

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101419\
 Data File : VN058754.D
 Acq On : 14 Oct 2019 17:17
 Operator : JC/SP
 Sample : K5111-08 1.0PPB LOQ
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Manual Integrations
 APPROVED

MMDadoda
 10/16/2019 12:57:10 AM

Quant Time: Oct 15 04:00:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	368856	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	617125	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	557292	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	233489	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	281783	54.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.14%	
35) Dibromofluoromethane	7.57	113	200509	52.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.20%	
50) Toluene-d8	10.08	98	743686	48.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.58%	
62) 4-Bromofluorobenzene	12.41	95	251908	43.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.32%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	4812	1.047	ug/l	93
3) Chloromethane	2.04	50	6512	1.192	ug/l	97
4) Vinyl Chloride	2.17	62	6721	1.235	ug/l	98
5) Bromomethane	2.54	94	4341	1.312	ug/l	84
6) Chloroethane	2.69	64	4428	1.319	ug/l	100
7) Trichlorofluoromethane	3.00	101	7758	1.191	ug/l	99
8) Diethyl Ether	3.40	74	2480m	1.031	ug/l	
9) 1,1,2-Trichlorotrifluoroet	3.73	101	3763	1.014	ug/l #	87
10) Methyl Iodide	3.93	142	4831	0.954	ug/l #	94
11) Tert butyl alcohol	4.77	59	5311m	6.351	ug/l	
12) 1,1-Dichloroethene	3.71	96	4082	1.152	ug/l	84
13) Acrolein	3.59	56	3281	4.878	ug/l	94
14) Allyl chloride	4.30	41	8146	1.140	ug/l #	89
15) Acrylonitrile	4.97	53	11651	5.524	ug/l	92
16) Acetone	3.80	43	11110	5.197	ug/l	94
17) Carbon Disulfide	4.03	76	13577	1.199	ug/l	100
18) Methyl Acetate	4.31	43	6500	1.199	ug/l #	87
19) Methyl tert-butyl Ether	5.02	73	12495	0.988	ug/l #	84
20) Methylene Chloride	4.52	84	5597m	1.253	ug/l	
21) trans-1,2-Dichloroethene	5.01	96	4326	1.092	ug/l #	74
22) Diisopropyl ether	5.93	45	13908	1.001	ug/l #	72
23) Vinyl Acetate	5.88	43	55953	4.989	ug/l	100
24) 1,1-Dichloroethane	5.82	63	9055	1.144	ug/l #	93
25) 2-Butanone	6.82	43	16975	5.494	ug/l	96
26) 2,2-Dichloropropane	6.81	77	7837	1.085	ug/l	92
27) cis-1,2-Dichloroethene	6.81	96	5743	1.243	ug/l	86
28) Bromochloromethane	7.17	49	3080m	1.118	ug/l	
29) Tetrahydrofuran	7.20	42	11114	5.566	ug/l	89
30) Chloroform	7.36	83	9840	1.237	ug/l	88
31) Cyclohexane	7.64	56	15460	2.041	ug/l #	52
32) 1,1,1-Trichloroethane	7.55	97	7491	1.104	ug/l #	45
36) 1,1-Dichloropropene	7.77	75	6442	1.032	ug/l	96
37) Ethyl Acetate	6.92	43	7355	1.166	ug/l #	92
38) Carbon Tetrachloride	7.76	117	6970	1.146	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	6759	0.934	ug/l	86
40) Benzene	8.03	78	19171	1.070	ug/l	98
41) Methacrylonitrile	7.16	41	2761	0.935	ug/l #	12
42) 1,2-Dichloroethane	8.11	62	7915	1.150	ug/l	95
43) Isopropyl Acetate	8.15	43	10296	0.958	ug/l #	91
44) Trichloroethene	8.82	130	4204	0.945	ug/l	96
45) 1,2-Dichloropropane	9.11	63	4687	0.977	ug/l #	79
46) Dibromomethane	9.20	93	3349	1.101	ug/l	94
47) Bromodichloromethane	9.40	83	5995	0.968	ug/l	98
48) Methyl methacrylate	9.19	41	5079	1.042	ug/l	98
49) 1,4-Dioxane	9.19	88	1578	20.933	ug/l #	92
51) 4-Methyl-2-Pentanone	9.98	43	29547	4.894	ug/l	99
52) Toluene	10.15	92	11136	1.016	ug/l	96
53) t-1,3-Dichloropropene	10.38	75	5808	0.818	ug/l #	41
54) cis-1,3-Dichloropropene	9.83	75	7252	0.962	ug/l	94
55) 1,1,2-Trichloroethane	10.56	97	5081	1.133	ug/l	97
56) Ethyl methacrylate	10.43	69	5615	0.857	ug/l #	82
57) 1,3-Dichloropropane	10.71	76	8220	1.075	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.69	63	12960	4.103	ug/l	98
59) 2-Hexanone	10.75	43	21666	4.644	ug/l	96
60) Dibromochloromethane	10.90	129	4549	0.983	ug/l	97
61) 1,2-Dibromoethane	11.01	107	4609	1.026	ug/l	97
64) Tetrachloroethene	10.63	164	5037	1.292	ug/l	84
65) Chlorobenzene	11.43	112	11758	1.039	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.51	131	4278	1.022	ug/l #	57
67) Ethyl Benzene	11.51	91	19896	0.986	ug/l	91
68) m/p-Xylenes	11.62	106	14346	1.895	ug/l	99
69) o-Xylene	11.95	106	6700	0.915	ug/l	94
70) Styrene	11.97	104	10236	0.853	ug/l	99
71) Bromoform	12.13	173	2862	0.933	ug/l #	100
73) Isopropylbenzene	12.25	105	18259	1.080	ug/l	97
74) N-amyl acetate	12.07	43	7475	0.984	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.51	83	6431	1.154	ug/l	92
76) 1,2,3-Trichloropropane	12.56	75	6235m	1.217	ug/l	
77) Bromobenzene	12.53	156	4414	1.073	ug/l	83
78) n-propylbenzene	12.59	91	20723	1.052	ug/l	99
79) 2-Chlorotoluene	12.68	91	13482	1.102	ug/l	97
80) 1,3,5-Trimethylbenzene	12.74	105	14114	0.978	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.31	75	2138m	1.118	ug/l	
82) 4-Chlorotoluene	12.78	91	13237	1.055	ug/l	100
83) tert-Butylbenzene	13.00	119	12722	1.029	ug/l	97
84) 1,2,4-Trimethylbenzene	13.05	105	13776	0.961	ug/l	100
85) sec-Butylbenzene	13.18	105	16093	0.988	ug/l	98
86) p-Isopropyltoluene	13.29	119	13123	0.886	ug/l	95
87) 1,3-Dichlorobenzene	13.29	146	8158	1.076	ug/l	94
88) 1,4-Dichlorobenzene	13.37	146	7906m	1.025	ug/l	
89) n-Butylbenzene	13.62	91	12075	0.882	ug/l	98
90) Hexachloroethane	13.88	117	2948	1.112	ug/l	89
91) 1,2-Dichlorobenzene	13.66	146	7929	1.073	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.28	75	1864	1.432	ug/l #	57

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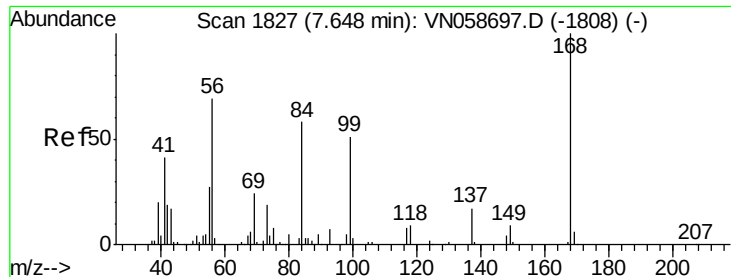
Manual Integrations
APPROVED

MMDadoda
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.92	180	3628	0.804	ug/l	95
94) Hexachlorobutadiene	15.01	225	2423	1.020	ug/l	97
95) Naphthalene	15.13	128	11398	0.879	ug/l	97
96) 1,2,3-Trichlorobenzene	15.30	180	3959	0.899	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:168 Resp: 368856

Ion Ratio Lower Upper

168 100

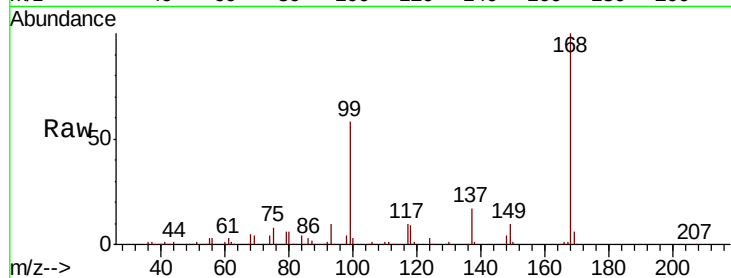
99 58.3 47.5 71.3

Manual Integrations

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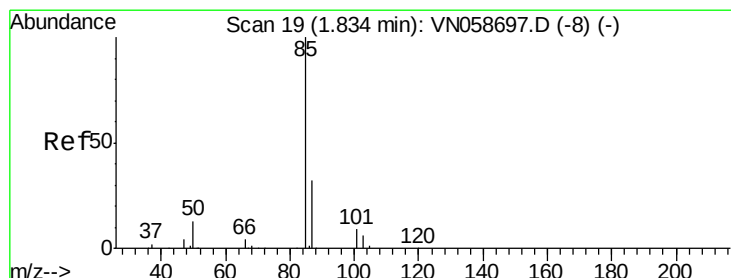
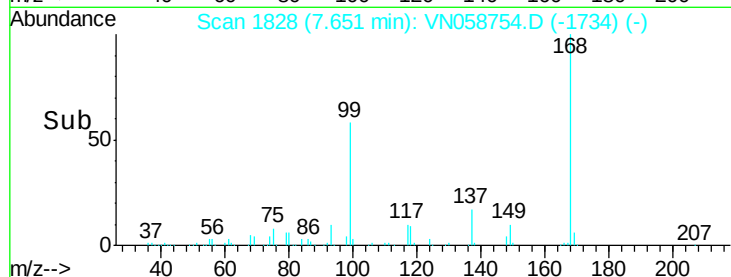
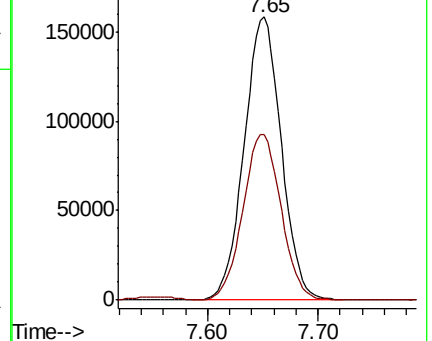
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 1.047 ug/l

RT: 1.83 min Scan# 19

Delta R.T. -0.00 min

Lab File: VN058754.D

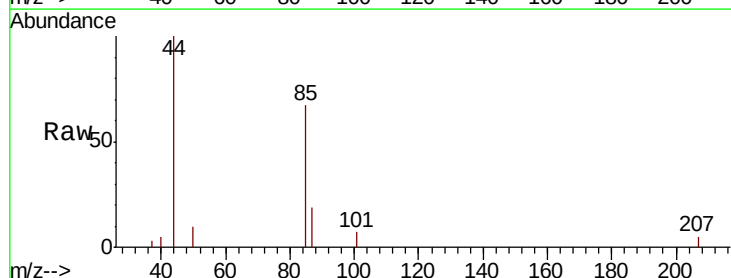
Acq: 14 Oct 2019 17:17

Tgt Ion: 85 Resp: 4812

Ion Ratio Lower Upper

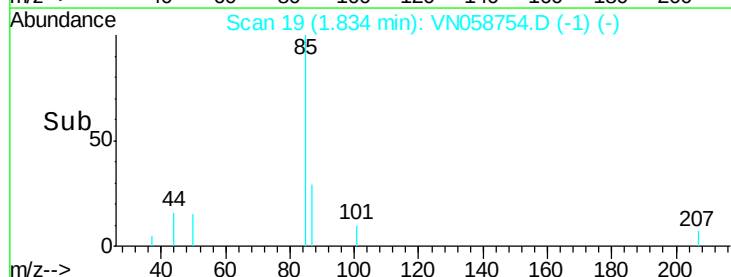
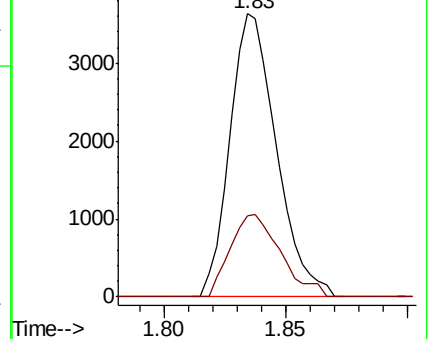
85 100

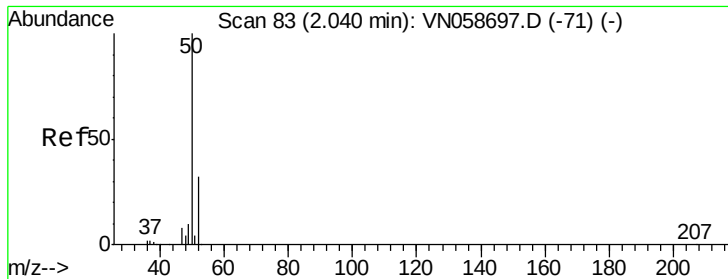
87 28.7 16.2 48.6



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 1.192 ug/l

RT: 2.04 min Scan# 84

Delta R.T. 0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 50 Resp: 6512

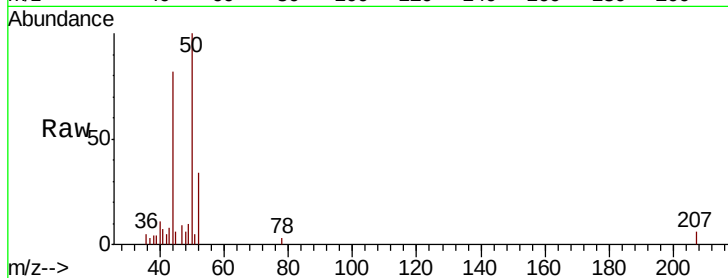
Ion Ratio Lower Upper

50 100

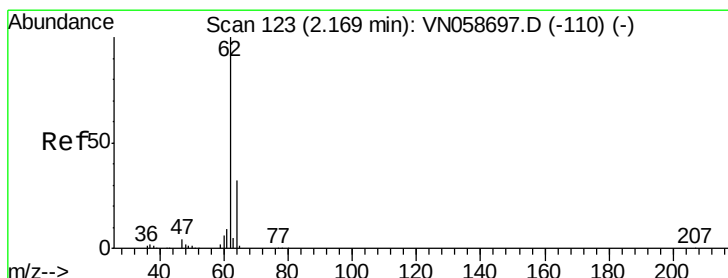
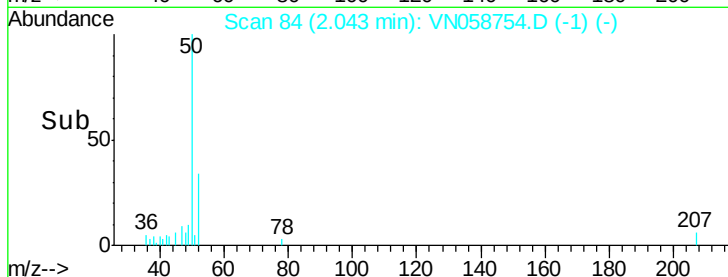
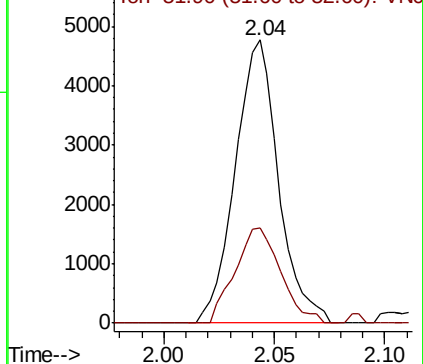
52 33.8 25.8 38.6

Manual Integrations
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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: 1.235 ug/l

RT: 2.17 min Scan# 123

Delta R.T. -0.00 min

Lab File: VN058754.D

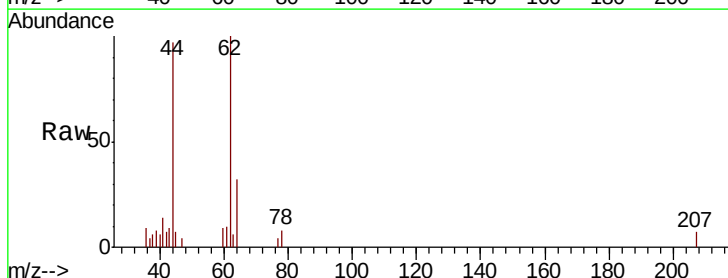
Acq: 14 Oct 2019 17:17

Tgt Ion: 62 Resp: 6721

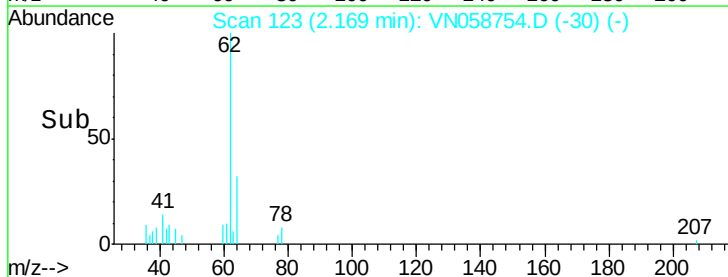
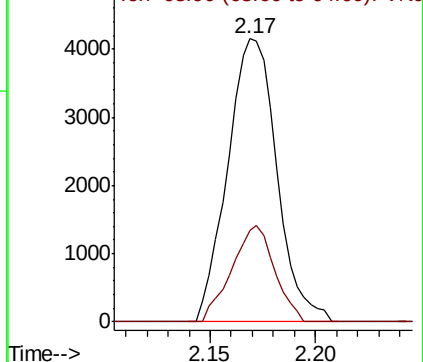
Ion Ratio Lower Upper

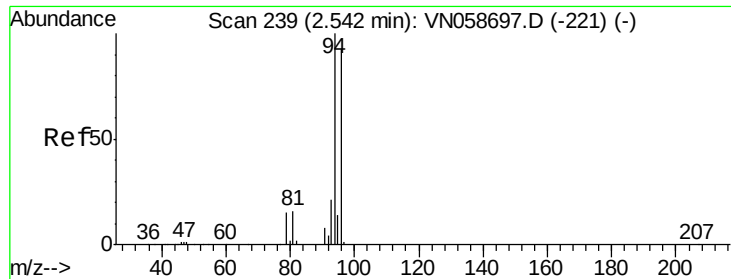
62 100

64 32.4 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VNO
Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 1.312 ug/l

RT: 2.54 min Scan# 240

Delta R.T. 0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 94 Resp: 4341

Ion Ratio Lower Upper

94 100

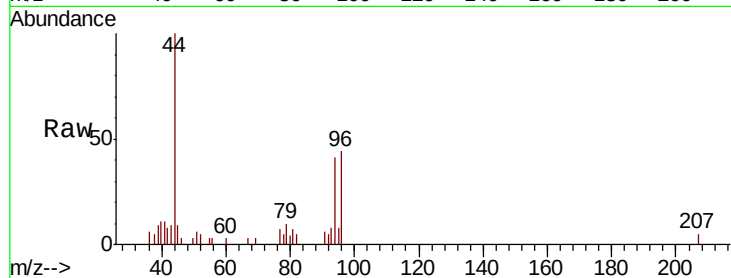
96 108.4 74.5 111.7

Manual Integrations

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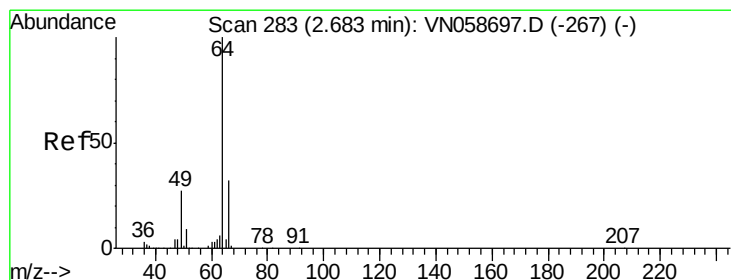
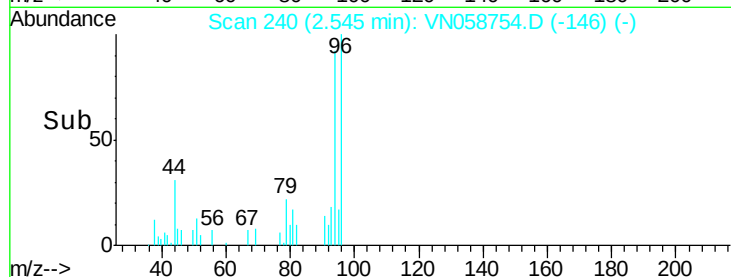
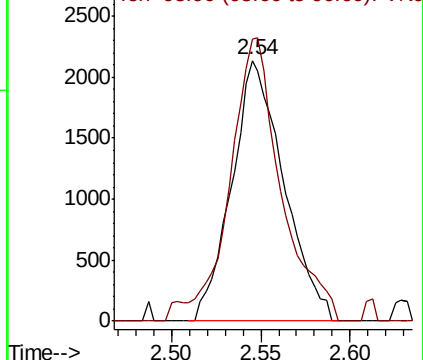
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 1.319 ug/l

RT: 2.69 min Scan# 284

Delta R.T. 0.00 min

Lab File: VN058754.D

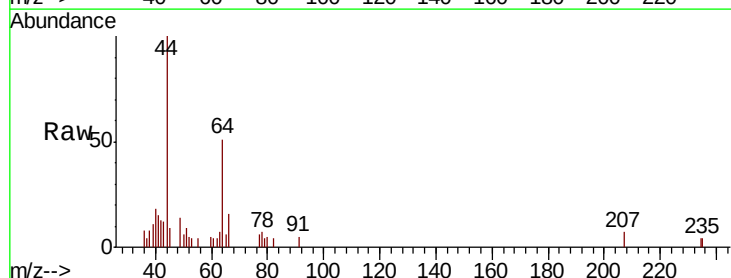
Acq: 14 Oct 2019 17:17

Tgt Ion: 64 Resp: 4428

Ion Ratio Lower Upper

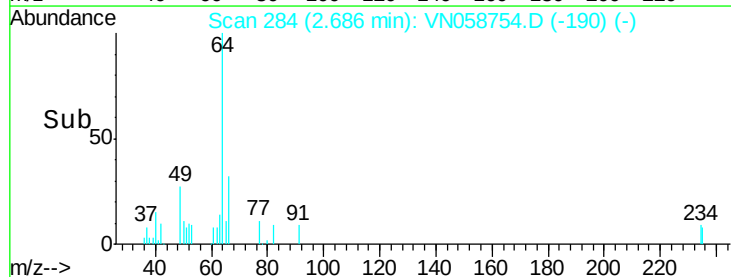
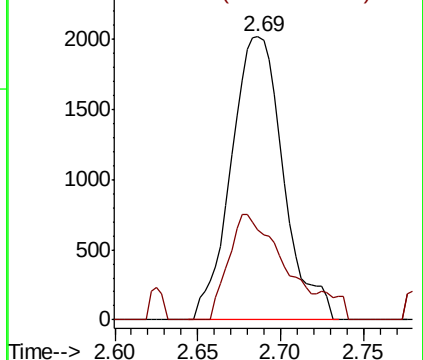
64 100

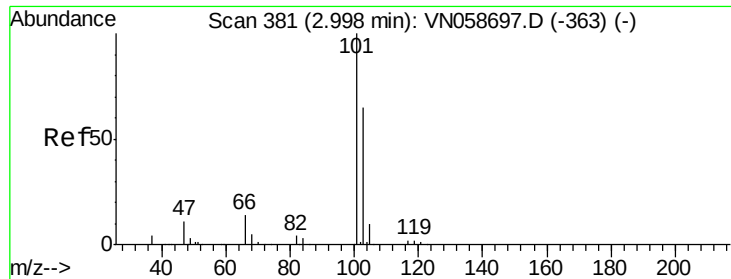
66 31.8 25.4 38.2



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

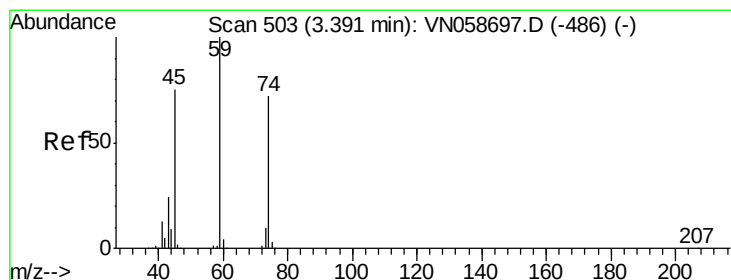
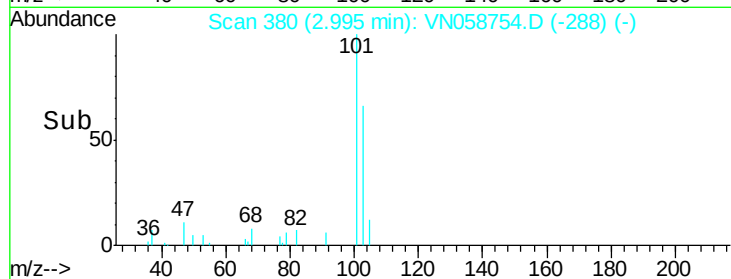
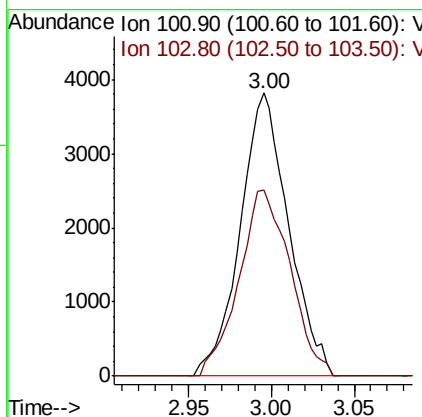
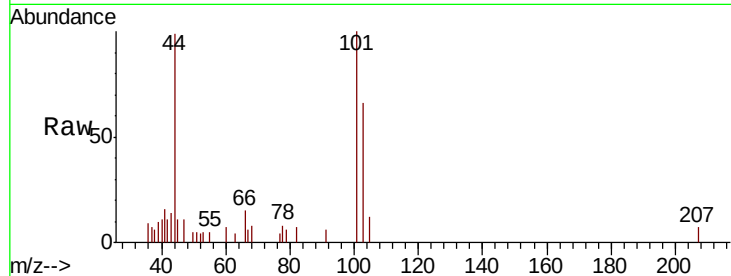
Trichlorofluoromethane
 Concen: 1.191 ug/l
 RT: 3.00 min Scan# 380
 Delta R.T. -0.00 min
 Lab File: VN058754.D
 Acq: 14 Oct 2019 17:17

Instrument :
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 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.7	51.8	77.6

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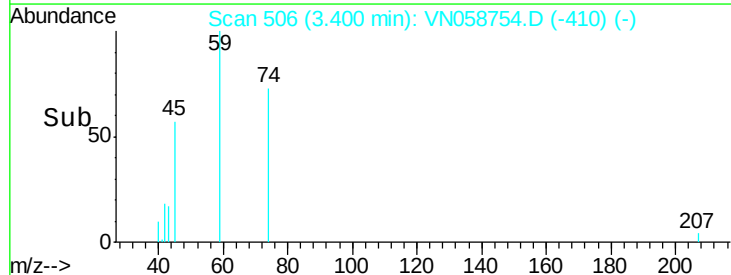
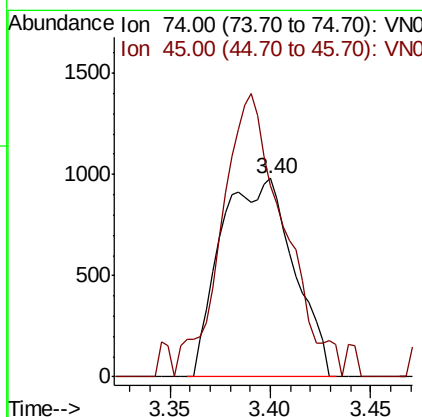
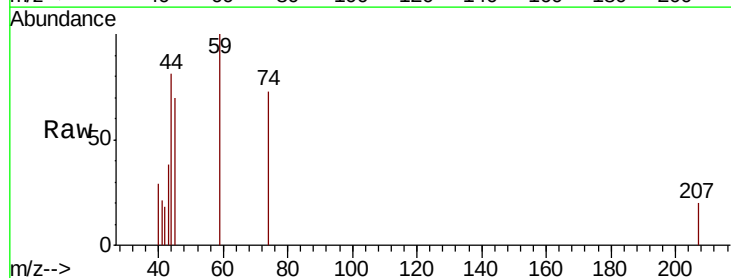
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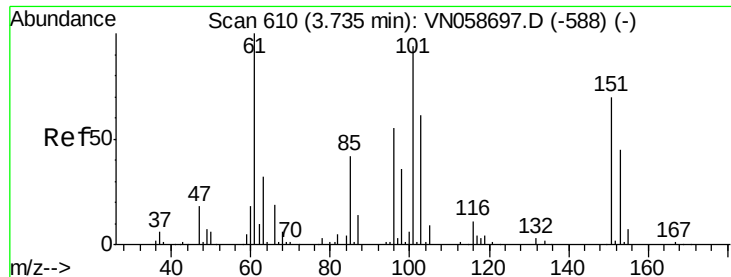


#8

Diethyl Ether
 Concen: 1.031 ug/l m
 RT: 3.40 min Scan# 506
 Delta R.T. 0.01 min
 Lab File: VN058754.D
 Acq: 14 Oct 2019 17:17

Tgt Ion	Ratio	Lower	Upper
74	100		
45	122.4	51.3	154.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.014 ug/l

RT: 3.73 min Scan# 610

Delta R.T. -0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Instrument :

MSVOA_N

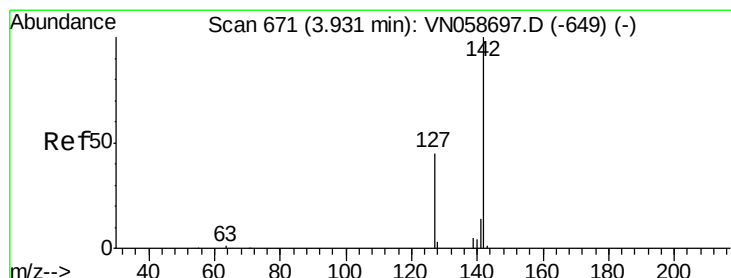
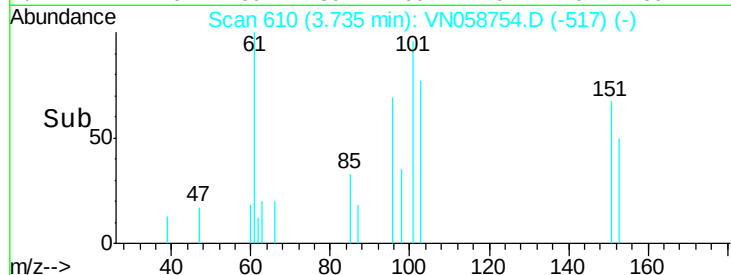
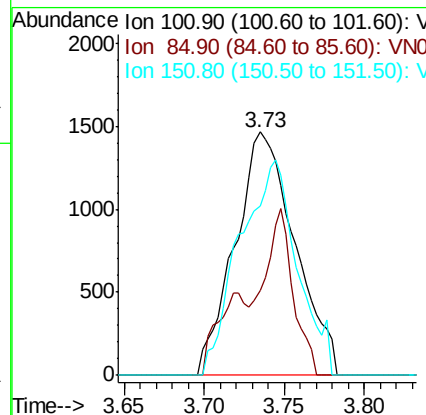
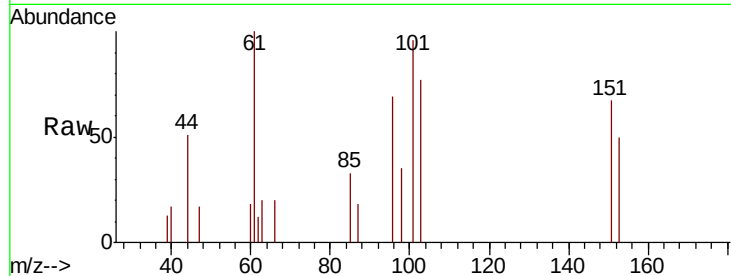
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
101	100		
85	33.8	37.0	55.6#
151	85.2	61.8	92.6

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#10

Methyl Iodide

Concen: 0.954 ug/l

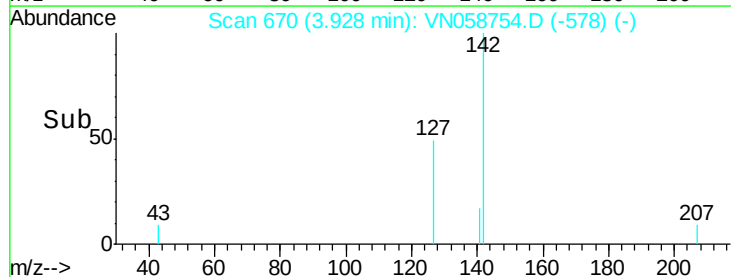
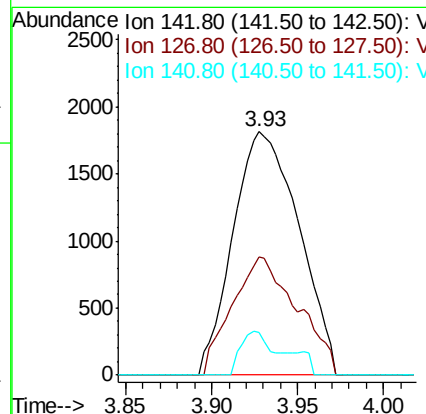
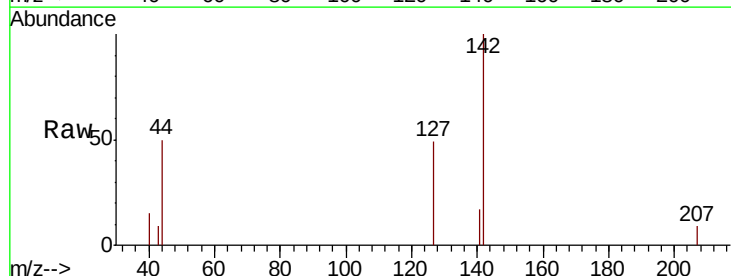
RT: 3.93 min Scan# 670

