

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101319\
 Data File : VN058703.D
 Acq On : 11 Oct 2019 15:14
 Operator : JC/SP
 Sample : K5111-08 0.5PPB LOD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

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

Quant Time: Oct 12 00:08:19 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	431313	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	708725	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	632185	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	270865	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	307729	50.96	ug/l	0.00
Spiked Amount			Recovery	=	101.92%	
35) Dibromofluoromethane	7.57	113	217344	49.65	ug/l	0.00
Spiked Amount			Recovery	=	99.30%	
50) Toluene-d8	10.08	98	824758	47.11	ug/l	0.00
Spiked Amount			Recovery	=	94.22%	
62) 4-Bromofluorobenzene	12.40	95	291170	43.94	ug/l	0.00
Spiked Amount			Recovery	=	87.88%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.84	85	2451	0.456	ug/l	100
3) Chloromethane	2.04	50	3514	0.550	ug/l #	84
4) Vinyl Chloride	2.17	62	3259	0.512	ug/l	98
5) Bromomethane	2.55	94	2910	0.752	ug/l #	79
6) Chloroethane	2.69	64	1792	0.457	ug/l #	83
7) Trichlorofluoromethane	3.00	101	3999	0.525	ug/l	85
8) Diethyl Ether	3.40	74	1236	0.439	ug/l	63
9) 1,1,2-Trichlorotrifluoroet	3.74	101	2262	0.521	ug/l #	76
10) Methyl Iodide	3.93	142	2368	0.400	ug/l #	94
11) Tert butyl alcohol	4.76	59	1650	1.687	ug/l	96
12) 1,1-Dichloroethene	3.71	96	1096	0.265	ug/l	83
13) Acrolein	3.59	56	2423	3.081	ug/l #	58
15) Acrylonitrile	4.97	53	5357	2.172	ug/l #	76
16) Acetone	3.80	43	7434	2.974	ug/l #	67
17) Carbon Disulfide	4.03	76	8366	0.632	ug/l	98
18) Methyl Acetate	4.31	43	3622	0.571	ug/l #	73
19) Methyl tert-butyl Ether	5.02	73	7507	0.508	ug/l #	91
20) Methylene Chloride	4.53	84	2024	0.387	ug/l	95
21) trans-1,2-Dichloroethene	5.01	96	1269	0.274	ug/l #	49
22) Diisopropyl ether	5.92	45	7004	0.431	ug/l #	60
23) Vinyl Acetate	5.88	43	30546	2.329	ug/l	98
24) 1,1-Dichloroethane	5.82	63	4684	0.506	ug/l #	85
25) 2-Butanone	6.82	43	9588	2.654	ug/l	95
26) 2,2-Dichloropropane	6.80	77	5314	0.629	ug/l #	72
27) cis-1,2-Dichloroethene	6.80	96	1710	0.316	ug/l	1
28) Bromochloromethane	7.17	49	1854	0.576	ug/l #	73
29) Tetrahydrofuran	7.19	42	6135	2.627	ug/l	92
30) Chloroform	7.36	83	5578	0.600	ug/l	96
31) Cyclohexane	7.64	56	14260	1.610	ug/l #	28
32) 1,1,1-Trichloroethane	7.55	97	3968	0.500	ug/l #	53
36) 1,1-Dichloropropene	7.77	75	3605	0.503	ug/l	93
37) Ethyl Acetate	6.92	43	3714	0.512	ug/l #	86
38) Carbon Tetrachloride	7.75	117	3557	0.509	ug/l	98
39) Methylcyclohexane	9.07	83	3557	0.428	ug/l	97

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Benzene	8.02	78	10142	0.493	ug/l	99
41) Methacrylonitrile	7.15	41	1733	0.511	ug/l #	8
42) 1,2-Dichloroethane	8.11	62	4194	0.530	ug/l	94
43) Isopropyl Acetate	8.15	43	5853	0.474	ug/l #	88
44) Trichloroethene	8.82	130	2616	0.512	ug/l	81
45) 1,2-Dichloropropane	9.11	63	2683	0.487	ug/l	97
46) Dibromomethane	9.20	93	1858	0.532	ug/l	93
47) Bromodichloromethane	9.39	83	3295	0.463	ug/l #	89
48) Methyl methacrylate	9.19	41	2817	0.503	ug/l #	71
49) 1,4-Dioxane	9.19	88	906	10.465	ug/l #	75
51) 4-Methyl-2-Pentanone	9.98	43	15934	2.298	ug/l	94
52) Toluene	10.15	92	6414	0.510	ug/l	96
53) t-1,3-Dichloropropene	10.38	75	3610	0.443	ug/l #	1
54) cis-1,3-Dichloropropene	9.83	75	4100	0.473	ug/l	92
55) 1,1,2-Trichloroethane	10.56	97	3094	0.601	ug/l	92
56) Ethyl methacrylate	10.43	69	2970	0.395	ug/l #	82
57) 1,3-Dichloropropane	10.70	76	4343	0.495	ug/l	89
58) 2-Chloroethyl Vinyl ether	9.69	63	8125	2.240	ug/l	97
59) 2-Hexanone	10.75	43	12776	2.384	ug/l	99
60) Dibromochloromethane	10.90	129	2571	0.484	ug/l	81
61) 1,2-Dibromoethane	11.01	107	2327	0.451	ug/l	98
64) Tetrachloroethene	10.63	164	2838	0.641	ug/l #	83
65) Chlorobenzene	11.43	112	6330	0.493	ug/l	91
66) 1,1,1,2-Tetrachloroethane	11.51	131	2130	0.449	ug/l #	44
67) Ethyl Benzene	11.51	91	11457	0.501	ug/l	94
68) m/p-Xylenes	11.62	106	8009	0.933	ug/l	99
69) o-Xylene	11.95	106	3975	0.478	ug/l	90
70) Stvrene	11.97	104	5916	0.434	ug/l	93
71) Bromoform	12.13	173	1315	0.378	ug/l #	99
73) Isopropylbenzene	12.25	105	10296	0.525	ug/l	94
74) N-amyl acetate	12.07	43	3951	0.448	ug/l #	93
75) 1,1,2,2-Tetrachloroethane	12.51	83	3476	0.538	ug/l	99
76) 1,2,3-Trichloropropane	12.56	75	5932	0.998	ug/l #	100
77) Bromobenzene	12.53	156	2352	0.493	ug/l	93
78) n-propylbenzene	12.60	91	12717	0.556	ug/l	100
79) 2-Chlorotoluene	12.68	91	8125	0.573	ug/l	98
80) 1,3,5-Trimethylbenzene	12.74	105	8473	0.506	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	155095	69.916	ug/l #	11
82) 4-Chlorotoluene	12.78	91	7243	0.497	ug/l	99
83) tert-Butylbenzene	13.00	119	7677	0.535	ug/l	95
84) 1,2,4-Trimethylbenzene	13.05	105	8516	0.512	ug/l	90
85) sec-Butylbenzene	13.18	105	9173	0.485	ug/l	98
86) p-Isopropyltoluene	13.29	119	8996	0.524	ug/l	97
87) 1,3-Dichlorobenzene	13.29	146	4786	0.544	ug/l	97
88) 1,4-Dichlorobenzene	13.29	146	4786	0.535	ug/l	98
89) n-Butylbenzene	13.62	91	7404	0.466	ug/l	96
90) Hexachloroethane	13.88	117	1734	0.564	ug/l	89
91) 1,2-Dichlorobenzene	13.66	146	4481	0.522	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	14.28	75	1446	0.958	ug/l #	44
93) 1,2,4-Trichlorobenzene	14.92	180	2881	0.551	ug/l	94

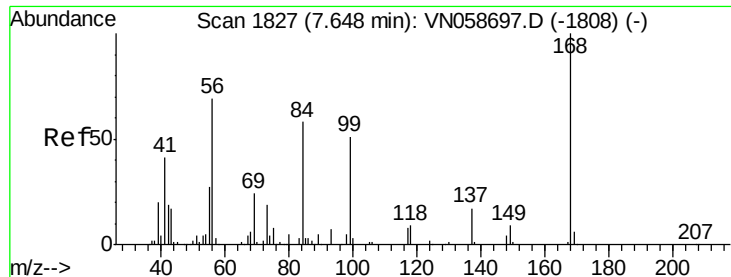
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Quant Title : SW846 8260
QLast Update : Sat Oct 12 00:00:30 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	15.02	225	1333	0.484	ug/l	88
95) Naphthalene	15.13	128	8347	0.555	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	2805	0.549	ug/l	98

(#) = 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: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

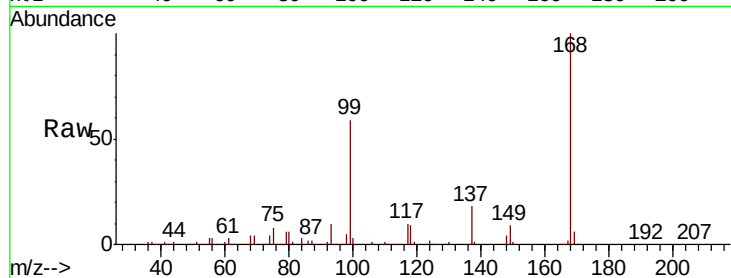
LOQ-WATER-02-QT4-2019

Tot Ion:168 Resp: 431313

Ion Ratio Lower Upper

168 100

99 58.7 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

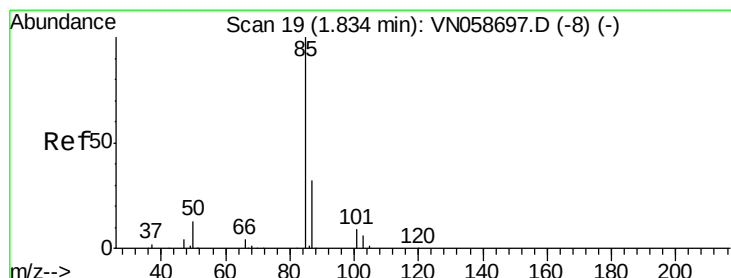
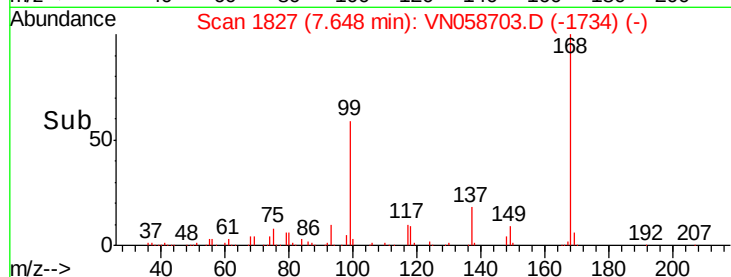
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.456 ug/l

RT: 1.84 min Scan# 20

Delta R.T. 0.00 min

Lab File: VN058703.D

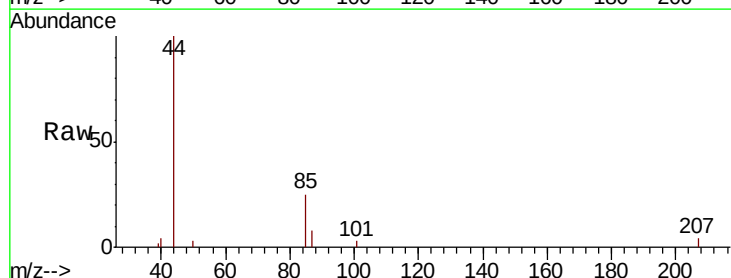
Acq: 11 Oct 2019 15:14

Tgt Ion: 85 Resp: 2451

Ion Ratio Lower Upper

85 100

87 32.2 16.2 48.6



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

2000

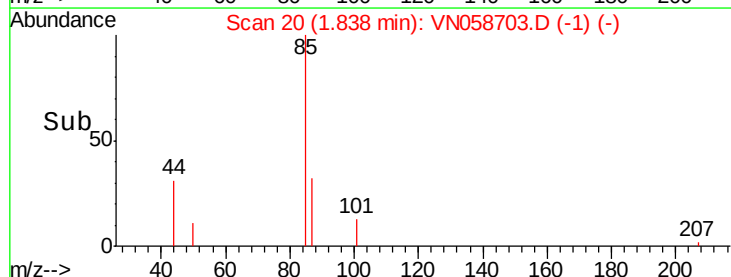
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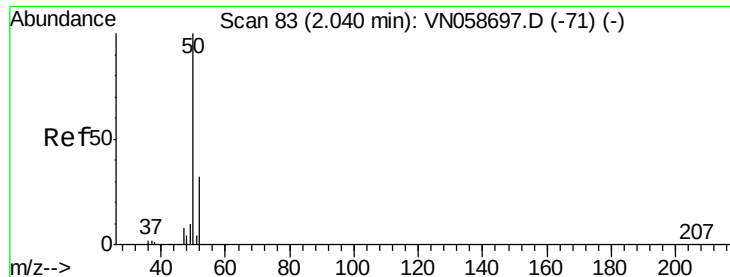
1000

500

0

Time-->





#3

Chloromethane

Concen: 0.550 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

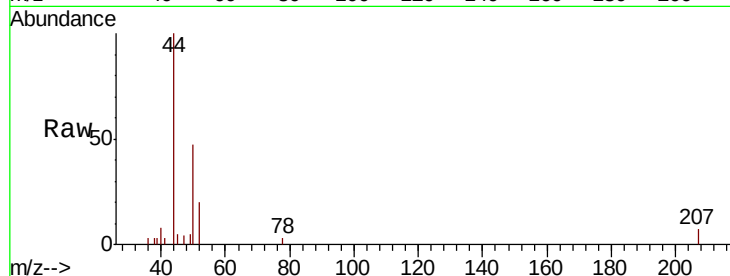
LOQ-WATER-02-QT4-2019

Tot Ion: 50 Resp: 3514

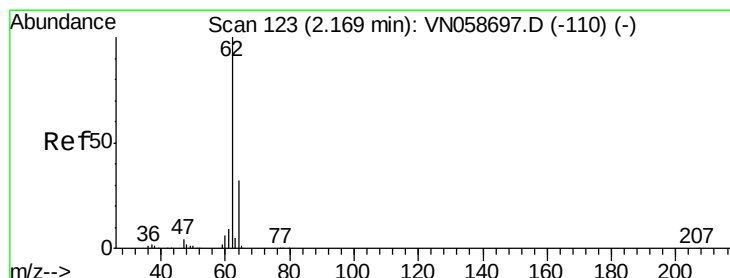
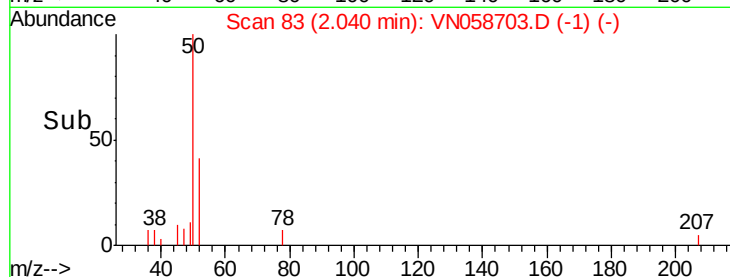
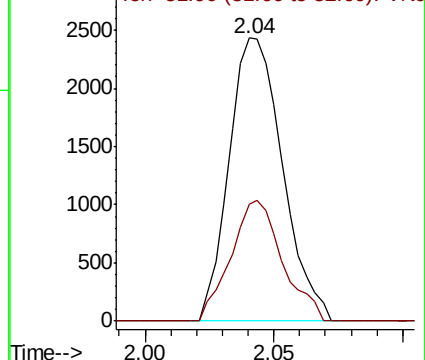
Ion Ratio Lower Upper

50 100

52 41.4 25.8 38.6#



Abundance Ion 49.90 (49.60 to 50.60): VNO
Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 0.512 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058703.D

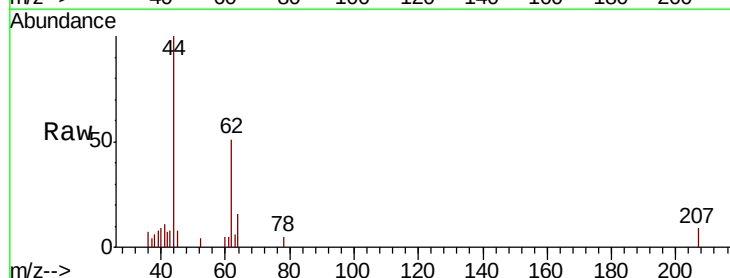
Acq: 11 Oct 2019 15:14

Tgt Ion: 62 Resp: 3259

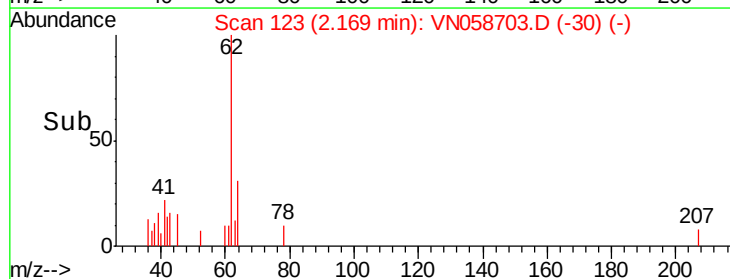
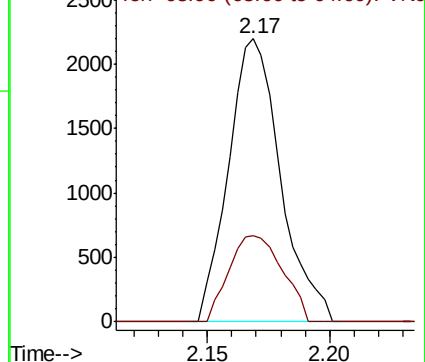
Ion Ratio Lower Upper

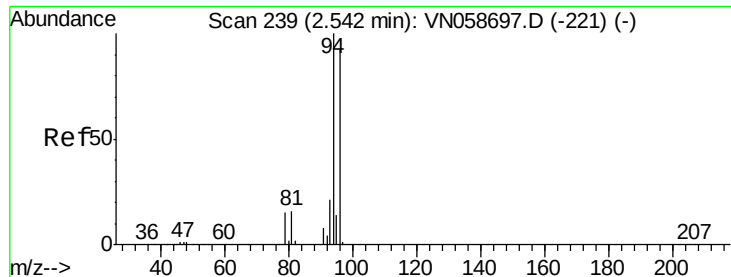
62 100

64 30.7 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VNO
Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 0.752 ug/l

RT: 2.55 min Scan# 242

Delta R.T. 0.01 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

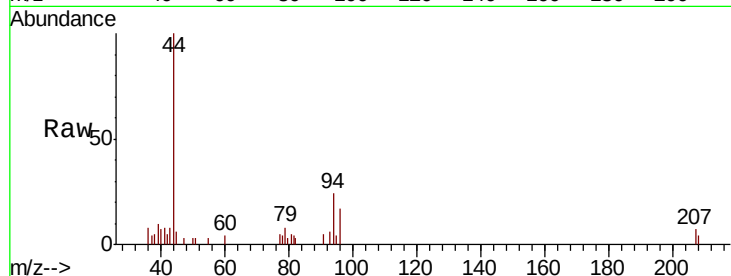
LOQ-WATER-02-QT4-2019

Tot Ion: 94 Resp: 2910

Ion Ratio Lower Upper

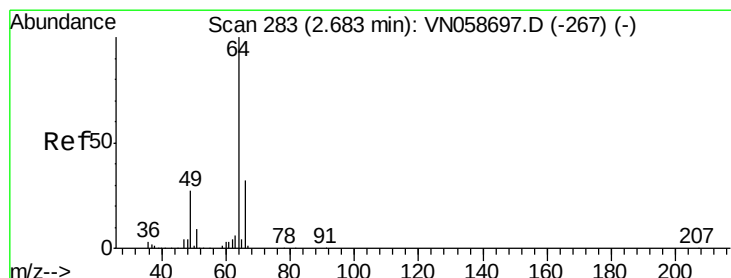
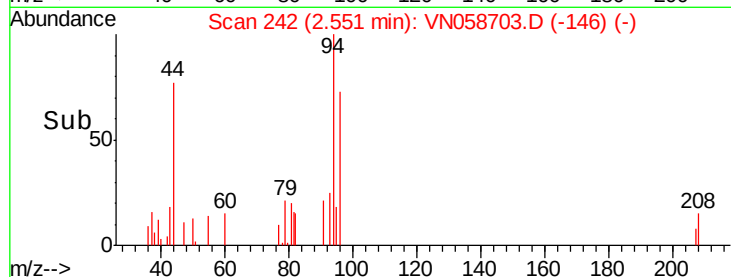
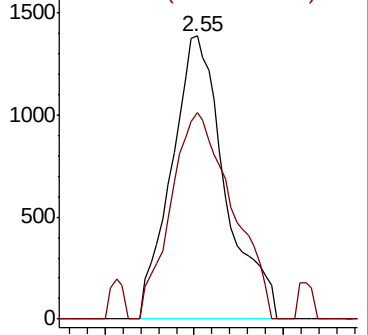
94 100

96 72.8 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 0.457 ug/l

RT: 2.69 min Scan# 284

Delta R.T. 0.00 min

Lab File: VN058703.D

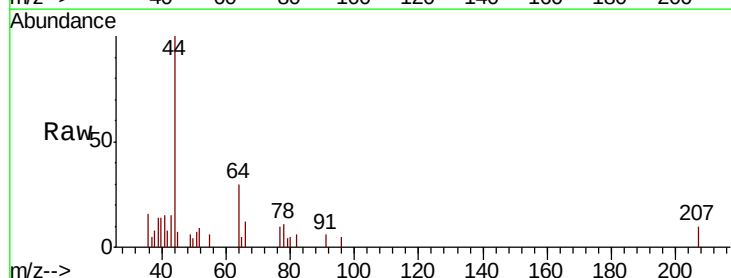
Acq: 11 Oct 2019 15:14

Tgt Ion: 64 Resp: 1792

Ion Ratio Lower Upper

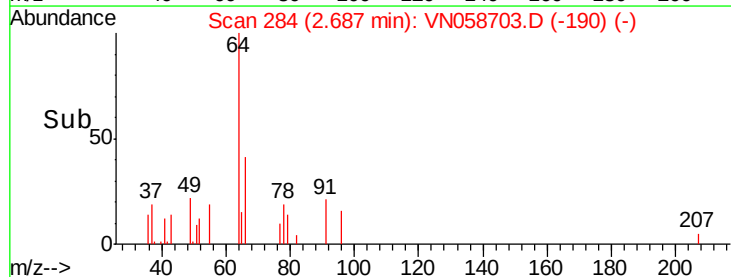
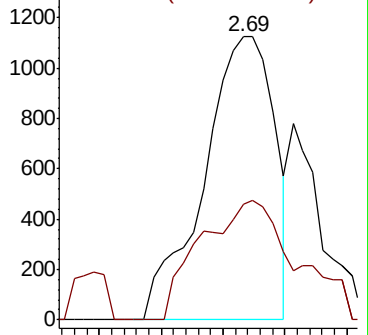
64 100

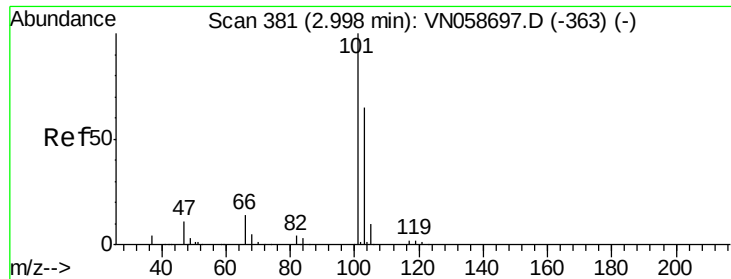
66 41.0 25.4 38.2#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



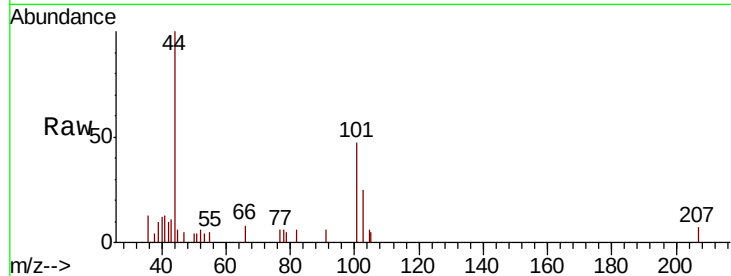


#7

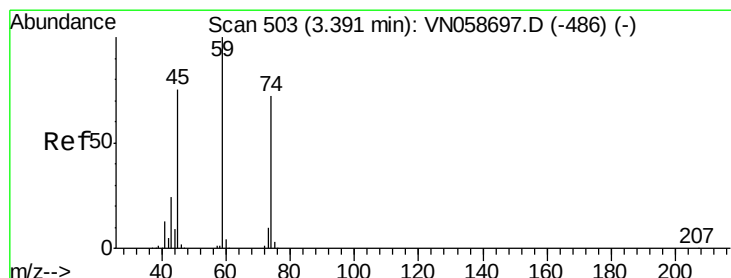
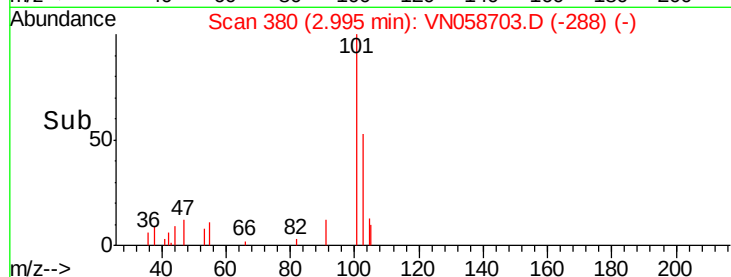
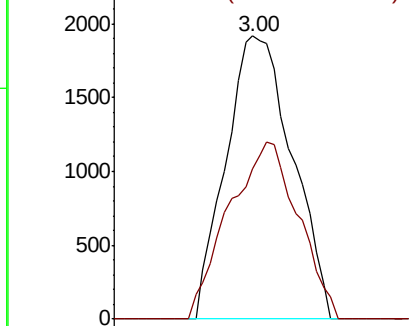
Trichlorofluoromethane
 Concen: 0.525 ug/l
 RT: 3.00 min Scan# 380
 Delta R.T. -0.00 min
 Lab File: VN058703.D
 Acq: 11 Oct 2019 15:14

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 LOQ-WATER-02-QT4-2019

Tot Ion:101 Resp: 3999
 Ion Ratio Lower Upper
 101 100
 103 52.8 51.8 77.6



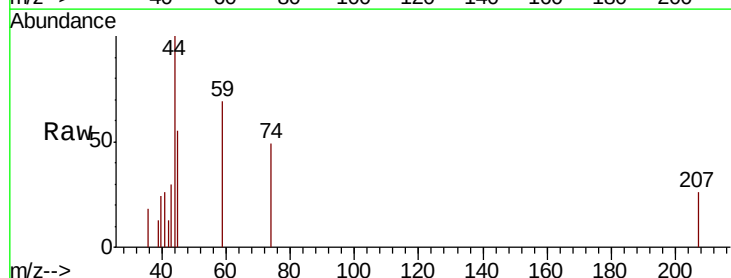
Abundance Ion 100.90 (100.60 to 101.60): V
 Ion 102.80 (102.50 to 103.50): V



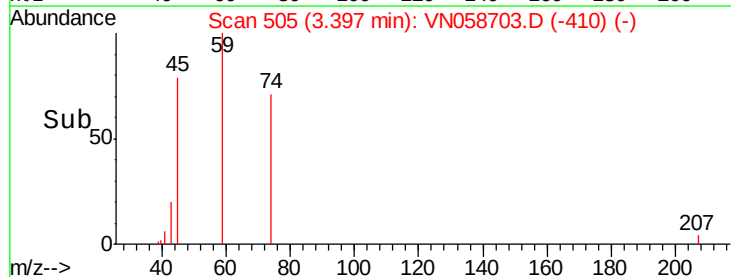
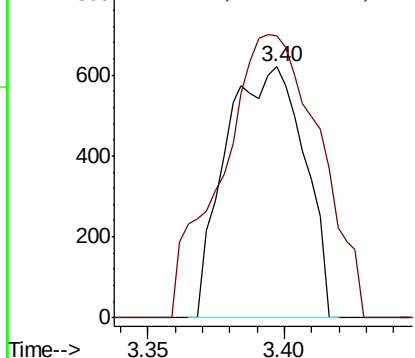
#8

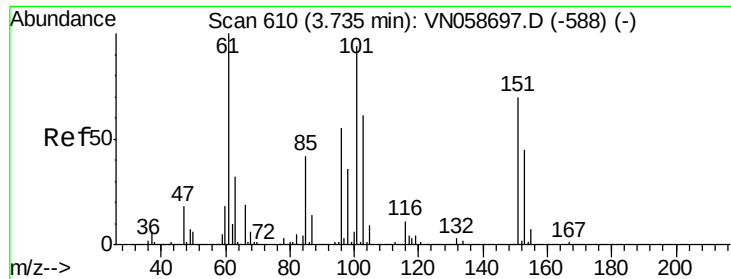
Diethyl Ether
 Concen: 0.439 ug/l
 RT: 3.40 min Scan# 505
 Delta R.T. 0.01 min
 Lab File: VN058703.D
 Acq: 11 Oct 2019 15:14

Tgt Ion: 74 Resp: 1236
 Ion Ratio Lower Upper
 74 100
 45 140.8 51.3 154.0



Abundance Ion 74.00 (73.70 to 74.70): VNO
 Ion 45.00 (44.70 to 45.70): VNO





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.521 ug/l

RT: 3.74 min Scan# 612

Delta R.T. 0.01 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

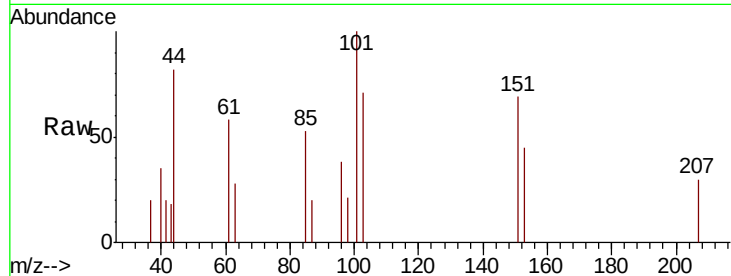
Tot Ion:101 Resp: 2262

Ion Ratio Lower Upper

101 100

85 7.8 37.0 55.6#

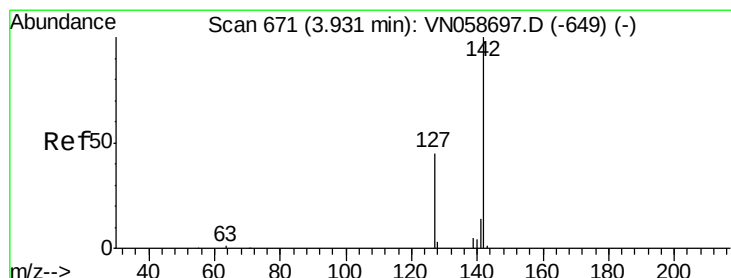
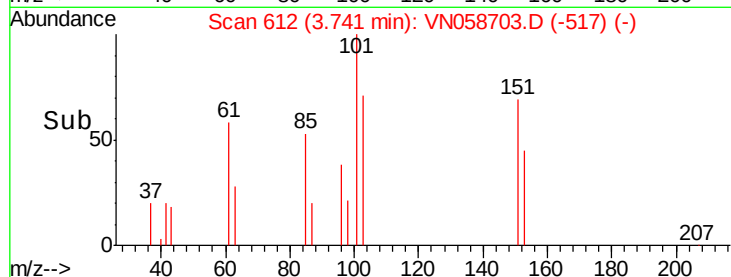
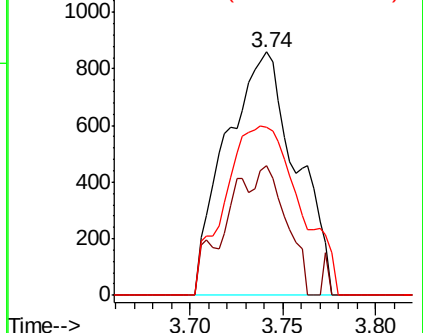
151 74.7 61.8 92.6



