

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101419\
 Data File : VN058753.D
 Acq On : 14 Oct 2019 16:55
 Operator : JC/SP
 Sample : K5111-07 2.5PPB LOD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Quant Time: Oct 15 03:12:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	378417	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	626040	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	571076	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	249491	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	289619	54.67	ug/l	0.00
Spiked Amount			Recovery	=	109.34%	
35) Dibromofluoromethane	7.57	113	205531	53.15	ug/l	0.00
Spiked Amount			Recovery	=	106.30%	
50) Toluene-d8	10.08	98	770336	49.82	ug/l	0.00
Spiked Amount			Recovery	=	99.64%	
62) 4-Bromofluorobenzene	12.41	95	269204	45.99	ug/l	0.00
Spiked Amount			Recovery	=	91.98%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.83	85	12621	2.678	ug/l	96
3) Chloromethane	2.04	50	16070	2.867	ug/l	95
4) Vinyl Chloride	2.17	62	15433	2.765	ug/l	95
5) Bromomethane	2.54	94	9965	2.935	ug/l	89
6) Chloroethane	2.68	64	9666	2.808	ug/l	93
7) Trichlorofluoromethane	3.00	101	19042	2.851	ug/l	98
8) Diethyl Ether	3.39	74	6240	2.528	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.73	101	4546	1.194	ug/l #	1
10) Methyl Iodide	3.93	142	12086	2.325	ug/l	99
11) Tert butyl alcohol	4.76	59	12667	14.764	ug/l #	89
12) 1,1-Dichloroethene	3.72	96	10324	2.841	ug/l	92
13) Acrolein	3.59	56	7413	10.743	ug/l	94
14) Allyl chloride	4.30	41	18002	2.455	ug/l	93
15) Acrylonitrile	4.97	53	27545	12.731	ug/l	99
16) Acetone	3.80	43	26775	12.208	ug/l	99
17) Carbon Disulfide	4.03	76	31474	2.709	ug/l	99
18) Methyl Acetate	4.31	43	17495	3.145	ug/l	97
19) Methyl tert-butyl Ether	5.02	73	33565	2.587	ug/l	96
20) Methylene Chloride	4.53	84	13469	2.938	ug/l	90
21) trans-1,2-Dichloroethene	5.02	96	10642	2.618	ug/l	95
22) Diisopropyl ether	5.93	45	36364	2.550	ug/l #	91
23) Vinyl Acetate	5.88	43	139643	12.136	ug/l	99
24) 1,1-Dichloroethane	5.83	63	22116	2.723	ug/l	96
25) 2-Butanone	6.82	43	38418	12.119	ug/l	96
26) 2,2-Dichloropropane	6.80	77	18595	2.508	ug/l #	74
27) cis-1,2-Dichloroethene	6.81	96	12462	2.629	ug/l	99
28) Bromochloromethane	7.18	49	7312	2.588	ug/l #	98
29) Tetrahydrofuran	7.20	42	25877	12.631	ug/l	98
30) Chloroform	7.35	83	22787	2.793	ug/l	99
31) Cyclohexane	7.64	56	26907	3.463	ug/l #	61
32) 1,1,1-Trichloroethane	7.55	97	18399	2.644	ug/l	96
36) 1,1-Dichloropropene	7.77	75	16006	2.529	ug/l	96
37) Ethyl Acetate	6.92	43	12907	2.016	ug/l #	91
38) Carbon Tetrachloride	7.76	117	16950	2.748	ug/l	99

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

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

39) Methylcyclohexane	9.07	83	17121	2.331	ug/l	97
40) Benzene	8.02	78	47344	2.604	ug/l	100
41) Methacrylonitrile	7.20	41	24623	8.217	ug/l #	6
42) 1,2-Dichloroethane	8.11	62	18908	2.707	ug/l	99
43) Isopropyl Acetate	8.15	43	28939	2.654	ug/l	97
44) Trichloroethene	8.82	130	12117	2.684	ug/l	99
45) 1,2-Dichloropropane	9.10	63	12926	2.656	ug/l	99
46) Dibromomethane	9.20	93	8766	2.841	ug/l	95
47) Bromodichloromethane	9.40	83	17182	2.735	ug/l	99
48) Methyl methacrylate	9.19	41	12028	2.433	ug/l	96
49) 1,4-Dioxane	9.19	88	4572	59.785	ug/l #	88
51) 4-Methyl-2-Pentanone	9.98	43	78371	12.796	ug/l	96
52) Toluene	10.15	92	29073	2.615	ug/l	97
53) t-1,3-Dichloropropene	10.38	75	17309	2.402	ug/l	89
54) cis-1,3-Dichloropropene	9.83	75	18457	2.412	ug/l	93
55) 1,1,2-Trichloroethane	10.56	97	11505	2.528	ug/l	97
56) Ethyl methacrylate	10.43	69	14287	2.149	ug/l #	86
57) 1,3-Dichloropropane	10.71	76	20061	2.587	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.69	63	32899	10.268	ug/l	97
59) 2-Hexanone	10.75	43	54840	11.587	ug/l	98
60) Dibromochloromethane	10.90	129	11087	2.362	ug/l	96
61) 1,2-Dibromoethane	11.00	107	10989	2.410	ug/l	96
64) Tetrachloroethene	10.63	164	10625	2.659	ug/l	98
65) Chlorobenzene	11.43	112	30156	2.600	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.51	131	10401	2.425	ug/l	87
67) Ethyl Benzene	11.51	91	51395	2.486	ug/l	98
68) m/p-Xylenes	11.62	106	36471	4.701	ug/l	99
69) o-Xylene	11.95	106	17986	2.396	ug/l	97
70) Styrene	11.97	104	25613	2.082	ug/l	91
71) Bromoform	12.13	173	7511	2.389	ug/l #	97
73) Isopropylbenzene	12.25	105	46220	2.558	ug/l	97
74) N-amyl acetate	12.07	43	18562	2.287	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.51	83	17420	2.927	ug/l	99
76) 1,2,3-Trichloropropane	12.56	75	23265	4.251	ug/l #	100
77) Bromobenzene	12.53	156	11753	2.674	ug/l	98
78) n-propylbenzene	12.60	91	57082	2.711	ug/l	97
79) 2-Chlorotoluene	12.68	91	34836	2.666	ug/l	99
80) 1,3,5-Trimethylbenzene	12.74	105	37639	2.440	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	5037	2.465	ug/l	94
82) 4-Chlorotoluene	12.78	91	33444	2.494	ug/l	98
83) tert-Butylbenzene	13.00	119	33187	2.511	ug/l	98
84) 1,2,4-Trimethylbenzene	13.05	105	36602	2.390	ug/l	98
85) sec-Butylbenzene	13.18	105	43168	2.479	ug/l	100
86) p-Isopropyltoluene	13.29	119	35458	2.240	ug/l	95
87) 1,3-Dichlorobenzene	13.29	146	20047	2.473	ug/l	97
88) 1,4-Dichlorobenzene	13.37	146	20864	2.532	ug/l	86
89) n-Butylbenzene	13.62	91	33220	2.270	ug/l	98
90) Hexachloroethane	13.88	117	7643	2.699	ug/l	96
91) 1,2-Dichlorobenzene	13.66	146	20177	2.554	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.27	75	4066	2.924	ug/l	80

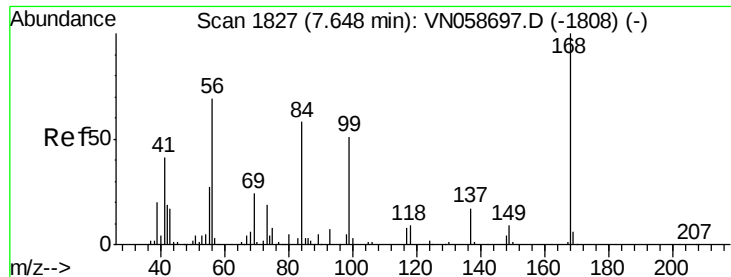
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.92	180	10705	2.221	ug/l	97
94) Hexachlorobutadiene	15.01	225	6316	2.489	ug/l	97
95) Naphthalene	15.13	128	26733	1.930	ug/l	97
96) 1,2,3-Trichlorobenzene	15.30	180	9802	2.083	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

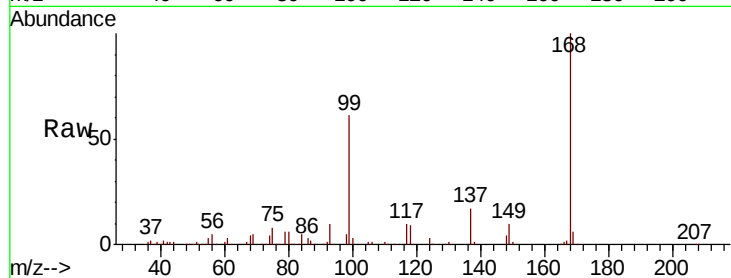
LOD-MDL-WATER-01-QT4-2019

Tot Ion:168 Resp: 378417

Ion Ratio Lower Upper

168 100

99 61.0 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

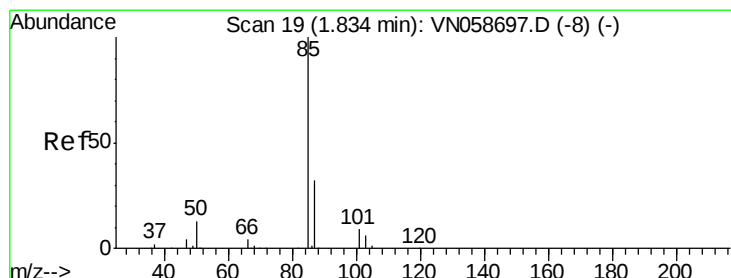
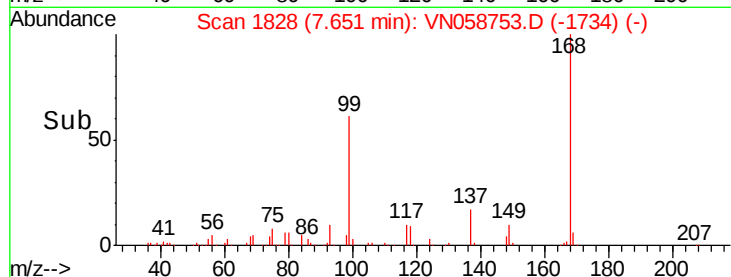
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 2.678 ug/l

RT: 1.83 min Scan# 19

Delta R.T. -0.00 min

Lab File: VN058753.D

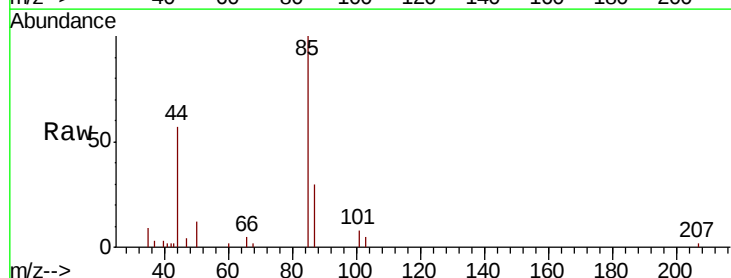
Acq: 14 Oct 2019 16:55

Tgt Ion: 85 Resp: 12621

Ion Ratio Lower Upper

85 100

87 30.1 16.2 48.6



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

10000

8000

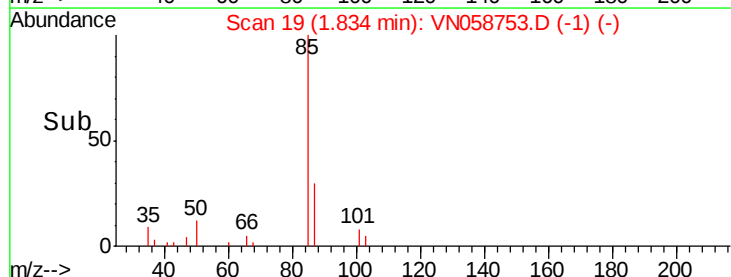
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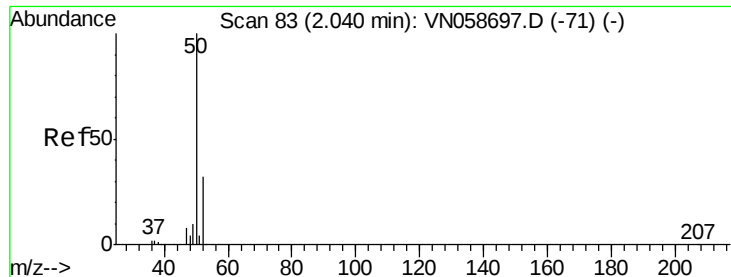
4000

2000

0

Time-->





#3

Chloromethane

Concen: 2.867 ug/l

RT: 2.04 min Scan# 84

Delta R.T. 0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

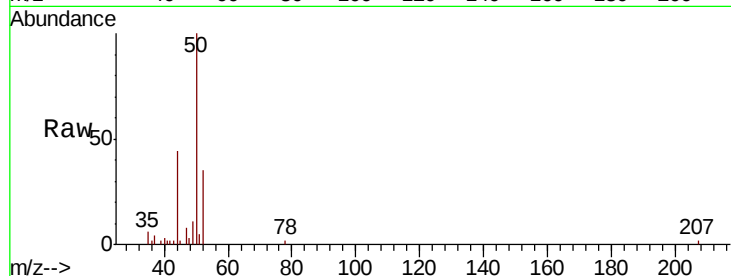
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 50 Resp: 16070

Ion Ratio Lower Upper

50 100

52 34.8 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.04

12000

10000

8000

6000

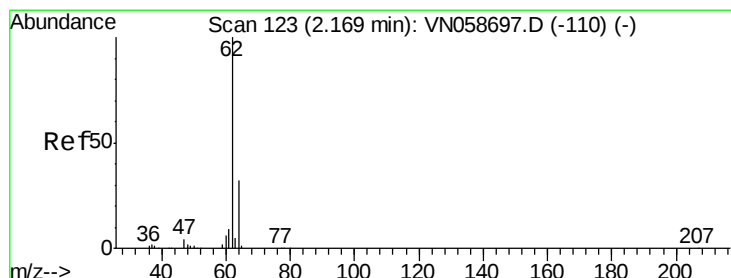
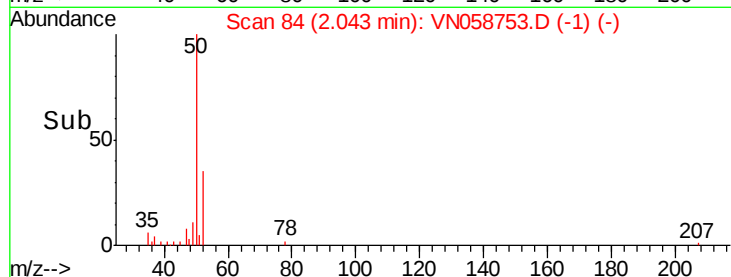
4000

2000

0

Time-->

2.00 2.05 2.10



#4

Vinyl Chloride

Concen: 2.765 ug/l

RT: 2.17 min Scan# 123

Delta R.T. -0.00 min

Lab File: VN058753.D

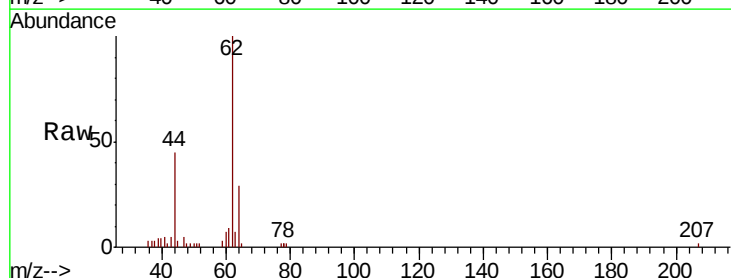
Acq: 14 Oct 2019 16:55

Tgt Ion: 62 Resp: 15433

Ion Ratio Lower Upper

62 100

64 28.8 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

2.17

12000

10000

8000

6000

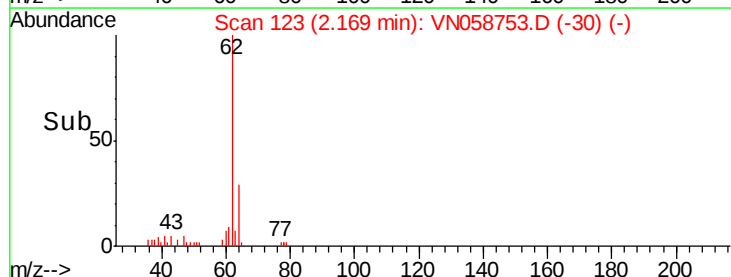
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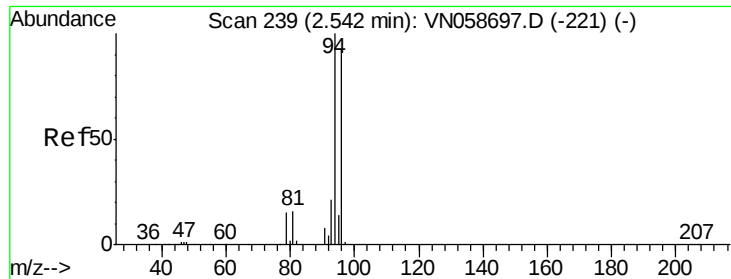
2000

0

Time-->

2.10 2.15 2.20 2.25





#5

Bromomethane

Concen: 2.935 ug/l

RT: 2.54 min Scan# 240

Delta R.T. 0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

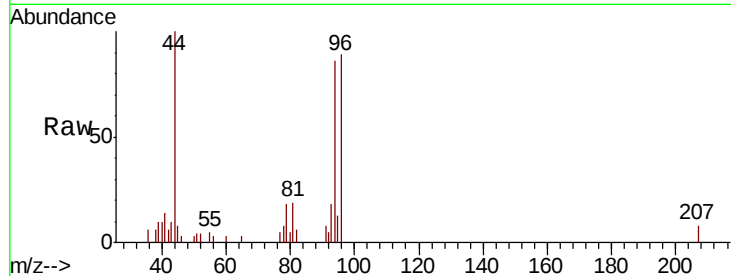
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 94 Resp: 9965

Ion Ratio Lower Upper

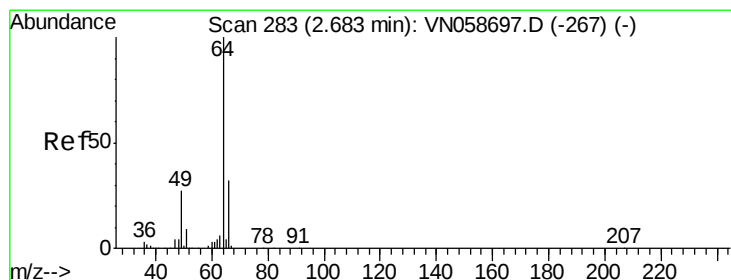
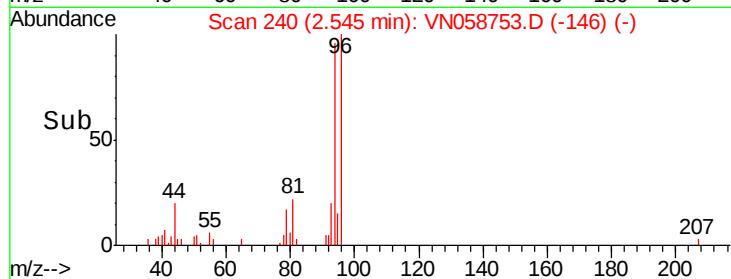
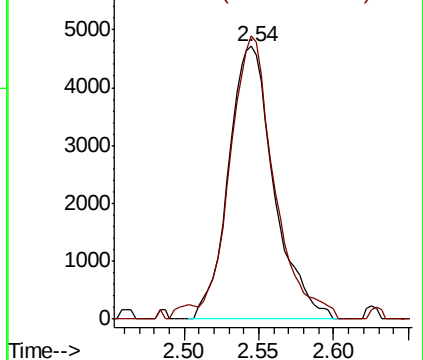
94 100

96 103.7 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 2.808 ug/l

RT: 2.68 min Scan# 283

Delta R.T. -0.00 min

Lab File: VN058753.D

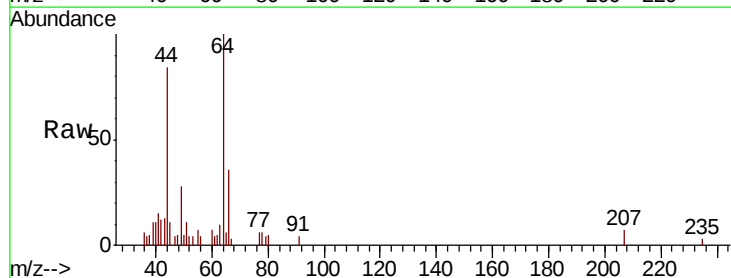
Acq: 14 Oct 2019 16:55

Tgt Ion: 64 Resp: 9666

Ion Ratio Lower Upper

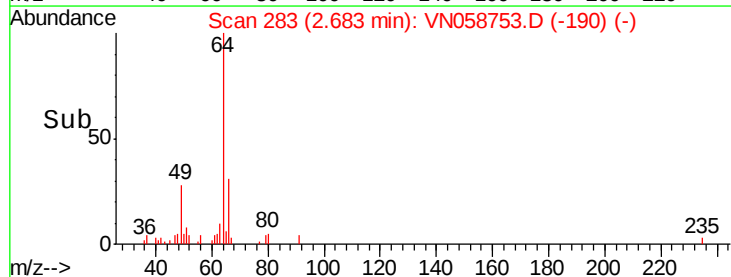
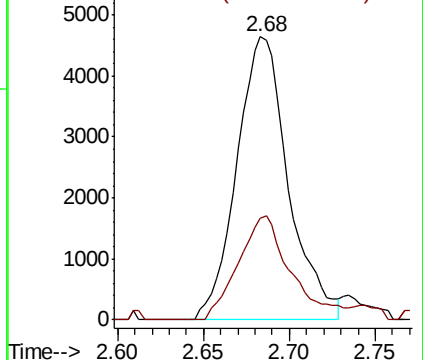
64 100

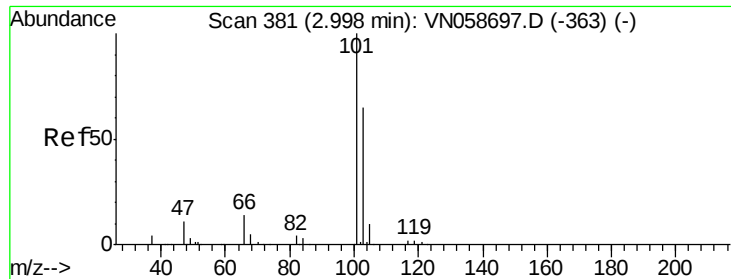
66 35.8 25.4 38.2



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



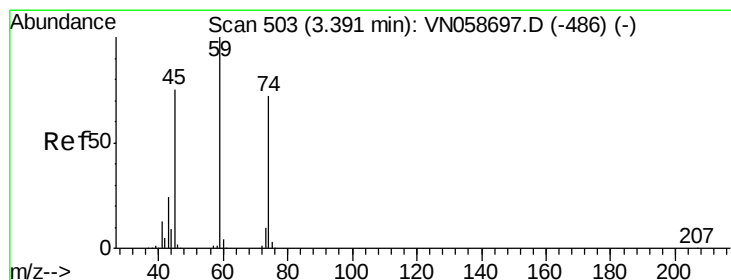
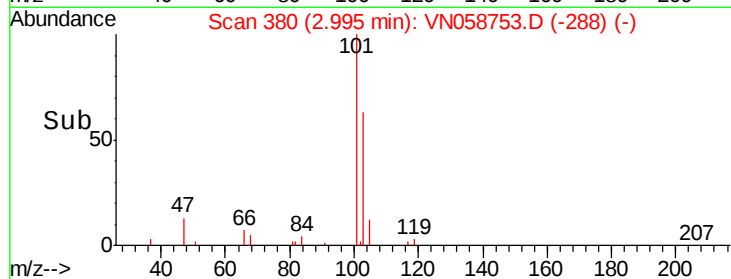
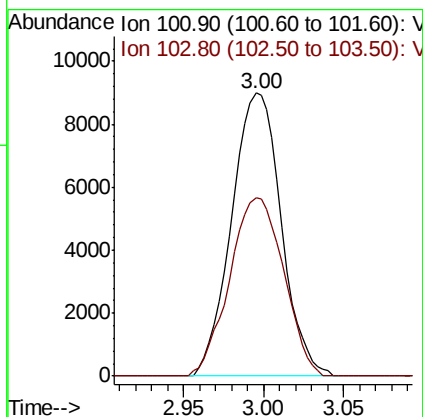
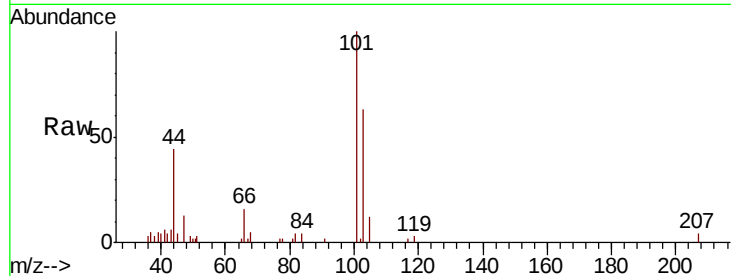


#7

Trichlorofluoromethane
 Concen: 2.851 ug/l
 RT: 3.00 min Scan# 380
 Delta R.T. -0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

Instrument :
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 LOD-MDL-WATER-01-QT4-2019

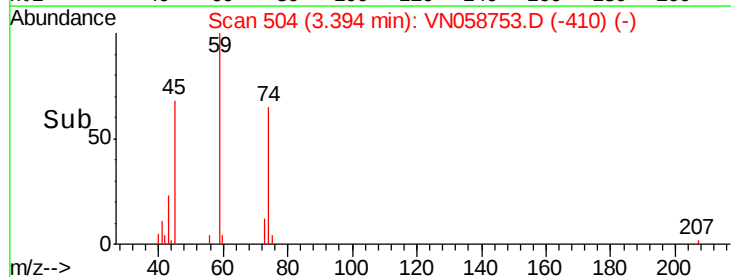
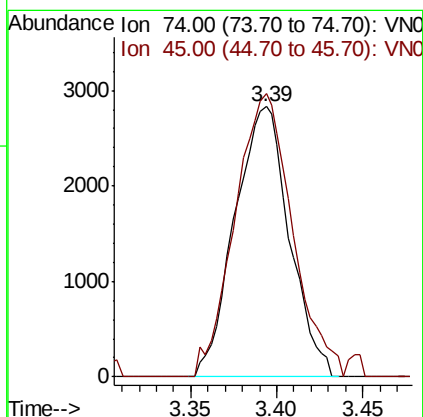
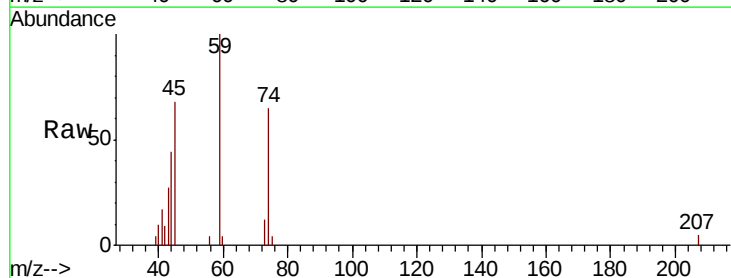
Tot Ion:101 Resp: 19042
 Ion Ratio Lower Upper
 101 100
 103 63.3 51.8 77.6

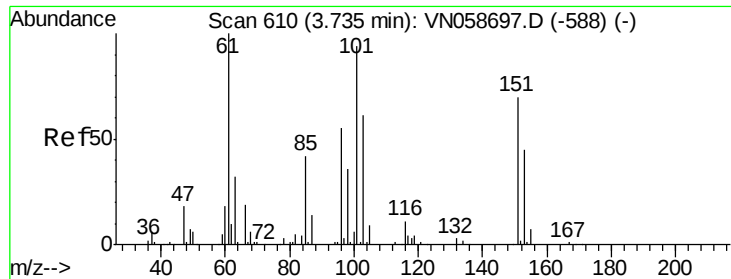


#8

Diethyl Ether
 Concen: 2.528 ug/l
 RT: 3.39 min Scan# 504
 Delta R.T. 0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

Tgt Ion: 74 Resp: 6240
 Ion Ratio Lower Upper
 74 100
 45 110.3 51.3 154.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.194 ug/l

RT: 3.73 min Scan# 609

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

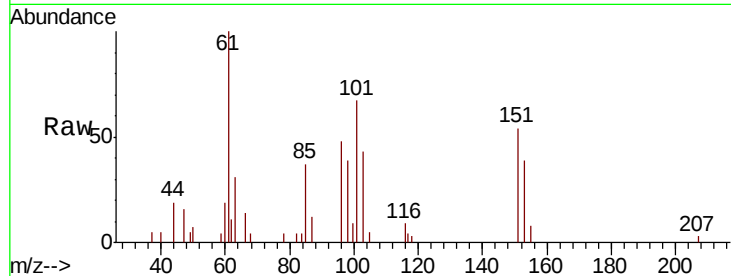
Tot Ion:101 Resp: 4546

Ion Ratio Lower Upper

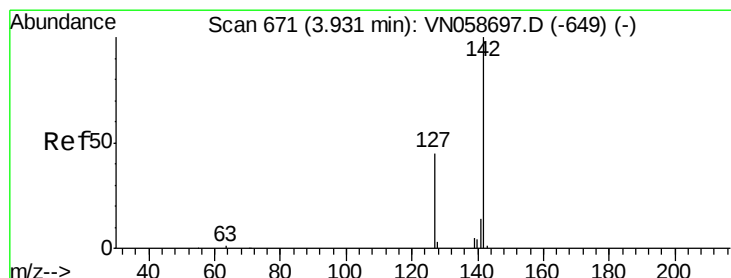
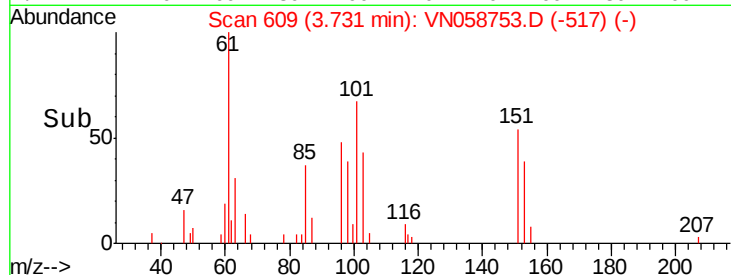
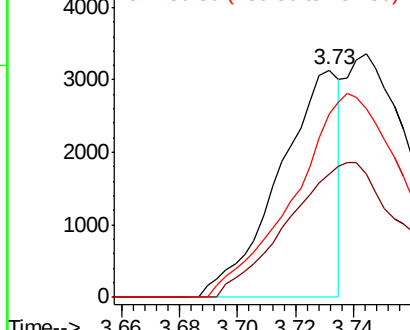
101 100

85 111.4 37.0 55.6#

151 166.6 61.8 92.6#



Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 2.325 ug/l

RT: 3.93 min Scan# 671

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

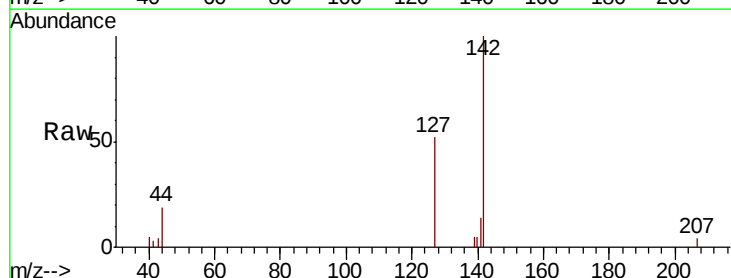
Tgt Ion:142 Resp: 12086

Ion Ratio Lower Upper

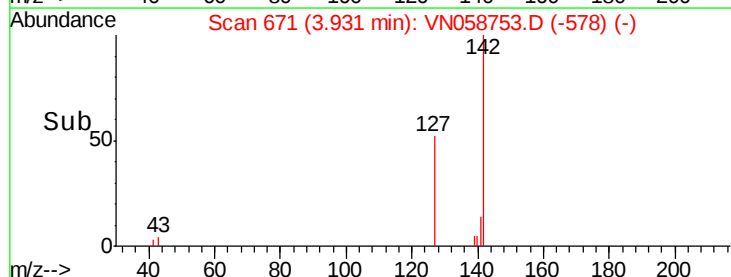
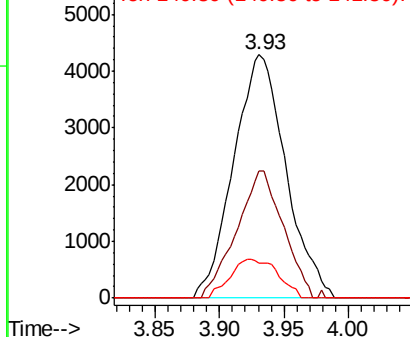
142 100

