

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072719\
 Data File : VN056946.D
 Acq On : 26 Jul 2019 17:00
 Operator : JC/SP
 Sample : K3591-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

Quant Time: Jul 27 00:54:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 00:47:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	567284	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	849402	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	695032	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	209080	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	315216	54.28	ug/l	0.00
Spiked Amount			Recovery	=	108.56%	
35) Dibromofluoromethane	7.58	113	286176	52.63	ug/l	0.00
Spiked Amount			Recovery	=	105.26%	
50) Toluene-d8	10.08	98	1068857	51.55	ug/l	0.00
Spiked Amount			Recovery	=	103.10%	
62) 4-Bromofluorobenzene	12.40	95	288418	42.73	ug/l	0.00
Spiked Amount			Recovery	=	85.46%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.84	85	2218	0.387	ug/l	94
3) Chloromethane	2.05	50	4887	0.712	ug/l	99
4) Vinyl Chloride	2.18	62	3013	0.468	ug/l #	85
5) Bromomethane	2.56	94	4069	1.016	ug/l	86
6) Chloroethane	2.69	64	1818	0.512	ug/l	89
7) Trichlorofluoromethane	3.00	101	3683	0.437	ug/l	94
8) Diethyl Ether	3.40	74	1388	0.440	ug/l	79
9) 1,1,2-Trichlorotrifluoroet	3.74	101	1445	0.277	ug/l #	72
10) Methyl Iodide	3.95	142	2046	0.293	ug/l #	68
11) Tert butyl alcohol	4.72	59	1695	2.159	ug/l #	74
12) 1,1-Dichloroethene	3.73	96	2422	0.486	ug/l #	88
13) Acrolein	3.60	56	953	Below Cal	#	57
14) Allyl chloride	4.30	41	3565	0.440	ug/l #	75
15) Acrylonitrile	4.99	53	4482	1.947	ug/l	93
16) Acetone	3.82	43	5517	2.622	ug/l	94
17) Carbon Disulfide	4.04	76	8717	0.658	ug/l	96
18) Methyl Acetate	4.32	43	4971	0.741	ug/l #	77
19) Methyl tert-butyl Ether	5.03	73	6824	0.459	ug/l	98
20) Methylene Chloride	4.53	84	3311	0.546	ug/l #	95
21) trans-1,2-Dichloroethene	5.02	96	2931	0.553	ug/l #	82
22) Diisopropyl ether	5.94	45	7431	0.445	ug/l #	83
23) Vinyl Acetate	5.88	43	23782	2.054	ug/l	98
24) 1,1-Dichloroethane	5.83	63	4594	0.466	ug/l #	84
25) 2-Butanone	6.82	43	6981	2.340	ug/l #	89
26) 2,2-Dichloropropane	6.81	77	4376	0.584	ug/l #	58
27) cis-1,2-Dichloroethene	6.82	96	3111	0.497	ug/l	85
28) Bromochloromethane	7.18	49	2113	0.456	ug/l #	94
29) Tetrahydrofuran	7.20	42	4696	2.413	ug/l #	73
30) Chloroform	7.36	83	6404	0.635	ug/l	95
31) Cyclohexane	7.65	56	12533	1.313	ug/l #	1
32) 1,1,1-Trichloroethane	7.56	97	3676	0.457	ug/l #	46
36) 1,1-Dichloropropene	7.78	75	3749	0.502	ug/l	87
37) Ethyl Acetate	6.93	43	3543	0.592	ug/l #	68
38) Carbon Tetrachloride	7.77	117	3037	0.430	ug/l	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	4293	0.449	ug/l	87
40) Benzene	8.03	78	10684	0.464	ug/l	96
41) Methacrylonitrile	7.17	41	1080	0.390	ug/l #	67
42) 1,2-Dichloroethane	8.11	62	3953	0.548	ug/l	99
43) Isopropyl Acetate	8.16	43	4291	0.434	ug/l #	89
44) Trichloroethene	8.83	130	3221	0.508	ug/l	93
45) 1,2-Dichloropropane	9.10	63	2828	0.459	ug/l	93
46) Dibromomethane	9.20	93	1779	0.479	ug/l	96
47) Bromodichloromethane	9.39	83	3397	0.465	ug/l #	77
48) Methyl methacrylate	9.20	41	2170	0.454	ug/l #	22
49) 1,4-Dioxane	9.19	88	691	7.019	ug/l	92
51) 4-Methyl-2-Pentanone	9.98	43	12732	2.166	ug/l	95
52) Toluene	10.15	92	6944	0.502	ug/l	90
53) t-1,3-Dichloropropene	10.38	75	2965	0.391	ug/l #	83
54) cis-1,3-Dichloropropene	9.83	75	3858	0.438	ug/l	98
55) 1,1,2-Trichloroethane	10.55	97	2390	0.431	ug/l	89
56) Ethyl methacrylate	10.42	69	3269	2.137	ug/l	98
57) 1,3-Dichloropropane	10.70	76	4088	0.444	ug/l	93
58) 2-Chloroethyl Vinyl ether	9.69	63	6950	2.091	ug/l	93
59) 2-Hexanone	10.75	43	8729	4.409	ug/l	85
60) Dibromochloromethane	10.89	129	1977	0.348	ug/l	90
61) 1,2-Dibromoethane	11.00	107	2512	0.464	ug/l	99
64) Tetrachloroethene	10.62	164	3239	0.541	ug/l	90
65) Chlorobenzene	11.43	112	7146	0.504	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.50	131	2430	0.456	ug/l #	63
67) Ethyl Benzene	11.51	91	11762	0.480	ug/l	92
68) m/p-Xylenes	11.61	106	7875	0.872	ug/l	98
69) o-Xylene	11.94	106	3815	0.432	ug/l	95
70) Styrene	11.96	104	5763	2.222	ug/l	94
71) Bromoform	12.13	173	1463	0.393	ug/l #	98
73) Isopropylbenzene	12.24	105	10509	0.582	ug/l	96
74) N-amyl acetate	12.07	43	2640	0.503	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.50	83	2963	Below Cal		94
76) 1,2,3-Trichloropropane	12.40	75	130831	30.812	ug/l #	100
77) Bromobenzene	12.52	156	2771	0.588	ug/l	92
78) n-propylbenzene	12.59	91	11281	0.585	ug/l	98
79) 2-Chlorotoluene	12.67	91	6895	0.580	ug/l	94
80) 1,3,5-Trimethylbenzene	12.73	105	8692	0.586	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	130831	98.999	ug/l #	15
82) 4-Chlorotoluene	12.77	91	6689	0.602	ug/l	93
83) tert-Butylbenzene	12.99	119	7928	0.604	ug/l	93
84) 1,2,4-Trimethylbenzene	13.03	105	8284	0.581	ug/l	96
85) sec-Butylbenzene	13.17	105	9207	0.544	ug/l	98
86) p-Isopropyltoluene	13.28	119	7879	0.524	ug/l	97
87) 1,3-Dichlorobenzene	13.28	146	4409	0.615	ug/l	99
88) 1,4-Dichlorobenzene	13.28	146	4409	0.638	ug/l	98
89) n-Butylbenzene	13.61	91	6236	0.538	ug/l	96
90) Hexachloroethane	13.87	117	1220	0.471	ug/l	97
91) 1,2-Dichlorobenzene	13.65	146	4827	0.684	ug/l	89
92) 1,2-Dibromo-3-Chloropropan	14.26	75	195	0.271	ug/l #	23

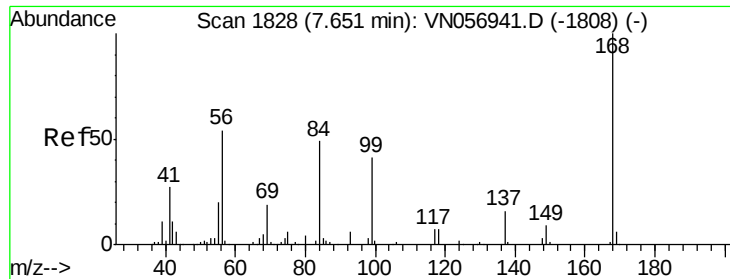
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	2496	3.360	ug/l	95
94) Hexachlorobutadiene	15.00	225	1866	Below Cal		94
95) Naphthalene	15.12	128	6135	4.229	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.29	180	3232	2.892	ug/l	93

(#) = 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: VN056946.D

Acq: 26 Jul 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

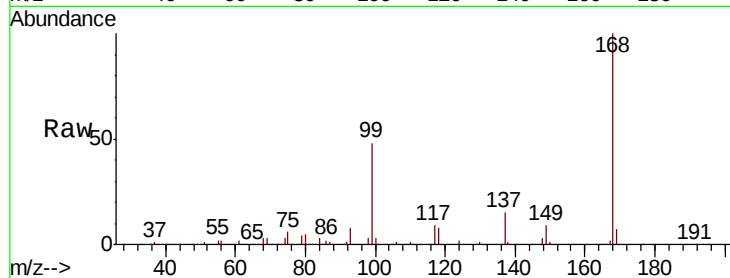
MDL-MDL-WATER-03-QT3-2019

Tot Ion:168 Resp: 567284

Ion Ratio Lower Upper

168 100

99 48.2 39.0 58.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

250000

200000

150000

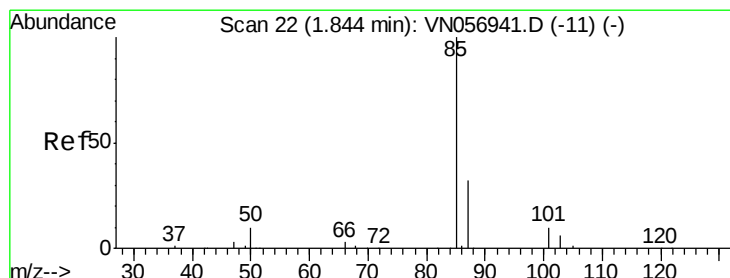
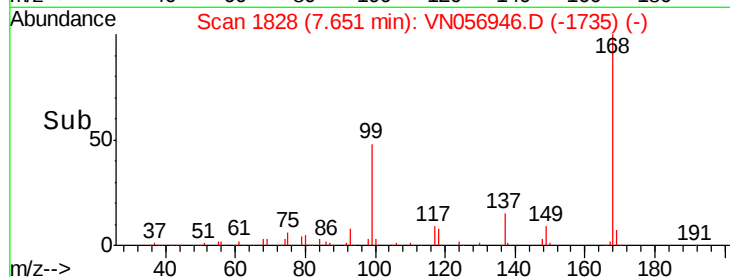
100000

50000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#2

Dichlorodifluoromethane

Concen: 0.387 ug/l

RT: 1.84 min Scan# 22

Delta R.T. -0.00 min

Lab File: VN056946.D

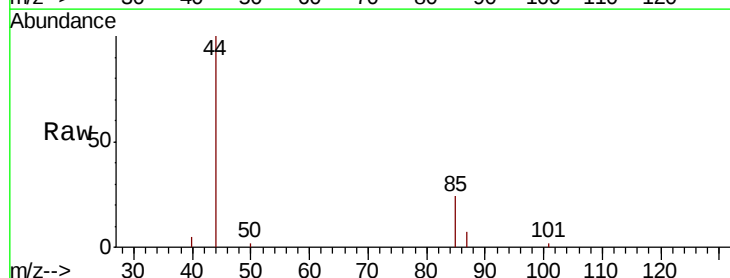
Acq: 26 Jul 2019 17:00

Tgt Ion: 85 Resp: 2218

Ion Ratio Lower Upper

85 100

87 28.3 15.8 47.4



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.84

2000

1500

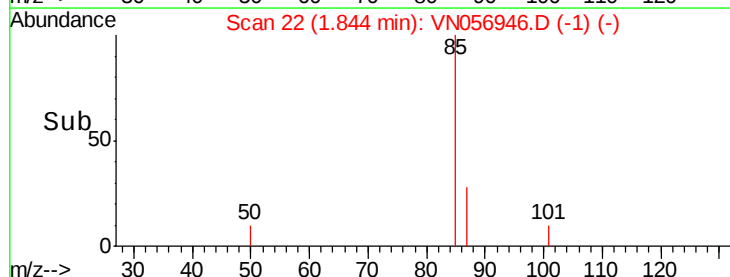
1000

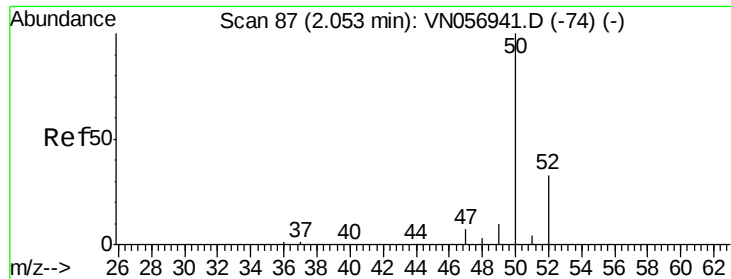
500

0

1.80 1.85

Time-->





#3

Chloromethane

Concen: 0.712 ug/l

RT: 2.05 min Scan# 87

Delta R.T. -0.00 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

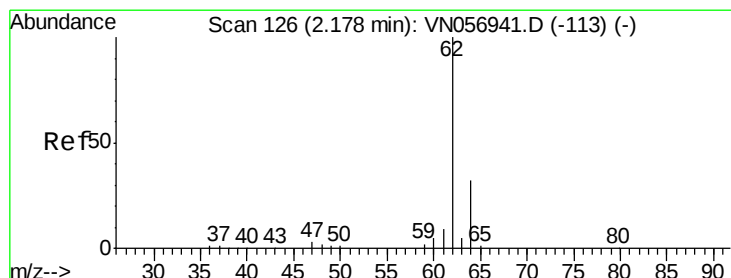
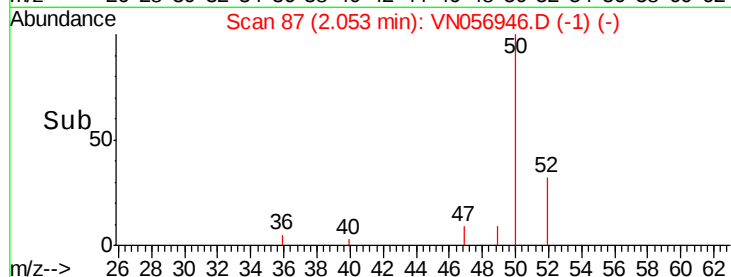
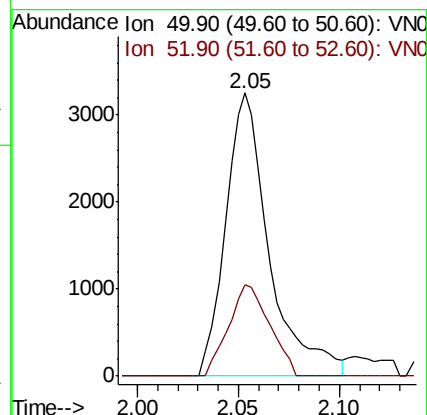
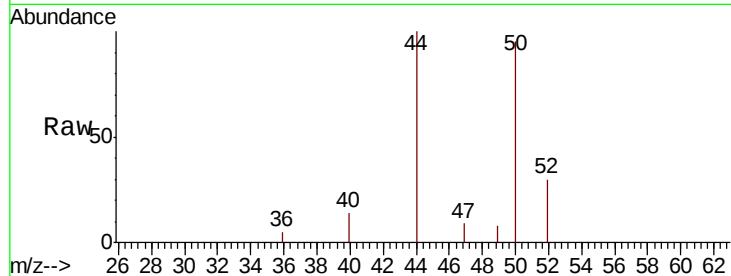
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 50 Resp: 4887

Ion Ratio Lower Upper

50 100

52 32.1 26.2 39.2



#4

Vinyl Chloride

Concen: 0.468 ug/l

RT: 2.18 min Scan# 127

Delta R.T. 0.00 min

Lab File: VN056946.D

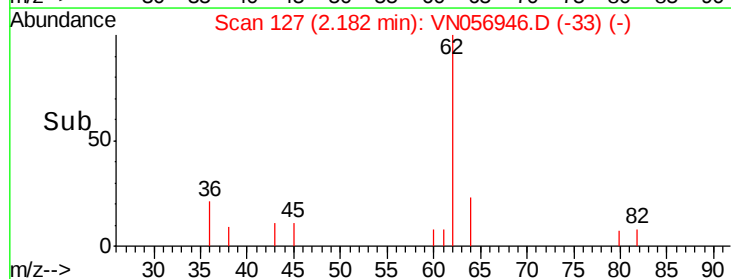
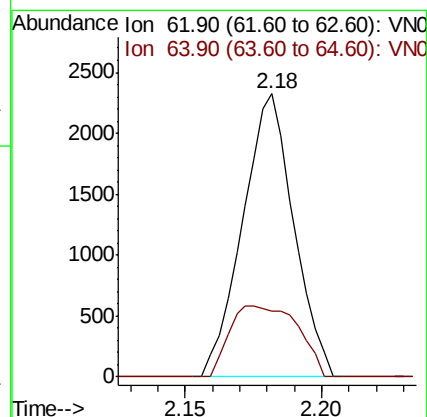
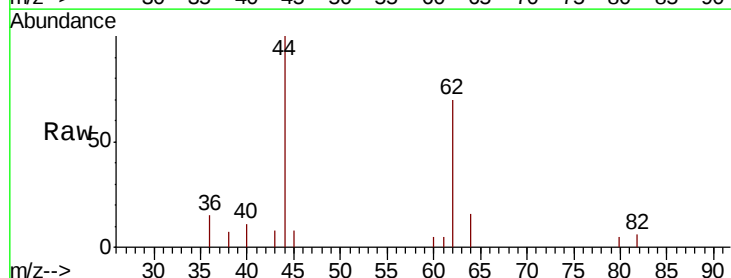
Acq: 26 Jul 2019 17:00

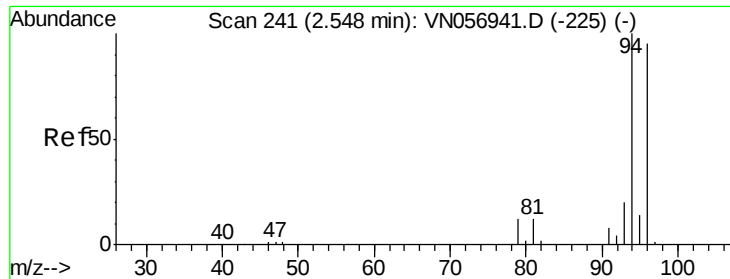
Tgt Ion: 62 Resp: 3013

Ion Ratio Lower Upper

62 100

64 23.3 25.4 38.0#





#5

Bromomethane

Concen: 1.016 ug/l

RT: 2.56 min Scan# 244

Delta R.T. 0.01 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

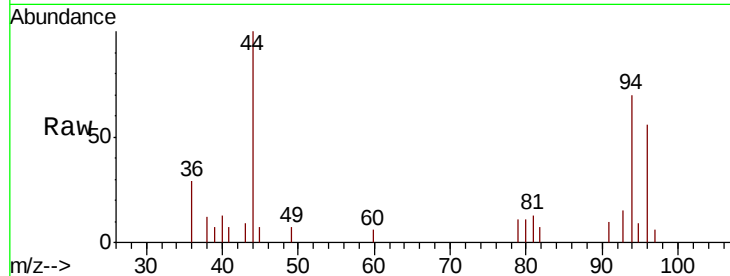
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 94 Resp: 4069

Ion Ratio Lower Upper

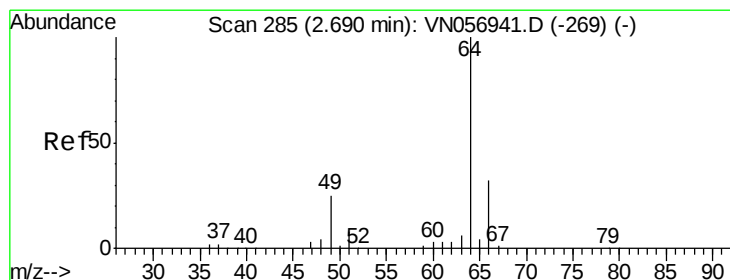
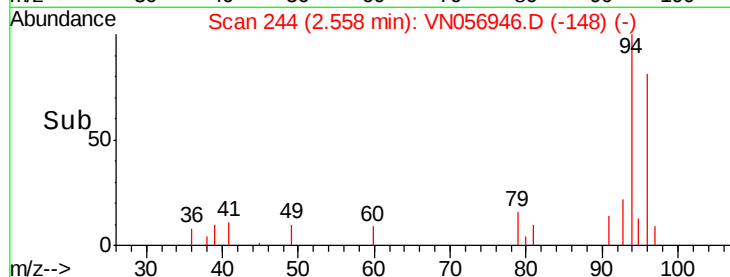
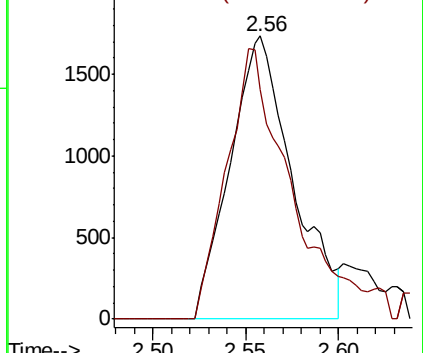
94 100

96 81.2 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 0.512 ug/l

RT: 2.69 min Scan# 286

Delta R.T. 0.00 min

Lab File: VN056946.D

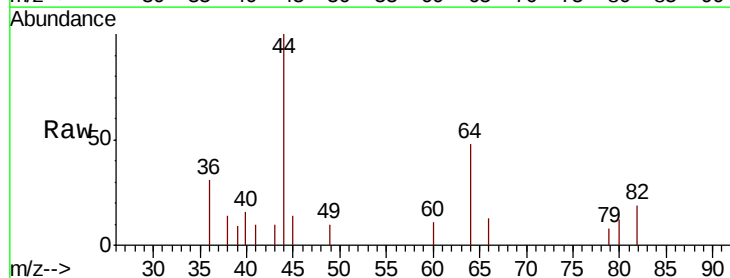
Acq: 26 Jul 2019 17:00

Tgt Ion: 64 Resp: 1818

Ion Ratio Lower Upper

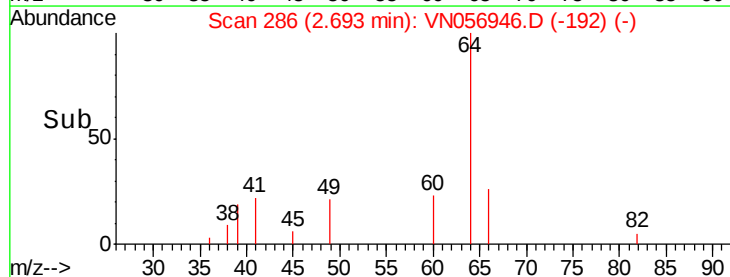
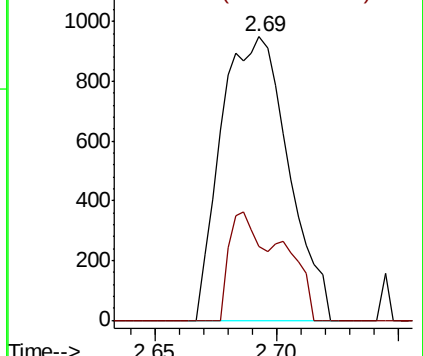
64 100

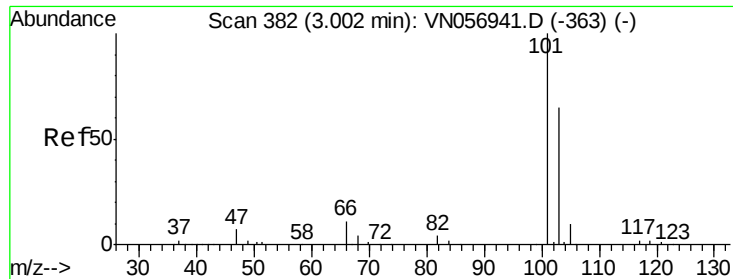
66 26.0 25.8 38.8



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

Trichlorofluoromethane

Concen: 0.437 ug/l

RT: 3.00 min Scan# 383

Delta R.T. 0.00 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

Instrument :

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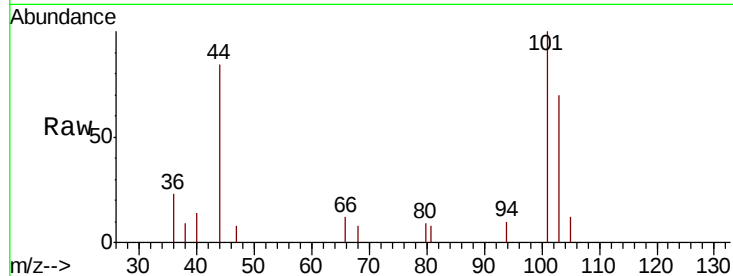
MDL-MDL-WATER-03-QT3-2019

Tot Ion:101 Resp: 3683

Ion Ratio Lower Upper

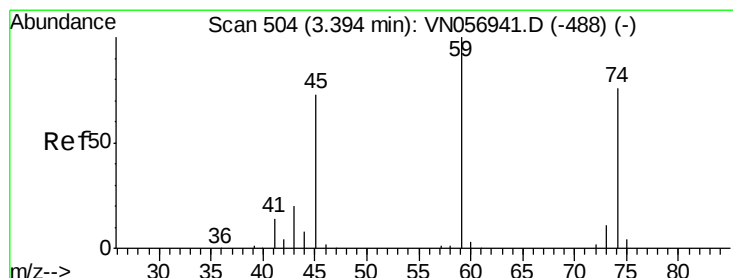
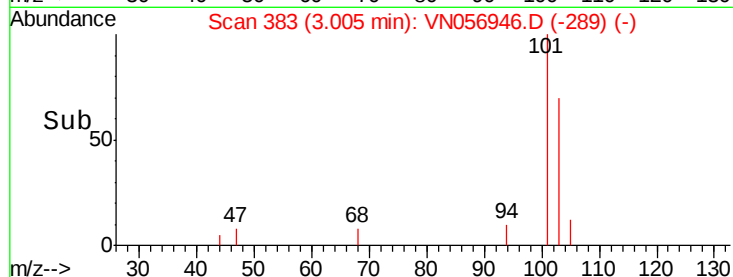
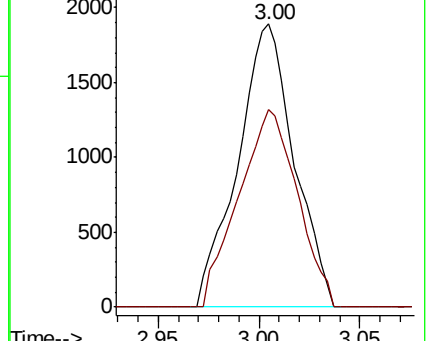
101 100

103 69.7 52.1 78.1



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 0.440 ug/l

RT: 3.40 min Scan# 506

Delta R.T. 0.01 min

Lab File: VN056946.D

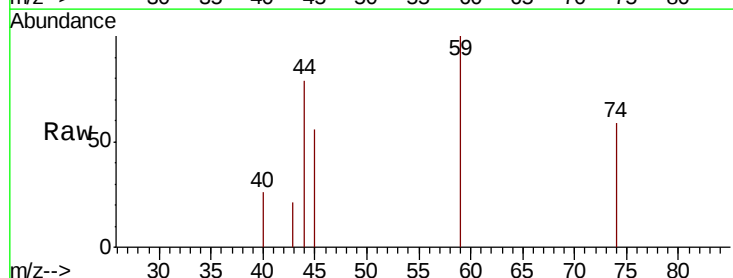
Acq: 26 Jul 2019 17:00

Tgt Ion: 74 Resp: 1388

Ion Ratio Lower Upper

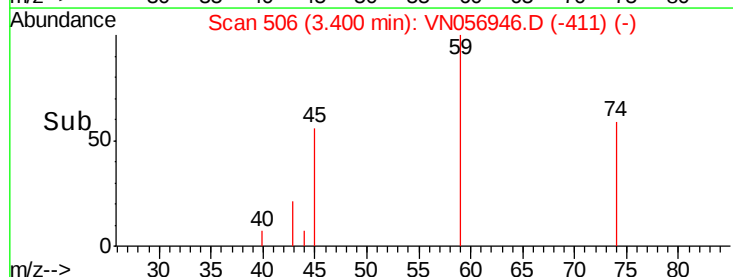
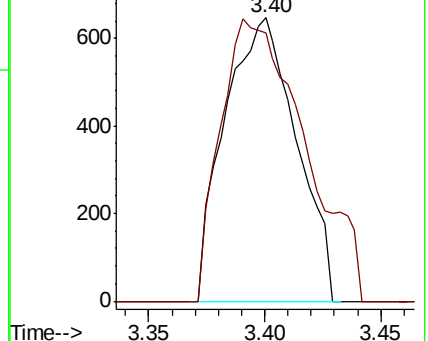
74 100

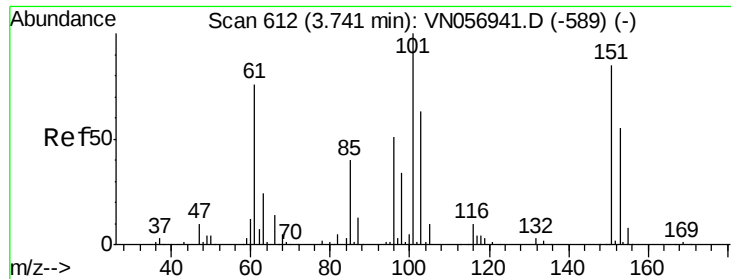
45 117.0 48.1 144.3



Abundance Ion 74.00 (73.70 to 74.70): V

Ion 45.00 (44.70 to 45.70): V





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.277 ug/l

RT: 3.74 min Scan# 611

Delta R.T. -0.00 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

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ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

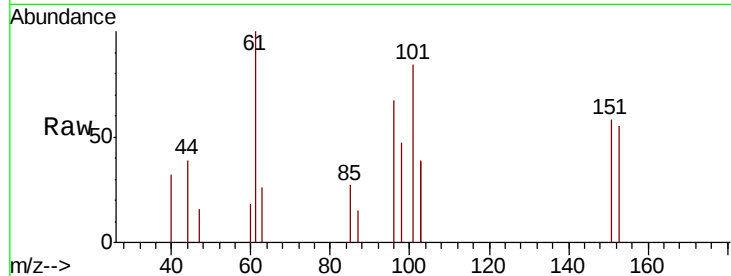
Tot Ion:101 Resp: 1445

Ion Ratio Lower Upper

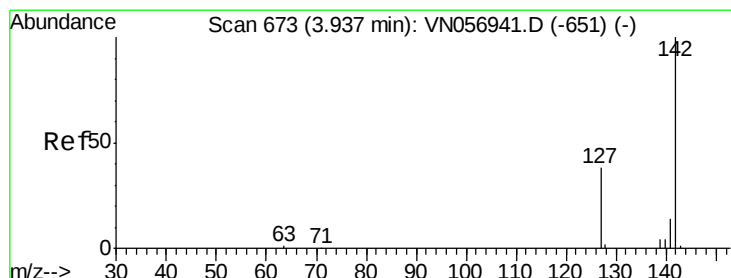
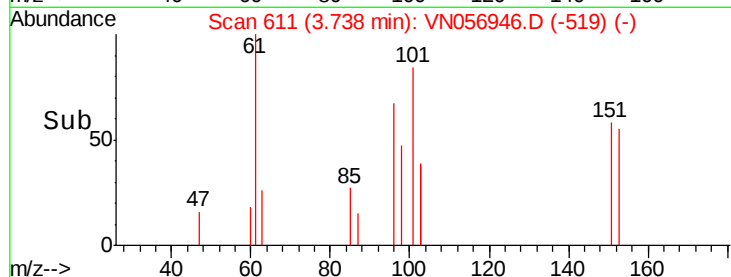
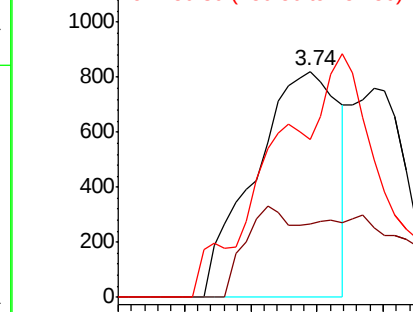
101 100

85 24.2 32.3 48.5#

151 58.4 68.0 102.0#



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: 0.293 ug/l

RT: 3.95 min Scan# 676

Delta R.T. 0.01 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

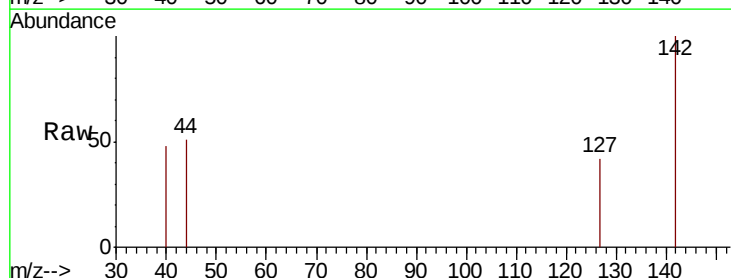
Tgt Ion:142 Resp: 2046

Ion Ratio Lower Upper

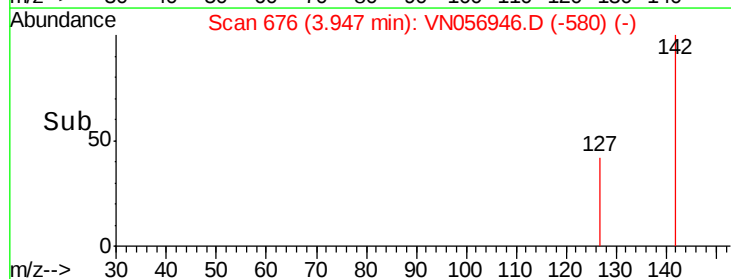
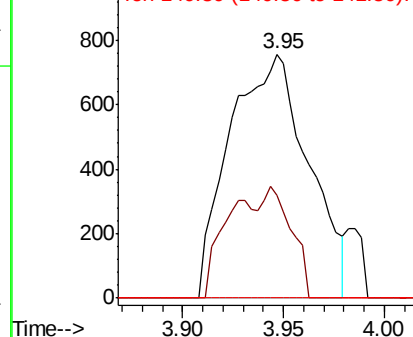
142 100

