

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101419\
 Data File : VN058749.D
 Acq On : 14 Oct 2019 15:04
 Operator : JC/SP
 Sample : K5111-07 0.2PPB LOD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

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

Quant Time: Oct 15 03:10:22 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	378548	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	636759	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	570059	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	234641	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	321668	60.70	ug/l	0.00
Spiked Amount			Recovery	=	121.40%	
35) Dibromofluoromethane	7.57	113	227411	57.82	ug/l	0.00
Spiked Amount			Recovery	=	115.64%	
50) Toluene-d8	10.08	98	839503	53.38	ug/l	0.00
Spiked Amount			Recovery	=	106.76%	
62) 4-Bromofluorobenzene	12.41	95	283724	47.66	ug/l	0.00
Spiked Amount			Recovery	=	95.32%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1776	0.317	ug/l #	64
4) Vinyl Chloride	2.17	62	1485	0.266	ug/l #	64
5) Bromomethane	2.55	94	686	0.202	ug/l	95
6) Chloroethane	2.68	64	842	0.244	ug/l #	75
7) Trichlorofluoromethane	3.00	101	1582	0.237	ug/l #	79
11) Tert butyl alcohol	4.76	59	520	0.606	ug/l #	72
13) Acrolein	3.59	56	544	0.788	ug/l #	48
14) Allyl chloride	4.31	41	1949	0.266	ug/l #	65
15) Acrylonitrile	4.98	53	1346	0.622	ug/l #	91
16) Acetone	3.81	43	3126	1.425	ug/l	99
17) Carbon Disulfide	4.03	76	3258	0.280	ug/l #	89
20) Methylene Chloride	4.53	84	1557	0.340	ug/l #	62
23) Vinyl Acetate	5.89	43	10165	0.883	ug/l #	83
25) 2-Butanone	6.82	43	2702	0.852	ug/l #	50
26) 2,2-Dichloropropane	6.80	77	2256	0.304	ug/l #	66
29) Tetrahydrofuran	7.19	42	1976	0.964	ug/l #	54
30) Chloroform	7.36	83	2685	0.329	ug/l #	78
31) Cyclohexane	7.64	56	9839	1.266	ug/l #	1
36) 1,1-Dichloropropene	7.78	75	1415	0.220	ug/l #	59
38) Carbon Tetrachloride	7.65	117	37372	5.956	ug/l #	18
40) Benzene	8.03	78	4087	0.221	ug/l #	88
42) 1,2-Dichloroethane	8.12	62	2154	0.303	ug/l #	78
43) Isopropyl Acetate	8.16	43	2243	0.202	ug/l #	60
47) Bromodichloromethane	9.39	83	1442	0.226	ug/l #	68
49) 1,4-Dioxane	9.19	88	107	1.376	ug/l #	22
51) 4-Methyl-2-Pentanone	9.98	43	6056	0.972	ug/l	92
57) 1,3-Dichloropropane	10.71	76	1603	0.203	ug/l #	80
58) 2-Chloroethyl Vinyl ether	9.69	63	2334	0.716	ug/l	96
59) 2-Hexanone	10.75	43	4812	1.000	ug/l	85
64) Tetrachloroethene	10.62	164	911	0.228	ug/l #	87
65) Chlorobenzene	11.43	112	2368	0.205	ug/l #	88
67) Ethyl Benzene	11.51	91	4542	0.220	ug/l	92
68) m/p-Xylenes	11.62	106	2551	0.329	ug/l	88
74) N-amyl acetate	12.08	43	1979	0.259	ug/l #	76

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101419\
 Data File : VN058749.D
 Acq On : 14 Oct 2019 15:04
 Operator : JC/SP
 Sample : K5111-07 0.2PPB LOD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

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

Quant Time: Oct 15 03:10:22 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

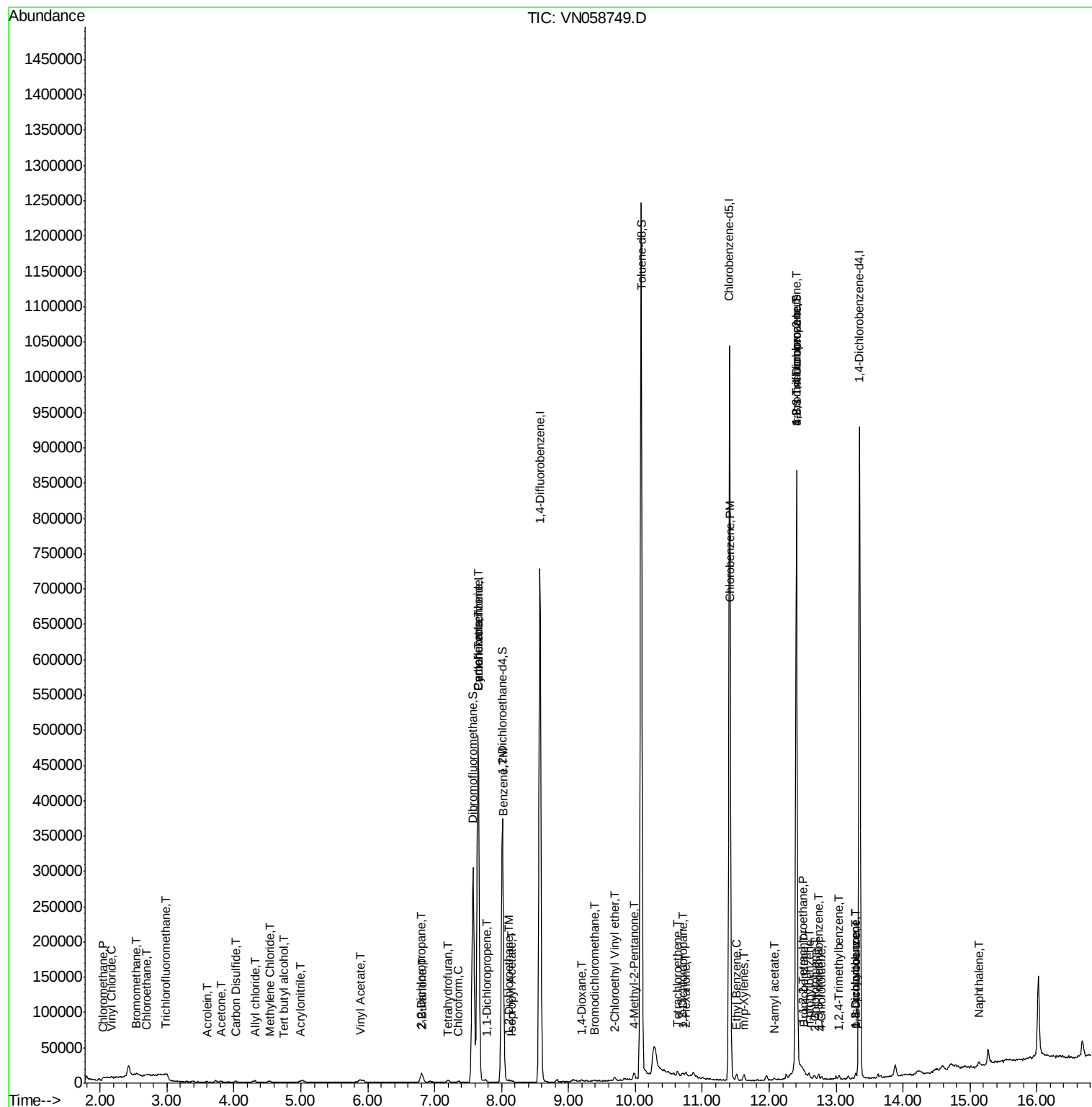
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 1,1,2,2-Tetrachloroethane	12.51	83	1483	0.265	ug/l #	87
76) 1,2,3-Trichloropropane	12.41	75	152839	29.692	ug/l #	100
77) Bromobenzene	12.53	156	933	0.226	ug/l	85
78) n-propylbenzene	12.59	91	4083	0.206	ug/l	90
79) 2-Chlorotoluene	12.68	91	2516	0.205	ug/l	91
80) 1,3,5-Trimethylbenzene	12.74	105	3230	0.223	ug/l	86
81) trans-1,4-Dichloro-2-buten	12.41	75	152839	79.536	ug/l #	11
82) 4-Chlorotoluene	12.78	91	2677	0.212	ug/l	95
84) 1,2,4-Trimethylbenzene	13.05	105	2959	0.205	ug/l	87
86) p-Isopropyltoluene	13.29	119	3101	0.208	ug/l	94
87) 1,3-Dichlorobenzene	13.29	146	1553	0.204	ug/l	83
88) 1,4-Dichlorobenzene	13.29	146	1553	0.200	ug/l	84
95) Naphthalene	15.13	128	2713	0.208	ug/l #	89

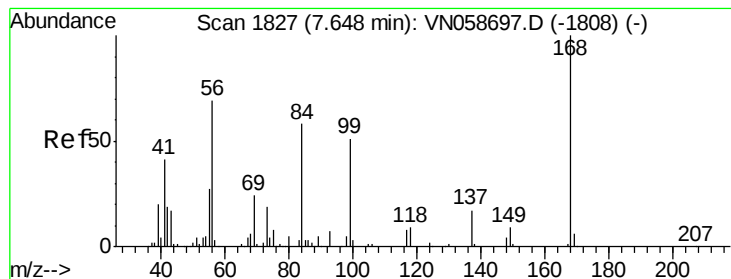
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN101419\
Data File : VN058749.D
Acq On : 14 Oct 2019 15:04
Operator : JC/SP
Sample : K5111-07 0.2PPB LOD
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 8 Sample Multiplier: 1

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

Quant Time: Oct 15 03:10:22 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 12 00:00:30 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

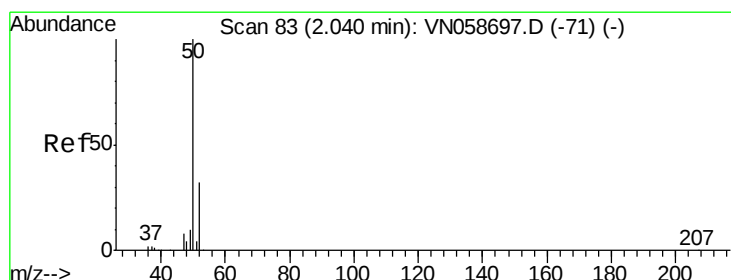
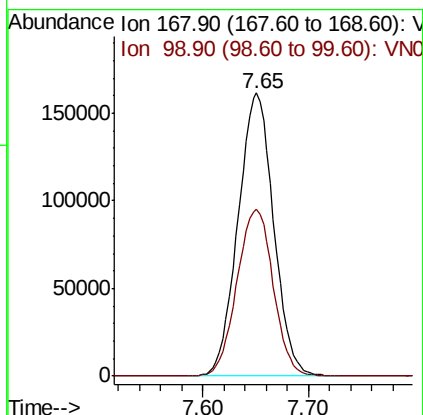
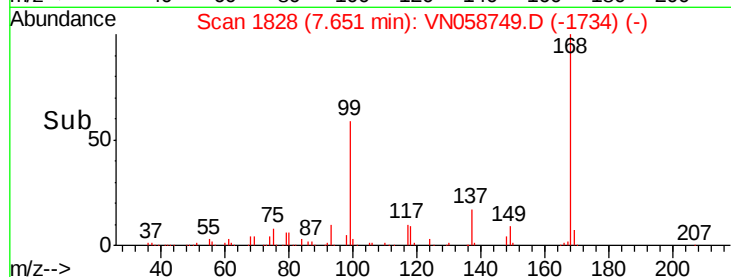
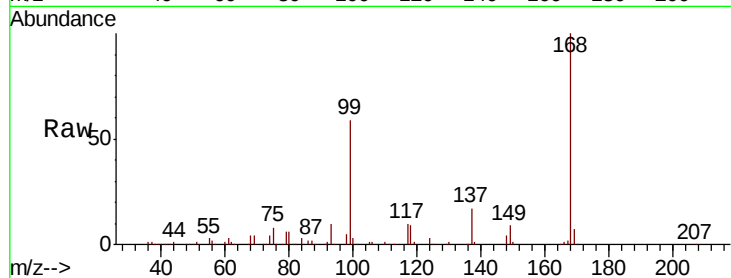
LOD-MDL-WATER-01-QT4-2019

Tot Ion:168 Resp: 378548

Ion Ratio Lower Upper

168 100

99 58.9 47.5 71.3



#3

Chloromethane

Concen: 0.317 ug/l

RT: 2.04 min Scan# 84

Delta R.T. 0.00 min

Lab File: VN058749.D

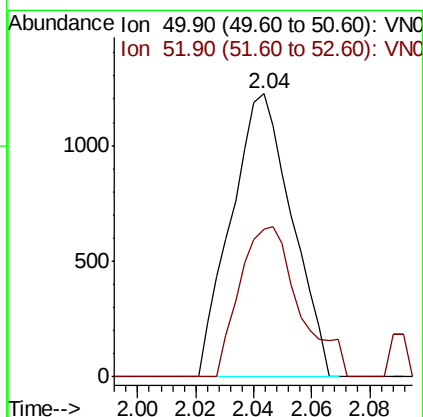
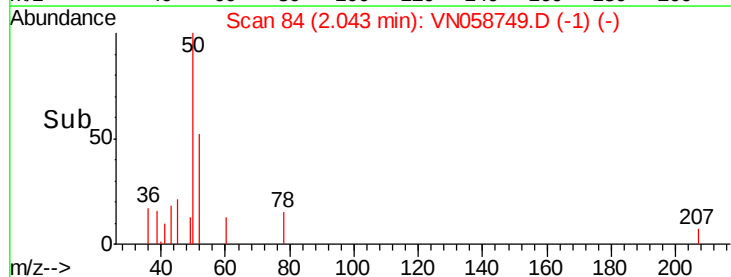
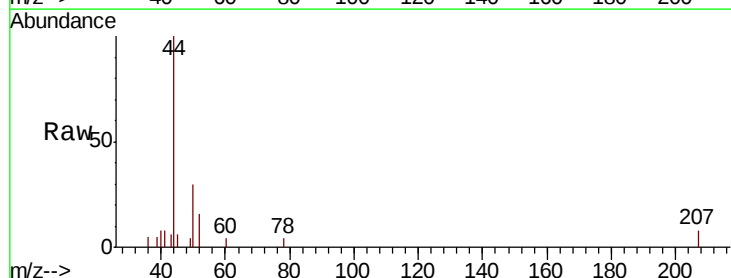
Acq: 14 Oct 2019 15:04

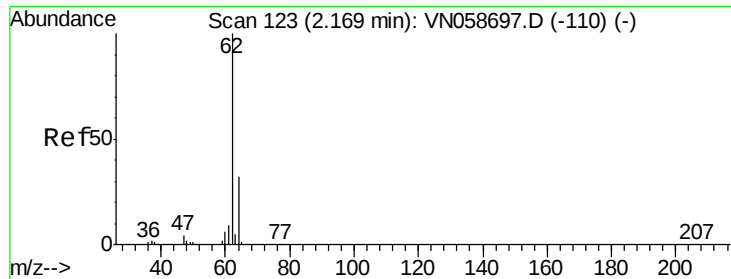
Tgt Ion: 50 Resp: 1776

Ion Ratio Lower Upper

50 100

52 52.2 25.8 38.6#





#4

Vinyl Chloride

Concen: 0.266 ug/l

RT: 2.17 min Scan# 123

Delta R.T. -0.00 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

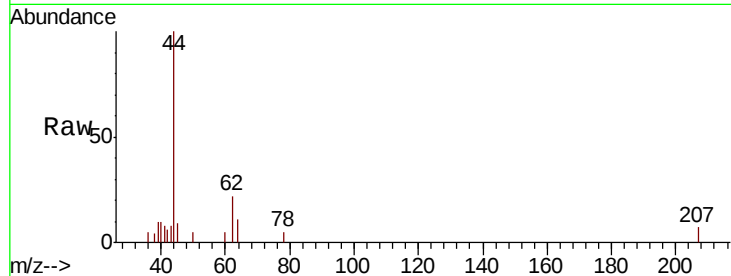
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 62 Resp: 1485

Ion Ratio Lower Upper

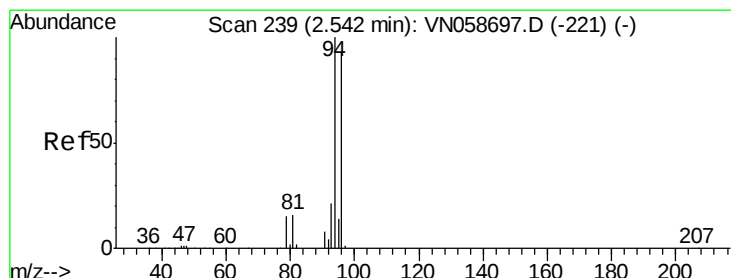
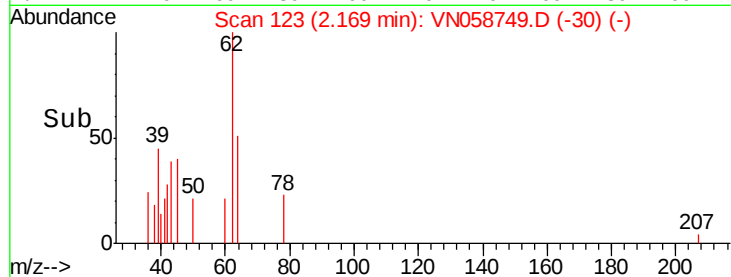
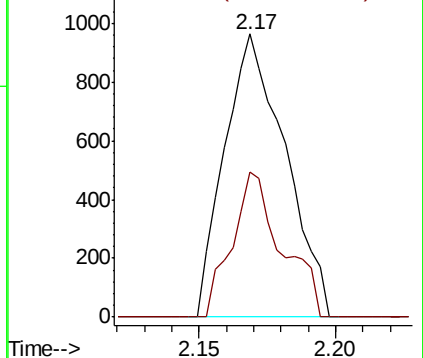
62 100

64 51.3 25.3 37.9#



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC



#5

Bromomethane

Concen: 0.202 ug/l

RT: 2.55 min Scan# 241

Delta R.T. 0.01 min

Lab File: VN058749.D

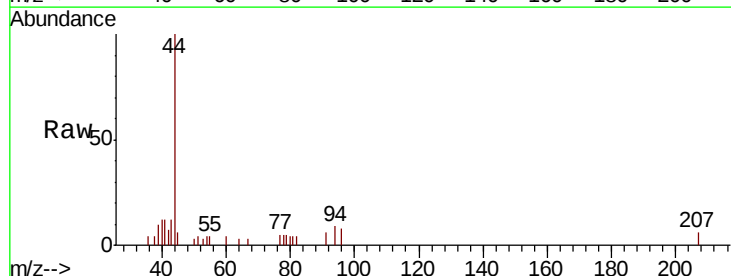
Acq: 14 Oct 2019 15:04

Tgt Ion: 94 Resp: 686

Ion Ratio Lower Upper

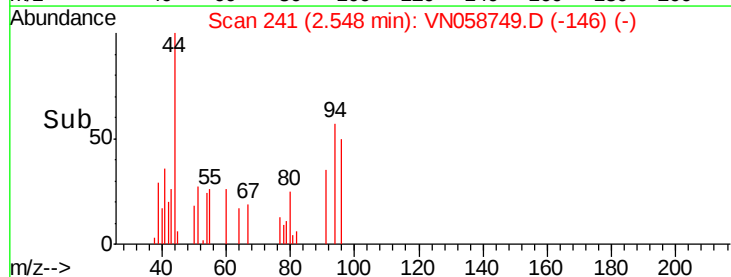
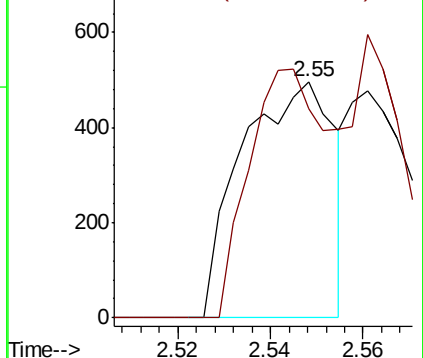
94 100