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: 0.400 ug/l

RT: 3.93 min Scan# 672

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

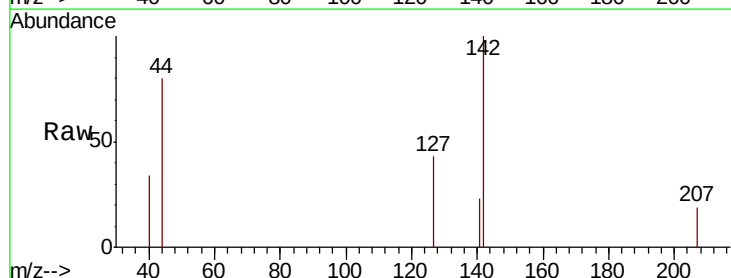
Tgt Ion:142 Resp: 2368

Ion Ratio Lower Upper

142 100

127 45.9 36.4 54.6

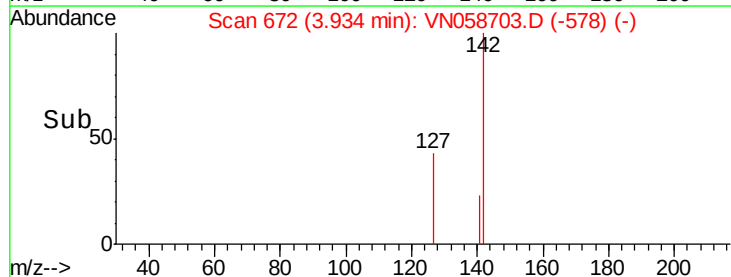
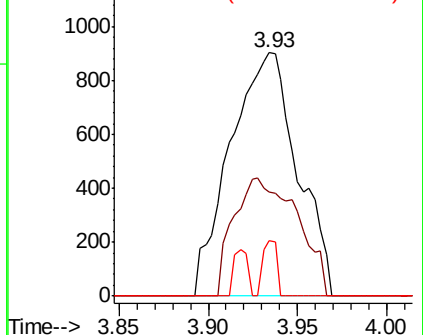
141 4.7 11.1 16.7#

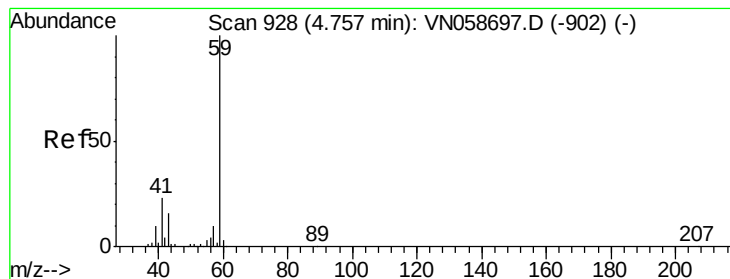


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



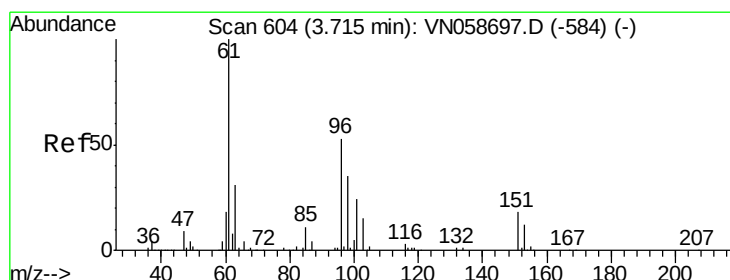
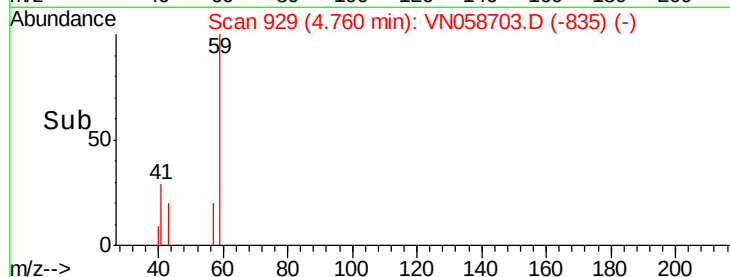
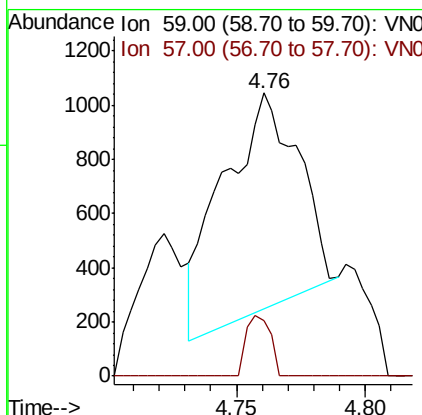
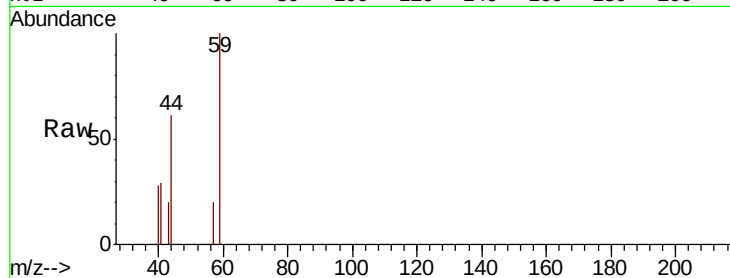


#11

Tert butyl alcohol
 Concen: 1.687 ug/l
 RT: 4.76 min Scan# 929
 Delta R.T. 0.00 min
 Lab File: VN058703.D
 Acq: 11 Oct 2019 15:14

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

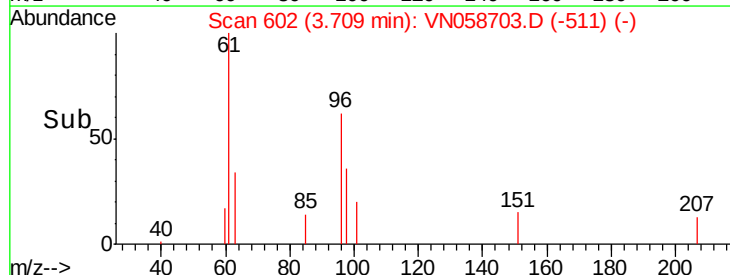
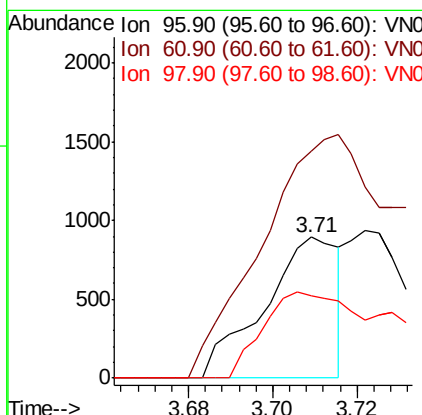
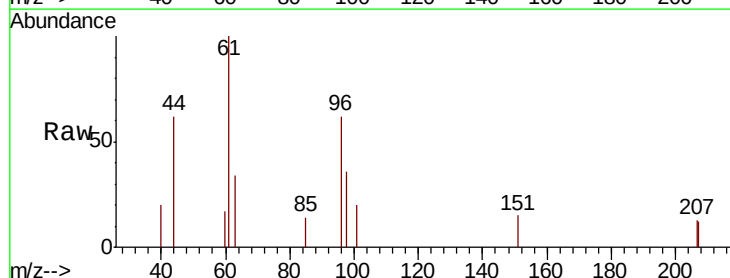
Tot Ion: 59 Resp: 1650
 Ion Ratio Lower Upper
 59 100
 57 8.9 8.4 12.6

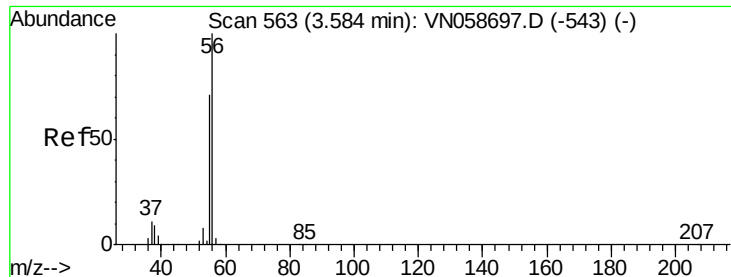


#12

1,1-Dichloroethene
 Concen: 0.265 ug/l
 RT: 3.71 min Scan# 602
 Delta R.T. -0.01 min
 Lab File: VN058703.D
 Acq: 11 Oct 2019 15:14

Tgt Ion: 96 Resp: 1096
 Ion Ratio Lower Upper
 96 100
 61 161.0 151.3 226.9
 98 58.2 52.6 78.8





#13

Acrolein

Concen: 3.081 ug/l

RT: 3.59 min Scan# 564

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

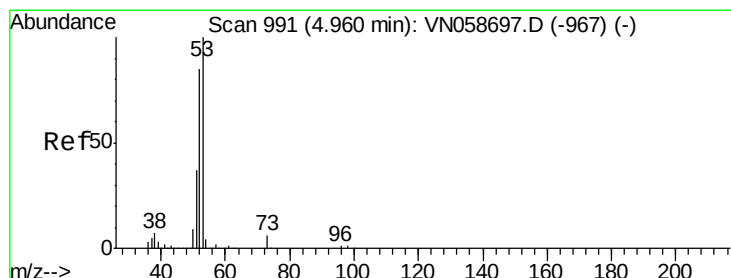
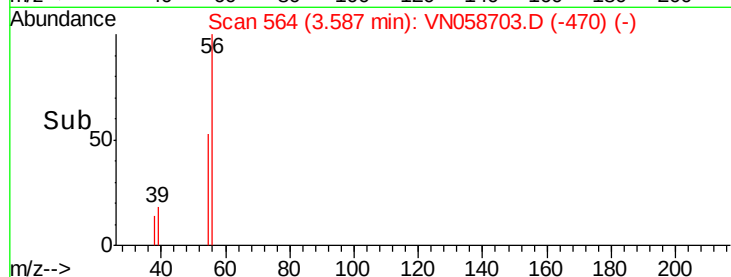
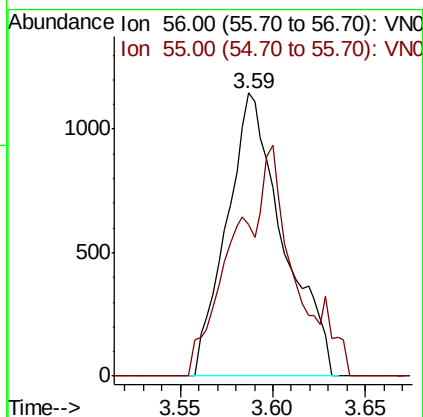
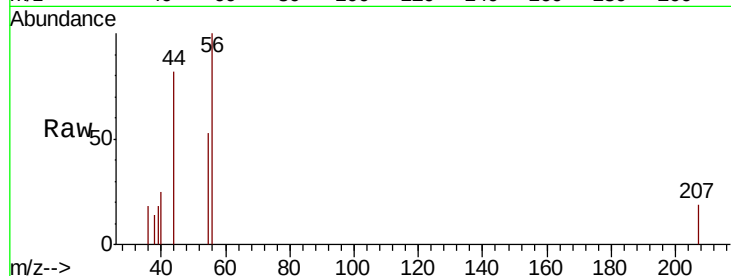
LOQ-WATER-02-QT4-2019

Tot Ion: 56 Resp: 2423

Ion Ratio Lower Upper

56 100

55 36.5 56.7 85.1#



#15

Acrylonitrile

Concen: 2.172 ug/l

RT: 4.97 min Scan# 994

Delta R.T. 0.01 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

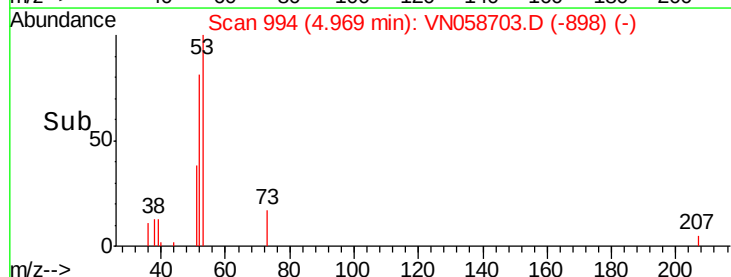
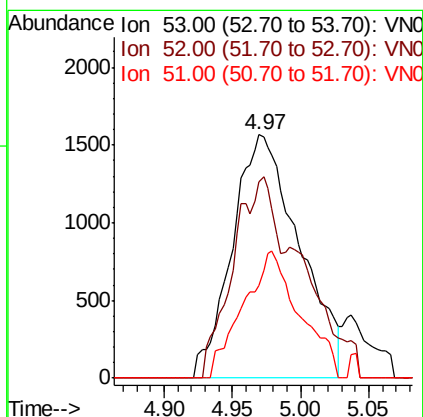
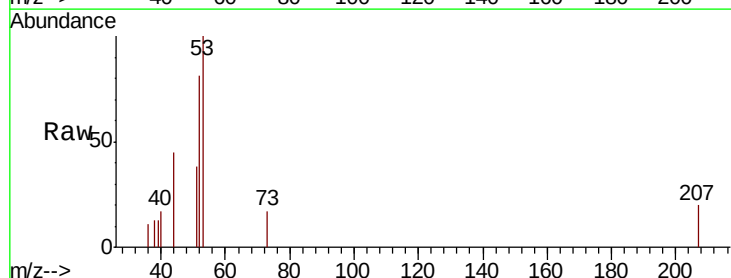
Tgt Ion: 53 Resp: 5357

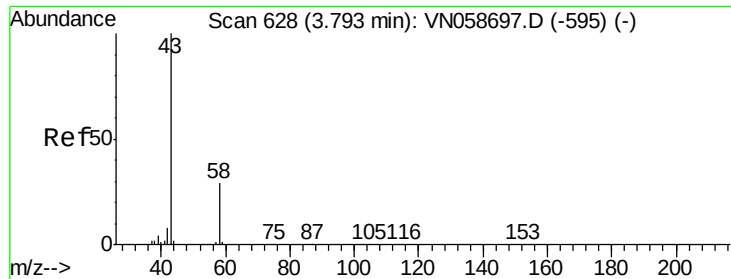
Ion Ratio Lower Upper

53 100

52 56.6 66.2 99.2#

51 43.9 29.4 44.2

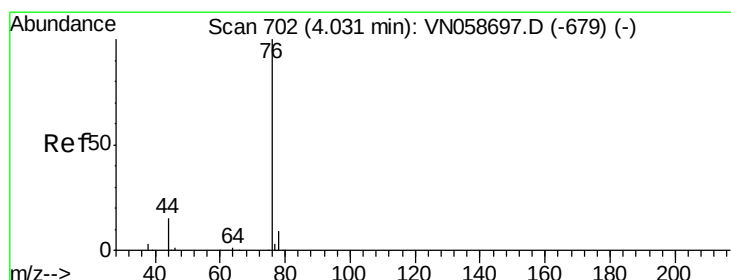
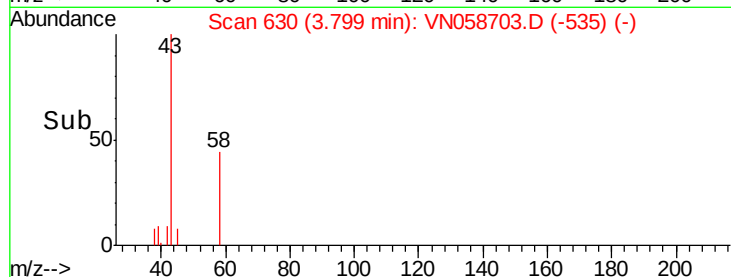
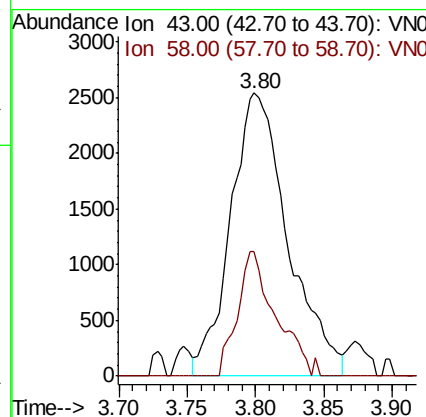
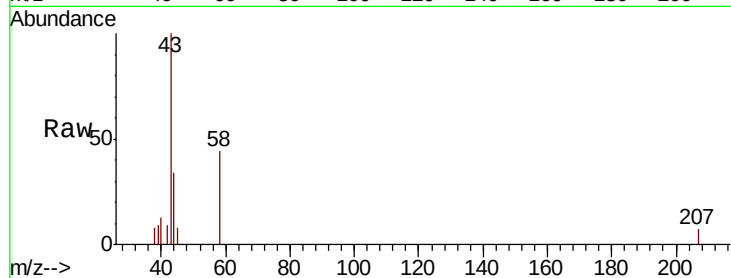




#16
Acetone
Concen: 2.974 ug/l
RT: 3.80 min Scan# 630
Delta R.T. 0.01 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

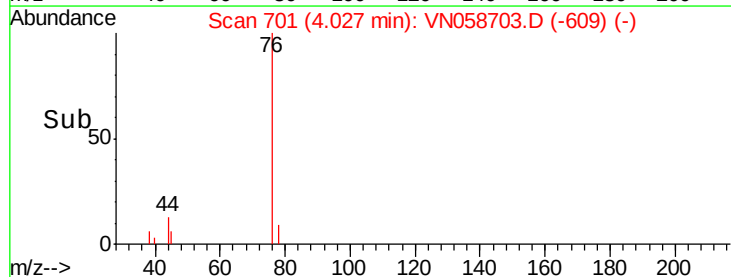
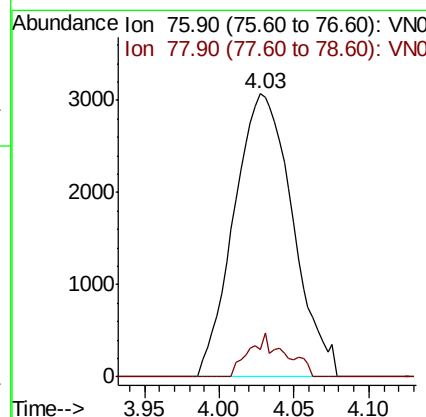
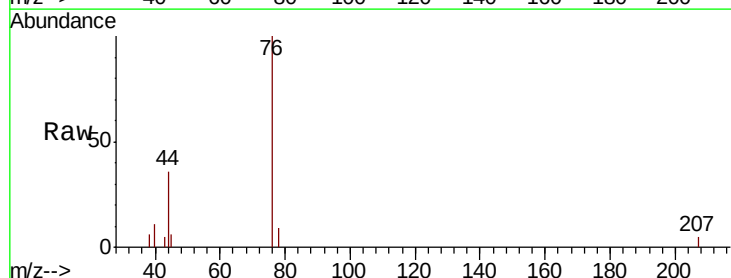
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

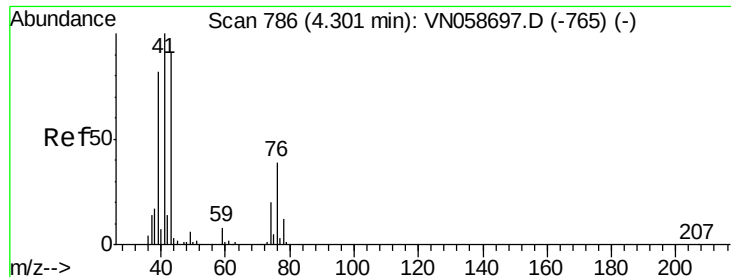
Tot Ion: 43 Resp: 7434
Ion Ratio Lower Upper
43 100
58 46.8 23.3 34.9#



#17
Carbon Disulfide
Concen: 0.632 ug/l
RT: 4.03 min Scan# 701
Delta R.T. -0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Tgt Ion: 76 Resp: 8366
Ion Ratio Lower Upper
76 100
78 9.5 7.1 10.7

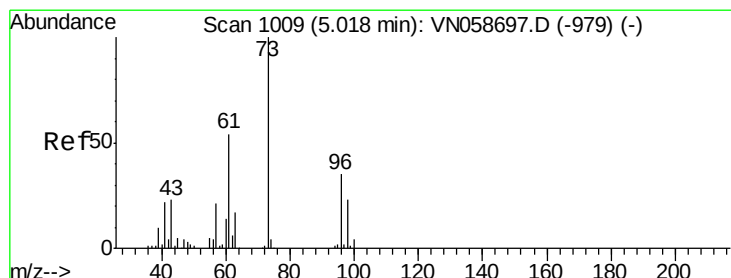
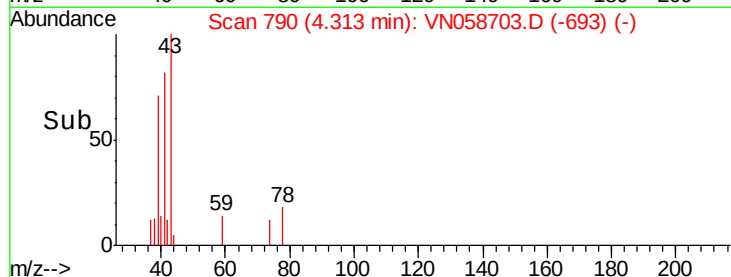
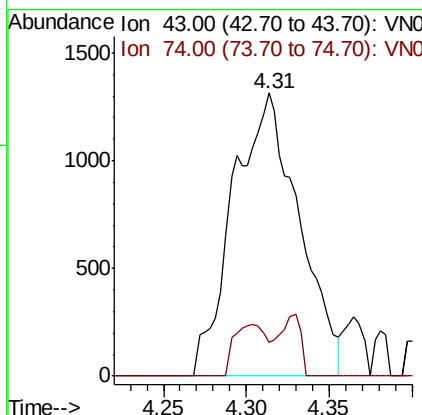
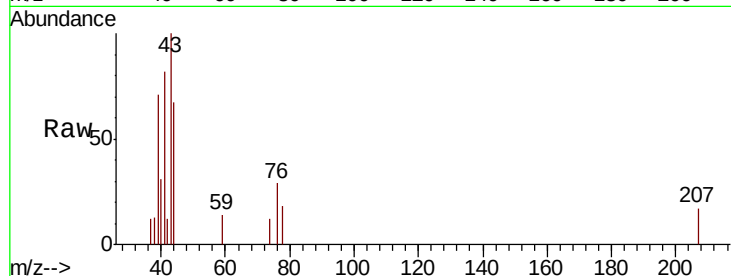




#18
Methyl Acetate
Concen: 0.571 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.01 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

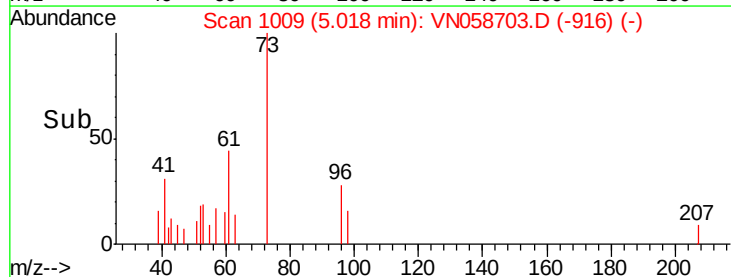
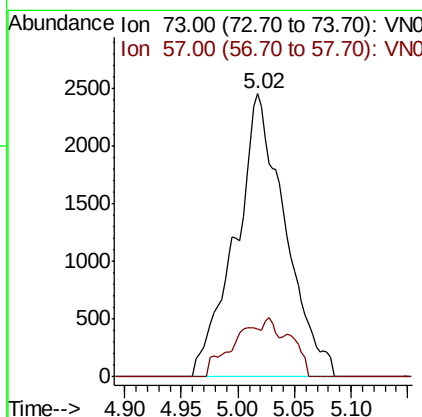
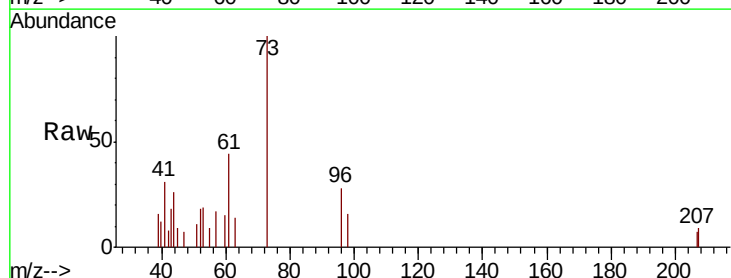
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

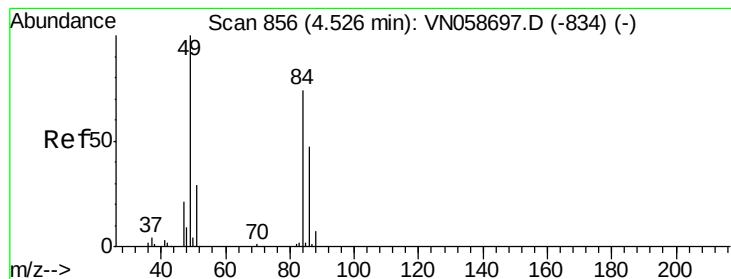
Tot Ion: 43 Resp: 3622
Ion Ratio Lower Upper
43 100
74 8.9 17.2 25.8#



#19
Methyl tert-butyl Ether
Concen: 0.508 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Tgt Ion: 73 Resp: 7507
Ion Ratio Lower Upper
73 100
57 17.0 17.0 25.6#





#20

Methylene Chloride

Concen: 0.387 ug/l

RT: 4.53 min Scan# 858

Delta R.T. 0.01 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 84 Resp: 2024

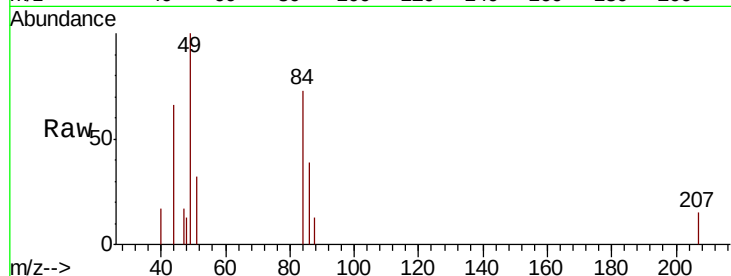
Ion Ratio Lower Upper

84 100

49 136.8 107.6 161.4

51 44.0 31.4 47.0

86 53.9 50.3 75.5

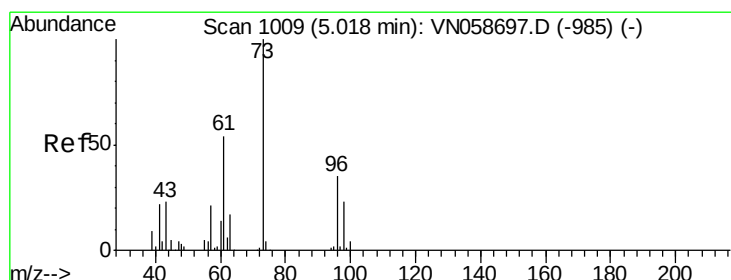
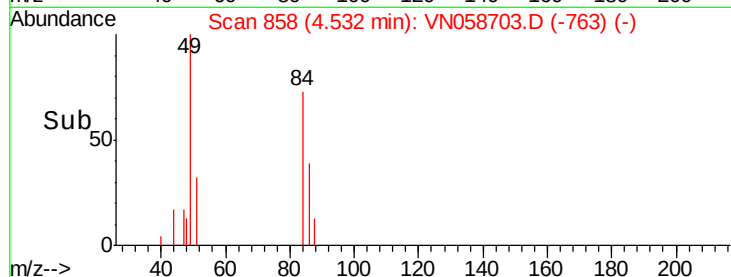
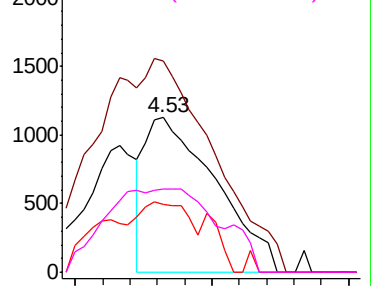


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#21

trans-1,2-Dichloroethene

Concen: 0.274 ug/l

RT: 5.01 min Scan# 1006

Delta R.T. -0.01 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

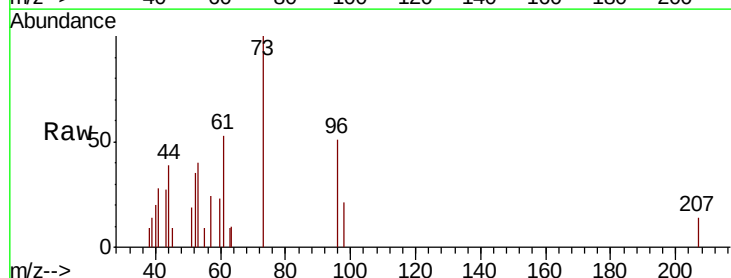
Tgt Ion: 96 Resp: 1269

Ion Ratio Lower Upper

96 100

61 78.4 123.6 185.4#

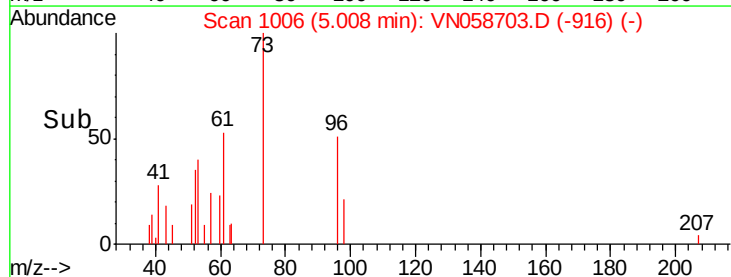
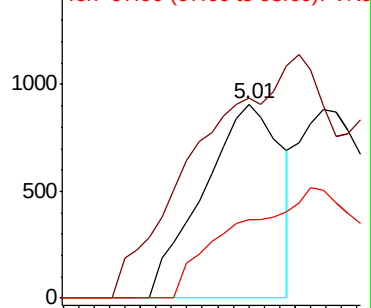
98 40.6 52.1 78.1#

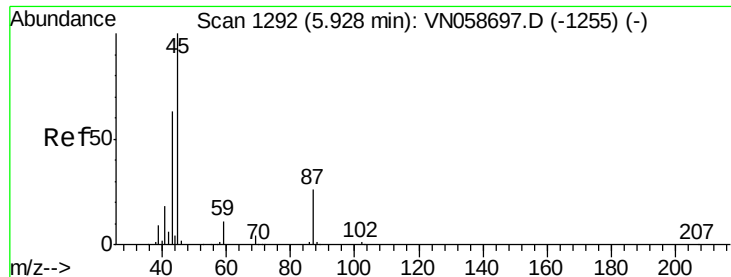


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

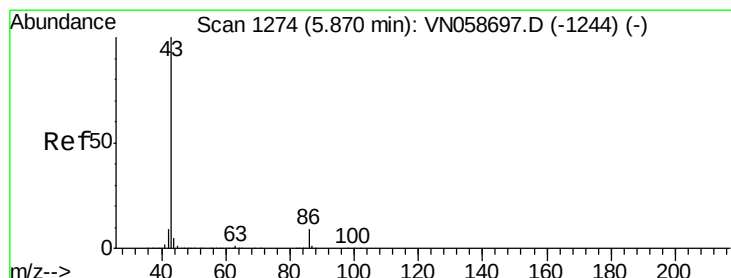
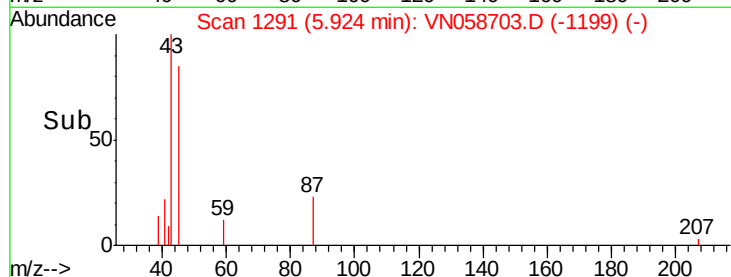
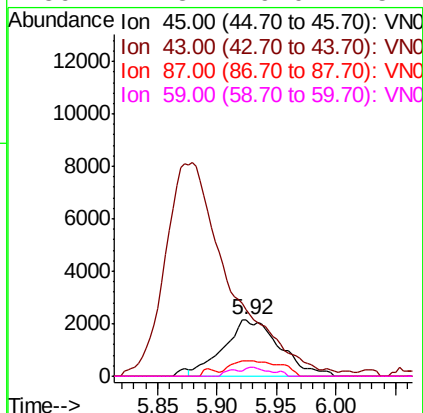
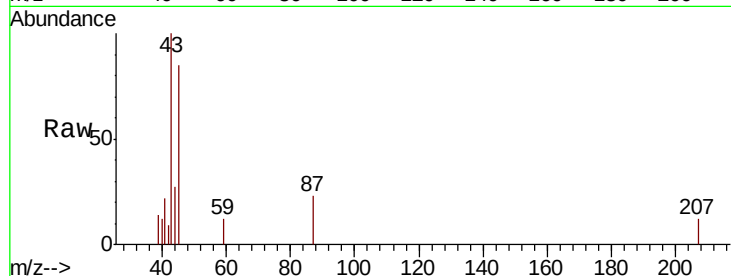




#22
Diisopropyl ether
Concen: 0.431 ug/l
RT: 5.92 min Scan# 1291
Delta R.T. -0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