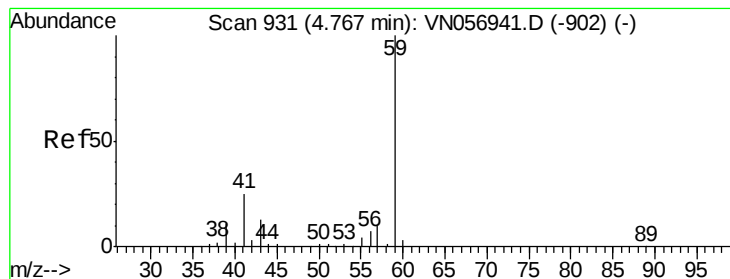
127 19.1 30.4 45.6#

141 0.0 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



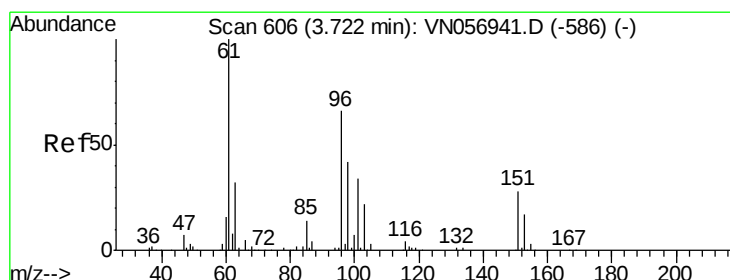
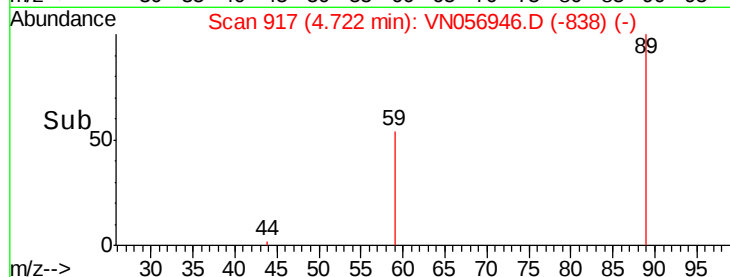
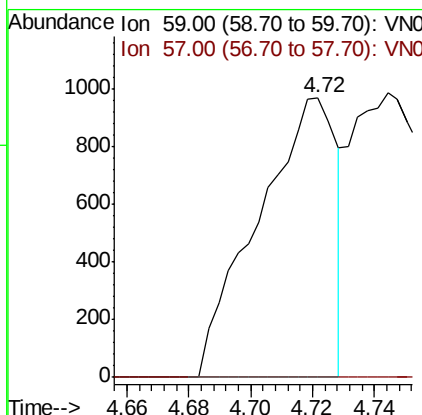
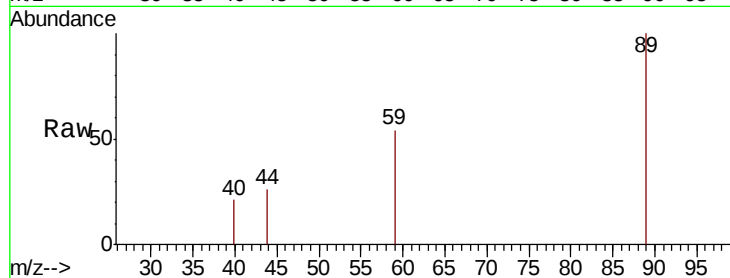


#11

Tert butyl alcohol
 Concen: 2.159 ug/l
 RT: 4.72 min Scan# 917
 Delta R.T. -0.05 min
 Lab File: VN056946.D
 Acq: 26 Jul 2019 17:00

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

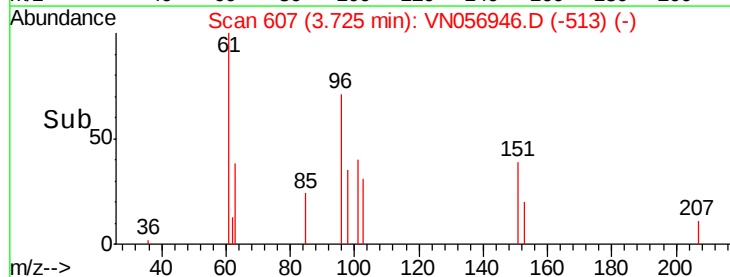
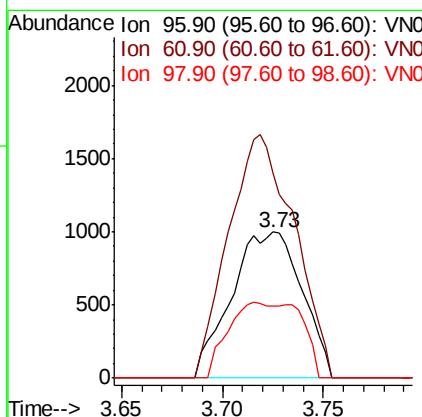
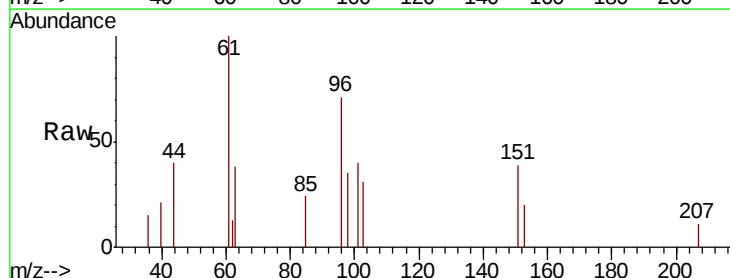
Tot Ion: 59 Resp: 1695
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.5 11.3#

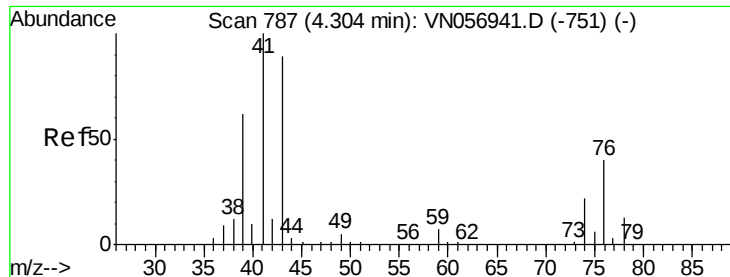


#12

1,1-Dichloroethene
 Concen: 0.486 ug/l
 RT: 3.73 min Scan# 607
 Delta R.T. 0.00 min
 Lab File: VN056946.D
 Acq: 26 Jul 2019 17:00

Tgt Ion: 96 Resp: 2422
 Ion Ratio Lower Upper
 96 100
 61 141.1 121.8 182.8
 98 49.4 51.7 77.5#





#14

Allvl chloride

Concen: 0.440 ug/l

RT: 4.30 min Scan# 785

Delta R.T. -0.01 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

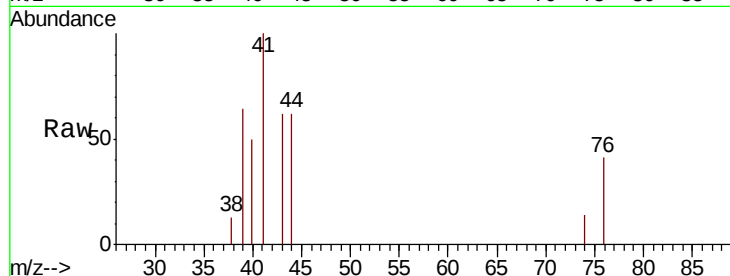
Tot Ion: 41 Resp: 3565

Ion Ratio Lower Upper

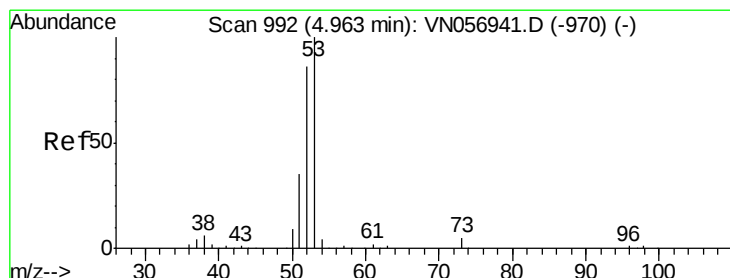
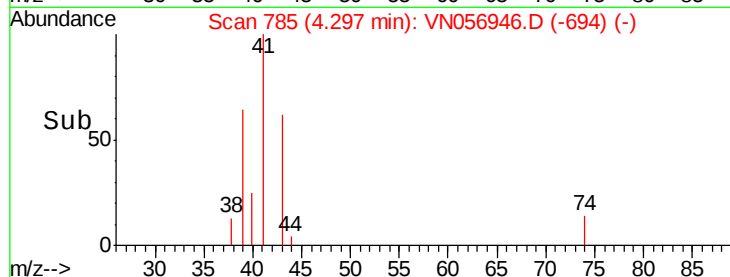
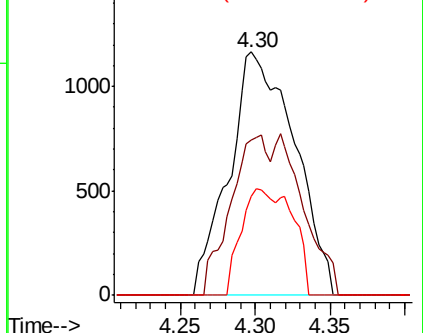
41 100

39 38.9 46.4 69.6#

76 21.9 28.4 42.6#



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: 1.947 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.03 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

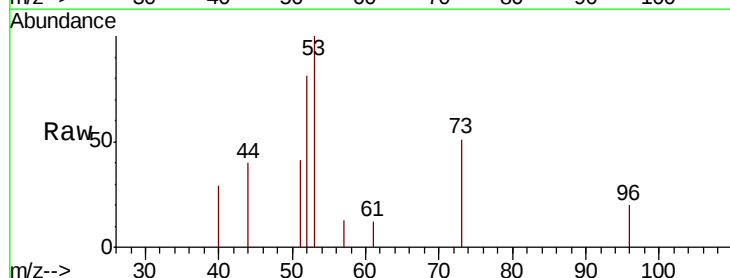
Tgt Ion: 53 Resp: 4482

Ion Ratio Lower Upper

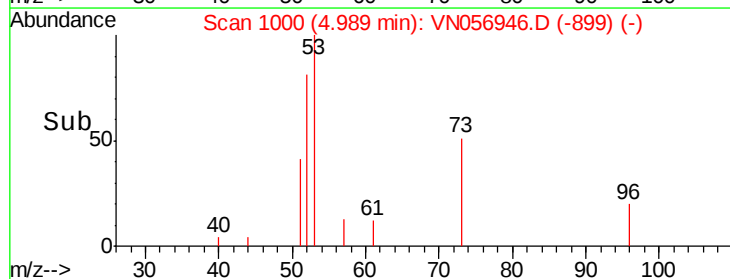
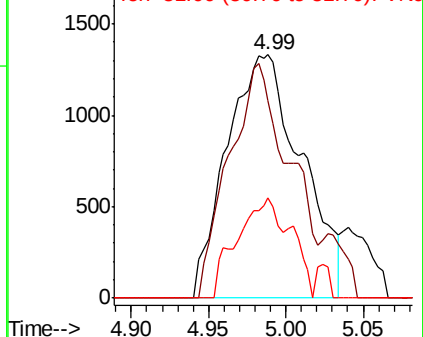
53 100

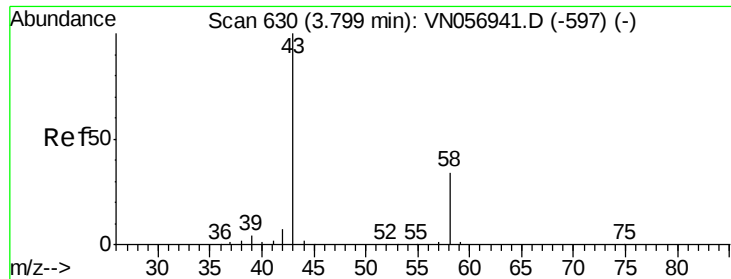
52 78.2 66.5 99.7

51 29.7 28.4 42.6



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: 2.622 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.02 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

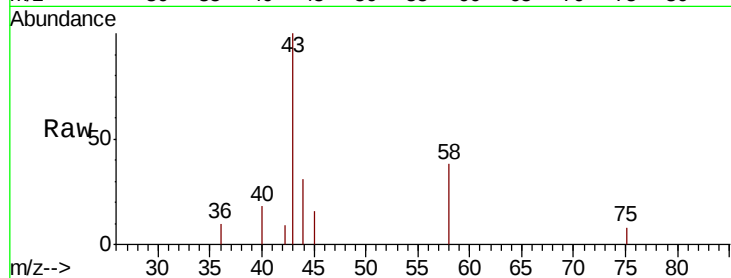
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 43 Resp: 5517

Ion Ratio Lower Upper

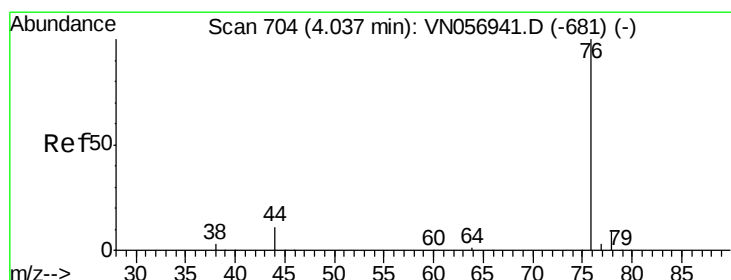
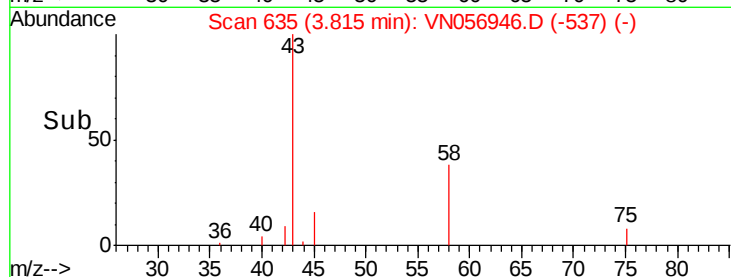
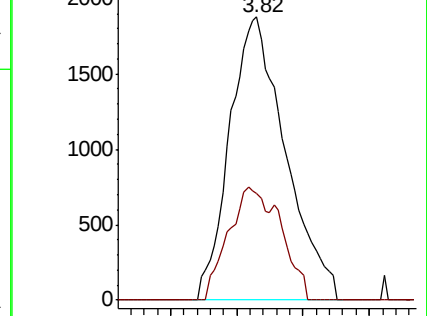
43 100

58 37.7 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 0.658 ug/l

RT: 4.04 min Scan# 704

Delta R.T. -0.00 min

Lab File: VN056946.D

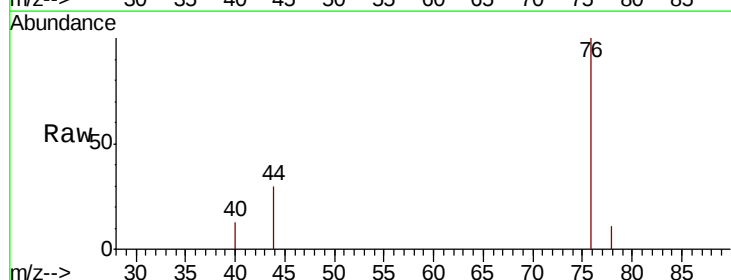
Acq: 26 Jul 2019 17:00

Tgt Ion: 76 Resp: 8717

Ion Ratio Lower Upper

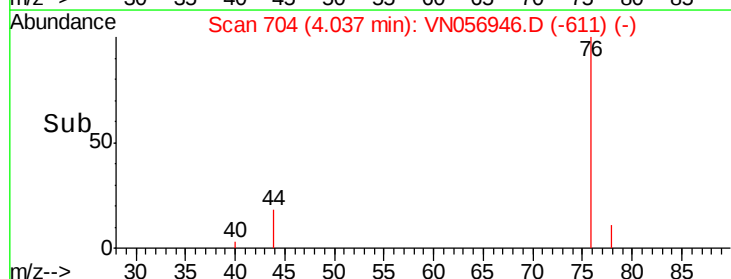
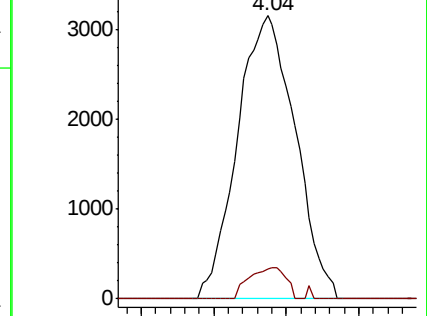
76 100

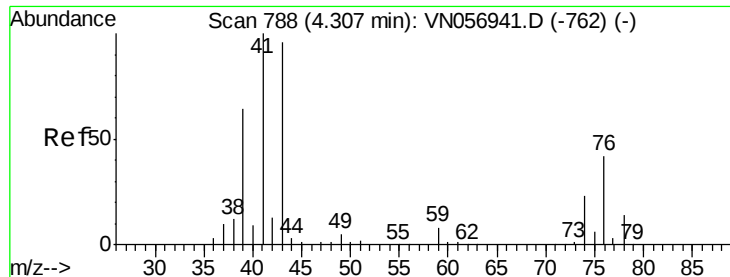
78 10.6 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

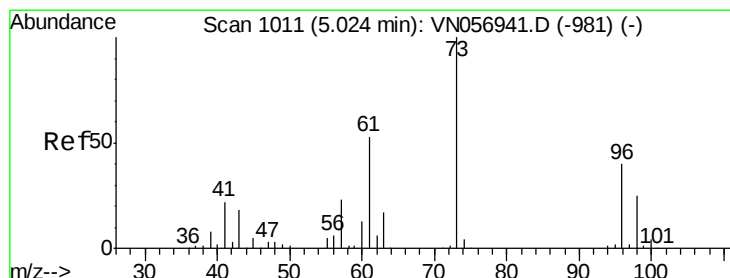
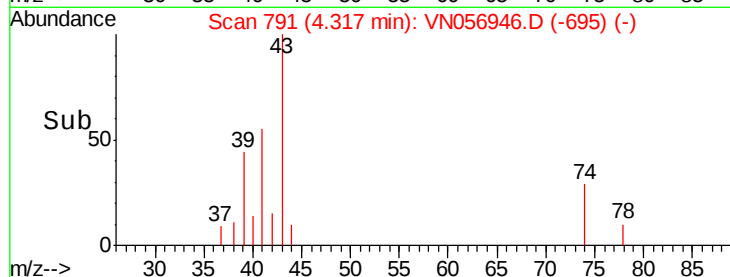
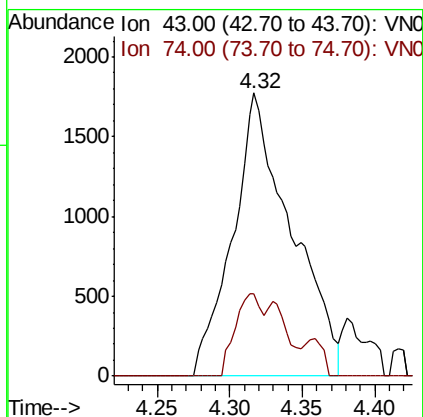
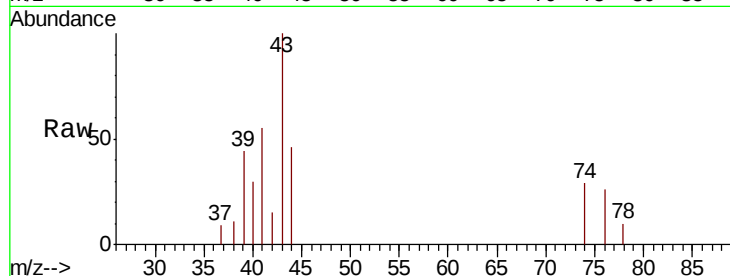




#18
Methyl Acetate
Concen: 0.741 ug/l
RT: 4.32 min Scan# 791
Delta R.T. 0.01 min
Lab File: VN056946.D
Acq: 26 Jul 2019 17:00

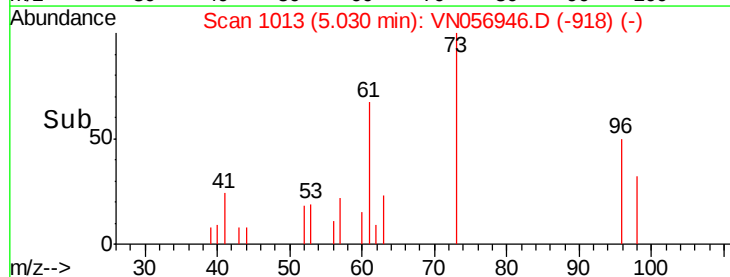
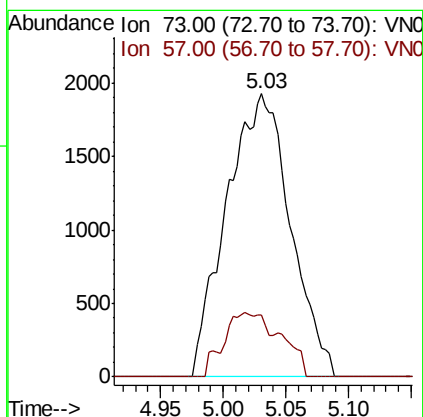
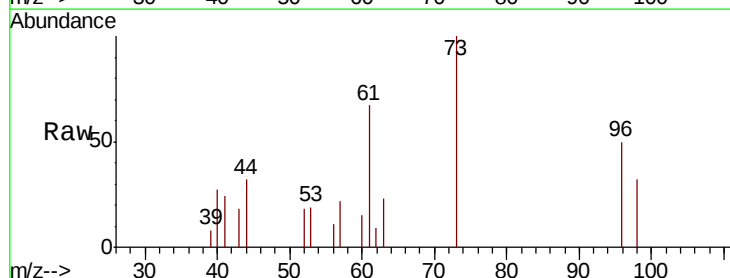
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

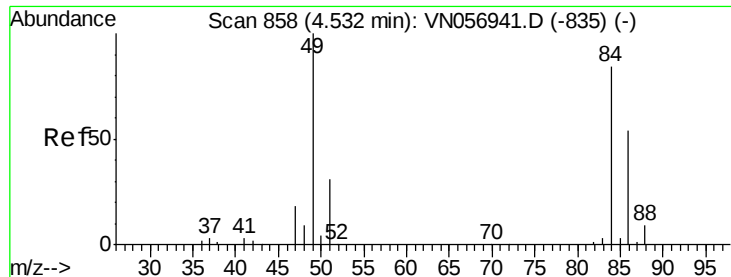
Tot Ion: 43 Resp: 4971
Ion Ratio Lower Upper
43 100
74 13.2 19.7 29.5#



#19
Methyl tert-butyl Ether
Concen: 0.459 ug/l
RT: 5.03 min Scan# 1013
Delta R.T. 0.01 min
Lab File: VN056946.D
Acq: 26 Jul 2019 17:00

Tgt Ion: 73 Resp: 6824
Ion Ratio Lower Upper
73 100
57 21.9 18.3 27.5

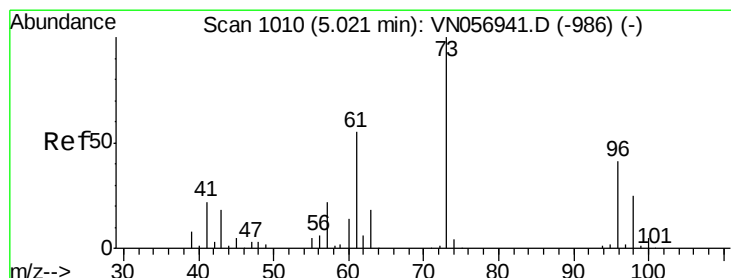
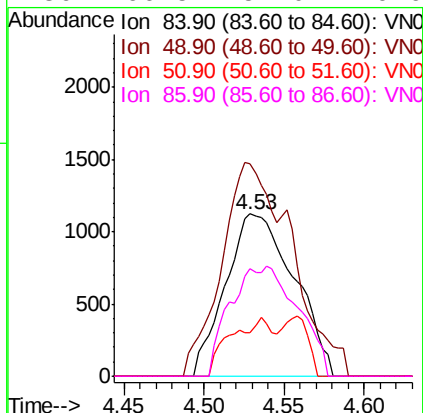
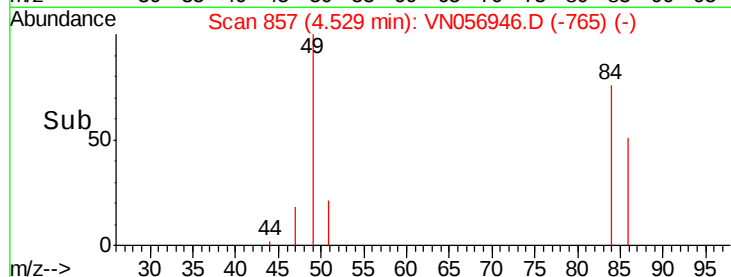
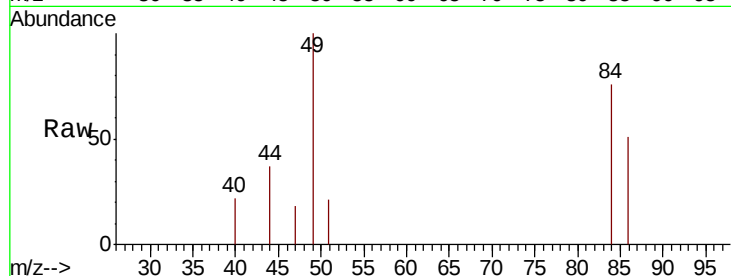




#20
Methvlene Chloride
Concen: 0.546 ug/l
RT: 4.53 min Scan# 857
Delta R.T. -0.00 min
Lab File: VN056946.D
Acq: 26 Jul 2019 17:00

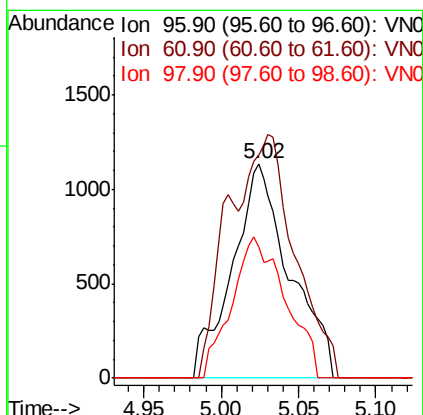
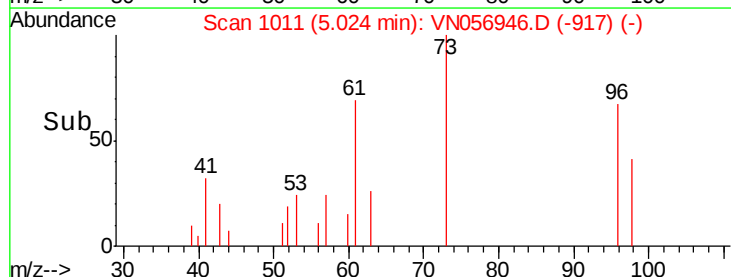
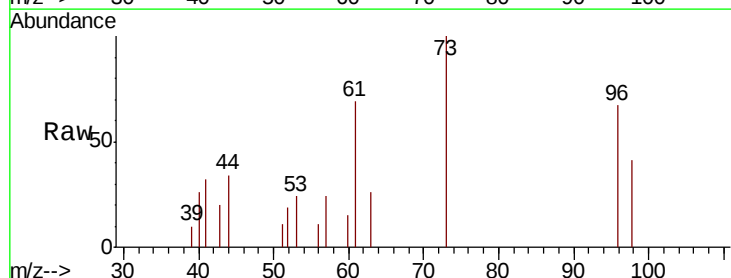
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

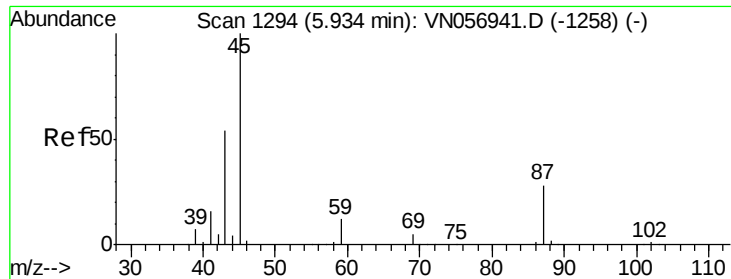
Tot Ion: 84 Resp: 3311
Ion Ratio Lower Upper
84 100
49 117.4 95.2 142.8
51 27.2 29.7 44.5#
86 66.5 51.0 76.6



#21
trans-1,2-Dichloroethene
Concen: 0.553 ug/l
RT: 5.02 min Scan# 1011
Delta R.T. 0.00 min
Lab File: VN056946.D
Acq: 26 Jul 2019 17:00

Tgt Ion: 96 Resp: 2931
Ion Ratio Lower Upper
96 100
61 104.1 107.5 161.3#
98 61.2 49.9 74.9

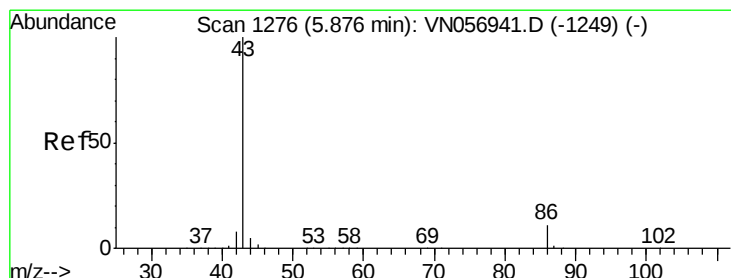
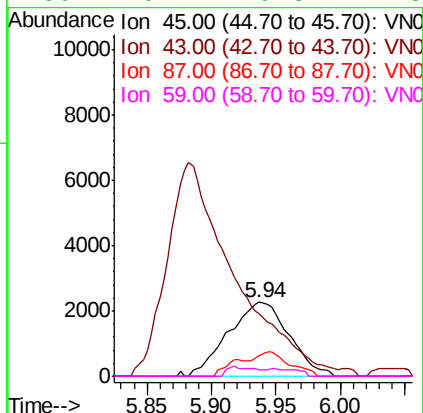
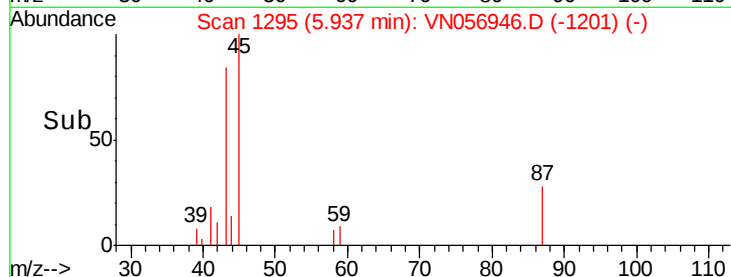
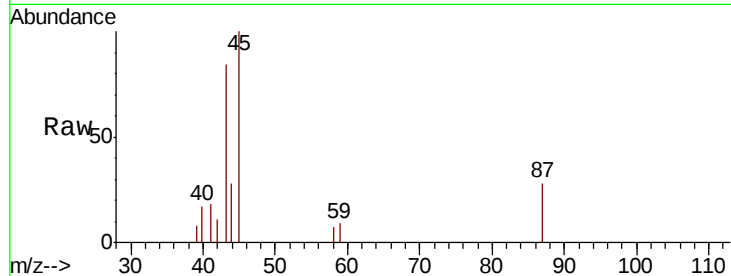




#22
Diisopropyl ether
Concen: 0.445 ug/l
RT: 5.94 min Scan# 1295
Delta R.T. 0.00 min
Lab File: VN056946.D
Acq: 26 Jul 2019 17:00

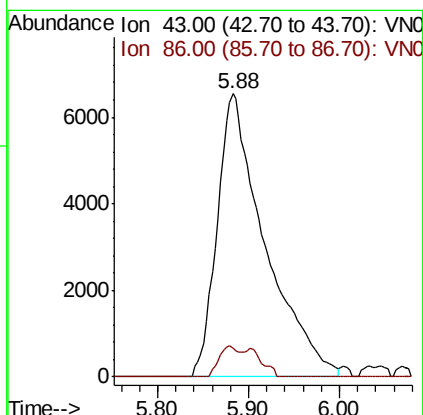
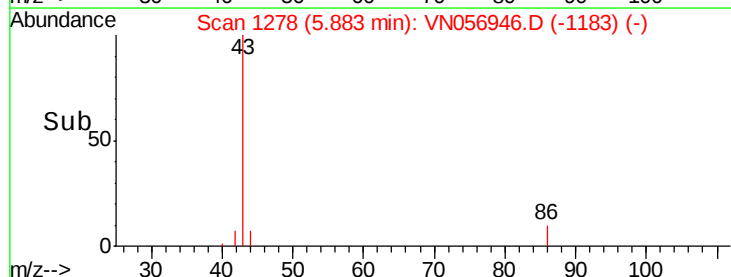
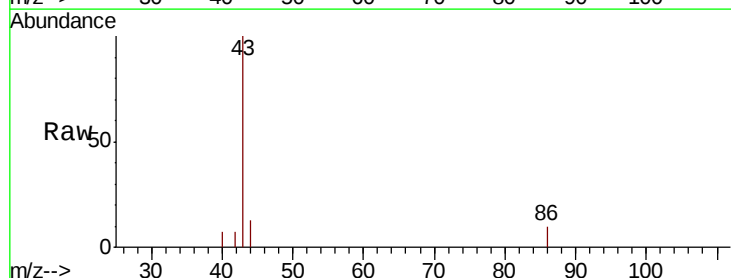
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

