

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101519\
 Data File : VN058775.D
 Acq On : 15 Oct 2019 12:36
 Operator : JC/SP
 Sample : K5111-09 2.5PPB MDL
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda

10/18/2019 12:42:34 AM

Quant Time: Oct 16 04:34:48 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	377244	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	611395	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	554661	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	236985	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	284245	53.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.64%	
35) Dibromofluoromethane	7.57	113	204498	54.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.30%	
50) Toluene-d8	10.08	98	760432	50.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.70%	
62) 4-Bromofluorobenzene	12.40	95	261834	45.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.60%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	12483	2.657	ug/l	99
3) Chloromethane	2.04	50	15722	2.814	ug/l	93
4) Vinyl Chloride	2.17	62	15275	2.745	ug/l	92
5) Bromomethane	2.55	94	10726	3.169	ug/l	99
6) Chloroethane	2.68	64	9682	2.821	ug/l	98
7) Trichlorofluoromethane	3.00	101	18459	2.772	ug/l	97
8) Diethyl Ether	3.39	74	6597	2.681	ug/l	88
9) 1,1,2-Trichlorotrifluoroet	3.74	101	11216	2.954	ug/l	93
10) Methyl Iodide	3.93	142	13263	2.560	ug/l #	75
11) Tert butyl alcohol	4.76	59	12829	14.999	ug/l	96
12) 1,1-Dichloroethene	3.72	96	10150	2.802	ug/l	98
13) Acrolein	3.59	56	7960	11.572	ug/l	95
14) Allyl chloride	4.30	41	21009	2.874	ug/l	98
15) Acrylonitrile	4.96	53	29024	13.456	ug/l	98
16) Acetone	3.80	43	30503	13.951	ug/l	96
17) Carbon Disulfide	4.03	76	32019	2.765	ug/l	99
18) Methyl Acetate	4.30	43	17287	3.117	ug/l	98
19) Methyl tert-butyl Ether	5.01	73	34533	2.669	ug/l	100
20) Methylene Chloride	4.53	84	12714	2.782	ug/l	97
21) trans-1,2-Dichloroethene	5.02	96	10765	2.656	ug/l	97
22) Diisopropyl ether	5.93	45	37871	2.664	ug/l #	87
23) Vinyl Acetate	5.87	43	151803	13.234	ug/l	99
24) 1,1-Dichloroethane	5.83	63	22330	2.758	ug/l	96
25) 2-Butanone	6.82	43	42076	13.314	ug/l	100
26) 2,2-Dichloropropane	6.80	77	20258	2.741	ug/l	99
27) cis-1,2-Dichloroethene	6.81	96	12685	2.684	ug/l	97
28) Bromochloromethane	7.17	49	7812	2.774	ug/l #	98
29) Tetrahydrofuran	7.19	42	27495	13.463	ug/l #	81
30) Chloroform	7.36	83	22469	2.762	ug/l	97
31) Cyclohexane	7.64	56	27049	3.492	ug/l #	62
32) 1,1,1-Trichloroethane	7.55	97	19467	2.806	ug/l	97
36) 1,1-Dichloropropene	7.78	75	17013	2.752	ug/l	98
37) Ethyl Acetate	6.91	43	14074	2.251	ug/l #	92
38) Carbon Tetrachloride	7.75	117	16861	2.799	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	17414	2.428	ug/l	94
40) Benzene	8.03	78	48212	2.716	ug/l	96
41) Methacrylonitrile	7.16	41	7490	2.559	ug/l #	23
42) 1,2-Dichloroethane	8.11	62	19461	2.853	ug/l	98
43) Isopropyl Acetate	8.15	43	28283	2.656	ug/l	99
44) Trichloroethene	8.82	130	12006	2.723	ug/l	100
45) 1,2-Dichloropropane	9.11	63	12599	2.651	ug/l	97
46) Dibromomethane	9.20	93	8585	2.849	ug/l	95
47) Bromodichloromethane	9.39	83	16815	2.740	ug/l	95
48) Methyl methacrylate	9.19	41	12474	2.584	ug/l	98
49) 1,4-Dioxane	9.19	88	4182	55.995	ug/l	98
51) 4-Methyl-2-Pentanone	9.98	43	79144	13.232	ug/l	98
52) Toluene	10.15	92	29477	2.715	ug/l	97
53) t-1,3-Dichloropropene	10.38	75	18232	2.591	ug/l #	87
54) cis-1,3-Dichloropropene	9.83	75	18595	2.489	ug/l	93
55) 1,1,2-Trichloroethane	10.55	97	12512	2.815	ug/l	94
56) Ethyl methacrylate	10.43	69	15351	2.364	ug/l	91
57) 1,3-Dichloropropane	10.70	76	20961	2.768	ug/l	95
58) 2-Chloroethyl Vinyl ether	9.69	63	34242	10.943	ug/l	98
59) 2-Hexanone	10.75	43	59049	12.775	ug/l	97
60) Dibromochloromethane	10.90	129	11519	2.513	ug/l	96
61) 1,2-Dibromoethane	11.00	107	11906	2.674	ug/l	95
64) Tetrachloroethene	10.63	164	10915	2.812	ug/l	96
65) Chlorobenzene	11.43	112	29800	2.646	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	11620	2.790	ug/l	96
67) Ethyl Benzene	11.51	91	51936	2.587	ug/l	99
68) m/p-Xylenes	11.62	106	37271	4.946	ug/l	99
69) o-Xylene	11.95	106	17435	2.392	ug/l	100
70) Styrene	11.97	104	25898	2.167	ug/l	99
71) Bromoform	12.13	173	7884	2.582	ug/l #	97
73) Isopropylbenzene	12.25	105	46757	2.724	ug/l	97
74) N-amyl acetate	12.07	43	18956	2.459	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.51	83	17231	3.048	ug/l	95
76) 1,2,3-Trichloropropane	12.55	75	17415m	3.350	ug/l	
77) Bromobenzene	12.53	156	12418	2.975	ug/l	98
78) n-propylbenzene	12.59	91	55334	2.767	ug/l	98
79) 2-Chlorotoluene	12.68	91	35115	2.829	ug/l	98
80) 1,3,5-Trimethylbenzene	12.74	105	39189	2.675	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	5396	2.780	ug/l	98
82) 4-Chlorotoluene	12.78	91	33328	2.616	ug/l	98
83) tert-Butylbenzene	13.00	119	33977	2.707	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	36970	2.542	ug/l	99
85) sec-Butylbenzene	13.17	105	42771	2.586	ug/l	98
86) p-Isopropyltoluene	13.29	119	36565	2.432	ug/l	97
87) 1,3-Dichlorobenzene	13.29	146	20900	2.715	ug/l	99
88) 1,4-Dichlorobenzene	13.37	146	20146	2.574	ug/l	85
89) n-Butylbenzene	13.62	91	33113	2.382	ug/l	96
90) Hexachloroethane	13.88	117	7593	2.823	ug/l	97
91) 1,2-Dichlorobenzene	13.66	146	20091	2.678	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.27	75	4190	3.172	ug/l	77

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Manual Integrations
APPROVED

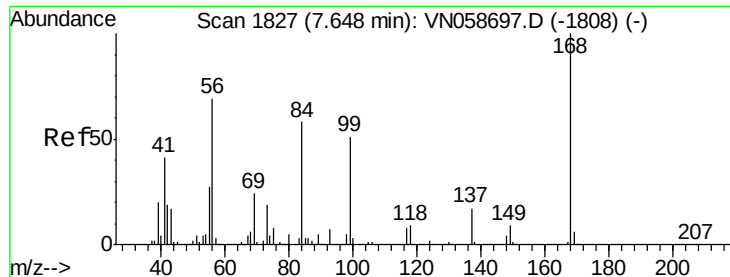
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	9503	2.076	ug/l	98
94) Hexachlorobutadiene	15.01	225	6814	2.827	ug/l	94
95) Naphthalene	15.13	128	25498	1.938	ug/l	98
96) 1,2,3-Trichlorobenzene	15.30	180	9515	2.129	ug/l	96

(#) = 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: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:168 Resp: 377244

Ion Ratio Lower Upper

168 100

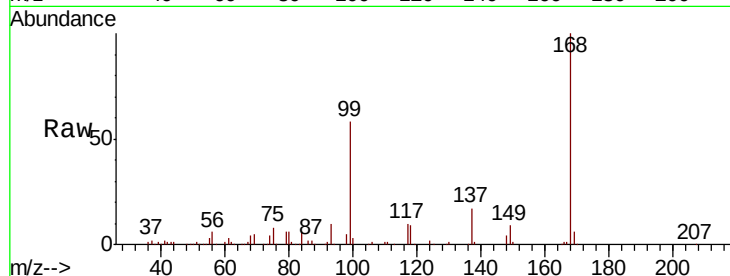
99 57.5 47.5 71.3

Manual Integrations

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10/18/2019 12:42:34 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

150000

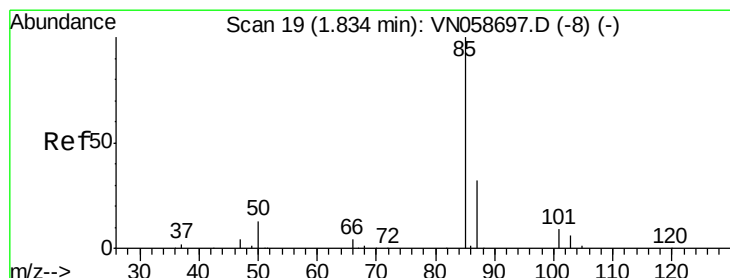
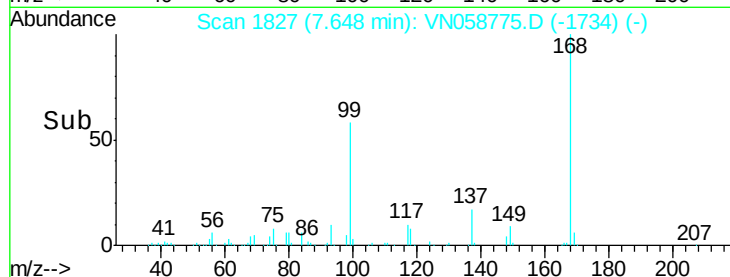
100000

50000

0

7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 2.657 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN058775.D

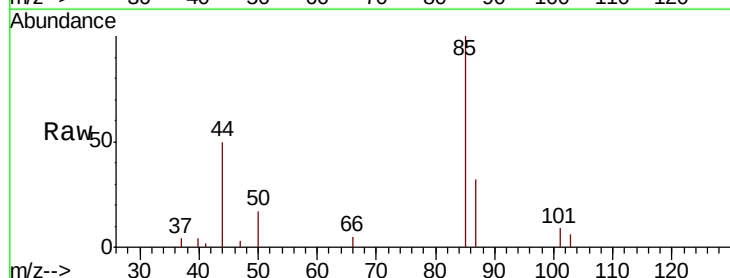
Acq: 15 Oct 2019 12:36

Tgt Ion: 85 Resp: 12483

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

10000

8000

6000

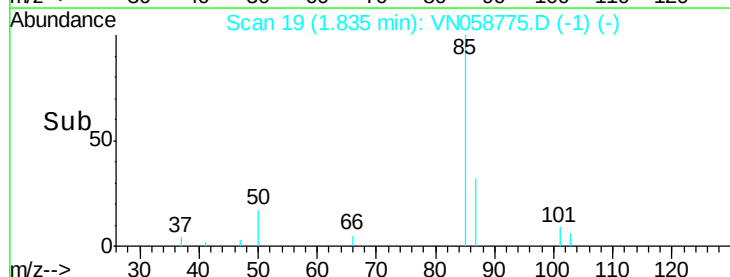
4000

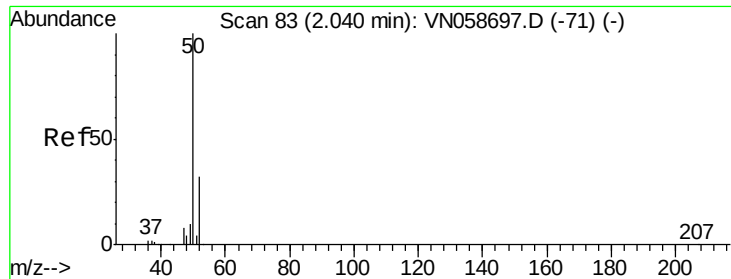
2000

0

1.80 1.85 1.90

Time-->





#3

Chloromethane

Concen: 2.814 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 50 Resp: 15722

Ion Ratio Lower Upper

50 100

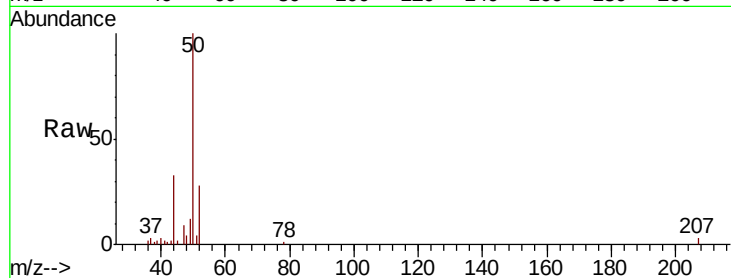
52 28.4 25.8 38.6

Manual Integrations

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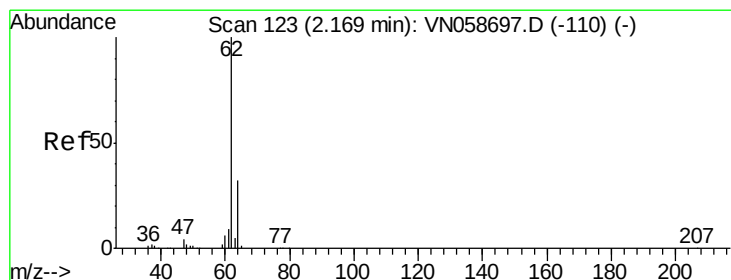
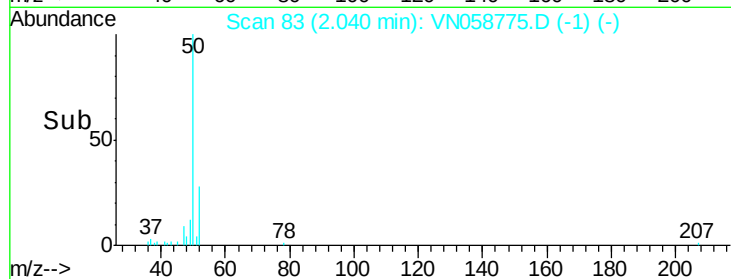
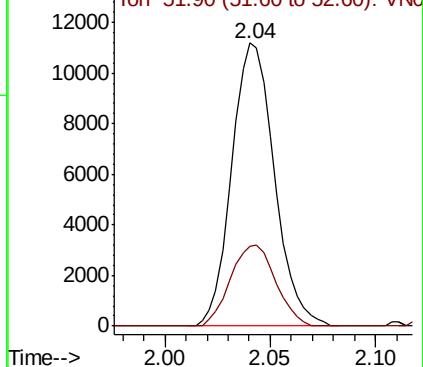
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Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 2.745 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058775.D

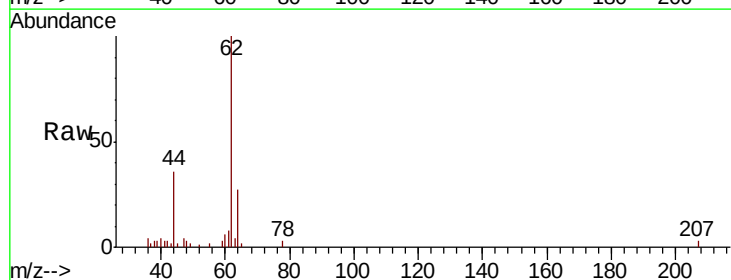
Acq: 15 Oct 2019 12:36

Tgt Ion: 62 Resp: 15275

Ion Ratio Lower Upper

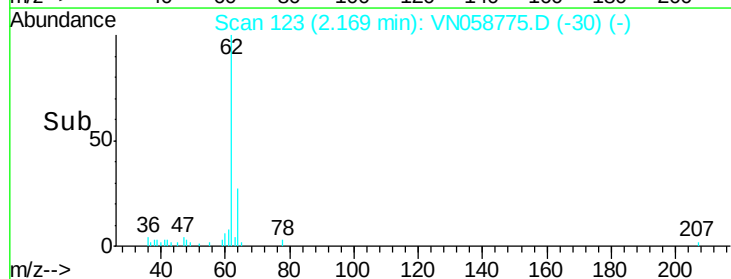
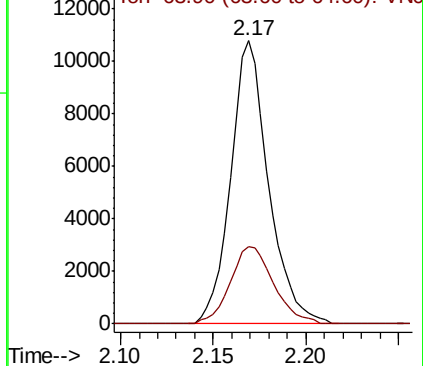
62 100

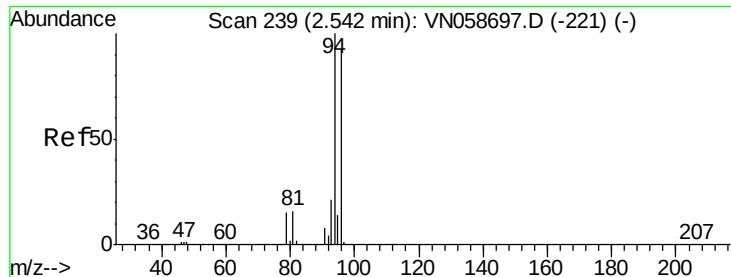
64 27.4 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 3.169 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

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MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 94 Resp: 10726

Ion Ratio Lower Upper

94 100

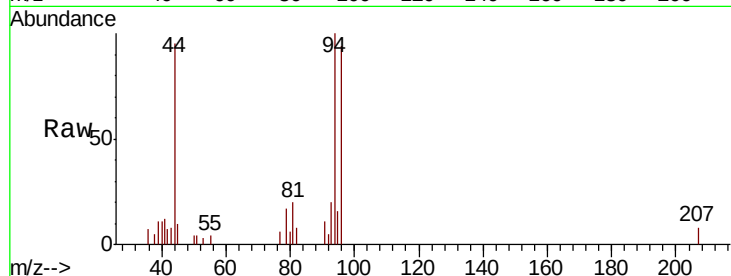
96 94.0 74.5 111.7

Manual Integrations

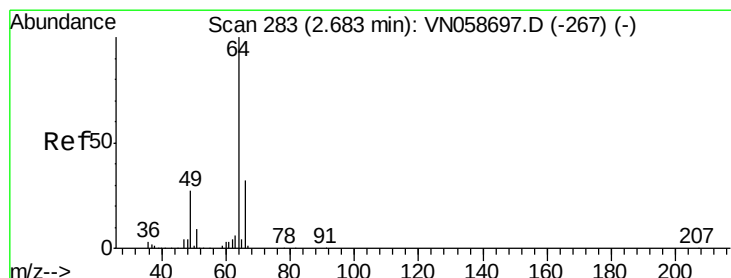
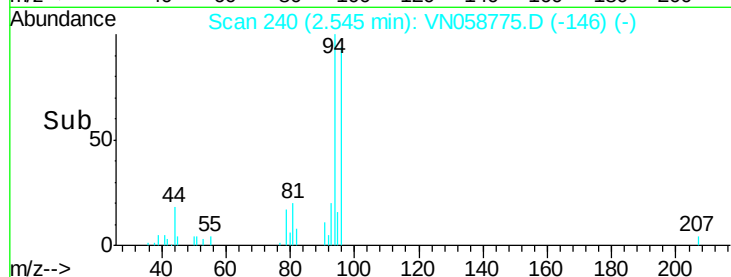
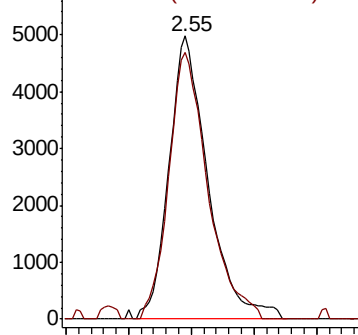
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Abundance Ion 93.90 (93.60 to 94.60): VNO
Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 2.821 ug/l

RT: 2.68 min Scan# 283

Delta R.T. 0.00 min

Lab File: VN058775.D

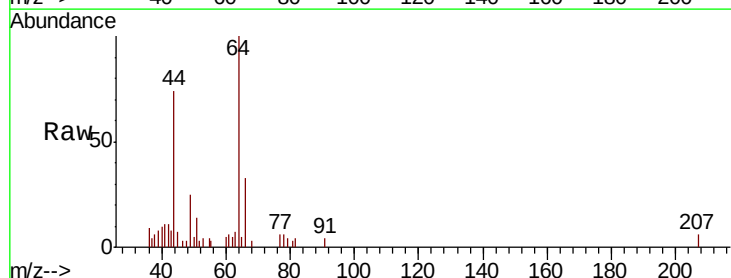
Acq: 15 Oct 2019 12:36

Tgt Ion: 64 Resp: 9682

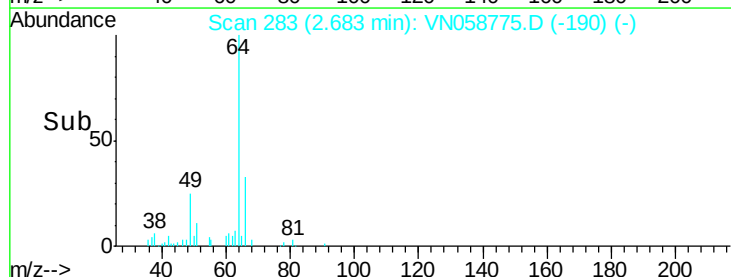
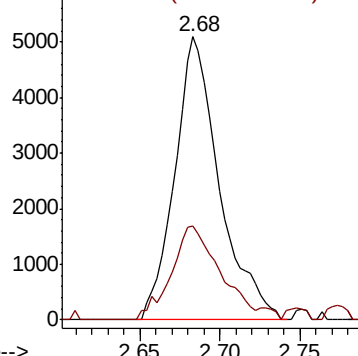
Ion Ratio Lower Upper

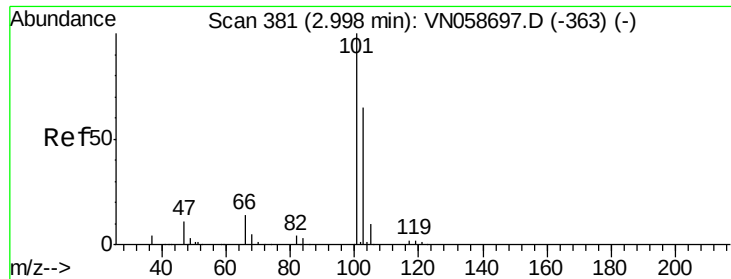
64 100

66 33.0 25.4 38.2



Abundance Ion 63.90 (63.60 to 64.60): VNO
Ion 65.90 (65.60 to 66.60): VNO





#7

Trichlorofluoromethane
 Concen: 2.772 ug/l
 RT: 3.00 min Scan# 380
 Delta R.T. -0.00 min
 Lab File: VN058775.D
 Acq: 15 Oct 2019 12:36

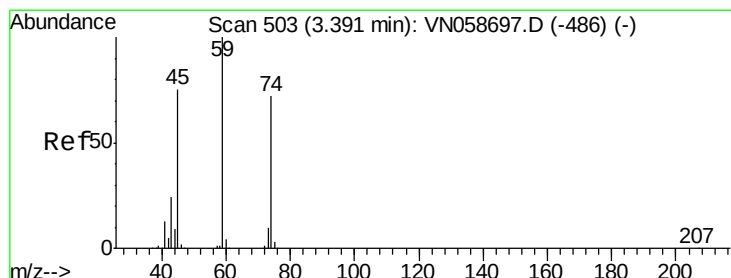
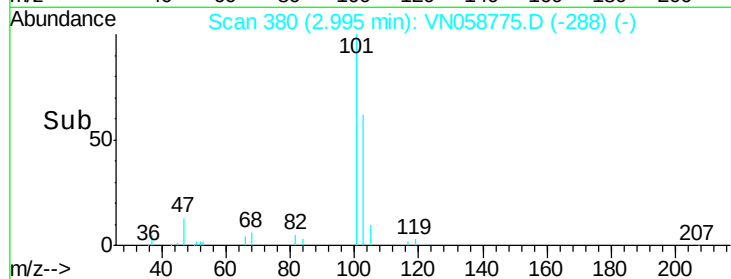
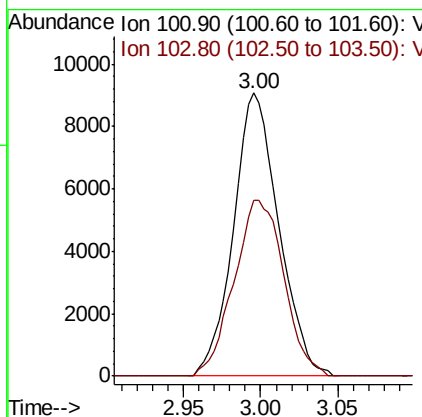
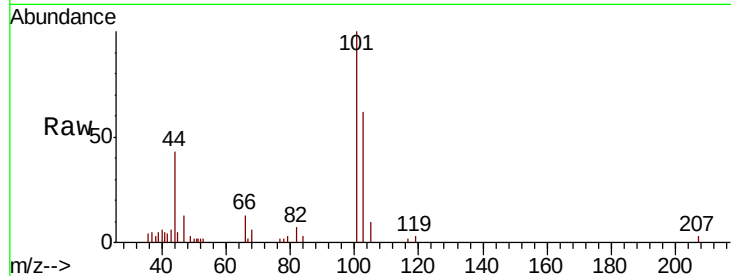
Instrument :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	62.3	51.8	77.6

Manual Integrations
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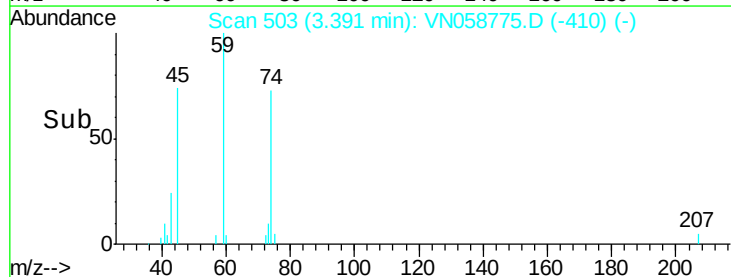
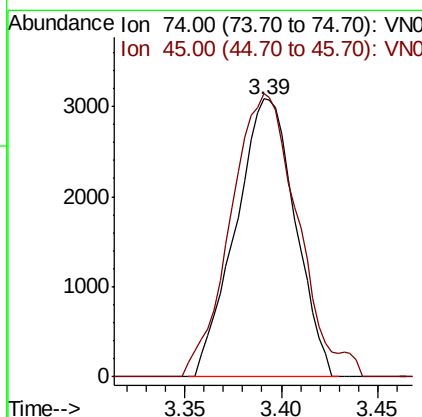
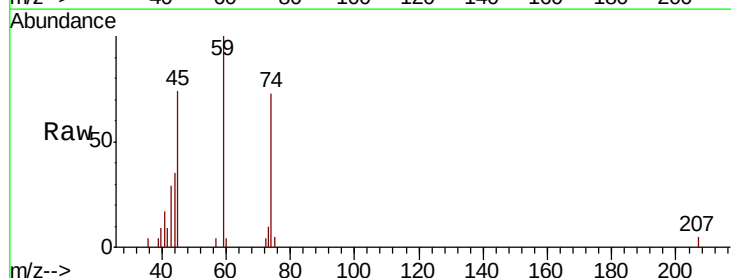
10/18/2019 12:42:34 AM

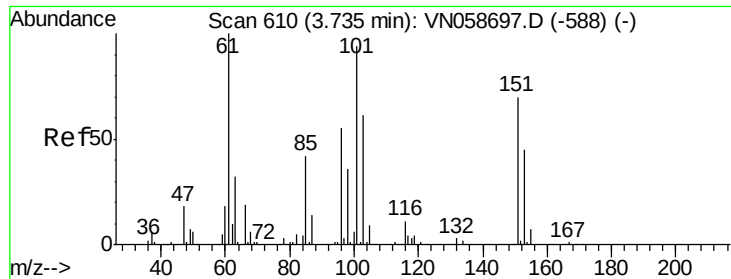


#8

Diethyl Ether
 Concen: 2.681 ug/l
 RT: 3.39 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VN058775.D
 Acq: 15 Oct 2019 12:36

Tgt Ion	Ratio	Lower	Upper
74	100		
45	114.8	51.3	154.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.954 ug/l

RT: 3.74 min Scan# 612

Delta R.T. 0.01 min

Lab File: VN058775.D

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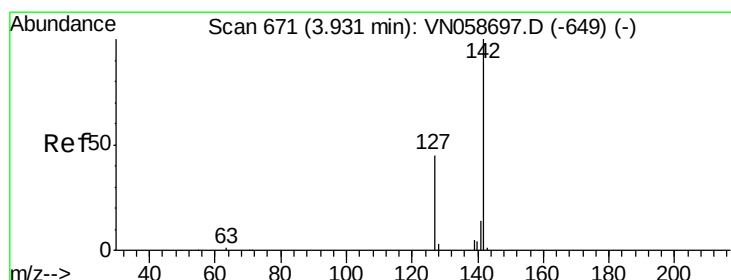
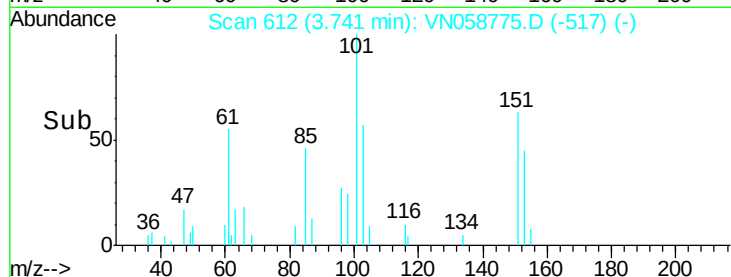
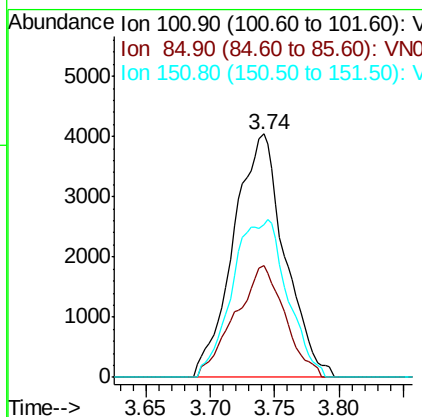
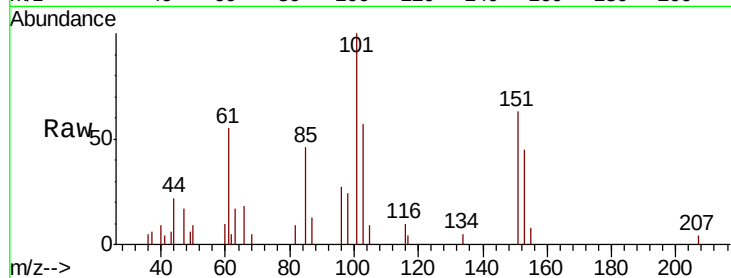
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:	101	Resp:	11216
Ion Ratio	Lower	Upper	
101	100		
85	44.4	37.0	55.6
151	69.2	61.8	92.6

Manual Integrations
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MMDadoda

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#10

Methyl Iodide

Concen: 2.560 ug/l

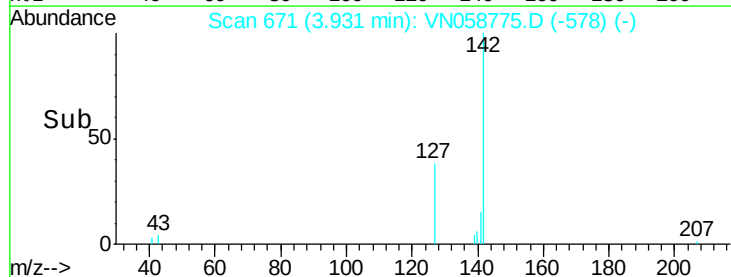
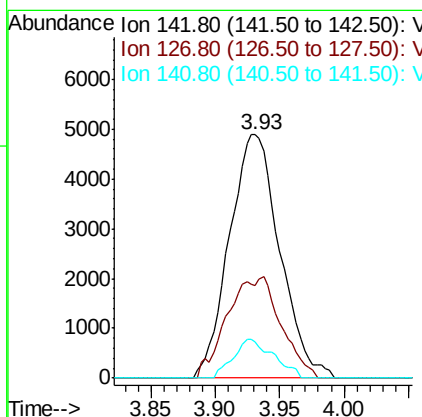
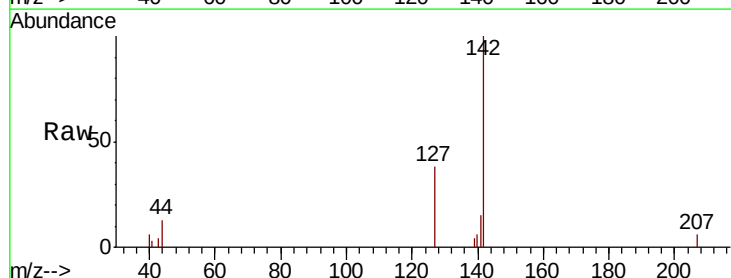
RT: 3.93 min Scan# 671

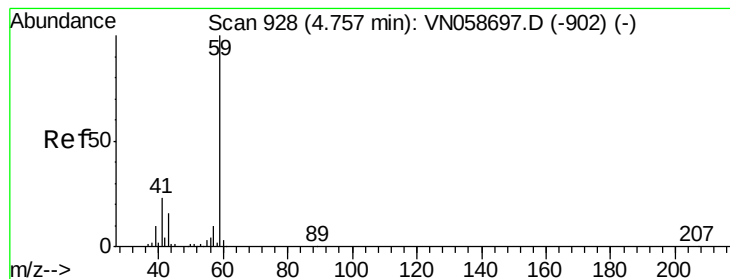
Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Tgt Ion:	142	Resp:	13263
Ion Ratio	Lower	Upper	
142	100		
127	24.3	36.4	54.6#
141	12.8	11.1	16.7





