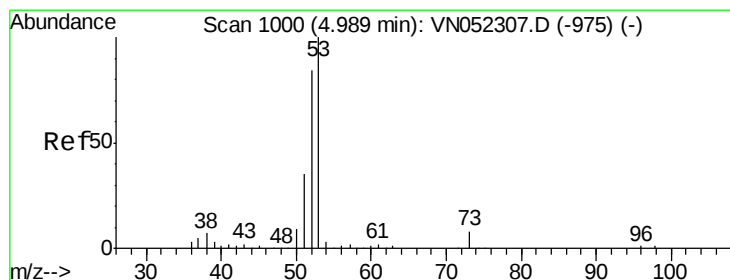
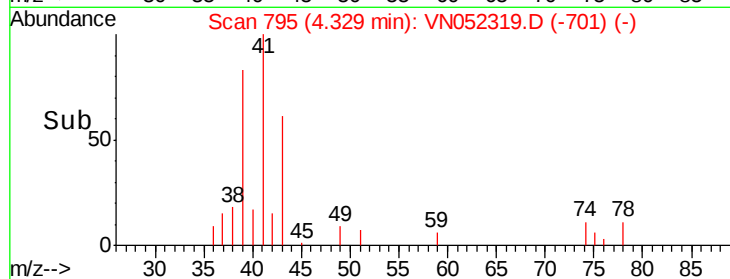
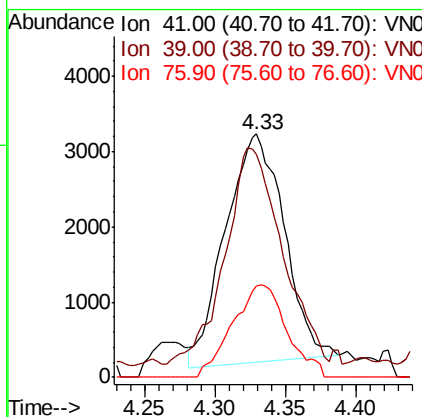
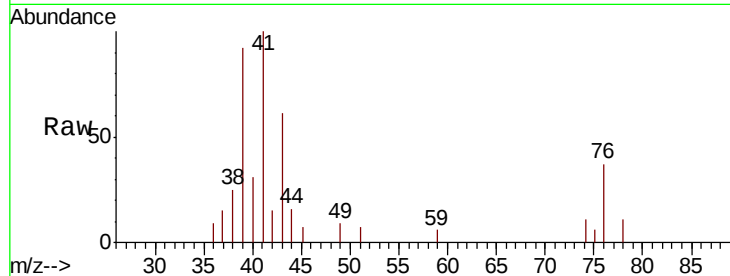
#14
Allvl chloride
Concen: 1.654 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

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

Tot Ion	Ratio	Lower	Upper
41	100		
39	91.8	59.1	88.7#
76	37.7	24.1	36.1#

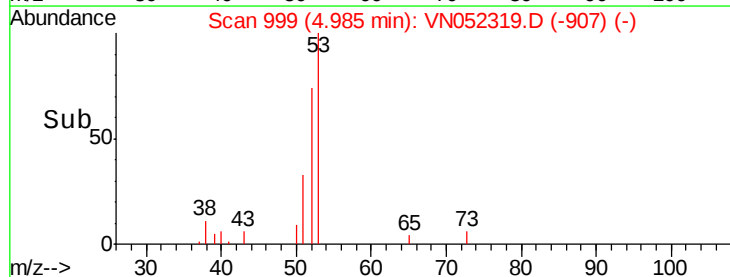
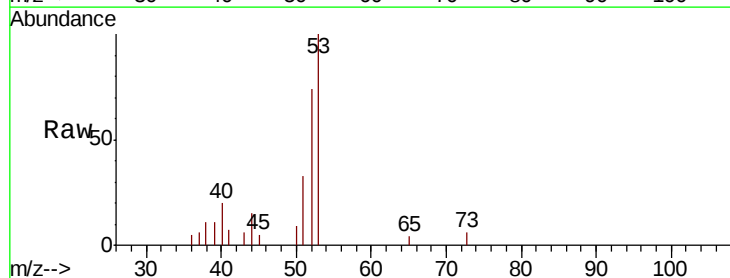
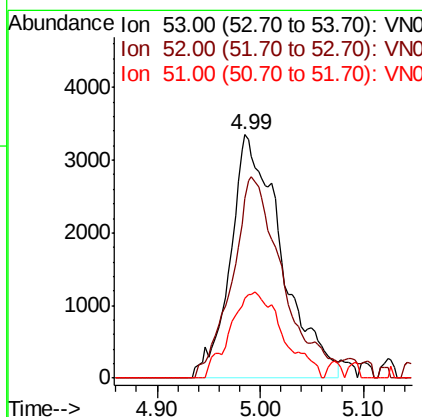
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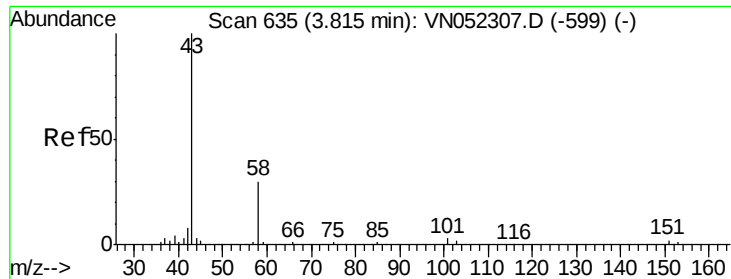
MMDadoda
11/20/2018 2:53:39 PM



#15
Acrylonitrile
Concen: 10.784 ug/l
RT: 4.99 min Scan# 999
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion	Ratio	Lower	Upper
53	100		
52	81.9	67.5	101.3
51	36.3	29.9	44.9





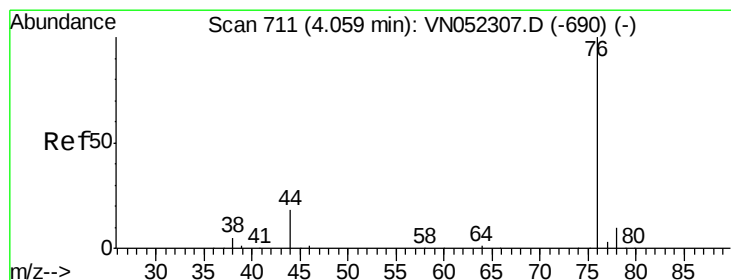
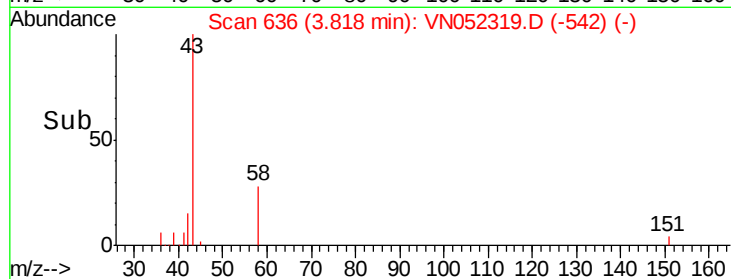
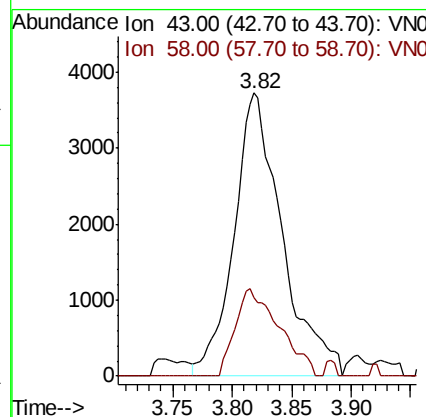
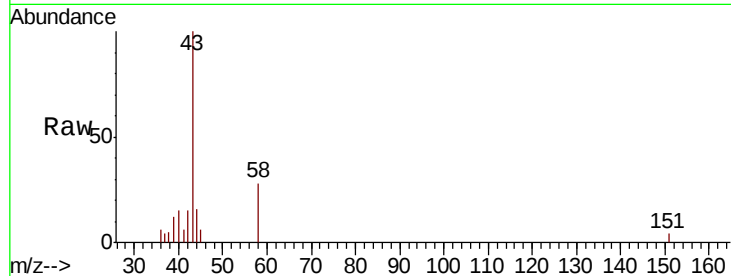
#16
Acetone
Concen: 10.696 ug/l
RT: 3.82 min Scan# 636
Delta R.T. 0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

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

Tot Ion: 43 Resp: 10445
Ion Ratio Lower Upper
43 100
58 27.7 24.2 36.4

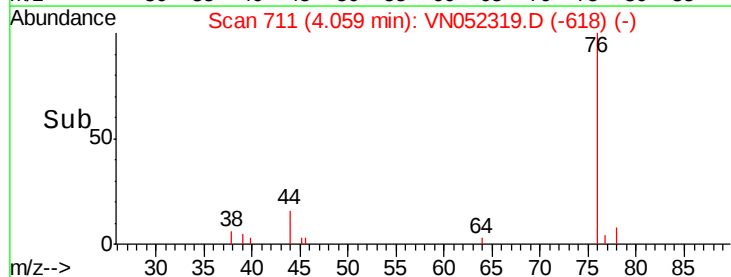
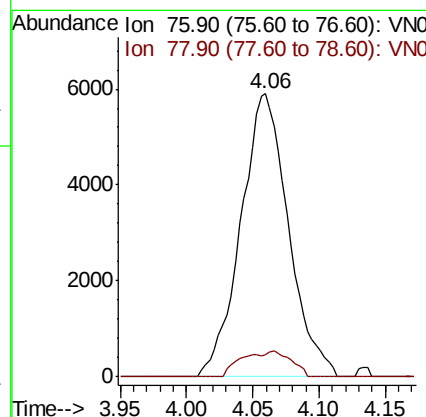
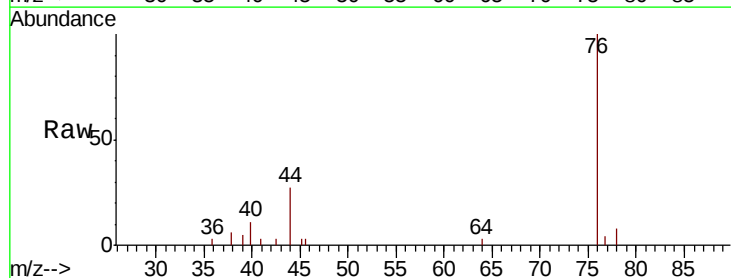
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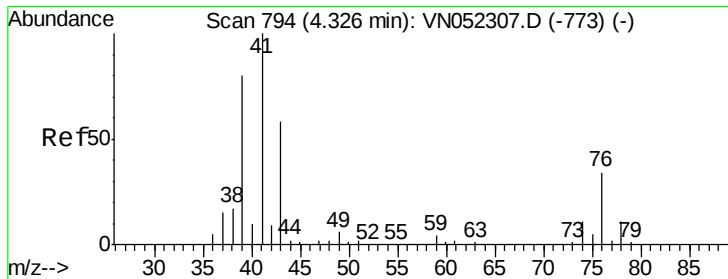
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#17
Carbon Disulfide
Concen: 1.990 ug/l
RT: 4.06 min Scan# 711
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion: 76 Resp: 14752
Ion Ratio Lower Upper
76 100
78 8.0 7.7 11.5





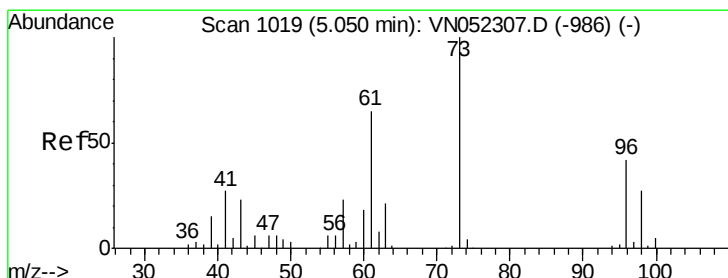
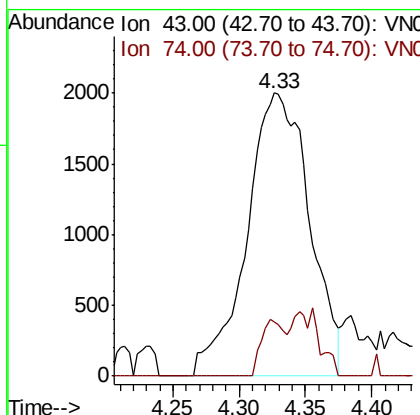
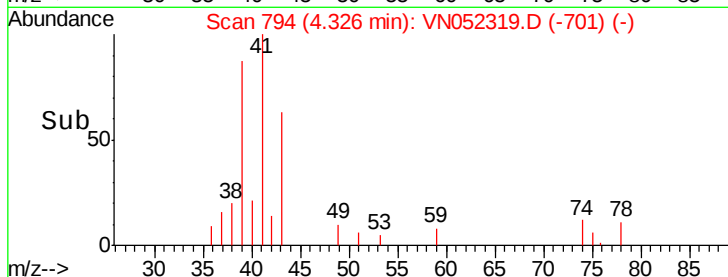
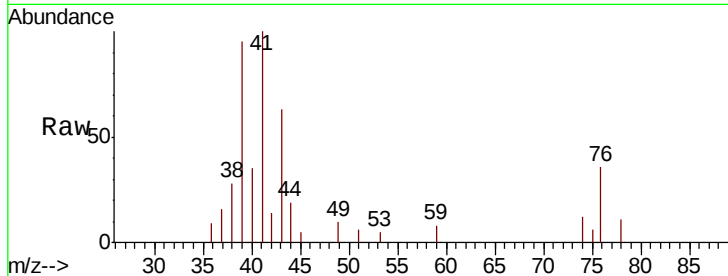
#18
Methyl Acetate
Concen: 2.820 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

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

Tot Ion: 43 Resp: 6592
Ion Ratio Lower Upper
43 100
74 7.4 15.9 23.9#

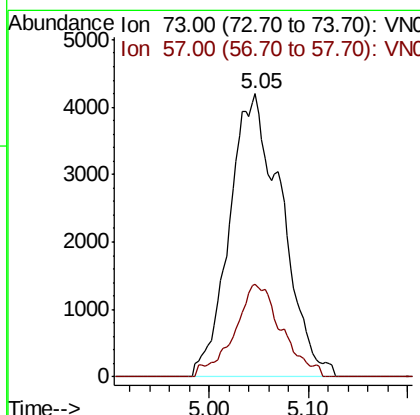
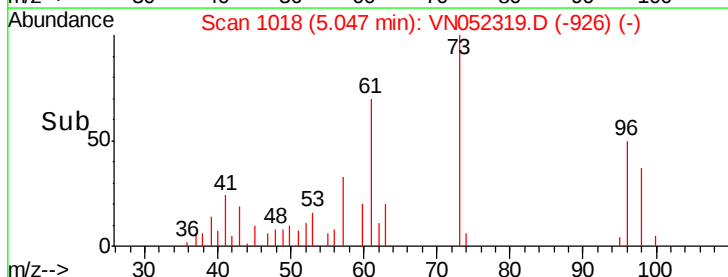
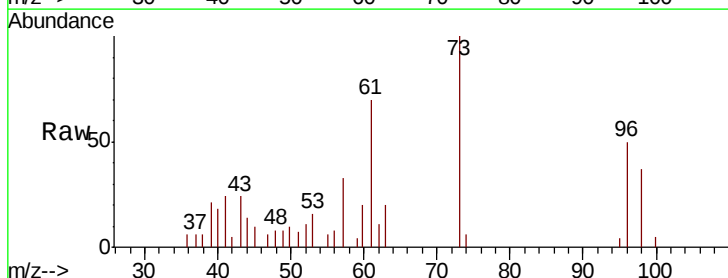
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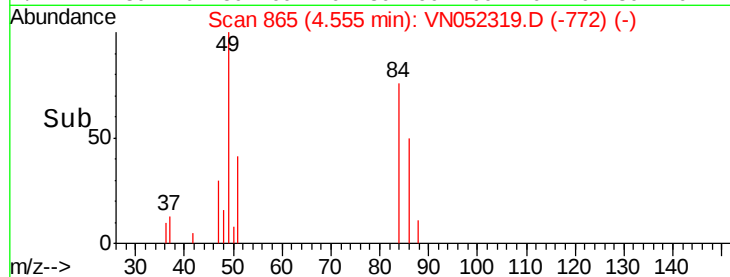
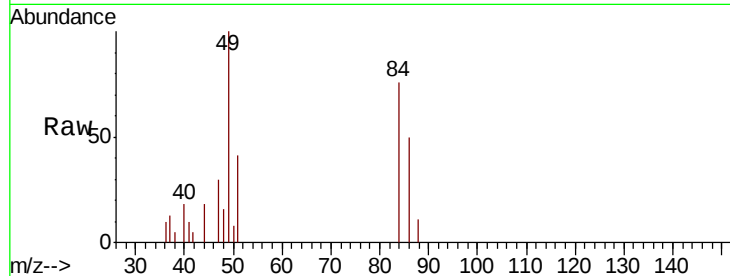
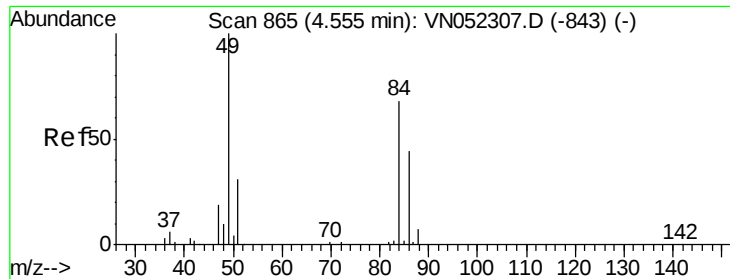
MMDadoda
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#19
Methyl tert-butyl Ether
Concen: 2.066 ug/l m
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion: 73 Resp: 15348
Ion Ratio Lower Upper
73 100
57 32.8 18.7 28.1#





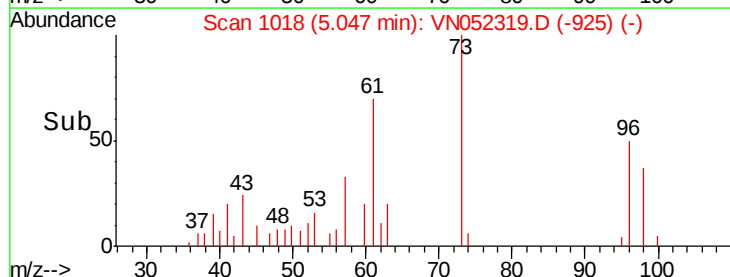
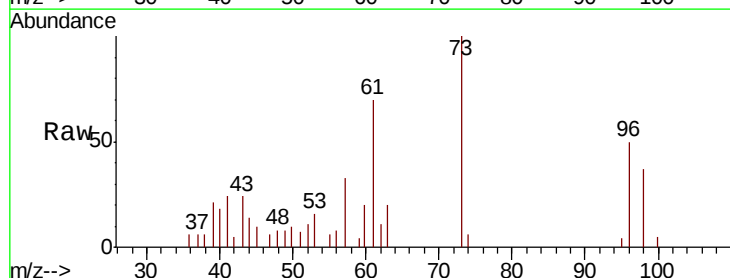
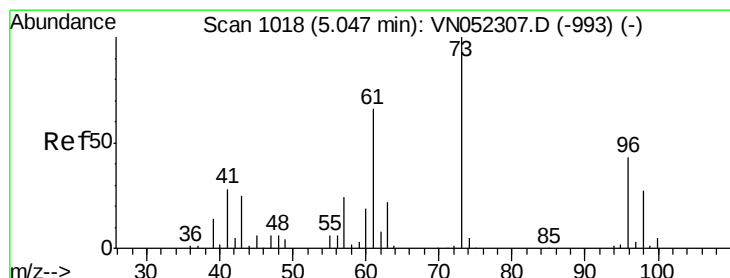
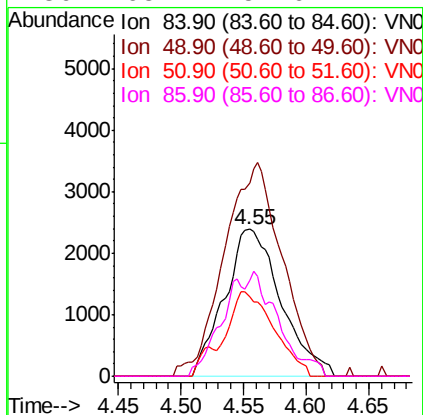
#20
Methvlene Chloride
Concen: 1.846 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tot Ion	84	49	51	86
Ion	100	131.3	53.6	65.1
Ratio				
Lower		118.2	36.1	51.6
Upper		177.2	54.1	77.4

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

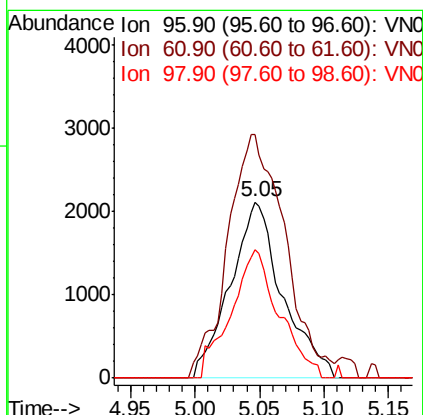
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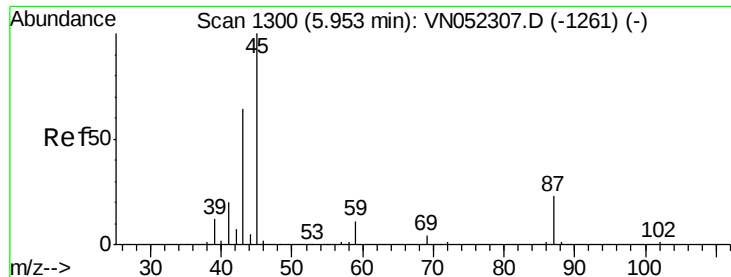
MMDadoda
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#21
trans-1,2-Dichloroethene
Concen: 2.137 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion	96	61	98
Ion	100	138.1	72.9
Ratio			
Lower		123.6	50.7
Upper		185.4	76.1





#22

Diisopropyl ether

Concen: 2.021 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

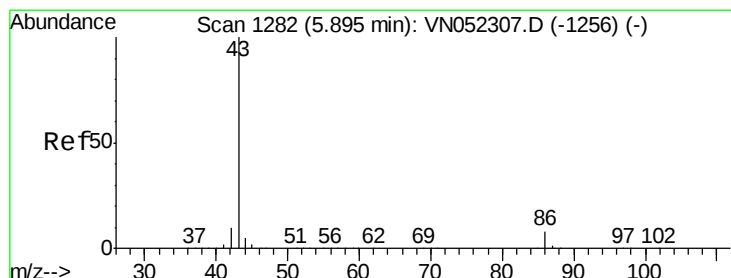
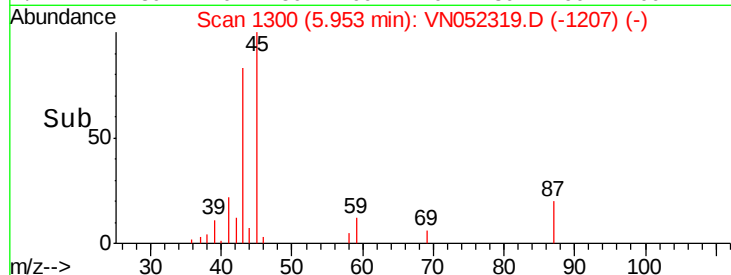
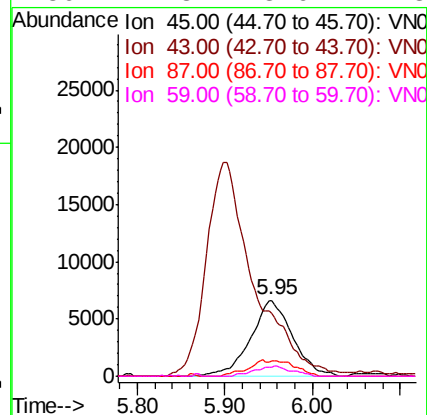
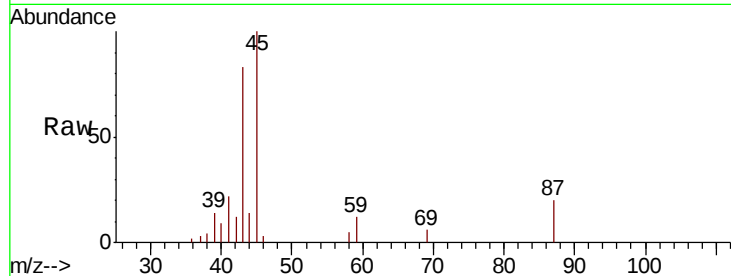
ClientSampleId :

LOQ-WATER-02-QT4-2018

Tot Ion:	45	Resp:	21887
Ion	Ratio	Lower	Upper
45	100		
43	78.7	51.4	77.2#
87	19.7	18.8	28.2
59	12.3	8.6	12.8

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#23

Vinyl Acetate

Concen: 9.633 ug/l

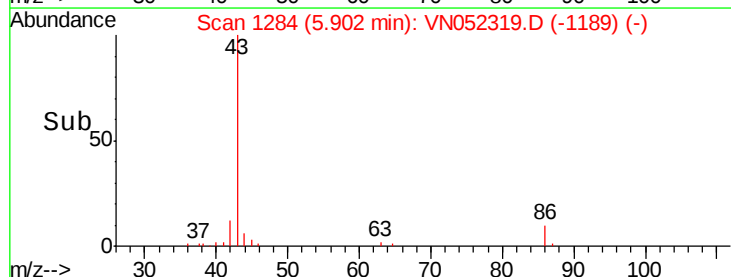
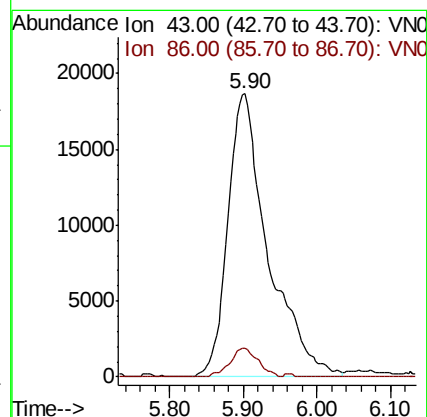
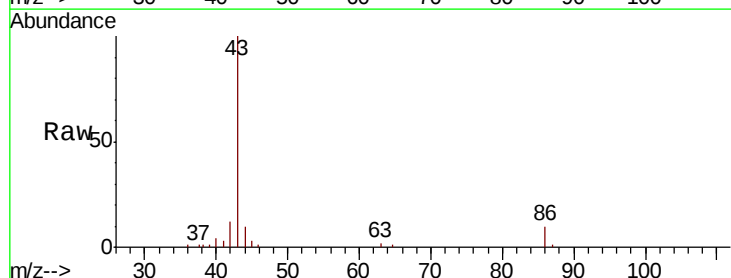
RT: 5.90 min Scan# 1284

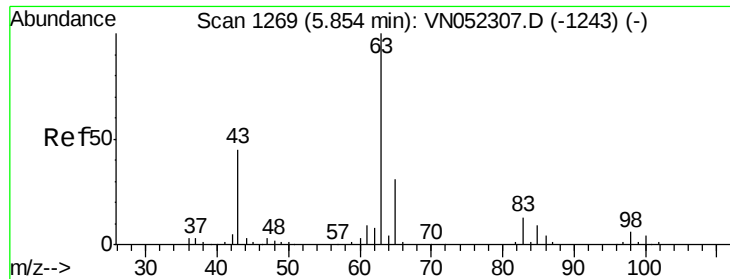
Delta R.T. 0.01 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Tgt Ion:	43	Resp:	70771
Ion	Ratio	Lower	Upper
43	100		
86	10.3	6.5	9.7#





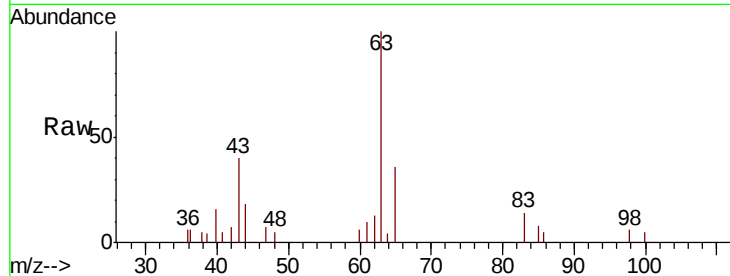
#24
 1,1-Dichloroethane
 Concen: 2.122 ug/l
 RT: 5.86 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

