

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072719\
 Data File : VN056947.D
 Acq On : 26 Jul 2019 17:27
 Operator : JC/SP
 Sample : K3591-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 8/2/2019 9:13:41 AM

Quant Time: Jul 27 01:35:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 01:19:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	581809	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	899085	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	751192	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	227658	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	306180	51.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.82%	
35) Dibromofluoromethane	7.58	113	276119	47.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.94%	
50) Toluene-d8	10.08	98	1037998	47.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.58%	
62) 4-Bromofluorobenzene	12.40	95	285639	39.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.96%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.84	85	11979	2.037	ug/l	95
3) Chloromethane	2.05	50	19026	2.701	ug/l	99
4) Vinyl Chloride	2.18	62	15343	2.323	ug/l	100
5) Bromomethane	2.55	94	13597	3.312	ug/l	96
6) Chloroethane	2.69	64	9542	2.621	ug/l	94
7) Trichlorofluoromethane	3.00	101	21079	2.438	ug/l	97
8) Diethyl Ether	3.39	74	8239	2.547	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.74	101	13113	2.447	ug/l	96
10) Methyl Iodide	3.94	142	9377	1.309	ug/l	99
11) Tert butyl alcohol	4.77	59	10947	13.599	ug/l #	95
12) 1,1-Dichloroethene	3.72	96	13426	2.625	ug/l	94
13) Acrolein	3.60	56	5764	13.161	ug/l	93
14) Allyl chloride	4.30	41	20215	2.430	ug/l	96
15) Acrylonitrile	4.98	53	29168	12.355	ug/l	98
16) Acetone	3.81	43	25963	12.033	ug/l	99
17) Carbon Disulfide	4.03	76	31282	2.302	ug/l	100
18) Methyl Acetate	4.31	43	18103m	2.630	ug/l	
19) Methyl tert-butyl Ether	5.03	73	38314	2.513	ug/l	92
20) Methylene Chloride	4.54	84	15859	2.552	ug/l	90
21) trans-1,2-Dichloroethene	5.02	96	13780	2.537	ug/l	96
22) Diisopropyl ether	5.94	45	42316	2.469	ug/l	97
23) Vinyl Acetate	5.88	43	141015	11.874	ug/l	98
24) 1,1-Dichloroethane	5.83	63	25409	2.513	ug/l	99
25) 2-Butanone	6.82	43	37265	12.180	ug/l	99
26) 2,2-Dichloropropane	6.81	77	17958	2.335	ug/l #	75
27) cis-1,2-Dichloroethene	6.81	96	16676	2.596	ug/l	99
28) Bromochloromethane	7.18	49	11972	2.519	ug/l	95
29) Tetrahydrofuran	7.20	42	25085	12.567	ug/l	99
30) Chloroform	7.36	83	26236	2.537	ug/l	94
31) Cyclohexane	7.64	56	30076	3.073	ug/l #	53
32) 1,1,1-Trichloroethane	7.55	97	20297	2.460	ug/l	96
36) 1,1-Dichloropropene	7.78	75	19370	2.448	ug/l	99
37) Ethyl Acetate	6.92	43	15107	2.384	ug/l #	89
38) Carbon Tetrachloride	7.76	117	17181	2.296	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	22737	2.249	ug/l	99
40) Benzene	8.03	78	60317	2.475	ug/l	97
41) Methacrylonitrile	7.17	41	7192m	2.455	ug/l	
42) 1,2-Dichloroethane	8.11	62	19254	2.521	ug/l	98
43) Isopropyl Acetate	8.15	43	24853	2.373	ug/l	97
44) Trichloroethene	8.82	130	15848	2.361	ug/l	100
45) 1,2-Dichloropropane	9.10	63	14849	2.278	ug/l	100
46) Dibromomethane	9.20	93	9634	2.451	ug/l	95
47) Bromodichloromethane	9.39	83	17707	2.291	ug/l	98
48) Methyl methacrylate	9.19	41	11728	2.320	ug/l	97
49) 1,4-Dioxane	9.19	88	5106	49.003	ug/l #	90
51) 4-Methyl-2-Pentanone	9.98	43	73868	11.871	ug/l	97
52) Toluene	10.15	92	34672	2.368	ug/l	95
53) t-1,3-Dichloropropene	10.37	75	16014	1.997	ug/l	100
54) cis-1,3-Dichloropropene	9.83	75	19688	2.111	ug/l	97
55) 1,1,2-Trichloroethane	10.55	97	14464	2.464	ug/l	95
56) Ethyl methacrylate	10.42	69	17891	2.268	ug/l	98
57) 1,3-Dichloropropane	10.70	76	23368	2.400	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	35687	10.143	ug/l	99
59) 2-Hexanone	10.74	43	48425	11.172	ug/l	93
60) Dibromochloromethane	10.89	129	12923	2.148	ug/l	100
61) 1,2-Dibromoethane	11.00	107	13561	2.367	ug/l	96
64) Tetrachloroethene	10.62	164	15845	2.448	ug/l	96
65) Chlorobenzene	11.43	112	36533	2.386	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.50	131	13367	2.320	ug/l	98
67) Ethyl Benzene	11.50	91	60732	2.295	ug/l	97
68) m/p-Xylenes	11.62	106	43375	4.442	ug/l	97
69) o-Xylene	11.94	106	21651	2.266	ug/l	99
70) Styrene	11.96	104	32164	2.111	ug/l	97
71) Bromoform	12.12	173	8785	2.184	ug/l #	94
73) Isopropylbenzene	12.24	105	57605	2.928	ug/l	97
74) N-amyl acetate	12.07	43	13807	2.417	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	17584	3.068	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	14758m	3.192	ug/l	
77) Bromobenzene	12.52	156	14594	2.842	ug/l	98
78) n-propylbenzene	12.58	91	56378	2.684	ug/l	99
79) 2-Chlorotoluene	12.67	91	37048	2.864	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	46177	2.860	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	3041m	2.113	ug/l	
82) 4-Chlorotoluene	12.77	91	32203	2.660	ug/l	98
83) tert-Butylbenzene	12.99	119	41877	2.929	ug/l	97
84) 1,2,4-Trimethylbenzene	13.04	105	42946	2.764	ug/l	97
85) sec-Butylbenzene	13.17	105	51182	2.776	ug/l	100
86) p-Isopropyltoluene	13.28	119	44761	2.734	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	20195	2.585	ug/l	96
88) 1,4-Dichlorobenzene	13.36	146	18253	2.427	ug/l	90
89) n-Butylbenzene	13.61	91	30309	2.402	ug/l	99
90) Hexachloroethane	13.87	117	7431	2.636	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	20191	2.626	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.26	75	2083	2.662	ug/l	93

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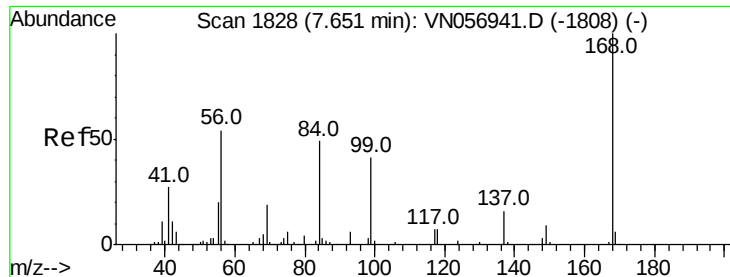
Manual Integrations
APPROVED

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	6218	1.865	ug/l	97
94) Hexachlorobutadiene	15.01	225	8913	2.785	ug/l	99
95) Naphthalene	15.12	128	14954	1.956	ug/l	96
96) 1,2,3-Trichlorobenzene	15.29	180	7941	2.278	ug/l	97

(#) = 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: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion:168 Resp: 581809

Ion Ratio Lower Upper

168 100

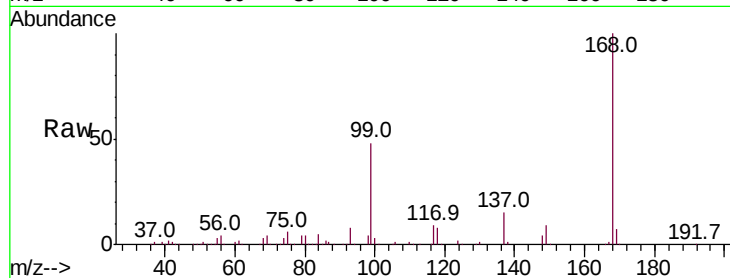
99 47.5 39.0 58.4

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

250000

200000

150000

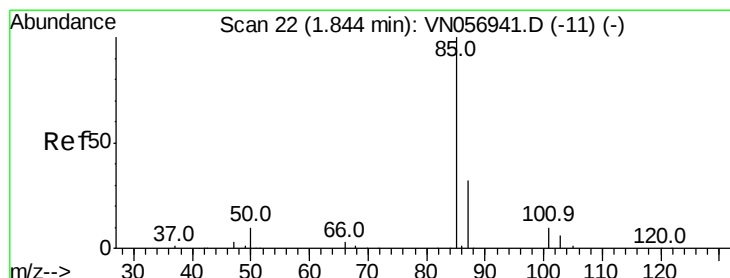
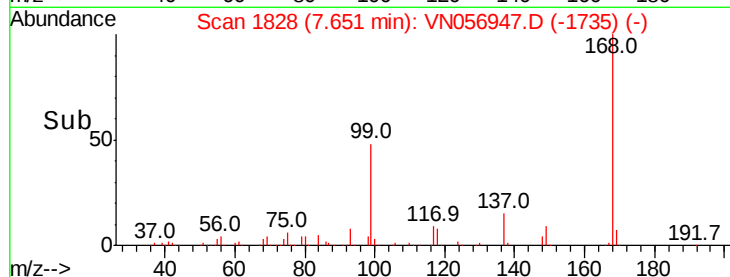
100000

50000

0

7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 2.037 ug/l

RT: 1.84 min Scan# 22

Delta R.T. 0.00 min

Lab File: VN056947.D

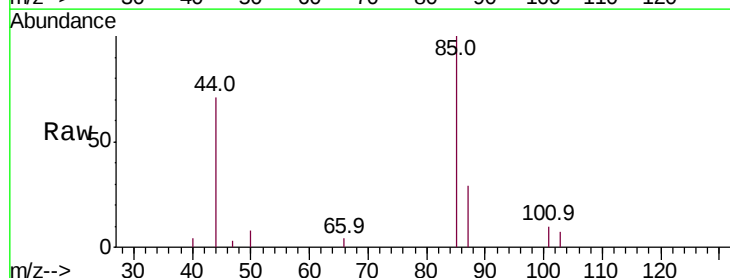
Acq: 26 Jul 2019 17:27

Tgt Ion: 85 Resp: 11979

Ion Ratio Lower Upper

85 100

87 28.9 15.8 47.4



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.84

8000

6000

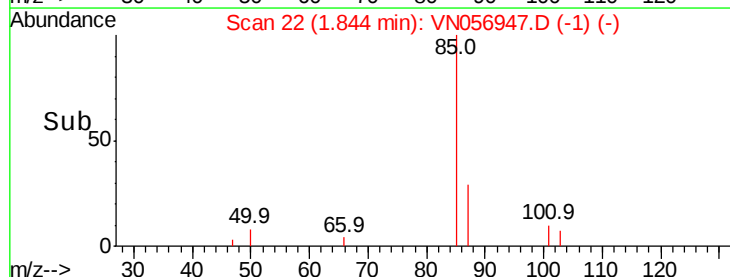
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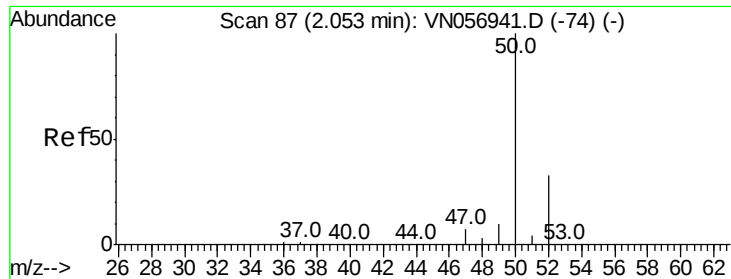
2000

0

1.80 1.85 1.90

Time-->





#3

Chloromethane

Concen: 2.701 ug/l

RT: 2.05 min Scan# 87

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion: 50 Resp: 19026

Ion Ratio Lower Upper

50 100

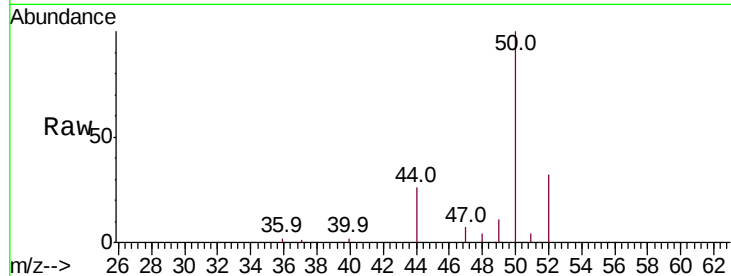
52 31.9 26.2 39.2

Manual Integrations

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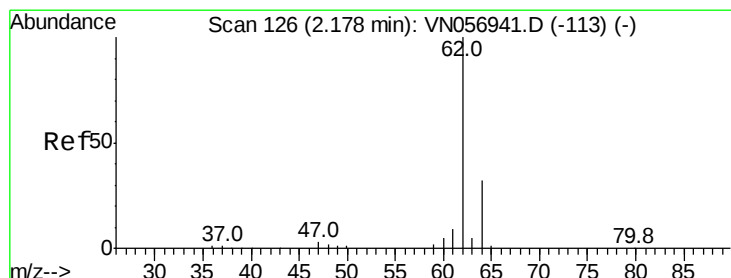
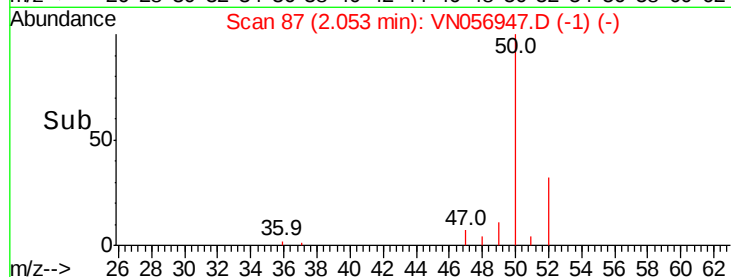
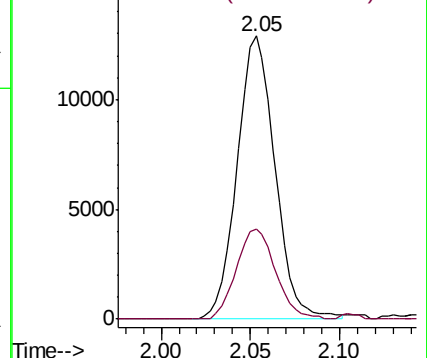
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Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 2.323 ug/l

RT: 2.18 min Scan# 126

Delta R.T. 0.00 min

Lab File: VN056947.D

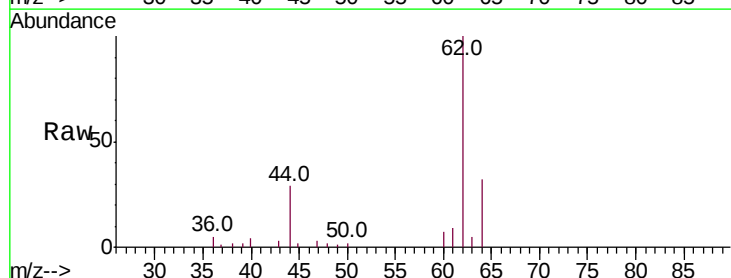
Acq: 26 Jul 2019 17:27

Tgt Ion: 62 Resp: 15343

Ion Ratio Lower Upper

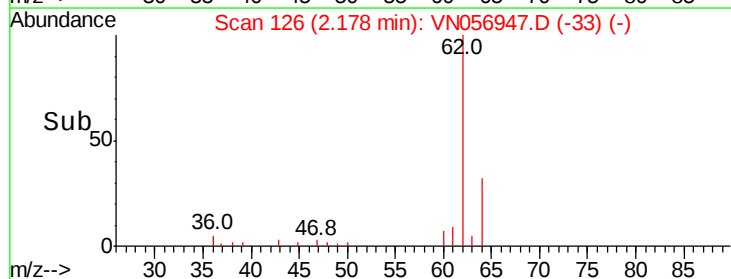
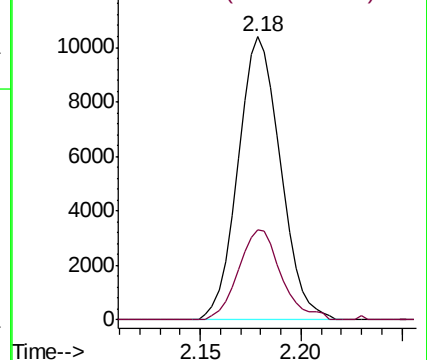
62 100

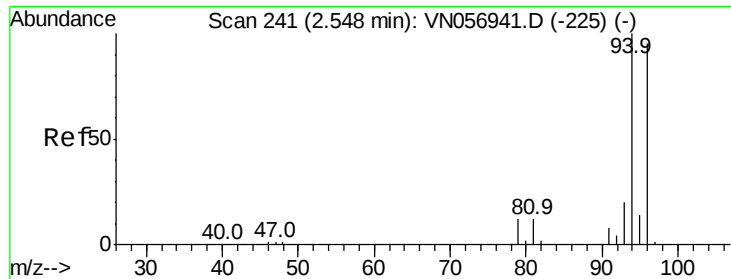
64 31.8 25.4 38.0



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





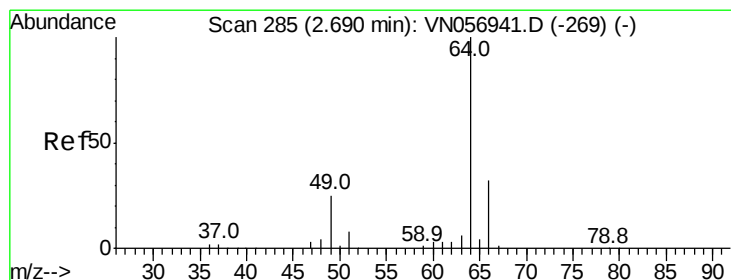
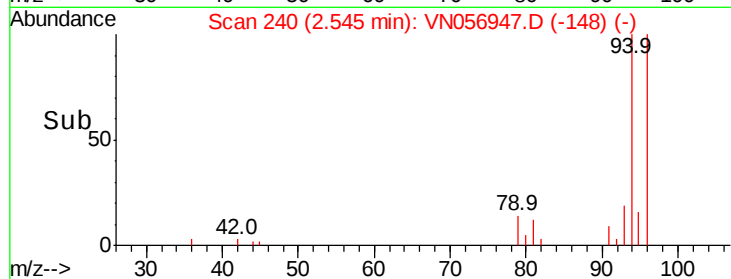
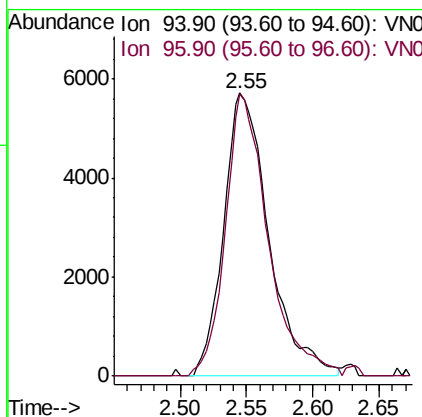
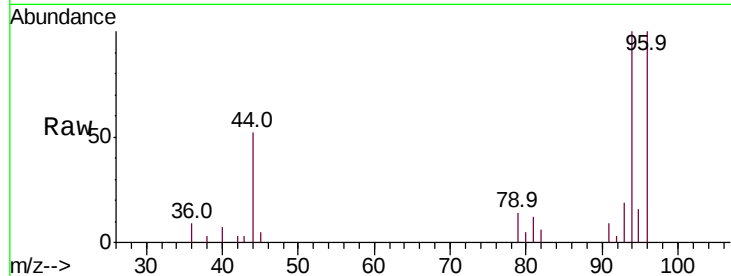
#5
Bromomethane
Concen: 3.312 ug/l
RT: 2.55 min Scan# 240
Delta R.T. -0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

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

Tot Ion: 94 Resp: 13597
Ion Ratio Lower Upper
94 100
96 99.5 76.2 114.2

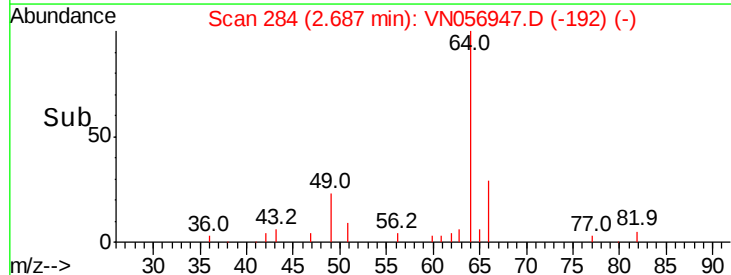
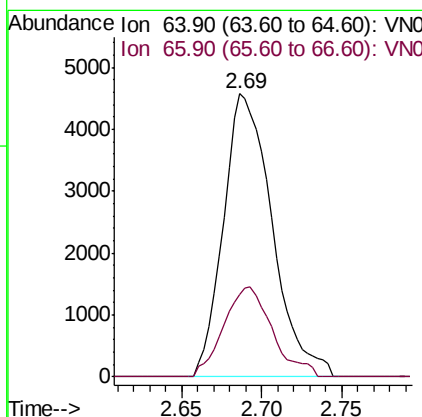
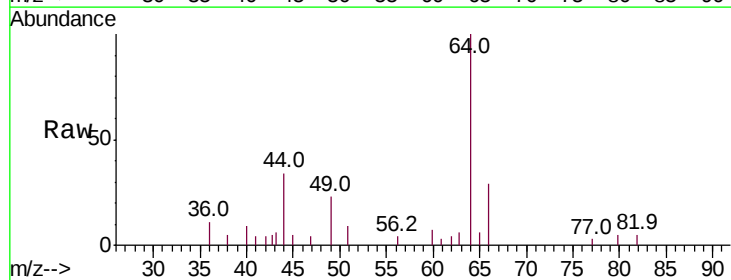
Manual Integrations
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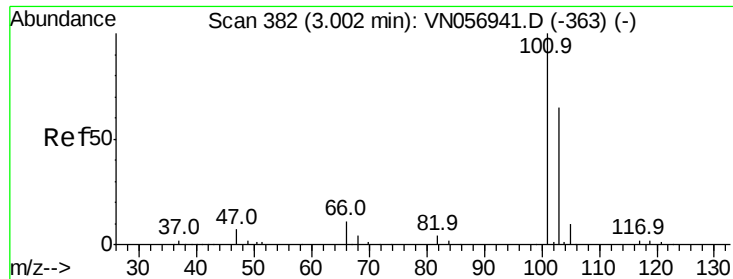
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8/2/2019 9:13:41 AM



#6
Chloroethane
Concen: 2.621 ug/l
RT: 2.69 min Scan# 284
Delta R.T. -0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

Tgt Ion: 64 Resp: 9542
Ion Ratio Lower Upper
64 100
66 29.2 25.8 38.8





#7

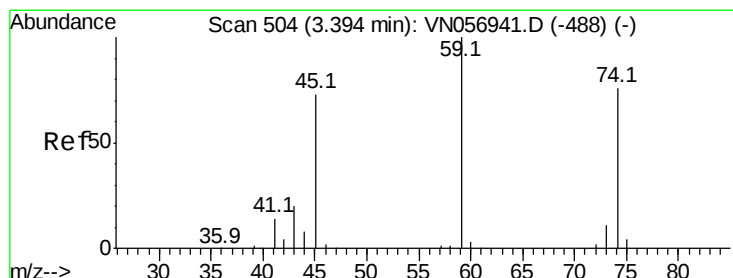
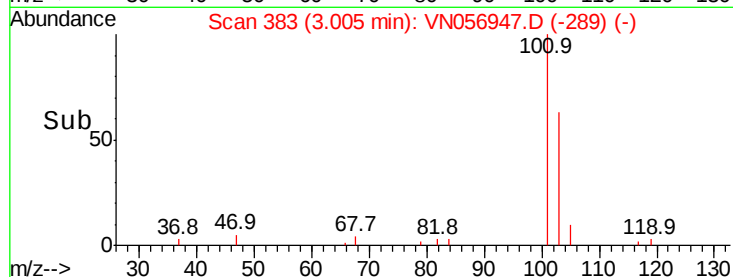
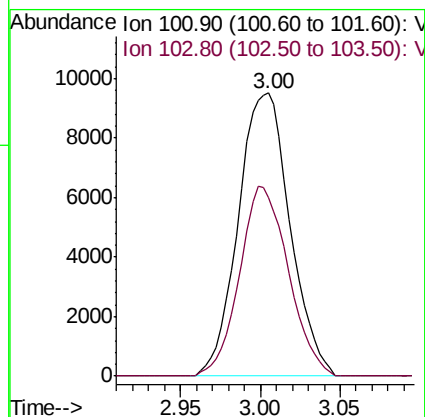
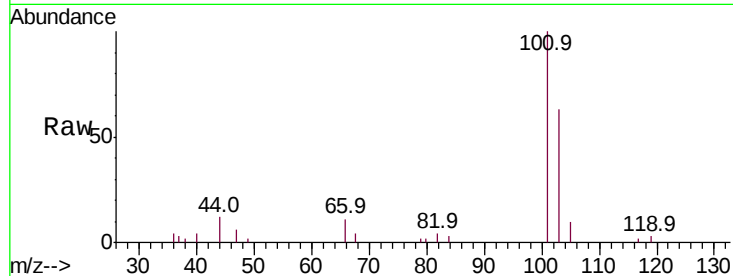
Trichlorofluoromethane
Concen: 2.438 ug/l
RT: 3.00 min Scan# 383
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

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

Tot Ion:101 Resp: 21079
Ion Ratio Lower Upper
101 100
103 62.9 52.1 78.1

Manual Integrations
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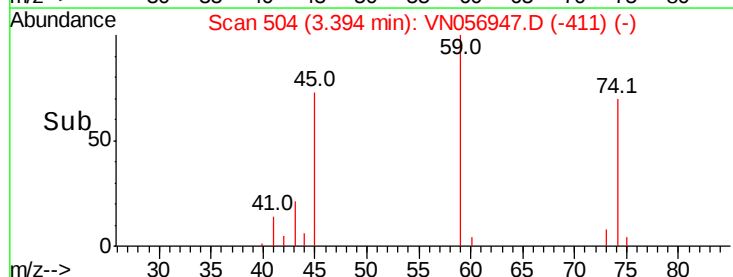
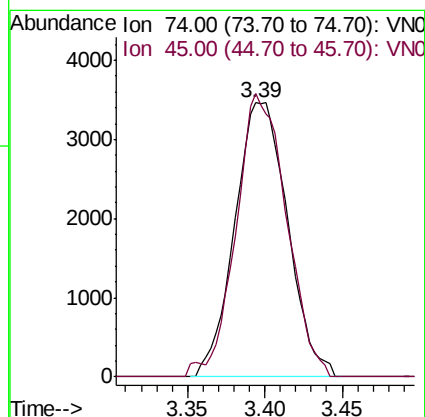
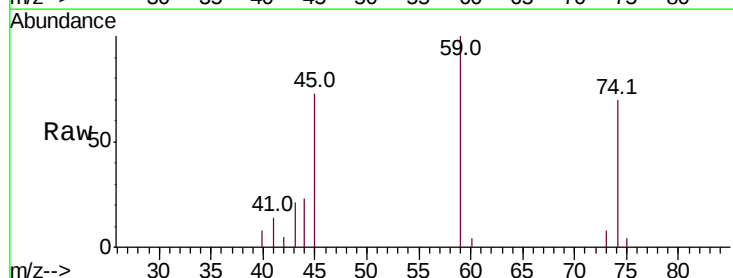
MMDadoda
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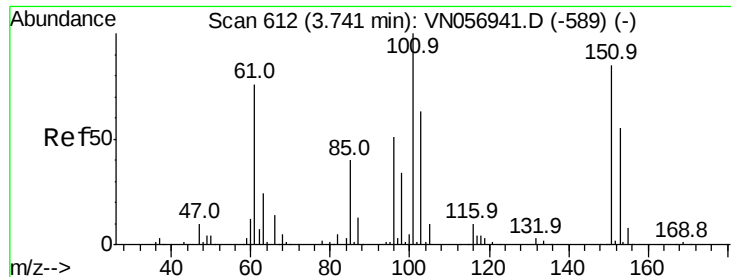


#8

Diethyl Ether
Concen: 2.547 ug/l
RT: 3.39 min Scan# 504
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

Tgt Ion: 74 Resp: 8239
Ion Ratio Lower Upper
74 100
45 98.6 48.1 144.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.447 ug/l

RT: 3.74 min Scan# 613

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

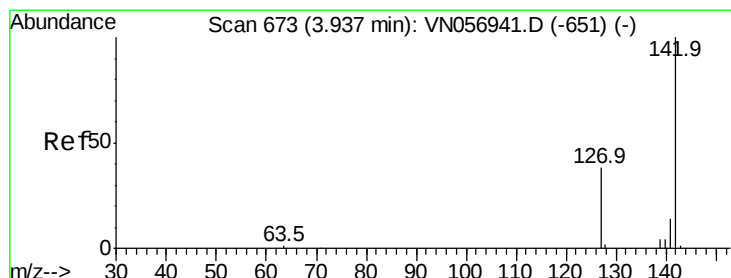
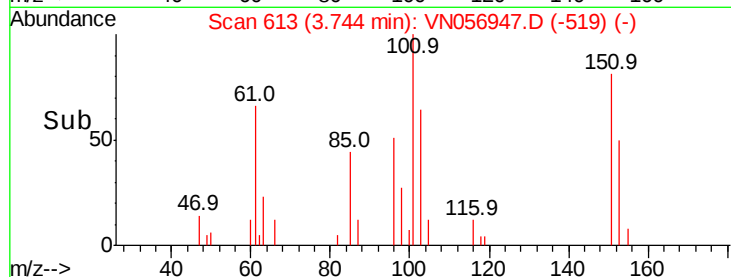
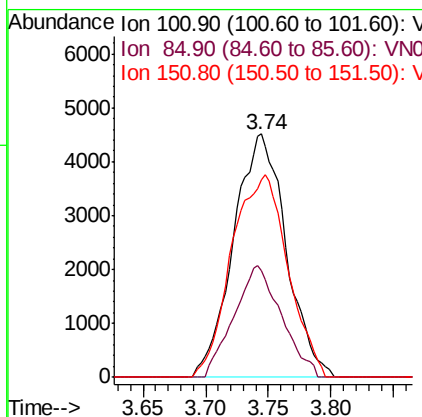
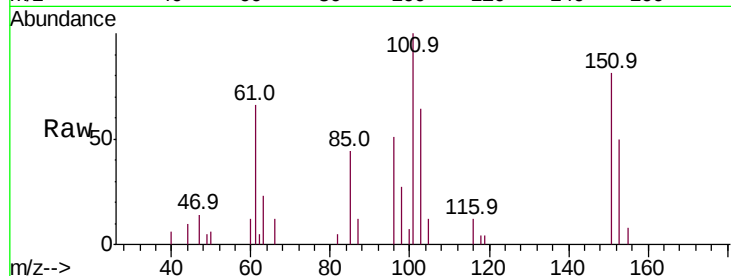
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion:	101	Resp:	13113
Ion Ratio	Lower	Upper	
101	100		
85	41.5	32.3	48.5
151	89.2	68.0	102.0

Manual Integrations
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MMDadoda
8/2/2019 9:13:41 AM



#10

Methyl Iodide

Concen: 1.309 ug/l

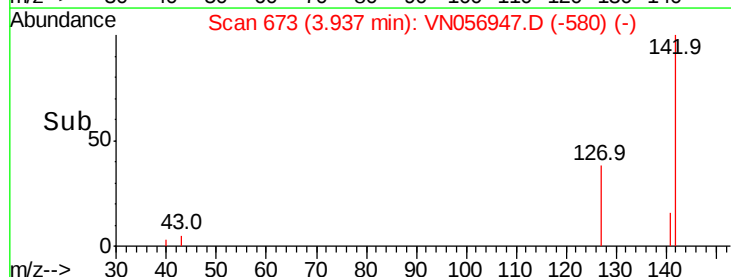
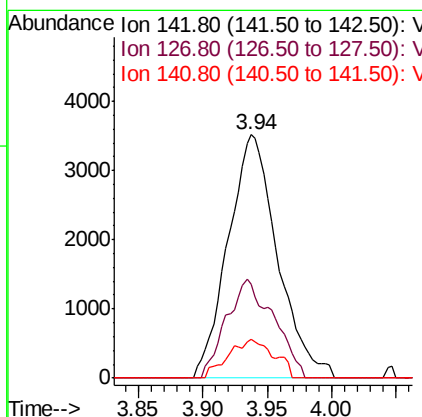
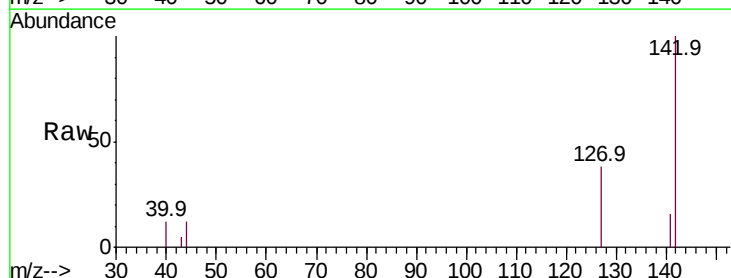
RT: 3.94 min Scan# 673

