

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101319\
 Data File : VN058704.D
 Acq On : 11 Oct 2019 15:36
 Operator : JC/SP
 Sample : K5111-08 0.75PPB LOD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 10/16/2019 12:48:33 AM

Quant Time: Oct 12 00:34:11 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	426791	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	702554	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	627035	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	271478	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	310278	51.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.86%	
35) Dibromofluoromethane	7.57	113	220685	50.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.70%	
50) Toluene-d8	10.08	98	835284	48.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.26%	
62) 4-Bromofluorobenzene	12.40	95	293308	44.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.30%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	4214	0.793	ug/l	98
3) Chloromethane	2.04	50	5597	0.886	ug/l	97
4) Vinyl Chloride	2.17	62	5124	0.814	ug/l	93
5) Bromomethane	2.55	94	3744	0.978	ug/l	87
6) Chloroethane	2.69	64	3189	0.821	ug/l	89
7) Trichlorofluoromethane	3.00	101	6366	0.845	ug/l	99
8) Diethyl Ether	3.39	74	2117	0.760	ug/l	76
9) 1,1,2-Trichlorotrifluoroet	3.74	101	3305	0.769	ug/l #	86
10) Methyl Iodide	3.93	142	4109	0.701	ug/l #	90
11) Tert butyl alcohol	4.75	59	4453m	4.602	ug/l	
12) 1,1-Dichloroethene	3.71	96	3847	0.939	ug/l #	62
13) Acrolein	3.59	56	2864	3.680	ug/l	97
14) Allyl chloride	4.30	41	7127	0.862	ug/l	96
15) Acrylonitrile	4.97	53	8625	3.534	ug/l #	85
16) Acetone	3.80	43	10548	4.264	ug/l	97
17) Carbon Disulfide	4.03	76	11676	0.891	ug/l #	93
18) Methyl Acetate	4.31	43	5792	0.923	ug/l #	67
19) Methyl tert-butyl Ether	5.02	73	11753	0.803	ug/l	95
20) Methylene Chloride	4.53	84	5019	0.971	ug/l #	84
21) trans-1,2-Dichloroethene	5.02	96	3987	0.870	ug/l	85
22) Diisopropyl ether	5.94	45	11867	0.738	ug/l	91
23) Vinyl Acetate	5.88	43	48117	3.708	ug/l	98
24) 1,1-Dichloroethane	5.83	63	7299	0.797	ug/l #	93
25) 2-Butanone	6.82	43	13562	3.793	ug/l	97
26) 2,2-Dichloropropane	6.80	77	8064	0.964	ug/l	86
27) cis-1,2-Dichloroethene	6.81	96	4419	0.827	ug/l	94
28) Bromochloromethane	7.18	49	2766	0.868	ug/l #	85
29) Tetrahydrofuran	7.20	42	8883	3.845	ug/l #	78
30) Chloroform	7.36	83	8374	0.910	ug/l	93
31) Cyclohexane	7.64	56	16588	1.893	ug/l #	40
32) 1,1,1-Trichloroethane	7.55	97	6263	0.798	ug/l #	51
36) 1,1-Dichloropropene	7.77	75	5810	0.818	ug/l	94
37) Ethyl Acetate	6.92	43	4471	0.622	ug/l #	71
38) Carbon Tetrachloride	7.76	117	5692	0.822	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	6090	0.739	ug/l	93
40) Benzene	8.03	78	16839	0.825	ug/l	98
41) Methacrylonitrile	7.17	41	2999	0.892	ug/l #	40
42) 1,2-Dichloroethane	8.11	62	6889	0.879	ug/l	84
43) Isopropyl Acetate	8.15	43	9287	0.759	ug/l #	88
44) Trichloroethene	8.82	130	4217	0.832	ug/l	90
45) 1,2-Dichloropropane	9.10	63	3824	0.700	ug/l #	84
46) Dibromomethane	9.20	93	3155	0.911	ug/l	88
47) Bromodichloromethane	9.39	83	5462	0.775	ug/l #	87
48) Methyl methacrylate	9.19	41	4199	0.757	ug/l	93
49) 1,4-Dioxane	9.19	88	1249	14.554	ug/l #	86
51) 4-Methyl-2-Pentanone	9.98	43	24982	3.635	ug/l	97
52) Toluene	10.15	92	9709	0.778	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	5627	0.696	ug/l #	60
54) cis-1,3-Dichloropropene	9.83	75	6558	0.764	ug/l	95
55) 1,1,2-Trichloroethane	10.56	97	3926	0.769	ug/l	92
56) Ethyl methacrylate	10.43	69	4981	0.668	ug/l #	85
57) 1,3-Dichloropropane	10.71	76	6976	0.802	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	11629	3.234	ug/l	96
59) 2-Hexanone	10.75	43	19104	3.597	ug/l	95
60) Dibromochloromethane	10.90	129	3867	0.734	ug/l	94
61) 1,2-Dibromoethane	11.00	107	4011	0.784	ug/l	94
64) Tetrachloroethene	10.63	164	3688	0.840	ug/l	93
65) Chlorobenzene	11.43	112	10757	0.845	ug/l	93
66) 1,1,1,2-Tetrachloroethane	11.51	131	3491	0.741	ug/l #	61
67) Ethyl Benzene	11.51	91	18071	0.796	ug/l	97
68) m/p-Xylenes	11.62	106	13091	1.537	ug/l	96
69) o-Xylene	11.95	106	5711	0.693	ug/l	93
70) Styrene	11.97	104	8508	0.630	ug/l	89
71) Bromoform	12.13	173	2583	0.748	ug/l #	87
73) Isopropylbenzene	12.25	105	16268	0.827	ug/l	97
74) N-amyl acetate	12.07	43	5832	0.660	ug/l #	96
75) 1,1,2,2-Tetrachloroethane	12.51	83	6089	0.940	ug/l	96
76) 1,2,3-Trichloropropane	12.56	75	6583m	1.105	ug/l	
77) Bromobenzene	12.53	156	3868	0.809	ug/l	75
78) n-propylbenzene	12.60	91	18812	0.821	ug/l	100
79) 2-Chlorotoluene	12.68	91	12376	0.870	ug/l	97
80) 1,3,5-Trimethylbenzene	12.74	105	13336	0.794	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	2160m	0.972	ug/l	
82) 4-Chlorotoluene	12.78	91	12452	0.853	ug/l	97
83) tert-Butylbenzene	13.00	119	11785	0.820	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	12687	0.761	ug/l	98
85) sec-Butylbenzene	13.17	105	14969	0.790	ug/l	98
86) p-Isopropyltoluene	13.30	119	12852	0.746	ug/l	98
87) 1,3-Dichlorobenzene	13.29	146	7054	0.800	ug/l	93
88) 1,4-Dichlorobenzene	13.37	146	7458m	0.832	ug/l	
89) n-Butylbenzene	13.62	91	11523	0.724	ug/l	98
90) Hexachloroethane	13.88	117	2528	0.820	ug/l	91
91) 1,2-Dichlorobenzene	13.66	146	7047	0.820	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.28	75	1807	1.194	ug/l	56

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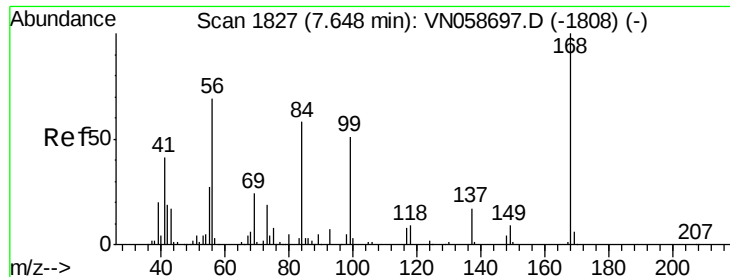
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	4035	0.770	ug/l	91
94) Hexachlorobutadiene	15.02	225	2032	0.736	ug/l	77
95) Naphthalene	15.14	128	10758	0.714	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.30	180	3673	0.717	ug/l	82

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.00 min

Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:168 Resp: 426791

Ion Ratio Lower Upper

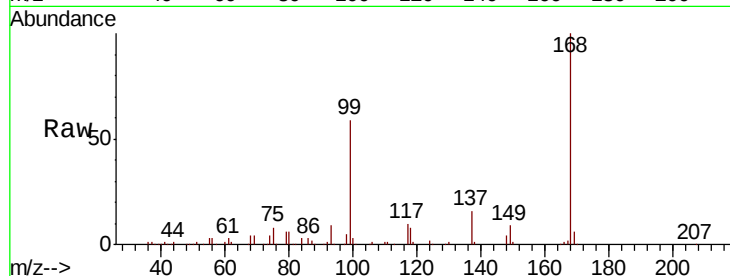
168 100

99 59.1 47.5 71.3

Manual Integrations
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10/16/2019 12:48:33 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

200000

150000

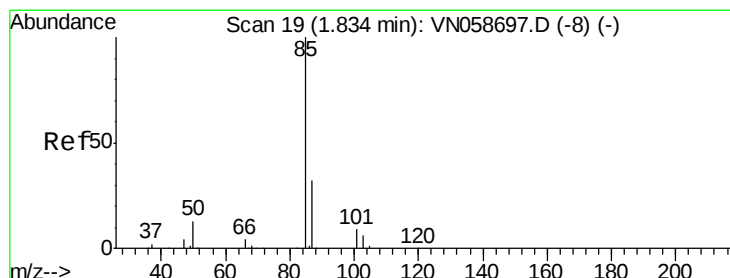
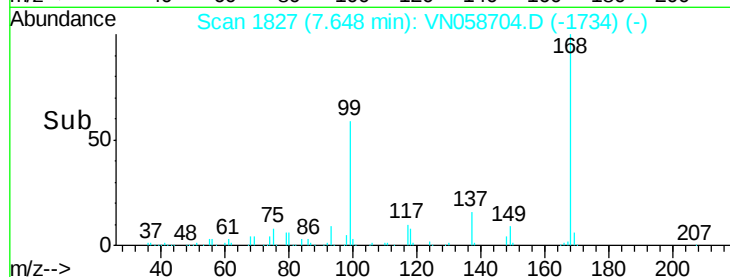
100000

50000

0

7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 0.793 ug/l

RT: 1.83 min Scan# 19

Delta R.T. -0.00 min

Lab File: VN058704.D

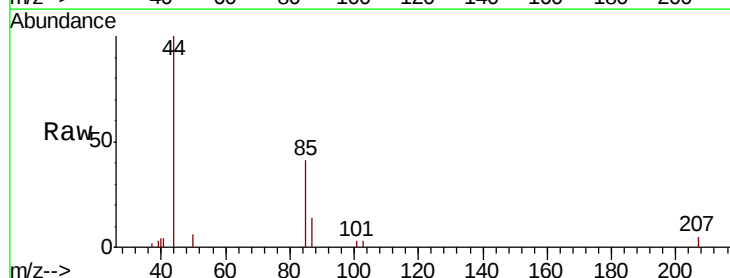
Acq: 11 Oct 2019 15:36

Tgt Ion: 85 Resp: 4214

Ion Ratio Lower Upper

85 100

87 33.5 16.2 48.6



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.83

3000

2500

2000

1500

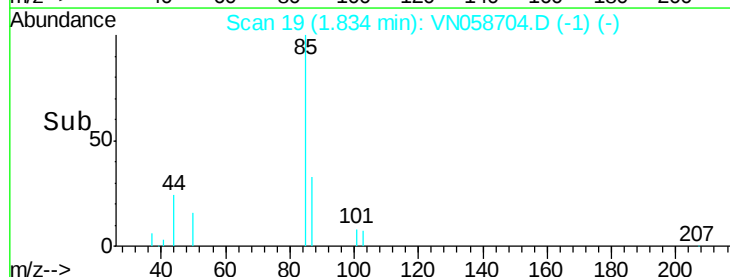
1000

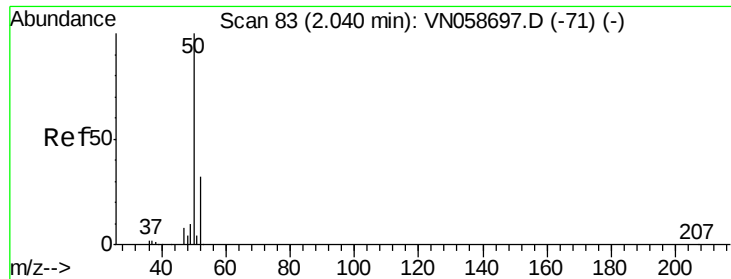
500

0

1.80 1.85 1.90

Time-->





#3

Chloromethane

Concen: 0.886 ug/l

RT: 2.04 min Scan# 84

Delta R.T. 0.00 min

Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 50 Resp: 5597

Ion Ratio Lower Upper

50 100

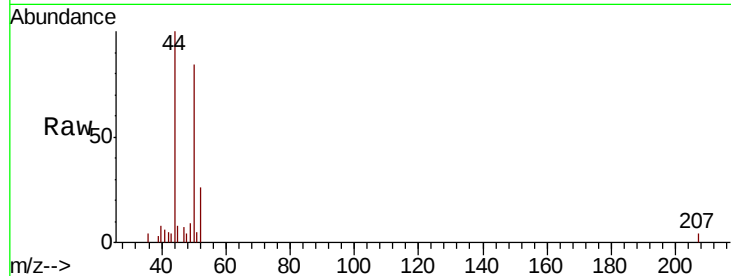
52 30.7 25.8 38.6

Manual Integrations

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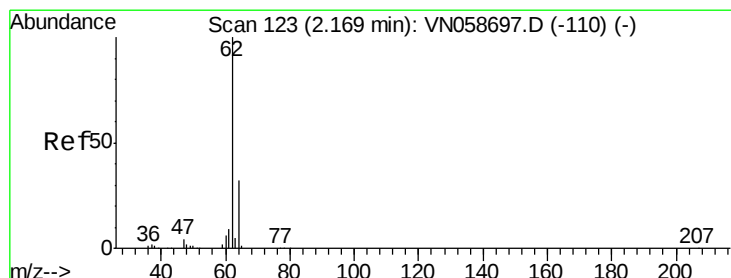
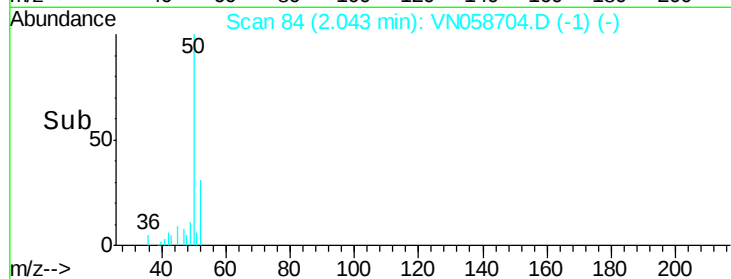
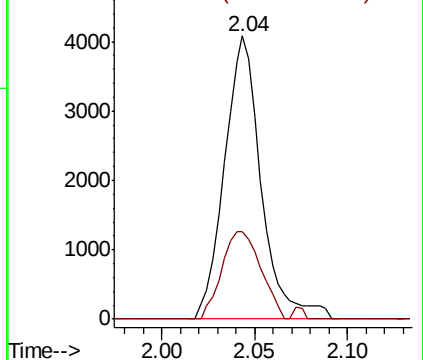
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Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 0.814 ug/l

RT: 2.17 min Scan# 123

Delta R.T. -0.00 min

Lab File: VN058704.D

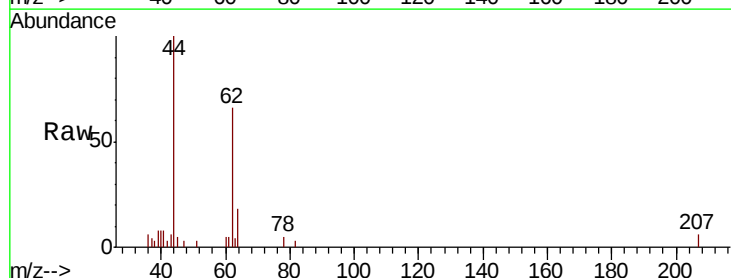
Acq: 11 Oct 2019 15:36

Tgt Ion: 62 Resp: 5124

Ion Ratio Lower Upper

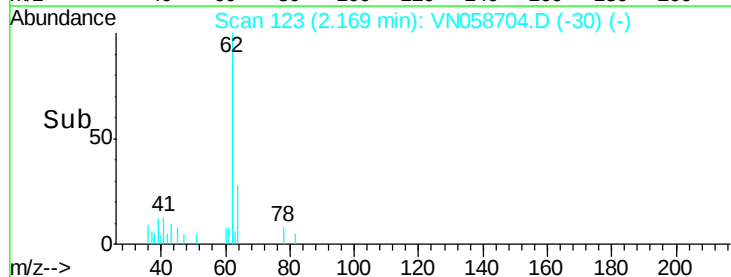
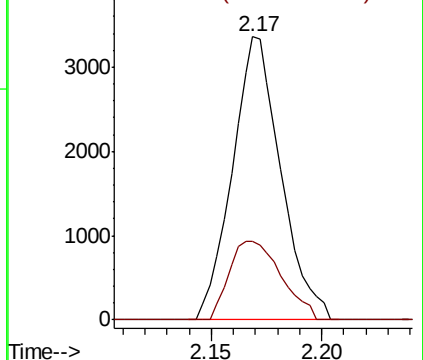
62 100

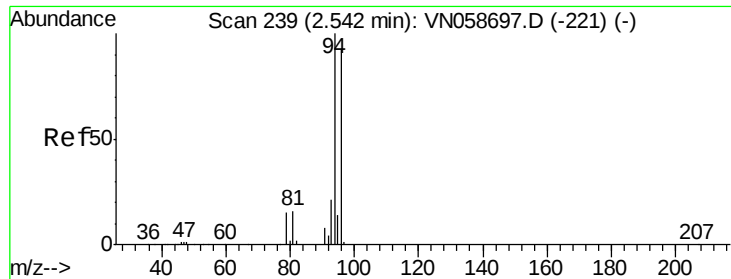
64 27.7 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 0.978 ug/l

RT: 2.55 min Scan# 241

Delta R.T. 0.01 min

Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 94 Resp: 3744

Ion Ratio Lower Upper

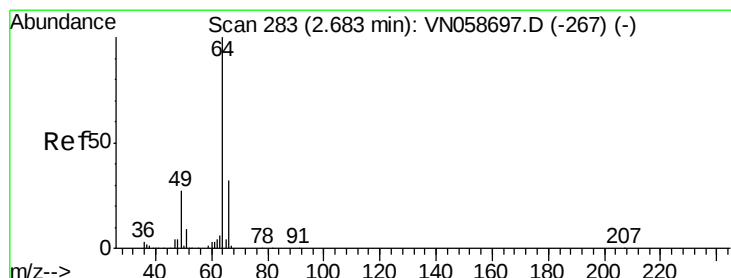
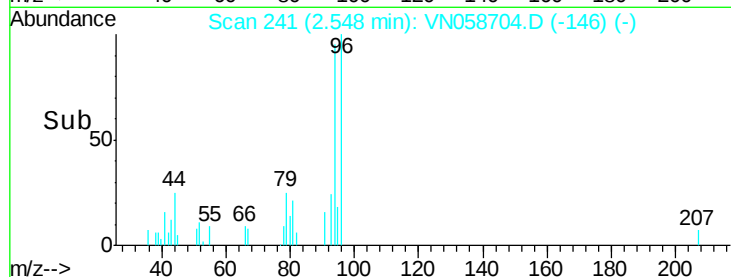
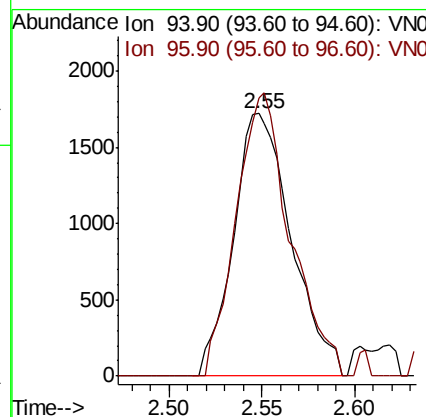
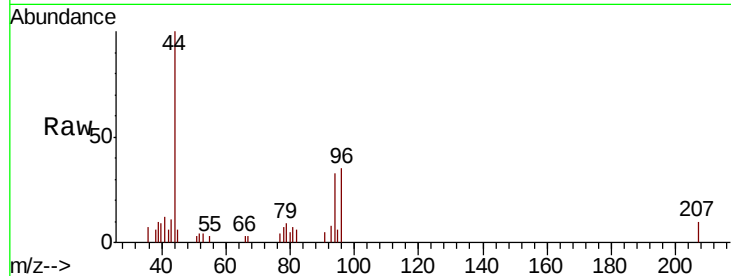
94 100

96 105.8 74.5 111.7

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#6

Chloroethane

Concen: 0.821 ug/l

RT: 2.69 min Scan# 284

Delta R.T. 0.00 min

Lab File: VN058704.D

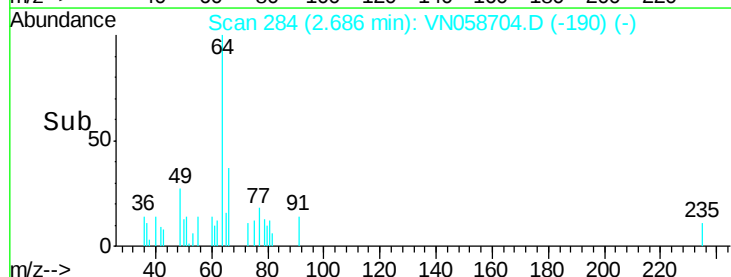
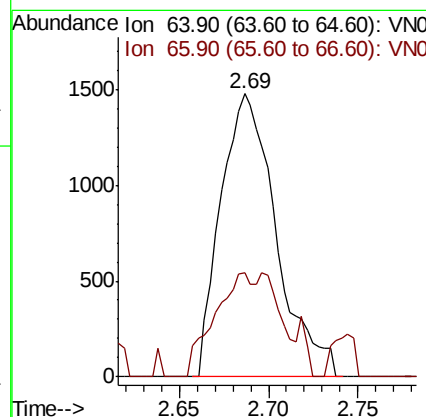
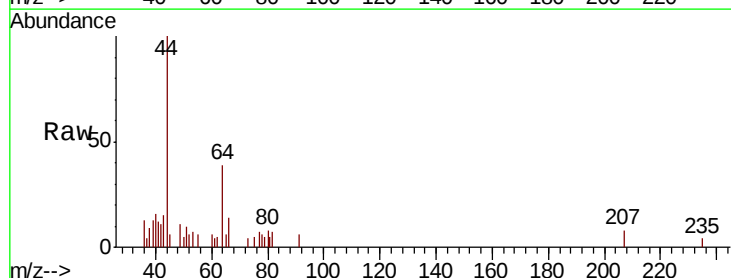
Acq: 11 Oct 2019 15:36

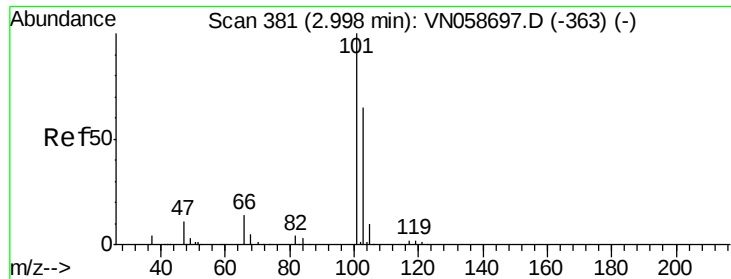
Tgt Ion: 64 Resp: 3189

Ion Ratio Lower Upper

64 100

66 25.7 25.4 38.2





#7

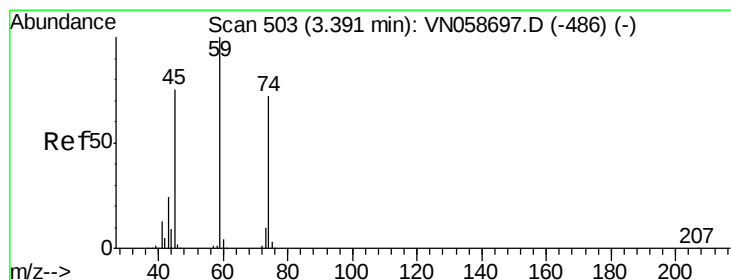
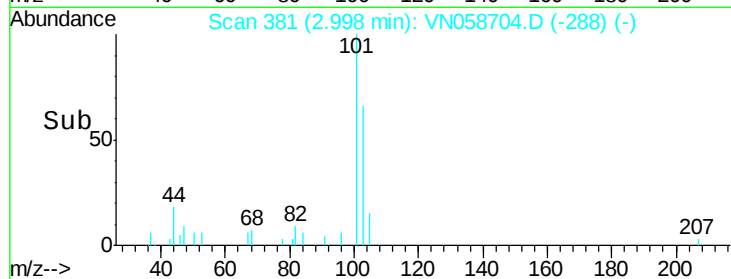
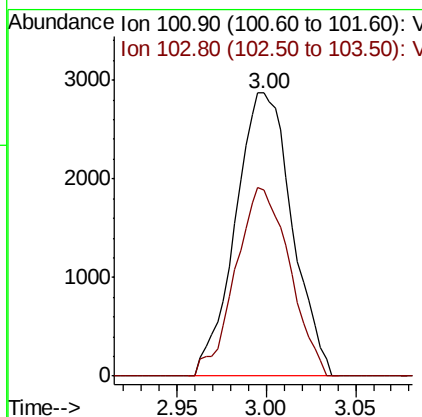
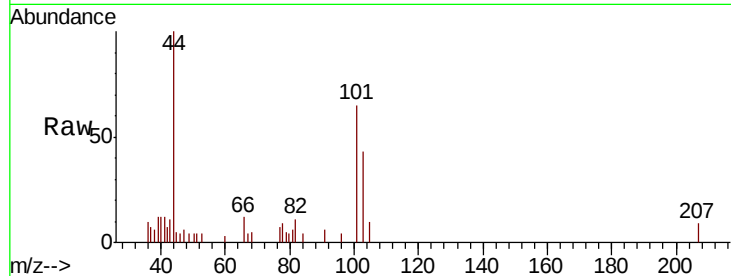
Trichlorofluoromethane
Concen: 0.845 ug/l
RT: 3.00 min Scan# 381
Delta R.T. -0.00 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

Instrument :
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LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.8	51.8	77.6

Manual Integrations
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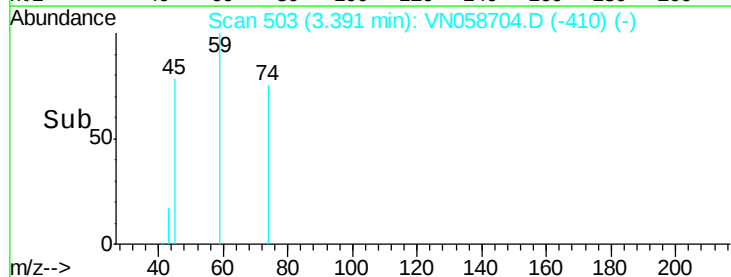
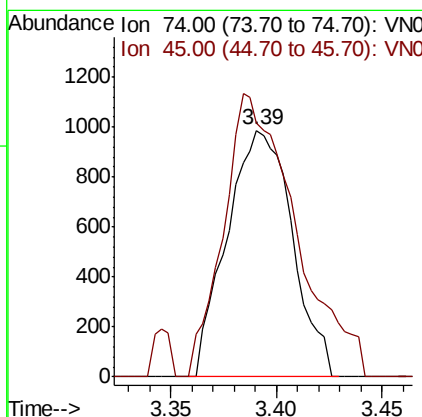
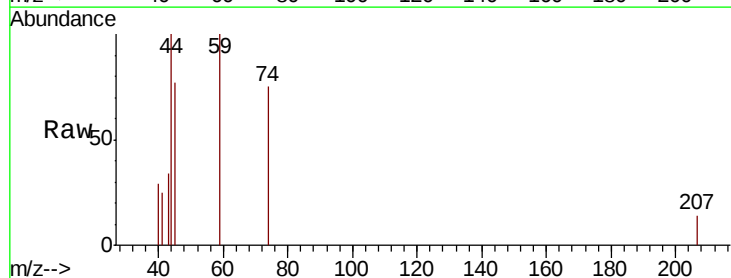
MMDadoda
10/16/2019 12:48:33 AM

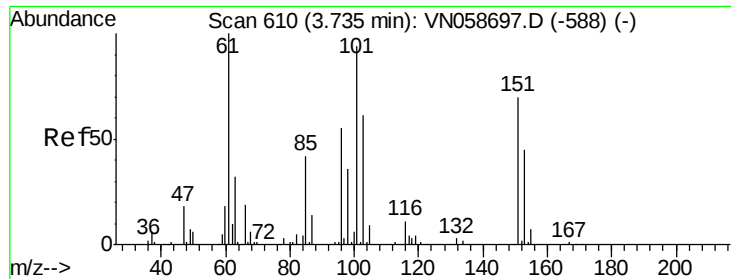


#8

Diethyl Ether
Concen: 0.760 ug/l
RT: 3.39 min Scan# 503
Delta R.T. -0.00 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

Tgt Ion	Ratio	Lower	Upper
74	100		
45	127.1	51.3	154.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.769 ug/l

RT: 3.74 min Scan# 611

Delta R.T. 0.00 min

Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

Instrument :

MSVOA_N

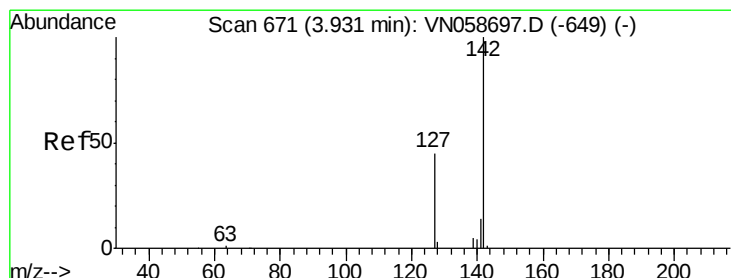
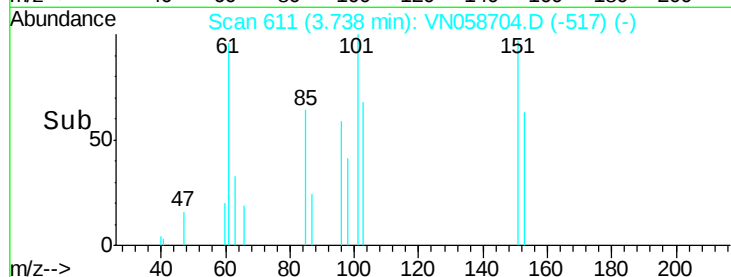
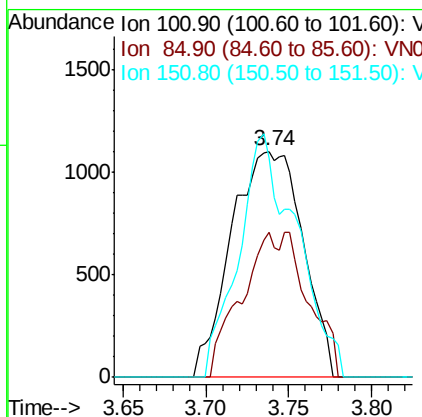
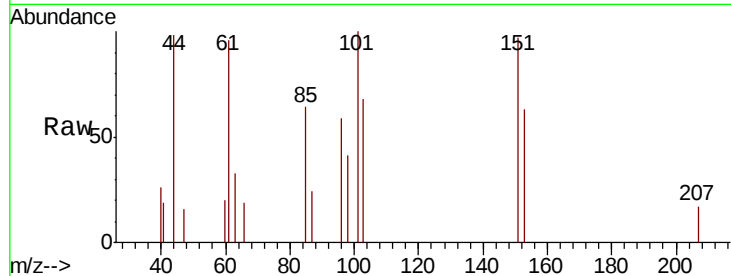
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
101	100		
85	34.4	37.0	55.6#
151	87.6	61.8	92.6

Manual Integrations
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10/16/2019 12:48:33 AM



#10

Methyl Iodide

Concen: 0.701 ug/l

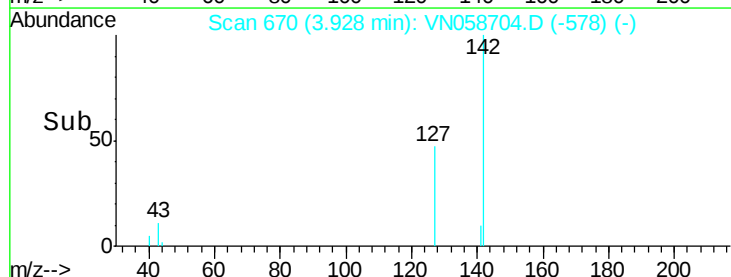
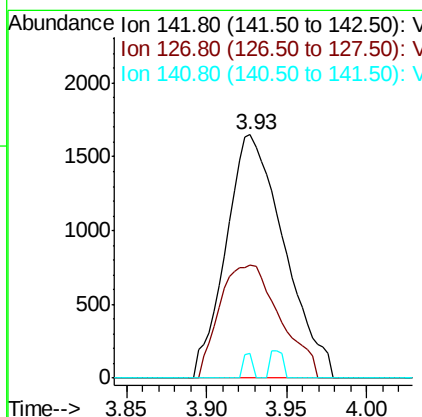
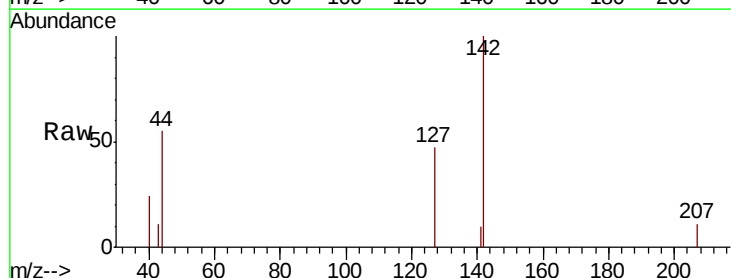
RT: 3.93 min Scan# 670

