

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031219\
 Data File : VN054167.D
 Acq On : 12 Mar 2019 16:56
 Operator : JC/SP
 Sample : K1560-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT1-2019

Quant Time: Mar 13 07:24:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1509931	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2228069	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1928417	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	769705	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	786044	49.02	ug/l	0.00
Spiked Amount			Recovery	=	98.04%	
35) Dibromofluoromethane	7.59	113	703405	48.95	ug/l	0.00
Spiked Amount			Recovery	=	97.90%	
50) Toluene-d8	10.09	98	2572975	48.48	ug/l	0.00
Spiked Amount			Recovery	=	96.96%	
62) 4-Bromofluorobenzene	12.40	95	842748	45.38	ug/l	0.00
Spiked Amount			Recovery	=	90.76%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	28598	1.998	ug/l	99
3) Chloromethane	2.06	50	33088	2.380	ug/l	97
4) Vinyl Chloride	2.19	62	36167	2.276	ug/l	98
5) Bromomethane	2.56	94	46221	4.200	ug/l	99
6) Chloroethane	2.70	64	23207	2.414	ug/l	94
7) Trichlorofluoromethane	3.02	101	48813	2.311	ug/l	99
8) Diethyl Ether	3.41	74	20455	2.125	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.75	101	32295	2.040	ug/l	96
10) Methyl Iodide	3.94	142	118514	6.611	ug/l	98
11) Tert butyl alcohol	4.81	59	46576	42.369	ug/l #	70
12) 1,1-Dichloroethene	3.73	96	31569	2.012	ug/l	96
13) Acrolein	3.61	56	52718	50.608	ug/l	96
14) Allyl chloride	4.32	41	35163	1.747	ug/l	92
15) Acrylonitrile	5.00	53	43265	9.581	ug/l	99
16) Acetone	3.82	43	81482	17.747	ug/l	98
17) Carbon Disulfide	4.04	76	74602	1.897	ug/l	99
18) Methyl Acetate	4.33	43	18962	2.041	ug/l	96
19) Methyl tert-butyl Ether	5.05	73	77679	1.998	ug/l	97
20) Methylene Chloride	4.54	84	33256	2.206	ug/l	96
21) trans-1,2-Dichloroethene	5.03	96	30946	2.059	ug/l	94
22) Diisopropyl ether	5.96	45	77591	1.932	ug/l	97
23) Vinyl Acetate	5.90	43	266301	8.992	ug/l	99
24) 1,1-Dichloroethane	5.85	63	52577	2.039	ug/l	98
25) 2-Butanone	6.86	43	49831	9.247	ug/l	97
26) 2,2-Dichloropropane	6.82	77	43329	1.910	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	34966	2.085	ug/l	97
28) Bromochloromethane	7.19	49	22009	2.087	ug/l	96
29) Tetrahydrofuran	7.22	42	32044	9.248	ug/l	100
30) Chloroform	7.37	83	53347	1.982	ug/l	94
31) Cyclohexane	7.65	56	67043	1.592	ug/l #	75
32) 1,1,1-Trichloroethane	7.57	97	46520	1.914	ug/l	98
36) 1,1-Dichloropropene	7.79	75	40483	1.973	ug/l	98
37) Ethyl Acetate	6.95	43	20687	1.755	ug/l	96
38) Carbon Tetrachloride	7.77	117	39784	1.849	ug/l	96

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

39) Methylcyclohexane	9.08	83	51015	2.021	ug/l	98
40) Benzene	8.04	78	117300	1.998	ug/l	95
41) Methacrylonitrile	7.18	41	11794	1.752	ug/l #	85
42) 1,2-Dichloroethane	8.13	62	40661	2.051	ug/l	98
43) Isopropyl Acetate	8.17	43	36896	1.783	ug/l	98
44) Trichloroethene	8.84	130	36492	2.001	ug/l	94
45) 1,2-Dichloropropane	9.12	63	29203	2.003	ug/l	99
46) Dibromomethane	9.21	93	19350	1.964	ug/l	97
47) Bromodichloromethane	9.40	83	37846	1.916	ug/l	98
48) Methyl methacrylate	9.20	41	19226	1.831	ug/l	93
49) 1,4-Dioxane	9.20	88	5060	34.063	ug/l	89
51) 4-Methyl-2-Pentanone	9.99	43	100268	9.156	ug/l	97
52) Toluene	10.16	92	76860	2.064	ug/l	94
53) t-1,3-Dichloropropene	10.38	75	33846	3.425	ug/l	97
54) cis-1,3-Dichloropropene	9.84	75	41762	1.815	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	27740	2.041	ug/l	96
56) Ethyl methacrylate	10.43	69	28710	1.771	ug/l	96
57) 1,3-Dichloropropane	10.71	76	44721	2.012	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	53595	23.936	ug/l	99
59) 2-Hexanone	10.75	43	64677	8.876	ug/l	98
60) Dibromochloromethane	10.90	129	26012	1.700	ug/l	96
61) 1,2-Dibromoethane	11.00	107	27309	1.977	ug/l	95
64) Tetrachloroethene	10.63	164	38981	2.091	ug/l	98
65) Chlorobenzene	11.43	112	86703	2.048	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	28494	1.852	ug/l	89
67) Ethyl Benzene	11.51	91	141494	2.016	ug/l	98
68) m/p-Xylenes	11.62	106	109624	3.996	ug/l	100
69) o-Xylene	11.95	106	55277	2.067	ug/l	100
70) Styrene	11.96	104	79216	1.889	ug/l	96
71) Bromoform	12.13	173	16976	3.730	ug/l #	99
73) Isopropylbenzene	12.25	105	149248	2.424	ug/l	99
74) N-amyl acetate	12.07	43	25599	1.873	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.50	83	29374	2.239	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	35487	3.135	ug/l #	100
77) Bromobenzene	12.53	156	36566	2.244	ug/l	99
78) n-propylbenzene	12.59	91	149044	2.231	ug/l	100
79) 2-Chlorotoluene	12.67	91	93745	2.333	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	114380	2.233	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	403012	121.715	ug/l #	11
82) 4-Chlorotoluene	12.77	91	84864	2.115	ug/l	98
83) tert-Butylbenzene	12.99	119	110983	2.354	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	108018	2.150	ug/l	99
85) sec-Butylbenzene	13.17	105	140620	2.300	ug/l	99
86) p-Isopropyltoluene	13.29	119	119035	2.219	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	62515	2.277	ug/l	94
88) 1,4-Dichlorobenzene	13.36	146	57206	2.121	ug/l	91
89) n-Butylbenzene	13.62	91	80422	1.973	ug/l	99
90) Hexachloroethane	13.87	117	16626	1.872	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	57808	2.154	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	4070	2.005	ug/l	99

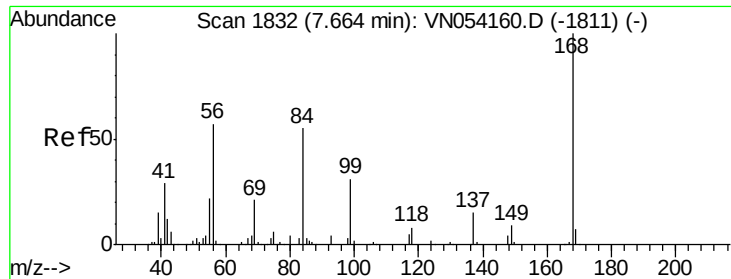
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	25587	4.016	ug/l	97
94) Hexachlorobutadiene	15.01	225	26671	2.609	ug/l	100
95) Naphthalene	15.13	128	47019	4.766	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	22694	1.591	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Instrument :

MSVOA_N

ClientSampleId :

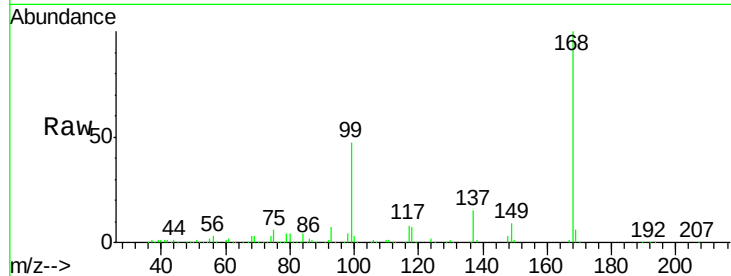
LOQ-WATER-02-QT1-2019

Tot Ion:168 Resp: 1509931

Ion Ratio Lower Upper

168 100

99 46.9 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

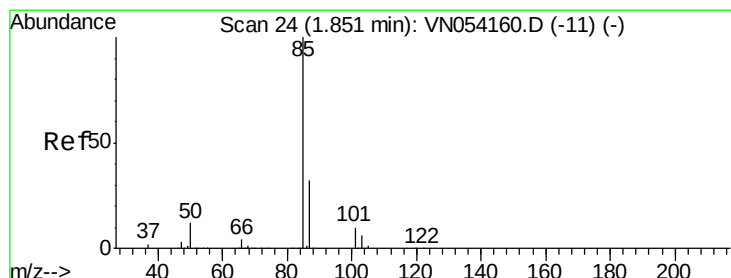
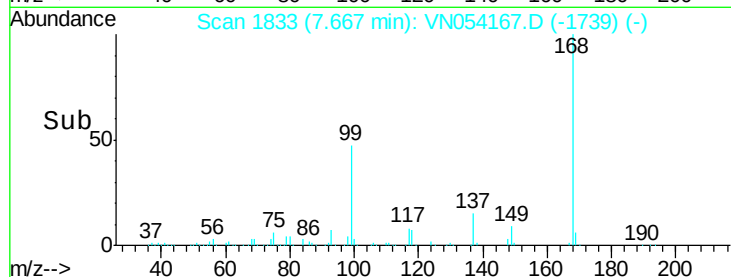
600000

400000

200000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 1.998 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN054167.D

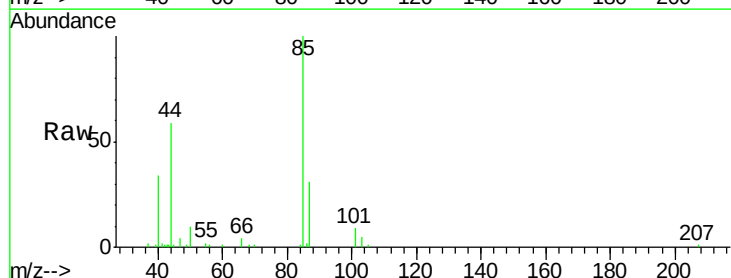
Acq: 12 Mar 2019 16:56

Tgt Ion: 85 Resp: 28598

Ion Ratio Lower Upper

85 100

87 31.3 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

20000

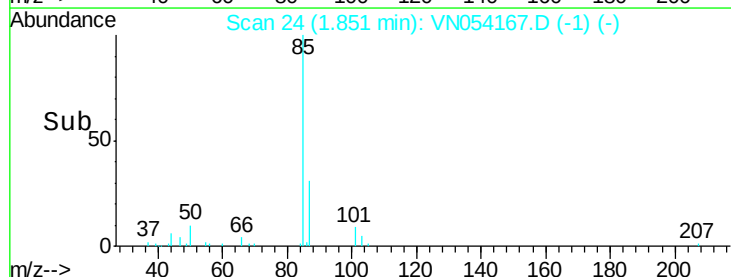
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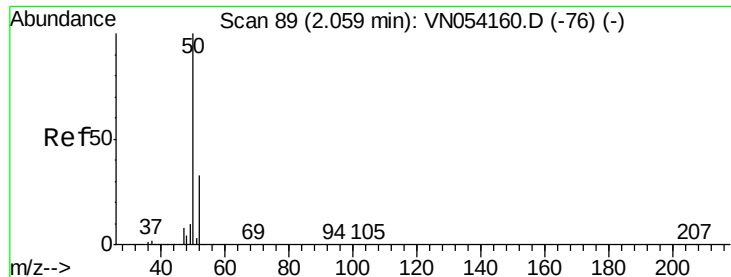
10000

5000

0

Time-->





#3

Chloromethane

Concen: 2.380 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Instrument :

MSVOA_N

ClientSampleId :

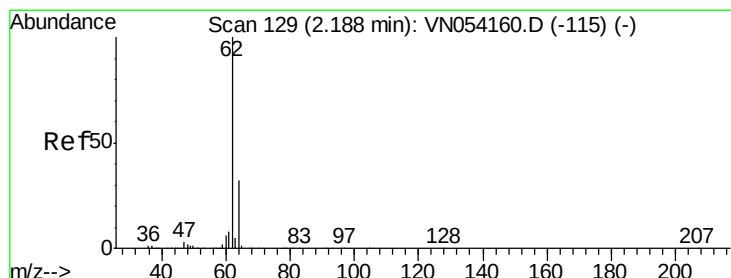
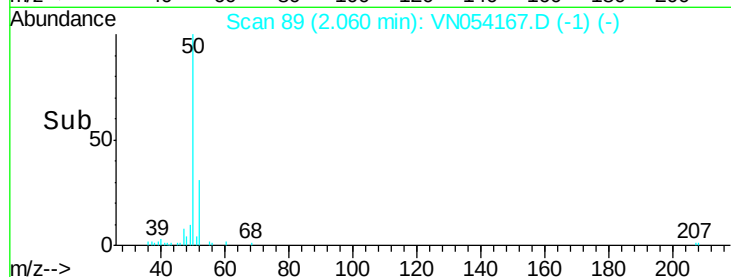
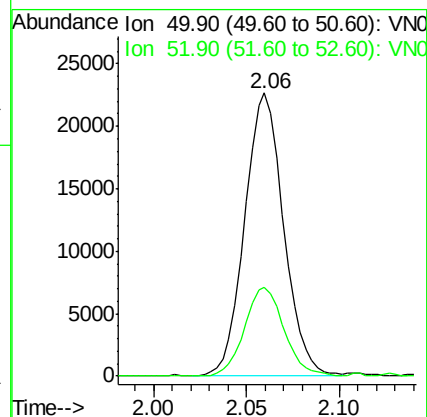
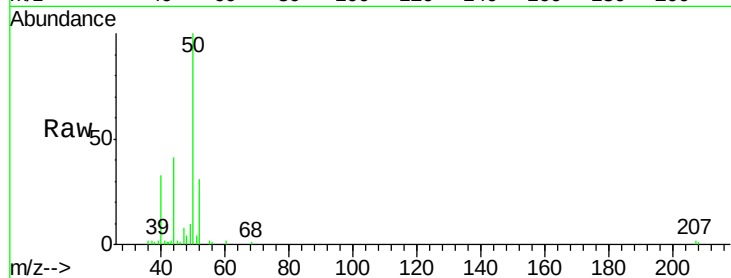
LOQ-WATER-02-QT1-2019

Tot Ion: 50 Resp: 33088

Ion Ratio Lower Upper

50 100

52 31.3 26.4 39.6



#4

Vinyl Chloride

Concen: 2.276 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN054167.D

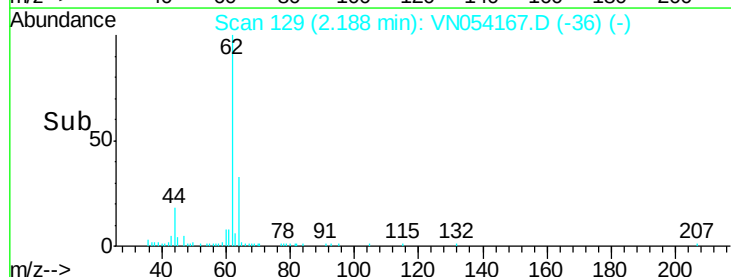
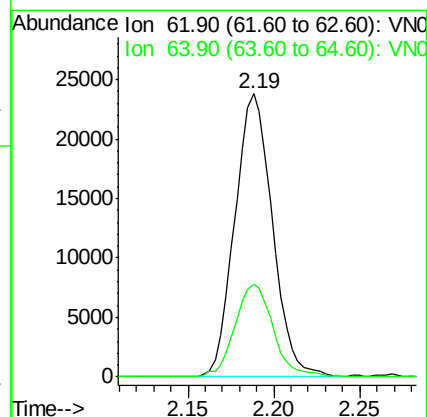
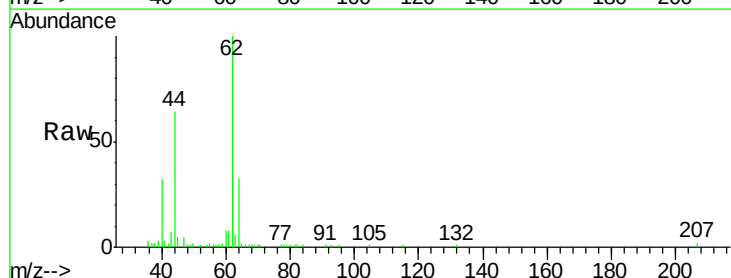
Acq: 12 Mar 2019 16:56

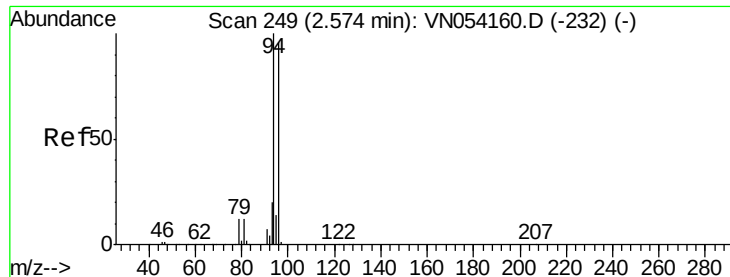
Tgt Ion: 62 Resp: 36167

Ion Ratio Lower Upper

62 100

64 32.8 25.5 38.3





#5

Bromomethane

Concen: 4.200 ug/l

RT: 2.56 min Scan# 245

Delta R.T. -0.01 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Instrument :

MSVOA_N

ClientSampleId :

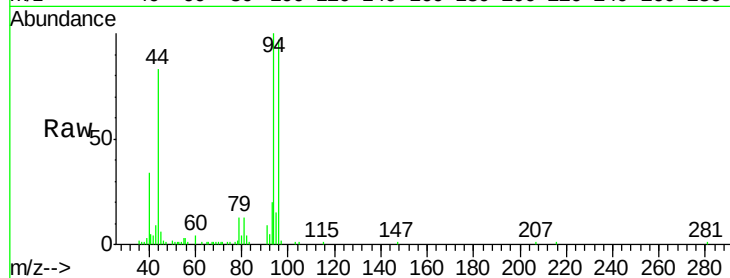
LOQ-WATER-02-QT1-2019

Tot Ion: 94 Resp: 46221

Ion Ratio Lower Upper

94 100

96 97.6 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

25000

20000

15000

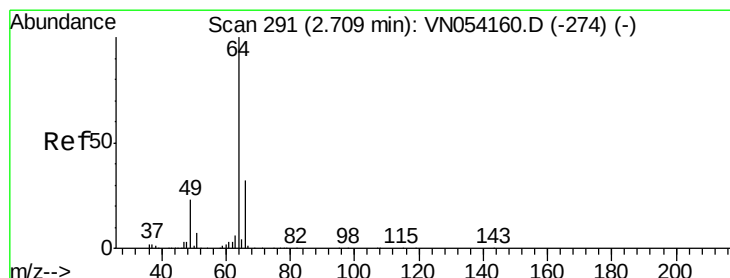
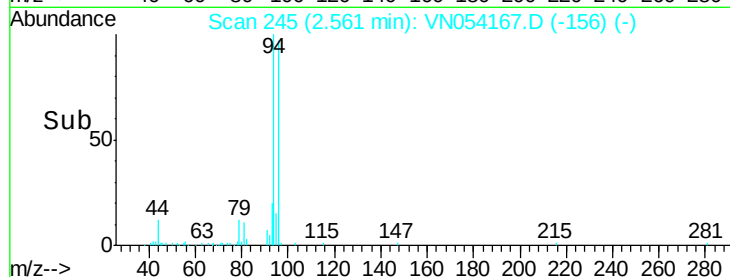
10000

5000

0

2.50 2.55 2.60 2.65

Time-->



#6

Chloroethane

Concen: 2.414 ug/l

RT: 2.70 min Scan# 289

Delta R.T. -0.01 min

Lab File: VN054167.D

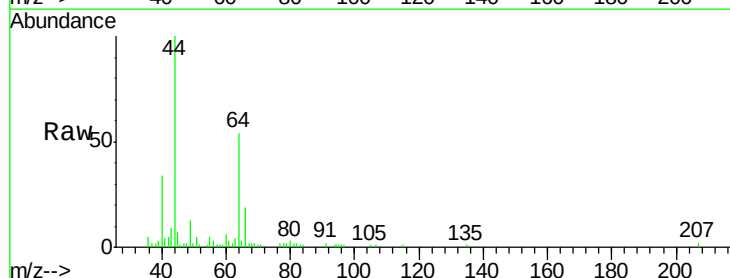
Acq: 12 Mar 2019 16:56

Tgt Ion: 64 Resp: 23207

Ion Ratio Lower Upper

64 100

66 35.2 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

12000

10000

8000

6000

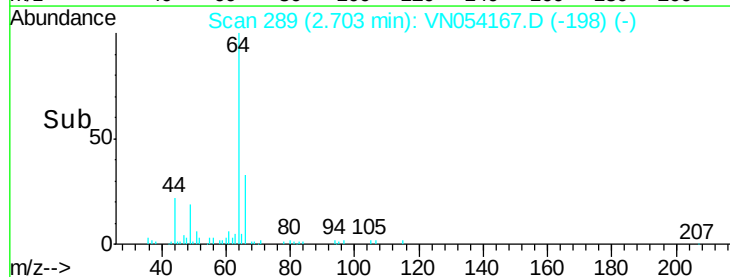
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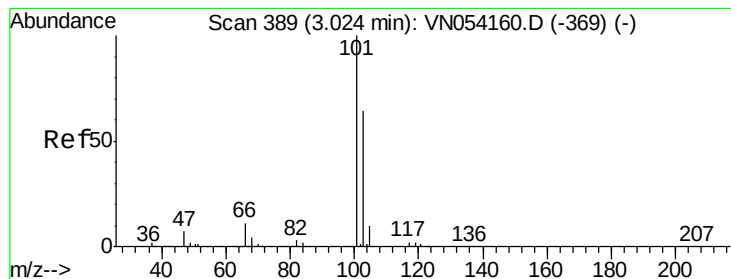
2000

0

2.65 2.70 2.75 2.80

Time-->



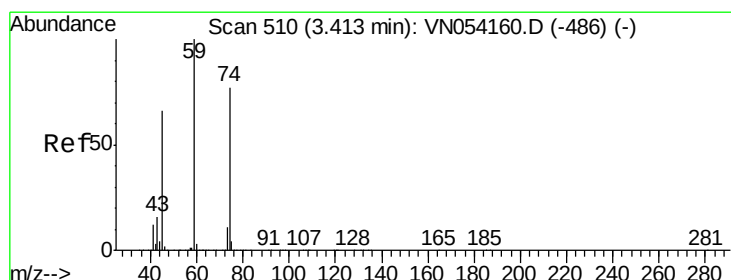
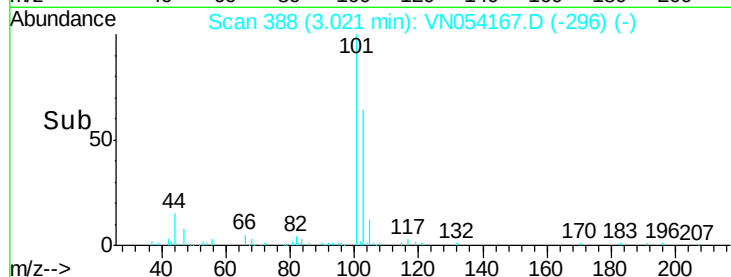
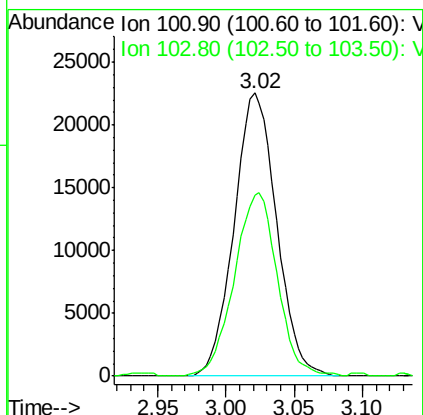
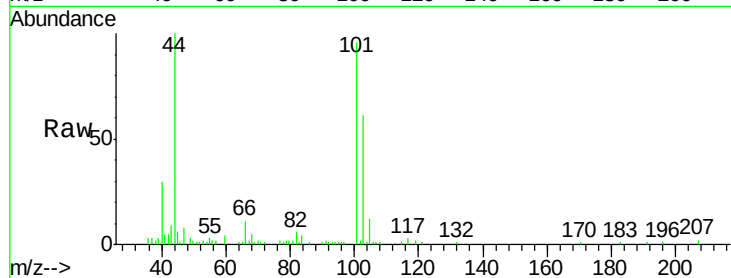


#7

Trichlorofluoromethane
 Concen: 2.311 ug/l
 RT: 3.02 min Scan# 388
 Delta R.T. -0.00 min
 Lab File: VN054167.D
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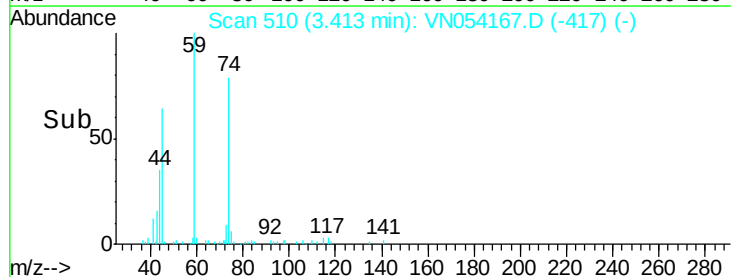
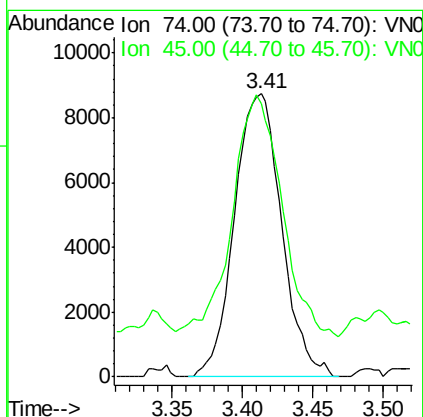
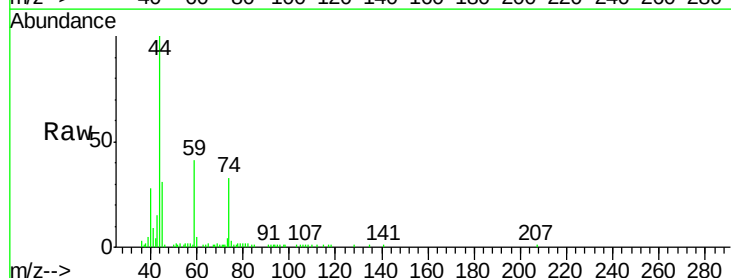
Tot Ion:101 Resp: 48813
 Ion Ratio Lower Upper
 101 100
 103 63.2 51.4 77.2

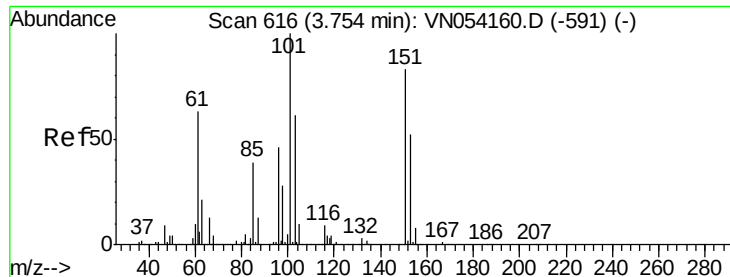


#8

Diethyl Ether
 Concen: 2.125 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN054167.D
 Acq: 12 Mar 2019 16:56

Tgt Ion: 74 Resp: 20455
 Ion Ratio Lower Upper
 74 100
 45 89.9 43.1 129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.040 ug/l

RT: 3.75 min Scan# 615

Delta R.T. -0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT1-2019

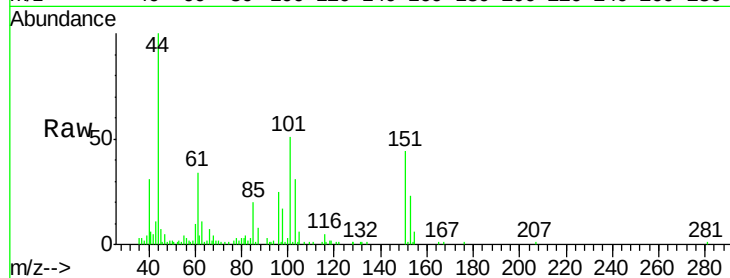
Tot Ion:101 Resp: 32295

Ion Ratio Lower Upper

101 100

85 44.3 32.4 48.6

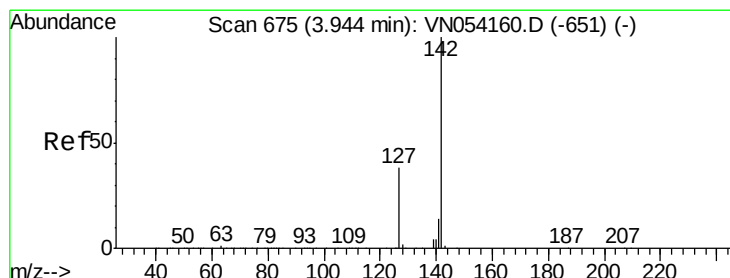
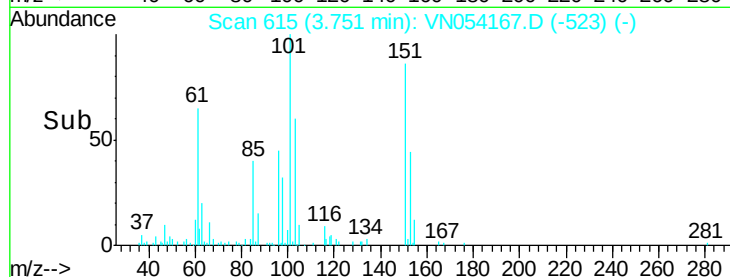
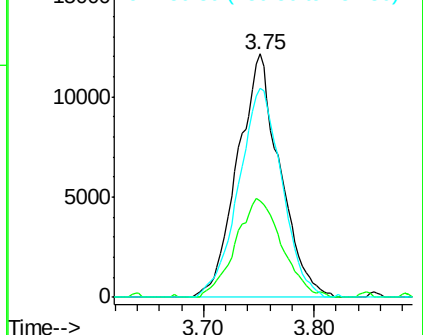
151 87.8 68.2 102.2



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: 6.611 ug/l

RT: 3.94 min Scan# 674

Delta R.T. -0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

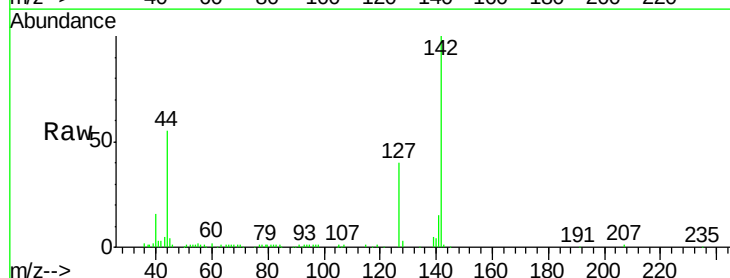
Tgt Ion:142 Resp: 118514

Ion Ratio Lower Upper

142 100

127 38.7 30.3 45.5

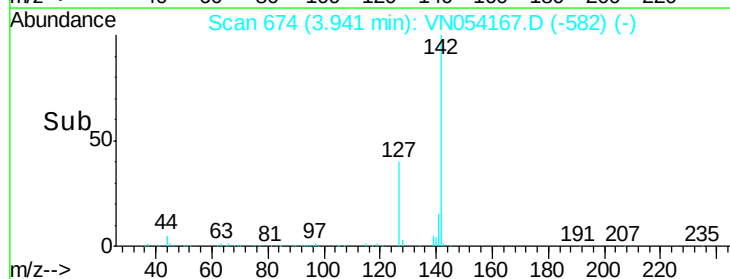
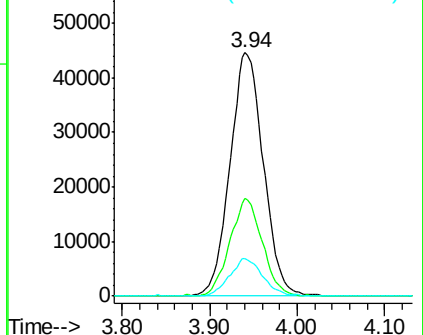
141 15.4 11.2 16.8

