

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

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

Quant Time: Oct 12 00:11:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	423290	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	692877	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	634485	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	287459	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	326026	55.02	ug/l	0.00
Spiked Amount			Recovery	=	110.04%	
35) Dibromofluoromethane	7.57	113	235085	54.93	ug/l	0.00
Spiked Amount			Recovery	=	109.86%	
50) Toluene-d8	10.09	98	897992	52.47	ug/l	0.00
Spiked Amount			Recovery	=	104.94%	
62) 4-Bromofluorobenzene	12.40	95	320428	49.46	ug/l	0.00
Spiked Amount			Recovery	=	98.92%	

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

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

39) Methylcyclohexane	9.07	83	39661	4.879	ug/l	96
40) Benzene	8.02	78	101787	5.059	ug/l	98
41) Methacrylonitrile	7.19	41	53584	16.157	ug/l #	27
42) 1,2-Dichloroethane	8.11	62	39684	5.134	ug/l	99
43) Isopropyl Acetate	8.15	43	59716	4.948	ug/l	100
44) Trichloroethene	8.82	130	24361	4.876	ug/l	100
45) 1,2-Dichloropropane	9.11	63	27522	5.110	ug/l	100
46) Dibromomethane	9.20	93	18004	5.272	ug/l	97
47) Bromodichloromethane	9.39	83	36035	5.182	ug/l	97
48) Methyl methacrylate	9.19	41	26740	4.888	ug/l	97
49) 1,4-Dioxane	9.19	88	8522	100.687	ug/l	96
51) 4-Methyl-2-Pentanone	9.98	43	172160	25.399	ug/l	99
52) Toluene	10.15	92	61503	4.998	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	37108	4.653	ug/l	93
54) cis-1,3-Dichloropropene	9.83	75	39846	4.706	ug/l	94
55) 1,1,2-Trichloroethane	10.56	97	25920	5.146	ug/l	97
56) Ethyl methacrylate	10.43	69	35069	4.766	ug/l	99
57) 1,3-Dichloropropane	10.71	76	43313	5.047	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.69	63	79925	22.539	ug/l	98
59) 2-Hexanone	10.75	43	130180	24.852	ug/l	99
60) Dibromochloromethane	10.90	129	24326	4.682	ug/l	92
61) 1,2-Dibromoethane	11.00	107	24831	4.921	ug/l	96
64) Tetrachloroethene	10.63	164	23127	5.208	ug/l	95
65) Chlorobenzene	11.43	112	65295	5.067	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	23420	4.915	ug/l	95
67) Ethyl Benzene	11.51	91	114535	4.987	ug/l	97
68) m/p-Xylenes	11.62	106	83704	9.711	ug/l	100
69) o-Xylene	11.95	106	40457	4.851	ug/l	97
70) Styrene	11.97	104	62606	4.580	ug/l	99
71) Bromoform	12.13	173	16153	4.625	ug/l #	98
73) Isopropylbenzene	12.25	105	108383	5.206	ug/l	99
74) N-amyl acetate	12.07	43	44786	4.790	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.51	83	36166	5.273	ug/l	99
76) 1,2,3-Trichloropropane	12.56	75	48718	7.725	ug/l #	100
77) Bromobenzene	12.53	156	26423	5.218	ug/l	99
78) n-propylbenzene	12.59	91	129318	5.331	ug/l	100
79) 2-Chlorotoluene	12.68	91	74118	4.923	ug/l	98
80) 1,3,5-Trimethylbenzene	12.74	105	90637	5.100	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.30	75	10097	4.289	ug/l	83
82) 4-Chlorotoluene	12.78	91	77406	5.010	ug/l	98
83) tert-Butylbenzene	13.00	119	76403	5.018	ug/l	98
84) 1,2,4-Trimethylbenzene	13.05	105	87301	4.948	ug/l	100
85) sec-Butylbenzene	13.18	105	101888	5.078	ug/l	99
86) p-Isopropyltoluene	13.29	119	89812	4.925	ug/l	98
87) 1,3-Dichlorobenzene	13.29	146	45399	4.861	ug/l	97
88) 1,4-Dichlorobenzene	13.37	146	47605	5.014	ug/l	94
89) n-Butylbenzene	13.62	91	76661	4.547	ug/l	100
90) Hexachloroethane	13.88	117	16207	4.967	ug/l	99
91) 1,2-Dichlorobenzene	13.66	146	46874	5.150	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.28	75	8810	5.499	ug/l	86

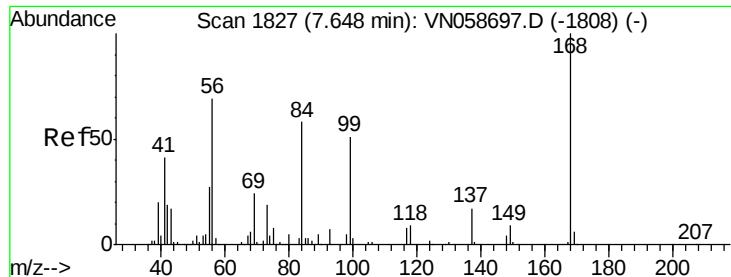
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Response via : Initial Calibration

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

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

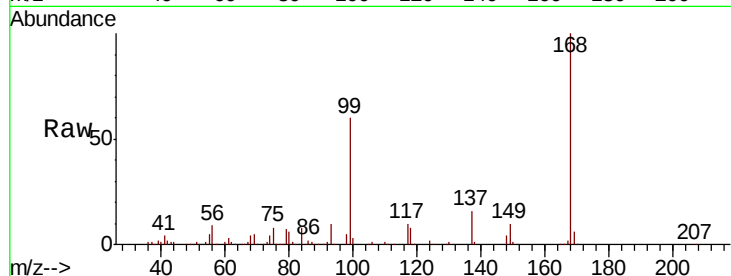
MDL-MDL-WATER-03-QT4-2019

Tot Ion:168 Resp: 423290

Ion Ratio Lower Upper

168 100

99 59.6 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

200000

150000

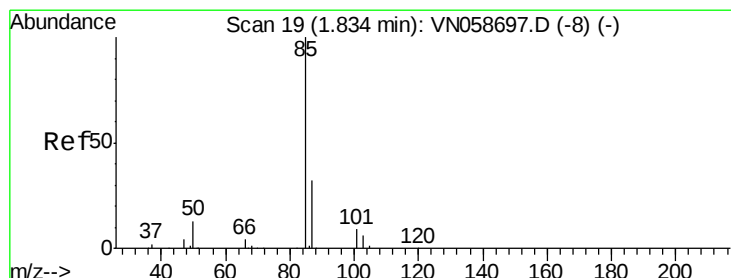
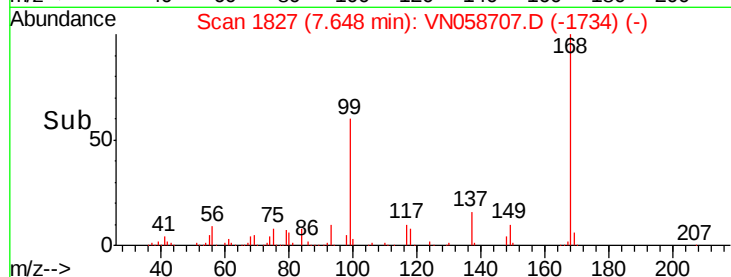
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50000

0

7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 4.807 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN058707.D

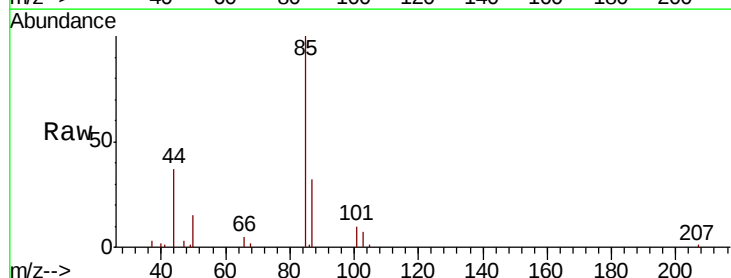
Acq: 11 Oct 2019 16:42

Tgt Ion: 85 Resp: 25344

Ion Ratio Lower Upper

85 100

87 32.1 16.2 48.6



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

20000

15000

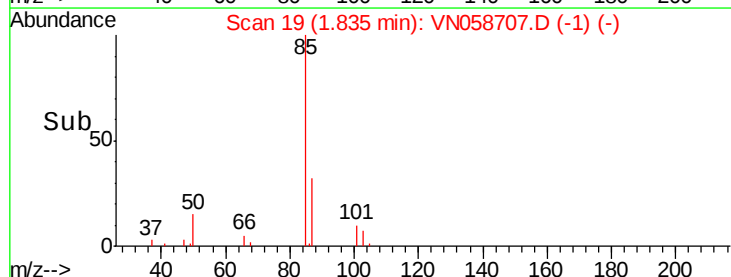
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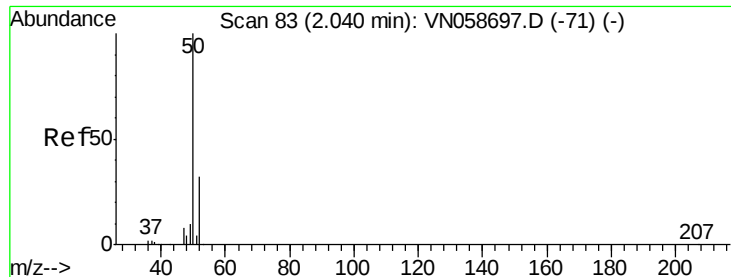
5000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 5.004 ug/l

RT: 2.04 min Scan# 84

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

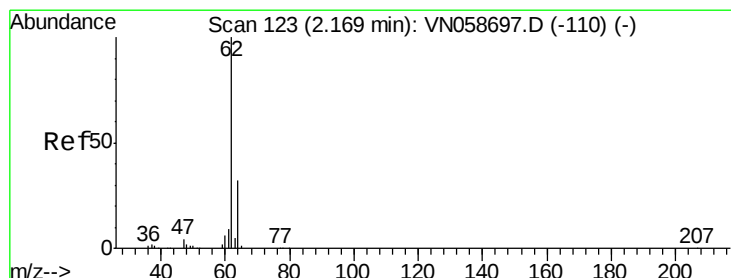
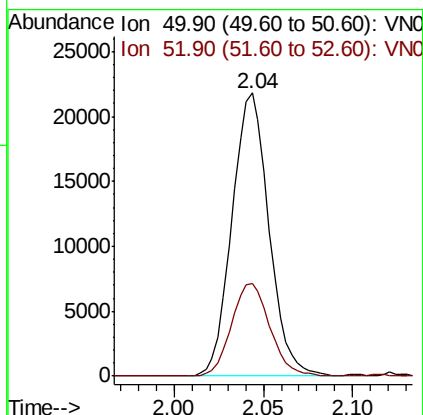
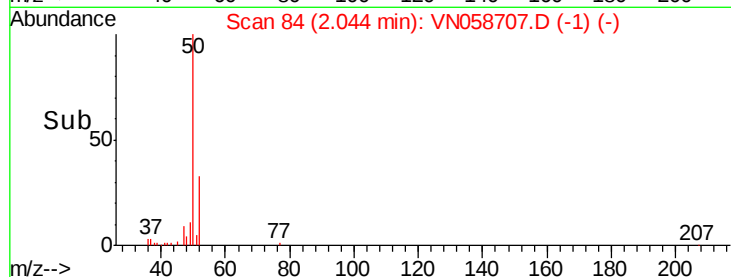
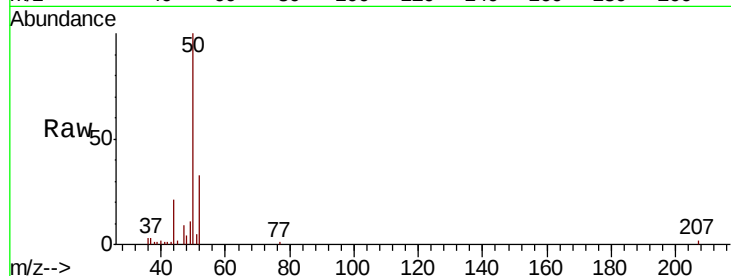
MDL-MDL-WATER-03-QT4-2019

Tot Ion: 50 Resp: 31367

Ion Ratio Lower Upper

50 100

52 32.8 25.8 38.6



#4

Vinyl Chloride

Concen: 5.060 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058707.D

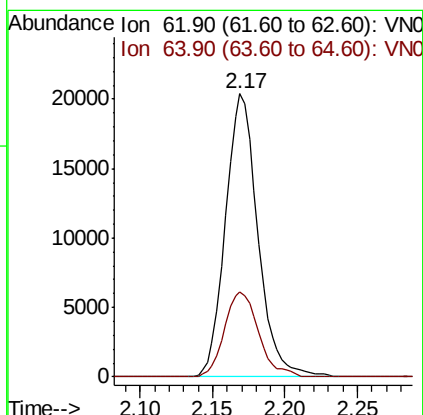
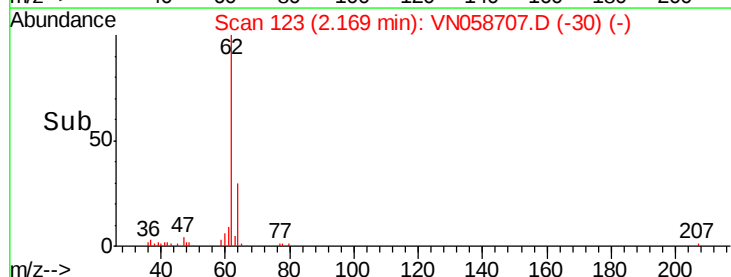
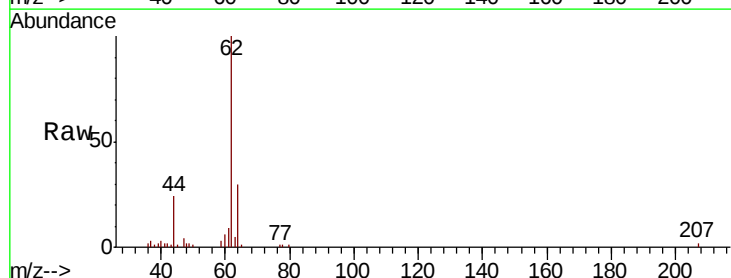
Acq: 11 Oct 2019 16:42

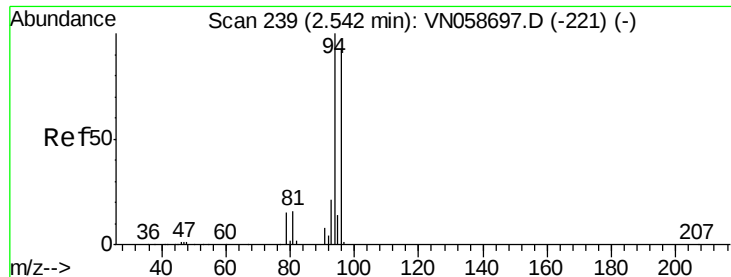
Tgt Ion: 62 Resp: 31595

Ion Ratio Lower Upper

62 100

64 30.1 25.3 37.9





#5

Bromomethane

Concen: 5.395 ug/l

RT: 2.54 min Scan# 238

Delta R.T. -0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

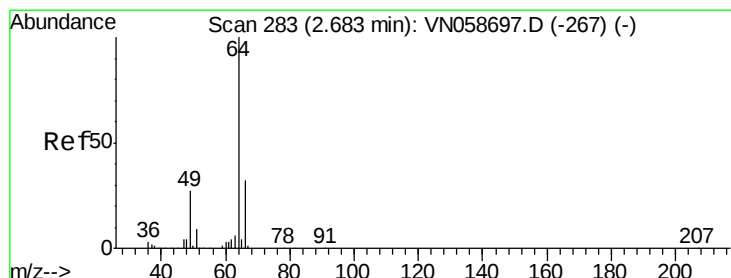
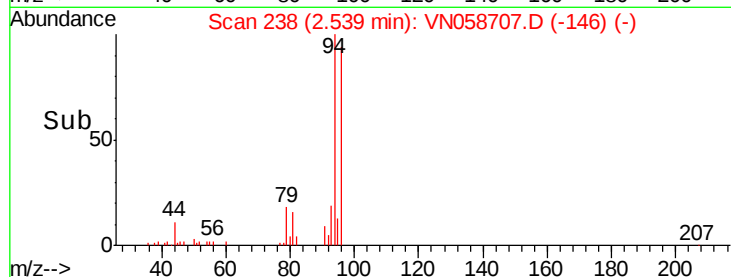
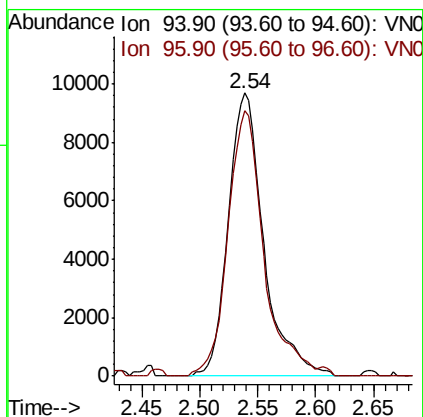
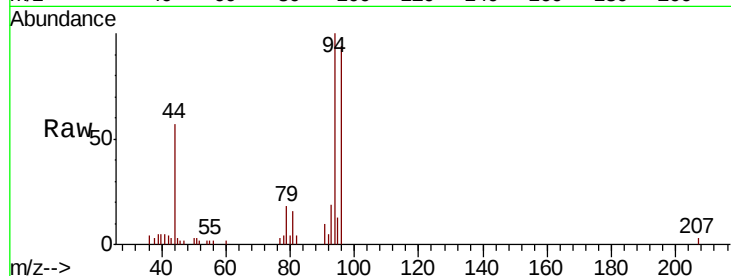
MDL-MDL-WATER-03-QT4-2019

Tot Ion: 94 Resp: 20491

Ion Ratio Lower Upper

94 100

96 93.9 74.5 111.7



#6

Chloroethane

Concen: 5.102 ug/l

RT: 2.68 min Scan# 282

Delta R.T. -0.00 min

Lab File: VN058707.D

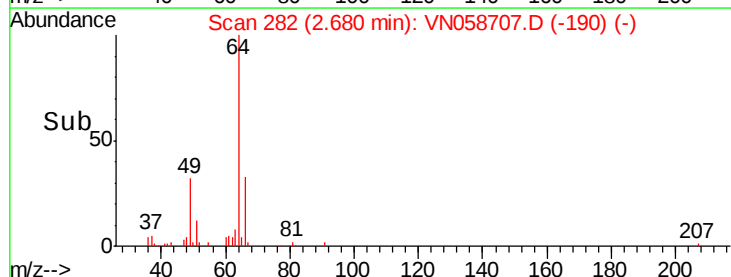
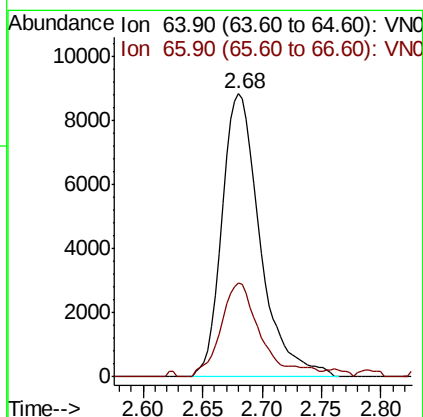
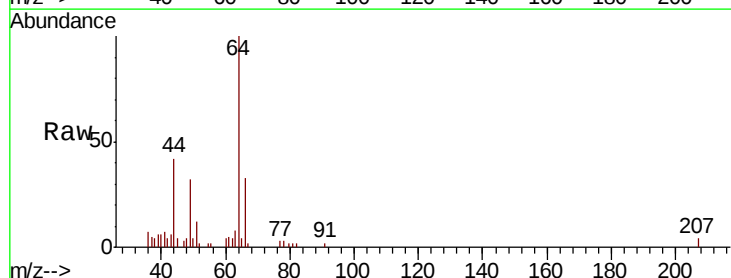
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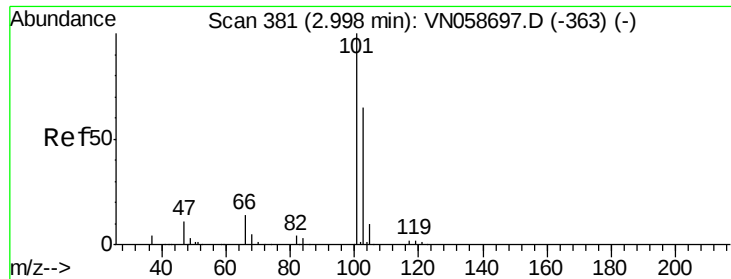
Tgt Ion: 64 Resp: 19650

Ion Ratio Lower Upper

64 100

66 33.1 25.4 38.2



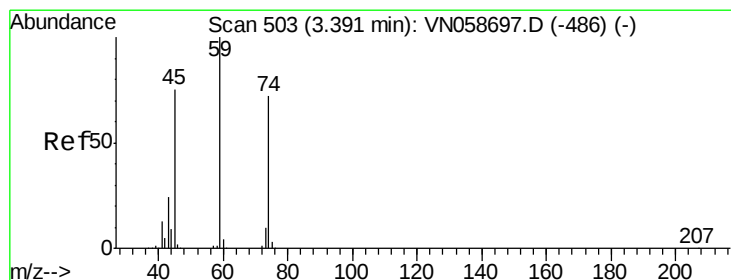
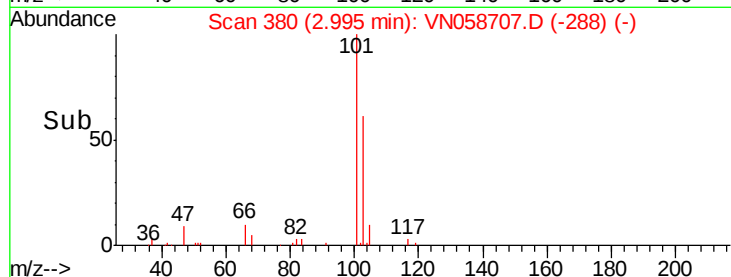
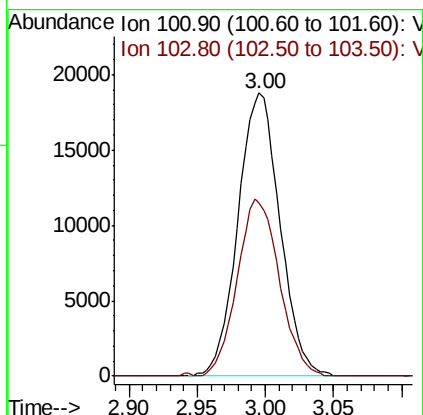
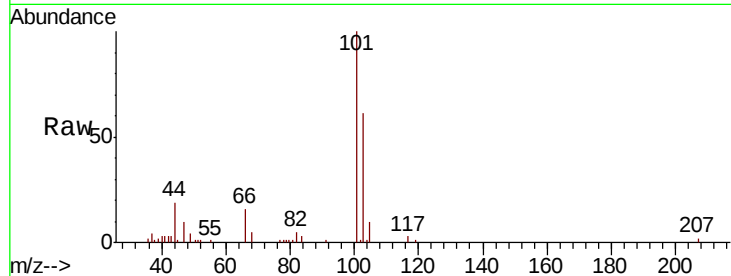


#7

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

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

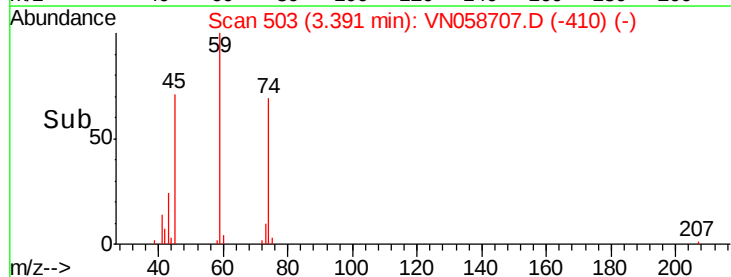
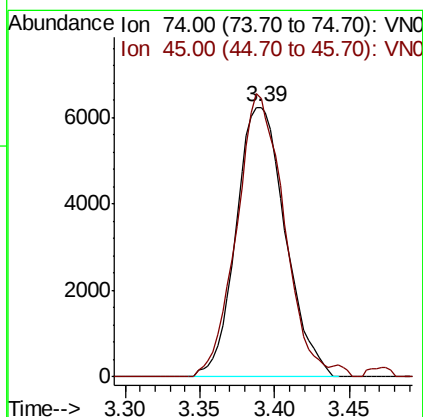
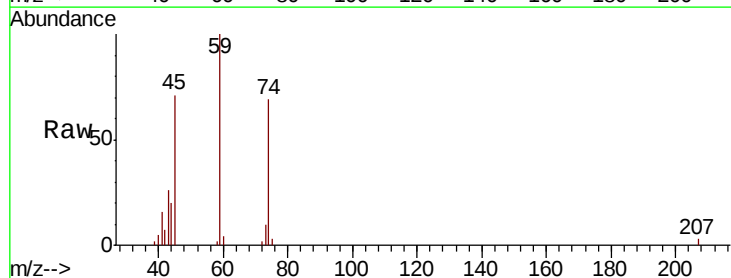
Tot Ion:101 Resp: 40204
 Ion Ratio Lower Upper
 101 100
 103 61.1 51.8 77.6

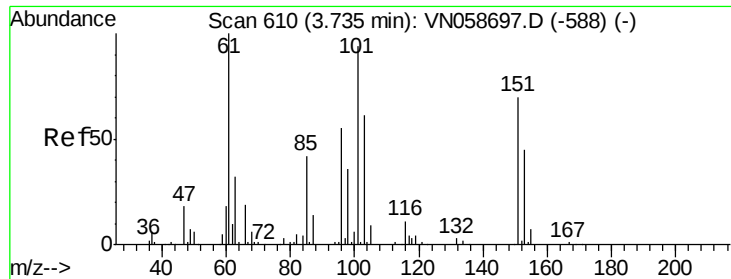


#8

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

Tgt Ion: 74 Resp: 14280
 Ion Ratio Lower Upper
 74 100
 45 102.3 51.3 154.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.307 ug/l

RT: 3.73 min Scan# 610

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

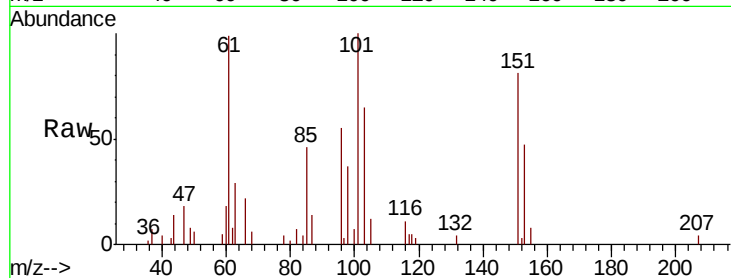
Tot Ion:101 Resp: 22611

Ion Ratio Lower Upper

101 100

85 44.5 37.0 55.6

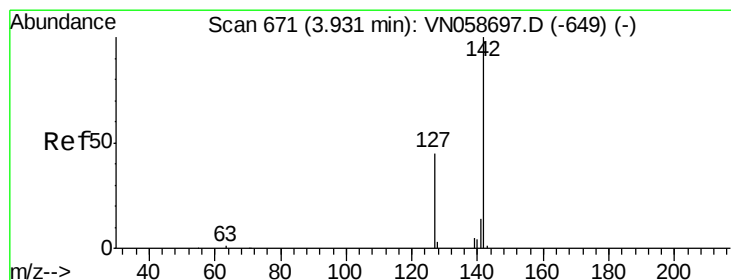
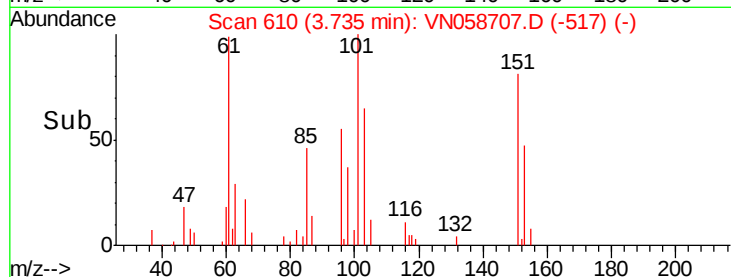
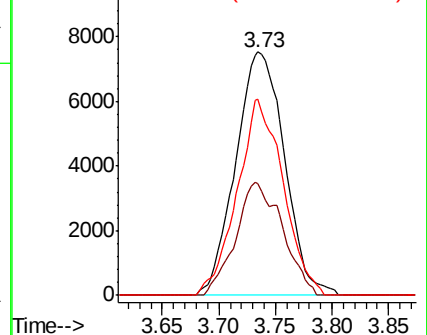
151 75.8 61.8 92.6



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 4.773 ug/l

RT: 3.93 min Scan# 670

Delta R.T. -0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

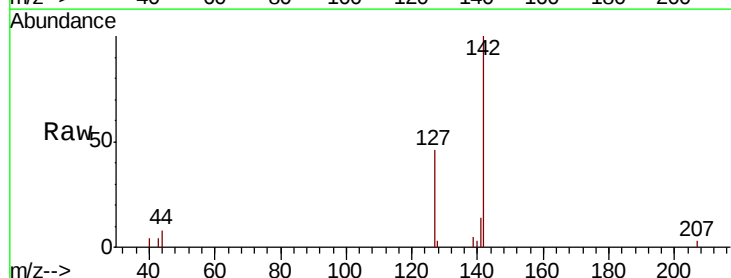
Tgt Ion:142 Resp: 27752

Ion Ratio Lower Upper

142 100

127 43.8 36.4 54.6

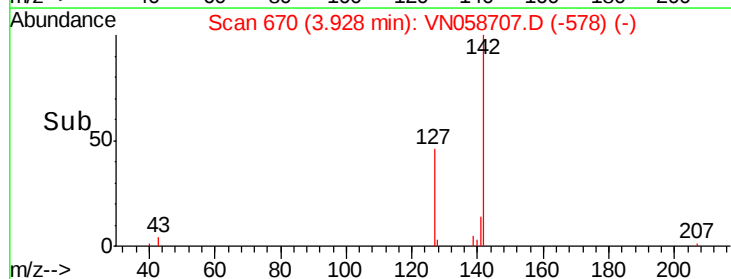
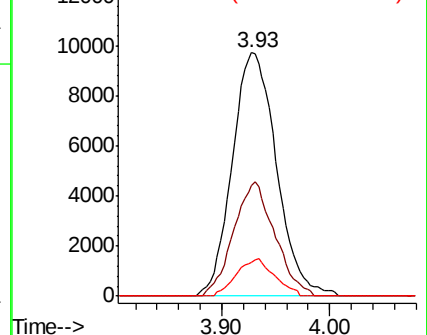
141 13.2 11.1 16.7