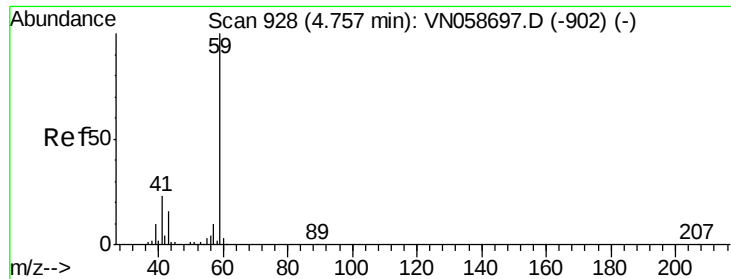
Delta R.T. -0.00 min

Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

Tgt Ion	Ratio	Lower	Upper
142	100		
127	48.3	36.4	54.6
141	1.6	11.1	16.7#





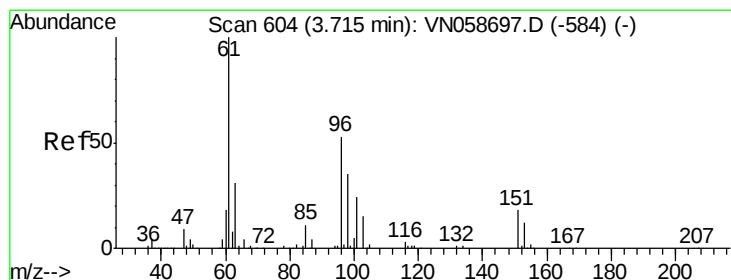
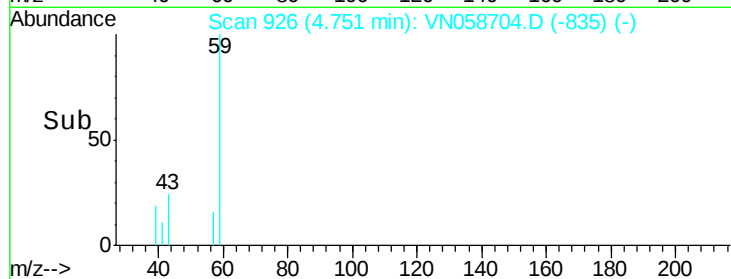
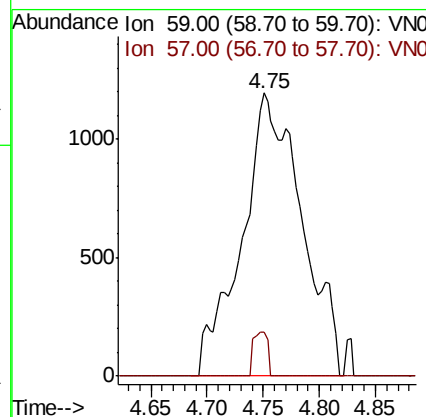
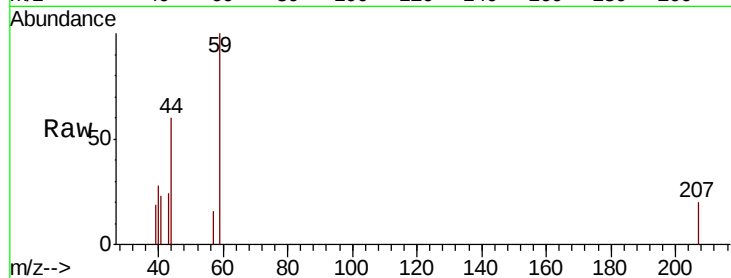
#11
Tert butyl alcohol
Concen: 4.602 ug/l m
RT: 4.75 min Scan# 926
Delta R.T. -0.01 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

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

Tot Ion: 59 Resp: 4453
Ion Ratio Lower Upper
59 100
57 3.7 8.4 12.6#

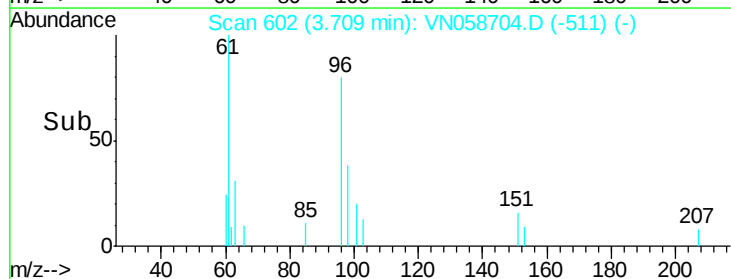
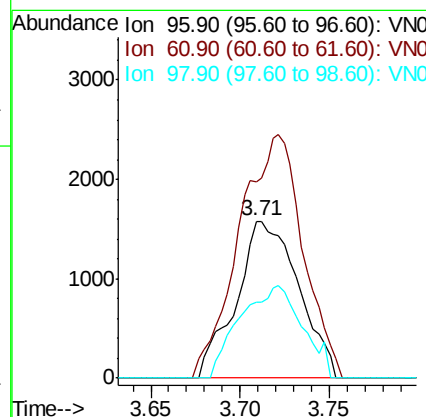
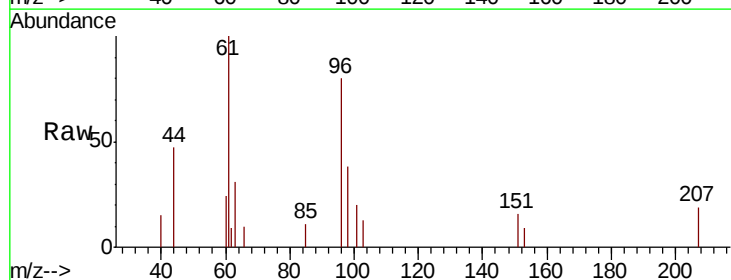
Manual Integrations
APPROVED

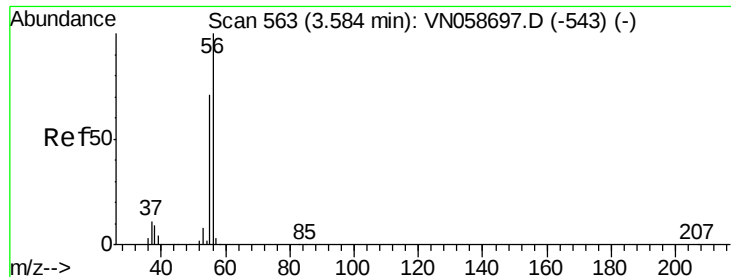
MMDadoda
10/16/2019 12:48:33 AM



#12
1,1-Dichloroethene
Concen: 0.939 ug/l
RT: 3.71 min Scan# 602
Delta R.T. -0.01 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

Tgt Ion: 96 Resp: 3847
Ion Ratio Lower Upper
96 100
61 125.3 151.3 226.9#
98 48.2 52.6 78.8#





#13

Acrolein

Concen: 3.680 ug/l

RT: 3.59 min Scan# 564

Delta R.T. 0.00 min

Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 56 Resp: 2864

Ion Ratio Lower Upper

56 100

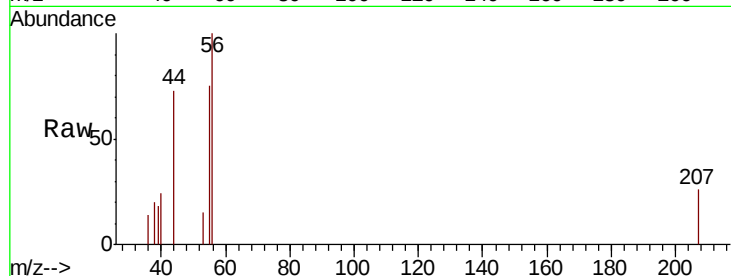
55 68.5 56.7 85.1

Manual Integrations

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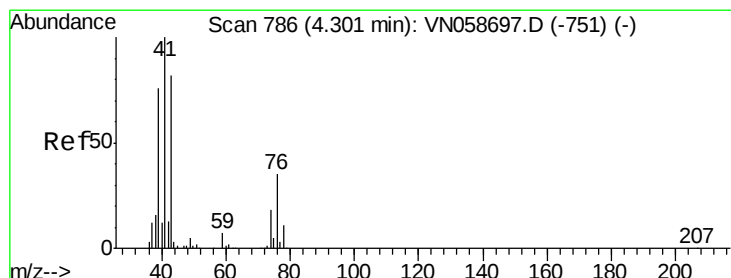
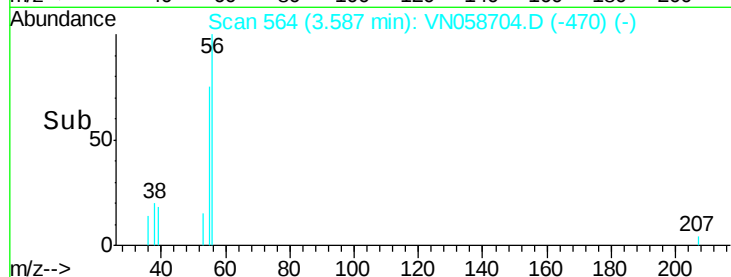
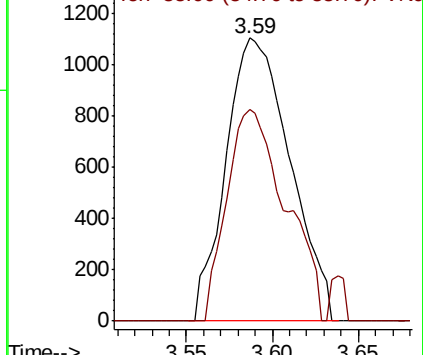
MMDadoda

10/16/2019 12:48:33 AM



Abundance Ion 56.00 (55.70 to 56.70): VN058697.D (-543) (-)

Ion 55.00 (54.70 to 55.70): VN058697.D (-543) (-)



#14

Allyl chloride

Concen: 0.862 ug/l

RT: 4.30 min Scan# 786

Delta R.T. -0.00 min

Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

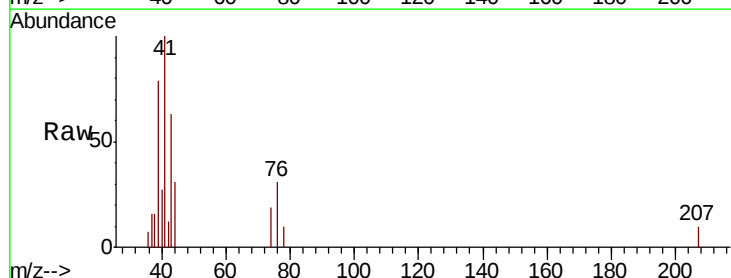
Tgt Ion: 41 Resp: 7127

Ion Ratio Lower Upper

41 100

39 73.4 57.2 85.8

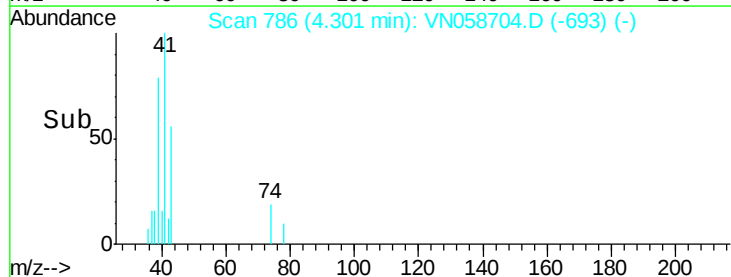
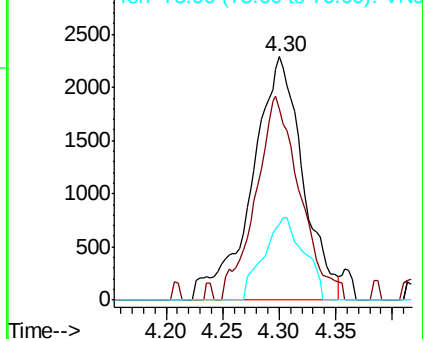
76 26.8 25.0 37.6

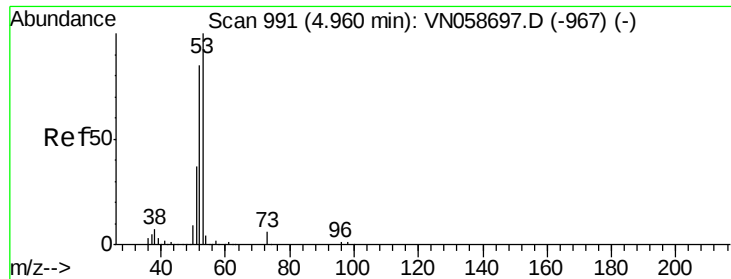


Abundance Ion 41.00 (40.70 to 41.70): VN058697.D (-751) (-)

Ion 39.00 (38.70 to 39.70): VN058697.D (-751) (-)

Ion 75.90 (75.60 to 76.60): VN058697.D (-751) (-)





#15

Acrylonitrile

Concen: 3.534 ug/l

RT: 4.97 min Scan# 994

Delta R.T. 0.01 min

Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

Instrument :

MSVOA_N

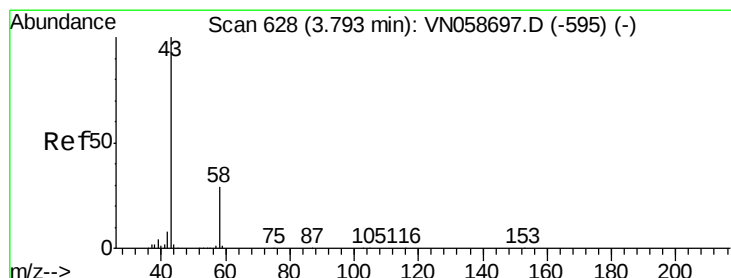
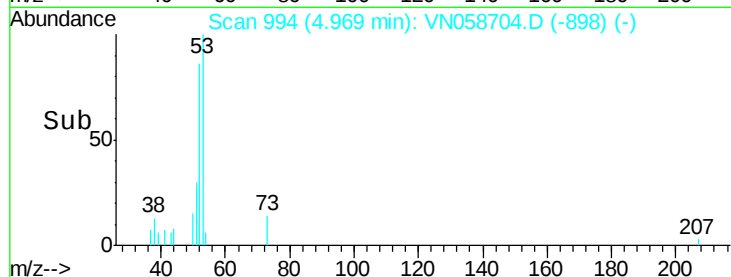
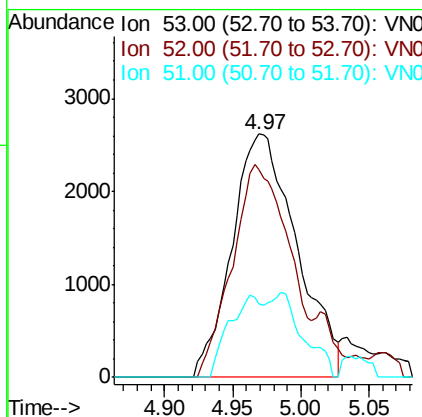
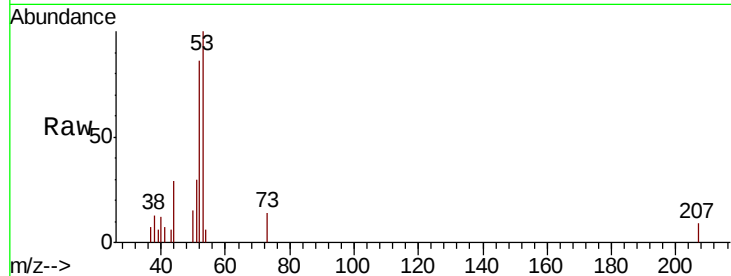
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	53	Resp:	8625
Ion	Ratio	Lower	Upper
53	100		
52	76.7	66.2	99.2
51	17.3	29.4	44.2#

Manual Integrations
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#16

Acetone

Concen: 4.264 ug/l

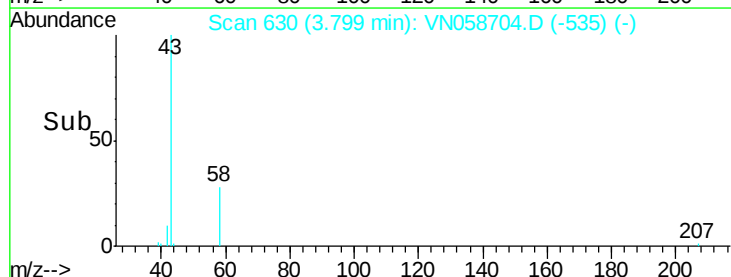
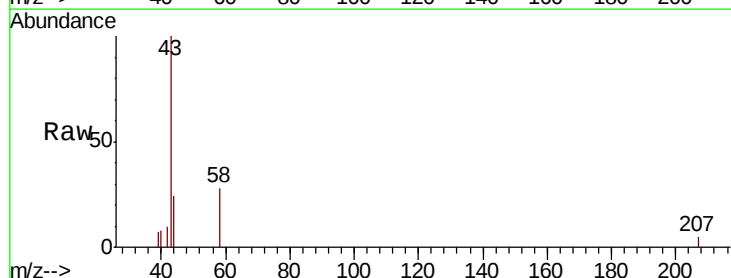
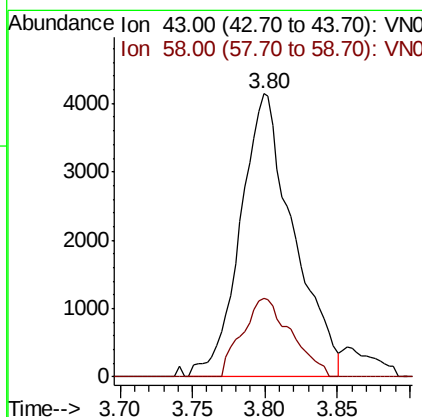
RT: 3.80 min Scan# 630

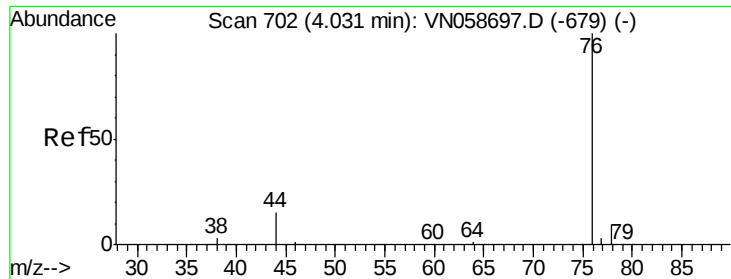
Delta R.T. 0.01 min

Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

Tgt Ion:	43	Resp:	10548
Ion	Ratio	Lower	Upper
43	100		
58	27.6	23.3	34.9





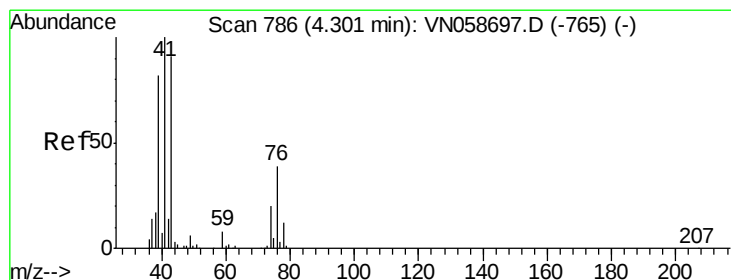
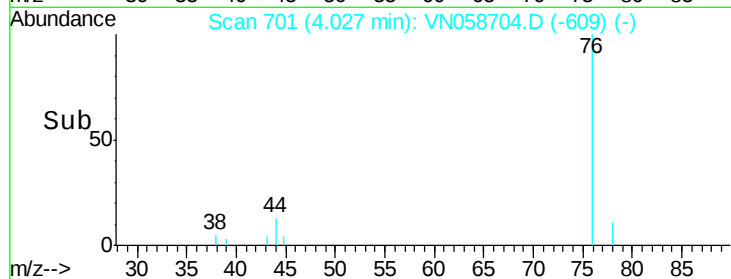
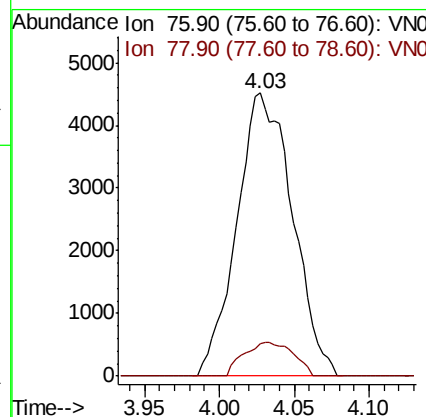
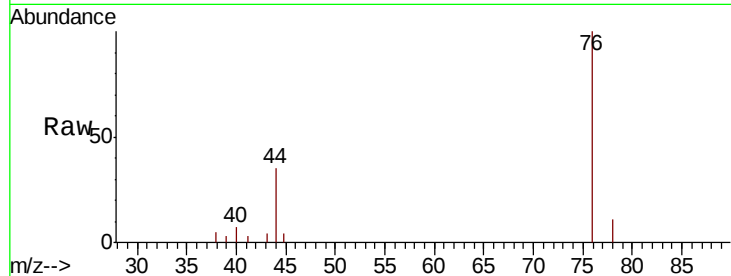
#17
Carbon Disulfide
Concen: 0.891 ug/l
RT: 4.03 min Scan# 701
Delta R.T. -0.00 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

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

Tot Ion: 76 Resp: 11676
Ion Ratio Lower Upper
76 100
78 11.4 7.1 10.7#

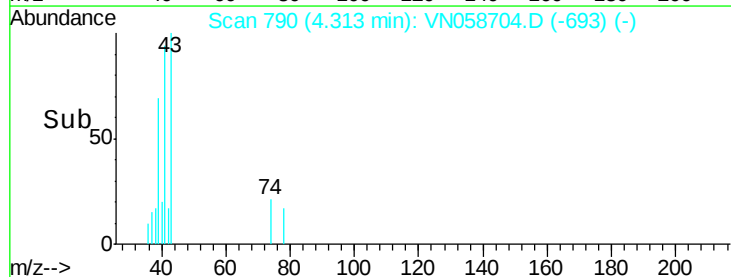
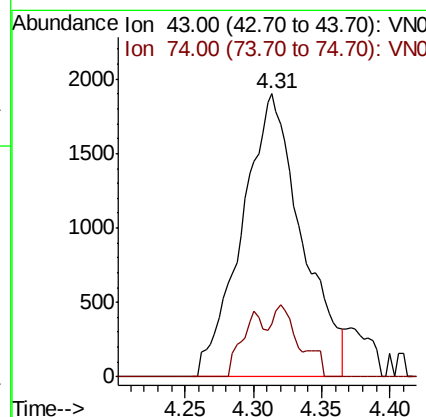
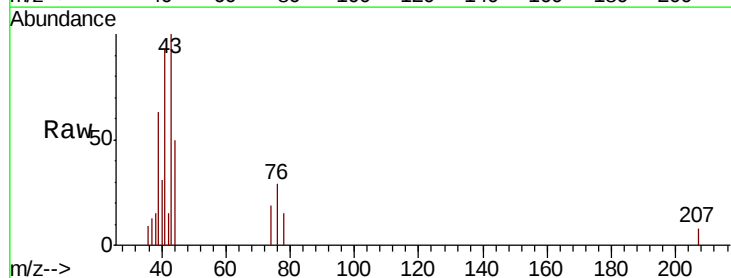
Manual Integrations
APPROVED

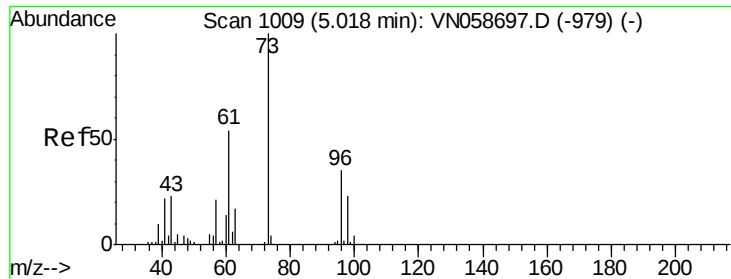
MMDadoda
10/16/2019 12:48:33 AM



#18
Methyl Acetate
Concen: 0.923 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.01 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

Tgt Ion: 43 Resp: 5792
Ion Ratio Lower Upper
43 100
74 5.9 17.2 25.8#





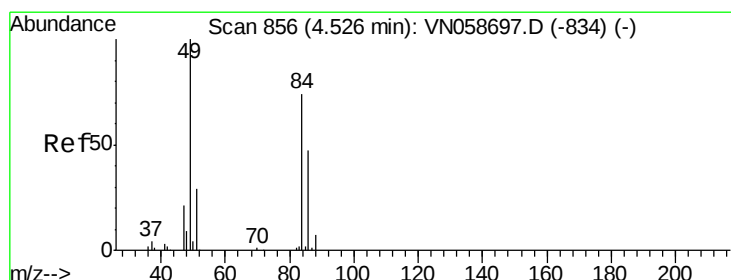
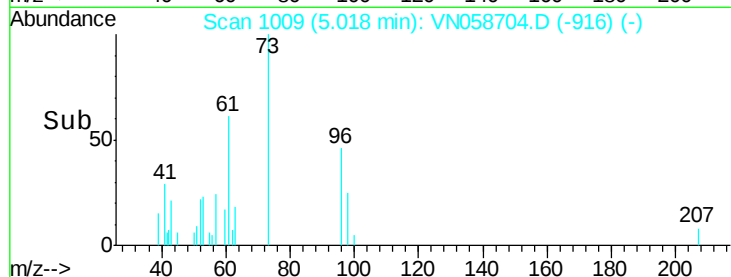
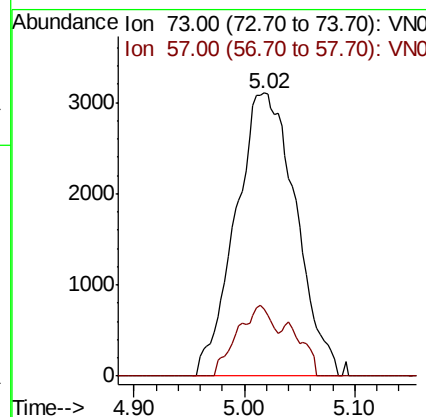
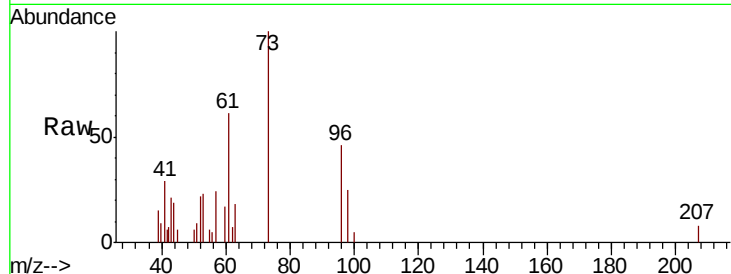
#19
Methvl tert-butvl Ether
Concen: 0.803 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. -0.00 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

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

Tot Ion: 73 Resp: 11753
Ion Ratio Lower Upper
73 100
57 23.7 17.0 25.6

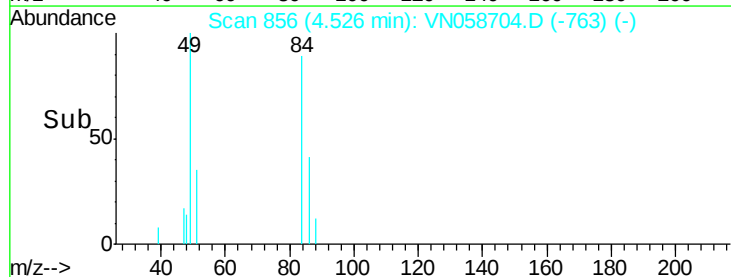
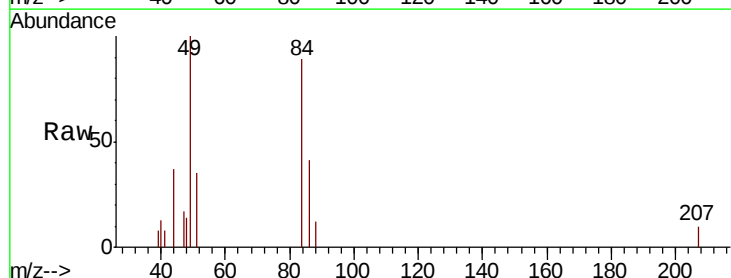
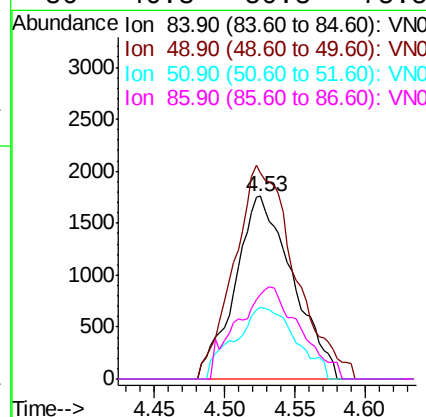
Manual Integrations
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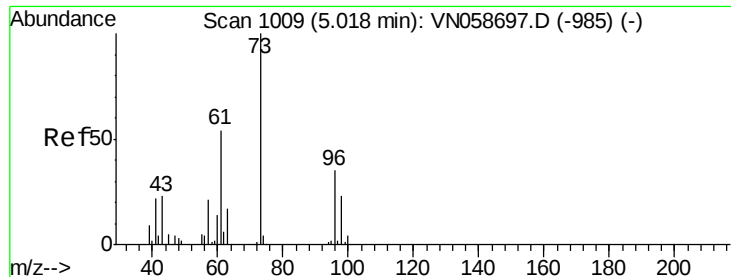
MMDadoda
10/16/2019 12:48:33 AM



#20
Methylene Chloride
Concen: 0.971 ug/l
RT: 4.53 min Scan# 856
Delta R.T. -0.00 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

Tgt Ion: 84 Resp: 5019
Ion Ratio Lower Upper
84 100
49 112.6 107.6 161.4
51 39.0 31.4 47.0
86 46.3 50.3 75.5#





#21

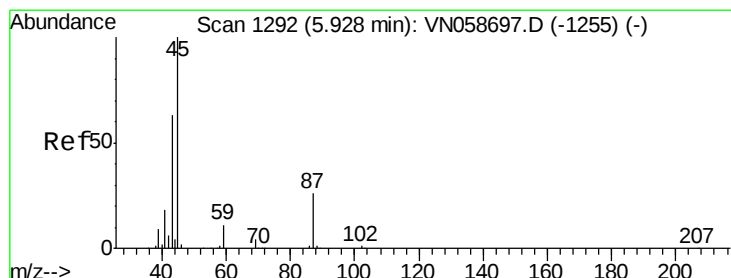
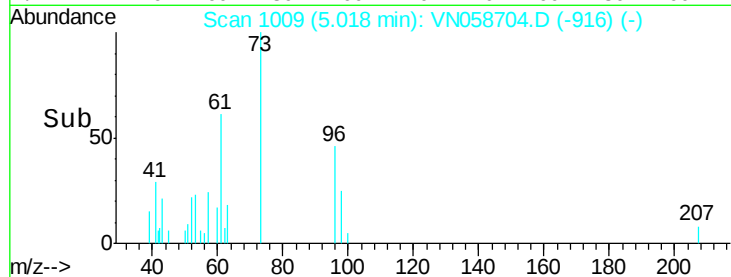
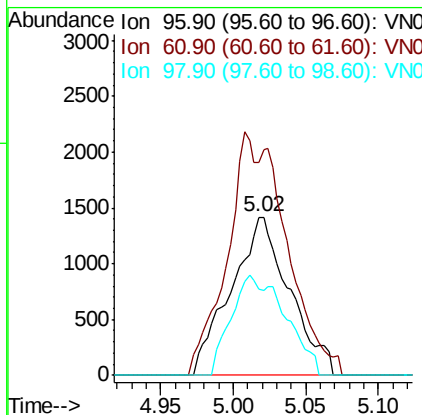
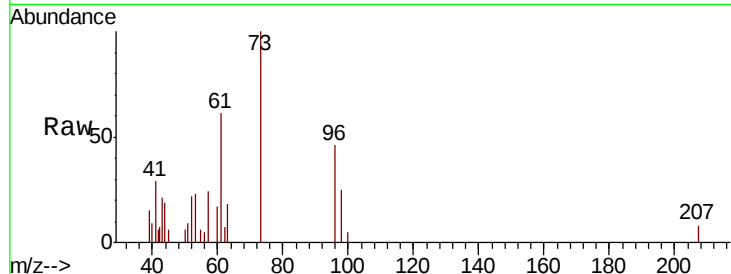
trans-1,2-Dichloroethene
Concen: 0.870 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. -0.00 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