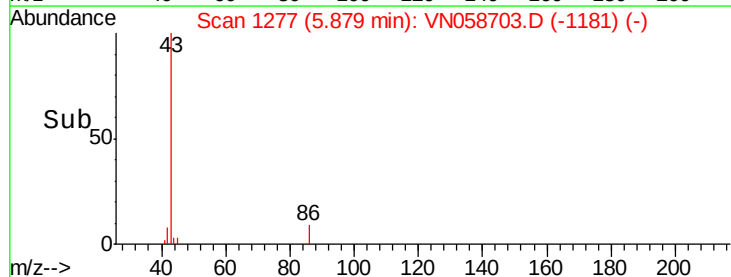
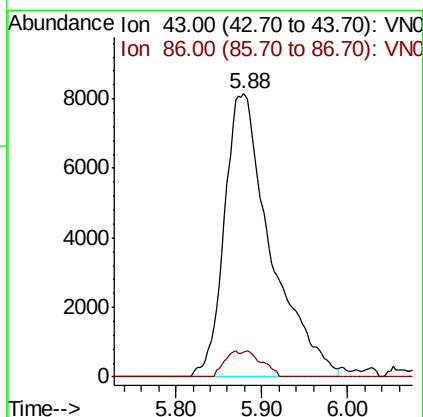
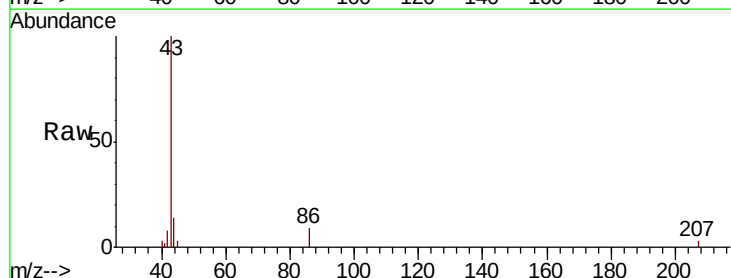
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

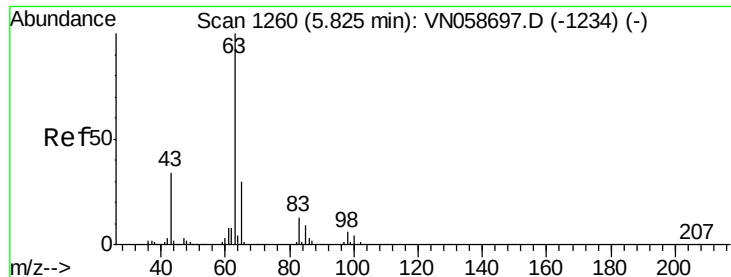
Tot Ion: 45 Resp: 7004
Ion Ratio Lower Upper
45 100
43 111.0 50.6 75.8#
87 26.6 21.1 31.7
59 14.3 9.0 13.4#



#23
Vinyl Acetate
Concen: 2.329 ug/l
RT: 5.88 min Scan# 1277
Delta R.T. 0.01 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Tgt Ion: 43 Resp: 30546
Ion Ratio Lower Upper
43 100
86 8.6 7.4 11.0





#24

1,1-Dichloroethane

Concen: 0.506 ug/l

RT: 5.82 min Scan# 1257

Delta R.T. -0.01 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

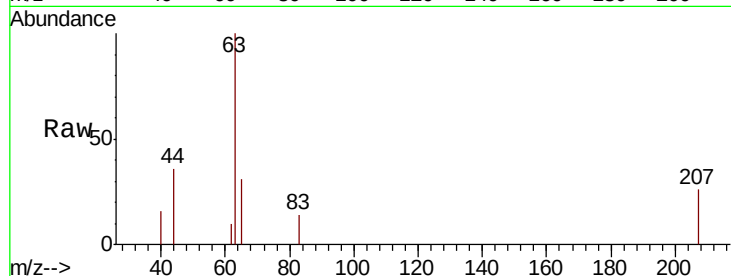
Tot Ion: 63 Resp: 4684

Ion Ratio Lower Upper

63 100

98 0.0 2.9 8.6#

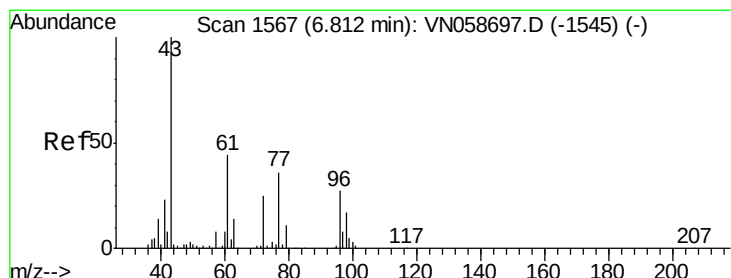
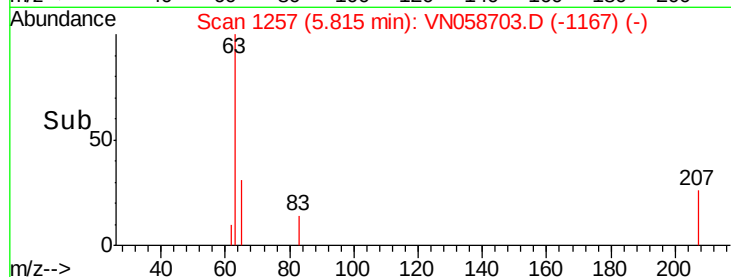
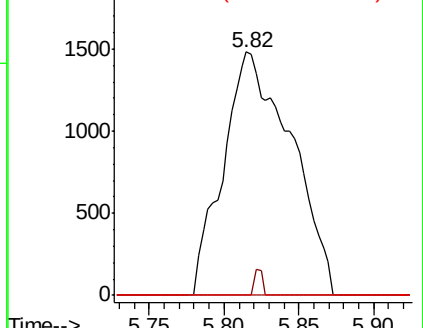
100 0.0 1.8 5.5#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0



#25

2-Butanone

Concen: 2.654 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.01 min

Lab File: VN058703.D

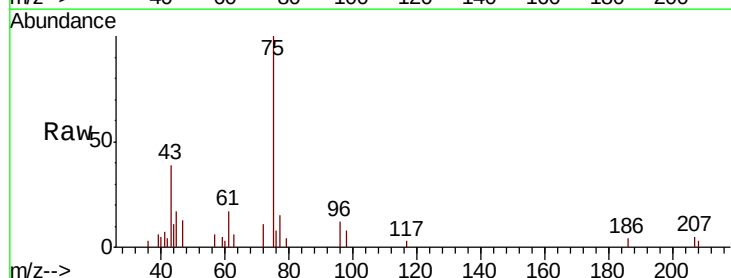
Acq: 11 Oct 2019 15:14

Tgt Ion: 43 Resp: 9588

Ion Ratio Lower Upper

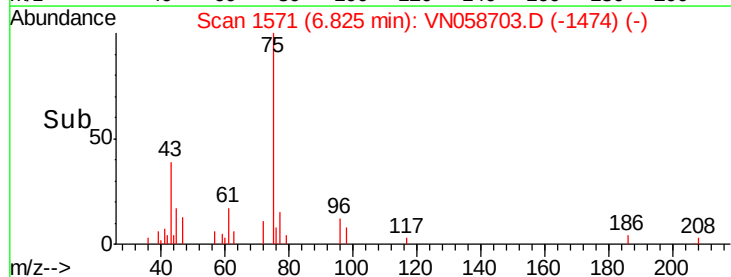
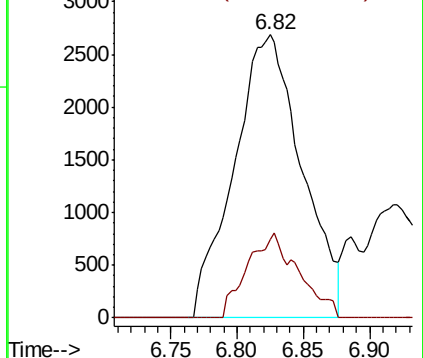
43 100

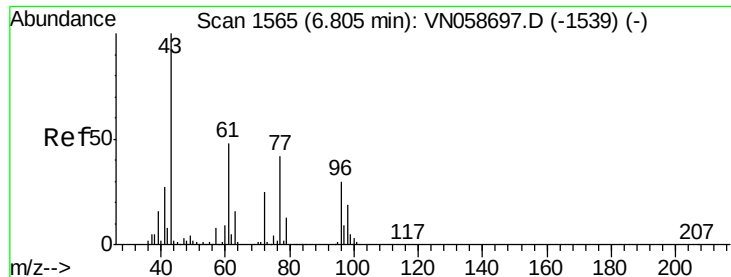
72 27.9 20.2 30.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

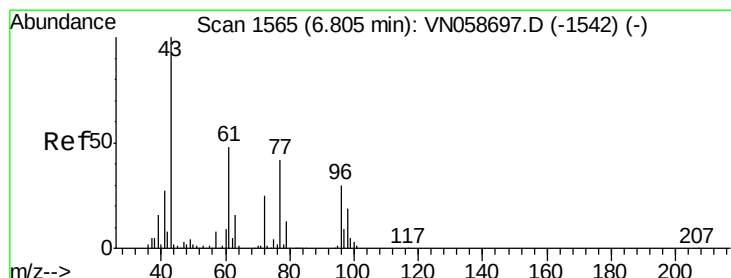
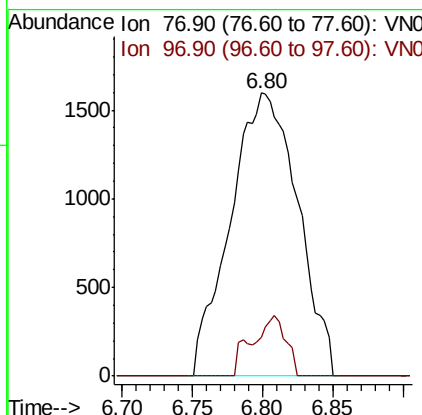
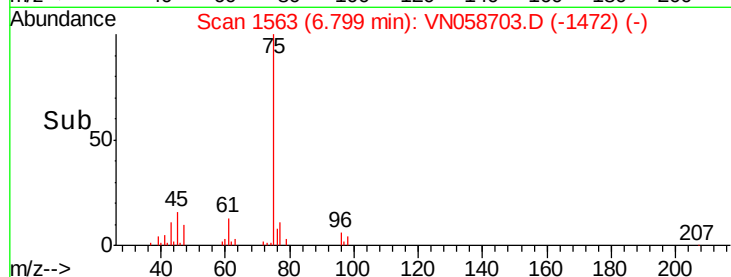
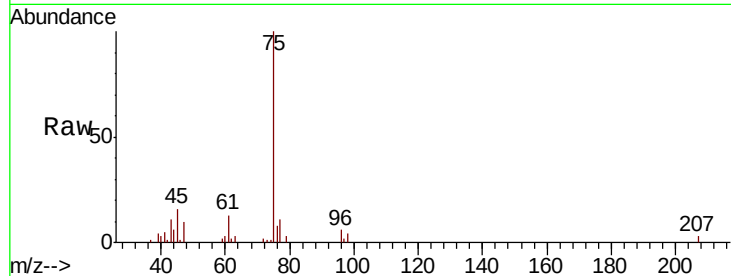




#26
 2,2-Dichloropropane
 Concen: 0.629 ug/l
 RT: 6.80 min Scan# 1563
 Delta R.T. -0.01 min
 Lab File: VN058703.D
 Acq: 11 Oct 2019 15:14

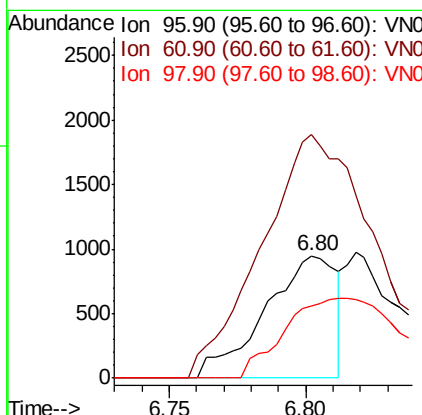
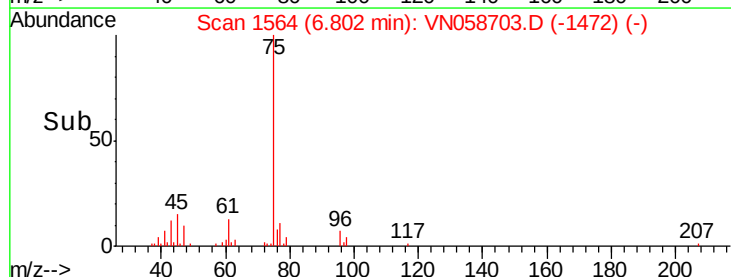
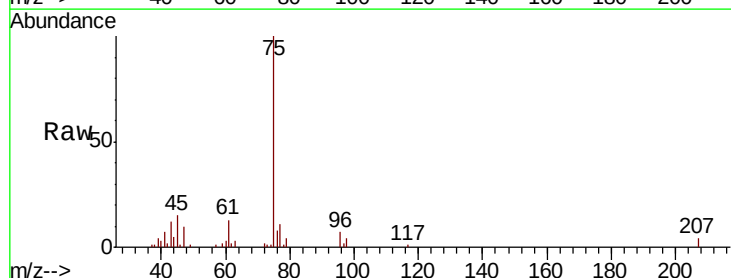
Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

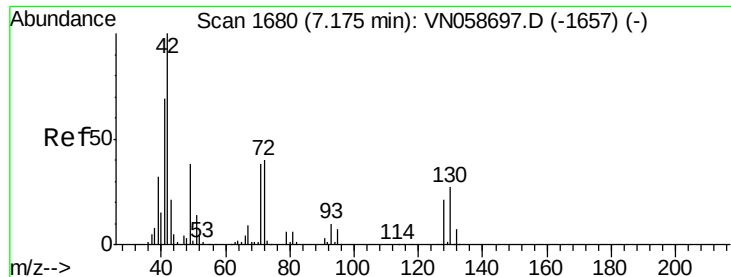
Tot Ion: 77 Resp: 5314
 Ion Ratio Lower Upper
 77 100
 97 8.0 10.7 31.9#



#27
 cis-1,2-Dichloroethene
 Concen: 0.316 ug/l
 RT: 6.80 min Scan# 1564
 Delta R.T. -0.00 min
 Lab File: VN058703.D
 Acq: 11 Oct 2019 15:14

Tgt Ion: 96 Resp: 1710
 Ion Ratio Lower Upper
 96 100
 61 323.6 0.0 324.8
 98 101.9 0.0 129.2





#28

Bromochloromethane

Concen: 0.576 ug/l

RT: 7.17 min Scan# 1679

Delta R.T. -0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

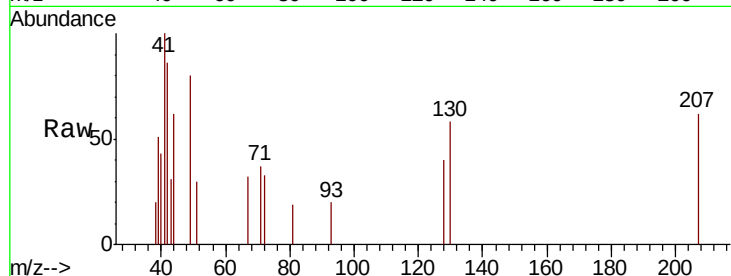
Tot Ion: 49 Resp: 1854

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

130 45.9 55.0 82.4#



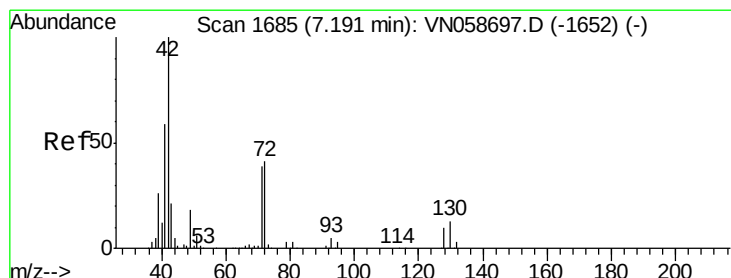
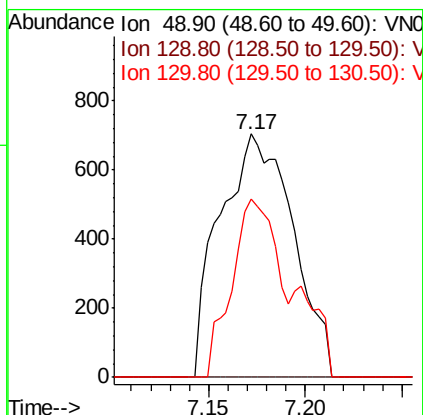
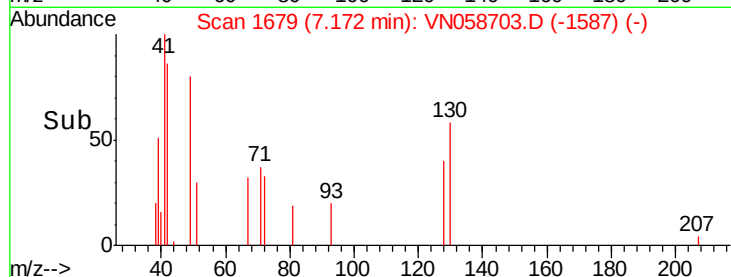
Abundance Ion 48.90 (48.60 to 49.60): VN058703.D (-1657) (-)

Ion 128.80 (128.50 to 129.50): VN058703.D (-1657) (-)

Ion 129.80 (129.50 to 130.50): VN058703.D (-1657) (-)

7.17

Time-->



#29

Tetrahydrofuran

Concen: 2.627 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

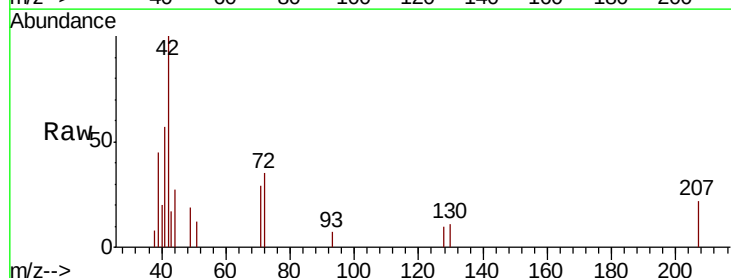
Tgt Ion: 42 Resp: 6135

Ion Ratio Lower Upper

42 100

72 34.6 32.8 49.2

71 35.0 31.1 46.7



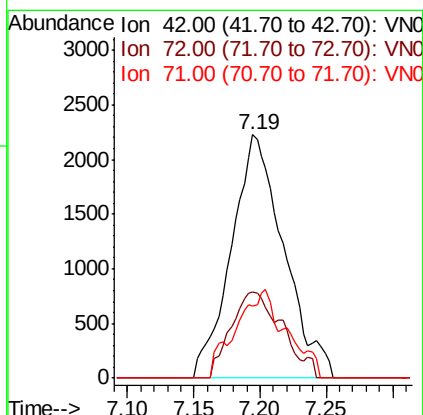
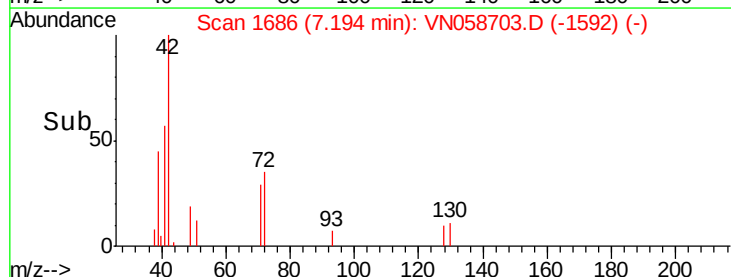
Abundance Ion 42.00 (41.70 to 42.70): VN058703.D (-1652) (-)

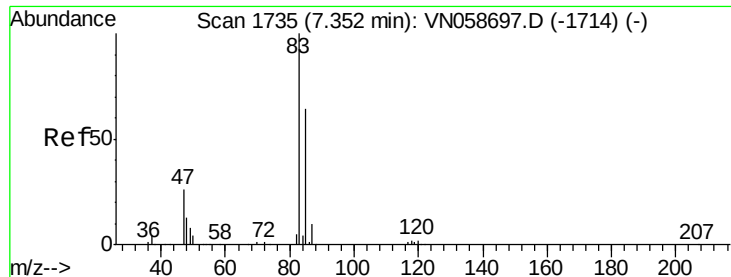
Ion 72.00 (71.70 to 72.70): VN058703.D (-1652) (-)

Ion 71.00 (70.70 to 71.70): VN058703.D (-1652) (-)

7.19

Time-->

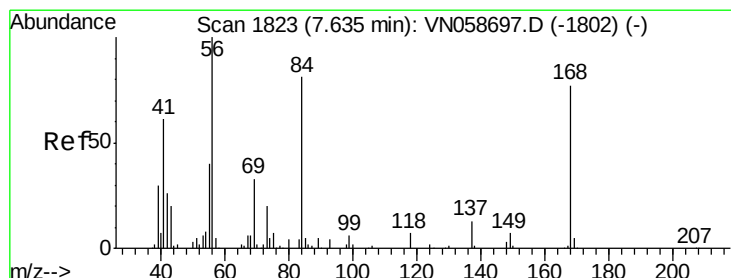
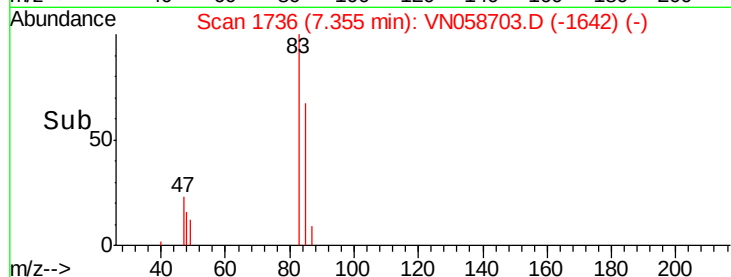
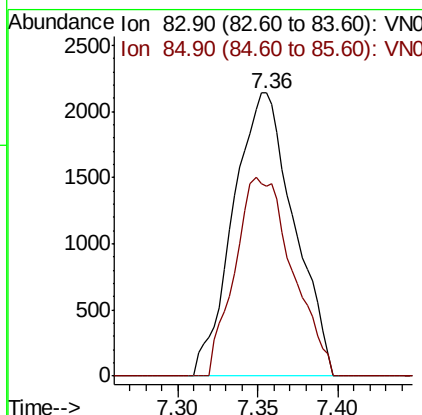
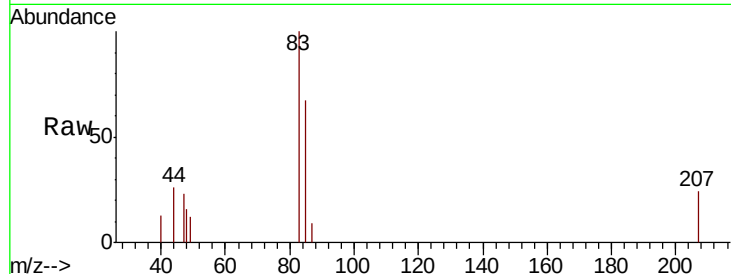




#30
Chloroform
Concen: 0.600 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

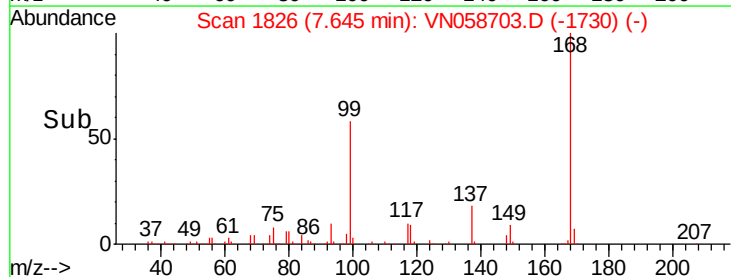
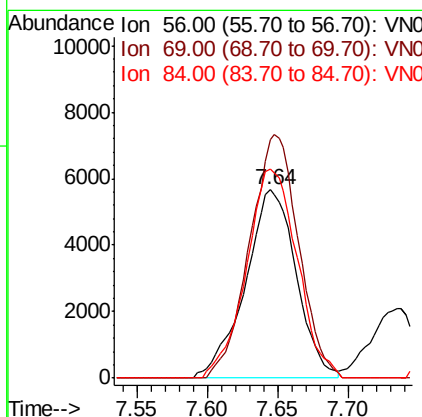
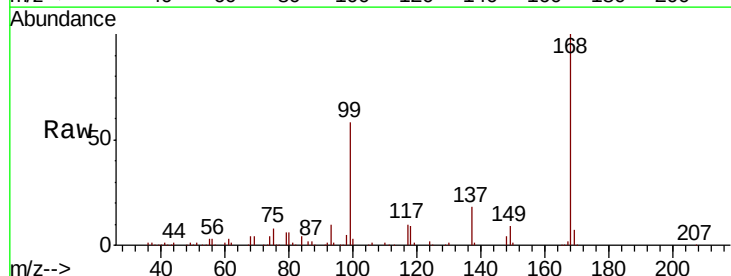
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

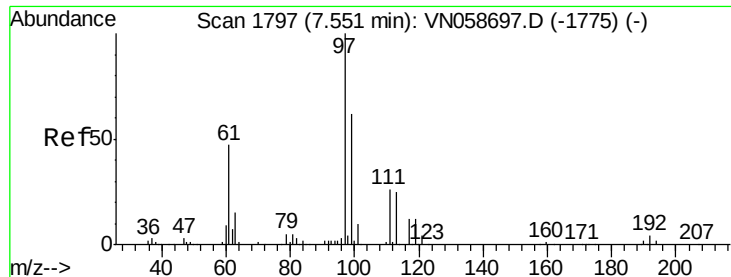
Tot Ion: 83 Resp: 5578
Ion Ratio Lower Upper
83 100
85 67.1 51.0 76.6



#31
Cyclohexane
Concen: 1.610 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Tgt Ion: 56 Resp: 14260
Ion Ratio Lower Upper
56 100
69 126.6 26.2 39.4#
84 111.0 64.9 97.3#

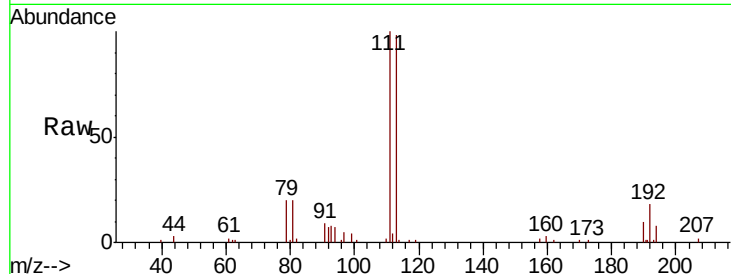




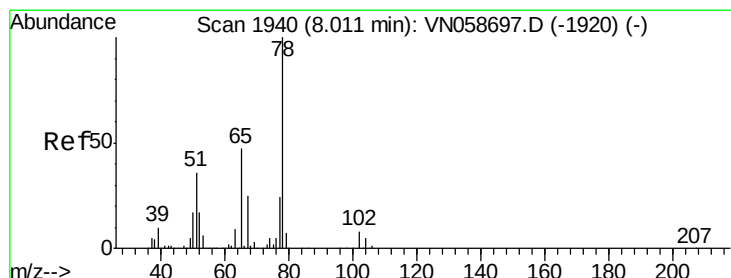
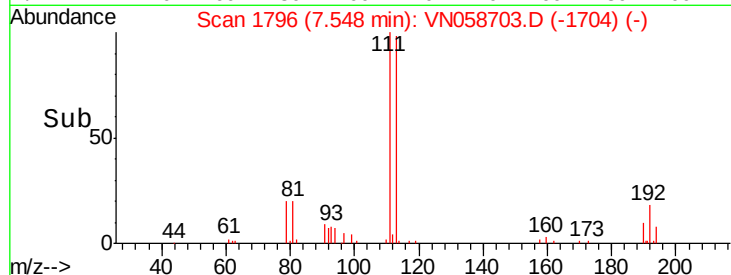
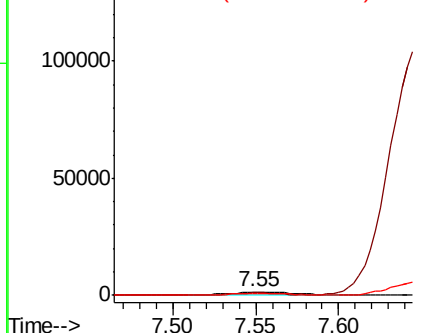
#32
 1,1,1-Trichloroethane
 Concen: 0.500 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN058703.D
 Acq: 11 Oct 2019 15:14

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

Tot Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.8	76.2#
61	47.4	38.1	57.1

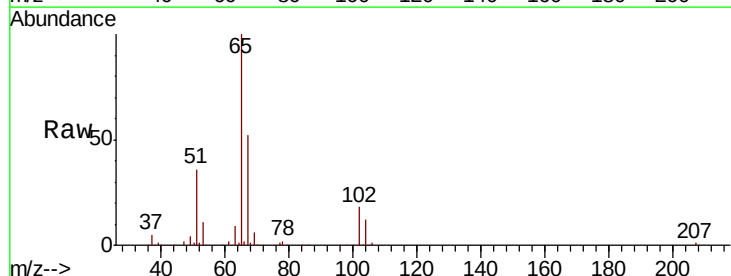


Abundance Ion 96.90 (96.60 to 97.60): VN0
 Ion 98.90 (98.60 to 99.60): VN0
 Ion 60.90 (60.60 to 61.60): VN0

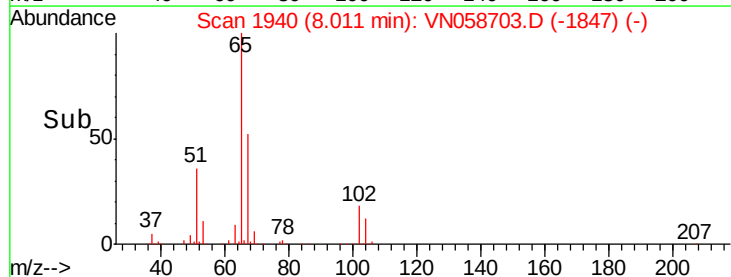
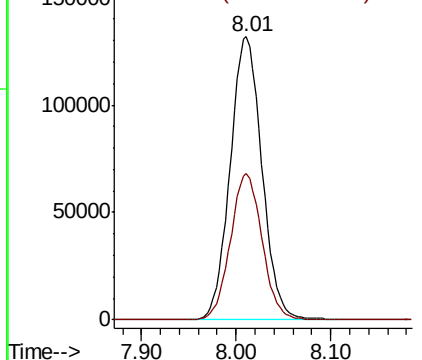


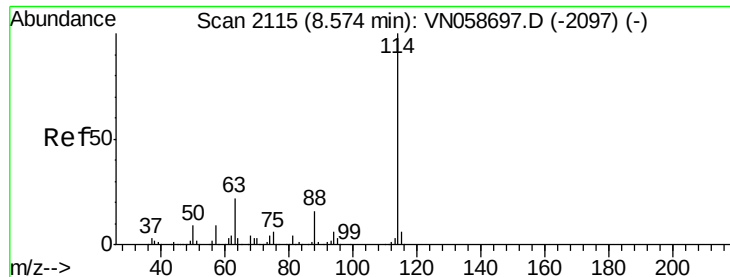
#33
 1,2-Dichloroethane-d4
 Concen: 50.963 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058703.D
 Acq: 11 Oct 2019 15:14

Tgt Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
 Ion 66.90 (66.60 to 67.60): VN0

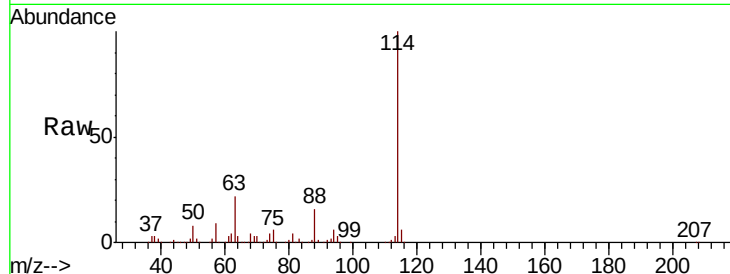




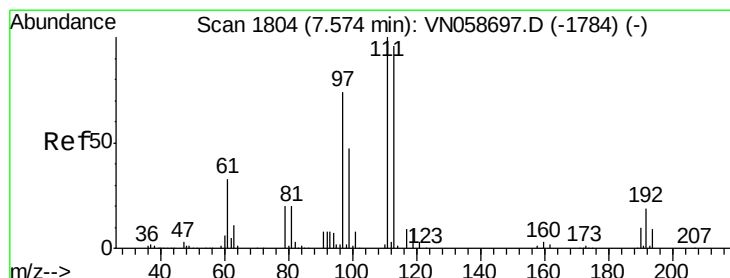
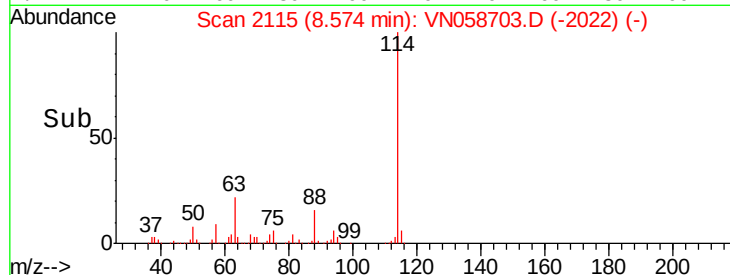
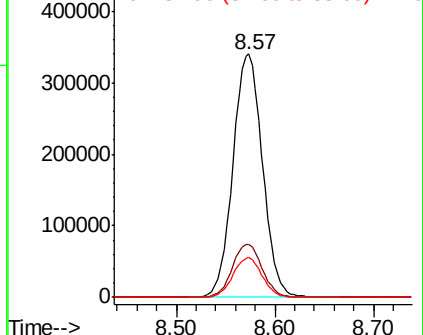
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058703.D
 Acq: 11 Oct 2019 15:14