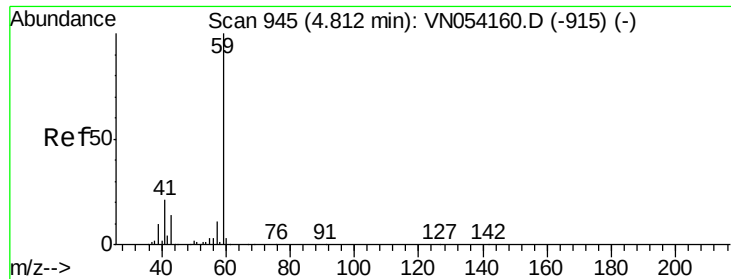


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



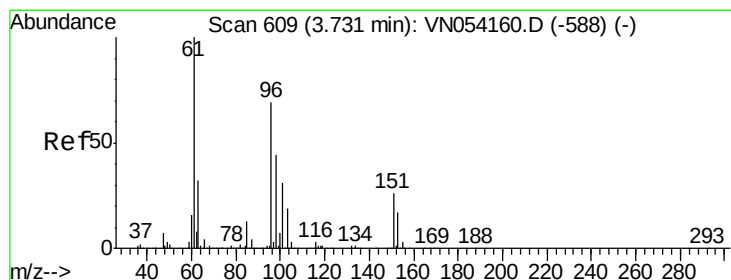
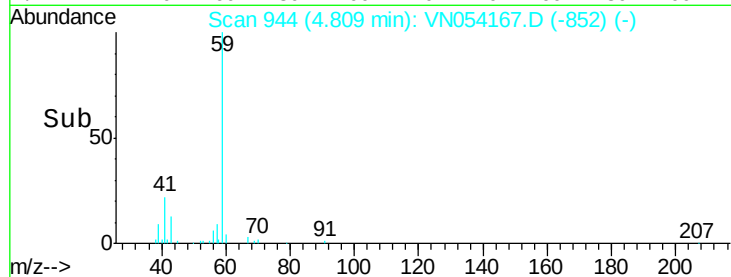
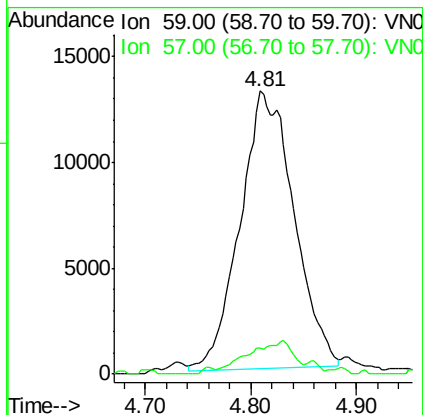
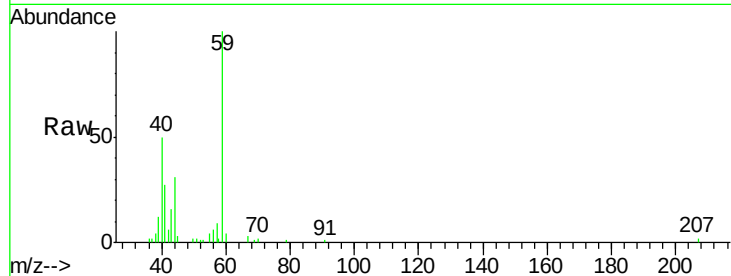


#11

Tert butyl alcohol
 Concen: 42.369 ug/l
 RT: 4.81 min Scan# 944
 Delta R.T. -0.00 min
 Lab File: VN054167.D
 Acq: 12 Mar 2019 16:56

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT1-2019

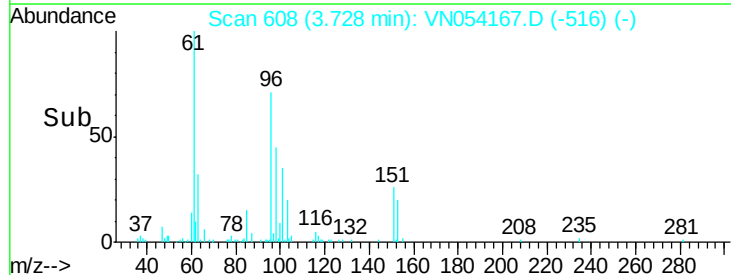
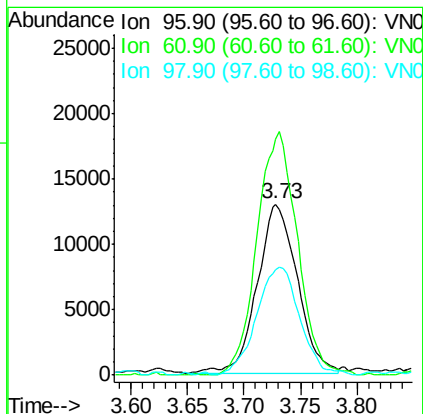
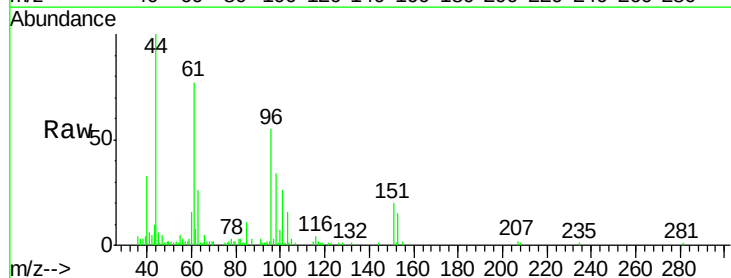
Tot Ion: 59 Resp: 46576
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.0 13.6#

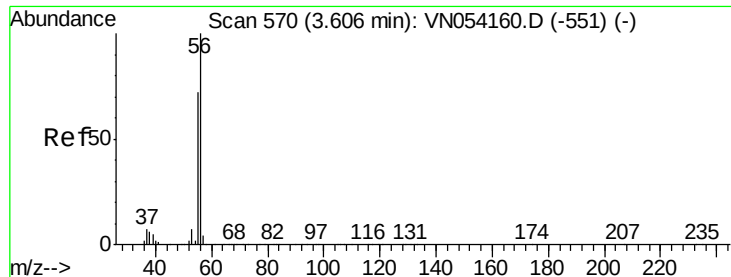


#12

1,1-Dichloroethene
 Concen: 2.012 ug/l
 RT: 3.73 min Scan# 608
 Delta R.T. -0.00 min
 Lab File: VN054167.D
 Acq: 12 Mar 2019 16:56

Tgt Ion: 96 Resp: 31569
 Ion Ratio Lower Upper
 96 100
 61 140.5 116.5 174.7
 98 61.6 51.0 76.4





#13

Acrolein

Concen: 50.608 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Instrument :

MSVOA_N

ClientSampleId :

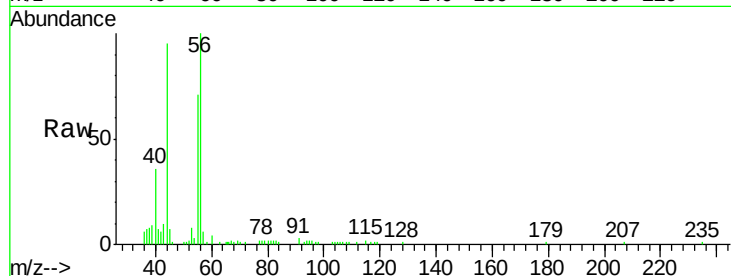
LOQ-WATER-02-QT1-2019

Tot Ion: 56 Resp: 52718

Ion Ratio Lower Upper

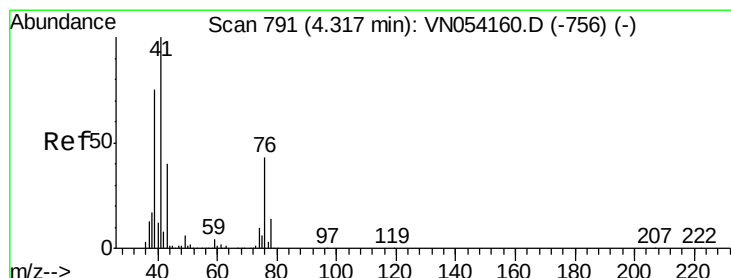
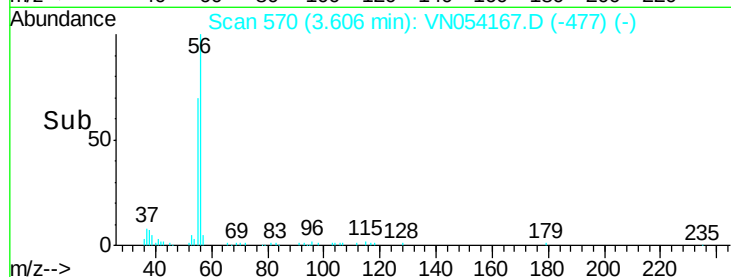
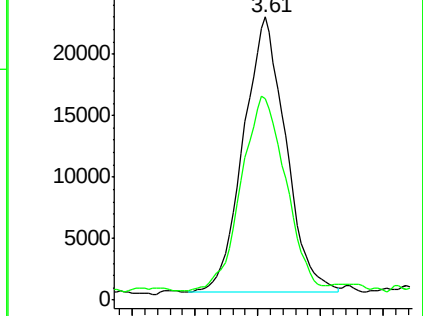
56 100

55 74.0 56.7 85.1



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 1.747 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

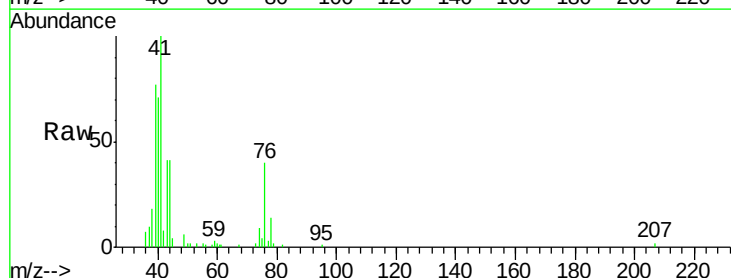
Tgt Ion: 41 Resp: 35163

Ion Ratio Lower Upper

41 100

39 80.2 58.2 87.4

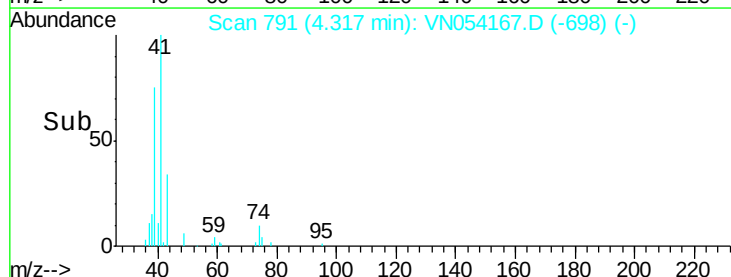
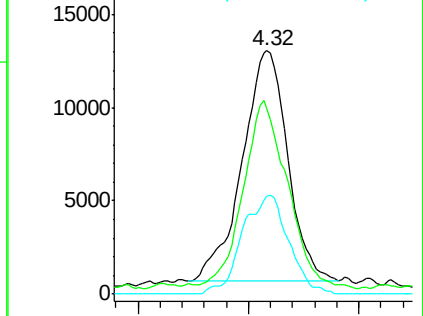
76 44.1 31.7 47.5

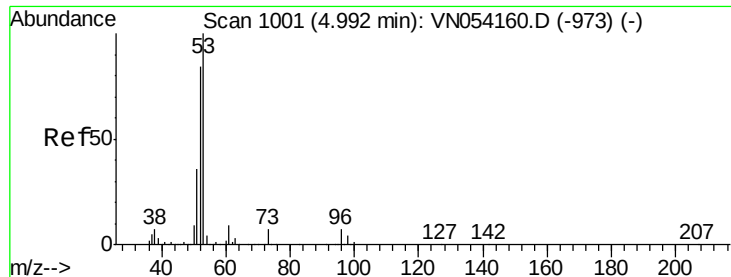


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 9.581 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT1-2019

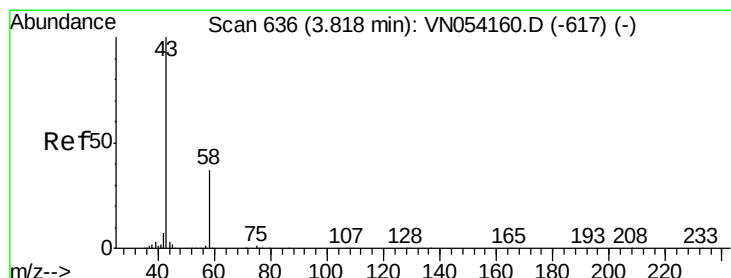
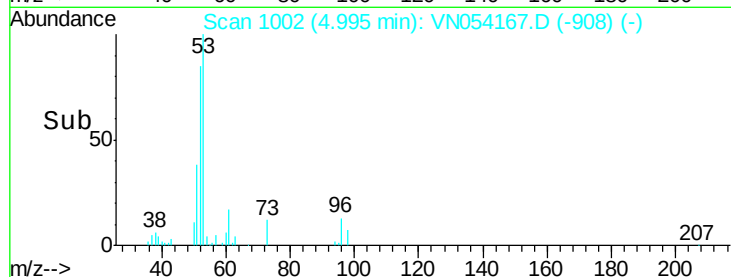
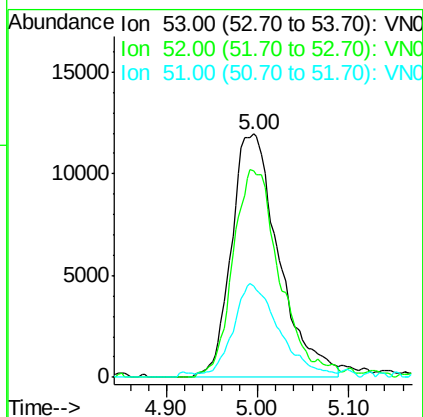
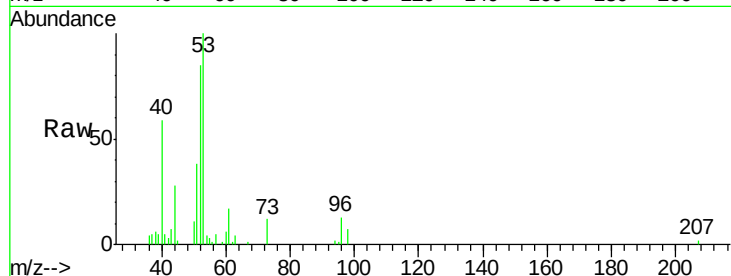
Tot Ion: 53 Resp: 43265

Ion Ratio Lower Upper

53 100

52 82.1 66.4 99.6

51 37.7 29.6 44.4



#16

Acetone

Concen: 17.747 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN054167.D

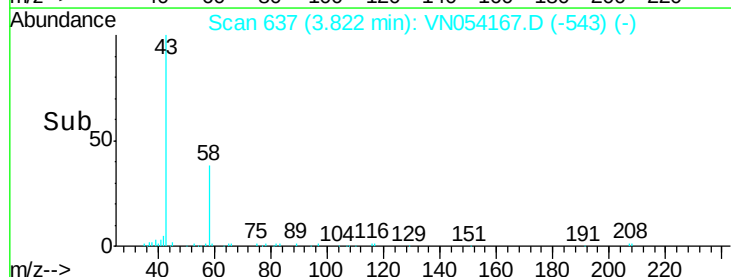
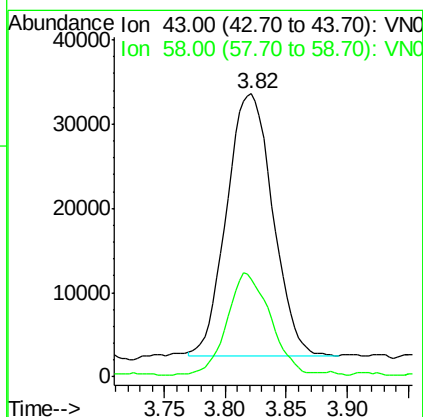
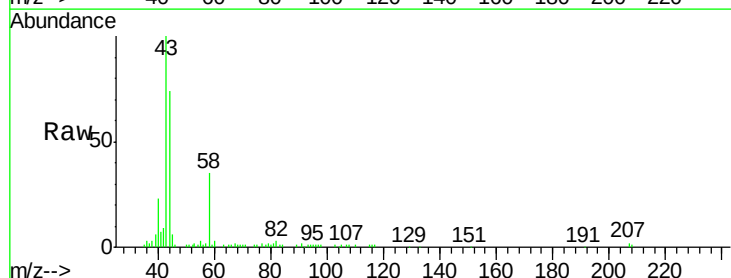
Acq: 12 Mar 2019 16:56

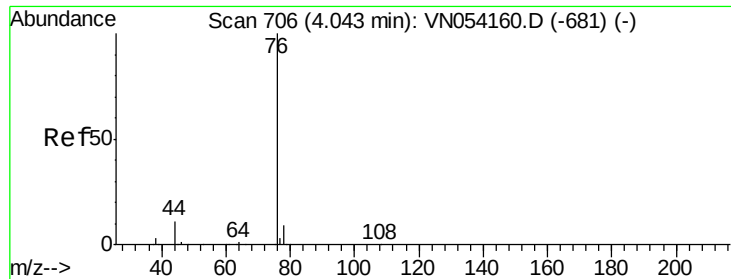
Tgt Ion: 43 Resp: 81482

Ion Ratio Lower Upper

43 100

58 36.1 29.9 44.9

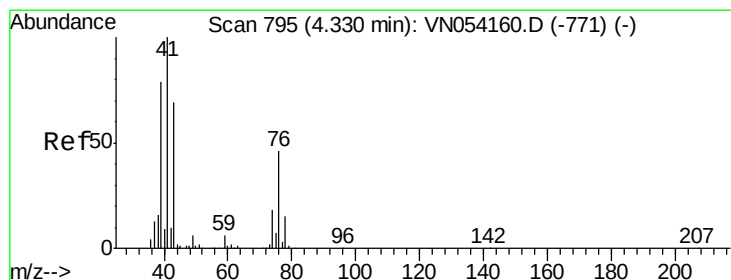
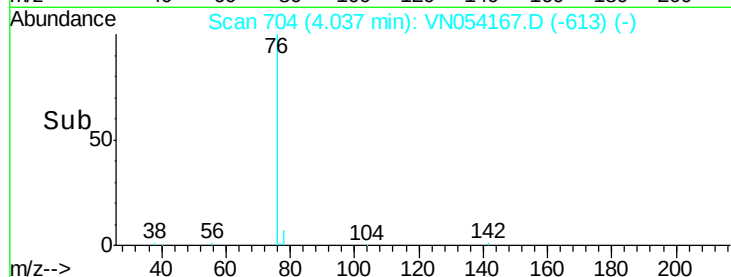
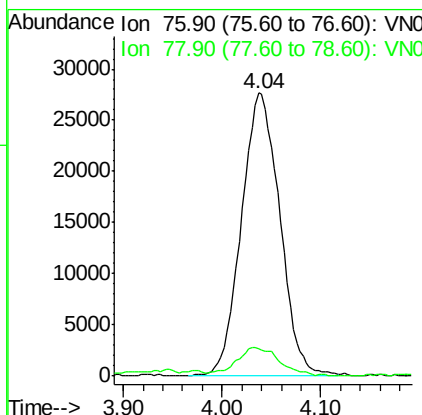
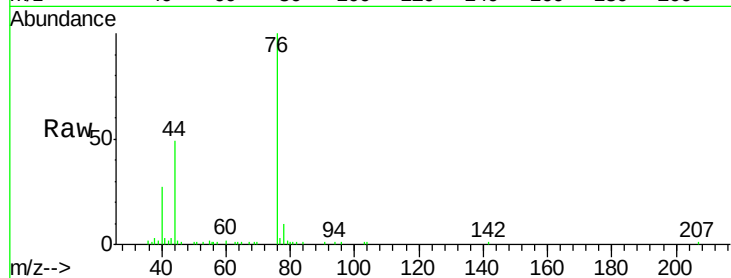




#17
Carbon Disulfide
Concen: 1.897 ug/l
RT: 4.04 min Scan# 704
Delta R.T. -0.01 min
Lab File: VN054167.D
Acq: 12 Mar 2019 16:56

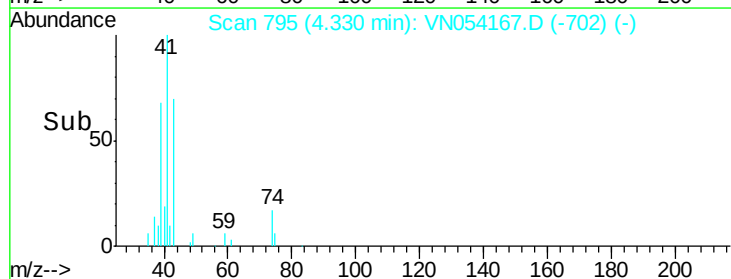
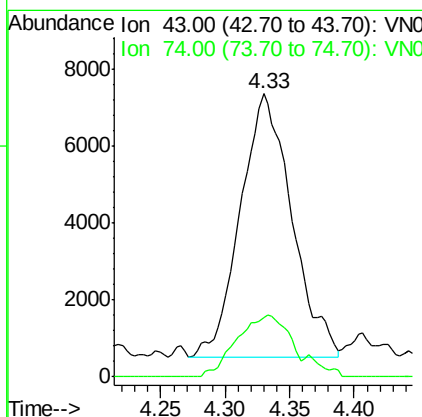
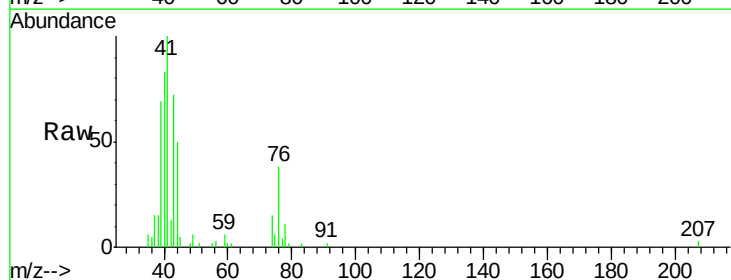
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT1-2019

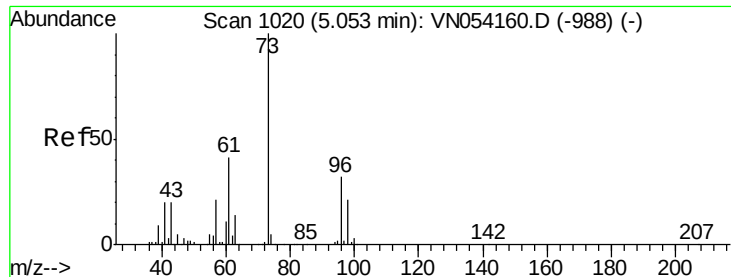
Tot Ion: 76 Resp: 74602
Ion Ratio Lower Upper
76 100
78 9.6 7.5 11.3



#18
Methyl Acetate
Concen: 2.041 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN054167.D
Acq: 12 Mar 2019 16:56

Tgt Ion: 43 Resp: 18962
Ion Ratio Lower Upper
43 100
74 24.1 20.8 31.2

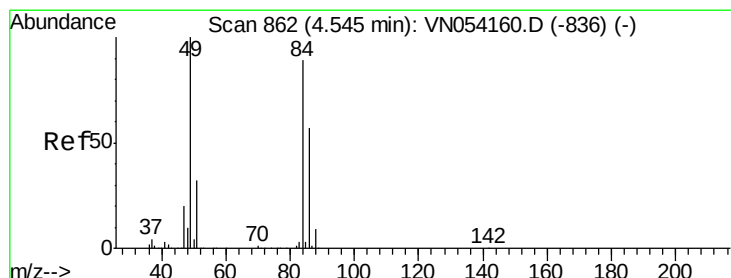
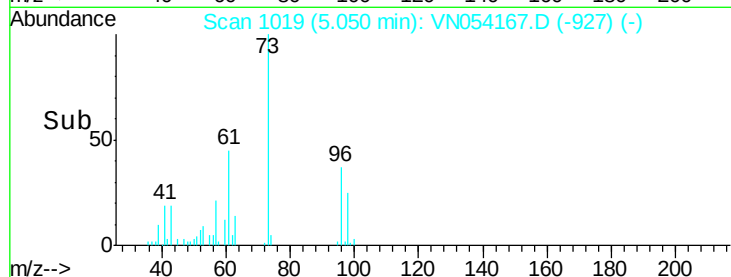
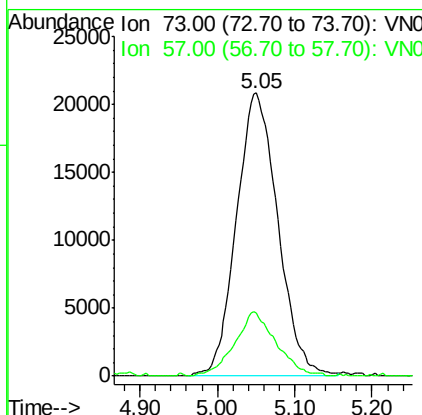
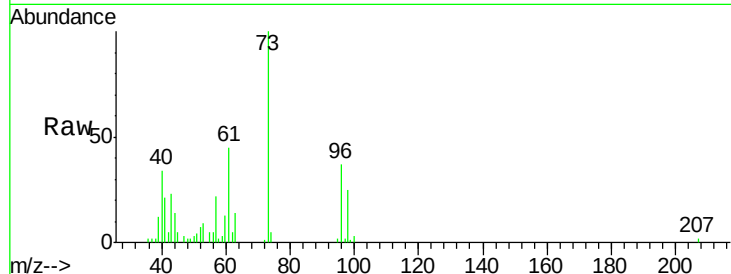




#19
Methyl tert-butyl Ether
Concen: 1.998 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. -0.00 min
Lab File: VN054167.D
Acq: 12 Mar 2019 16:56

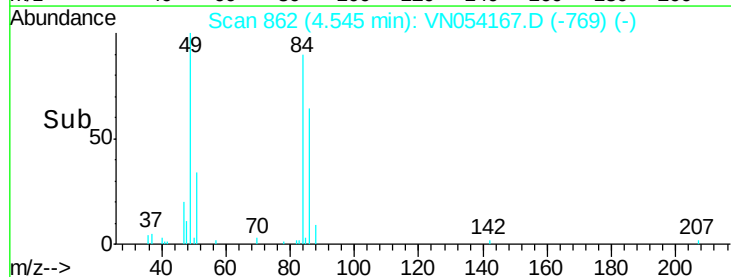
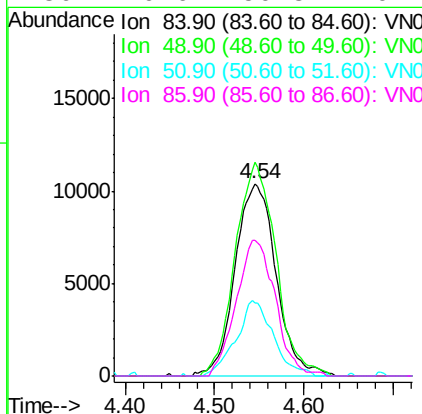
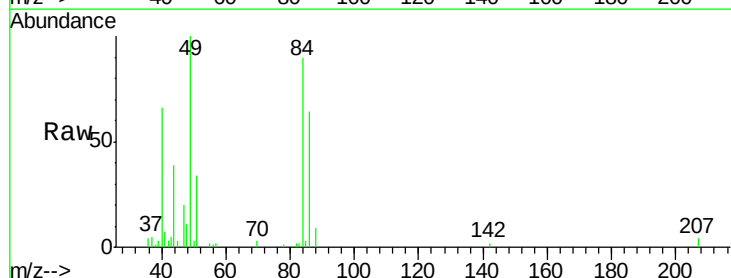
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT1-2019

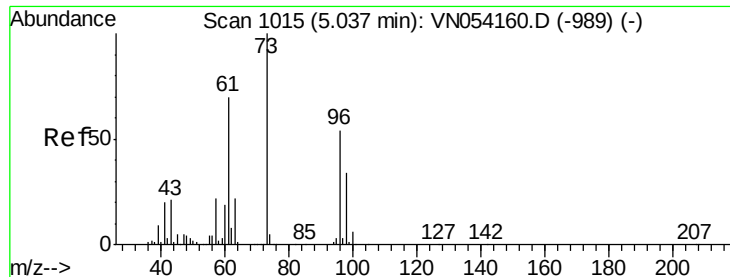
Tot Ion: 73 Resp: 77679
Ion Ratio Lower Upper
73 100
57 22.2 16.8 25.2



#20
Methylene Chloride
Concen: 2.206 ug/l
RT: 4.54 min Scan# 862
Delta R.T. 0.00 min
Lab File: VN054167.D
Acq: 12 Mar 2019 16:56

Tgt Ion: 84 Resp: 33256
Ion Ratio Lower Upper
84 100
49 110.9 89.7 134.5
51 37.8 28.2 42.4
86 70.6 50.8 76.2





#21

trans-1,2-Dichloroethene

Concen: 2.059 ug/l

RT: 5.03 min Scan# 1014

Delta R.T. -0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT1-2019

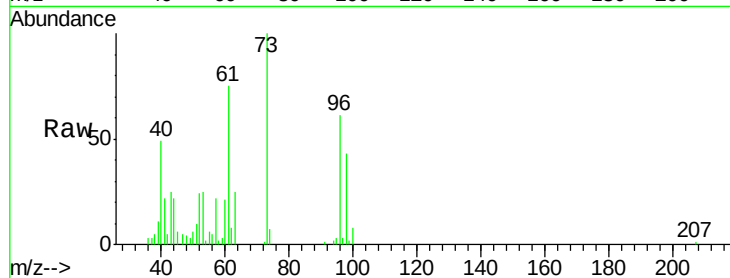
Tot Ion: 96 Resp: 30946

Ion Ratio Lower Upper

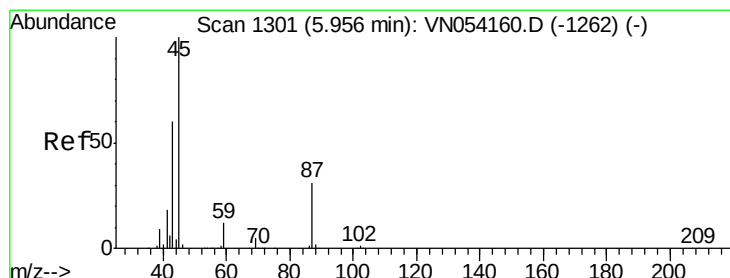
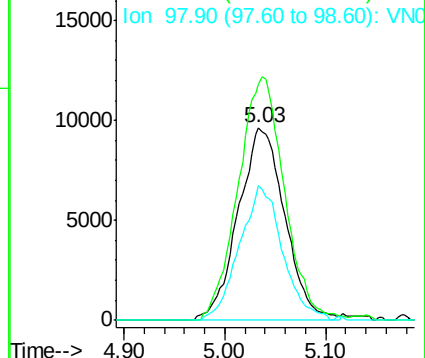
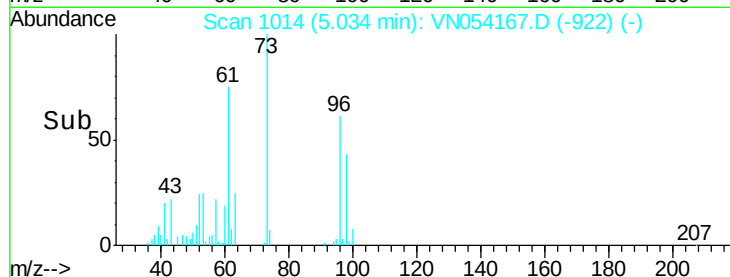
96 100

61 122.7 102.8 154.2

98 69.8 50.0 75.0



Abundance Ion 95.90 (95.60 to 96.60): VN054167.D (-922) (-)



#22

Diisopropyl ether

Concen: 1.932 ug/l

RT: 5.96 min Scan# 1301

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Tgt Ion: 45 Resp: 77591

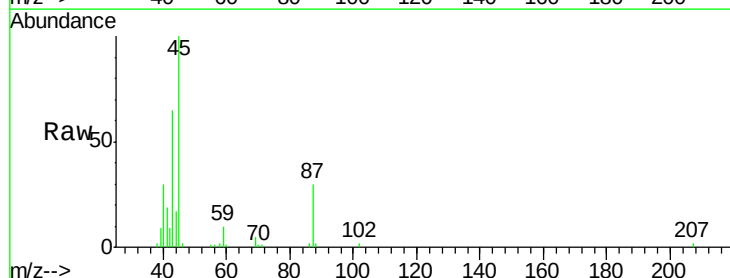
Ion Ratio Lower Upper

45 100

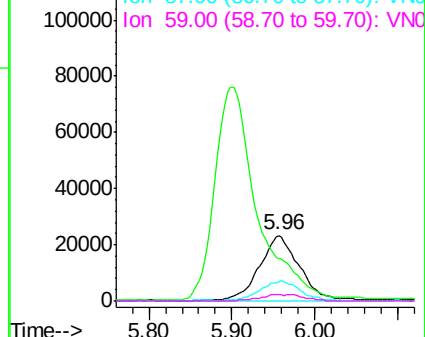
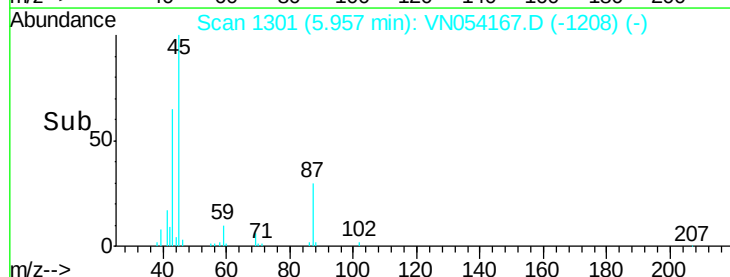
43 58.6 48.2 72.2

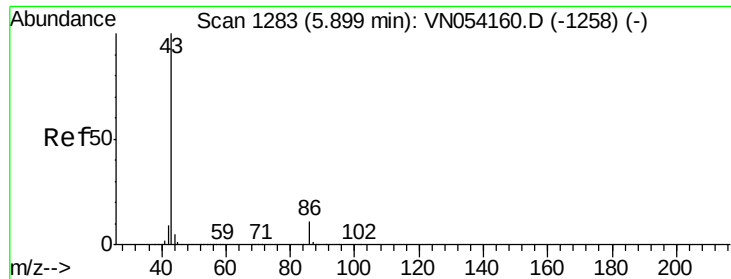
87 29.6 24.9 37.3

59 9.9 9.5 14.3



Abundance Ion 45.00 (44.70 to 45.70): VN054167.D (-1208) (-)