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

Tot Ion	Ratio	Lower	Upper
96	100		
61	134.6	123.6	185.4
98	54.9	52.1	78.1

Manual Integrations
APPROVED

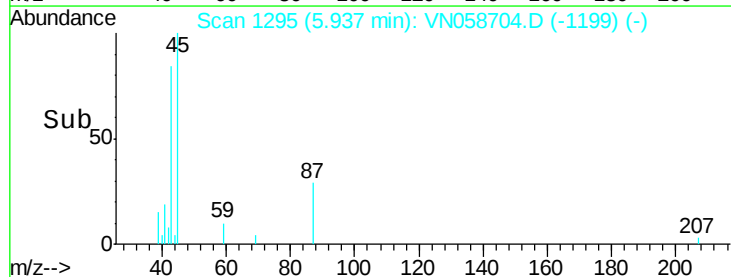
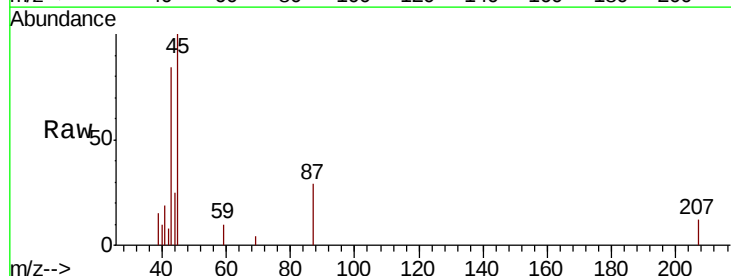
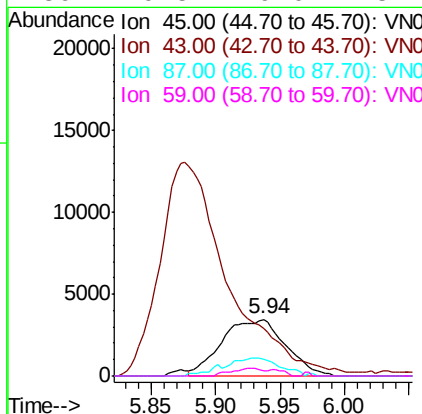
MMDadoda
10/16/2019 12:48:33 AM

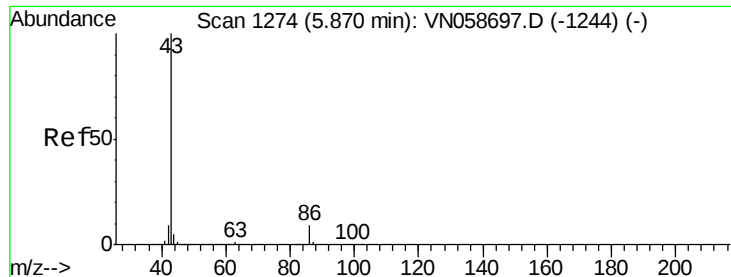


#22

Diisopropyl ether
Concen: 0.738 ug/l
RT: 5.94 min Scan# 1295
Delta R.T. 0.01 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

Tgt Ion	Ratio	Lower	Upper
45	100		
43	72.2	50.6	75.8
87	28.8	21.1	31.7
59	9.5	9.0	13.4





#23

Vinyl Acetate

Concen: 3.708 ug/l

RT: 5.88 min Scan# 1276

Delta R.T. 0.01 min

Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 43 Resp: 48117

Ion Ratio Lower Upper

43 100

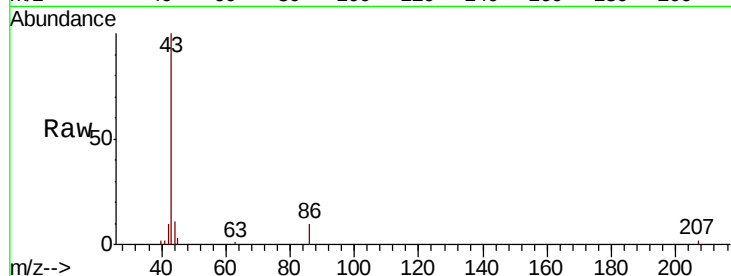
86 9.8 7.4 11.0

Manual Integrations

APPROVED

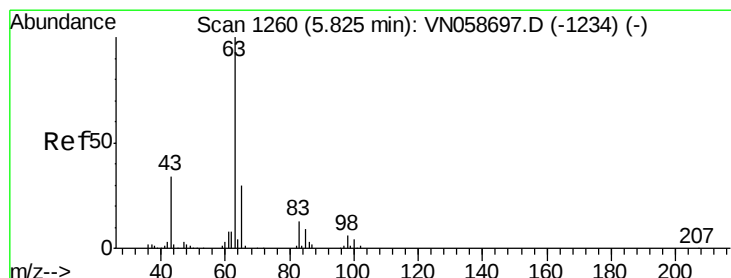
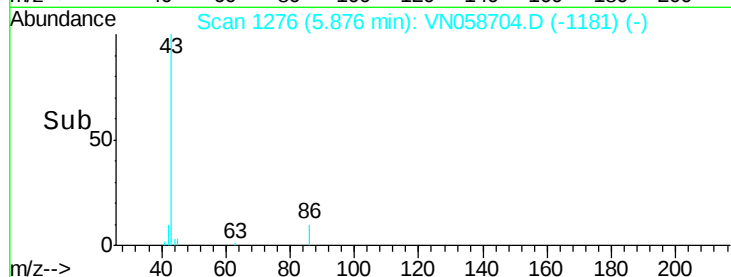
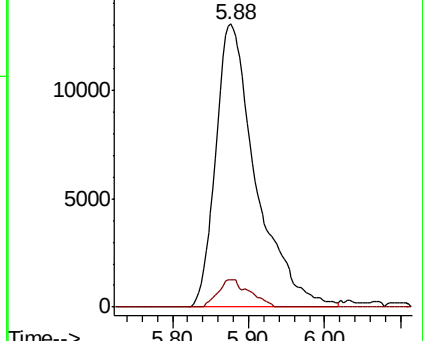
MMDadoda

10/16/2019 12:48:33 AM



Abundance Ion 43.00 (42.70 to 43.70): VN058704.D (-1181) (-)

Ion 86.00 (85.70 to 86.70): VN058704.D (-1181) (-)



#24

1,1-Dichloroethane

Concen: 0.797 ug/l

RT: 5.83 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

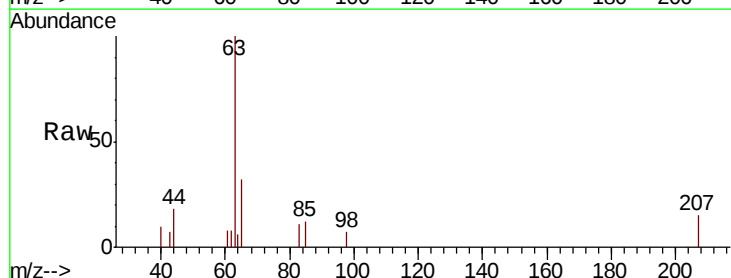
Tgt Ion: 63 Resp: 7299

Ion Ratio Lower Upper

63 100

98 7.3 2.9 8.6

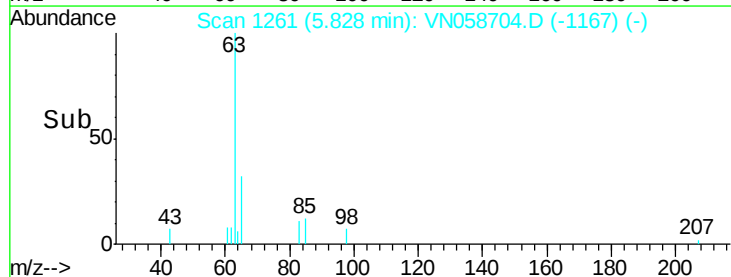
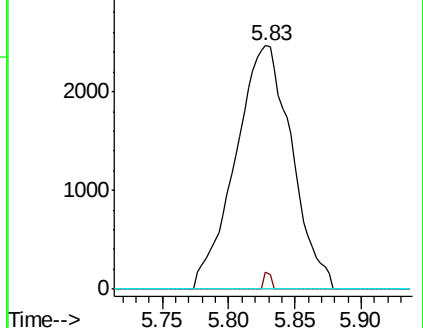
100 0.0 1.8 5.5#

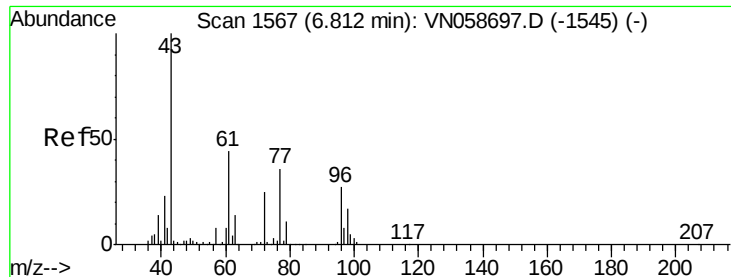


Abundance Ion 62.90 (62.60 to 63.60): VN058704.D (-1167) (-)

Ion 97.90 (97.60 to 98.60): VN058704.D (-1167) (-)

Ion 99.90 (99.60 to 100.60): VN058704.D (-1167) (-)





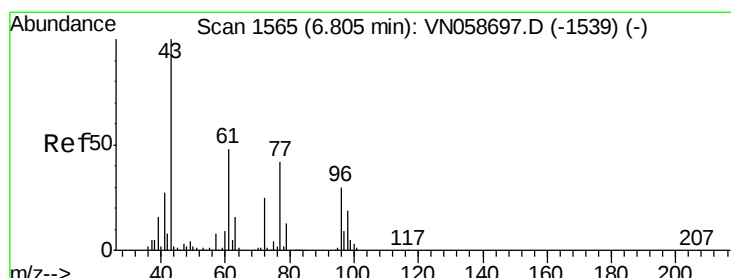
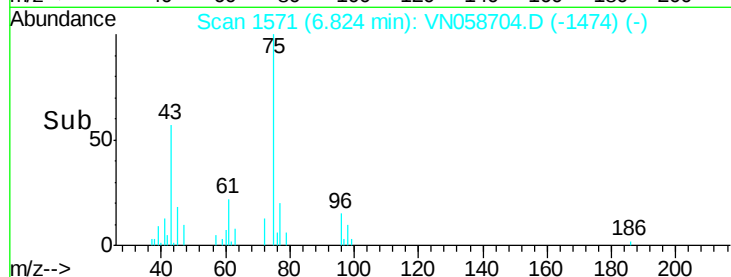
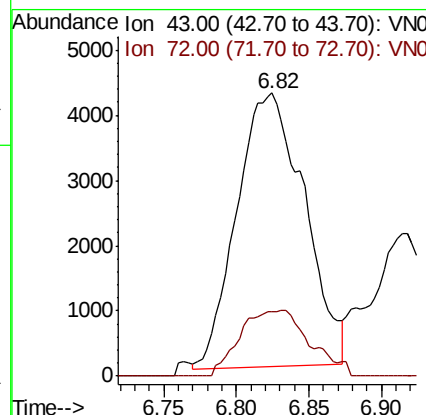
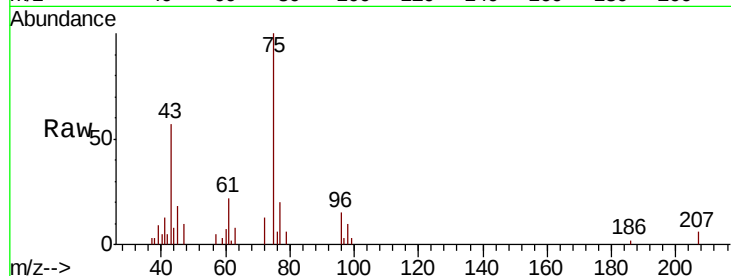
#25
2-Butanone
Concen: 3.793 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.01 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

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

Tot Ion: 43 Resp: 13562
Ion Ratio Lower Upper
43 100
72 23.9 20.2 30.2

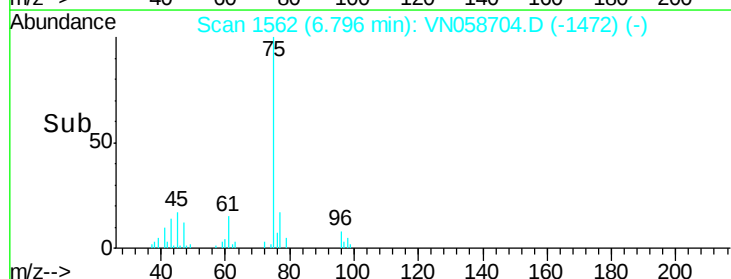
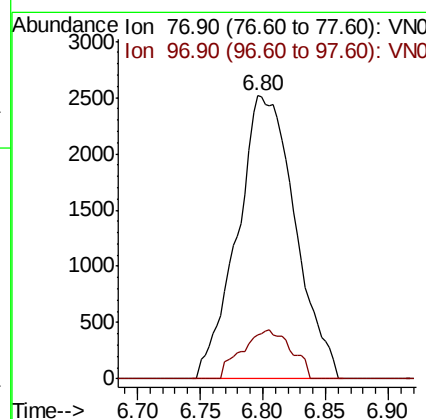
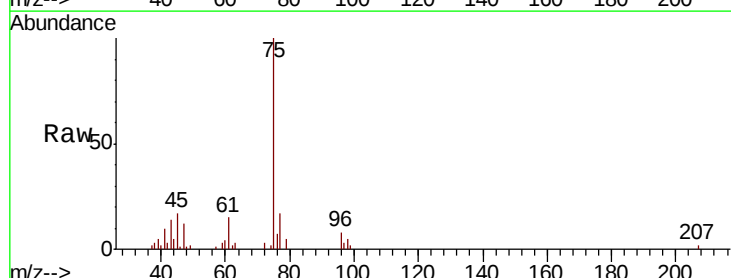
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#26
2,2-Dichloropropane
Concen: 0.964 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. -0.01 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

Tgt Ion: 77 Resp: 8064
Ion Ratio Lower Upper
77 100
97 14.7 10.7 31.9





#27

cis-1,2-Dichloroethene

Concen: 0.827 ug/l

RT: 6.81 min Scan# 1568

Delta R.T. 0.01 min

Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

Instrument :

MSVOA_N

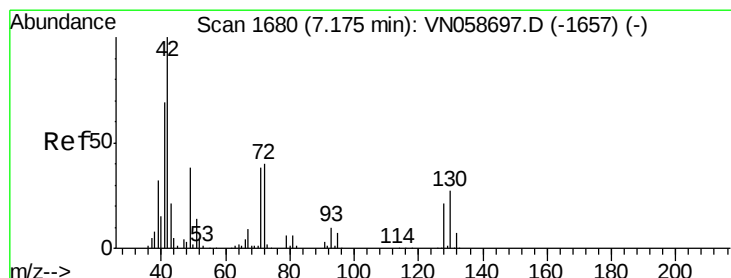
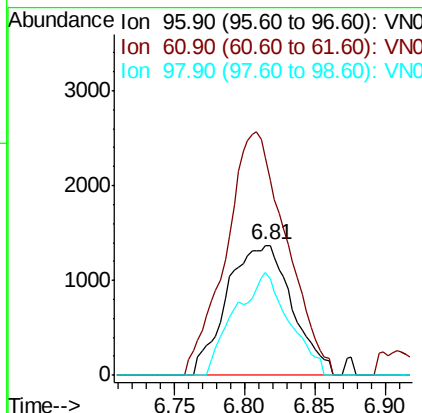
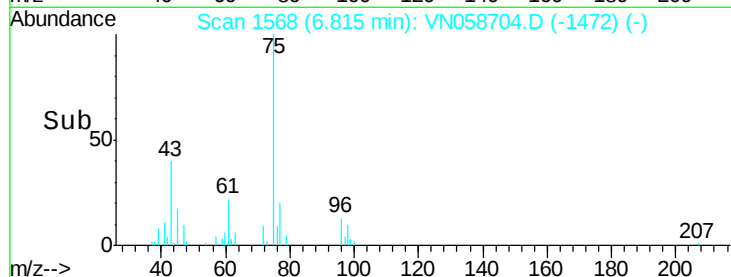
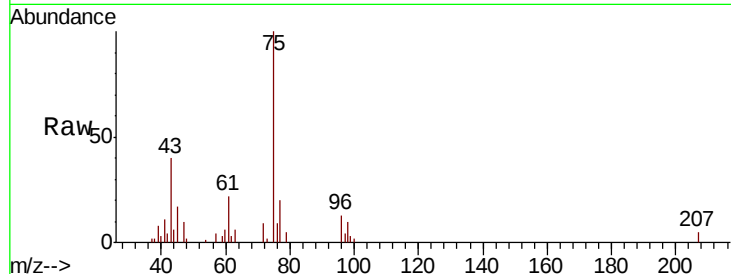
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	96	Resp:	4419
Ion	Ratio	Lower	Upper
96	100		
61	173.5	0.0	324.8
98	65.4	0.0	129.2

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#28

Bromochloromethane

Concen: 0.868 ug/l

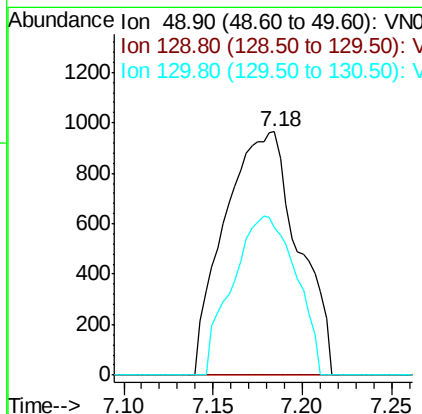
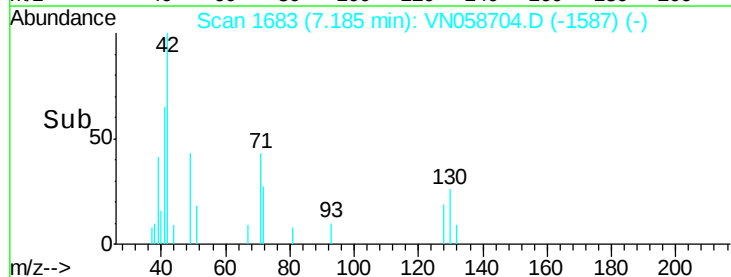
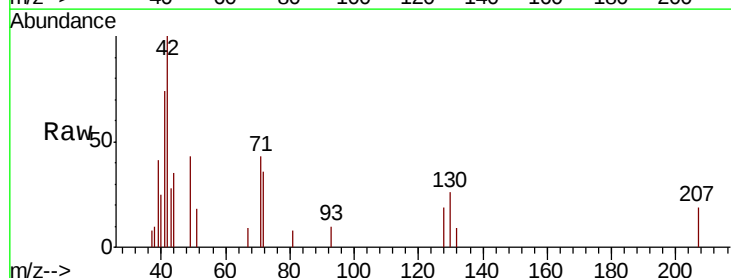
RT: 7.18 min Scan# 1683

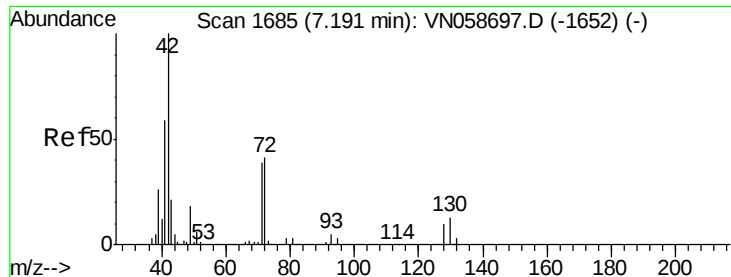
Delta R.T. 0.01 min

Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

Tgt Ion:	49	Resp:	2766
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	56.4	55.0	82.4





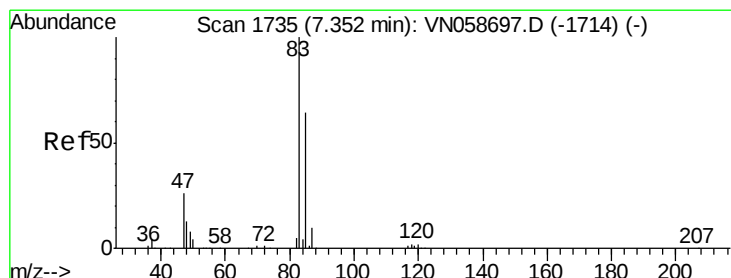
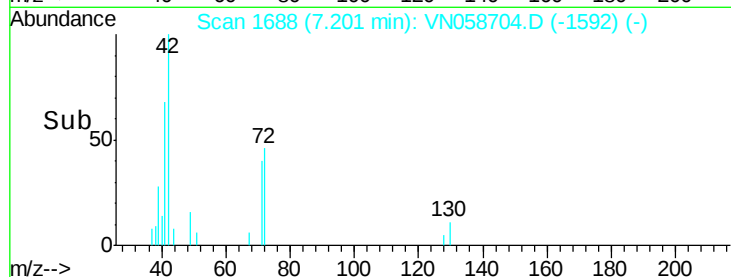
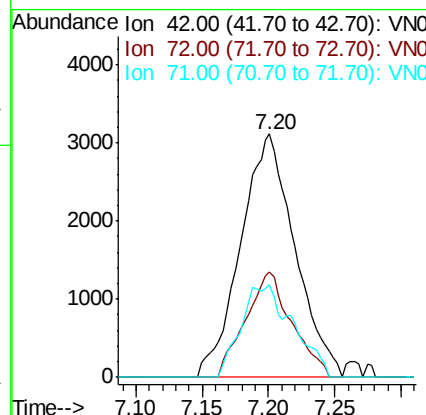
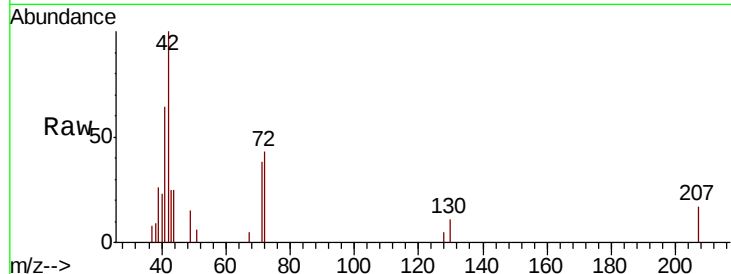
#29
Tetrahydrofuran
Concen: 3.845 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.01 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

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

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.8	32.8	49.2
71	15.3	31.1	46.7#

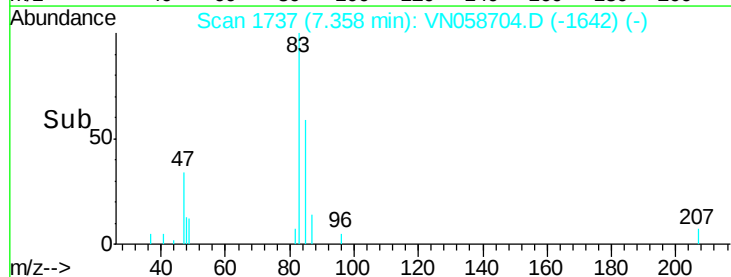
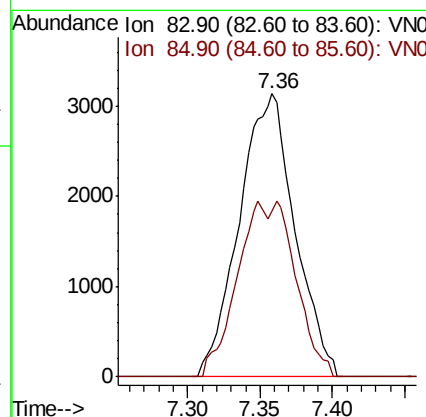
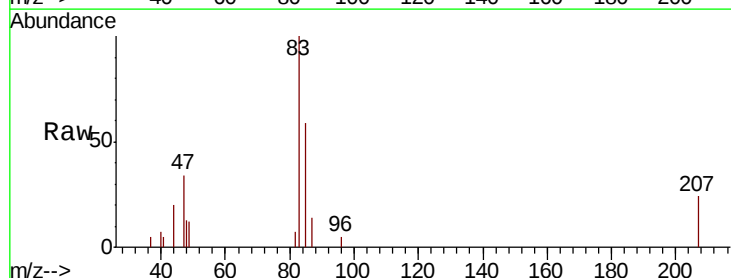
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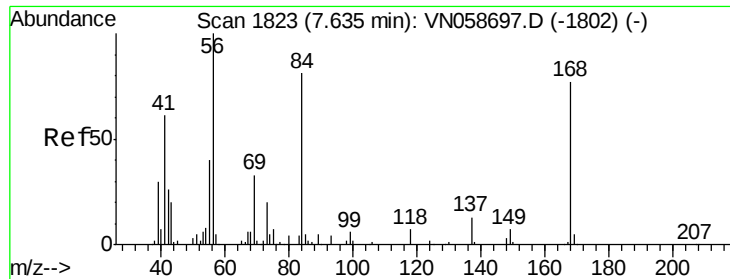
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#30
Chloroform
Concen: 0.910 ug/l
RT: 7.36 min Scan# 1737
Delta R.T. 0.01 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

Tgt Ion	Ratio	Lower	Upper
83	100		
85	58.7	51.0	76.6





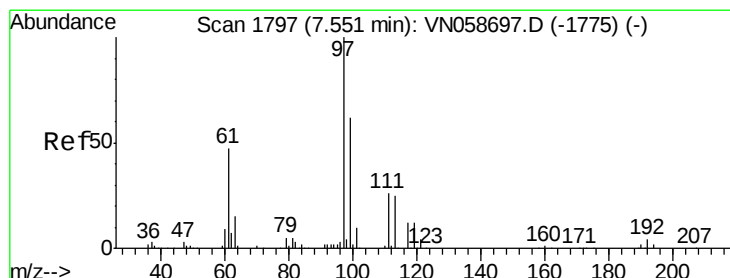
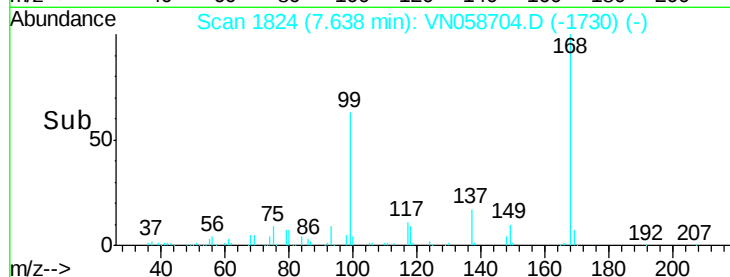
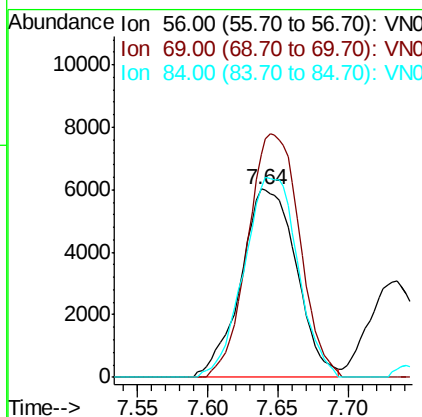
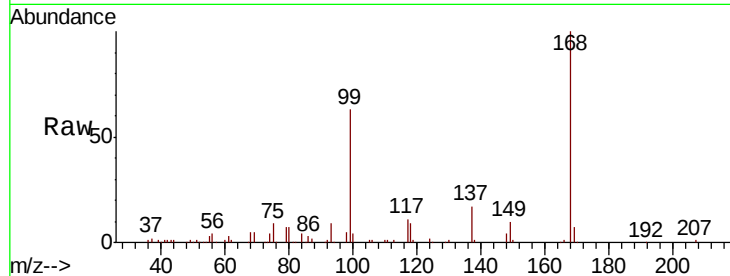
#31
Cyclohexane
Concen: 1.893 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.00 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

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

Tot Ion	Ratio	Lower	Upper
56	100		
69	118.7	26.2	39.4#
84	101.2	64.9	97.3#

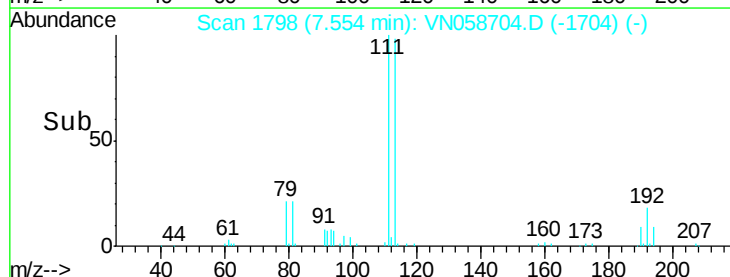
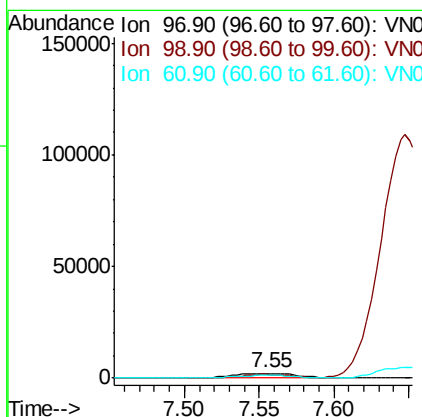
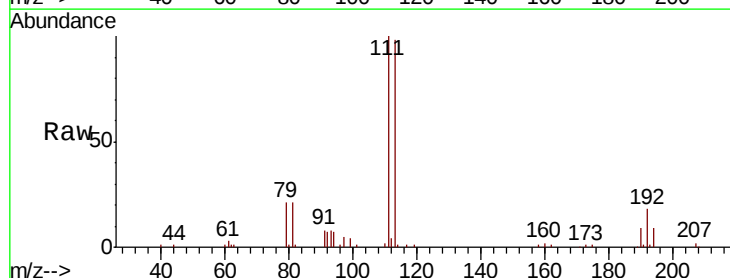
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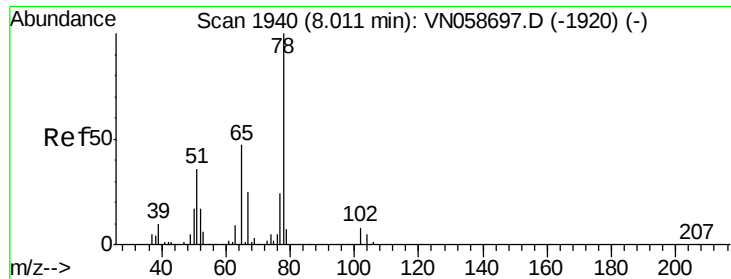
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#32
1,1,1-Trichloroethane
Concen: 0.798 ug/l
RT: 7.55 min Scan# 1798
Delta R.T. 0.00 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

Tgt Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.8	76.2#
61	52.1	38.1	57.1





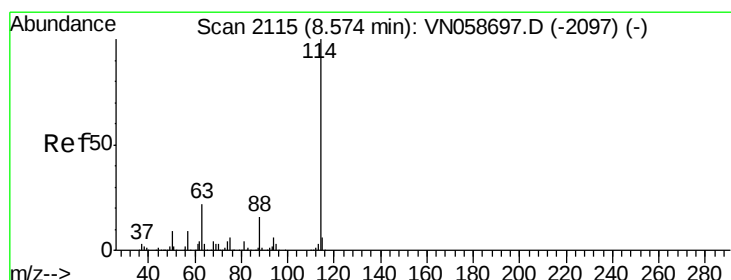
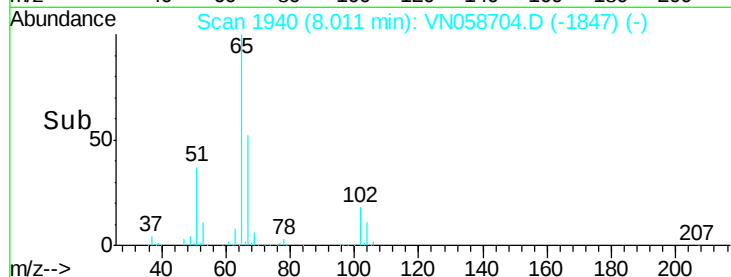
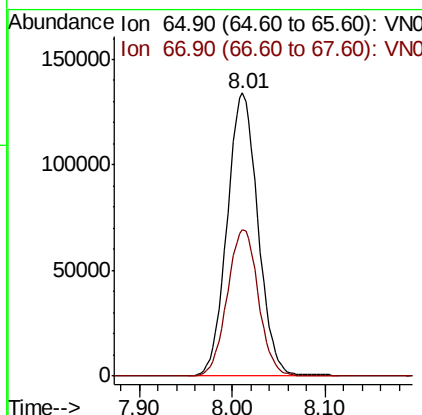
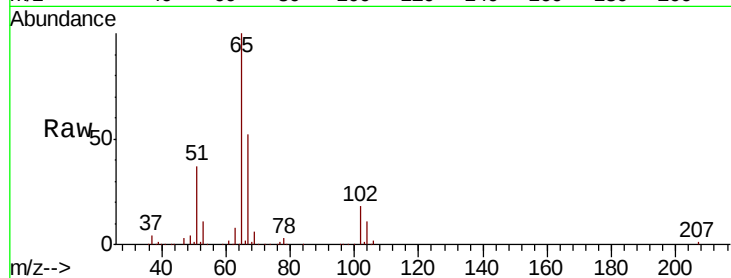
#33
 1,2-Dichloroethane-d4
 Concen: 51.929 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN058704.D
 Acq: 11 Oct 2019 15:36