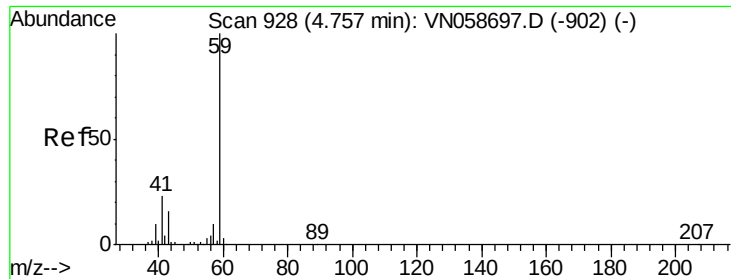
Delta R.T. -0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Tgt Ion	Ratio	Lower	Upper
142	100		
127	48.0	36.4	54.6
141	9.1	11.1	16.7#





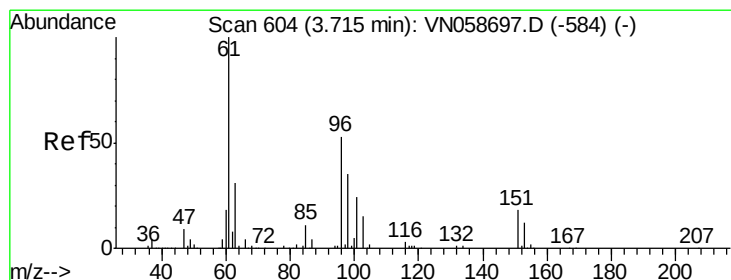
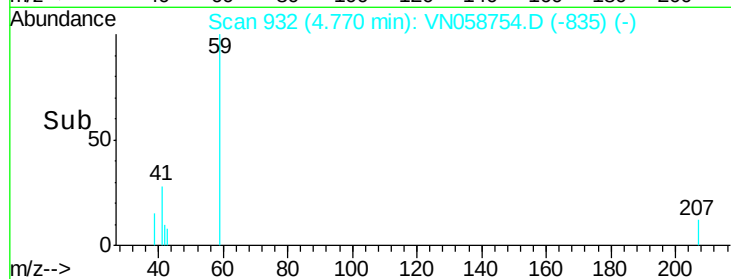
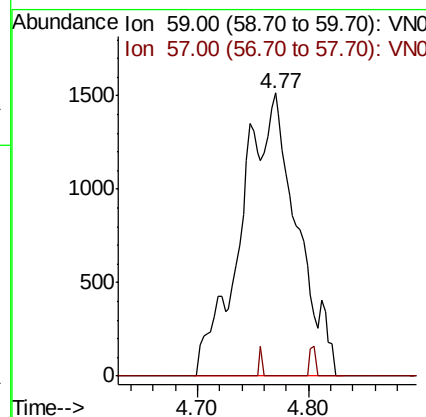
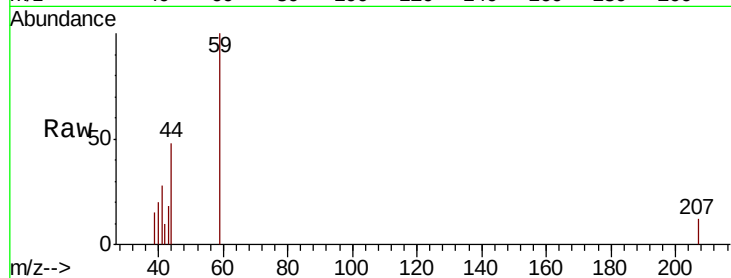
#11
Tert butyl alcohol
Concen: 6.351 ug/l m
RT: 4.77 min Scan# 932
Delta R.T. 0.01 min
Lab File: VN058754.D
Acq: 14 Oct 2019 17:17

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion: 59 Resp: 5311
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#

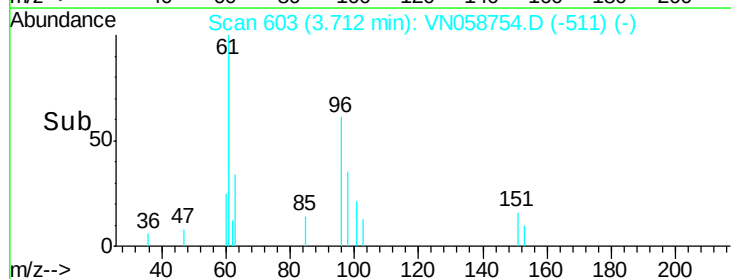
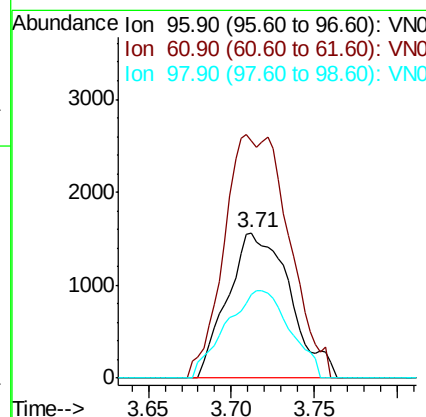
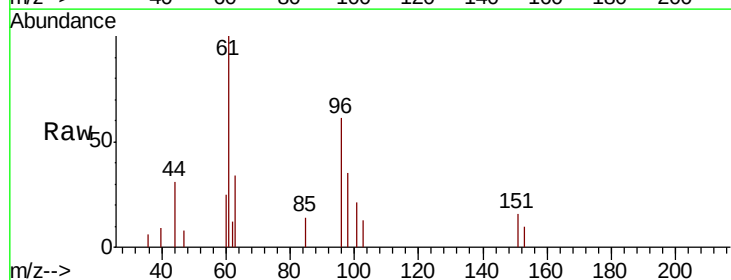
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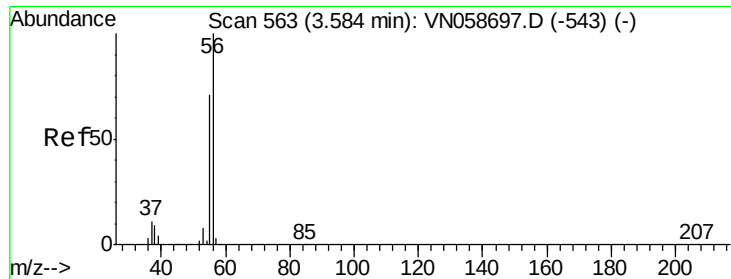
MMDadoda
10/16/2019 12:57:10 AM



#12
1,1-Dichloroethene
Concen: 1.152 ug/l
RT: 3.71 min Scan# 603
Delta R.T. -0.00 min
Lab File: VN058754.D
Acq: 14 Oct 2019 17:17

Tgt Ion: 96 Resp: 4082
Ion Ratio Lower Upper
96 100
61 163.0 151.3 226.9
98 57.1 52.6 78.8





#13

Acrolein

Concen: 4.878 ug/l

RT: 3.59 min Scan# 565

Delta R.T. 0.01 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 56 Resp: 3281

Ion Ratio Lower Upper

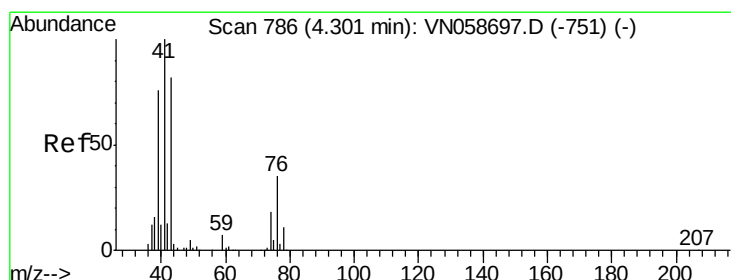
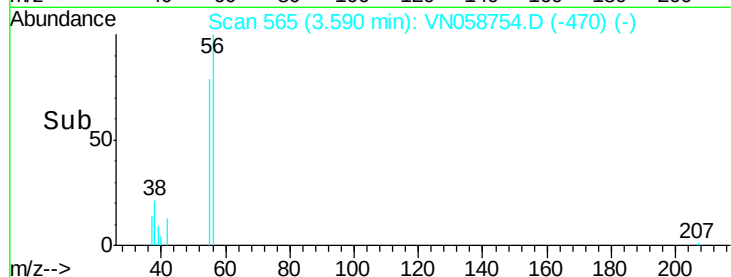
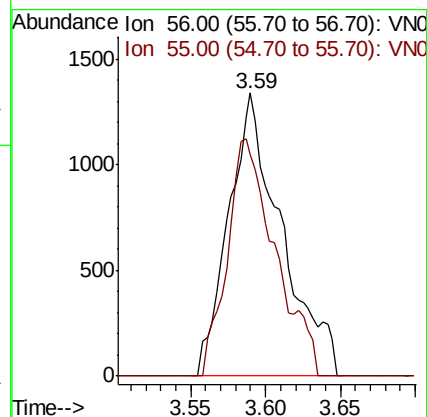
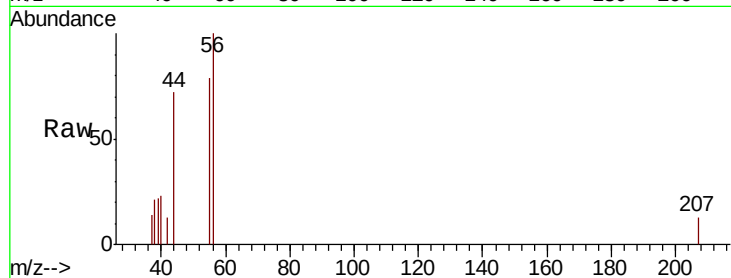
56 100

55 75.9 56.7 85.1

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#14

Allyl chloride

Concen: 1.140 ug/l

RT: 4.30 min Scan# 786

Delta R.T. -0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

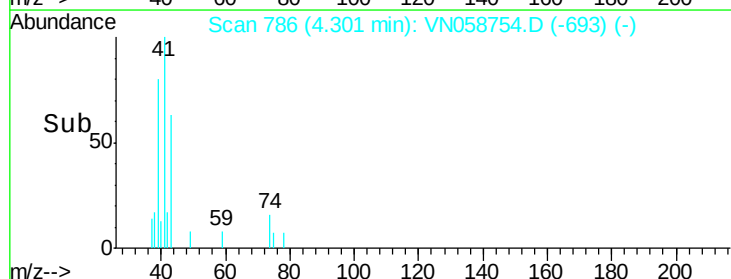
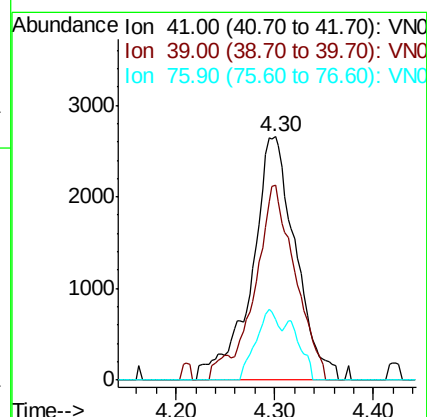
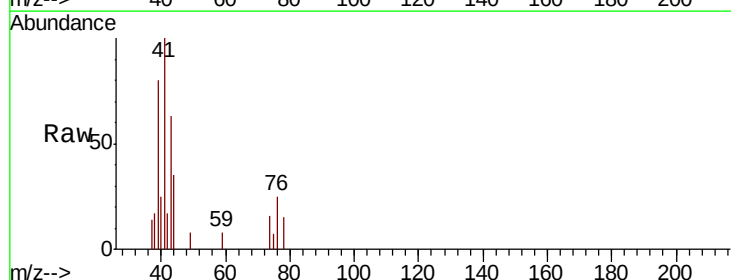
Tgt Ion: 41 Resp: 8146

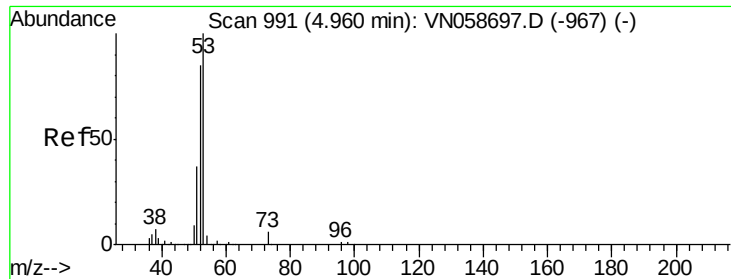
Ion Ratio Lower Upper

41 100

39 74.7 57.2 85.8

76 15.5 25.0 37.6#





#15

Acrylonitrile

Concen: 5.524 ug/l

RT: 4.97 min Scan# 995

Delta R.T. 0.01 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Instrument :

MSVOA_N

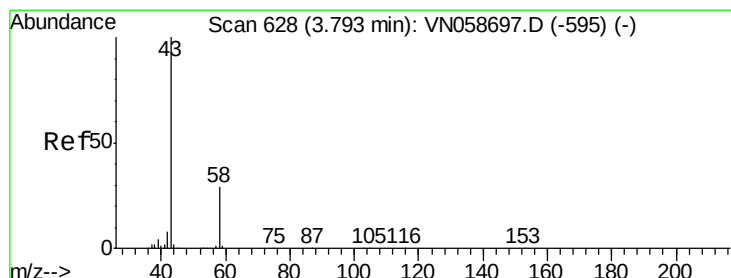
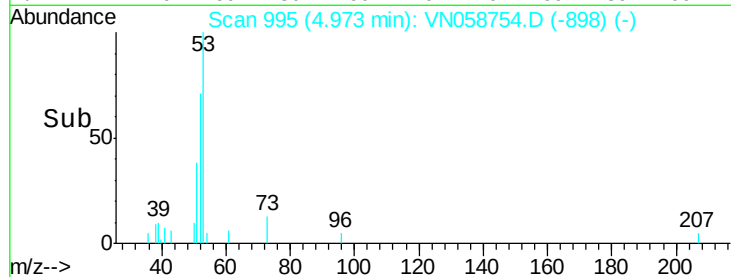
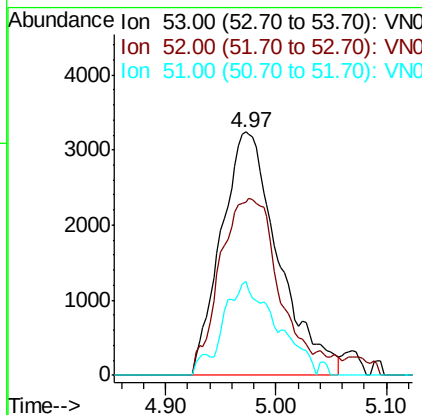
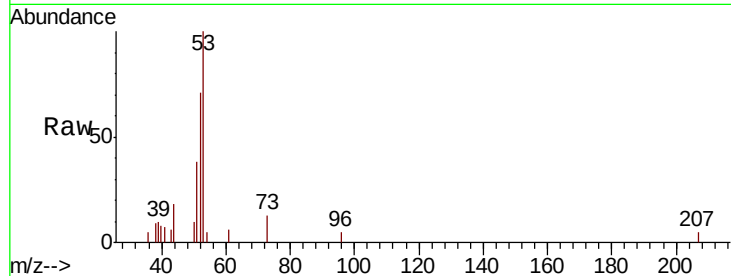
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	53	Resp:	11651
Ion	Ratio	Lower	Upper
53	100		
52	73.9	66.2	99.2
51	33.9	29.4	44.2

Manual Integrations
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#16

Acetone

Concen: 5.197 ug/l

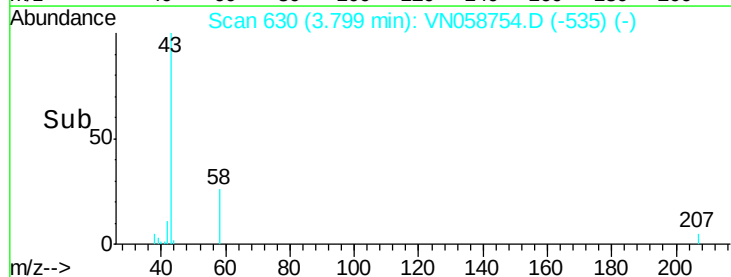
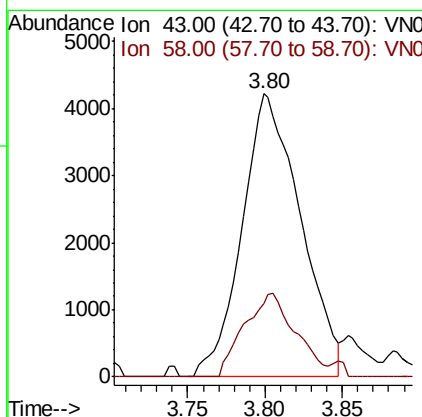
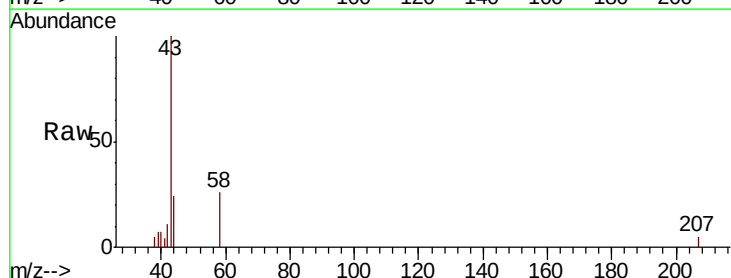
RT: 3.80 min Scan# 630

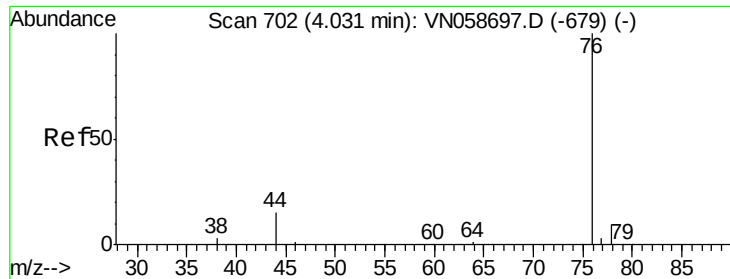
Delta R.T. 0.01 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Tgt Ion:	43	Resp:	11110
Ion	Ratio	Lower	Upper
43	100		
58	26.1	23.3	34.9





#17

Carbon Disulfide

Concen: 1.199 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 76 Resp: 13577

Ion Ratio Lower Upper

76 100

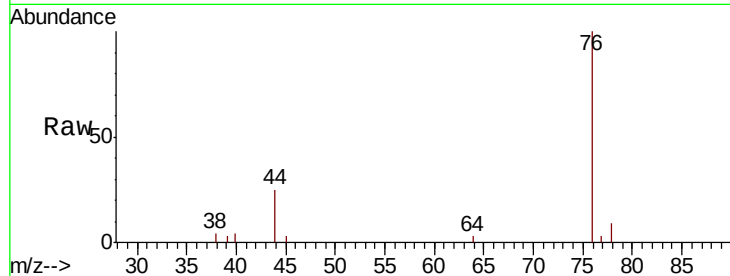
78 9.0 7.1 10.7

Manual Integrations

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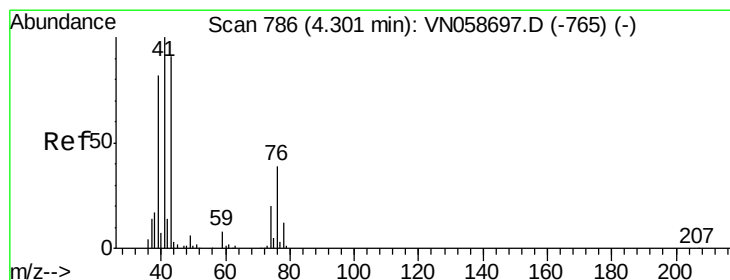
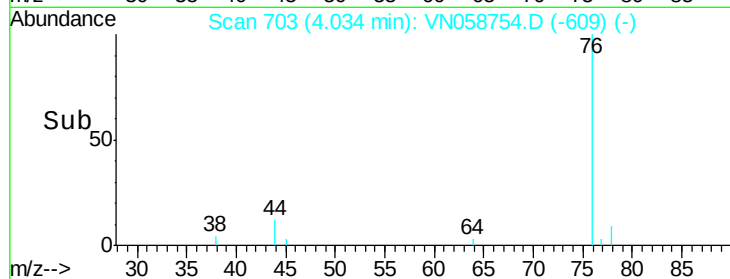
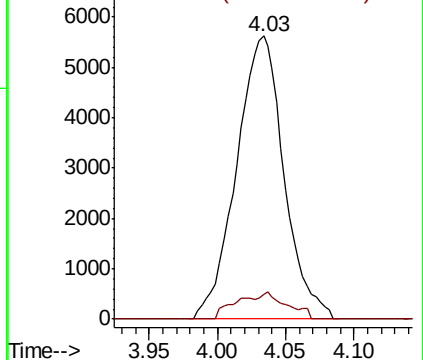
MMDadoda

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 1.199 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.01 min

Lab File: VN058754.D

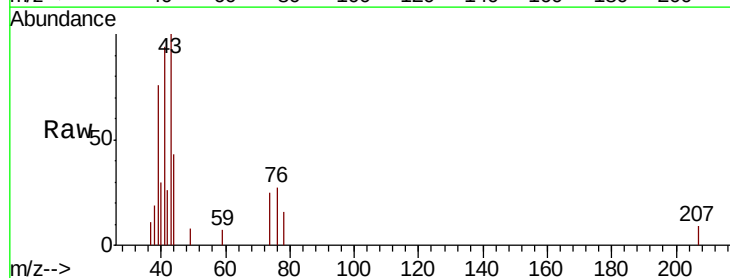
Acq: 14 Oct 2019 17:17

Tgt Ion: 43 Resp: 6500

Ion Ratio Lower Upper

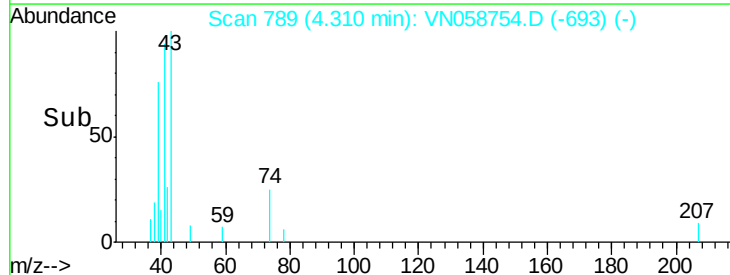
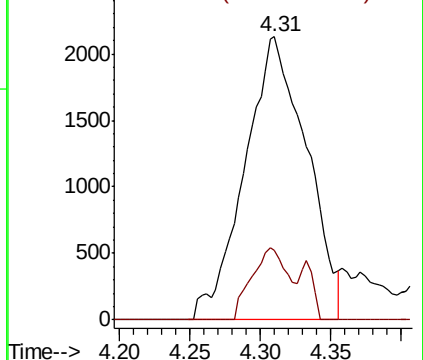
43 100

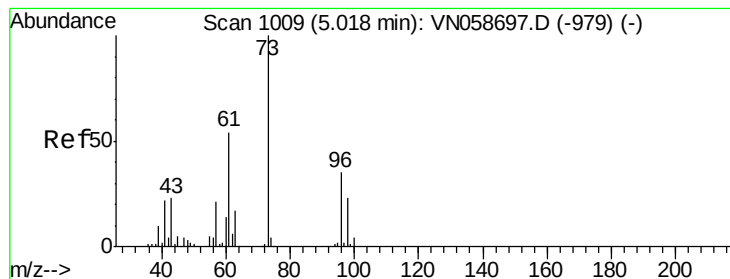
74 15.2 17.2 25.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#19

Methyl tert-butyl Ether

Concen: 0.988 ug/l

RT: 5.02 min Scan# 1009

Delta R.T. -0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 73 Resp: 12495

Ion Ratio Lower Upper

73 100

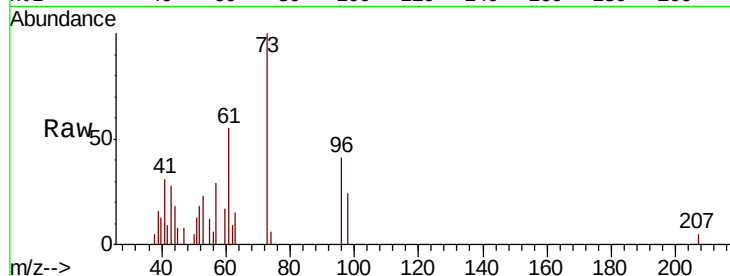
57 28.8 17.0 25.6#

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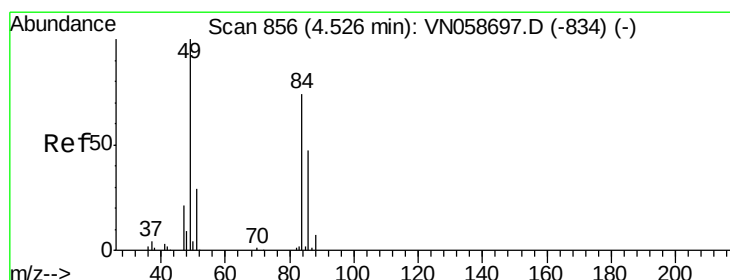
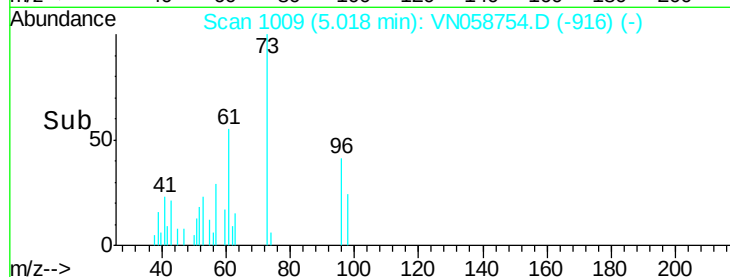
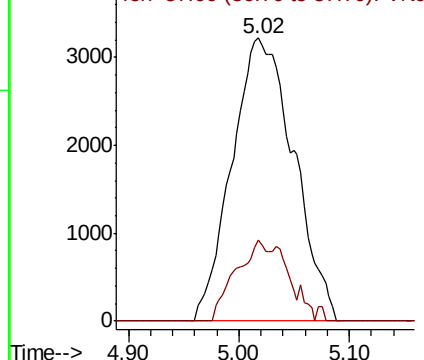
MMDadoda

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Abundance Ion 73.00 (72.70 to 73.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#20

Methylene Chloride

Concen: 1.253 ug/l m

RT: 4.52 min Scan# 855

Delta R.T. -0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Tgt Ion: 84 Resp: 5597

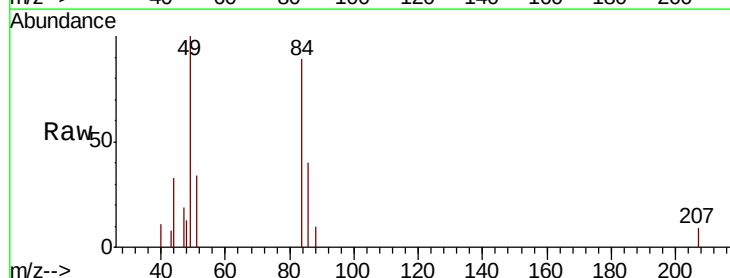
Ion Ratio Lower Upper

84 100

49 112.7 107.6 161.4

51 37.8 31.4 47.0

86 44.7 50.3 75.5#

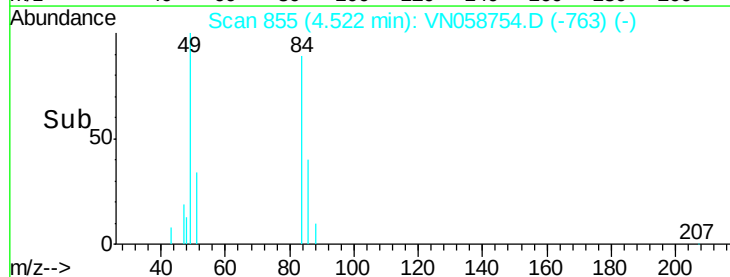
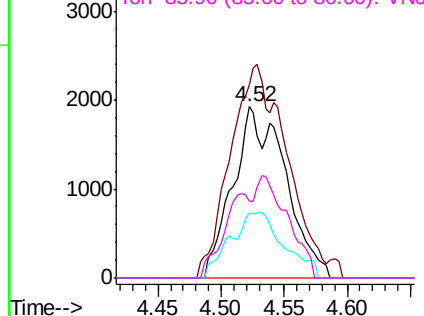


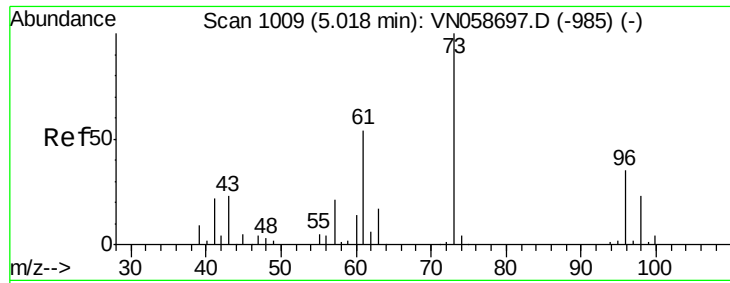
Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0





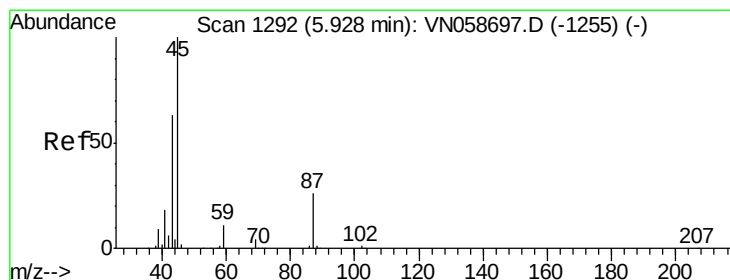
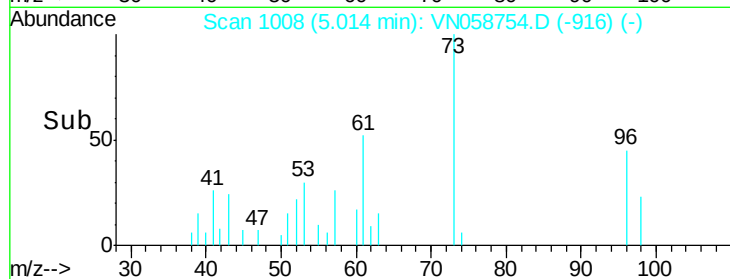
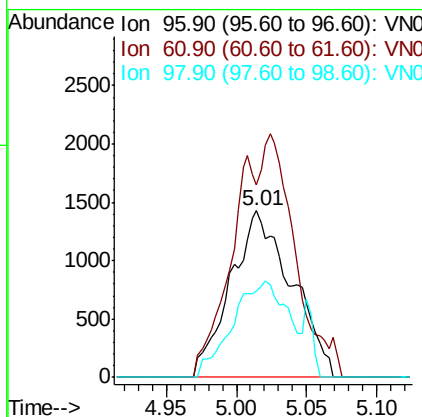
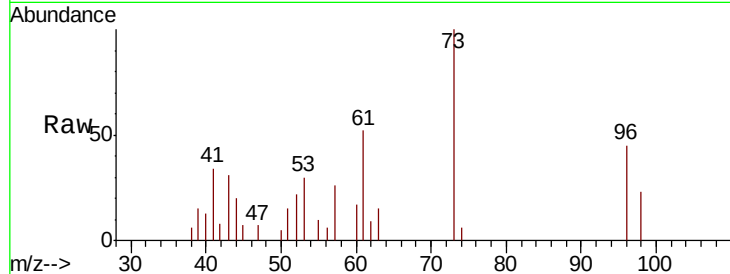
#21
trans-1,2-Dichloroethene
Concen: 1.092 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. -0.00 min
Lab File: VN058754.D
Acq: 14 Oct 2019 17:17

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	115.5	123.6	185.4#
98	51.8	52.1	78.1#

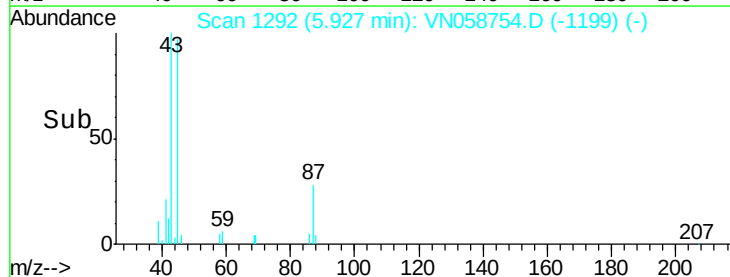
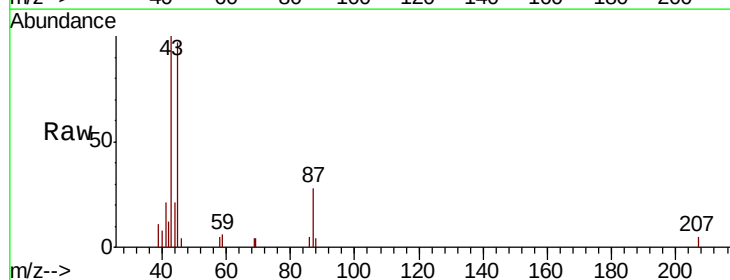
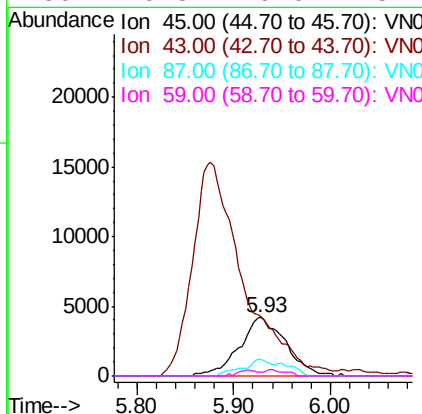
Manual Integrations
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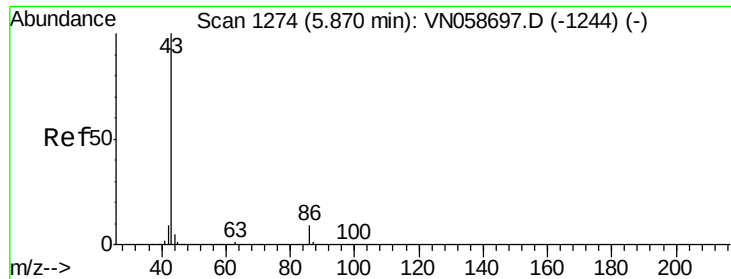
MMDadoda
10/16/2019 12:57:10 AM