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

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	43.8
88	16.3	0.0	32.0

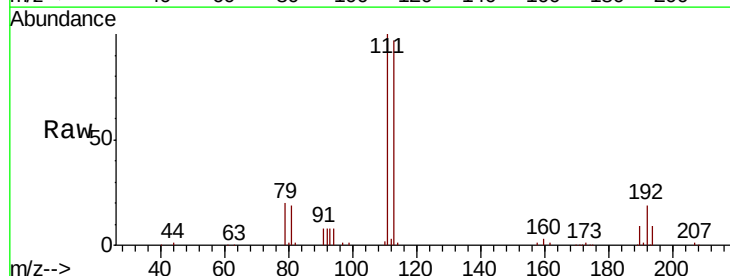


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

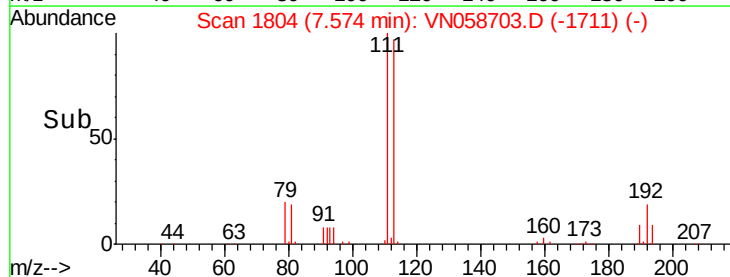
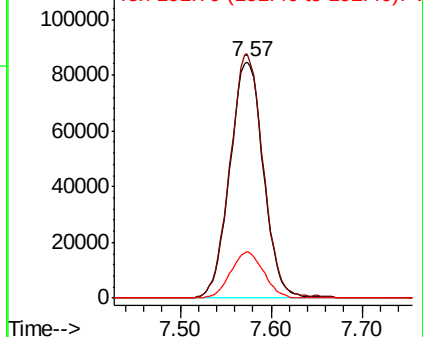


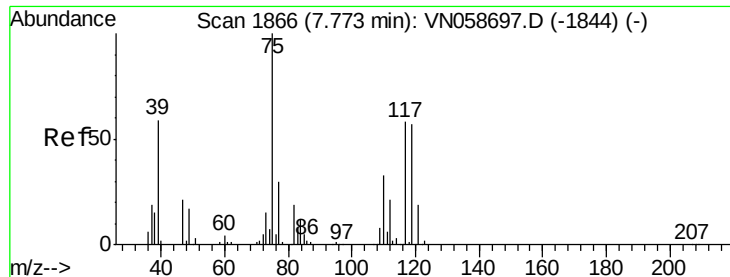
#35
 Dibromofluoromethane
 Concen: 49.649 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058703.D
 Acq: 11 Oct 2019 15:14

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.8	82.3	123.5
192	19.2	15.0	22.6



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

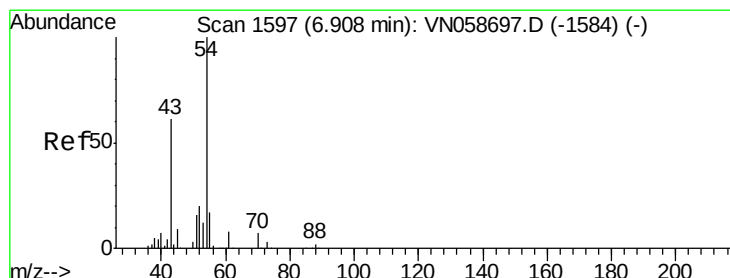
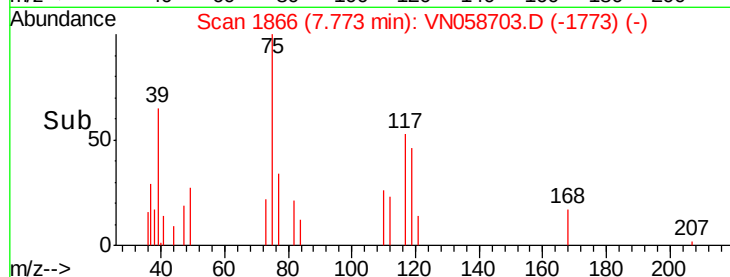
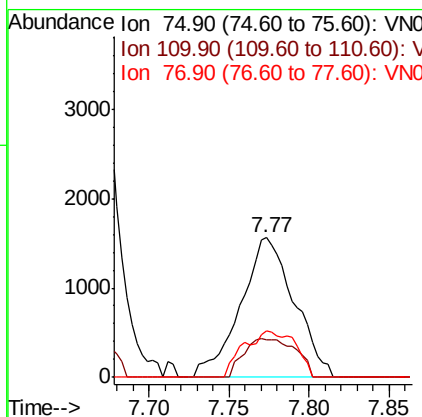
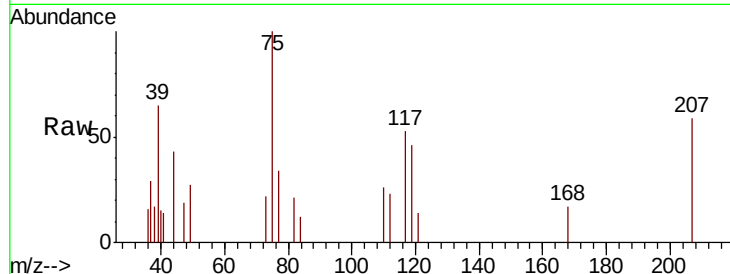




#36
 1,1-Dichloropropene
 Concen: 0.503 ug/l
 RT: 7.77 min Scan# 1866
 Delta R.T. 0.00 min
 Lab File: VN058703.D
 Acq: 11 Oct 2019 15:14

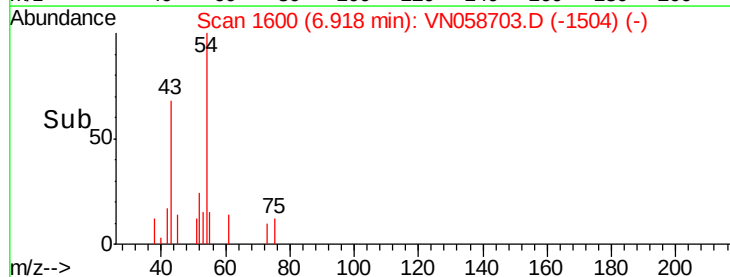
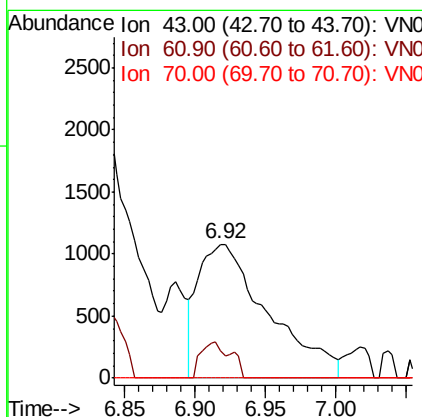
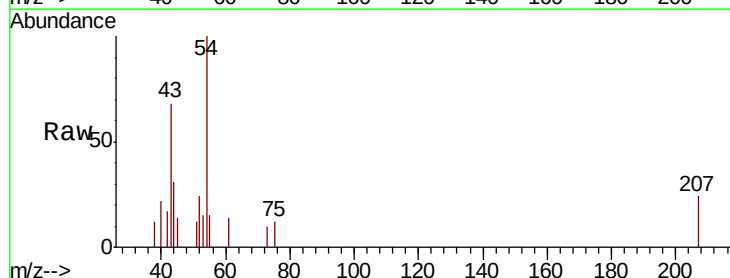
Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

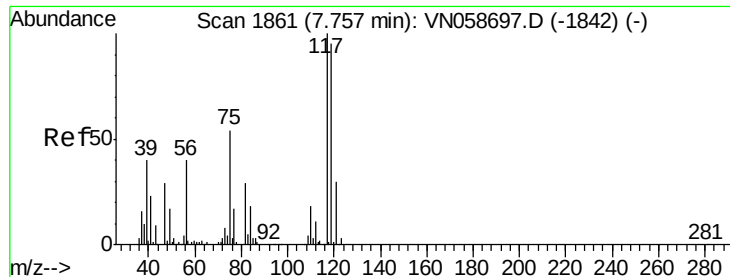
Tot Ion	Ratio	Lower	Upper
75	100		
110	26.5	16.6	49.8
77	31.8	24.6	37.0



#37
 Ethyl Acetate
 Concen: 0.512 ug/l
 RT: 6.92 min Scan# 1600
 Delta R.T. 0.01 min
 Lab File: VN058703.D
 Acq: 11 Oct 2019 15:14

Tgt Ion	Ratio	Lower	Upper
43	100		
61	11.5	11.3	16.9
70	0.0	7.2	10.8#

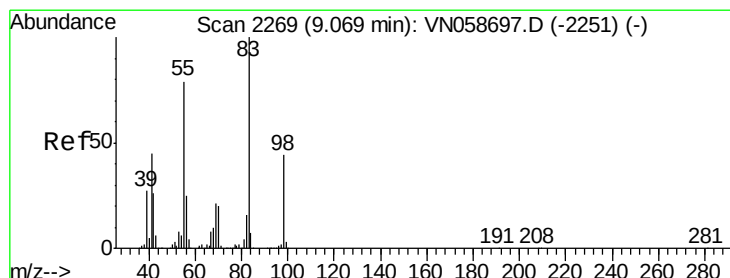
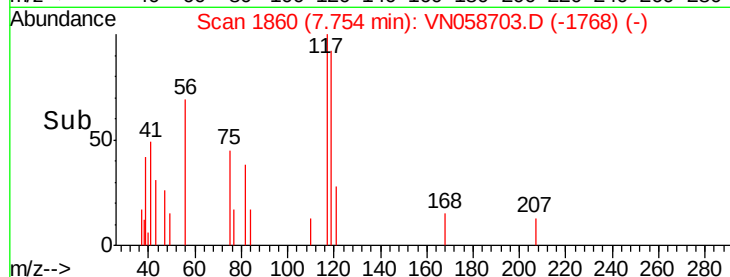
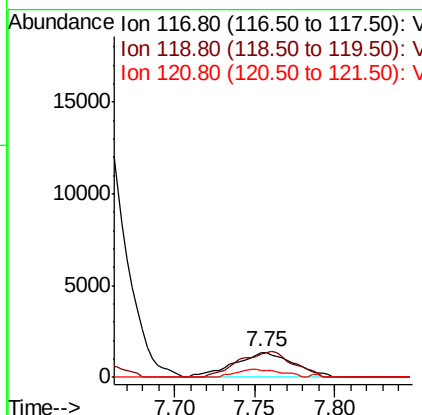
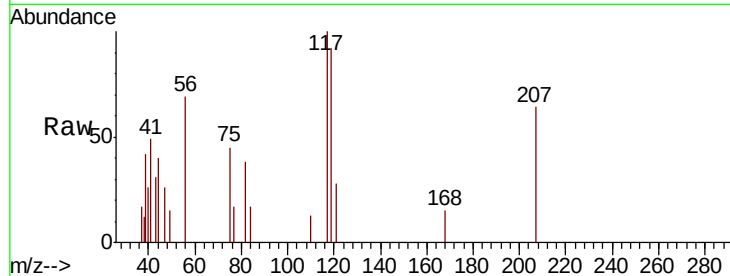




#38
Carbon Tetrachloride
Concen: 0.509 ug/l
RT: 7.75 min Scan# 1860
Delta R.T. -0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

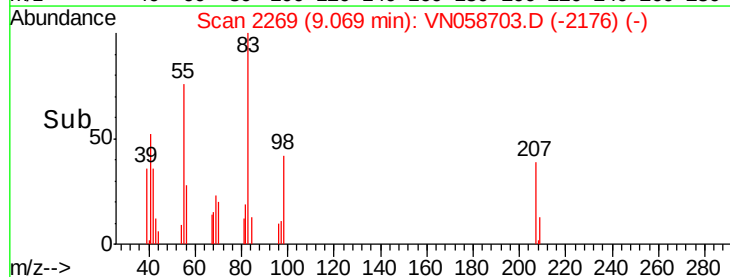
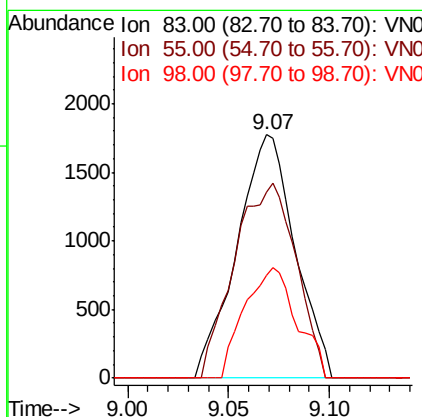
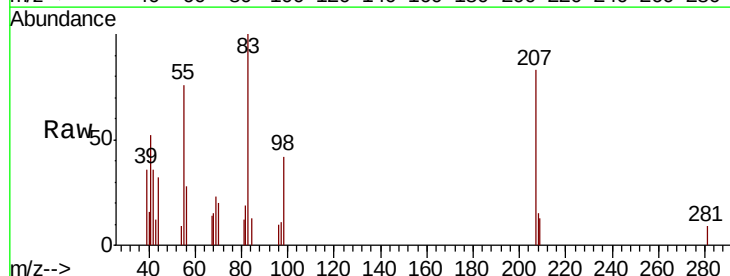
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

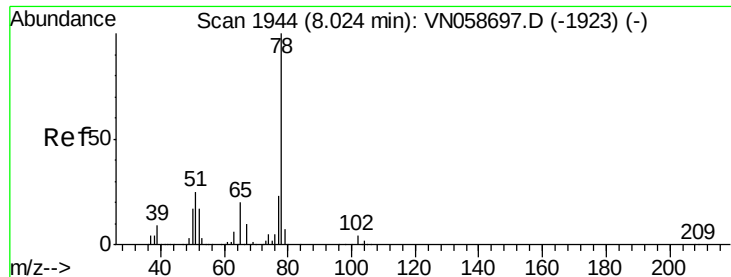
Tot Ion:117 Resp: 3557
Ion Ratio Lower Upper
117 100
119 92.3 75.7 113.5
121 28.5 23.9 35.9



#39
Methylcyclohexane
Concen: 0.428 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Tgt Ion: 83 Resp: 3557
Ion Ratio Lower Upper
83 100
55 76.4 63.4 95.0
98 42.4 35.1 52.7





#40

Benzene

Concen: 0.493 ug/l

RT: 8.02 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

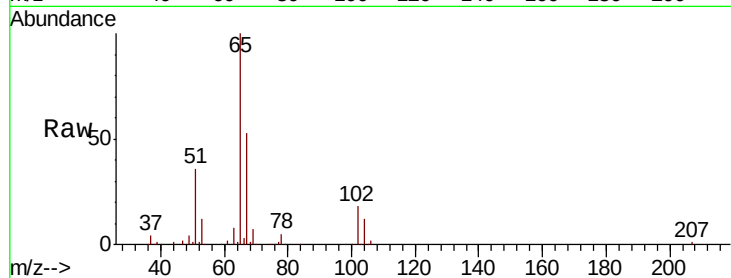
LOQ-WATER-02-QT4-2019

Tot Ion: 78 Resp: 10142

Ion Ratio Lower Upper

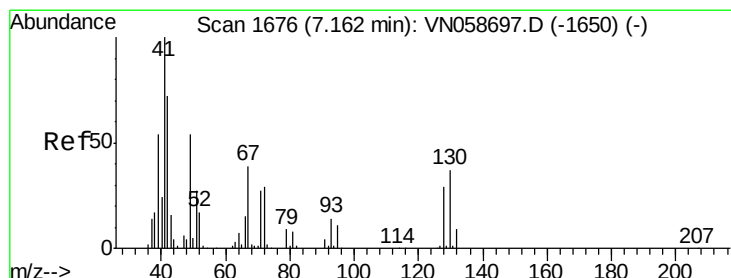
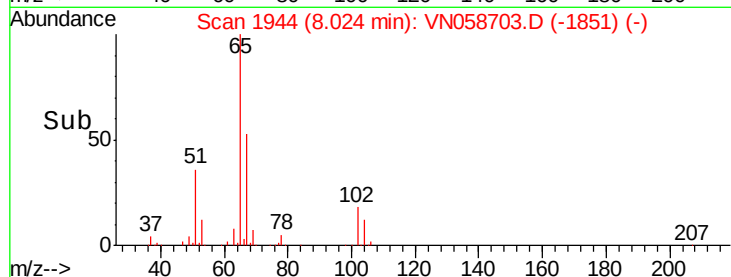
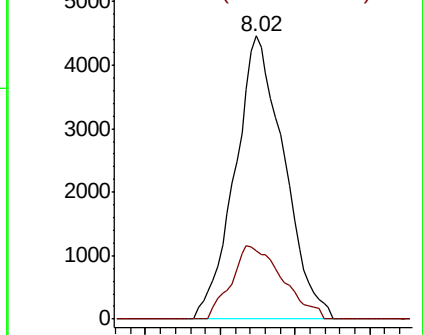
78 100

77 24.1 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0



#41

Methacrylonitrile

Concen: 0.511 ug/l

RT: 7.15 min Scan# 1671

Delta R.T. -0.02 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Tgt Ion: 41 Resp: 1733

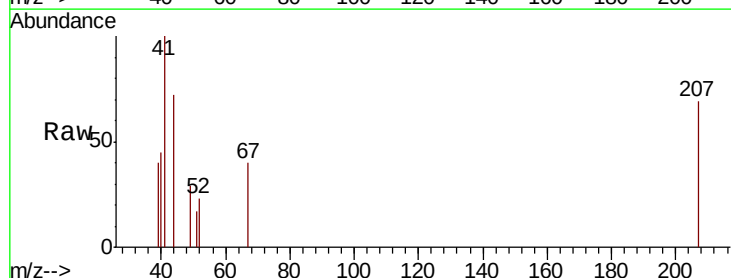
Ion Ratio Lower Upper

41 100

39 30.8 115.4 173.2#

67 23.4 0.0 0.0#

52 13.8 0.0 0.0#

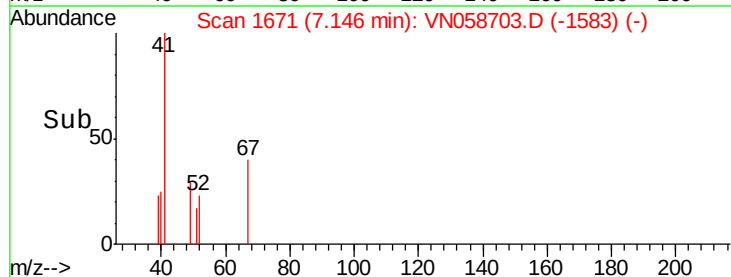
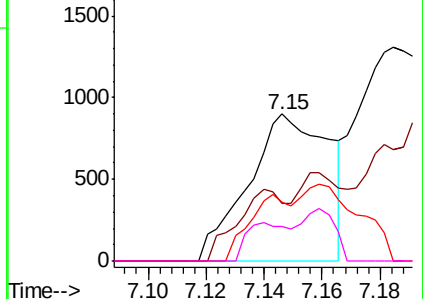


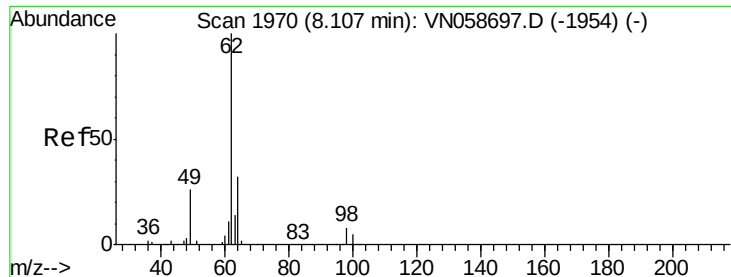
Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#42

1,2-Dichloroethane

Concen: 0.530 ug/l

RT: 8.11 min Scan# 1970

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

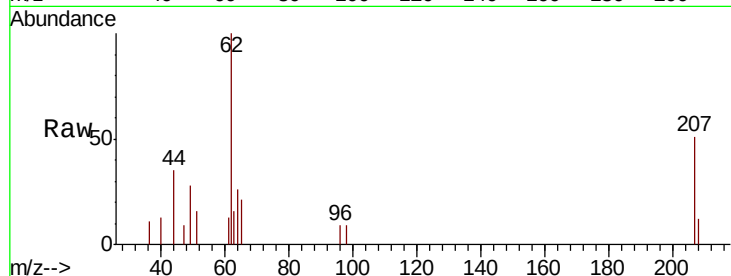
LOQ-WATER-02-QT4-2019

Tot Ion: 62 Resp: 4194

Ion Ratio Lower Upper

62 100

98 5.9 0.0 15.8



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 97.90 (97.60 to 98.60): VNO

8.11

2000

1500

1000

500

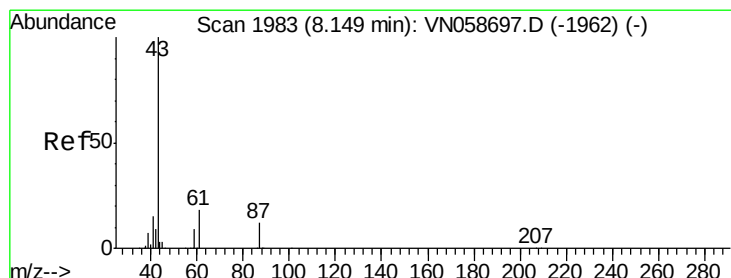
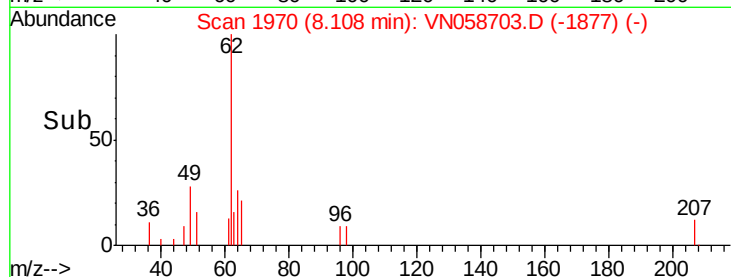
0

Time-->

8.05

8.10

8.15



#43

Isopropyl Acetate

Concen: 0.474 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

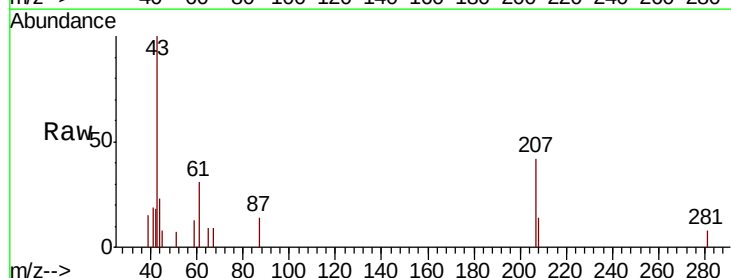
Tgt Ion: 43 Resp: 5853

Ion Ratio Lower Upper

43 100

61 19.2 20.3 30.5#

87 8.3 9.8 14.6#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

2500

2000

1500

1000

500

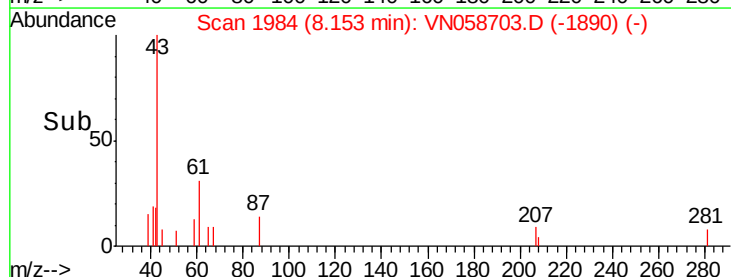
0

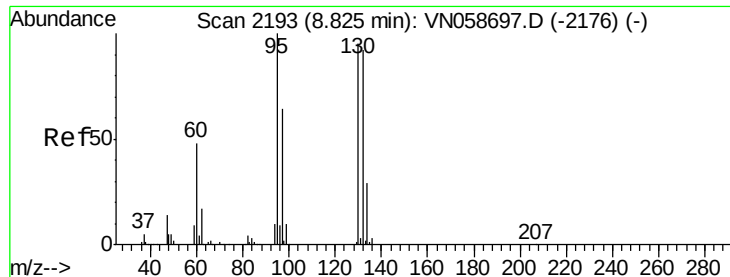
Time-->

8.10

8.15

8.20





#44

Trichloroethene

Concen: 0.512 ug/l

RT: 8.82 min Scan# 2192

Delta R.T. -0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

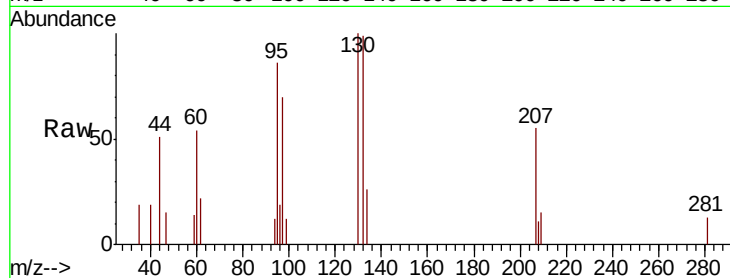
LOQ-WATER-02-QT4-2019

Tot Ion:130 Resp: 2616

Ion Ratio Lower Upper

130 100

95 86.1 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) (-)

8.82

1500

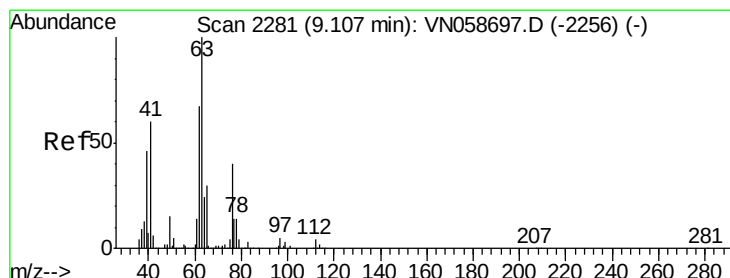
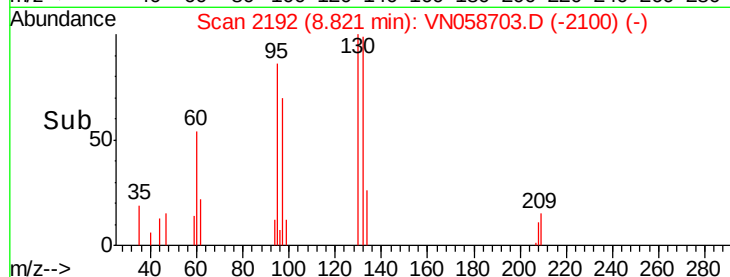
1000

500

0

8.80 8.85

Time-->



#45

1,2-Dichloropropane

Concen: 0.487 ug/l

RT: 9.11 min Scan# 2281

Delta R.T. 0.00 min

Lab File: VN058703.D

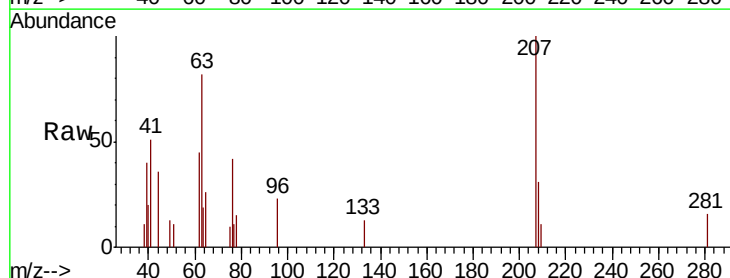
Acq: 11 Oct 2019 15:14

Tgt Ion: 63 Resp: 2683

Ion Ratio Lower Upper

63 100

65 31.9 24.1 36.1



Abundance Ion 62.90 (62.60 to 63.60): VN058697.D (-2256) (-)

Ion 64.90 (64.60 to 65.60): VN058697.D (-2256) (-)

9.11

1500

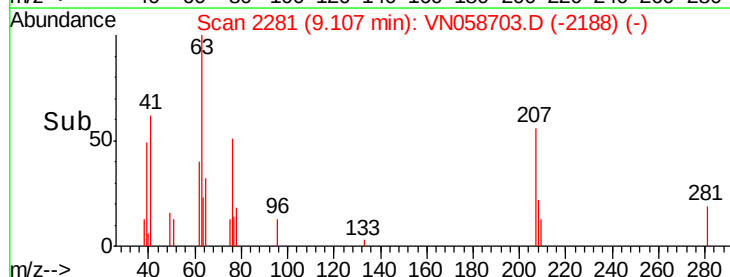
1000

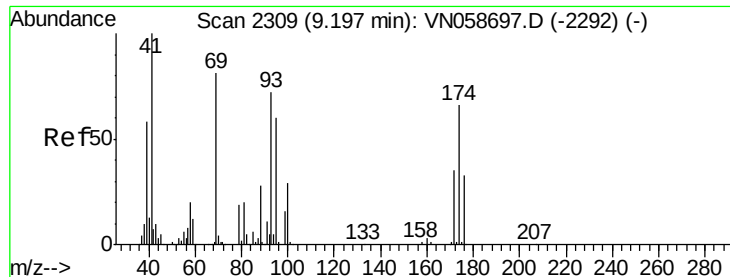
500

0

9.05 9.10 9.15

Time-->

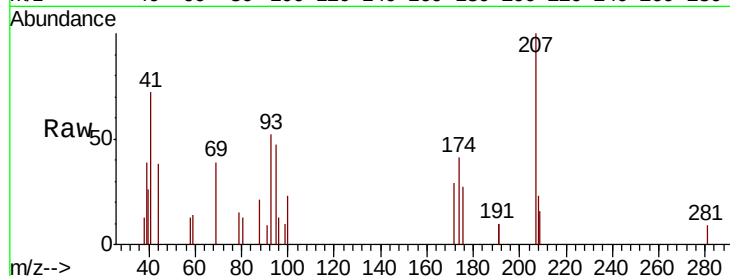




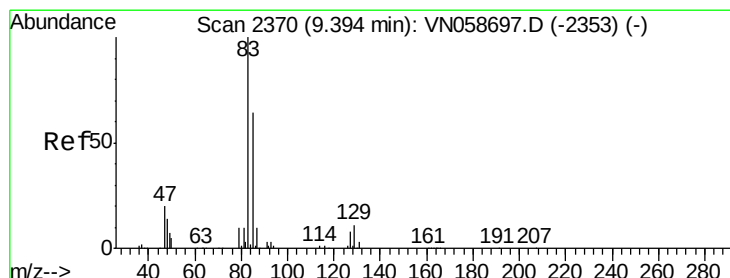
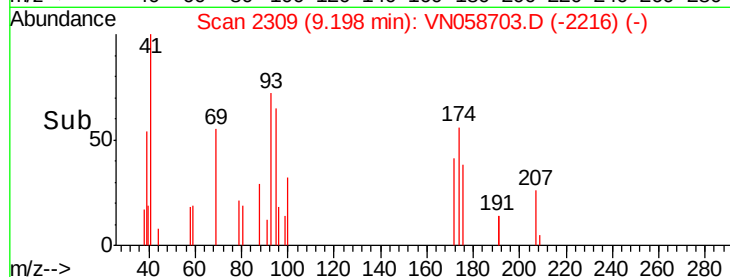
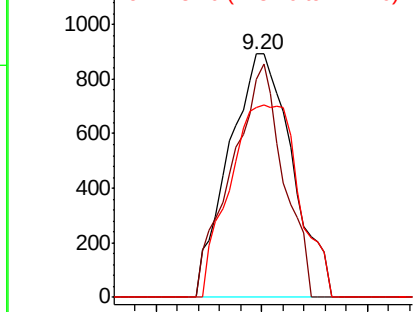
#46
Dibromomethane
Concen: 0.532 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

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

Tot Ion: 93 Resp: 1858
Ion Ratio Lower Upper
93 100
95 78.7 66.6 100.0
174 86.3 75.2 112.8

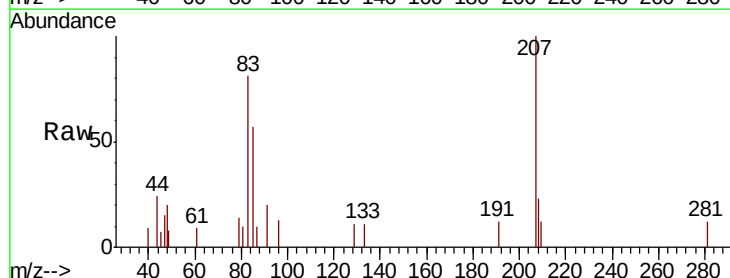


Abundance Ion 92.80 (92.50 to 93.50): VN0
Ion 94.80 (94.50 to 95.50): VN0
Ion 173.70 (173.40 to 174.40): V