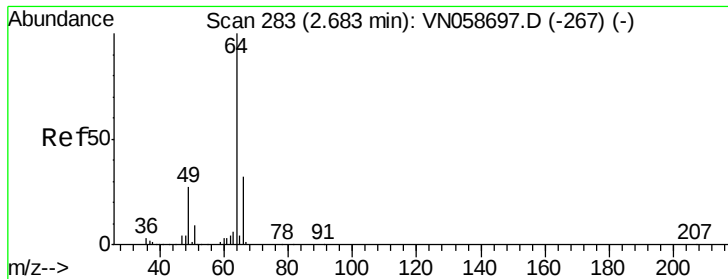
96 88.3 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VNC

Ion 95.90 (95.60 to 96.60): VNC





#6

Chloroethane

Concen: 0.244 ug/l

RT: 2.68 min Scan# 283

Delta R.T. -0.00 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

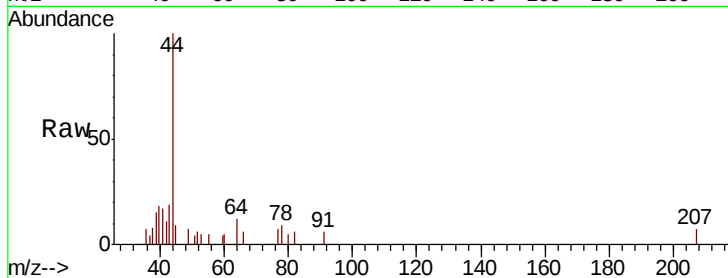
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 64 Resp: 842

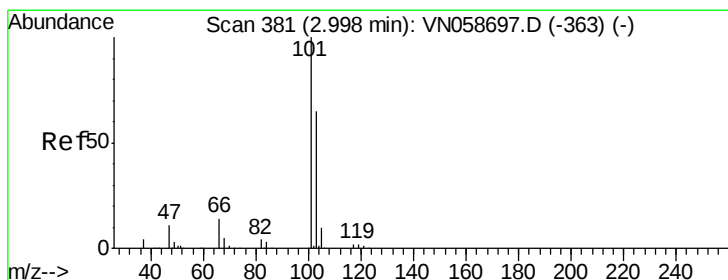
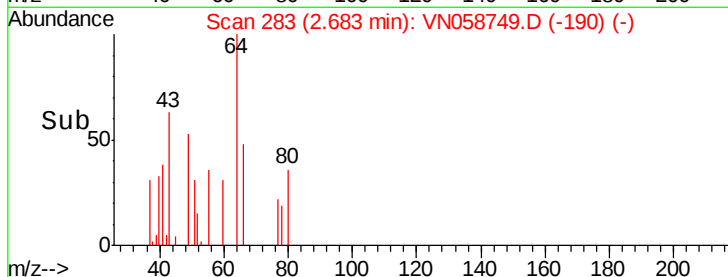
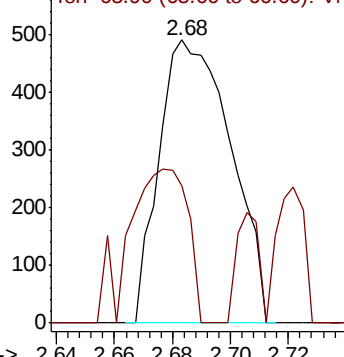
Ion Ratio Lower Upper

64 100

66 17.7 25.4 38.2#



Abundance Ion 63.90 (63.60 to 64.60): VN058749.D (-190) (-)



#7

Trichlorofluoromethane

Concen: 0.237 ug/l

RT: 3.00 min Scan# 380

Delta R.T. -0.00 min

Lab File: VN058749.D

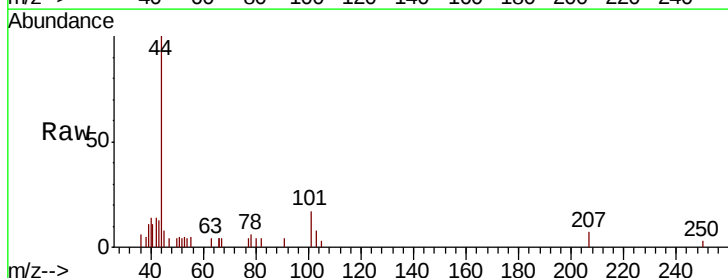
Acq: 14 Oct 2019 15:04

Tgt Ion: 101 Resp: 1582

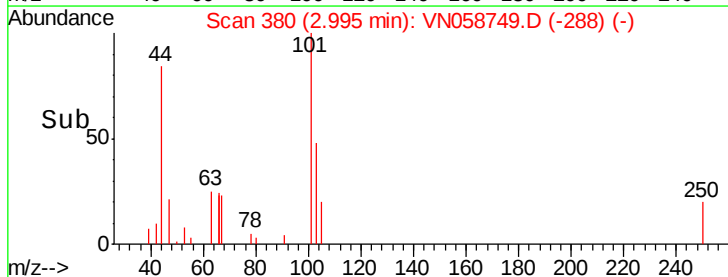
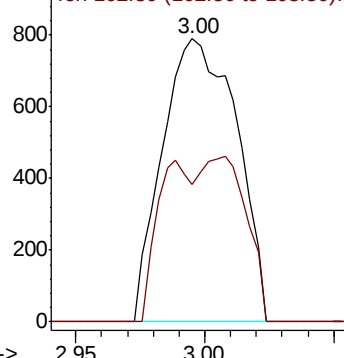
Ion Ratio Lower Upper

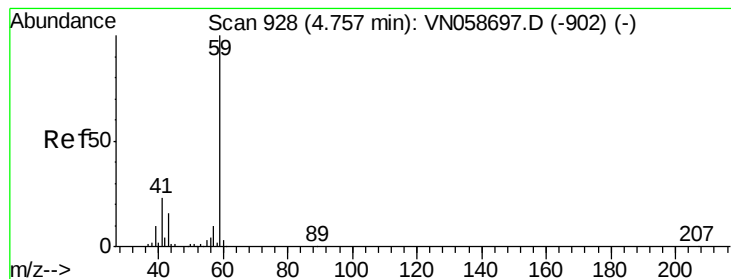
101 100

103 48.5 51.8 77.6#



Abundance Ion 100.90 (100.60 to 101.60): VN058749.D (-288) (-)



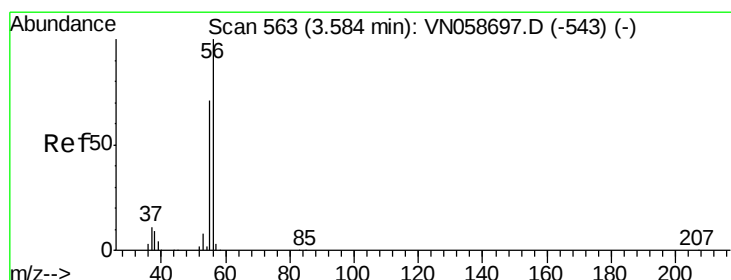
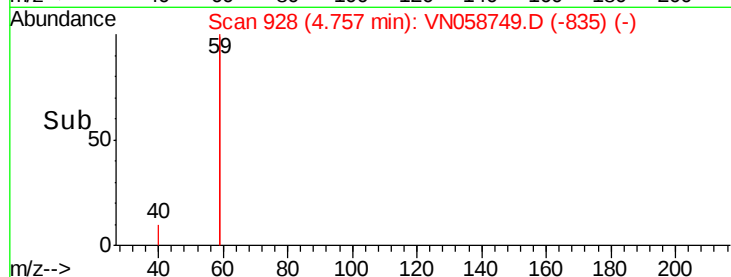
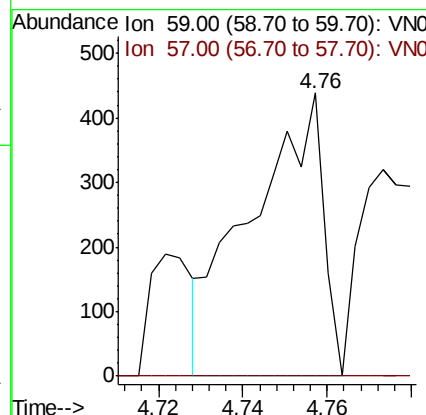
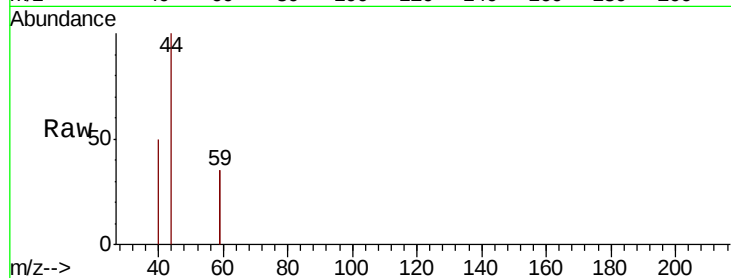


#11

Tert butyl alcohol
 Concen: 0.606 ug/l
 RT: 4.76 min Scan# 928
 Delta R.T. -0.00 min
 Lab File: VN058749.D
 Acq: 14 Oct 2019 15:04

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

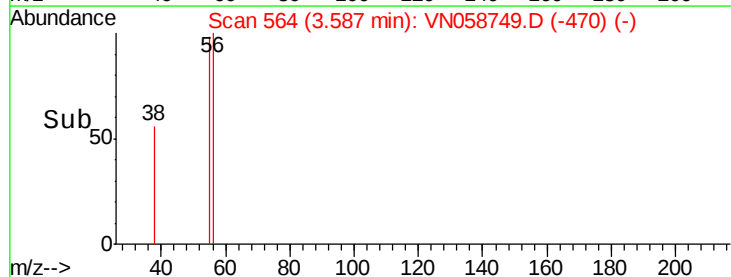
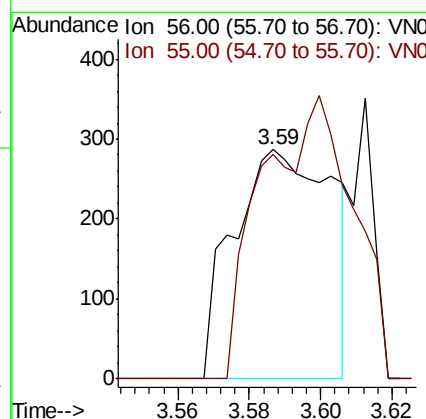
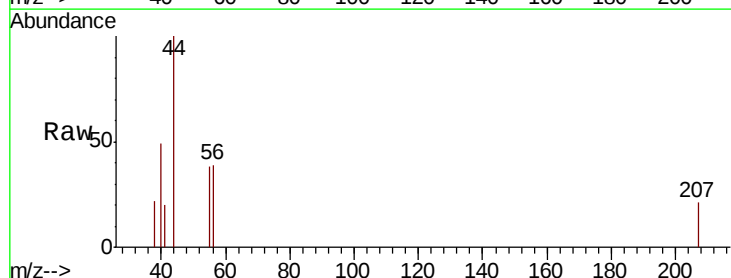
Tot Ion: 59 Resp: 520
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

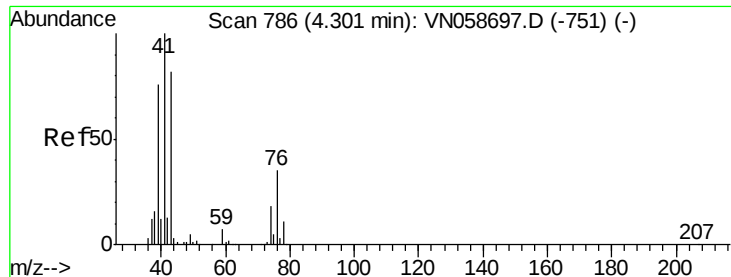


#13

Acrolein
 Concen: 0.788 ug/l
 RT: 3.59 min Scan# 564
 Delta R.T. 0.00 min
 Lab File: VN058749.D
 Acq: 14 Oct 2019 15:04

Tgt Ion: 56 Resp: 544
 Ion Ratio Lower Upper
 56 100
 55 114.0 56.7 85.1#





#14

Allvl chloride

Concen: 0.266 ug/l

RT: 4.31 min Scan# 788

Delta R.T. 0.01 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

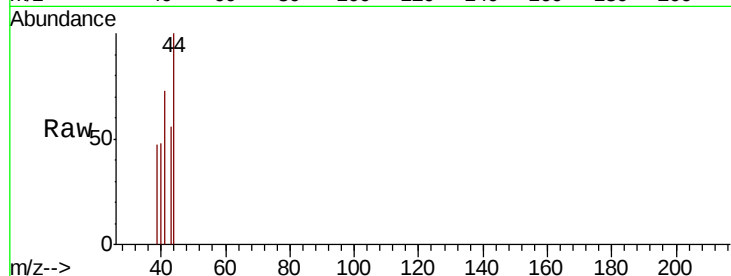
Tot Ion: 41 Resp: 1949

Ion Ratio Lower Upper

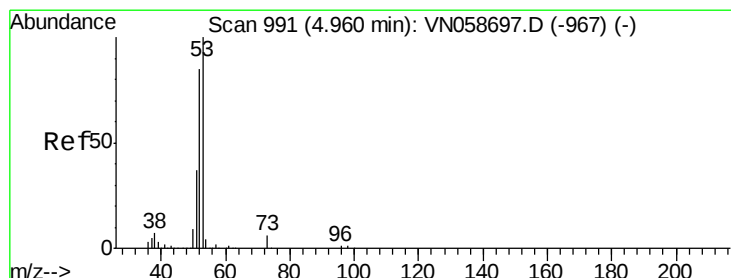
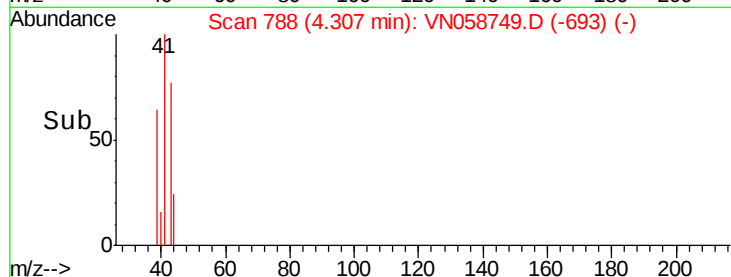
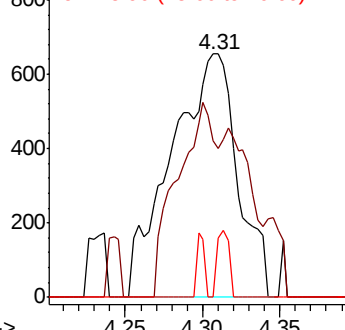
41 100

39 47.2 57.2 85.8#

76 4.9 25.0 37.6#



Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 75.90 (75.60 to 76.60): VN0



#15

Acrylonitrile

Concen: 0.622 ug/l

RT: 4.98 min Scan# 998

Delta R.T. 0.02 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

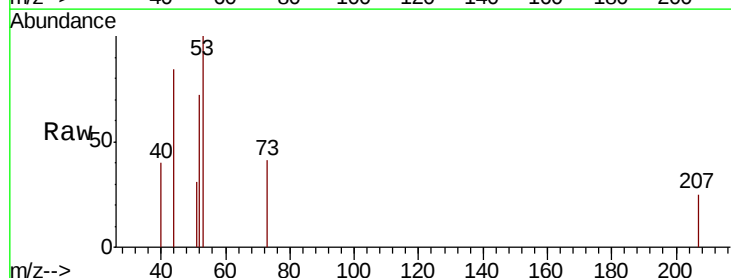
Tgt Ion: 53 Resp: 1346

Ion Ratio Lower Upper

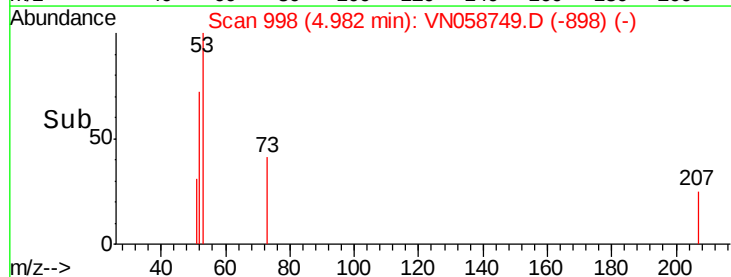
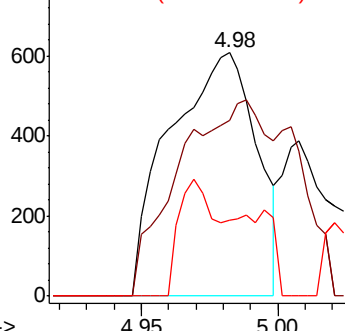
53 100

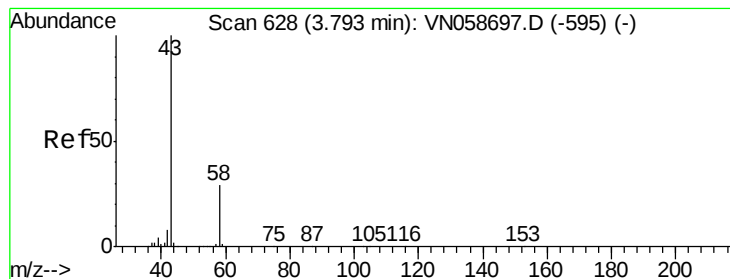
52 82.5 66.2 99.2

51 19.5 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: 1.425 ug/l

RT: 3.81 min Scan# 633

Delta R.T. 0.02 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

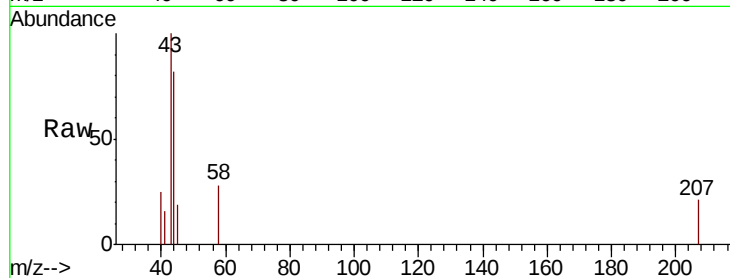
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 43 Resp: 3126

Ion Ratio Lower Upper

43 100

58 28.5 23.3 34.9



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

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

3.81

1200

1000

800

600

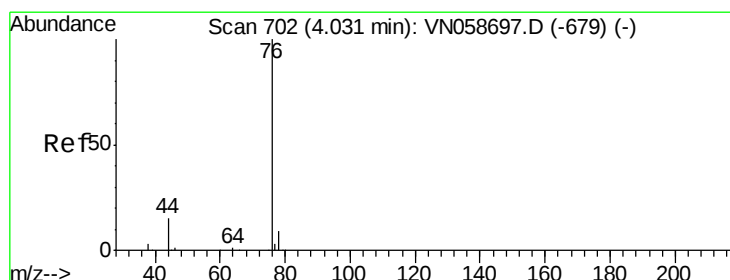
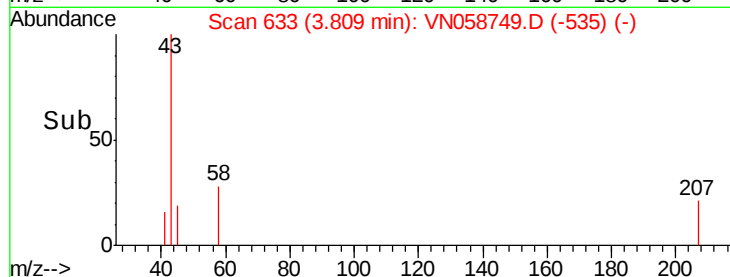
400