#23

Vinyl Acetate

Concen: 8.992 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Instrument :

MSVOA_N

ClientSampleId :

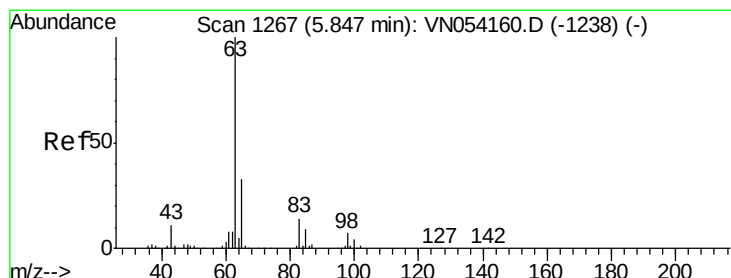
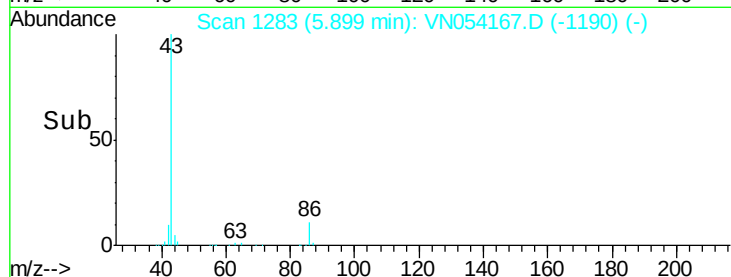
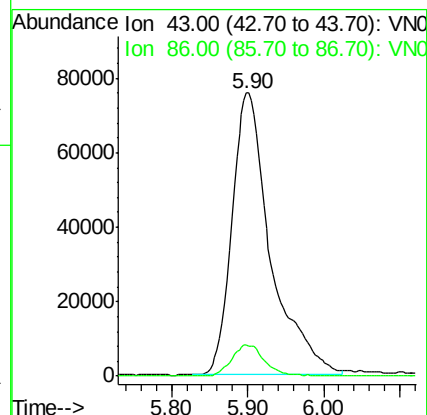
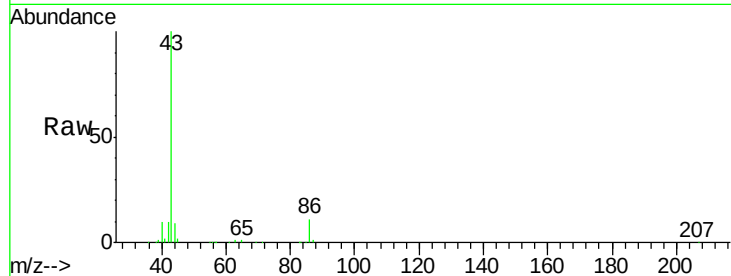
LOQ-WATER-02-QT1-2019

Tot Ion: 43 Resp: 266301

Ion Ratio Lower Upper

43 100

86 11.0 9.1 13.7



#24

1,1-Dichloroethane

Concen: 2.039 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

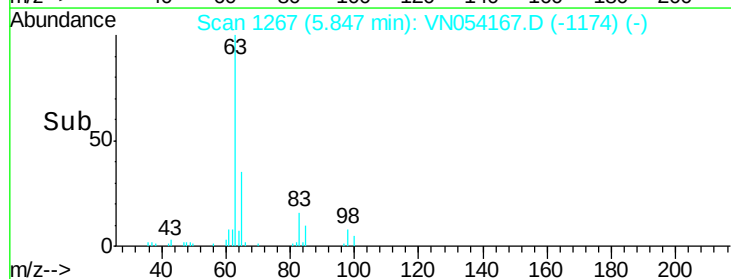
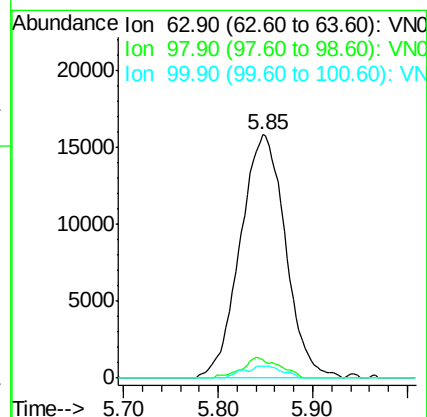
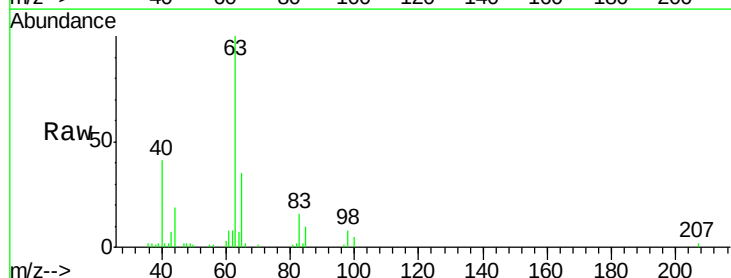
Tgt Ion: 63 Resp: 52577

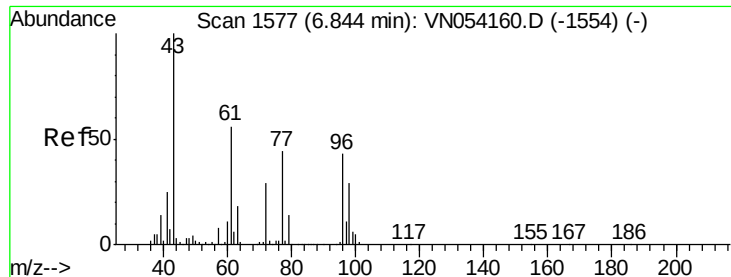
Ion Ratio Lower Upper

63 100

98 7.6 3.5 10.5

100 5.0 2.0 6.0

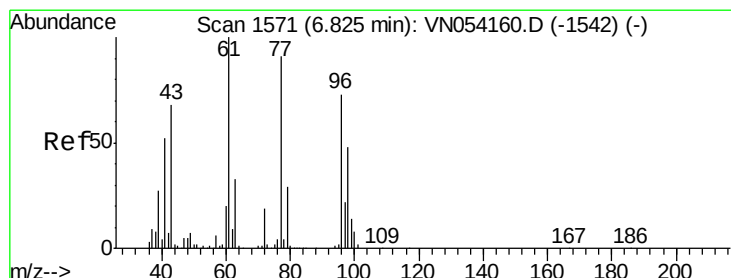
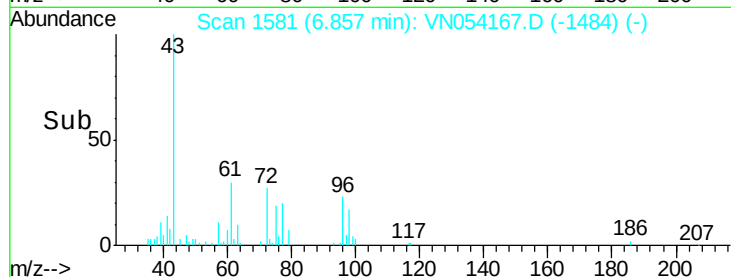
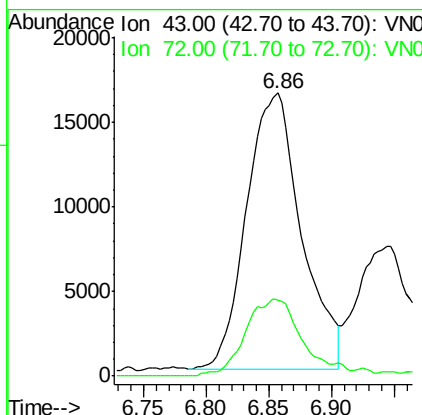
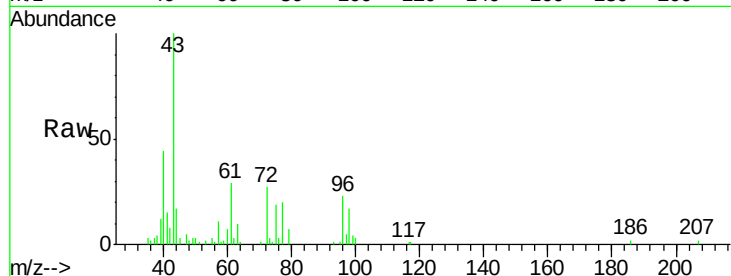




#25
 2-Butanone
 Concen: 9.247 ug/l
 RT: 6.86 min Scan# 1581
 Delta R.T. 0.01 min
 Lab File: VN054167.D
 Acq: 12 Mar 2019 16:56

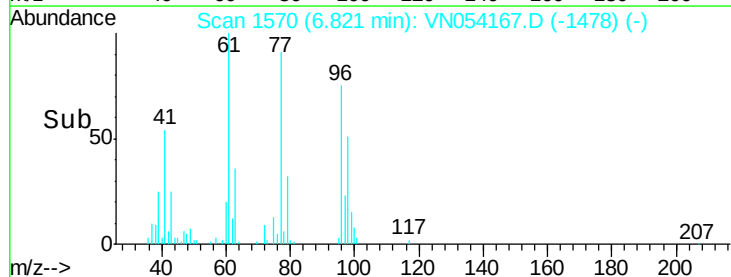
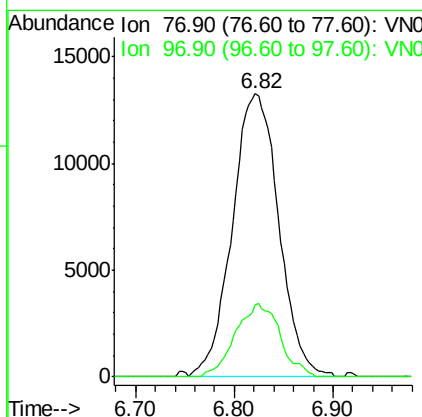
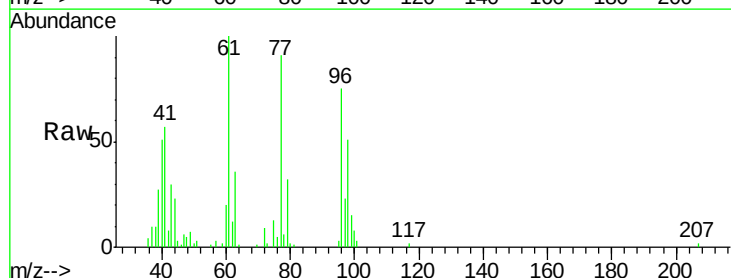
Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT1-2019

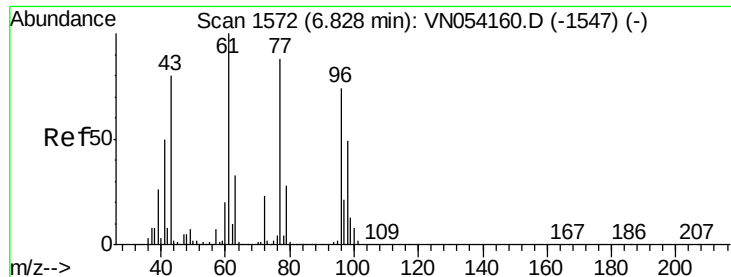
Tot Ion: 43 Resp: 49831
 Ion Ratio Lower Upper
 43 100
 72 27.4 23.0 34.6



#26
 2,2-Dichloropropane
 Concen: 1.910 ug/l
 RT: 6.82 min Scan# 1570
 Delta R.T. -0.00 min
 Lab File: VN054167.D
 Acq: 12 Mar 2019 16:56

Tgt Ion: 77 Resp: 43329
 Ion Ratio Lower Upper
 77 100
 97 24.9 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 2.085 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT1-2019

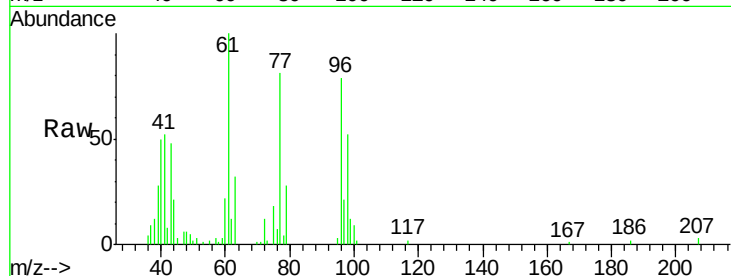
Tot Ion: 96 Resp: 34966

Ion Ratio Lower Upper

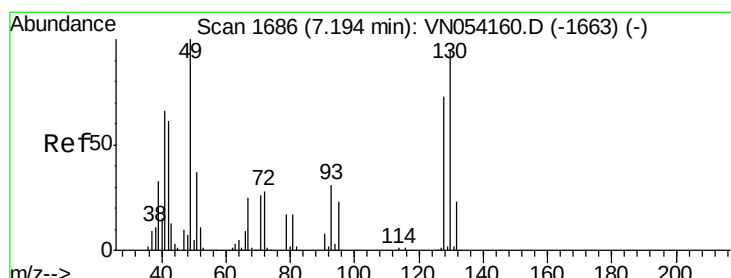
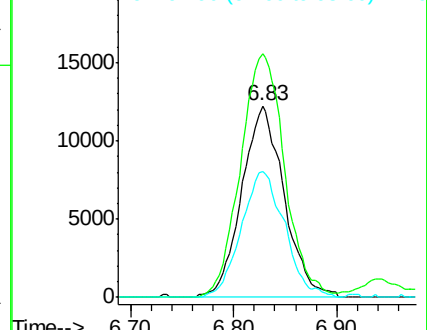
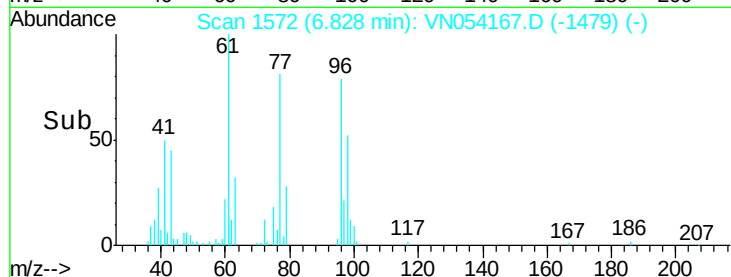
96 100

61 132.3 0.0 273.0

98 67.2 0.0 130.6



Abundance Ion 95.90 (95.60 to 96.60): VN054167.D (-1479) (-)



#28

Bromochloromethane

Concen: 2.087 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

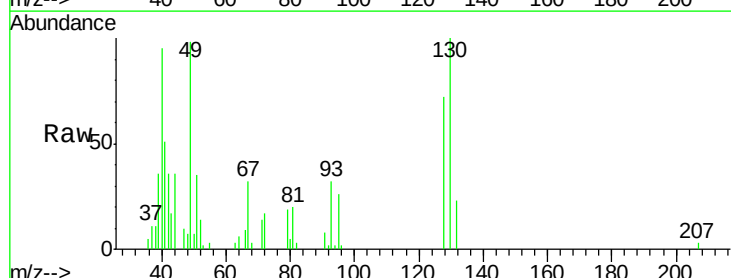
Tgt Ion: 49 Resp: 22009

Ion Ratio Lower Upper

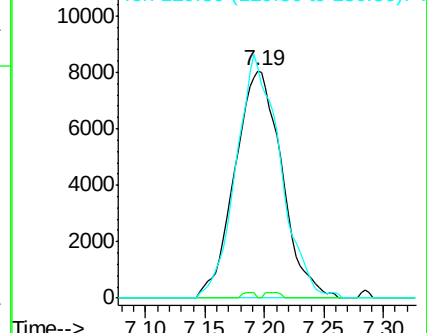
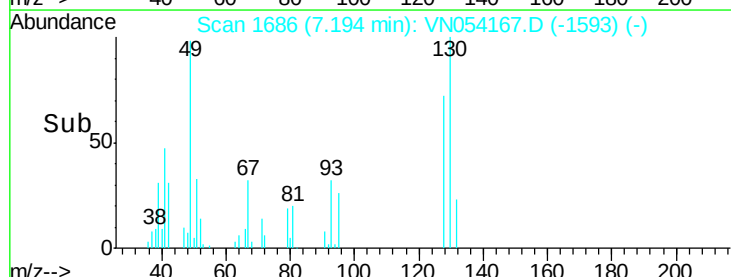
49 100

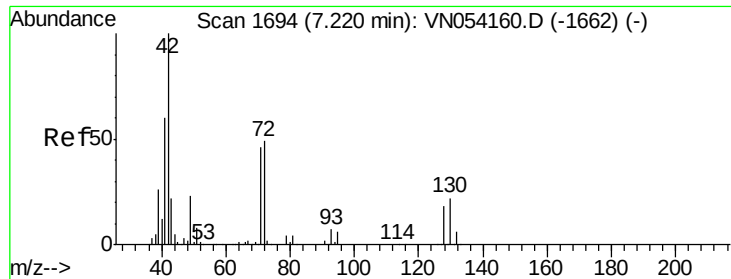
129 0.7 0.0 4.6

130 100.3 76.7 115.1



Abundance Ion 48.90 (48.60 to 49.60): VN054167.D (-1593) (-)

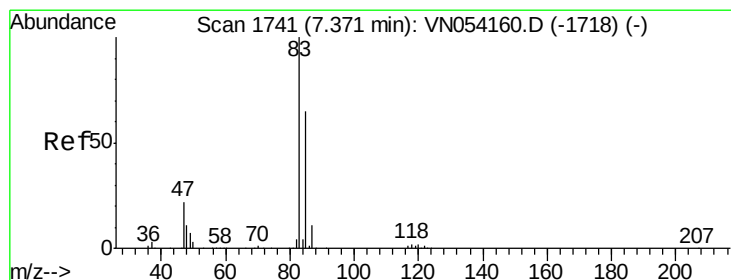
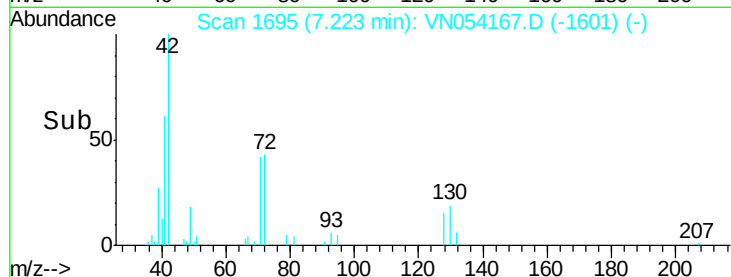
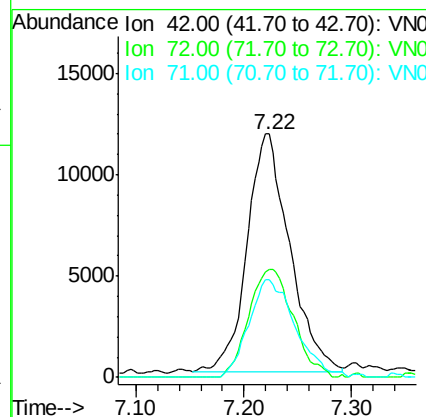
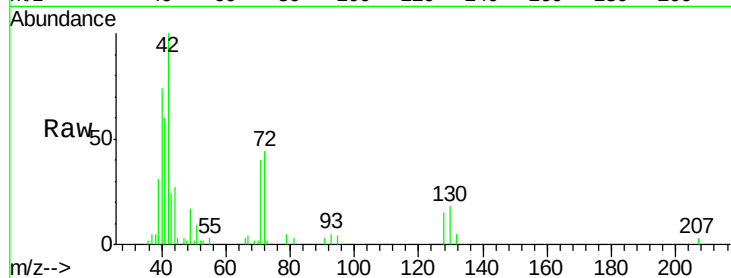




#29
Tetrahydrofuran
Concen: 9.248 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.00 min
Lab File: VN054167.D
Acq: 12 Mar 2019 16:56

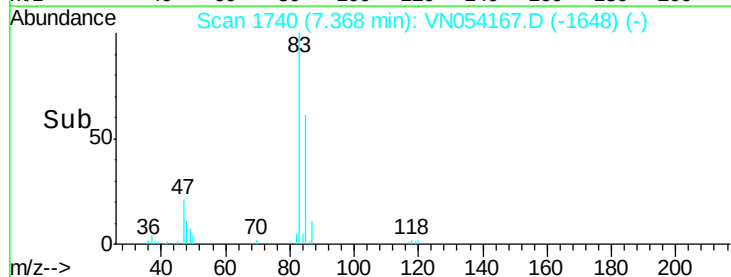
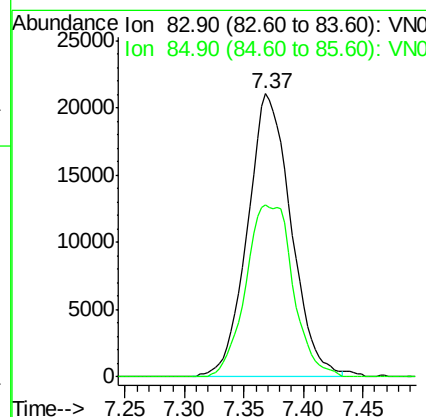
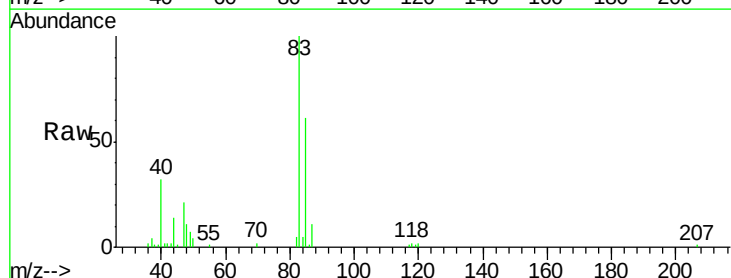
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT1-2019

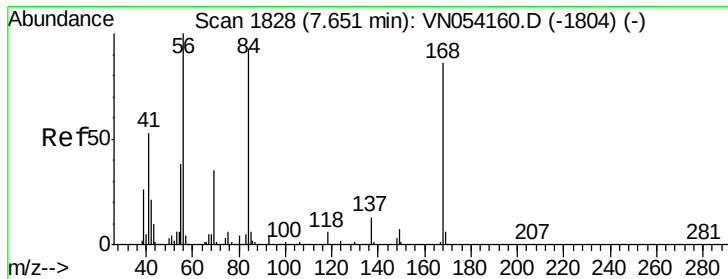
Tot Ion: 42 Resp: 32044
Ion Ratio Lower Upper
42 100
72 47.5 37.8 56.6
71 45.0 36.2 54.2



#30
Chloroform
Concen: 1.982 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VN054167.D
Acq: 12 Mar 2019 16:56

Tgt Ion: 83 Resp: 53347
Ion Ratio Lower Upper
83 100
85 60.7 52.2 78.4





#31

Cyclohexane

Concen: 1.592 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT1-2019

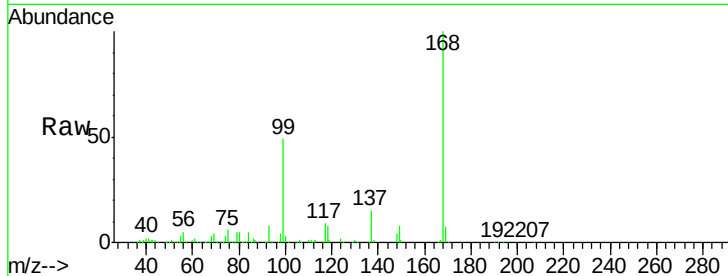
Tot Ion: 56 Resp: 67043

Ion Ratio Lower Upper

56 100

69 77.3 27.8 41.6#

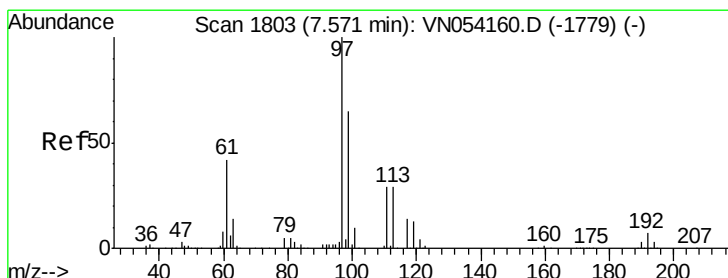
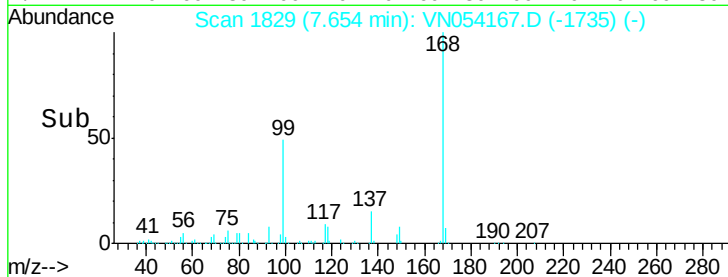
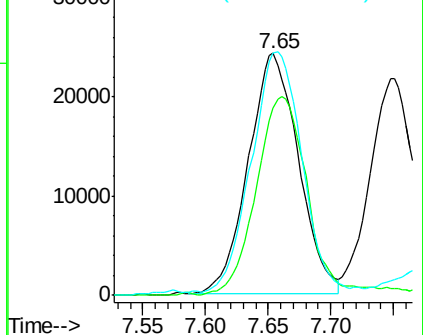
84 99.7 74.6 111.8



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 1.914 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

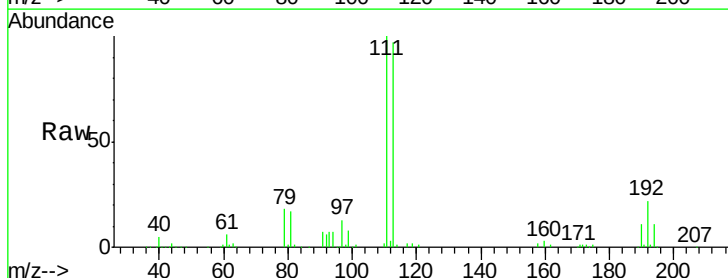
Tgt Ion: 97 Resp: 46520

Ion Ratio Lower Upper

97 100

99 64.8 51.5 77.3

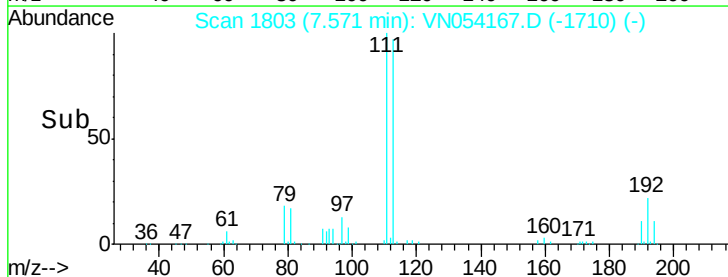
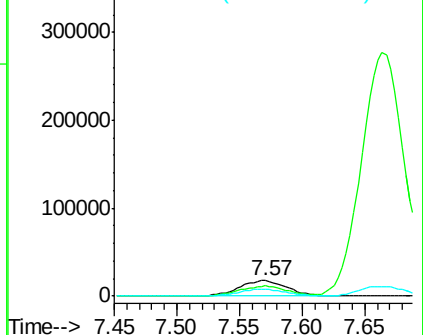
61 44.9 33.6 50.4

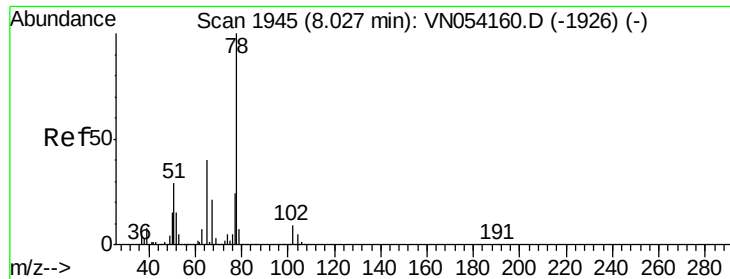


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

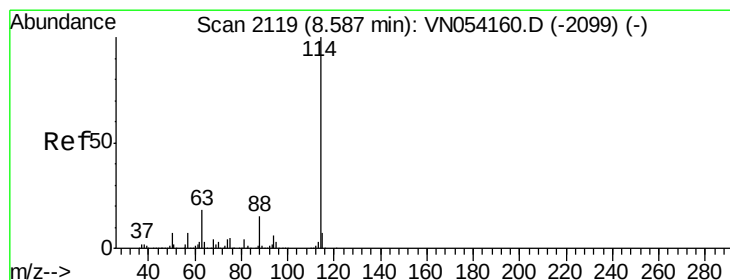
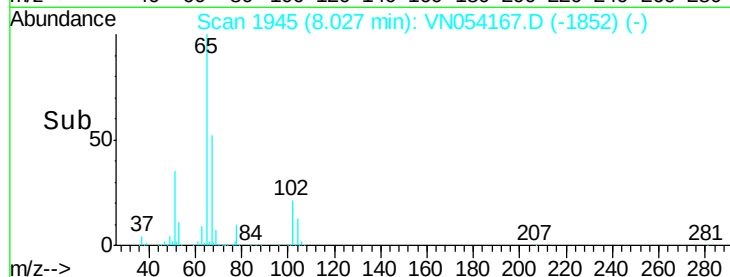
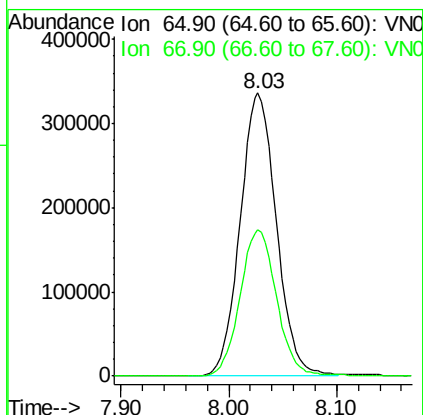
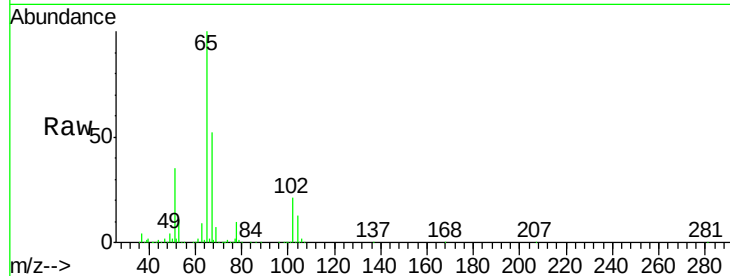




#33
 1,2-Dichloroethane-d4
 Concen: 49.019 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054167.D
 Acq: 12 Mar 2019 16:56

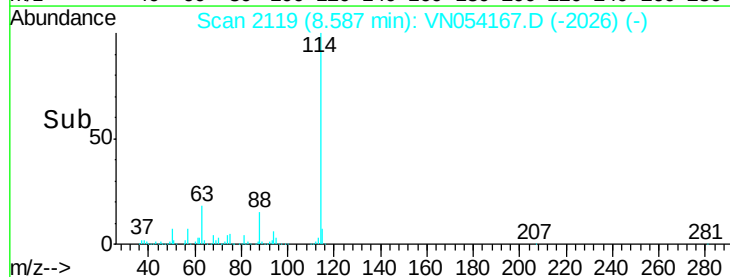
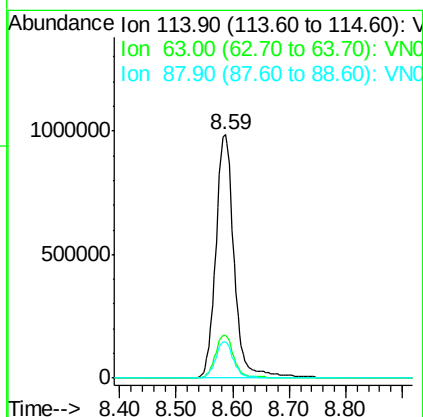
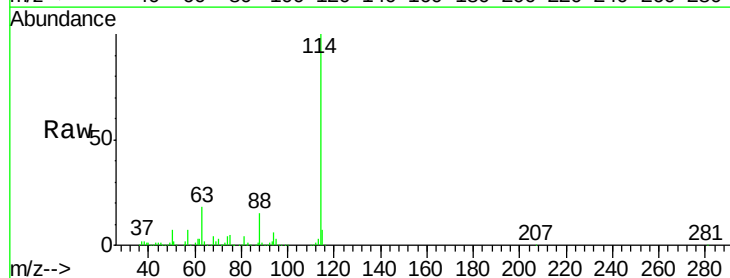
Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT1-2019

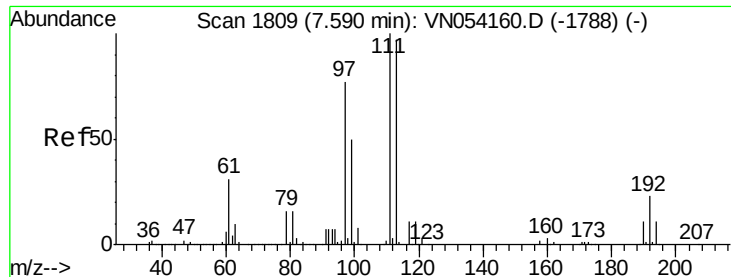
Tot Ion: 65 Resp: 786044
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054167.D
 Acq: 12 Mar 2019 16:56

Tgt Ion: 114 Resp: 2228069
 Ion Ratio Lower Upper
 114 100
 63 17.7 0.0 35.2
 88 14.9 0.0 30.2