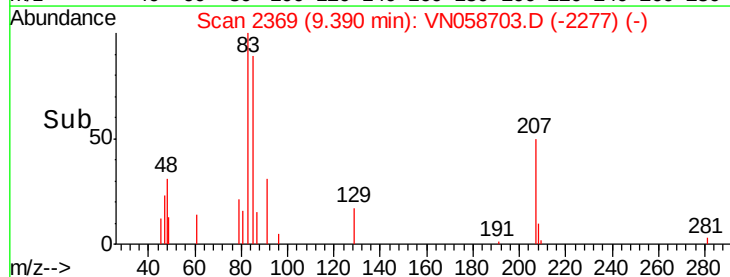
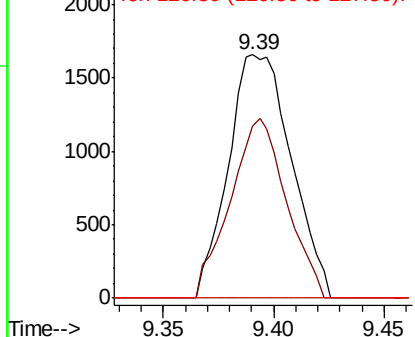


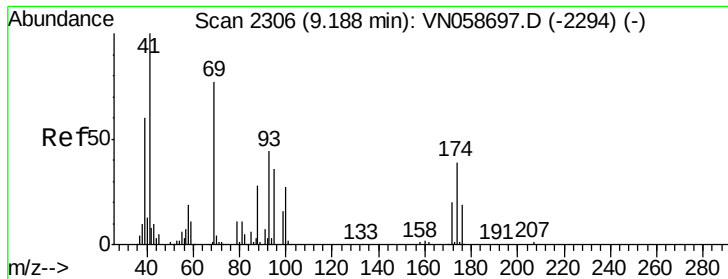
#47
Bromodichloromethane
Concen: 0.463 ug/l
RT: 9.39 min Scan# 2369
Delta R.T. -0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Tgt Ion: 83 Resp: 3295
Ion Ratio Lower Upper
83 100
85 70.7 50.9 76.3
127 0.0 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

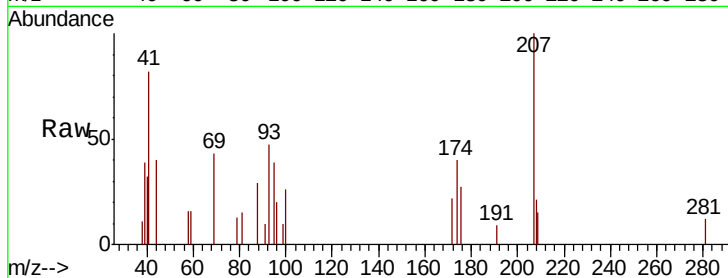




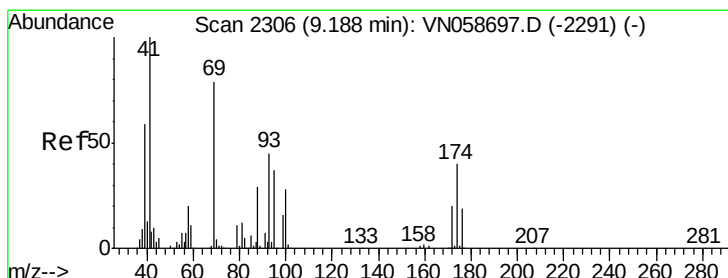
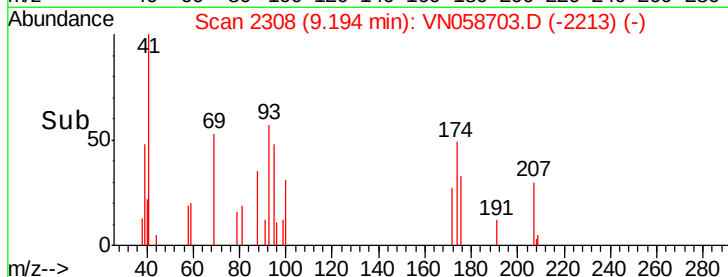
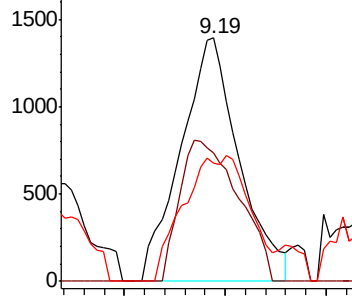
#48
Methvl methacrylate
Concen: 0.503 ug/l
RT: 9.19 min Scan# 2308
Delta R.T. 0.01 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

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

Tot Ion: 41 Resp: 2817
Ion Ratio Lower Upper
41 100
69 58.3 63.4 95.2#
39 34.0 48.9 73.3#

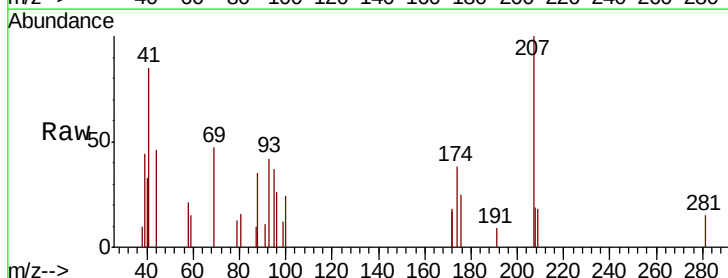


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO

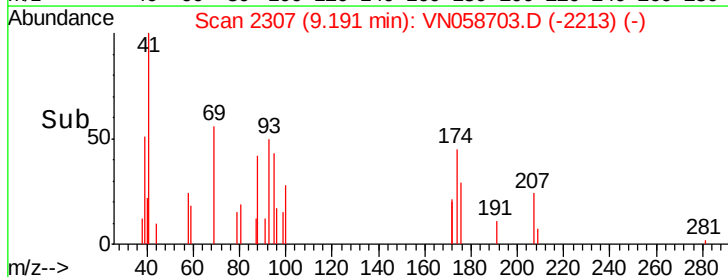
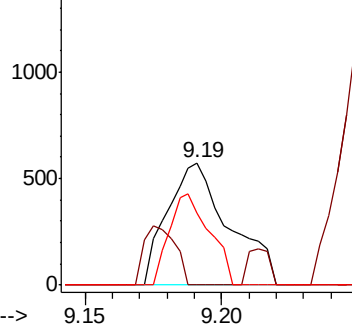


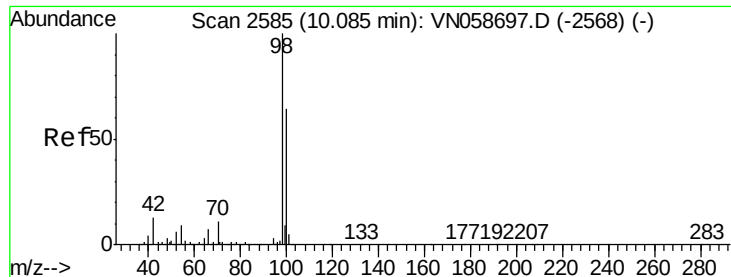
#49
1,4-Dioxane
Concen: 10.465 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Tgt Ion: 88 Resp: 906
Ion Ratio Lower Upper
88 100
43 24.1 28.6 43.0#
58 48.7 57.2 85.8#



Abundance Ion 88.00 (87.70 to 88.70): VNO
Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO

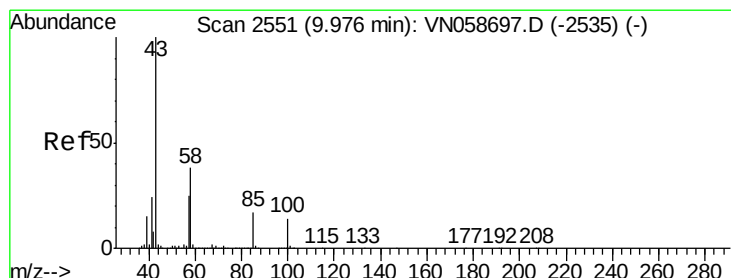
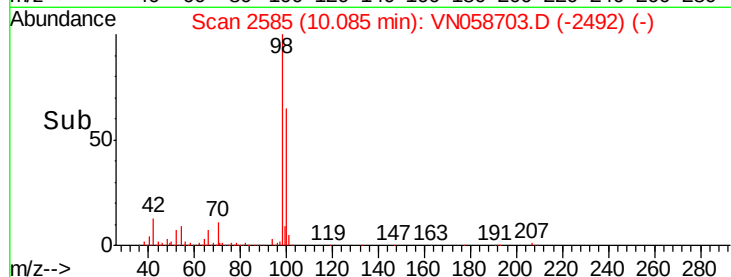
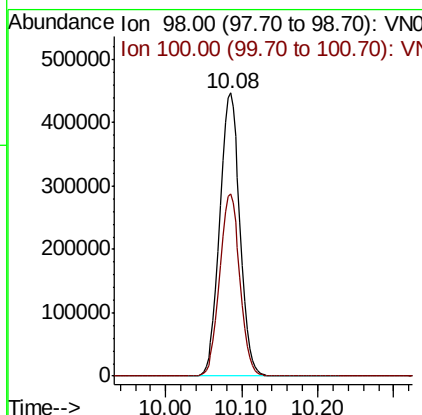
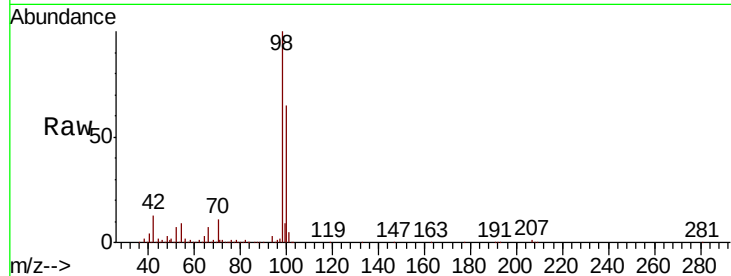




#50
Toluene-d8
Concen: 47.114 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

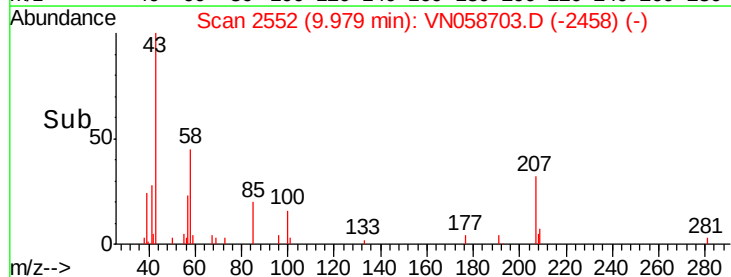
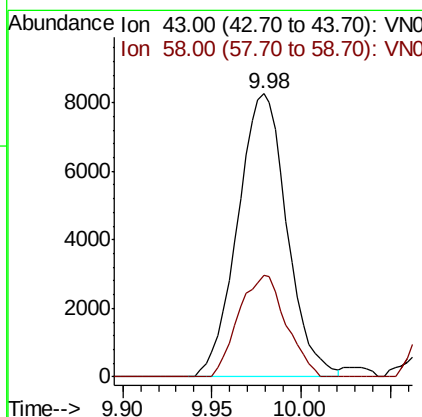
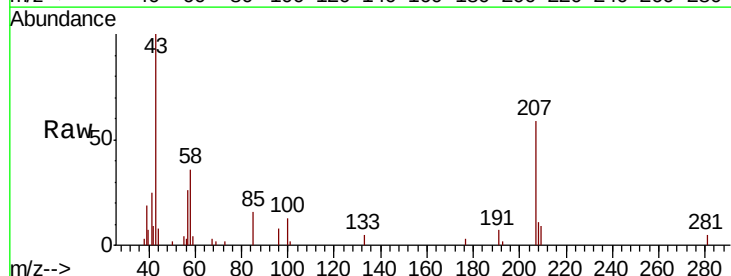
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

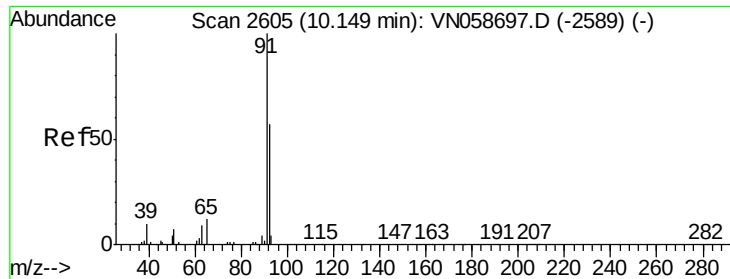
Tot Ion: 98 Resp: 824758
Ion Ratio Lower Upper
98 100
100 64.3 51.1 76.7



#51
4-Methyl-2-Pentanone
Concen: 2.298 ug/l
RT: 9.98 min Scan# 2552
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Tgt Ion: 43 Resp: 15934
Ion Ratio Lower Upper
43 100
58 34.4 30.3 45.5





#52

Toluene

Concen: 0.510 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. -0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

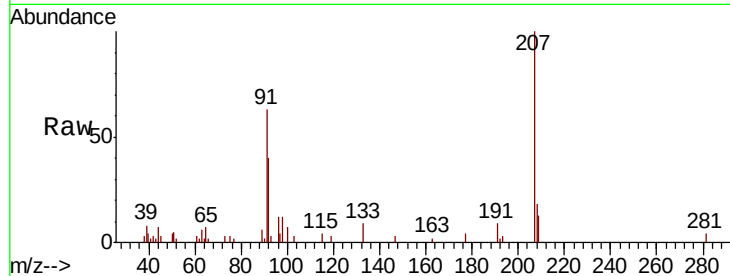
LOQ-WATER-02-QT4-2019

Tot Ion: 92 Resp: 6414

Ion Ratio Lower Upper

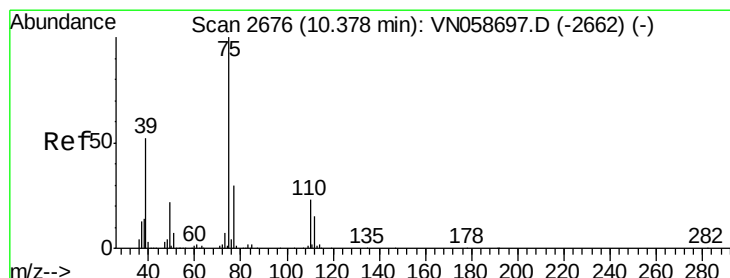
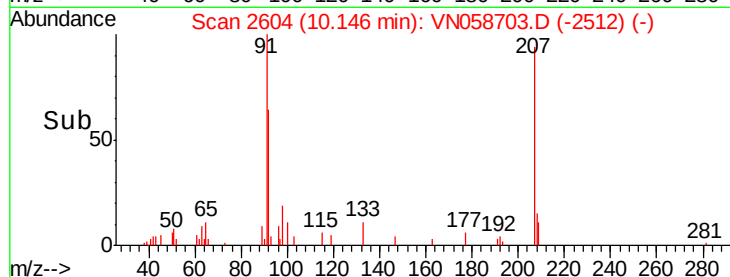
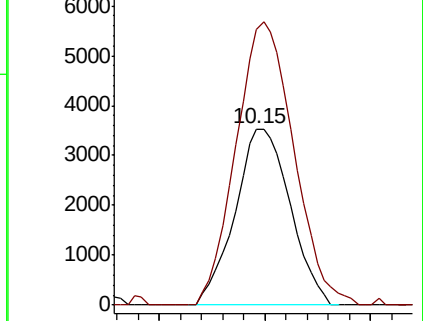
92 100

91 168.5 139.1 208.7



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#53

t-1,3-Dichloropropene

Concen: 0.443 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN058703.D

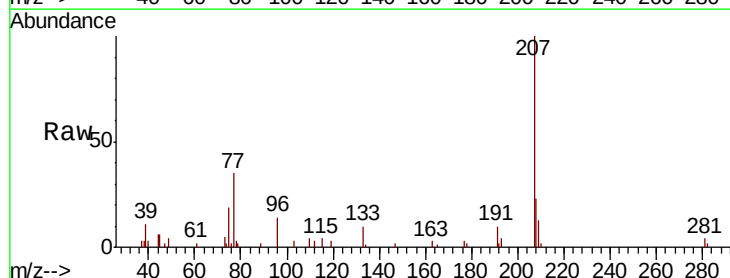
Acq: 11 Oct 2019 15:14

Tgt Ion: 75 Resp: 3610

Ion Ratio Lower Upper

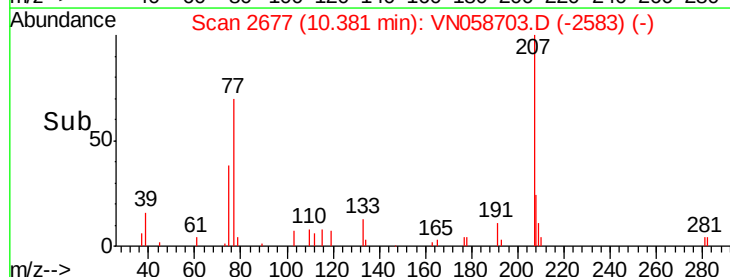
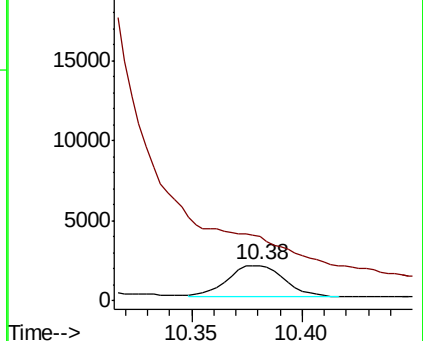
75 100

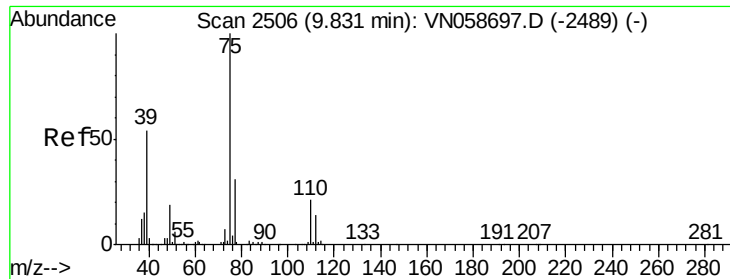
77 90.8 26.2 39.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



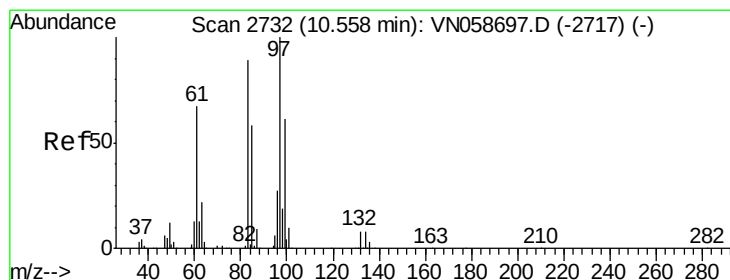
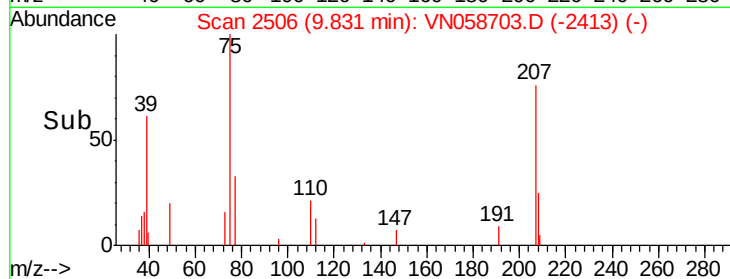
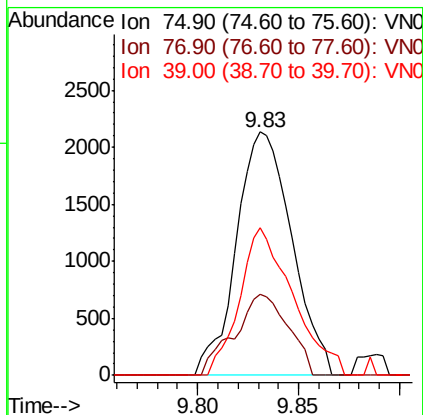
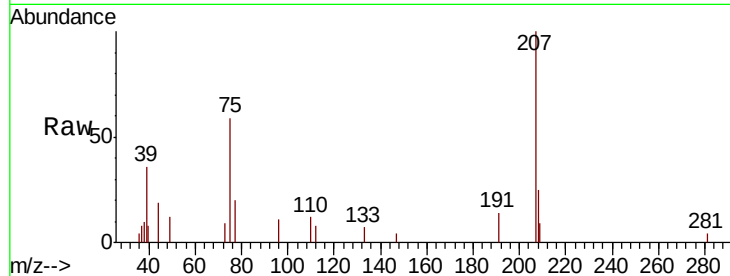


#54

cis-1,3-Dichloropropene
 Concen: 0.473 ug/l
 RT: 9.83 min Scan# 2506
 Delta R.T. 0.00 min
 Lab File: VN058703.D
 Acq: 11 Oct 2019 15:14

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

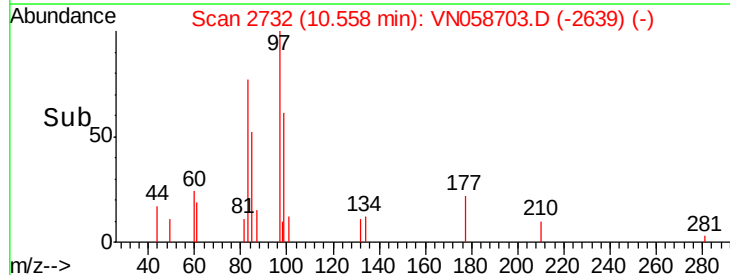
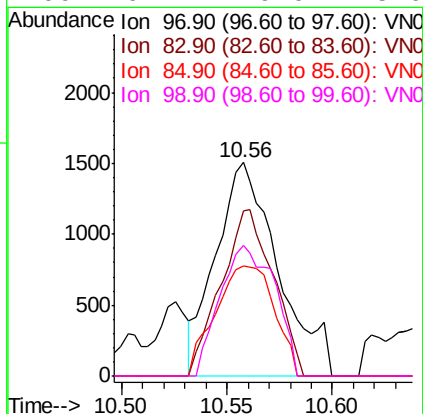
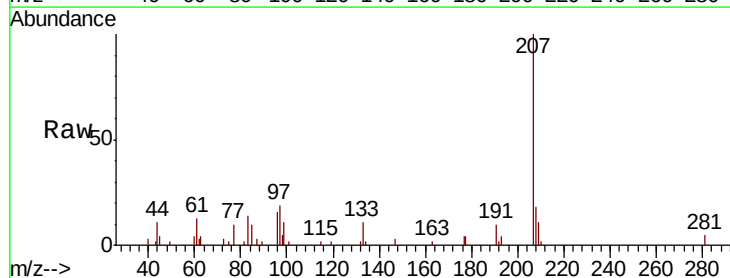
Tot Ion	Ratio	Lower	Upper
75	100		
77	33.1	24.4	36.6
39	60.5	43.1	64.7

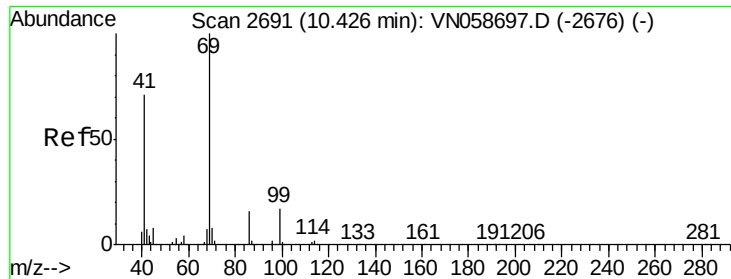


#55

1,1,2-Trichloroethane
 Concen: 0.601 ug/l
 RT: 10.56 min Scan# 2732
 Delta R.T. 0.00 min
 Lab File: VN058703.D
 Acq: 11 Oct 2019 15:14

Tgt Ion	Ratio	Lower	Upper
97	100		
83	77.2	71.2	106.8
85	51.6	46.7	70.1
99	61.2	49.0	73.6





#56

Ethyl methacrylate

Concen: 0.395 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

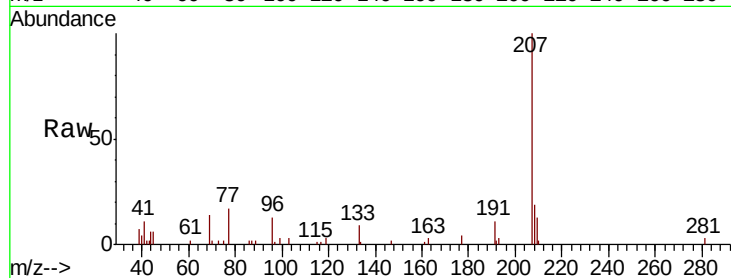
Tot Ion: 69 Resp: 2970

Ion Ratio Lower Upper

69 100

41 87.5 56.8 85.2#

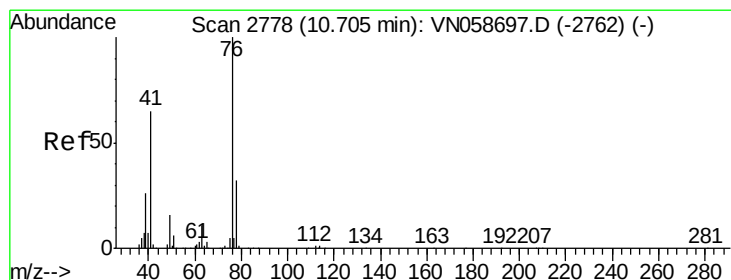
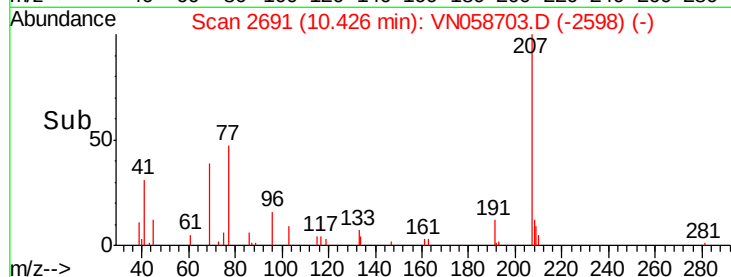
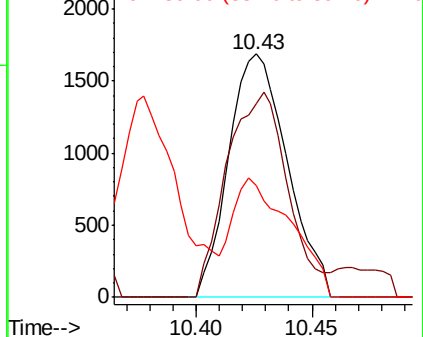
39 49.0 32.5 48.7#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.495 ug/l

RT: 10.70 min Scan# 2777

Delta R.T. -0.00 min

Lab File: VN058703.D

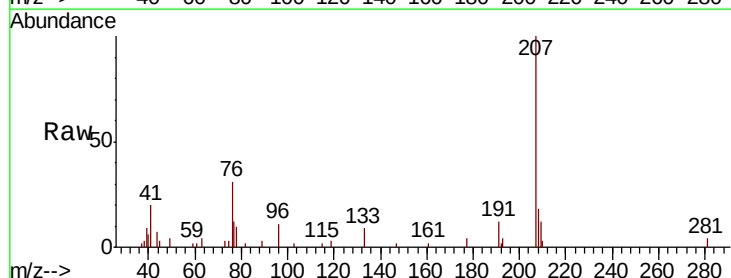
Acq: 11 Oct 2019 15:14

Tgt Ion: 76 Resp: 4343

Ion Ratio Lower Upper

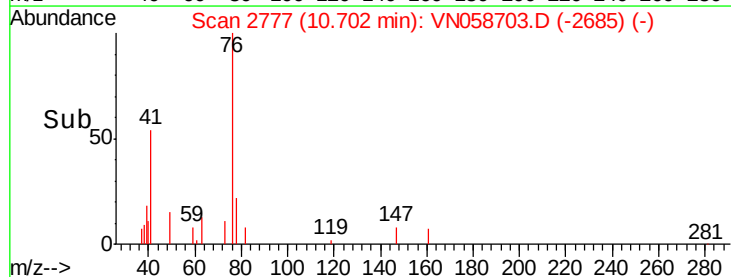
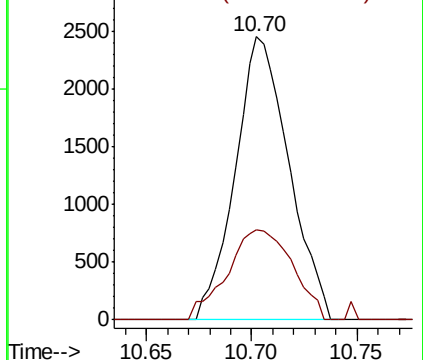
76 100

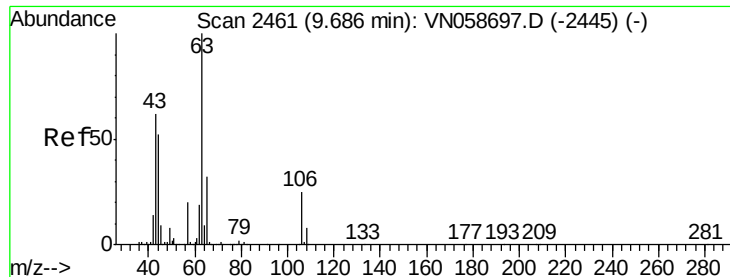
78 38.8 25.9 38.9



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

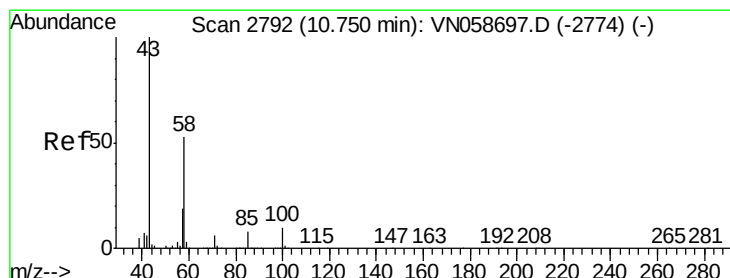
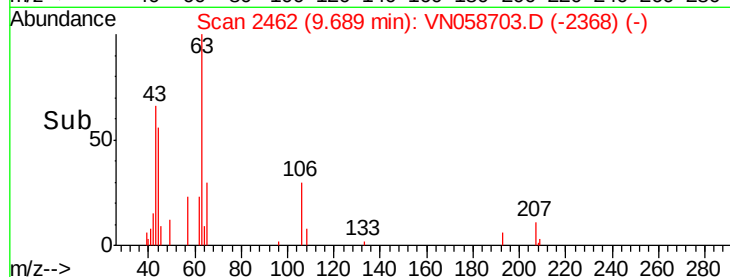
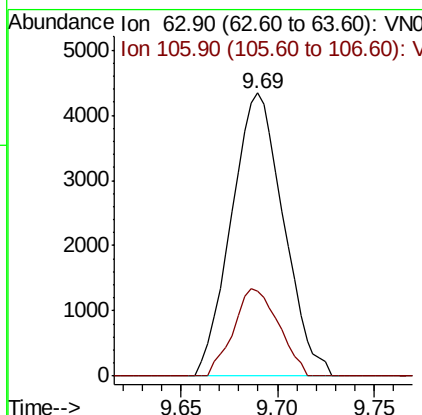
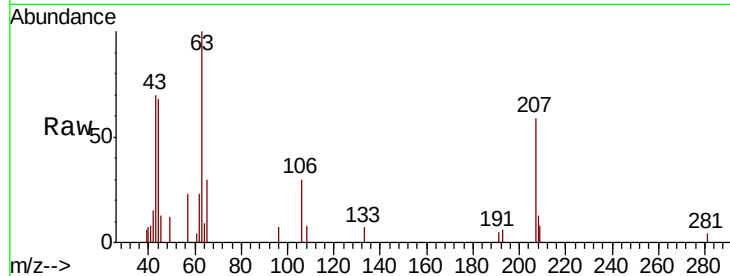




#58
 2-Chloroethyl Vinyl ether
 Concen: 2.240 ug/l
 RT: 9.69 min Scan# 2462
 Delta R.T. 0.00 min
 Lab File: VN058703.D
 Acq: 11 Oct 2019 15:14