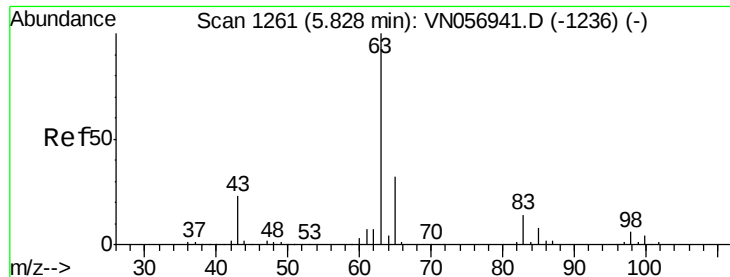
Tot Ion:	45	Resp:	7431
Ion	Ratio	Lower	Upper
45	100		
43	75.3	44.7	67.1#
87	27.9	23.0	34.6
59	9.1	9.8	14.8#



#23
Vinyl Acetate
Concen: 2.054 ug/l
RT: 5.88 min Scan# 1278
Delta R.T. 0.01 min
Lab File: VN056946.D
Acq: 26 Jul 2019 17:00

Tgt Ion:	43	Resp:	23782
Ion	Ratio	Lower	Upper
43	100		
86	10.0	8.5	12.7





#24

1,1-Dichloroethane

Concen: 0.466 ug/l

RT: 5.83 min Scan# 1263

Delta R.T. 0.01 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

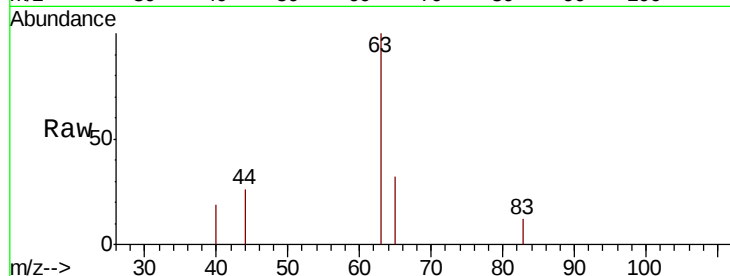
Tot Ion: 63 Resp: 4594

Ion Ratio Lower Upper

63 100

98 0.0 3.2 9.6#

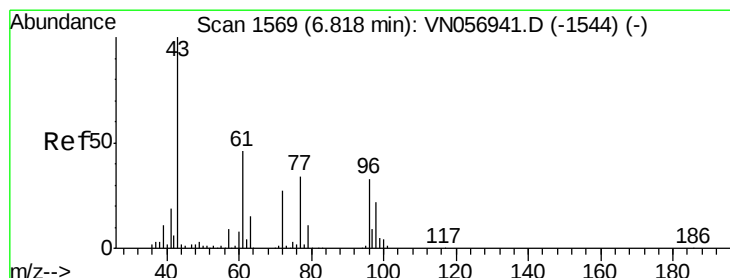
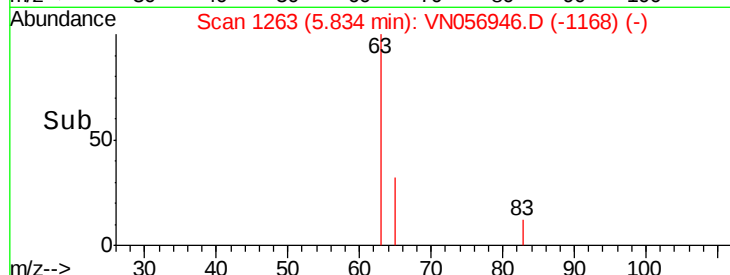
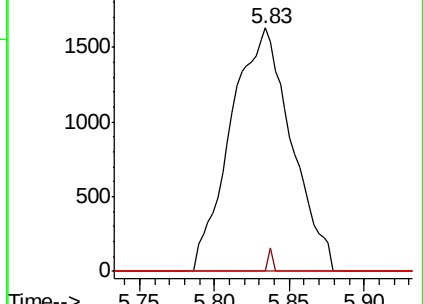
100 0.0 2.1 6.3#



Abundance Ion 62.90 (62.60 to 63.60): VN056946.D (-1236) (-)

Ion 97.90 (97.60 to 98.60): VN056946.D (-1236) (-)

Ion 99.90 (99.60 to 100.60): VN056946.D (-1236) (-)



#25

2-Butanone

Concen: 2.340 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.01 min

Lab File: VN056946.D

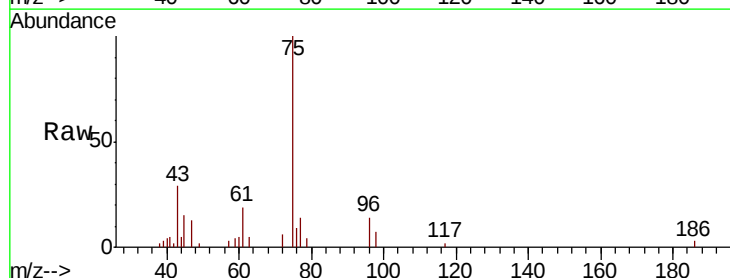
Acq: 26 Jul 2019 17:00

Tgt Ion: 43 Resp: 6981

Ion Ratio Lower Upper

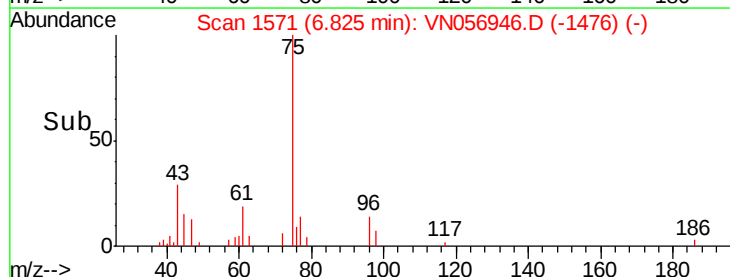
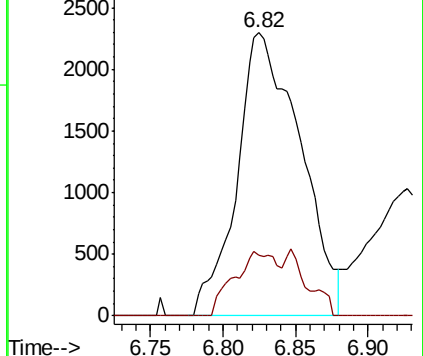
43 100

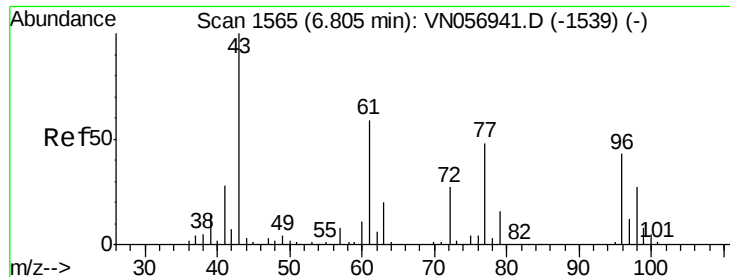
72 21.4 21.5 32.3#



Abundance Ion 43.00 (42.70 to 43.70): VN056946.D (-1476) (-)

Ion 72.00 (71.70 to 72.70): VN056946.D (-1476) (-)





#26

2,2-Dichloropropane

Concen: 0.584 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. 0.01 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

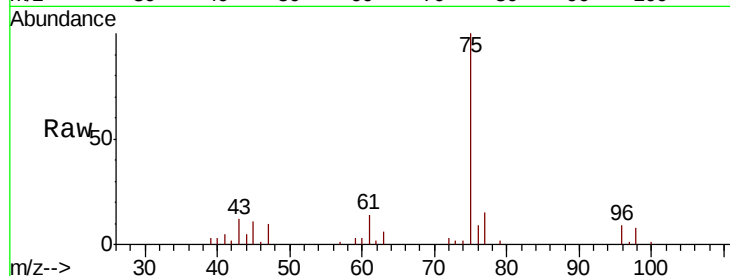
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 77 Resp: 4376

Ion Ratio Lower Upper

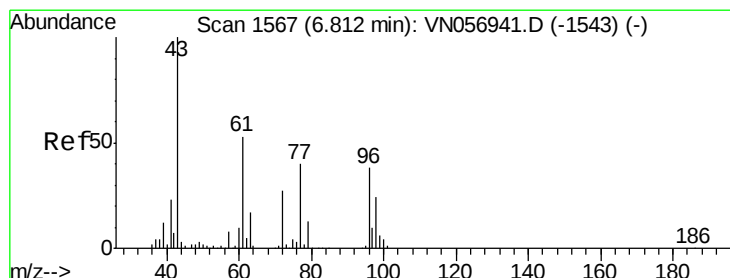
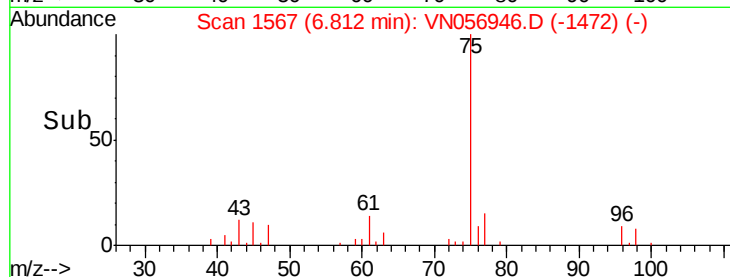
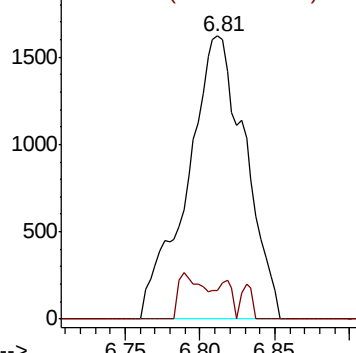
77 100

97 3.4 12.2 36.6#



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0



#27

cis-1,2-Dichloroethene

Concen: 0.497 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.01 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

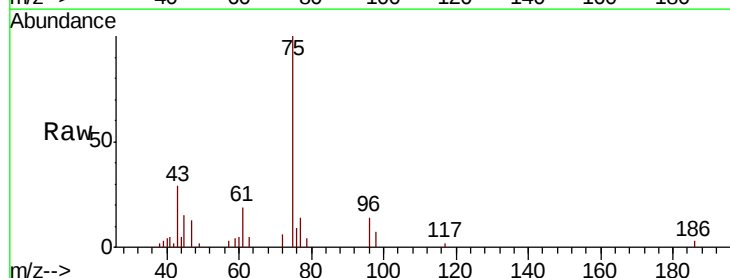
Tgt Ion: 96 Resp: 3111

Ion Ratio Lower Upper

96 100

61 164.6 0.0 277.2

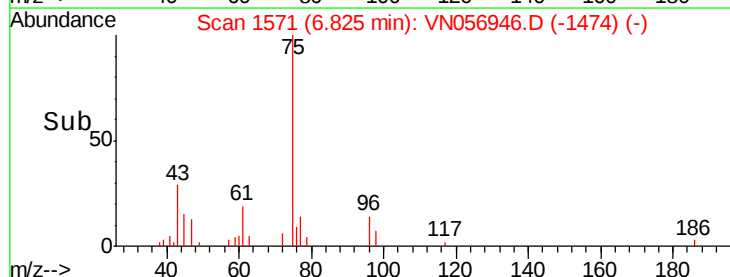
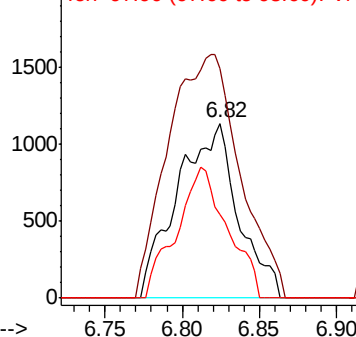
98 62.7 0.0 128.4

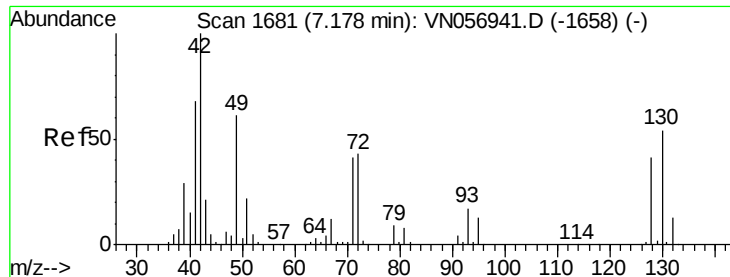


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

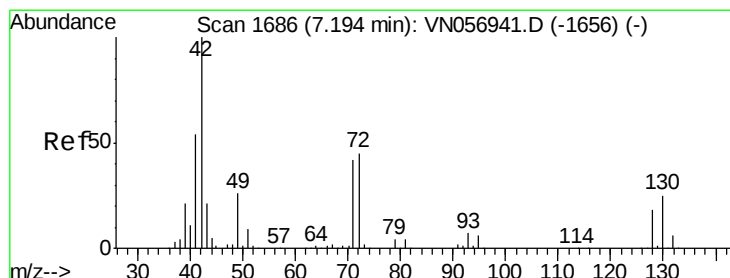
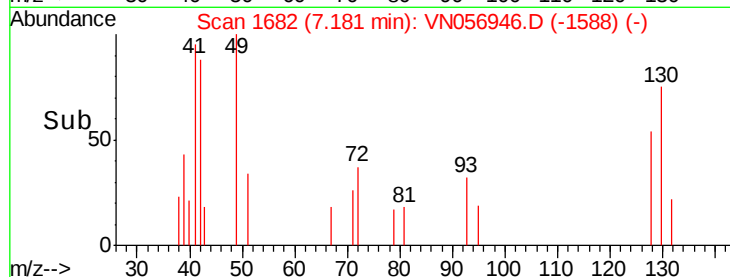
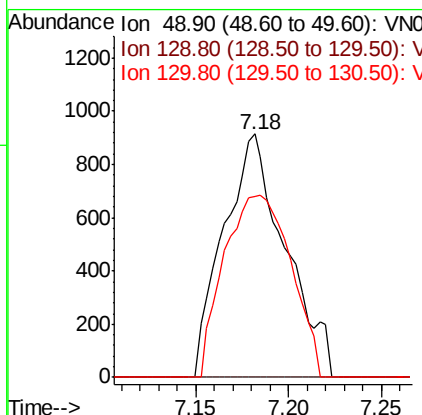
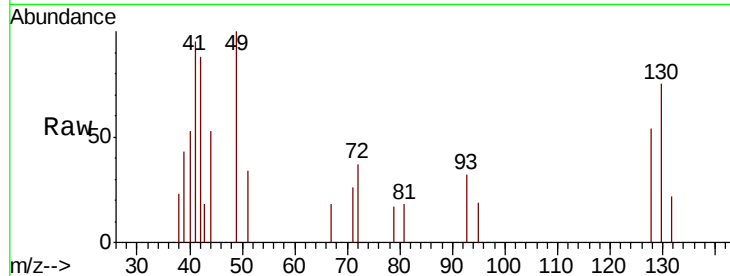




#28
Bromochloromethane
Concen: 0.456 ug/l
RT: 7.18 min Scan# 1682
Delta R.T. 0.00 min
Lab File: VN056946.D
Acq: 26 Jul 2019 17:00

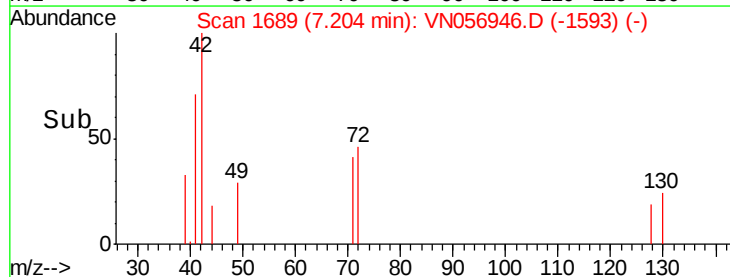
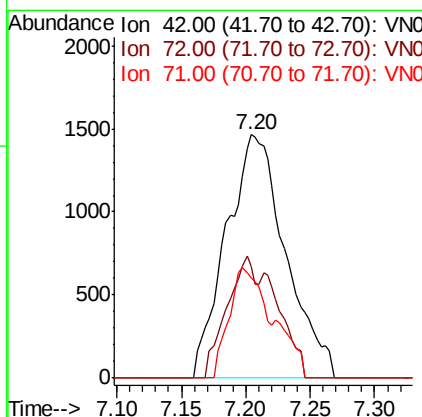
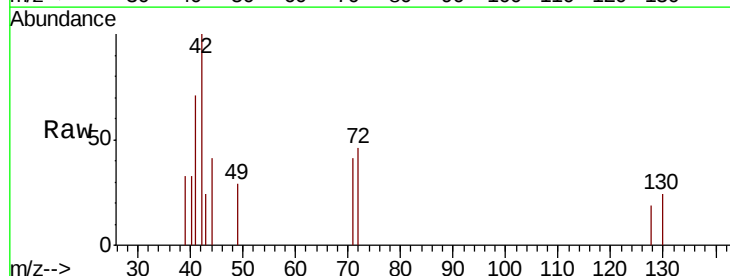
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

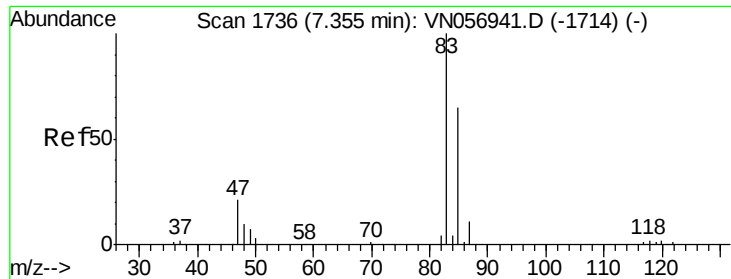
Tot Ion: 49 Resp: 2113
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.6
130 81.0 69.0 103.4



#29
Tetrahydrofuran
Concen: 2.413 ug/l
RT: 7.20 min Scan# 1689
Delta R.T. 0.01 min
Lab File: VN056946.D
Acq: 26 Jul 2019 17:00

Tgt Ion: 42 Resp: 4696
Ion Ratio Lower Upper
42 100
72 25.4 35.6 53.4#
71 26.1 33.5 50.3#

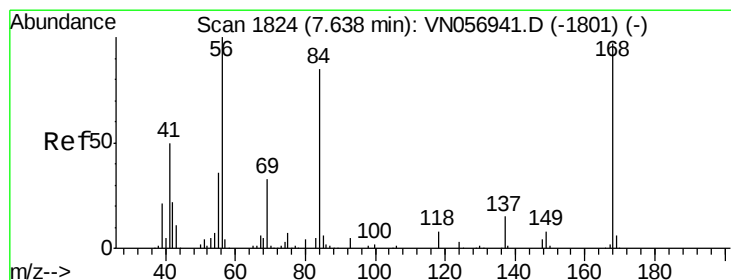
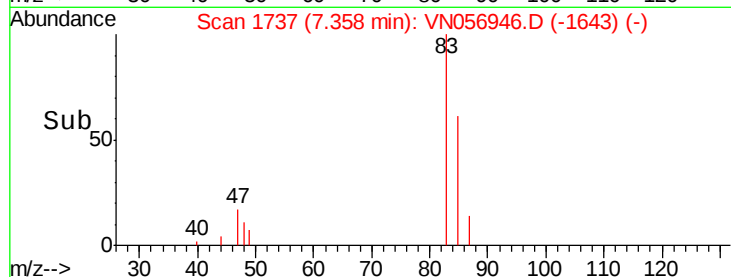
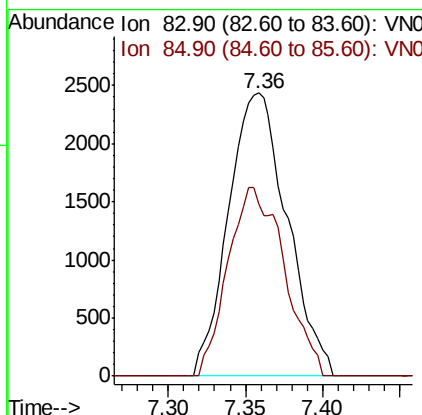
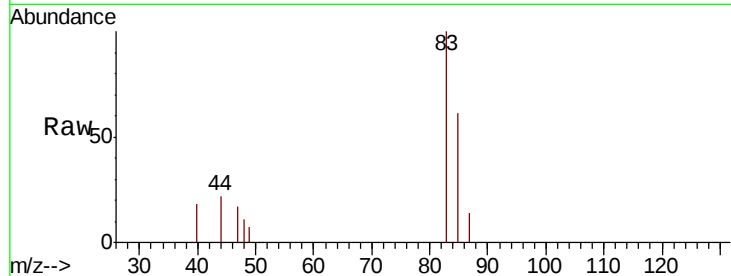




#30
Chloroform
Concen: 0.635 ug/l
RT: 7.36 min Scan# 1737
Delta R.T. 0.00 min
Lab File: VN056946.D
Acq: 26 Jul 2019 17:00

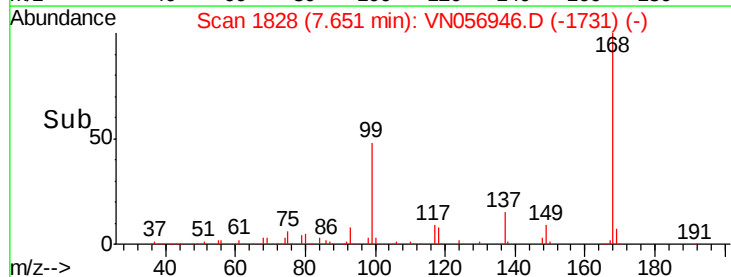
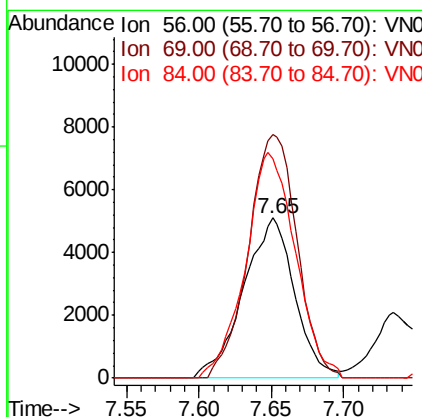
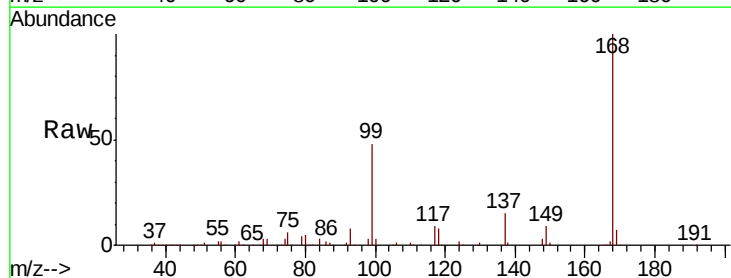
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

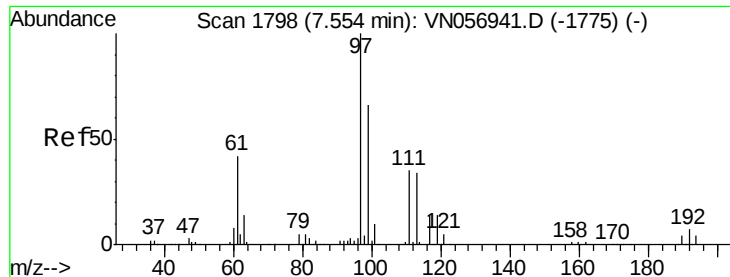
Tot Ion: 83 Resp: 6404
Ion Ratio Lower Upper
83 100
85 60.9 52.2 78.2



#31
Cyclohexane
Concen: 1.313 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.01 min
Lab File: VN056946.D
Acq: 26 Jul 2019 17:00

Tgt Ion: 56 Resp: 12533
Ion Ratio Lower Upper
56 100
69 152.2 26.2 39.2#
84 137.0 68.2 102.2#





#32

1,1,1-Trichloroethane

Concen: 0.457 ug/l

RT: 7.56 min Scan# 1799

Delta R.T. 0.00 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

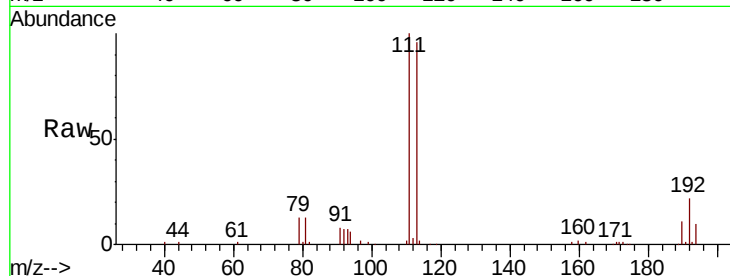
Tot Ion: 97 Resp: 3676

Ion Ratio Lower Upper

97 100

99 0.0 52.3 78.5#

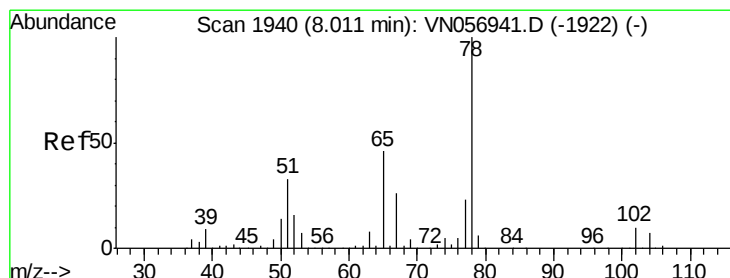
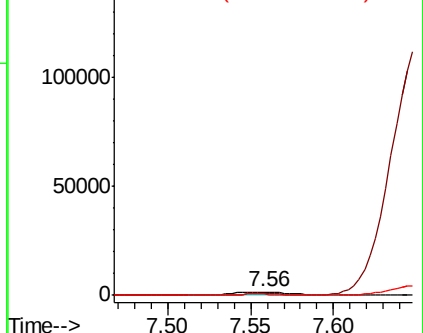
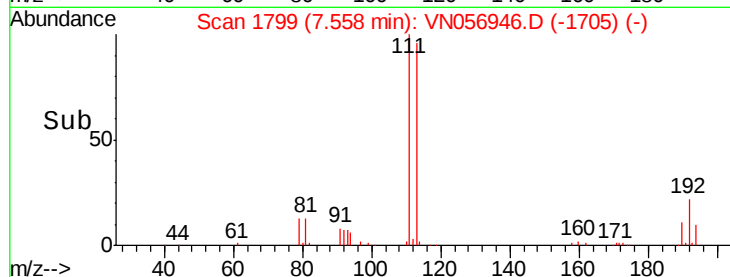
61 36.5 33.9 50.9



Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0



#33

1,2-Dichloroethane-d4

Concen: 54.282 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN056946.D

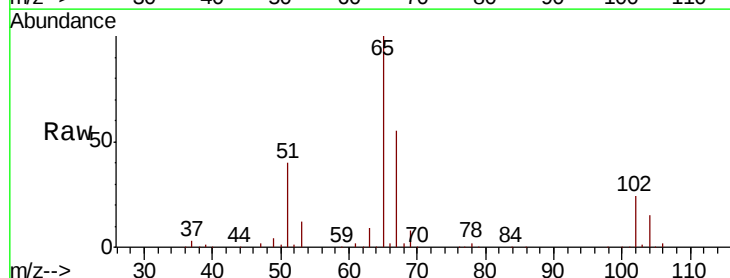
Acq: 26 Jul 2019 17:00

Tgt Ion: 65 Resp: 315216

Ion Ratio Lower Upper

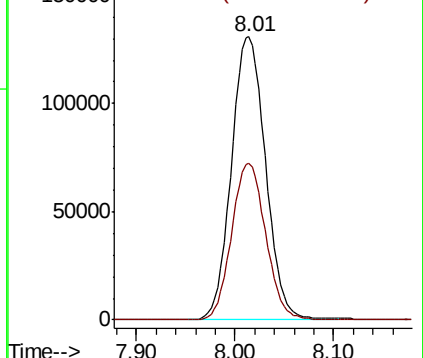
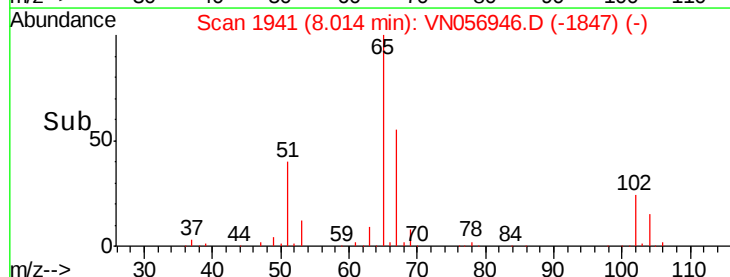
65 100

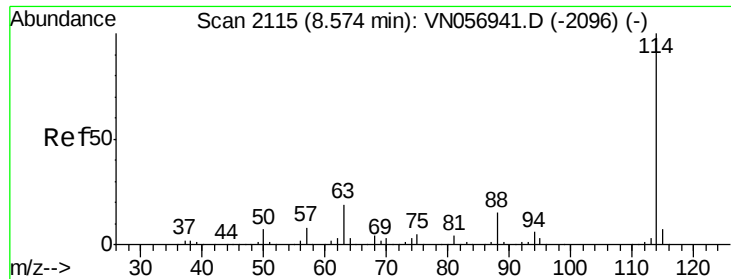
67 55.3 0.0 112.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

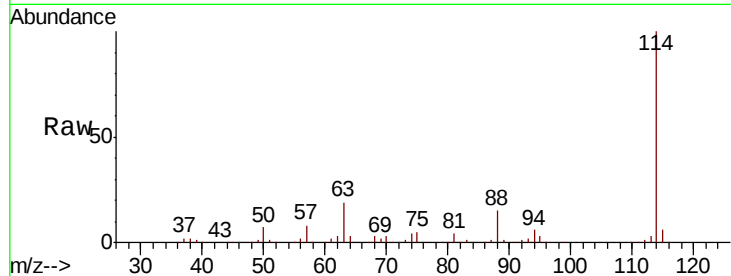




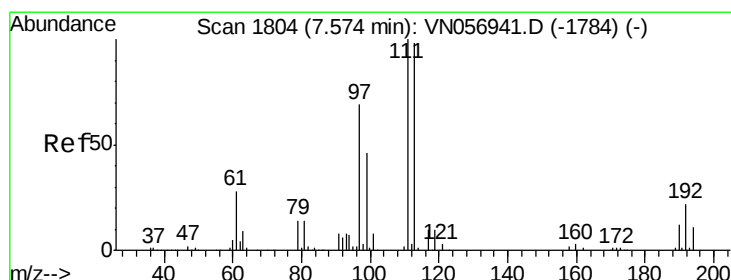
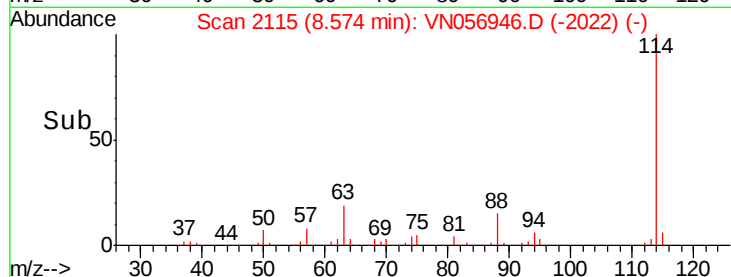
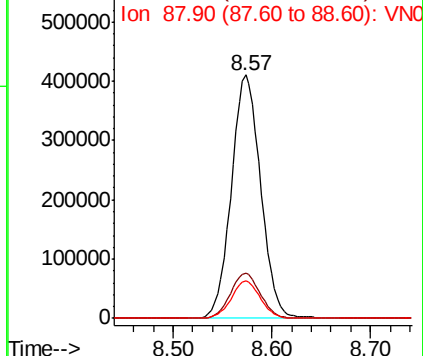
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2115
Delta R.T. -0.00 min
Lab File: VN056946.D
Acq: 26 Jul 2019 17:00

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion:114 Resp: 849402
Ion Ratio Lower Upper
114 100
63 18.6 0.0 38.0
88 15.3 0.0 30.0

