

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092518\
 Data File : VN051481.D
 Acq On : 25 Sep 2018 13:13
 Operator : MD\SY
 Sample : J4870-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PT-VOA-WP

Quant Time: Sep 26 11:07:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 26 01:56:49 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	104858	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	570456	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	513177	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	221000	30.81	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.70%
60) 4-Bromofluorobenzene	12.40	95	231818	29.92	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.73%
63) Toluene-d8	10.09	98	748764	30.45	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.50%

Target Compounds

					Ovalue
3) Chloromethane	2.06	50	9692	1.093	ug/l 98
4) Vinyl Chloride	2.18	62	525145	55.065	ug/l 100
5) Bromomethane	2.57	94	437031	70.491	ug/l 86
6) Chloroethane	2.71	64	211354	35.759	ug/l 97
11) Methyl Iodide	3.95	142	1921	0.223	ug/l # 61
12) Methyl Acetate	4.34	43	1263	0.251	ug/l # 62
14) Acrylonitrile	5.03	53	8468	4.113	ug/l # 42
15) Acetone	3.82	58	59566	118.655	ug/l 85
16) Carbon Disulfide	4.05	76	4160	0.229	ug/l # 94
18) Methylene Chloride	4.55	84	186086	26.999	ug/l 96
19) trans-1,2-Dichloroethene	5.04	96	139417	22.236	ug/l 95
21) 1,1-Dichloroethane	5.85	63	614462	50.137	ug/l 95
23) tert-Butyl Alcohol	5.05	59	11661	30.284	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	1476412	94.010	ug/l # 63
25) Chloroform	7.37	83	591152	48.208	ug/l 94
29) 1,1-Dichloropropene	8.04	75	37209	3.930	ug/l # 1
30) 2-Butanone	6.84	43	393101	163.288	ug/l # 97
32) 1,1,1-Trichloroethane	7.57	97	166280	15.377	ug/l 97
33) Carbon Tetrachloride	7.57	117	22513	2.281	ug/l 95
34) Benzene	8.04	78	2068163	73.366	ug/l # 62
37) Trichloroethene	8.84	130	476266	64.027	ug/l 97
39) 1,2-Dichloropropane	9.12	63	602744	78.604	ug/l 97
40) Dibromomethane	9.21	93	463919	106.313	ug/l 98
43) Ethyl Acetate	6.84	43	393101	77.564	ug/l # 66
45) 1,4-Dioxane	9.21	88	2243	37.780	ug/l # 24
49) cis-1,3-Dichloropropene	9.84	75	1057322	96.096	ug/l 96
53) Dibromochloromethane	10.90	129	427238	59.704	ug/l 98
54) 1,2-Dibromoethane	11.01	107	503102	84.208	ug/l 98
56) Bromoform	12.13	173	389920	81.312	ug/l 94
58) 4-Methyl-2-Pentanone	9.99	43	683701	128.881	ug/l 96
59) 2-Hexanone	10.75	43	382349	110.700	ug/l 98
61) Tetrachloroethene	10.63	164	357785	50.855	ug/l 94
62) Toluene	10.16	91	1464435	47.274	ug/l 99
64) Chlorobenzene	11.43	112	723408	38.160	ug/l 96
65) 1,1,1,2-Tetrachloroethane	11.51	131	893180	121.685	ug/l 99
66) Ethyl Benzene	11.51	91	471917	14.825	ug/l 99
67) m/p-Xylenes	11.62	106	445596	36.004	ug/l 97

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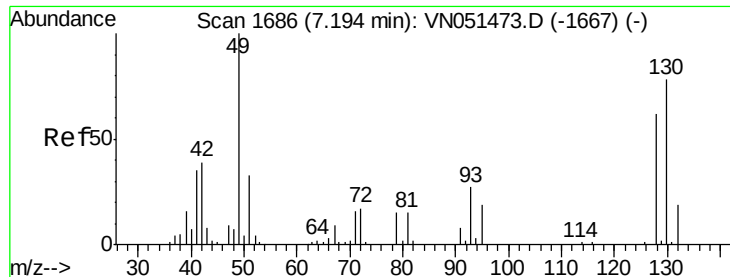
Instrument :
 MSVOA_N
 ClientSampleId :
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Quant Time: Sep 26 11:07:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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 Response via : Initial Calibration

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

68) o-Xylene	11.95	106	875222	74.413	ug/l	95
69) Styrene	11.96	104	2068388	111.042	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.50	83	898920	122.953	ug/l	96
72) 1,2,3-Trichloropropane	12.55	75	747842	118.110	ug/l	1
76) 1,3,5-Trimethylbenzene	12.73	105	1276736	48.958	ug/l	100
78) 4-Chlorotoluene	12.73	91	134258	6.261	ug/l	43
79) tert-butylbenzene	13.04	119	272990	12.086	ug/l	75
80) 1,2,4-Trimethylbenzene	13.04	105	2108517	80.163	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	1462338	105.923	ug/l	97
84) 1,4-Dichlorobenzene	13.36	146	1071168	82.482	ug/l	98
86) Hexachloroethane	13.87	117	7353	1.377	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	721992	54.635	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.27	75	76925	71.764	ug/l #	89
89) 1,2,4-Trichlorobenzene	14.91	180	813347	127.281	ug/l	98
90) Hexachlorobutadiene	15.01	225	891222	177.388	ug/l	97
91) Naphthalene	15.13	128	1771254	110.655	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	5129	0.796	ug/l	82

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



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VN051481.D

Acq: 25 Sep 2018 13:13

Instrument :

MSVOA_N

ClientSampleId :

PT-VOA-WP

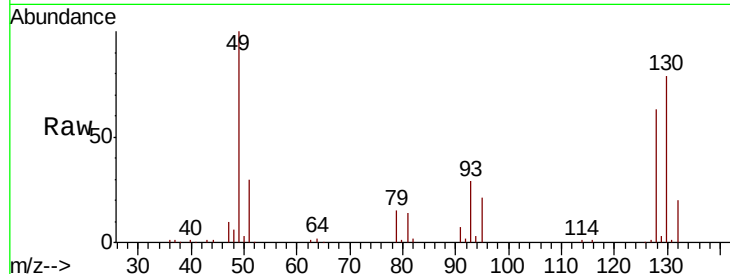
Tot Ion:128 Resp: 104858

Ion Ratio Lower Upper

128 100

49 161.2 0.0 403.3

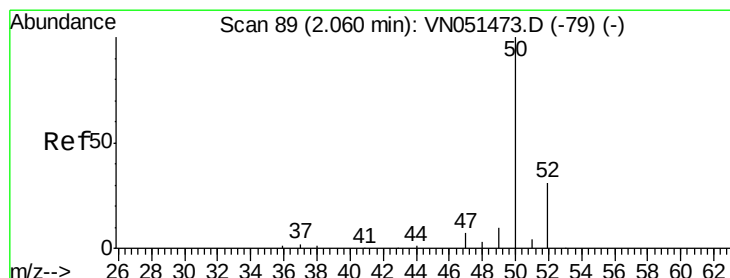
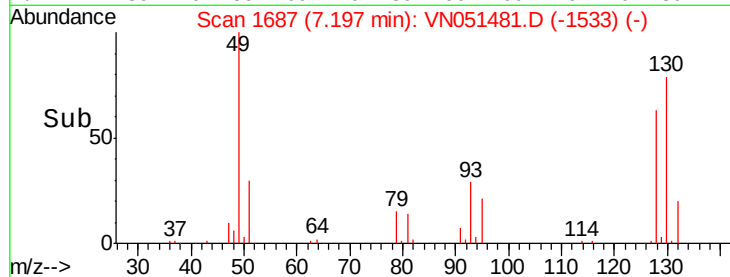
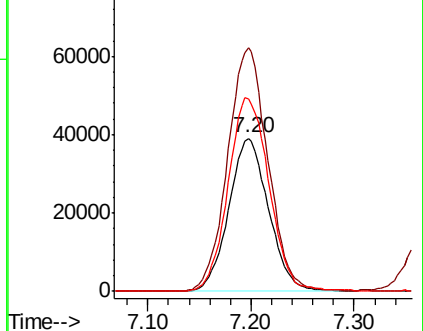
130 130.2 0.0 326.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 1.093 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN051481.D

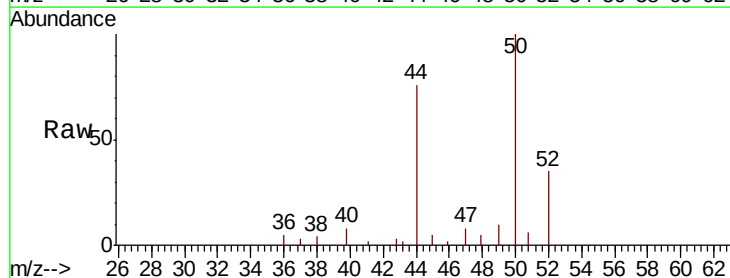
Acq: 25 Sep 2018 13:13

Tgt Ion: 50 Resp: 9692

Ion Ratio Lower Upper

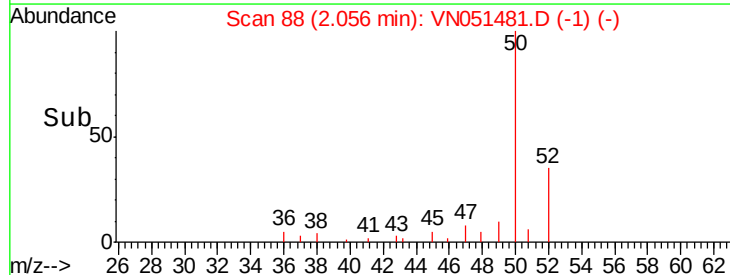
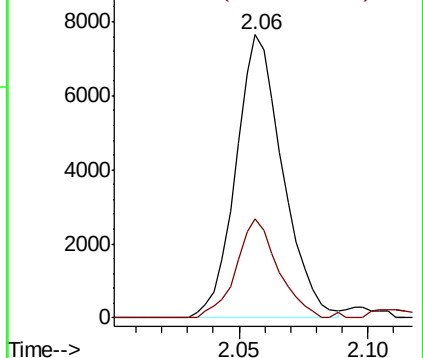
50 100

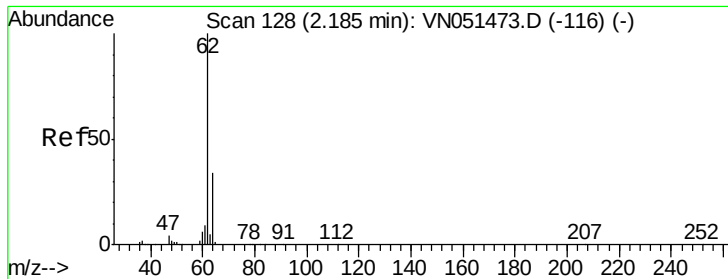
52 35.0 27.2 40.8



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#4

Vinyl Chloride

Concen: 55.065 ug/l

RT: 2.18 min Scan# 128

Delta R.T. -0.00 min

Lab File: VN051481.D

Acq: 25 Sep 2018 13:13

Instrument :

MSVOA_N

ClientSampleId :

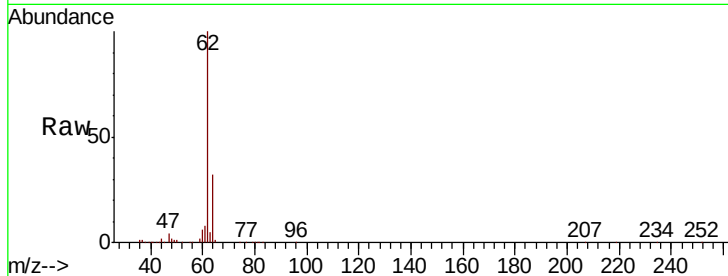
PT-VOA-WP

Tot Ion: 62 Resp: 525145

Ion Ratio Lower Upper

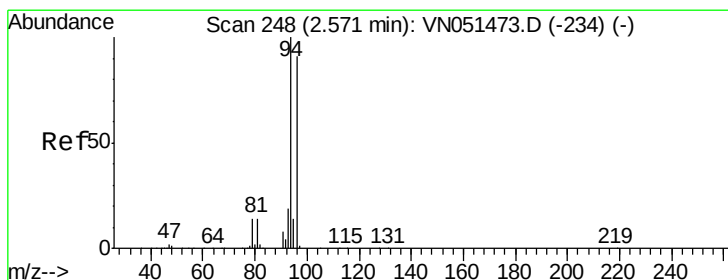
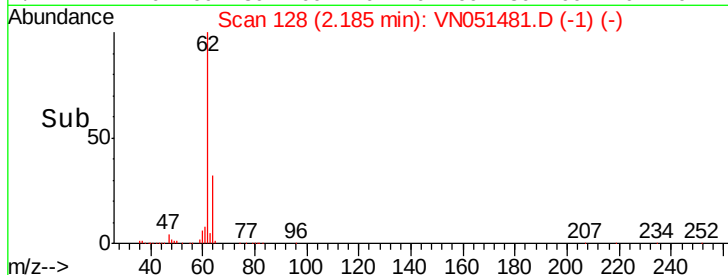
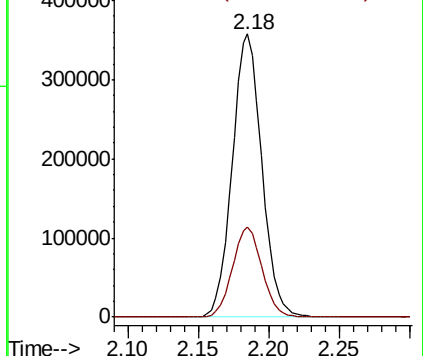
62 100

64 31.6 25.4 38.2



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0



#5

Bromomethane

Concen: 70.491 ug/l

RT: 2.57 min Scan# 247

Delta R.T. -0.00 min

Lab File: VN051481.D

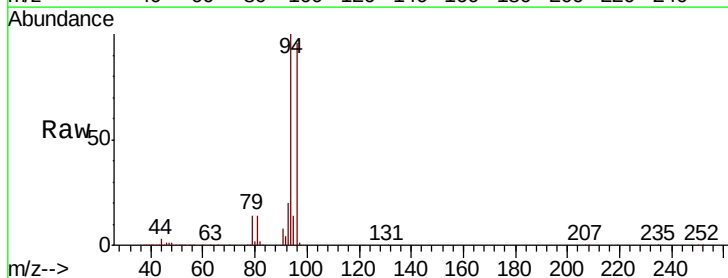
Acq: 25 Sep 2018 13:13

Tgt Ion: 94 Resp: 437031

Ion Ratio Lower Upper

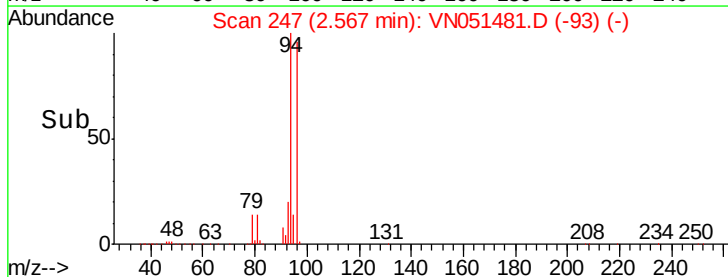
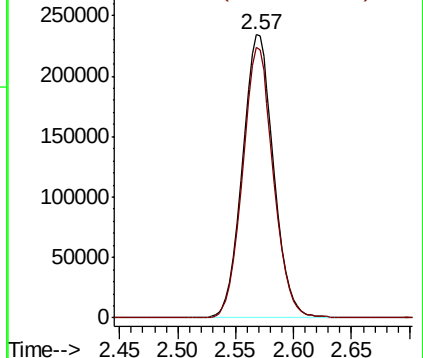
94 100

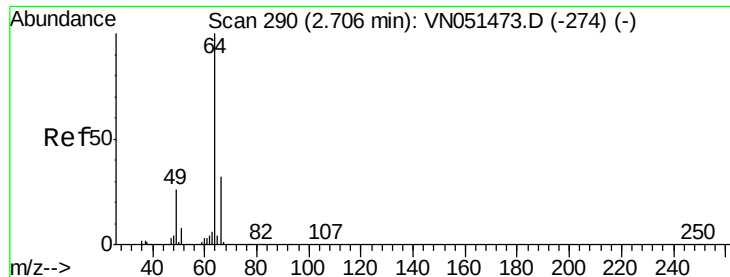
96 95.4 66.4 99.6



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0





#6

Chloroethane

Concen: 35.759 ug/l

RT: 2.71 min Scan# 290

Delta R.T. 0.00 min

Lab File: VN051481.D

Acq: 25 Sep 2018 13:13

Instrument :

MSVOA_N

ClientSampled :

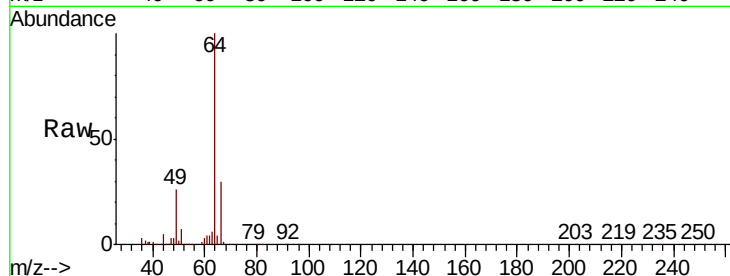
PT-VOA-WP

Tot Ion: 64 Resp: 211354

Ion Ratio Lower Upper

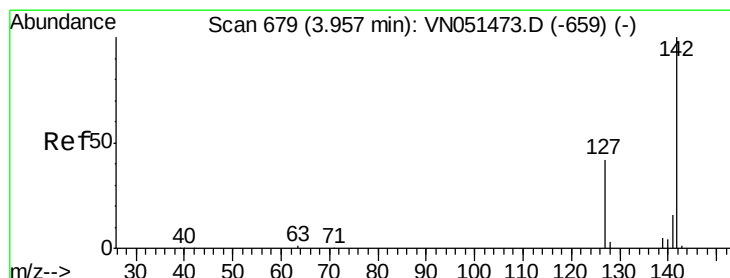
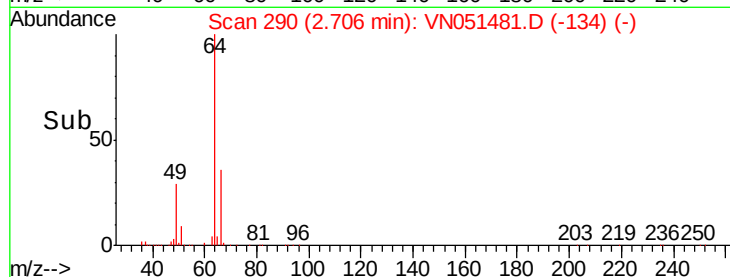
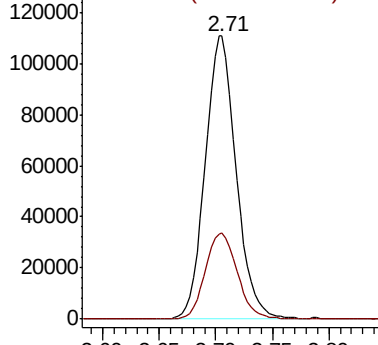
64 100