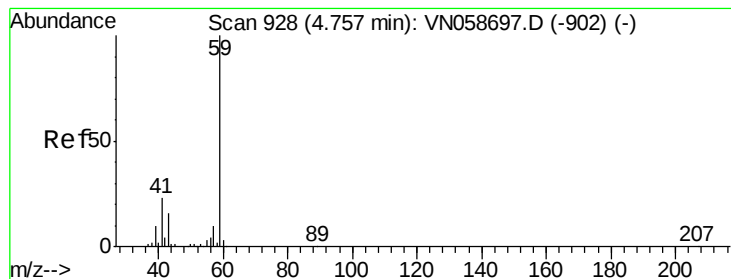
127 46.4 36.4 54.6

141 14.6 11.1 16.7



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 14.764 ug/l

RT: 4.76 min Scan# 930

Delta R.T. 0.01 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

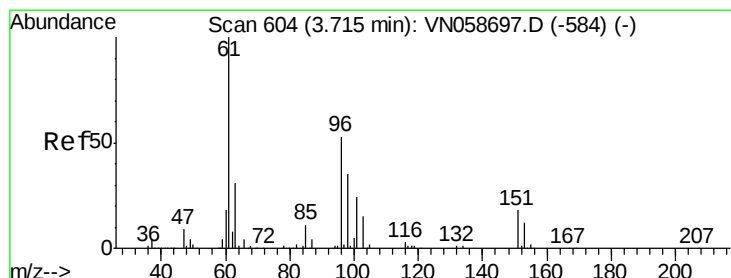
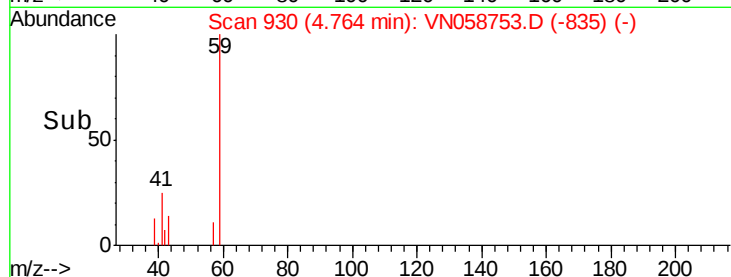
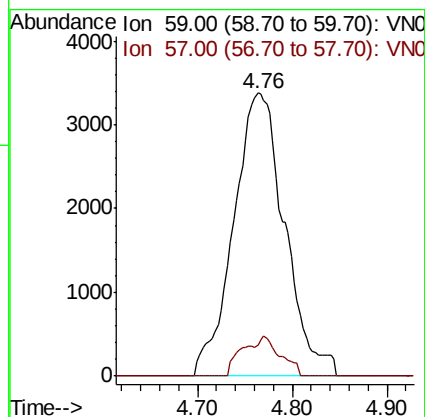
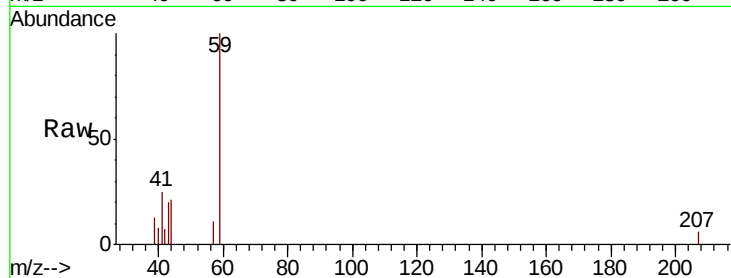
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 59 Resp: 12667

Ion Ratio Lower Upper

59 100

57 6.3 8.4 12.6#



#12

1,1-Dichloroethene

Concen: 2.841 ug/l

RT: 3.72 min Scan# 605

Delta R.T. 0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

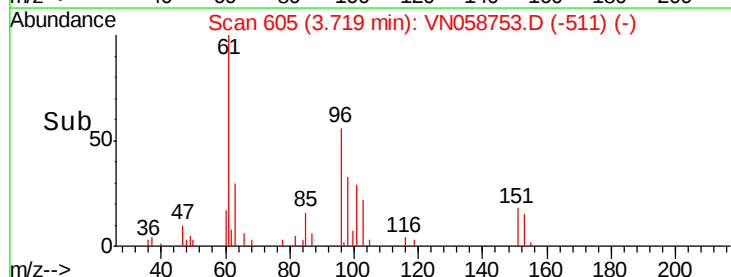
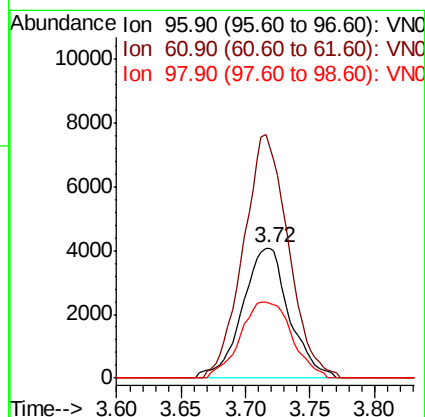
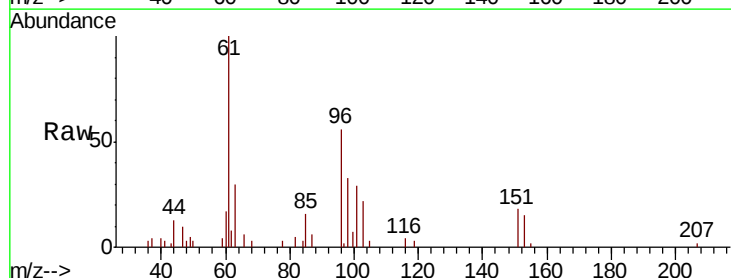
Tgt Ion: 96 Resp: 10324

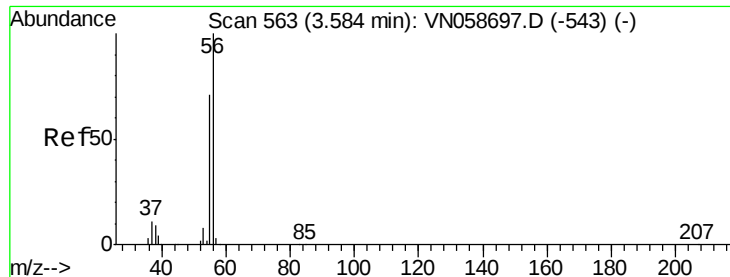
Ion Ratio Lower Upper

96 100

61 177.6 151.3 226.9

98 57.8 52.6 78.8





#13

Acrolein

Concen: 10.743 ug/l

RT: 3.59 min Scan# 564

Delta R.T. 0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

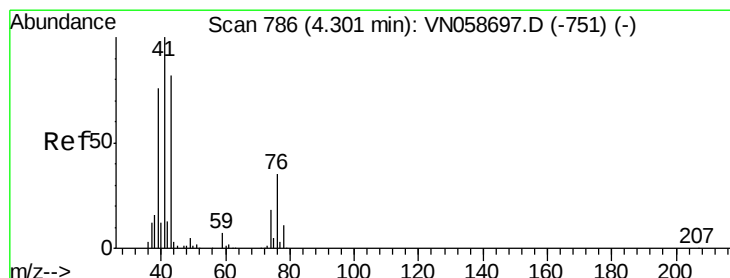
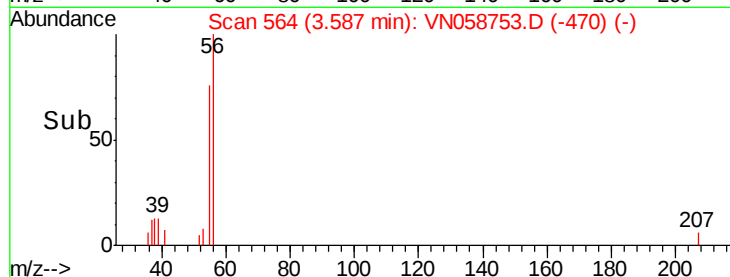
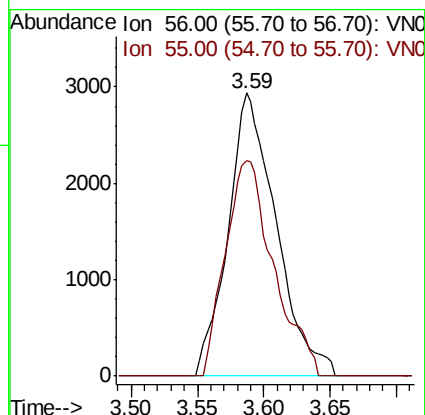
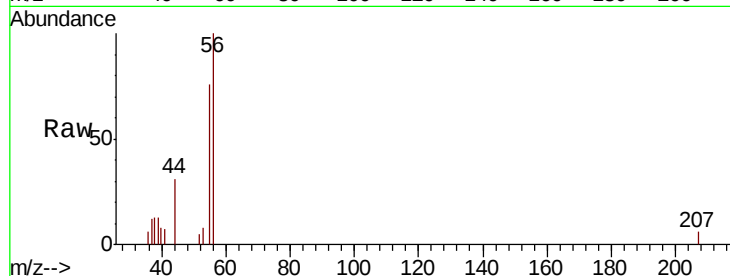
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 56 Resp: 7413

Ion Ratio Lower Upper

56 100

55 76.2 56.7 85.1



#14

Allyl chloride

Concen: 2.455 ug/l

RT: 4.30 min Scan# 786

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

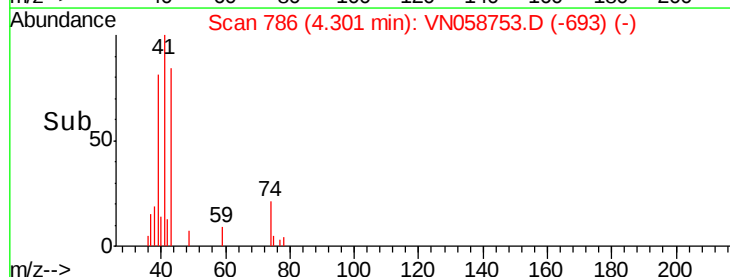
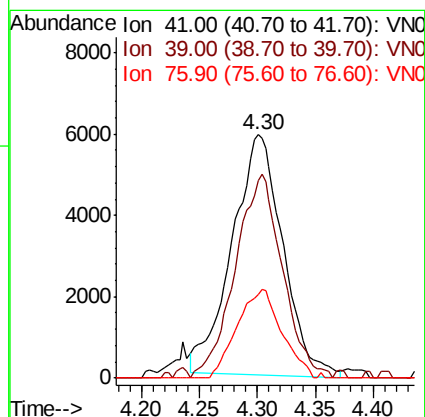
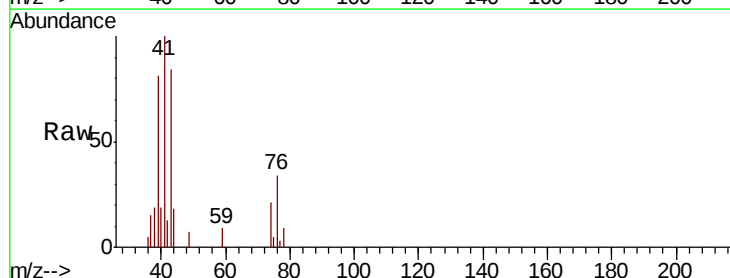
Tgt Ion: 41 Resp: 18002

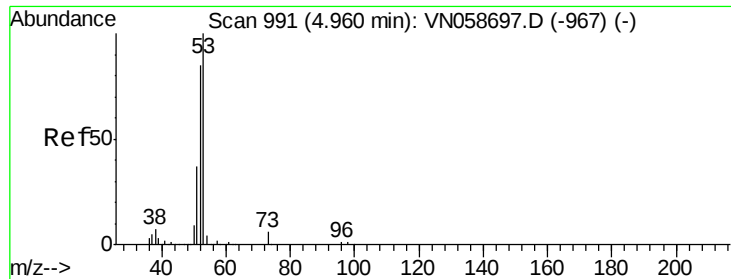
Ion Ratio Lower Upper

41 100

39 78.8 57.2 85.8

76 32.4 25.0 37.6





#15

Acrylonitrile

Concen: 12.731 ug/l

RT: 4.97 min Scan# 994

Delta R.T. 0.01 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

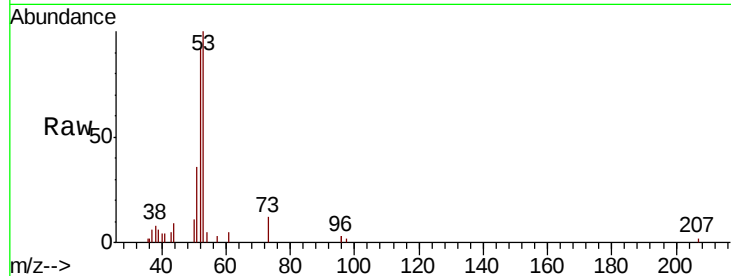
Tot Ion: 53 Resp: 27545

Ion Ratio Lower Upper

53 100

52 84.1 66.2 99.2

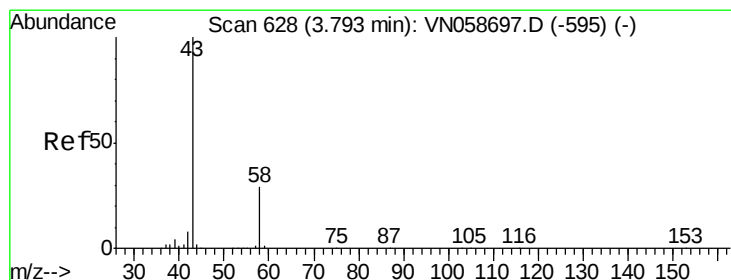
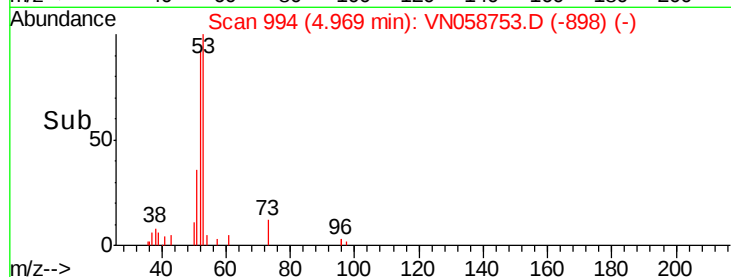
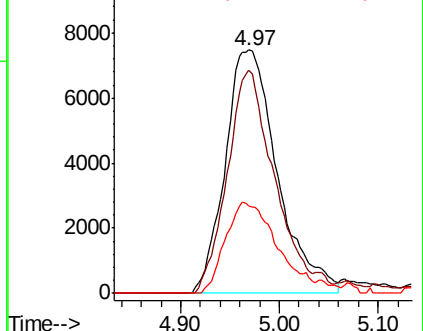
51 36.9 29.4 44.2



Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0



#16

Acetone

Concen: 12.208 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN058753.D

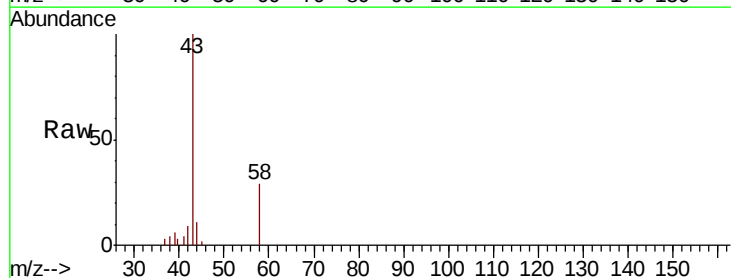
Acq: 14 Oct 2019 16:55

Tgt Ion: 43 Resp: 26775

Ion Ratio Lower Upper

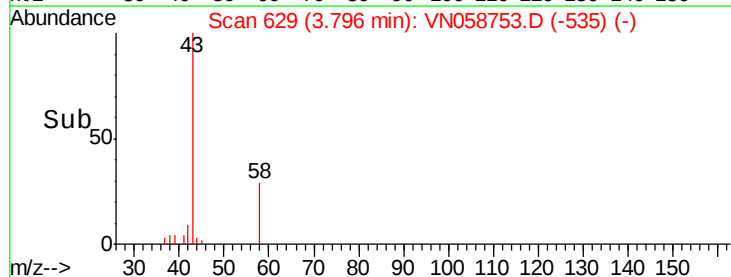
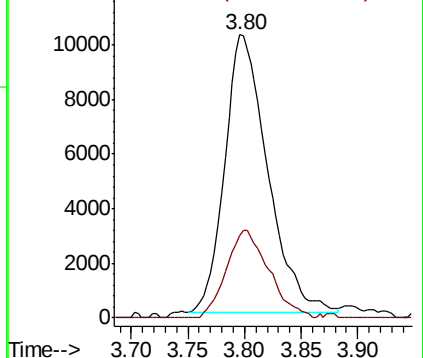
43 100

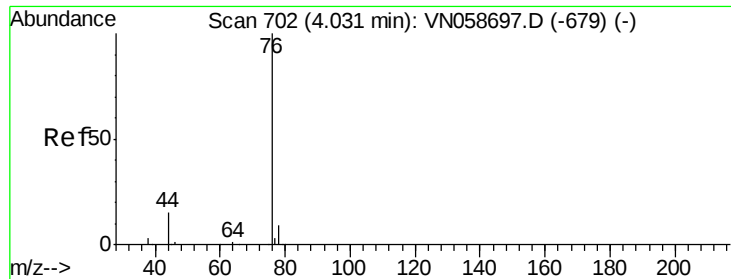
58 29.5 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

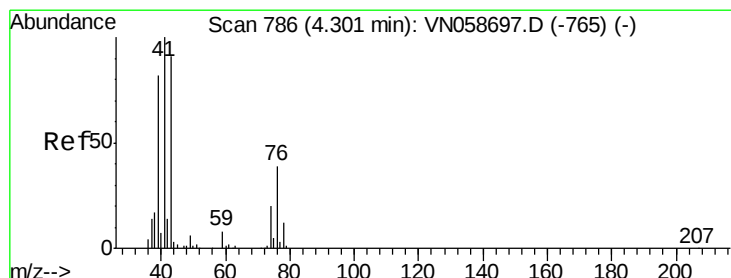
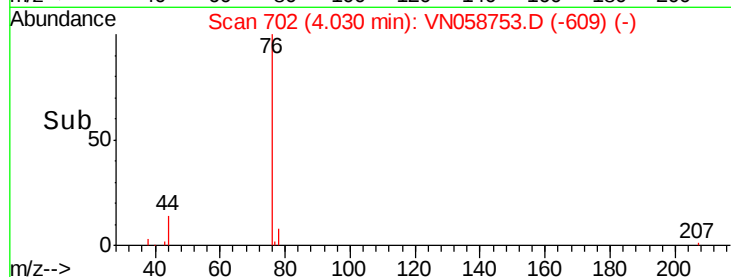
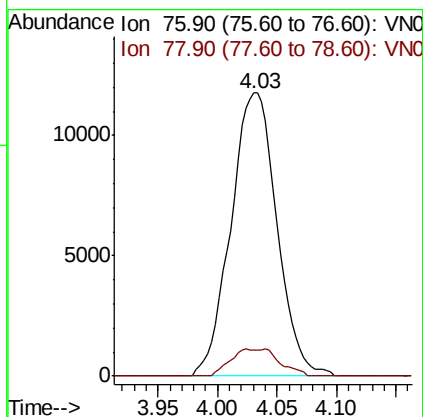
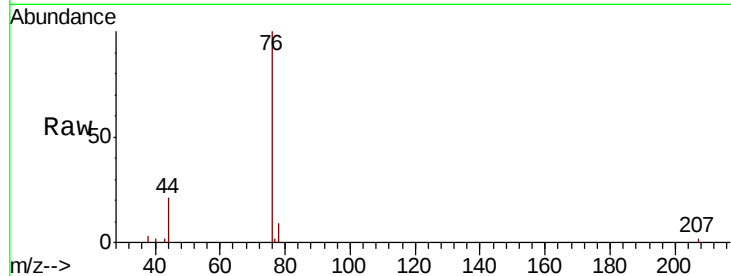




#17
Carbon Disulfide
Concen: 2.709 ug/l
RT: 4.03 min Scan# 702
Delta R.T. -0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

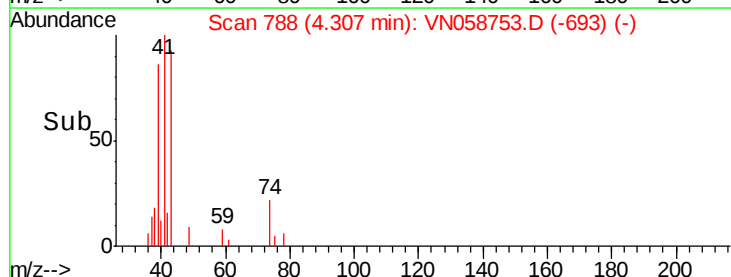
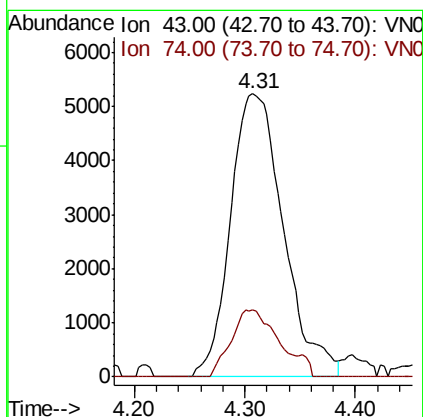
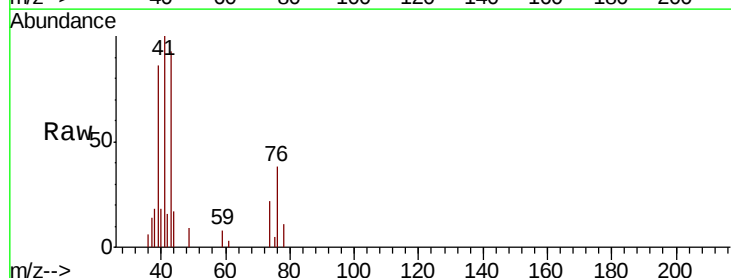
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

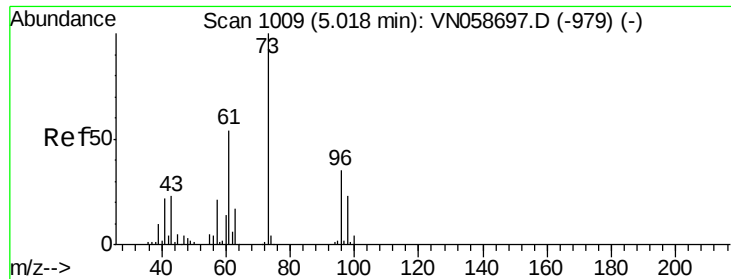
Tot Ion: 76 Resp: 31474
Ion Ratio Lower Upper
76 100
78 9.3 7.1 10.7



#18
Methyl Acetate
Concen: 3.145 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.01 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Tgt Ion: 43 Resp: 17495
Ion Ratio Lower Upper
43 100
74 20.1 17.2 25.8

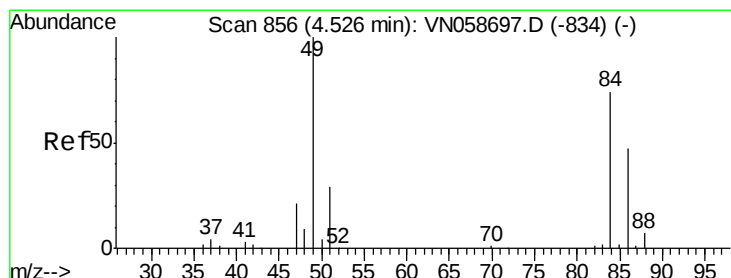
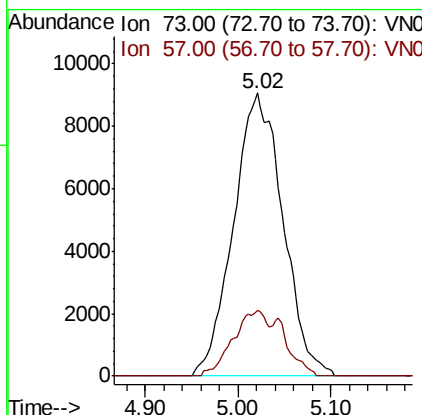
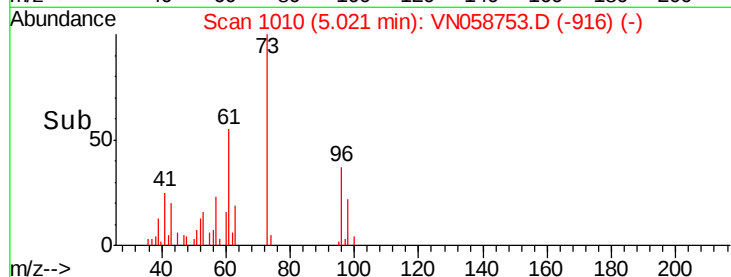
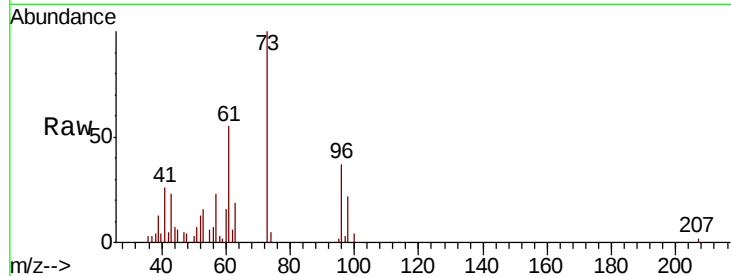




#19
Methyl tert-butyl Ether
Concen: 2.587 ug/l
RT: 5.02 min Scan# 1010
Delta R.T. 0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

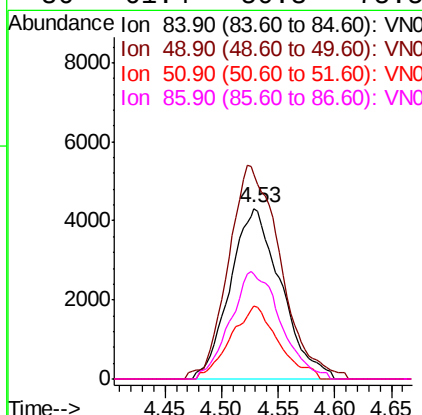
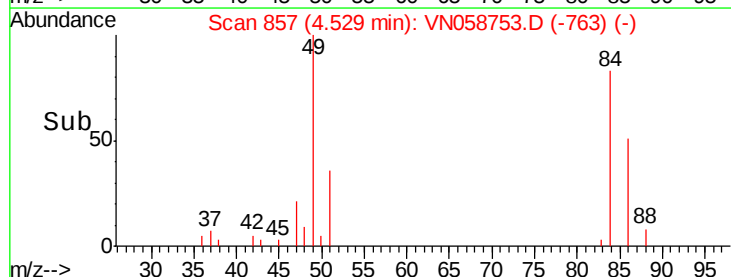
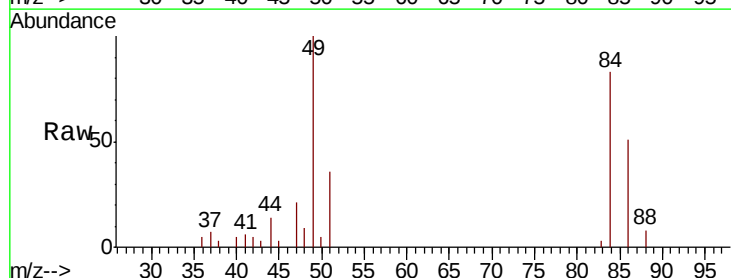
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

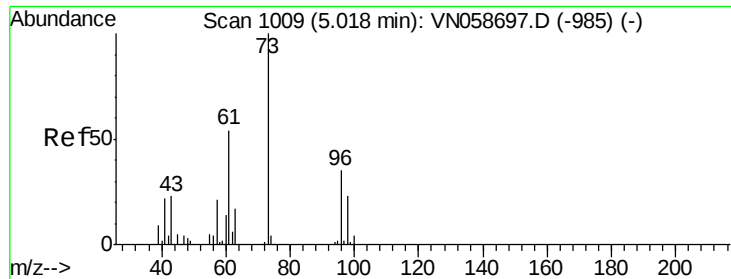
Tot Ion: 73 Resp: 33565
Ion Ratio Lower Upper
73 100
57 23.3 17.0 25.6



#20
Methylene Chloride
Concen: 2.938 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Tgt Ion: 84 Resp: 13469
Ion Ratio Lower Upper
84 100
49 116.4 107.6 161.4
51 42.6 31.4 47.0
86 61.4 50.3 75.5





#21

trans-1,2-Dichloroethene

Concen: 2.618 ug/l

RT: 5.02 min Scan# 1010

Delta R.T. 0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

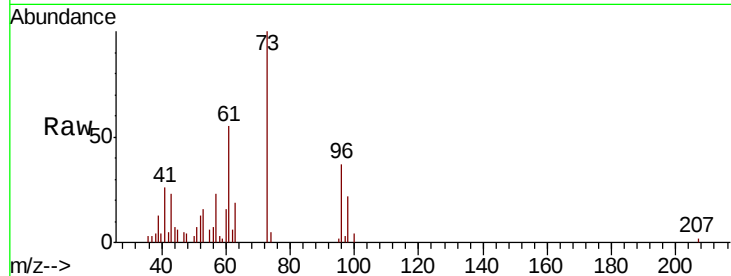
Tot Ion: 96 Resp: 10642

Ion Ratio Lower Upper

96 100

61 148.7 123.6 185.4

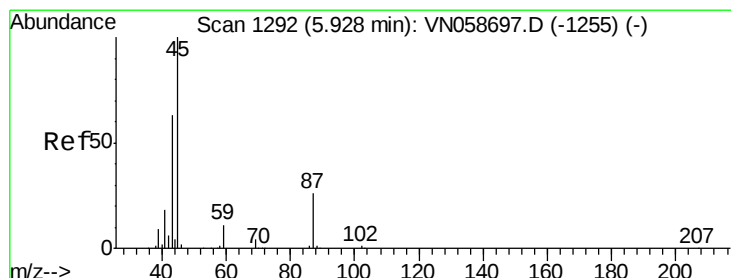
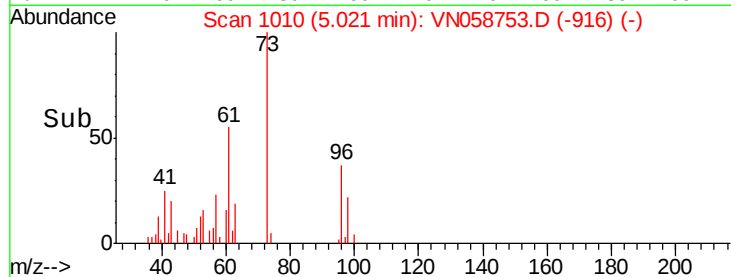
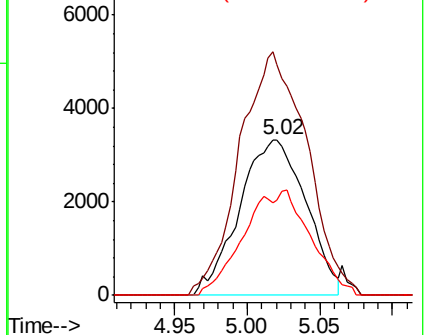
98 61.2 52.1 78.1



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 2.550 ug/l

RT: 5.93 min Scan# 1293

Delta R.T. 0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Tgt Ion: 45 Resp: 36364

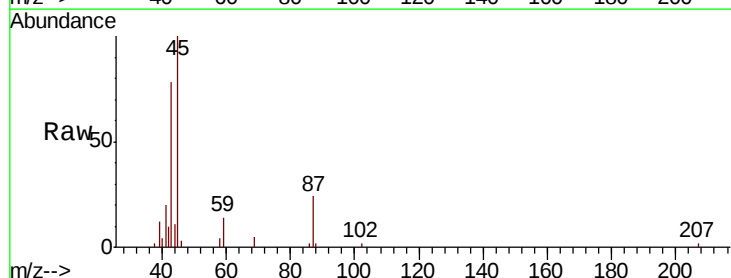
Ion Ratio Lower Upper

45 100

43 72.1 50.6 75.8

87 24.0 21.1 31.7

59 13.9 9.0 13.4#

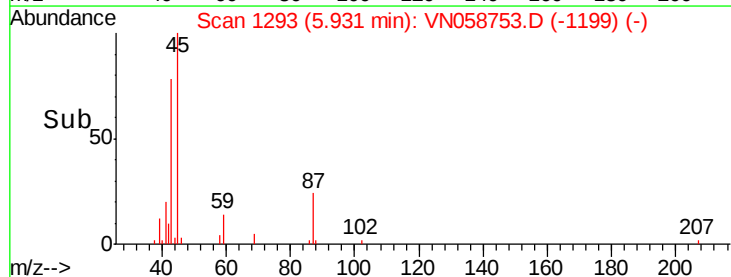
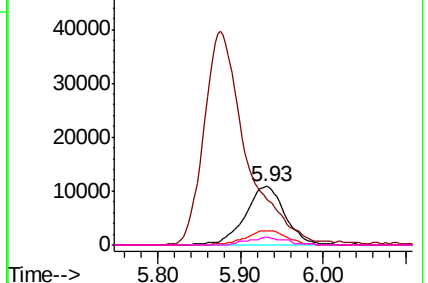


