

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

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

Quant Time: Oct 16 04:14:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	377244	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	611395	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	554661	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	236985	50.00	ug/l	0.00

System Monitoring Compounds

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

Target Compounds

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

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

39) Methylcyclohexane	9.07	83	17414	2.428	ug/l	94
40) Benzene	8.03	78	48212	2.716	ug/l	96
41) Methacrylonitrile	7.16	41	7490	2.559	ug/l #	23
42) 1,2-Dichloroethane	8.11	62	19461	2.853	ug/l	98
43) Isopropyl Acetate	8.15	43	28283	2.656	ug/l	99
44) Trichloroethene	8.82	130	12006	2.723	ug/l	100
45) 1,2-Dichloropropane	9.11	63	12599	2.651	ug/l	97
46) Dibromomethane	9.20	93	8585	2.849	ug/l	95
47) Bromodichloromethane	9.39	83	16815	2.740	ug/l	95
48) Methyl methacrylate	9.19	41	12474	2.584	ug/l	98
49) 1,4-Dioxane	9.19	88	4182	55.995	ug/l	98
51) 4-Methyl-2-Pentanone	9.98	43	79144	13.232	ug/l	98
52) Toluene	10.15	92	29477	2.715	ug/l	97
53) t-1,3-Dichloropropene	10.38	75	18232	2.591	ug/l #	87
54) cis-1,3-Dichloropropene	9.83	75	18595	2.489	ug/l	93
55) 1,1,2-Trichloroethane	10.55	97	12512	2.815	ug/l	94
56) Ethyl methacrylate	10.43	69	15351	2.364	ug/l	91
57) 1,3-Dichloropropane	10.70	76	20961	2.768	ug/l	95
58) 2-Chloroethyl Vinyl ether	9.69	63	34242	10.943	ug/l	98
59) 2-Hexanone	10.75	43	59049	12.775	ug/l	97
60) Dibromochloromethane	10.90	129	11519	2.513	ug/l	96
61) 1,2-Dibromoethane	11.00	107	11906	2.674	ug/l	95
64) Tetrachloroethene	10.63	164	10915	2.812	ug/l	96
65) Chlorobenzene	11.43	112	29800	2.646	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	11620	2.790	ug/l	96
67) Ethyl Benzene	11.51	91	51936	2.587	ug/l	99
68) m/p-Xylenes	11.62	106	37271	4.946	ug/l	99
69) o-Xylene	11.95	106	17435	2.392	ug/l	100
70) Styrene	11.97	104	25898	2.167	ug/l	99
71) Bromoform	12.13	173	7884	2.582	ug/l #	97
73) Isopropylbenzene	12.25	105	46757	2.724	ug/l	97
74) N-amyl acetate	12.07	43	18956	2.459	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.51	83	17231	3.048	ug/l	95
76) 1,2,3-Trichloropropane	12.55	75	22360	4.301	ug/l #	100
77) Bromobenzene	12.53	156	12418	2.975	ug/l	98
78) n-propylbenzene	12.59	91	55334	2.767	ug/l	98
79) 2-Chlorotoluene	12.68	91	35115	2.829	ug/l	98
80) 1,3,5-Trimethylbenzene	12.74	105	39189	2.675	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	5396	2.780	ug/l	98
82) 4-Chlorotoluene	12.78	91	33328	2.616	ug/l	98
83) tert-Butylbenzene	13.00	119	33977	2.707	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	36970	2.542	ug/l	99
85) sec-Butylbenzene	13.17	105	42771	2.586	ug/l	98
86) p-Isopropyltoluene	13.29	119	36565	2.432	ug/l	97
87) 1,3-Dichlorobenzene	13.29	146	20900	2.715	ug/l	99
88) 1,4-Dichlorobenzene	13.37	146	20146	2.574	ug/l	85
89) n-Butylbenzene	13.62	91	33113	2.382	ug/l	96
90) Hexachloroethane	13.88	117	7593	2.823	ug/l	97
91) 1,2-Dichlorobenzene	13.66	146	20091	2.678	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.27	75	4190	3.172	ug/l	77

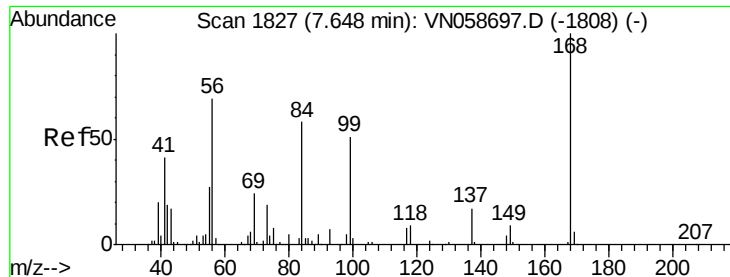
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Response via : Initial Calibration

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

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

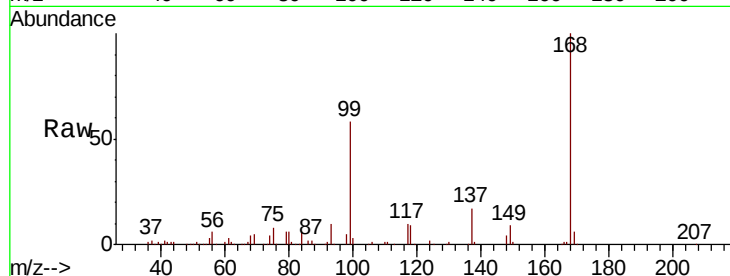
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:168 Resp: 377244

Ion Ratio Lower Upper

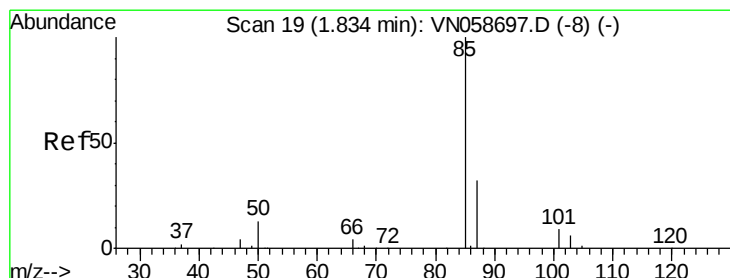
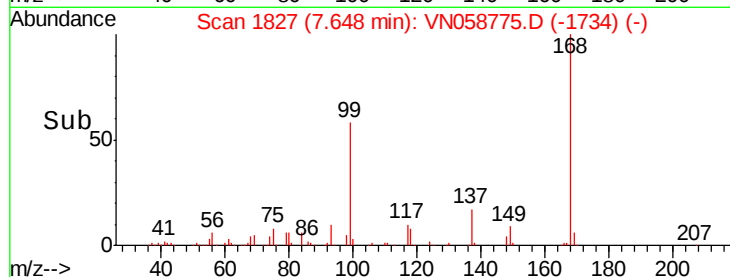
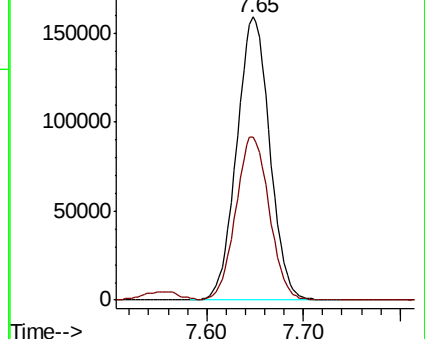
168 100

99 57.5 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 2.657 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN058775.D

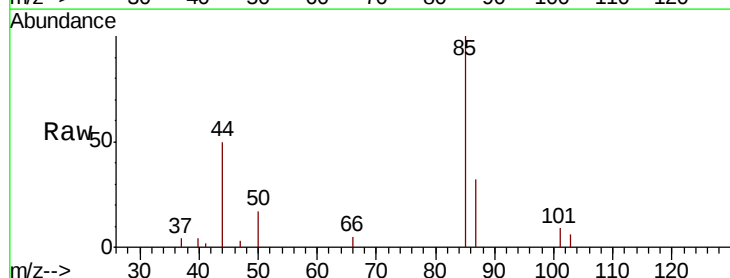
Acq: 15 Oct 2019 12:36

Tgt Ion: 85 Resp: 12483

Ion Ratio Lower Upper

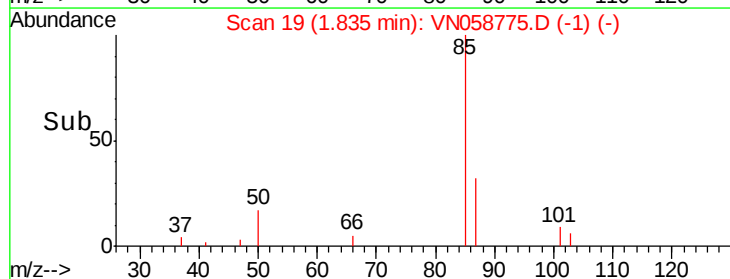
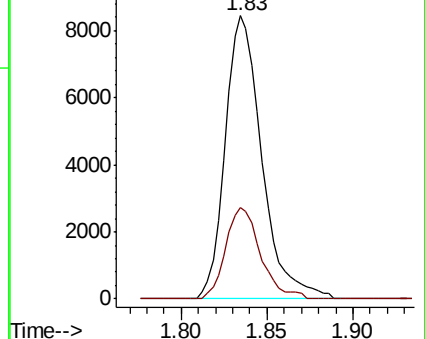
85 100

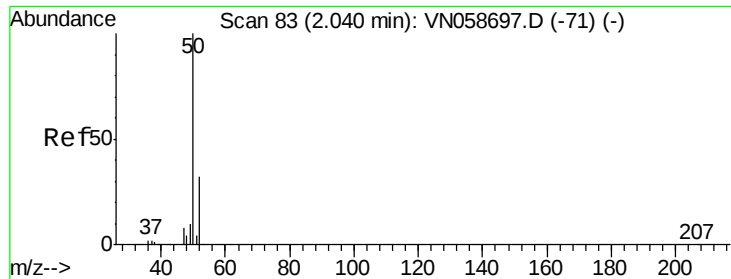
87 32.1 16.2 48.6



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 2.814 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

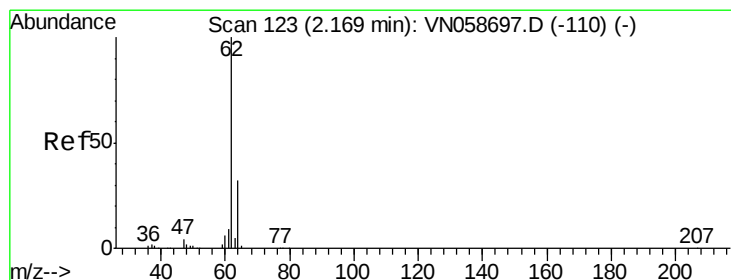
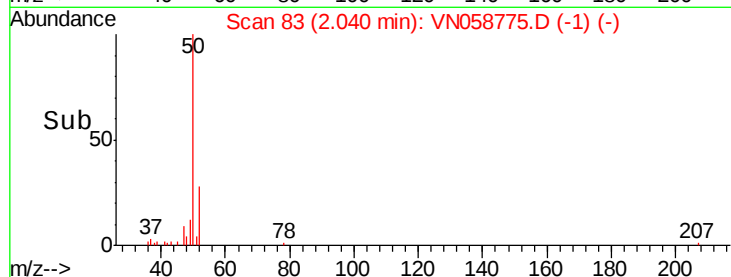
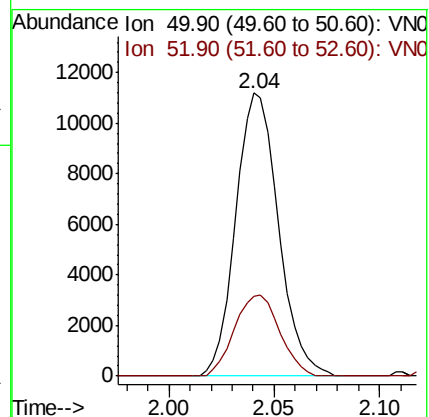
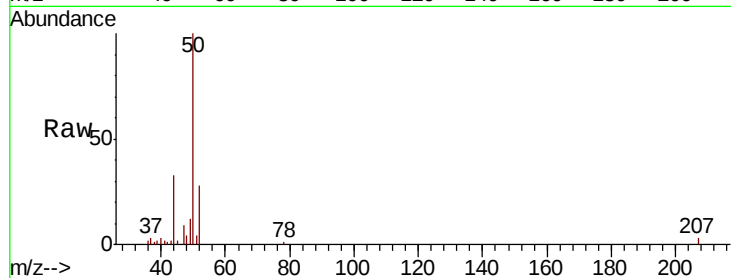
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 50 Resp: 15722

Ion Ratio Lower Upper

50 100

52 28.4 25.8 38.6



#4

Vinyl Chloride

Concen: 2.745 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058775.D

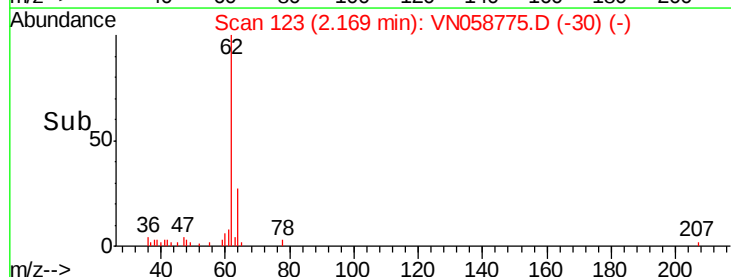
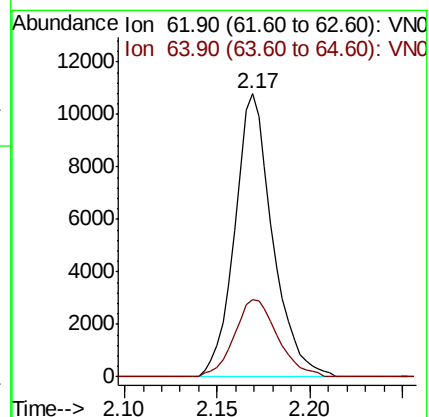
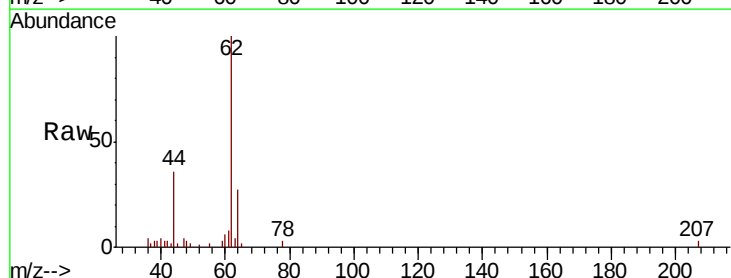
Acq: 15 Oct 2019 12:36

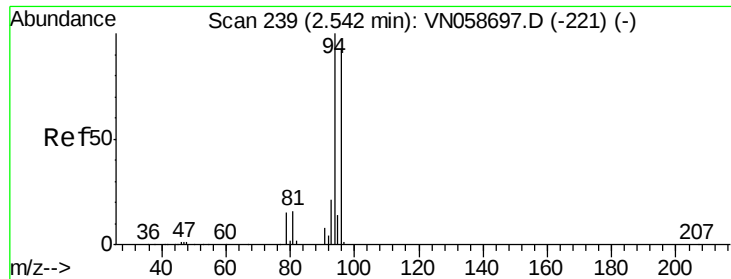
Tgt Ion: 62 Resp: 15275

Ion Ratio Lower Upper

62 100

64 27.4 25.3 37.9

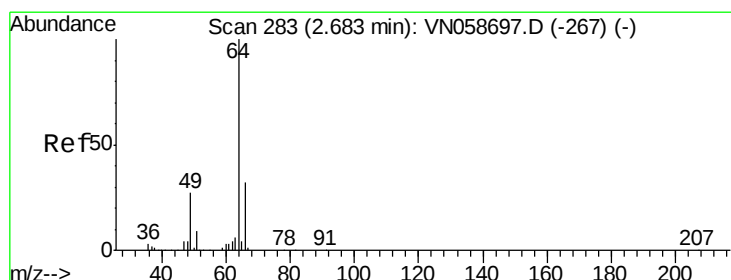
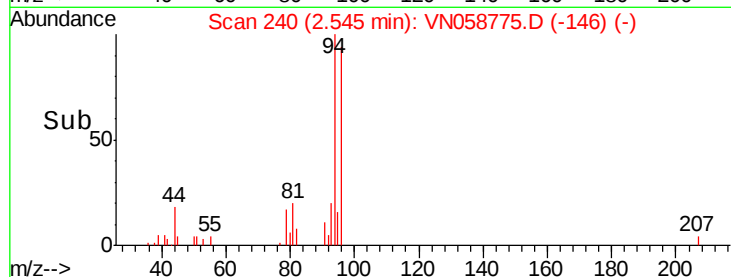
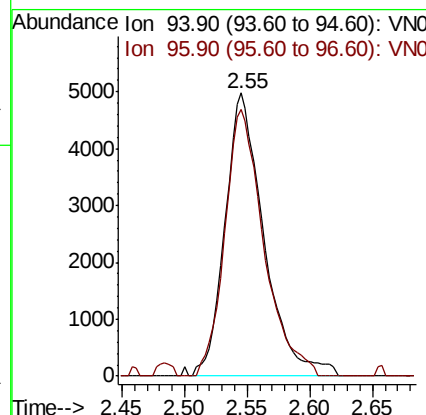
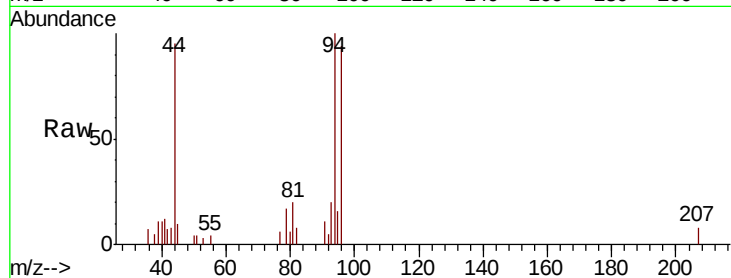




#5
Bromomethane
Concen: 3.169 ug/l
RT: 2.55 min Scan# 240
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

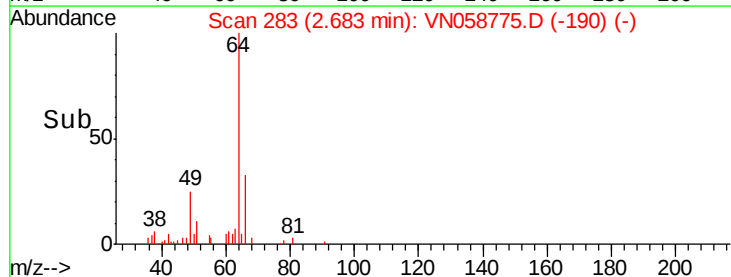
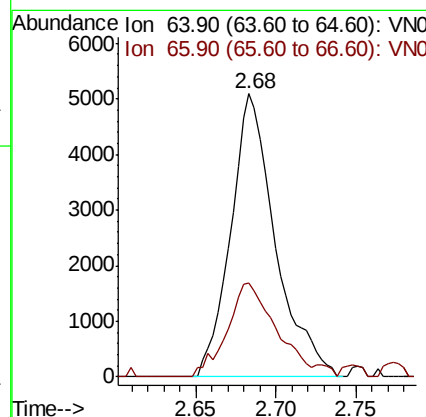
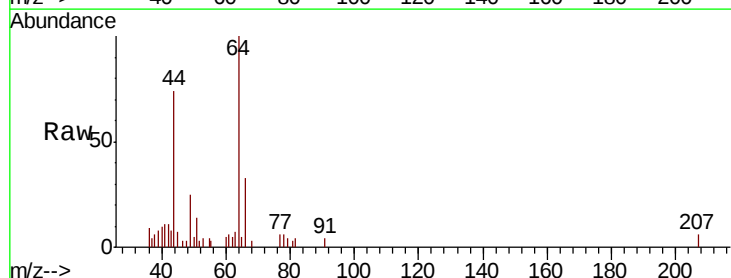
Instrument :
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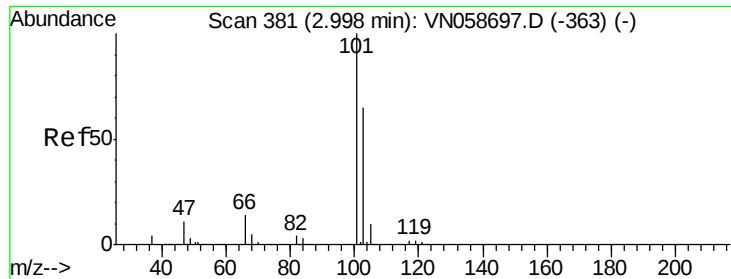
Tot Ion: 94 Resp: 10726
Ion Ratio Lower Upper
94 100
96 94.0 74.5 111.7



#6
Chloroethane
Concen: 2.821 ug/l
RT: 2.68 min Scan# 283
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

Tgt Ion: 64 Resp: 9682
Ion Ratio Lower Upper
64 100
66 33.0 25.4 38.2



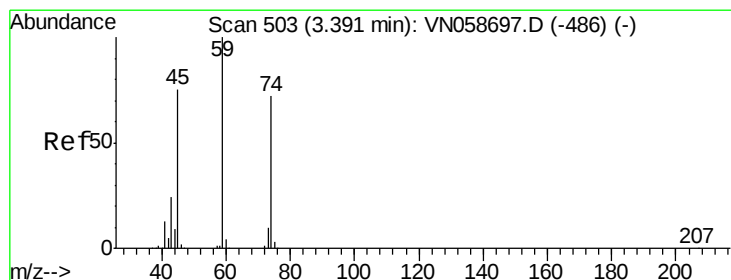
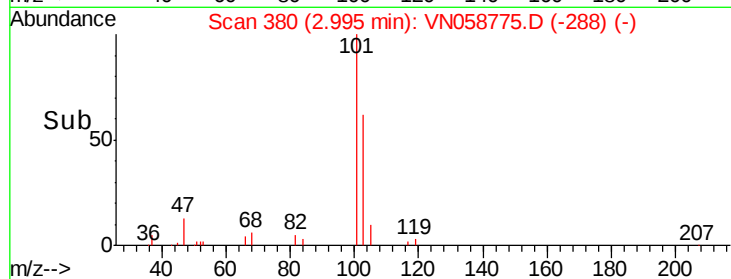
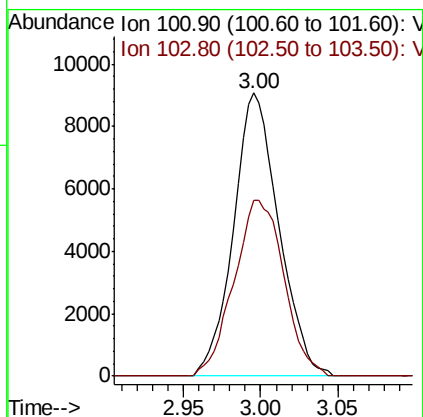
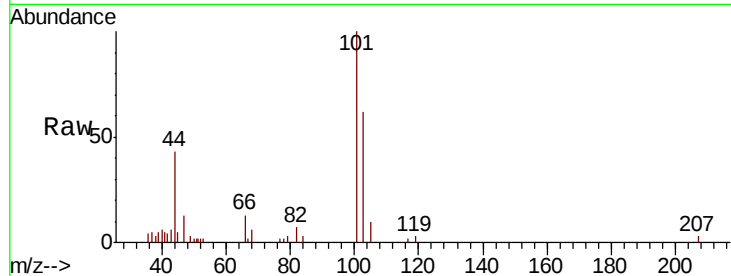


#7

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

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

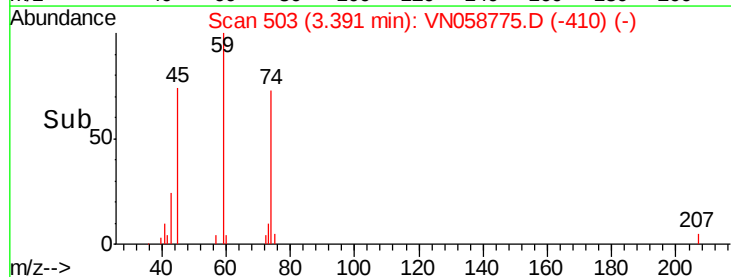
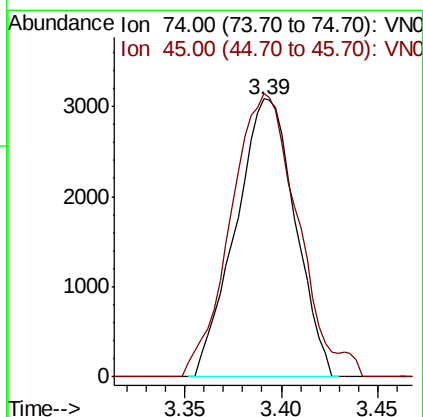
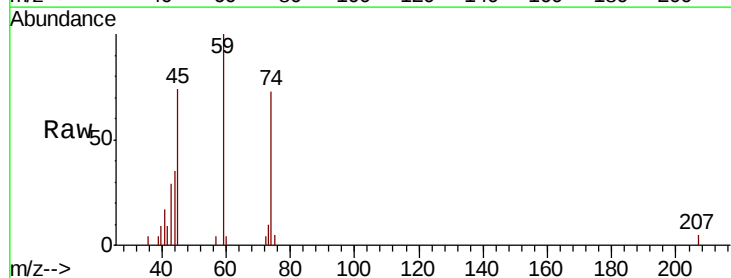
Tot Ion:101 Resp: 18459
 Ion Ratio Lower Upper
 101 100
 103 62.3 51.8 77.6

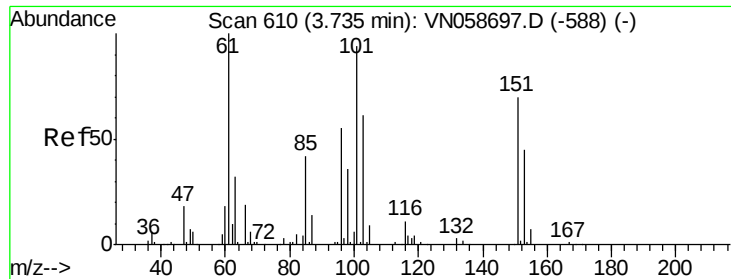


#8

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

Tgt Ion: 74 Resp: 6597
 Ion Ratio Lower Upper
 74 100
 45 114.8 51.3 154.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.954 ug/l

RT: 3.74 min Scan# 612

Delta R.T. 0.01 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

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

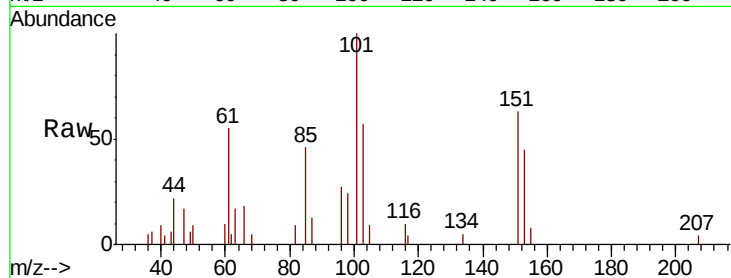
Tot Ion:101 Resp: 11216

Ion Ratio Lower Upper

101 100

85 44.4 37.0 55.6

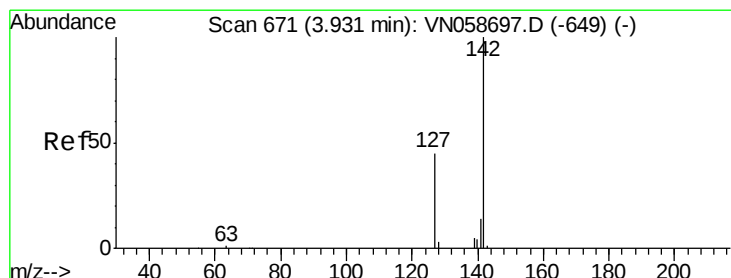
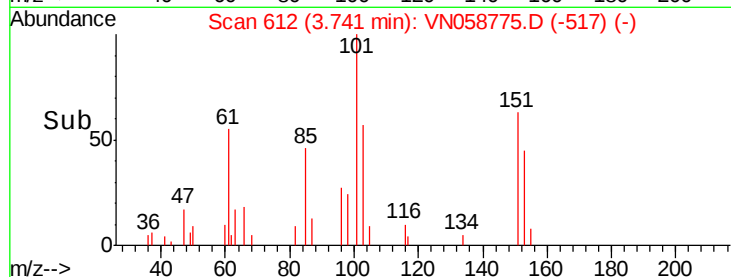
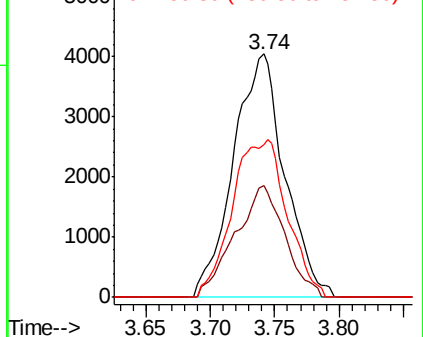
151 69.2 61.8 92.6



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: 2.560 ug/l

RT: 3.93 min Scan# 671

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

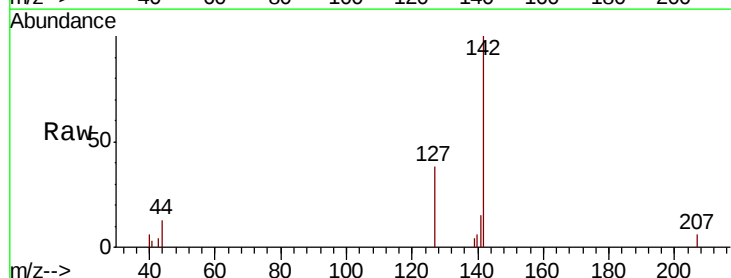
Tgt Ion:142 Resp: 13263

Ion Ratio Lower Upper

142 100

127 24.3 36.4 54.6#

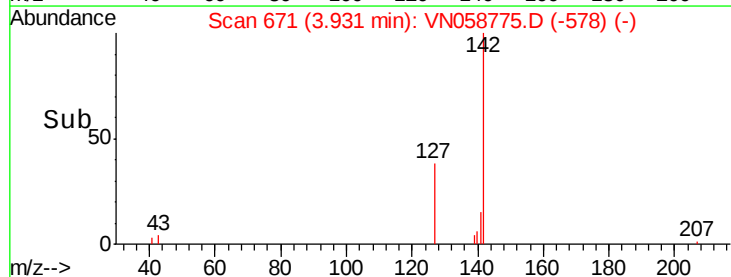
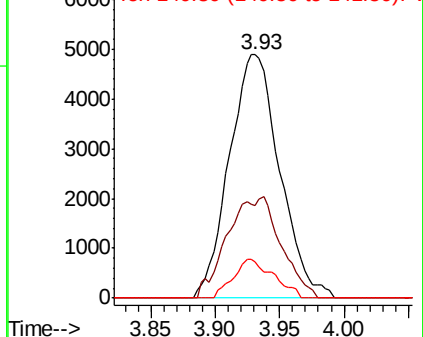
141 12.8 11.1 16.7