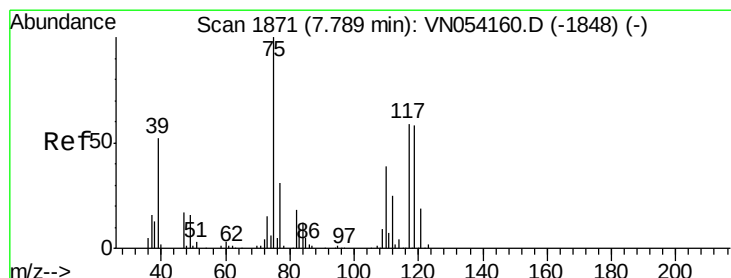
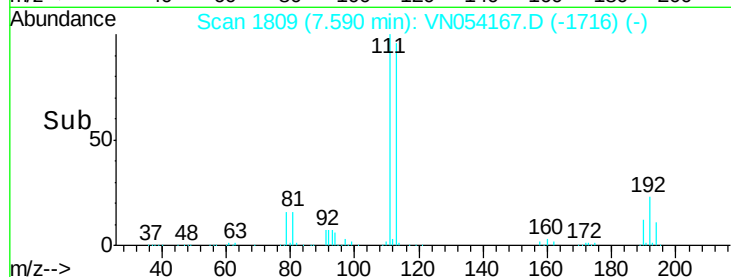
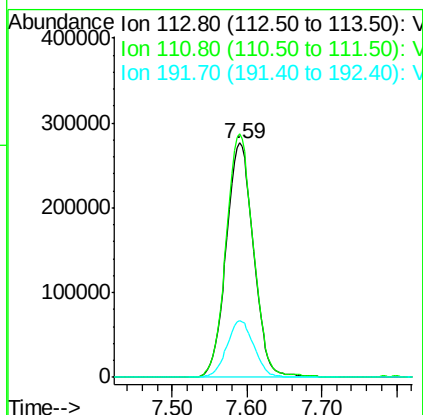
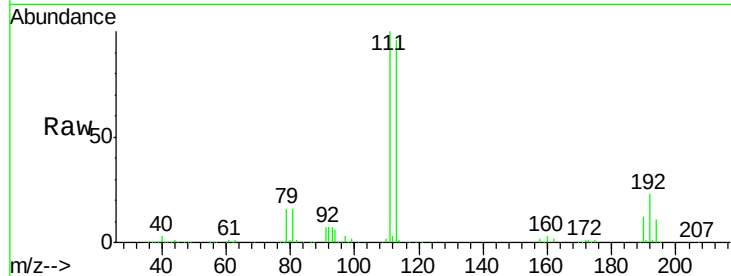




#35
 Dibromofluoromethane
 Concen: 48.949 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054167.D
 Acq: 12 Mar 2019 16:56

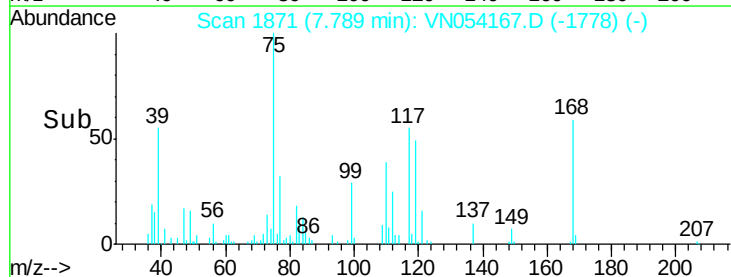
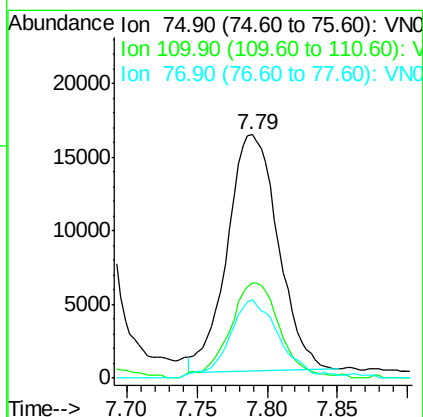
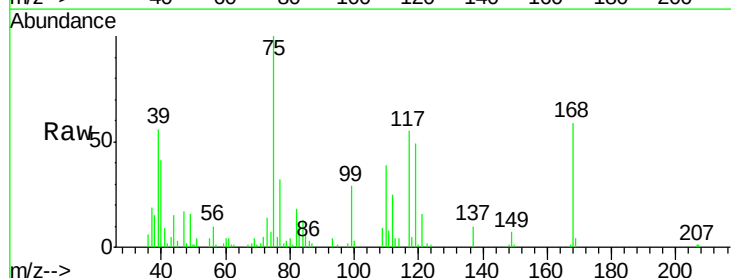
Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT1-2019

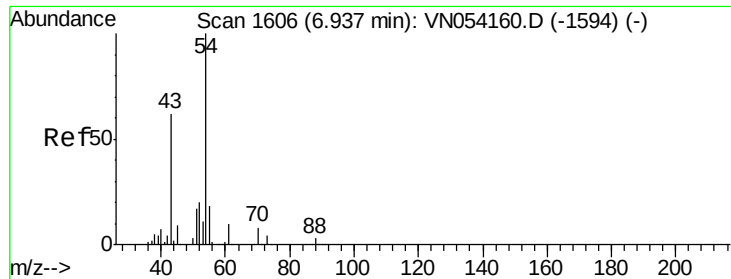
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.2	123.4
192	24.0	19.2	28.8



#36
 1,1-Dichloropropene
 Concen: 1.973 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. 0.00 min
 Lab File: VN054167.D
 Acq: 12 Mar 2019 16:56

Tgt Ion	Ratio	Lower	Upper
75	100		
110	39.7	19.1	57.5
77	32.0	25.0	37.4

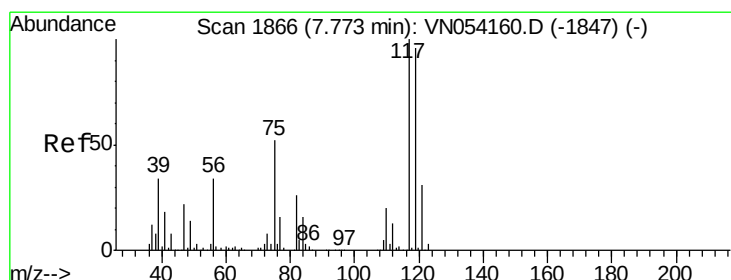
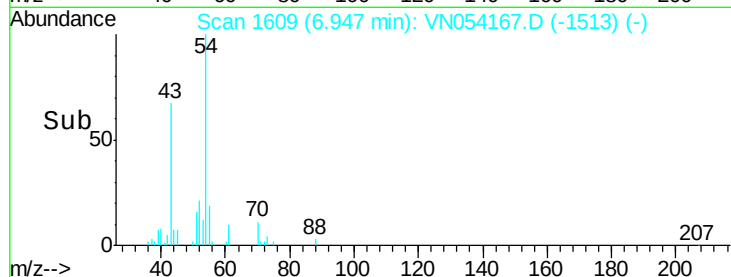
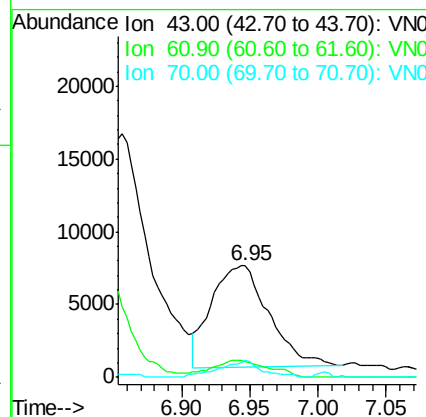
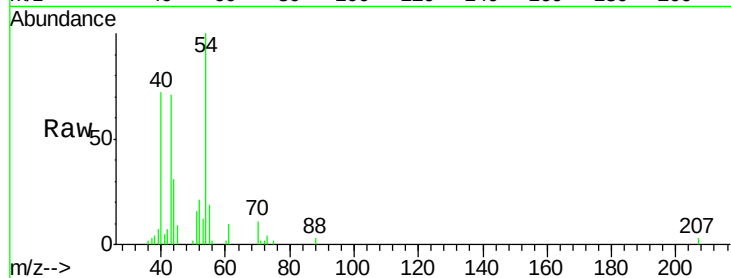




#37
Ethyl Acetate
Concen: 1.755 ug/l
RT: 6.95 min Scan# 1609
Delta R.T. 0.01 min
Lab File: VN054167.D
Acq: 12 Mar 2019 16:56

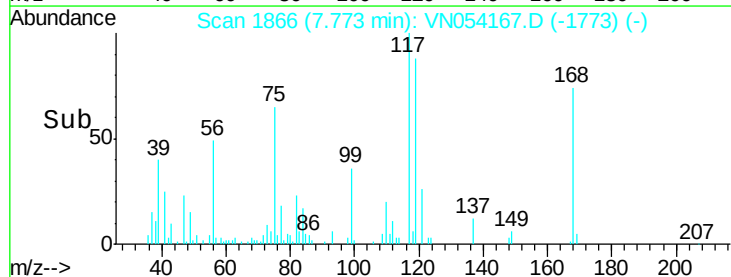
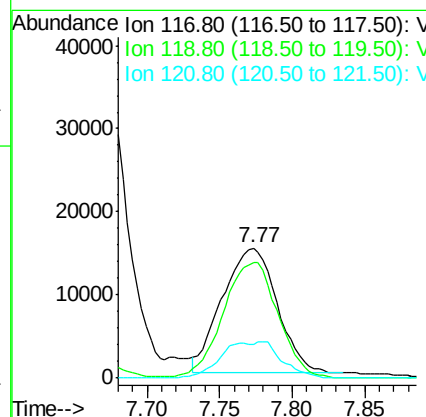
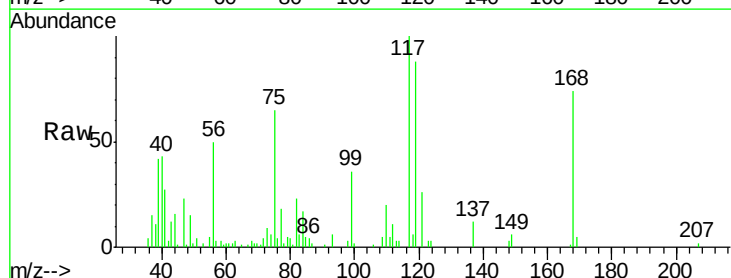
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT1-2019

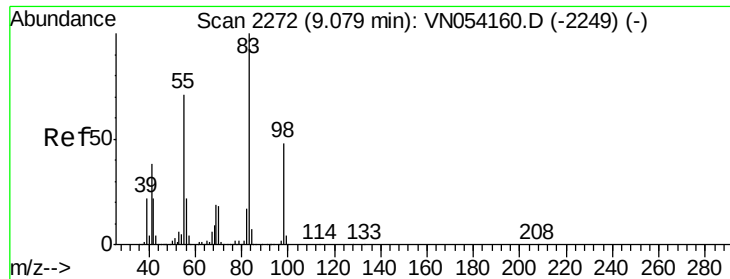
Tot Ion: 43 Resp: 20687
Ion Ratio Lower Upper
43 100
61 16.5 11.8 17.6
70 12.0 8.4 12.6



#38
Carbon Tetrachloride
Concen: 1.849 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN054167.D
Acq: 12 Mar 2019 16:56

Tgt Ion: 117 Resp: 39784
Ion Ratio Lower Upper
117 100
119 92.0 76.3 114.5
121 27.2 24.6 36.8

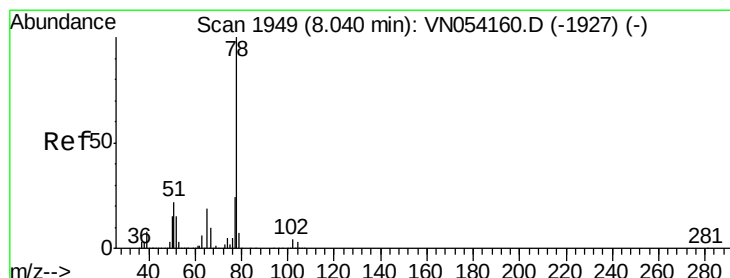
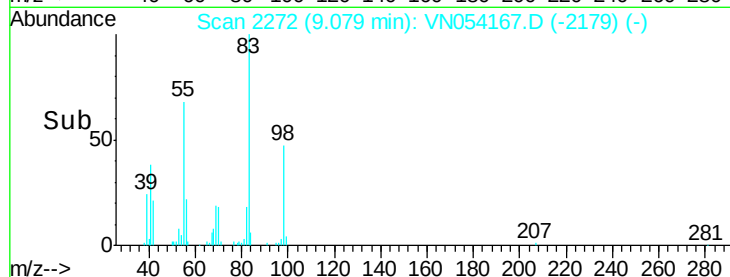
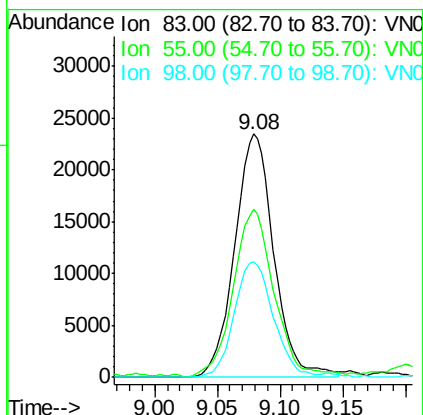
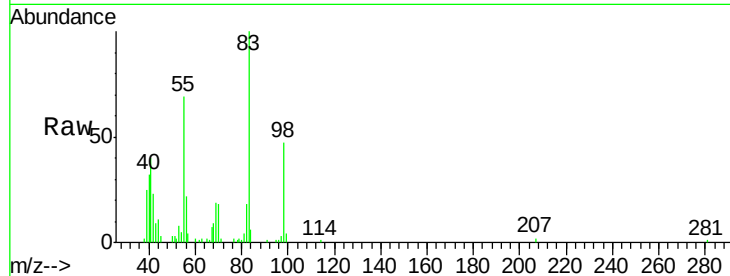




#39
Methylvlcyclohexane
Concen: 2.021 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN054167.D
Acq: 12 Mar 2019 16:56

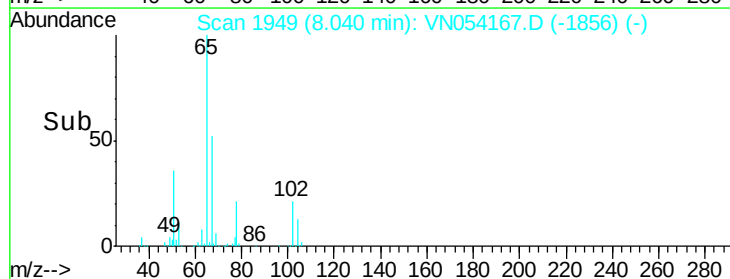
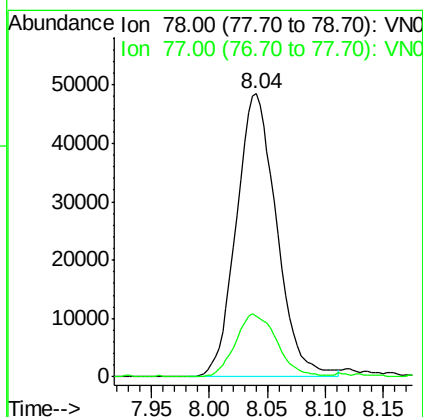
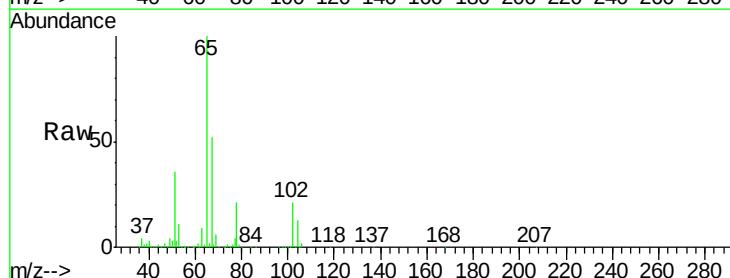
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT1-2019

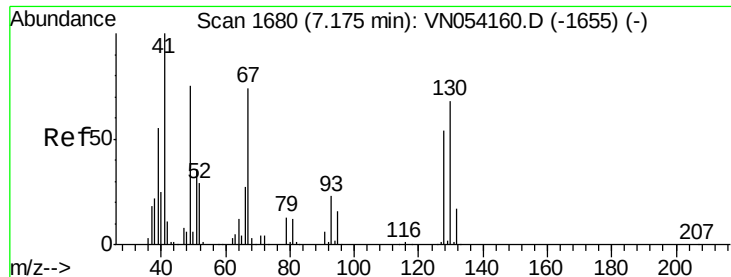
Tot Ion: 83 Resp: 51015
Ion Ratio Lower Upper
83 100
55 68.8 56.6 84.8
98 47.4 38.4 57.6



#40
Benzene
Concen: 1.998 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN054167.D
Acq: 12 Mar 2019 16:56

Tgt Ion: 78 Resp: 117300
Ion Ratio Lower Upper
78 100
77 21.5 19.1 28.7

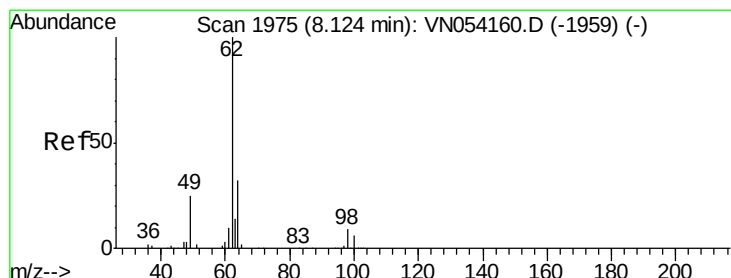
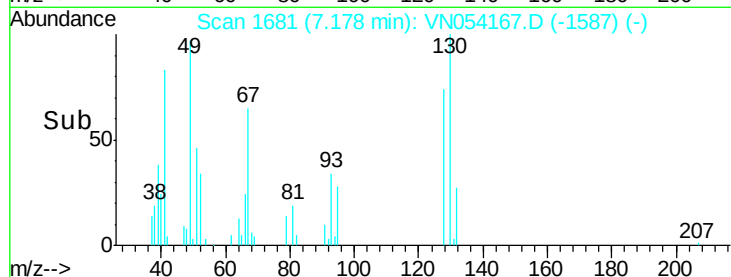
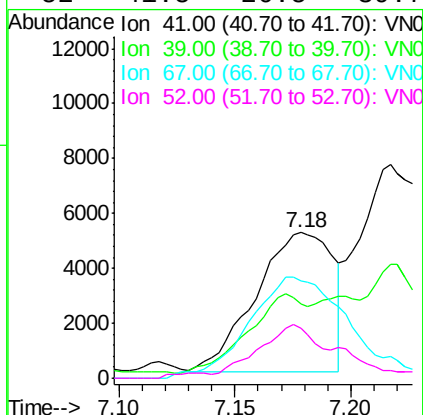
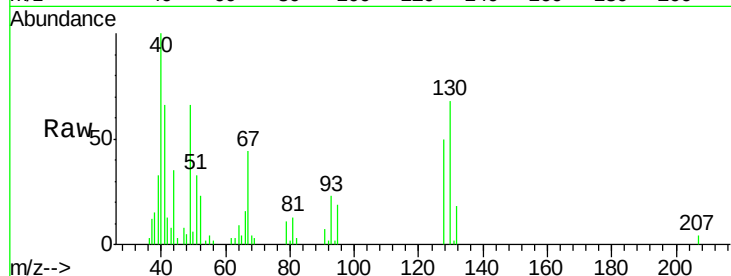




#41
Methacrylonitrile
Concen: 1.752 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN054167.D
Acq: 12 Mar 2019 16:56

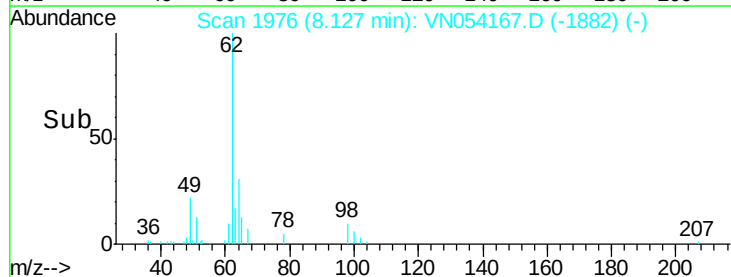
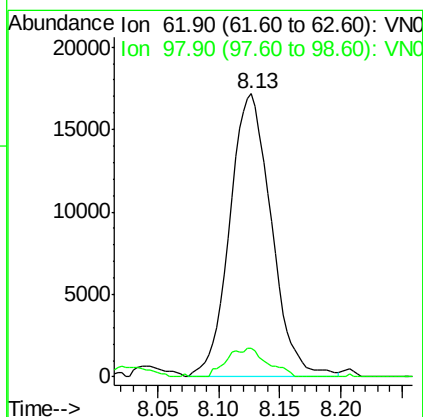
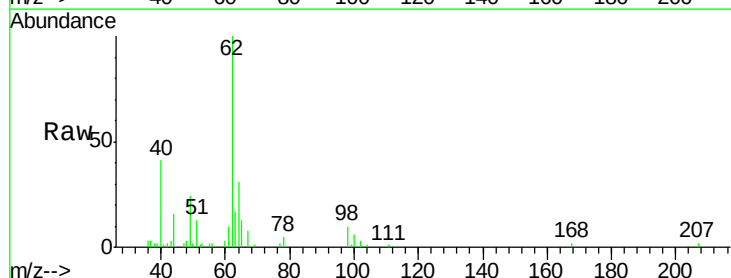
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT1-2019

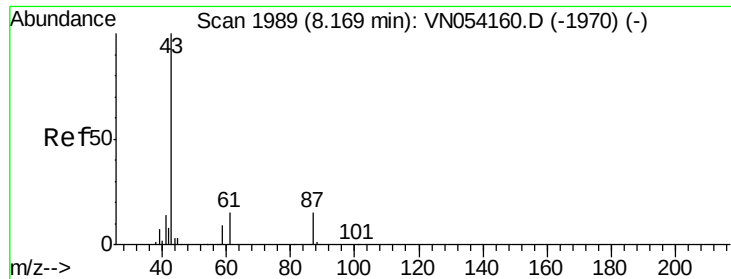
Tot Ion: 41 Resp: 11794
Ion Ratio Lower Upper
41 100
39 41.6 46.8 70.2#
67 92.7 67.0 100.4
52 41.5 26.5 39.7#



#42
1,2-Dichloroethane
Concen: 2.051 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN054167.D
Acq: 12 Mar 2019 16:56

Tgt Ion: 62 Resp: 40661
Ion Ratio Lower Upper
62 100
98 9.9 0.0 18.4





#43

Isopropyl Acetate

Concen: 1.783 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT1-2019

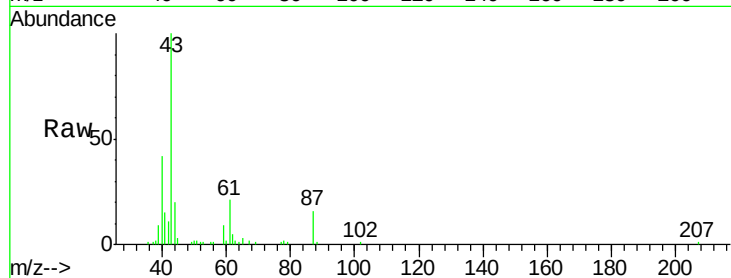
Tot Ion: 43 Resp: 36896

Ion Ratio Lower Upper

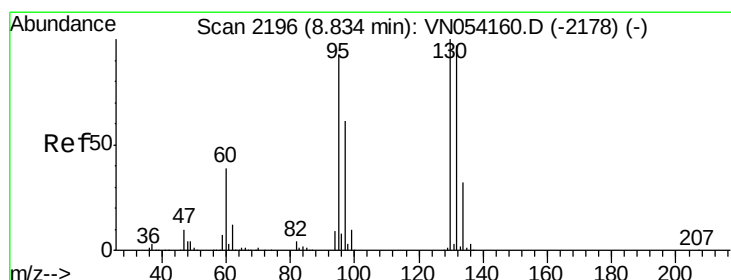
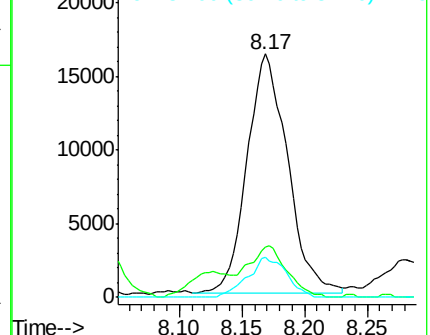
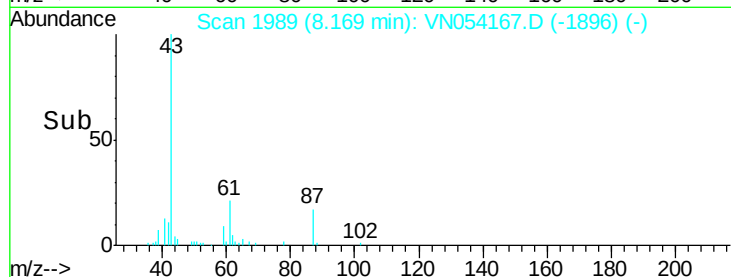
43 100

61 20.6 15.8 23.8

87 15.8 12.0 18.0



Abundance Ion 43.00 (42.70 to 43.70): VN054167.D (-1896) (-)



#44

Trichloroethene

Concen: 2.001 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN054167.D

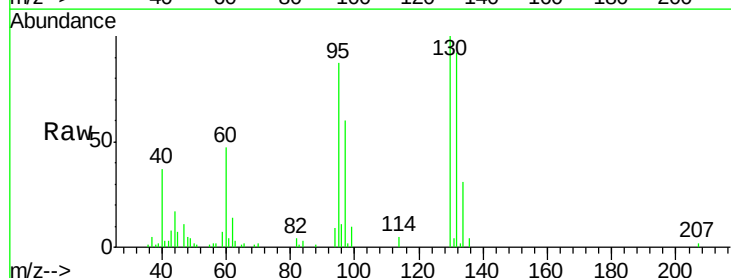
Acq: 12 Mar 2019 16:56

Tgt Ion: 130 Resp: 36492

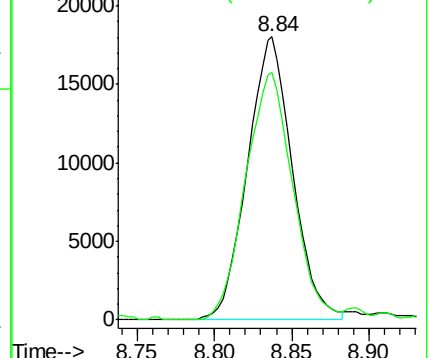
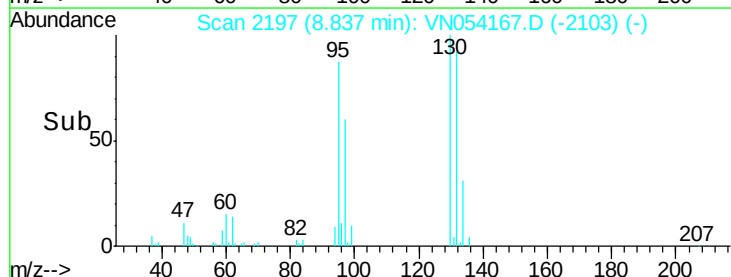
Ion Ratio Lower Upper

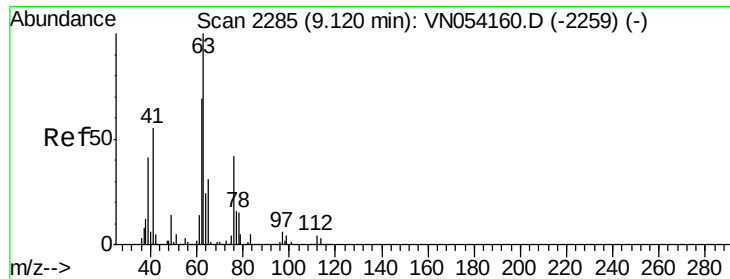
130 100

95 87.3 0.0 185.2



Abundance Ion 129.80 (129.50 to 130.50): VN054167.D (-2103) (-)





#45

1,2-Dichloropropane

Concen: 2.003 ug/l

RT: 9.12 min Scan# 2284

Delta R.T. -0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Instrument :

MSVOA_N

ClientSampleId :

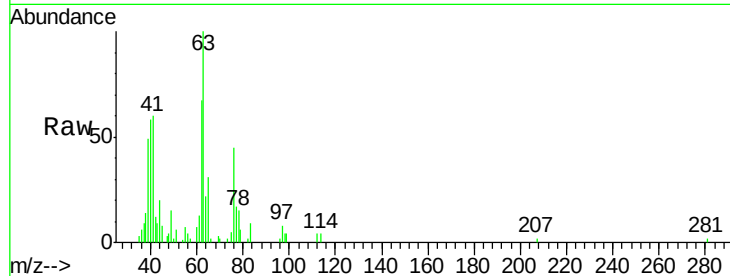
LOQ-WATER-02-QT1-2019

Tot Ion: 63 Resp: 29203

Ion Ratio Lower Upper

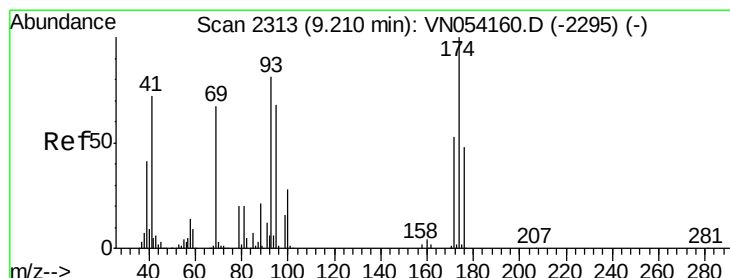
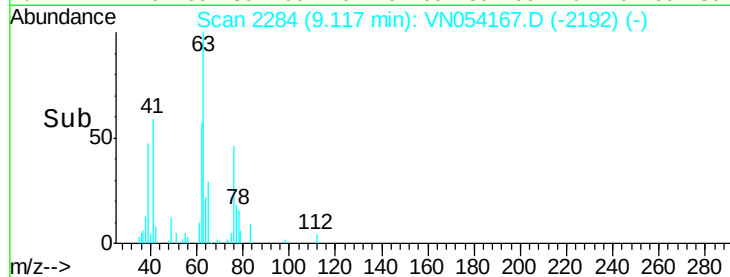
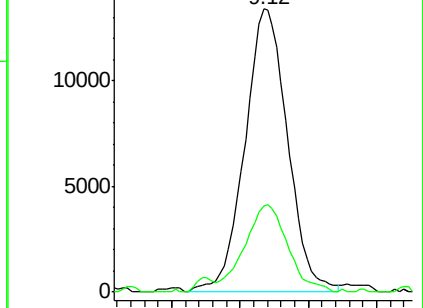
63 100

65 30.7 25.0 37.6



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO



#46

Dibromomethane

Concen: 1.964 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

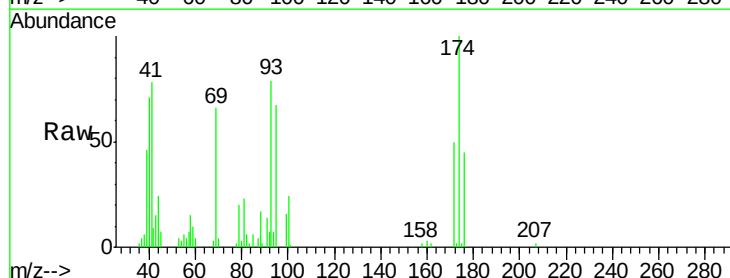
Tgt Ion: 93 Resp: 19350

Ion Ratio Lower Upper

93 100

95 83.9 66.7 100.1

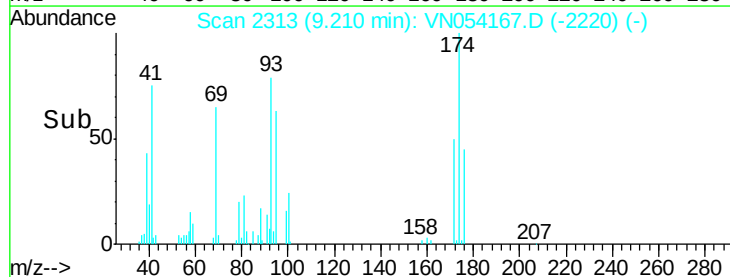
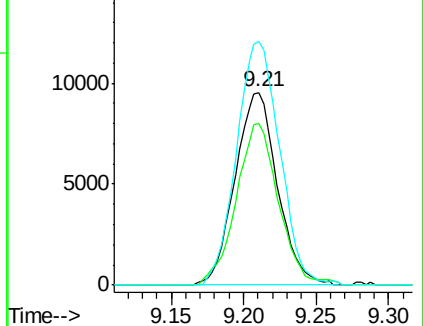
174 129.2 98.5 147.7