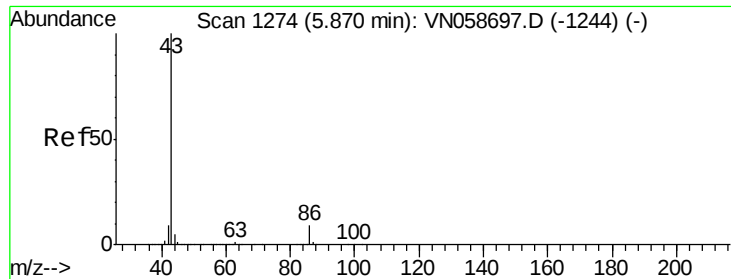
Abundance Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 12.136 ug/l

RT: 5.88 min Scan# 1276

Delta R.T. 0.01 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

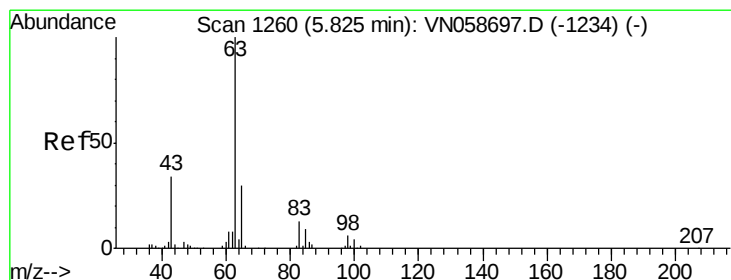
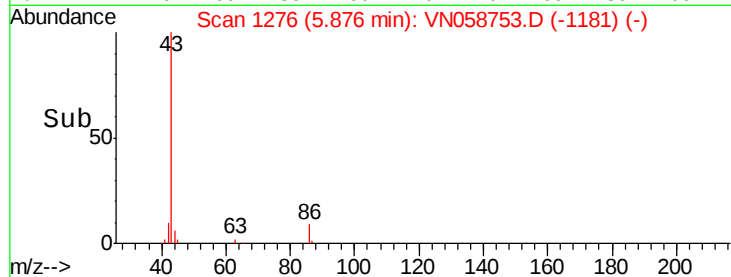
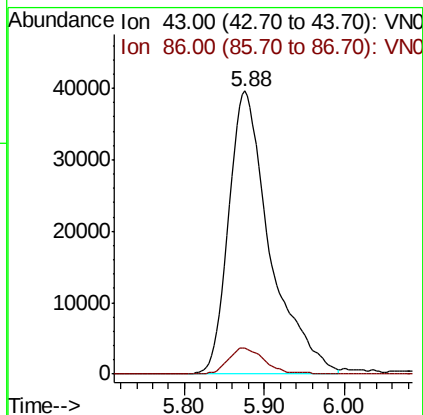
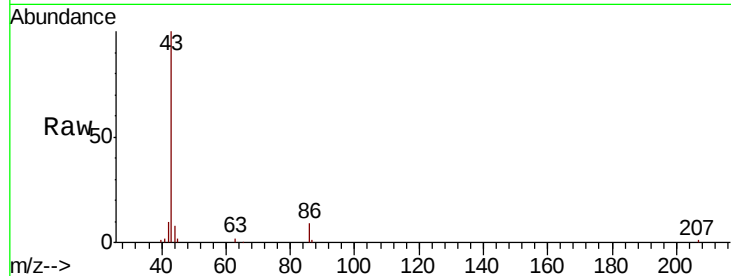
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 43 Resp: 139643

Ion Ratio Lower Upper

43 100

86 9.0 7.4 11.0



#24

1,1-Dichloroethane

Concen: 2.723 ug/l

RT: 5.83 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

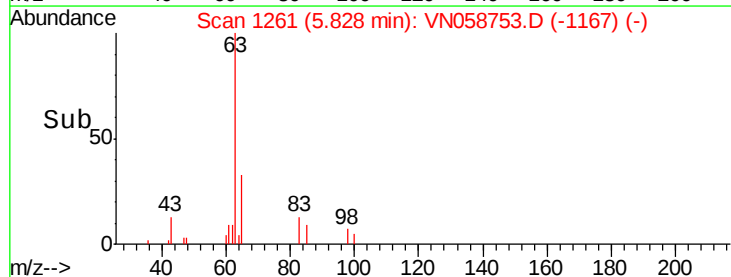
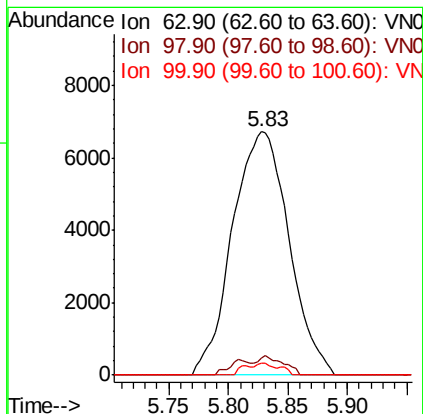
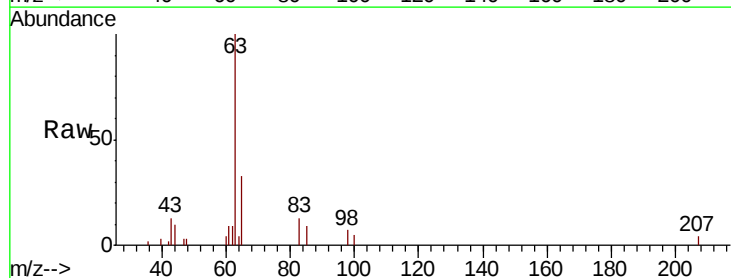
Tgt Ion: 63 Resp: 22116

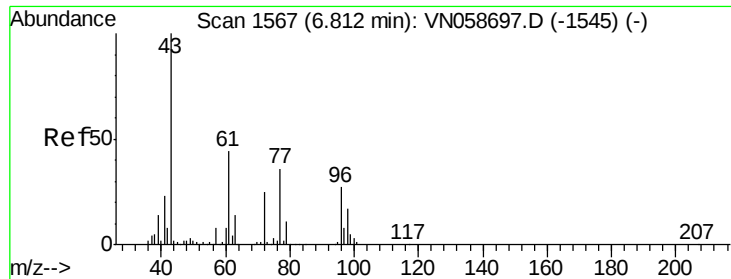
Ion Ratio Lower Upper

63 100

98 7.2 2.9 8.6

100 4.9 1.8 5.5

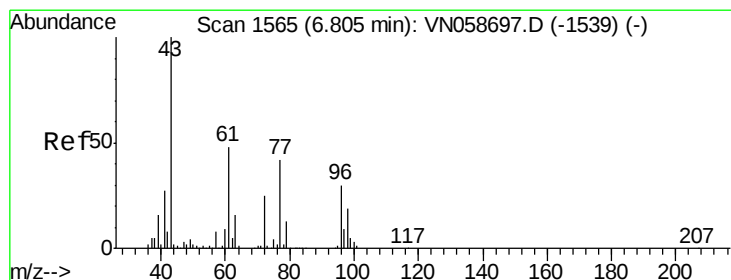
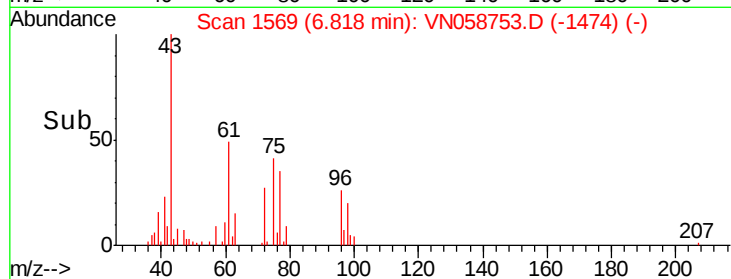
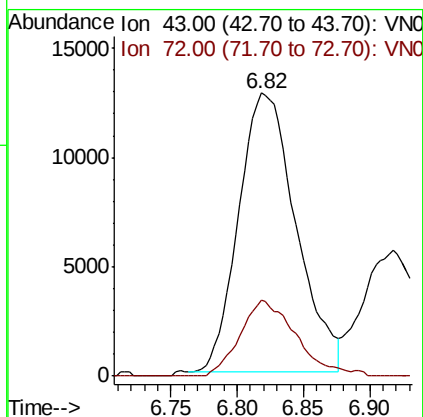
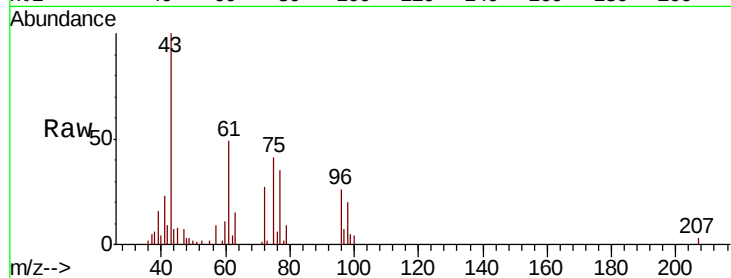




#25
2-Butanone
Concen: 12.119 ug/l
RT: 6.82 min Scan# 1569
Delta R.T. 0.01 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

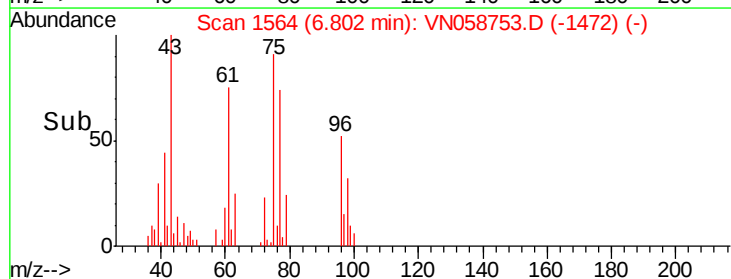
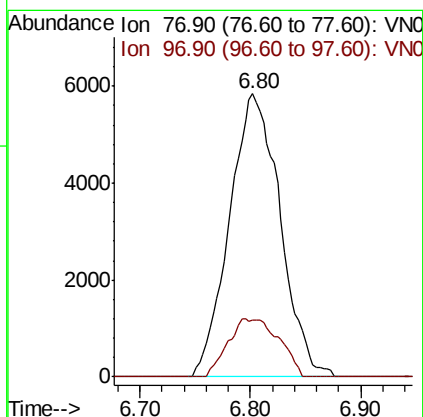
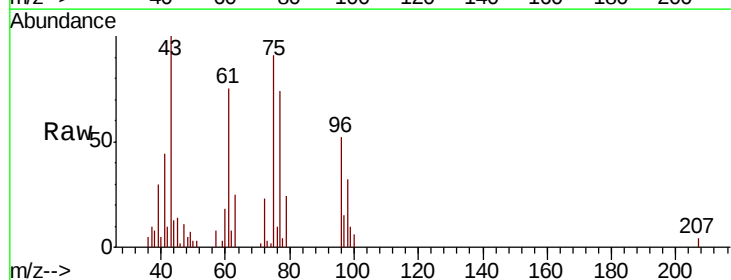
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

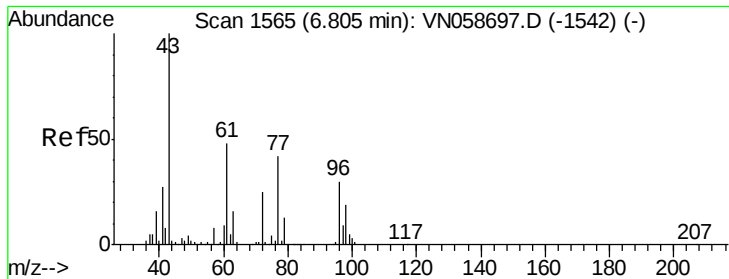
Tot Ion: 43 Resp: 38418
Ion Ratio Lower Upper
43 100
72 27.3 20.2 30.2



#26
2,2-Dichloropropane
Concen: 2.508 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Tgt Ion: 77 Resp: 18595
Ion Ratio Lower Upper
77 100
97 9.1 10.7 31.9#





#27

cis-1,2-Dichloroethene

Concen: 2.629 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

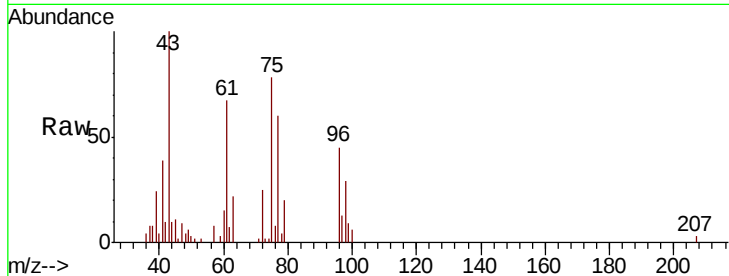
Tot Ion: 96 Resp: 12462

Ion Ratio Lower Upper

96 100

61 161.4 0.0 324.8

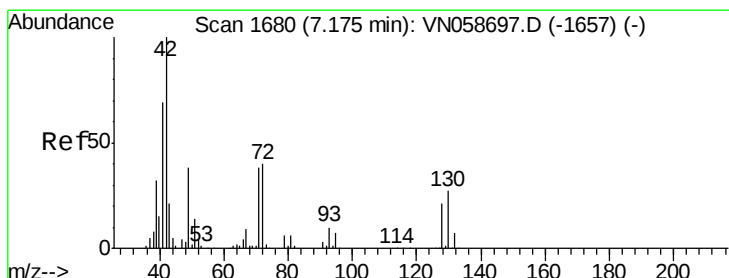
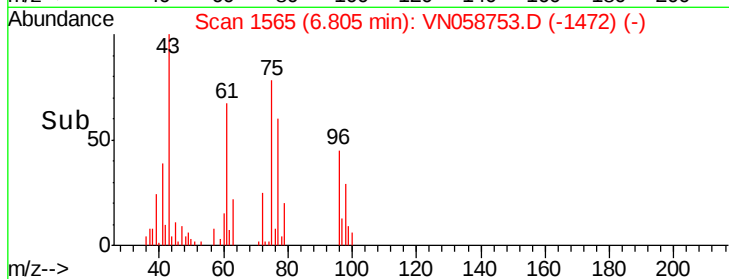
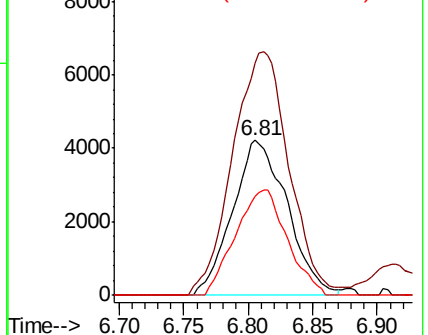
98 64.1 0.0 129.2



Abundance Ion 95.90 (95.60 to 96.60): VN058753.D (-1472) (-)

Ion 60.90 (60.60 to 61.60): VN058753.D (-1472) (-)

Ion 97.90 (97.60 to 98.60): VN058753.D (-1472) (-)



#28

Bromochloromethane

Concen: 2.588 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

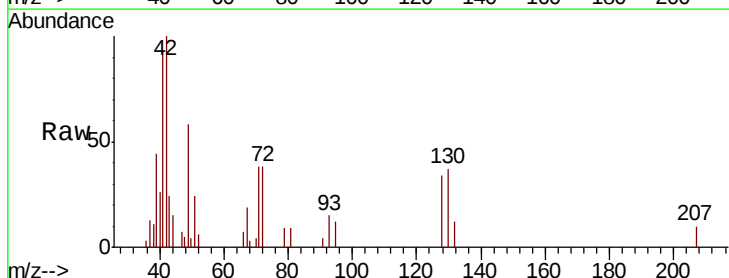
Tgt Ion: 49 Resp: 7312

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

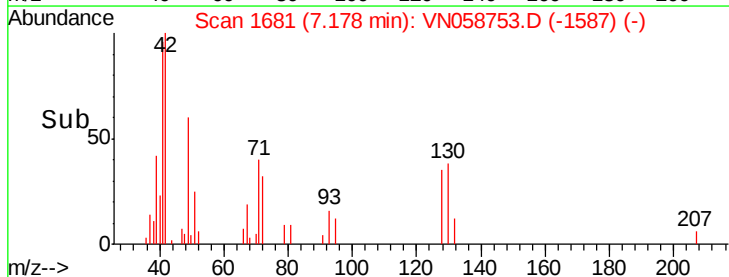
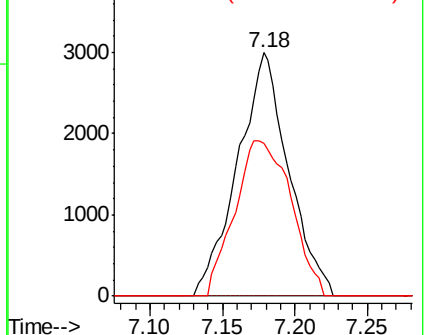
130 70.4 55.0 82.4

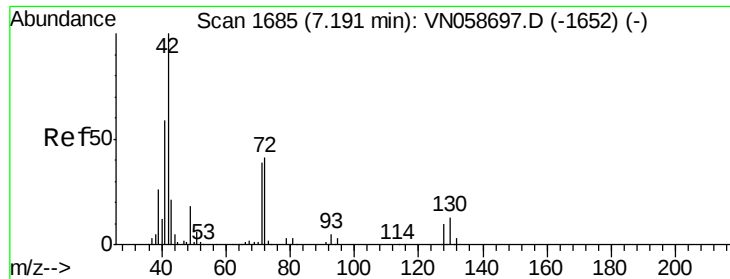


Abundance Ion 48.90 (48.60 to 49.60): VN058753.D (-1587) (-)

Ion 128.80 (128.50 to 129.50): VN058753.D (-1587) (-)

Ion 129.80 (129.50 to 130.50): VN058753.D (-1587) (-)

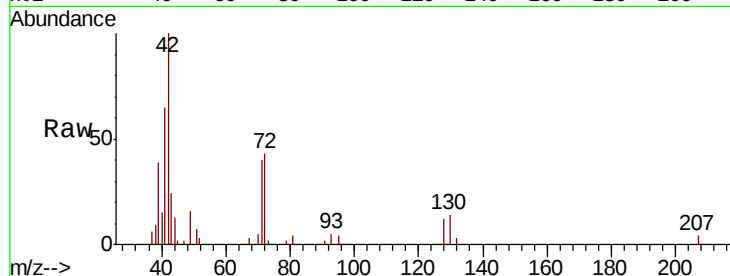




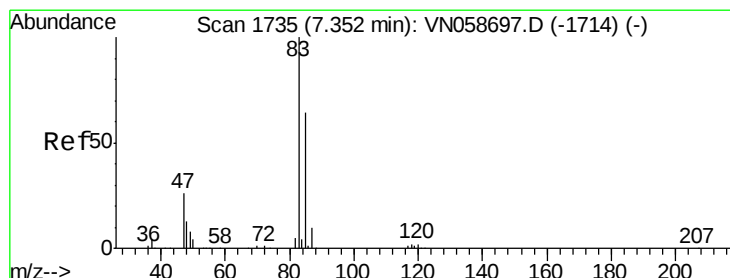
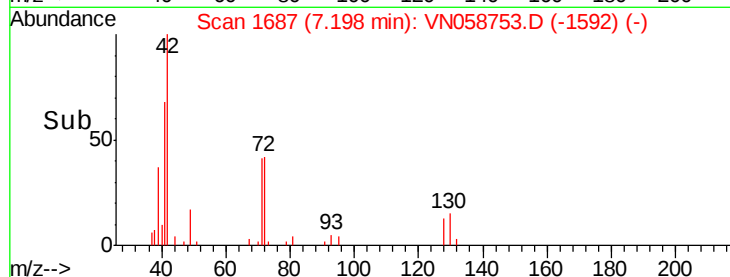
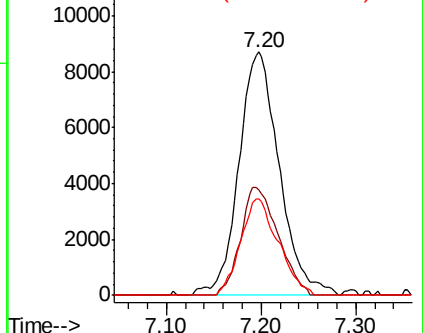
#29
Tetrahydrofuran
Concen: 12.631 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.01 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.0	32.8	49.2
71	36.8	31.1	46.7

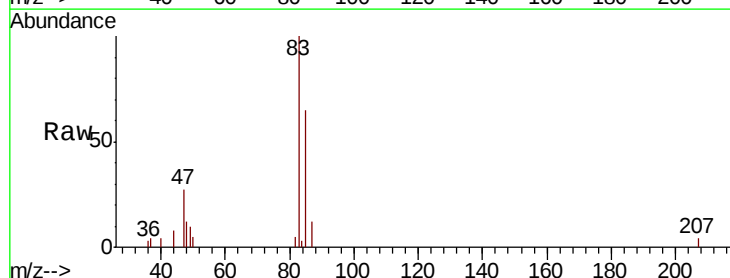


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

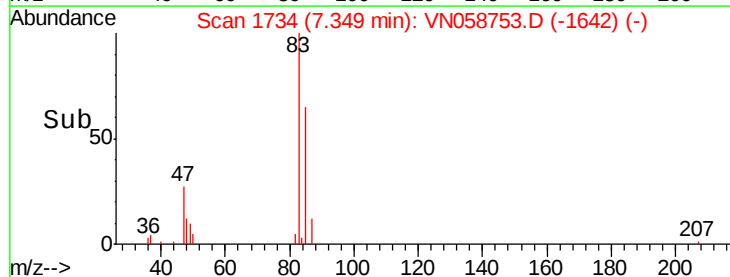
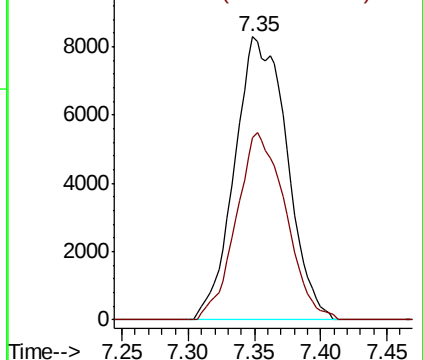


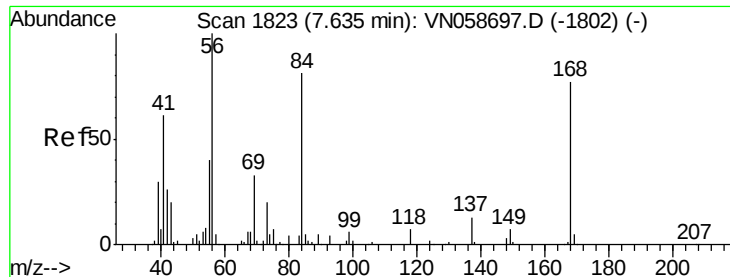
#30
Chloroform
Concen: 2.793 ug/l
RT: 7.35 min Scan# 1734
Delta R.T. -0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.0	76.6



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

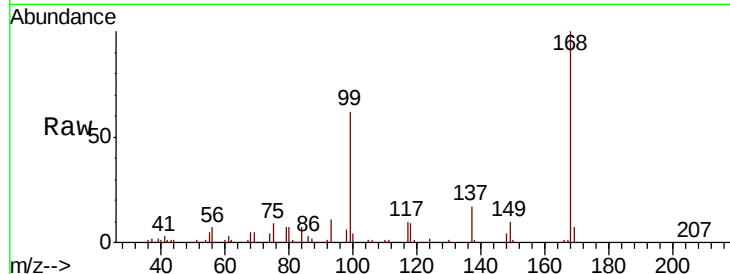




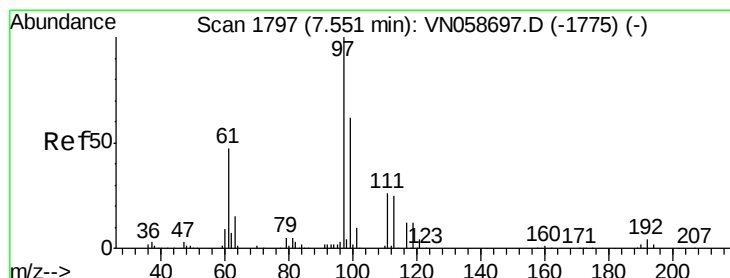
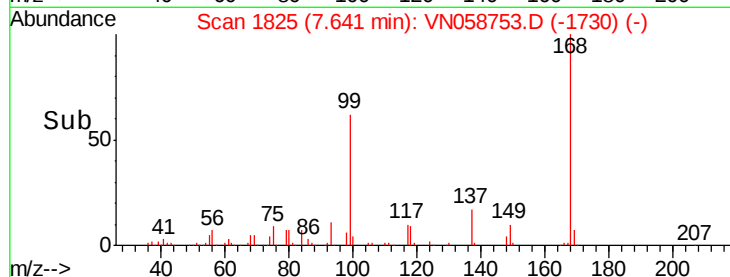
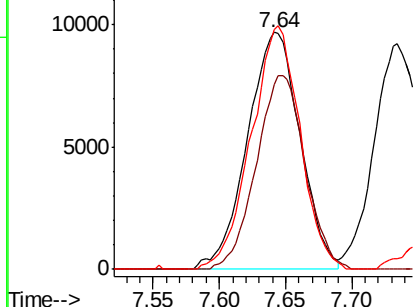
#31
Cyclohexane
Concen: 3.463 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 56 Resp: 26907
Ion Ratio Lower Upper
56 100
69 78.1 26.2 39.4#
84 101.3 64.9 97.3#

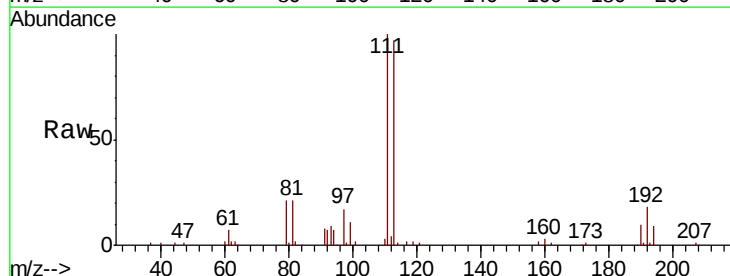


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

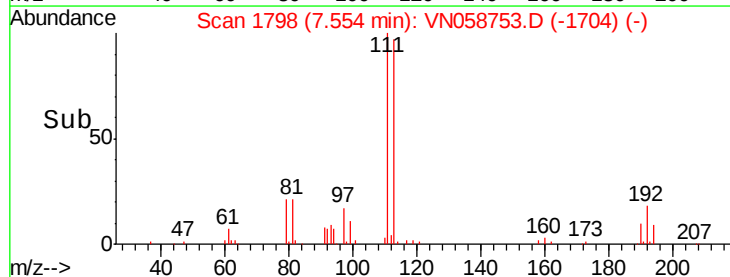
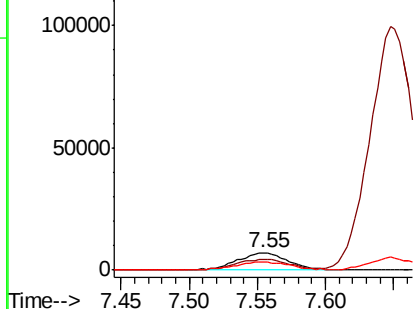


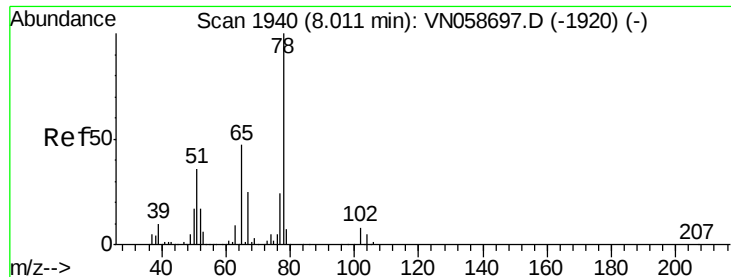
#32
1,1,1-Trichloroethane
Concen: 2.644 ug/l
RT: 7.55 min Scan# 1798
Delta R.T. 0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Tgt Ion: 97 Resp: 18399
Ion Ratio Lower Upper
97 100
99 67.3 50.8 76.2
61 49.0 38.1 57.1



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

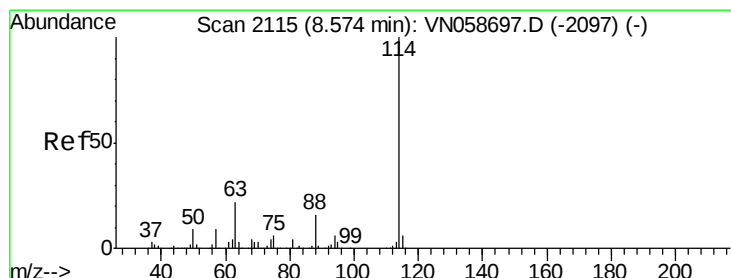
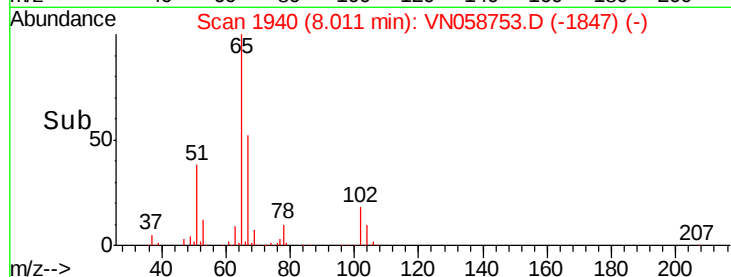
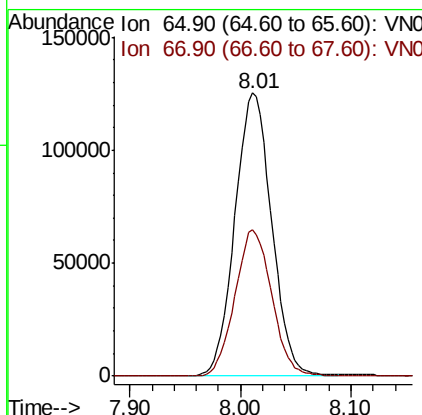
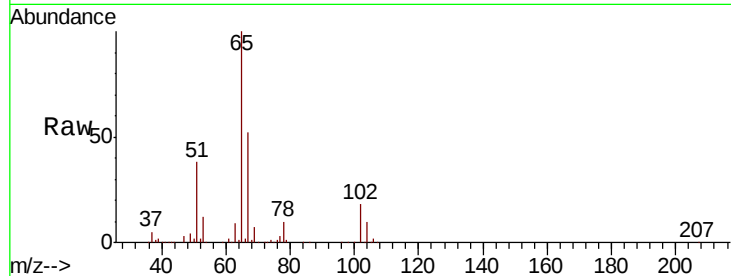




#33
 1,2-Dichloroethane-d4
 Concen: 54.668 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

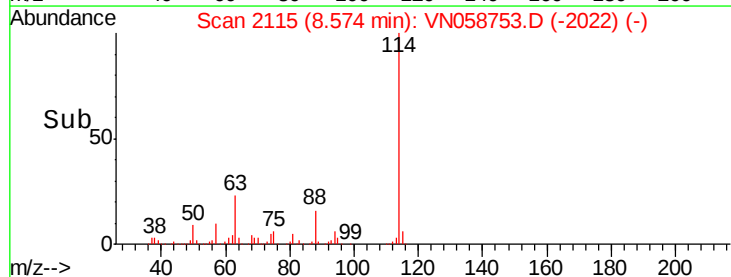
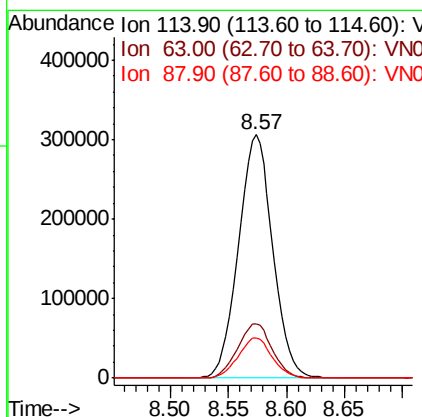
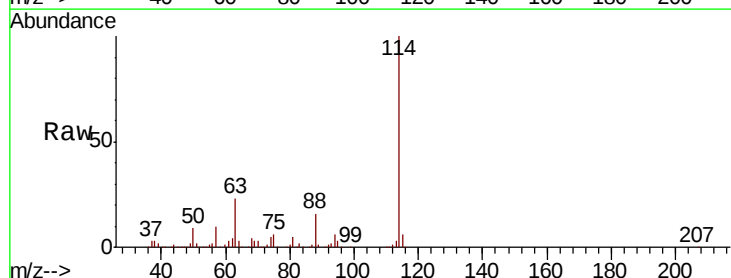
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

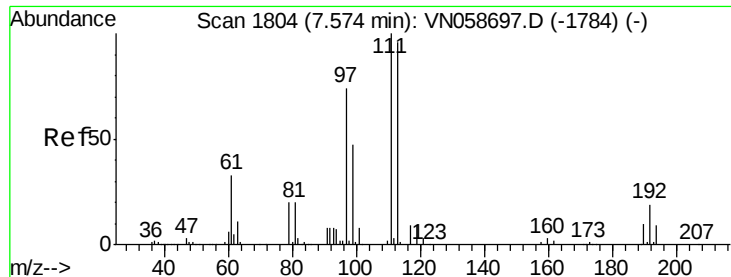
Tot Ion: 65 Resp: 289619
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

Tgt Ion: 114 Resp: 626040
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 43.8
 88 16.4 0.0 32.0