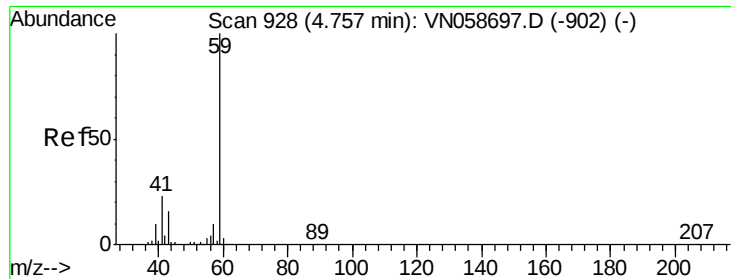


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

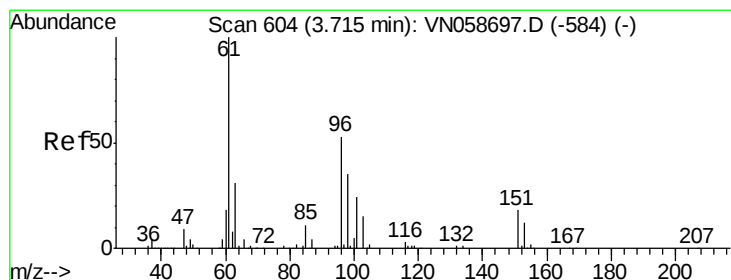
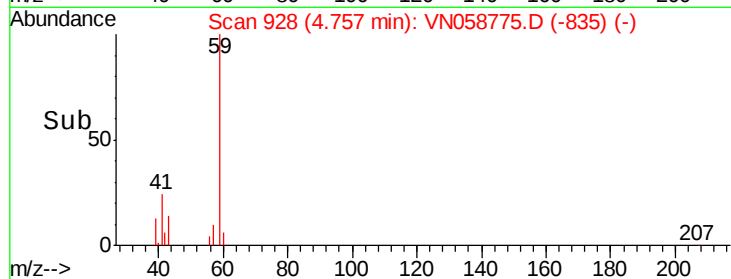
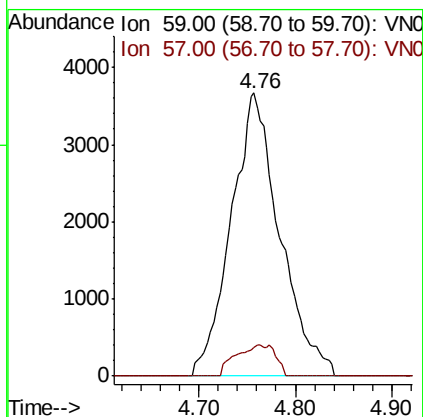
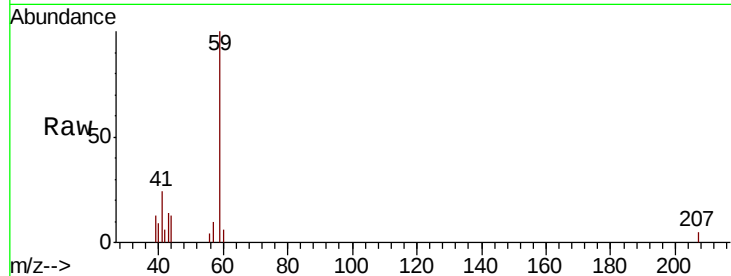




#11
Tert butyl alcohol
Concen: 14.999 ug/l
RT: 4.76 min Scan# 928
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

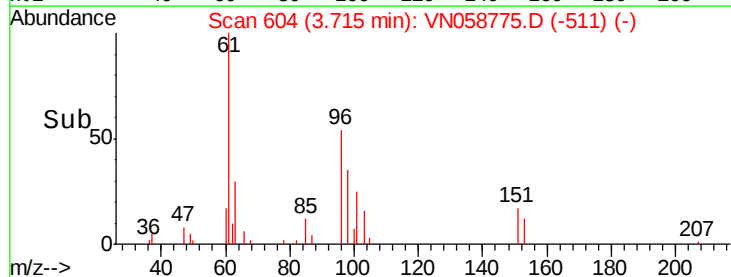
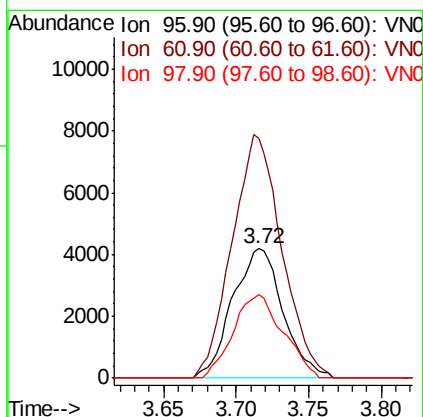
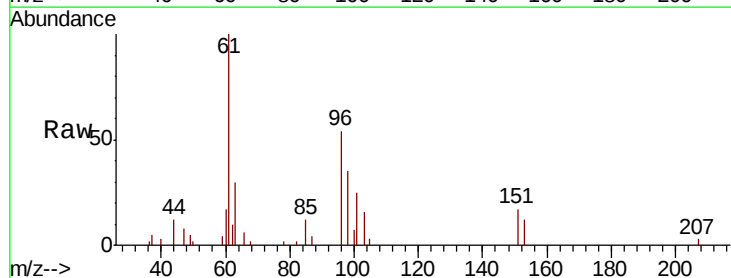
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

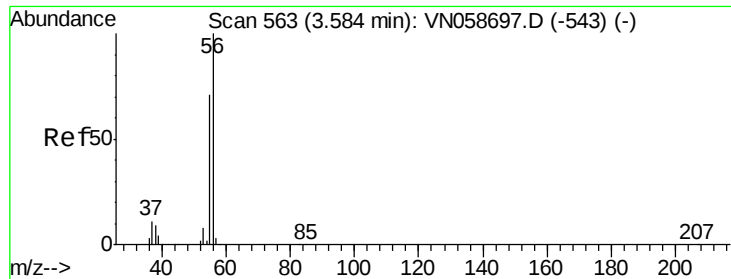
Tot Ion: 59 Resp: 12829
Ion Ratio Lower Upper
59 100
57 8.9 8.4 12.6



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

Tgt Ion: 96 Resp: 10150
Ion Ratio Lower Upper
96 100
61 185.2 151.3 226.9
98 64.5 52.6 78.8





#13

Acrolein

Concen: 11.572 ug/l

RT: 3.59 min Scan# 564

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

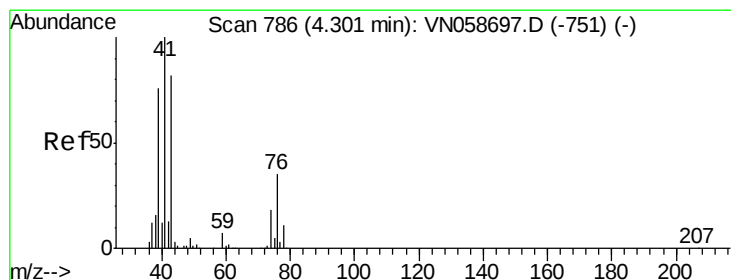
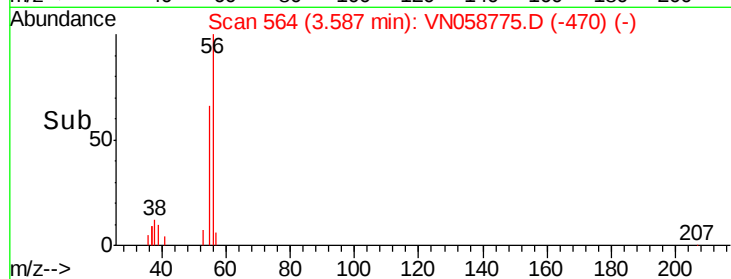
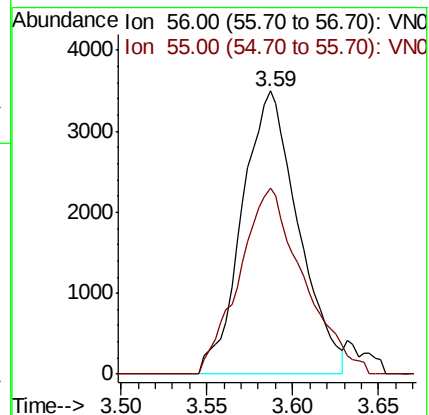
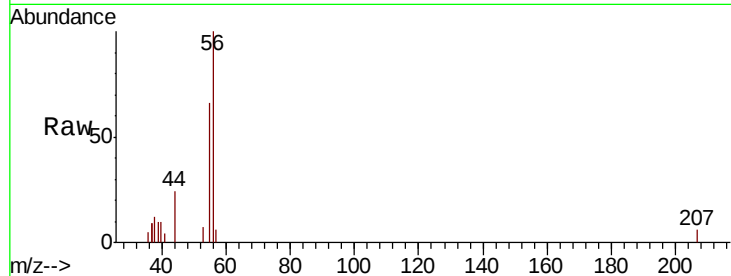
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 56 Resp: 7960

Ion Ratio Lower Upper

56 100

55 74.9 56.7 85.1



#14

Allyl chloride

Concen: 2.874 ug/l

RT: 4.30 min Scan# 787

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

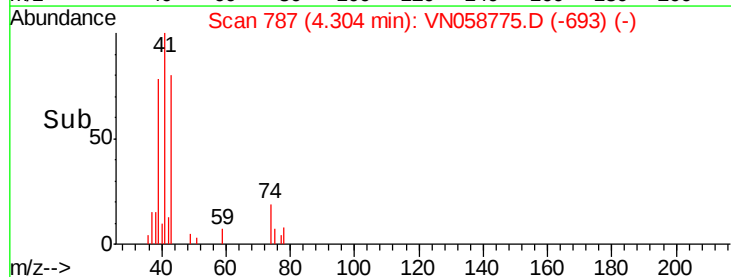
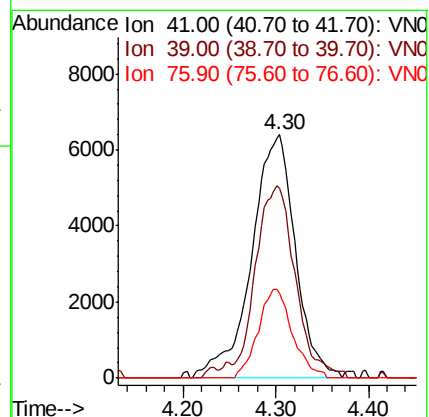
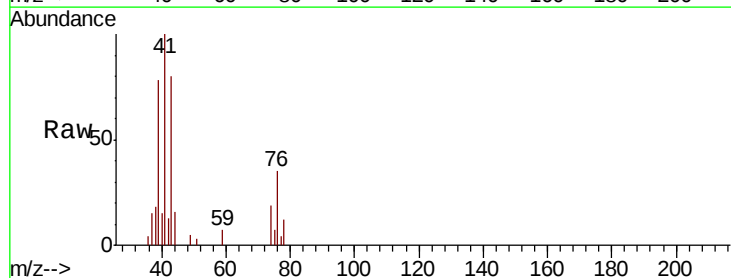
Tgt Ion: 41 Resp: 21009

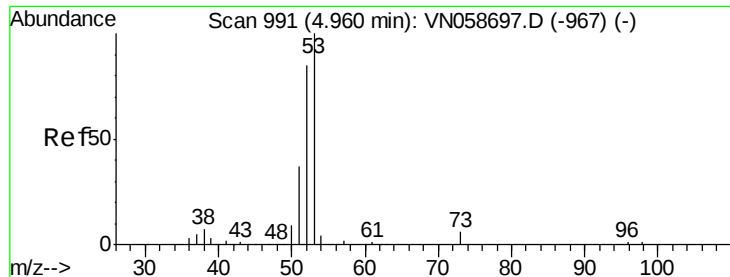
Ion Ratio Lower Upper

41 100

39 71.4 57.2 85.8

76 28.6 25.0 37.6





#15

Acrylonitrile

Concen: 13.456 ug/l

RT: 4.96 min Scan# 992

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

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

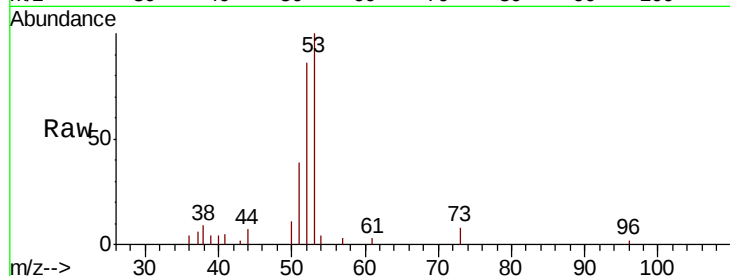
Tot Ion: 53 Resp: 29024

Ion Ratio Lower Upper

53 100

52 81.3 66.2 99.2

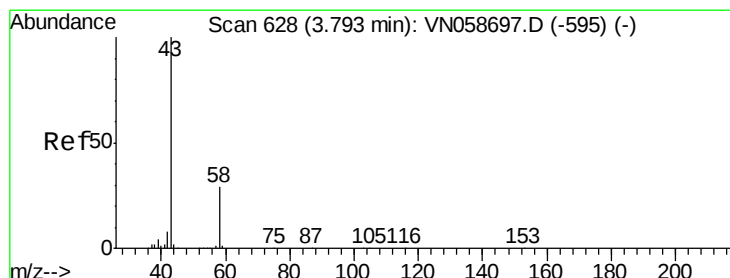
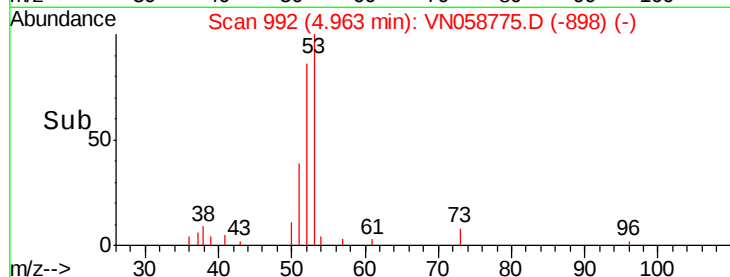
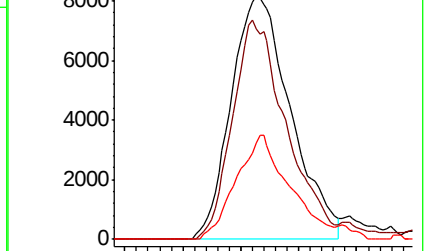
51 38.3 29.4 44.2



Abundance Ion 53.00 (52.70 to 53.70): VN058697.D (-967) (-)

Ion 52.00 (51.70 to 52.70): VN058697.D (-967) (-)

Ion 51.00 (50.70 to 51.70): VN058697.D (-967) (-)



#16

Acetone

Concen: 13.951 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN058775.D

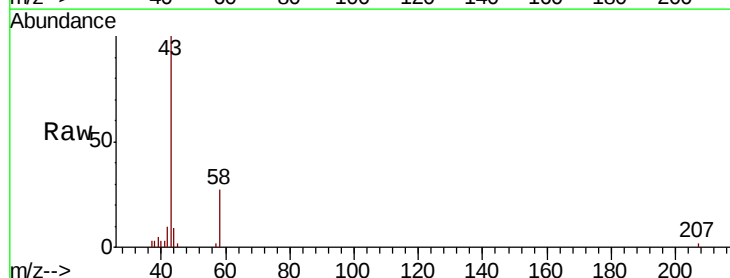
Acq: 15 Oct 2019 12:36

Tgt Ion: 43 Resp: 30503

Ion Ratio Lower Upper

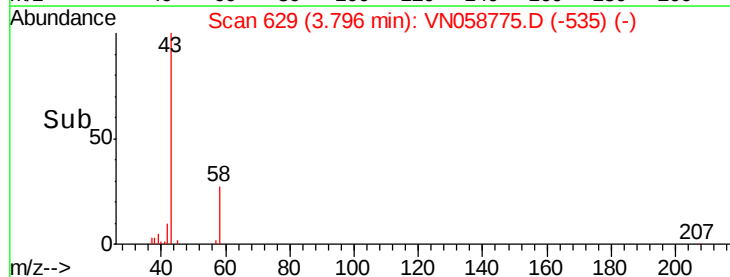
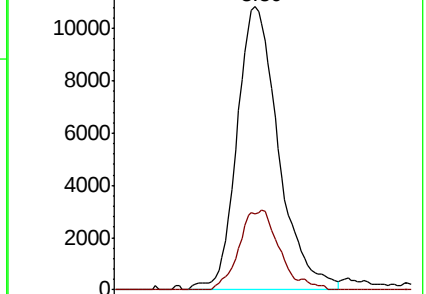
43 100

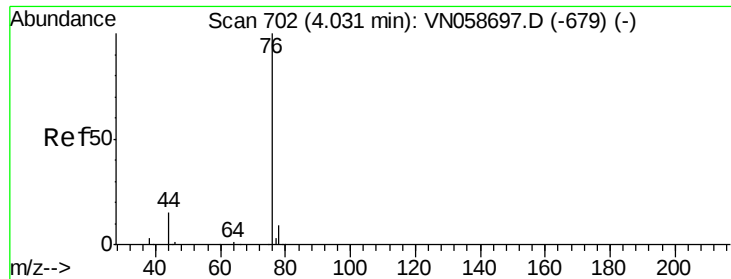
58 26.9 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VN058697.D (-595) (-)

Ion 58.00 (57.70 to 58.70): VN058697.D (-595) (-)

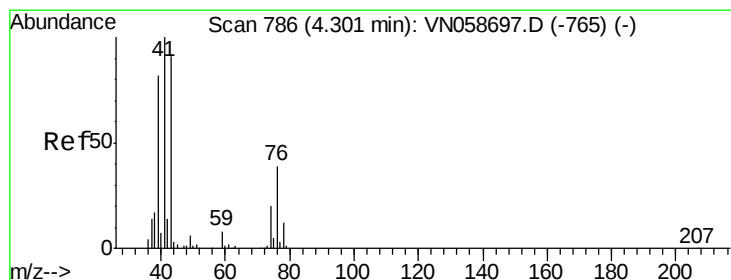
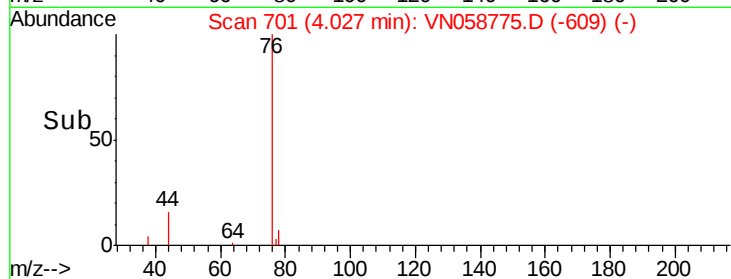
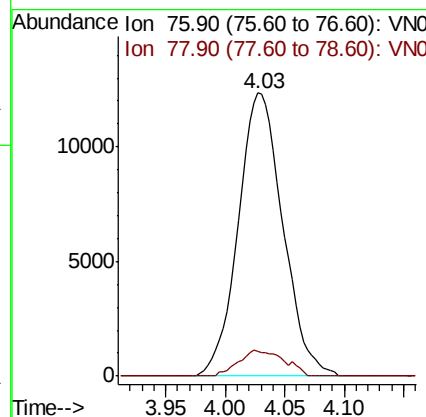
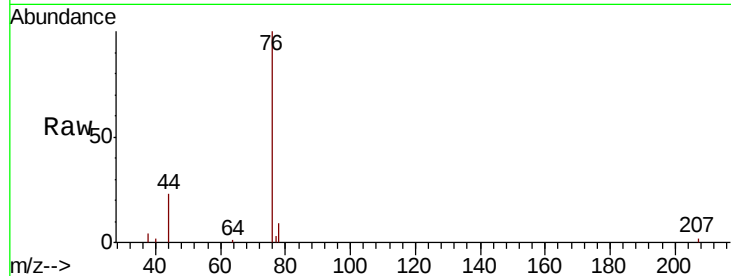




#17
Carbon Disulfide
Concen: 2.765 ug/l
RT: 4.03 min Scan# 701
Delta R.T. -0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

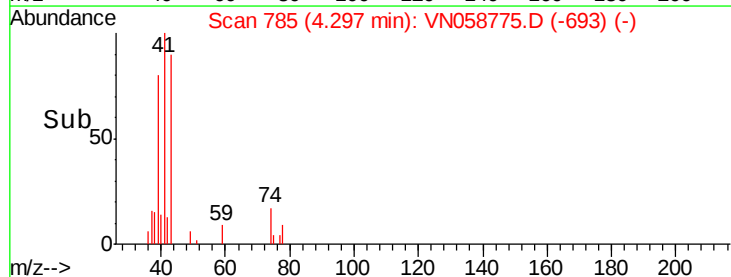
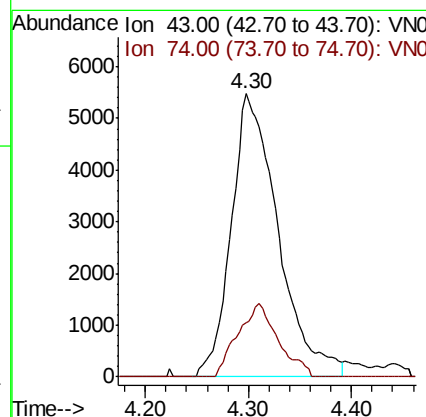
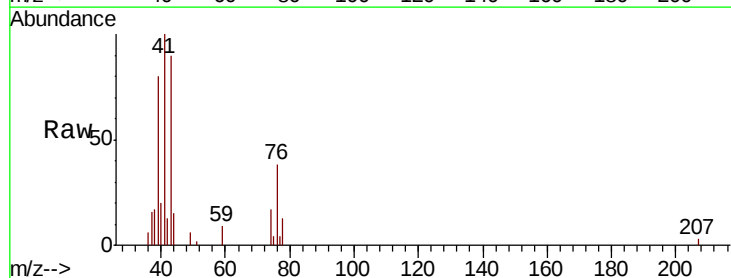
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

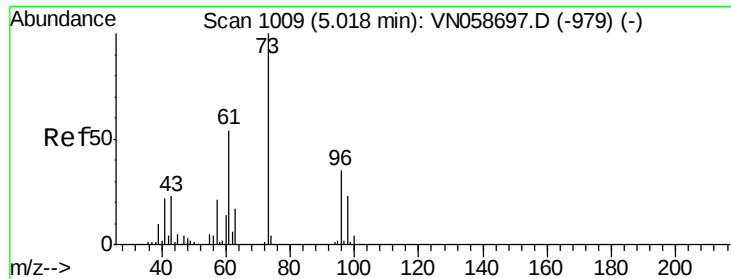
Tot Ion: 76 Resp: 32019
Ion Ratio Lower Upper
76 100
78 8.6 7.1 10.7



#18
Methyl Acetate
Concen: 3.117 ug/l
RT: 4.30 min Scan# 785
Delta R.T. -0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

Tgt Ion: 43 Resp: 17287
Ion Ratio Lower Upper
43 100
74 22.3 17.2 25.8

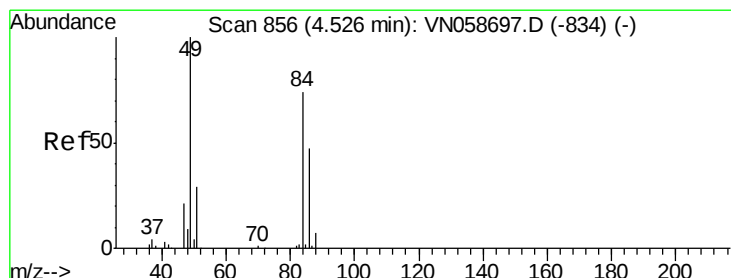
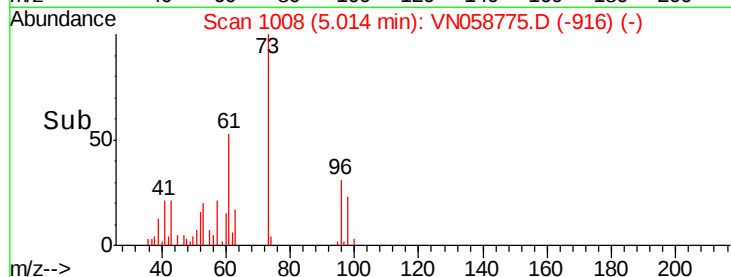
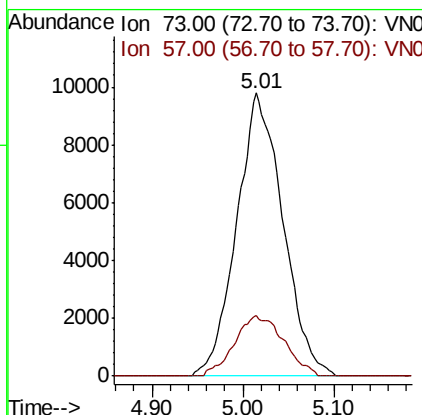
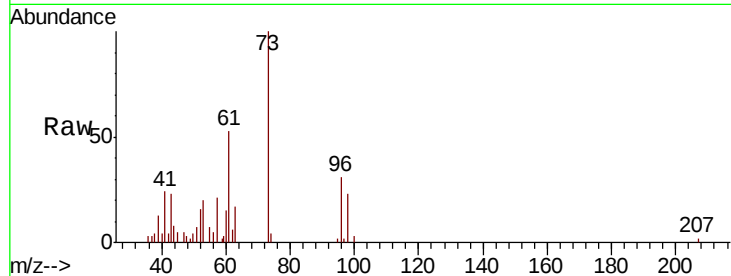




#19
Methyl tert-butyl Ether
Concen: 2.669 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. -0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

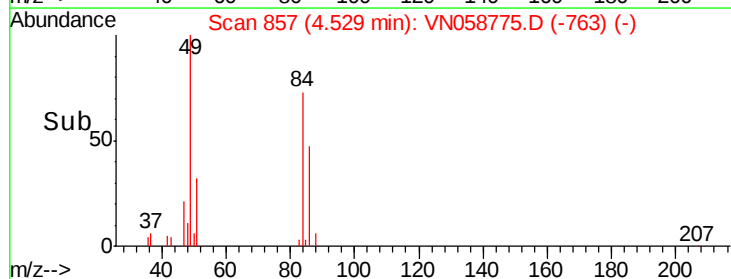
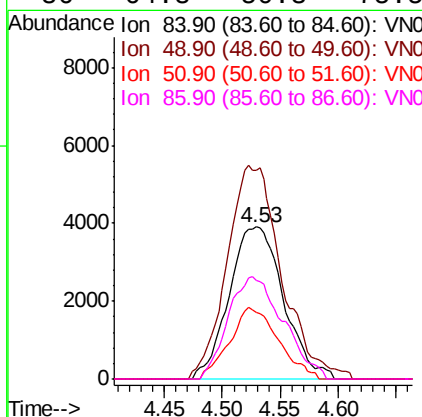
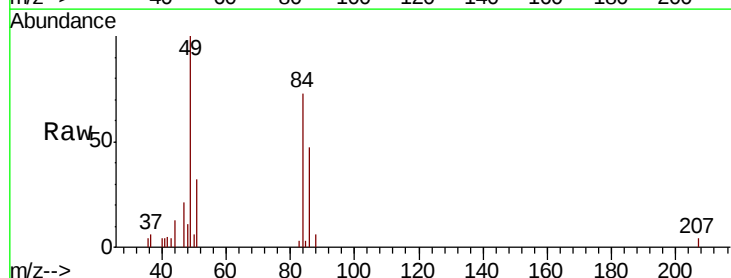
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

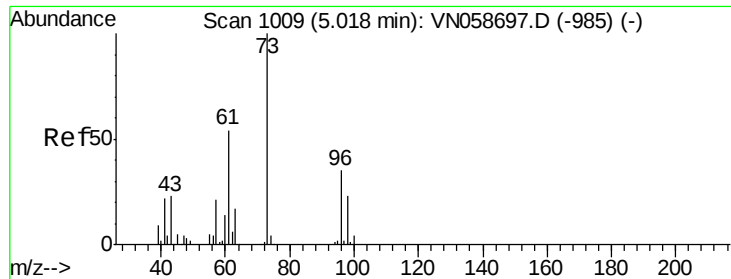
Tot Ion: 73 Resp: 34533
Ion Ratio Lower Upper
73 100
57 21.2 17.0 25.6



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

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

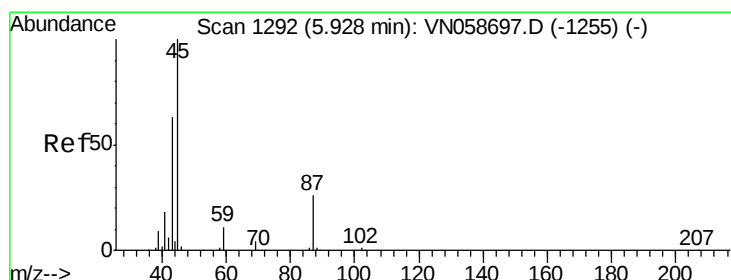
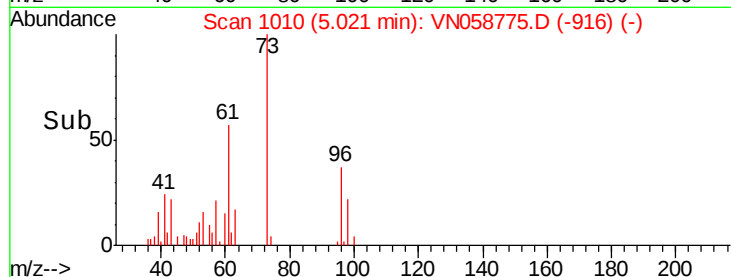
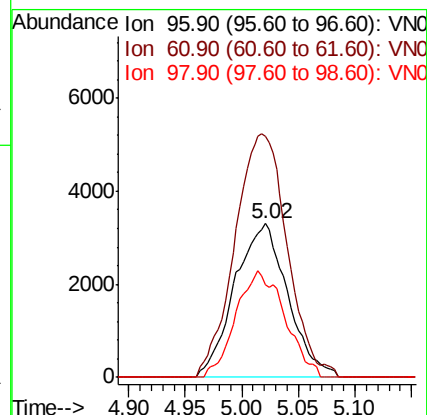
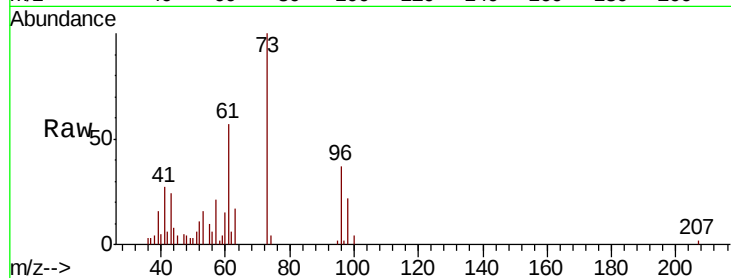




#21
trans-1,2-Dichloroethene
Concen: 2.656 ug/l
RT: 5.02 min Scan# 1010
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

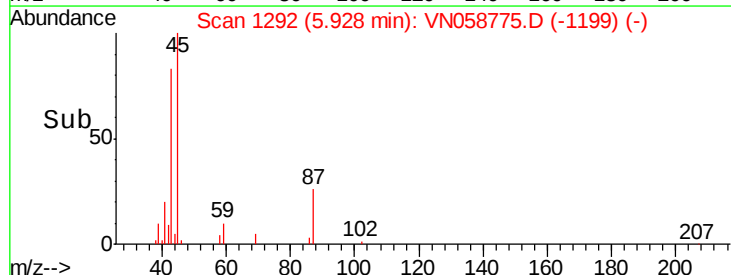
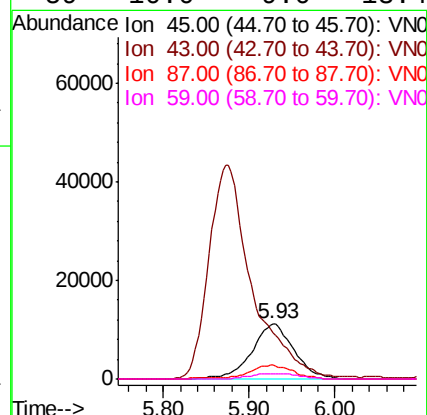
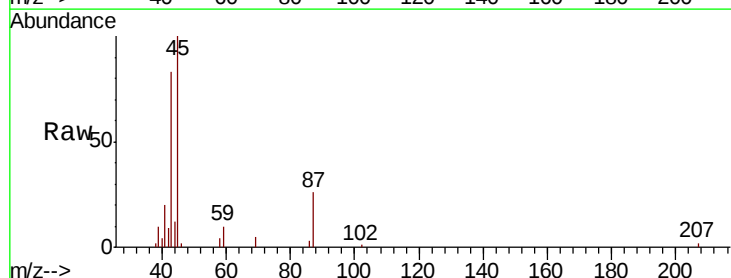
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