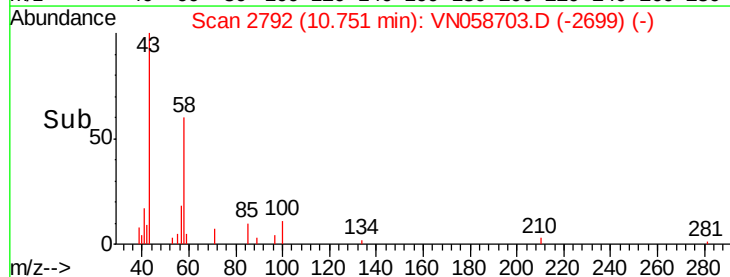
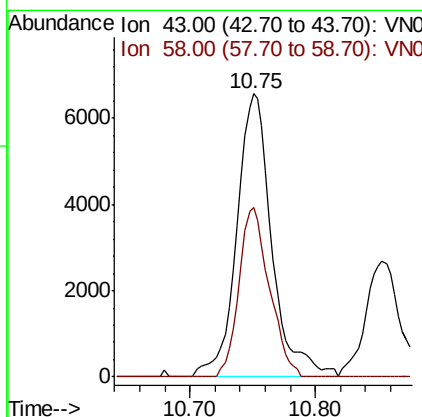
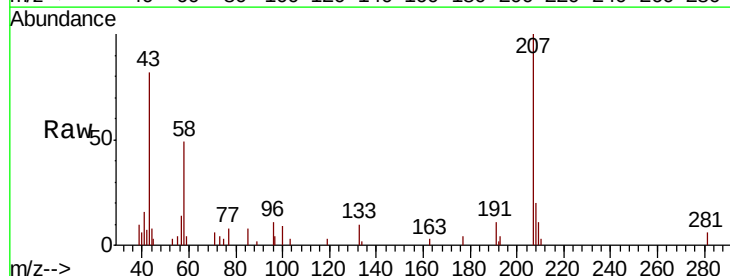
Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

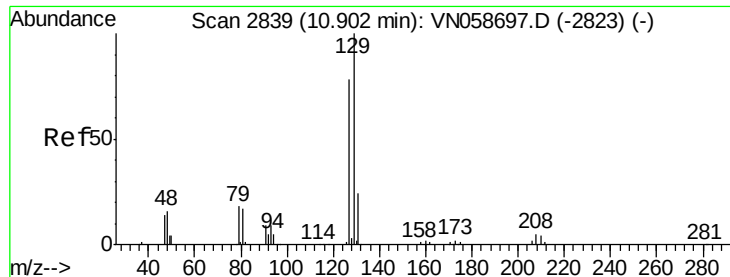
Tot Ion: 63 Resp: 8125
 Ion Ratio Lower Upper
 63 100
 106 26.7 20.0 30.0



#59
 2-Hexanone
 Concen: 2.384 ug/l
 RT: 10.75 min Scan# 2792
 Delta R.T. 0.00 min
 Lab File: VN058703.D
 Acq: 11 Oct 2019 15:14

Tgt Ion: 43 Resp: 12776
 Ion Ratio Lower Upper
 43 100
 58 51.7 26.1 78.3





#60

Dibromochloromethane

Concen: 0.484 ug/l

RT: 10.90 min Scan# 2837

Delta R.T. -0.01 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

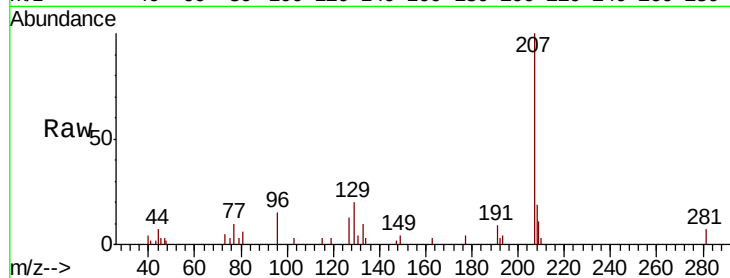
LOQ-WATER-02-QT4-2019

Tot Ion:129 Resp: 2571

Ion Ratio Lower Upper

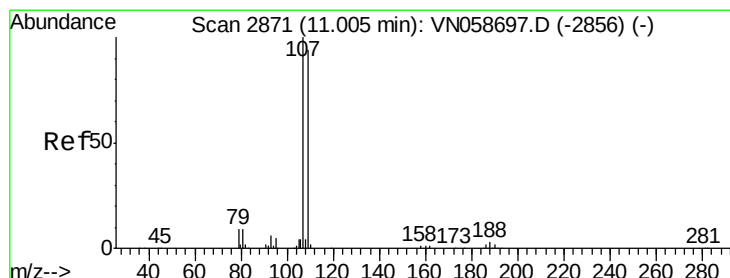
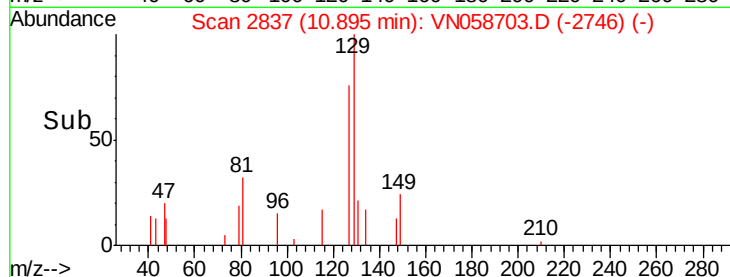
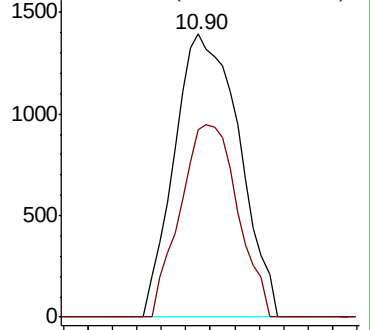
129 100

127 60.2 38.5 115.3



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#61

1,2-Dibromoethane

Concen: 0.451 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN058703.D

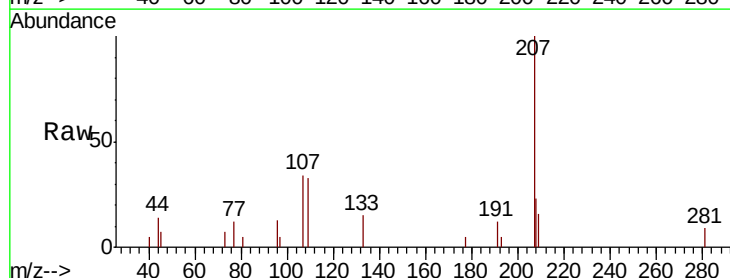
Acq: 11 Oct 2019 15:14

Tgt Ion:107 Resp: 2327

Ion Ratio Lower Upper

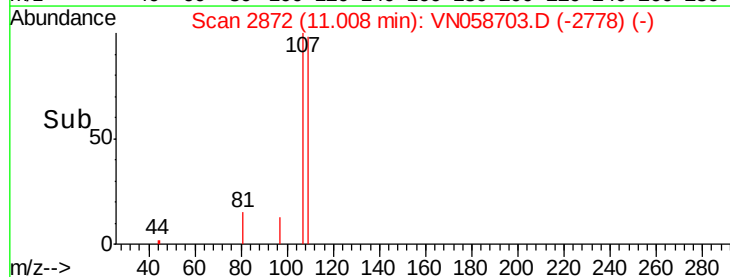
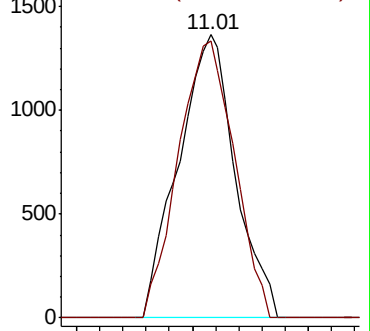
107 100

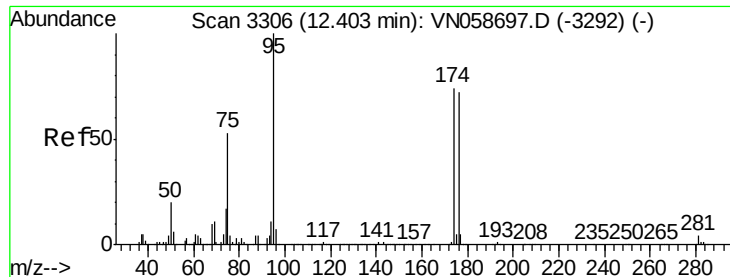
109 96.3 75.4 113.0



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

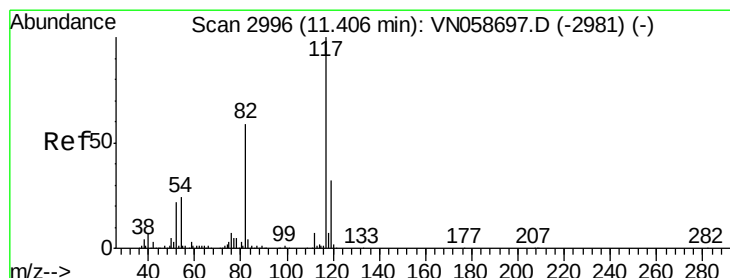
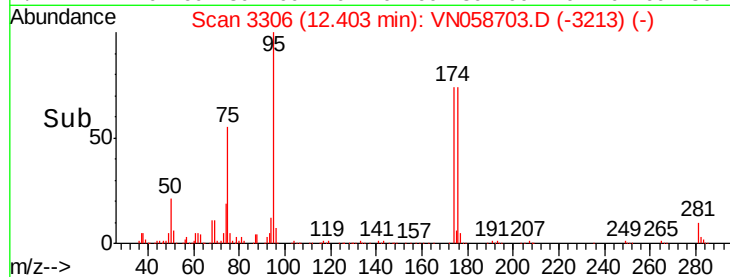
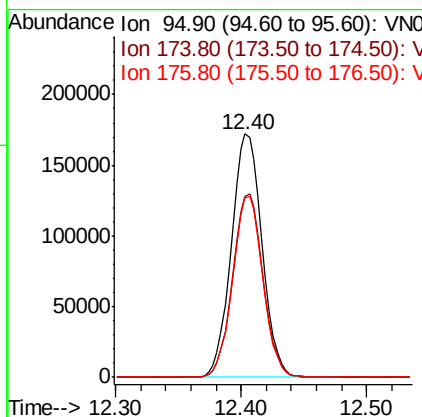
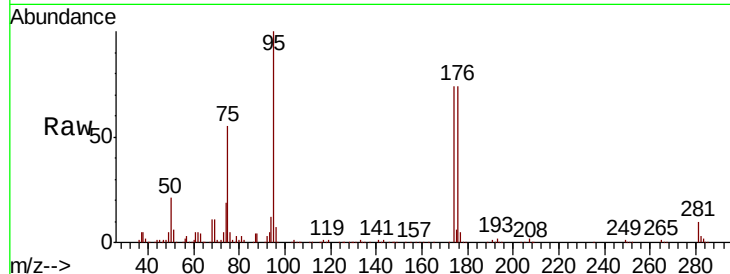




#62
4-Bromofluorobenzene
Concen: 43.941 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

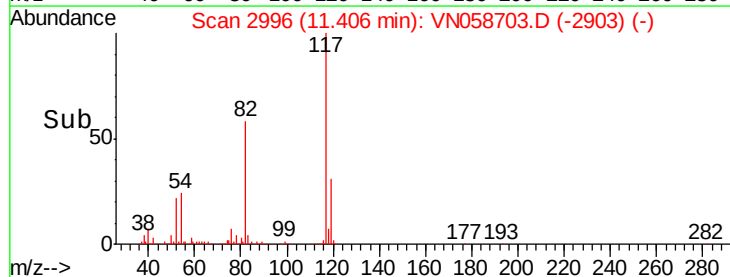
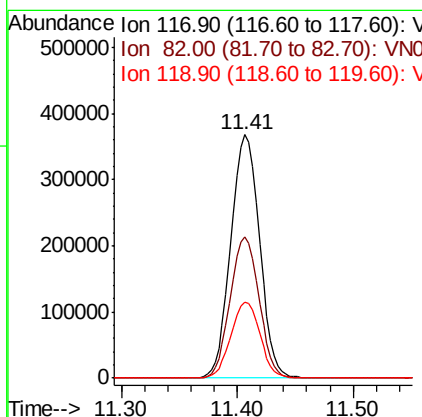
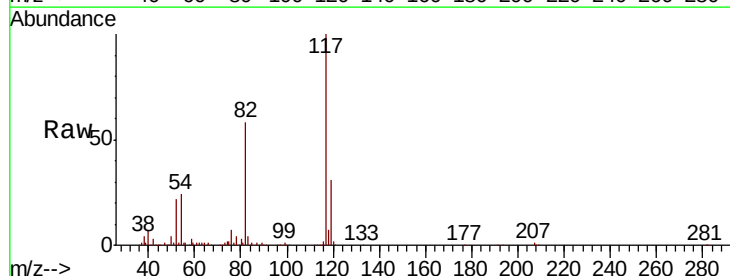
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

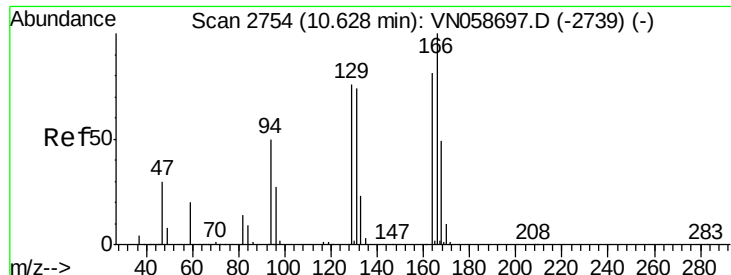
Tot Ion	Ratio	Lower	Upper
95	100		
174	75.1	0.0	150.4
176	73.5	0.0	146.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Tgt Ion	Ratio	Lower	Upper
117	100		
82	57.8	47.0	70.4
119	31.5	25.4	38.2





#64

Tetrachloroethene

Concen: 0.641 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion:164 Resp: 2838

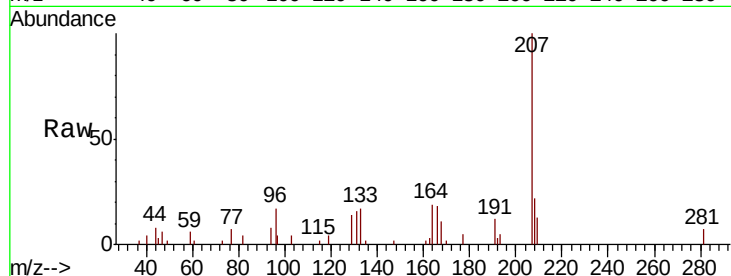
Ion Ratio Lower Upper

164 100

166 96.8 99.3 148.9#

129 76.4 75.2 112.8

131 86.3 73.0 109.4

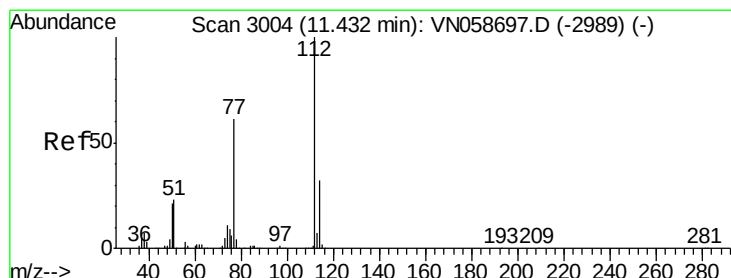
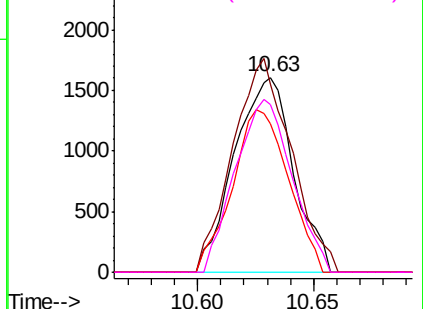
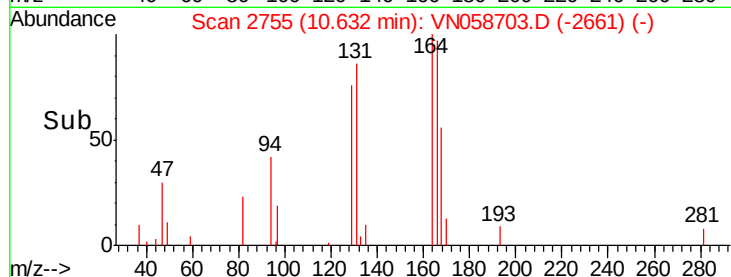


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#65

Chlorobenzene

Concen: 0.493 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN058703.D

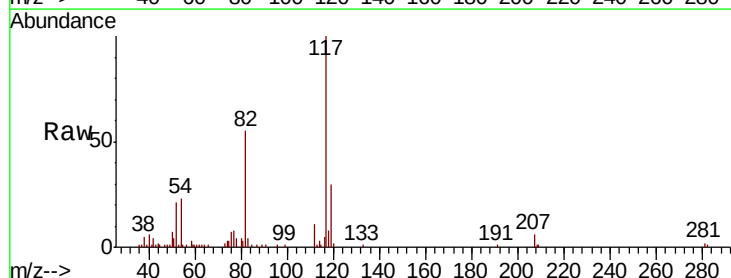
Acq: 11 Oct 2019 15:14

Tgt Ion:112 Resp: 6330

Ion Ratio Lower Upper

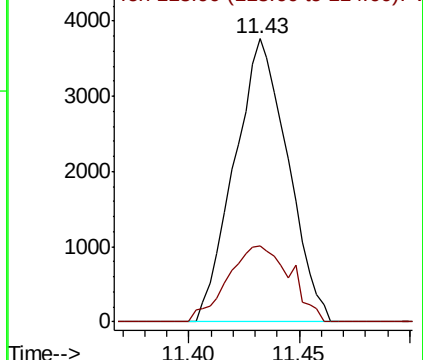
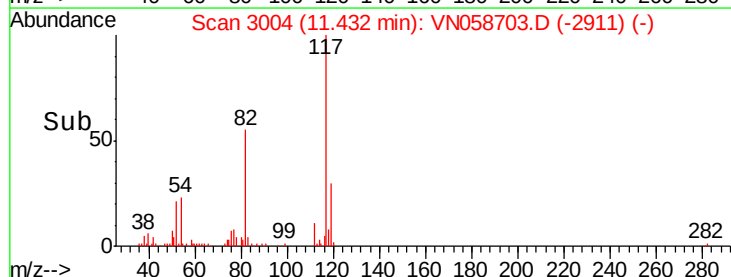
112 100

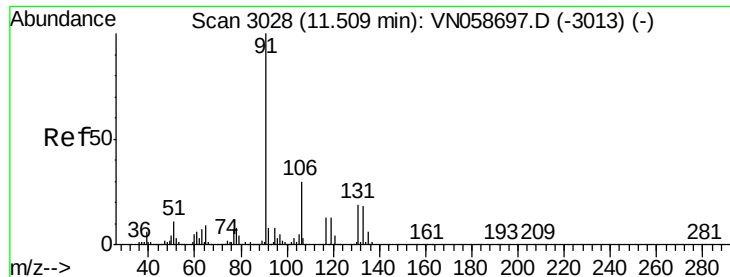
114 26.8 25.2 37.8



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: 0.449 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

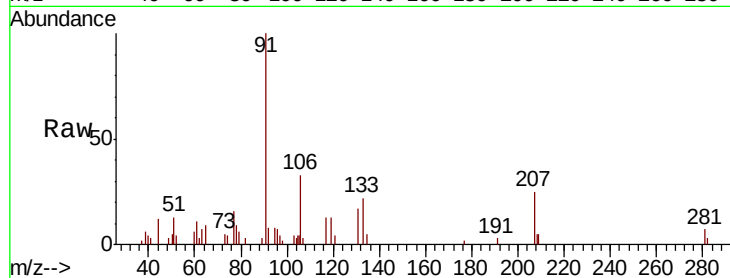
Tot Ion:131 Resp: 2130

Ion Ratio Lower Upper

131 100

133 132.1 47.6 142.9

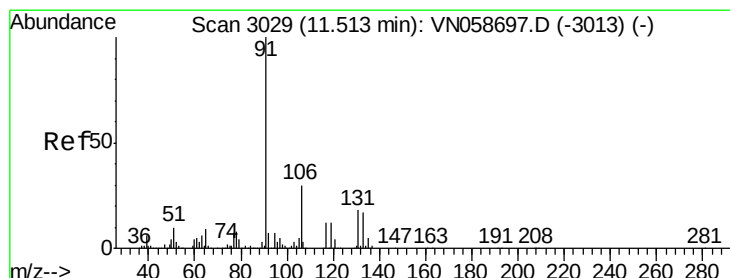
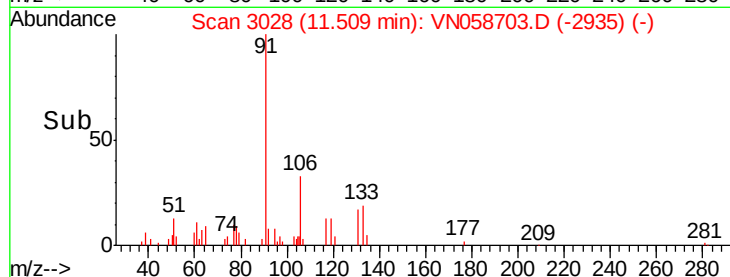
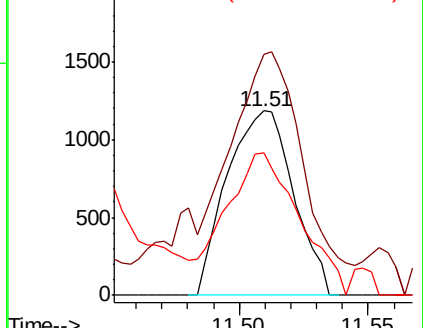
119 0.0 33.0 98.9#



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V



#67

Ethyl Benzene

Concen: 0.501 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN058703.D

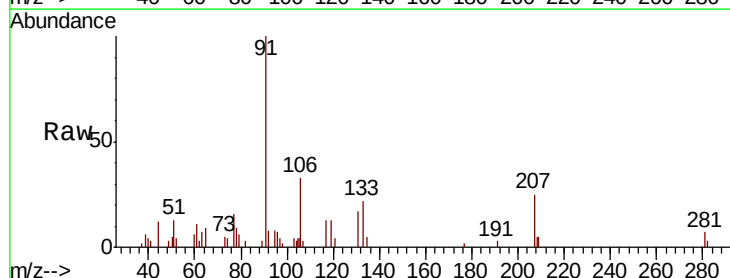
Acq: 11 Oct 2019 15:14

Tgt Ion: 91 Resp: 11457

Ion Ratio Lower Upper

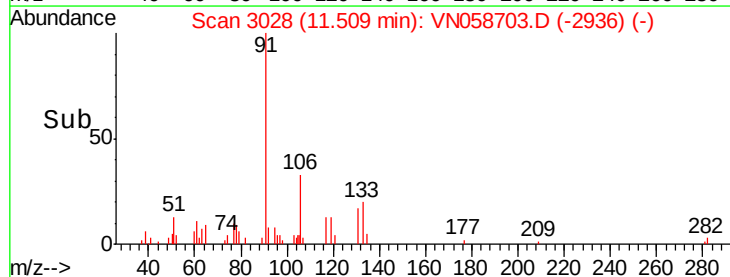
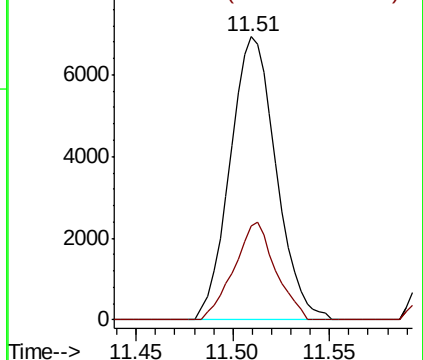
91 100

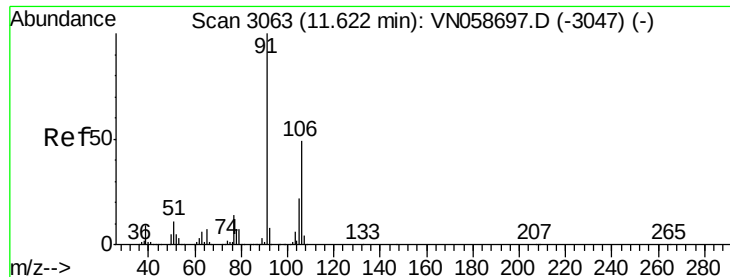
106 33.1 24.1 36.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V

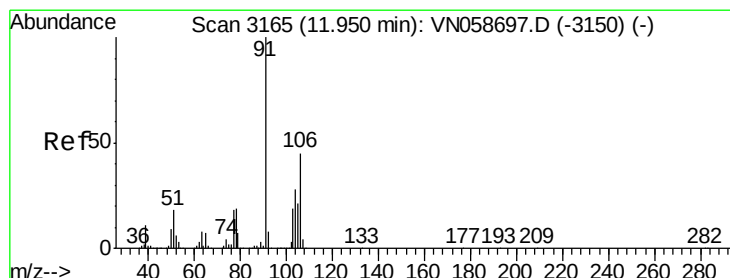
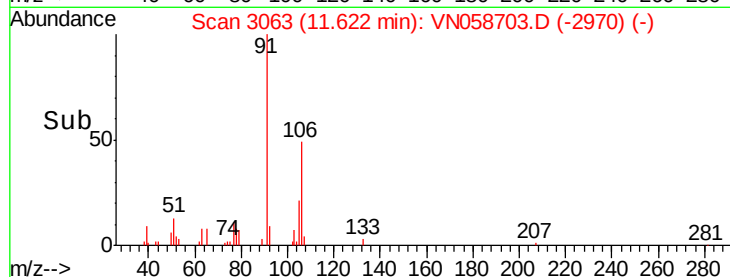
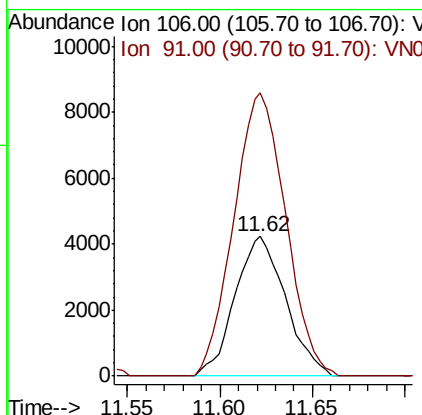
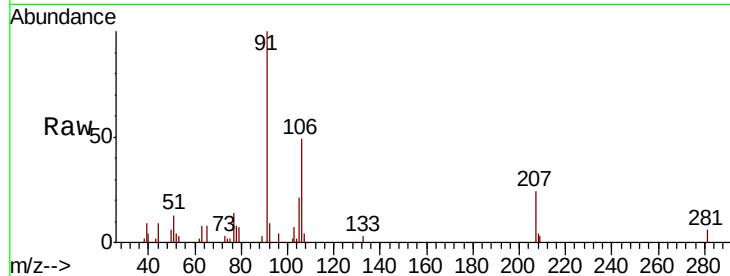




#68
m/p-Xylenes
Concen: 0.933 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

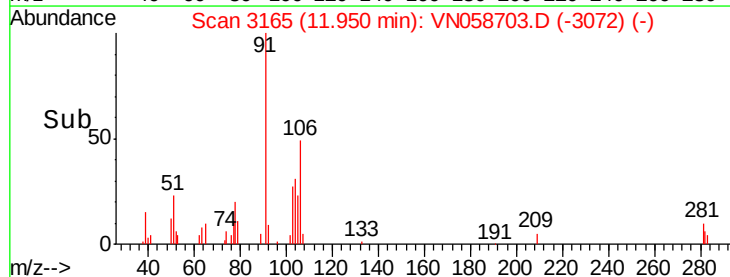
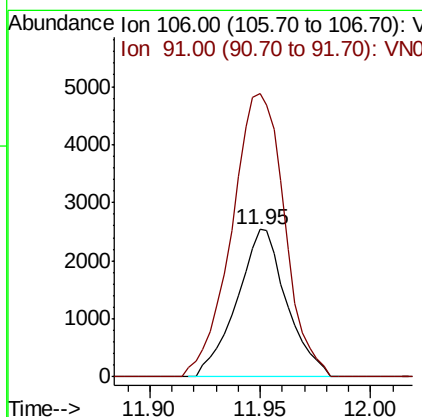
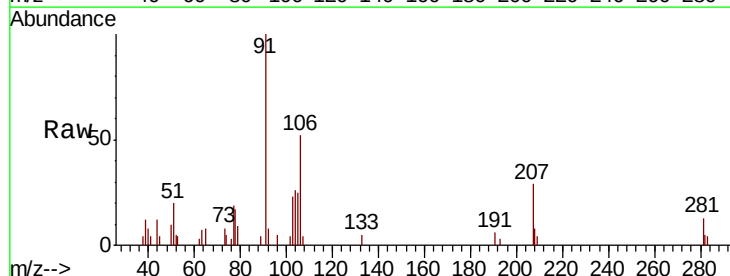
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

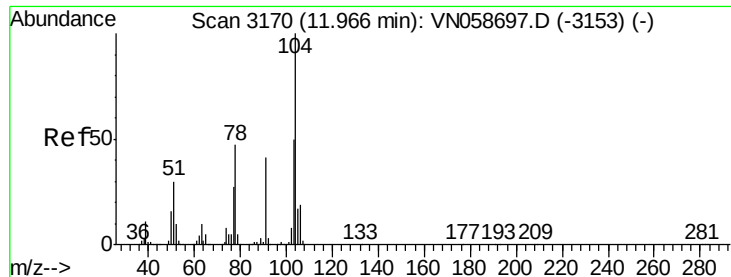
Tot Ion:106 Resp: 8009
Ion Ratio Lower Upper
106 100
91 208.0 165.7 248.5



#69
o-Xylene
Concen: 0.478 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Tgt Ion:106 Resp: 3975
Ion Ratio Lower Upper
106 100
91 205.0 110.9 332.9

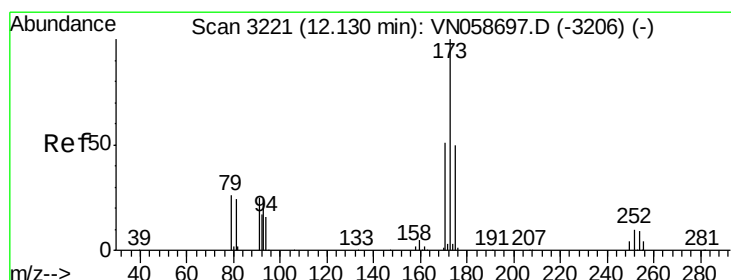
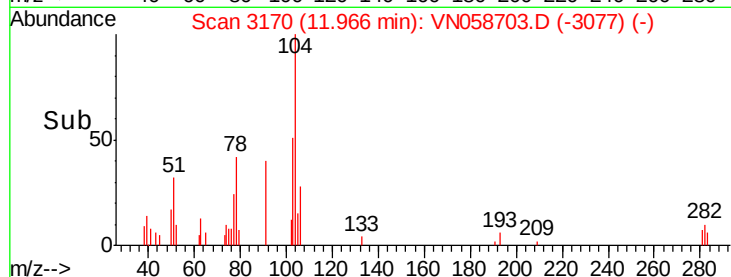
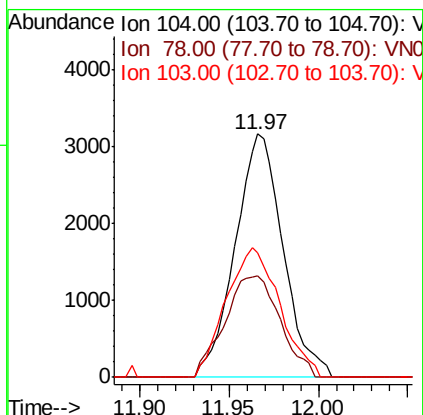
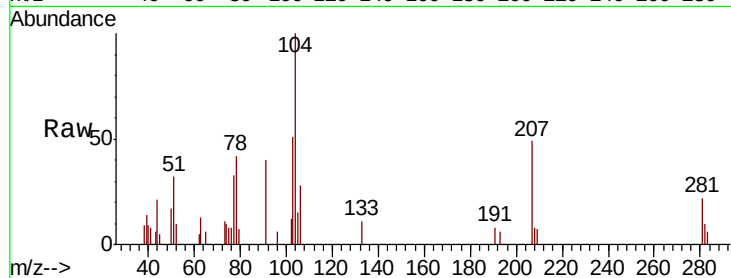




#70
Stvrene
Concen: 0.434 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

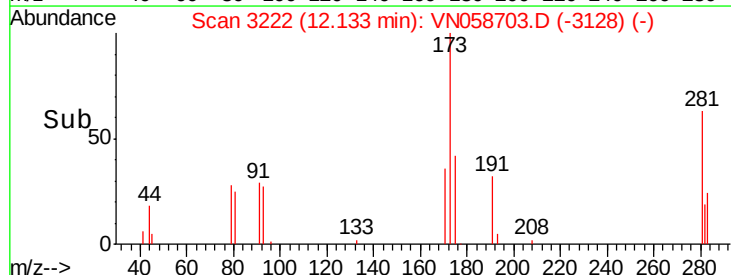
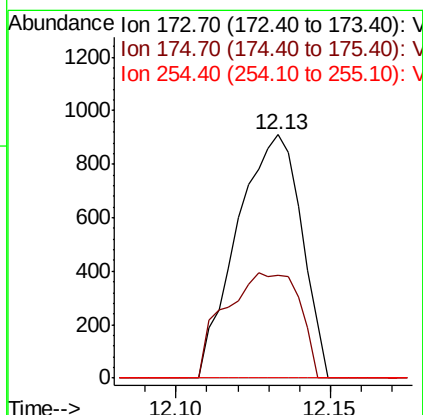
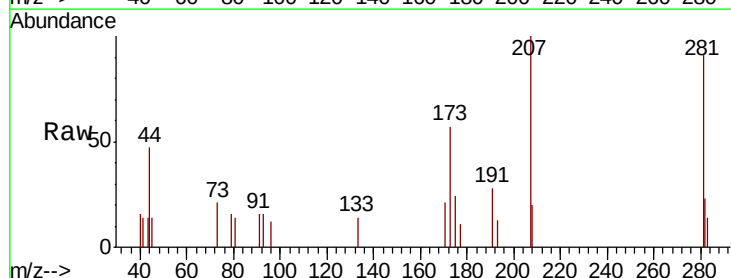
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