#22
Diisopropyl ether
Concen: 1.001 ug/l
RT: 5.93 min Scan# 1292
Delta R.T. -0.00 min
Lab File: VN058754.D
Acq: 14 Oct 2019 17:17

Tgt Ion	Ratio	Lower	Upper
45	100		
43	94.3	50.6	75.8#
87	28.7	21.1	31.7
59	6.3	9.0	13.4#





#23

Vinyl Acetate

Concen: 4.989 ug/l

RT: 5.88 min Scan# 1276

Delta R.T. 0.01 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 43 Resp: 55953

Ion Ratio Lower Upper

43 100

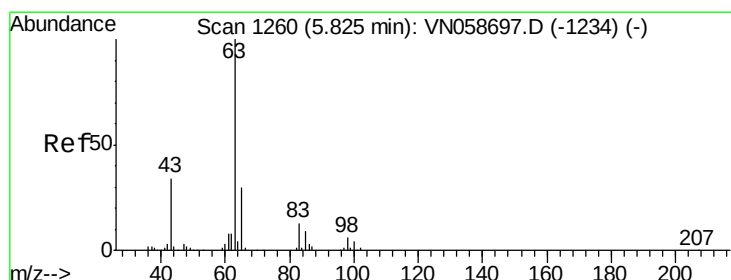
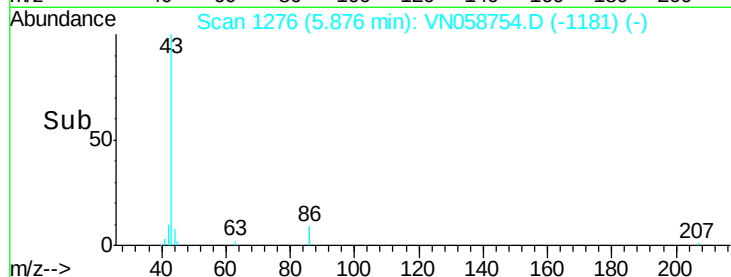
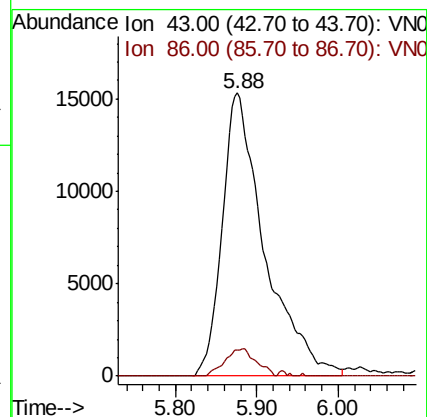
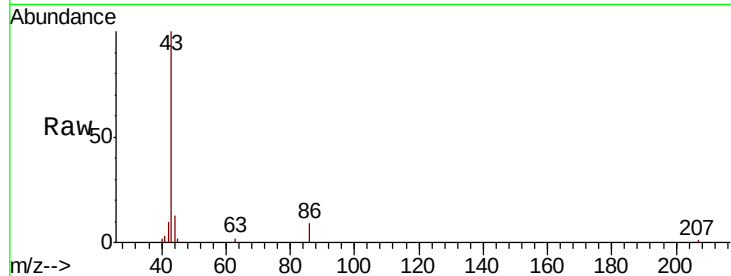
86 9.4 7.4 11.0

Manual Integrations

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MMDadoda

10/16/2019 12:57:10 AM



#24

1,1-Dichloroethane

Concen: 1.144 ug/l

RT: 5.82 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

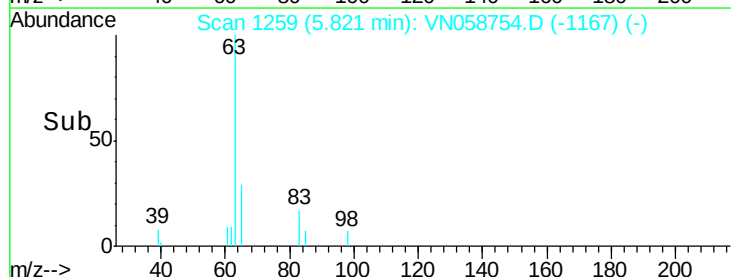
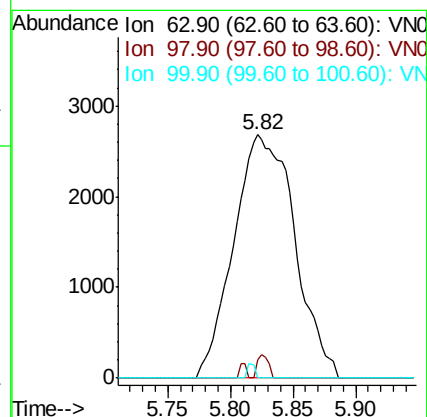
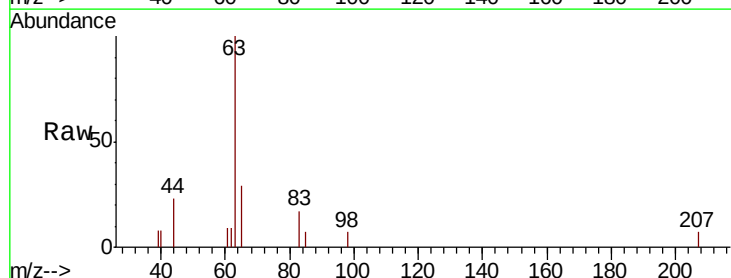
Tgt Ion: 63 Resp: 9055

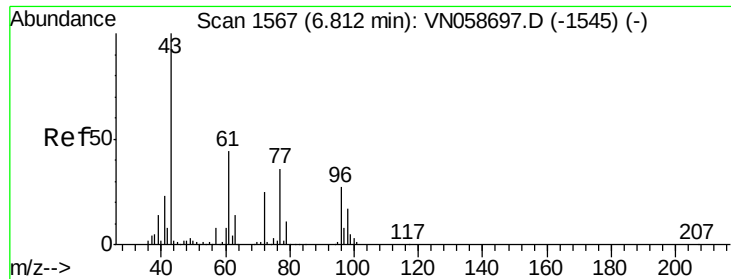
Ion Ratio Lower Upper

63 100

98 7.3 2.9 8.6

100 0.0 1.8 5.5#





#25

2-Butanone

Concen: 5.494 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. 0.01 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 43 Resp: 16975

Ion Ratio Lower Upper

43 100

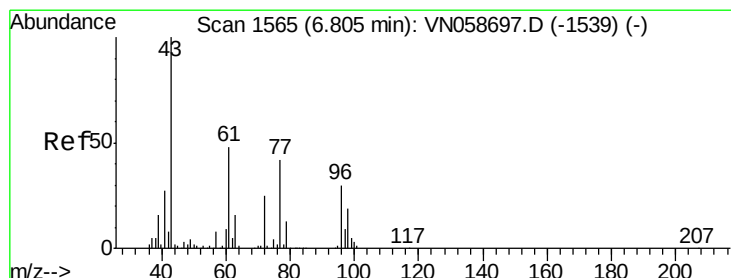
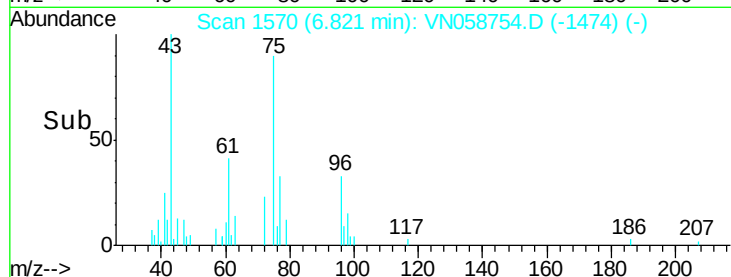
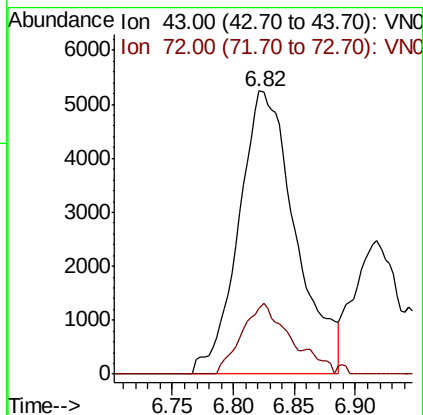
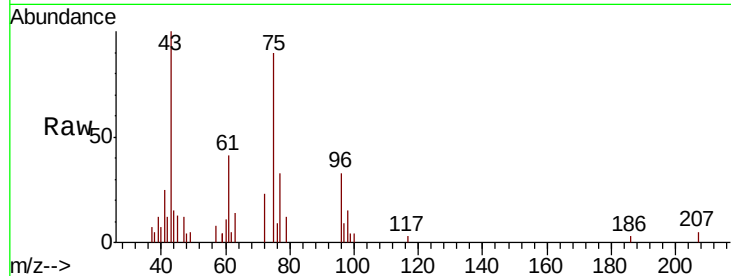
72 23.4 20.2 30.2

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 1.085 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. -0.00 min

Lab File: VN058754.D

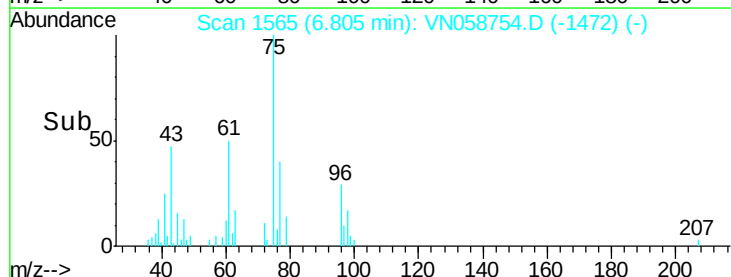
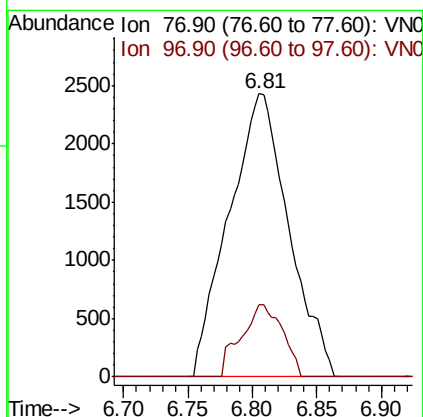
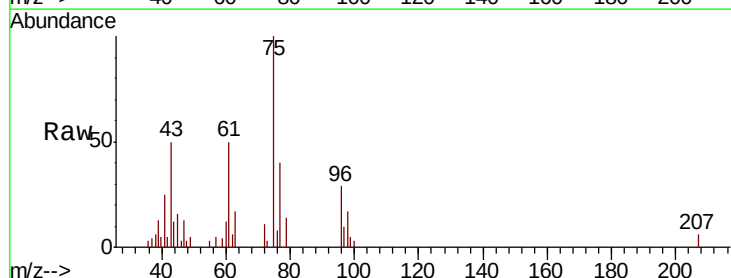
Acq: 14 Oct 2019 17:17

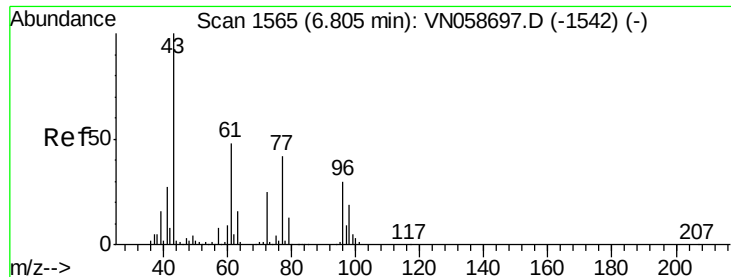
Tgt Ion: 77 Resp: 7837

Ion Ratio Lower Upper

77 100

97 17.7 10.7 31.9





#27

cis-1,2-Dichloroethene

Concen: 1.243 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. 0.01 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Instrument :

MSVOA_N

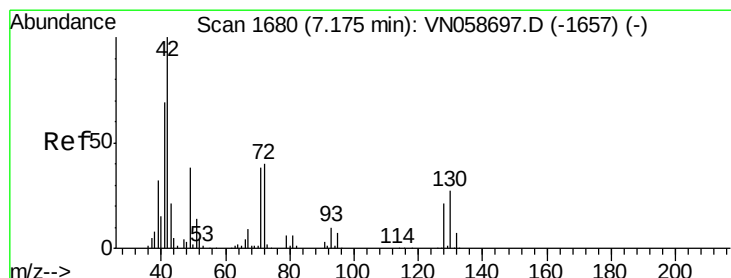
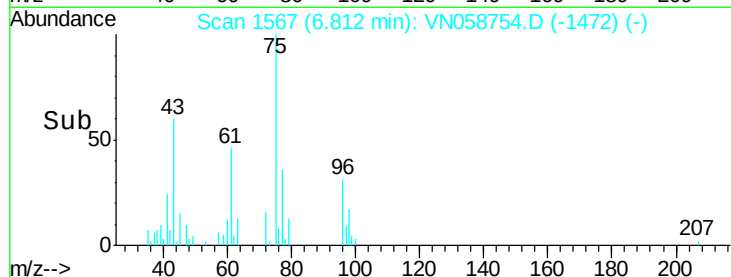
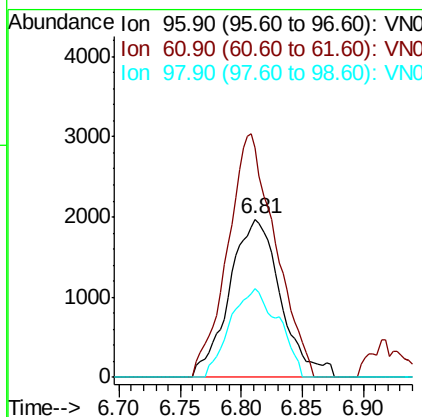
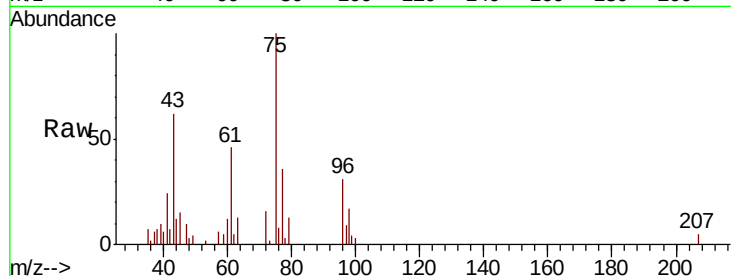
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	96	Resp:	5743
Ion	Ratio	Lower	Upper
96	100		
61	143.8	0.0	324.8
98	52.9	0.0	129.2

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#28

Bromochloromethane

Concen: 1.118 ug/l m

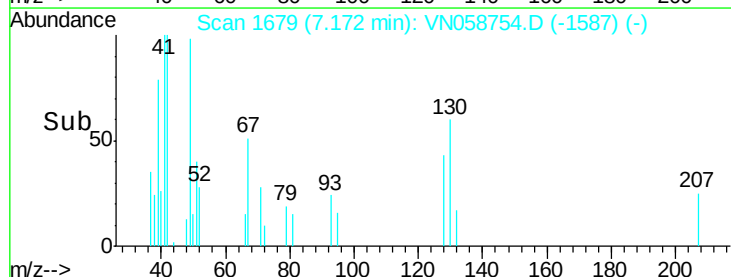
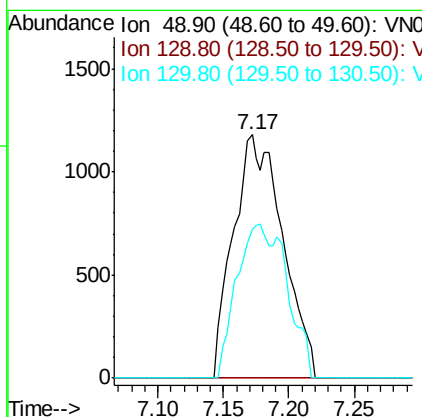
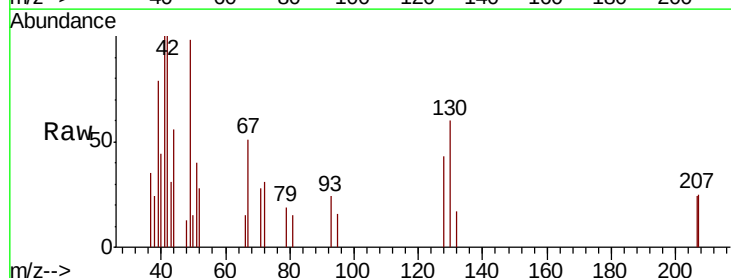
RT: 7.17 min Scan# 1679

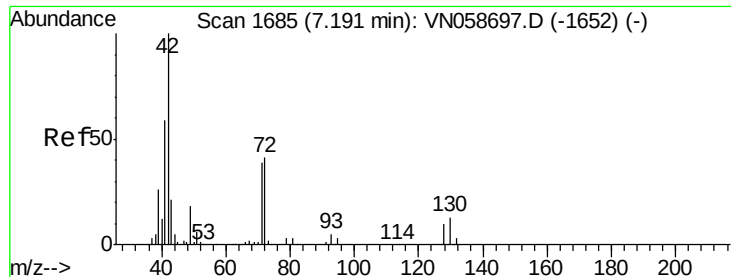
Delta R.T. -0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Tgt Ion:	49	Resp:	3080
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	64.4	55.0	82.4





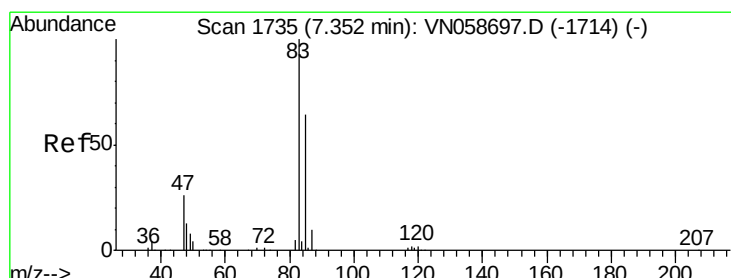
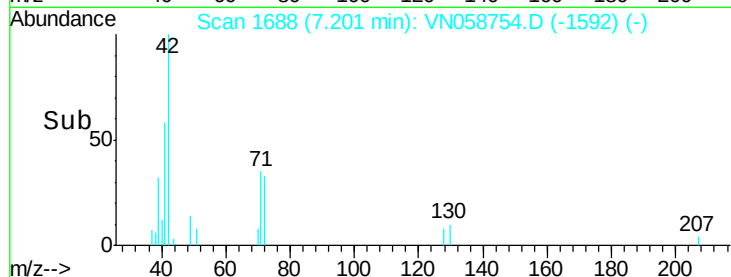
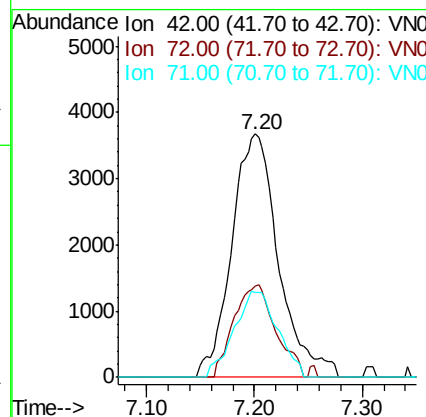
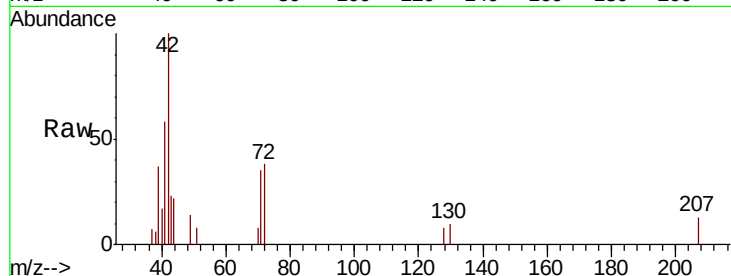
#29
Tetrahydrofuran
Concen: 5.566 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.01 min
Lab File: VN058754.D
Acq: 14 Oct 2019 17:17

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
42	100		
72	33.9	32.8	49.2
71	32.8	31.1	46.7

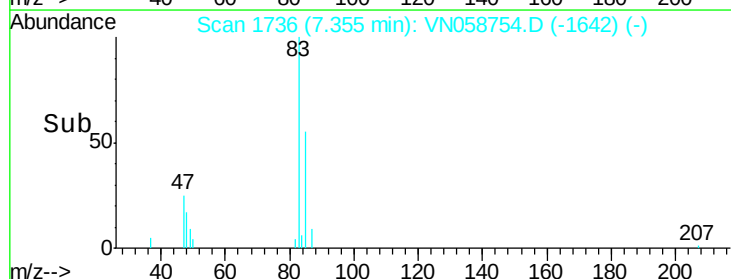
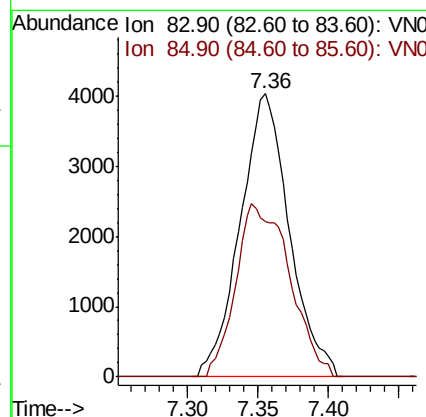
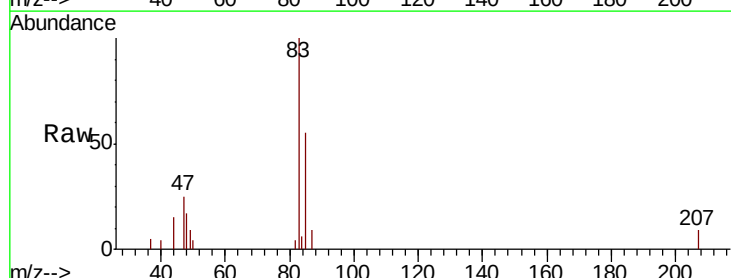
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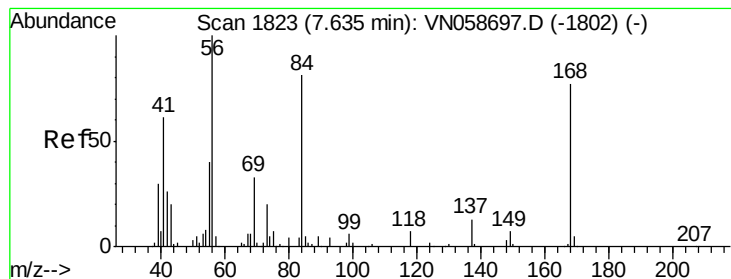
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#30
Chloroform
Concen: 1.237 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. 0.00 min
Lab File: VN058754.D
Acq: 14 Oct 2019 17:17

Tgt Ion	Ratio	Lower	Upper
83	100		
85	54.7	51.0	76.6





#31

Cyclohexane

Concen: 2.041 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Instrument :

MSVOA_N

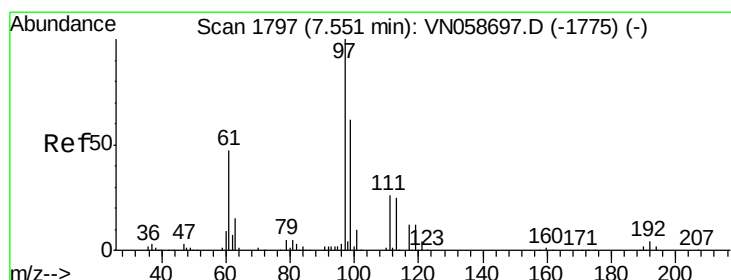
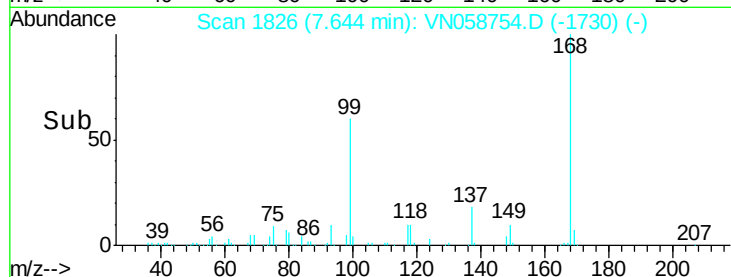
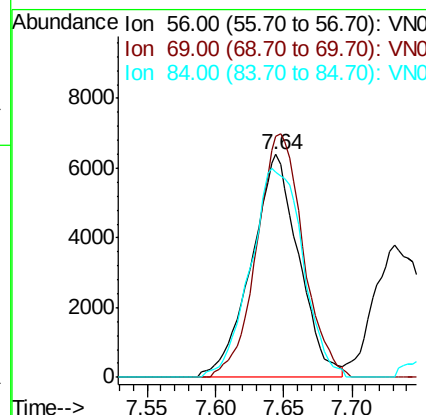
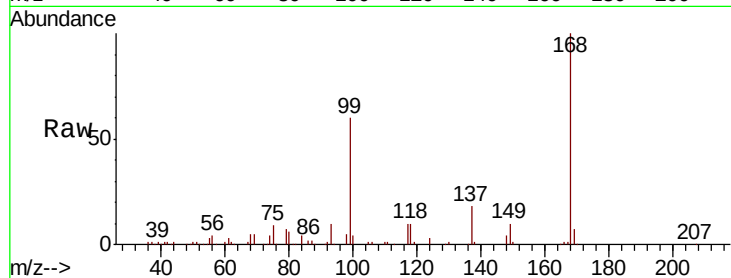
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	56	Resp:	15460
Ion Ratio	Lower	Upper	
56	100		
69	108.4	26.2	39.4#
84	92.3	64.9	97.3

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#32

1,1,1-Trichloroethane

Concen: 1.104 ug/l

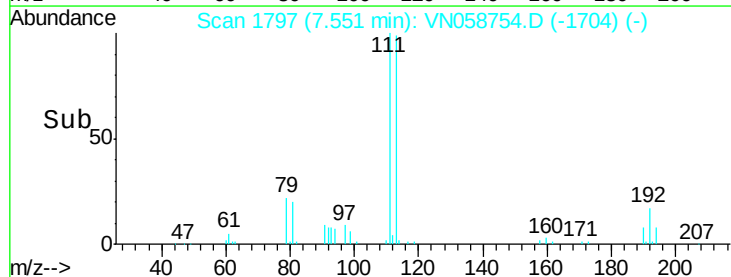
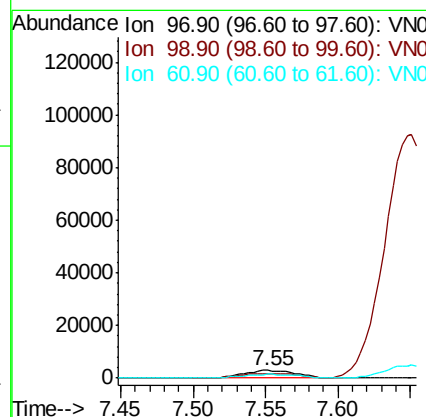
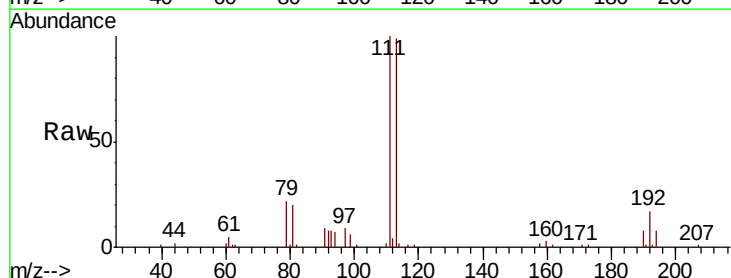
RT: 7.55 min Scan# 1797

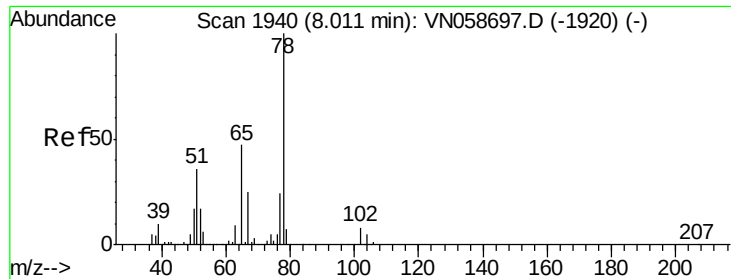
Delta R.T. -0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Tgt Ion:	97	Resp:	7491
Ion Ratio	Lower	Upper	
97	100		
99	0.0	50.8	76.2#
61	33.6	38.1	57.1#





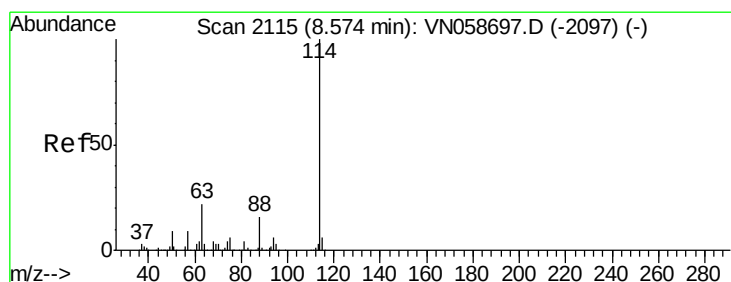
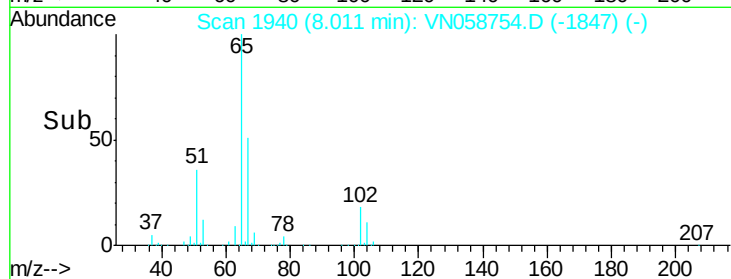
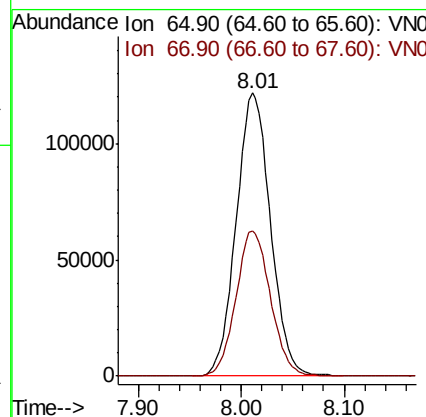
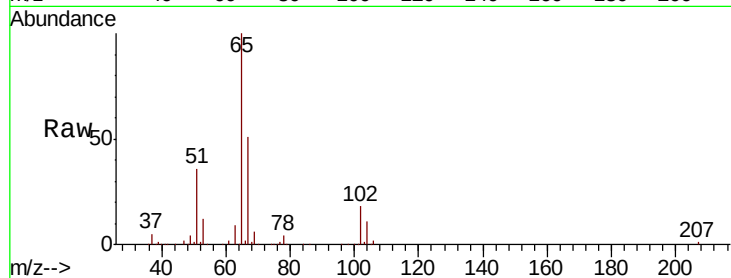
#33
 1,2-Dichloroethane-d4
 Concen: 54.568 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN058754.D
 Acq: 14 Oct 2019 17:17

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
65	100	281783		
67	51.6	0.0	103.8	

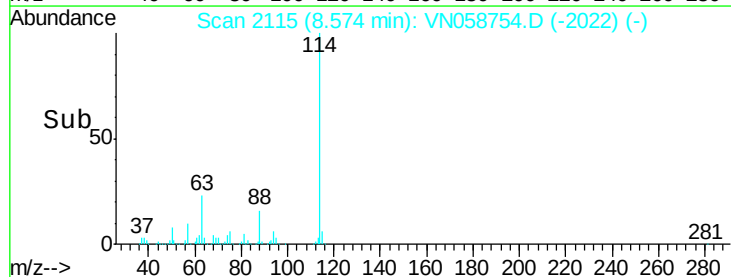
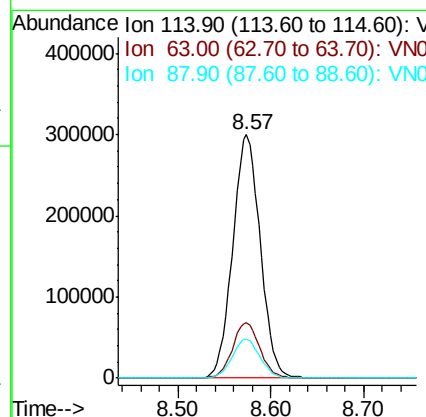
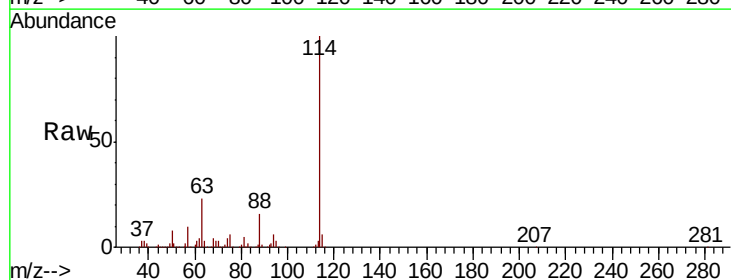
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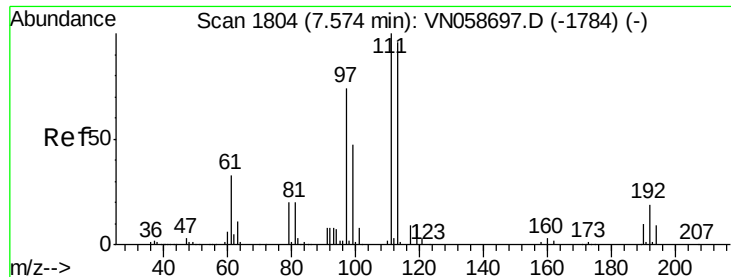
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058754.D
 Acq: 14 Oct 2019 17:17