#11

Tert butyl alcohol
Concen: 14.999 ug/l
RT: 4.76 min Scan# 928
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

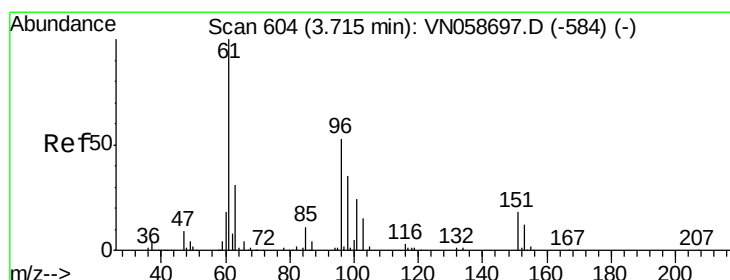
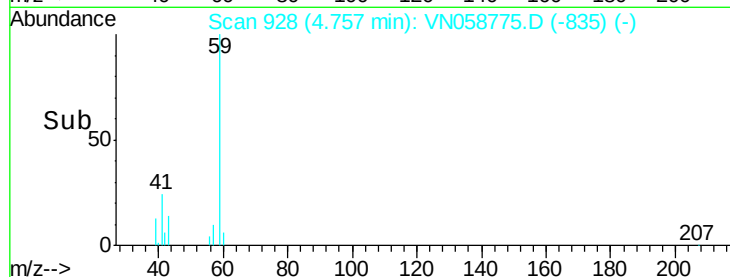
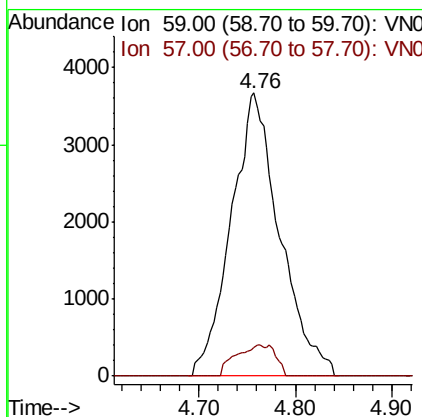
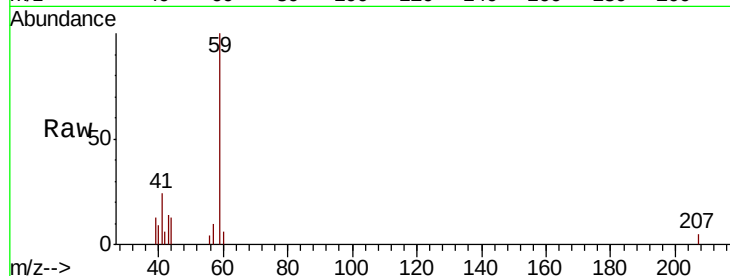
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
59	100		
57	8.9	8.4	12.6

Manual Integrations
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MMDadoda

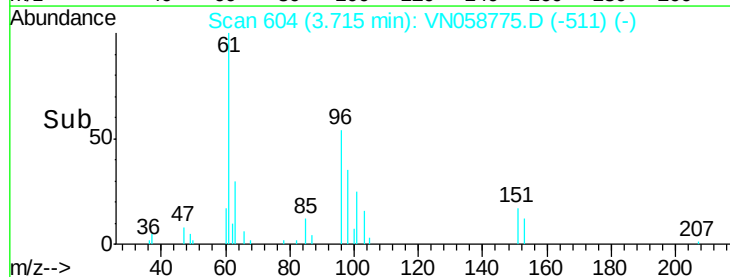
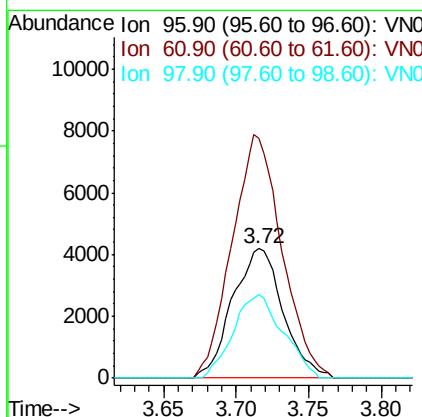
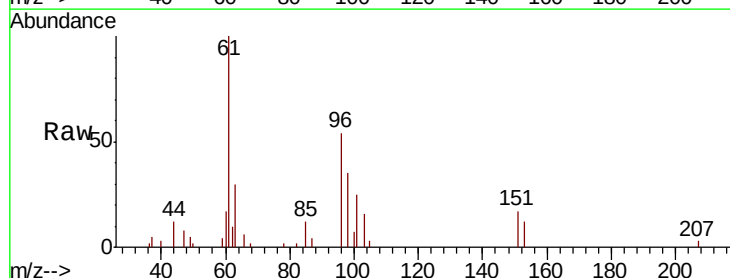
10/18/2019 12:42:34 AM

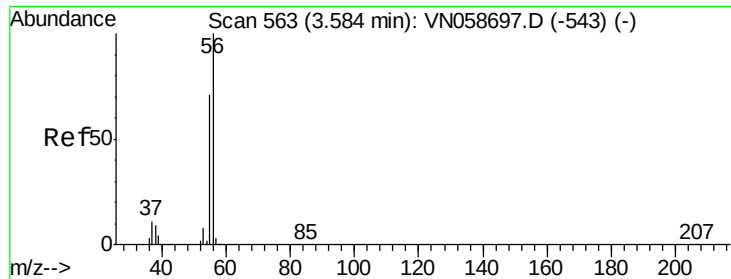


#12

1,1-Dichloroethene
Concen: 2.802 ug/l
RT: 3.72 min Scan# 604
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

Tgt Ion	Ratio	Lower	Upper
96	100		
61	185.2	151.3	226.9
98	64.5	52.6	78.8





#13

Acrolein

Concen: 11.572 ug/l

RT: 3.59 min Scan# 564

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 56 Resp: 7960

Ion Ratio Lower Upper

56 100

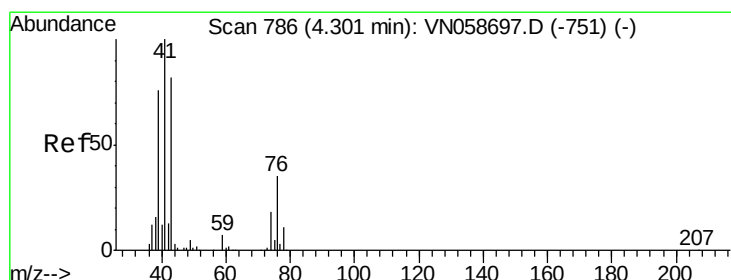
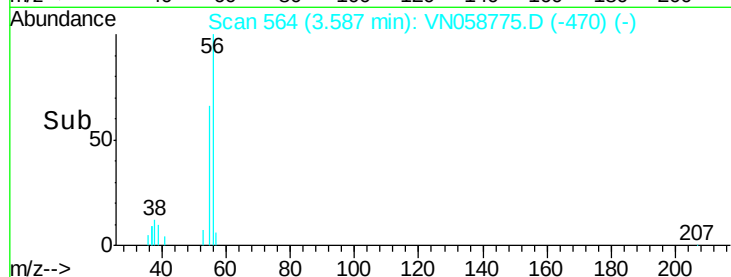
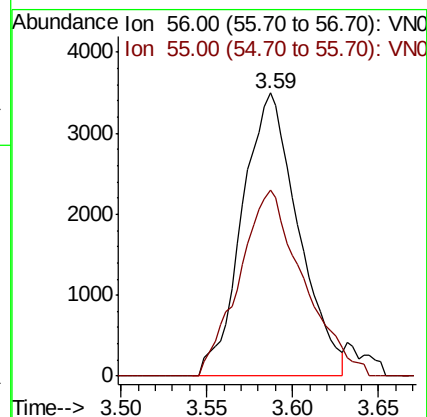
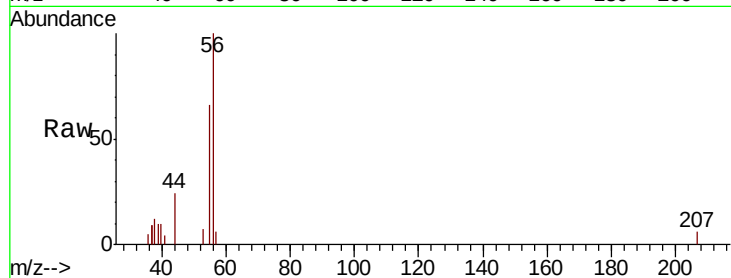
55 74.9 56.7 85.1

Manual Integrations

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MMDadoda

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#14

Allyl chloride

Concen: 2.874 ug/l

RT: 4.30 min Scan# 787

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

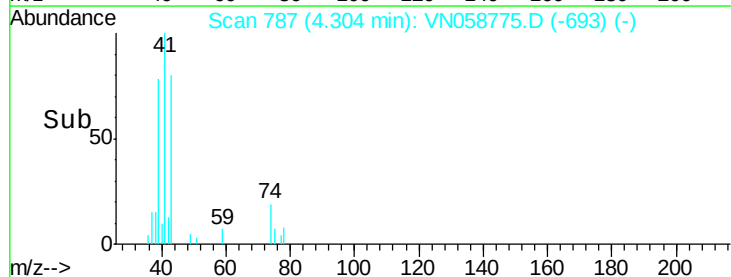
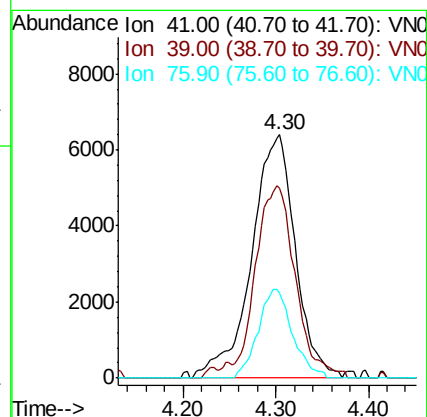
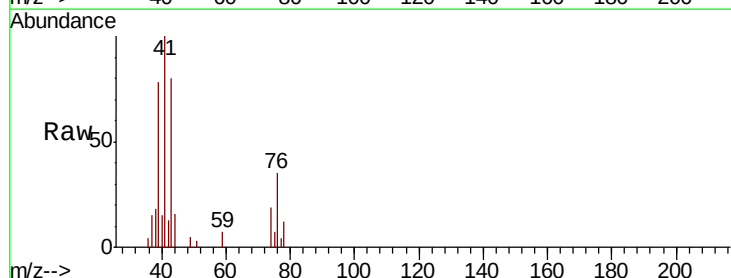
Tgt Ion: 41 Resp: 21009

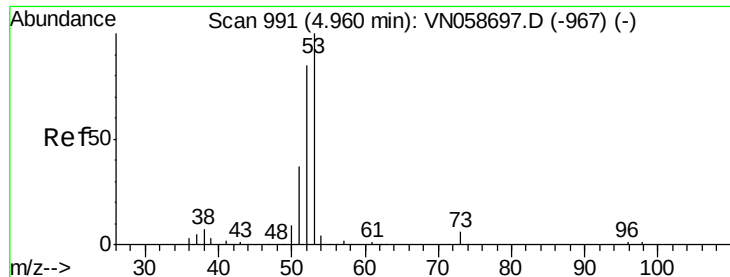
Ion Ratio Lower Upper

41 100

39 71.4 57.2 85.8

76 28.6 25.0 37.6





#15

Acrylonitrile

Concen: 13.456 ug/l

RT: 4.96 min Scan# 992

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

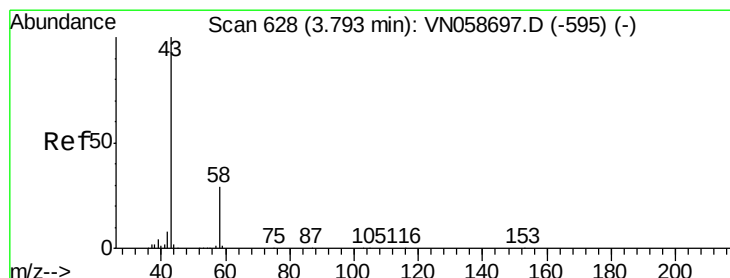
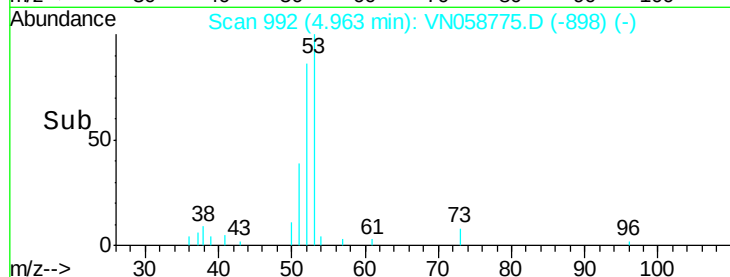
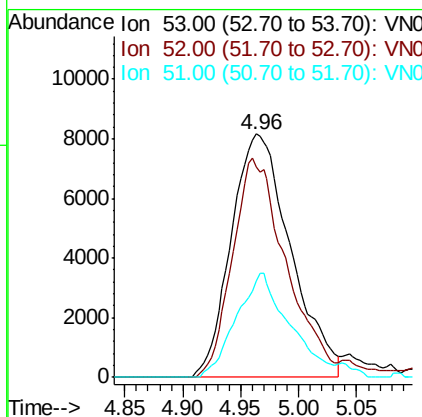
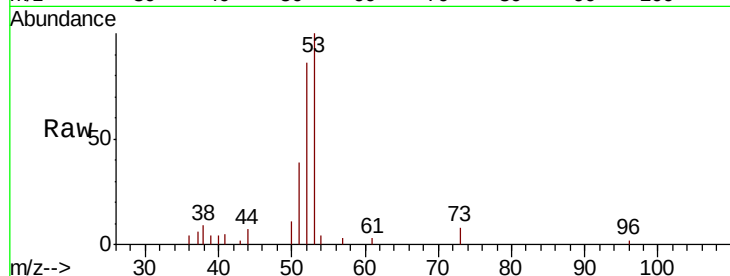
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:	53	Resp:	29024
Ion	Ratio	Lower	Upper
53	100		
52	81.3	66.2	99.2
51	38.3	29.4	44.2

Manual Integrations
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#16

Acetone

Concen: 13.951 ug/l

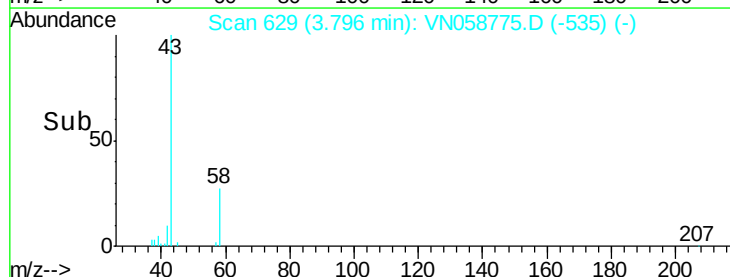
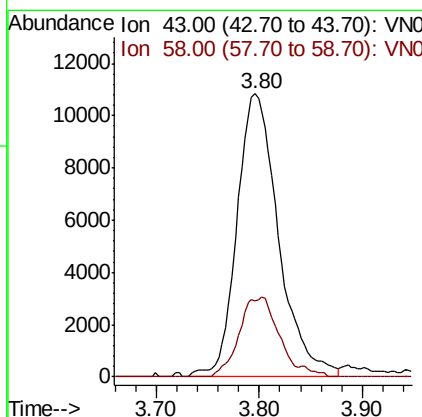
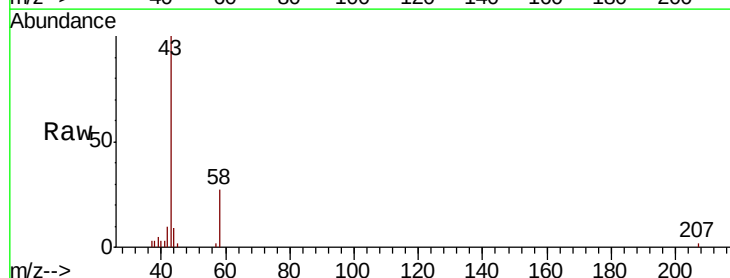
RT: 3.80 min Scan# 629

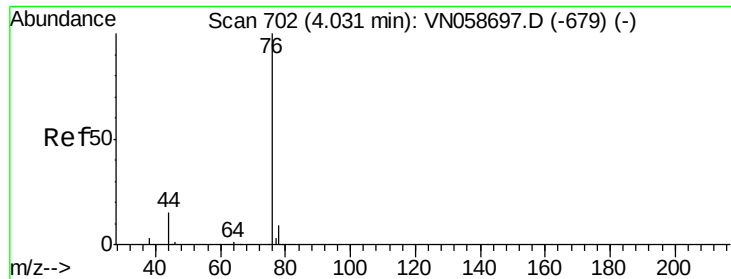
Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Tgt Ion:	43	Resp:	30503
Ion	Ratio	Lower	Upper
43	100		
58	26.9	23.3	34.9





#17

Carbon Disulfide

Concen: 2.765 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 76 Resp: 32019

Ion Ratio Lower Upper

76 100

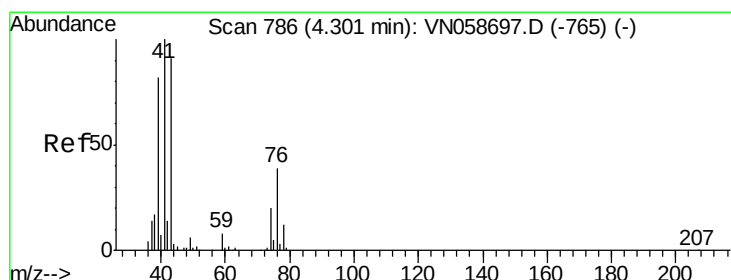
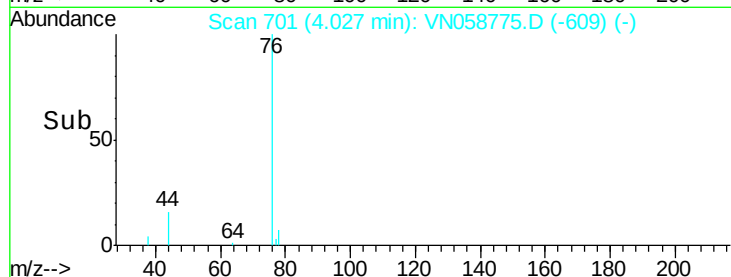
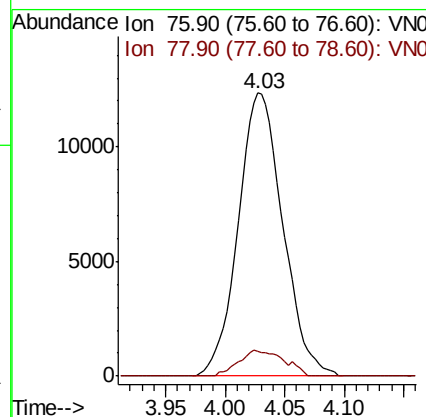
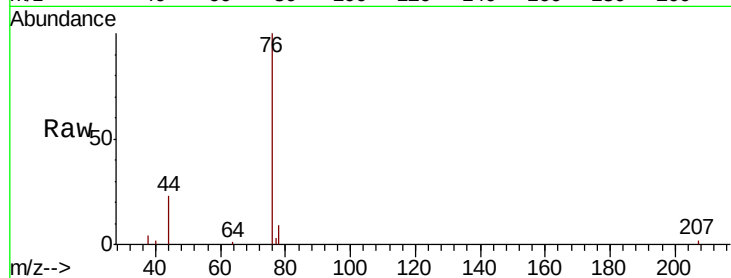
78 8.6 7.1 10.7

Manual Integrations

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#18

Methyl Acetate

Concen: 3.117 ug/l

RT: 4.30 min Scan# 785

Delta R.T. -0.00 min

Lab File: VN058775.D

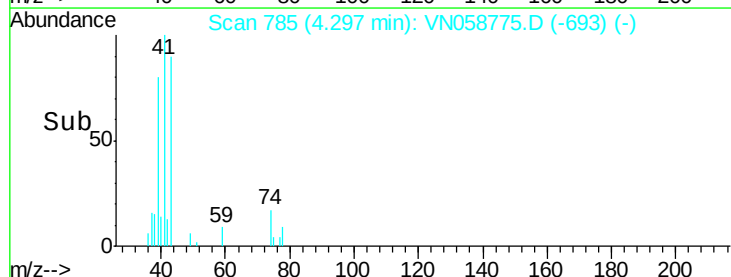
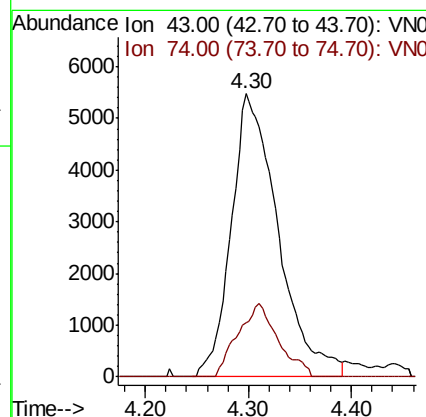
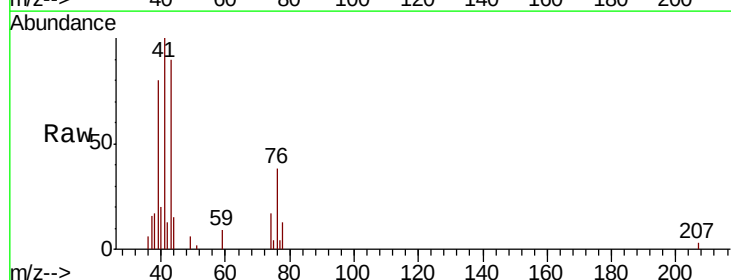
Acq: 15 Oct 2019 12:36

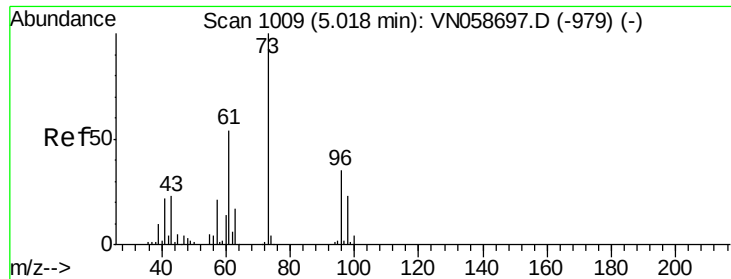
Tgt Ion: 43 Resp: 17287

Ion Ratio Lower Upper

43 100

74 22.3 17.2 25.8





#19
Methyl tert-butyl Ether
Concen: 2.669 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. -0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

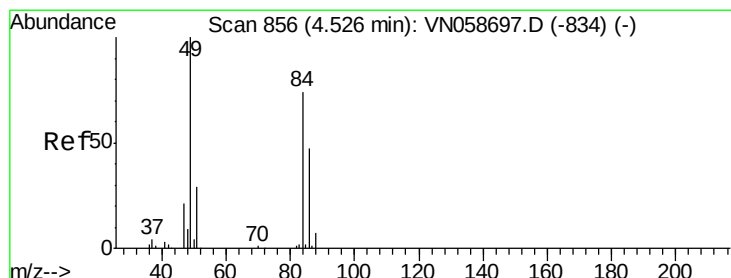
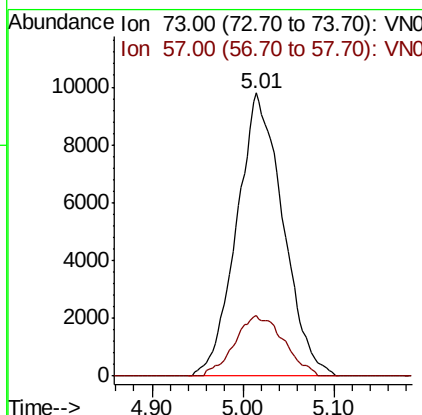
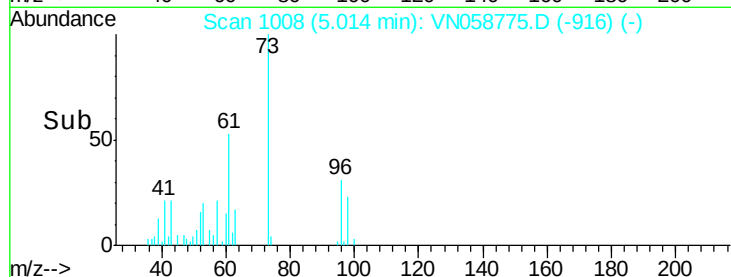
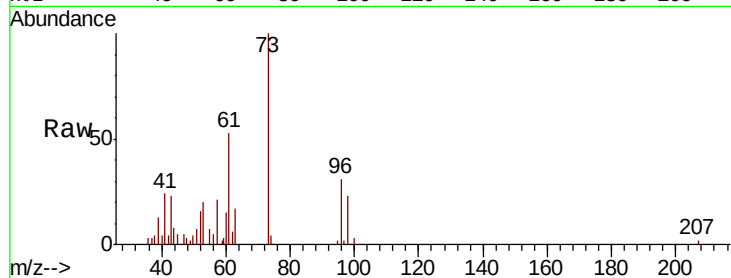
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 73 Resp: 34533
Ion Ratio Lower Upper
73 100
57 21.2 17.0 25.6

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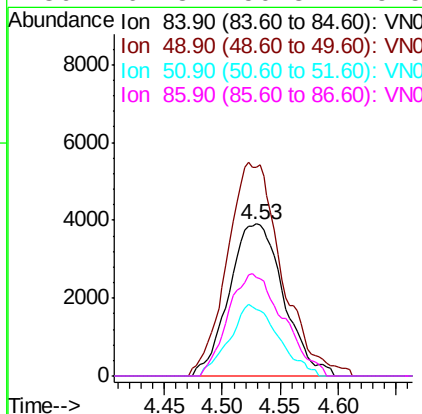
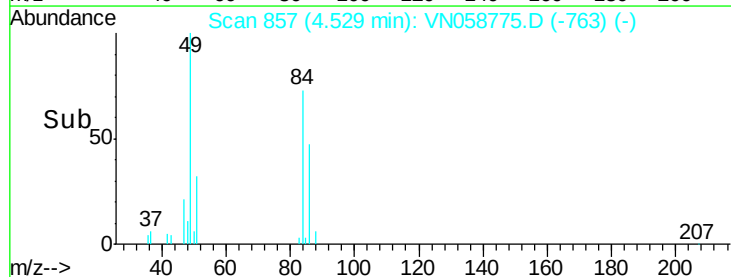
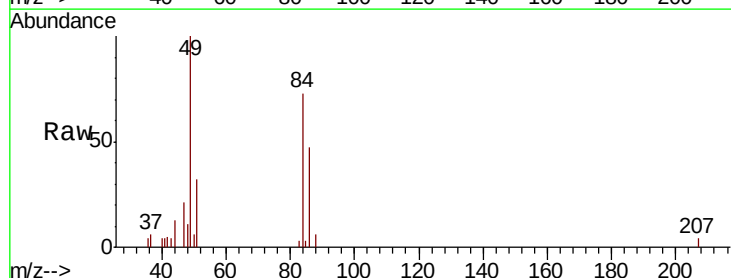
MMDadoda

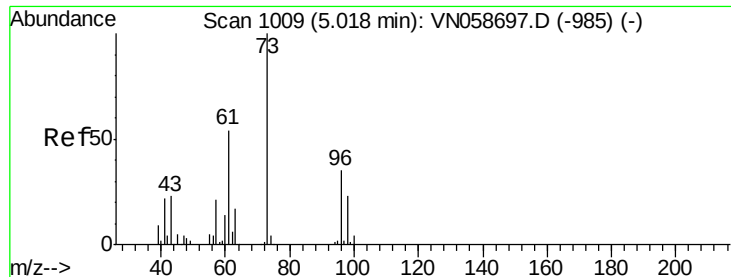
10/18/2019 12:42:34 AM



#20
Methylene Chloride
Concen: 2.782 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

Tgt Ion: 84 Resp: 12714
Ion Ratio Lower Upper
84 100
49 137.5 107.6 161.4
51 43.5 31.4 47.0
86 64.8 50.3 75.5





#21

trans-1,2-Dichloroethene

Concen: 2.656 ug/l

RT: 5.02 min Scan# 1010

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

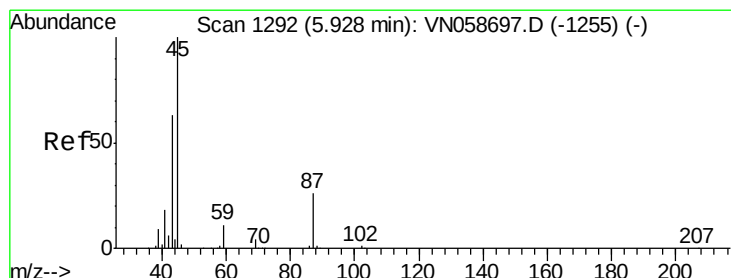
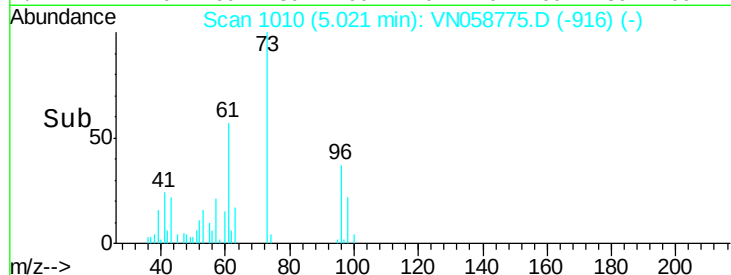
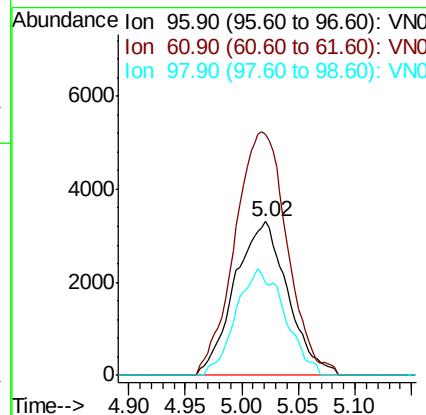
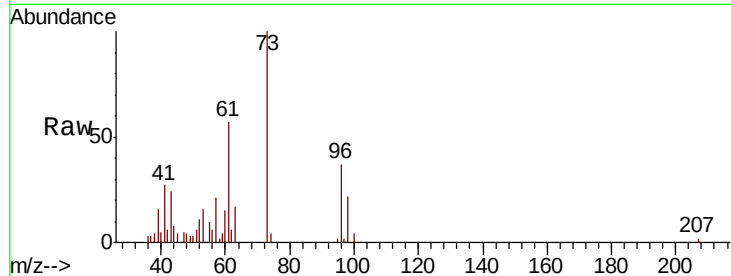
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:	96	Resp:	10765
Ion	Ratio	Lower	Upper
96	100		
61	156.3	123.6	185.4
98	60.4	52.1	78.1

Manual Integrations
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#22

Diisopropyl ether

Concen: 2.664 ug/l

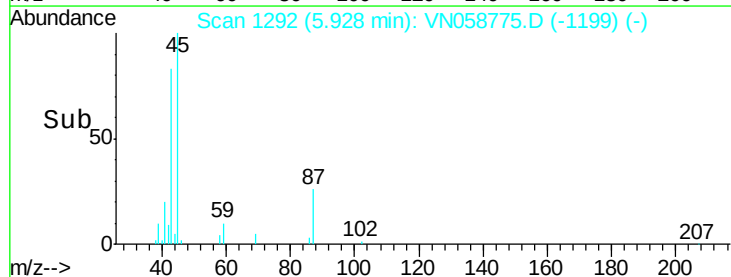
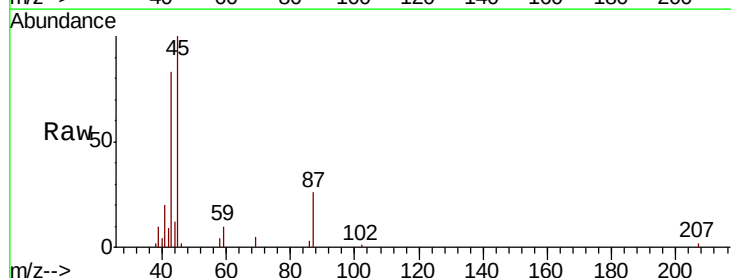
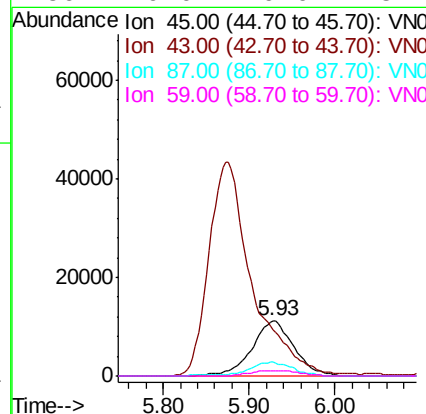
RT: 5.93 min Scan# 1292

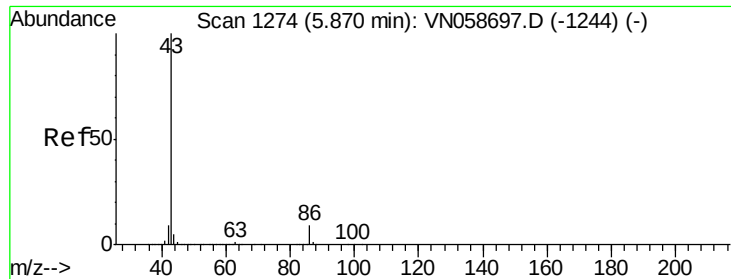
Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Tgt Ion:	45	Resp:	37871
Ion	Ratio	Lower	Upper
45	100		
43	78.2	50.6	75.8#
87	25.5	21.1	31.7
59	10.0	9.0	13.4