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

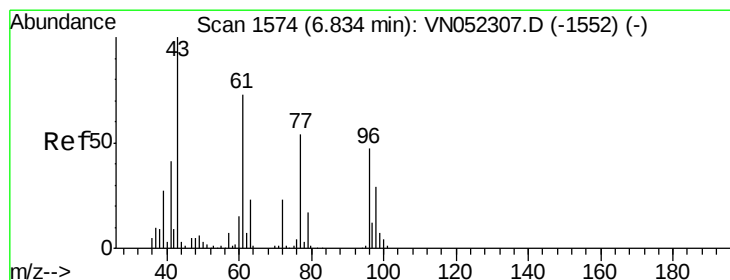
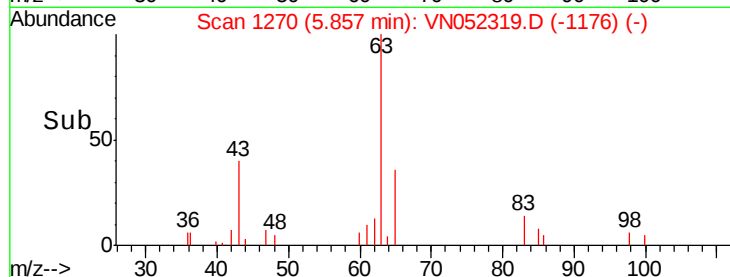
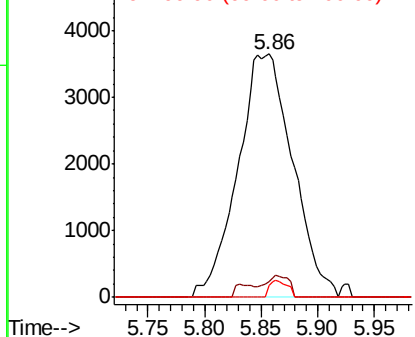
Tot Ion	Ratio	Resp	Lower	Upper
63	100			
98	6.4	2.9	8.6	
100	4.7	1.9	5.7	

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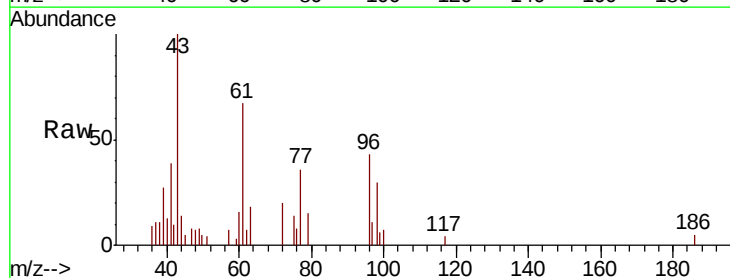


Abundance Ion 62.90 (62.60 to 63.60): VN0
 Ion 97.90 (97.60 to 98.60): VN0
 Ion 99.90 (99.60 to 100.60): VN0

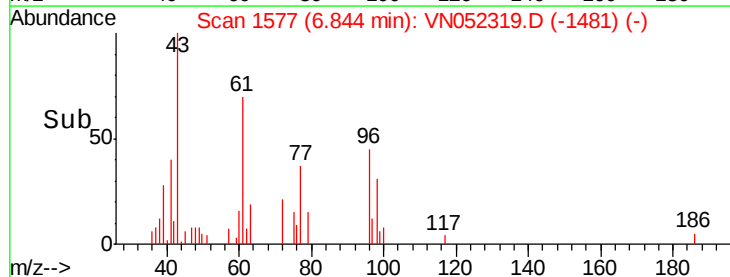
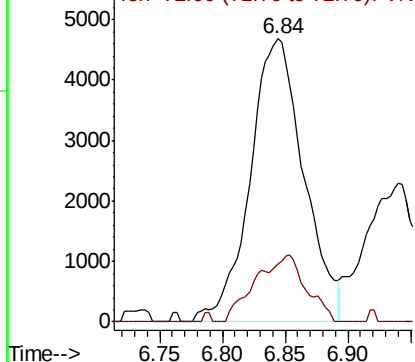


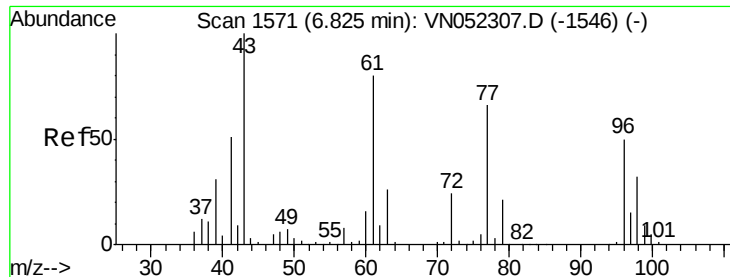
#25
 2-Butanone
 Concen: 10.166 ug/l
 RT: 6.84 min Scan# 1577
 Delta R.T. 0.01 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

Tgt Ion	Ratio	Resp	Lower	Upper
43	100			
72	20.4	18.6	27.8	



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 72.00 (71.70 to 72.70): VN0





#26

2,2-Dichloropropane

Concen: 1.945 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.01 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

Tot Ion: 77 Resp: 8304

Ion Ratio Lower Upper

77 100

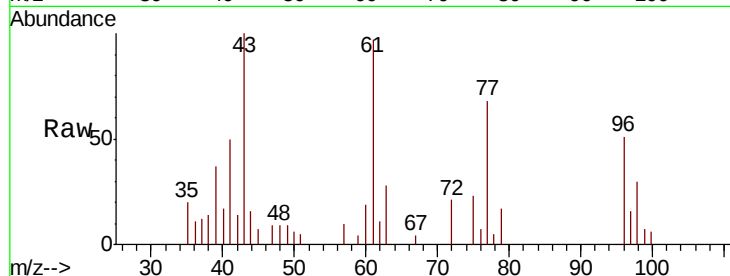
97 14.6 11.1 33.1

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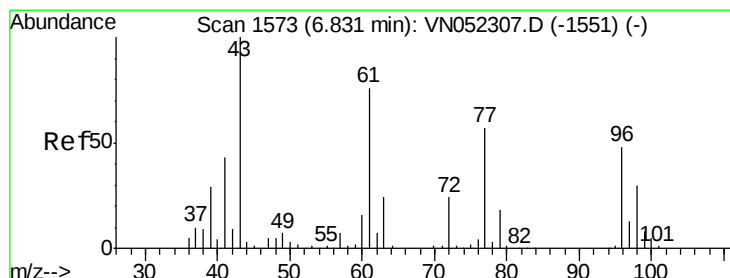
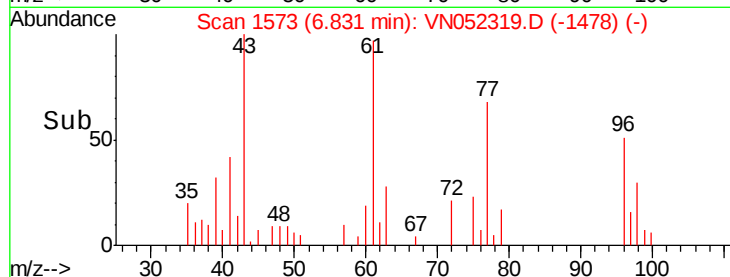
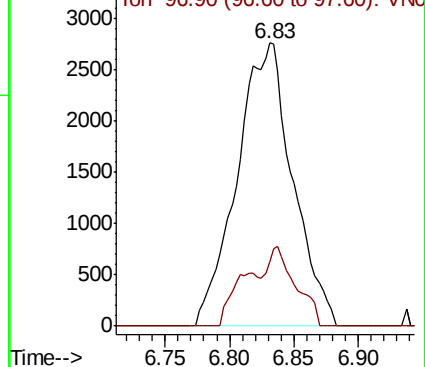
MMDadoda

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Abundance Ion 76.90 (76.60 to 77.60): VN052307.D (-1546) (-)

Ion 96.90 (96.60 to 97.60): VN052307.D (-1546) (-)



#27

cis-1,2-Dichloroethene

Concen: 2.062 ug/l m

RT: 6.84 min Scan# 1575

Delta R.T. 0.01 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

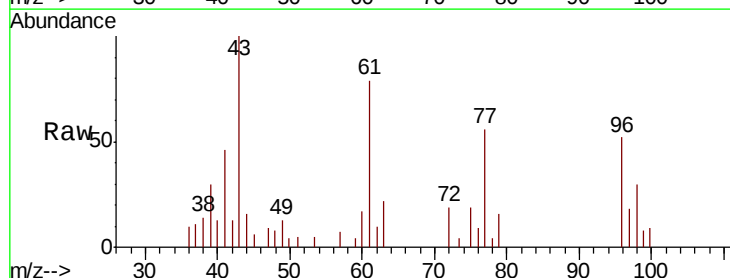
Tgt Ion: 96 Resp: 6682

Ion Ratio Lower Upper

96 100

61 164.8 0.0 316.8

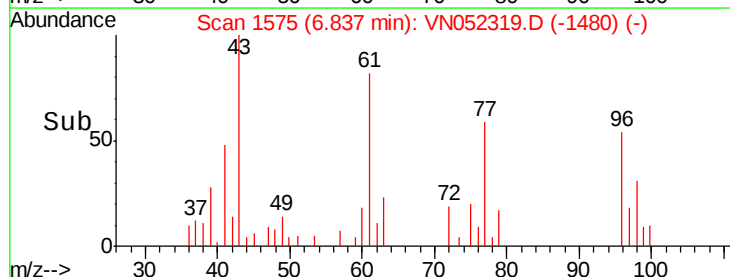
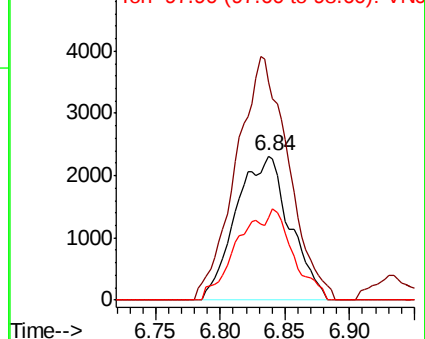
98 34.1 0.0 126.6

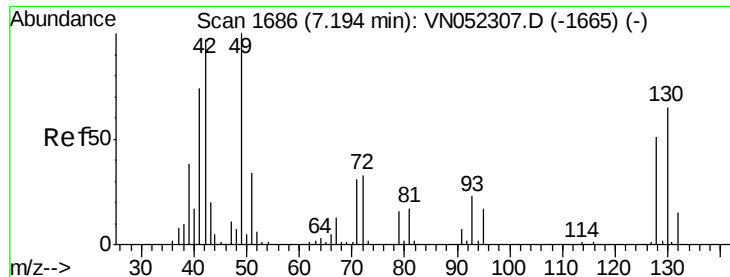


Abundance Ion 95.90 (95.60 to 96.60): VN052319.D (-1480) (-)

Ion 60.90 (60.60 to 61.60): VN052319.D (-1480) (-)

Ion 97.90 (97.60 to 98.60): VN052319.D (-1480) (-)





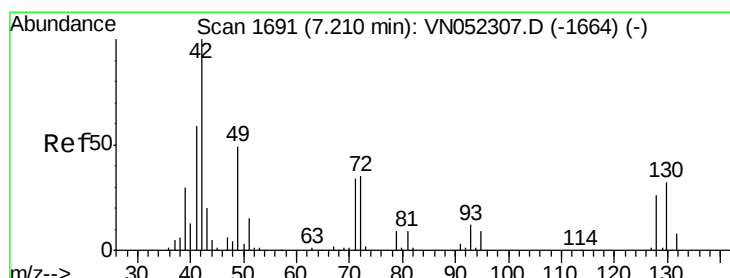
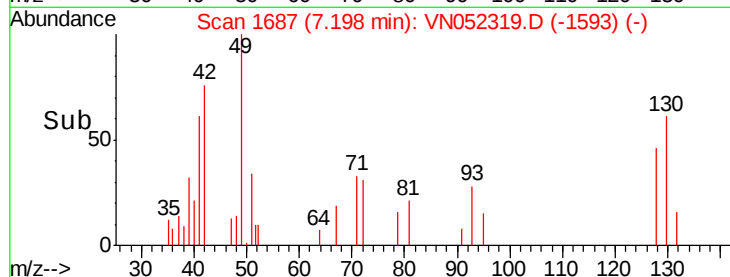
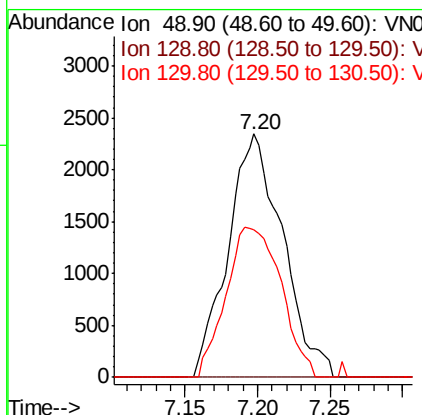
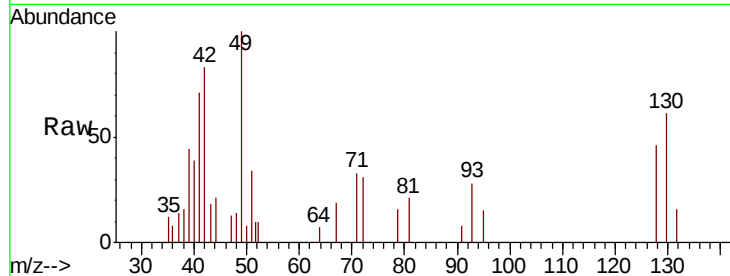
#28
Bromochloromethane
Concen: 2.058 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

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

Tot Ion: 49 Resp: 6146
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.0
130 62.0 50.4 75.6

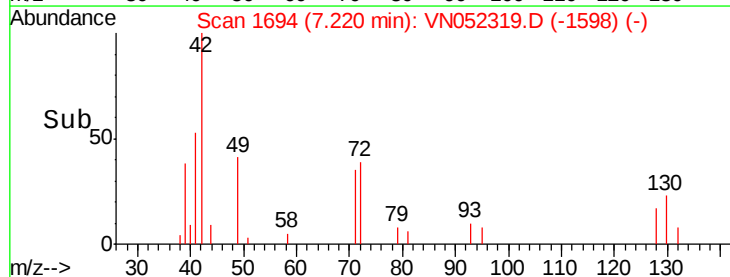
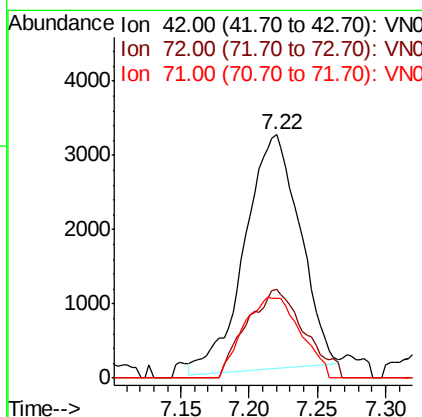
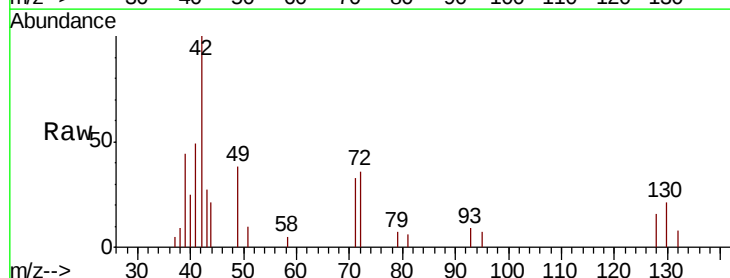
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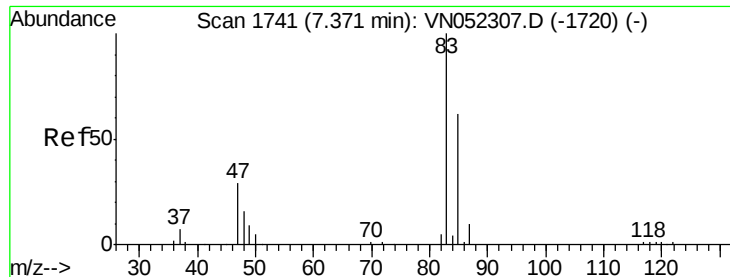
MMDadoda
11/20/2018 2:53:39 PM



#29
Tetrahydrofuran
Concen: 9.877 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.01 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion: 42 Resp: 8919
Ion Ratio Lower Upper
42 100
72 39.4 28.6 42.8
71 35.3 26.7 40.1





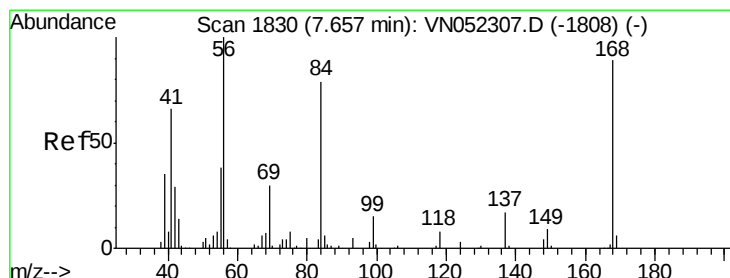
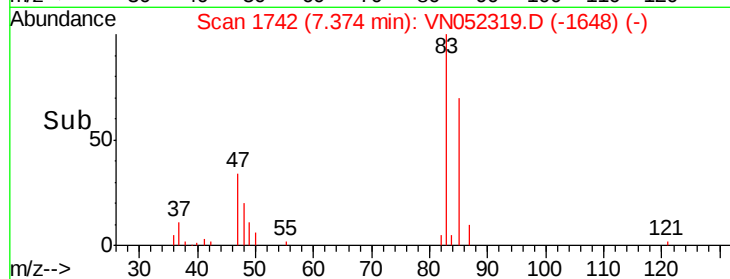
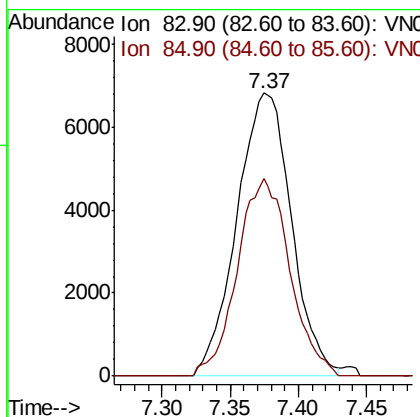
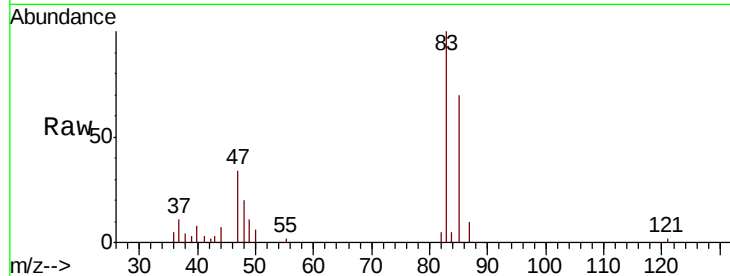
#30
Chloroform
Concen: 3.421 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

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

Tot Ion: 83 Resp: 18933
Ion Ratio Lower Upper
83 100
85 70.0 49.4 74.2

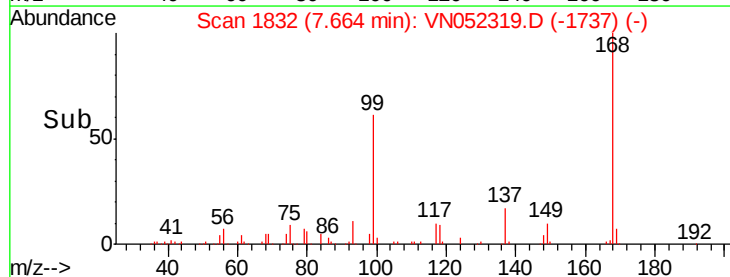
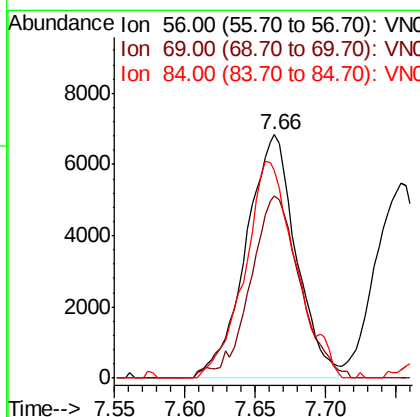
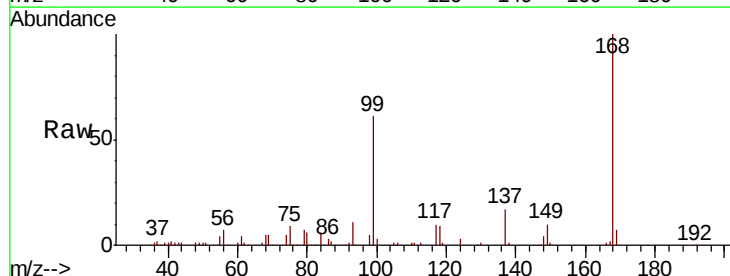
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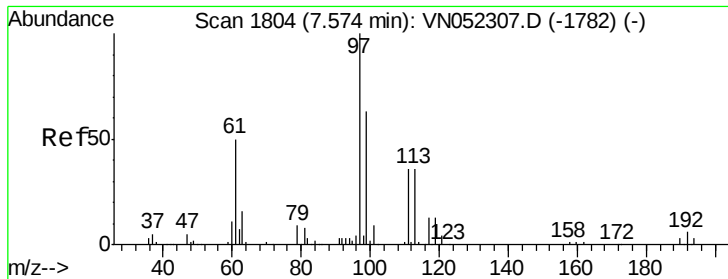
MMDadoda
11/20/2018 2:53:39 PM



#31
Cyclohexane
Concen: 2.138 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion: 56 Resp: 17003
Ion Ratio Lower Upper
56 100
69 74.9 23.8 35.8#
84 85.1 63.0 94.6





#32

1,1,1-Trichloroethane

Concen: 1.985 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

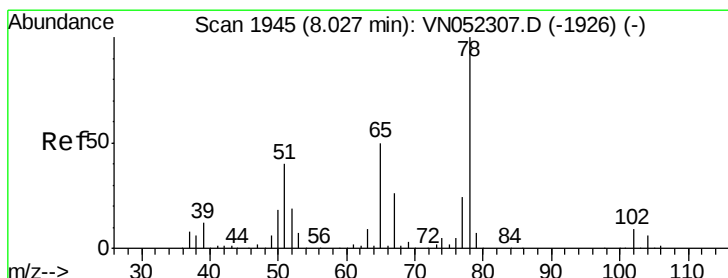
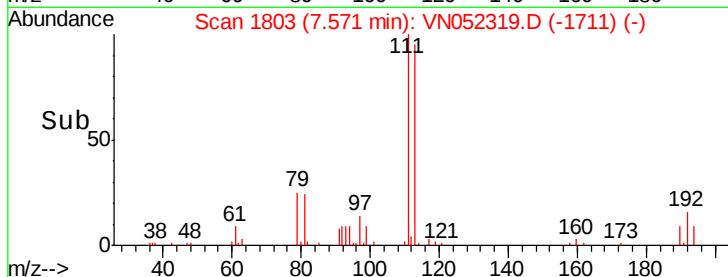
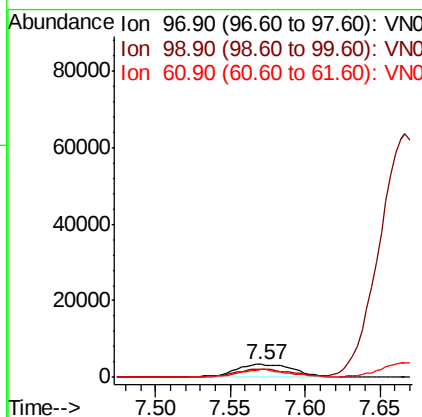
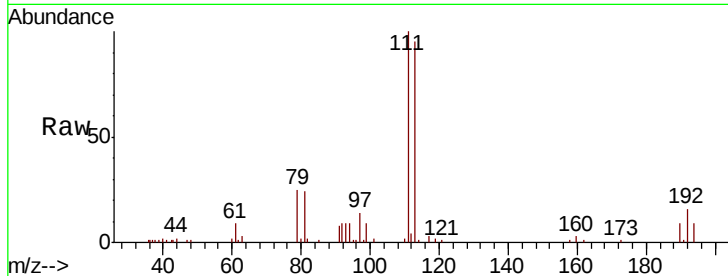
ClientSampleId :

LOQ-WATER-02-QT4-2018

Tot Ion:	97	Resp:	9357
Ion	Ratio	Lower	Upper
97	100		
99	61.7	50.2	75.2
61	52.8	40.2	60.4

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#33

1,2-Dichloroethane-d4

Concen: 1.985 ug/l

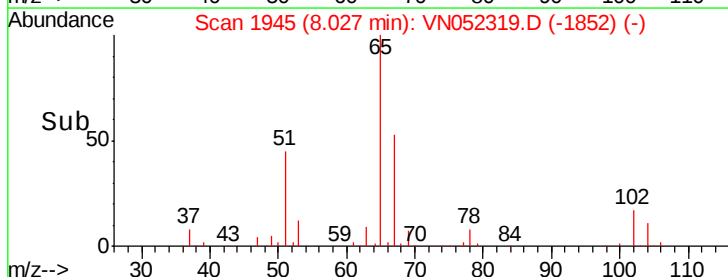
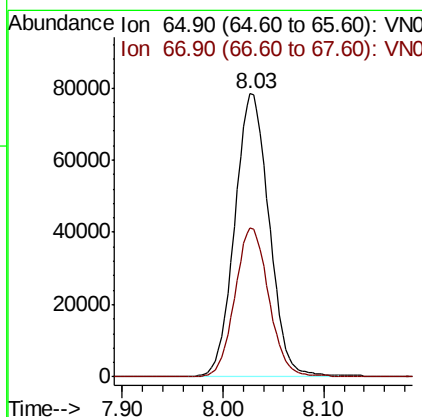
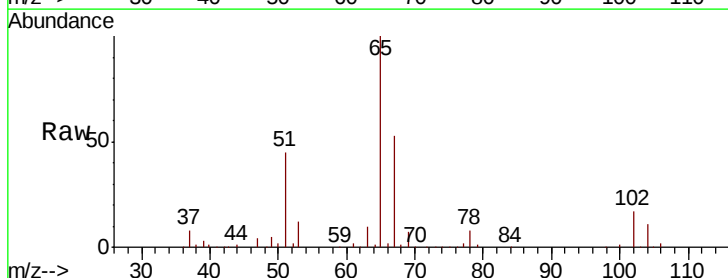
RT: 8.03 min Scan# 1945

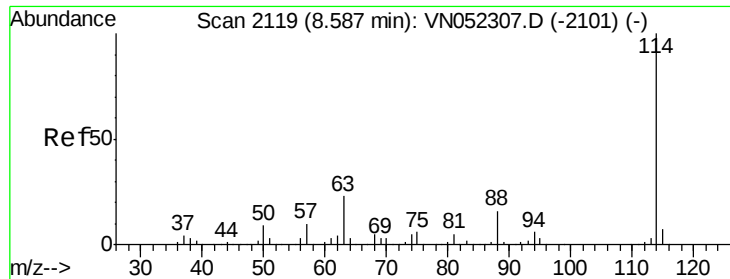
Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Tgt Ion:	65	Resp:	185705
Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	105.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

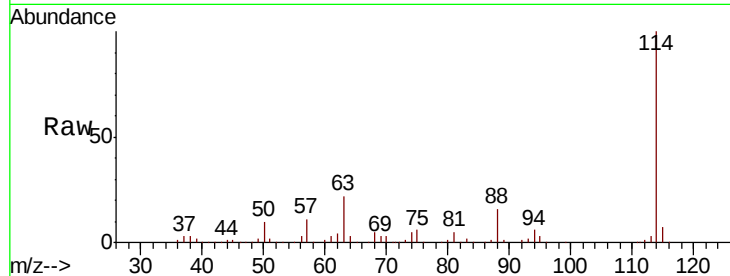
ClientSampleId :