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	617125		
63	22.6	0.0	43.8	
88	16.0	0.0	32.0	





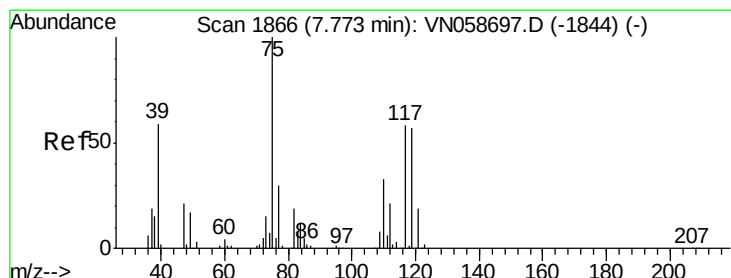
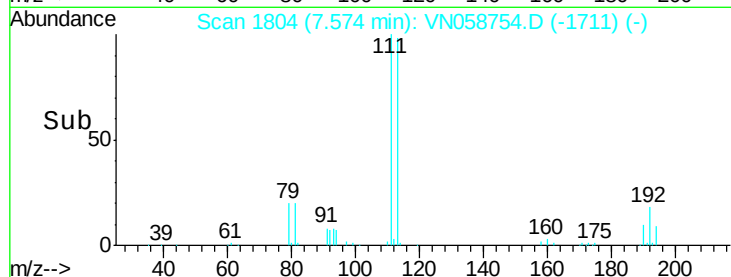
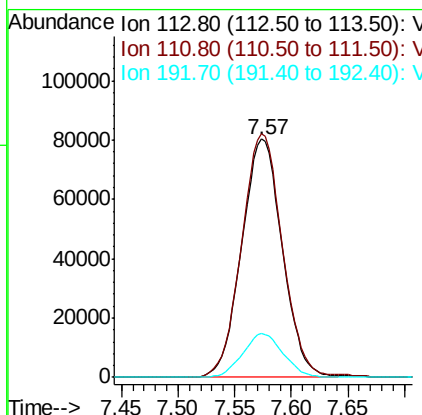
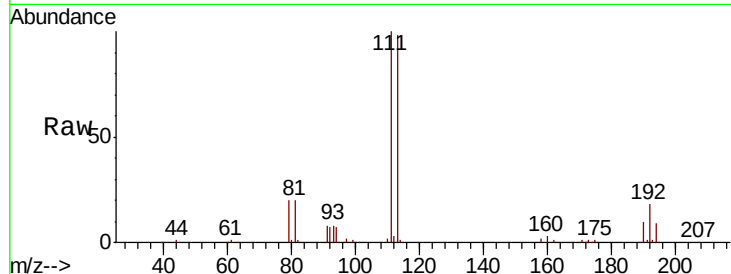
#35
Dibromofluoromethane
Concen: 52.601 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. -0.00 min
Lab File: VN058754.D
Acq: 14 Oct 2019 17:17

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
113	100	200509		
111	103.2		82.3	123.5
192	18.4		15.0	22.6

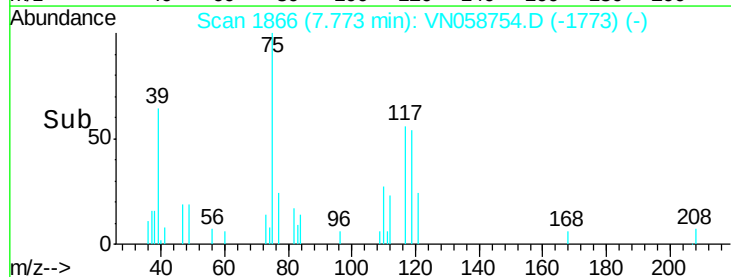
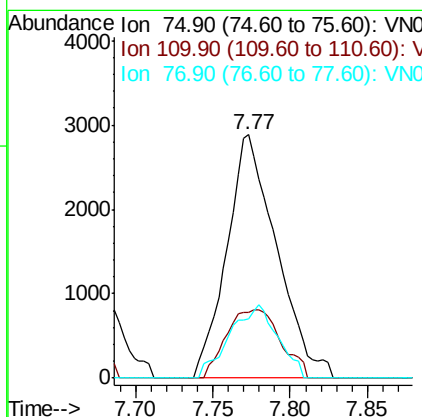
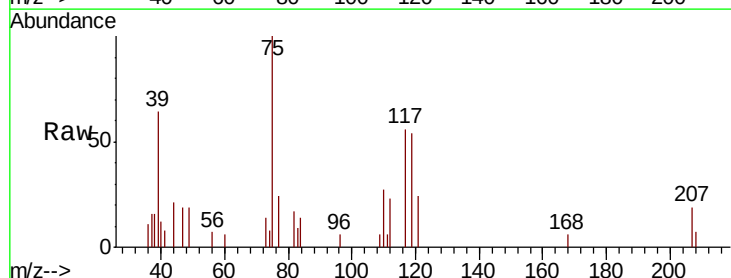
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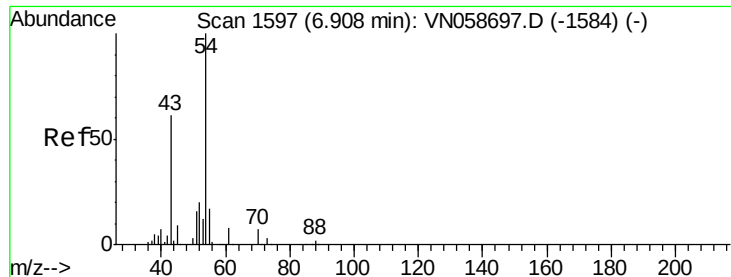
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#36
1,1-Dichloropropene
Concen: 1.032 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN058754.D
Acq: 14 Oct 2019 17:17

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	6442		
110	30.7		16.6	49.8
77	28.8		24.6	37.0





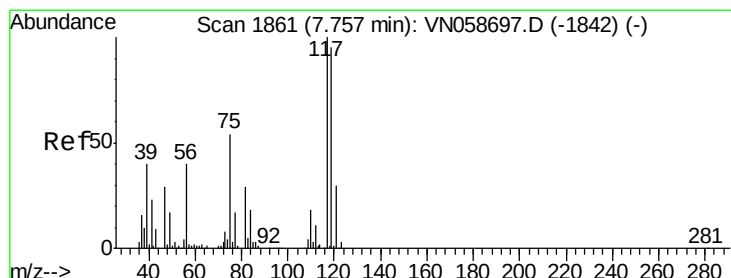
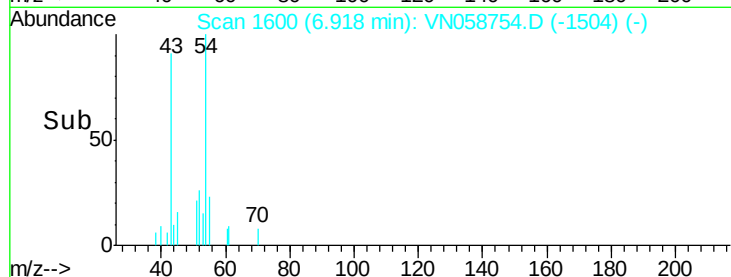
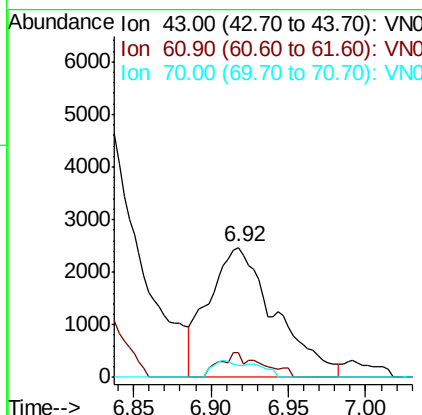
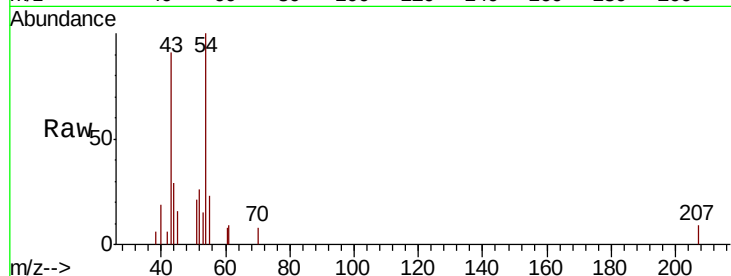
#37
Ethyl Acetate
Concen: 1.166 ug/l
RT: 6.92 min Scan# 1600
Delta R.T. 0.01 min
Lab File: VN058754.D
Acq: 14 Oct 2019 17:17

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	11.8	11.3	16.9
70	4.8	7.2	10.8

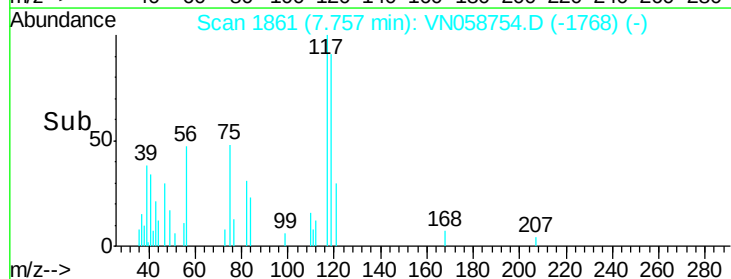
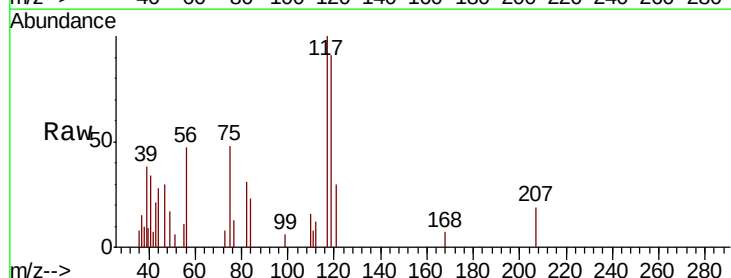
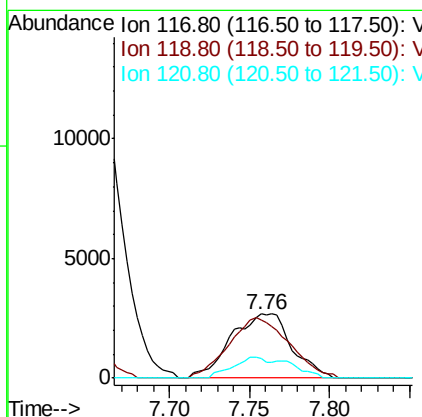
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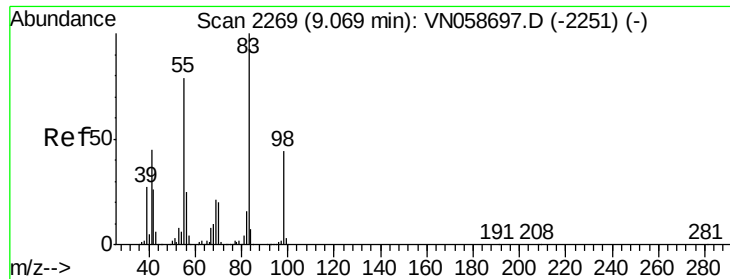
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#38
Carbon Tetrachloride
Concen: 1.146 ug/l
RT: 7.76 min Scan# 1861
Delta R.T. -0.00 min
Lab File: VN058754.D
Acq: 14 Oct 2019 17:17

Tgt Ion	Ratio	Lower	Upper
117	100		
119	91.4	75.7	113.5
121	30.1	23.9	35.9





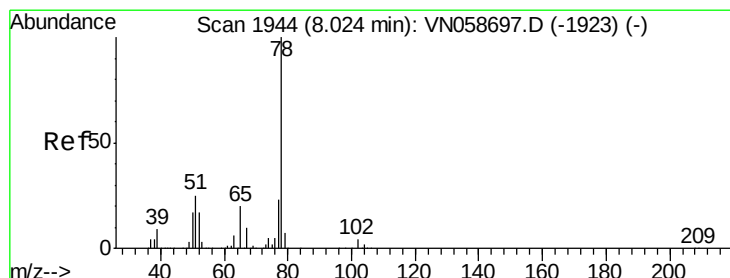
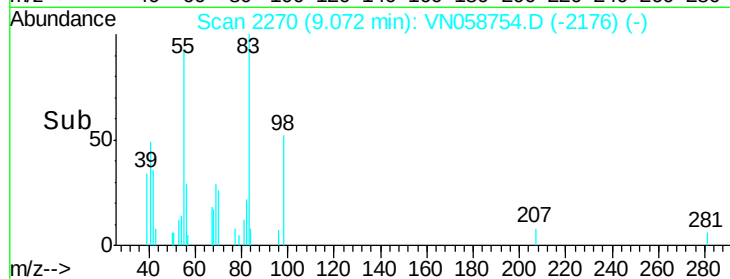
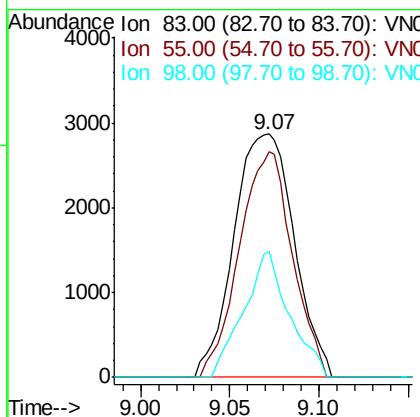
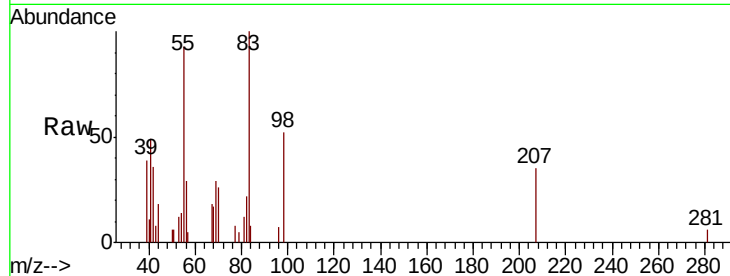
#39
Methylvlcyclohexane
Concen: 0.934 ug/l
RT: 9.07 min Scan# 2270
Delta R.T. 0.00 min
Lab File: VN058754.D
Acq: 14 Oct 2019 17:17

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
83	100		
55	92.6	63.4	95.0
98	51.5	35.1	52.7

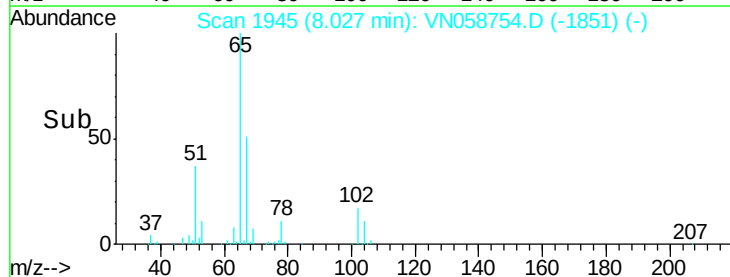
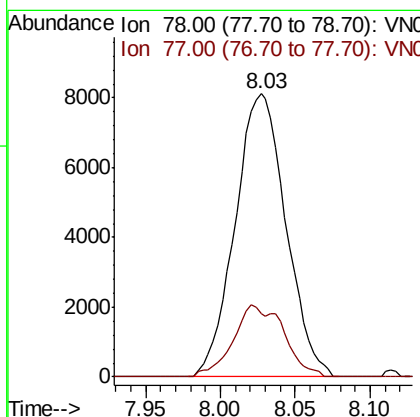
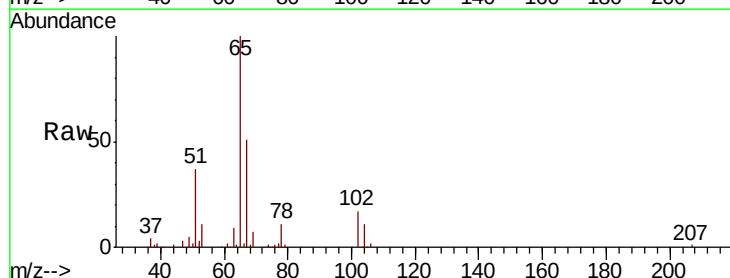
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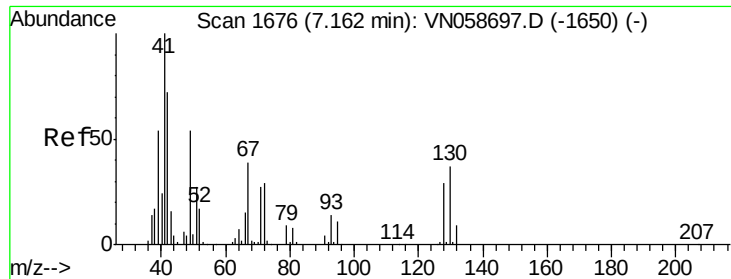
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#40
Benzene
Concen: 1.070 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN058754.D
Acq: 14 Oct 2019 17:17

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.4	18.8	28.2





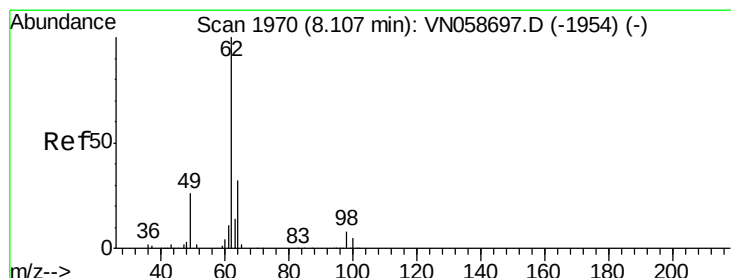
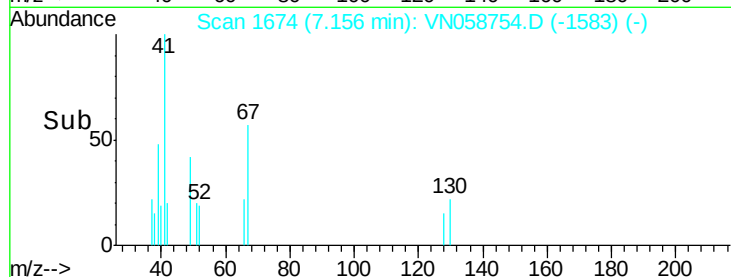
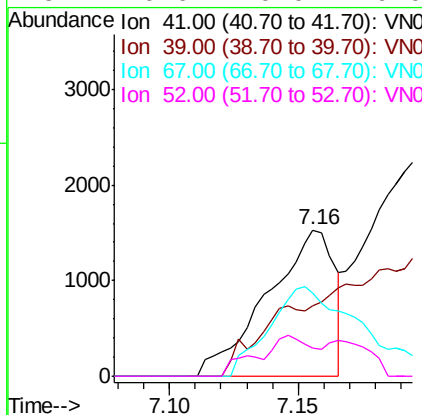
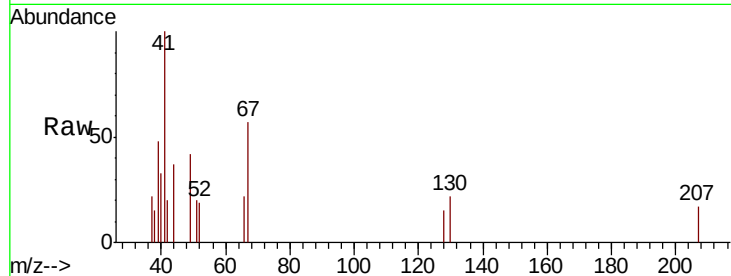
#41
Methacrylonitrile
Concen: 0.935 ug/l
RT: 7.16 min Scan# 1674
Delta R.T. -0.01 min
Lab File: VN058754.D
Acq: 14 Oct 2019 17:17

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
41	100		
39	35.4	115.4	173.2#
67	82.1	0.0	0.0#
52	16.6	0.0	0.0#

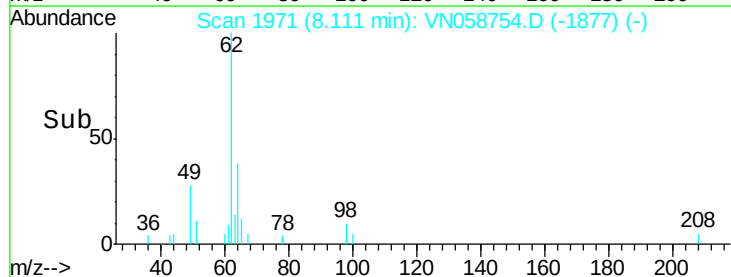
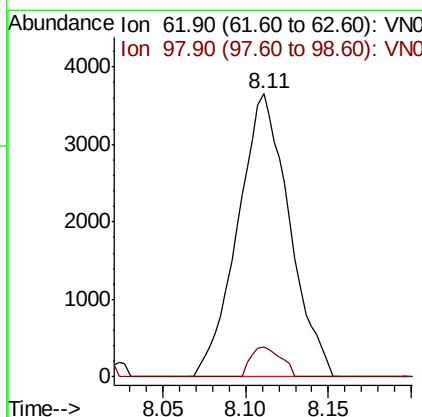
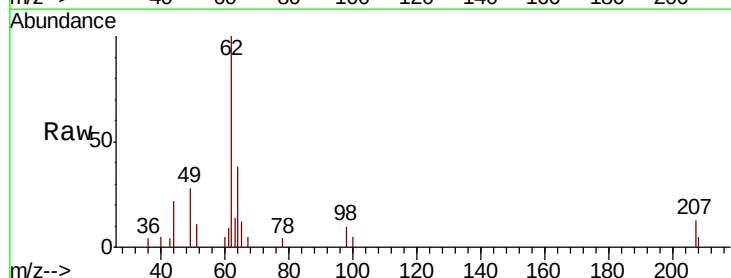
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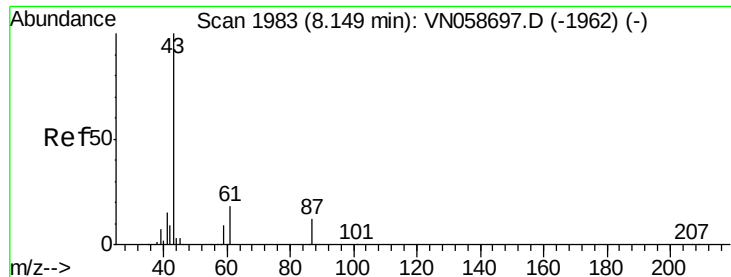
MMDadoda
10/16/2019 12:57:10 AM



#42
1,2-Dichloroethane
Concen: 1.150 ug/l
RT: 8.11 min Scan# 1971
Delta R.T. 0.00 min
Lab File: VN058754.D
Acq: 14 Oct 2019 17:17

Tgt Ion	Ratio	Lower	Upper
62	100		
98	6.2	0.0	15.8





#43

Isopropyl Acetate

Concen: 0.958 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Instrument :

MSVOA_N

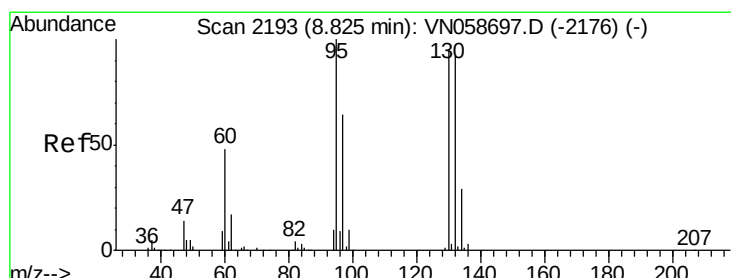
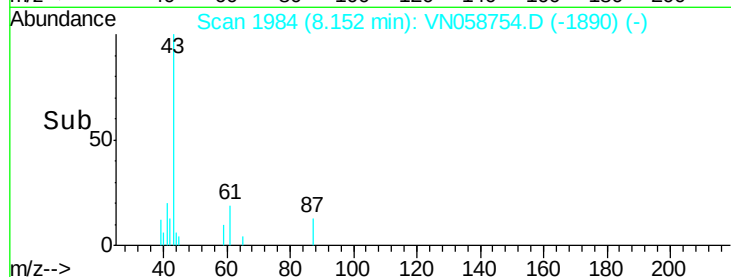
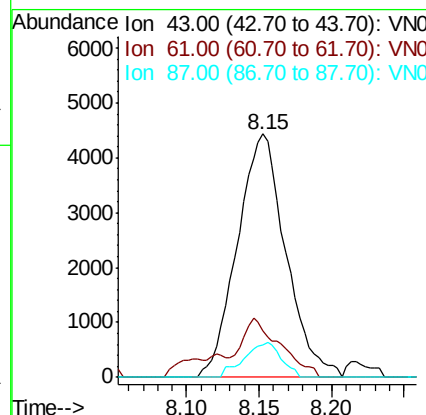
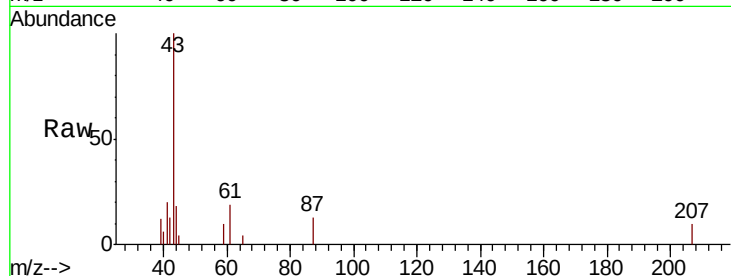
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	43	Resp:	10296
Ion	Ratio	Lower	Upper
43	100		
61	19.2	20.3	30.5#
87	10.9	9.8	14.6

Manual Integrations
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10/16/2019 12:57:10 AM



#44

Trichloroethene

Concen: 0.945 ug/l

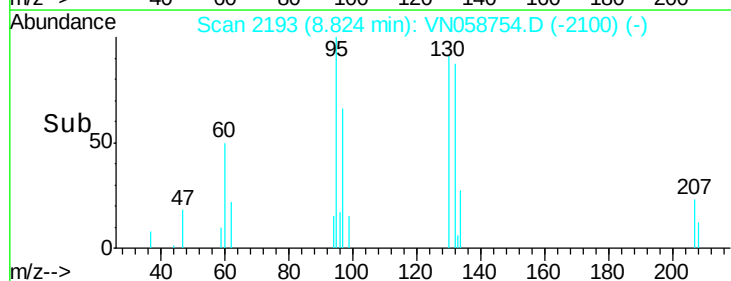
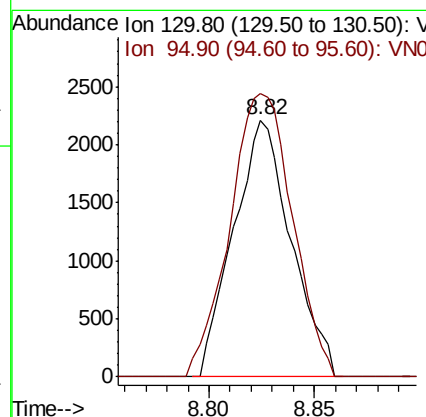
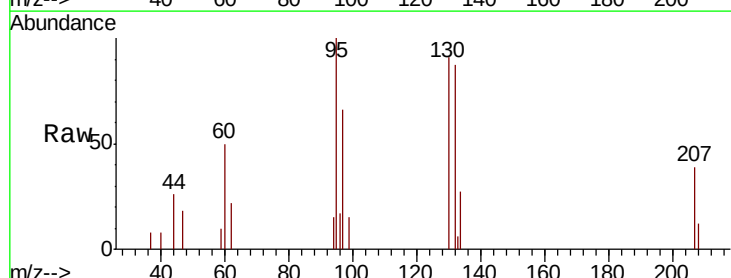
RT: 8.82 min Scan# 2193

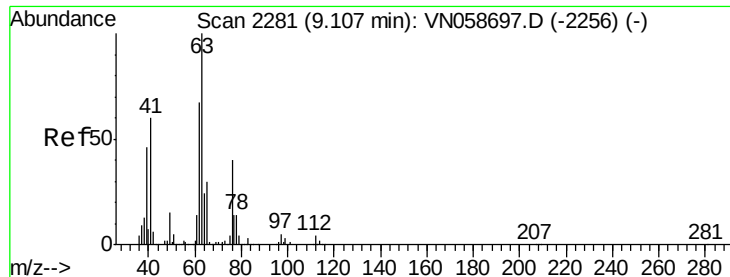
Delta R.T. -0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Tgt Ion:	130	Resp:	4204
Ion	Ratio	Lower	Upper
130	100		
95	110.2	0.0	211.2





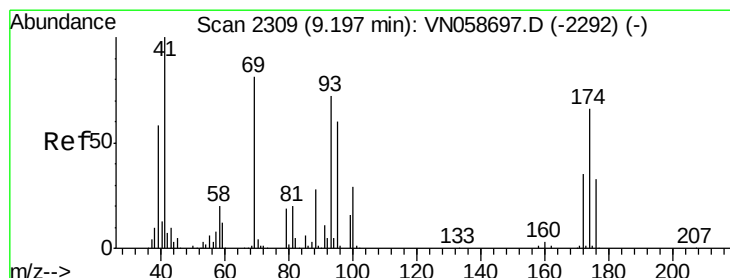
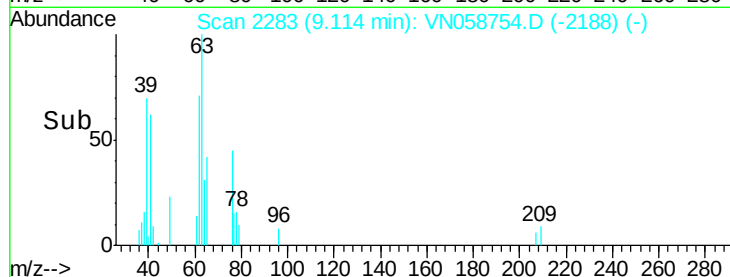
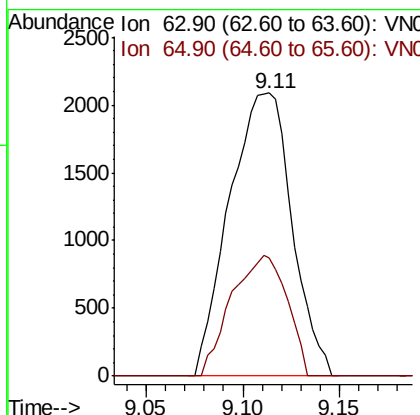
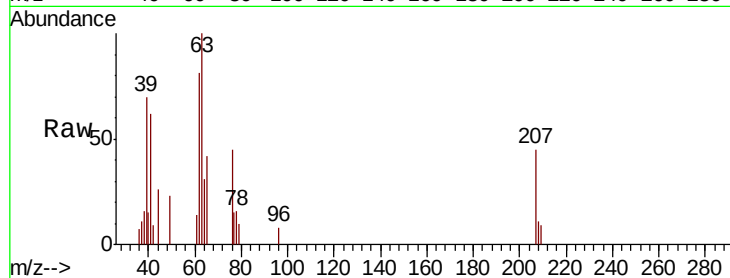
#45
 1,2-Dichloropropane
 Concen: 0.977 ug/l
 RT: 9.11 min Scan# 2283
 Delta R.T. 0.01 min
 Lab File: VN058754.D
 Acq: 14 Oct 2019 17:17

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion: 63 Resp: 4687
 Ion Ratio Lower Upper
 63 100
 65 41.7 24.1 36.1#

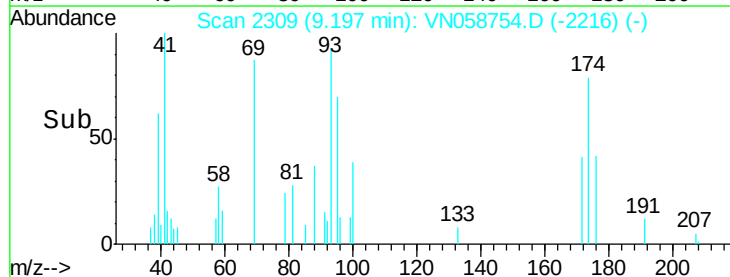
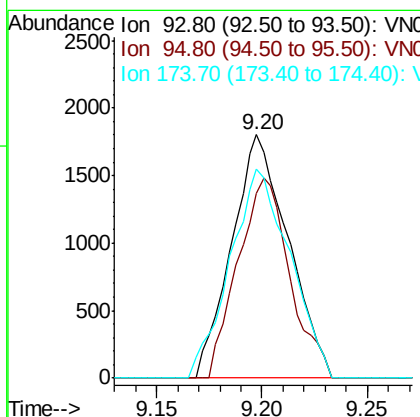
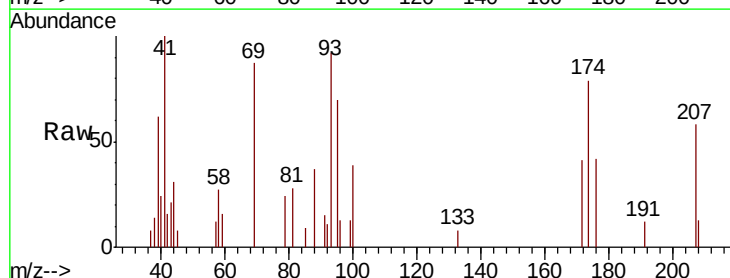
Manual Integrations
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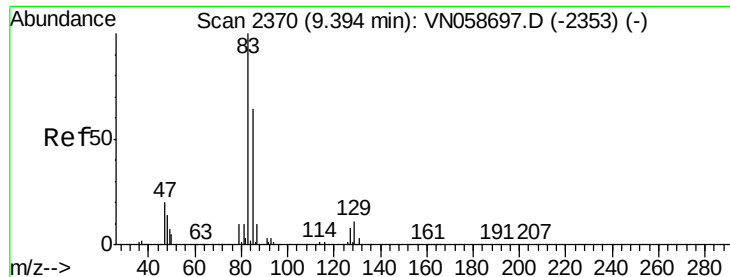
MMDadoda
 10/16/2019 12:57:10 AM



#46
 Dibromomethane
 Concen: 1.101 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. -0.00 min
 Lab File: VN058754.D
 Acq: 14 Oct 2019 17:17

Tgt Ion: 93 Resp: 3349
 Ion Ratio Lower Upper
 93 100
 95 75.3 66.6 100.0
 174 91.3 75.2 112.8