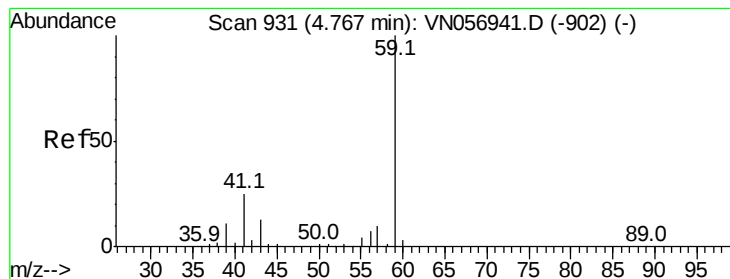
Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Tgt Ion:	142	Resp:	9377
Ion Ratio	Lower	Upper	
142	100		
127	38.8	30.4	45.6
141	14.5	11.1	16.7





#11

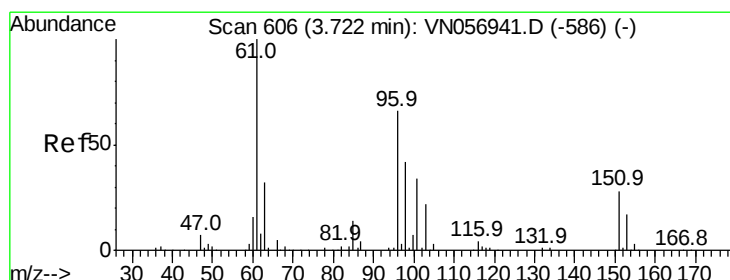
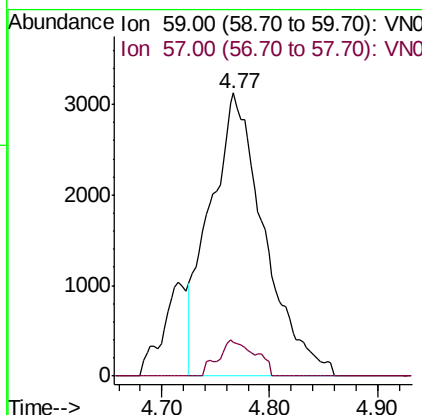
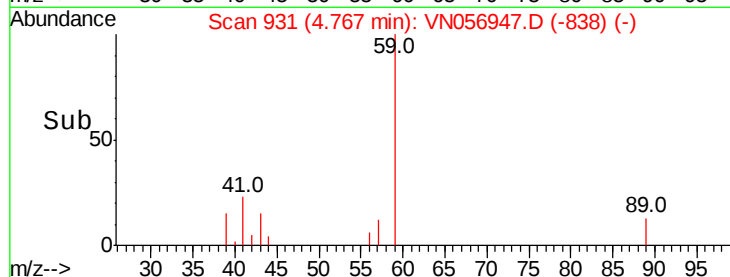
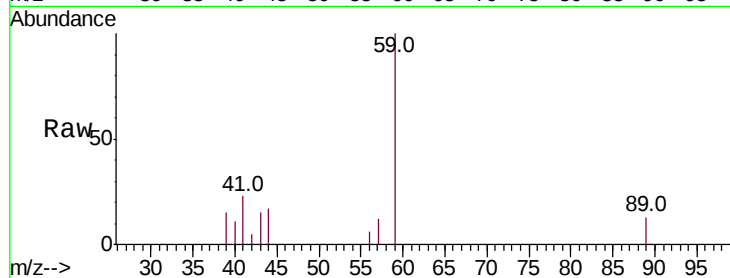
Tert butvl alcohol
Concen: 13.599 ug/l
RT: 4.77 min Scan# 931
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

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

Tot Ion: 59 Resp: 10947
Ion Ratio Lower Upper
59 100
57 7.5 7.5 11.3#

Manual Integrations
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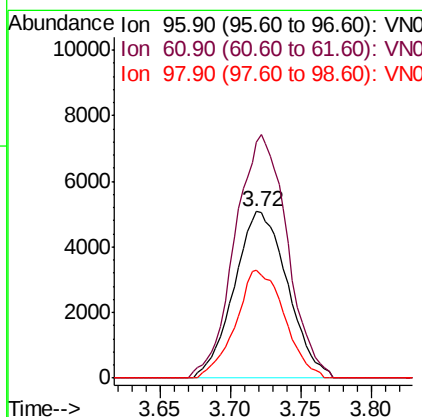
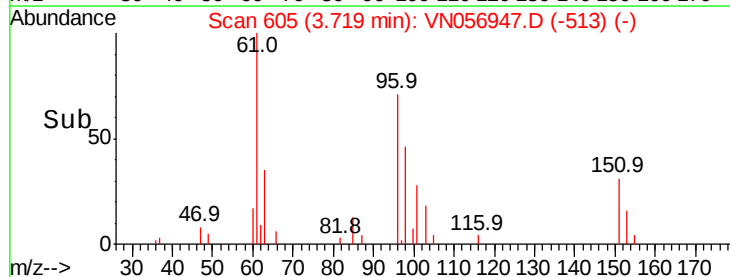
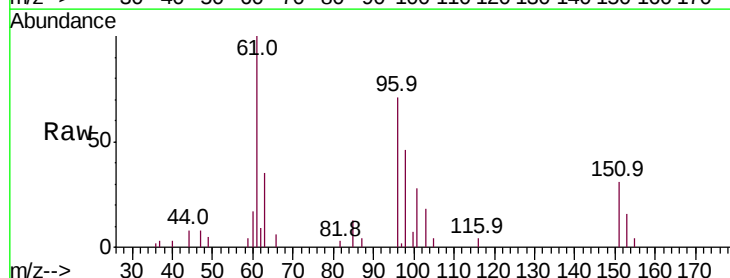
MMDadoda
8/2/2019 9:13:41 AM

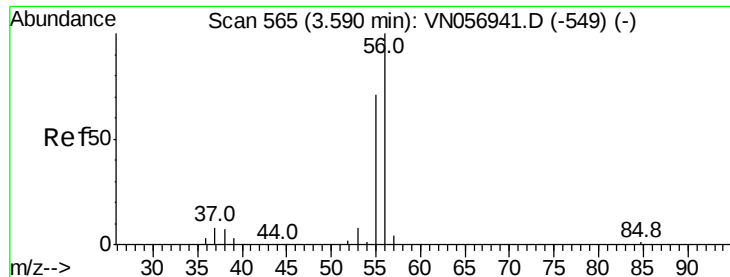


#12

1,1-Dichloroethene
Concen: 2.625 ug/l
RT: 3.72 min Scan# 605
Delta R.T. -0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

Tgt Ion: 96 Resp: 13426
Ion Ratio Lower Upper
96 100
61 141.7 121.8 182.8
98 64.9 51.7 77.5





#13

Acrolein

Concen: 13.161 ug/l

RT: 3.60 min Scan# 567

Delta R.T. 0.01 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion: 56 Resp: 5764

Ion Ratio Lower Upper

56 100

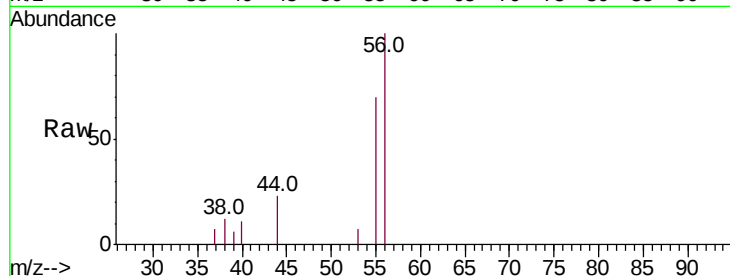
55 75.1 55.8 83.6

Manual Integrations

APPROVED

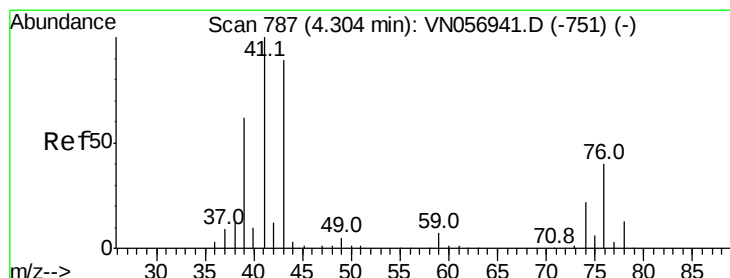
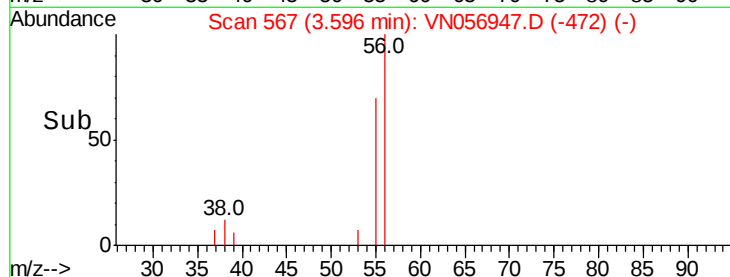
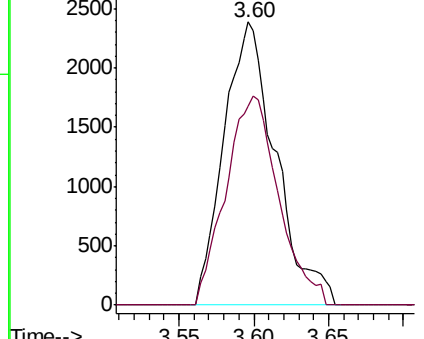
MMDadoda

8/2/2019 9:13:41 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 2.430 ug/l

RT: 4.30 min Scan# 786

Delta R.T. -0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

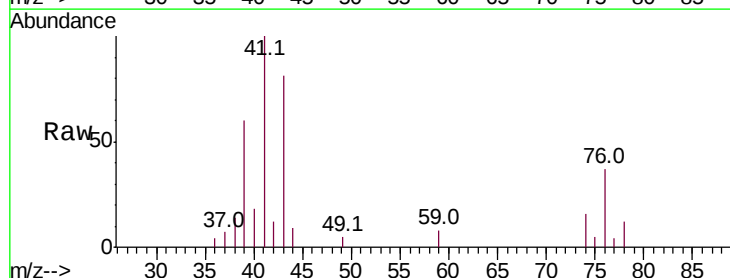
Tgt Ion: 41 Resp: 20215

Ion Ratio Lower Upper

41 100

39 61.2 46.4 69.6

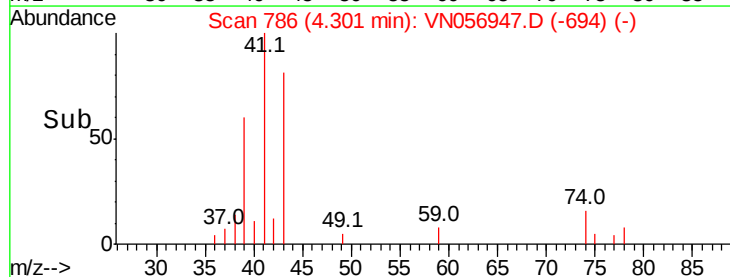
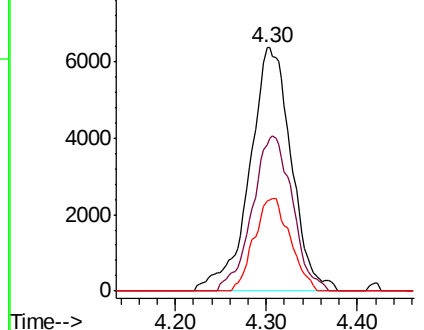
76 32.9 28.4 42.6

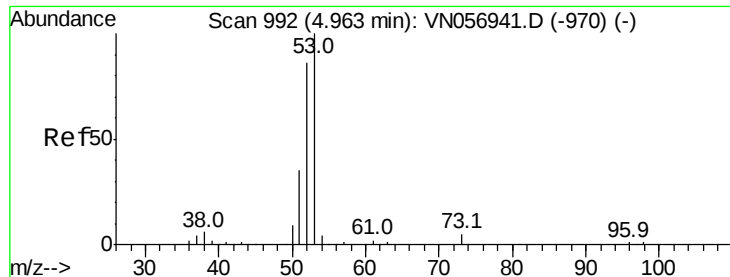


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 12.355 ug/l

RT: 4.98 min Scan# 996

Delta R.T. 0.01 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

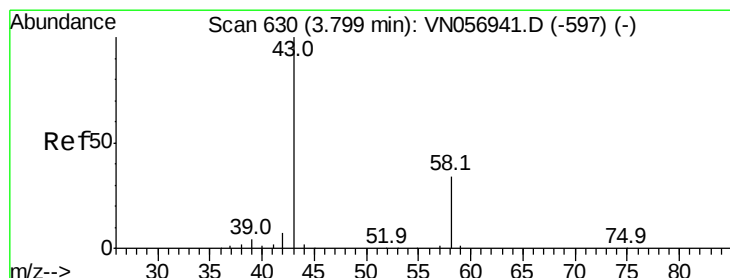
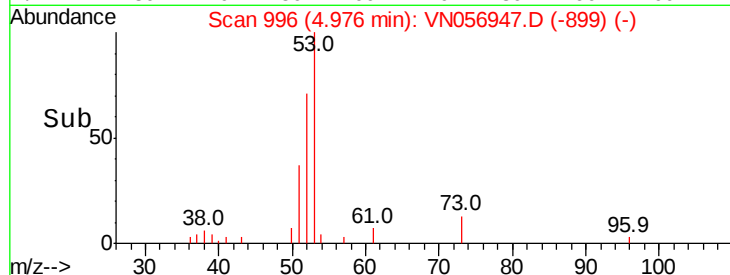
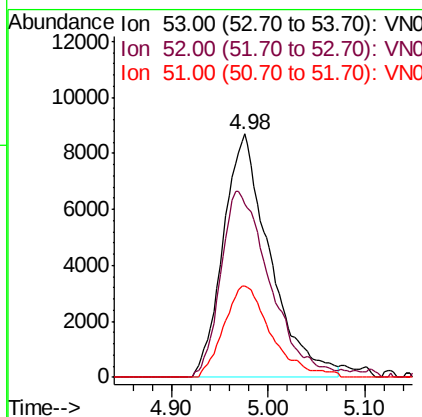
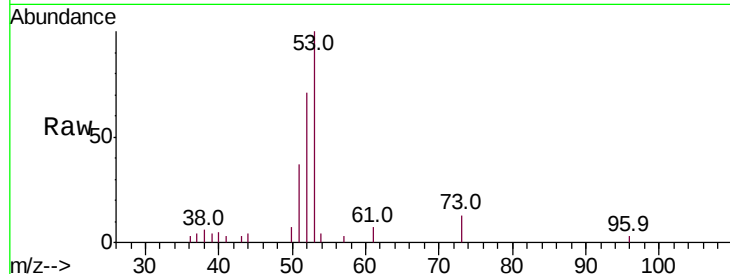
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion:	53	Resp:	29168
Ion	Ratio	Lower	Upper
53	100		
52	81.9	66.5	99.7
51	37.1	28.4	42.6

Manual Integrations
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MMDadoda
8/2/2019 9:13:41 AM



#16

Acetone

Concen: 12.033 ug/l

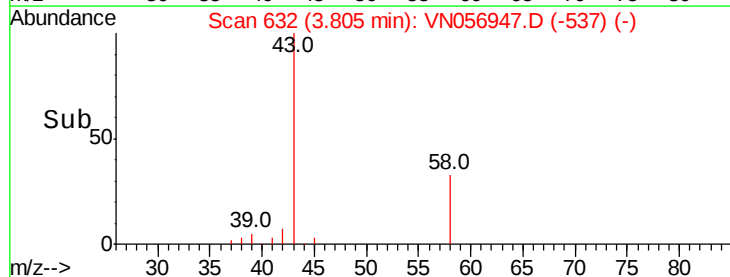
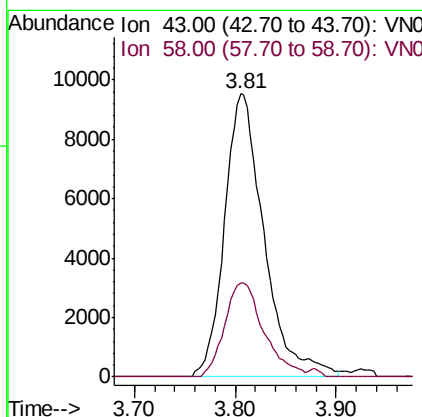
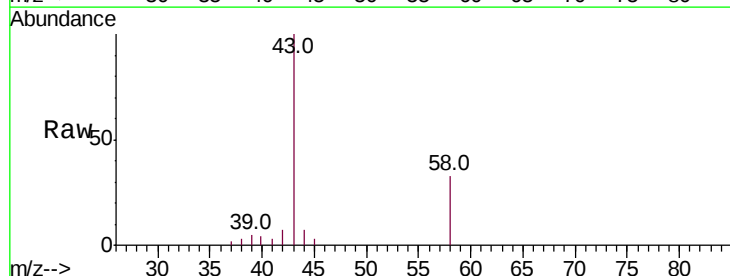
RT: 3.81 min Scan# 632

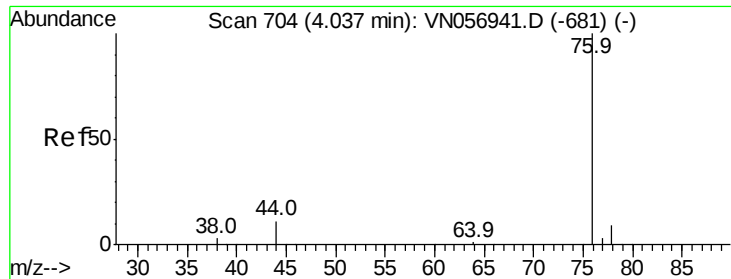
Delta R.T. 0.01 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Tgt Ion:	43	Resp:	25963
Ion	Ratio	Lower	Upper
43	100		
58	33.2	27.2	40.8





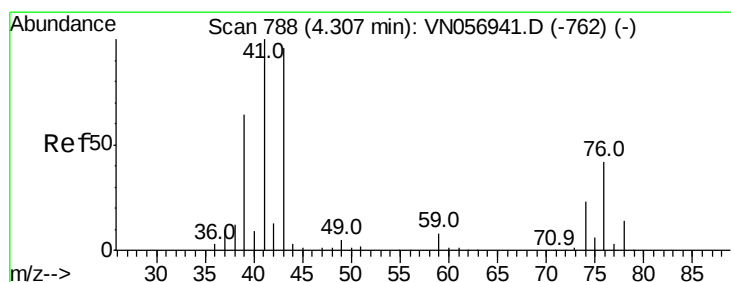
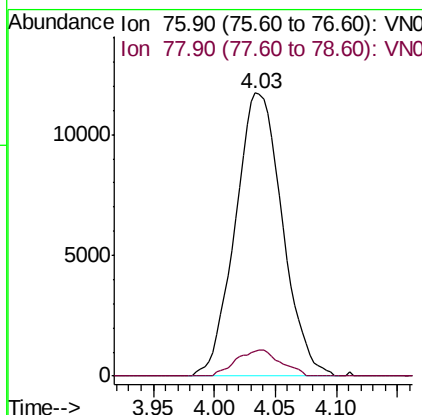
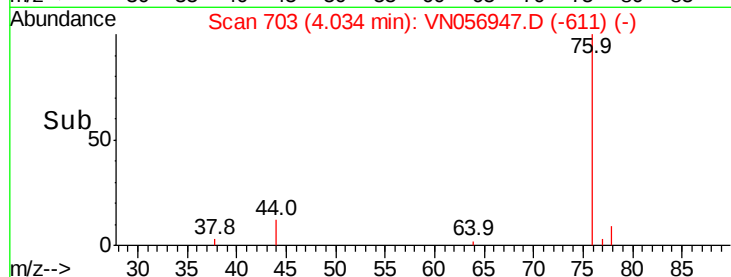
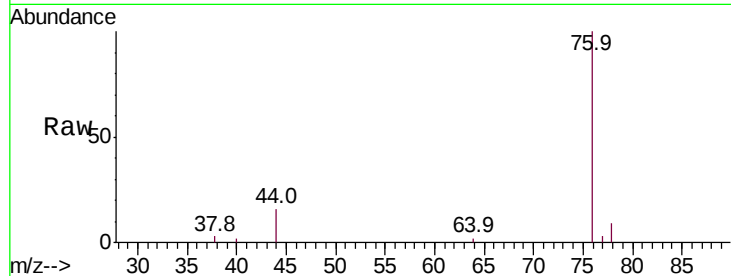
#17
Carbon Disulfide
Concen: 2.302 ug/l
RT: 4.03 min Scan# 703
Delta R.T. -0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

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

Tot Ion: 76 Resp: 31282
Ion Ratio Lower Upper
76 100
78 9.0 7.2 10.8

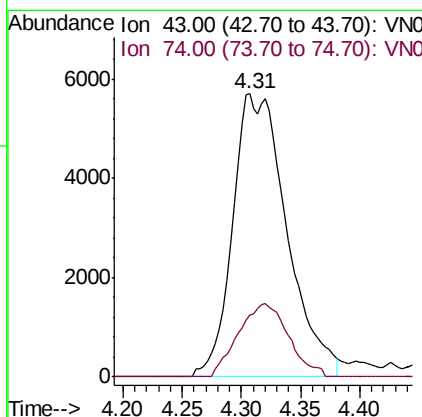
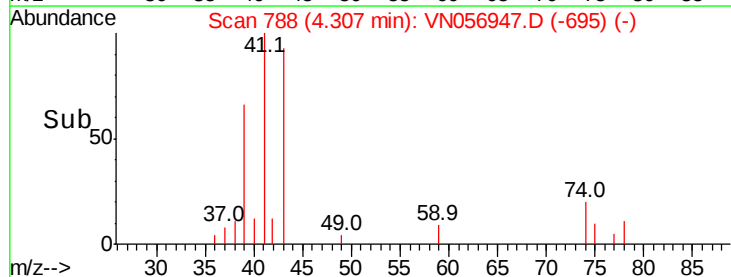
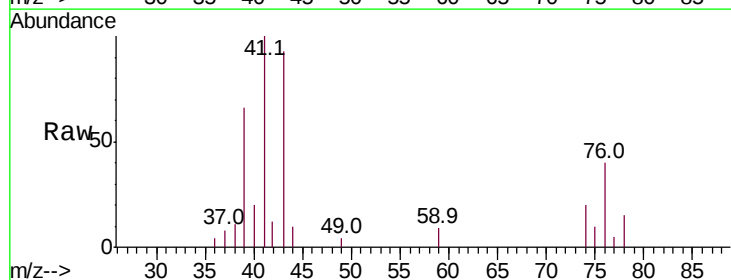
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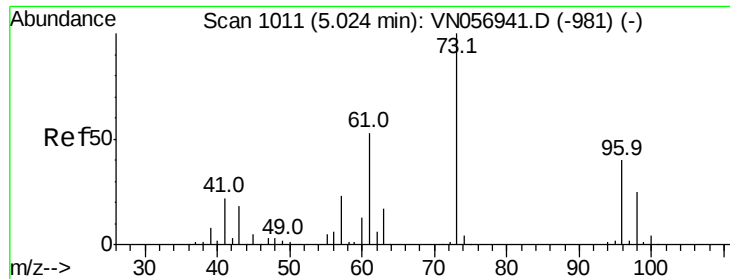
MMDadoda
8/2/2019 9:13:41 AM



#18
Methyl Acetate
Concen: 2.630 ug/l m
RT: 4.31 min Scan# 788
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

Tgt Ion: 43 Resp: 18103
Ion Ratio Lower Upper
43 100
74 24.1 19.7 29.5





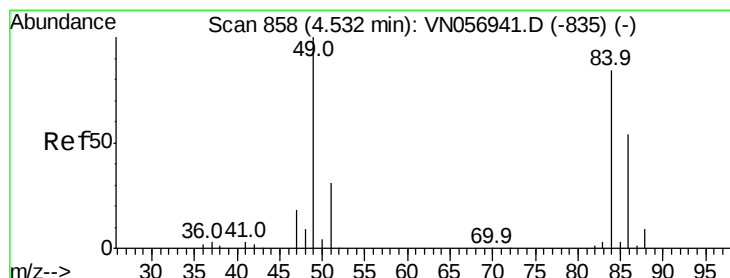
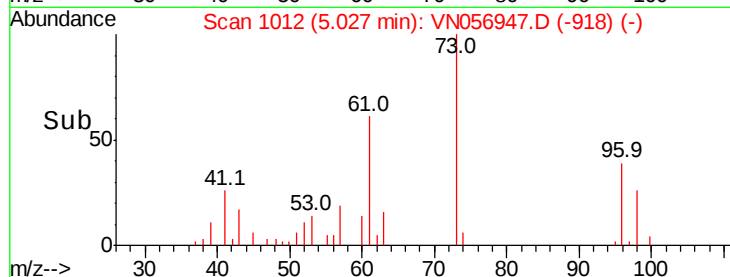
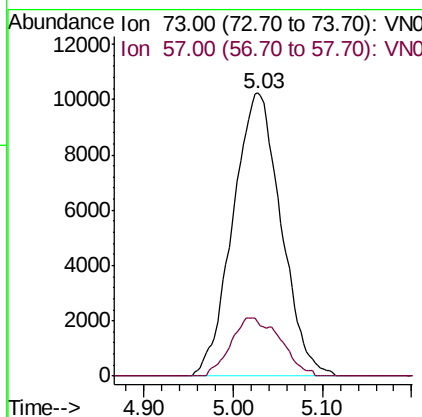
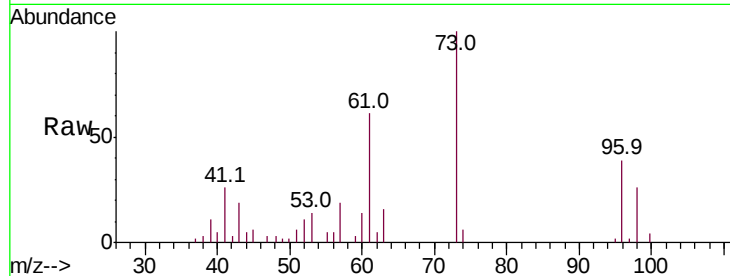
#19
Methyl tert-butyl Ether
Concen: 2.513 ug/l
RT: 5.03 min Scan# 1012
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

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

Tot Ion: 73 Resp: 38314
Ion Ratio Lower Upper
73 100
57 19.3 18.3 27.5

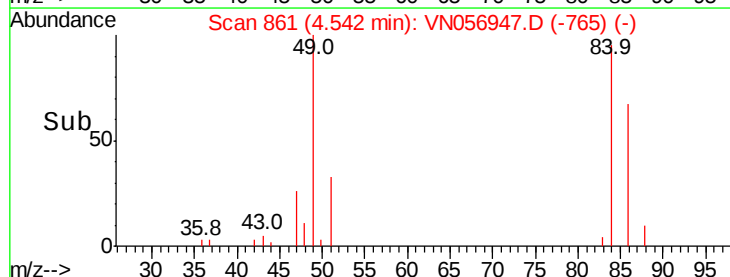
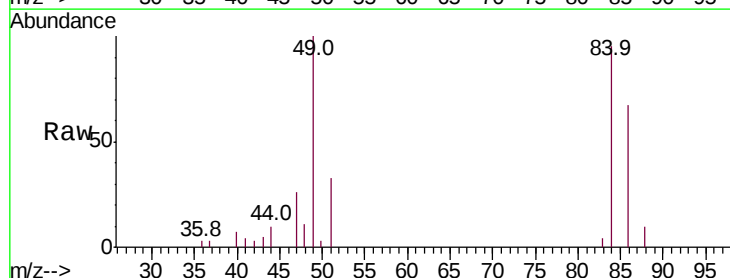
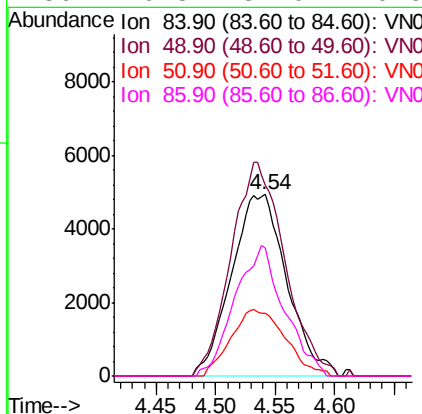
Manual Integrations
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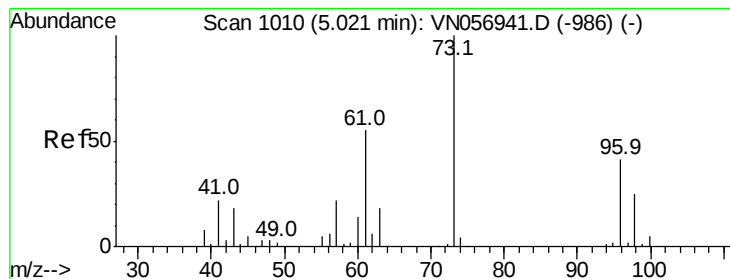
MMDadoda
8/2/2019 9:13:41 AM



#20
Methylene Chloride
Concen: 2.552 ug/l
RT: 4.54 min Scan# 861
Delta R.T. 0.01 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

Tgt Ion: 84 Resp: 15859
Ion Ratio Lower Upper
84 100
49 105.2 95.2 142.8
51 34.2 29.7 44.5
86 70.8 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 2.537 ug/l

RT: 5.02 min Scan# 1010

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion: 96 Resp: 13780

Ion Ratio Lower Upper

96 100

61 141.3 107.5 161.3

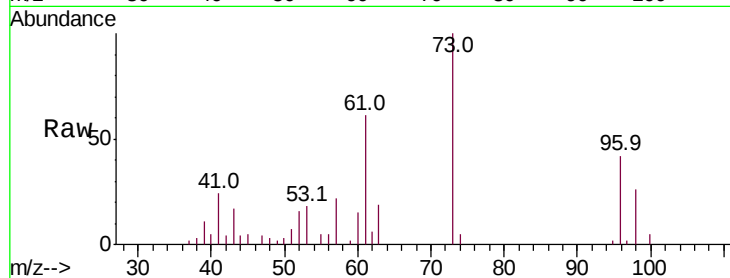
98 61.5 49.9 74.9

Manual Integrations

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MMDadoda

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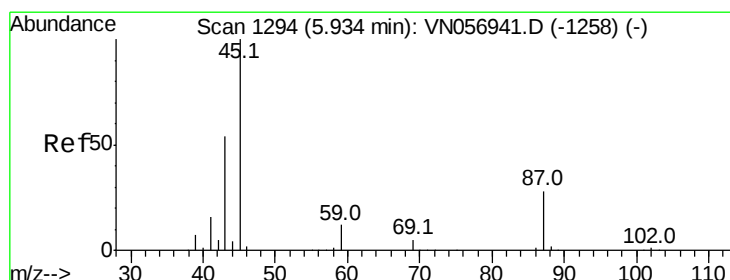
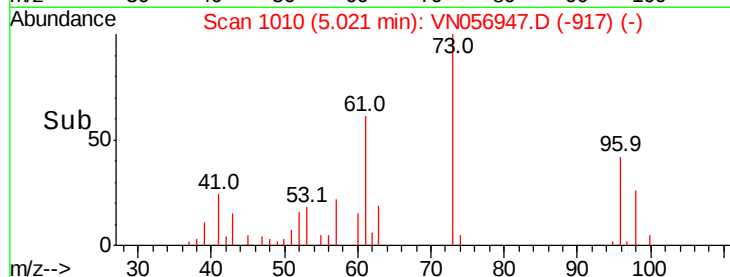
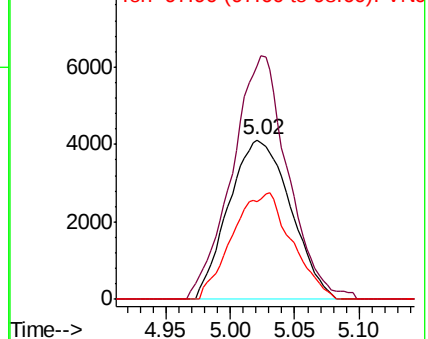


Abundance

Ion 95.90 (95.60 to 96.60): VNC

Ion 60.90 (60.60 to 61.60): VNC

Ion 97.90 (97.60 to 98.60): VNC



#22

Diisopropyl ether

Concen: 2.469 ug/l

RT: 5.94 min Scan# 1296

Delta R.T. 0.01 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Tgt Ion: 45 Resp: 42316

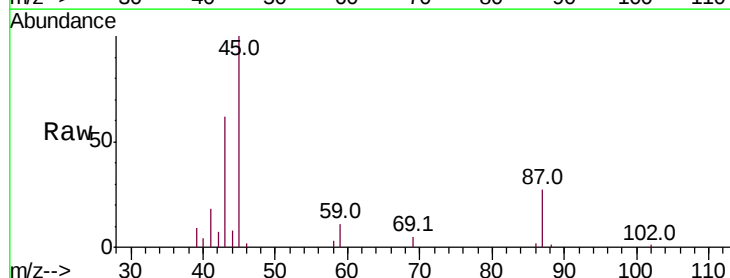
Ion Ratio Lower Upper

45 100

43 57.8 44.7 67.1

87 26.7 23.0 34.6

59 11.0 9.8 14.8



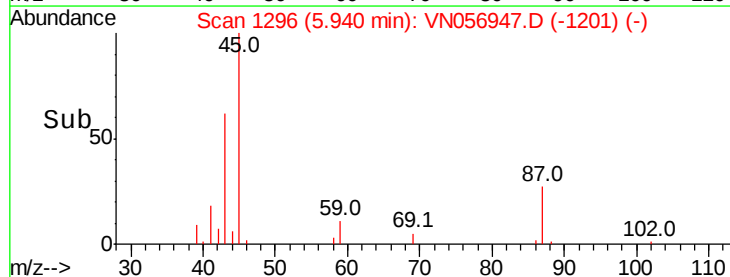
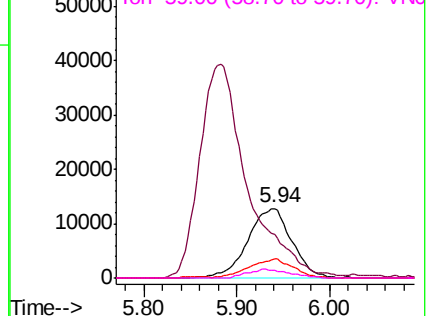
Abundance