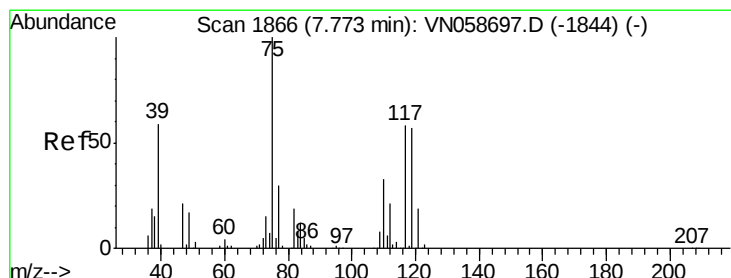
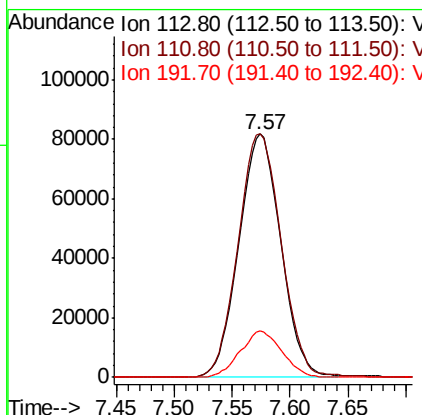
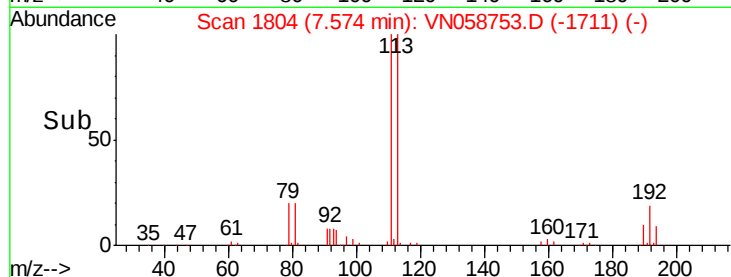
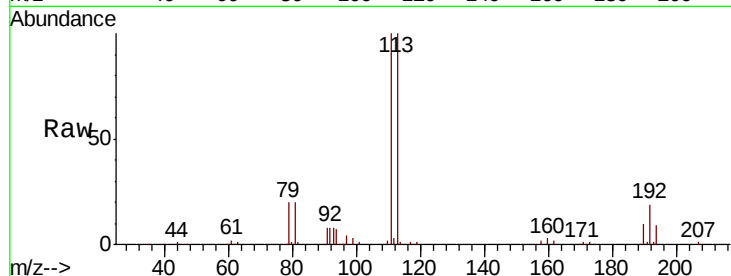




#35
 Dibromofluoromethane
 Concen: 53.151 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

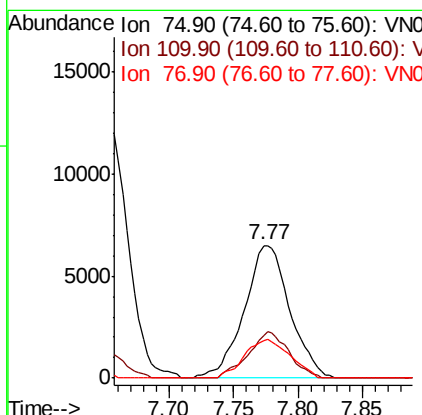
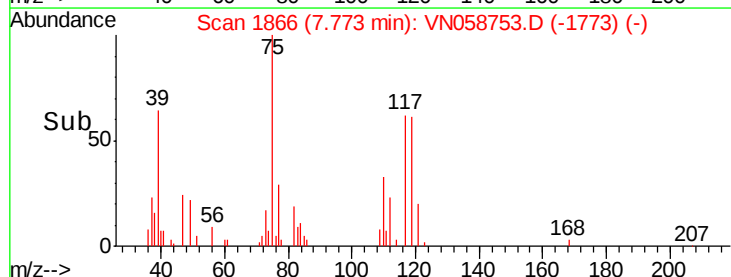
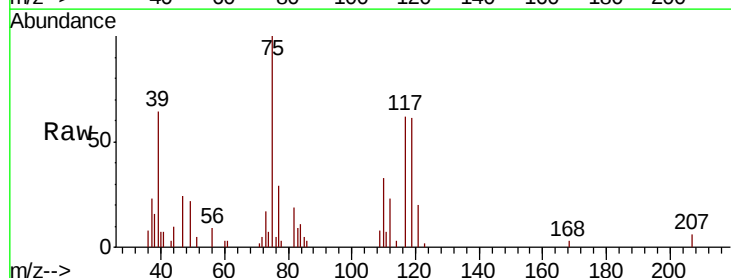
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

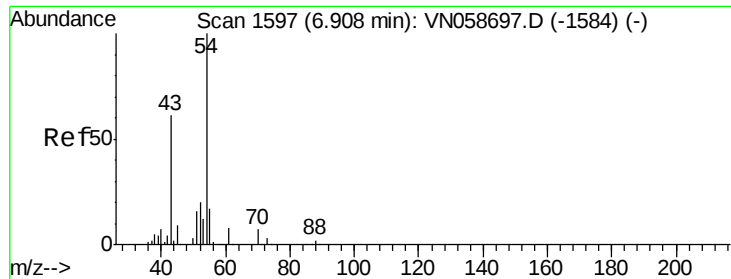
Tot Ion:113 Resp: 205531
 Ion Ratio Lower Upper
 113 100
 111 102.9 82.3 123.5
 192 19.0 15.0 22.6



#36
 1,1-Dichloropropene
 Concen: 2.529 ug/l
 RT: 7.77 min Scan# 1866
 Delta R.T. -0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

Tgt Ion: 75 Resp: 16006
 Ion Ratio Lower Upper
 75 100
 110 31.1 16.6 49.8
 77 28.9 24.6 37.0

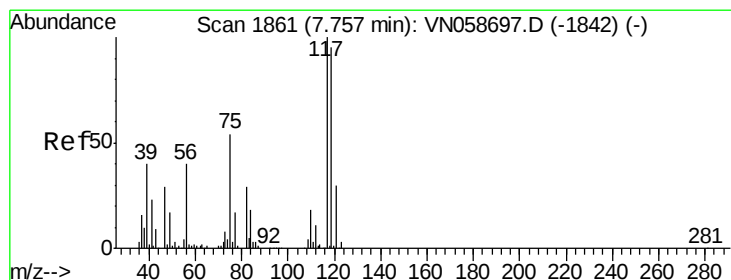
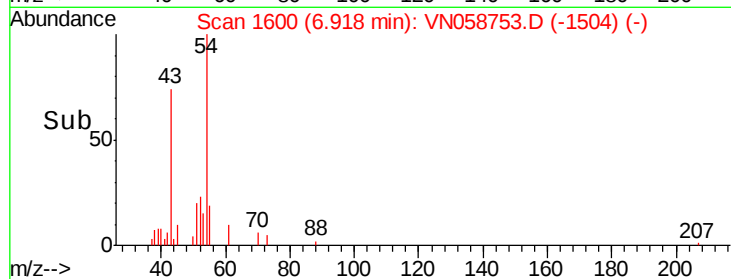
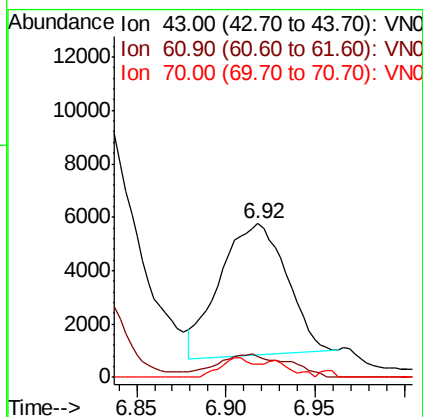
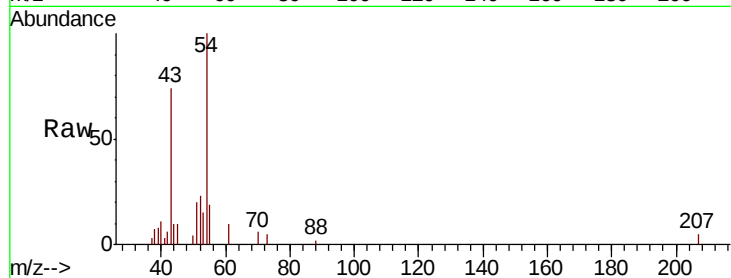




#37
Ethyl Acetate
Concen: 2.016 ug/l
RT: 6.92 min Scan# 1600
Delta R.T. 0.01 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

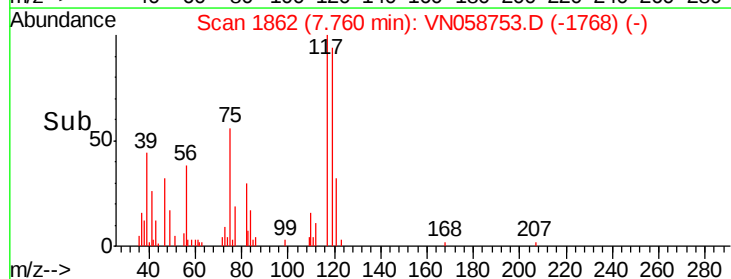
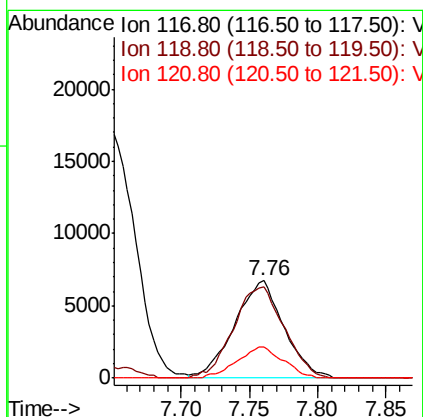
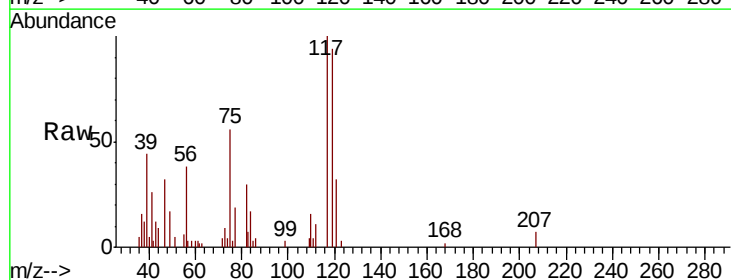
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

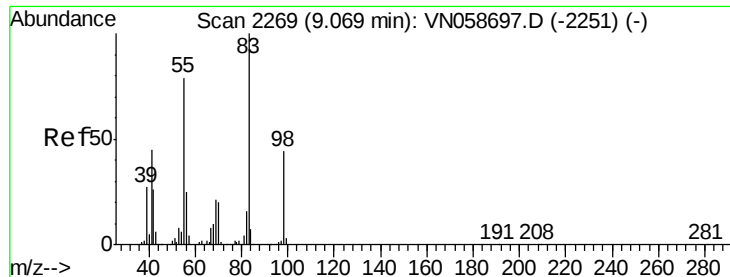
Tot Ion: 43 Resp: 12907
Ion Ratio Lower Upper
43 100
61 19.0 11.3 16.9#
70 7.2 7.2 10.8



#38
Carbon Tetrachloride
Concen: 2.748 ug/l
RT: 7.76 min Scan# 1862
Delta R.T. 0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Tgt Ion: 117 Resp: 16950
Ion Ratio Lower Upper
117 100
119 94.1 75.7 113.5
121 31.8 23.9 35.9

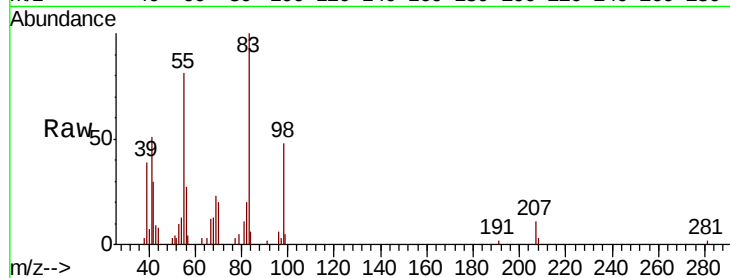




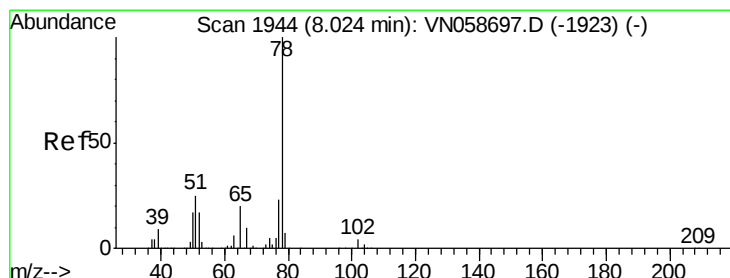
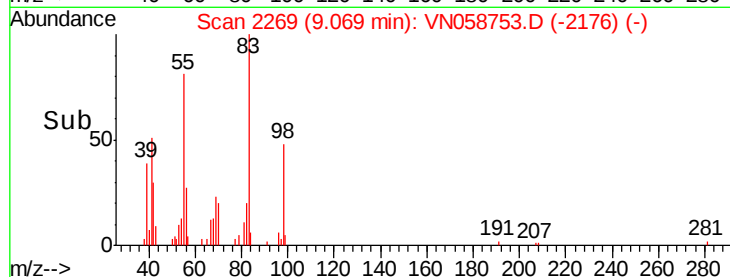
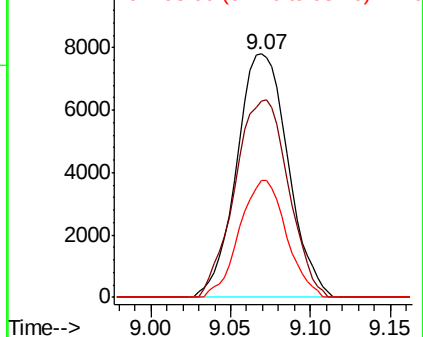
#39
Methvlcvclohexane
Concen: 2.331 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. -0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 83 Resp: 17121
Ion Ratio Lower Upper
83 100
55 80.6 63.4 95.0
98 48.2 35.1 52.7

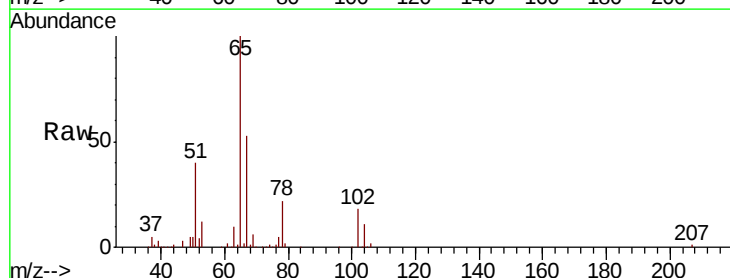


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

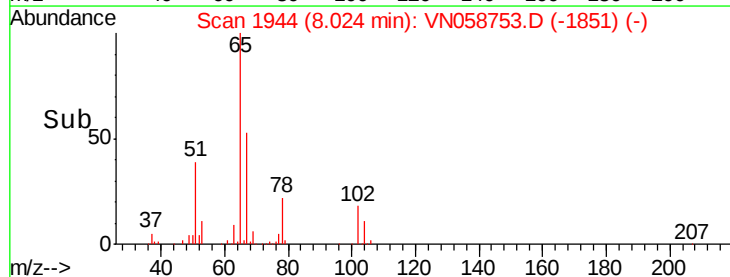
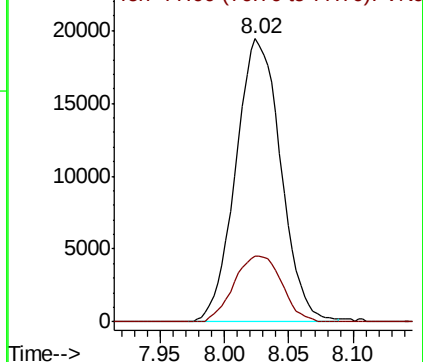


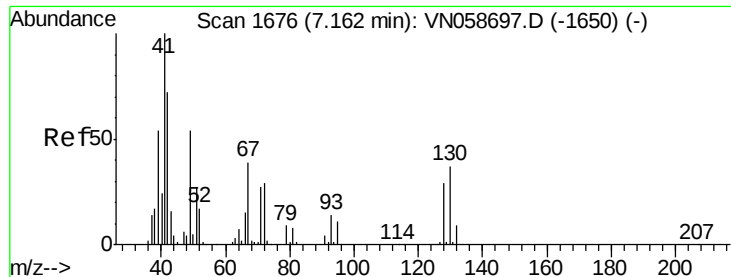
#40
Benzene
Concen: 2.604 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. -0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Tgt Ion: 78 Resp: 47344
Ion Ratio Lower Upper
78 100
77 23.3 18.8 28.2



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

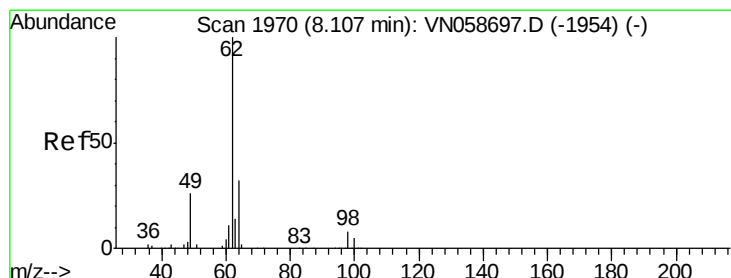
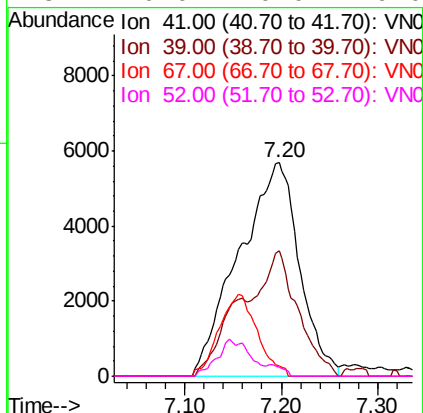
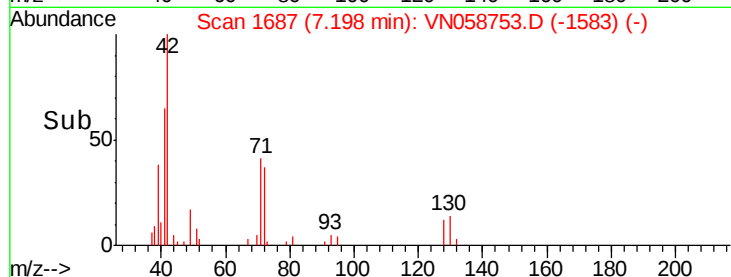
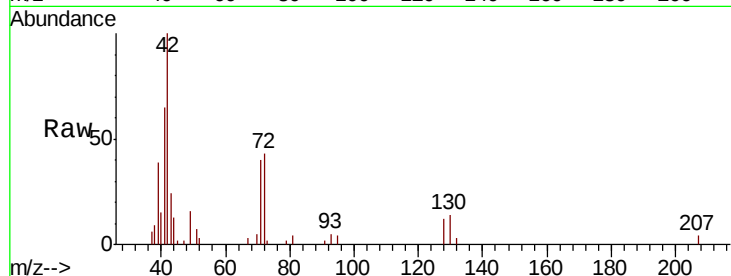




#41
Methacrylonitrile
Concen: 8.217 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.04 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

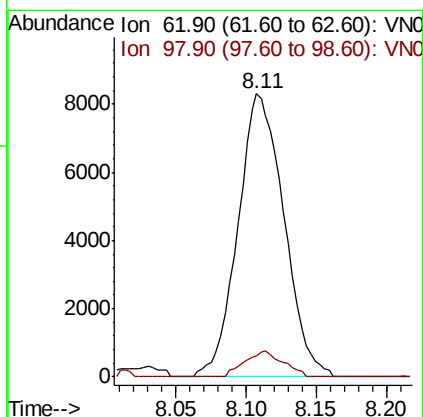
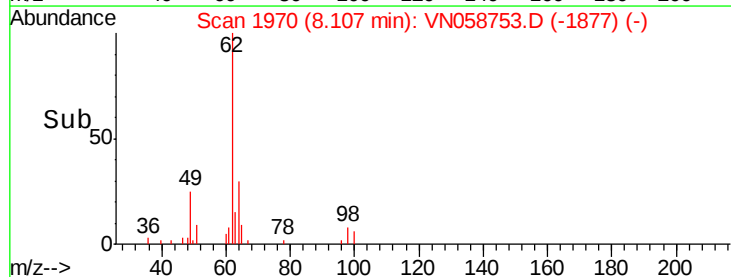
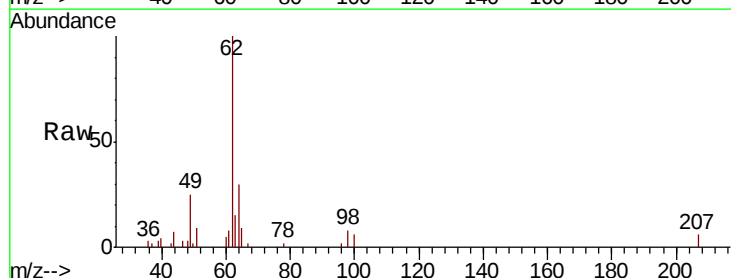
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

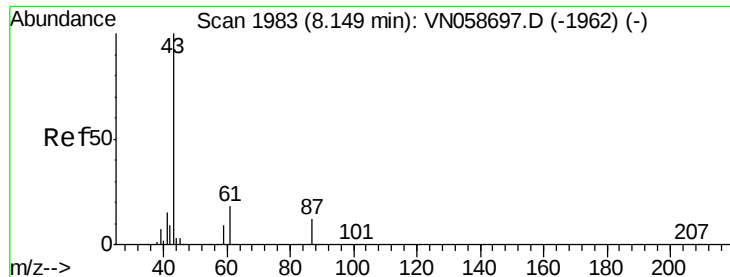
Tot Ion: 41 Resp: 24623
Ion Ratio Lower Upper
41 100
39 27.5 115.4 173.2#
67 0.0 0.0 0.0
52 0.0 0.0 0.0



#42
1,2-Dichloroethane
Concen: 2.707 ug/l
RT: 8.11 min Scan# 1970
Delta R.T. -0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Tgt Ion: 62 Resp: 18908
Ion Ratio Lower Upper
62 100
98 7.6 0.0 15.8





#43

Isopropyl Acetate

Concen: 2.654 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

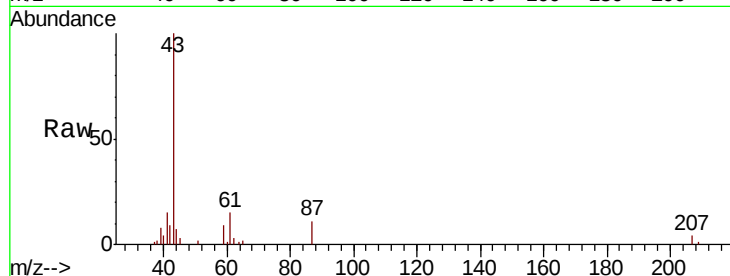
Tot Ion: 43 Resp: 28939

Ion Ratio Lower Upper

43 100

61 23.7 20.3 30.5

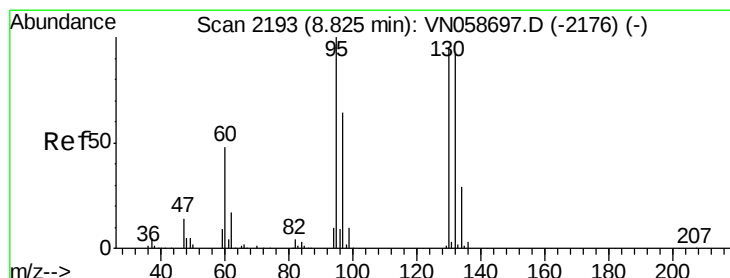
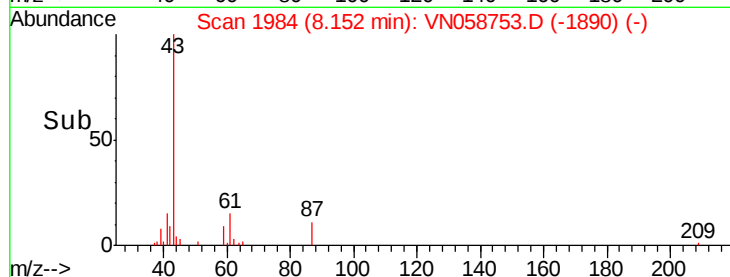
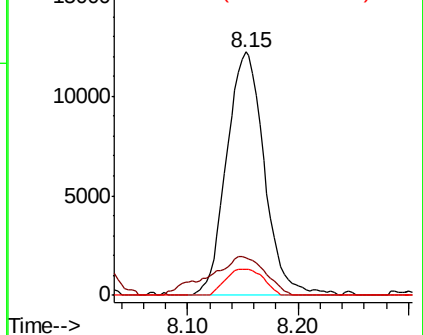
87 10.8 9.8 14.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#44

Trichloroethene

Concen: 2.684 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VN058753.D

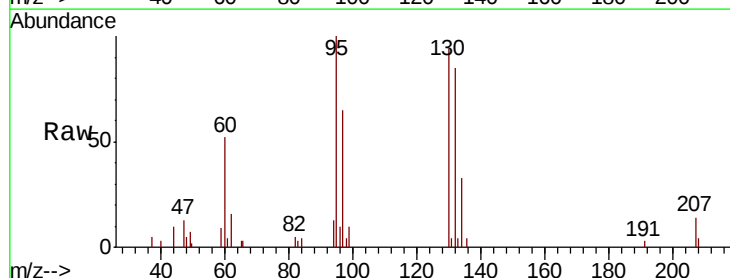
Acq: 14 Oct 2019 16:55

Tgt Ion:130 Resp: 12117

Ion Ratio Lower Upper

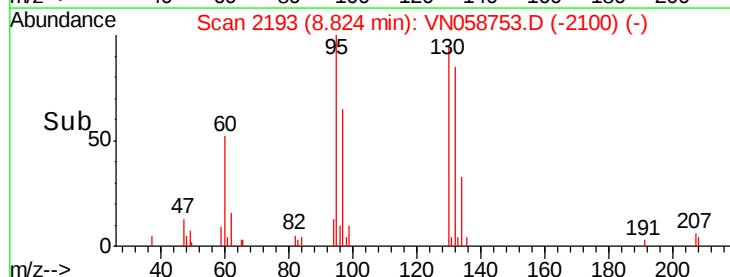
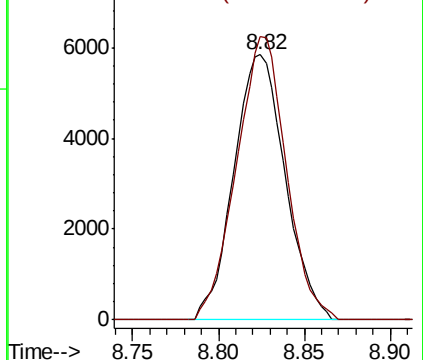
130 100

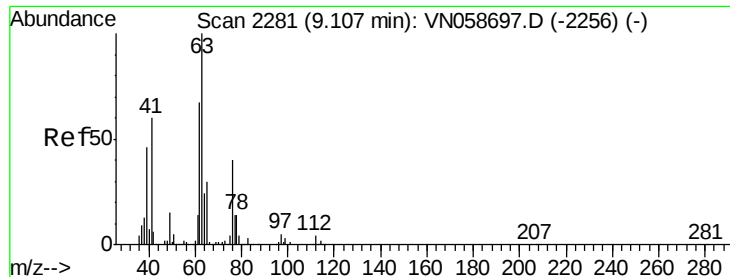
95 106.8 0.0 211.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0

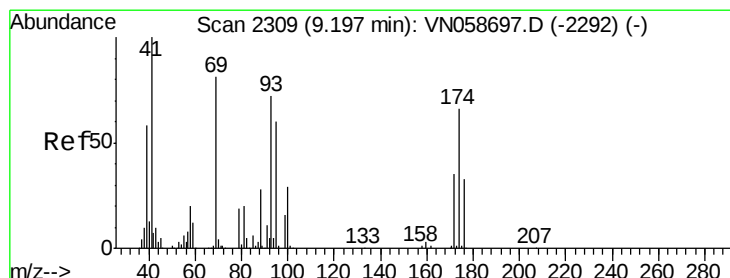
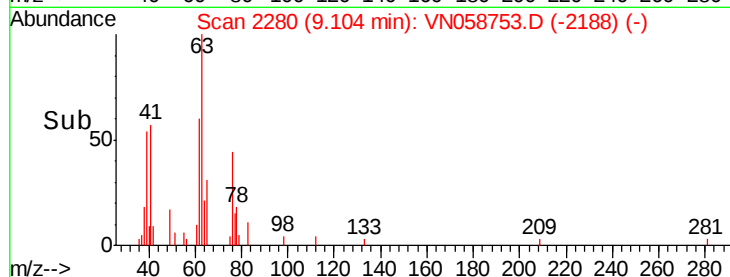
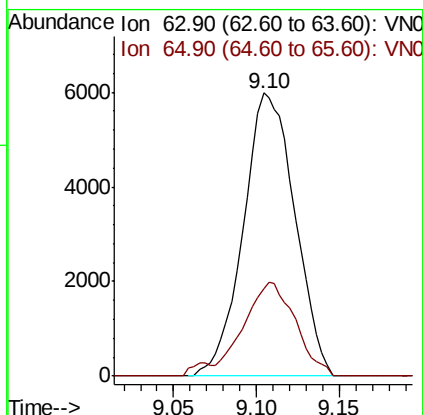
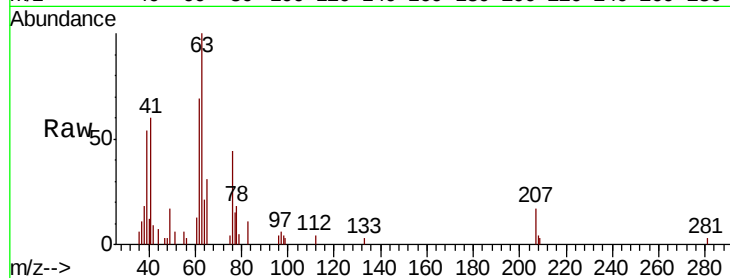




#45
 1,2-Dichloropropane
 Concen: 2.656 ug/l
 RT: 9.10 min Scan# 2280
 Delta R.T. -0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

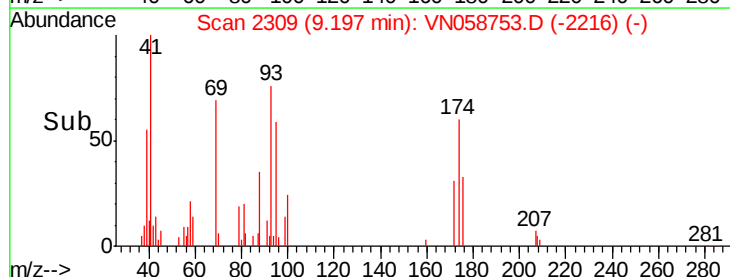
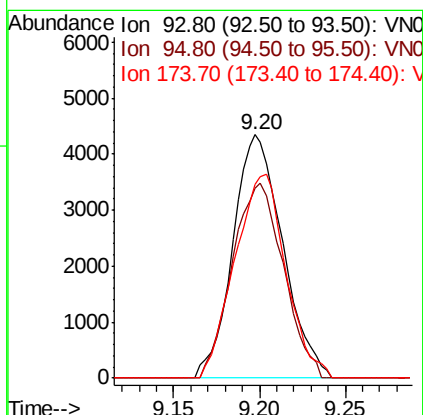
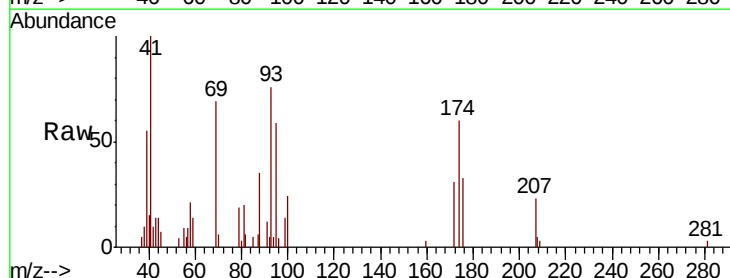
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

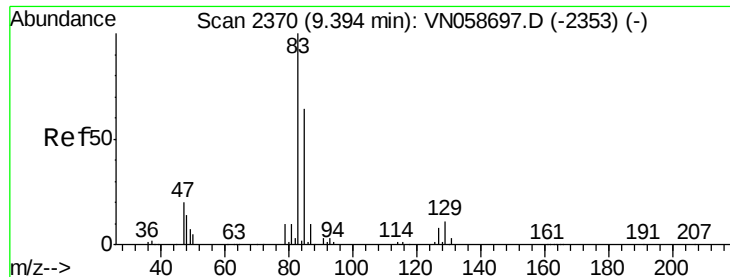
Tot Ion: 63 Resp: 12926
 Ion Ratio Lower Upper
 63 100
 65 30.8 24.1 36.1



#46
 Dibromomethane
 Concen: 2.841 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. -0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

Tgt Ion: 93 Resp: 8766
 Ion Ratio Lower Upper
 93 100
 95 82.2 66.6 100.0
 174 86.1 75.2 112.8





