

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101319\
 Data File : VN058707.D
 Acq On : 11 Oct 2019 16:42
 Operator : JC/SP
 Sample : K5111-09 5PPB L00
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019

Manual Integrations
 APPROVED

MMDadoda
 10/16/2019 12:48:49 AM

Quant Time: Oct 12 00:40:49 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	423290	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	692877	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	634485	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	287459	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	326026	55.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.04%	
35) Dibromofluoromethane	7.57	113	235085	54.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.86%	
50) Toluene-d8	10.09	98	897992	52.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.94%	
62) 4-Bromofluorobenzene	12.40	95	320428	49.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.92%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	25344	4.807	ug/l	99
3) Chloromethane	2.04	50	31367	5.004	ug/l	99
4) Vinyl Chloride	2.17	62	31595	5.060	ug/l	97
5) Bromomethane	2.54	94	20491	5.395	ug/l	99
6) Chloroethane	2.68	64	19650	5.102	ug/l	98
7) Trichlorofluoromethane	3.00	101	40204	5.380	ug/l	95
8) Diethyl Ether	3.39	74	14280	5.172	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.73	101	22611	5.307	ug/l	98
10) Methyl Iodide	3.93	142	27752	4.773	ug/l	98
11) Tert butyl alcohol	4.76	59	25856	26.941	ug/l #	86
12) 1,1-Dichloroethene	3.72	96	21282	5.235	ug/l	94
13) Acrolein	3.58	56	19027	24.651	ug/l	95
14) Allyl chloride	4.30	41	39434	4.807	ug/l	94
15) Acrylonitrile	4.96	53	60656	25.062	ug/l	96
16) Acetone	3.80	43	59358	24.195	ug/l	100
17) Carbon Disulfide	4.03	76	65977	5.077	ug/l	99
18) Methyl Acetate	4.31	43	34069	5.475	ug/l	95
19) Methyl tert-butyl Ether	5.02	73	73884	5.090	ug/l	99
20) Methylene Chloride	4.52	84	26499	5.168	ug/l	94
21) trans-1,2-Dichloroethene	5.02	96	23297	5.123	ug/l	90
22) Diisopropyl ether	5.93	45	79952	5.012	ug/l	94
23) Vinyl Acetate	5.87	43	332707	25.850	ug/l	99
24) 1,1-Dichloroethane	5.82	63	46319	5.099	ug/l	99
25) 2-Butanone	6.82	43	89022	25.105	ug/l	100
26) 2,2-Dichloropropane	6.81	77	38866	4.687	ug/l	99
27) cis-1,2-Dichloroethene	6.81	96	26757	5.046	ug/l	98
28) Bromochloromethane	7.18	49	16311	5.161	ug/l	96
29) Tetrahydrofuran	7.19	42	58012	25.316	ug/l	99
30) Chloroform	7.36	83	45577	4.994	ug/l	92
31) Cyclohexane	7.64	56	49488	5.693	ug/l #	80
32) 1,1,1-Trichloroethane	7.55	97	40399	5.190	ug/l	100
36) 1,1-Dichloropropene	7.78	75	34232	4.886	ug/l	99
37) Ethyl Acetate	6.91	43	36693	5.179	ug/l	98
38) Carbon Tetrachloride	7.76	117	35174	5.152	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	39661	4.879	ug/l	96
40) Benzene	8.02	78	101787	5.059	ug/l	98
41) Methacrylonitrile	7.16	41	14005m	4.223	ug/l	
42) 1,2-Dichloroethane	8.11	62	39684	5.134	ug/l	99
43) Isopropyl Acetate	8.15	43	59716	4.948	ug/l	100
44) Trichloroethene	8.82	130	24361	4.876	ug/l	100
45) 1,2-Dichloropropane	9.11	63	27522	5.110	ug/l	100
46) Dibromomethane	9.20	93	18004	5.272	ug/l	97
47) Bromodichloromethane	9.39	83	36035	5.182	ug/l	97
48) Methyl methacrylate	9.19	41	26740	4.888	ug/l	97
49) 1,4-Dioxane	9.19	88	8522	100.687	ug/l	96
51) 4-Methyl-2-Pentanone	9.98	43	172160	25.399	ug/l	99
52) Toluene	10.15	92	61503	4.998	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	37108	4.653	ug/l	93
54) cis-1,3-Dichloropropene	9.83	75	39846	4.706	ug/l	94
55) 1,1,2-Trichloroethane	10.56	97	25920	5.146	ug/l	97
56) Ethyl methacrylate	10.43	69	35069	4.766	ug/l	99
57) 1,3-Dichloropropane	10.71	76	43313	5.047	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.69	63	79925	22.539	ug/l	98
59) 2-Hexanone	10.75	43	130180	24.852	ug/l	99
60) Dibromochloromethane	10.90	129	24326	4.682	ug/l	92
61) 1,2-Dibromoethane	11.00	107	24831	4.921	ug/l	96
64) Tetrachloroethene	10.63	164	23127	5.208	ug/l	95
65) Chlorobenzene	11.43	112	65295	5.067	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	23420	4.915	ug/l	95
67) Ethyl Benzene	11.51	91	114535	4.987	ug/l	97
68) m/p-Xylenes	11.62	106	83704	9.711	ug/l	100
69) o-Xylene	11.95	106	40457	4.851	ug/l	97
70) Styrene	11.97	104	62606	4.580	ug/l	99
71) Bromoform	12.13	173	16153	4.625	ug/l #	98
73) Isopropylbenzene	12.25	105	108383	5.206	ug/l	99
74) N-amyl acetate	12.07	43	44786	4.790	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.51	83	36166	5.273	ug/l	99
76) 1,2,3-Trichloropropane	12.56	75	35871m	5.688	ug/l	
77) Bromobenzene	12.53	156	26423	5.218	ug/l	99
78) n-propylbenzene	12.59	91	129318	5.331	ug/l	100
79) 2-Chlorotoluene	12.68	91	74118	4.923	ug/l	98
80) 1,3,5-Trimethylbenzene	12.74	105	90637	5.100	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.30	75	10097	4.289	ug/l	83
82) 4-Chlorotoluene	12.78	91	77406	5.010	ug/l	98
83) tert-Butylbenzene	13.00	119	76403	5.018	ug/l	98
84) 1,2,4-Trimethylbenzene	13.05	105	87301	4.948	ug/l	100
85) sec-Butylbenzene	13.18	105	101888	5.078	ug/l	99
86) p-Isopropyltoluene	13.29	119	89812	4.925	ug/l	98
87) 1,3-Dichlorobenzene	13.29	146	45399	4.861	ug/l	97
88) 1,4-Dichlorobenzene	13.37	146	47605	5.014	ug/l	94
89) n-Butylbenzene	13.62	91	76661	4.547	ug/l	100
90) Hexachloroethane	13.88	117	16207	4.967	ug/l	99
91) 1,2-Dichlorobenzene	13.66	146	46874	5.150	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.28	75	8810	5.499	ug/l	86

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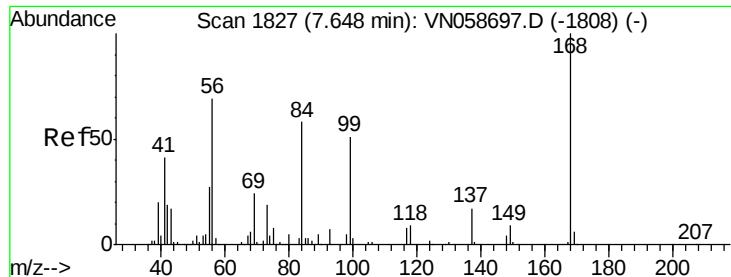
Manual Integrations
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MMDadoda
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.92	180	24361	4.388	ug/l	98
94) Hexachlorobutadiene	15.02	225	14303	4.892	ug/l	97
95) Naphthalene	15.13	128	72265	4.529	ug/l	99
96) 1,2,3-Trichlorobenzene	15.30	180	23715	4.375	ug/l	95

(#) = 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: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

Tot Ion:168 Resp: 423290

Ion Ratio Lower Upper

168 100

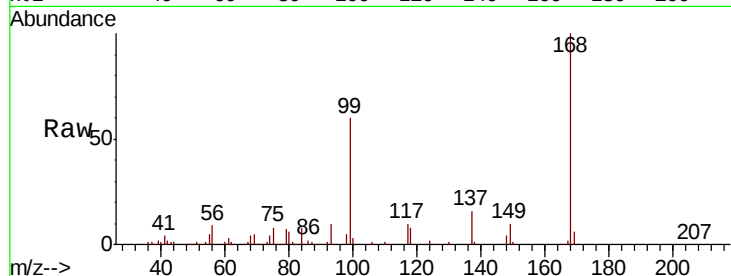
99 59.6 47.5 71.3

Manual Integrations

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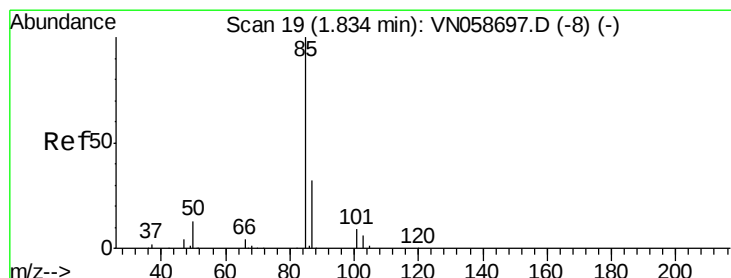
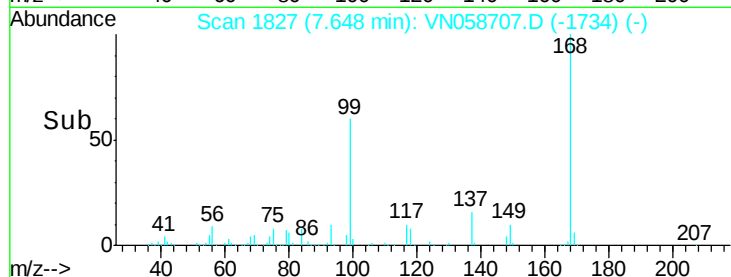
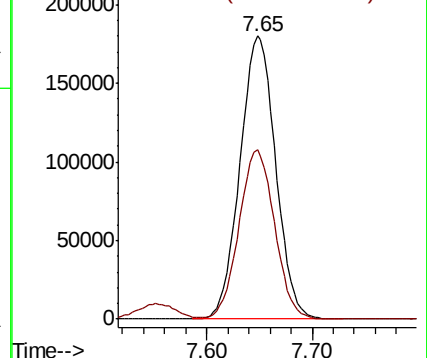
MMDadoda

10/16/2019 12:48:49 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 4.807 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN058707.D

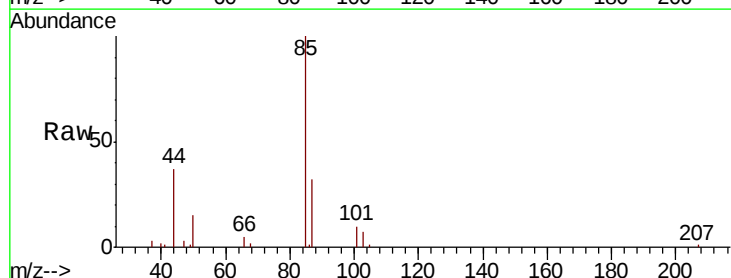
Acq: 11 Oct 2019 16:42

Tgt Ion: 85 Resp: 25344

Ion Ratio Lower Upper

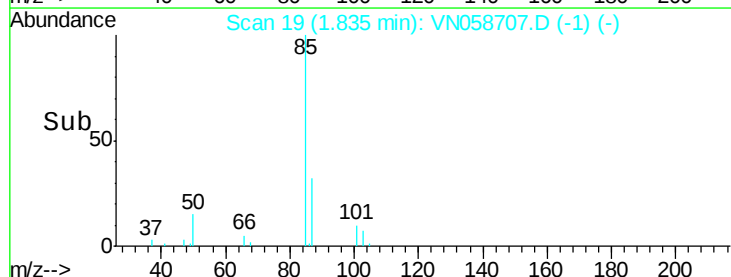
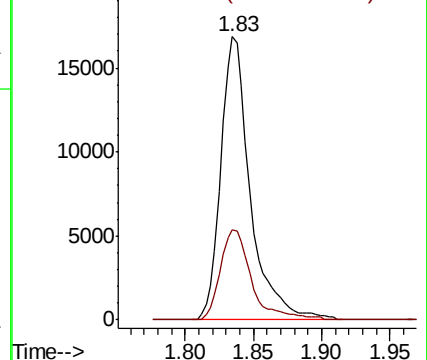
85 100

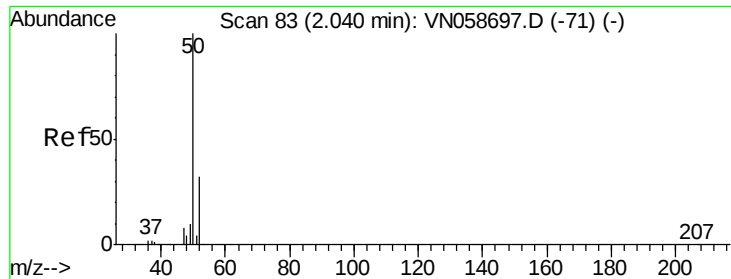
87 32.1 16.2 48.6



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 5.004 ug/l

RT: 2.04 min Scan# 84

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Tot Ion: 50 Resp: 31367

Ion Ratio Lower Upper

50 100

52 32.8 25.8 38.6

Instrument :

MSVOA_N

ClientSampleId :

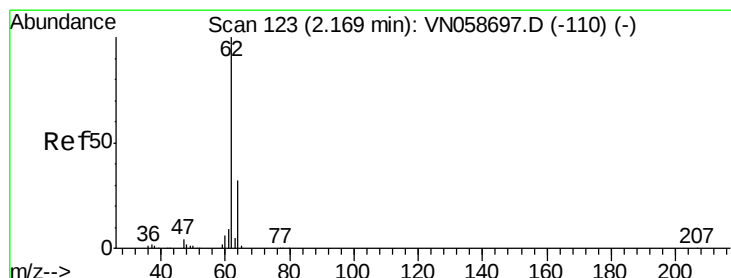
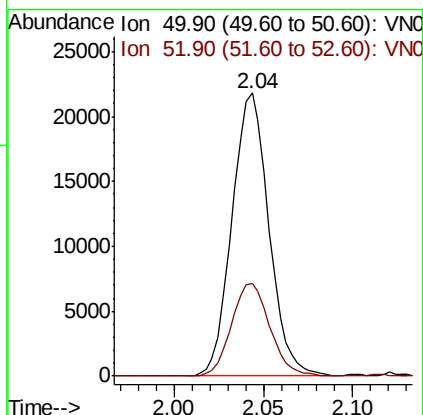
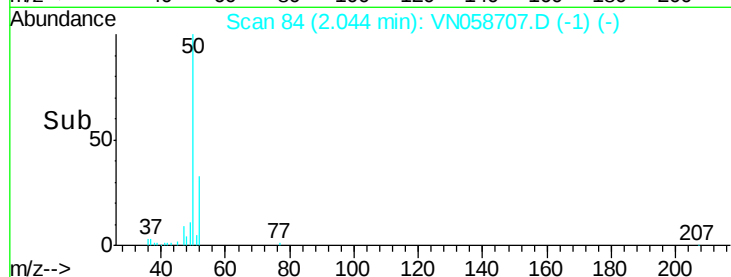
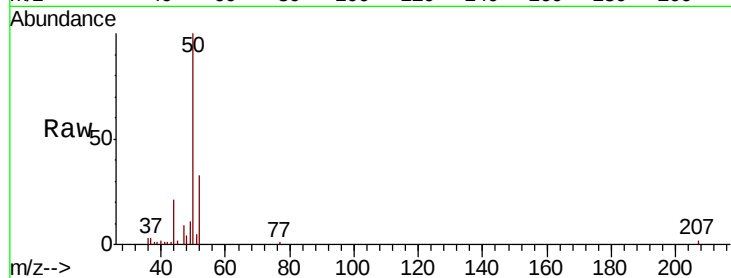
MDL-MDL-WATER-03-QT4-2019

Manual Integrations

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#4

Vinyl Chloride

Concen: 5.060 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058707.D

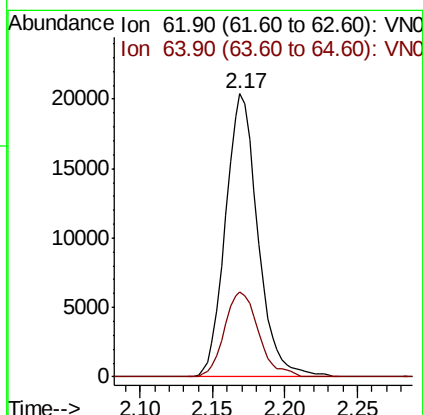
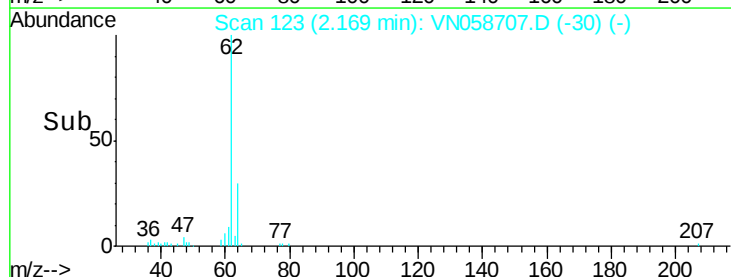
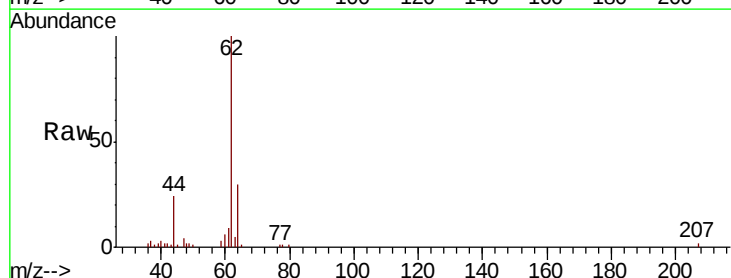
Acq: 11 Oct 2019 16:42

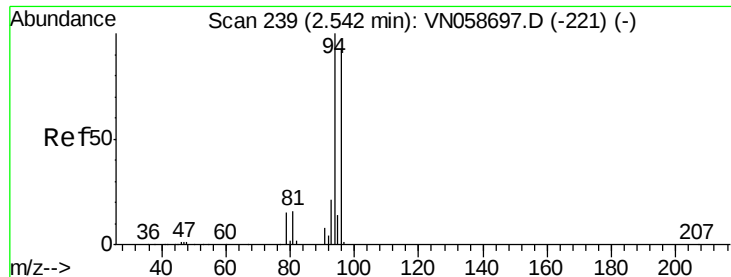
Tgt Ion: 62 Resp: 31595

Ion Ratio Lower Upper

62 100

64 30.1 25.3 37.9





#5

Bromomethane

Concen: 5.395 ug/l

RT: 2.54 min Scan# 238

Delta R.T. -0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

Tot Ion: 94 Resp: 20491

Ion Ratio Lower Upper

94 100

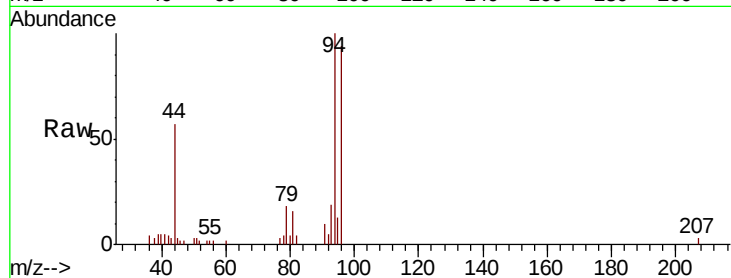
96 93.9 74.5 111.7

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.54

10000

8000

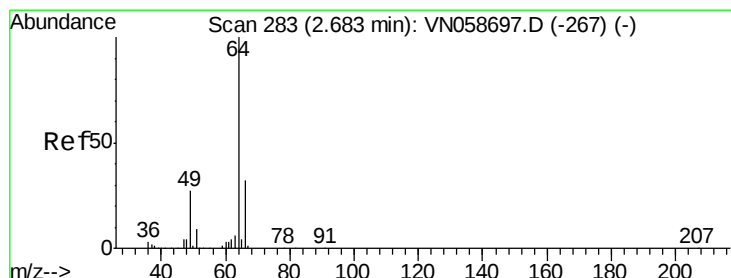
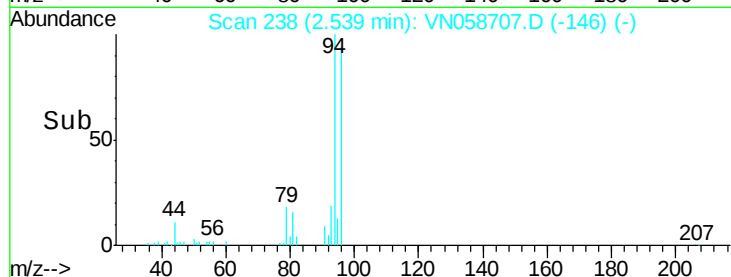
6000

4000

2000

0

Time-->



#6

Chloroethane

Concen: 5.102 ug/l

RT: 2.68 min Scan# 282

Delta R.T. -0.00 min

Lab File: VN058707.D

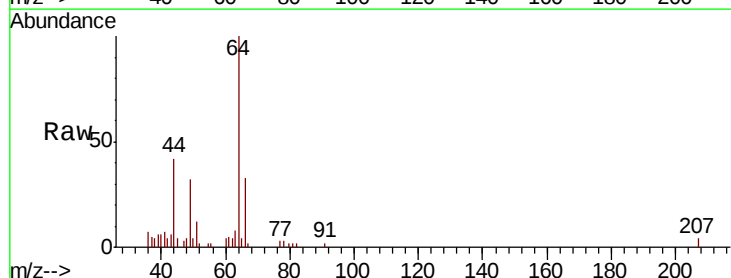
Acq: 11 Oct 2019 16:42

Tgt Ion: 64 Resp: 19650

Ion Ratio Lower Upper

64 100

66 33.1 25.4 38.2



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.68

10000

8000

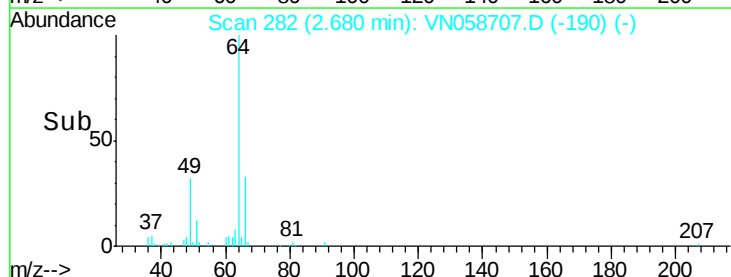
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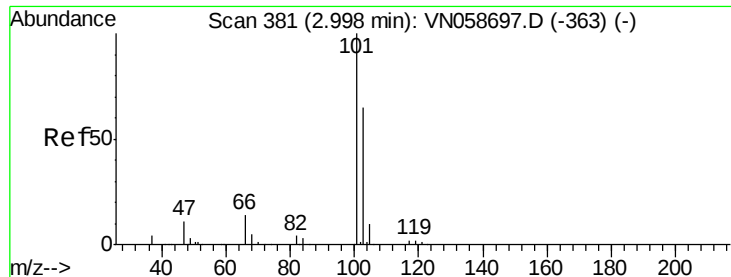
4000

2000

0

Time-->





#7

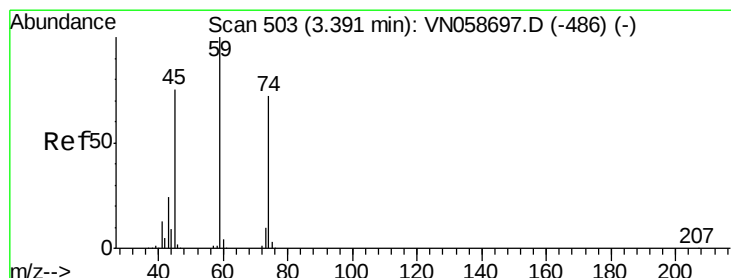
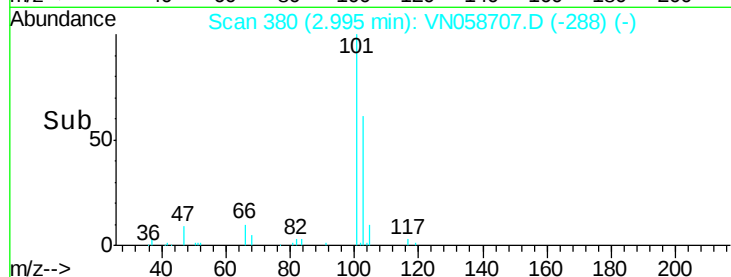
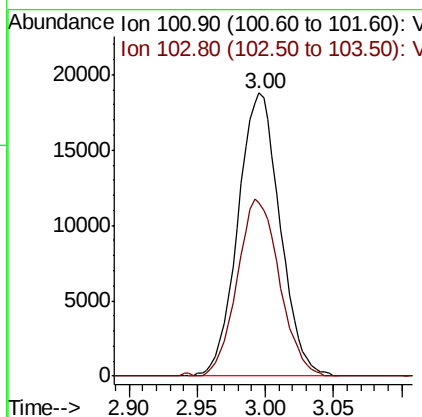
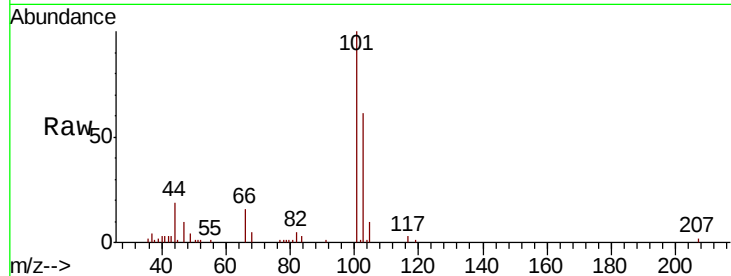
Trichlorofluoromethane
Concen: 5.380 ug/l
RT: 3.00 min Scan# 380
Delta R.T. -0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

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Tot Ion	Ratio	Lower	Upper
101	100		
103	61.1	51.8	77.6

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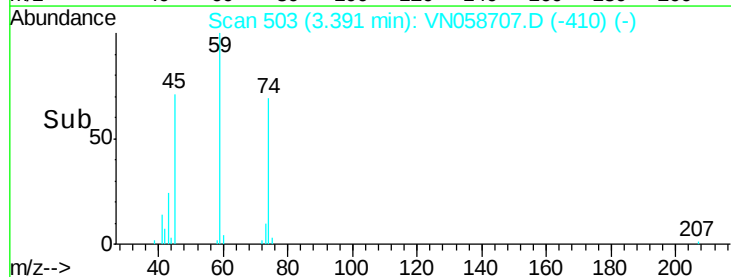
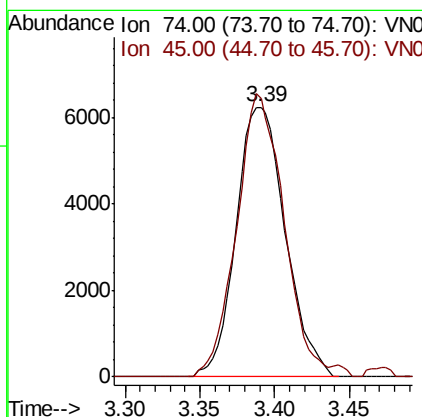
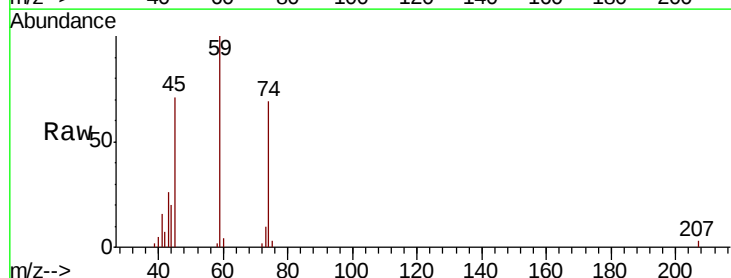
MMDadoda
10/16/2019 12:48:49 AM

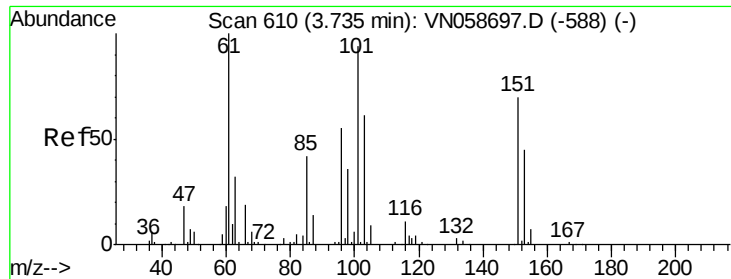


#8

Diethyl Ether
Concen: 5.172 ug/l
RT: 3.39 min Scan# 503
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Tgt Ion	Ratio	Lower	Upper
74	100		
45	102.3	51.3	154.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.307 ug/l

RT: 3.73 min Scan# 610

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

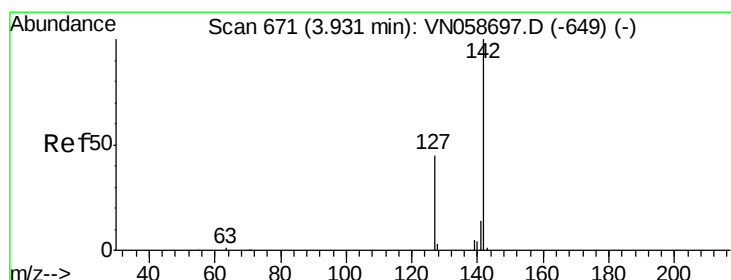
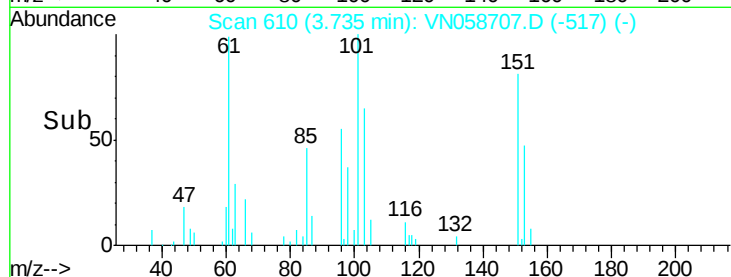
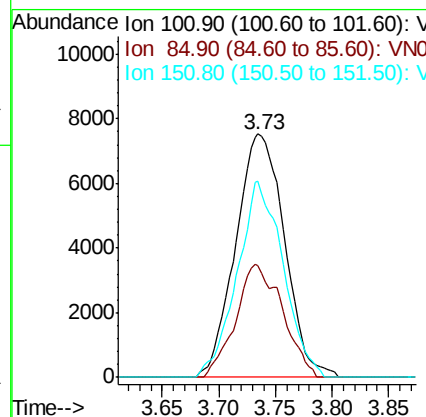
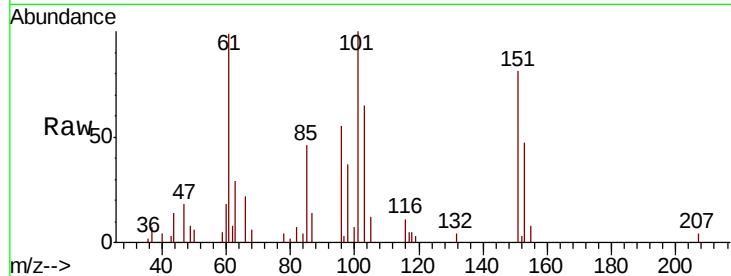
ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

Tot Ion:	101	Resp:	22611
Ion Ratio	Lower	Upper	
101	100		
85	44.5	37.0	55.6
151	75.8	61.8	92.6

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10/16/2019 12:48:49 AM



#10

Methyl Iodide

Concen: 4.773 ug/l

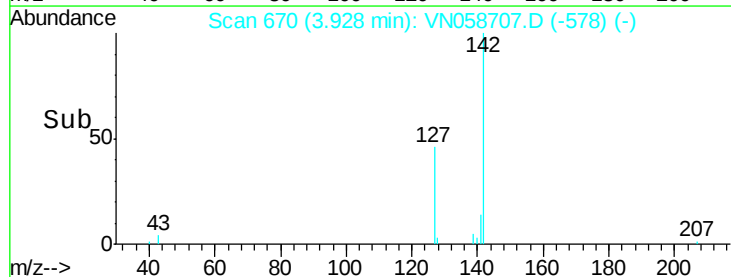
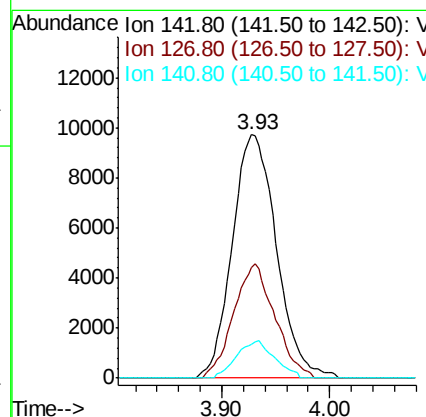
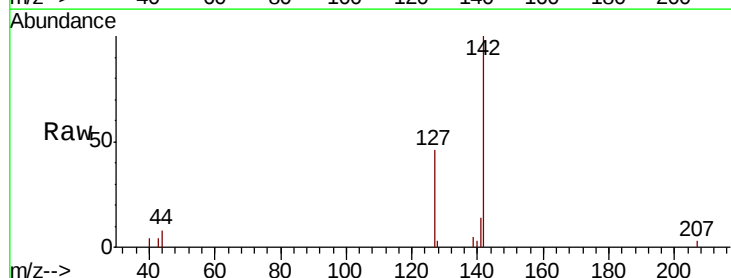
RT: 3.93 min Scan# 670