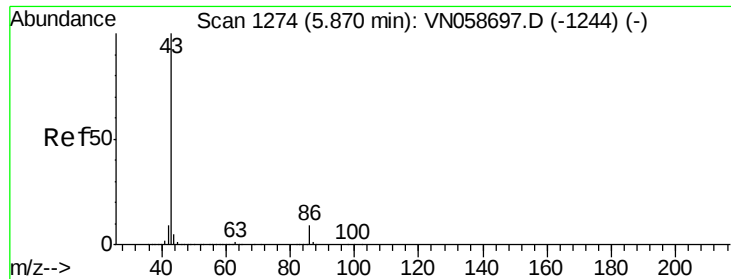
Tot Ion: 96 Resp: 10765
Ion Ratio Lower Upper
96 100
61 156.3 123.6 185.4
98 60.4 52.1 78.1



#22
Diisopropyl ether
Concen: 2.664 ug/l
RT: 5.93 min Scan# 1292
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

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





#23

Vinyl Acetate

Concen: 13.234 ug/l

RT: 5.87 min Scan# 1275

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

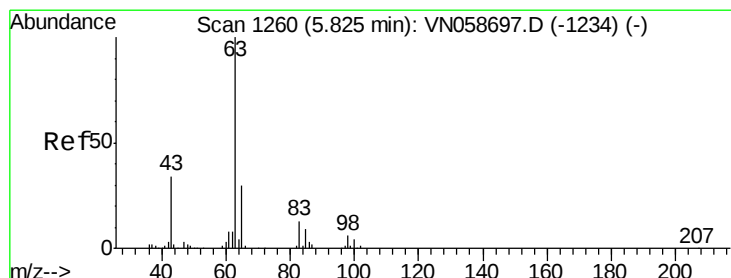
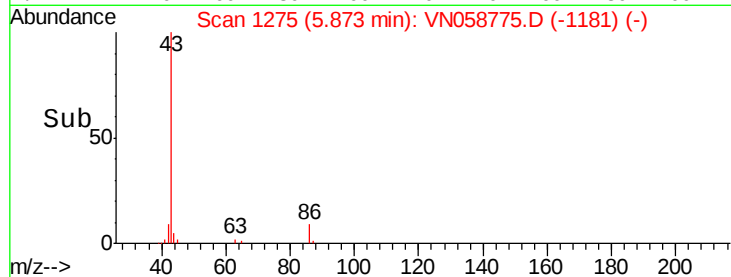
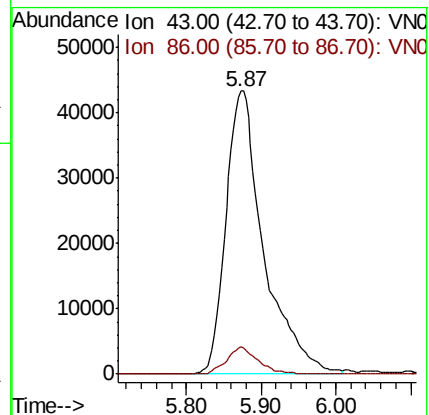
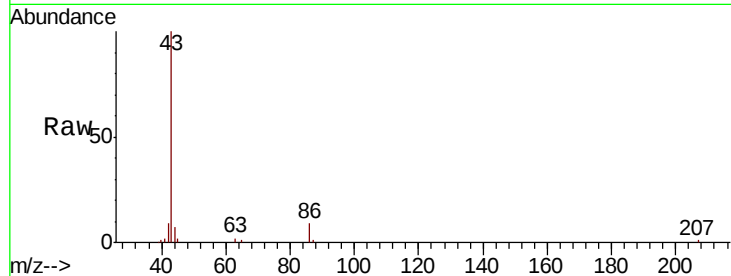
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 43 Resp: 151803

Ion Ratio Lower Upper

43 100

86 9.5 7.4 11.0



#24

1,1-Dichloroethane

Concen: 2.758 ug/l

RT: 5.83 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

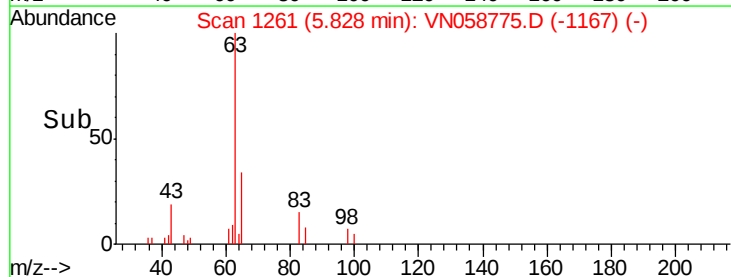
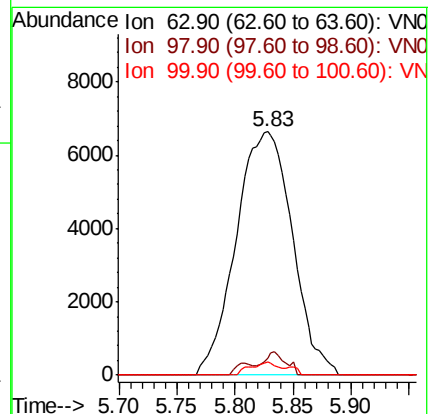
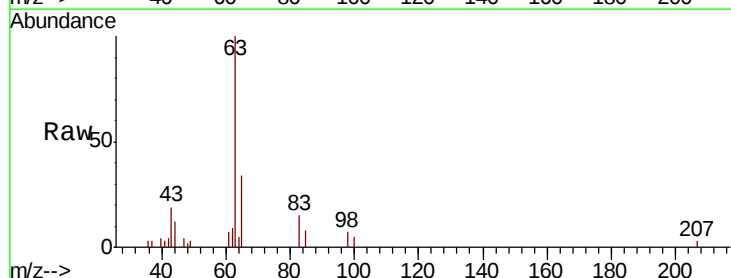
Tgt Ion: 63 Resp: 22330

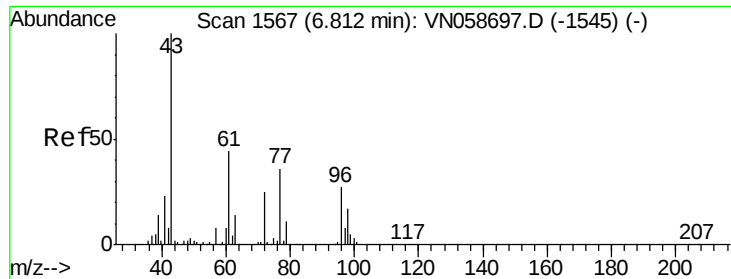
Ion Ratio Lower Upper

63 100

98 6.9 2.9 8.6

100 5.2 1.8 5.5





#25

2-Butanone

Concen: 13.314 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. 0.01 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

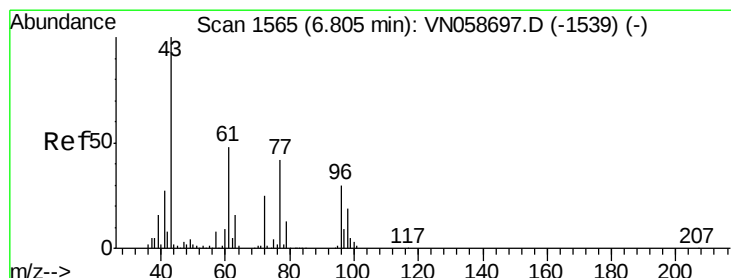
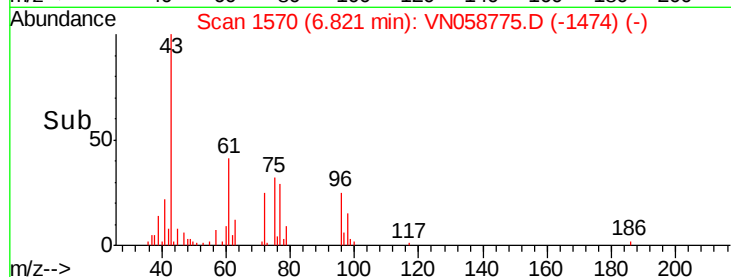
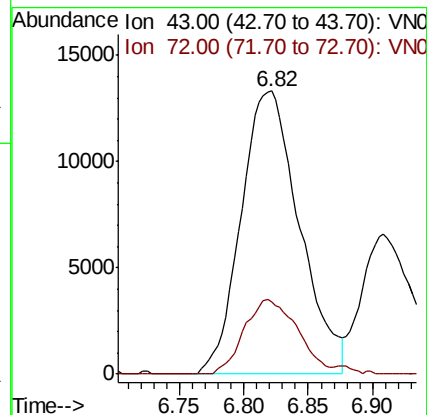
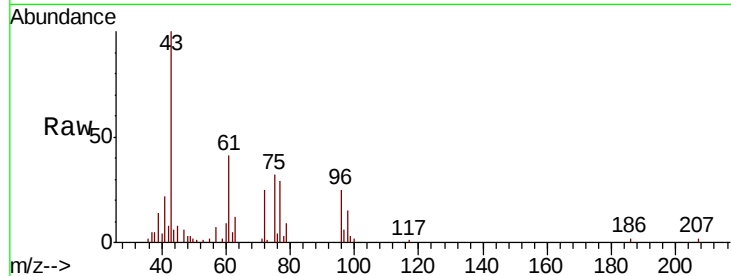
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 43 Resp: 42076

Ion Ratio Lower Upper

43 100

72 25.3 20.2 30.2



#26

2,2-Dichloropropane

Concen: 2.741 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VN058775.D

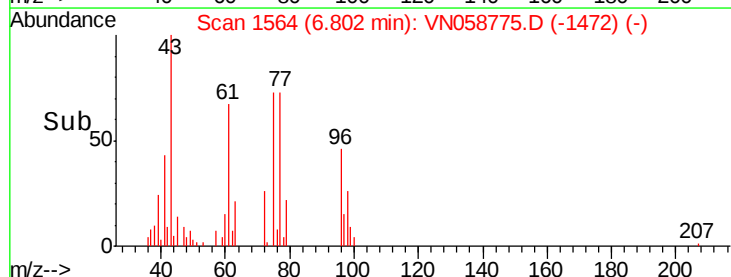
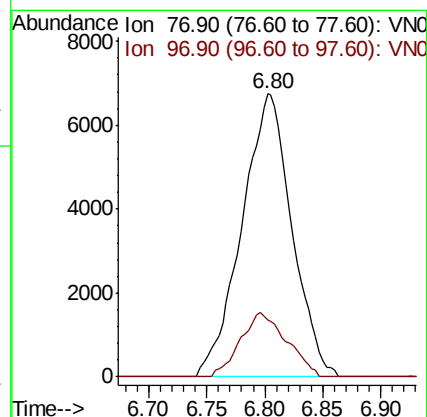
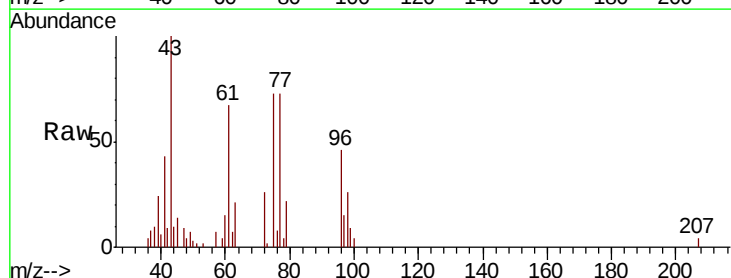
Acq: 15 Oct 2019 12:36

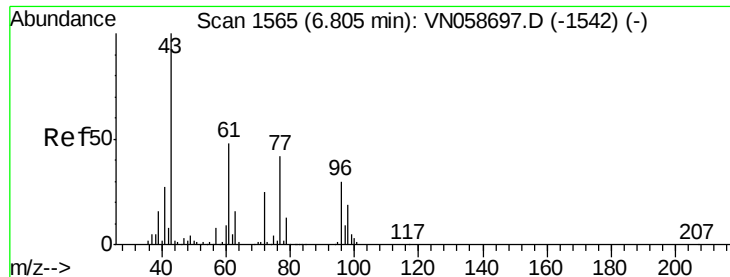
Tgt Ion: 77 Resp: 20258

Ion Ratio Lower Upper

77 100

97 20.9 10.7 31.9





#27

cis-1,2-Dichloroethene

Concen: 2.684 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

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

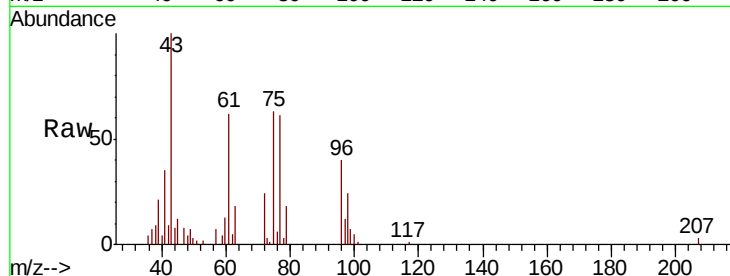
Tot Ion: 96 Resp: 12685

Ion Ratio Lower Upper

96 100

61 163.3 0.0 324.8

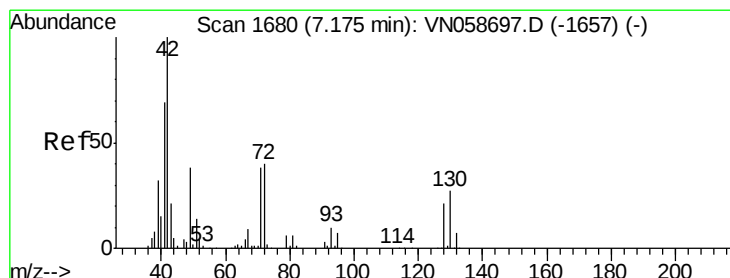
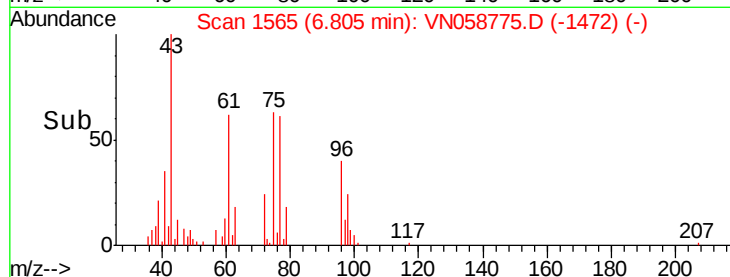
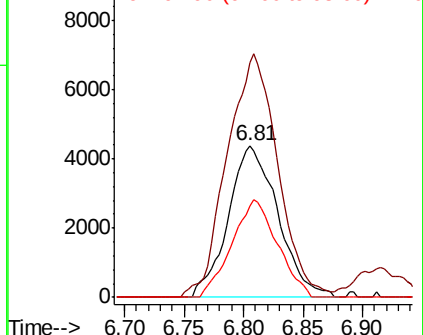
98 58.8 0.0 129.2



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: 2.774 ug/l

RT: 7.17 min Scan# 1679

Delta R.T. -0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

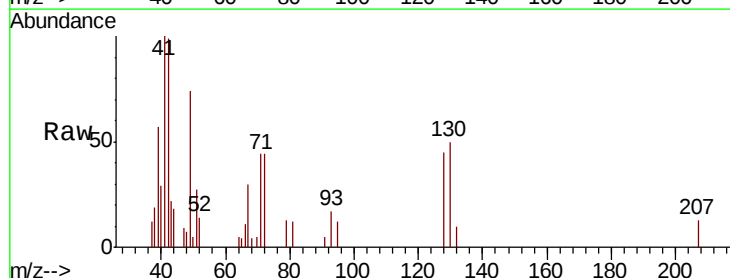
Tgt Ion: 49 Resp: 7812

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

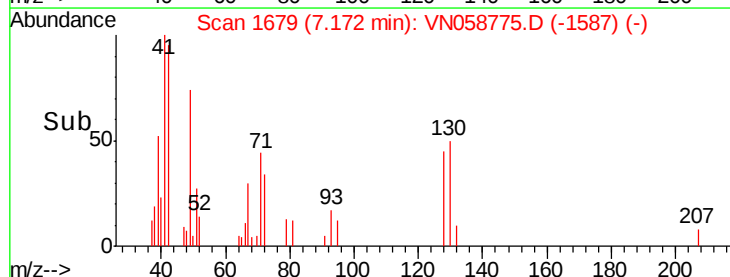
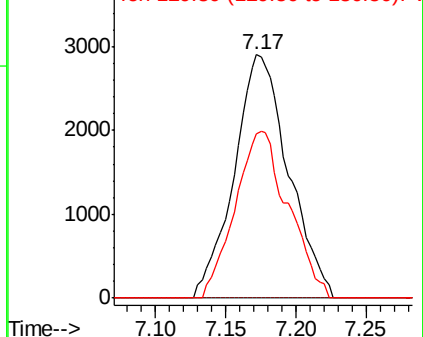
130 66.9 55.0 82.4

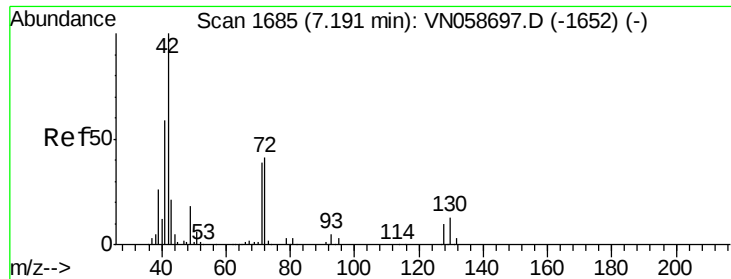


Abundance Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

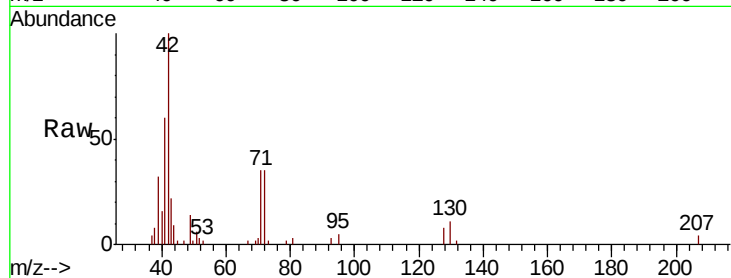




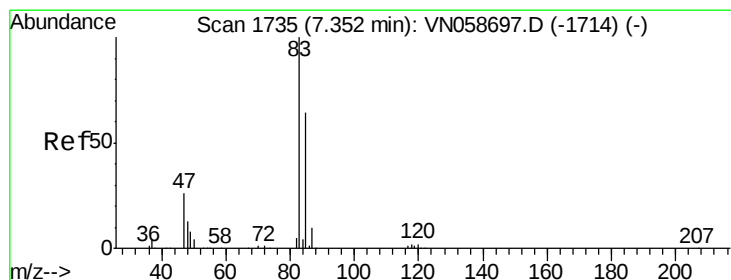
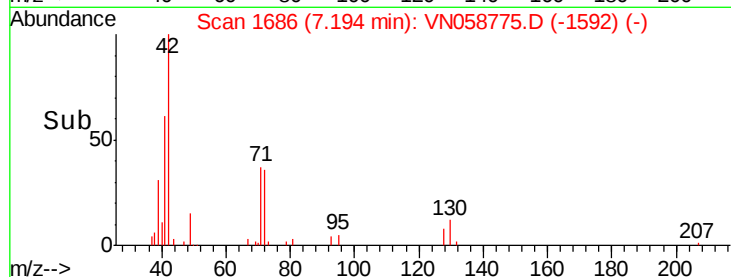
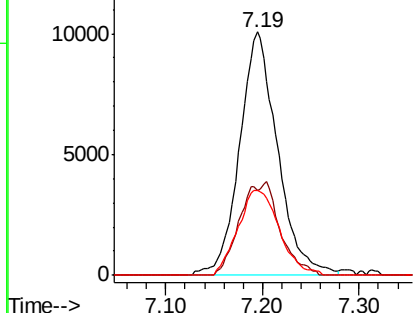
#29
Tetrahydrofuran
Concen: 13.463 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

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

Tot Ion: 42 Resp: 27495
Ion Ratio Lower Upper
42 100
72 19.3 32.8 49.2#
71 38.0 31.1 46.7

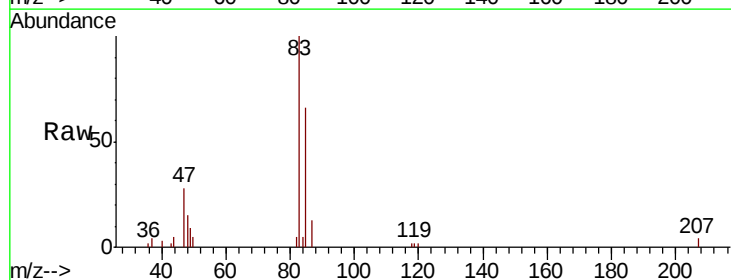


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

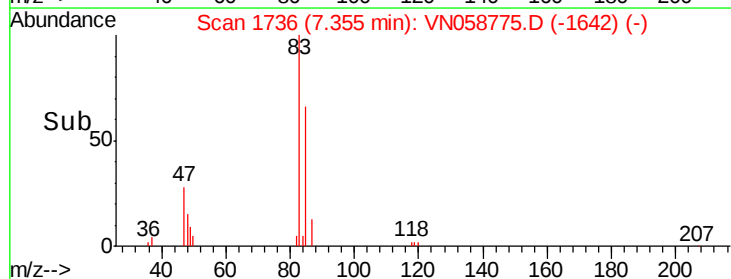
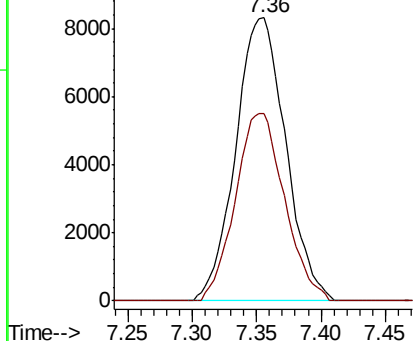


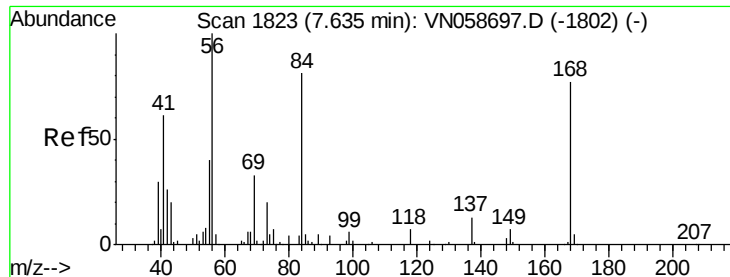
#30
Chloroform
Concen: 2.762 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

Tgt Ion: 83 Resp: 22469
Ion Ratio Lower Upper
83 100
85 66.4 51.0 76.6



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

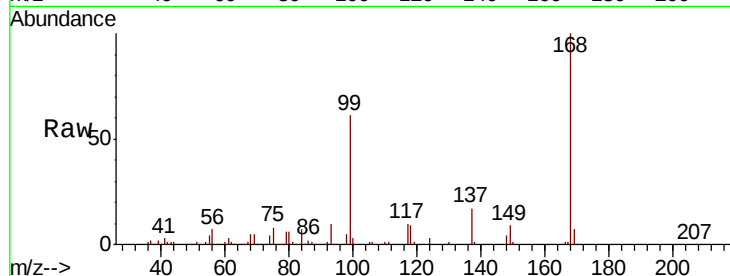




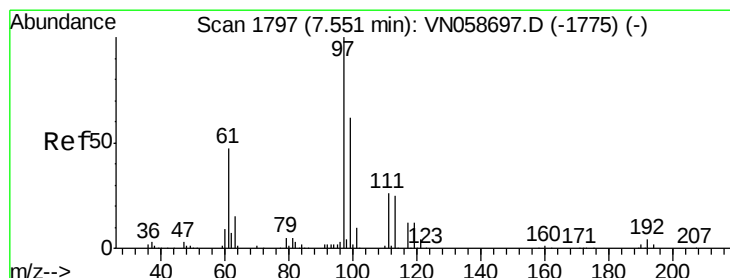
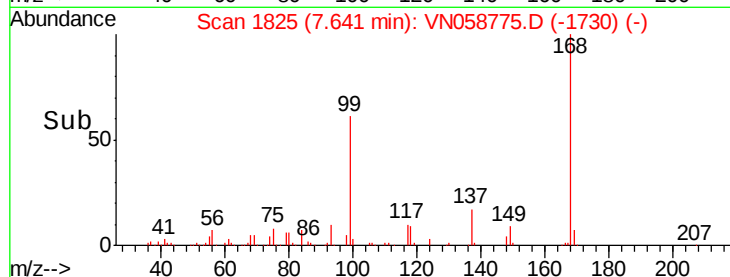
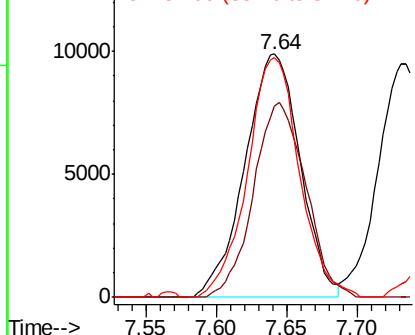
#31
Cyclohexane
Concen: 3.492 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

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

Tot Ion: 56 Resp: 27049
Ion Ratio Lower Upper
56 100
69 78.7 26.2 39.4#
84 98.7 64.9 97.3#

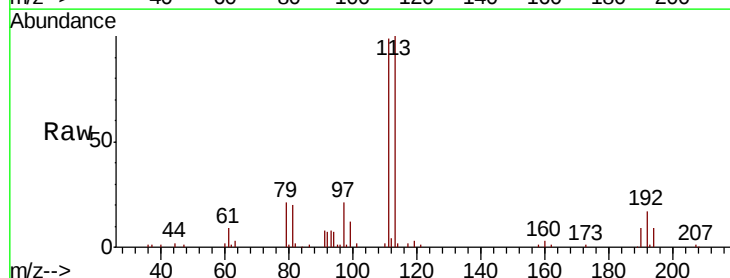


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

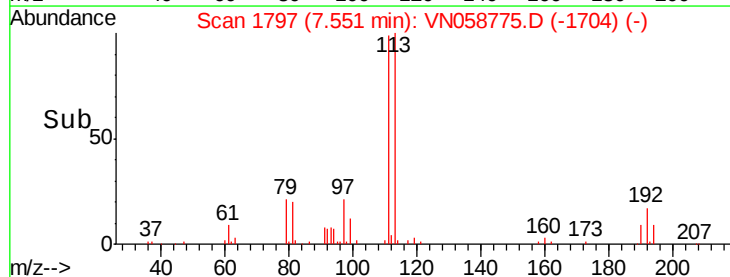
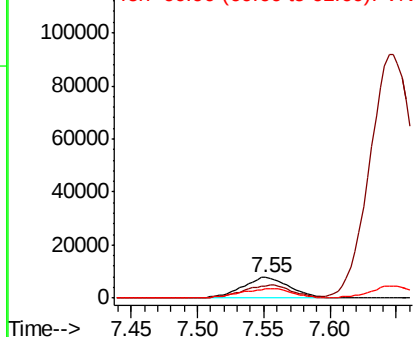


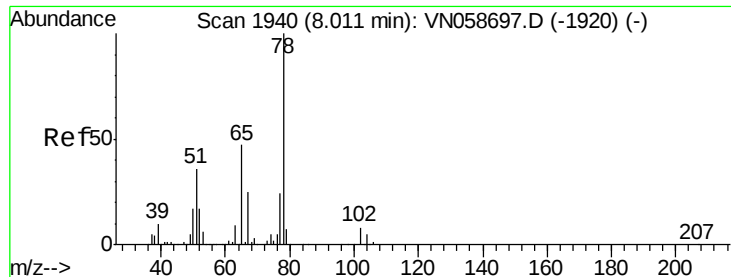
#32
1,1,1-Trichloroethane
Concen: 2.806 ug/l
RT: 7.55 min Scan# 1797
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

Tgt Ion: 97 Resp: 19467
Ion Ratio Lower Upper
97 100
99 65.1 50.8 76.2
61 49.7 38.1 57.1



Abundance Ion 96.90 (96.60 to 97.60): VNO
Ion 98.90 (98.60 to 99.60): VNO
Ion 60.90 (60.60 to 61.60): VNO





#33

1,2-Dichloroethane-d4

Concen: 53.820 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. -0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

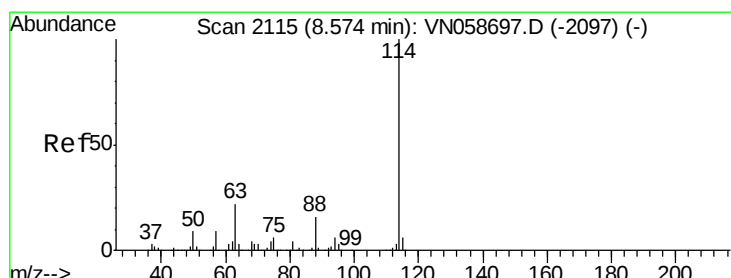
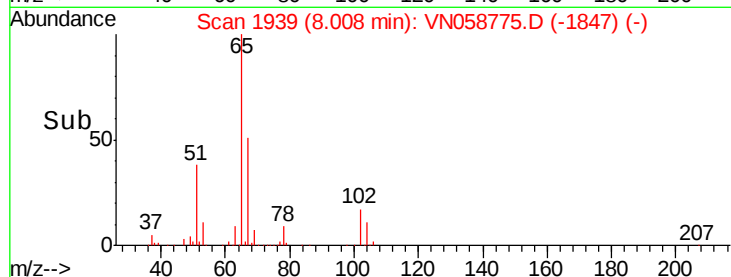
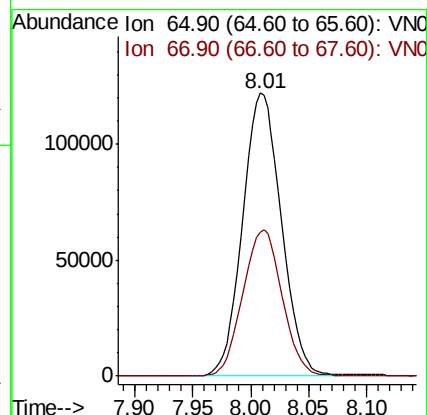
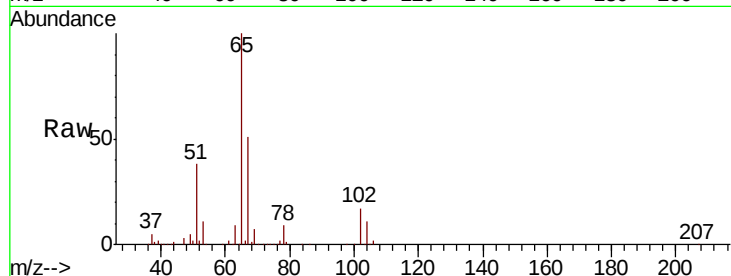
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 65 Resp: 284245

Ion Ratio Lower Upper

65 100

67 52.6 0.0 103.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2114

Delta R.T. -0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

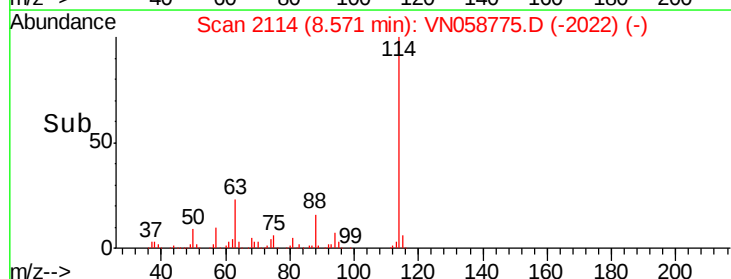
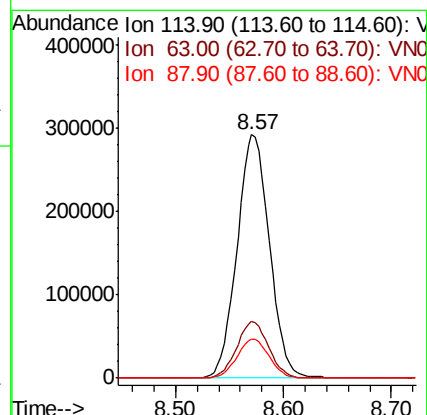
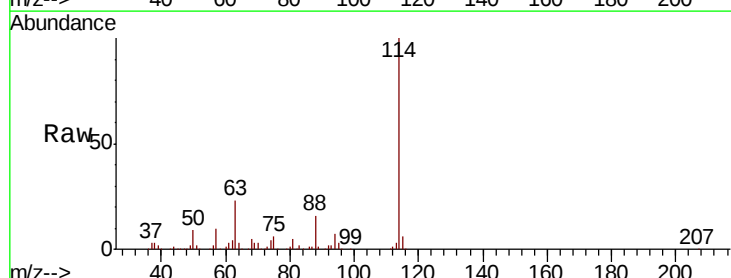
Tgt Ion: 114 Resp: 611395