#23

Vinyl Acetate

Concen: 13.234 ug/l

RT: 5.87 min Scan# 1275

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 43 Resp: 151803

Ion Ratio Lower Upper

43 100

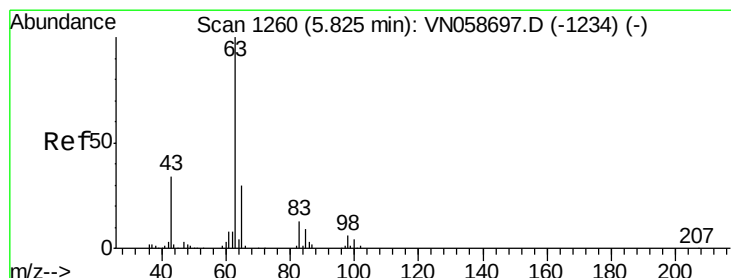
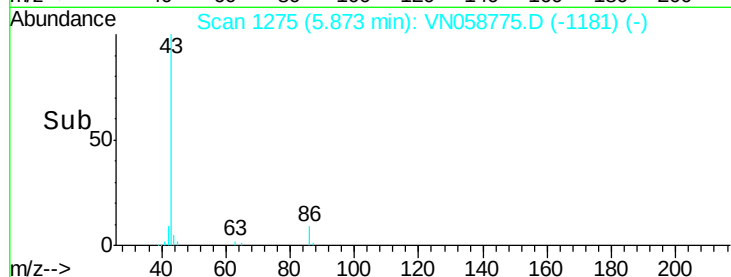
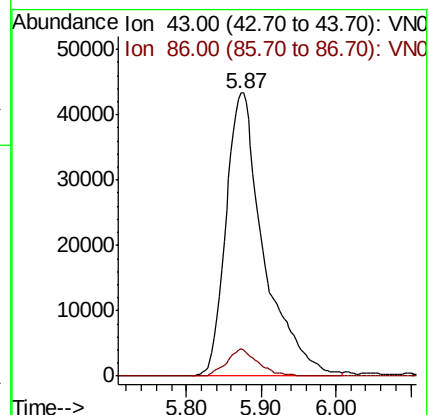
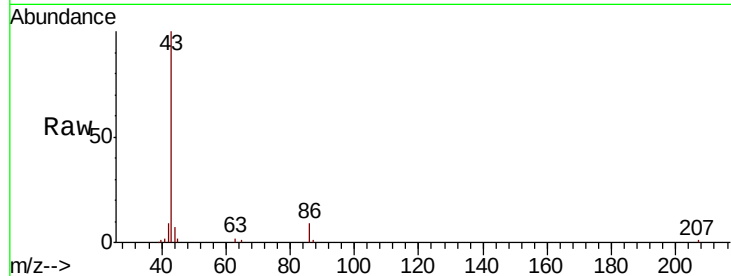
86 9.5 7.4 11.0

Manual Integrations

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MMDadoda

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#24

1,1-Dichloroethane

Concen: 2.758 ug/l

RT: 5.83 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

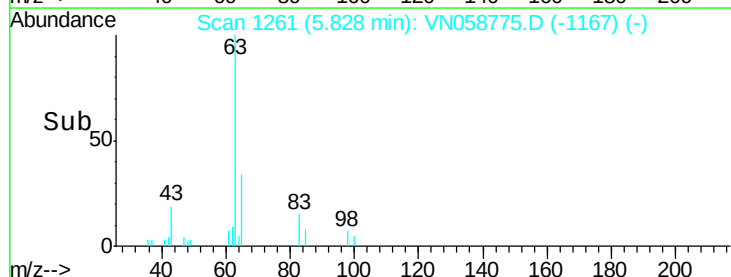
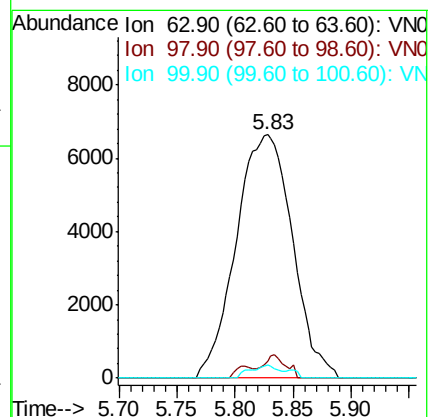
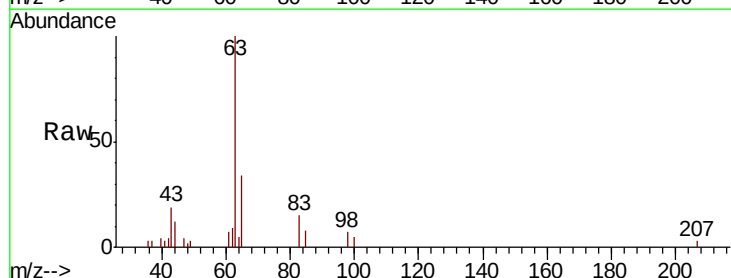
Tgt Ion: 63 Resp: 22330

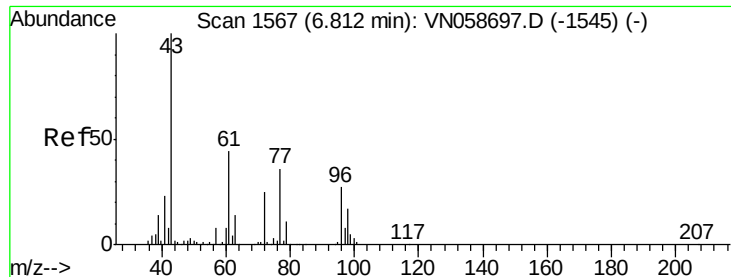
Ion Ratio Lower Upper

63 100

98 6.9 2.9 8.6

100 5.2 1.8 5.5





#25
2-Butanone
Concen: 13.314 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. 0.01 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

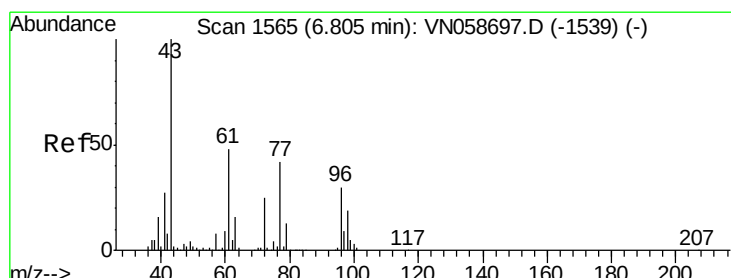
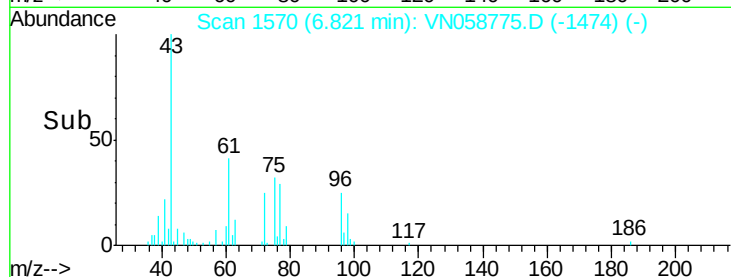
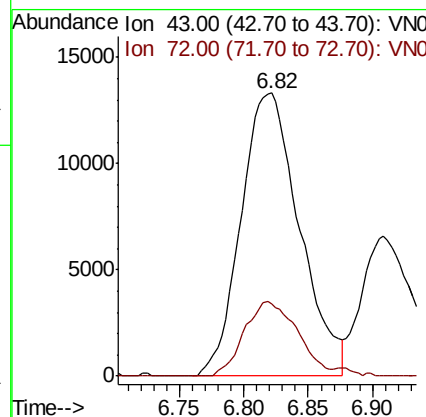
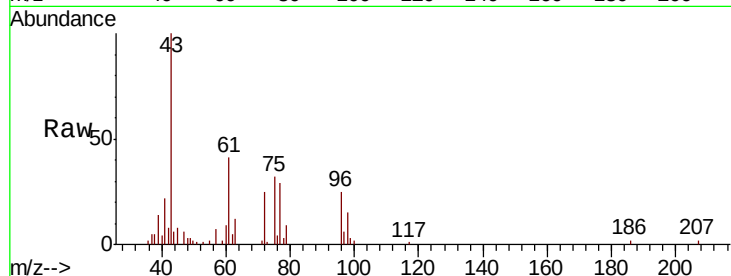
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 43 Resp: 42076
Ion Ratio Lower Upper
43 100
72 25.3 20.2 30.2

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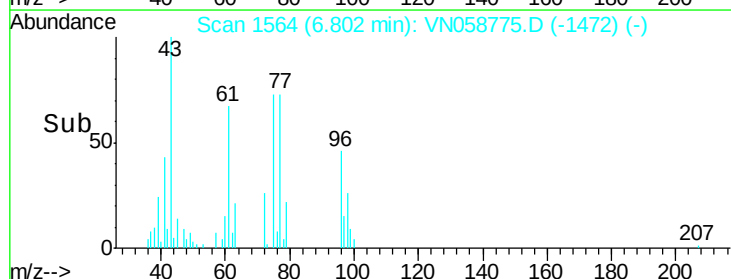
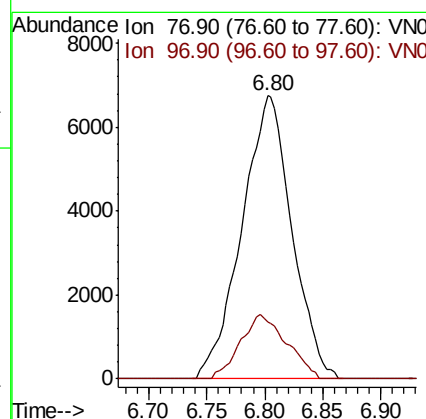
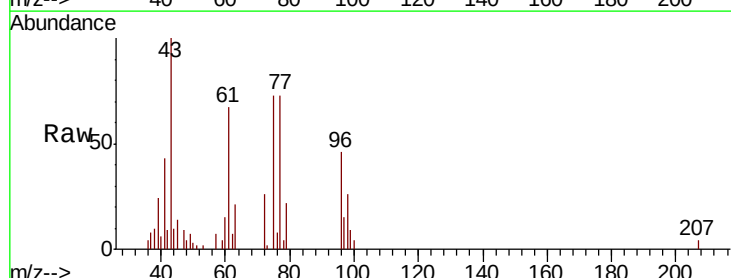
MMDadoda

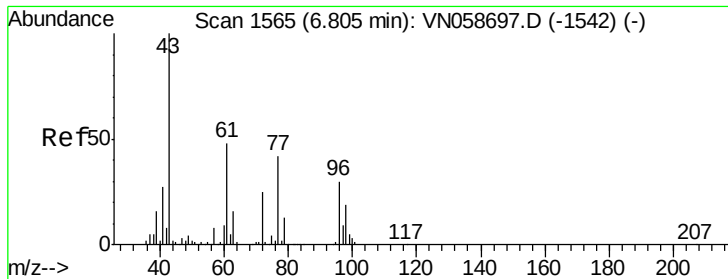
10/18/2019 12:42:34 AM



#26
2,2-Dichloropropane
Concen: 2.741 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

Tgt Ion: 77 Resp: 20258
Ion Ratio Lower Upper
77 100
97 20.9 10.7 31.9





#27

cis-1,2-Dichloroethene

Concen: 2.684 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

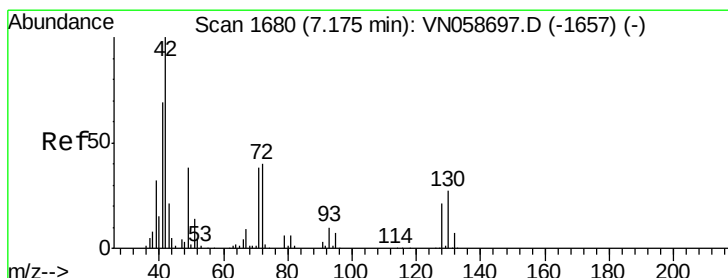
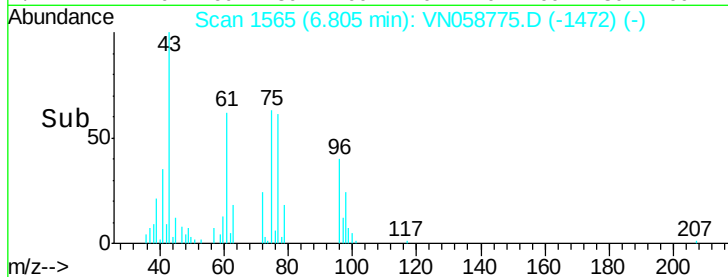
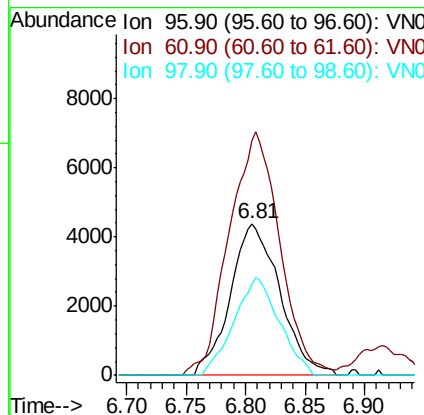
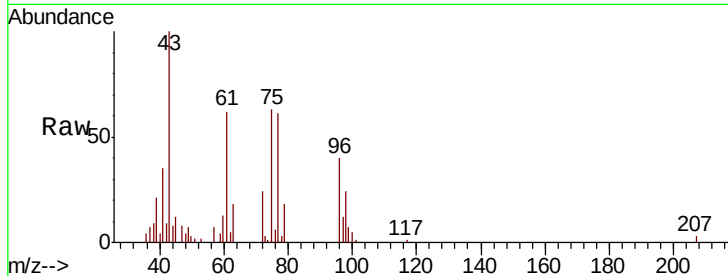
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:	96	Resp:	12685
Ion	Ratio	Lower	Upper
96	100		
61	163.3	0.0	324.8
98	58.8	0.0	129.2

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#28

Bromochloromethane

Concen: 2.774 ug/l

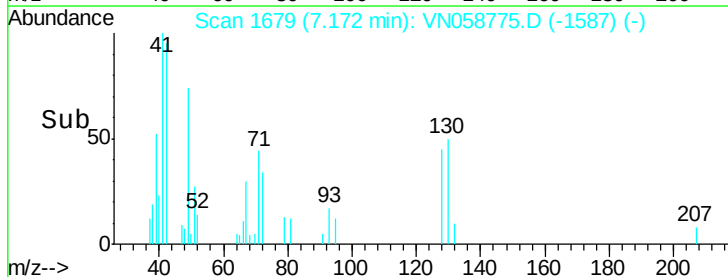
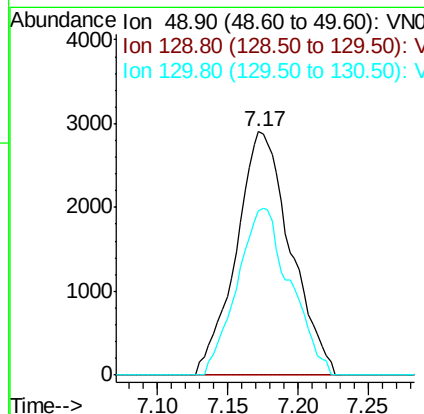
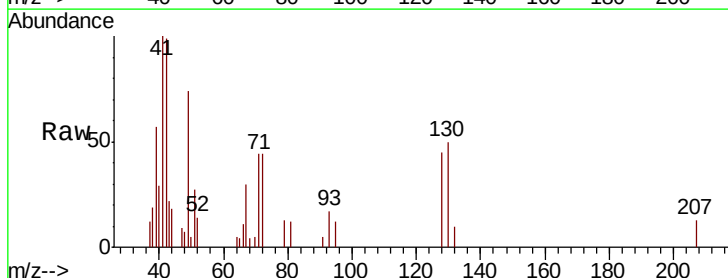
RT: 7.17 min Scan# 1679

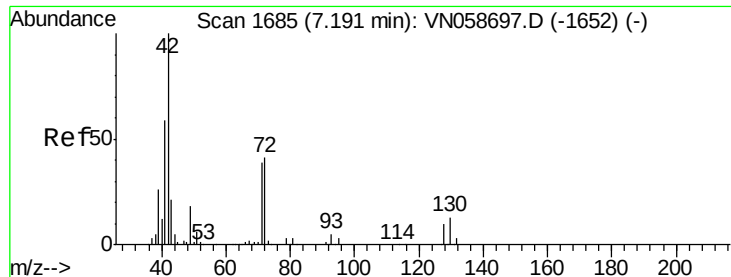
Delta R.T. -0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Tgt Ion:	49	Resp:	7812
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	66.9	55.0	82.4





#29
Tetrahydrofuran
Concen: 13.463 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

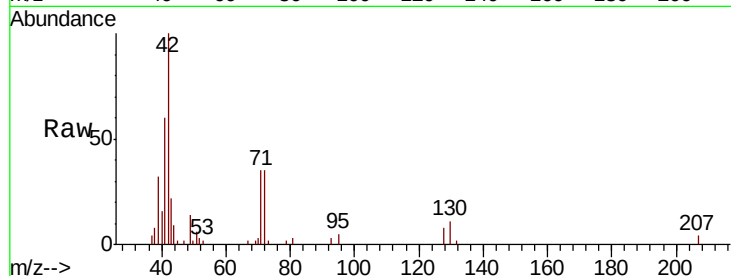
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
42	100		
72	19.3	32.8	49.2#
71	38.0	31.1	46.7

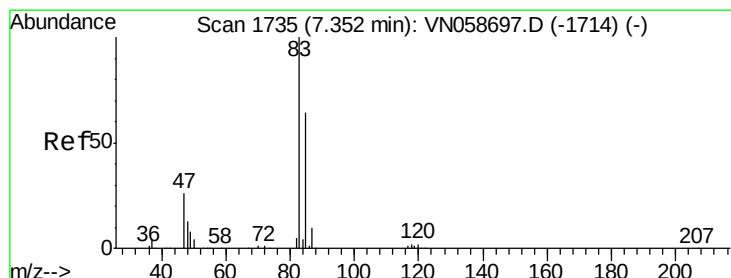
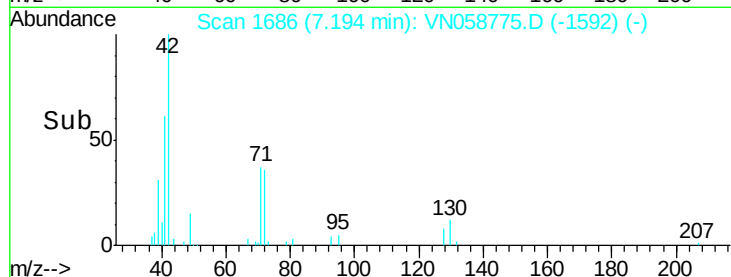
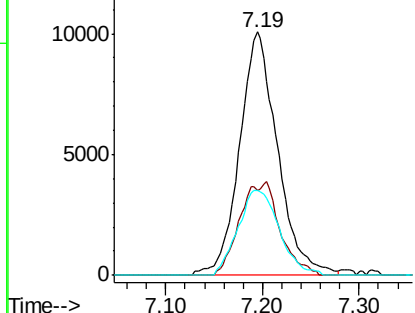
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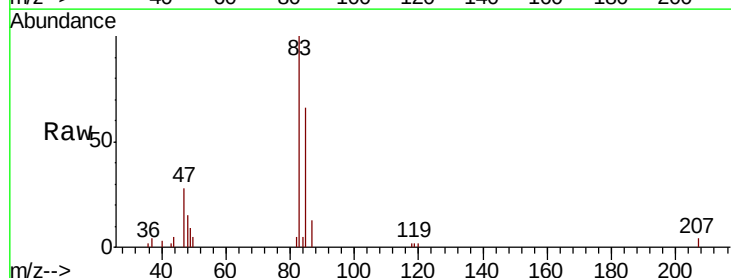


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

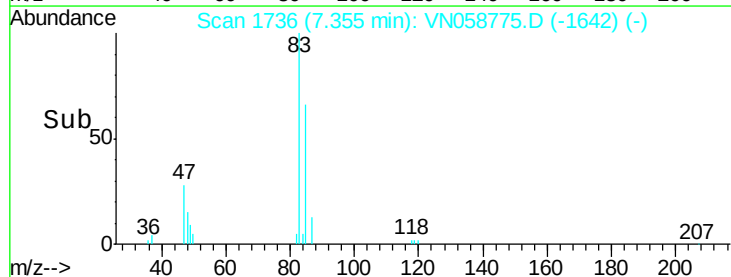
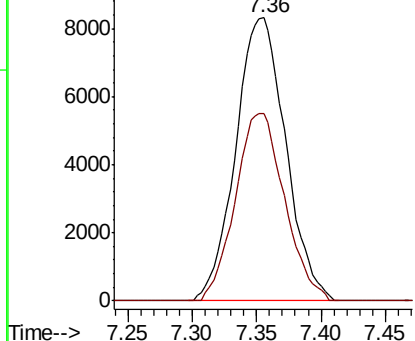


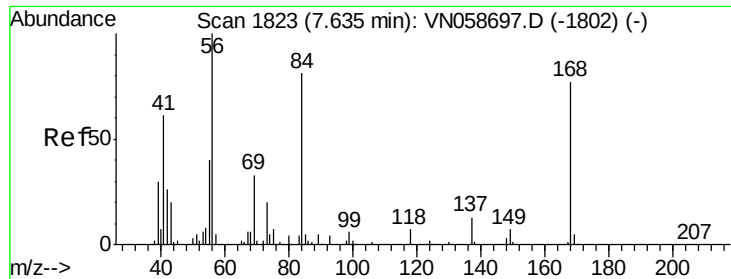
#30
Chloroform
Concen: 2.762 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.4	51.0	76.6



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0





#31
Cyclohexane
Concen: 3.492 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

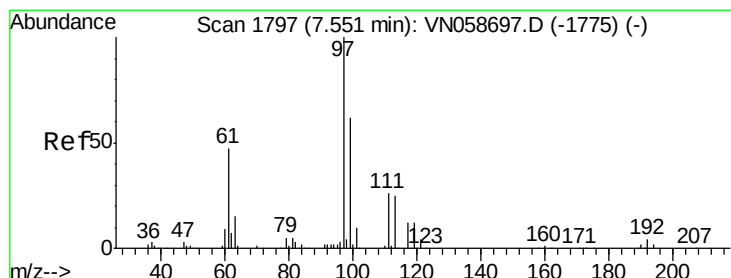
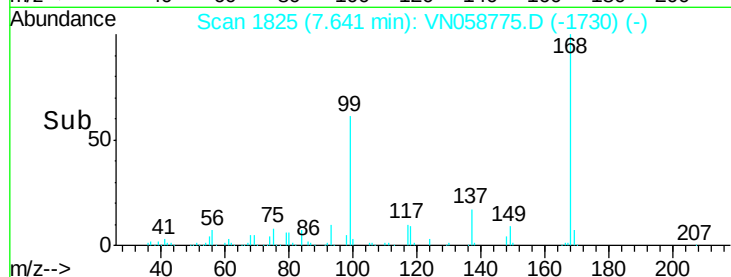
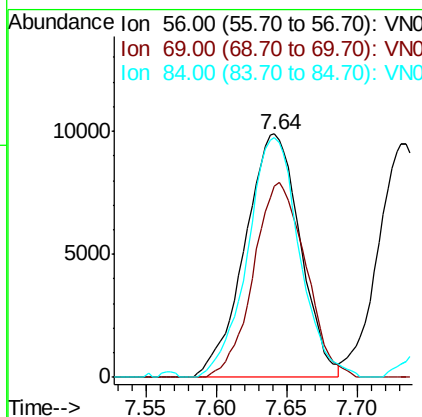
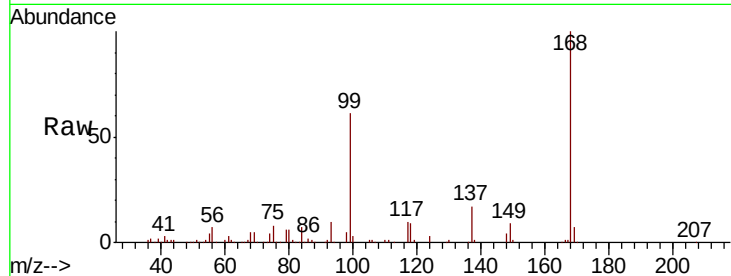
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
56	100		
69	78.7	26.2	39.4#
84	98.7	64.9	97.3#

Manual Integrations
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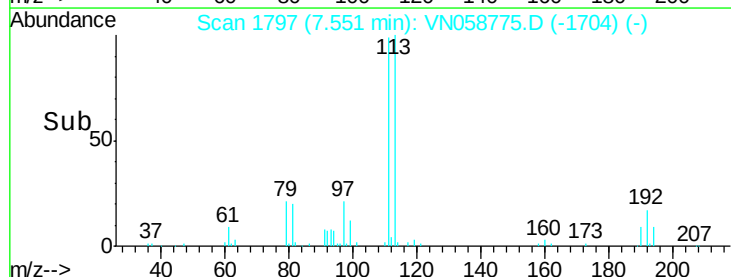
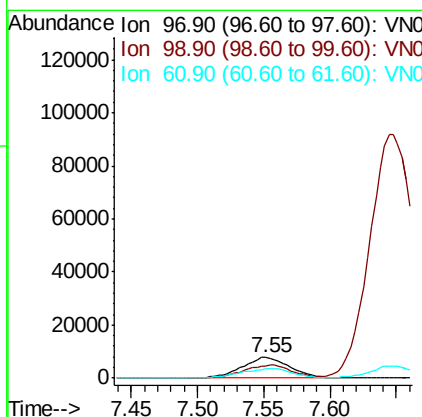
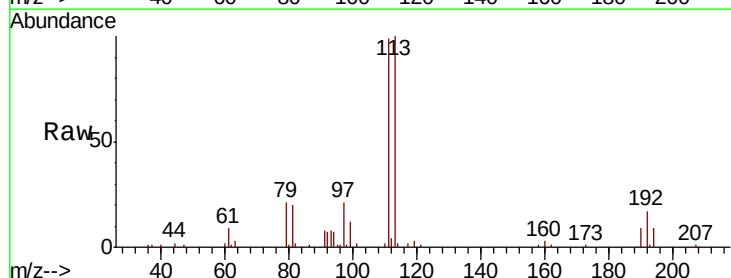
MMDadoda

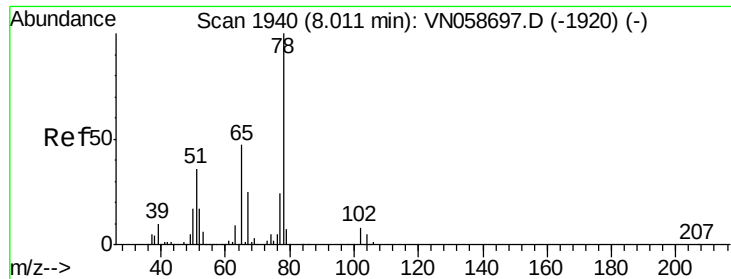
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#32
1,1,1-Trichloroethane
Concen: 2.806 ug/l
RT: 7.55 min Scan# 1797
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.1	50.8	76.2
61	49.7	38.1	57.1





#33
 1,2-Dichloroethane-d4
 Concen: 53.820 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. -0.00 min
 Lab File: VN058775.D
 Acq: 15 Oct 2019 12:36

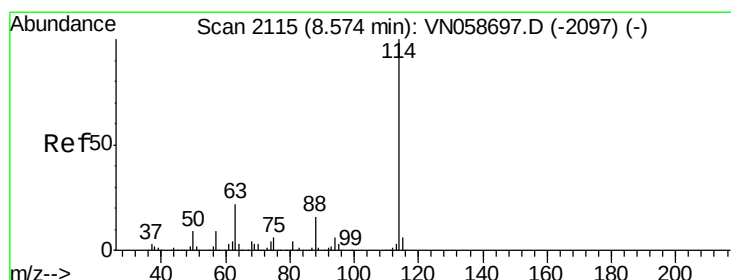
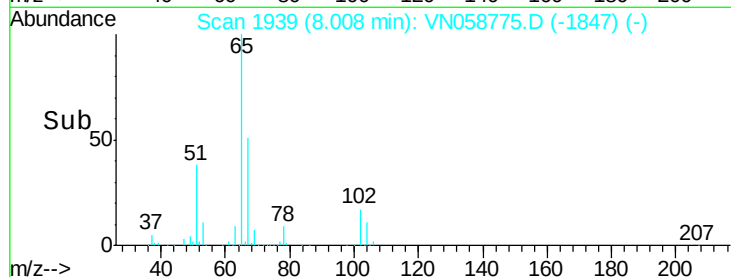
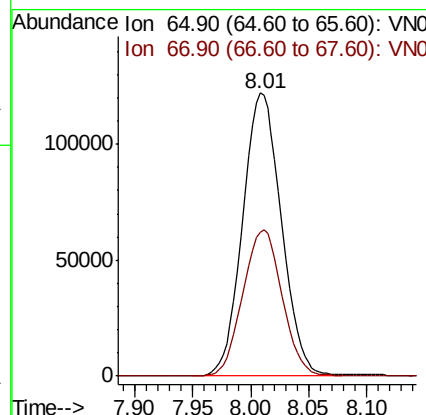
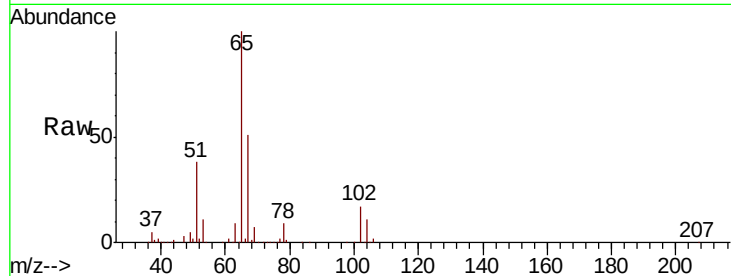
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Resp	Lower	Upper
65	100	284245		
67	52.6	0.0	103.8	

Manual Integrations
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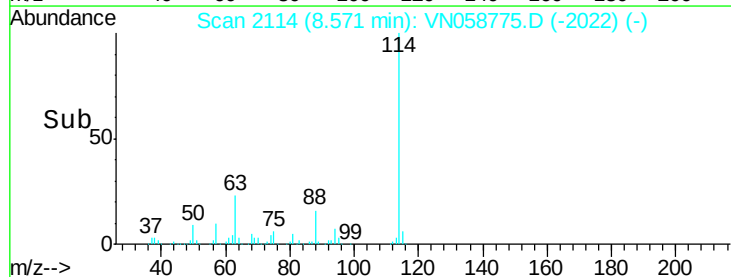
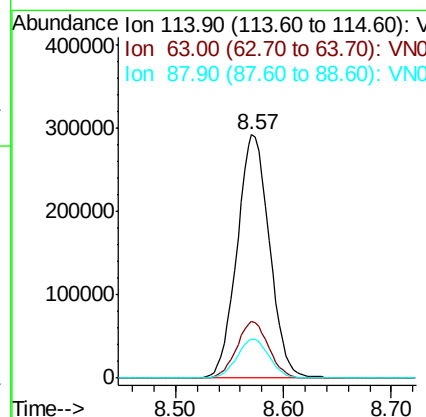
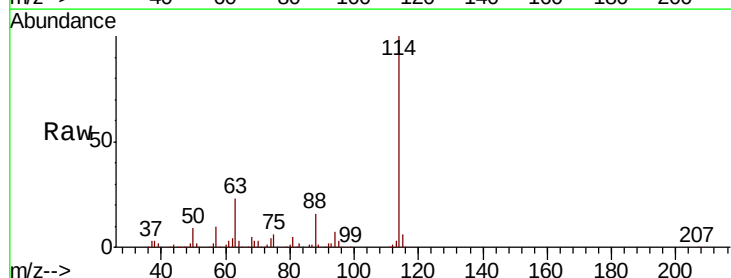
MMDadoda

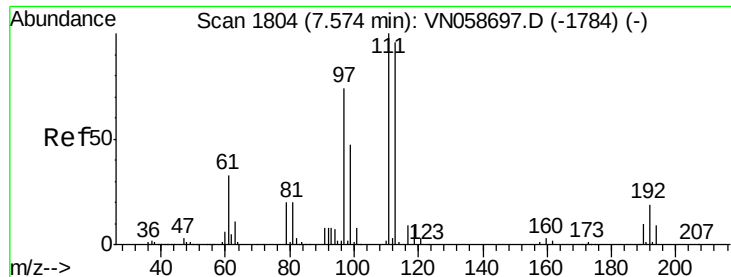
10/18/2019 12:42:34 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. -0.00 min
 Lab File: VN058775.D
 Acq: 15 Oct 2019 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	611395		
63	23.2	0.0	43.8	
88	15.9	0.0	32.0	





#35
 Dibromofluoromethane
 Concen: 54.151 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VN058775.D
 Acq: 15 Oct 2019 12:36