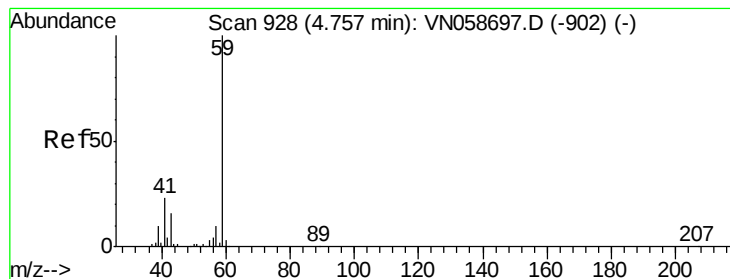


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



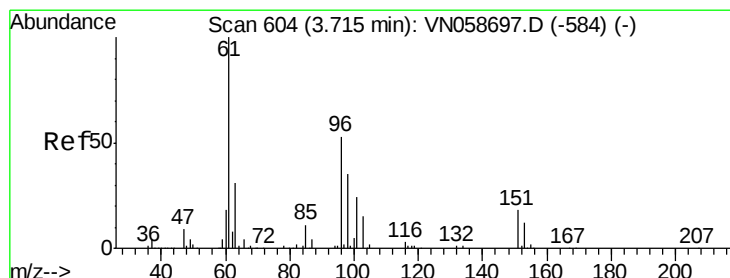
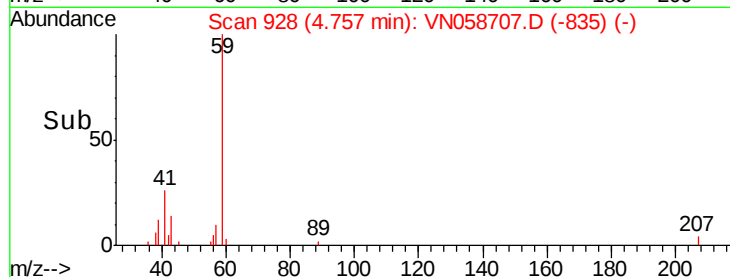
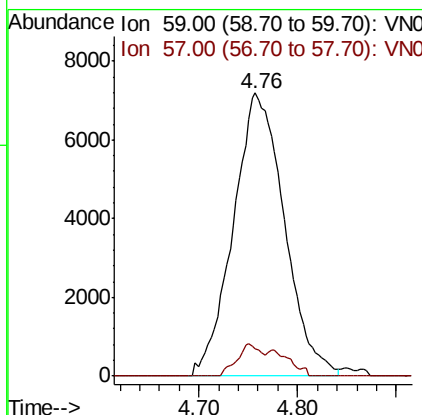
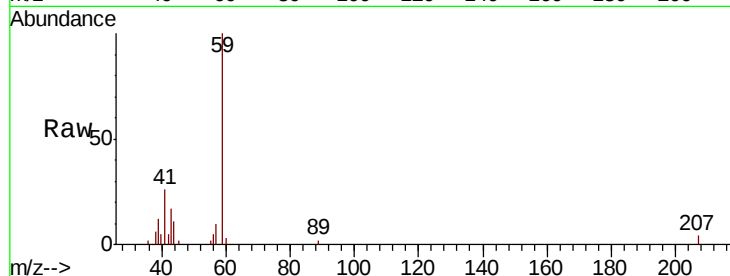


#11

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

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

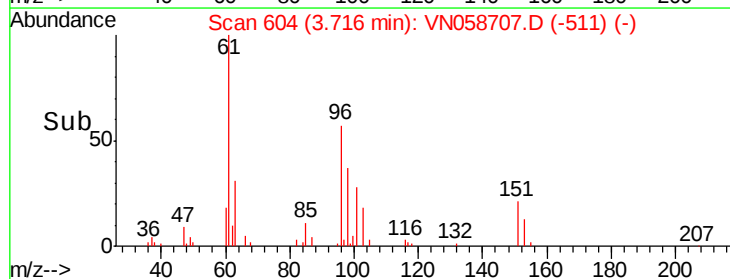
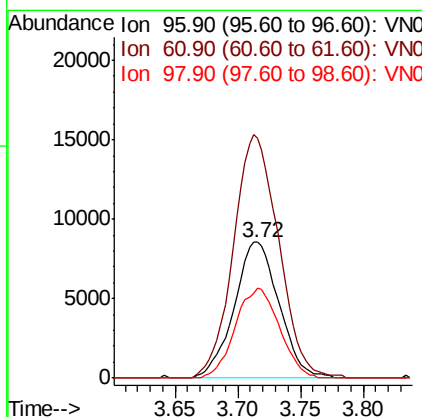
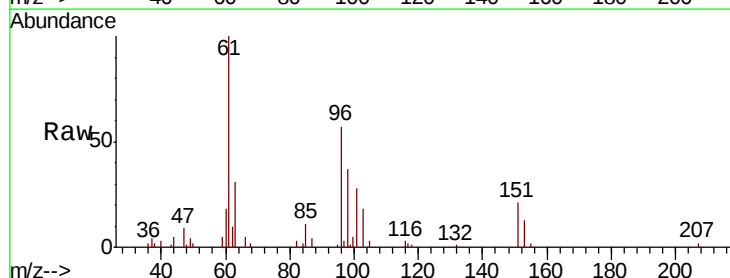
Tot Ion: 59 Resp: 25856
 Ion Ratio Lower Upper
 59 100
 57 5.4 8.4 12.6#

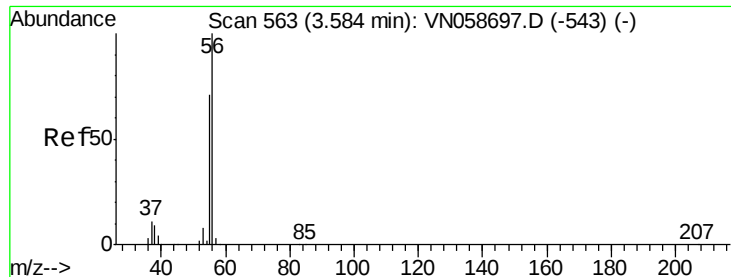


#12

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

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





#13

Acrolein

Concen: 24.651 ug/l

RT: 3.58 min Scan# 563

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

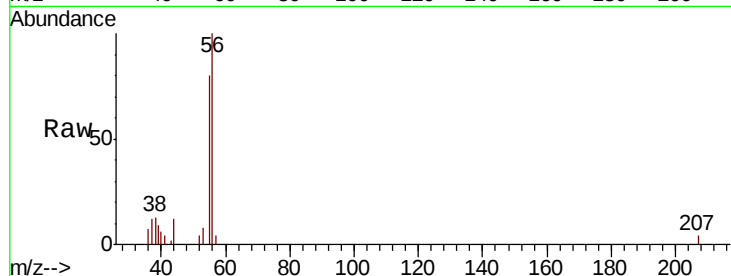
MDL-MDL-WATER-03-QT4-2019

Tot Ion: 56 Resp: 19027

Ion Ratio Lower Upper

56 100

55 74.8 56.7 85.1



Abundance Ion 56.00 (55.70 to 56.70): VN058707.D (-543) (-)

Ion 55.00 (54.70 to 55.70): VN058707.D (-543) (-)

3.58

8000

6000

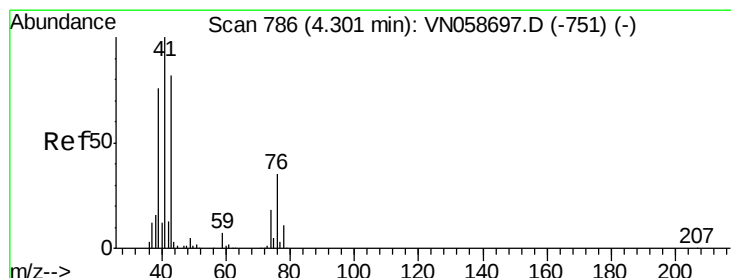
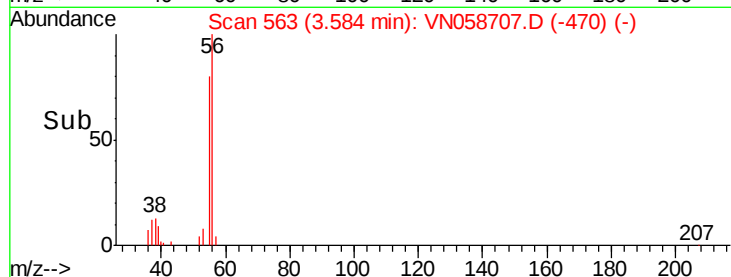
4000

2000

0

Time-->

3.50 3.60 3.70



#14

Allyl chloride

Concen: 4.807 ug/l

RT: 4.30 min Scan# 786

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

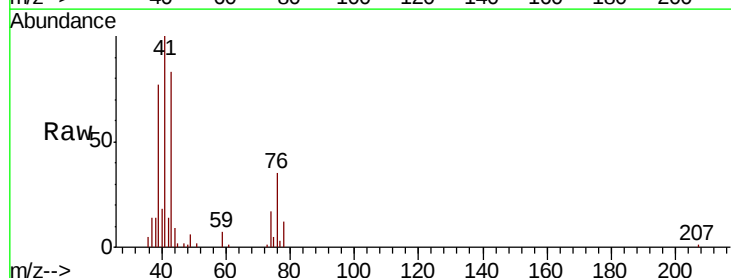
Tgt Ion: 41 Resp: 39434

Ion Ratio Lower Upper

41 100

39 77.3 57.2 85.8

76 32.5 25.0 37.6



Abundance Ion 41.00 (40.70 to 41.70): VN058707.D (-751) (-)

Ion 39.00 (38.70 to 39.70): VN058707.D (-751) (-)

Ion 75.90 (75.60 to 76.60): VN058707.D (-751) (-)

4.30

15000

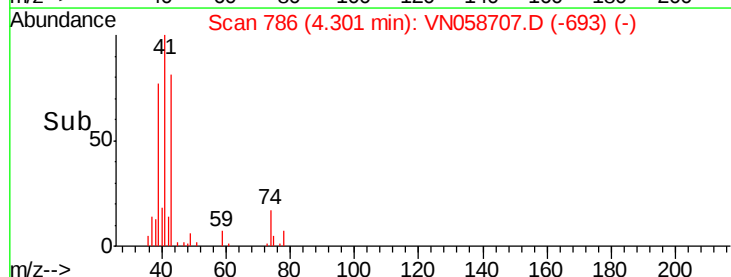
10000

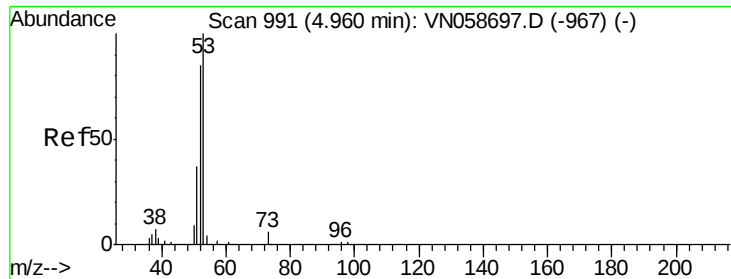
5000

0

Time-->

4.20 4.30 4.40





#15

Acrylonitrile

Concen: 25.062 ug/l

RT: 4.96 min Scan# 992

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

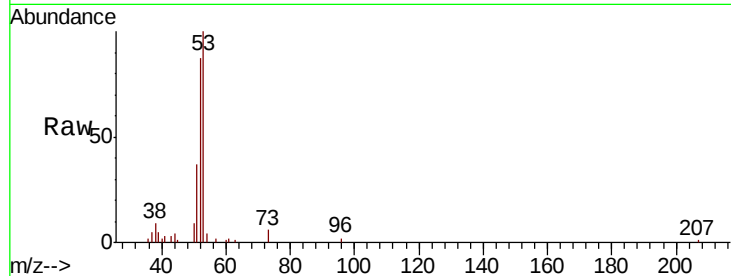
Tot Ion: 53 Resp: 60656

Ion Ratio Lower Upper

53 100

52 86.9 66.2 99.2

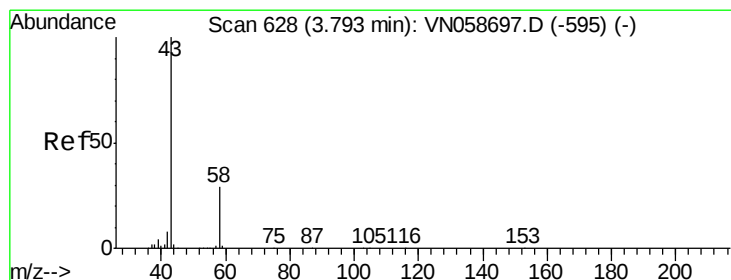
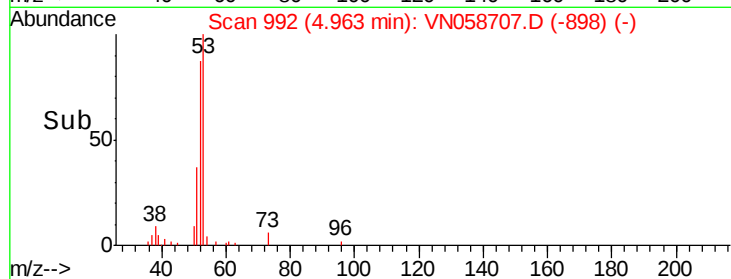
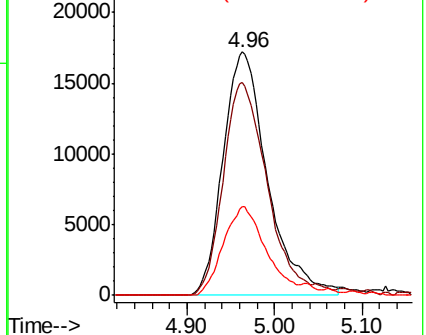
51 34.8 29.4 44.2



Abundance Ion 53.00 (52.70 to 53.70): VN058707.D (-967) (-)

Ion 52.00 (51.70 to 52.70): VN058707.D (-967) (-)

Ion 51.00 (50.70 to 51.70): VN058707.D (-967) (-)



#16

Acetone

Concen: 24.195 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN058707.D

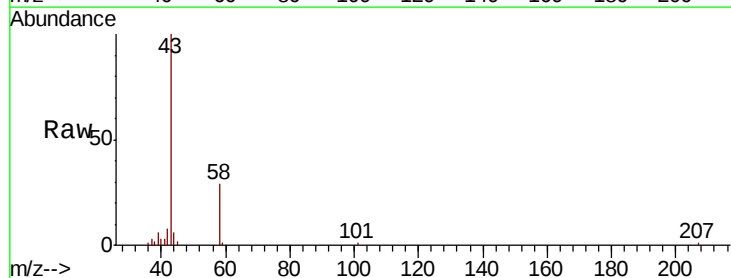
Acq: 11 Oct 2019 16:42

Tgt Ion: 43 Resp: 59358

Ion Ratio Lower Upper

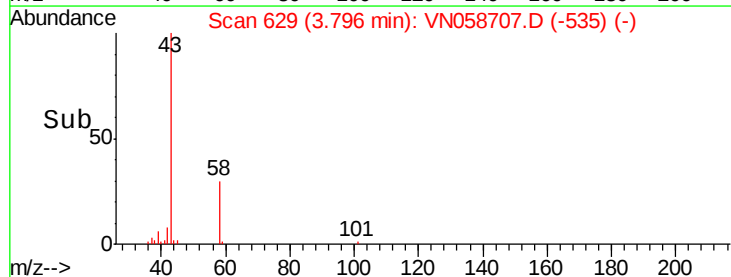
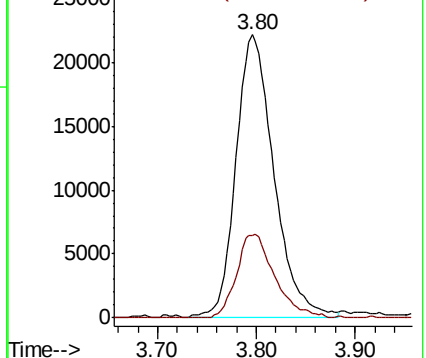
43 100

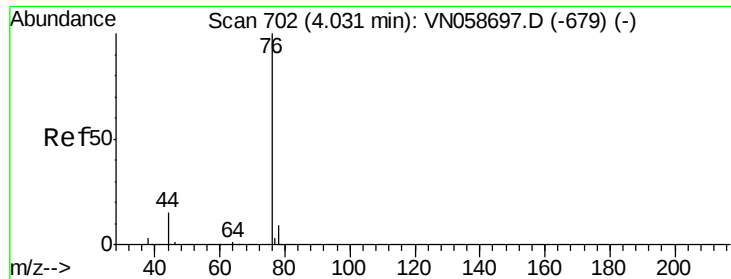
58 29.2 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VN058707.D (-535) (-)

Ion 58.00 (57.70 to 58.70): VN058707.D (-535) (-)

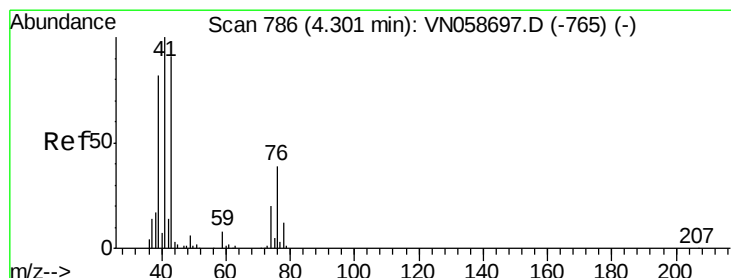
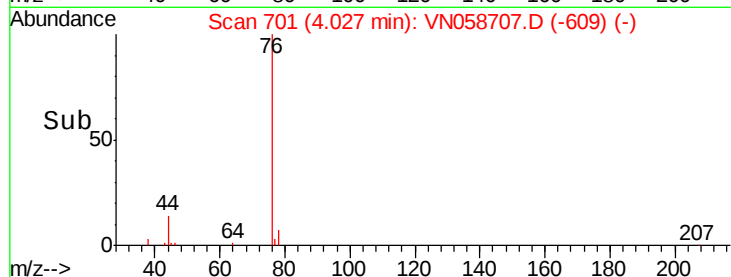
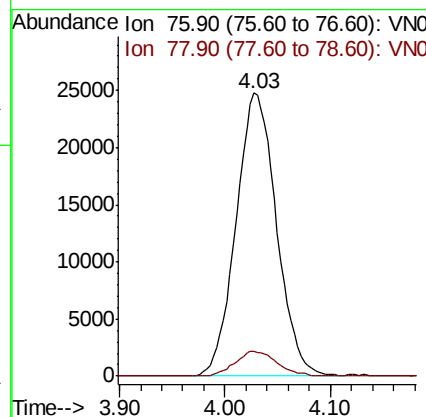
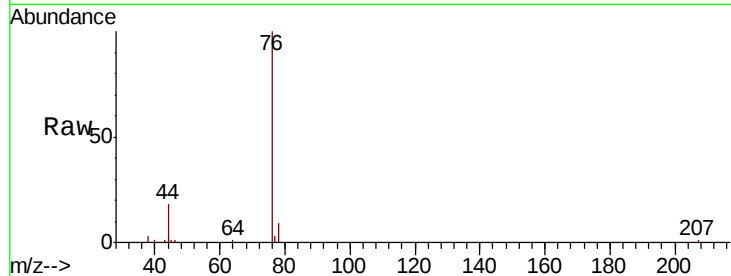




#17
Carbon Disulfide
Concen: 5.077 ug/l
RT: 4.03 min Scan# 701
Delta R.T. -0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

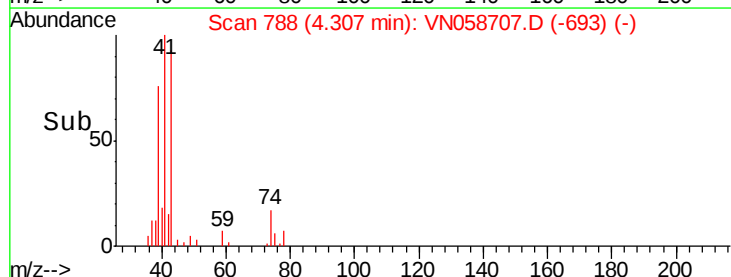
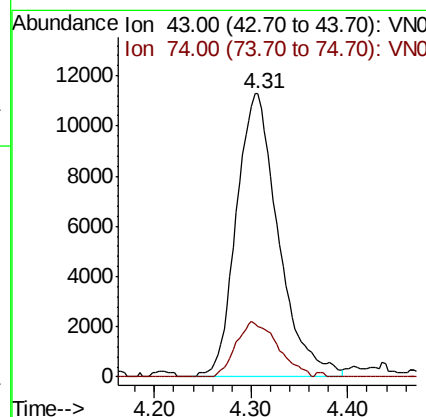
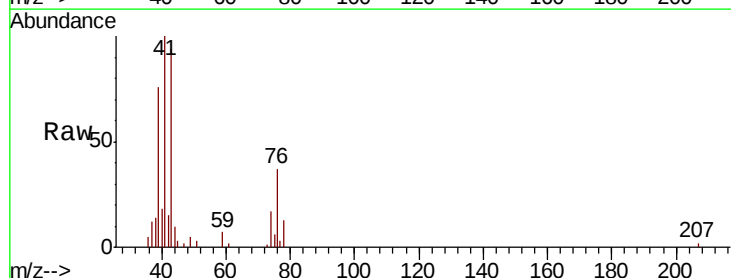
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

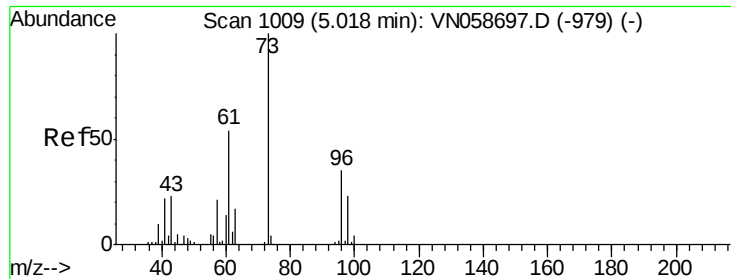
Tot Ion: 76 Resp: 65977
Ion Ratio Lower Upper
76 100
78 8.7 7.1 10.7



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

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

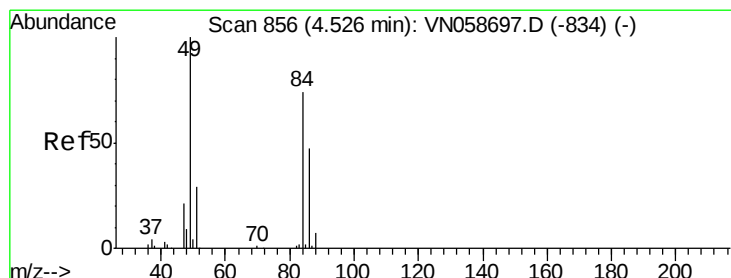
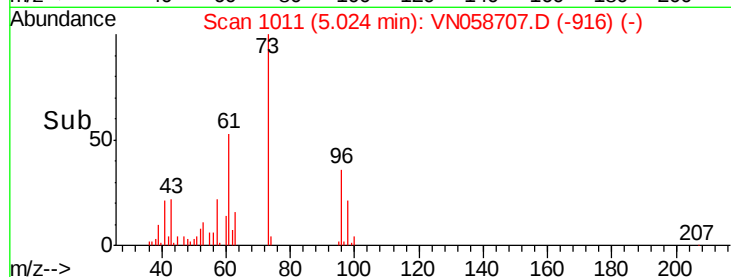
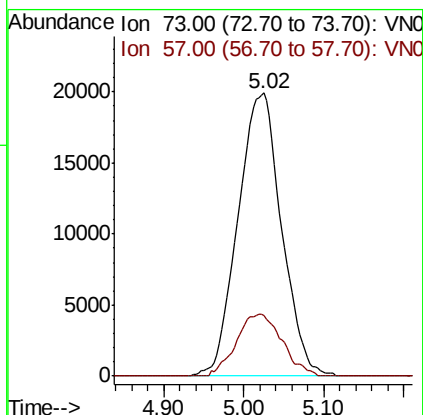
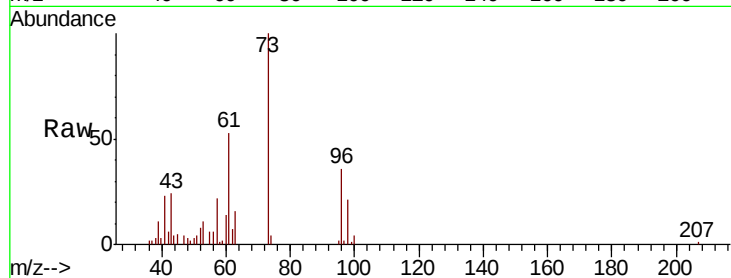




#19
Methvl tert-butvl Ether
Concen: 5.090 ug/l
RT: 5.02 min Scan# 1011
Delta R.T. 0.01 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

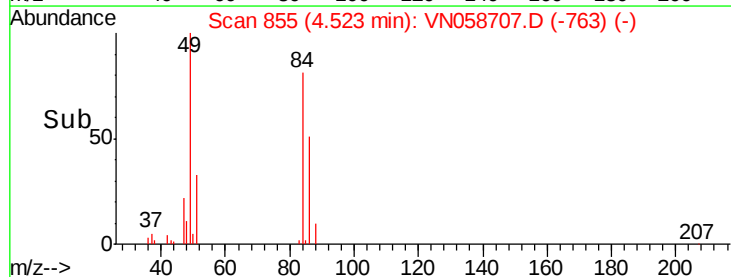
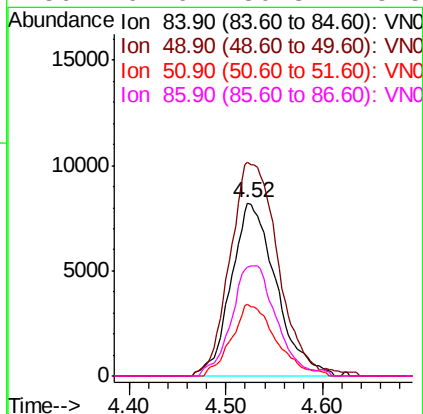
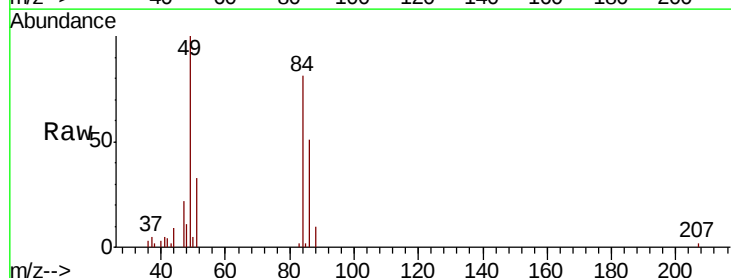
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

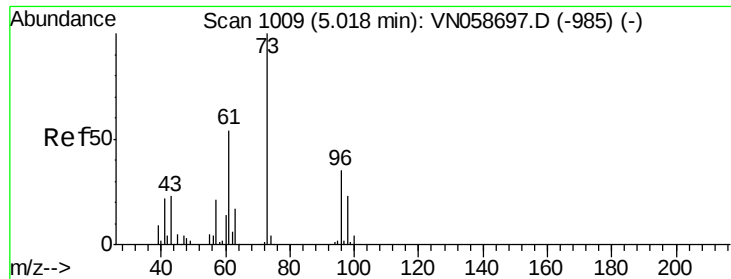
Tot Ion: 73 Resp: 73884
Ion Ratio Lower Upper
73 100
57 21.5 17.0 25.6



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

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

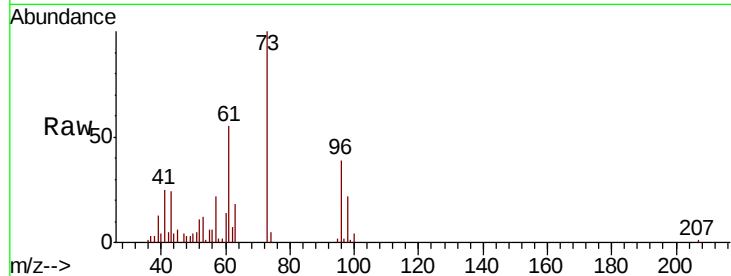




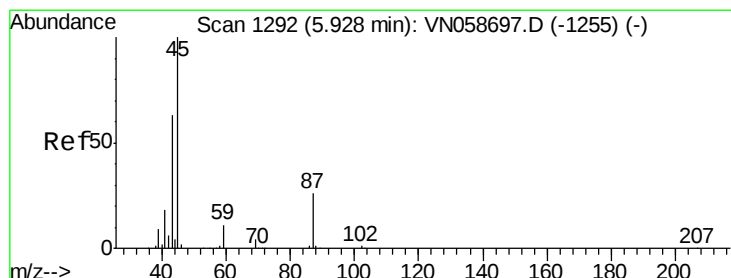
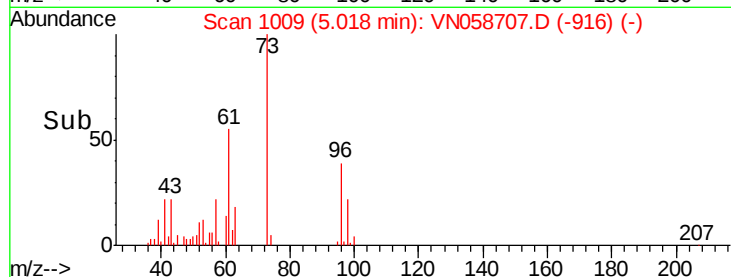
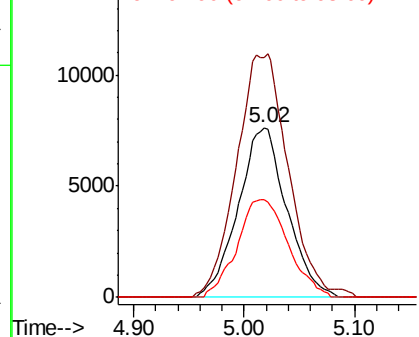
#21
trans-1,2-Dichloroethene
Concen: 5.123 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

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

Tot Ion: 96 Resp: 23297
Ion Ratio Lower Upper
96 100
61 141.1 123.6 185.4
98 57.4 52.1 78.1

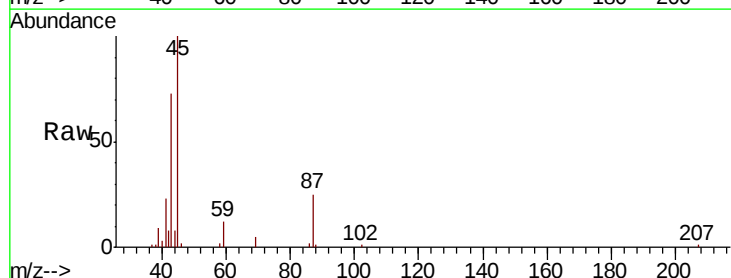


Abundance Ion 95.90 (95.60 to 96.60): VNC
Ion 60.90 (60.60 to 61.60): VNC
Ion 97.90 (97.60 to 98.60): VNC

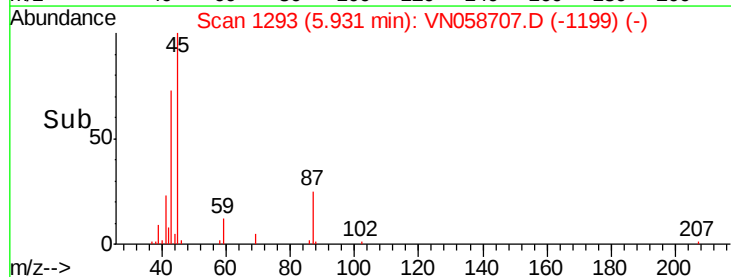
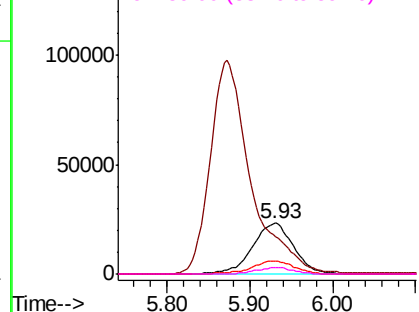


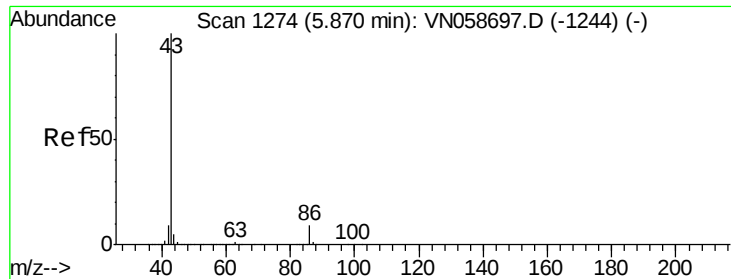
#22
Diisopropyl ether
Concen: 5.012 ug/l
RT: 5.93 min Scan# 1293
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Tgt Ion: 45 Resp: 79952
Ion Ratio Lower Upper
45 100
43 69.7 50.6 75.8
87 25.2 21.1 31.7
59 12.4 9.0 13.4