200

0

3.75 3.80 3.85

Time-->



#17

Carbon Disulfide

Concen: 0.280 ug/l

RT: 4.03 min Scan# 702

Delta R.T. -0.00 min

Lab File: VN058749.D

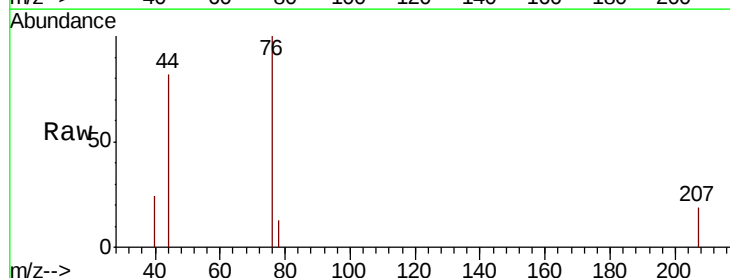
Acq: 14 Oct 2019 15:04

Tgt Ion: 76 Resp: 3258

Ion Ratio Lower Upper

76 100

78 12.8 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN058697.D (-679) (-)

Ion 77.90 (77.60 to 78.60): VN058697.D (-679) (-)

4.03

1500

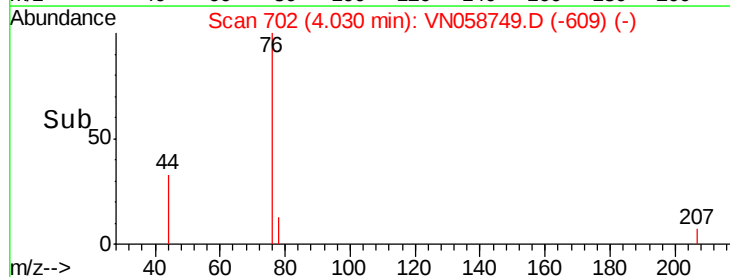
1000

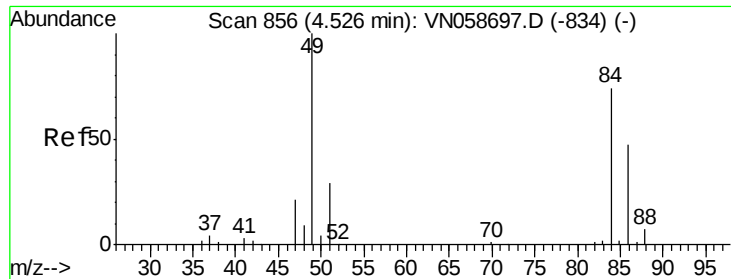
500

0

4.00 4.05

Time-->





#20

Methylene Chloride

Concen: 0.340 ug/l

RT: 4.53 min Scan# 858

Delta R.T. 0.01 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tot Ion: 84 Resp: 1557

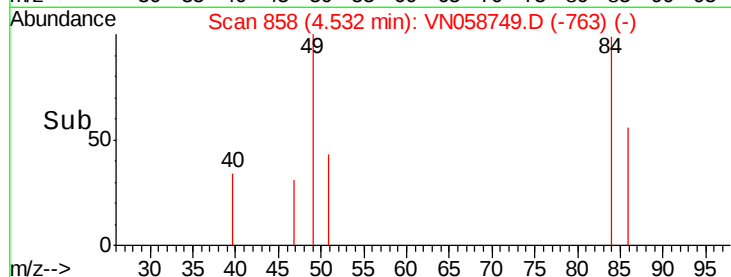
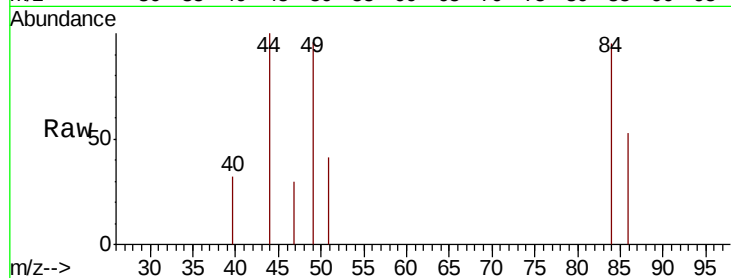
Ion Ratio Lower Upper

84 100

49 63.3 107.6 161.4#

51 43.6 31.4 47.0

86 56.2 50.3 75.5

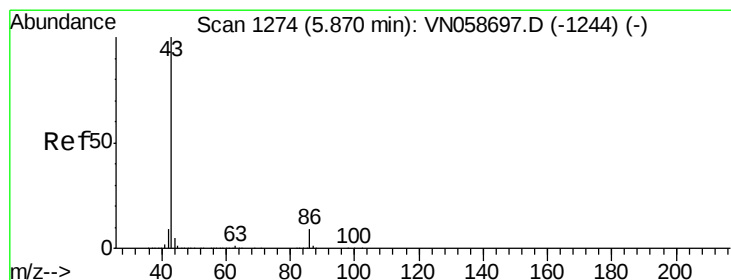
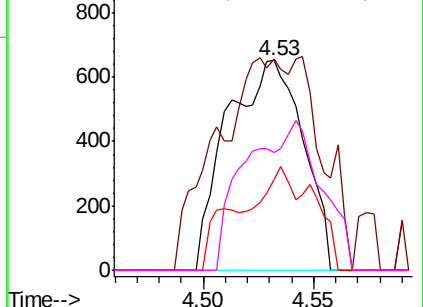


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#23

Vinyl Acetate

Concen: 0.883 ug/l

RT: 5.89 min Scan# 1279

Delta R.T. 0.02 min

Lab File: VN058749.D

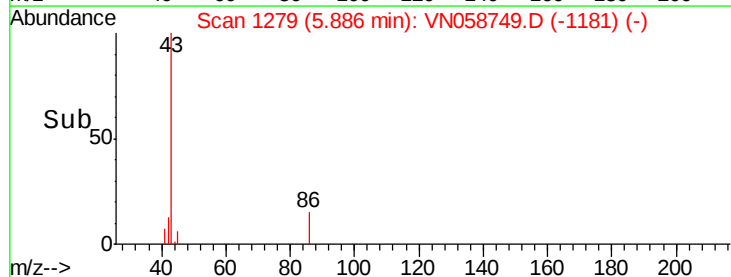
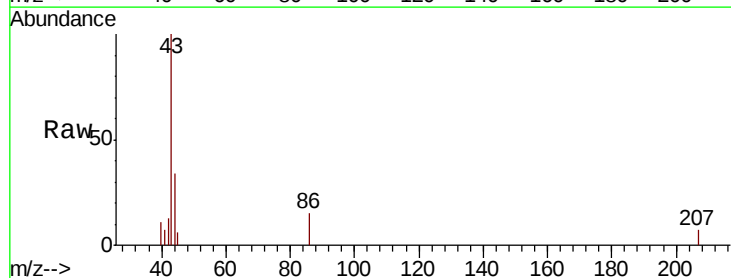
Acq: 14 Oct 2019 15:04

Tgt Ion: 43 Resp: 10165

Ion Ratio Lower Upper

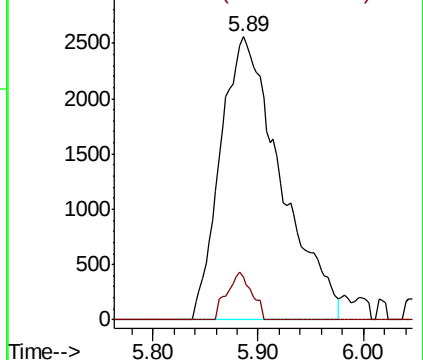
43 100

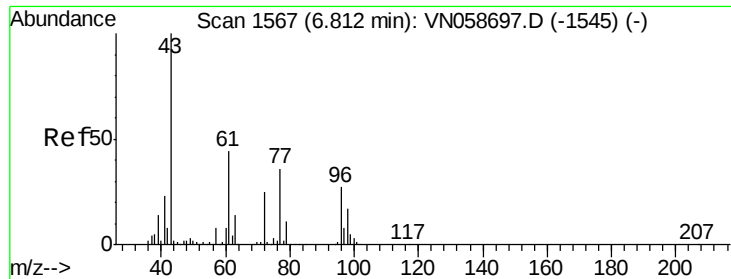
86 15.3 7.4 11.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

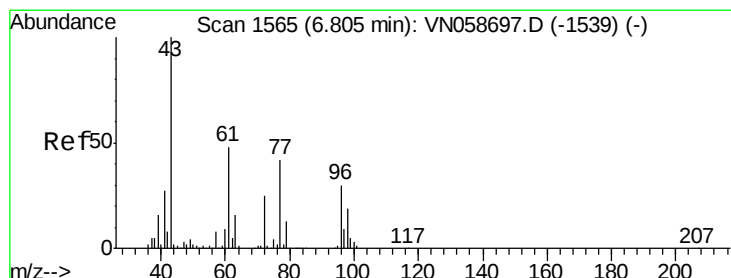
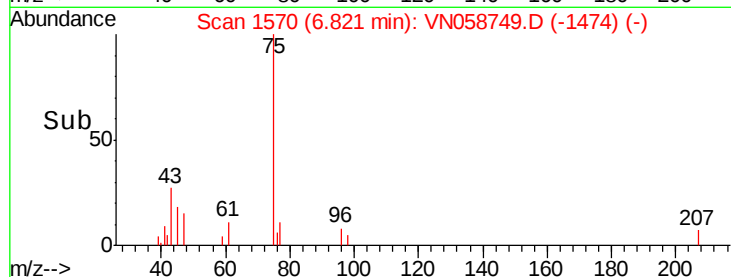
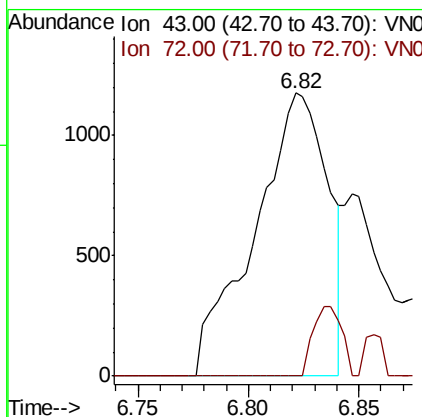
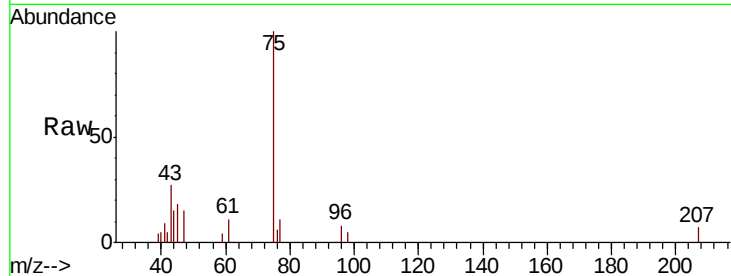




#25
 2-Butanone
 Concen: 0.852 ug/l
 RT: 6.82 min Scan# 1570
 Delta R.T. 0.01 min
 Lab File: VN058749.D
 Acq: 14 Oct 2019 15:04

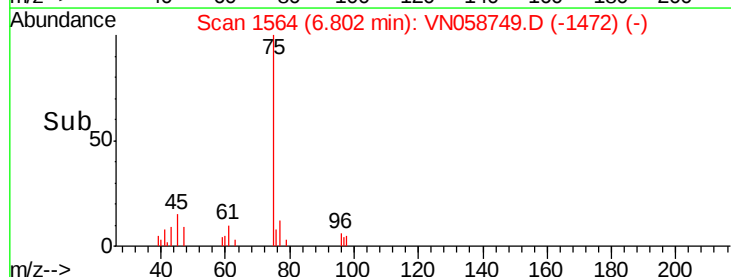
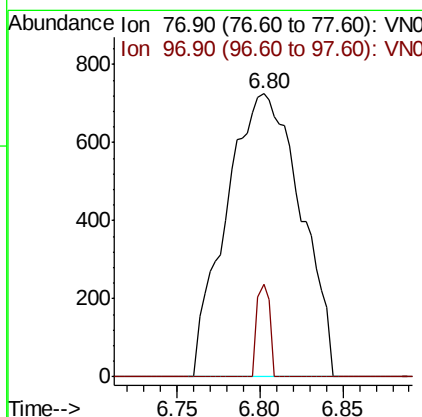
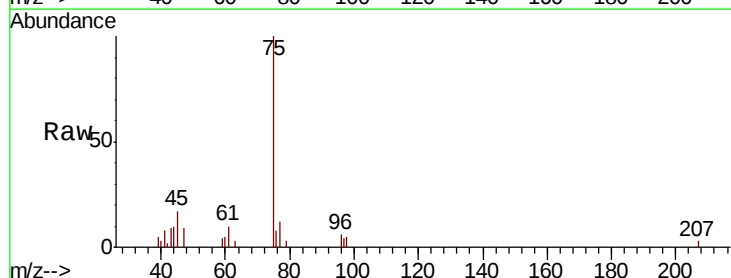
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

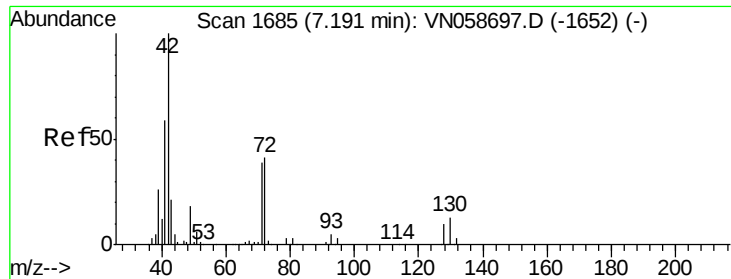
Tot Ion: 43 Resp: 2702
 Ion Ratio Lower Upper
 43 100
 72 0.0 20.2 30.2#



#26
 2,2-Dichloropropane
 Concen: 0.304 ug/l
 RT: 6.80 min Scan# 1564
 Delta R.T. -0.00 min
 Lab File: VN058749.D
 Acq: 14 Oct 2019 15:04

Tgt Ion: 77 Resp: 2256
 Ion Ratio Lower Upper
 77 100
 97 5.5 10.7 31.9#

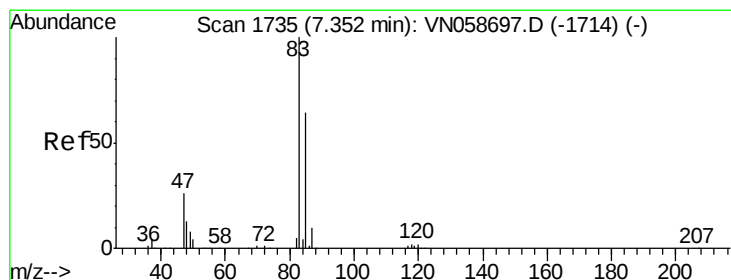
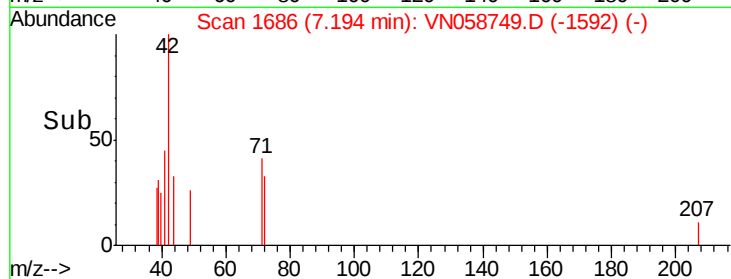
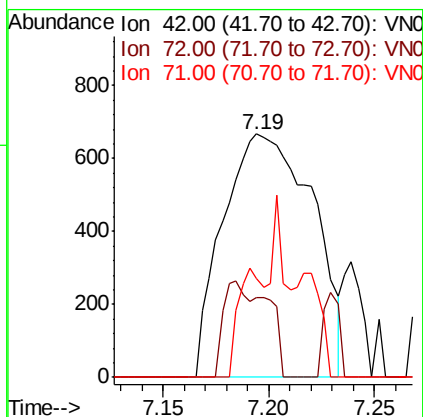
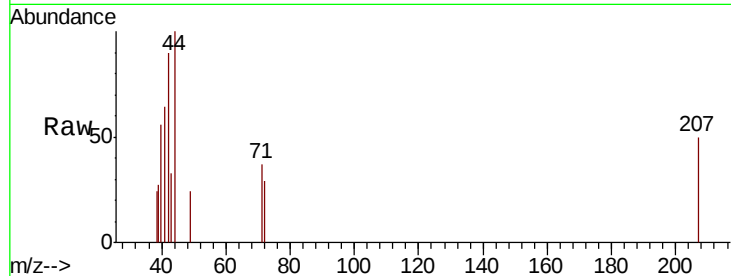




#29
Tetrahydrofuran
Concen: 0.964 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VN058749.D
Acq: 14 Oct 2019 15:04

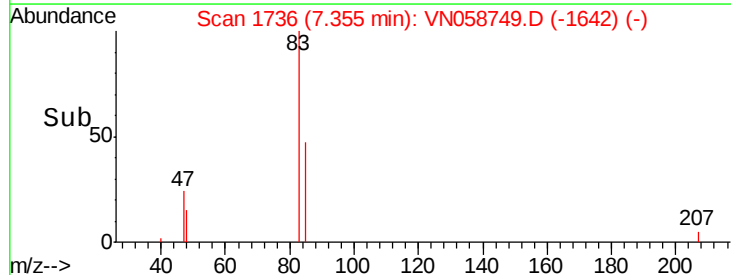
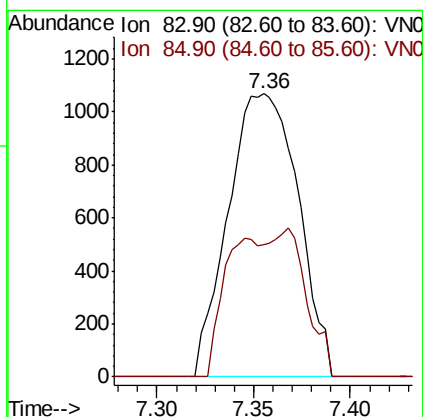
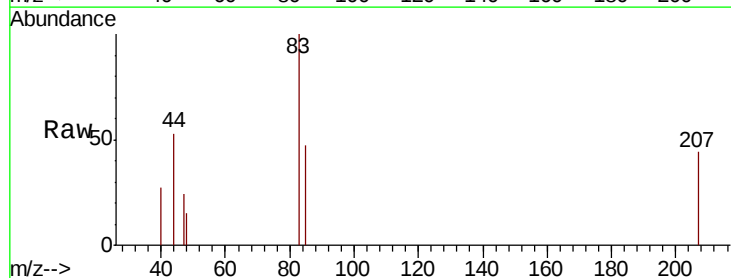
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

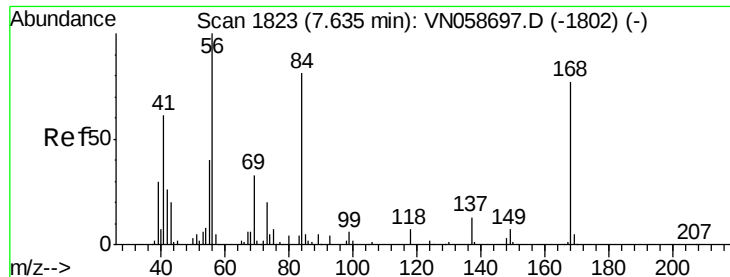
Tot Ion: 42 Resp: 1976
Ion Ratio Lower Upper
42 100
72 11.1 32.8 49.2#
71 12.3 31.1 46.7#



#30
Chloroform
Concen: 0.329 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. 0.00 min
Lab File: VN058749.D
Acq: 14 Oct 2019 15:04