66 30.3 25.8 38.6



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0



#11

Methyl Iodide

Concen: 0.223 ug/l

RT: 3.95 min Scan# 678

Delta R.T. -0.00 min

Lab File: VN051481.D

Acq: 25 Sep 2018 13:13

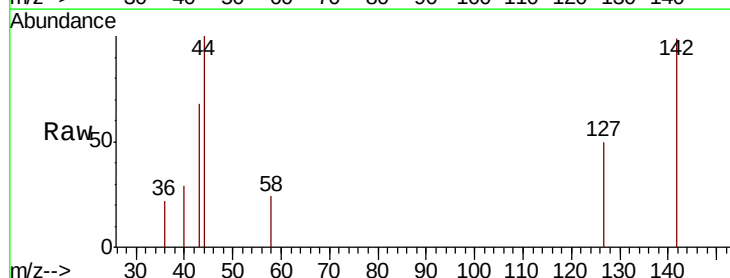
Tgt Ion: 142 Resp: 1921

Ion Ratio Lower Upper

142 100

127 64.4 19.7 59.0#

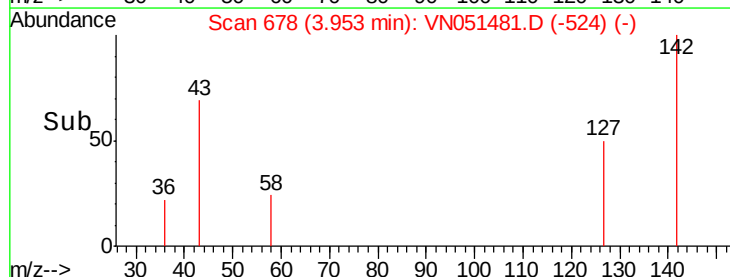
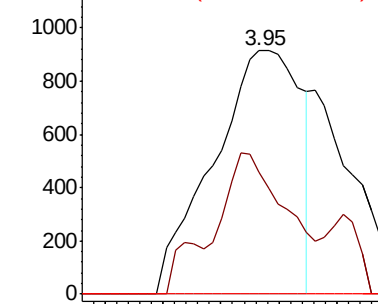
141 0.0 6.3 18.9#

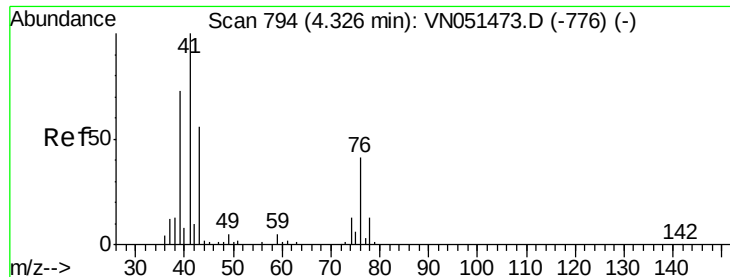


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

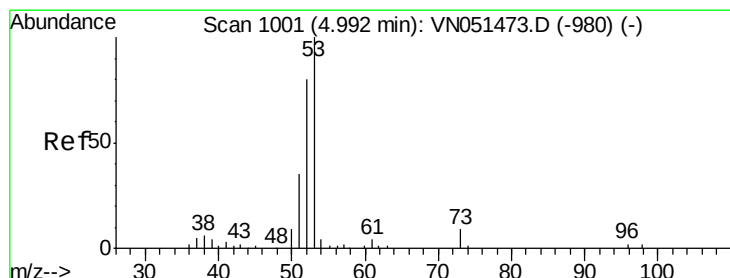
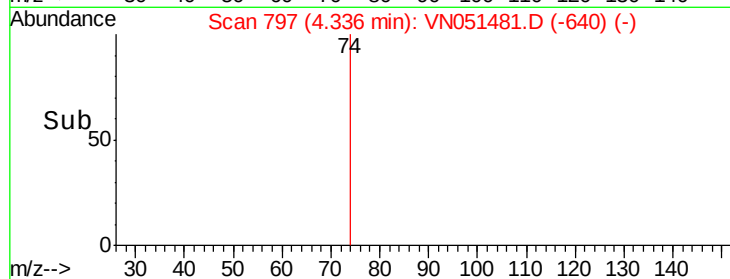
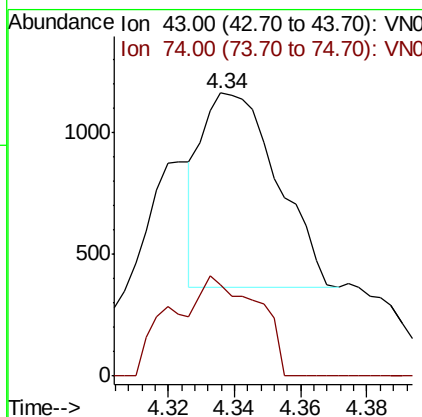
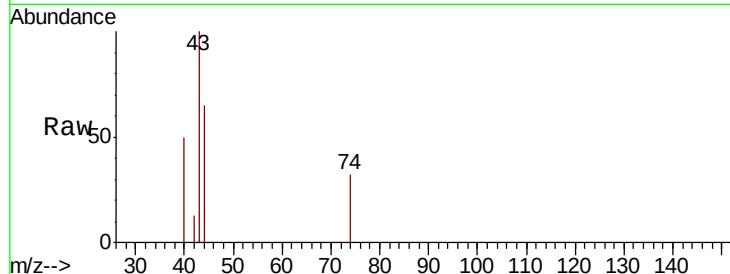




#12
Methvl Acetate
Concen: 0.251 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN051481.D
Acq: 25 Sep 2018 13:13

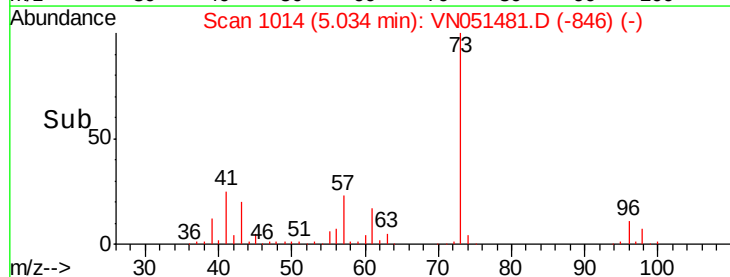
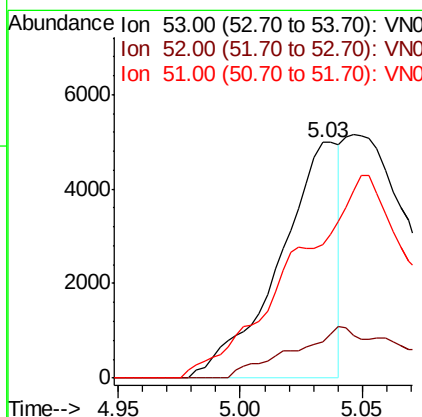
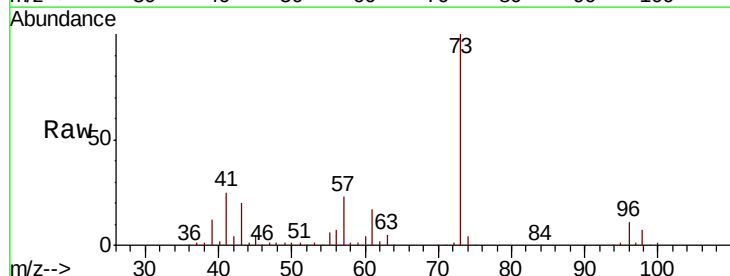
Instrument :
MSVOA_N
ClientSampled :
PT-VOA-WP

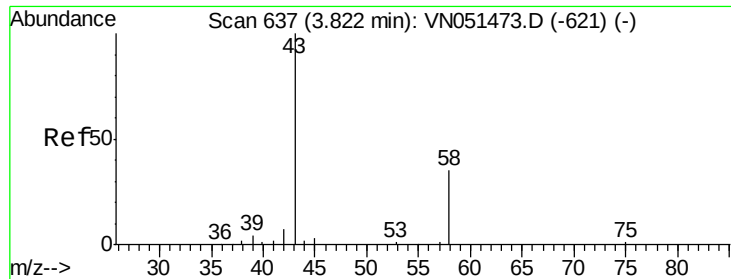
Tot Ion: 43 Resp: 1263
Ion Ratio Lower Upper
43 100
74 47.0 21.8 32.6#



#14
Acrylonitrile
Concen: 4.113 ug/l
RT: 5.03 min Scan# 1014
Delta R.T. 0.04 min
Lab File: VN051481.D
Acq: 25 Sep 2018 13:13

Tgt Ion: 53 Resp: 8468
Ion Ratio Lower Upper
53 100
52 6.7 18.3 54.8#
51 0.0 19.7 59.1#





#15

Acetone

Concen: 118.655 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.01 min

Lab File: VN051481.D

Acq: 25 Sep 2018 13:13

Instrument :

MSVOA_N

ClientSampleId :

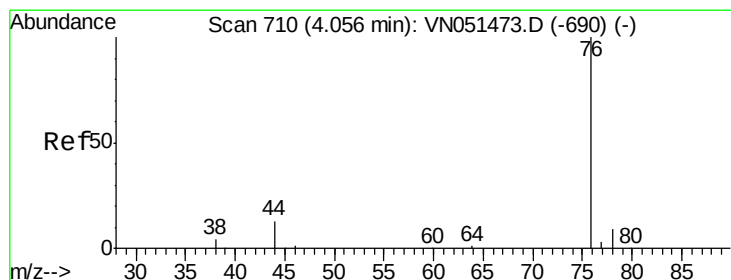
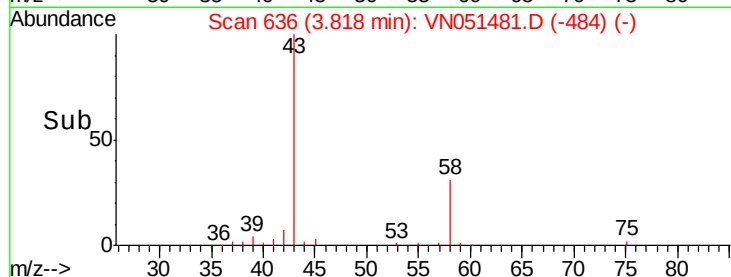
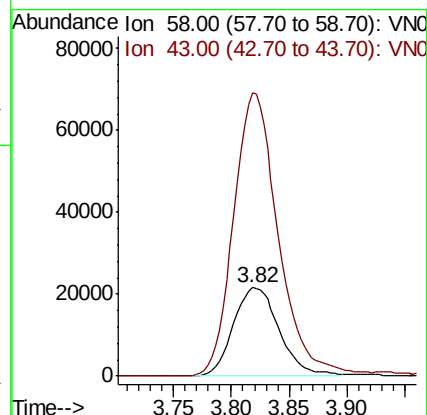
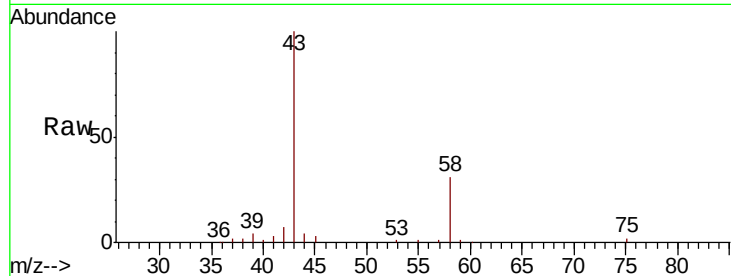
PT-VOA-WP

Tot Ion: 58 Resp: 59566

Ion Ratio Lower Upper

58 100

43 319.5 232.2 348.2



#16

Carbon Disulfide

Concen: 0.229 ug/l

RT: 4.05 min Scan# 709

Delta R.T. -0.00 min

Lab File: VN051481.D

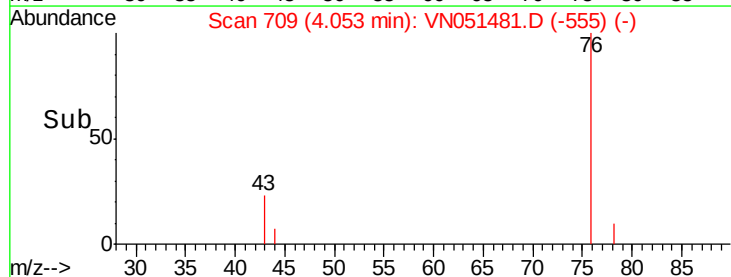
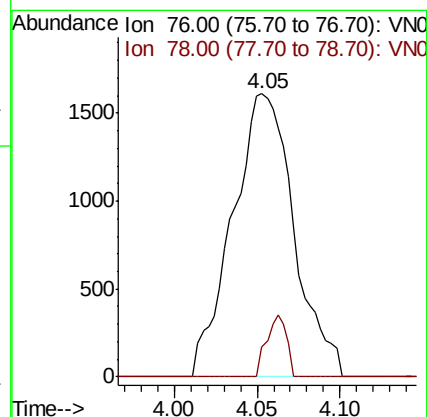
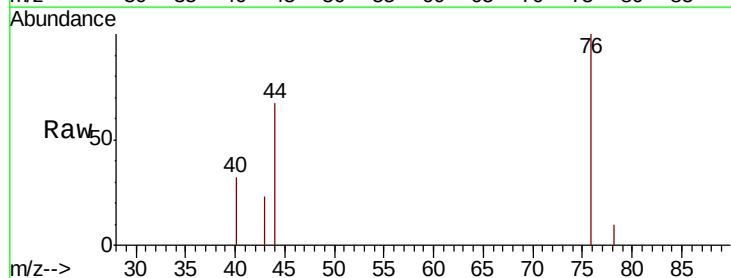
Acq: 25 Sep 2018 13:13

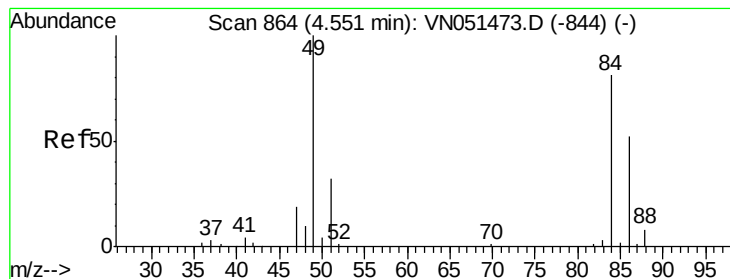
Tgt Ion: 76 Resp: 4160

Ion Ratio Lower Upper

76 100

78 10.5 6.7 10.1#





#18

Methylene Chloride

Concen: 26.999 ug/l

RT: 4.55 min Scan# 865

Delta R.T. -0.00 min

Lab File: VN051481.D

Acq: 25 Sep 2018 13:13

Instrument :

MSVOA_N

ClientSampled :

PT-VOA-WP

Tot Ion: 84 Resp: 186086

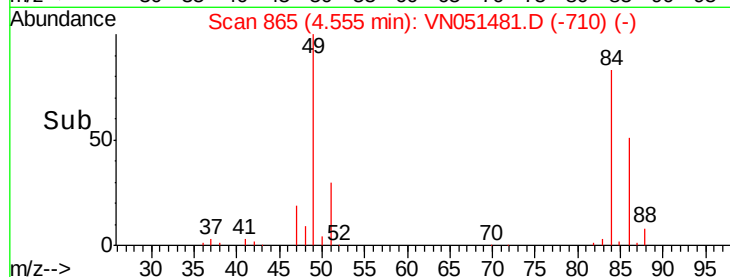
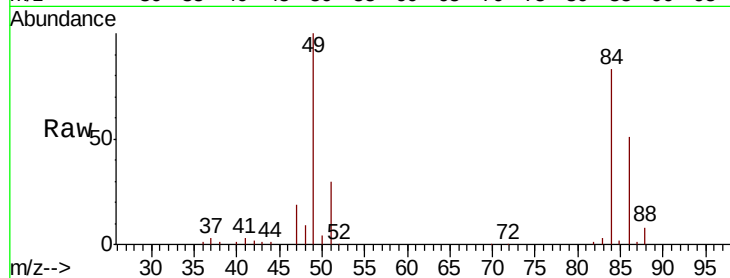
Ion Ratio Lower Upper

84 100

49 120.9 91.6 137.4

51 36.0 29.8 44.6

86 61.3 48.2 72.4

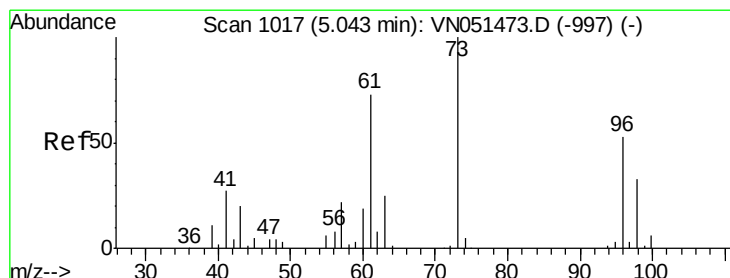
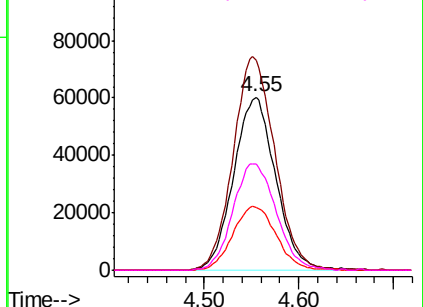


Abundance Ion 84.00 (83.70 to 84.70): VN0

Ion 49.00 (48.70 to 49.70): VN0

Ion 51.00 (50.70 to 51.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#19

trans-1,2-Dichloroethene

Concen: 22.236 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. -0.00 min

Lab File: VN051481.D

Acq: 25 Sep 2018 13:13

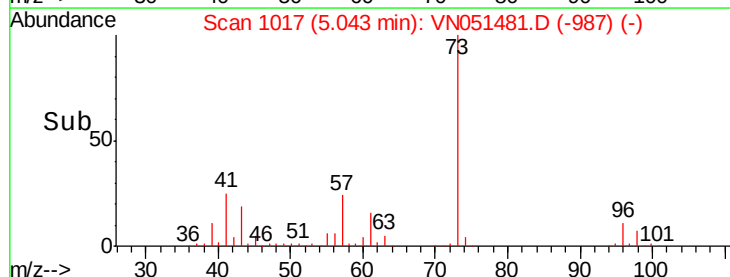
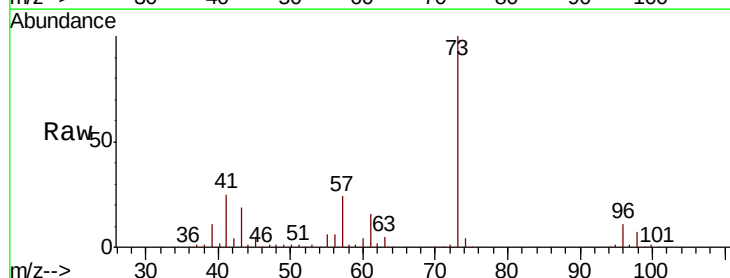
Tgt Ion: 96 Resp: 139417