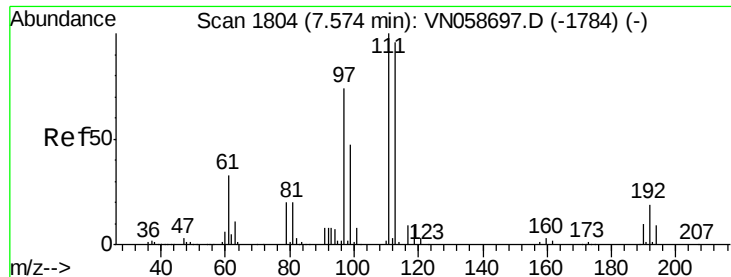
Ion Ratio Lower Upper

114 100

63 23.2 0.0 43.8

88 15.9 0.0 32.0

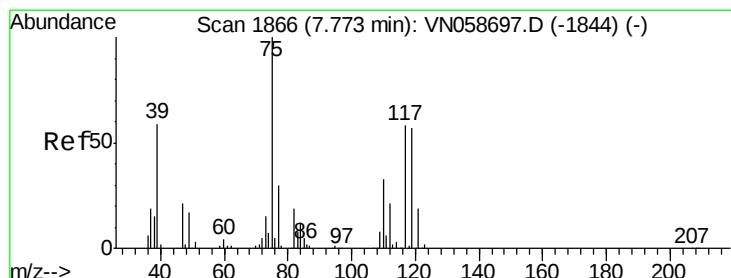
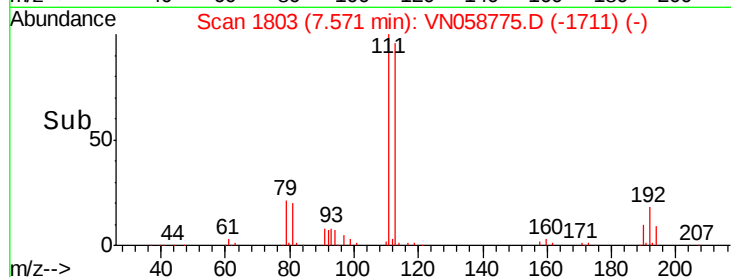
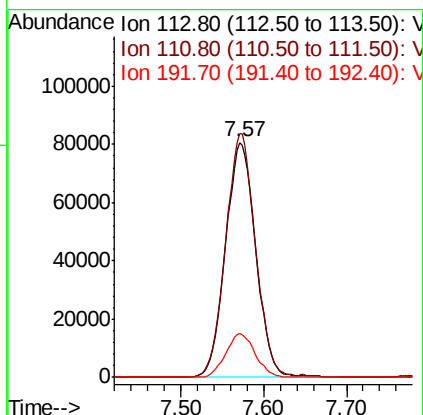
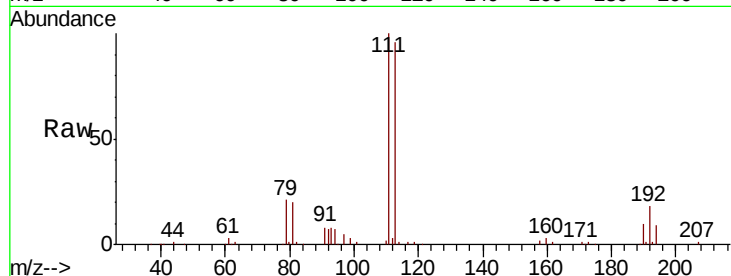




#35
 Dibromofluoromethane
 Concen: 54.151 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VN058775.D
 Acq: 15 Oct 2019 12:36

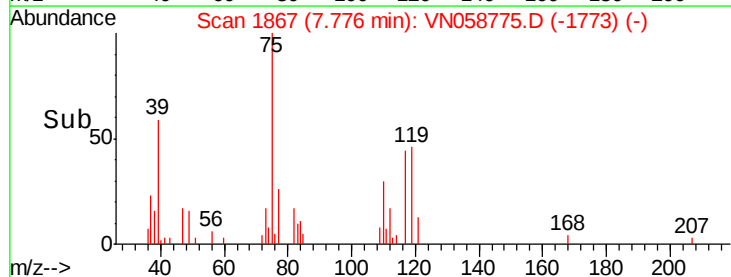
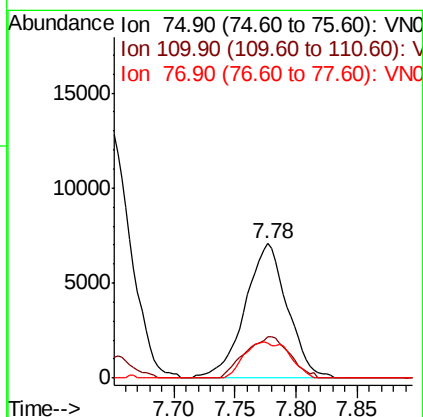
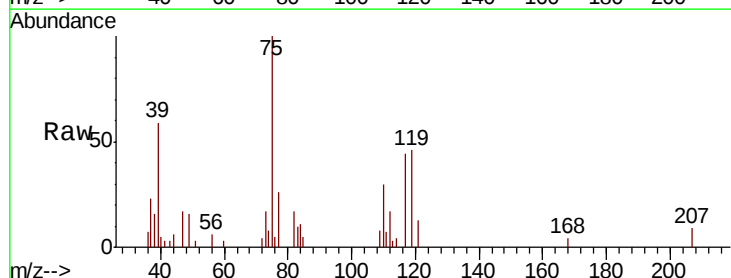
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

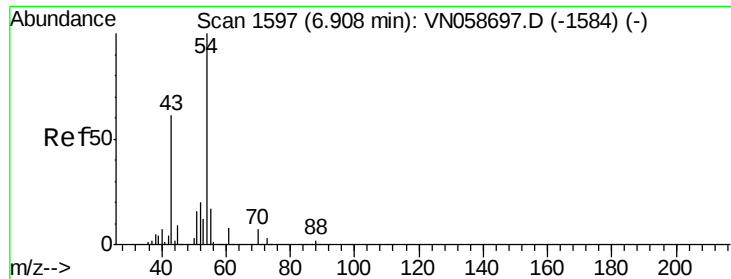
Tot Ion:113 Resp: 204498
 Ion Ratio Lower Upper
 113 100
 111 102.0 82.3 123.5
 192 18.2 15.0 22.6



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

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

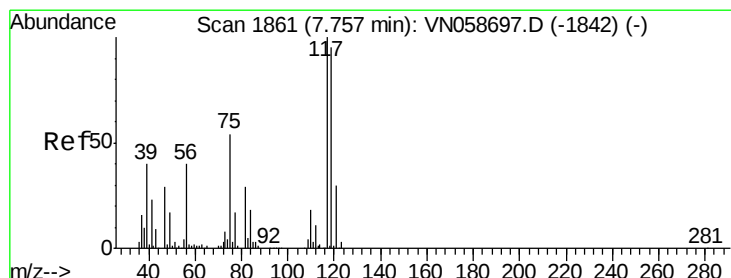
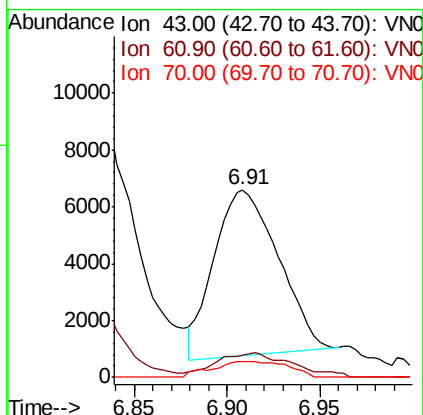
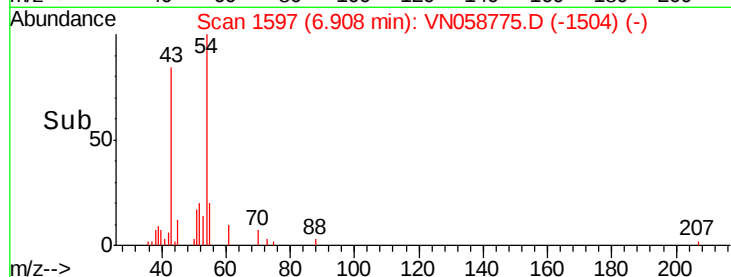
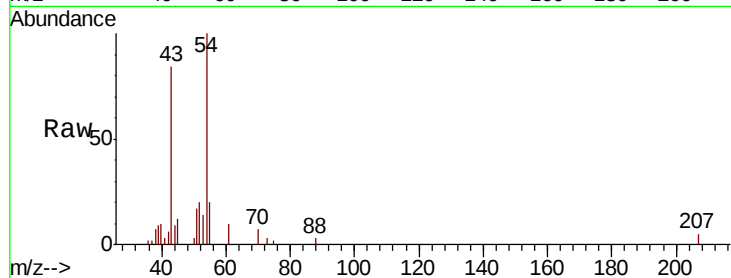




#37
Ethyl Acetate
Concen: 2.251 ug/l
RT: 6.91 min Scan# 1597
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

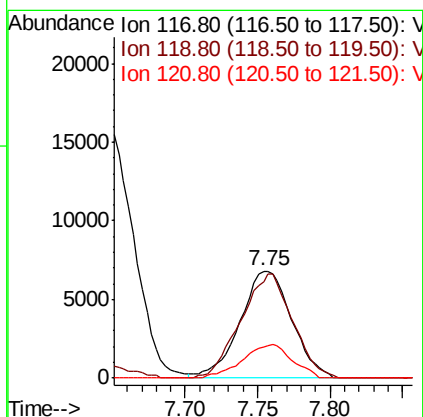
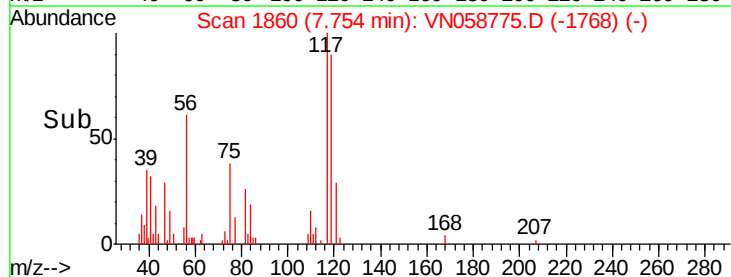
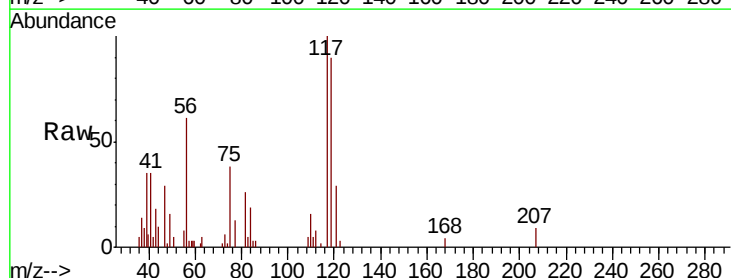
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

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



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

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

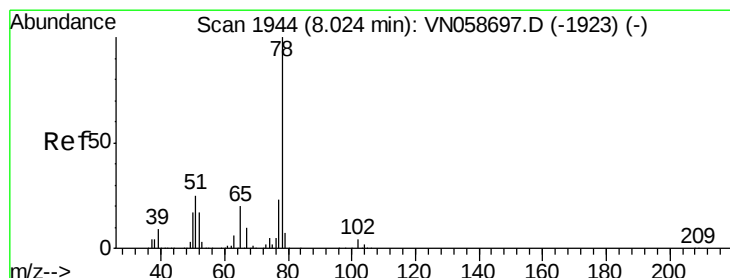
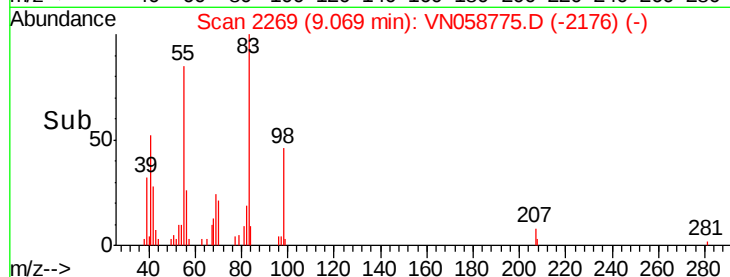
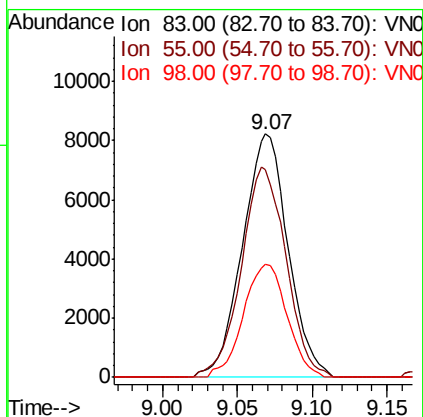
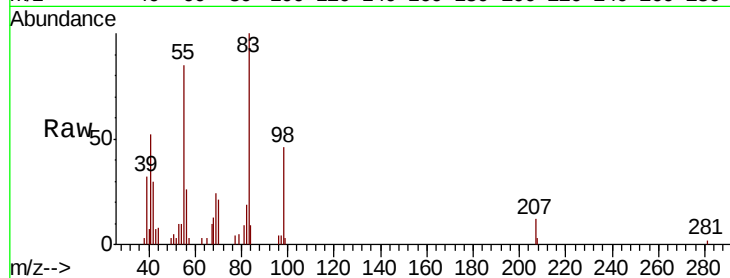




#39
Methvlcvclohexane
Concen: 2.428 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

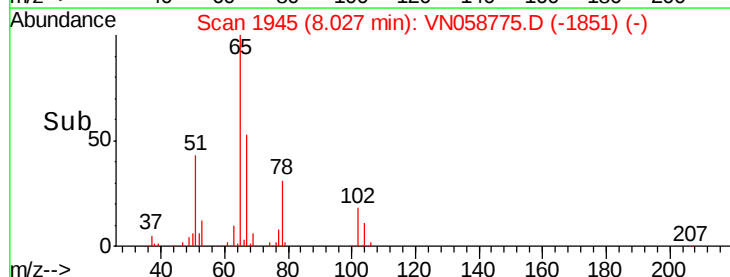
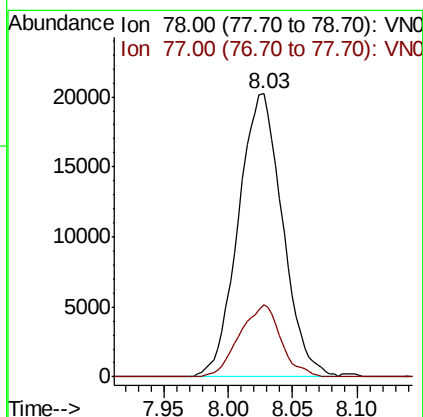
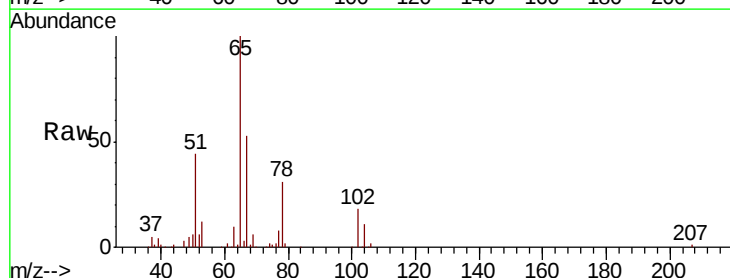
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

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



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

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

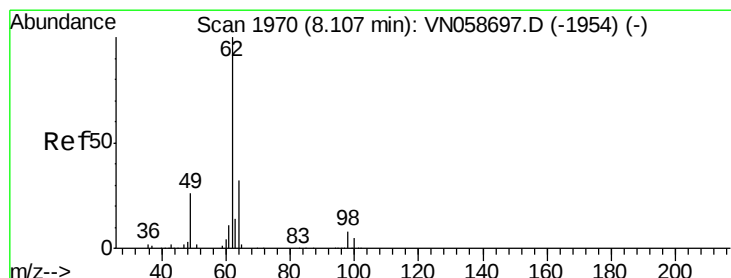
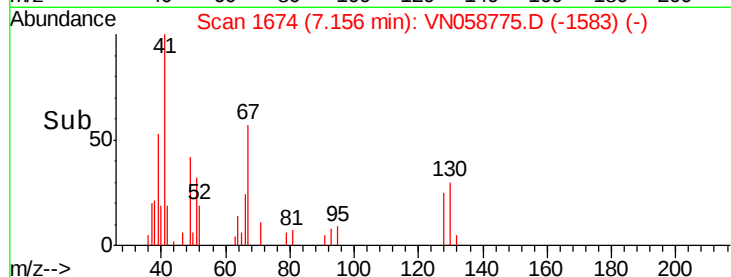
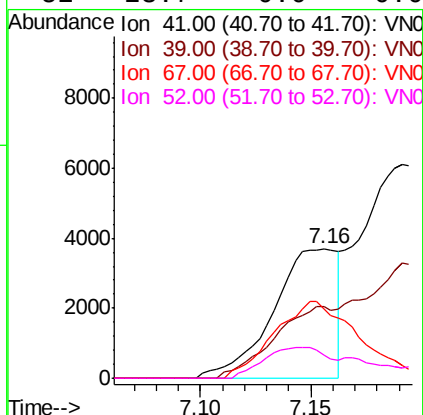
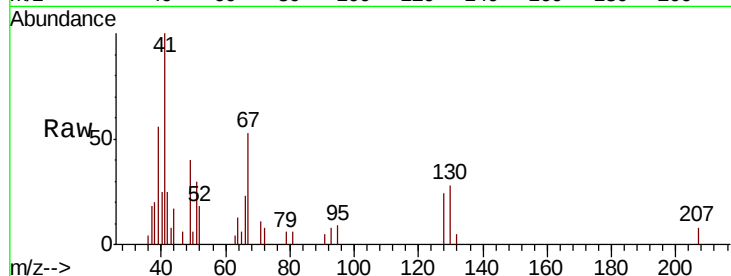




#41
Methacrylonitrile
Concen: 2.559 ug/l
RT: 7.16 min Scan# 1674
Delta R.T. -0.01 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

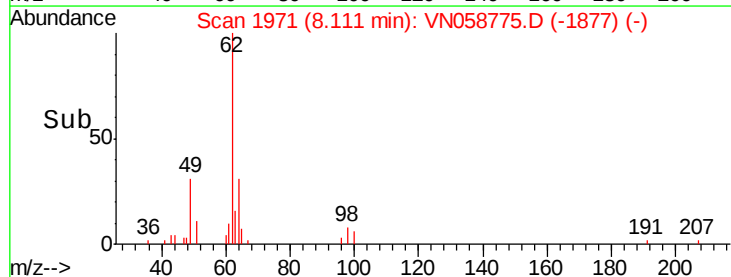
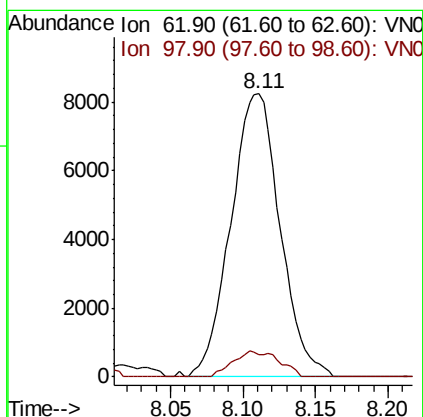
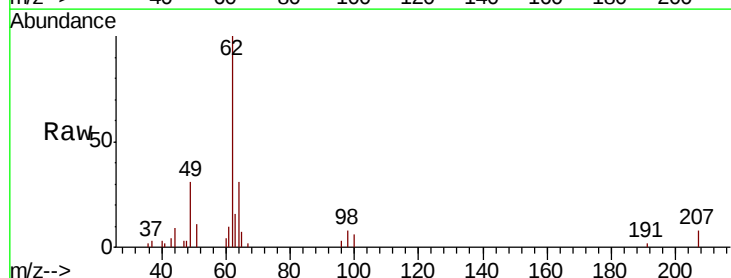
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:	41	Resp:	7490
Ion	Ratio	Lower	Upper
41	100		
39	49.1	115.4	173.2#
67	79.4	0.0	0.0#
52	23.7	0.0	0.0#



#42
1,2-Dichloroethane
Concen: 2.853 ug/l
RT: 8.11 min Scan# 1971
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

Tgt Ion:	62	Resp:	19461
Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	15.8





#43

Isopropyl Acetate

Concen: 2.656 ug/l

RT: 8.15 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

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

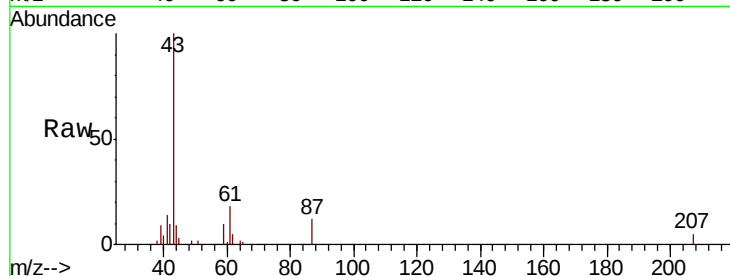
Tot Ion: 43 Resp: 28283

Ion Ratio Lower Upper

43 100

61 24.8 20.3 30.5

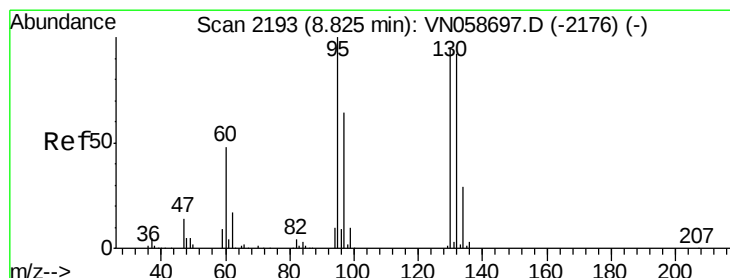
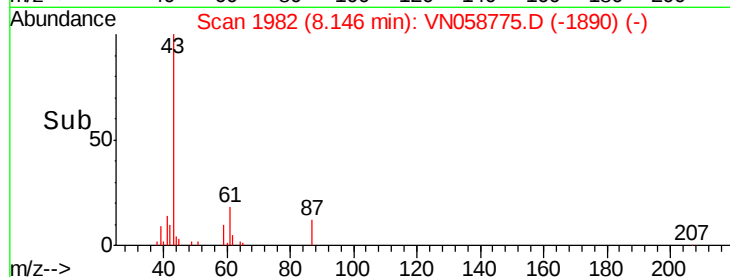
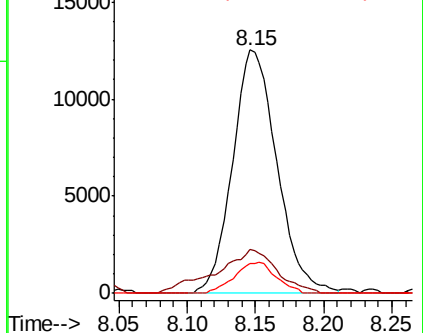
87 12.0 9.8 14.6



Abundance Ion 43.00 (42.70 to 43.70): VN058697.D (-1962) (-)

Ion 61.00 (60.70 to 61.70): VN058697.D (-1962) (-)

Ion 87.00 (86.70 to 87.70): VN058697.D (-1962) (-)



#44

Trichloroethene

Concen: 2.723 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VN058775.D

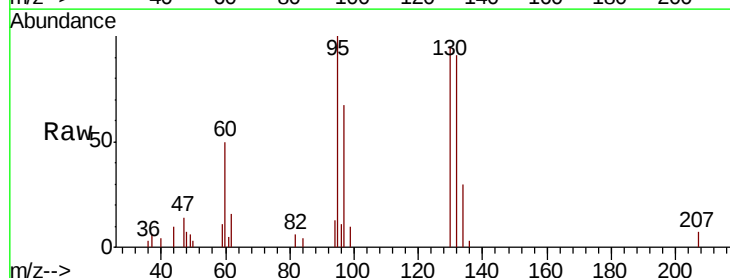
Acq: 15 Oct 2019 12:36

Tgt Ion:130 Resp: 12006

Ion Ratio Lower Upper

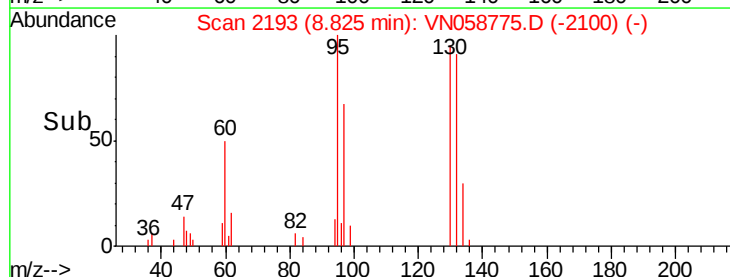
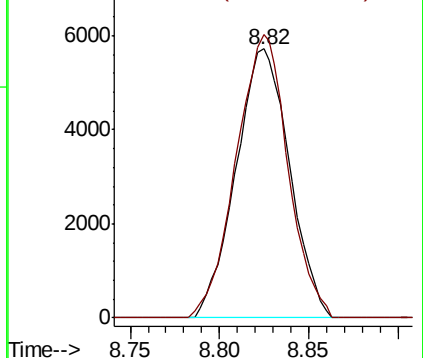
130 100

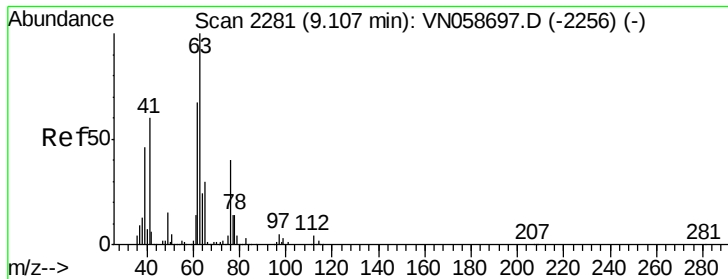
95 105.2 0.0 211.2



Abundance Ion 129.80 (129.50 to 130.50): VN058697.D (-2176) (-)

Ion 94.90 (94.60 to 95.60): VN058697.D (-2176) (-)

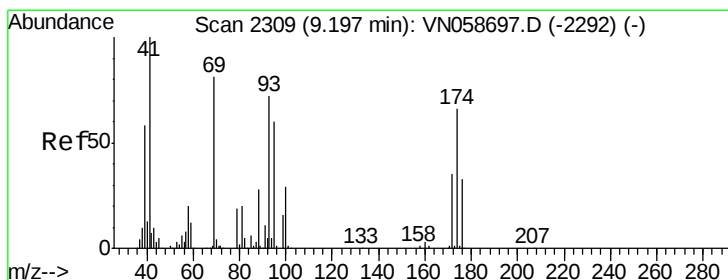
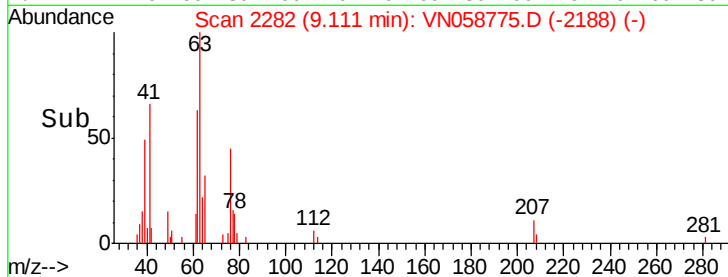
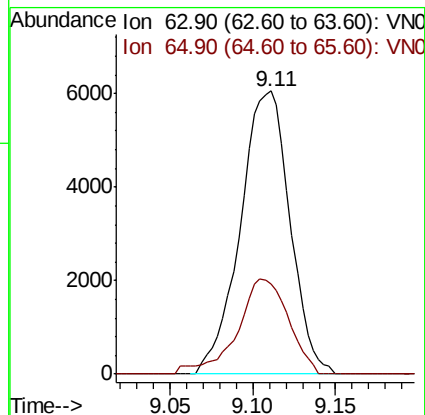
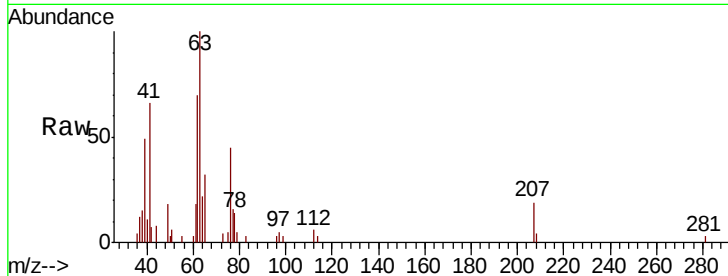




#45
 1,2-Dichloropropane
 Concen: 2.651 ug/l
 RT: 9.11 min Scan# 2282
 Delta R.T. 0.00 min
 Lab File: VN058775.D
 Acq: 15 Oct 2019 12:36

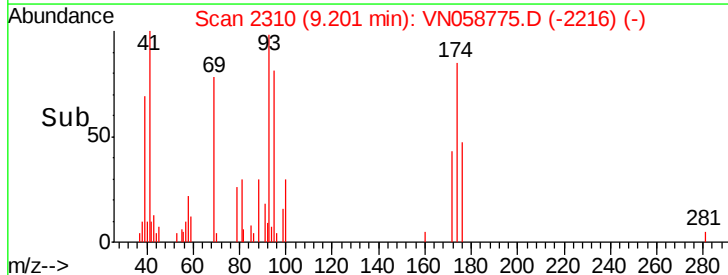
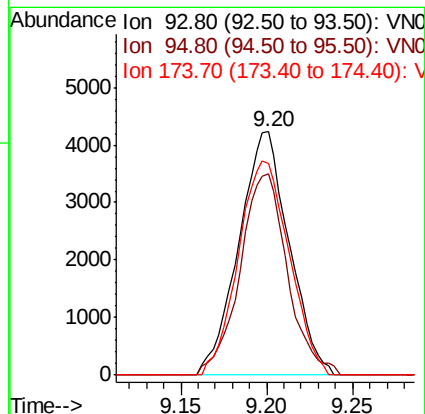
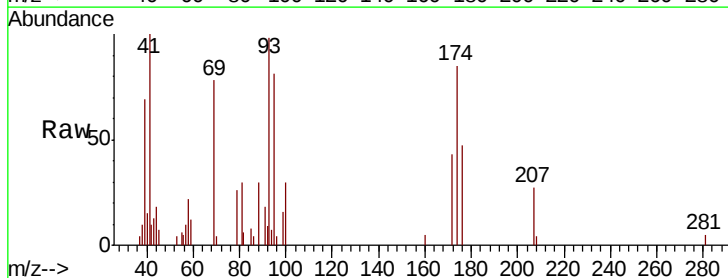
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

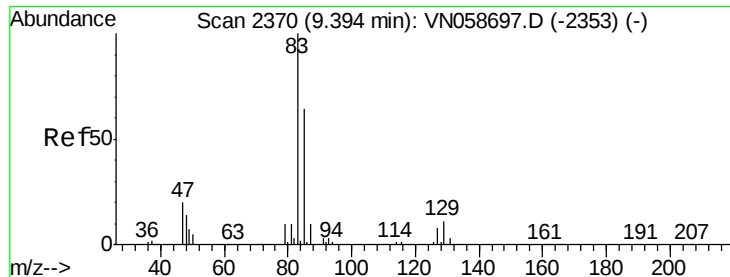
Tot Ion: 63 Resp: 12599
 Ion Ratio Lower Upper
 63 100
 65 32.0 24.1 36.1