Tgt Ion: 83 Resp: 2685
Ion Ratio Lower Upper
83 100
85 46.8 51.0 76.6#

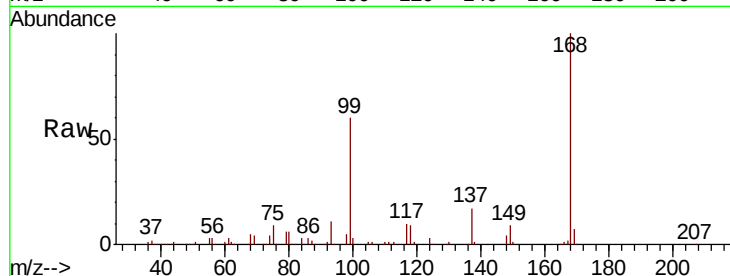




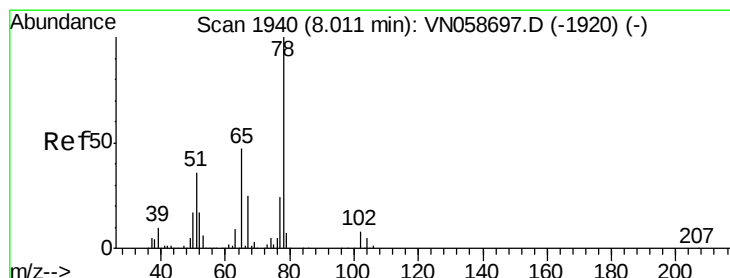
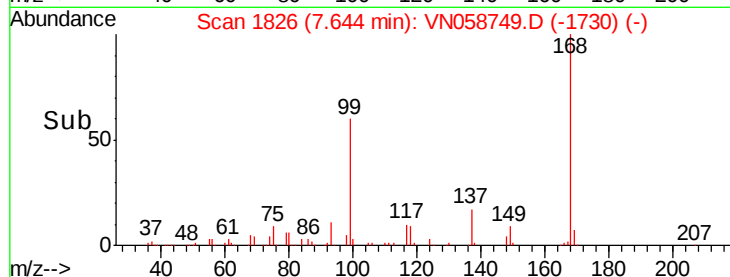
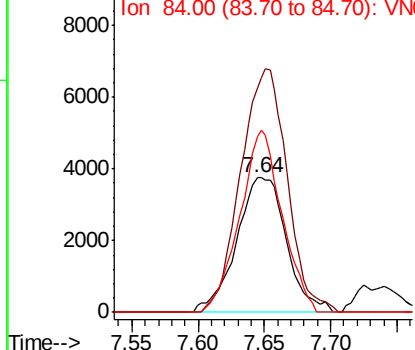
#31
Cyclohexane
Concen: 1.266 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN058749.D
Acq: 14 Oct 2019 15:04

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

Tot Ion: 56 Resp: 9839
Ion Ratio Lower Upper
56 100
69 166.5 26.2 39.4#
84 130.4 64.9 97.3#

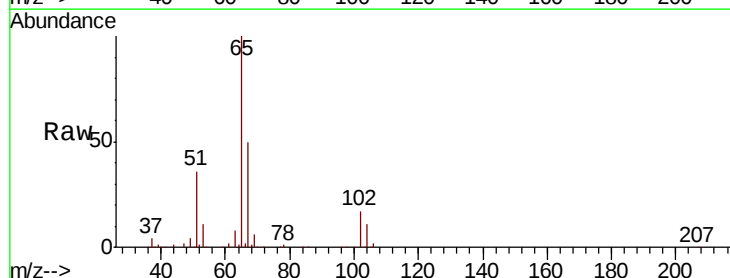


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

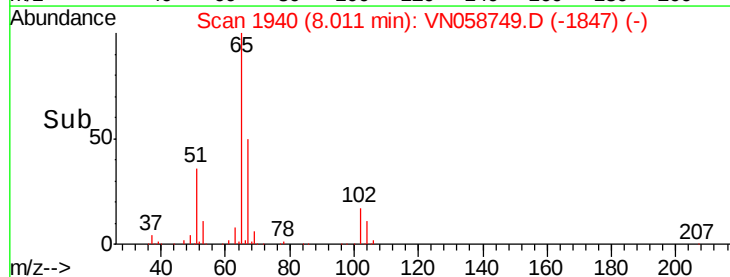
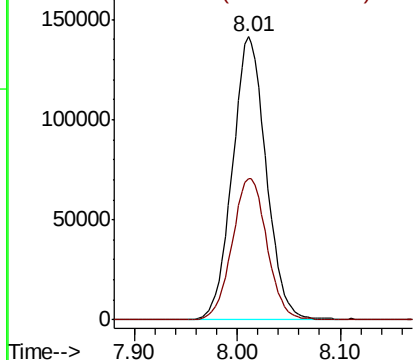


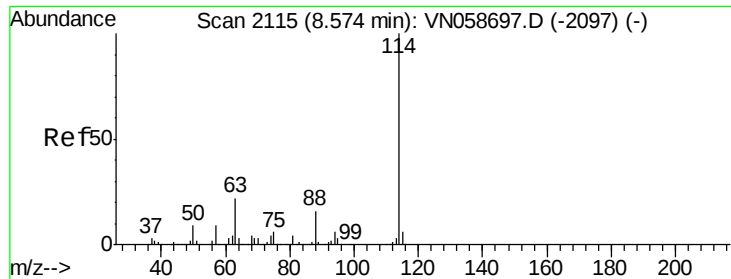
#33
1,2-Dichloroethane-d4
Concen: 60.697 ug/l
RT: 8.01 min Scan# 1940
Delta R.T. -0.00 min
Lab File: VN058749.D
Acq: 14 Oct 2019 15:04

Tgt Ion: 65 Resp: 321668
Ion Ratio Lower Upper
65 100
67 51.6 0.0 103.8



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

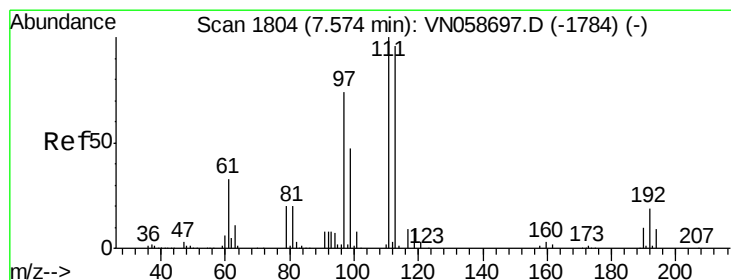
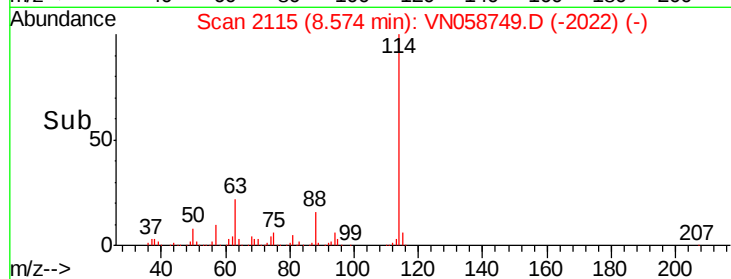
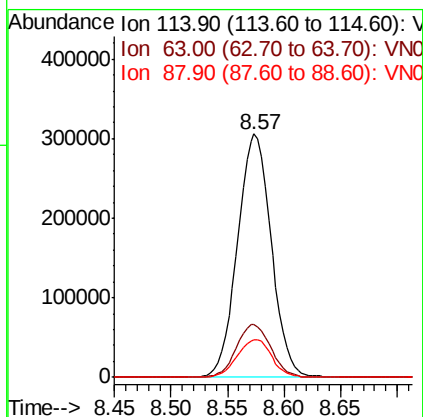
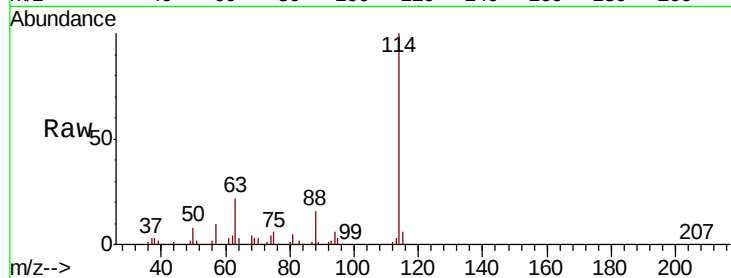




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058749.D
 Acq: 14 Oct 2019 15:04

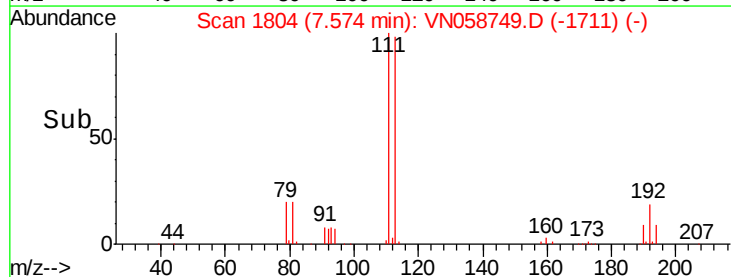
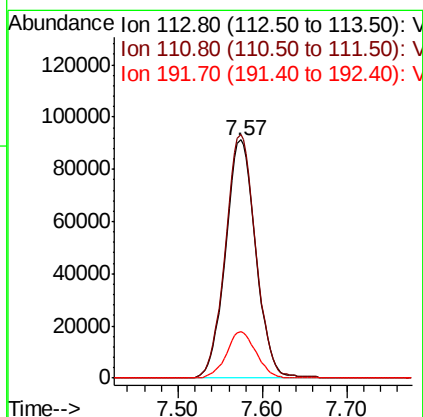
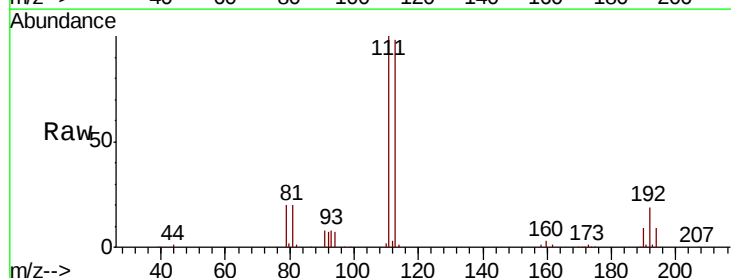
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

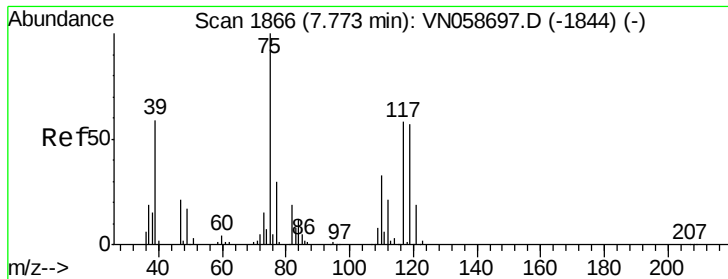
Tot Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	43.8
88	15.6	0.0	32.0



#35
 Dibromofluoromethane
 Concen: 57.819 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058749.D
 Acq: 14 Oct 2019 15:04

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.3	123.5
192	19.1	15.0	22.6

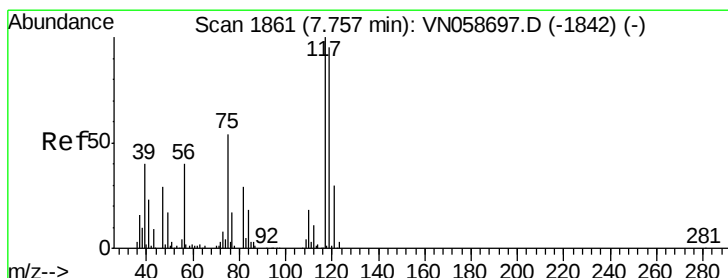
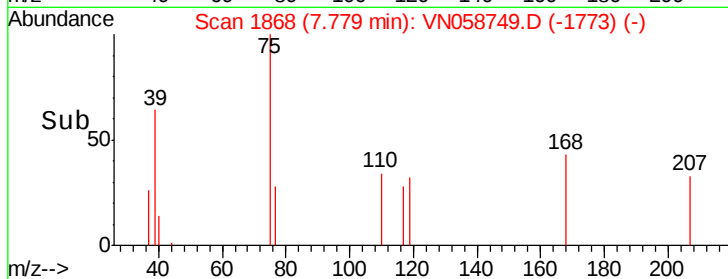
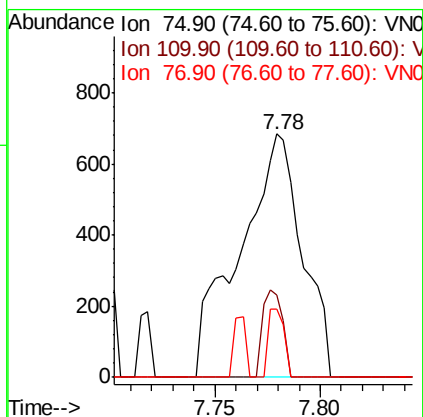
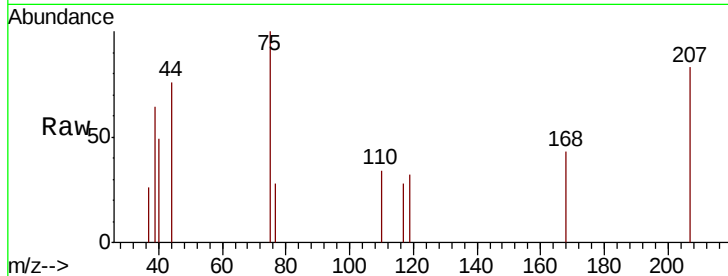




#36
 1,1-Dichloropropene
 Concen: 0.220 ug/l
 RT: 7.78 min Scan# 1868
 Delta R.T. 0.01 min
 Lab File: VN058749.D
 Acq: 14 Oct 2019 15:04

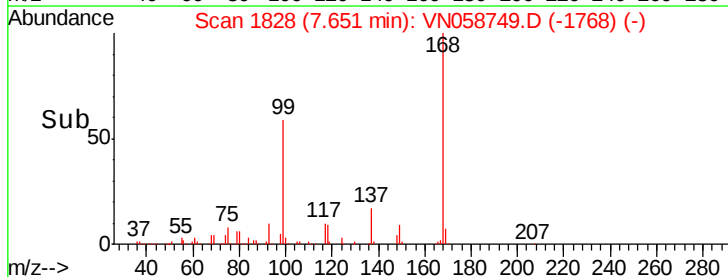
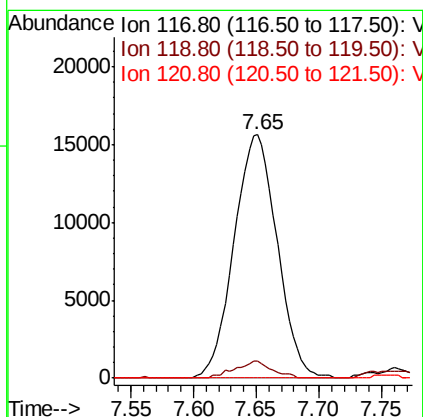
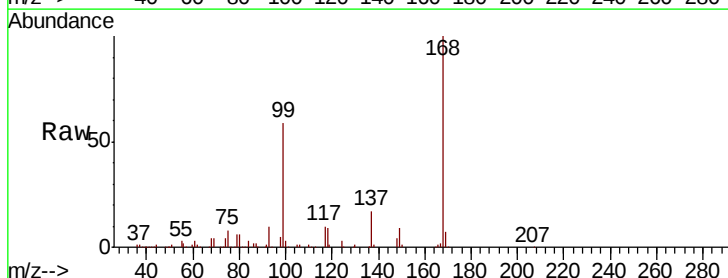
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

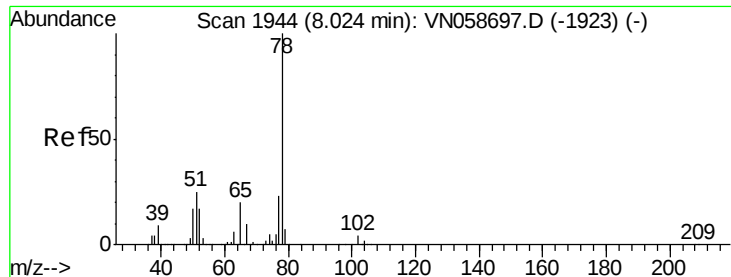
Tot Ion: 75 Resp: 1415
 Ion Ratio Lower Upper
 75 100
 110 11.4 16.6 49.8#
 77 7.3 24.6 37.0#



#38
 Carbon Tetrachloride
 Concen: 5.956 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN058749.D
 Acq: 14 Oct 2019 15:04

Tgt Ion: 117 Resp: 37372
 Ion Ratio Lower Upper
 117 100
 119 6.8 75.7 113.5#
 121 0.0 23.9 35.9#





#40

Benzene

Concen: 0.221 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.01 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

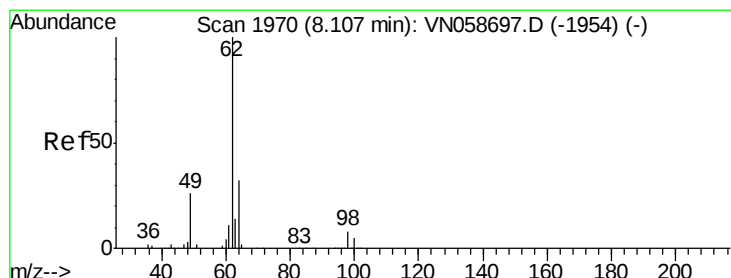
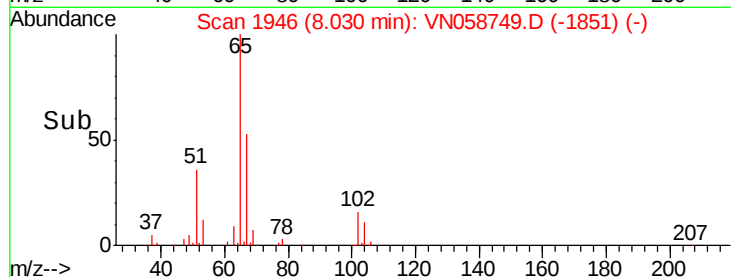
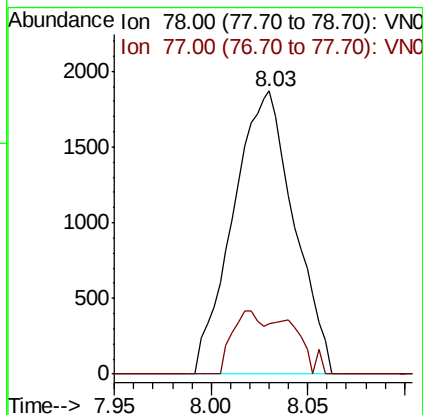
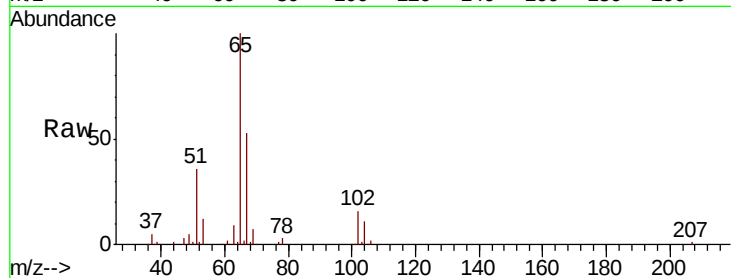
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 78 Resp: 4087