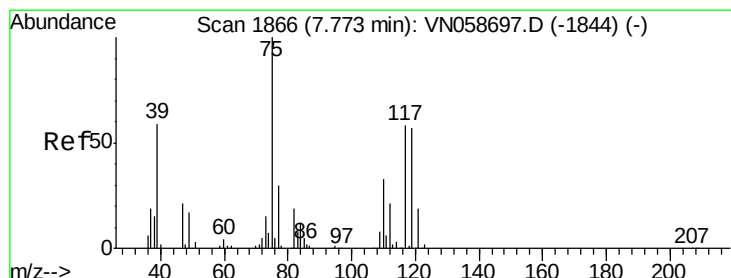
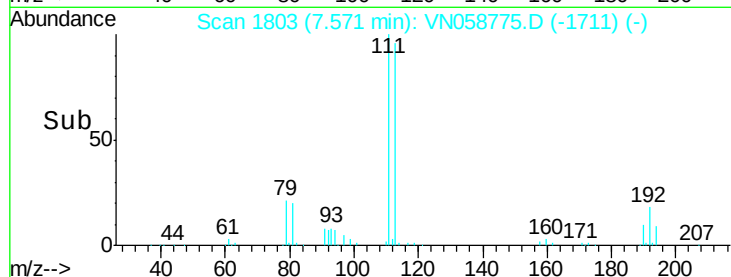
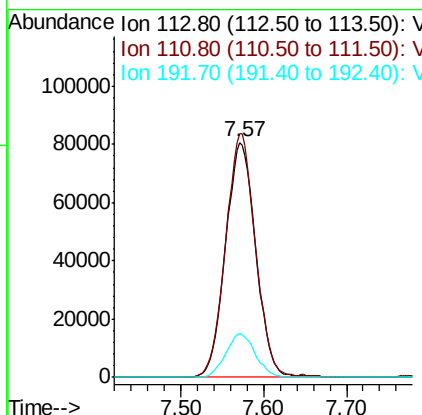
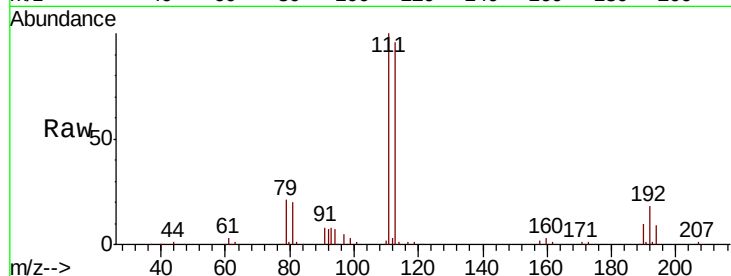
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Resp	Lower	Upper
113	100	204498		
111	102.0	82.3	123.5	
192	18.2	15.0	22.6	

Manual Integrations
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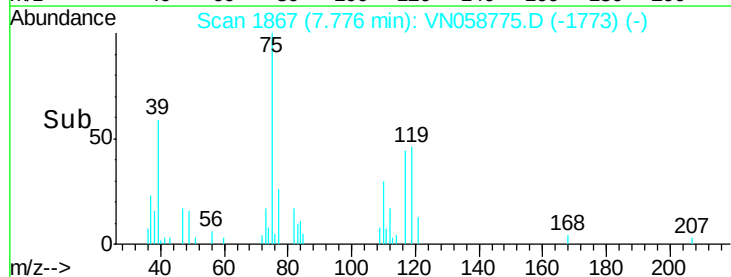
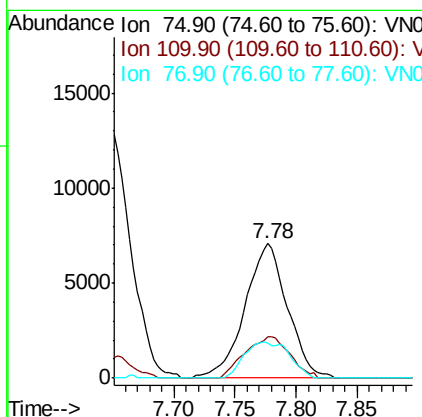
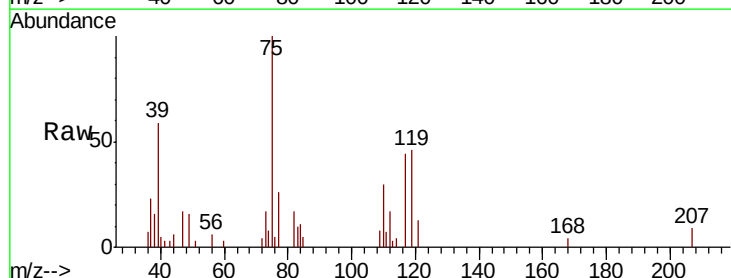
MMDadoda

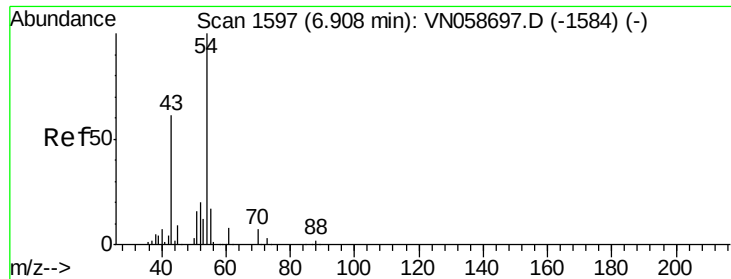
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#36
 1,1-Dichloropropene
 Concen: 2.752 ug/l
 RT: 7.78 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN058775.D
 Acq: 15 Oct 2019 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	17013		
110	32.6	16.6	49.8	
77	28.7	24.6	37.0	





#37
Ethyl Acetate
Concen: 2.251 ug/l
RT: 6.91 min Scan# 1597
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

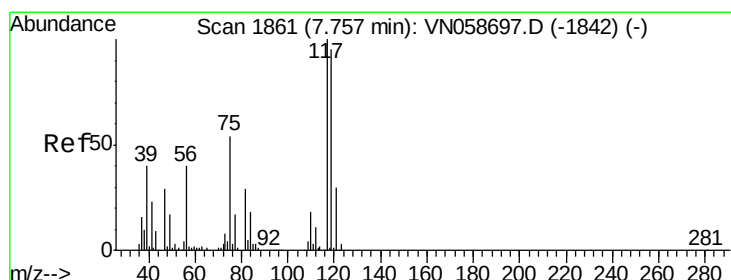
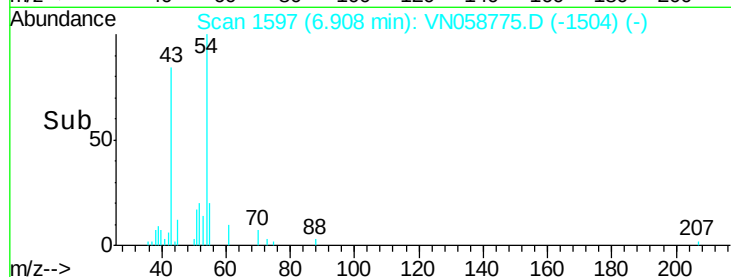
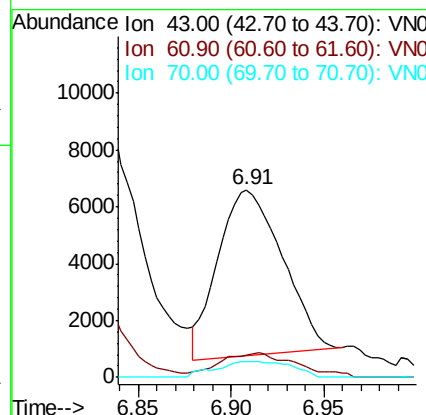
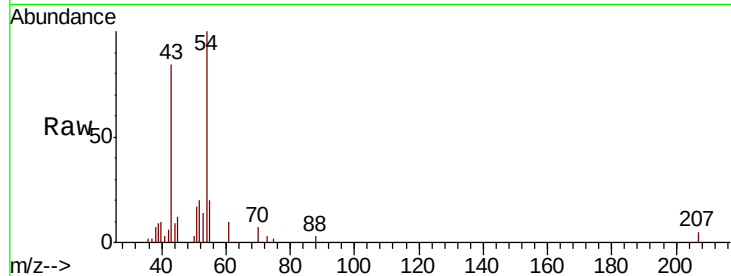
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	43	61	70
Resp	14074		
Ratio	100	18.0	11.3
Lower		11.3	7.2
Upper		16.9#	10.8#

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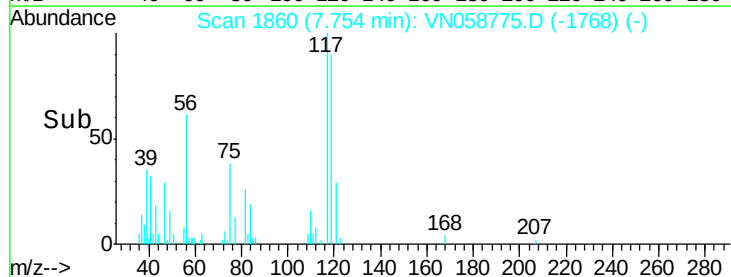
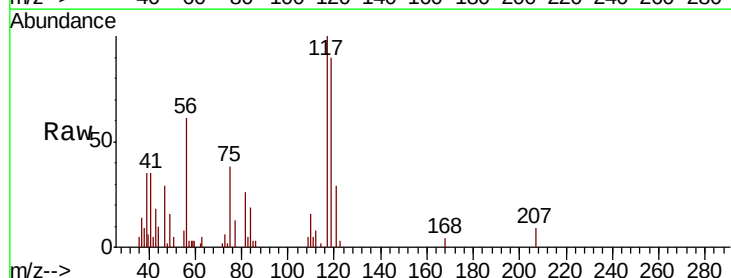
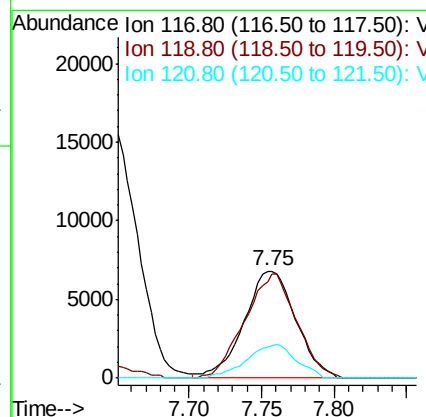
MMDadoda

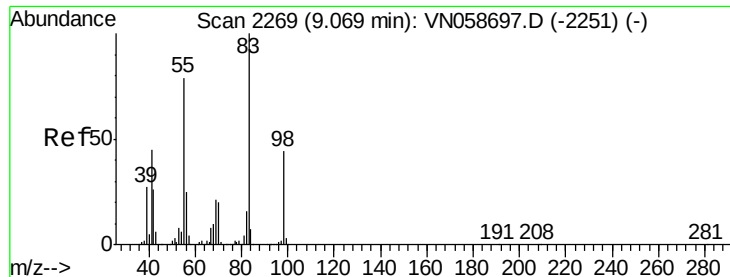
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#38
Carbon Tetrachloride
Concen: 2.799 ug/l
RT: 7.75 min Scan# 1860
Delta R.T. -0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

Tgt Ion	117	119	121
Resp	16861		
Ratio	100	90.4	28.6
Lower		75.7	23.9
Upper		113.5	35.9





#39
Methylvlcyclohexane
Concen: 2.428 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

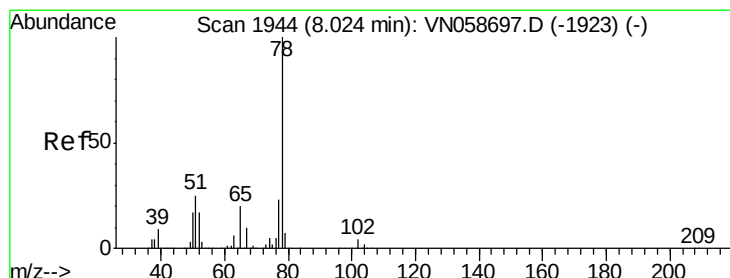
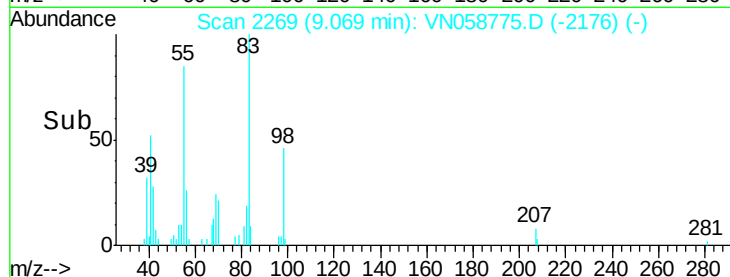
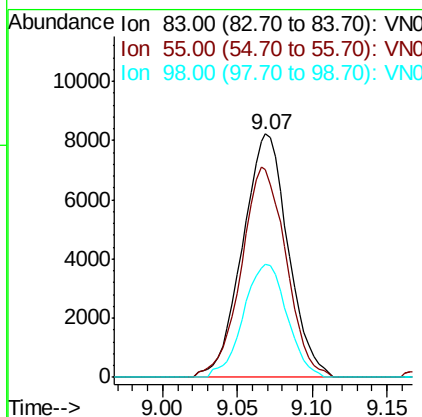
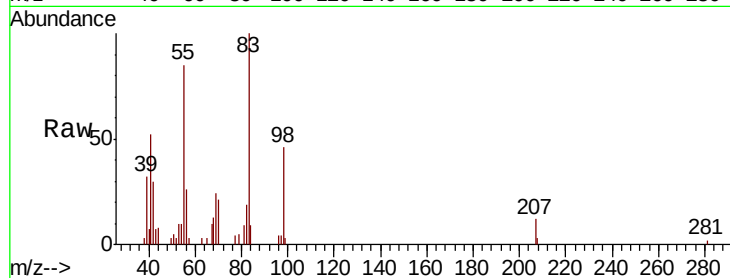
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	83	Resp	17414
Ion Ratio	Lower	Upper	
83	100		
55	85.3	63.4	95.0
98	46.3	35.1	52.7

Manual Integrations
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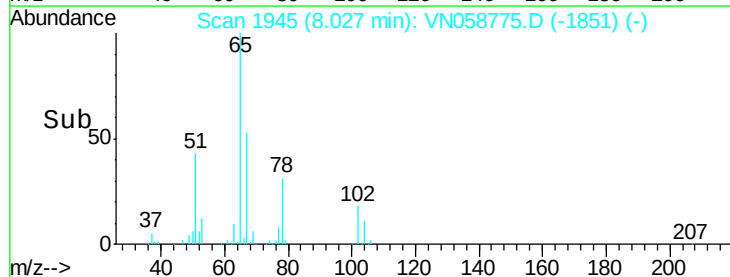
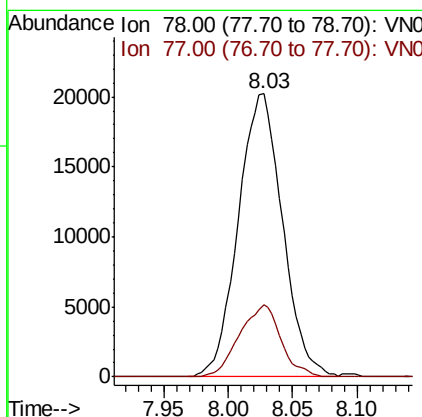
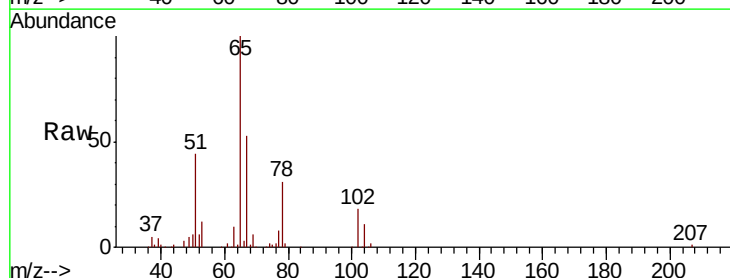
MMDadoda

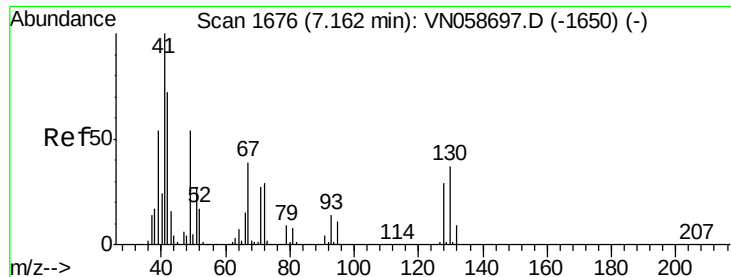
10/18/2019 12:42:34 AM



#40
Benzene
Concen: 2.716 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

Tgt Ion	78	Resp	48212
Ion Ratio	Lower	Upper	
78	100		
77	25.3	18.8	28.2





#41

Methacrylonitrile

Concen: 2.559 ug/l

RT: 7.16 min Scan# 1674

Delta R.T. -0.01 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 41 Resp: 7490

Ion Ratio Lower Upper

41 100

39 49.1 115.4 173.2#

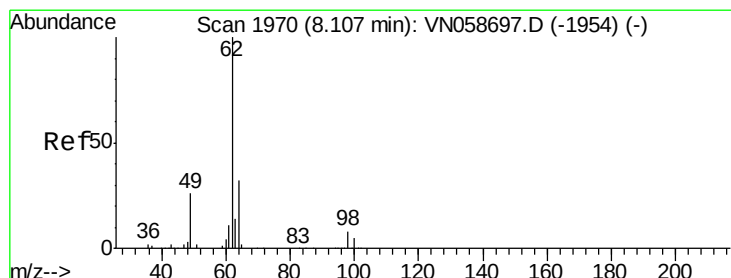
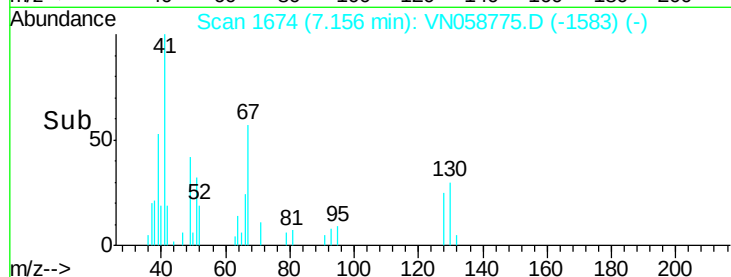
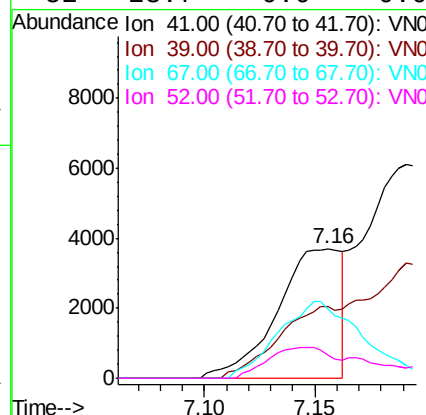
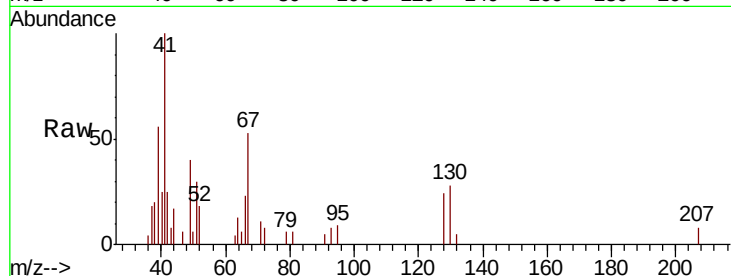
67 79.4 0.0 0.0#

52 23.7 0.0 0.0#

Manual Integrations
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10/18/2019 12:42:34 AM



#42

1,2-Dichloroethane

Concen: 2.853 ug/l

RT: 8.11 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VN058775.D

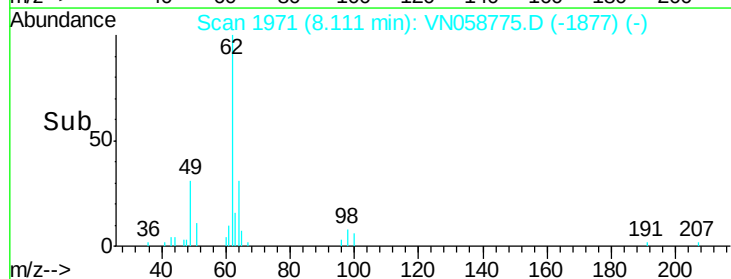
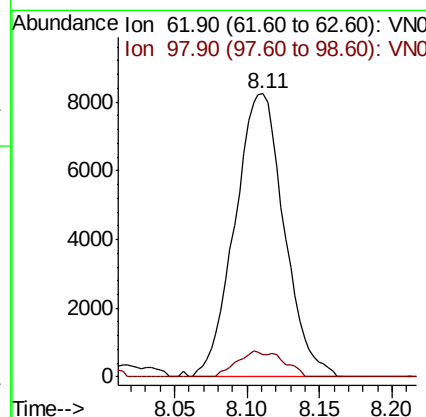
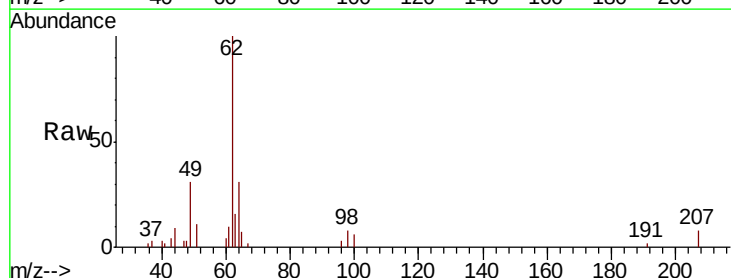
Acq: 15 Oct 2019 12:36

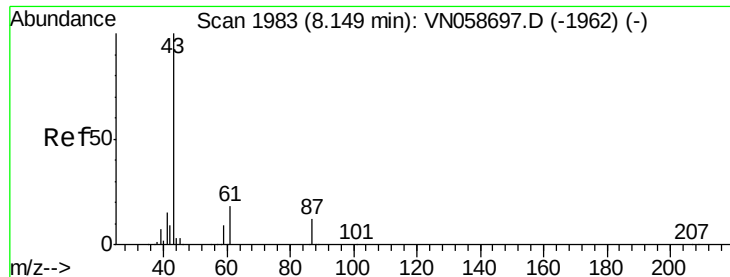
Tgt Ion: 62 Resp: 19461

Ion Ratio Lower Upper

62 100

98 8.5 0.0 15.8





#43

Isopropyl Acetate

Concen: 2.656 ug/l

RT: 8.15 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

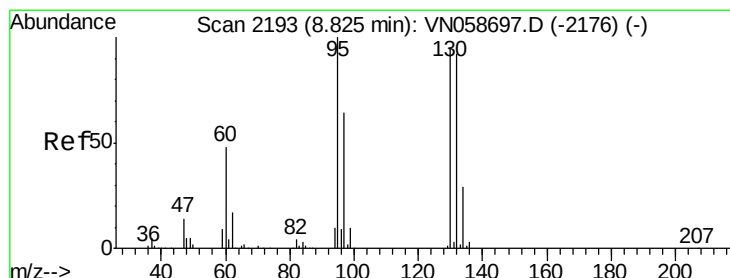
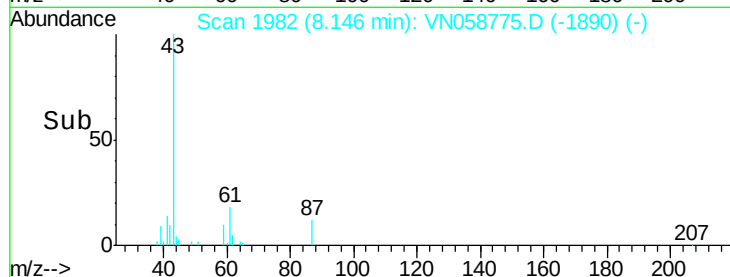
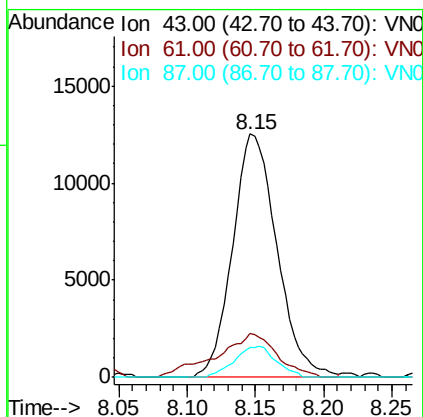
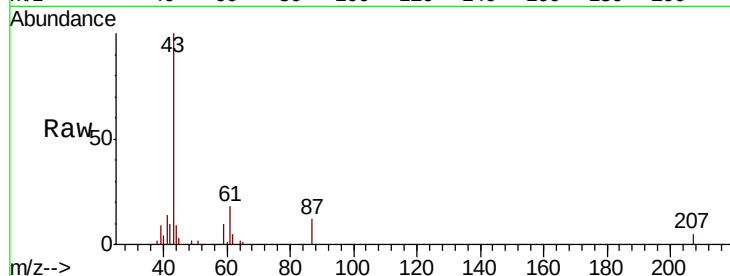
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:	43	Resp:	28283
Ion	Ratio	Lower	Upper
43	100		
61	24.8	20.3	30.5
87	12.0	9.8	14.6

Manual Integrations
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#44

Trichloroethene

Concen: 2.723 ug/l

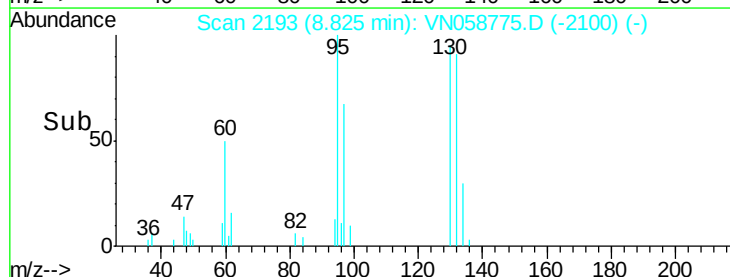
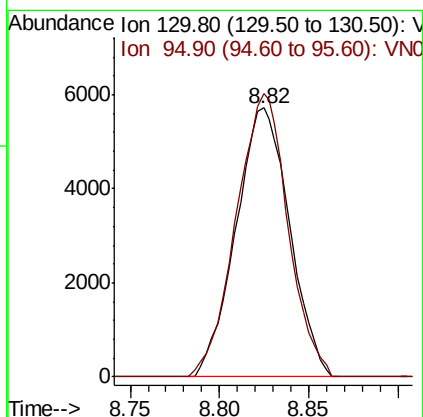
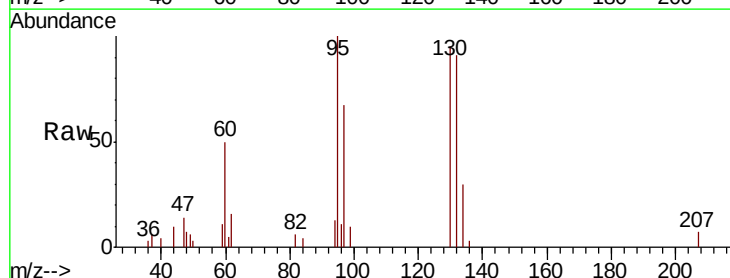
RT: 8.82 min Scan# 2193

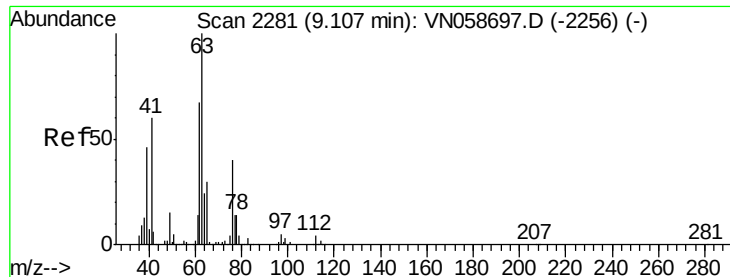
Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Tgt Ion:	130	Resp:	12006
Ion	Ratio	Lower	Upper
130	100		
95	105.2	0.0	211.2





#45
 1,2-Dichloropropane
 Concen: 2.651 ug/l
 RT: 9.11 min Scan# 2282
 Delta R.T. 0.00 min
 Lab File: VN058775.D
 Acq: 15 Oct 2019 12:36

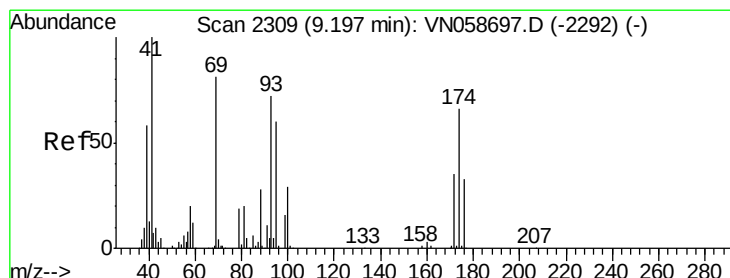
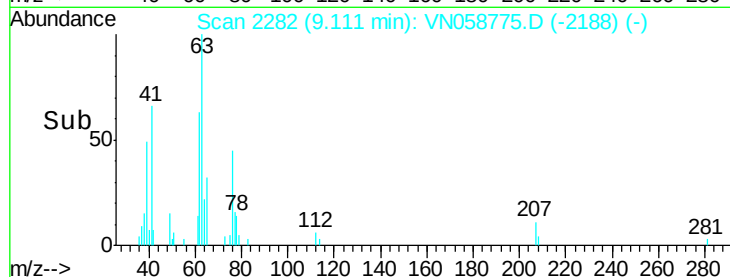
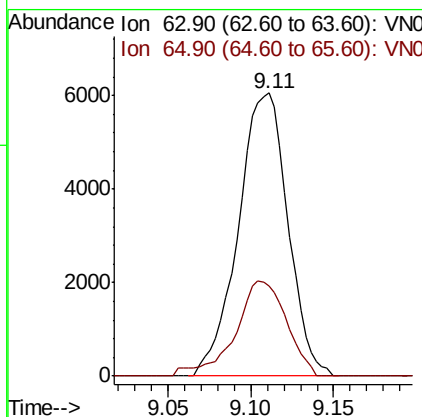
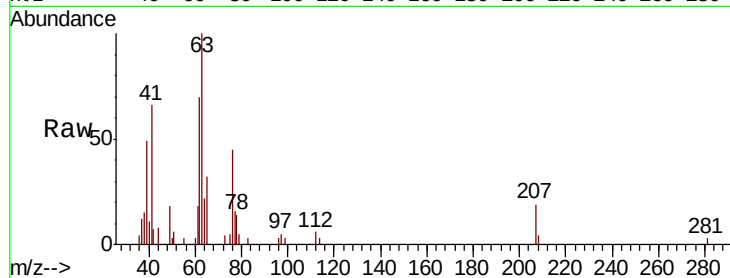
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 63 Resp: 12599
 Ion Ratio Lower Upper
 63 100
 65 32.0 24.1 36.1

Manual Integrations
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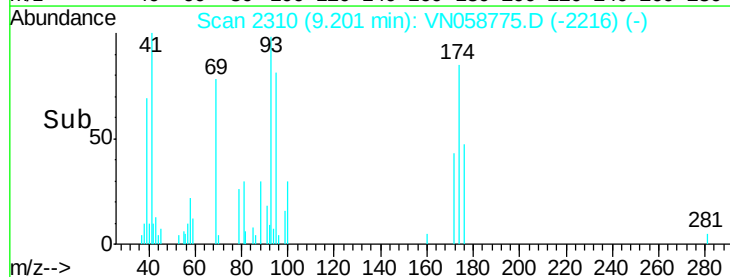
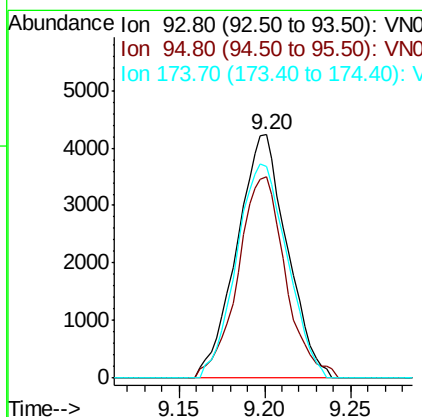
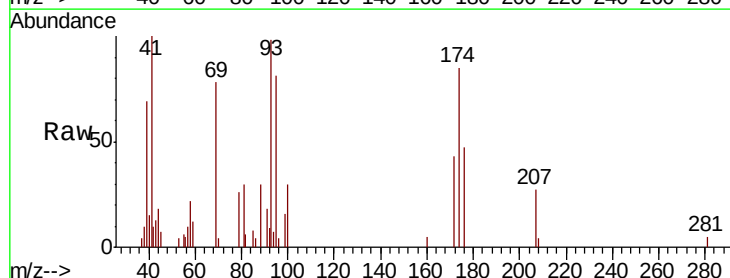
MMDadoda

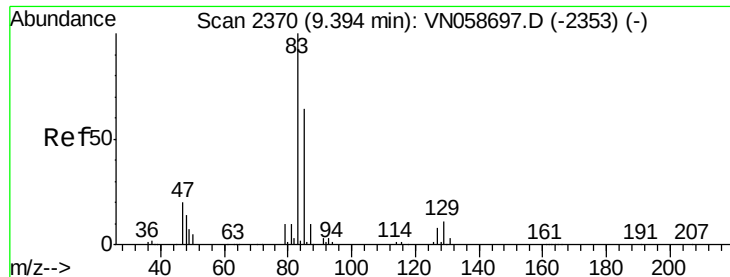
10/18/2019 12:42:34 AM



#46
 Dibromomethane
 Concen: 2.849 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN058775.D
 Acq: 15 Oct 2019 12:36

Tgt Ion: 93 Resp: 8585
 Ion Ratio Lower Upper
 93 100
 95 78.2 66.6 100.0
 174 88.8 75.2 112.8