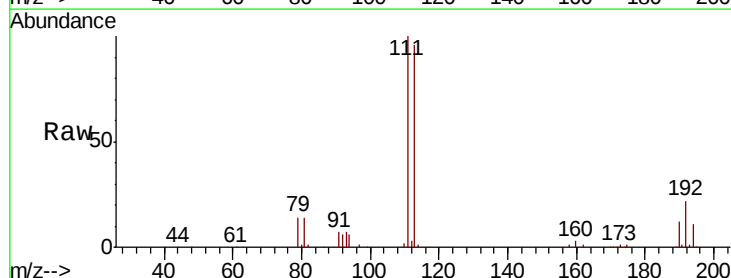


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

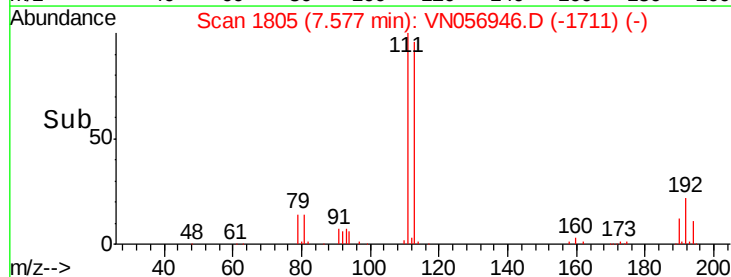
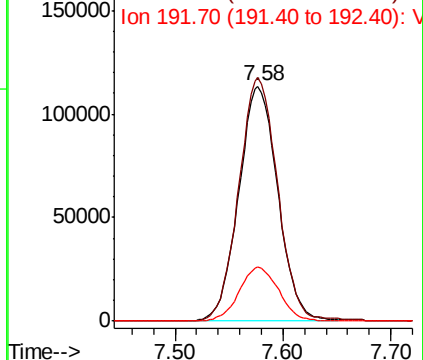


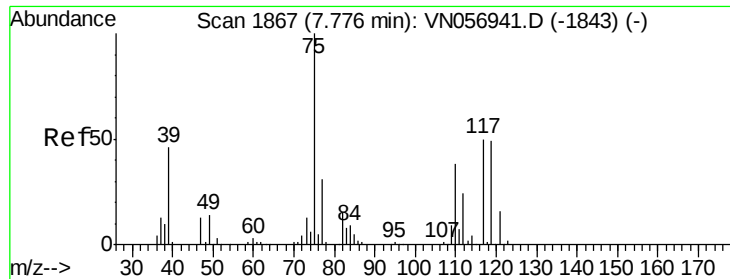
#35
Dibromofluoromethane
Concen: 52.629 ug/l
RT: 7.58 min Scan# 1805
Delta R.T. 0.00 min
Lab File: VN056946.D
Acq: 26 Jul 2019 17:00

Tgt Ion:113 Resp: 286176
Ion Ratio Lower Upper
113 100
111 103.4 82.0 123.0
192 23.2 18.4 27.6



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





#36

1,1-Dichloropropene

Concen: 0.502 ug/l

RT: 7.78 min Scan# 1868

Delta R.T. 0.00 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

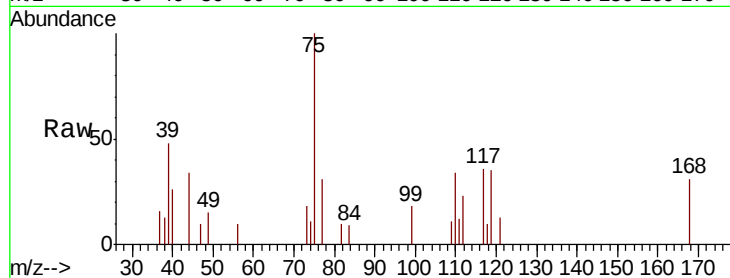
Tot Ion: 75 Resp: 3749

Ion Ratio Lower Upper

75 100

110 23.8 18.6 55.8

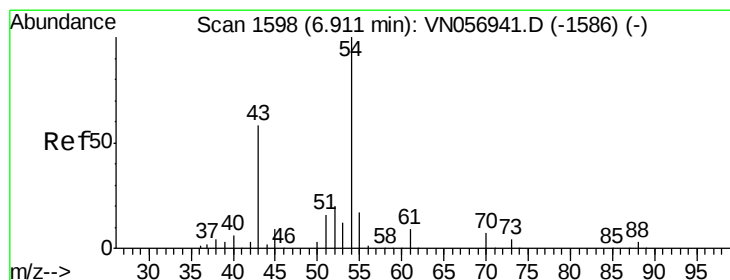
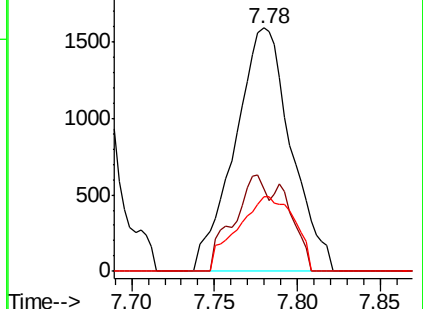
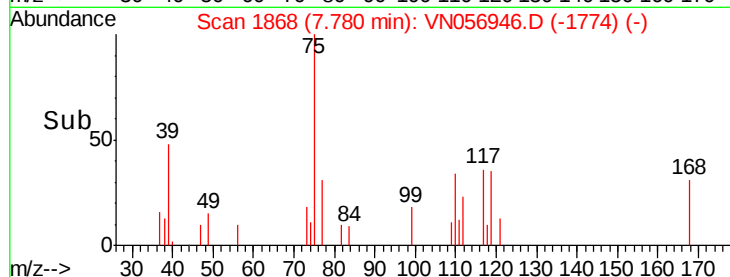
77 31.0 25.2 37.8



Abundance Ion 74.90 (74.60 to 75.60): VN056946.D (-1774) (-)

Ion 109.90 (109.60 to 110.60): VN056946.D (-1774) (-)

Ion 76.90 (76.60 to 77.60): VN056946.D (-1774) (-)



#37

Ethyl Acetate

Concen: 0.592 ug/l

RT: 6.93 min Scan# 1603

Delta R.T. 0.02 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

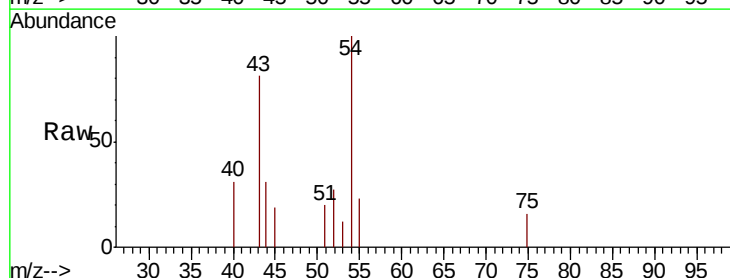
Tgt Ion: 43 Resp: 3543

Ion Ratio Lower Upper

43 100

61 0.0 11.8 17.6#

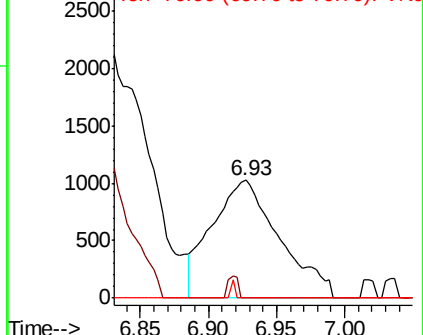
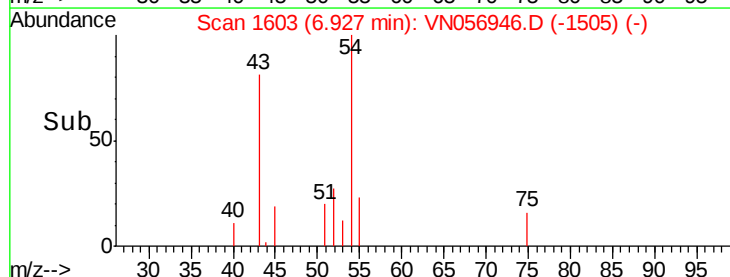
70 0.9 8.5 12.7#

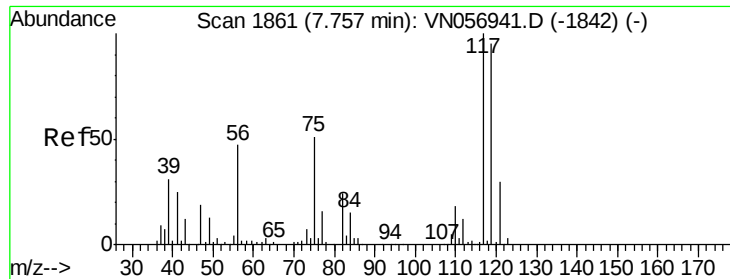


Abundance Ion 43.00 (42.70 to 43.70): VN056946.D (-1505) (-)

Ion 60.90 (60.60 to 61.60): VN056946.D (-1505) (-)

Ion 70.00 (69.70 to 70.70): VN056946.D (-1505) (-)

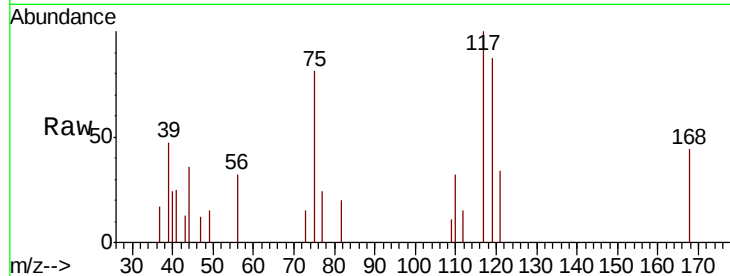




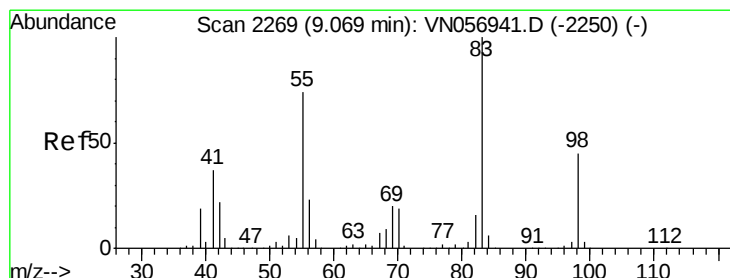
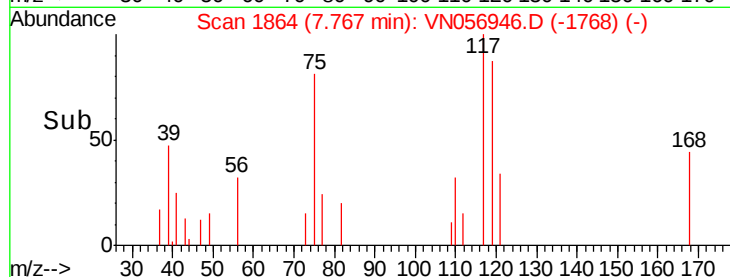
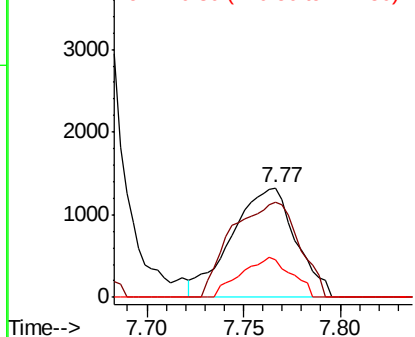
#38
Carbon Tetrachloride
Concen: 0.430 ug/l
RT: 7.77 min Scan# 1864
Delta R.T. 0.01 min
Lab File: VN056946.D
Acq: 26 Jul 2019 17:00

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion:117 Resp: 3037
Ion Ratio Lower Upper
117 100
119 87.1 75.3 112.9
121 33.9 24.2 36.4

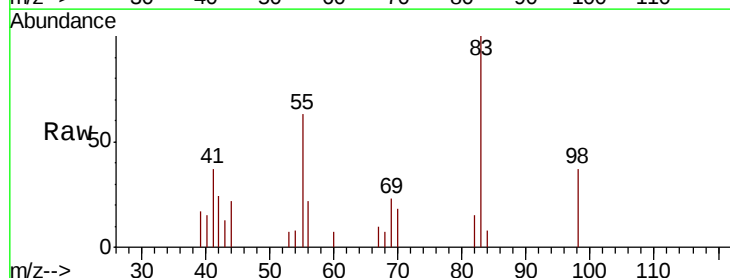


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

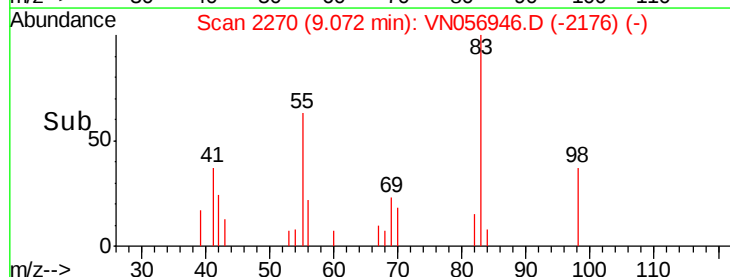
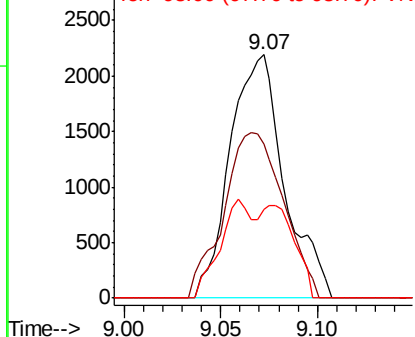


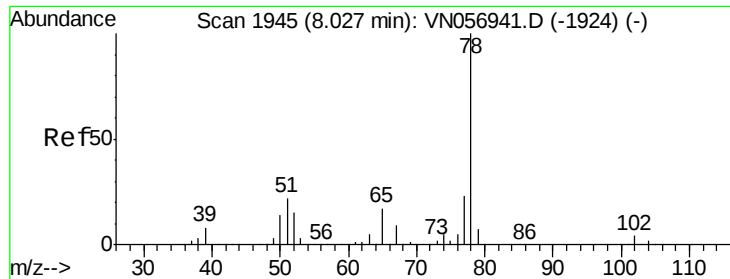
#39
Methylcyclohexane
Concen: 0.449 ug/l
RT: 9.07 min Scan# 2270
Delta R.T. 0.00 min
Lab File: VN056946.D
Acq: 26 Jul 2019 17:00

Tgt Ion: 83 Resp: 4293
Ion Ratio Lower Upper
83 100
55 63.1 59.0 88.6
98 36.5 36.2 54.4



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





#40

Benzene

Concen: 0.464 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

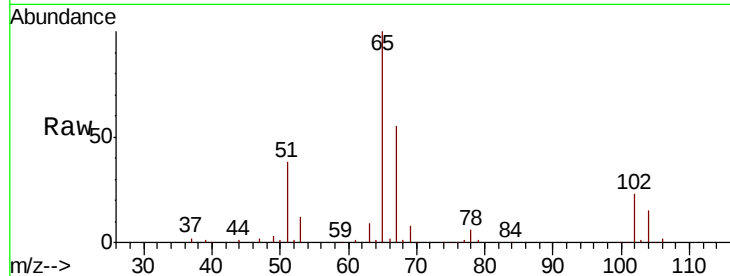
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 78 Resp: 10684

Ion Ratio Lower Upper

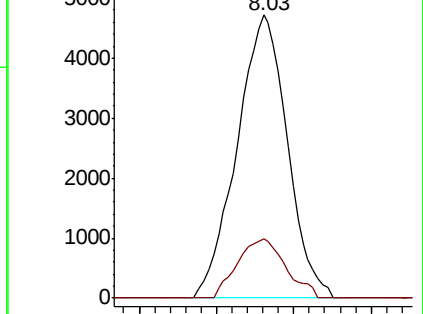
78 100

77 20.9 18.3 27.5

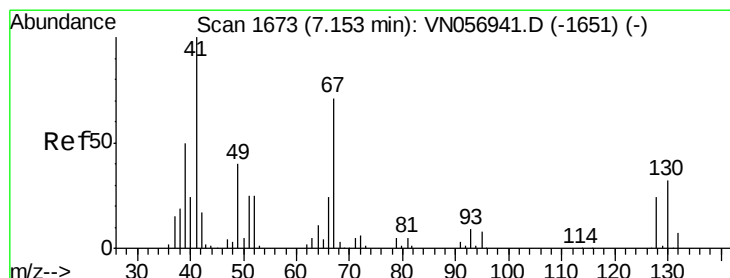
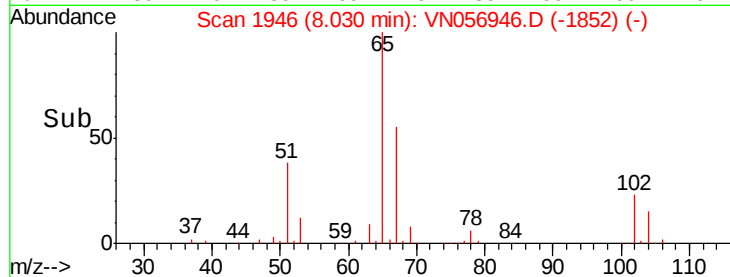


Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0



Time-->



#41

Methacrylonitrile

Concen: 0.390 ug/l

RT: 7.17 min Scan# 1677

Delta R.T. 0.01 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

Tgt Ion: 41 Resp: 1080

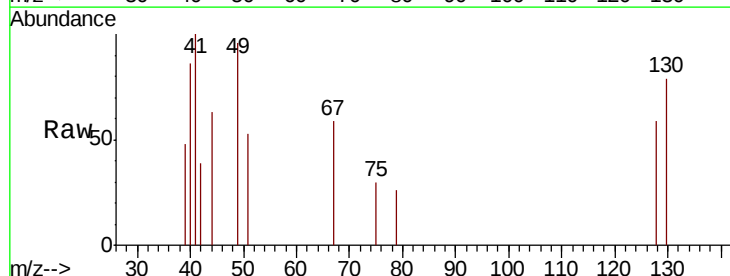
Ion Ratio Lower Upper

41 100

39 37.3 48.9 73.3#

67 77.6 83.4 125.0#

52 5.9 30.9 46.3#

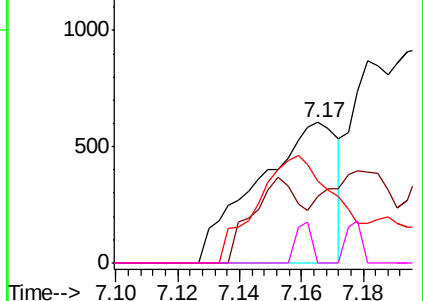


Abundance Ion 41.00 (40.70 to 41.70): VN0

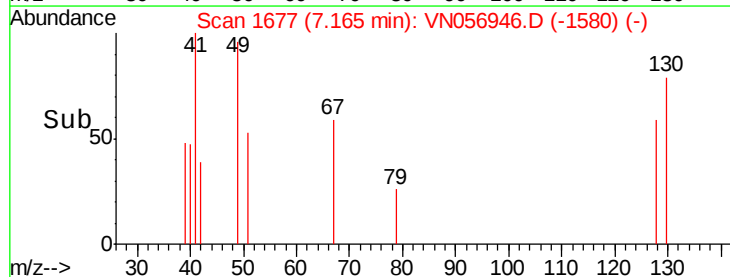
Ion 39.00 (38.70 to 39.70): VN0

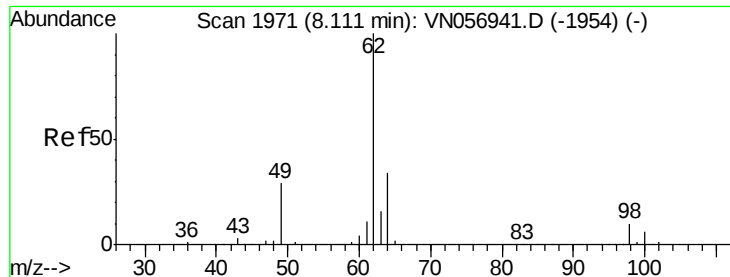
Ion 67.00 (66.70 to 67.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



Time-->

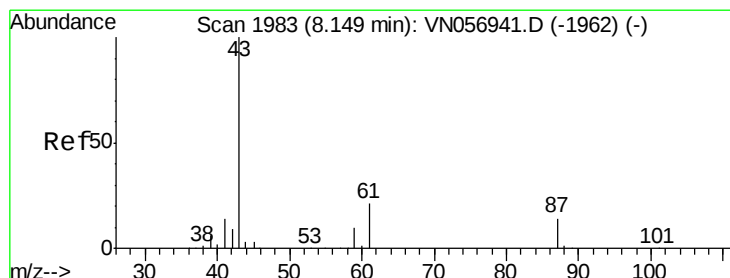
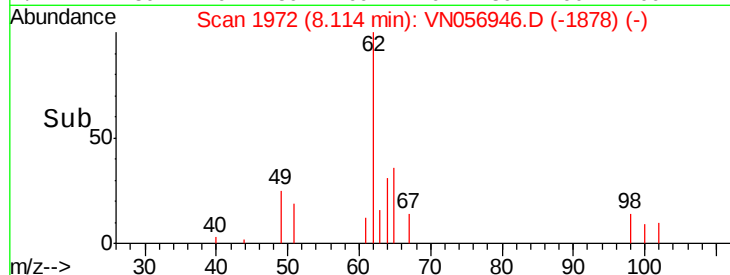
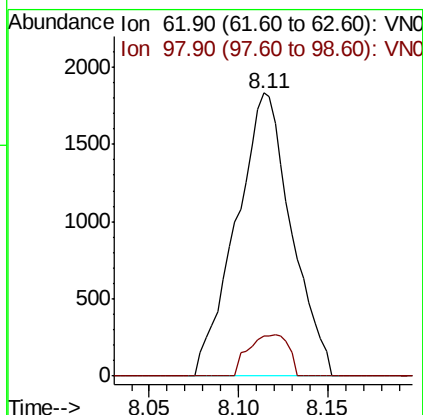
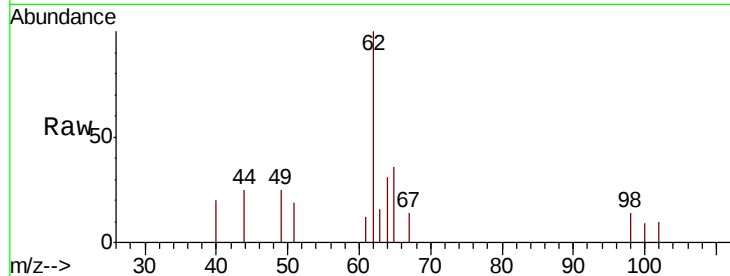




#42
 1,2-Dichloroethane
 Concen: 0.548 ug/l
 RT: 8.11 min Scan# 1972
 Delta R.T. 0.00 min
 Lab File: VN056946.D
 Acq: 26 Jul 2019 17:00

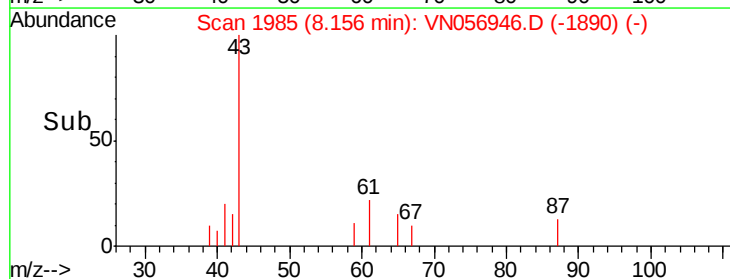
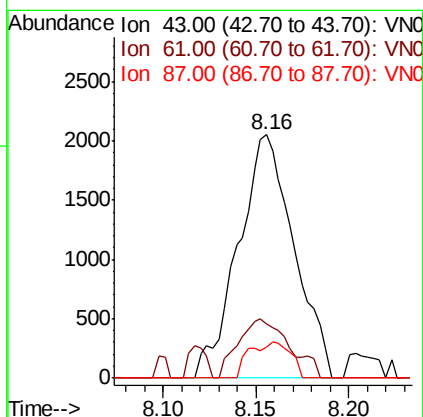
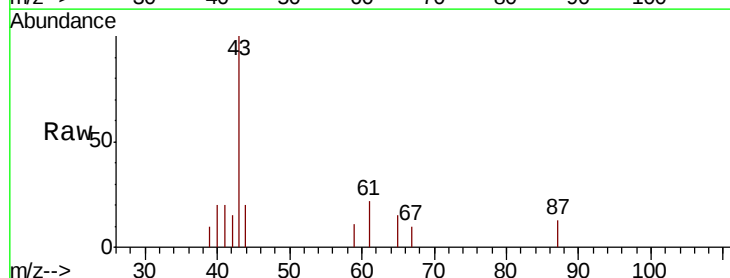
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

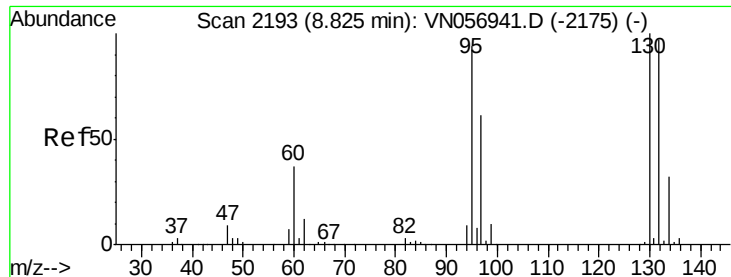
Tot Ion: 62 Resp: 3953
 Ion Ratio Lower Upper
 62 100
 98 10.6 0.0 20.6



#43
 Isopropyl Acetate
 Concen: 0.434 ug/l
 RT: 8.16 min Scan# 1985
 Delta R.T. 0.01 min
 Lab File: VN056946.D
 Acq: 26 Jul 2019 17:00

Tgt Ion: 43 Resp: 4291
 Ion Ratio Lower Upper
 43 100
 61 22.3 23.0 34.6#
 87 10.9 11.7 17.5#





#44

Trichloroethene

Concen: 0.508 ug/l

RT: 8.83 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

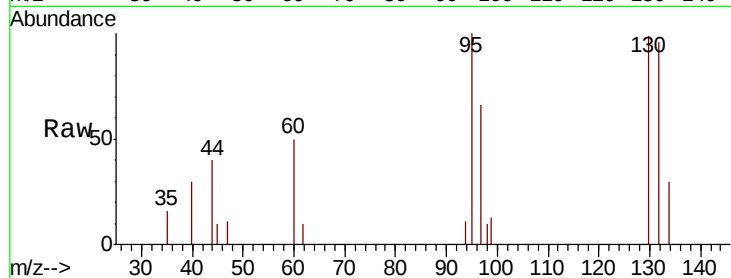
MDL-MDL-WATER-03-QT3-2019

Tot Ion:130 Resp: 3221

Ion Ratio Lower Upper

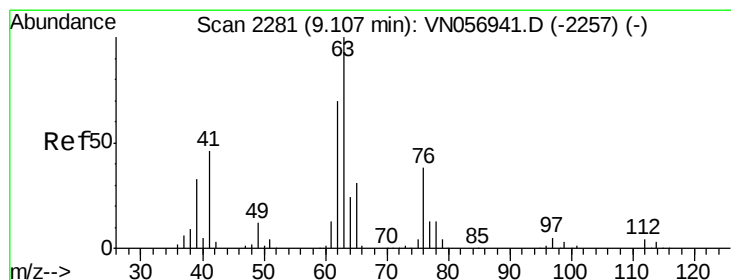
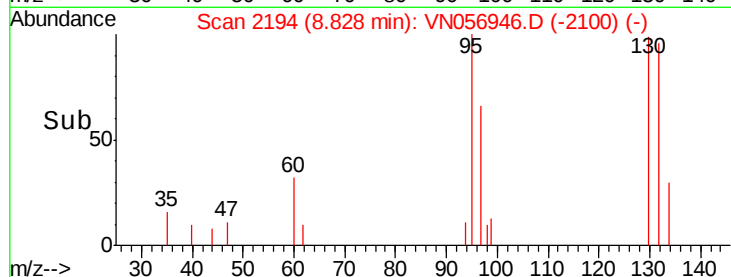
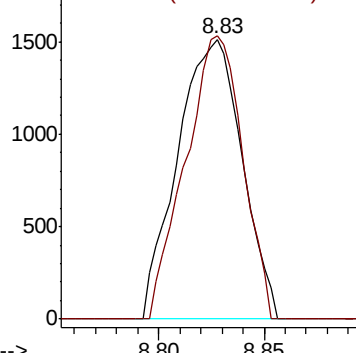
130 100

95 101.3 0.0 189.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0



#45

1,2-Dichloropropane

Concen: 0.459 ug/l

RT: 9.10 min Scan# 2280

Delta R.T. -0.00 min

Lab File: VN056946.D

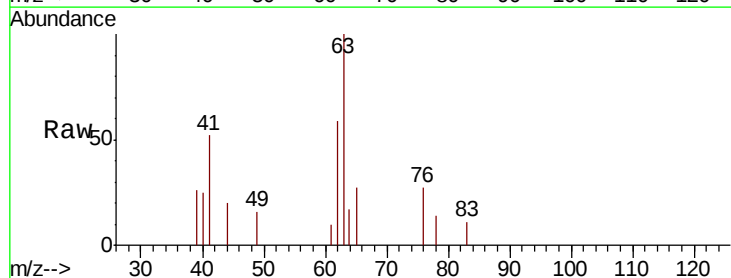
Acq: 26 Jul 2019 17:00

Tgt Ion: 63 Resp: 2828

Ion Ratio Lower Upper

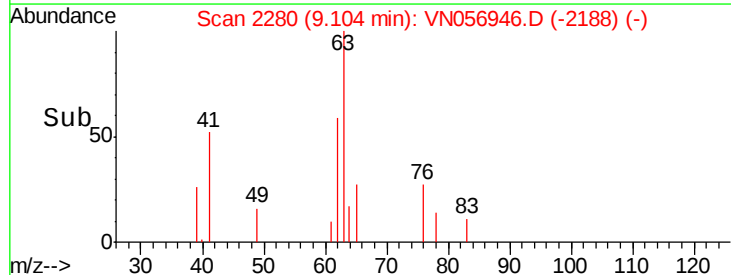
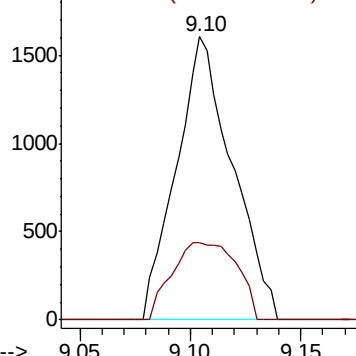
63 100

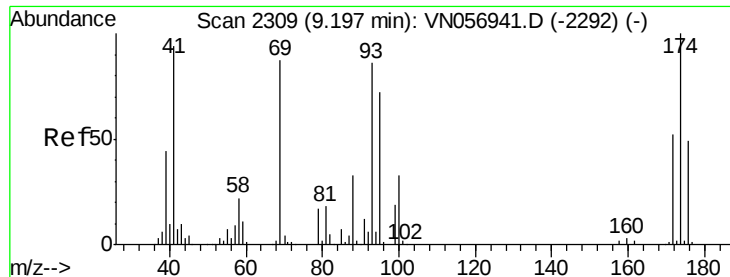
65 27.1 24.8 37.2



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0





#46

Dibromomethane

Concen: 0.479 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. -0.00 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

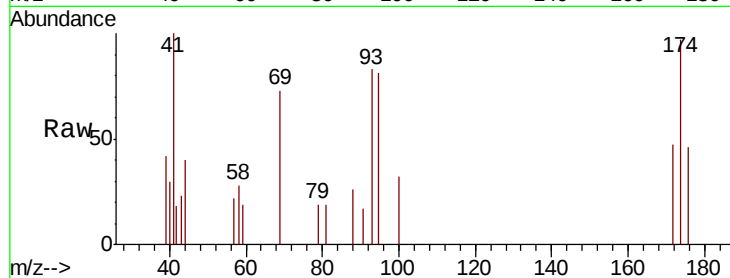
Tot Ion: 93 Resp: 1779

Ion Ratio Lower Upper

93 100

95 90.1 67.0 100.6

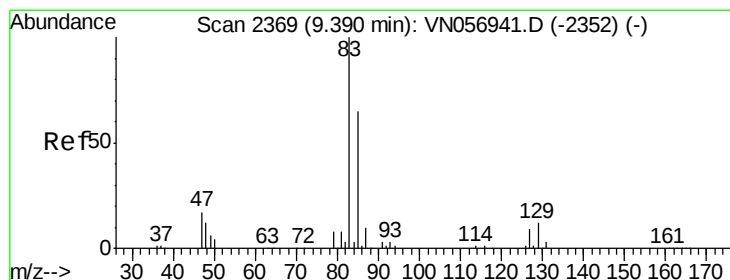
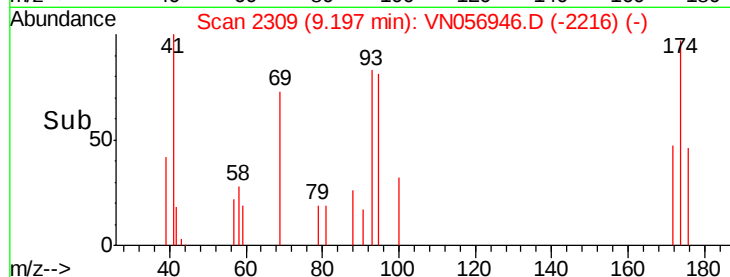
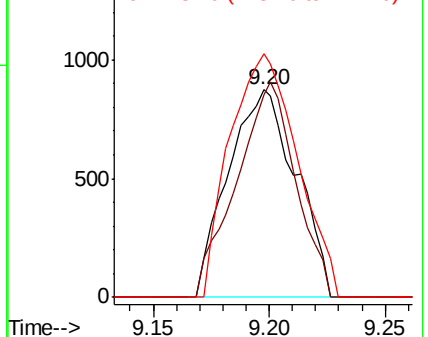
174 117.1 92.7 139.1



Abundance Ion 92.80 (92.50 to 93.50): VN056946.D (-2216) (-)

Ion 94.80 (94.50 to 95.50): VN056946.D (-2216) (-)

Ion 173.70 (173.40 to 174.40): VN056946.D (-2216) (-)