Ion Ratio Lower Upper

78 100

77 17.7 18.8 28.2#



#42

1,2-Dichloroethane

Concen: 0.303 ug/l

RT: 8.12 min Scan# 1973

Delta R.T. 0.01 min

Lab File: VN058749.D

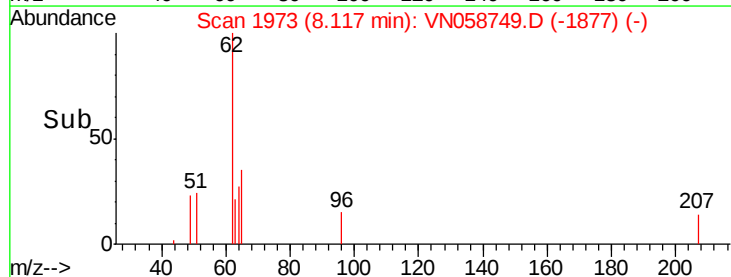
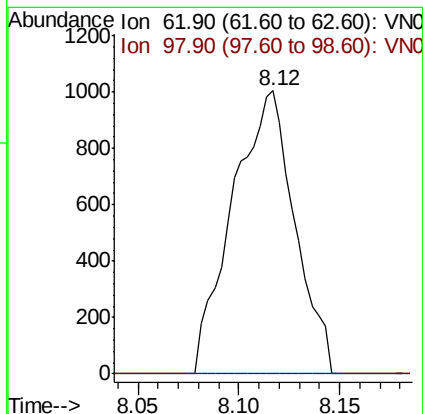
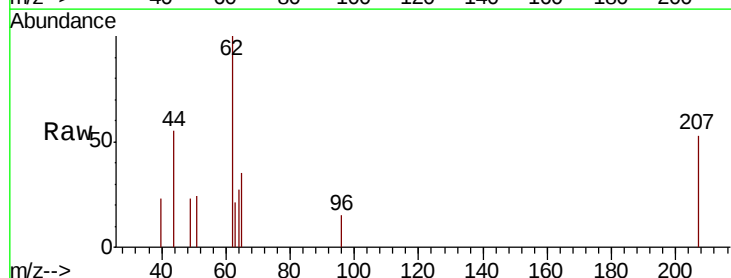
Acq: 14 Oct 2019 15:04

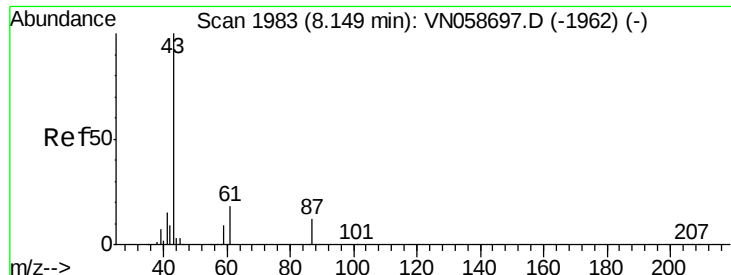
Tgt Ion: 62 Resp: 2154

Ion Ratio Lower Upper

62 100

98 0.0 0.0 15.8





#43

Isopropyl Acetate

Concen: 0.202 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.01 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

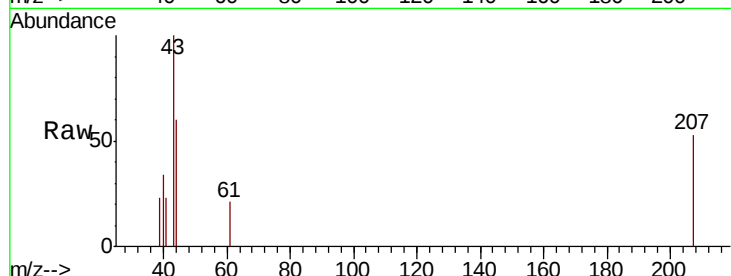
Tot Ion: 43 Resp: 2243

Ion Ratio Lower Upper

43 100

61 0.0 20.3 30.5#

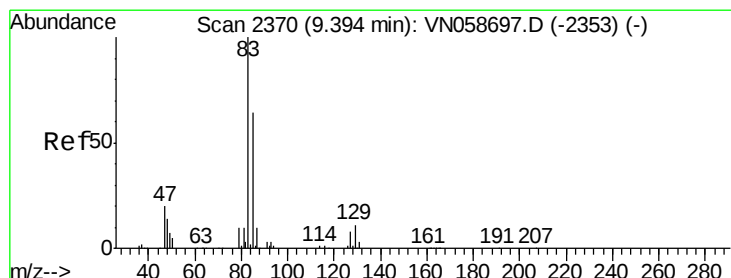
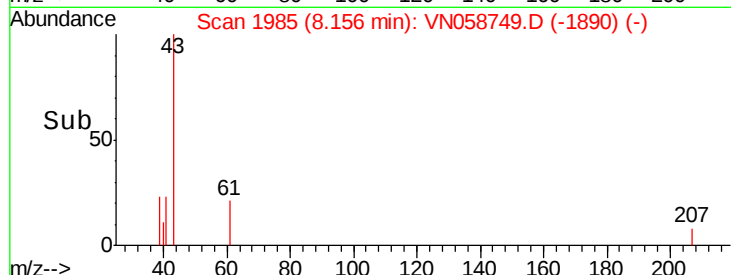
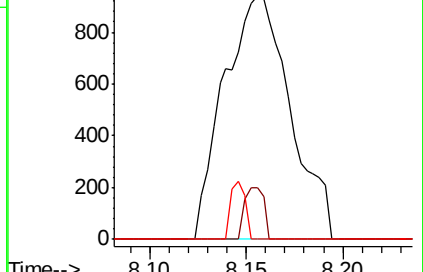
87 5.1 9.8 14.6#



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

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

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



#47

Bromodichloromethane

Concen: 0.226 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. -0.00 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

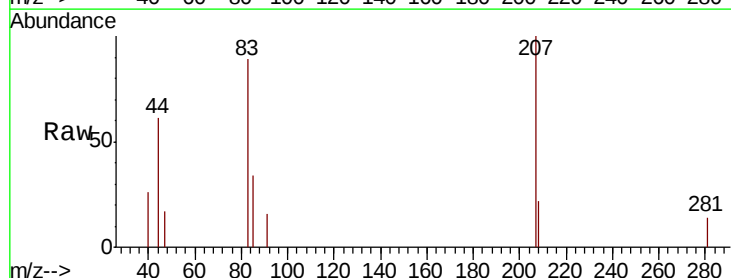
Tgt Ion: 83 Resp: 1442

Ion Ratio Lower Upper

83 100

85 38.0 50.9 76.3#

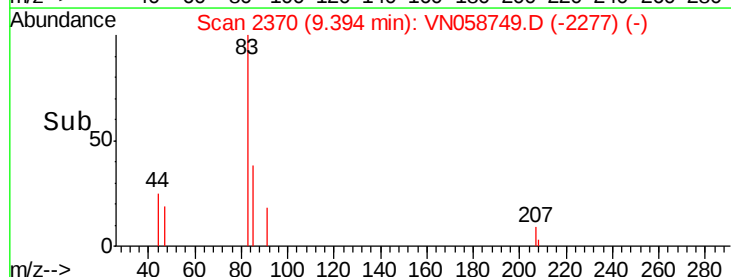
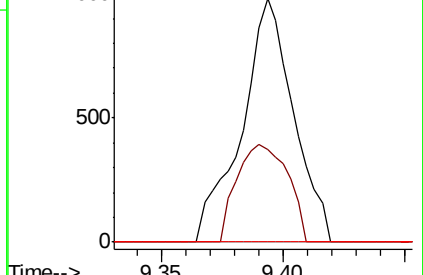
127 0.0 6.3 9.5#

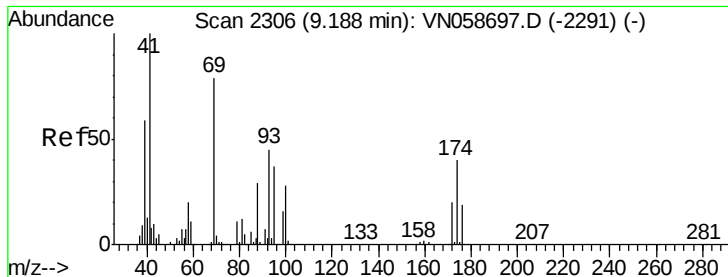


Abundance Ion 82.90 (82.60 to 83.60): VN058697.D (-2353) (-)

Ion 84.90 (84.60 to 85.60): VN058697.D (-2353) (-)

Ion 126.80 (126.50 to 127.50): VN058697.D (-2353) (-)

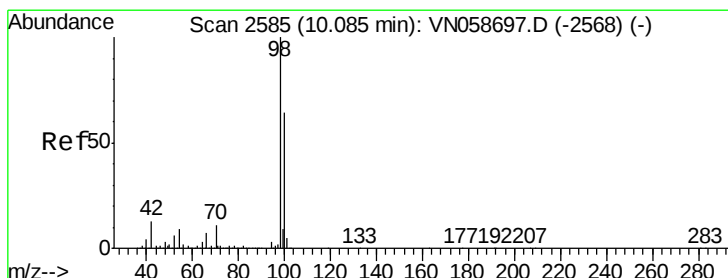
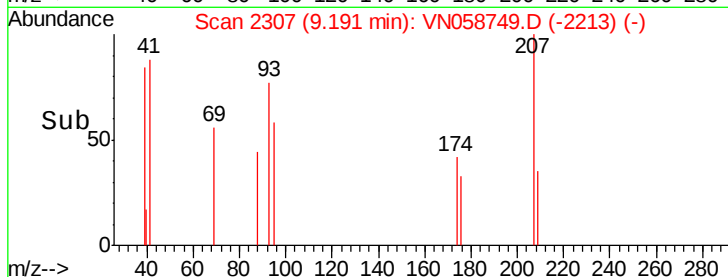
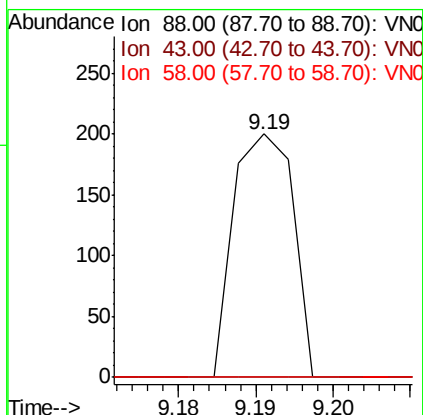
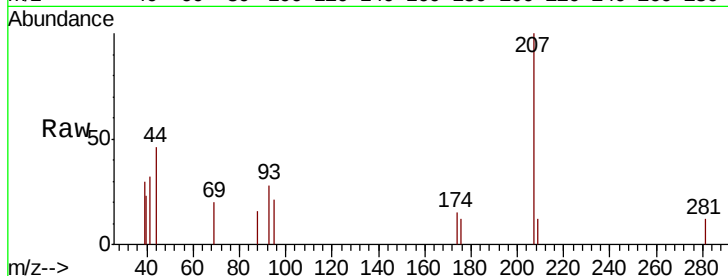




#49
 1,4-Dioxane
 Concen: 1.376 ug/l
 RT: 9.19 min Scan# 2307
 Delta R.T. 0.00 min
 Lab File: VN058749.D
 Acq: 14 Oct 2019 15:04

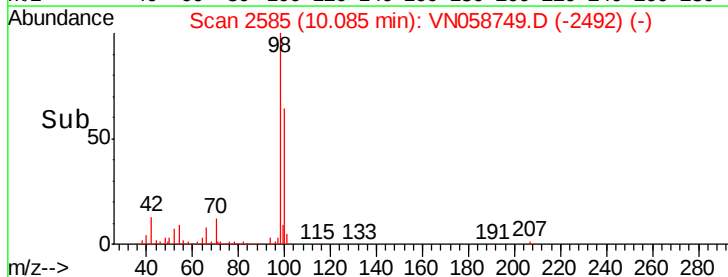
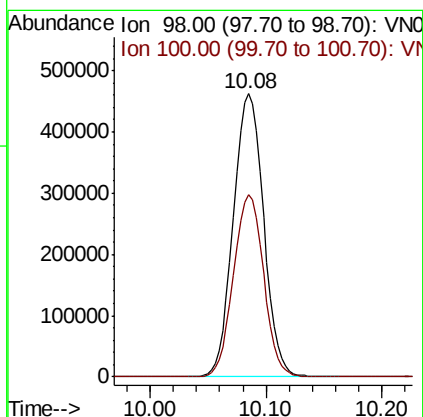
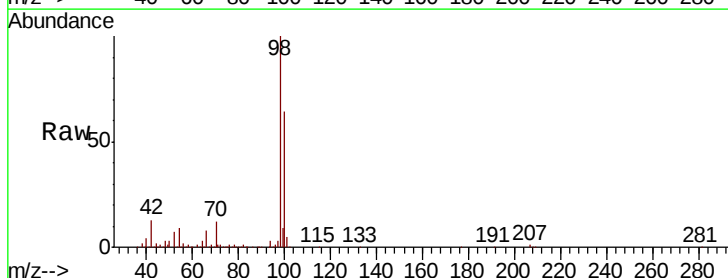
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

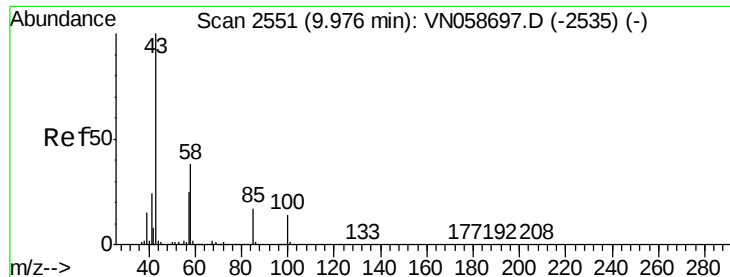
Tot Ion: 88 Resp: 107
 Ion Ratio Lower Upper
 88 100
 43 0.0 28.6 43.0#
 58 0.0 57.2 85.8#



#50
 Toluene-d8
 Concen: 53.376 ug/l
 RT: 10.08 min Scan# 2585
 Delta R.T. -0.00 min
 Lab File: VN058749.D
 Acq: 14 Oct 2019 15:04

Tgt Ion: 98 Resp: 839503
 Ion Ratio Lower Upper
 98 100
 100 64.2 51.1 76.7





#51

4-Methyl-2-Pentanone

Concen: 0.972 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

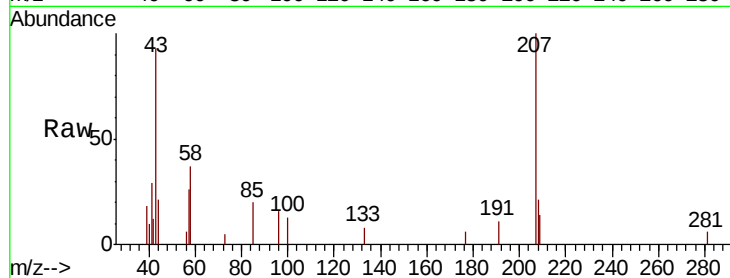
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 43 Resp: 6056

Ion Ratio Lower Upper

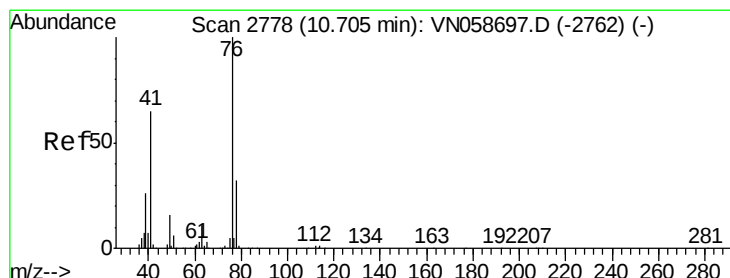
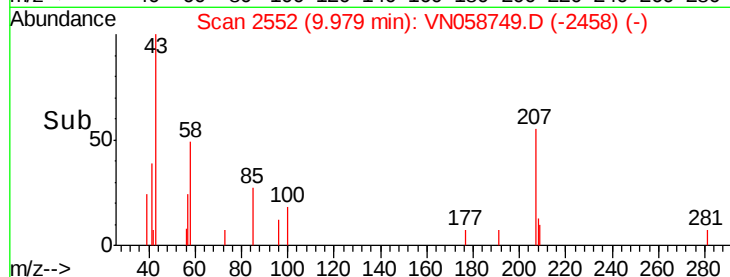
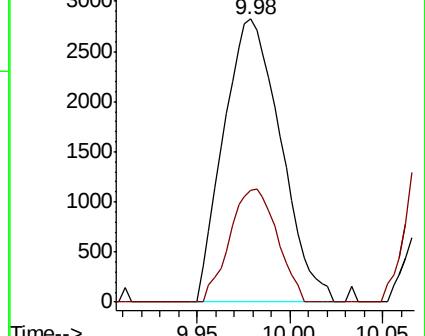
43 100

58 33.2 30.3 45.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#57

1,3-Dichloropropane

Concen: 0.203 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. -0.00 min

Lab File: VN058749.D

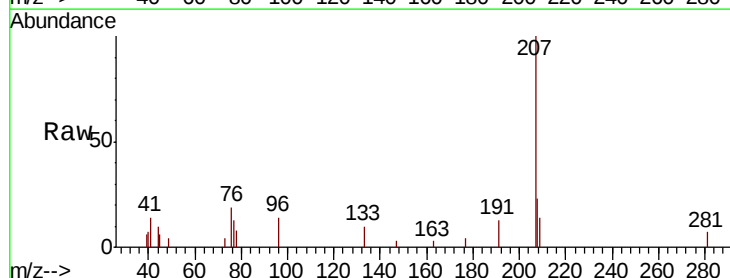
Acq: 14 Oct 2019 15:04

Tgt Ion: 76 Resp: 1603

Ion Ratio Lower Upper

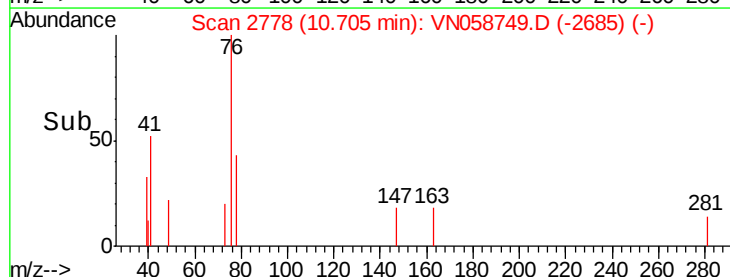
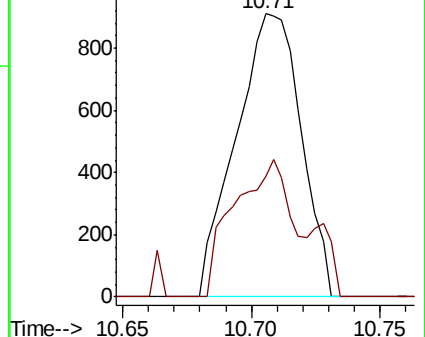
76 100

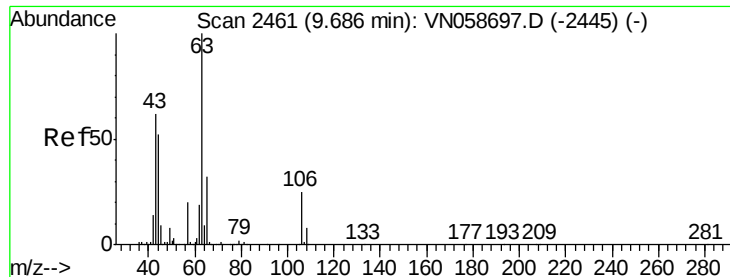
78 43.9 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#58

2-Chloroethyl Vinyl ether

Concen: 0.716 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. 0.01 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