#47

Bromodichloromethane

Concen: 2.740 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

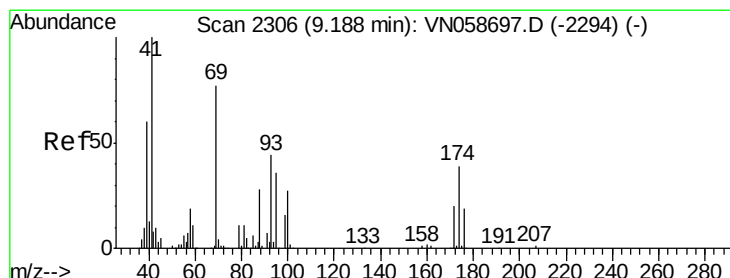
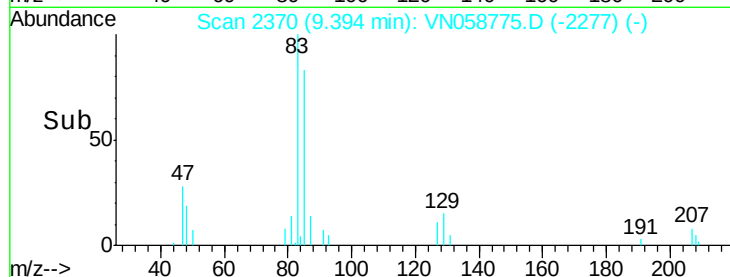
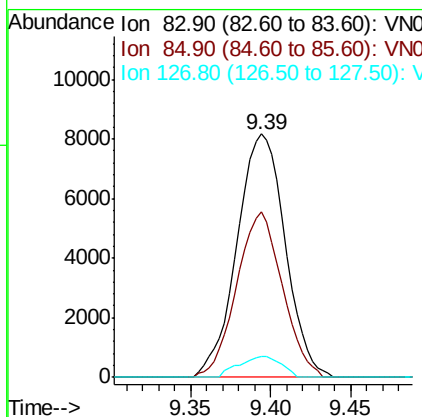
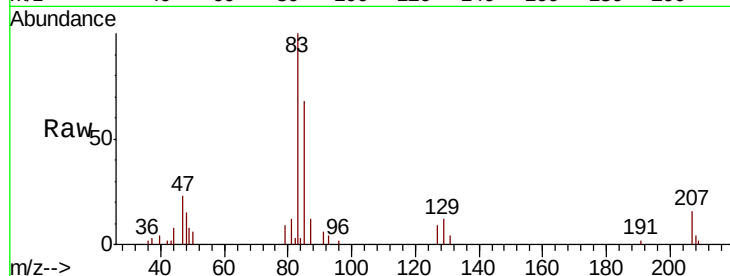
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:	83	Resp:	16815
Ion Ratio	Lower	Upper	
83	100		
85	67.8	50.9	76.3
127	8.8	6.3	9.5

Manual Integrations
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MMDadoda

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#48

Methyl methacrylate

Concen: 2.584 ug/l

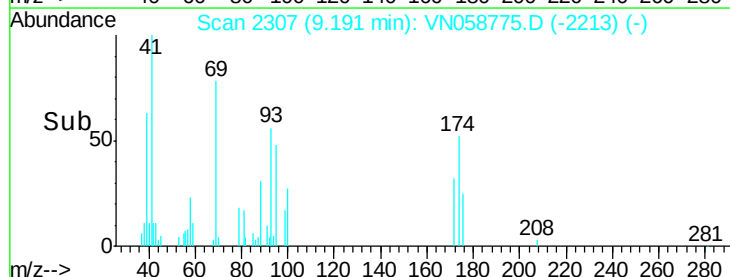
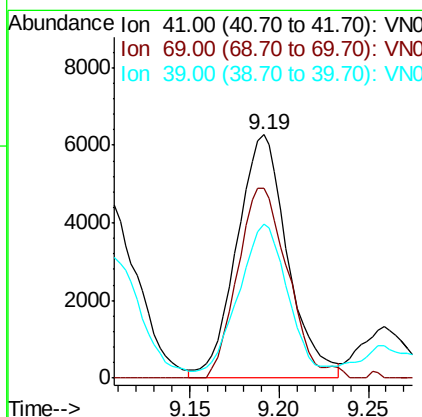
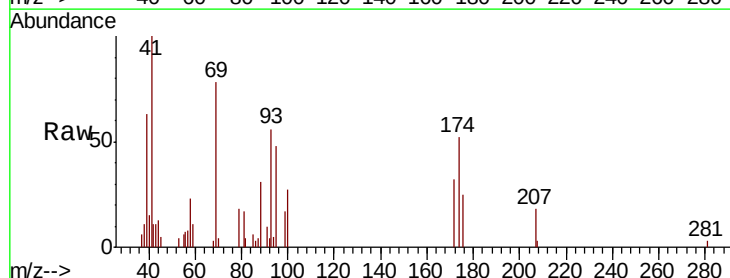
RT: 9.19 min Scan# 2307

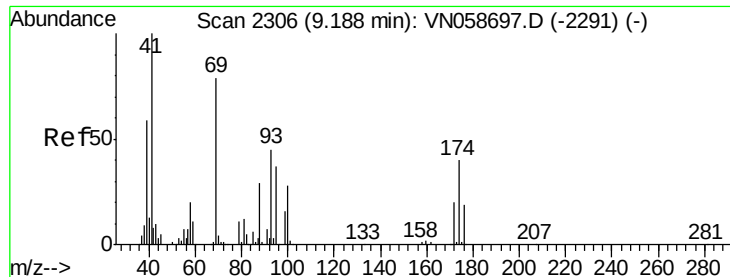
Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Tgt Ion:	41	Resp:	12474
Ion Ratio	Lower	Upper	
41	100		
69	77.5	63.4	95.2
39	58.9	48.9	73.3





#49
1,4-Dioxane
Concen: 55.995 ug/l
RT: 9.19 min Scan# 2306
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

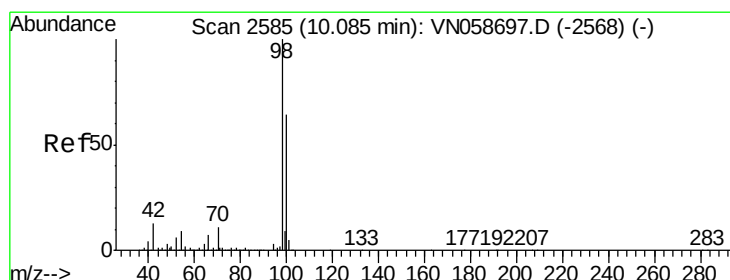
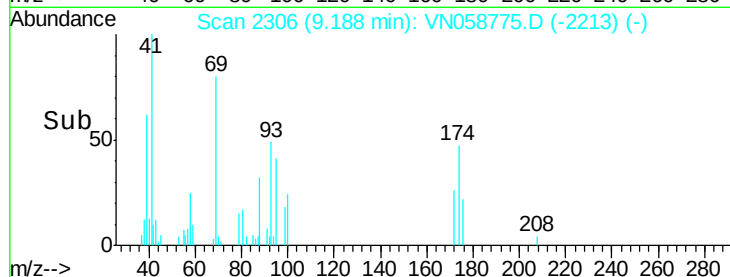
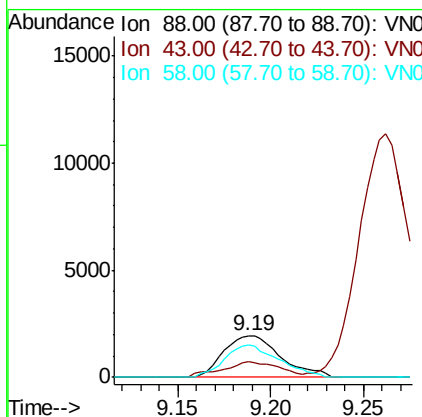
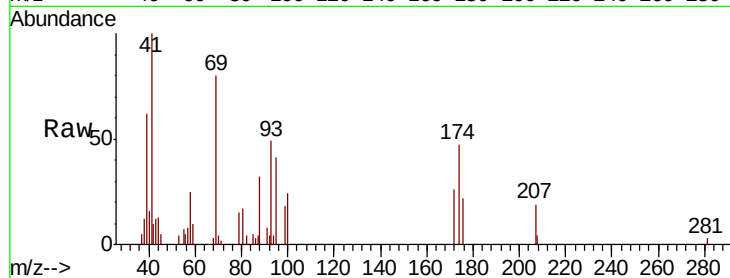
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
88	100		
43	37.2	28.6	43.0
58	73.2	57.2	85.8

Manual Integrations
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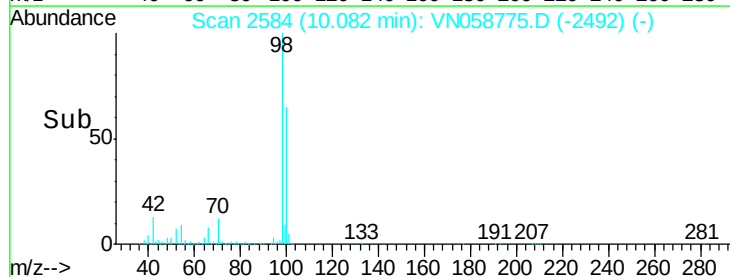
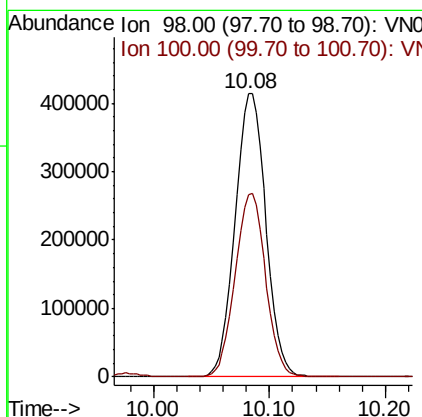
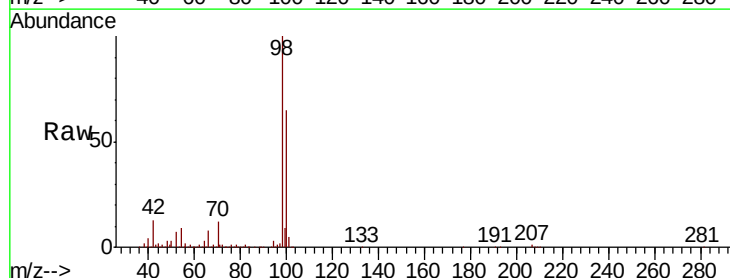
MMDadoda

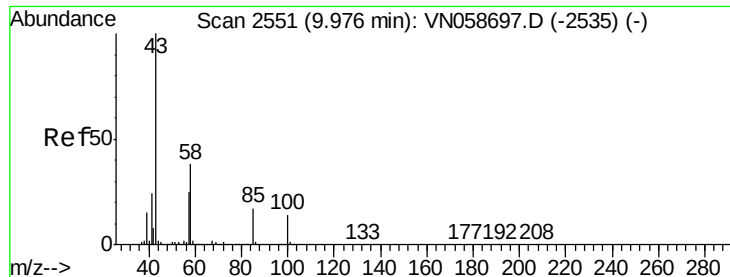
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#50
Toluene-d8
Concen: 50.355 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. -0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.1	76.7





#51
4-Methyl-2-Pentanone
Concen: 13.232 ug/l
RT: 9.98 min Scan# 2551
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

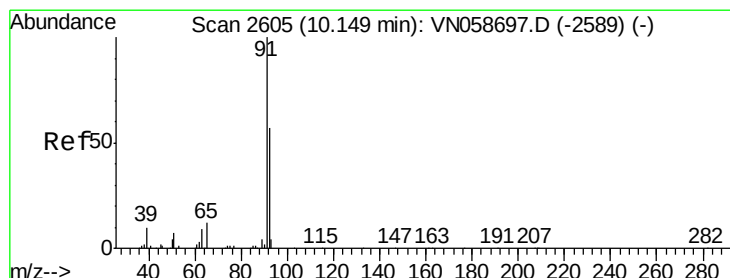
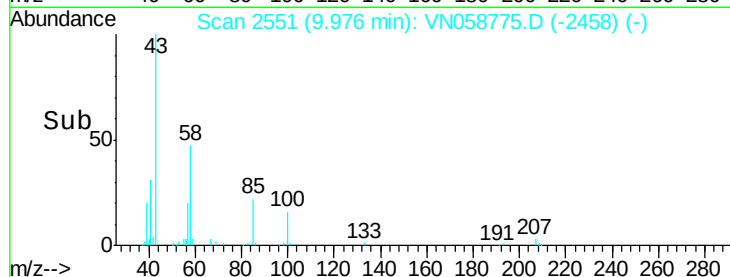
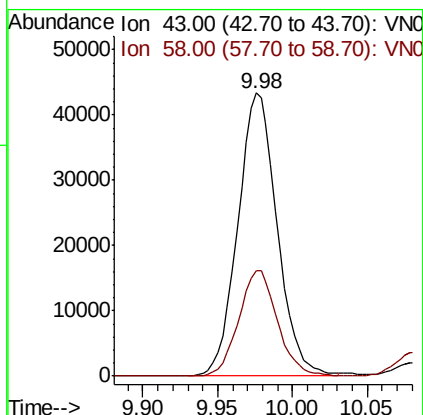
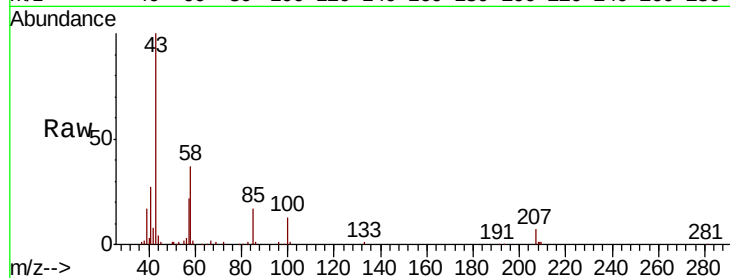
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
43	100		
58	36.6	30.3	45.5

Manual Integrations
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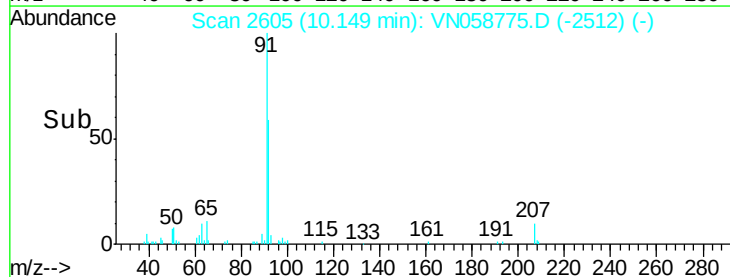
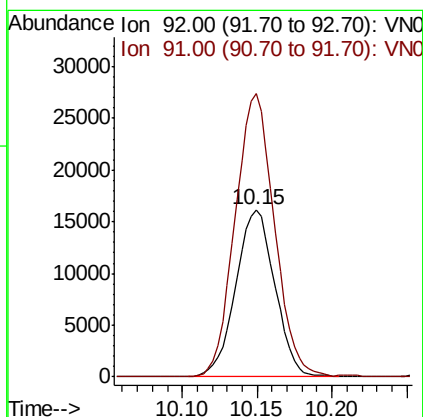
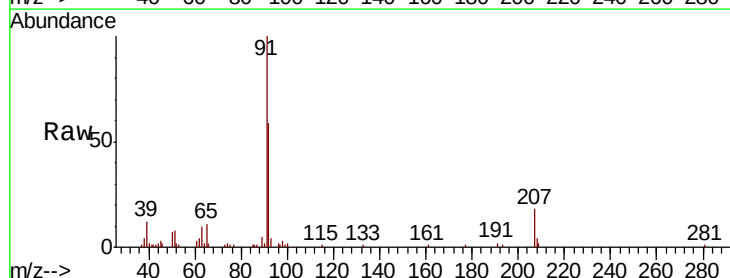
MMDadoda

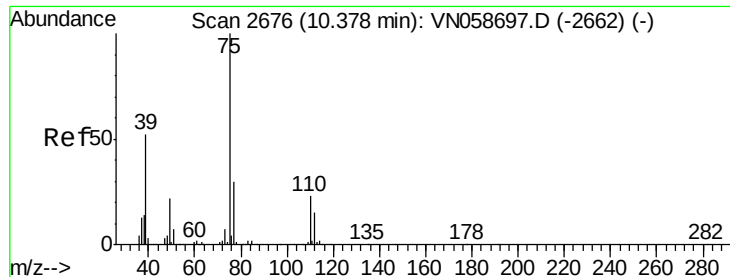
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#52
Toluene
Concen: 2.715 ug/l
RT: 10.15 min Scan# 2605
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

Tgt Ion	Ratio	Lower	Upper
92	100		
91	169.8	139.1	208.7





#53
t-1,3-Dichloropropene
Concen: 2.591 ug/l
RT: 10.38 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

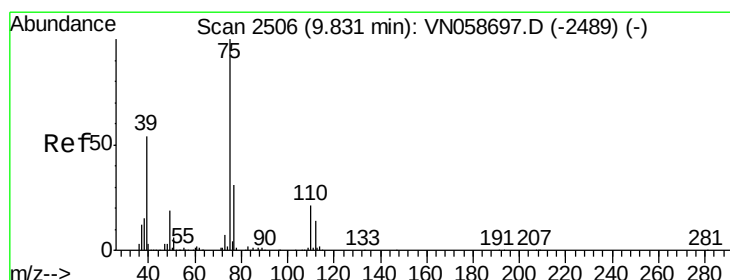
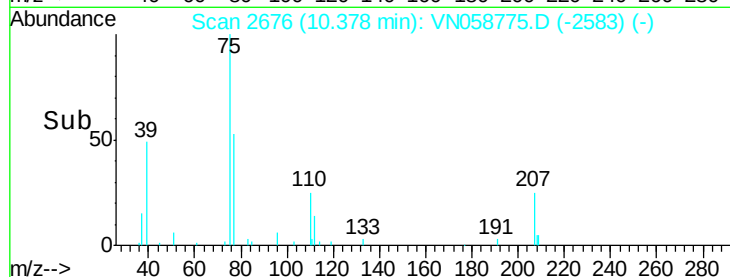
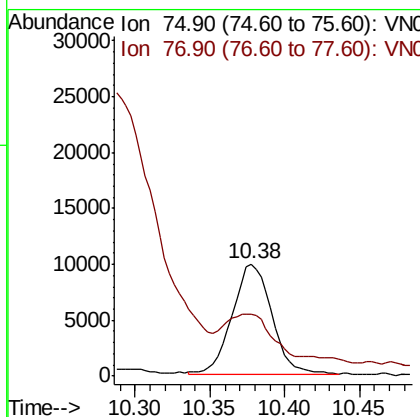
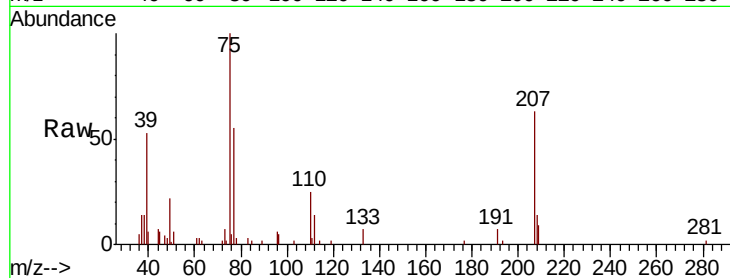
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 75 Resp: 18232
Ion Ratio Lower Upper
75 100
77 40.0 26.2 39.4#

Manual Integrations
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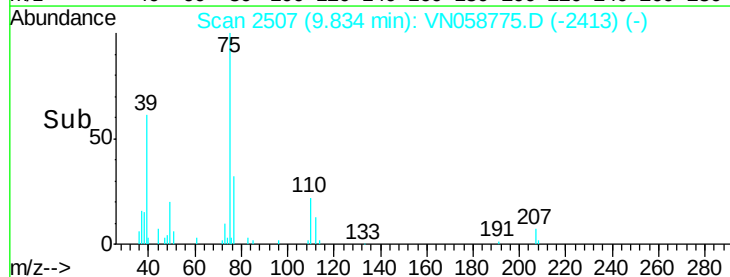
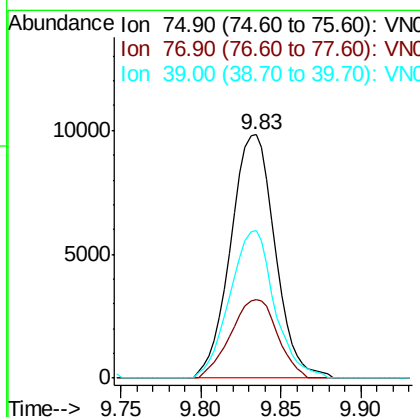
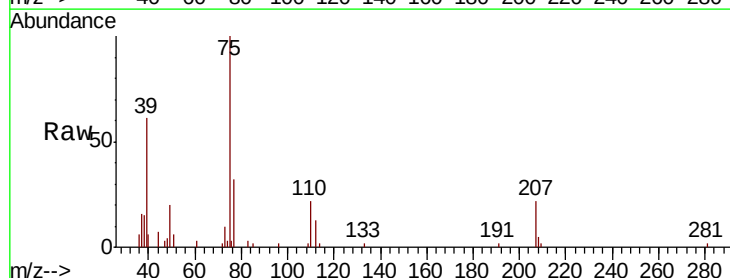
MMDadoda

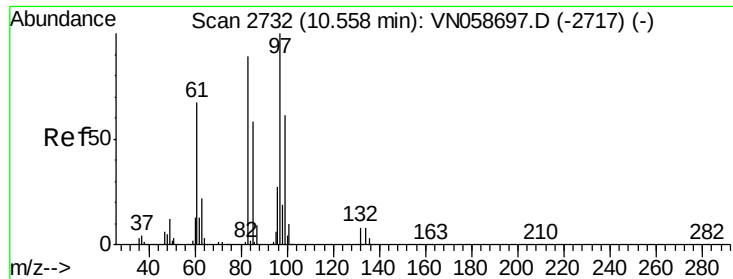
10/18/2019 12:42:34 AM



#54
cis-1,3-Dichloropropene
Concen: 2.489 ug/l
RT: 9.83 min Scan# 2507
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

Tgt Ion: 75 Resp: 18595
Ion Ratio Lower Upper
75 100
77 32.4 24.4 36.6
39 60.5 43.1 64.7





#55
 1,1,2-Trichloroethane
 Concen: 2.815 ug/l
 RT: 10.55 min Scan# 2731
 Delta R.T. -0.00 min
 Lab File: VN058775.D
 Acq: 15 Oct 2019 12:36

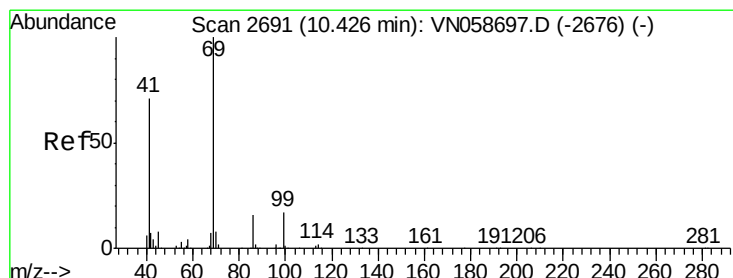
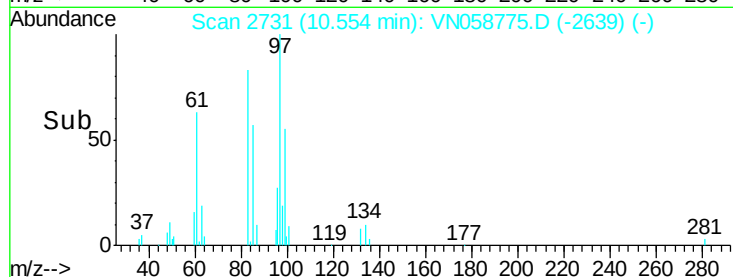
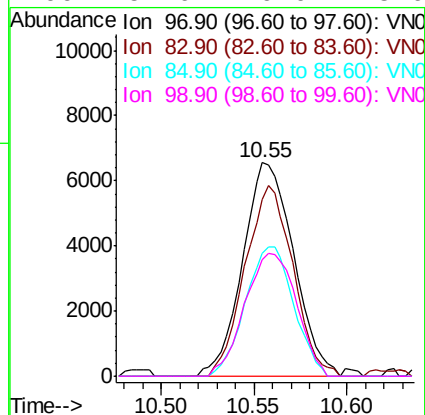
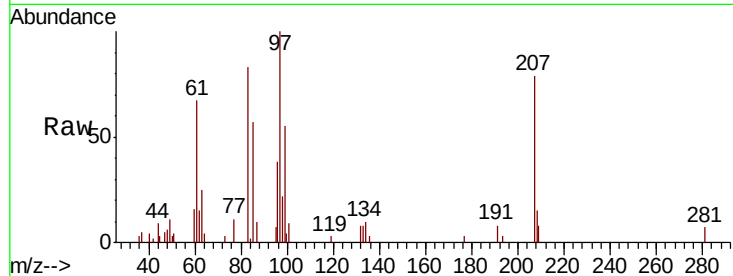
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:	97	Resp:	12512
Ion	Ratio	Lower	Upper
97	100		
83	82.7	71.2	106.8
85	57.4	46.7	70.1
99	54.6	49.0	73.6

Manual Integrations
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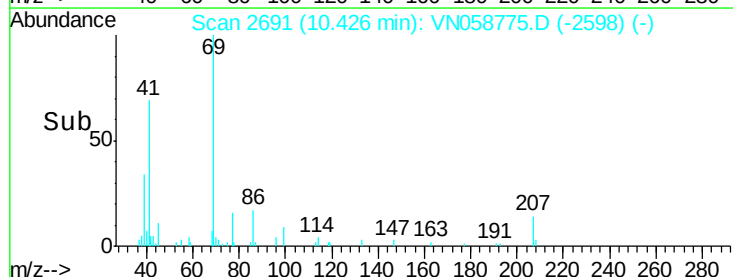
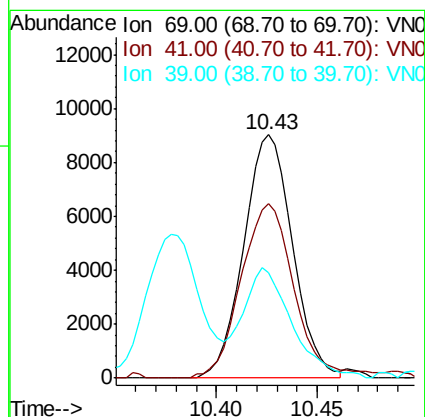
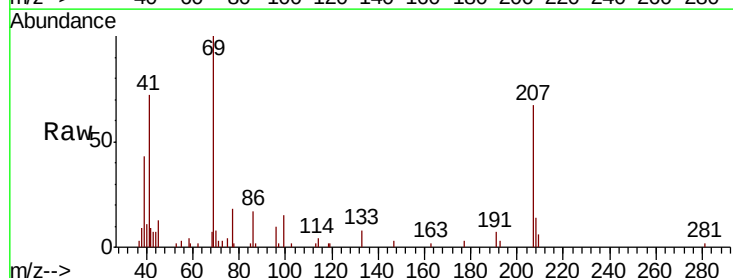
MMDadoda

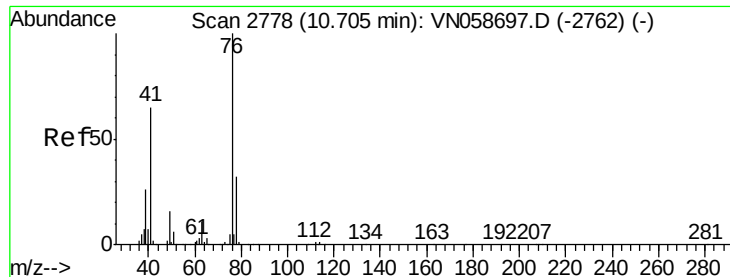
10/18/2019 12:42:34 AM



#56
 Ethyl methacrylate
 Concen: 2.364 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. 0.00 min
 Lab File: VN058775.D
 Acq: 15 Oct 2019 12:36

Tgt Ion:	69	Resp:	15351
Ion	Ratio	Lower	Upper
69	100		
41	78.2	56.8	85.2
39	45.8	32.5	48.7





#57

1,3-Dichloropropane

Concen: 2.768 ug/l

RT: 10.70 min Scan# 2777

Delta R.T. -0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 76 Resp: 20961

Ion Ratio Lower Upper

76 100

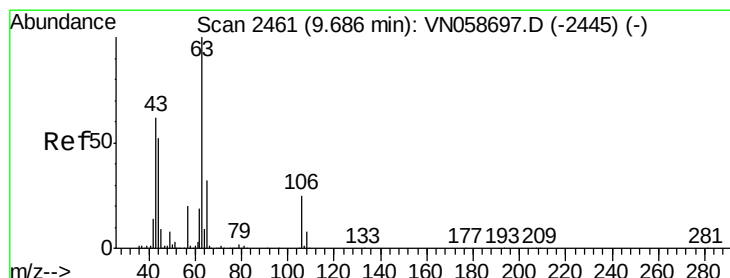
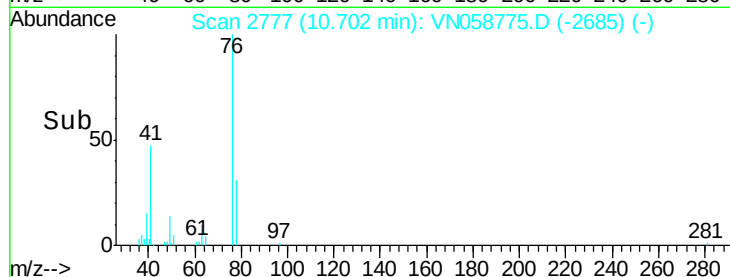
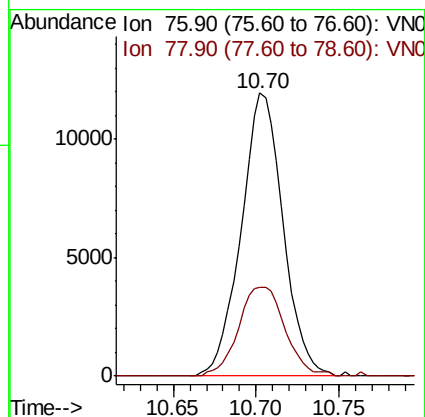
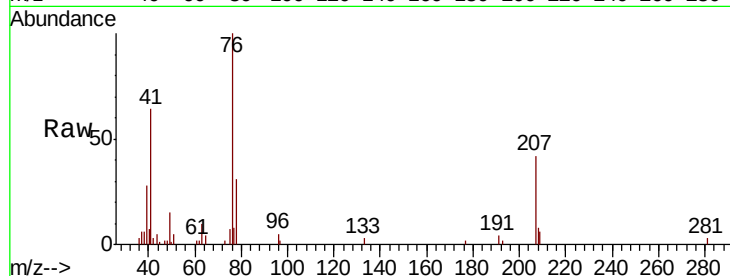
78 35.0 25.9 38.9

Manual Integrations

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MMDadoda

10/18/2019 12:42:34 AM



#58

2-Chloroethyl Vinyl ether

Concen: 10.943 ug/l

RT: 9.69 min Scan# 2462

Delta R.T. 0.00 min

Lab File: VN058775.D

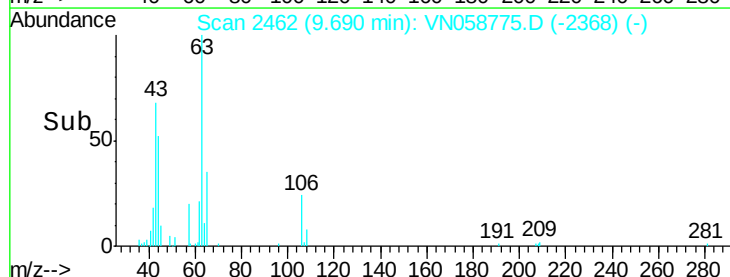
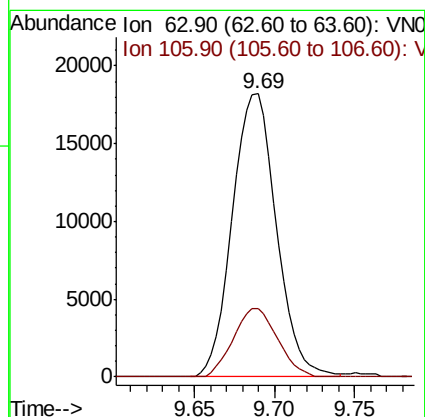
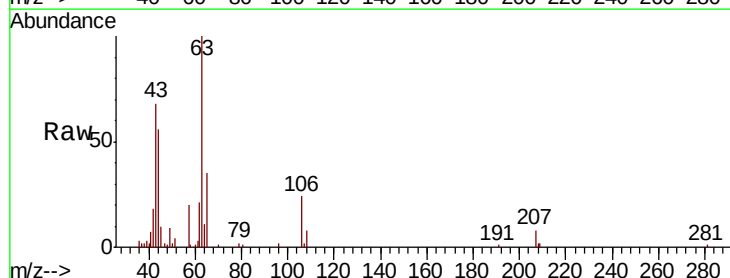
Acq: 15 Oct 2019 12:36

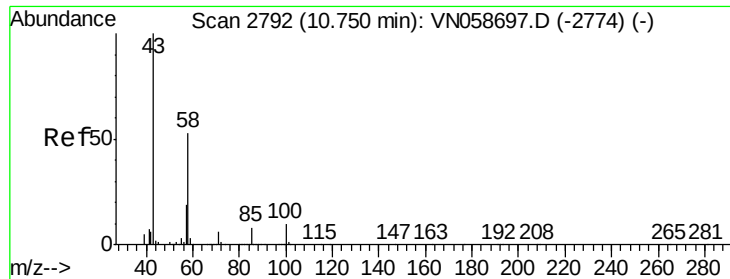
Tgt Ion: 63 Resp: 34242

Ion Ratio Lower Upper

63 100

106 24.1 20.0 30.0





#59
2-Hexanone
Concen: 12.775 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