Abundance Ion 45.00 (44.70 to 45.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 87.00 (86.70 to 87.70): VNC
Ion 59.00 (58.70 to 59.70): VNC





#23

Vinyl Acetate

Concen: 25.850 ug/l

RT: 5.87 min Scan# 1275

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

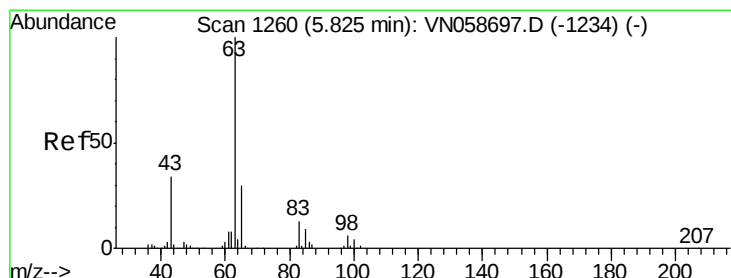
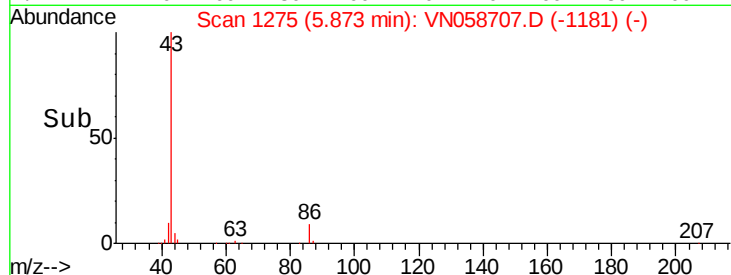
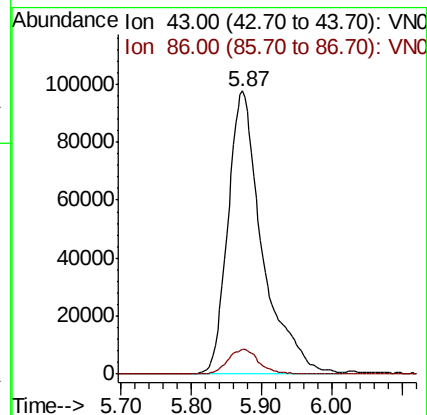
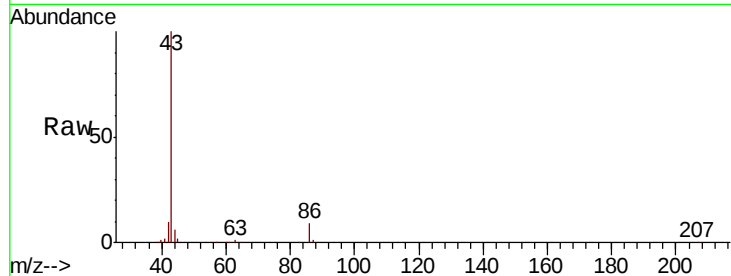
MDL-MDL-WATER-03-QT4-2019

Tot Ion: 43 Resp: 332707

Ion Ratio Lower Upper

43 100

86 8.8 7.4 11.0



#24

1,1-Dichloroethane

Concen: 5.099 ug/l

RT: 5.82 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

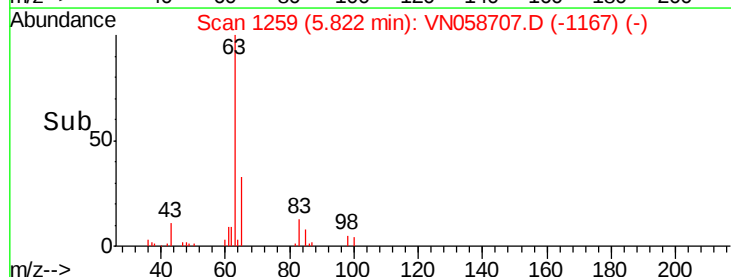
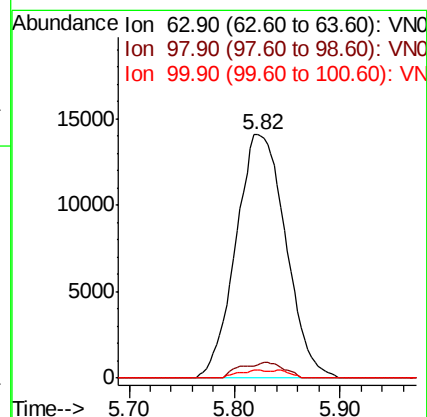
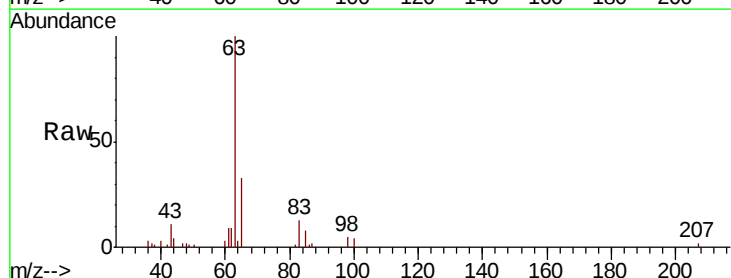
Tgt Ion: 63 Resp: 46319

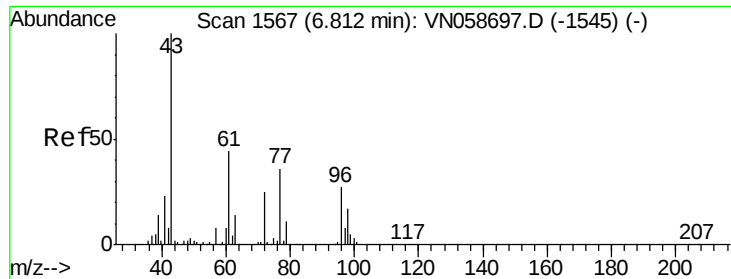
Ion Ratio Lower Upper

63 100

98 5.4 2.9 8.6

100 3.6 1.8 5.5





#25

2-Butanone

Concen: 25.105 ug/l

RT: 6.82 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

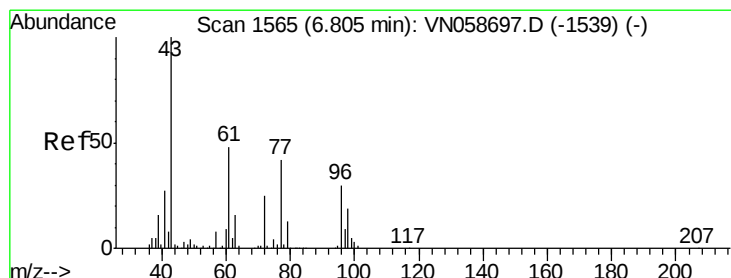
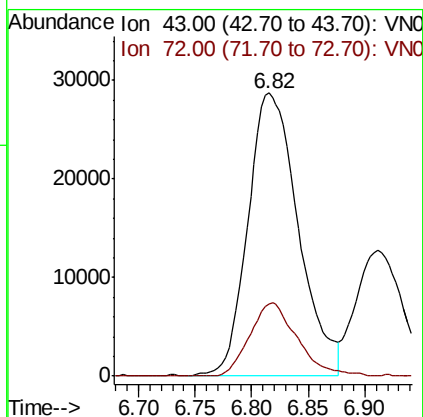
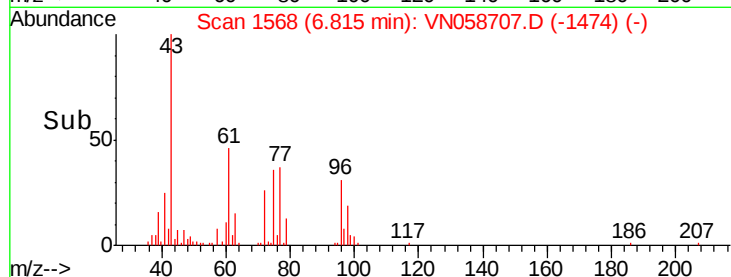
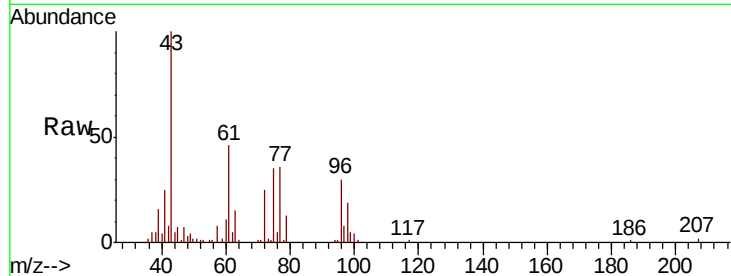
MDL-MDL-WATER-03-QT4-2019

Tot Ion: 43 Resp: 89022

Ion Ratio Lower Upper

43 100

72 25.3 20.2 30.2



#26

2,2-Dichloropropane

Concen: 4.687 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VN058707.D

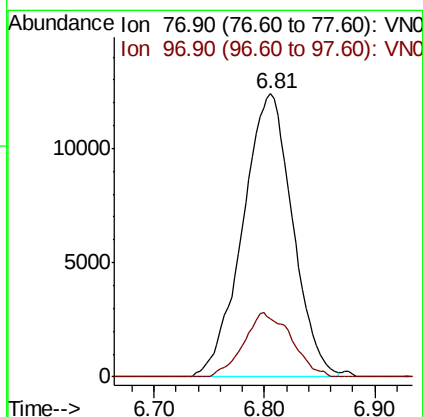
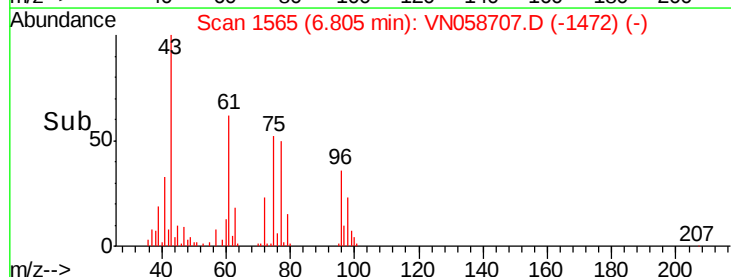
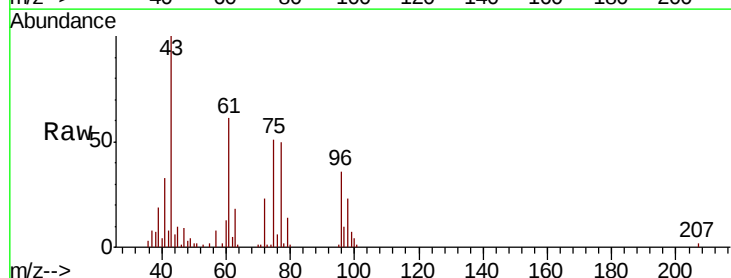
Acq: 11 Oct 2019 16:42

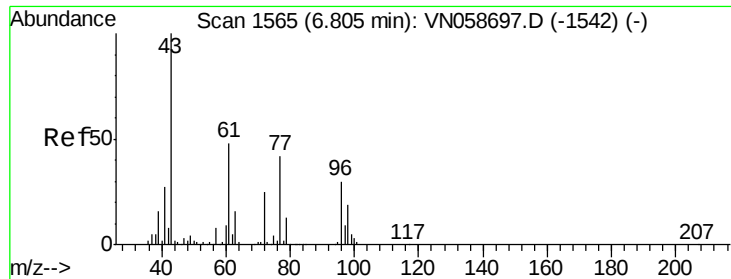
Tgt Ion: 77 Resp: 38866

Ion Ratio Lower Upper

77 100

97 21.6 10.7 31.9





#27

cis-1,2-Dichloroethene

Concen: 5.046 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

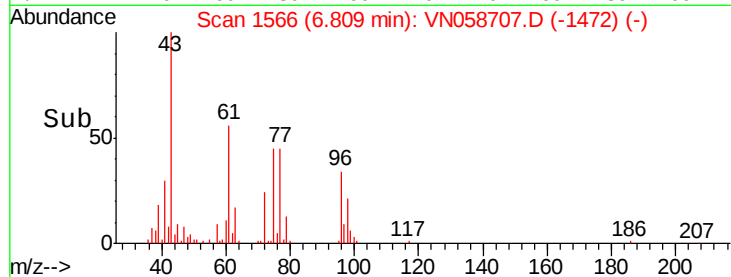
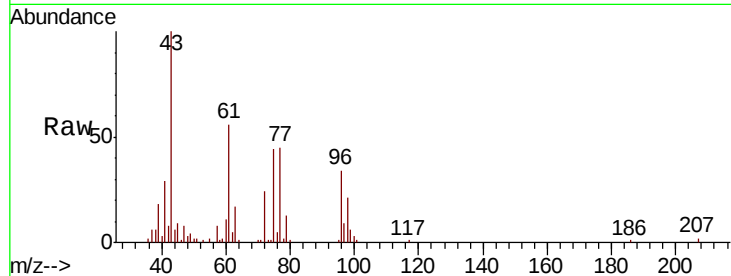
Tot Ion: 96 Resp: 26757

Ion Ratio Lower Upper

96 100

61 164.2 0.0 324.8

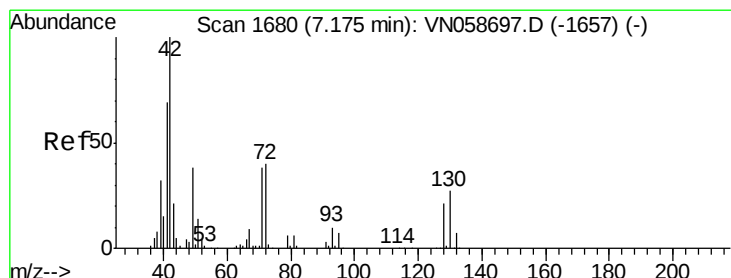
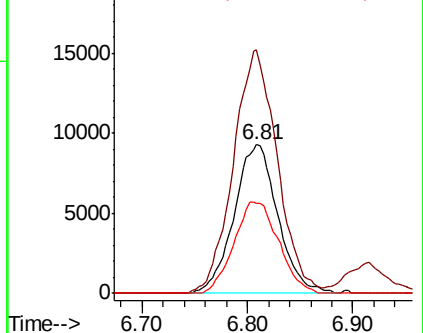
98 62.7 0.0 129.2



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#28

Bromochloromethane

Concen: 5.161 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

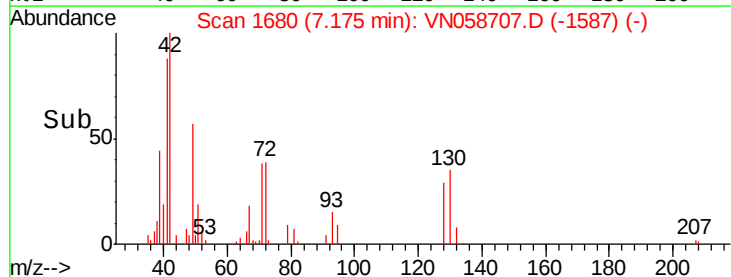
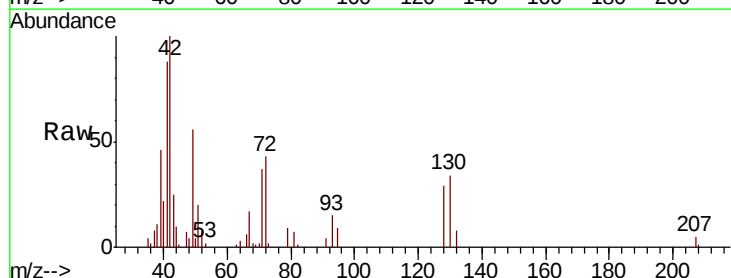
Tgt Ion: 49 Resp: 16311

Ion Ratio Lower Upper

49 100

129 0.2 0.0 3.6

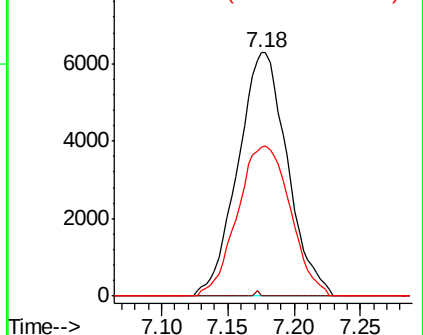
130 65.8 55.0 82.4

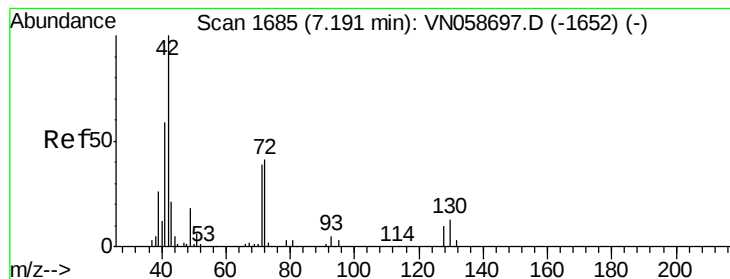


Abundance Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 25.316 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

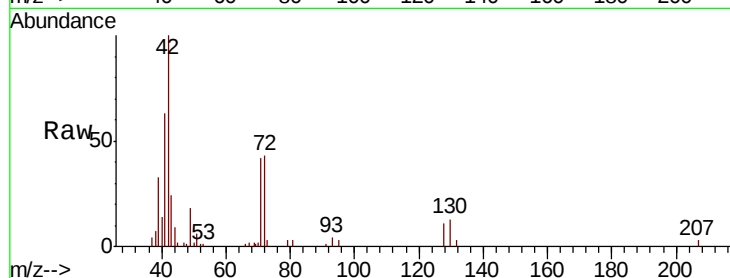
Tot Ion: 42 Resp: 58012

Ion Ratio Lower Upper

42 100

72 40.9 32.8 49.2

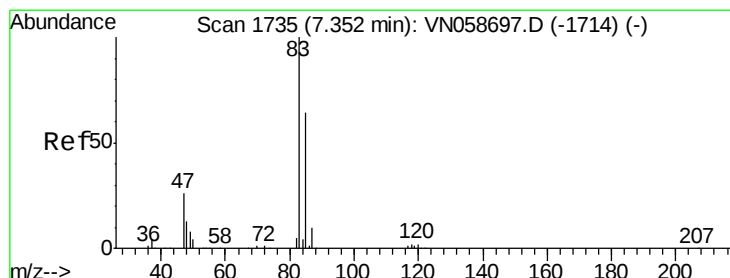
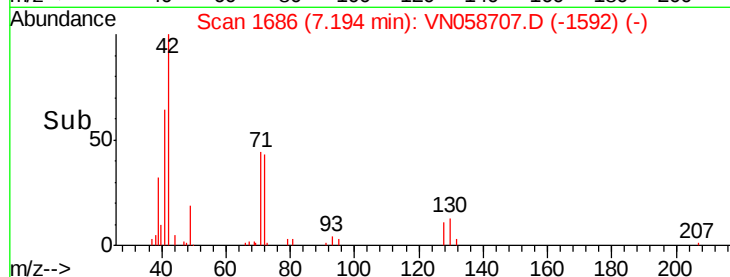
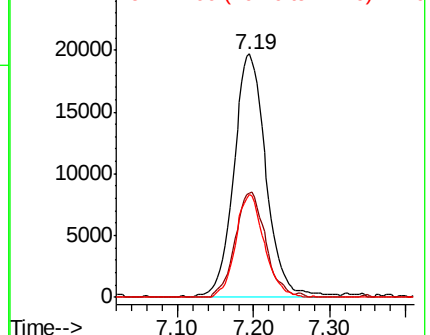
71 37.7 31.1 46.7



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: 4.994 ug/l

RT: 7.36 min Scan# 1736

Delta R.T. 0.00 min

Lab File: VN058707.D

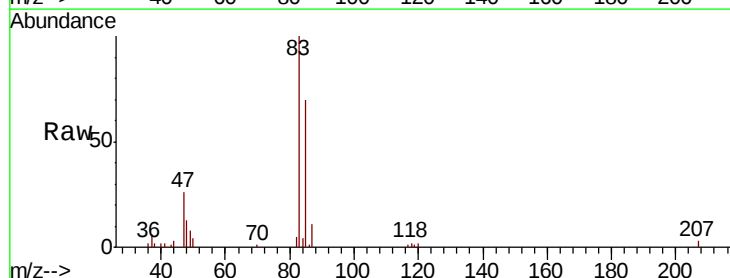
Acq: 11 Oct 2019 16:42

Tgt Ion: 83 Resp: 45577

Ion Ratio Lower Upper

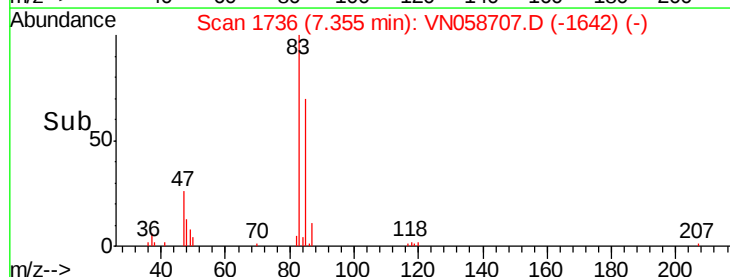
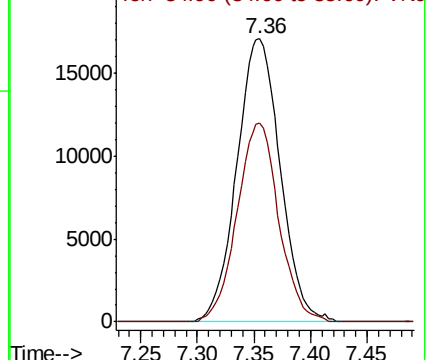
83 100

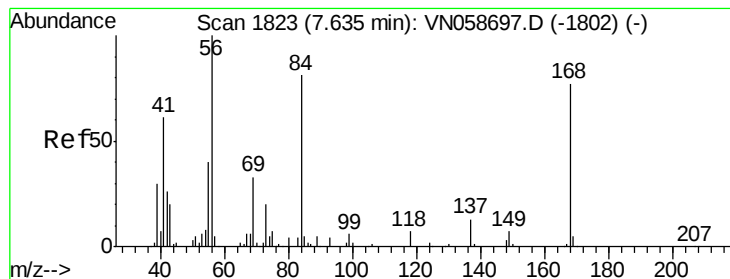
85 70.4 51.0 76.6



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0





#31

Cyclohexane

Concen: 5.693 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

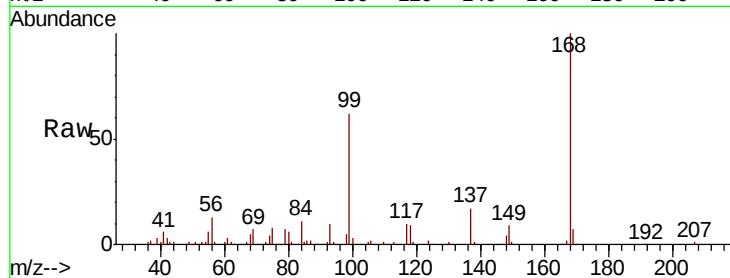
Tot Ion: 56 Resp: 49488

Ion Ratio Lower Upper

56 100

69 57.3 26.2 39.4#

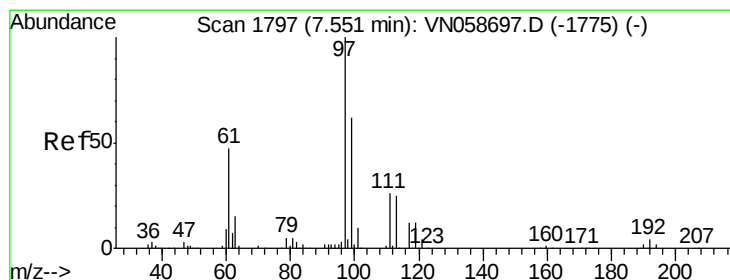
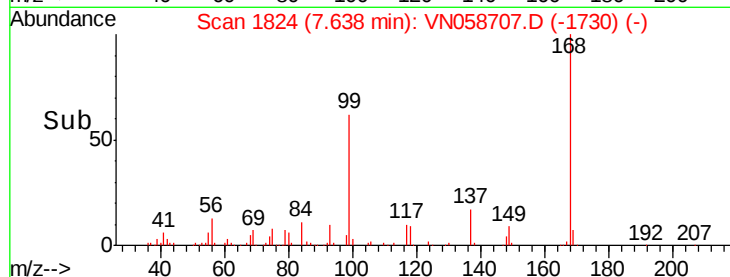
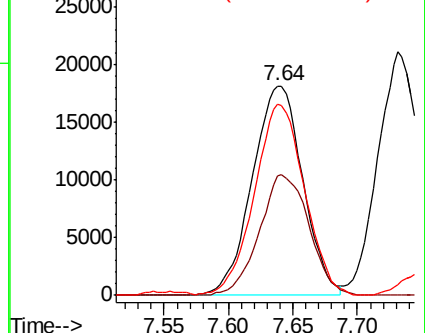
84 90.3 64.9 97.3



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

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

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



#32

1,1,1-Trichloroethane

Concen: 5.190 ug/l

RT: 7.55 min Scan# 1798

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

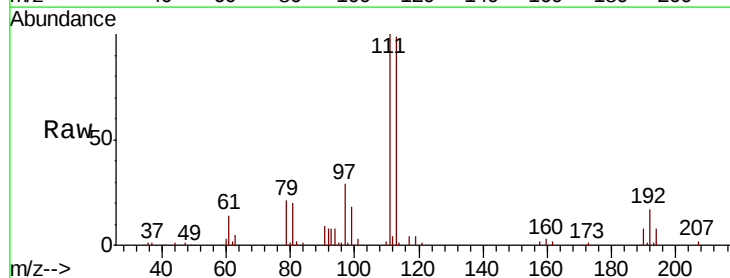
Tgt Ion: 97 Resp: 40399

Ion Ratio Lower Upper

97 100

99 63.5 50.8 76.2

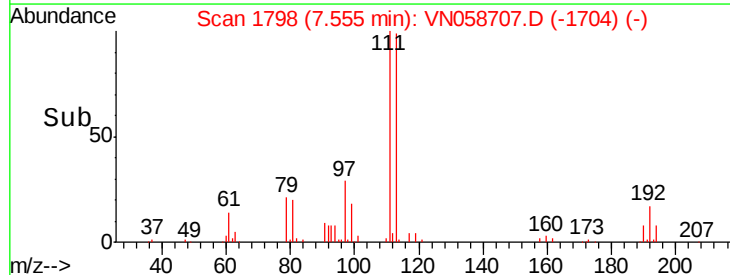
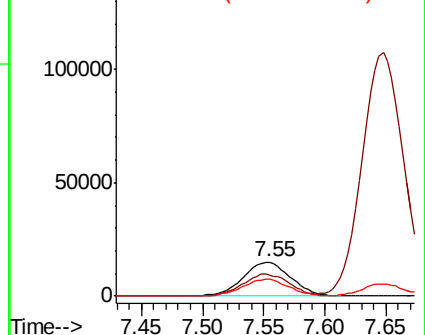
61 47.7 38.1 57.1

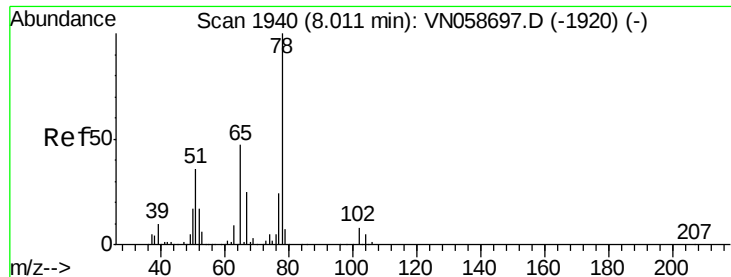


Abundance Ion 96.90 (96.60 to 97.60): VN058707.D (-1704) (-)

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

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





#33

1,2-Dichloroethane-d4

Concen: 55.016 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

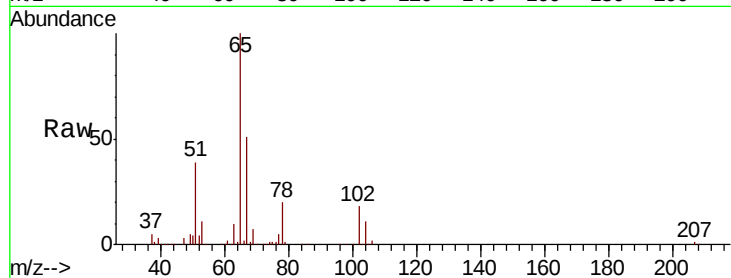
MDL-MDL-WATER-03-QT4-2019

Tot Ion: 65 Resp: 326026

Ion Ratio Lower Upper

65 100

67 52.2 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN058707.D (-1847) (-)

Ion 66.90 (66.60 to 67.60): VN058707.D (-1847) (-)

8.01

150000

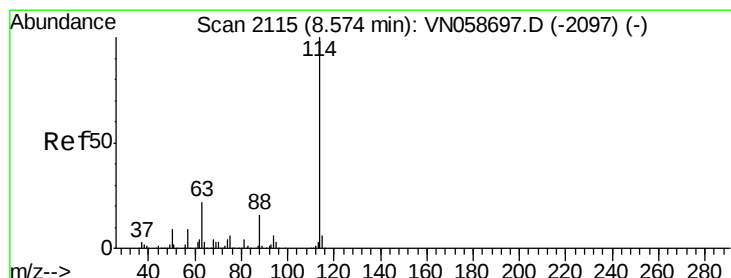
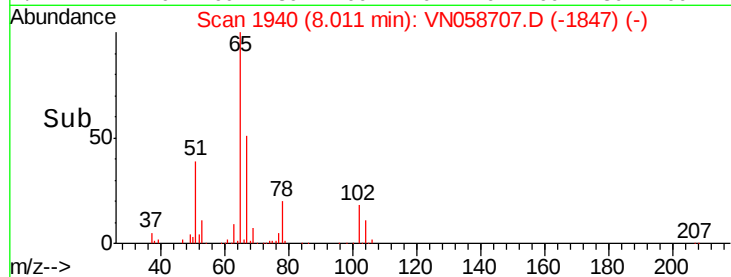
100000

50000

0

7.90 7.95 8.00 8.05 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

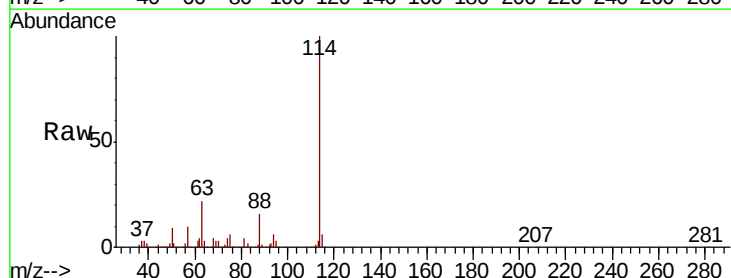
Tgt Ion: 114 Resp: 692877

Ion Ratio Lower Upper

114 100

63 22.4 0.0 43.8

88 15.8 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): VN058707.D (-2022) (-)

Ion 63.00 (62.70 to 63.70): VN058707.D (-2022) (-)

Ion 87.90 (87.60 to 88.60): VN058707.D (-2022) (-)