LOQ-WATER-02-QT4-2018

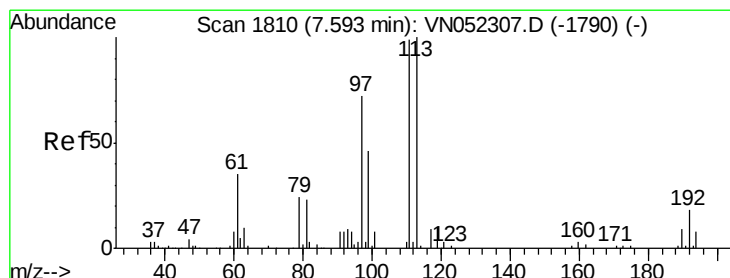
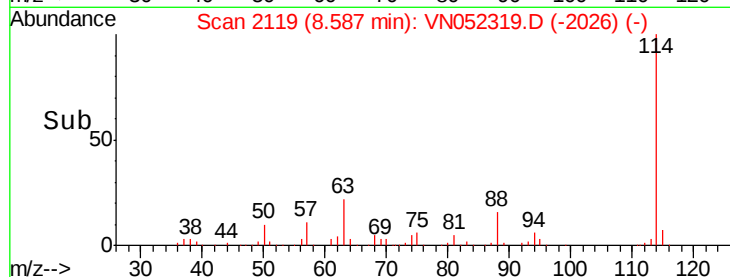
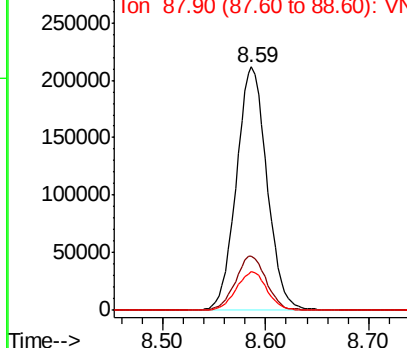
Tot Ion:	114	Resp:	436356
Ion Ratio	Lower	Upper	
114	100		
63	22.4	0.0	45.4
88	15.7	0.0	31.2

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Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 50.000 ug/l

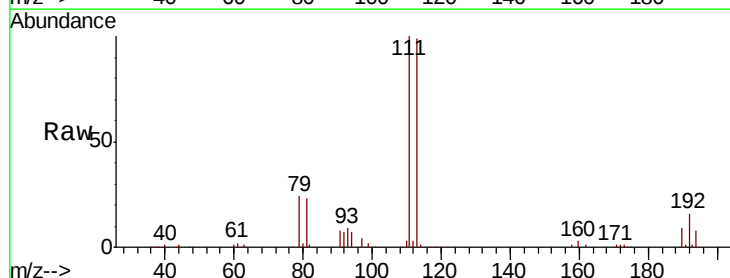
RT: 7.59 min Scan# 1810

Delta R.T. -0.00 min

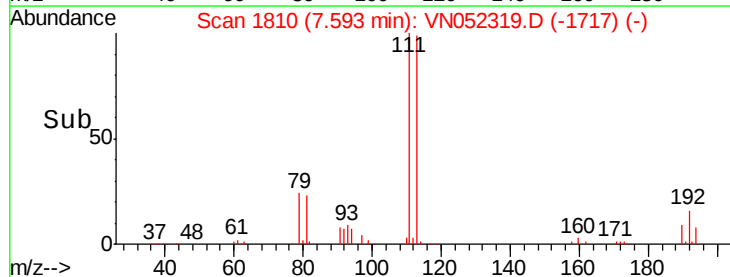
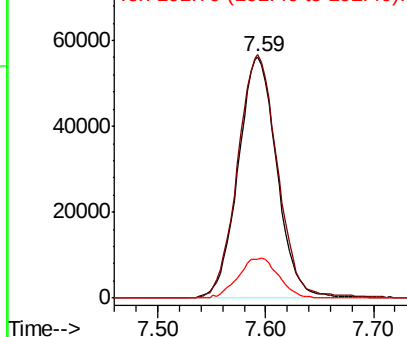
Lab File: VN052319.D

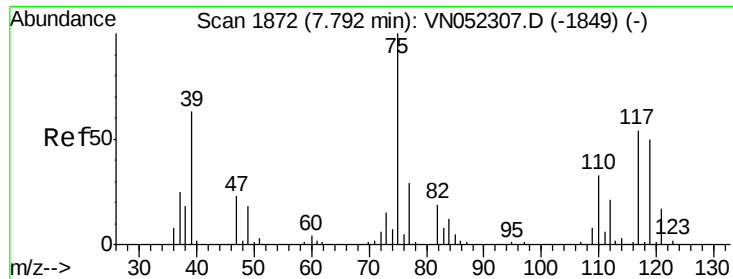
Acq: 14 Nov 2018 18:02

Tgt Ion:	113	Resp:	139983
Ion Ratio	Lower	Upper	
113	100		
111	104.3	81.0	121.6
192	17.5	13.8	20.6



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V





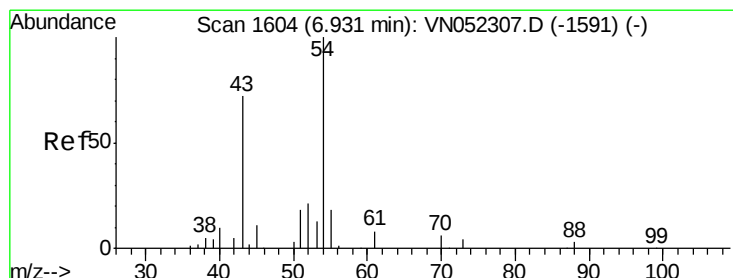
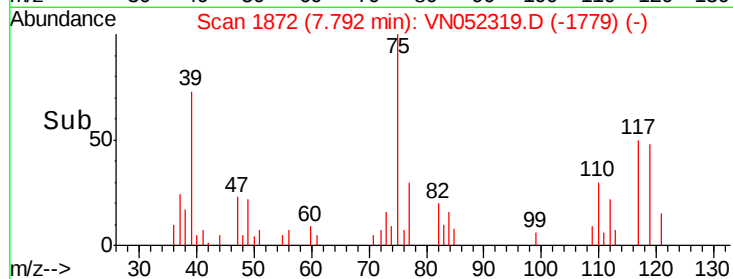
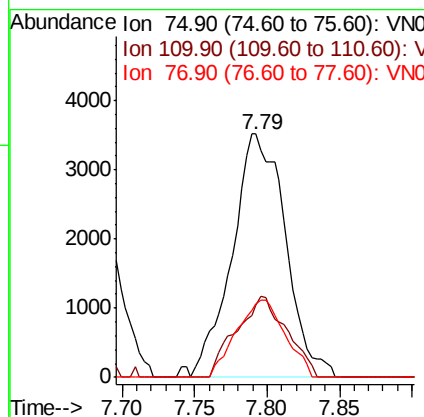
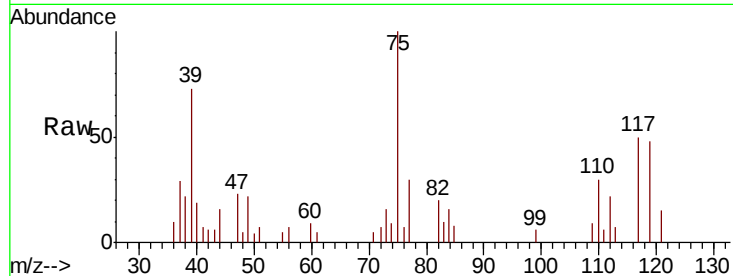
#36
 1,1-Dichloropropene
 Concen: 2.062 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. -0.00 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

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

Tot Ion	Ratio	Lower	Upper
75	100		
110	31.5	16.5	49.5
77	29.0	24.2	36.2

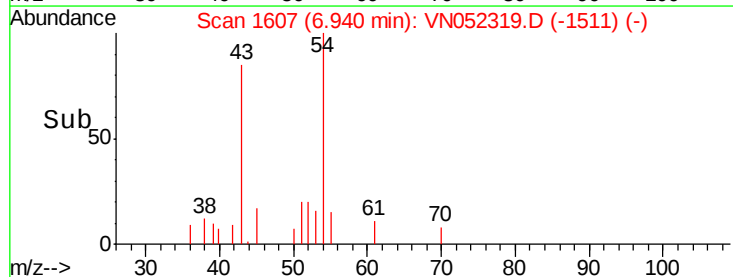
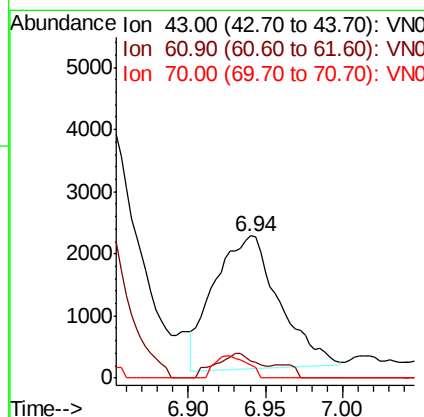
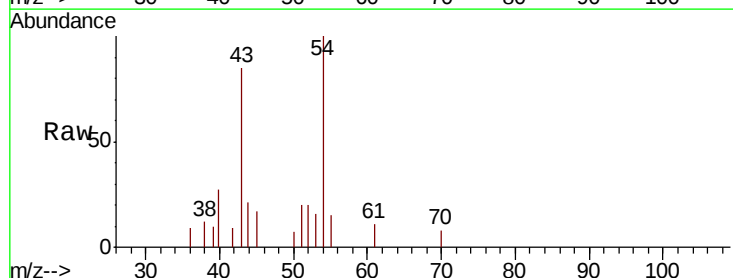
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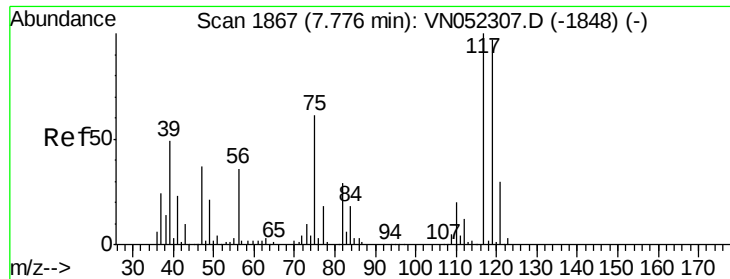
MMDadoda
 11/20/2018 2:53:39 PM



#37
 Ethyl Acetate
 Concen: 1.971 ug/l
 RT: 6.94 min Scan# 1607
 Delta R.T. 0.01 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

Tgt Ion	Ratio	Lower	Upper
43	100		
61	11.5	10.3	15.5
70	8.4	5.6	8.4#





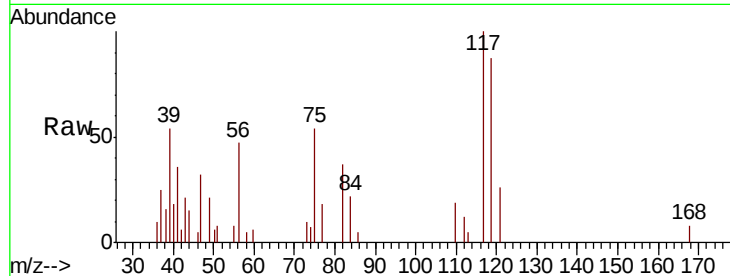
#38
Carbon Tetrachloride
Concen: 1.993 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

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

Tot Ion	Ratio	Lower	Upper
117	100		
119	87.2	77.4	116.0
121	25.7	24.0	36.0

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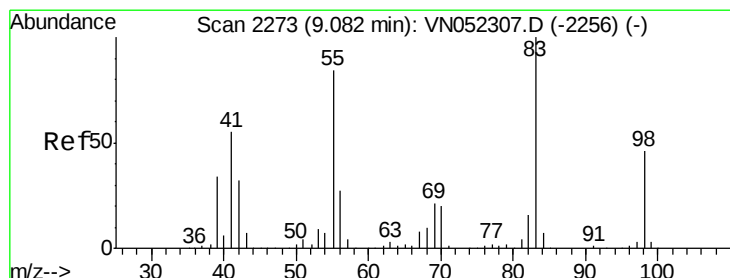
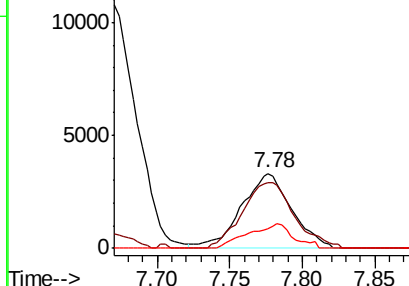
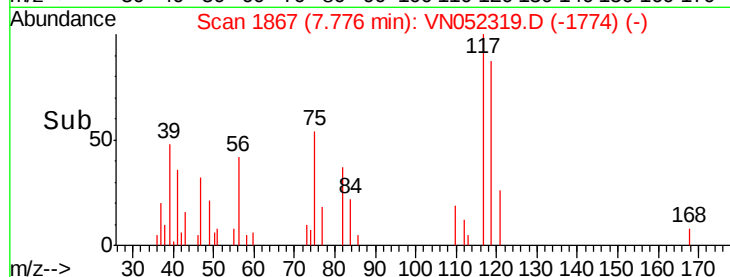


Abundance

Ion 116.80 (116.50 to 117.50): V

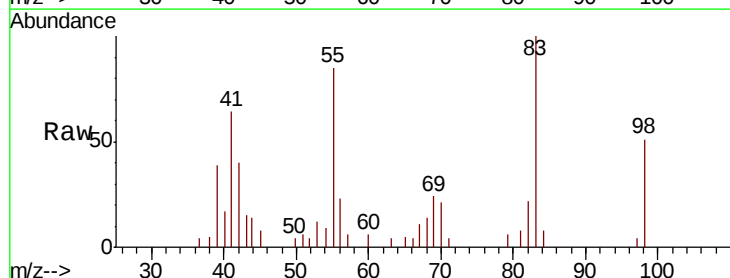
Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39
Methylcyclohexane
Concen: 1.855 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion	Ratio	Lower	Upper
83	100		
55	84.6	66.8	100.2
98	50.7	36.4	54.6

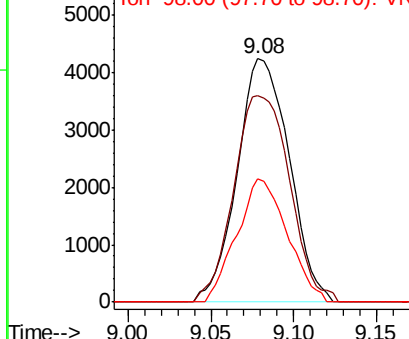
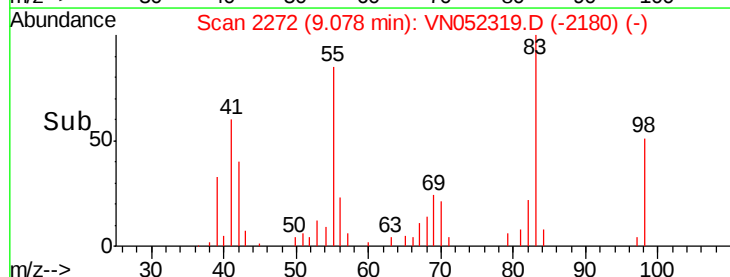


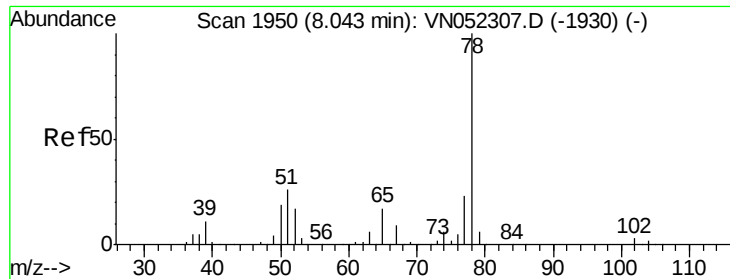
Abundance

Ion 83.00 (82.70 to 83.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.00 (97.70 to 98.70): V





#40

Benzene

Concen: 2.075 ug/l

RT: 8.04 min Scan# 1950

Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

Tot Ion: 78 Resp: 25928

Ion Ratio Lower Upper

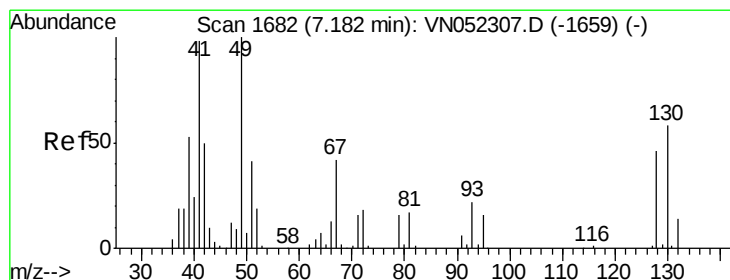
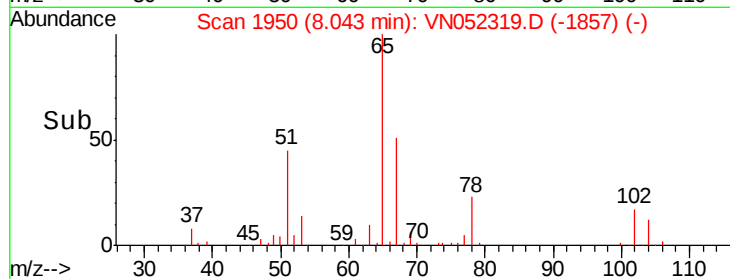
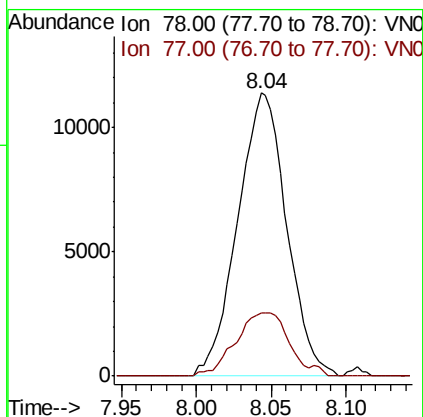
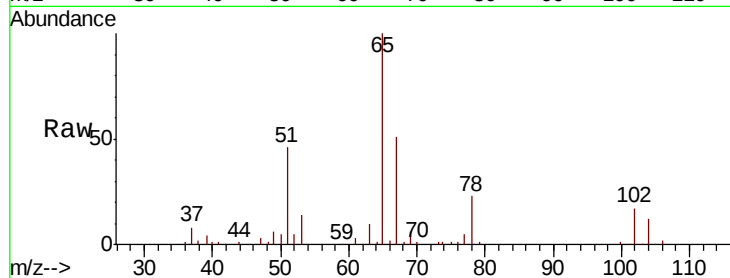
78 100

77 22.3 18.7 28.1

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#41

Methacrylonitrile

Concen: 4.777 ug/l

RT: 7.17 min Scan# 1678

Delta R.T. -0.01 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Tgt Ion: 41 Resp: 2058

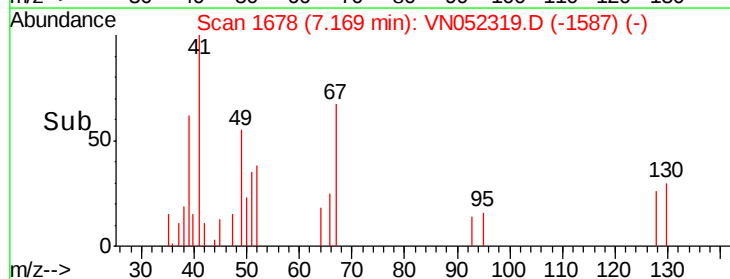
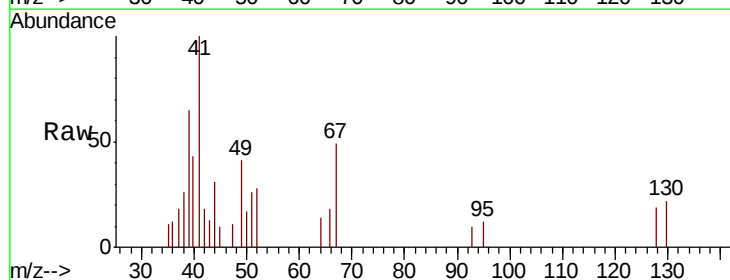
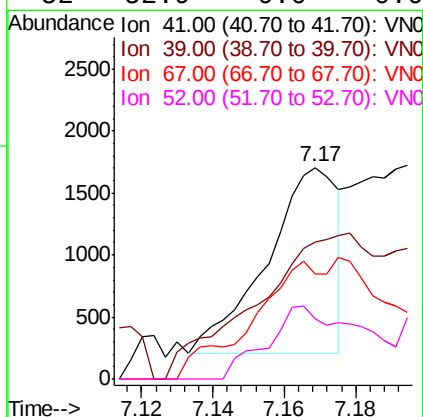
Ion Ratio Lower Upper

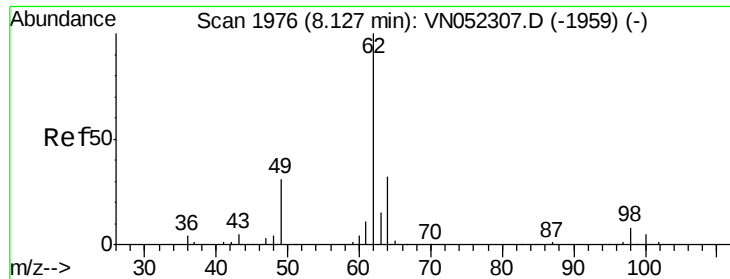
41 100

39 133.9 0.0 0.0#

67 58.1 0.0 0.0#

52 52.9 0.0 0.0#





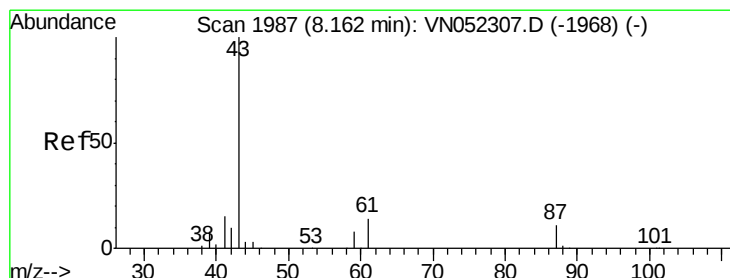
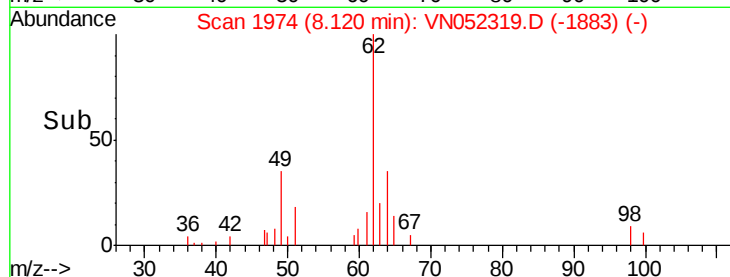
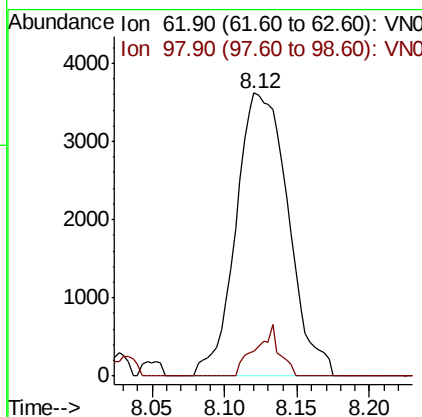
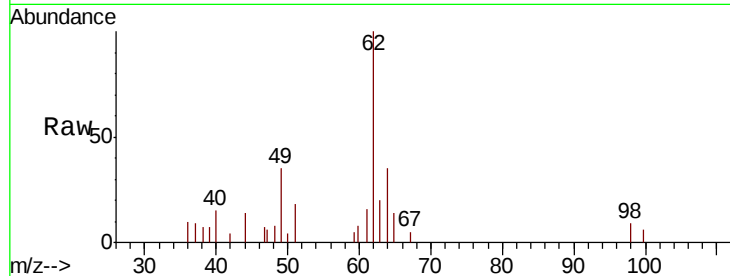
#42
 1,2-Dichloroethane
 Concen: 2.032 ug/l
 RT: 8.12 min Scan# 1974
 Delta R.T. -0.01 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

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

Tot Ion	Ratio	Lower	Upper
62	100		
98	8.3	0.0	15.6

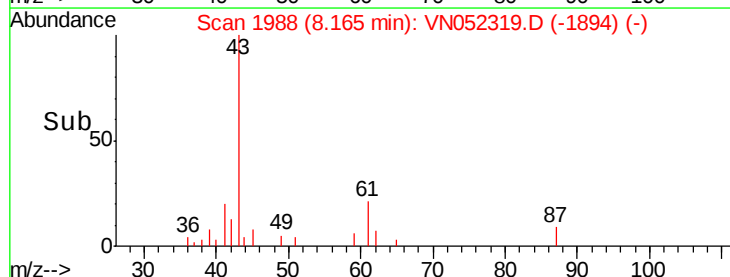
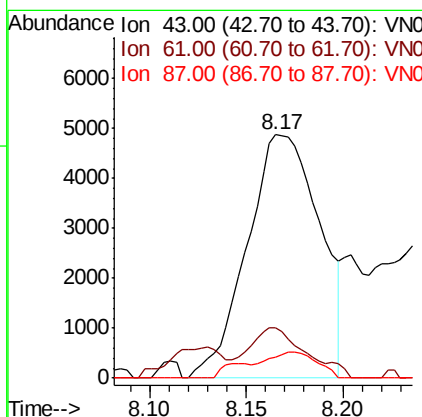
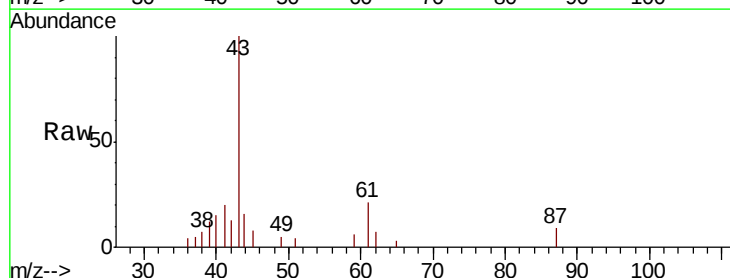
Manual Integrations
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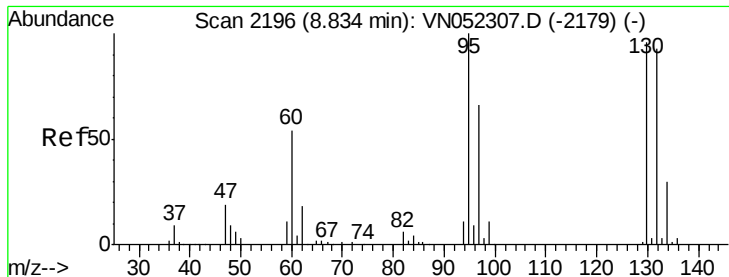
MMDadoda
 11/20/2018 2:53:39 PM



#43
 Isopropyl Acetate
 Concen: 2.077 ug/l
 RT: 8.17 min Scan# 1988
 Delta R.T. 0.00 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

Tgt Ion	Ratio	Lower	Upper
43	100		
61	16.1	12.0	18.0
87	7.5	8.3	12.5





#44

Trichloroethene

Concen: 2.004 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

Tot Ion:130 Resp: 6167

Ion Ratio Lower Upper

130 100

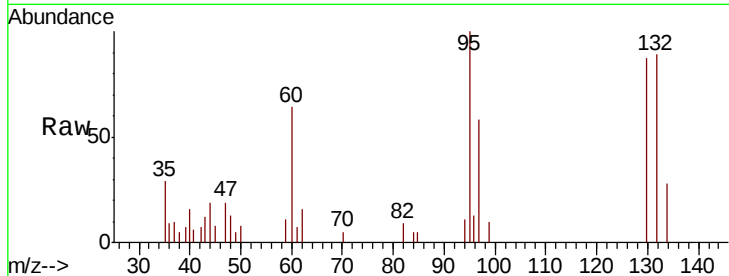
95 115.3 0.0 208.4

Manual Integrations

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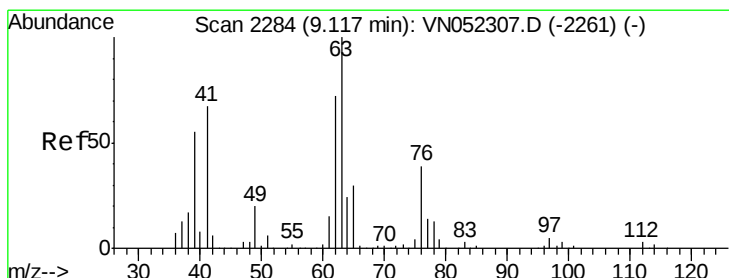
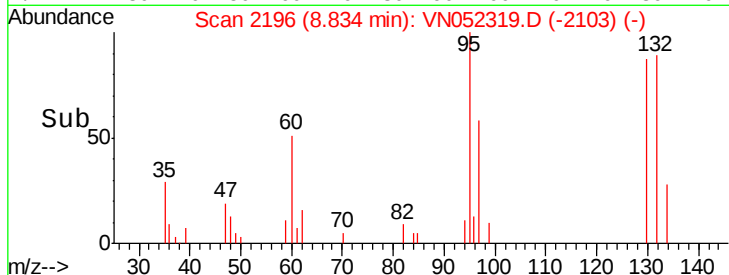
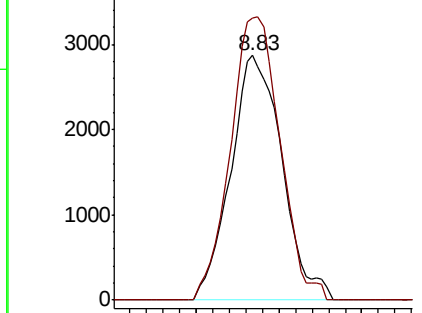
MMDadoda