#47

Bromodichloromethane

Concen: 0.968 ug/l

RT: 9.40 min Scan# 2371

Delta R.T. 0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Instrument :

MSVOA_N

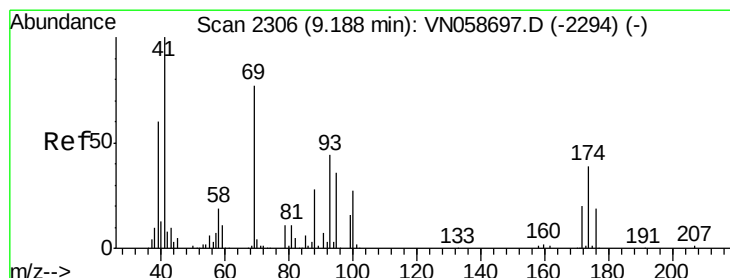
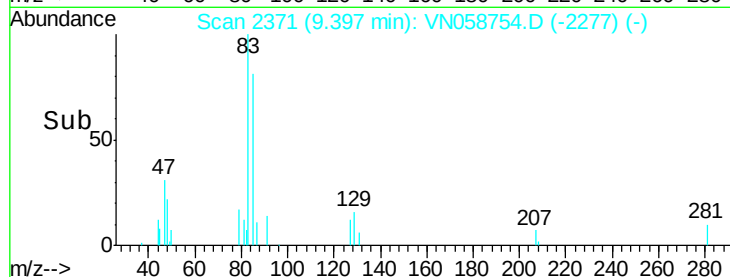
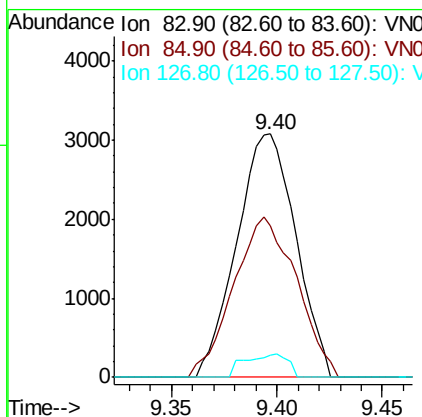
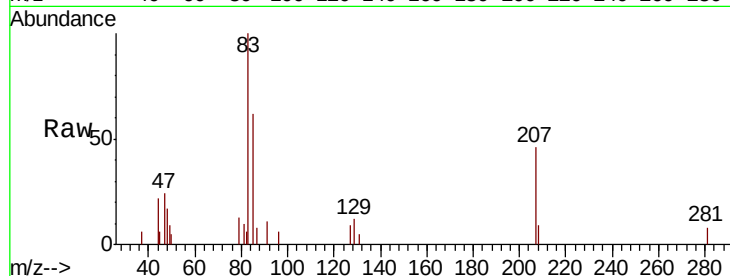
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	83	Resp:	5995
Ion	Ratio	Lower	Upper
83	100		
85	62.1	50.9	76.3
127	9.0	6.3	9.5

Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:57:10 AM



#48

Methyl methacrylate

Concen: 1.042 ug/l

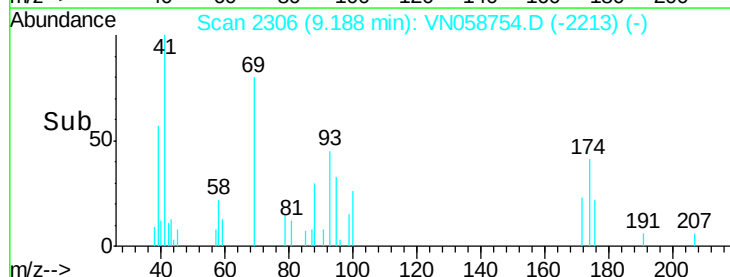
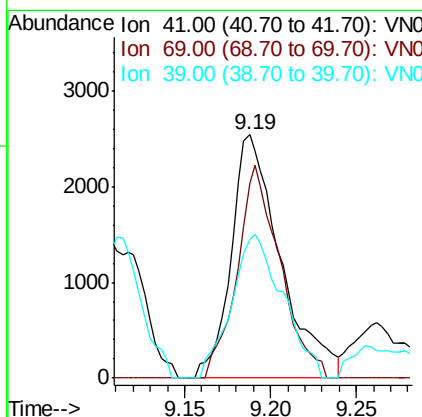
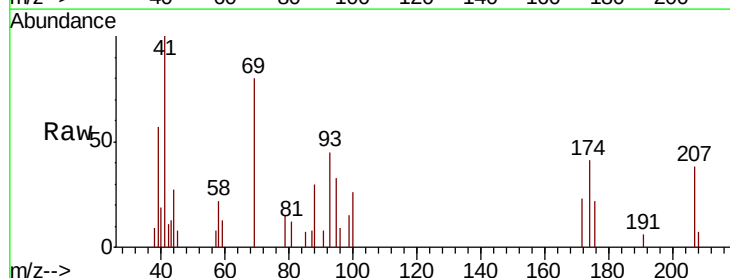
RT: 9.19 min Scan# 2306

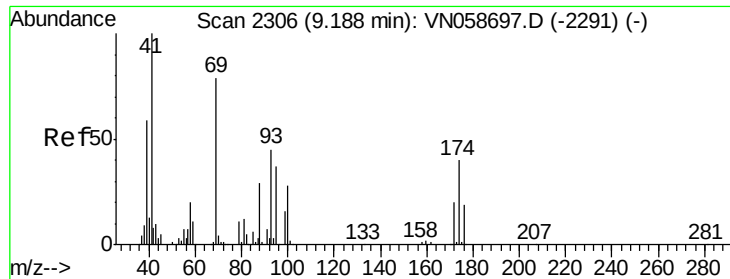
Delta R.T. -0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Tgt Ion:	41	Resp:	5079
Ion	Ratio	Lower	Upper
41	100		
69	75.9	63.4	95.2
39	61.3	48.9	73.3





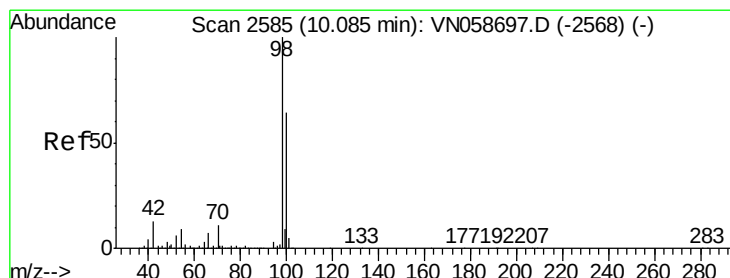
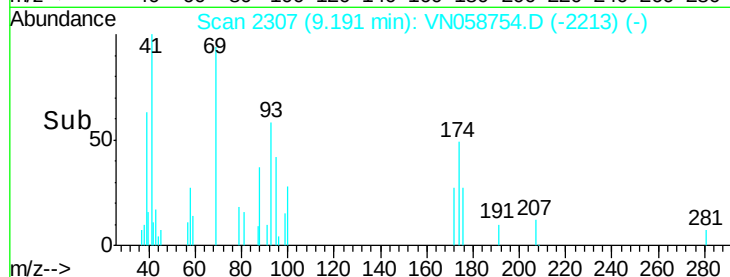
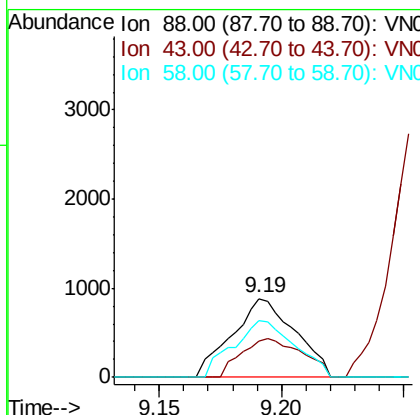
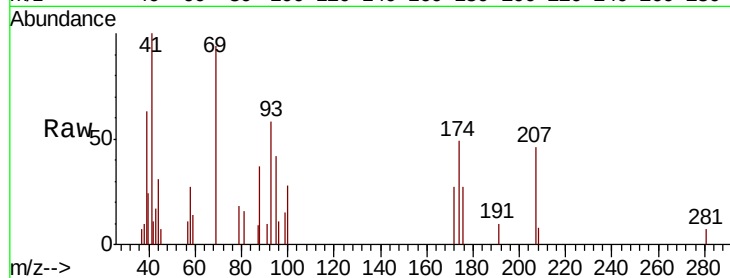
#49
1,4-Dioxane
Concen: 20.933 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. 0.00 min
Lab File: VN058754.D
Acq: 14 Oct 2019 17:17

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
88	100		
43	47.7	28.6	43.0#
58	70.1	57.2	85.8

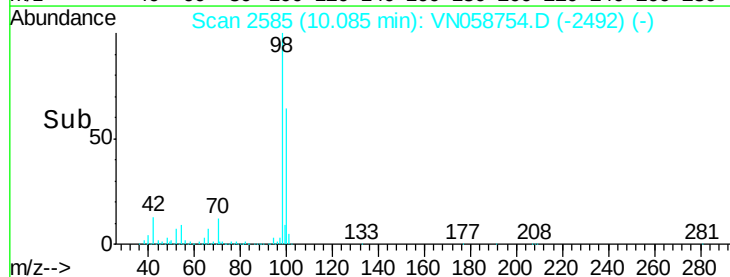
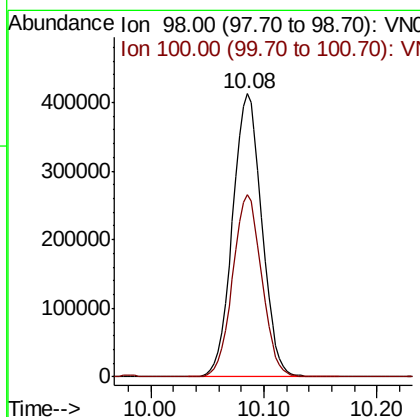
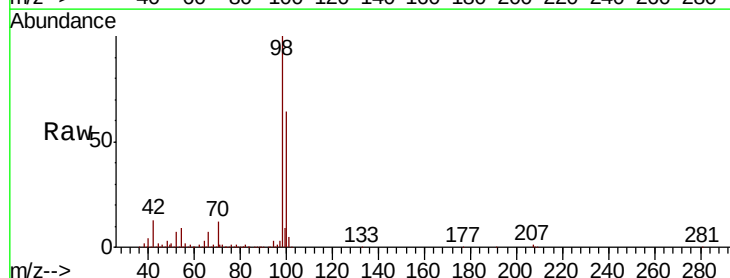
Manual Integrations
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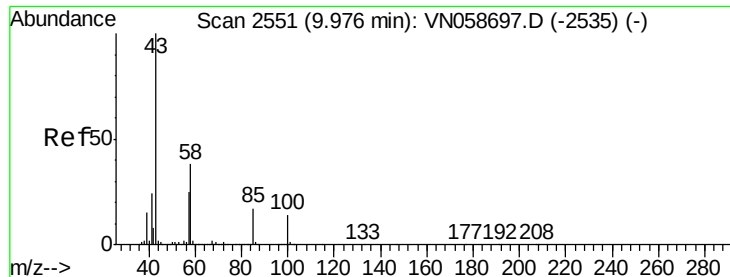
MMDadoda
10/16/2019 12:57:10 AM



#50
Toluene-d8
Concen: 48.788 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN058754.D
Acq: 14 Oct 2019 17:17

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.0	51.1	76.7





#51

4-Methyl-2-Pentanone

Concen: 4.894 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 43 Resp: 29547

Ion Ratio Lower Upper

43 100

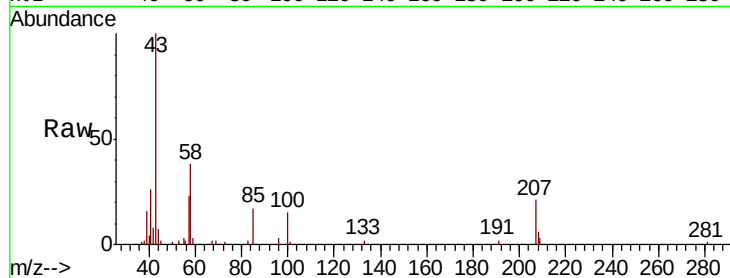
58 37.4 30.3 45.5

Manual Integrations

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MMDadoda

10/16/2019 12:57:10 AM



Abundance Ion 43.00 (42.70 to 43.70): VN058697.D (-2535) (-)

Ion 58.00 (57.70 to 58.70): VN058697.D (-2535) (-)

9.98

15000

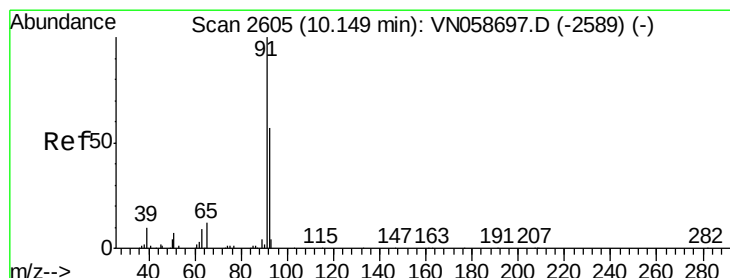
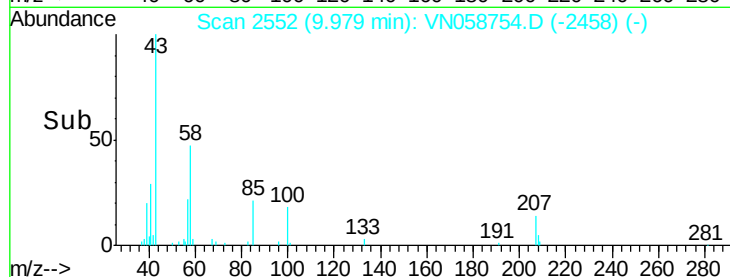
10000

5000

0

9.90 9.95 10.00 10.05

Time-->



#52

Toluene

Concen: 1.016 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN058754.D

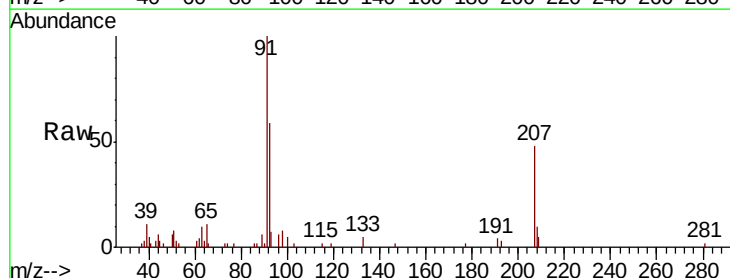
Acq: 14 Oct 2019 17:17

Tgt Ion: 92 Resp: 11136

Ion Ratio Lower Upper

92 100

91 179.3 139.1 208.7



Abundance Ion 92.00 (91.70 to 92.70): VN058697.D (-2589) (-)

Ion 91.00 (90.70 to 91.70): VN058697.D (-2589) (-)

10.15

12000

10000

8000

6000

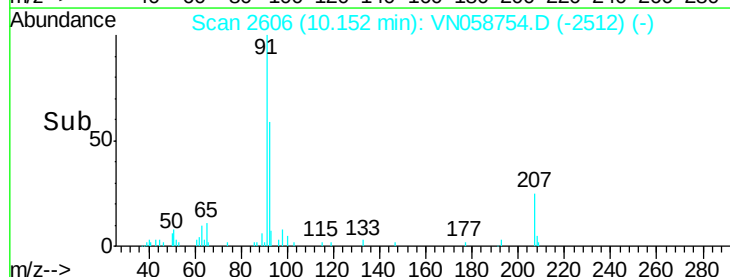
4000

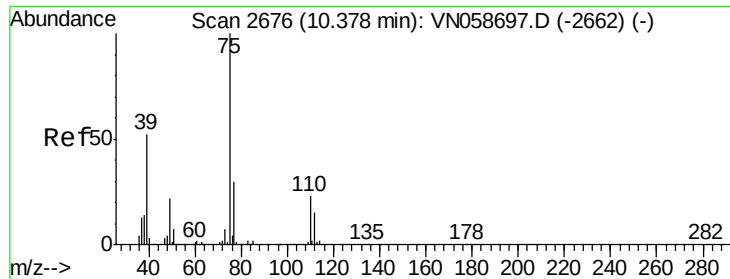
2000

0

10.10 10.15 10.20

Time-->





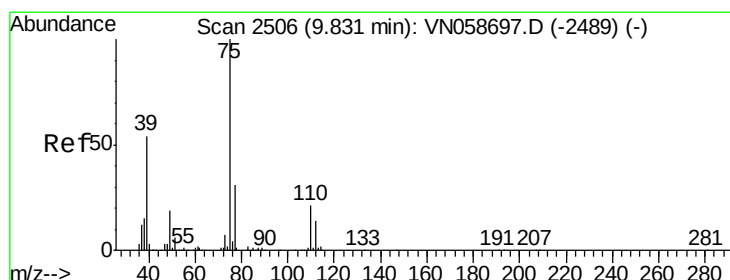
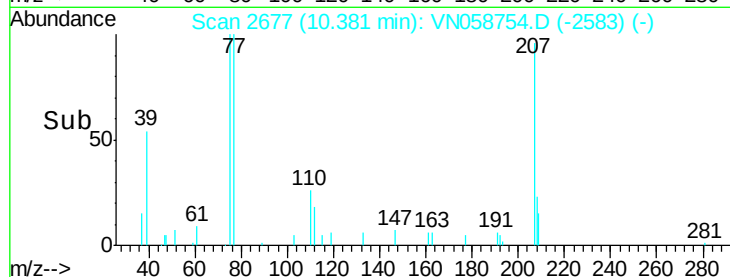
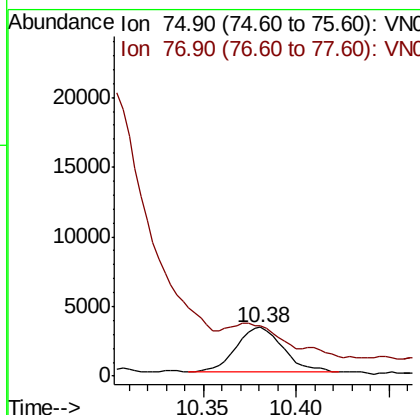
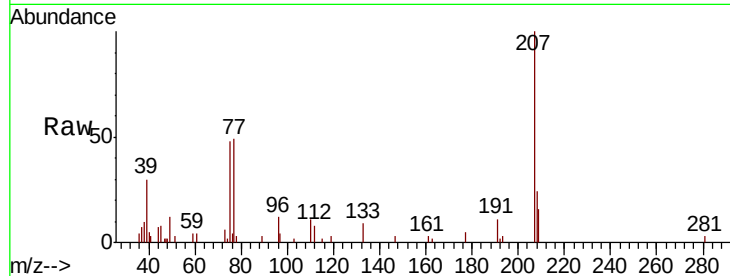
#53
t-1,3-Dichloropropene
Concen: 0.818 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN058754.D
Acq: 14 Oct 2019 17:17

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion: 75 Resp: 5808
Ion Ratio Lower Upper
75 100
77 66.1 26.2 39.4#

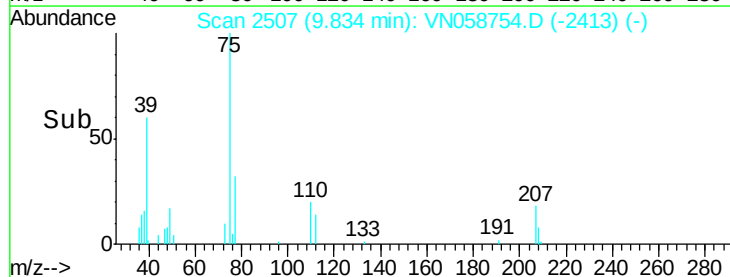
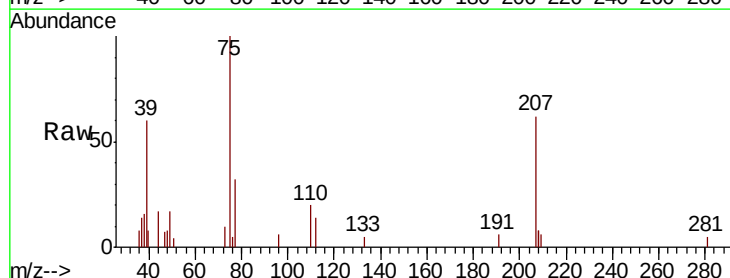
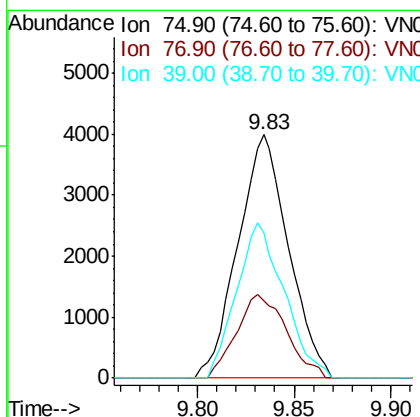
Manual Integrations
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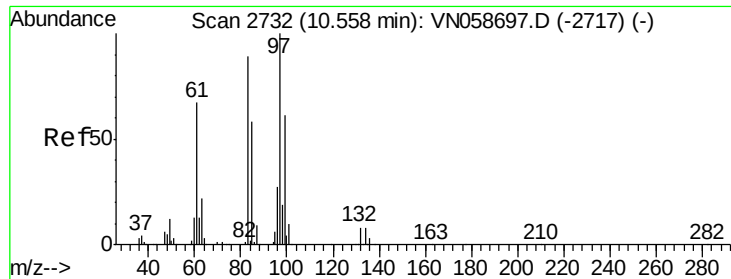
MMDadoda
10/16/2019 12:57:10 AM



#54
cis-1,3-Dichloropropene
Concen: 0.962 ug/l
RT: 9.83 min Scan# 2507
Delta R.T. 0.00 min
Lab File: VN058754.D
Acq: 14 Oct 2019 17:17

Tgt Ion: 75 Resp: 7252
Ion Ratio Lower Upper
75 100
77 31.7 24.4 36.6
39 59.7 43.1 64.7





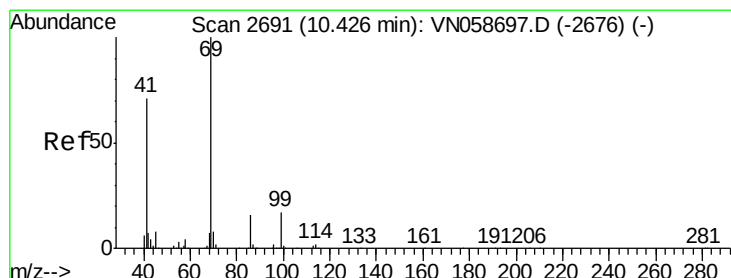
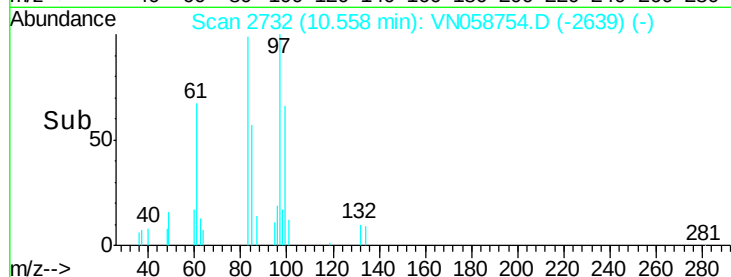
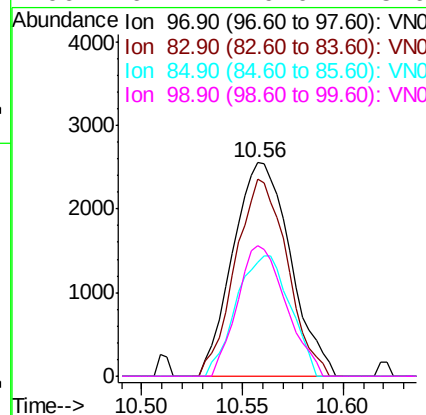
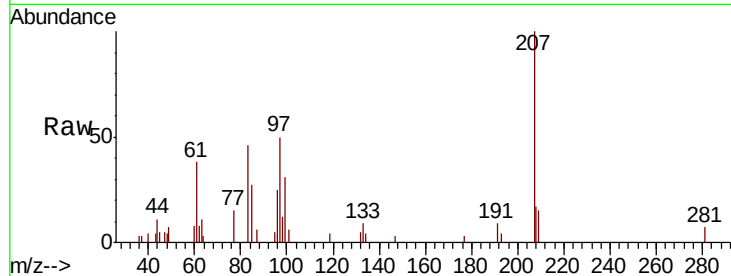
#55
 1,1,2-Trichloroethane
 Concen: 1.133 ug/l
 RT: 10.56 min Scan# 2732
 Delta R.T. -0.00 min
 Lab File: VN058754.D
 Acq: 14 Oct 2019 17:17

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion:	97	Resp:	5081
Ion	Ratio	Lower	Upper
97	100		
83	92.2	71.2	106.8
85	53.2	46.7	70.1
99	61.4	49.0	73.6

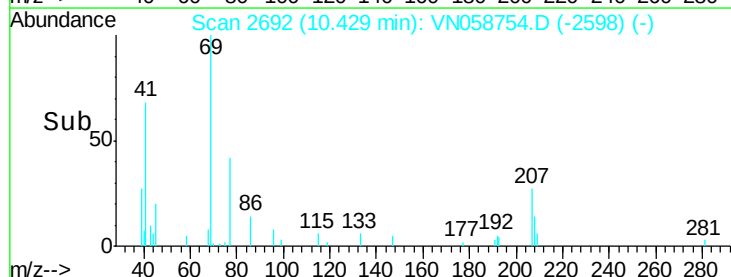
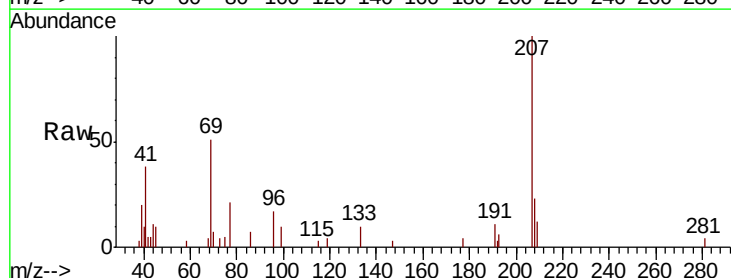
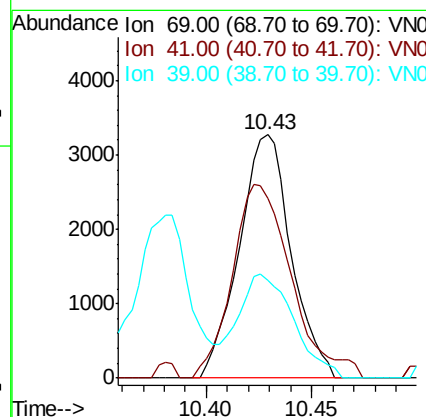
Manual Integrations
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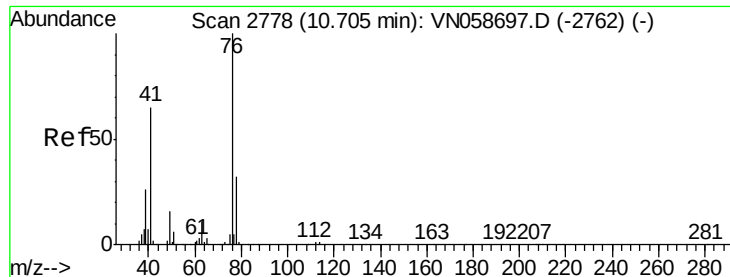
MMDadoda
 10/16/2019 12:57:10 AM



#56
 Ethyl methacrylate
 Concen: 0.857 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN058754.D
 Acq: 14 Oct 2019 17:17

Tgt Ion:	69	Resp:	5615
Ion	Ratio	Lower	Upper
69	100		
41	90.4	56.8	85.2#
39	45.4	32.5	48.7





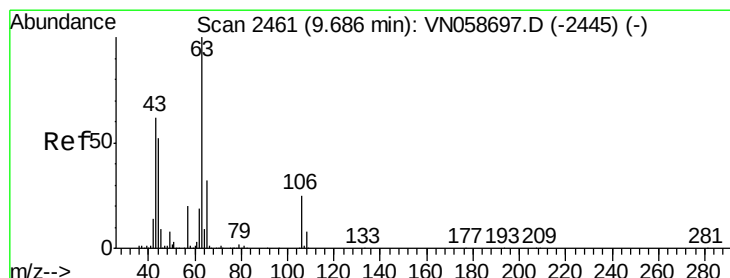
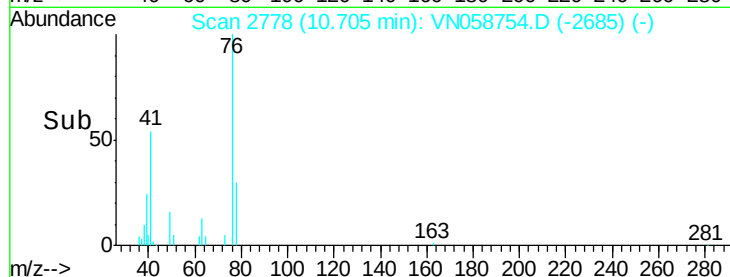
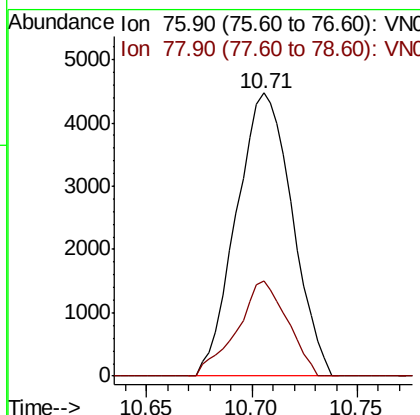
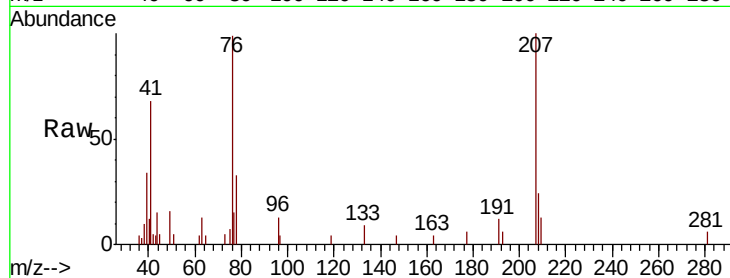
#57
 1,3-Dichloropropane
 Concen: 1.075 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. -0.00 min
 Lab File: VN058754.D
 Acq: 14 Oct 2019 17:17

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
76	100		
78	30.4	25.9	38.9

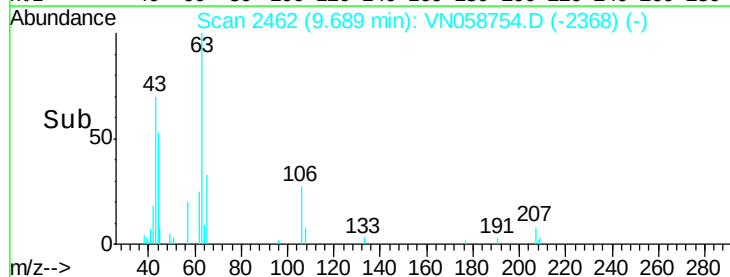
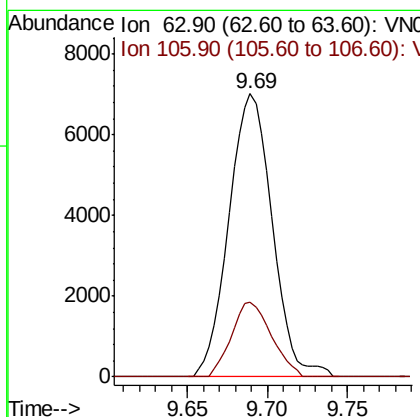
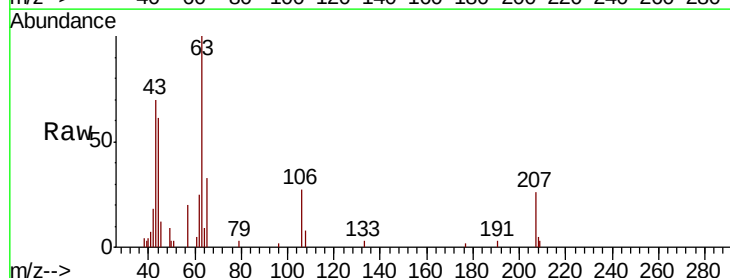
Manual Integrations
 APPROVED

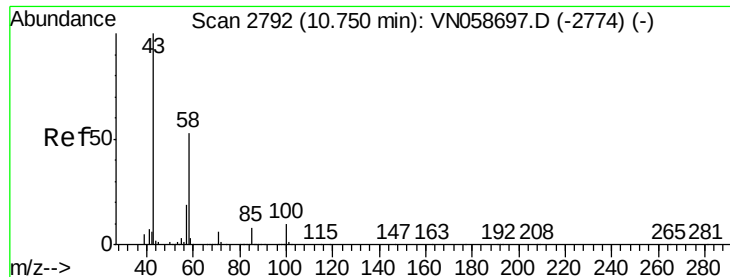
MMDadoda
 10/16/2019 12:57:10 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 4.103 ug/l
 RT: 9.69 min Scan# 2462
 Delta R.T. 0.00 min
 Lab File: VN058754.D
 Acq: 14 Oct 2019 17:17