#47

Bromodichloromethane

Concen: 2.735 ug/l

RT: 9.40 min Scan# 2371

Delta R.T. 0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

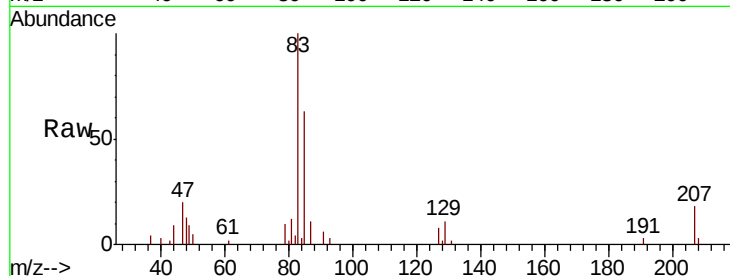
Tot Ion: 83 Resp: 17182

Ion Ratio Lower Upper

83 100

85 62.8 50.9 76.3

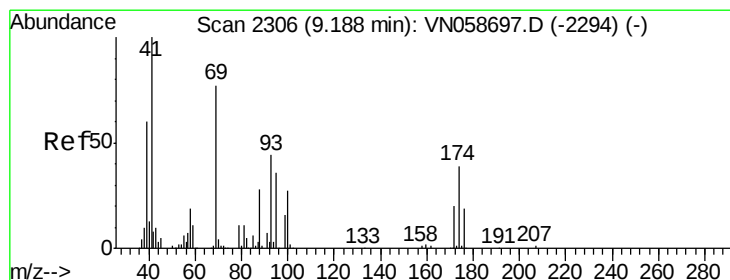
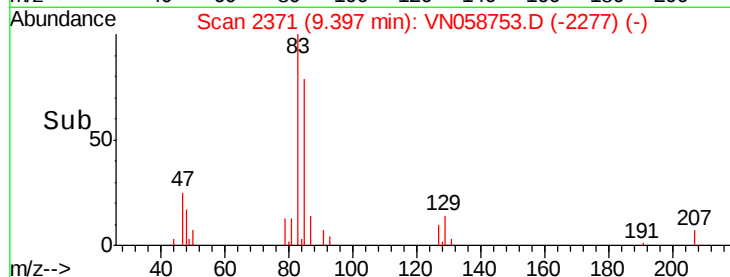
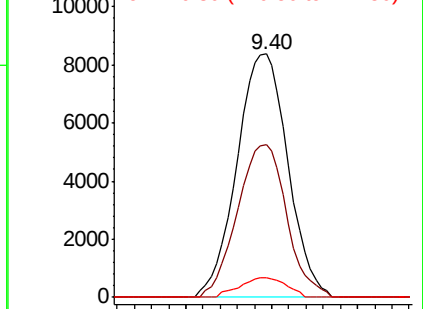
127 8.0 6.3 9.5



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 126.80 (126.50 to 127.50): VN0



#48

Methyl methacrylate

Concen: 2.433 ug/l

RT: 9.19 min Scan# 2308

Delta R.T. 0.01 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

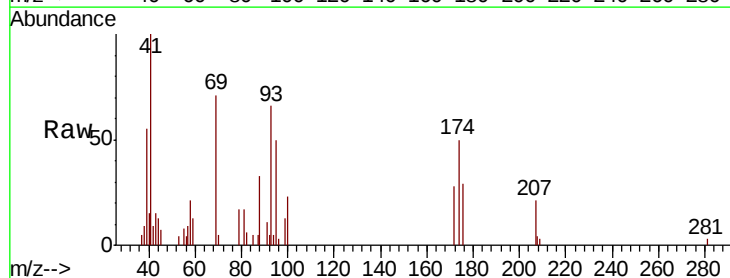
Tgt Ion: 41 Resp: 12028

Ion Ratio Lower Upper

41 100

69 74.5 63.4 95.2

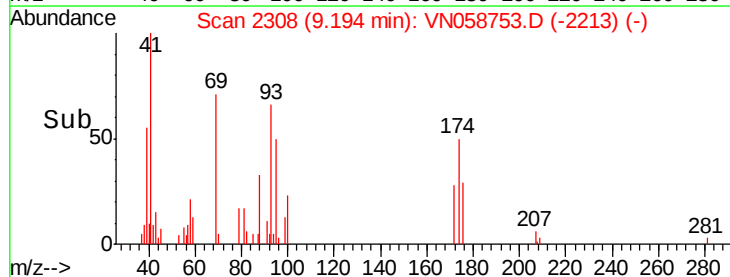
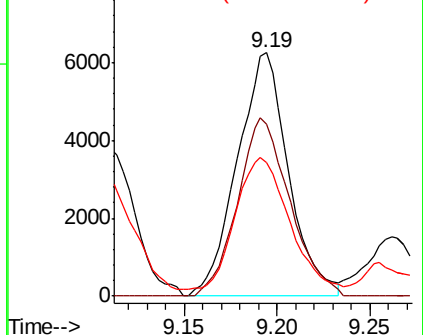
39 62.8 48.9 73.3

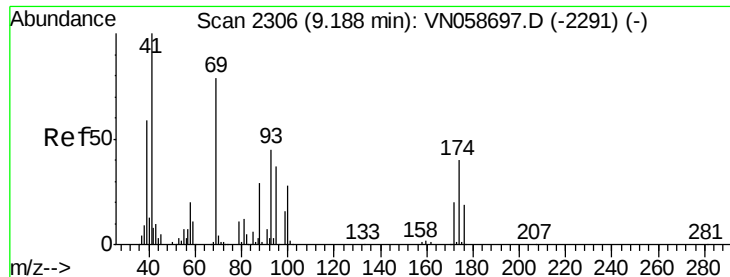


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 59.785 ug/l

RT: 9.19 min Scan# 2307

Delta R.T. 0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

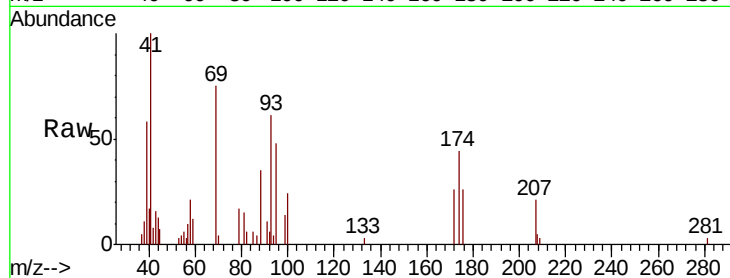
Tot Ion: 88 Resp: 4572

Ion Ratio Lower Upper

88 100

43 43.0 28.6 43.0#

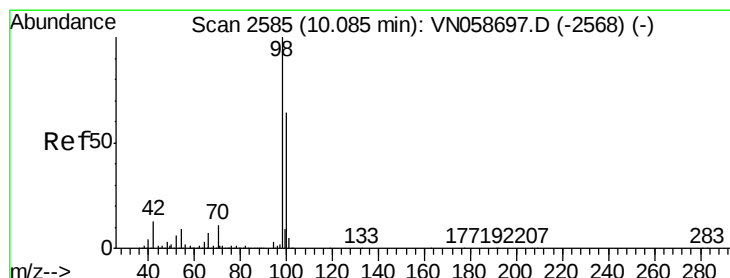
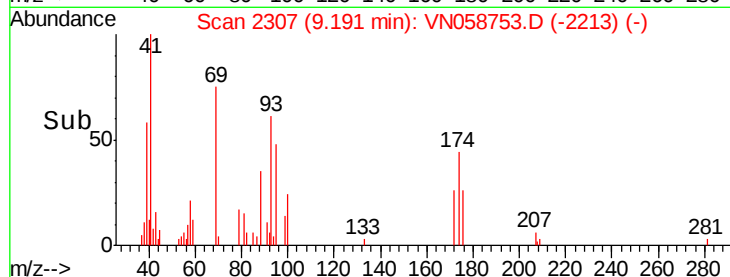
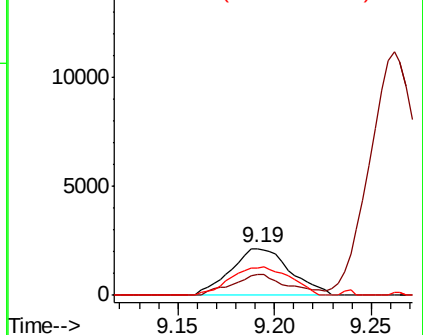
58 61.7 57.2 85.8



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 49.817 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058753.D

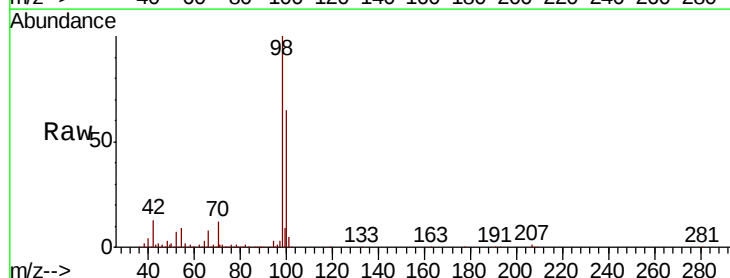
Acq: 14 Oct 2019 16:55

Tgt Ion: 98 Resp: 770336

Ion Ratio Lower Upper

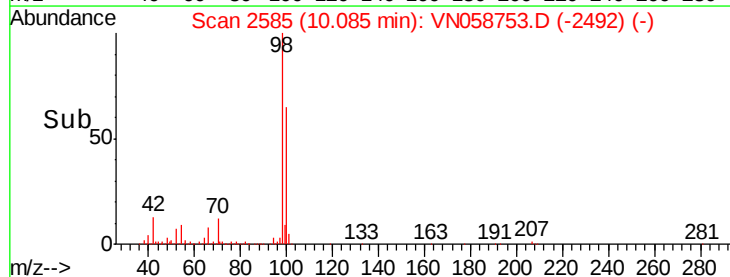
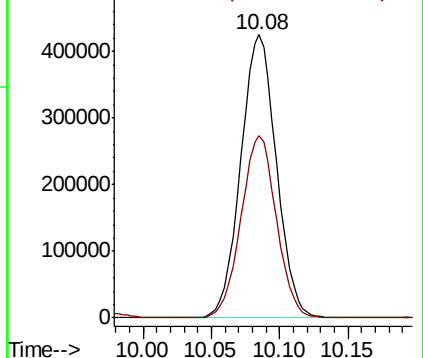
98 100

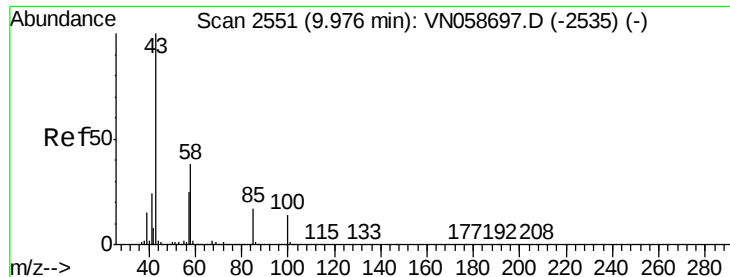
100 63.9 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 12.796 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

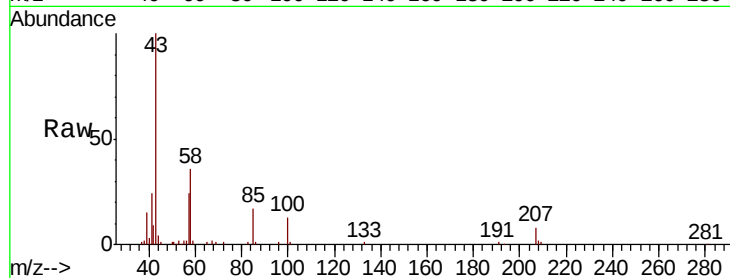
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 43 Resp: 78371

Ion Ratio Lower Upper

43 100

58 35.2 30.3 45.5



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

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

9.98

40000

30000

20000

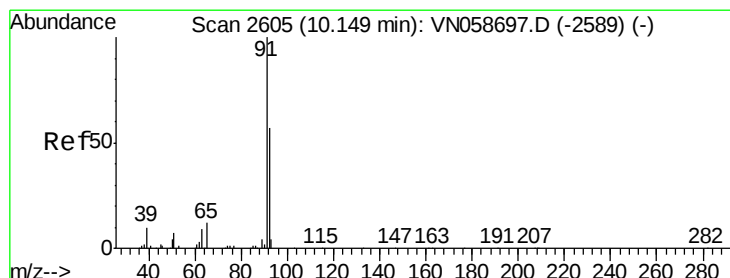
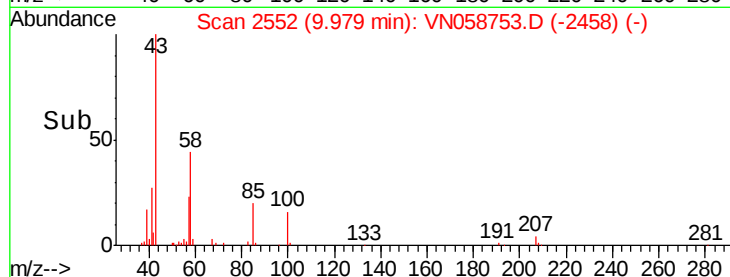
10000

0

9.90

10.00

Time-->



#52

Toluene

Concen: 2.615 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. -0.00 min

Lab File: VN058753.D

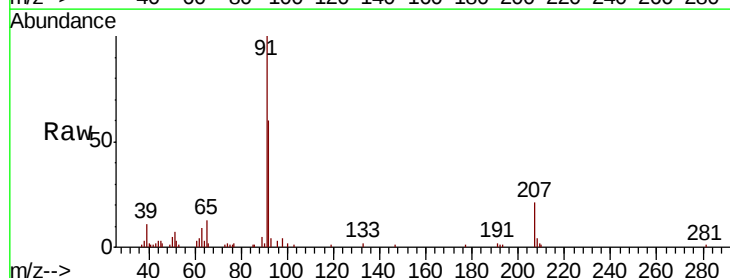
Acq: 14 Oct 2019 16:55

Tgt Ion: 92 Resp: 29073

Ion Ratio Lower Upper

92 100

91 169.4 139.1 208.7



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

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

10.15

30000

25000

20000

15000

10000

5000

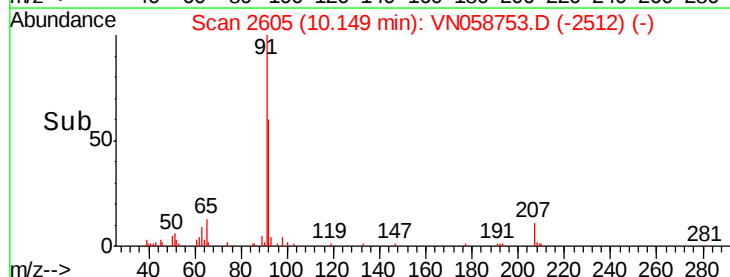
0

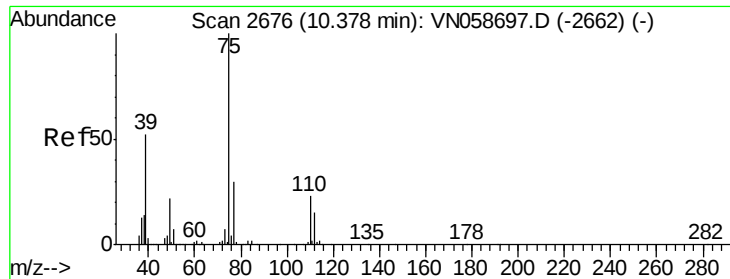
10.10

10.15

10.20

Time-->





#53

t-1,3-Dichloropropene

Concen: 2.402 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

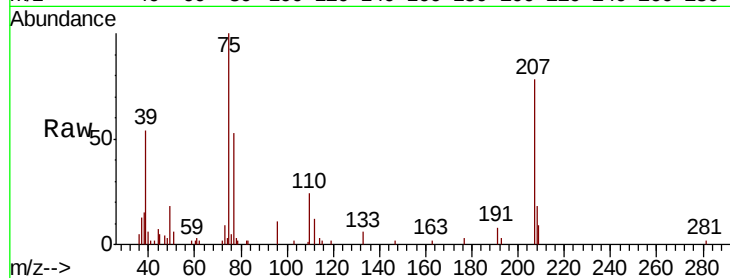
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 75 Resp: 17309

Ion Ratio Lower Upper

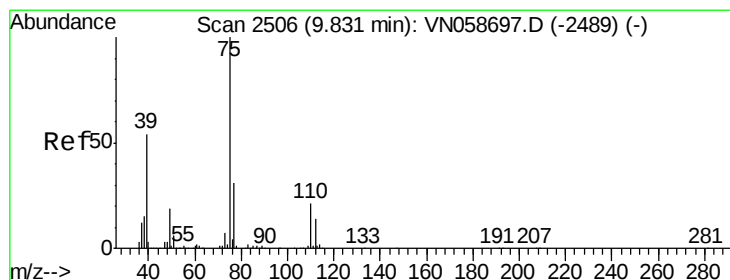
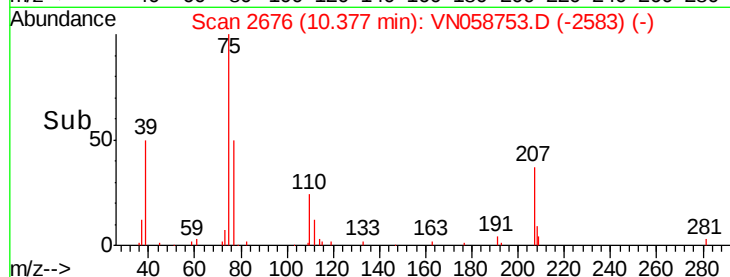
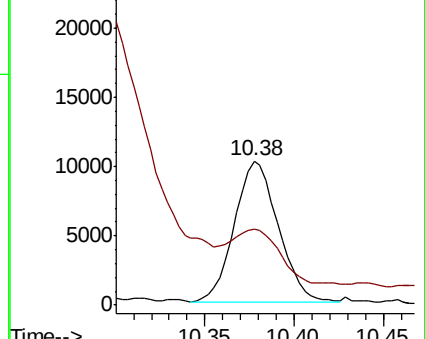
75 100

77 39.2 26.2 39.4



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#54

cis-1,3-Dichloropropene

Concen: 2.412 ug/l

RT: 9.83 min Scan# 2507

Delta R.T. 0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

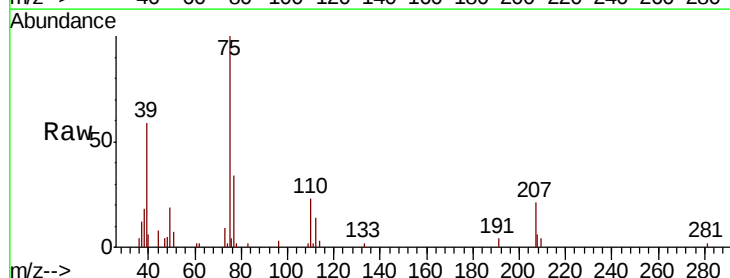
Tgt Ion: 75 Resp: 18457

Ion Ratio Lower Upper

75 100

77 33.6 24.4 36.6

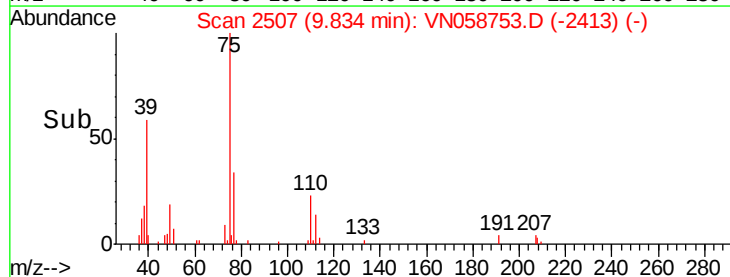
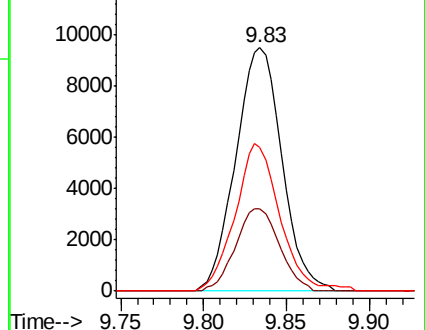
39 59.3 43.1 64.7

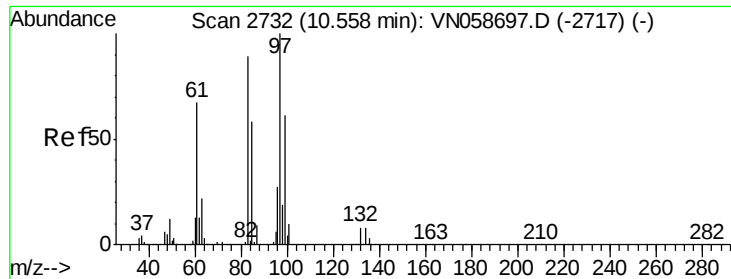


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

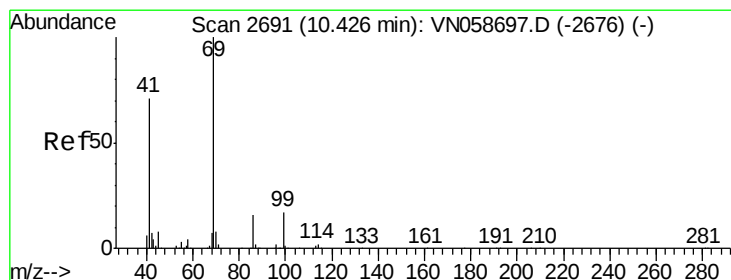
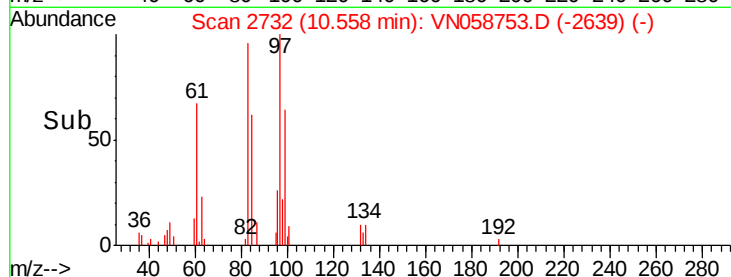
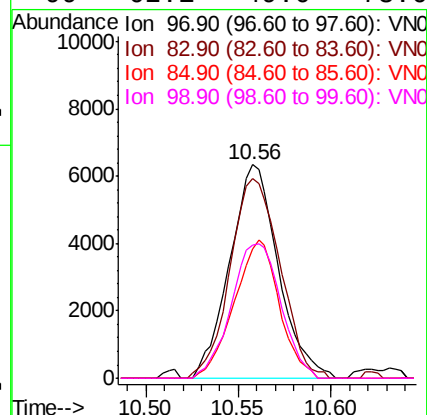
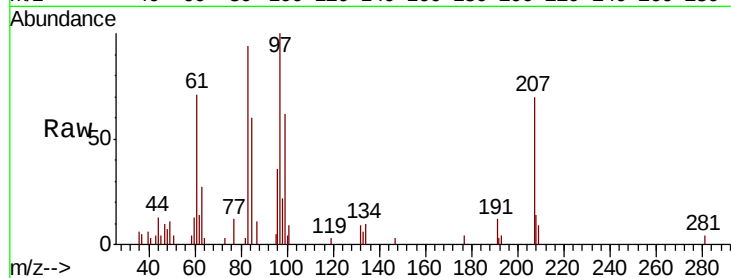




#55
 1,1,2-Trichloroethane
 Concen: 2.528 ug/l
 RT: 10.56 min Scan# 2732
 Delta R.T. -0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

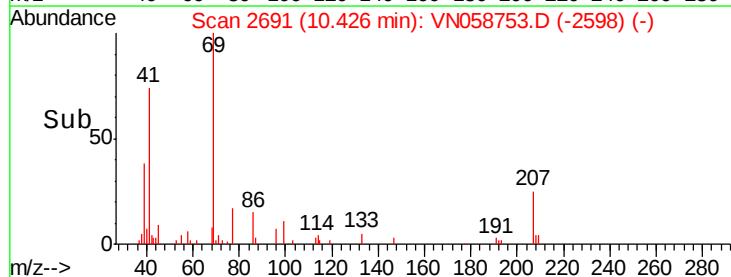
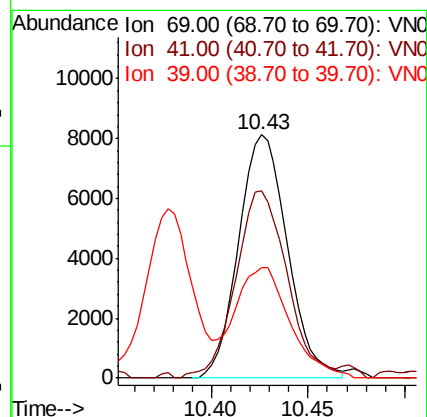
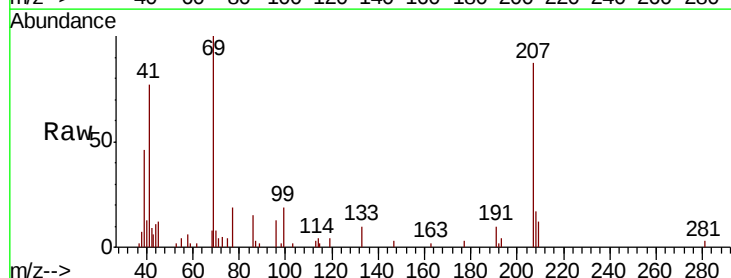
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

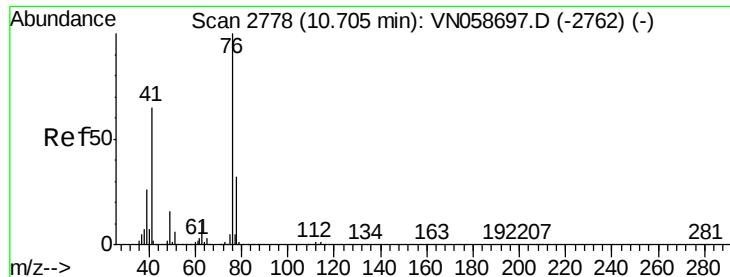
Tot Ion: 97 Resp: 11505
 Ion Ratio Lower Upper
 97 100
 83 93.8 71.2 106.8
 85 60.3 46.7 70.1
 99 62.1 49.0 73.6



#56
 Ethyl methacrylate
 Concen: 2.149 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. -0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

Tgt Ion: 69 Resp: 14287
 Ion Ratio Lower Upper
 69 100
 41 81.1 56.8 85.2
 39 50.7 32.5 48.7#





#57

1,3-Dichloropropane

Concen: 2.587 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

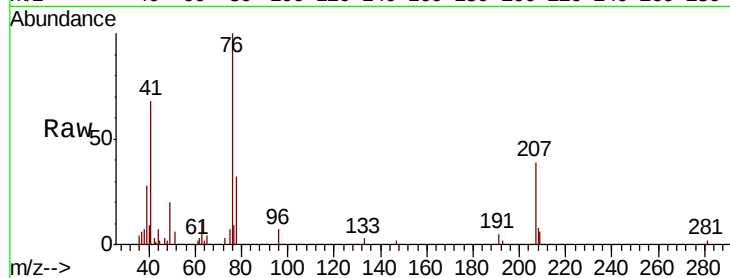
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 76 Resp: 20061

Ion Ratio Lower Upper

76 100

78 33.8 25.9 38.9



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

12000

10000

8000

6000

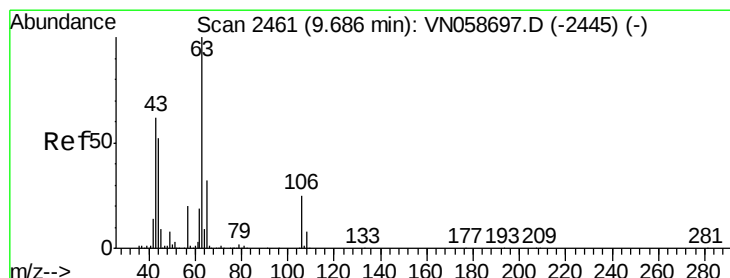
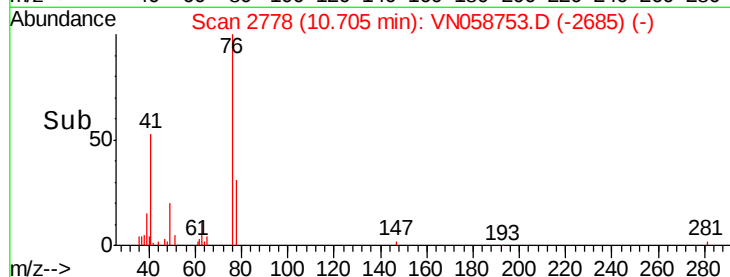
4000

2000

0

10.65 10.70 10.75

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 10.268 ug/l

RT: 9.69 min Scan# 2462

Delta R.T. 0.00 min

Lab File: VN058753.D

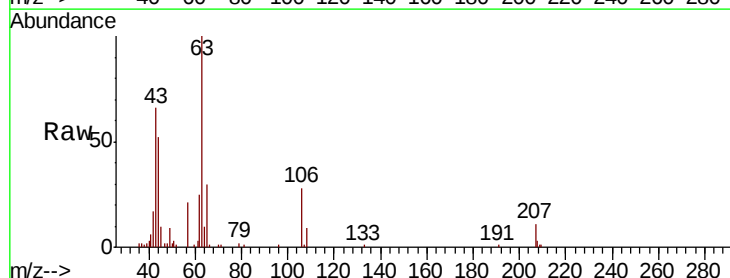
Acq: 14 Oct 2019 16:55

Tgt Ion: 63 Resp: 32899

Ion Ratio Lower Upper

63 100

106 26.3 20.0 30.0



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

20000

15000

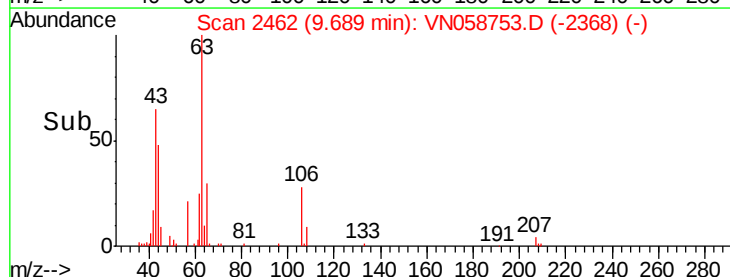
10000

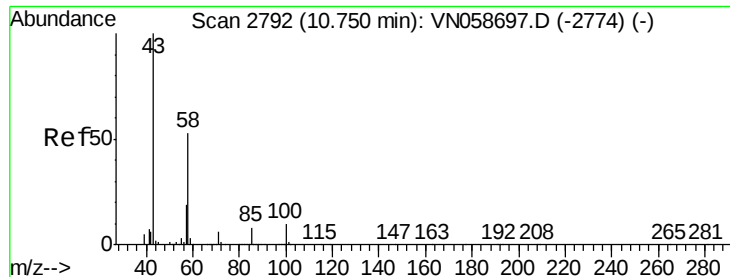
5000

0

9.60 9.65 9.70 9.75

Time-->

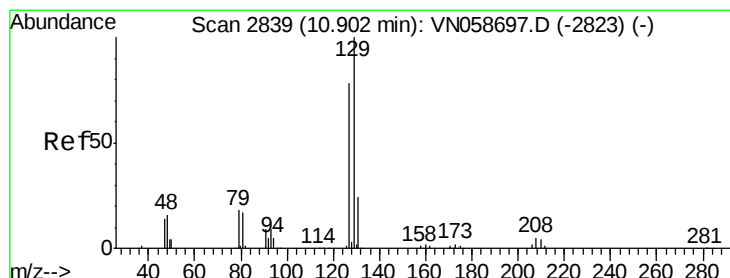
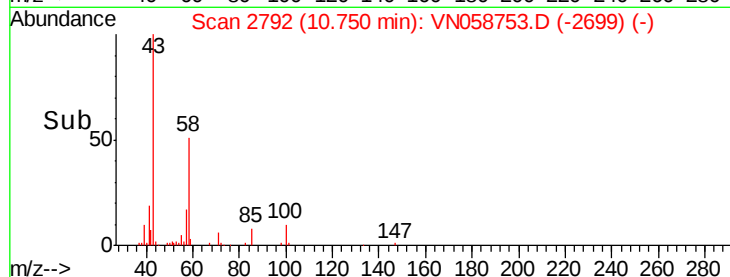
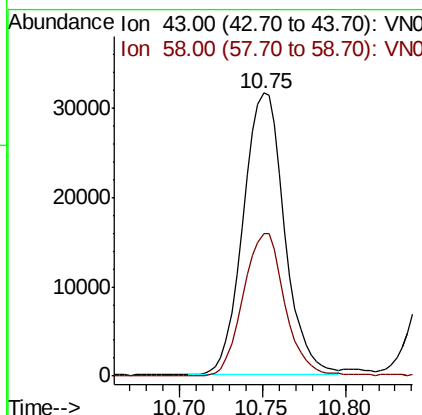
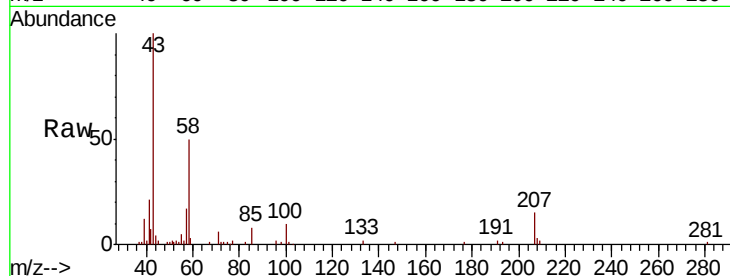