8.57

400000

300000

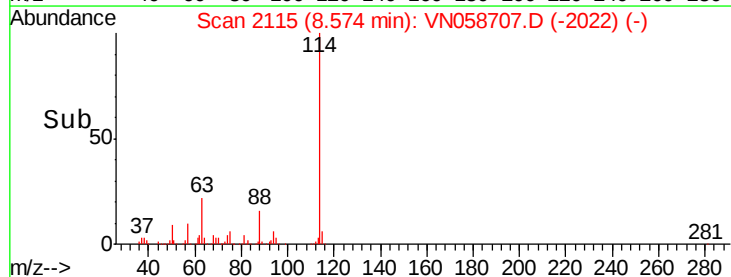
200000

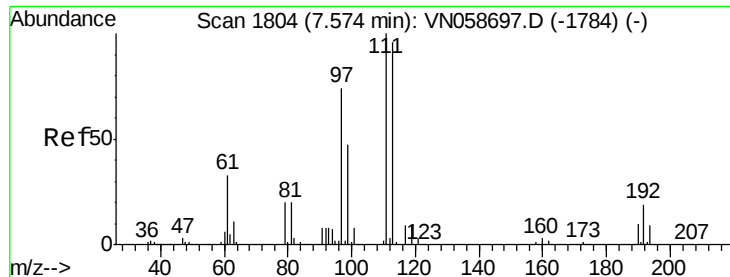
100000

0

8.50 8.55 8.60

Time-->

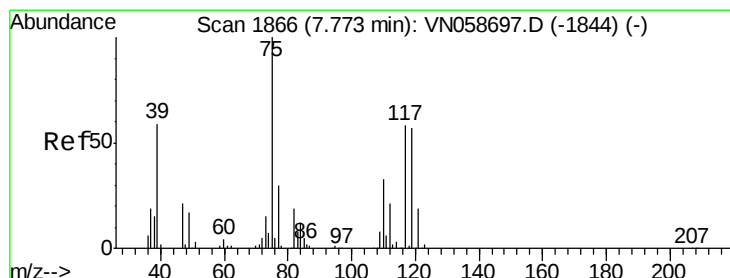
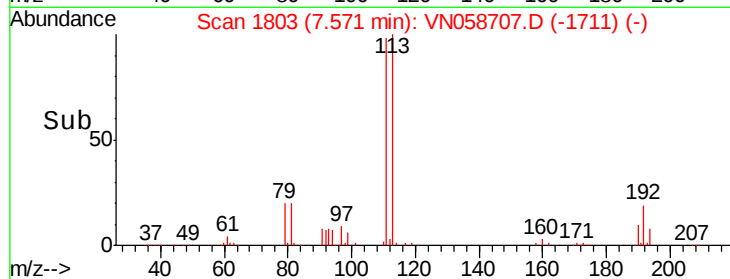
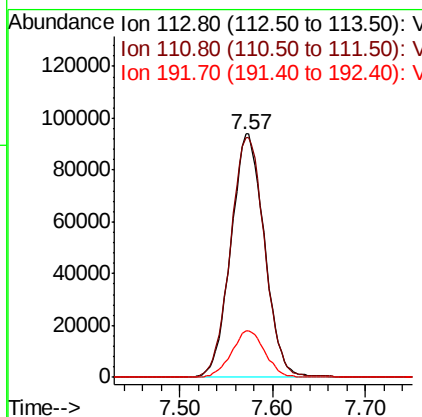
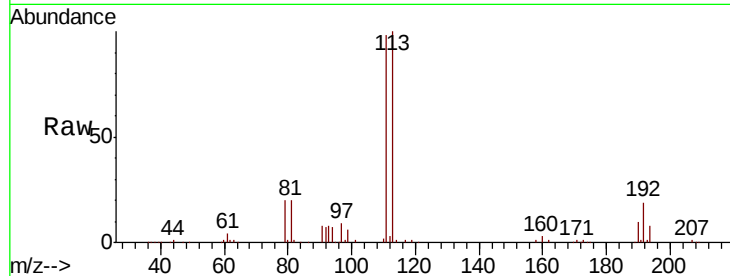




#35
 Dibromofluoromethane
 Concen: 54.930 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VN058707.D
 Acq: 11 Oct 2019 16:42

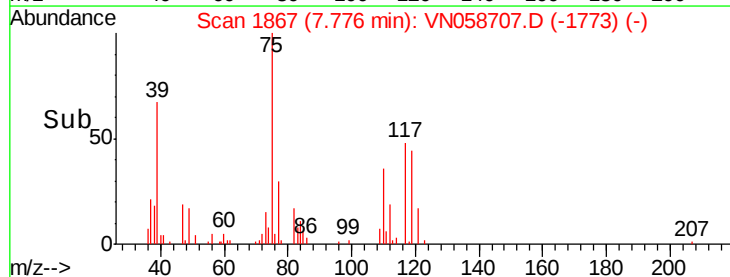
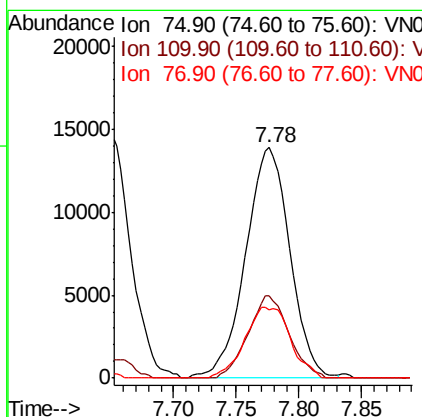
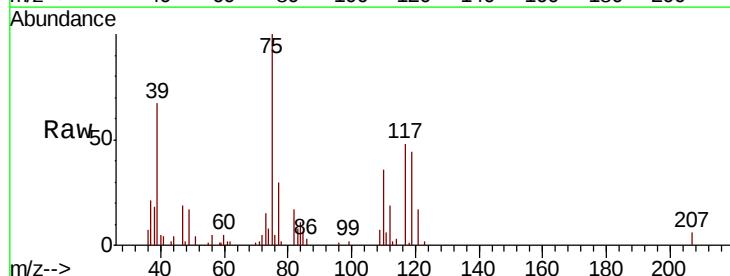
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019

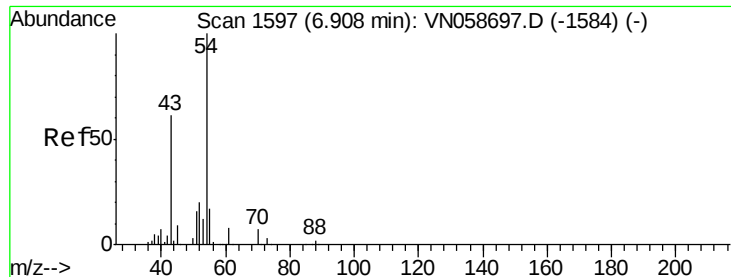
Tot Ion	Ratio	Lower	Upper
113	100		
111	100.3	82.3	123.5
192	19.0	15.0	22.6



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

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

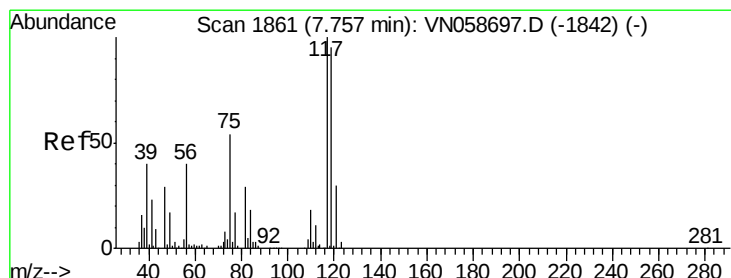
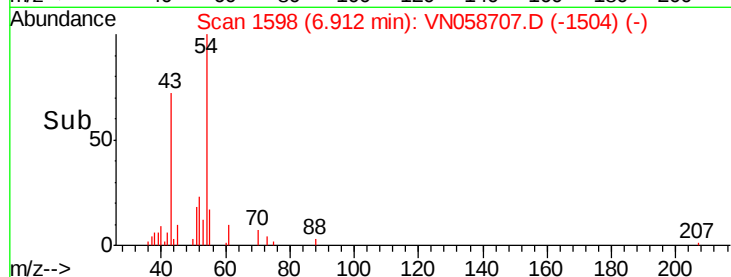
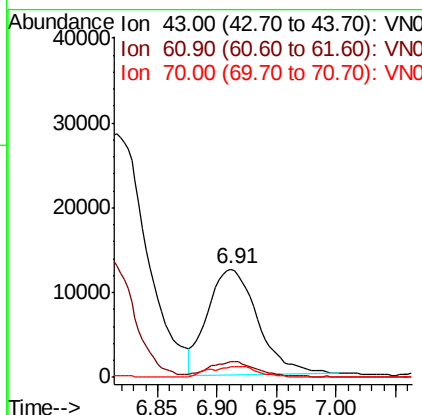
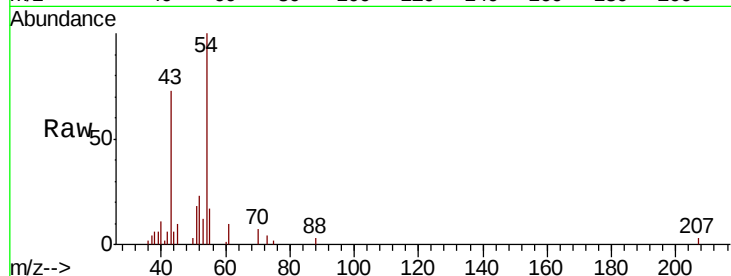




#37
Ethyl Acetate
Concen: 5.179 ug/l
RT: 6.91 min Scan# 1598
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

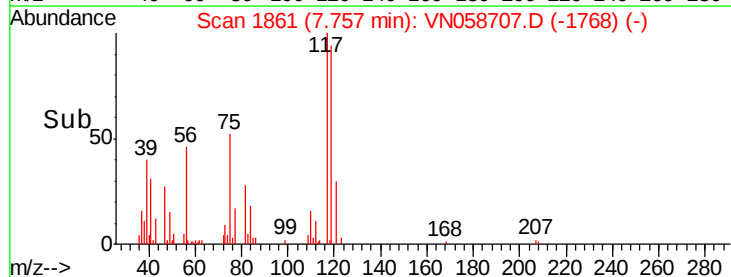
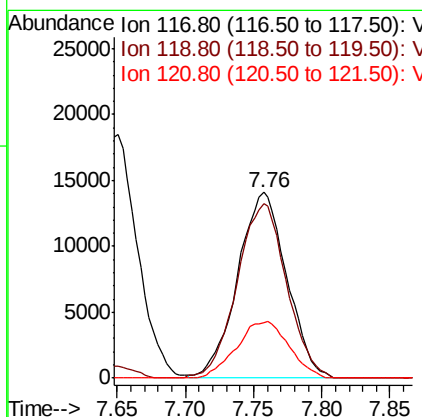
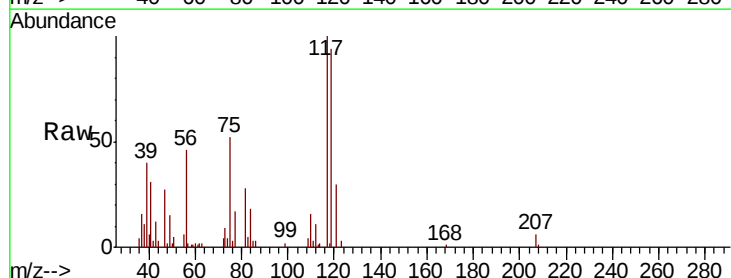
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion: 43 Resp: 36693
Ion Ratio Lower Upper
43 100
61 14.6 11.3 16.9
70 9.9 7.2 10.8



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

Tgt Ion: 117 Resp: 35174
Ion Ratio Lower Upper
117 100
119 94.0 75.7 113.5
121 30.2 23.9 35.9

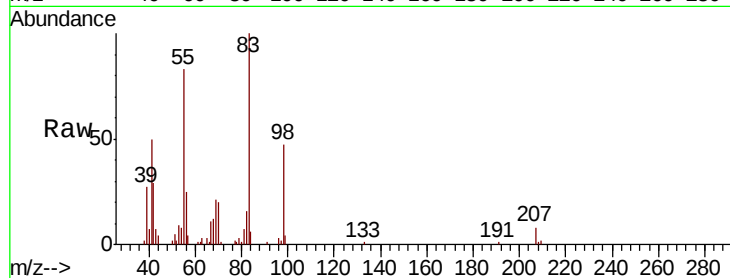




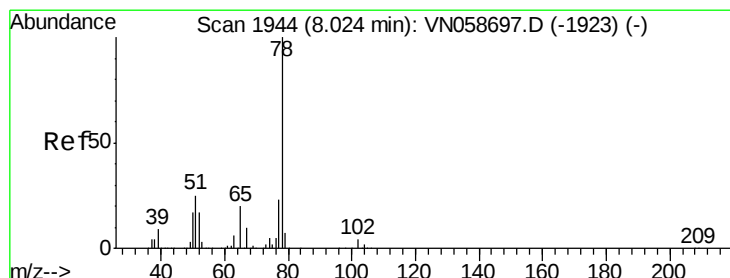
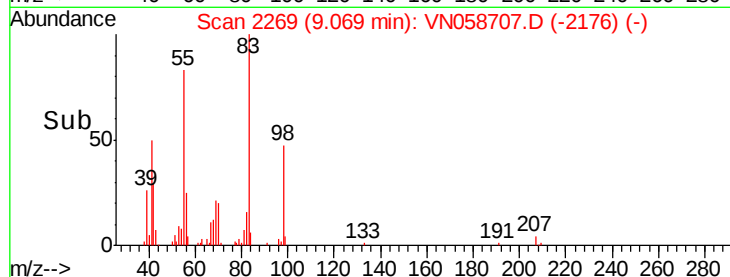
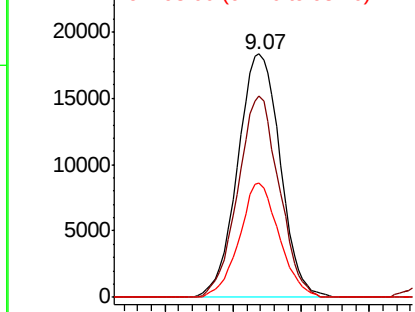
#39
Methvlcvclohexane
Concen: 4.879 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

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

Tot Ion: 83 Resp: 39661
Ion Ratio Lower Upper
83 100
55 82.9 63.4 95.0
98 46.9 35.1 52.7

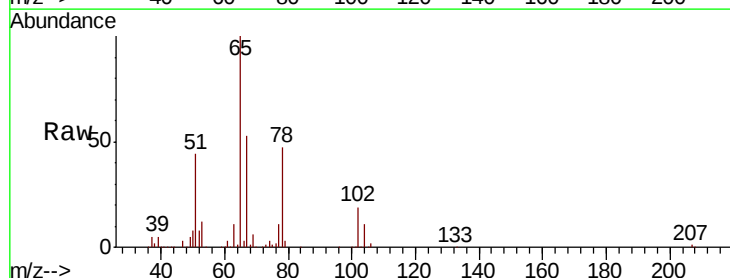


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

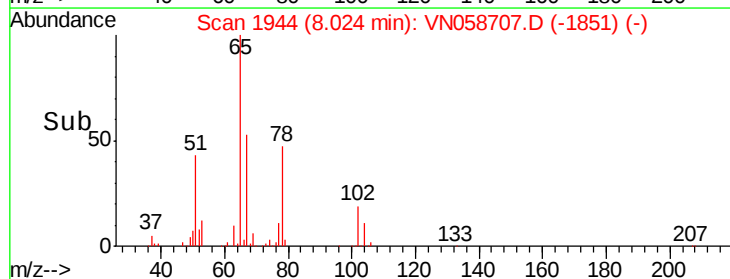
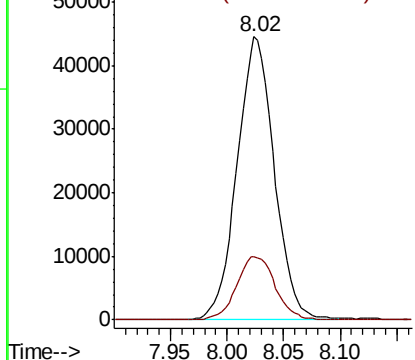


#40
Benzene
Concen: 5.059 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Tgt Ion: 78 Resp: 101787
Ion Ratio Lower Upper
78 100
77 22.5 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): VN0
Ion 77.00 (76.70 to 77.70): VN0

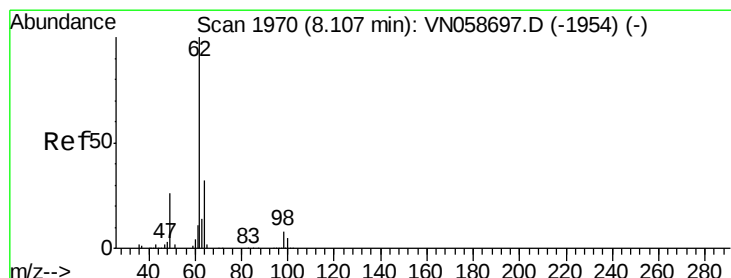
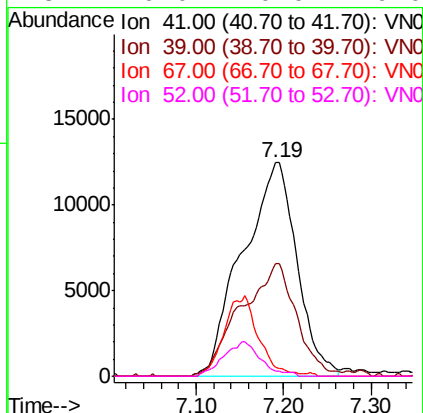
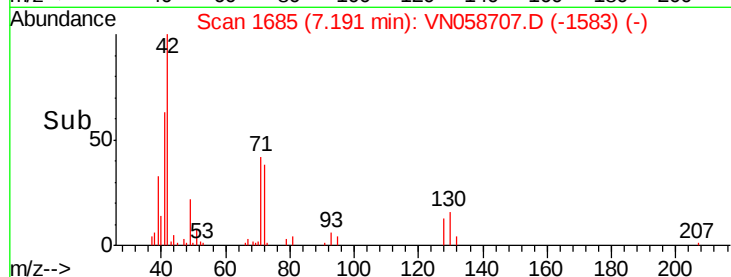
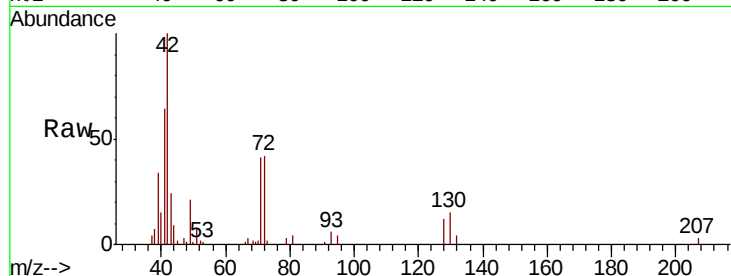




#41
Methacrylonitrile
Concen: 16.157 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.03 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

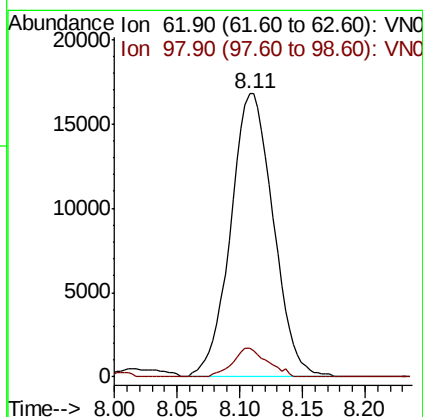
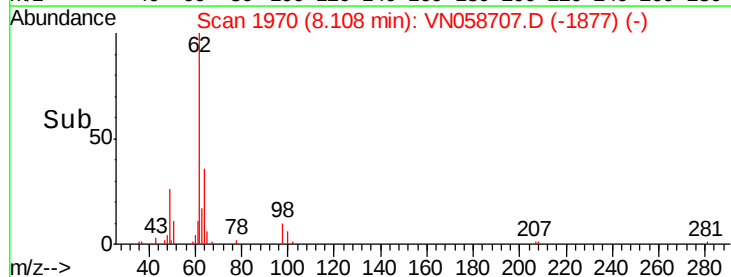
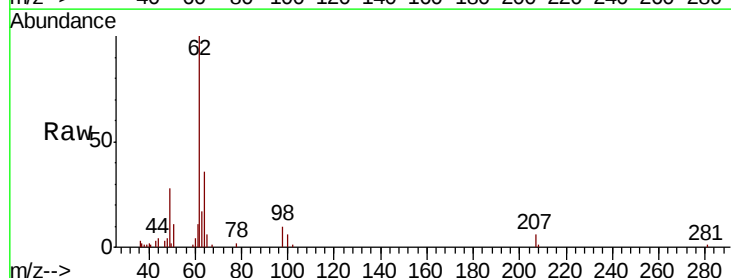
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion: 41 Resp: 53584
Ion Ratio Lower Upper
41 100
39 53.8 115.4 173.2#
67 0.0 0.0 0.0
52 0.0 0.0 0.0



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

Tgt Ion: 62 Resp: 39684
Ion Ratio Lower Upper
62 100
98 8.2 0.0 15.8





#43

Isopropyl Acetate

Concen: 4.948 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

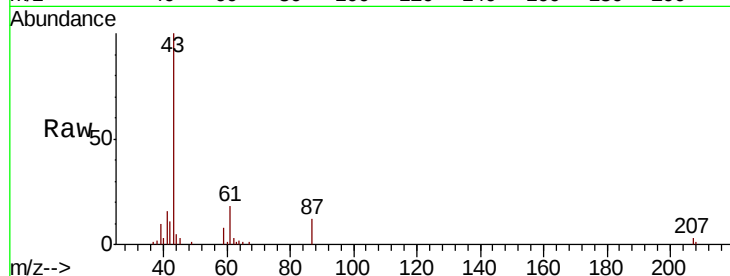
Tot Ion: 43 Resp: 59716

Ion Ratio Lower Upper

43 100

61 25.4 20.3 30.5

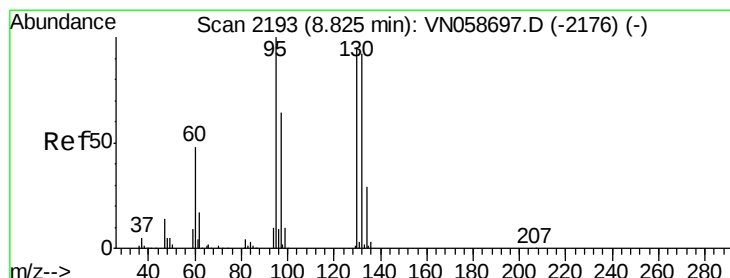
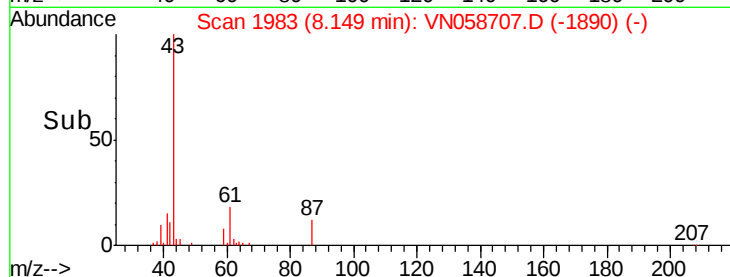
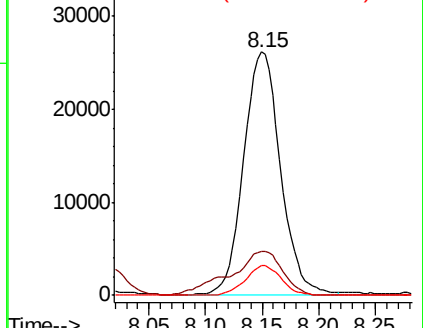
87 11.8 9.8 14.6



Abundance Ion 43.00 (42.70 to 43.70): VN058707.D (-2100) (-)

Ion 61.00 (60.70 to 61.70): VN058707.D (-2100) (-)

Ion 87.00 (86.70 to 87.70): VN058707.D (-2100) (-)



#44

Trichloroethene

Concen: 4.876 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VN058707.D

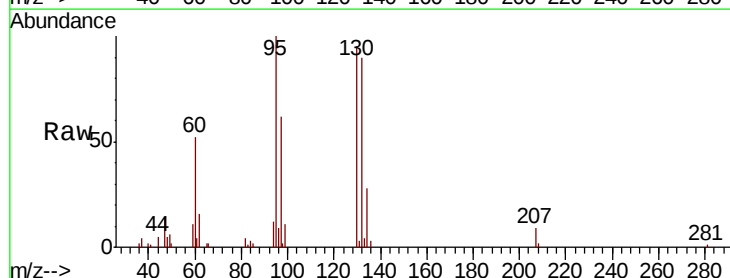
Acq: 11 Oct 2019 16:42

Tgt Ion: 130 Resp: 24361

Ion Ratio Lower Upper

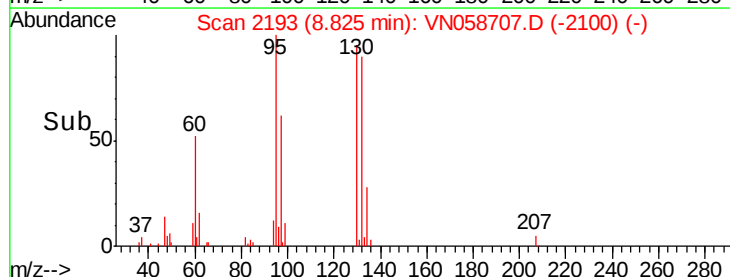
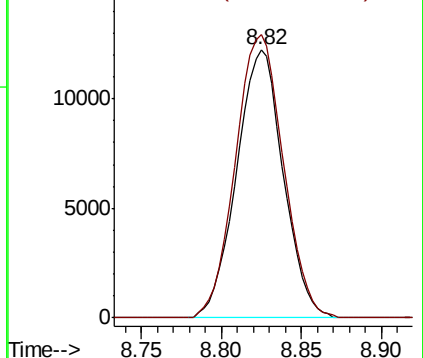
130 100

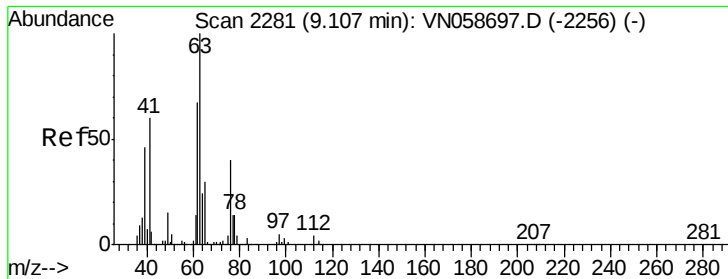
95 105.4 0.0 211.2



Abundance Ion 129.80 (129.50 to 130.50): VN058707.D (-2100) (-)

Ion 94.90 (94.60 to 95.60): VN058707.D (-2100) (-)





#45

1,2-Dichloropropane

Concen: 5.110 ug/l

RT: 9.11 min Scan# 2281

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

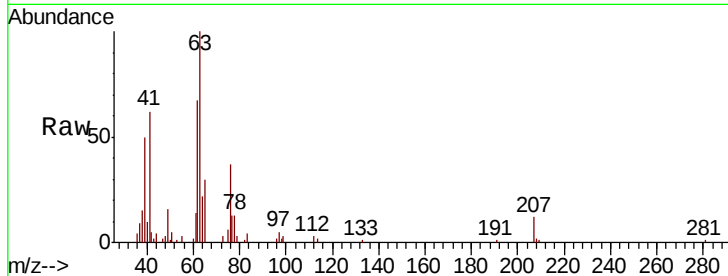
MDL-MDL-WATER-03-QT4-2019

Tot Ion: 63 Resp: 27522

Ion Ratio Lower Upper

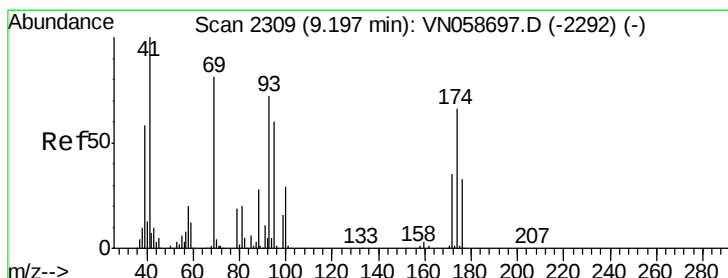
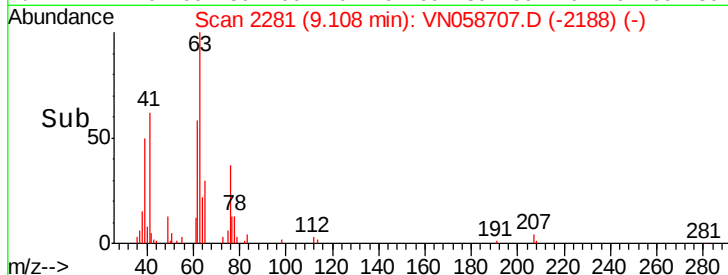
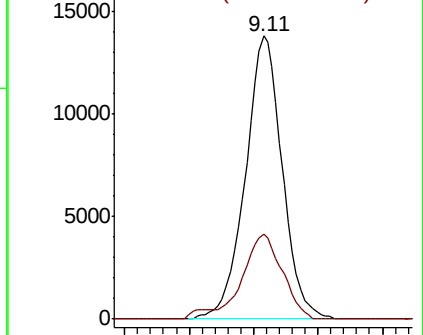
63 100

65 30.1 24.1 36.1



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 5.272 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

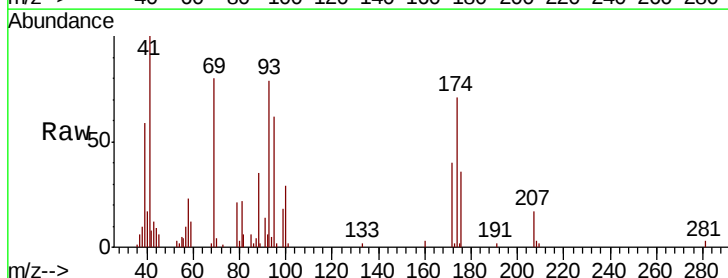
Tgt Ion: 93 Resp: 18004

Ion Ratio Lower Upper

93 100

95 79.0 66.6 100.0

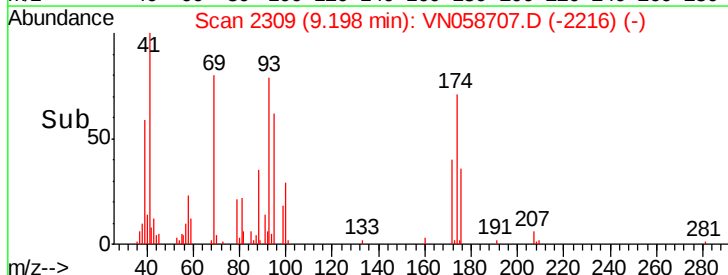
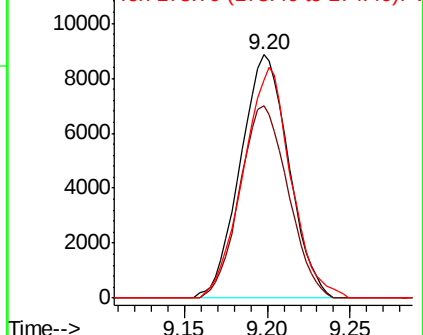
174 93.4 75.2 112.8

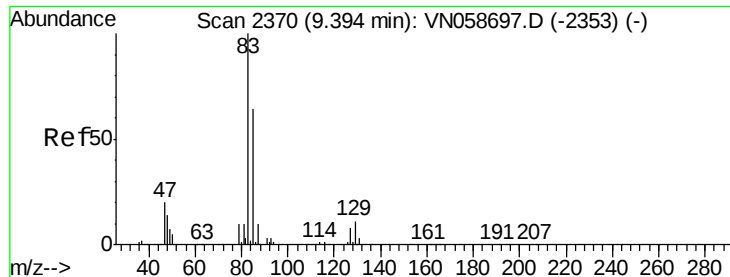


Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 5.182 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