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Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN



#45

1,2-Dichloropropane

Concen: 2.047 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN052319.D

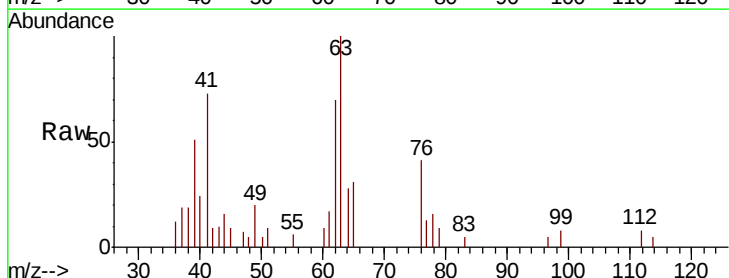
Acq: 14 Nov 2018 18:02

Tgt Ion: 63 Resp: 7260

Ion Ratio Lower Upper

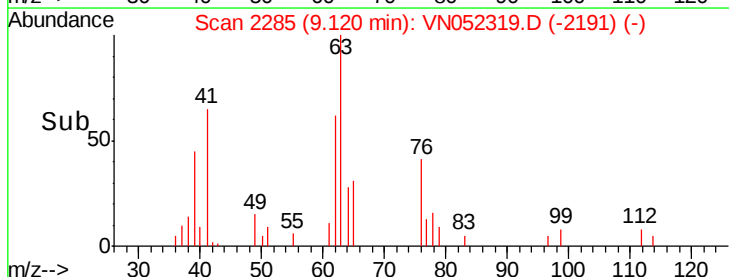
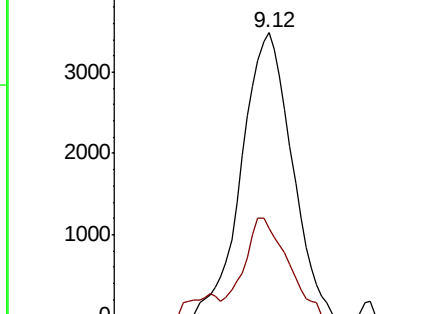
63 100

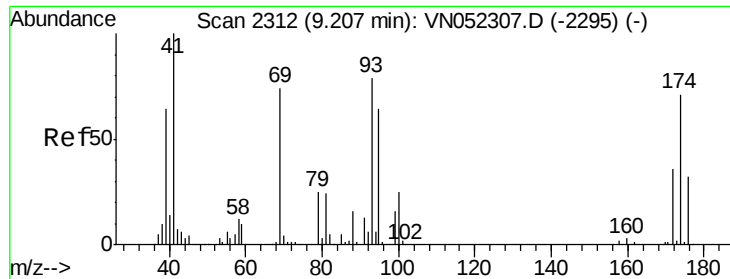
65 31.0 24.2 36.4



Abundance Ion 62.90 (62.60 to 63.60): VN

Ion 64.90 (64.60 to 65.60): VN





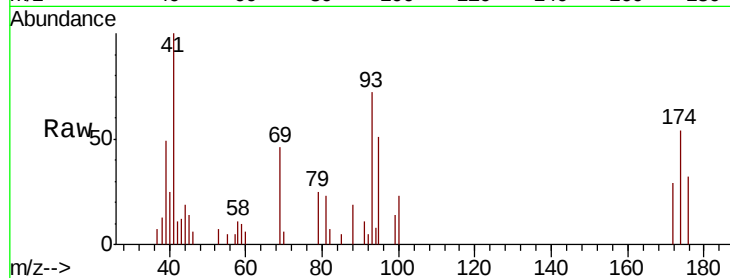
#46
Dibromomethane
Concen: 2.114 ug/l
RT: 9.21 min Scan# 2312
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

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

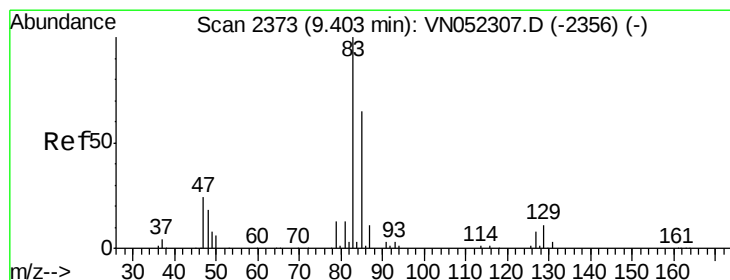
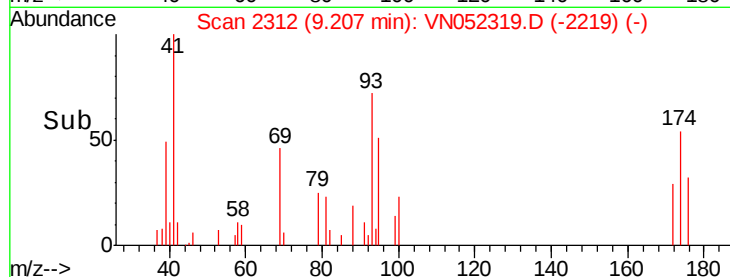
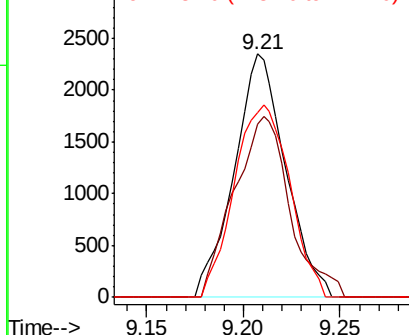
Tot Ion: 93 Resp: 4340
Ion Ratio Lower Upper
93 100
95 81.3 64.2 96.2
174 85.2 70.9 106.3

Manual Integrations
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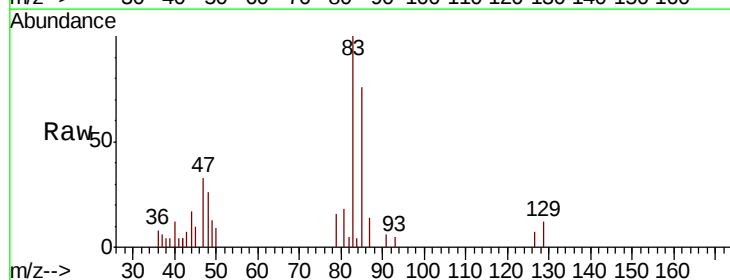


Abundance Ion 92.80 (92.50 to 93.50): VN0
Ion 94.80 (94.50 to 95.50): VN0
Ion 173.70 (173.40 to 174.40): V

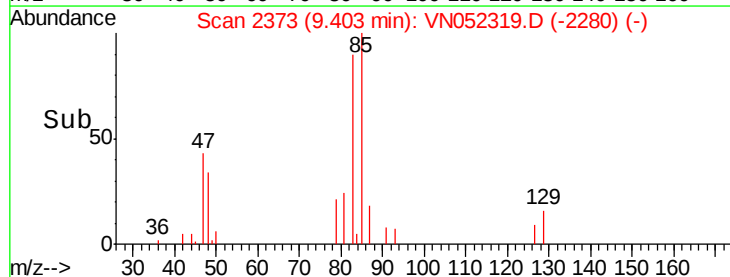
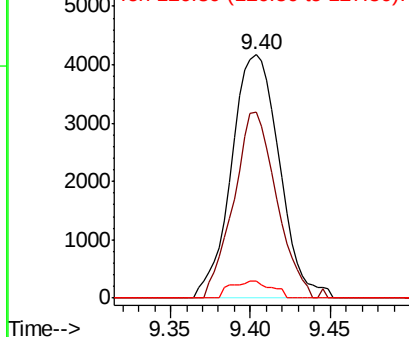


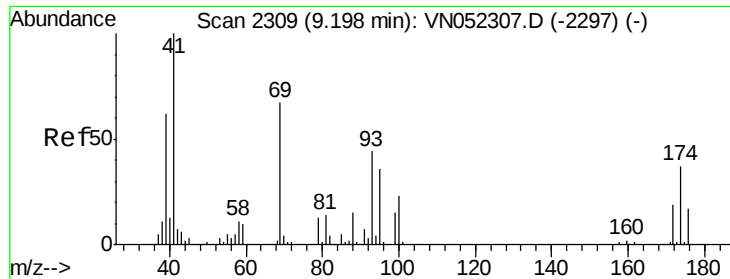
#47
Bromodichloromethane
Concen: 2.027 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion: 83 Resp: 8538
Ion Ratio Lower Upper
83 100
85 76.4 52.2 78.4
127 6.8 6.7 10.1



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0
Ion 126.80 (126.50 to 127.50): V





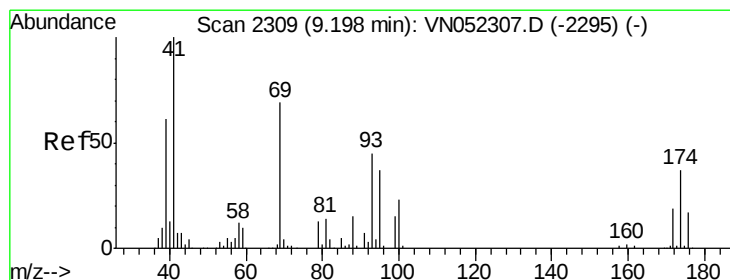
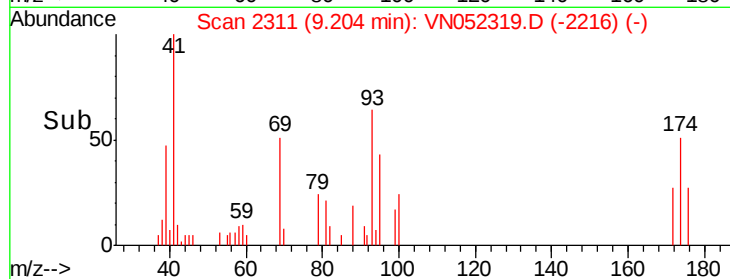
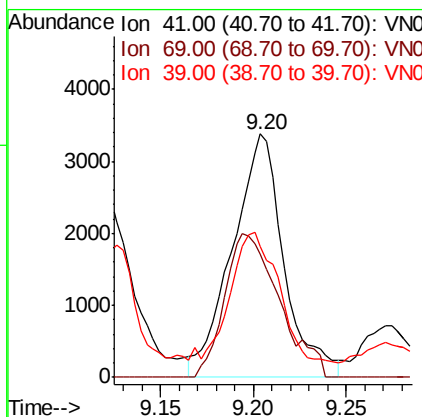
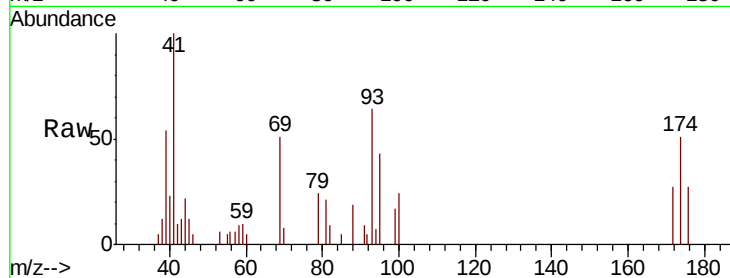
#48
Methvl methacrylate
Concen: 2.104 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.01 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

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

Tot Ion	Ratio	Lower	Upper
41	100		
69	62.4	57.1	85.7
39	57.1	52.5	78.7

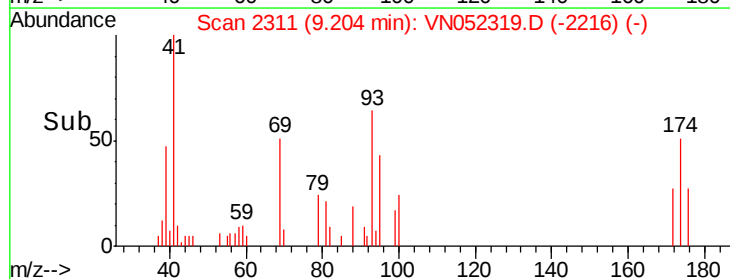
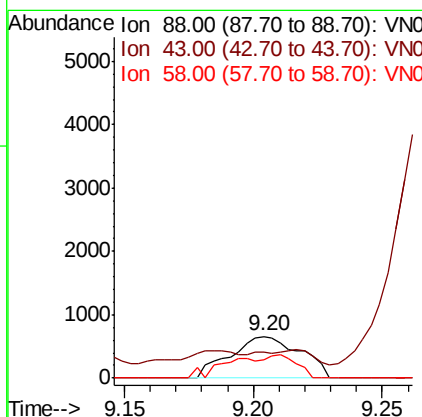
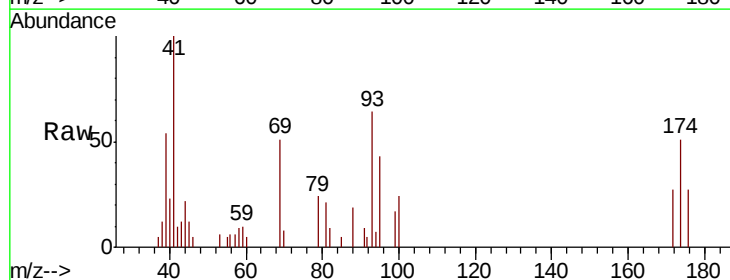
Manual Integrations
APPROVED

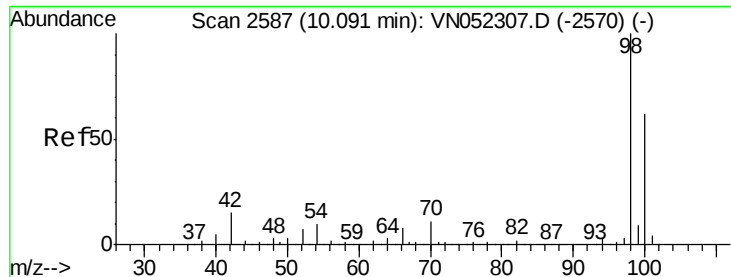
MMDadoda
11/20/2018 2:53:39 PM



#49
1,4-Dioxane
Concen: 51.891 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.01 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion	Ratio	Lower	Upper
88	100		
43	0.0	33.3	49.9#
58	22.5	59.2	88.8#





#50

Toluene-d8

Concen: 51.891 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

Tot Ion: 98 Resp: 535036

Ion Ratio Lower Upper

98 100

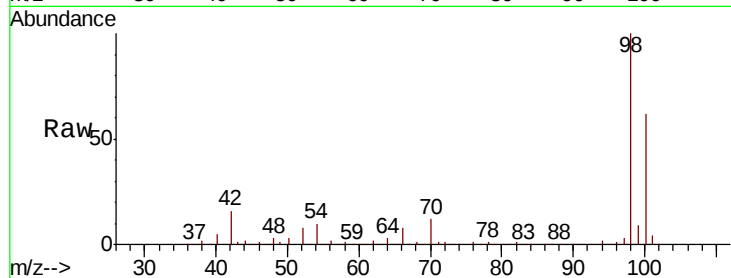
100 62.3 49.5 74.3

Manual Integrations

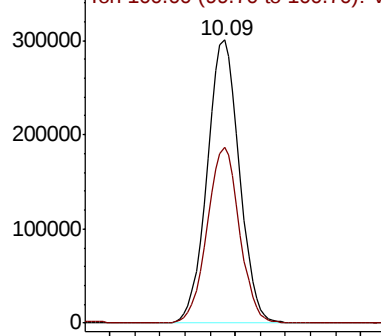
APPROVED

MMDadoda

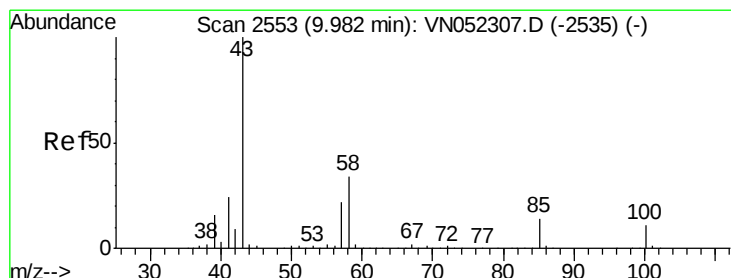
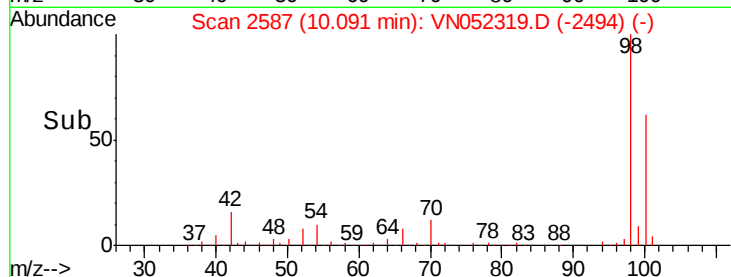
11/20/2018 2:53:39 PM



Abundance Ion 98.00 (97.70 to 98.70): VN052307.D (-2570) (-)



Time-->



#51

4-Methyl-2-Pentanone

Concen: 9.687 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN052319.D

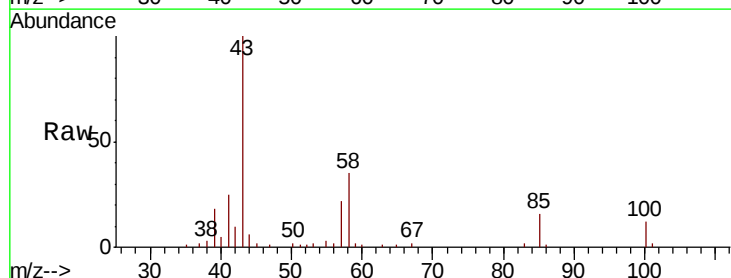
Acq: 14 Nov 2018 18:02

Tgt Ion: 43 Resp: 29865

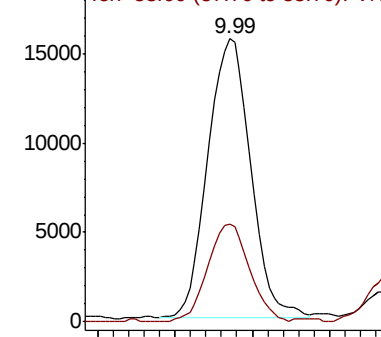
Ion Ratio Lower Upper

43 100

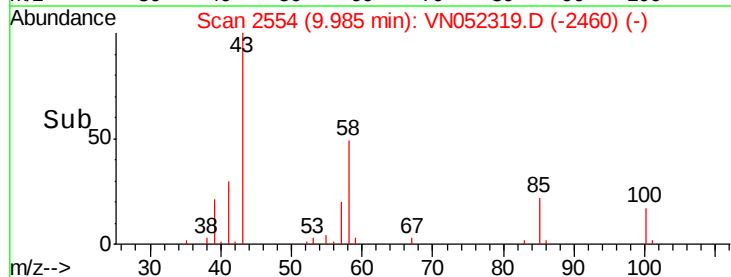
58 34.4 27.0 40.6

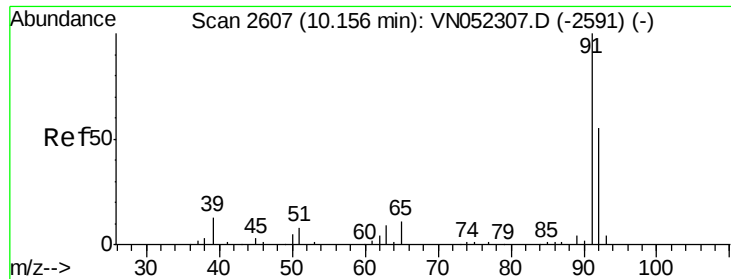


Abundance Ion 43.00 (42.70 to 43.70): VN052307.D (-2535) (-)



Time-->





#52

Toluene

Concen: 2.055 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

Tot Ion: 92 Resp: 15362

Ion Ratio Lower Upper

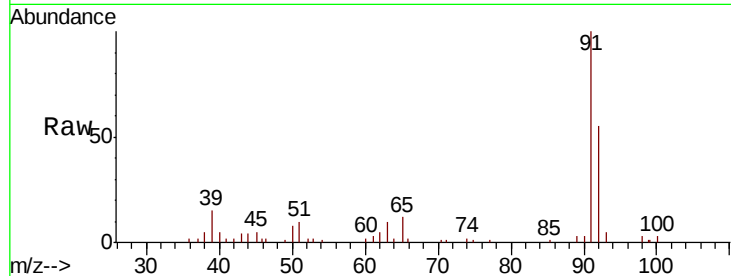
92 100

91 177.1 143.6 215.4

Manual Integrations
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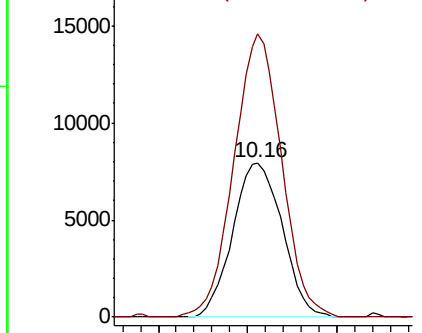
MMDadoda

11/20/2018 2:53:39 PM

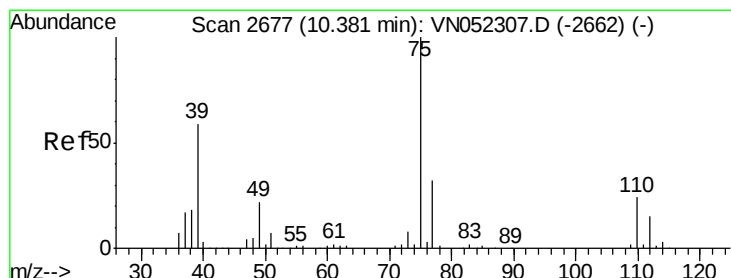
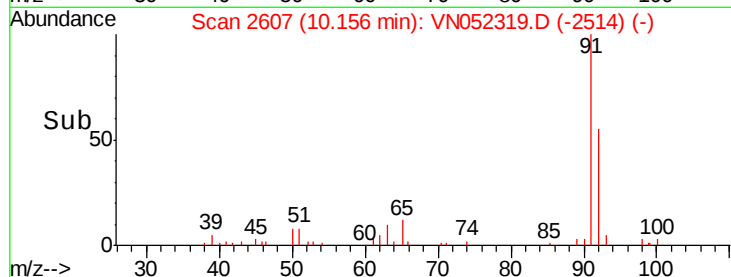


Abundance Ion 92.00 (91.70 to 92.70): VN052307.D (-2591) (-)

Ion 91.00 (90.70 to 91.70): VN052307.D (-2591) (-)



Time-->



#53

t-1,3-Dichloropropene

Concen: 1.772 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VN052319.D

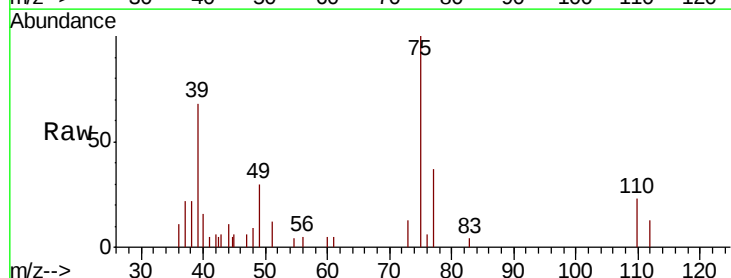
Acq: 14 Nov 2018 18:02

Tgt Ion: 75 Resp: 7526

Ion Ratio Lower Upper

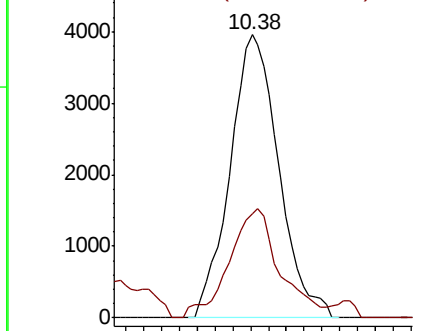
75 100

77 33.1 25.7 38.5

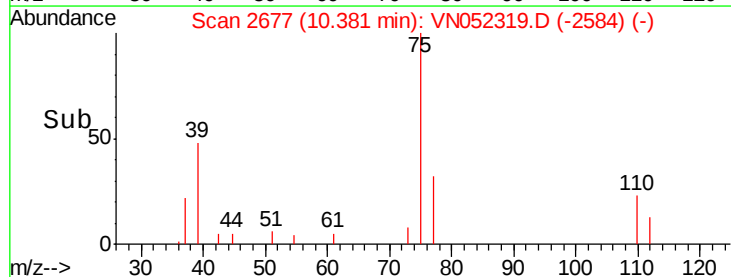


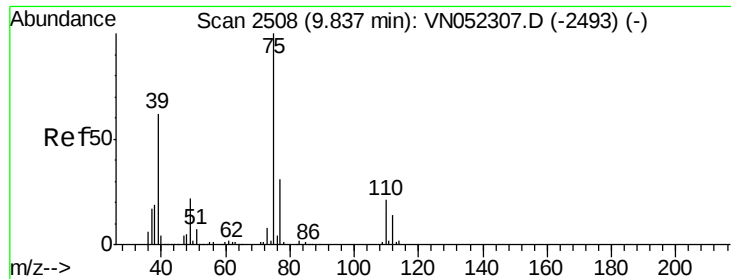
Abundance Ion 74.90 (74.60 to 75.60): VN052307.D (-2662) (-)

Ion 76.90 (76.60 to 77.60): VN052307.D (-2662) (-)



Time-->





#54

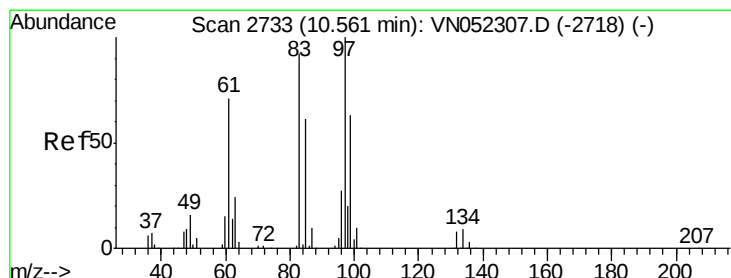
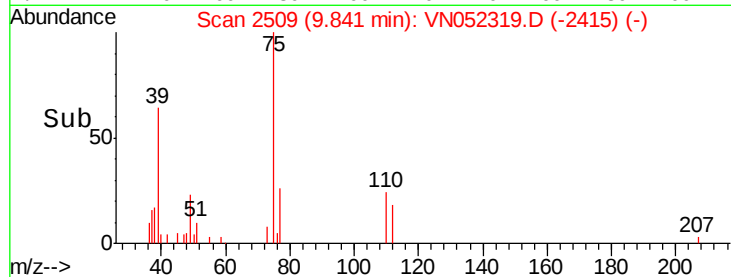
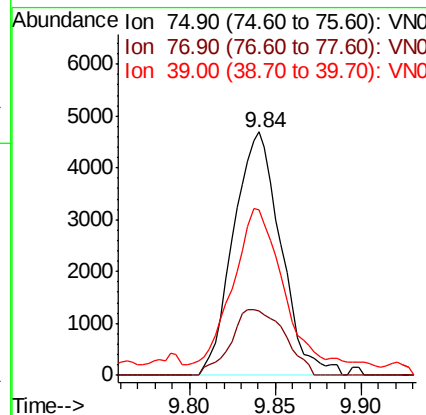
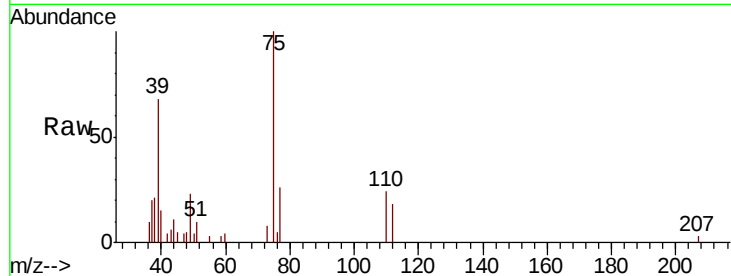
cis-1,3-Dichloropropene
 Concen: 1.855 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. 0.00 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