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

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	52.3	0.0	103.8	

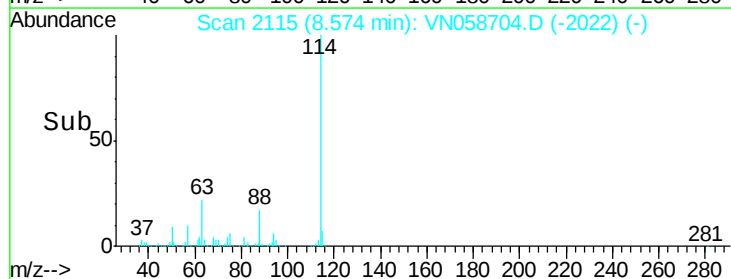
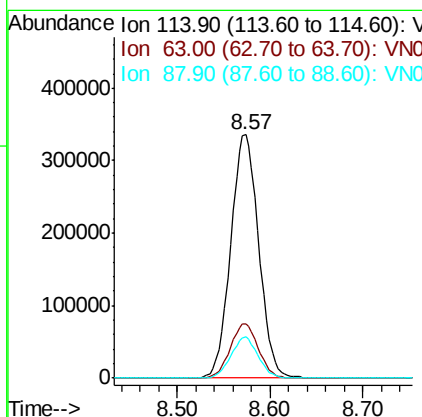
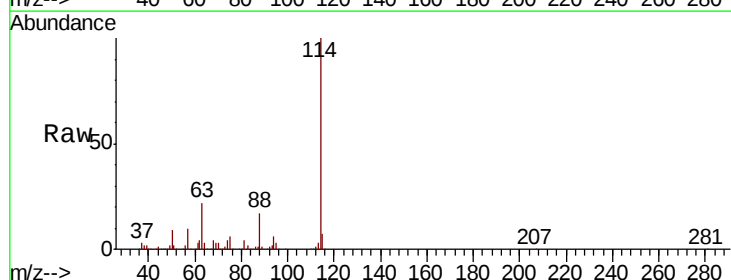
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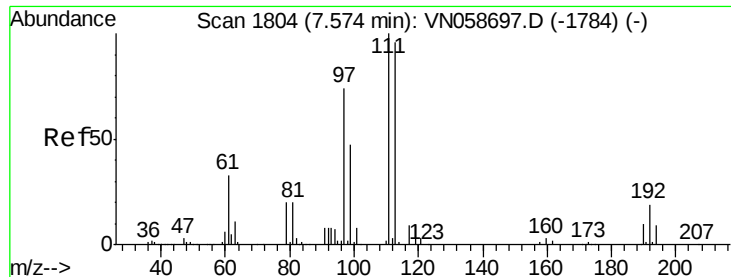
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058704.D
 Acq: 11 Oct 2019 15:36

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	22.3	0.0	43.8	
88	16.8	0.0	32.0	





#35

Dibromofluoromethane

Concen: 50.855 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. -0.00 min

Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

Instrument :

MSVOA_N

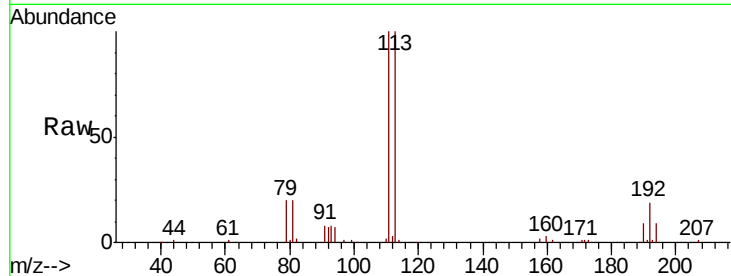
ClientSampleId :

LOQ-WATER-02-QT4-2019

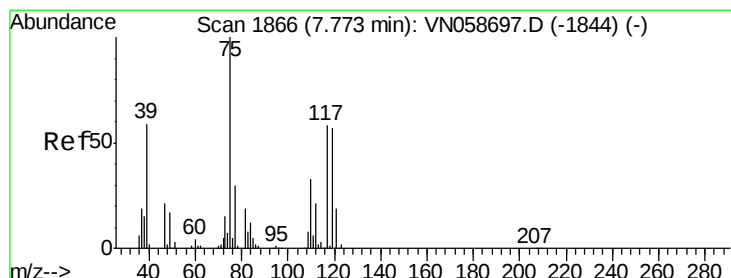
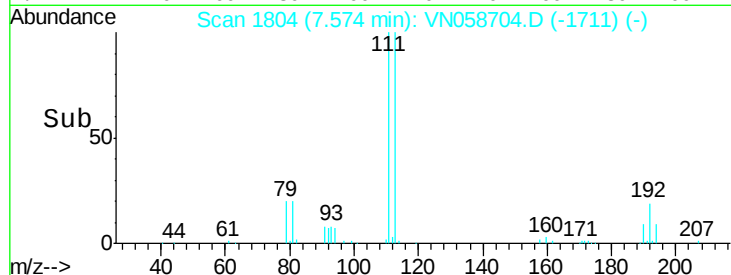
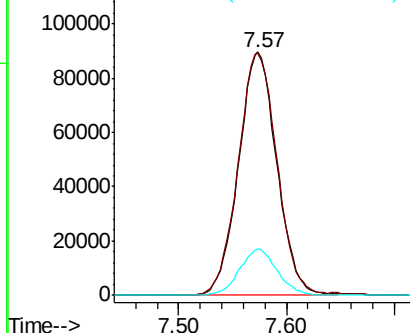
Tot Ion:	113	Resp:	220685
Ion Ratio	Lower	Upper	
113	100		
111	101.4	82.3	123.5
192	18.8	15.0	22.6

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



#36

1,1-Dichloropropene

Concen: 0.818 ug/l

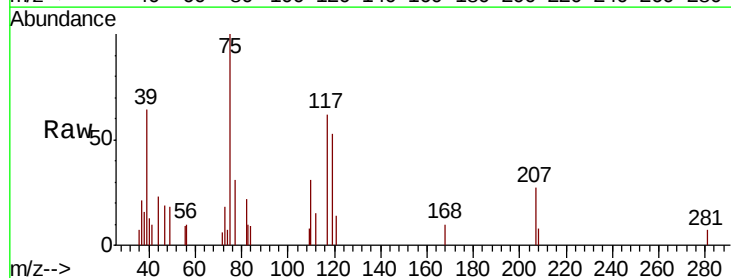
RT: 7.77 min Scan# 1866

Delta R.T. -0.00 min

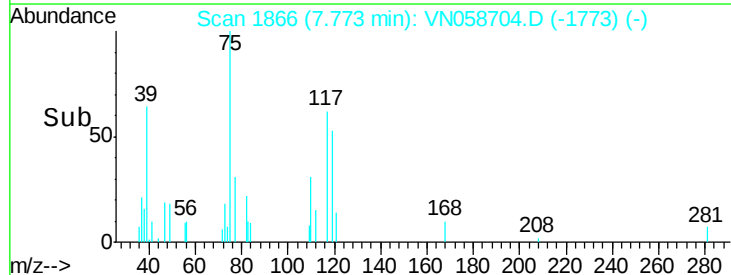
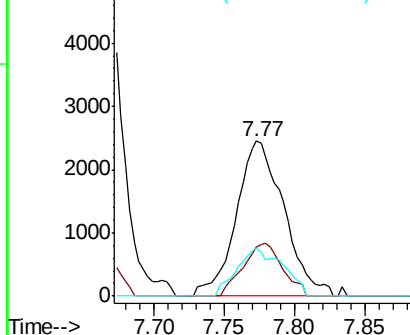
Lab File: VN058704.D

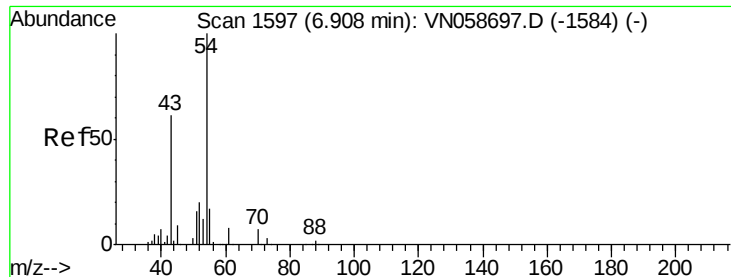
Acq: 11 Oct 2019 15:36

Tgt Ion:	75	Resp:	5810
Ion Ratio	Lower	Upper	
75	100		
110	28.2	16.6	49.8
77	29.4	24.6	37.0



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): V





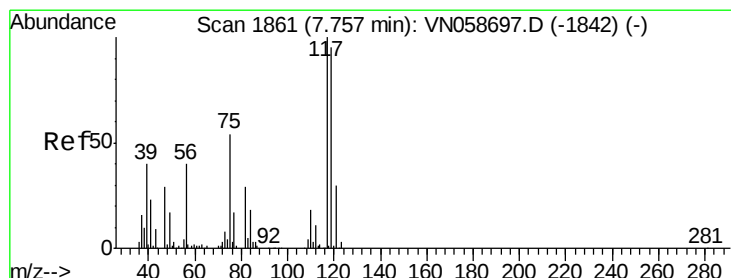
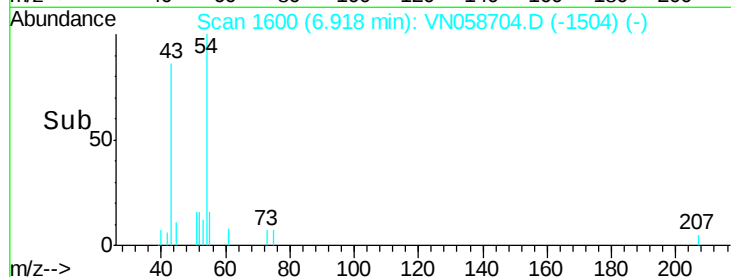
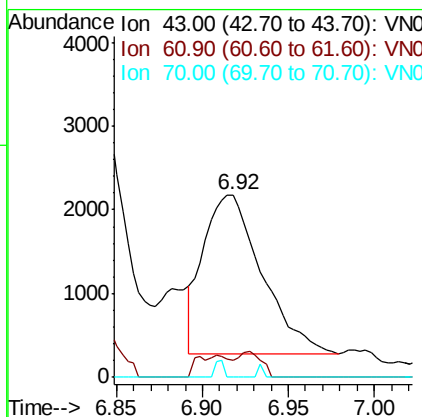
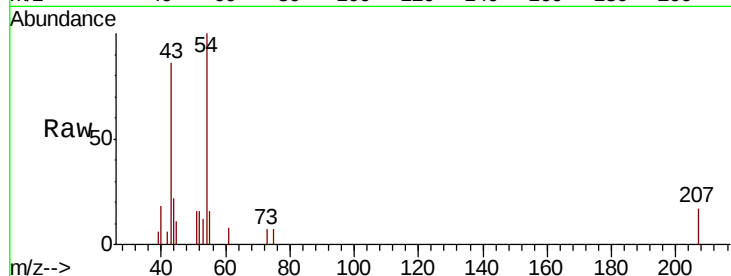
#37
Ethyl Acetate
Concen: 0.622 ug/l
RT: 6.92 min Scan# 1600
Delta R.T. 0.01 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

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

Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.3	16.9#
70	1.7	7.2	10.8#

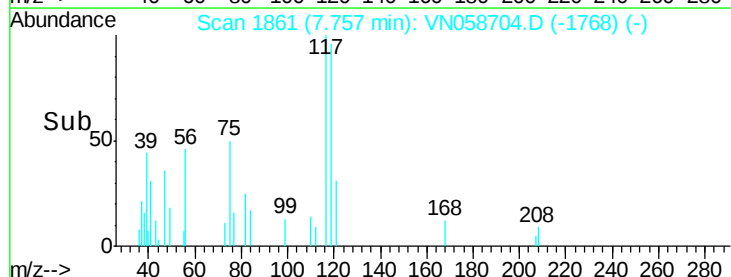
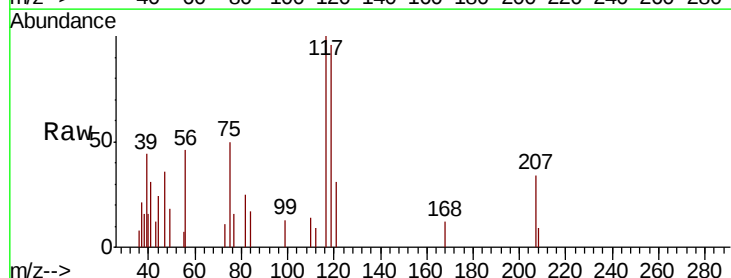
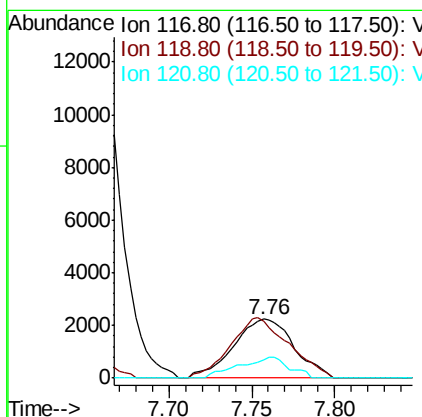
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#38
Carbon Tetrachloride
Concen: 0.822 ug/l
RT: 7.76 min Scan# 1861
Delta R.T. -0.00 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.6	75.7	113.5
121	30.5	23.9	35.9





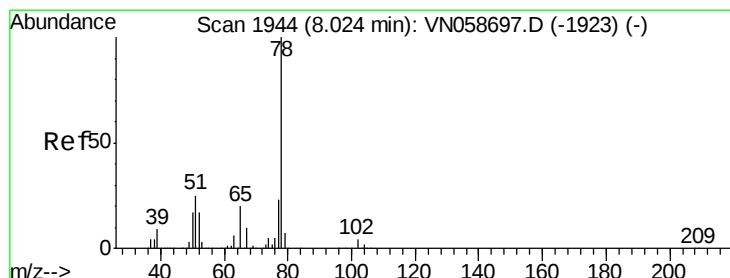
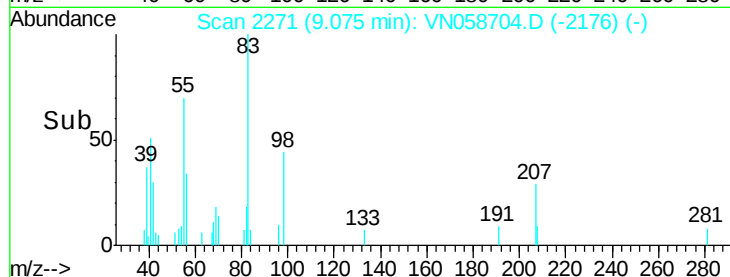
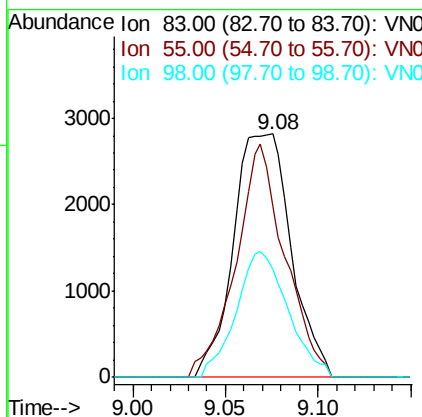
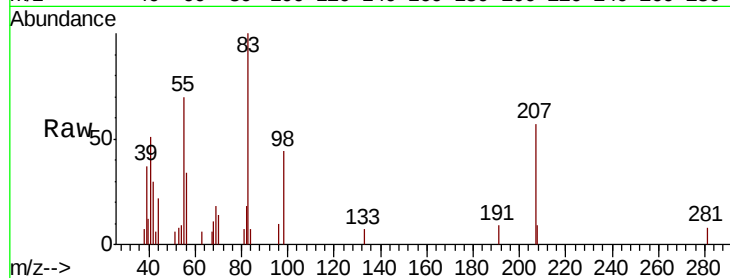
#39
Methvlcvclohexane
Concen: 0.739 ug/l
RT: 9.08 min Scan# 2271
Delta R.T. 0.01 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

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

Tot Ion	Ratio	Lower	Upper
83	100		
55	70.2	63.4	95.0
98	44.1	35.1	52.7

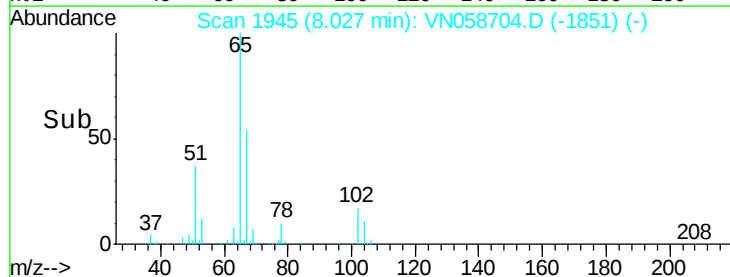
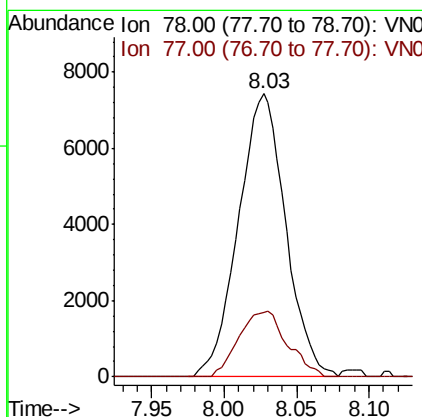
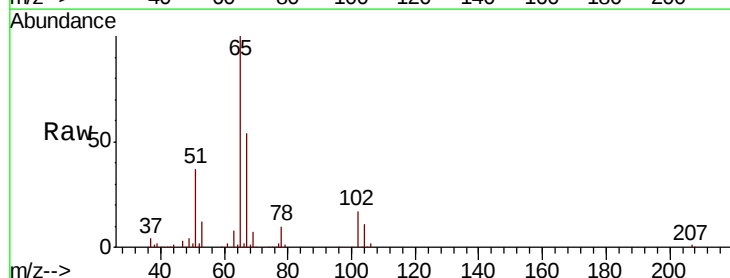
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#40
Benzene
Concen: 0.825 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.7	18.8	28.2





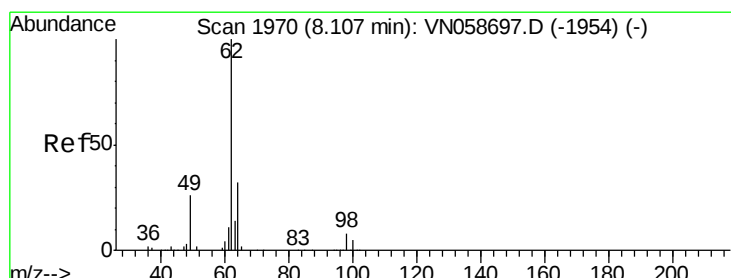
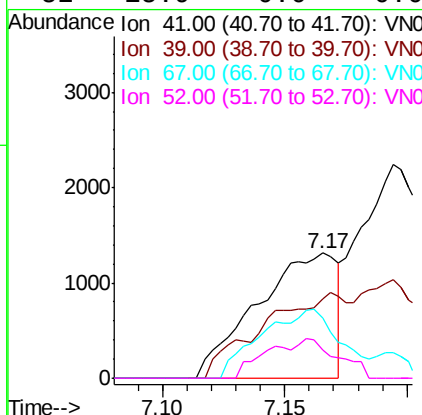
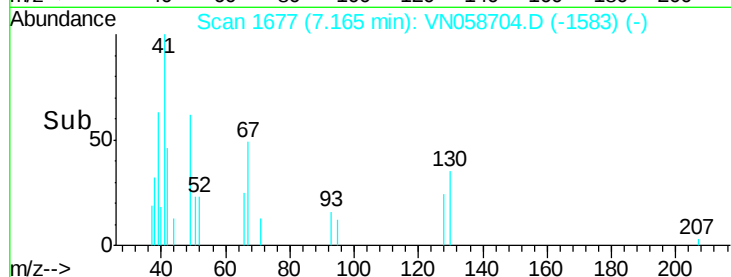
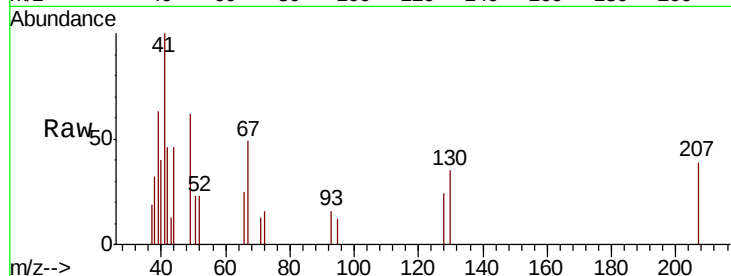
#41
Methacrylonitrile
Concen: 0.892 ug/l
RT: 7.17 min Scan# 1677
Delta R.T. 0.00 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

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

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	69.4	115.4	173.2#	
67	54.5	0.0	0.0#	
52	15.9	0.0	0.0#	

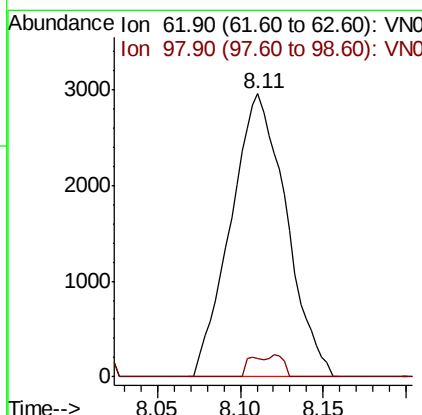
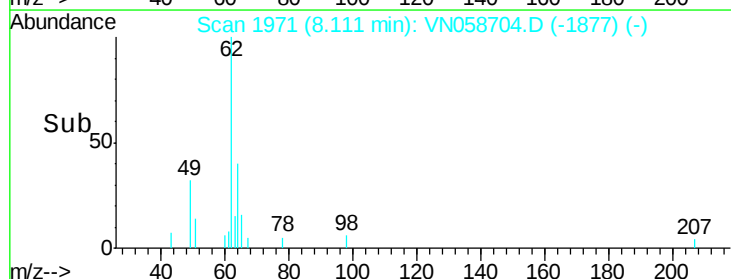
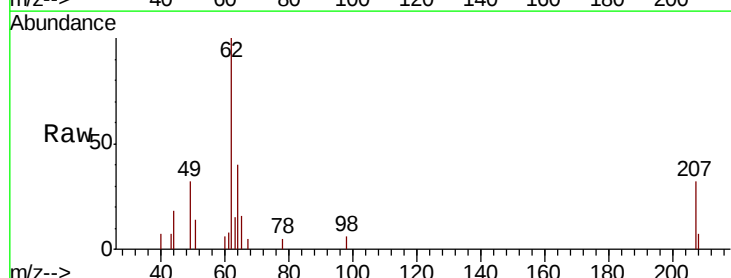
Manual Integrations
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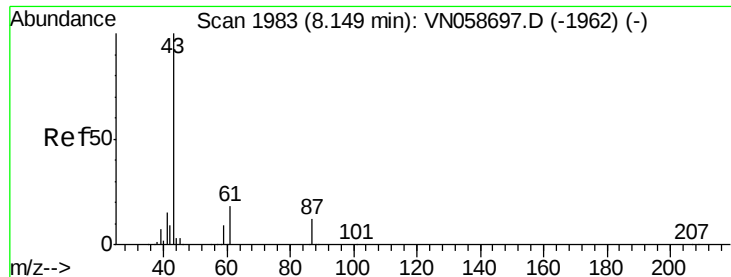
MMDadoda
10/16/2019 12:48:33 AM



#42
1,2-Dichloroethane
Concen: 0.879 ug/l
RT: 8.11 min Scan# 1971
Delta R.T. 0.00 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	2.1	0.0	15.8	





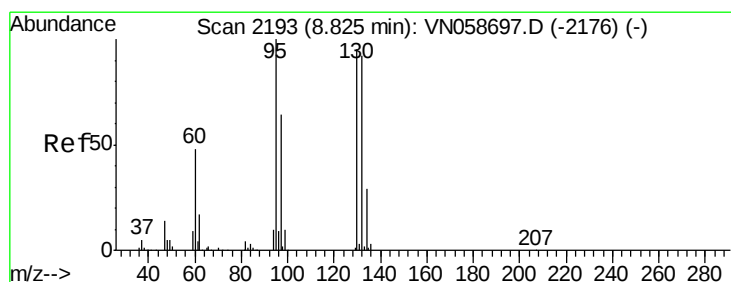
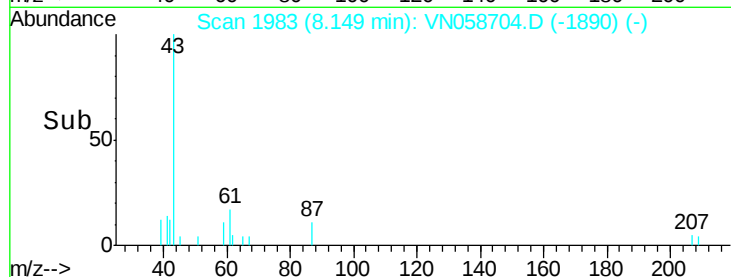
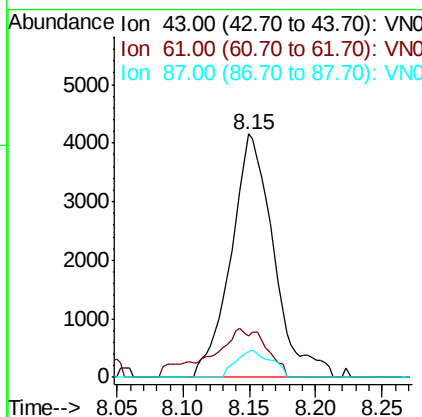
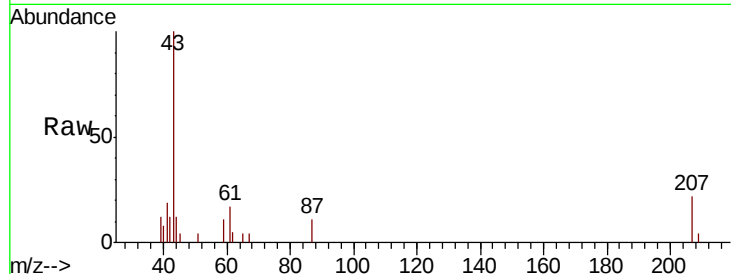
#43
Isopropyl Acetate
Concen: 0.759 ug/l
RT: 8.15 min Scan# 1983
Delta R.T. -0.00 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

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

Tot Ion	Ratio	Lower	Upper
43	100		
61	18.1	20.3	30.5#
87	9.0	9.8	14.6#

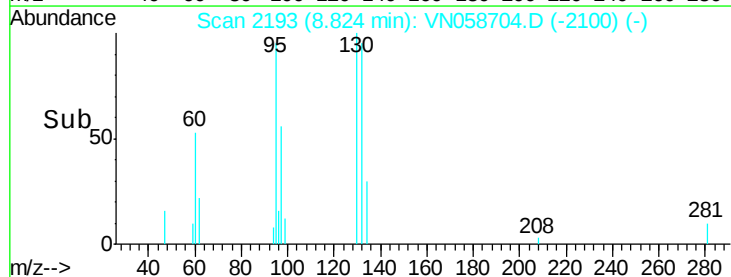
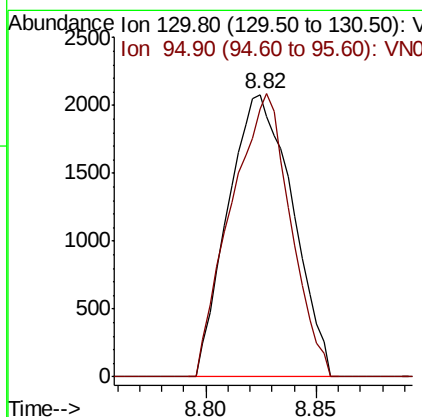
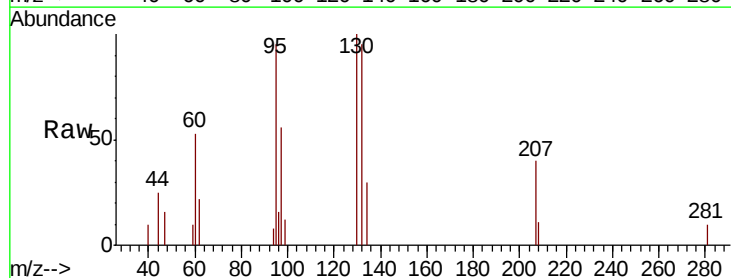
Manual Integrations
APPROVED

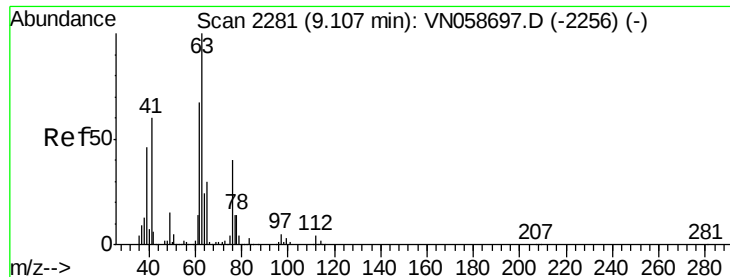
MMDadoda
10/16/2019 12:48:33 AM



#44
Trichloroethene
Concen: 0.832 ug/l
RT: 8.82 min Scan# 2193
Delta R.T. -0.00 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

Tgt Ion	Ratio	Lower	Upper
130	100		
95	94.9	0.0	211.2





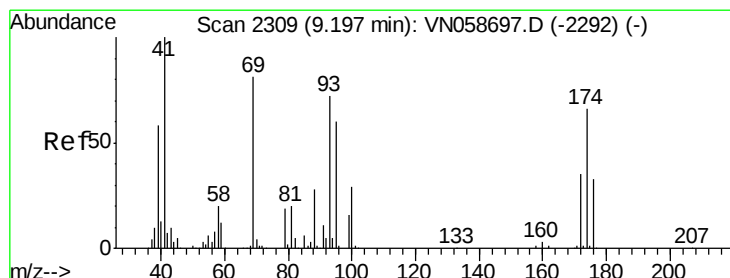
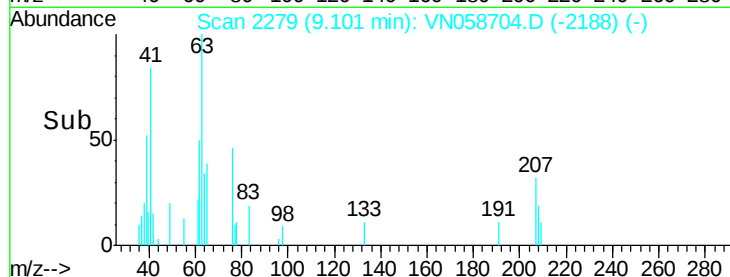
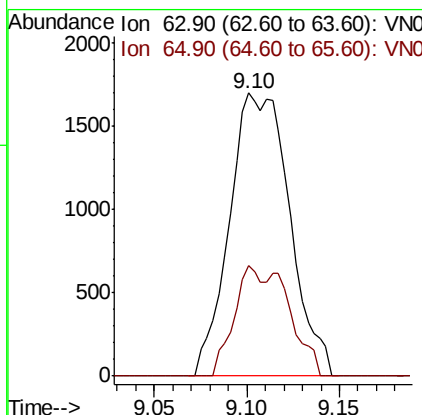
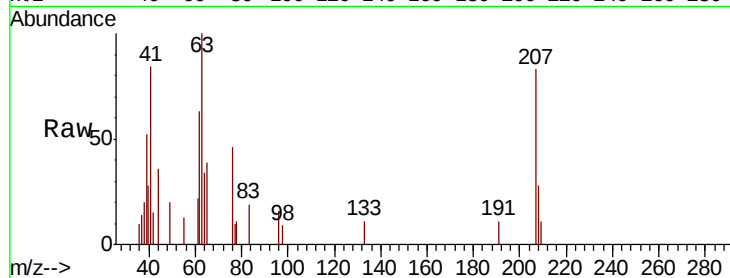
#45
 1,2-Dichloropropane
 Concen: 0.700 ug/l
 RT: 9.10 min Scan# 2279
 Delta R.T. -0.01 min
 Lab File: VN058704.D
 Acq: 11 Oct 2019 15:36

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

Tot Ion: 63 Resp: 3824
 Ion Ratio Lower Upper
 63 100
 65 39.0 24.1 36.1#

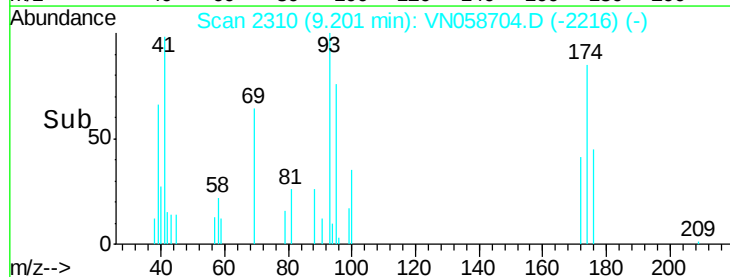
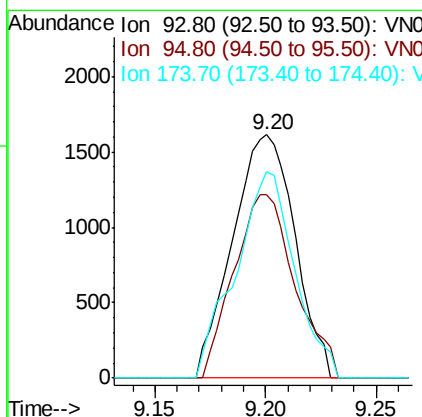
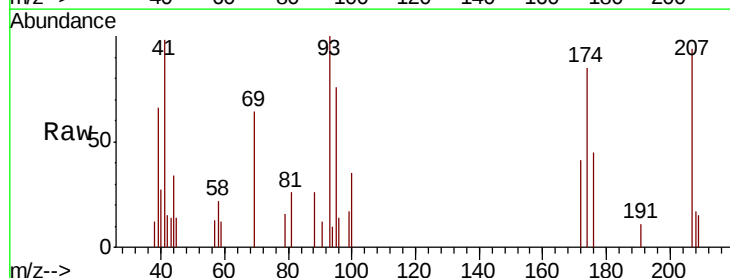
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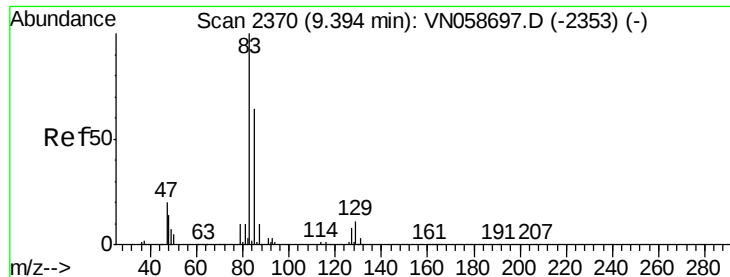
MMDadoda
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#46
 Dibromomethane
 Concen: 0.911 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN058704.D
 Acq: 11 Oct 2019 15:36