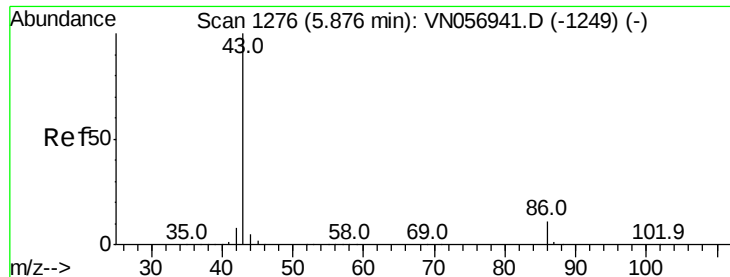
Ion 45.00 (44.70 to 45.70): VNC

Ion 43.00 (42.70 to 43.70): VNC

Ion 87.00 (86.70 to 87.70): VNC

Ion 59.00 (58.70 to 59.70): VNC





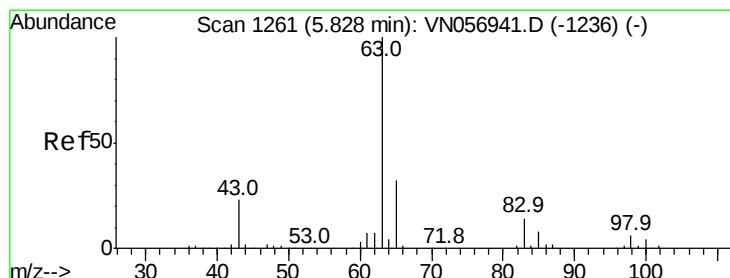
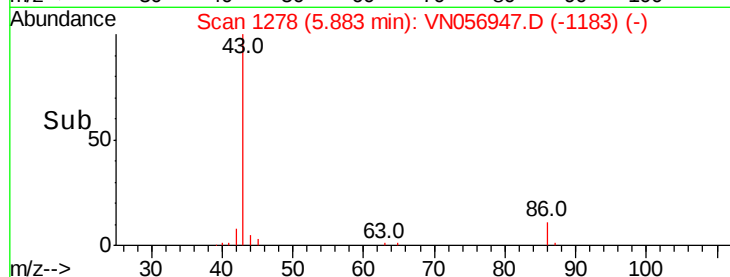
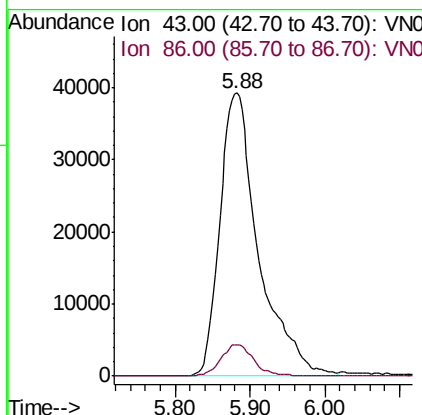
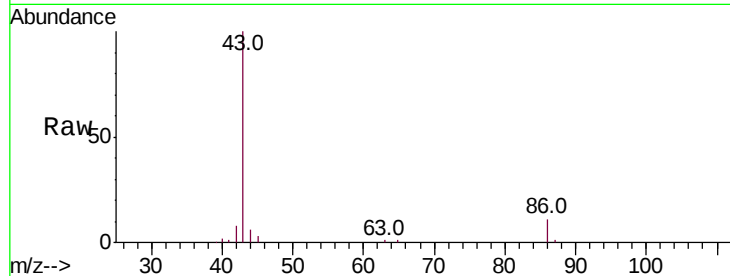
#23
 Vinyl Acetate
 Concen: 11.874 ug/l
 RT: 5.88 min Scan# 1278
 Delta R.T. 0.01 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

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

Tot Ion	Ratio	Lower	Upper
43	100		
86	11.2	8.5	12.7

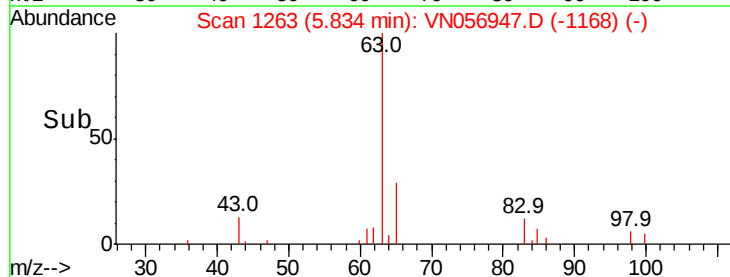
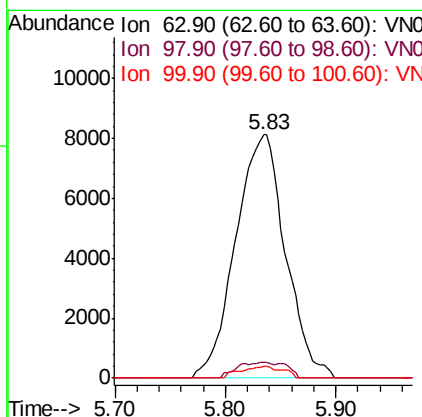
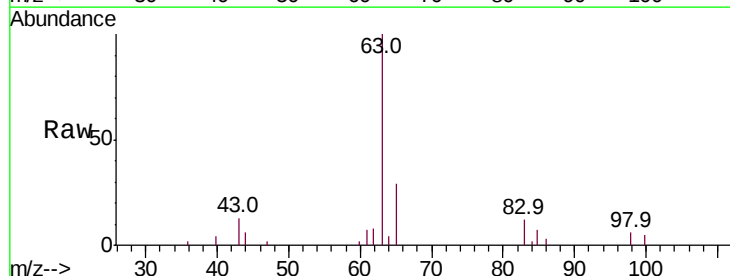
Manual Integrations
 APPROVED

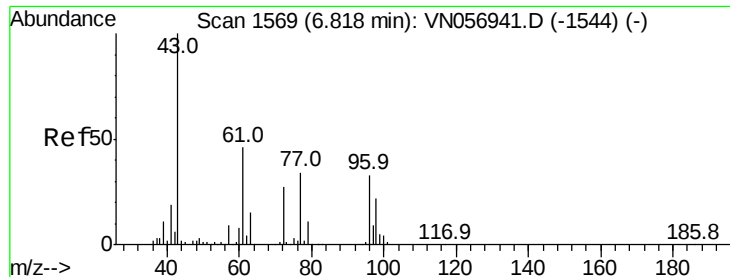
MMDadoda
 8/2/2019 9:13:41 AM



#24
 1,1-Dichloroethane
 Concen: 2.513 ug/l
 RT: 5.83 min Scan# 1263
 Delta R.T. 0.01 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

Tgt Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.2	9.6
100	4.8	2.1	6.3





#25

2-Butanone

Concen: 12.180 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.01 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion: 43 Resp: 37265

Ion Ratio Lower Upper

43 100

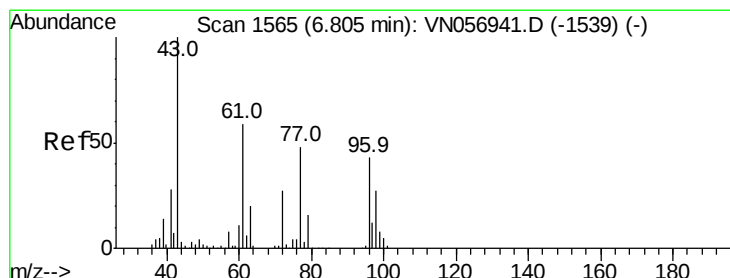
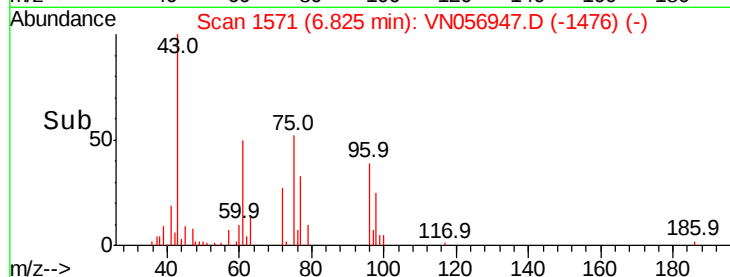
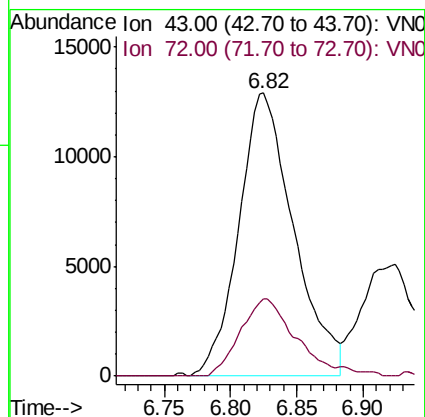
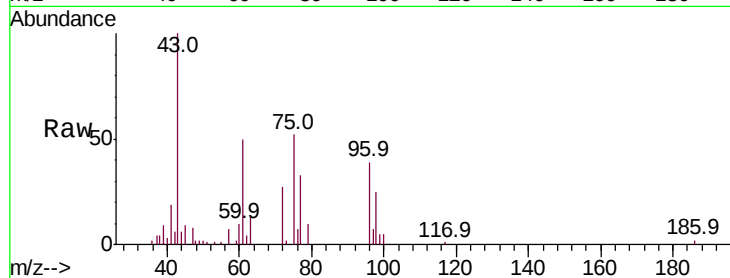
72 27.3 21.5 32.3

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 2.335 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VN056947.D

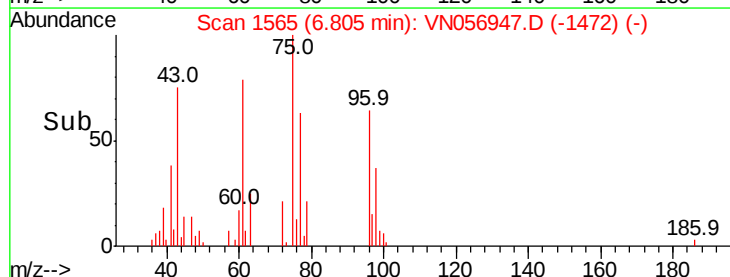
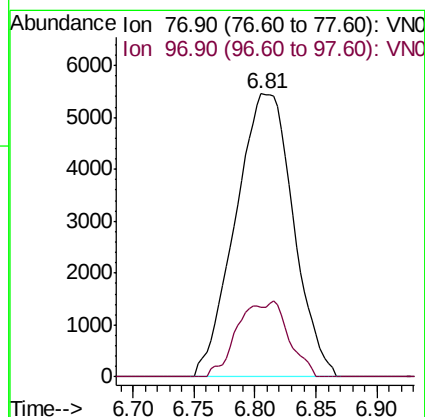
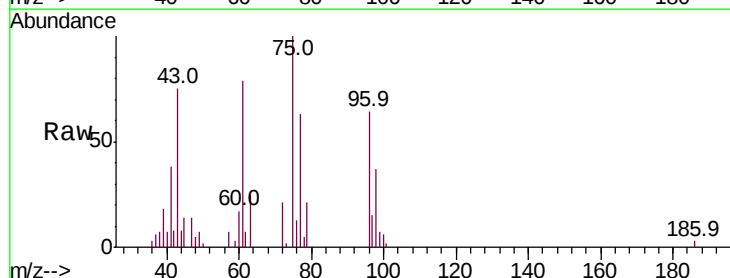
Acq: 26 Jul 2019 17:27

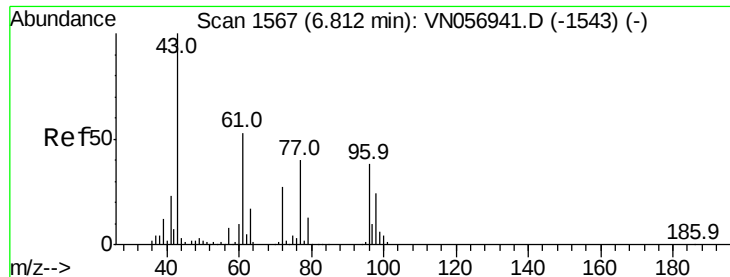
Tgt Ion: 77 Resp: 17958

Ion Ratio Lower Upper

77 100

97 12.1 12.2 36.6#





#27

cis-1,2-Dichloroethene

Concen: 2.596 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.00 min

Lab File: VN056947.D

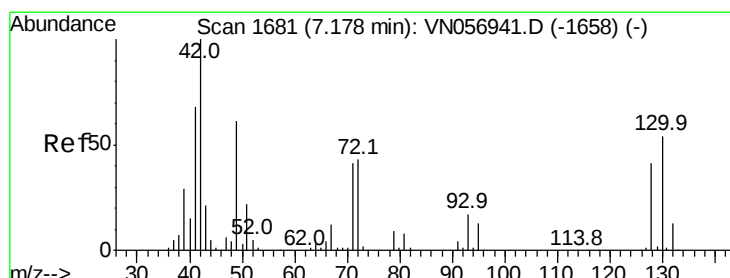
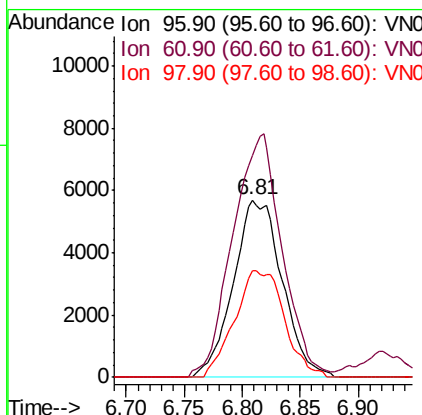
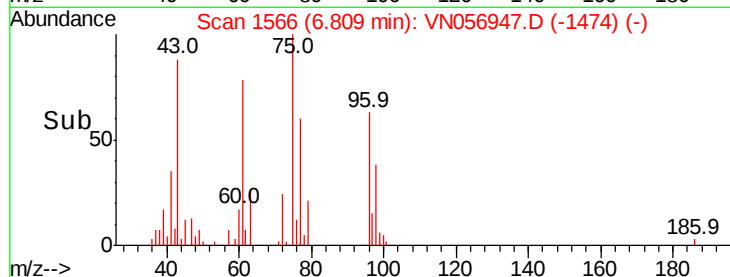
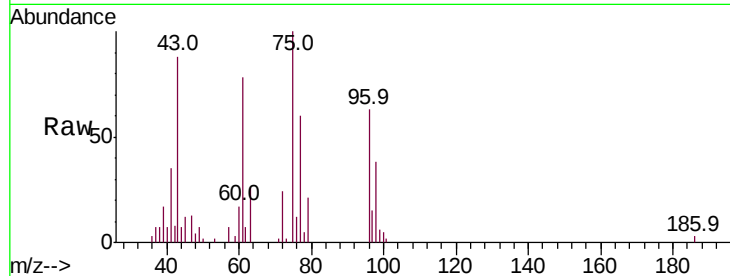
Acq: 26 Jul 2019 17:27

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

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	138.8	0.0	277.2	
98	61.1	0.0	128.4	

Manual Integrations
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#28

Bromochloromethane

Concen: 2.519 ug/l

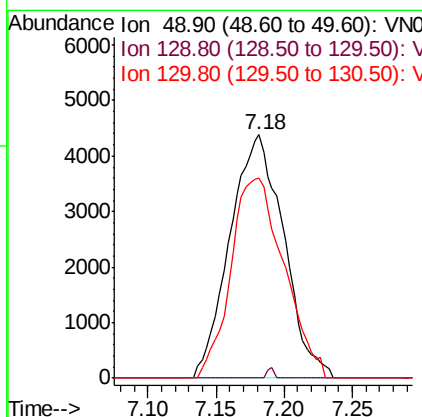
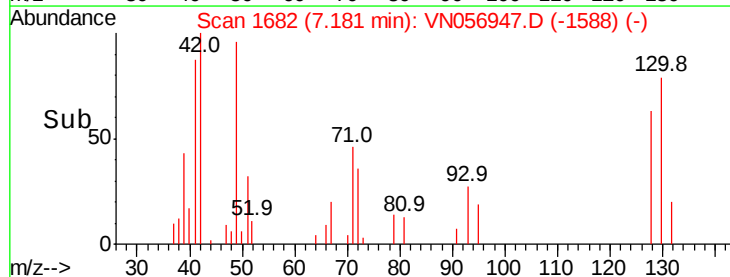
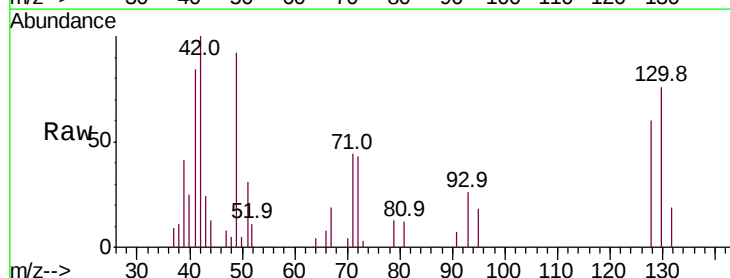
RT: 7.18 min Scan# 1682

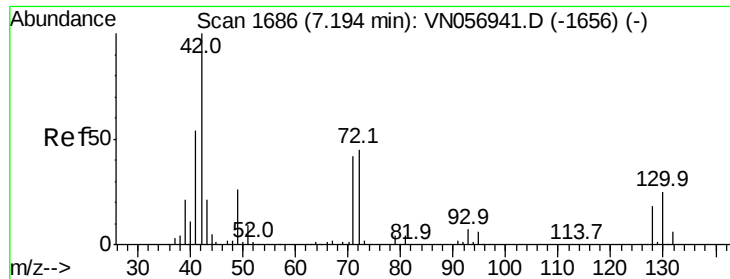
Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	0.6	0.0	4.6	
130	81.3	69.0	103.4	





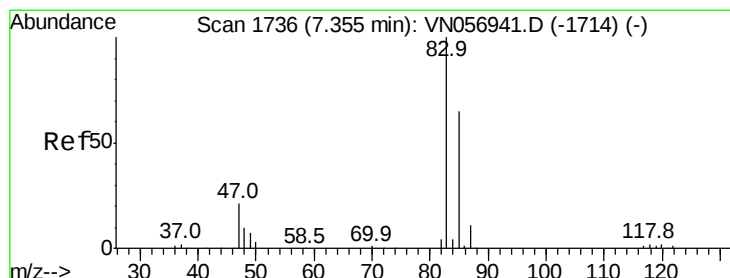
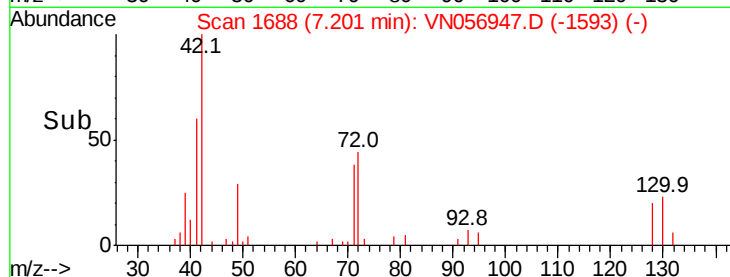
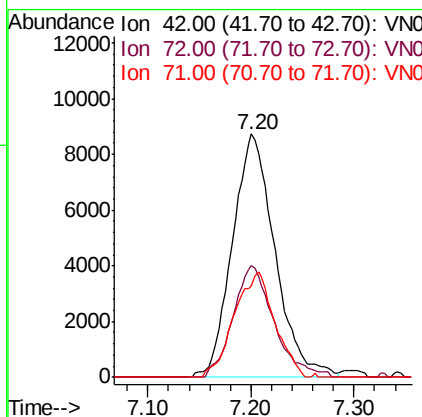
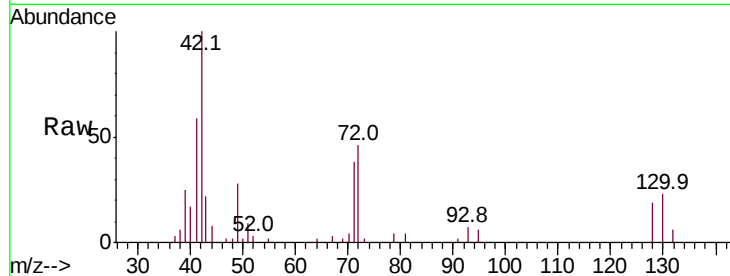
#29
Tetrahydrofuran
Concen: 12.567 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.01 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

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

Tot Ion	Ratio	Resp	Lower	Upper
42	100	25085		
72	44.0		35.6	53.4
71	41.1		33.5	50.3

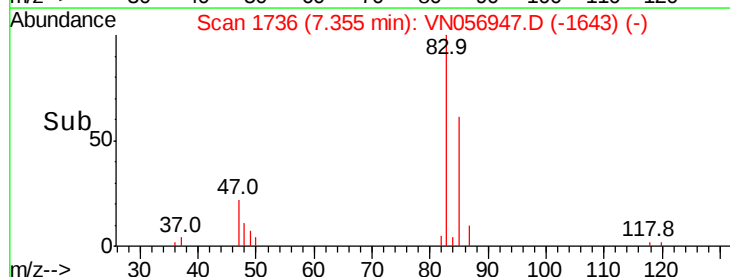
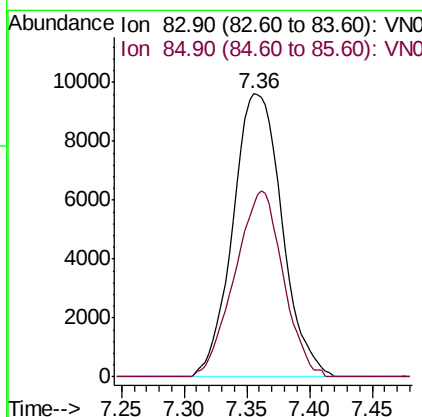
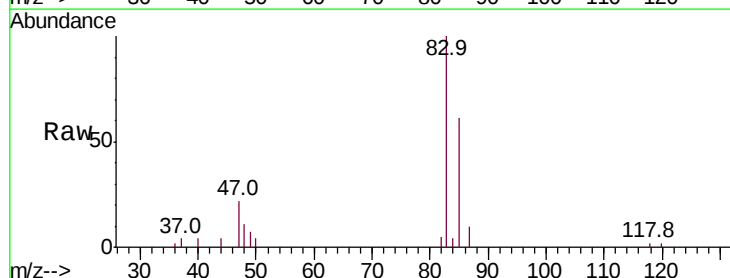
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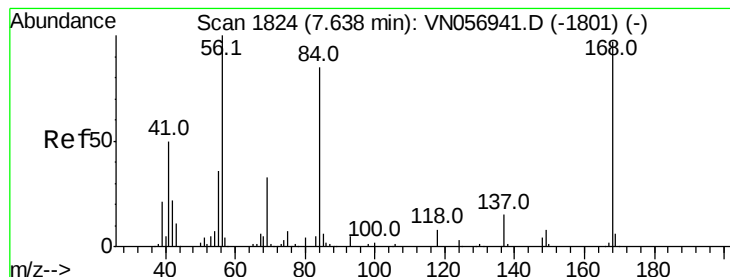
MMDadoda
8/2/2019 9:13:41 AM



#30
Chloroform
Concen: 2.537 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	26236		
85	60.8		52.2	78.2





#31

Cyclohexane

Concen: 3.073 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion: 56 Resp: 30076

Ion Ratio Lower Upper

56 100

69 84.7 26.2 39.2#

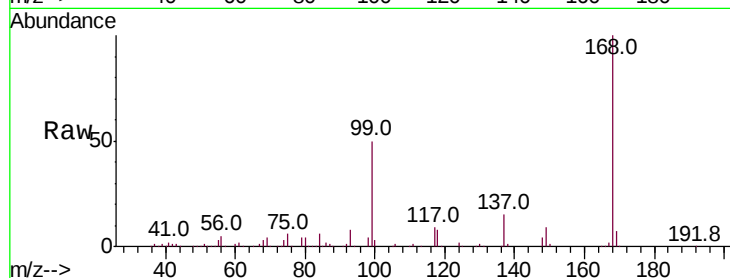
84 111.6 68.2 102.2#

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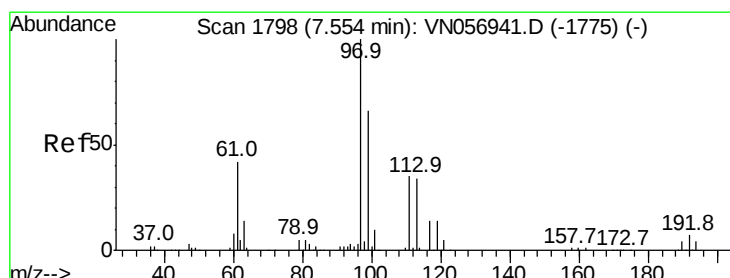
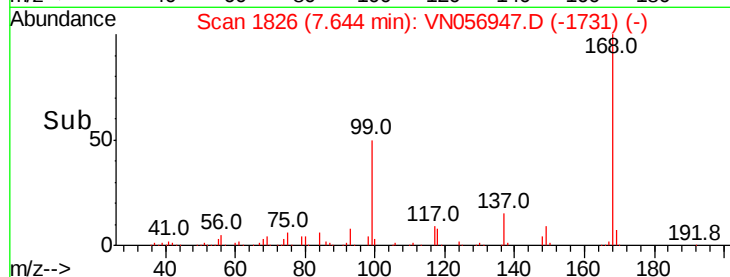
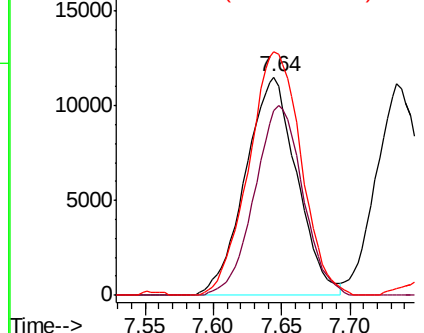
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Abundance Ion 56.00 (55.70 to 56.70): VN056947.D (-1731) (-)

Ion 69.00 (68.70 to 69.70): VN056947.D (-1731) (-)

Ion 84.00 (83.70 to 84.70): VN056947.D (-1731) (-)



#32

1,1,1-Trichloroethane

Concen: 2.460 ug/l

RT: 7.55 min Scan# 1797

Delta R.T. -0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

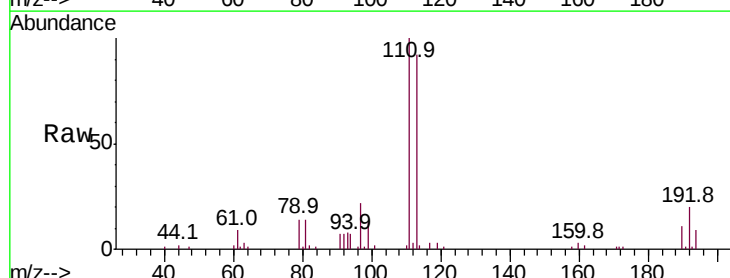
Tgt Ion: 97 Resp: 20297

Ion Ratio Lower Upper

97 100

99 61.2 52.3 78.5

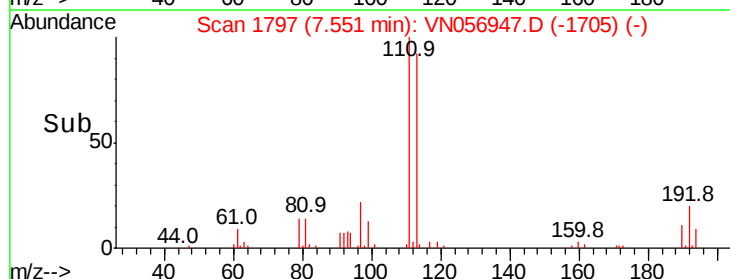
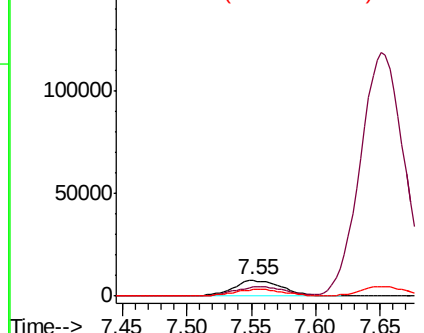
61 43.1 33.9 50.9

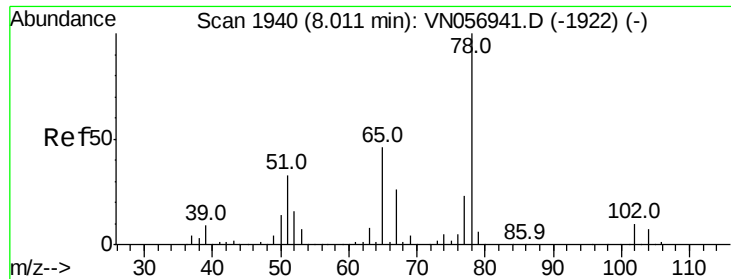


Abundance Ion 96.90 (96.60 to 97.60): VN056947.D (-1705) (-)

Ion 98.90 (98.60 to 99.60): VN056947.D (-1705) (-)

Ion 60.90 (60.60 to 61.60): VN056947.D (-1705) (-)





#33

1,2-Dichloroethane-d4

Concen: 51.410 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion: 65 Resp: 306180

Ion Ratio Lower Upper

65 100

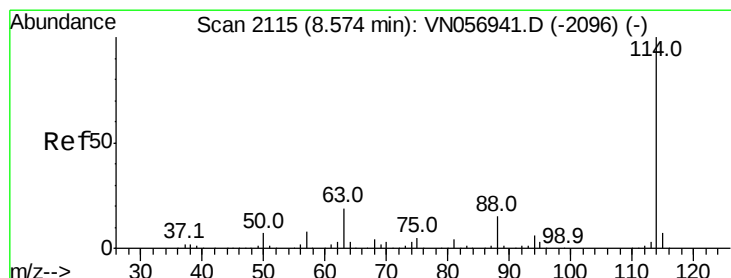
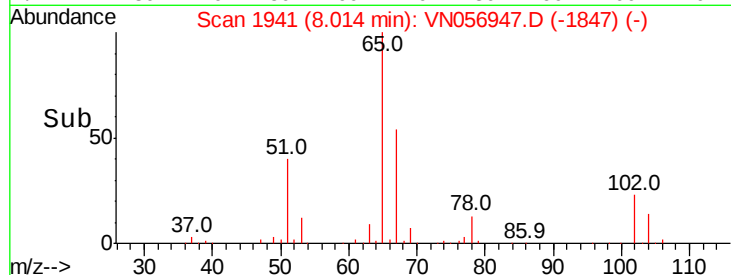
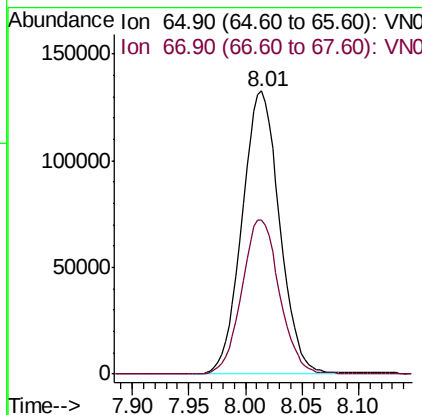
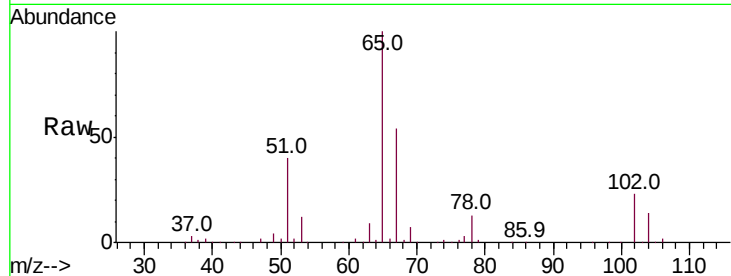
67 54.8 0.0 112.0

Manual Integrations

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

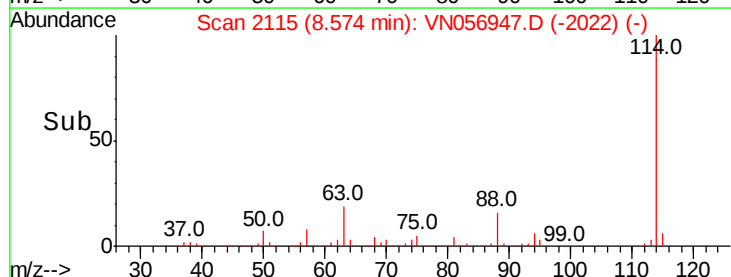
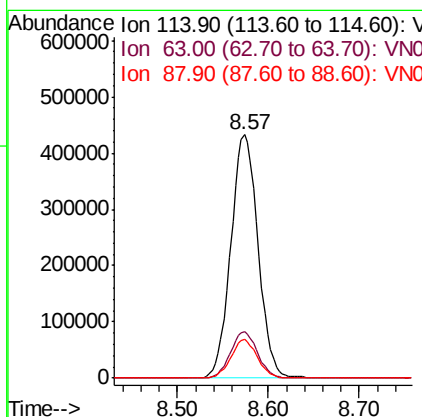
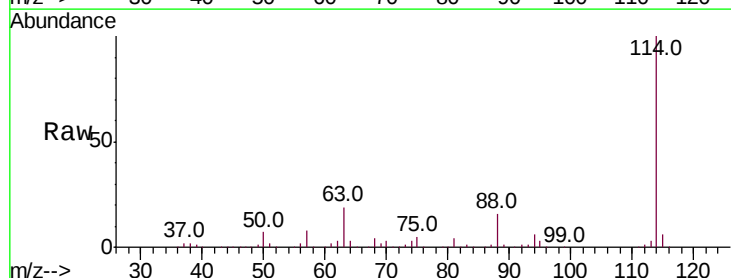
Tgt Ion: 114 Resp: 899085