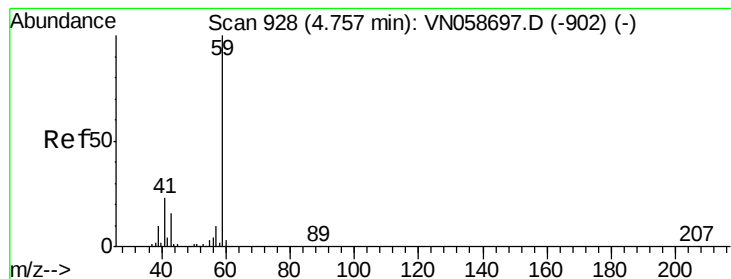
Delta R.T. -0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Tgt Ion:	142	Resp:	27752
Ion Ratio	Lower	Upper	
142	100		
127	43.8	36.4	54.6
141	13.2	11.1	16.7





#11

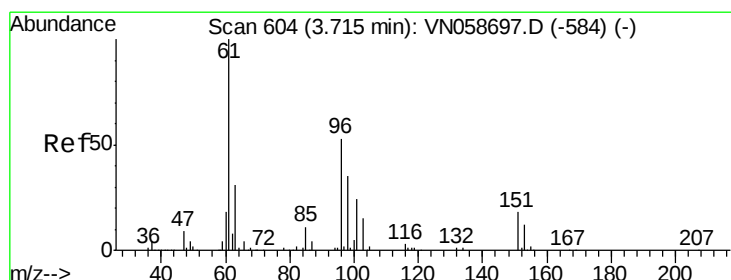
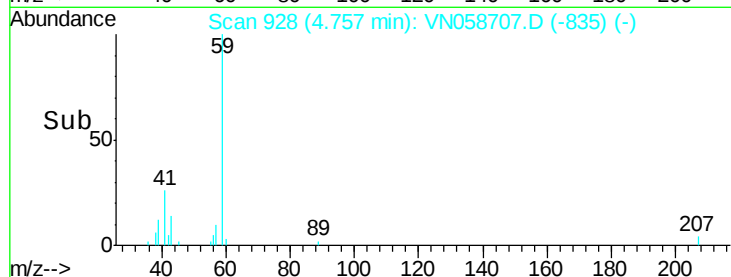
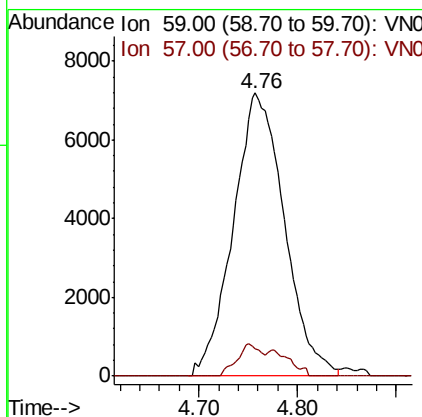
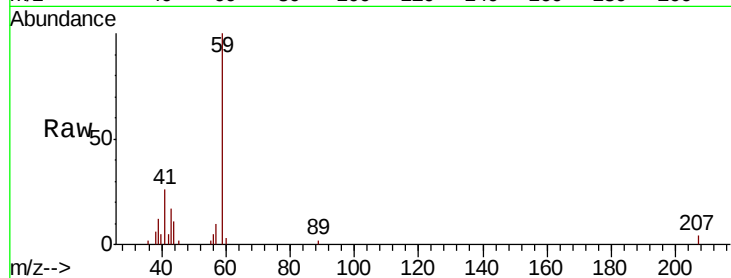
Tert butyl alcohol
Concen: 26.941 ug/l
RT: 4.76 min Scan# 928
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion: 59 Resp: 25856
Ion Ratio Lower Upper
59 100
57 5.4 8.4 12.6#

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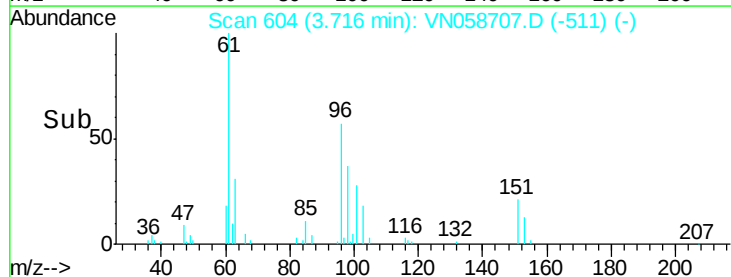
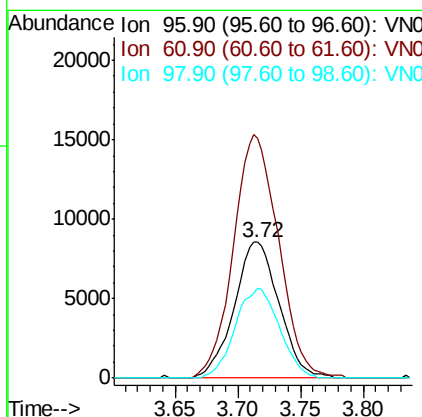
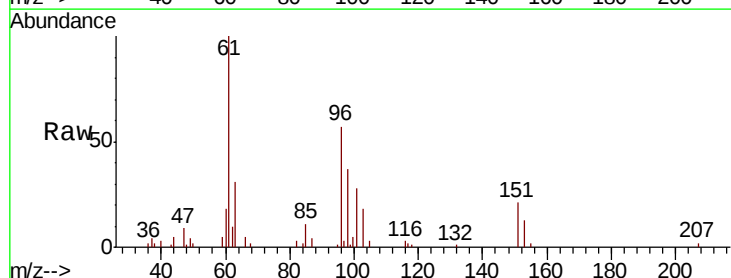
MMDadoda
10/16/2019 12:48:49 AM

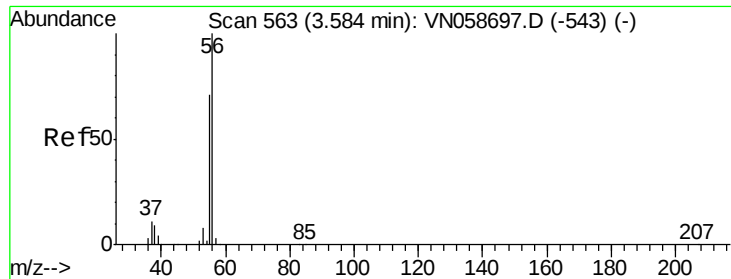


#12

1,1-Dichloroethene
Concen: 5.235 ug/l
RT: 3.72 min Scan# 604
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Tgt Ion: 96 Resp: 21282
Ion Ratio Lower Upper
96 100
61 176.7 151.3 226.9
98 66.1 52.6 78.8





#13

Acrolein

Concen: 24.651 ug/l

RT: 3.58 min Scan# 563

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

Tot Ion: 56 Resp: 19027

Ion Ratio Lower Upper

56 100

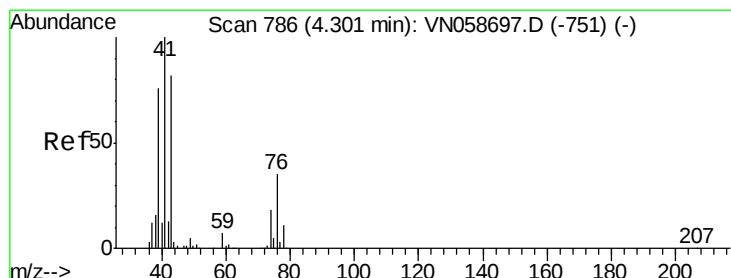
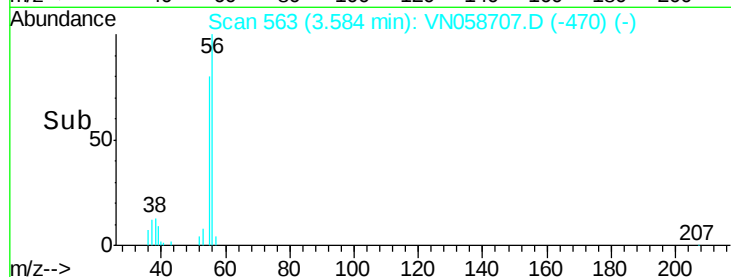
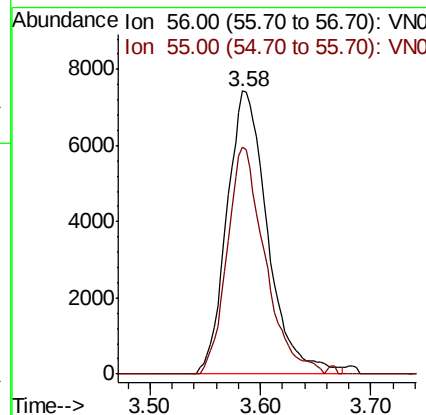
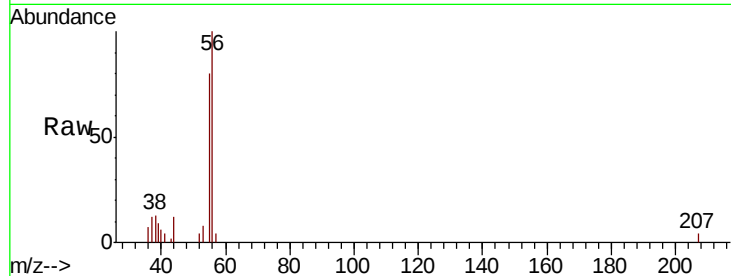
55 74.8 56.7 85.1

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#14

Allyl chloride

Concen: 4.807 ug/l

RT: 4.30 min Scan# 786

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

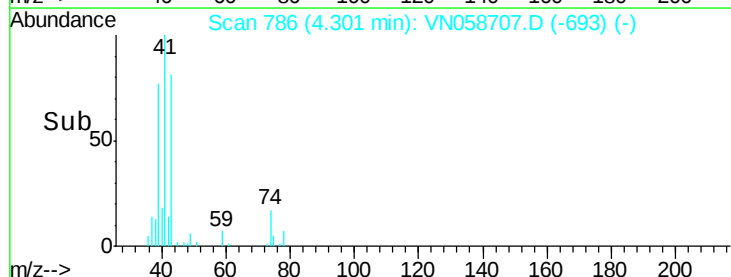
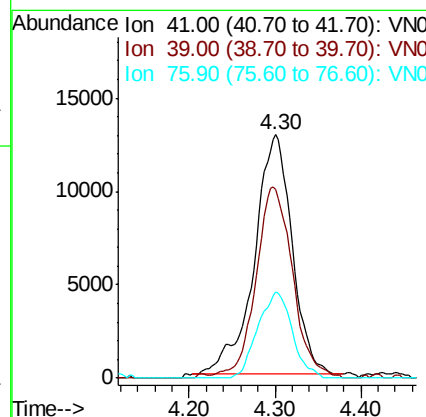
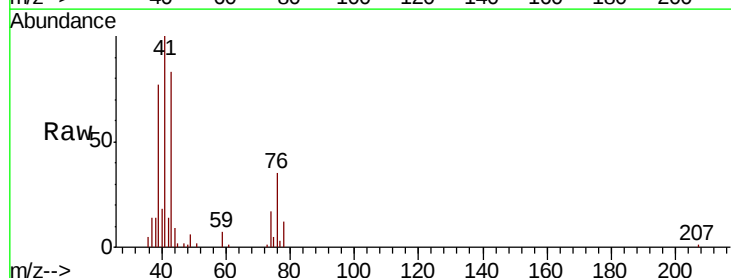
Tgt Ion: 41 Resp: 39434

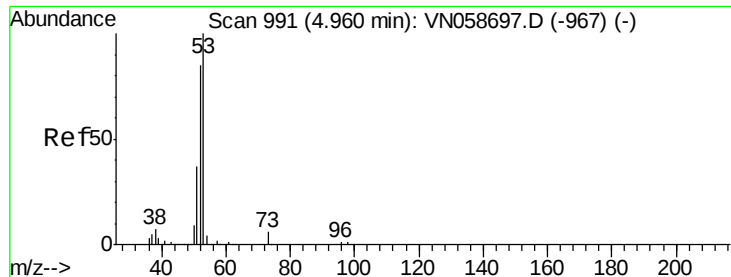
Ion Ratio Lower Upper

41 100

39 77.3 57.2 85.8

76 32.5 25.0 37.6





#15

Acrylonitrile

Concen: 25.062 ug/l

RT: 4.96 min Scan# 992

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

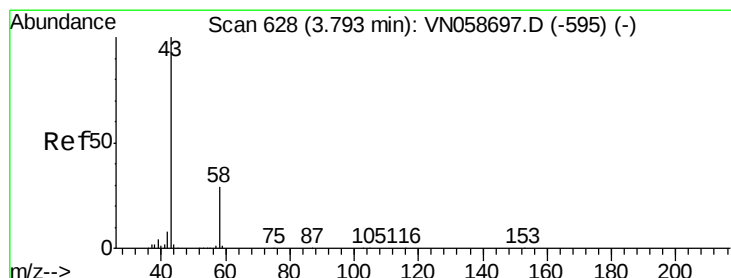
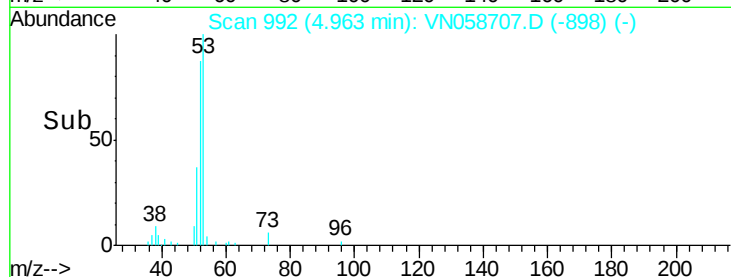
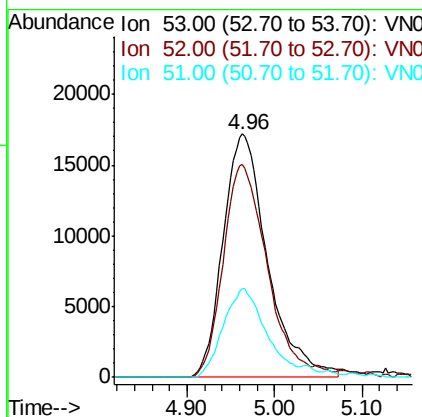
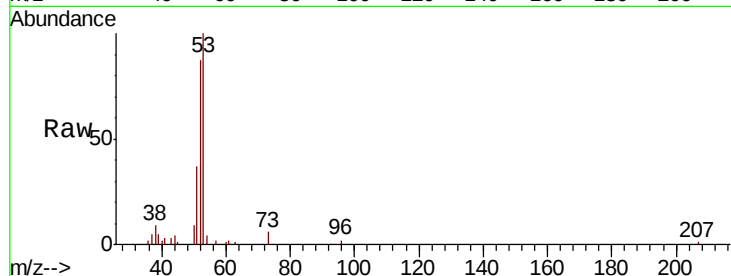
ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

Tot Ion:	53	Resp:	60656
Ion Ratio	Lower	Upper	
53	100		
52	86.9	66.2	99.2
51	34.8	29.4	44.2

Manual Integrations
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#16

Acetone

Concen: 24.195 ug/l

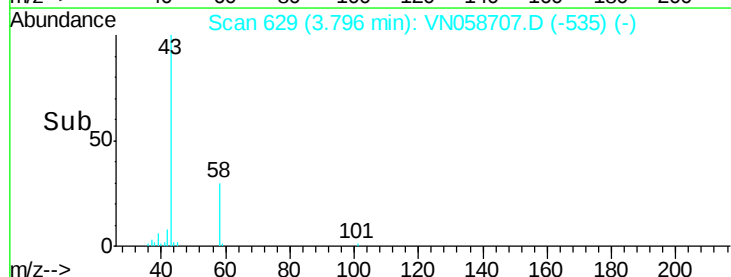
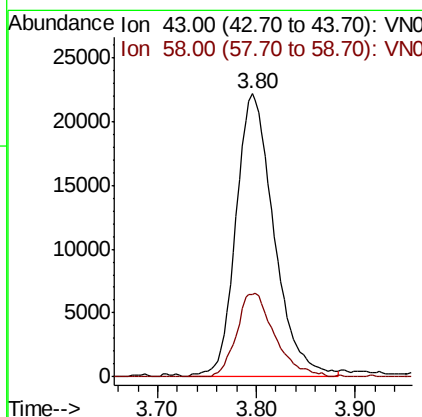
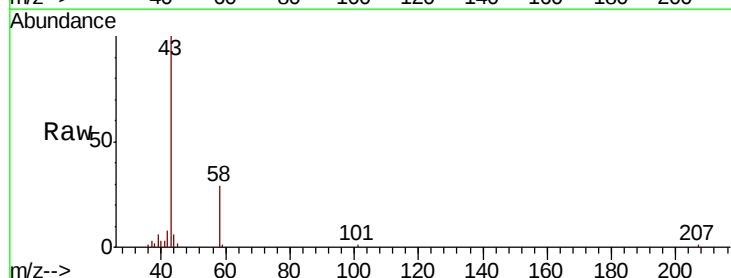
RT: 3.80 min Scan# 629

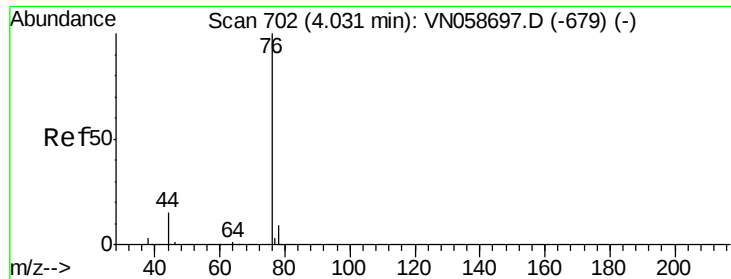
Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Tgt Ion:	43	Resp:	59358
Ion Ratio	Lower	Upper	
43	100		
58	29.2	23.3	34.9





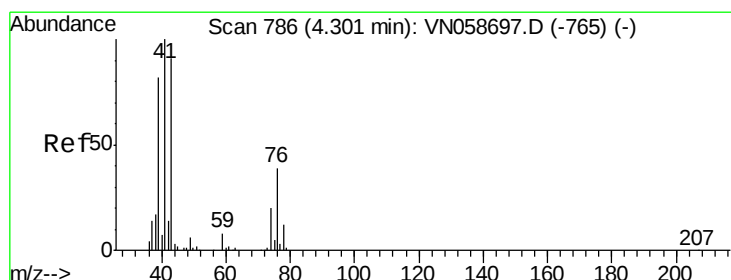
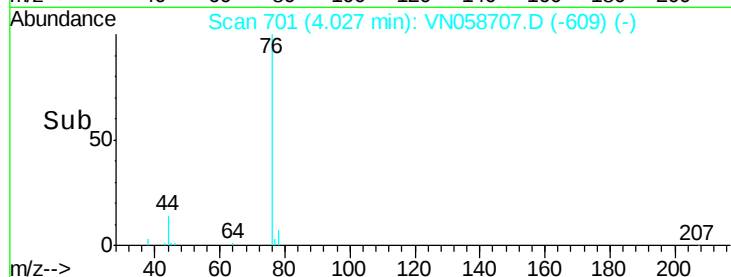
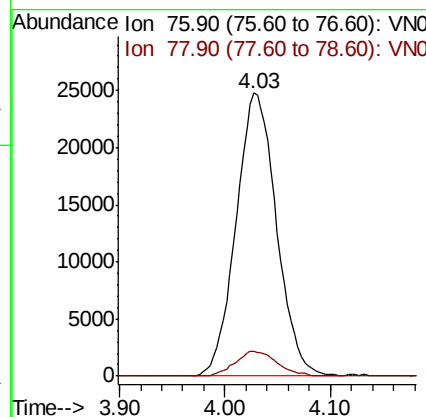
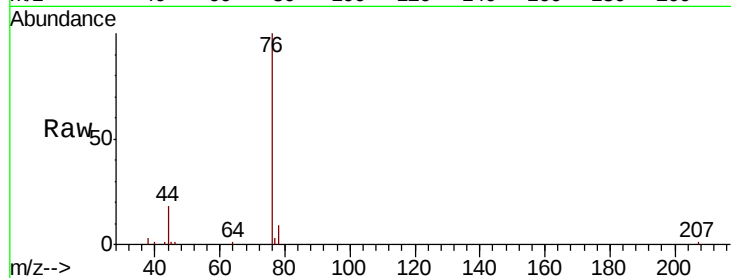
#17
Carbon Disulfide
Concen: 5.077 ug/l
RT: 4.03 min Scan# 701
Delta R.T. -0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion: 76 Resp: 65977
Ion Ratio Lower Upper
76 100
78 8.7 7.1 10.7

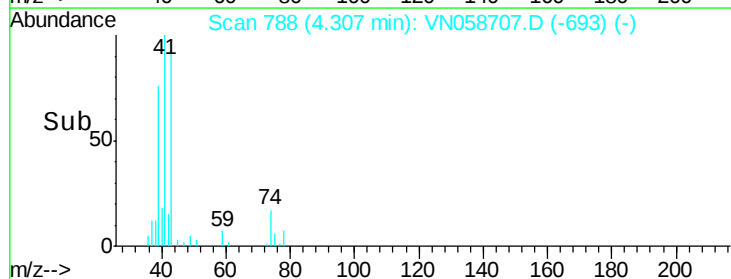
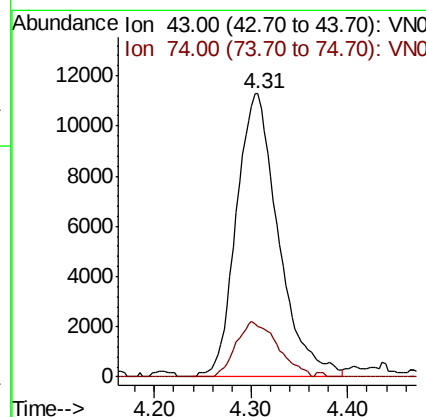
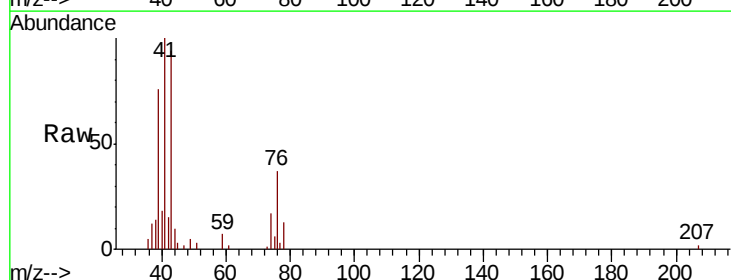
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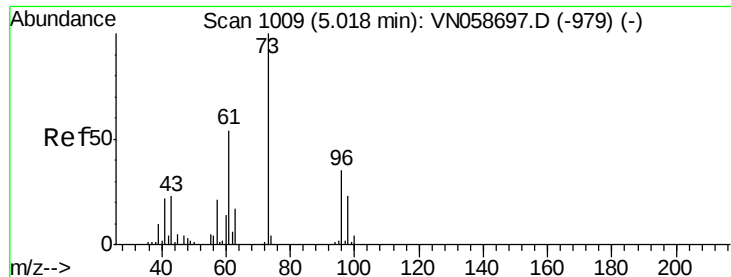
MMDadoda
10/16/2019 12:48:49 AM



#18
Methyl Acetate
Concen: 5.475 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.01 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Tgt Ion: 43 Resp: 34069
Ion Ratio Lower Upper
43 100
74 19.4 17.2 25.8





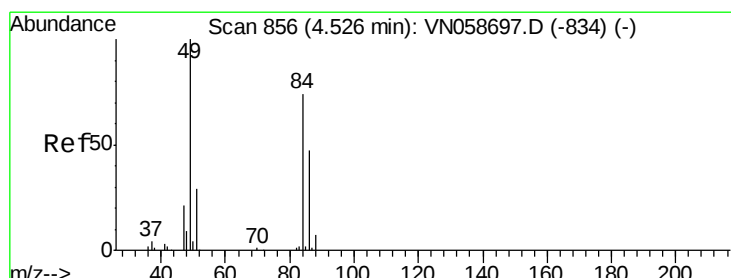
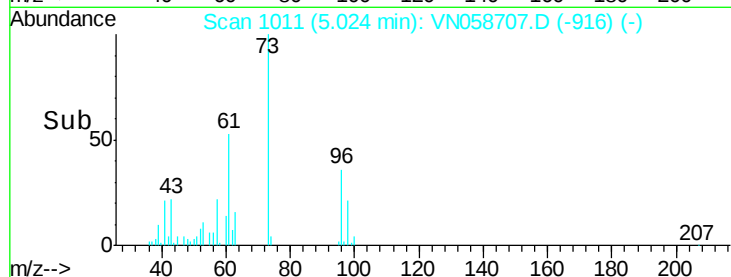
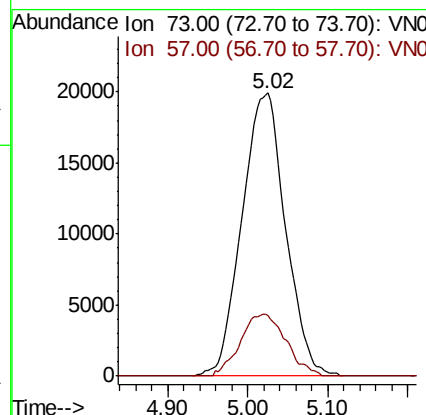
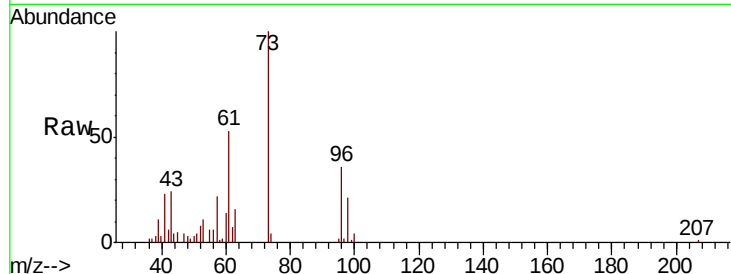
#19
Methvl tert-butvl Ether
Concen: 5.090 ug/l
RT: 5.02 min Scan# 1011
Delta R.T. 0.01 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion: 73 Resp: 73884
Ion Ratio Lower Upper
73 100
57 21.5 17.0 25.6

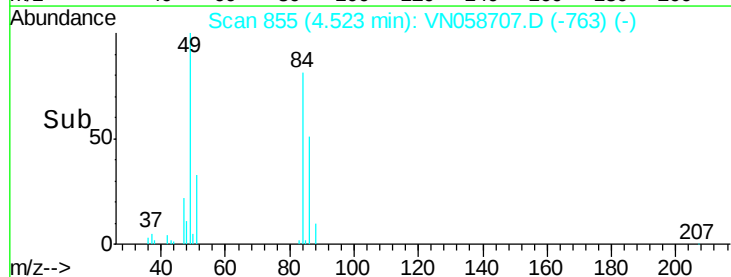
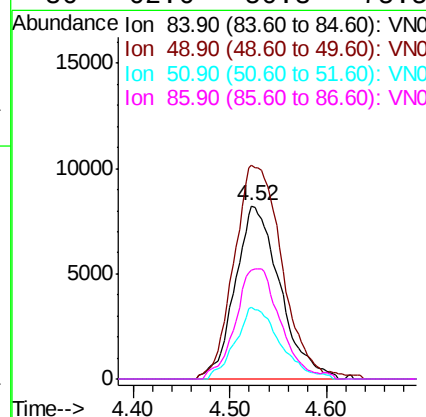
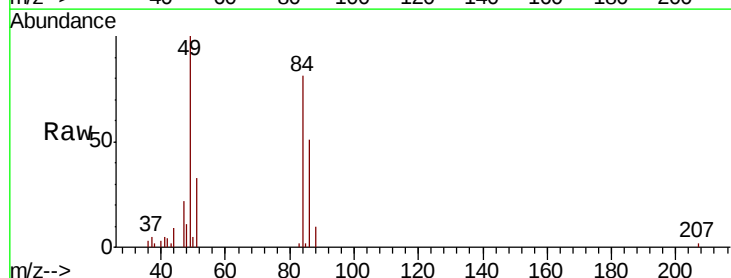
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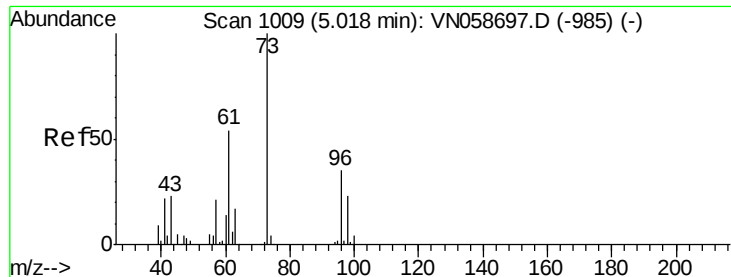
MMDadoda
10/16/2019 12:48:49 AM



#20
Methylene Chloride
Concen: 5.168 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Tgt Ion: 84 Resp: 26499
Ion Ratio Lower Upper
84 100
49 123.2 107.6 161.4
51 41.2 31.4 47.0
86 62.6 50.3 75.5





#21

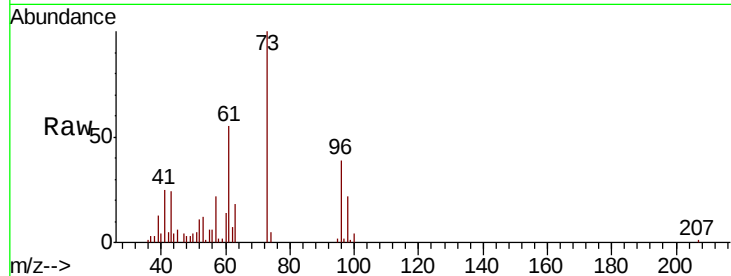
trans-1,2-Dichloroethene
Concen: 5.123 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	141.1	123.6	185.4
98	57.4	52.1	78.1

Manual Integrations
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MMDadoda
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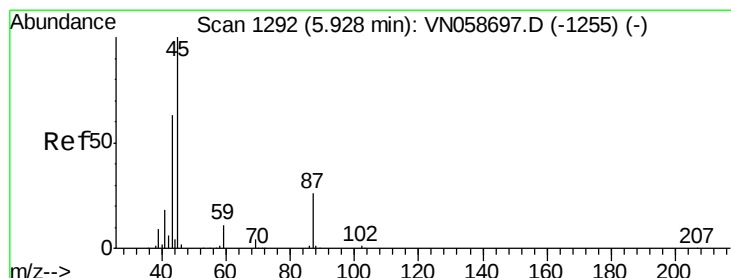
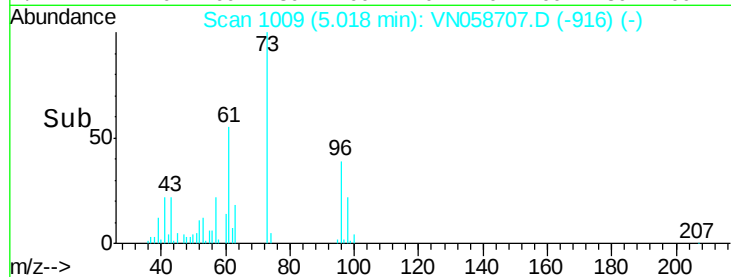
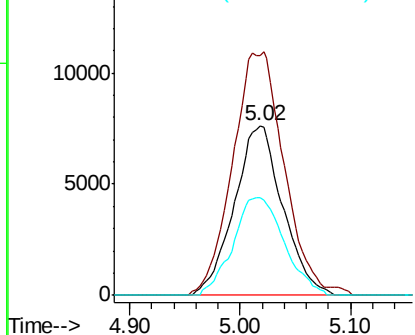


Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether
Concen: 5.012 ug/l
RT: 5.93 min Scan# 1293
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Tgt Ion	Ratio	Lower	Upper
45	100		
43	69.7	50.6	75.8
87	25.2	21.1	31.7
59	12.4	9.0	13.4

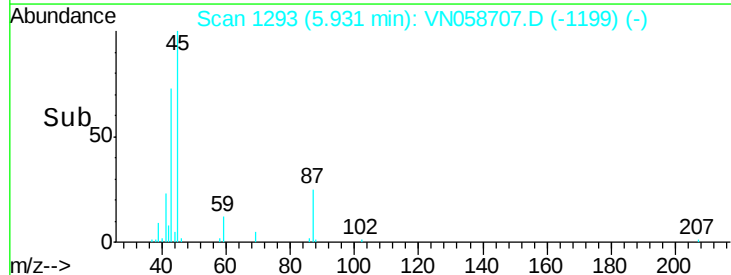
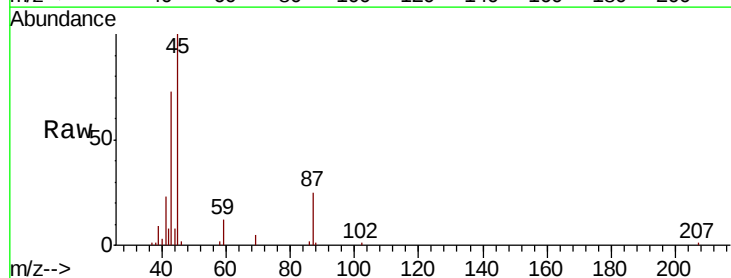
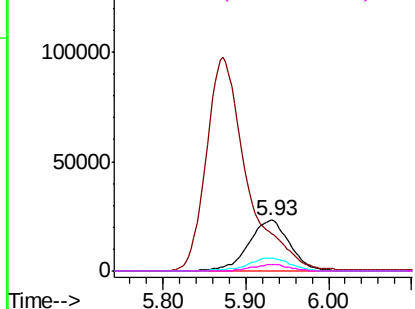
Abundance