Tgt Ion: 93 Resp: 3155
 Ion Ratio Lower Upper
 93 100
 95 74.2 66.6 100.0
 174 80.6 75.2 112.8





#47

Bromodichloromethane

Concen: 0.775 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. -0.00 min

Lab File: VN058704.D

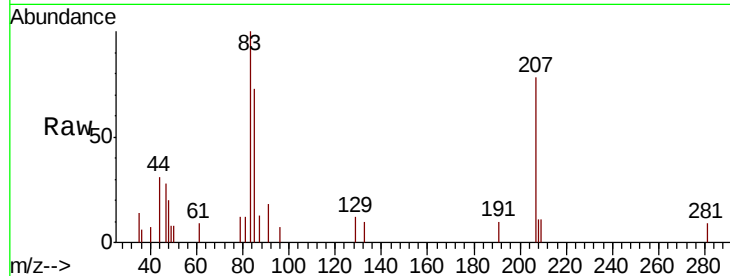
Acq: 11 Oct 2019 15:36

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

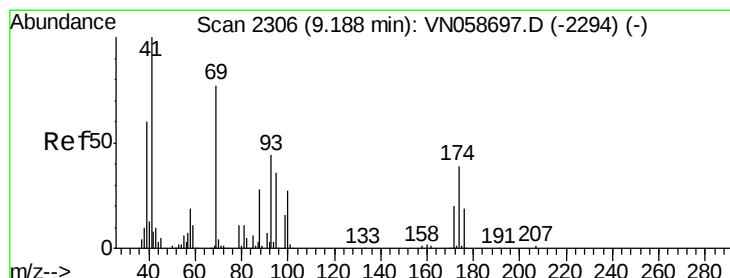
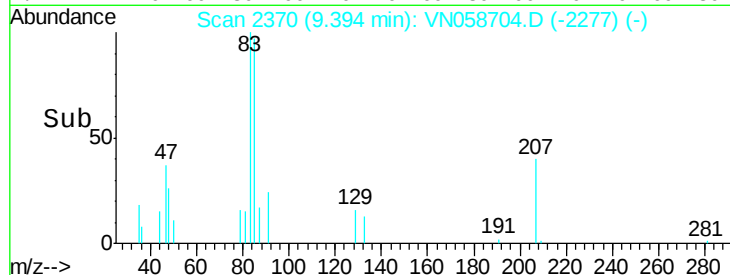
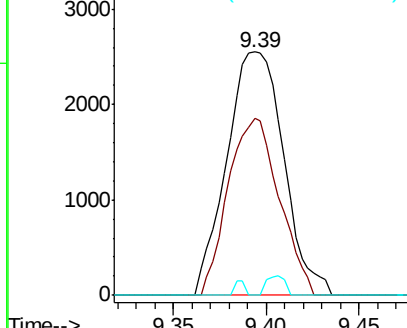
Tot Ion:	83	Resp:	5462
Ion	Ratio	Lower	Upper
83	100		
85	72.9	50.9	76.3
127	0.0	6.3	9.5#

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VNC
Ion 84.90 (84.60 to 85.60): VNC
Ion 126.80 (126.50 to 127.50): VNC



#48

Methyl methacrylate

Concen: 0.757 ug/l

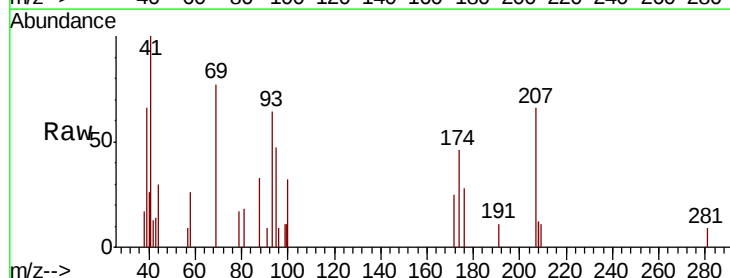
RT: 9.19 min Scan# 2307

Delta R.T. 0.00 min

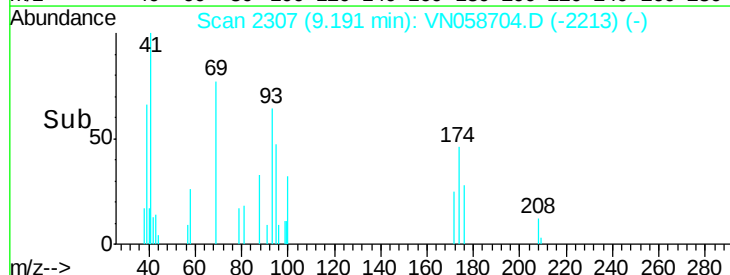
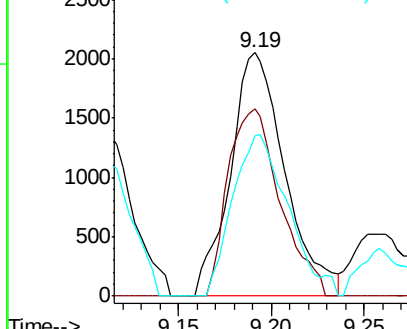
Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

Tgt Ion:	41	Resp:	4199
Ion	Ratio	Lower	Upper
41	100		
69	73.4	63.4	95.2
39	66.9	48.9	73.3



Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC





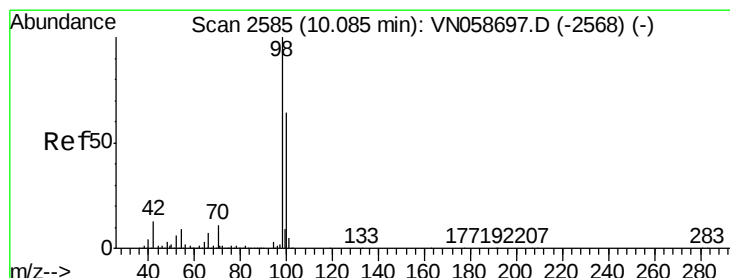
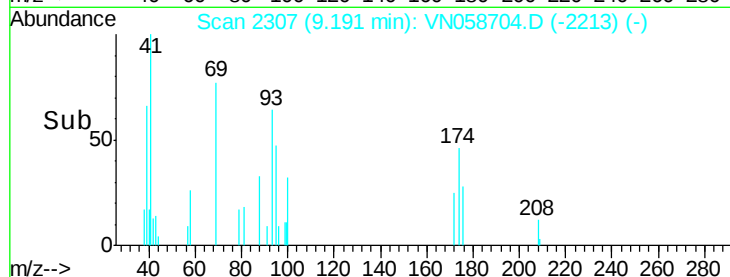
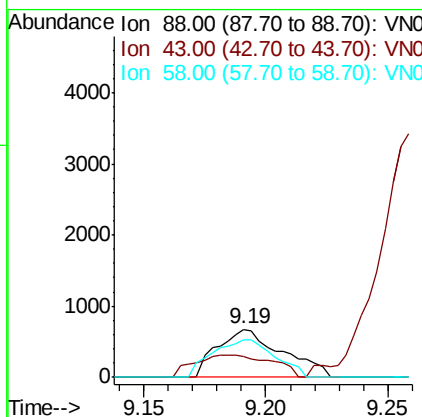
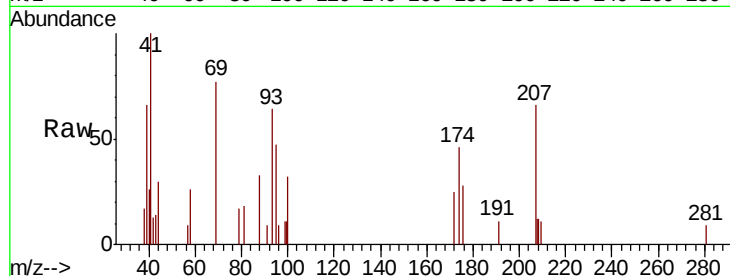
#49
1,4-Dioxane
Concen: 14.554 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. 0.00 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

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

Tot Ion	Ratio	Lower	Upper
88	100		
43	56.0	28.6	43.0#
58	75.3	57.2	85.8

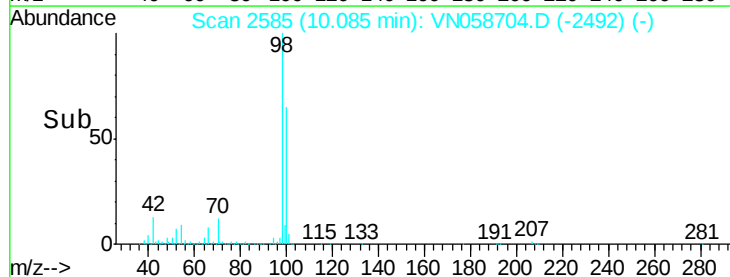
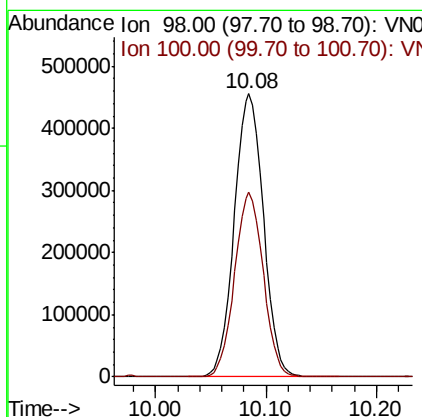
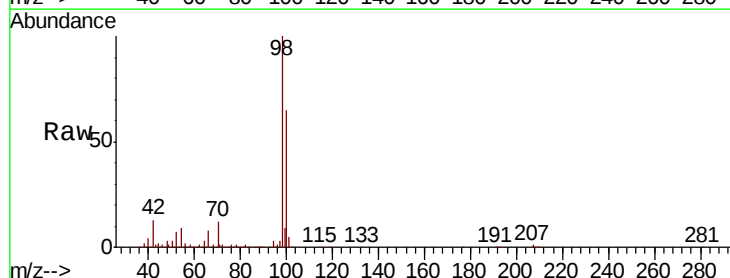
Manual Integrations
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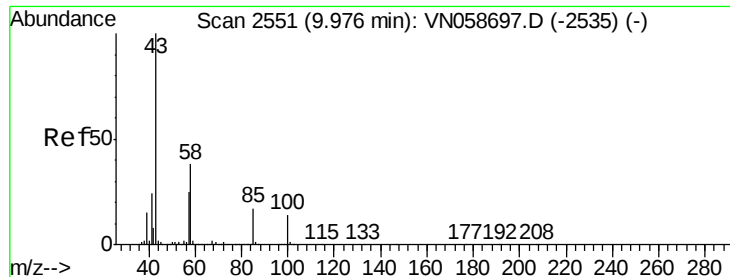
MMDadoda
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#50
Toluene-d8
Concen: 48.134 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.0	51.1	76.7





#51

4-Methyl-2-Pentanone

Concen: 3.635 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 43 Resp: 24982

Ion Ratio Lower Upper

43 100

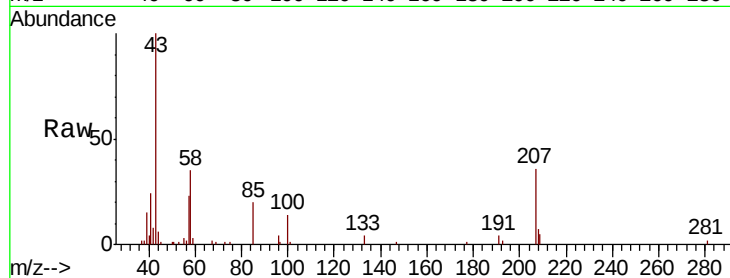
58 36.3 30.3 45.5

Manual Integrations

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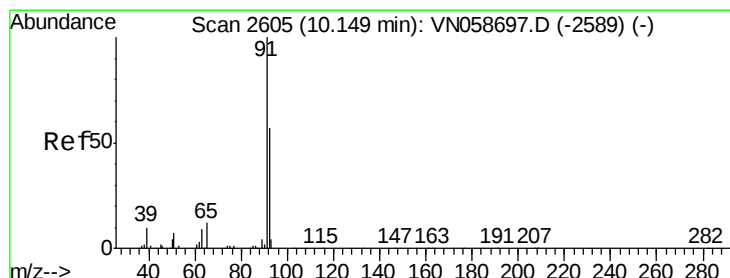
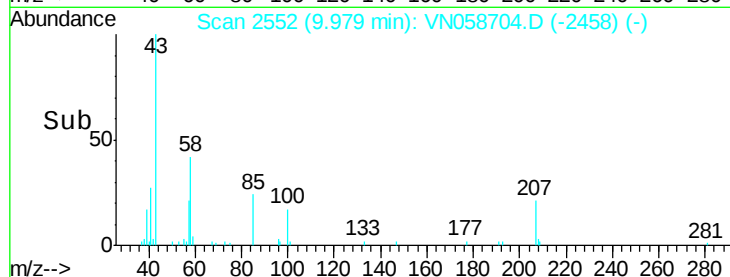
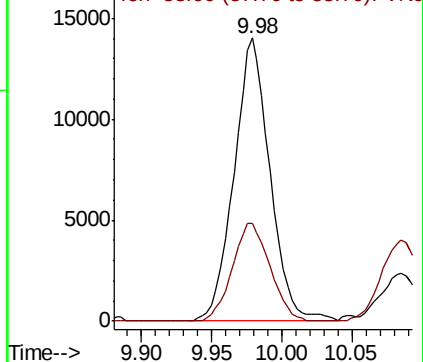
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 0.778 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. -0.00 min

Lab File: VN058704.D

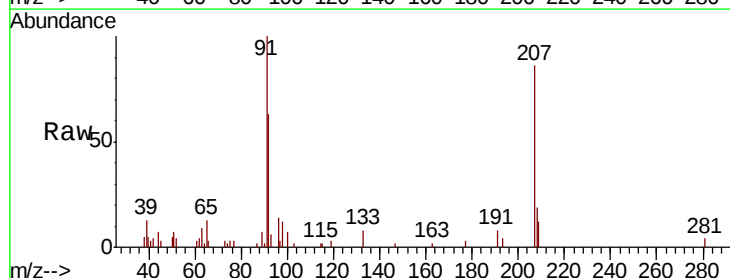
Acq: 11 Oct 2019 15:36

Tgt Ion: 92 Resp: 9709

Ion Ratio Lower Upper

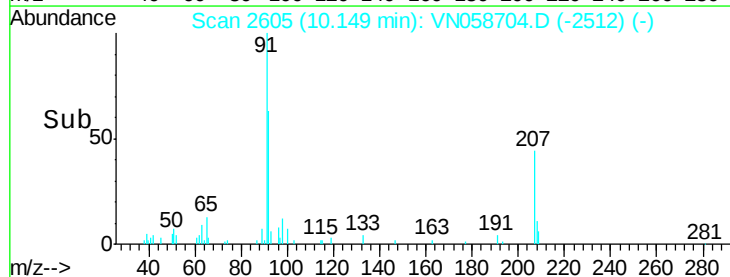
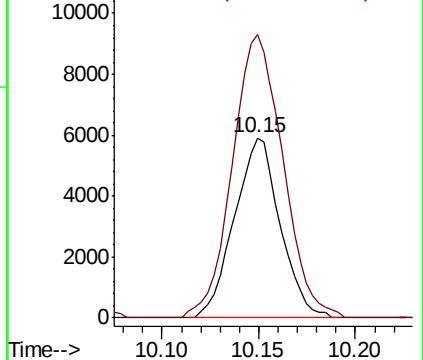
92 100

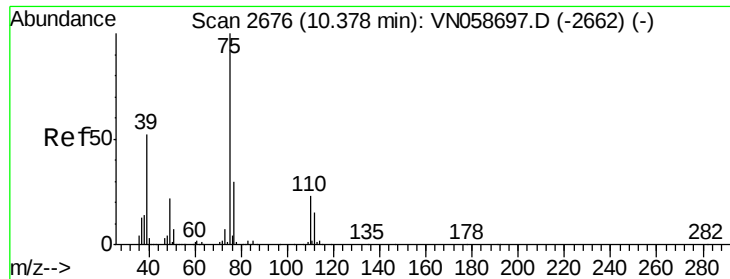
91 174.1 139.1 208.7



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





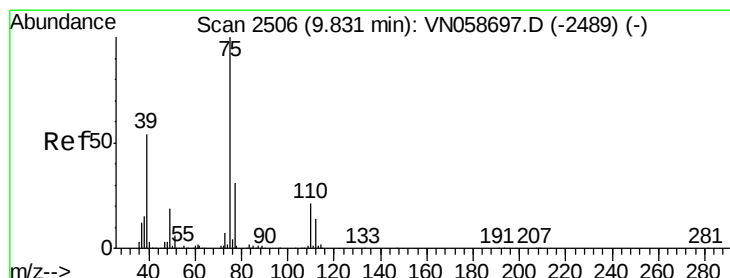
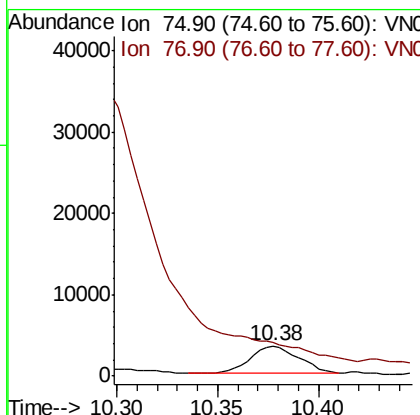
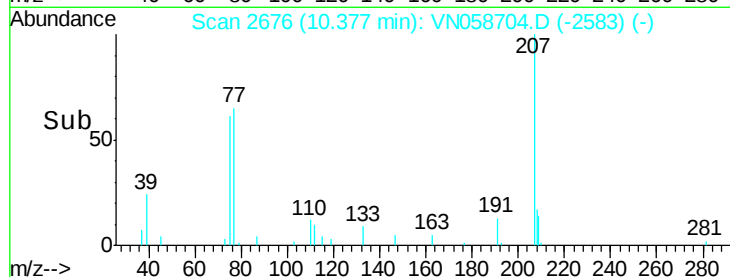
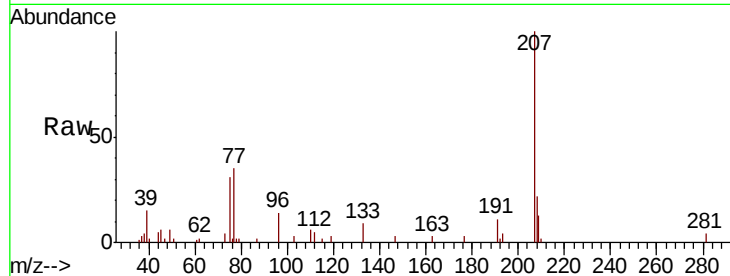
#53
t-1,3-Dichloropropene
Concen: 0.696 ug/l
RT: 10.38 min Scan# 2676
Delta R.T. -0.00 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

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

Tot Ion: 75 Resp: 5627
Ion Ratio Lower Upper
75 100
77 55.2 26.2 39.4#

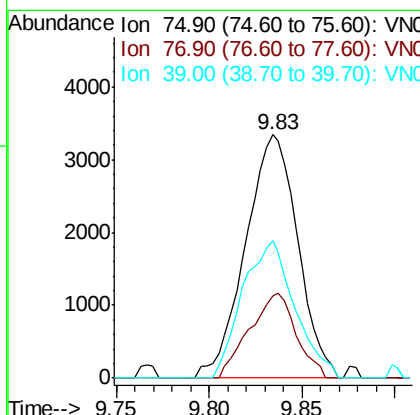
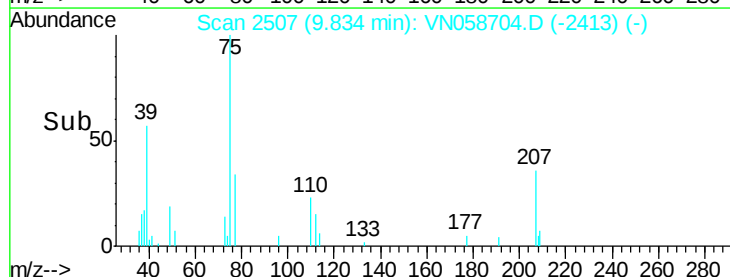
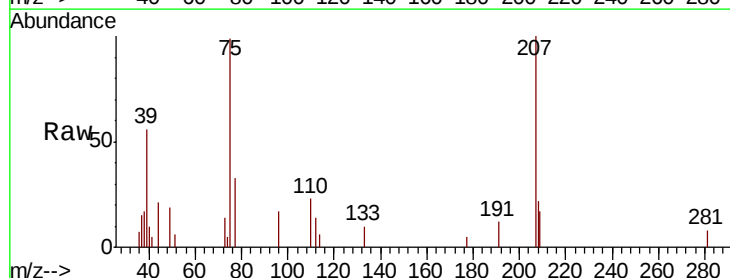
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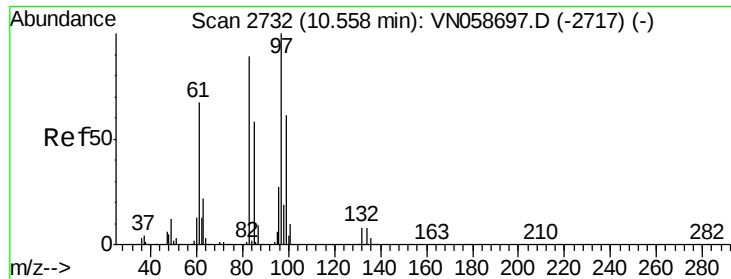
MMDadoda
10/16/2019 12:48:33 AM



#54
cis-1,3-Dichloropropene
Concen: 0.764 ug/l
RT: 9.83 min Scan# 2507
Delta R.T. 0.00 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

Tgt Ion: 75 Resp: 6558
Ion Ratio Lower Upper
75 100
77 33.9 24.4 36.6
39 56.7 43.1 64.7





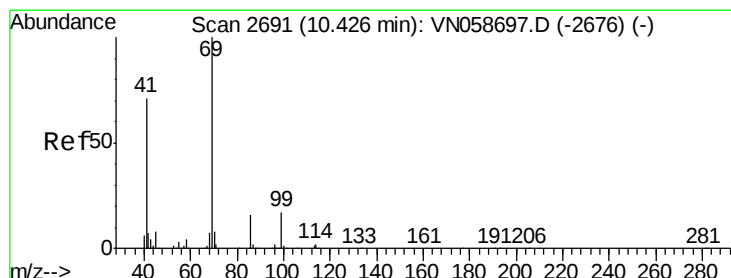
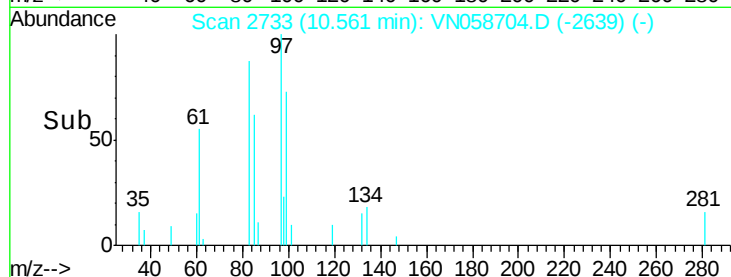
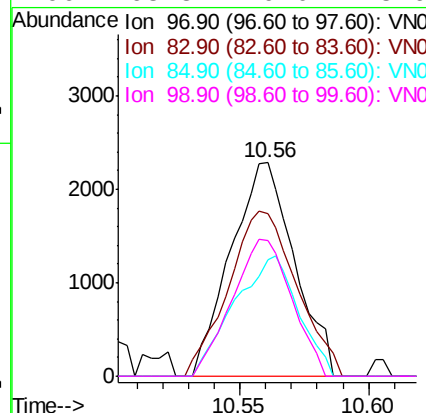
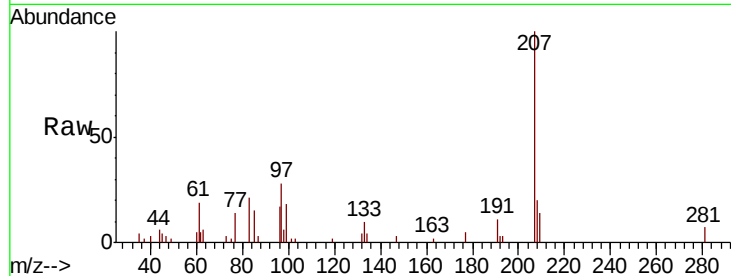
#55
 1,1,2-Trichloroethane
 Concen: 0.769 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN058704.D
 Acq: 11 Oct 2019 15:36

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

Tot Ion:	97	Resp:	3926
Ion	Ratio	Lower	Upper
97	100		
83	76.1	71.2	106.8
85	54.4	46.7	70.1
99	63.8	49.0	73.6

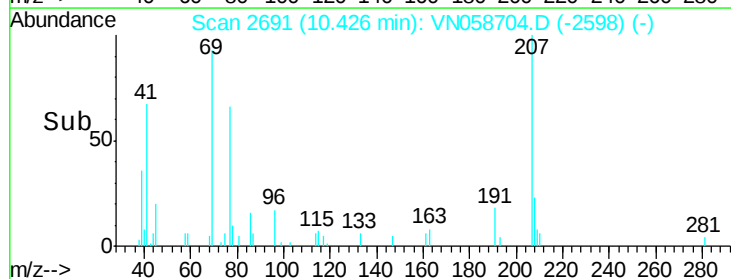
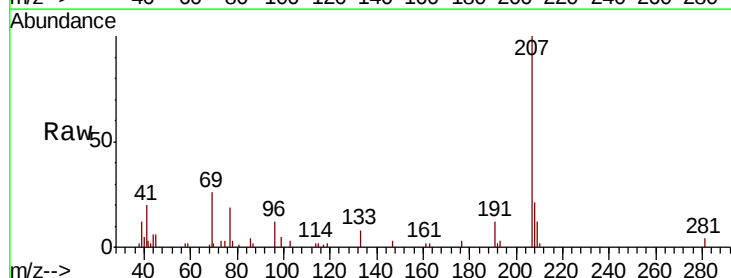
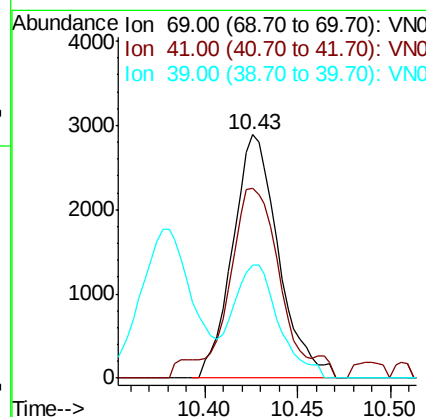
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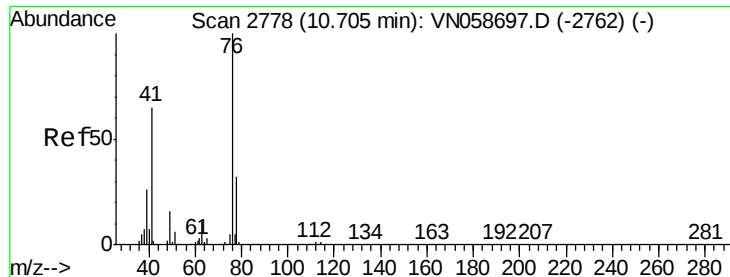
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 10/16/2019 12:48:33 AM



#56
 Ethyl methacrylate
 Concen: 0.668 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. -0.00 min
 Lab File: VN058704.D
 Acq: 11 Oct 2019 15:36

Tgt Ion:	69	Resp:	4981
Ion	Ratio	Lower	Upper
69	100		
41	85.8	56.8	85.2#
39	46.5	32.5	48.7





#57

1,3-Dichloropropane

Concen: 0.802 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. -0.00 min

Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 76 Resp: 6976

Ion Ratio Lower Upper

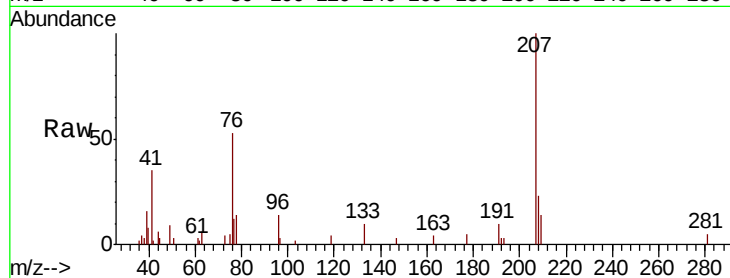
76 100

78 31.7 25.9 38.9

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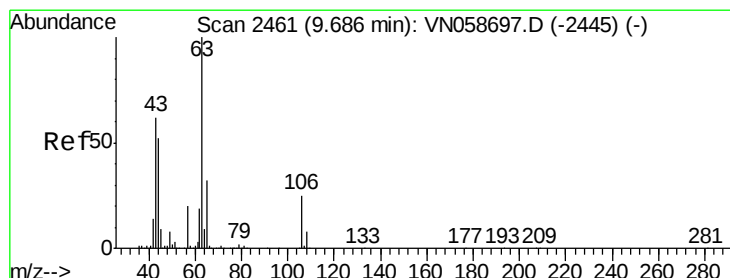
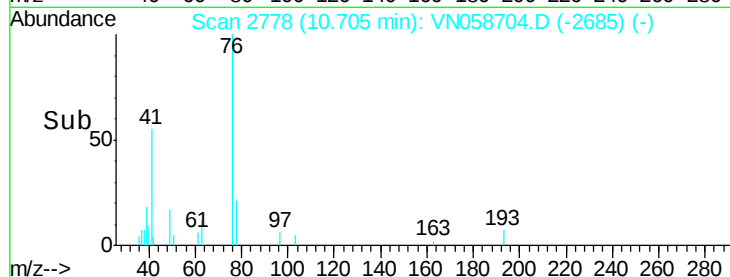
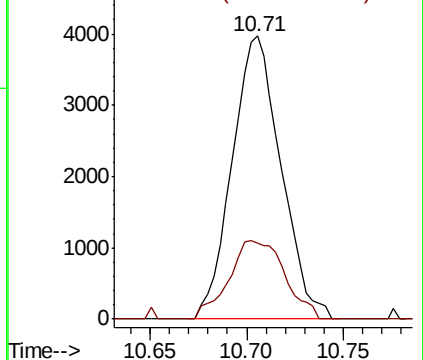
MMDadoda

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 3.234 ug/l

RT: 9.69 min Scan# 2461

Delta R.T. -0.00 min

Lab File: VN058704.D

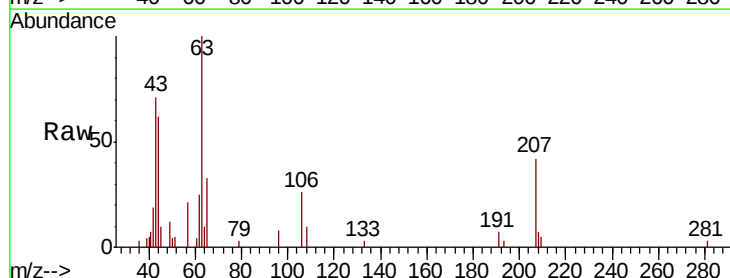
Acq: 11 Oct 2019 15:36

Tgt Ion: 63 Resp: 11629

Ion Ratio Lower Upper

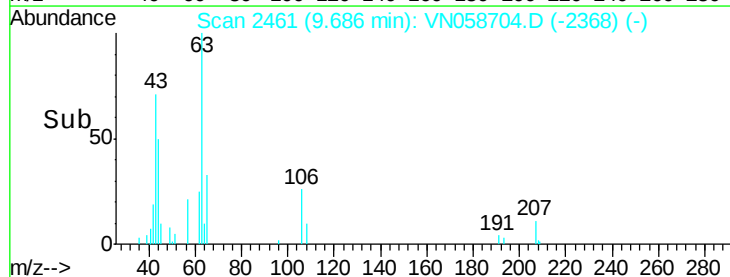
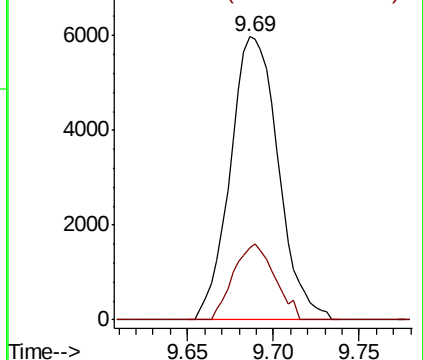
63 100