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

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





#47

Bromodichloromethane

Concen: 2.740 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

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

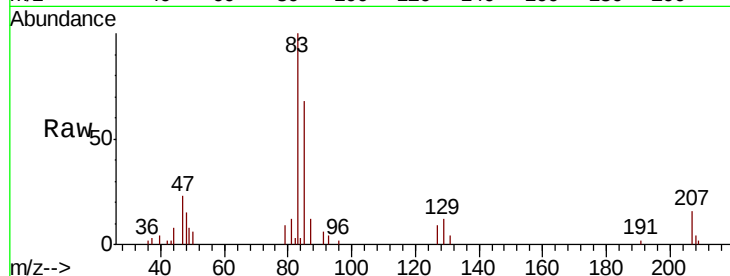
Tot Ion: 83 Resp: 16815

Ion Ratio Lower Upper

83 100

85 67.8 50.9 76.3

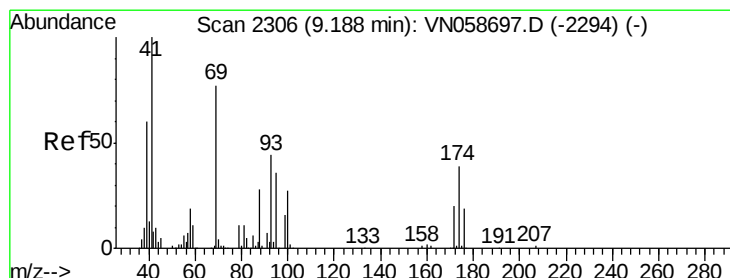
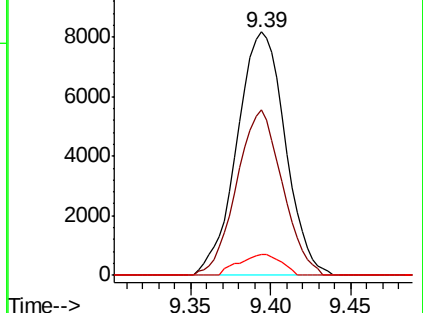
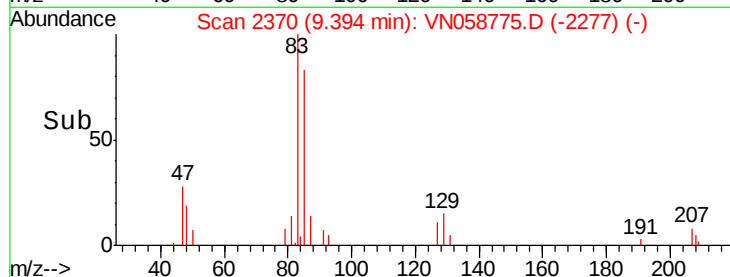
127 8.8 6.3 9.5



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 2.584 ug/l

RT: 9.19 min Scan# 2307

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

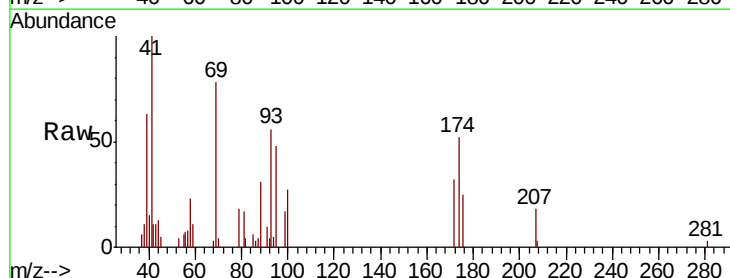
Tgt Ion: 41 Resp: 12474

Ion Ratio Lower Upper

41 100

69 77.5 63.4 95.2

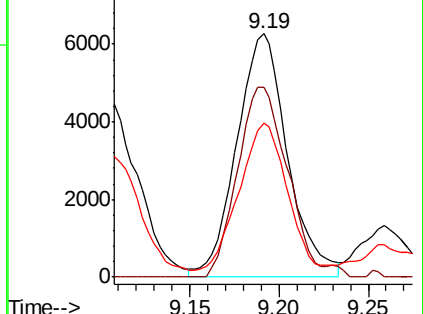
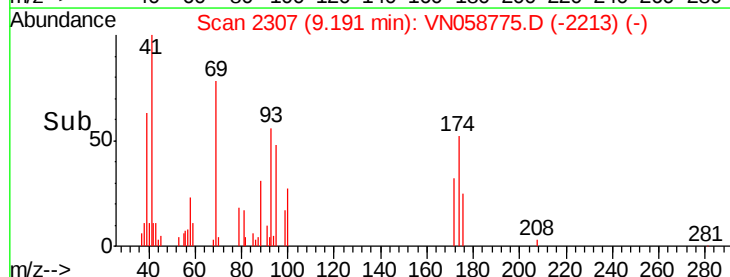
39 58.9 48.9 73.3



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 55.995 ug/l

RT: 9.19 min Scan# 2306

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

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

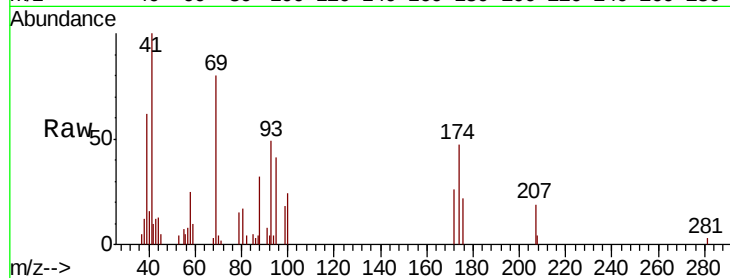
Tot Ion: 88 Resp: 4182

Ion Ratio Lower Upper

88 100

43 37.2 28.6 43.0

58 73.2 57.2 85.8

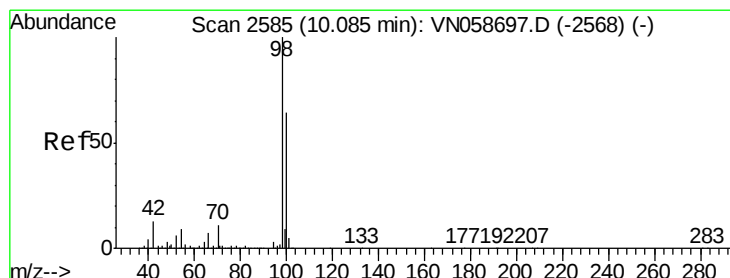
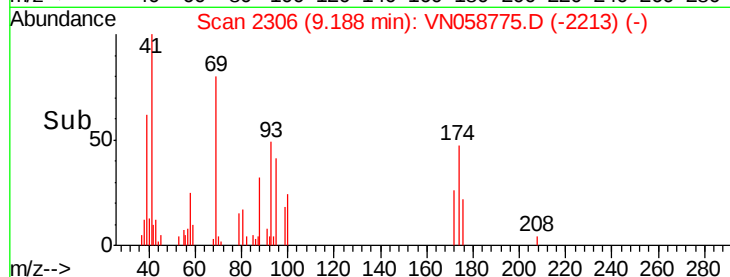
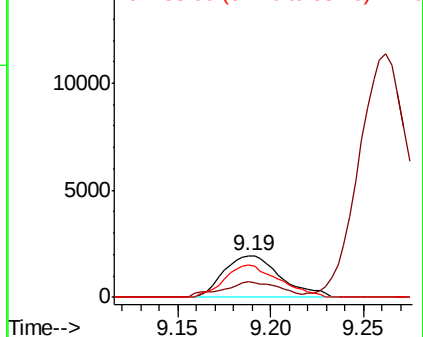


Abundance

Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 50.355 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. -0.00 min

Lab File: VN058775.D

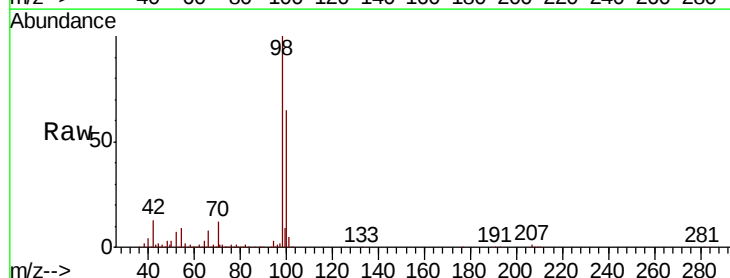
Acq: 15 Oct 2019 12:36

Tgt Ion: 98 Resp: 760432

Ion Ratio Lower Upper

98 100

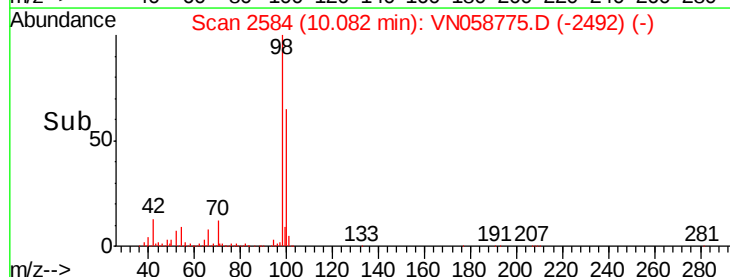
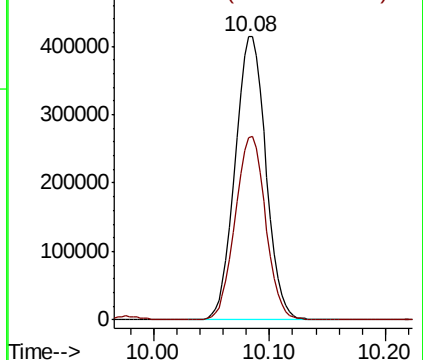
100 64.3 51.1 76.7

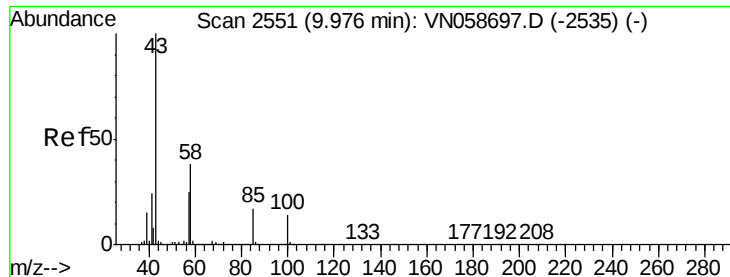


Abundance

Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 13.232 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

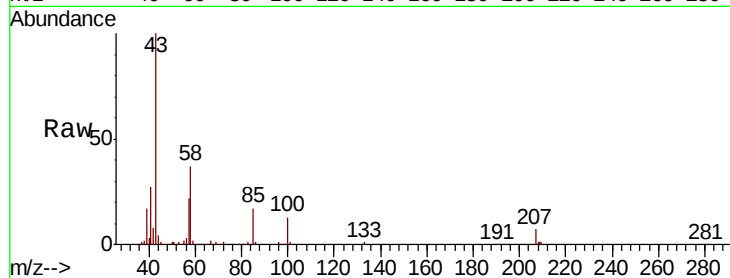
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 43 Resp: 79144

Ion Ratio Lower Upper

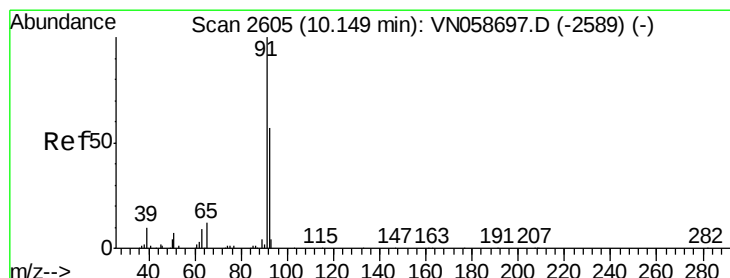
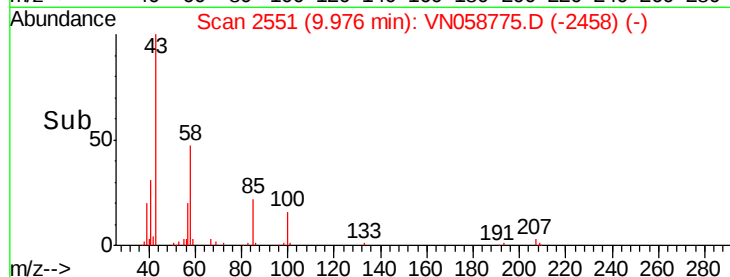
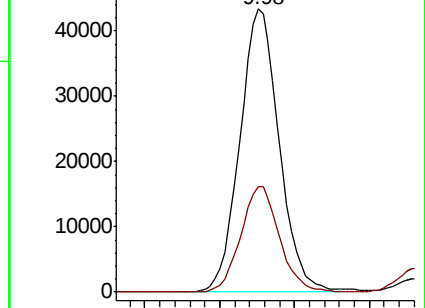
43 100

58 36.6 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) (-)



#52

Toluene

Concen: 2.715 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VN058775.D

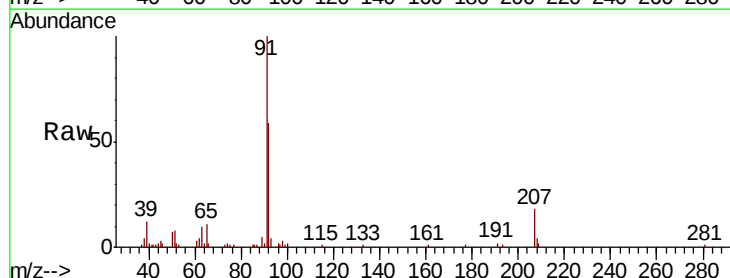
Acq: 15 Oct 2019 12:36

Tgt Ion: 92 Resp: 29477

Ion Ratio Lower Upper

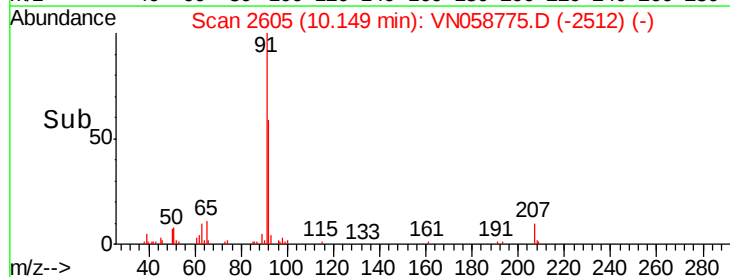
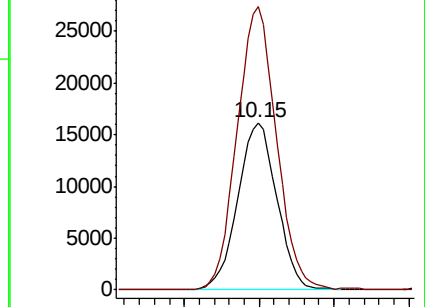
92 100

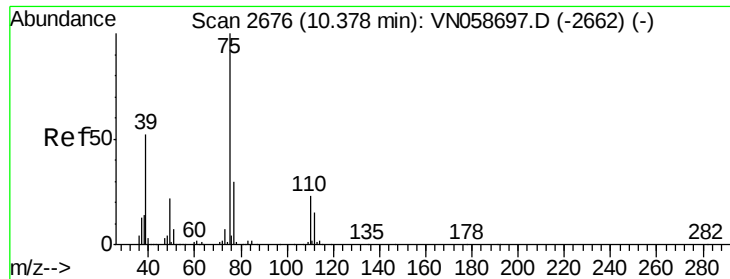
91 169.8 139.1 208.7



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

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





#53

t-1,3-Dichloropropene

Concen: 2.591 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

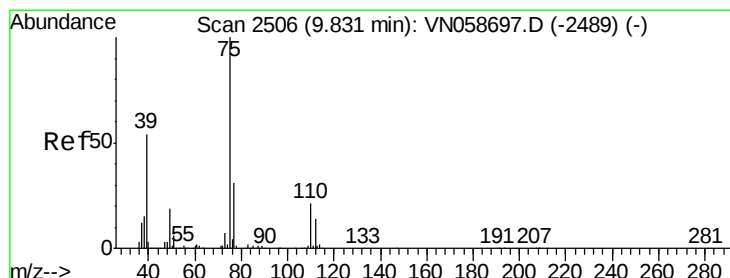
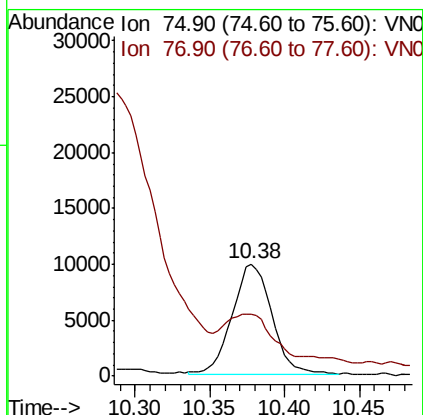
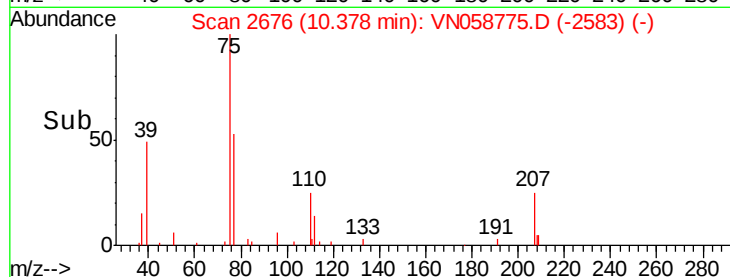
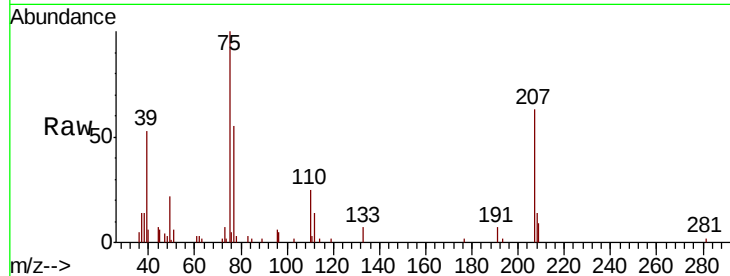
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 75 Resp: 18232

Ion Ratio Lower Upper

75 100

77 40.0 26.2 39.4#



#54

cis-1,3-Dichloropropene

Concen: 2.489 ug/l

RT: 9.83 min Scan# 2507

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

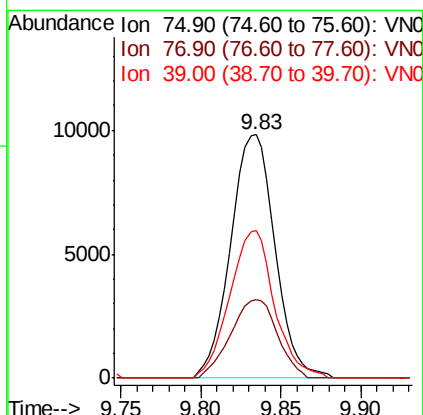
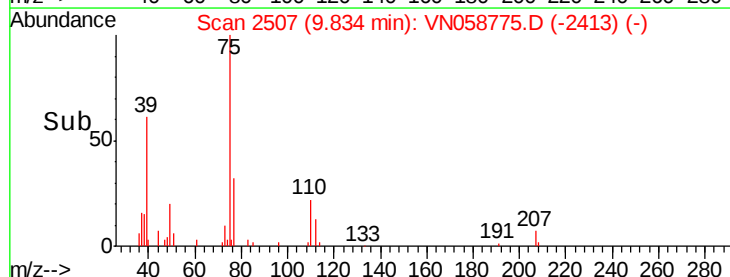
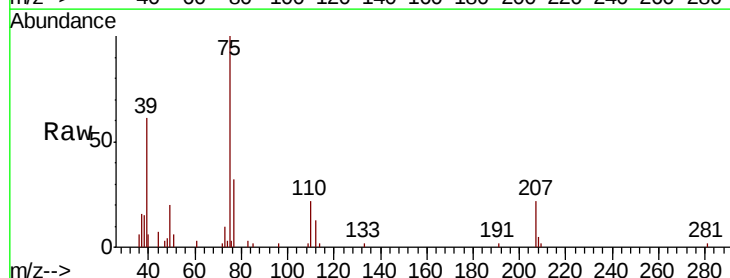
Tgt Ion: 75 Resp: 18595

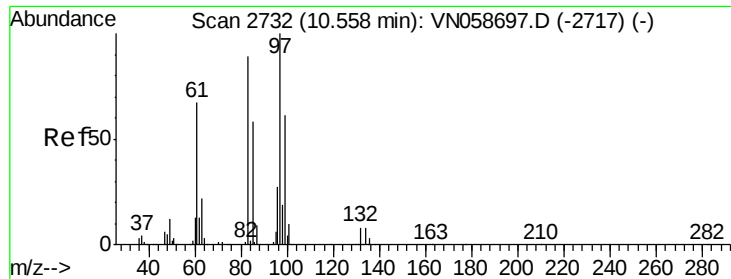
Ion Ratio Lower Upper

75 100

77 32.4 24.4 36.6

39 60.5 43.1 64.7

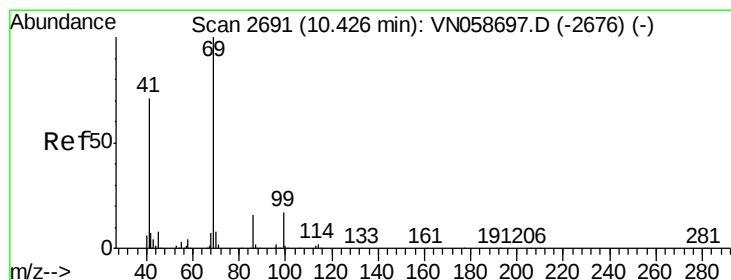
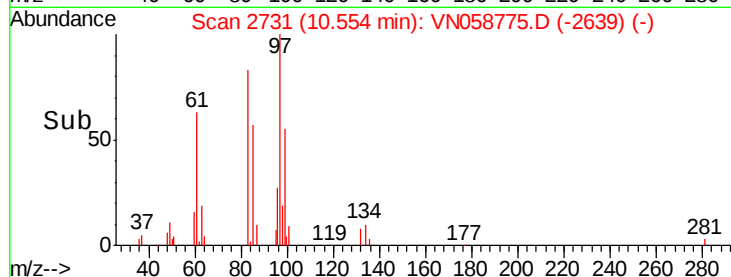
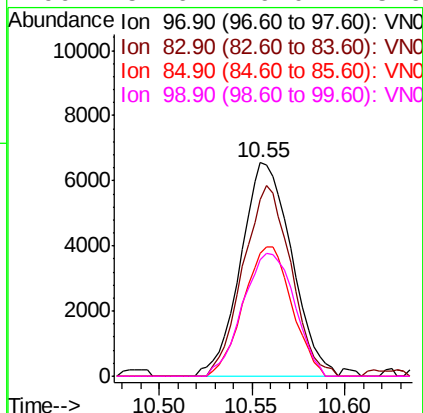
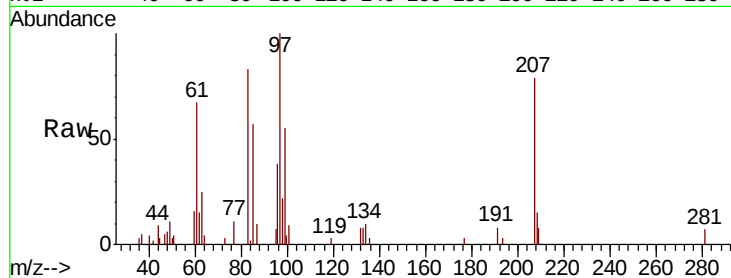




#55
 1,1,2-Trichloroethane
 Concen: 2.815 ug/l
 RT: 10.55 min Scan# 2731
 Delta R.T. -0.00 min
 Lab File: VN058775.D
 Acq: 15 Oct 2019 12:36

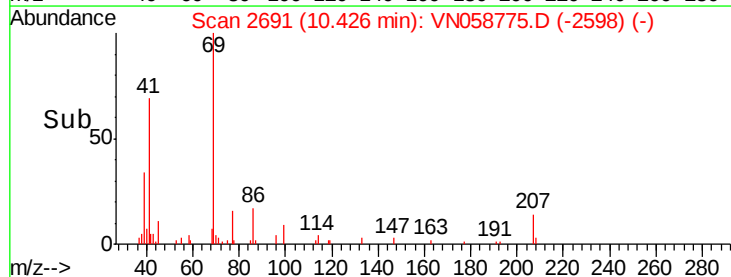
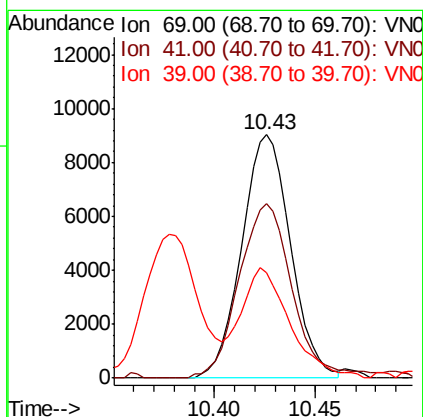
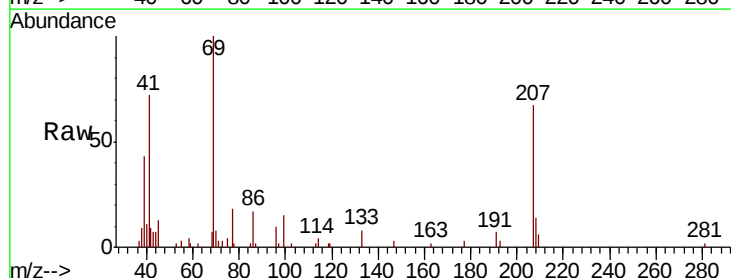
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

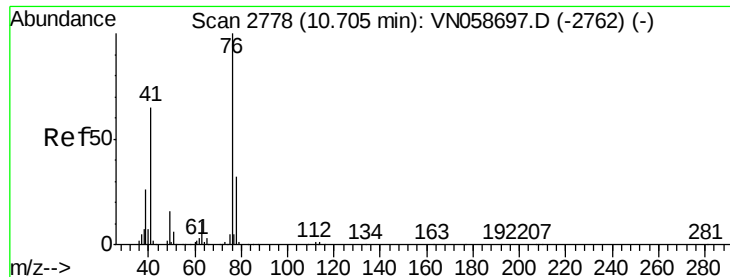
Tot Ion: 97 Resp: 12512
 Ion Ratio Lower Upper
 97 100
 83 82.7 71.2 106.8
 85 57.4 46.7 70.1
 99 54.6 49.0 73.6



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

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





#57

1,3-Dichloropropane

Concen: 2.768 ug/l

RT: 10.70 min Scan# 2777

Delta R.T. -0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

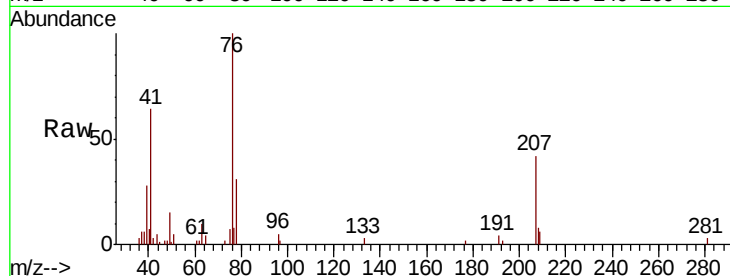
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 76 Resp: 20961

Ion Ratio Lower Upper

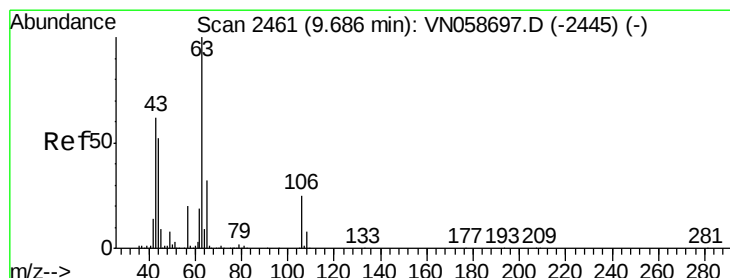
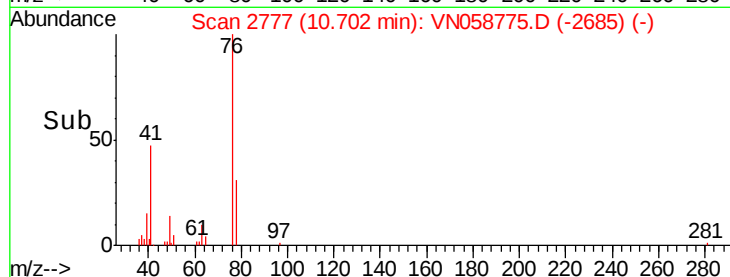
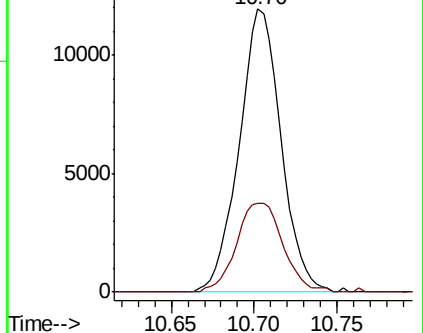
76 100

78 35.0 25.9 38.9



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: 10.943 ug/l

RT: 9.69 min Scan# 2462

Delta R.T. 0.00 min

Lab File: VN058775.D

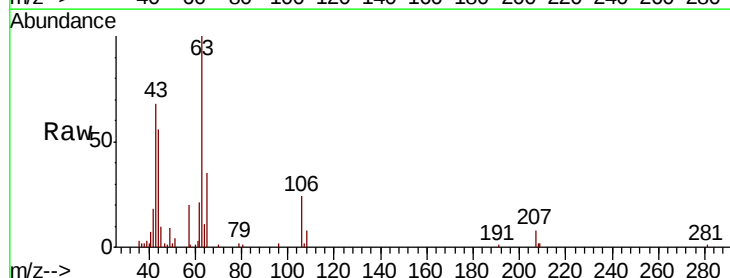
Acq: 15 Oct 2019 12:36

Tgt Ion: 63 Resp: 34242

Ion Ratio Lower Upper

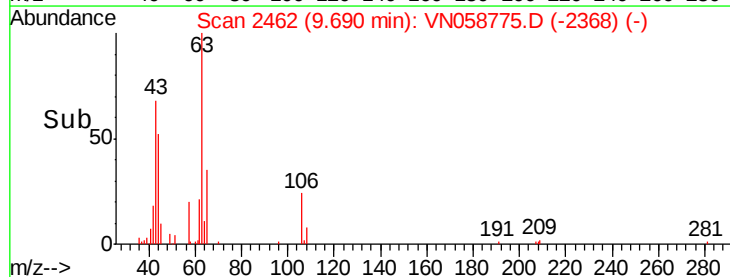
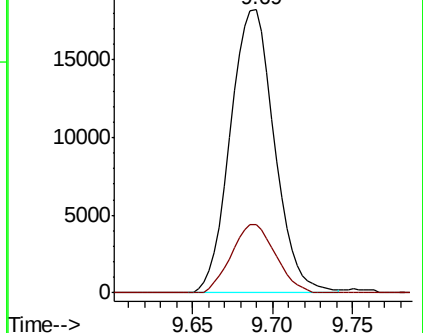
63 100