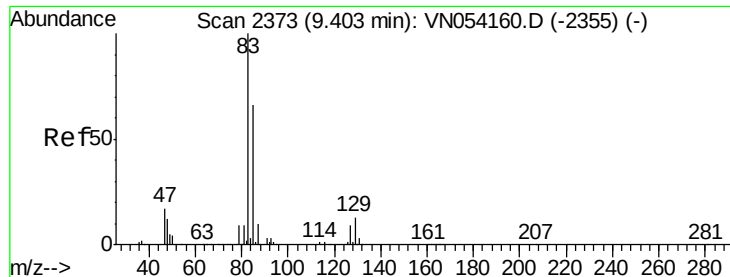


Abundance Ion 92.80 (92.50 to 93.50): VNO

Ion 94.80 (94.50 to 95.50): VNO

Ion 173.70 (173.40 to 174.40): VNO





#47

Bromodichloromethane

Concen: 1.916 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT1-2019

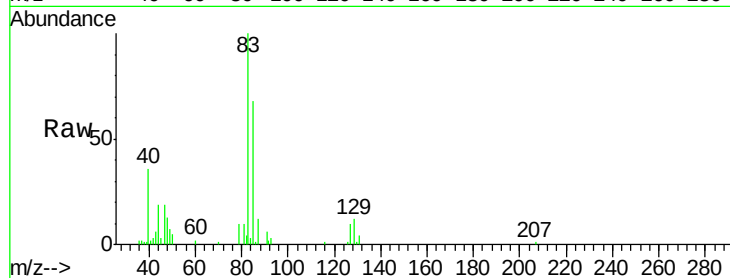
Tot Ion: 83 Resp: 37846

Ion Ratio Lower Upper

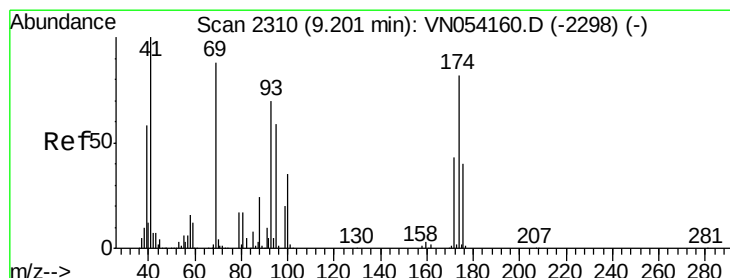
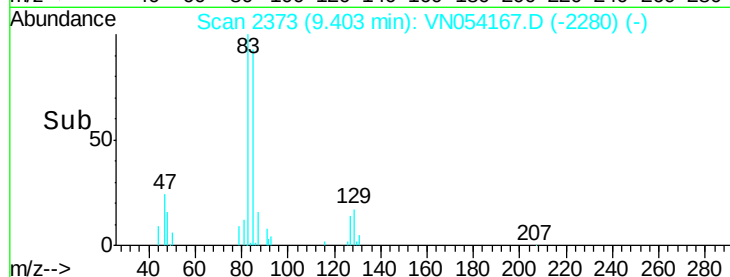
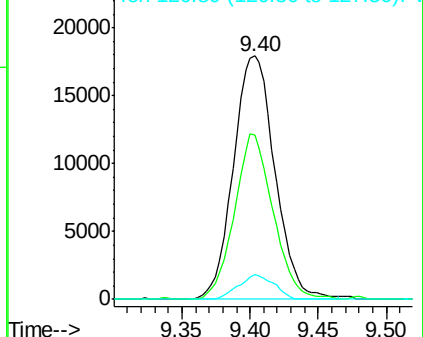
83 100

85 67.7 52.8 79.2

127 10.2 7.4 11.2



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



#48

Methyl methacrylate

Concen: 1.831 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

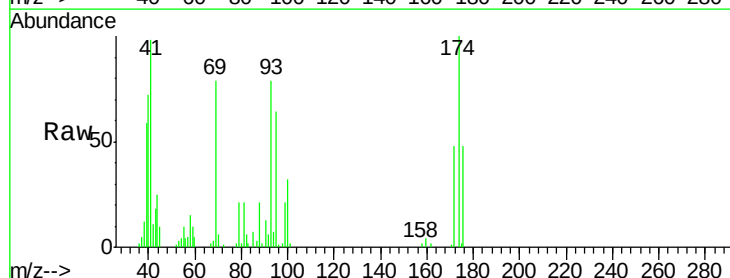
Tgt Ion: 41 Resp: 19226

Ion Ratio Lower Upper

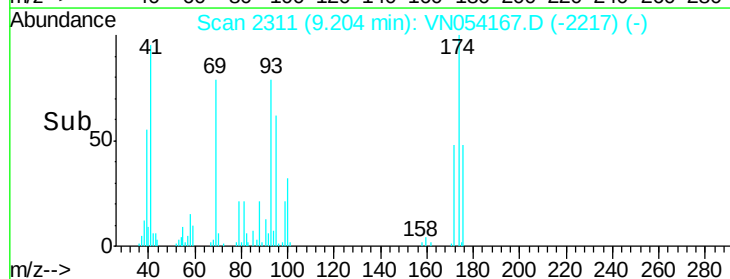
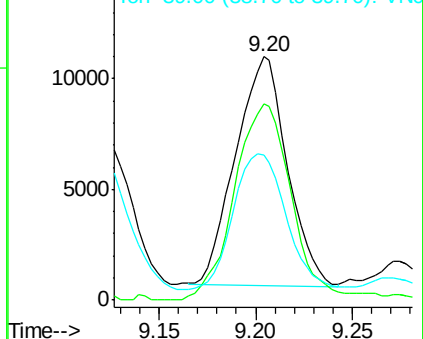
41 100

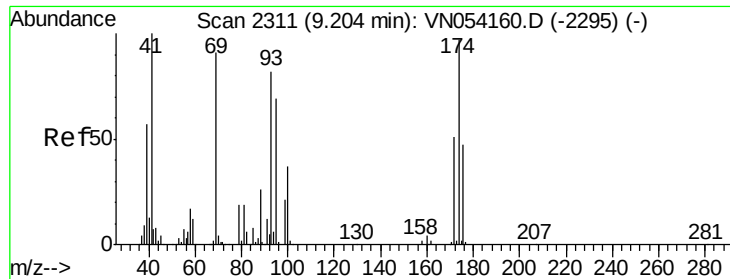
69 94.1 72.6 108.8

39 68.1 47.5 71.3



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

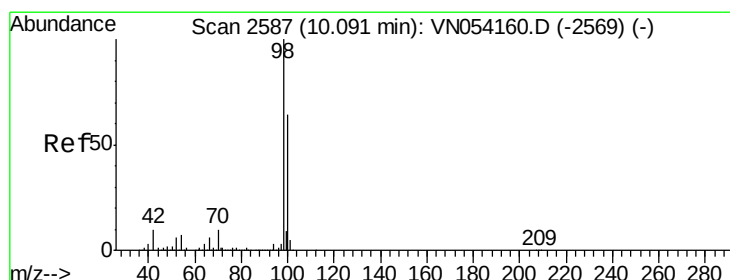
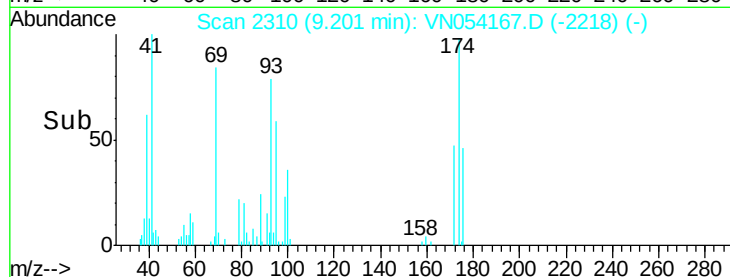
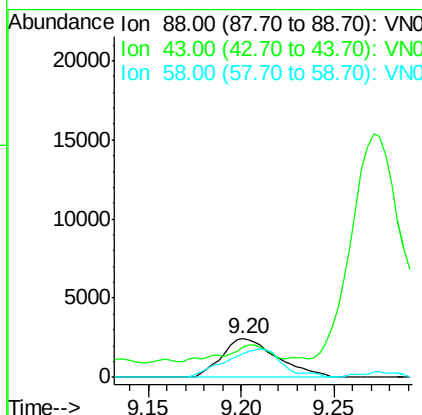
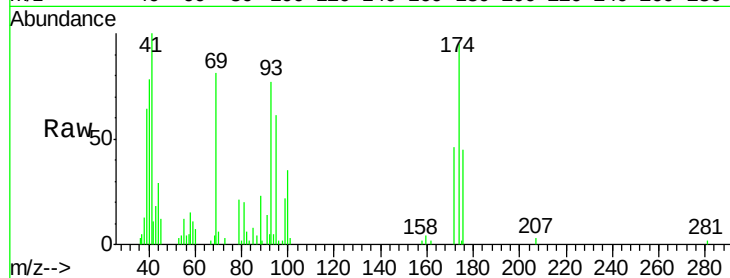




#49
1,4-Dioxane
Concen: 34.063 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. -0.00 min
Lab File: VN054167.D
Acq: 12 Mar 2019 16:56

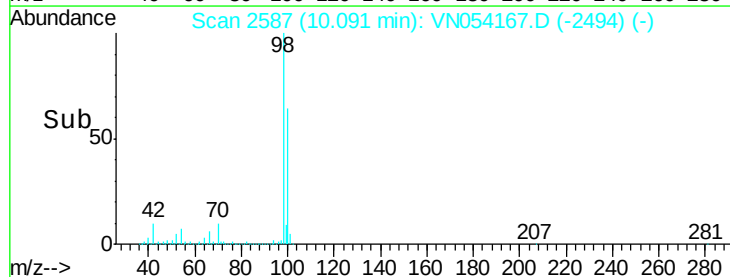
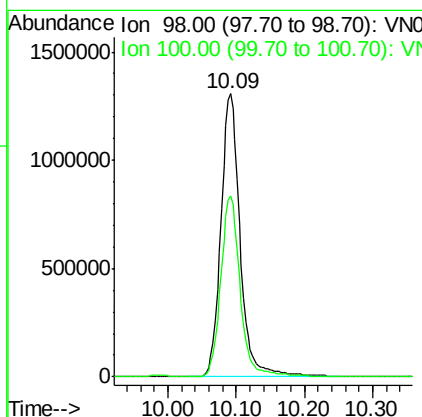
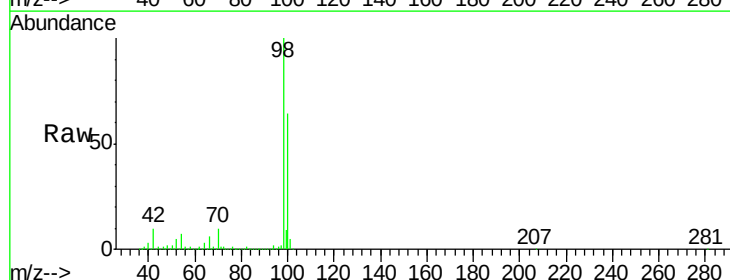
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT1-2019

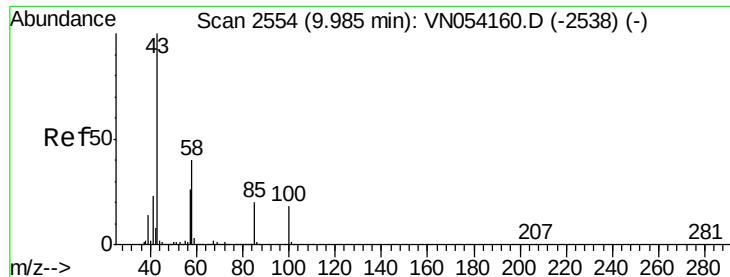
Tot Ion: 88 Resp: 5060
Ion Ratio Lower Upper
88 100
43 32.7 24.1 36.1
58 74.1 50.8 76.2



#50
Toluene-d8
Concen: 48.482 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN054167.D
Acq: 12 Mar 2019 16:56

Tgt Ion: 98 Resp: 2572975
Ion Ratio Lower Upper
98 100
100 64.4 51.2 76.8

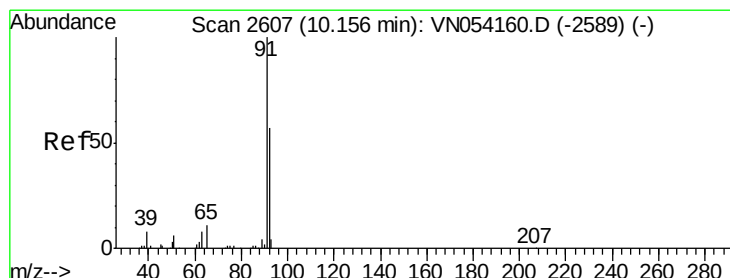
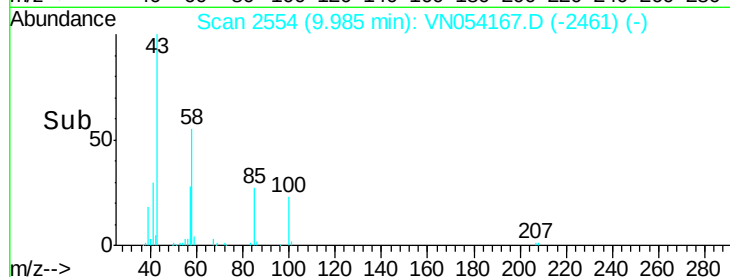
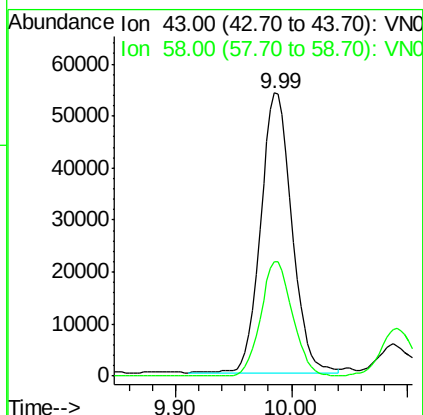
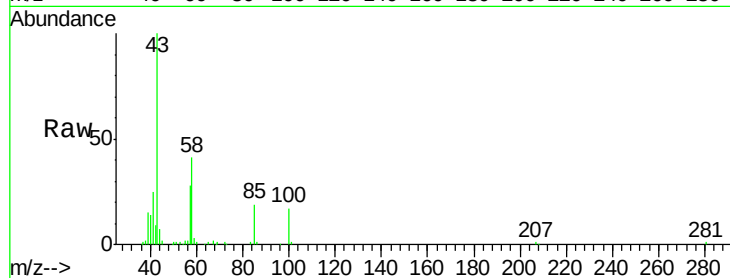




#51
 4-Methyl-2-Pentanone
 Concen: 9.156 ug/l
 RT: 9.99 min Scan# 2554
 Delta R.T. 0.00 min
 Lab File: VN054167.D
 Acq: 12 Mar 2019 16:56

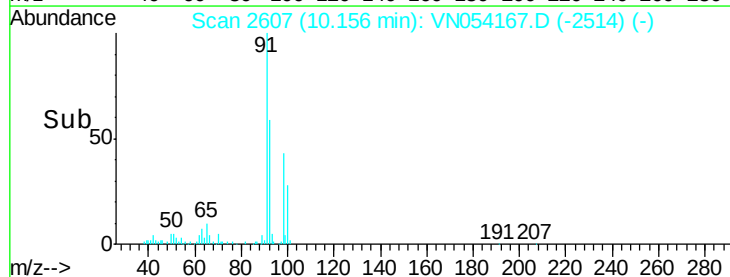
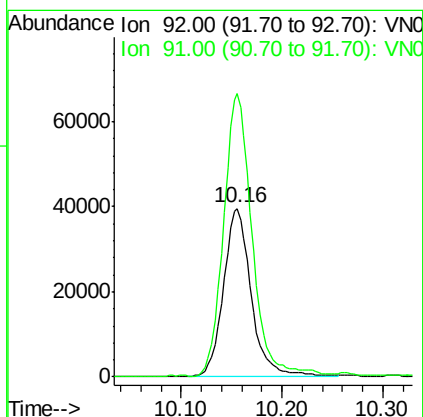
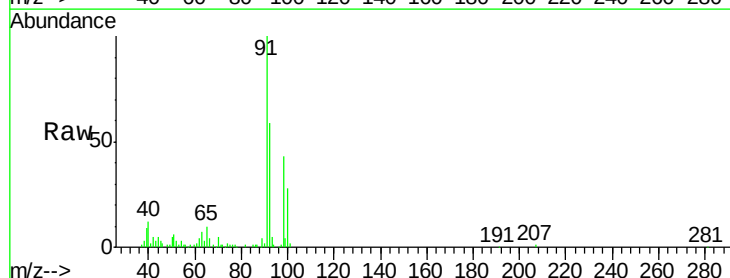
Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT1-2019

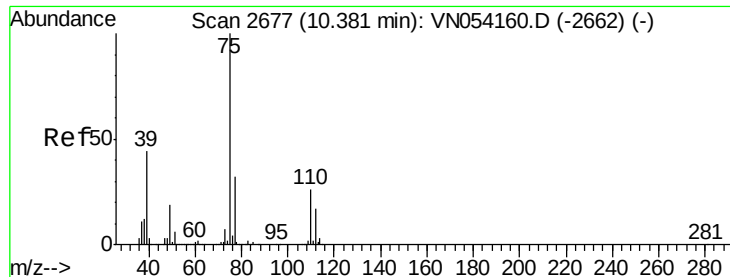
Tot Ion: 43 Resp: 100268
 Ion Ratio Lower Upper
 43 100
 58 41.8 31.8 47.6



#52
 Toluene
 Concen: 2.064 ug/l
 RT: 10.16 min Scan# 2607
 Delta R.T. 0.00 min
 Lab File: VN054167.D
 Acq: 12 Mar 2019 16:56

Tgt Ion: 92 Resp: 76860
 Ion Ratio Lower Upper
 92 100
 91 168.1 140.7 211.1





#53

t-1,3-Dichloropropene

Concen: 3.425 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Instrument :

MSVOA_N

ClientSampleId :

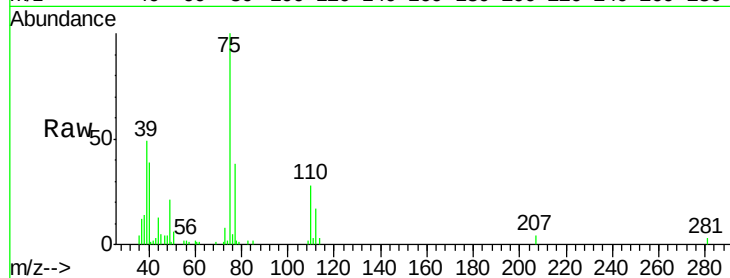
LOQ-WATER-02-QT1-2019

Tot Ion: 75 Resp: 33846

Ion Ratio Lower Upper

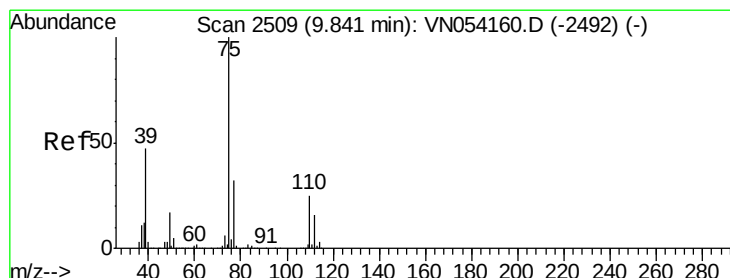
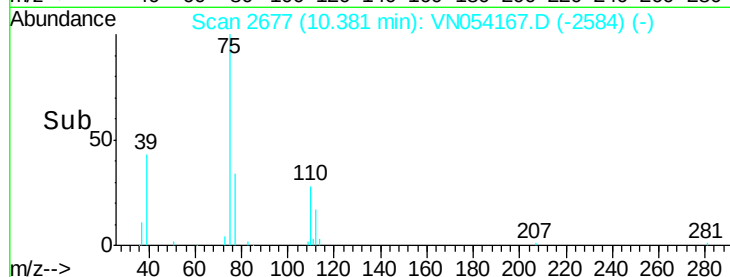
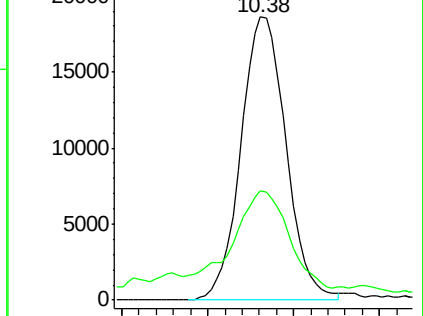
75 100

77 33.9 25.8 38.8



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: 1.815 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

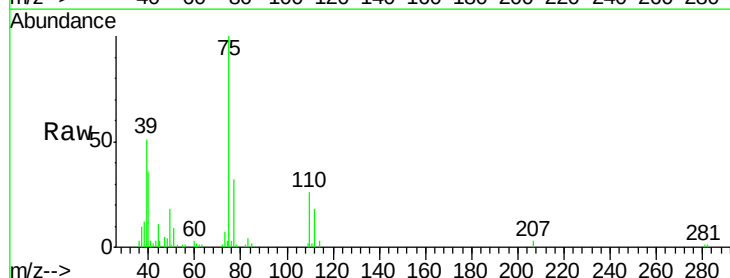
Tgt Ion: 75 Resp: 41762

Ion Ratio Lower Upper

75 100

77 32.3 25.4 38.0

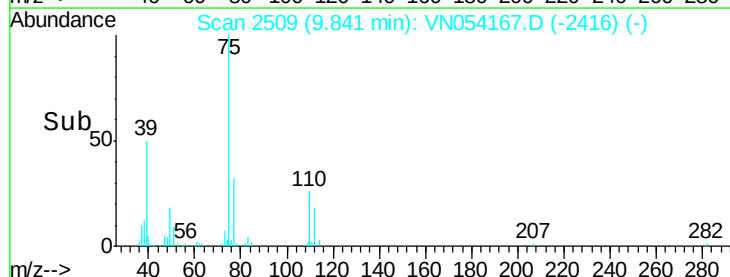
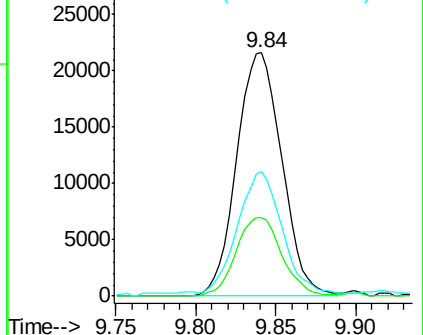
39 49.8 37.2 55.8

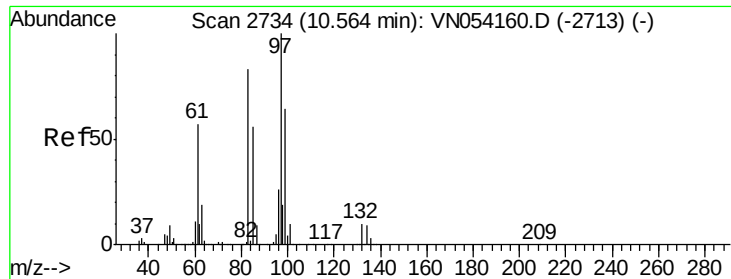


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

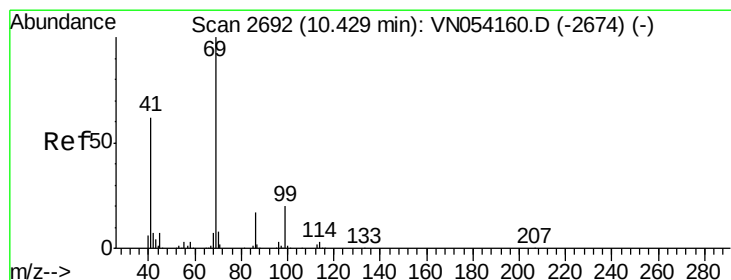
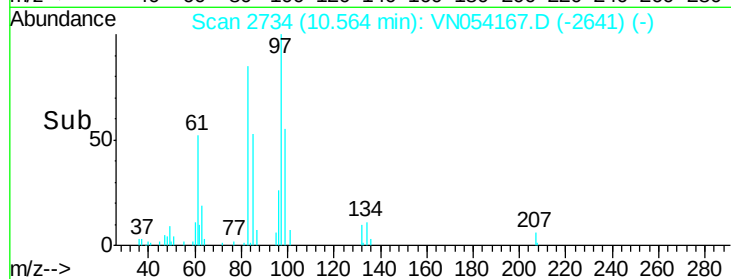
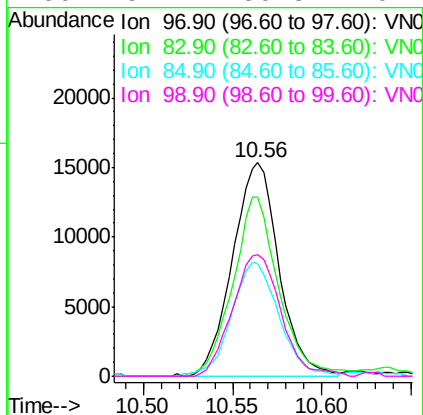
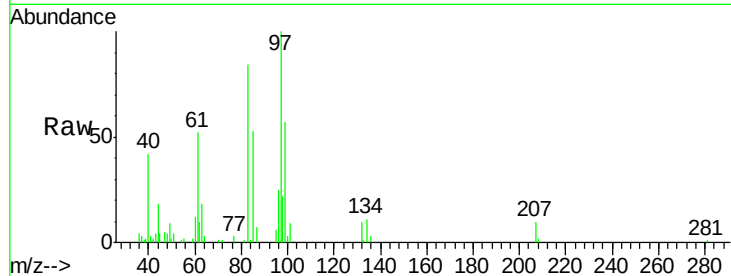




#55
 1,1,2-Trichloroethane
 Concen: 2.041 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN054167.D
 Acq: 12 Mar 2019 16:56

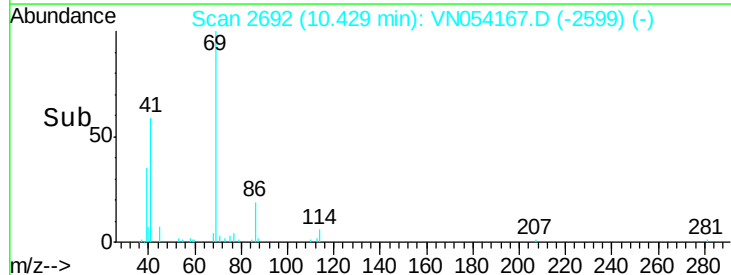
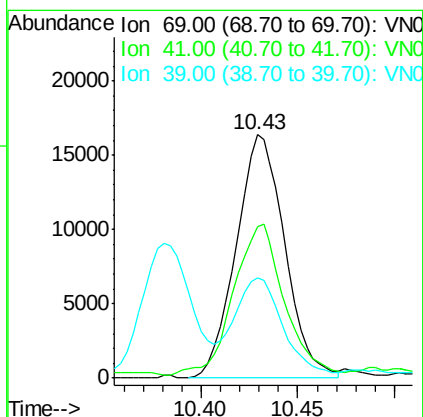
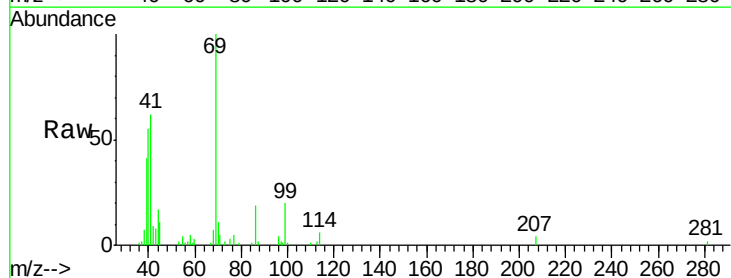
Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT1-2019

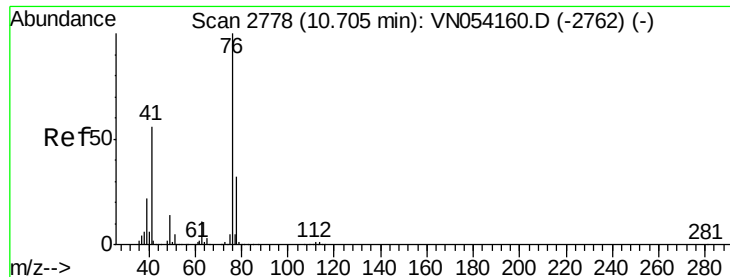
Tot Ion:	97	Resp:	27740
Ion	Ratio	Lower	Upper
97	100		
83	82.6	66.6	100.0
85	51.3	44.4	66.6
99	57.1	50.8	76.2



#56
 Ethyl methacrylate
 Concen: 1.771 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN054167.D
 Acq: 12 Mar 2019 16:56

Tgt Ion:	69	Resp:	28710
Ion	Ratio	Lower	Upper
69	100		
41	64.3	49.4	74.2
39	38.4	28.3	42.5





#57

1,3-Dichloropropane

Concen: 2.012 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Instrument :

MSVOA_N

ClientSampleId :

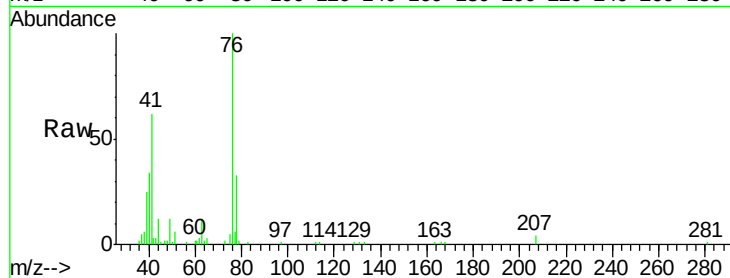
LOQ-WATER-02-QT1-2019

Tot Ion: 76 Resp: 44721

Ion Ratio Lower Upper

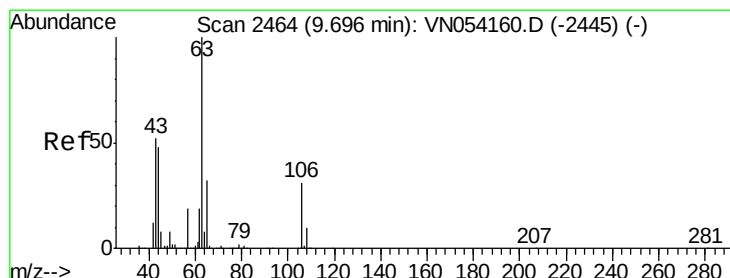
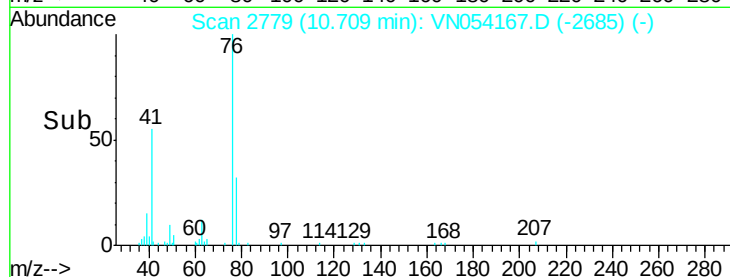
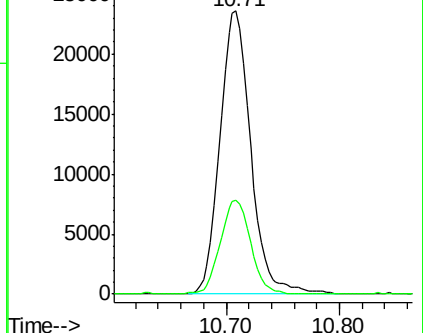
76 100

78 32.7 25.7 38.5



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: 23.936 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN054167.D

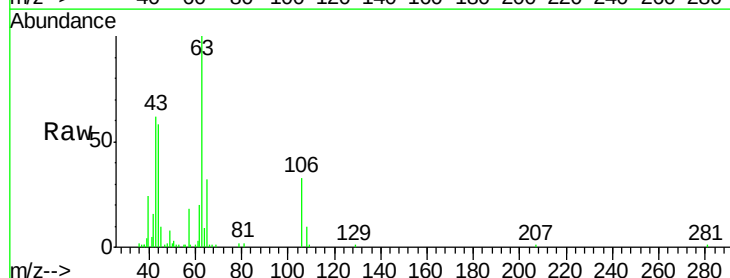
Acq: 12 Mar 2019 16:56

Tgt Ion: 63 Resp: 53595

Ion Ratio Lower Upper

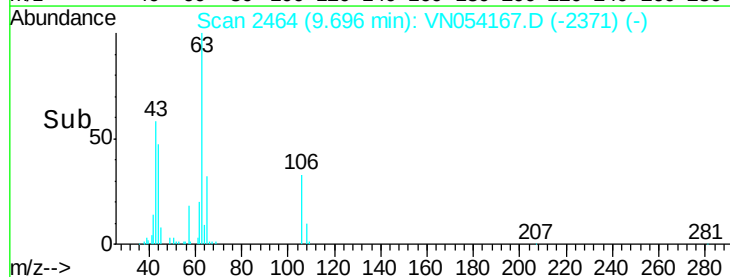
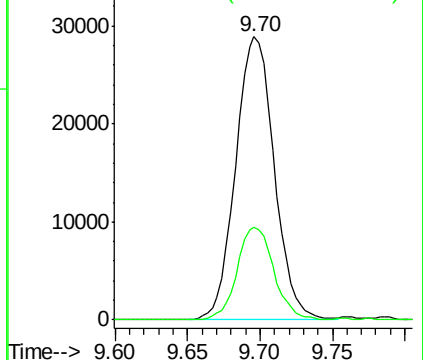
63 100