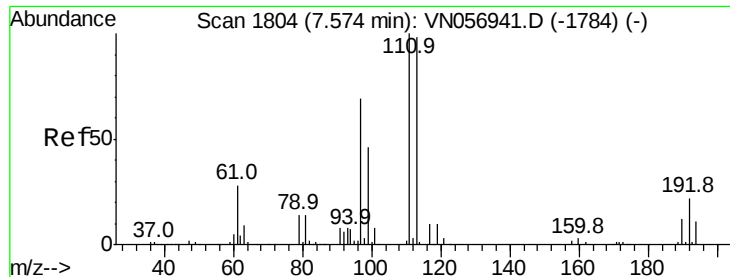
Ion Ratio Lower Upper

114 100

63 18.8 0.0 38.0

88 15.7 0.0 30.0





#35

Dibromofluoromethane

Concen: 47.974 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

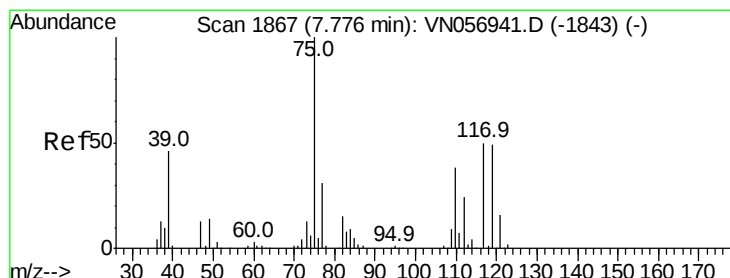
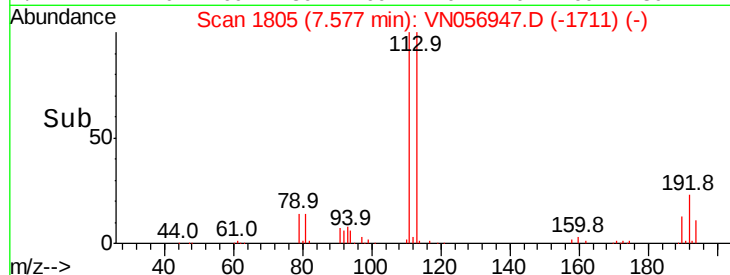
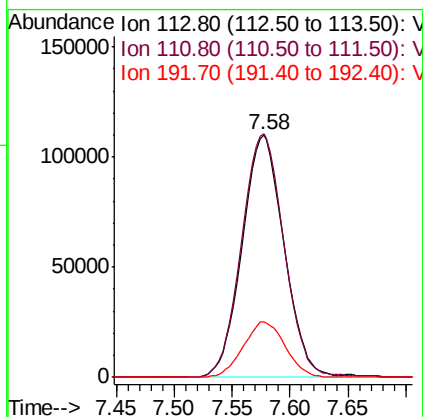
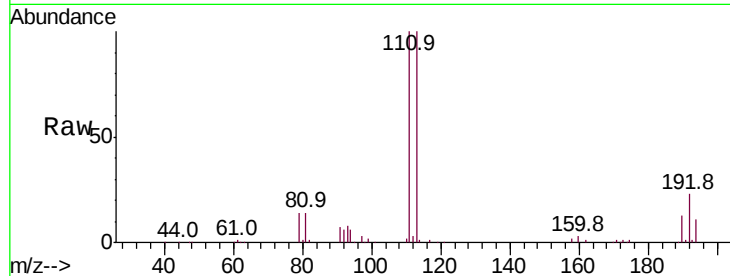
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion:	113	Resp:	276119
Ion Ratio	Lower	Upper	
113	100		
111	102.7	82.0	123.0
192	23.1	18.4	27.6

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#36

1,1-Dichloropropene

Concen: 2.448 ug/l

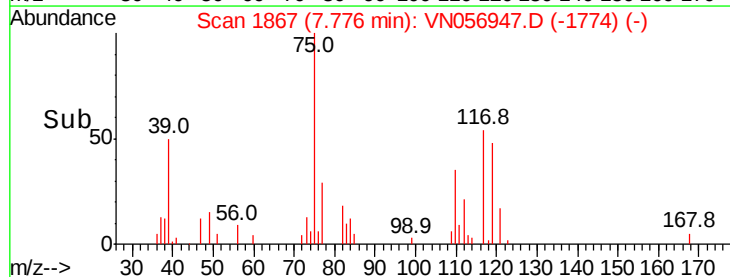
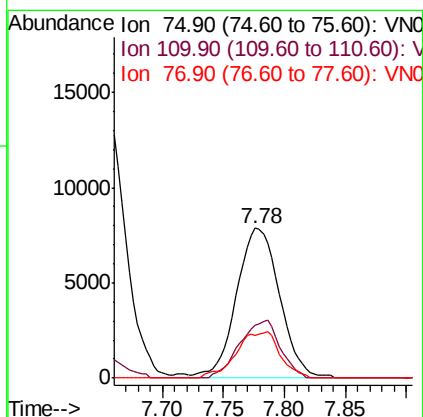
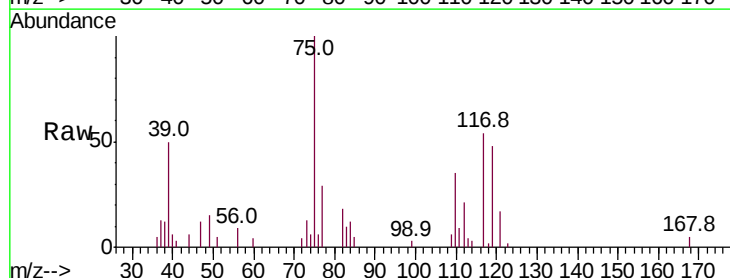
RT: 7.78 min Scan# 1867

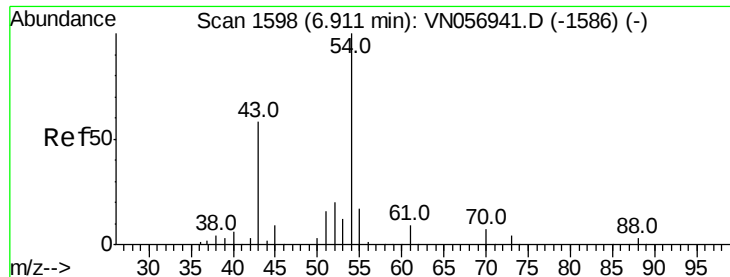
Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Tgt Ion:	75	Resp:	19370
Ion Ratio	Lower	Upper	
75	100		
110	35.9	18.6	55.8
77	31.2	25.2	37.8





#37

Ethyl Acetate

Concen: 2.384 ug/l

RT: 6.92 min Scan# 1602

Delta R.T. 0.01 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

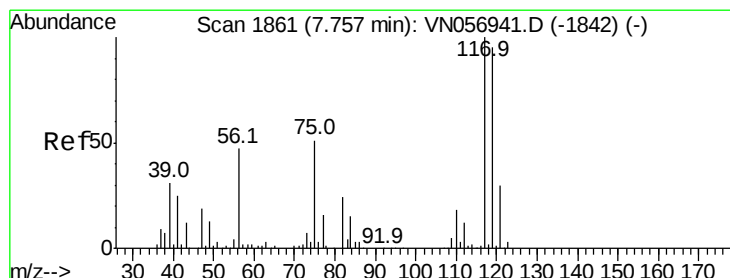
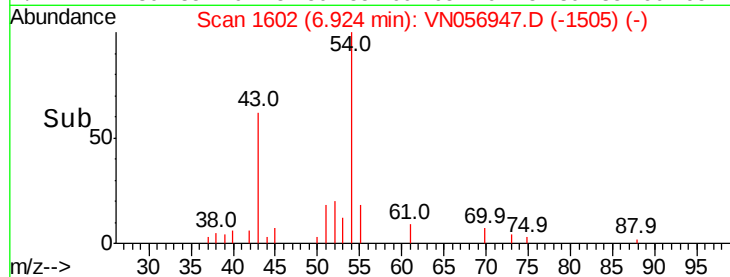
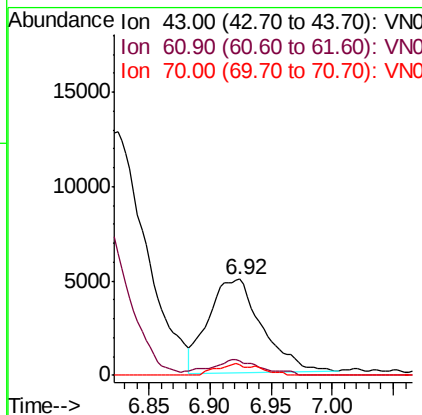
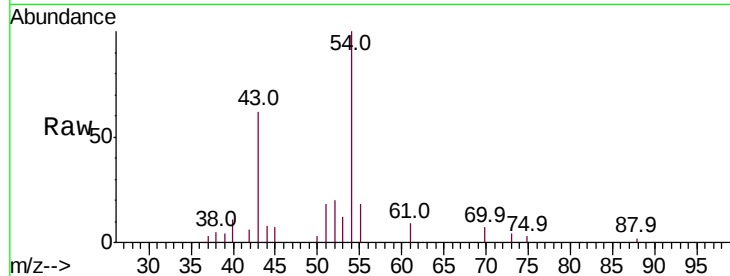
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion:	43	Resp:	15107
Ion Ratio	Lower	Upper	
43	100		
61	10.0	11.8	17.6#
70	6.7	8.5	12.7#

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#38

Carbon Tetrachloride

Concen: 2.296 ug/l

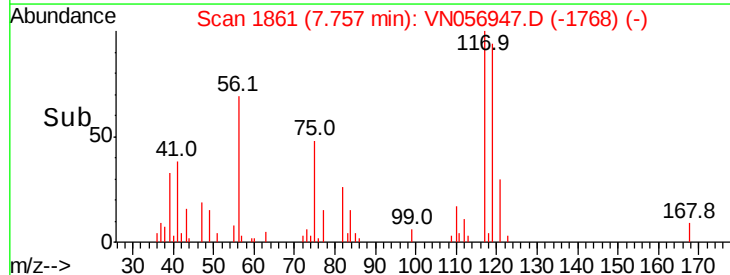
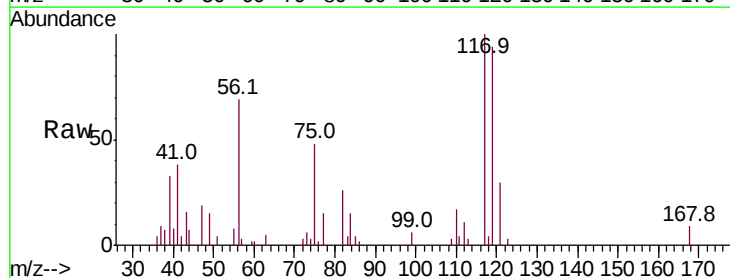
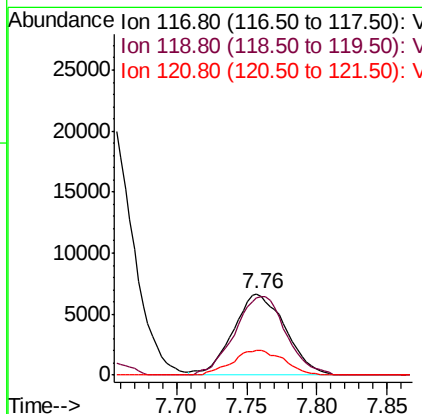
RT: 7.76 min Scan# 1861

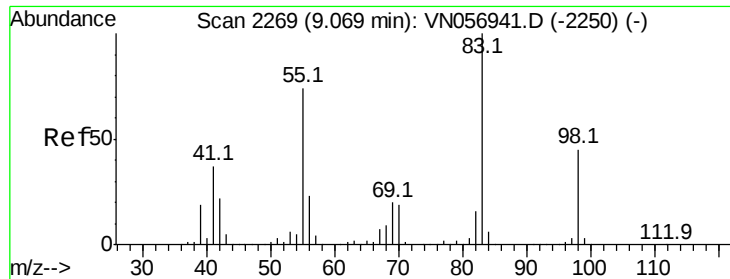
Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Tgt Ion:	117	Resp:	17181
Ion Ratio	Lower	Upper	
117	100		
119	94.4	75.3	112.9
121	30.3	24.2	36.4





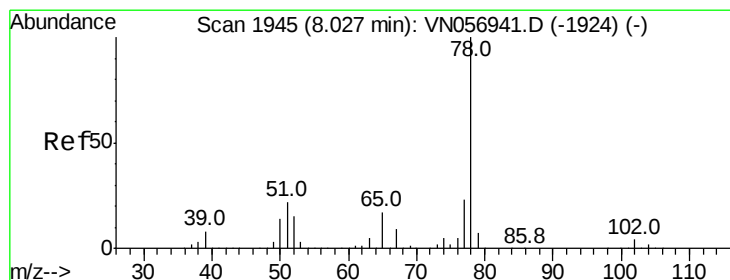
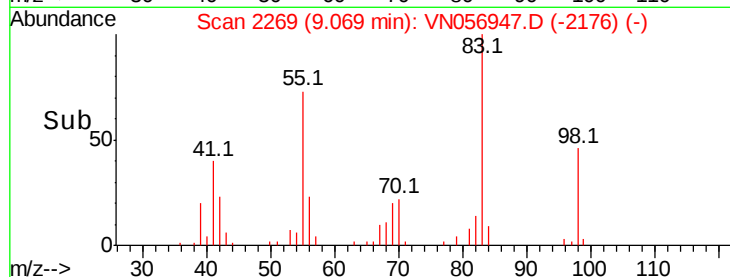
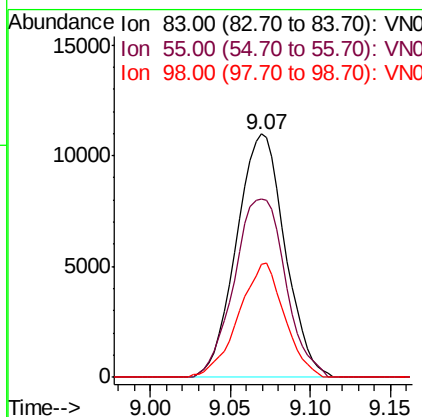
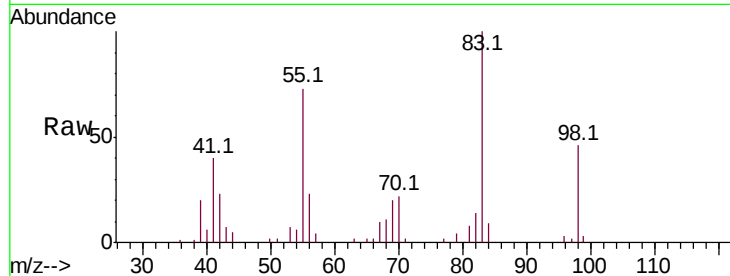
#39
Methvlcvclohexane
Concen: 2.249 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

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

Tot Ion	Ratio	Lower	Upper
83	100		
55	73.4	59.0	88.6
98	46.2	36.2	54.4

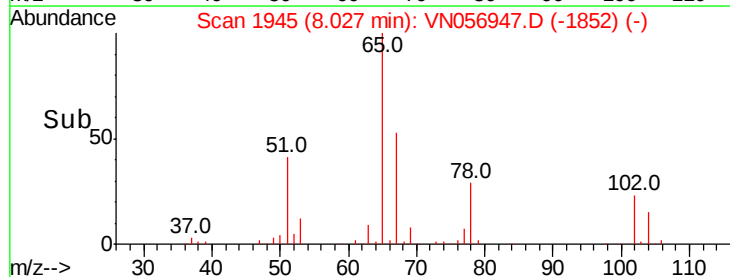
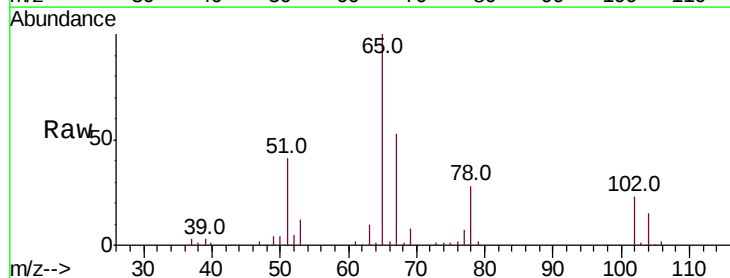
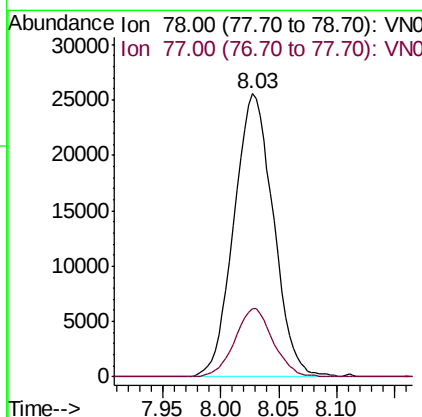
Manual Integrations
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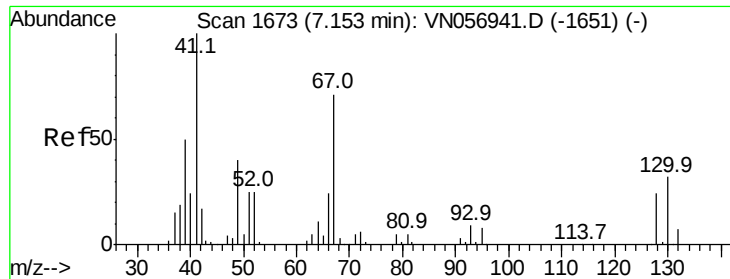
MMDadoda
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#40
Benzene
Concen: 2.475 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.3	18.3	27.5





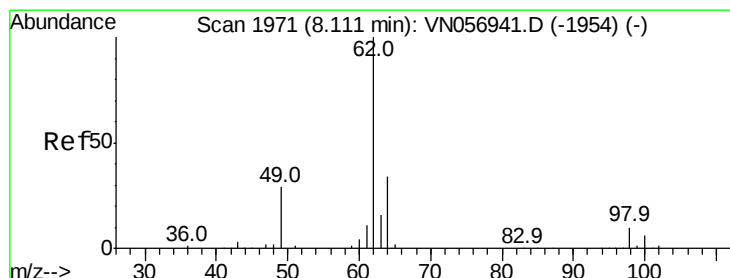
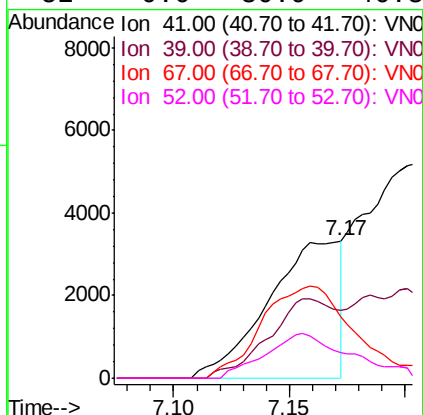
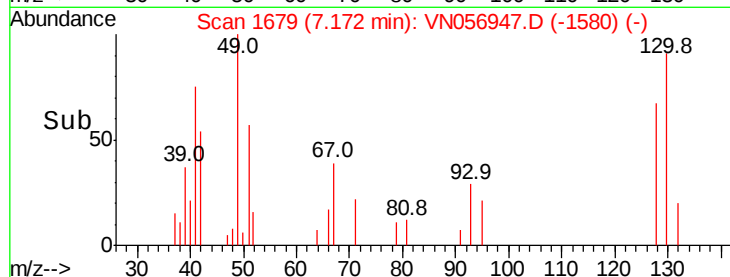
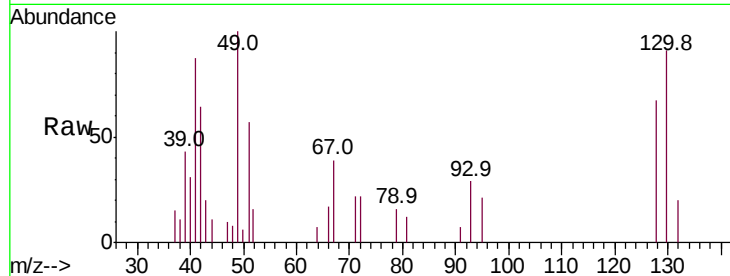
#41
Methacrylonitrile
Concen: 2.455 ug/l m
RT: 7.17 min Scan# 1679
Delta R.T. 0.02 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

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

Tot Ion	Ratio	Lower	Upper
41	100		
39	0.0	48.9	73.3#
67	0.0	83.4	125.0#
52	0.0	30.9	46.3#

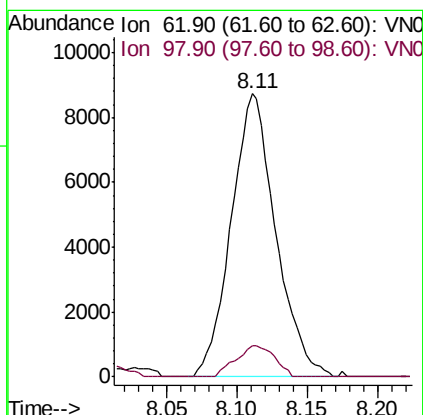
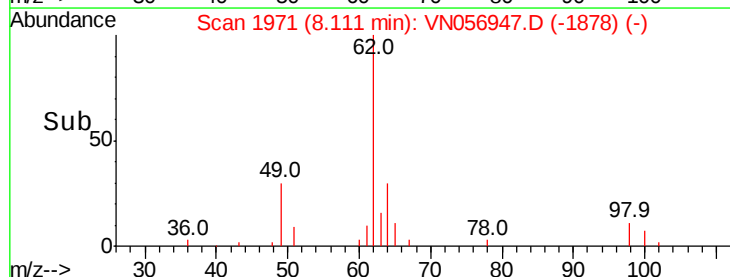
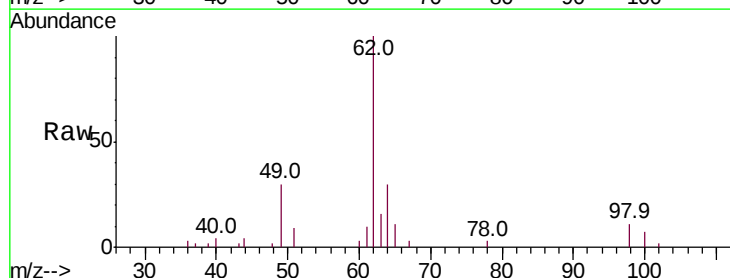
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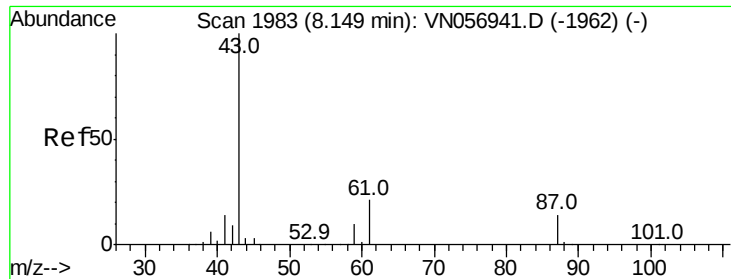
MMDadoda
8/2/2019 9:13:41 AM



#42
1,2-Dichloroethane
Concen: 2.521 ug/l
RT: 8.11 min Scan# 1971
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	20.6





#43

Isopropyl Acetate

Concen: 2.373 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

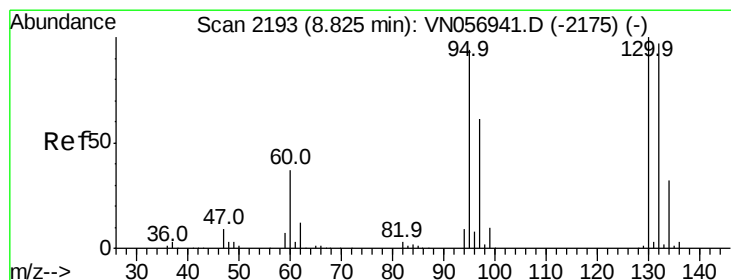
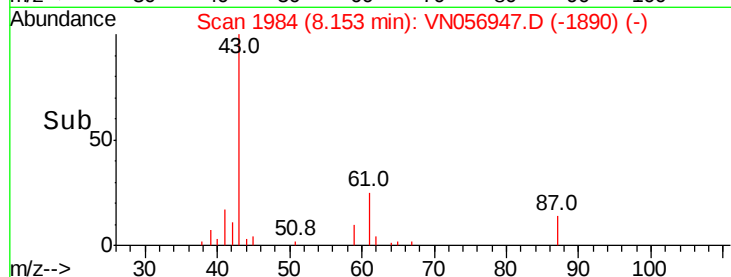
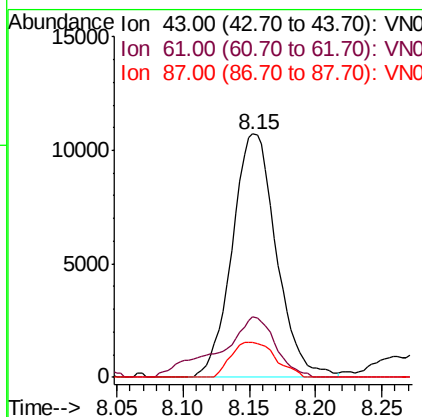
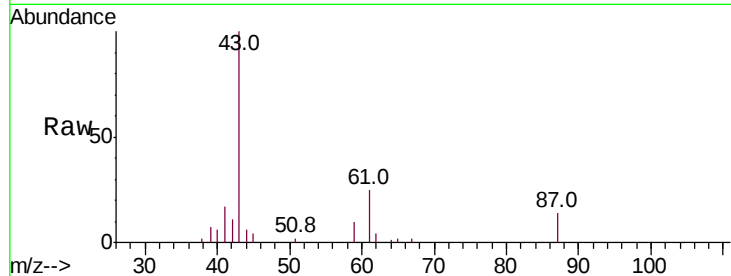
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion:	43	Resp:	24853
Ion	Ratio	Lower	Upper
43	100		
61	31.5	23.0	34.6
87	14.4	11.7	17.5

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#44

Trichloroethene

Concen: 2.361 ug/l

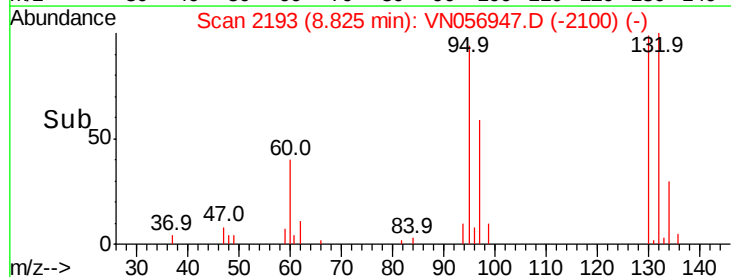
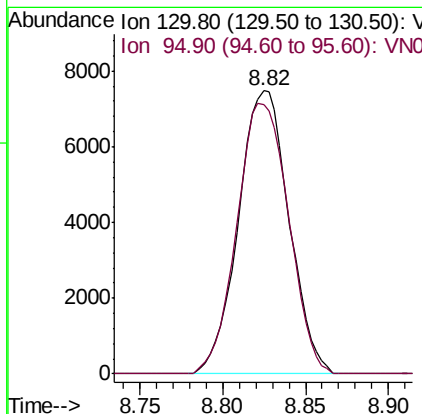
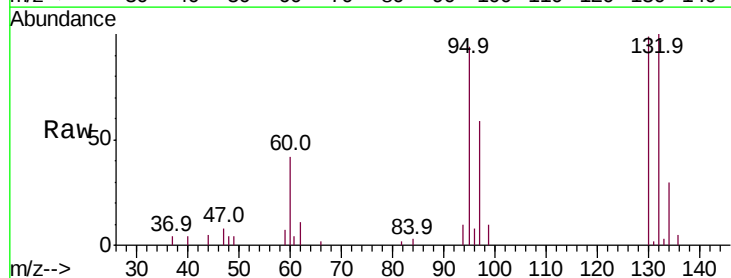
RT: 8.82 min Scan# 2193

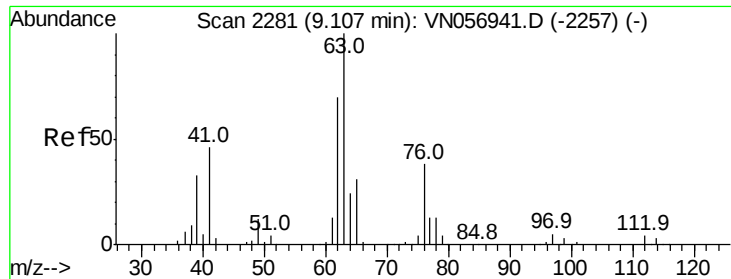
Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Tgt Ion:	130	Resp:	15848
Ion	Ratio	Lower	Upper
130	100		
95	94.9	0.0	189.0





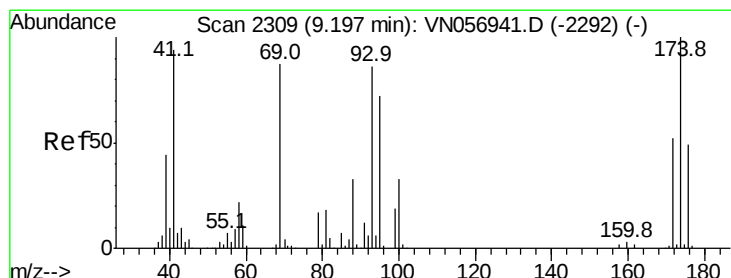
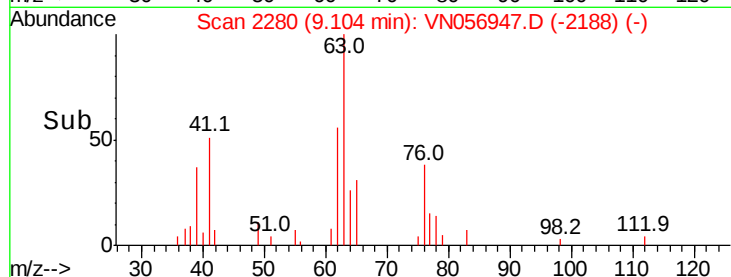
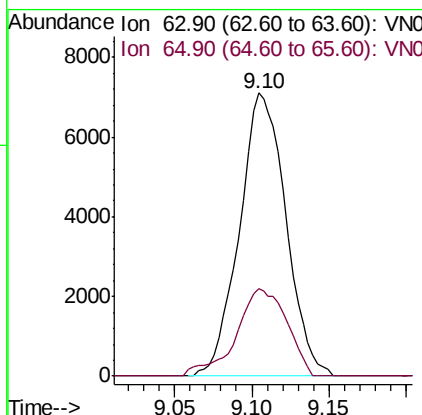
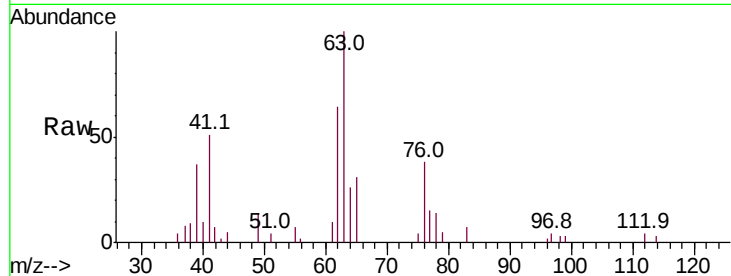
#45
 1,2-Dichloropropane
 Concen: 2.278 ug/l
 RT: 9.10 min Scan# 2280
 Delta R.T. -0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

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

Tot Ion: 63 Resp: 14849
 Ion Ratio Lower Upper
 63 100
 65 31.0 24.8 37.2

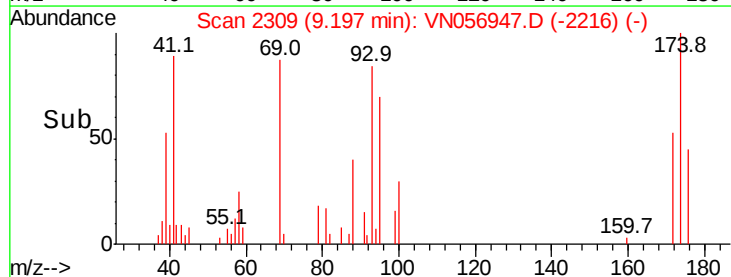
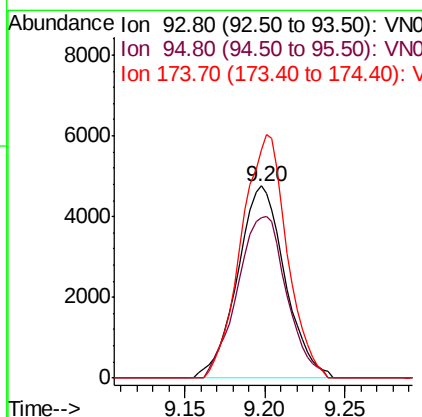
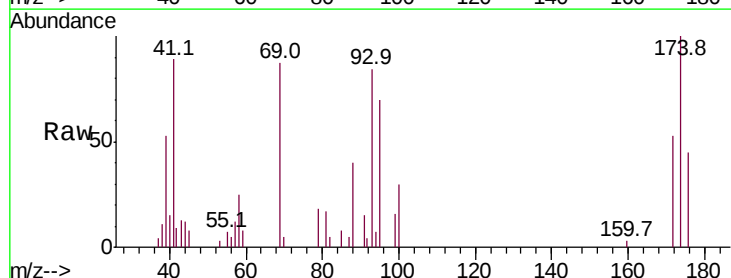
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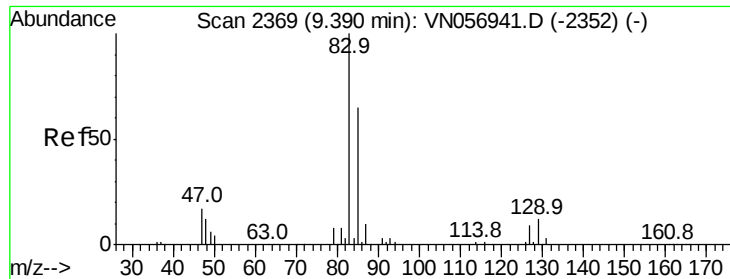
MMDadoda
 8/2/2019 9:13:41 AM