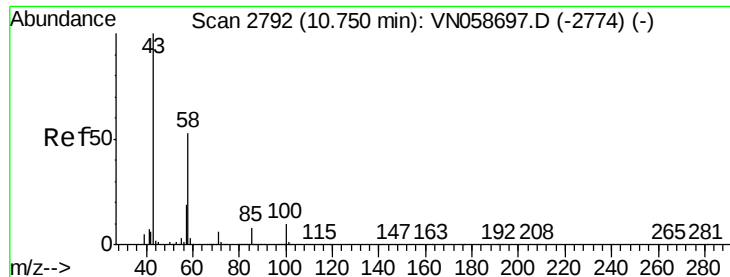
106 24.1 20.0 30.0



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

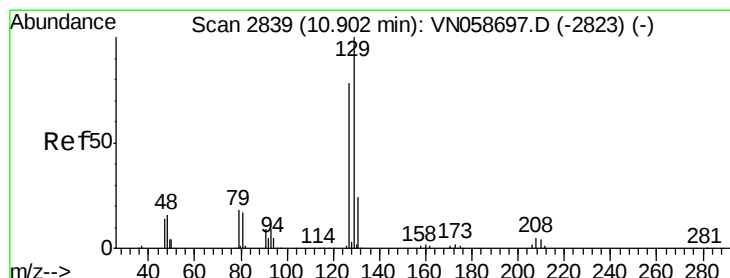
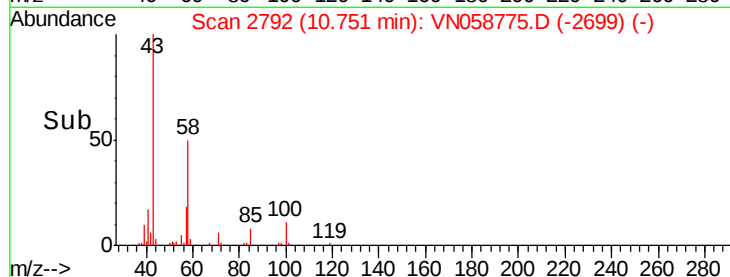
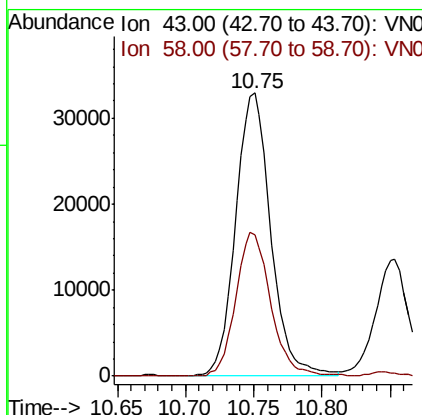
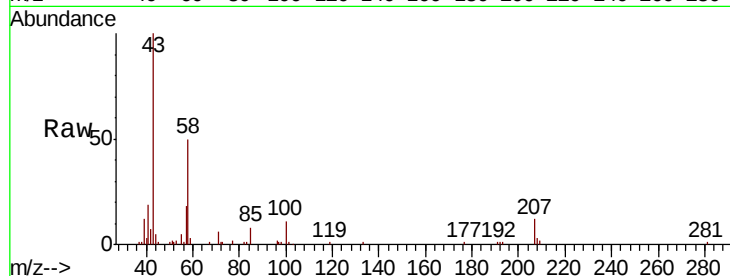




#59
2-Hexanone
Concen: 12.775 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

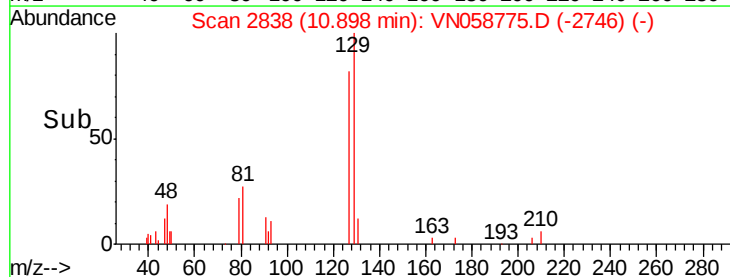
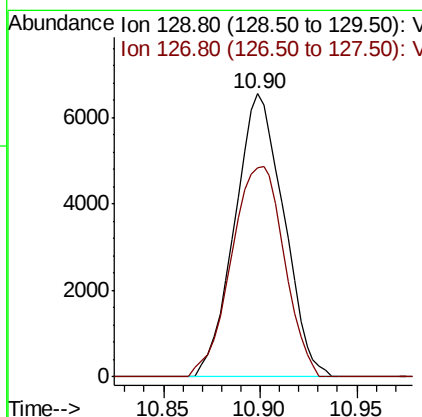
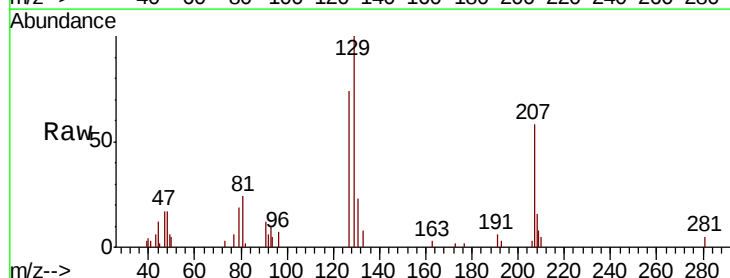
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

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



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

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

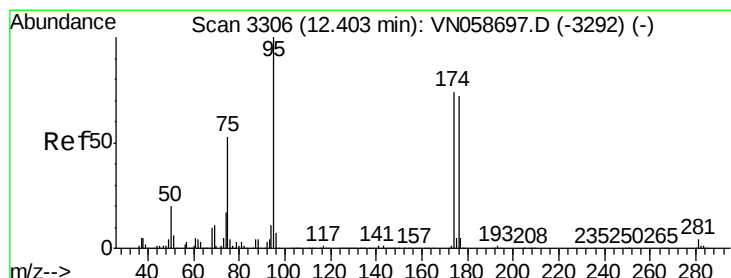
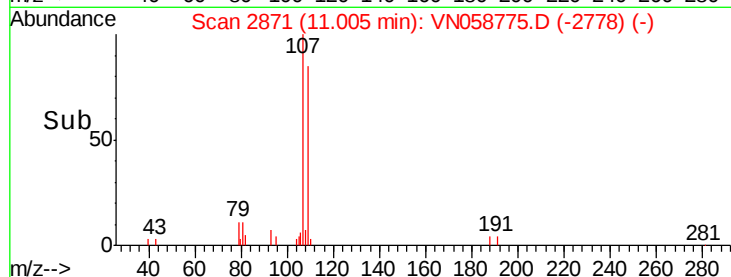
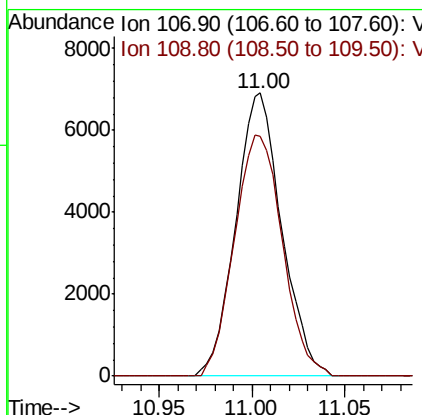
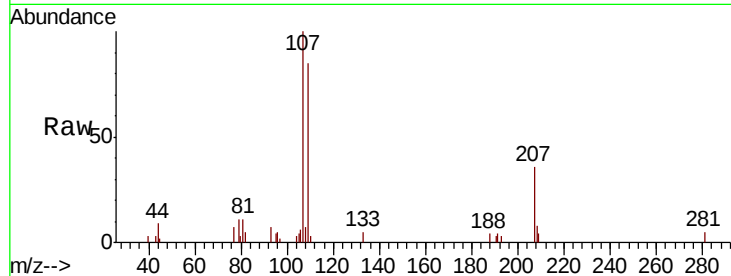




#61
 1,2-Dibromoethane
 Concen: 2.674 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN058775.D
 Acq: 15 Oct 2019 12:36

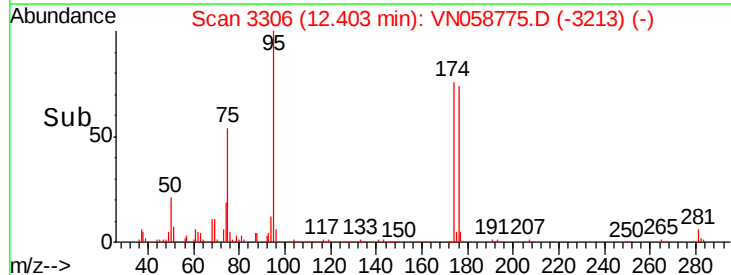
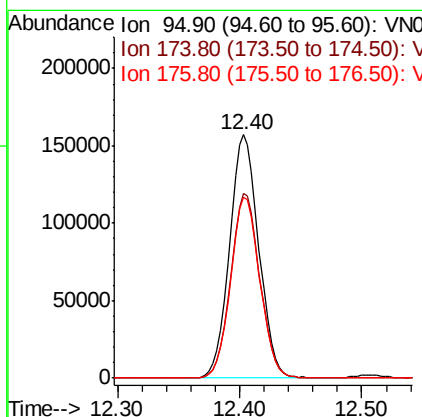
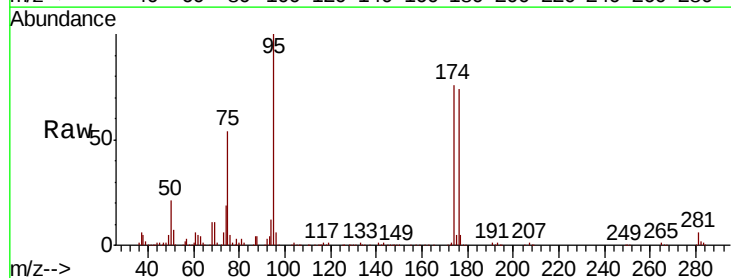
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 107 Resp: 11906
 Ion Ratio Lower Upper
 107 100
 109 89.3 75.4 113.0



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

Tgt Ion: 95 Resp: 261834
 Ion Ratio Lower Upper
 95 100
 174 75.9 0.0 150.4
 176 74.2 0.0 146.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

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

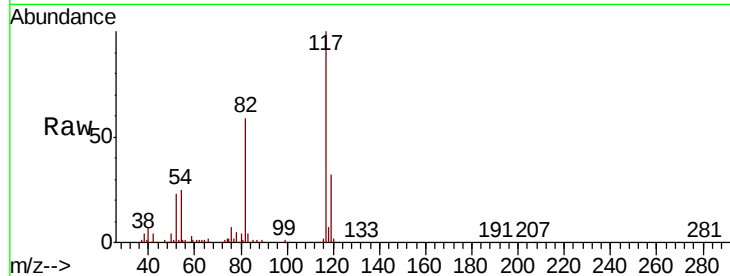
Tot Ion:117 Resp: 554661

Ion Ratio Lower Upper

117 100

82 59.5 47.0 70.4

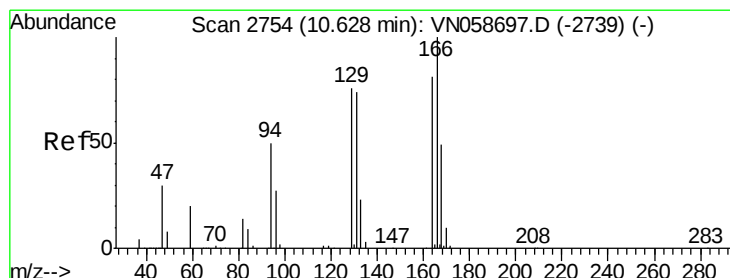
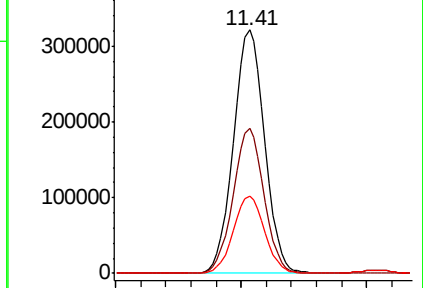
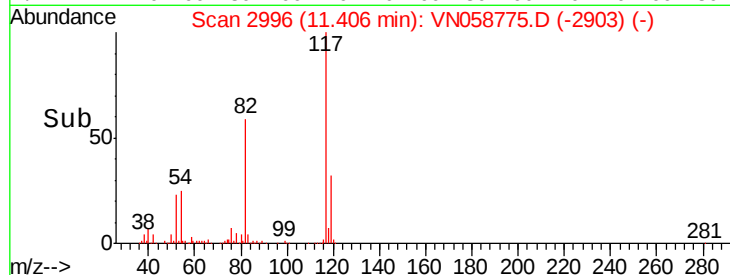
119 31.6 25.4 38.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 2.812 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Tgt Ion:164 Resp: 10915

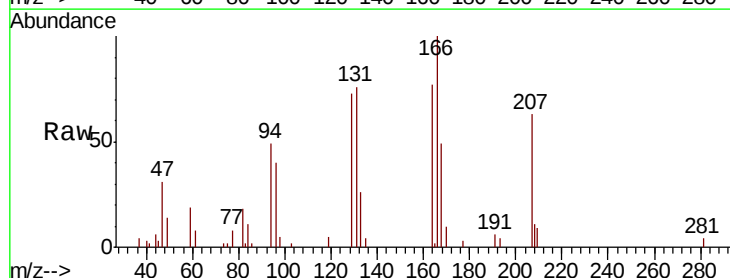
Ion Ratio Lower Upper

164 100

166 129.5 99.3 148.9

129 94.4 75.2 112.8

131 98.5 73.0 109.4

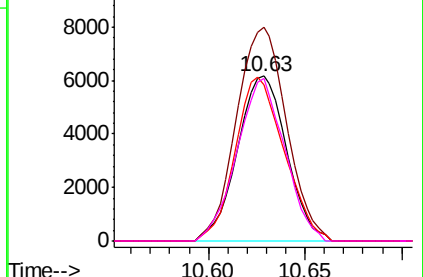
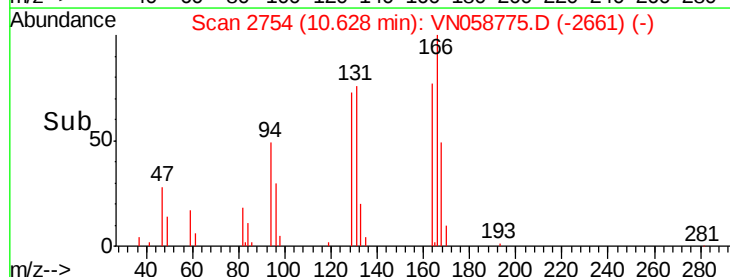


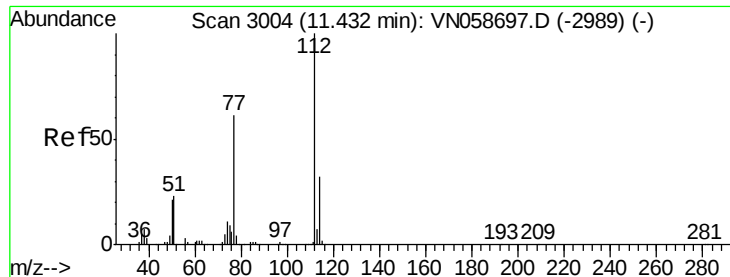
Abundance Ion 163.80 (163.50 to 164.50): V

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: 2.646 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

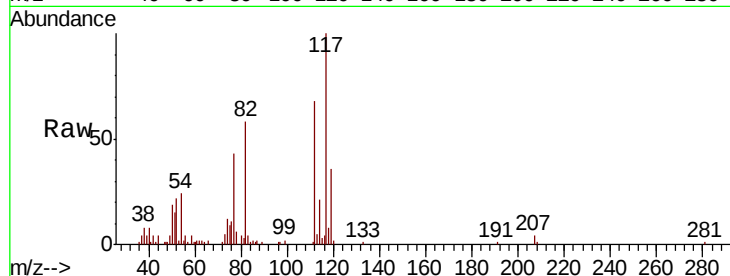
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:112 Resp: 29800

Ion Ratio Lower Upper

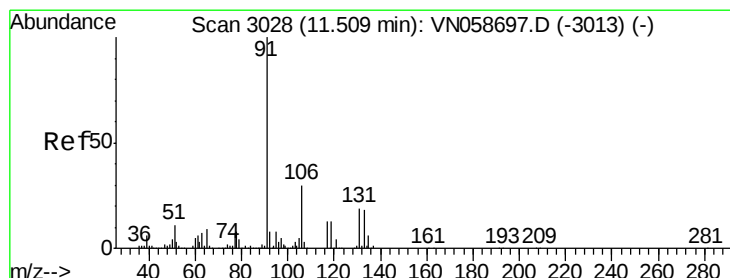
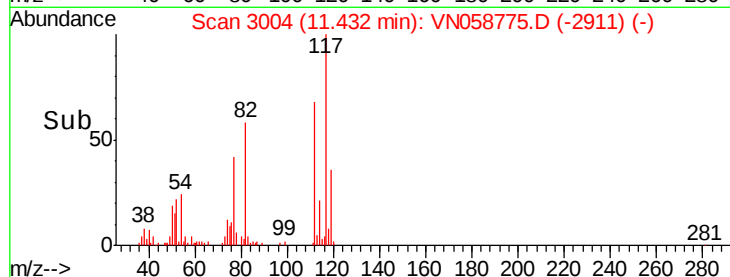
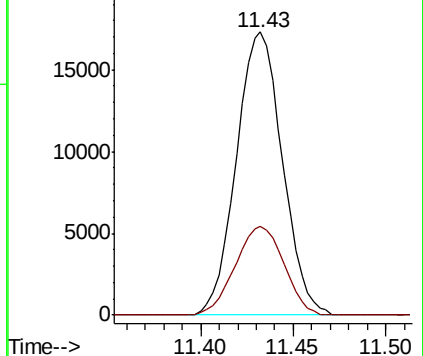
112 100

114 31.2 25.2 37.8



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 2.790 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

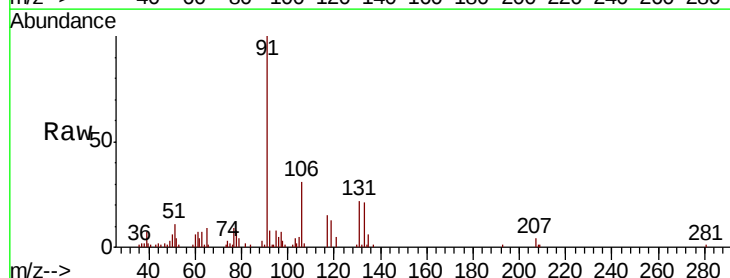
Tgt Ion:131 Resp: 11620

Ion Ratio Lower Upper

131 100

133 101.3 47.6 142.9

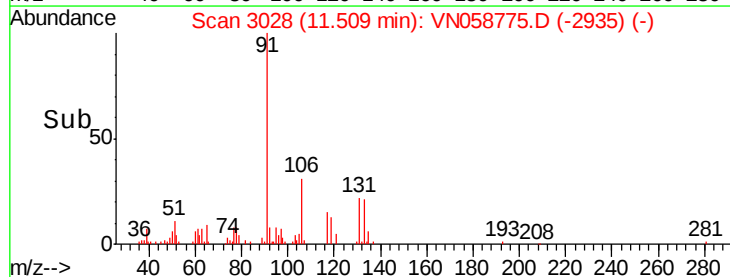
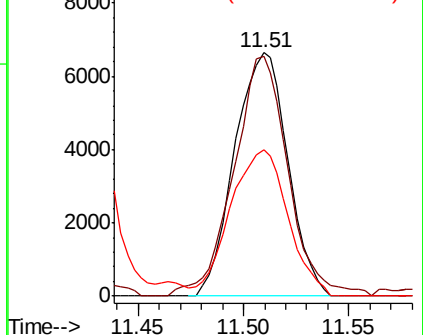
119 65.4 33.0 98.9

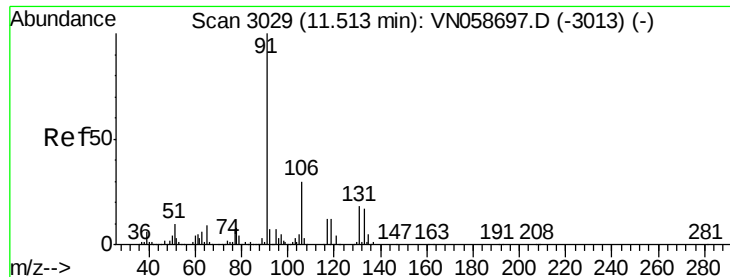


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 2.587 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

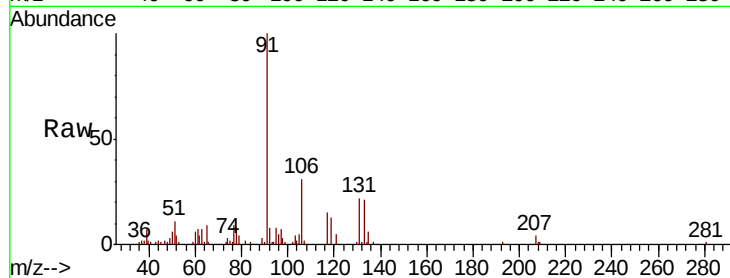
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 91 Resp: 51936

Ion Ratio Lower Upper

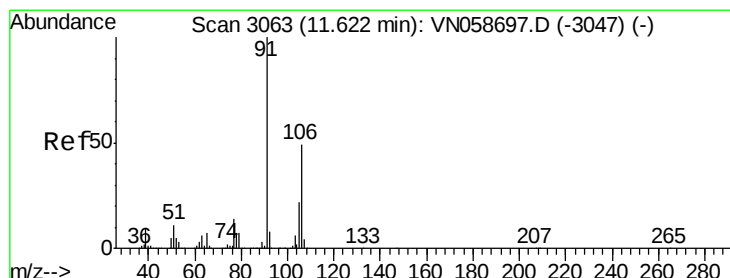
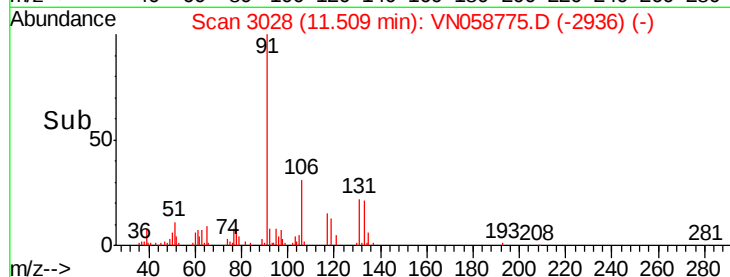
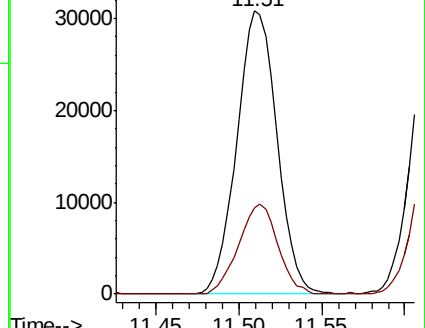
91 100

106 30.6 24.1 36.1



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

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



#68

m/p-Xylenes

Concen: 4.946 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN058775.D

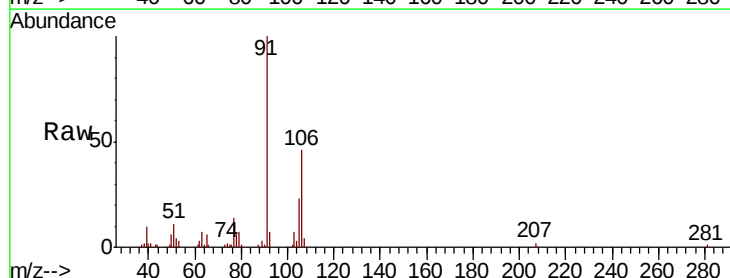
Acq: 15 Oct 2019 12:36

Tgt Ion: 106 Resp: 37271

Ion Ratio Lower Upper

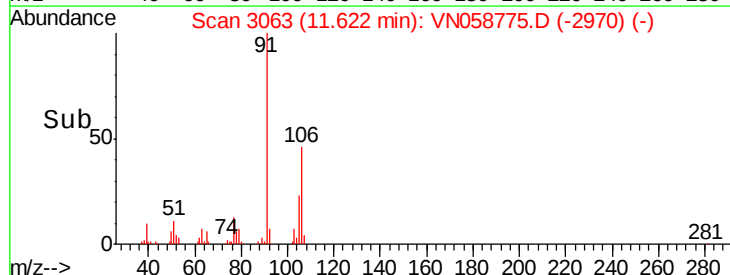
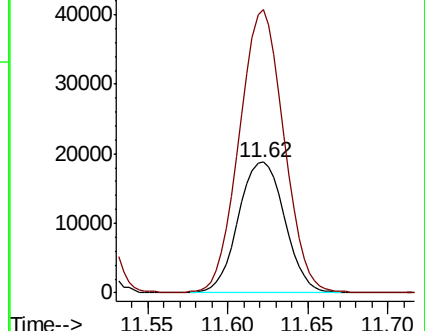
106 100

91 208.4 165.7 248.5



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

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

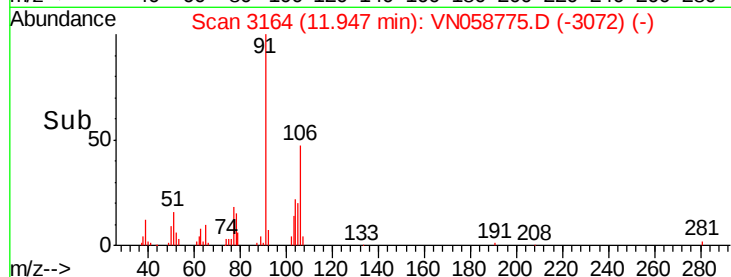
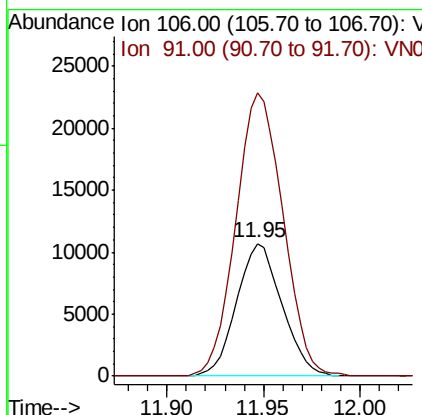
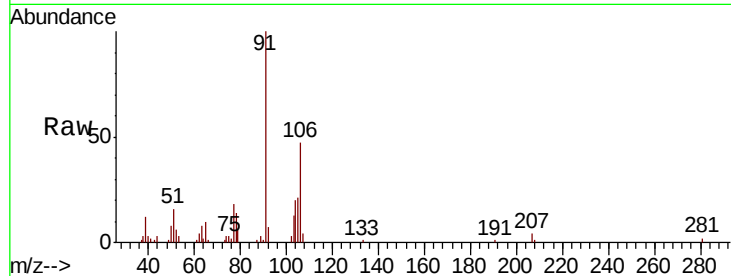




#69
o-Xylene
Concen: 2.392 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

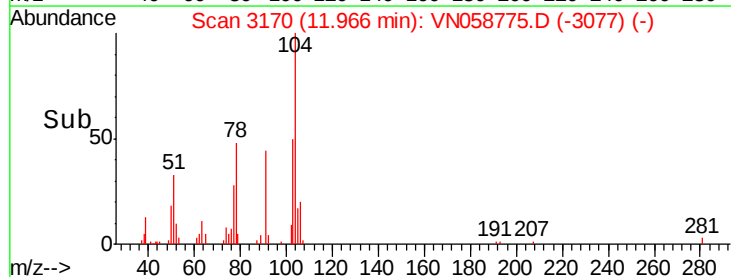
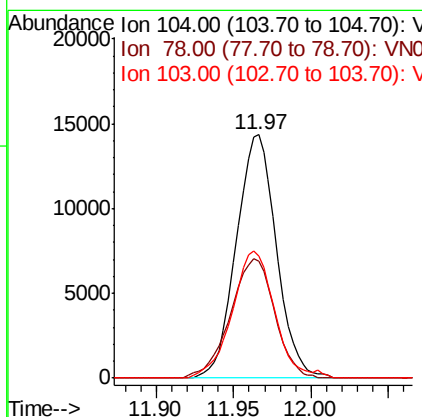
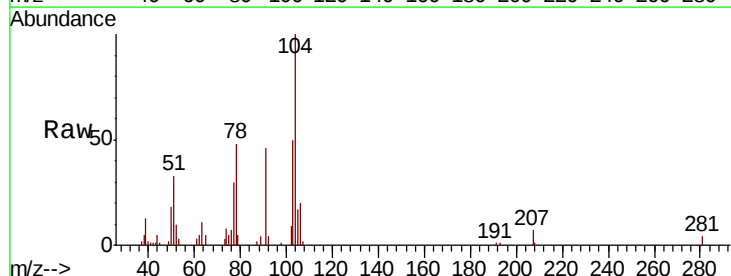
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

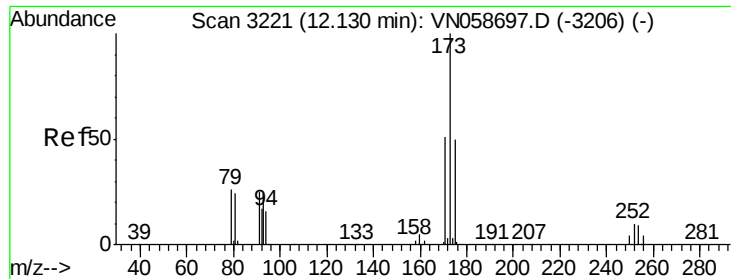
Tot Ion:106 Resp: 17435
Ion Ratio Lower Upper
106 100
91 222.2 110.9 332.9



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

Tgt Ion:104 Resp: 25898
Ion Ratio Lower Upper
104 100
78 54.0 42.2 63.2
103 55.3 43.7 65.5





#71

Bromoform

Concen: 2.582 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

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

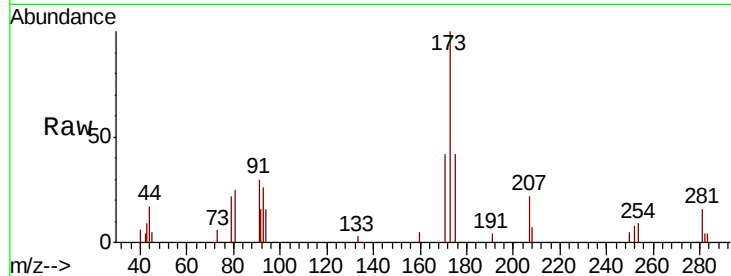
Tot Ion:173 Resp: 7884

Ion Ratio Lower Upper

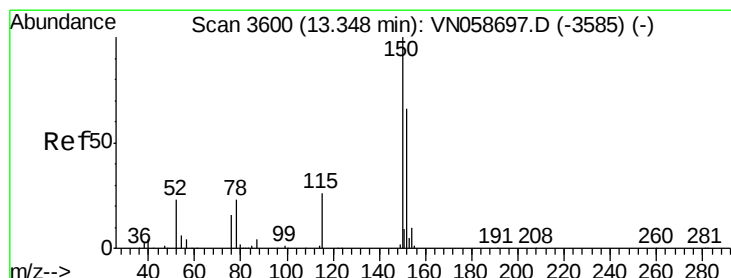
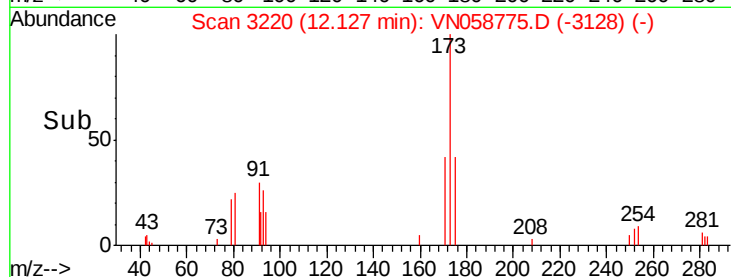
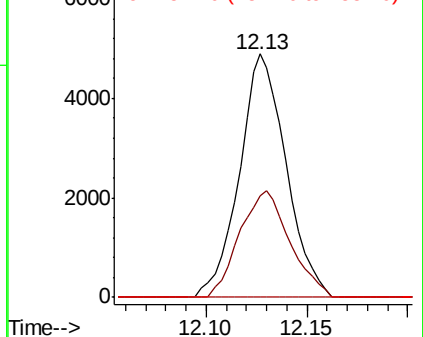
173 100