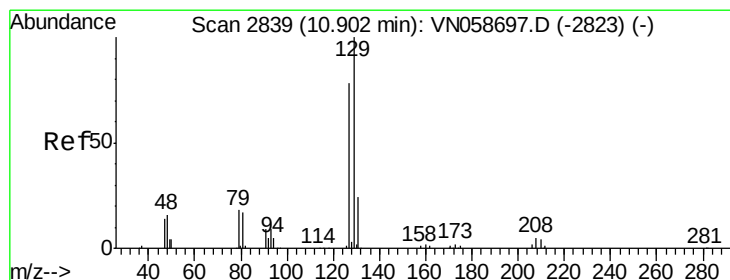
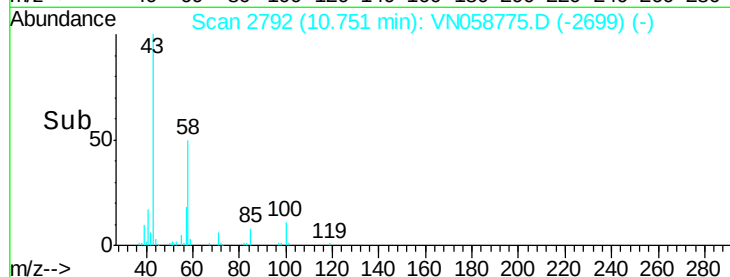
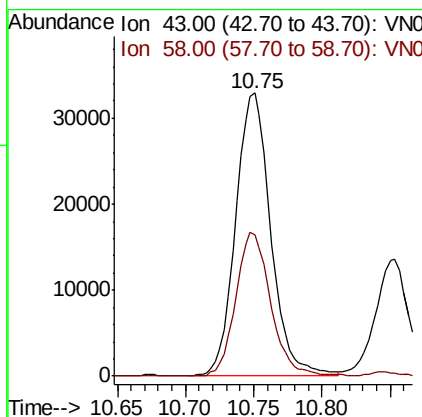
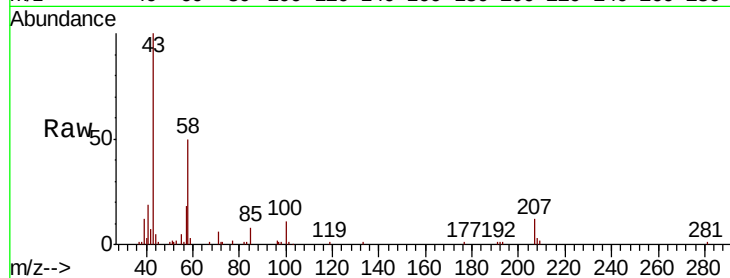
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 43 Resp: 59049
Ion Ratio Lower Upper
43 100
58 50.2 26.1 78.3

Manual Integrations
APPROVED

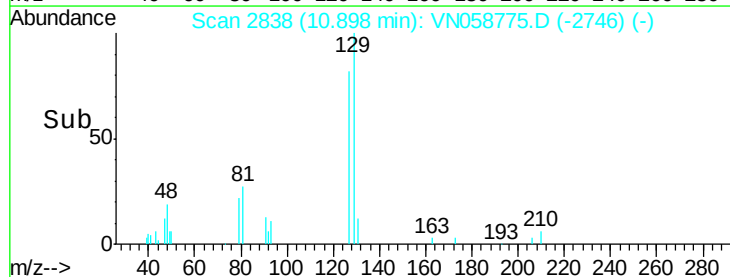
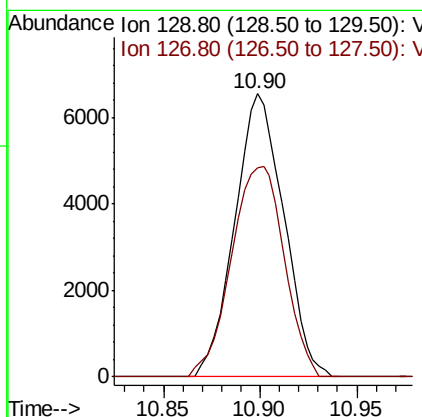
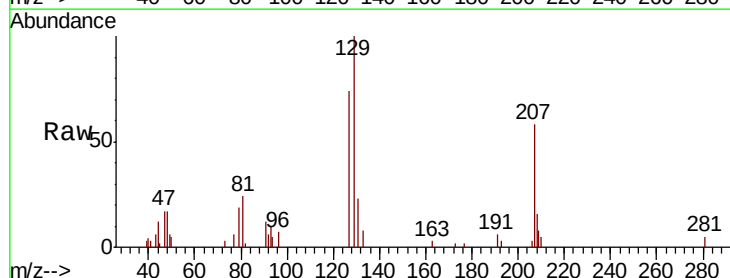
MMDadoda

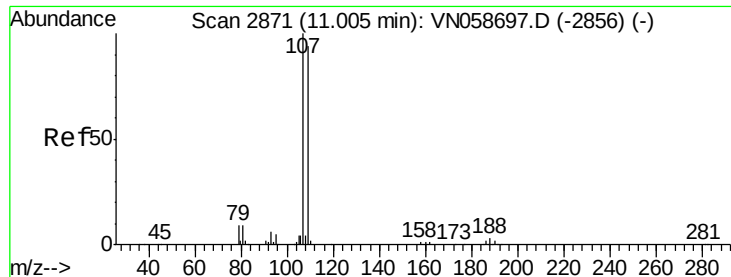
10/18/2019 12:42:34 AM



#60
Dibromochloromethane
Concen: 2.513 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. -0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

Tgt Ion: 129 Resp: 11519
Ion Ratio Lower Upper
129 100
127 80.1 38.5 115.3





#61
 1,2-Dibromoethane
 Concen: 2.674 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN058775.D
 Acq: 15 Oct 2019 12:36

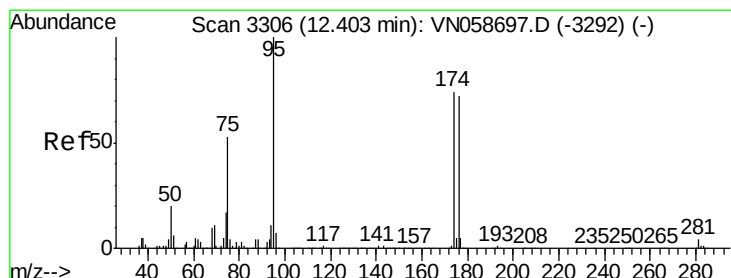
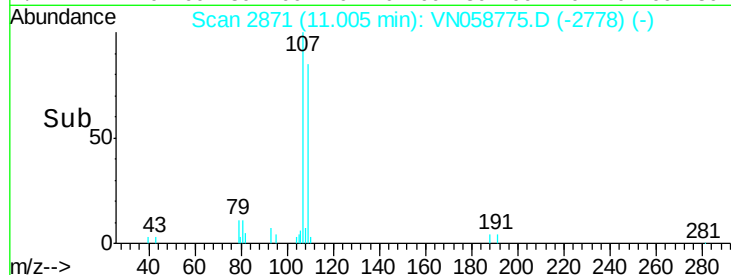
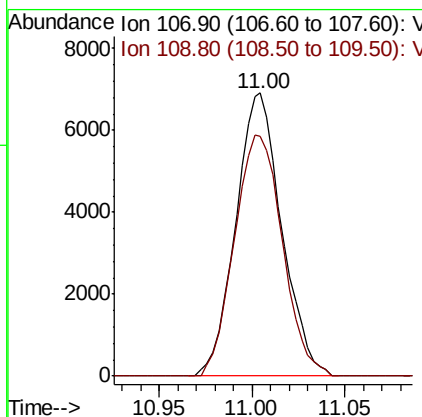
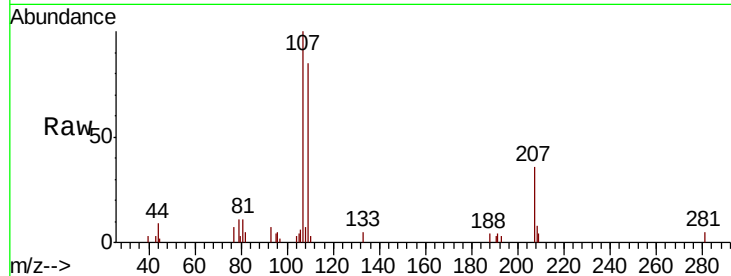
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
107	100		
109	89.3	75.4	113.0

Manual Integrations
 APPROVED

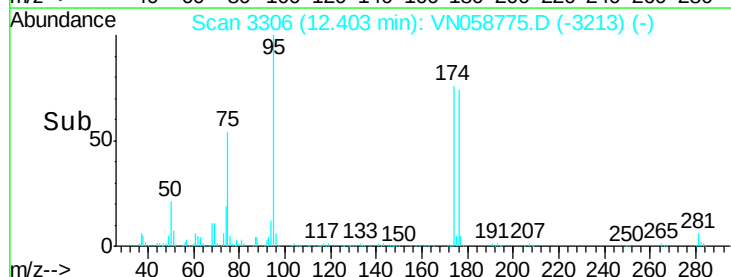
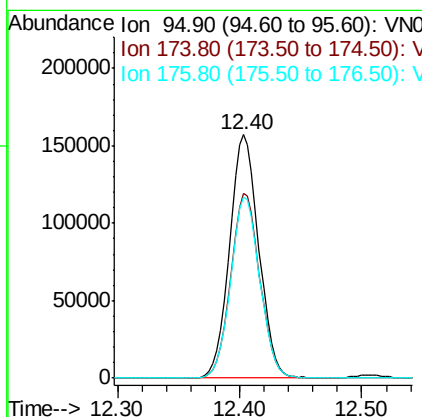
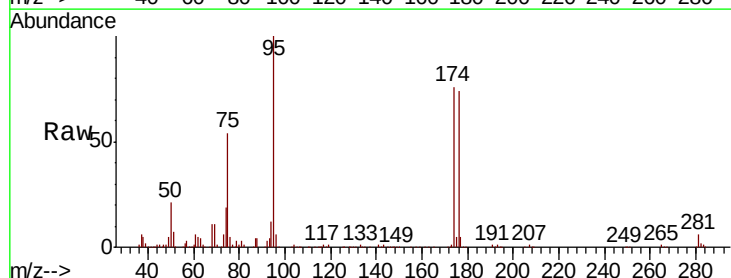
MMDadoda

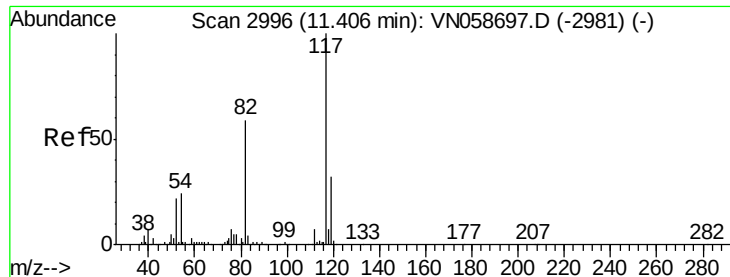
10/18/2019 12:42:34 AM



#62
 4-Bromofluorobenzene
 Concen: 45.804 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN058775.D
 Acq: 15 Oct 2019 12:36

Tgt Ion	Ratio	Lower	Upper
95	100		
174	75.9	0.0	150.4
176	74.2	0.0	146.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

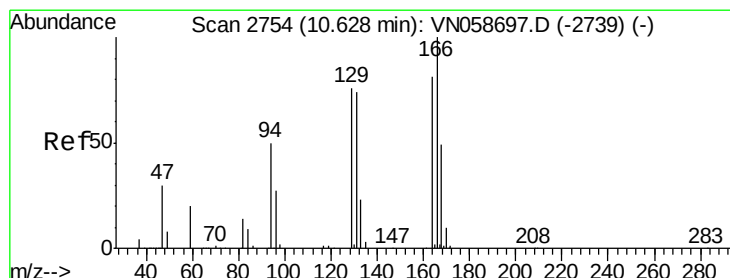
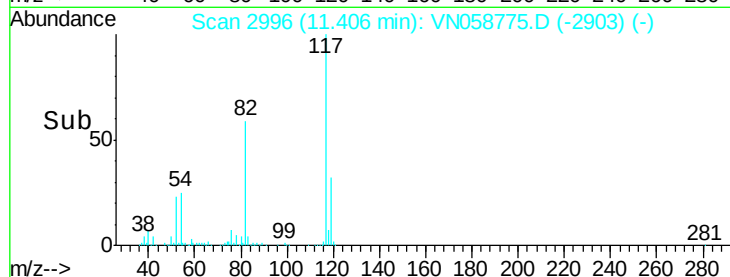
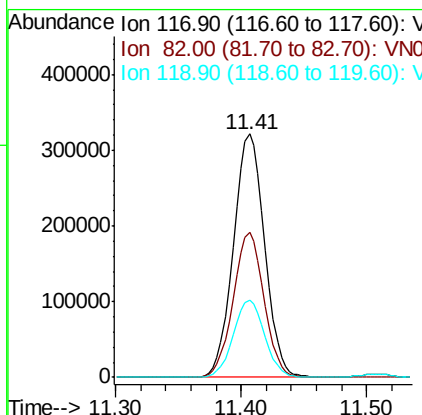
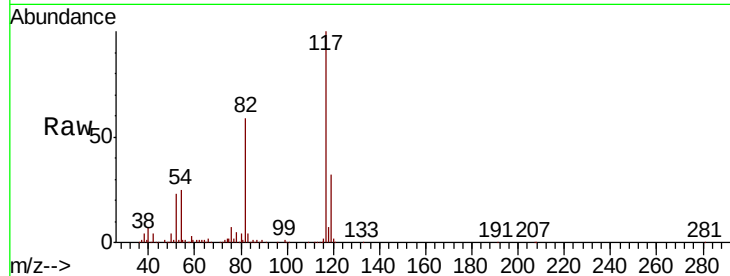
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Resp	Lower	Upper
117	100	554661		
82	59.5		47.0	70.4
119	31.6		25.4	38.2

Manual Integrations
APPROVED

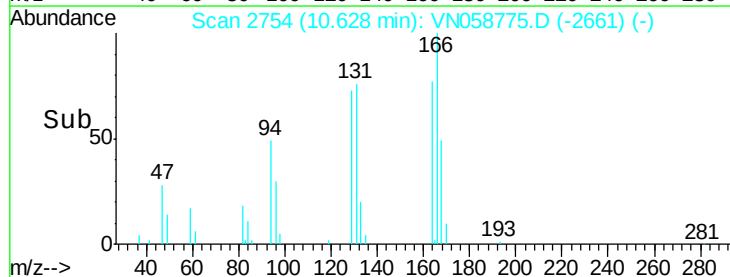
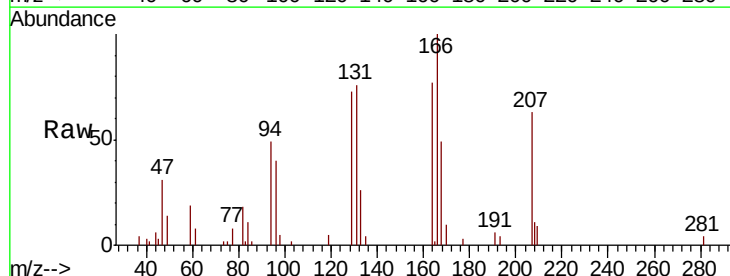
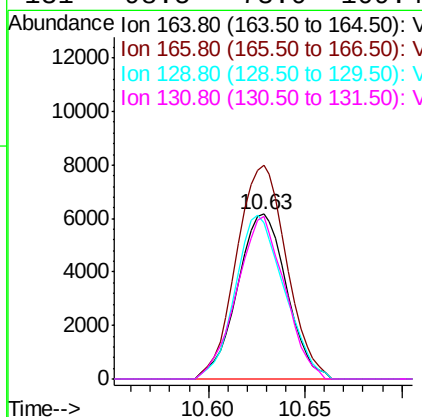
MMDadoda

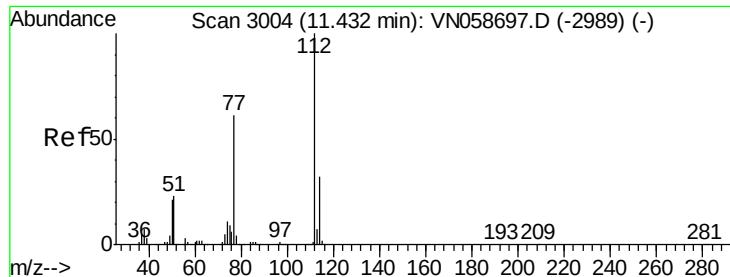
10/18/2019 12:42:34 AM



#64
Tetrachloroethene
Concen: 2.812 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	10915		
166	129.5		99.3	148.9
129	94.4		75.2	112.8
131	98.5		73.0	109.4





#65
Chlorobenzene
Concen: 2.646 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

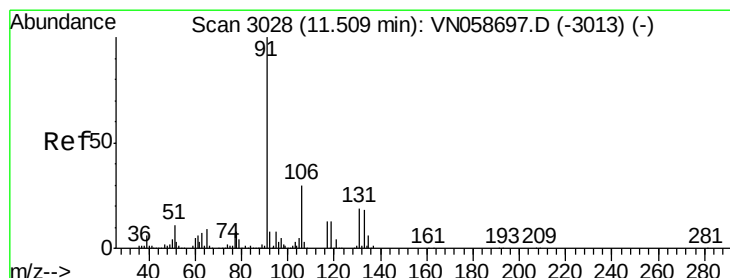
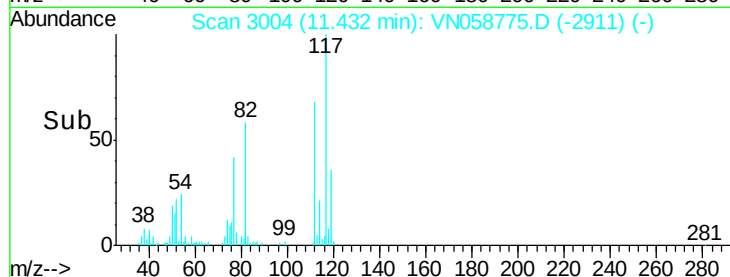
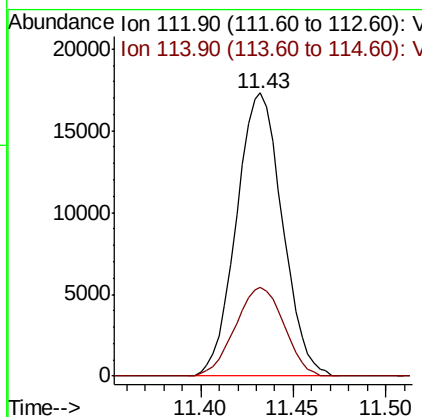
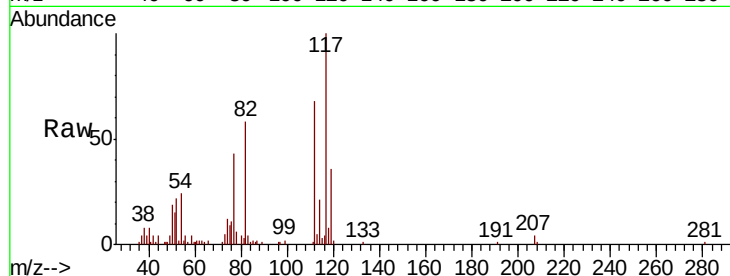
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:112 Resp: 29800
Ion Ratio Lower Upper
112 100
114 31.2 25.2 37.8

Manual Integrations
APPROVED

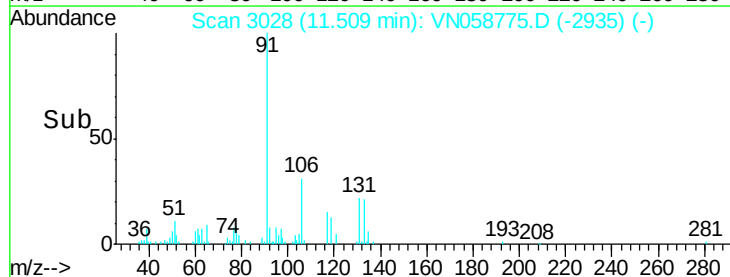
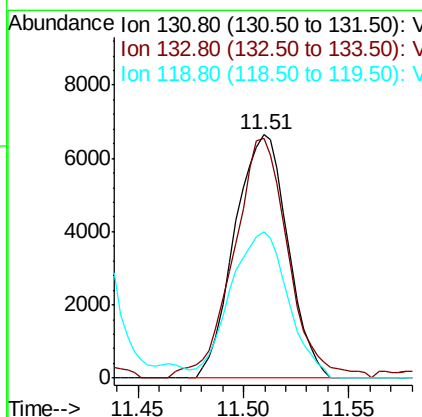
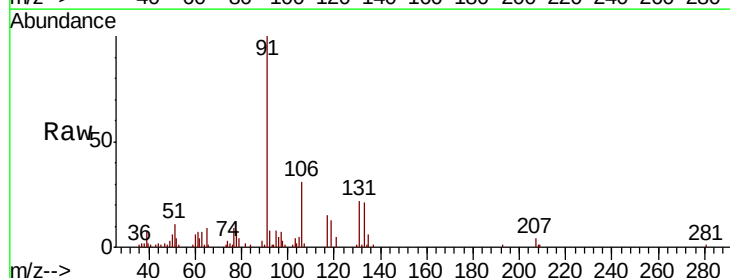
MMDadoda

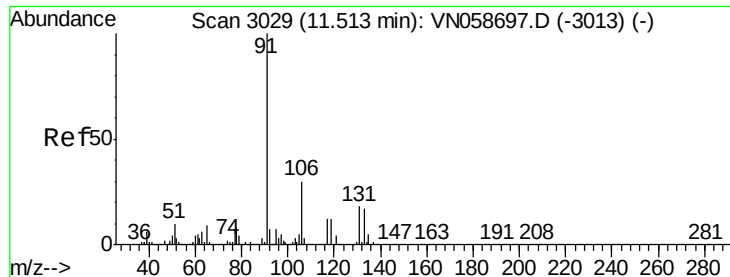
10/18/2019 12:42:34 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 2.790 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

Tgt Ion:131 Resp: 11620
Ion Ratio Lower Upper
131 100
133 101.3 47.6 142.9
119 65.4 33.0 98.9





#67

Ethyl Benzene

Concen: 2.587 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 91 Resp: 51936

Ion Ratio Lower Upper

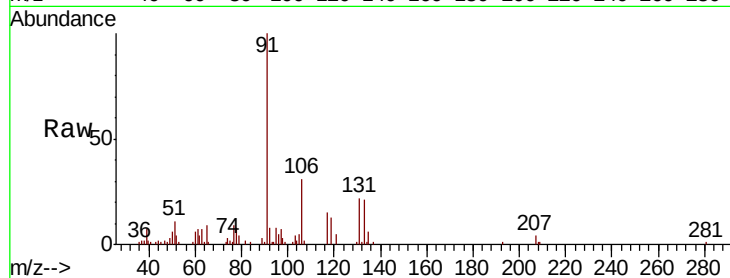
91 100

106 30.6 24.1 36.1

Manual Integrations
APPROVED

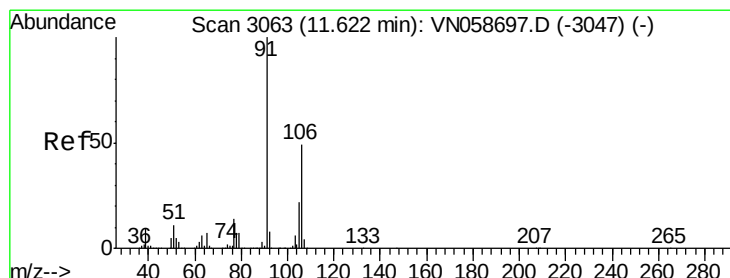
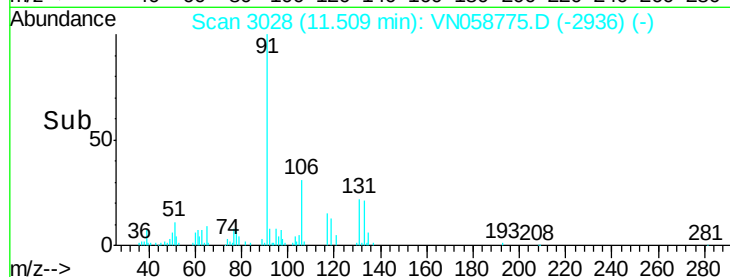
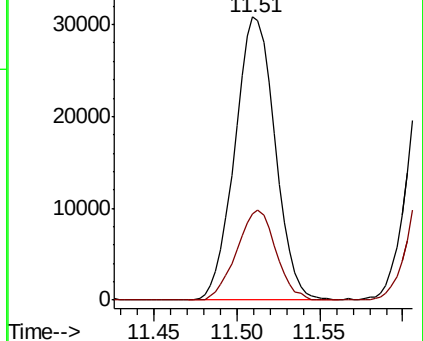
MMDadoda

10/18/2019 12:42:34 AM



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

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



#68

m/p-Xylenes

Concen: 4.946 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN058775.D

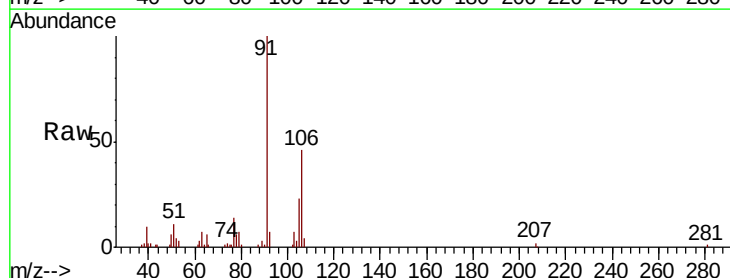
Acq: 15 Oct 2019 12:36

Tgt Ion: 106 Resp: 37271

Ion Ratio Lower Upper

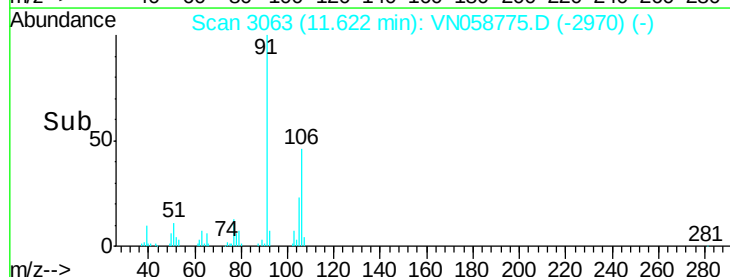
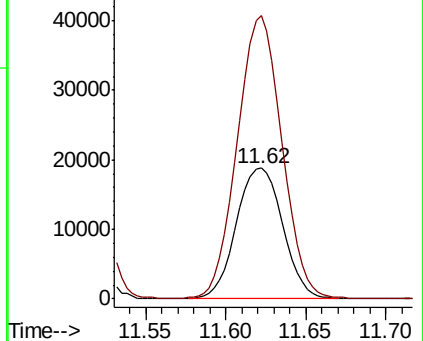
106 100

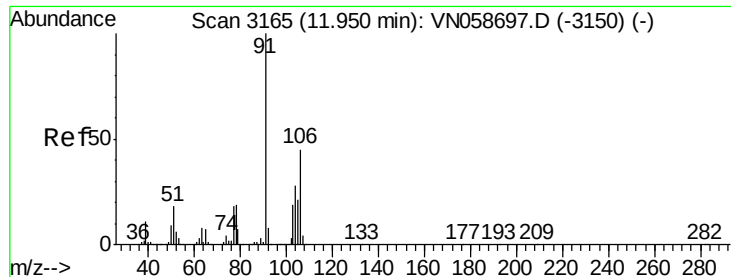
91 208.4 165.7 248.5



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

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





#69
o-Xylene
Concen: 2.392 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

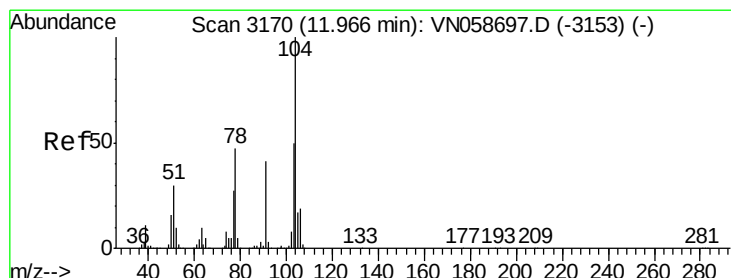
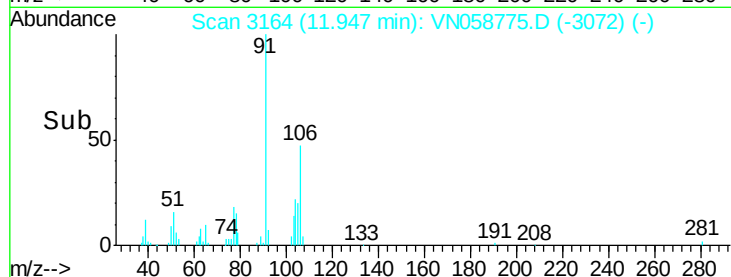
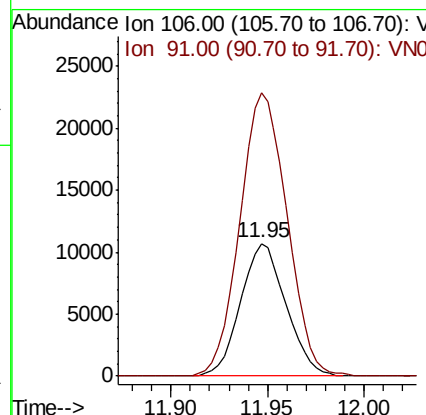
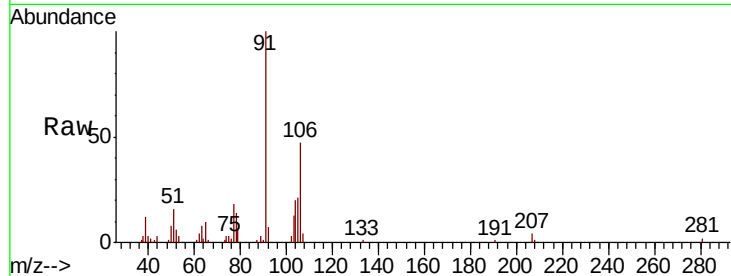
Instrument :
MSVOA_N
ClientSampled :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ion	Ratio	Lower	Upper
106	100			
91	222.2	110.9	332.9	

Manual Integrations
APPROVED

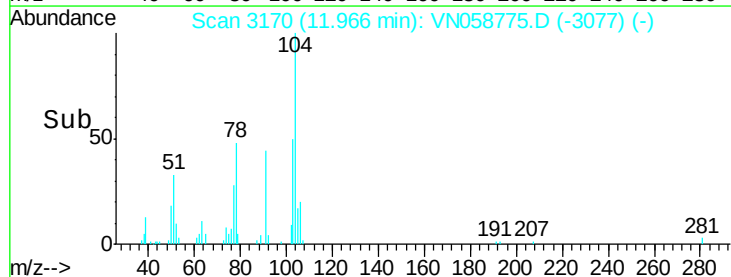
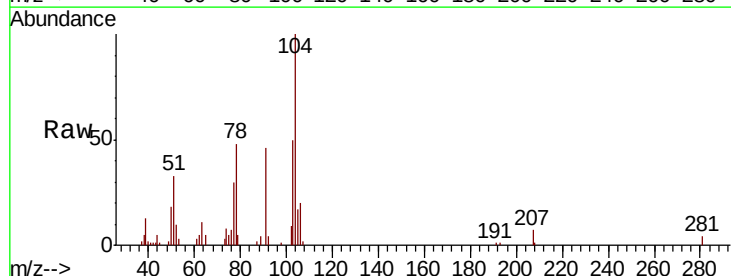
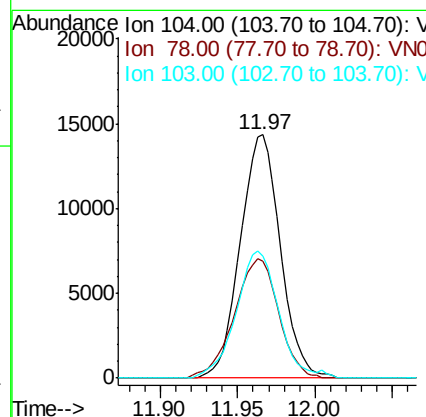
MMDadoda

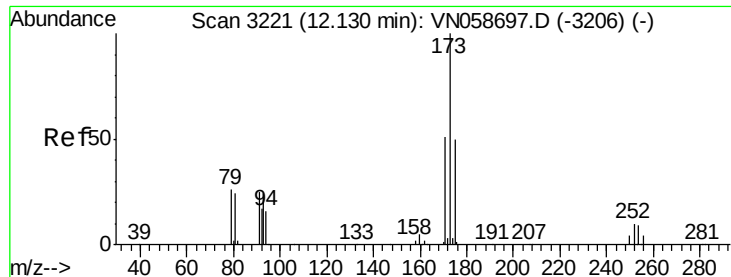
10/18/2019 12:42:34 AM



#70
Styrene
Concen: 2.167 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

Tgt Ion	Ion	Ratio	Lower	Upper
104	100			
78	54.0	42.2	63.2	
103	55.3	43.7	65.5	





#71

Bromoform

Concen: 2.582 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

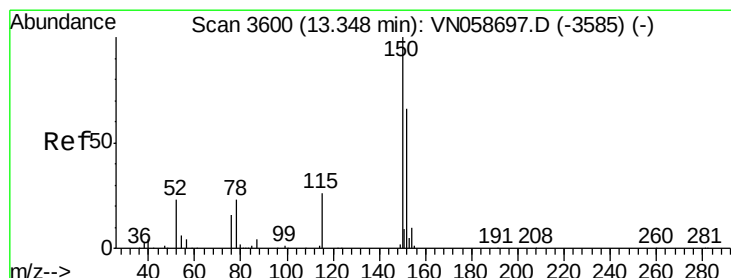
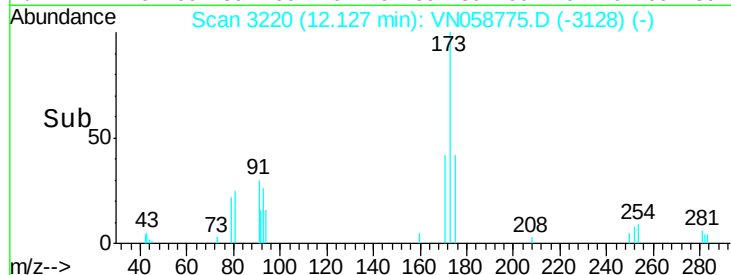
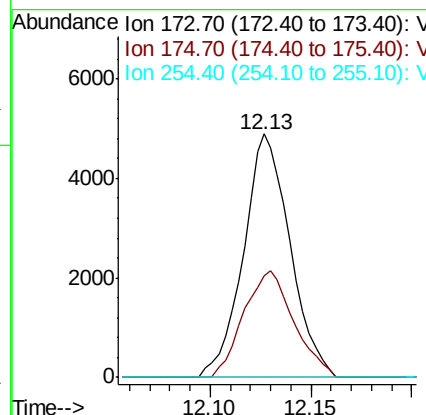
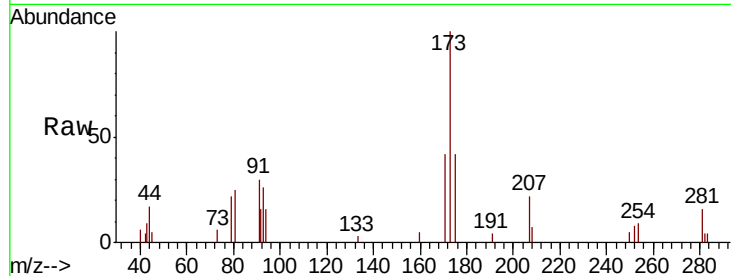
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:	173	Resp:	7884
Ion Ratio	Lower	Upper	
173	100		
175	47.2	24.6	73.8
254	0.0	0.1	0.1#