#46
 Dibromomethane
 Concen: 2.451 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. 0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

Tgt Ion: 93 Resp: 9634
 Ion Ratio Lower Upper
 93 100
 95 86.8 67.0 100.6
 174 121.8 92.7 139.1





#47

Bromodichloromethane

Concen: 2.291 ug/l

RT: 9.39 min Scan# 2369

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

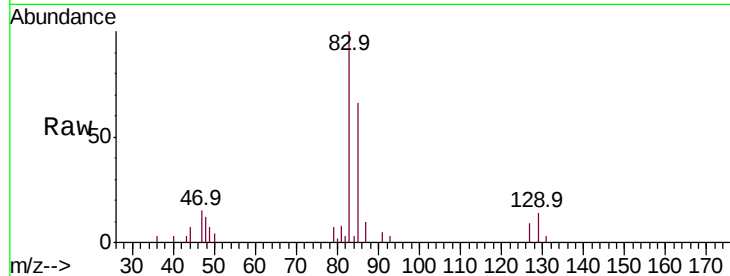
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

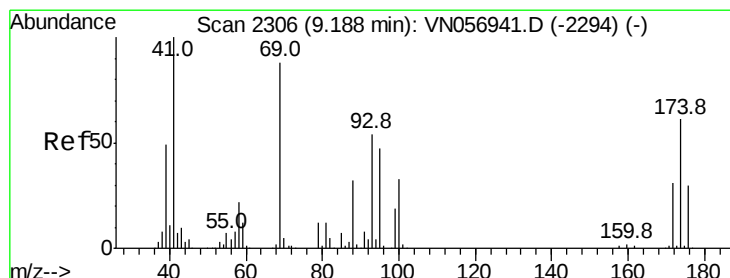
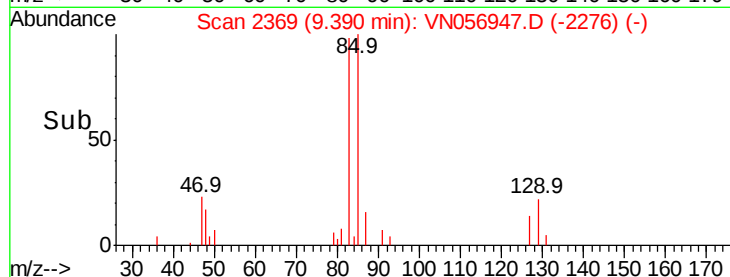
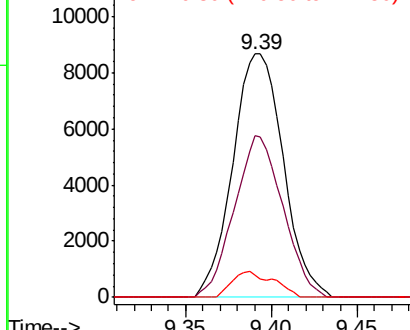
Tot Ion:	83	Resp:	17707
Ion	Ratio	Lower	Upper
83	100		
85	66.3	51.6	77.4
127	9.1	7.3	10.9

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



#48

Methyl methacrylate

Concen: 2.320 ug/l

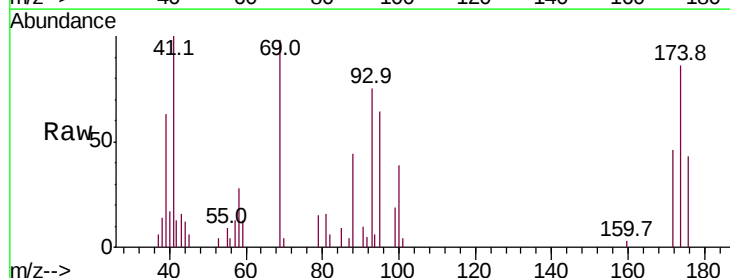
RT: 9.19 min Scan# 2307

Delta R.T. 0.00 min

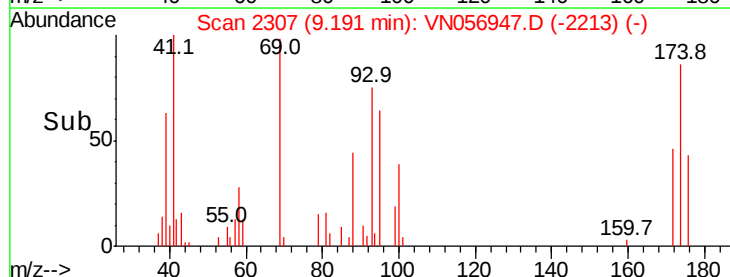
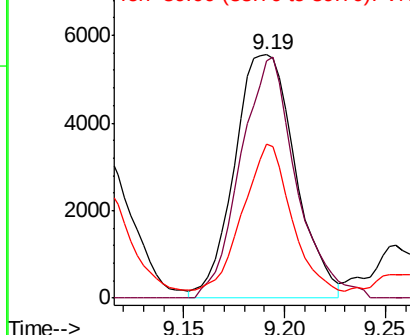
Lab File: VN056947.D

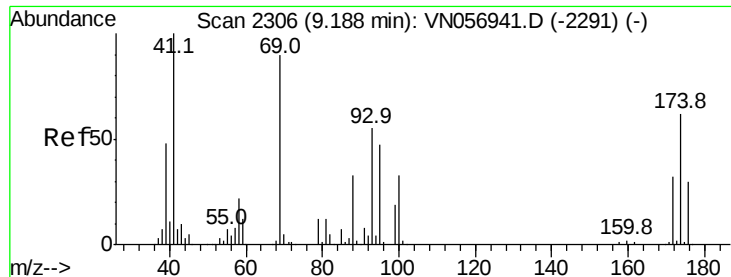
Acq: 26 Jul 2019 17:27

Tgt Ion:	41	Resp:	11728
Ion	Ratio	Lower	Upper
41	100		
69	90.5	73.4	110.0
39	53.8	39.9	59.9



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





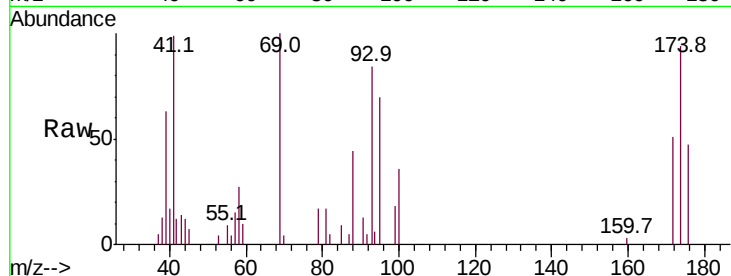
#49
1,4-Dioxane
Concen: 49.003 ug/l
RT: 9.19 min Scan# 2308
Delta R.T. 0.01 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

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

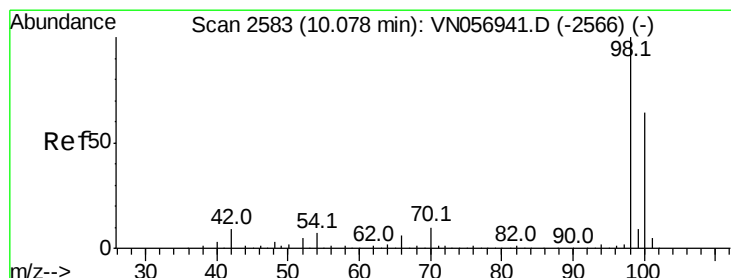
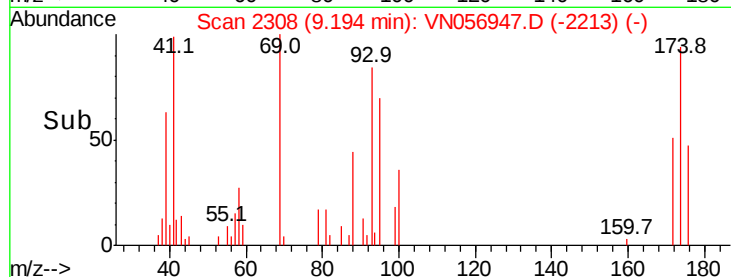
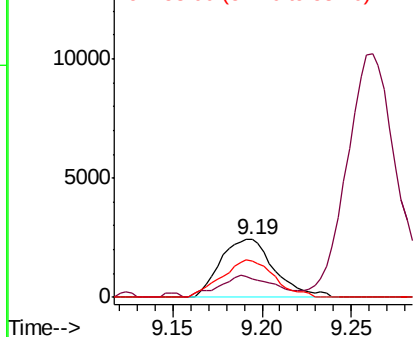
Tot Ion	Ratio	Lower	Upper
88	100		
43	37.8	22.2	33.2#
58	62.6	54.1	81.1

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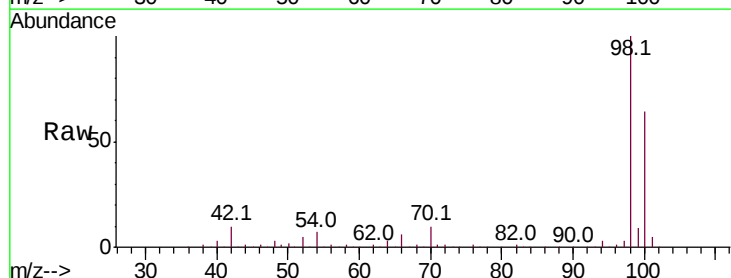


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

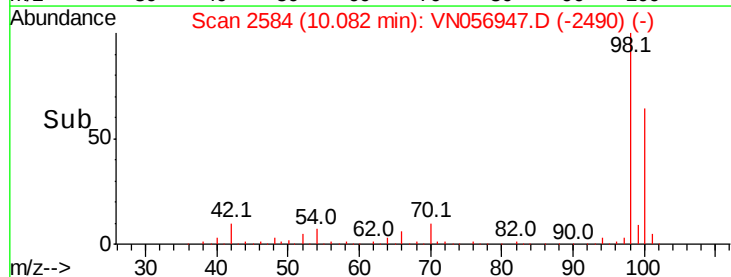
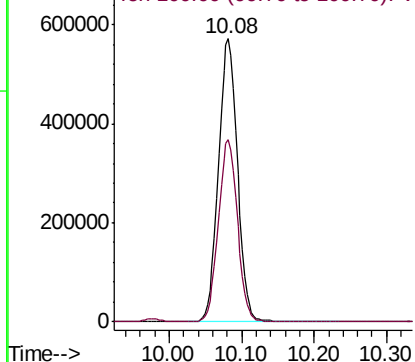


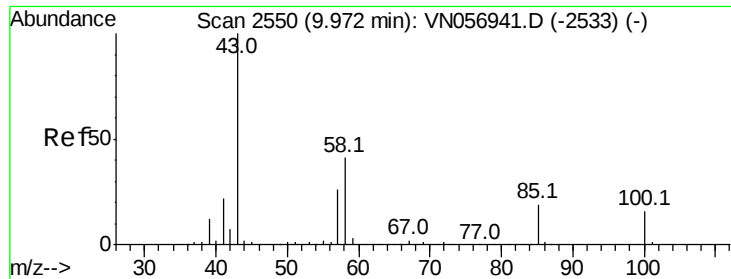
#50
Toluene-d8
Concen: 47.291 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.3	76.9



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 11.871 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion: 43 Resp: 73868

Ion Ratio Lower Upper

43 100

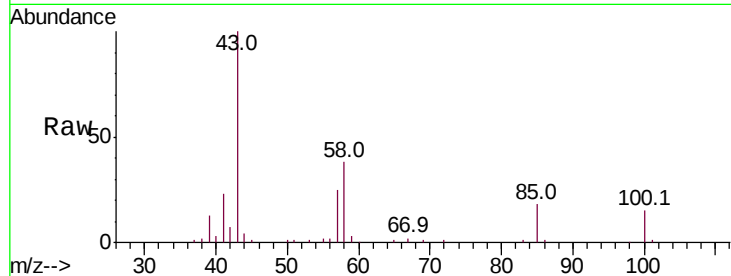
58 39.8 33.1 49.7

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Abundance Ion 43.00 (42.70 to 43.70): VN056941.D (-2533) (-)

Ion 58.00 (57.70 to 58.70): VN056941.D (-2533) (-)

9.98

40000

30000

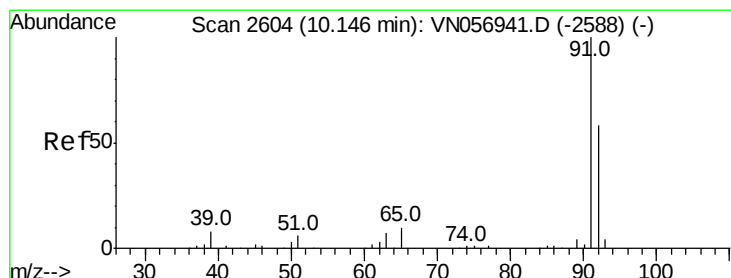
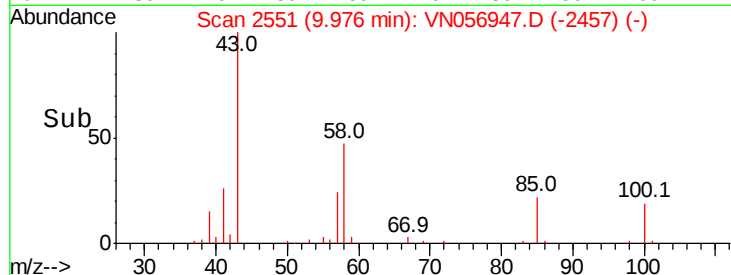
20000

10000

0

9.90 9.95 10.00 10.05

Time-->



#52

Toluene

Concen: 2.368 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN056947.D

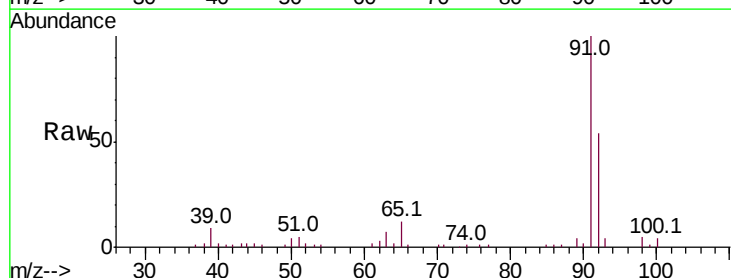
Acq: 26 Jul 2019 17:27

Tgt Ion: 92 Resp: 34672

Ion Ratio Lower Upper

92 100

91 179.2 138.0 207.0



Abundance Ion 92.00 (91.70 to 92.70): VN056941.D (-2588) (-)

Ion 91.00 (90.70 to 91.70): VN056941.D (-2588) (-)

10.15

40000

30000

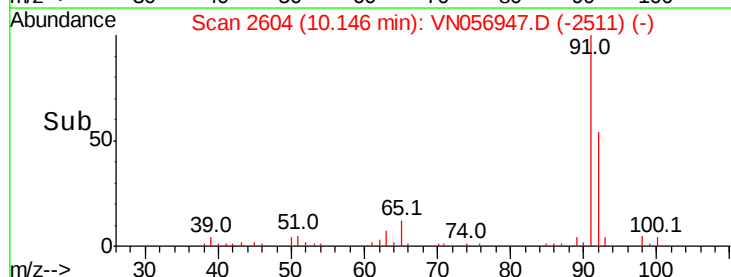
20000

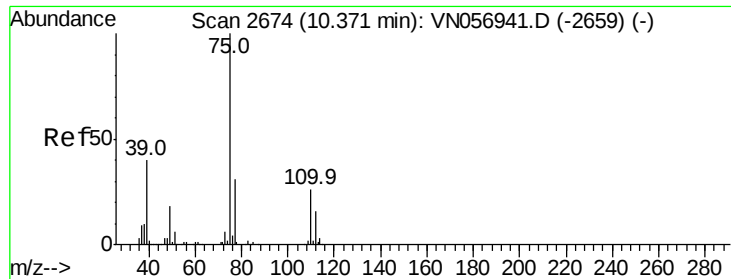
10000

0

10.10 10.15 10.20

Time-->





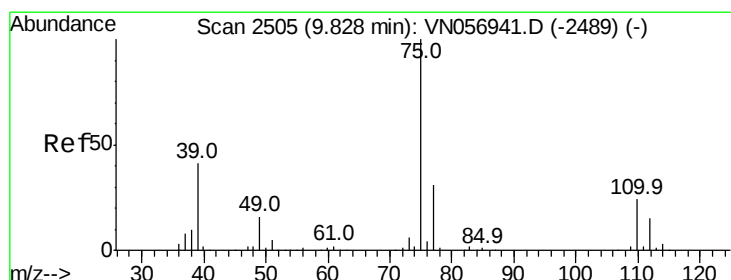
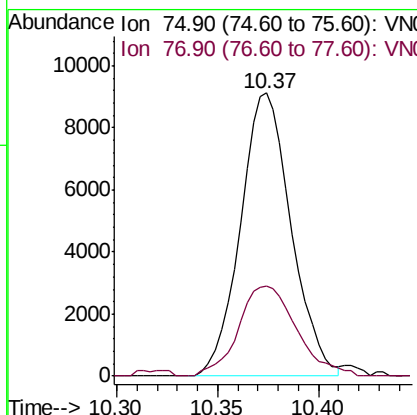
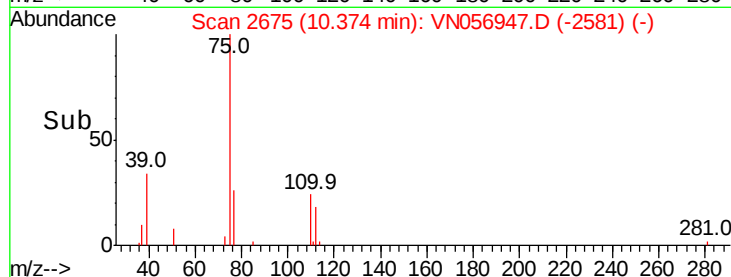
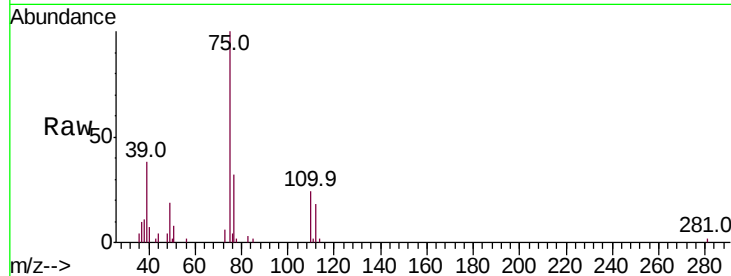
#53
 t-1,3-Dichloropropene
 Concen: 1.997 ug/l
 RT: 10.37 min Scan# 2675
 Delta R.T. 0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

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

Tot Ion: 75 Resp: 16014
 Ion Ratio Lower Upper
 75 100
 77 31.6 25.1 37.7

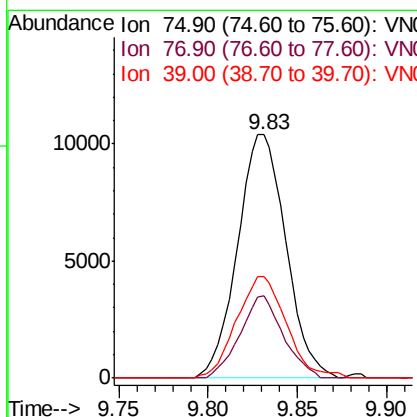
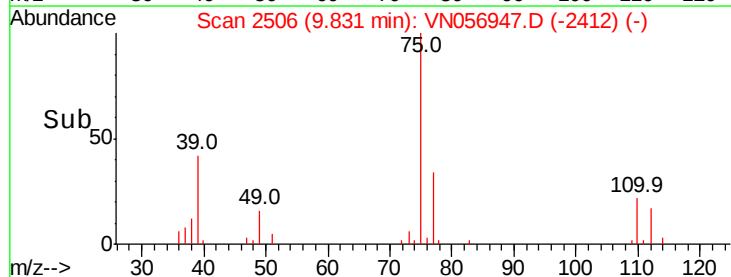
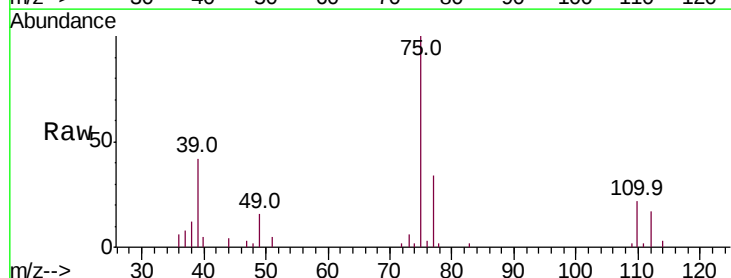
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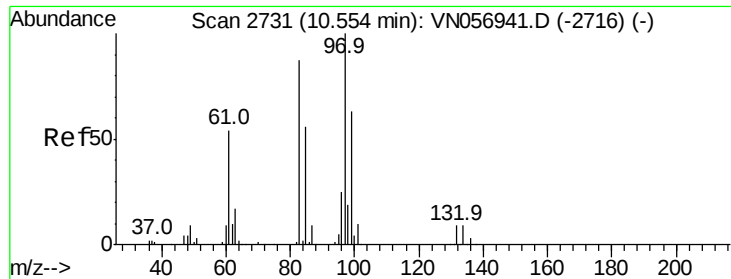
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#54
 cis-1,3-Dichloropropene
 Concen: 2.111 ug/l
 RT: 9.83 min Scan# 2506
 Delta R.T. 0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

Tgt Ion: 75 Resp: 19688
 Ion Ratio Lower Upper
 75 100
 77 33.7 25.0 37.6
 39 42.0 32.6 49.0





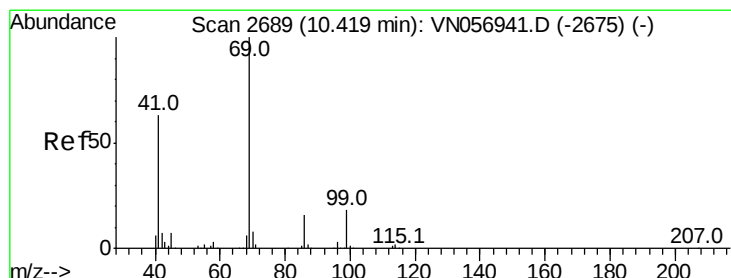
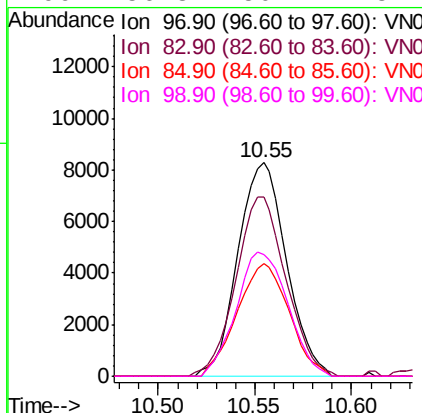
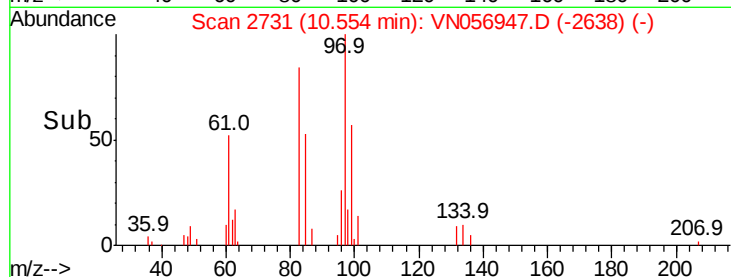
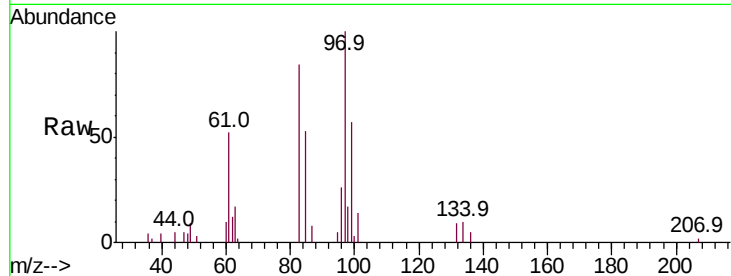
#55
 1,1,2-Trichloroethane
 Concen: 2.464 ug/l
 RT: 10.55 min Scan# 2731
 Delta R.T. 0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

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

Tot Ion	97	Resp	14464
Ion	Ratio	Lower	Upper
97	100		
83	83.7	69.4	104.0
85	52.9	44.7	67.1
99	56.8	50.1	75.1

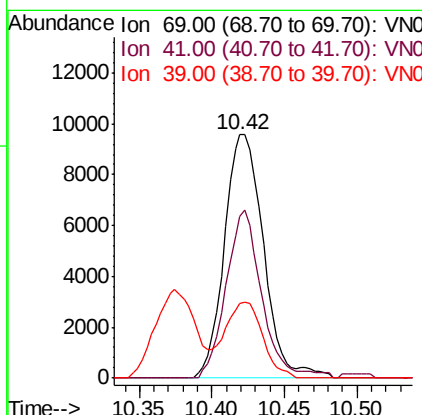
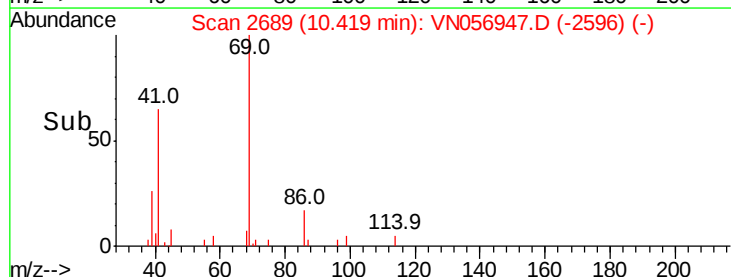
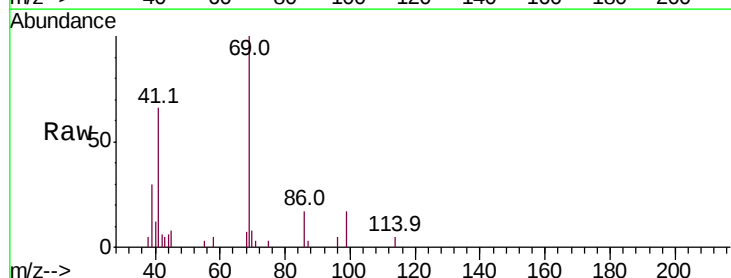
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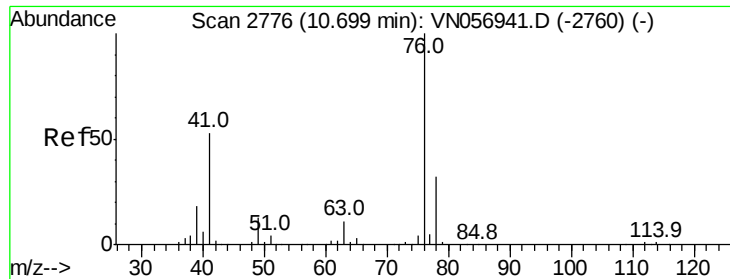
MMDadoda
 8/2/2019 9:13:41 AM



#56
 Ethyl methacrylate
 Concen: 2.268 ug/l
 RT: 10.42 min Scan# 2689
 Delta R.T. 0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

Tgt Ion	69	Resp	17891
Ion	Ratio	Lower	Upper
69	100		
41	63.0	49.2	73.8
39	30.0	23.1	34.7





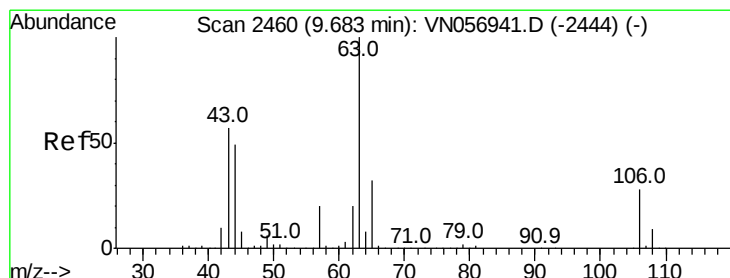
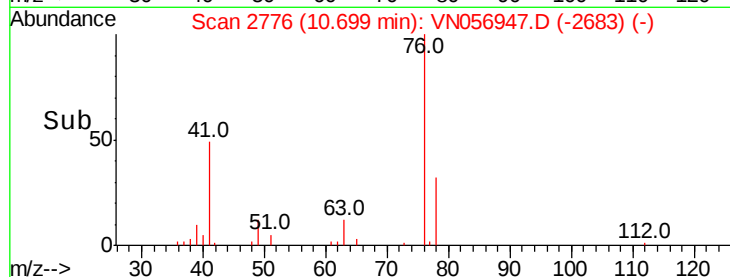
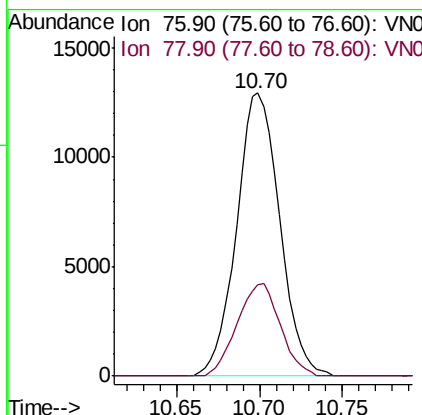
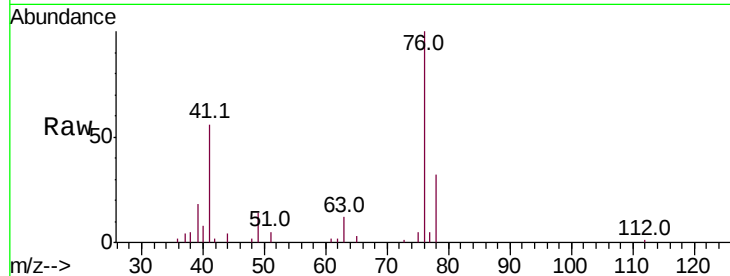
#57
 1,3-Dichloropropane
 Concen: 2.400 ug/l
 RT: 10.70 min Scan# 2776
 Delta R.T. 0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

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

Tot Ion: 76 Resp: 23368
 Ion Ratio Lower Upper
 76 100
 78 32.5 25.9 38.9

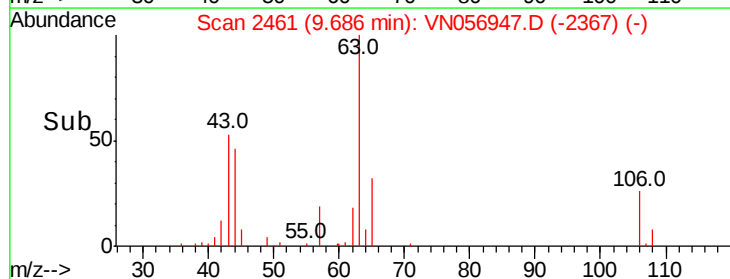
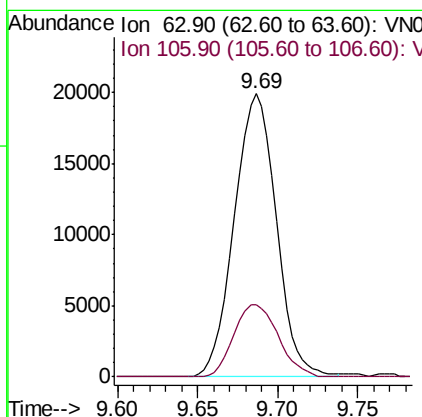
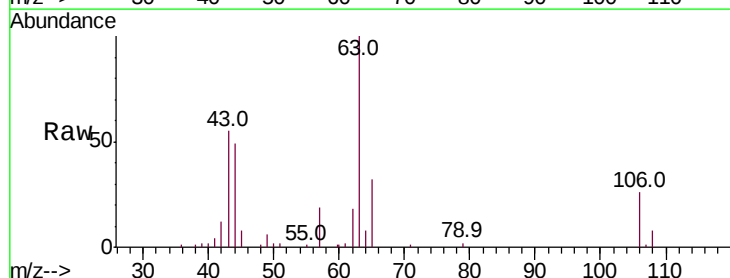
Manual Integrations
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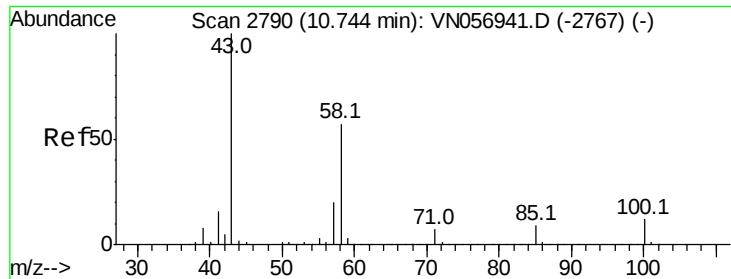
MMDadoda
 8/2/2019 9:13:41 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 10.143 ug/l
 RT: 9.69 min Scan# 2461
 Delta R.T. 0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