#59
2-Hexanone
Concen: 11.587 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

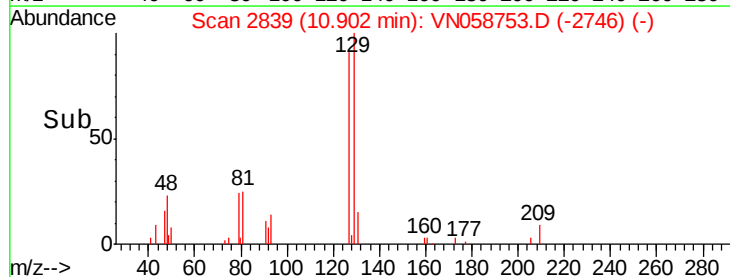
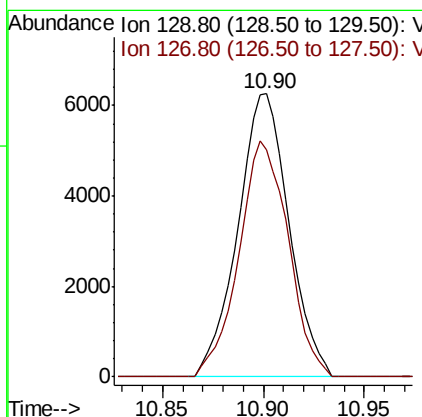
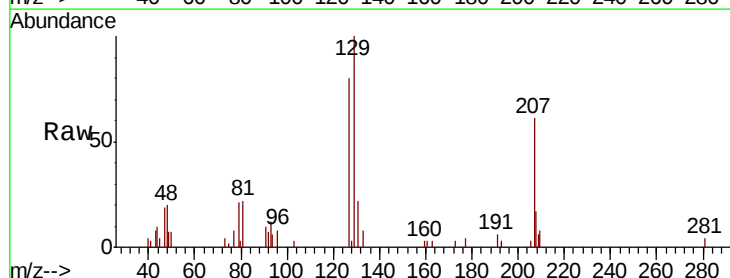
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

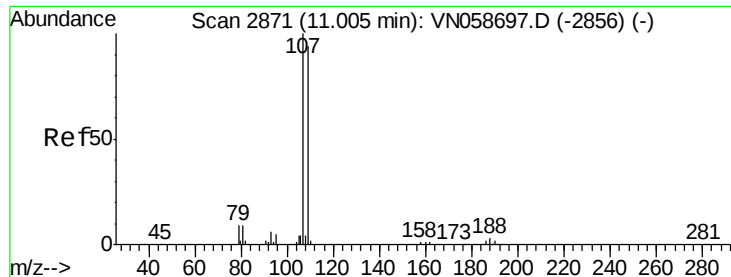
Tot Ion: 43 Resp: 54840
Ion Ratio Lower Upper
43 100
58 51.0 26.1 78.3



#60
Dibromochloromethane
Concen: 2.362 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Tgt Ion: 129 Resp: 11087
Ion Ratio Lower Upper
129 100
127 80.6 38.5 115.3

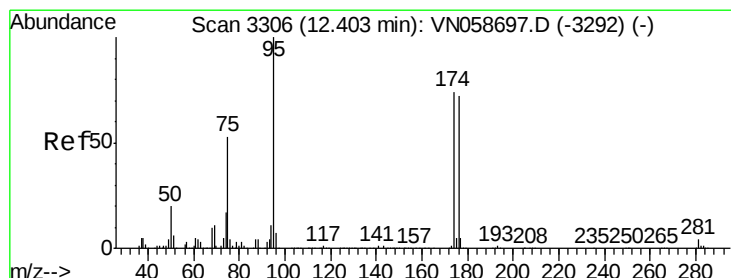
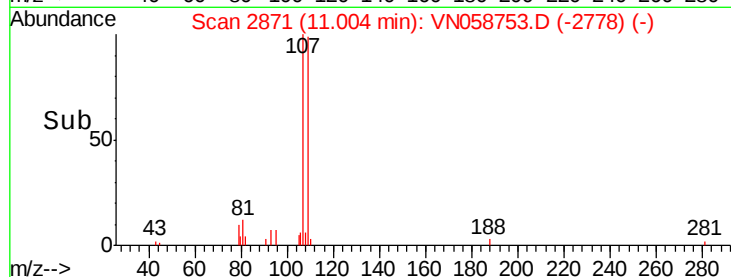
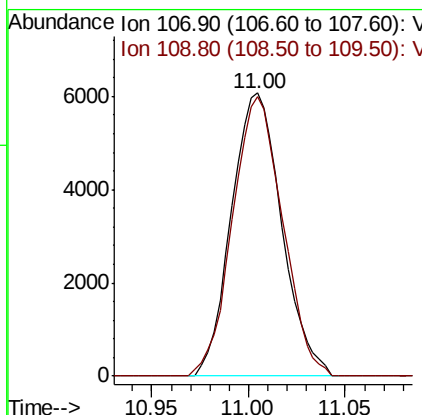
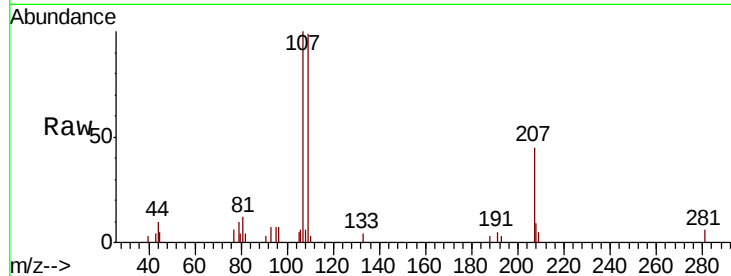




#61
 1,2-Dibromoethane
 Concen: 2.410 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

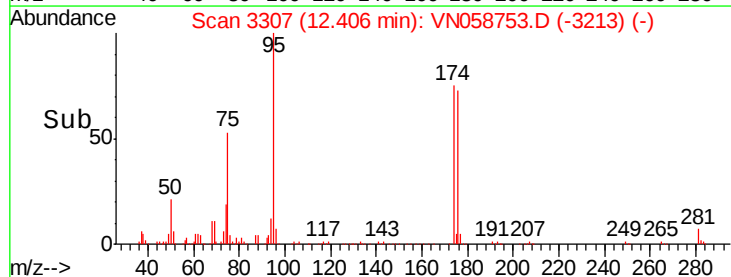
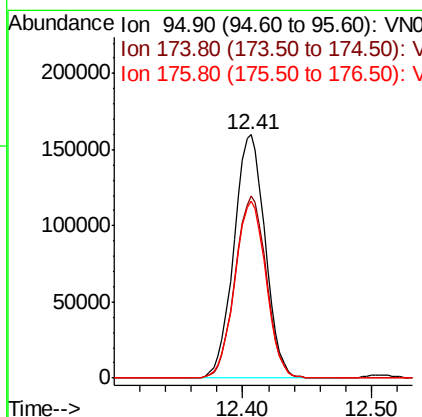
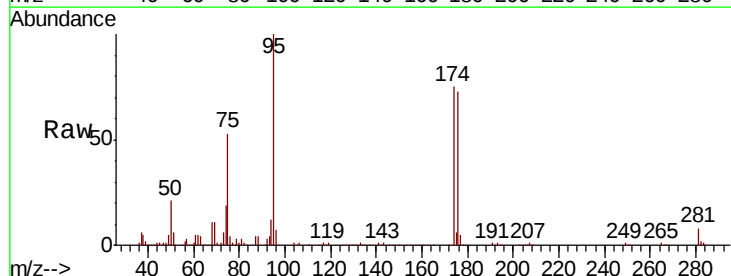
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

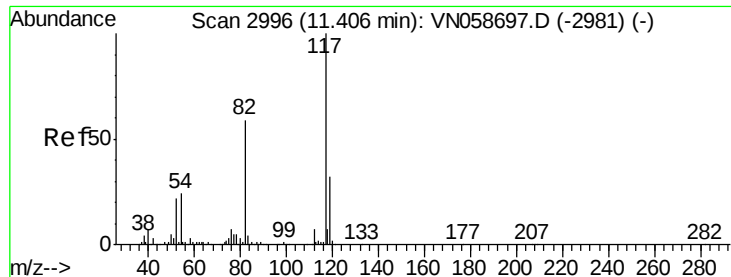
Tot Ion: 107 Resp: 10989
 Ion Ratio Lower Upper
 107 100
 109 98.0 75.4 113.0



#62
 4-Bromofluorobenzene
 Concen: 45.992 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

Tgt Ion: 95 Resp: 269204
 Ion Ratio Lower Upper
 95 100
 174 74.8 0.0 150.4
 176 72.7 0.0 146.8

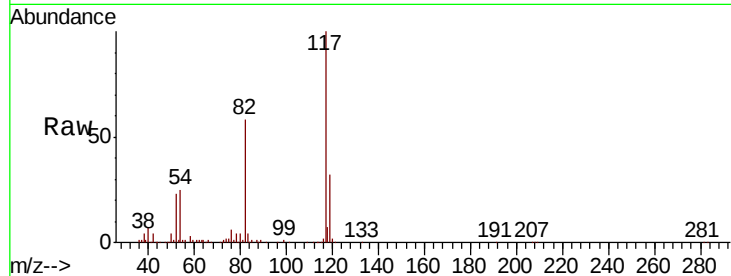




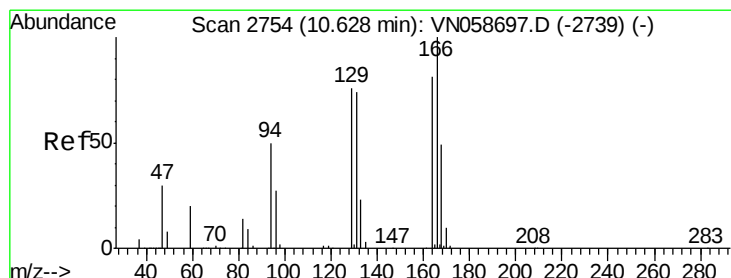
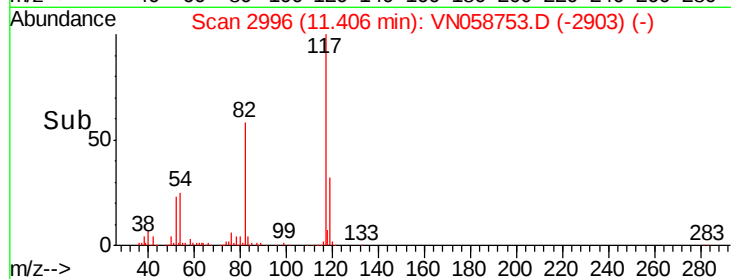
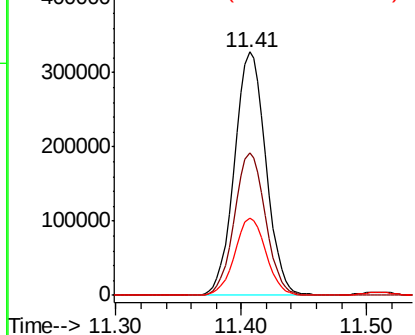
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tot Ion:117 Resp: 571076
Ion Ratio Lower Upper
117 100
82 58.4 47.0 70.4
119 31.6 25.4 38.2

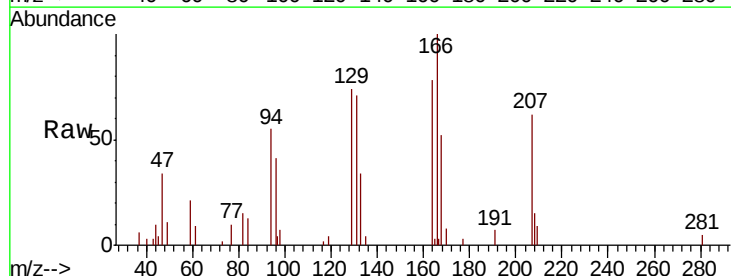


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

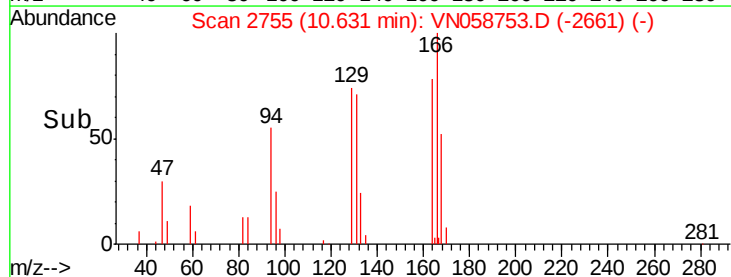
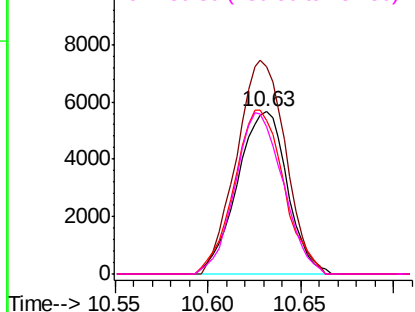


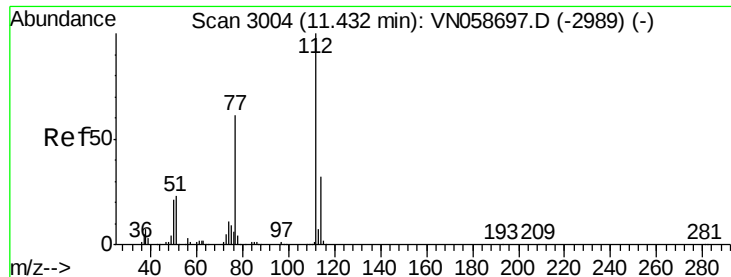
#64
Tetrachloroethene
Concen: 2.659 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Tgt Ion:164 Resp: 10625
Ion Ratio Lower Upper
164 100
166 127.7 99.3 148.9
129 94.6 75.2 112.8
131 90.3 73.0 109.4



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





#65

Chlorobenzene

Concen: 2.600 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

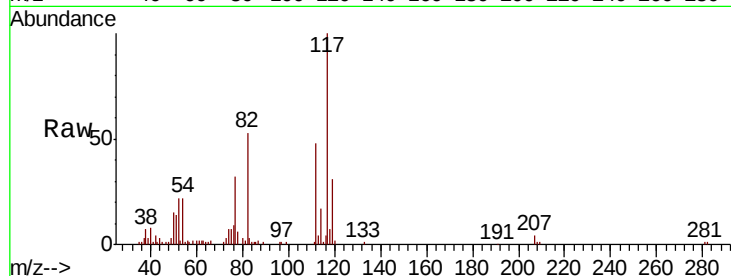
LOD-MDL-WATER-01-QT4-2019

Tot Ion:112 Resp: 30156

Ion Ratio Lower Upper

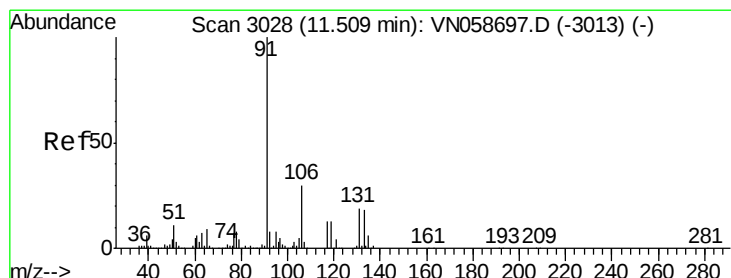
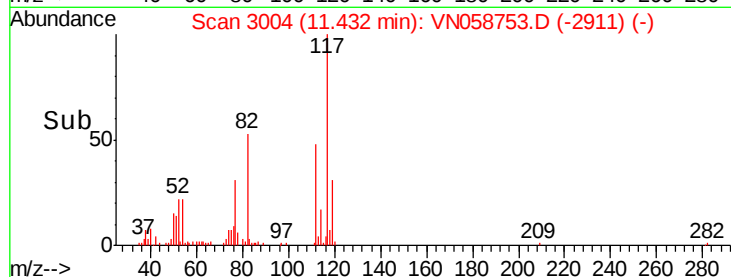
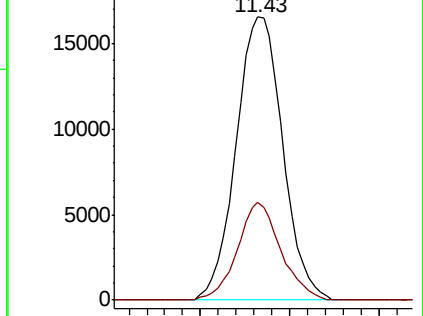
112 100

114 34.5 25.2 37.8



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 2.425 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

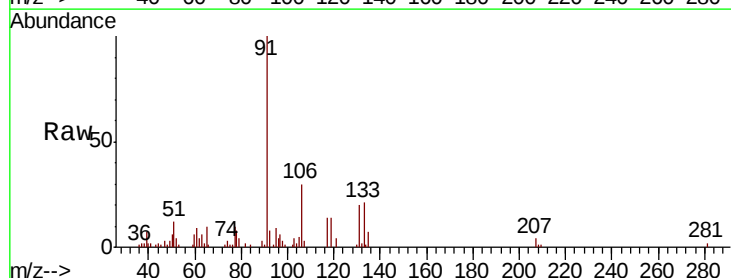
Tgt Ion:131 Resp: 10401

Ion Ratio Lower Upper

131 100

133 110.3 47.6 142.9

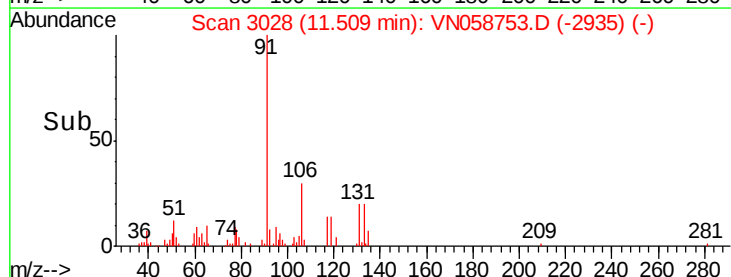
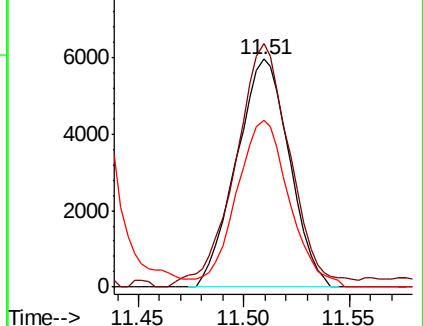
119 73.5 33.0 98.9

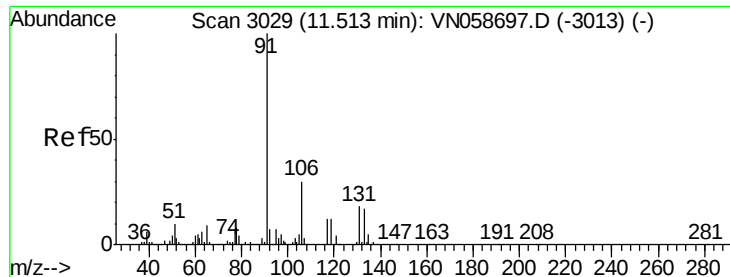


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 2.486 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

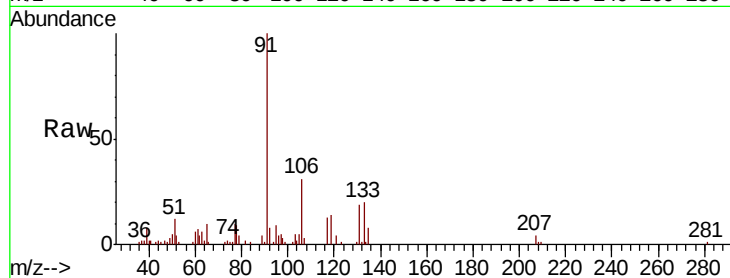
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 91 Resp: 51395

Ion Ratio Lower Upper

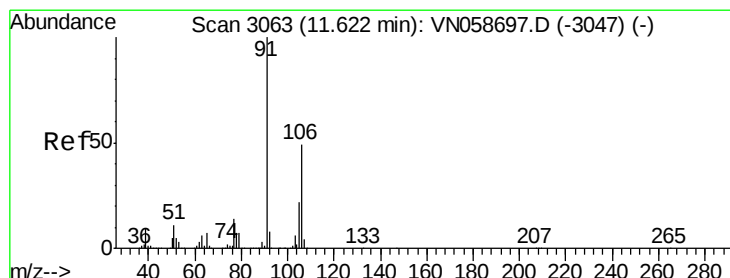
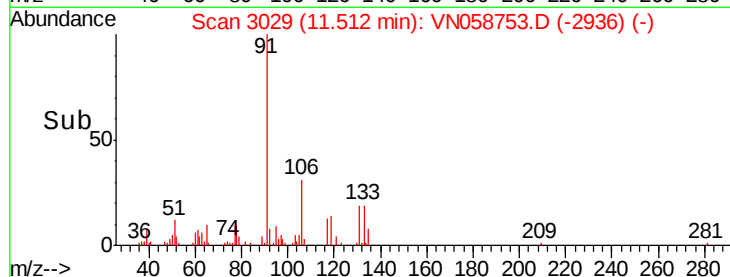
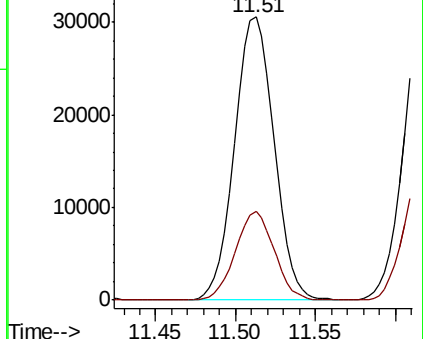
91 100

106 31.2 24.1 36.1



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

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



#68

m/p-Xylenes

Concen: 4.701 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. -0.00 min

Lab File: VN058753.D

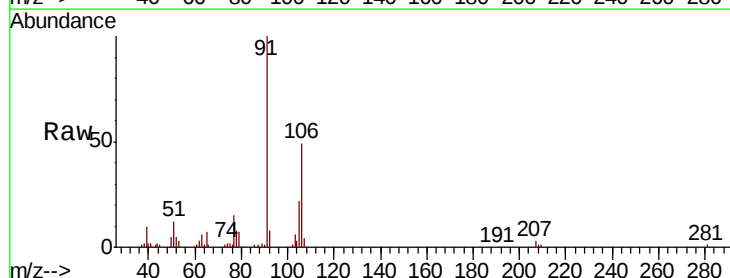
Acq: 14 Oct 2019 16:55

Tgt Ion: 106 Resp: 36471

Ion Ratio Lower Upper

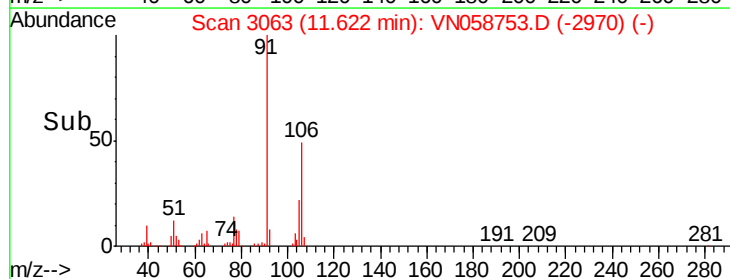
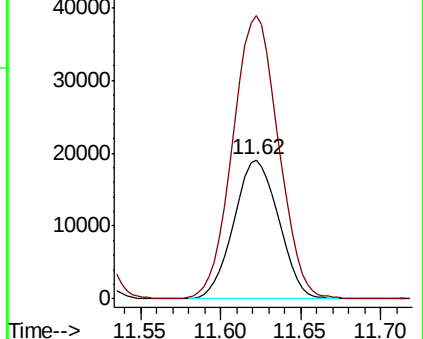
106 100

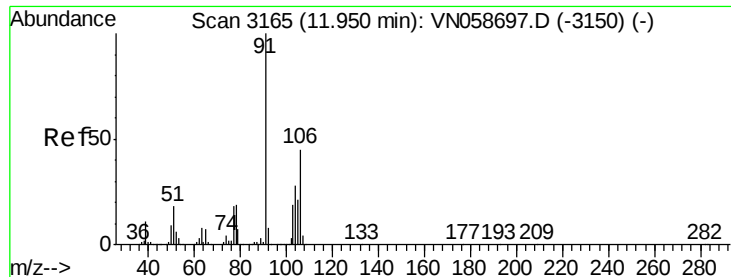
91 208.4 165.7 248.5



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

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

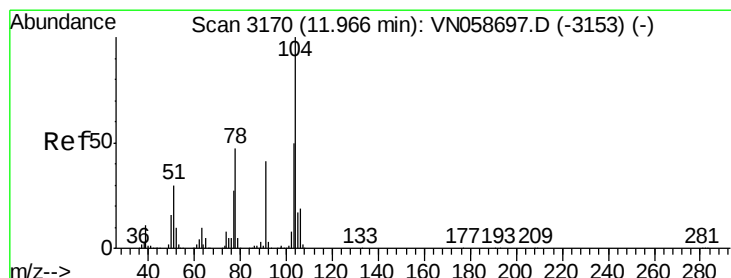
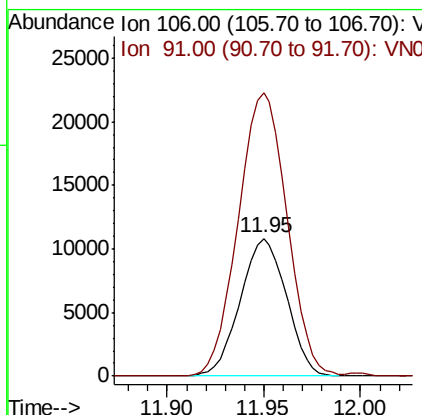
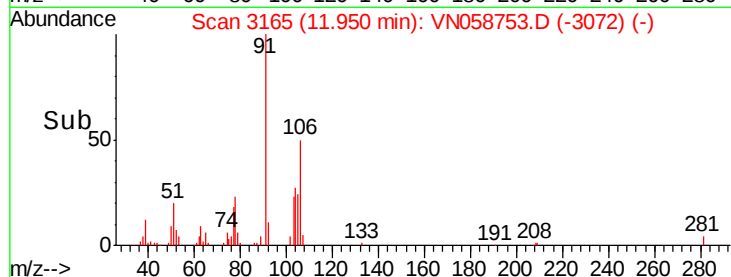
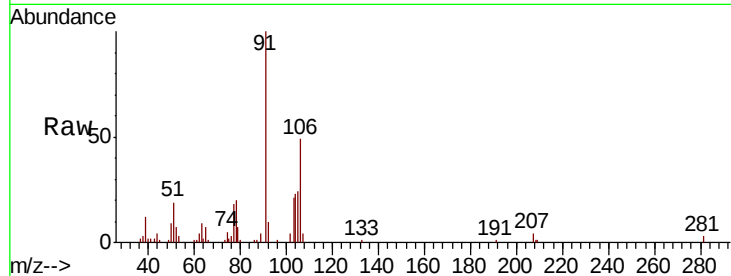




#69
o-Xylene
Concen: 2.396 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. -0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

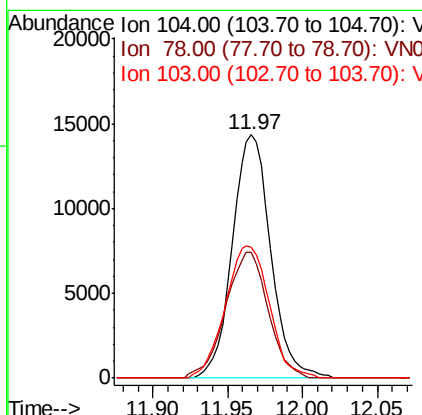
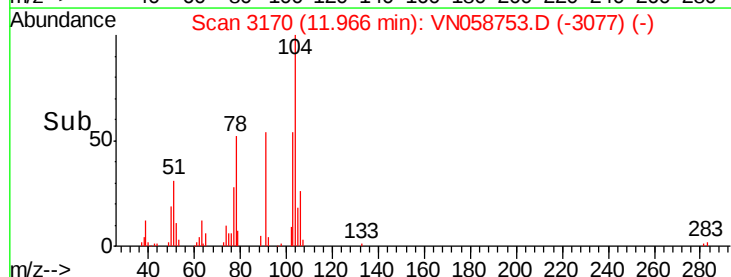
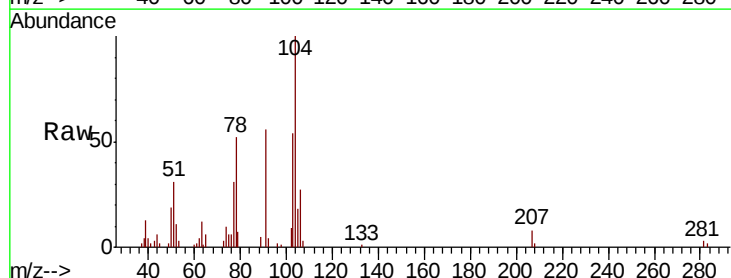
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

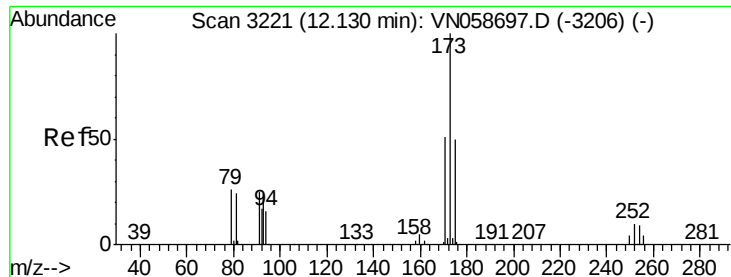
Tot Ion:106 Resp: 17986
Ion Ratio Lower Upper
106 100
91 217.2 110.9 332.9



#70
Styrene
Concen: 2.082 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. -0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Tgt Ion:104 Resp: 25613
Ion Ratio Lower Upper
104 100
78 57.2 42.2 63.2
103 62.2 43.7 65.5





#71

Bromoform

Concen: 2.389 ug/l

RT: 12.13 min Scan# 3221

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

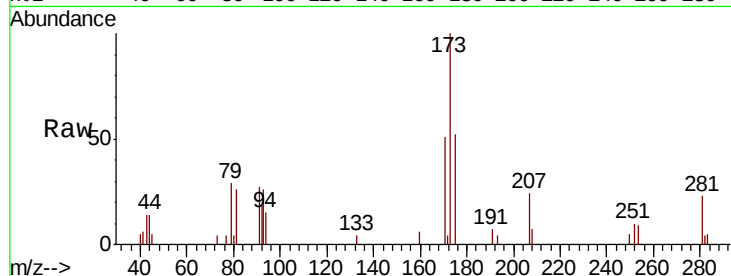
Tot Ion:173 Resp: 7511

Ion Ratio Lower Upper

173 100

175 51.3 24.6 73.8

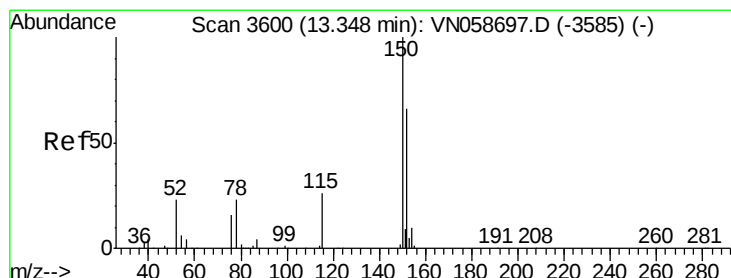
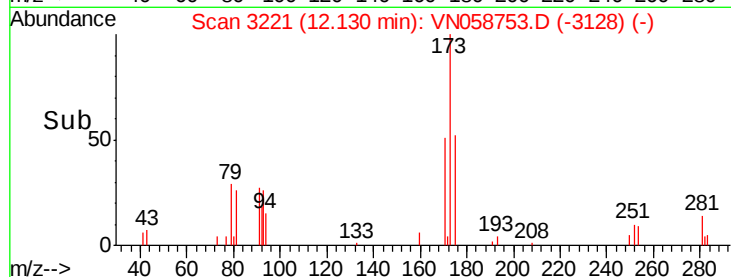
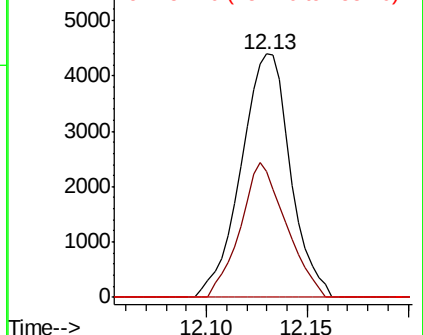
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