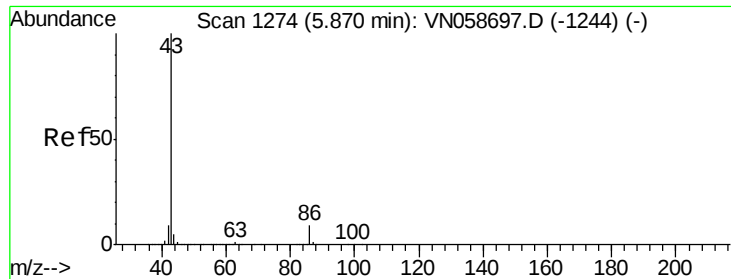
Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





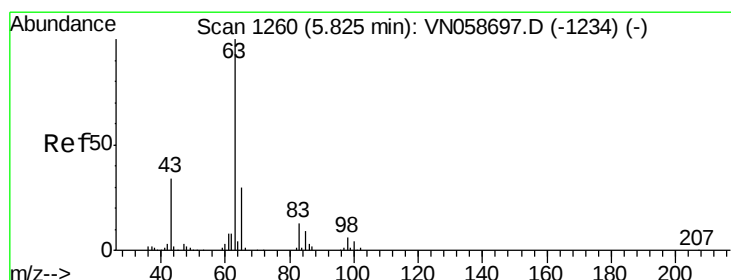
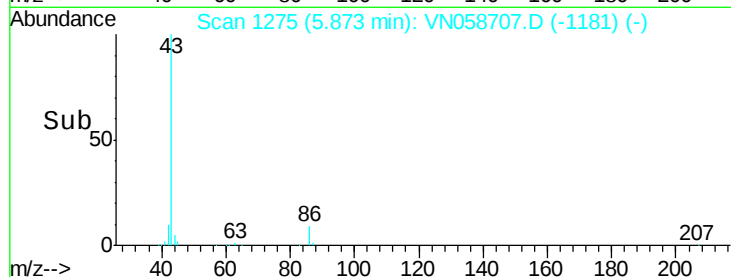
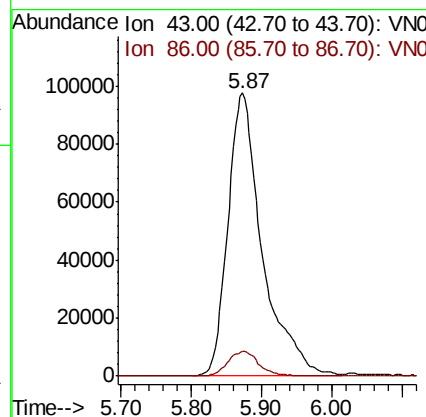
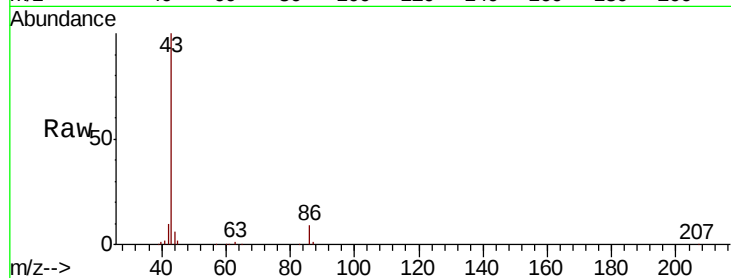
#23
 Vinyl Acetate
 Concen: 25.850 ug/l
 RT: 5.87 min Scan# 1275
 Delta R.T. 0.00 min
 Lab File: VN058707.D
 Acq: 11 Oct 2019 16:42

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019

Tot Ion	43	Resp	332707
Ion Ratio	100	Lower	Upper
43	100		
86	8.8	7.4	11.0

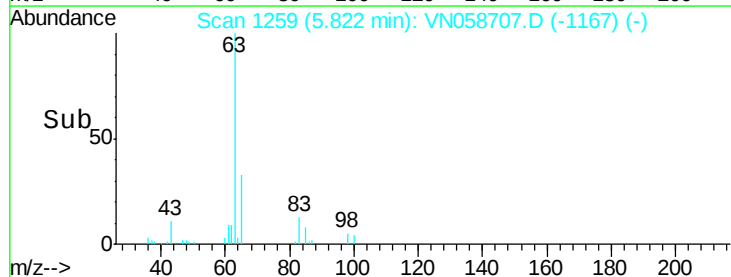
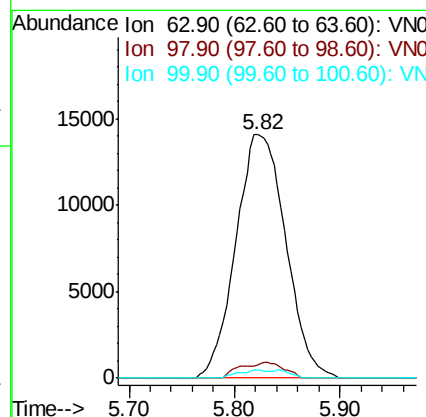
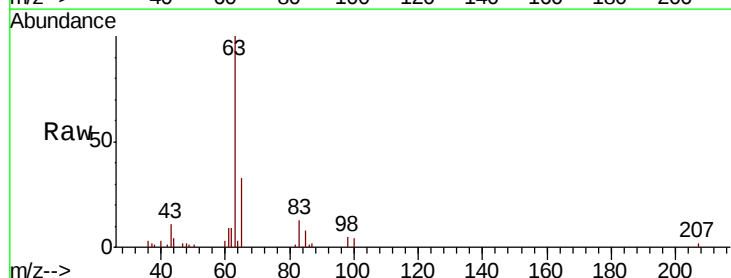
Manual Integrations
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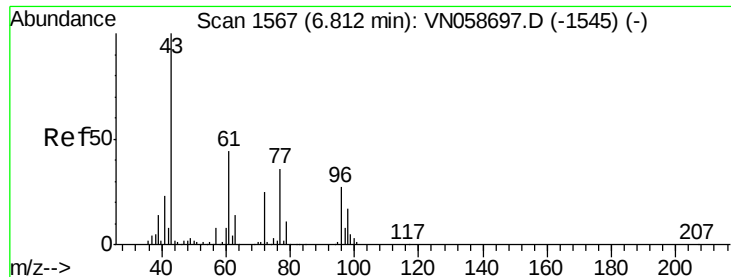
MMDadoda
 10/16/2019 12:48:49 AM



#24
 1,1-Dichloroethane
 Concen: 5.099 ug/l
 RT: 5.82 min Scan# 1259
 Delta R.T. -0.00 min
 Lab File: VN058707.D
 Acq: 11 Oct 2019 16:42

Tgt Ion	63	Resp	46319
Ion Ratio	100	Lower	Upper
63	100		
98	5.4	2.9	8.6
100	3.6	1.8	5.5





#25

2-Butanone

Concen: 25.105 ug/l

RT: 6.82 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

Tot Ion: 43 Resp: 89022

Ion Ratio Lower Upper

43 100

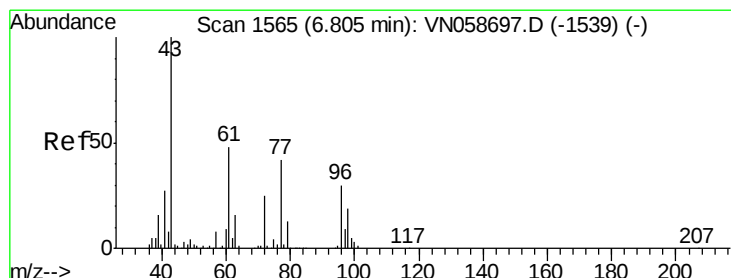
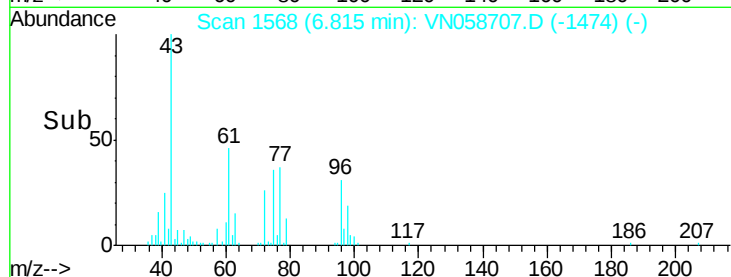
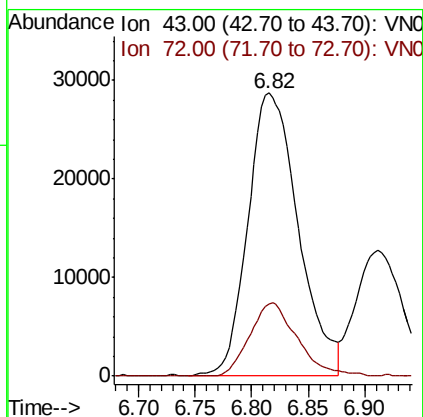
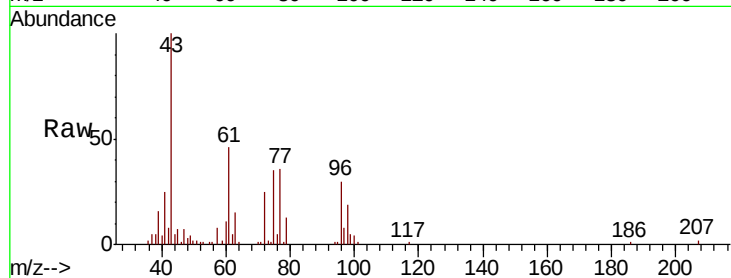
72 25.3 20.2 30.2

Manual Integrations

APPROVED

MMDadoda

10/16/2019 12:48:49 AM



#26

2,2-Dichloropropane

Concen: 4.687 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VN058707.D

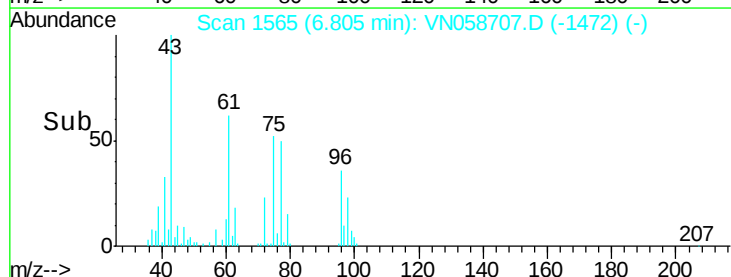
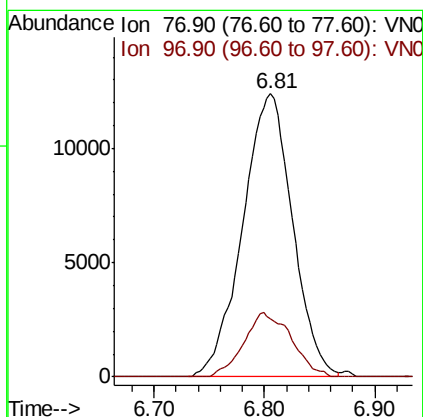
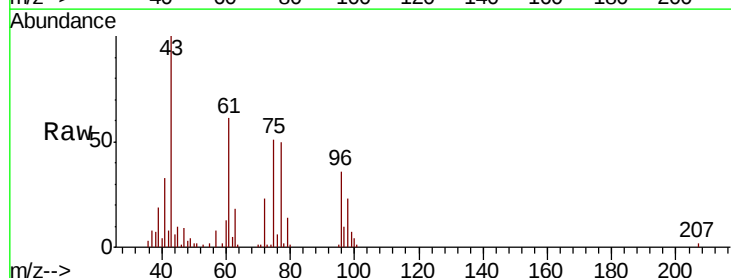
Acq: 11 Oct 2019 16:42

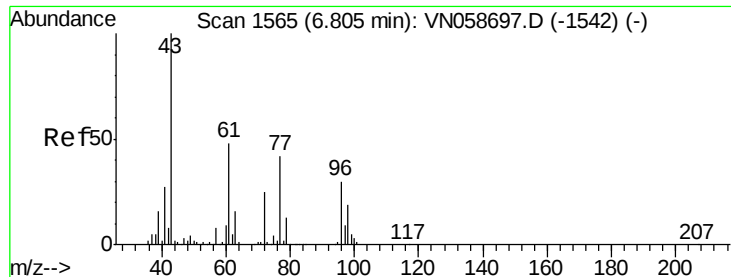
Tgt Ion: 77 Resp: 38866

Ion Ratio Lower Upper

77 100

97 21.6 10.7 31.9





#27

cis-1,2-Dichloroethene

Concen: 5.046 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

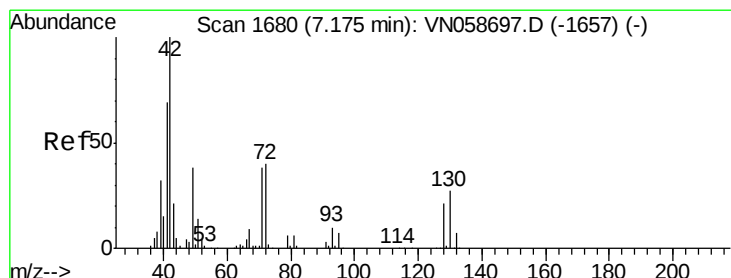
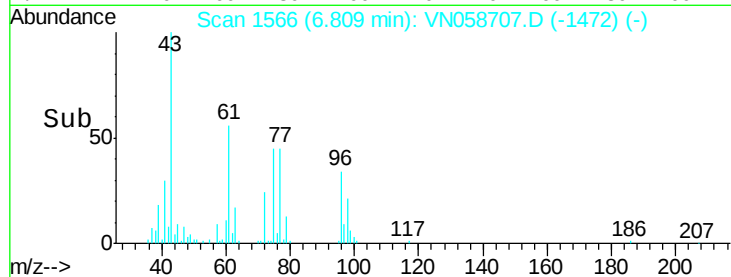
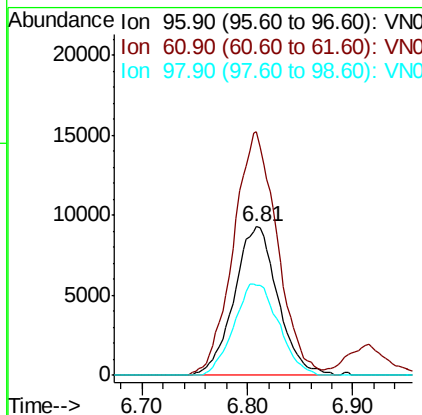
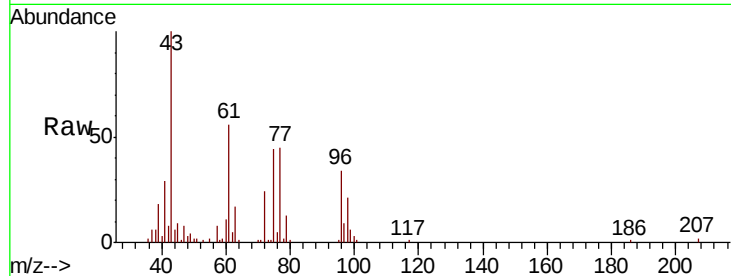
ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

Tot Ion:	96	Resp:	26757
Ion	Ratio	Lower	Upper
96	100		
61	164.2	0.0	324.8
98	62.7	0.0	129.2

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#28

Bromochloromethane

Concen: 5.161 ug/l

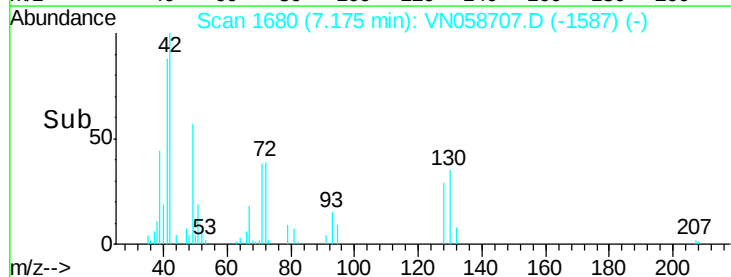
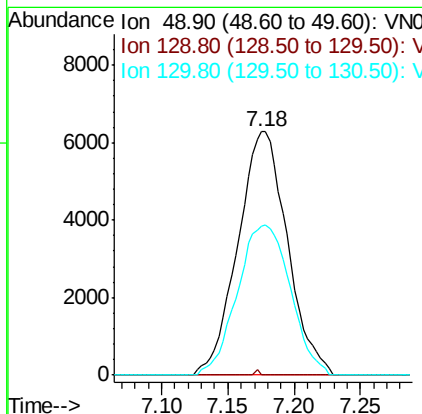
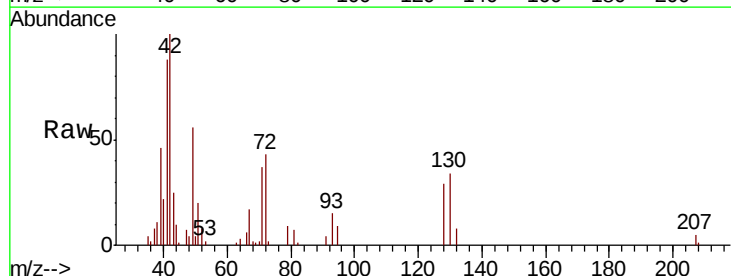
RT: 7.18 min Scan# 1680

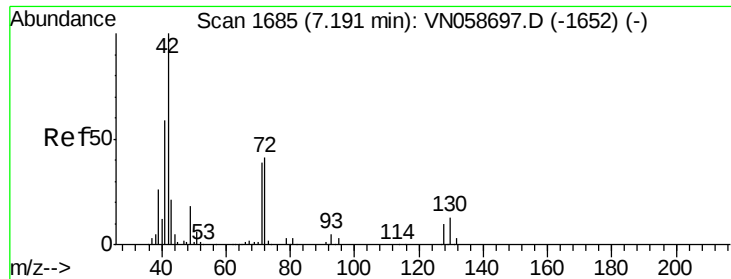
Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Tgt Ion:	49	Resp:	16311
Ion	Ratio	Lower	Upper
49	100		
129	0.2	0.0	3.6
130	65.8	55.0	82.4





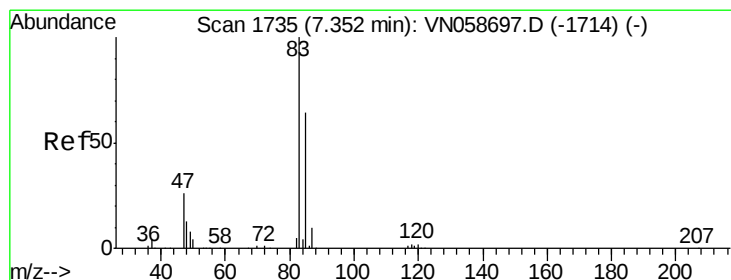
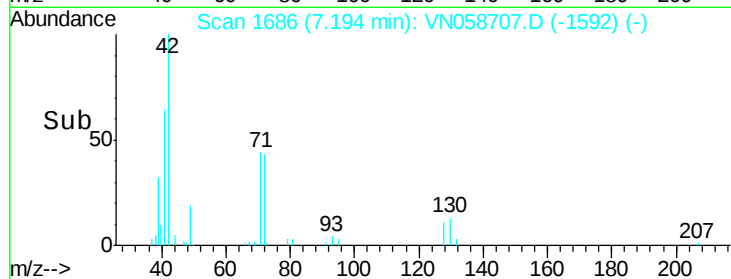
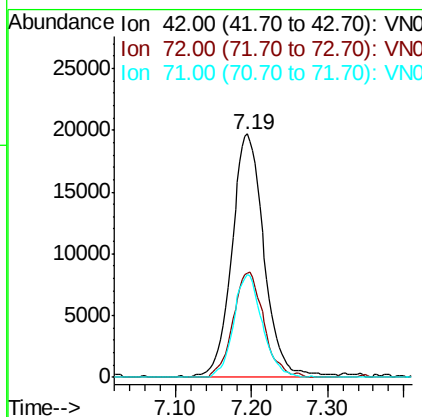
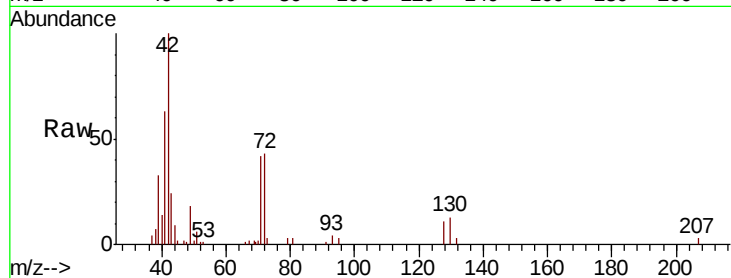
#29
Tetrahydrofuran
Concen: 25.316 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion:	42	Resp:	58012
Ion Ratio		Lower	Upper
42	100		
72	40.9	32.8	49.2
71	37.7	31.1	46.7

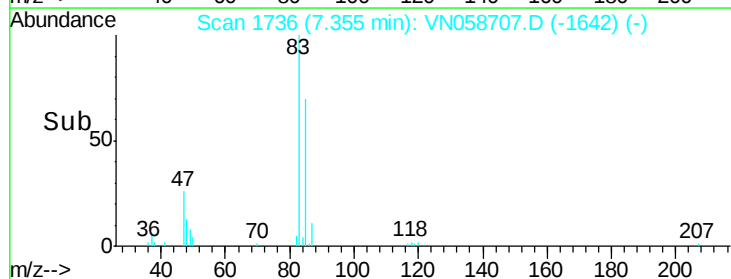
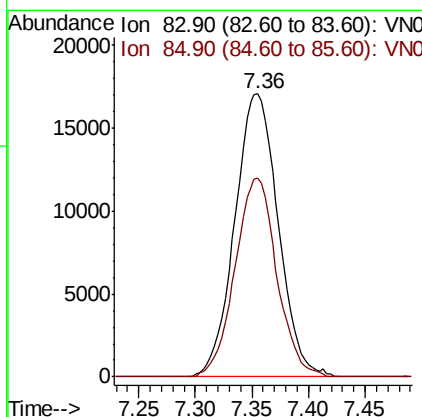
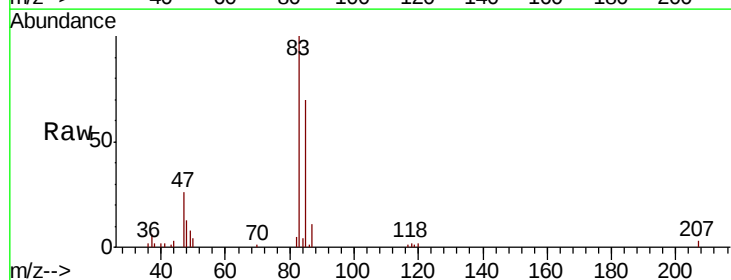
Manual Integrations
APPROVED

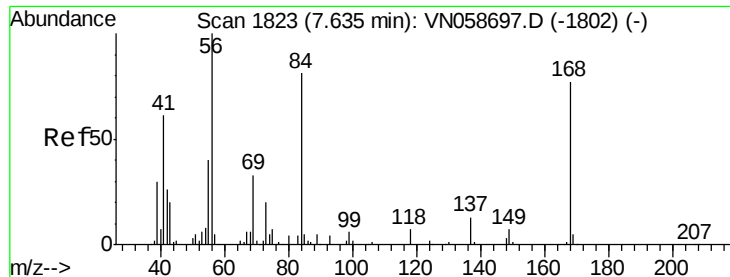
MMDadoda
10/16/2019 12:48:49 AM



#30
Chloroform
Concen: 4.994 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Tgt Ion:	83	Resp:	45577
Ion Ratio		Lower	Upper
83	100		
85	70.4	51.0	76.6





#31

Cyclohexane

Concen: 5.693 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

Tot Ion: 56 Resp: 49488

Ion Ratio Lower Upper

56 100

69 57.3 26.2 39.4#

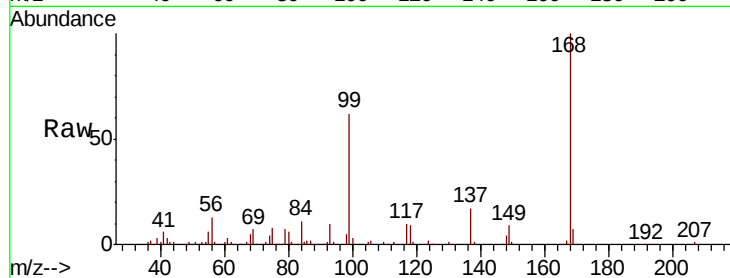
84 90.3 64.9 97.3

Manual Integrations

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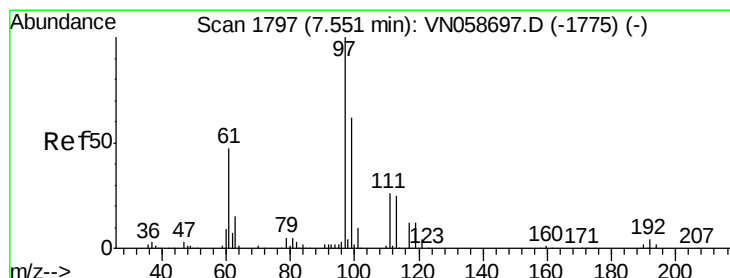
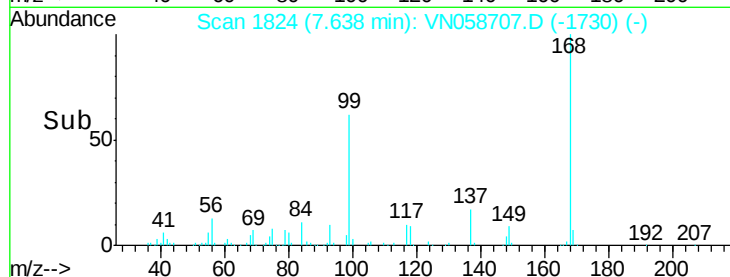
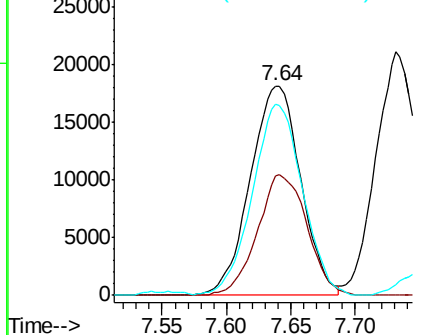
10/16/2019 12:48:49 AM



Abundance Ion 56.00 (55.70 to 56.70): VN058707.D (-1730) (-)

Ion 69.00 (68.70 to 69.70): VN058707.D (-1730) (-)

Ion 84.00 (83.70 to 84.70): VN058707.D (-1730) (-)



#32

1,1,1-Trichloroethane

Concen: 5.190 ug/l

RT: 7.55 min Scan# 1798

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

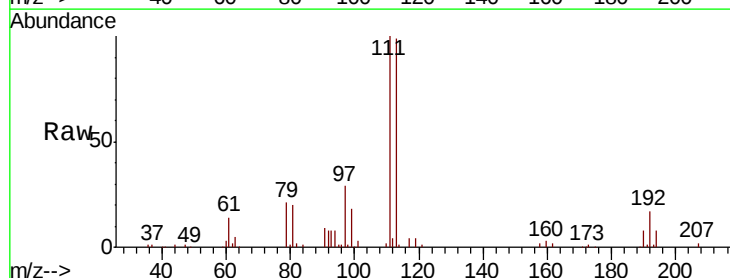
Tgt Ion: 97 Resp: 40399

Ion Ratio Lower Upper

97 100

99 63.5 50.8 76.2

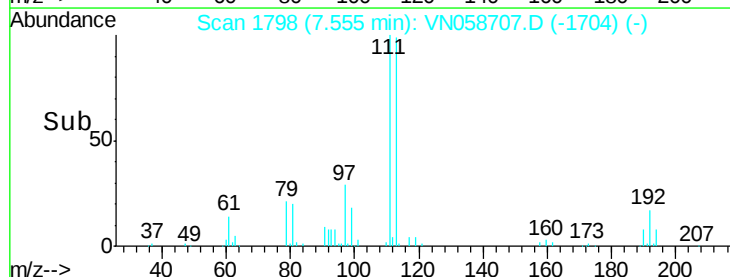
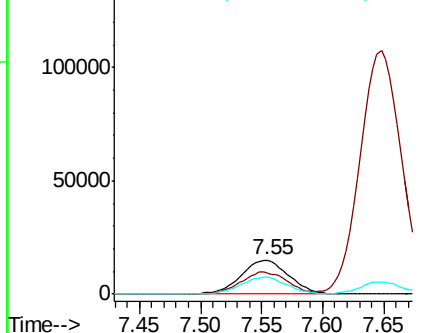
61 47.7 38.1 57.1

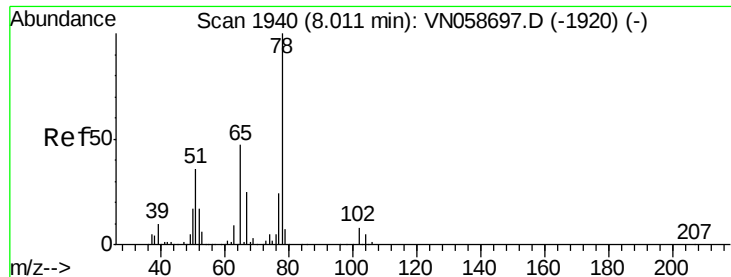


Abundance Ion 96.90 (96.60 to 97.60): VN058707.D (-1704) (-)

Ion 98.90 (98.60 to 99.60): VN058707.D (-1704) (-)

Ion 60.90 (60.60 to 61.60): VN058707.D (-1704) (-)





#33

1,2-Dichloroethane-d4

Concen: 55.016 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

Tot Ion: 65 Resp: 326026

Ion Ratio Lower Upper

65 100

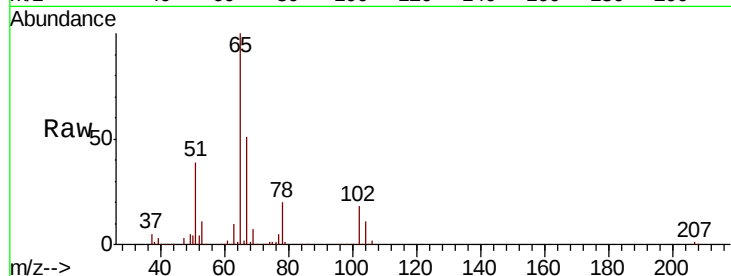
67 52.2 0.0 103.8

Manual Integrations

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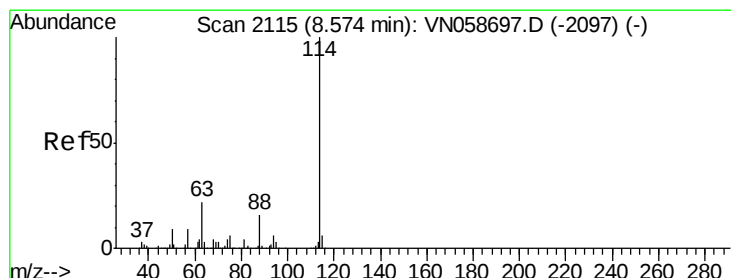
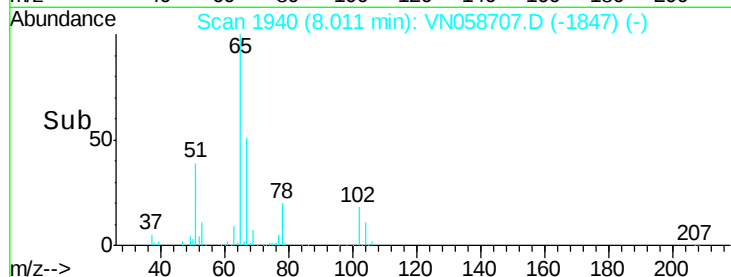
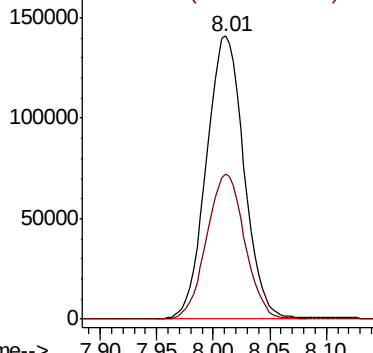
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Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

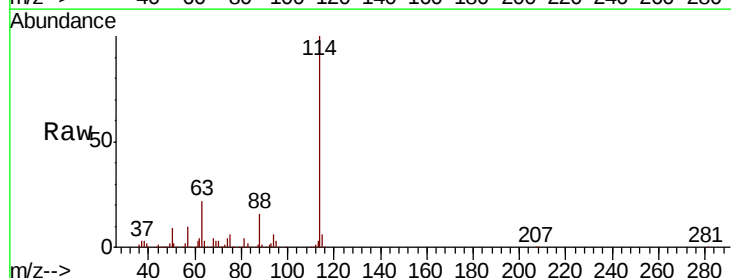
Tgt Ion: 114 Resp: 692877

Ion Ratio Lower Upper

114 100

63 22.4 0.0 43.8

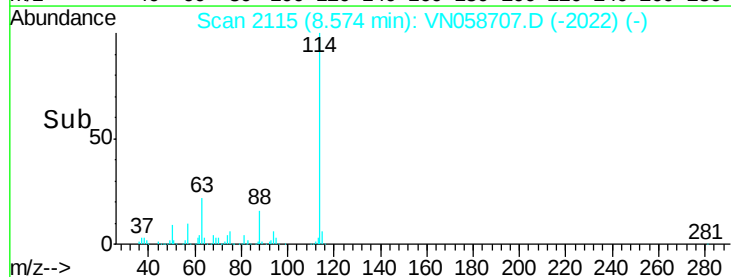
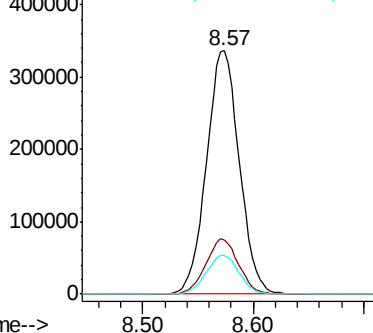
88 15.8 0.0 32.0