175 47.2 24.6 73.8

254 0.0 0.1 0.1#



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: VN058775.D

Acq: 15 Oct 2019 12:36

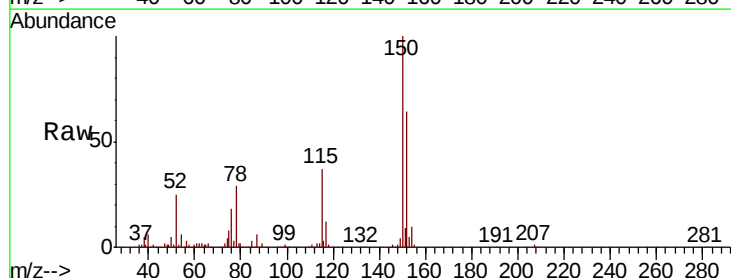
Tgt Ion:152 Resp: 236985

Ion Ratio Lower Upper

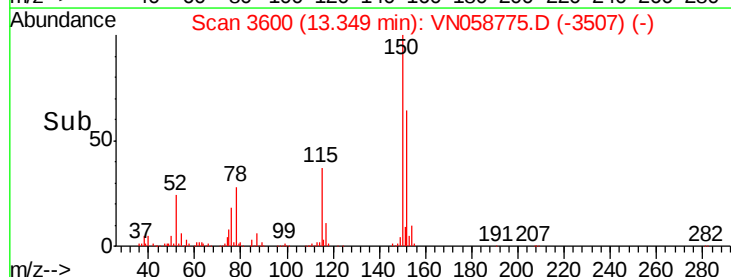
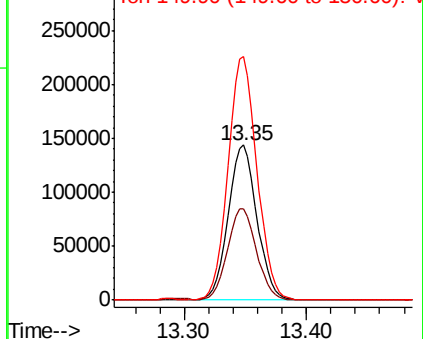
152 100

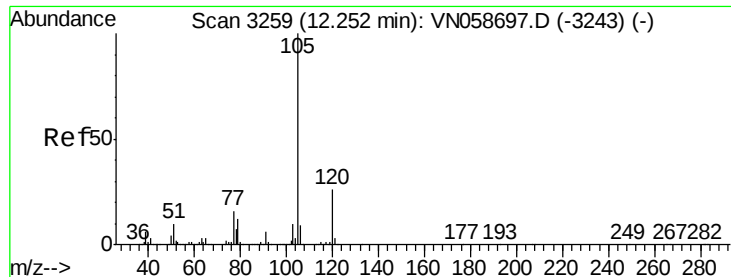
115 59.5 30.4 91.2

150 156.9 0.0 345.4



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: 2.724 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

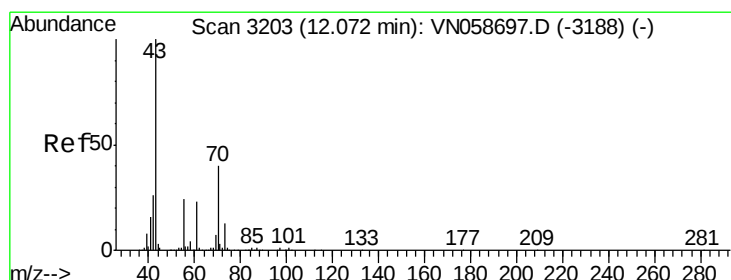
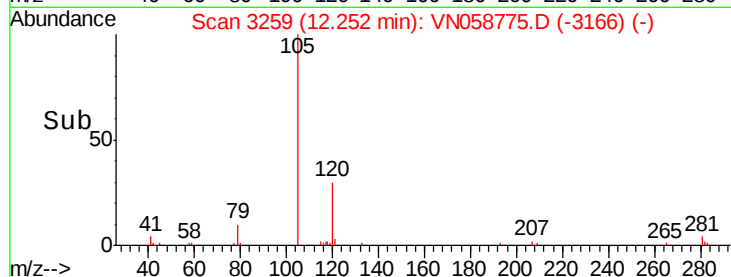
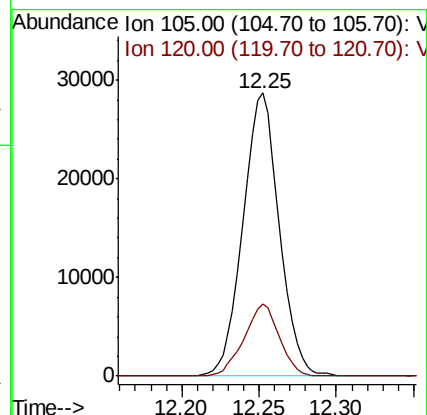
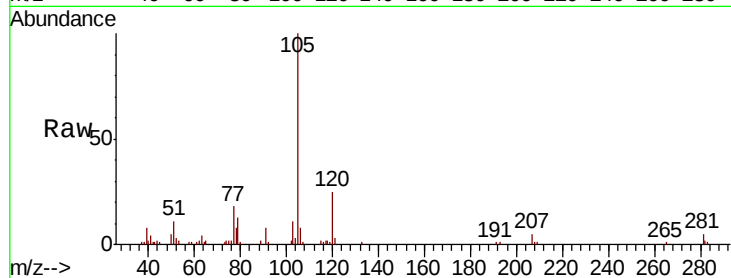
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:105 Resp: 46757

Ion Ratio Lower Upper

105 100

120 24.7 13.1 39.1



#74

N-ethyl acetate

Concen: 2.459 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Tgt Ion: 43 Resp: 18956

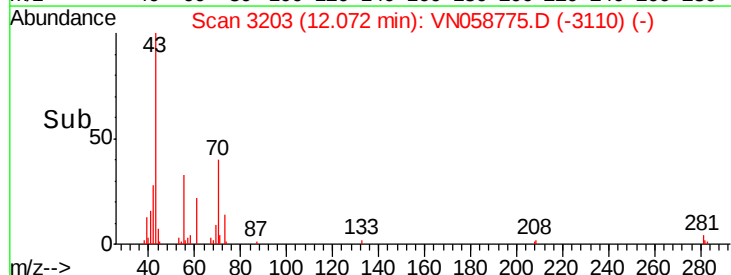
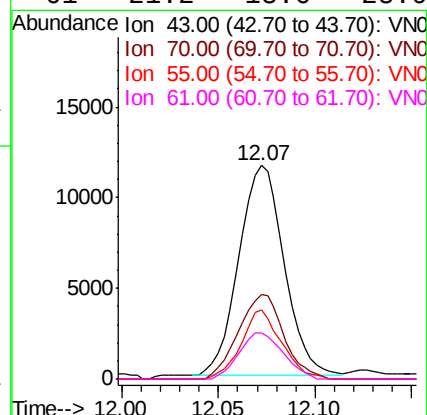
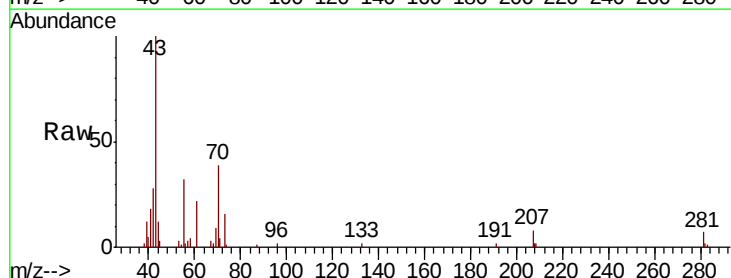
Ion Ratio Lower Upper

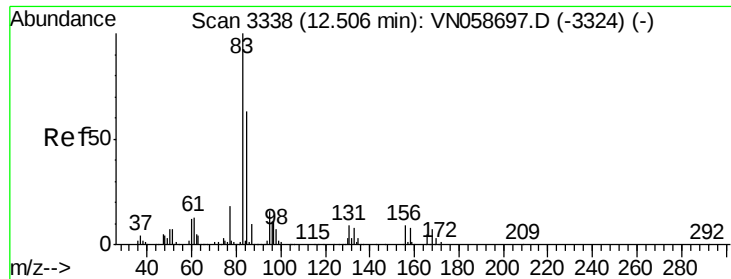
43 100

70 39.9 32.2 48.4

55 28.9 19.6 29.4

61 21.2 18.6 28.0





#75

1,1,2,2-Tetrachloroethane

Concen: 3.048 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

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

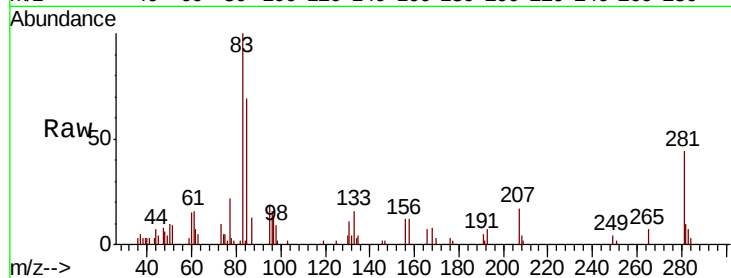
Tot Ion: 83 Resp: 17231

Ion Ratio Lower Upper

83 100

131 10.4 4.8 14.4

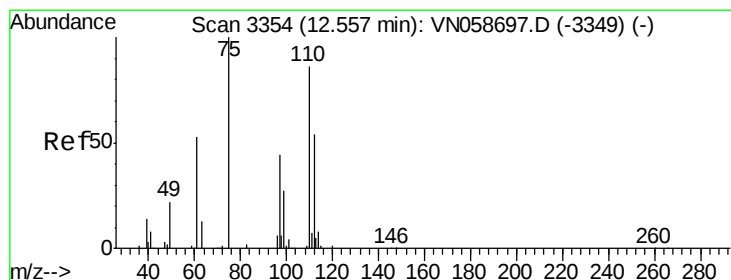
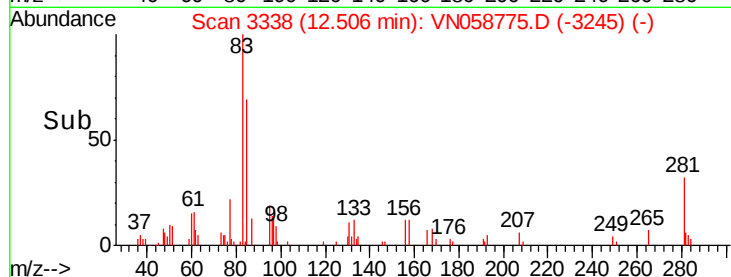
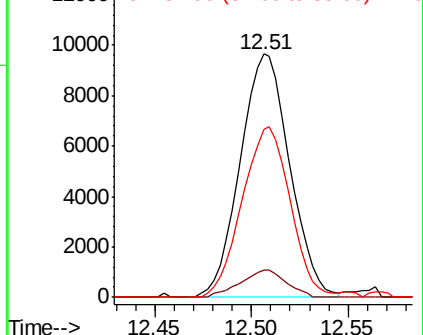
85 67.6 31.9 95.5



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: 4.301 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN058775.D

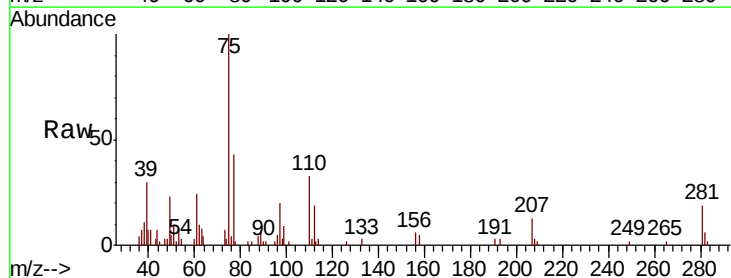
Acq: 15 Oct 2019 12:36

Tgt Ion: 75 Resp: 22360

Ion Ratio Lower Upper

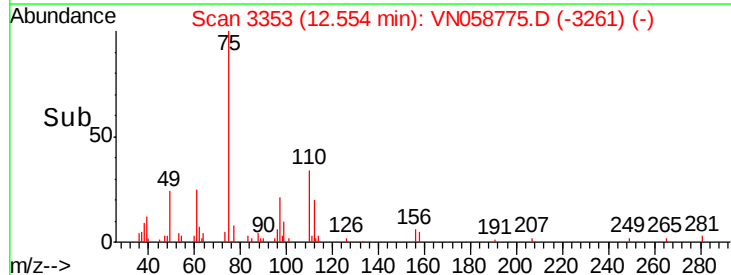
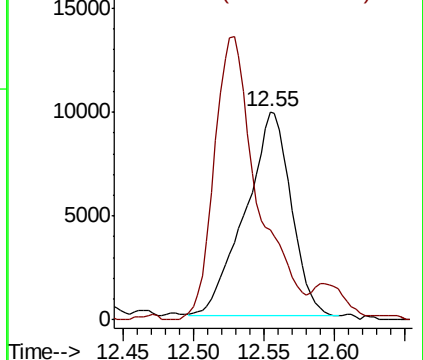
75 100

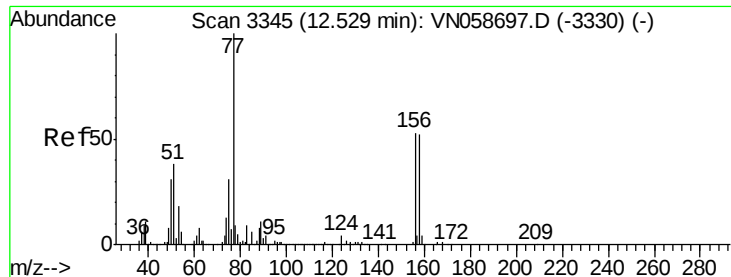
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 2.975 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

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

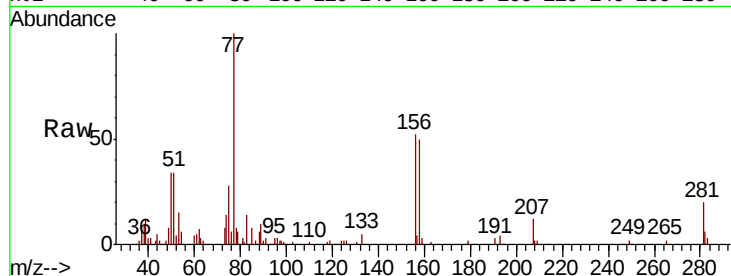
Tot Ion:156 Resp: 12418

Ion Ratio Lower Upper

156 100

77 236.6 115.8 347.3

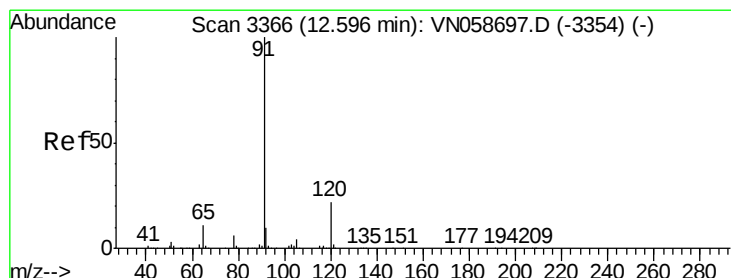
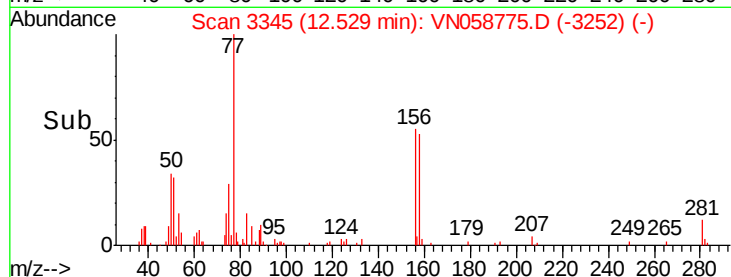
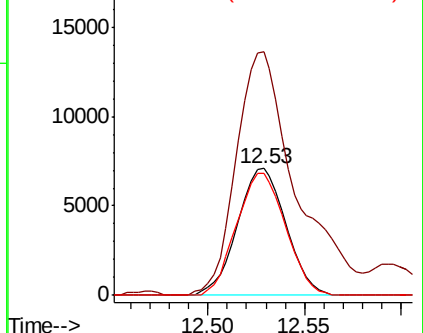
158 96.9 48.9 146.6



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 2.767 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. -0.00 min

Lab File: VN058775.D

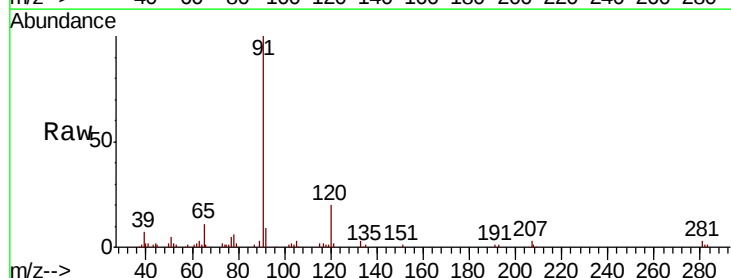
Acq: 15 Oct 2019 12:36

Tgt Ion: 91 Resp: 55334

Ion Ratio Lower Upper

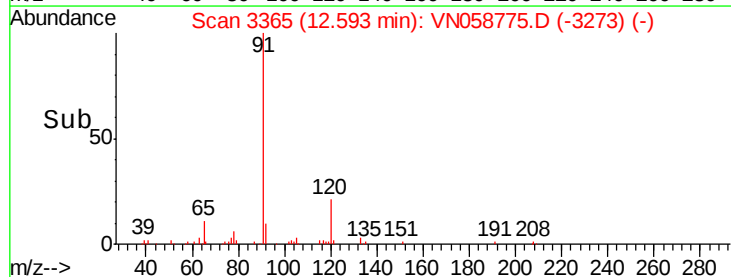
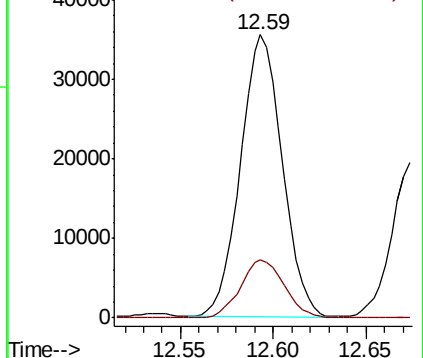
91 100

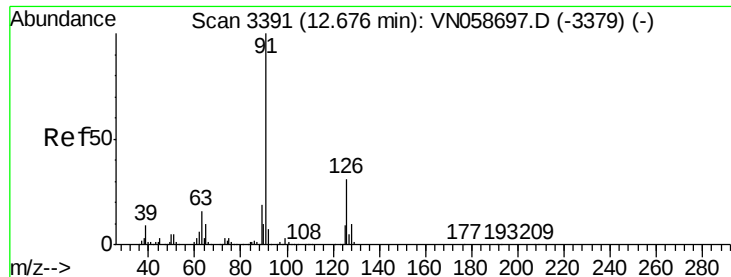
120 21.4 11.1 33.3



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 2.829 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

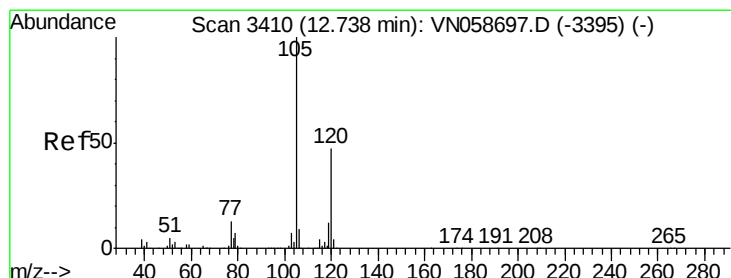
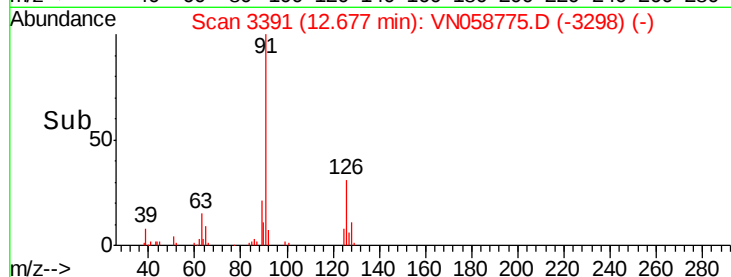
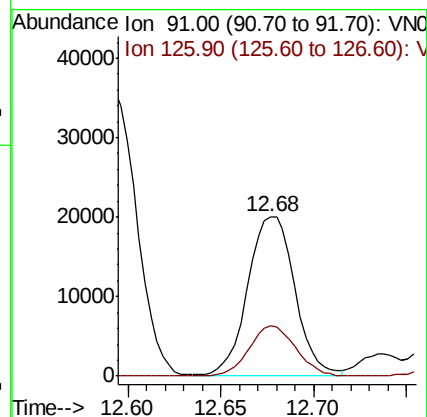
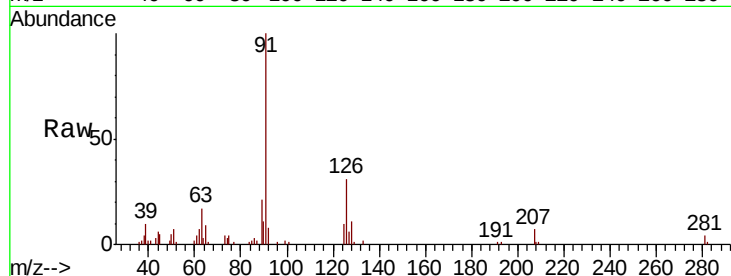
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 91 Resp: 35115

Ion Ratio Lower Upper

91 100

126 31.4 16.2 48.5



#80

1,3,5-Trimethylbenzene

Concen: 2.675 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN058775.D

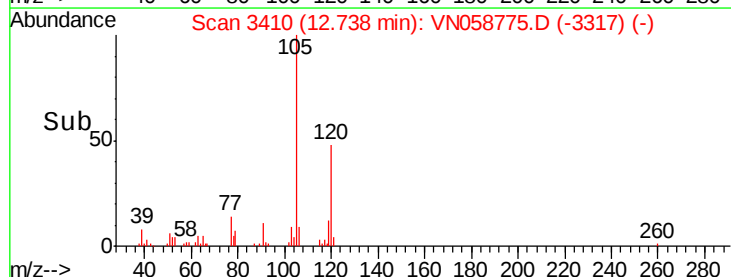
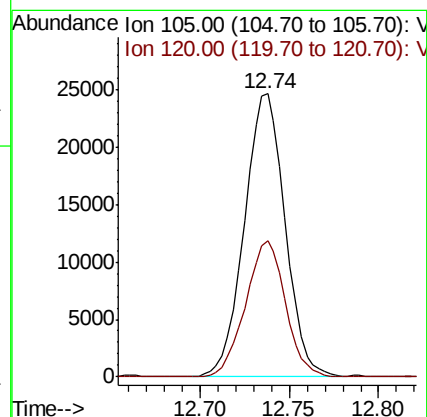
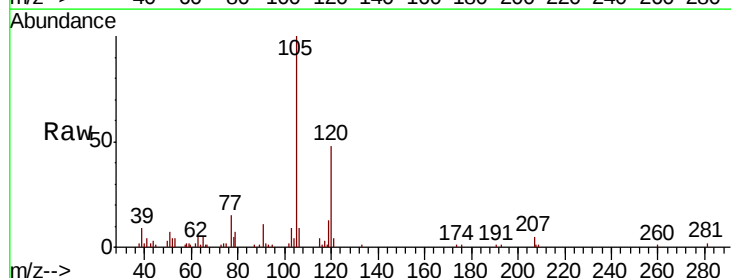
Acq: 15 Oct 2019 12:36

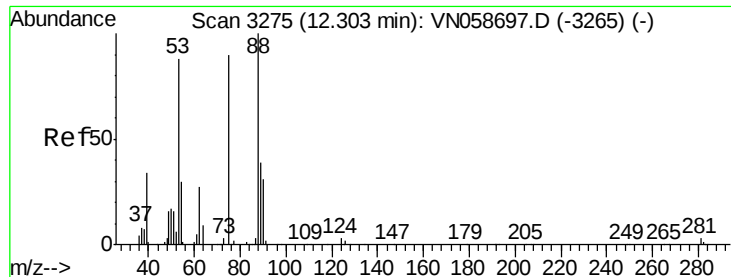
Tgt Ion: 105 Resp: 39189

Ion Ratio Lower Upper

105 100

120 47.1 23.4 70.2





#81

trans-1,4-Dichloro-2-butene

Concen: 2.780 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

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

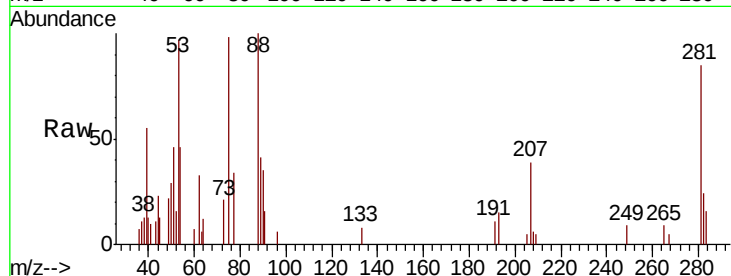
Tot Ion: 75 Resp: 5396

Ion Ratio Lower Upper

75 100

53 98.5 78.4 117.6

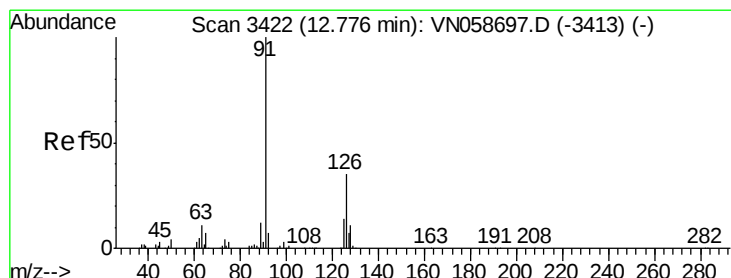
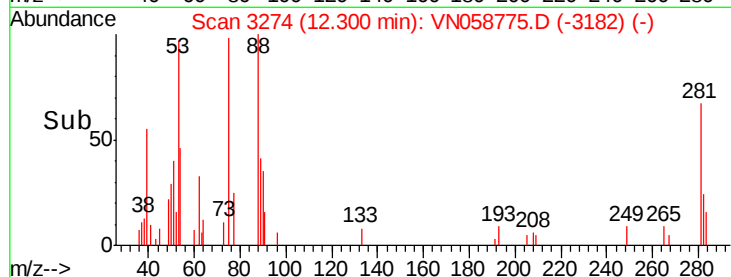
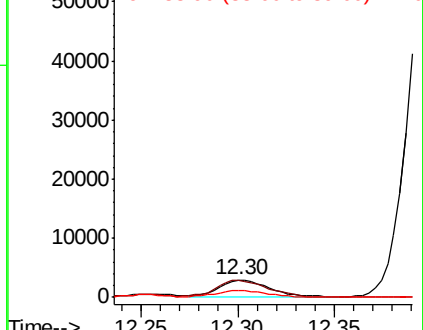
89 39.5 34.9 52.3



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: 2.616 ug/l

RT: 12.78 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN058775.D

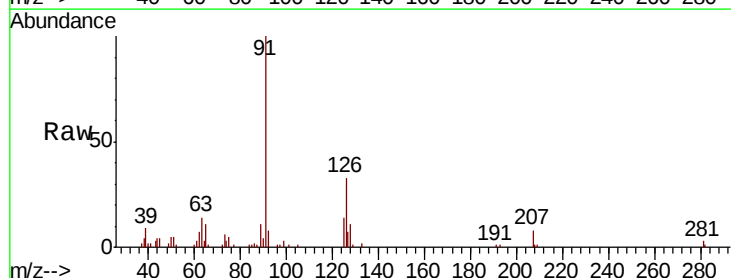
Acq: 15 Oct 2019 12:36

Tgt Ion: 91 Resp: 33328

Ion Ratio Lower Upper

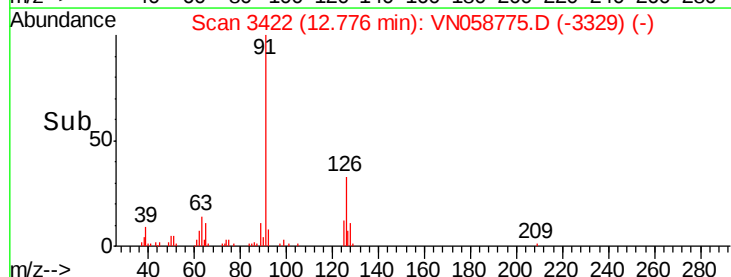
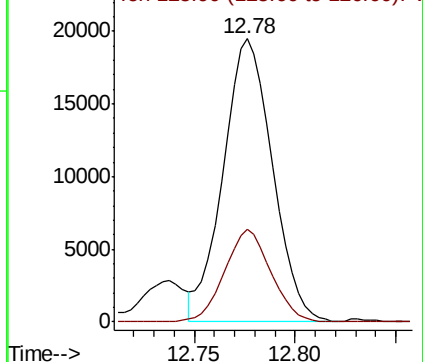
91 100

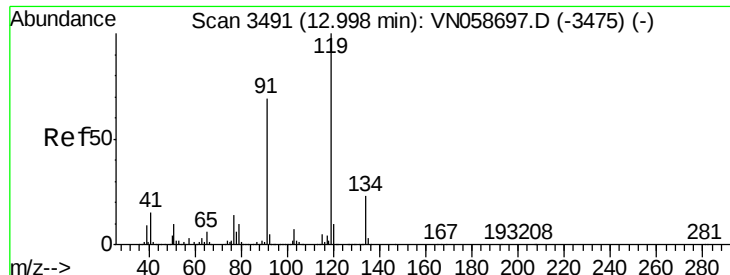
126 30.6 15.9 47.6



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

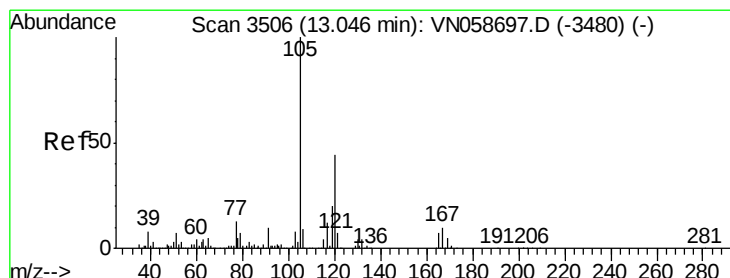
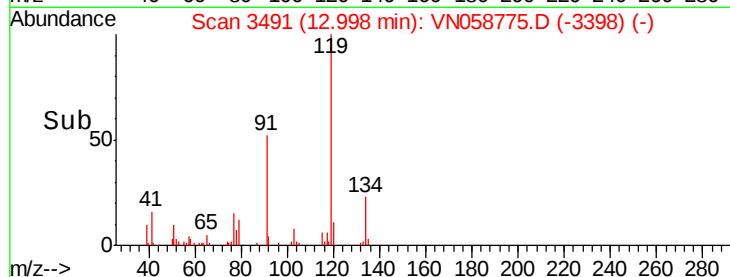
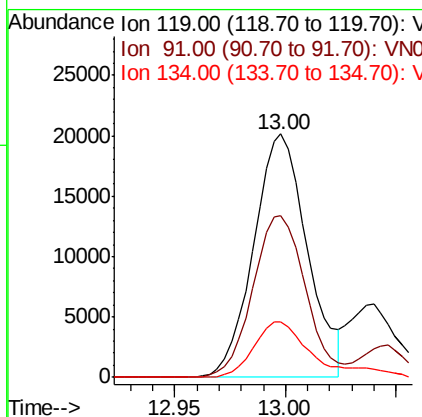
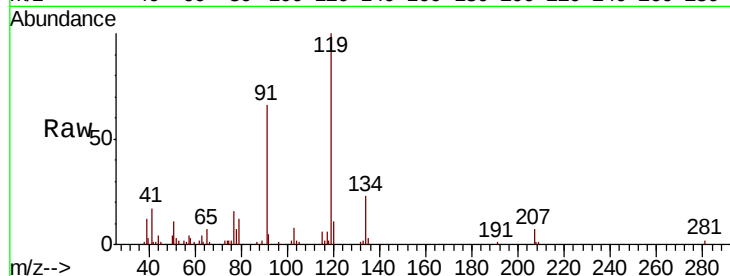