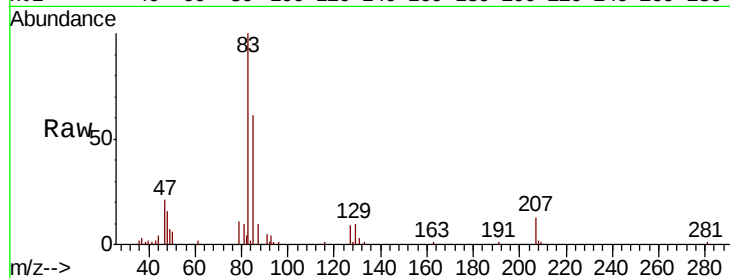
Tot Ion: 83 Resp: 36035

Ion Ratio Lower Upper

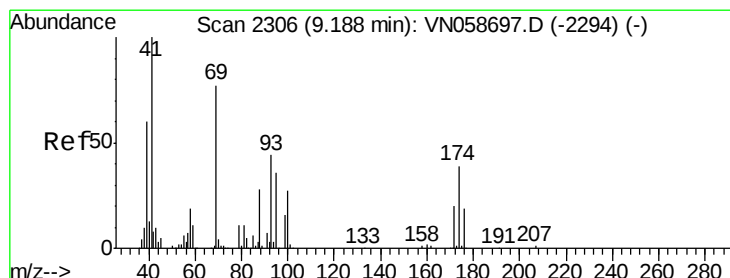
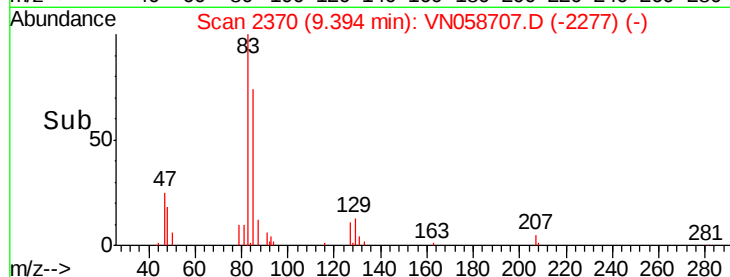
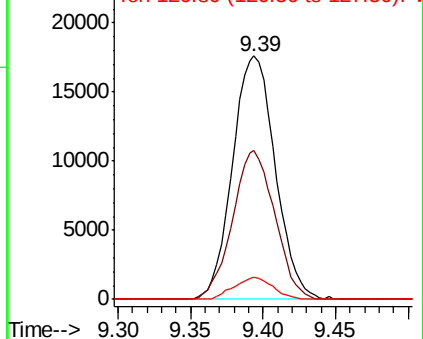
83 100

85 61.0 50.9 76.3

127 9.1 6.3 9.5



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



#48

Methyl methacrylate

Concen: 4.888 ug/l

RT: 9.19 min Scan# 2307

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

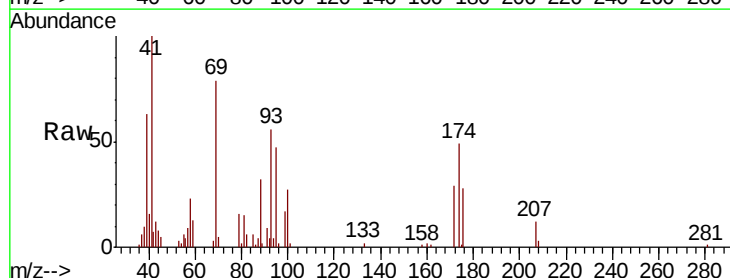
Tgt Ion: 41 Resp: 26740

Ion Ratio Lower Upper

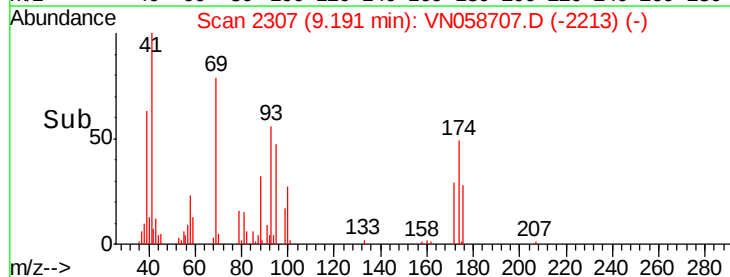
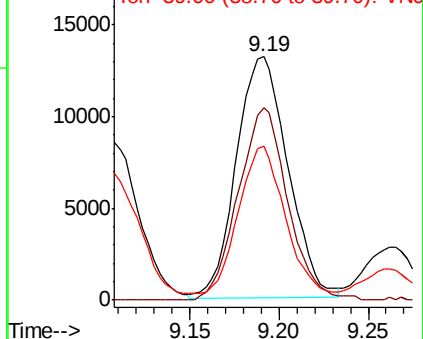
41 100

69 75.8 63.4 95.2

39 60.2 48.9 73.3



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

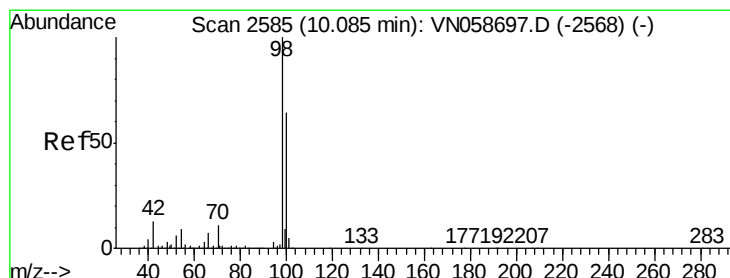
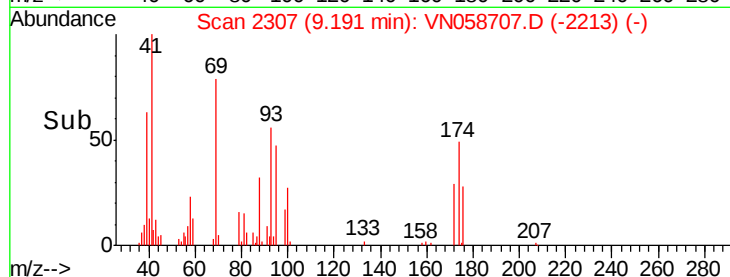
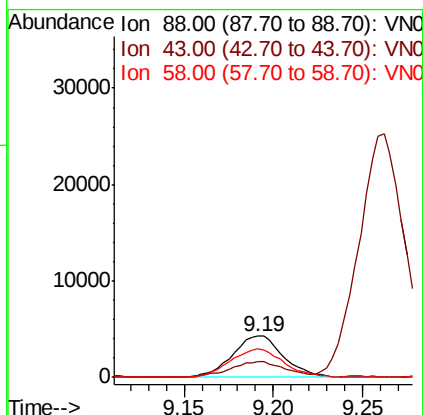
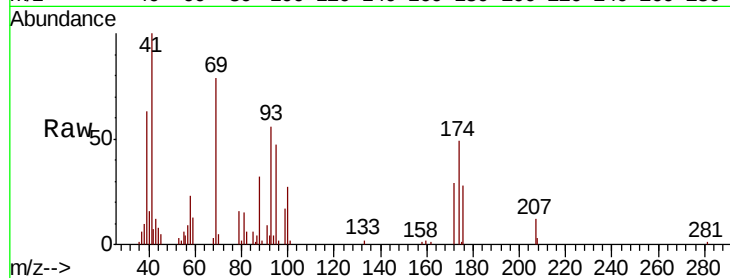




#49
1,4-Dioxane
Concen: 100.687 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

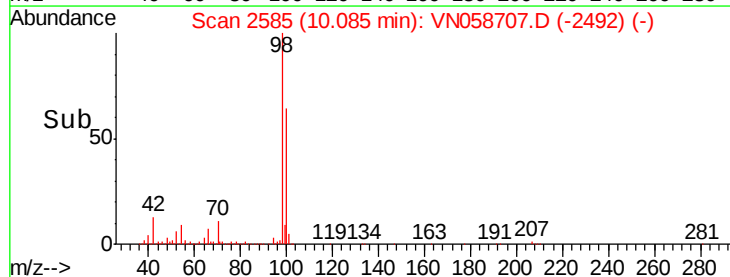
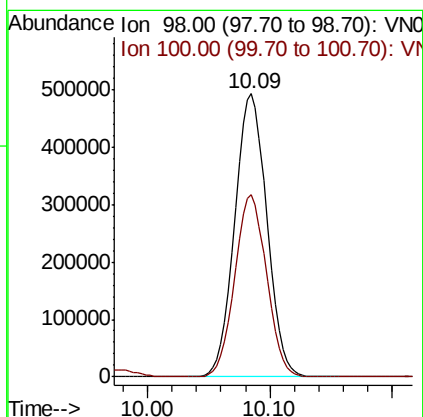
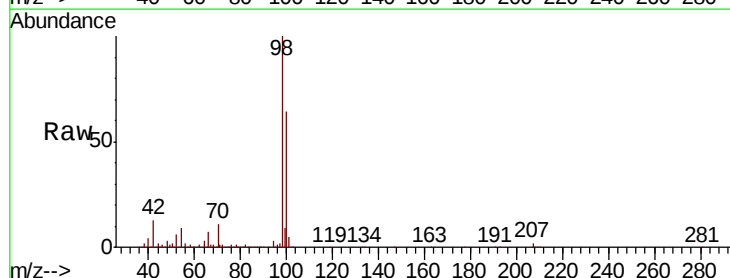
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

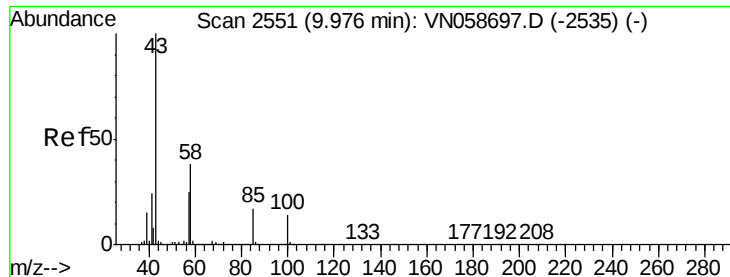
Tot Ion: 88 Resp: 8522
Ion Ratio Lower Upper
88 100
43 41.7 28.6 43.0
58 72.4 57.2 85.8



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

Tgt Ion: 98 Resp: 897992
Ion Ratio Lower Upper
98 100
100 63.7 51.1 76.7





#51

4-Methyl-2-Pentanone

Concen: 25.399 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

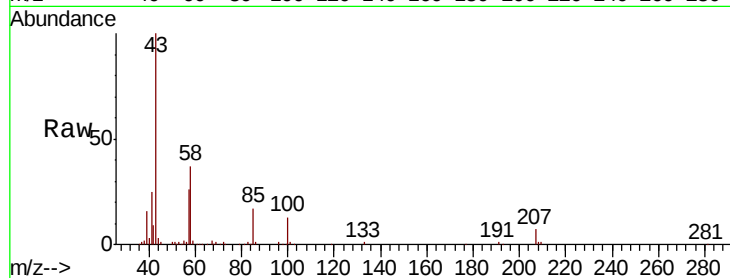
MDL-MDL-WATER-03-QT4-2019

Tot Ion: 43 Resp: 172160

Ion Ratio Lower Upper

43 100

58 37.1 30.3 45.5



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

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

9.98

100000

80000

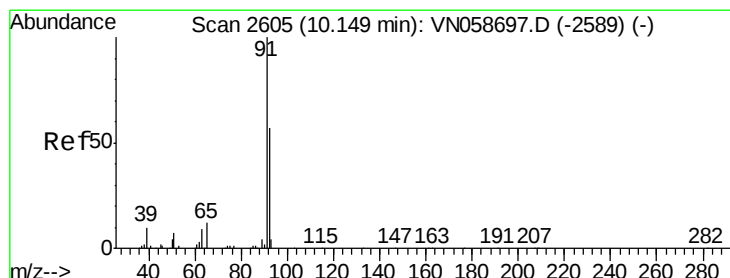
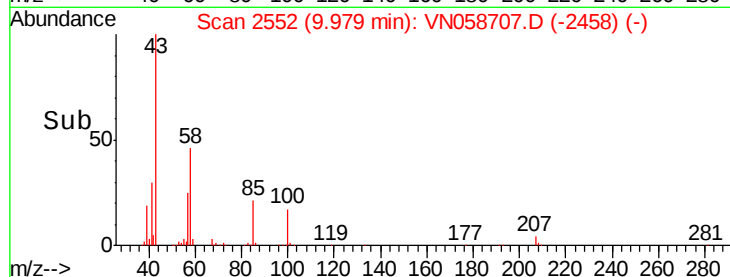
60000

40000

20000

0

Time-->



#52

Toluene

Concen: 4.998 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VN058707.D

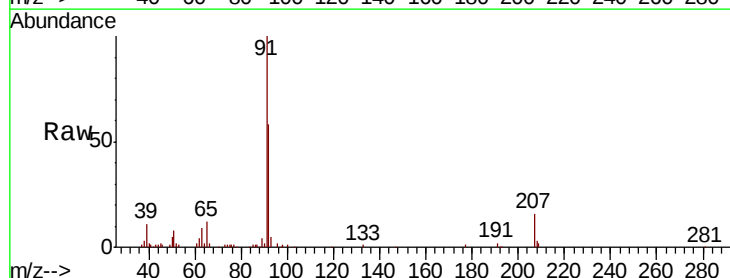
Acq: 11 Oct 2019 16:42

Tgt Ion: 92 Resp: 61503

Ion Ratio Lower Upper

92 100

91 174.6 139.1 208.7



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

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

10.15

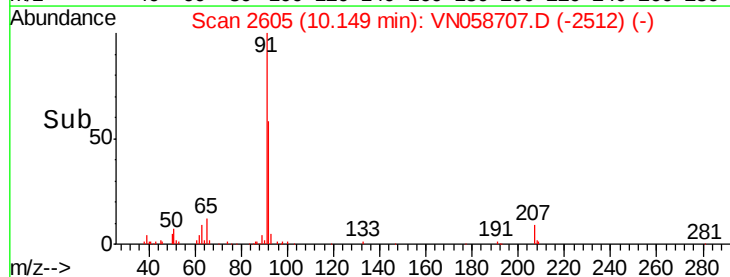
60000

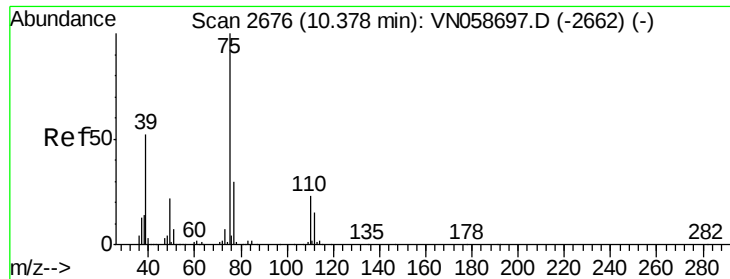
40000

20000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 4.653 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

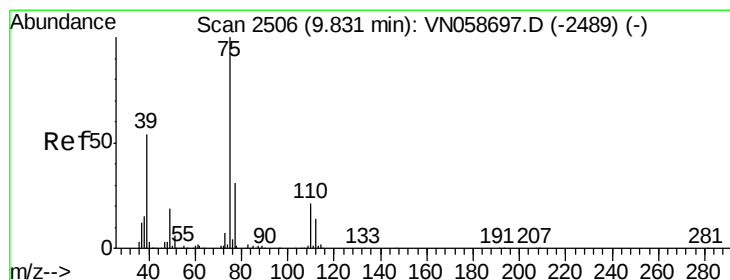
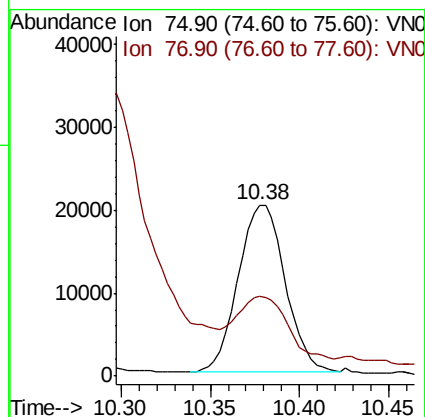
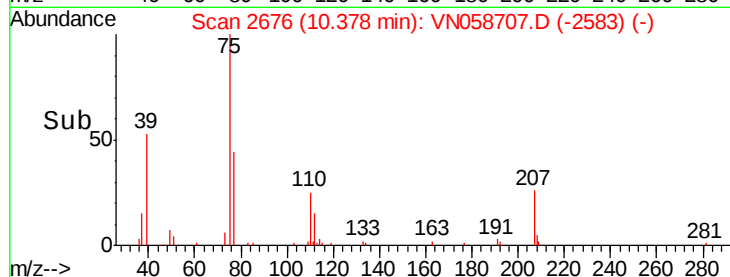
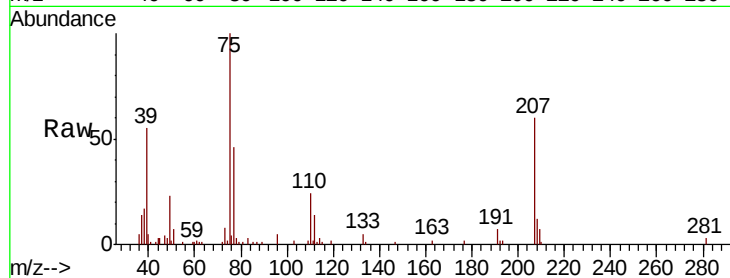
MDL-MDL-WATER-03-QT4-2019

Tot Ion: 75 Resp: 37108

Ion Ratio Lower Upper

75 100

77 36.7 26.2 39.4



#54

cis-1,3-Dichloropropene

Concen: 4.706 ug/l

RT: 9.83 min Scan# 2506

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

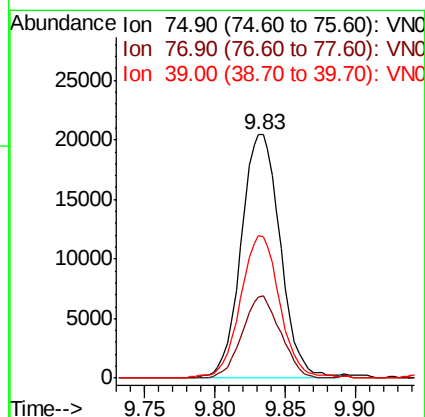
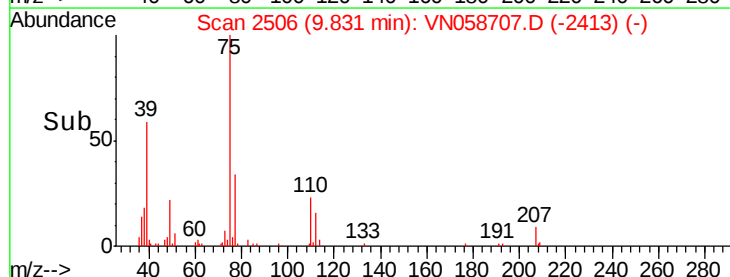
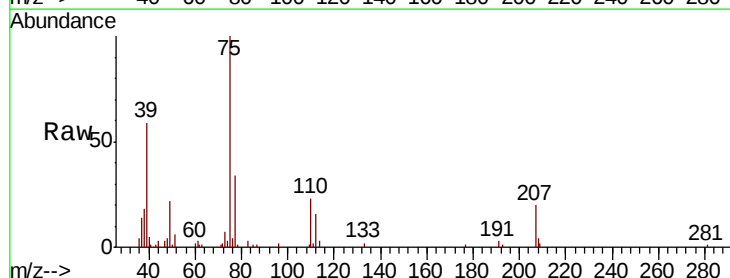
Tgt Ion: 75 Resp: 39846

Ion Ratio Lower Upper

75 100

77 33.6 24.4 36.6

39 57.9 43.1 64.7





#55

1,1,2-Trichloroethane

Concen: 5.146 ug/l

RT: 10.56 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

Tot Ion: 97 Resp: 25920

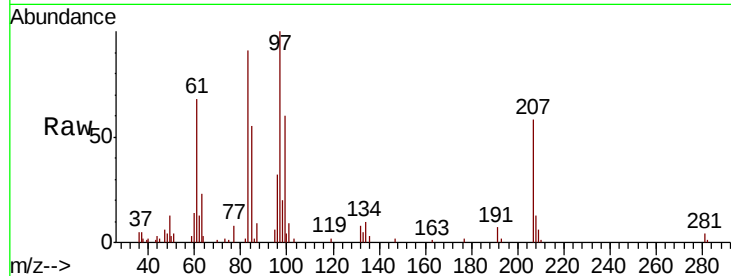
Ion Ratio Lower Upper

97 100

83 91.2 71.2 106.8

85 54.7 46.7 70.1

99 60.4 49.0 73.6

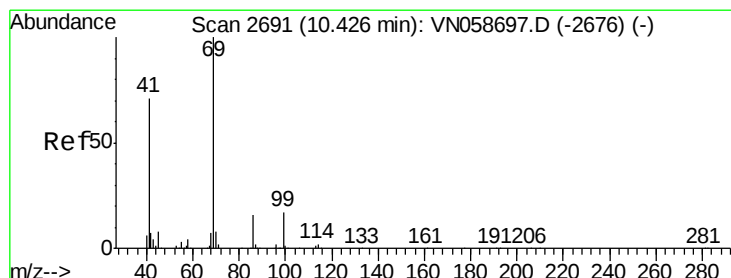
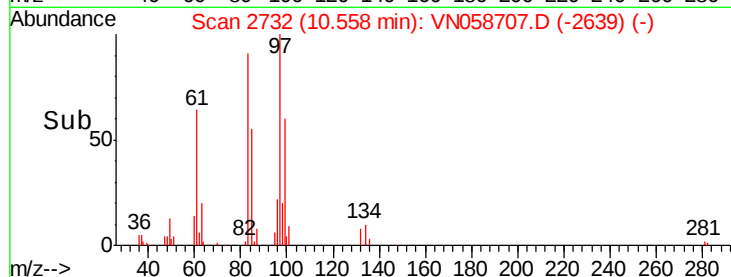
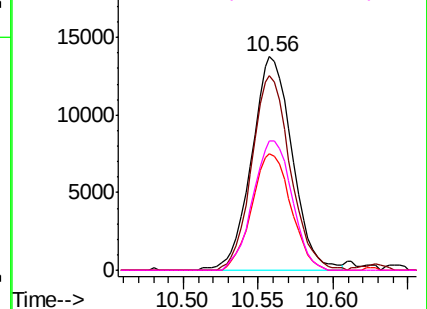


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0



#56

Ethyl methacrylate

Concen: 4.766 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

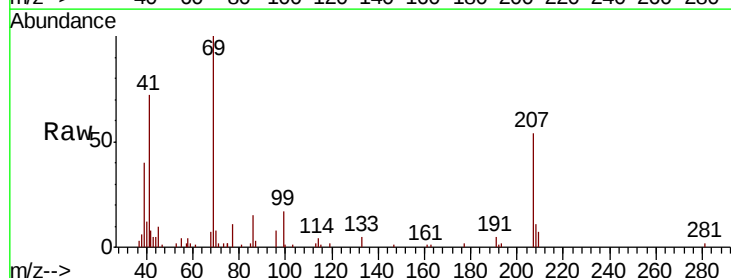
Tgt Ion: 69 Resp: 35069

Ion Ratio Lower Upper

69 100

41 71.5 56.8 85.2

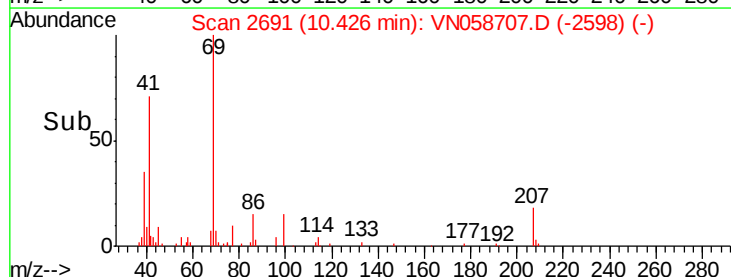
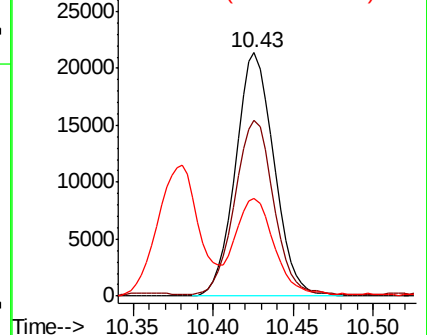
39 40.2 32.5 48.7

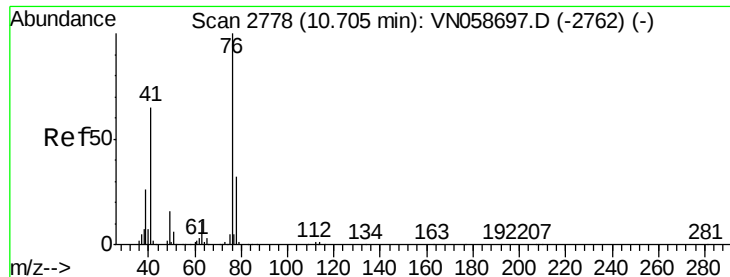


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 5.047 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

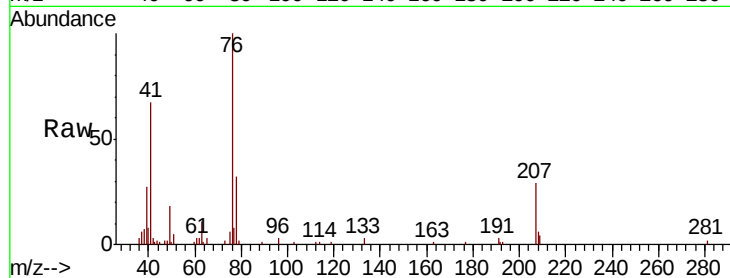
MDL-MDL-WATER-03-QT4-2019

Tot Ion: 76 Resp: 43313

Ion Ratio Lower Upper

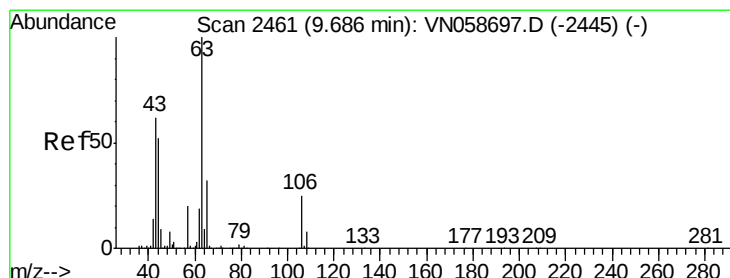
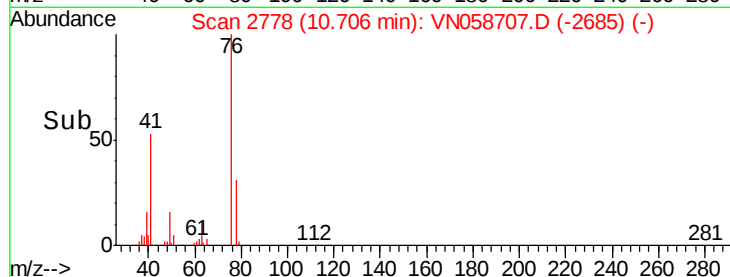
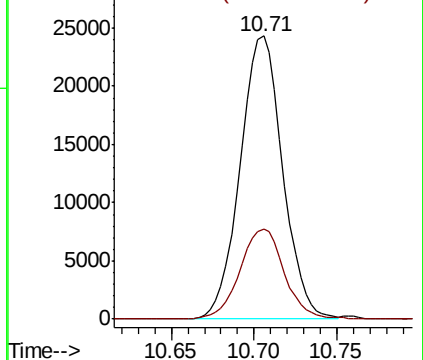
76 100

78 33.2 25.9 38.9



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 22.539 ug/l

RT: 9.69 min Scan# 2462

Delta R.T. 0.00 min

Lab File: VN058707.D

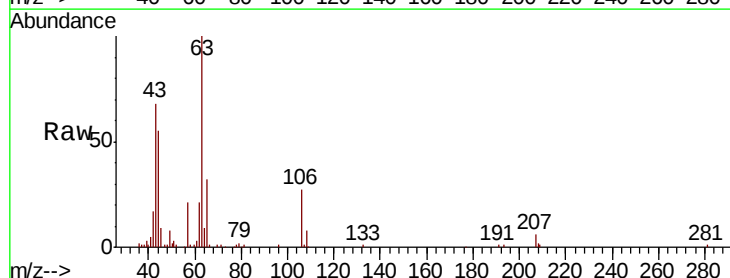
Acq: 11 Oct 2019 16:42

Tgt Ion: 63 Resp: 79925

Ion Ratio Lower Upper

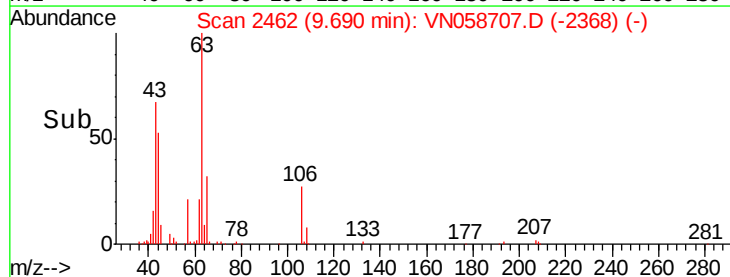
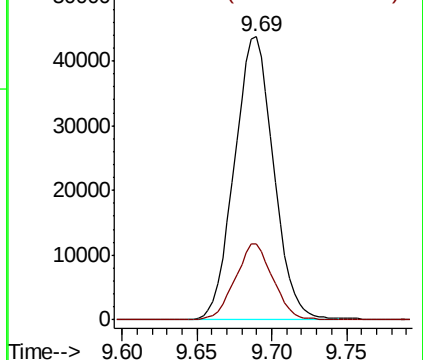
63 100