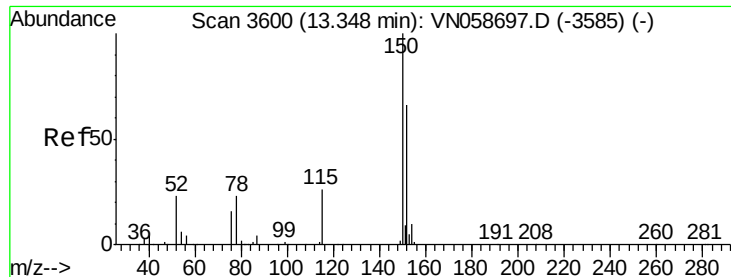
Tot Ion:104 Resp: 5916
Ion Ratio Lower Upper
104 100
78 48.1 42.2 63.2
103 59.4 43.7 65.5



#71
Bromoform
Concen: 0.378 ug/l
RT: 12.13 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Tgt Ion:173 Resp: 1315
Ion Ratio Lower Upper
173 100
175 50.1 24.6 73.8
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

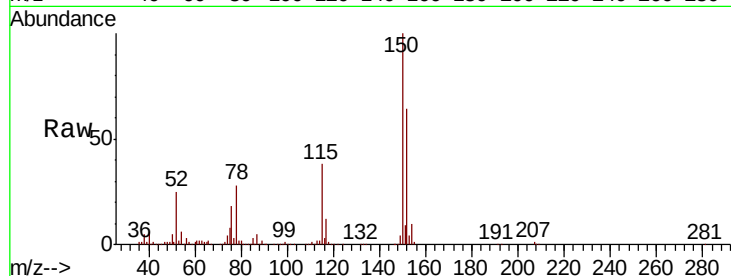
Tot Ion:152 Resp: 270865

Ion Ratio Lower Upper

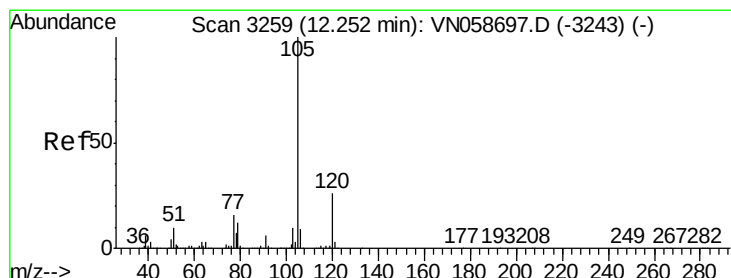
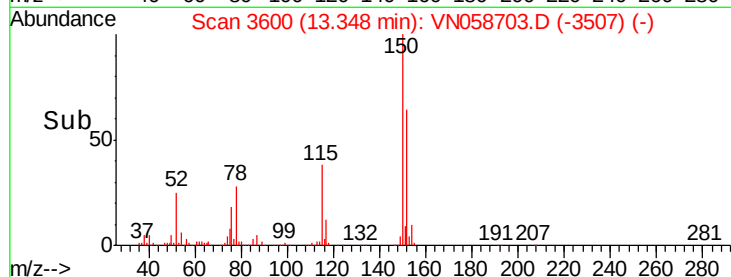
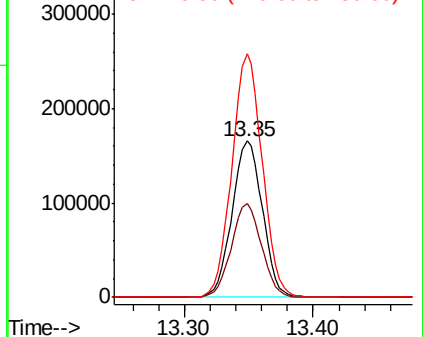
152 100

115 59.0 30.4 91.2

150 155.3 0.0 345.4



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



#73

Isopropylbenzene

Concen: 0.525 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN058703.D

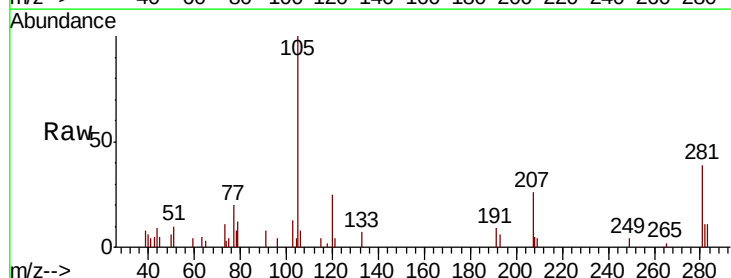
Acq: 11 Oct 2019 15:14

Tgt Ion:105 Resp: 10296

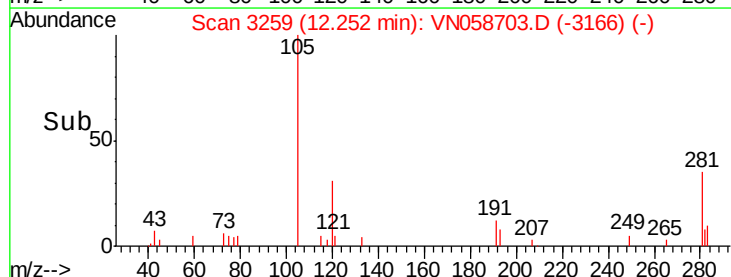
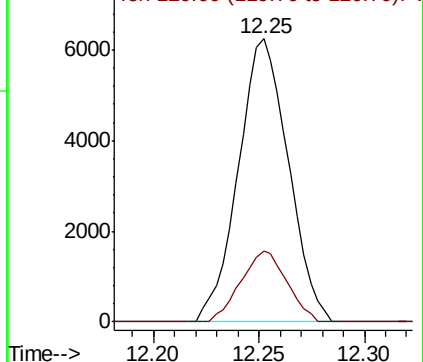
Ion Ratio Lower Upper

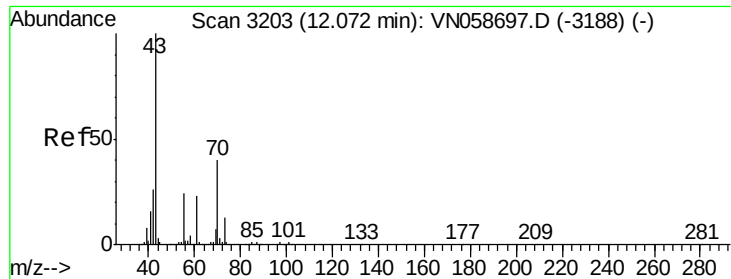
105 100

120 23.0 13.1 39.1



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 0.448 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

Tot Ion: 43 Resp: 3951

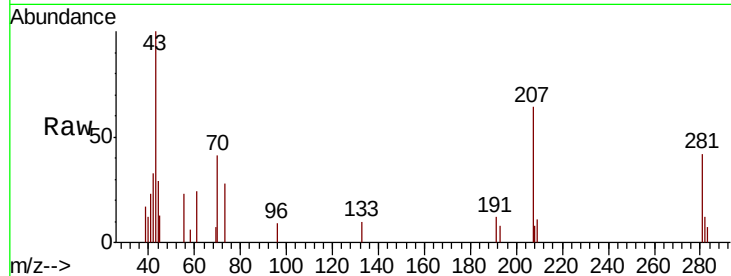
Ion Ratio Lower Upper

43 100

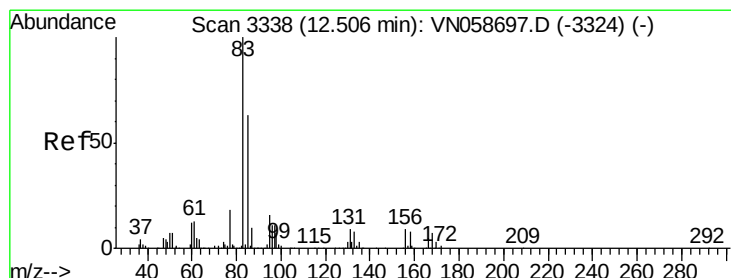
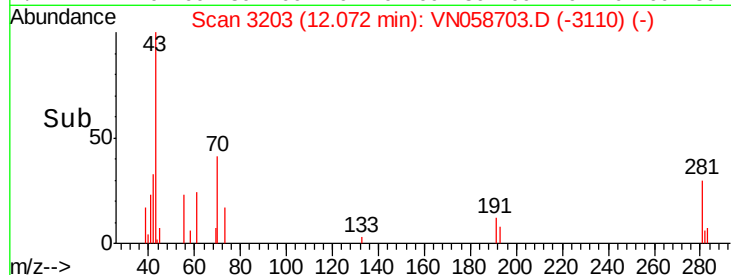
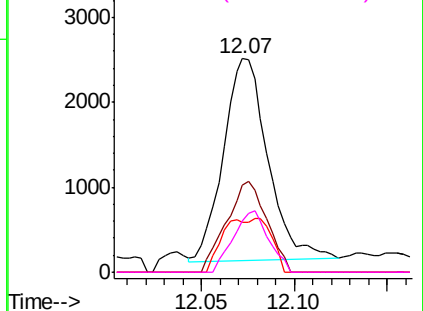
70 40.8 32.2 48.4

55 13.8 19.6 29.4#

61 24.0 18.6 28.0



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 70.00 (69.70 to 70.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 61.00 (60.70 to 61.70): VNO



#75

1,1,2,2-Tetrachloroethane

Concen: 0.538 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

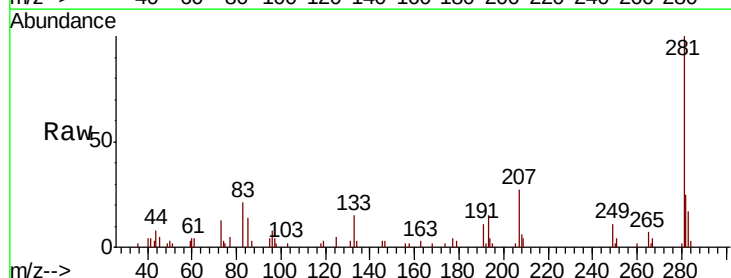
Tgt Ion: 83 Resp: 3476

Ion Ratio Lower Upper

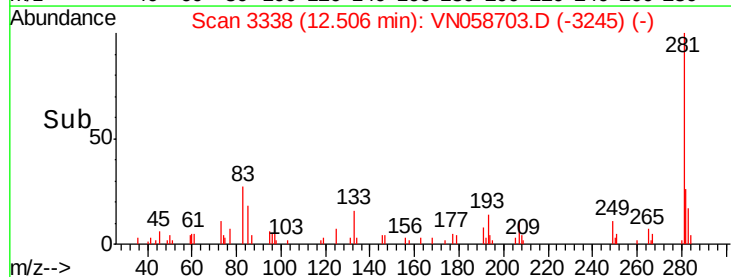
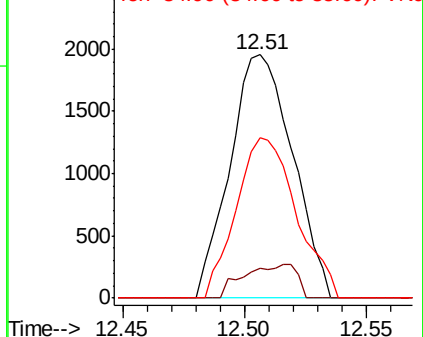
83 100

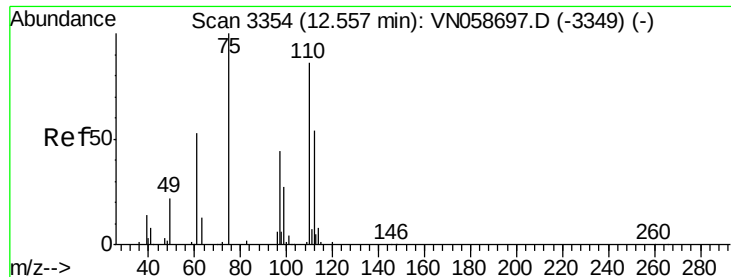
131 11.7 4.8 14.4

85 63.4 31.9 95.5



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 130.80 (130.50 to 131.50): V
Ion 84.90 (84.60 to 85.60): VNO





#76

1,2,3-Trichloropropane

Concen: 0.998 ug/l

RT: 12.56 min Scan# 3354

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

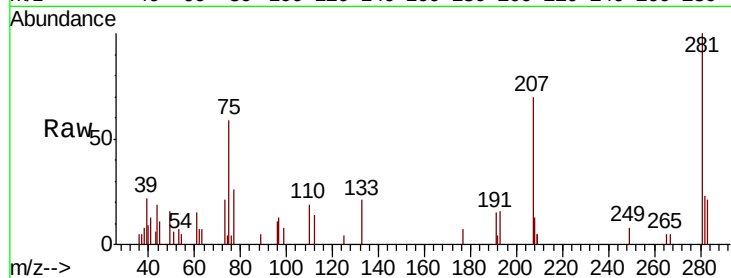
LOQ-WATER-02-QT4-2019

Tot Ion: 75 Resp: 5932

Ion Ratio Lower Upper

75 100

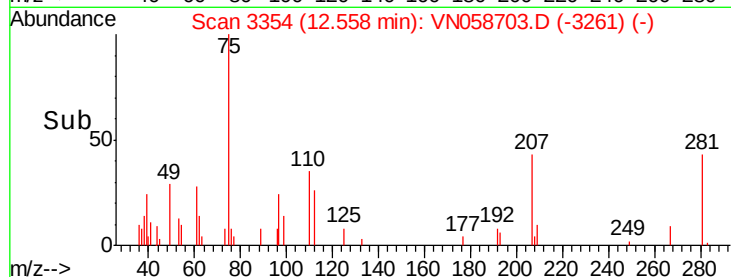
77 0.0 0.0 0.0



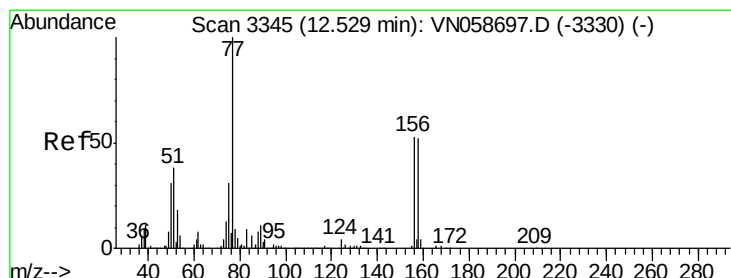
Abundance Ion 74.90 (74.60 to 75.60): VN058697.D (-3349) (-)

Ion 77.00 (76.70 to 77.70): VN058697.D (-3349) (-)

Time-->



Time-->



#77

Bromobenzene

Concen: 0.493 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

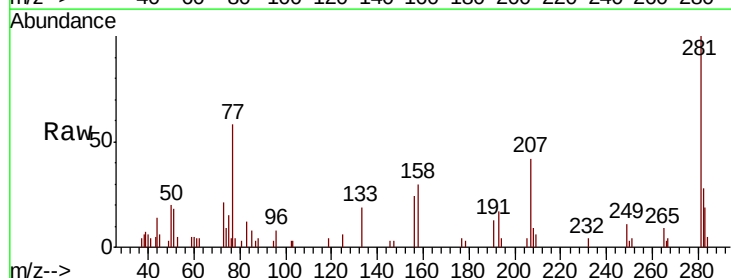
Tgt Ion: 156 Resp: 2352

Ion Ratio Lower Upper

156 100

77 237.4 115.8 347.3

158 111.1 48.9 146.6

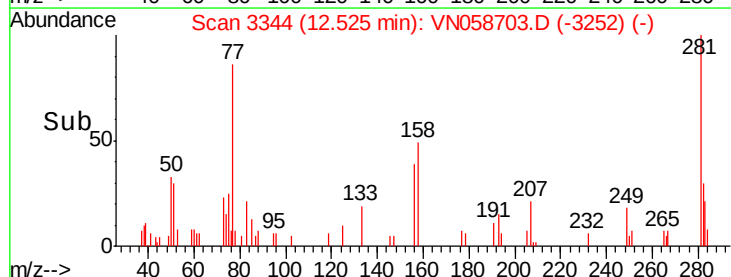


Abundance Ion 155.80 (155.50 to 156.50): VN058697.D (-3330) (-)

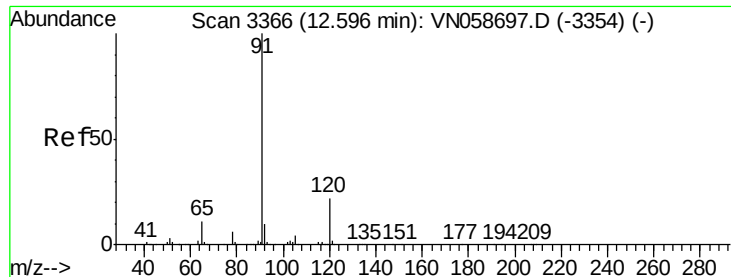
Ion 77.00 (76.70 to 77.70): VN058697.D (-3330) (-)

Ion 157.80 (157.50 to 158.50): VN058697.D (-3330) (-)

Time-->



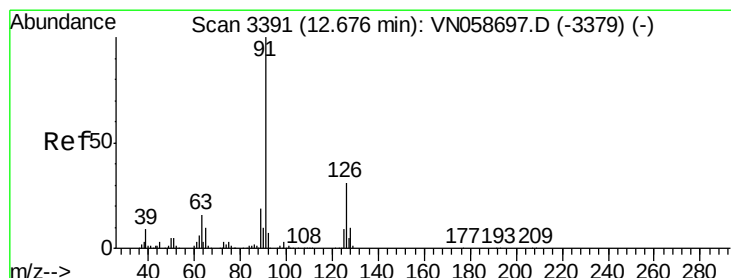
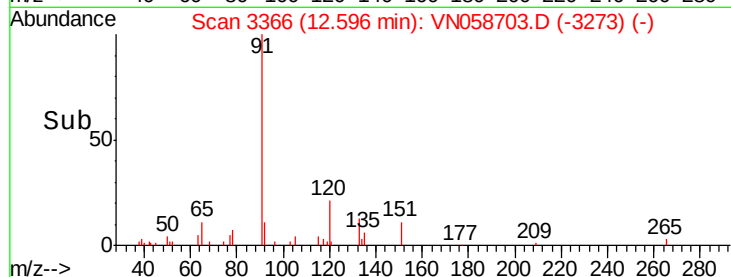
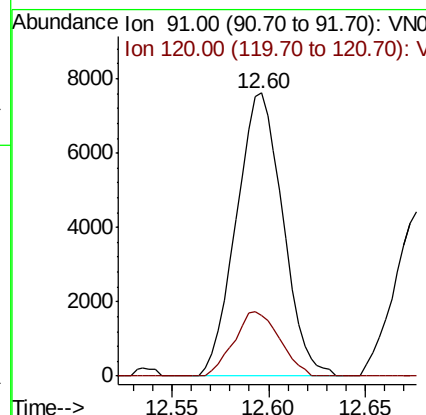
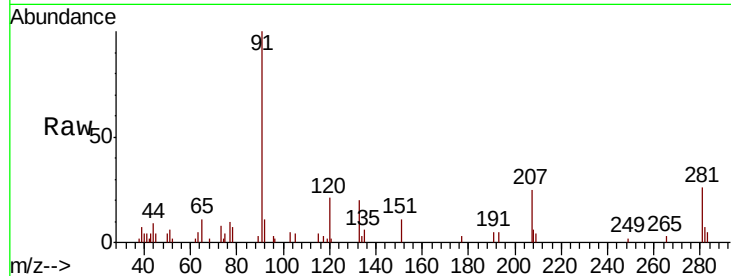
Time-->



#78
n-propylbenzene
Concen: 0.556 ug/l
RT: 12.60 min Scan# 3366
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

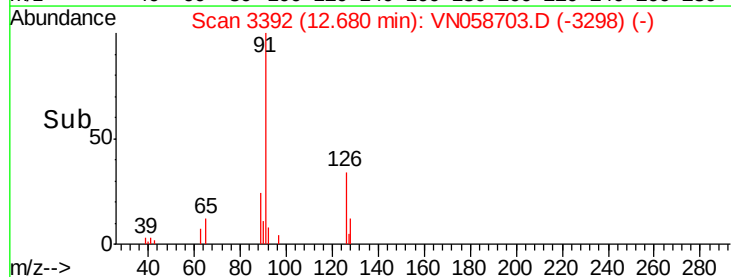
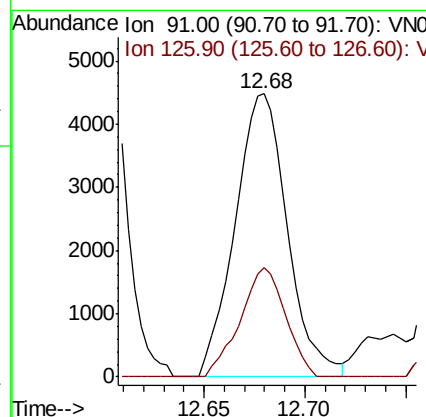
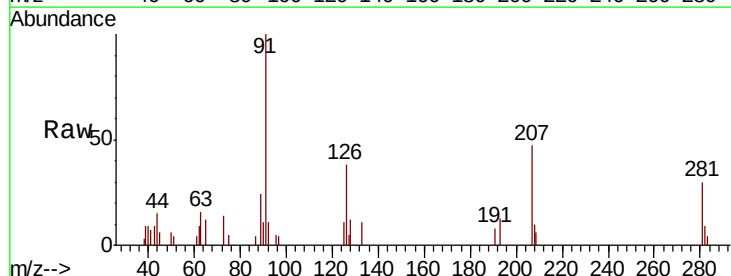
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT4-2019

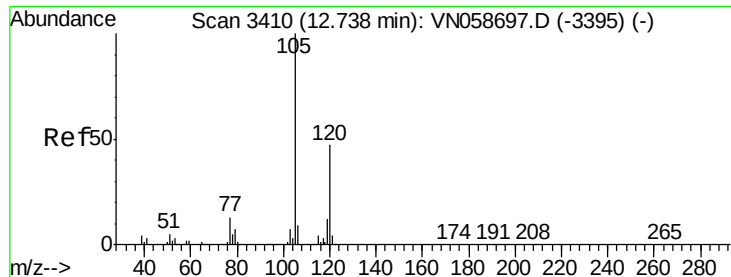
Tot Ion: 91 Resp: 12717
Ion Ratio Lower Upper
91 100
120 22.3 11.1 33.3



#79
2-Chlorotoluene
Concen: 0.573 ug/l
RT: 12.68 min Scan# 3392
Delta R.T. 0.00 min
Lab File: VN058703.D
Acq: 11 Oct 2019 15:14

Tgt Ion: 91 Resp: 8125
Ion Ratio Lower Upper
91 100
126 33.4 16.2 48.5





#80

1,3,5-Trimethylbenzene

Concen: 0.506 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

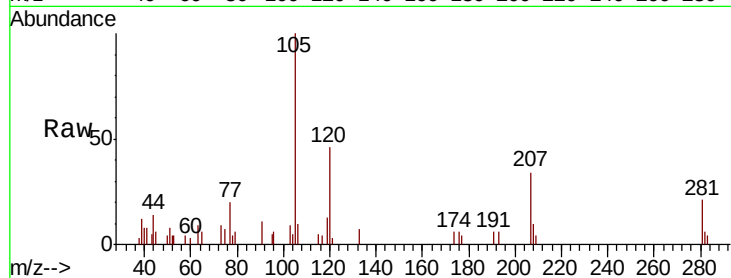
LOQ-WATER-02-QT4-2019

Tot Ion:105 Resp: 8473

Ion Ratio Lower Upper

105 100

120 48.3 23.4 70.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.74

6000

5000

4000

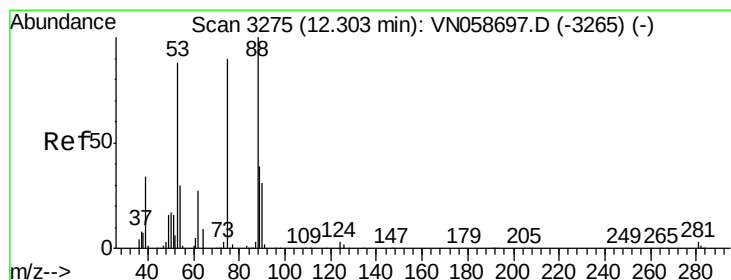
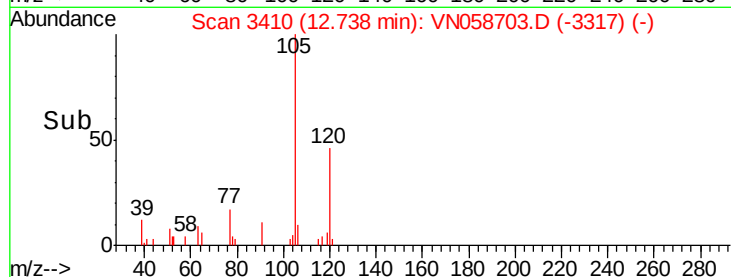
3000

2000

1000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 69.916 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

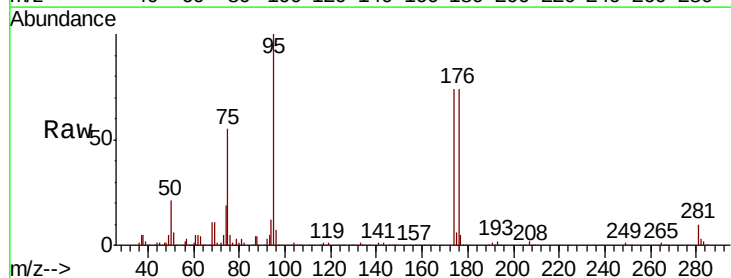
Tgt Ion: 75 Resp: 155095

Ion Ratio Lower Upper

75 100

53 0.0 78.4 117.6#

89 0.0 34.9 52.3#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

12.40

120000

100000

80000

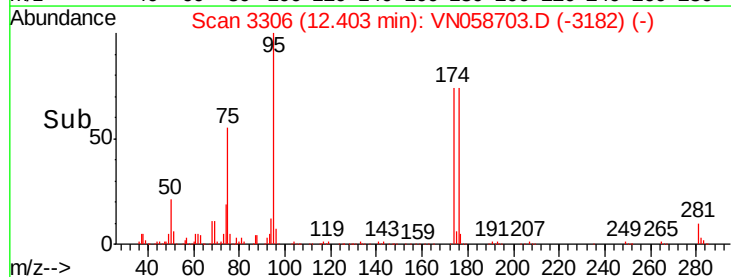
60000

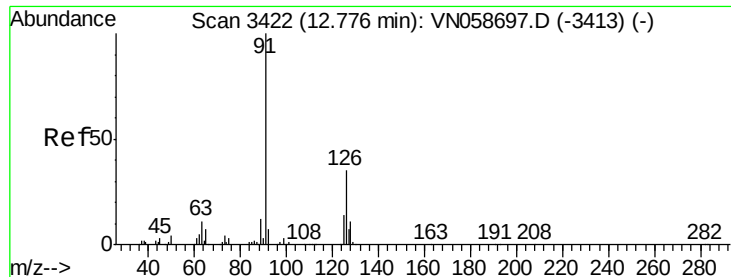
40000

20000

0

Time-->





#82

4-Chlorotoluene

Concen: 0.497 ug/l

RT: 12.78 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

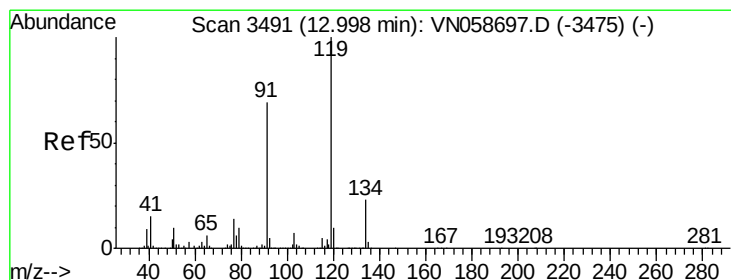
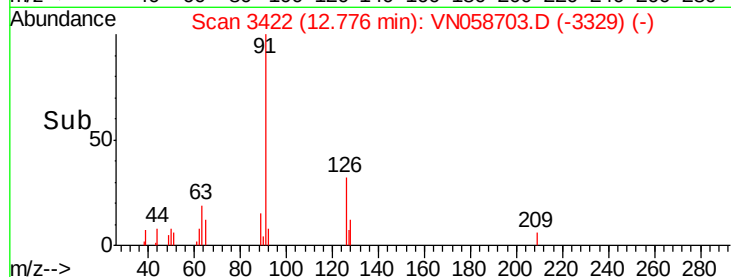
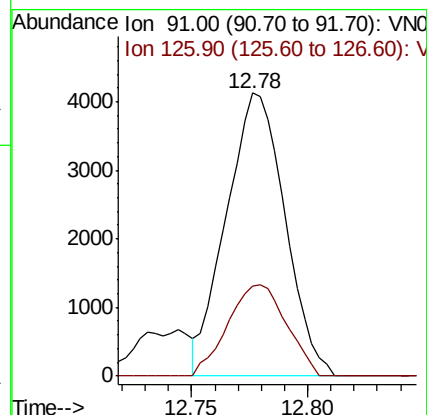
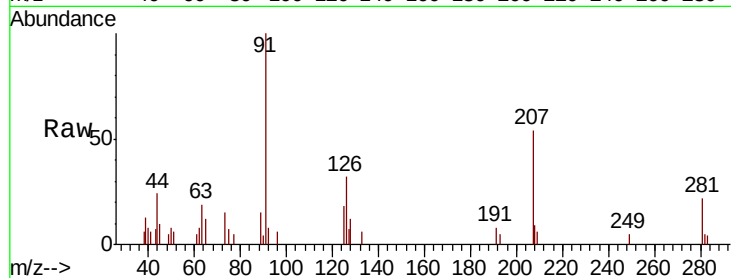
LOQ-WATER-02-QT4-2019

Tot Ion: 91 Resp: 7243

Ion Ratio Lower Upper

91 100

126 32.3 15.9 47.6



#83

tert-Butylbenzene

Concen: 0.535 ug/l

RT: 13.00 min Scan# 3491

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

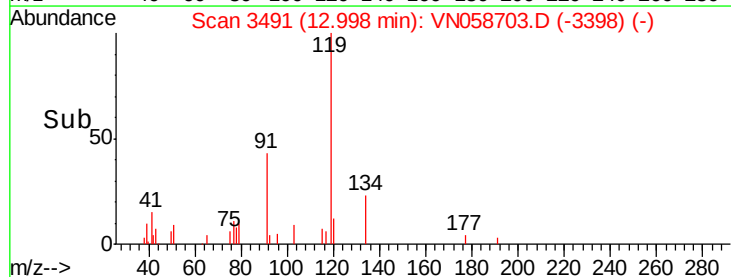
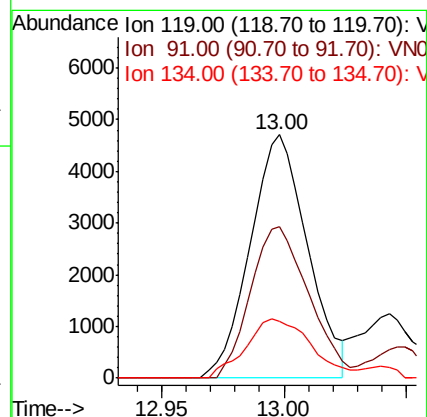
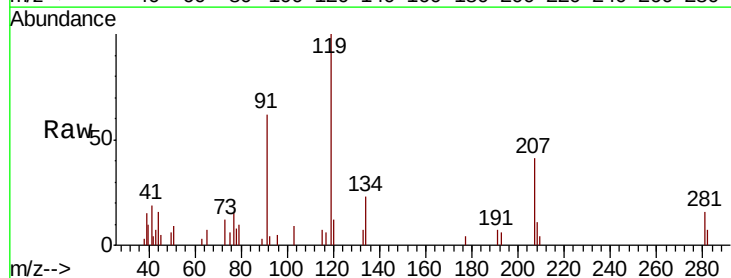
Tgt Ion: 119 Resp: 7677