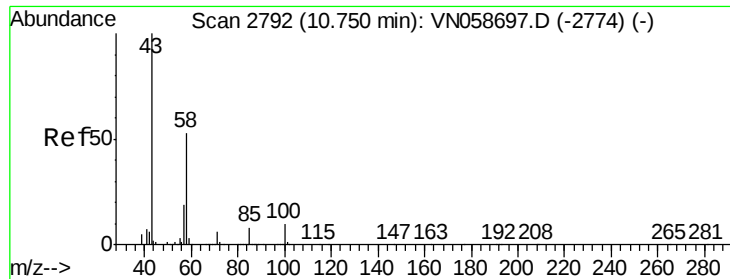
106 23.2 20.0 30.0



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





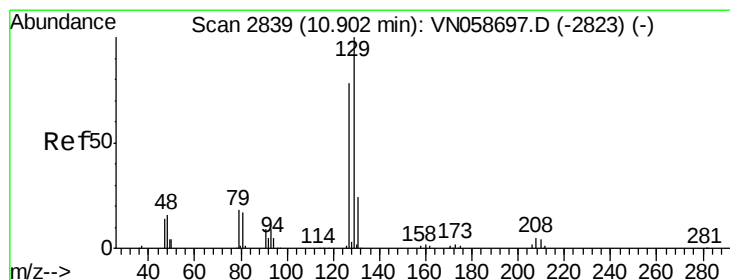
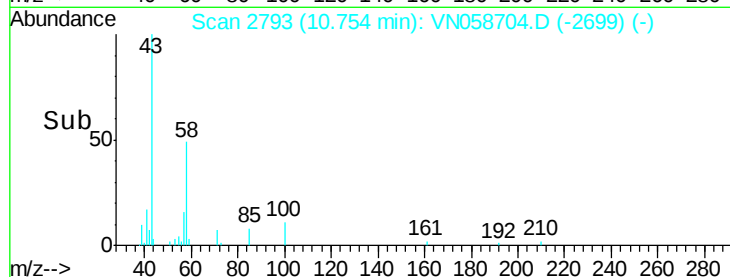
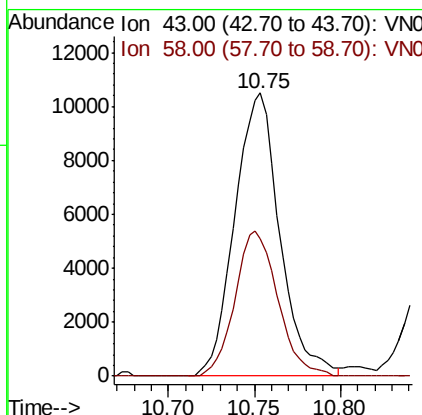
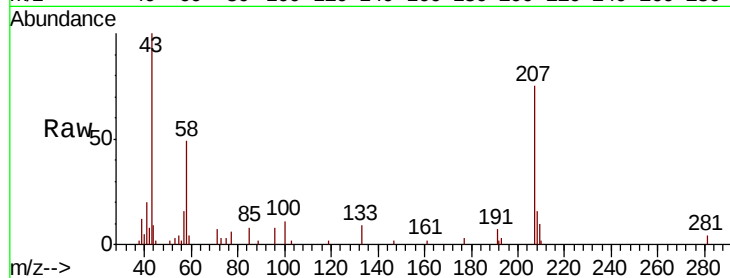
#59
2-Hexanone
Concen: 3.597 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

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

Tot Ion: 43 Resp: 19104
Ion Ratio Lower Upper
43 100
58 48.6 26.1 78.3

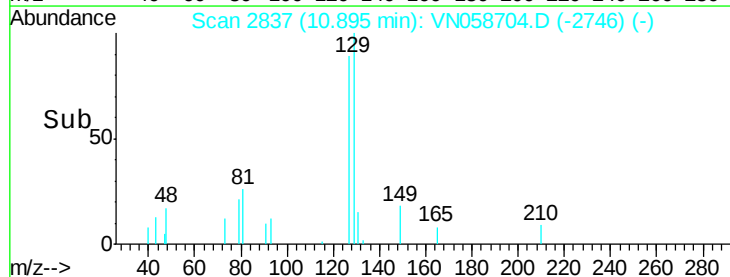
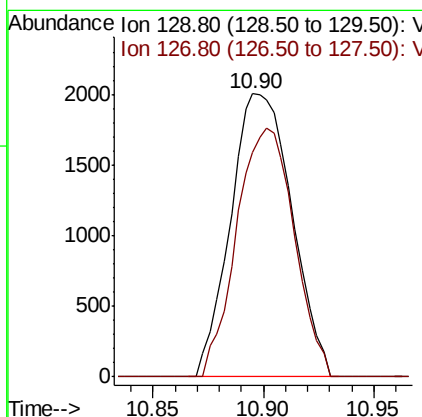
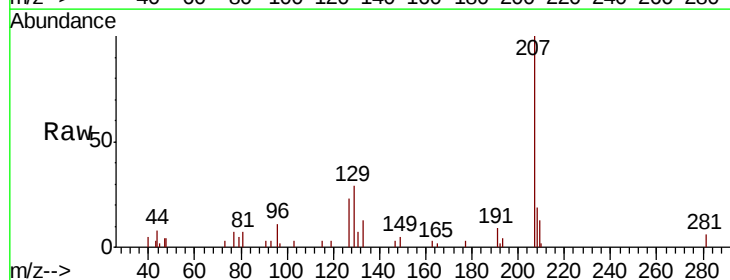
Manual Integrations
APPROVED

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10/16/2019 12:48:33 AM



#60
Dibromochloromethane
Concen: 0.734 ug/l
RT: 10.90 min Scan# 2837
Delta R.T. -0.01 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

Tgt Ion: 129 Resp: 3867
Ion Ratio Lower Upper
129 100
127 82.4 38.5 115.3





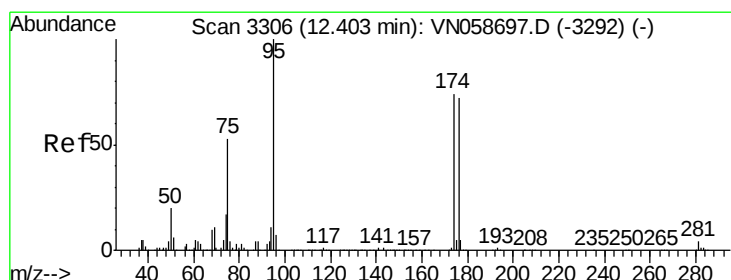
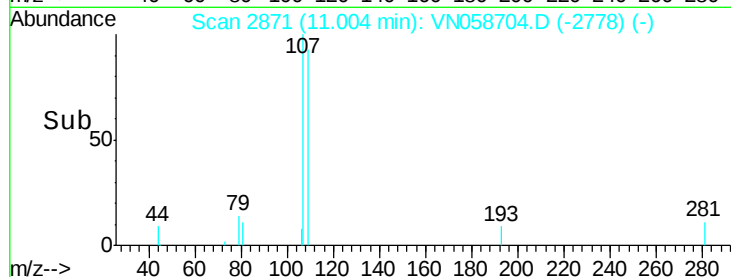
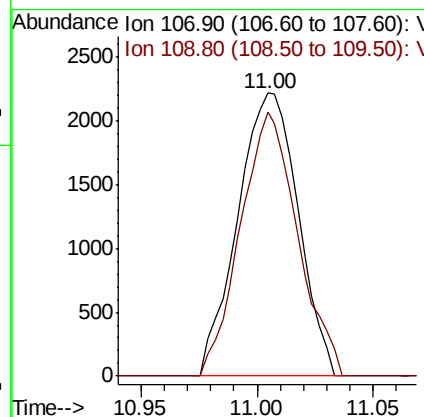
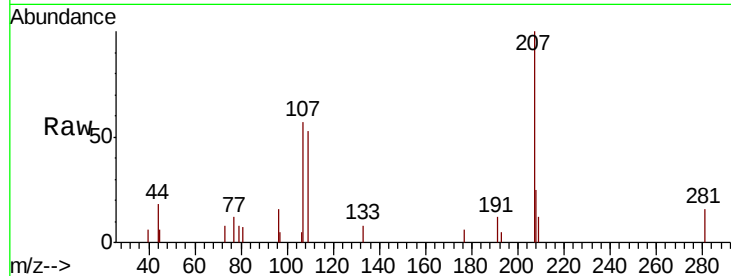
#61
 1,2-Dibromoethane
 Concen: 0.784 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN058704.D
 Acq: 11 Oct 2019 15:36

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

Tot Ion	Ion	Ratio	Resp	Lower	Upper
4011	107	100			
	109	88.0	75.4	113.0	

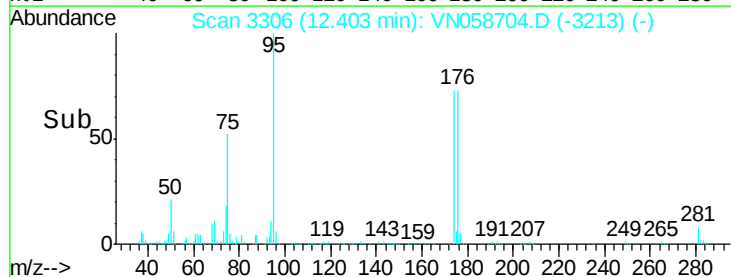
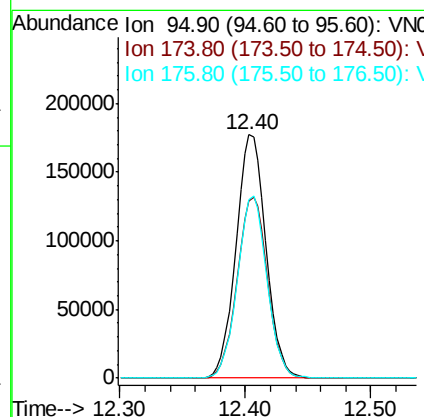
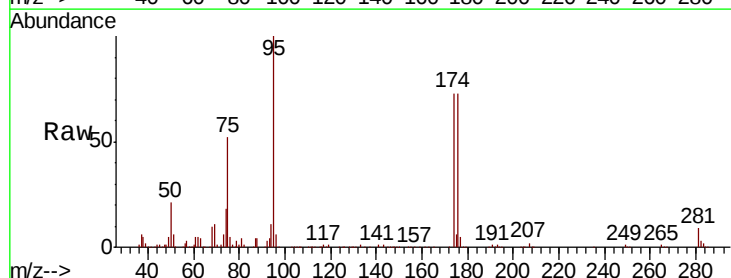
Manual Integrations
 APPROVED

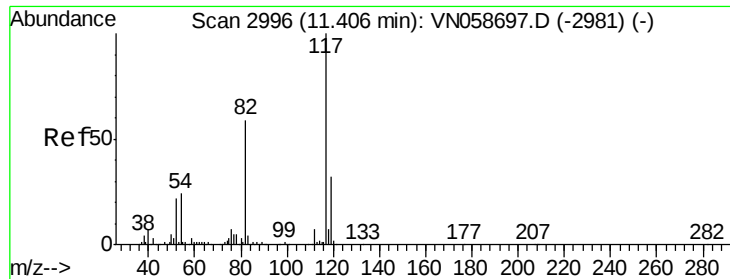
MMDadoda
 10/16/2019 12:48:33 AM



#62
 4-Bromofluorobenzene
 Concen: 44.653 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.00 min
 Lab File: VN058704.D
 Acq: 11 Oct 2019 15:36

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
293308	95	100			
	174	75.4	0.0	150.4	
	176	74.2	0.0	146.8	





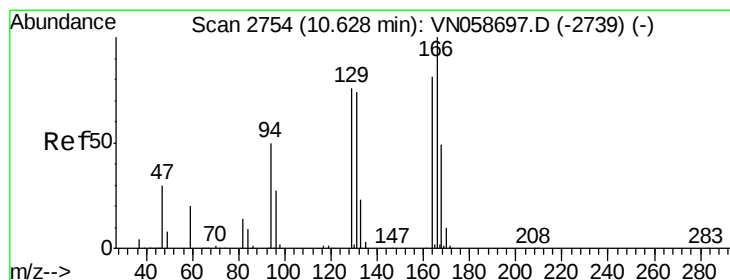
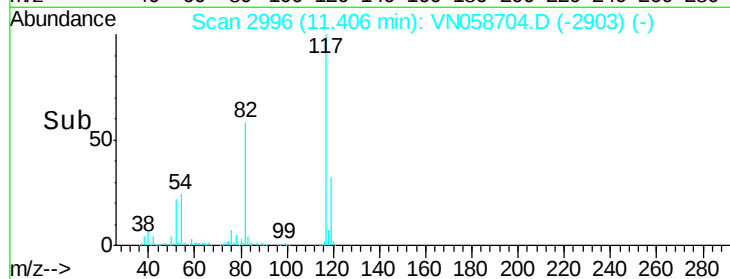
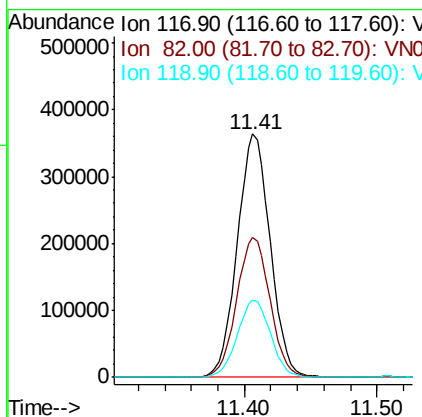
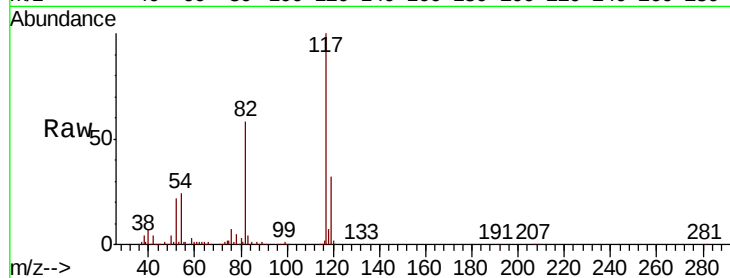
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

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

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.5	47.0	70.4
119	31.8	25.4	38.2

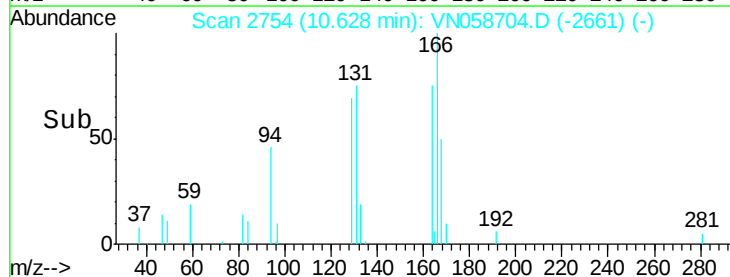
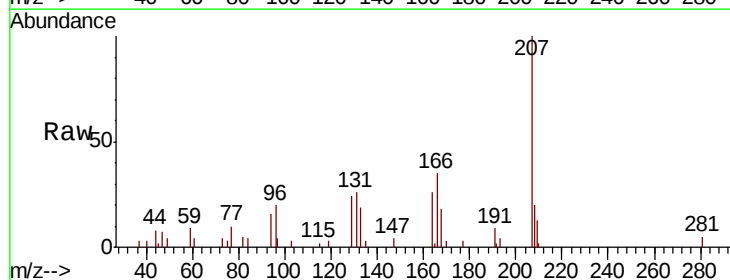
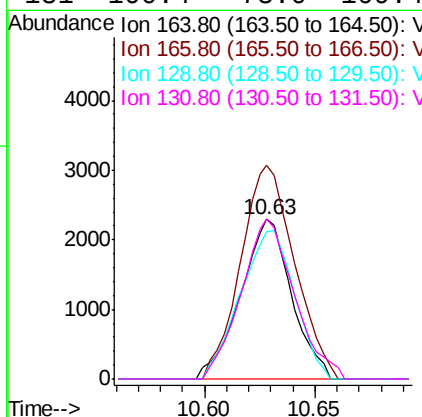
Manual Integrations
APPROVED

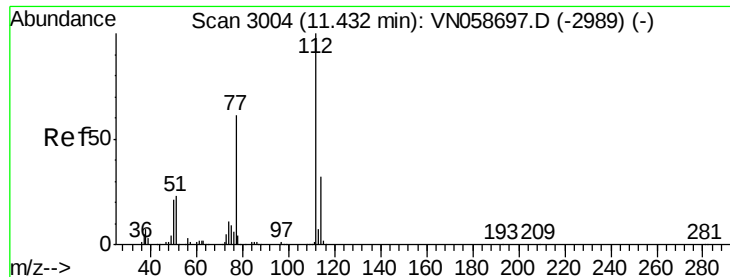
MMDadoda
10/16/2019 12:48:33 AM



#64
Tetrachloroethene
Concen: 0.840 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

Tgt Ion	Ratio	Lower	Upper
164	100		
166	134.0	99.3	148.9
129	92.5	75.2	112.8
131	100.4	73.0	109.4





#65

Chlorobenzene

Concen: 0.845 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:112 Resp: 10757

Ion Ratio Lower Upper

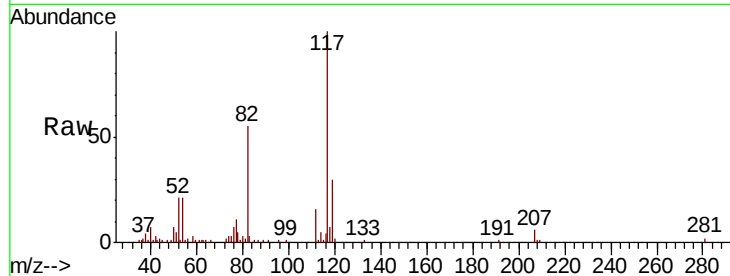
112 100

114 27.9 25.2 37.8

Manual Integrations
APPROVED

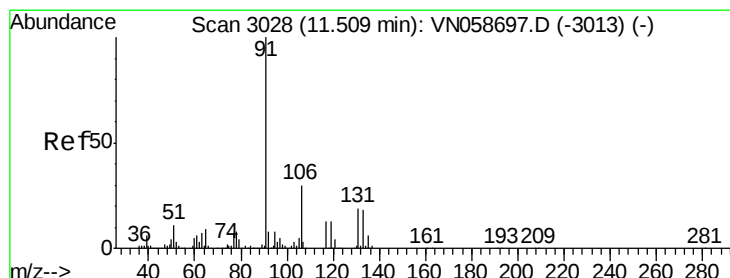
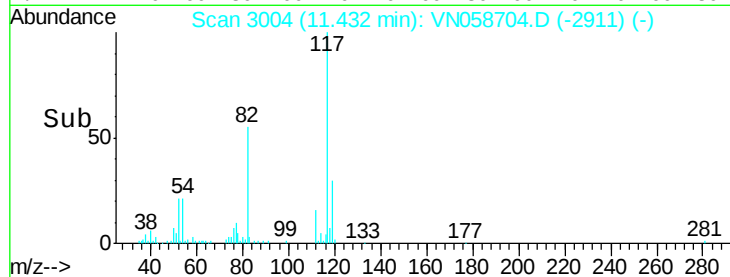
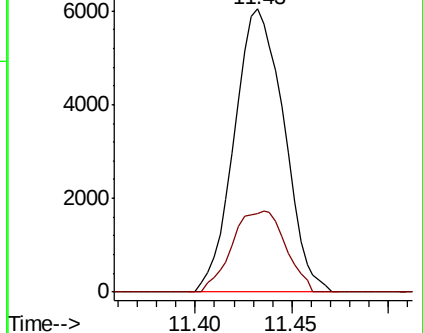
MMDadoda

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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 0.741 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

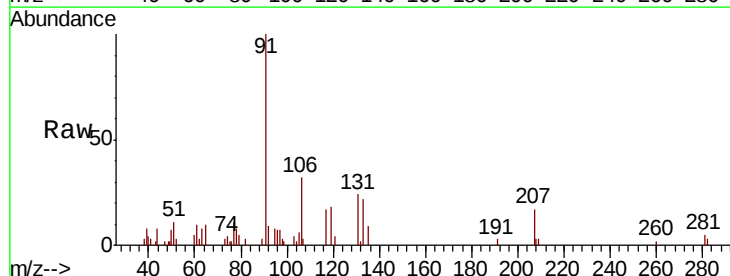
Tgt Ion:131 Resp: 3491

Ion Ratio Lower Upper

131 100

133 103.9 47.6 142.9

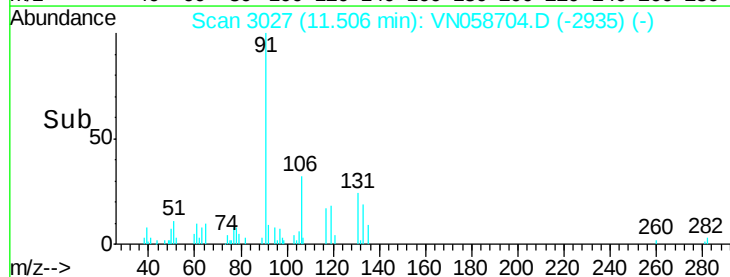
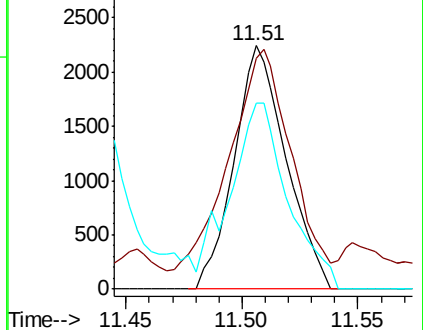
119 0.0 33.0 98.9#



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 0.796 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. -0.00 min

Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 91 Resp: 18071

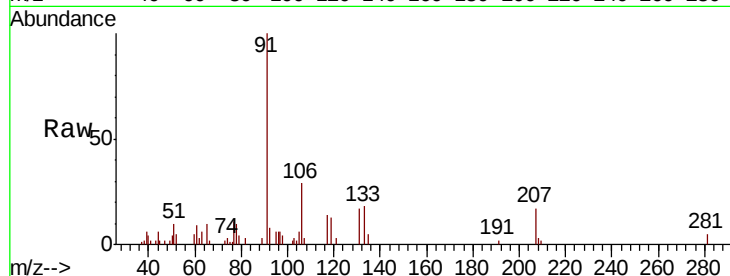
Ion Ratio Lower Upper

91 100

106 28.7 24.1 36.1

Manual Integrations
APPROVED

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10/16/2019 12:48:33 AM



Abundance Ion 91.00 (90.70 to 91.70): VN058697.D (-3013) (-)

Ion 106.00 (105.70 to 106.70): VN058697.D (-3013) (-)

12000

10000

8000

6000

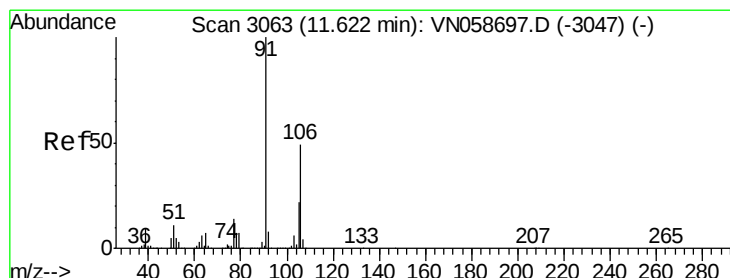
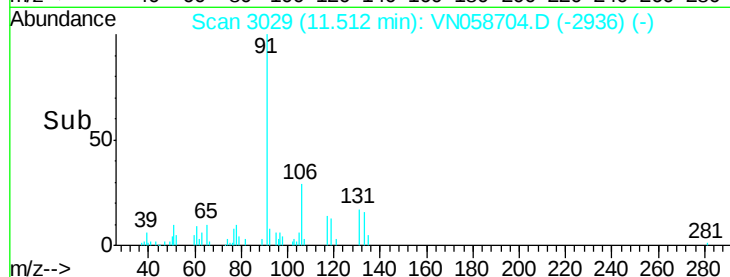
4000

2000

0

11.45 11.50 11.55

Time-->



#68

m/p-Xylenes

Concen: 1.537 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. -0.00 min

Lab File: VN058704.D

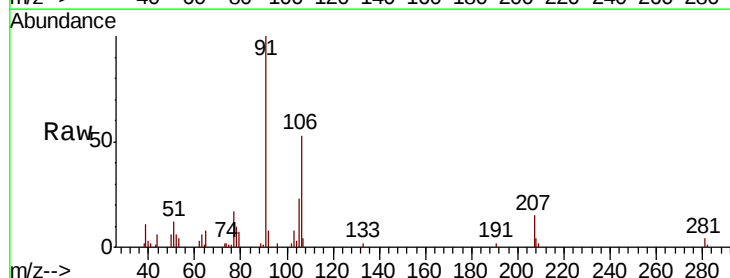
Acq: 11 Oct 2019 15:36

Tgt Ion: 106 Resp: 13091

Ion Ratio Lower Upper

106 100

91 200.4 165.7 248.5



Abundance Ion 106.00 (105.70 to 106.70): VN058697.D (-3047) (-)

Ion 91.00 (90.70 to 91.70): VN058697.D (-3047) (-)

15000

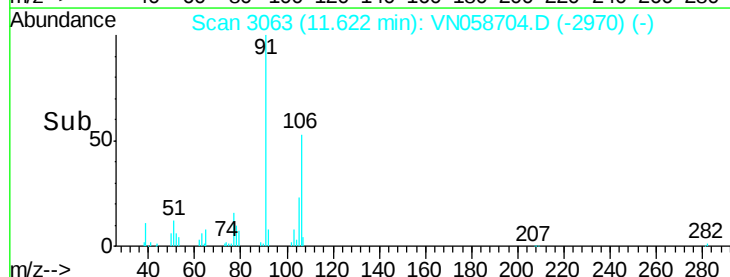
10000

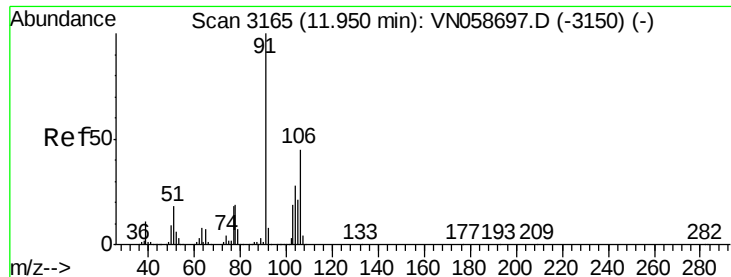
5000

0

11.55 11.60 11.65

Time-->





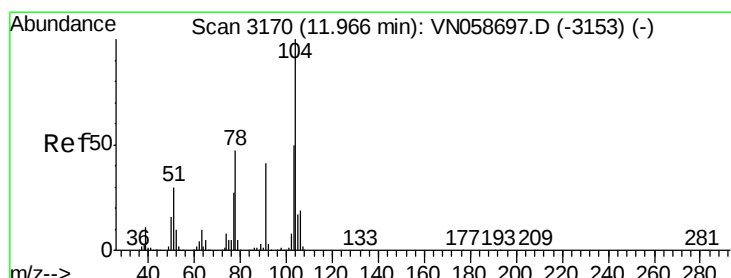
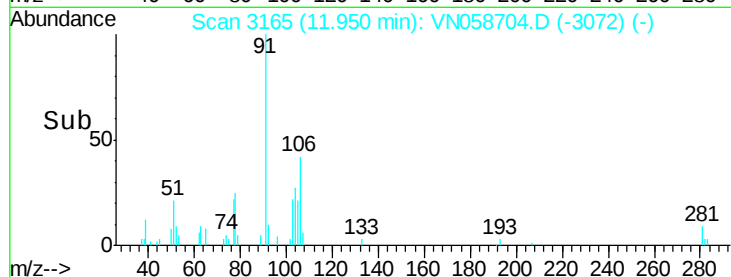
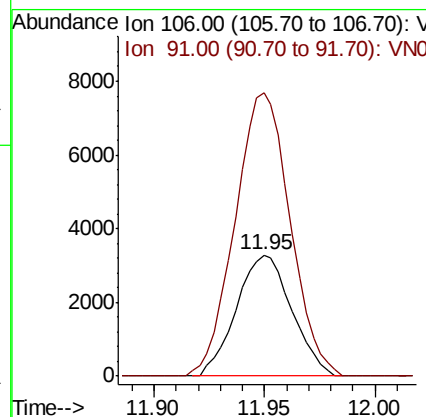
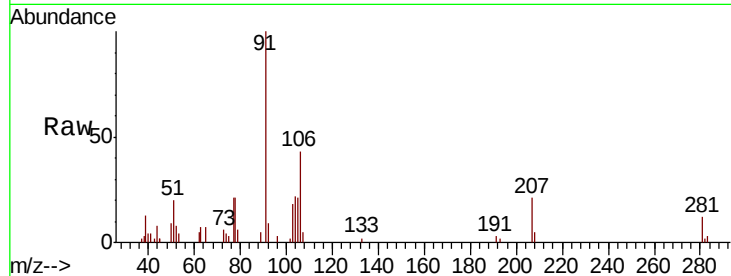
#69
o-Xylene
Concen: 0.693 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. -0.00 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

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

Tot Ion	Ion	Ratio	Lower	Upper
106	106	100		
91	91	232.8	110.9	332.9

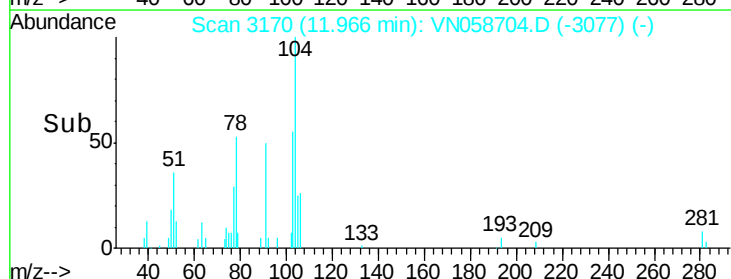
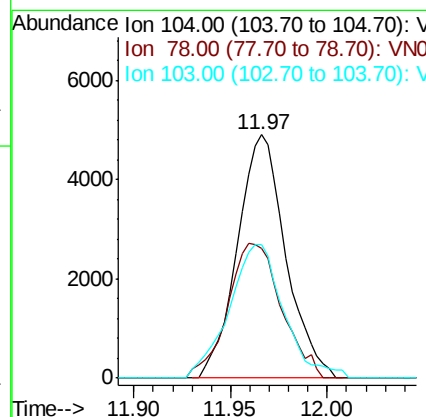
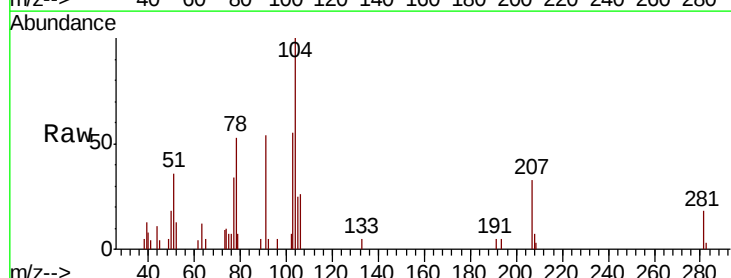
Manual Integrations
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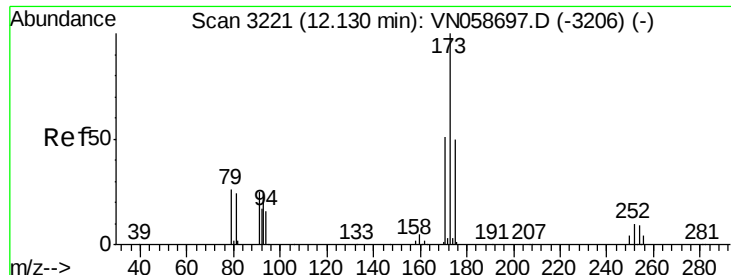
MMDadoda
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#70
Styrene
Concen: 0.630 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. -0.00 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

Tgt Ion	Ion	Ratio	Lower	Upper
104	104	100		
78	78	61.3	42.2	63.2
103	103	62.1	43.7	65.5





#71

Bromoform

Concen: 0.748 ug/l

RT: 12.13 min Scan# 3221

Delta R.T. -0.00 min

Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

Instrument :

MSVOA_N

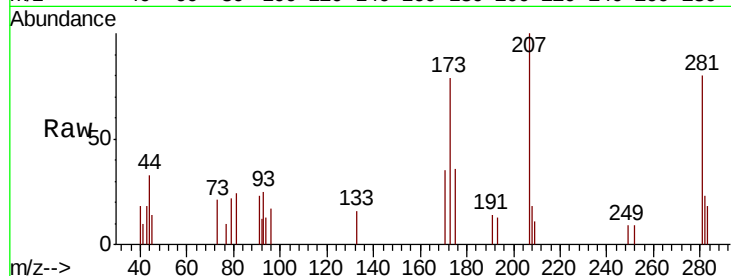
ClientSampleId :