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

Tot Ion	Ratio	Lower	Upper
75	100		
77	26.5	24.6	36.8
39	63.2	49.9	74.9

Manual Integrations
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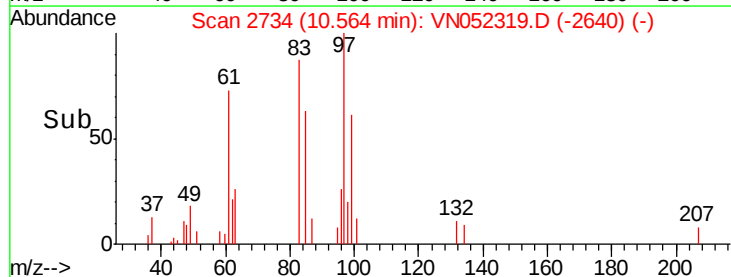
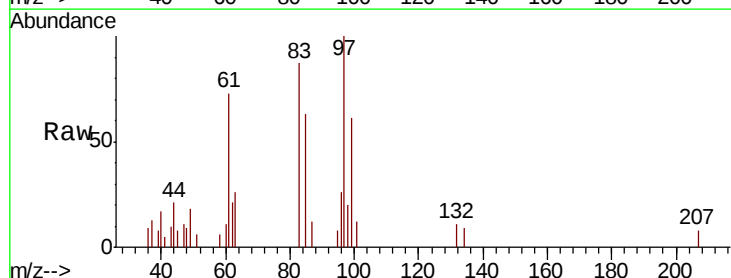
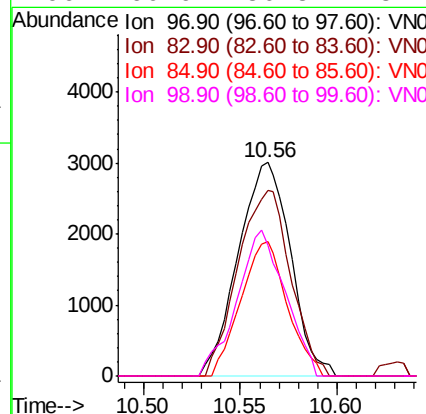
MMDadoda
 11/20/2018 2:53:39 PM

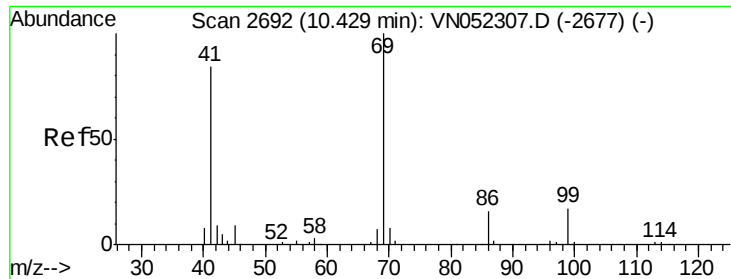


#55

1,1,2-Trichloroethane
 Concen: 2.081 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

Tgt Ion	Ratio	Lower	Upper
97	100		
83	87.2	73.8	110.6
85	62.7	49.0	73.4
99	60.9	50.5	75.7





#56

Ethyl methacrylate

Concen: 1.828 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

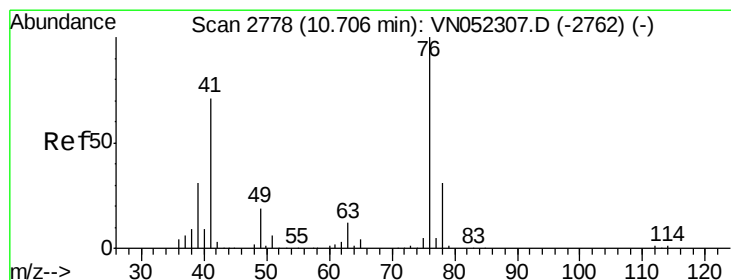
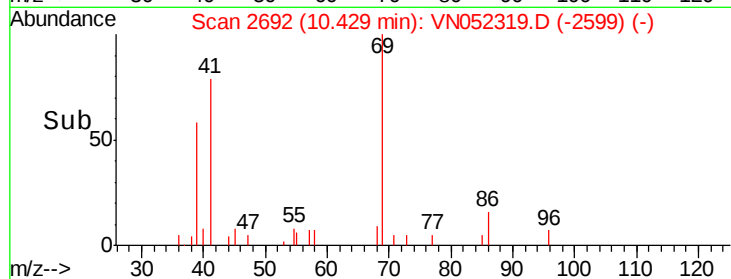
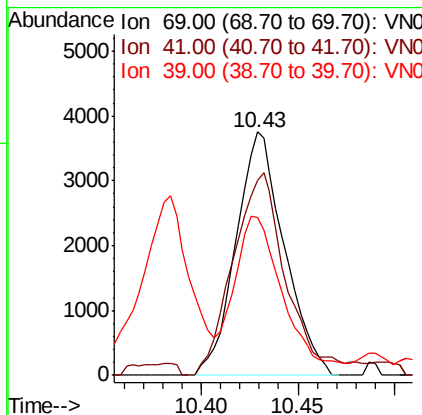
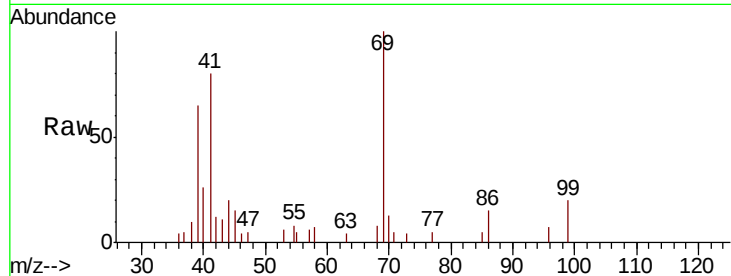
ClientSampleId :

LOQ-WATER-02-QT4-2018

Tot Ion:	69	Resp:	6515
Ion	Ratio	Lower	Upper
69	100		
41	92.8	64.8	97.2
39	59.7	41.0	61.6

Manual Integrations
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11/20/2018 2:53:39 PM



#57

1,3-Dichloropropane

Concen: 2.003 ug/l

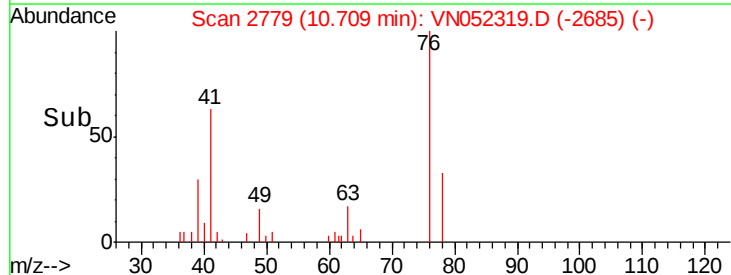
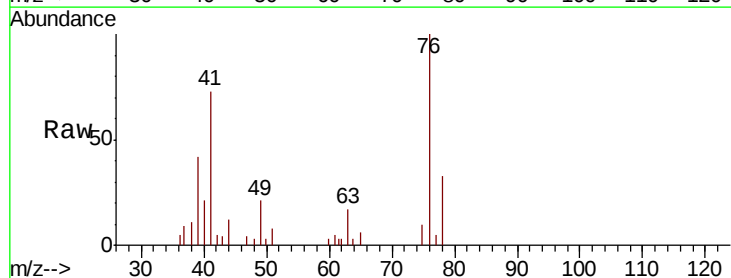
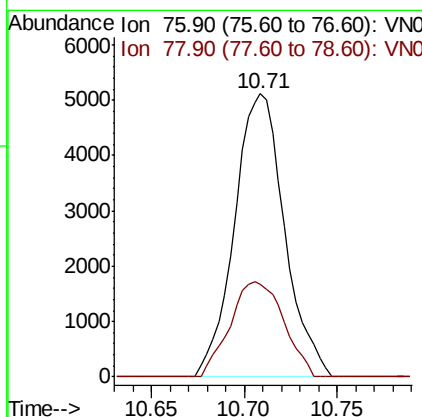
RT: 10.71 min Scan# 2779

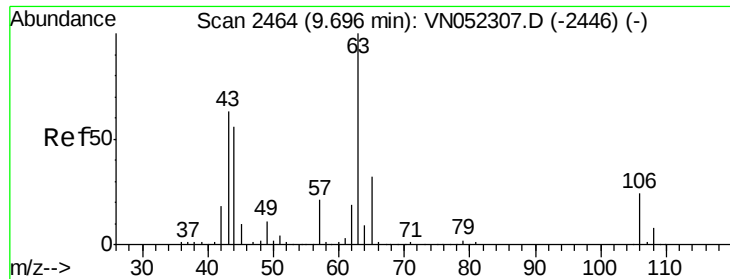
Delta R.T. 0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Tgt Ion:	76	Resp:	9611
Ion	Ratio	Lower	Upper
76	100		
78	35.9	25.7	38.5





#58

2-Chloroethyl Vinyl ether

Concen: 9.099 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2018

Tot Ion: 63 Resp: 18460

Ion Ratio Lower Upper

63 100

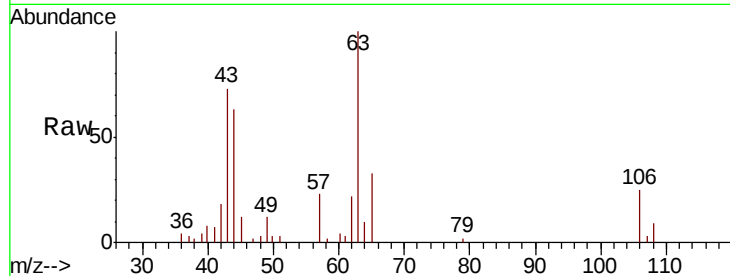
106 23.5 19.3 28.9

Manual Integrations

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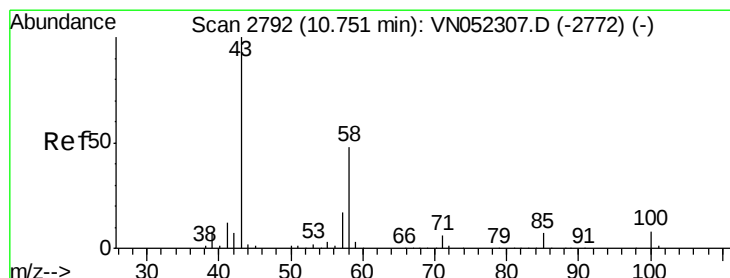
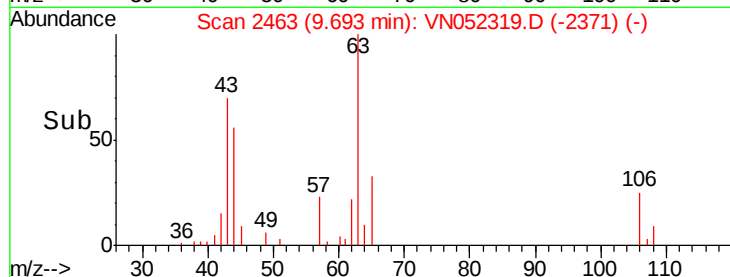
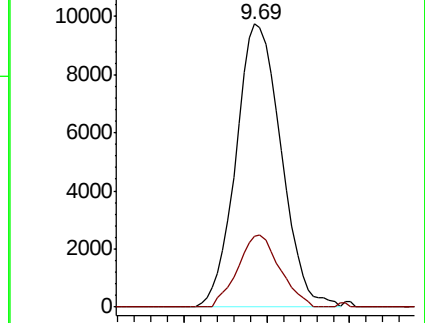
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Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V



#59

2-Hexanone

Concen: 9.029 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VN052319.D

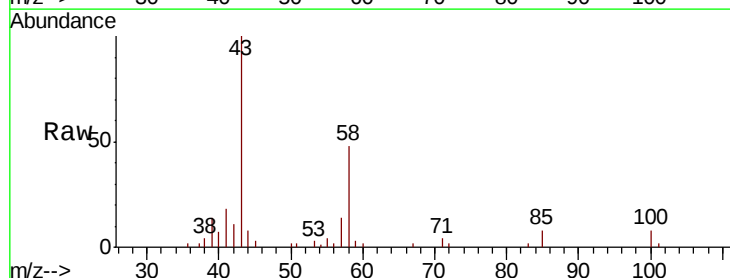
Acq: 14 Nov 2018 18:02

Tgt Ion: 43 Resp: 19148

Ion Ratio Lower Upper

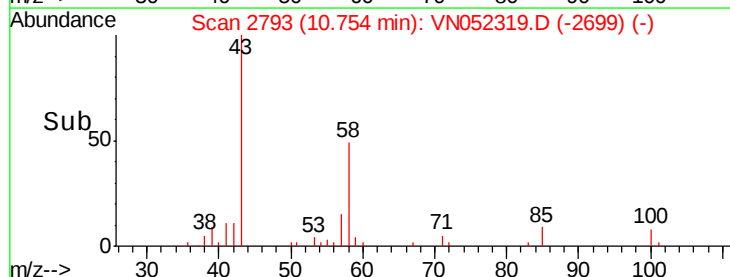
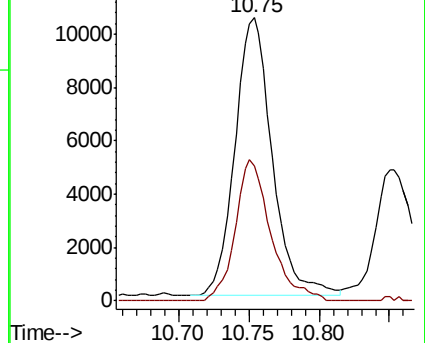
43 100

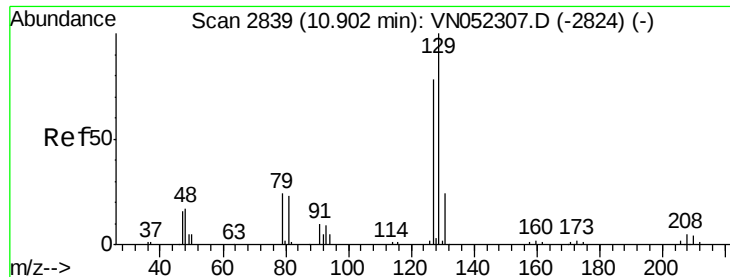
58 48.7 23.5 70.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





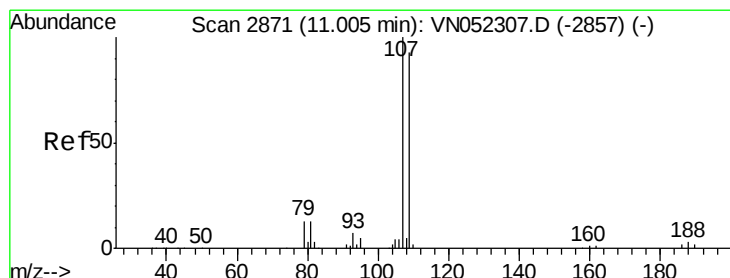
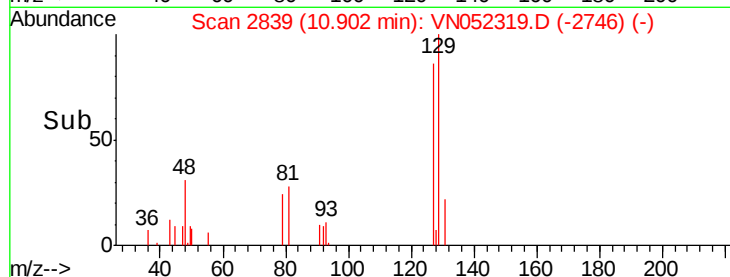
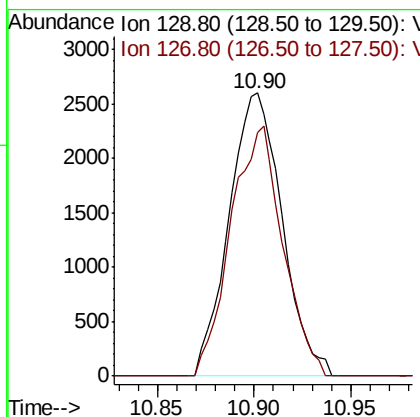
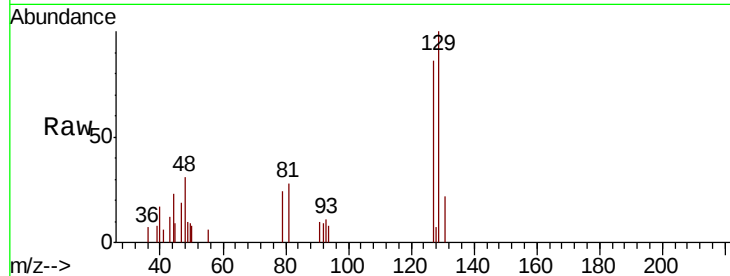
#60
 Dibromochloromethane
 Concen: 1.688 ug/l
 RT: 10.90 min Scan# 2839
 Delta R.T. -0.00 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

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

Tot Ion	Ratio	Lower	Upper
129	100		
127	86.7	38.5	115.5

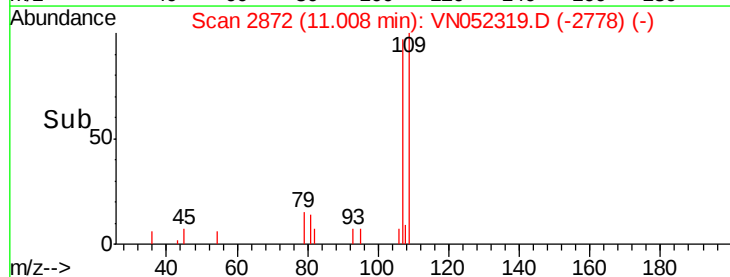
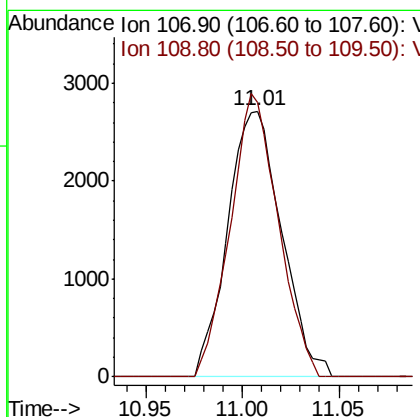
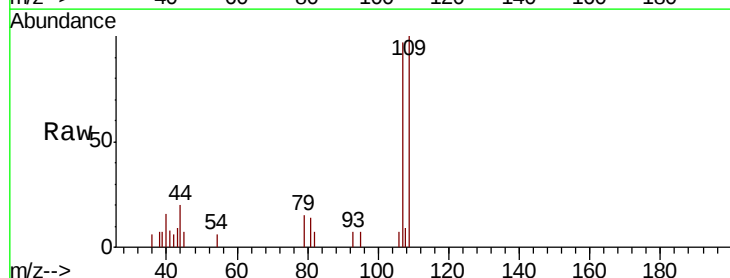
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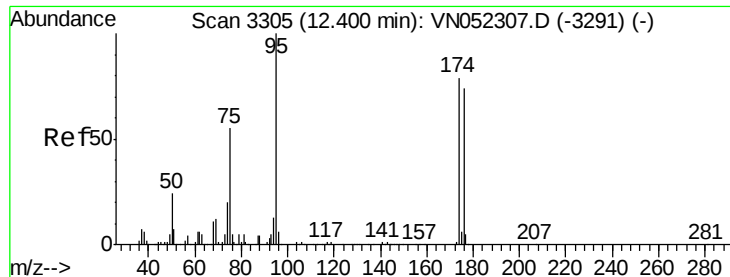
MMDadoda
 11/20/2018 2:53:39 PM



#61
 1,2-Dibromoethane
 Concen: 1.950 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.8	74.9	112.3





#62

4-Bromofluorobenzene

Concen: 1.950 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

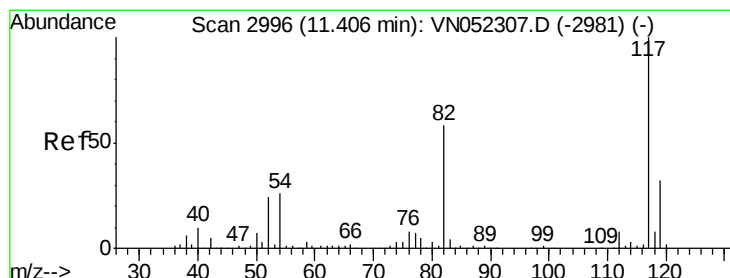
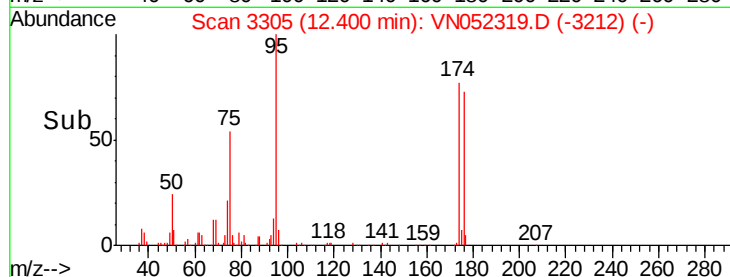
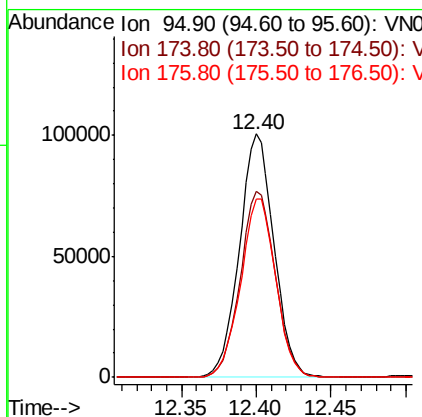
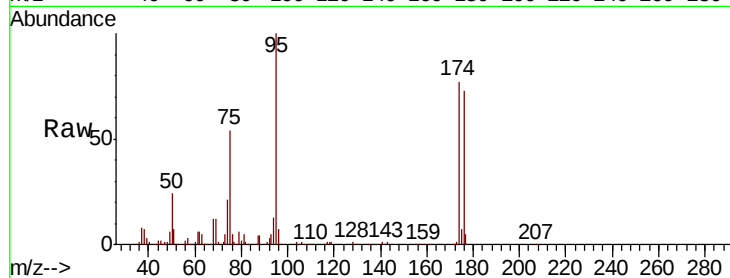
ClientSampleId :

LOQ-WATER-02-QT4-2018

Tot Ion:	95	Resp:	161773
Ion Ratio	Lower	Upper	
95	100		
174	77.4	0.0	156.0
176	74.4	0.0	148.4

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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

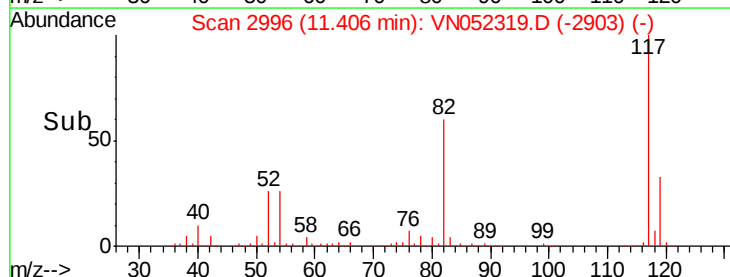
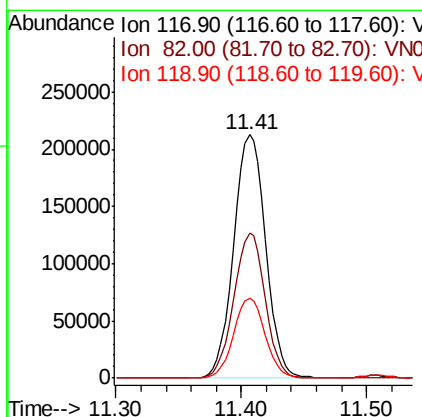
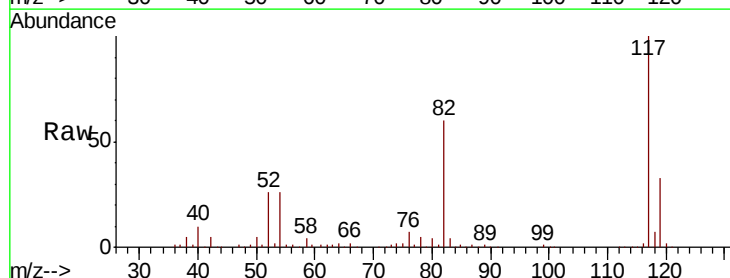
RT: 11.41 min Scan# 2996

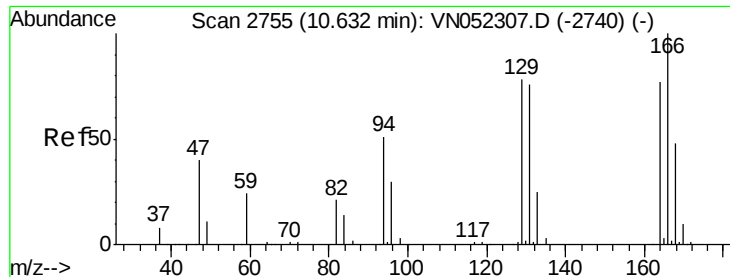
Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Tgt Ion:	117	Resp:	376633
Ion Ratio	Lower	Upper	
117	100		
82	59.7	46.5	69.7
119	32.8	25.7	38.5





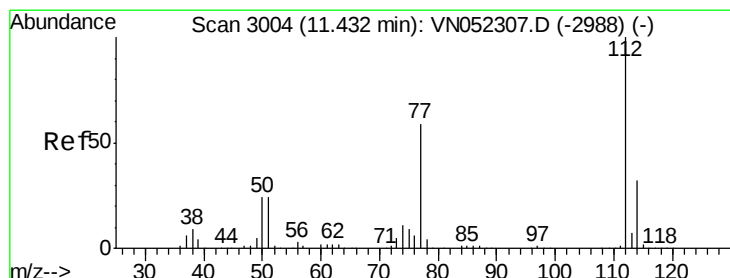
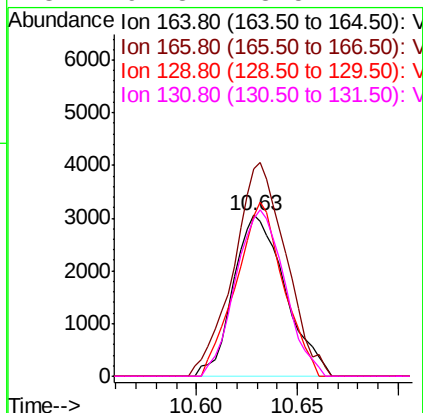
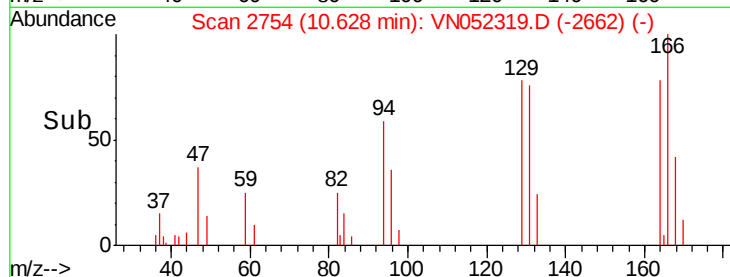
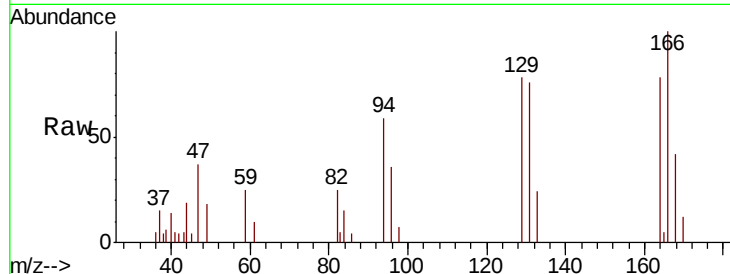
#64
Tetrachloroethene
Concen: 2.047 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

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

Tot Ion	Ratio	Lower	Upper
164	100		
166	128.8	103.8	155.6
129	99.8	80.7	121.1
131	97.8	78.5	117.7