Tgt Ion	Ratio	Lower	Upper
63	100		
106	24.2	20.0	30.0





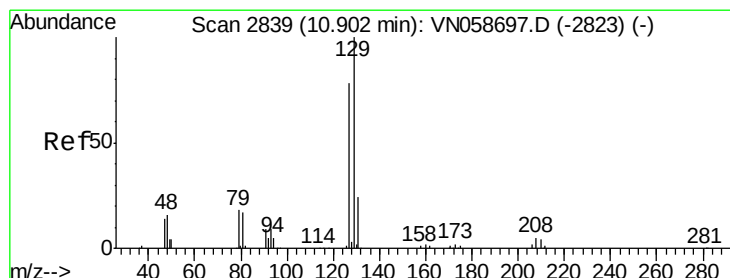
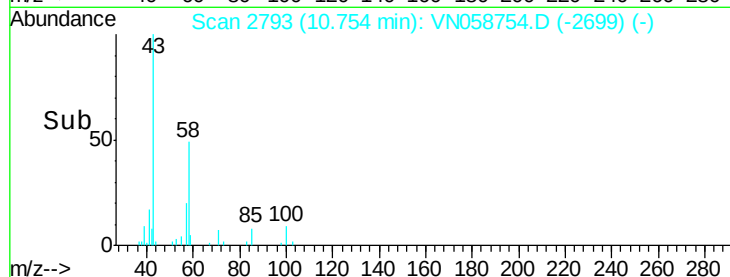
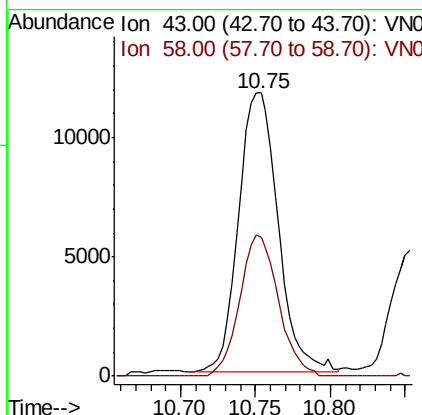
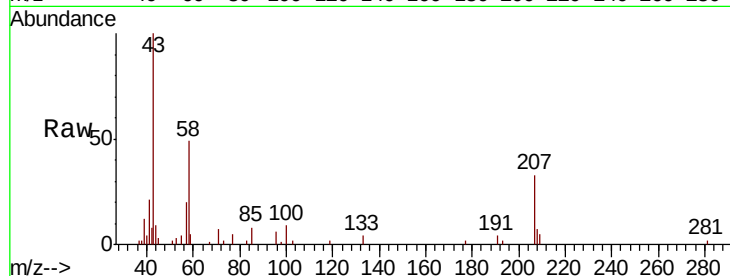
#59
2-Hexanone
Concen: 4.644 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN058754.D
Acq: 14 Oct 2019 17:17

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
43	100		
58	49.0	26.1	78.3

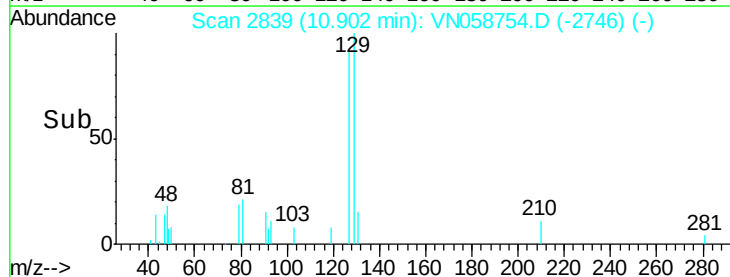
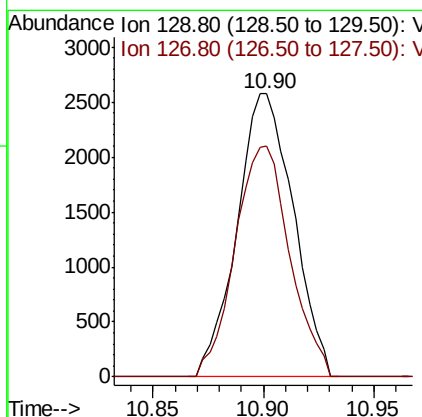
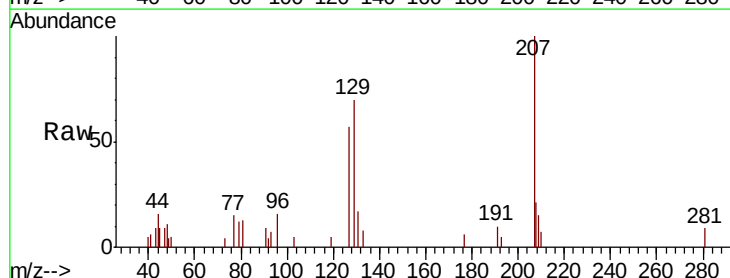
Manual Integrations
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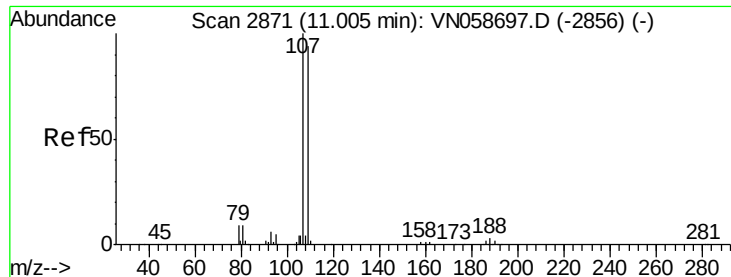
MMDadoda
10/16/2019 12:57:10 AM



#60
Dibromochloromethane
Concen: 0.983 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN058754.D
Acq: 14 Oct 2019 17:17

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.5	38.5	115.3





#61

1,2-Dibromoethane

Concen: 1.026 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 107 Resp: 4609

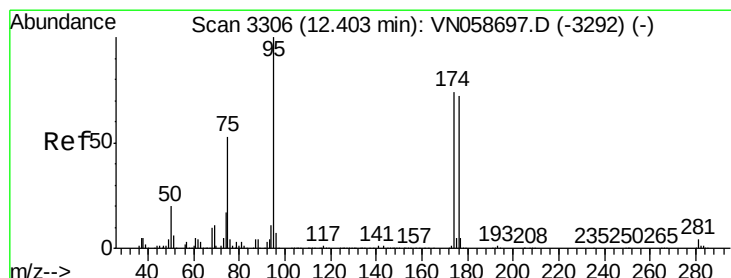
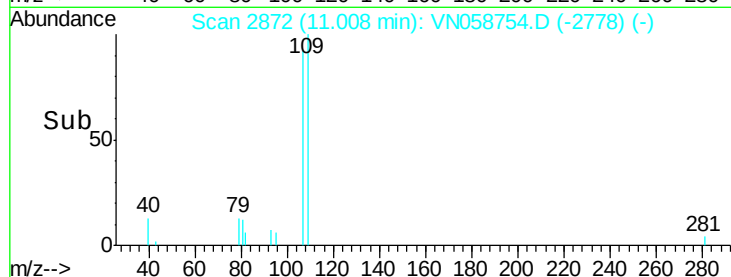
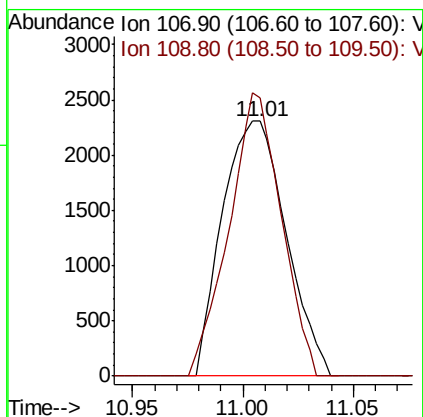
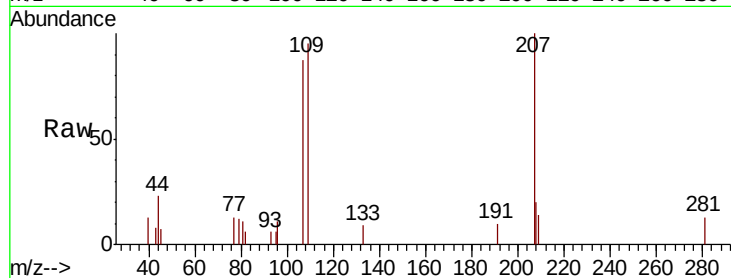
Ion Ratio Lower Upper

107 100

109 91.3 75.4 113.0

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#62

4-Bromofluorobenzene

Concen: 43.659 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

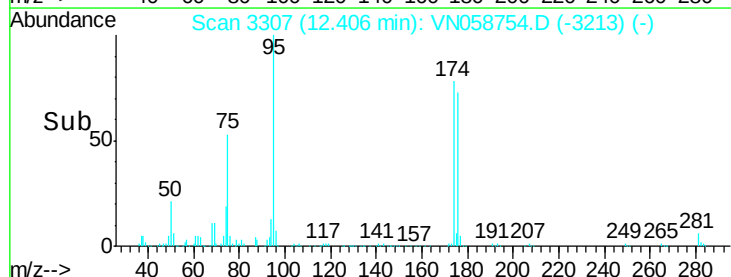
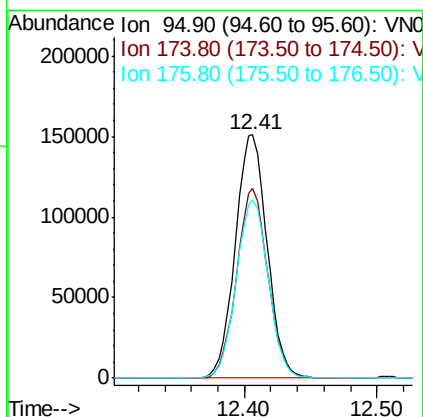
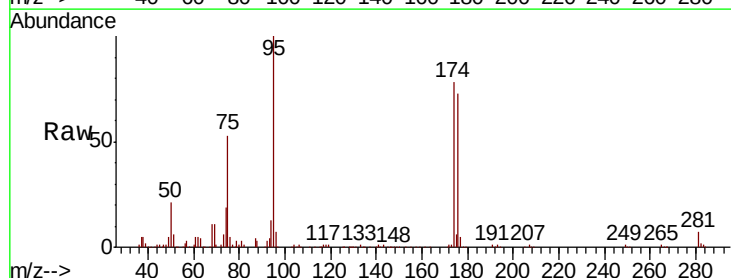
Tgt Ion: 95 Resp: 251908

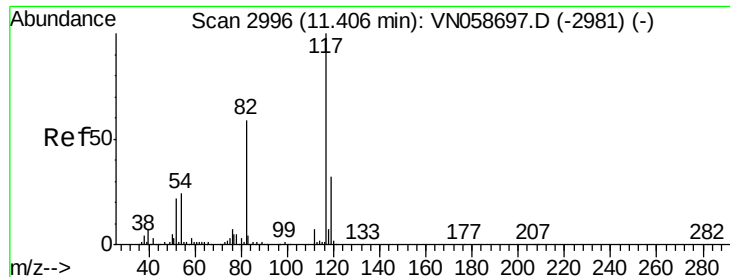
Ion Ratio Lower Upper

95 100

174 76.4 0.0 150.4

176 73.8 0.0 146.8





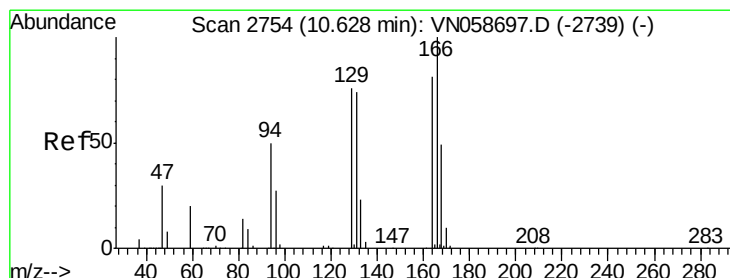
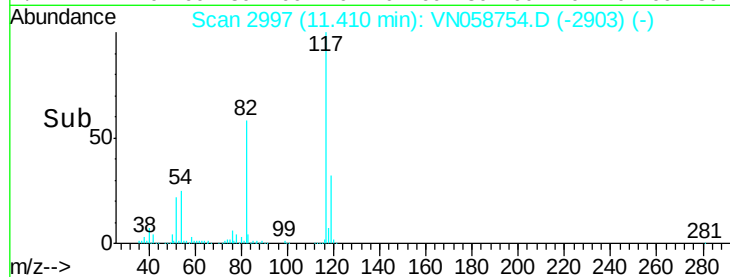
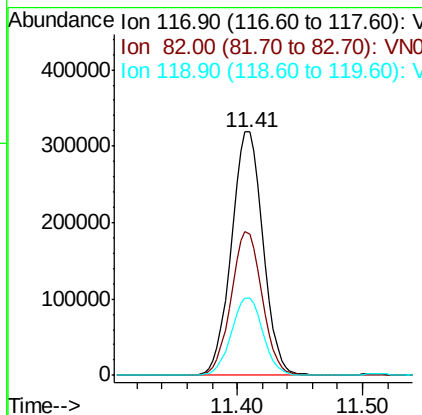
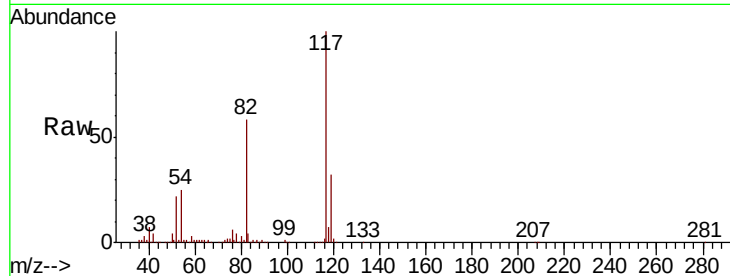
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058754.D
Acq: 14 Oct 2019 17:17

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.1	47.0	70.4
119	31.9	25.4	38.2

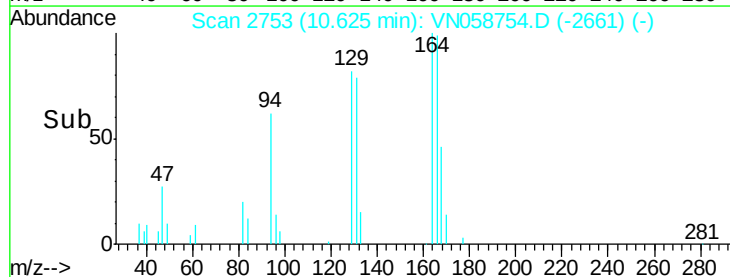
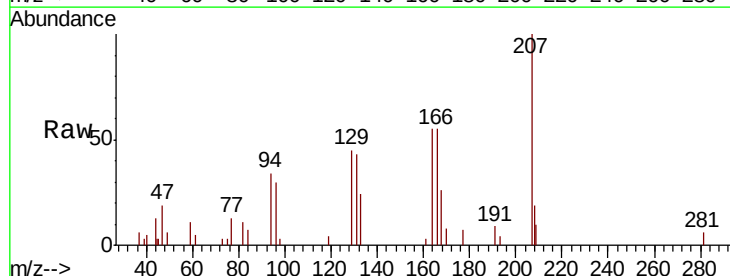
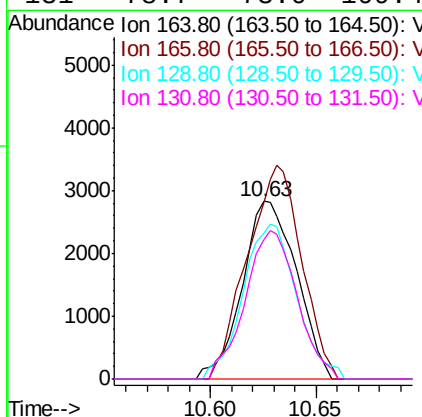
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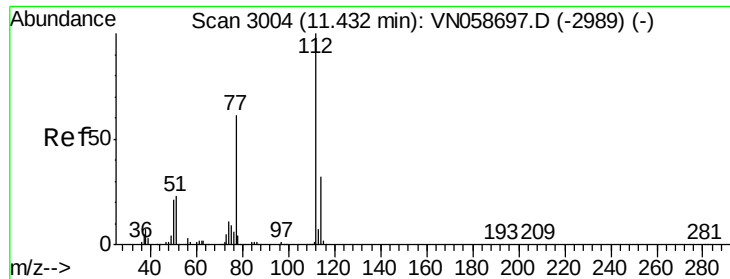
MMDadoda
10/16/2019 12:57:10 AM



#64
Tetrachloroethene
Concen: 1.292 ug/l
RT: 10.63 min Scan# 2753
Delta R.T. -0.00 min
Lab File: VN058754.D
Acq: 14 Oct 2019 17:17

Tgt Ion	Ratio	Lower	Upper
164	100		
166	99.5	99.3	148.9
129	82.3	75.2	112.8
131	78.7	73.0	109.4





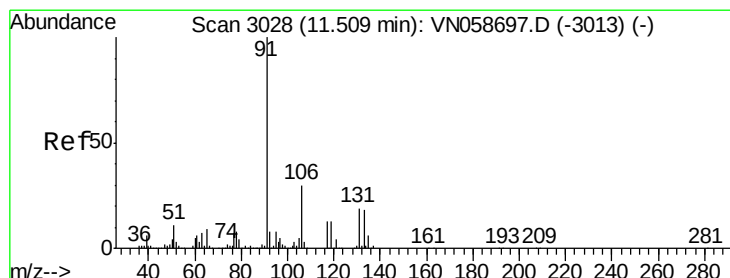
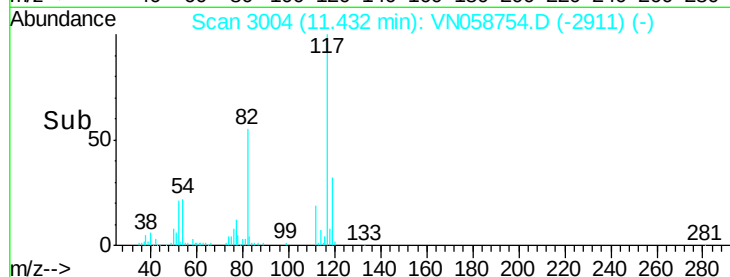
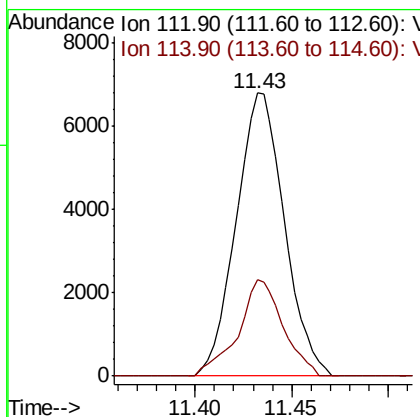
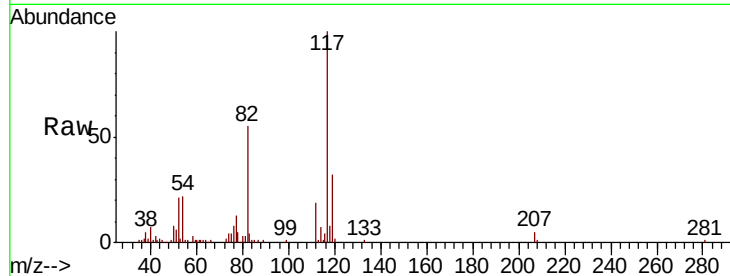
#65
Chlorobenzene
Concen: 1.039 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN058754.D
Acq: 14 Oct 2019 17:17

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion:112 Resp: 11758
Ion Ratio Lower Upper
112 100
114 33.9 25.2 37.8

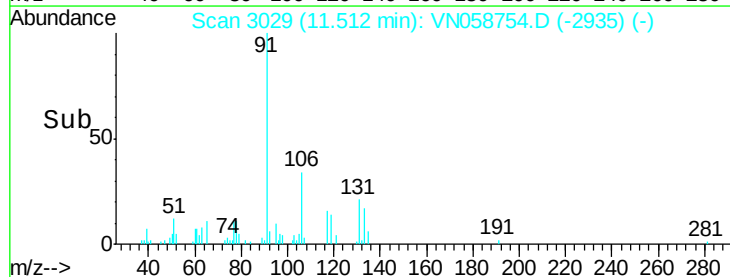
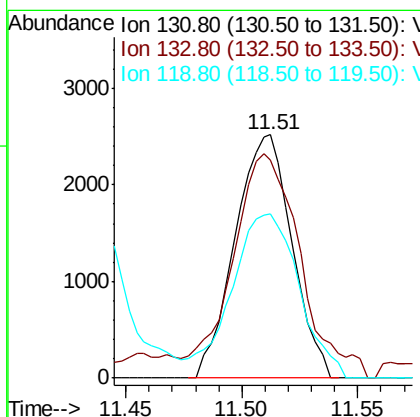
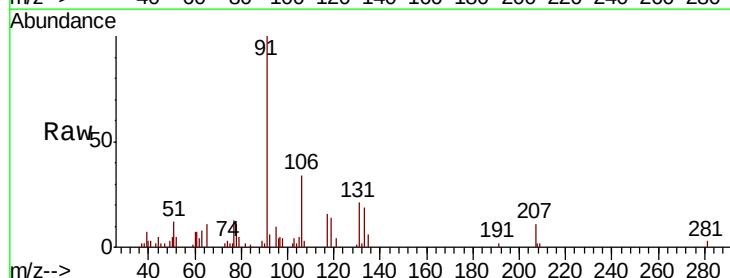
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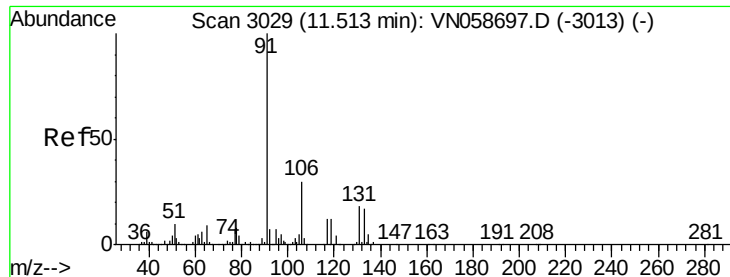
MMDadoda
10/16/2019 12:57:10 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 1.022 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN058754.D
Acq: 14 Oct 2019 17:17

Tgt Ion:131 Resp: 4278
Ion Ratio Lower Upper
131 100
133 110.4 47.6 142.9
119 0.0 33.0 98.9#





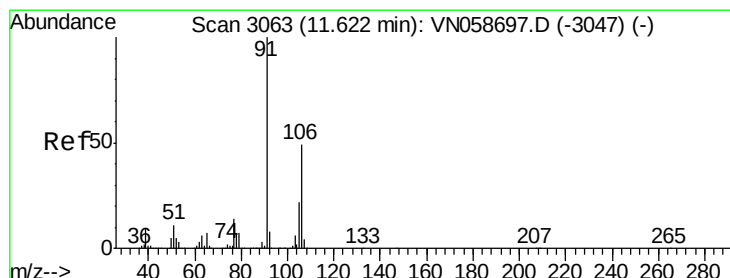
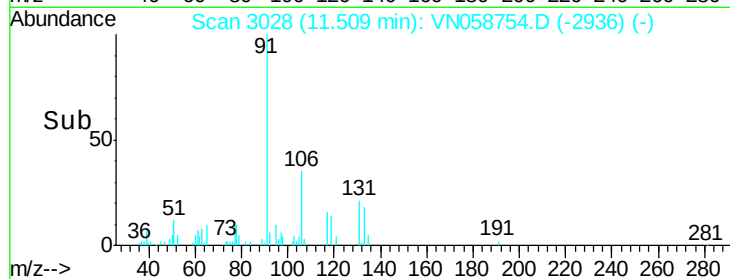
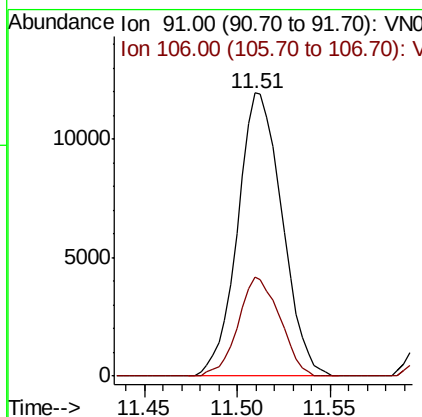
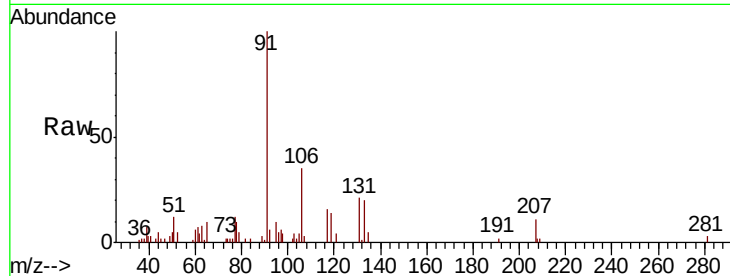
#67
Ethyl Benzene
Concen: 0.986 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN058754.D
Acq: 14 Oct 2019 17:17

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion: 91 Resp: 19896
Ion Ratio Lower Upper
91 100
106 34.8 24.1 36.1

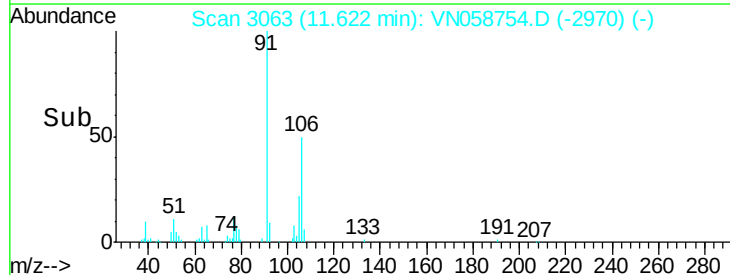
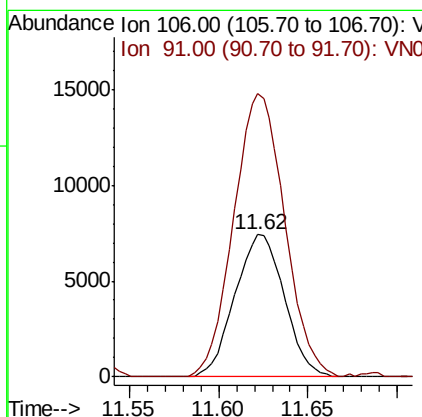
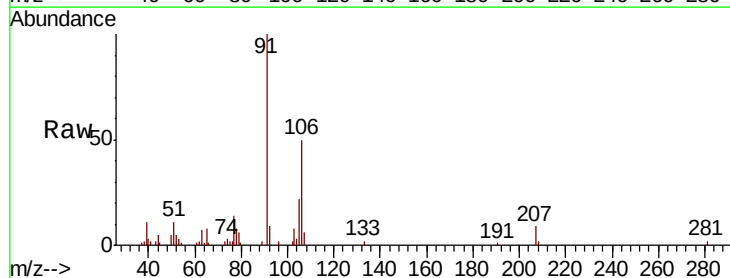
Manual Integrations
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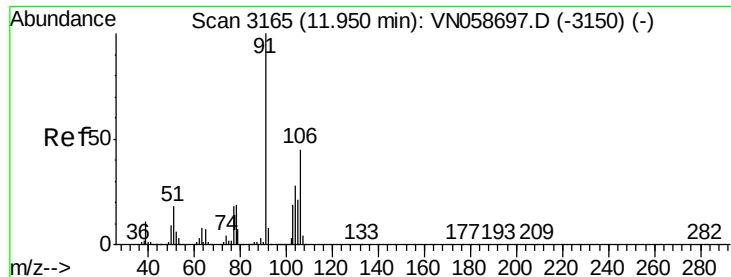
MMDadoda
10/16/2019 12:57:10 AM



#68
m/p-Xylenes
Concen: 1.895 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN058754.D
Acq: 14 Oct 2019 17:17

Tgt Ion: 106 Resp: 14346
Ion Ratio Lower Upper
106 100
91 205.5 165.7 248.5





#69

o-Xylene

Concen: 0.915 ug/l

RT: 11.95 min Scan# 3165

Delta R.T. -0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:106 Resp: 6700

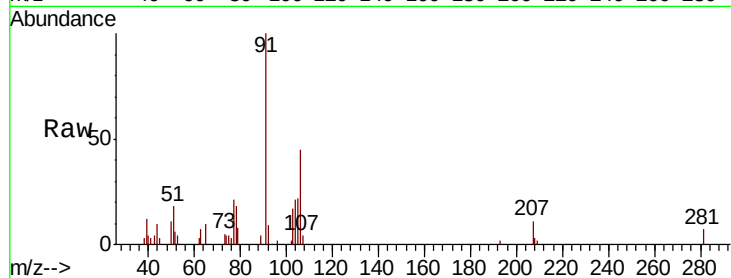
Ion Ratio Lower Upper

106 100

91 211.9 110.9 332.9

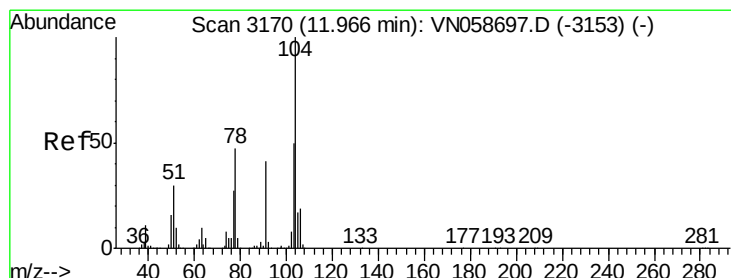
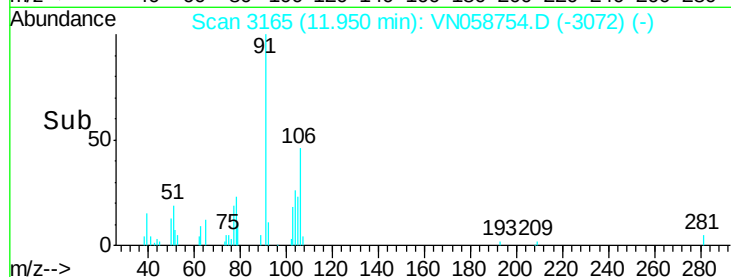
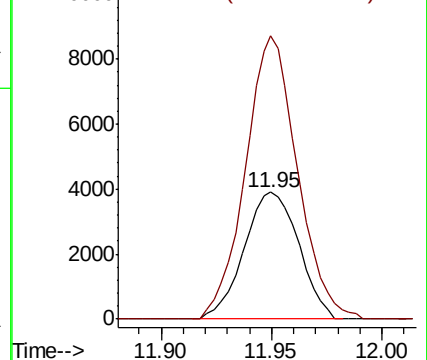
Manual Integrations
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MMDadoda
10/16/2019 12:57:10 AM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#70

Styrene

Concen: 0.853 ug/l

RT: 11.97 min Scan# 3170

Delta R.T. -0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

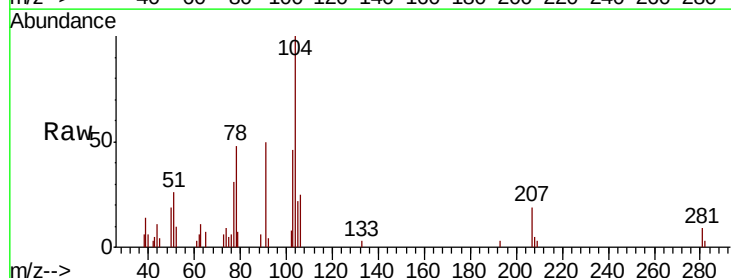
Tgt Ion:104 Resp: 10236

Ion Ratio Lower Upper

104 100

78 52.3 42.2 63.2

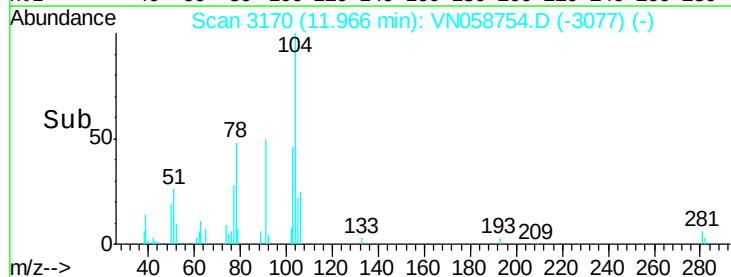
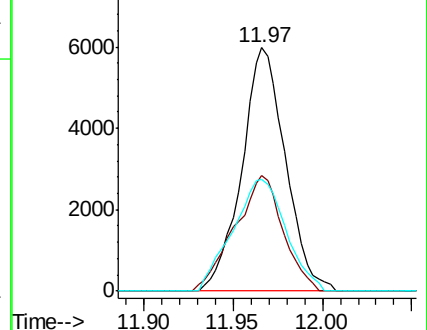
103 55.9 43.7 65.5

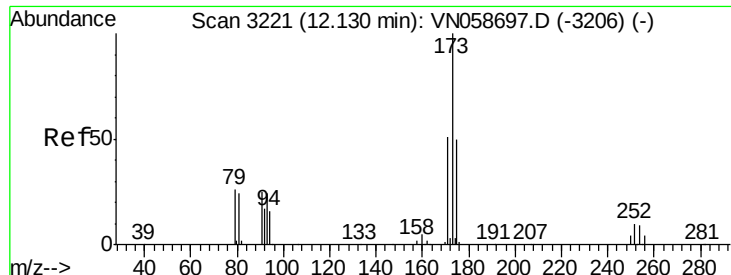


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V





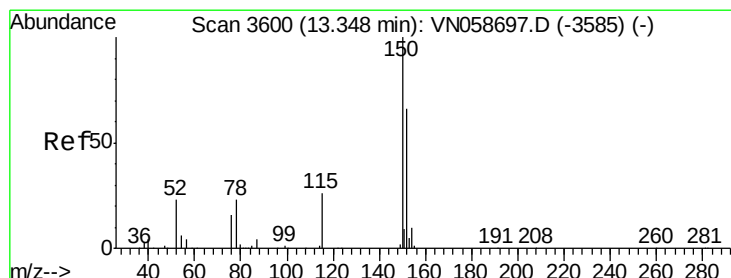
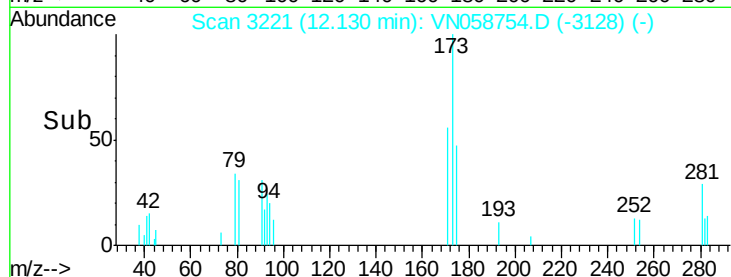
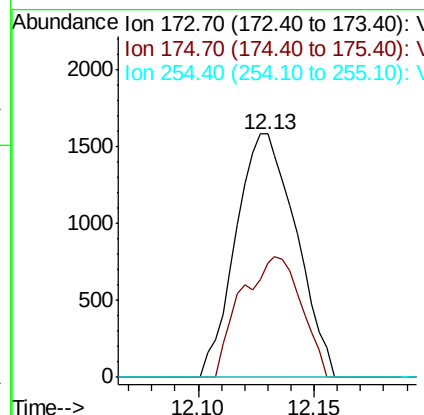
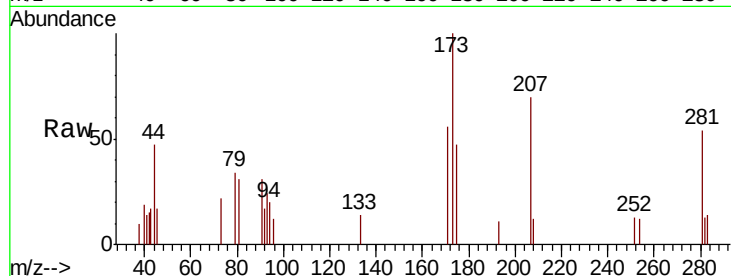
#71
Bromoform
Concen: 0.933 ug/l
RT: 12.13 min Scan# 3221
Delta R.T. -0.00 min
Lab File: VN058754.D
Acq: 14 Oct 2019 17:17