Tgt Ion: 63 Resp: 35687
 Ion Ratio Lower Upper
 63 100
 106 27.0 22.0 33.0





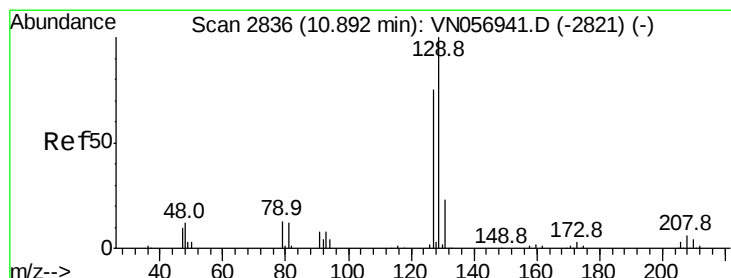
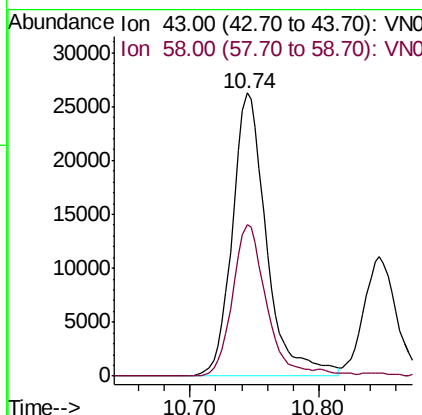
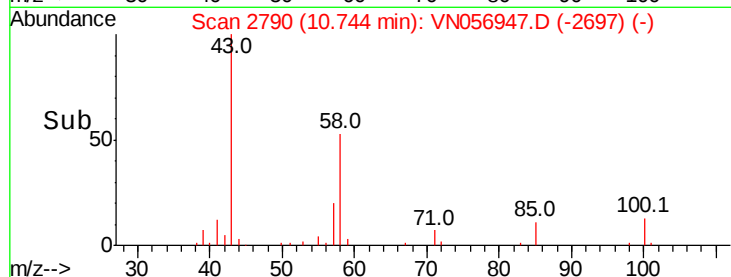
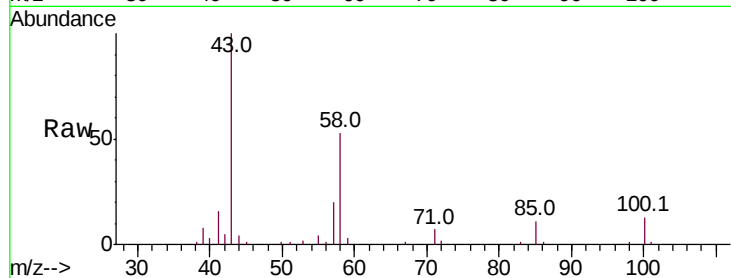
#59
2-Hexanone
Concen: 11.172 ug/l
RT: 10.74 min Scan# 2790
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

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

Tot Ion: 43 Resp: 48425
Ion Ratio Lower Upper
43 100
58 51.9 28.5 85.5

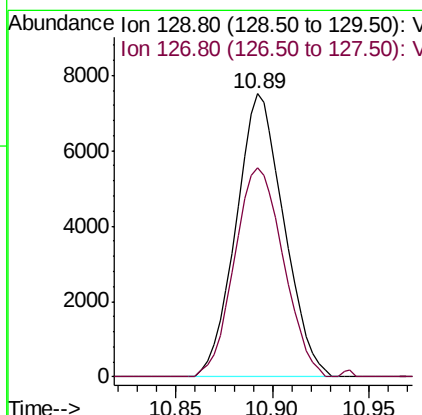
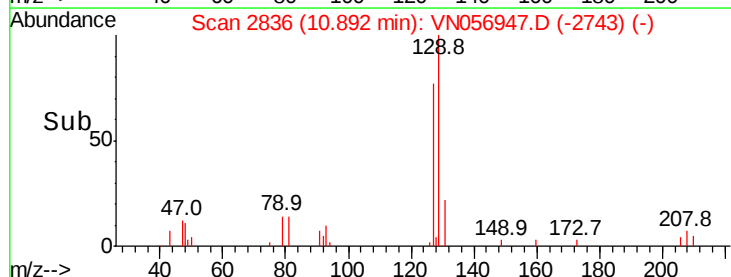
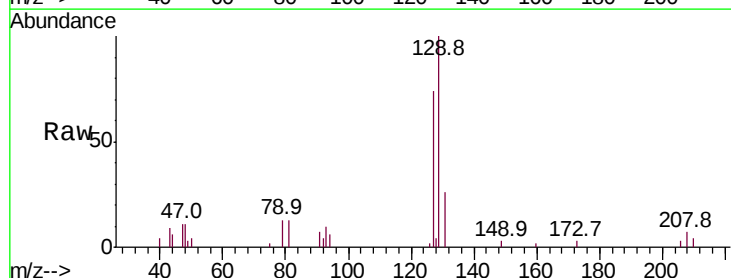
Manual Integrations
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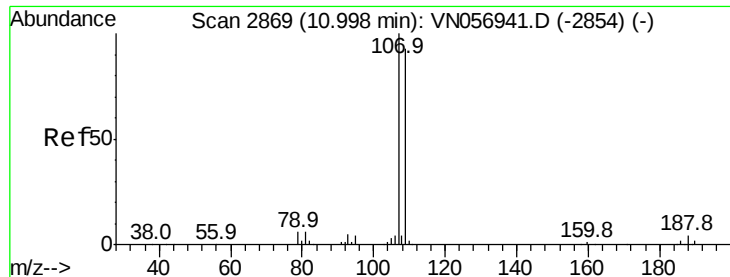
MMDadoda
8/2/2019 9:13:41 AM



#60
Dibromochloromethane
Concen: 2.148 ug/l
RT: 10.89 min Scan# 2836
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

Tgt Ion: 129 Resp: 12923
Ion Ratio Lower Upper
129 100
127 75.6 38.0 113.9





#61

1,2-Dibromoethane

Concen: 2.367 ug/l

RT: 11.00 min Scan# 2869

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion:107 Resp: 13561

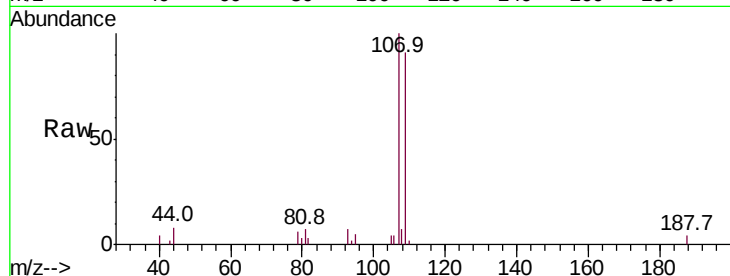
Ion Ratio Lower Upper

107 100

109 90.8 76.0 114.0

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.00

8000

6000

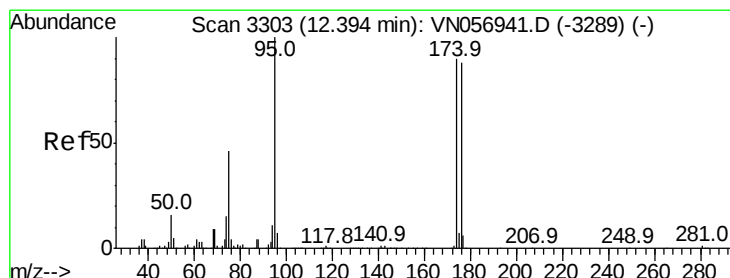
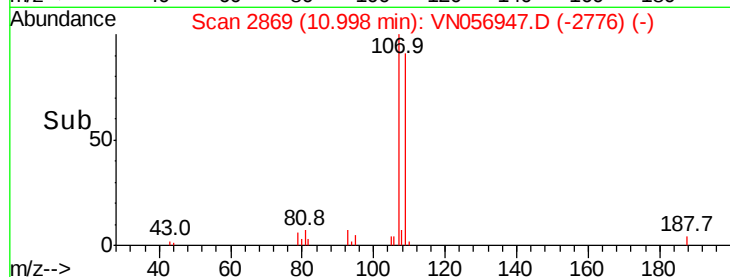
4000

2000

0

Time-->

10.95 11.00 11.05



#62

4-Bromofluorobenzene

Concen: 39.975 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

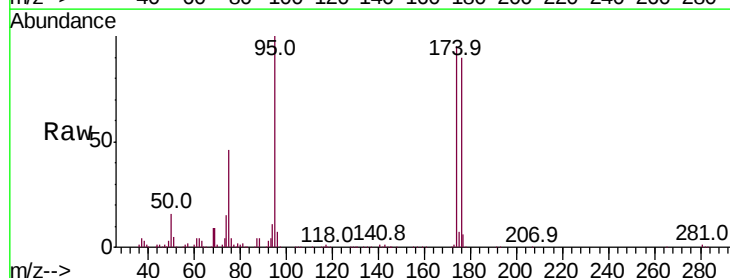
Tgt Ion: 95 Resp: 285639

Ion Ratio Lower Upper

95 100

174 92.9 0.0 182.2

176 89.1 0.0 179.4



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

200000

150000

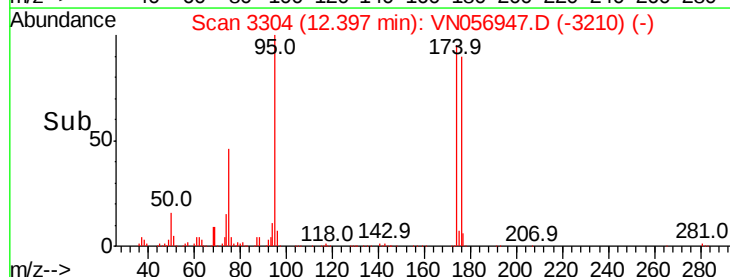
100000

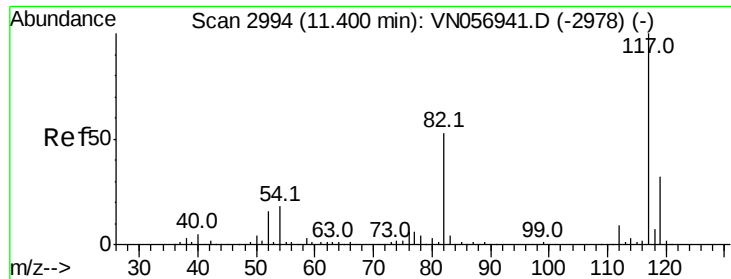
50000

0

Time-->

12.30 12.40 12.50





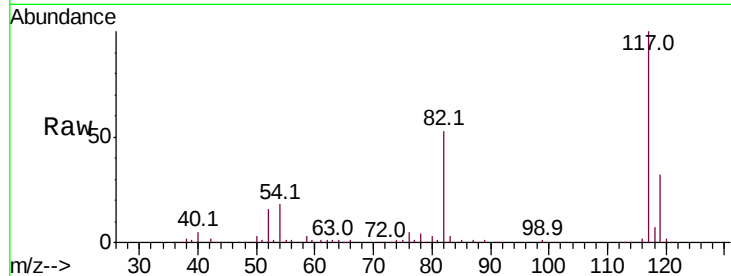
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

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

Tot Ion	Ratio	Resp	Lower	Upper
117	100	751192		
82	52.7	42.2	63.4	
119	32.2	25.8	38.6	

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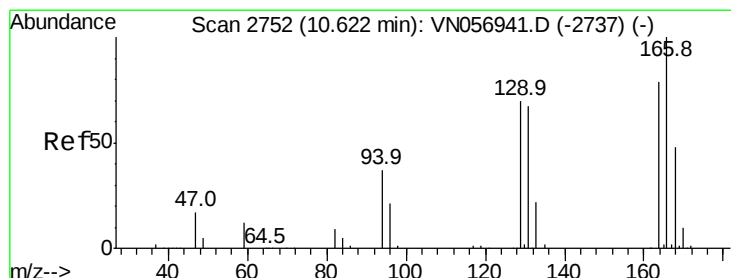
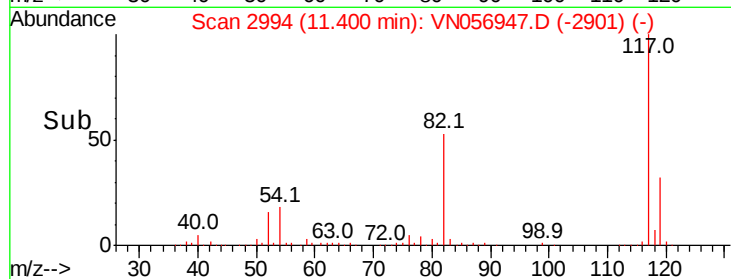
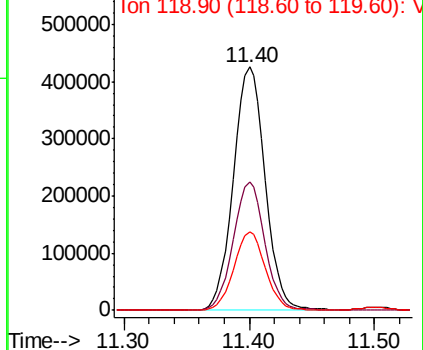


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 2.448 ug/l
RT: 10.62 min Scan# 2751
Delta R.T. -0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	15845		
166	122.1	101.1	151.7	
129	93.5	70.9	106.3	
131	87.0	67.7	101.5	

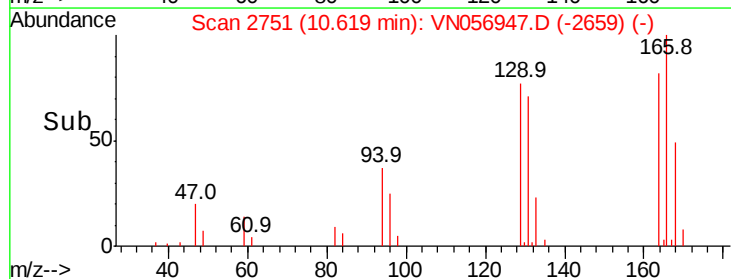
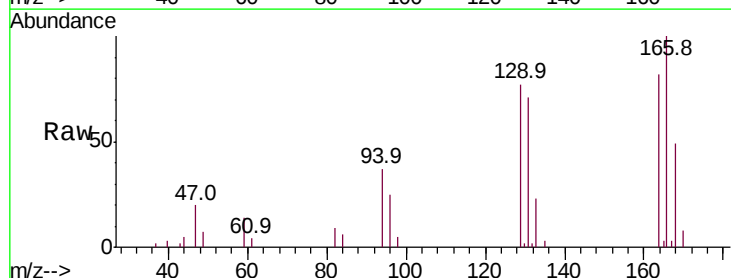
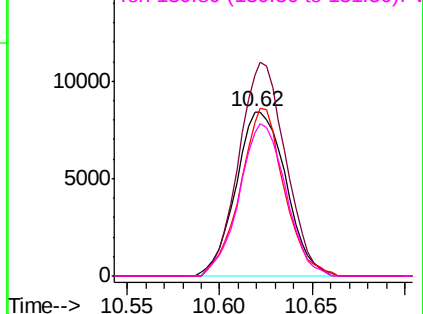
Abundance

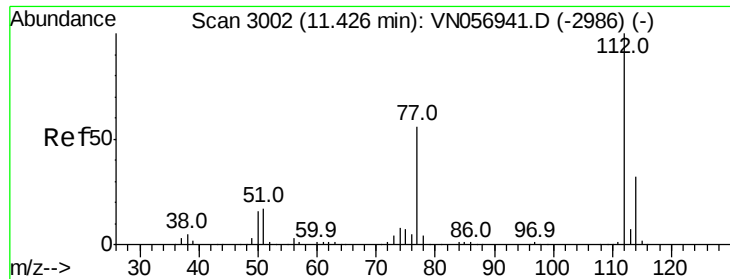
Ion 163.80 (163.50 to 164.50): V

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





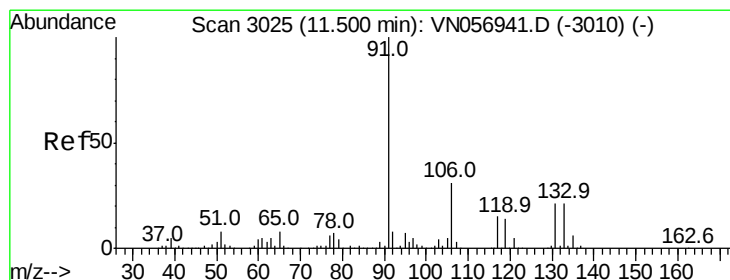
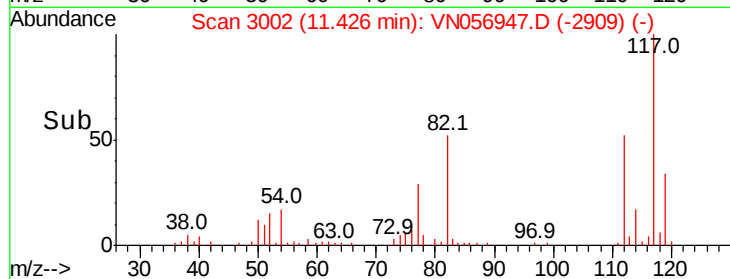
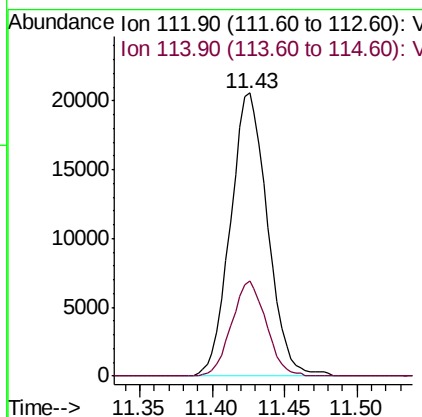
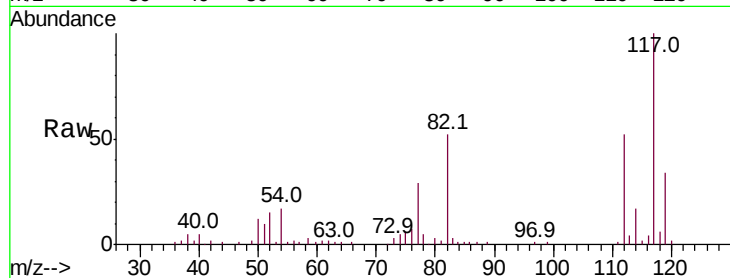
#65
Chlorobenzene
Concen: 2.386 ug/l
RT: 11.43 min Scan# 3002
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

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

Tot Ion:112 Resp: 36533
Ion Ratio Lower Upper
112 100
114 33.5 26.0 39.0

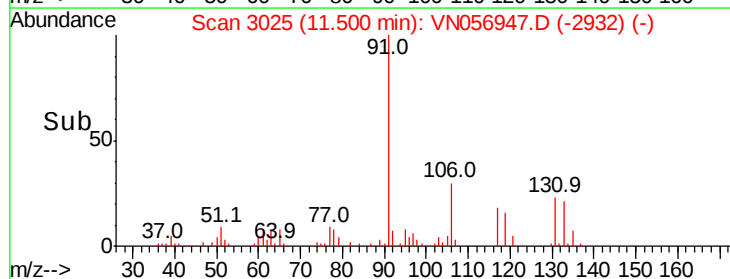
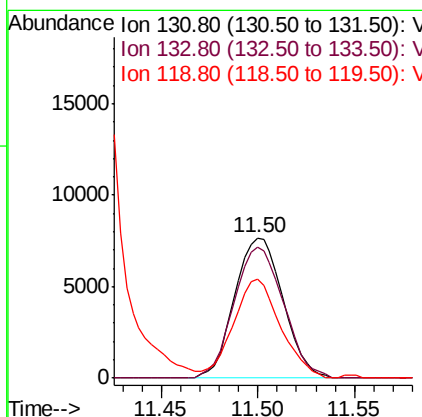
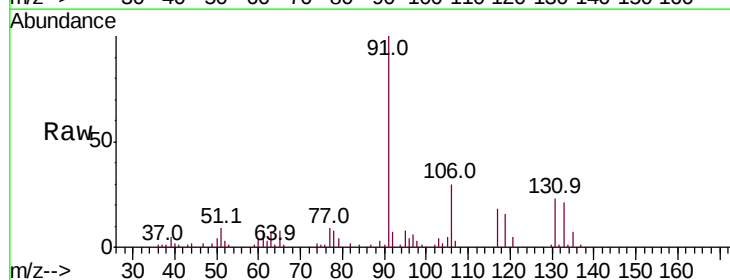
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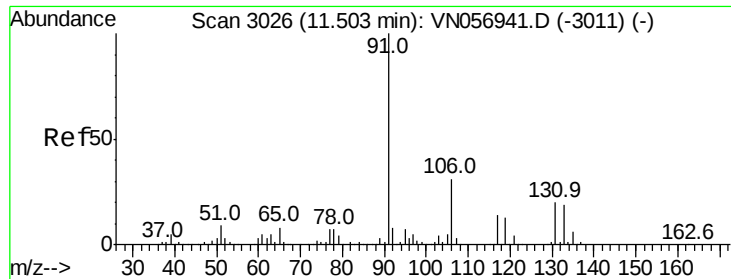
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 2.320 ug/l
RT: 11.50 min Scan# 3025
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

Tgt Ion:131 Resp: 13367
Ion Ratio Lower Upper
131 100
133 95.3 48.0 144.0
119 68.6 33.2 99.6





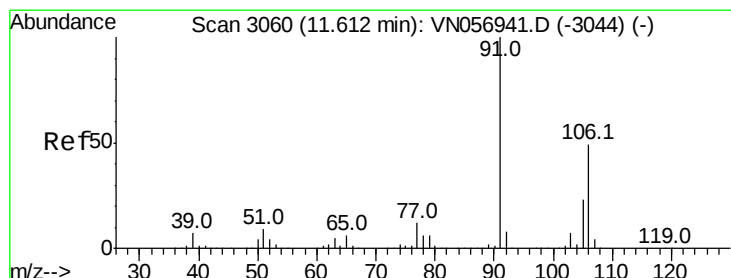
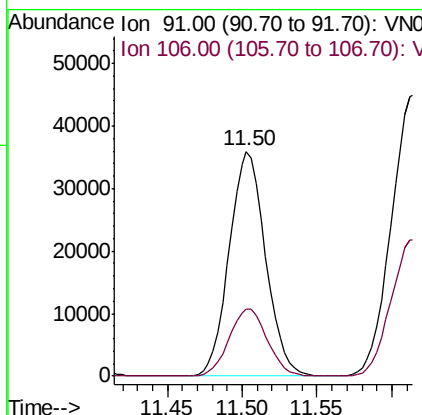
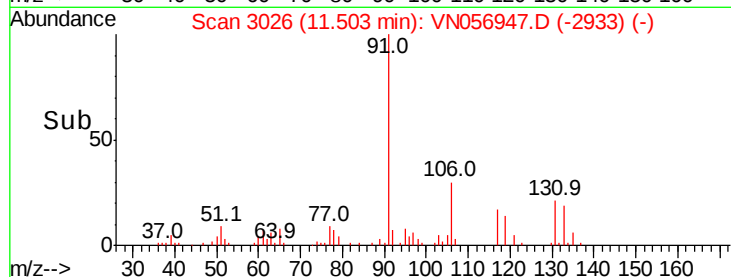
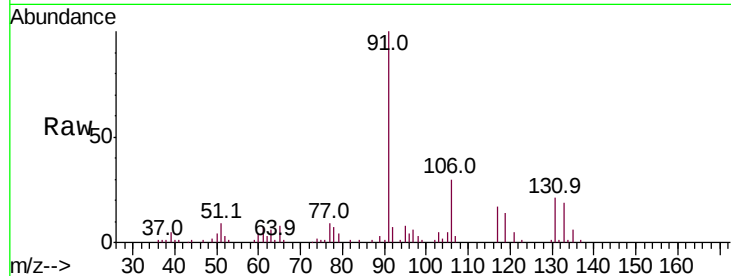
#67
Ethyl Benzene
Concen: 2.295 ug/l
RT: 11.50 min Scan# 3026
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

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

Tot Ion: 91 Resp: 60732
Ion Ratio Lower Upper
91 100
106 30.0 25.1 37.7

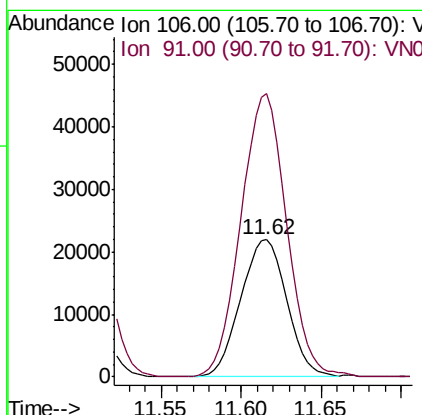
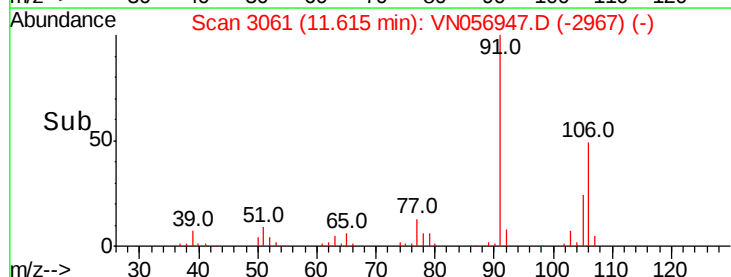
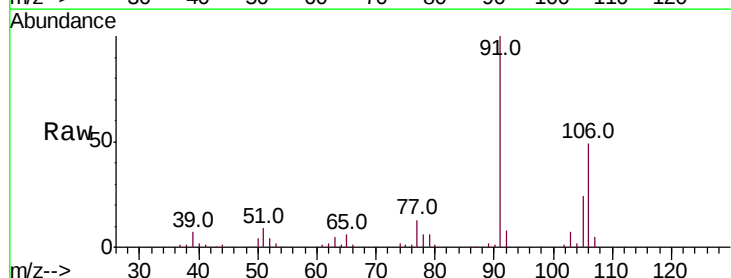
Manual Integrations
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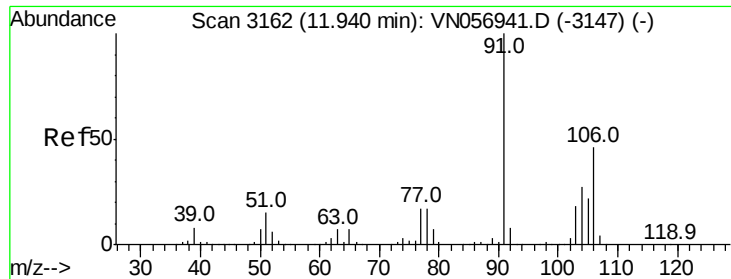
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#68
m/p-Xylenes
Concen: 4.442 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

Tgt Ion: 106 Resp: 43375
Ion Ratio Lower Upper
106 100
91 204.9 160.0 240.0





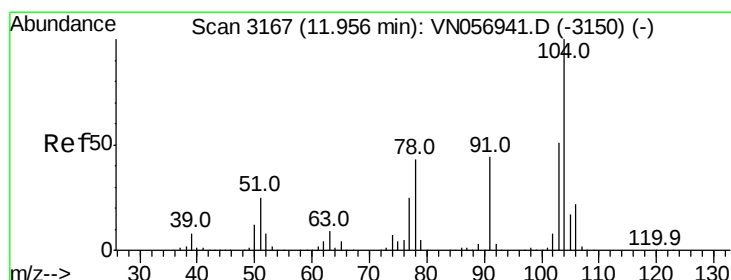
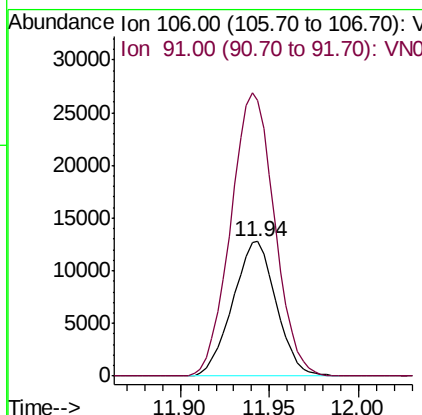
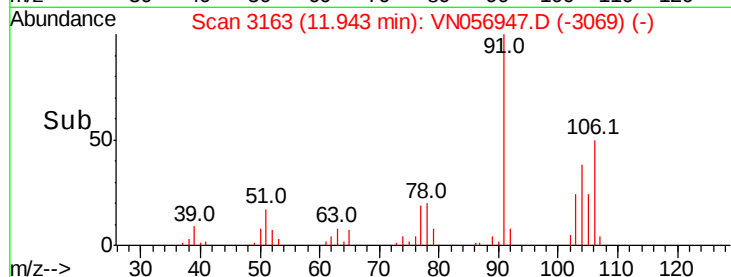
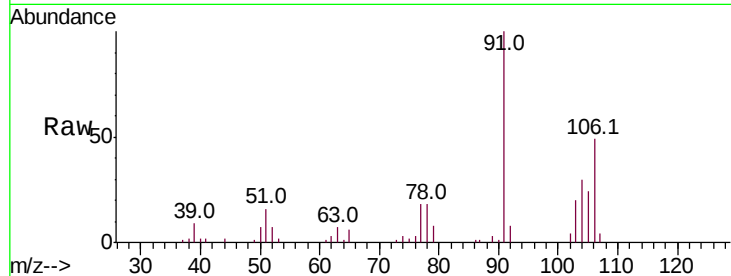
#69
o-Xylene
Concen: 2.266 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

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

Tot Ion:106 Resp: 21651
Ion Ratio Lower Upper
106 100
91 211.2 106.2 318.6

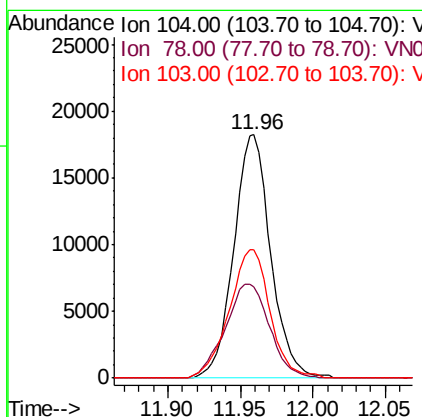
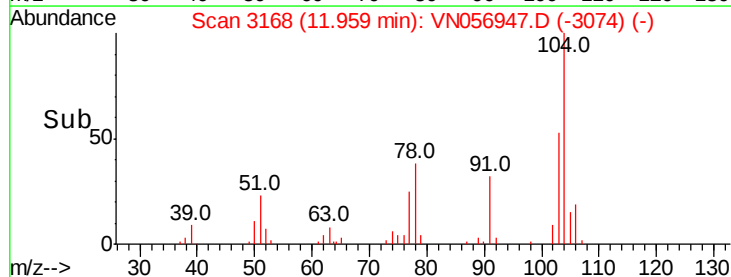
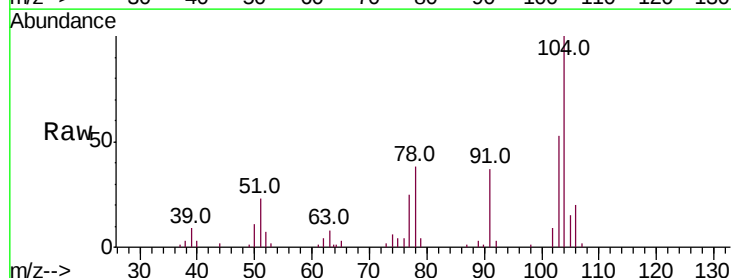
Manual Integrations
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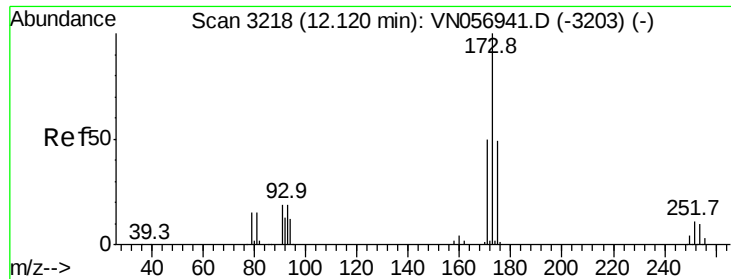
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#70
Styrene
Concen: 2.111 ug/l
RT: 11.96 min Scan# 3168
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

Tgt Ion:104 Resp: 32164
Ion Ratio Lower Upper
104 100
78 46.4 38.1 57.1
103 58.3 44.3 66.5