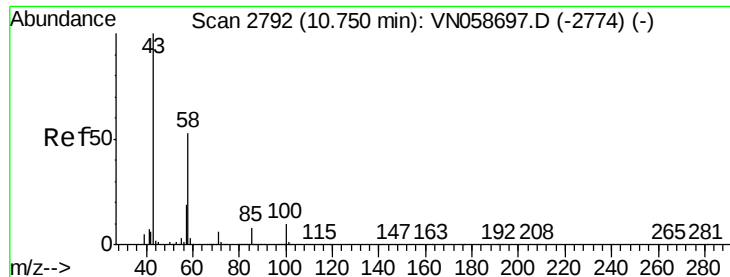
106 25.8 20.0 30.0



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

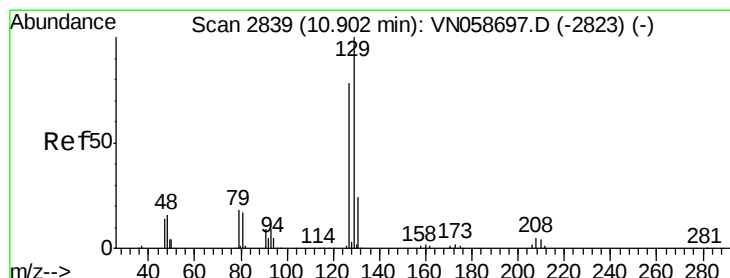
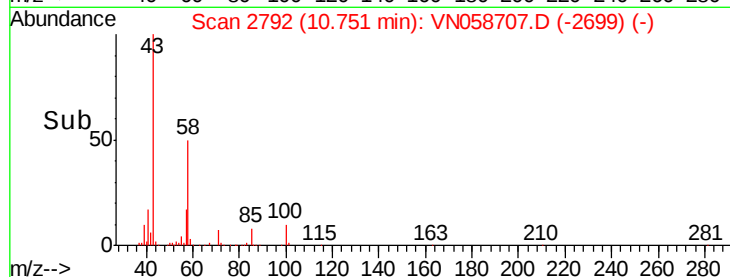
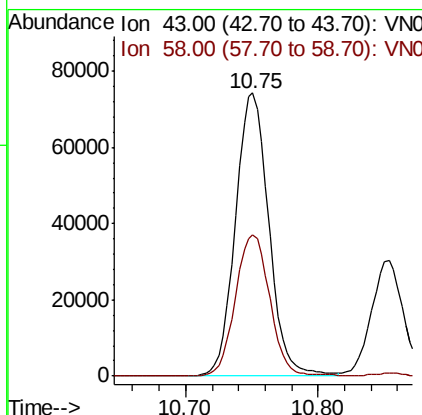
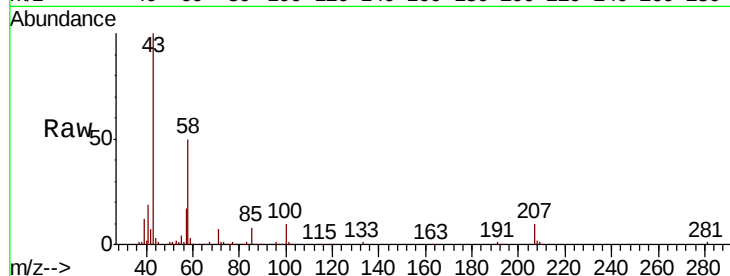




#59
2-Hexanone
Concen: 24.852 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

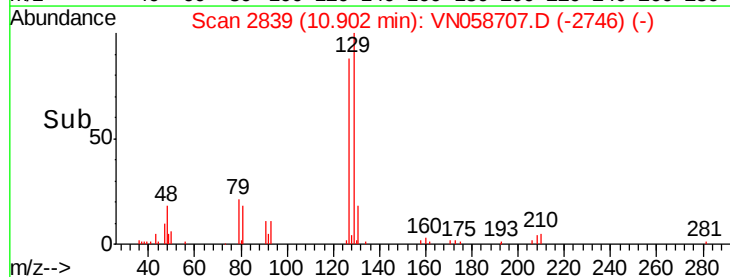
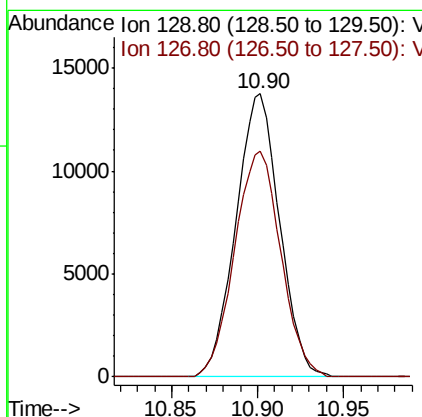
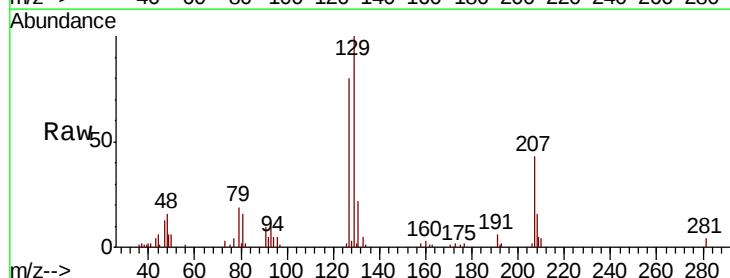
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

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



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

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

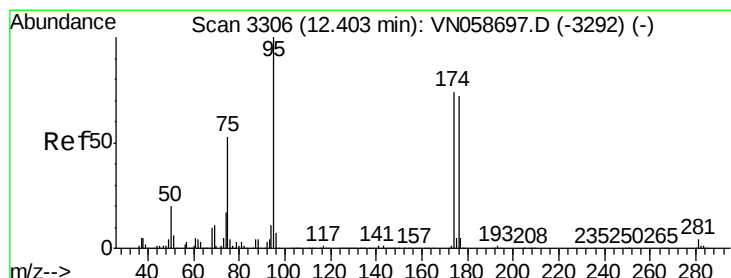
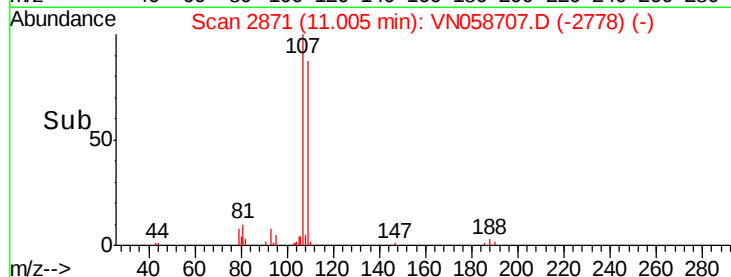
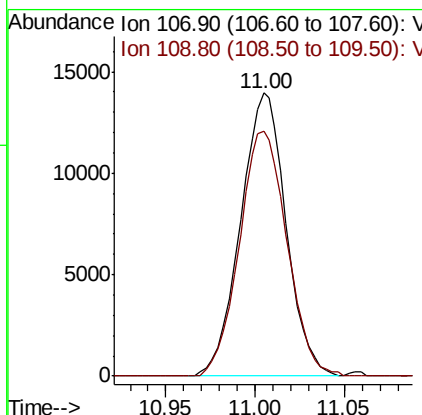
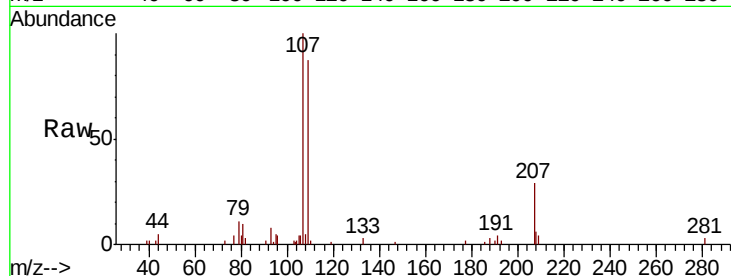




#61
 1,2-Dibromoethane
 Concen: 4.921 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN058707.D
 Acq: 11 Oct 2019 16:42

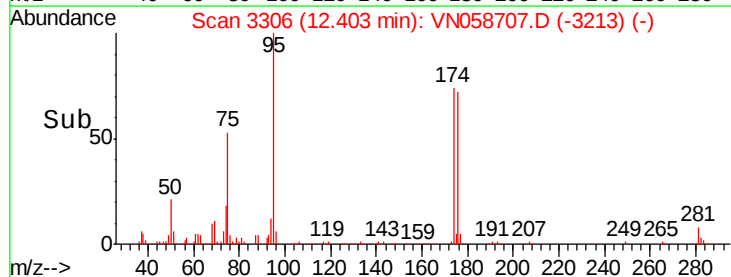
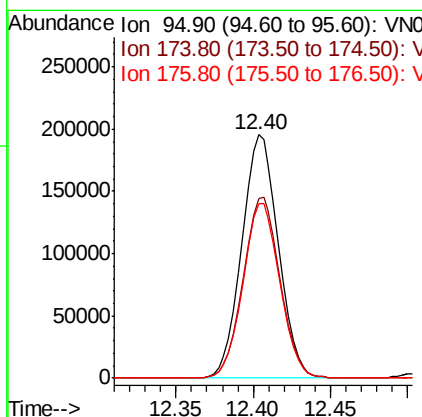
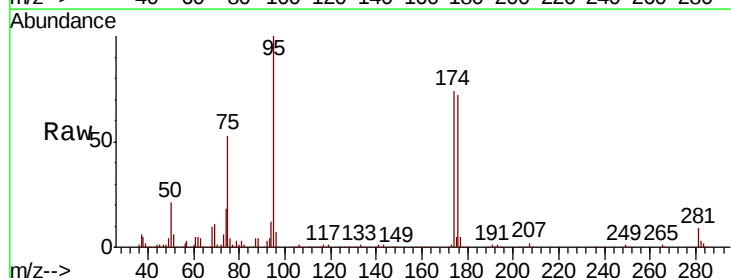
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019

Tot Ion: 107 Resp: 24831
 Ion Ratio Lower Upper
 107 100
 109 90.6 75.4 113.0



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

Tgt Ion: 95 Resp: 320428
 Ion Ratio Lower Upper
 95 100
 174 75.3 0.0 150.4
 176 72.6 0.0 146.8

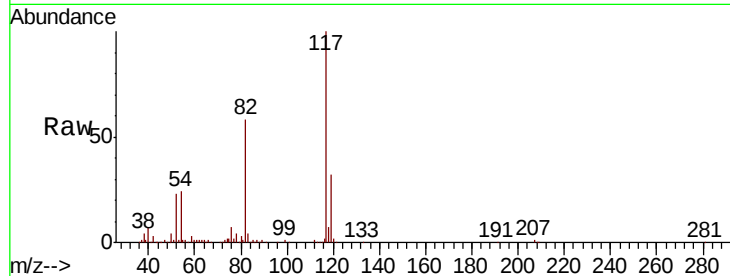




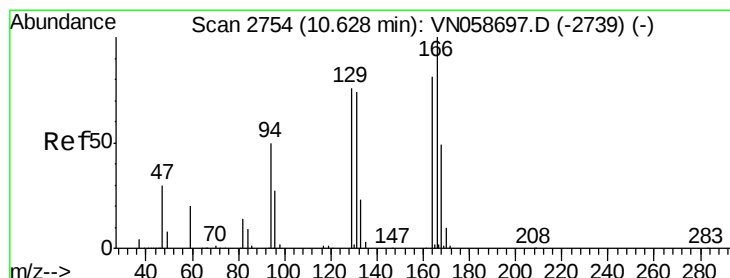
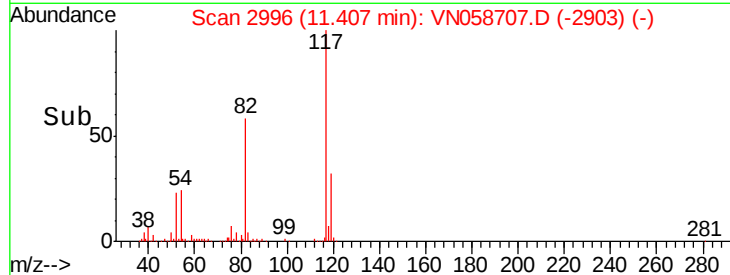
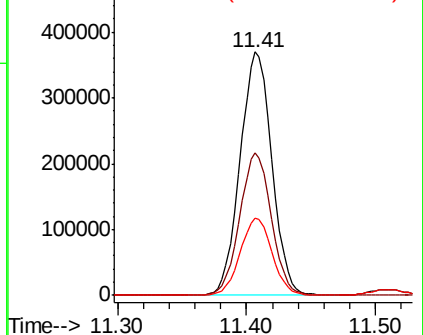
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

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

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

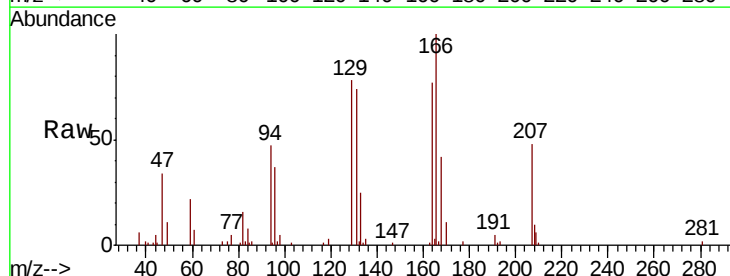


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

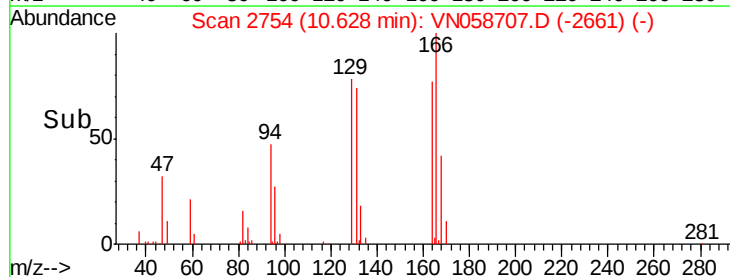
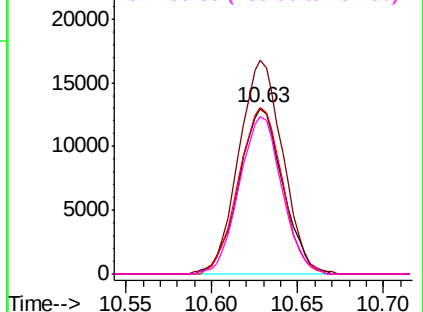


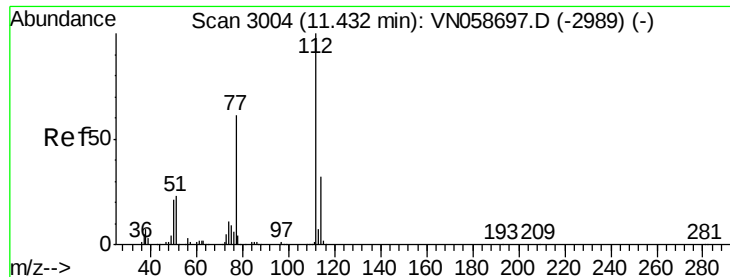
#64
Tetrachloroethene
Concen: 5.208 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

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



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

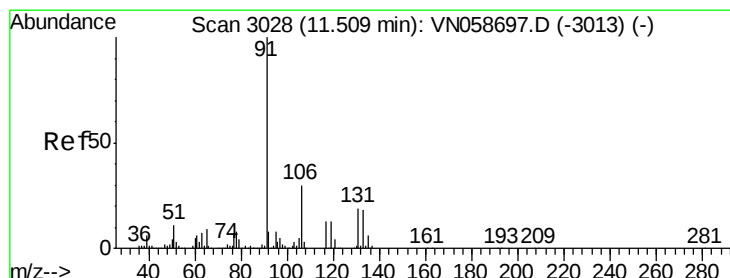
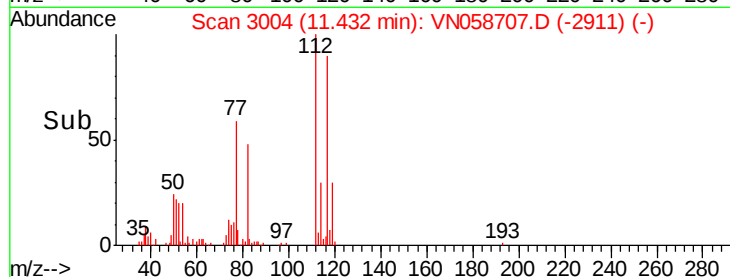
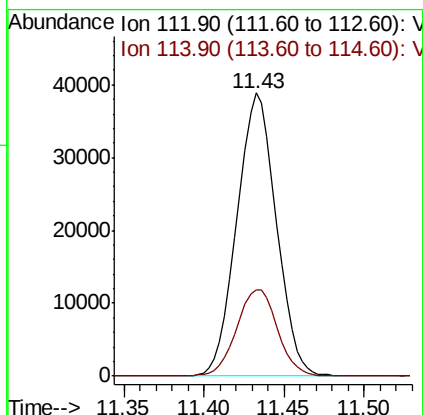
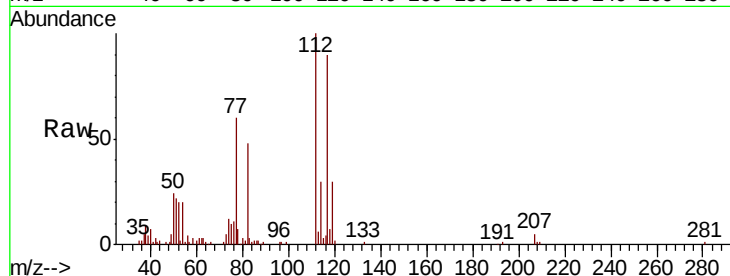




#65
Chlorobenzene
Concen: 5.067 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

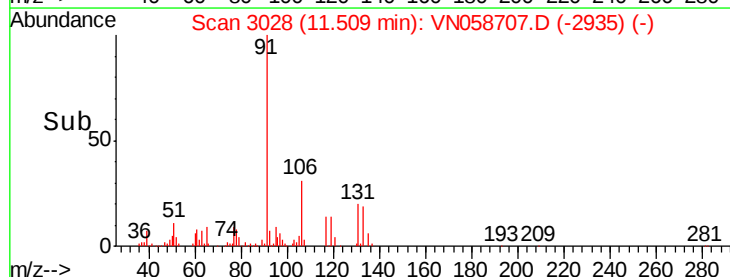
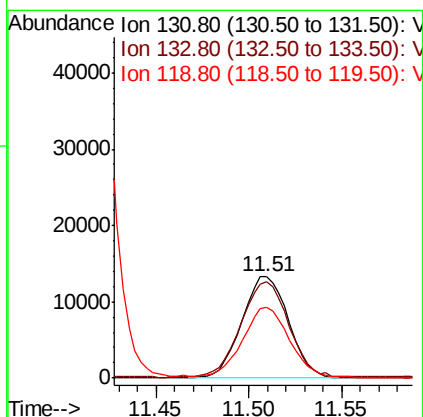
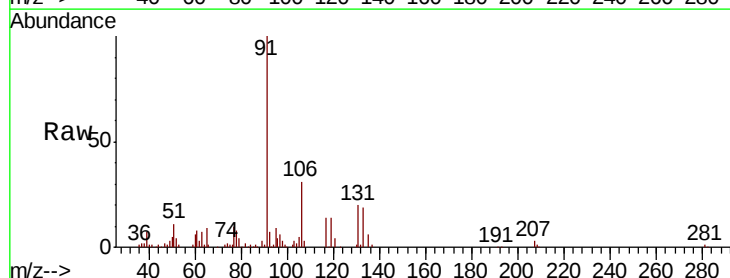
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

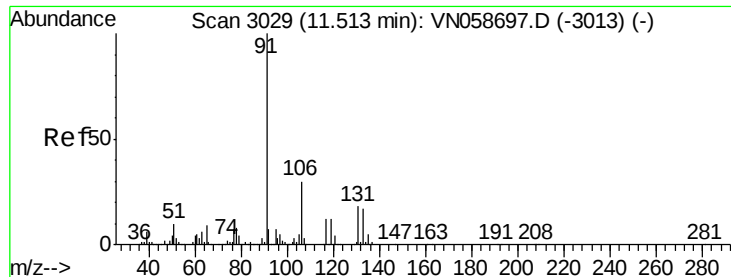
Tot Ion:112 Resp: 65295
Ion Ratio Lower Upper
112 100
114 30.5 25.2 37.8



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

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





#67

Ethyl Benzene

Concen: 4.987 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

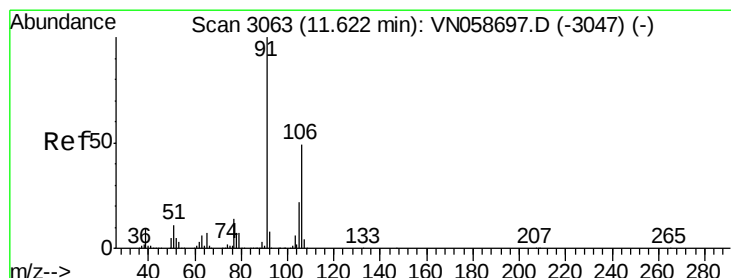
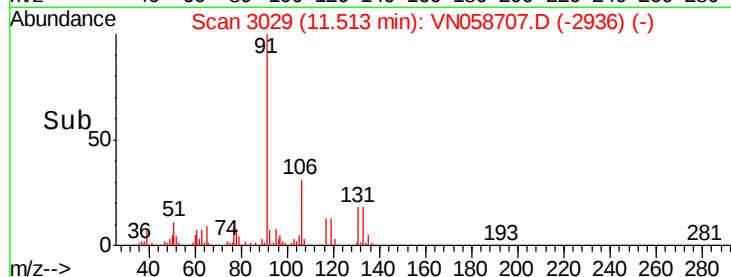
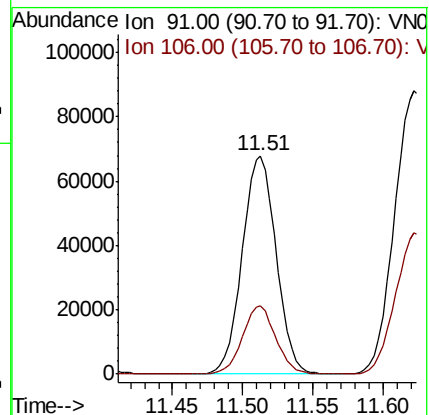
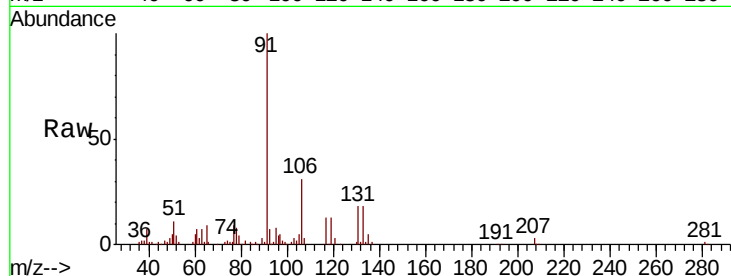
MDL-MDL-WATER-03-QT4-2019

Tot Ion: 91 Resp: 114535

Ion Ratio Lower Upper

91 100

106 31.5 24.1 36.1



#68

m/p-Xylenes

Concen: 9.711 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN058707.D

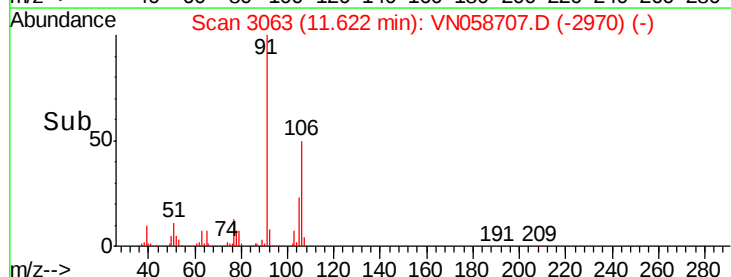
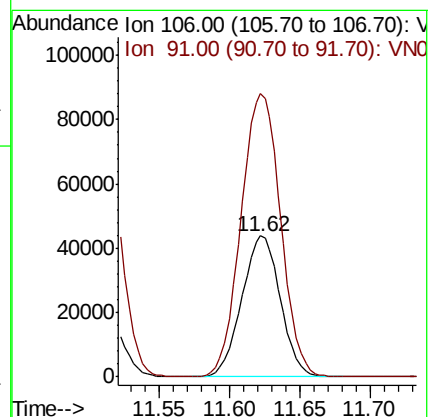
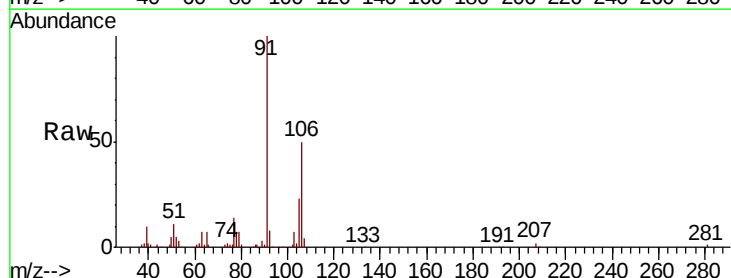
Acq: 11 Oct 2019 16:42

Tgt Ion: 106 Resp: 83704

Ion Ratio Lower Upper

106 100

91 207.0 165.7 248.5

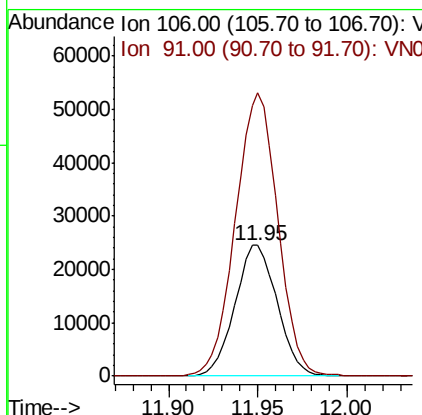
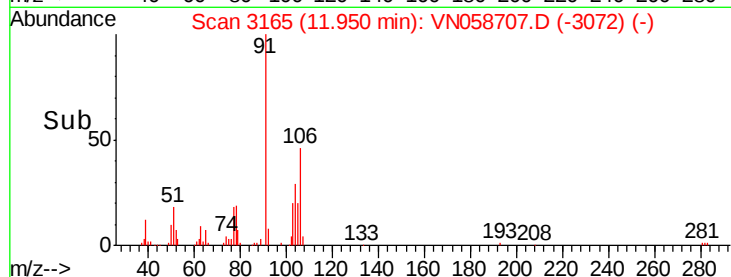
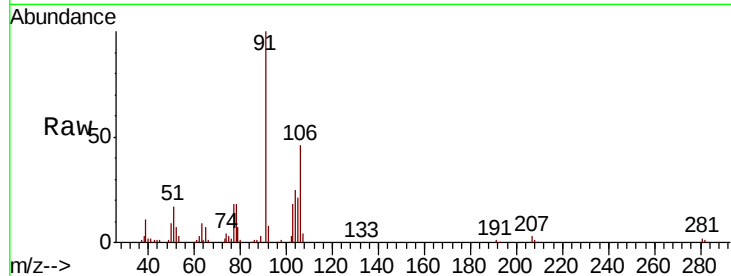




#69
o-Xylene
Concen: 4.851 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

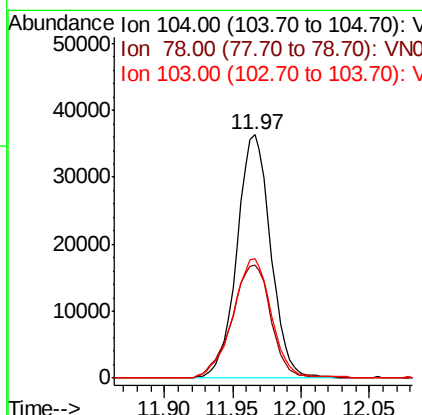
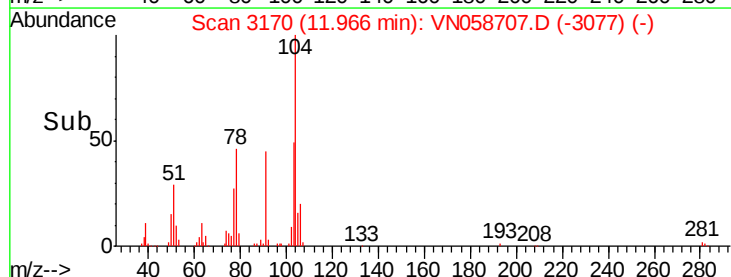
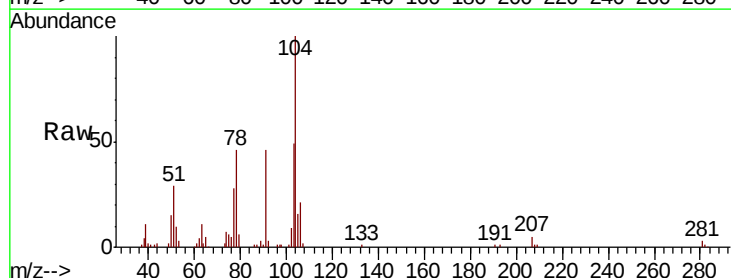
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

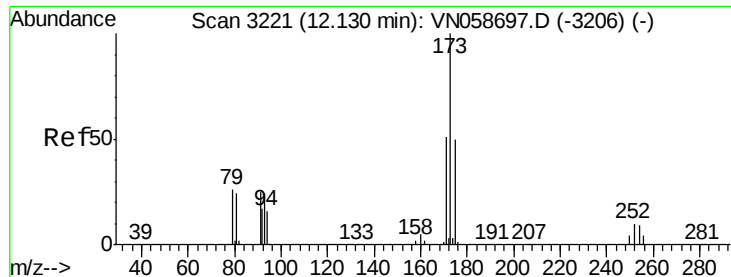
Tot Ion:106 Resp: 40457
Ion Ratio Lower Upper
106 100
91 217.1 110.9 332.9



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

Tgt Ion:104 Resp: 62606
Ion Ratio Lower Upper
104 100
78 53.3 42.2 63.2
103 55.6 43.7 65.5

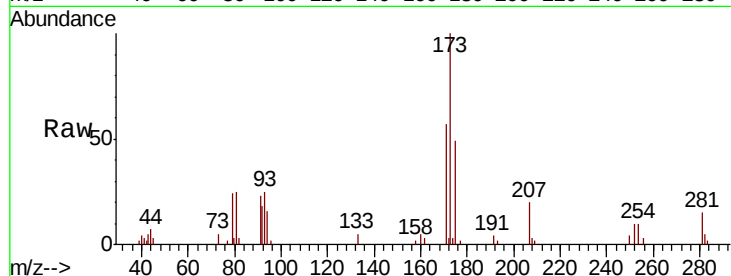




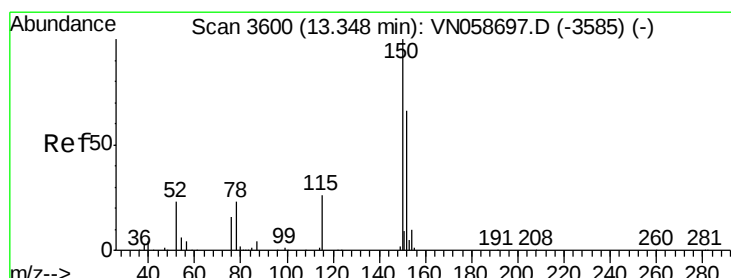
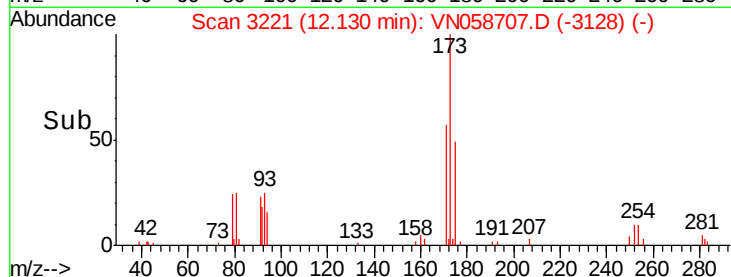
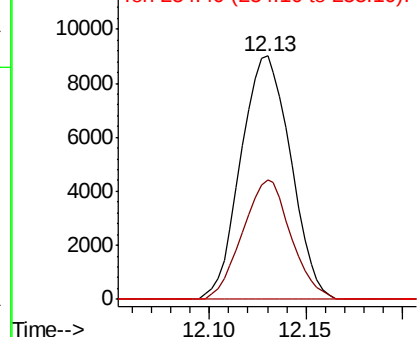
#71
Bromoform
Concen: 4.625 ug/l
RT: 12.13 min Scan# 3221
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

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

Tot Ion:173 Resp: 16153
Ion Ratio Lower Upper
173 100
175 47.6 24.6 73.8
254 0.0 0.1 0.1#