Ion Ratio Lower Upper

96 100

61 145.5 112.3 168.5

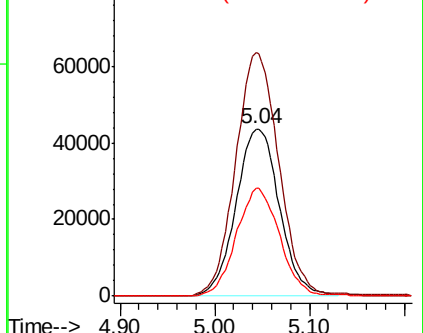
98 64.5 47.1 70.7

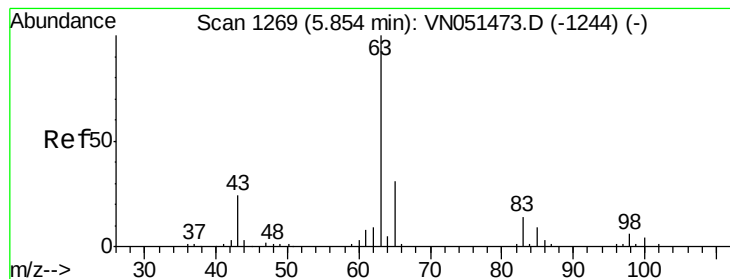


Abundance Ion 96.00 (95.70 to 96.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 98.00 (97.70 to 98.70): VN0





#21

1,1-Dichloroethane

Concen: 50.137 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VN051481.D

Acq: 25 Sep 2018 13:13

Instrument :

MSVOA_N

ClientSampleId :

PT-VOA-WP

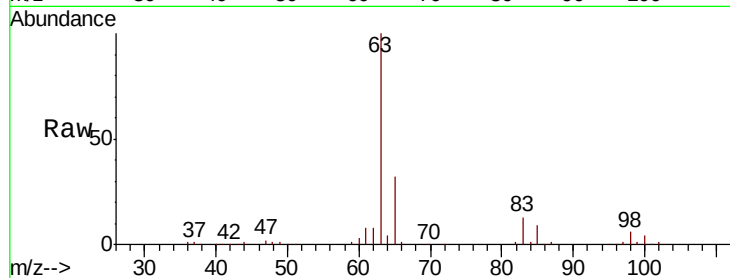
Tot Ion: 63 Resp: 614462

Ion Ratio Lower Upper

63 100

98 6.2 4.1 12.3

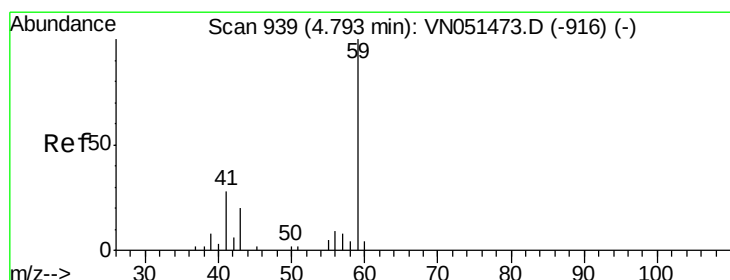
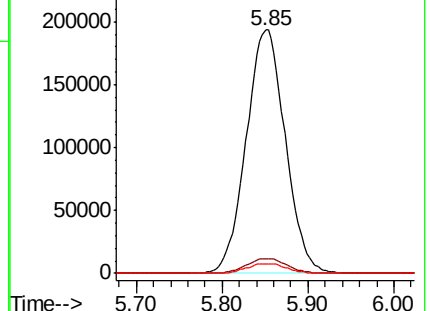
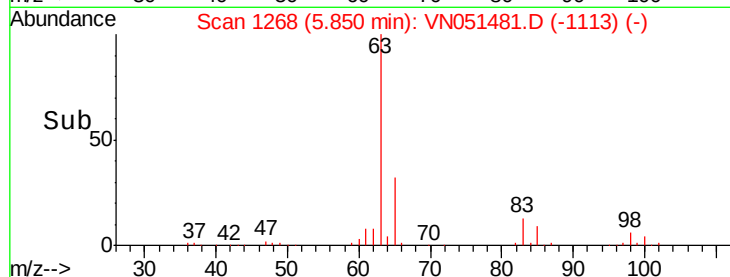
100 3.8 1.6 4.7



Abundance Ion 63.00 (62.70 to 63.70): VN051473.D (-1244) (-)

Ion 98.00 (97.70 to 98.70): VN051473.D (-1244) (-)

Ion 100.00 (99.70 to 100.70): VN051473.D (-1244) (-)



#23

tert-Butyl Alcohol

Concen: 30.284 ug/l

RT: 5.05 min Scan# 1019

Delta R.T. 0.27 min

Lab File: VN051481.D

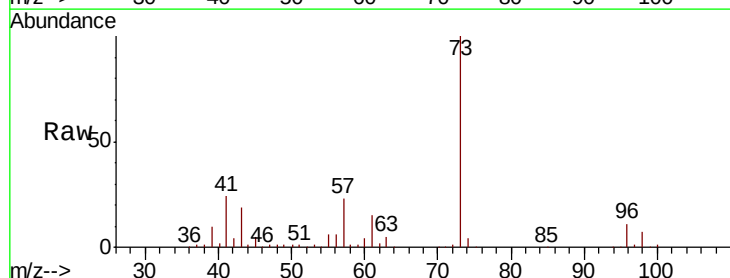
Acq: 25 Sep 2018 13:13

Tgt Ion: 59 Resp: 11661

Ion Ratio Lower Upper

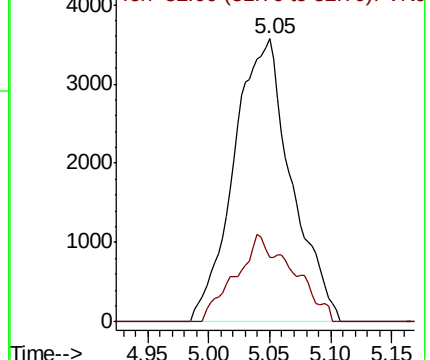
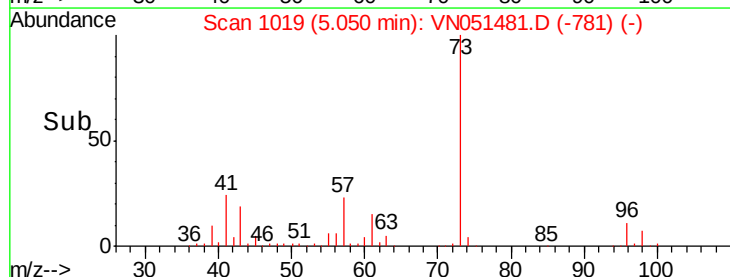
59 100

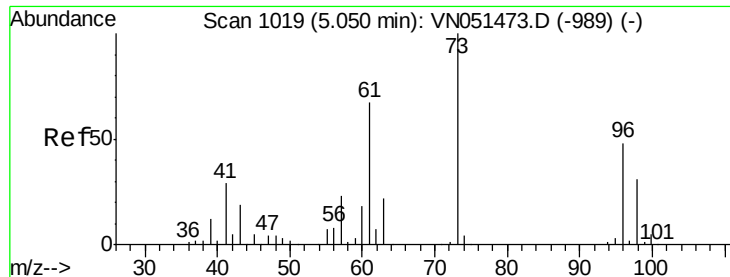
52 4.9 0.0 0.0#



Abundance Ion 59.00 (58.70 to 59.70): VN051473.D (-916) (-)

Ion 52.00 (51.70 to 52.70): VN051473.D (-916) (-)

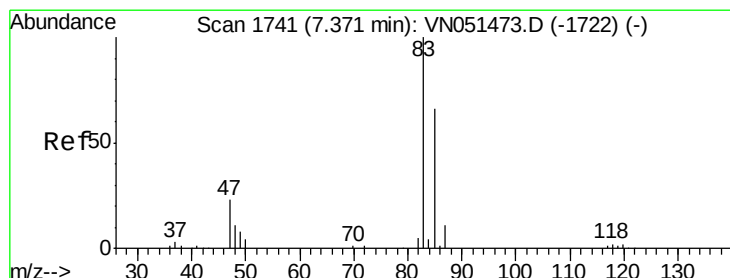
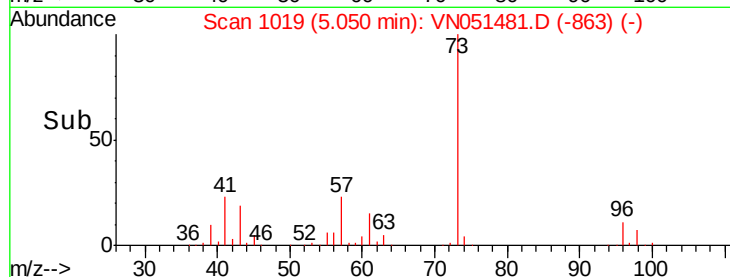
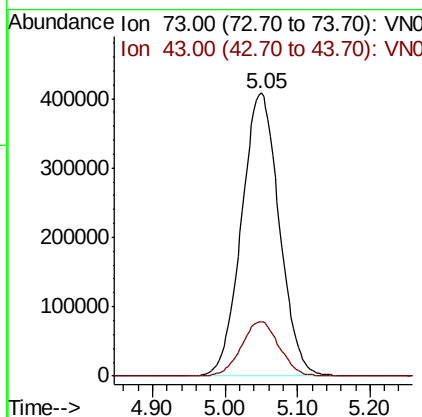
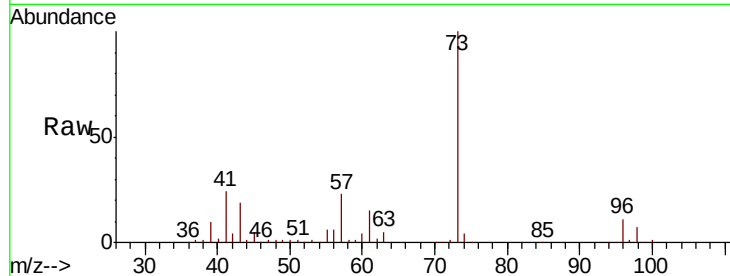




#24
Methyl tert-Butyl Ether
Concen: 94.010 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN051481.D
Acq: 25 Sep 2018 13:13

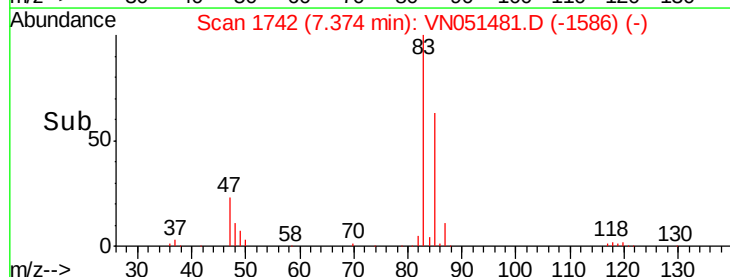
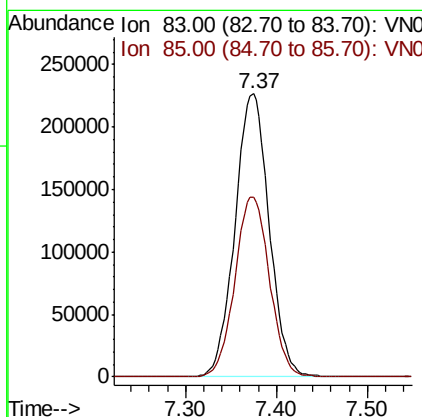
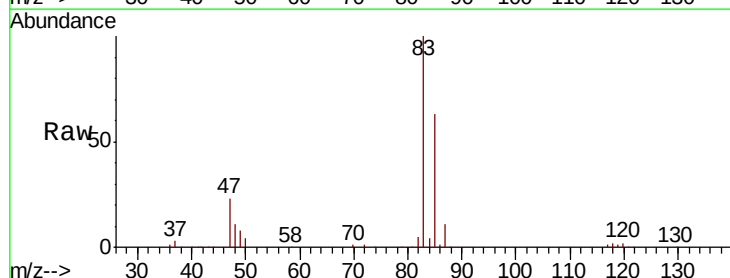
Instrument :
MSVOA_N
ClientSampled :
PT-VOA-WP

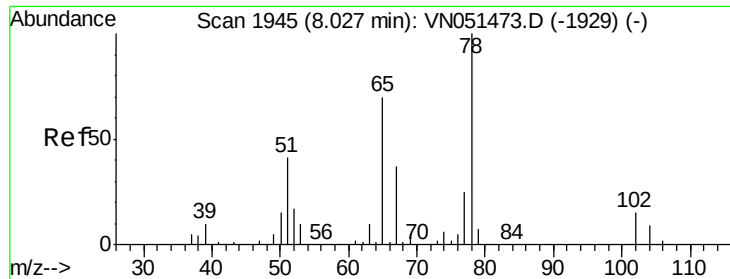
Tot Ion: 73 Resp: 1476412
Ion Ratio Lower Upper
73 100
43 19.5 5.4 8.0#



#25
Chloroform
Concen: 48.208 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN051481.D
Acq: 25 Sep 2018 13:13

Tgt Ion: 83 Resp: 591152
Ion Ratio Lower Upper
83 100
85 63.3 54.6 82.0

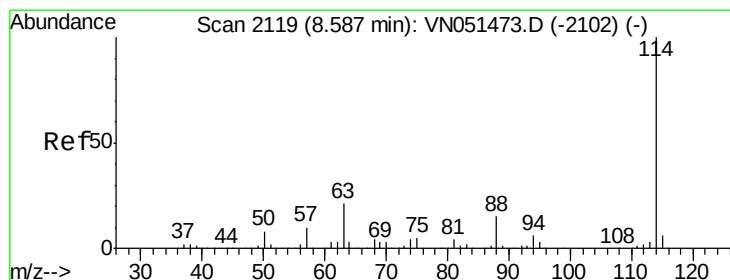
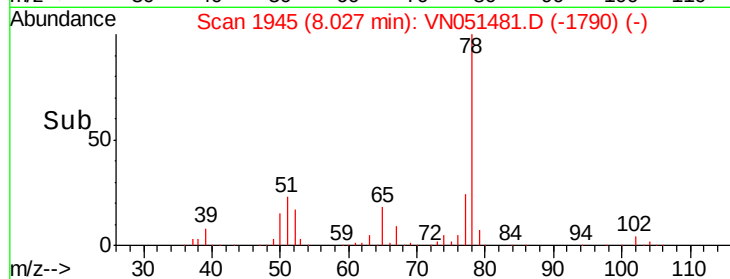
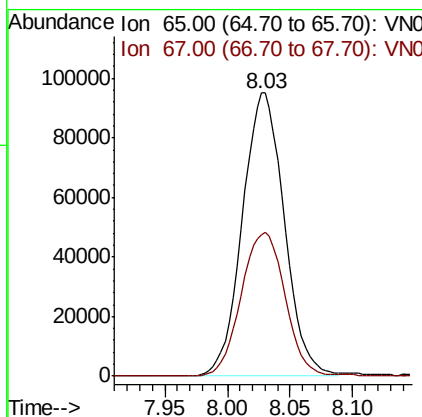
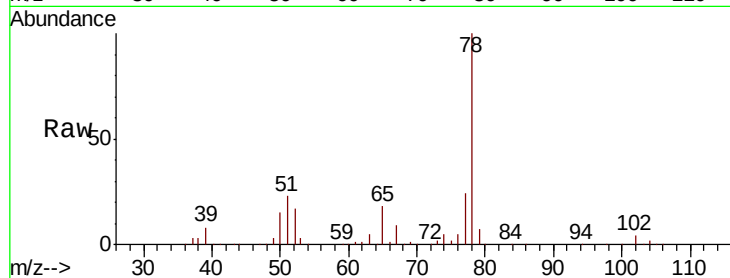




#27
 1,2-Dichloroethane-d4
 Concen: 30.805 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN051481.D
 Acq: 25 Sep 2018 13:13

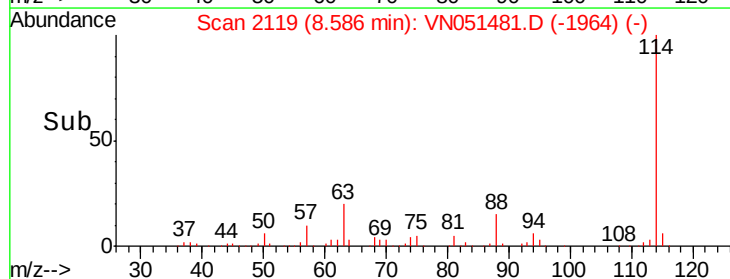
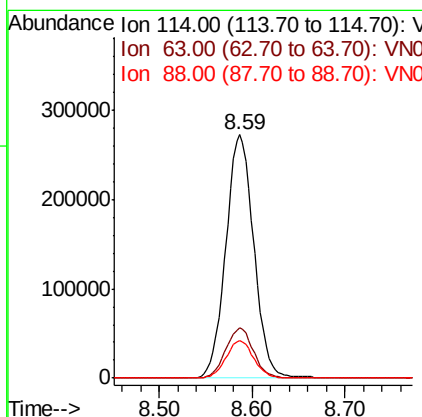
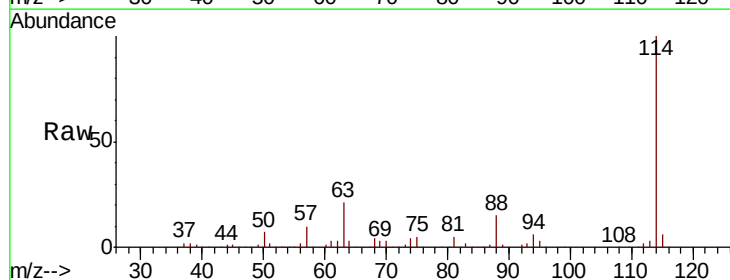
Instrument :
 MSVOA_N
 ClientSampled :
 PT-VOA-WP

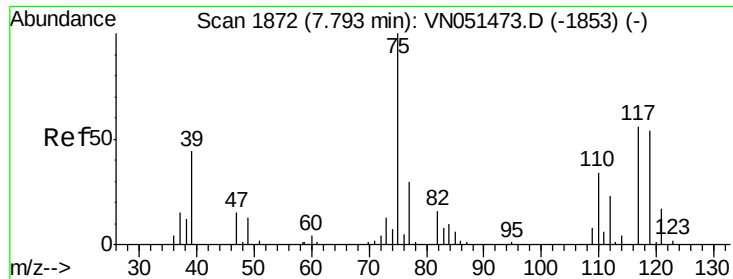
Tot Ion: 65 Resp: 221000
 Ion Ratio Lower Upper
 65 100
 67 53.0 41.8 62.8



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051481.D
 Acq: 25 Sep 2018 13:13

Tgt Ion: 114 Resp: 570456
 Ion Ratio Lower Upper
 114 100
 63 20.5 16.2 24.2
 88 15.2 12.2 18.4