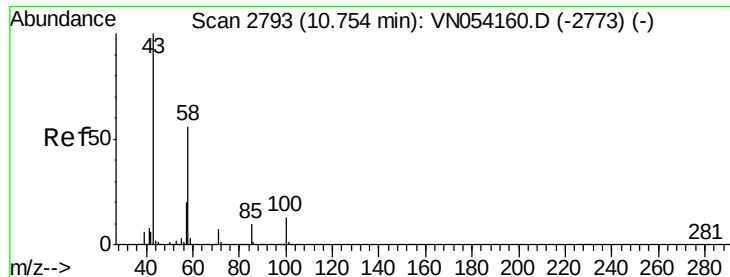
106 31.0 24.4 36.6



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

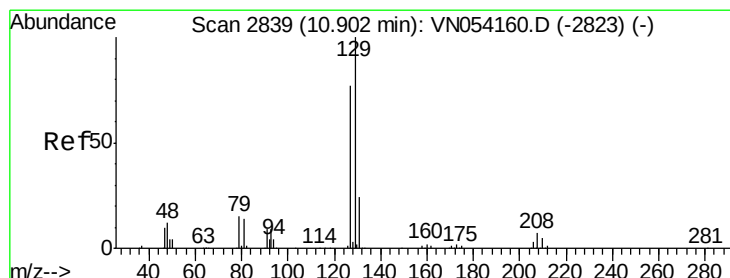
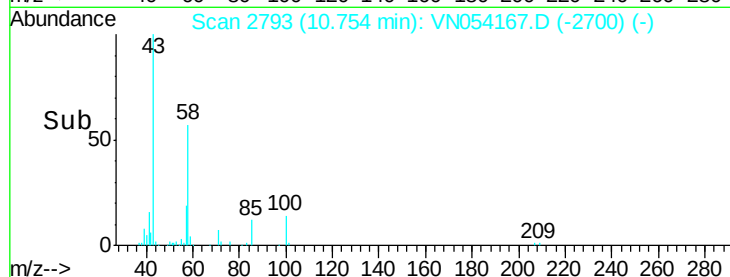
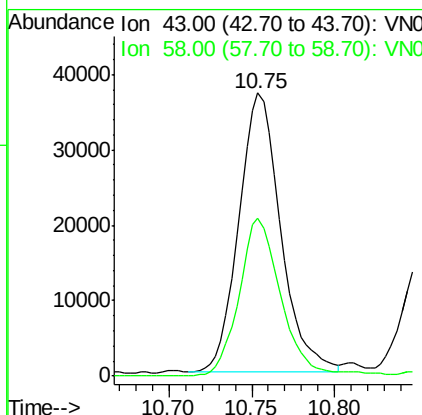
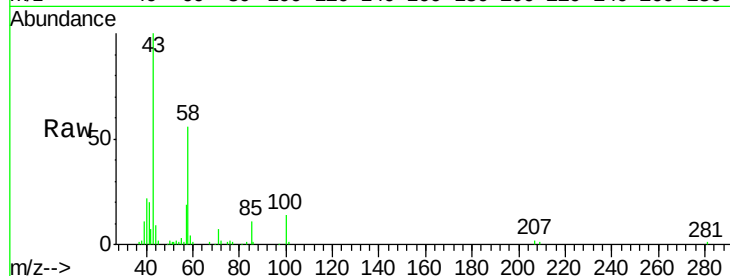




#59
2-Hexanone
Concen: 8.876 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN054167.D
Acq: 12 Mar 2019 16:56

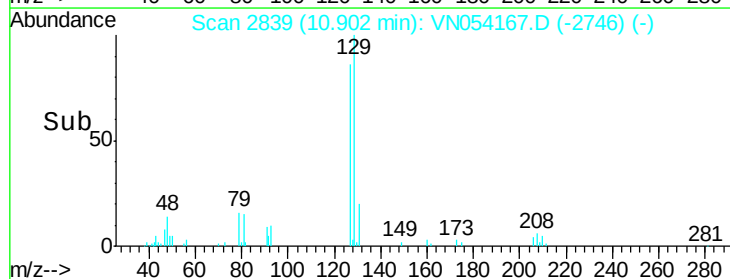
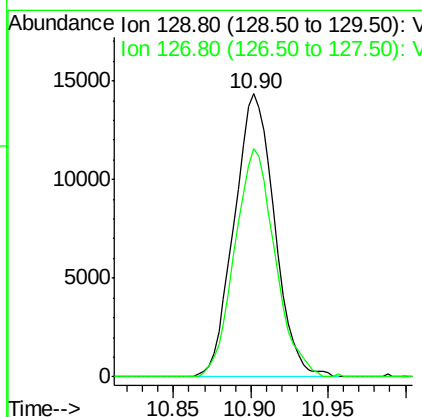
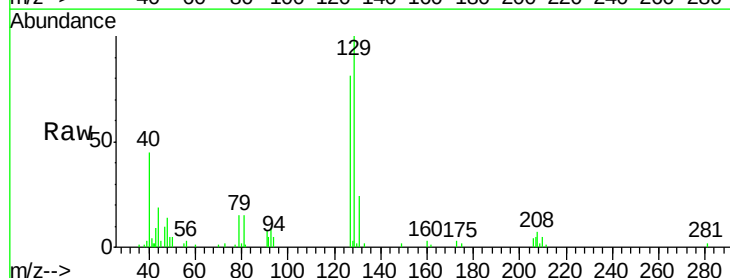
Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT1-2019

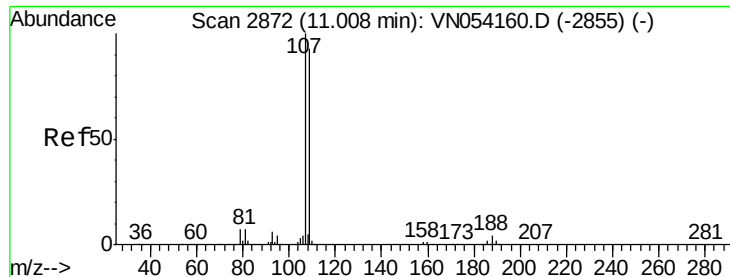
Tot Ion: 43 Resp: 64677
Ion Ratio Lower Upper
43 100
58 57.2 28.0 83.9



#60
Dibromochloromethane
Concen: 1.700 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN054167.D
Acq: 12 Mar 2019 16:56

Tgt Ion: 129 Resp: 26012
Ion Ratio Lower Upper
129 100
127 80.4 38.6 115.8





#61

1,2-Dibromoethane

Concen: 1.977 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. -0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Instrument :

MSVOA_N

ClientSampleId :

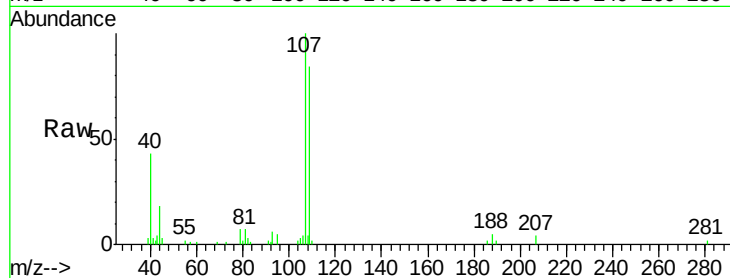
LOQ-WATER-02-QT1-2019

Tot Ion:107 Resp: 27309

Ion Ratio Lower Upper

107 100

109 90.0 75.9 113.9



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.00

15000

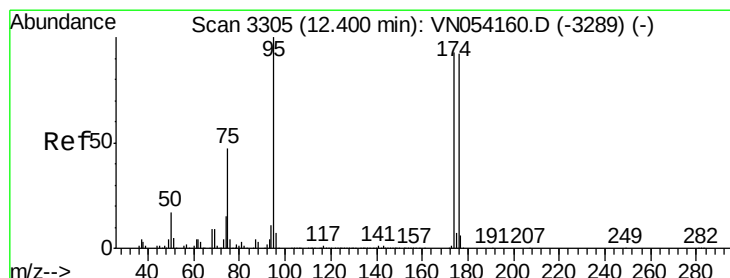
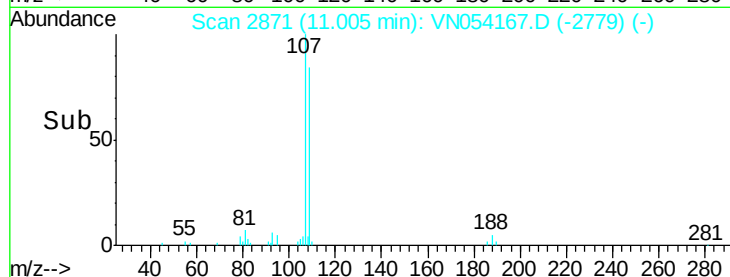
10000

5000

0

Time-->

10.95 11.00 11.05 11.10



#62

4-Bromofluorobenzene

Concen: 45.383 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

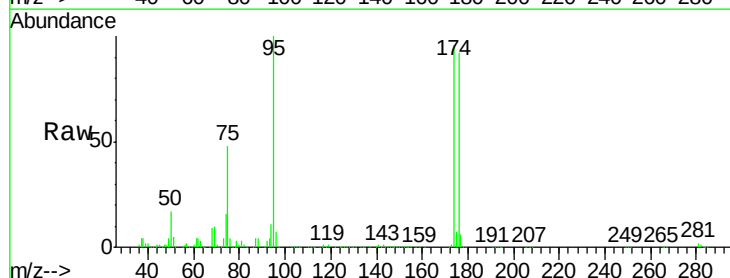
Tgt Ion: 95 Resp: 842748

Ion Ratio Lower Upper

95 100

174 96.7 0.0 191.0

176 94.4 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

600000

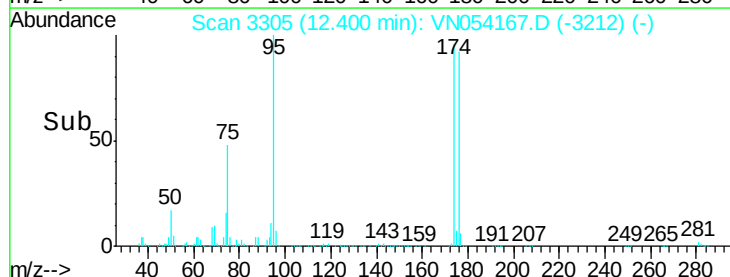
400000

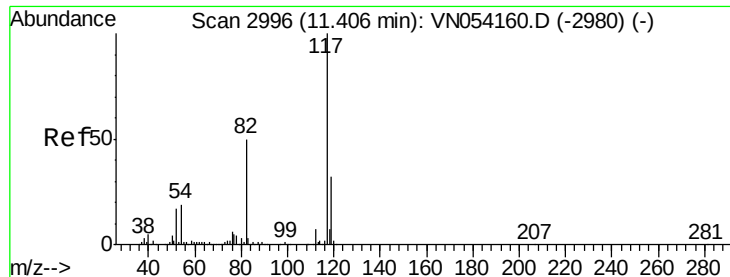
200000

0

Time-->

12.30 12.40 12.50





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT1-2019

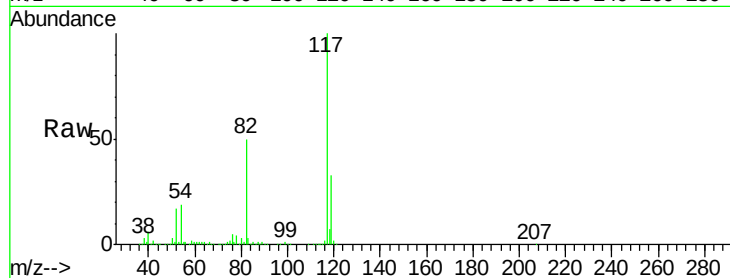
Tot Ion:117 Resp: 1928417

Ion Ratio Lower Upper

117 100

82 50.2 40.0 60.0

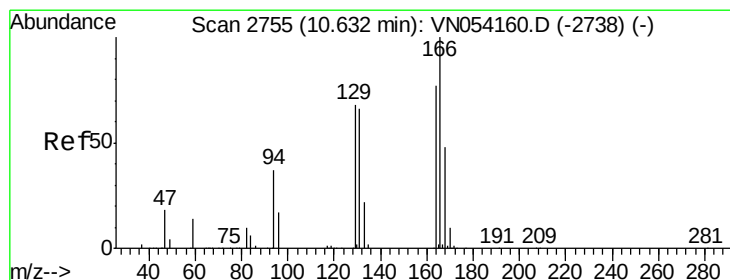
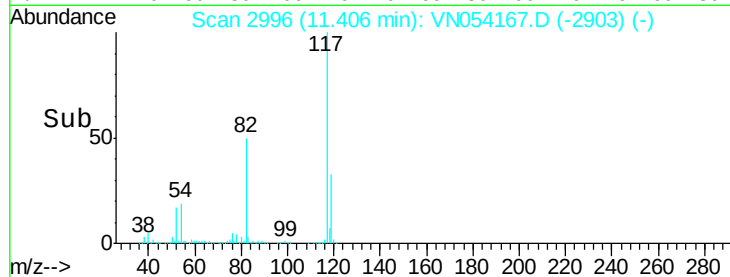
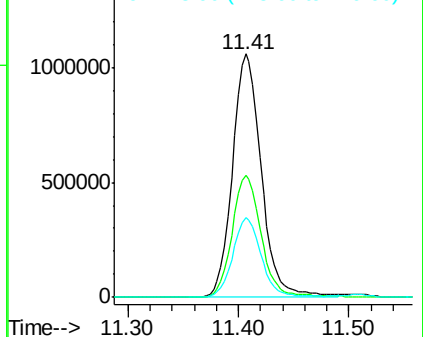
119 32.6 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 2.091 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Tgt Ion:164 Resp: 38981

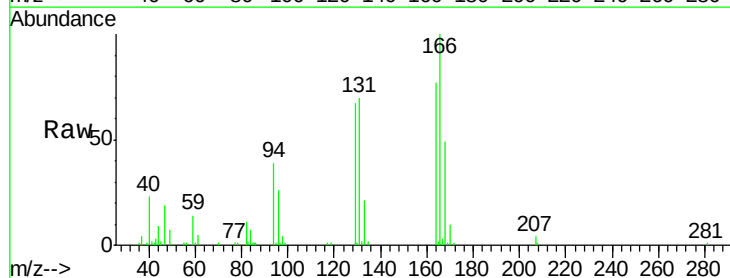
Ion Ratio Lower Upper

164 100

166 130.6 103.9 155.9

129 88.1 71.1 106.7

131 91.6 68.2 102.4

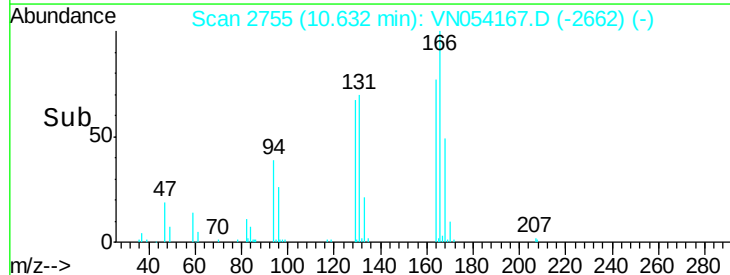
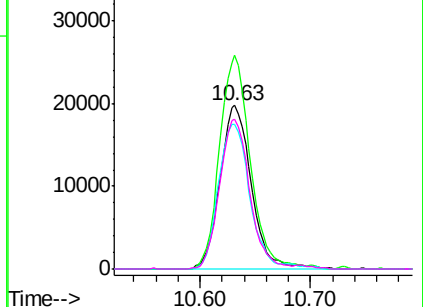


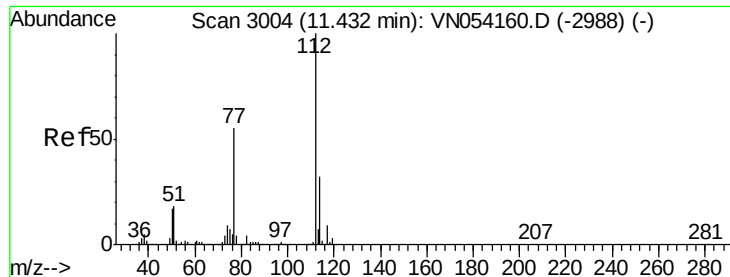
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 2.048 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Instrument :

MSVOA_N

ClientSampleId :

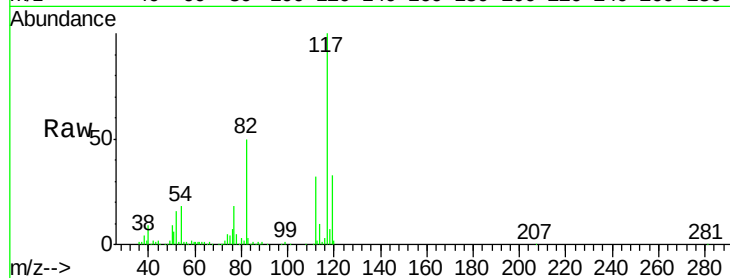
LOQ-WATER-02-QT1-2019

Tot Ion:112 Resp: 86703

Ion Ratio Lower Upper

112 100

114 32.1 25.9 38.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.43

50000

40000

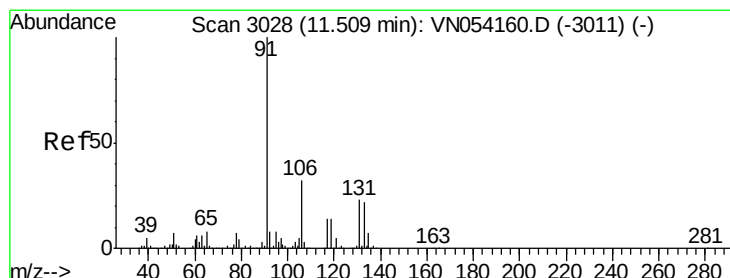
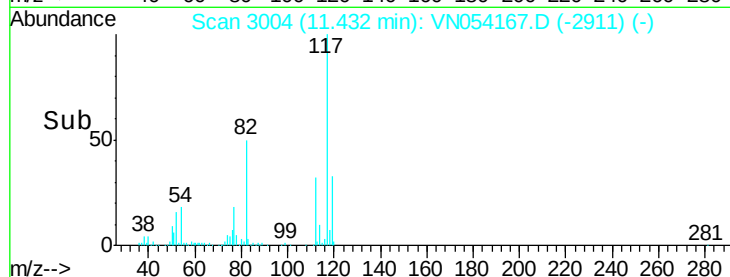
30000

20000

10000

0

Time--> 11.35 11.40 11.45 11.50



#66

1,1,1,2-Tetrachloroethane

Concen: 1.852 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

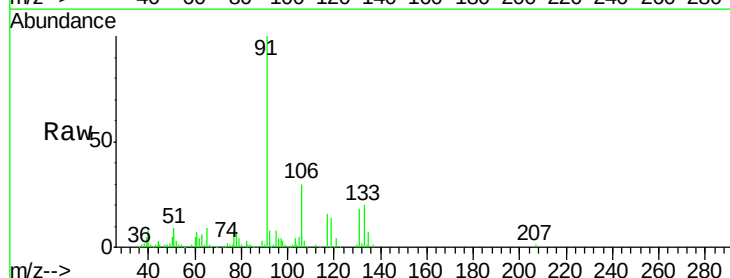
Tgt Ion:131 Resp: 28494

Ion Ratio Lower Upper

131 100

133 103.1 47.6 142.9

119 77.4 32.4 97.0



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

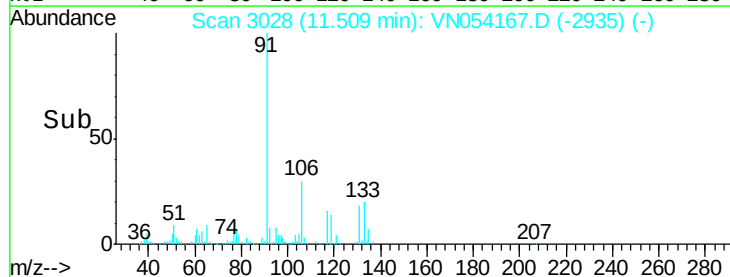
Ion 118.80 (118.50 to 119.50): V

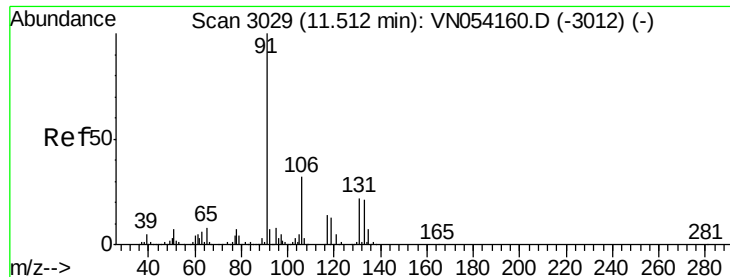
100000

50000

0

Time--> 11.45 11.50 11.55





#67

Ethyl Benzene

Concen: 2.016 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Instrument :

MSVOA_N

ClientSampleId :

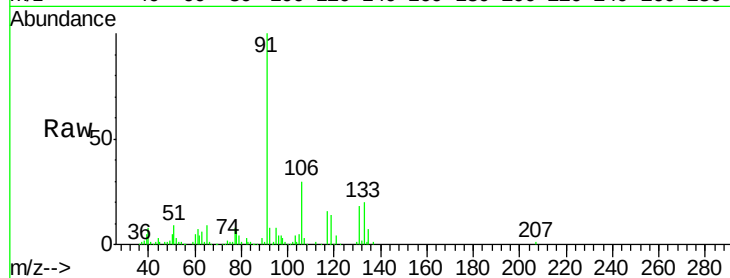
LOQ-WATER-02-QT1-2019

Tot Ion: 91 Resp: 141494

Ion Ratio Lower Upper

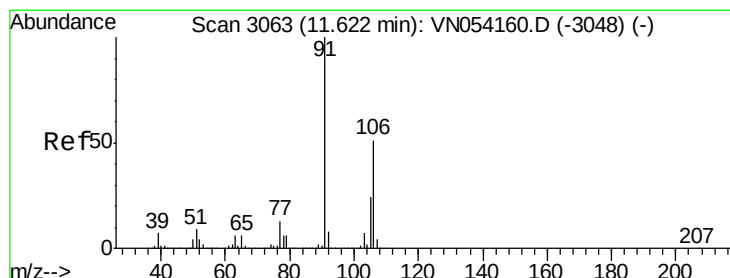
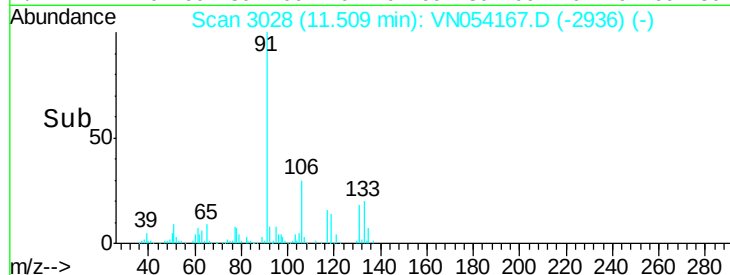
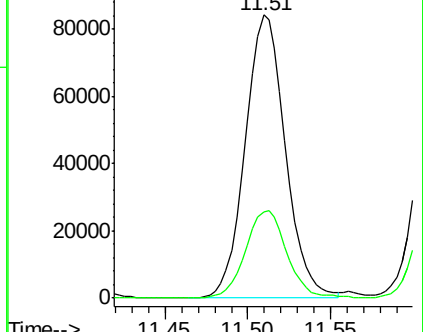
91 100

106 30.5 25.5 38.3



Abundance Ion 91.00 (90.70 to 91.70): VN054167.D (-2936) (-)

Ion 106.00 (105.70 to 106.70): VN054167.D (-2936) (-)



#68

m/p-Xylenes

Concen: 3.996 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN054167.D

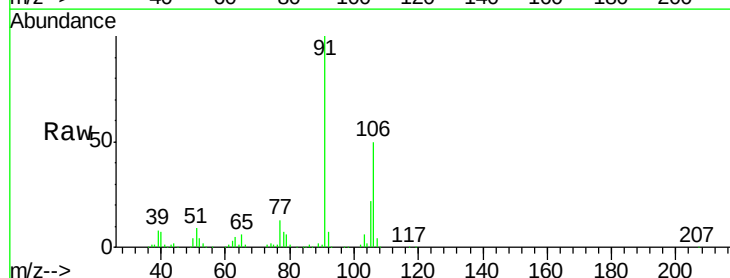
Acq: 12 Mar 2019 16:56

Tgt Ion: 106 Resp: 109624

Ion Ratio Lower Upper

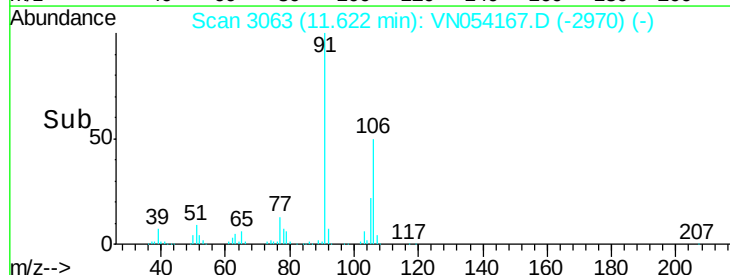
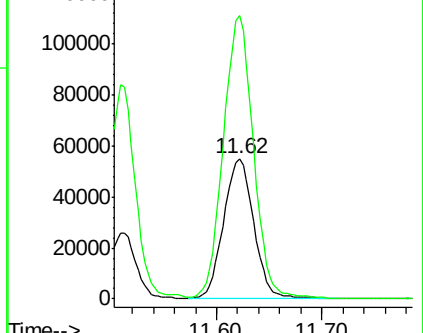
106 100

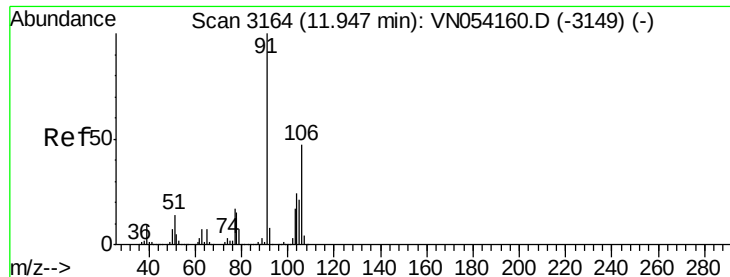
91 199.5 159.4 239.2



Abundance Ion 106.00 (105.70 to 106.70): VN054167.D (-2970) (-)

Ion 91.00 (90.70 to 91.70): VN054167.D (-2970) (-)

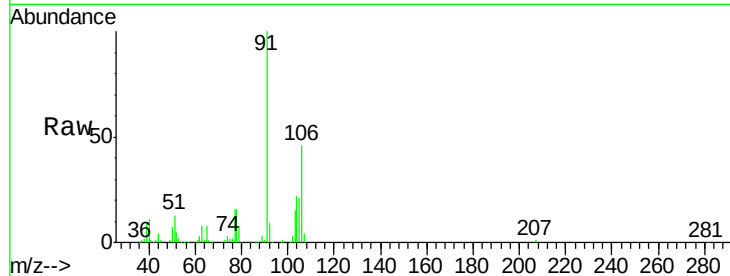




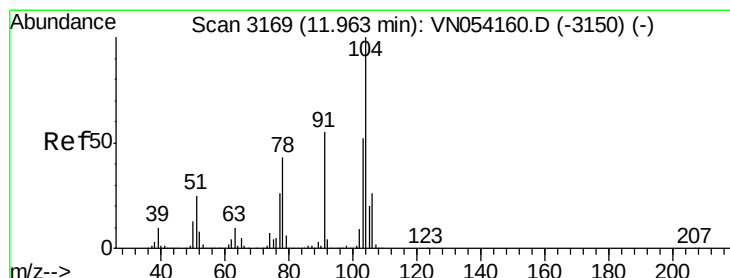
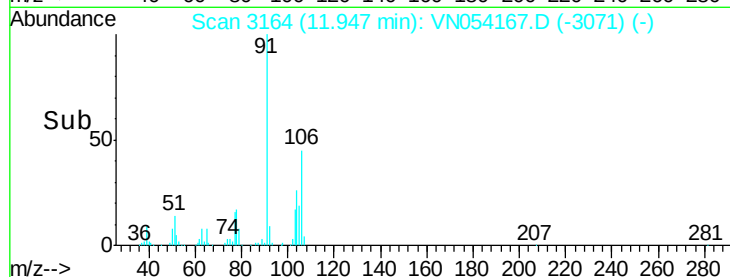
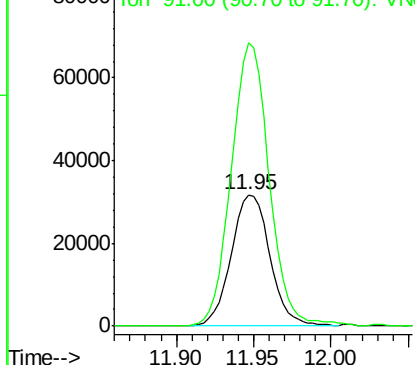
#69
o-Xylene
Concen: 2.067 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN054167.D
Acq: 12 Mar 2019 16:56

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT1-2019

Tot Ion:106 Resp: 55277
Ion Ratio Lower Upper
106 100
91 211.4 105.7 317.1

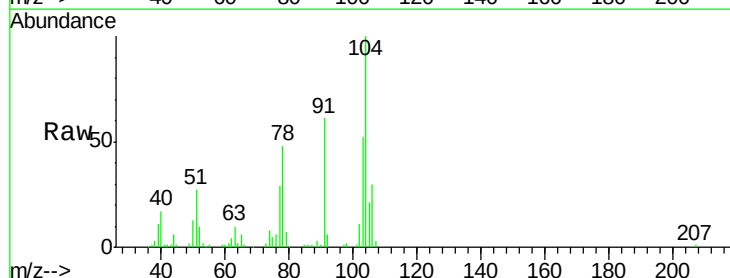


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

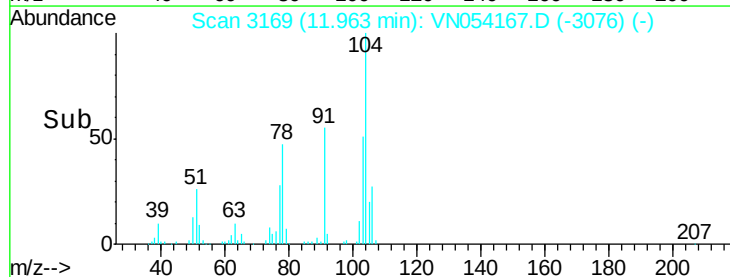
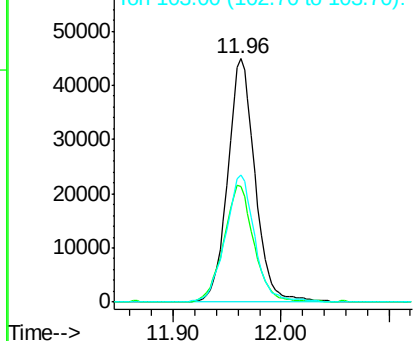


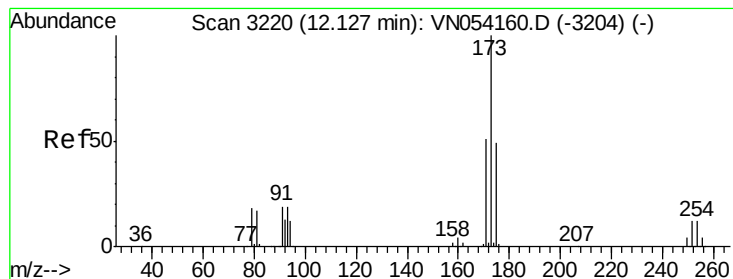
#70
Styrene
Concen: 1.889 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN054167.D
Acq: 12 Mar 2019 16:56

Tgt Ion:104 Resp: 79216
Ion Ratio Lower Upper
104 100
78 52.7 38.2 57.2
103 55.3 44.4 66.6



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 3.730 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT1-2019

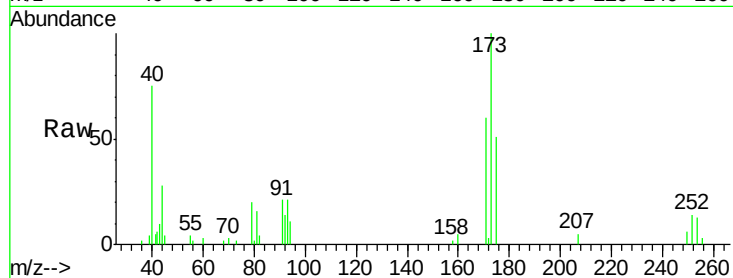
Tot Ion:173 Resp: 16976

Ion Ratio Lower Upper

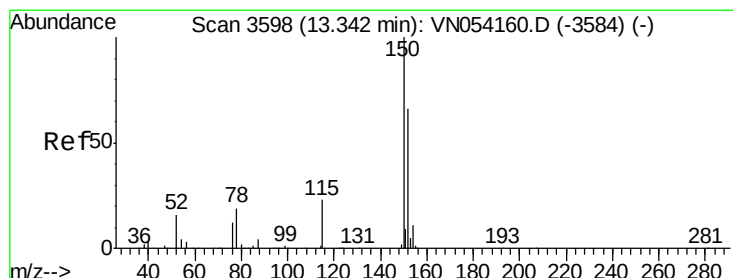
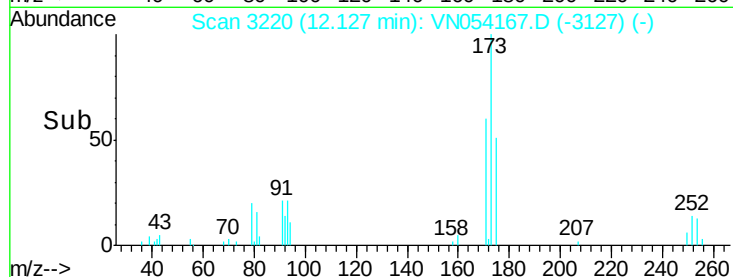
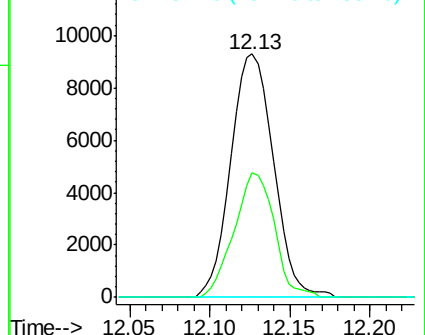
173 100