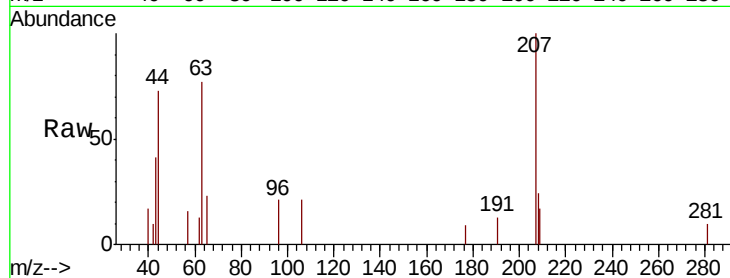
LOD-MDL-WATER-01-QT4-2019

Tot Ion: 63 Resp: 2334

Ion Ratio Lower Upper

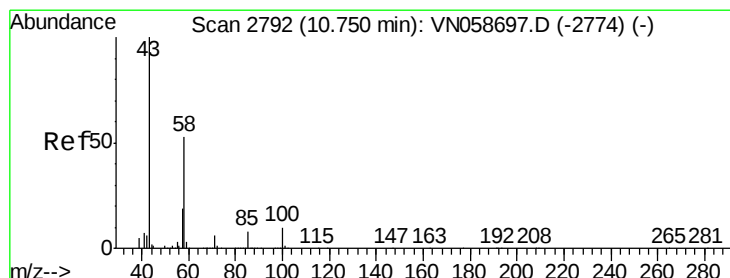
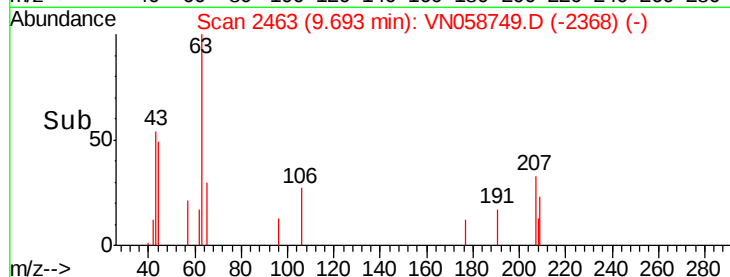
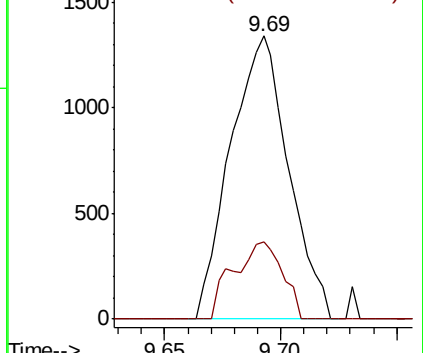
63 100

106 23.1 20.0 30.0



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): VN0



#59

2-Hexanone

Concen: 1.000 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VN058749.D

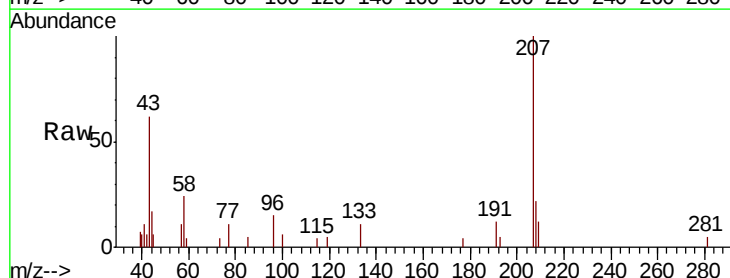
Acq: 14 Oct 2019 15:04

Tgt Ion: 43 Resp: 4812

Ion Ratio Lower Upper

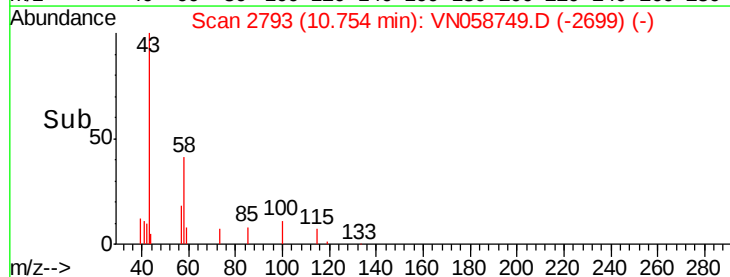
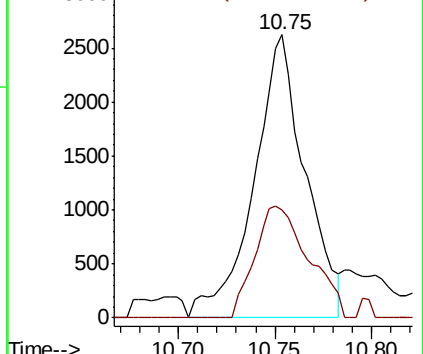
43 100

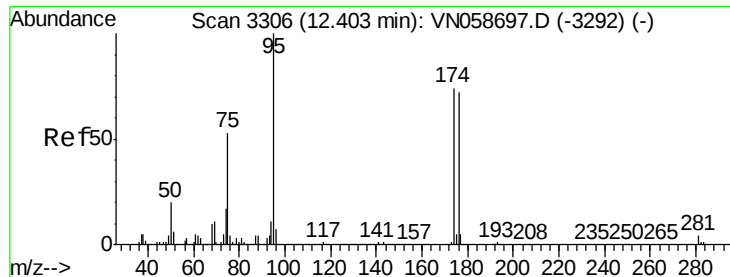
58 41.6 26.1 78.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 47.657 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

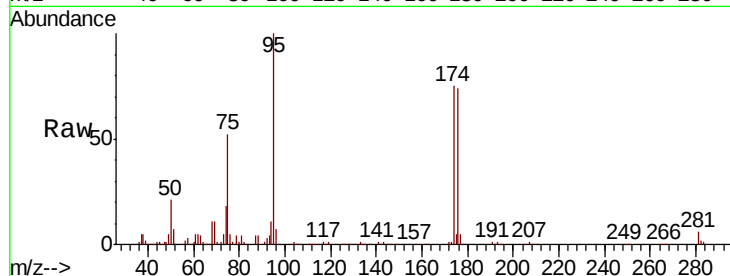
Tot Ion: 95 Resp: 283724

Ion Ratio Lower Upper

95 100

174 76.3 0.0 150.4

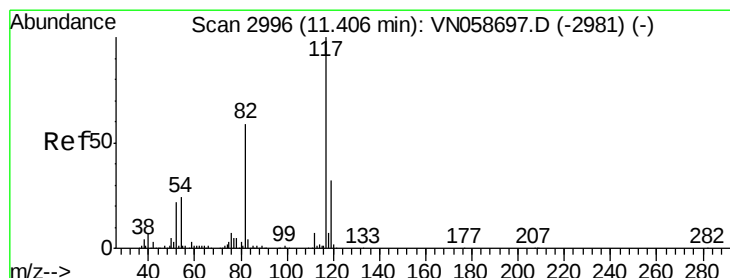
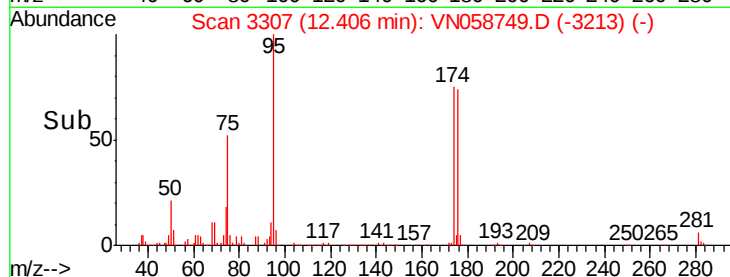
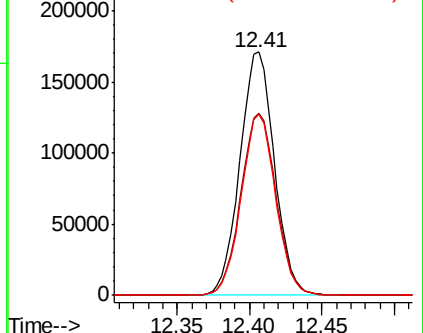
176 74.0 0.0 146.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

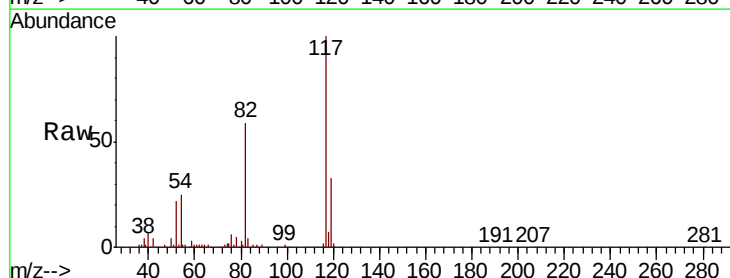
Tgt Ion: 117 Resp: 570059

Ion Ratio Lower Upper

117 100

82 58.7 47.0 70.4

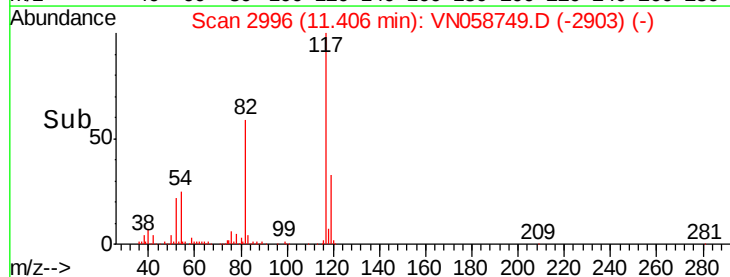
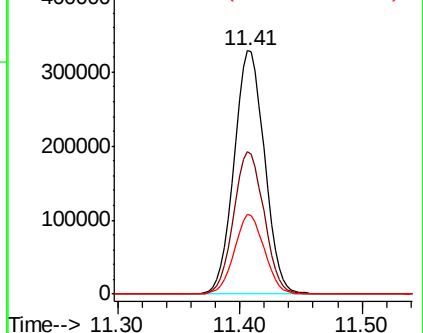
119 32.5 25.4 38.2

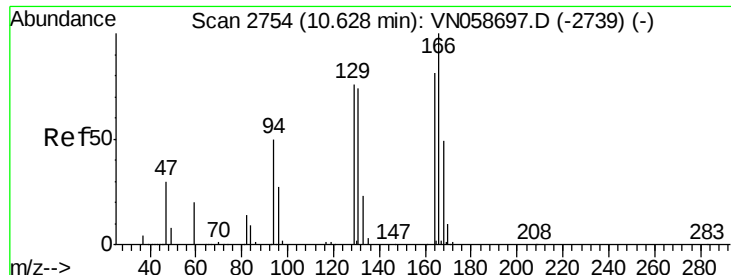


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0

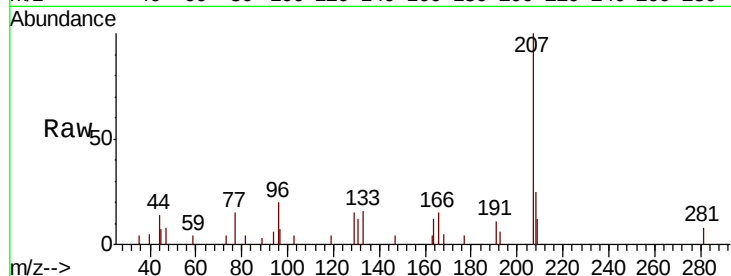




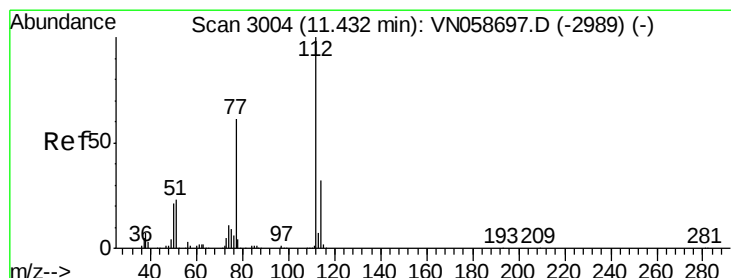
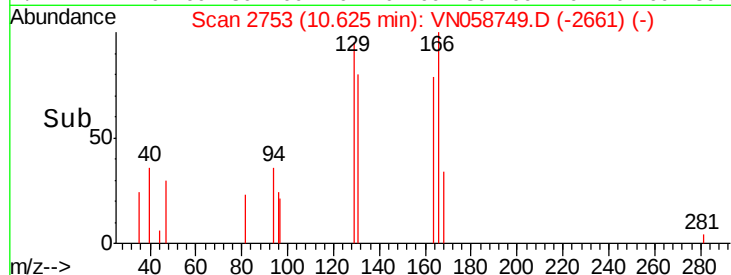
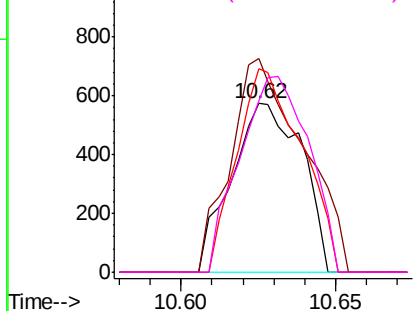
#64
Tetrachloroethene
Concen: 0.228 ug/l
RT: 10.62 min Scan# 2753
Delta R.T. -0.00 min
Lab File: VN058749.D
Acq: 14 Oct 2019 15:04

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

Tot Ion:164 Resp: 911
Ion Ratio Lower Upper
164 100
166 126.7 99.3 148.9
129 120.9 75.2 112.8#
131 101.6 73.0 109.4

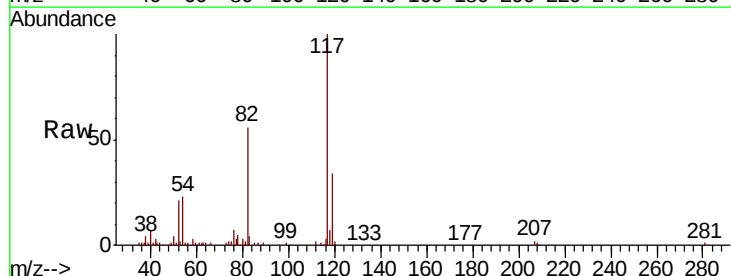


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

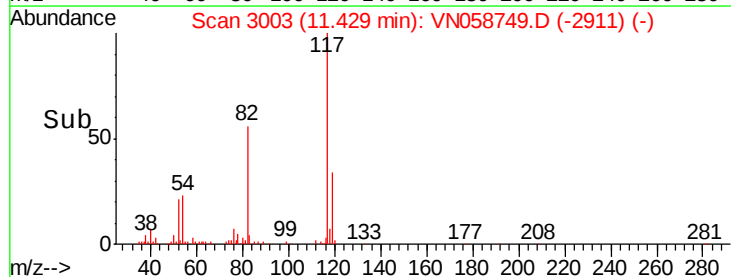
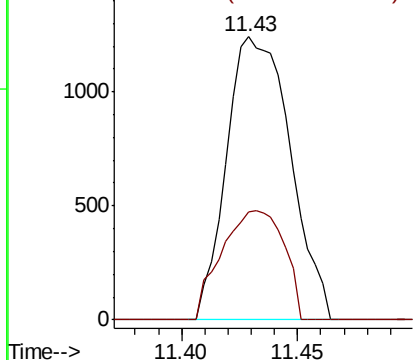


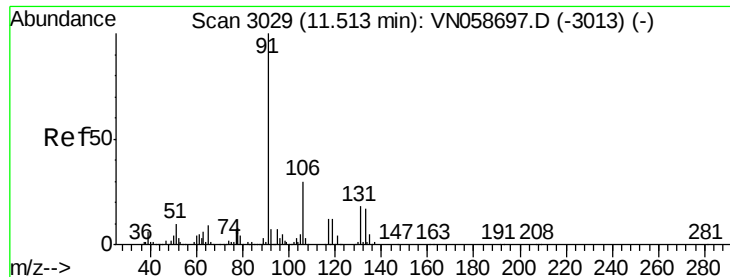
#65
Chlorobenzene
Concen: 0.205 ug/l
RT: 11.43 min Scan# 3003
Delta R.T. -0.00 min
Lab File: VN058749.D
Acq: 14 Oct 2019 15:04

Tgt Ion:112 Resp: 2368
Ion Ratio Lower Upper
112 100
114 38.0 25.2 37.8#



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V

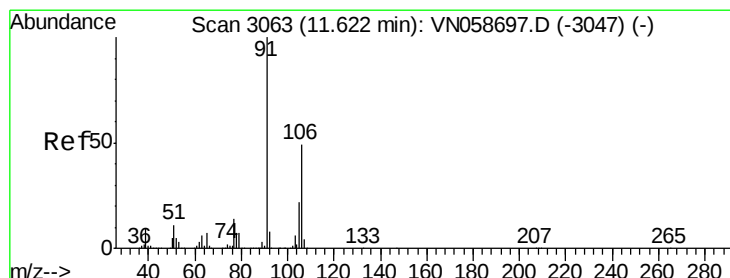
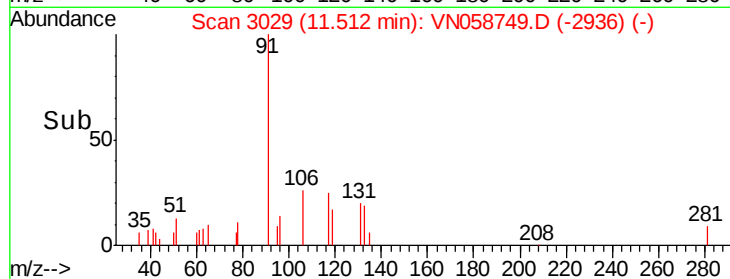
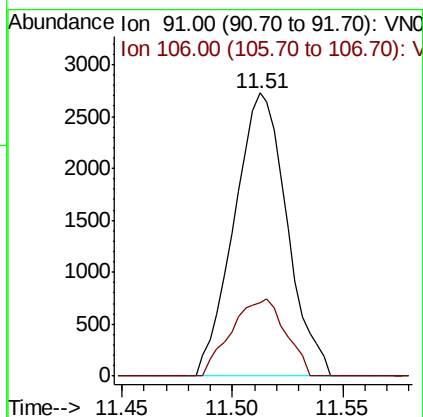
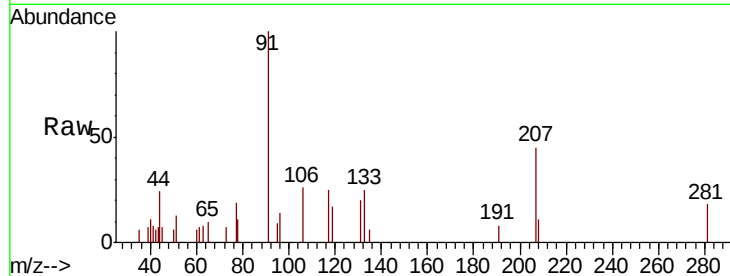




#67
Ethyl Benzene
Concen: 0.220 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. -0.00 min
Lab File: VN058749.D
Acq: 14 Oct 2019 15:04

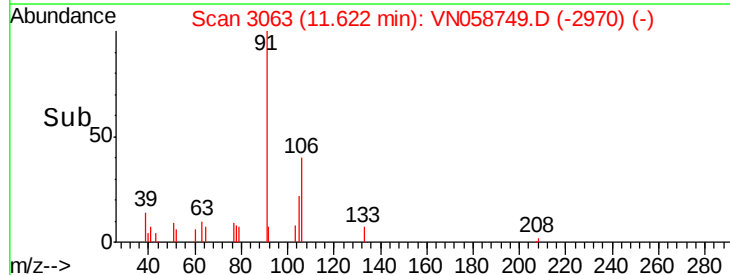
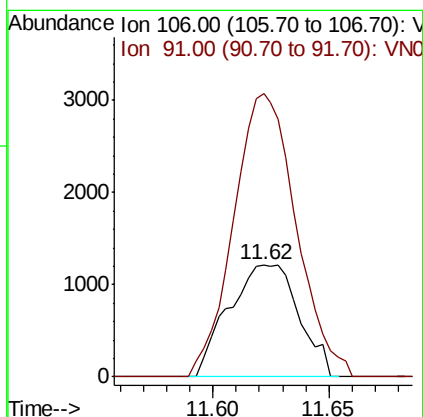
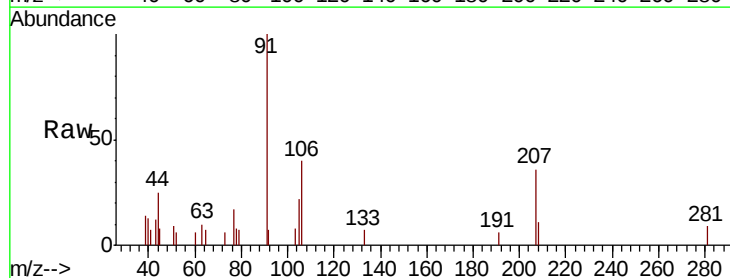
Instrument :
MSVOA_N
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