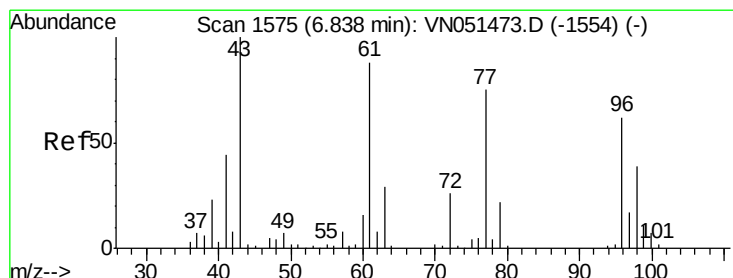
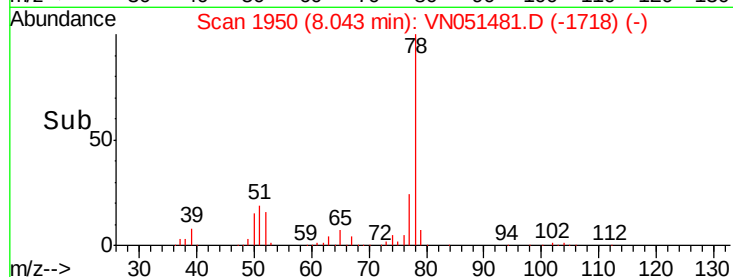
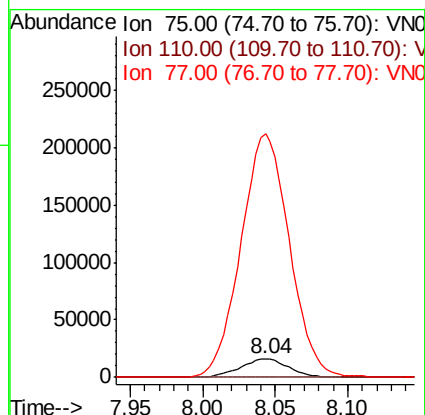
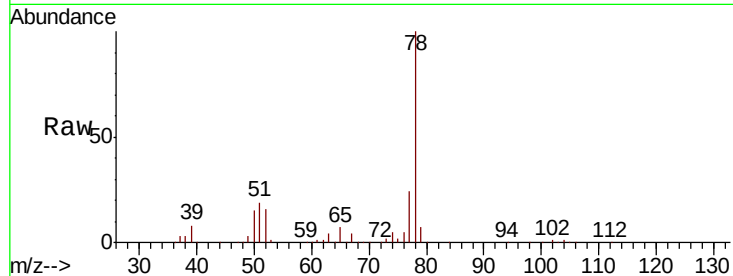




#29
 1,1-Dichloropropene
 Concen: 3.930 ug/l
 RT: 8.04 min Scan# 1950
 Delta R.T. 0.25 min
 Lab File: VN051481.D
 Acq: 25 Sep 2018 13:13

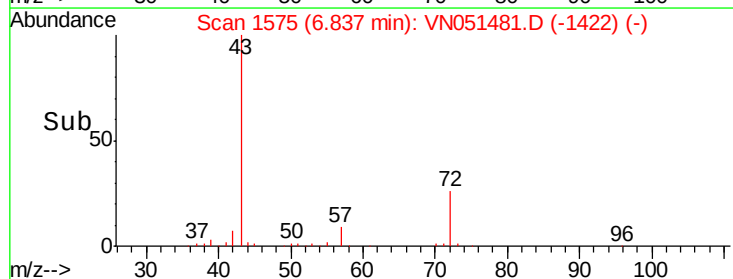
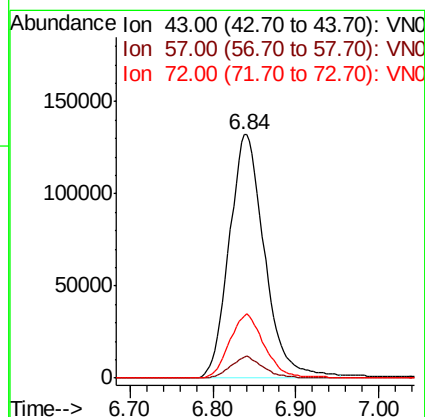
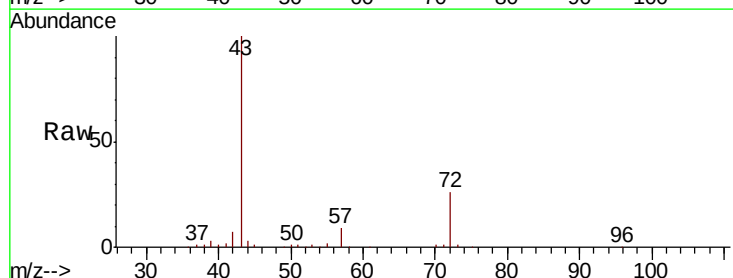
Instrument :
 MSVOA_N
 ClientSampled :
 PT-VOA-WP

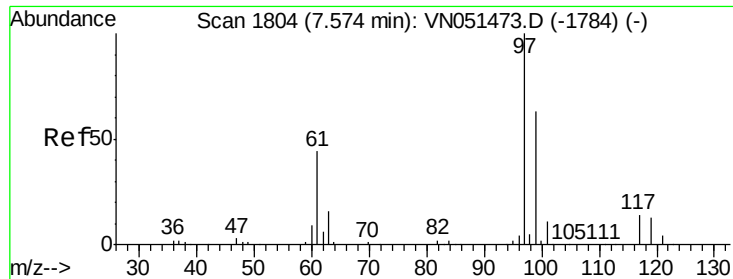
Tot Ion: 75 Resp: 37209
 Ion Ratio Lower Upper
 75 100
 110 0.0 0.0 70.8
 77 1326.8 0.0 61.6#



#30
 2-Butanone
 Concen: 163.288 ug/l
 RT: 6.84 min Scan# 1575
 Delta R.T. -0.01 min
 Lab File: VN051481.D
 Acq: 25 Sep 2018 13:13

Tgt Ion: 43 Resp: 393101
 Ion Ratio Lower Upper
 43 100
 57 8.2 4.5 6.7#
 72 25.8 21.5 32.3

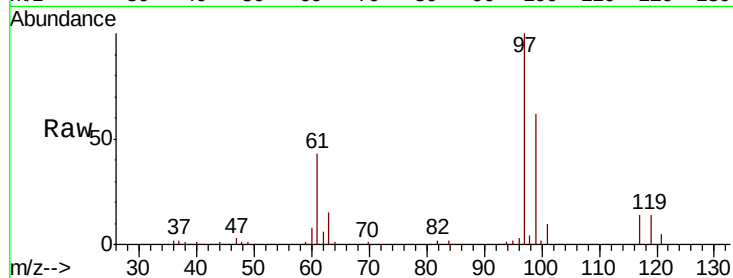




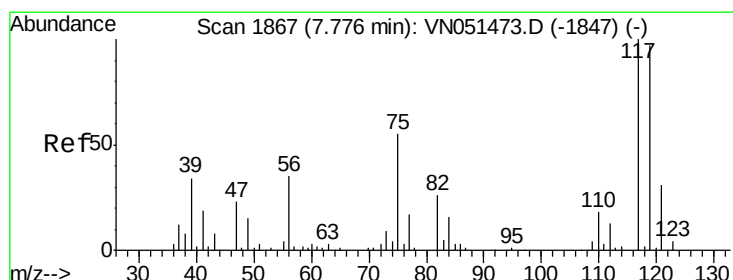
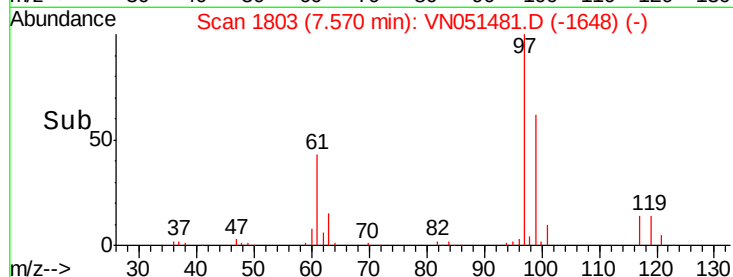
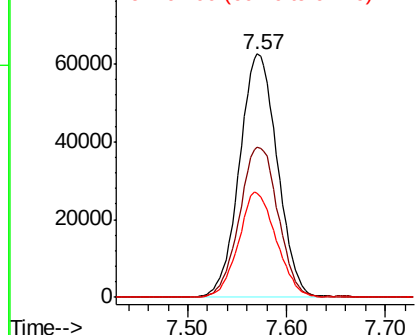
#32
 1,1,1-Trichloroethane
 Concen: 15.377 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VN051481.D
 Acq: 25 Sep 2018 13:13

Instrument :
 MSVOA_N
 ClientSampleId :
 PT-VOA-WP

Tot Ion: 97 Resp: 166280
 Ion Ratio Lower Upper
 97 100
 99 62.9 51.6 77.4
 61 43.3 37.4 56.0

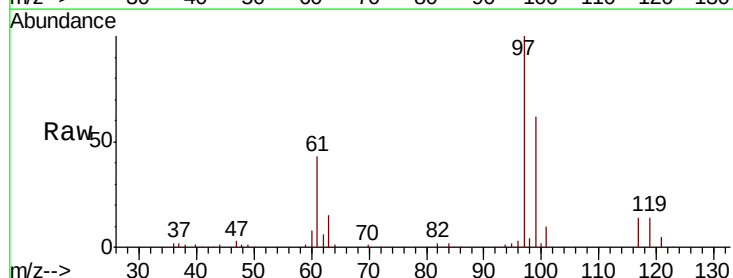


Abundance Ion 97.00 (96.70 to 97.70): VN0
 Ion 99.00 (98.70 to 99.70): VN0
 Ion 61.00 (60.70 to 61.70): VN0

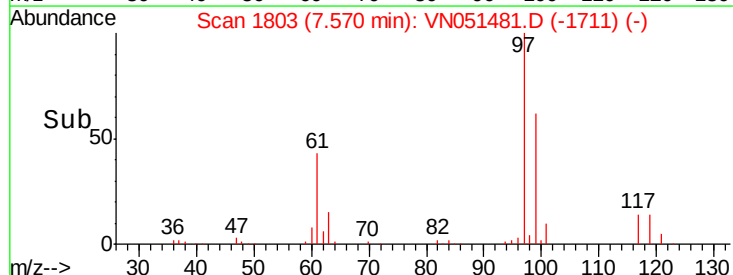
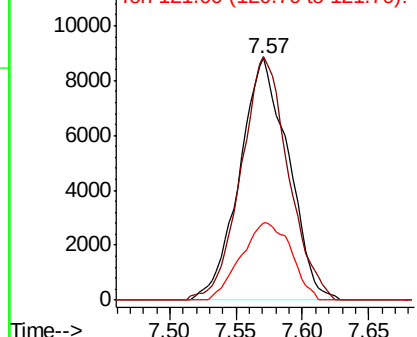


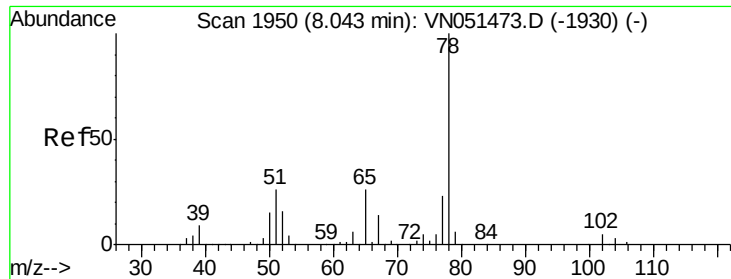
#33
 Carbon Tetrachloride
 Concen: 2.281 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. -0.20 min
 Lab File: VN051481.D
 Acq: 25 Sep 2018 13:13

Tgt Ion: 117 Resp: 22513
 Ion Ratio Lower Upper
 117 100
 119 100.6 85.1 127.7
 121 32.0 24.2 36.2



Abundance Ion 117.00 (116.70 to 117.70): V
 Ion 119.00 (118.70 to 119.70): V
 Ion 121.00 (120.70 to 121.70): V





#34

Benzene

Concen: 73.366 ug/l

RT: 8.04 min Scan# 1950

Delta R.T. -0.00 min

Lab File: VN051481.D

Acq: 25 Sep 2018 13:13

Instrument :

MSVOA_N

ClientSampleId :

PT-VOA-WP

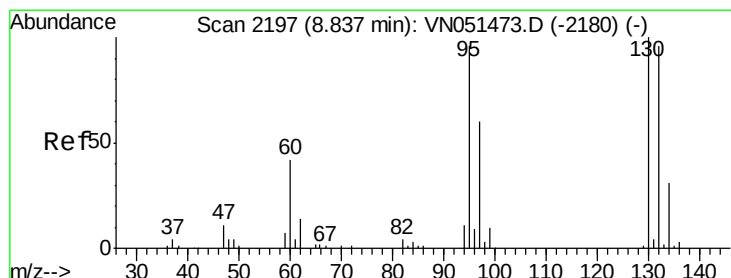
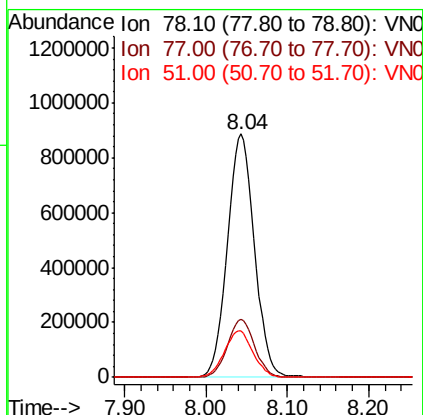
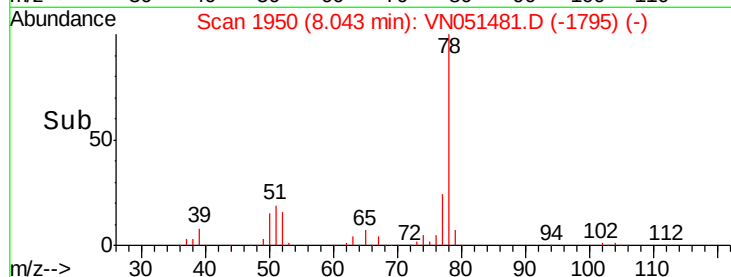
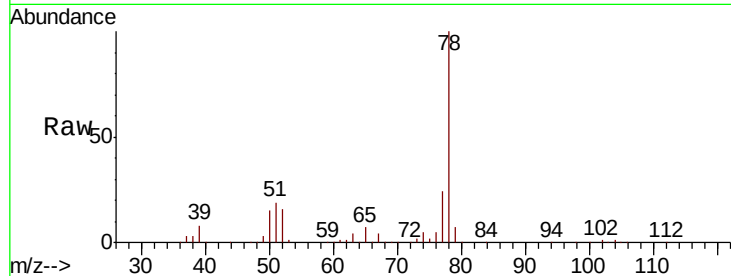
Tot Ion: 78 Resp: 2068163

Ion Ratio Lower Upper

78 100

77 23.9 18.8 28.2

51 18.9 46.2 69.4#



#37

Trichloroethene

Concen: 64.027 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN051481.D

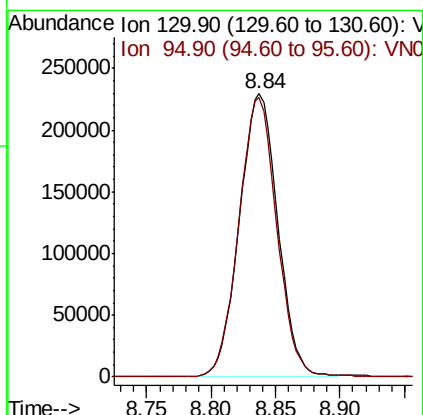
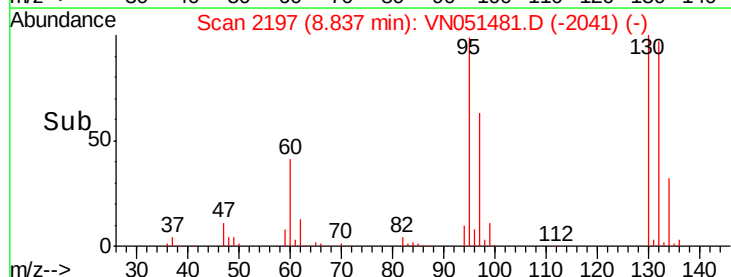
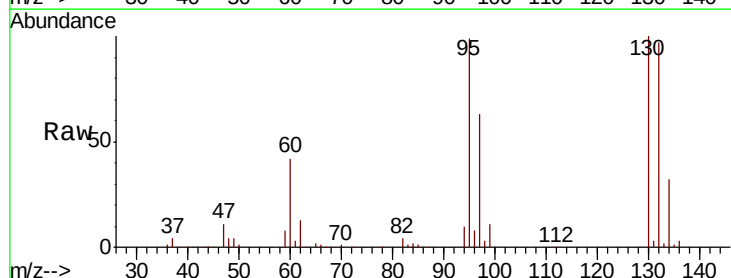
Acq: 25 Sep 2018 13:13

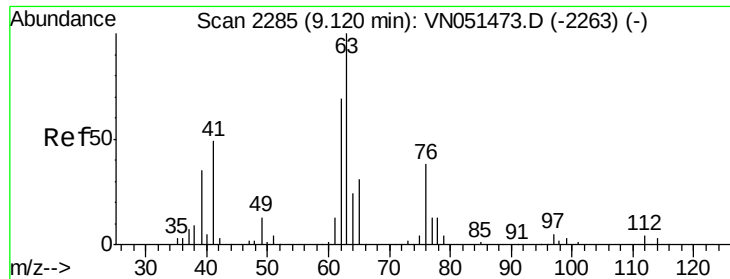
Tgt Ion:130 Resp: 476266

Ion Ratio Lower Upper

130 100

95 98.6 76.4 114.6

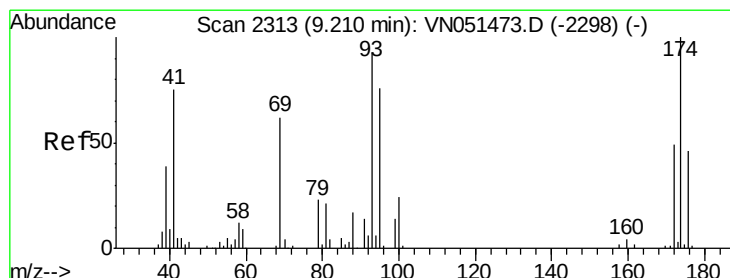
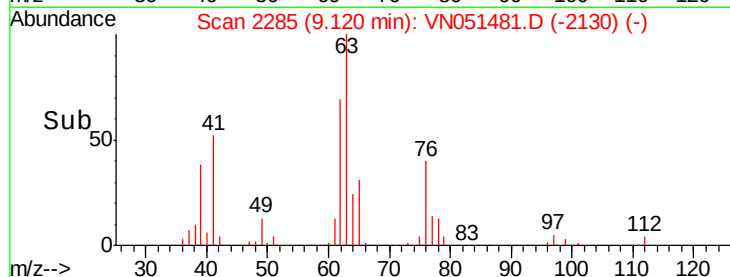
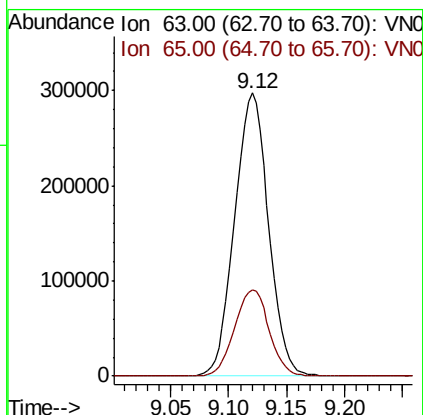
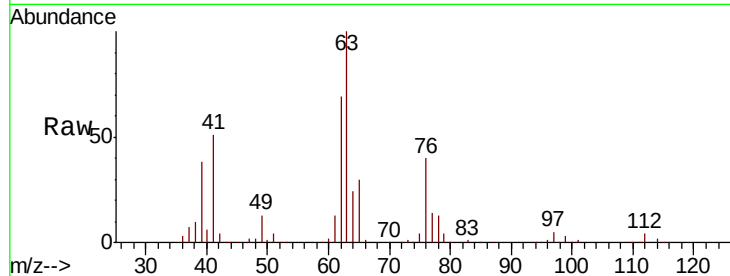