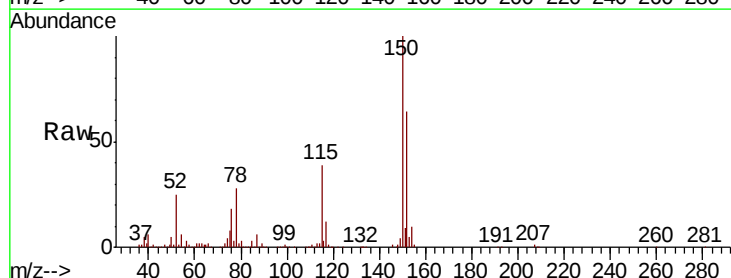
Tgt Ion:152 Resp: 249491

Ion Ratio Lower Upper

152 100

115 60.2 30.4 91.2

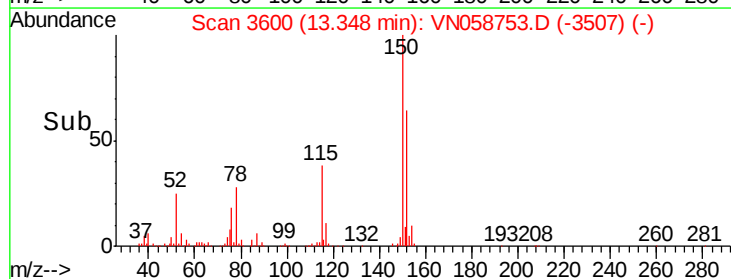
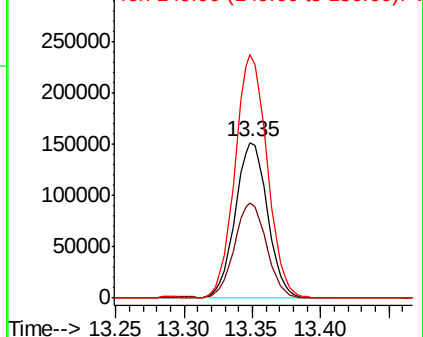
150 155.5 0.0 345.4

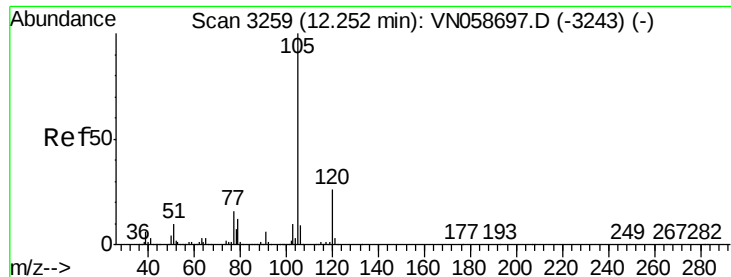


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 2.558 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

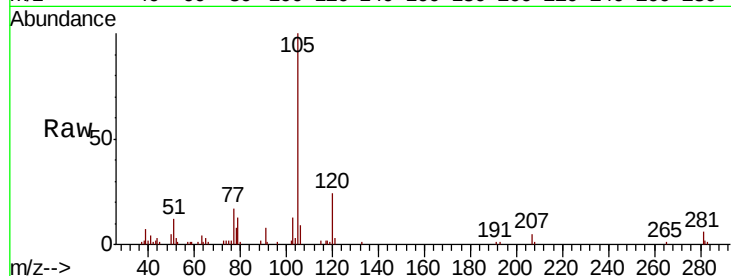
LOD-MDL-WATER-01-QT4-2019

Tot Ion:105 Resp: 46220

Ion Ratio Lower Upper

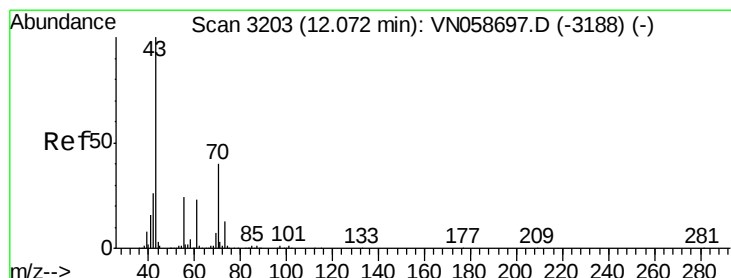
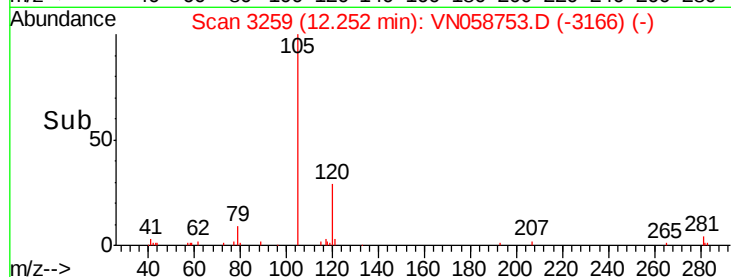
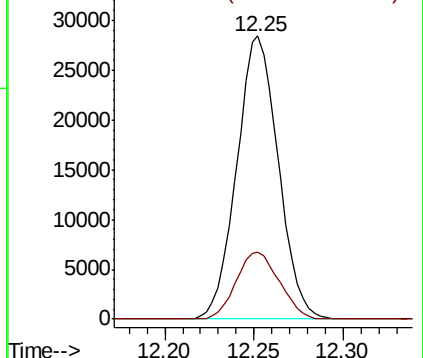
105 100

120 24.5 13.1 39.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 2.287 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Tgt Ion: 43 Resp: 18562

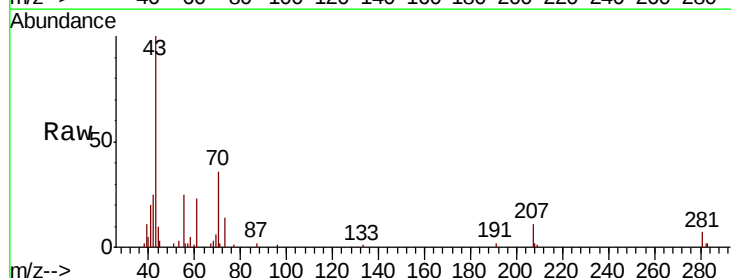
Ion Ratio Lower Upper

43 100

70 37.7 32.2 48.4

55 27.2 19.6 29.4

61 24.2 18.6 28.0

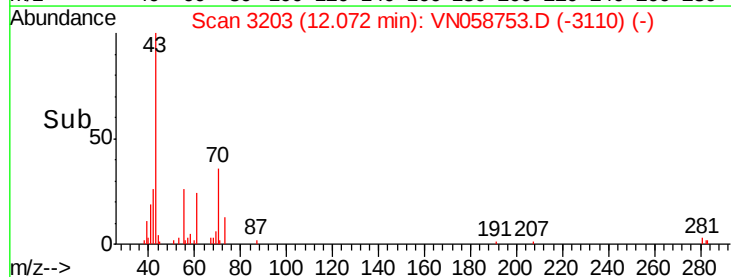
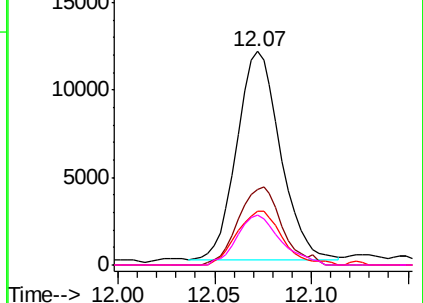


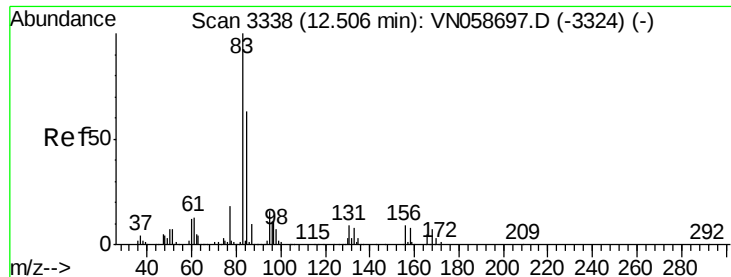
Abundance Ion 43.00 (42.70 to 43.70): V

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: 2.927 ug/l

RT: 12.51 min Scan# 3339

Delta R.T. 0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

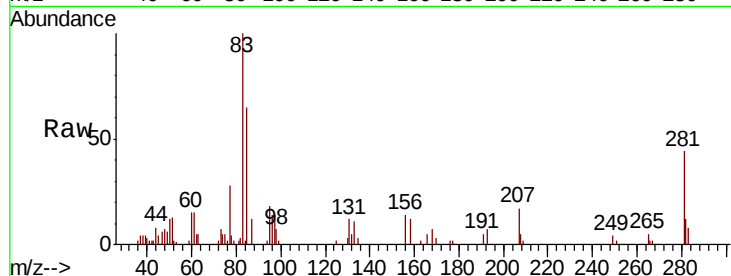
Tot Ion: 83 Resp: 17420

Ion Ratio Lower Upper

83 100

131 11.0 4.8 14.4

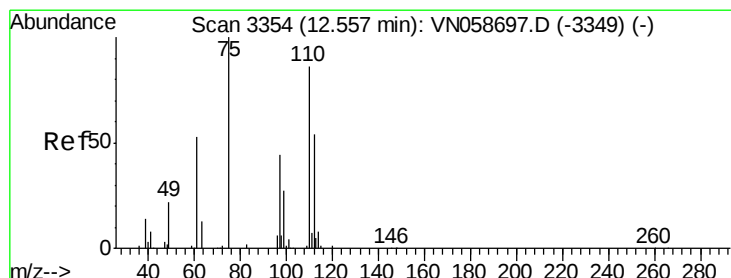
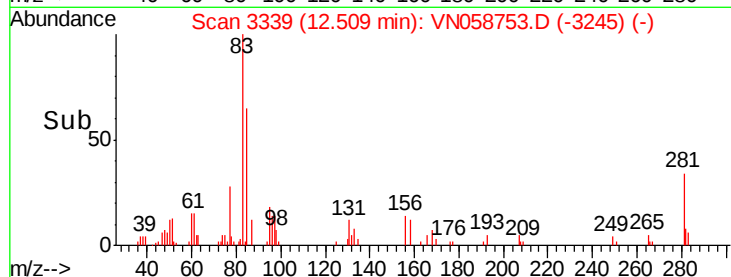
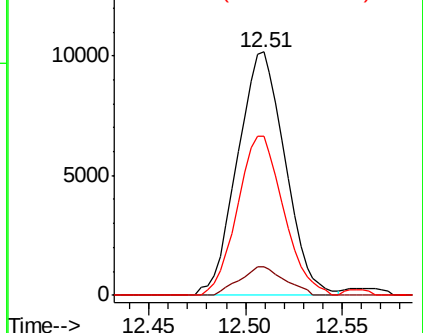
85 63.3 31.9 95.5



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 4.251 ug/l

RT: 12.56 min Scan# 3354

Delta R.T. -0.00 min

Lab File: VN058753.D

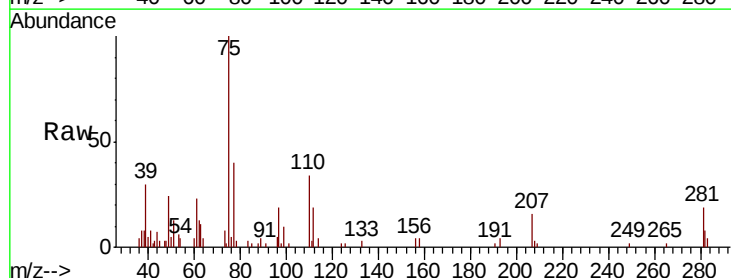
Acq: 14 Oct 2019 16:55

Tgt Ion: 75 Resp: 23265

Ion Ratio Lower Upper

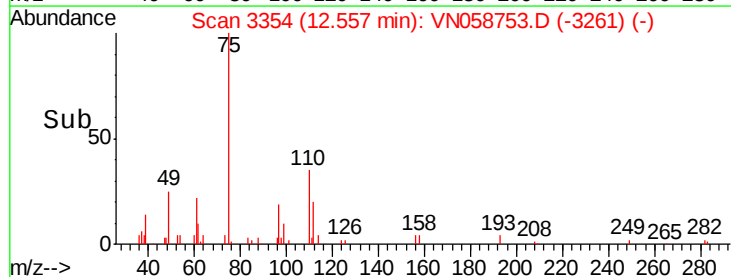
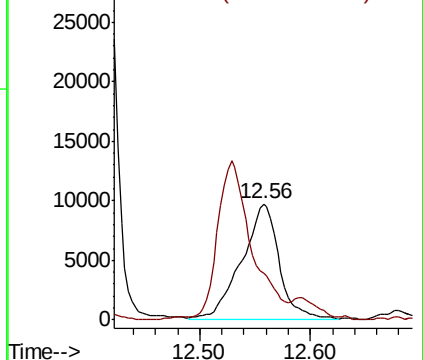
75 100

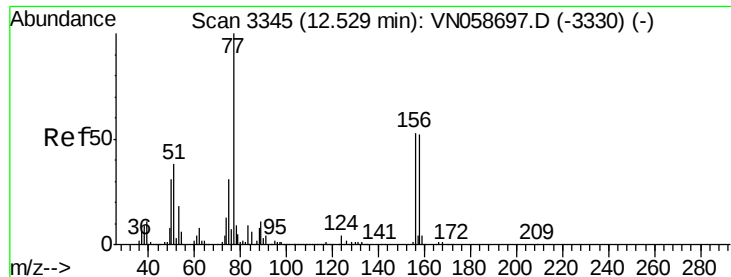
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 2.674 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

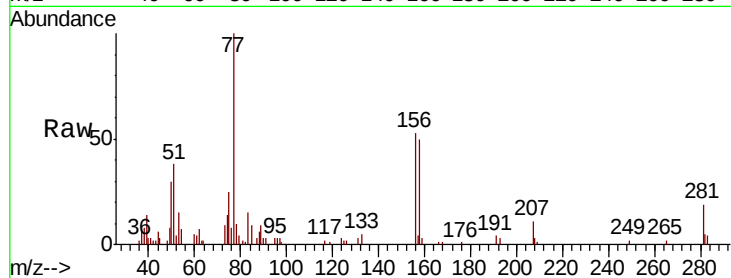
Tot Ion:156 Resp: 11753

Ion Ratio Lower Upper

156 100

77 235.6 115.8 347.3

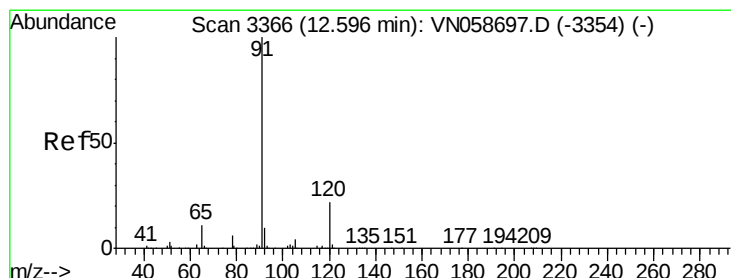
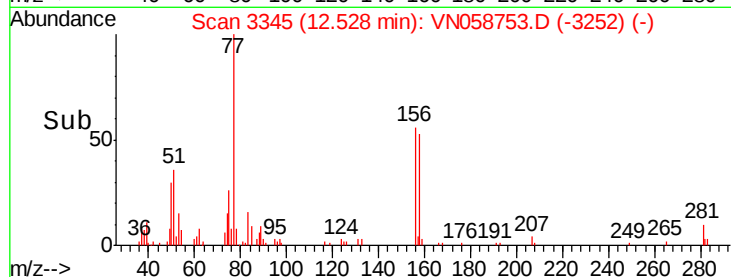
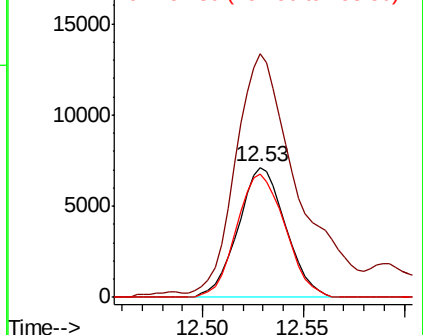
158 96.7 48.9 146.6



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 2.711 ug/l

RT: 12.60 min Scan# 3366

Delta R.T. -0.00 min

Lab File: VN058753.D

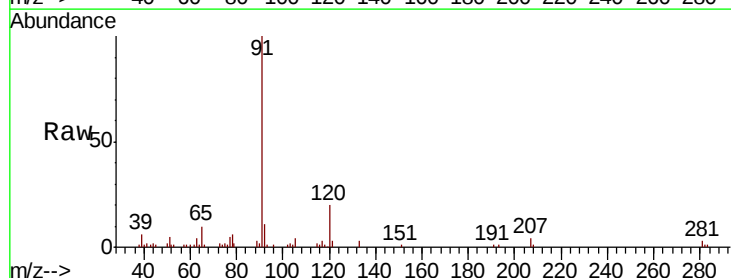
Acq: 14 Oct 2019 16:55

Tgt Ion: 91 Resp: 57082

Ion Ratio Lower Upper

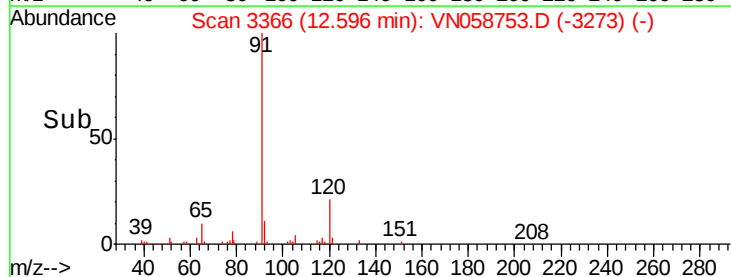
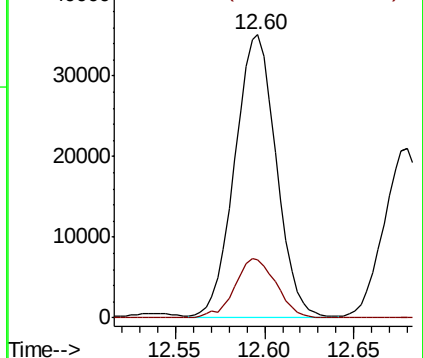
91 100

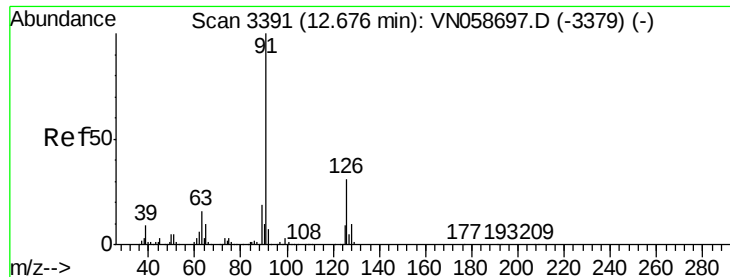
120 20.8 11.1 33.3



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 2.666 ug/l

RT: 12.68 min Scan# 3392

Delta R.T. 0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

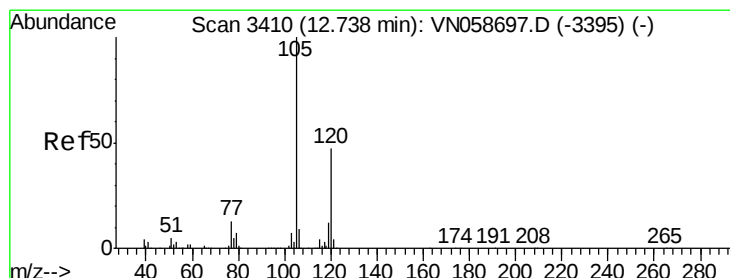
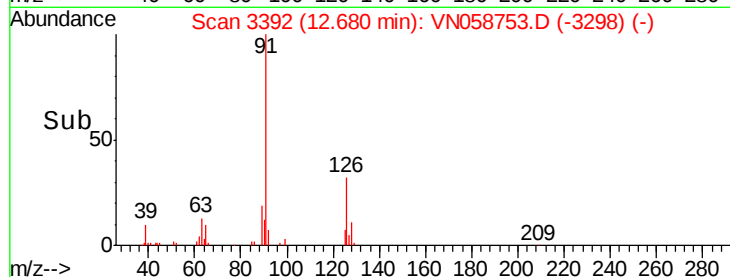
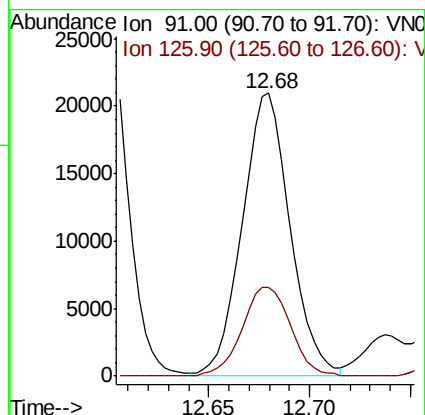
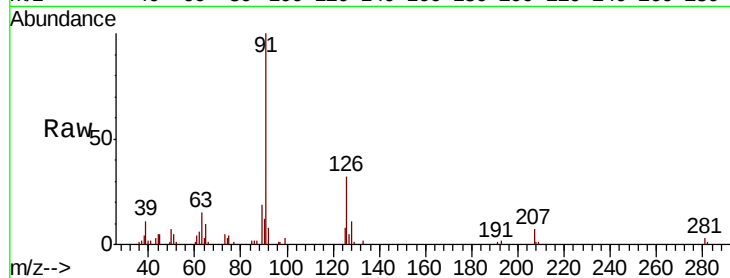
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 91 Resp: 34836

Ion Ratio Lower Upper

91 100

126 31.9 16.2 48.5



#80

1,3,5-Trimethylbenzene

Concen: 2.440 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. -0.00 min

Lab File: VN058753.D

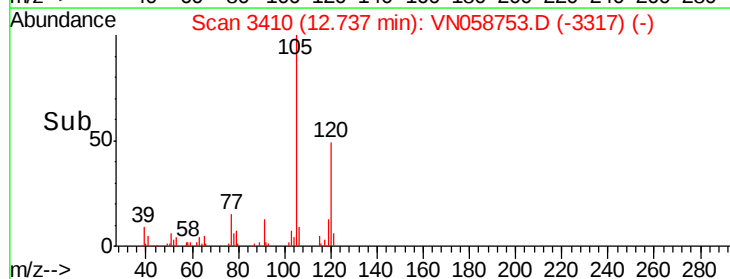
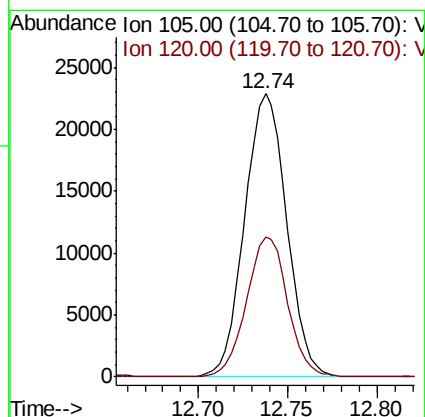
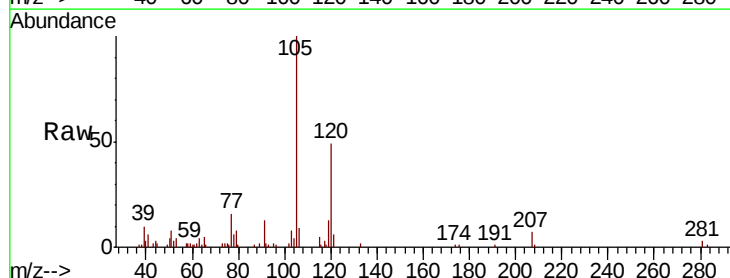
Acq: 14 Oct 2019 16:55

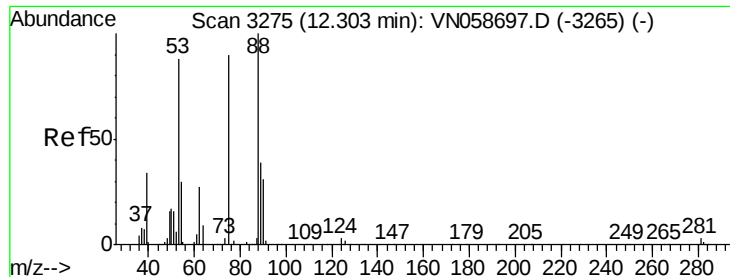
Tgt Ion: 105 Resp: 37639

Ion Ratio Lower Upper

105 100

120 48.2 23.4 70.2





#81

trans-1,4-Dichloro-2-butene

Concen: 2.465 ug/l

RT: 12.30 min Scan# 3275

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

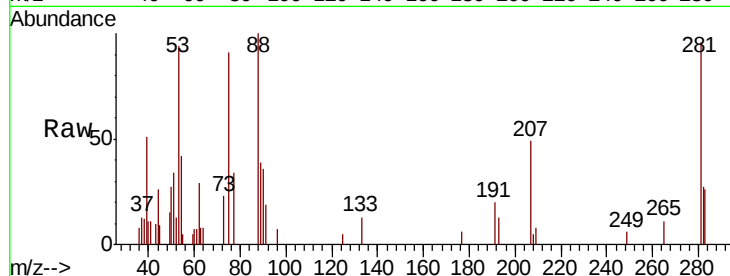
Tot Ion: 75 Resp: 5037

Ion Ratio Lower Upper

75 100

53 103.6 78.4 117.6

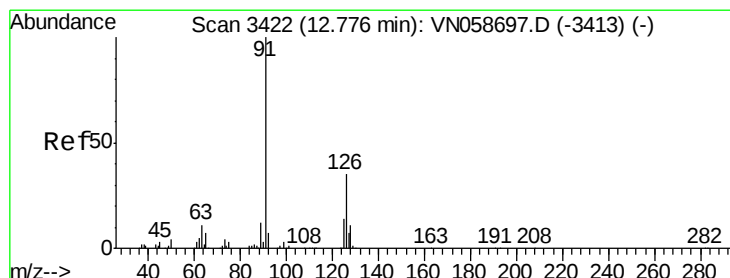
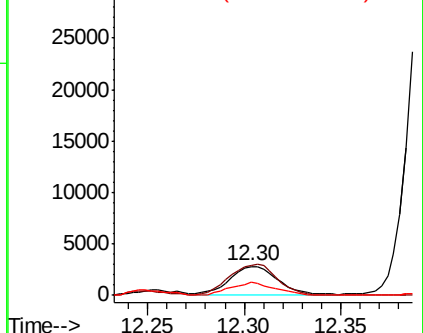
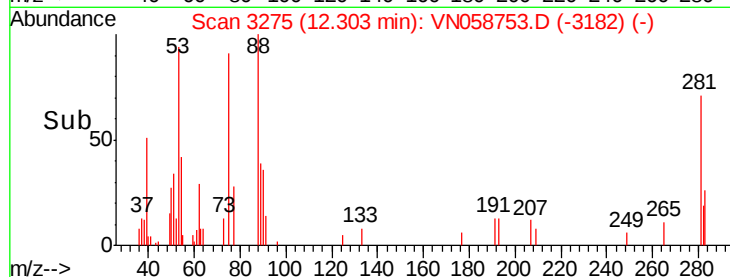
89 38.9 34.9 52.3



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#82

4-Chlorotoluene

Concen: 2.494 ug/l

RT: 12.78 min Scan# 3423

Delta R.T. 0.00 min

Lab File: VN058753.D

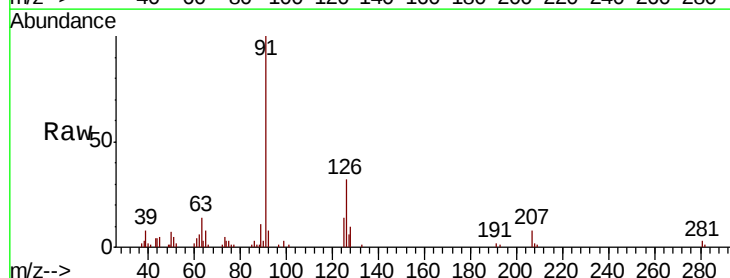
Acq: 14 Oct 2019 16:55

Tgt Ion: 91 Resp: 33444

Ion Ratio Lower Upper

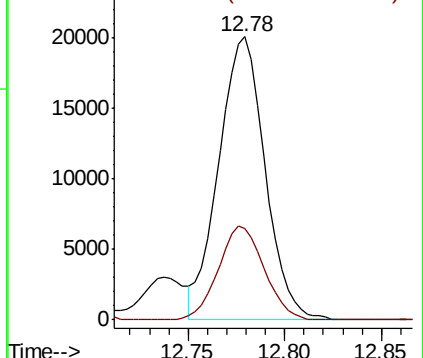
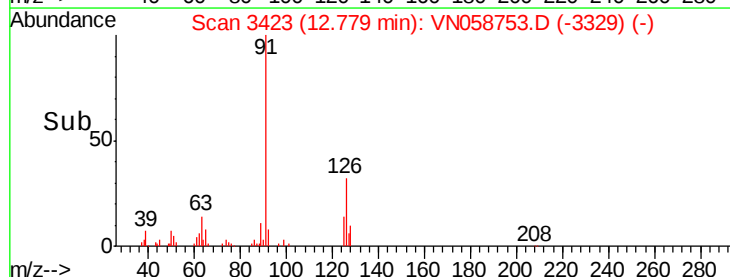
91 100

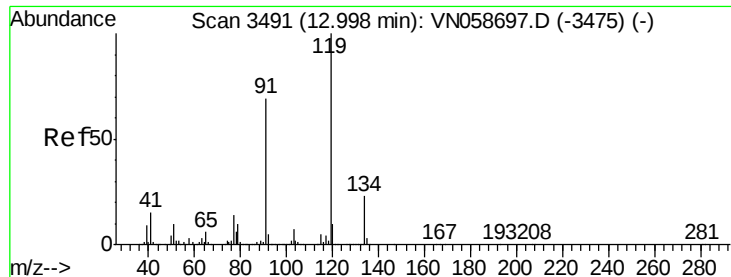
126 32.7 15.9 47.6



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 2.511 ug/l

RT: 13.00 min Scan# 3491

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

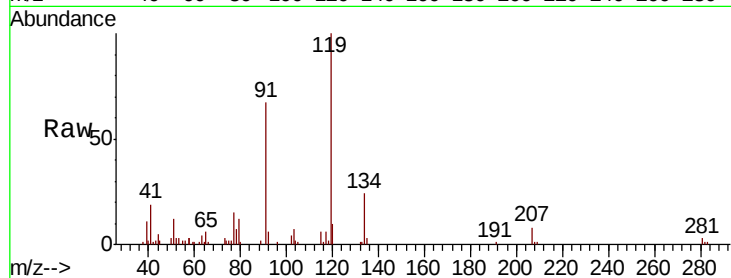
Tot Ion:119 Resp: 33187

Ion Ratio Lower Upper

119 100

91 69.2 33.8 101.3

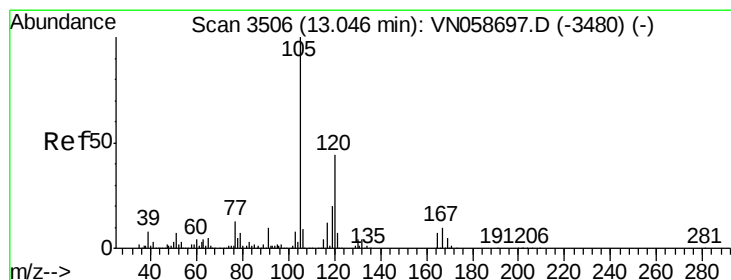
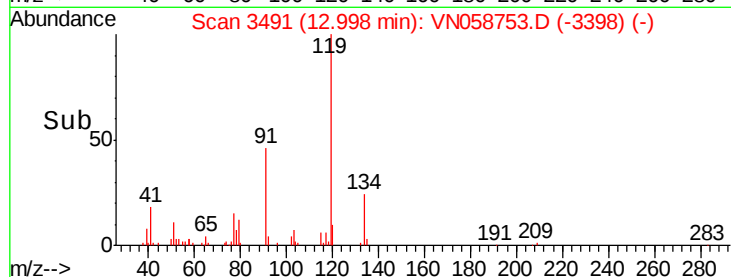
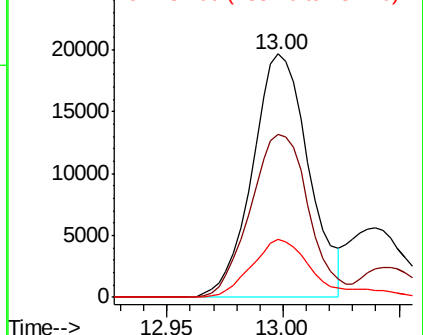
134 24.7 12.6 37.6