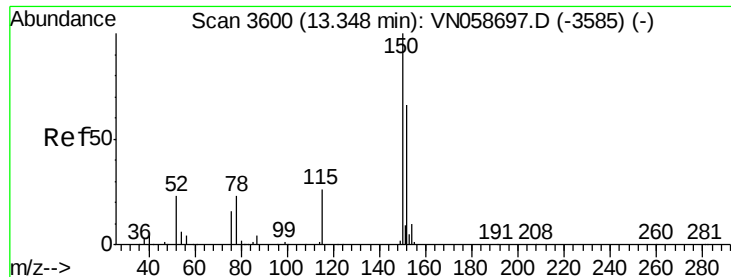
Tot Ion: 91 Resp: 4542
Ion Ratio Lower Upper
91 100
106 25.9 24.1 36.1



#68
m/p-Xylenes
Concen: 0.329 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN058749.D
Acq: 14 Oct 2019 15:04

Tgt Ion: 106 Resp: 2551
Ion Ratio Lower Upper
106 100
91 225.4 165.7 248.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

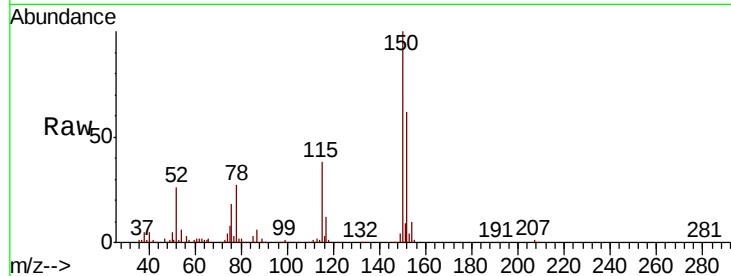
Tot Ion:152 Resp: 234641

Ion Ratio Lower Upper

152 100

115 61.6 30.4 91.2

150 160.1 0.0 345.4

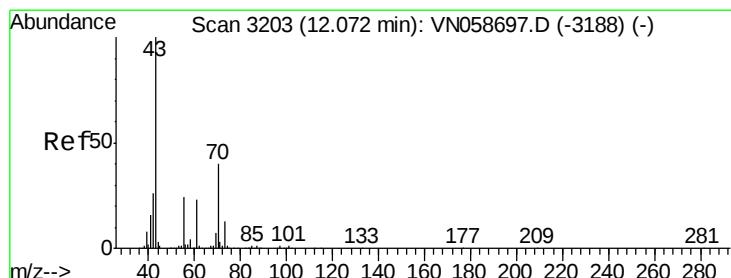
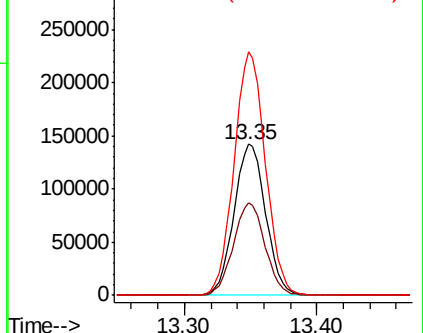
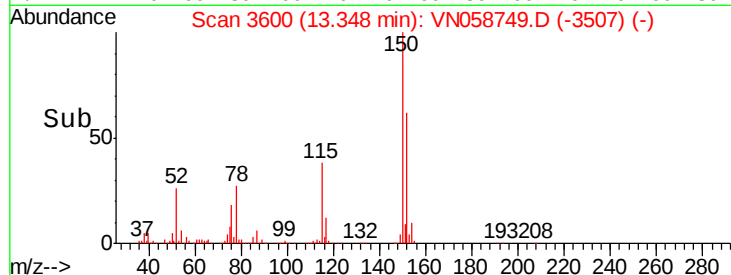


Abundance

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



#74

N-ethyl acetate

Concen: 0.259 ug/l

RT: 12.08 min Scan# 3204

Delta R.T. 0.00 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Tgt Ion: 43 Resp: 1979

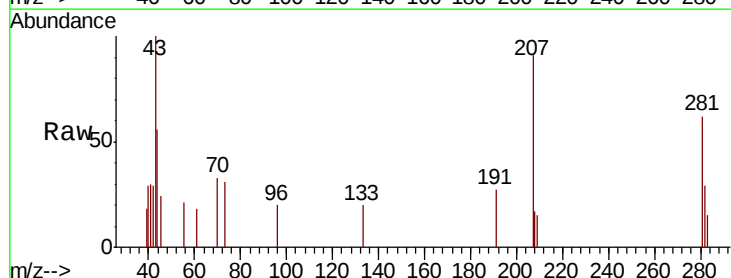
Ion Ratio Lower Upper

43 100

70 25.5 32.2 48.4#

55 11.4 19.6 29.4#

61 13.4 18.6 28.0#



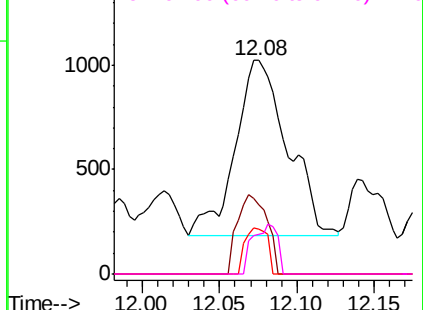
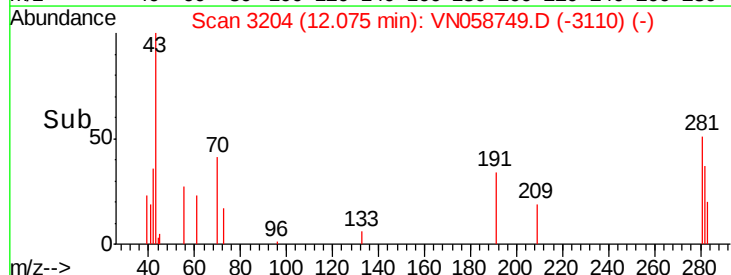
Abundance

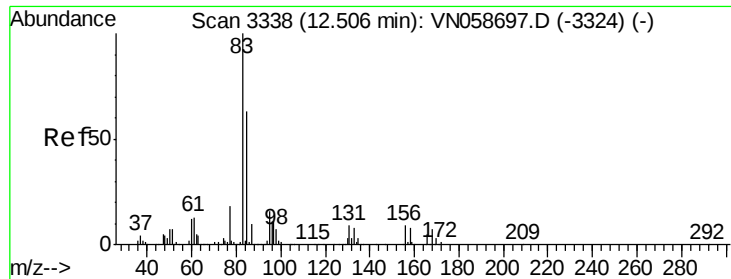
Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#75

1,1,2,2-Tetrachloroethane

Concen: 0.265 ug/l

RT: 12.51 min Scan# 3339

Delta R.T. 0.00 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

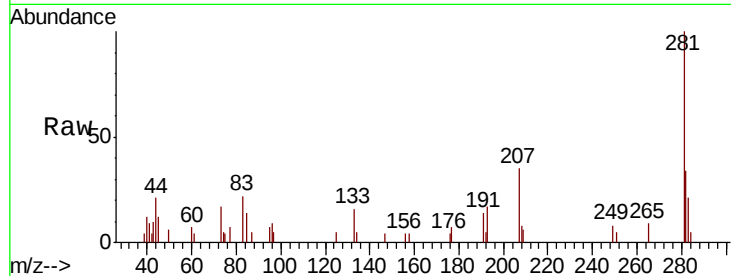
Tot Ion: 83 Resp: 1483

Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.4#

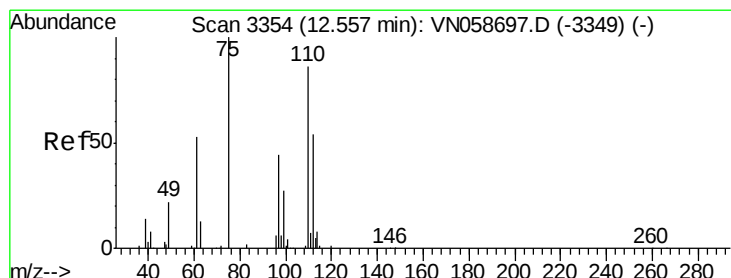
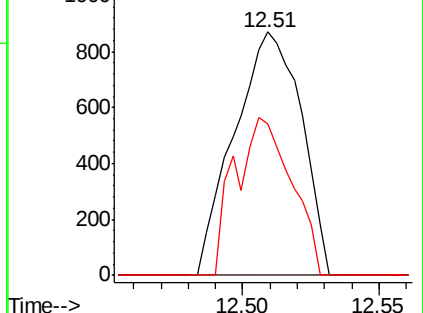
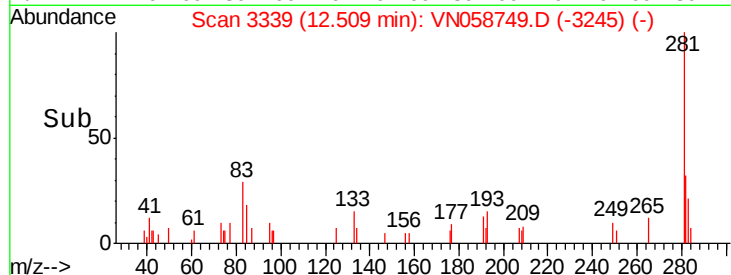
85 54.9 31.9 95.5



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 29.692 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058749.D

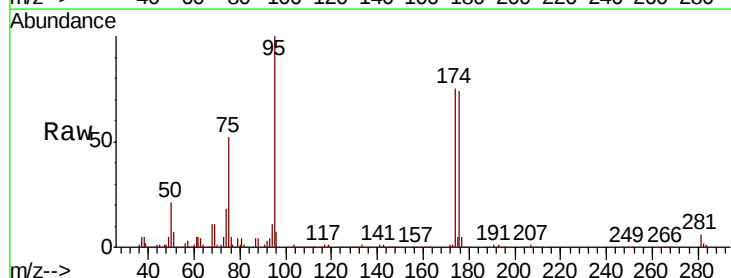
Acq: 14 Oct 2019 15:04

Tgt Ion: 75 Resp: 152839

Ion Ratio Lower Upper

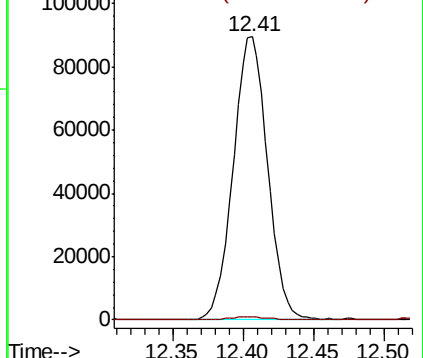
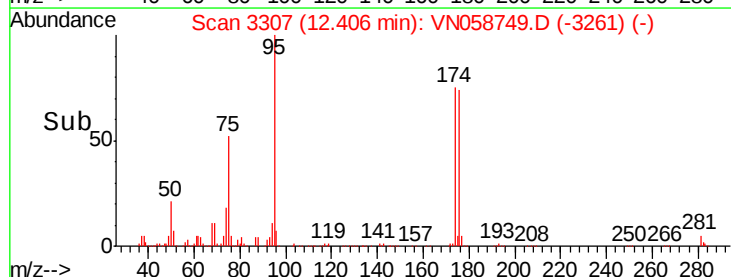
75 100

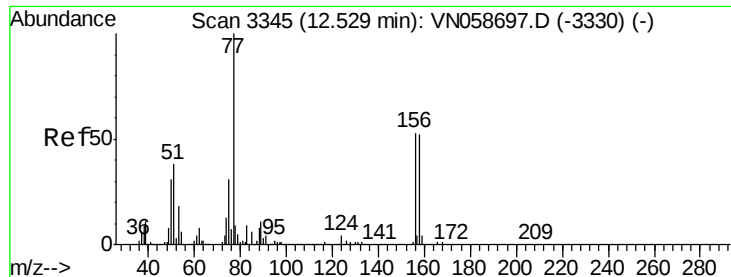
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 0.226 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

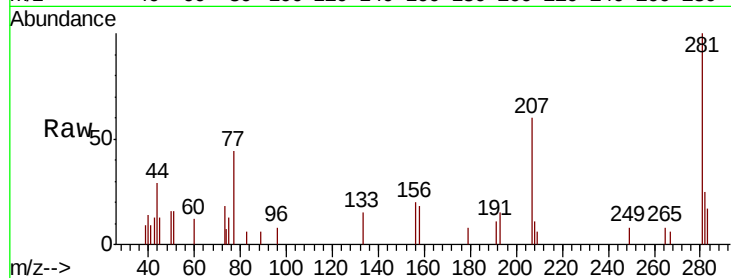
Tot Ion:156 Resp: 933

Ion Ratio Lower Upper

156 100

77 266.3 115.8 347.3

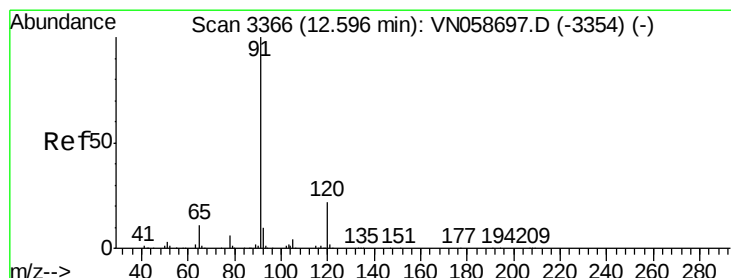
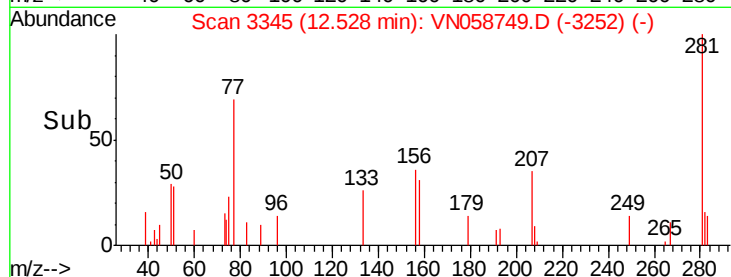
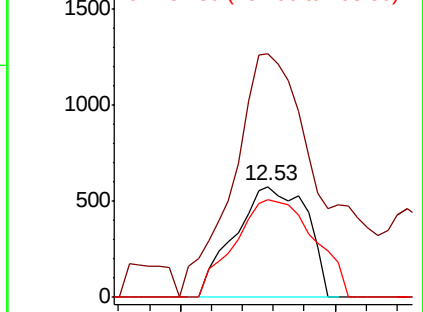
158 97.3 48.9 146.6



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: 0.206 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. -0.00 min

Lab File: VN058749.D

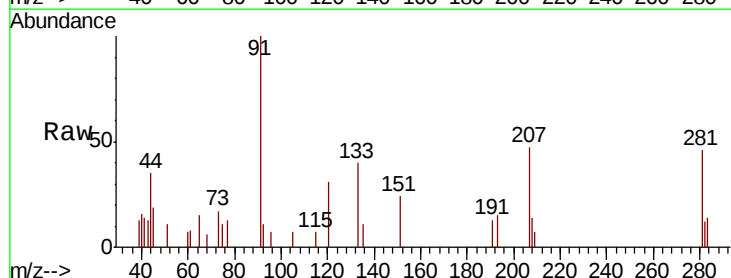
Acq: 14 Oct 2019 15:04

Tgt Ion: 91 Resp: 4083

Ion Ratio Lower Upper

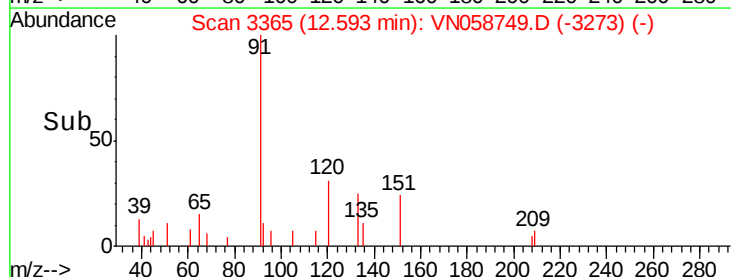
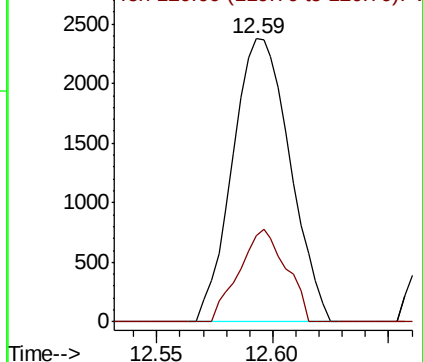
91 100

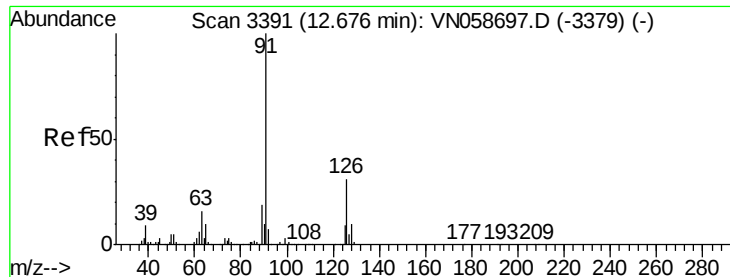
120 26.8 11.1 33.3



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

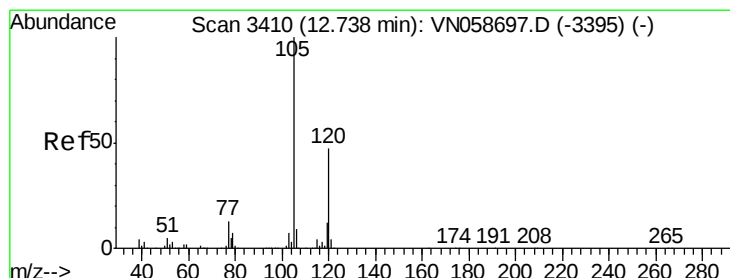
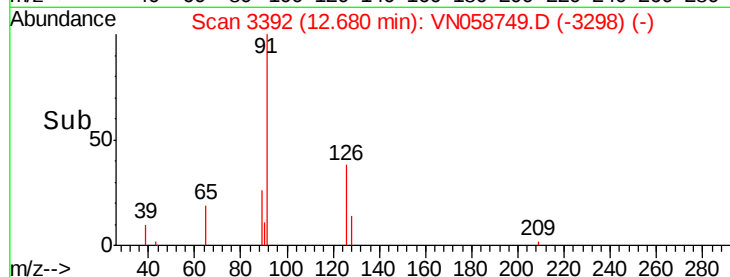
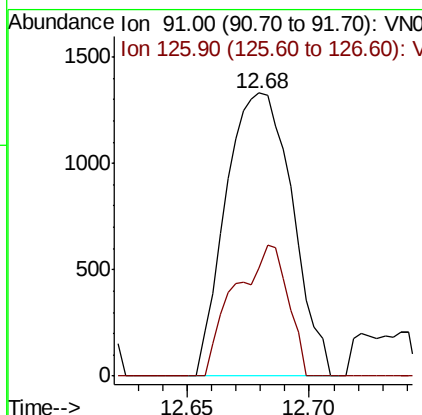
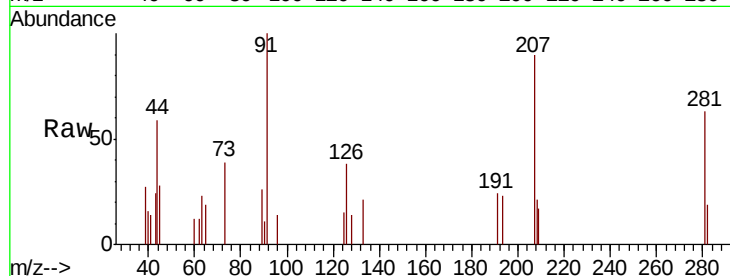




#79
 2-Chlorotoluene
 Concen: 0.205 ug/l
 RT: 12.68 min Scan# 3392
 Delta R.T. 0.00 min
 Lab File: VN058749.D
 Acq: 14 Oct 2019 15:04