Manual Integrations
APPROVED

MMDadoda

10/18/2019 12:42:34 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

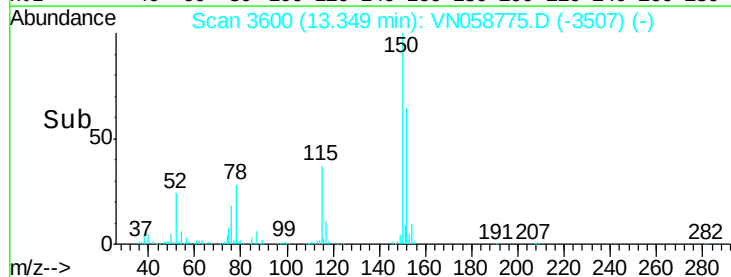
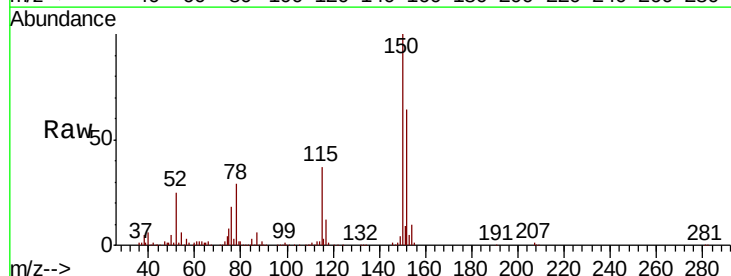
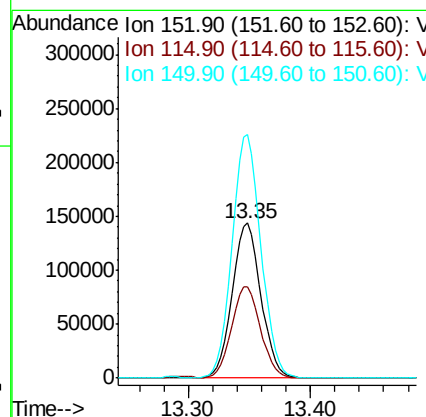
RT: 13.35 min Scan# 3600

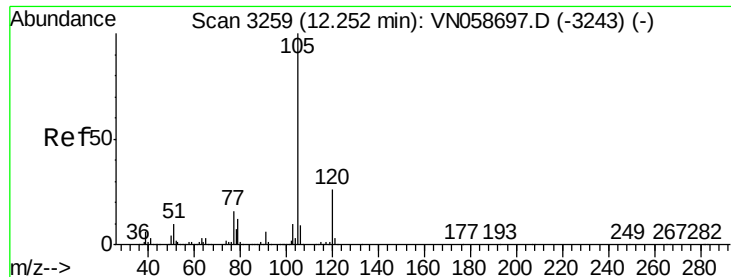
Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Tgt Ion:	152	Resp:	236985
Ion Ratio	Lower	Upper	
152	100		
115	59.5	30.4	91.2
150	156.9	0.0	345.4





#73
Isopropylbenzene
Concen: 2.724 ug/l
RT: 12.25 min Scan# 3259
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

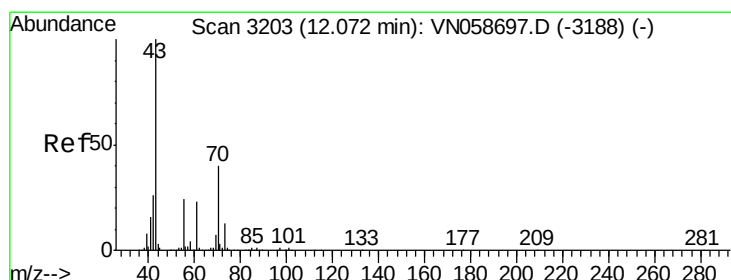
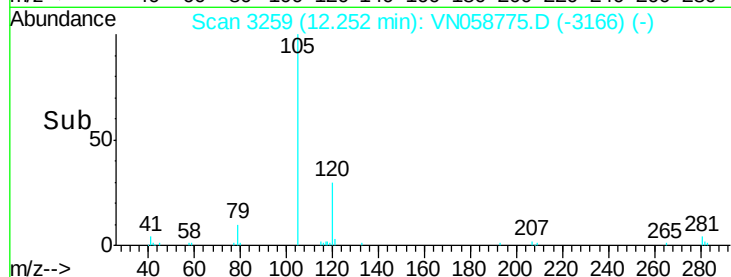
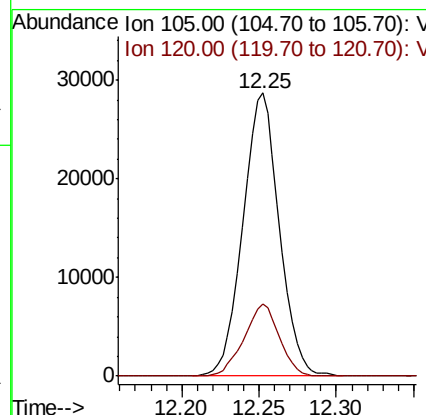
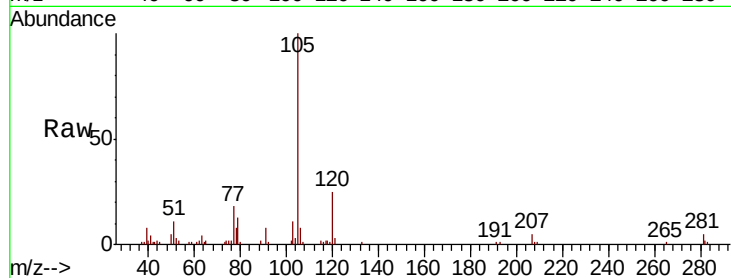
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
105	100		
120	24.7	13.1	39.1

Manual Integrations
APPROVED

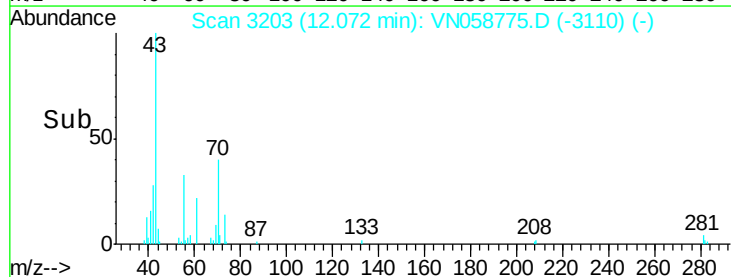
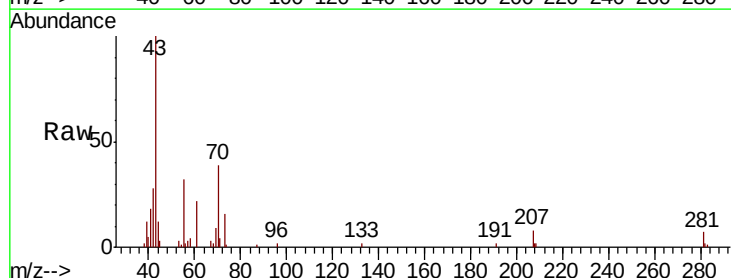
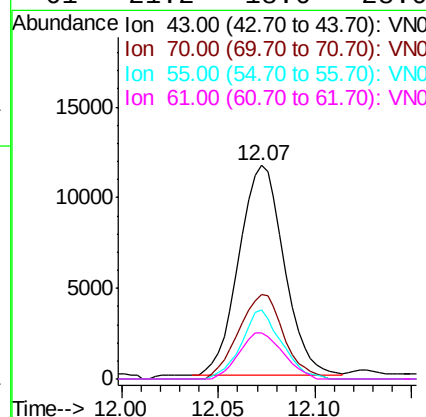
MMDadoda

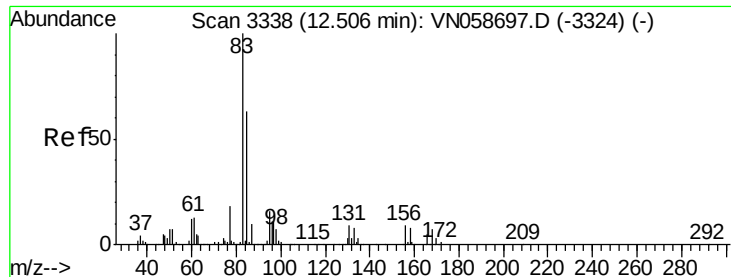
10/18/2019 12:42:34 AM



#74
N-ethyl acetate
Concen: 2.459 ug/l
RT: 12.07 min Scan# 3203
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

Tgt Ion	Ratio	Lower	Upper
43	100		
70	39.9	32.2	48.4
55	28.9	19.6	29.4
61	21.2	18.6	28.0





#75

1,1,2,2-Tetrachloroethane

Concen: 3.048 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

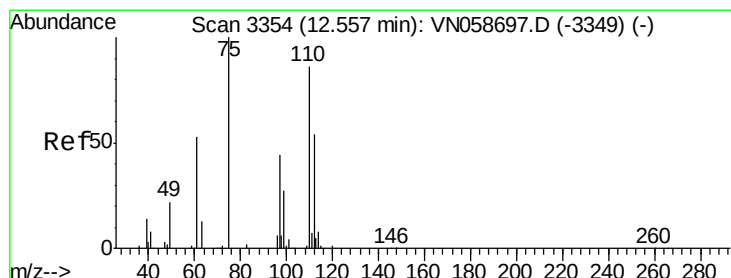
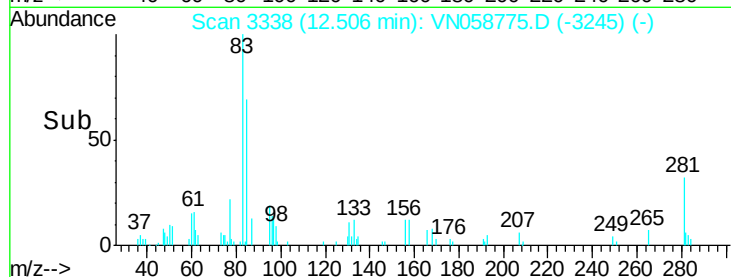
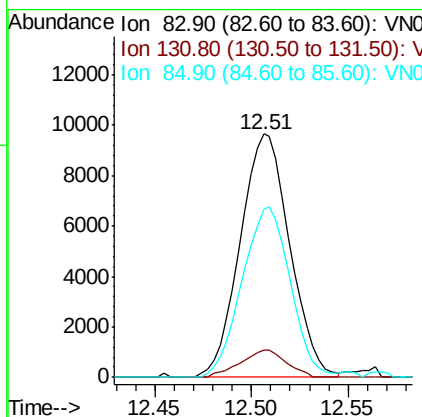
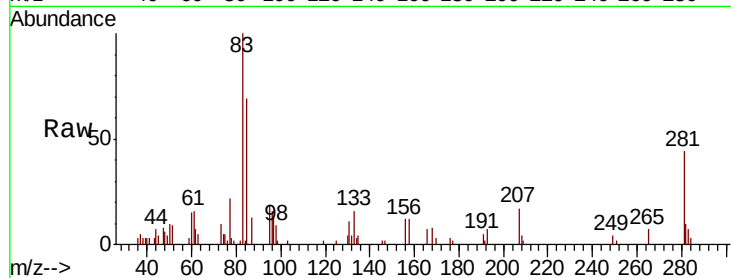
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:	83	Resp:	17231
Ion Ratio	Lower	Upper	
83	100		
131	10.4	4.8	14.4
85	67.6	31.9	95.5

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 3.350 ug/l m

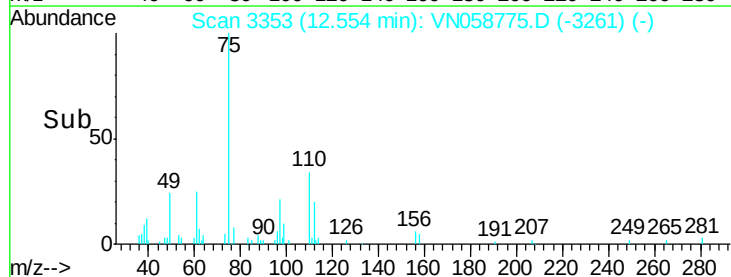
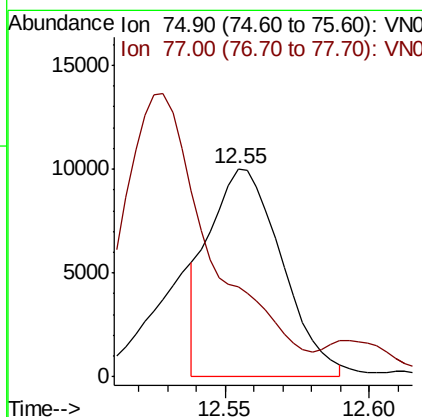
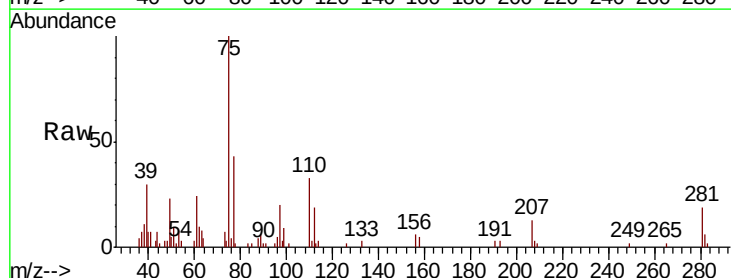
RT: 12.55 min Scan# 3353

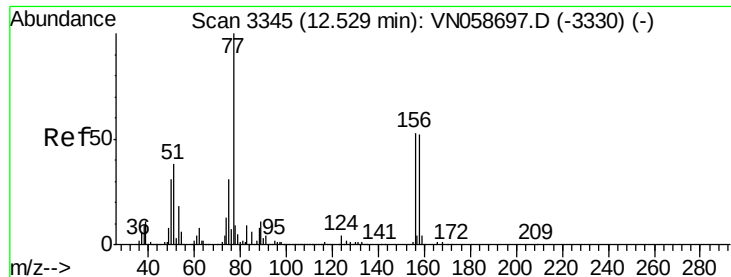
Delta R.T. -0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Tgt Ion:	75	Resp:	17415
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 2.975 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

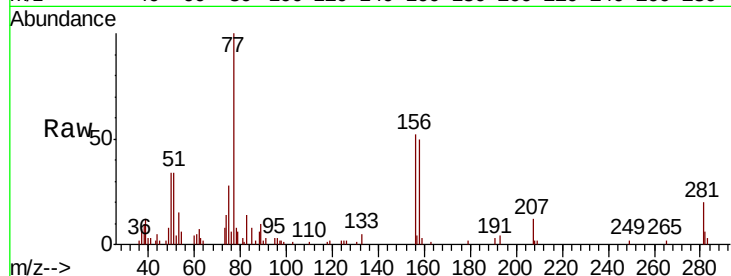
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:	156	Resp:	12418
Ion Ratio	Lower	Upper	
156	100		
77	236.6	115.8	347.3
158	96.9	48.9	146.6

Manual Integrations
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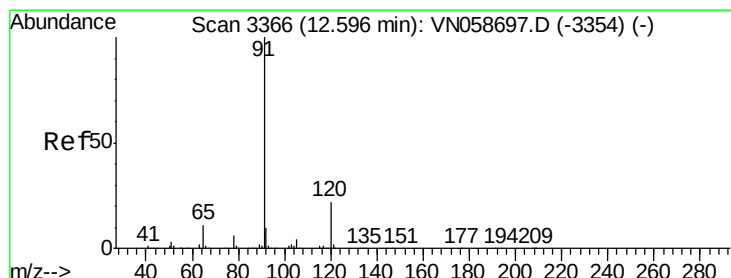
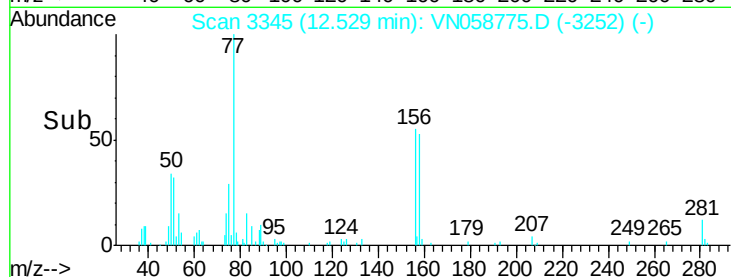
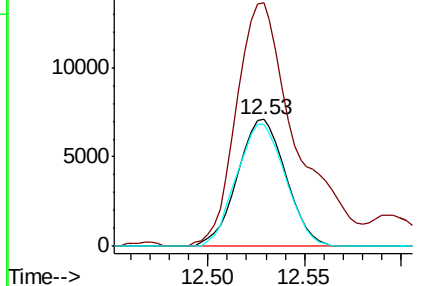
10/18/2019 12:42:34 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 2.767 ug/l

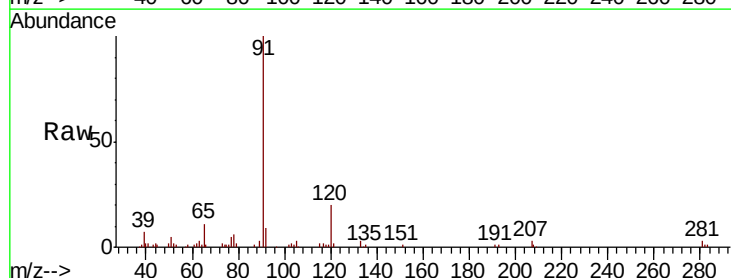
RT: 12.59 min Scan# 3365

Delta R.T. -0.00 min

Lab File: VN058775.D

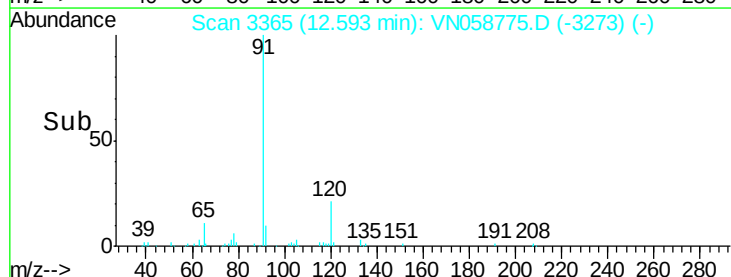
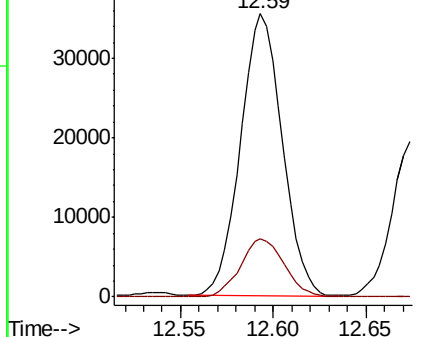
Acq: 15 Oct 2019 12:36

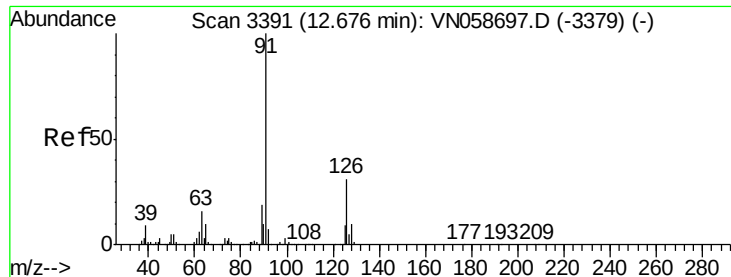
Tgt Ion:	91	Resp:	55334
Ion Ratio	Lower	Upper	
91	100		
120	21.4	11.1	33.3



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 2.829 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 91 Resp: 35115

Ion Ratio Lower Upper

91 100

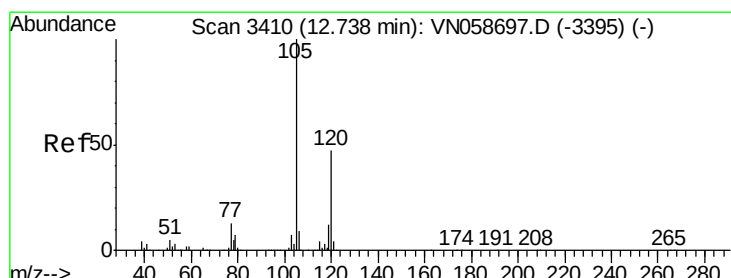
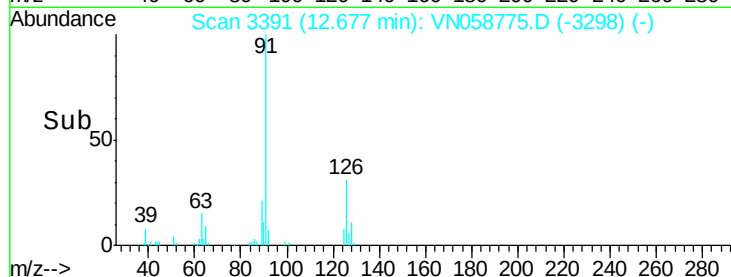
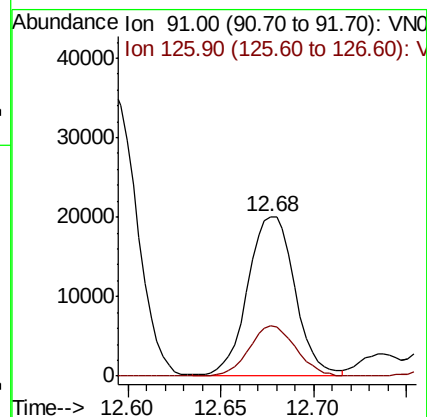
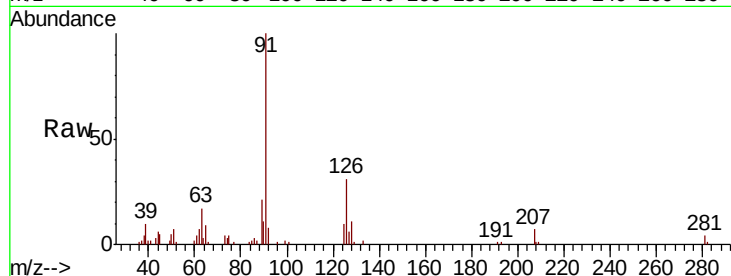
126 31.4 16.2 48.5

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 2.675 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN058775.D

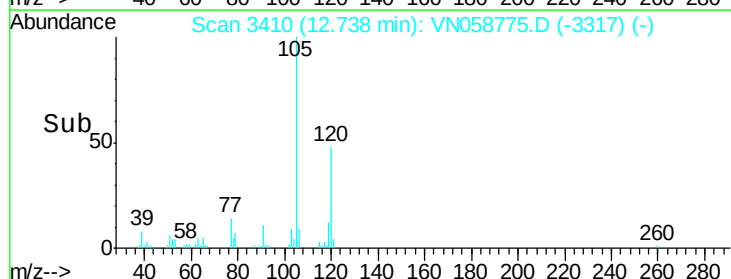
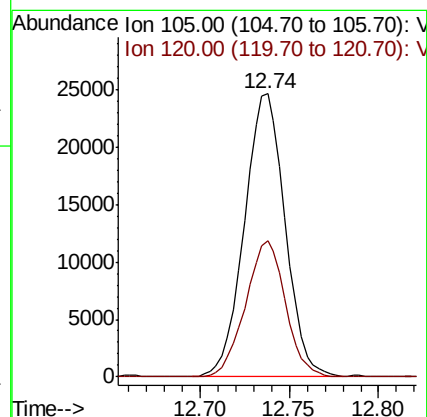
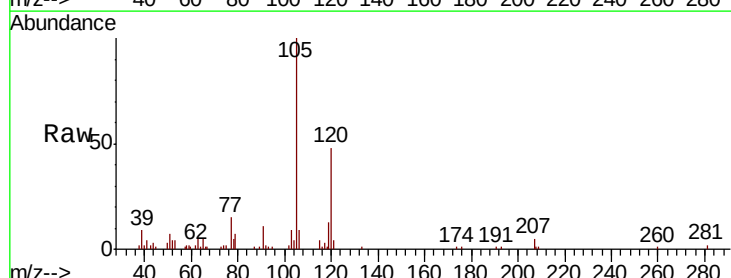
Acq: 15 Oct 2019 12:36

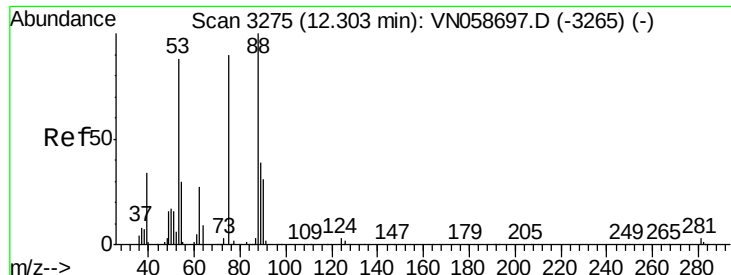
Tgt Ion: 105 Resp: 39189

Ion Ratio Lower Upper

105 100

120 47.1 23.4 70.2





#81

trans-1,4-Dichloro-2-butene

Concen: 2.780 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

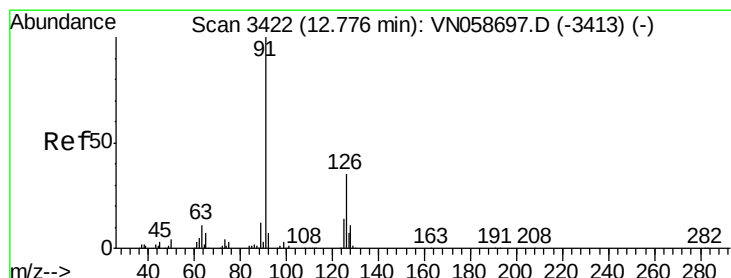
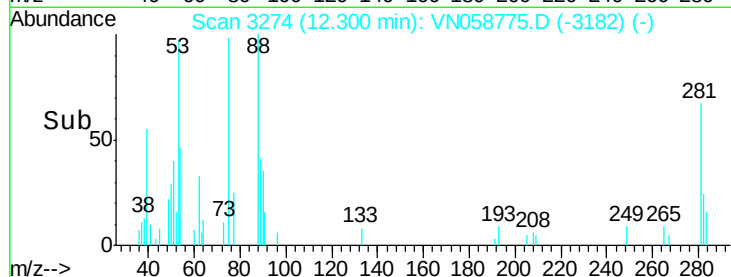
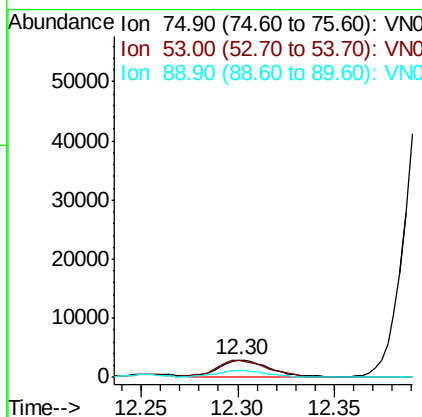
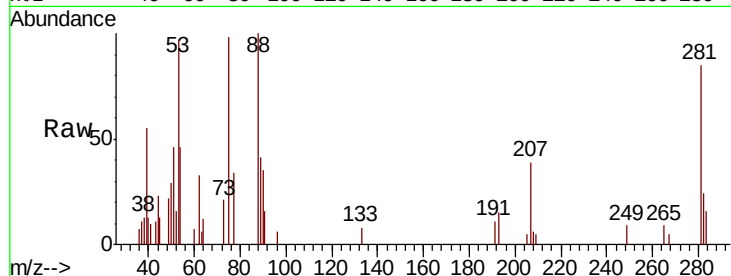
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:	75	Resp:	5396
Ion	Ratio	Lower	Upper
75	100		
53	98.5	78.4	117.6
89	39.5	34.9	52.3

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#82

4-Chlorotoluene

Concen: 2.616 ug/l

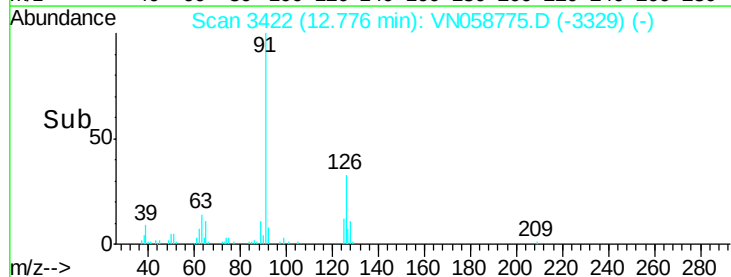
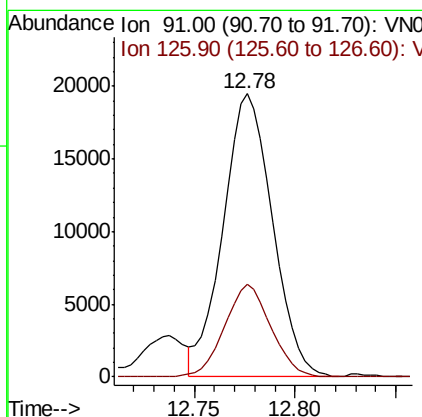
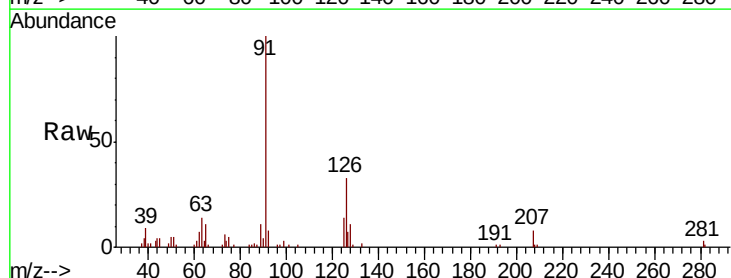
RT: 12.78 min Scan# 3422

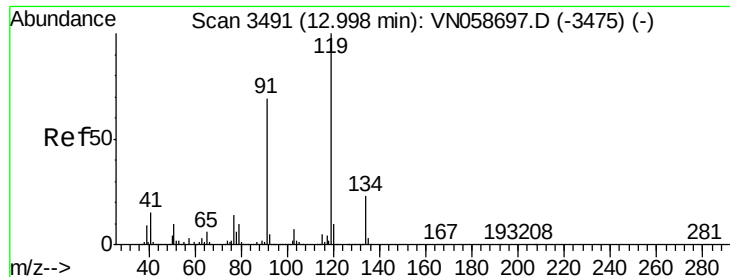
Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Tgt Ion:	91	Resp:	33328
Ion	Ratio	Lower	Upper
91	100		
126	30.6	15.9	47.6





#83

tert-Butylbenzene

Concen: 2.707 ug/l

RT: 13.00 min Scan# 3491

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

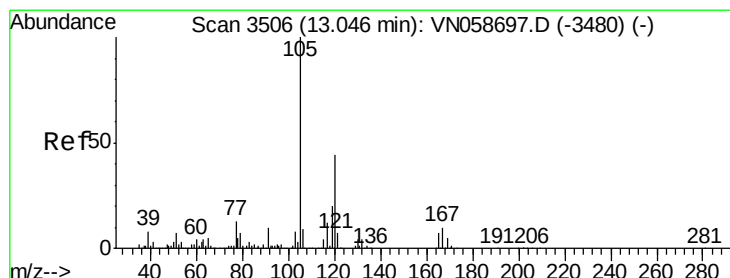
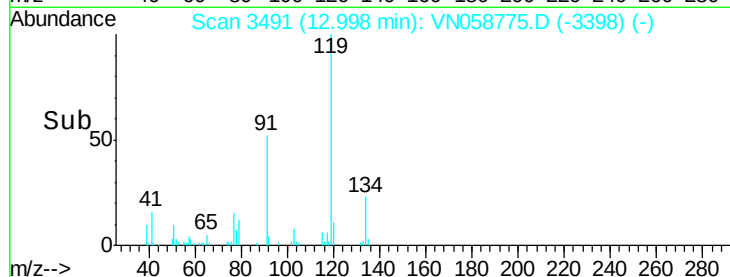
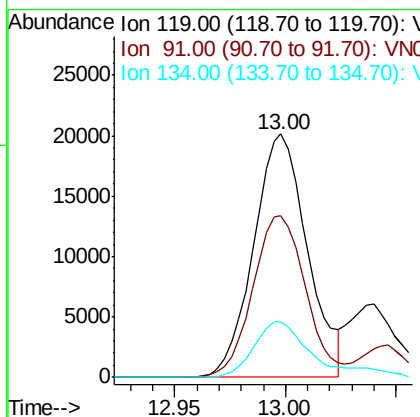
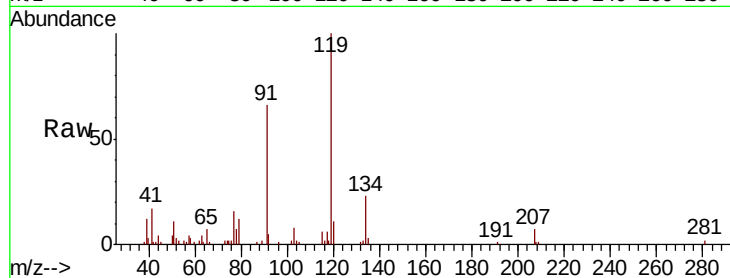
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:	119	Resp:	33977
Ion Ratio	Lower	Upper	
119	100		
91	65.5	33.8	101.3
134	25.1	12.6	37.6