#39
 1,2-Dichloropropane
 Concen: 78.604 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN051481.D
 Acq: 25 Sep 2018 13:13

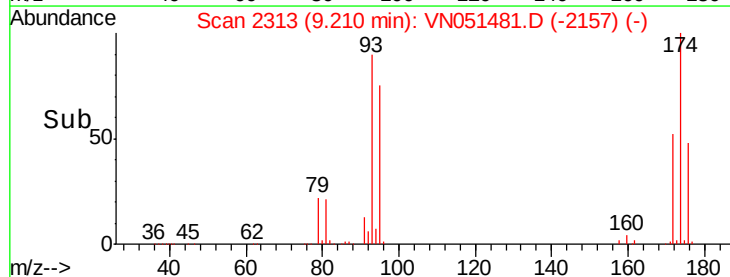
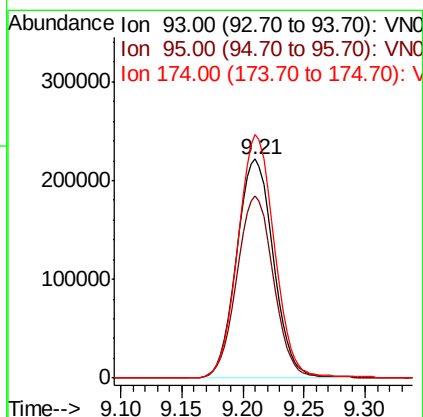
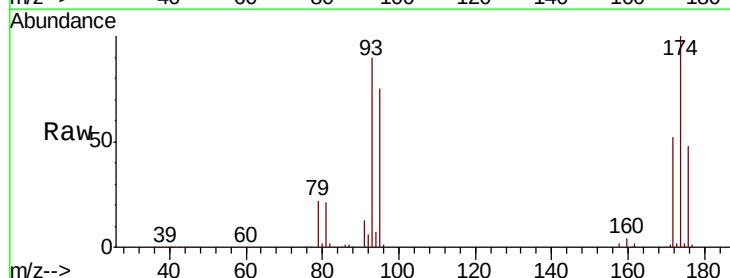
Instrument :
 MSVOA_N
 ClientSampleId :
 PT-VOA-WP

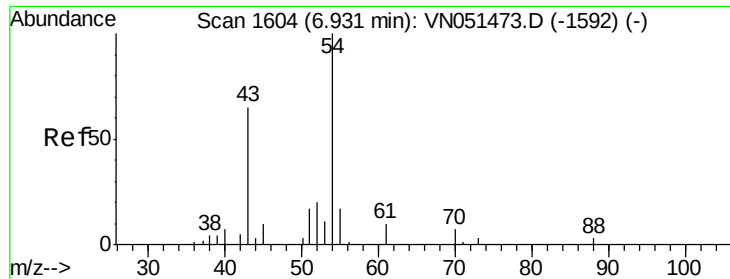
Tot Ion: 63 Resp: 602744
 Ion Ratio Lower Upper
 63 100
 65 30.3 23.2 34.8



#40
 Dibromomethane
 Concen: 106.313 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN051481.D
 Acq: 25 Sep 2018 13:13

Tgt Ion: 93 Resp: 463919
 Ion Ratio Lower Upper
 93 100
 95 82.6 0.0 162.0
 174 110.2 0.0 214.0





#43

Ethyl Acetate

Concen: 77.564 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. -0.09 min

Lab File: VN051481.D

Acq: 25 Sep 2018 13:13

Instrument :

MSVOA_N

ClientSampled :

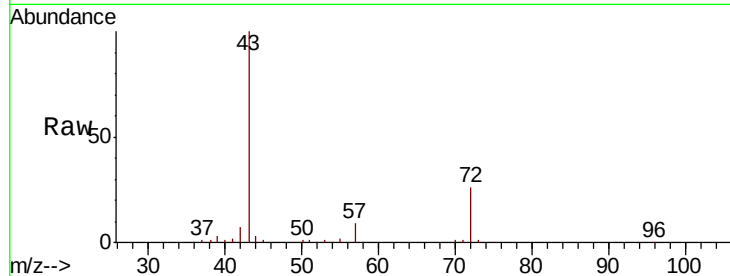
PT-VOA-WP

Tot Ion: 43 Resp: 393101

Ion Ratio Lower Upper

43 100

45 0.0 11.0 16.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 45.00 (44.70 to 45.70): VN0

6.84

150000

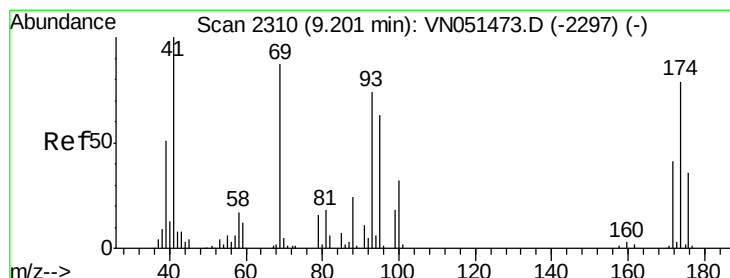
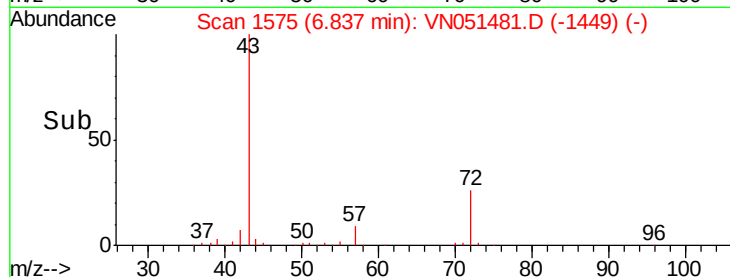
100000

50000

0

Time-->

6.70 6.80 6.90 7.00



#45

1,4-Dioxane

Concen: 37.780 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. -0.00 min

Lab File: VN051481.D

Acq: 25 Sep 2018 13:13

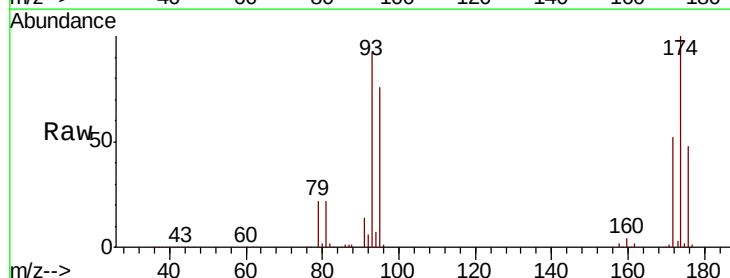
Tgt Ion: 88 Resp: 2243

Ion Ratio Lower Upper

88 100

43 11.9 26.2 39.2#

58 0.0 65.6 98.4#



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

1500

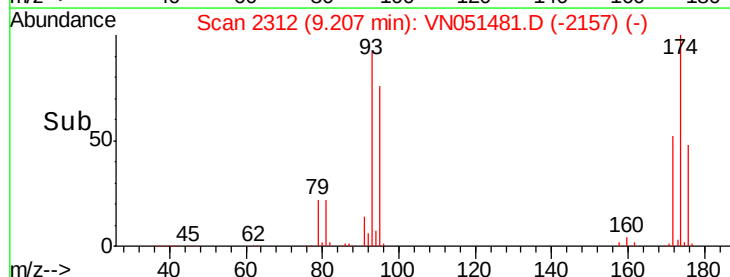
1000

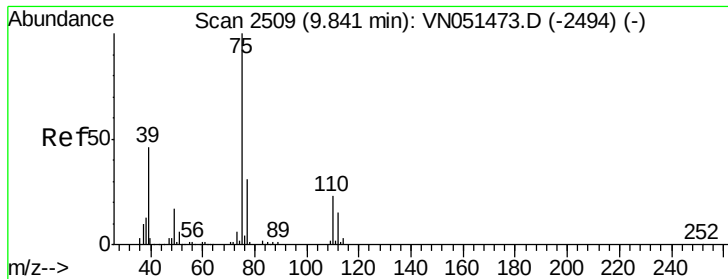
500

0

Time-->

9.20 9.25



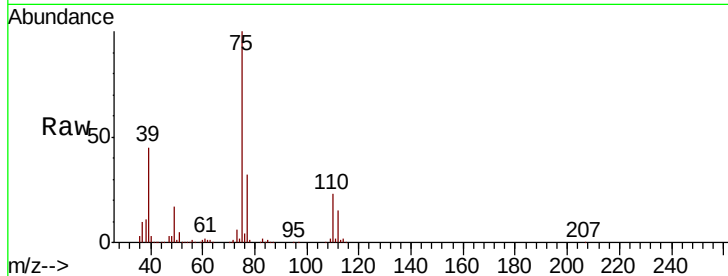


#49

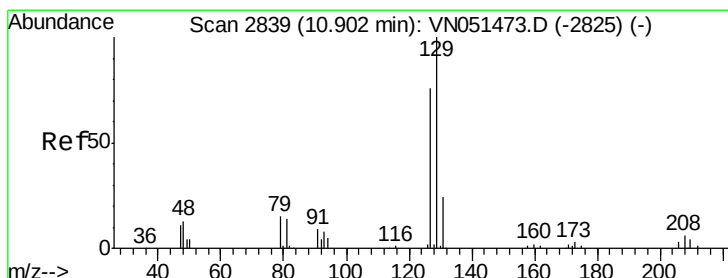
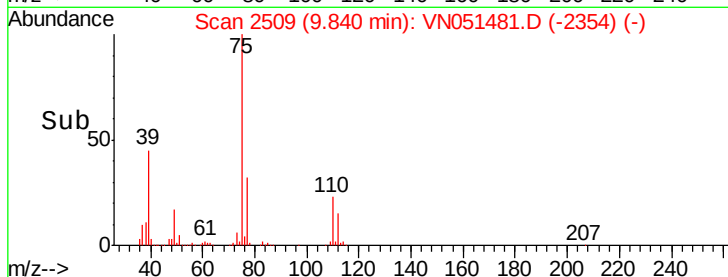
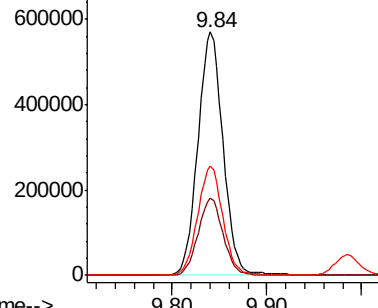
cis-1,3-Dichloropropene
Concen: 96.096 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. -0.00 min
Lab File: VN051481.D
Acq: 25 Sep 2018 13:13

Instrument :
MSVOA_N
ClientSampleId :
PT-VOA-WP

Tot Ion: 75 Resp: 1057322
Ion Ratio Lower Upper
75 100
77 31.6 23.2 34.8
39 45.0 34.6 52.0



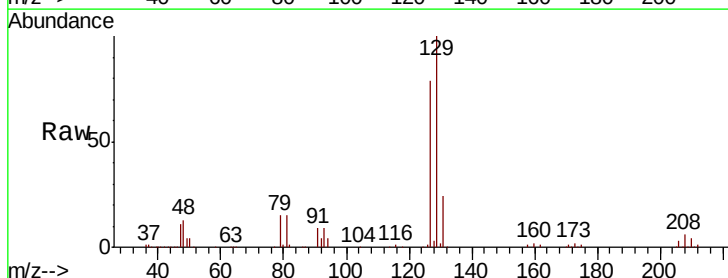
Abundance Ion 75.00 (74.70 to 75.70): VN0
Ion 77.00 (76.70 to 77.70): VN0
Ion 39.00 (38.70 to 39.70): VN0



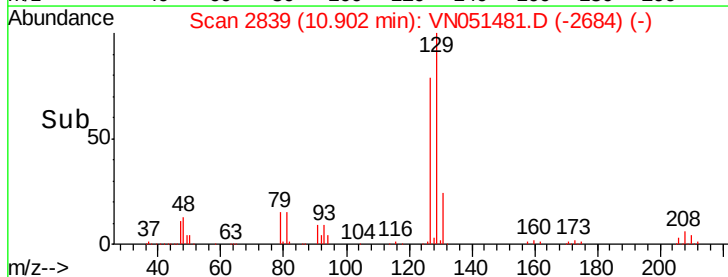
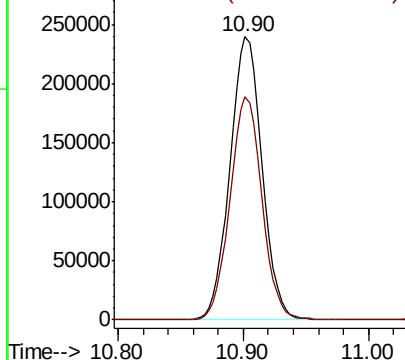
#53

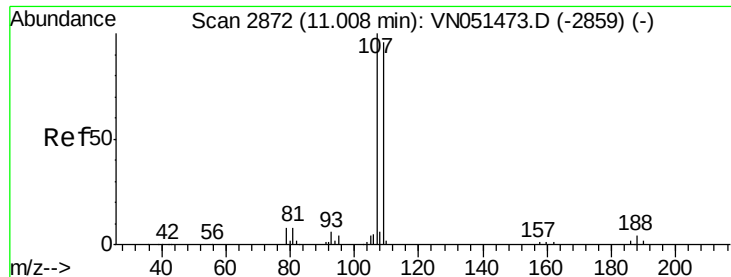
Dibromochloromethane
Concen: 59.704 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN051481.D
Acq: 25 Sep 2018 13:13

Tgt Ion: 129 Resp: 427238
Ion Ratio Lower Upper
129 100
127 78.2 40.2 120.5



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

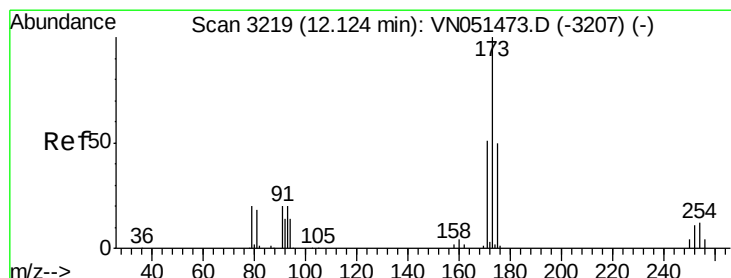
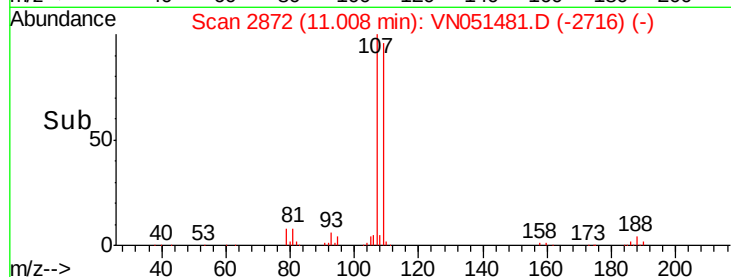
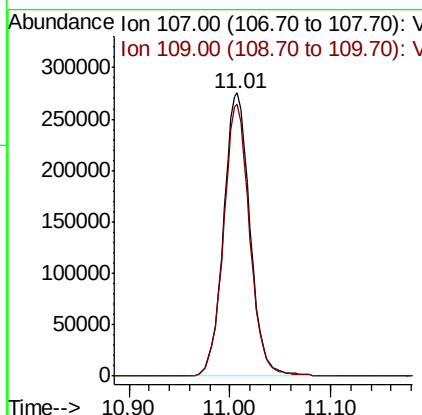
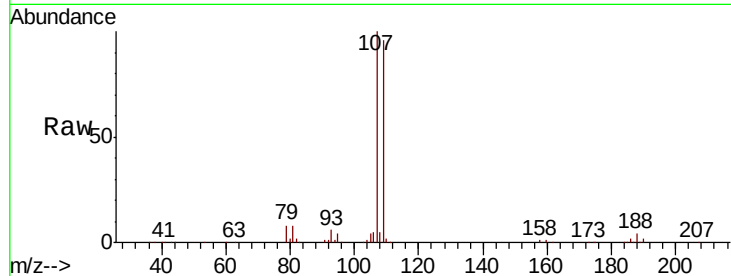




#54
 1,2-Dibromoethane
 Concen: 84.208 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN051481.D
 Acq: 25 Sep 2018 13:13

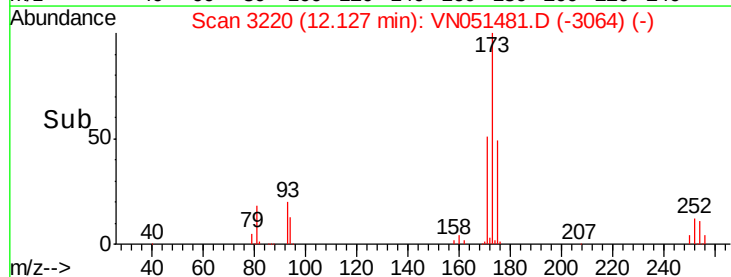
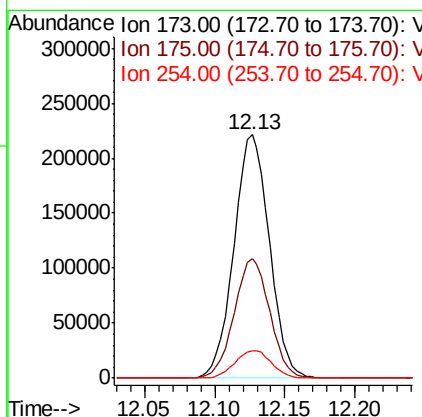
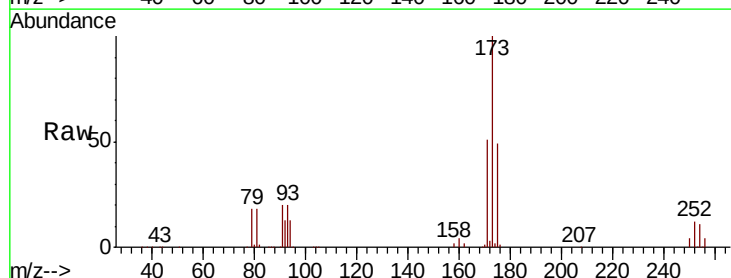
Instrument :
 MSVOA_N
 ClientSampleId :
 PT-VOA-WP

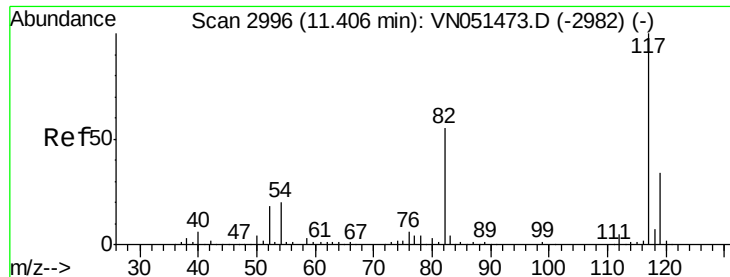
Tot Ion:107 Resp: 503102
 Ion Ratio Lower Upper
 107 100
 109 95.0 77.4 116.0



#56
 Bromoform
 Concen: 81.312 ug/l
 RT: 12.13 min Scan# 3220
 Delta R.T. 0.00 min
 Lab File: VN051481.D
 Acq: 25 Sep 2018 13:13

Tgt Ion:173 Resp: 389920
 Ion Ratio Lower Upper
 173 100
 175 49.1 35.8 53.8
 254 11.6 8.6 13.0