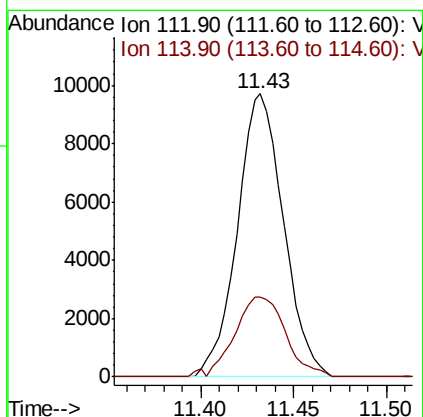
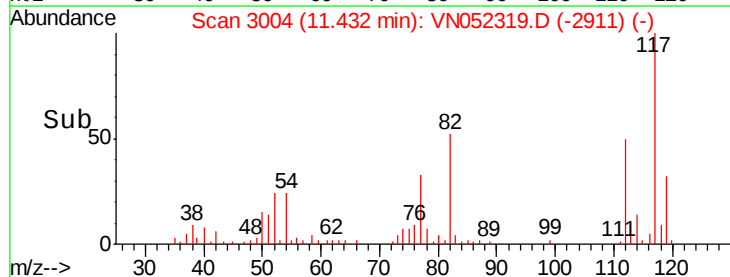
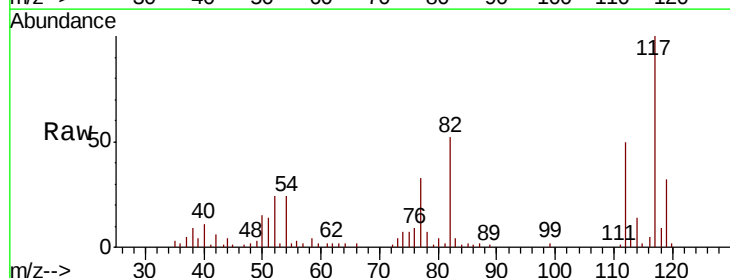
Manual Integrations
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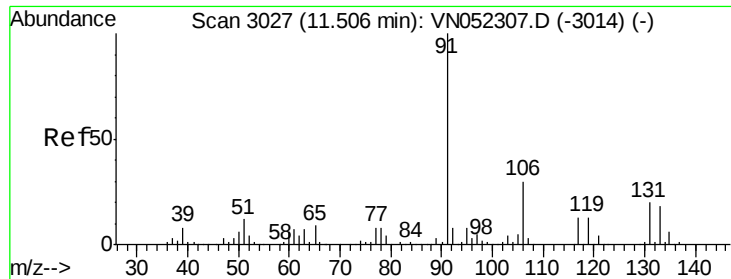
MMDadoda
11/20/2018 2:53:39 PM



#65
Chlorobenzene
Concen: 2.104 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion	Ratio	Lower	Upper
112	100		
114	28.2	25.9	38.9





#66

1,1,1,2-Tetrachloroethane

Concen: 1.959 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

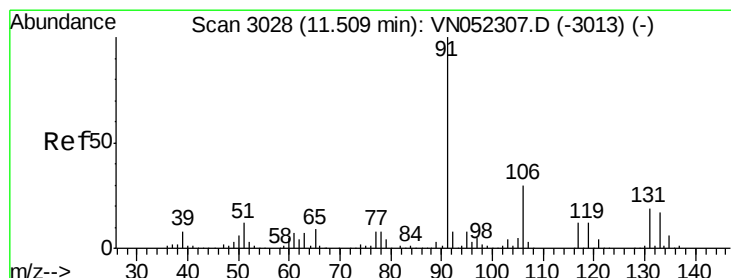
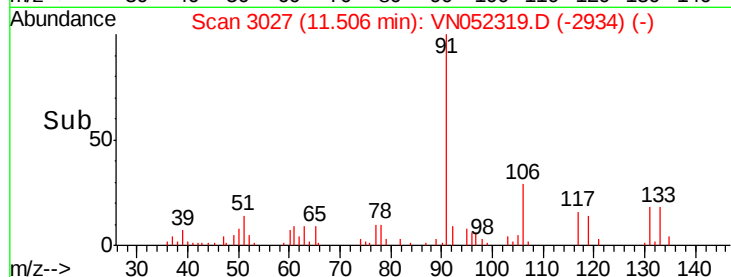
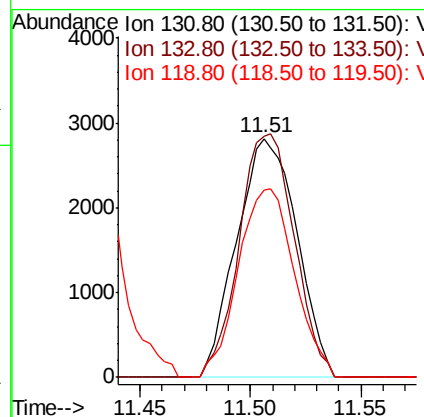
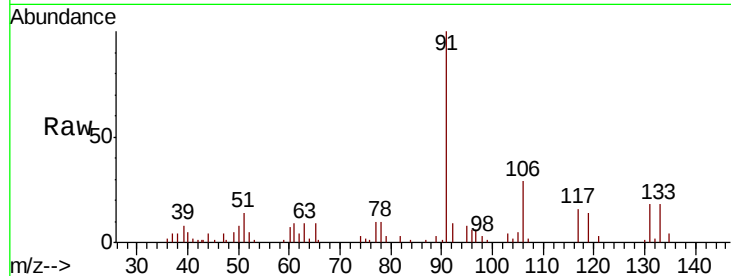
ClientSampleId :

LOQ-WATER-02-QT4-2018

Tot Ion	Ratio	Lower	Upper
131	100		
133	93.5	47.4	142.3
119	74.0	33.3	99.9

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#67

Ethyl Benzene

Concen: 2.001 ug/l

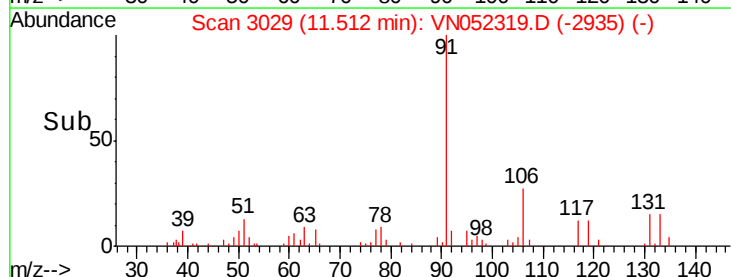
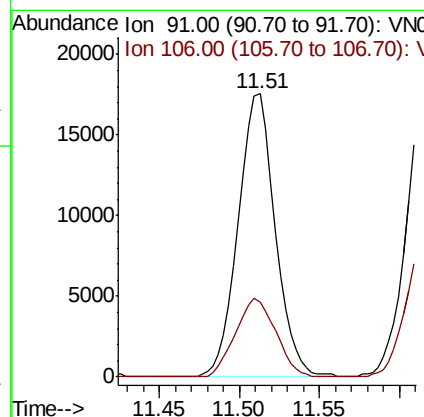
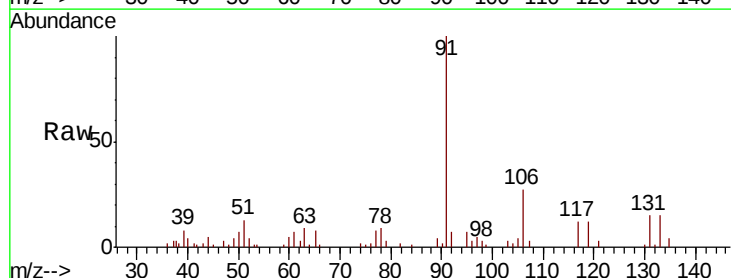
RT: 11.51 min Scan# 3029

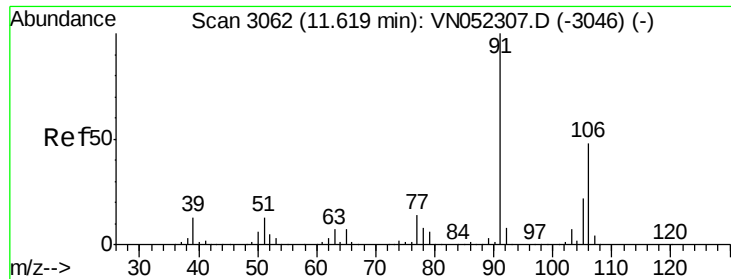
Delta R.T. 0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Tgt Ion	Ratio	Lower	Upper
91	100		
106	26.5	24.2	36.2





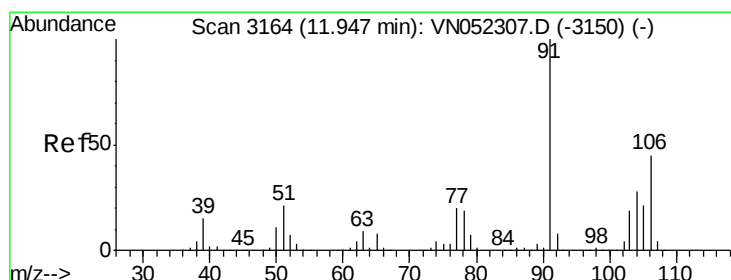
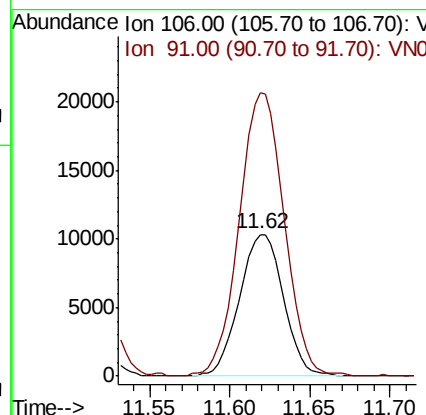
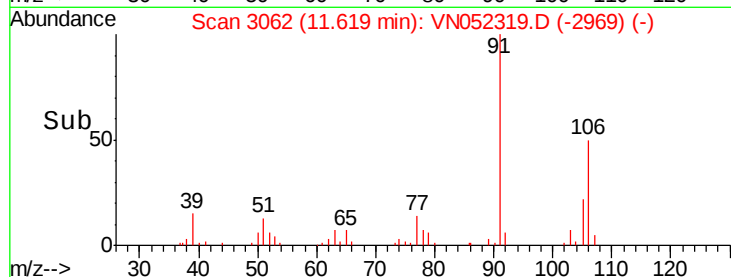
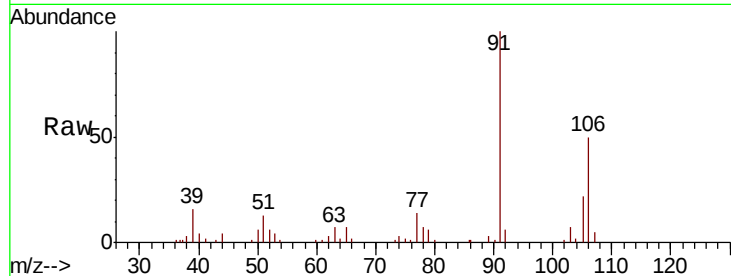
#68
m/p-Xylenes
Concen: 3.834 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

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

Tot Ion:106 Resp: 19358
Ion Ratio Lower Upper
106 100
91 204.8 165.5 248.3

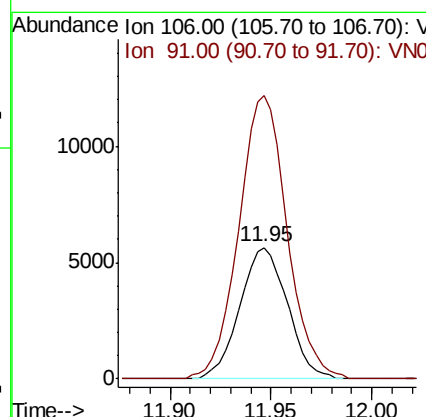
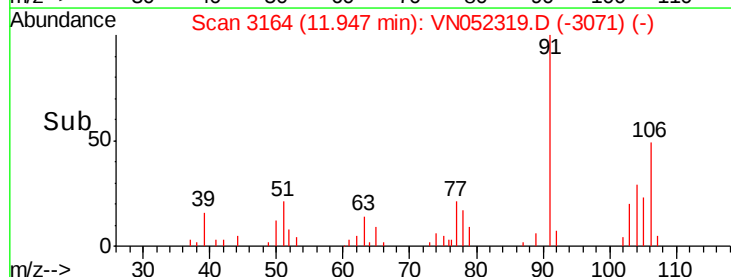
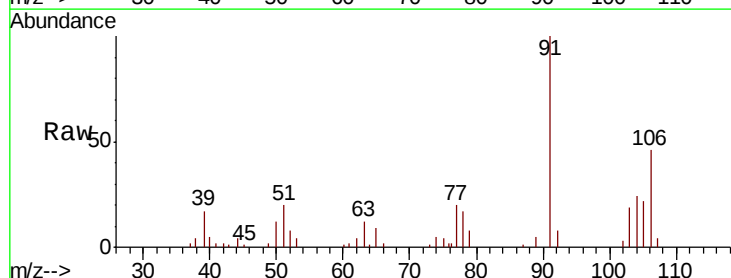
Manual Integrations
APPROVED

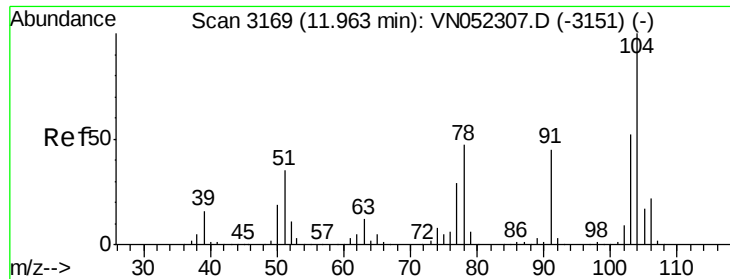
MMDadoda
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#69
o-Xylene
Concen: 1.925 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion:106 Resp: 9315
Ion Ratio Lower Upper
106 100
91 218.6 110.0 330.0





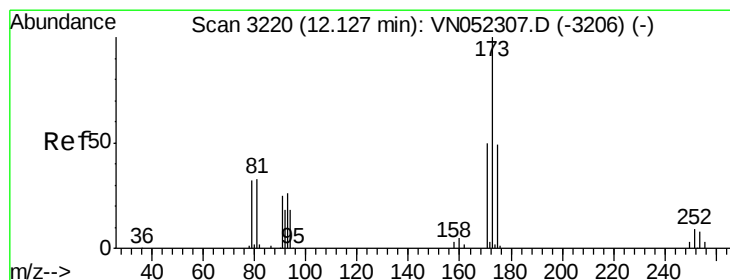
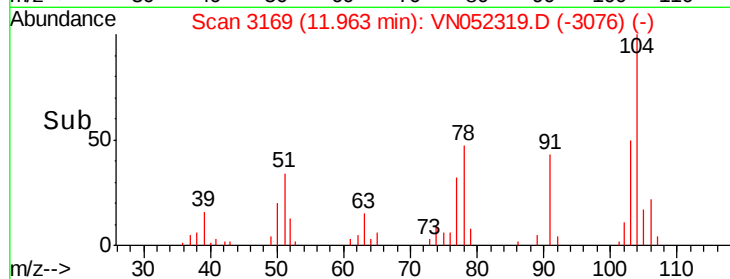
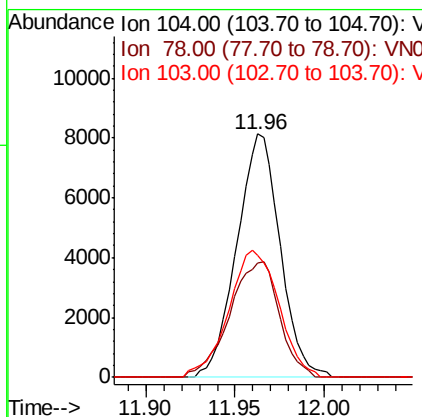
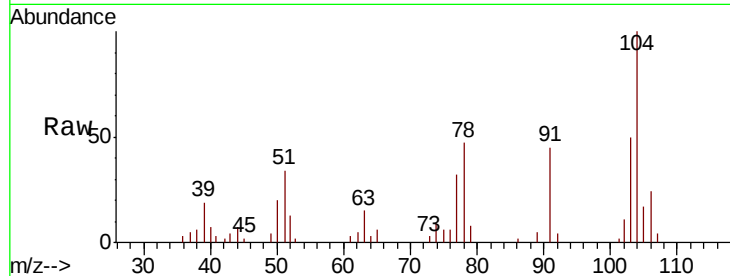
#70
Stvrene
Concen: 1.780 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

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

Tot Ion	Ratio	Lower	Upper
104	100		
78	54.4	42.7	64.1
103	60.4	45.4	68.0

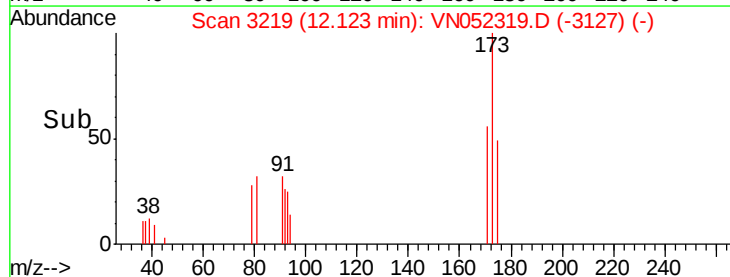
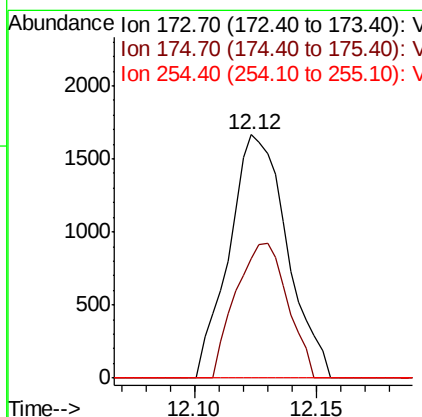
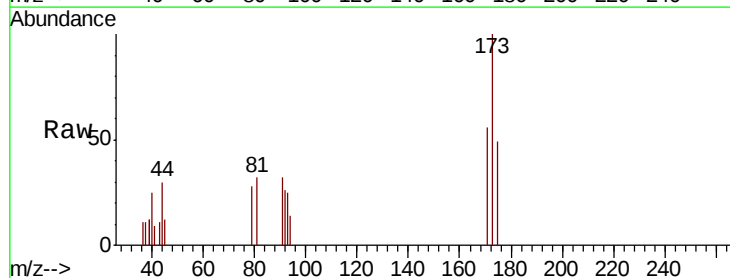
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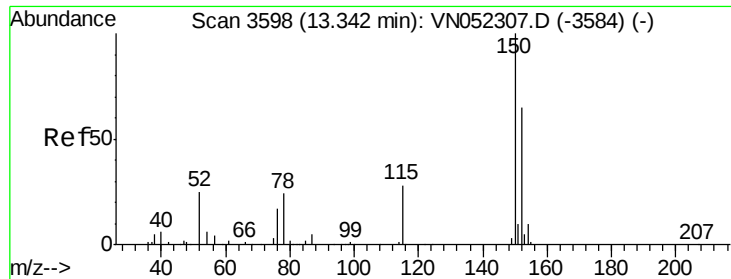
MMDadoda
11/20/2018 2:53:39 PM



#71
Bromoform
Concen: 1.708 ug/l
RT: 12.12 min Scan# 3219
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion	Ratio	Lower	Upper
173	100		
175	49.6	25.0	75.0
254	0.0	0.0	0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

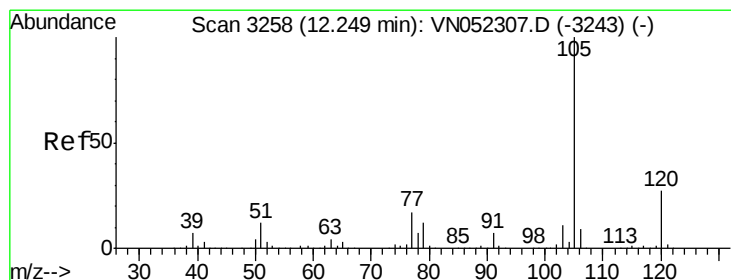
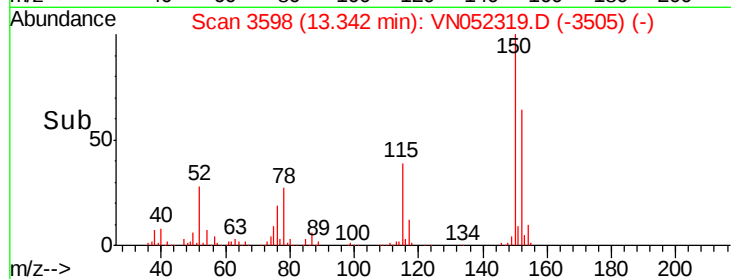
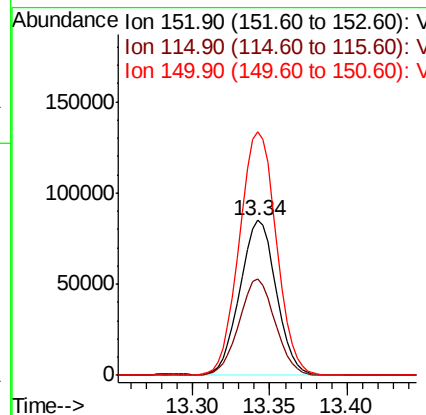
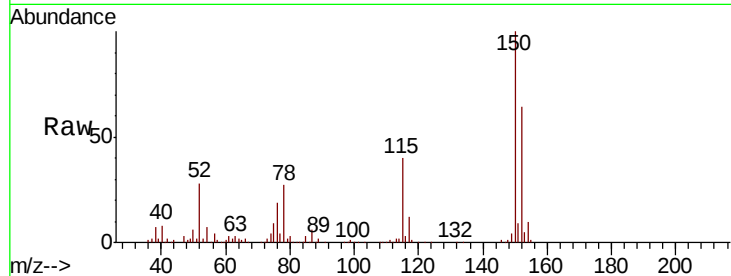
ClientSampleId :

LOQ-WATER-02-QT4-2018

Tot Ion	Ratio	Resp	Lower	Upper
152	100	138510		
115	62.0	30.3	91.0	
150	160.7	0.0	348.2	

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#73

Isopropylbenzene

Concen: 2.180 ug/l

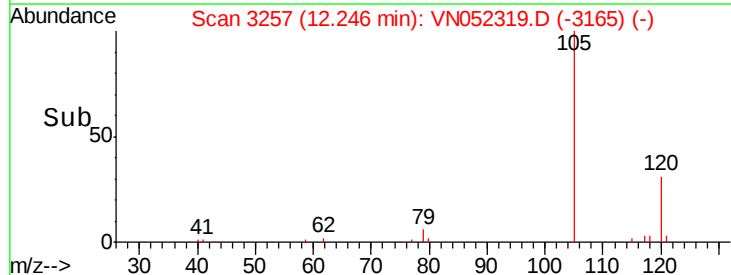
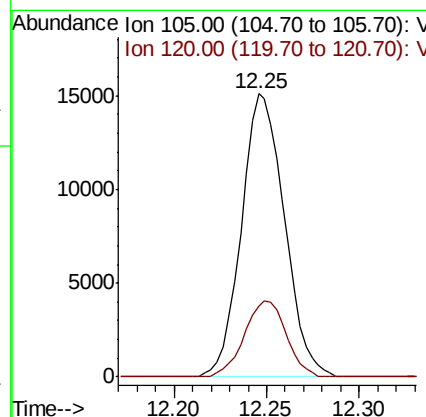
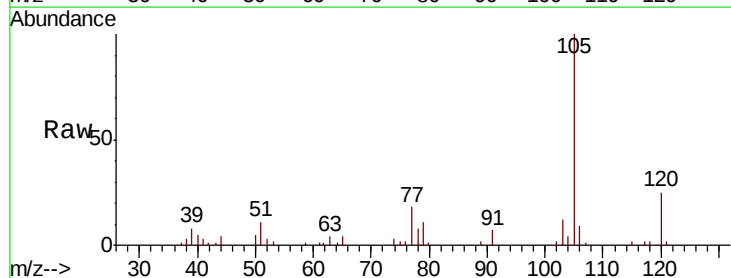
RT: 12.25 min Scan# 3257

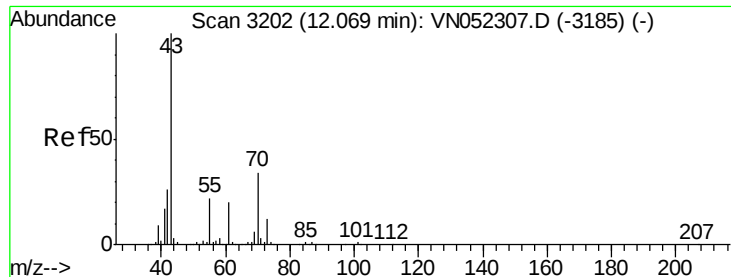
Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	24280		
120	26.1	13.4	40.1	





#74

N-amvl acetate

Concen: 2.308 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

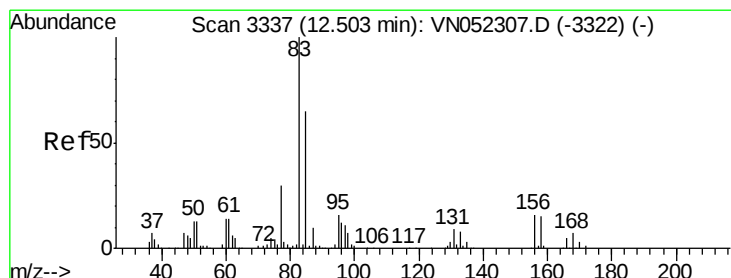
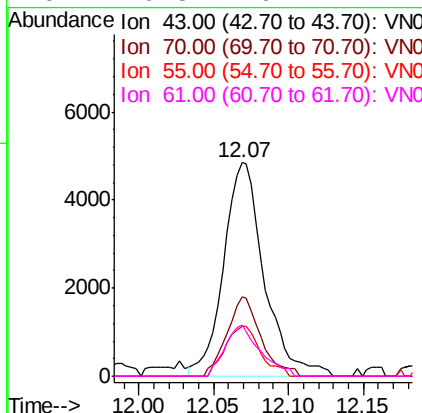
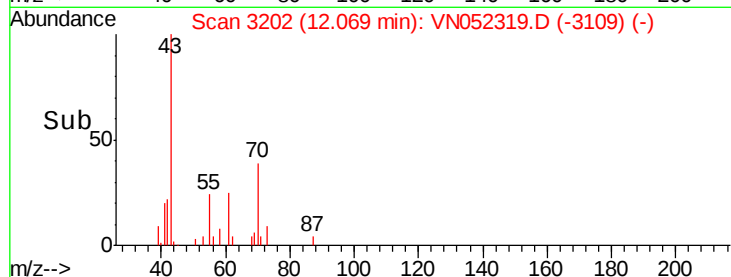
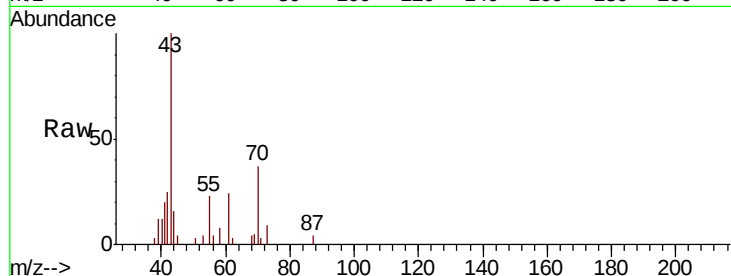
ClientSampleId :

LOQ-WATER-02-QT4-2018

Tot Ion:	43	Resp:	9156
Ion	Ratio	Lower	Upper
43	100		
70	31.0	27.1	40.7
55	20.2	17.4	26.0
61	20.8	16.1	24.1

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#75

1,1,2,2-Tetrachloroethane

Concen: 2.485 ug/l

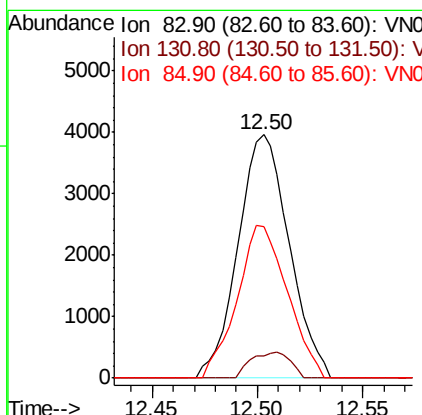
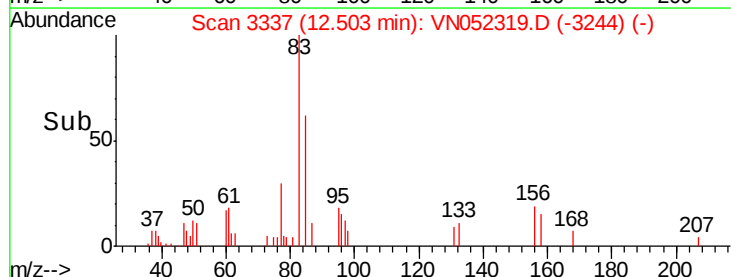
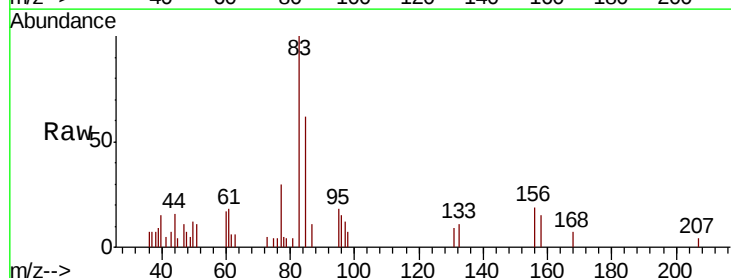
RT: 12.50 min Scan# 3337