LOQ-WATER-02-QT4-2019

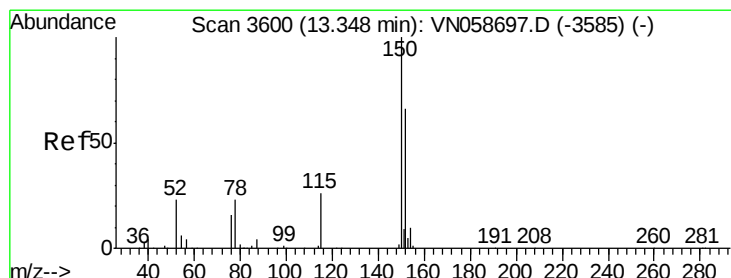
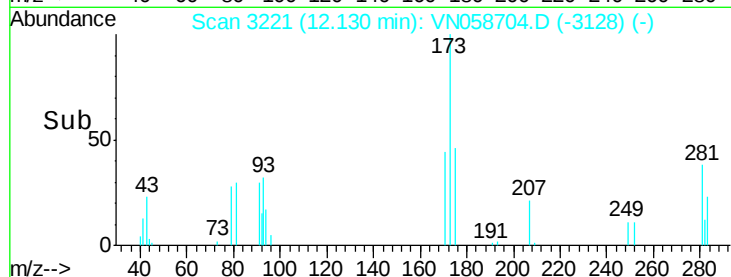
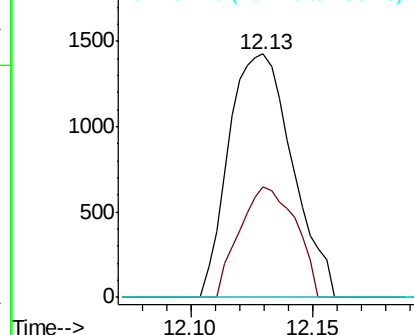
Tot Ion	Ratio	Lower	Upper
173	100		
175	40.1	24.6	73.8
254	0.0	0.1	0.1#

Manual Integrations
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Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

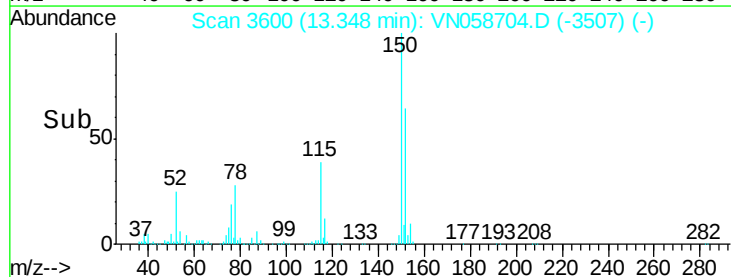
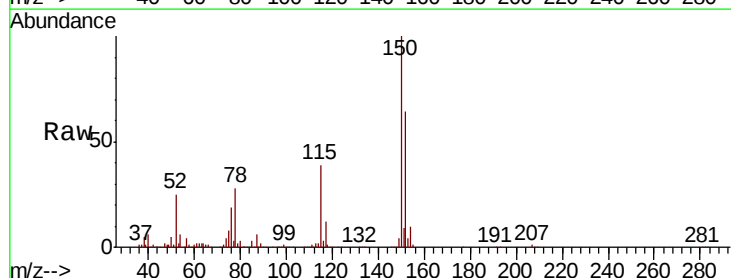
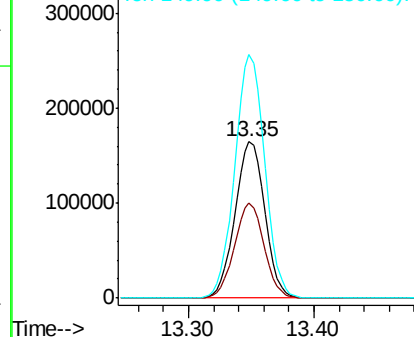
Delta R.T. -0.00 min

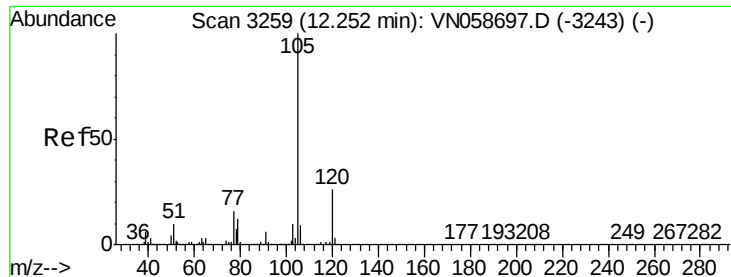
Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.1	30.4	91.2
150	155.9	0.0	345.4

Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





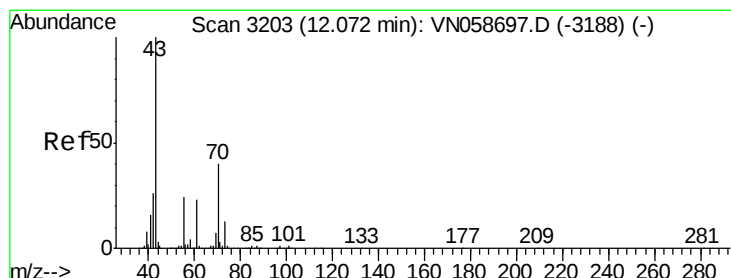
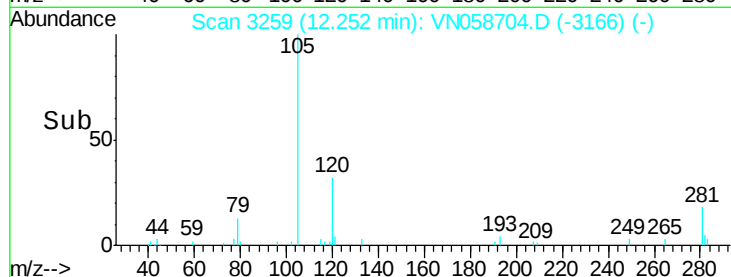
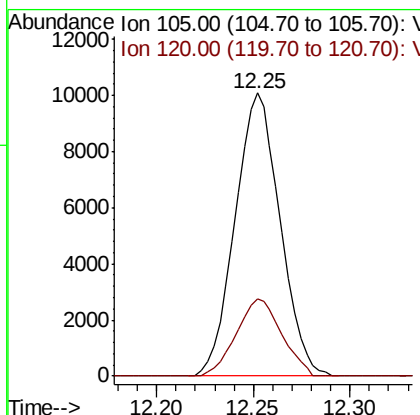
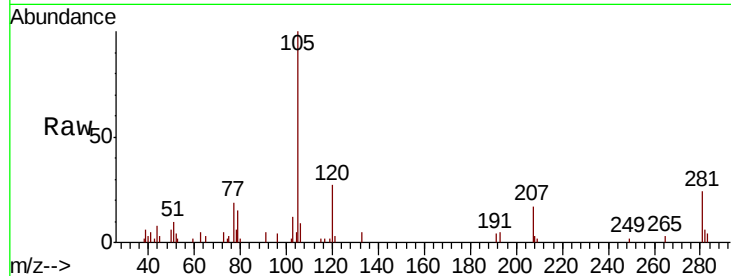
#73
Isopropylbenzene
Concen: 0.827 ug/l
RT: 12.25 min Scan# 3259
Delta R.T. -0.00 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

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

Tot Ion	Ratio	Lower	Upper
105	100		
120	27.5	13.1	39.1

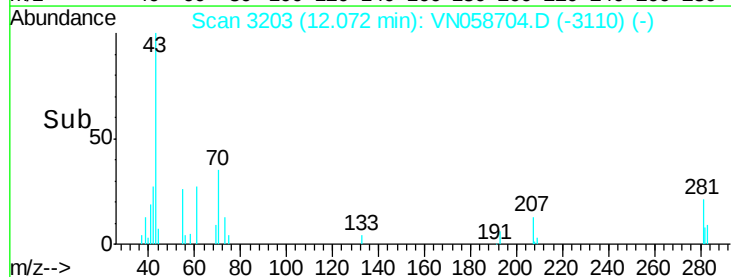
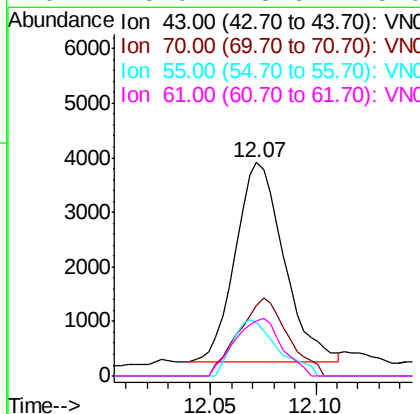
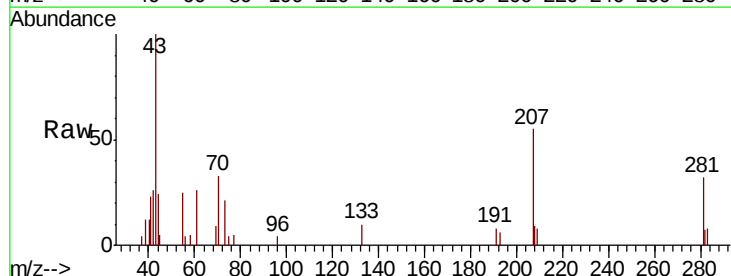
Manual Integrations
APPROVED

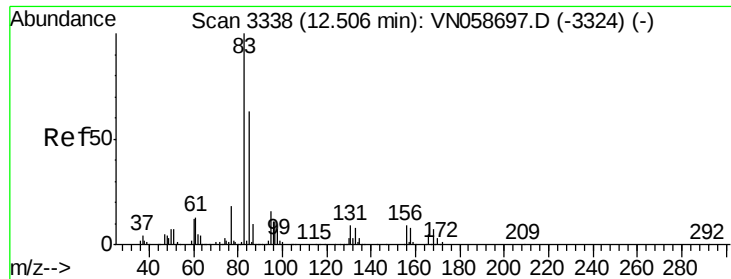
MMDadoda
10/16/2019 12:48:33 AM



#74
N-ethyl acetate
Concen: 0.660 ug/l
RT: 12.07 min Scan# 3203
Delta R.T. -0.00 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

Tgt Ion	Ratio	Lower	Upper
43	100		
70	39.4	32.2	48.4
55	26.3	19.6	29.4
61	28.0	18.6	28.0#





#75

1,1,2,2-Tetrachloroethane

Concen: 0.940 ug/l

RT: 12.51 min Scan# 3339

Delta R.T. 0.00 min

Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

Instrument :

MSVOA_N

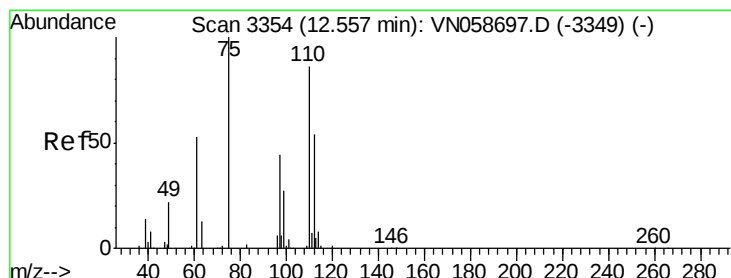
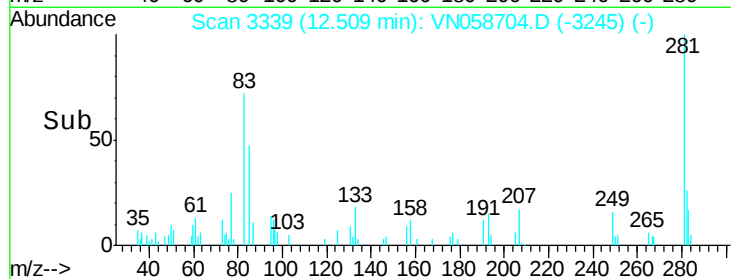
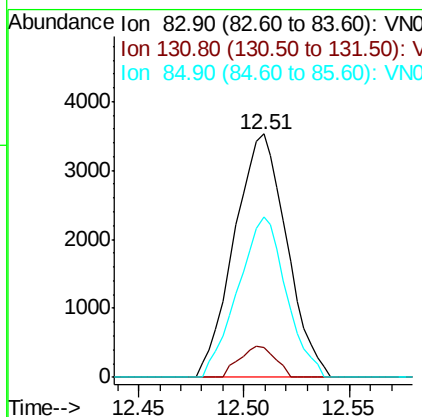
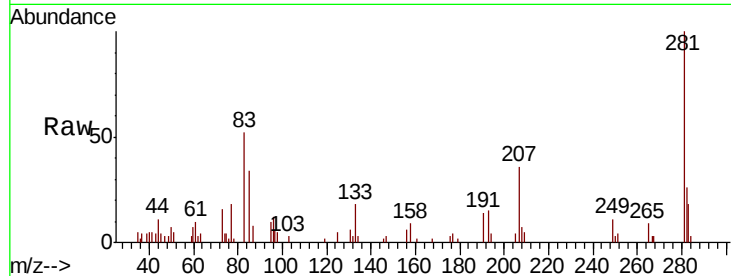
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	83	Resp:	6089
Ion Ratio	Lower	Upper	
83	100		
131	8.6	4.8	14.4
85	60.7	31.9	95.5

Manual Integrations
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MMDadoda
10/16/2019 12:48:33 AM



#76

1,2,3-Trichloropropane

Concen: 1.105 ug/l m

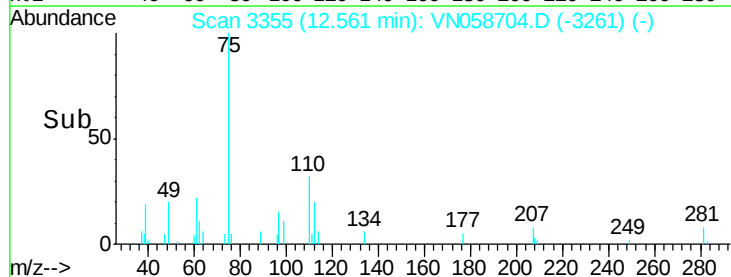
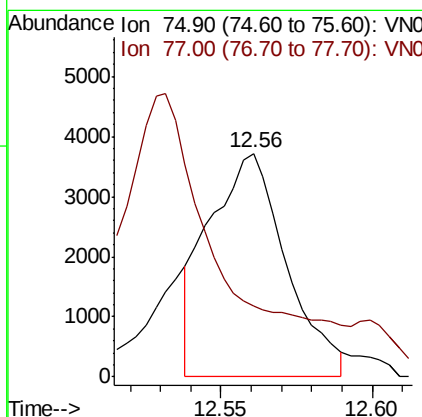
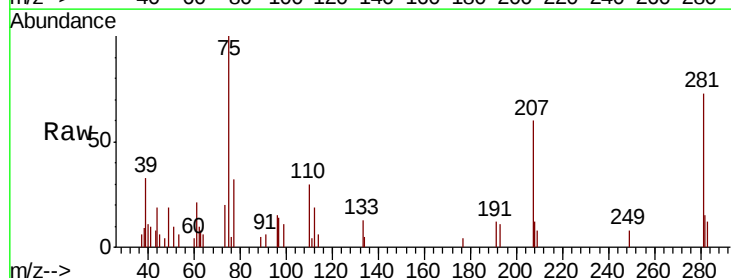
RT: 12.56 min Scan# 3355

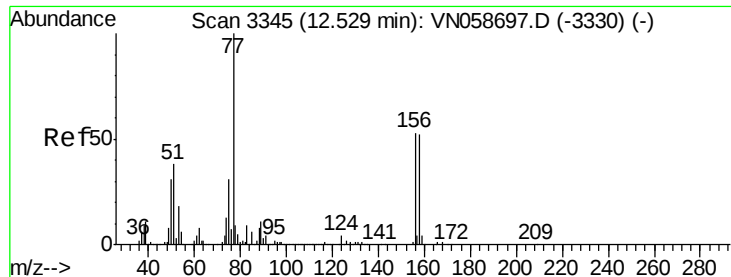
Delta R.T. 0.00 min

Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

Tgt Ion:	75	Resp:	6583
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 0.809 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

Instrument :

MSVOA_N

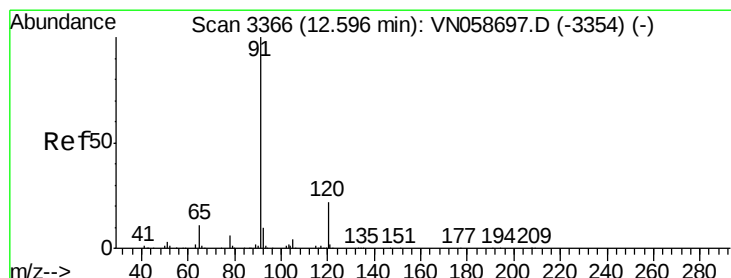
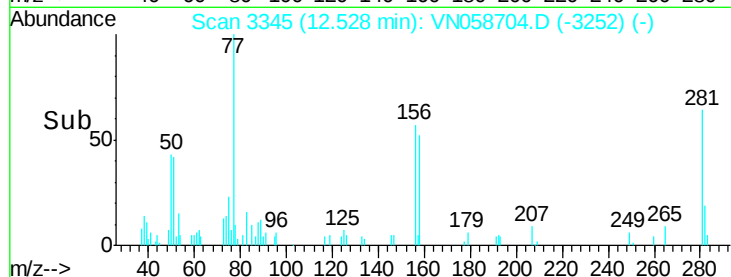
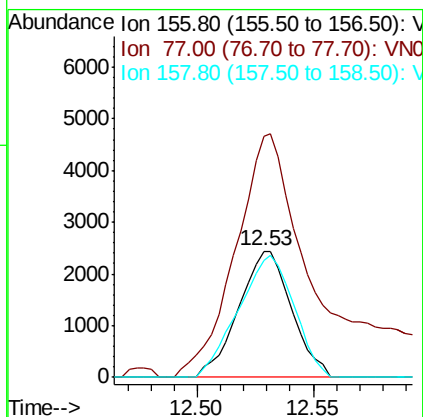
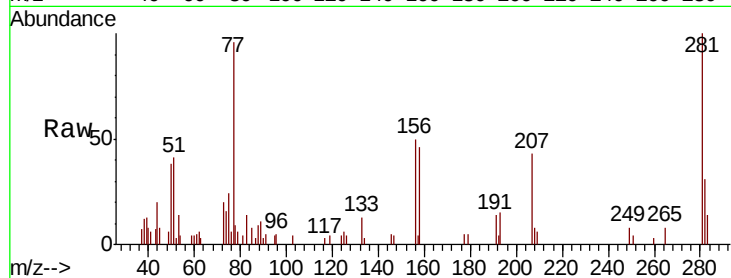
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	156	Resp:	3868
Ion Ratio	Lower	Upper	
156	100		
77	288.8	115.8	347.3
158	101.7	48.9	146.6

Manual Integrations
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10/16/2019 12:48:33 AM



#78

n-propylbenzene

Concen: 0.821 ug/l

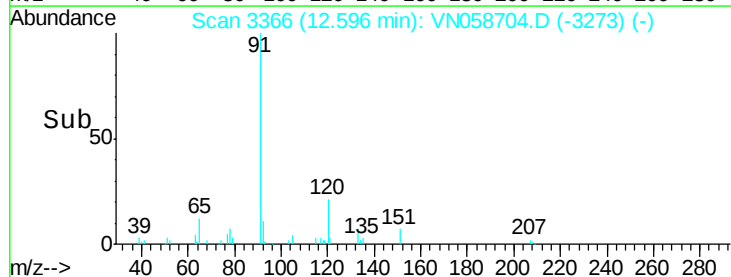
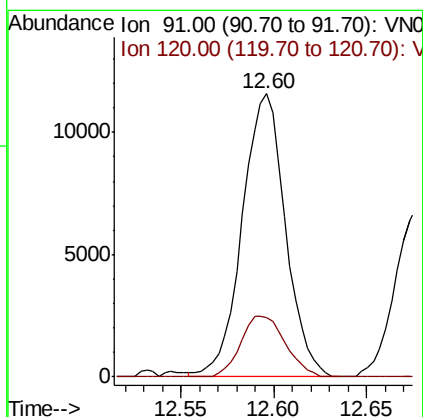
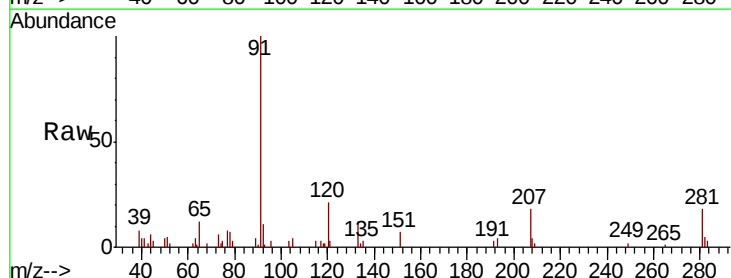
RT: 12.60 min Scan# 3366

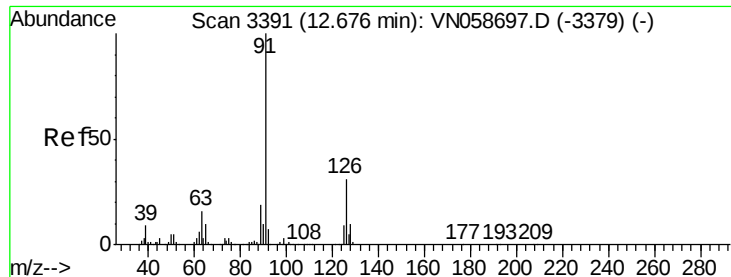
Delta R.T. -0.00 min

Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

Tgt Ion:	91	Resp:	18812
Ion Ratio	Lower	Upper	
91	100		
120	22.1	11.1	33.3





#79

2-Chlorotoluene

Concen: 0.870 ug/l

RT: 12.68 min Scan# 3392

Delta R.T. 0.00 min

Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 91 Resp: 12376

Ion Ratio Lower Upper

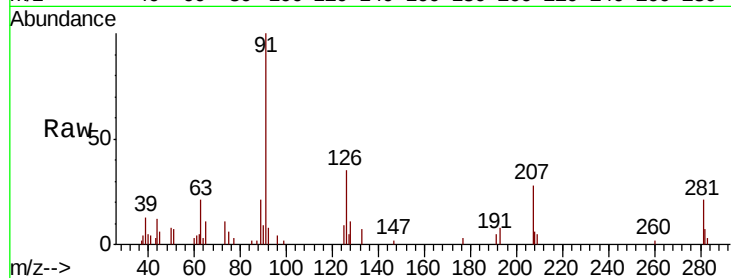
91 100

126 30.9 16.2 48.5

Manual Integrations
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MMDadoda

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Abundance Ion 91.00 (90.70 to 91.70): VN058704.D (-3298) (-)

Ion 125.90 (125.60 to 126.60): VN058704.D (-3298) (-)

10000

8000

6000

4000

2000

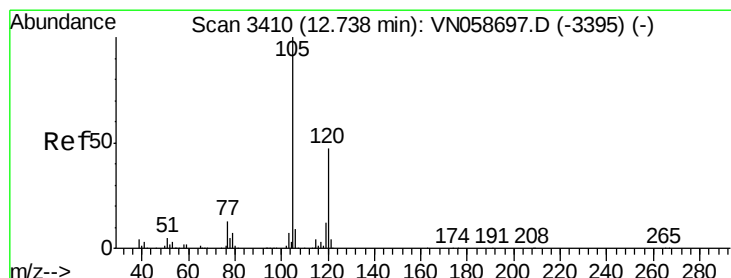
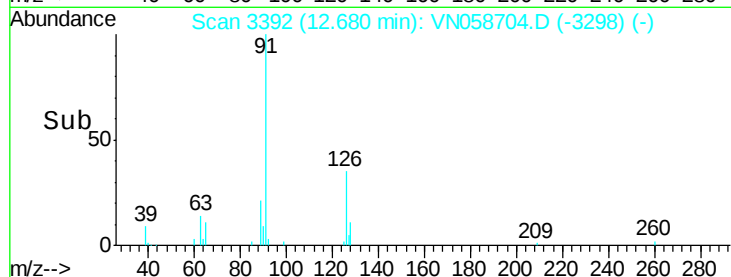
0

12.65

12.68

12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.794 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. -0.00 min

Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

Tgt Ion: 105 Resp: 13336

Ion Ratio Lower Upper

105 100

120 45.8 23.4 70.2

Abundance Ion 105.00 (104.70 to 105.70): VN058704.D (-3317) (-)

Ion 120.00 (119.70 to 120.70): VN058704.D (-3317) (-)

10000

8000

6000

4000

2000

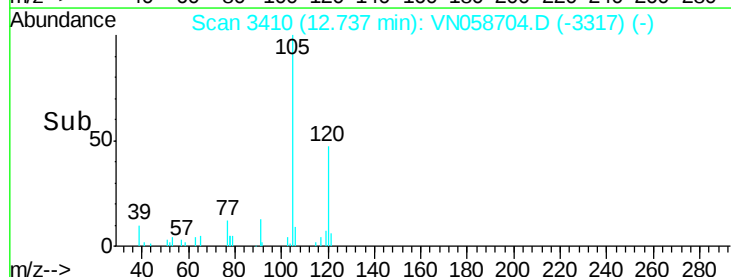
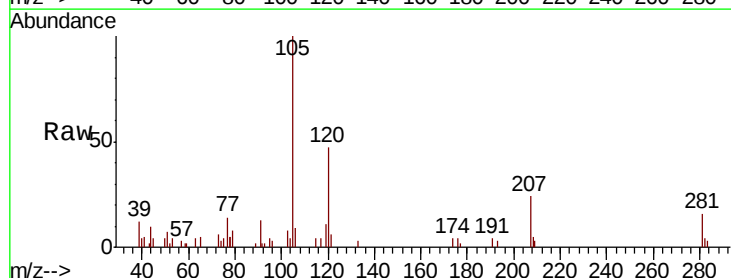
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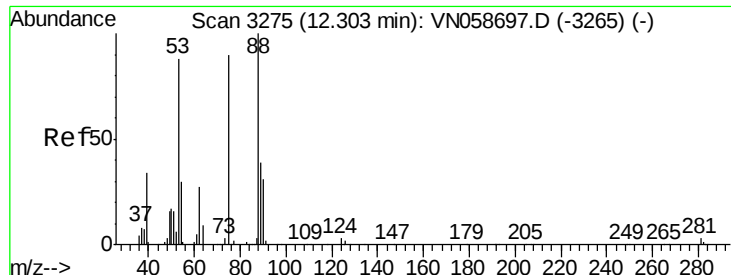
12.70

12.74

12.80

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 0.972 ug/l m

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

Instrument :

MSVOA_N

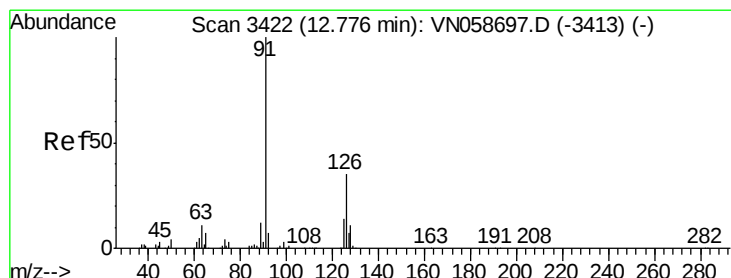
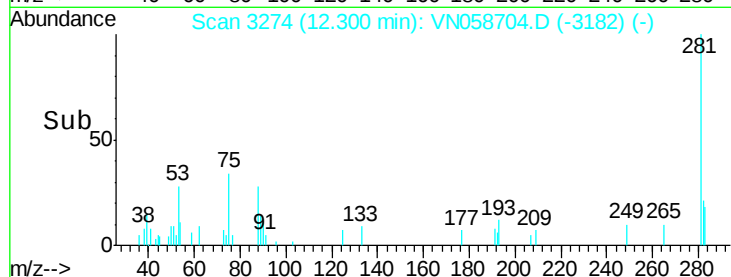
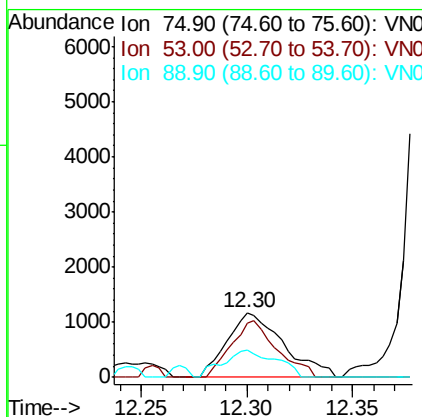
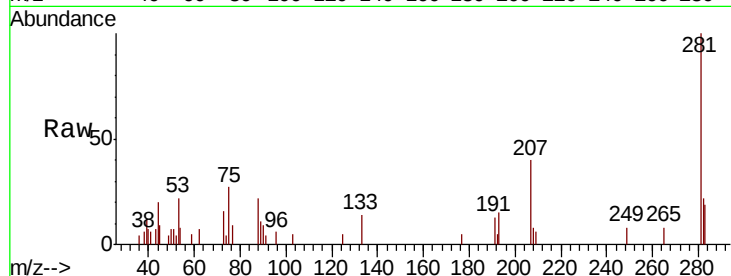
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	75	Resp:	2160
Ion Ratio	Lower	Upper	
75	100		
53	0.0	78.4	117.6#
89	1.5	34.9	52.3#

Manual Integrations
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#82

4-Chlorotoluene

Concen: 0.853 ug/l

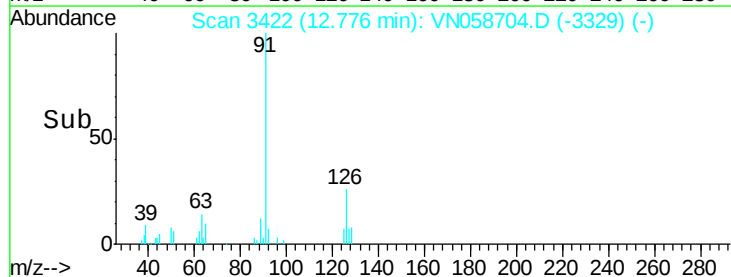
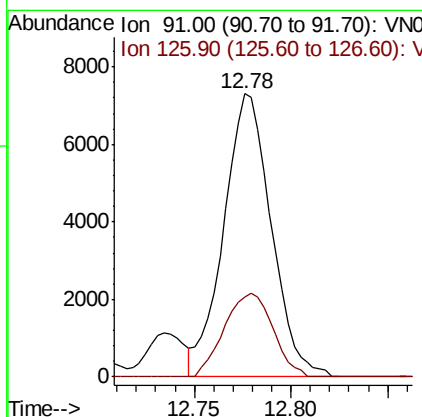
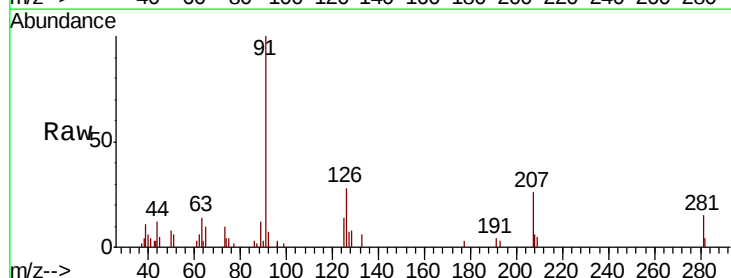
RT: 12.78 min Scan# 3422

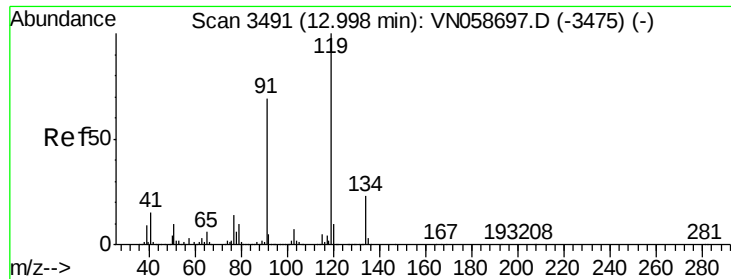
Delta R.T. -0.00 min

Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

Tgt Ion:	91	Resp:	12452
Ion Ratio	Lower	Upper	
91	100		
126	30.3	15.9	47.6





#83

tert-Butylbenzene

Concen: 0.820 ug/l

RT: 13.00 min Scan# 3491

Delta R.T. -0.00 min

Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

Instrument :

MSVOA_N

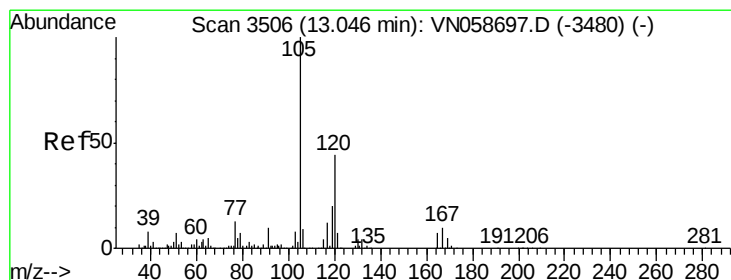
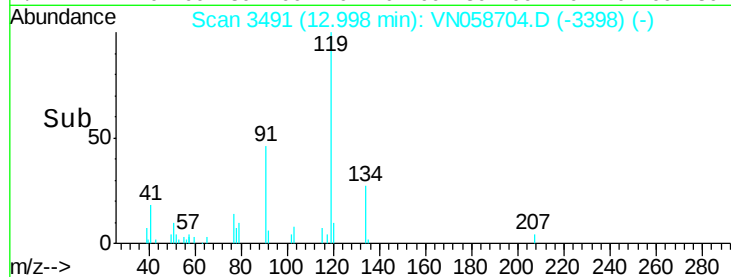
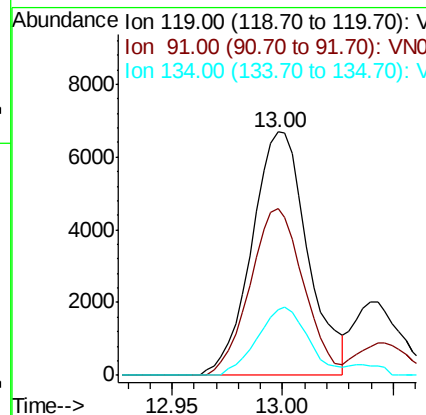
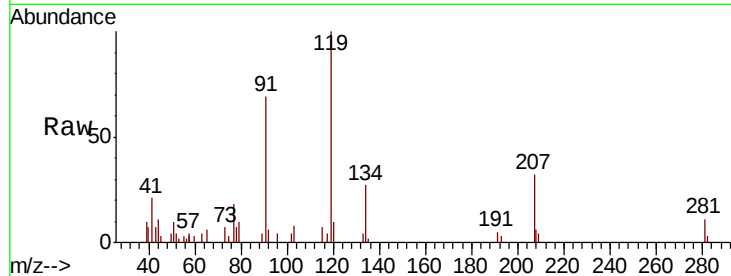
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	119	Resp:	11785
Ion Ratio	Lower	Upper	
119	100		
91	65.5	33.8	101.3
134	25.4	12.6	37.6