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.4	24.6	73.8
254	0.0	0.1	0.1#

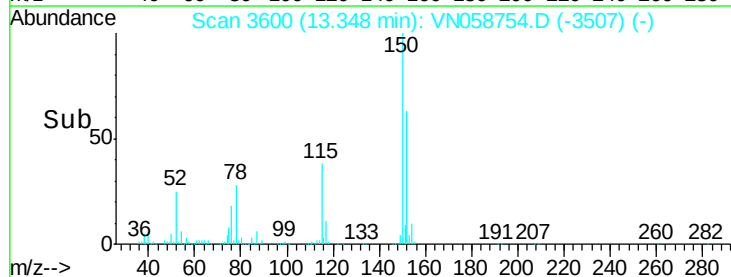
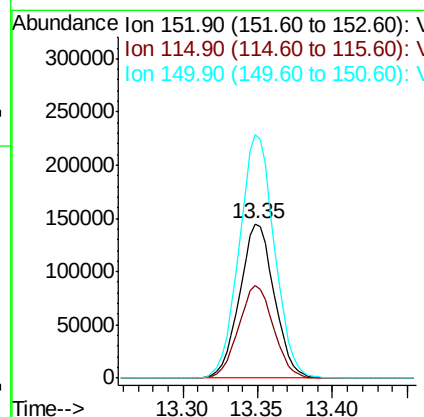
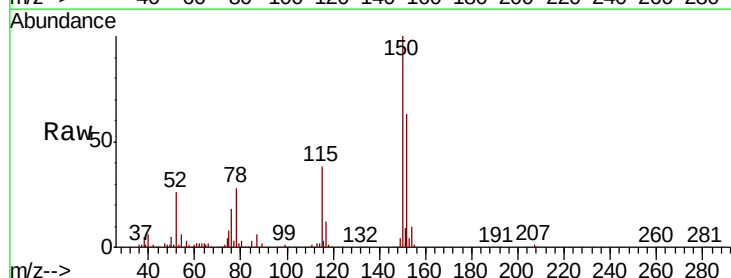
Manual Integrations
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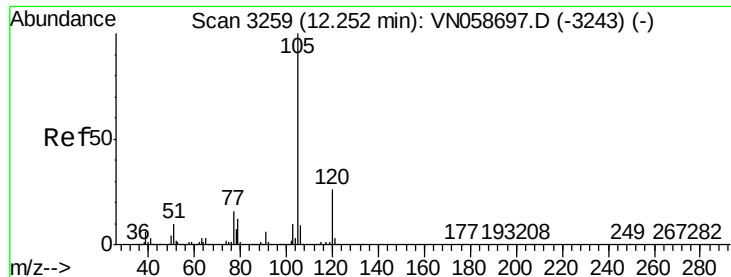
MMDadoda
10/16/2019 12:57:10 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. -0.00 min
Lab File: VN058754.D
Acq: 14 Oct 2019 17:17

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.9	30.4	91.2
150	159.7	0.0	345.4





#73

Isopropylbenzene

Concen: 1.080 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. -0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 105 Resp: 18259

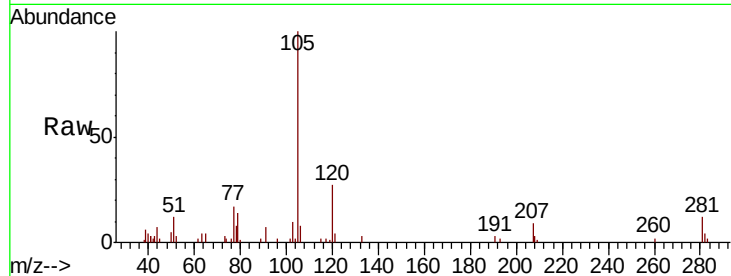
Ion Ratio Lower Upper

105 100

120 24.6 13.1 39.1

Manual Integrations
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

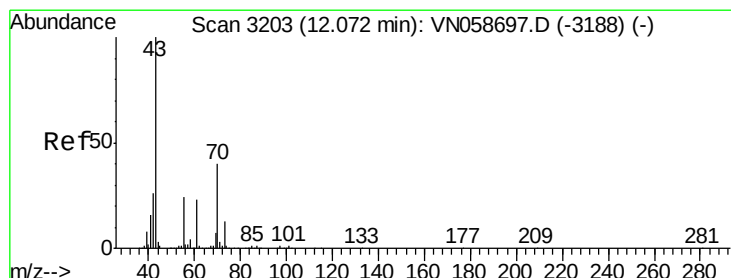
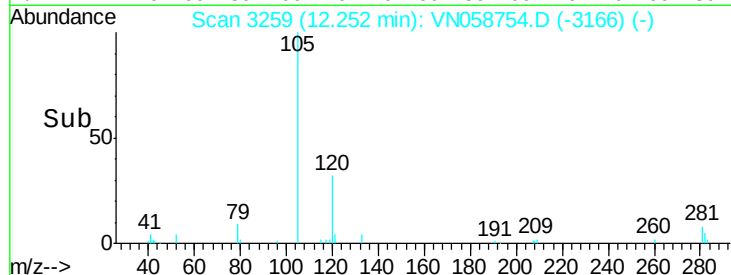
12.25

10000

5000

0

Time-->



#74

N-ethyl acetate

Concen: 0.984 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. -0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Tgt Ion: 43 Resp: 7475

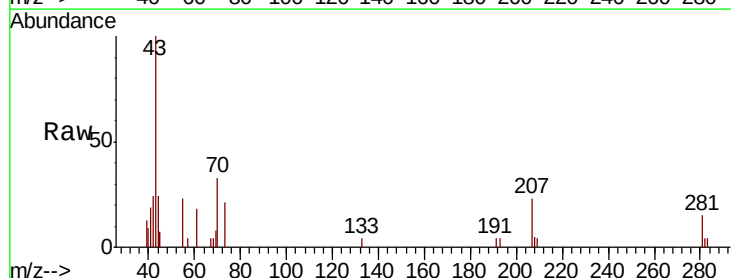
Ion Ratio Lower Upper

43 100

70 35.8 32.2 48.4

55 22.6 19.6 29.4

61 20.8 18.6 28.0



Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

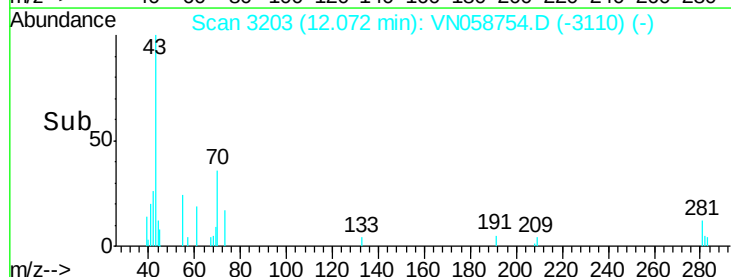
6000

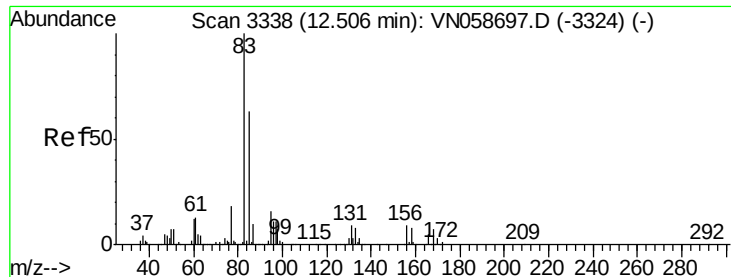
4000

2000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 1.154 ug/l

RT: 12.51 min Scan# 3339

Delta R.T. 0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Instrument :

MSVOA_N

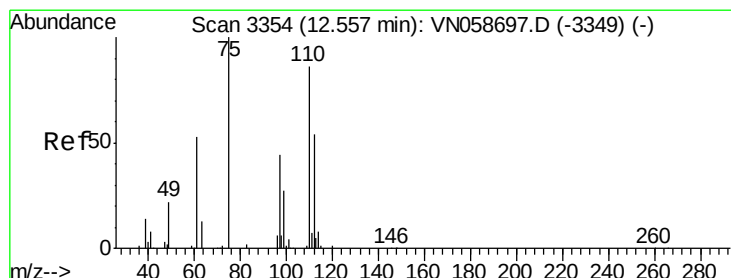
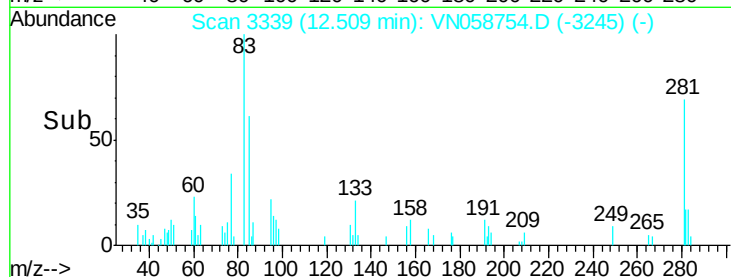
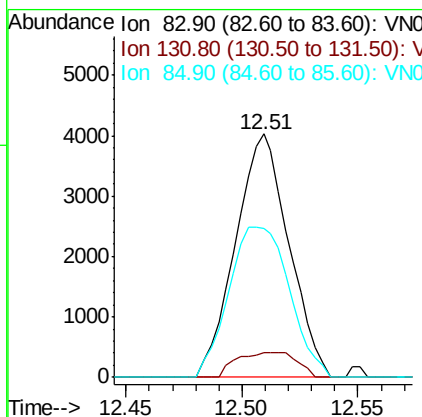
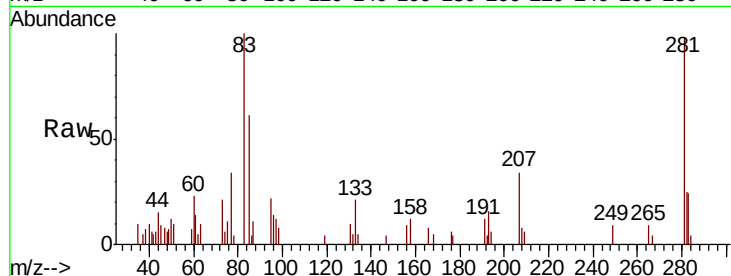
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	83	Resp:	6431
Ion Ratio	Lower	Upper	
83	100		
131	11.6	4.8	14.4
85	70.2	31.9	95.5

Manual Integrations
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10/16/2019 12:57:10 AM



#76

1,2,3-Trichloropropane

Concen: 1.217 ug/l m

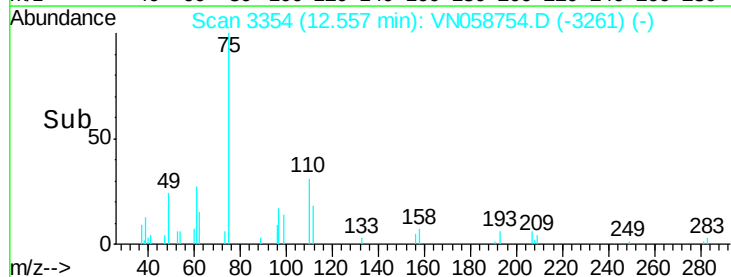
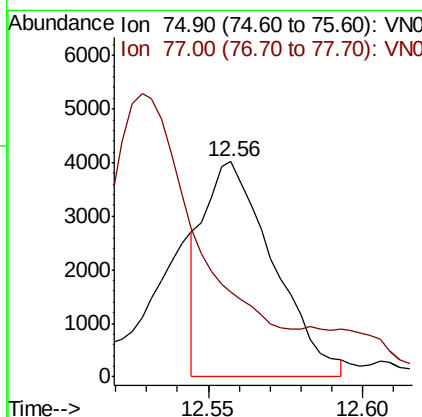
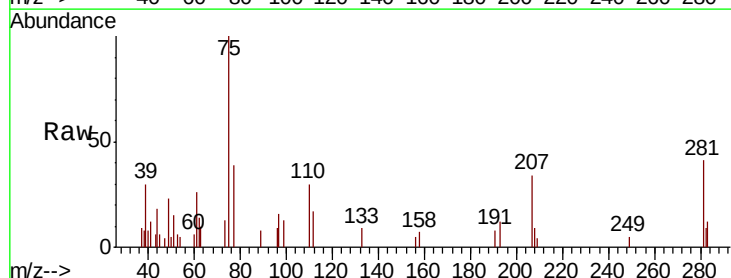
RT: 12.56 min Scan# 3354

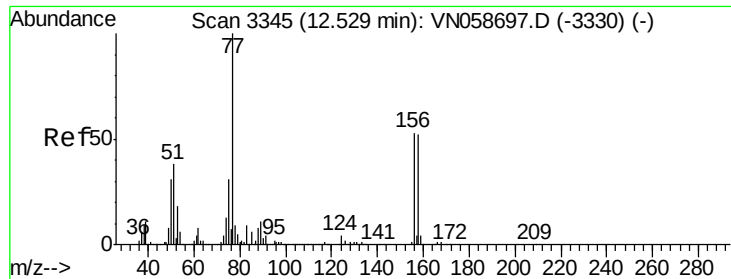
Delta R.T. -0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Tgt Ion:	75	Resp:	6235
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 1.073 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Instrument :

MSVOA_N

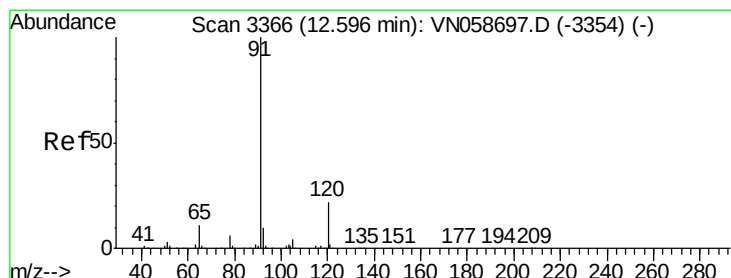
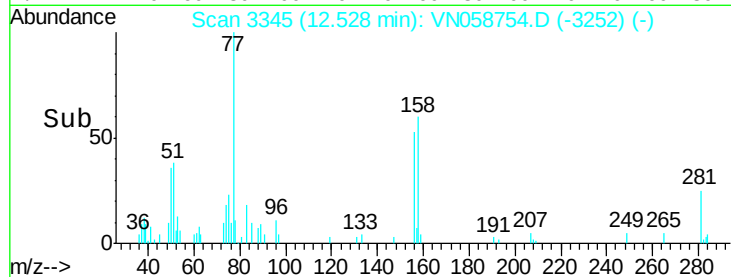
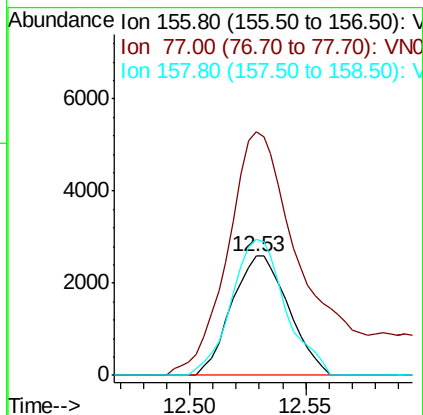
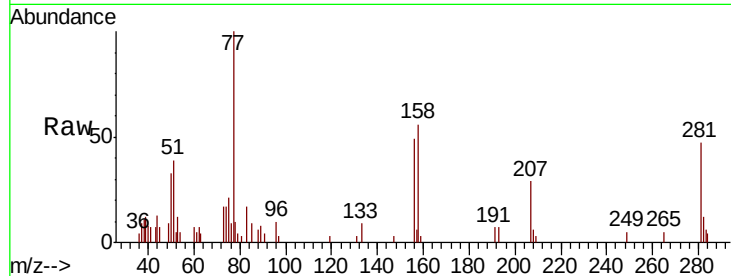
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:156 Resp: 4414
 Ion Ratio Lower Upper
 156 100
 77 263.4 115.8 347.3
 158 108.3 48.9 146.6

Manual Integrations
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#78

n-propylbenzene

Concen: 1.052 ug/l

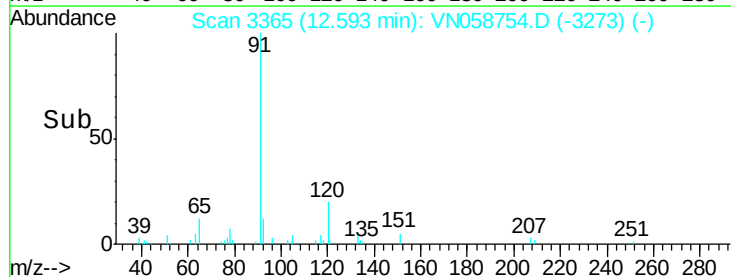
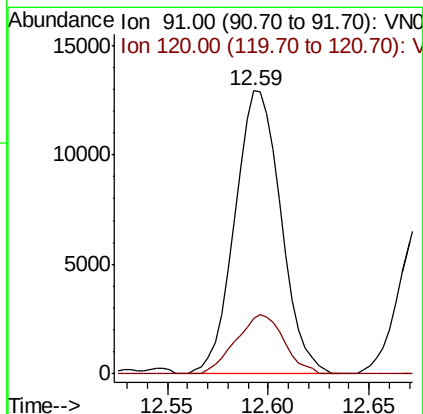
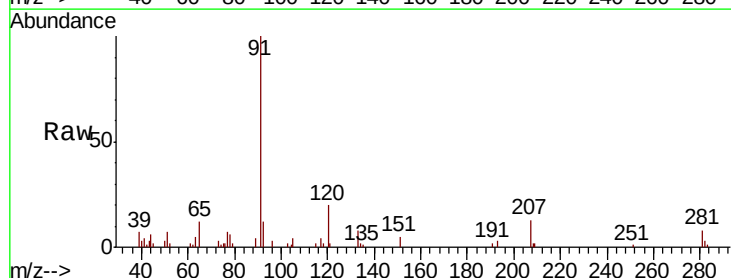
RT: 12.59 min Scan# 3365

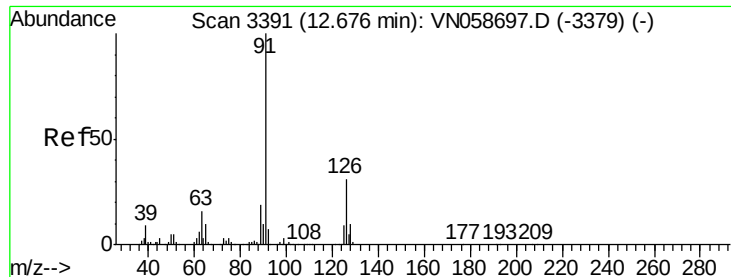
Delta R.T. -0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Tgt Ion: 91 Resp: 20723
 Ion Ratio Lower Upper
 91 100
 120 21.7 11.1 33.3





#79

2-Chlorotoluene

Concen: 1.102 ug/l

RT: 12.68 min Scan# 3392

Delta R.T. 0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 91 Resp: 13482

Ion Ratio Lower Upper

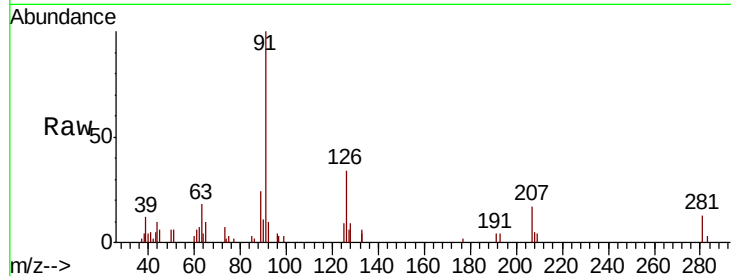
91 100

126 34.1 16.2 48.5

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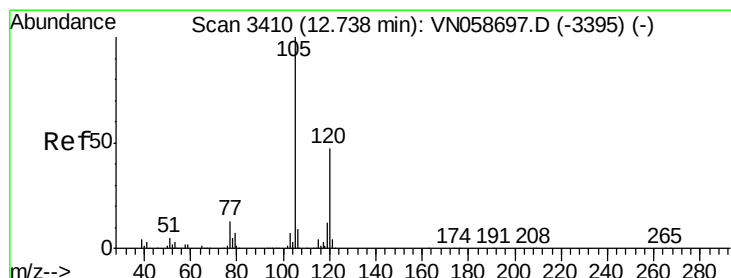
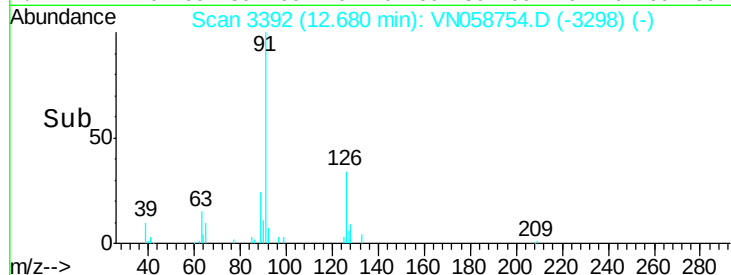
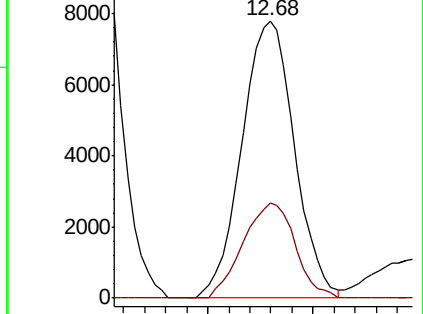
MMDadoda

10/16/2019 12:57:10 AM



Abundance Ion 91.00 (90.70 to 91.70): VN058697.D (-3379) (-)

Ion 125.90 (125.60 to 126.60): VN058697.D (-3379) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.978 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. -0.00 min

Lab File: VN058754.D

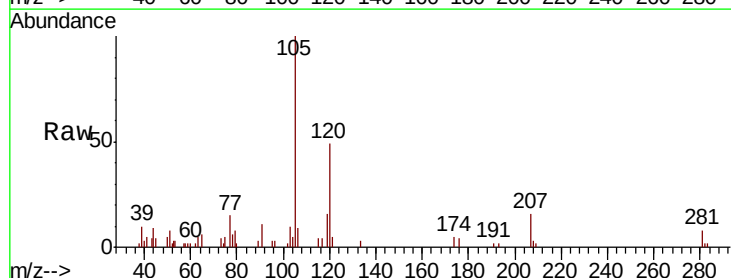
Acq: 14 Oct 2019 17:17

Tgt Ion: 105 Resp: 14114

Ion Ratio Lower Upper

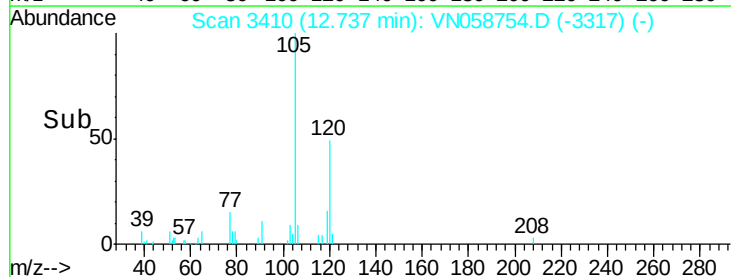
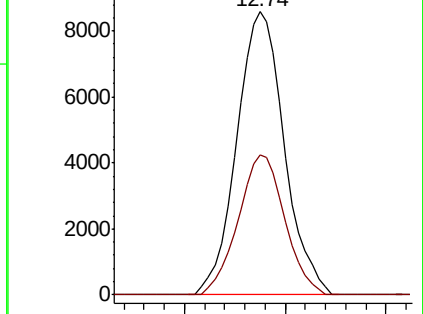
105 100

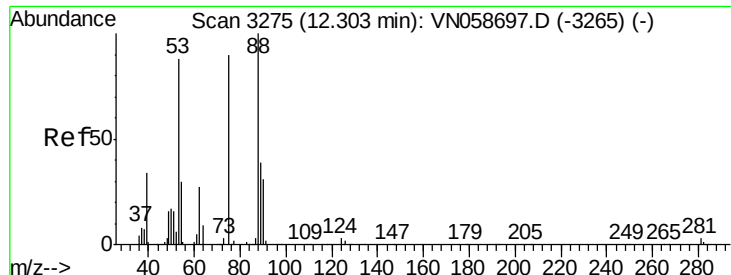
120 48.5 23.4 70.2



Abundance Ion 105.00 (104.70 to 105.70): VN058697.D (-3395) (-)

Ion 120.00 (119.70 to 120.70): VN058697.D (-3395) (-)





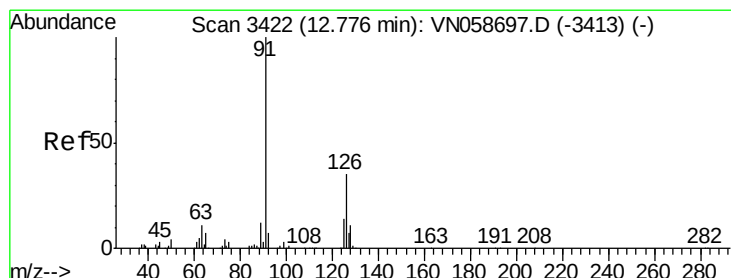
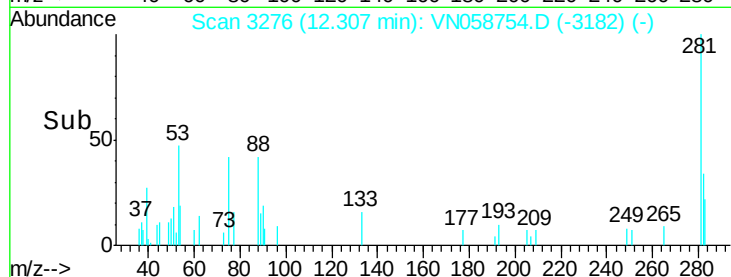
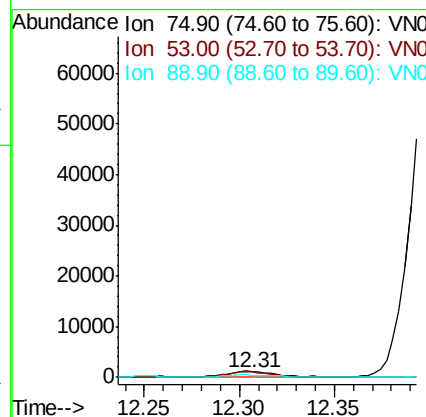
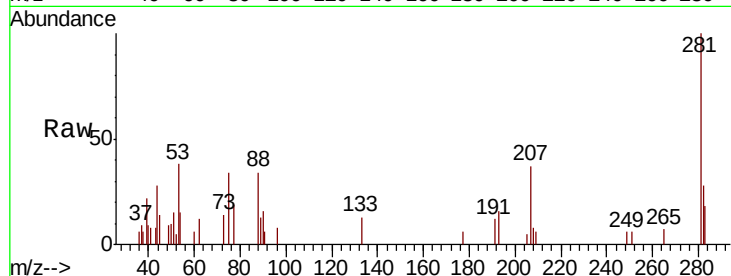
#81
trans-1,4-Dichloro-2-butene
Concen: 1.118 ug/l m
RT: 12.31 min Scan# 3276
Delta R.T. 0.00 min
Lab File: VN058754.D
Acq: 14 Oct 2019 17:17

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
75	100		
53	4.4	78.4	117.6#
89	0.0	34.9	52.3#

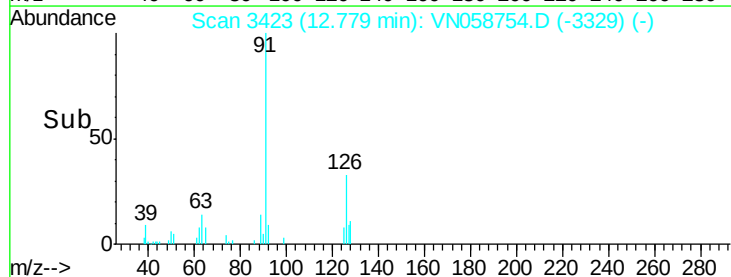
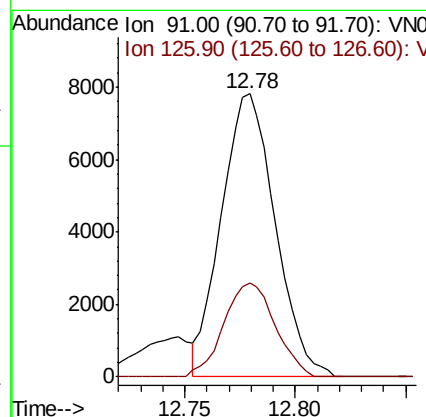
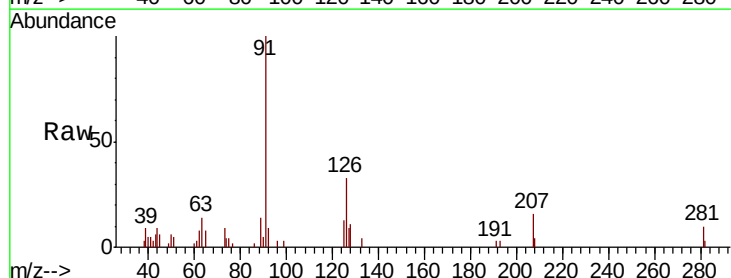
Manual Integrations
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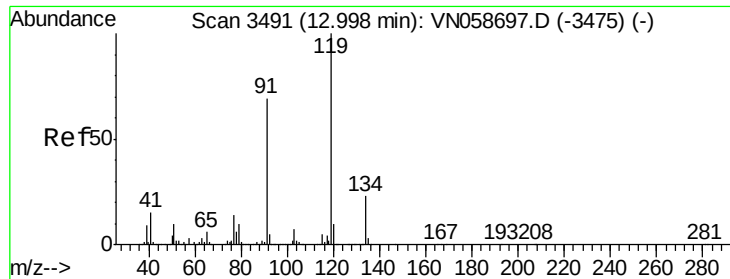
MMDadoda
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#82
4-Chlorotoluene
Concen: 1.055 ug/l
RT: 12.78 min Scan# 3423
Delta R.T. 0.00 min
Lab File: VN058754.D
Acq: 14 Oct 2019 17:17

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.5	15.9	47.6





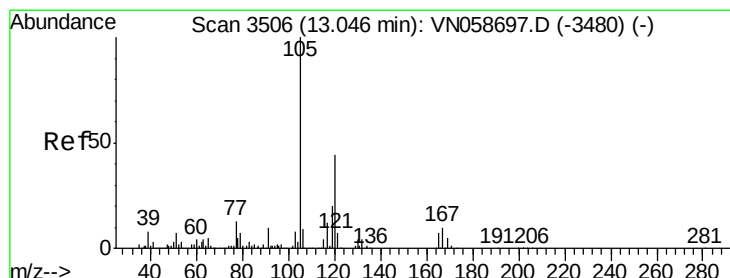
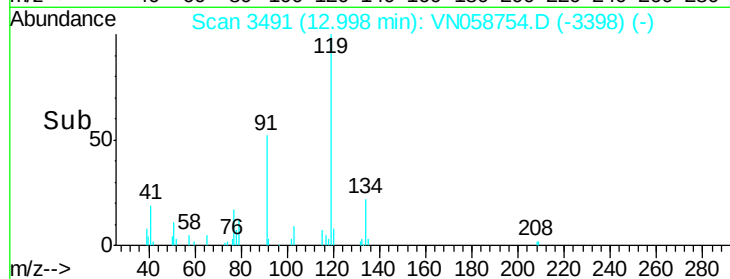
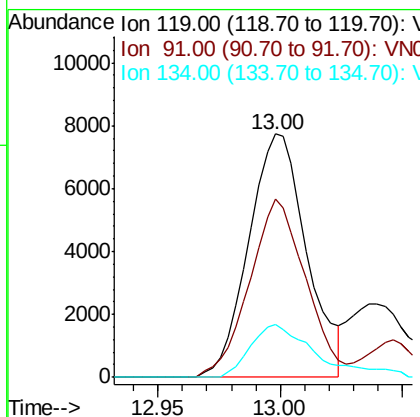
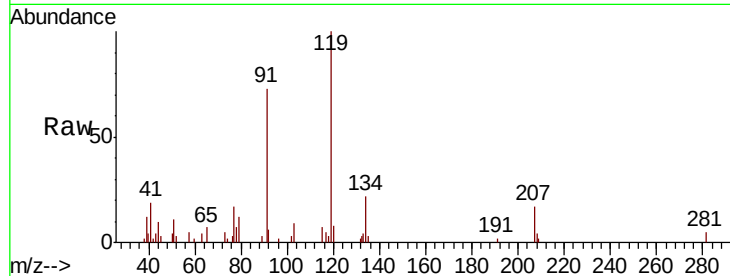
#83
 tert-Butylbenzene
 Concen: 1.029 ug/l
 RT: 13.00 min Scan# 3491
 Delta R.T. -0.00 min
 Lab File: VN058754.D
 Acq: 14 Oct 2019 17:17

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
119	100		
91	70.9	33.8	101.3
134	24.8	12.6	37.6