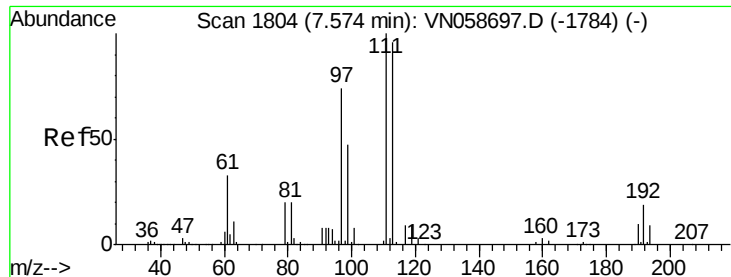


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0





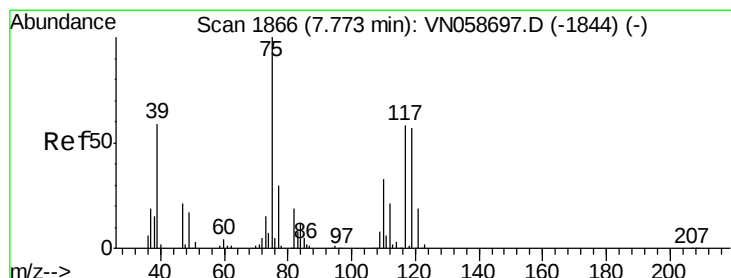
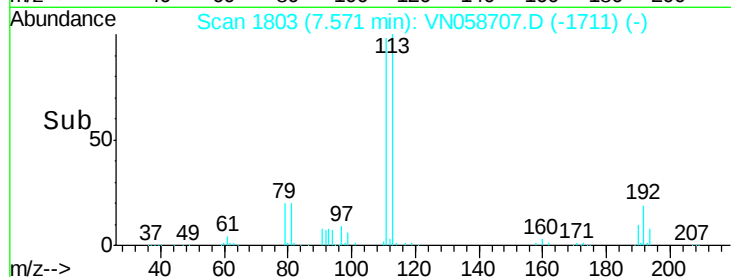
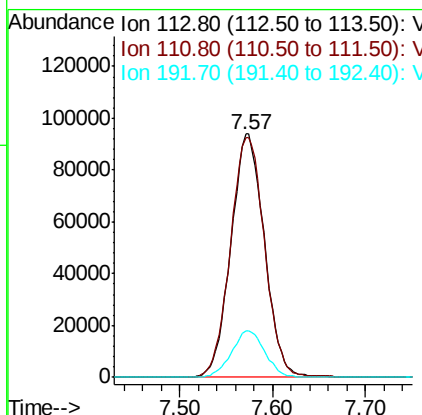
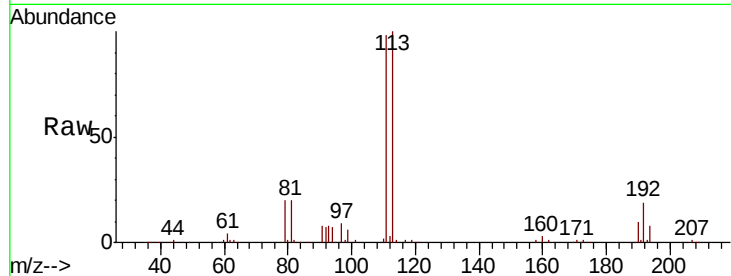
#35
Dibromofluoromethane
Concen: 54.930 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
113	100	235085		
111	100.3	82.3	123.5	
192	19.0	15.0	22.6	

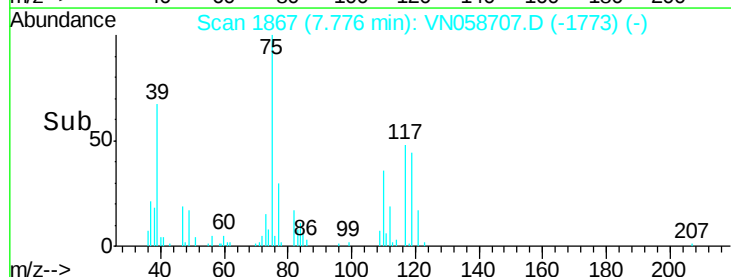
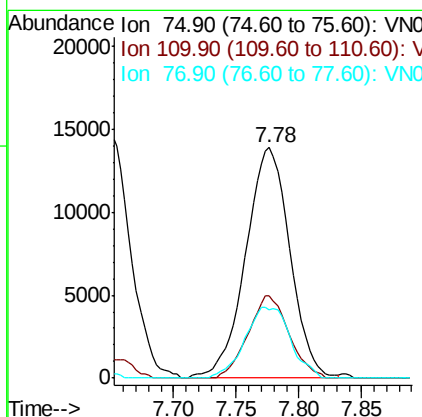
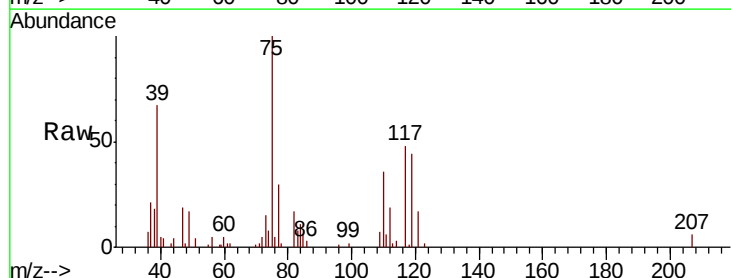
Manual Integrations
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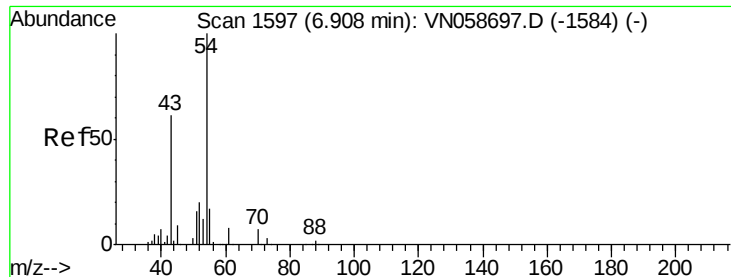
MMDadoda
10/16/2019 12:48:49 AM



#36
1,1-Dichloropropene
Concen: 4.886 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	34232		
110	32.8	16.6	49.8	
77	31.4	24.6	37.0	





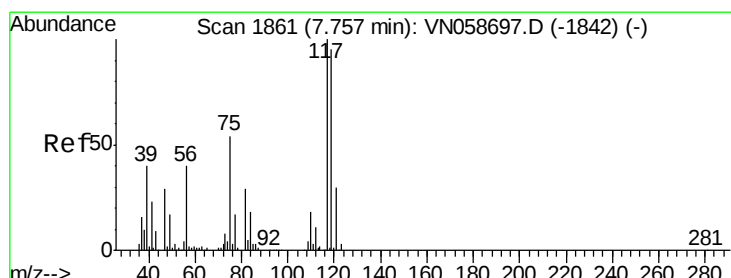
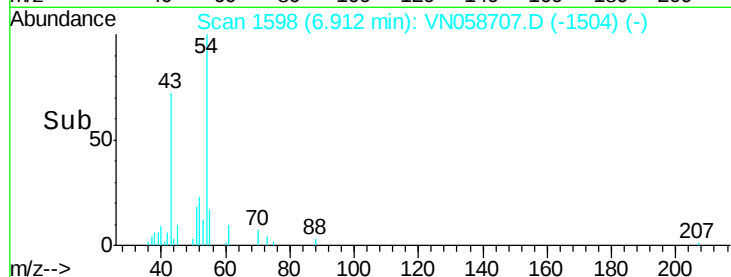
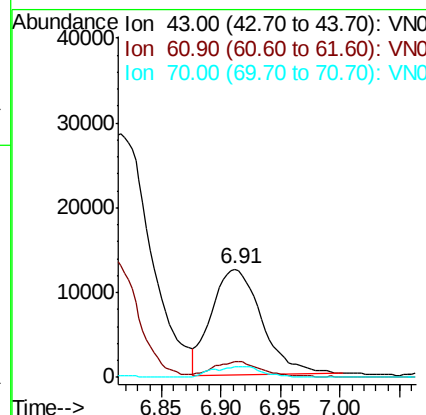
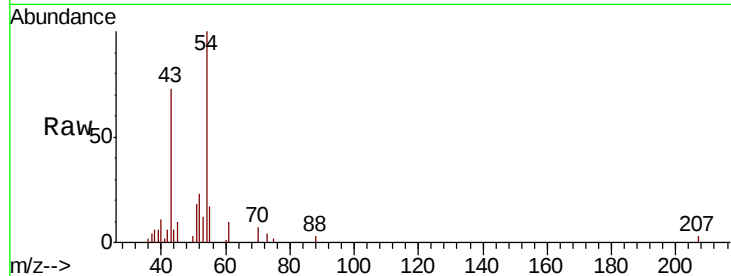
#37
Ethyl Acetate
Concen: 5.179 ug/l
RT: 6.91 min Scan# 1598
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.6	11.3	16.9
70	9.9	7.2	10.8

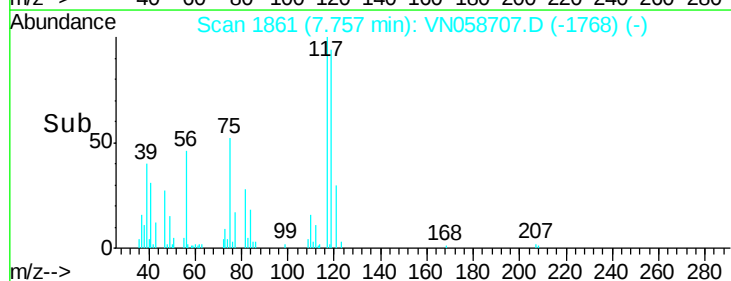
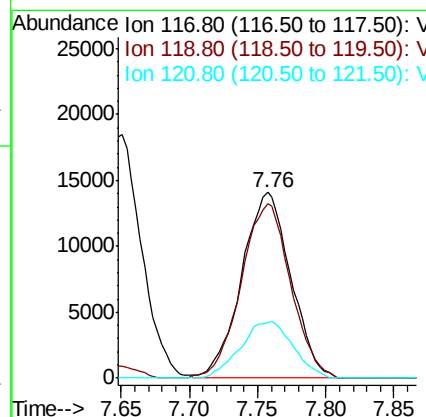
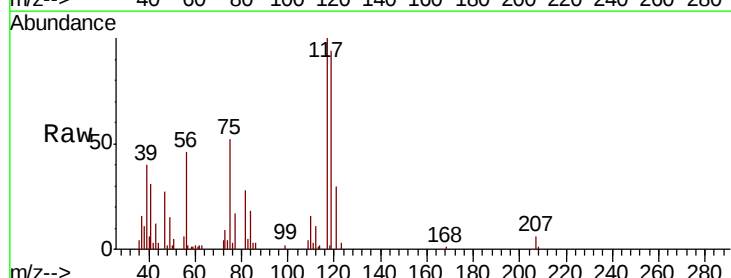
Manual Integrations
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10/16/2019 12:48:49 AM



#38
Carbon Tetrachloride
Concen: 5.152 ug/l
RT: 7.76 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.0	75.7	113.5
121	30.2	23.9	35.9





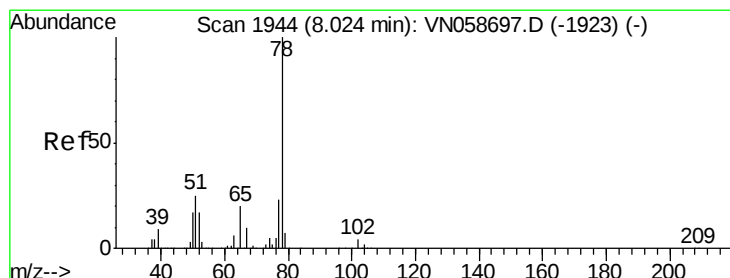
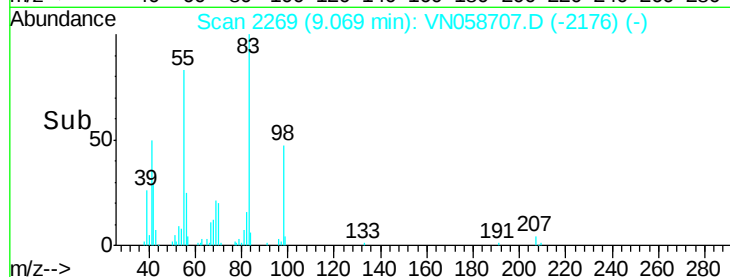
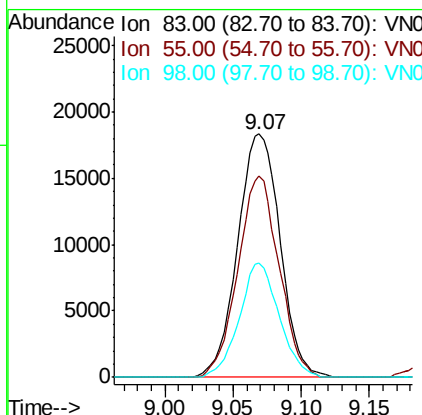
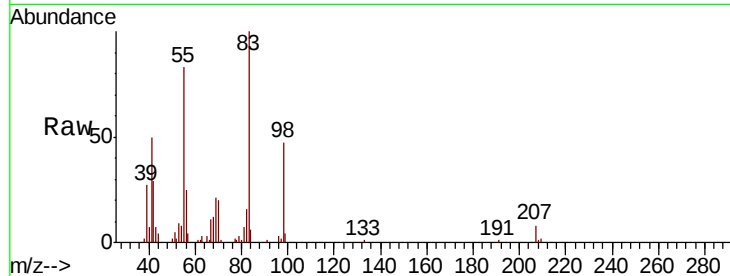
#39
Methvlcvclohexane
Concen: 4.879 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
83	100		
55	82.9	63.4	95.0
98	46.9	35.1	52.7

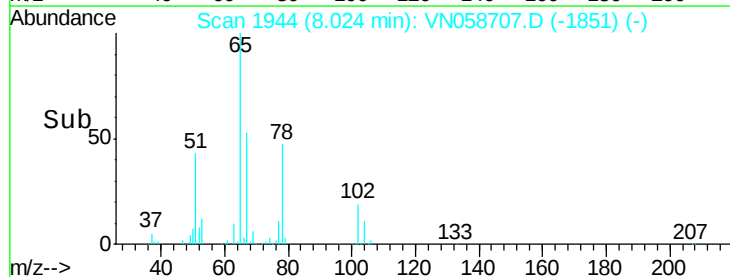
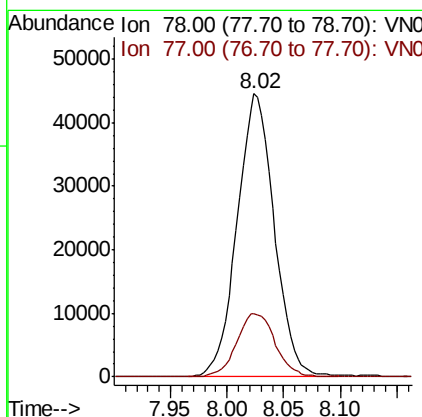
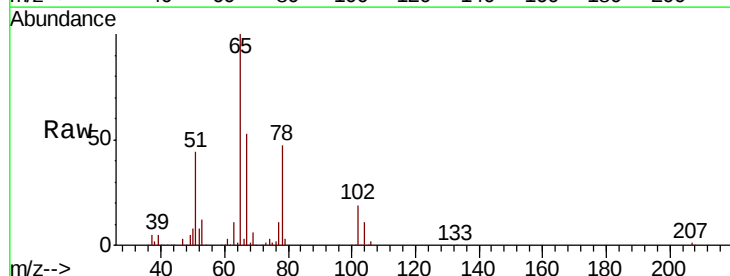
Manual Integrations
APPROVED

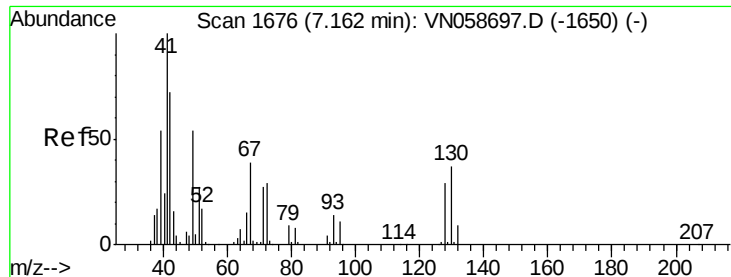
MMDadoda
10/16/2019 12:48:49 AM



#40
Benzene
Concen: 5.059 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.5	18.8	28.2





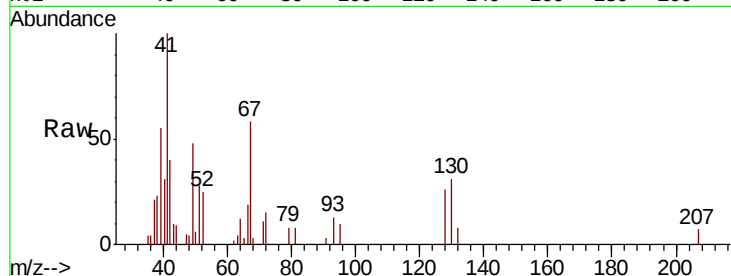
#41
Methacrylonitrile
Concen: 4.223 ug/l m
RT: 7.16 min Scan# 1675
Delta R.T. -0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
41	100		
39	206.0	115.4	173.2#
67	0.0	0.0	0.0
52	0.0	0.0	0.0

Manual Integrations
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MMDadoda
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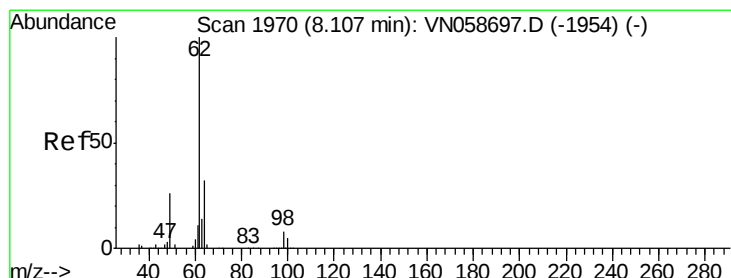
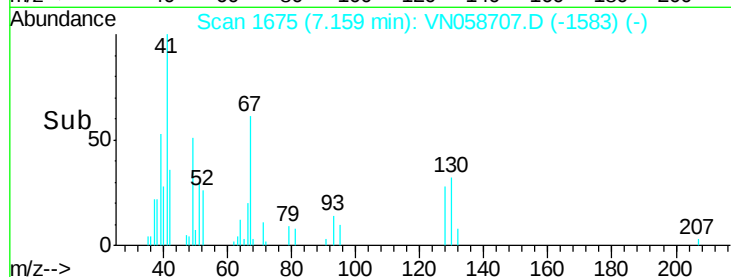
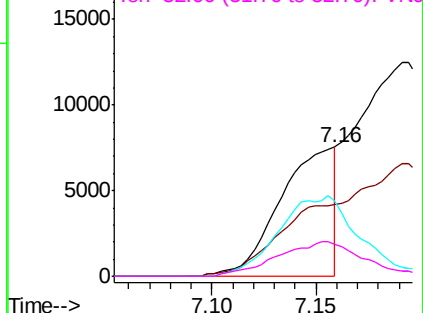
Abundance

Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

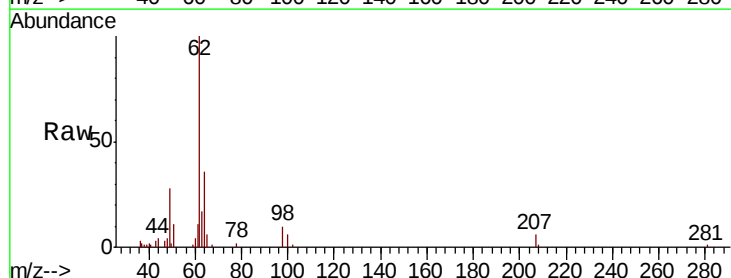
Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO



#42
1,2-Dichloroethane
Concen: 5.134 ug/l
RT: 8.11 min Scan# 1970
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

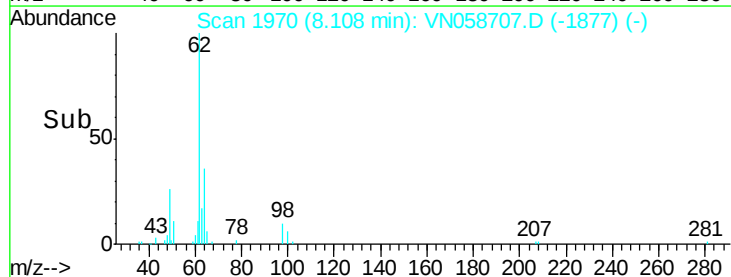
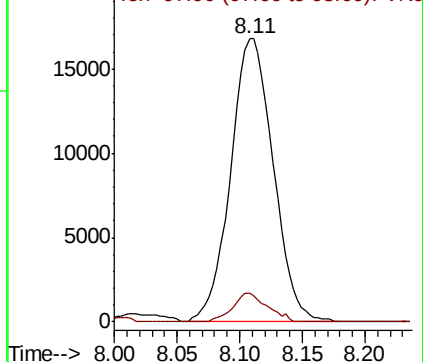
Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.2	0.0	15.8

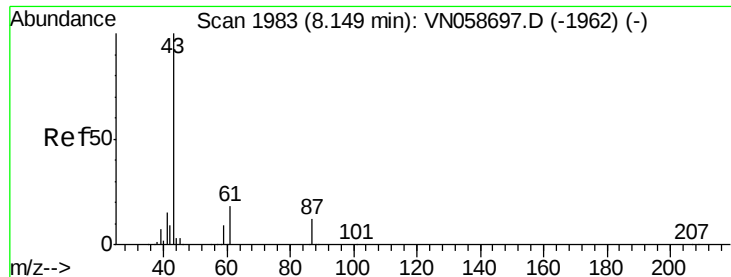


Abundance

Ion 61.90 (61.60 to 62.60): VNO

Ion 97.90 (97.60 to 98.60): VNO





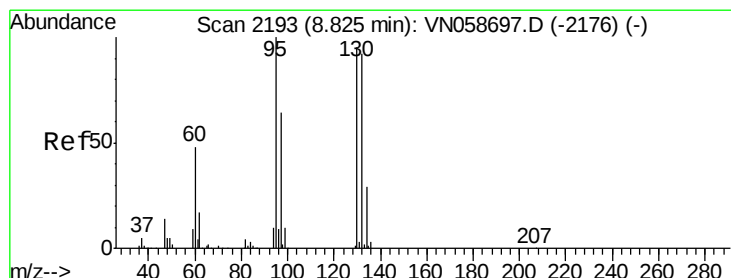
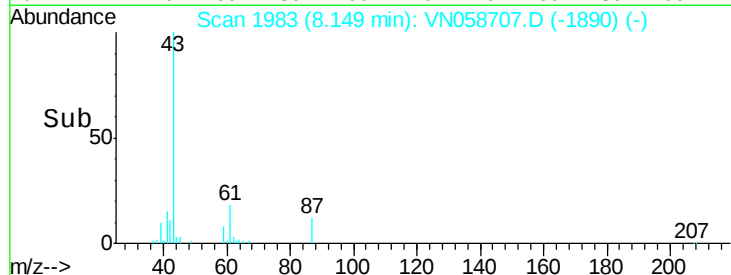
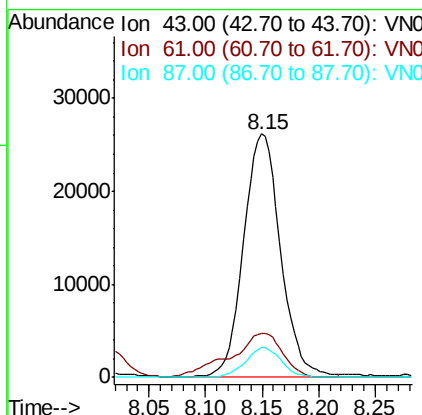
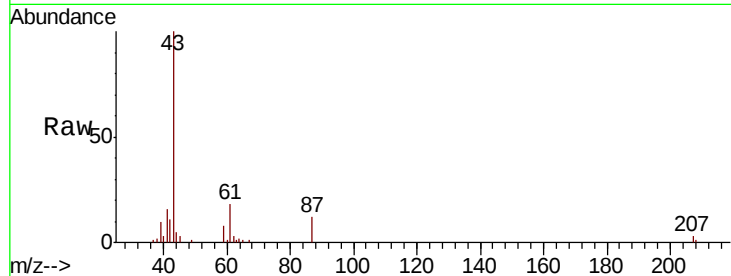
#43
Isopropyl Acetate
Concen: 4.948 ug/l
RT: 8.15 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	25.4	20.3	30.5
87	11.8	9.8	14.6

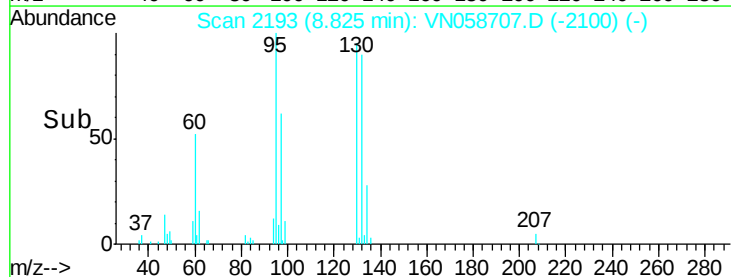
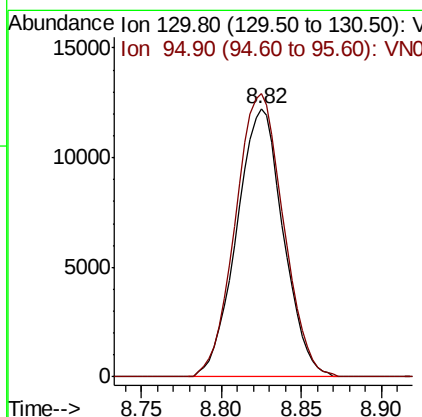
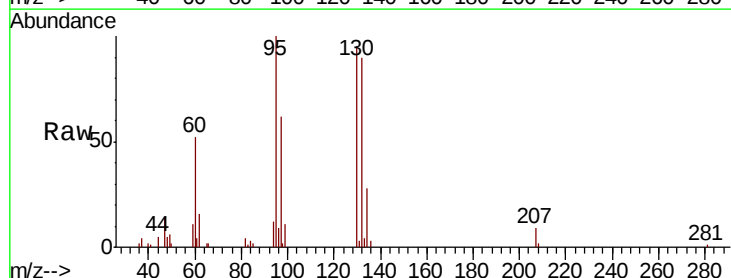
Manual Integrations
APPROVED

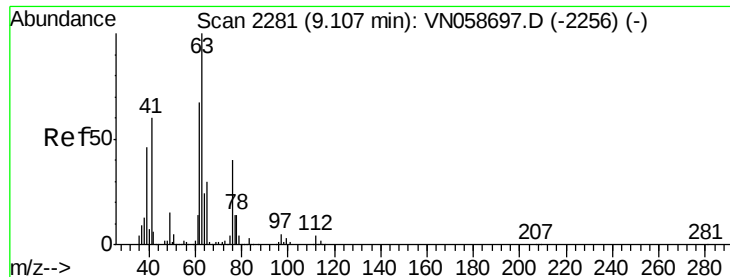
MMDadoda
10/16/2019 12:48:49 AM



#44
Trichloroethene
Concen: 4.876 ug/l
RT: 8.82 min Scan# 2193
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Tgt Ion	Ratio	Lower	Upper
130	100		
95	105.4	0.0	211.2





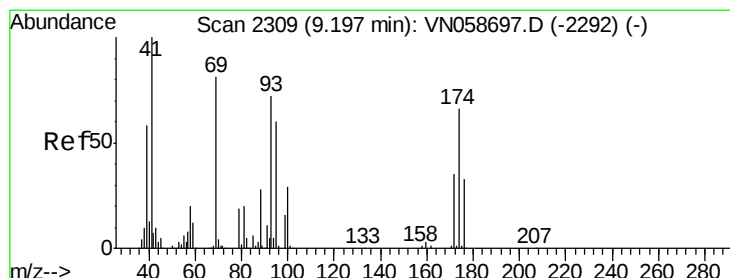
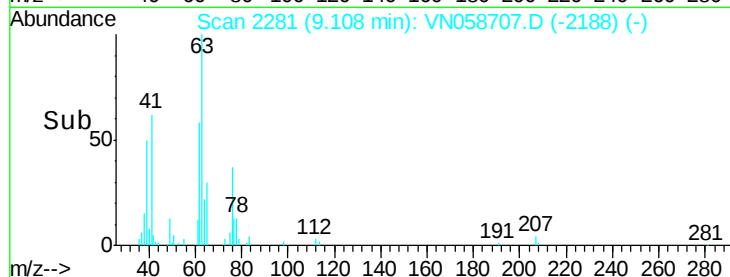
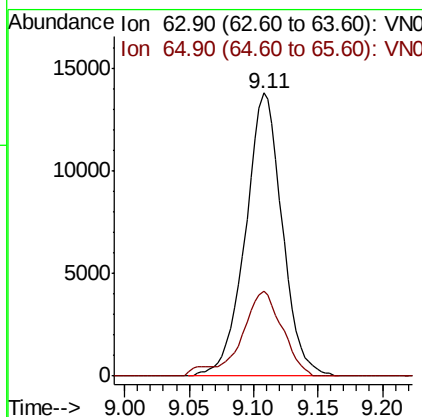
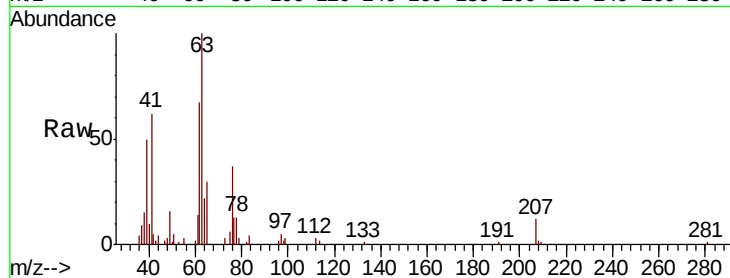
#45
 1,2-Dichloropropane
 Concen: 5.110 ug/l
 RT: 9.11 min Scan# 2281
 Delta R.T. 0.00 min
 Lab File: VN058707.D
 Acq: 11 Oct 2019 16:42

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.1	24.1	36.1

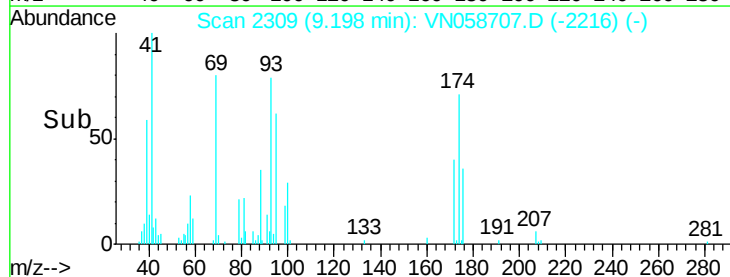
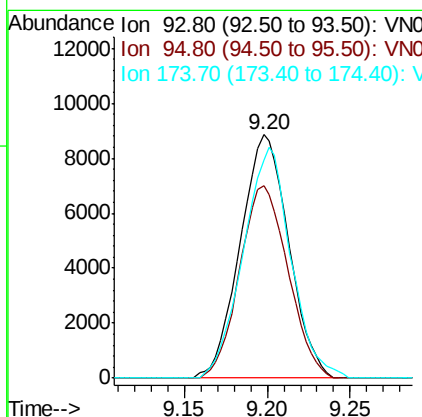
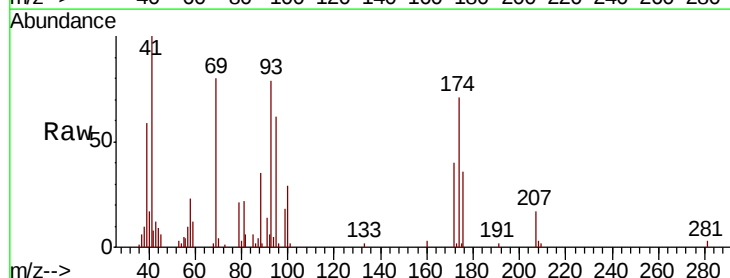
Manual Integrations
 APPROVED