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 0.761 ug/l

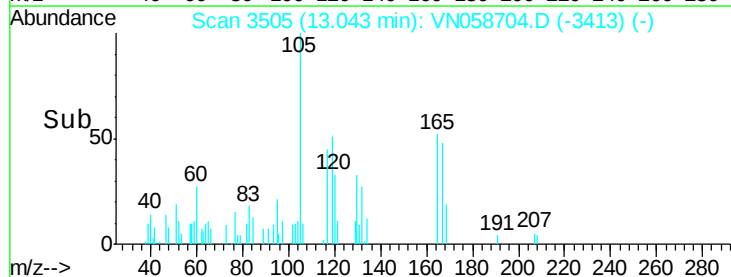
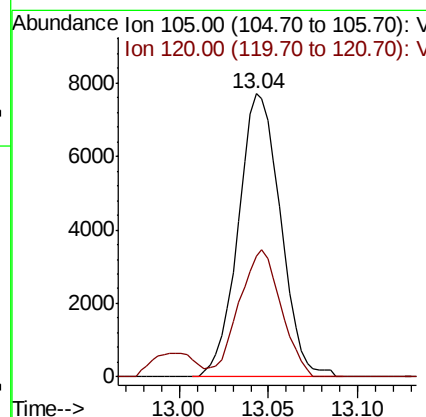
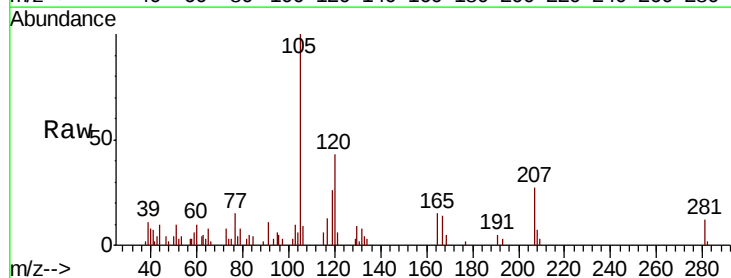
RT: 13.04 min Scan# 3506

Delta R.T. -0.00 min

Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

Tgt Ion:	105	Resp:	12687
Ion Ratio	Lower	Upper	
105	100		
120	44.8	21.9	65.7





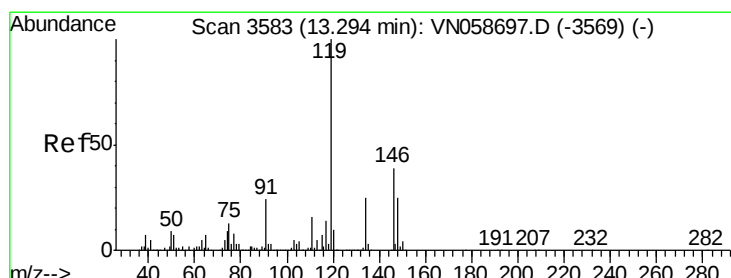
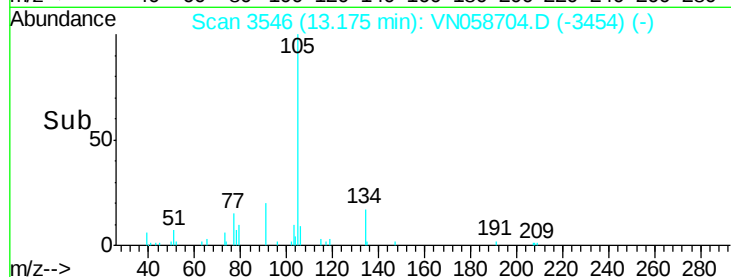
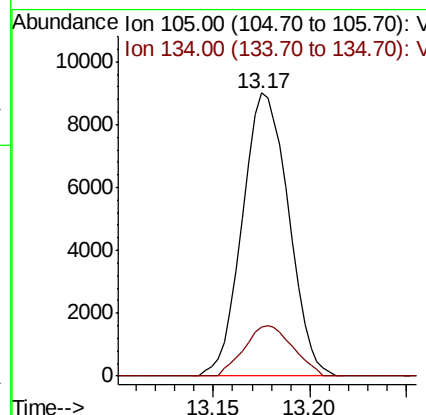
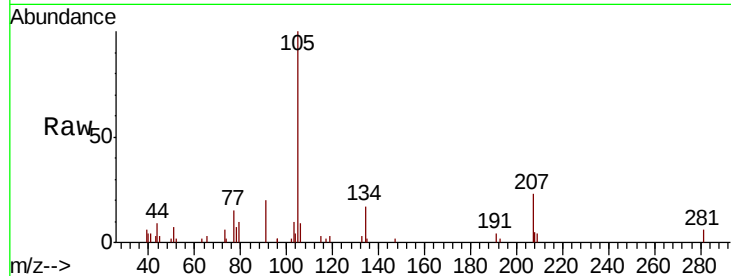
#85
 sec-Butylbenzene
 Concen: 0.790 ug/l
 RT: 13.17 min Scan# 3546
 Delta R.T. -0.00 min
 Lab File: VN058704.D
 Acq: 11 Oct 2019 15:36

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

Tot Ion	Ratio	Lower	Upper
105	100		
134	18.6	9.7	29.1

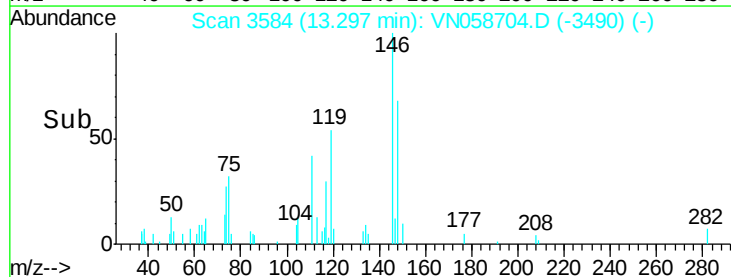
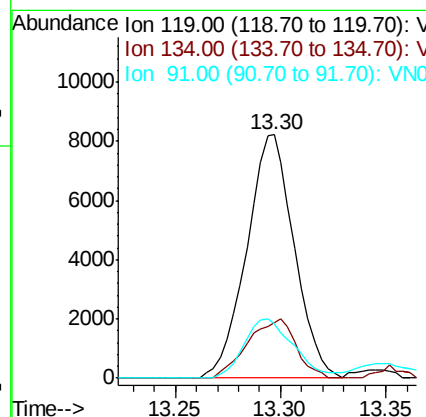
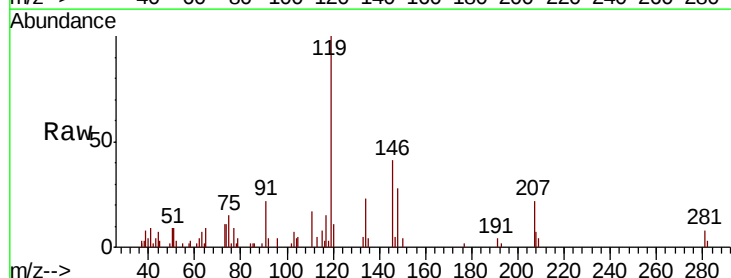
Manual Integrations
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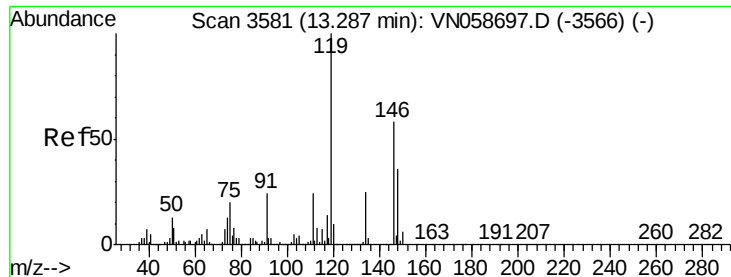
MMDadoda
 10/16/2019 12:48:33 AM



#86
 p-Isopropyltoluene
 Concen: 0.746 ug/l
 RT: 13.30 min Scan# 3584
 Delta R.T. 0.00 min
 Lab File: VN058704.D
 Acq: 11 Oct 2019 15:36

Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.7	12.7	38.1
91	25.4	11.9	35.5





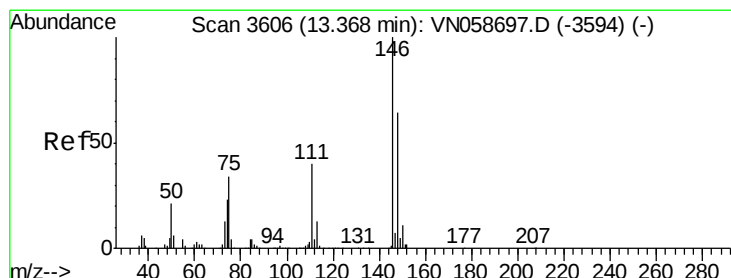
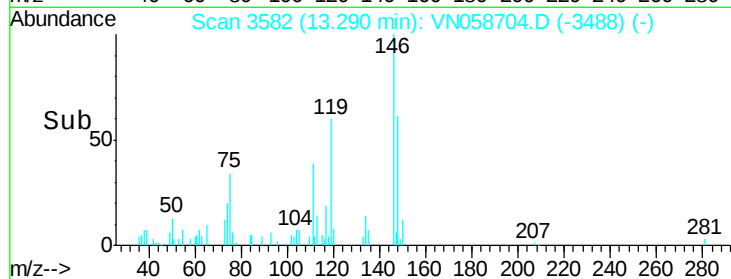
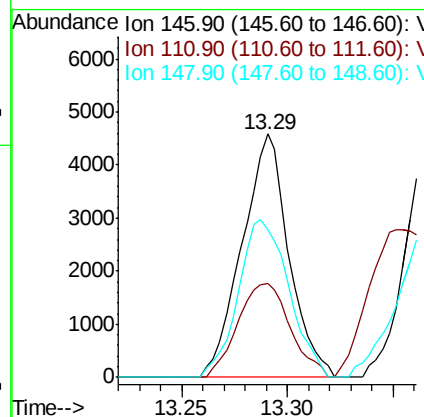
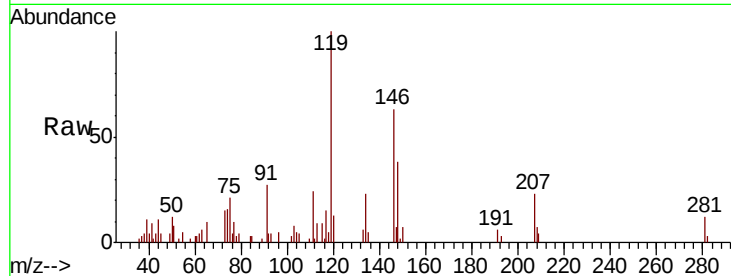
#87
 1,3-Dichlorobenzene
 Concen: 0.800 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN058704.D
 Acq: 11 Oct 2019 15:36

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.2	20.5	61.6
148	70.0	31.3	93.9

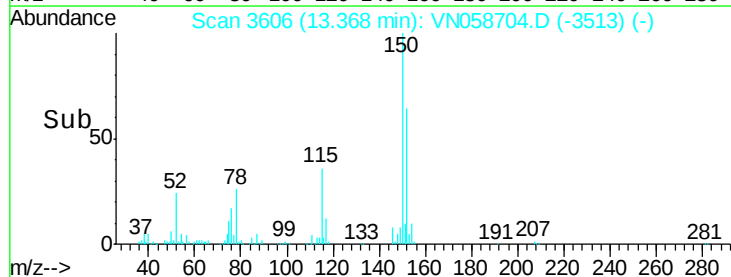
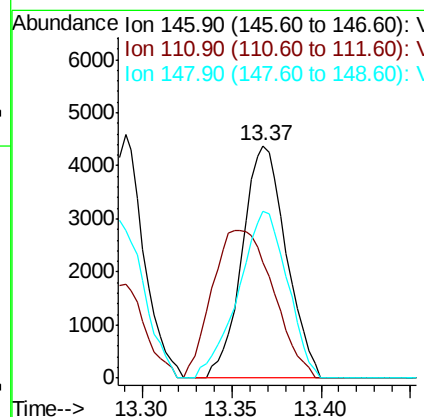
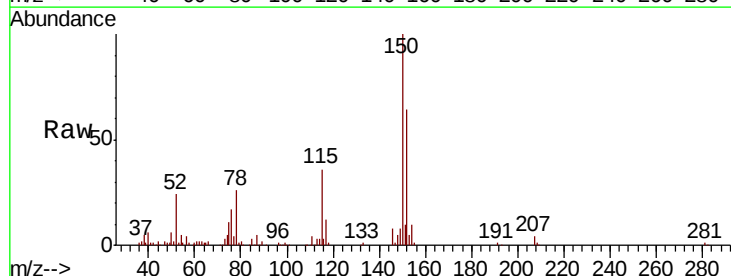
Manual Integrations
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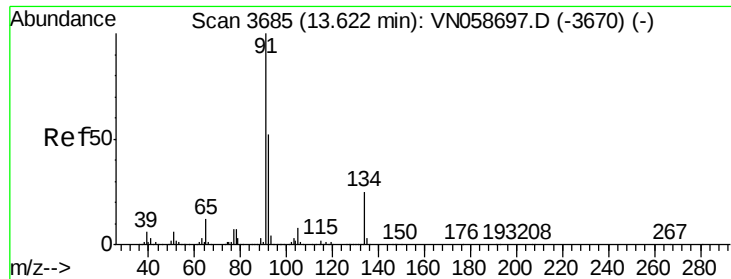
MMDadoda
 10/16/2019 12:48:33 AM



#88
 1,4-Dichlorobenzene
 Concen: 0.832 ug/l m
 RT: 13.37 min Scan# 3606
 Delta R.T. -0.00 min
 Lab File: VN058704.D
 Acq: 11 Oct 2019 15:36

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.8	20.1	60.2
148	66.3	31.9	95.7





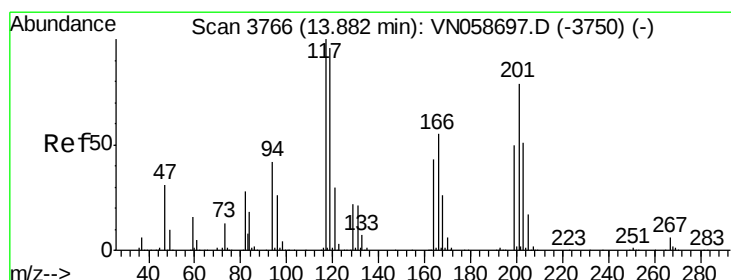
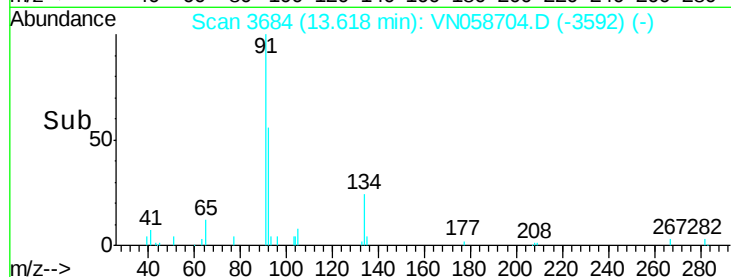
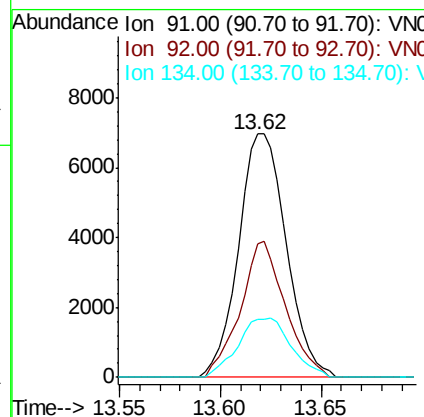
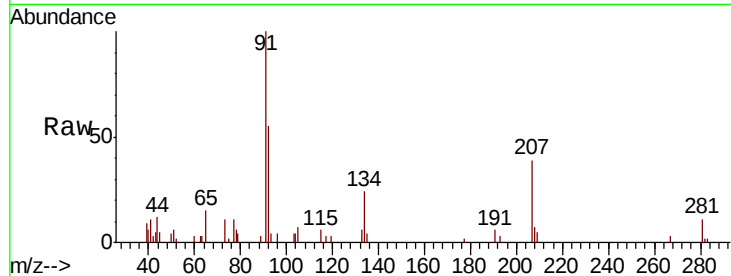
#89
n-Butylbenzene
Concen: 0.724 ug/l
RT: 13.62 min Scan# 3684
Delta R.T. -0.00 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

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

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.5	26.0	78.0
134	27.0	12.2	36.6

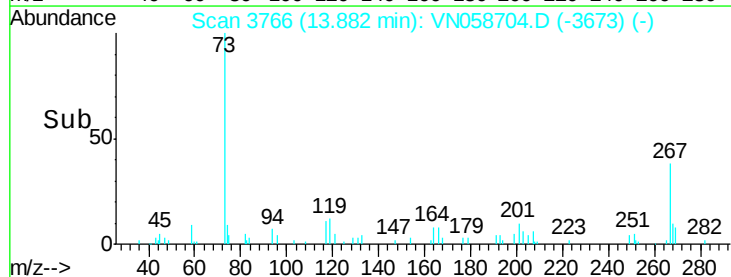
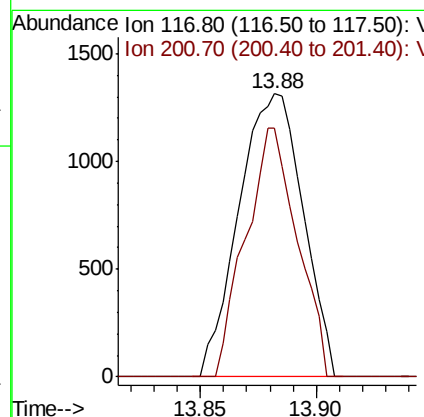
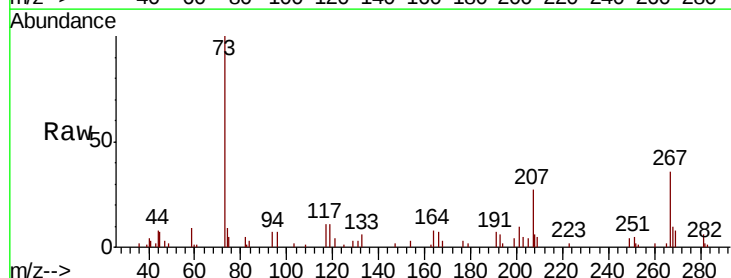
Manual Integrations
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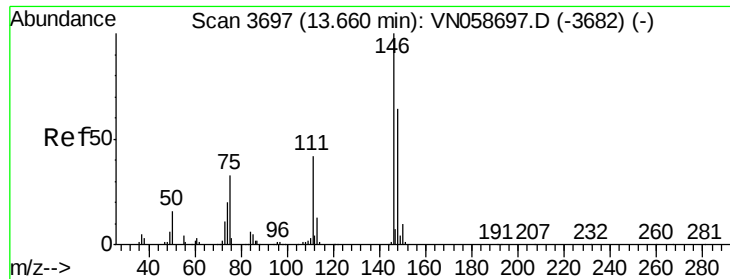
MMDadoda
10/16/2019 12:48:33 AM



#90
Hexachloroethane
Concen: 0.820 ug/l
RT: 13.88 min Scan# 3766
Delta R.T. -0.00 min
Lab File: VN058704.D
Acq: 11 Oct 2019 15:36

Tgt Ion	Ratio	Lower	Upper
117	100		
201	70.8	39.6	118.7





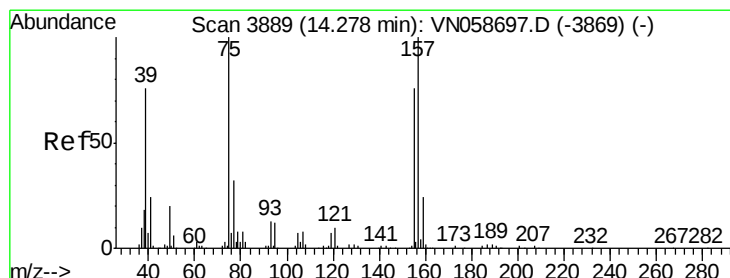
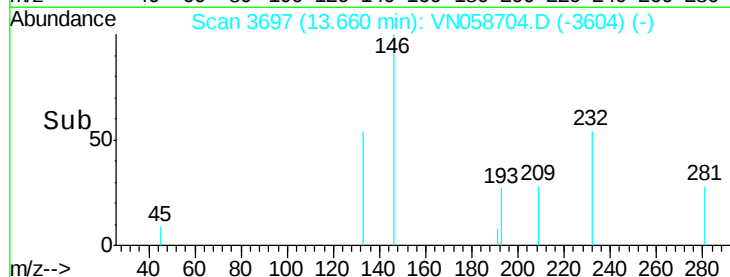
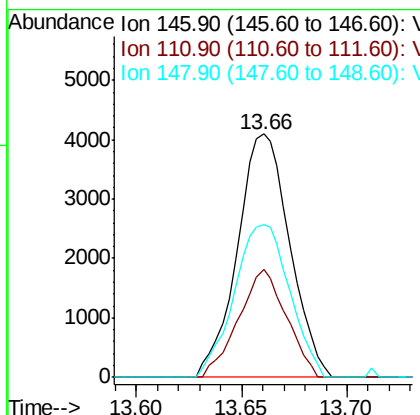
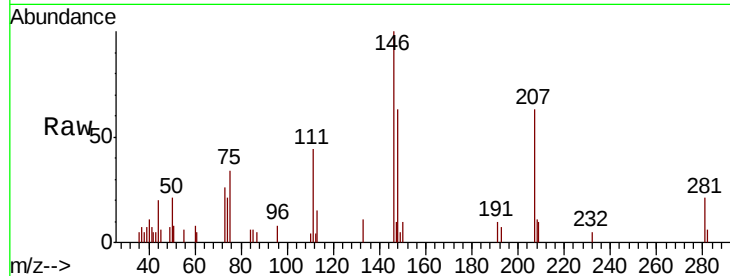
#91
 1,2-Dichlorobenzene
 Concen: 0.820 ug/l
 RT: 13.66 min Scan# 3697
 Delta R.T. -0.00 min
 Lab File: VN058704.D
 Acq: 11 Oct 2019 15:36

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.4	21.1	63.4
148	66.4	31.8	95.3

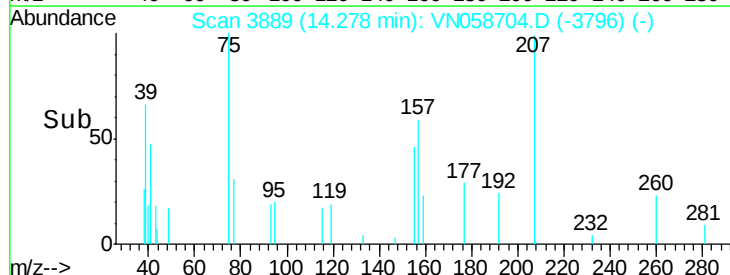
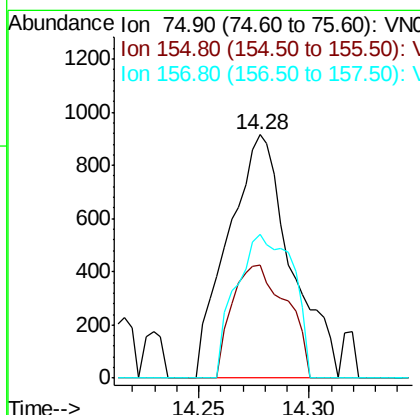
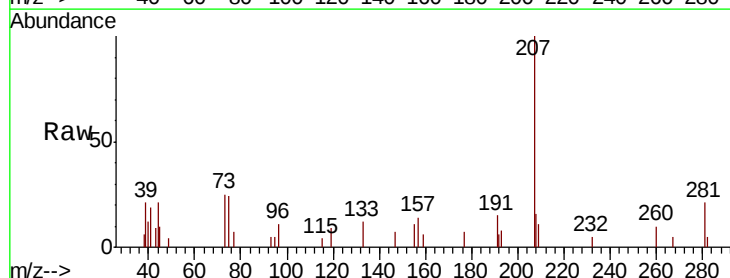
Manual Integrations
 APPROVED

MMDadoda
 10/16/2019 12:48:33 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.194 ug/l
 RT: 14.28 min Scan# 3889
 Delta R.T. -0.00 min
 Lab File: VN058704.D
 Acq: 11 Oct 2019 15:36

Tgt Ion	Ratio	Lower	Upper
75	100		
155	40.2	37.9	113.6
157	53.5	49.4	148.2





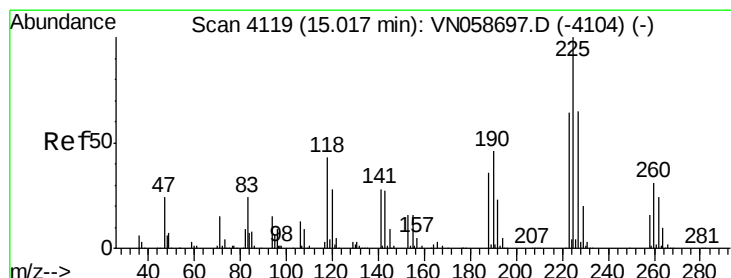
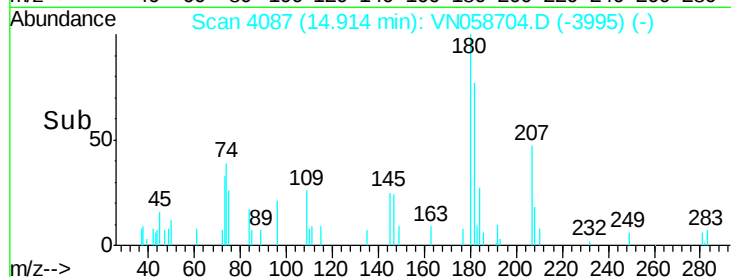
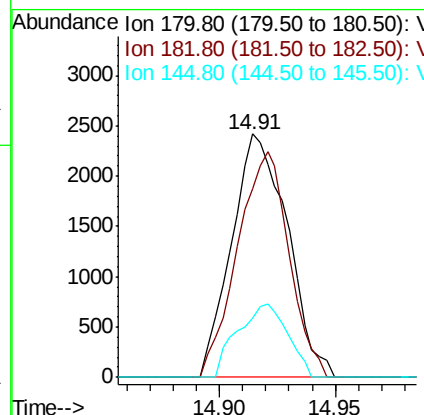
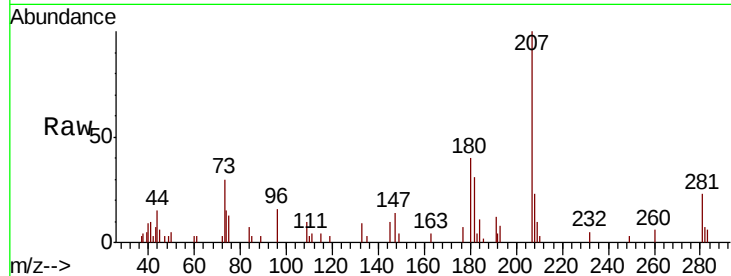
#93
 1,2,4-Trichlorobenzene
 Concen: 0.770 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. -0.00 min
 Lab File: VN058704.D
 Acq: 11 Oct 2019 15:36

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

Tot Ion	Ratio	Lower	Upper
180	100		
182	85.7	47.4	142.2
145	27.2	15.4	46.2

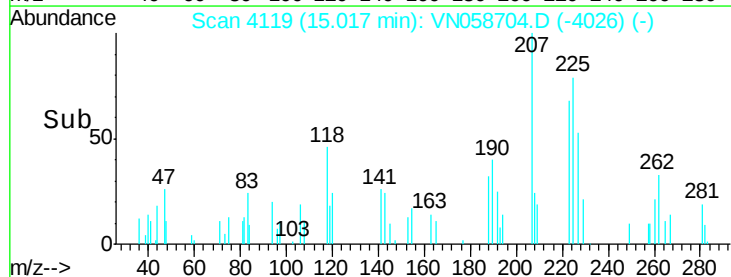
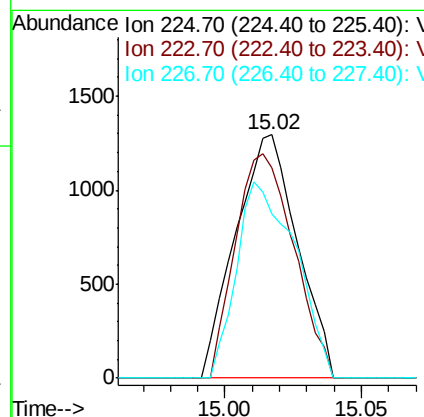
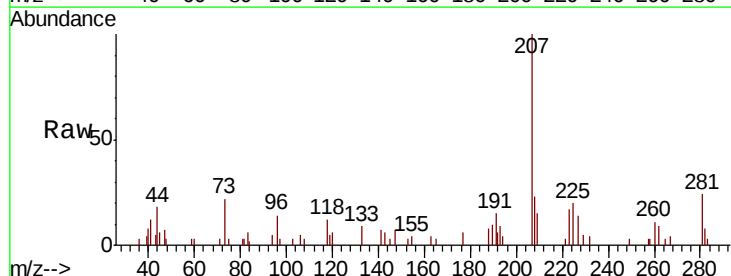
Manual Integrations
 APPROVED

MMDadoda
 10/16/2019 12:48:33 AM



#94
 Hexachlorobutadiene
 Concen: 0.736 ug/l
 RT: 15.02 min Scan# 4119
 Delta R.T. -0.00 min
 Lab File: VN058704.D
 Acq: 11 Oct 2019 15:36

Tgt Ion	Ratio	Lower	Upper
225	100		
223	87.6	32.3	96.8
227	77.2	32.4	97.0





#95

Naphthalene

Concen: 0.714 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

Instrument :

MSVOA_N

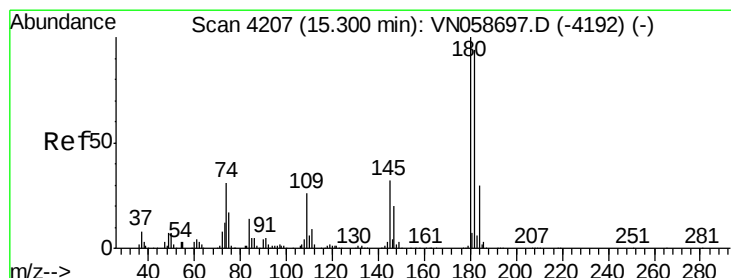
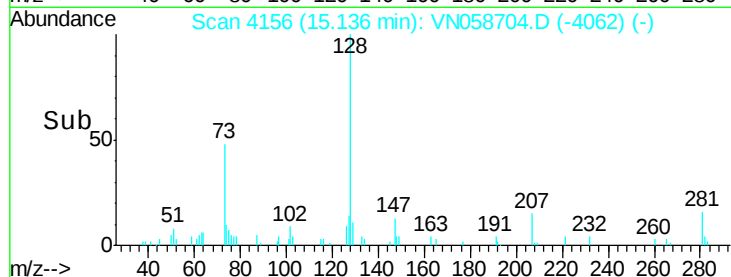
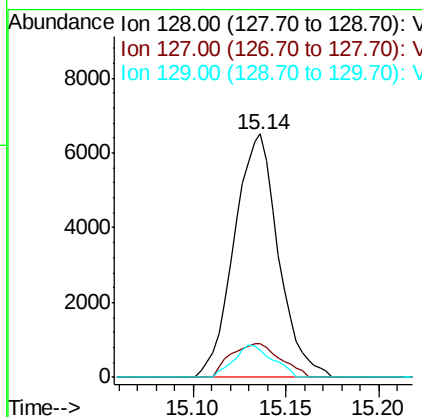
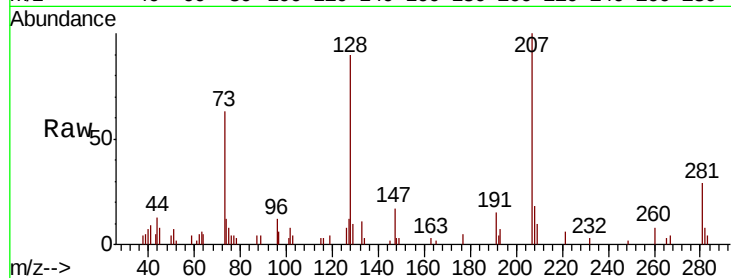
ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:	128	Resp:	10758
Ion Ratio	Lower	Upper	
128	100		
127	15.4	10.2	15.4#
129	11.5	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:48:33 AM



#96

1,2,3-Trichlorobenzene

Concen: 0.717 ug/l

RT: 15.30 min Scan# 4208

Delta R.T. 0.00 min

Lab File: VN058704.D

Acq: 11 Oct 2019 15:36

Tgt Ion:	180	Resp:	3673
Ion Ratio	Lower	Upper	
180	100		
182	109.8	47.3	142.0
145	47.1	16.2	48.6