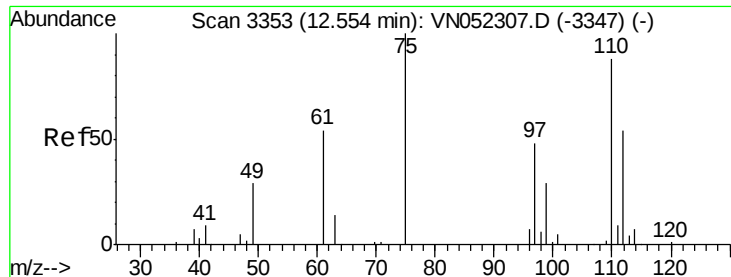
Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Tgt Ion:	83	Resp:	6690
Ion	Ratio	Lower	Upper
83	100		
131	8.3	4.7	14.1
85	61.4	32.4	97.2





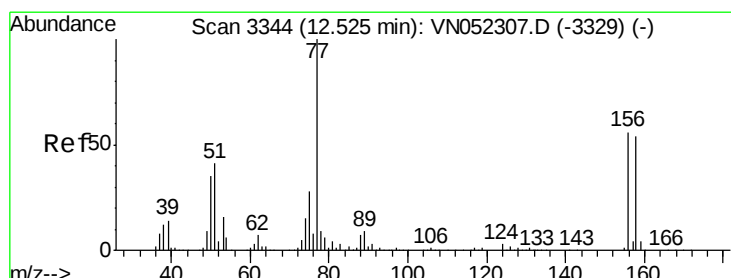
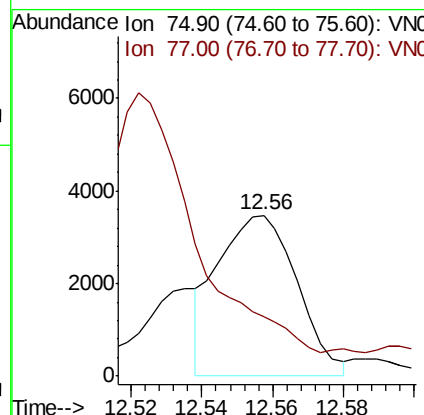
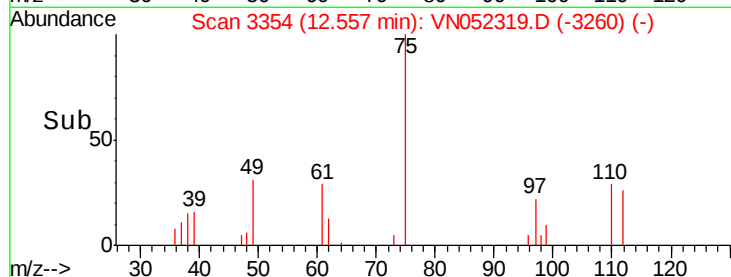
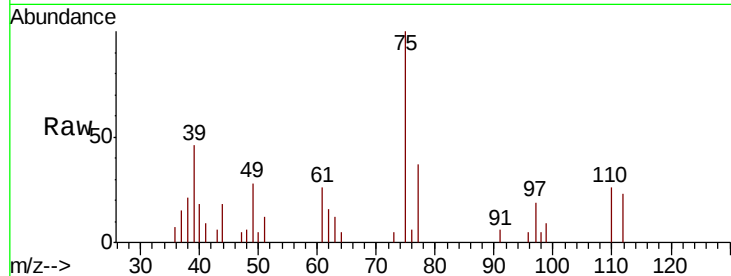
#76
 1,2,3-Trichloropropane
 Concen: 2.302 ug/l m
 RT: 12.56 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

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

Tot Ion: 75 Resp: 5410
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0

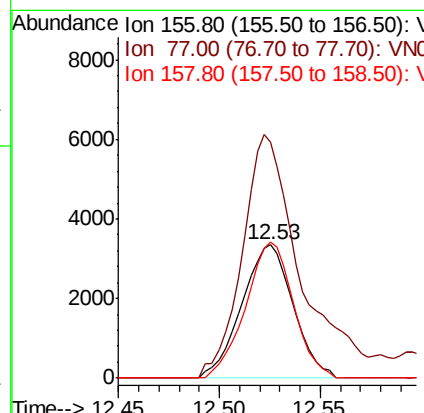
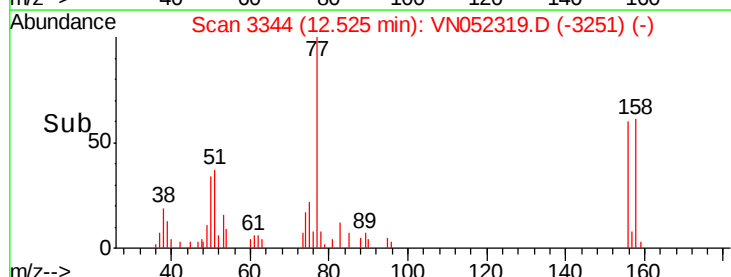
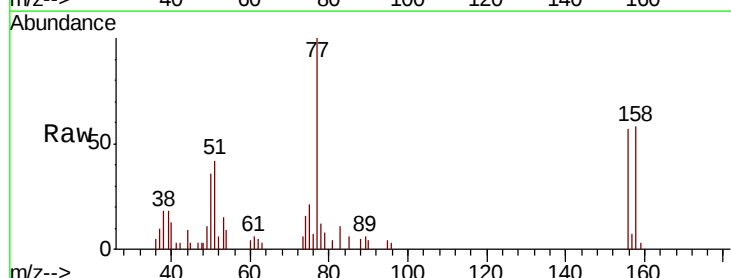
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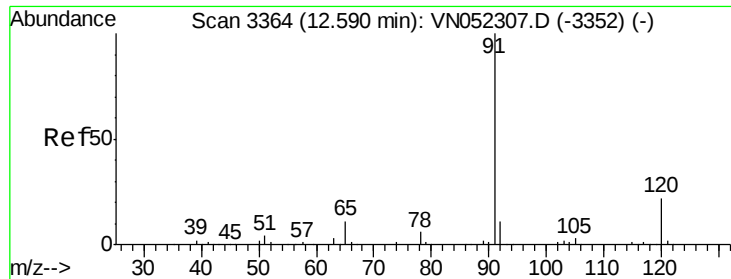
MMDadoda
 11/20/2018 2:53:39 PM



#77
 Bromobenzene
 Concen: 2.284 ug/l
 RT: 12.53 min Scan# 3344
 Delta R.T. -0.00 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

Tgt Ion: 156 Resp: 5919
 Ion Ratio Lower Upper
 156 100
 77 209.3 103.6 310.9
 158 95.6 48.1 144.4





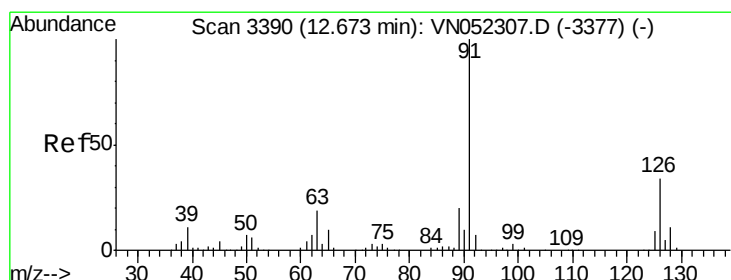
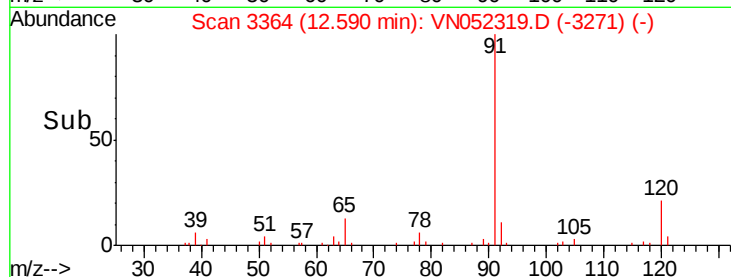
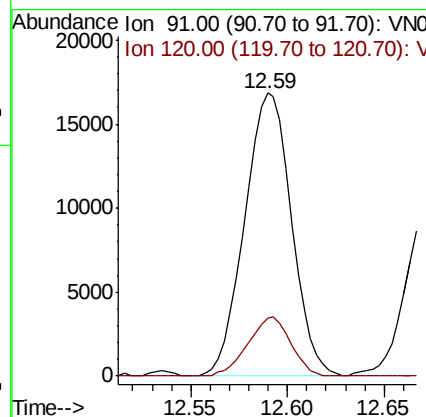
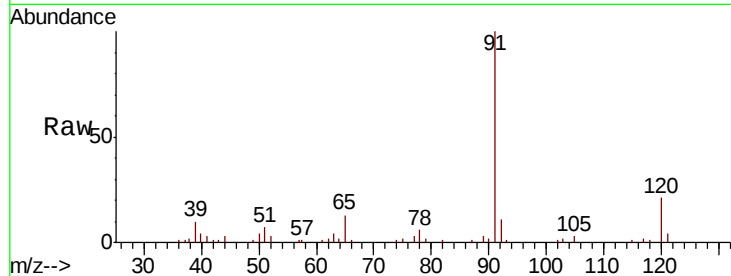
#78
n-propylbenzene
Concen: 2.180 ug/l
RT: 12.59 min Scan# 3364
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

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

Tot Ion: 91 Resp: 28387
Ion Ratio Lower Upper
91 100
120 19.1 11.1 33.1

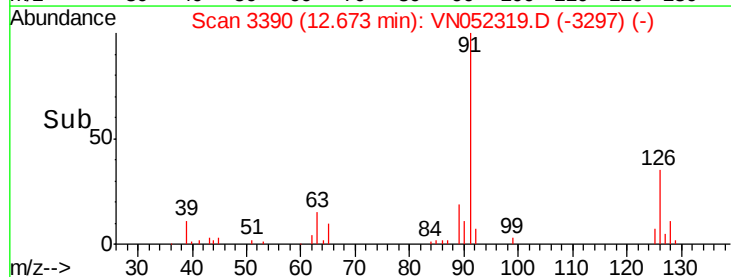
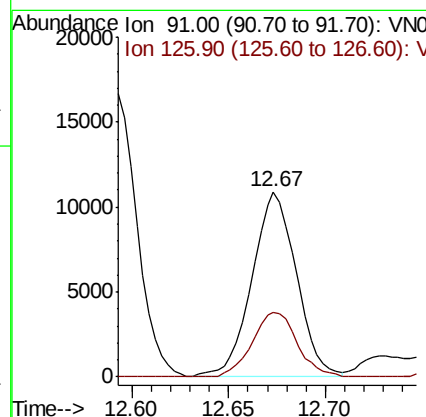
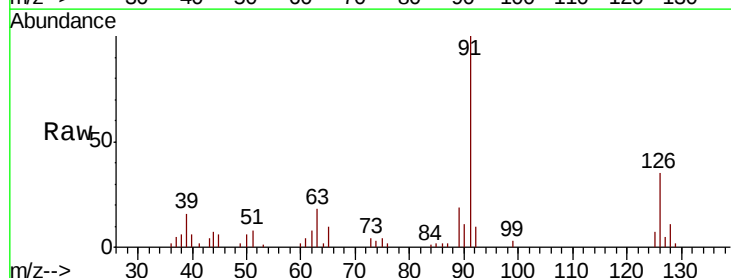
Manual Integrations
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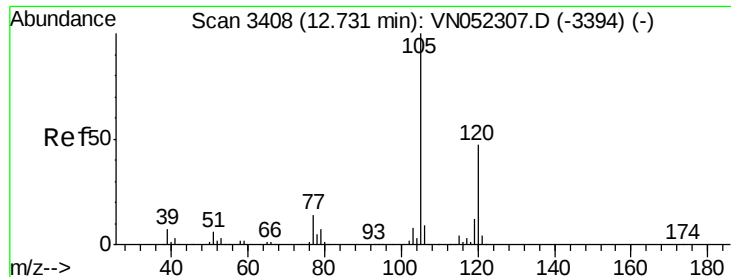
MMDadoda
11/20/2018 2:53:39 PM



#79
2-Chlorotoluene
Concen: 2.292 ug/l
RT: 12.67 min Scan# 3390
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion: 91 Resp: 17438
Ion Ratio Lower Upper
91 100
126 35.3 17.0 51.0





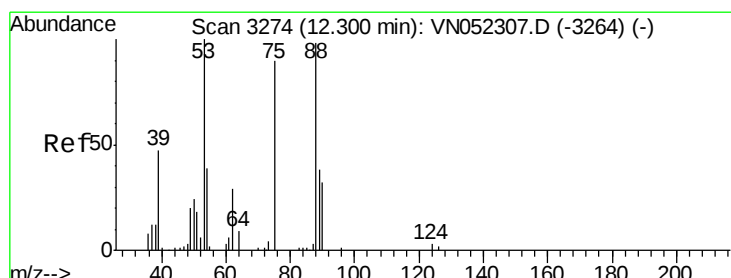
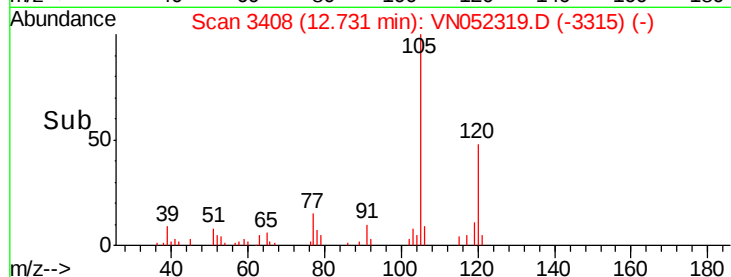
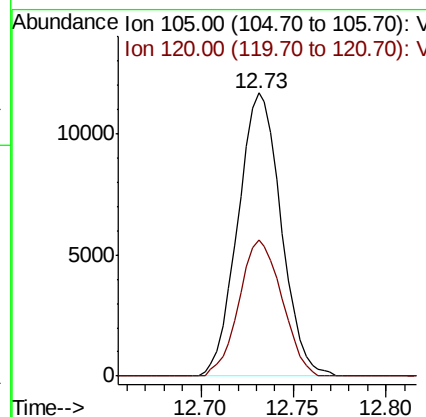
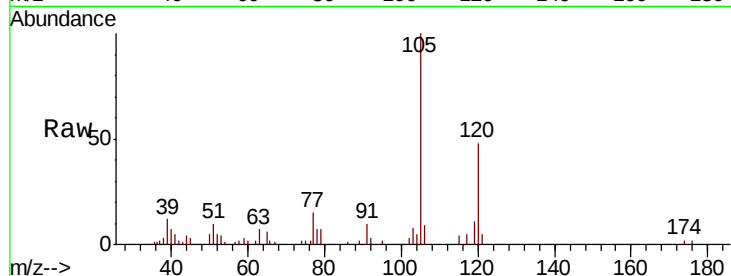
#80
 1,3,5-Trimethylbenzene
 Concen: 2.129 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. -0.00 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

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

Tot Ion:105 Resp: 18855
 Ion Ratio Lower Upper
 105 100
 120 47.7 23.7 71.1

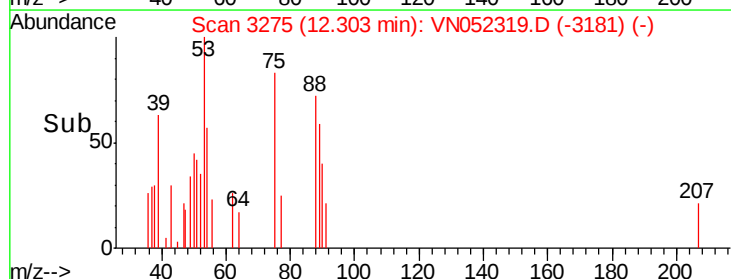
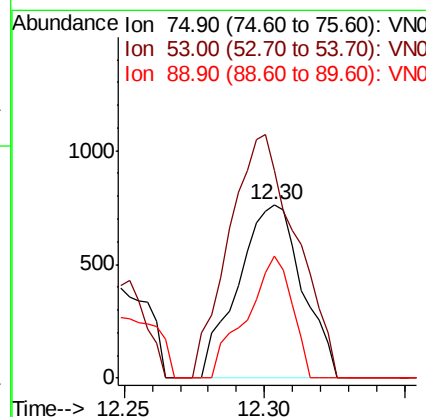
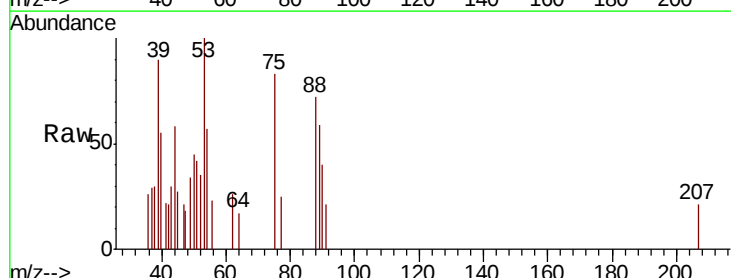
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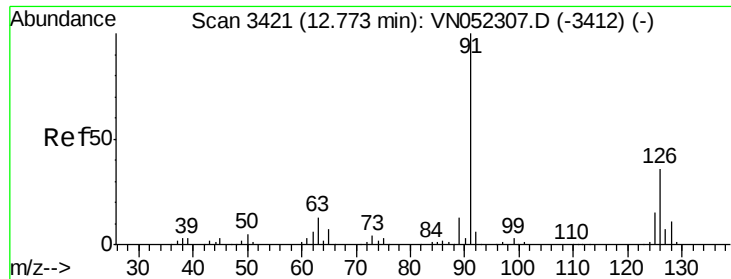
MMDadoda
 11/20/2018 2:53:39 PM



#81
 trans-1,4-Dichloro-2-butene
 Concen: 1.679 ug/l m
 RT: 12.30 min Scan# 3275
 Delta R.T. 0.00 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

Tgt Ion: 75 Resp: 1217
 Ion Ratio Lower Upper
 75 100
 53 0.0 90.2 135.2#
 89 0.0 35.4 53.0#





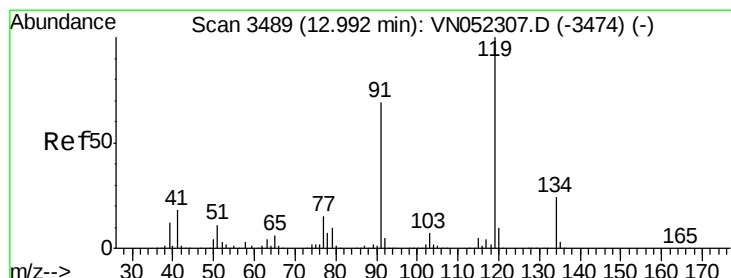
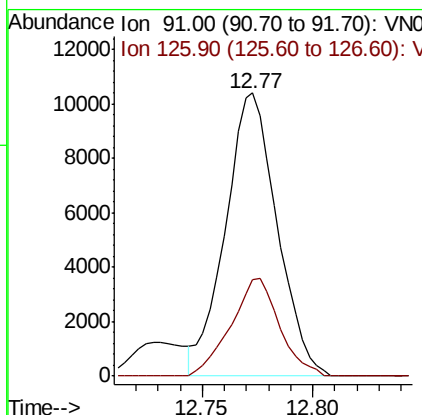
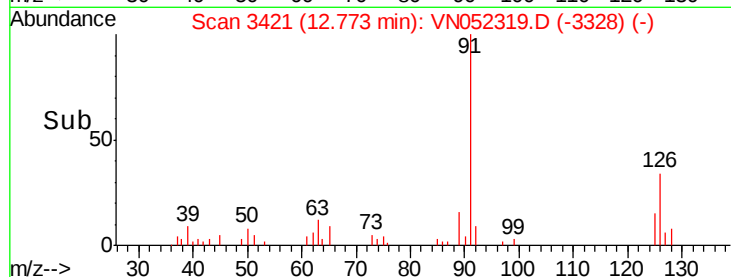
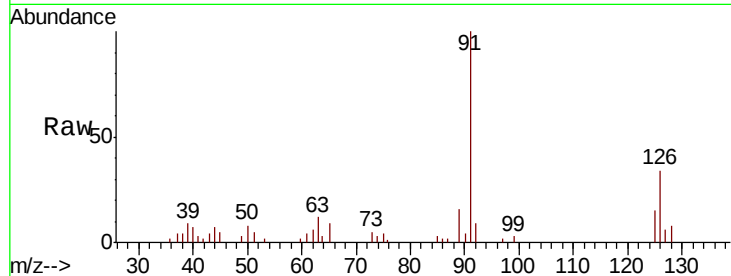
#82
4-Chlorotoluene
Concen: 2.163 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

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

Tot Ion	Ratio	Lower	Upper
91	100		
126	32.5	17.0	50.9

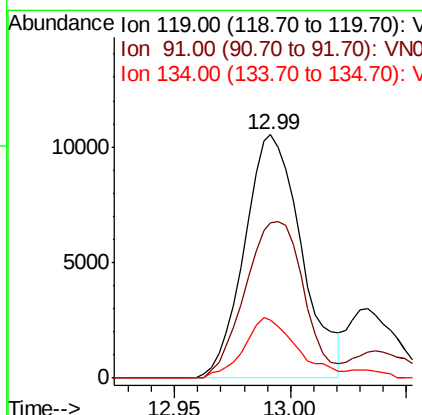
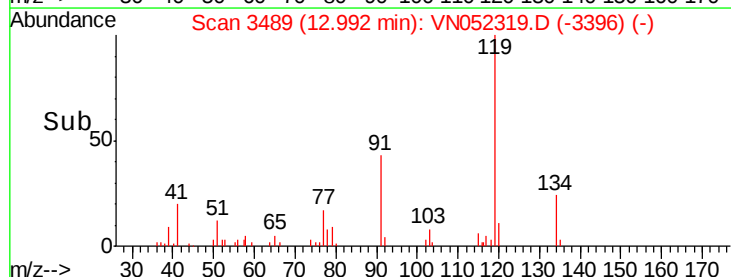
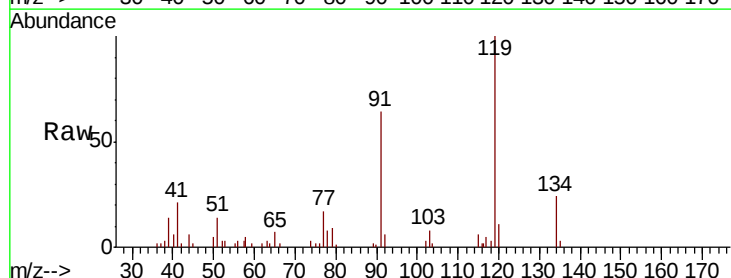
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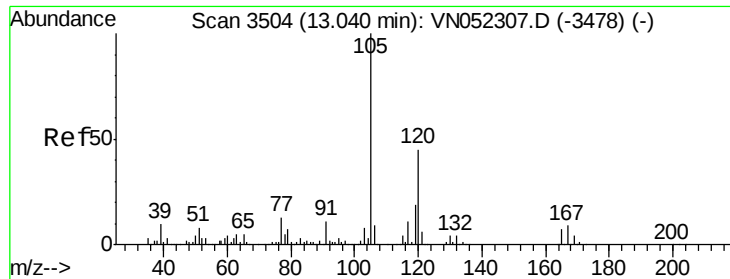
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#83
tert-Butylbenzene
Concen: 2.304 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion	Ratio	Lower	Upper
119	100		
91	65.9	33.8	101.3
134	23.2	11.9	35.9





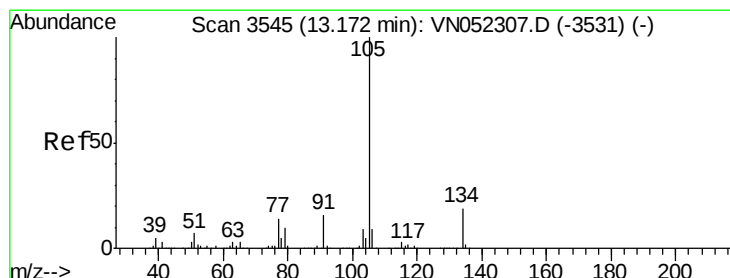
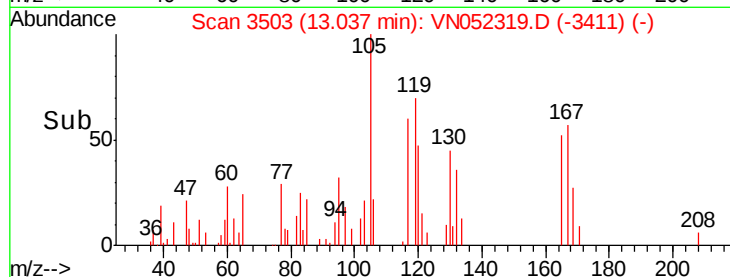
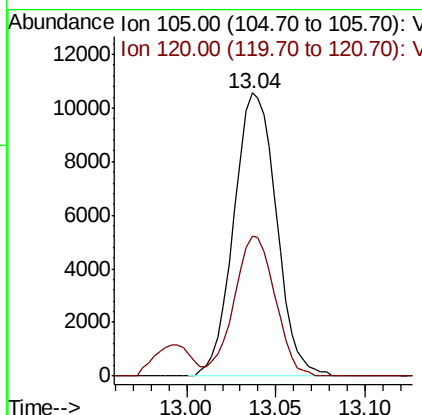
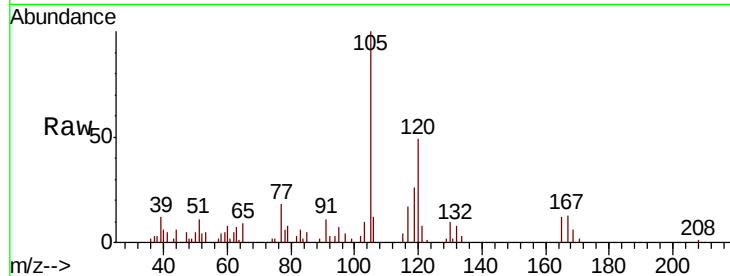
#84
 1,2,4-Trimethylbenzene
 Concen: 1.987 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. -0.00 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

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

Tot Ion:105 Resp: 17666
 Ion Ratio Lower Upper
 105 100
 120 47.2 22.5 67.5

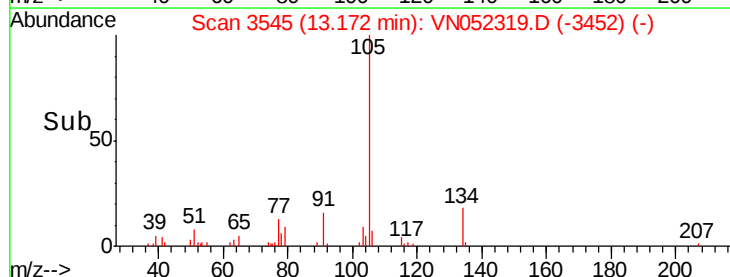
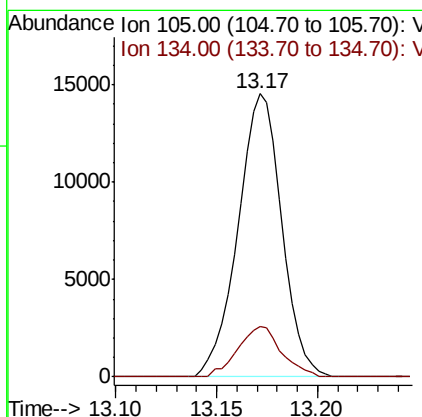
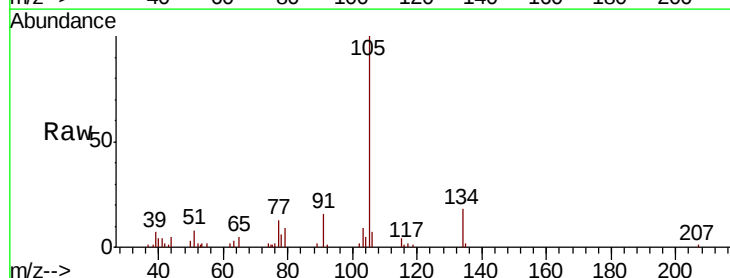
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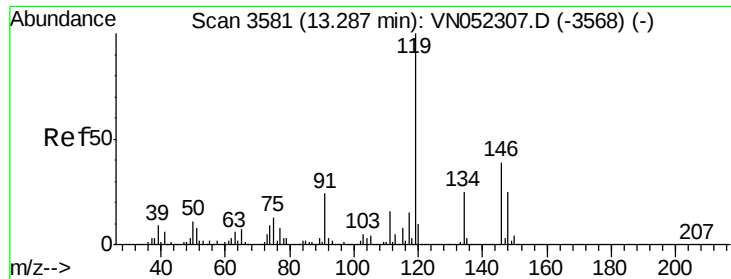
MMDadoda
 11/20/2018 2:53:39 PM