#47

Bromodichloromethane

Concen: 0.465 ug/l

RT: 9.39 min Scan# 2369

Delta R.T. -0.00 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

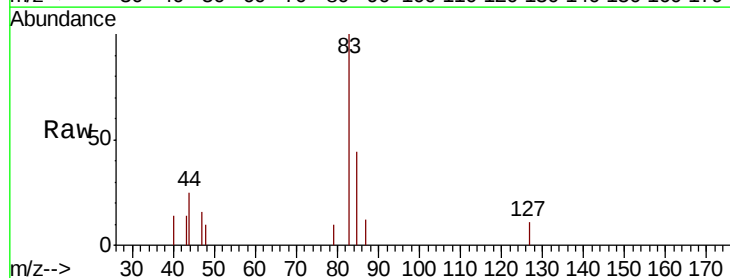
Tgt Ion: 83 Resp: 3397

Ion Ratio Lower Upper

83 100

85 44.1 51.6 77.4#

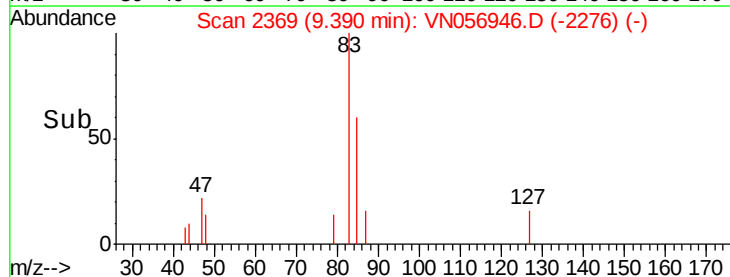
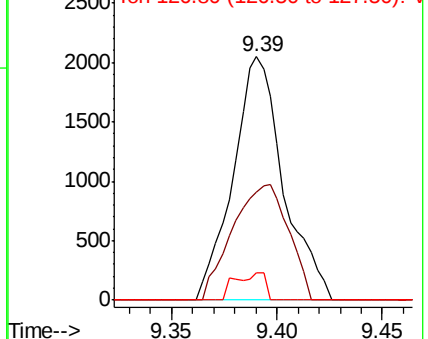
127 11.4 7.3 10.9#

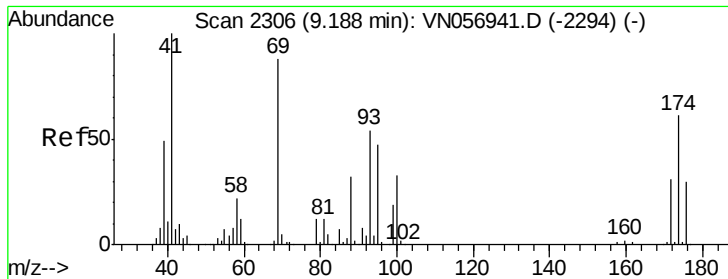


Abundance Ion 82.90 (82.60 to 83.60): VN056946.D (-2276) (-)

Ion 84.90 (84.60 to 85.60): VN056946.D (-2276) (-)

Ion 126.80 (126.50 to 127.50): VN056946.D (-2276) (-)

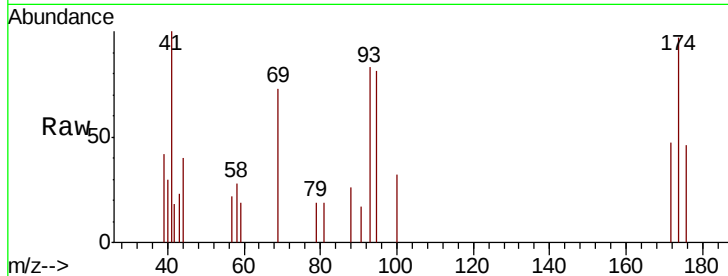




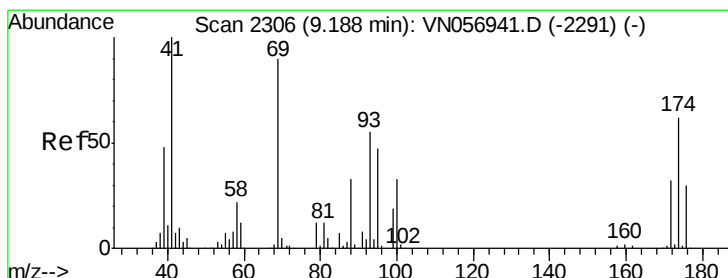
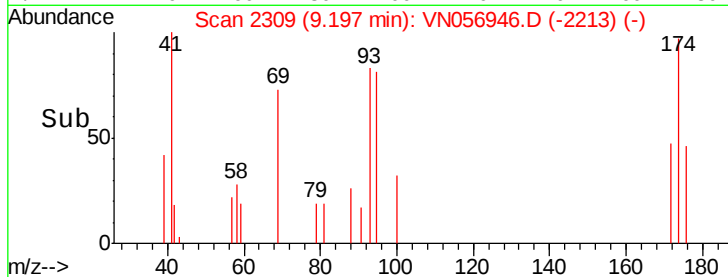
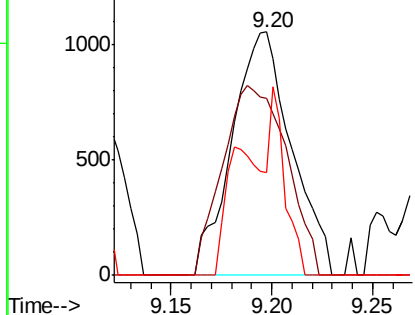
#48
Methvl methacrylate
Concen: 0.454 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. 0.01 min
Lab File: VN056946.D
Acq: 26 Jul 2019 17:00

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 41 Resp: 2170
Ion Ratio Lower Upper
41 100
69 0.0 73.4 110.0#
39 19.4 39.9 59.9#

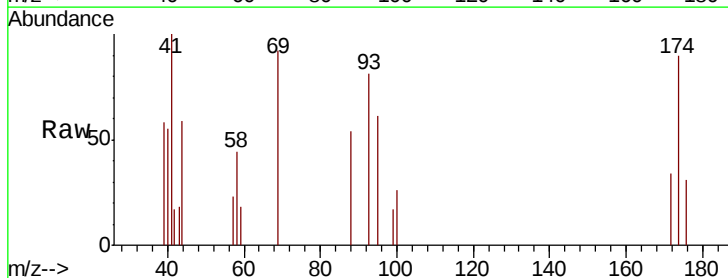


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

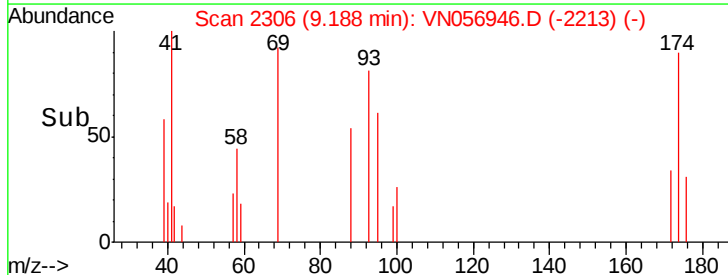
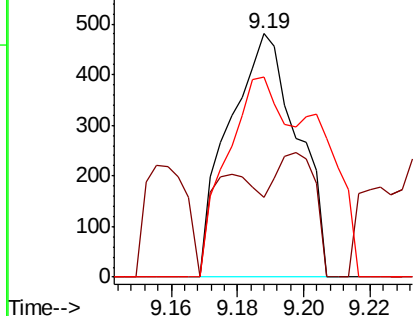


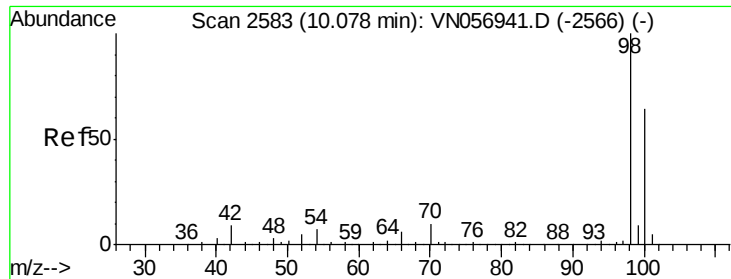
#49
1,4-Dioxane
Concen: 7.019 ug/l
RT: 9.19 min Scan# 2306
Delta R.T. 0.00 min
Lab File: VN056946.D
Acq: 26 Jul 2019 17:00

Tgt Ion: 88 Resp: 691
Ion Ratio Lower Upper
88 100
43 30.7 22.2 33.2
58 74.7 54.1 81.1



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





#50

Toluene-d8

Concen: 51.546 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

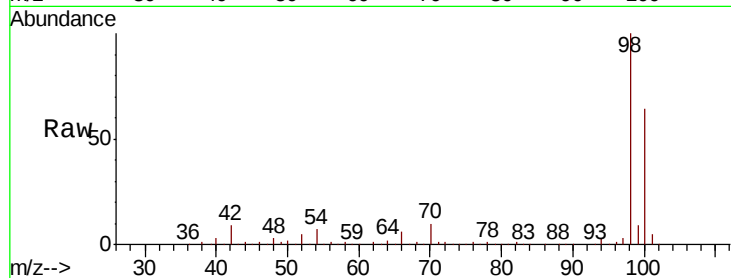
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 98 Resp: 1068857

Ion Ratio Lower Upper

98 100

100 64.4 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN056946.D (-2566) (-)

Ion 100.00 (99.70 to 100.70): VN056946.D (-2566) (-)

10.08

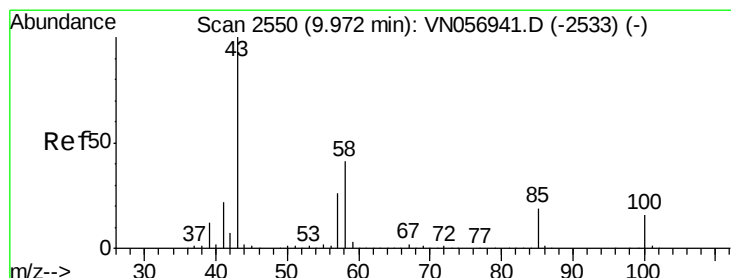
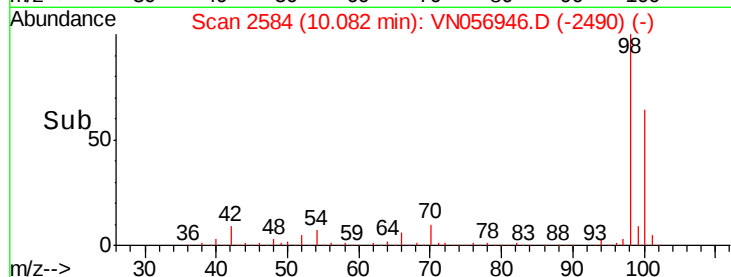
600000

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 2.166 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN056946.D

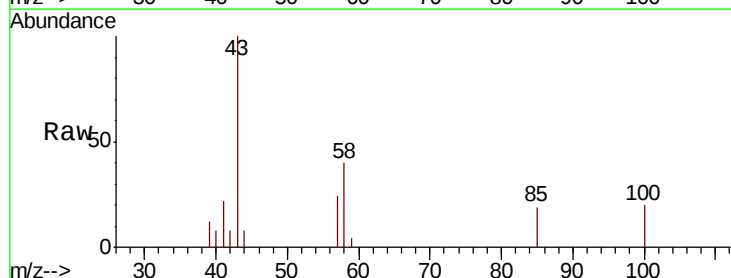
Acq: 26 Jul 2019 17:00

Tgt Ion: 43 Resp: 12732

Ion Ratio Lower Upper

43 100

58 44.2 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VN056946.D (-2457) (-)

Ion 58.00 (57.70 to 58.70): VN056946.D (-2457) (-)

9.98

8000

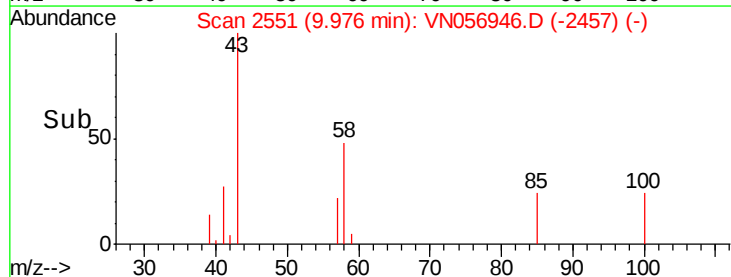
6000

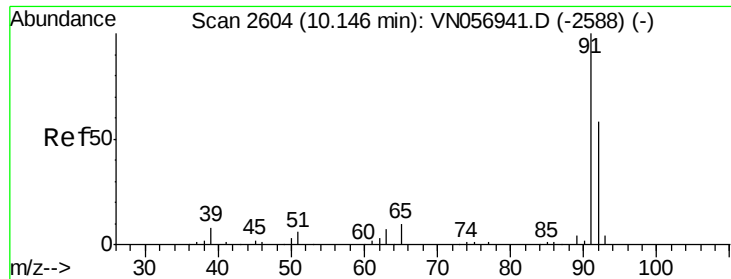
4000

2000

0

Time-->





#52

Toluene

Concen: 0.502 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

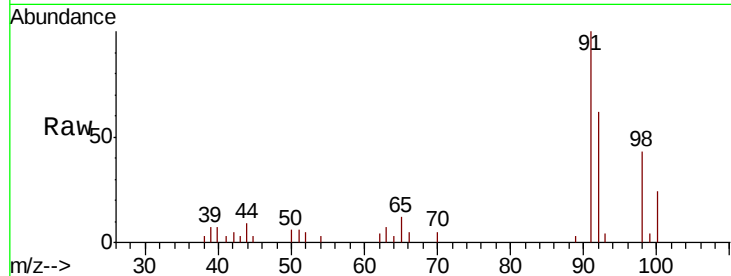
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 92 Resp: 6944

Ion Ratio Lower Upper

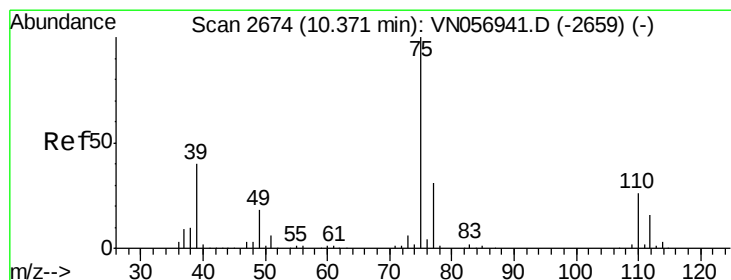
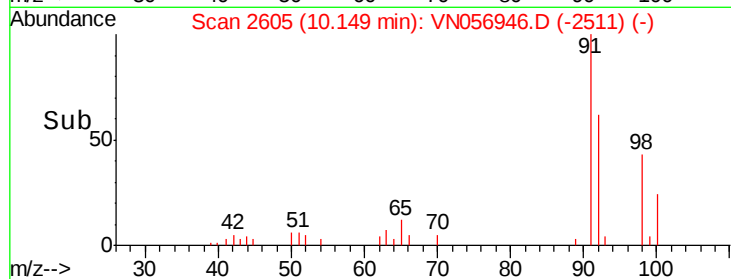
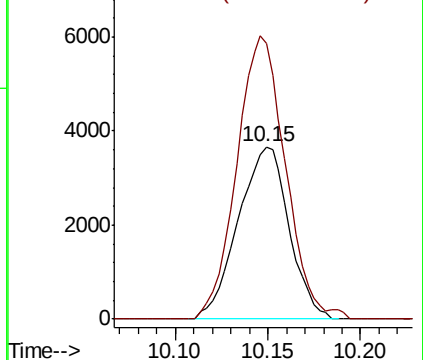
92 100

91 158.0 138.0 207.0



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#53

t-1,3-Dichloropropene

Concen: 0.391 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. 0.01 min

Lab File: VN056946.D

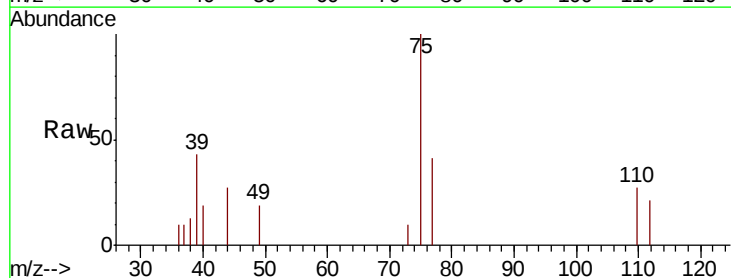
Acq: 26 Jul 2019 17:00

Tgt Ion: 75 Resp: 2965

Ion Ratio Lower Upper

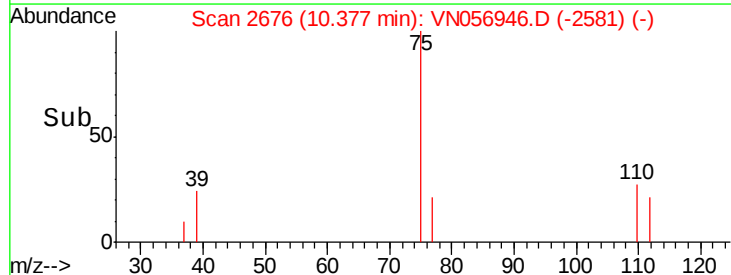
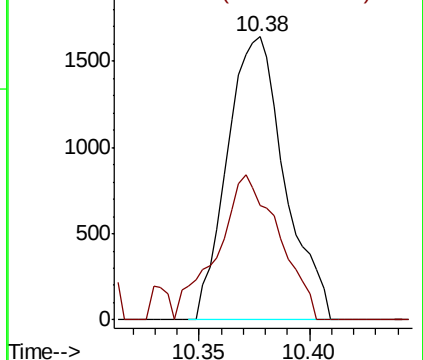
75 100

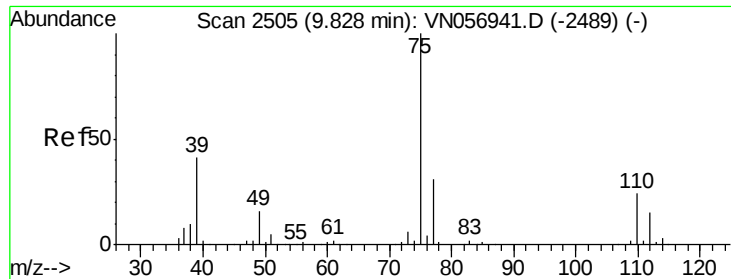
77 40.6 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



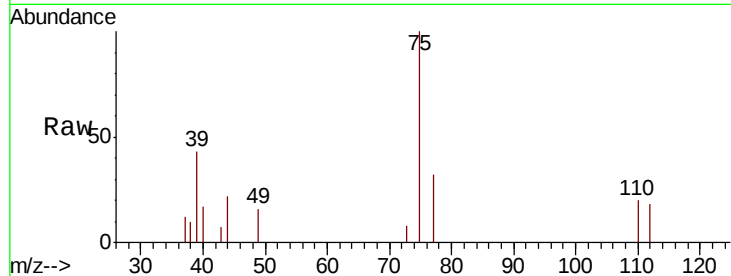


#54

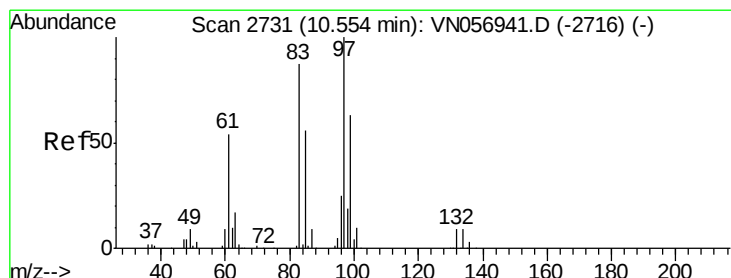
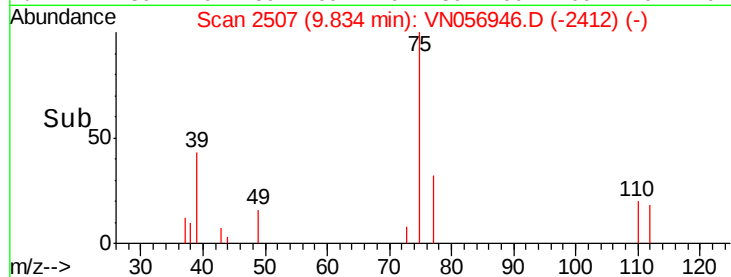
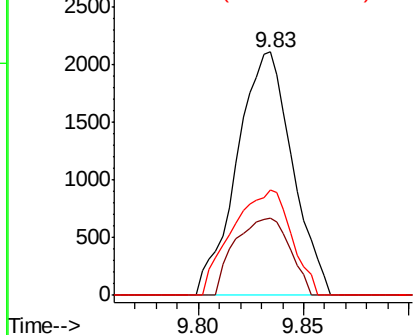
cis-1,3-Dichloropropene
Concen: 0.438 ug/l
RT: 9.83 min Scan# 2507
Delta R.T. 0.01 min
Lab File: VN056946.D
Acq: 26 Jul 2019 17:00

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 75 Resp: 3858
Ion Ratio Lower Upper
75 100
77 31.5 25.0 37.6
39 43.1 32.6 49.0



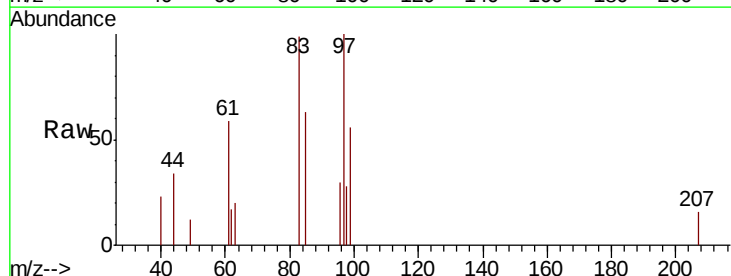
Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 76.90 (76.60 to 77.60): VNO
Ion 39.00 (38.70 to 39.70): VNO



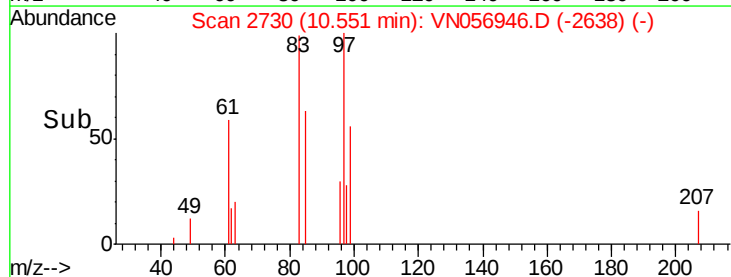
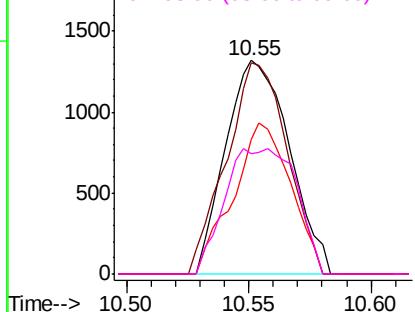
#55

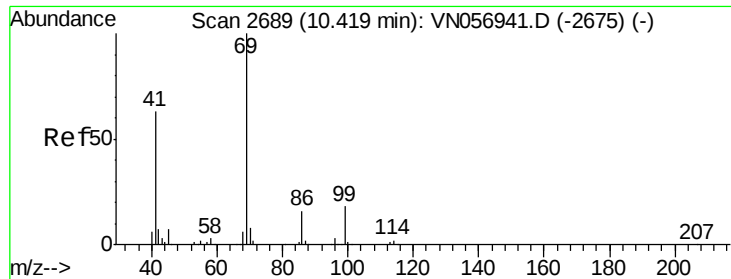
1,1,2-Trichloroethane
Concen: 0.431 ug/l
RT: 10.55 min Scan# 2730
Delta R.T. -0.00 min
Lab File: VN056946.D
Acq: 26 Jul 2019 17:00

Tgt Ion: 97 Resp: 2390
Ion Ratio Lower Upper
97 100
83 98.8 69.4 104.0
85 62.7 44.7 67.1
99 56.2 50.1 75.1



Abundance Ion 96.90 (96.60 to 97.60): VNO
Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 98.90 (98.60 to 99.60): VNO





#56

Ethyl methacrylate

Concen: 2.137 ug/l

RT: 10.42 min Scan# 2690

Delta R.T. 0.00 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

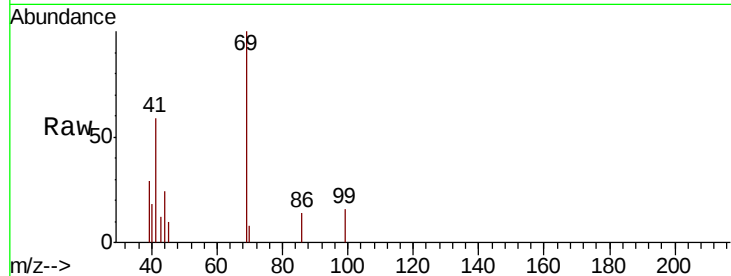
Tot Ion: 69 Resp: 3269

Ion Ratio Lower Upper

69 100

41 59.8 49.2 73.8

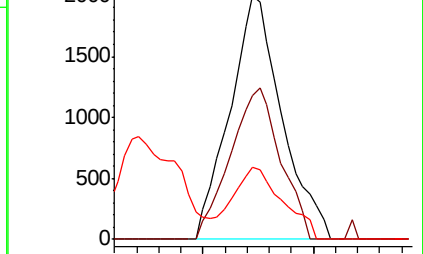
39 28.8 23.1 34.7



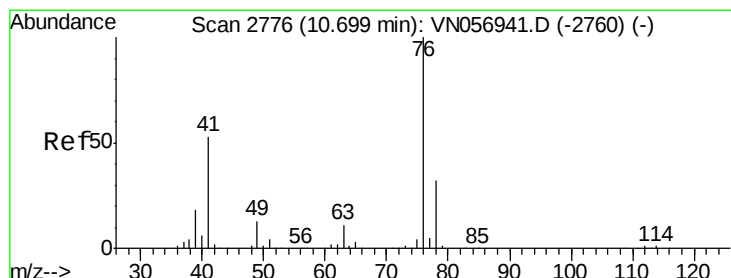
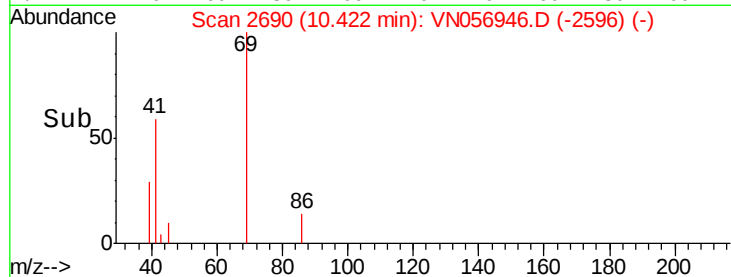
Abundance Ion 69.00 (68.70 to 69.70): VN056946.D (-2675) (-)

Ion 41.00 (40.70 to 41.70): VN056946.D (-2675) (-)

Ion 39.00 (38.70 to 39.70): VN056946.D (-2675) (-)



Time-->



#57

1,3-Dichloropropane

Concen: 0.444 ug/l

RT: 10.70 min Scan# 2777

Delta R.T. 0.00 min

Lab File: VN056946.D

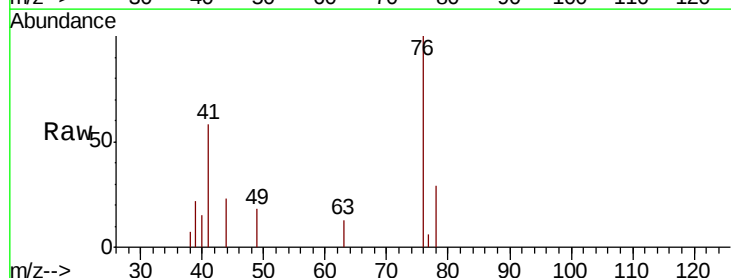
Acq: 26 Jul 2019 17:00

Tgt Ion: 76 Resp: 4088

Ion Ratio Lower Upper

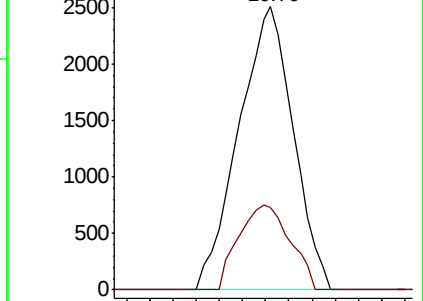
76 100

78 28.4 25.9 38.9

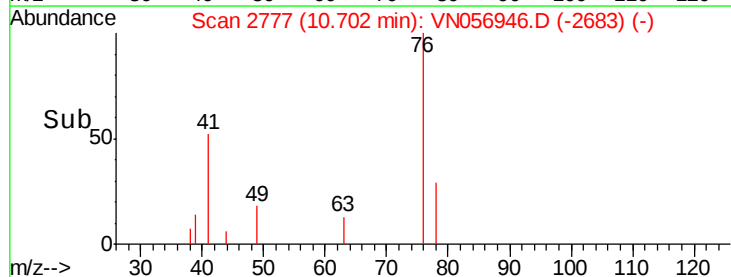


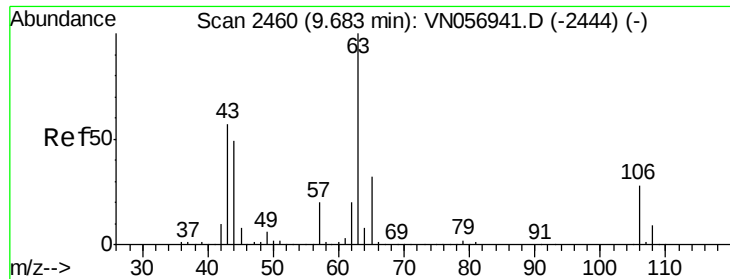
Abundance Ion 75.90 (75.60 to 76.60): VN056946.D (-2683) (-)

Ion 77.90 (77.60 to 78.60): VN056946.D (-2683) (-)



Time-->

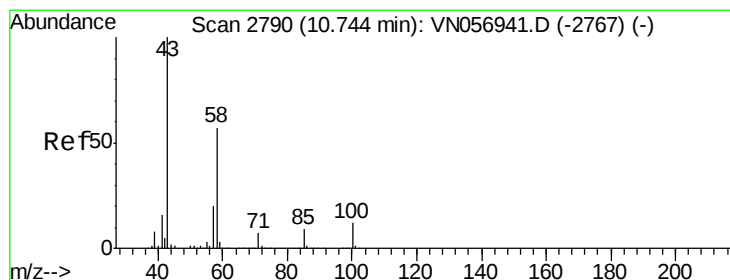
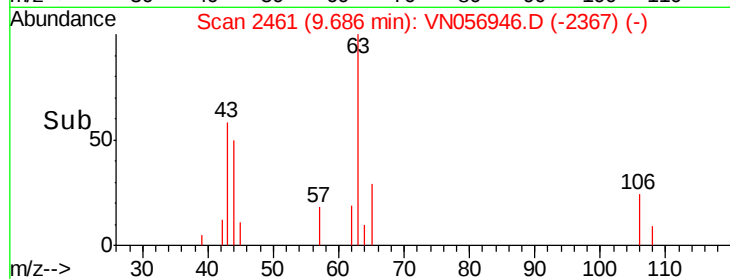
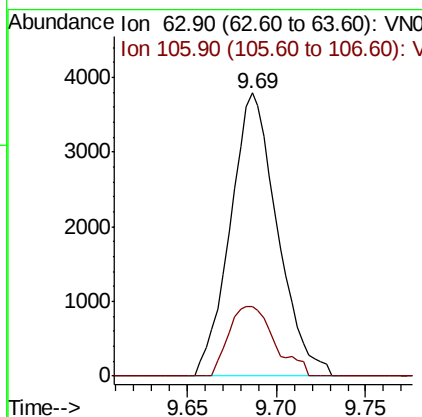
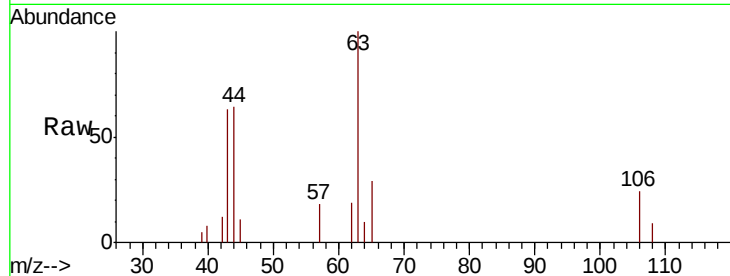




#58
2-Chloroethyl Vinyl ether
Concen: 2.091 ug/l
RT: 9.69 min Scan# 2461
Delta R.T. 0.00 min
Lab File: VN056946.D
Acq: 26 Jul 2019 17:00