#71

Bromoform

Concen: 2.184 ug/l

RT: 12.12 min Scan# 3218

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion:173 Resp: 8785

Ion Ratio Lower Upper

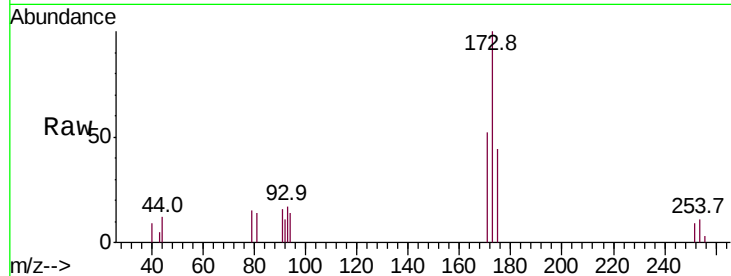
173 100

175 44.4 24.1 72.4

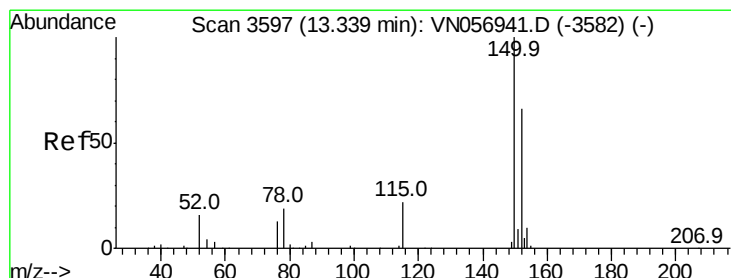
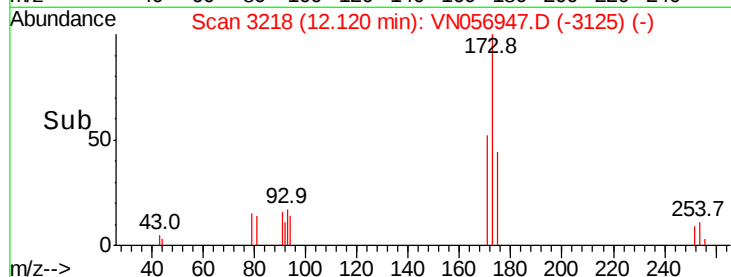
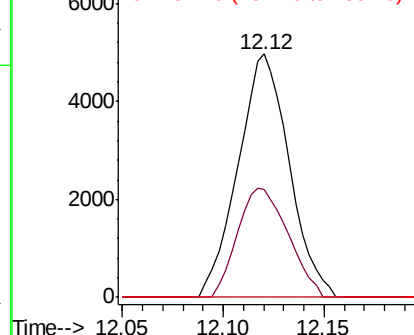
254 0.0 0.1 0.1#

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

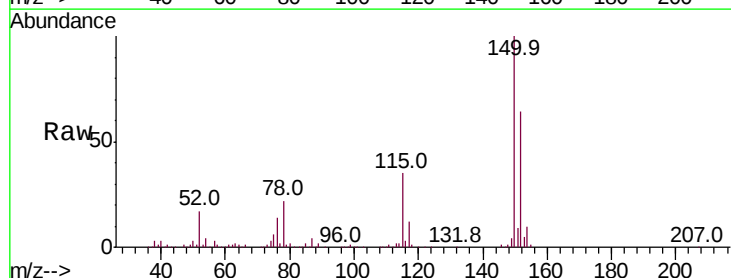
Tgt Ion:152 Resp: 227658

Ion Ratio Lower Upper

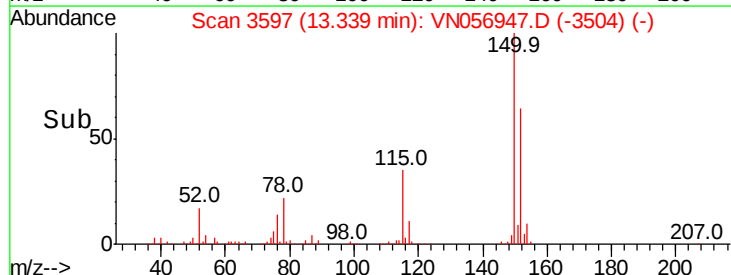
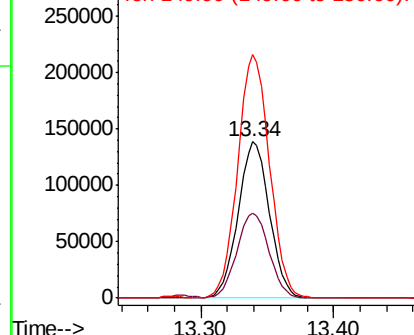
152 100

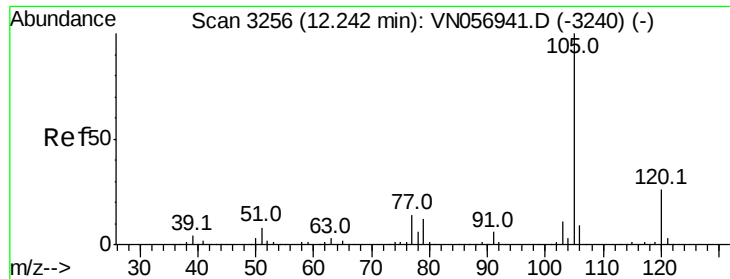
115 55.8 28.2 84.6

150 157.4 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: 2.928 ug/l

RT: 12.24 min Scan# 3256

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion:105 Resp: 57605

Ion Ratio Lower Upper

105 100

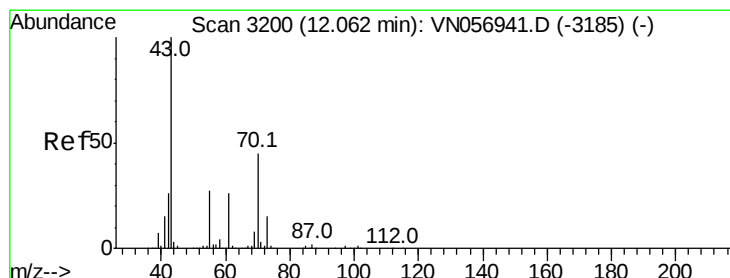
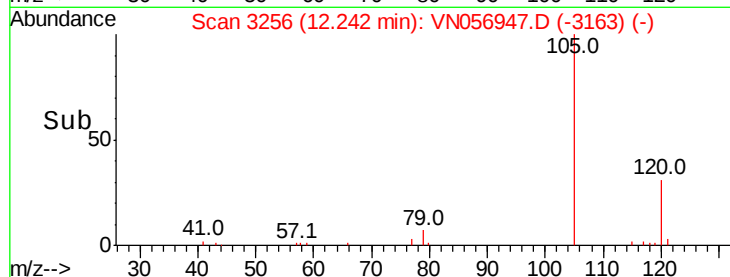
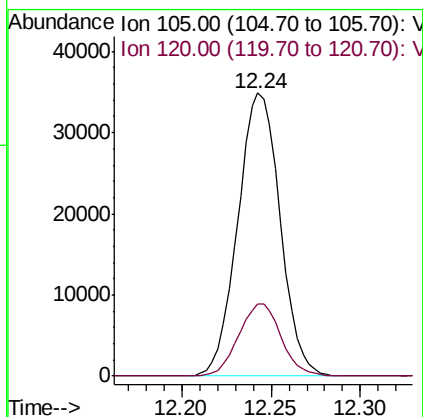
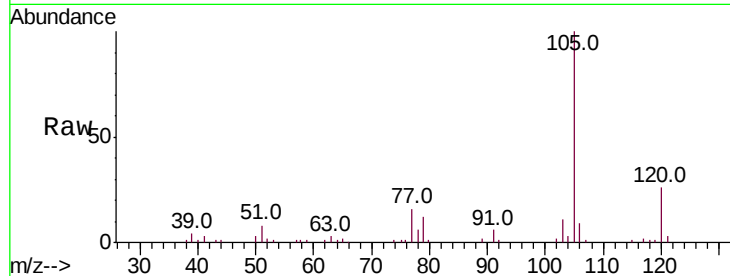
120 25.6 13.5 40.5

Manual Integrations

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#74

N-ethyl acetate

Concen: 2.417 ug/l

RT: 12.07 min Scan# 3201

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Tgt Ion: 43 Resp: 13807

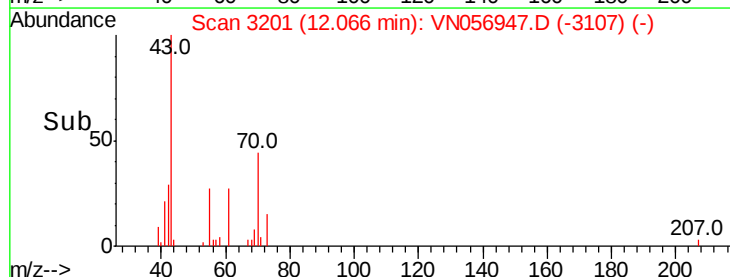
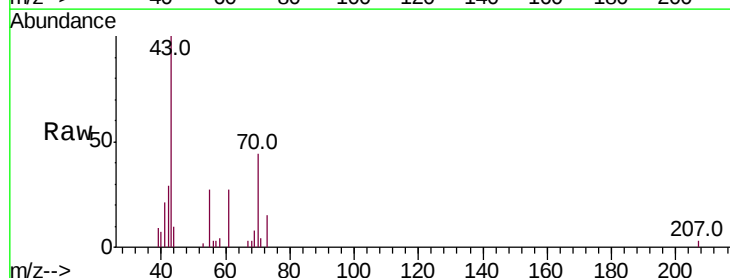
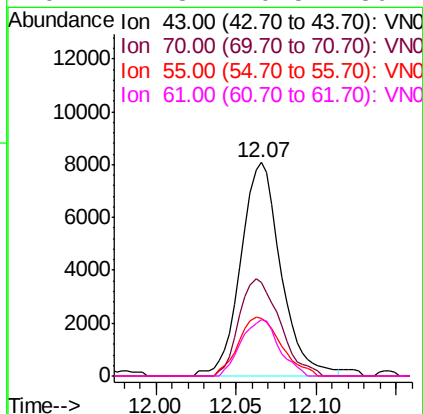
Ion Ratio Lower Upper

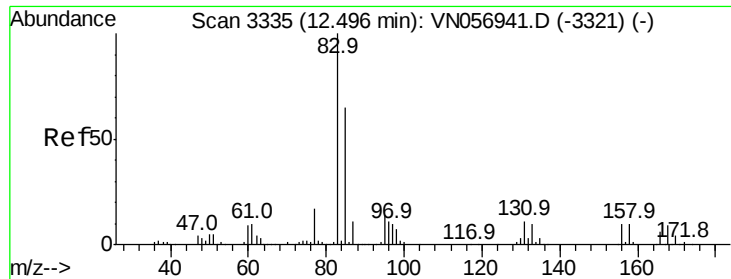
43 100

70 45.9 36.5 54.7

55 29.0 21.4 32.0

61 24.8 20.5 30.7





#75

1,1,2,2-Tetrachloroethane

Concen: 3.068 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

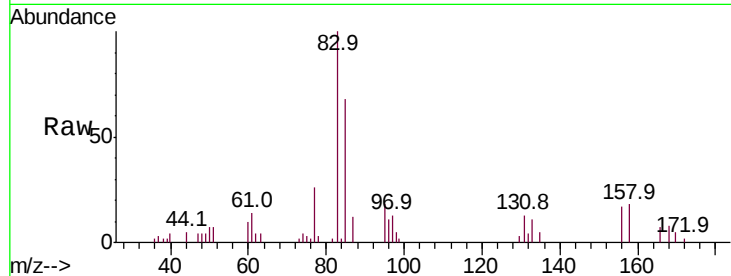
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

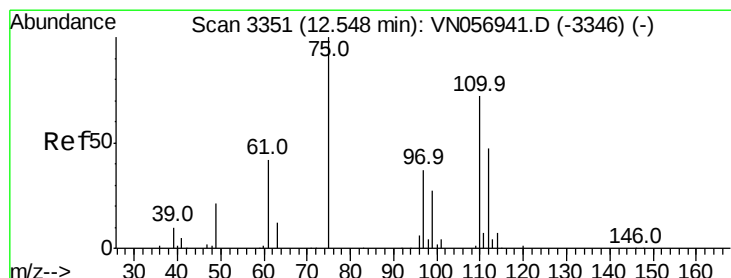
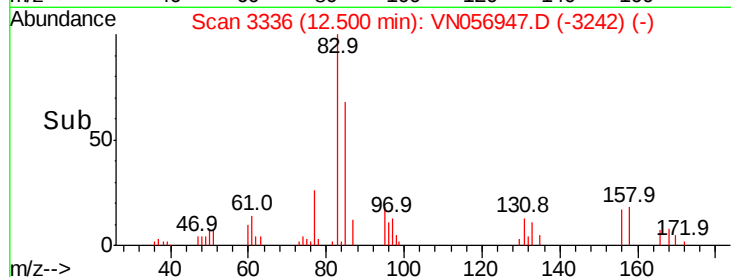
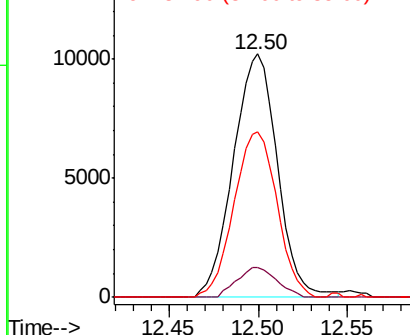
Tot Ion:	83	Resp:	17584
Ion Ratio	Lower	Upper	
83	100		
131	11.1	5.3	16.1
85	66.4	32.5	97.4

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



#76

1,2,3-Trichloropropane

Concen: 3.192 ug/l m

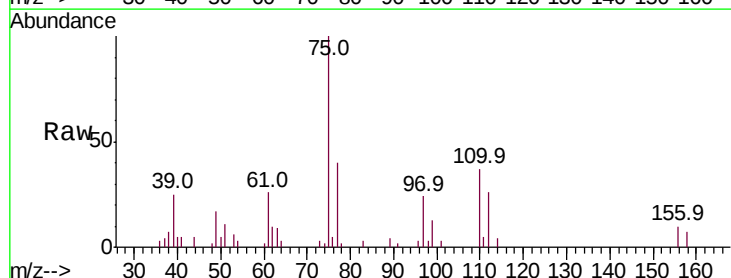
RT: 12.55 min Scan# 3351

Delta R.T. 0.00 min

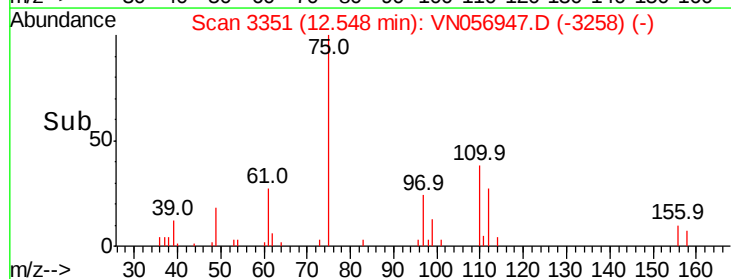
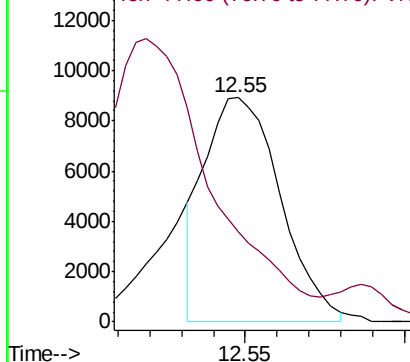
Lab File: VN056947.D

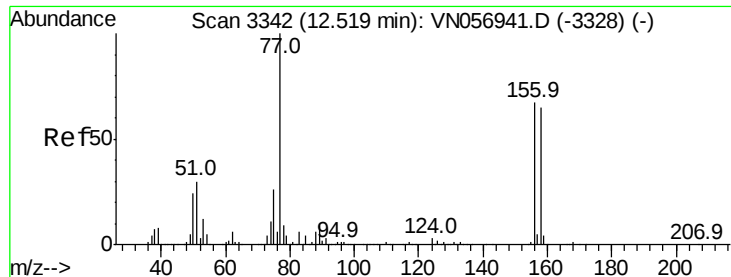
Acq: 26 Jul 2019 17:27

Tgt Ion:	75	Resp:	14758
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



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





#77

Bromobenzene

Concen: 2.842 ug/l

RT: 12.52 min Scan# 3342

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

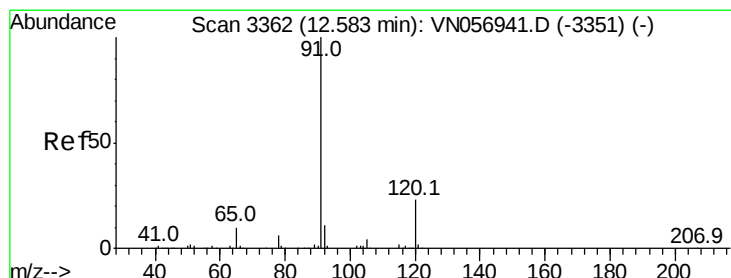
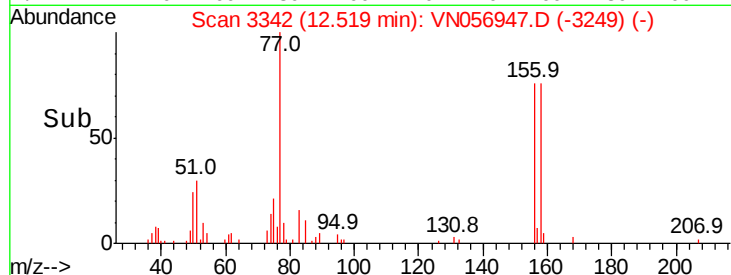
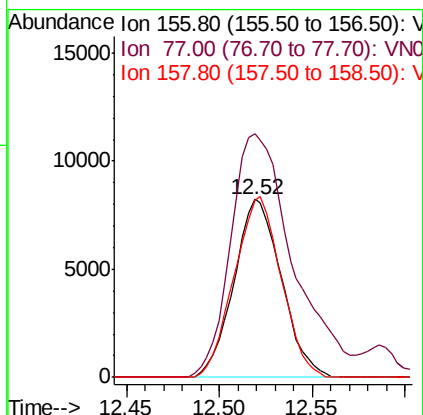
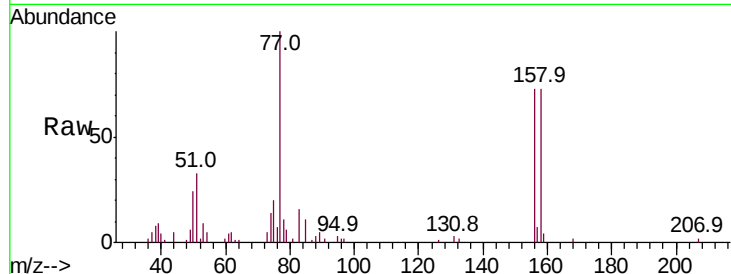
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion:156 Resp: 14594
 Ion Ratio Lower Upper
 156 100
 77 181.4 89.5 268.5
 158 100.5 48.4 145.3

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#78

n-propylbenzene

Concen: 2.684 ug/l

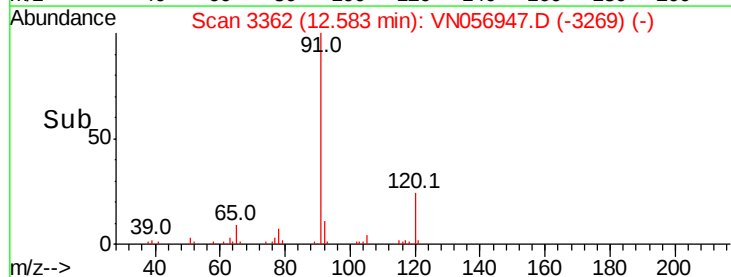
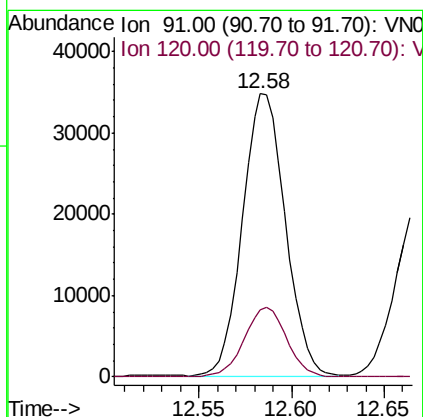
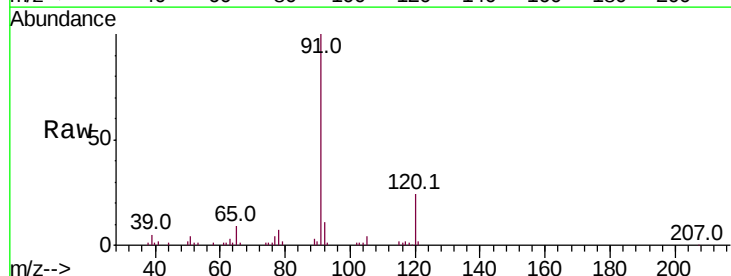
RT: 12.58 min Scan# 3362

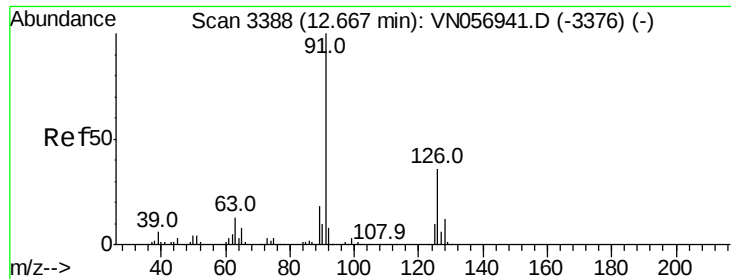
Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Tgt Ion: 91 Resp: 56378
 Ion Ratio Lower Upper
 91 100
 120 24.1 11.8 35.4





#79

2-Chlorotoluene

Concen: 2.864 ug/l

RT: 12.67 min Scan# 3388

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion: 91 Resp: 37048

Ion Ratio Lower Upper

91 100

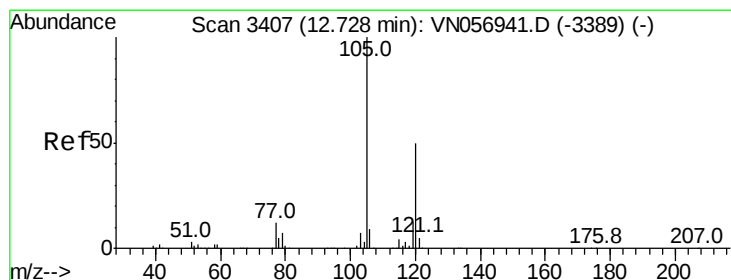
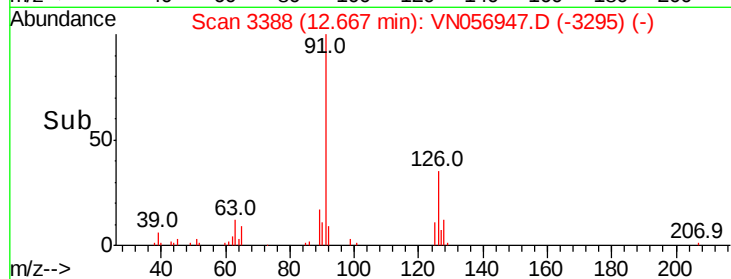
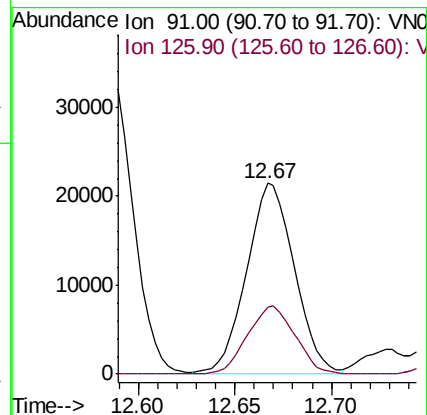
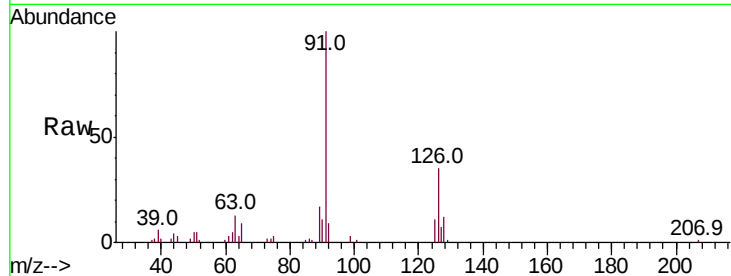
126 35.3 17.9 53.7

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 2.860 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN056947.D

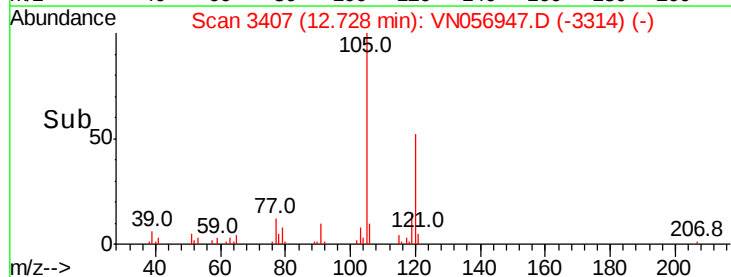
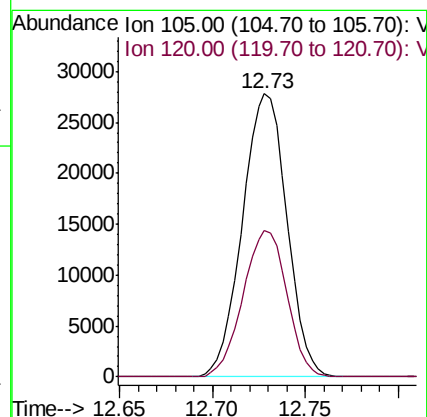
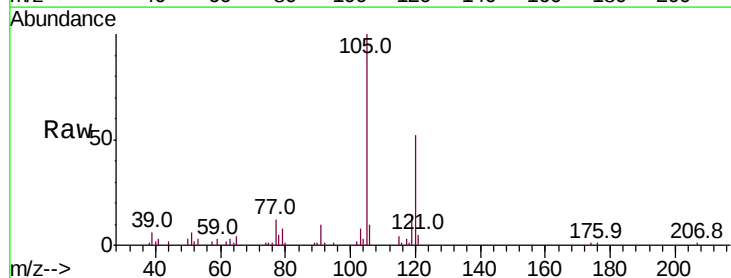
Acq: 26 Jul 2019 17:27

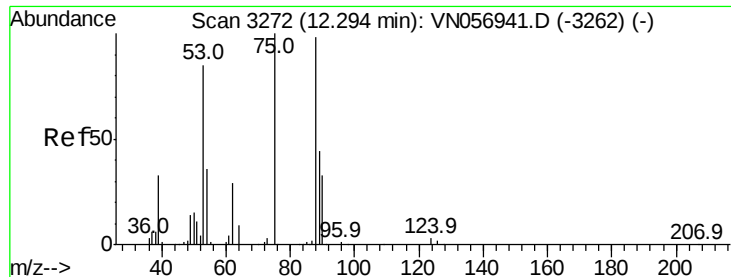
Tgt Ion: 105 Resp: 46177

Ion Ratio Lower Upper

105 100

120 51.0 24.8 74.3





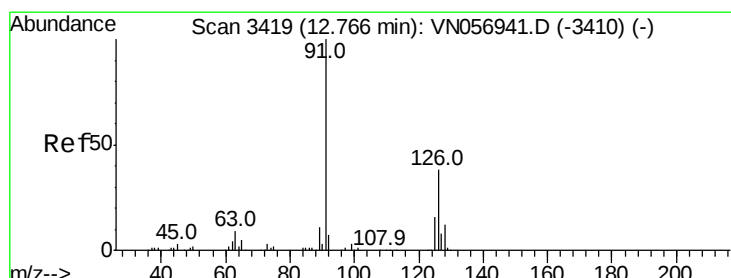
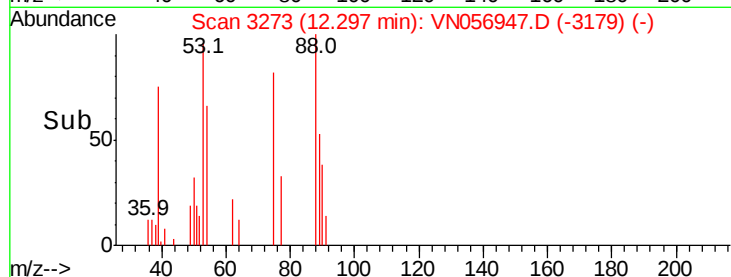
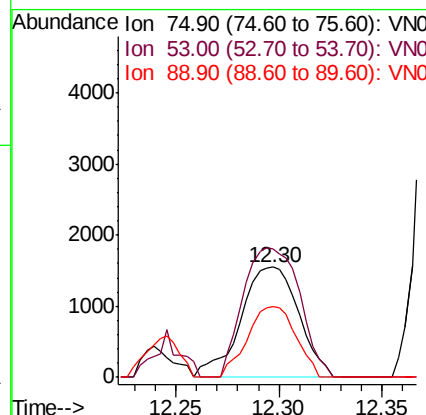
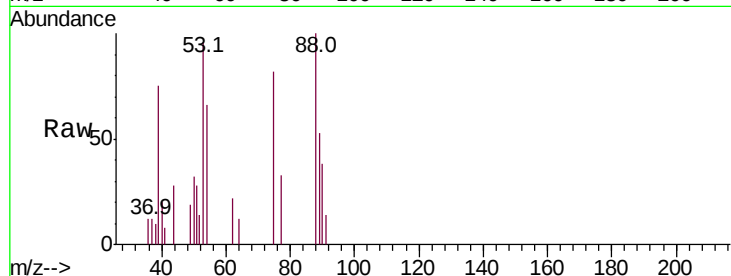
#81
trans-1,4-Dichloro-2-butene
Concen: 2.113 ug/l m
RT: 12.30 min Scan# 3273
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

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

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	69.3	103.9#
89	0.0	35.8	53.6#

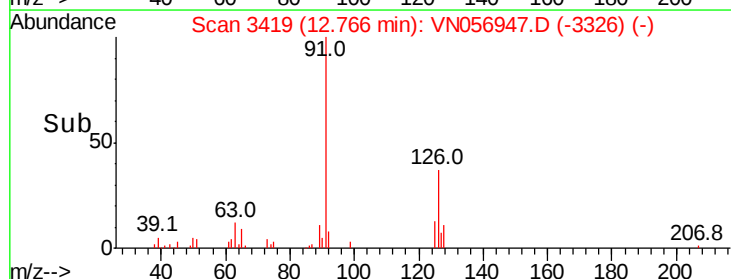
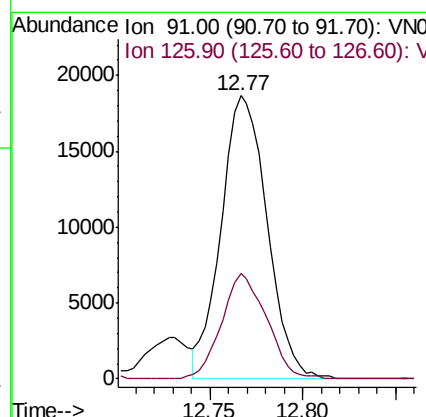
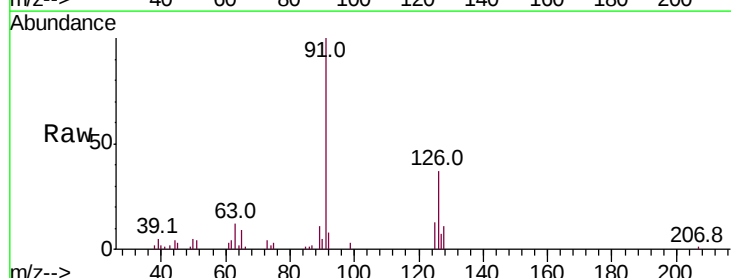
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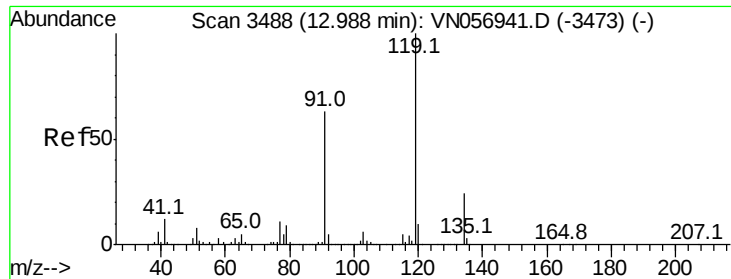
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#82
4-Chlorotoluene
Concen: 2.660 ug/l
RT: 12.77 min Scan# 3419
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

Tgt Ion	Ratio	Lower	Upper
91	100		
126	36.2	17.5	52.5





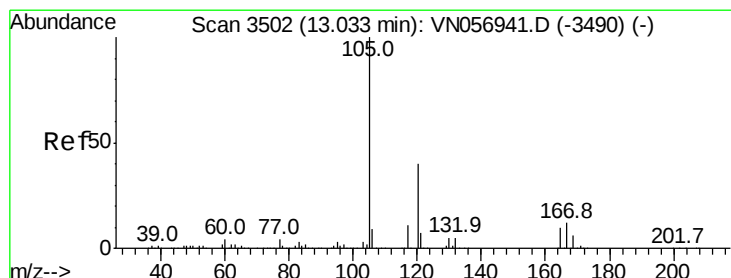
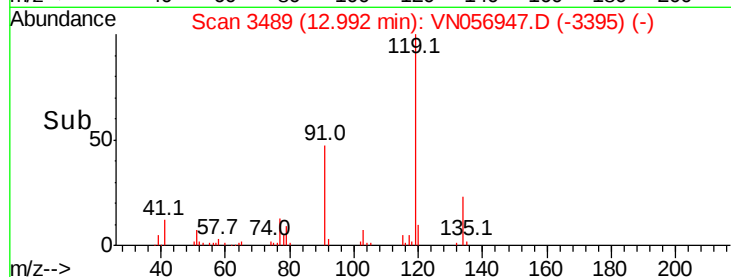
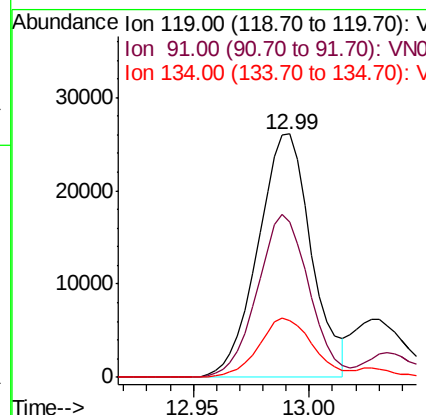
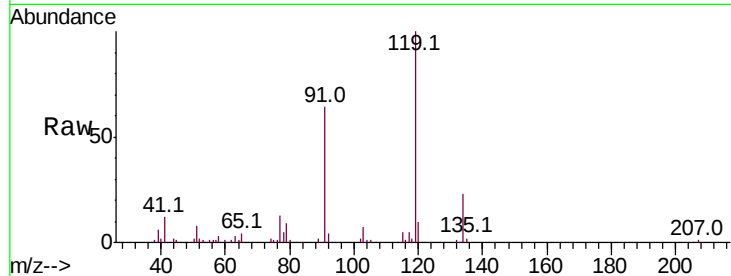
#83
tert-Butylbenzene
Concen: 2.929 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