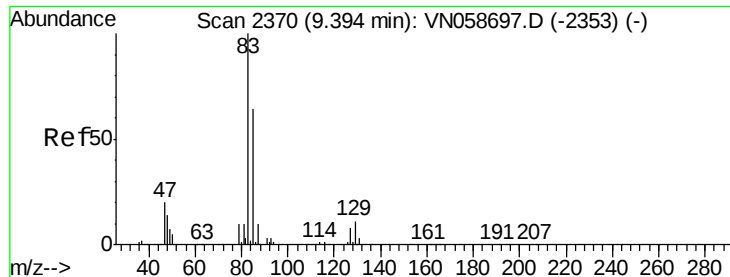
MMDadoda
 10/16/2019 12:48:49 AM



#46
 Dibromomethane
 Concen: 5.272 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. 0.00 min
 Lab File: VN058707.D
 Acq: 11 Oct 2019 16:42

Tgt Ion	Ratio	Lower	Upper
93	100		
95	79.0	66.6	100.0
174	93.4	75.2	112.8





#47

Bromodichloromethane

Concen: 5.182 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

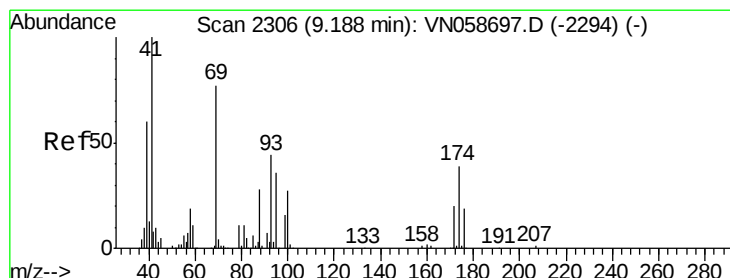
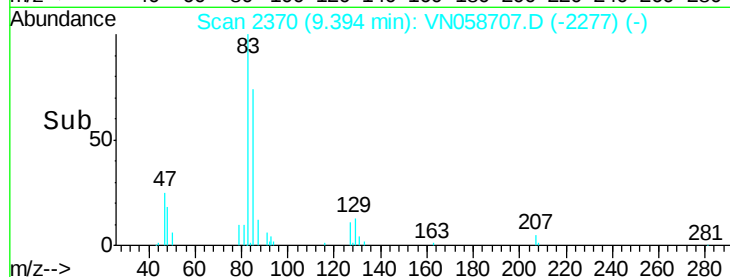
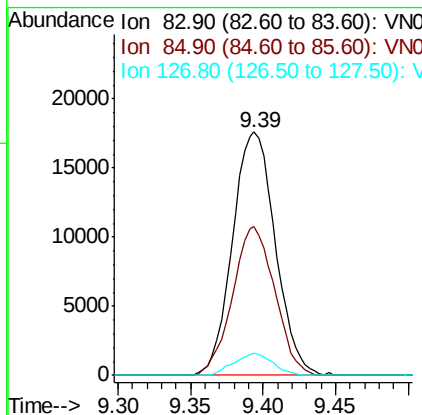
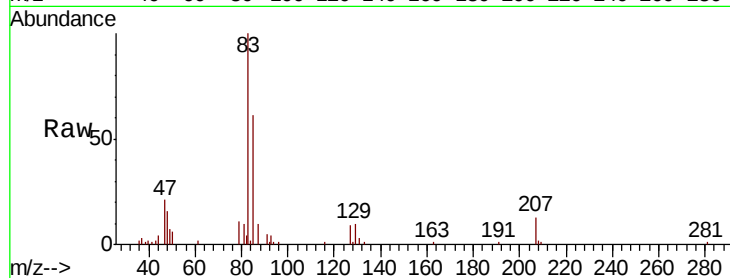
ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

Tot Ion:	83	Resp:	36035
Ion Ratio	Lower	Upper	
83	100		
85	61.0	50.9	76.3
127	9.1	6.3	9.5

Manual Integrations
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MMDadoda
10/16/2019 12:48:49 AM



#48

Methyl methacrylate

Concen: 4.888 ug/l

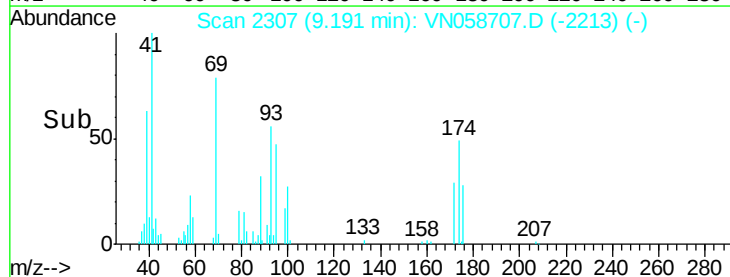
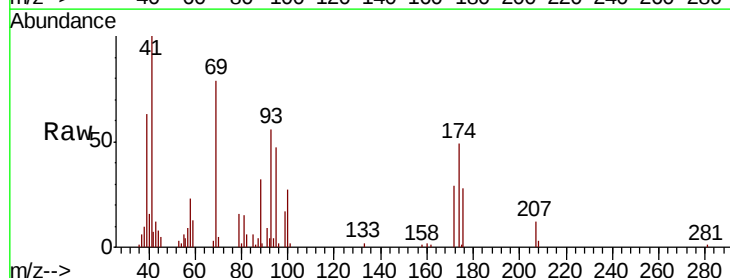
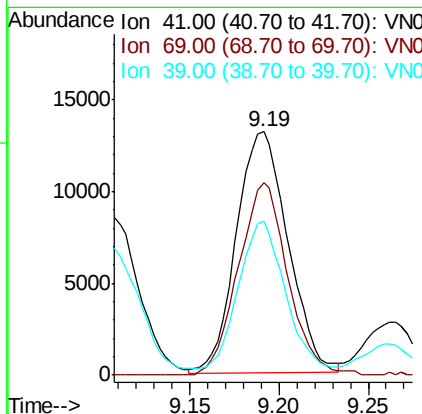
RT: 9.19 min Scan# 2307

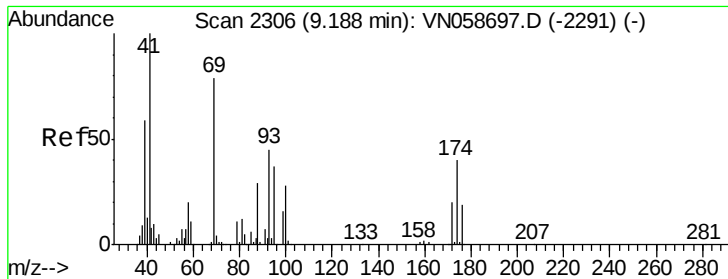
Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Tgt Ion:	41	Resp:	26740
Ion Ratio	Lower	Upper	
41	100		
69	75.8	63.4	95.2
39	60.2	48.9	73.3





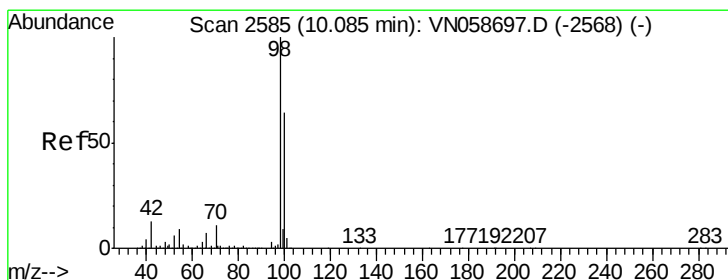
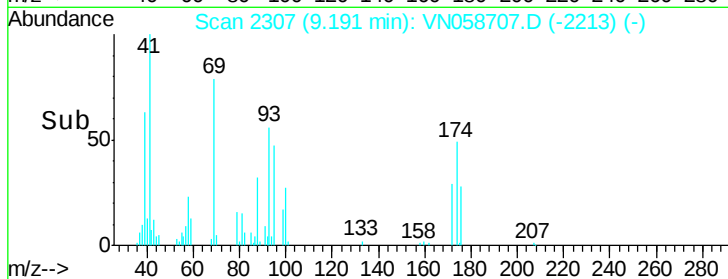
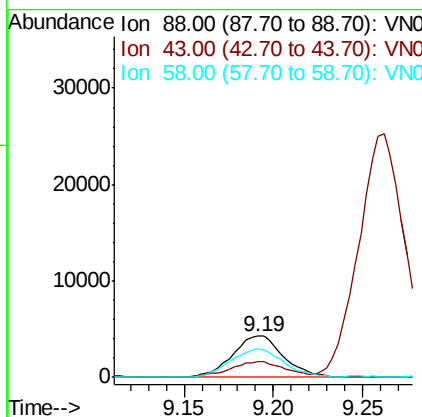
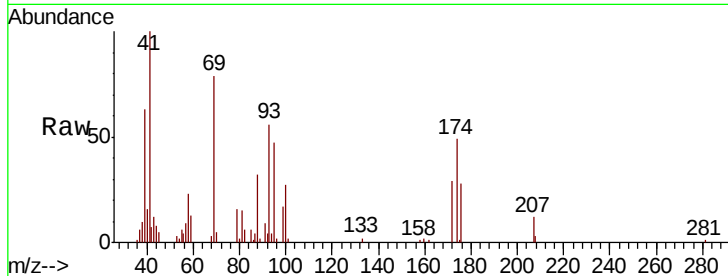
#49
1,4-Dioxane
Concen: 100.687 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
88	100		
43	41.7	28.6	43.0
58	72.4	57.2	85.8

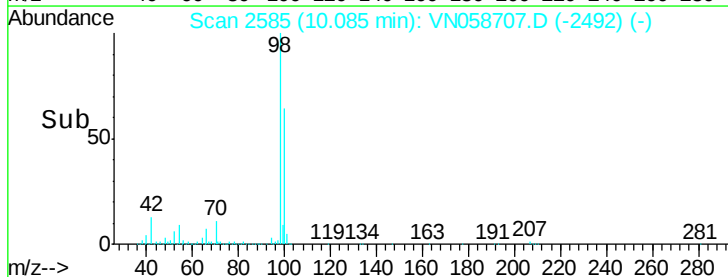
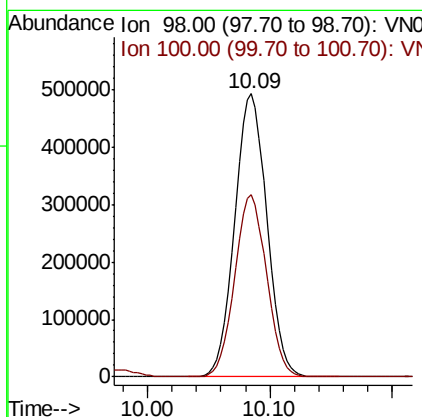
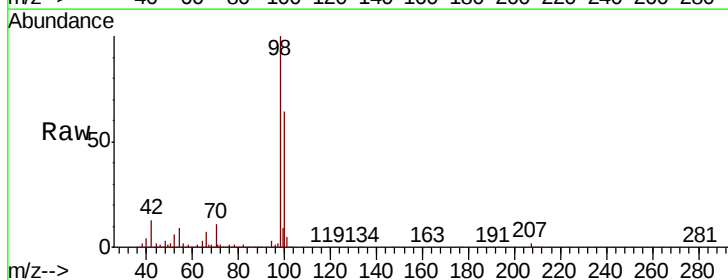
Manual Integrations
APPROVED

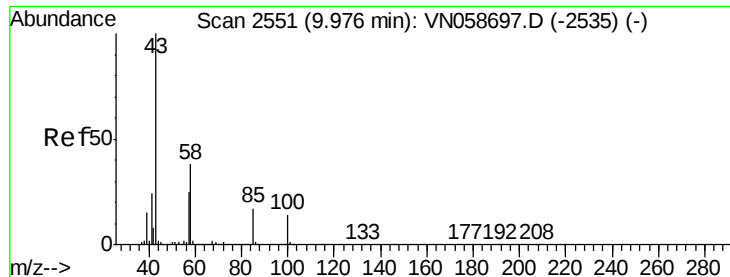
MMDadoda
10/16/2019 12:48:49 AM



#50
Toluene-d8
Concen: 52.471 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.7	51.1	76.7





#51

4-Methyl-2-Pentanone

Concen: 25.399 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

Tot Ion: 43 Resp: 172160

Ion Ratio Lower Upper

43 100

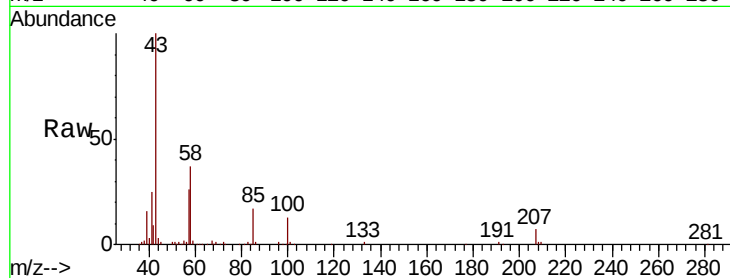
58 37.1 30.3 45.5

Manual Integrations

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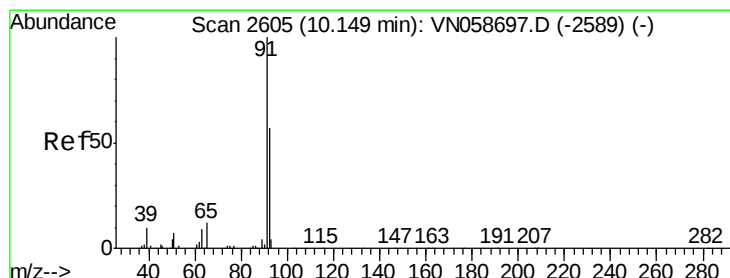
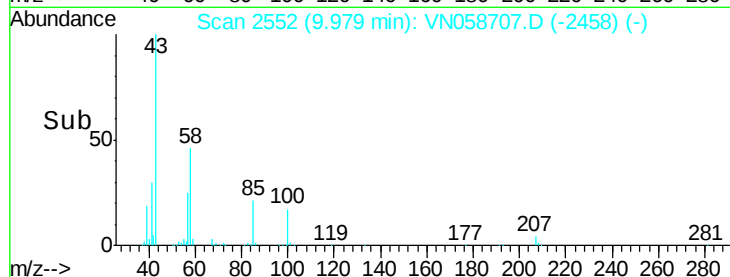
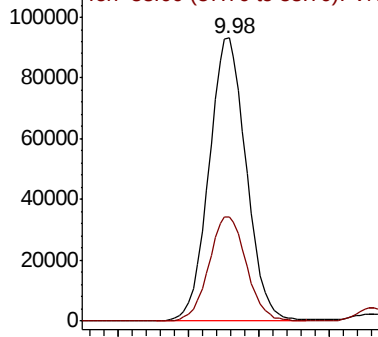
MMDadoda

10/16/2019 12:48:49 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 4.998 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VN058707.D

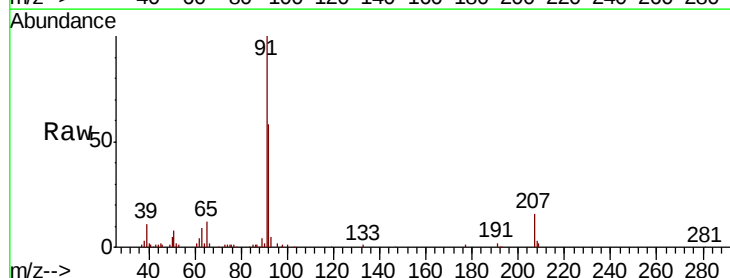
Acq: 11 Oct 2019 16:42

Tgt Ion: 92 Resp: 61503

Ion Ratio Lower Upper

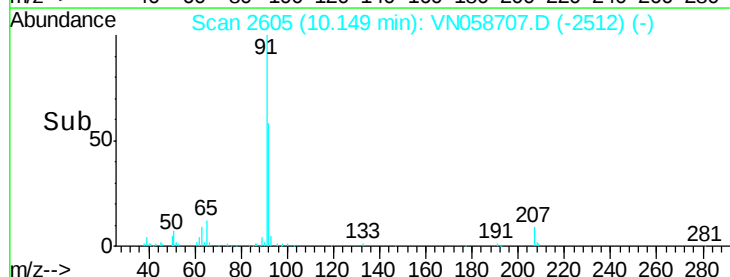
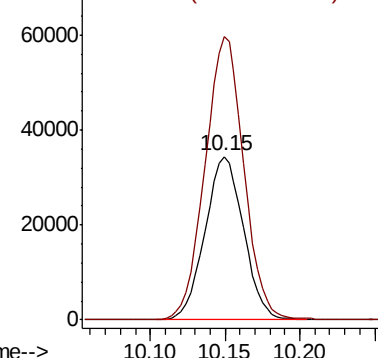
92 100

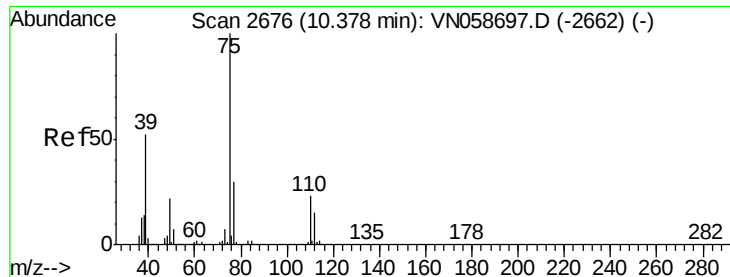
91 174.6 139.1 208.7



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





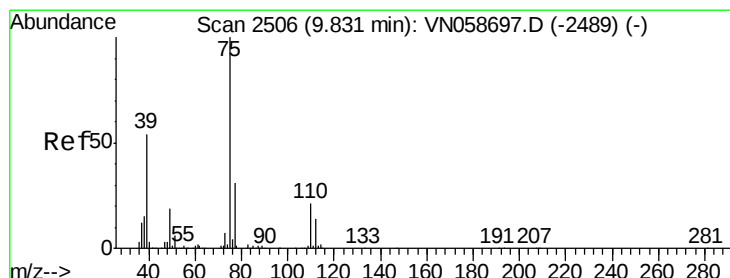
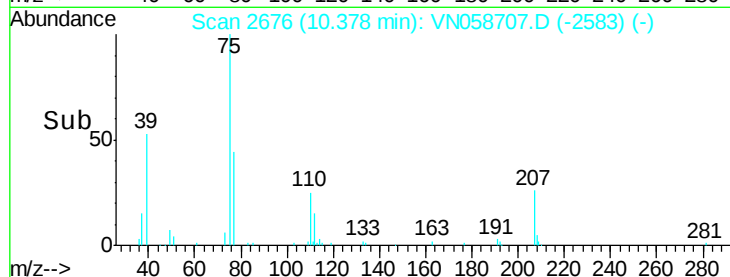
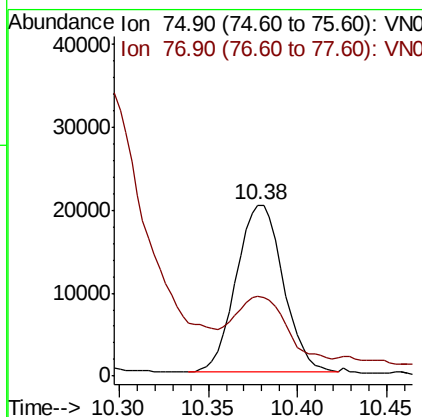
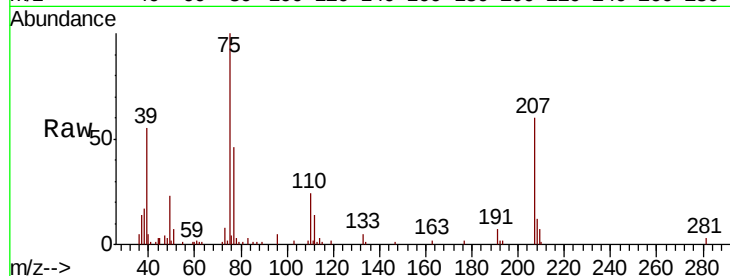
#53
t-1,3-Dichloropropene
Concen: 4.653 ug/l
RT: 10.38 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion: 75 Resp: 37108
Ion Ratio Lower Upper
75 100
77 36.7 26.2 39.4

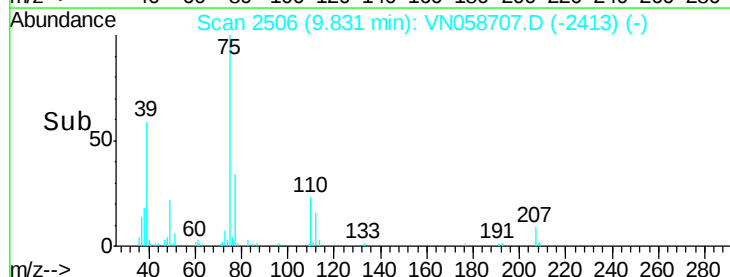
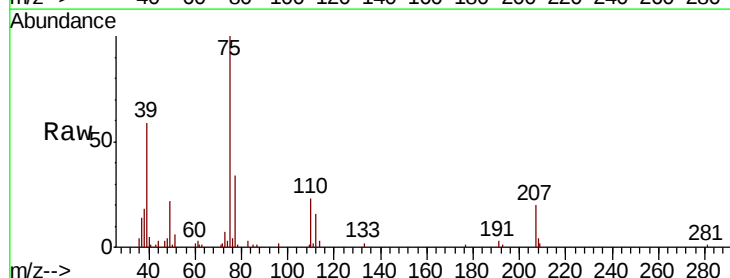
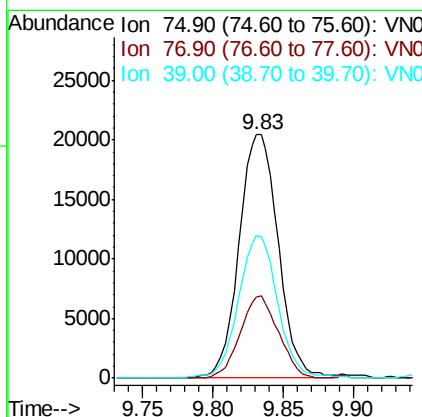
Manual Integrations
APPROVED

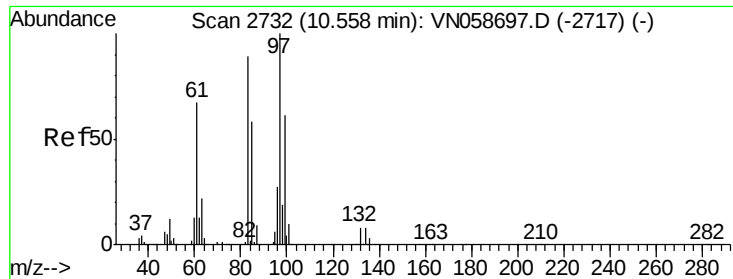
MMDadoda
10/16/2019 12:48:49 AM



#54
cis-1,3-Dichloropropene
Concen: 4.706 ug/l
RT: 9.83 min Scan# 2506
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Tgt Ion: 75 Resp: 39846
Ion Ratio Lower Upper
75 100
77 33.6 24.4 36.6
39 57.9 43.1 64.7





#55

1,1,2-Trichloroethane

Concen: 5.146 ug/l

RT: 10.56 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

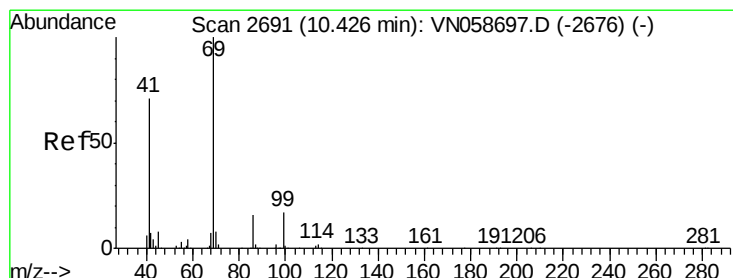
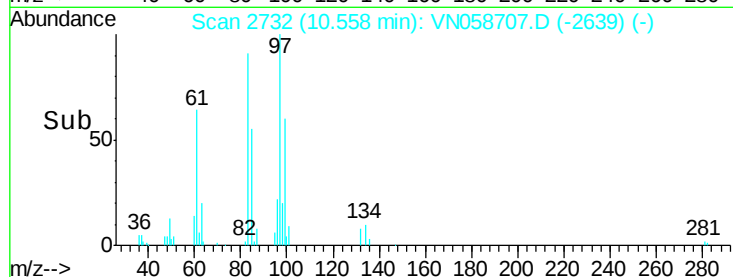
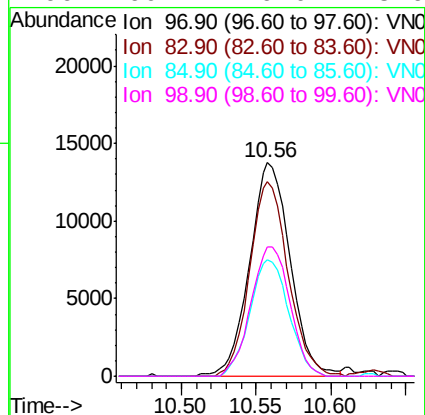
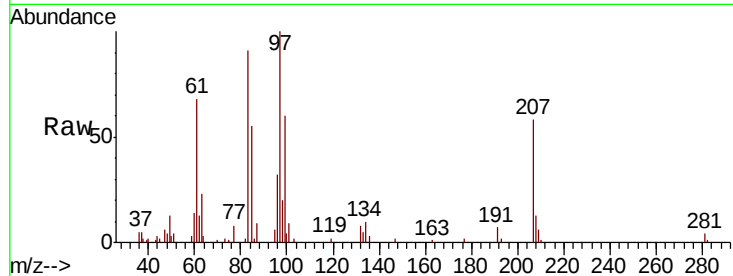
ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

Tot Ion:	97	Resp:	25920
Ion	Ratio	Lower	Upper
97	100		
83	91.2	71.2	106.8
85	54.7	46.7	70.1
99	60.4	49.0	73.6

Manual Integrations
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#56

Ethyl methacrylate

Concen: 4.766 ug/l

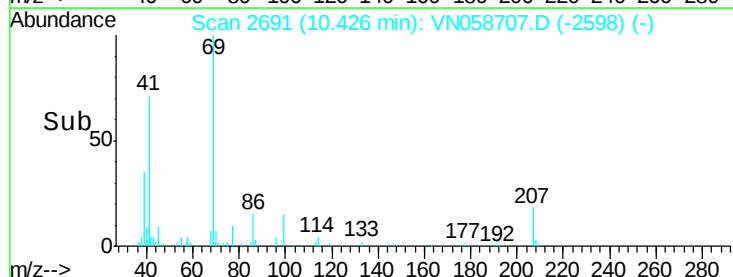
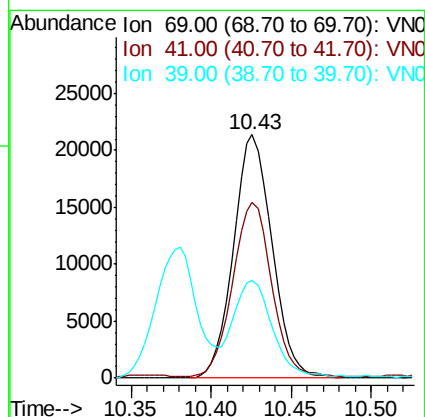
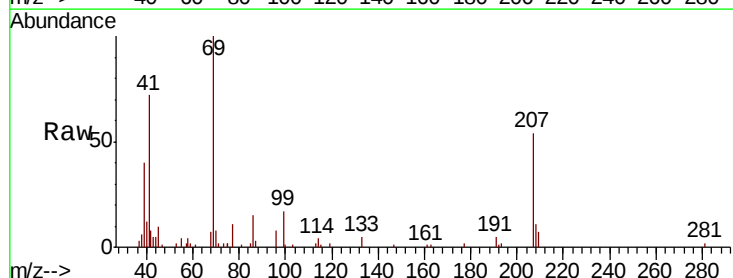
RT: 10.43 min Scan# 2691

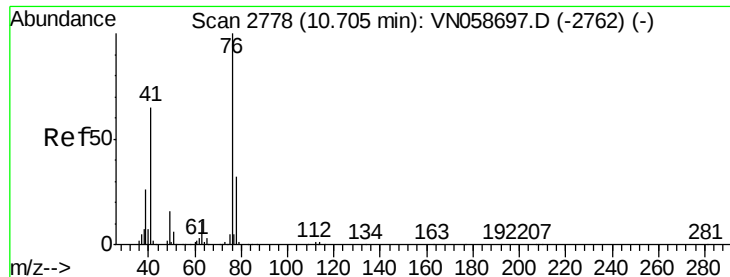
Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Tgt Ion:	69	Resp:	35069
Ion	Ratio	Lower	Upper
69	100		
41	71.5	56.8	85.2
39	40.2	32.5	48.7





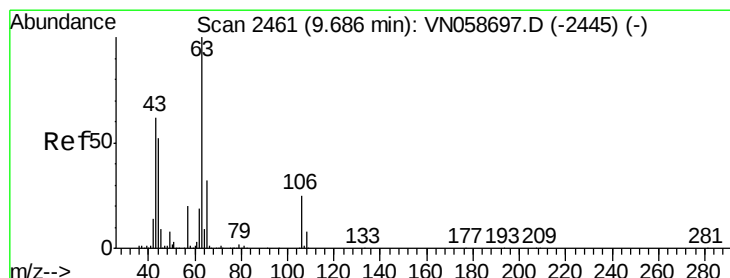
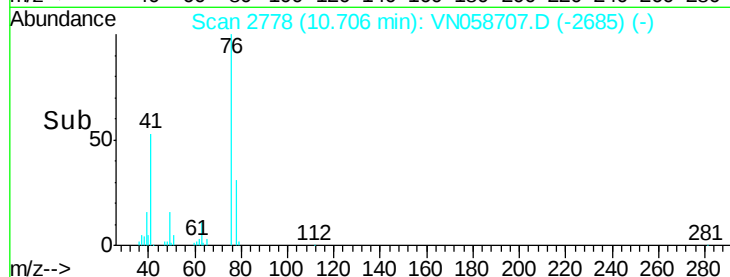
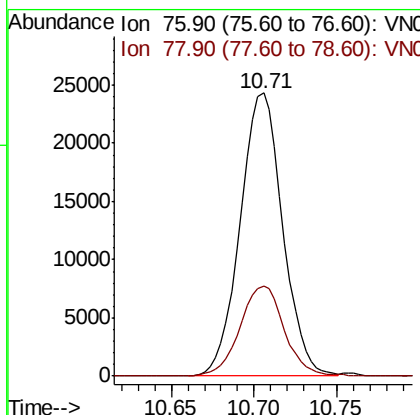
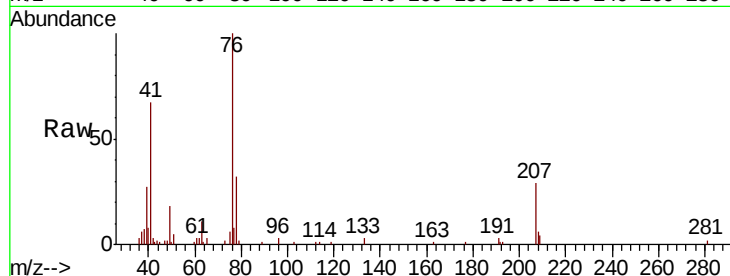
#57
 1,3-Dichloropropane
 Concen: 5.047 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. 0.00 min
 Lab File: VN058707.D
 Acq: 11 Oct 2019 16:42

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019

Tot Ion: 76 Resp: 43313
 Ion Ratio Lower Upper
 76 100
 78 33.2 25.9 38.9

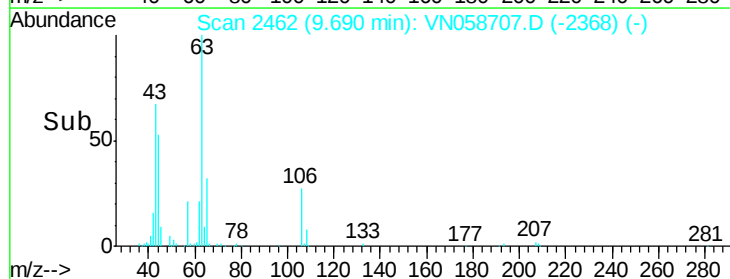
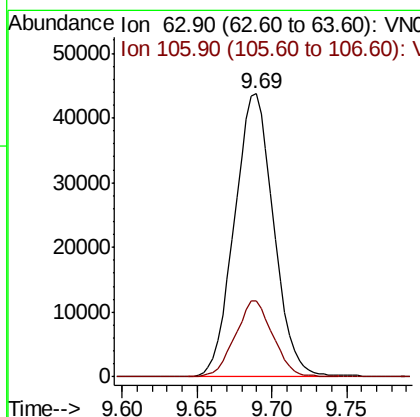
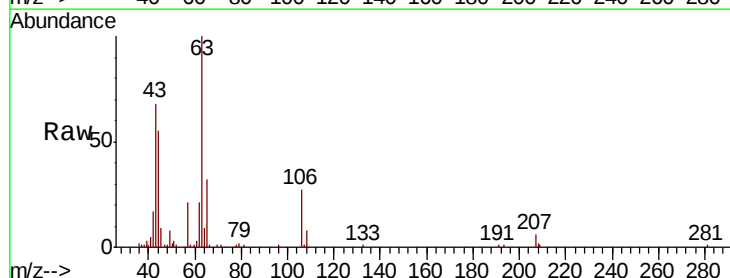
Manual Integrations
 APPROVED

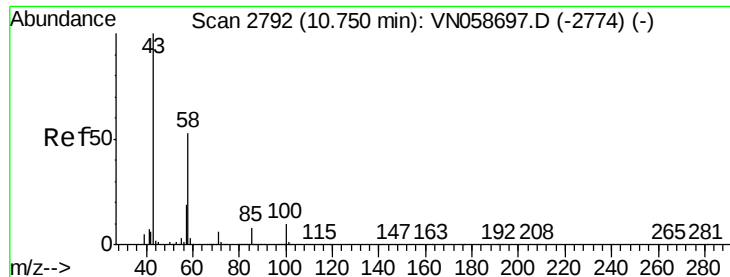
MMDadoda
 10/16/2019 12:48:49 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 22.539 ug/l
 RT: 9.69 min Scan# 2462
 Delta R.T. 0.00 min
 Lab File: VN058707.D
 Acq: 11 Oct 2019 16:42