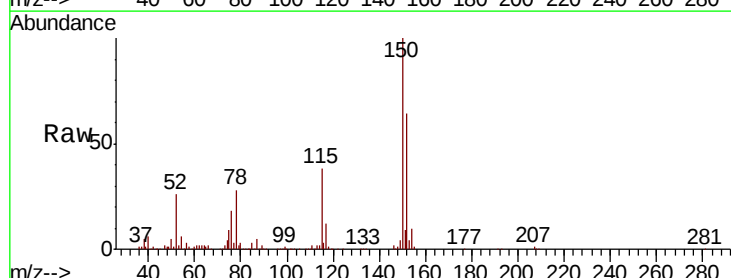


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

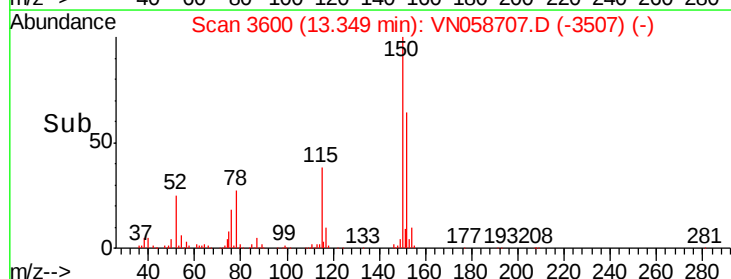
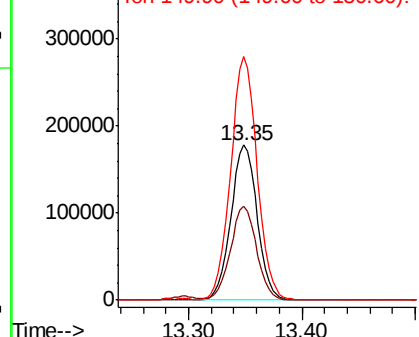


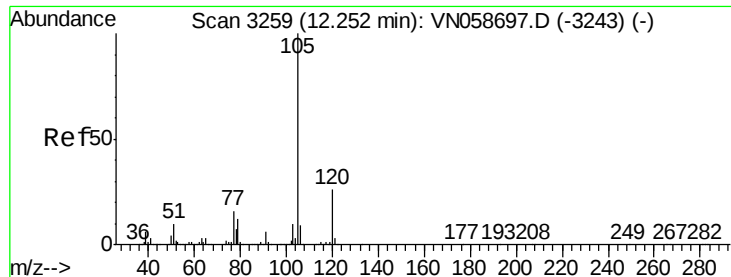
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

Tgt Ion:152 Resp: 287459
Ion Ratio Lower Upper
152 100
115 60.1 30.4 91.2
150 157.8 0.0 345.4



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





#73

Isopropylbenzene

Concen: 5.206 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

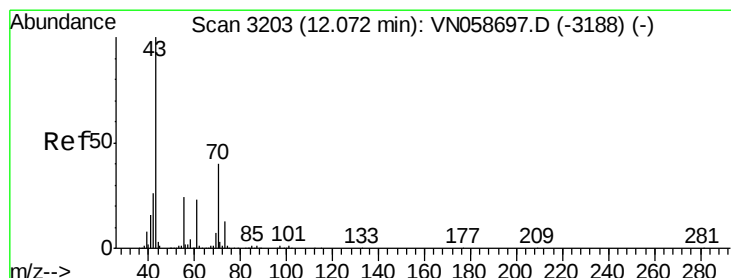
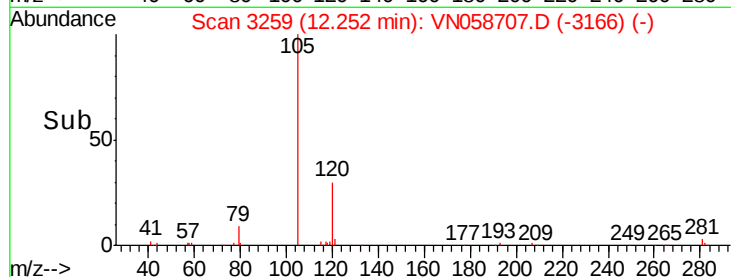
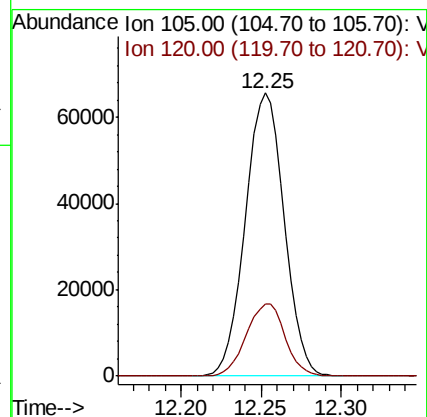
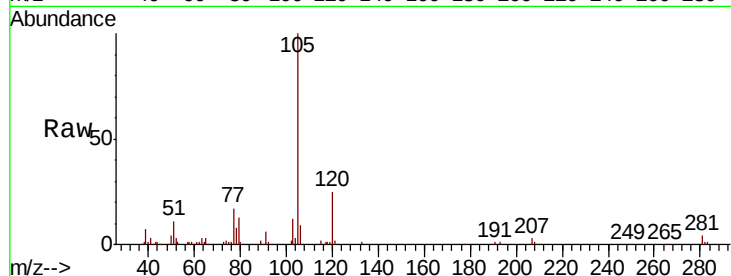
MDL-MDL-WATER-03-QT4-2019

Tot Ion:105 Resp: 108383

Ion Ratio Lower Upper

105 100

120 25.5 13.1 39.1



#74

N-ethyl acetate

Concen: 4.790 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Tgt Ion: 43 Resp: 44786

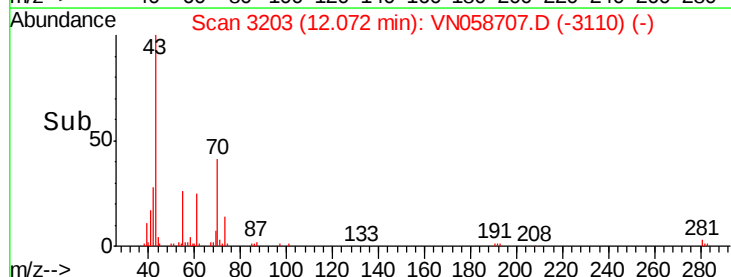
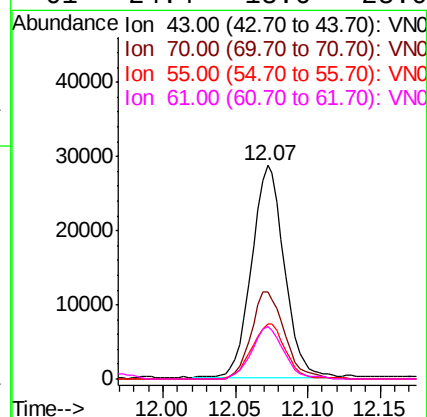
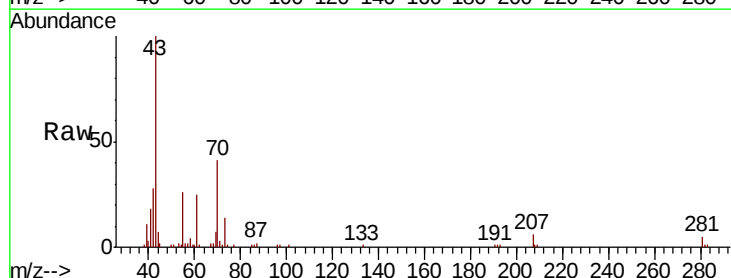
Ion Ratio Lower Upper

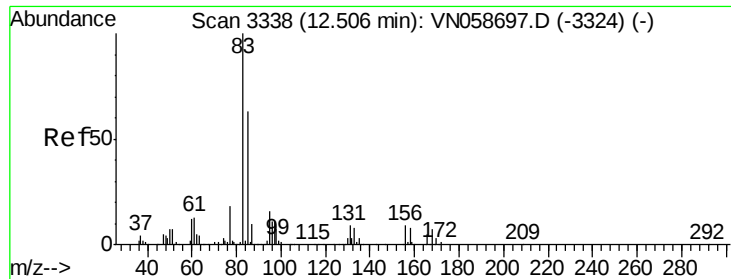
43 100

70 42.0 32.2 48.4

55 27.1 19.6 29.4

61 24.4 18.6 28.0





#75

1,1,2,2-Tetrachloroethane

Concen: 5.273 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

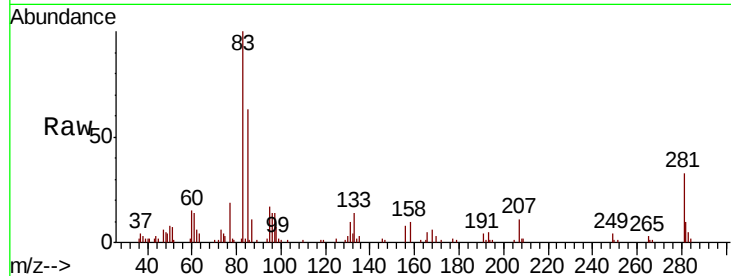
Tot Ion: 83 Resp: 36166

Ion Ratio Lower Upper

83 100

131 10.7 4.8 14.4

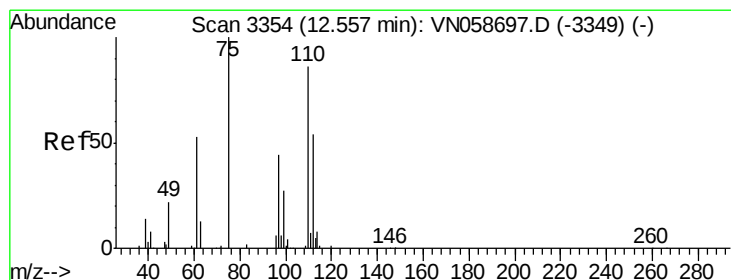
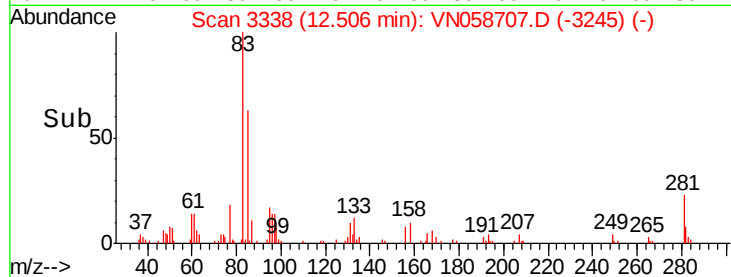
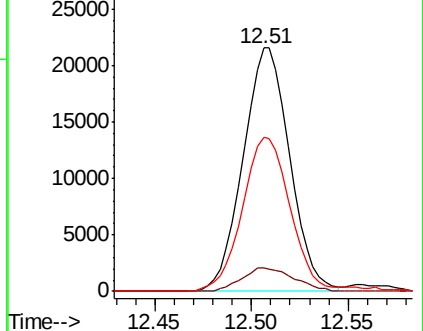
85 64.3 31.9 95.5



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 7.725 ug/l

RT: 12.56 min Scan# 3354

Delta R.T. 0.00 min

Lab File: VN058707.D

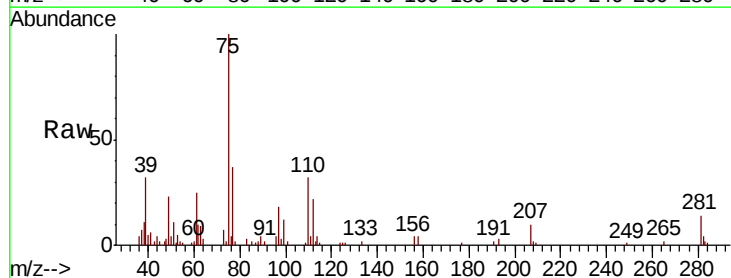
Acq: 11 Oct 2019 16:42

Tgt Ion: 75 Resp: 48718

Ion Ratio Lower Upper

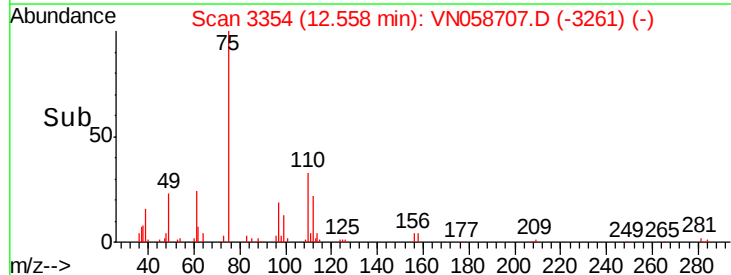
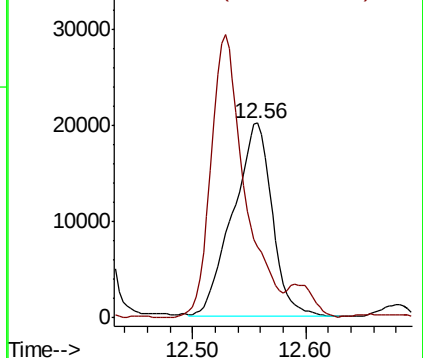
75 100

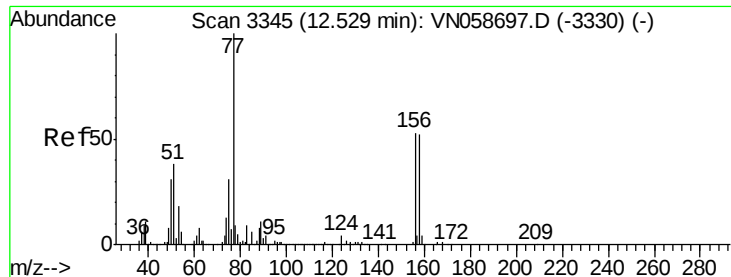
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 5.218 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

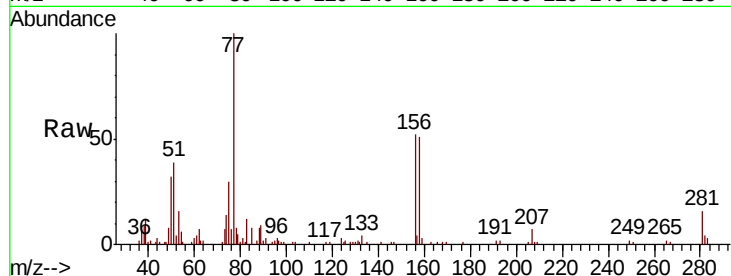
Tot Ion:156 Resp: 26423

Ion Ratio Lower Upper

156 100

77 232.4 115.8 347.3

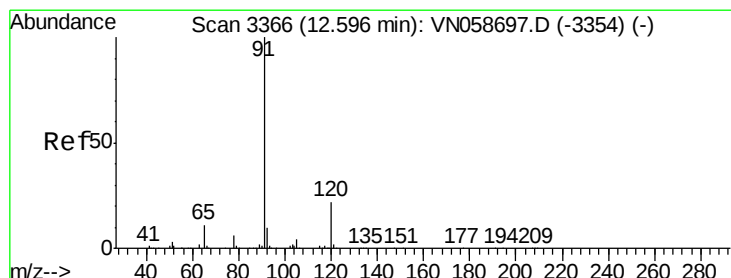
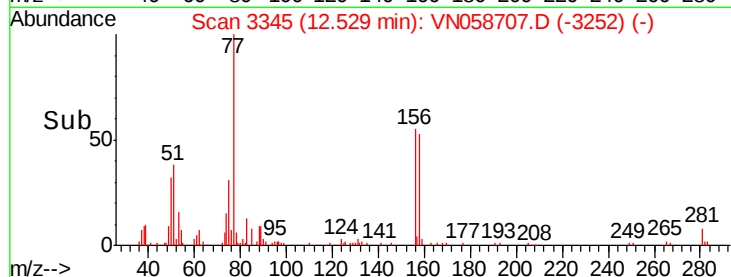
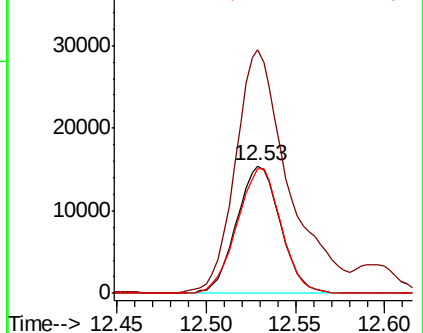
158 98.8 48.9 146.6



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: 5.331 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. -0.00 min

Lab File: VN058707.D

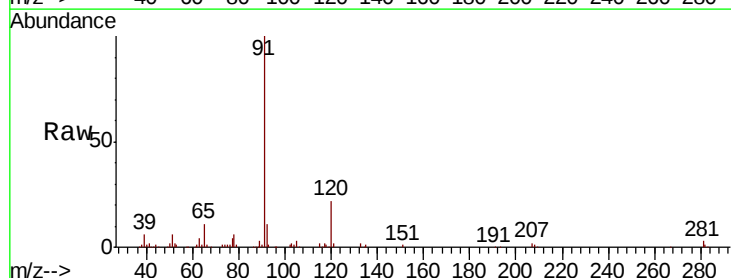
Acq: 11 Oct 2019 16:42

Tgt Ion: 91 Resp: 129318

Ion Ratio Lower Upper

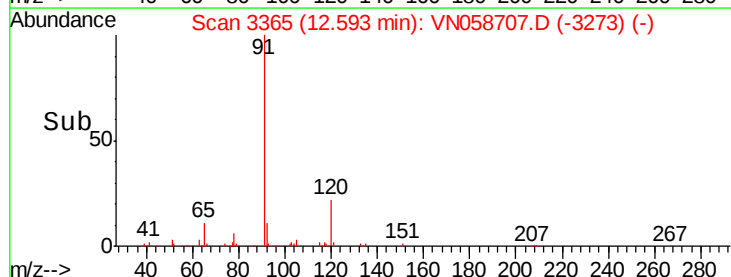
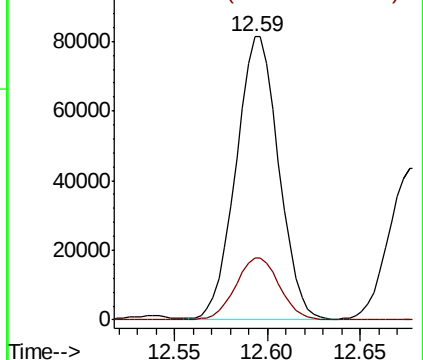
91 100

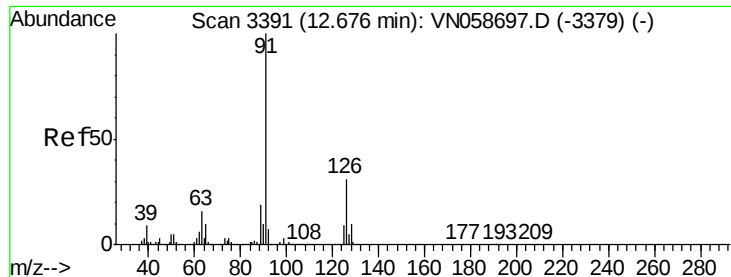
120 22.4 11.1 33.3



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

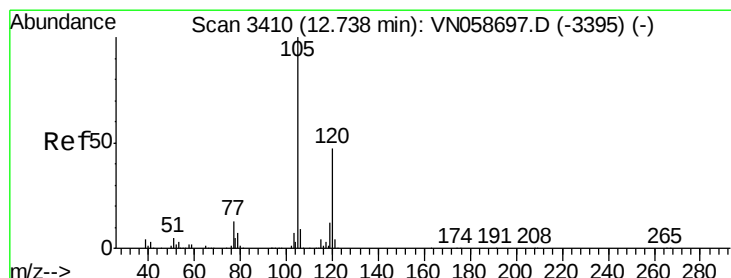
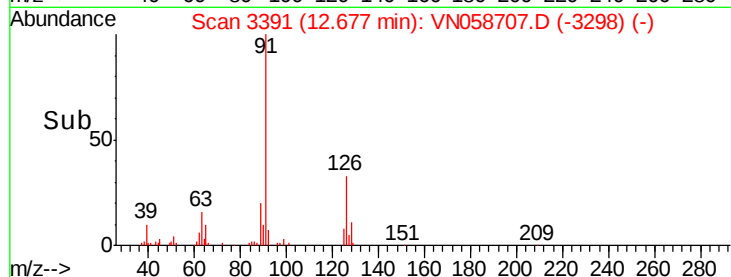
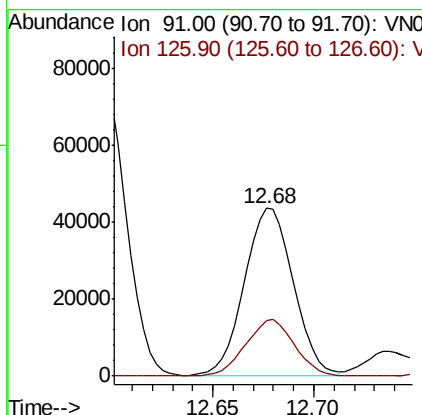
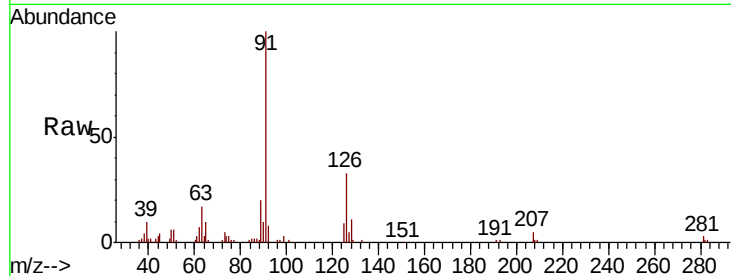




#79
 2-Chlorotoluene
 Concen: 4.923 ug/l
 RT: 12.68 min Scan# 3391
 Delta R.T. 0.00 min
 Lab File: VN058707.D
 Acq: 11 Oct 2019 16:42

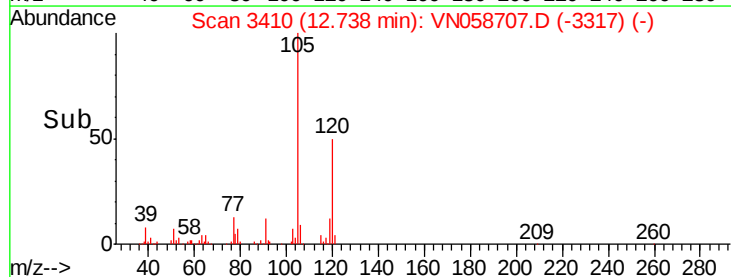
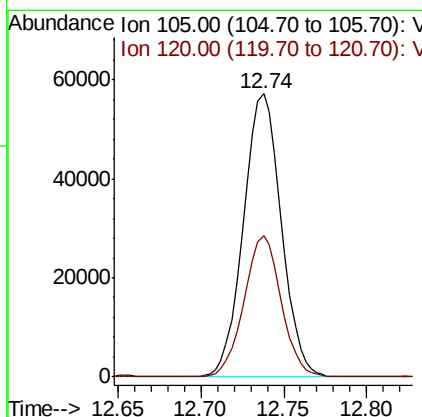
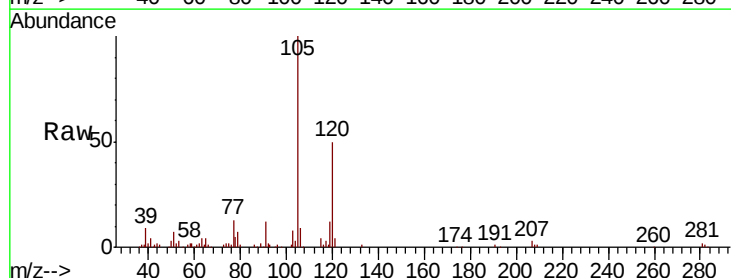
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019

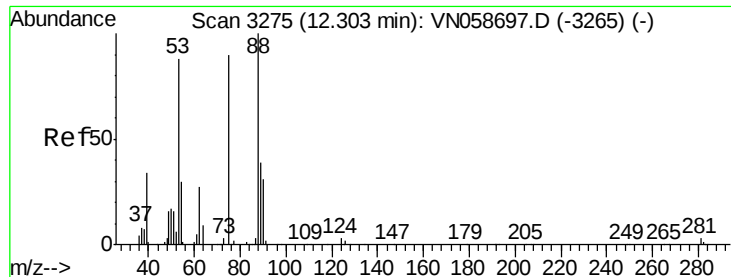
Tot Ion: 91 Resp: 74118
 Ion Ratio Lower Upper
 91 100
 126 33.6 16.2 48.5



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

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





#81

trans-1,4-Dichloro-2-butene

Concen: 4.289 ug/l

RT: 12.30 min Scan# 3275

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

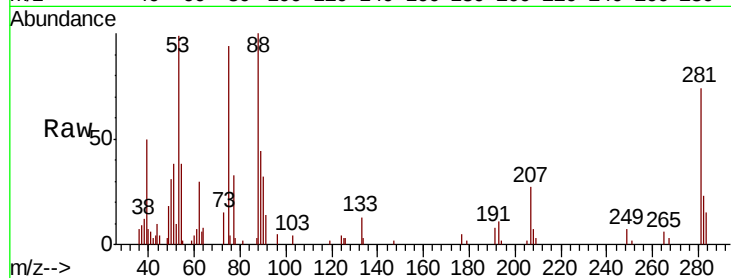
MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

Tot Ion: 75 Resp: 10097

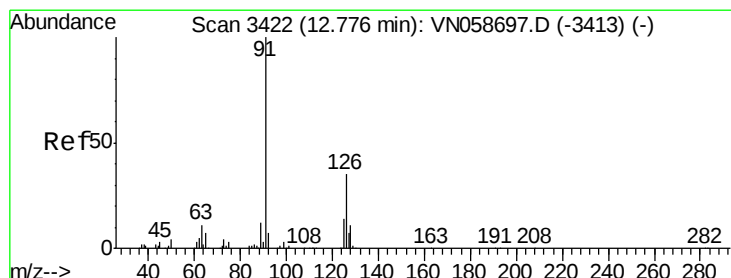
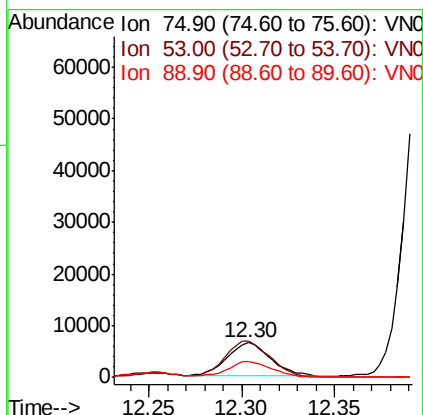
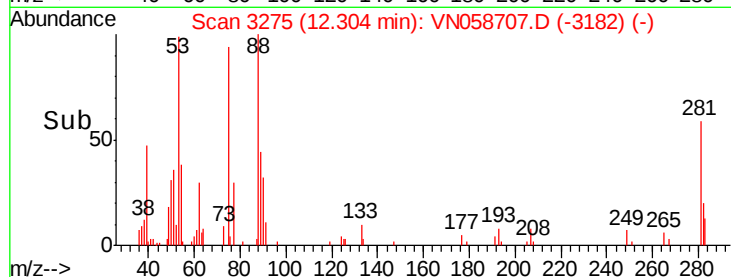
Ion	Ratio	Lower	Upper
75	100		
53	116.1	78.4	117.6
89	51.9	34.9	52.3



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#82

4-Chlorotoluene

Concen: 5.010 ug/l

RT: 12.78 min Scan# 3422

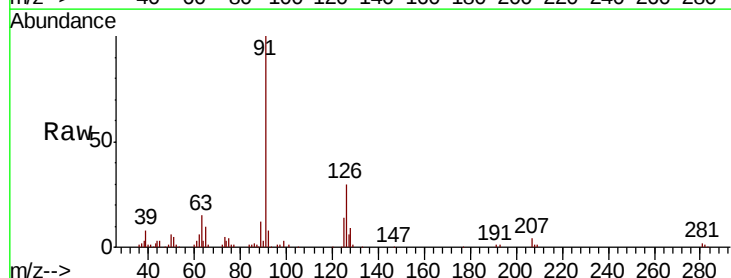
Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

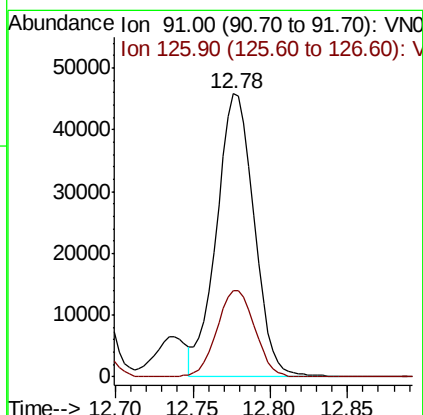
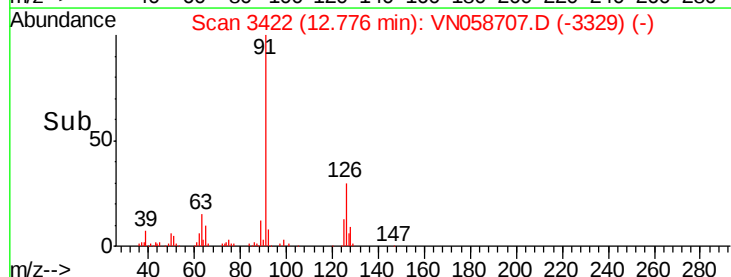
Tgt Ion: 91 Resp: 77406

Ion	Ratio	Lower	Upper
91	100		
126	30.7	15.9	47.6



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

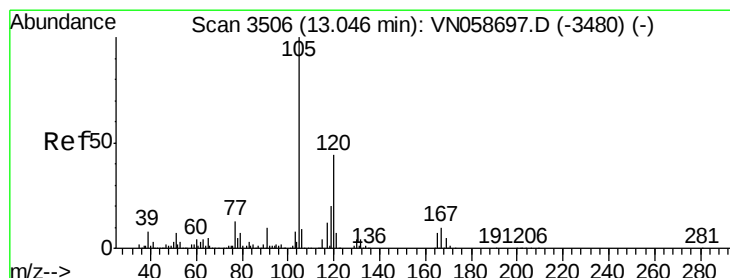
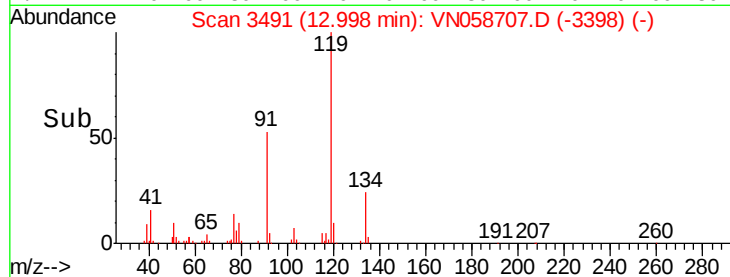
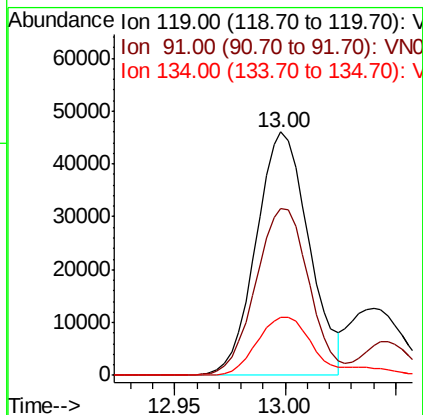
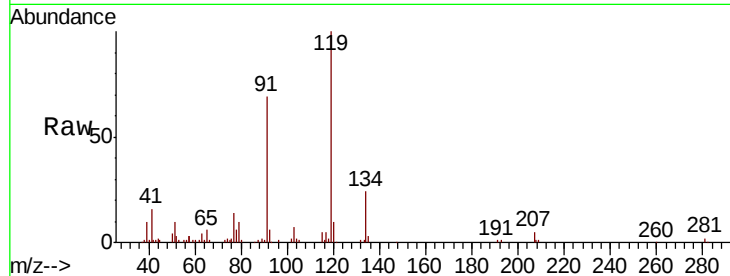




#83
tert-Butylbenzene
Concen: 5.018 ug/l
RT: 13.00 min Scan# 3491
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