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 2.542 ug/l

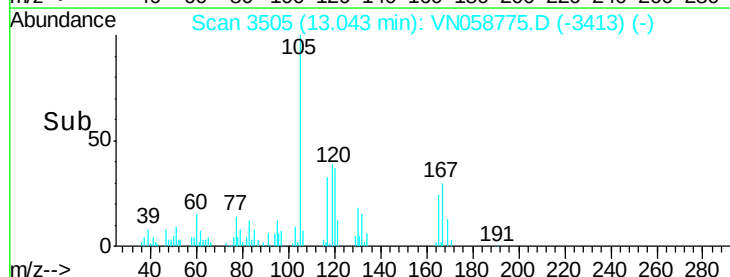
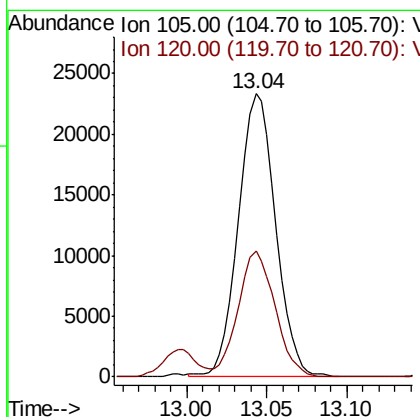
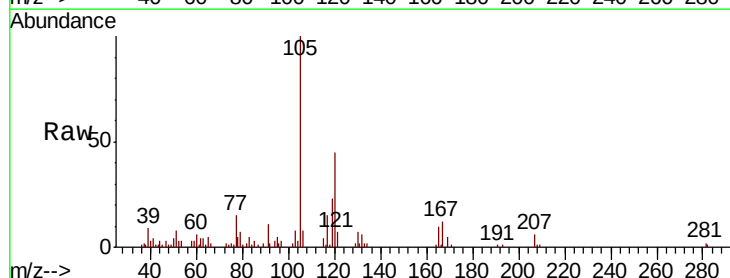
RT: 13.04 min Scan# 3505

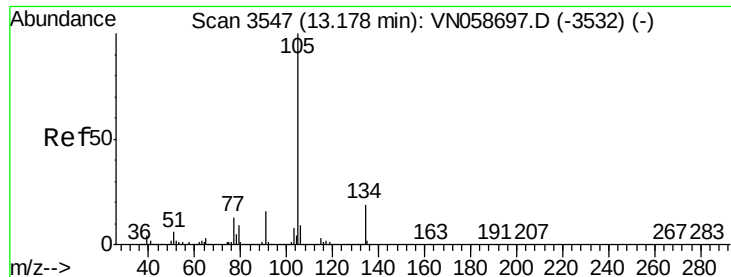
Delta R.T. -0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Tgt Ion:	105	Resp:	36970
Ion Ratio	Lower	Upper	
105	100		
120	44.2	21.9	65.7





#85
 sec-Butylbenzene
 Concen: 2.586 ug/l
 RT: 13.17 min Scan# 3546
 Delta R.T. -0.00 min
 Lab File: VN058775.D
 Acq: 15 Oct 2019 12:36

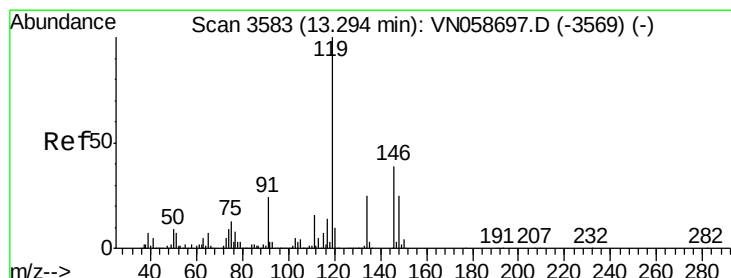
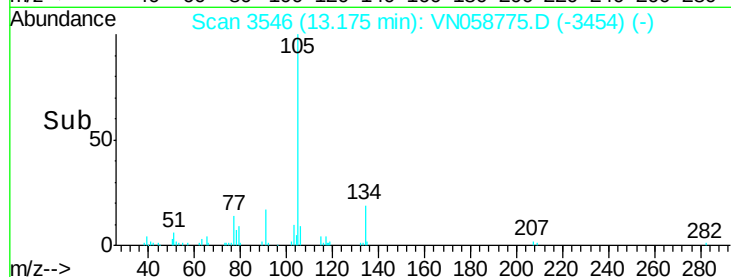
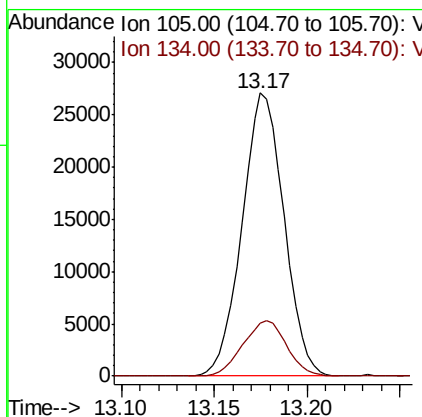
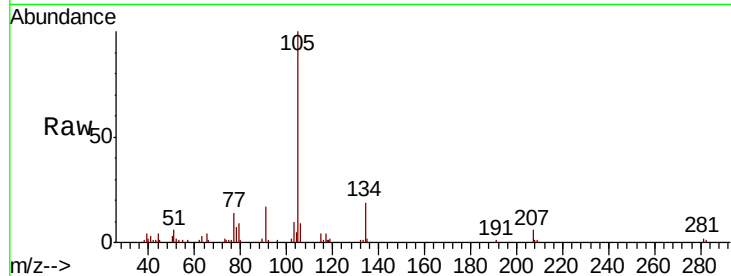
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.2	9.7	29.1

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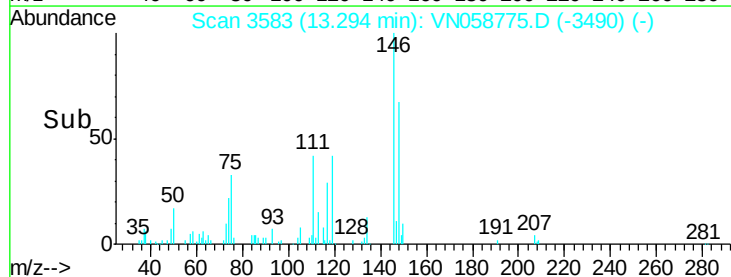
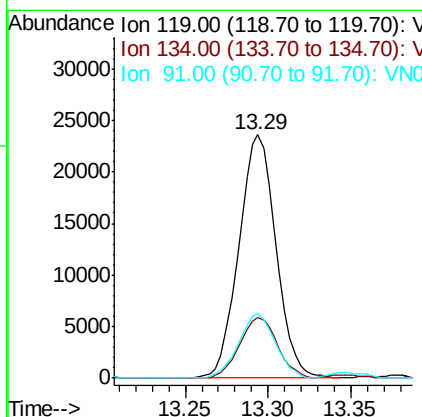
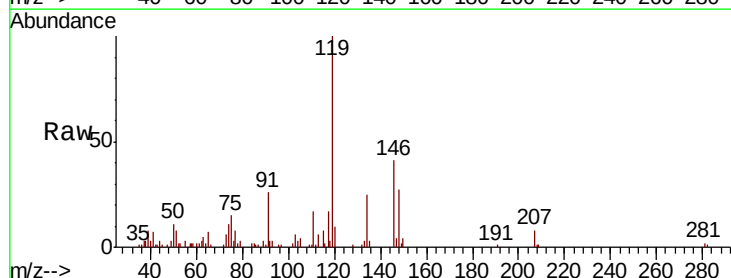
MMDadoda

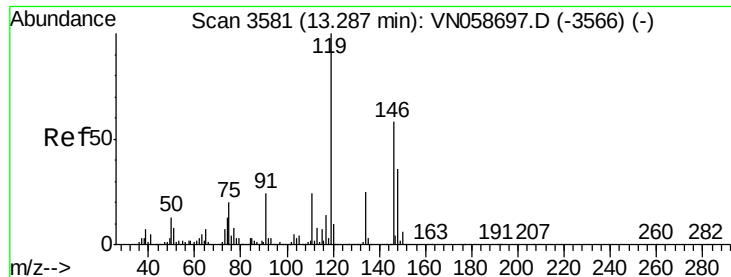
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#86
 p-Isopropyltoluene
 Concen: 2.432 ug/l
 RT: 13.29 min Scan# 3583
 Delta R.T. 0.00 min
 Lab File: VN058775.D
 Acq: 15 Oct 2019 12:36

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.7	38.1
91	26.2	11.9	35.5





#87

1,3-Dichlorobenzene

Concen: 2.715 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :
MSVOA_N

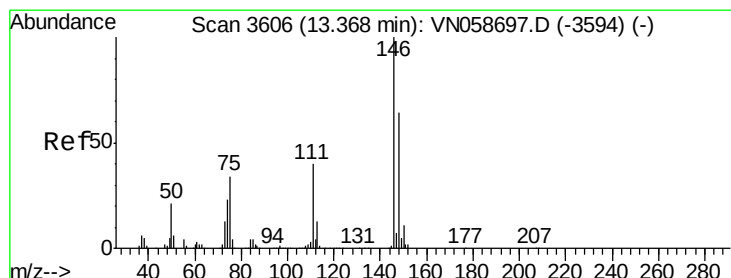
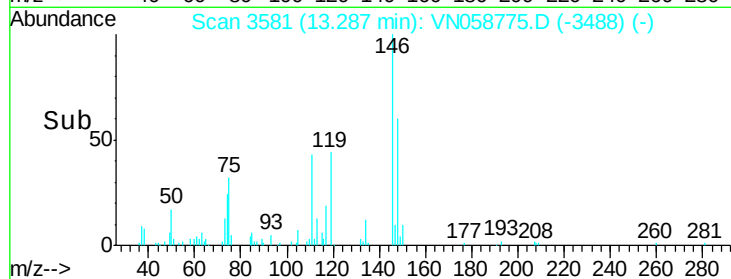
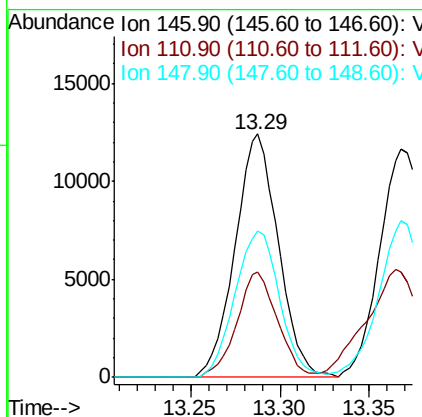
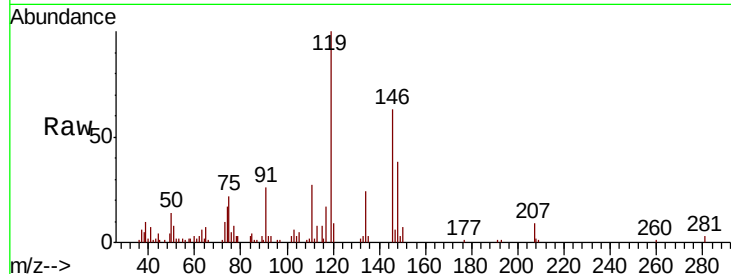
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.8	20.5	61.6
148	62.0	31.3	93.9

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#88

1,4-Dichlorobenzene

Concen: 2.574 ug/l

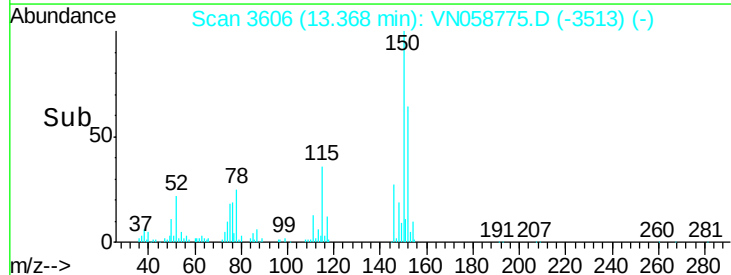
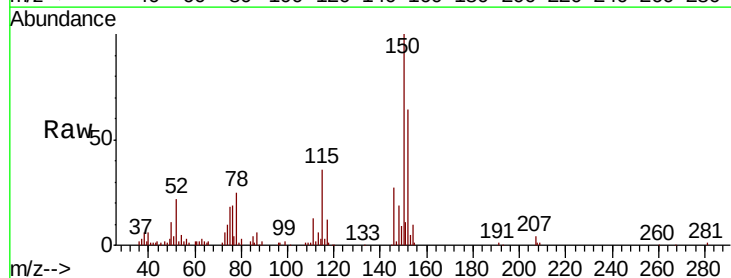
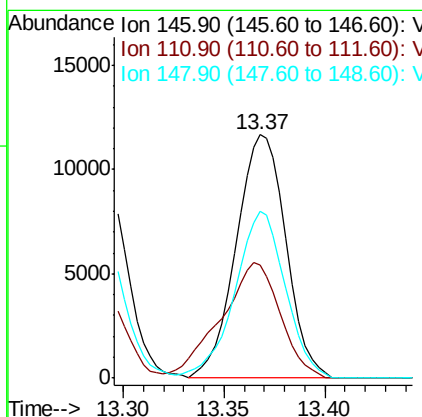
RT: 13.37 min Scan# 3606

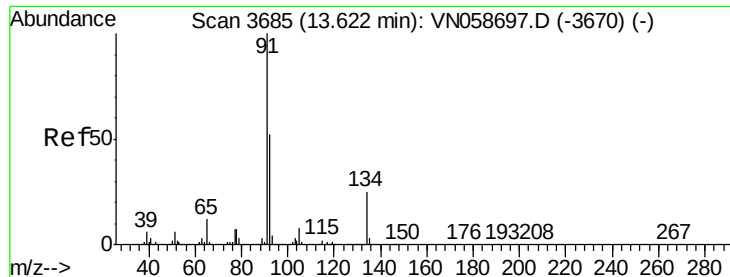
Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Tgt Ion	Ratio	Lower	Upper
146	100		
111	56.4	20.1	60.2
148	69.7	31.9	95.7





#89
n-Butylbenzene
Concen: 2.382 ug/l
RT: 13.62 min Scan# 3684
Delta R.T. -0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

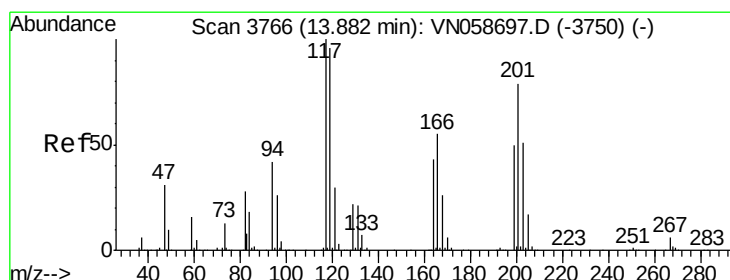
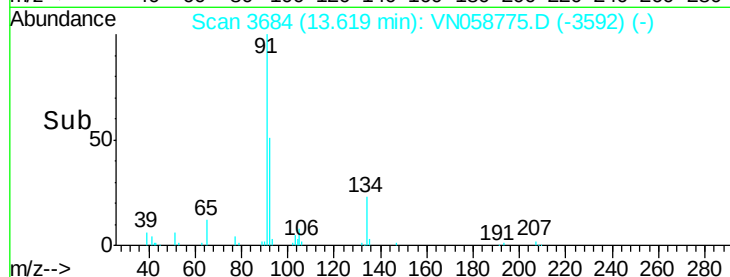
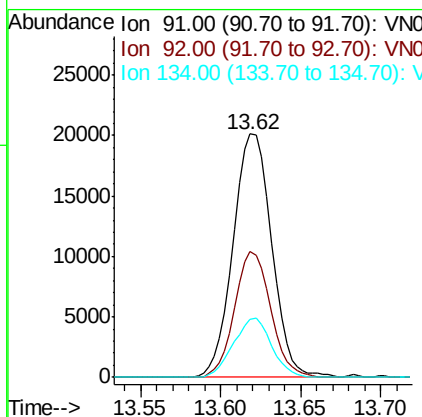
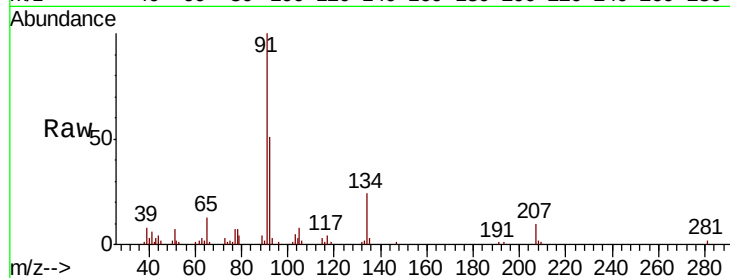
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
91	100		
92	48.0	26.0	78.0
134	23.9	12.2	36.6

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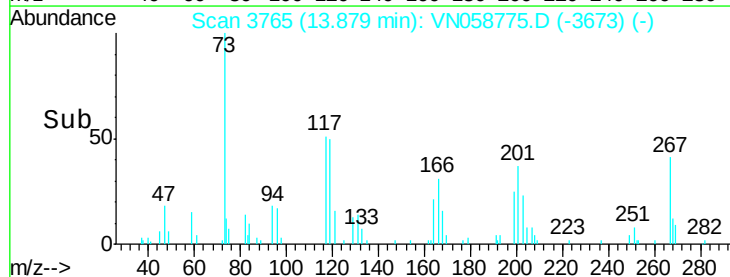
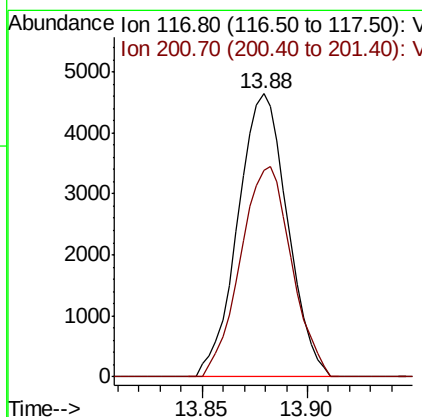
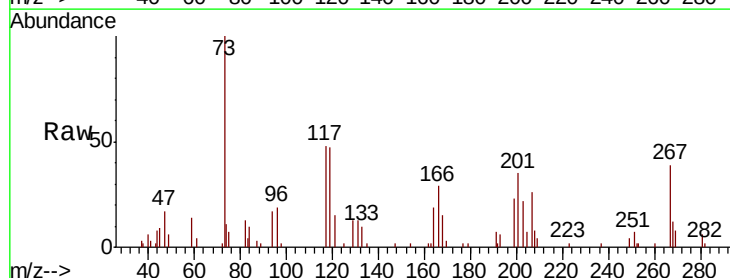
MMDadoda

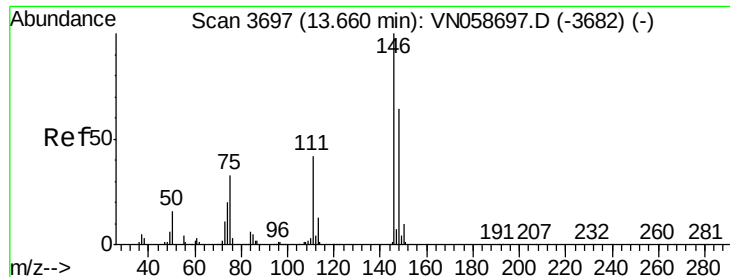
10/18/2019 12:42:34 AM



#90
Hexachloroethane
Concen: 2.823 ug/l
RT: 13.88 min Scan# 3765
Delta R.T. -0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

Tgt Ion	Ratio	Lower	Upper
117	100		
201	76.4	39.6	118.7





#91
 1,2-Dichlorobenzene
 Concen: 2.678 ug/l
 RT: 13.66 min Scan# 3697
 Delta R.T. 0.00 min
 Lab File: VN058775.D
 Acq: 15 Oct 2019 12:36

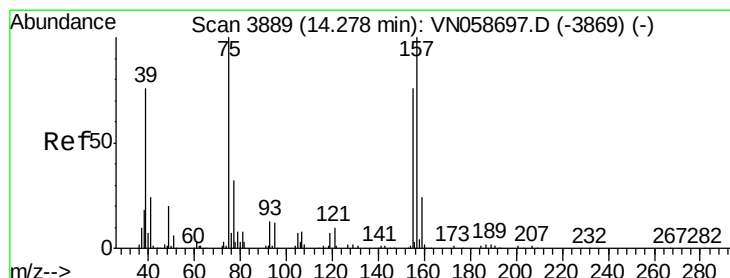
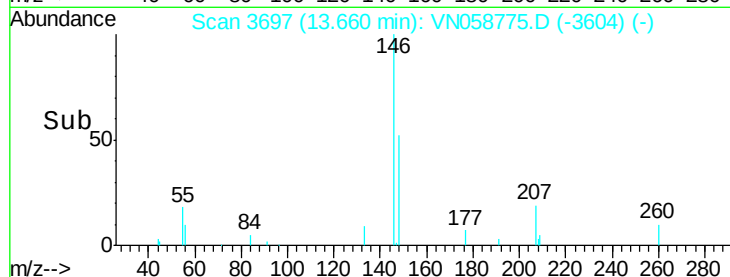
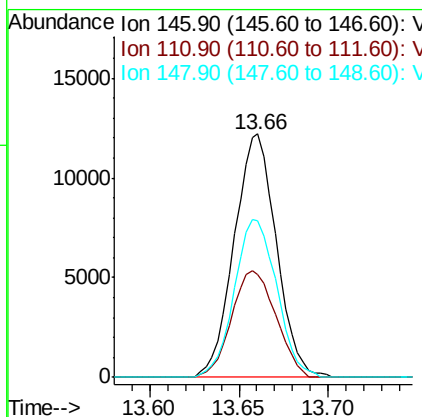
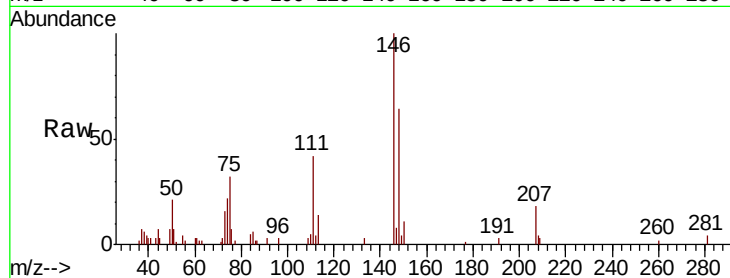
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.0	21.1	63.4
148	65.2	31.8	95.3

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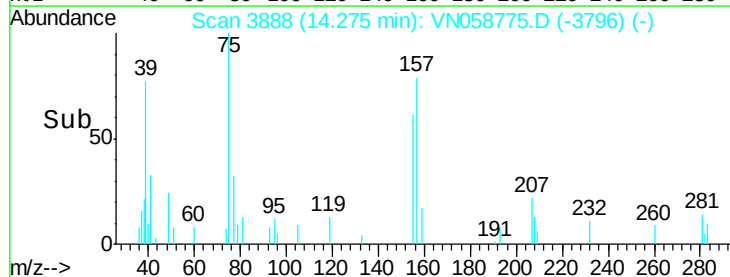
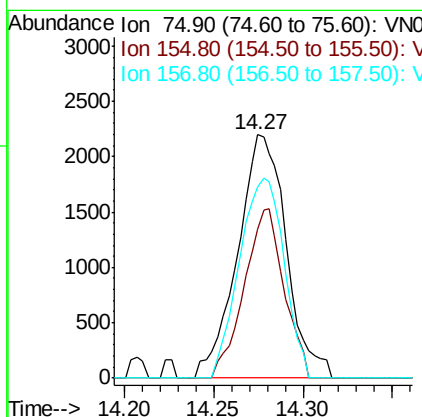
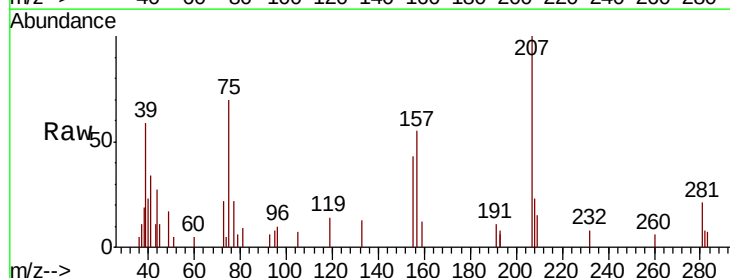
MMDadoda

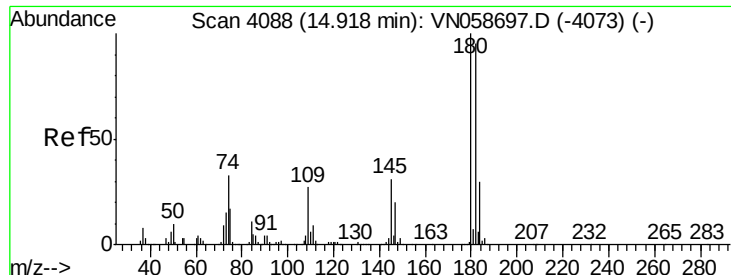
10/18/2019 12:42:34 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.172 ug/l
 RT: 14.27 min Scan# 3888
 Delta R.T. -0.00 min
 Lab File: VN058775.D
 Acq: 15 Oct 2019 12:36

Tgt Ion	Ratio	Lower	Upper
75	100		
155	57.1	37.9	113.6
157	75.6	49.4	148.2





#93
 1,2,4-Trichlorobenzene
 Concen: 2.076 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. -0.00 min
 Lab File: VN058775.D
 Acq: 15 Oct 2019 12:36

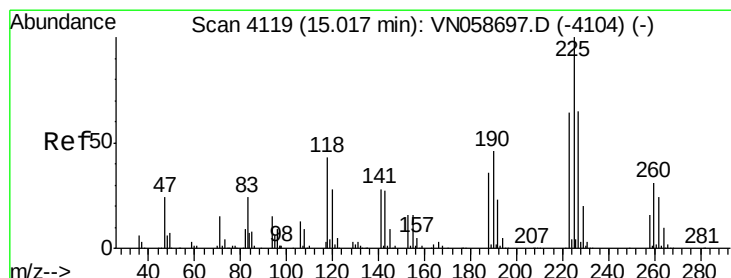
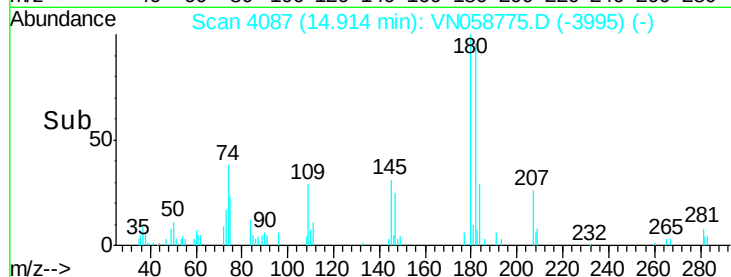
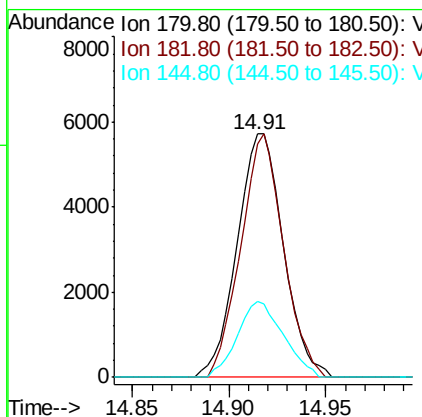
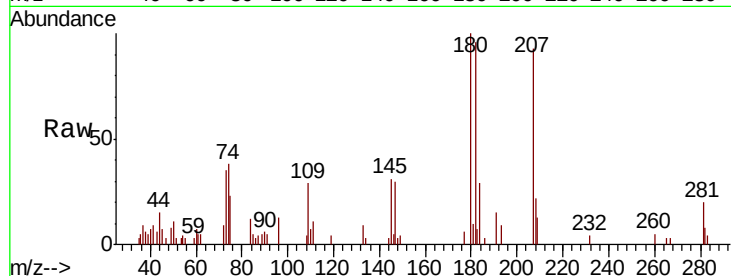
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.3	47.4	142.2
145	30.9	15.4	46.2

Manual Integrations
 APPROVED

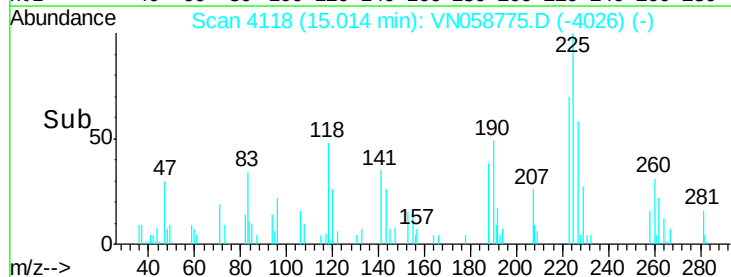
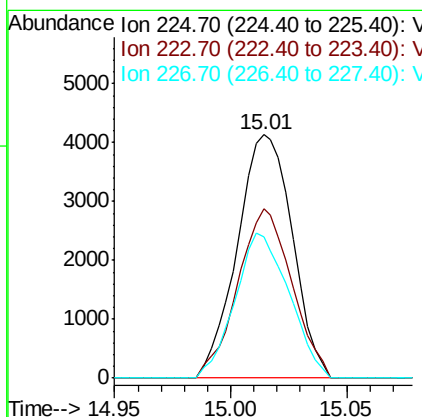
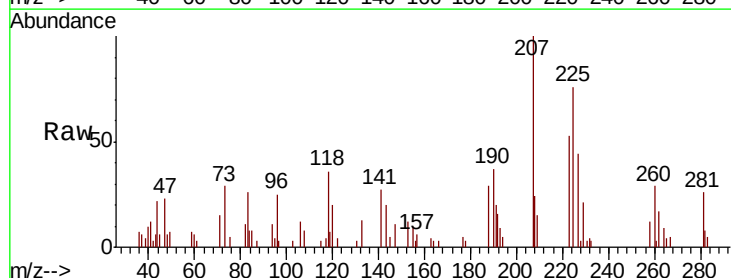
MMDadoda

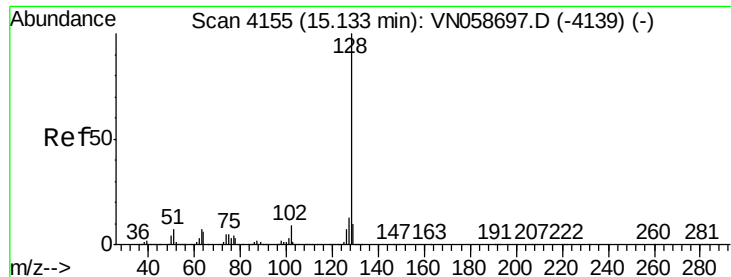
10/18/2019 12:42:34 AM



#94
 Hexachlorobutadiene
 Concen: 2.827 ug/l
 RT: 15.01 min Scan# 4118
 Delta R.T. -0.00 min
 Lab File: VN058775.D
 Acq: 15 Oct 2019 12:36

Tgt Ion	Ratio	Lower	Upper
225	100		
223	68.3	32.3	96.8
227	58.6	32.4	97.0





#95

Naphthalene

Concen: 1.938 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

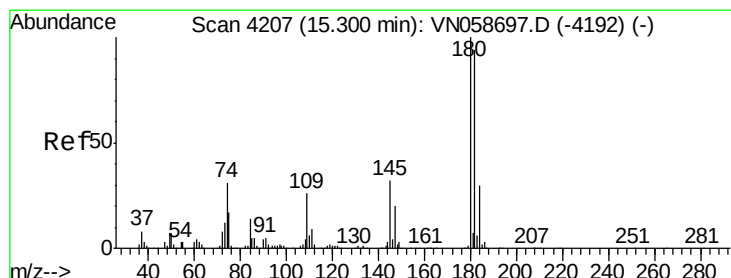
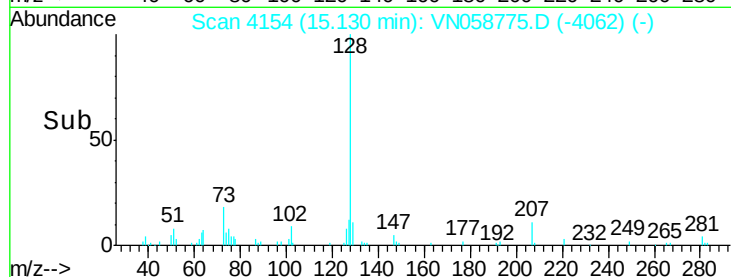
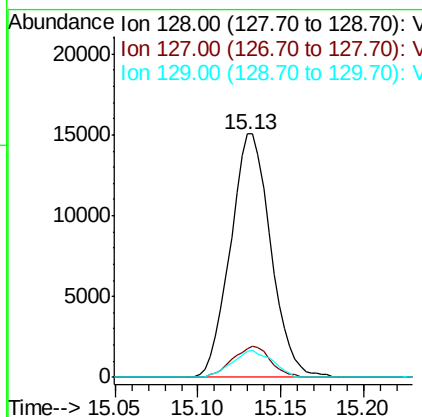
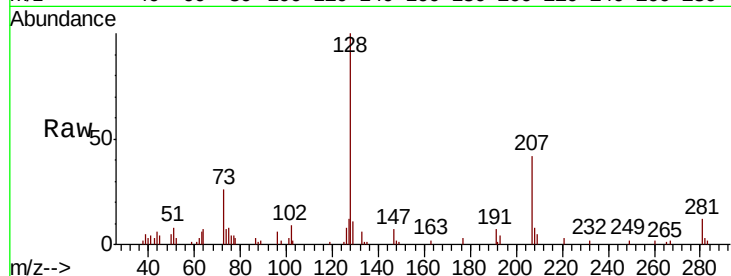
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:	128	Resp:	25498
Ion Ratio	Lower	Upper	
128	100		
127	12.0	10.2	15.4
129	11.0	8.5	12.7

Manual Integrations
APPROVED

MMDadoda

10/18/2019 12:42:34 AM



#96

1,2,3-Trichlorobenzene

Concen: 2.129 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Tgt Ion:	180	Resp:	9515
Ion Ratio	Lower	Upper	
180	100		
182	94.3	47.3	142.0
145	39.7	16.2	48.6