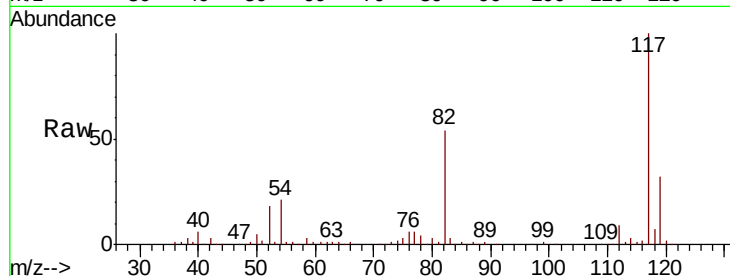




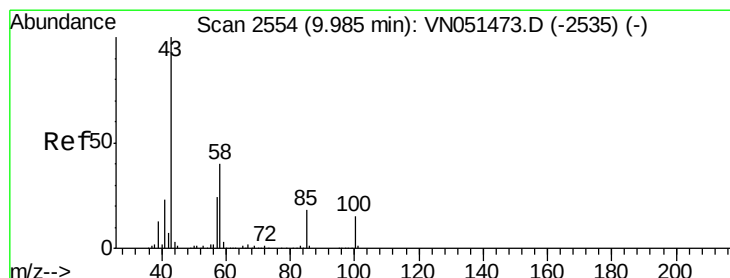
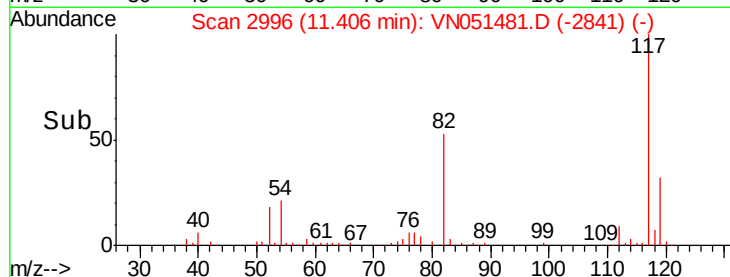
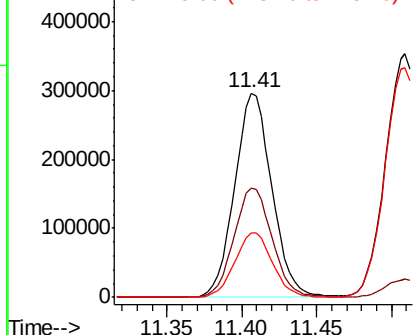
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051481.D
Acq: 25 Sep 2018 13:13

Instrument :
MSVOA_N
ClientSampled :
PT-VOA-WP

Tot Ion:117 Resp: 513177
Ion Ratio Lower Upper
117 100
82 55.0 44.1 66.1
119 32.1 25.8 38.8

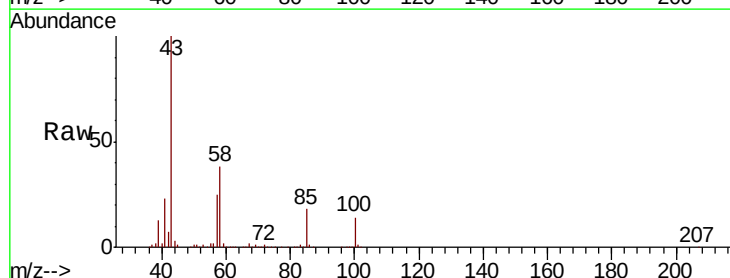


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

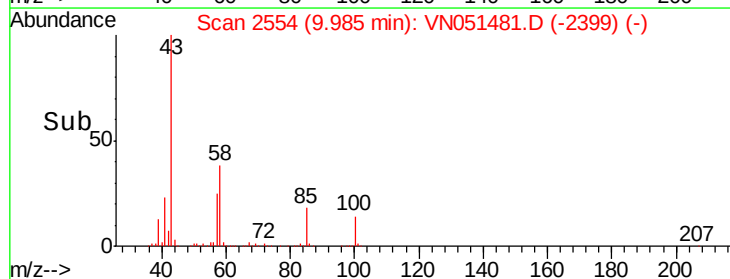
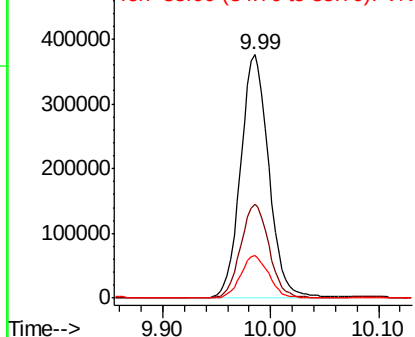


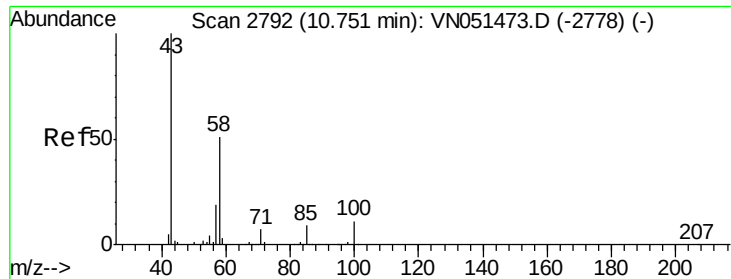
#58
4-Methyl-2-Pentanone
Concen: 128.881 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN051481.D
Acq: 25 Sep 2018 13:13

Tgt Ion: 43 Resp: 683701
Ion Ratio Lower Upper
43 100
58 39.0 29.3 43.9
85 17.6 12.6 18.8



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 58.00 (57.70 to 58.70): V
Ion 85.00 (84.70 to 85.70): V

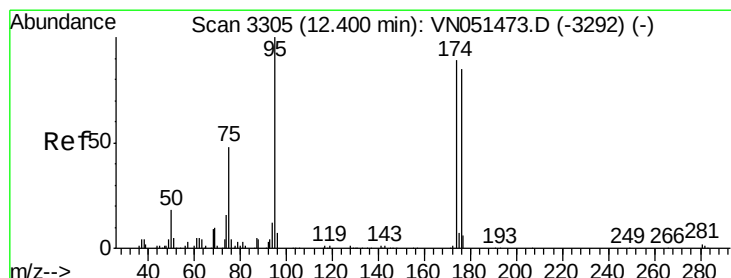
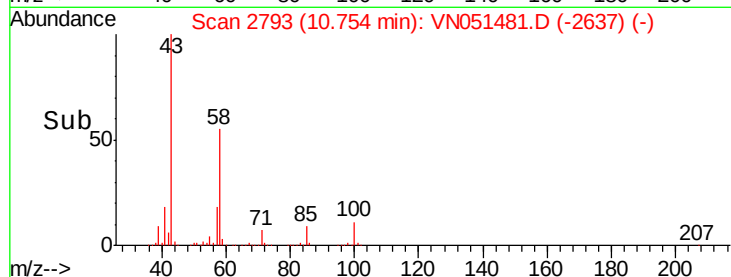
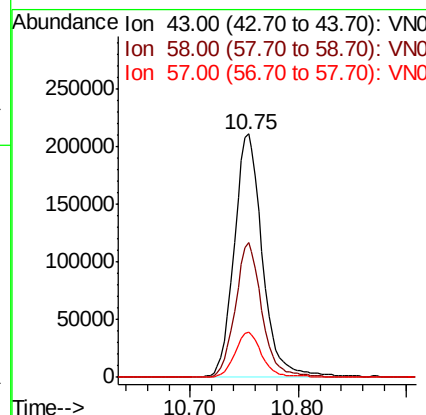
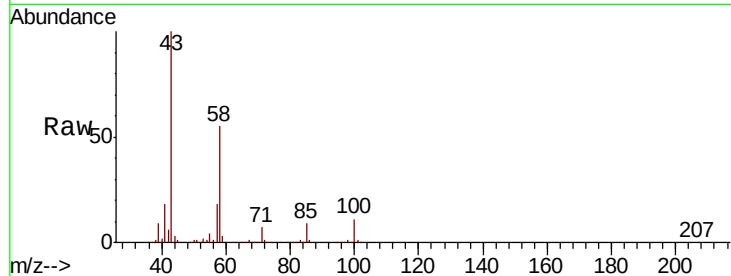




#59
2-Hexanone
Concen: 110.700 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN051481.D
Acq: 25 Sep 2018 13:13

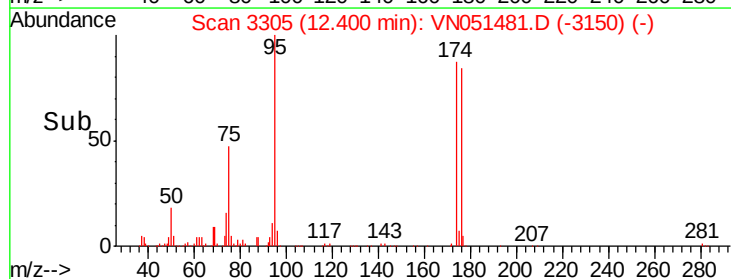
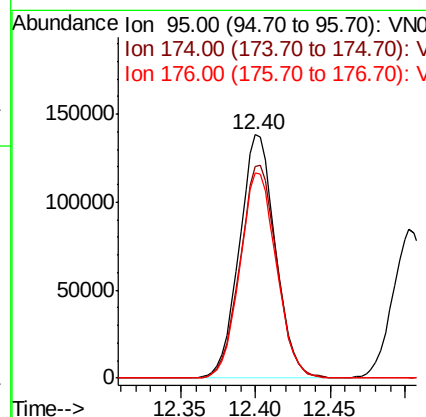
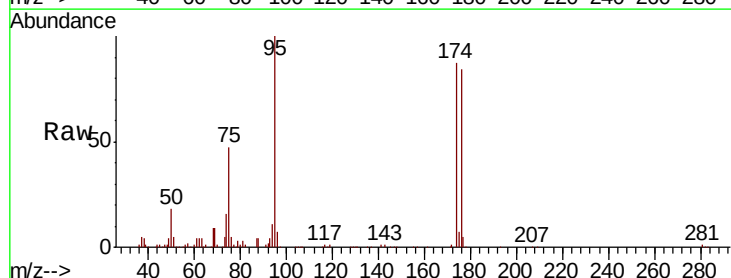
Instrument :
MSVOA_N
ClientSampled :
PT-VOA-WP

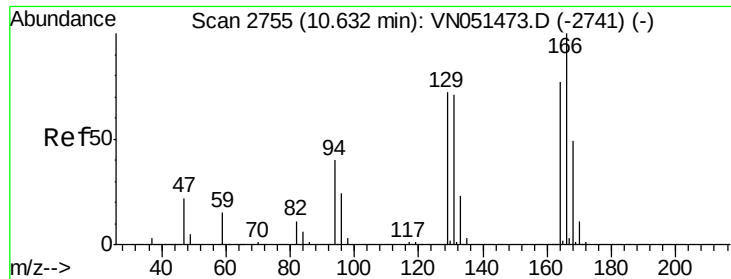
Tot Ion	43	Resp	382349
Ion Ratio	Lower	Upper	
43	100		
58	52.6	41.3	61.9
57	17.7	13.4	20.0



#60
4-Bromofluorobenzene
Concen: 29.919 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN051481.D
Acq: 25 Sep 2018 13:13

Tgt Ion	95	Resp	231818
Ion Ratio	Lower	Upper	
95	100		
174	89.3	73.5	110.3
176	85.6	70.2	105.2





#61

Tetrachloroethene

Concen: 50.855 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.00 min

Lab File: VN051481.D

Acq: 25 Sep 2018 13:13

Instrument :

MSVOA_N

ClientSampled :

PT-VOA-WP

Tot Ion:164 Resp: 357785

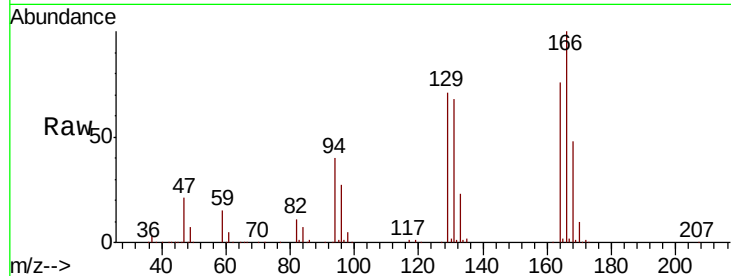
Ion Ratio Lower Upper

164 100

166 132.3 98.7 148.1

129 94.5 69.6 104.4

131 90.6 72.4 108.6



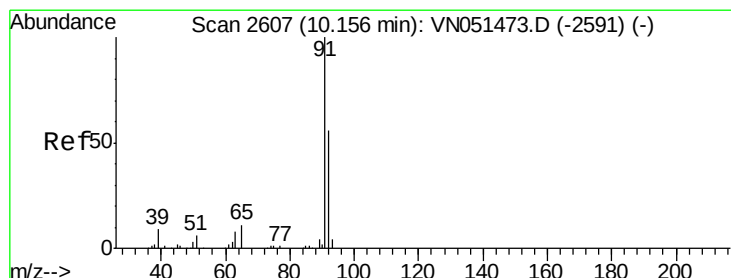
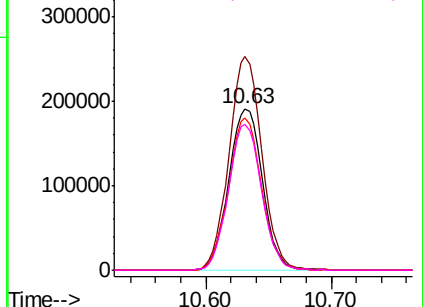
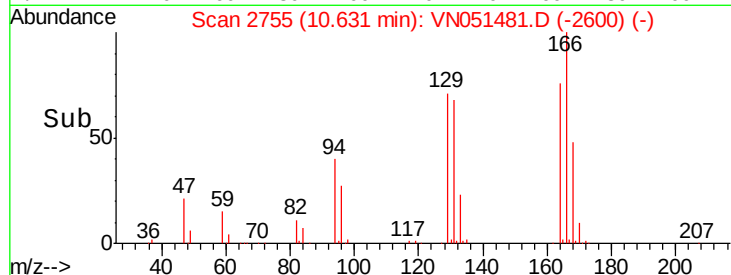
Abundance

Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 47.274 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN051481.D

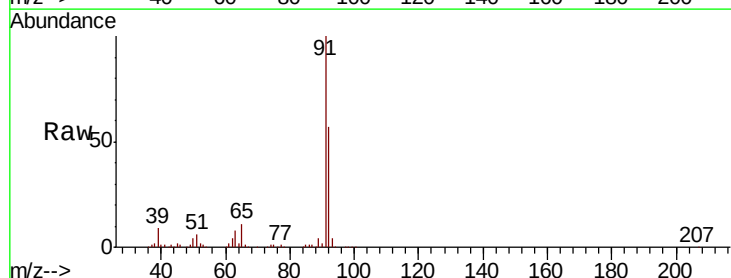
Acq: 25 Sep 2018 13:13

Tgt Ion: 91 Resp: 1464435

Ion Ratio Lower Upper

91 100

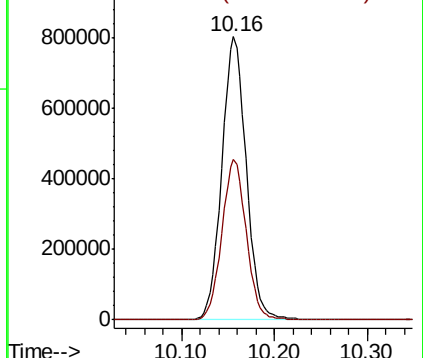
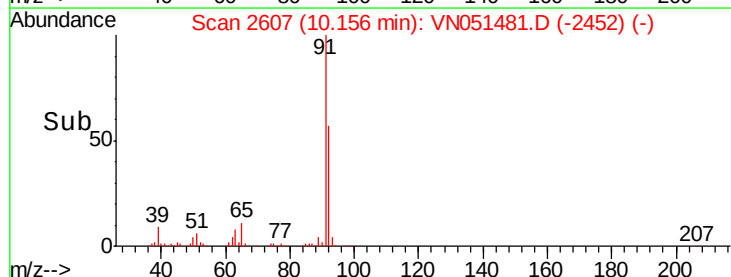
92 56.7 44.6 66.8

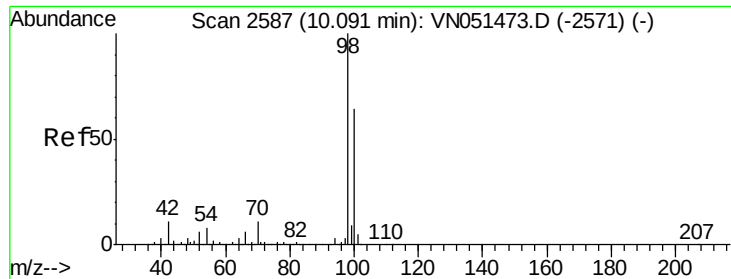


Abundance

Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V





#63

Toluene-d8

Concen: 30.450 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051481.D

Acq: 25 Sep 2018 13:13

Instrument :

MSVOA_N

ClientSampleId :

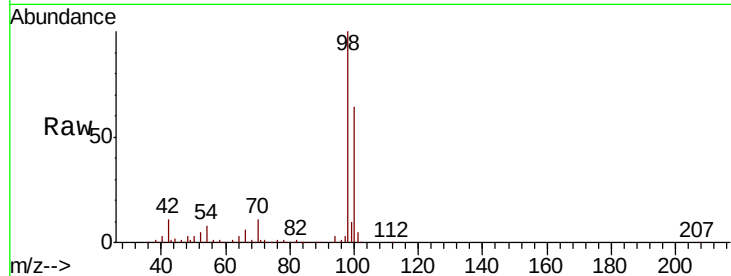
PT-VOA-WP

Tot Ion: 98 Resp: 748764

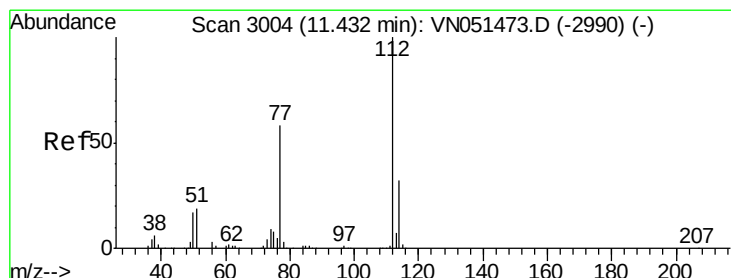
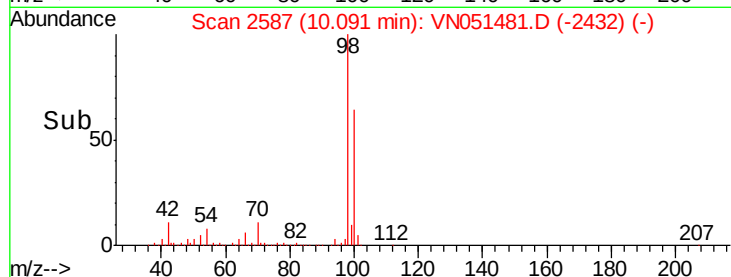
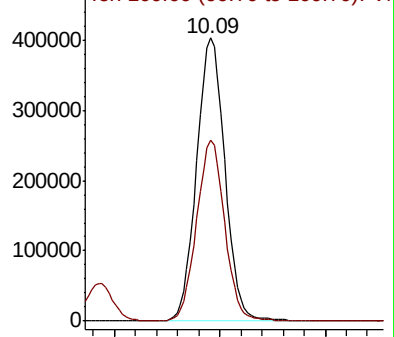
Ion Ratio Lower Upper