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

Tot Ion	Ratio	Lower	Upper
119	100		
91	64.7	31.3	93.8
134	24.6	13.3	39.8

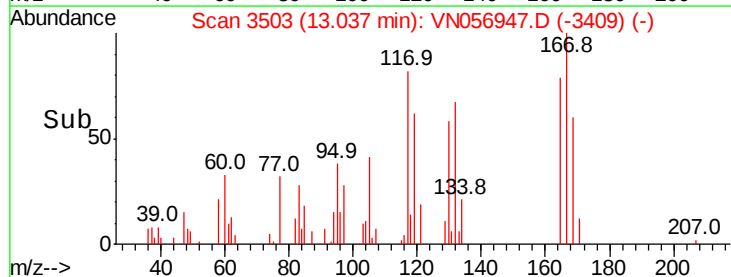
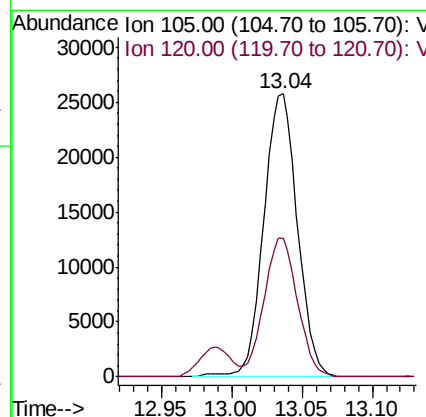
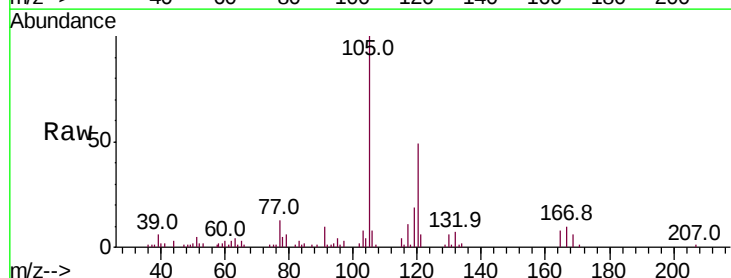
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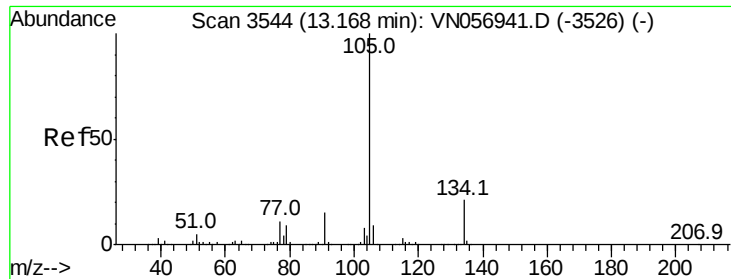
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#84
1,2,4-Trimethylbenzene
Concen: 2.764 ug/l
RT: 13.04 min Scan# 3503
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

Tgt Ion	Ratio	Lower	Upper
105	100		
120	48.6	23.2	69.6





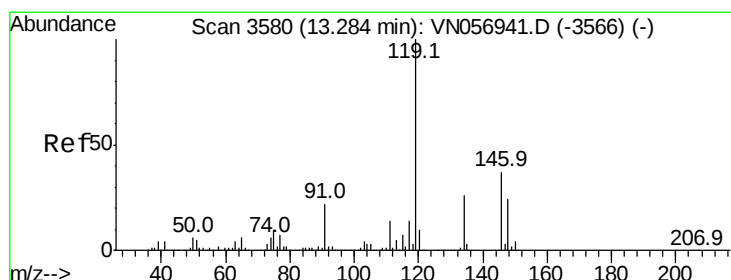
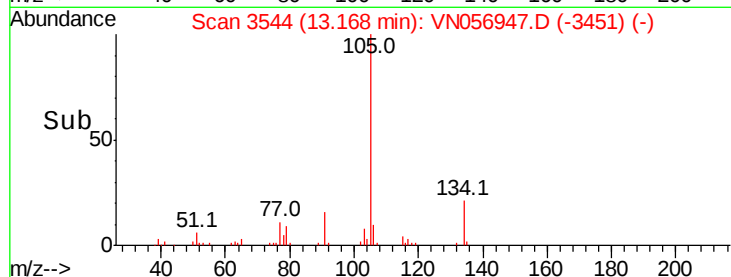
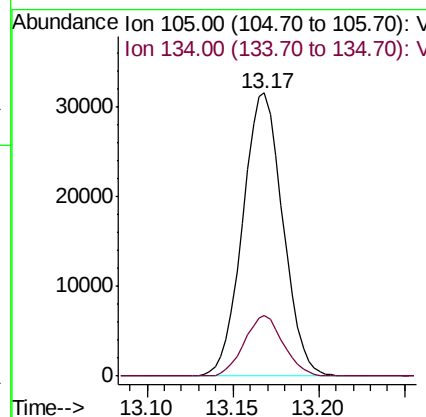
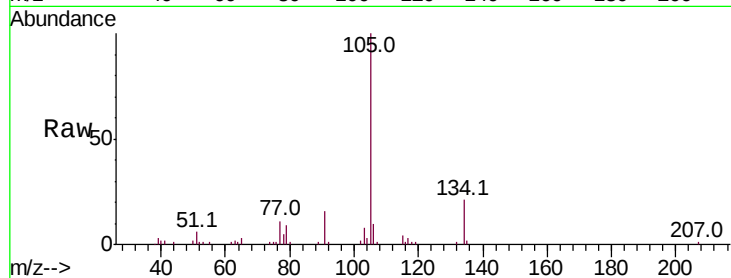
#85
 sec-Butylbenzene
 Concen: 2.776 ug/l
 RT: 13.17 min Scan# 3544
 Delta R.T. 0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

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

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.7	10.3	30.8

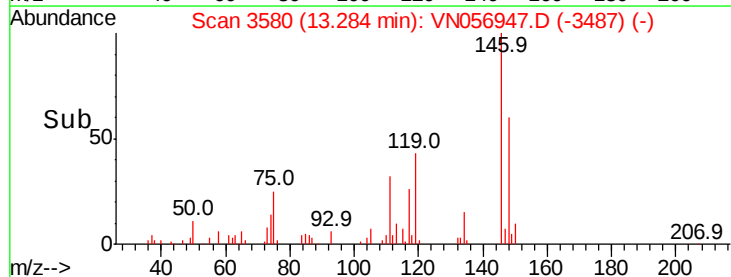
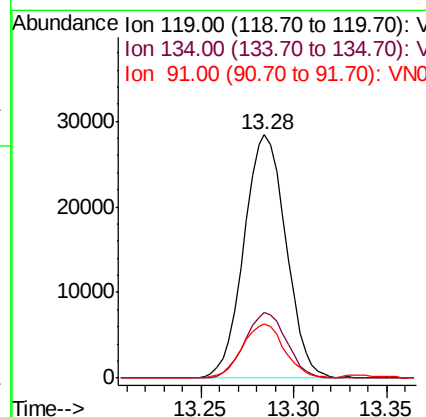
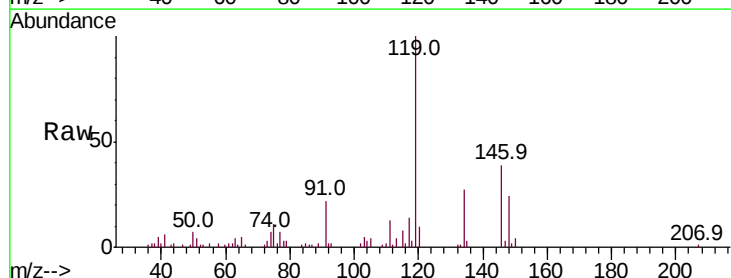
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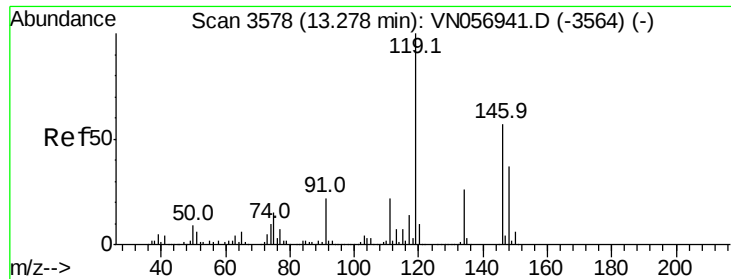
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#86
 p-Isopropyltoluene
 Concen: 2.734 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.8	13.4	40.1
91	22.3	11.0	33.0





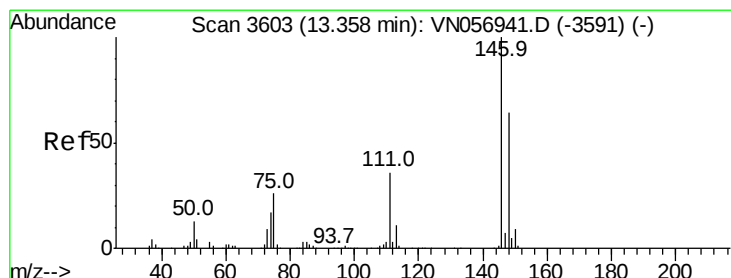
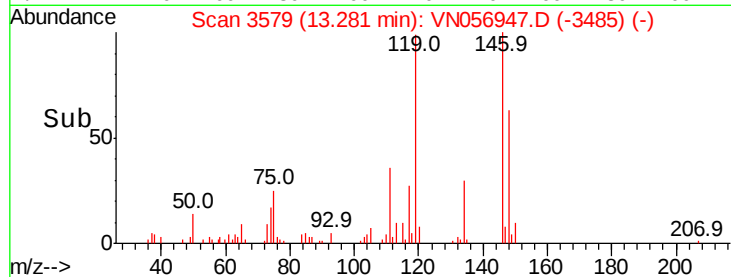
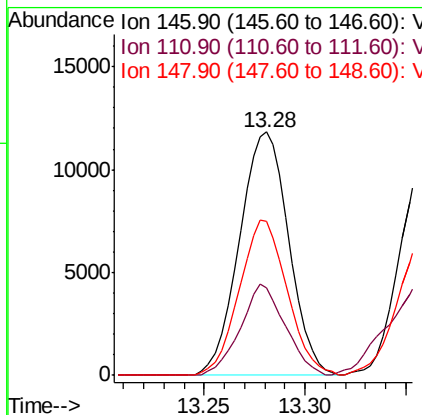
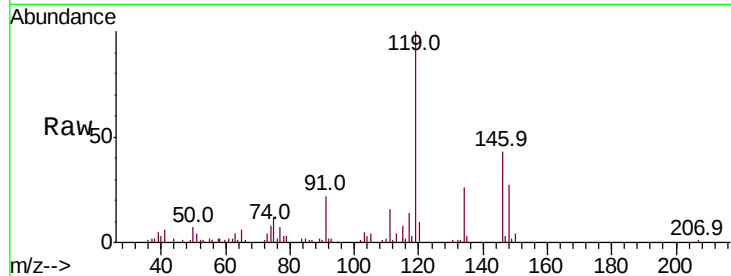
#87
 1,3-Dichlorobenzene
 Concen: 2.585 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	34.0	18.6	55.8
148	62.1	32.2	96.6

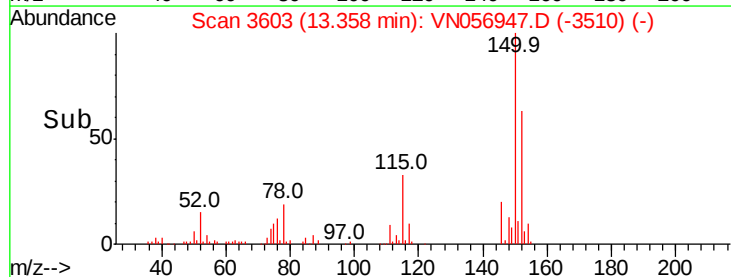
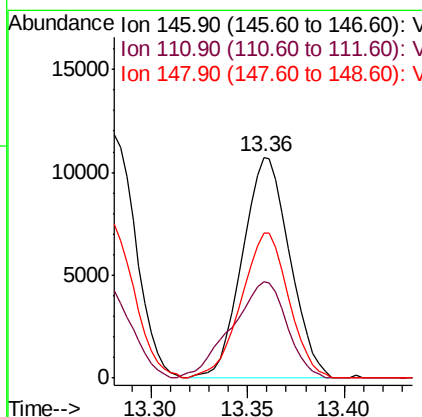
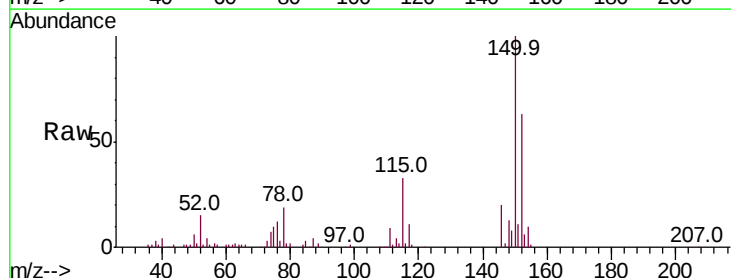
Manual Integrations
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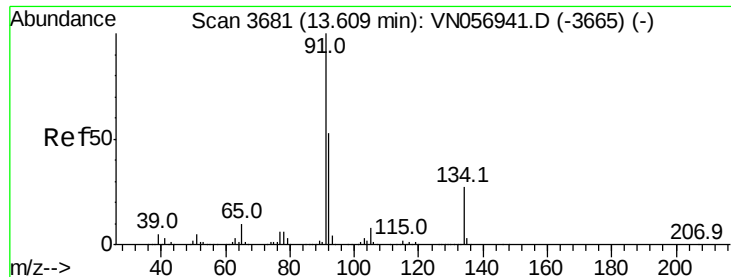
MMDadoda
 8/2/2019 9:13:41 AM



#88
 1,4-Dichlorobenzene
 Concen: 2.427 ug/l
 RT: 13.36 min Scan# 3603
 Delta R.T. 0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

Tgt Ion	Ratio	Lower	Upper
146	100		
111	50.9	18.4	55.2
148	65.8	32.3	96.9





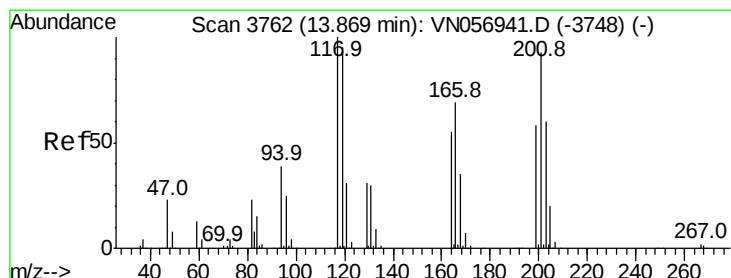
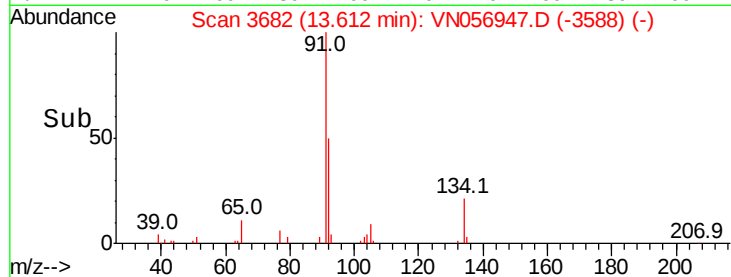
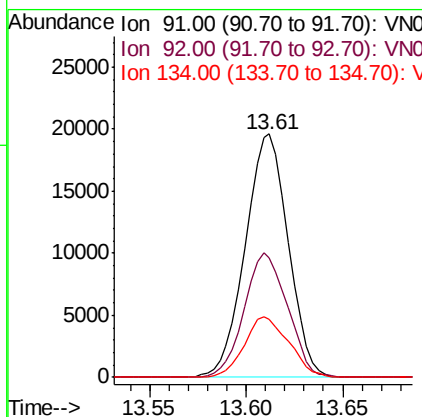
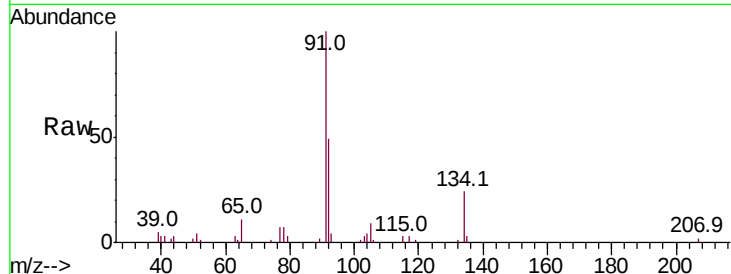
#89
n-Butylbenzene
Concen: 2.402 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

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

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.6	26.2	78.5
134	25.8	13.5	40.4

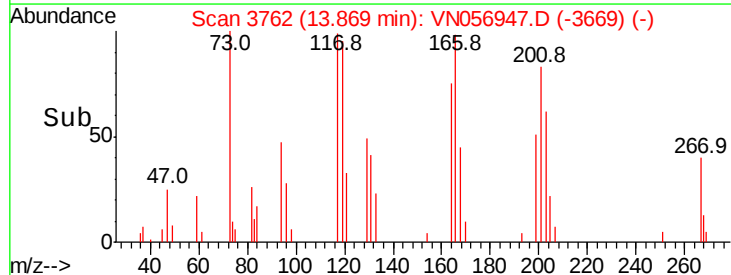
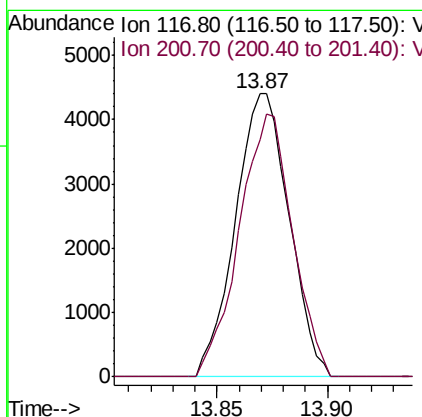
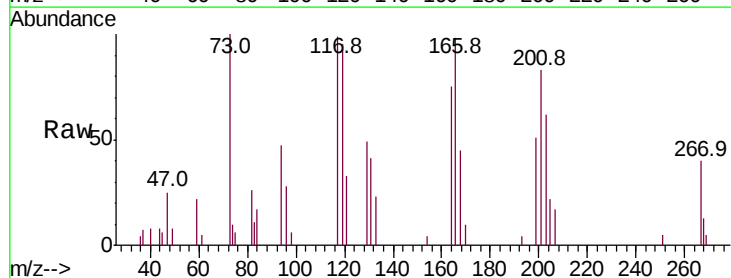
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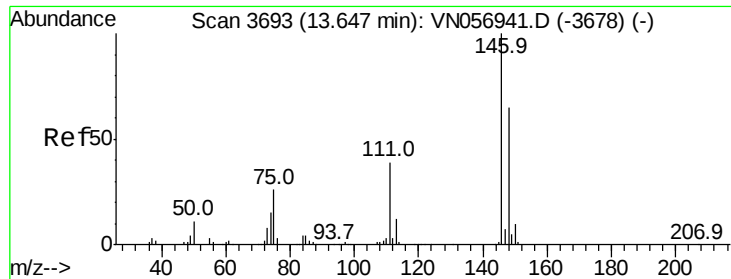
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#90
Hexachloroethane
Concen: 2.636 ug/l
RT: 13.87 min Scan# 3762
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

Tgt Ion	Ratio	Lower	Upper
117	100		
201	92.1	47.0	141.2





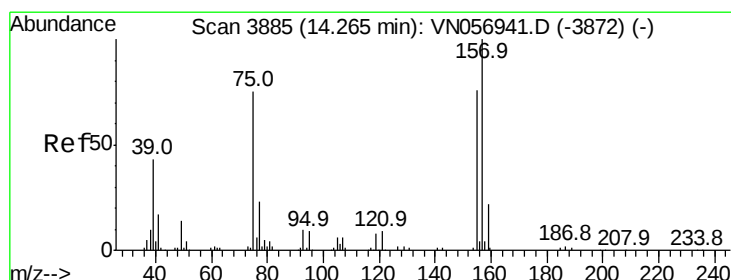
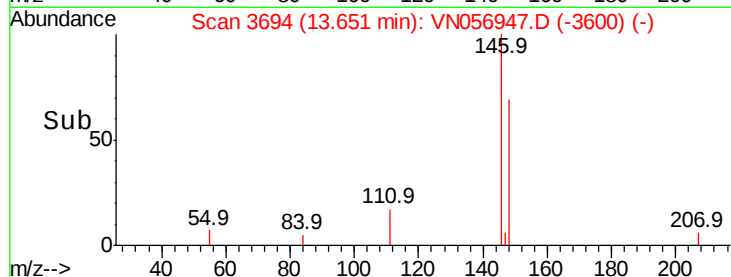
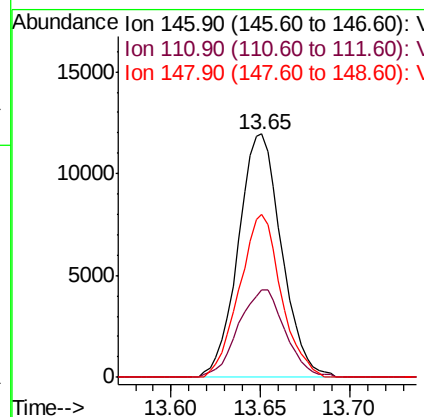
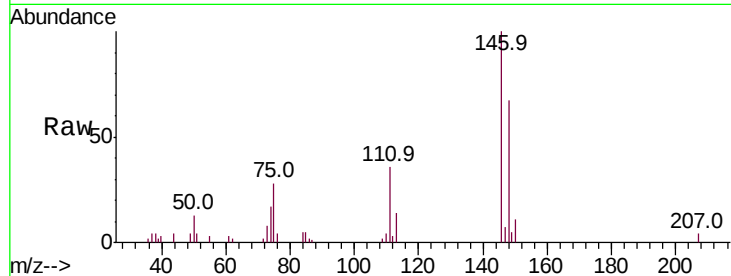
#91
 1,2-Dichlorobenzene
 Concen: 2.626 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.9	19.4	58.4
148	64.9	32.2	96.6

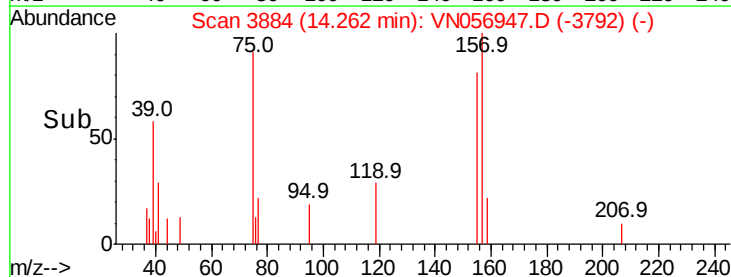
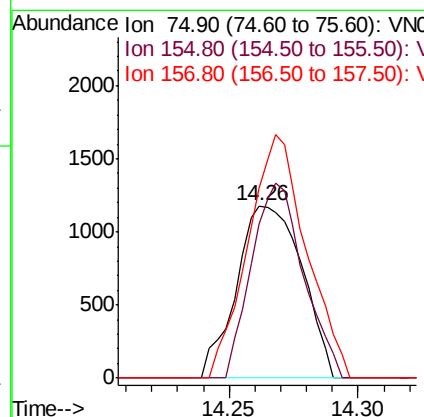
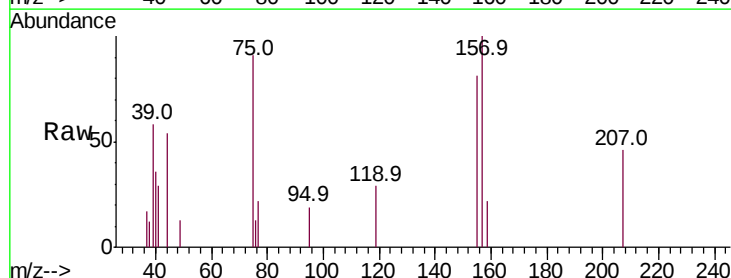
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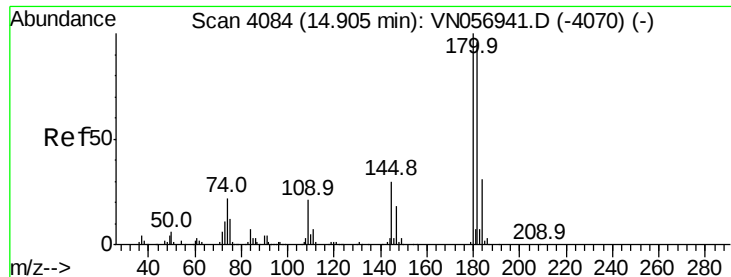
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.662 ug/l
 RT: 14.26 min Scan# 3884
 Delta R.T. -0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

Tgt Ion	Ratio	Lower	Upper
75	100		
155	89.7	50.2	150.6
157	125.9	65.1	195.4





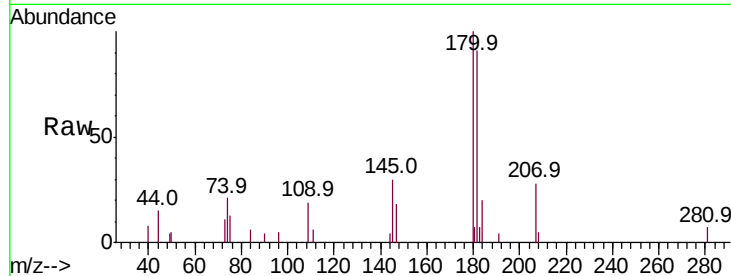
#93
 1,2,4-Trichlorobenzene
 Concen: 1.865 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.01 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

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

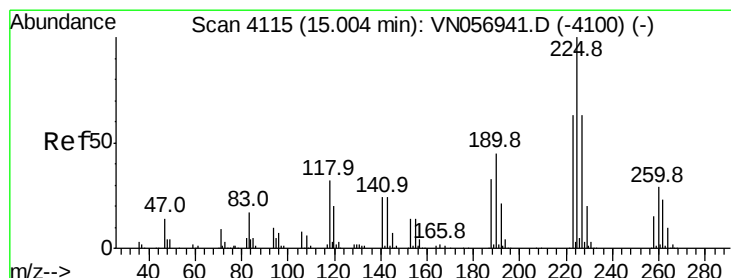
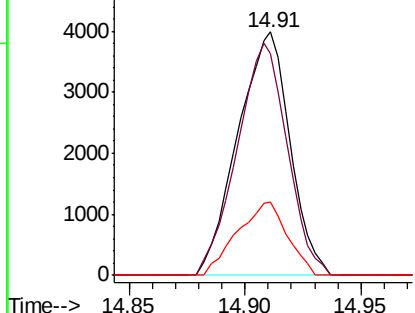
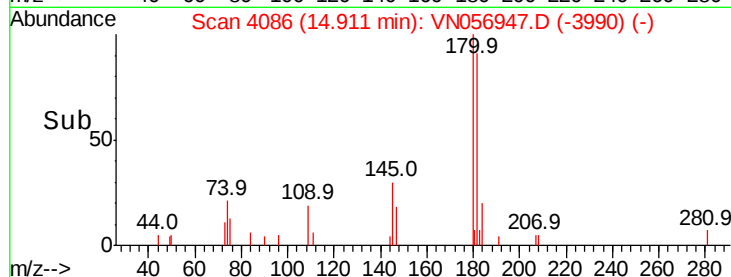
Tot Ion	Ratio	Lower	Upper
180	100		
182	91.9	47.6	142.8
145	28.8	14.2	42.8

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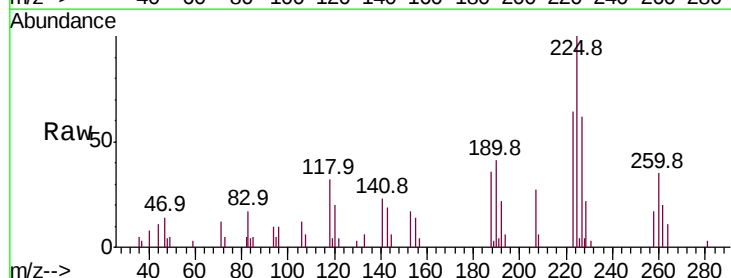


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

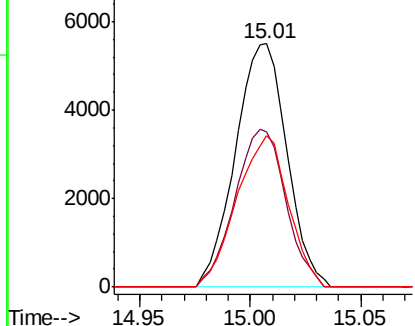
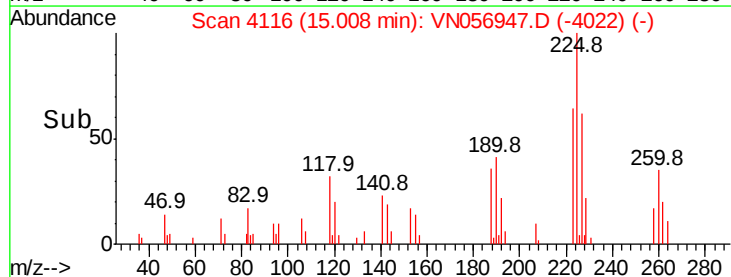


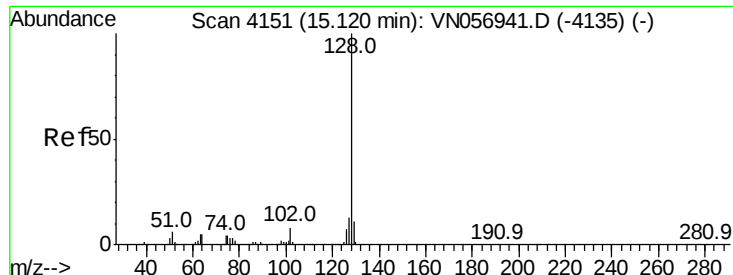
#94
 Hexachlorobutadiene
 Concen: 2.785 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.9	30.8	92.4
227	62.3	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





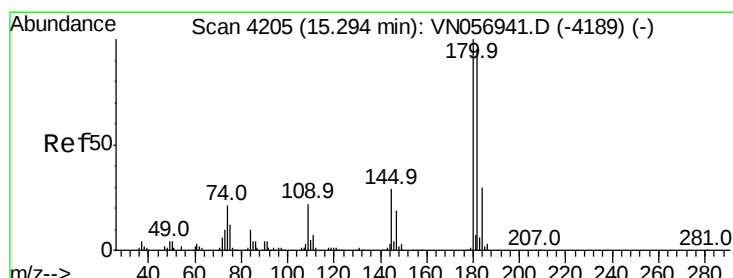
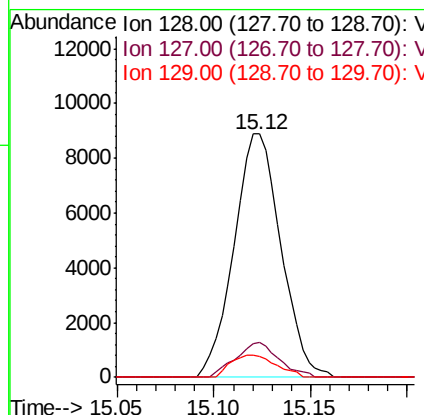
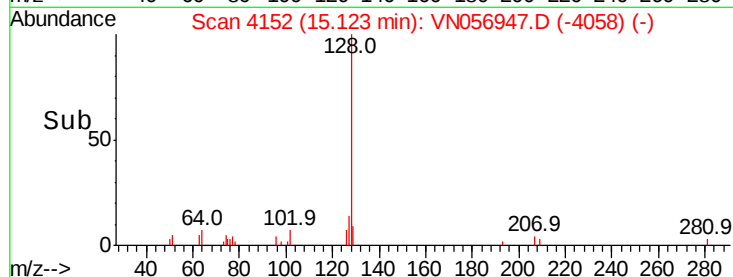
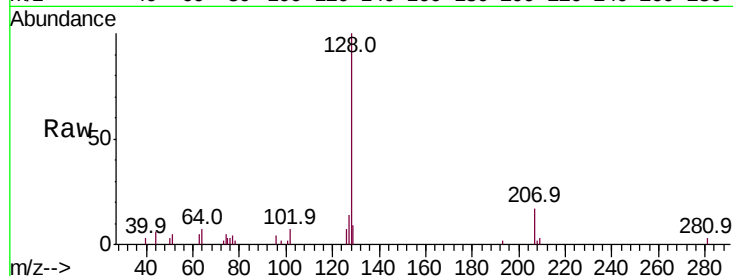
#95
Naphthalene
Concen: 1.956 ug/l
RT: 15.12 min Scan# 4152
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

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

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.0	15.0
129	8.8	8.7	13.1

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#96
1,2,3-Trichlorobenzene
Concen: 2.278 ug/l
RT: 15.29 min Scan# 4204
Delta R.T. -0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.2	48.0	144.2
145	30.7	15.0	45.0