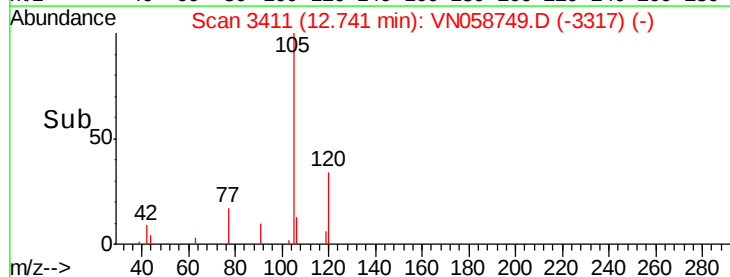
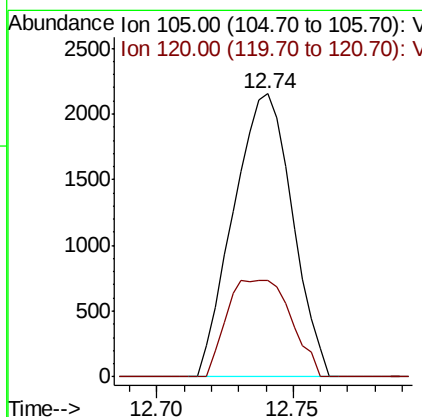
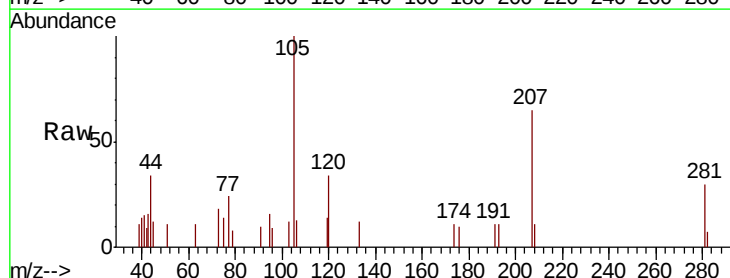
Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

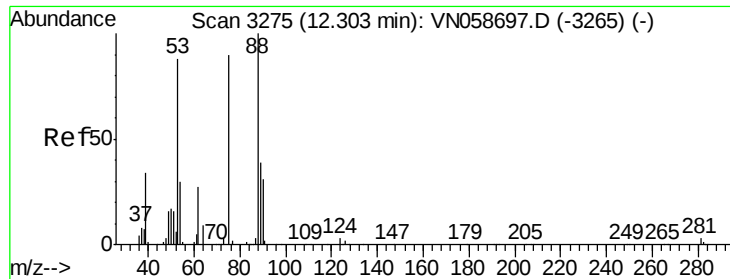
Tot Ion: 91 Resp: 2516
 Ion Ratio Lower Upper
 91 100
 126 37.2 16.2 48.5



#80
 1,3,5-Trimethylbenzene
 Concen: 0.223 ug/l
 RT: 12.74 min Scan# 3411
 Delta R.T. 0.00 min
 Lab File: VN058749.D
 Acq: 14 Oct 2019 15:04

Tgt Ion: 105 Resp: 3230
 Ion Ratio Lower Upper
 105 100
 120 37.2 23.4 70.2





#81

trans-1,4-Dichloro-2-butene

Concen: 79.536 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

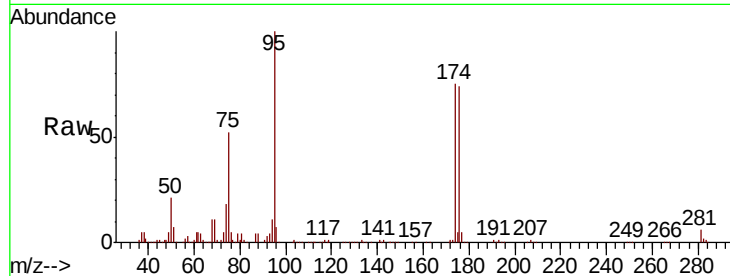
Tot Ion: 75 Resp: 152839

Ion Ratio Lower Upper

75 100

53 0.0 78.4 117.6#

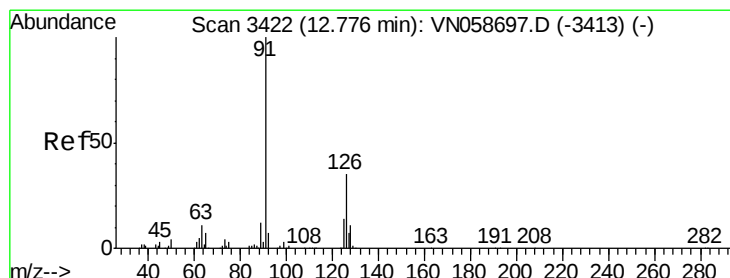
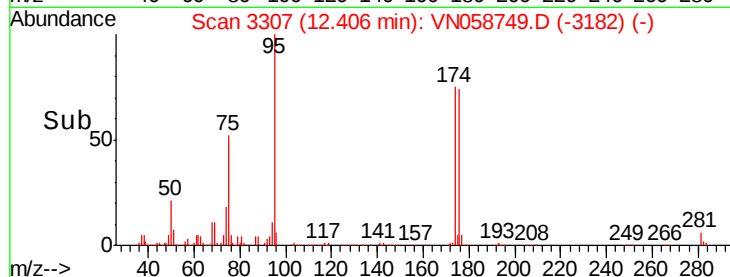
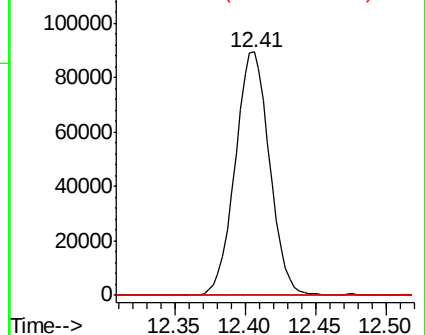
89 0.0 34.9 52.3#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#82

4-Chlorotoluene

Concen: 0.212 ug/l

RT: 12.78 min Scan# 3422

Delta R.T. -0.00 min

Lab File: VN058749.D

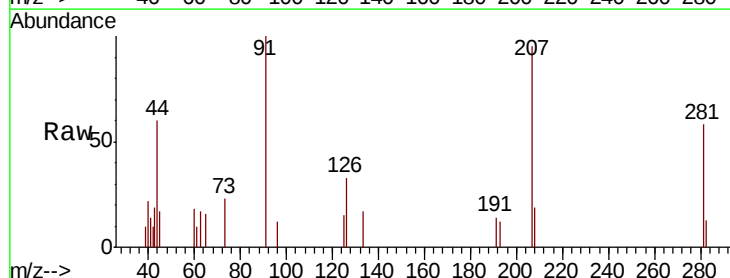
Acq: 14 Oct 2019 15:04

Tgt Ion: 91 Resp: 2677

Ion Ratio Lower Upper

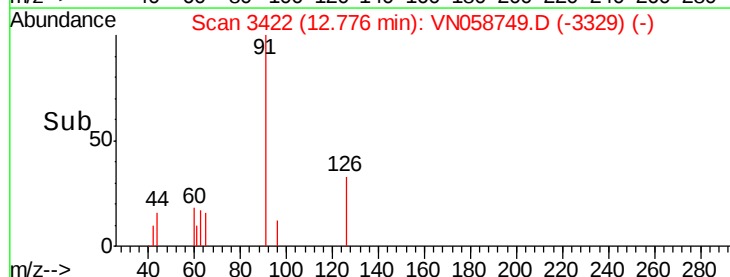
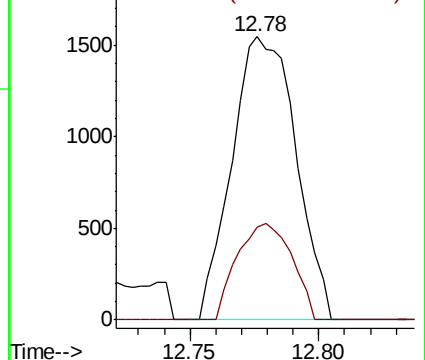
91 100

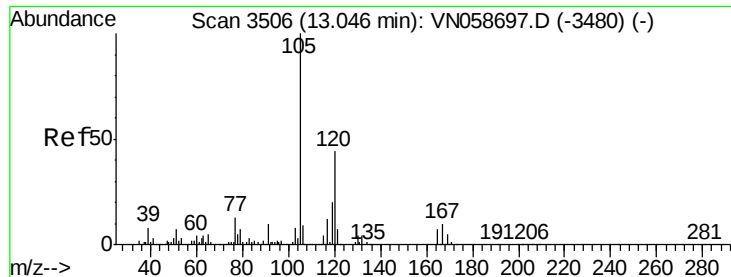
126 29.1 15.9 47.6



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#84

1,2,4-Trimethylbenzene

Concen: 0.205 ug/l

RT: 13.05 min Scan# 3506

Delta R.T. -0.00 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

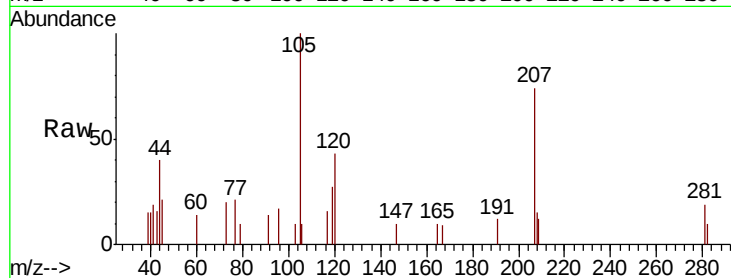
LOD-MDL-WATER-01-QT4-2019

Tot Ion:105 Resp: 2959

Ion Ratio Lower Upper

105 100

120 35.5 21.9 65.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

13.05

2000

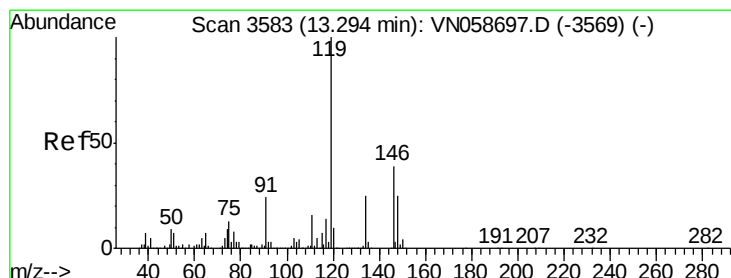
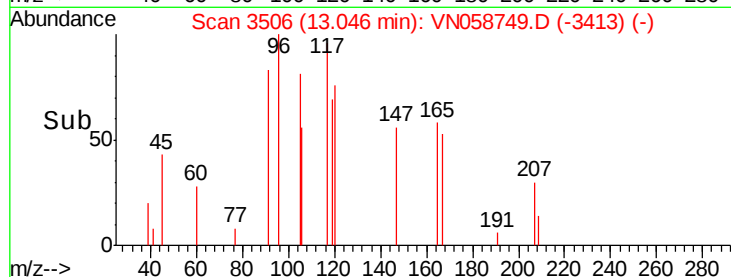
1500

1000

500

0

Time-->



#86

p-Isopropyltoluene

Concen: 0.208 ug/l

RT: 13.29 min Scan# 3583

Delta R.T. -0.00 min

Lab File: VN058749.D

Acq: 14 Oct 2019 15:04

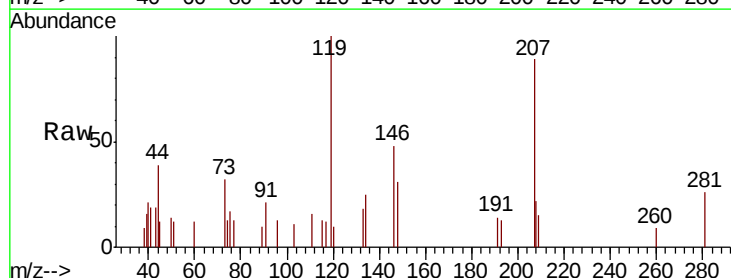
Tgt Ion:119 Resp: 3101

Ion Ratio Lower Upper

119 100

134 24.1 12.7 38.1

91 18.9 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

2500

2000

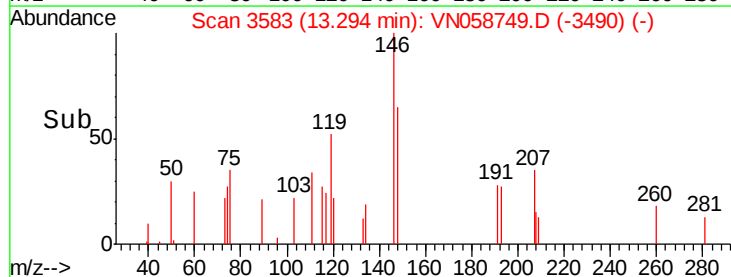
1500

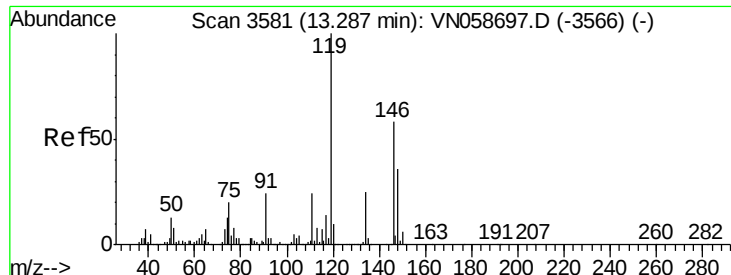
1000

500

0

Time-->

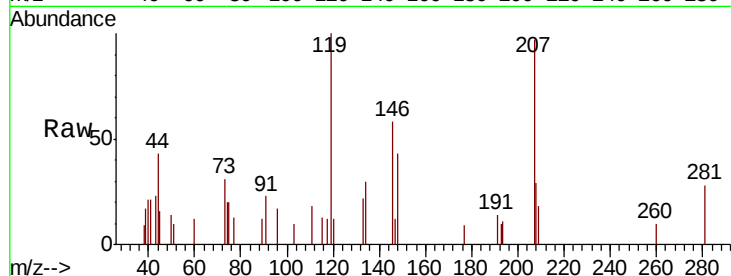




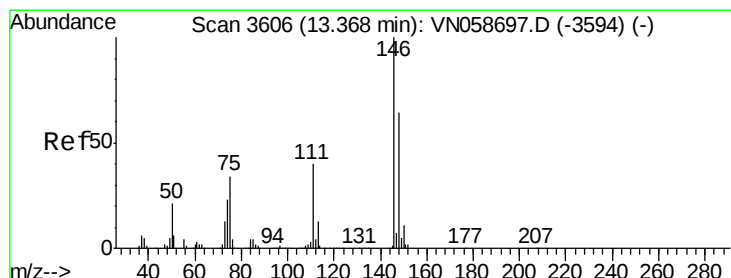
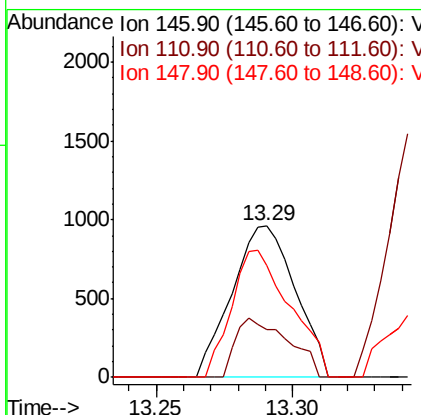
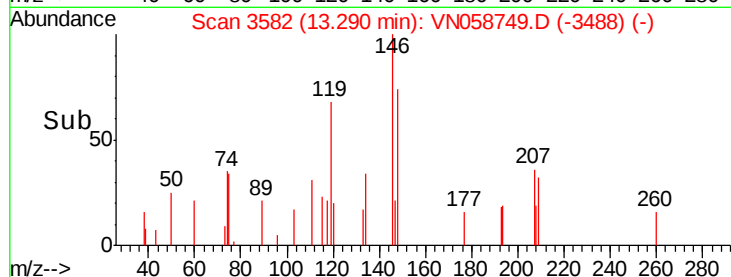
#87
 1,3-Dichlorobenzene
 Concen: 0.204 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN058749.D
 Acq: 14 Oct 2019 15:04

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

Tot Ion:146 Resp: 1553
 Ion Ratio Lower Upper
 146 100
 111 32.5 20.5 61.6
 148 77.6 31.3 93.9

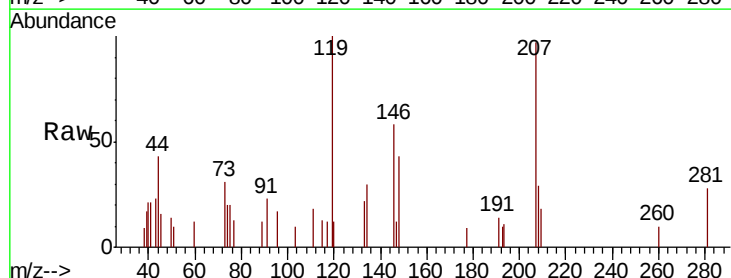


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

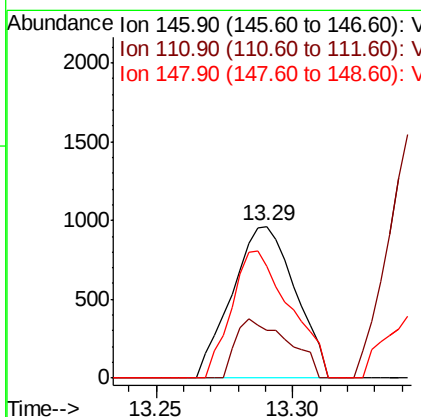
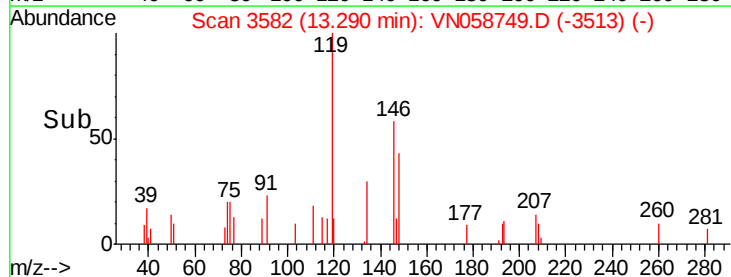


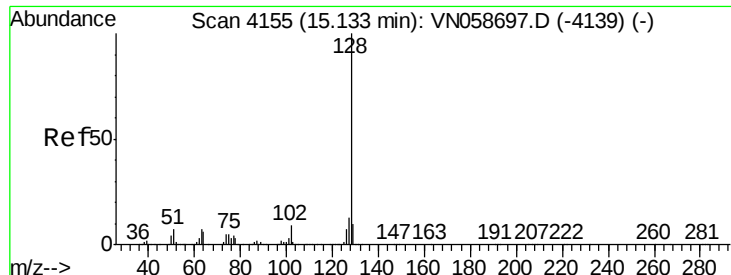
#88
 1,4-Dichlorobenzene
 Concen: 0.200 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. -0.08 min
 Lab File: VN058749.D
 Acq: 14 Oct 2019 15:04

Tgt Ion:146 Resp: 1553
 Ion Ratio Lower Upper
 146 100
 111 32.5 20.1 60.2
 148 77.6 31.9 95.7



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

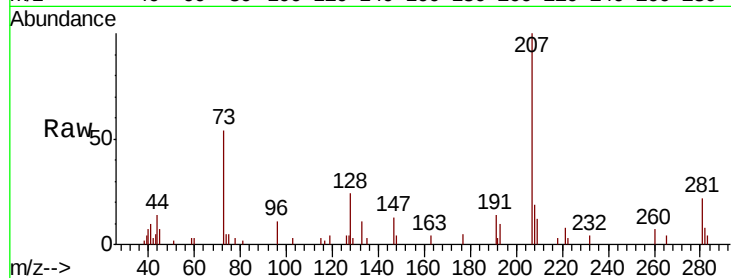




#95
Naphthalene
Concen: 0.208 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN058749.D
Acq: 14 Oct 2019 15:04

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

Tot Ion	Ratio	Lower	Upper
128	100		
127	6.1	10.2	15.4#
129	9.4	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