98 100

100 63.1 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VN051473.D (-2571) (-)



#64

Chlorobenzene

Concen: 38.160 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN051481.D

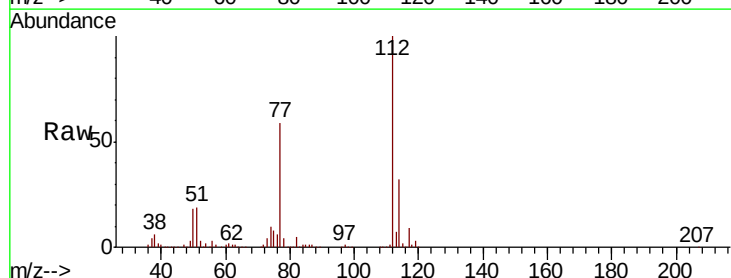
Acq: 25 Sep 2018 13:13

Tgt Ion: 112 Resp: 723408

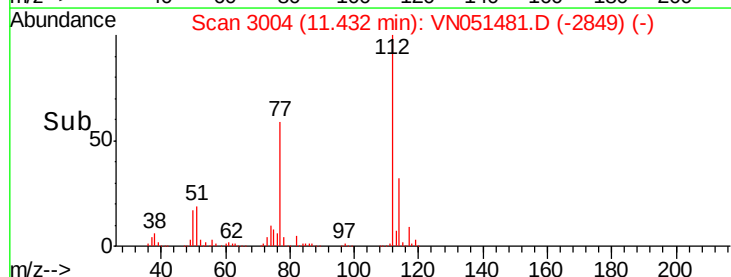
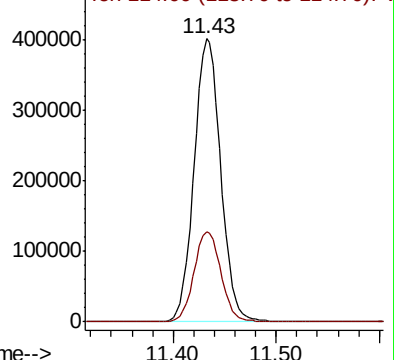
Ion Ratio Lower Upper

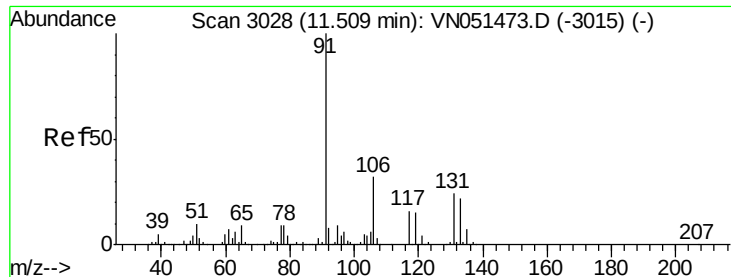
112 100

114 31.9 27.5 41.3



Abundance Ion 112.00 (111.70 to 112.70): VN051473.D (-2990) (-)





#65

1,1,1,2-Tetrachloroethane

Concen: 121.685 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN051481.D

Acq: 25 Sep 2018 13:13

Instrument :

MSVOA_N

ClientSampled :

PT-VOA-WP

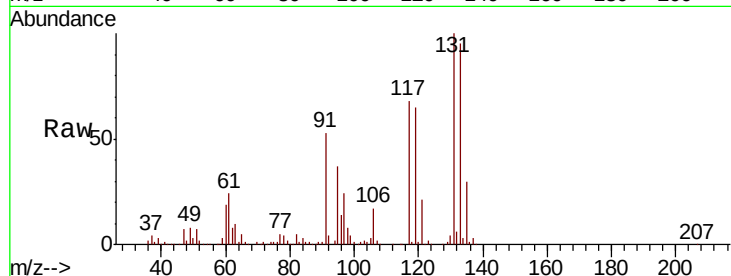
Tot Ion:131 Resp: 893180

Ion Ratio Lower Upper

131 100

133 95.6 0.0 190.4

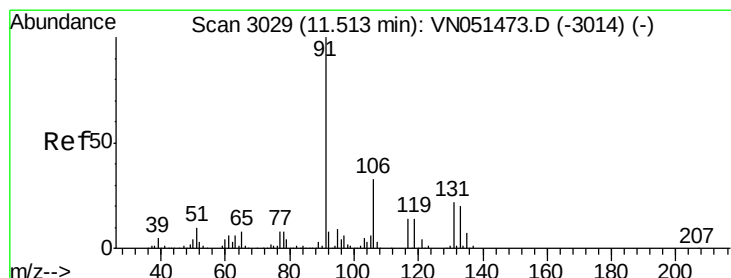
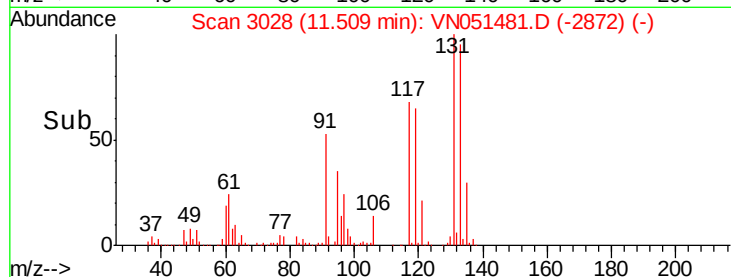
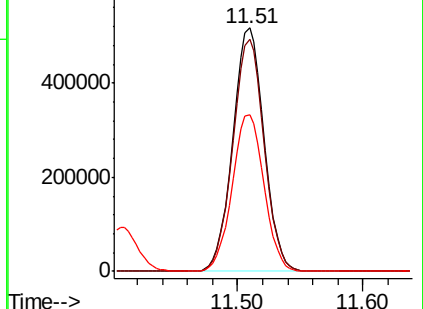
119 65.7 0.0 128.0



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#66

Ethyl Benzene

Concen: 14.825 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN051481.D

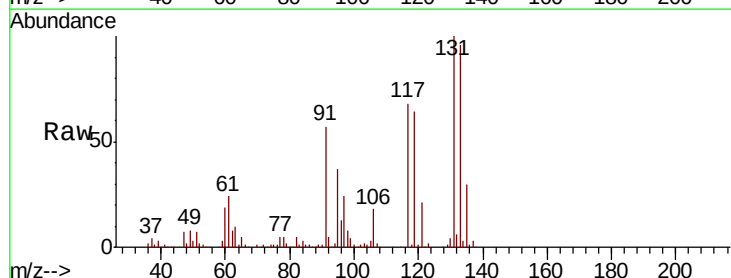
Acq: 25 Sep 2018 13:13

Tgt Ion: 91 Resp: 471917

Ion Ratio Lower Upper

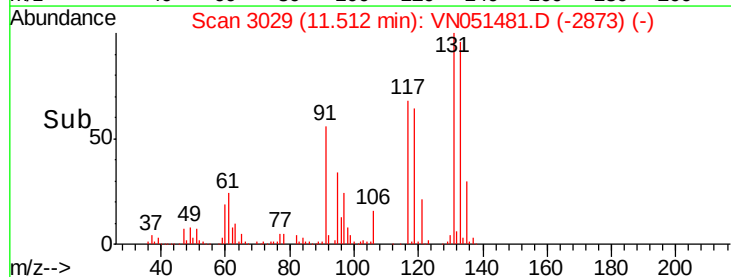
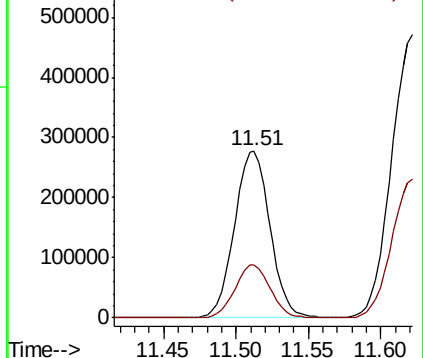
91 100

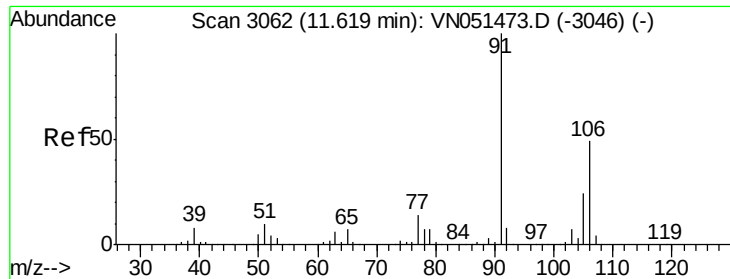
106 31.7 25.9 38.9



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V

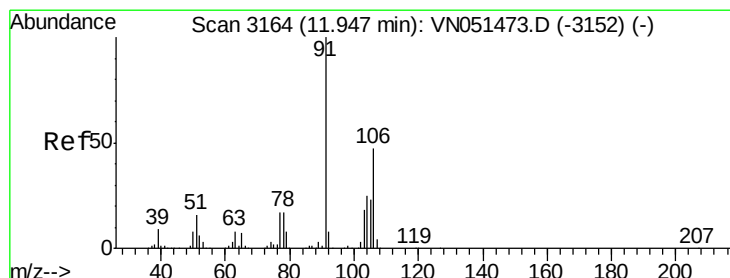
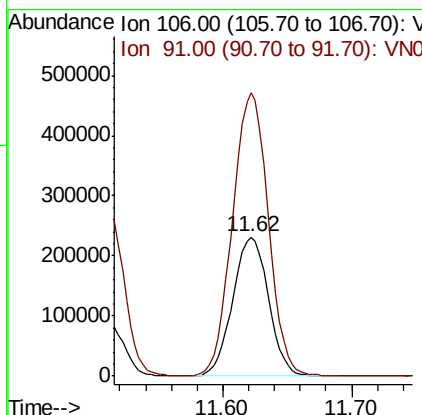
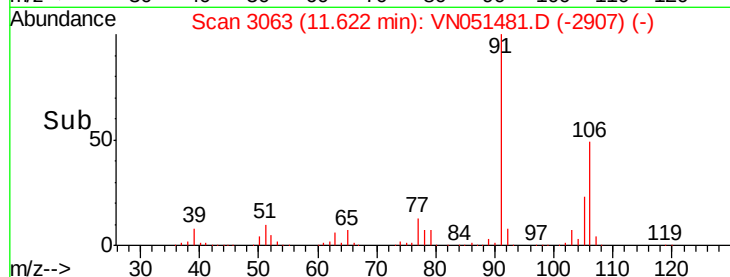
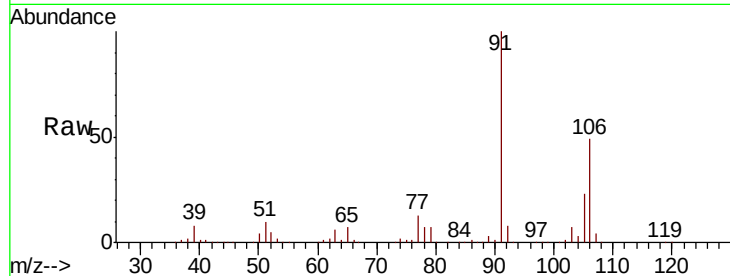




#67
m/p-Xylenes
Concen: 36.004 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN051481.D
Acq: 25 Sep 2018 13:13

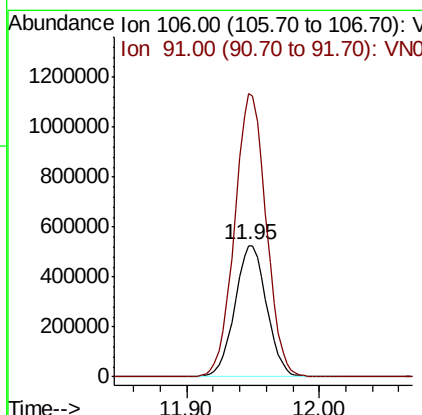
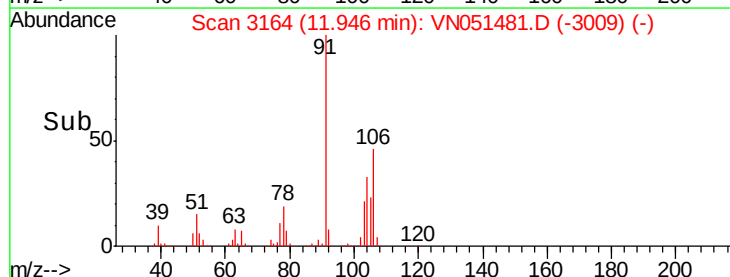
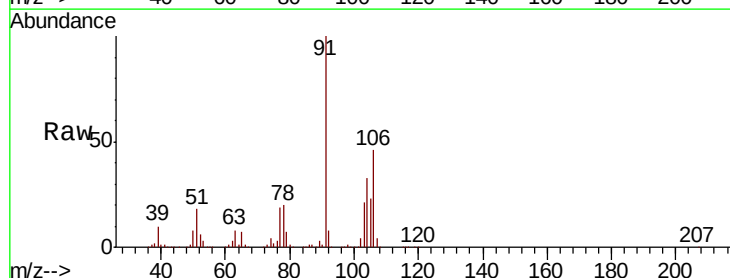
Instrument :
MSVOA_N
ClientSampled :
PT-VOA-WP

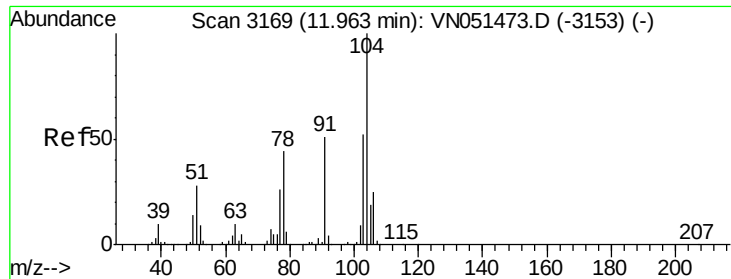
Tot Ion:106 Resp: 445596
Ion Ratio Lower Upper
106 100
91 203.2 158.8 238.2



#68
o-Xylene
Concen: 74.413 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN051481.D
Acq: 25 Sep 2018 13:13

Tgt Ion:106 Resp: 875222
Ion Ratio Lower Upper
106 100
91 214.1 111.1 333.3





#69

Stvrene

Concen: 111.042 ug/l

RT: 11.96 min Scan# 3169

Delta R.T. -0.00 min

Lab File: VN051481.D

Acq: 25 Sep 2018 13:13

Instrument :

MSVOA_N

ClientSampleId :

PT-VOA-WP

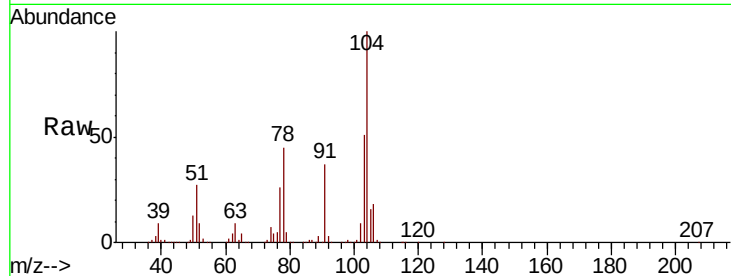
Tot Ion:104 Resp: 2068388

Ion Ratio Lower Upper

104 100

78 47.6 40.6 60.8

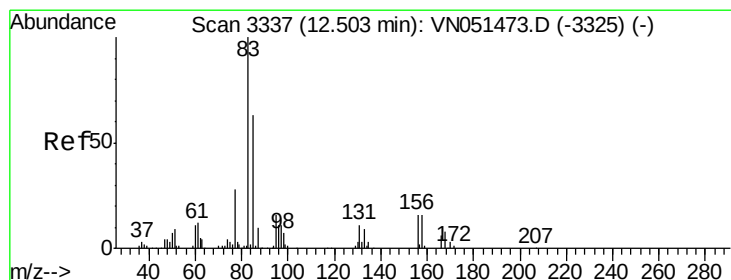
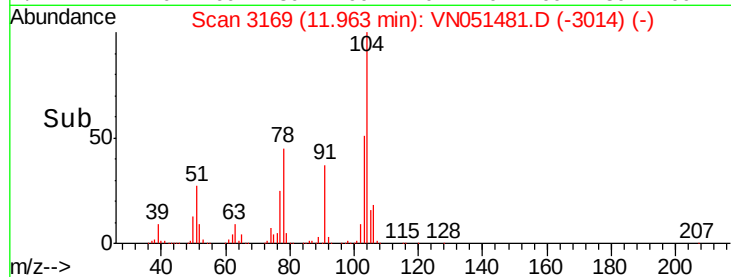
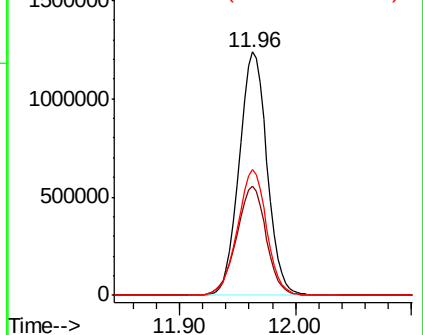
103 54.1 44.0 66.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#71

1,1,2,2-Tetrachloroethane

Concen: 122.953 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN051481.D

Acq: 25 Sep 2018 13:13

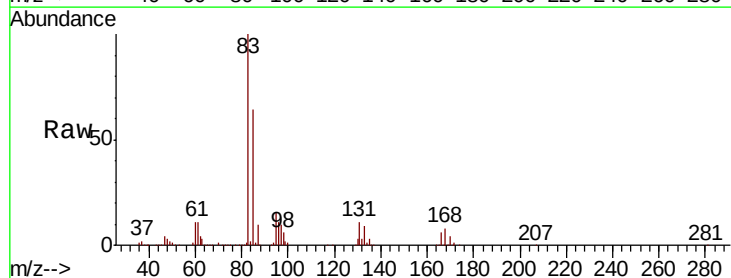
Tgt Ion: 83 Resp: 898920

Ion Ratio Lower Upper

83 100

131 10.2 5.5 16.4

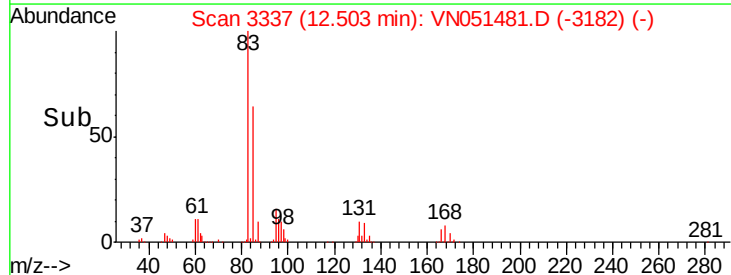
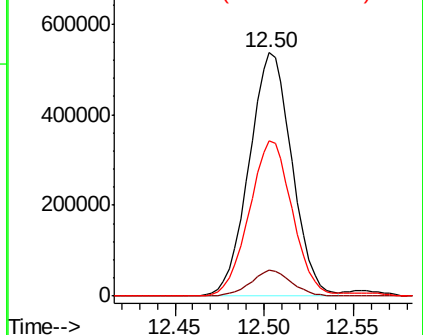
85 64.2 30.6 91.8