Tgt Ion: 63 Resp: 79925
 Ion Ratio Lower Upper
 63 100
 106 25.8 20.0 30.0





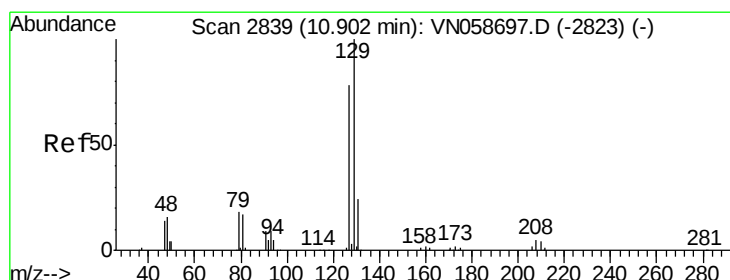
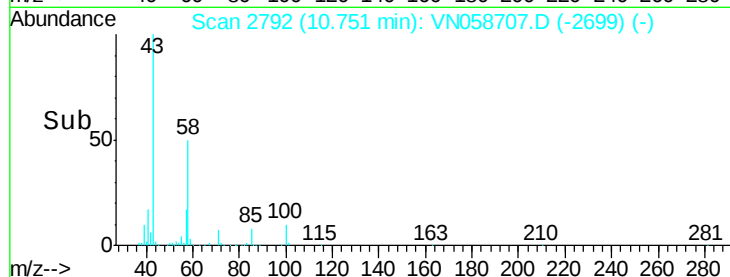
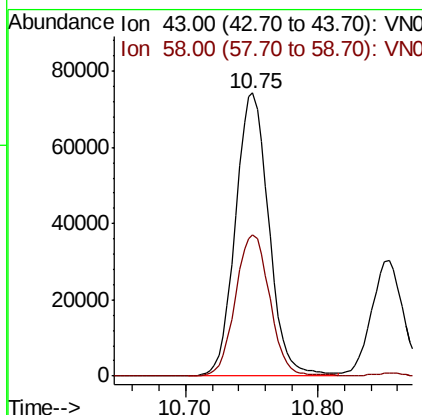
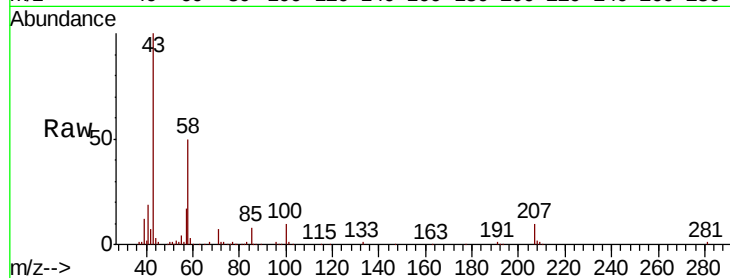
#59
2-Hexanone
Concen: 24.852 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion: 43 Resp: 130180
Ion Ratio Lower Upper
43 100
58 51.3 26.1 78.3

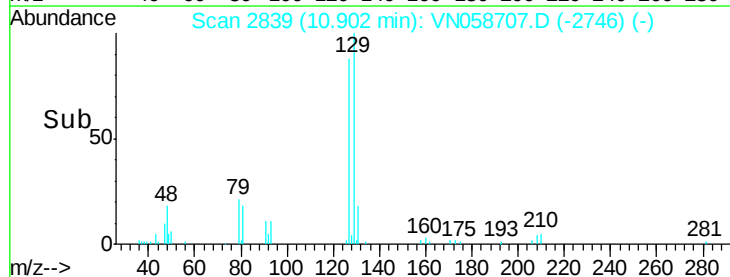
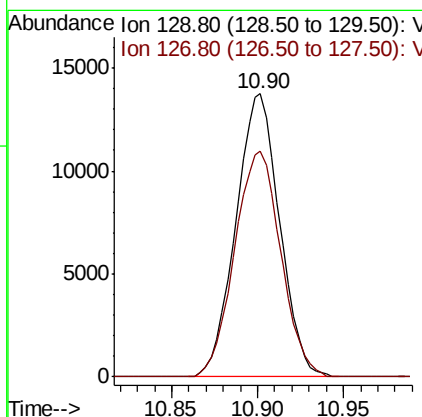
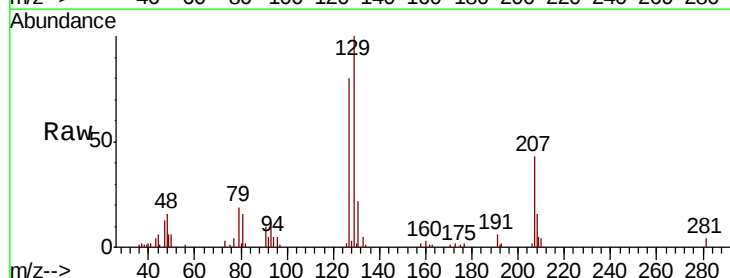
Manual Integrations
APPROVED

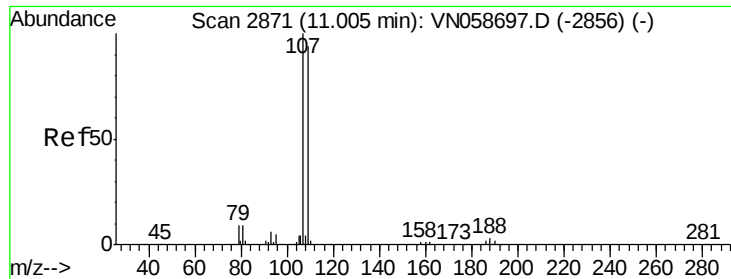
MMDadoda
10/16/2019 12:48:49 AM



#60
Dibromochloromethane
Concen: 4.682 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Tgt Ion: 129 Resp: 24326
Ion Ratio Lower Upper
129 100
127 84.1 38.5 115.3





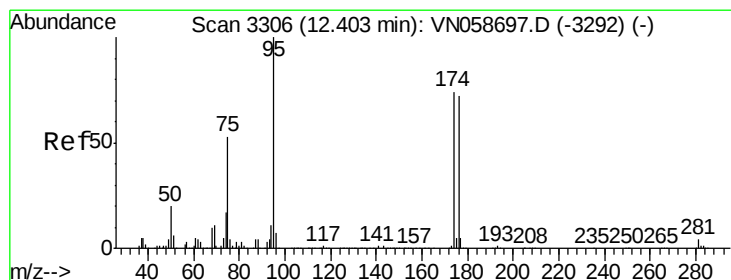
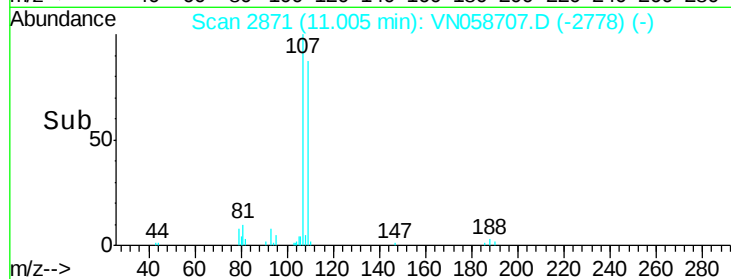
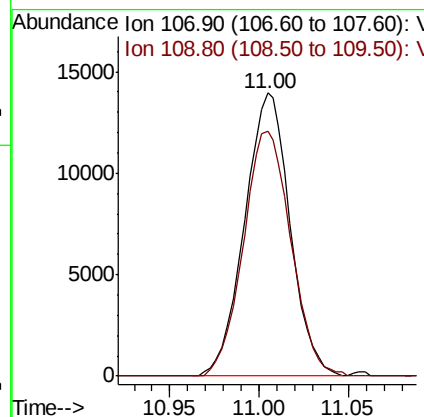
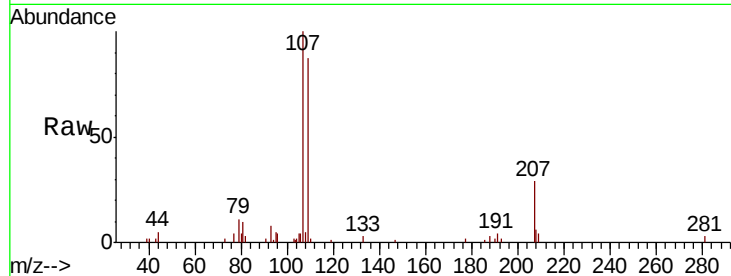
#61
 1,2-Dibromoethane
 Concen: 4.921 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN058707.D
 Acq: 11 Oct 2019 16:42

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
107	100		
109	90.6	75.4	113.0

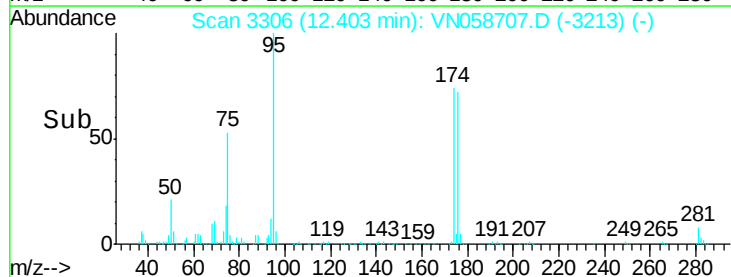
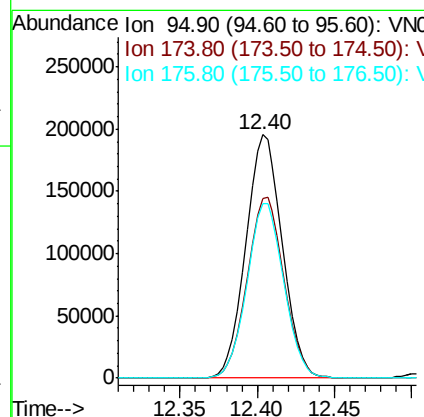
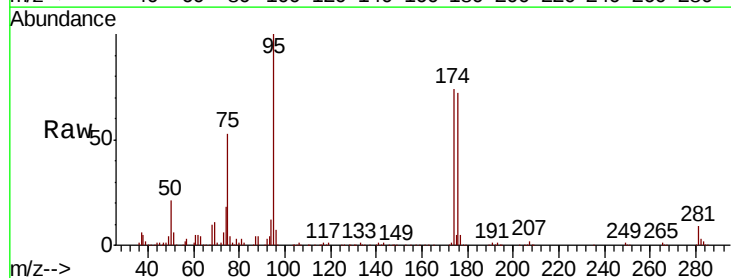
Manual Integrations
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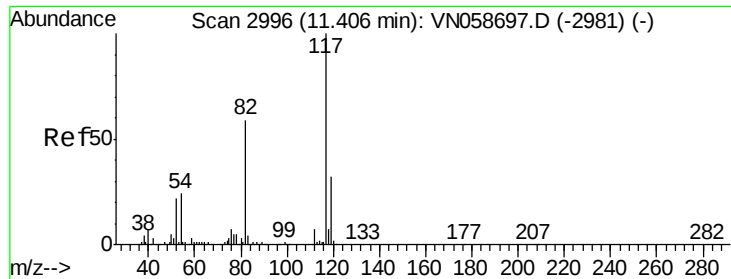
MMDadoda
 10/16/2019 12:48:49 AM



#62
 4-Bromofluorobenzene
 Concen: 49.463 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN058707.D
 Acq: 11 Oct 2019 16:42

Tgt Ion	Ratio	Lower	Upper
95	100		
174	75.3	0.0	150.4
176	72.6	0.0	146.8





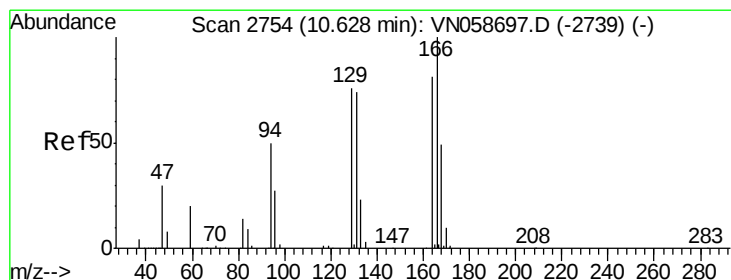
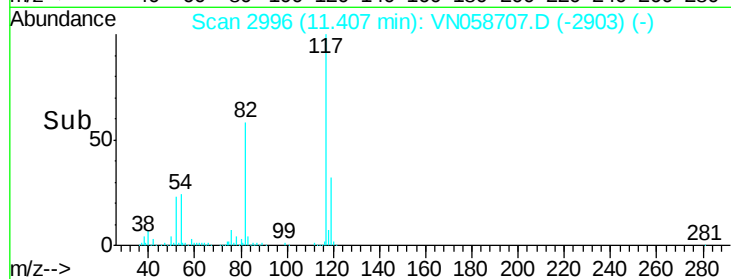
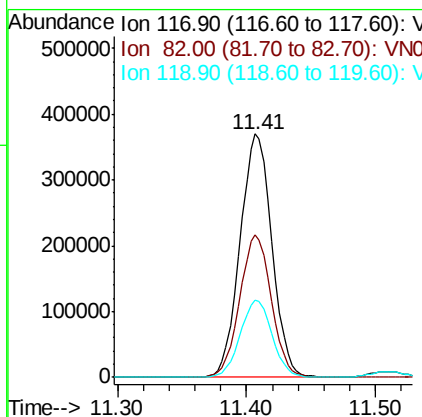
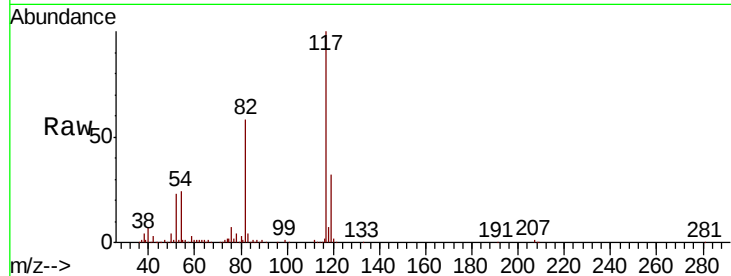
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
117	100	634485		
82	58.5		47.0	70.4
119	31.7		25.4	38.2

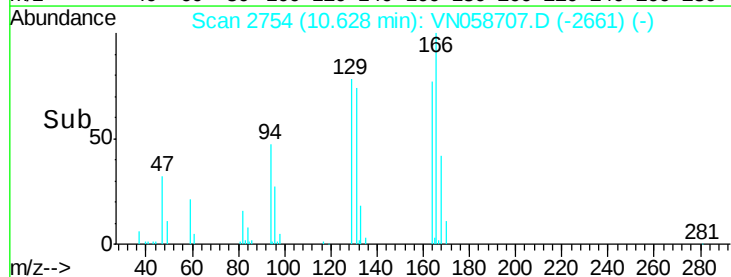
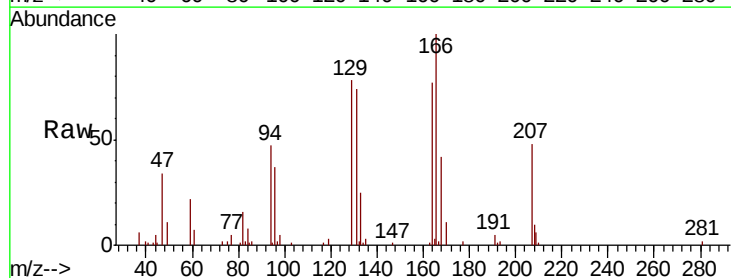
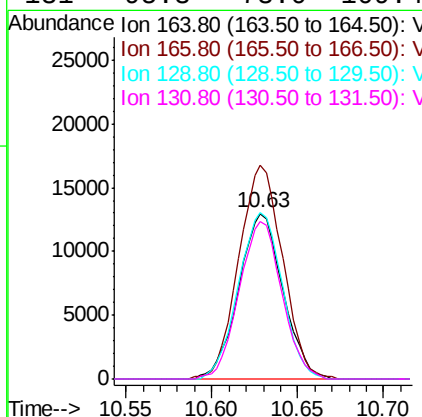
Manual Integrations
APPROVED

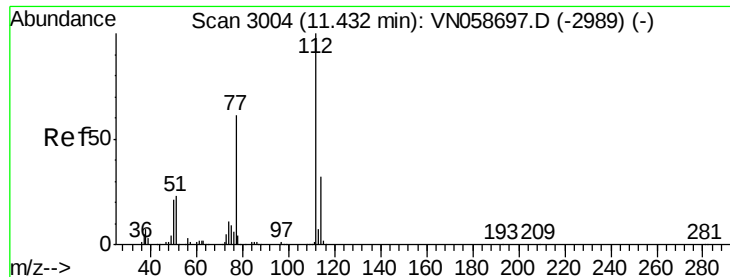
MMDadoda
10/16/2019 12:48:49 AM



#64
Tetrachloroethene
Concen: 5.208 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	23127		
166	129.1		99.3	148.9
129	100.6		75.2	112.8
131	95.3		73.0	109.4





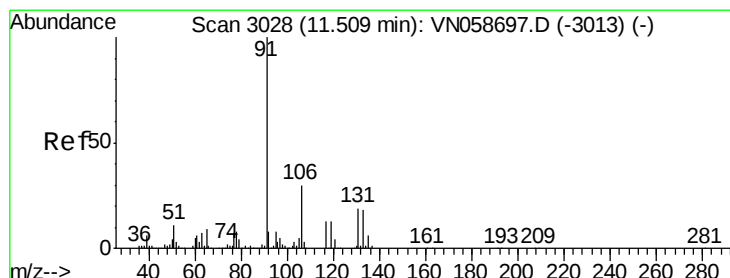
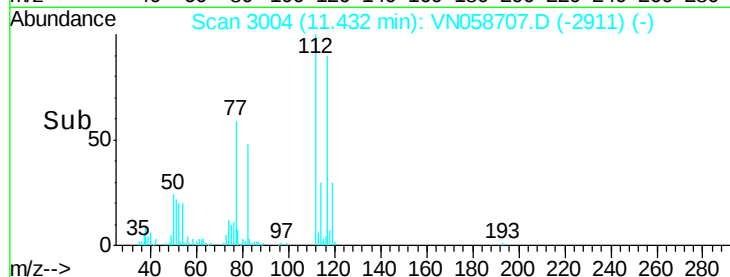
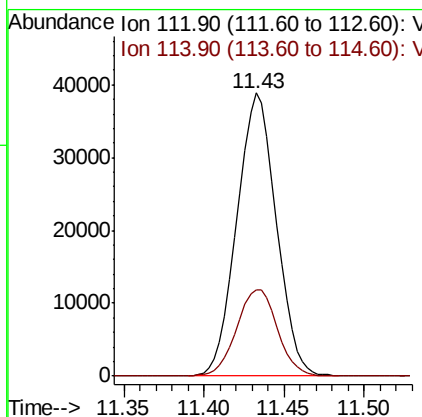
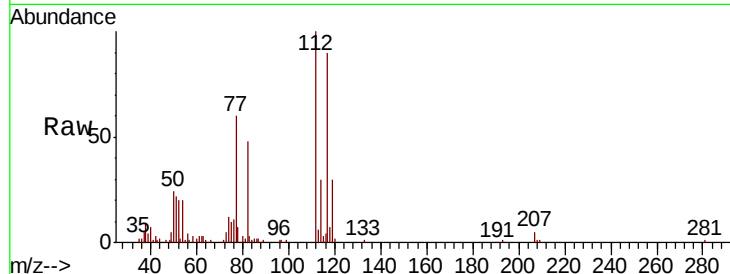
#65
Chlorobenzene
Concen: 5.067 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion:112 Resp: 65295
Ion Ratio Lower Upper
112 100
114 30.5 25.2 37.8

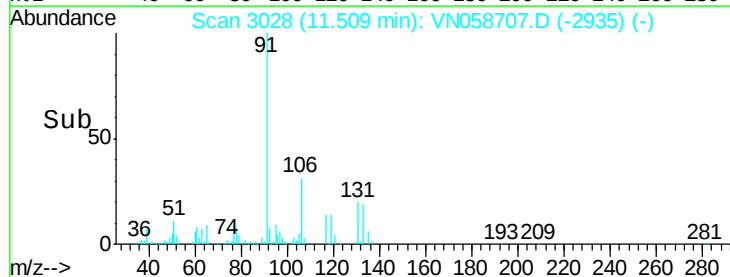
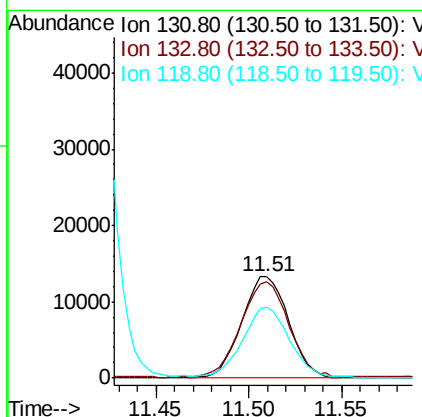
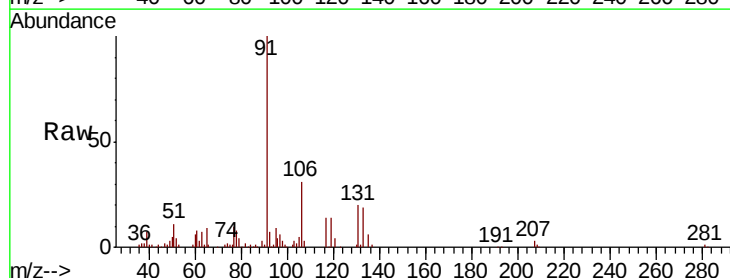
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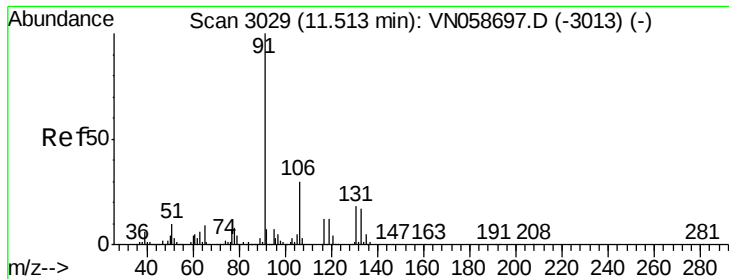
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 4.915 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Tgt Ion:131 Resp: 23420
Ion Ratio Lower Upper
131 100
133 99.5 47.6 142.9
119 71.2 33.0 98.9





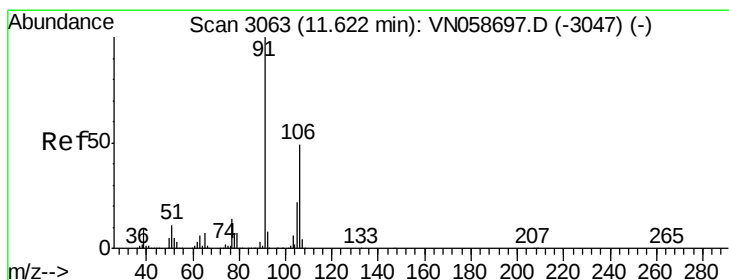
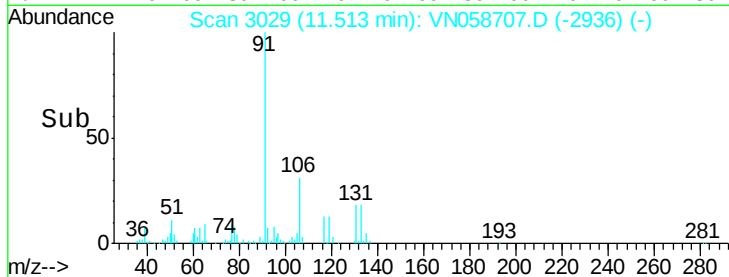
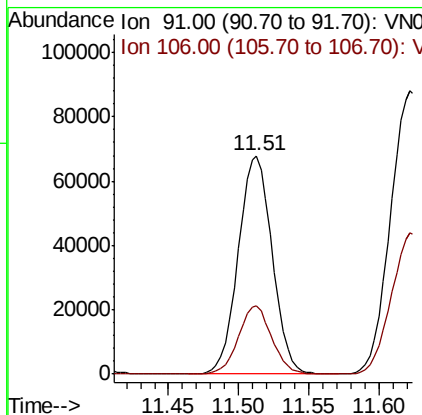
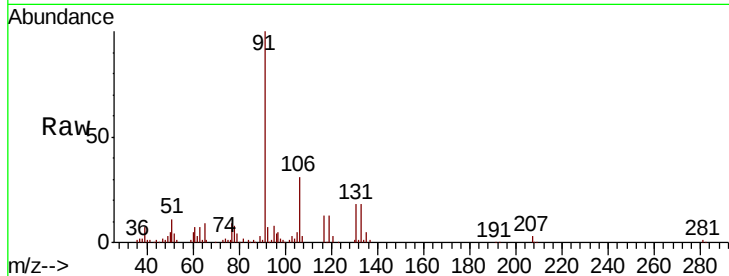
#67
Ethyl Benzene
Concen: 4.987 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion: 91 Resp: 114535
Ion Ratio Lower Upper
91 100
106 31.5 24.1 36.1

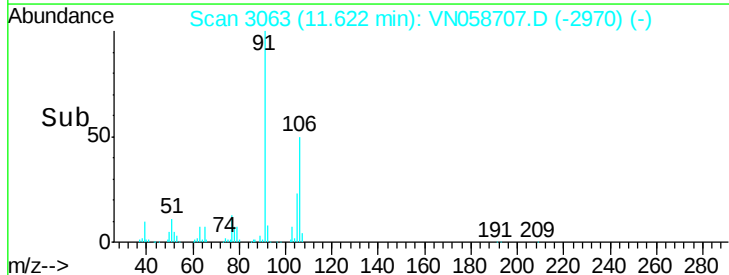
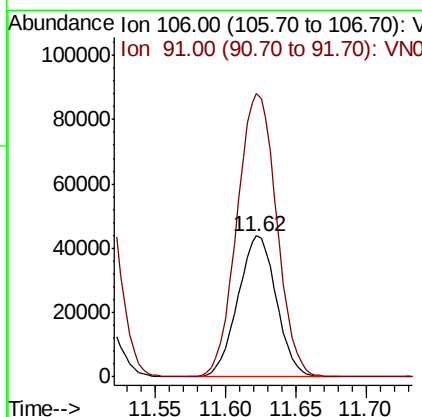
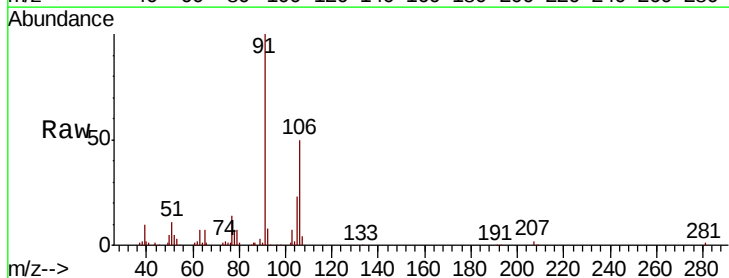
Manual Integrations
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#68
m/p-Xylenes
Concen: 9.711 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Tgt Ion: 106 Resp: 83704
Ion Ratio Lower Upper
106 100
91 207.0 165.7 248.5





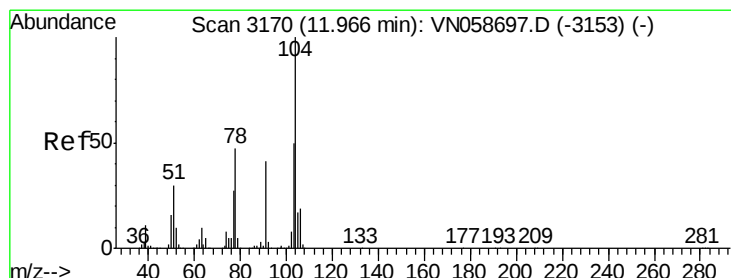
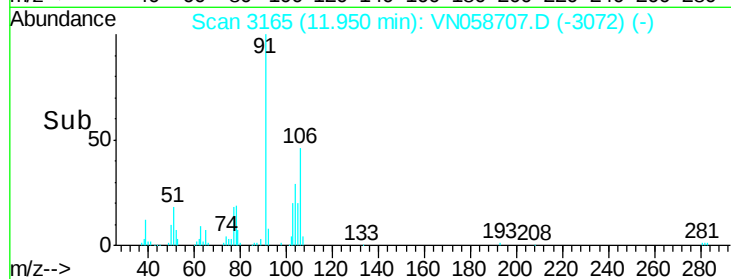
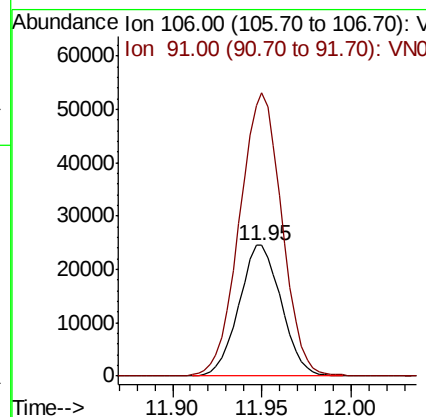
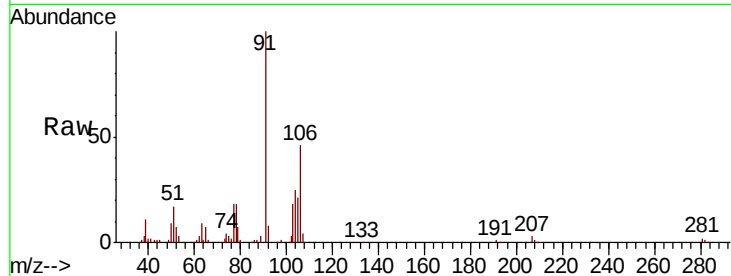
#69
o-Xylene
Concen: 4.851 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ion	Ratio	Lower	Upper
106	100			
91	217.1	110.9	332.9	

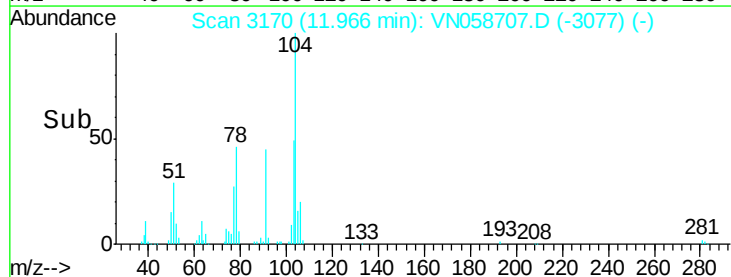
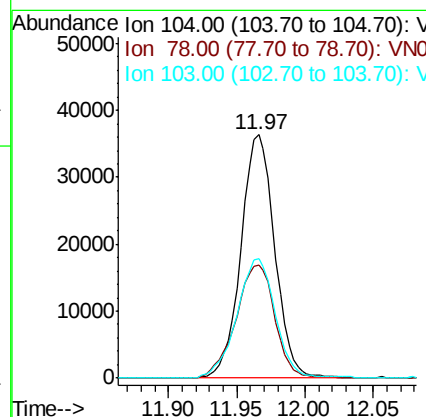
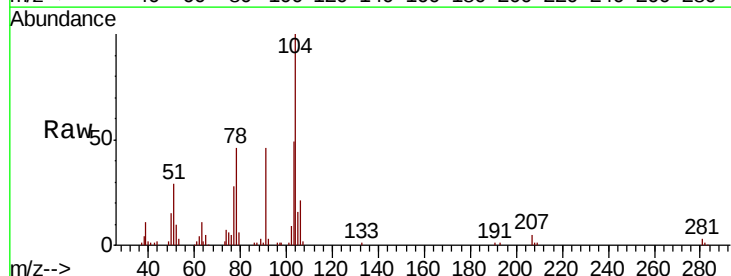
Manual Integrations
APPROVED

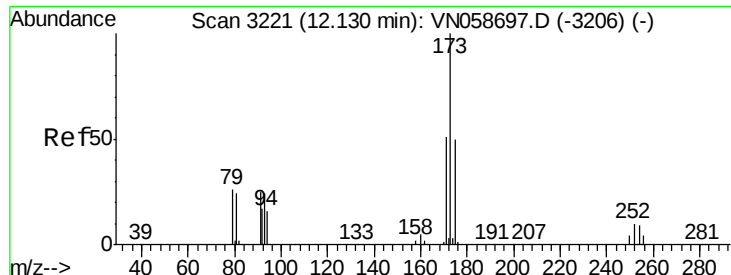
MMDadoda
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#70
Styrene
Concen: 4.580 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Tgt Ion	Ion	Ratio	Lower	Upper
104	100			
78	53.3	42.2	63.2	
103	55.6	43.7	65.5	





#71

Bromoform

Concen: 4.625 ug/l

RT: 12.13 min Scan# 3221

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

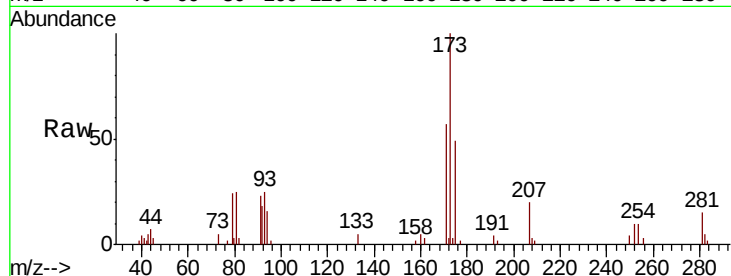
ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.6	24.6	73.8
254	0.0	0.1	0.1#