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 2.390 ug/l

RT: 13.05 min Scan# 3506

Delta R.T. -0.00 min

Lab File: VN058753.D

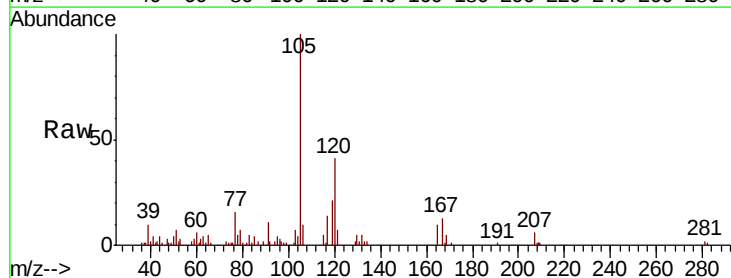
Acq: 14 Oct 2019 16:55

Tgt Ion:105 Resp: 36602

Ion Ratio Lower Upper

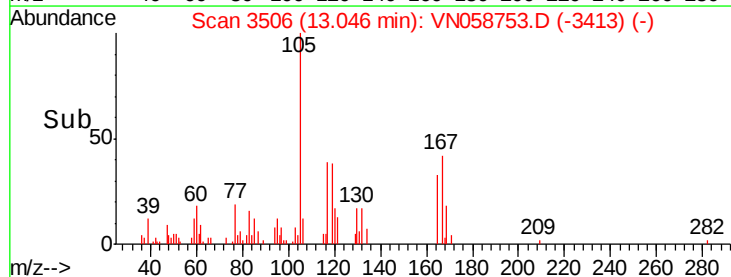
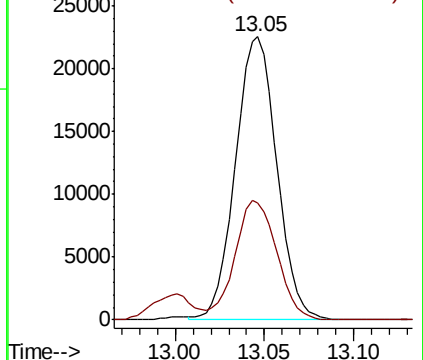
105 100

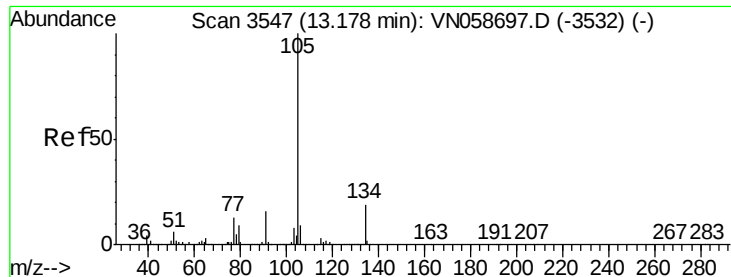
120 42.6 21.9 65.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 2.479 ug/l

RT: 13.18 min Scan# 3547

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

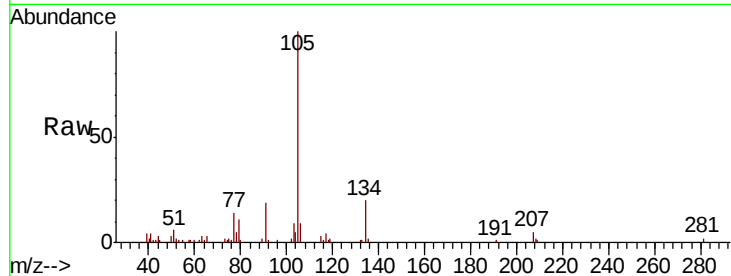
LOD-MDL-WATER-01-QT4-2019

Tot Ion:105 Resp: 43168

Ion Ratio Lower Upper

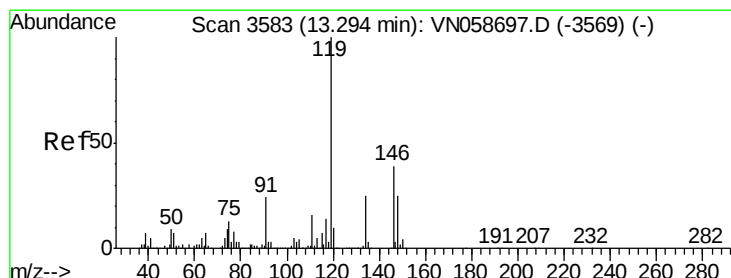
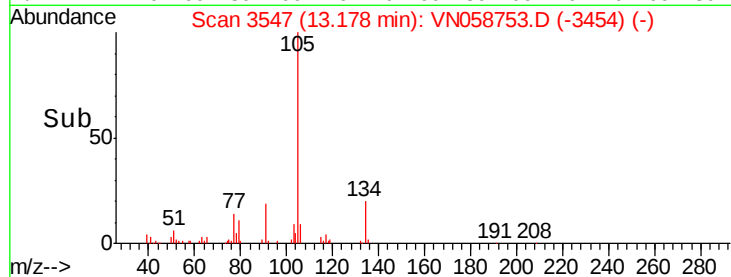
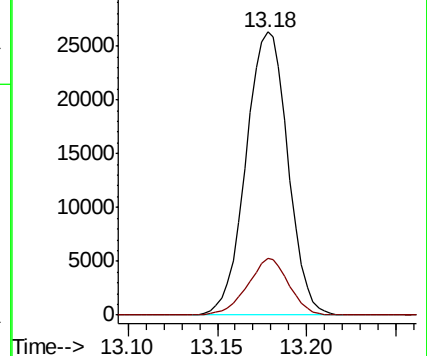
105 100

134 19.6 9.7 29.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 2.240 ug/l

RT: 13.29 min Scan# 3583

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

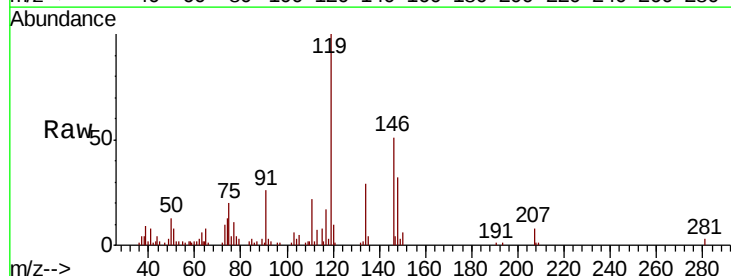
Tgt Ion:119 Resp: 35458

Ion Ratio Lower Upper

119 100

134 27.9 12.7 38.1

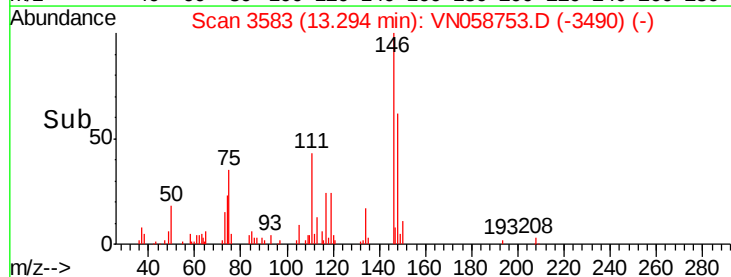
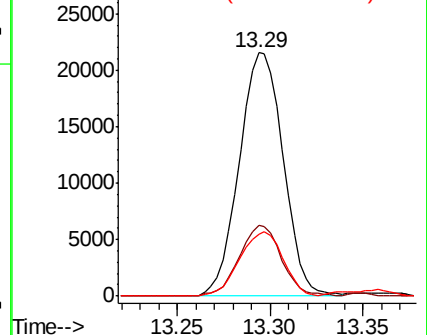
91 26.2 11.9 35.5

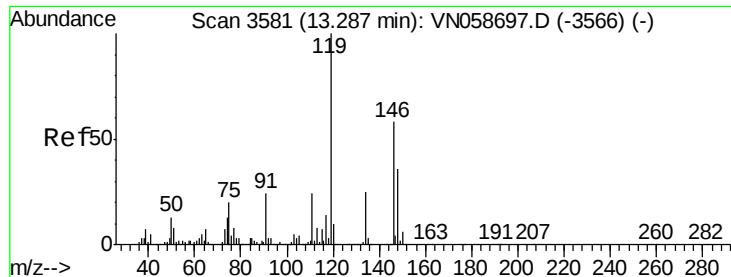


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

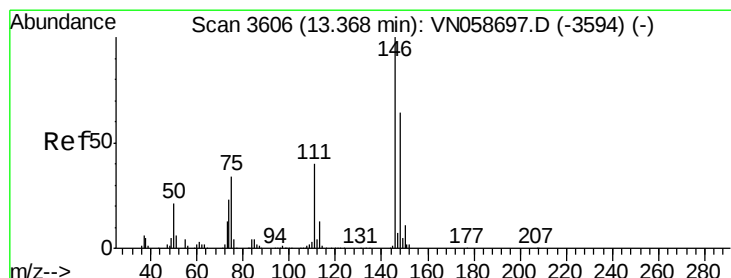
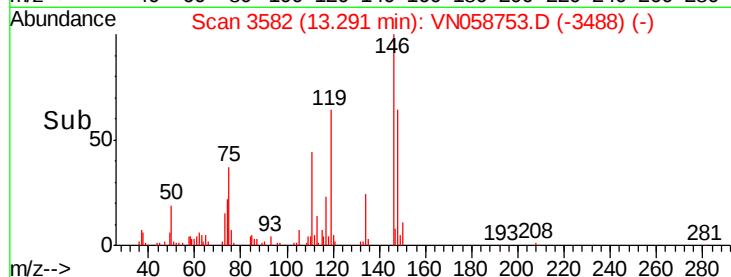
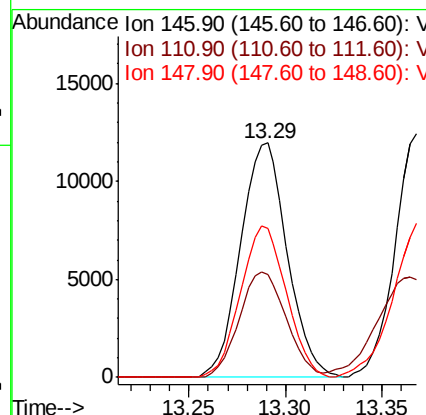
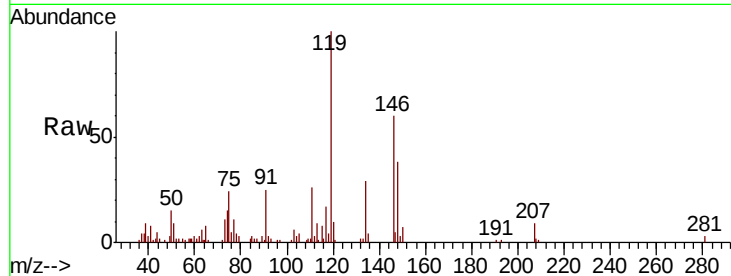




#87
 1,3-Dichlorobenzene
 Concen: 2.473 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

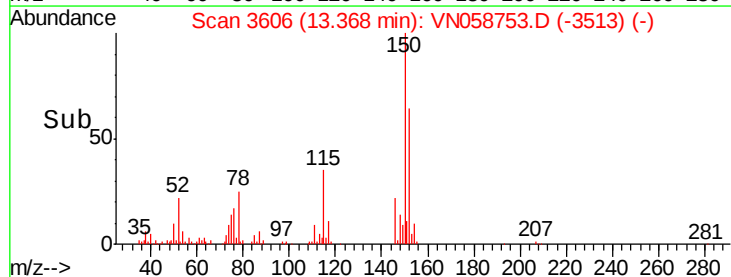
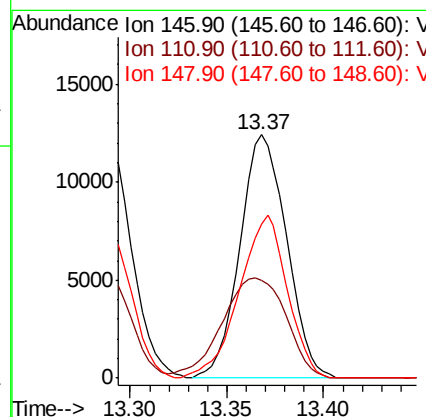
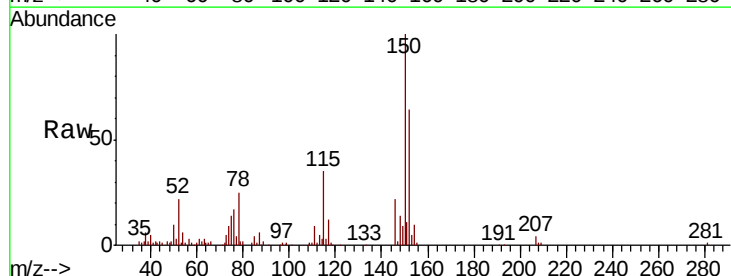
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

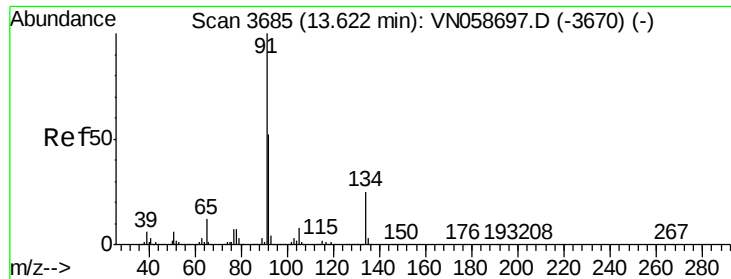
Tot Ion:146 Resp: 20047
 Ion Ratio Lower Upper
 146 100
 111 45.2 20.5 61.6
 148 63.3 31.3 93.9



#88
 1,4-Dichlorobenzene
 Concen: 2.532 ug/l
 RT: 13.37 min Scan# 3606
 Delta R.T. -0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

Tgt Ion:146 Resp: 20864
 Ion Ratio Lower Upper
 146 100
 111 56.7 20.1 60.2
 148 68.6 31.9 95.7

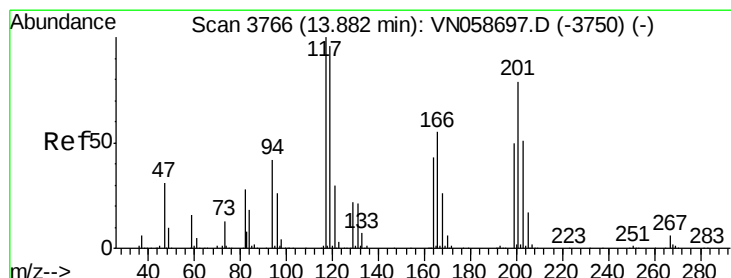
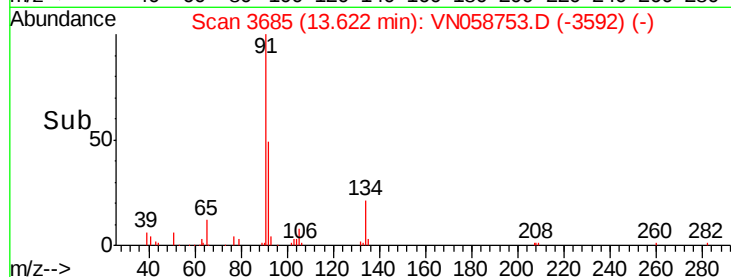
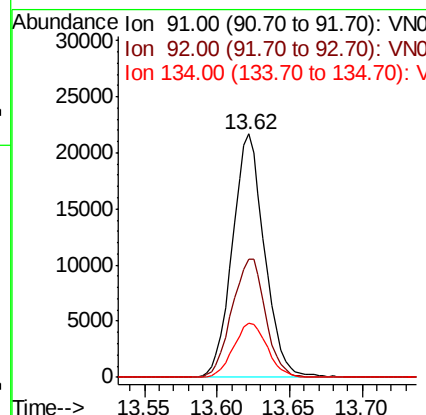
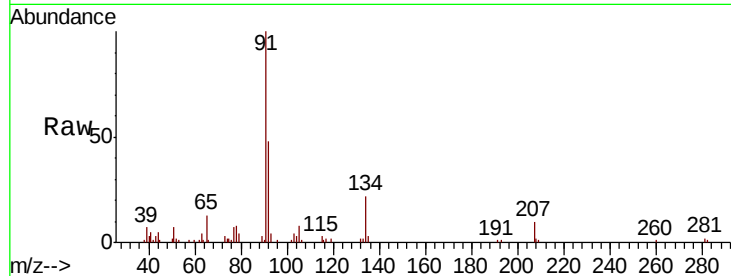




#89
n-Butylbenzene
Concen: 2.270 ug/l
RT: 13.62 min Scan# 3685
Delta R.T. -0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

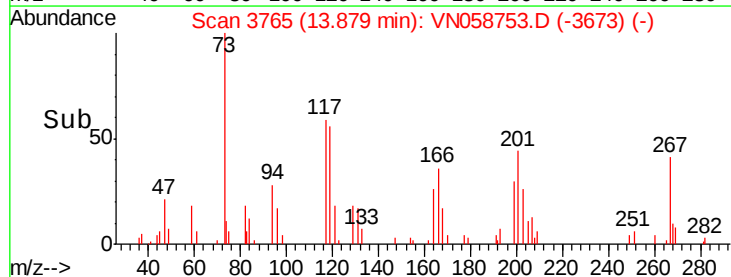
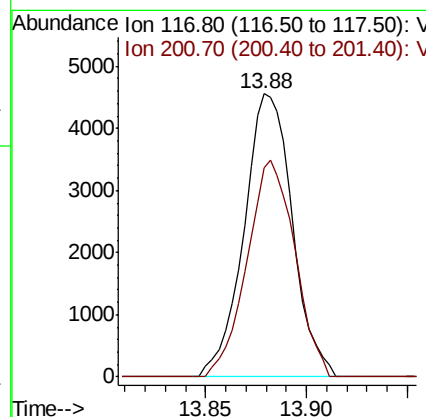
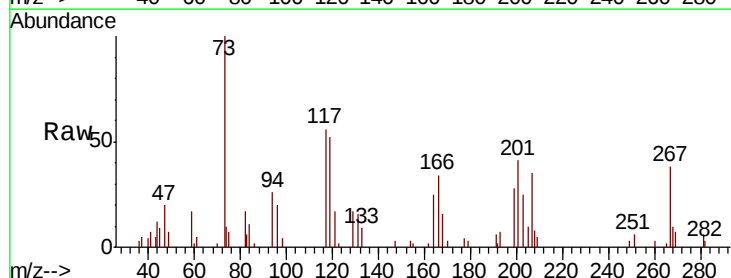
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

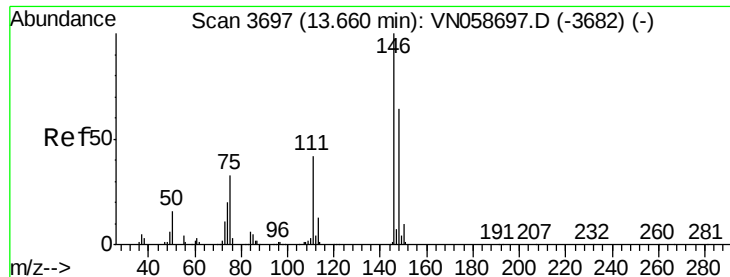
Tot Ion: 91 Resp: 33220
Ion Ratio Lower Upper
91 100
92 50.5 26.0 78.0
134 23.3 12.2 36.6



#90
Hexachloroethane
Concen: 2.699 ug/l
RT: 13.88 min Scan# 3765
Delta R.T. -0.00 min
Lab File: VN058753.D
Acq: 14 Oct 2019 16:55

Tgt Ion: 117 Resp: 7643
Ion Ratio Lower Upper
117 100
201 75.6 39.6 118.7

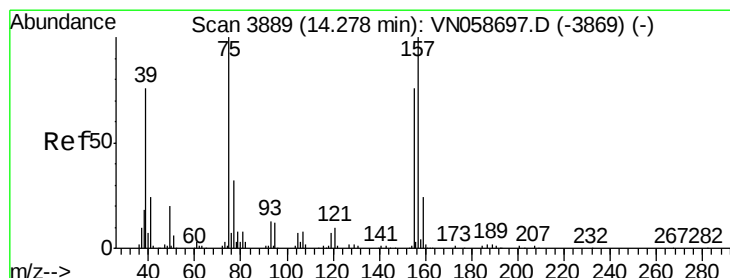
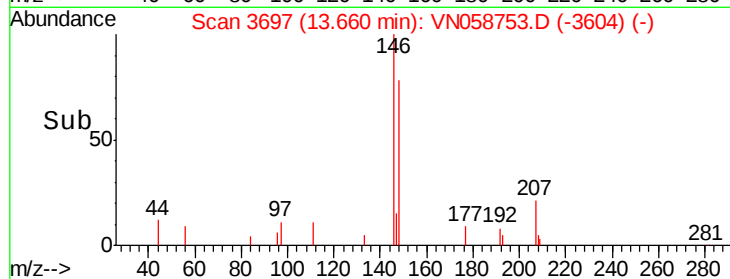
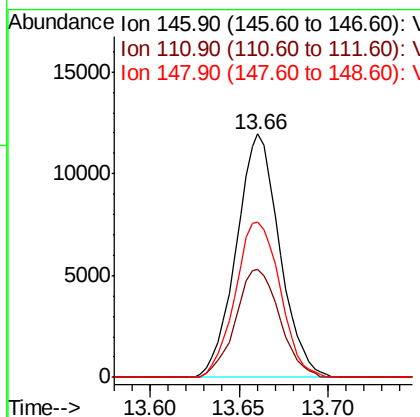
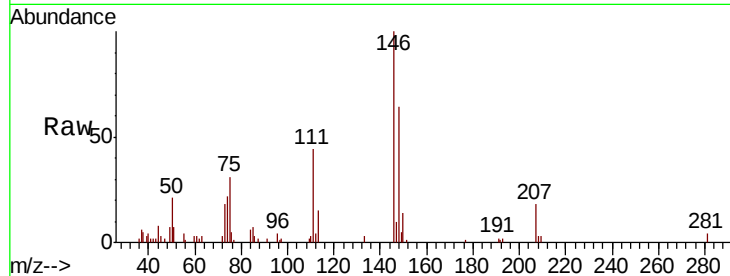




#91
 1,2-Dichlorobenzene
 Concen: 2.554 ug/l
 RT: 13.66 min Scan# 3697
 Delta R.T. -0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

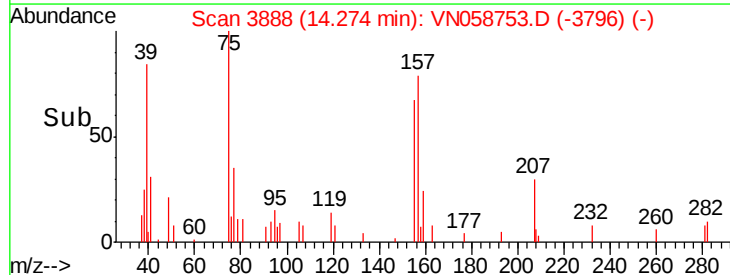
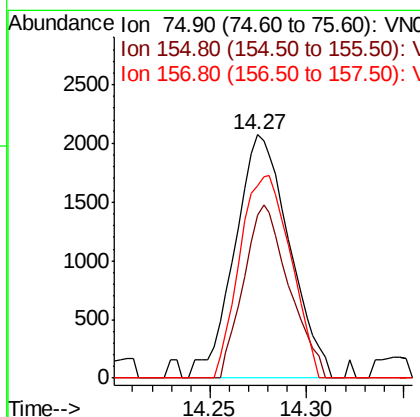
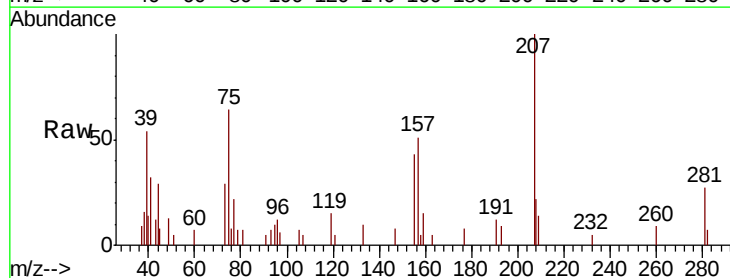
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

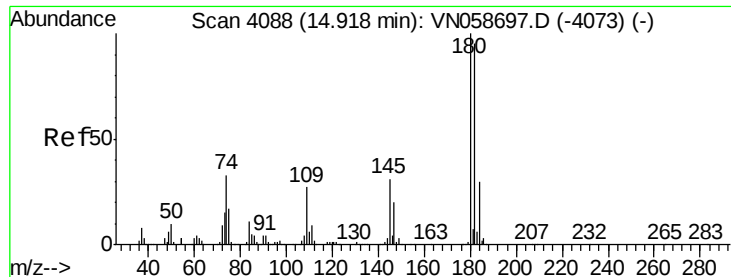
Tot Ion	Ratio	Lower	Upper
146	100		
111	45.3	21.1	63.4
148	66.1	31.8	95.3



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.924 ug/l
 RT: 14.27 min Scan# 3888
 Delta R.T. -0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

Tgt Ion	Ratio	Lower	Upper
75	100		
155	59.2	37.9	113.6
157	77.7	49.4	148.2

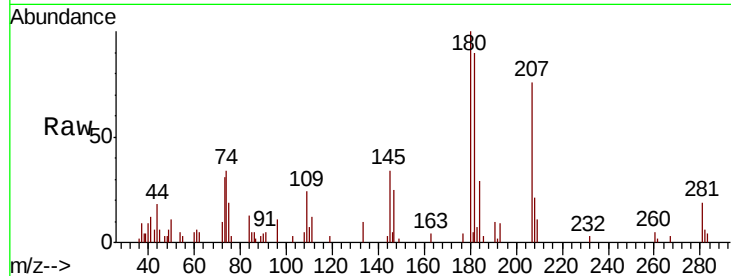




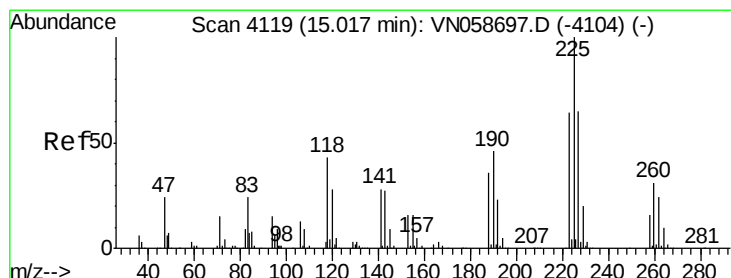
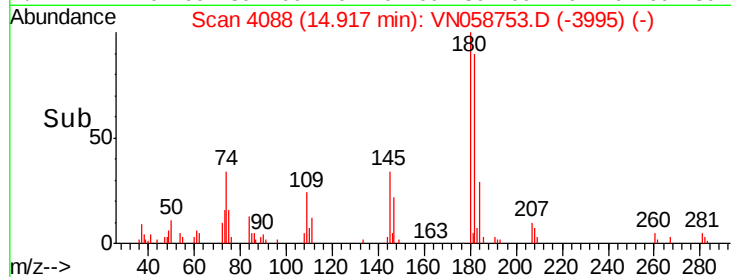
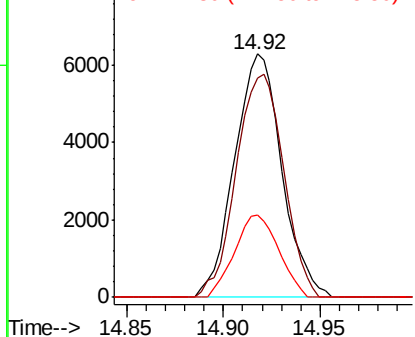
#93
 1,2,4-Trichlorobenzene
 Concen: 2.221 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. -0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
180	100		
182	91.7	47.4	142.2
145	31.4	15.4	46.2

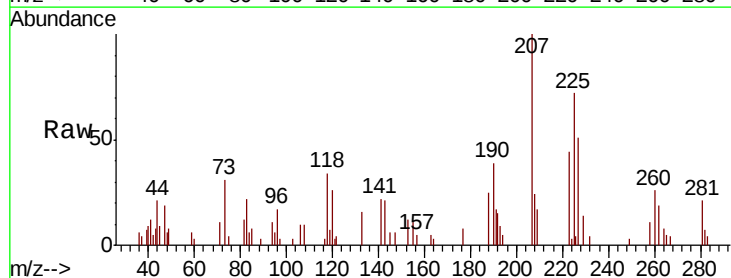


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

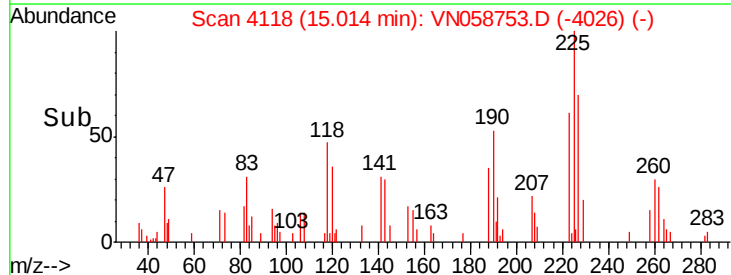
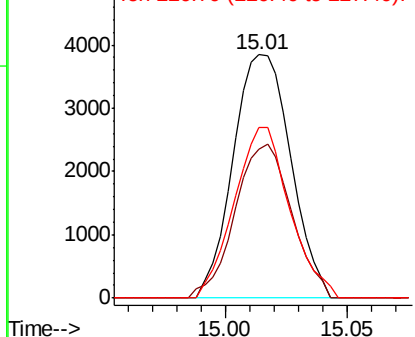


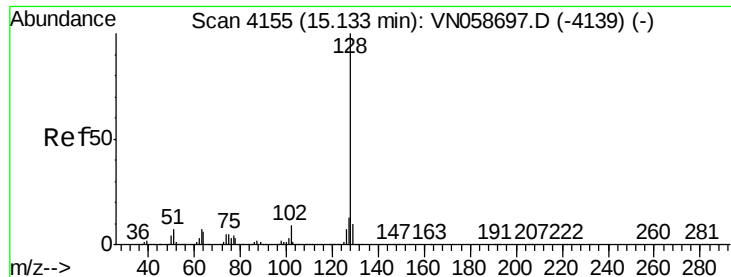
#94
 Hexachlorobutadiene
 Concen: 2.489 ug/l
 RT: 15.01 min Scan# 4118
 Delta R.T. -0.00 min
 Lab File: VN058753.D
 Acq: 14 Oct 2019 16:55

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.0	32.3	96.8
227	67.5	32.4	97.0



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 1.930 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

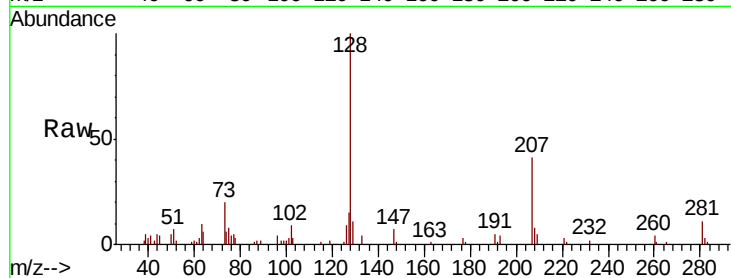
Tot Ion:128 Resp: 26733

Ion Ratio Lower Upper

128 100

127 14.5 10.2 15.4

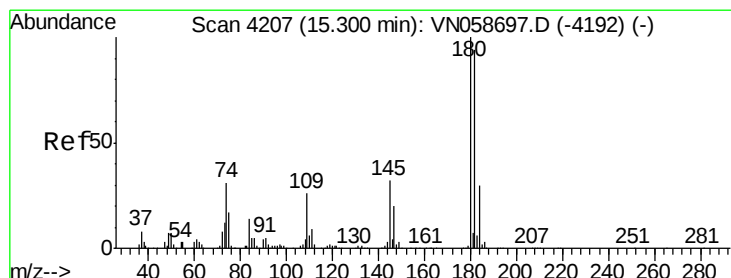
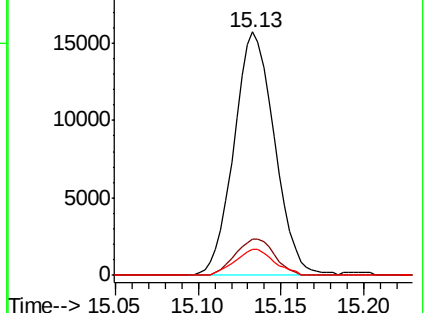
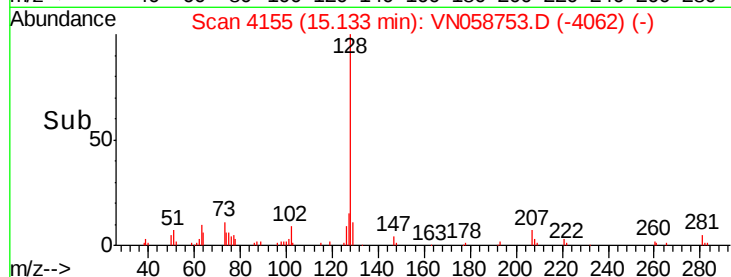
129 10.1 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 2.083 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. -0.00 min

Lab File: VN058753.D

Acq: 14 Oct 2019 16:55

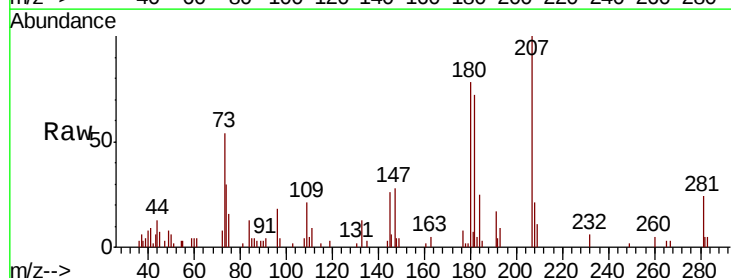
Tgt Ion:180 Resp: 9802

Ion Ratio Lower Upper

180 100

182 92.7 47.3 142.0

145 34.3 16.2 48.6



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