#83
tert-Butylbenzene
Concen: 2.707 ug/l
RT: 13.00 min Scan# 3491
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

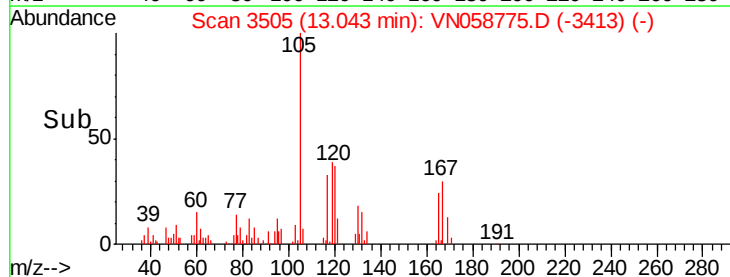
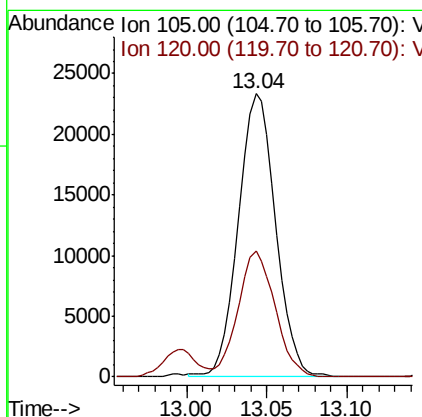
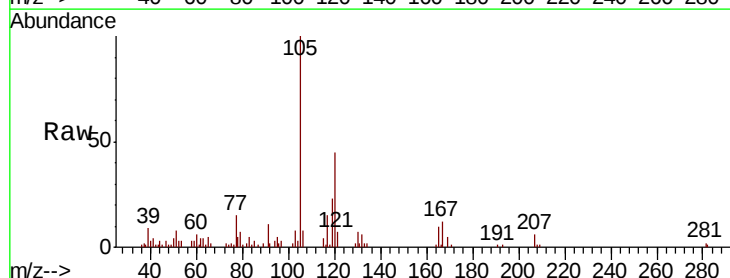
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

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



#84
1,2,4-Trimethylbenzene
Concen: 2.542 ug/l
RT: 13.04 min Scan# 3505
Delta R.T. -0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

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





#85

sec-Butylbenzene

Concen: 2.586 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. -0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

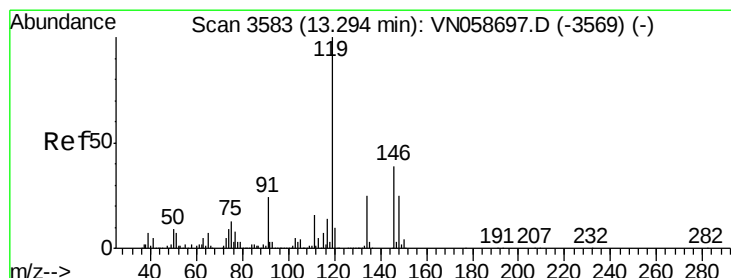
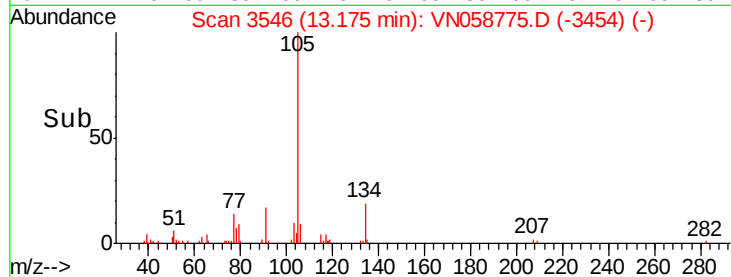
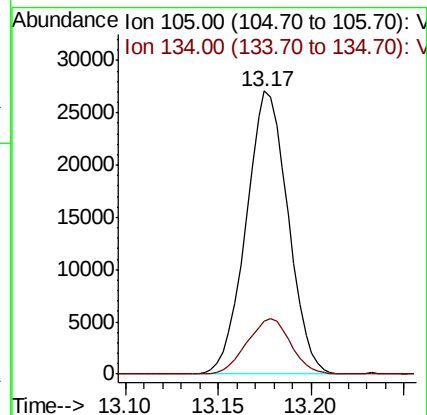
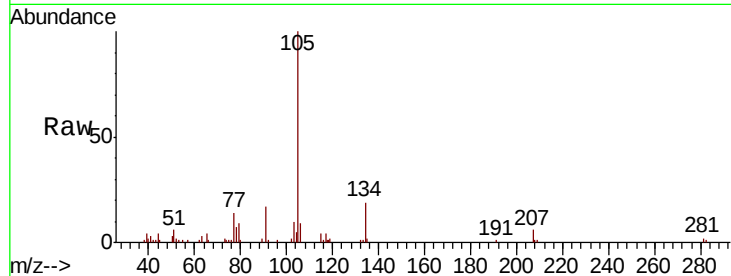
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:105 Resp: 42771

Ion Ratio Lower Upper

105 100

134 20.2 9.7 29.1



#86

p-Isopropyltoluene

Concen: 2.432 ug/l

RT: 13.29 min Scan# 3583

Delta R.T. 0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

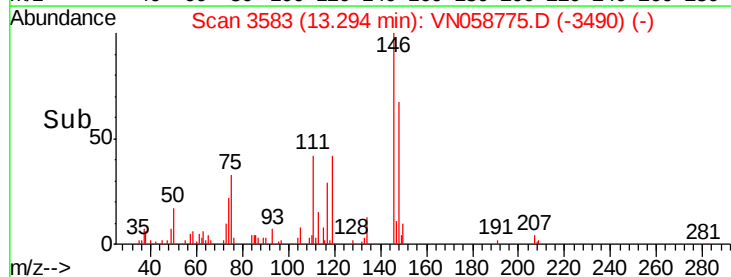
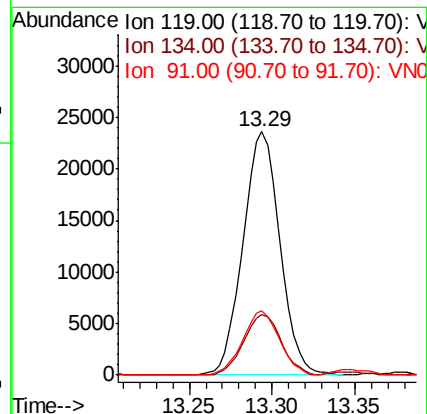
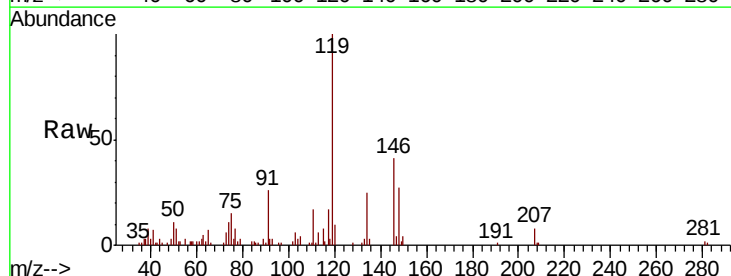
Tgt Ion:119 Resp: 36565

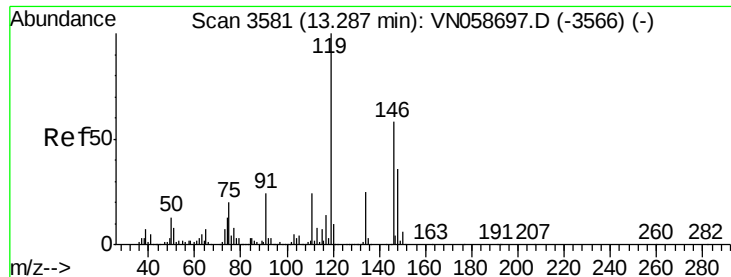
Ion Ratio Lower Upper

119 100

134 25.3 12.7 38.1

91 26.2 11.9 35.5





#87

1,3-Dichlorobenzene

Concen: 2.715 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

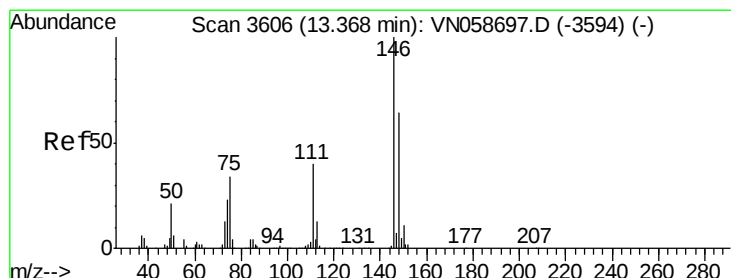
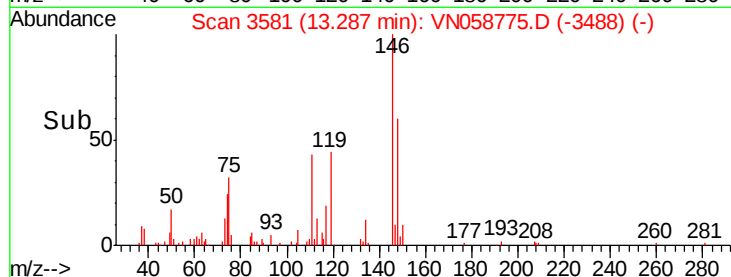
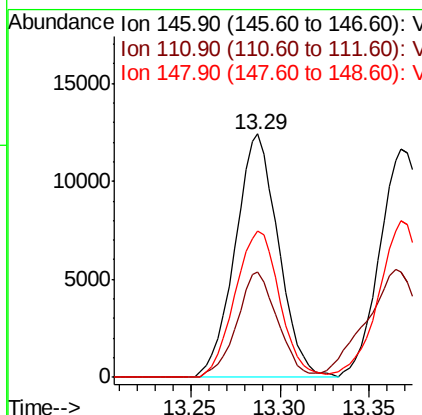
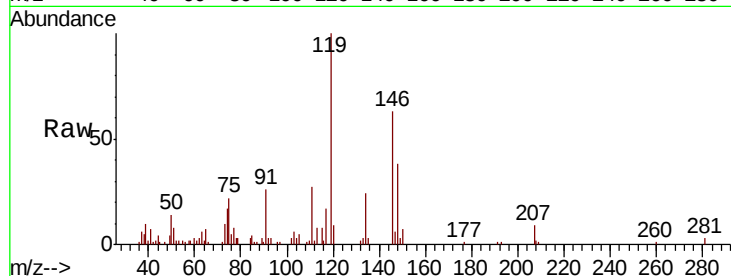
Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

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

Tot Ion:146 Resp: 20900

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



#88

1,4-Dichlorobenzene

Concen: 2.574 ug/l

RT: 13.37 min Scan# 3606

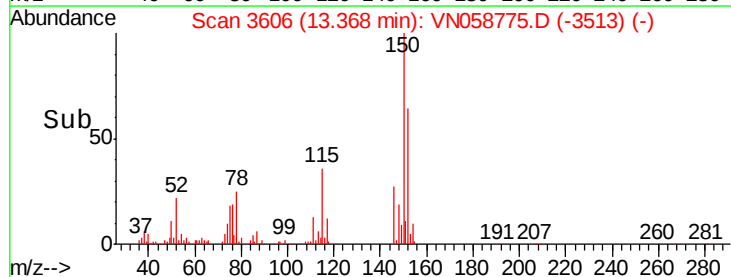
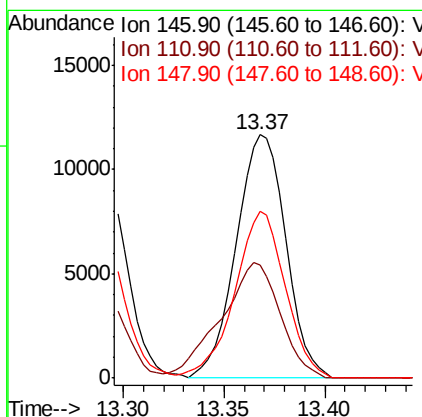
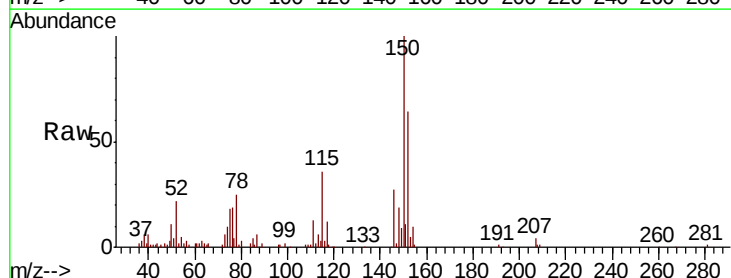
Delta R.T. 0.00 min

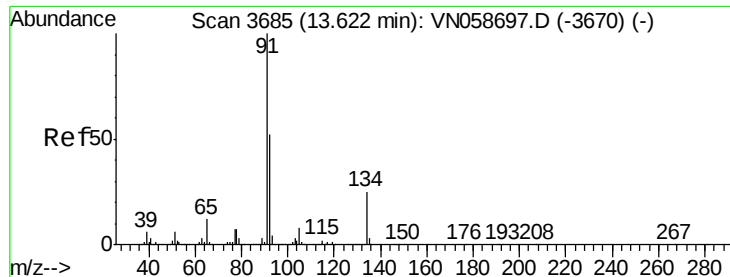
Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Tgt Ion:146 Resp: 20146

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





#89

n-Butylbenzene

Concen: 2.382 ug/l

RT: 13.62 min Scan# 3684

Delta R.T. -0.00 min

Lab File: VN058775.D

Acq: 15 Oct 2019 12:36

Instrument :

MSVOA_N

ClientSampleId :

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

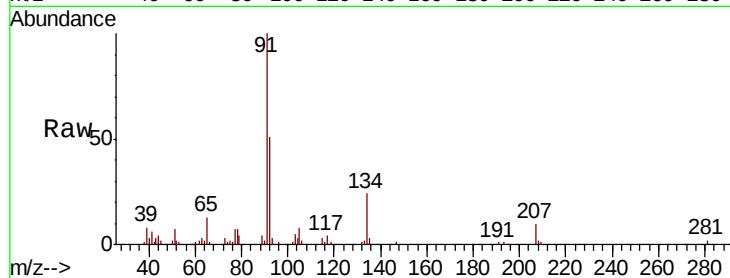
Tot Ion: 91 Resp: 33113

Ion Ratio Lower Upper

91 100

92 48.0 26.0 78.0

134 23.9 12.2 36.6

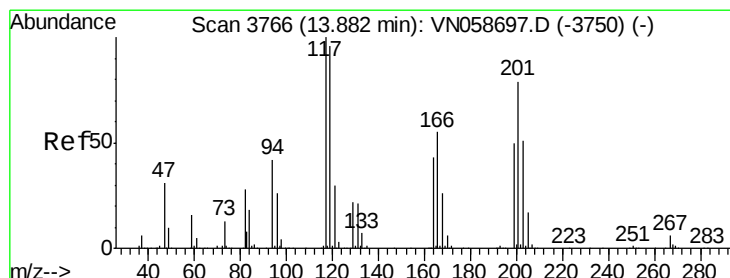
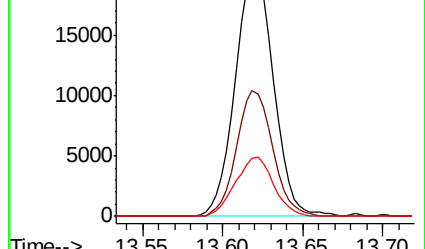
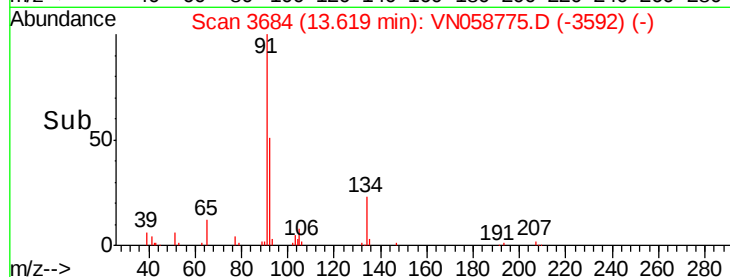


Abundance Ion 91.00 (90.70 to 91.70): VN058697.D (-3670) (-)

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: 2.823 ug/l

RT: 13.88 min Scan# 3765

Delta R.T. -0.00 min

Lab File: VN058775.D

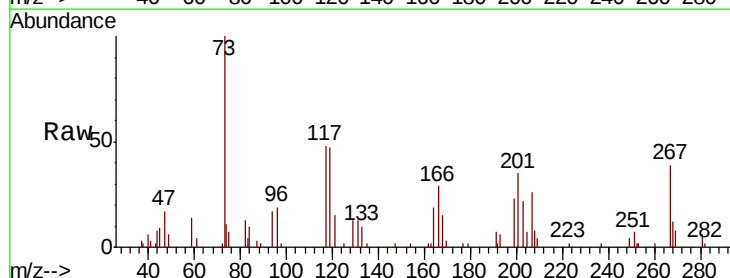
Acq: 15 Oct 2019 12:36

Tgt Ion: 117 Resp: 7593

Ion Ratio Lower Upper

117 100

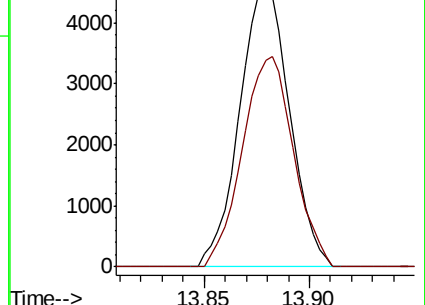
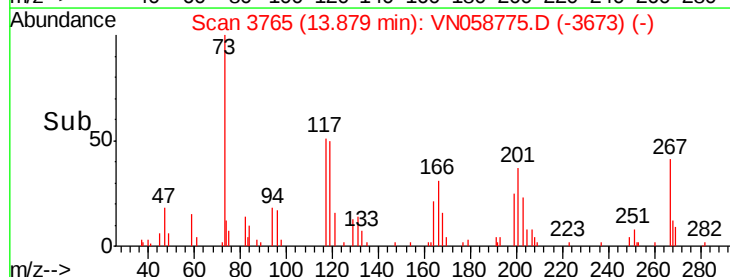
201 76.4 39.6 118.7

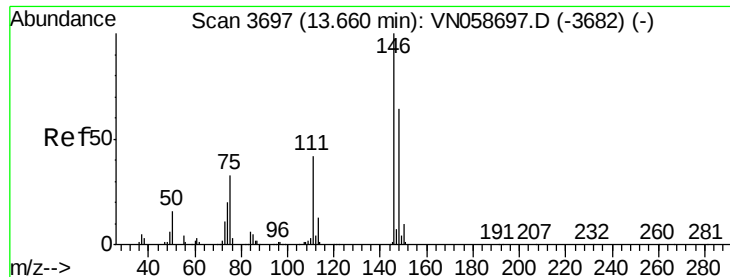


Abundance Ion 116.80 (116.50 to 117.50): VN058697.D (-3750) (-)

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

Time-->

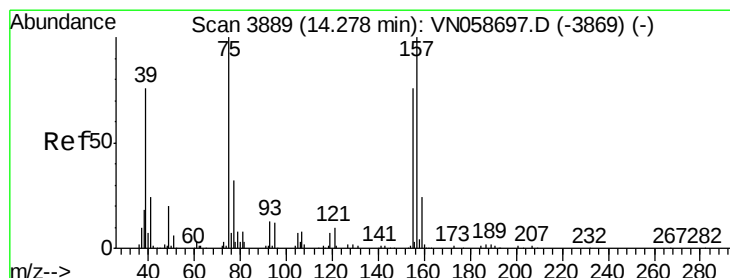
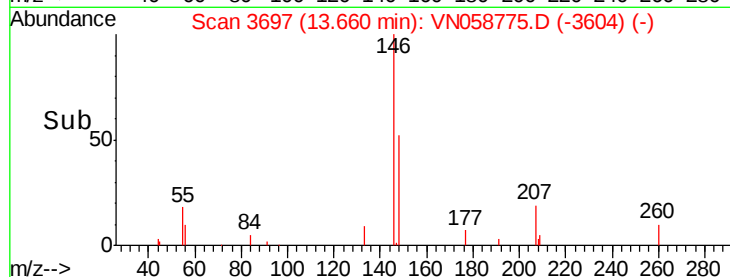
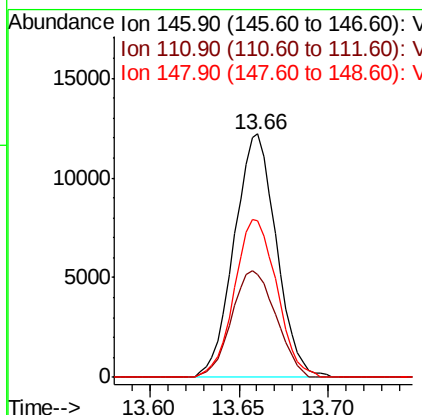
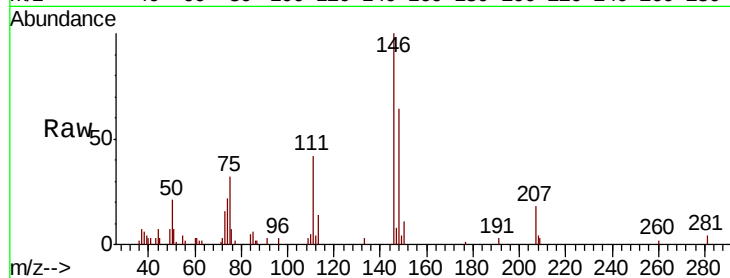




#91
 1,2-Dichlorobenzene
 Concen: 2.678 ug/l
 RT: 13.66 min Scan# 3697
 Delta R.T. 0.00 min
 Lab File: VN058775.D
 Acq: 15 Oct 2019 12:36

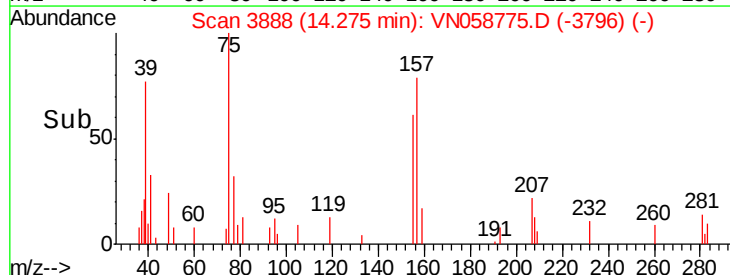
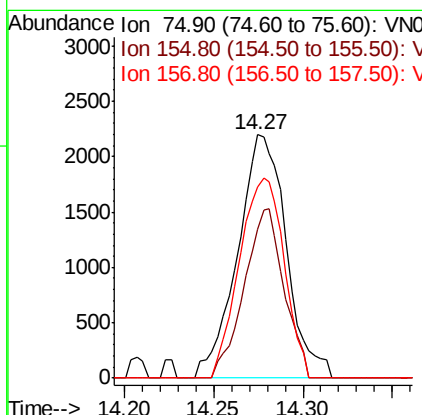
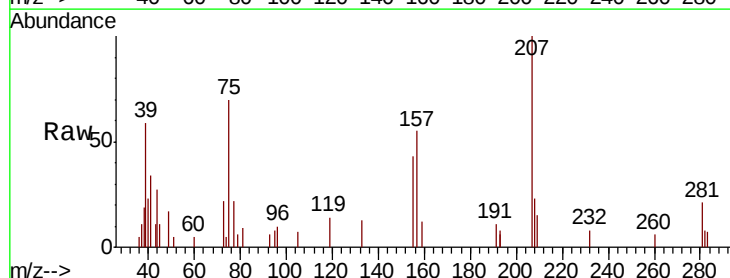
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

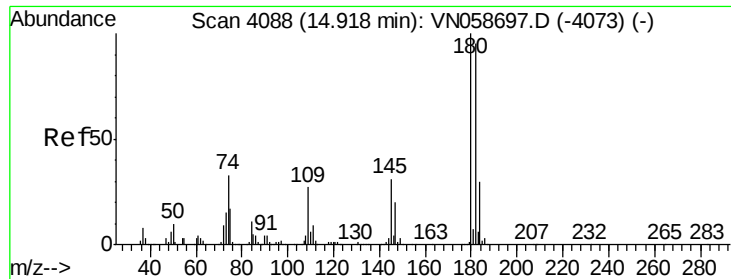
Tot Ion	Ratio	Lower	Upper
146	100		
111	46.0	21.1	63.4
148	65.2	31.8	95.3



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

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

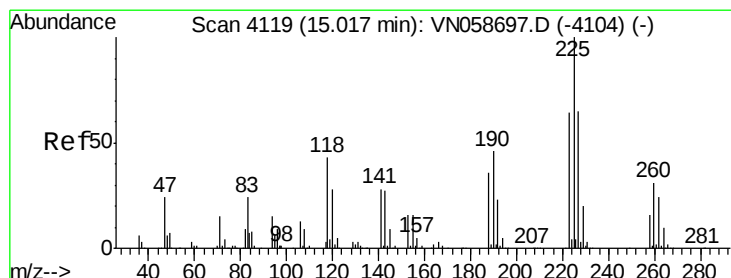
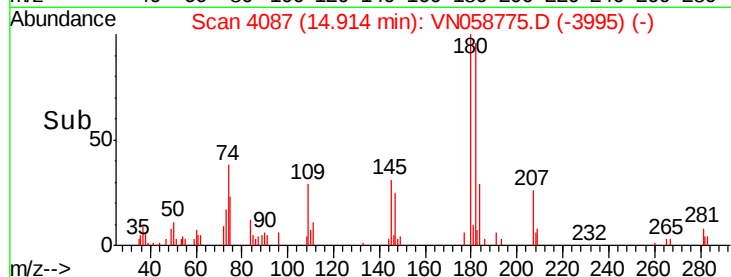
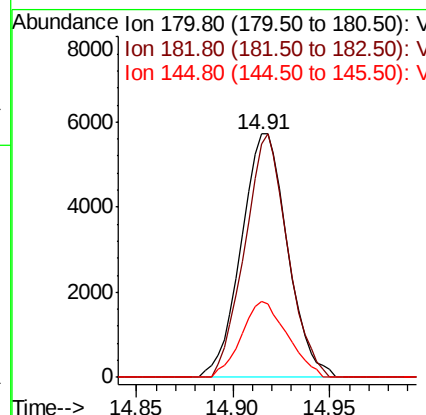
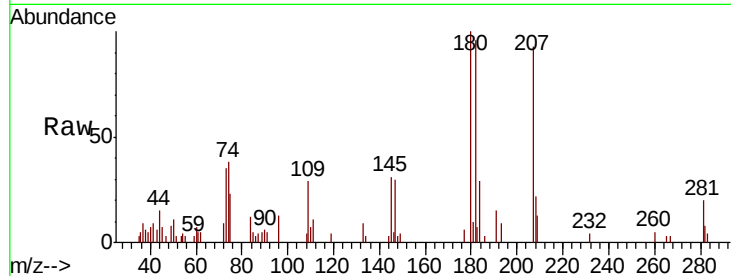




#93
 1,2,4-Trichlorobenzene
 Concen: 2.076 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. -0.00 min
 Lab File: VN058775.D
 Acq: 15 Oct 2019 12:36

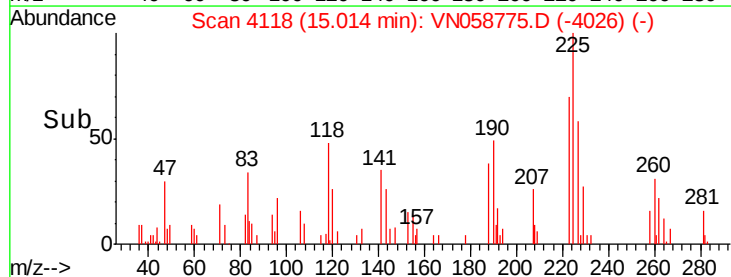
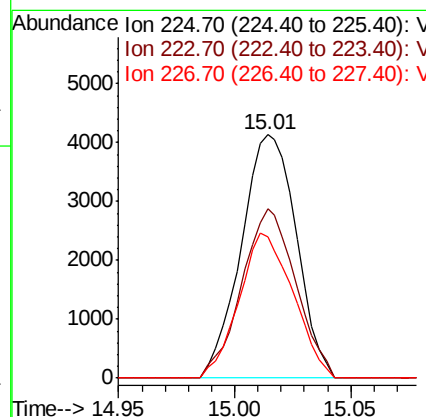
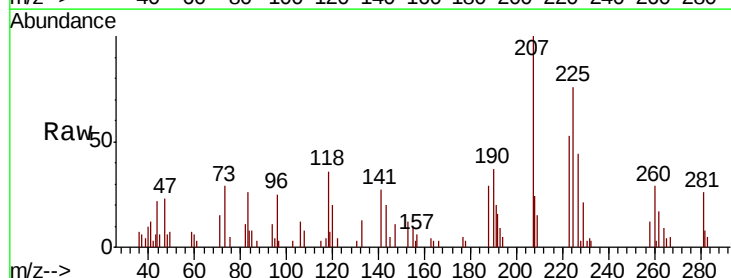
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

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



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

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

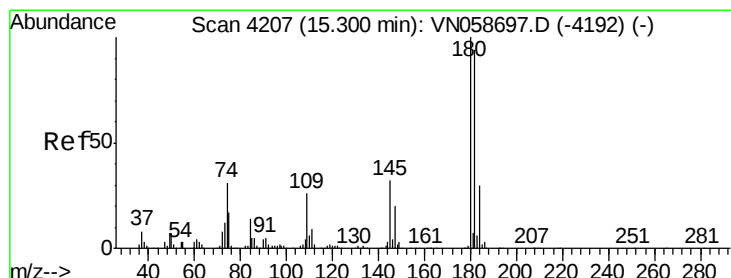
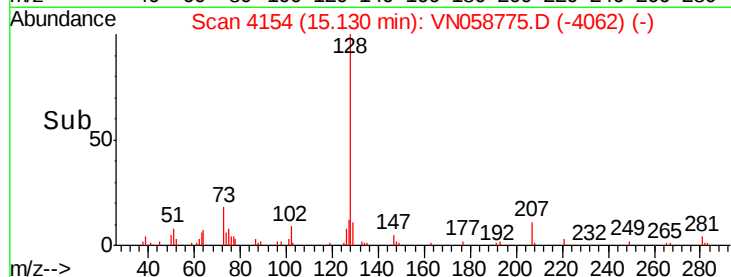
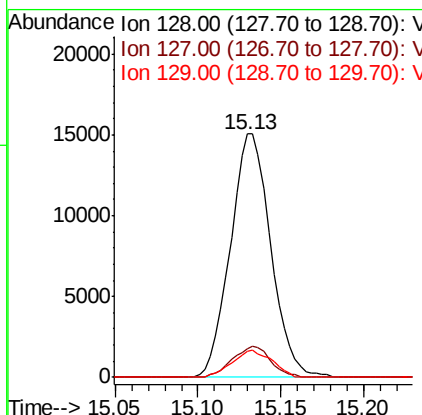
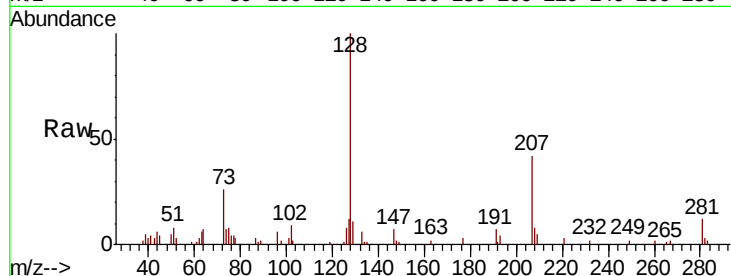




#95
Naphthalene
Concen: 1.938 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. -0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

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

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



#96
1,2,3-Trichlorobenzene
Concen: 2.129 ug/l
RT: 15.30 min Scan# 4207
Delta R.T. 0.00 min
Lab File: VN058775.D
Acq: 15 Oct 2019 12:36

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