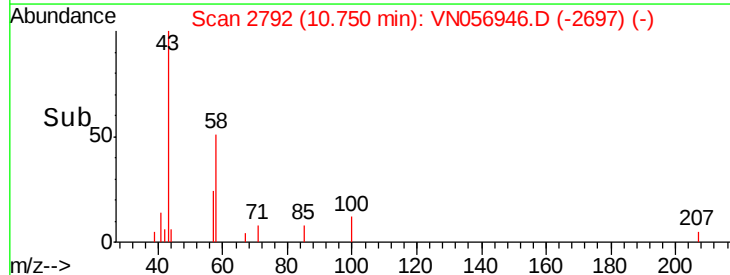
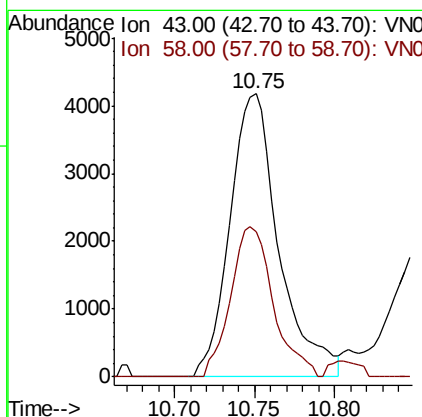
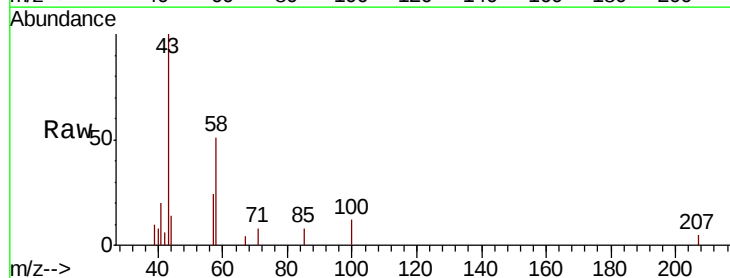
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

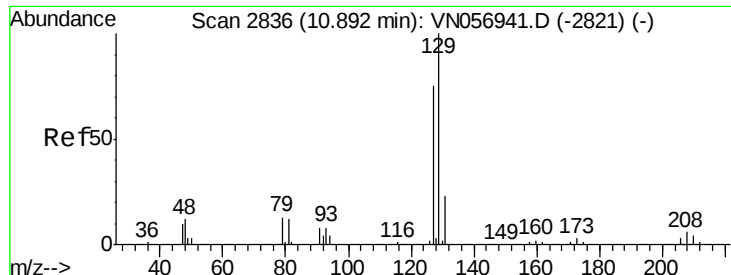
Tot Ion: 63 Resp: 6950
Ion Ratio Lower Upper
63 100
106 23.8 22.0 33.0



#59
2-Hexanone
Concen: 4.409 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.01 min
Lab File: VN056946.D
Acq: 26 Jul 2019 17:00

Tgt Ion: 43 Resp: 8729
Ion Ratio Lower Upper
43 100
58 46.1 28.5 85.5





#60

Dibromochloromethane

Concen: 0.348 ug/l

RT: 10.89 min Scan# 2836

Delta R.T. -0.00 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

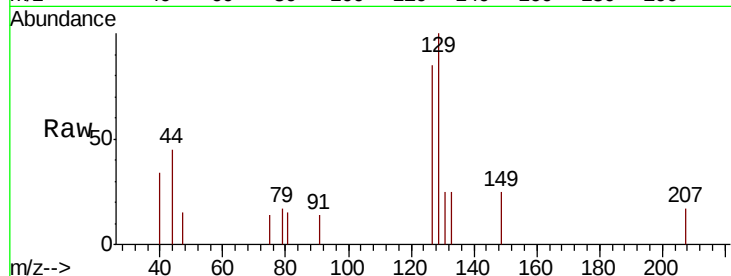
MDL-MDL-WATER-03-QT3-2019

Tot Ion:129 Resp: 1977

Ion Ratio Lower Upper

129 100

127 84.2 38.0 113.9



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

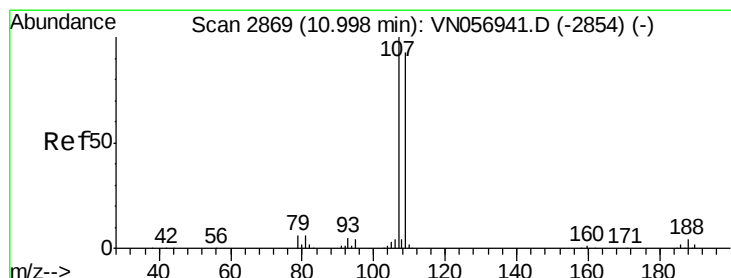
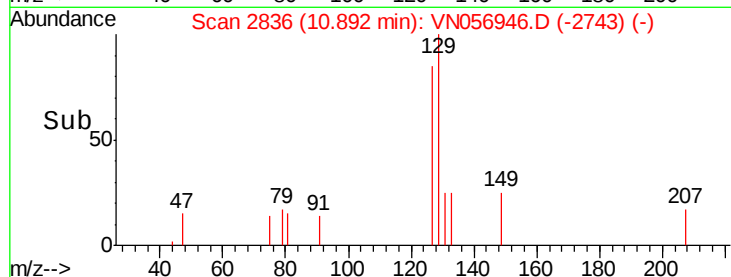
10.89

1000

500

0

Time-->



#61

1,2-Dibromoethane

Concen: 0.464 ug/l

RT: 11.00 min Scan# 2869

Delta R.T. 0.00 min

Lab File: VN056946.D

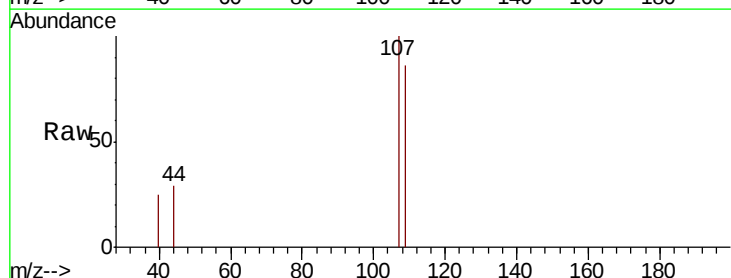
Acq: 26 Jul 2019 17:00

Tgt Ion:107 Resp: 2512

Ion Ratio Lower Upper

107 100

109 96.3 76.0 114.0



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.00

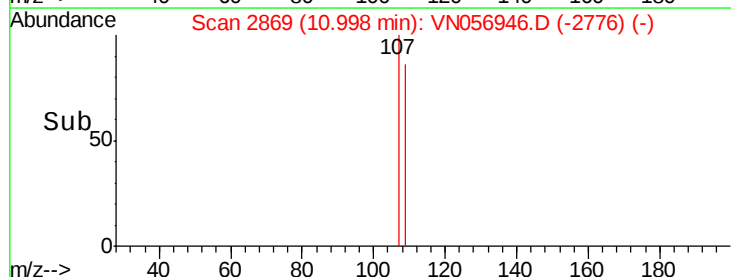
1500

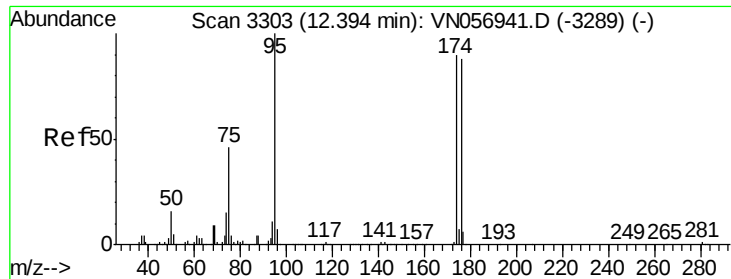
1000

500

0

Time-->

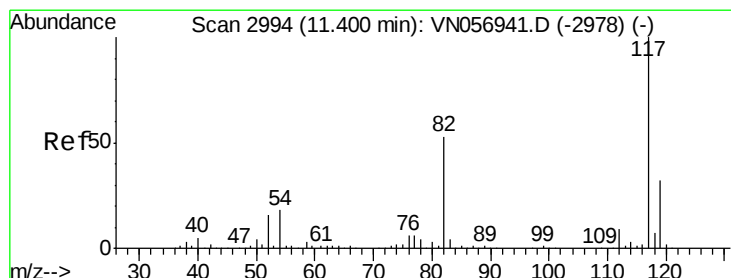
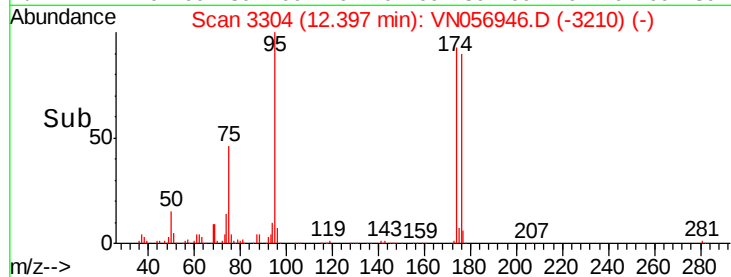
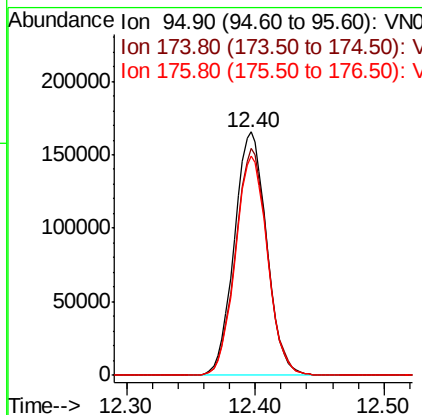
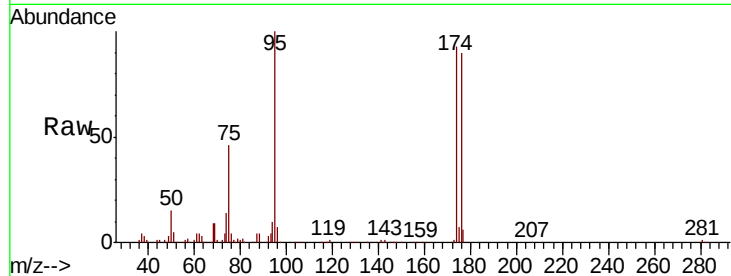




#62
4-Bromofluorobenzene
Concen: 42.725 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN056946.D
Acq: 26 Jul 2019 17:00

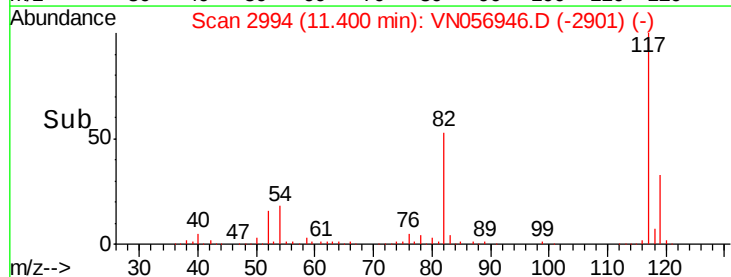
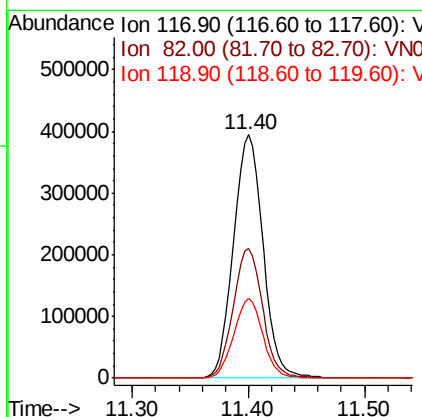
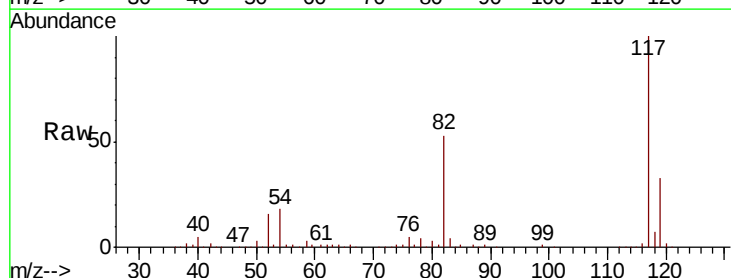
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

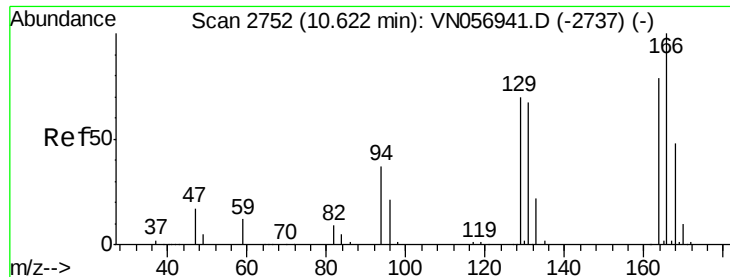
Tot Ion: 95 Resp: 288418
Ion Ratio Lower Upper
95 100
174 92.1 0.0 182.2
176 89.5 0.0 179.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN056946.D
Acq: 26 Jul 2019 17:00

Tgt Ion: 117 Resp: 695032
Ion Ratio Lower Upper
117 100
82 53.2 42.2 63.4
119 32.5 25.8 38.6





#64

Tetrachloroethene

Concen: 0.541 ug/l

RT: 10.62 min Scan# 2752

Delta R.T. -0.00 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion:164 Resp: 3239

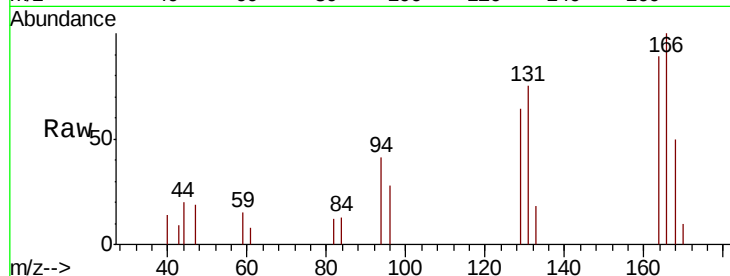
Ion Ratio Lower Upper

164 100

166 112.8 101.1 151.7

129 72.0 70.9 106.3

131 84.8 67.7 101.5

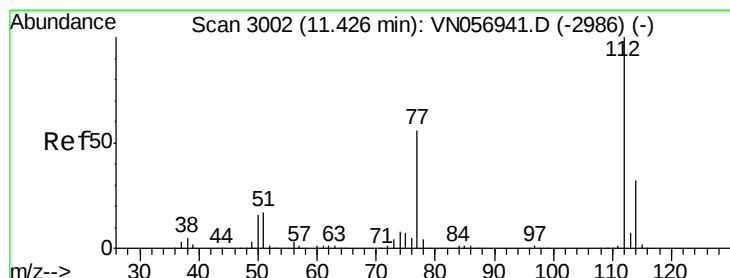
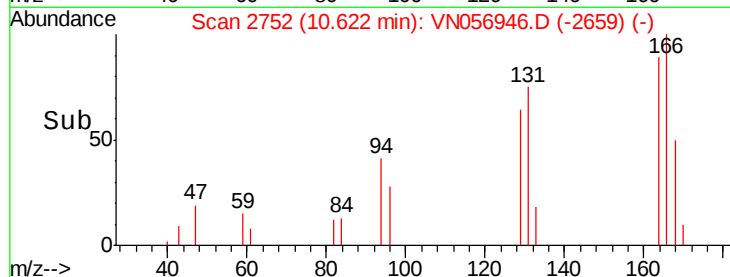
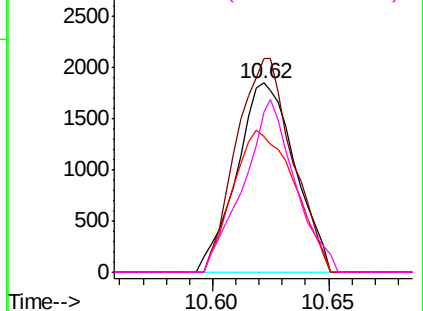


Abundance Ion 163.80 (163.50 to 164.50): V

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: 0.504 ug/l

RT: 11.43 min Scan# 3002

Delta R.T. -0.00 min

Lab File: VN056946.D

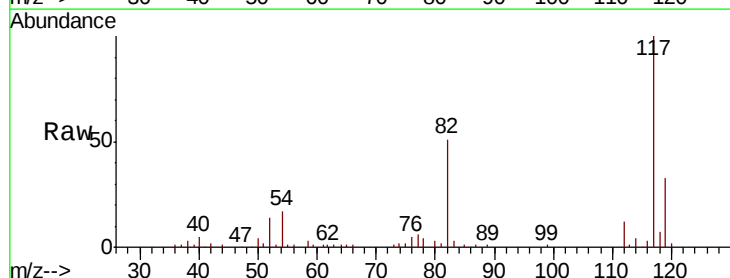
Acq: 26 Jul 2019 17:00

Tgt Ion:112 Resp: 7146

Ion Ratio Lower Upper

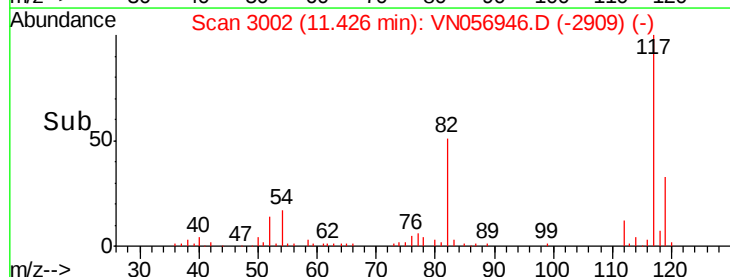
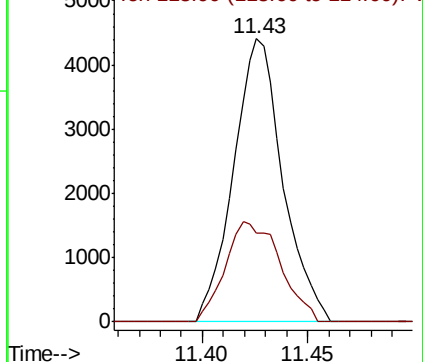
112 100

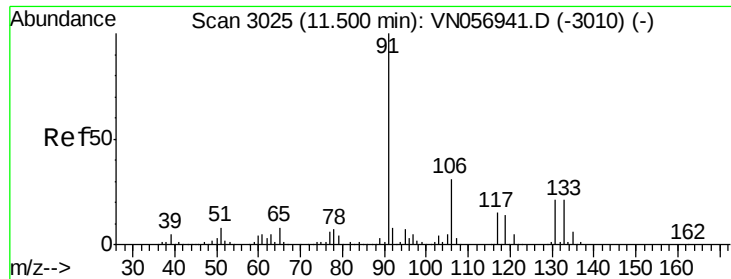
114 31.3 26.0 39.0



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V





#66

1,1,1,2-Tetrachloroethane

Concen: 0.456 ug/l

RT: 11.50 min Scan# 3025

Delta R.T. -0.00 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

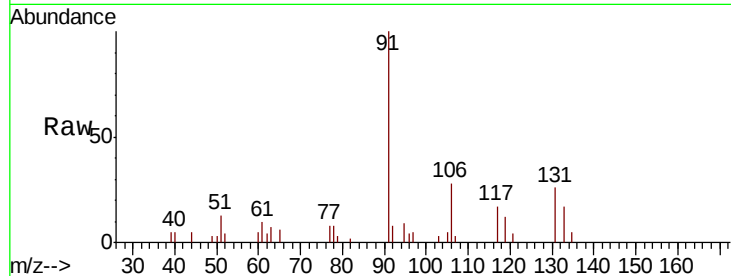
Tot Ion:131 Resp: 2430

Ion Ratio Lower Upper

131 100

133 91.3 48.0 144.0

119 0.0 33.2 99.6#



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

11.50

1500

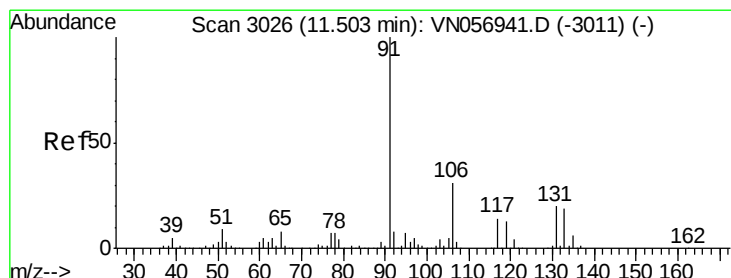
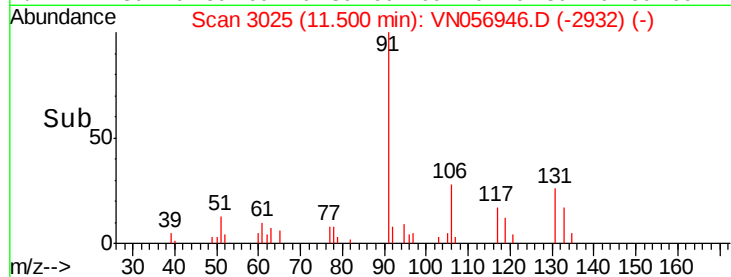
1000

500

0

11.45 11.50 11.55

Time-->



#67

Ethyl Benzene

Concen: 0.480 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN056946.D

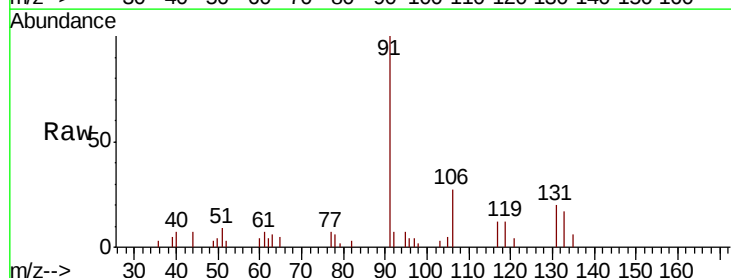
Acq: 26 Jul 2019 17:00

Tgt Ion: 91 Resp: 11762

Ion Ratio Lower Upper

91 100

106 27.2 25.1 37.7



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V

8000

6000

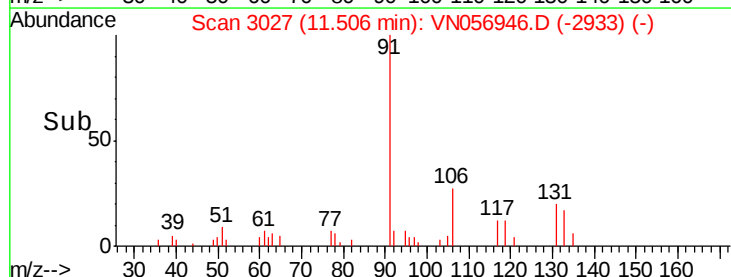
4000

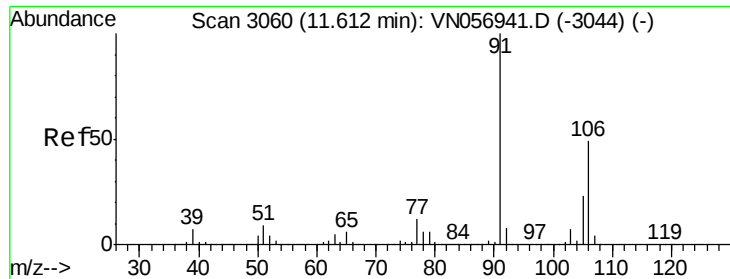
2000

0

11.45 11.50 11.55

Time-->

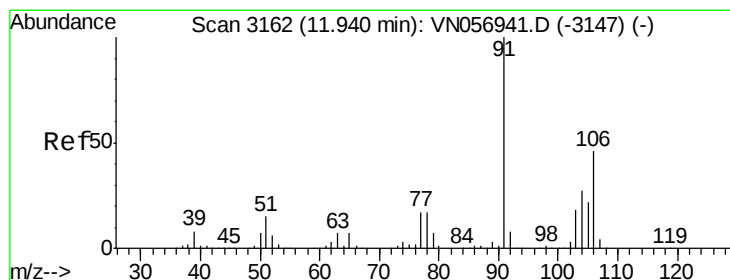
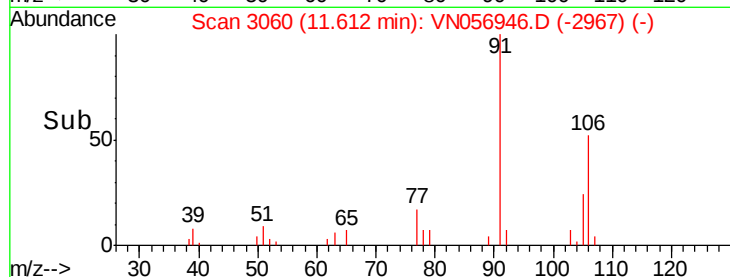
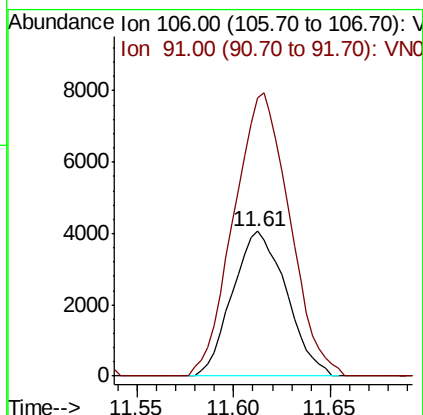
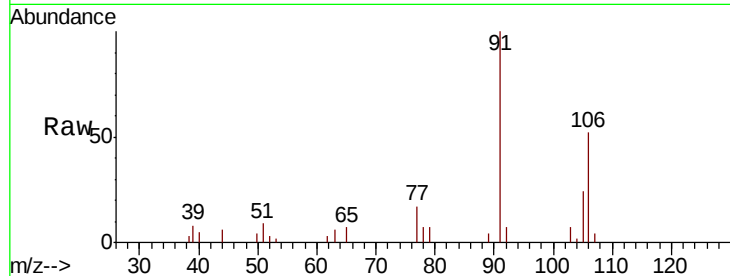




#68
m/p-Xylenes
Concen: 0.872 ug/l
RT: 11.61 min Scan# 3060
Delta R.T. -0.00 min
Lab File: VN056946.D
Acq: 26 Jul 2019 17:00

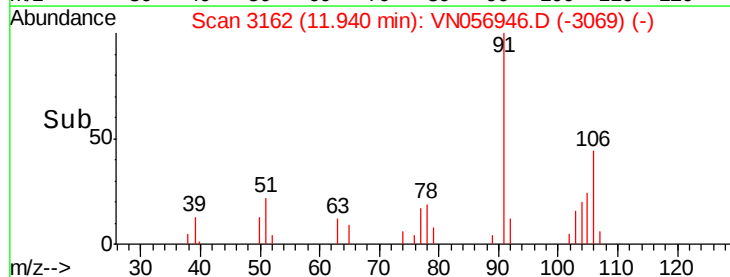
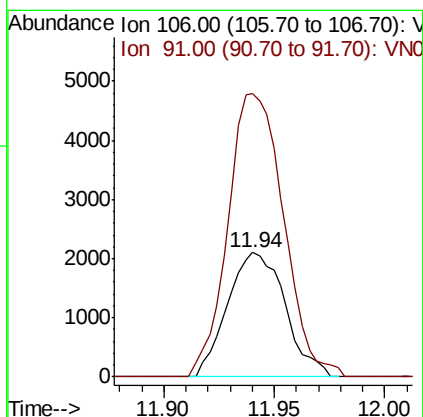
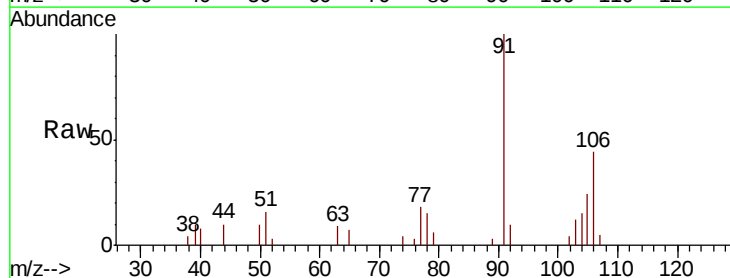
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

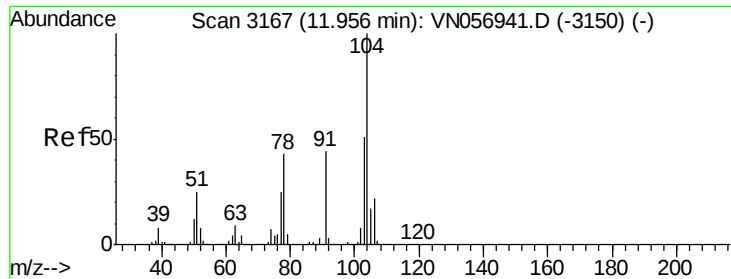
Tot Ion:106 Resp: 7875
Ion Ratio Lower Upper
106 100
91 202.5 160.0 240.0



#69
o-Xylene
Concen: 0.432 ug/l
RT: 11.94 min Scan# 3162
Delta R.T. 0.00 min
Lab File: VN056946.D
Acq: 26 Jul 2019 17:00

Tgt Ion:106 Resp: 3815
Ion Ratio Lower Upper
106 100
91 220.1 106.2 318.6

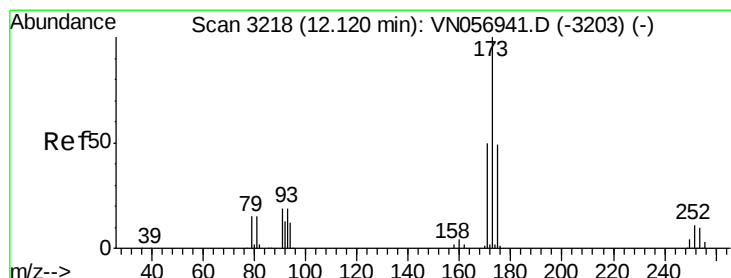
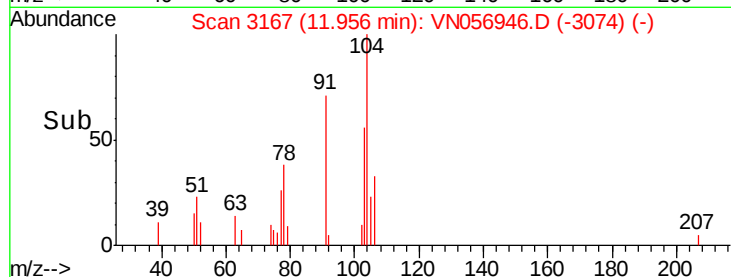
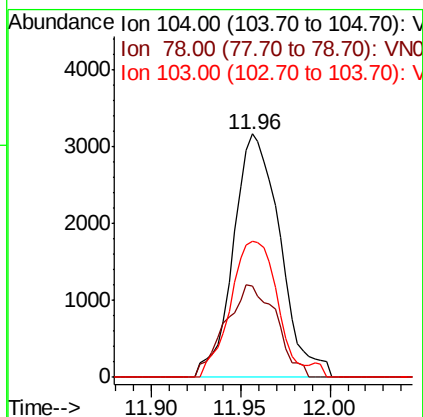
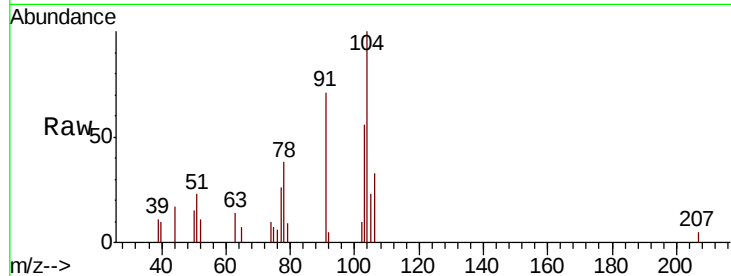




#70
Stvrene
Concen: 2.222 ug/l
RT: 11.96 min Scan# 3167
Delta R.T. 0.00 min
Lab File: VN056946.D
Acq: 26 Jul 2019 17:00

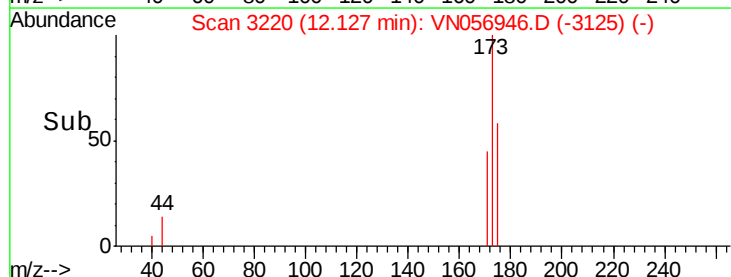
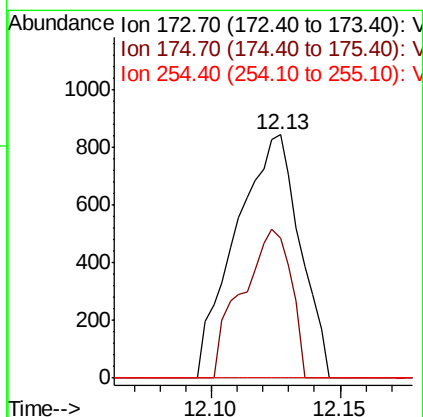
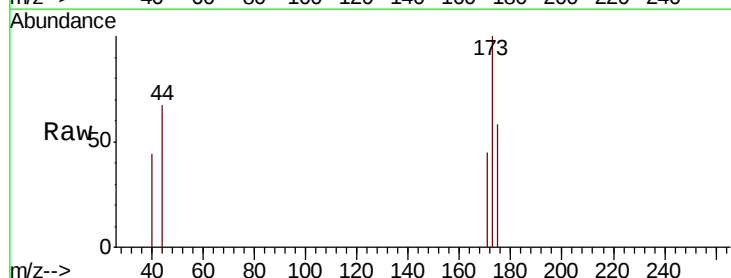
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

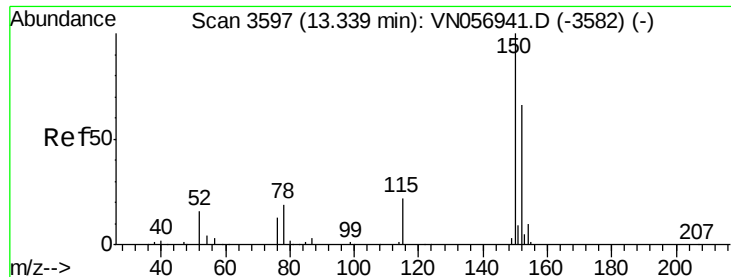
Tot Ion:104 Resp: 5763
Ion Ratio Lower Upper
104 100
78 41.5 38.1 57.1
103 57.5 44.3 66.5