175 47.9 24.4 73.2

254 0.0 0.1 0.1#



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

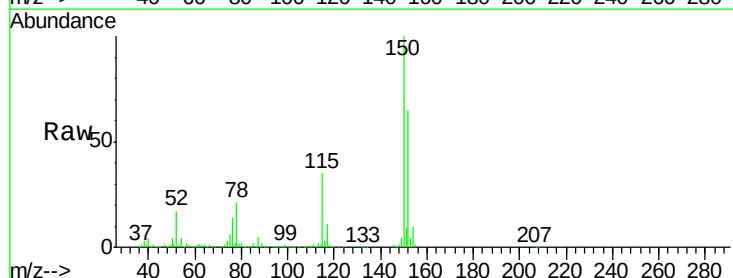
Tgt Ion:152 Resp: 769705

Ion Ratio Lower Upper

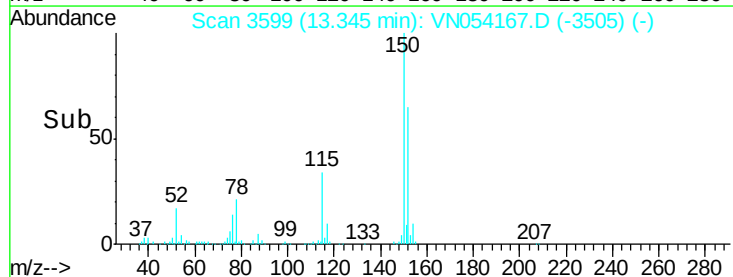
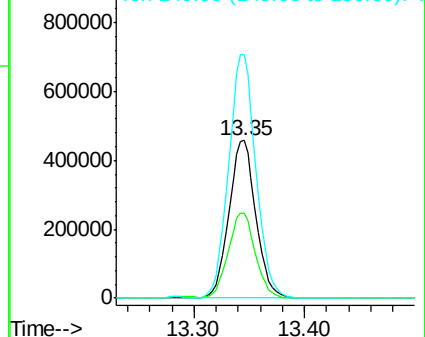
152 100

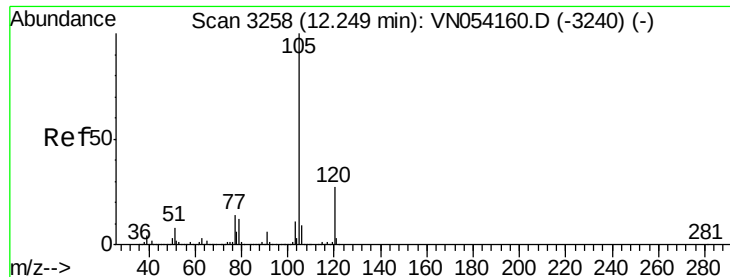
115 54.5 27.2 81.6

150 156.5 0.0 349.2



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





#73

Isopropylbenzene

Concen: 2.424 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Instrument :

MSVOA_N

ClientSampleId :

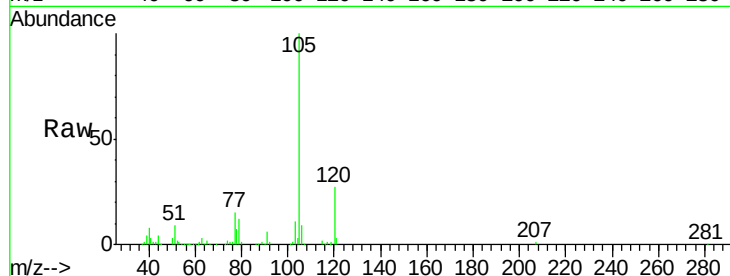
LOQ-WATER-02-QT1-2019

Tot Ion:105 Resp: 149248

Ion Ratio Lower Upper

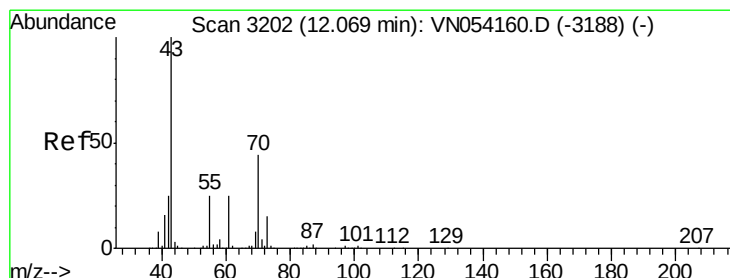
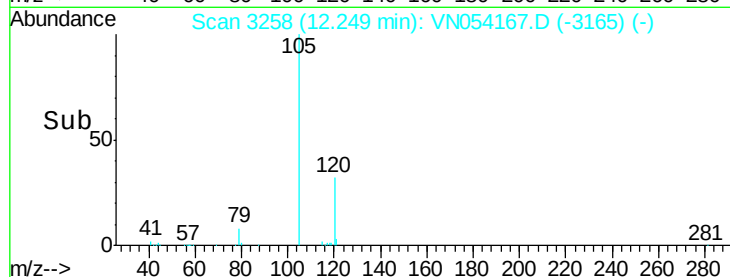
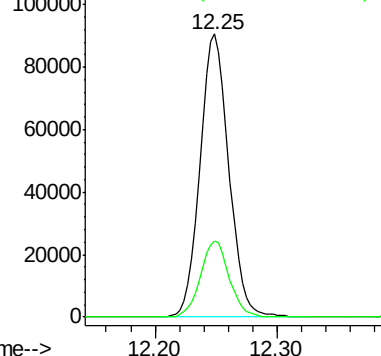
105 100

120 26.9 13.8 41.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 1.873 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Tgt Ion: 43 Resp: 25599

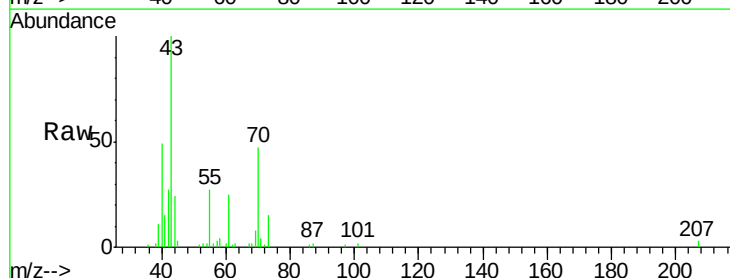
Ion Ratio Lower Upper

43 100

70 46.9 35.4 53.0

55 28.1 19.8 29.6

61 26.2 19.8 29.6

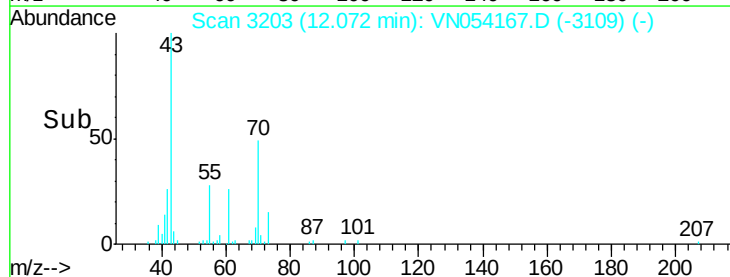
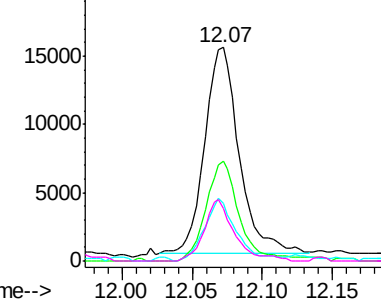


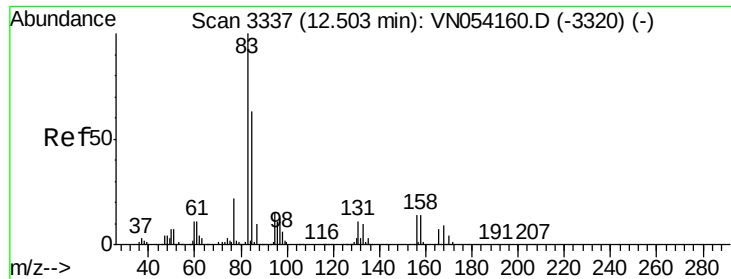
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 2.239 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT1-2019

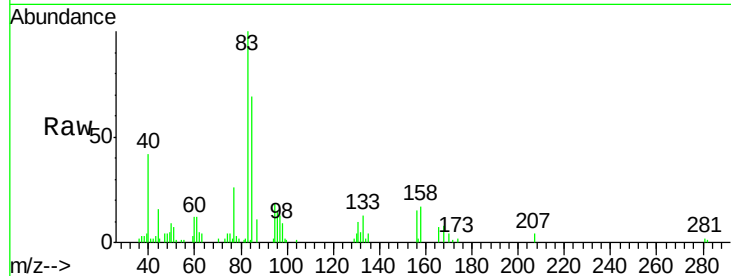
Tot Ion: 83 Resp: 29374

Ion Ratio Lower Upper

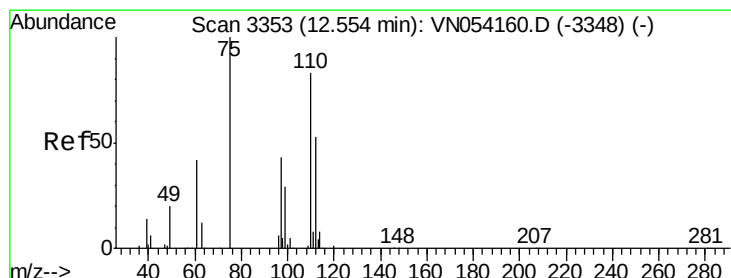
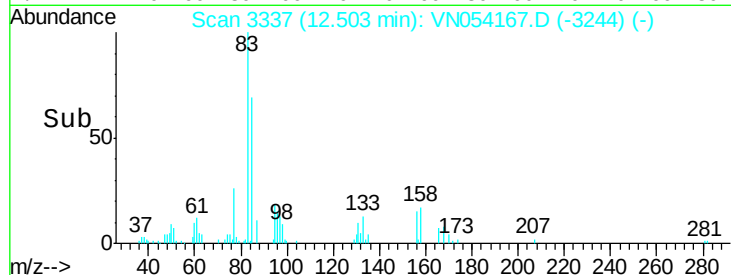
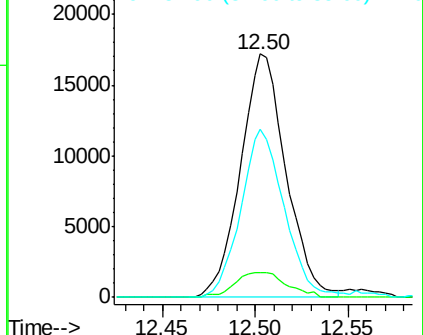
83 100

131 11.6 5.8 17.4

85 66.0 32.2 96.6



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



#76

1,2,3-Trichloropropane

Concen: 3.135 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN054167.D

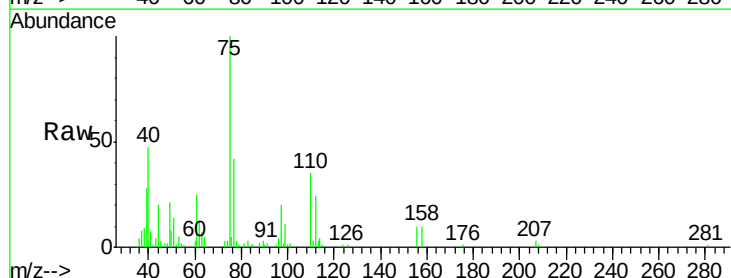
Acq: 12 Mar 2019 16:56

Tgt Ion: 75 Resp: 35487

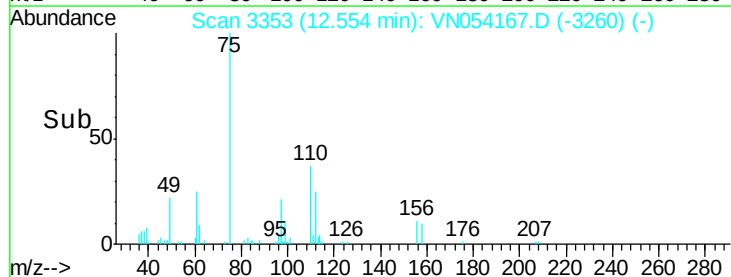
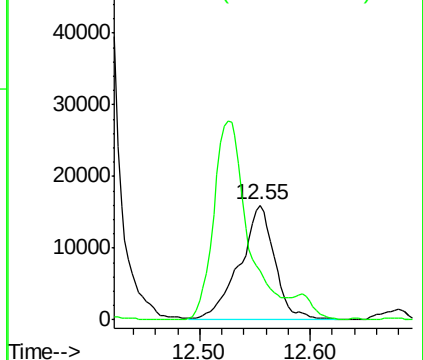
Ion Ratio Lower Upper

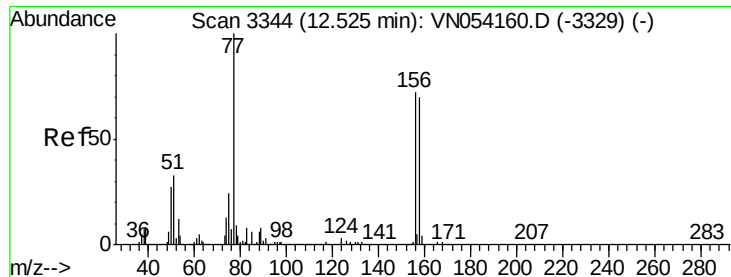
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO





#77

Bromobenzene

Concen: 2.244 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT1-2019

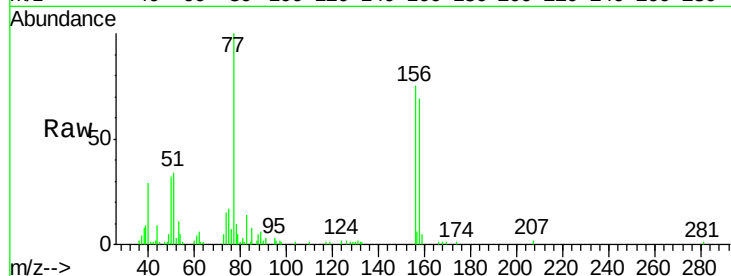
Tot Ion:156 Resp: 36566

Ion Ratio Lower Upper

156 100

77 164.7 81.5 244.4

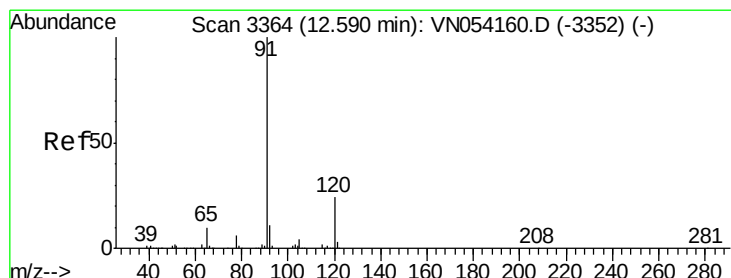
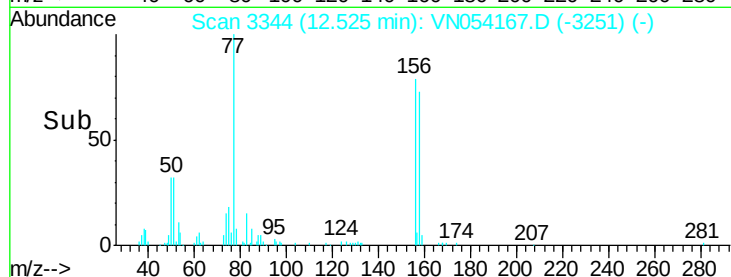
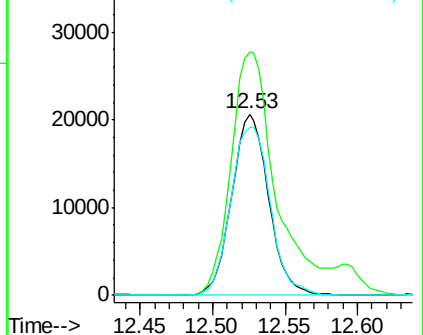
158 99.5 49.0 147.2



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VNO

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 2.231 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN054167.D

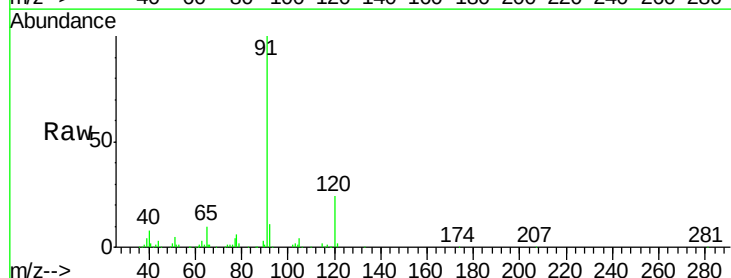
Acq: 12 Mar 2019 16:56

Tgt Ion: 91 Resp: 149044

Ion Ratio Lower Upper

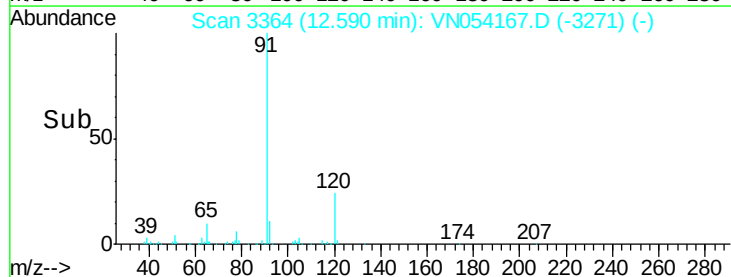
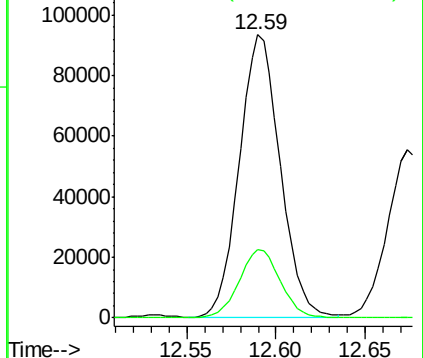
91 100

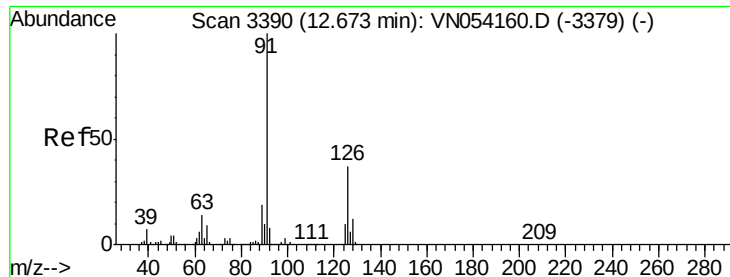
120 24.4 12.3 36.9



Abundance Ion 91.00 (90.70 to 91.70): VNO

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 2.333 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Instrument :

MSVOA_N

ClientSampleId :

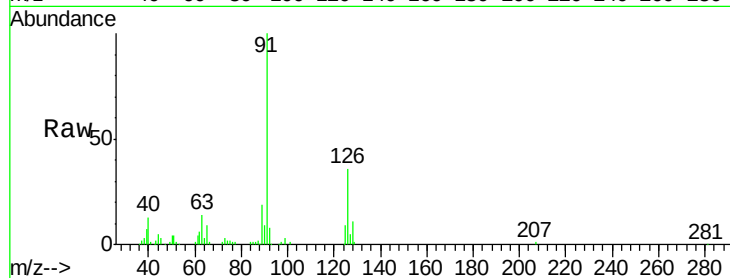
LOQ-WATER-02-QT1-2019

Tot Ion: 91 Resp: 93745

Ion Ratio Lower Upper

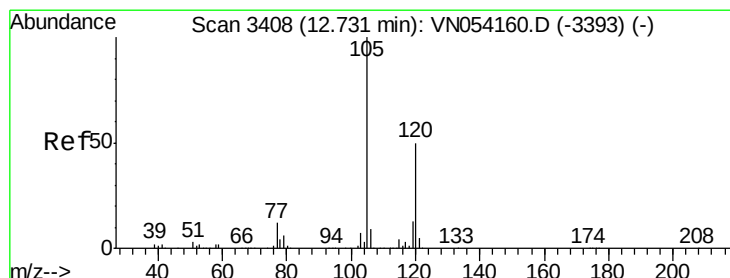
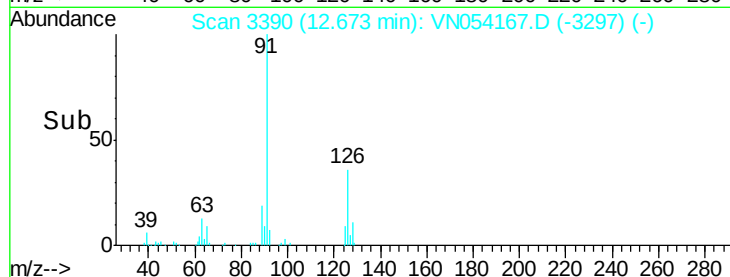
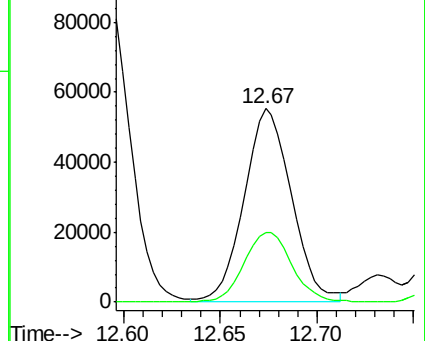
91 100

126 36.9 18.7 56.1



Abundance Ion 91.00 (90.70 to 91.70): VN054167.D (-3379) (-)

Ion 125.90 (125.60 to 126.60): VN054167.D (-3379) (-)



#80

1,3,5-Trimethylbenzene

Concen: 2.233 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN054167.D

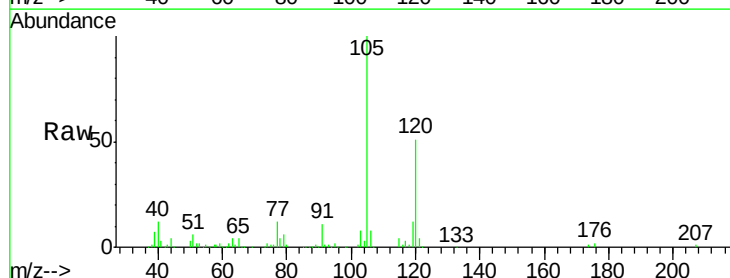
Acq: 12 Mar 2019 16:56

Tgt Ion: 105 Resp: 114380

Ion Ratio Lower Upper

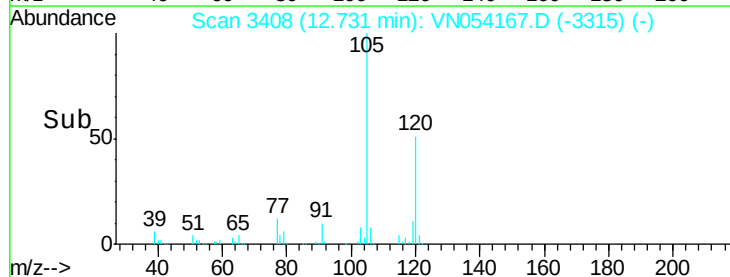
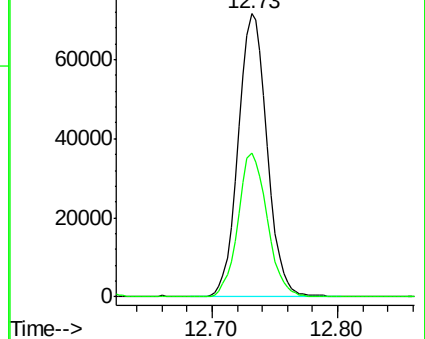
105 100

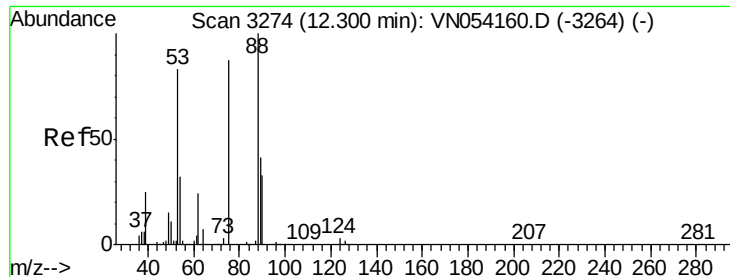
120 51.3 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): VN054167.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN054167.D (-3393) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 121.715 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT1-2019

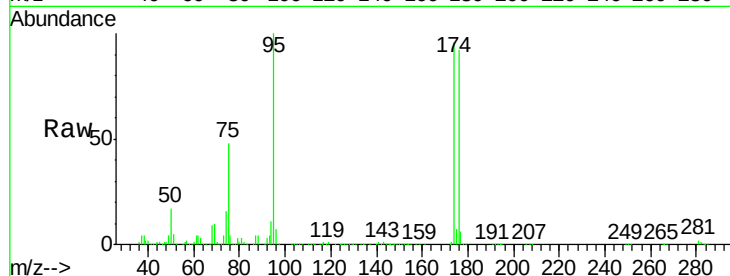
Tot Ion: 75 Resp: 403012

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

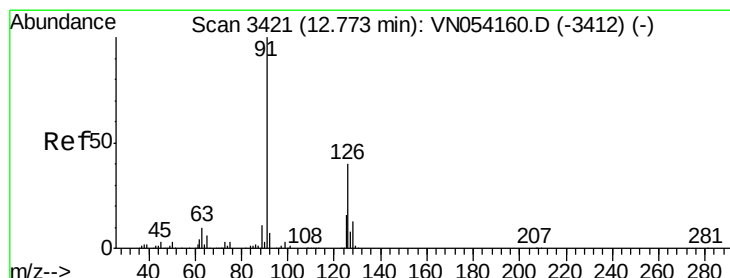
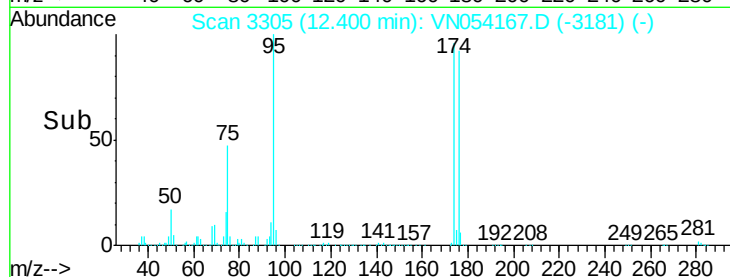
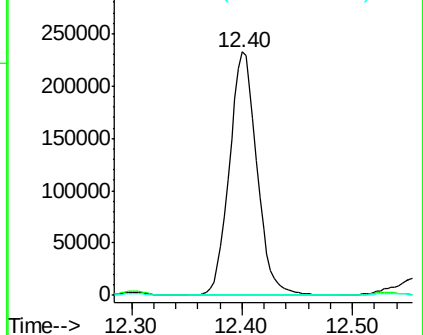
89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#82

4-Chlorotoluene

Concen: 2.115 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN054167.D

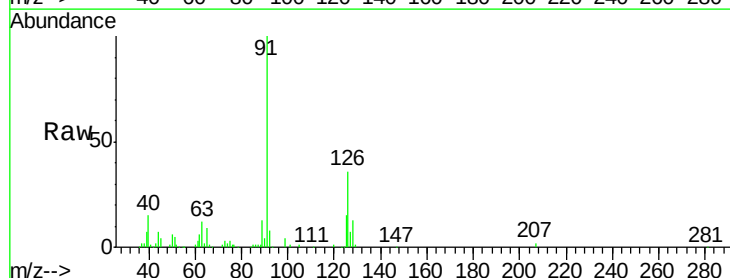
Acq: 12 Mar 2019 16:56

Tgt Ion: 91 Resp: 84864

Ion Ratio Lower Upper

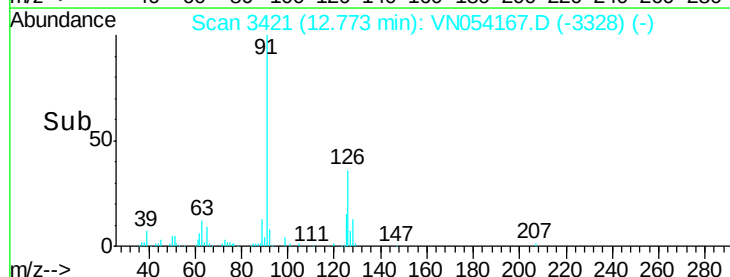
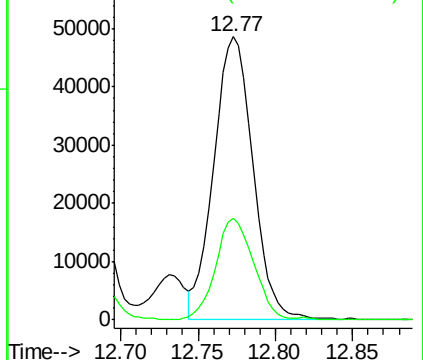
91 100

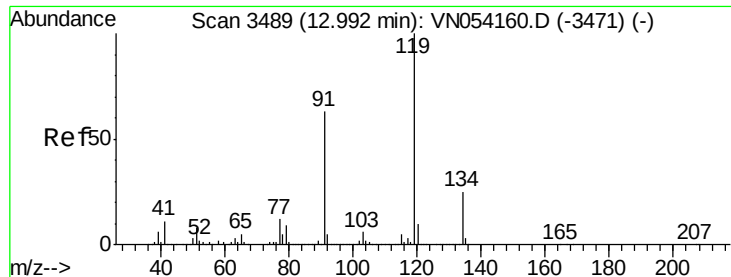
126 35.1 18.1 54.1



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

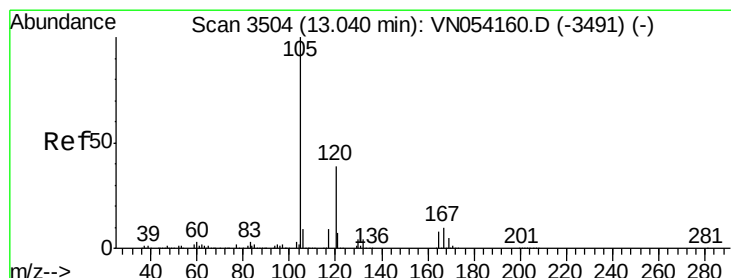
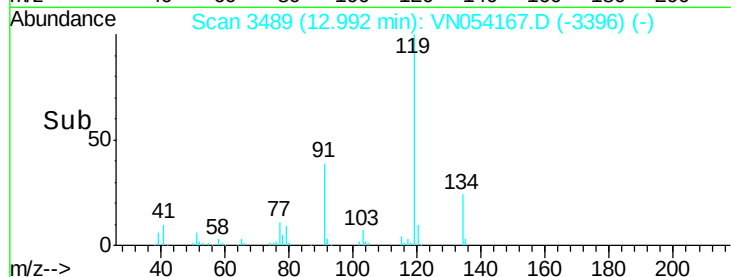
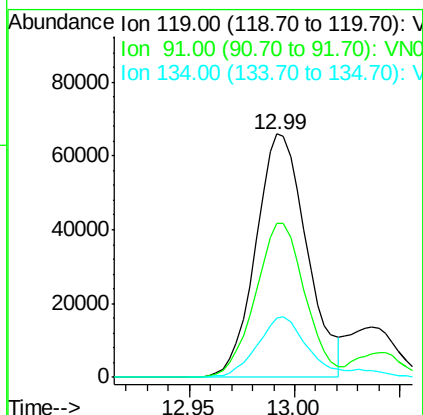
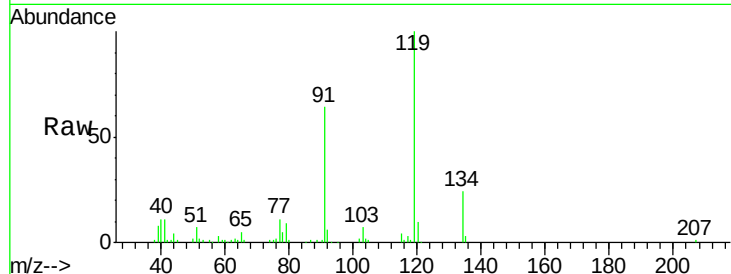




#83
 tert-Butylbenzene
 Concen: 2.354 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. 0.00 min
 Lab File: VN054167.D
 Acq: 12 Mar 2019 16:56