Manual Integrations
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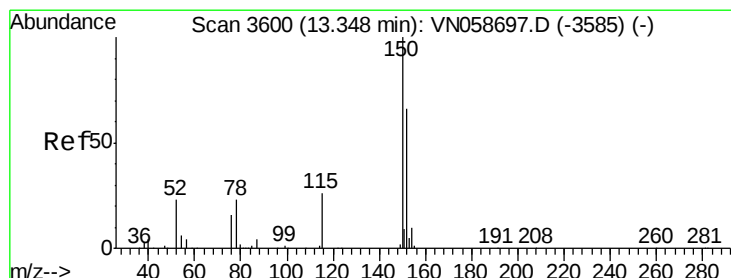
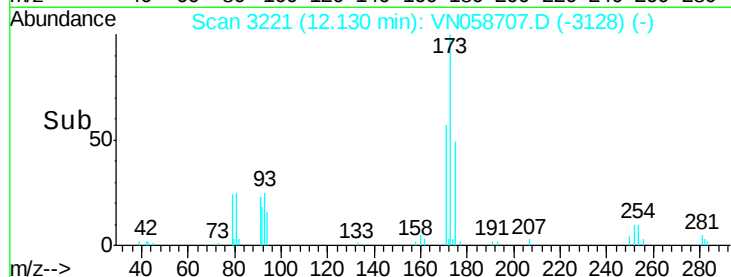
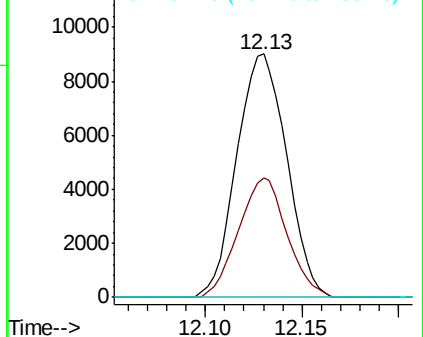


Abundance

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

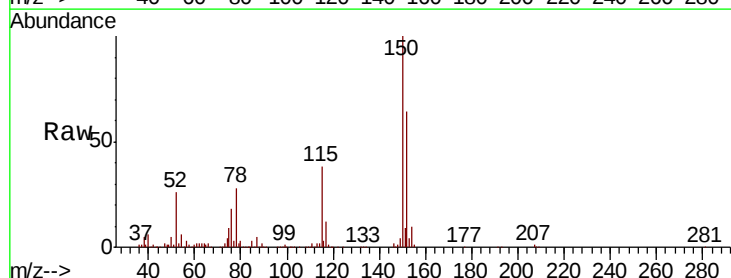
RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.1	30.4	91.2
150	157.8	0.0	345.4

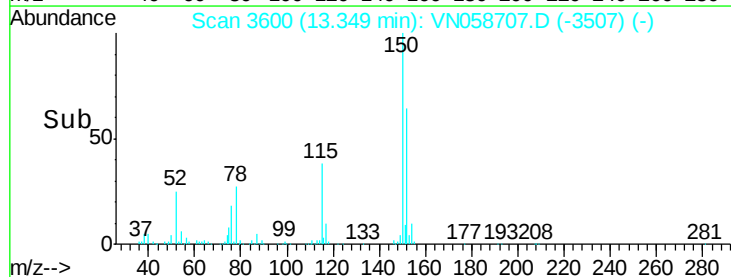
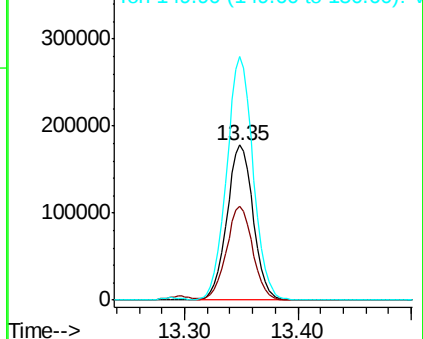


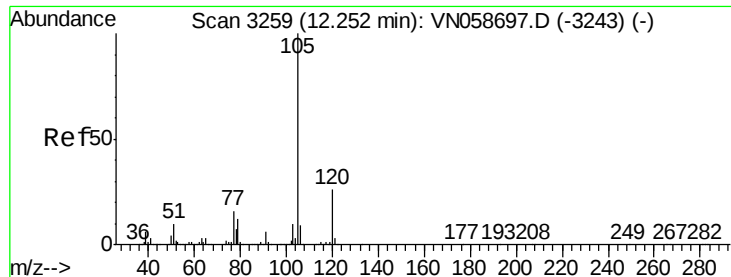
Abundance

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: 5.206 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

Tot Ion: 105 Resp: 108383

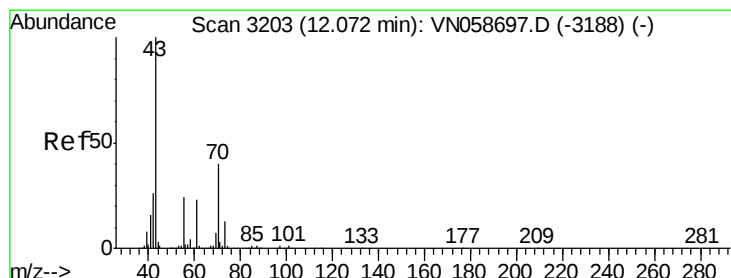
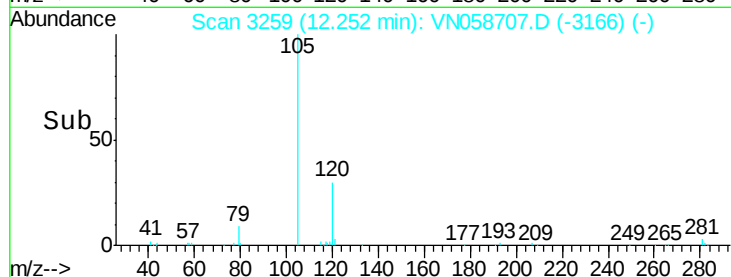
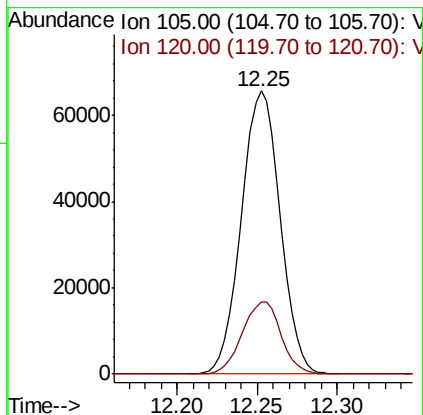
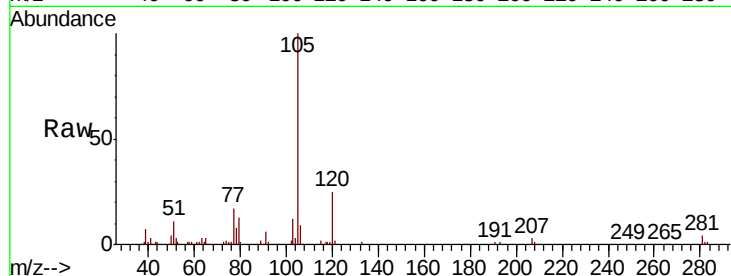
Ion Ratio Lower Upper

105 100

120 25.5 13.1 39.1

Manual Integrations
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#74

N-ethyl acetate

Concen: 4.790 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Tgt Ion: 43 Resp: 44786

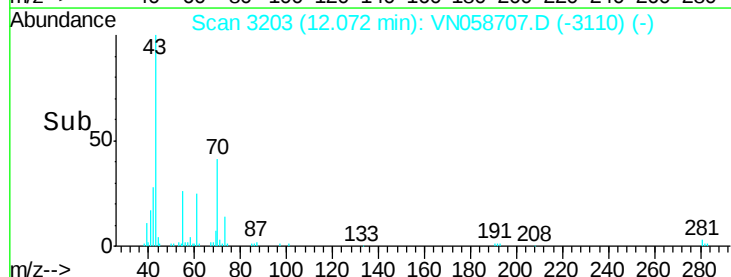
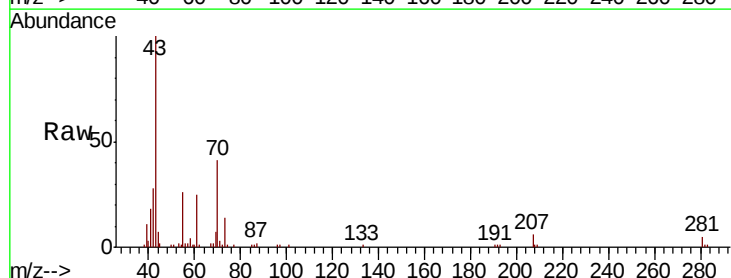
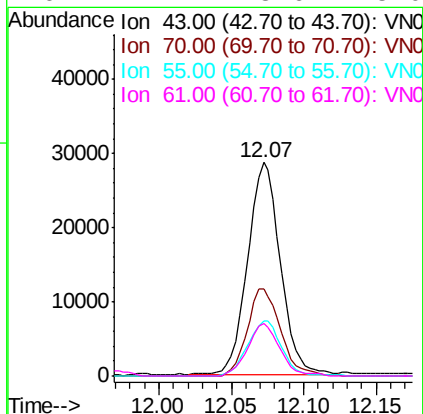
Ion Ratio Lower Upper

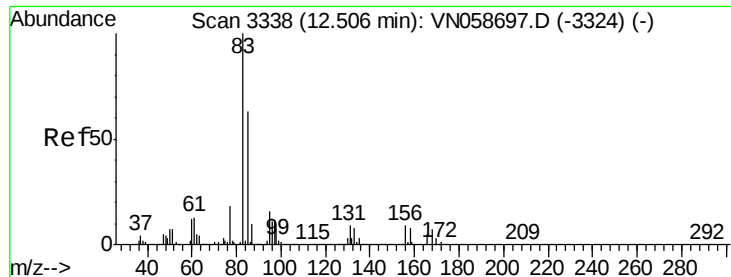
43 100

70 42.0 32.2 48.4

55 27.1 19.6 29.4

61 24.4 18.6 28.0





#75

1,1,2,2-Tetrachloroethane

Concen: 5.273 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

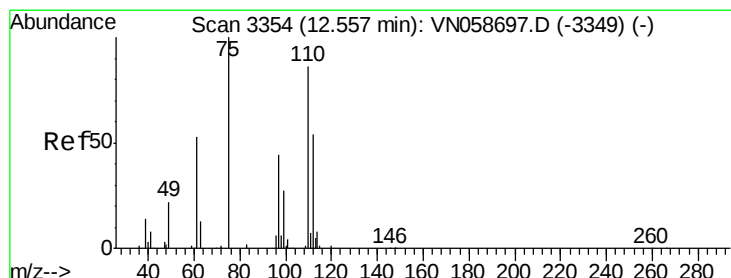
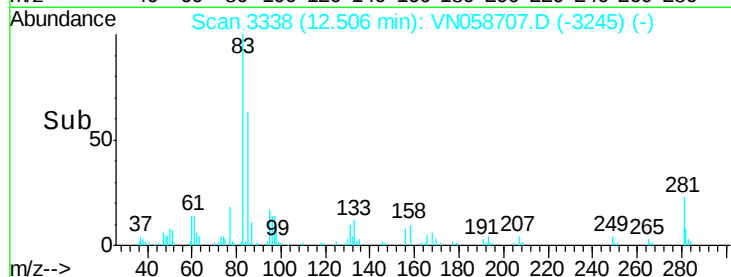
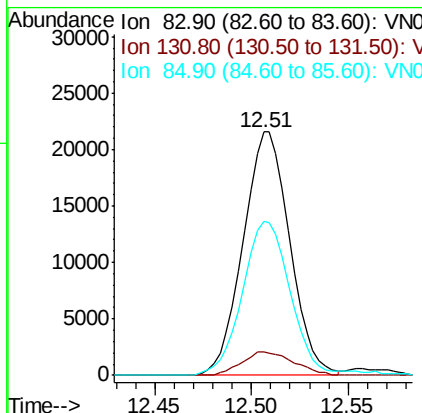
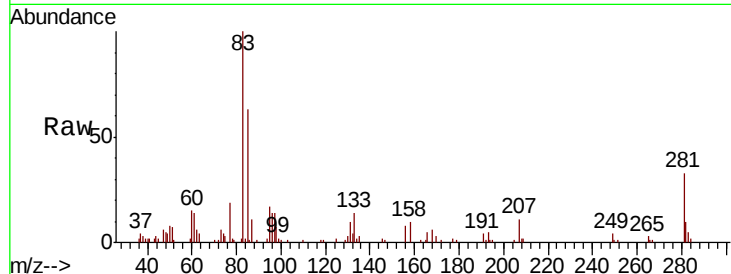
ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

Tot Ion:	83	Resp:	36166
Ion Ratio	Lower	Upper	
83	100		
131	10.7	4.8	14.4
85	64.3	31.9	95.5

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#76

1,2,3-Trichloropropane

Concen: 5.688 ug/l m

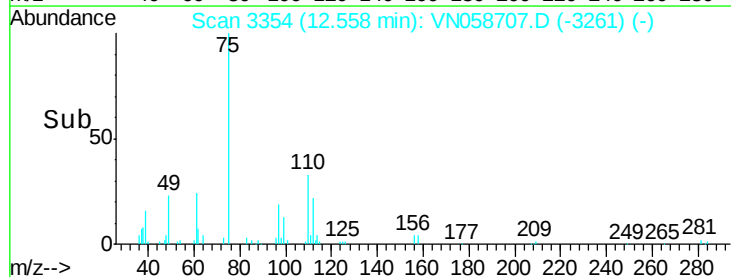
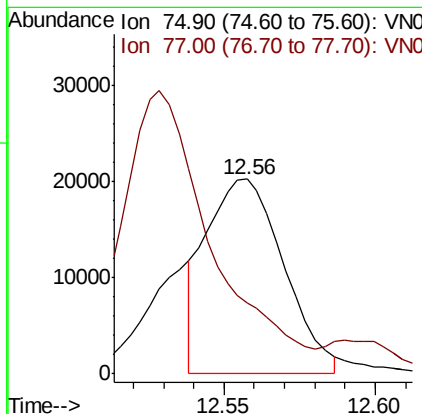
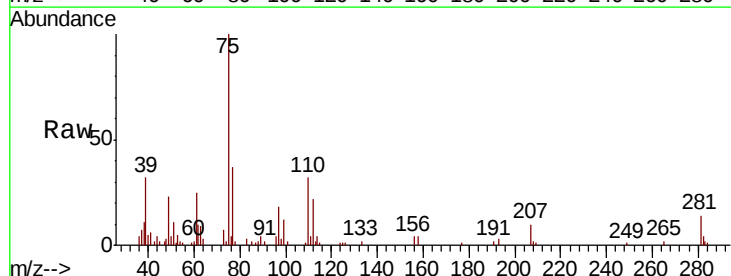
RT: 12.56 min Scan# 3354

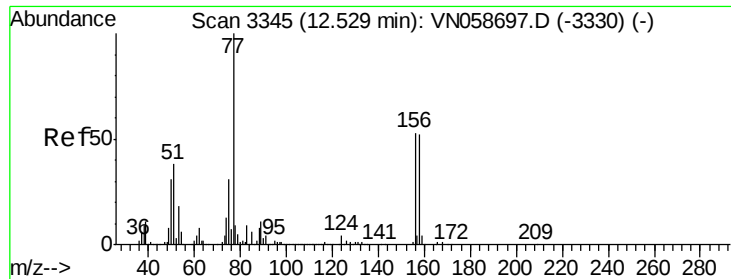
Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Tgt Ion:	75	Resp:	35871
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





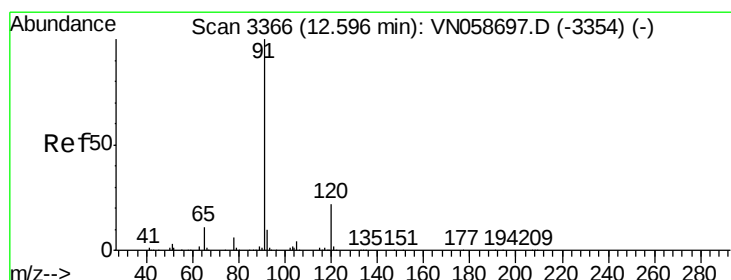
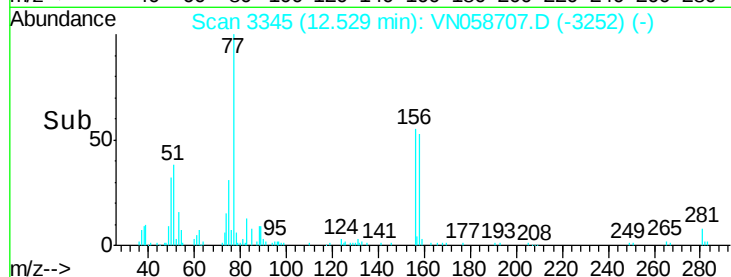
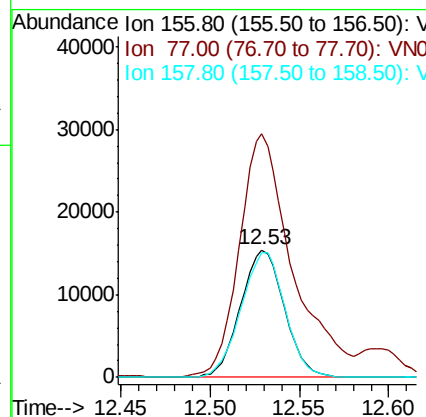
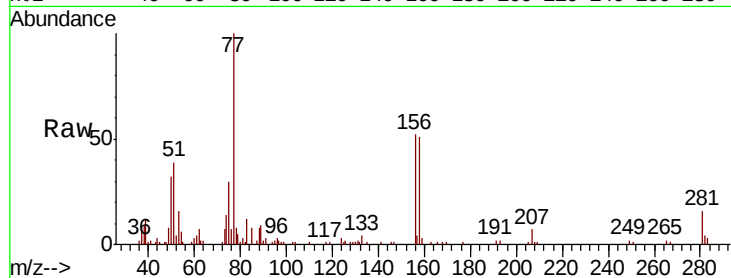
#77
Bromobenzene
Concen: 5.218 ug/l
RT: 12.53 min Scan# 3345
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
156	100		
77	232.4	115.8	347.3
158	98.8	48.9	146.6

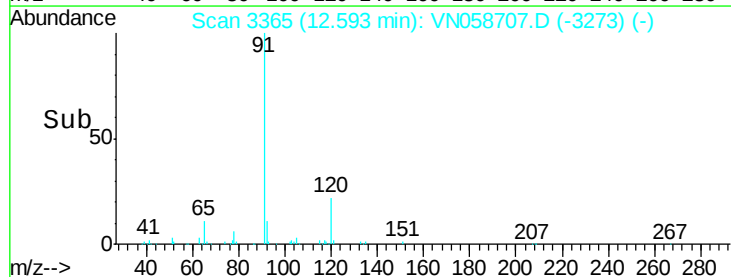
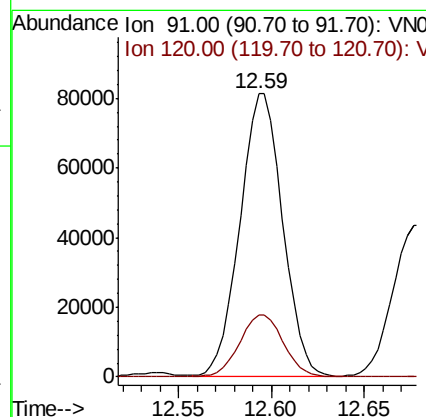
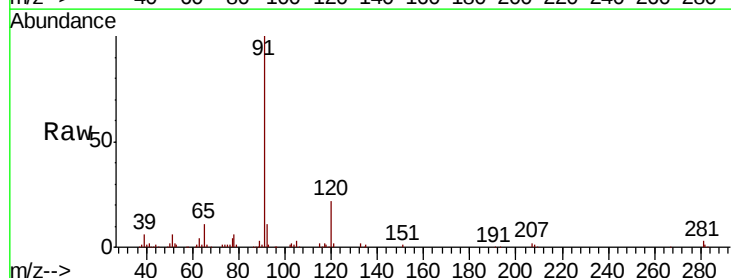
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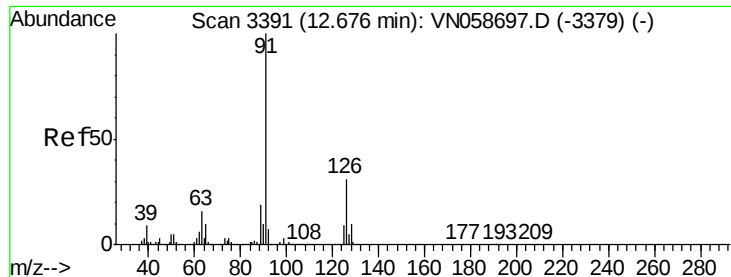
MMDadoda
10/16/2019 12:48:49 AM



#78
n-propylbenzene
Concen: 5.331 ug/l
RT: 12.59 min Scan# 3365
Delta R.T. -0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.3





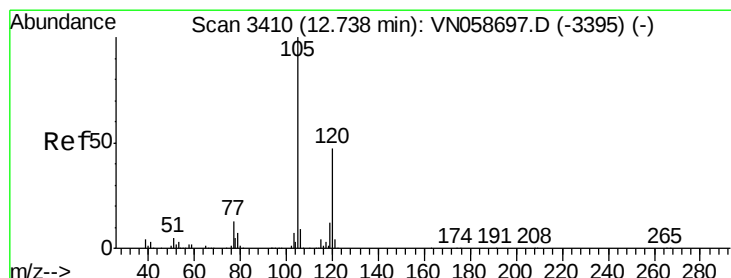
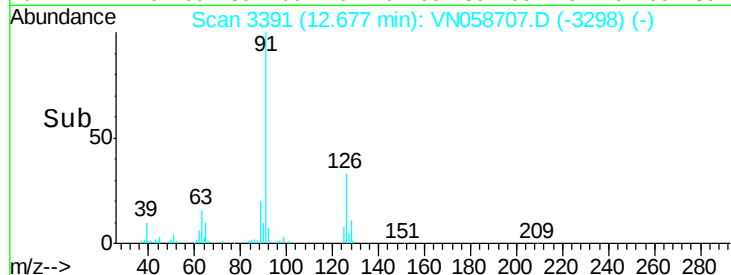
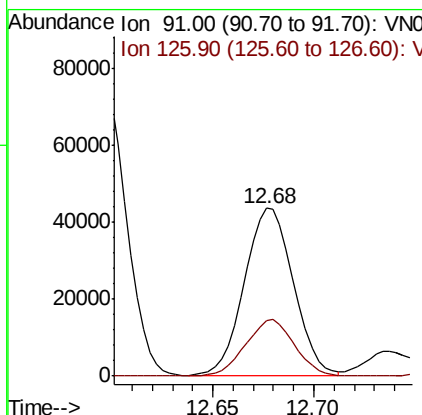
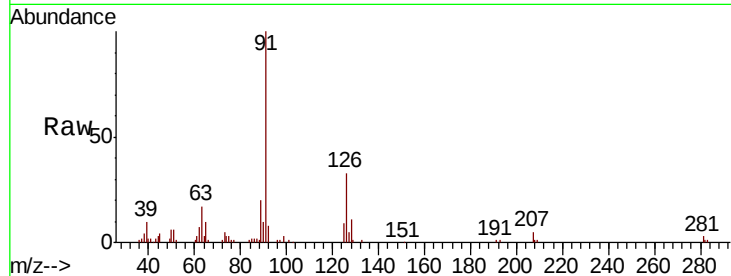
#79
2-Chlorotoluene
Concen: 4.923 ug/l
RT: 12.68 min Scan# 3391
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion: 91 Resp: 74118
Ion Ratio Lower Upper
91 100
126 33.6 16.2 48.5

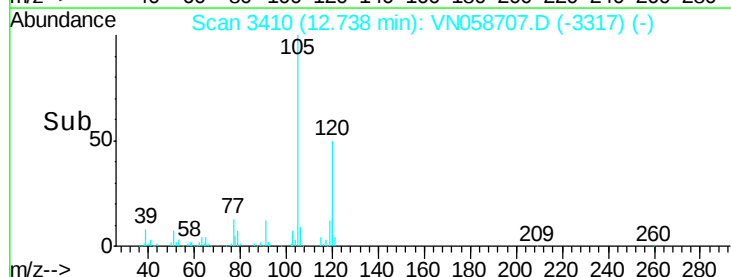
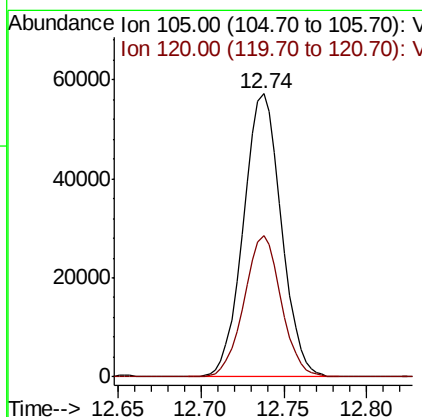
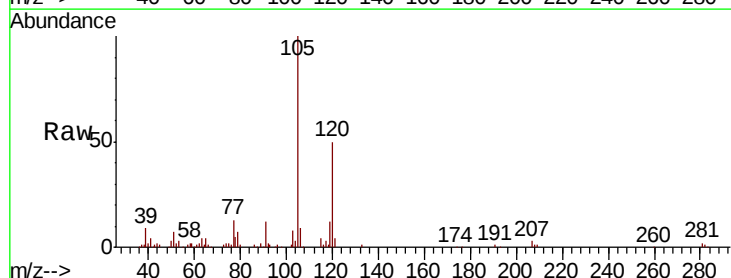
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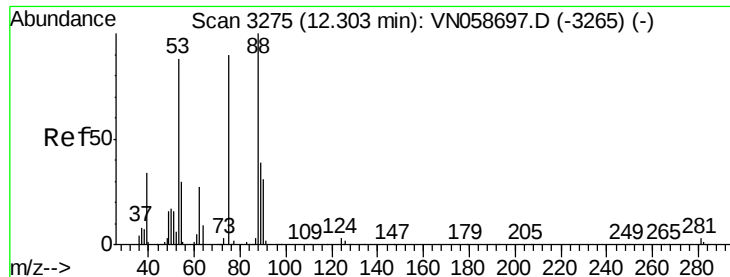
MMDadoda
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#80
1,3,5-Trimethylbenzene
Concen: 5.100 ug/l
RT: 12.74 min Scan# 3410
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Tgt Ion: 105 Resp: 90637
Ion Ratio Lower Upper
105 100
120 49.0 23.4 70.2





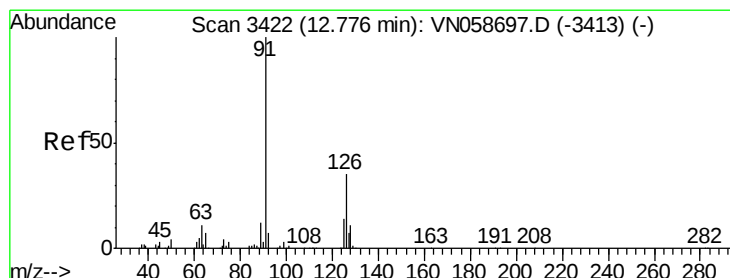
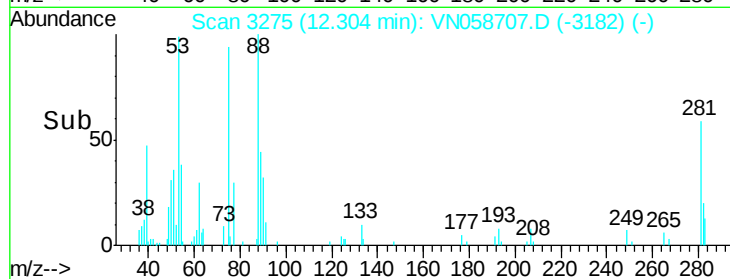
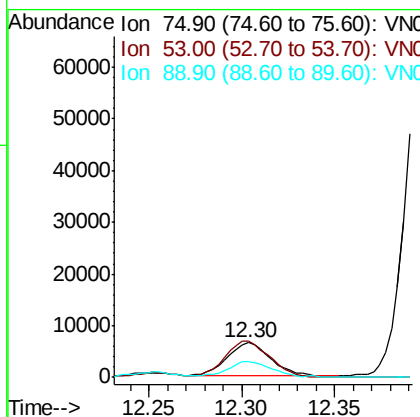
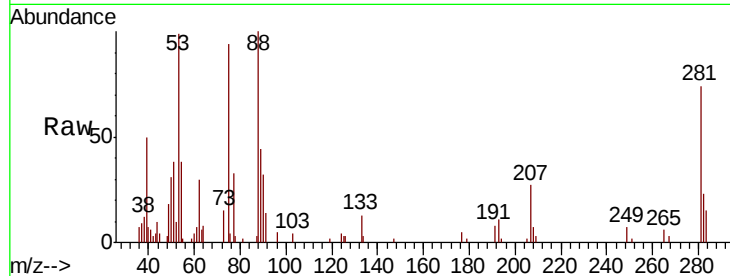
#81
trans-1,4-Dichloro-2-butene
Concen: 4.289 ug/l
RT: 12.30 min Scan# 3275
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
75	100		
53	116.1	78.4	117.6
89	51.9	34.9	52.3

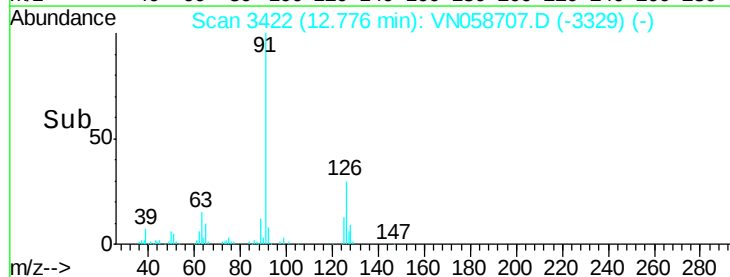
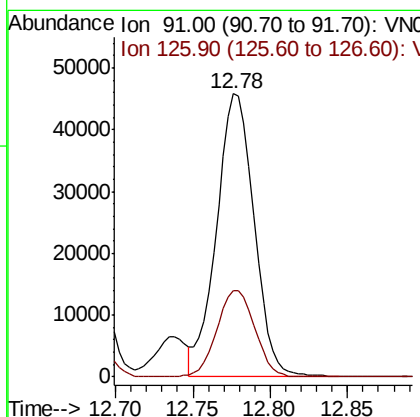
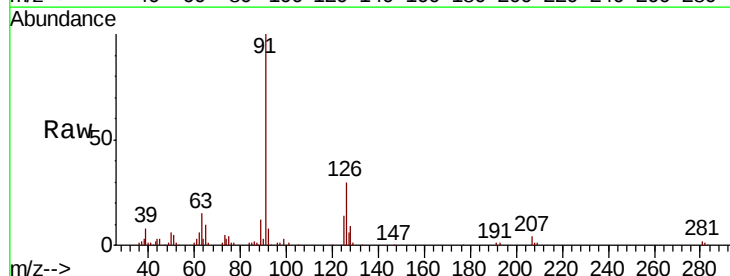
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#82
4-Chlorotoluene
Concen: 5.010 ug/l
RT: 12.78 min Scan# 3422
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.7	15.9	47.6





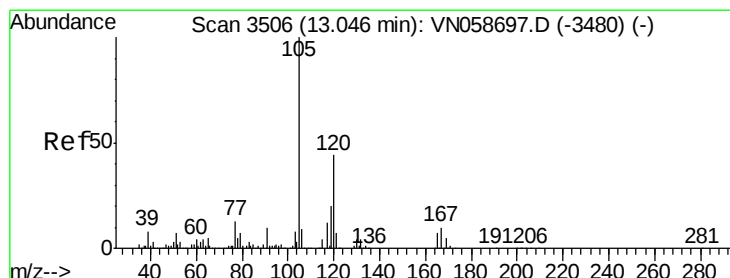
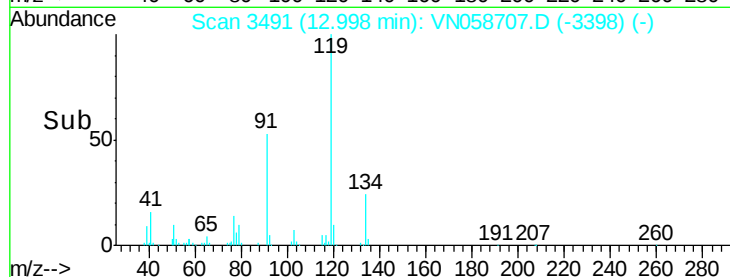
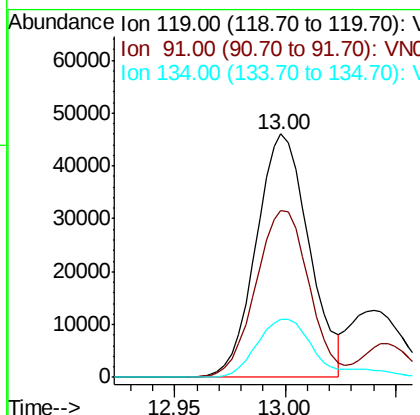
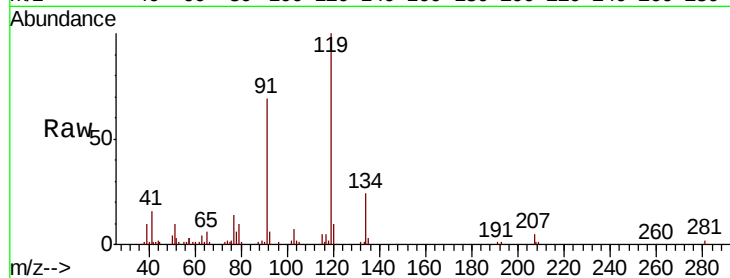
#83
tert-Butylbenzene
Concen: 5.018 ug/l
RT: 13.00 min Scan# 3491
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
119	100		
91	69.2	33.8	101.3
134	24.6	12.6	37.6