#85
 sec-Butylbenzene
 Concen: 2.070 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

Tgt Ion:105 Resp: 22047
 Ion Ratio Lower Upper
 105 100
 134 17.8 9.5 28.5





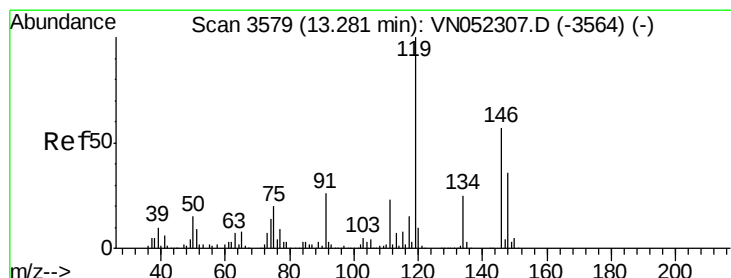
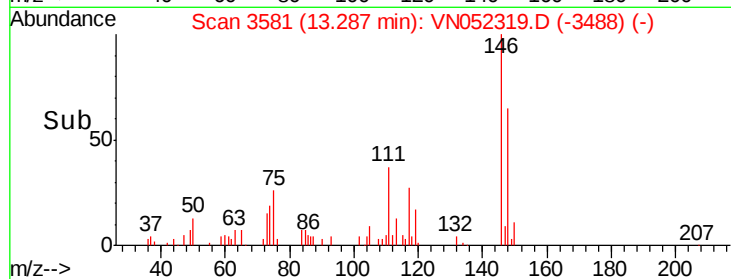
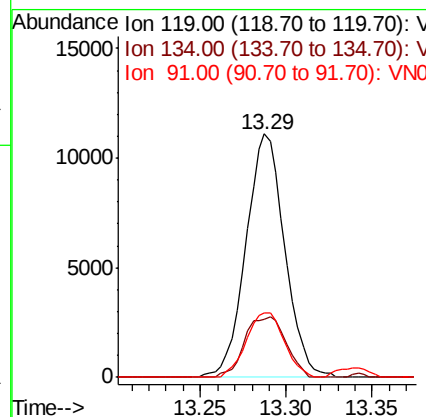
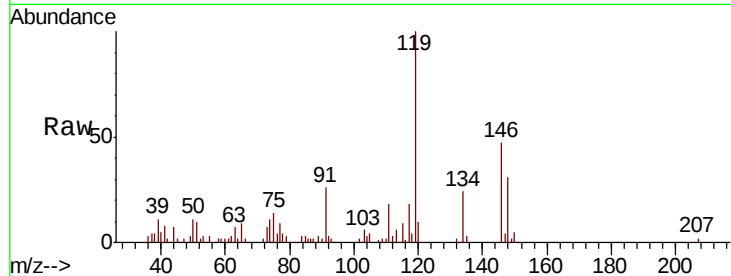
#86
 p-Isopropyltoluene
 Concen: 1.926 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

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

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.4	13.0	38.9
91	26.1	12.4	37.0

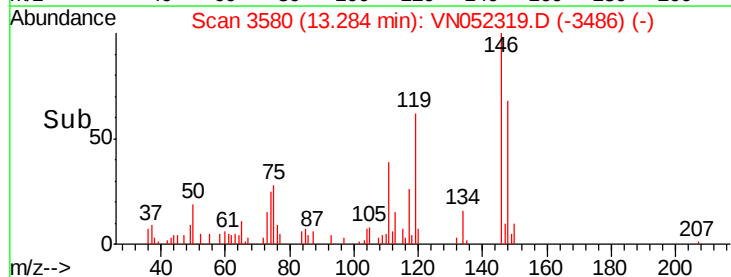
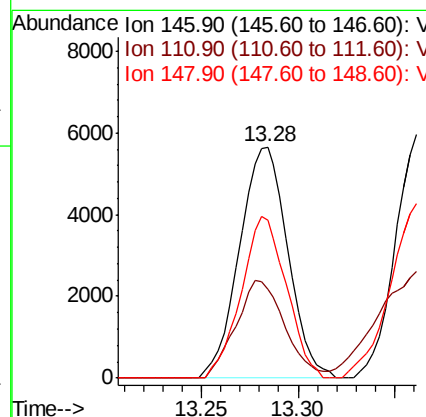
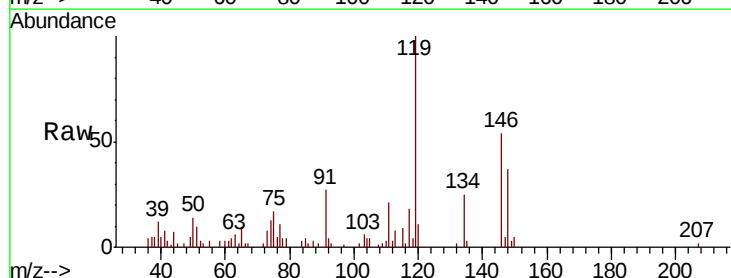
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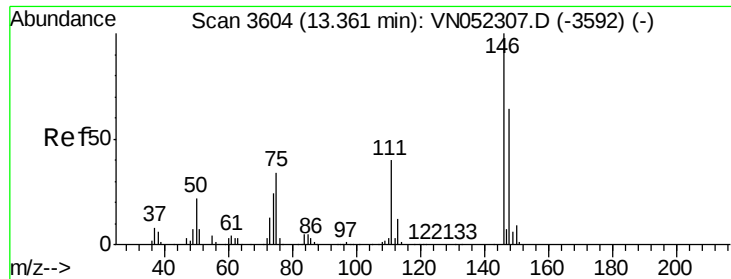
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#87
 1,3-Dichlorobenzene
 Concen: 2.135 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.0	20.3	61.0
148	65.3	31.8	95.4





#88

1,4-Dichlorobenzene

Concen: 2.105 ug/l

RT: 13.36 min Scan# 3604

Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

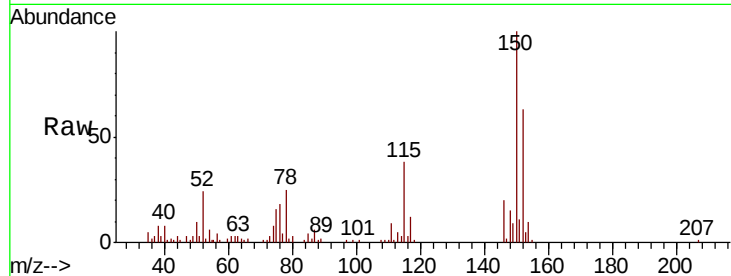
ClientSampleId :

LOQ-WATER-02-QT4-2018

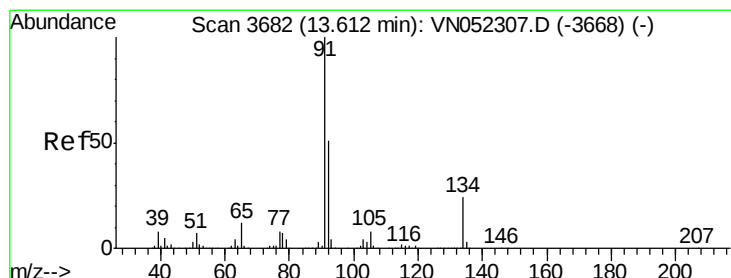
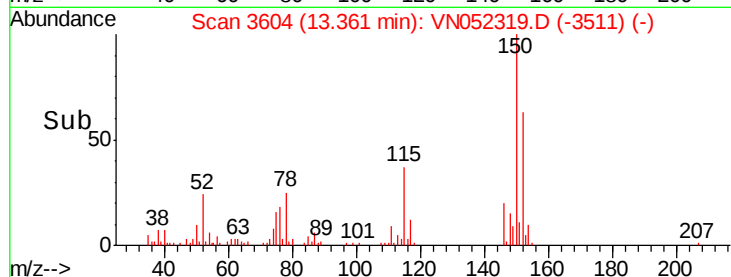
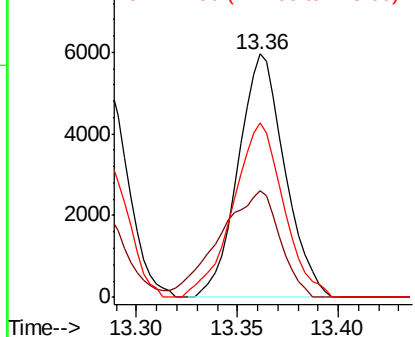
Tot Ion:	146	Resp:	9631
Ion	Ratio	Lower	Upper
146	100		
111	56.4	20.6	61.8
148	77.7	32.4	97.2

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Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#89

n-Butylbenzene

Concen: 1.745 ug/l

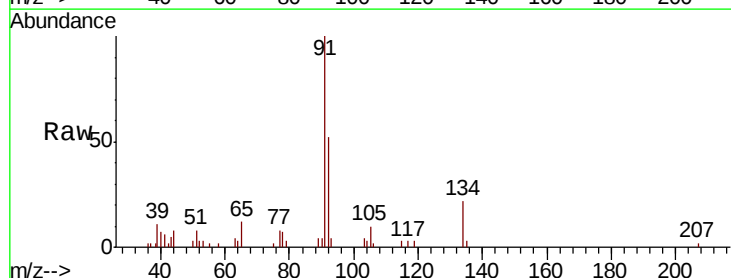
RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

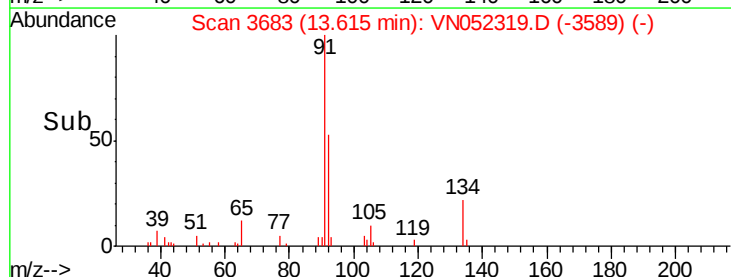
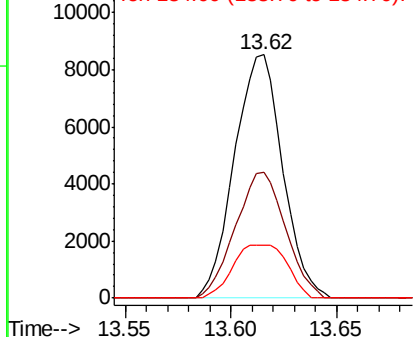
Lab File: VN052319.D

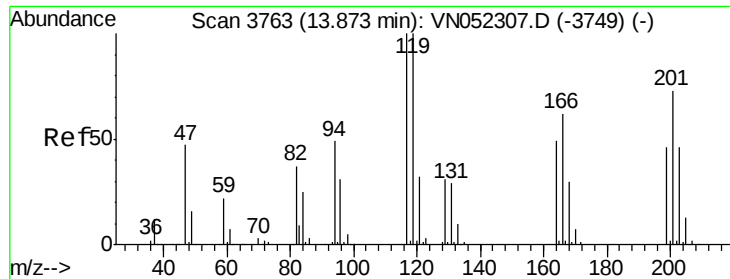
Acq: 14 Nov 2018 18:02

Tgt Ion:	91	Resp:	13518
Ion	Ratio	Lower	Upper
91	100		
92	53.8	25.4	76.2
134	24.6	12.2	36.4



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 92.00 (91.70 to 92.70): V
Ion 134.00 (133.70 to 134.70): V





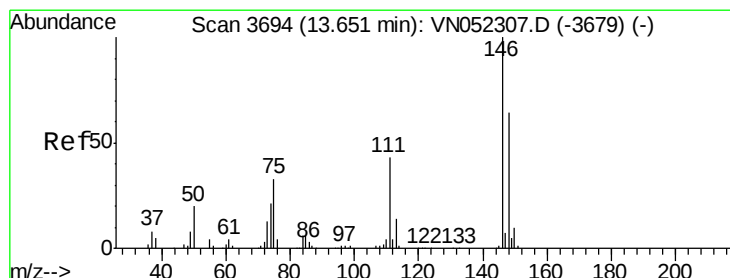
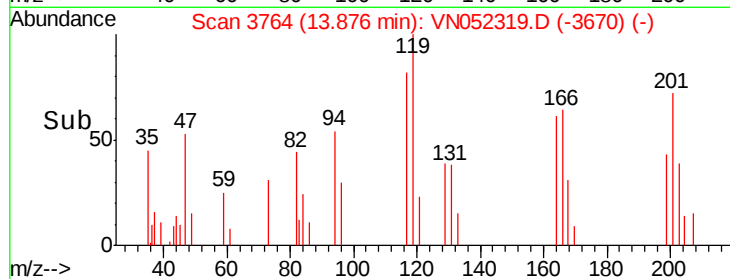
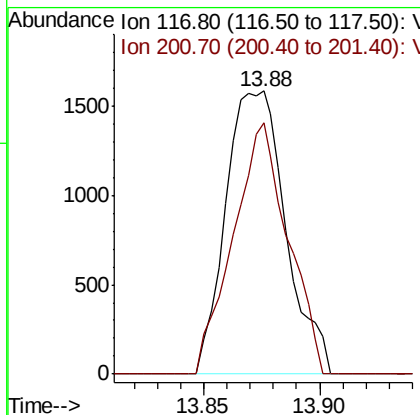
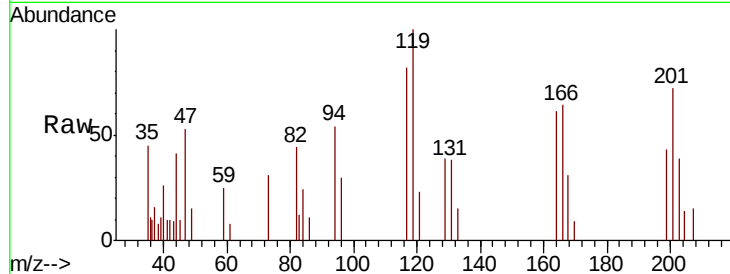
#90
Hexachloroethane
Concen: 1.780 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

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

Tot Ion:117 Resp: 2845
Ion Ratio Lower Upper
117 100
201 80.9 35.3 105.9

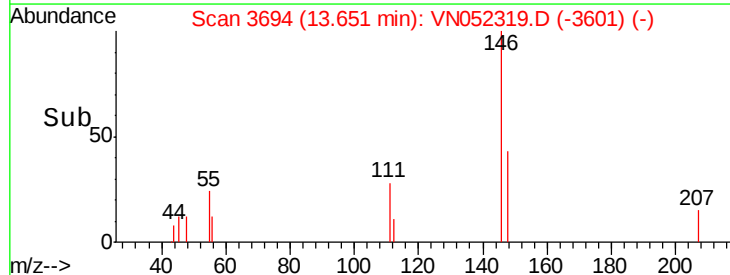
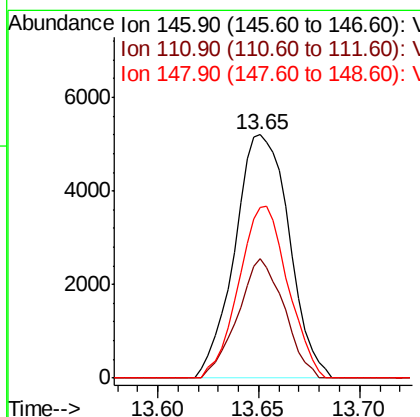
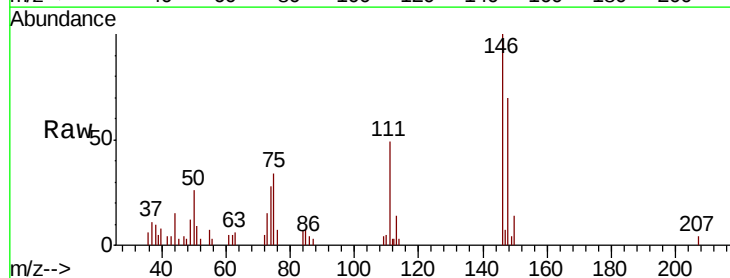
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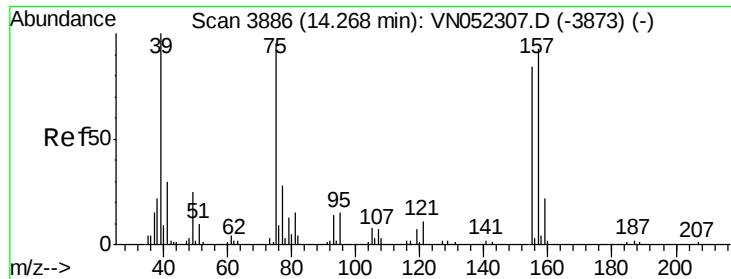
MMDadoda
11/20/2018 2:53:39 PM



#91
1,2-Dichlorobenzene
Concen: 2.197 ug/l
RT: 13.65 min Scan# 3694
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion:146 Resp: 9793
Ion Ratio Lower Upper
146 100
111 41.9 21.3 63.9
148 63.7 31.6 94.8





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.567 ug/l

RT: 14.27 min Scan# 3888

Delta R.T. 0.01 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Instrument :

MSVOA_N

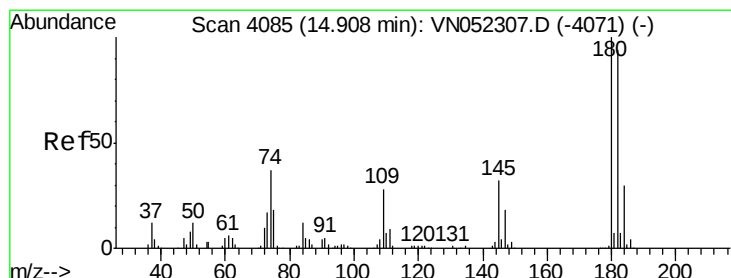
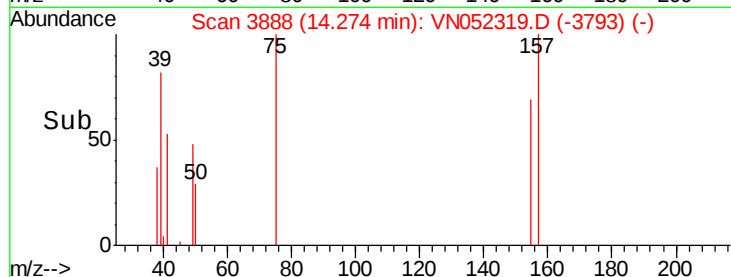
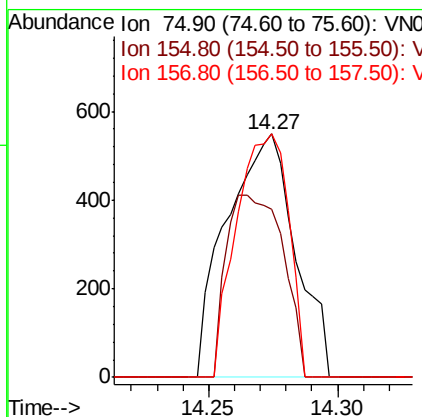
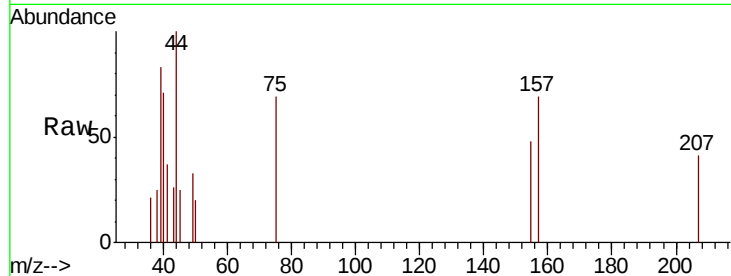
ClientSampleId :

LOQ-WATER-02-QT4-2018

Tot Ion:	75	Resp:	1019
Ion	Ratio	Lower	Upper
75	100		
155	61.9	42.4	127.3
157	76.0	49.6	149.0

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#93

1,2,4-Trichlorobenzene

Concen: 3.538 ug/l

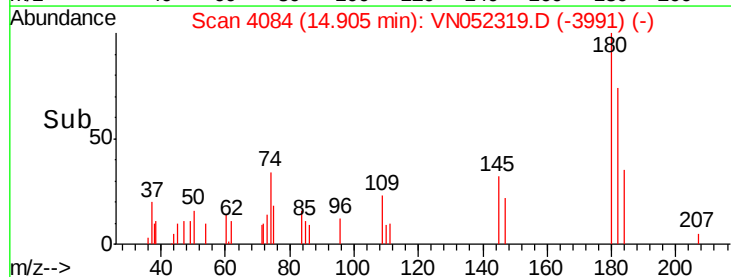
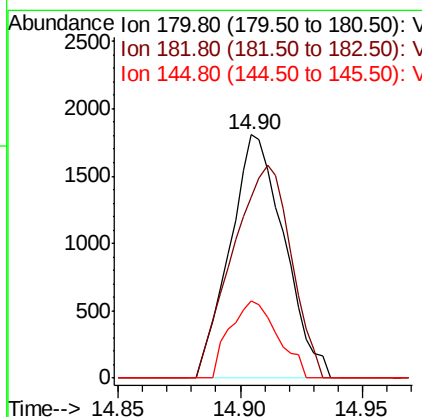
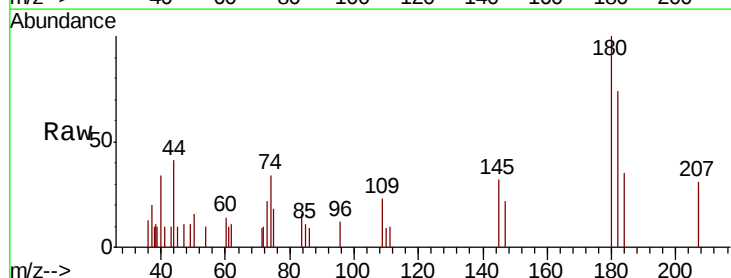
RT: 14.90 min Scan# 4084

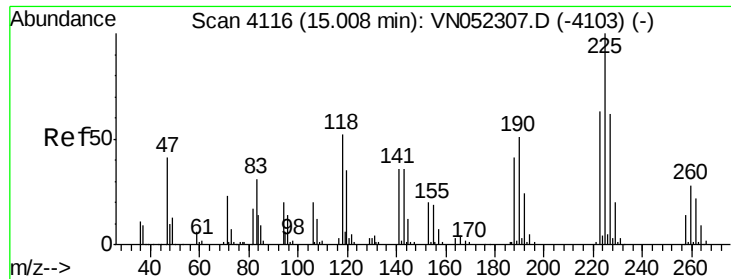
Delta R.T. -0.00 min

Lab File: VN052319.D

Acq: 14 Nov 2018 18:02

Tgt Ion:	180	Resp:	2782
Ion	Ratio	Lower	Upper
180	100		
182	94.6	47.6	142.9
145	28.1	15.5	46.5





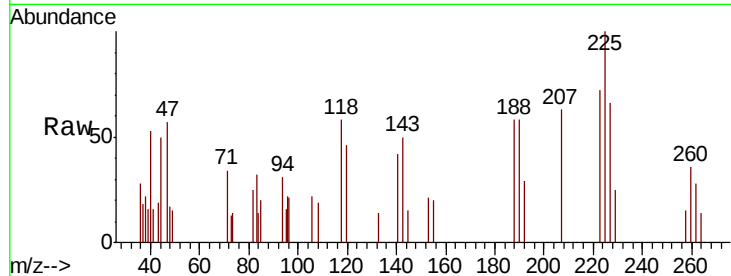
#94
Hexachlorobutadiene
Concen: 2.087 ug/l
RT: 15.01 min Scan# 4116
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

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

Tot Ion	Ratio	Lower	Upper
225	100		
223	74.2	31.9	95.5
227	65.6	31.6	95.0

Manual Integrations
APPROVED

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11/20/2018 2:53:39 PM

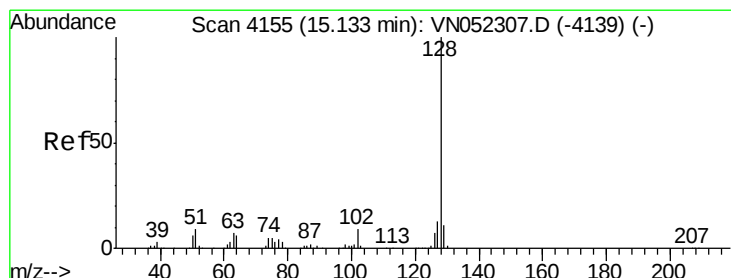
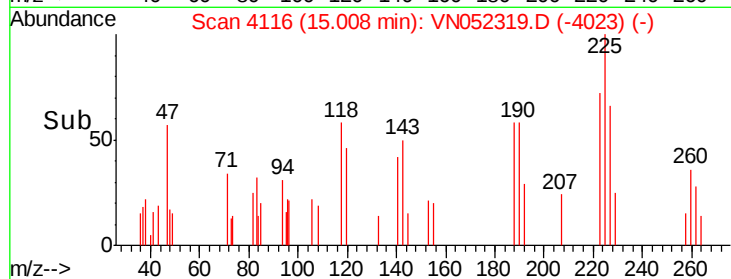
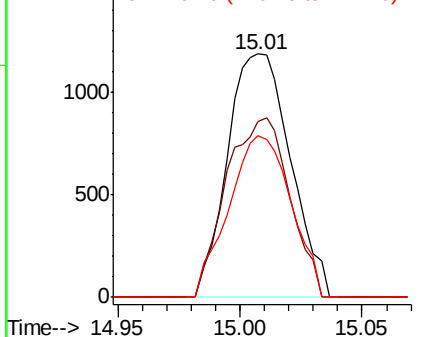


Abundance

Ion 224.70 (224.40 to 225.40): V

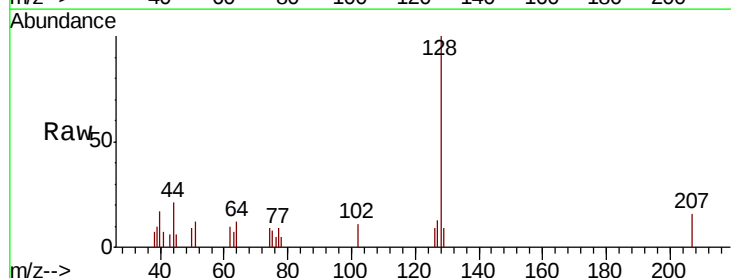
Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95
Naphthalene
Concen: 3.817 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. -0.00 min
Lab File: VN052319.D
Acq: 14 Nov 2018 18:02

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.4	15.6
129	8.0	8.6	13.0#

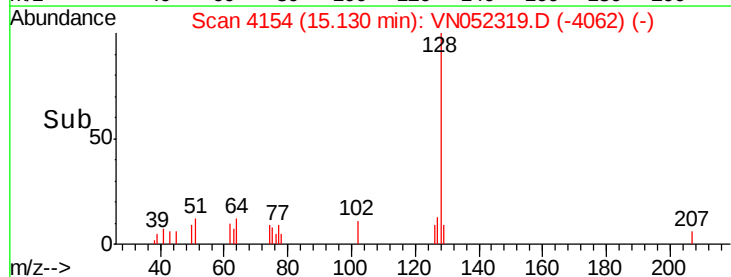
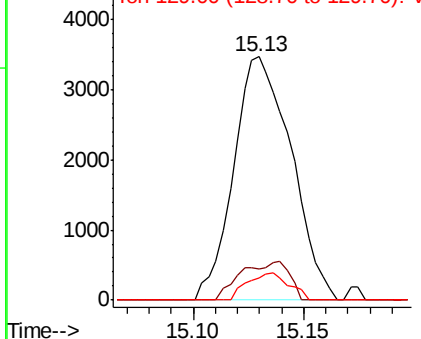


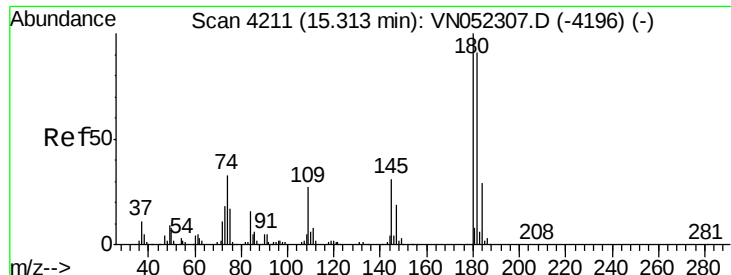
Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 1.481 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. -0.00 min
 Lab File: VN052319.D
 Acq: 14 Nov 2018 18:02

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

Tot Ion	Ratio	Lower	Upper
180	100		
182	112.7	46.5	139.3
145	28.7	16.4	49.2

Manual Integrations
 APPROVED

MMDadoda
 11/20/2018 2:53:39 PM