#71
Bromoform
Concen: 0.393 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.01 min
Lab File: VN056946.D
Acq: 26 Jul 2019 17:00

Tgt Ion:173 Resp: 1463
Ion Ratio Lower Upper
173 100
175 47.0 24.1 72.4
254 0.0 0.1 0.1#



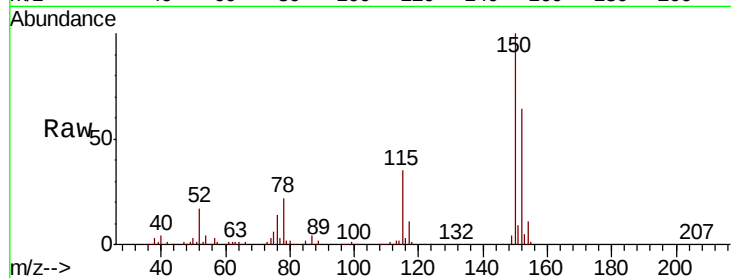


#72

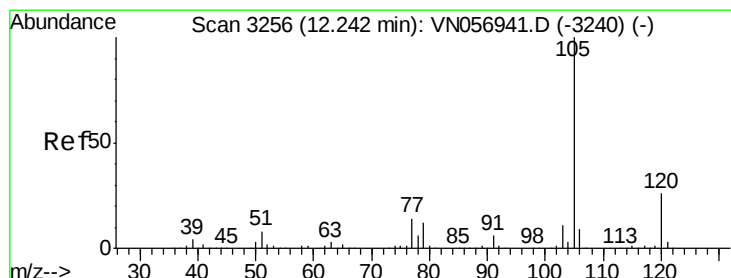
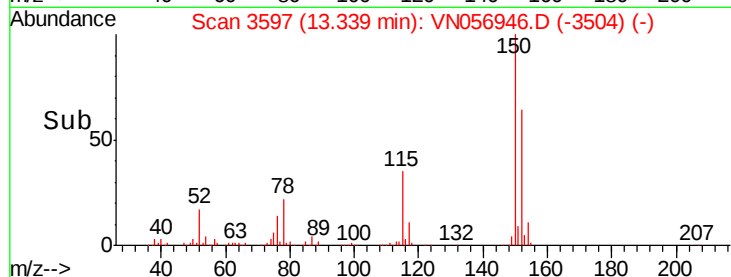
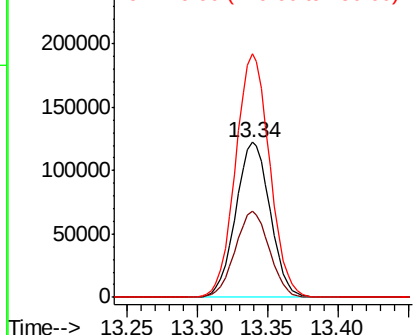
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. -0.00 min
Lab File: VN056946.D
Acq: 26 Jul 2019 17:00

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion:152 Resp: 209080
Ion Ratio Lower Upper
152 100
115 55.5 28.2 84.6
150 155.6 0.0 349.4



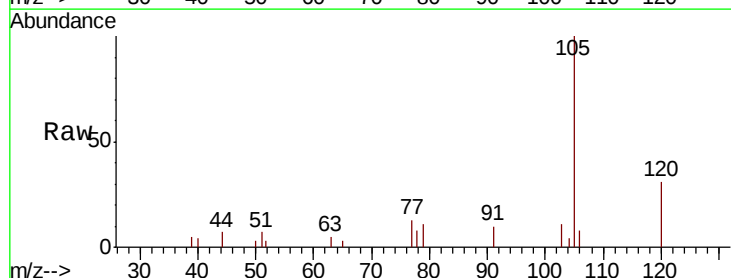
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



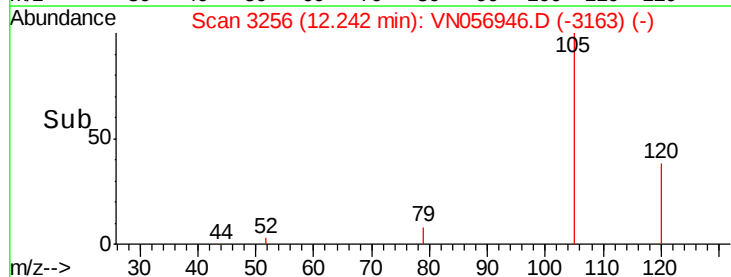
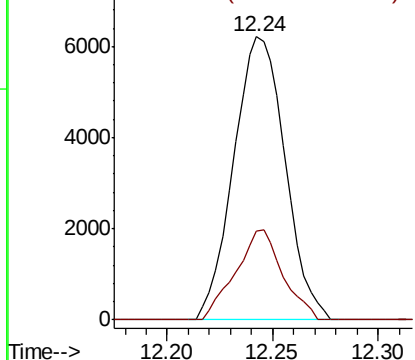
#73

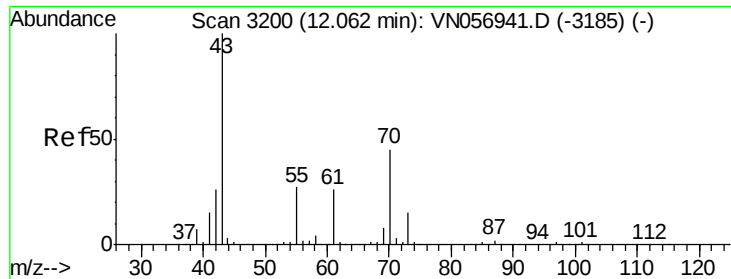
Isopropylbenzene
Concen: 0.582 ug/l
RT: 12.24 min Scan# 3256
Delta R.T. -0.00 min
Lab File: VN056946.D
Acq: 26 Jul 2019 17:00

Tgt Ion:105 Resp: 10509
Ion Ratio Lower Upper
105 100
120 29.1 13.5 40.5



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





#74

N-amvl acetate

Concen: 0.503 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.01 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

Instrument :

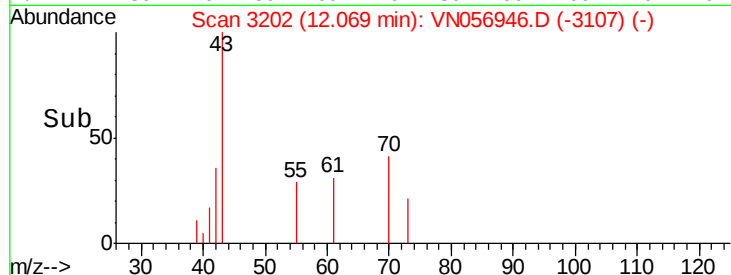
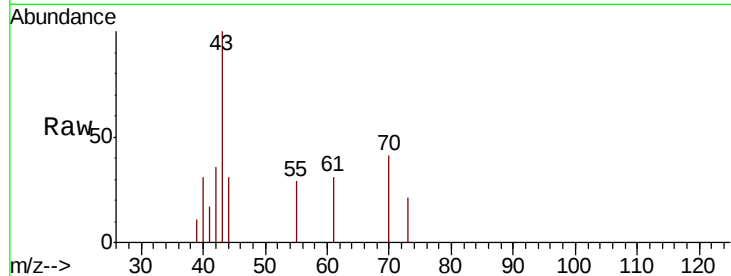
MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion: 43 Resp: 2640

Ion	Ratio	Lower	Upper
43	100		
70	42.5	36.5	54.7
55	23.3	21.4	32.0
61	24.3	20.5	30.7

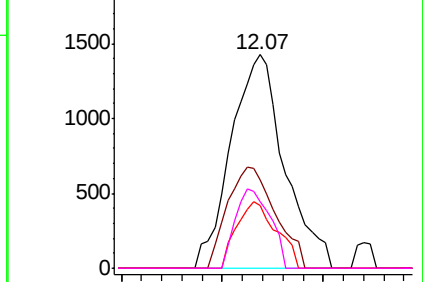


Abundance Ion 43.00 (42.70 to 43.70): VN0

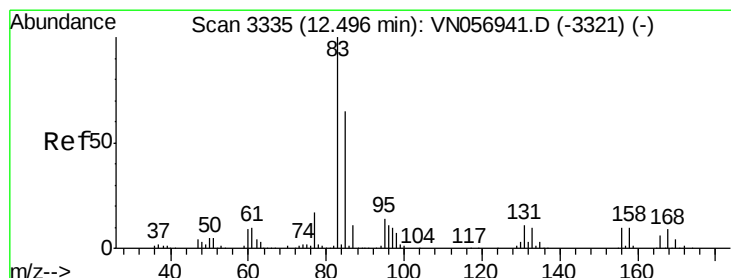
Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



Time--> 12.00 12.05 12.10



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3335

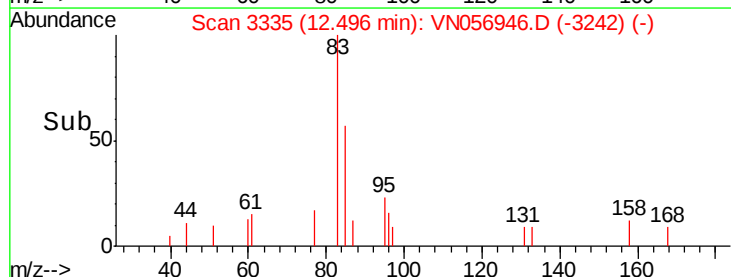
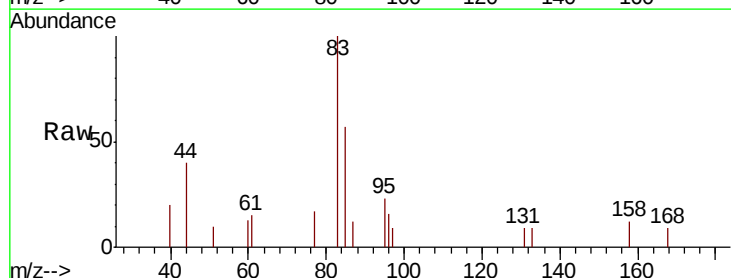
Delta R.T. 0.00 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

Tgt Ion: 83 Resp: 2963

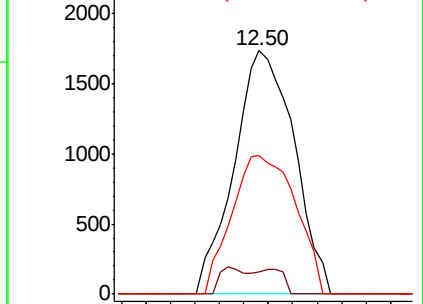
Ion	Ratio	Lower	Upper
83	100		
131	5.4	5.3	16.1
85	60.9	32.5	97.4



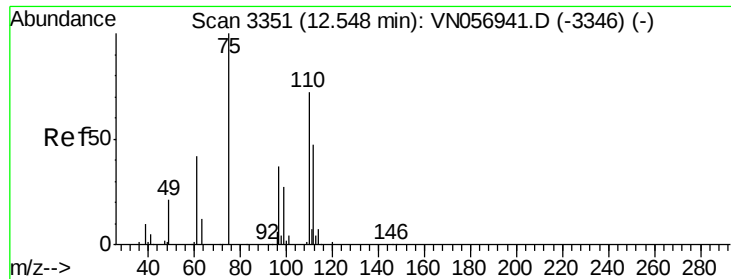
Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0



Time--> 12.45 12.50



#76

1,2,3-Trichloropropane

Concen: 30.812 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

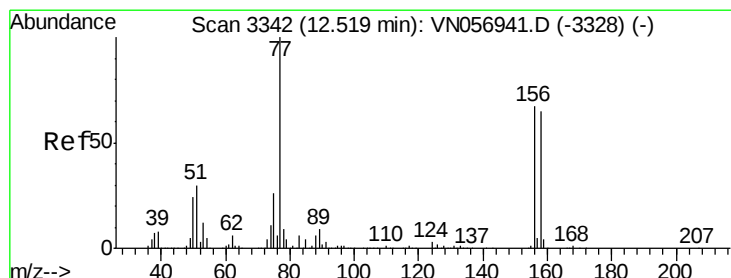
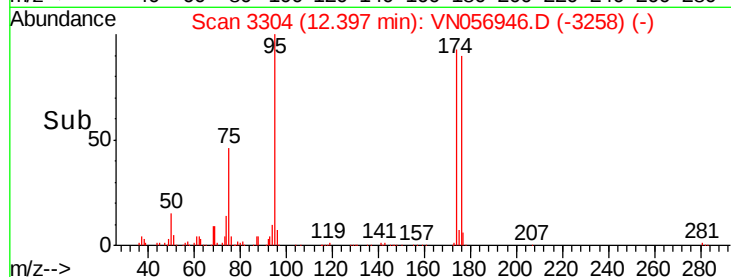
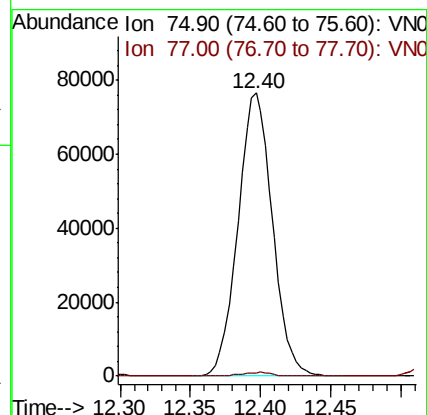
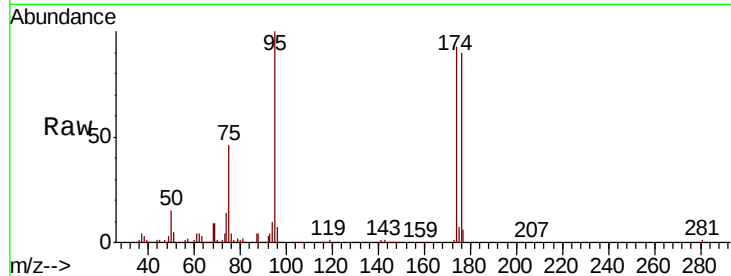
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 75 Resp: 130831

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#77

Bromobenzene

Concen: 0.588 ug/l

RT: 12.52 min Scan# 3341

Delta R.T. -0.00 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

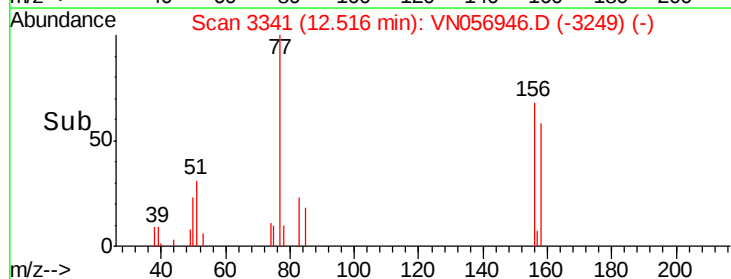
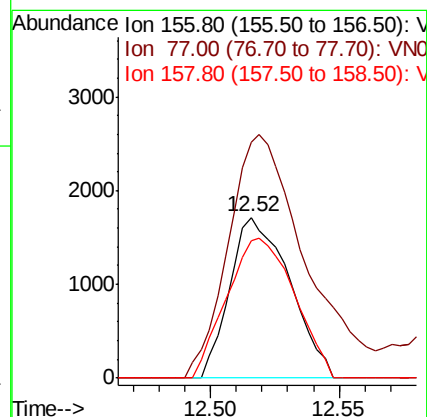
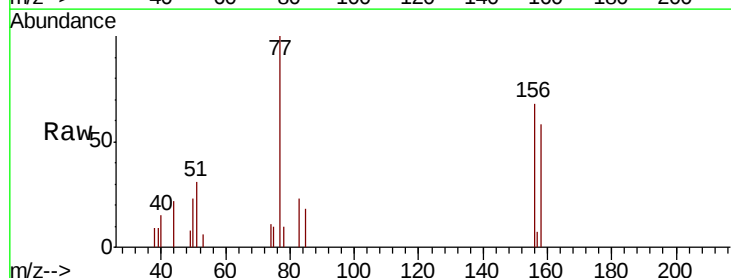
Tgt Ion: 156 Resp: 2771

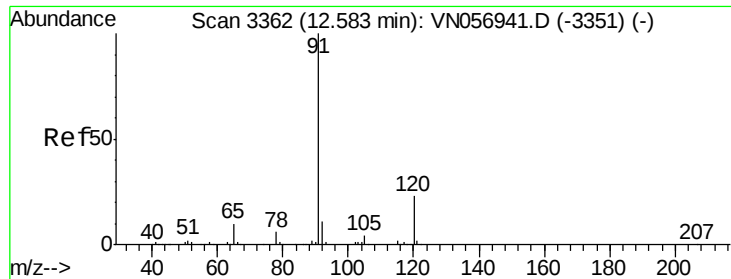
Ion Ratio Lower Upper

156 100

77 194.5 89.5 268.5

158 98.1 48.4 145.3





#78

n-propylbenzene

Concen: 0.585 ug/l

RT: 12.59 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

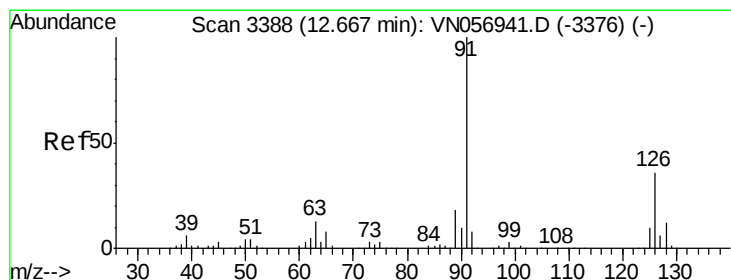
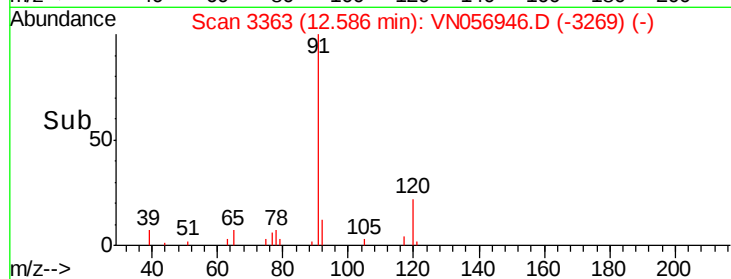
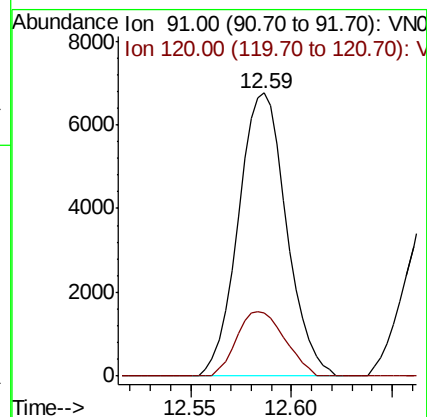
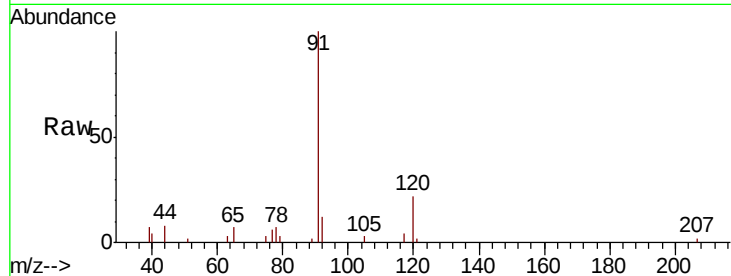
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 91 Resp: 11281

Ion Ratio Lower Upper

91 100

120 22.8 11.8 35.4



#79

2-Chlorotoluene

Concen: 0.580 ug/l

RT: 12.67 min Scan# 3388

Delta R.T. -0.00 min

Lab File: VN056946.D

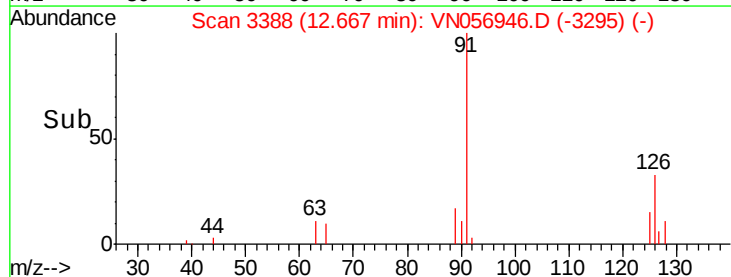
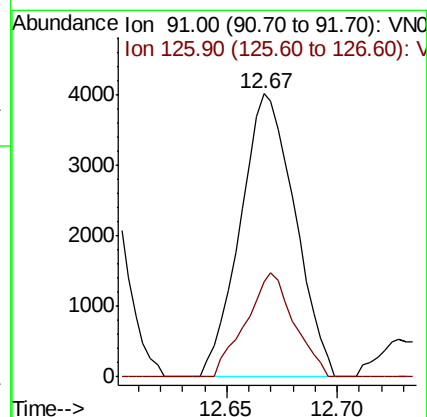
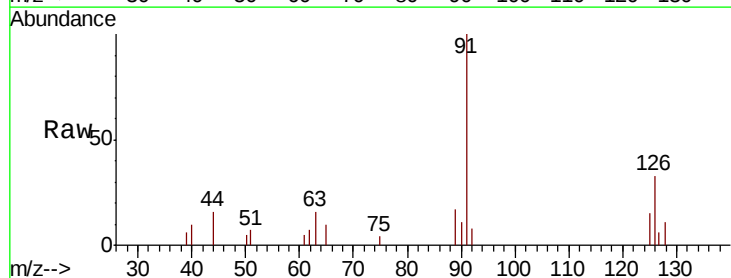
Acq: 26 Jul 2019 17:00

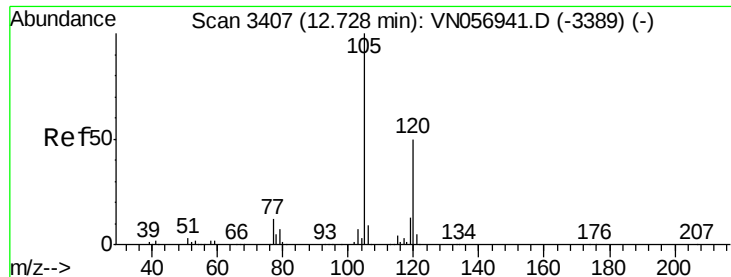
Tgt Ion: 91 Resp: 6895

Ion Ratio Lower Upper

91 100

126 32.4 17.9 53.7





#80

1,3,5-Trimethylbenzene

Concen: 0.586 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

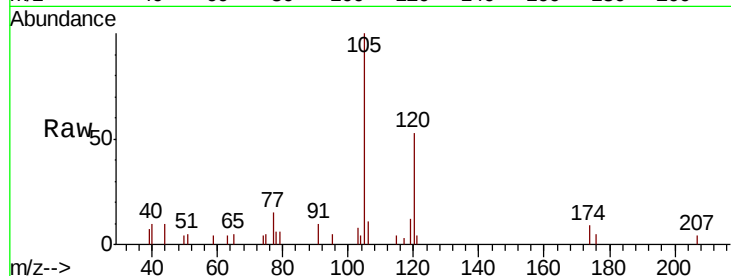
MDL-MDL-WATER-03-QT3-2019

Tot Ion:105 Resp: 8692

Ion Ratio Lower Upper

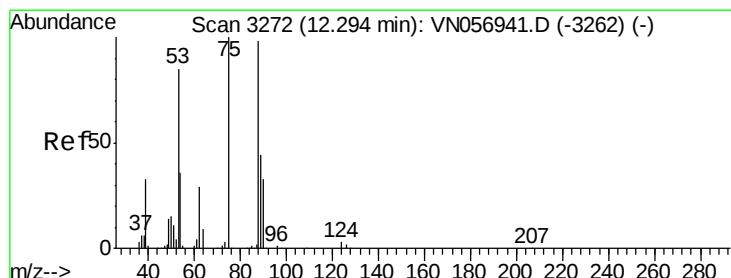
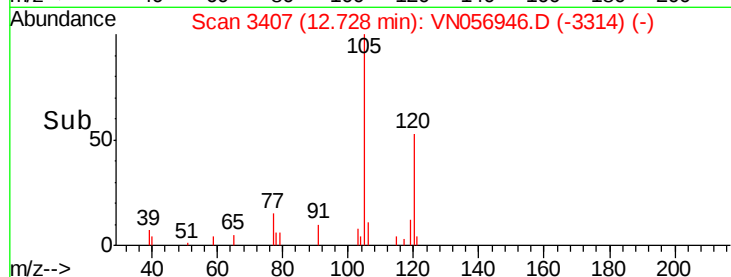
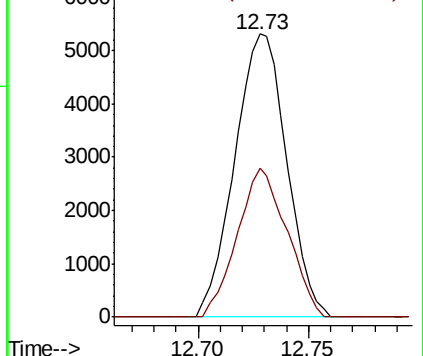
105 100

120 50.3 24.8 74.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 98.999 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

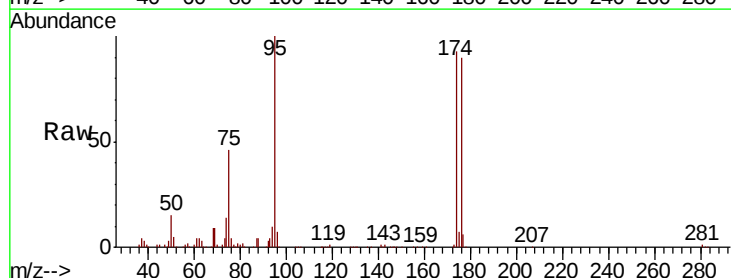
Tgt Ion: 75 Resp: 130831

Ion Ratio Lower Upper

75 100

53 0.0 69.3 103.9#

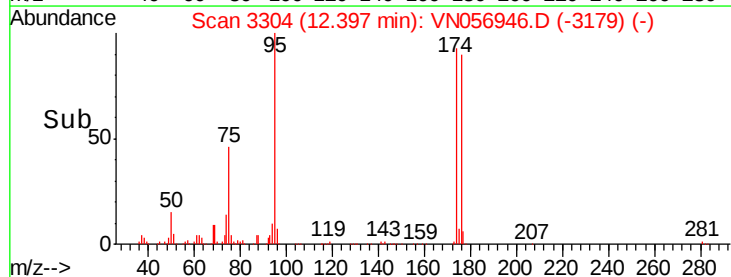
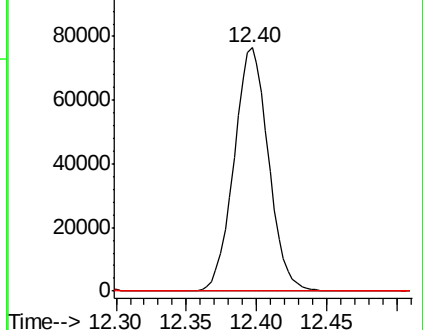
89 0.0 35.8 53.6#

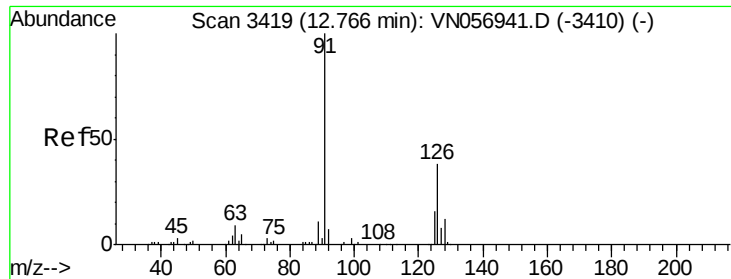


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#82

4-Chlorotoluene

Concen: 0.602 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.01 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

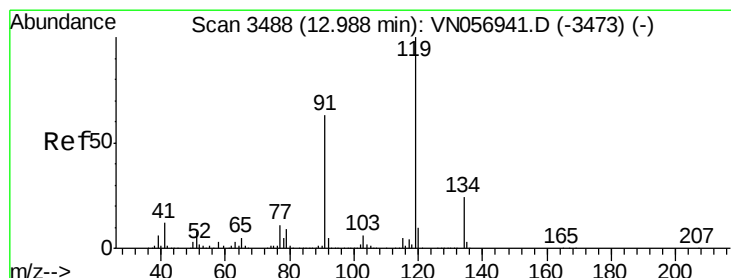
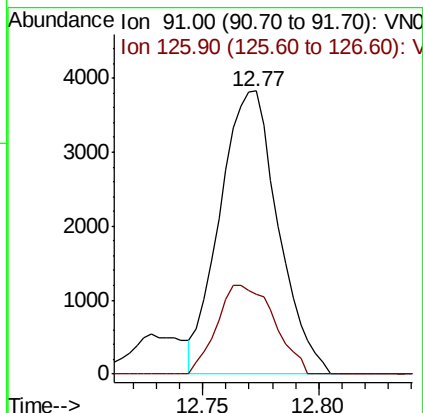
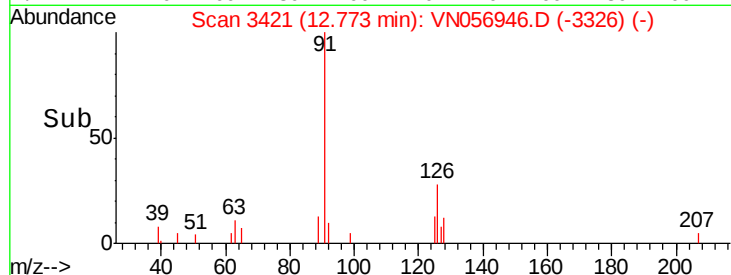
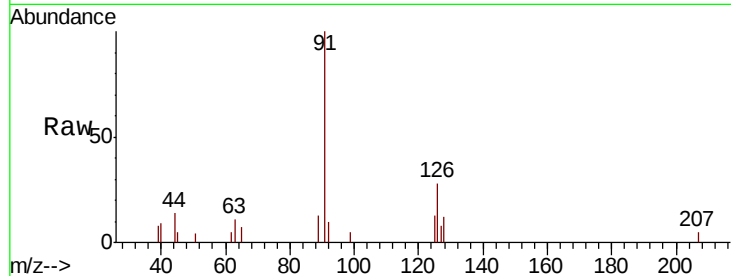
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 91 Resp: 6689

Ion Ratio Lower Upper

91 100

126 30.9 17.5 52.5



#83

tert-Butylbenzene

Concen: 0.604 ug/l

RT: 12.99 min Scan# 3488

Delta R.T. -0.00 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

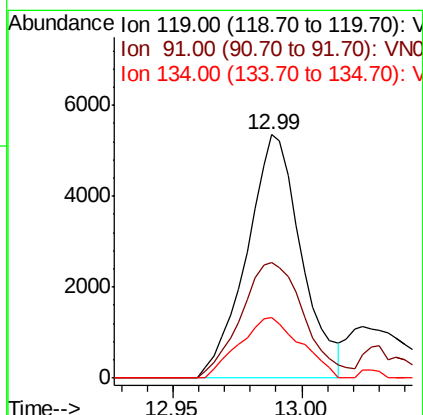
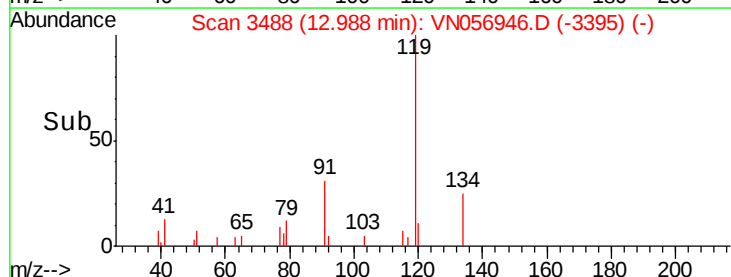
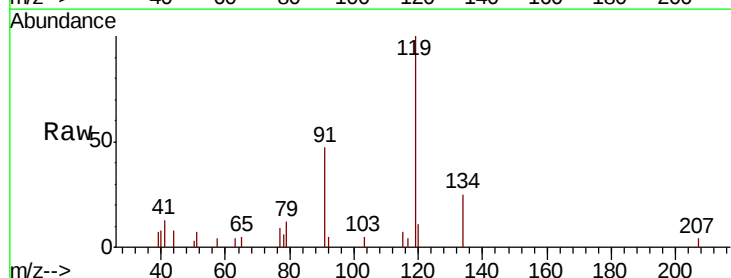
Tgt Ion: 119 Resp: 7928