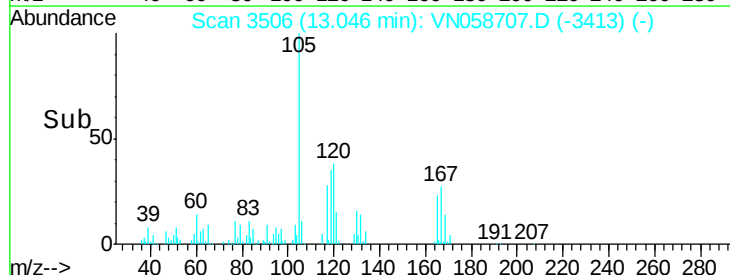
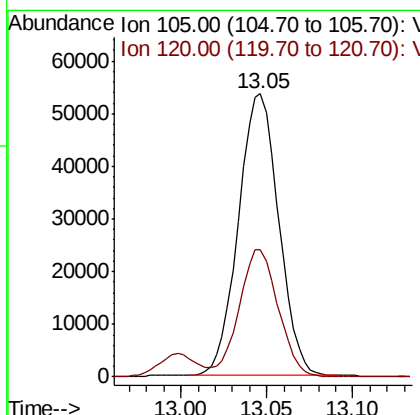
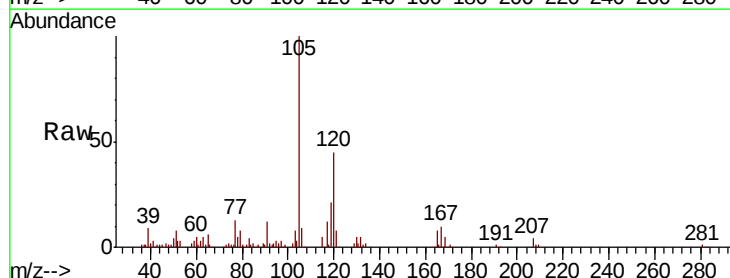
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#84
1,2,4-Trimethylbenzene
Concen: 4.948 ug/l
RT: 13.05 min Scan# 3506
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.7	21.9	65.7





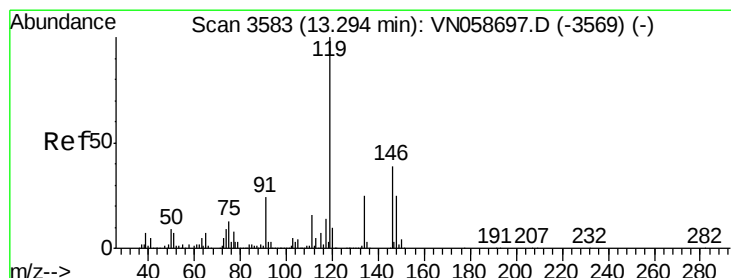
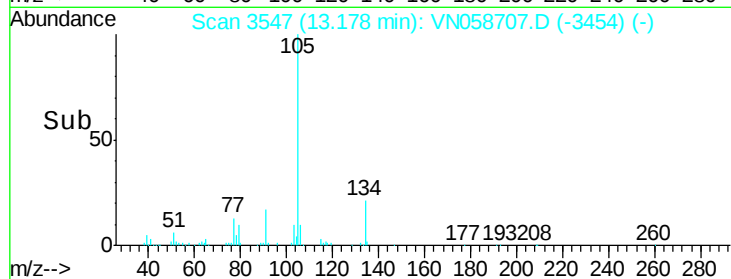
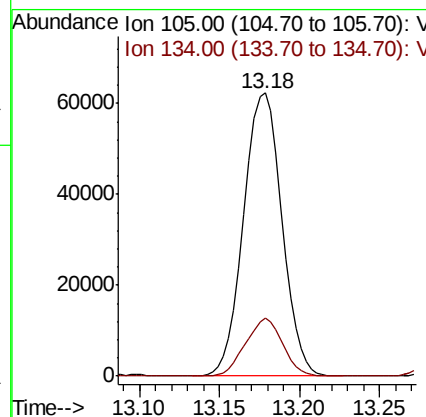
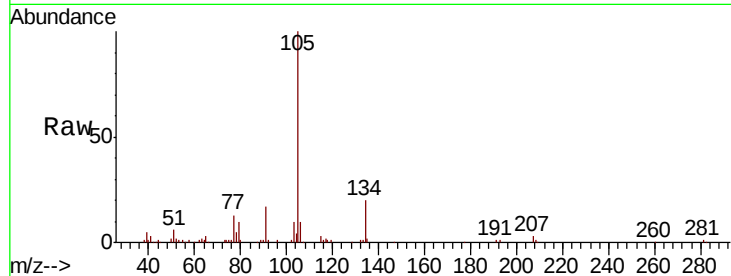
#85
 sec-Butylbenzene
 Concen: 5.078 ug/l
 RT: 13.18 min Scan# 3547
 Delta R.T. 0.00 min
 Lab File: VN058707.D
 Acq: 11 Oct 2019 16:42

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
105	100	101888		
134	19.7	9.7	29.1	

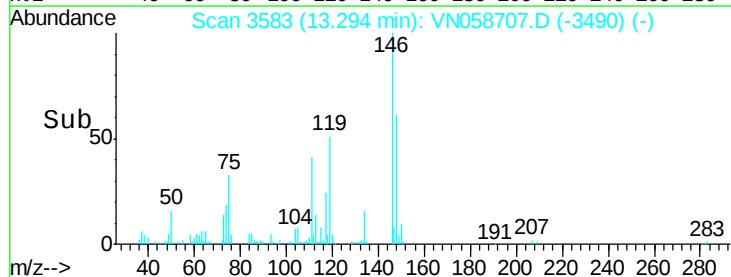
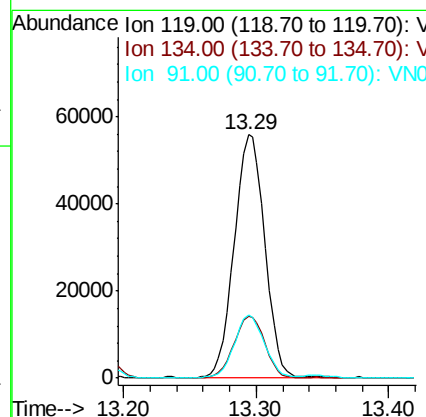
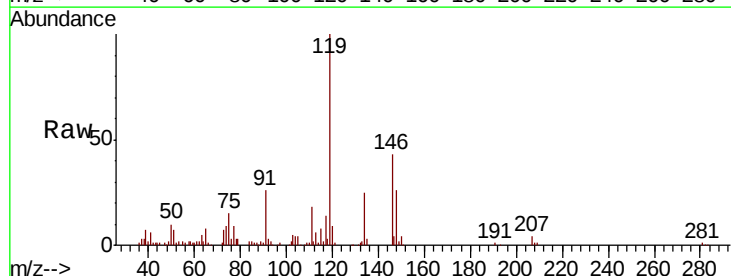
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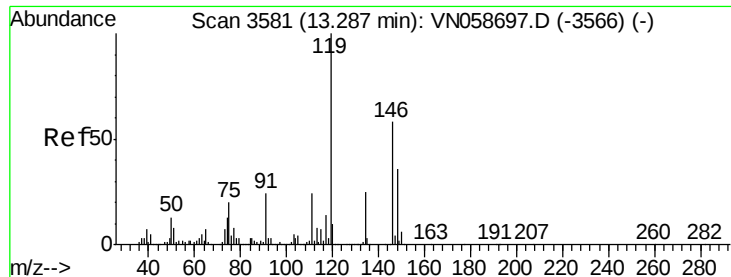
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#86
 p-Isopropyltoluene
 Concen: 4.925 ug/l
 RT: 13.29 min Scan# 3583
 Delta R.T. 0.00 min
 Lab File: VN058707.D
 Acq: 11 Oct 2019 16:42

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	89812		
134	25.4	12.7	38.1	
91	25.7	11.9	35.5	





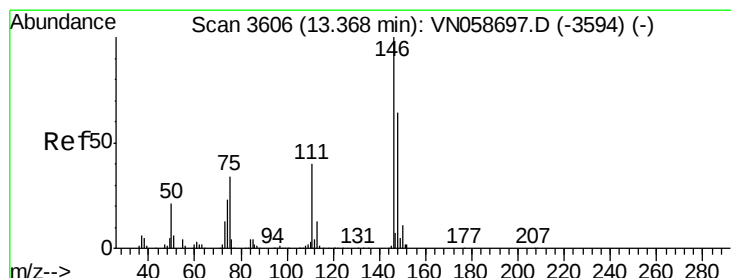
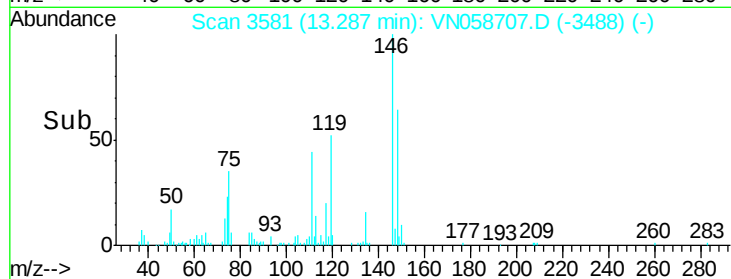
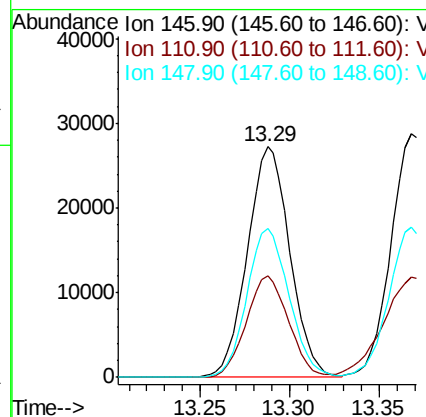
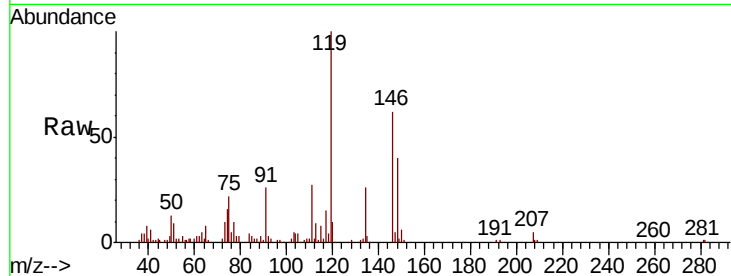
#87
 1,3-Dichlorobenzene
 Concen: 4.861 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN058707.D
 Acq: 11 Oct 2019 16:42

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.8	20.5	61.6
148	64.0	31.3	93.9

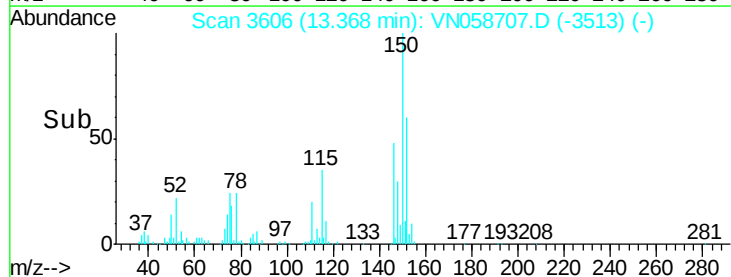
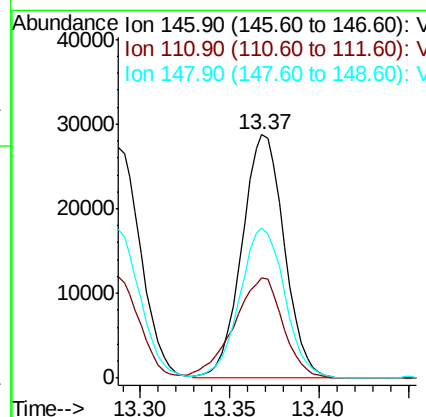
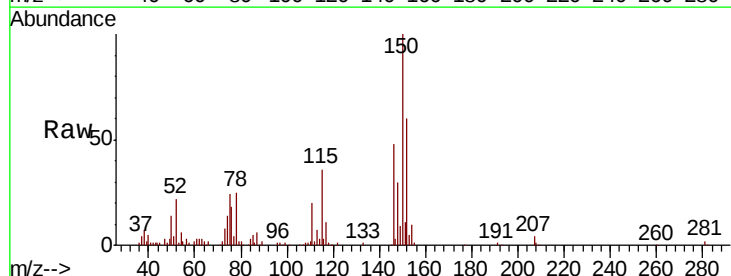
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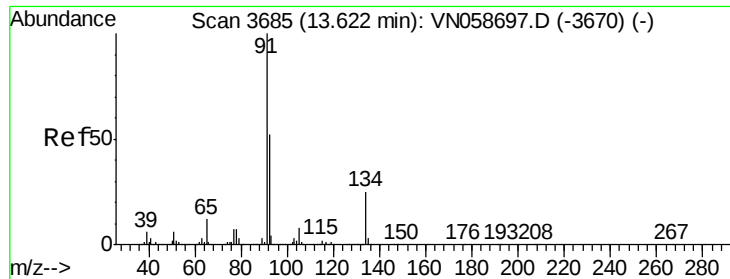
MMDadoda
 10/16/2019 12:48:49 AM



#88
 1,4-Dichlorobenzene
 Concen: 5.014 ug/l
 RT: 13.37 min Scan# 3606
 Delta R.T. 0.00 min
 Lab File: VN058707.D
 Acq: 11 Oct 2019 16:42

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.7	20.1	60.2
148	65.5	31.9	95.7





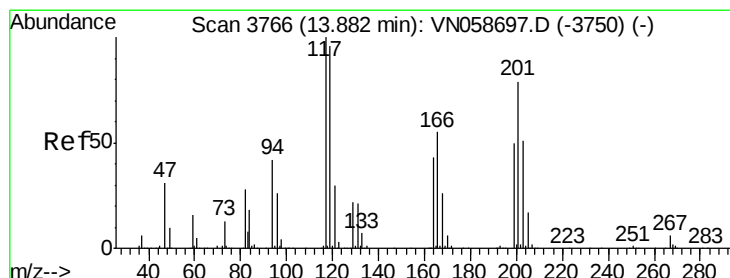
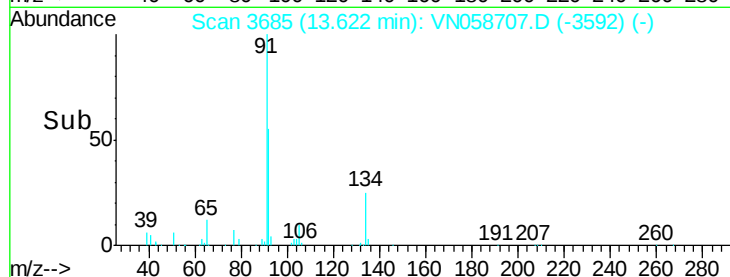
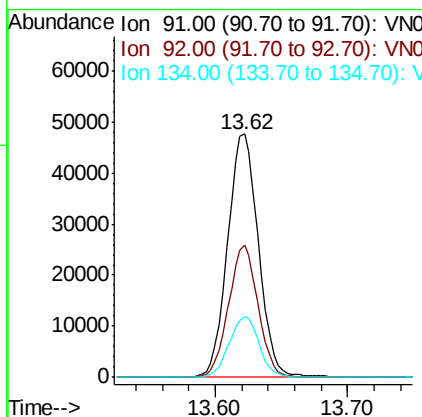
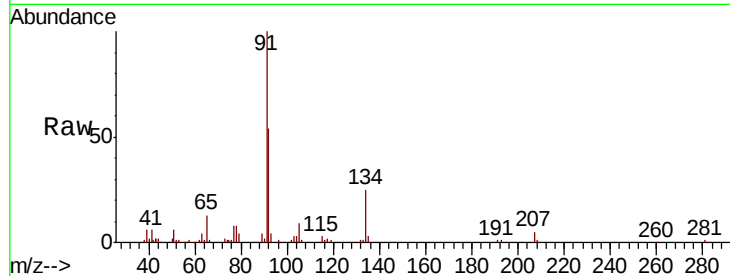
#89
n-Butylbenzene
Concen: 4.547 ug/l
RT: 13.62 min Scan# 3685
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.0	26.0	78.0
134	24.4	12.2	36.6

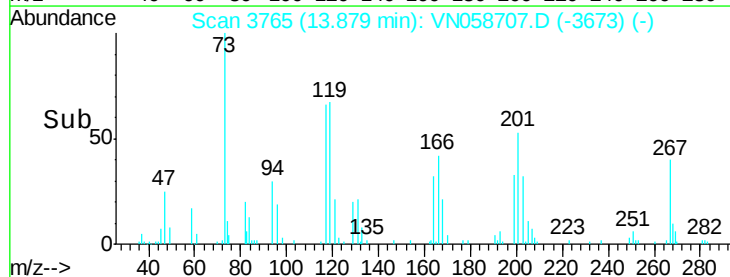
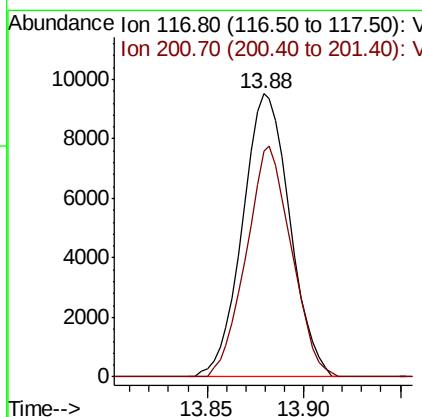
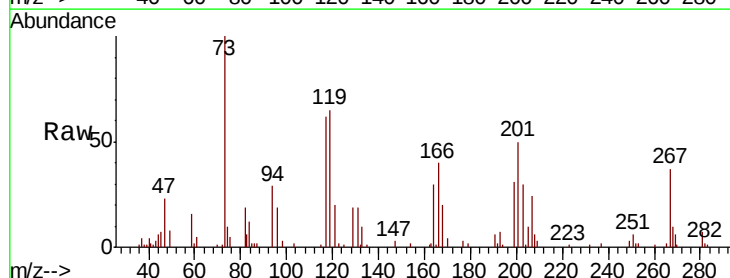
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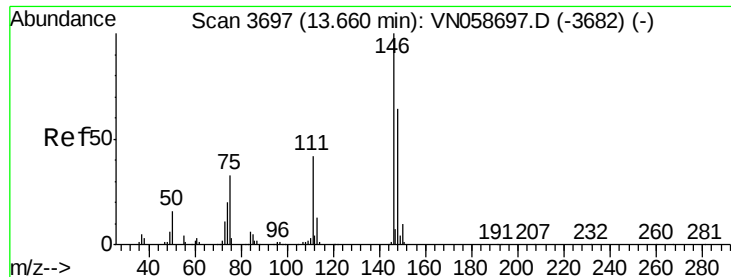
MMDadoda
10/16/2019 12:48:49 AM



#90
Hexachloroethane
Concen: 4.967 ug/l
RT: 13.88 min Scan# 3765
Delta R.T. -0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Tgt Ion	Ratio	Lower	Upper
117	100		
201	77.8	39.6	118.7





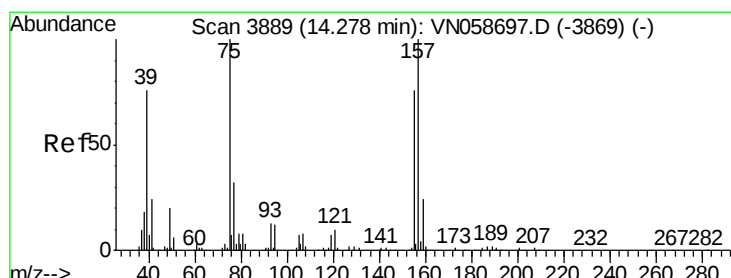
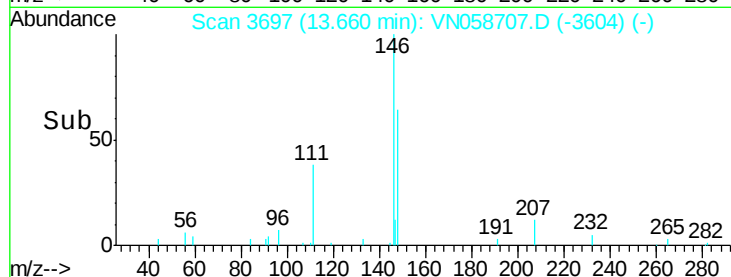
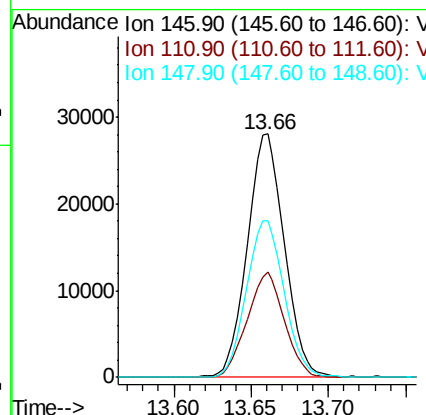
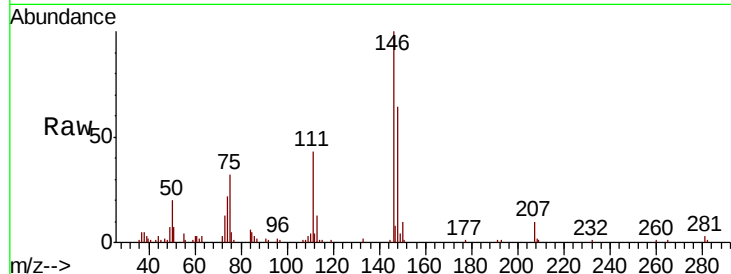
#91
 1,2-Dichlorobenzene
 Concen: 5.150 ug/l
 RT: 13.66 min Scan# 3697
 Delta R.T. 0.00 min
 Lab File: VN058707.D
 Acq: 11 Oct 2019 16:42

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.1	63.4
148	65.5	31.8	95.3

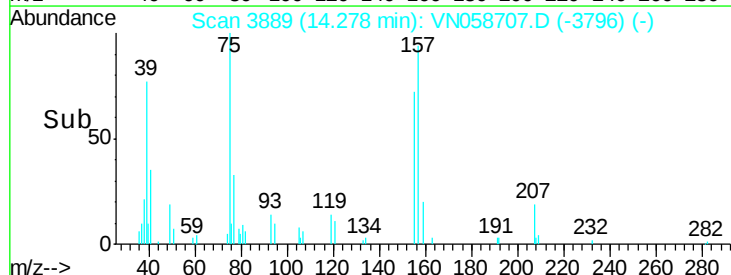
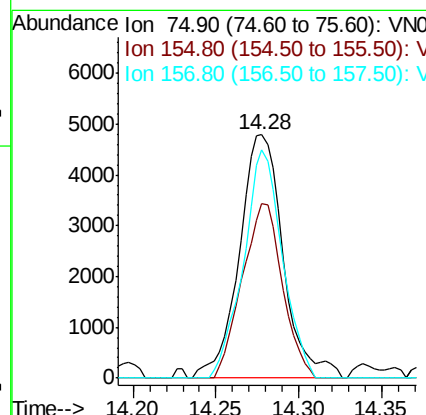
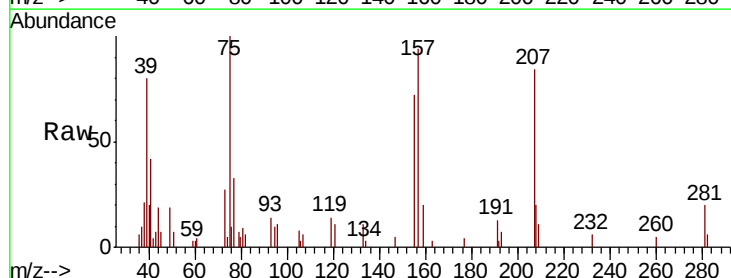
Manual Integrations
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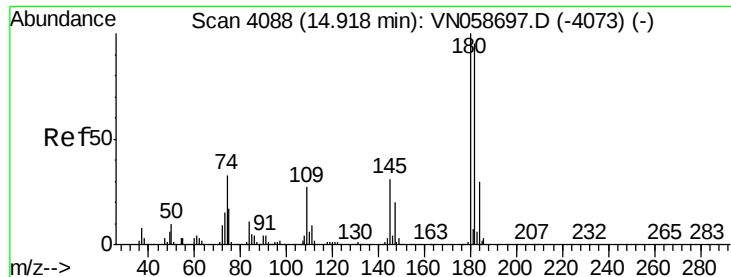
MMDadoda
 10/16/2019 12:48:49 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 5.499 ug/l
 RT: 14.28 min Scan# 3889
 Delta R.T. 0.00 min
 Lab File: VN058707.D
 Acq: 11 Oct 2019 16:42

Tgt Ion	Ratio	Lower	Upper
75	100		
155	65.4	37.9	113.6
157	82.8	49.4	148.2





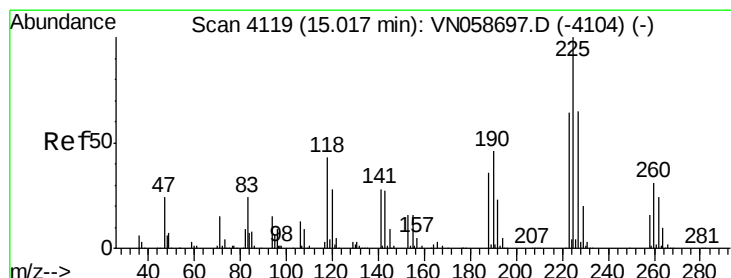
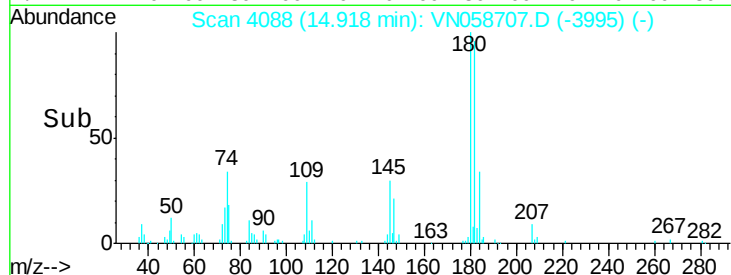
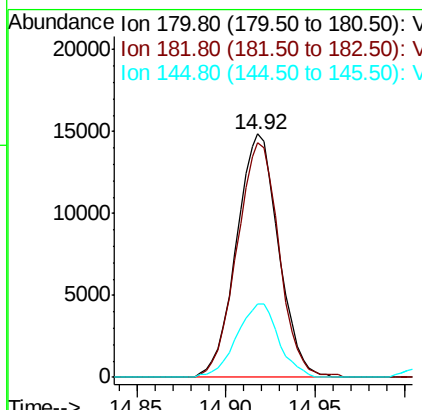
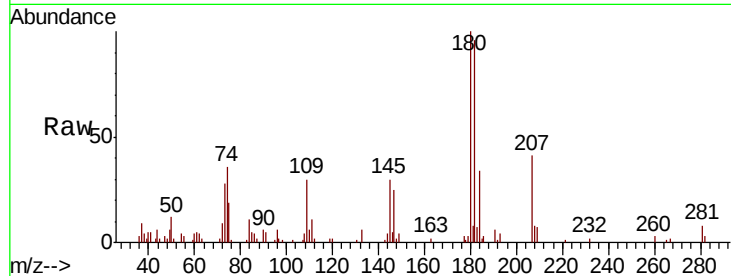
#93
 1,2,4-Trichlorobenzene
 Concen: 4.388 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VN058707.D
 Acq: 11 Oct 2019 16:42

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
180	100	24361		
182	96.5	47.4	142.2	
145	30.1	15.4	46.2	

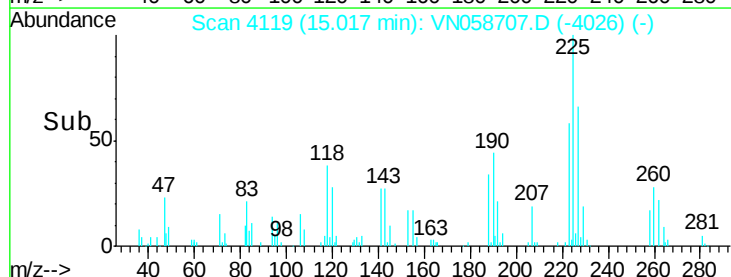
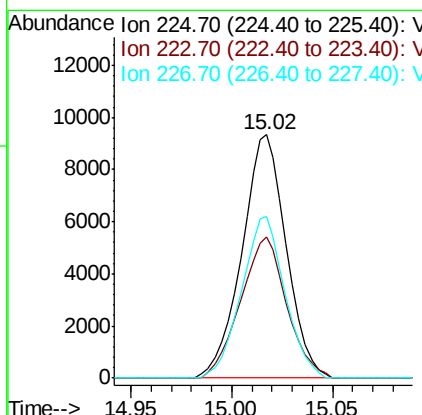
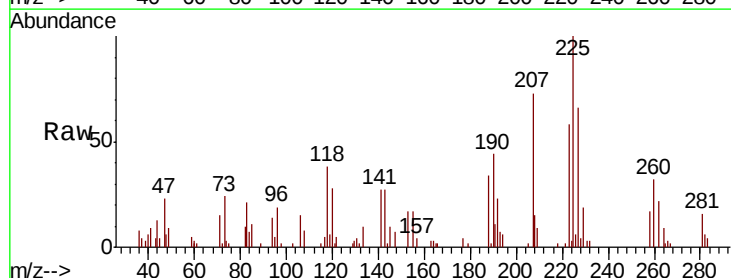
Manual Integrations
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 10/16/2019 12:48:49 AM



#94
 Hexachlorobutadiene
 Concen: 4.892 ug/l
 RT: 15.02 min Scan# 4119
 Delta R.T. 0.00 min
 Lab File: VN058707.D
 Acq: 11 Oct 2019 16:42

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	14303		
223	60.4	32.3	96.8	
227	65.0	32.4	97.0	





#95

Naphthalene

Concen: 4.529 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

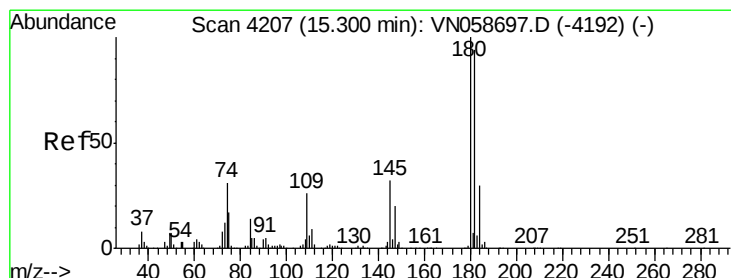
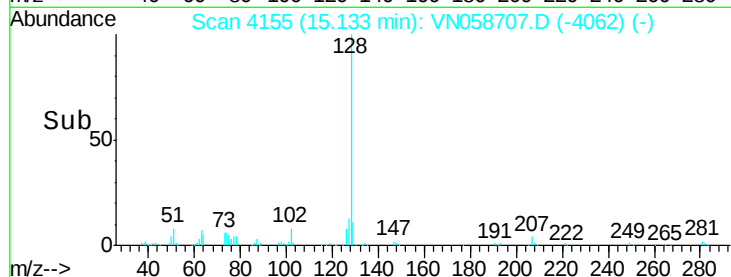
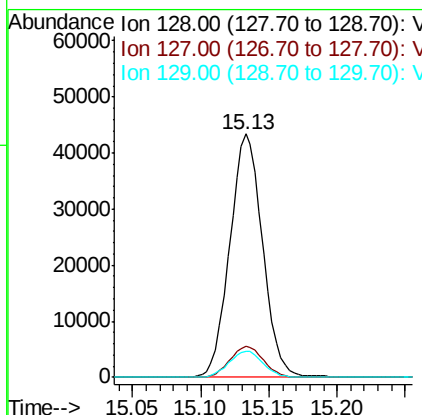
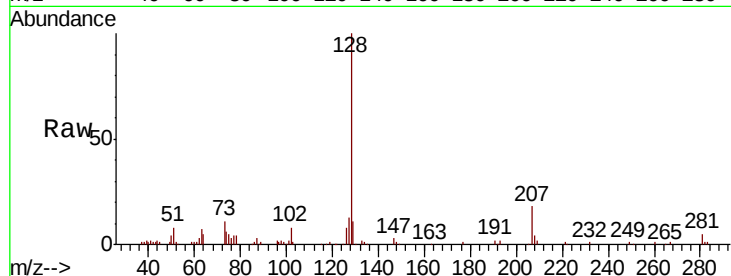
ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

Tot Ion:	128	Resp:	72265
Ion Ratio	Lower	Upper	
128	100		
127	12.9	10.2	15.4
129	11.0	8.5	12.7

Manual Integrations
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10/16/2019 12:48:49 AM



#96

1,2,3-Trichlorobenzene

Concen: 4.375 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Tgt Ion:	180	Resp:	23715
Ion Ratio	Lower	Upper	
180	100		
182	100.3	47.3	142.0
145	34.3	16.2	48.6