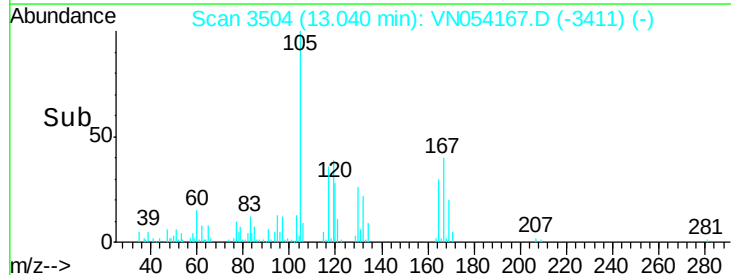
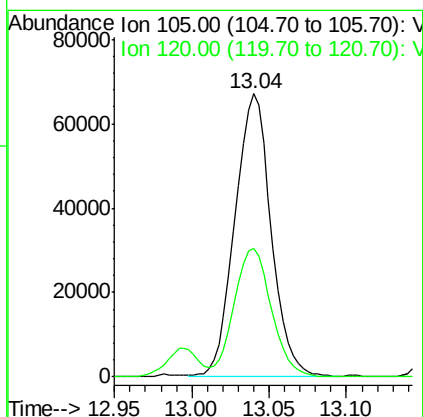
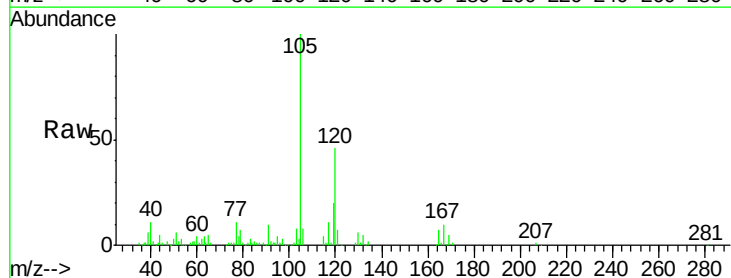
Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT1-2019

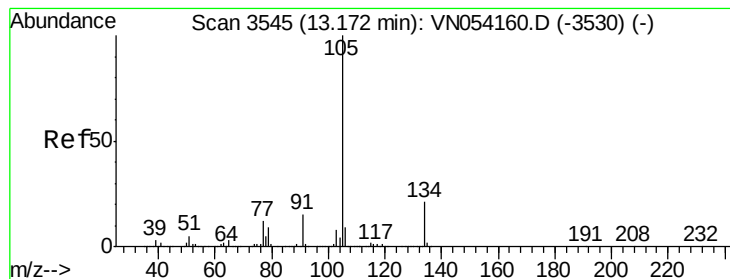
Tot Ion:119 Resp: 110983
 Ion Ratio Lower Upper
 119 100
 91 61.5 30.9 92.8
 134 24.3 13.2 39.6



#84
 1,2,4-Trimethylbenzene
 Concen: 2.150 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN054167.D
 Acq: 12 Mar 2019 16:56

Tgt Ion:105 Resp: 108018
 Ion Ratio Lower Upper
 105 100
 120 47.2 23.4 70.3





#85

sec-Butylbenzene

Concen: 2.300 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Instrument :

MSVOA_N

ClientSampleId :

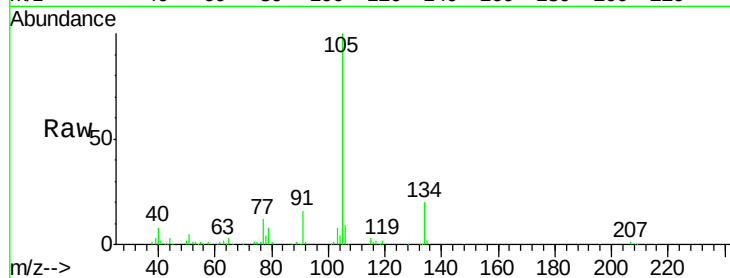
LOQ-WATER-02-QT1-2019

Tot Ion:105 Resp: 140620

Ion Ratio Lower Upper

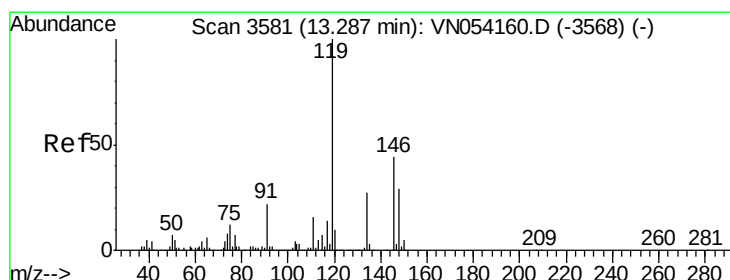
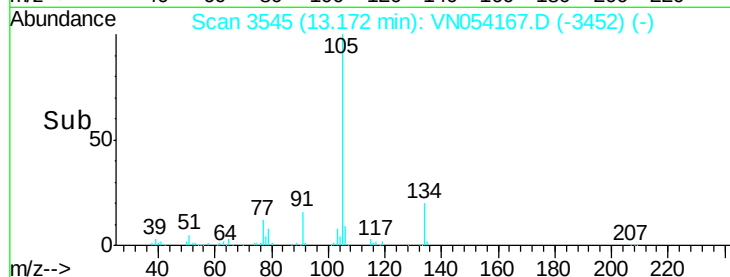
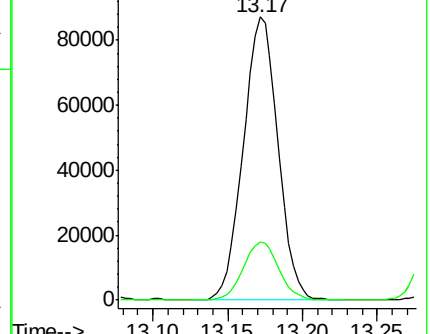
105 100

134 21.1 10.7 32.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 2.219 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

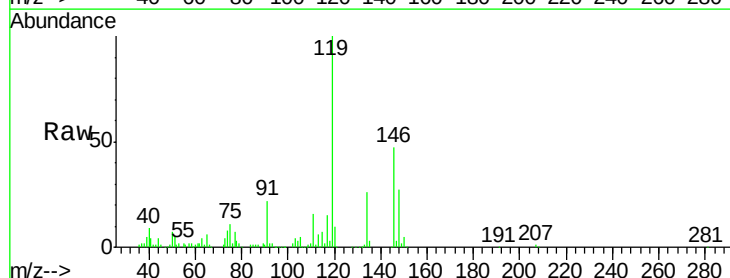
Tgt Ion:119 Resp: 119035

Ion Ratio Lower Upper

119 100

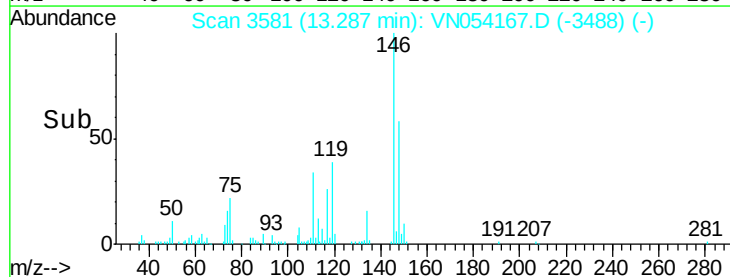
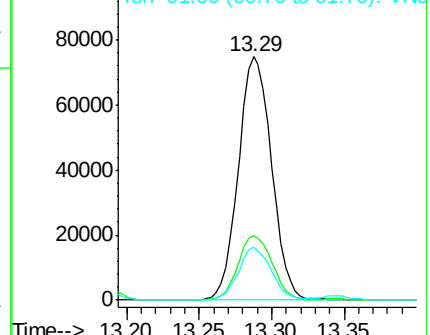
134 27.1 13.6 40.8

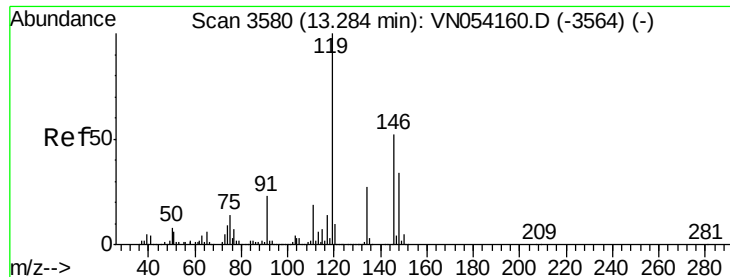
91 21.7 11.1 33.3



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V





#87

1,3-Dichlorobenzene

Concen: 2.277 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

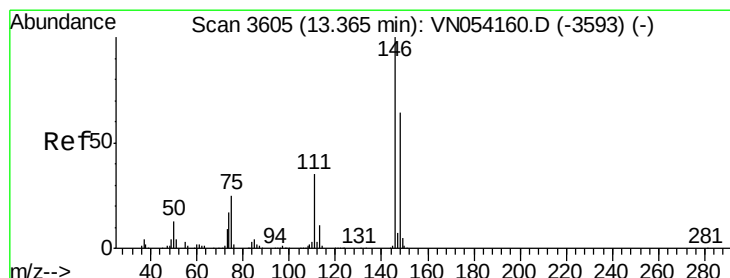
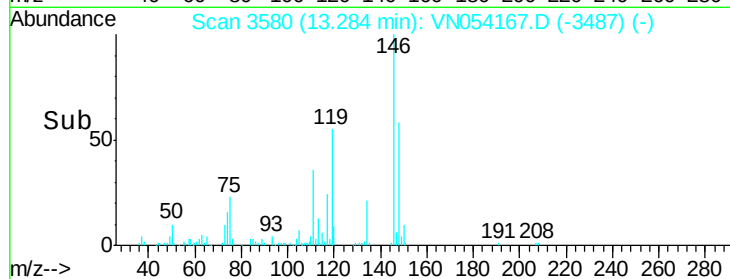
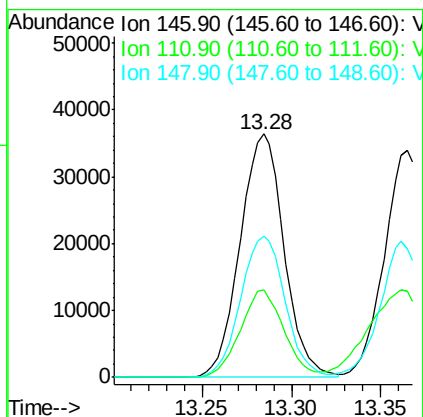
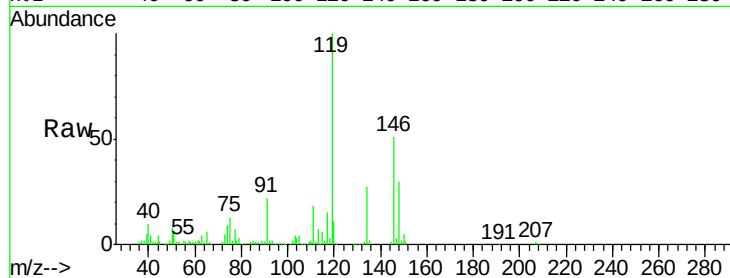
Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT1-2019

Tot Ion:146 Resp: 62515

Ion	Ratio	Lower	Upper
146	100		
111	35.7	18.8	56.3
148	58.7	32.2	96.6



#88

1,4-Dichlorobenzene

Concen: 2.121 ug/l

RT: 13.36 min Scan# 3605

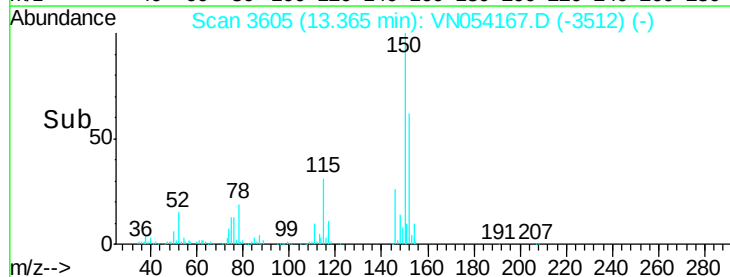
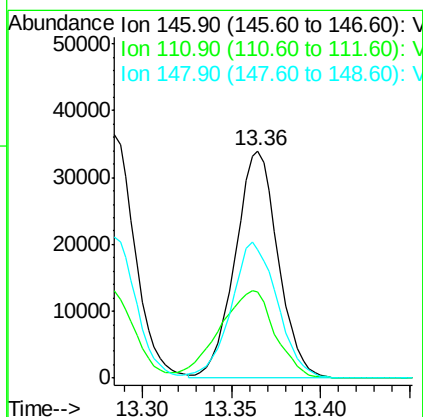
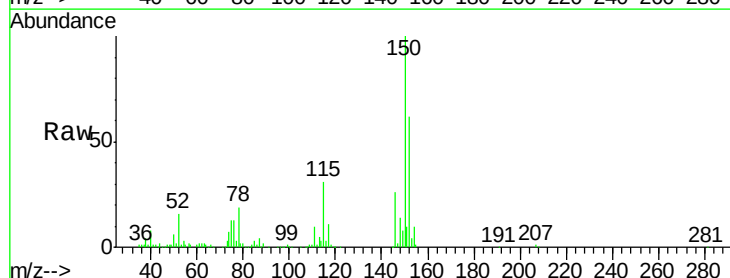
Delta R.T. 0.00 min

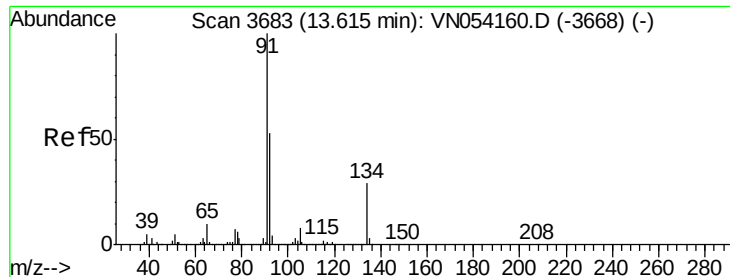
Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Tgt Ion:146 Resp: 57206

Ion	Ratio	Lower	Upper
146	100		
111	50.0	18.1	54.1
148	64.4	32.0	96.0





#89

n-Butylbenzene

Concen: 1.973 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT1-2019

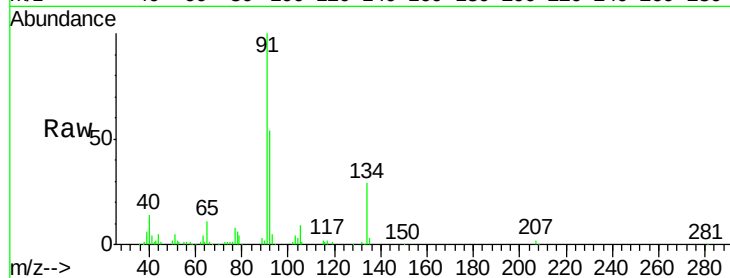
Tot Ion: 91 Resp: 80422

Ion Ratio Lower Upper

91 100

92 53.5 26.2 78.6

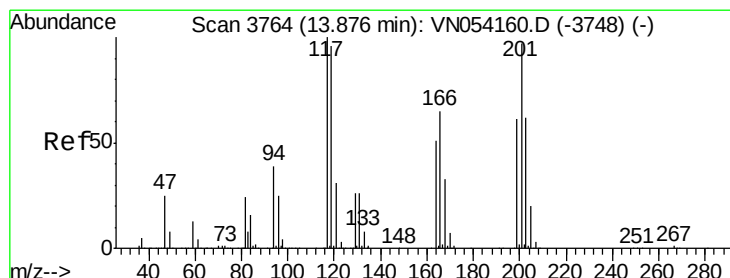
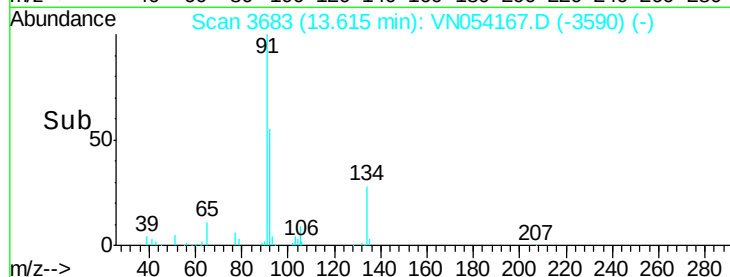
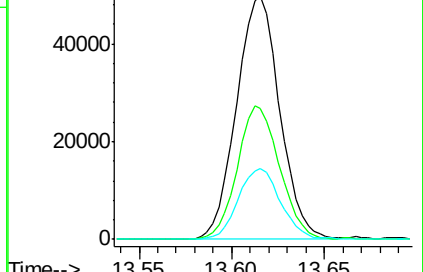
134 28.7 14.3 42.9



Abundance Ion 91.00 (90.70 to 91.70): VN054167.D (-3668) (-)

Ion 92.00 (91.70 to 92.70): VN054167.D (-3668) (-)

Ion 134.00 (133.70 to 134.70): VN054167.D (-3668) (-)



#90

Hexachloroethane

Concen: 1.872 ug/l

RT: 13.87 min Scan# 3763

Delta R.T. -0.00 min

Lab File: VN054167.D

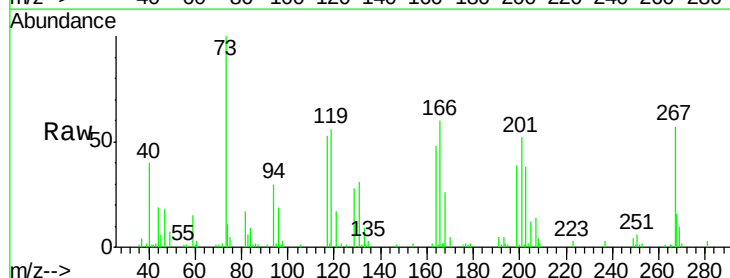
Acq: 12 Mar 2019 16:56

Tgt Ion: 117 Resp: 16626

Ion Ratio Lower Upper

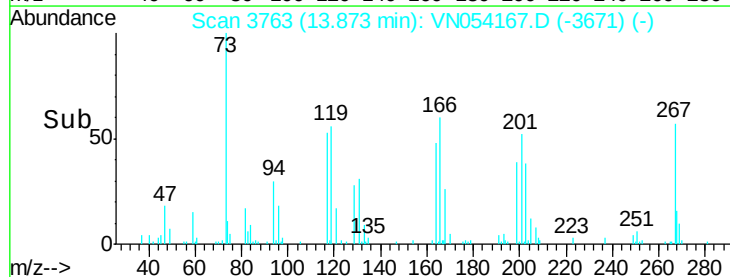
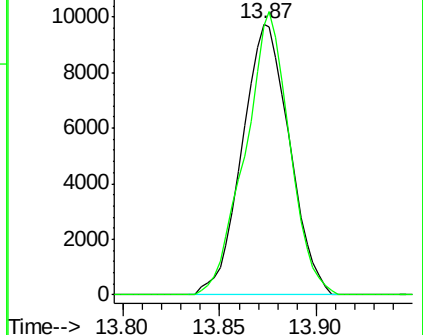
117 100

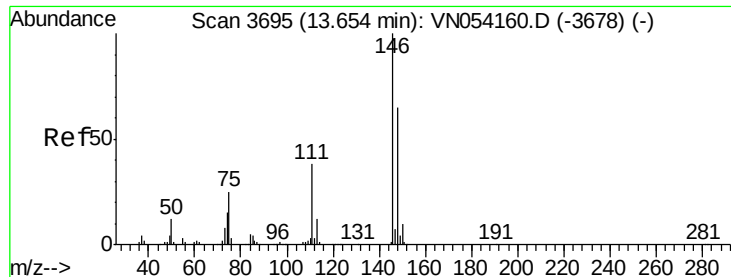
201 97.9 48.1 144.4



Abundance Ion 116.80 (116.50 to 117.50): VN054167.D (-3748) (-)

Ion 200.70 (200.40 to 201.40): VN054167.D (-3748) (-)

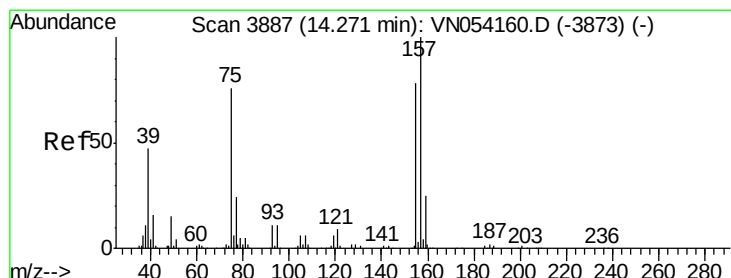
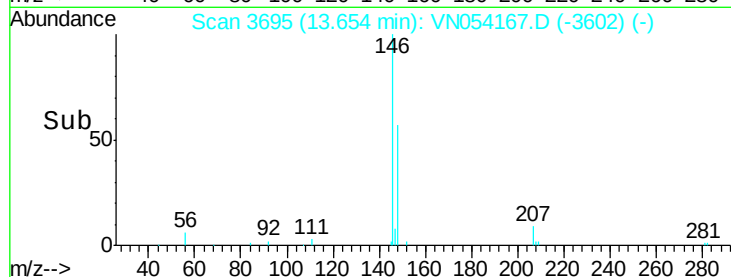
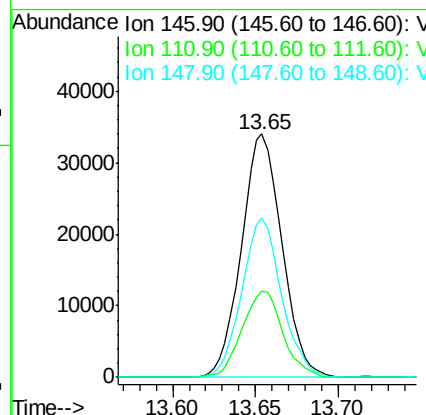
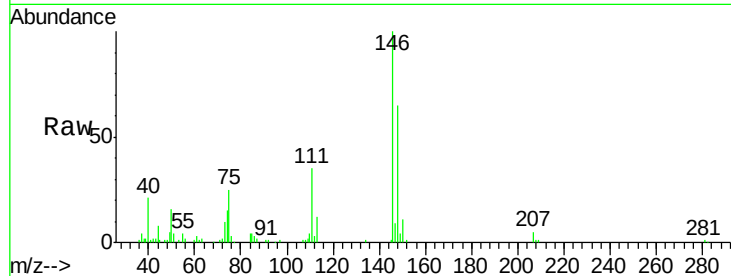




#91
 1,2-Dichlorobenzene
 Concen: 2.154 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN054167.D
 Acq: 12 Mar 2019 16:56

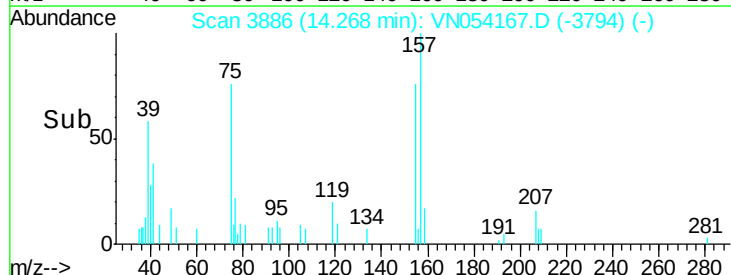
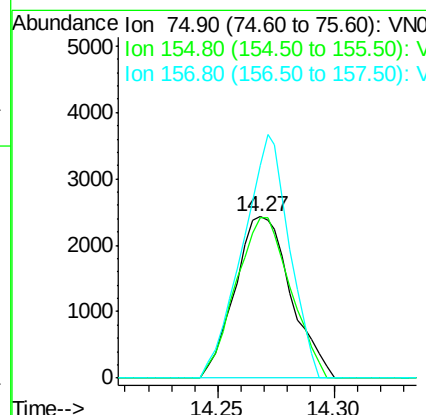
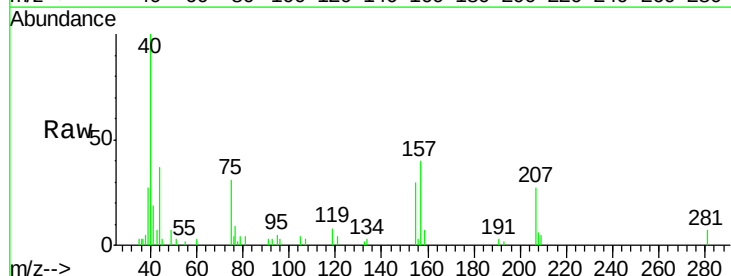
Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT1-2019

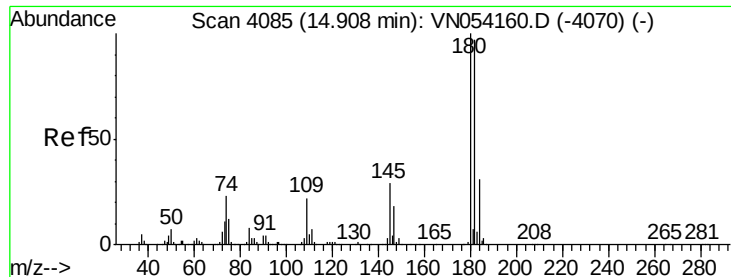
Tot Ion	Ratio	Lower	Upper
146	100		
111	35.5	19.1	57.3
148	63.9	32.4	97.0



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.005 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN054167.D
 Acq: 12 Mar 2019 16:56

Tgt Ion	Ratio	Lower	Upper
75	100		
155	97.3	50.1	150.3
157	126.3	63.1	189.3





#93

1,2,4-Trichlorobenzene

Concen: 4.016 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

Instrument :

MSVOA_N

ClientSampleId :

LOQ-WATER-02-QT1-2019

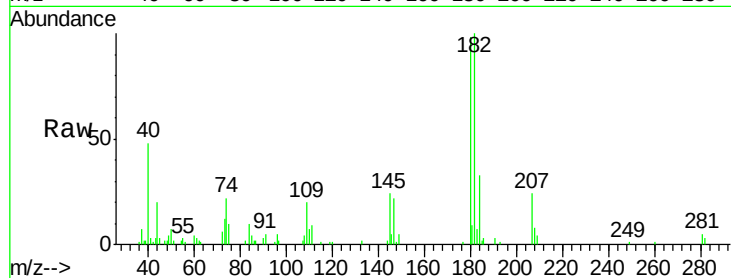
Tot Ion:180 Resp: 25587

Ion Ratio Lower Upper

180 100

182 100.4 48.0 144.2

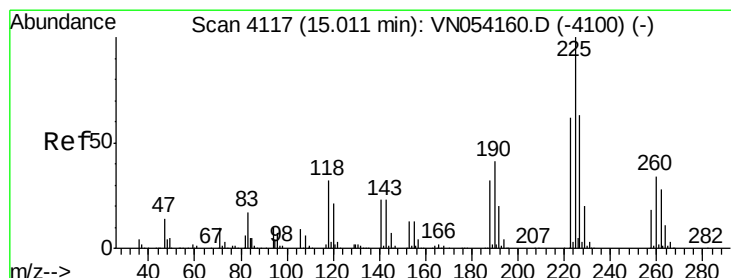
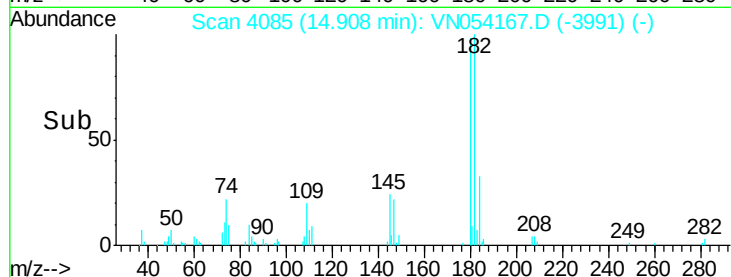
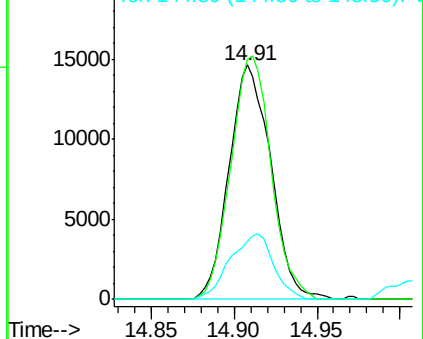
145 28.7 14.2 42.8



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 2.609 ug/l

RT: 15.01 min Scan# 4116

Delta R.T. -0.00 min

Lab File: VN054167.D

Acq: 12 Mar 2019 16:56

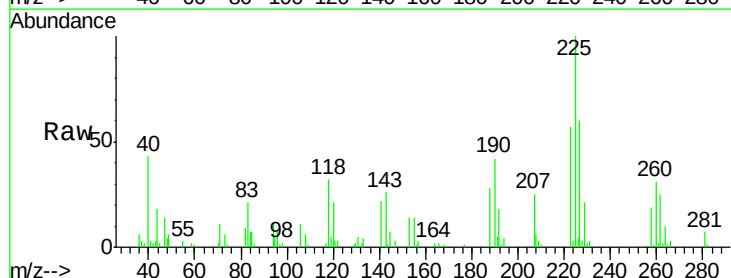
Tgt Ion:225 Resp: 26671

Ion Ratio Lower Upper

225 100

223 62.4 31.1 93.5

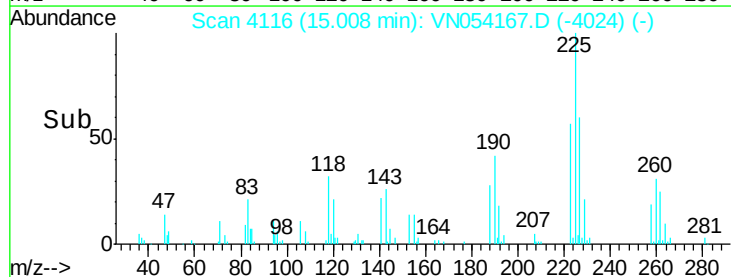
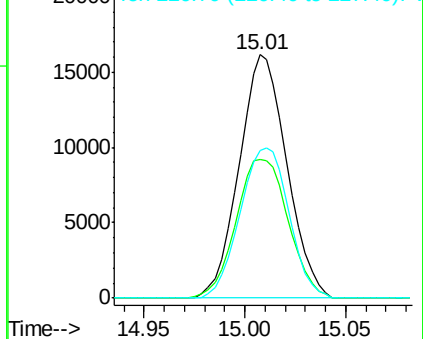
227 63.5 31.9 95.9

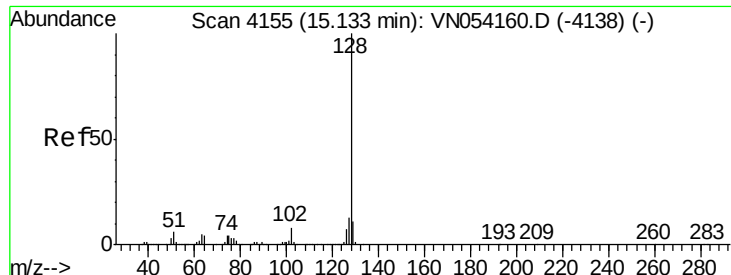


Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

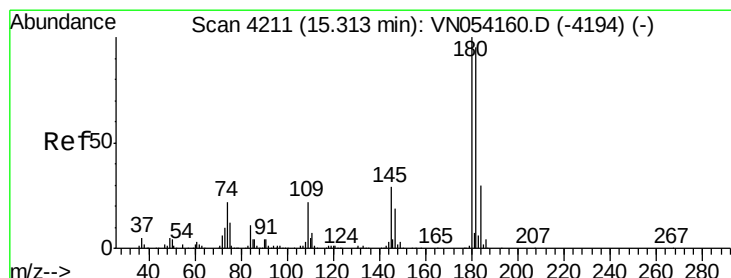
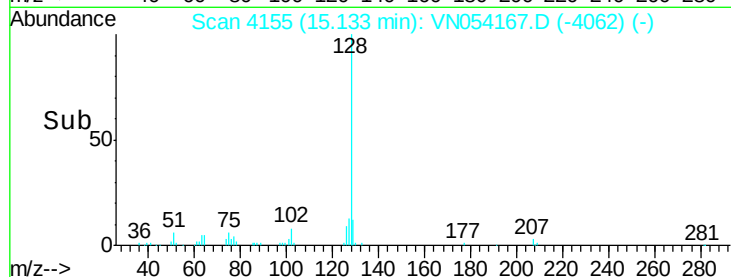
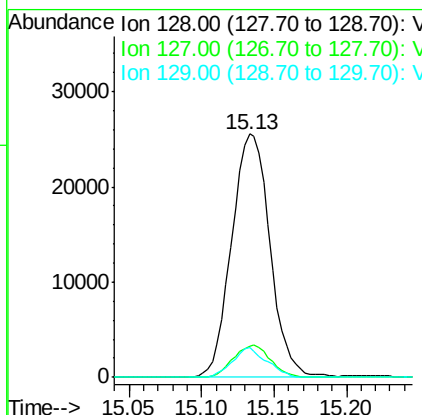
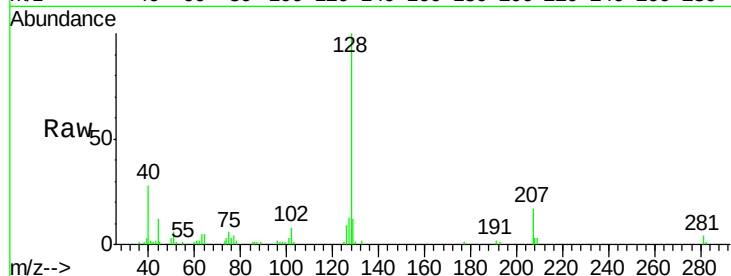




#95
Naphthalene
Concen: 4.766 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN054167.D
Acq: 12 Mar 2019 16:56

Instrument :
MSVOA_N
ClientSampleId :
LOQ-WATER-02-QT1-2019

Tot Ion:128 Resp: 47019
Ion Ratio Lower Upper
128 100
127 12.9 10.1 15.1
129 10.8 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 1.591 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN054167.D
Acq: 12 Mar 2019 16:56

Tgt Ion:180 Resp: 22694
Ion Ratio Lower Upper
180 100
182 95.0 47.5 142.6
145 32.2 14.8 44.3