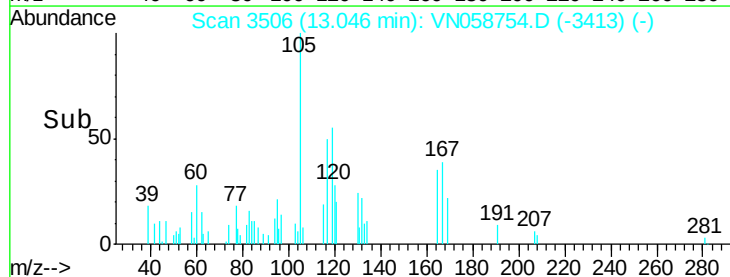
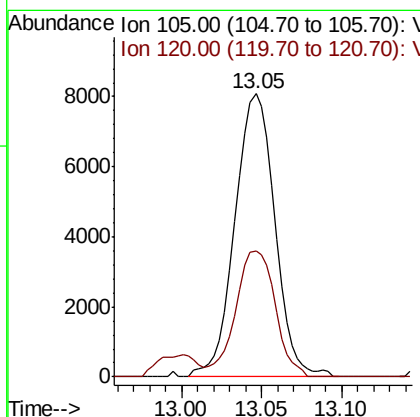
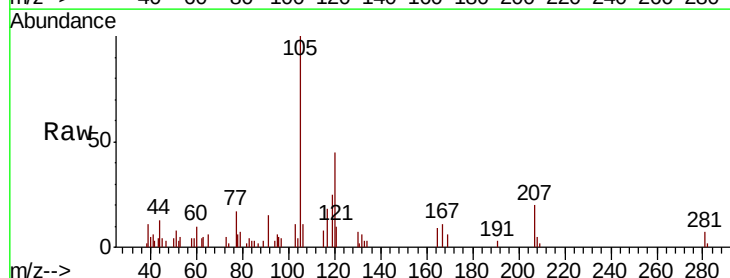
Manual Integrations
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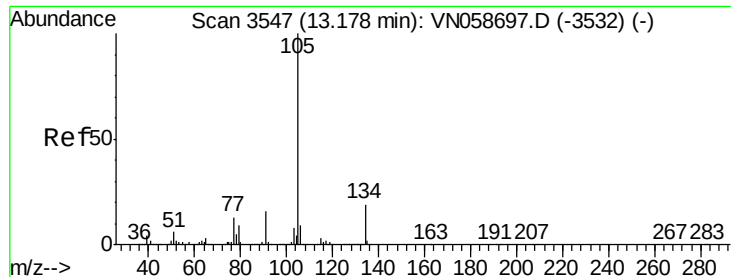
MMDadoda
 10/16/2019 12:57:10 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 0.961 ug/l
 RT: 13.05 min Scan# 3506
 Delta R.T. -0.00 min
 Lab File: VN058754.D
 Acq: 14 Oct 2019 17:17

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.0	21.9	65.7





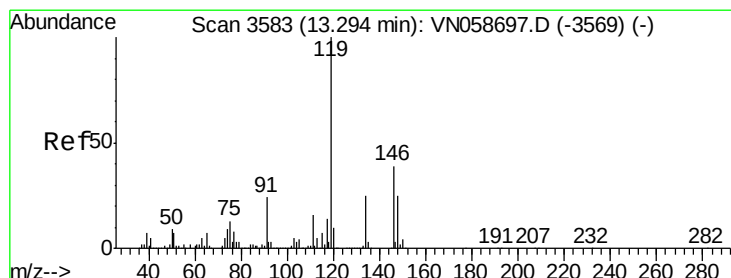
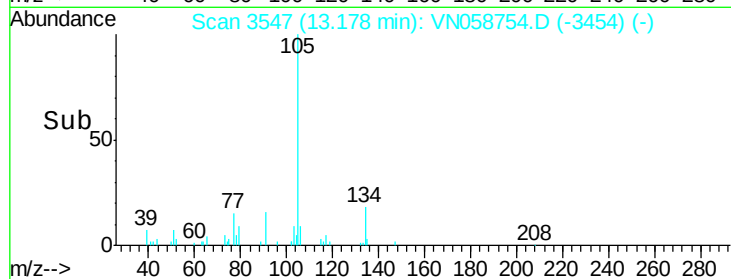
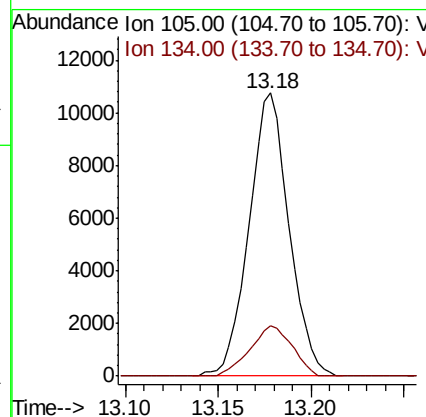
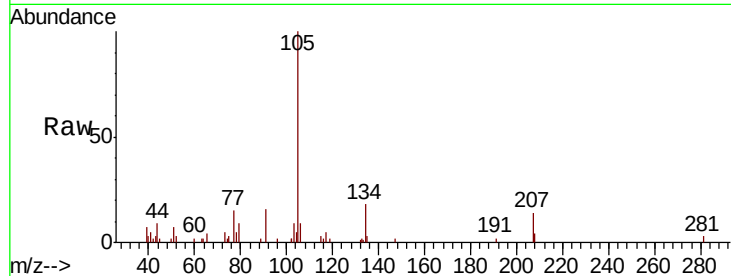
#85
 sec-Butylbenzene
 Concen: 0.988 ug/l
 RT: 13.18 min Scan# 3547
 Delta R.T. -0.00 min
 Lab File: VN058754.D
 Acq: 14 Oct 2019 17:17

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
105	100		
134	18.7	9.7	29.1

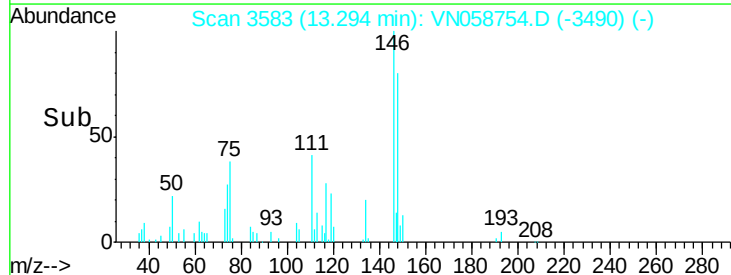
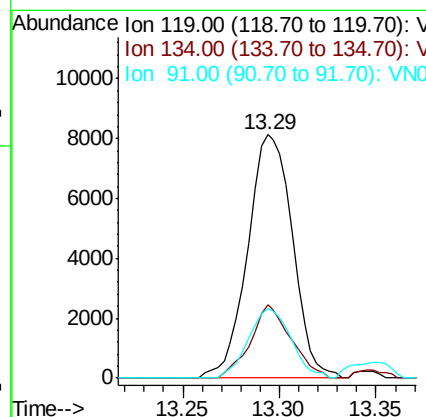
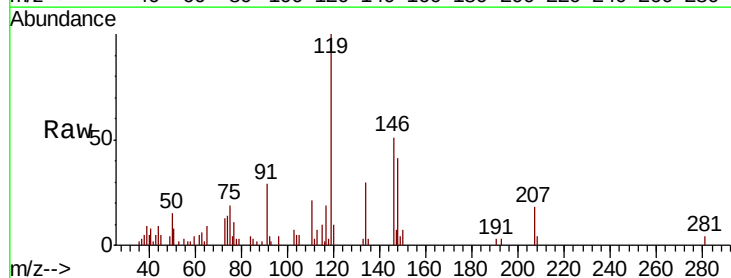
Manual Integrations
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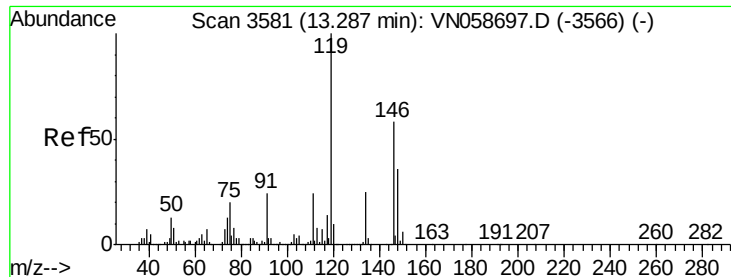
MMDadoda
 10/16/2019 12:57:10 AM



#86
 p-Isopropyltoluene
 Concen: 0.886 ug/l
 RT: 13.29 min Scan# 3583
 Delta R.T. -0.00 min
 Lab File: VN058754.D
 Acq: 14 Oct 2019 17:17

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.2	12.7	38.1
91	27.2	11.9	35.5





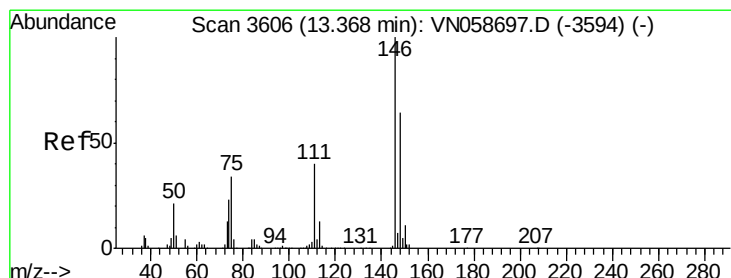
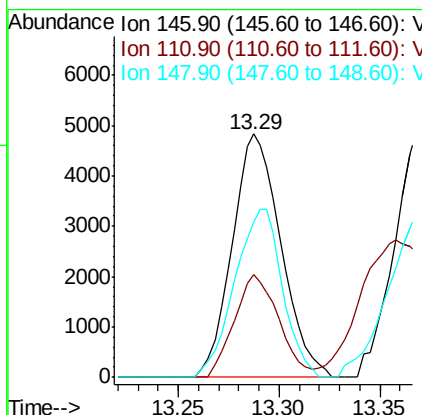
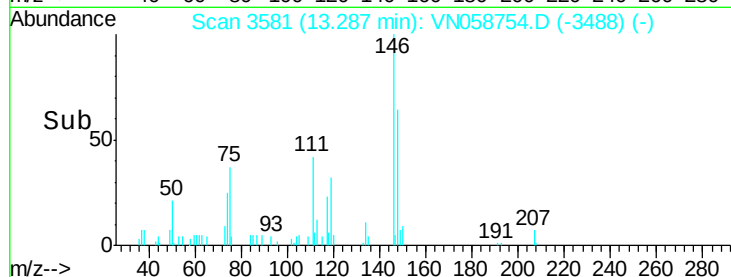
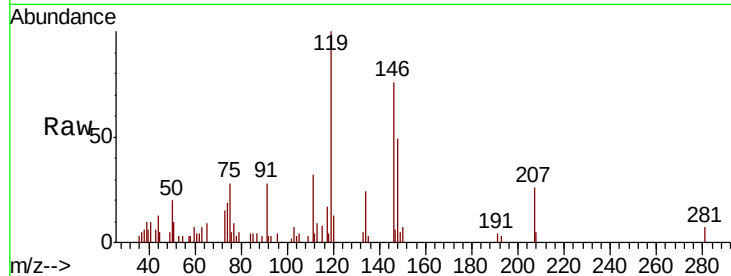
#87
 1,3-Dichlorobenzene
 Concen: 1.076 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN058754.D
 Acq: 14 Oct 2019 17:17

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.6	20.5	61.6
148	67.7	31.3	93.9

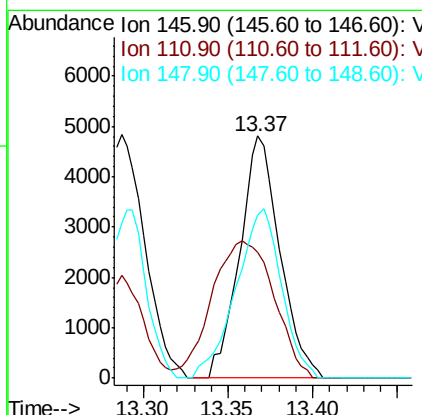
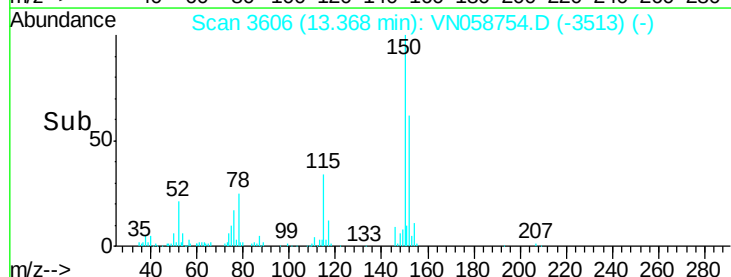
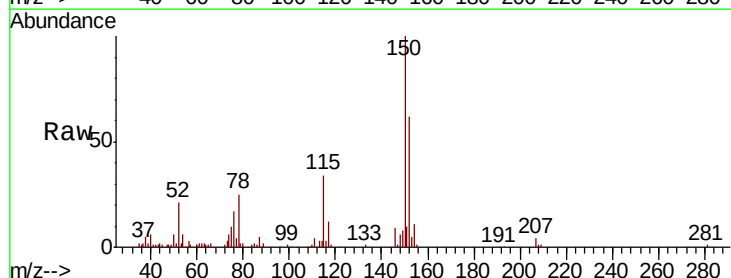
Manual Integrations
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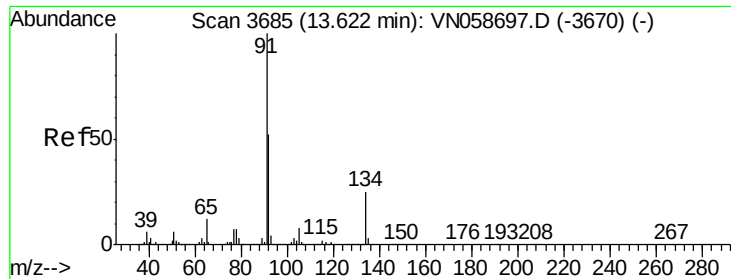
MMDadoda
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#88
 1,4-Dichlorobenzene
 Concen: 1.025 ug/l m
 RT: 13.37 min Scan# 3606
 Delta R.T. -0.00 min
 Lab File: VN058754.D
 Acq: 14 Oct 2019 17:17

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.9	20.1	60.2
148	69.8	31.9	95.7





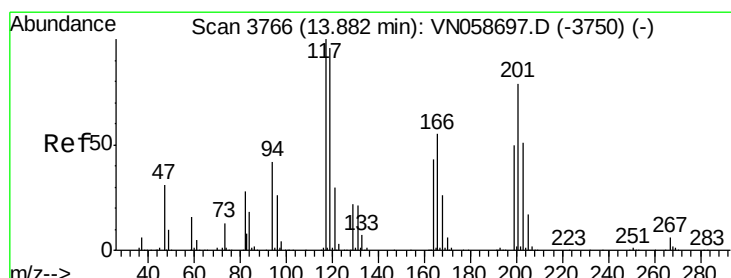
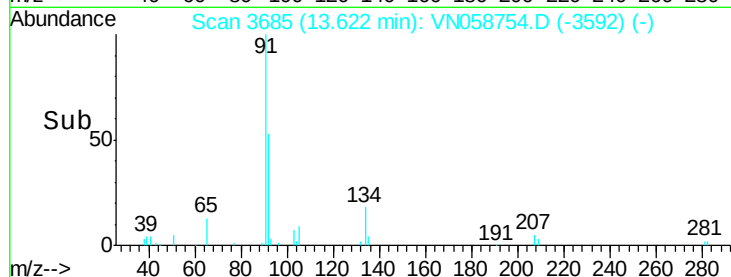
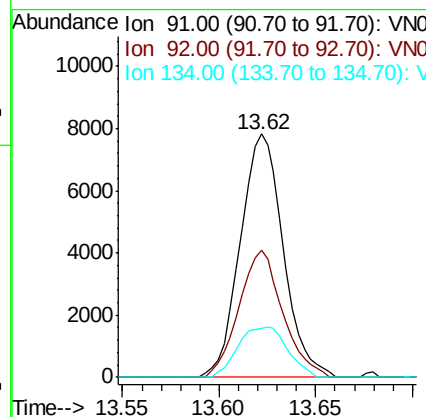
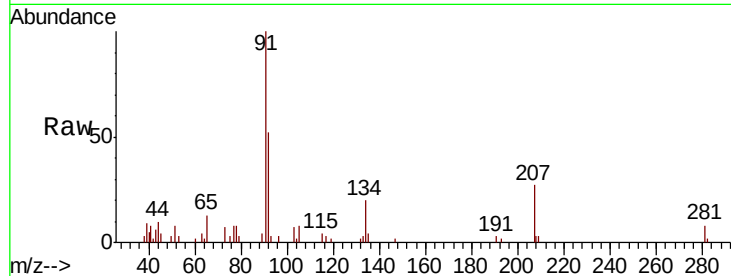
#89
n-Butylbenzene
Concen: 0.882 ug/l
RT: 13.62 min Scan# 3685
Delta R.T. -0.00 min
Lab File: VN058754.D
Acq: 14 Oct 2019 17:17

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.4	26.0	78.0
134	23.8	12.2	36.6

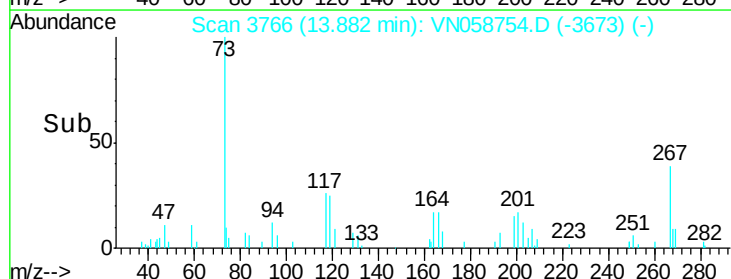
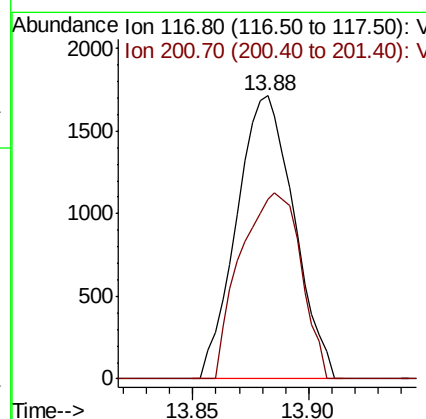
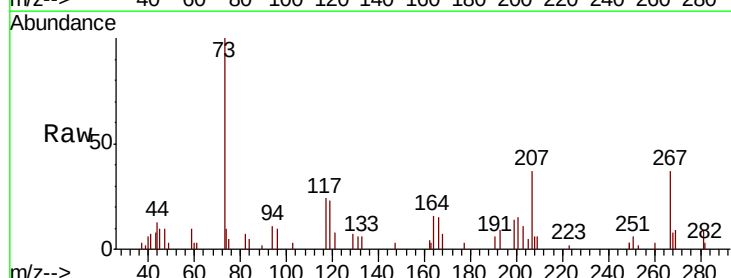
Manual Integrations
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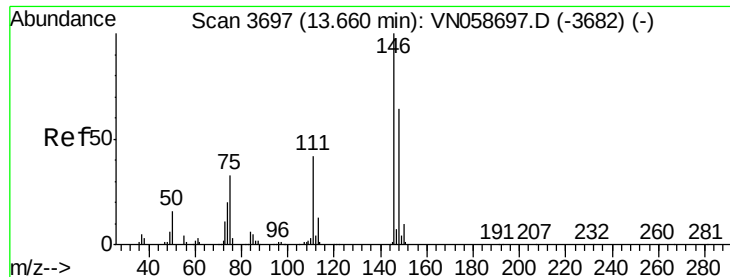
MMDadoda
10/16/2019 12:57:10 AM



#90
Hexachloroethane
Concen: 1.112 ug/l
RT: 13.88 min Scan# 3766
Delta R.T. -0.00 min
Lab File: VN058754.D
Acq: 14 Oct 2019 17:17

Tgt Ion	Ratio	Lower	Upper
117	100		
201	69.5	39.6	118.7





#91

1,2-Dichlorobenzene

Concen: 1.073 ug/l

RT: 13.66 min Scan# 3698

Delta R.T. 0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Instrument :

MSVOA_N

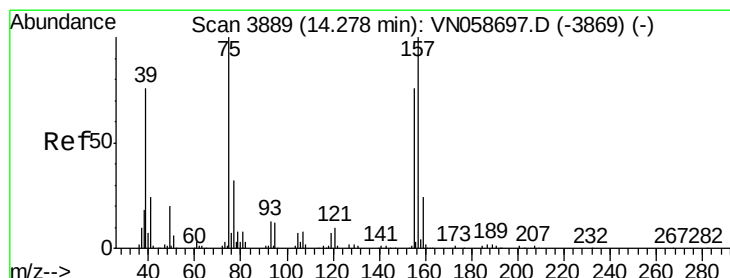
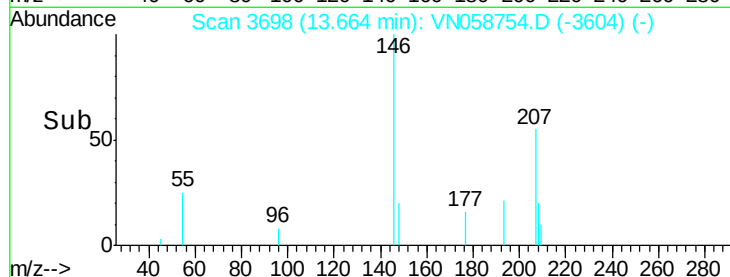
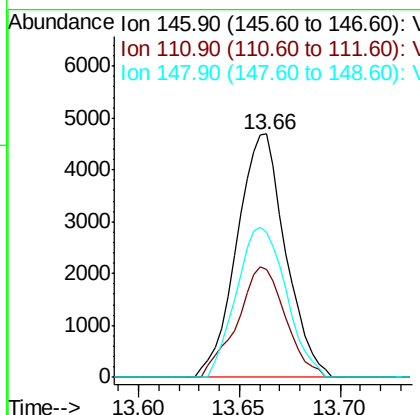
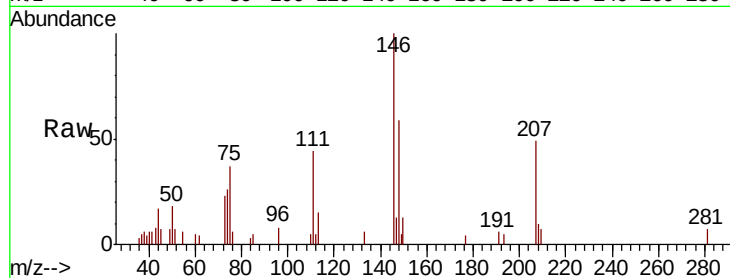
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	146	Resp:	7929
Ion Ratio	Lower	Upper	
146	100		
111	44.9	21.1	63.4
148	62.9	31.8	95.3

Manual Integrations
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MMDadoda
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#92

1,2-Dibromo-3-Chloropropane

Concen: 1.432 ug/l

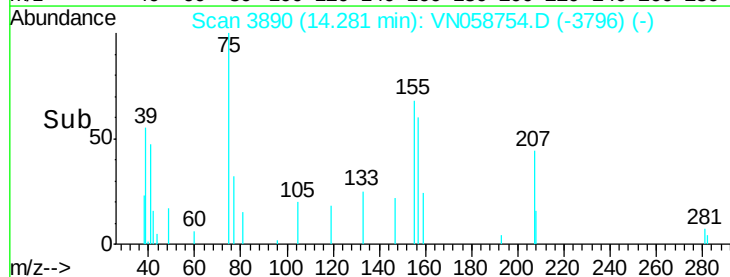
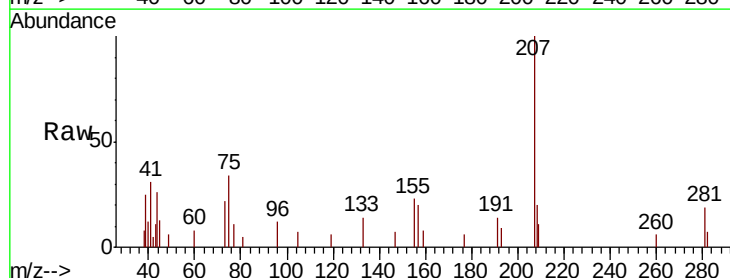
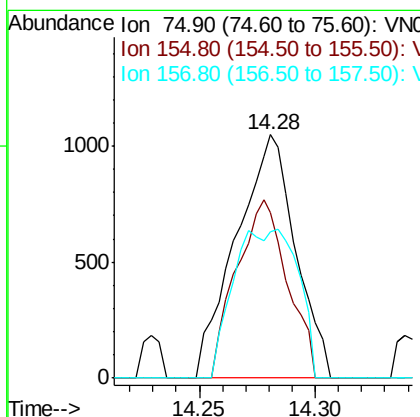
RT: 14.28 min Scan# 3890

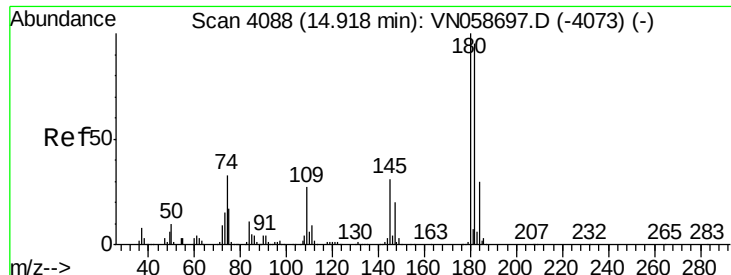
Delta R.T. 0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Tgt Ion:	75	Resp:	1864
Ion Ratio	Lower	Upper	
75	100		
155	62.9	37.9	113.6
157	34.1	49.4	148.2#





#93

1,2,4-Trichlorobenzene

Concen: 0.804 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. -0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Instrument :

MSVOA_N

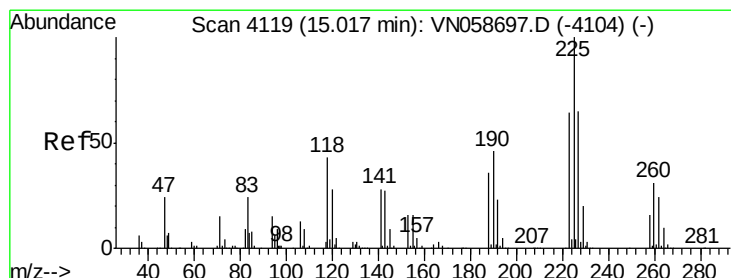
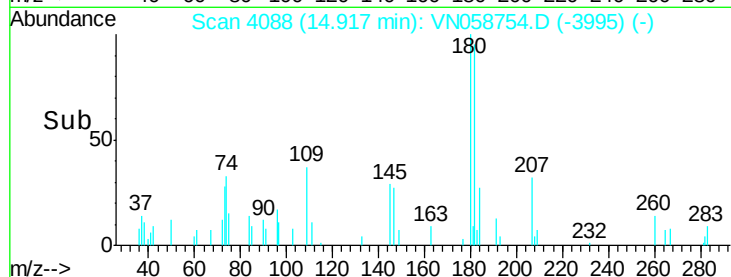
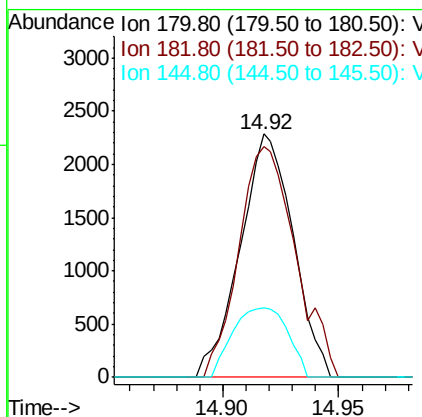
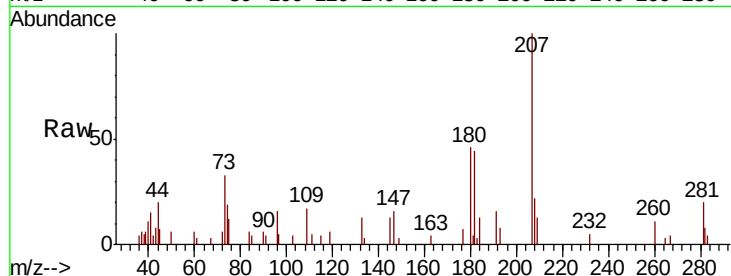
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	180	Resp:	3628
Ion Ratio	Lower	Upper	
180	100		
182	101.2	47.4	142.2
145	29.7	15.4	46.2

Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:57:10 AM



#94

Hexachlorobutadiene

Concen: 1.020 ug/l

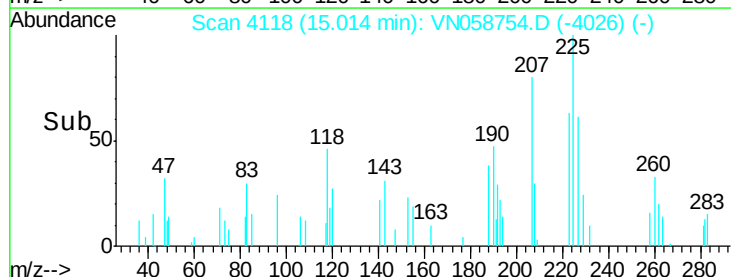
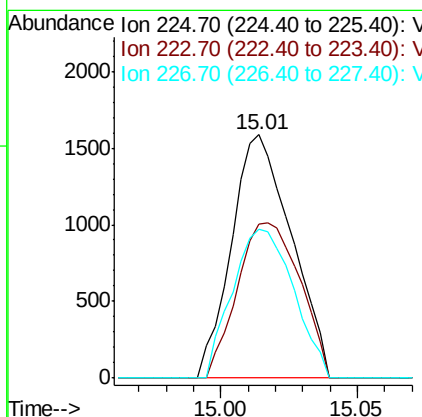
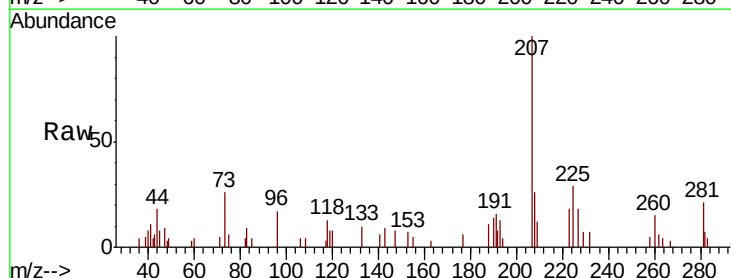
RT: 15.01 min Scan# 4118

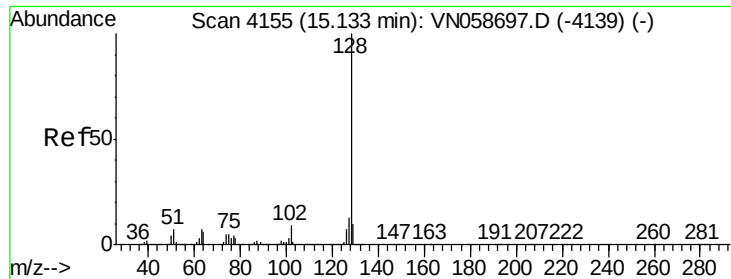
Delta R.T. -0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Tgt Ion:	225	Resp:	2423
Ion Ratio	Lower	Upper	
225	100		
223	66.7	32.3	96.8
227	62.4	32.4	97.0





#95

Naphthalene

Concen: 0.879 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Instrument :

MSVOA_N

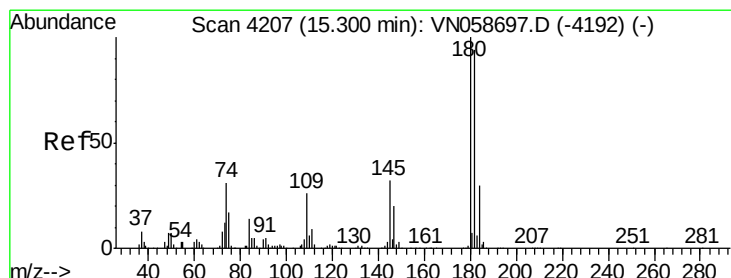
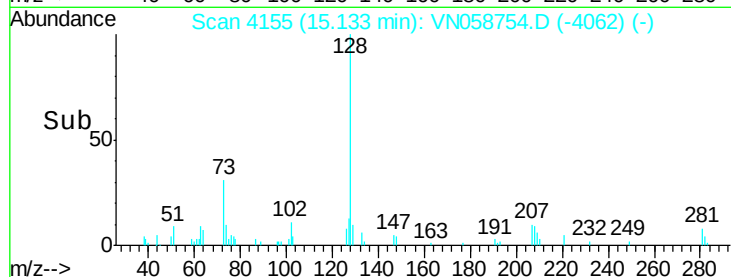
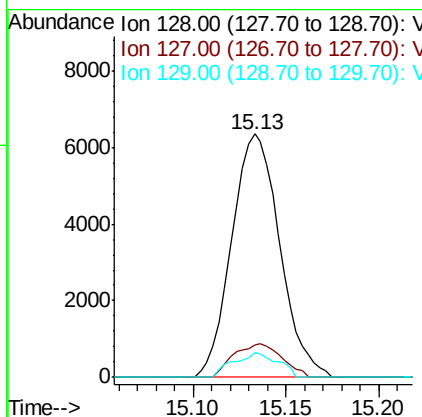
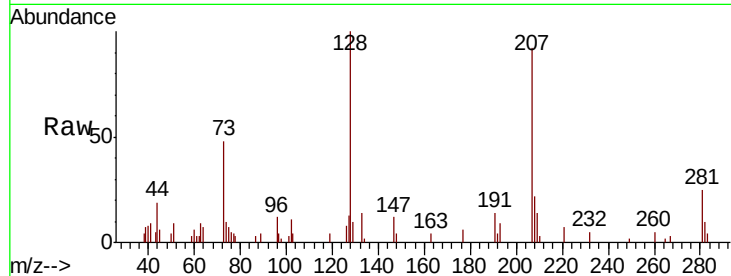
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	128	Resp:	11398
Ion Ratio	Lower	Upper	
128	100		
127	13.8	10.2	15.4
129	9.5	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:57:10 AM



#96

1,2,3-Trichlorobenzene

Concen: 0.899 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. -0.00 min

Lab File: VN058754.D

Acq: 14 Oct 2019 17:17

Tgt Ion:	180	Resp:	3959
Ion Ratio	Lower	Upper	
180	100		
182	95.0	47.3	142.0
145	39.8	16.2	48.6