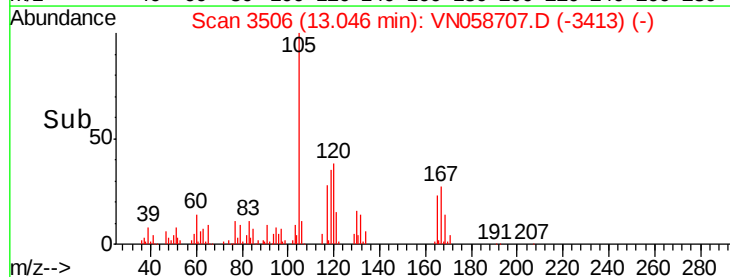
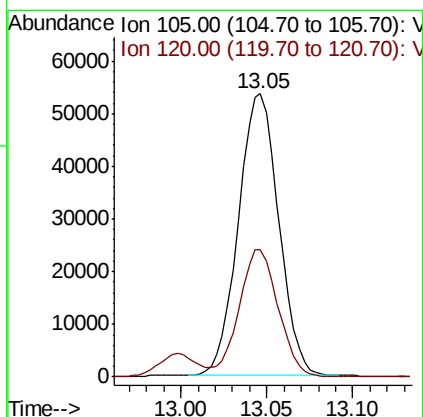
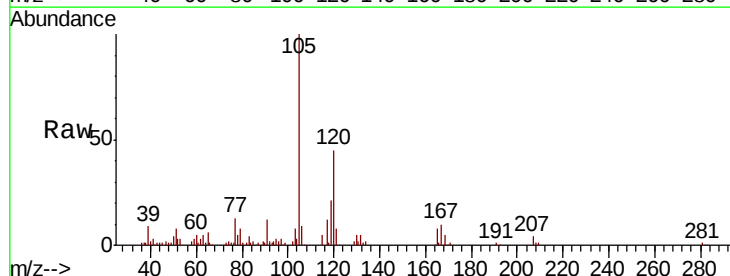
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion:119 Resp: 76403
Ion Ratio Lower Upper
119 100
91 69.2 33.8 101.3
134 24.6 12.6 37.6



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

Tgt Ion:105 Resp: 87301
Ion Ratio Lower Upper
105 100
120 43.7 21.9 65.7





#85

sec-Butylbenzene

Concen: 5.078 ug/l

RT: 13.18 min Scan# 3547

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

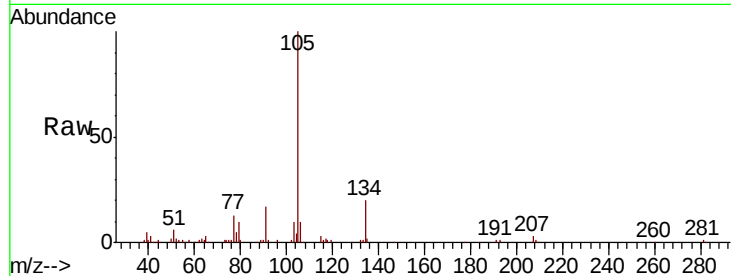
MDL-MDL-WATER-03-QT4-2019

Tot Ion:105 Resp: 101888

Ion Ratio Lower Upper

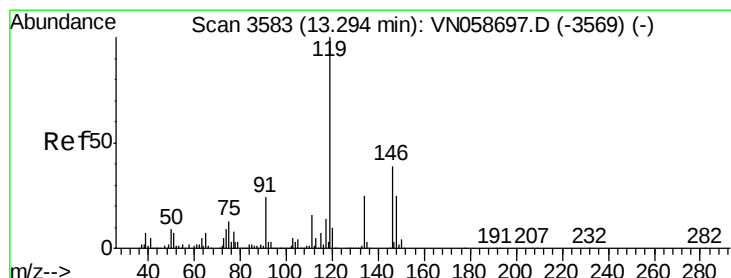
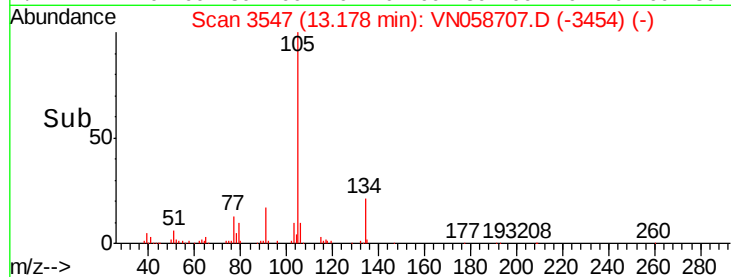
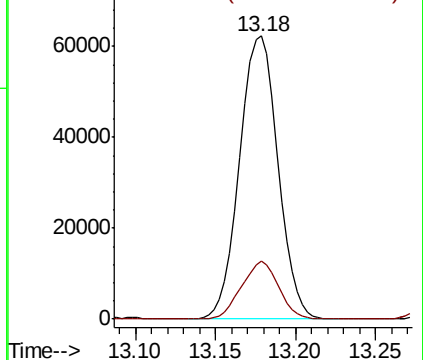
105 100

134 19.7 9.7 29.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 4.925 ug/l

RT: 13.29 min Scan# 3583

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

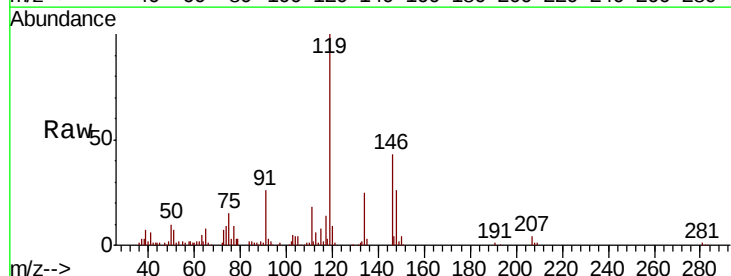
Tgt Ion:119 Resp: 89812

Ion Ratio Lower Upper

119 100

134 25.4 12.7 38.1

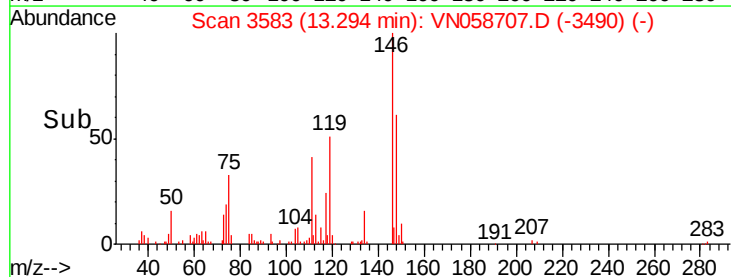
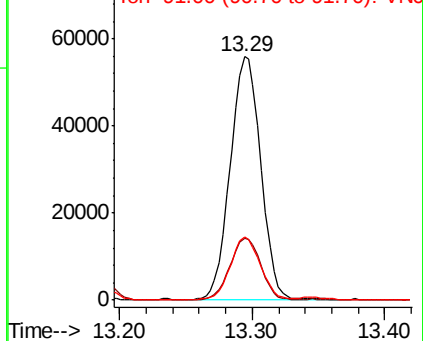
91 25.7 11.9 35.5

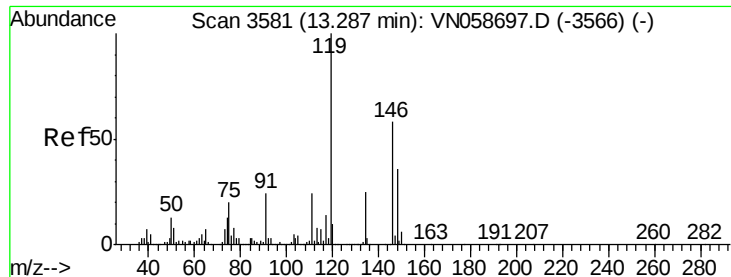


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

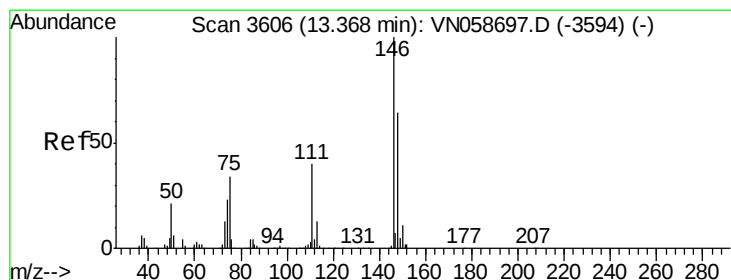
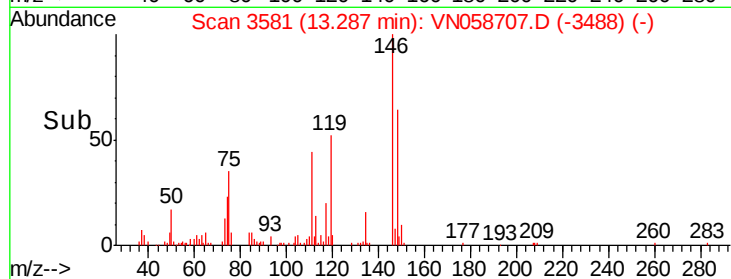
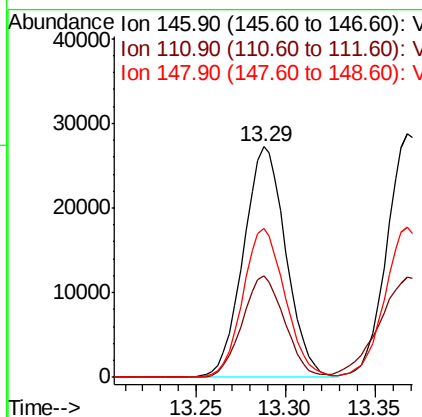
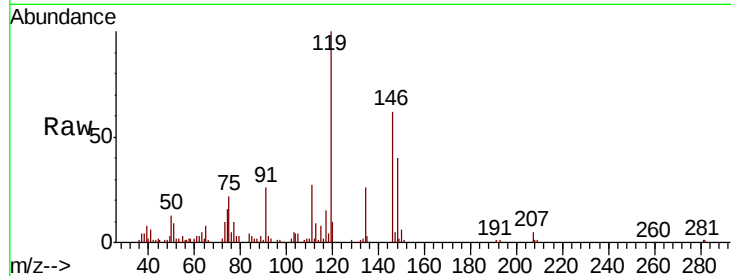




#87
 1,3-Dichlorobenzene
 Concen: 4.861 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN058707.D
 Acq: 11 Oct 2019 16:42

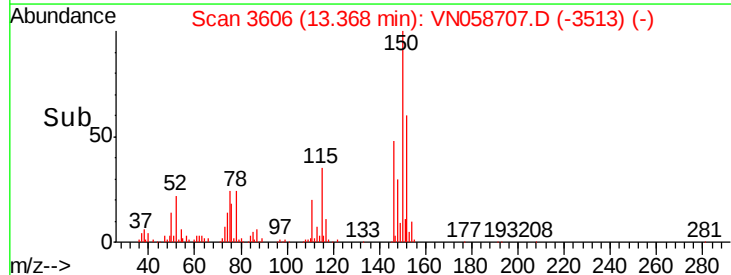
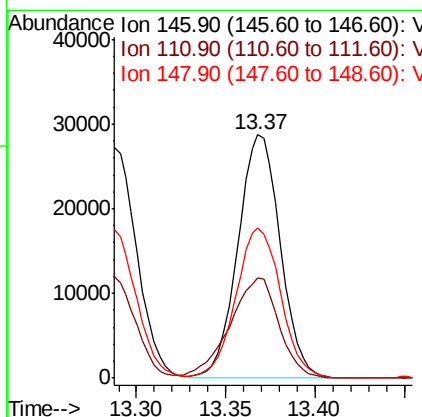
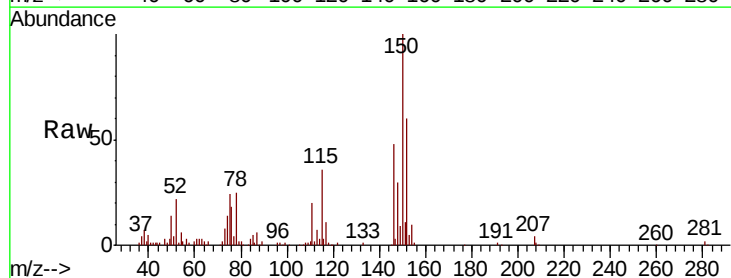
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019

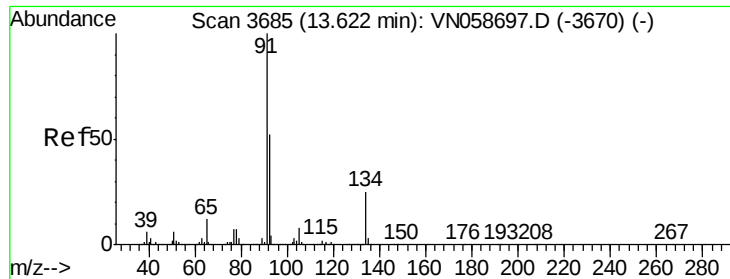
Tot Ion	Ratio	Lower	Upper
146	100		
111	43.8	20.5	61.6
148	64.0	31.3	93.9



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

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





#89

n-Butylbenzene

Concen: 4.547 ug/l

RT: 13.62 min Scan# 3685

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

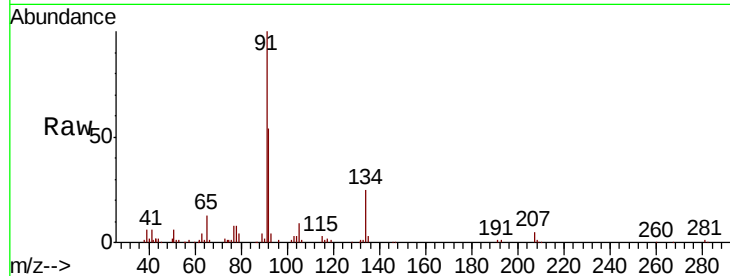
Tot Ion: 91 Resp: 76661

Ion Ratio Lower Upper

91 100

92 52.0 26.0 78.0

134 24.4 12.2 36.6

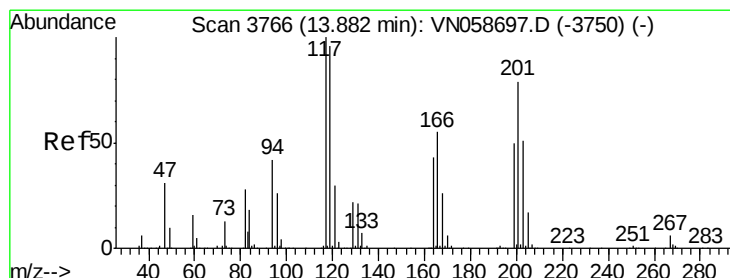
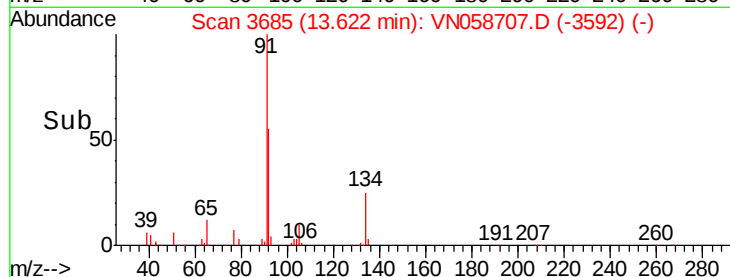


Abundance Ion 91.00 (90.70 to 91.70): VN058697.D (-3670) (-)

Ion 92.00 (91.70 to 92.70): VN058697.D (-3670) (-)

Ion 134.00 (133.70 to 134.70): VN058697.D (-3670) (-)

Time-->



#90

Hexachloroethane

Concen: 4.967 ug/l

RT: 13.88 min Scan# 3765

Delta R.T. -0.00 min

Lab File: VN058707.D

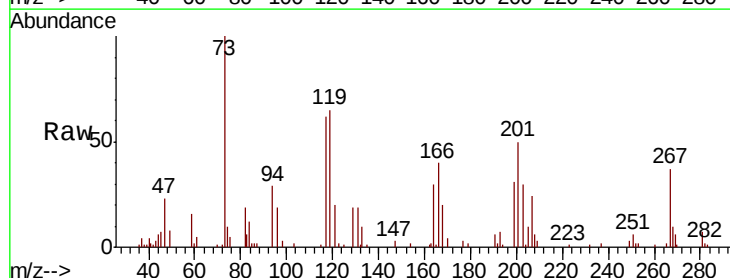
Acq: 11 Oct 2019 16:42

Tgt Ion: 117 Resp: 16207

Ion Ratio Lower Upper

117 100

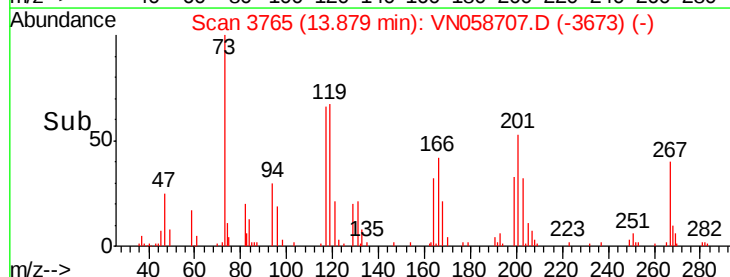
201 77.8 39.6 118.7

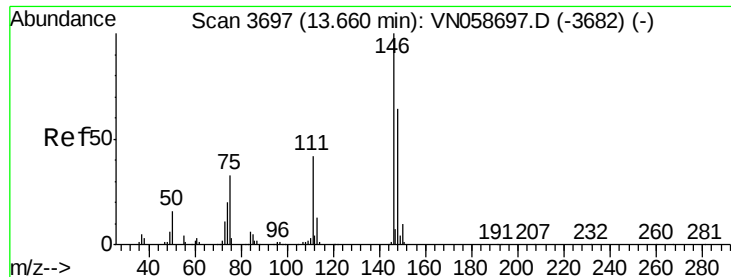


Abundance Ion 116.80 (116.50 to 117.50): VN058697.D (-3750) (-)

Ion 200.70 (200.40 to 201.40): VN058697.D (-3750) (-)

Time-->

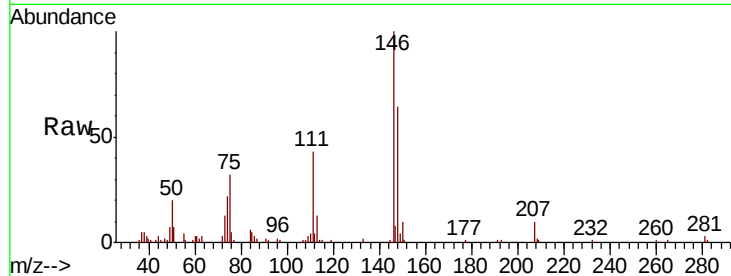




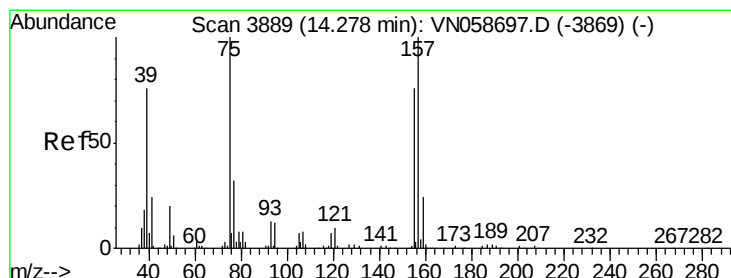
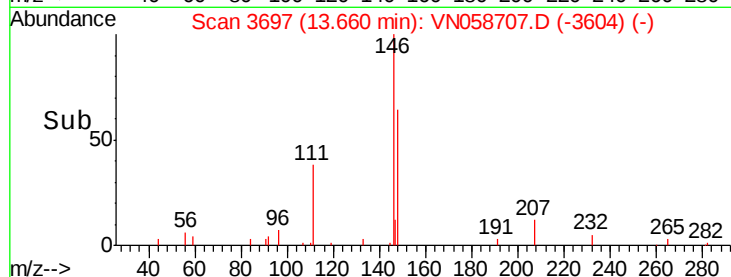
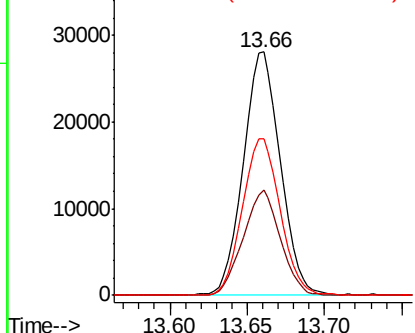
#91
 1,2-Dichlorobenzene
 Concen: 5.150 ug/l
 RT: 13.66 min Scan# 3697
 Delta R.T. 0.00 min
 Lab File: VN058707.D
 Acq: 11 Oct 2019 16:42

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

Tot Ion:146 Resp: 46874
 Ion Ratio Lower Upper
 146 100
 111 43.4 21.1 63.4
 148 65.5 31.8 95.3

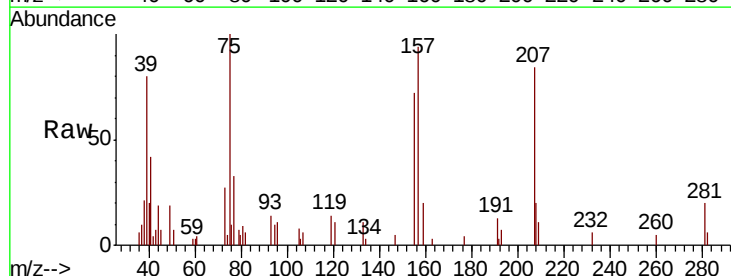


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

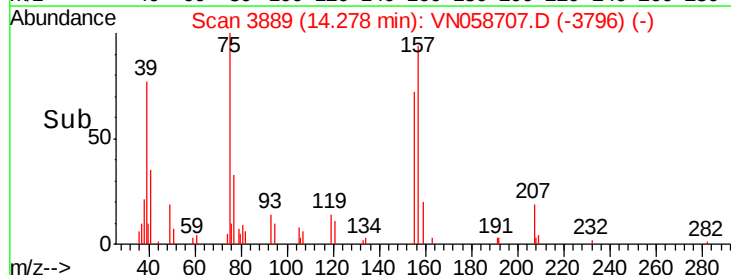
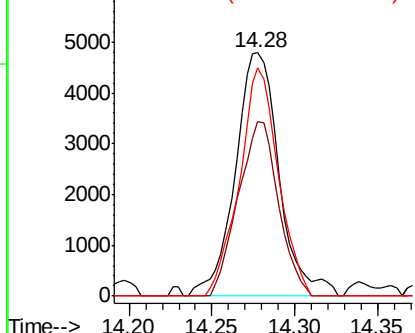


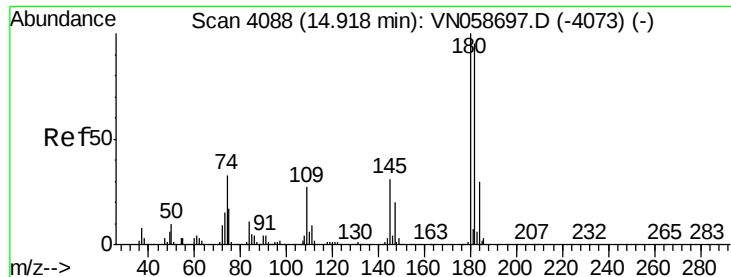
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 5.499 ug/l
 RT: 14.28 min Scan# 3889
 Delta R.T. 0.00 min
 Lab File: VN058707.D
 Acq: 11 Oct 2019 16:42

Tgt Ion: 75 Resp: 8810
 Ion Ratio Lower Upper
 75 100
 155 65.4 37.9 113.6
 157 82.8 49.4 148.2



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V





#93

1,2,4-Trichlorobenzene

Concen: 4.388 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

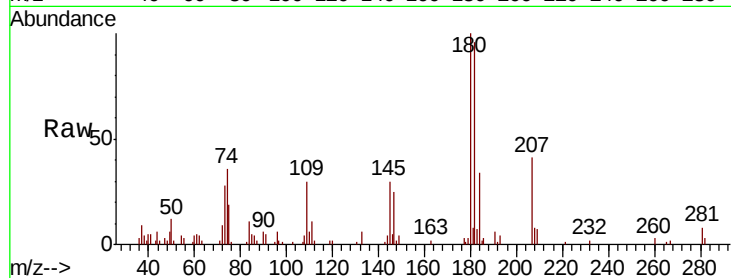
Tot Ion:180 Resp: 24361

Ion Ratio Lower Upper

180 100

182 96.5 47.4 142.2

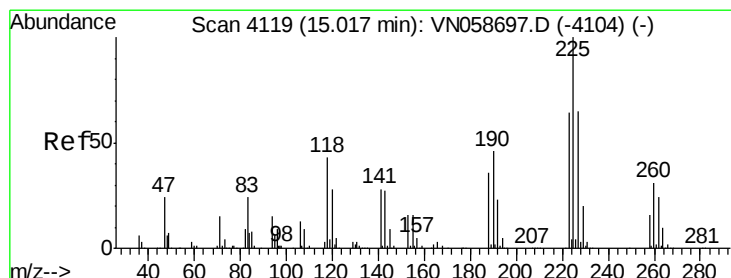
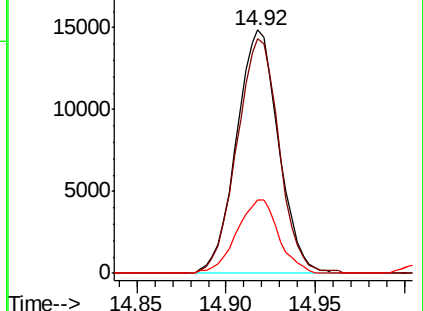
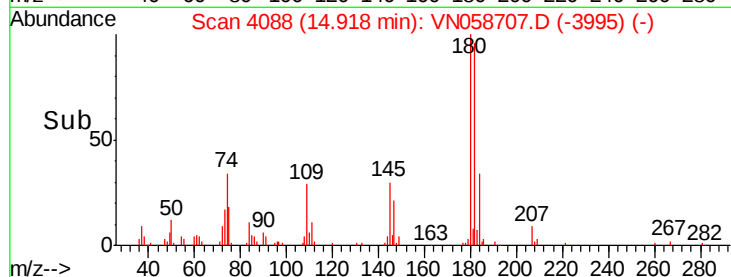
145 30.1 15.4 46.2



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 4.892 ug/l

RT: 15.02 min Scan# 4119

Delta R.T. 0.00 min

Lab File: VN058707.D

Acq: 11 Oct 2019 16:42

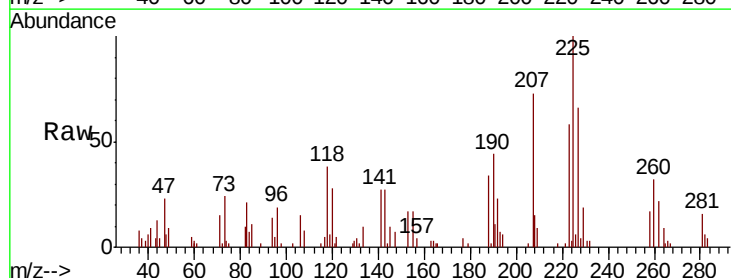
Tgt Ion:225 Resp: 14303

Ion Ratio Lower Upper

225 100

223 60.4 32.3 96.8

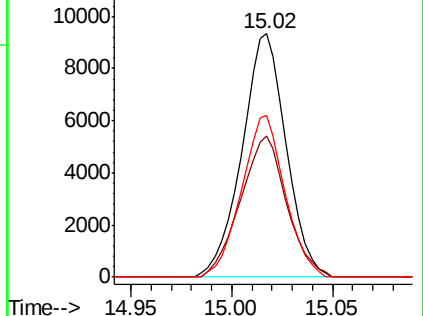
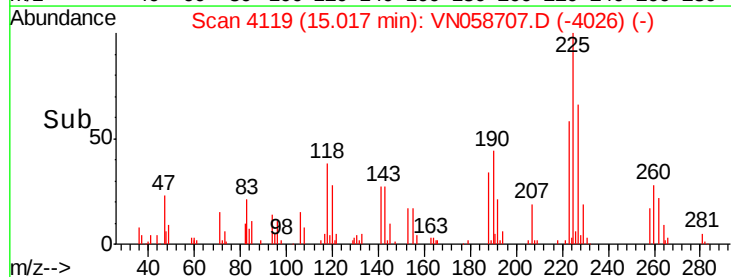
227 65.0 32.4 97.0



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

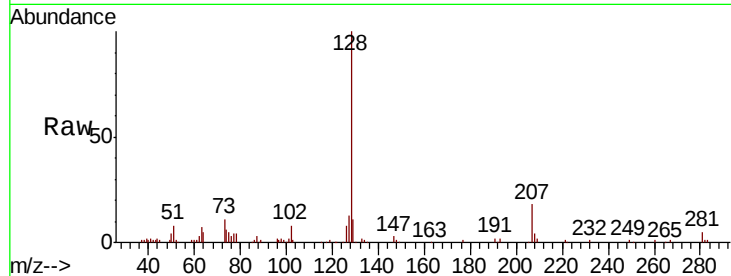




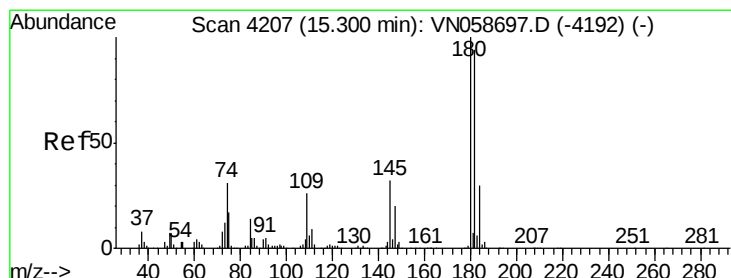
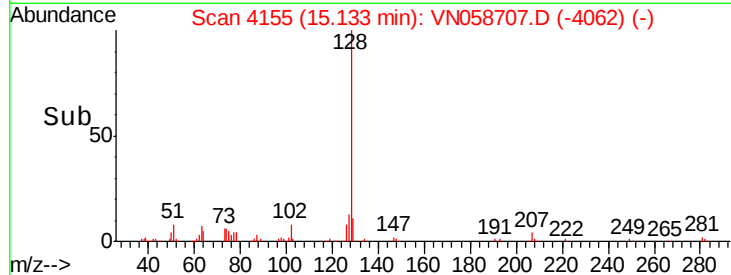
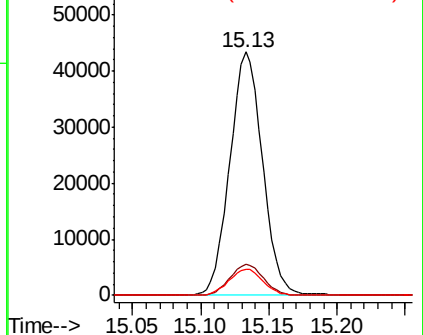
#95
Naphthalene
Concen: 4.529 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

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

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

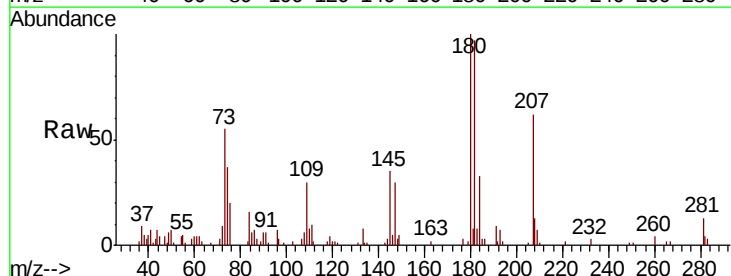


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 4.375 ug/l
RT: 15.30 min Scan# 4207
Delta R.T. 0.00 min
Lab File: VN058707.D
Acq: 11 Oct 2019 16:42

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



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