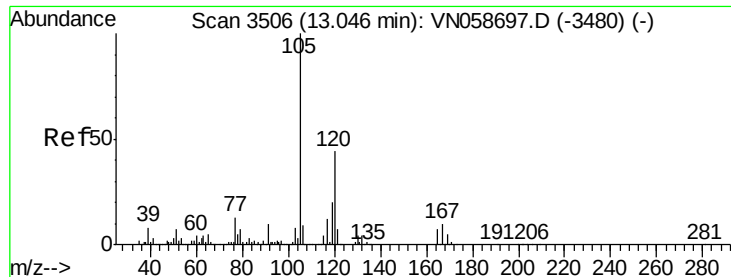
Ion Ratio Lower Upper

119 100

91 63.0 33.8 101.3

134 27.6 12.6 37.6





#84

1,2,4-Trimethylbenzene

Concen: 0.512 ug/l

RT: 13.05 min Scan# 3506

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

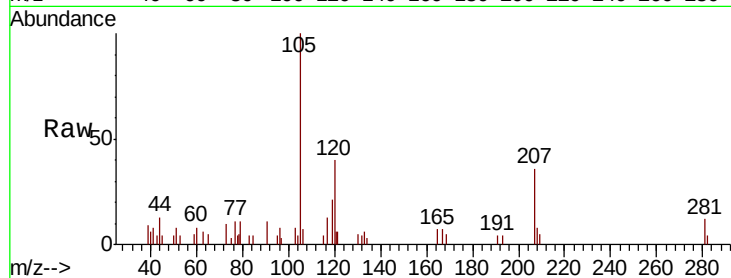
LOQ-WATER-02-QT4-2019

Tot Ion:105 Resp: 8516

Ion Ratio Lower Upper

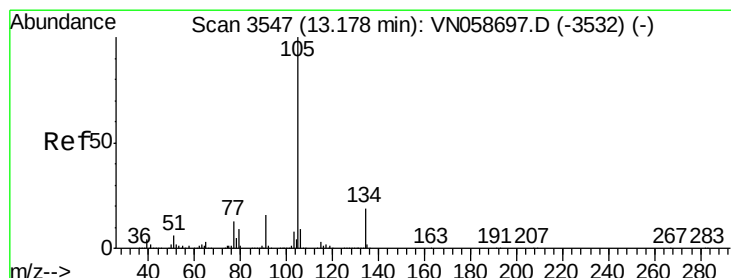
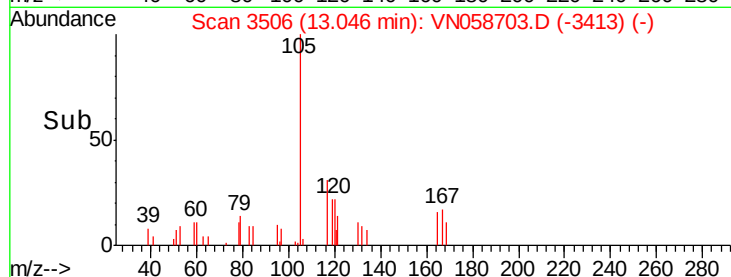
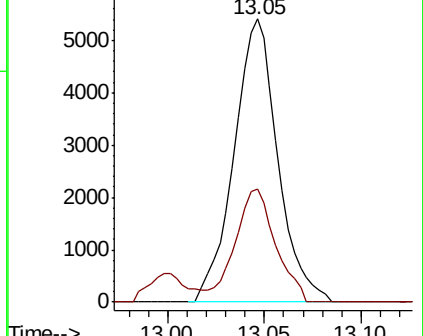
105 100

120 37.3 21.9 65.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 0.485 ug/l

RT: 13.18 min Scan# 3547

Delta R.T. 0.00 min

Lab File: VN058703.D

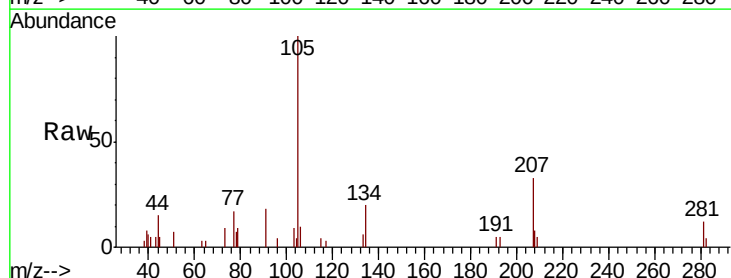
Acq: 11 Oct 2019 15:14

Tgt Ion:105 Resp: 9173

Ion Ratio Lower Upper

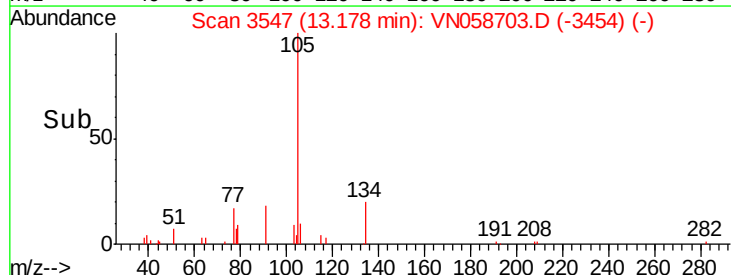
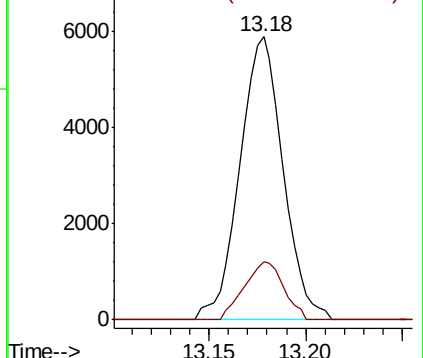
105 100

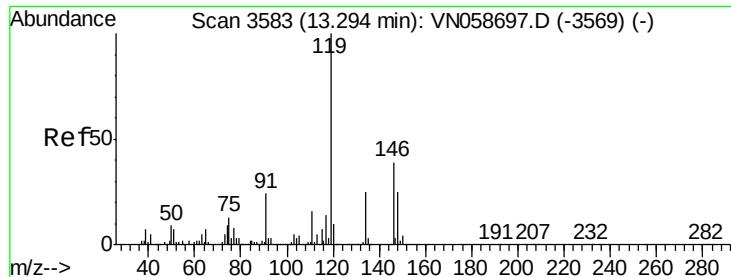
134 18.7 9.7 29.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

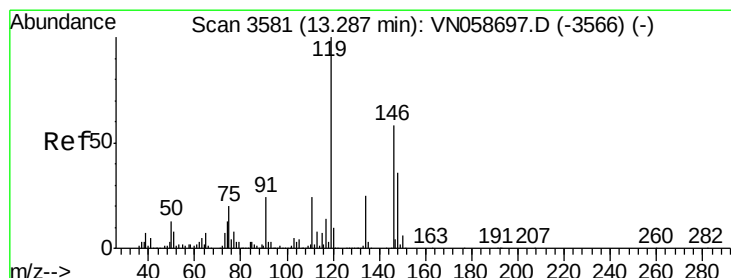
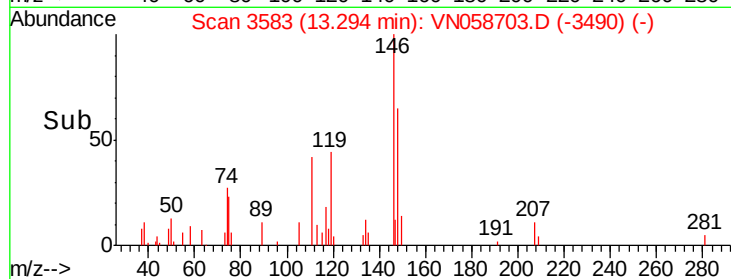
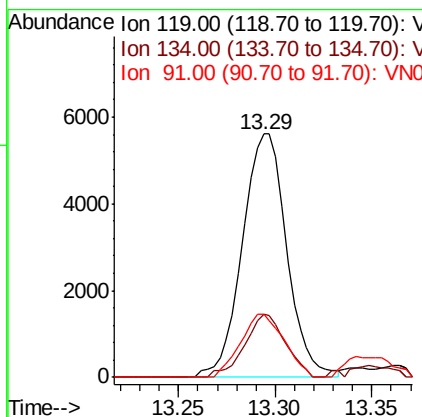
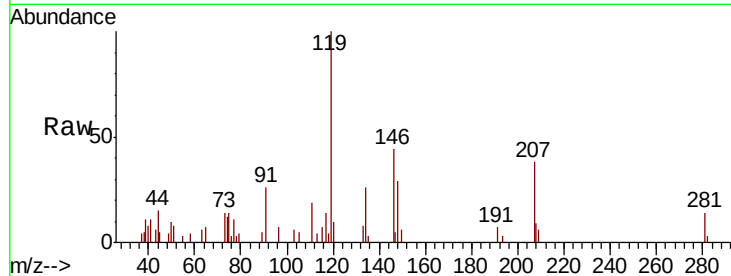




#86
 p-Isopropyltoluene
 Concen: 0.524 ug/l
 RT: 13.29 min Scan# 3583
 Delta R.T. 0.00 min
 Lab File: VN058703.D
 Acq: 11 Oct 2019 15:14

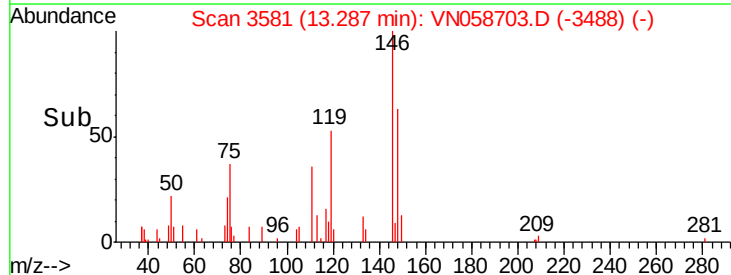
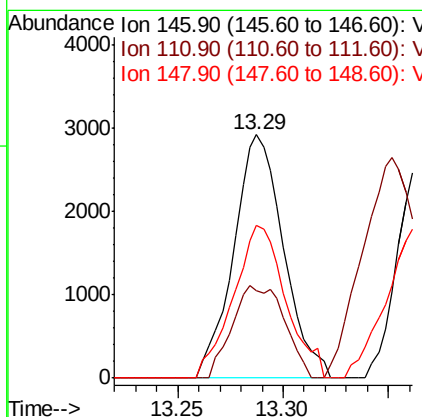
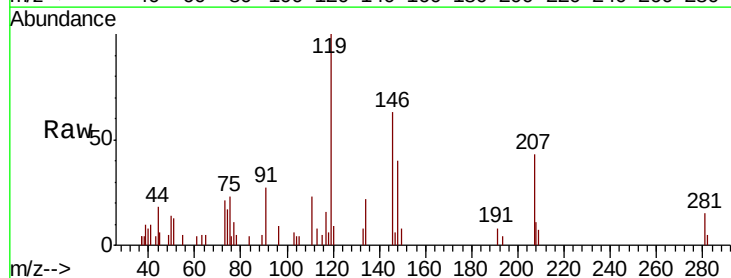
Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

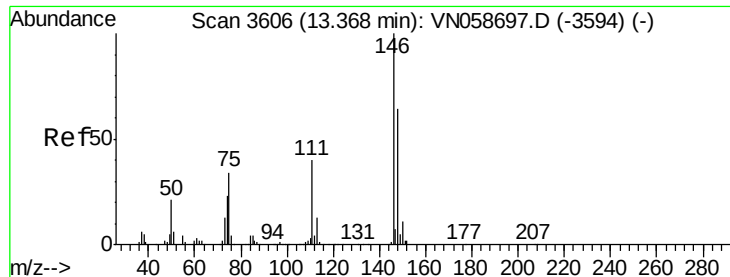
Tot Ion	Ratio	Lower	Upper
119	100		
134	23.8	12.7	38.1
91	25.4	11.9	35.5



#87
 1,3-Dichlorobenzene
 Concen: 0.544 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN058703.D
 Acq: 11 Oct 2019 15:14

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.7	20.5	61.6
148	65.9	31.3	93.9





#88

1,4-Dichlorobenzene

Concen: 0.535 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.08 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

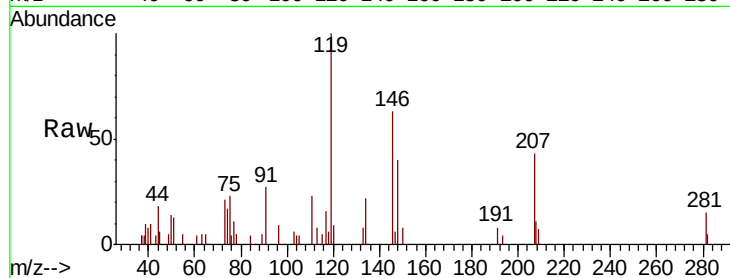
Tot Ion:146 Resp: 4786

Ion Ratio Lower Upper

146 100

111 39.7 20.1 60.2

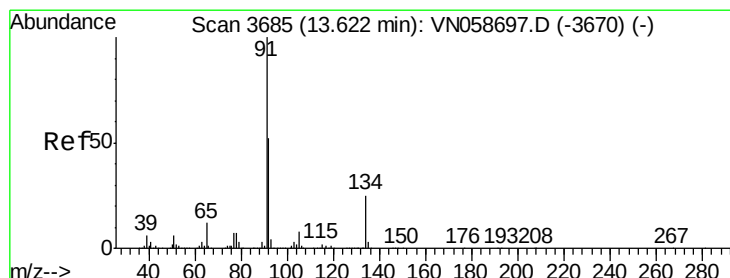
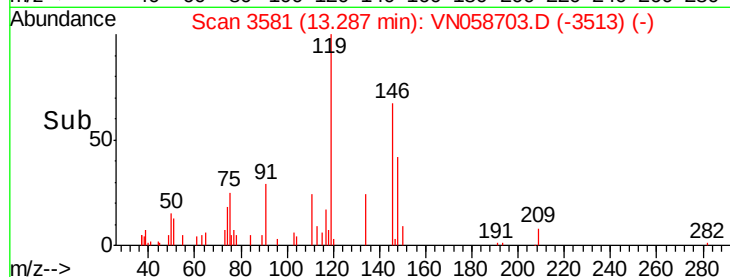
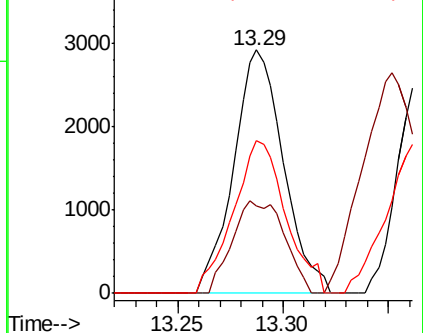
148 65.9 31.9 95.7



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#89

n-Butylbenzene

Concen: 0.466 ug/l

RT: 13.62 min Scan# 3685

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

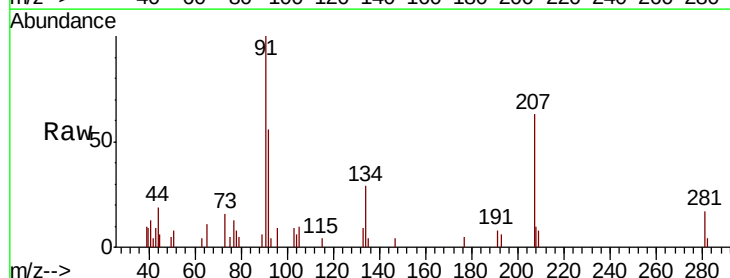
Tgt Ion: 91 Resp: 7404

Ion Ratio Lower Upper

91 100

92 55.5 26.0 78.0

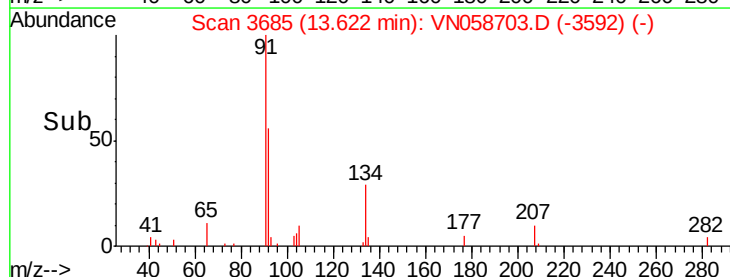
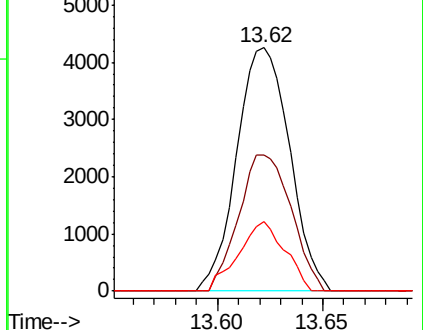
134 25.0 12.2 36.6

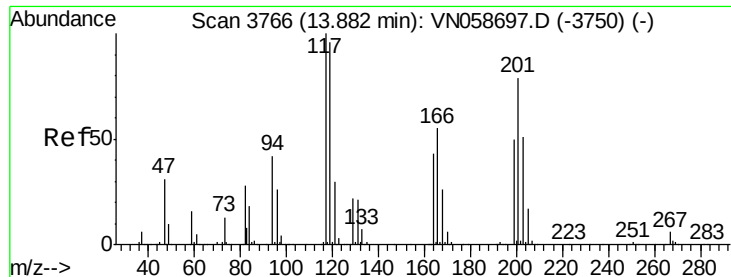


Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 0.564 ug/l

RT: 13.88 min Scan# 3766

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

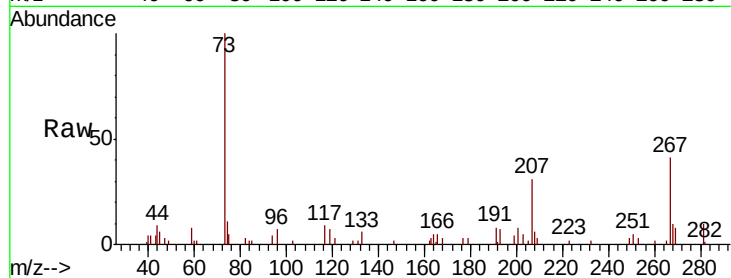
LOQ-WATER-02-QT4-2019

Tot Ion:117 Resp: 1734

Ion Ratio Lower Upper

117 100

201 69.2 39.6 118.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

13.88

1000

800

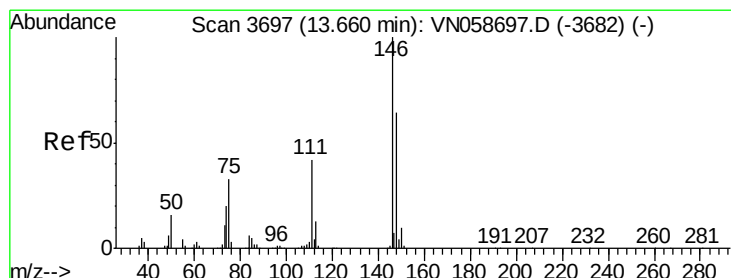
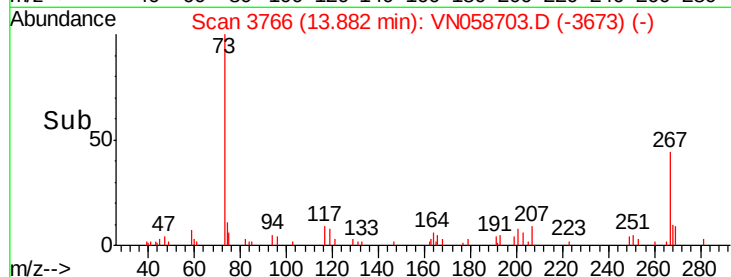
600

400

200

0

Time--> 13.85 13.90



#91

1,2-Dichlorobenzene

Concen: 0.522 ug/l

RT: 13.66 min Scan# 3698

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

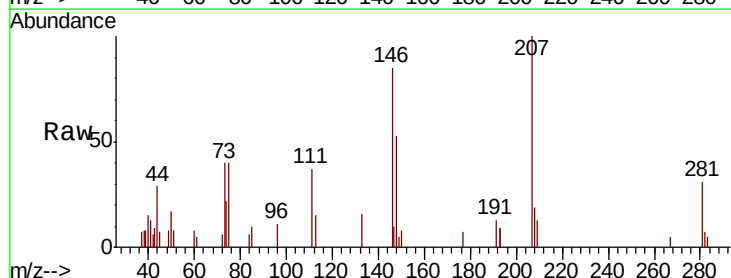
Tgt Ion:146 Resp: 4481

Ion Ratio Lower Upper

146 100

111 44.9 21.1 63.4

148 67.6 31.8 95.3



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

13.66

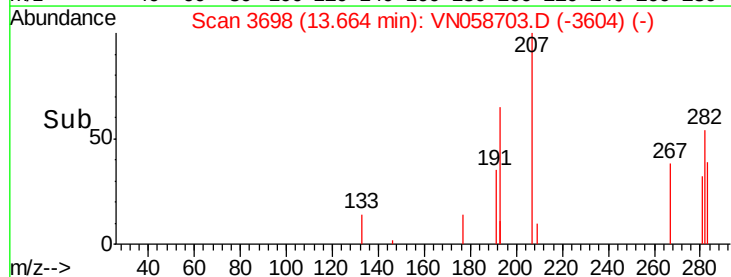
3000

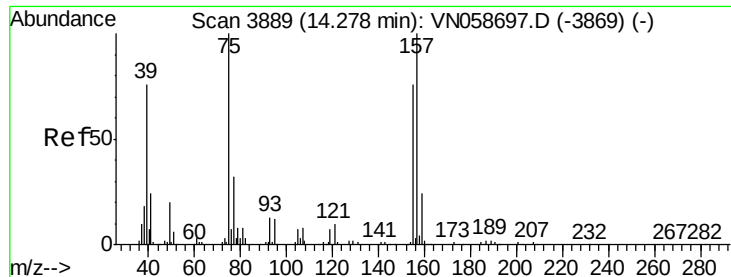
2000

1000

0

Time--> 13.60 13.65 13.70

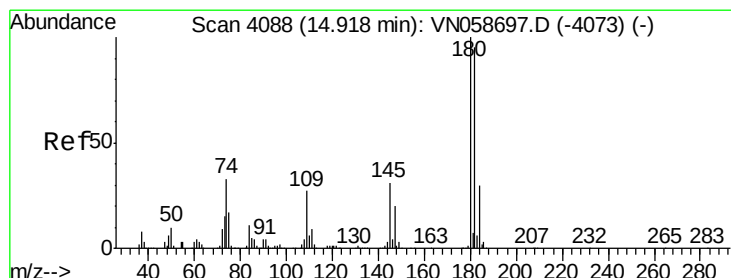
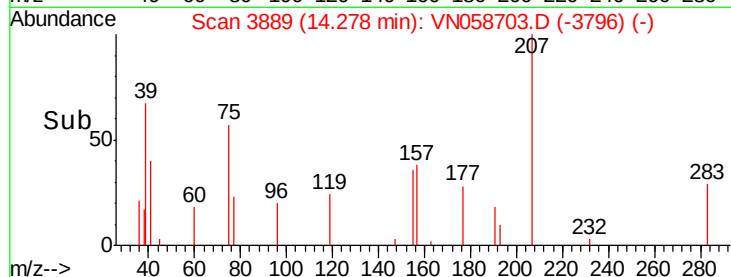
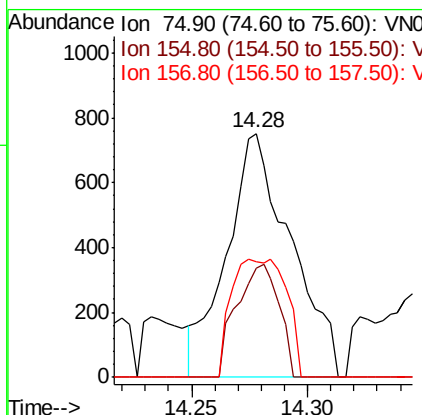
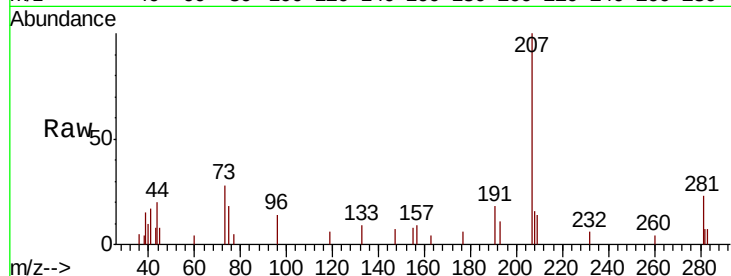




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.958 ug/l
 RT: 14.28 min Scan# 3889
 Delta R.T. 0.00 min
 Lab File: VN058703.D
 Acq: 11 Oct 2019 15:14

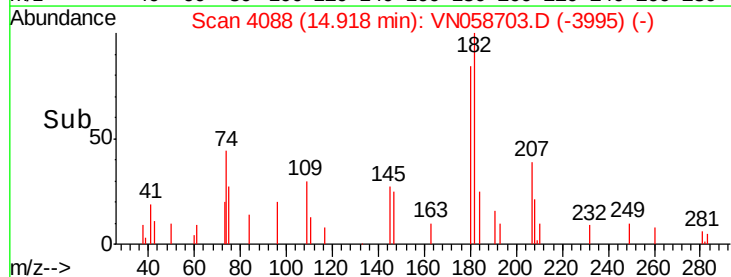
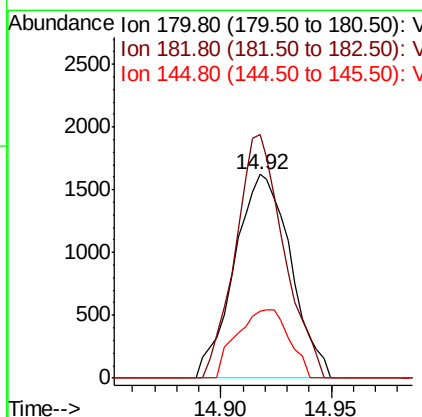
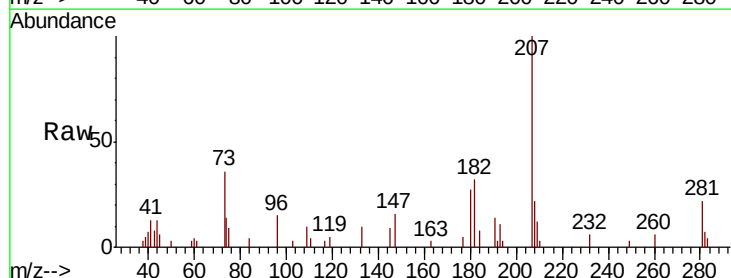
Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT4-2019

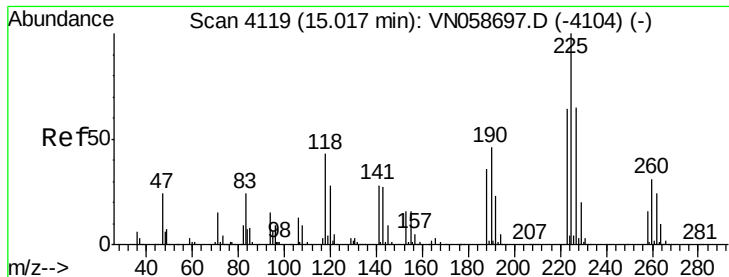
Tot Ion: 75 Resp: 1446
 Ion Ratio Lower Upper
 75 100
 155 30.6 37.9 113.6#
 157 41.1 49.4 148.2#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.551 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VN058703.D
 Acq: 11 Oct 2019 15:14

Tgt Ion: 180 Resp: 2881
 Ion Ratio Lower Upper
 180 100
 182 102.6 47.4 142.2
 145 31.0 15.4 46.2





#94

Hexachlorobutadiene

Concen: 0.484 ug/l

RT: 15.02 min Scan# 4119

Delta R.T. 0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT4-2019

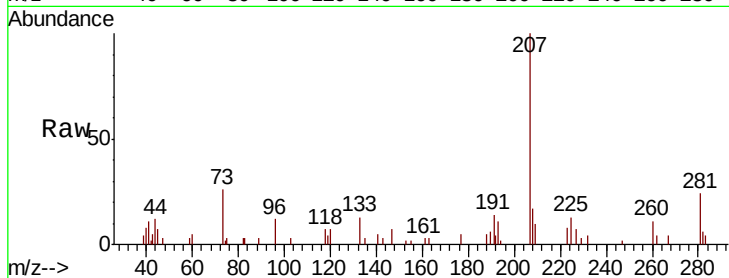
Tot Ion:225 Resp: 1333

Ion Ratio Lower Upper

225 100

223 74.4 32.3 96.8

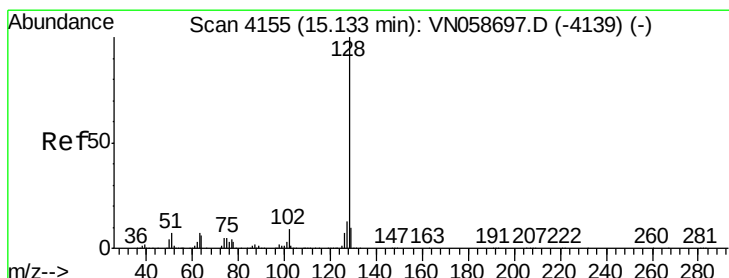
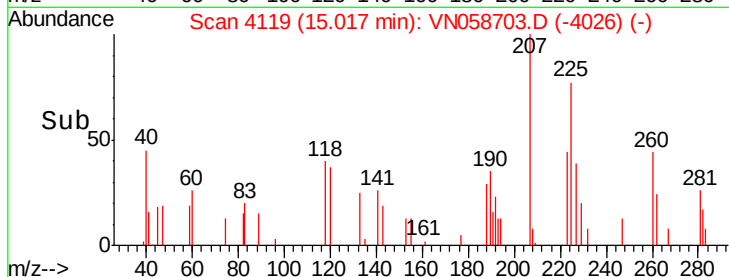
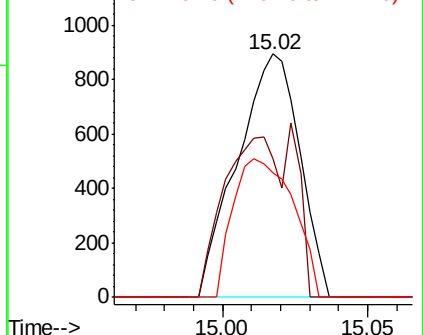
227 55.0 32.4 97.0



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.555 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN058703.D

Acq: 11 Oct 2019 15:14

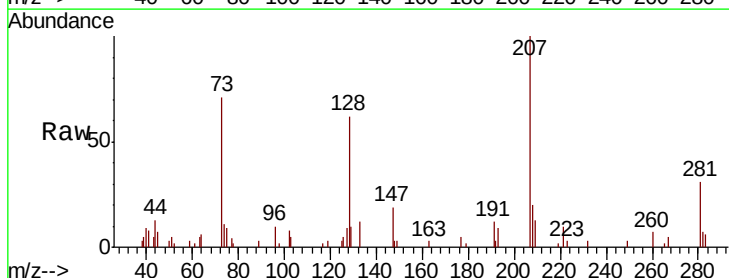
Tgt Ion:128 Resp: 8347

Ion Ratio Lower Upper

128 100

127 12.8 10.2 15.4

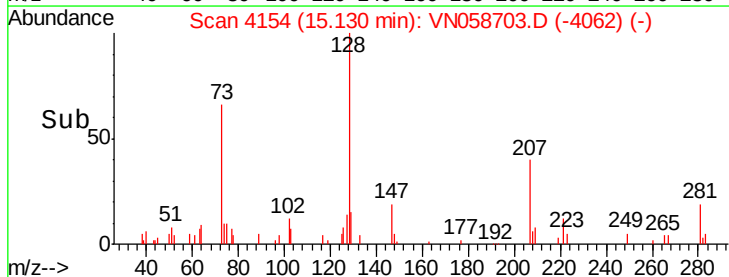
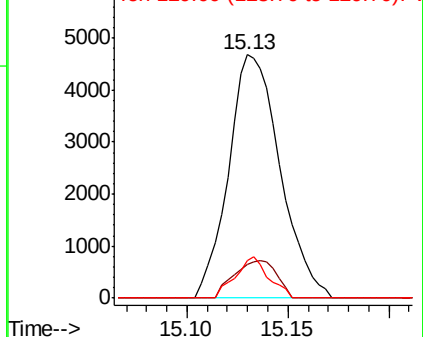
129 10.9 8.5 12.7

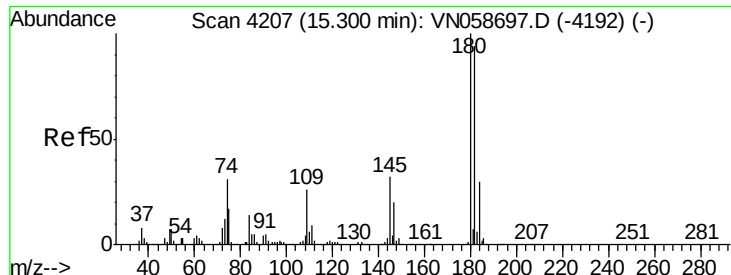


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.549 ug/l
 RT: 15.31 min Scan# 4209
 Delta R.T. 0.01 min
 Lab File: VN058703.D
 Acq: 11 Oct 2019 15:14

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

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.6	47.3	142.0
145	32.9	16.2	48.6