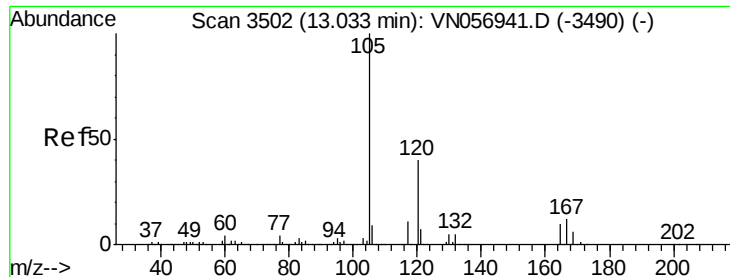
Ion Ratio Lower Upper

119 100

91 55.2 31.3 93.8

134 27.8 13.3 39.8

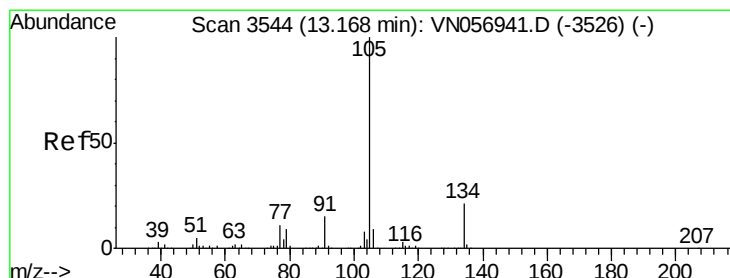
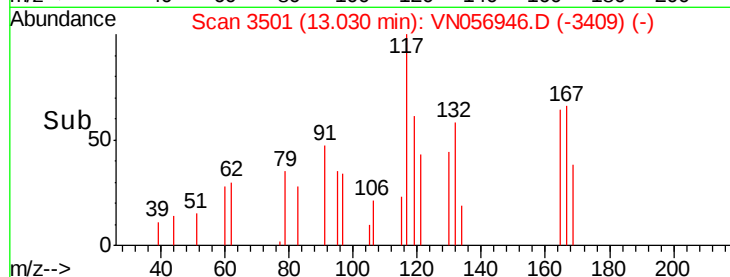
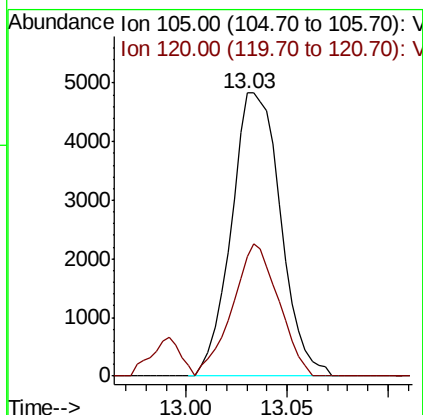
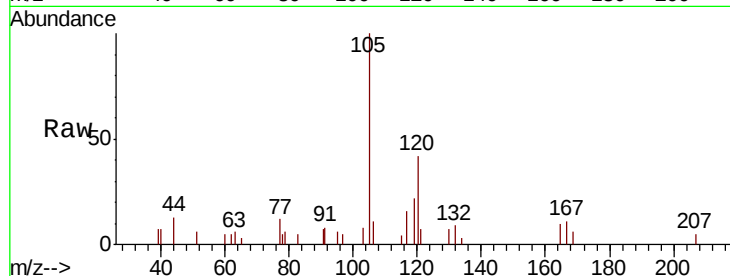




#84
1,2,4-Trimethylbenzene
Concen: 0.581 ug/l
RT: 13.03 min Scan# 3501
Delta R.T. -0.00 min
Lab File: VN056946.D
Acq: 26 Jul 2019 17:00

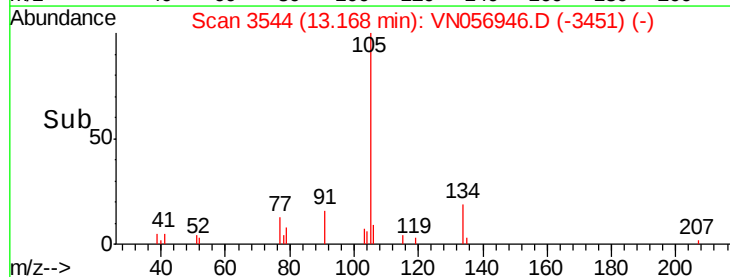
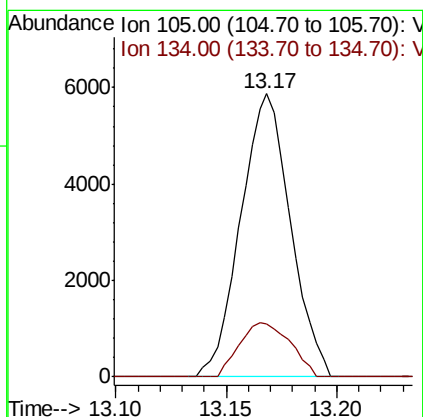
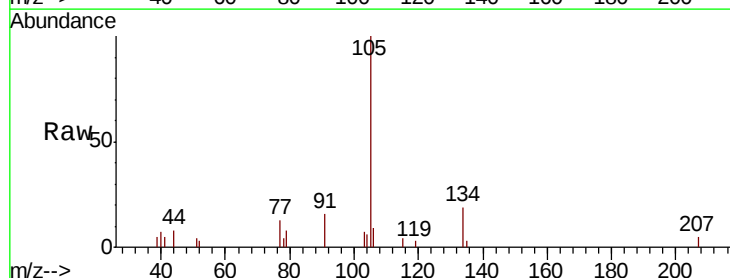
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

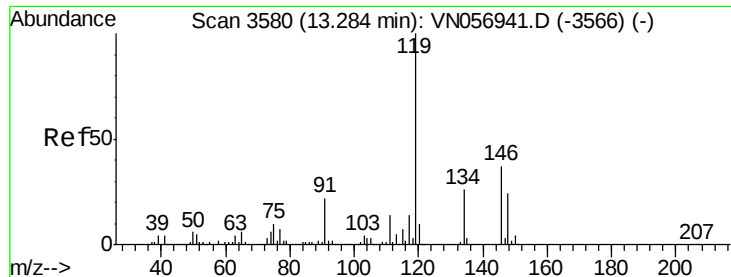
Tot Ion:105 Resp: 8284
Ion Ratio Lower Upper
105 100
120 43.6 23.2 69.6



#85
sec-Butylbenzene
Concen: 0.544 ug/l
RT: 13.17 min Scan# 3544
Delta R.T. -0.00 min
Lab File: VN056946.D
Acq: 26 Jul 2019 17:00

Tgt Ion:105 Resp: 9207
Ion Ratio Lower Upper
105 100
134 19.5 10.3 30.8

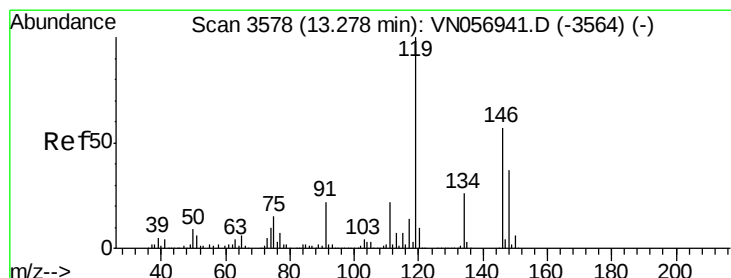
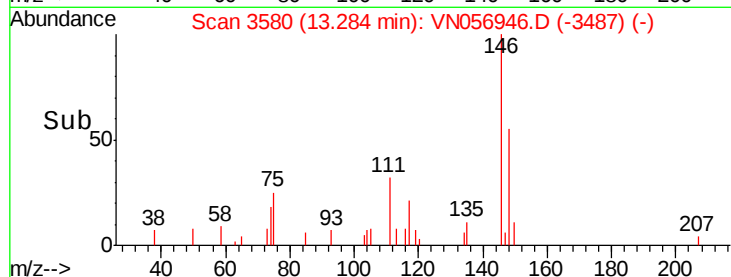
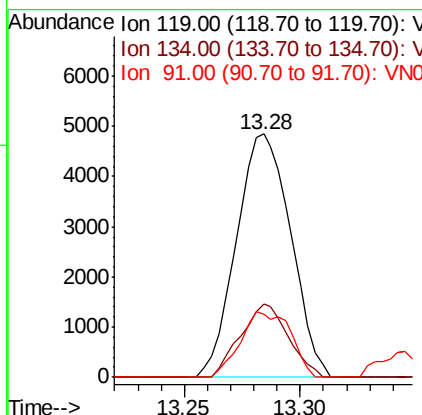
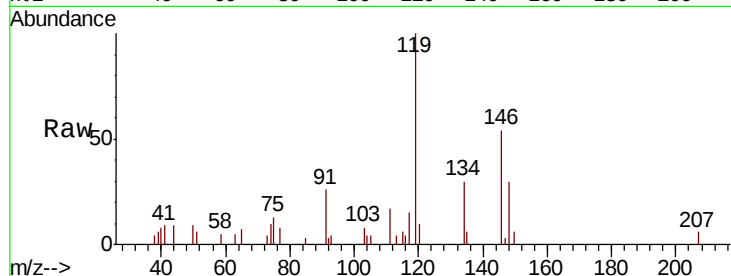




#86
 p-Isopropyltoluene
 Concen: 0.524 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.00 min
 Lab File: VN056946.D
 Acq: 26 Jul 2019 17:00

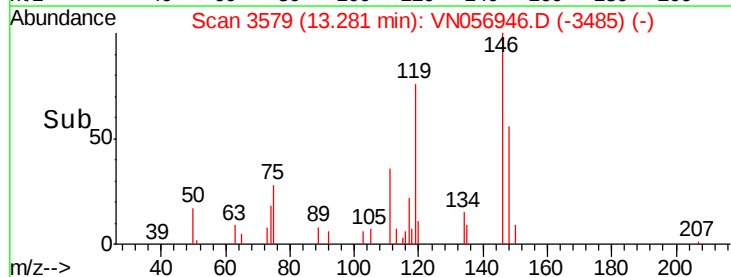
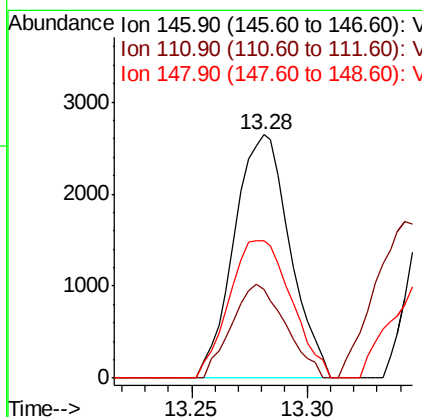
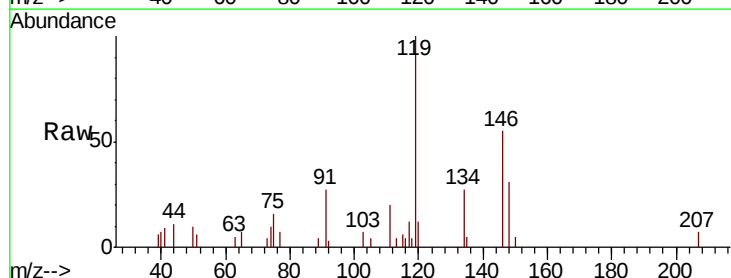
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

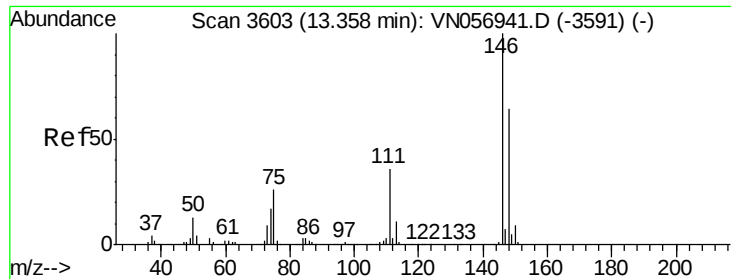
Tot Ion:119 Resp: 7879
 Ion Ratio Lower Upper
 119 100
 134 26.6 13.4 40.1
 91 24.8 11.0 33.0



#87
 1,3-Dichlorobenzene
 Concen: 0.615 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN056946.D
 Acq: 26 Jul 2019 17:00

Tgt Ion:146 Resp: 4409
 Ion Ratio Lower Upper
 146 100
 111 37.5 18.6 55.8
 148 63.0 32.2 96.6

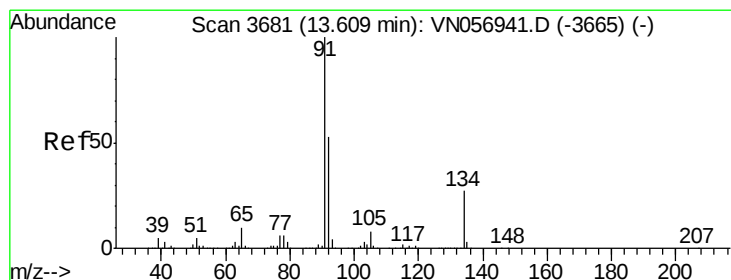
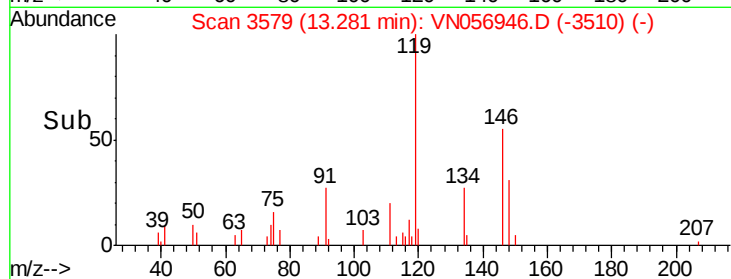
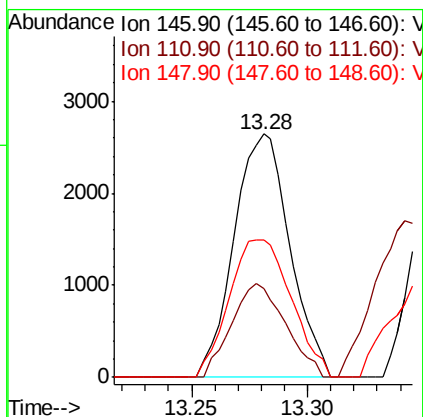
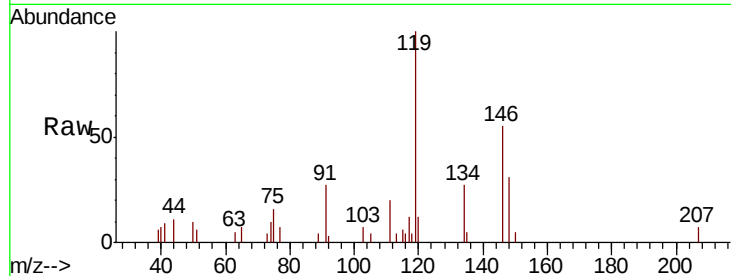




#88
 1,4-Dichlorobenzene
 Concen: 0.638 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.08 min
 Lab File: VN056946.D
 Acq: 26 Jul 2019 17:00

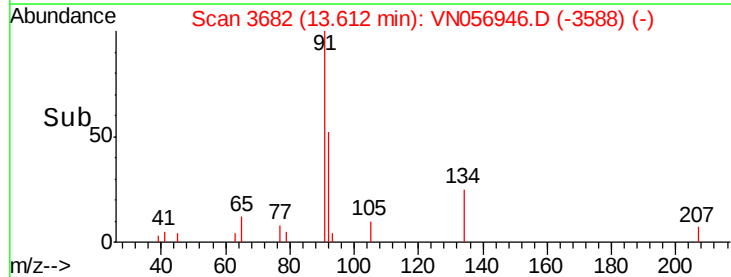
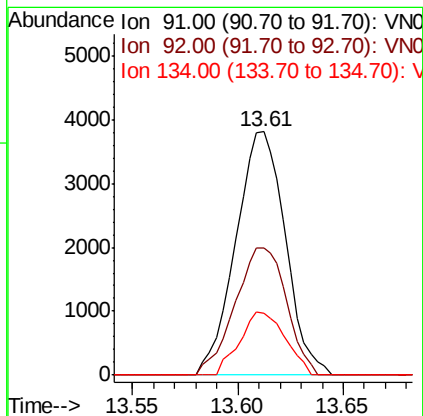
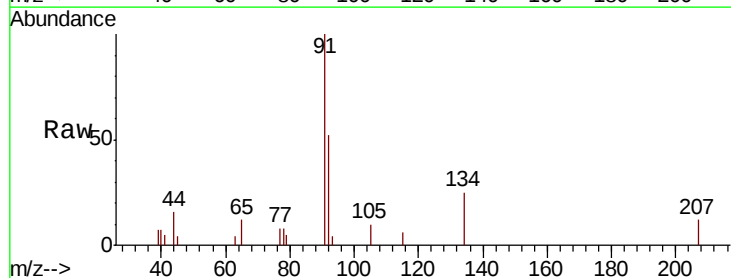
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

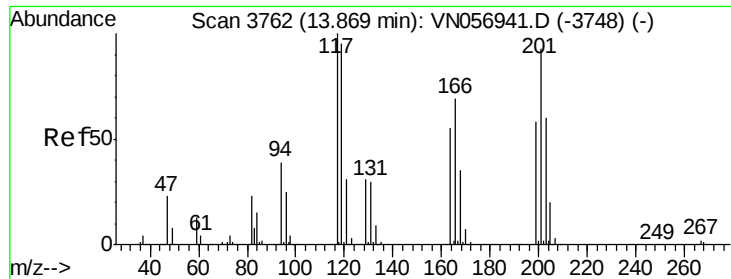
Tot Ion:146 Resp: 4409
 Ion Ratio Lower Upper
 146 100
 111 37.5 18.4 55.2
 148 63.0 32.3 96.9



#89
 n-Butylbenzene
 Concen: 0.538 ug/l
 RT: 13.61 min Scan# 3682
 Delta R.T. 0.00 min
 Lab File: VN056946.D
 Acq: 26 Jul 2019 17:00

Tgt Ion: 91 Resp: 6236
 Ion Ratio Lower Upper
 91 100
 92 54.2 26.2 78.5
 134 23.6 13.5 40.4





#90

Hexachloroethane

Concen: 0.471 ug/l

RT: 13.87 min Scan# 3762

Delta R.T. 0.00 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

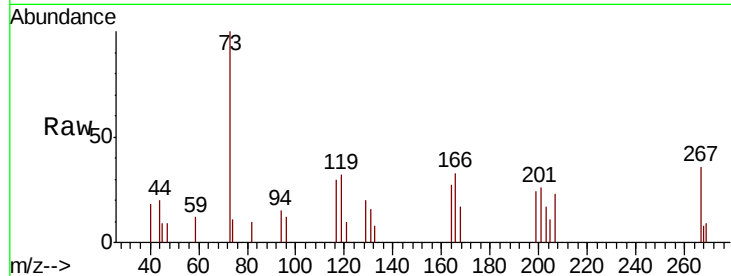
MDL-MDL-WATER-03-QT3-2019

Tot Ion:117 Resp: 1220

Ion Ratio Lower Upper

117 100

201 91.1 47.0 141.2



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

13.87

800

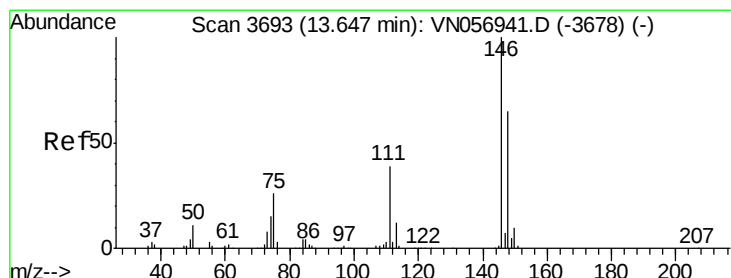
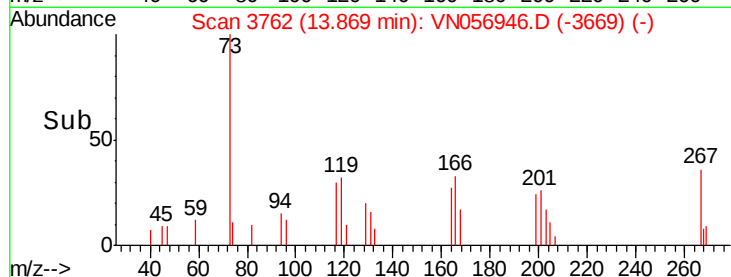
600

400

200

0

Time-->



#91

1,2-Dichlorobenzene

Concen: 0.684 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.01 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

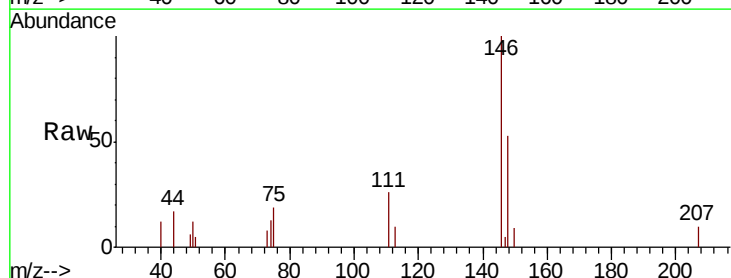
Tgt Ion:146 Resp: 4827

Ion Ratio Lower Upper

146 100

111 31.5 19.4 58.4

148 56.4 32.2 96.6



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

4000

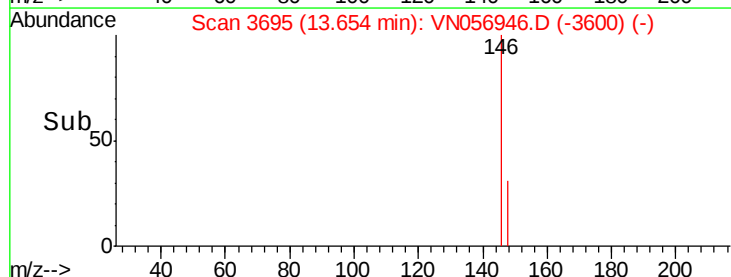
3000

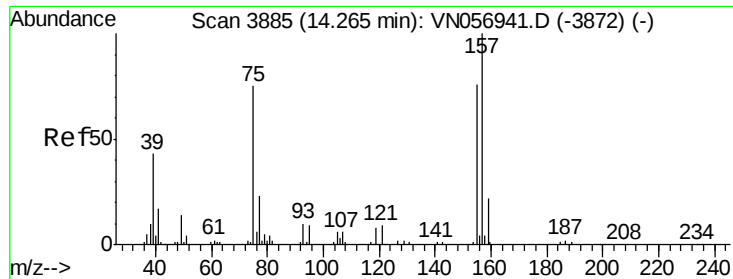
2000

1000

0

Time-->

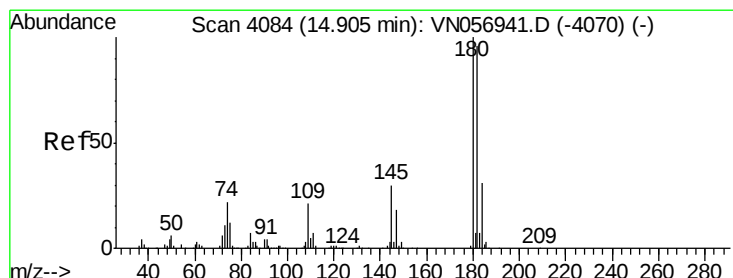
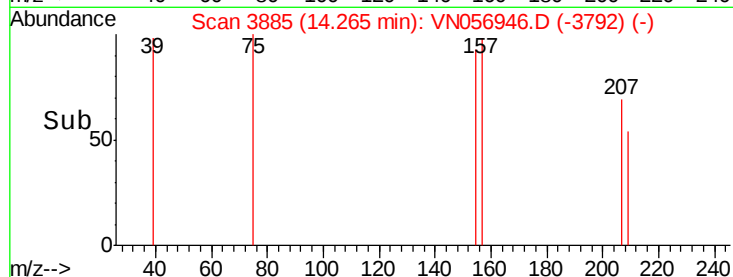
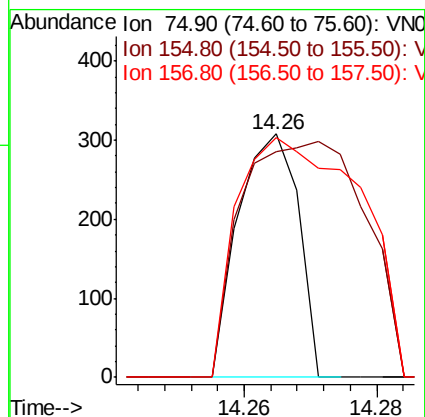
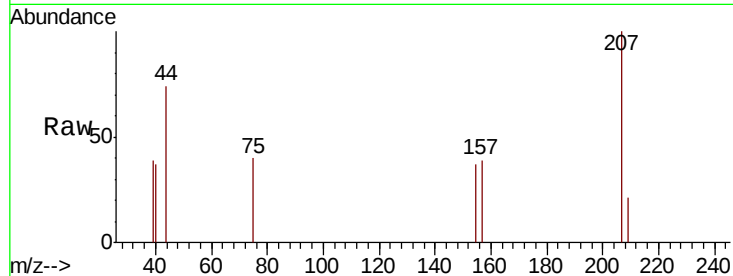




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.271 ug/l
 RT: 14.26 min Scan# 3885
 Delta R.T. 0.00 min
 Lab File: VN056946.D
 Acq: 26 Jul 2019 17:00

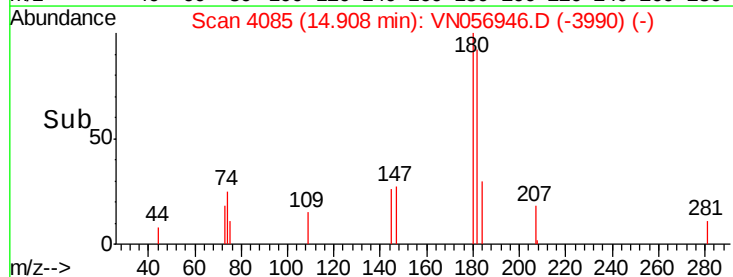
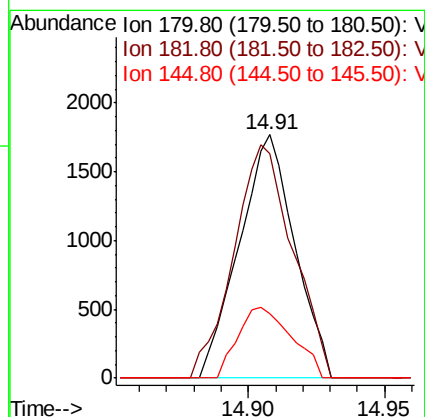
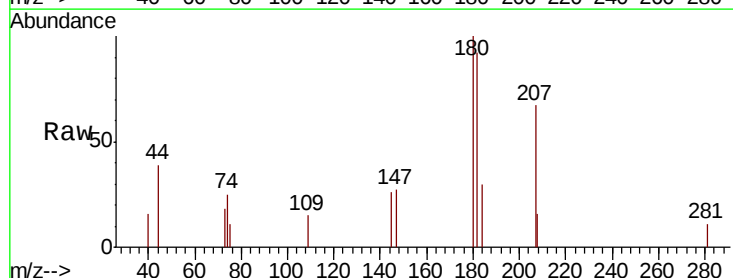
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

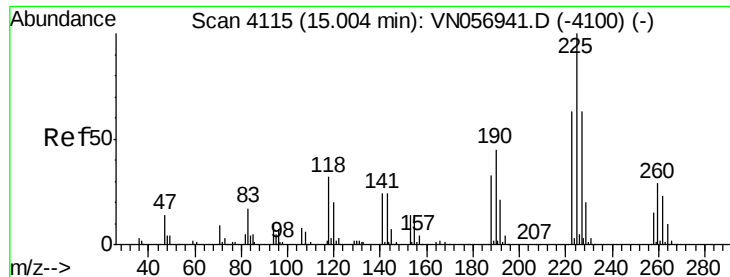
Tot Ion: 75 Resp: 195
 Ion Ratio Lower Upper
 75 100
 155 198.5 50.2 150.6#
 157 200.5 65.1 195.4#



#93
 1,2,4-Trichlorobenzene
 Concen: 3.360 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN056946.D
 Acq: 26 Jul 2019 17:00

Tgt Ion:180 Resp: 2496
 Ion Ratio Lower Upper
 180 100
 182 102.1 47.6 142.8
 145 28.4 14.2 42.8





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.00 min Scan# 4115

Delta R.T. 0.00 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

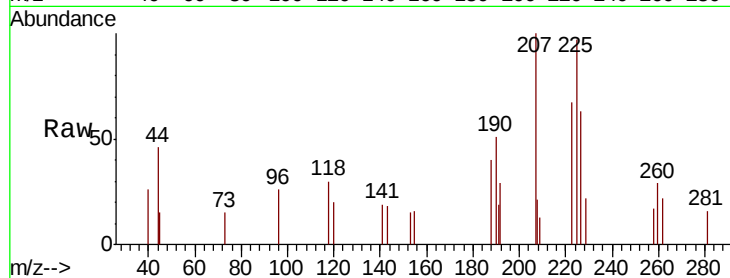
Tot Ion:225 Resp: 1866

Ion Ratio Lower Upper

225 100

223 70.3 30.8 92.4

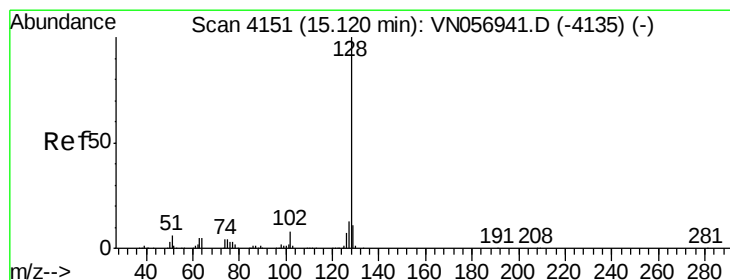
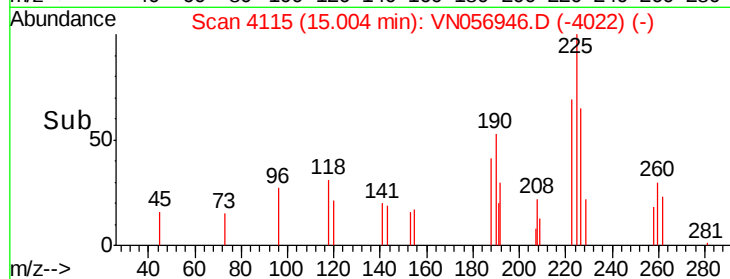
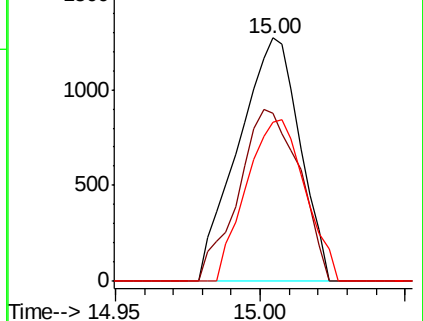
227 63.5 31.1 93.5



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 4.229 ug/l

RT: 15.12 min Scan# 4151

Delta R.T. 0.00 min

Lab File: VN056946.D

Acq: 26 Jul 2019 17:00

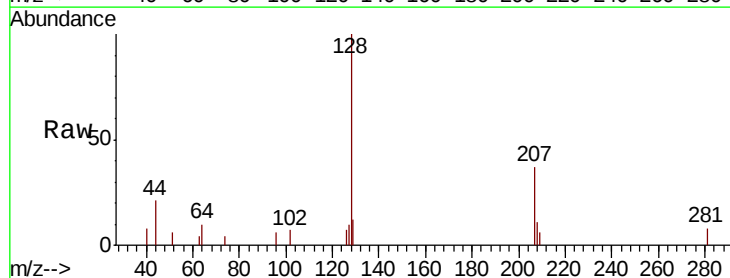
Tgt Ion:128 Resp: 6135

Ion Ratio Lower Upper

128 100

127 9.5 10.0 15.0#

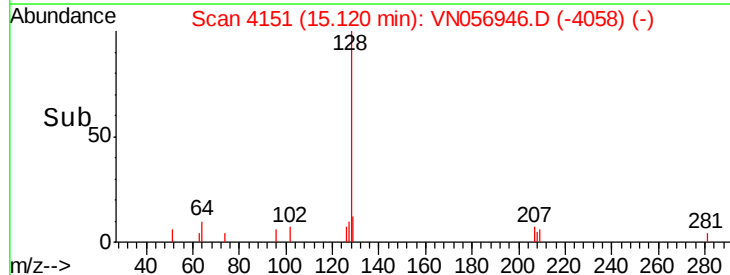
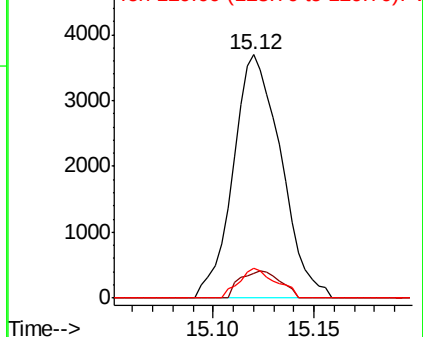
129 9.5 8.7 13.1

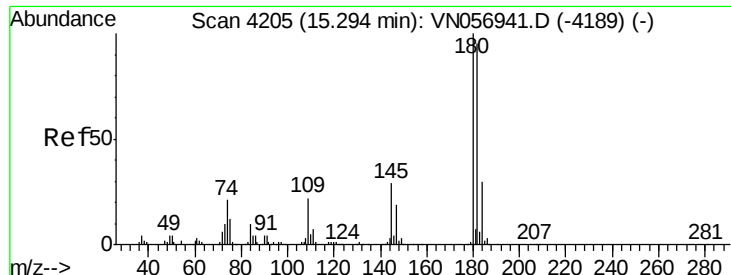


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 2.892 ug/l
 RT: 15.29 min Scan# 4204
 Delta R.T. -0.00 min
 Lab File: VN056946.D
 Acq: 26 Jul 2019 17:00

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
180	100		
182	89.0	48.0	144.2
145	34.2	15.0	45.0