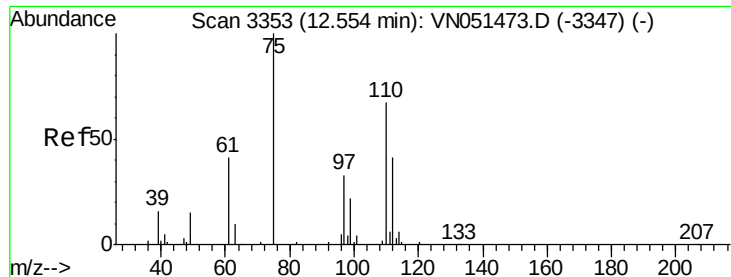


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): V





#72

1,2,3-Trichloropropane

Concen: 118.110 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN051481.D

Acq: 25 Sep 2018 13:13

Instrument :

MSVOA_N

ClientSampled :

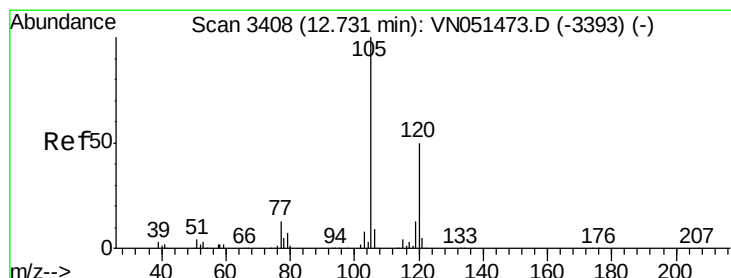
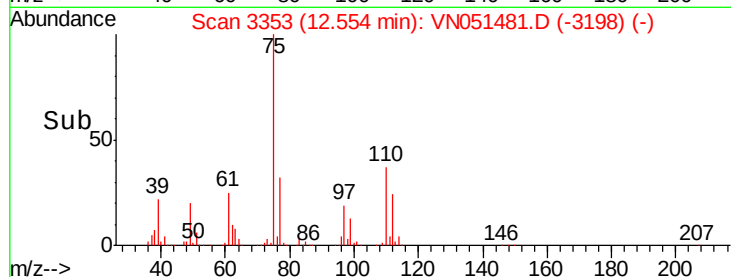
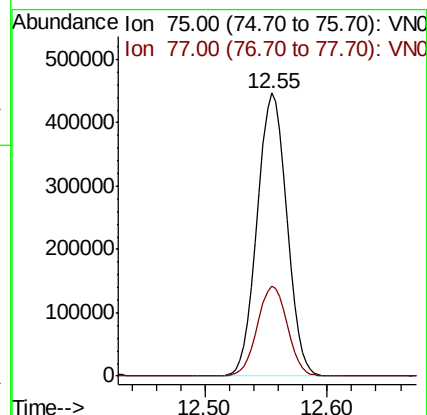
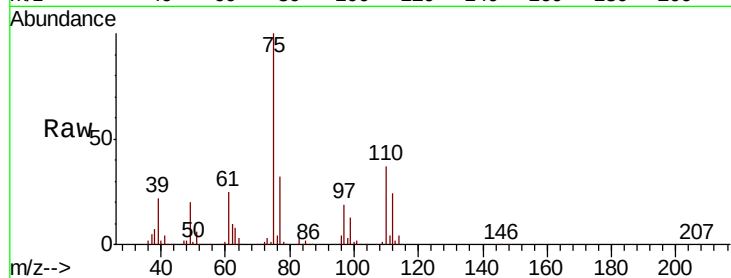
PT-VOA-WP

Tot Ion: 75 Resp: 747842

Ion Ratio Lower Upper

75 100

77 32.2 0.0 400.0



#76

1,3,5-Trimethylbenzene

Concen: 48.958 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051481.D

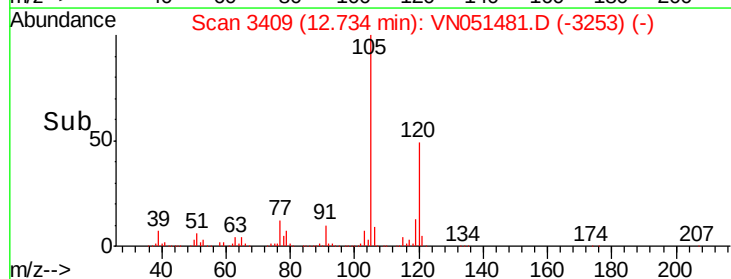
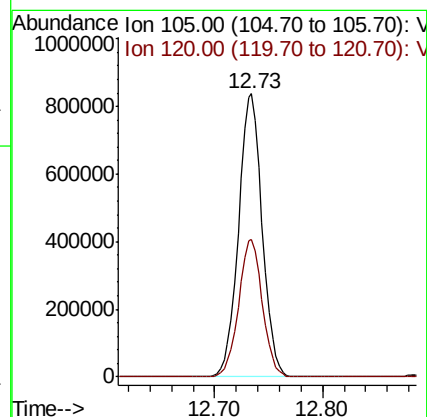
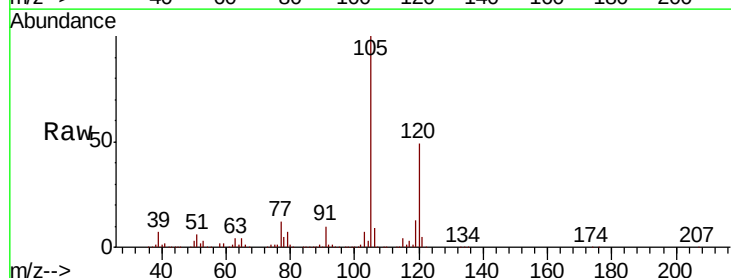
Acq: 25 Sep 2018 13:13

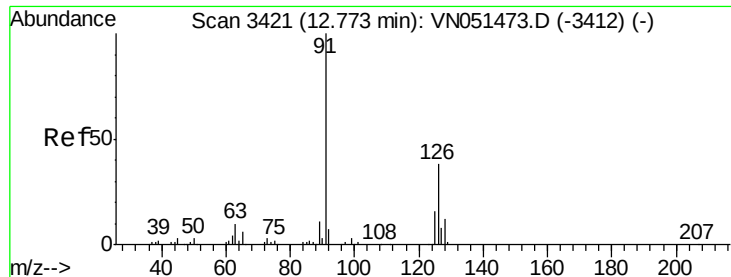
Tgt Ion: 105 Resp: 1276736

Ion Ratio Lower Upper

105 100

120 48.8 0.0 98.2

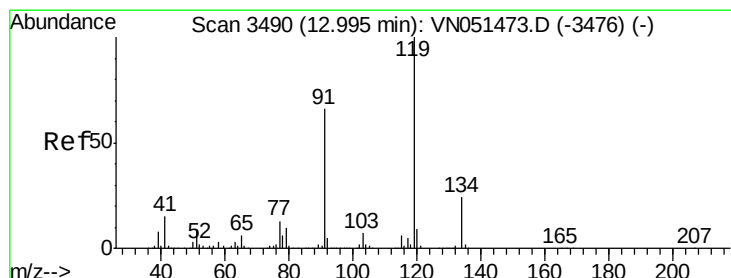
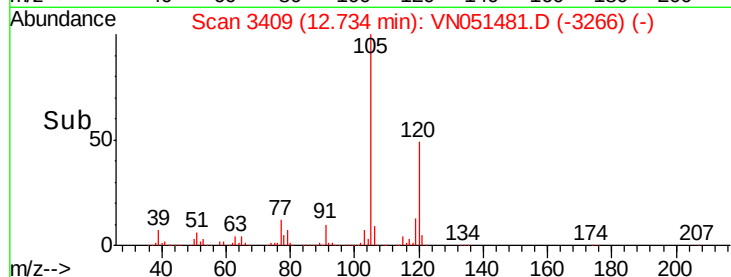
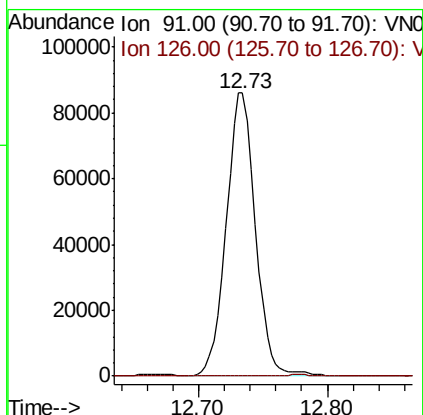
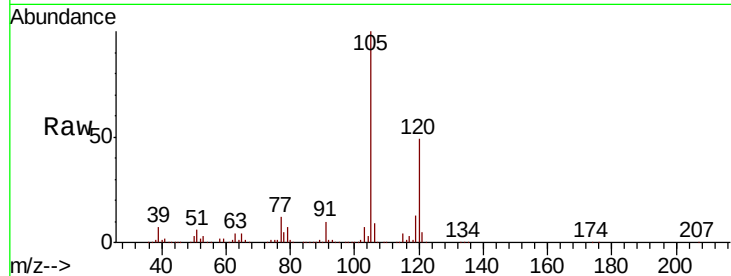




#78
4-Chlorotoluene
Concen: 6.261 ug/l
RT: 12.73 min Scan# 3409
Delta R.T. -0.04 min
Lab File: VN051481.D
Acq: 25 Sep 2018 13:13

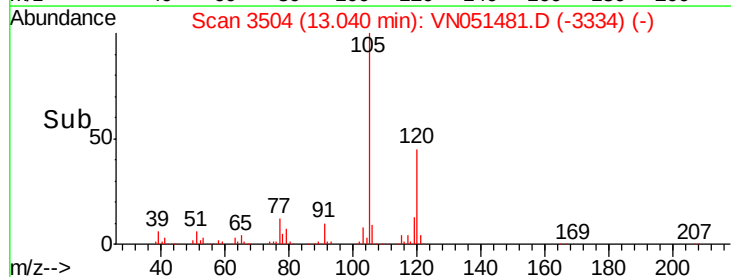
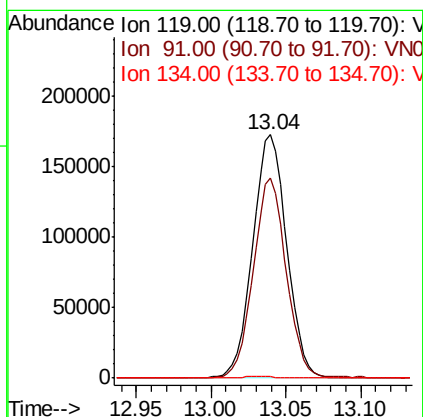
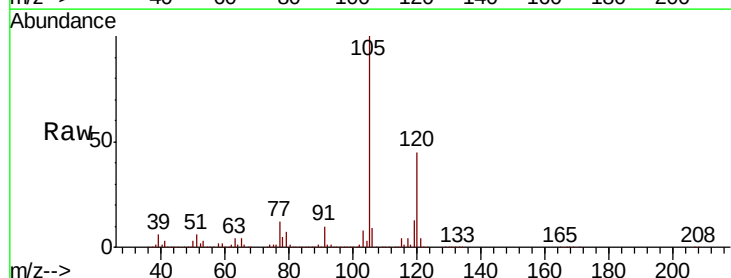
Instrument :
MSVOA_N
ClientSampled :
PT-VOA-WP

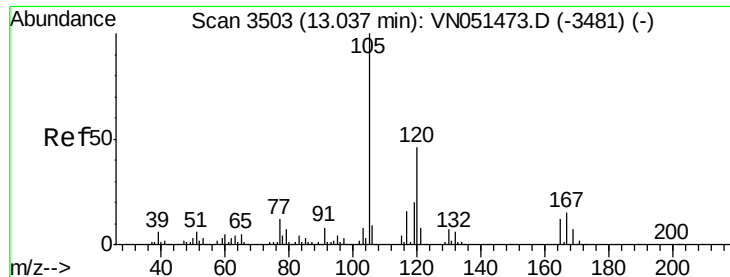
Tot Ion: 91 Resp: 134258
Ion Ratio Lower Upper
91 100
126 0.4 0.0 65.2



#79
tert-butylbenzene
Concen: 12.086 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.05 min
Lab File: VN051481.D
Acq: 25 Sep 2018 13:13

Tgt Ion: 119 Resp: 272990
Ion Ratio Lower Upper
119 100
91 79.6 0.0 131.6
134 0.8 0.0 46.2

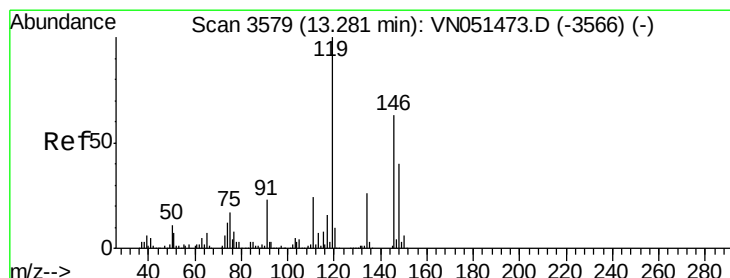
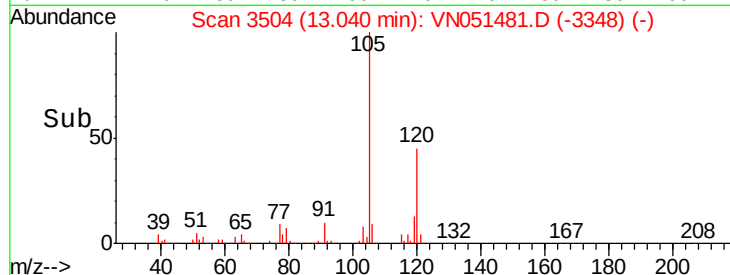
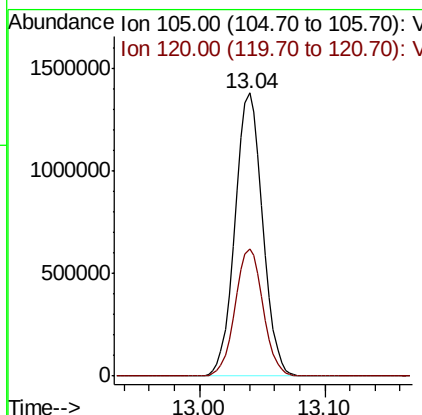
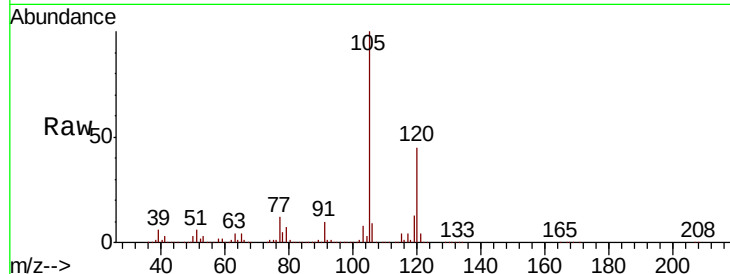




#80
 1,2,4-Trimethylbenzene
 Concen: 80.163 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN051481.D
 Acq: 25 Sep 2018 13:13

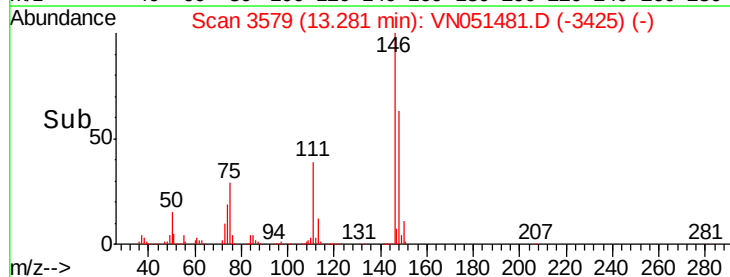
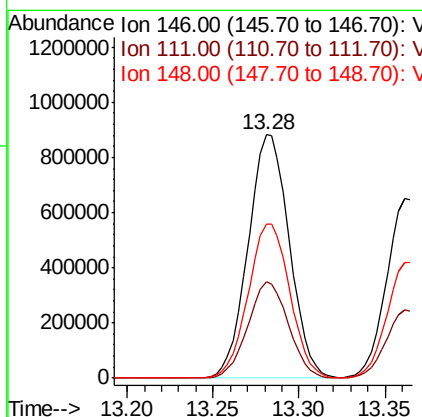
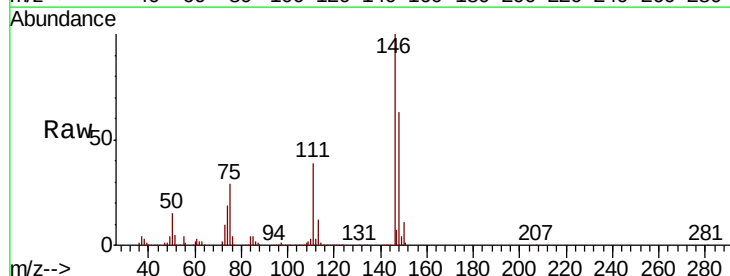
Instrument :
 MSVOA_N
 ClientSampleId :
 PT-VOA-WP

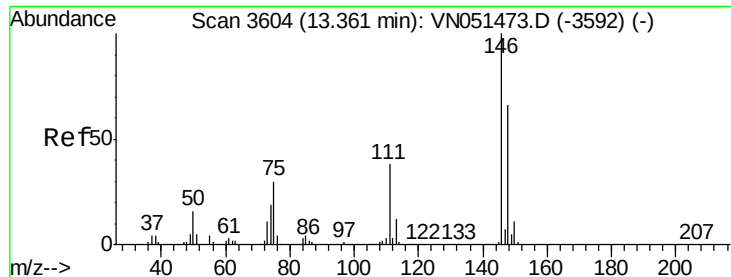
Tot Ion:105 Resp: 2108517
 Ion Ratio Lower Upper
 105 100
 120 45.4 0.0 89.6



#83
 1,3-Dichlorobenzene
 Concen: 105.923 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN051481.D
 Acq: 25 Sep 2018 13:13

Tgt Ion:146 Resp: 1462338
 Ion Ratio Lower Upper
 146 100
 111 39.0 18.1 54.3
 148 64.2 31.3 93.8

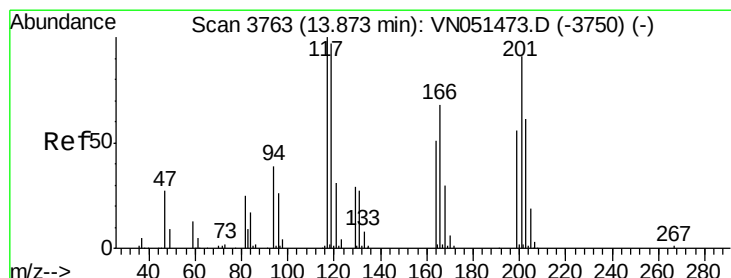
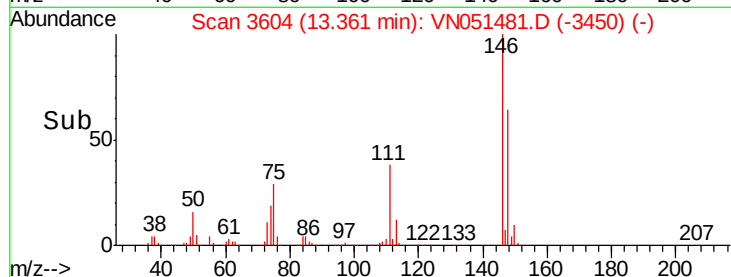
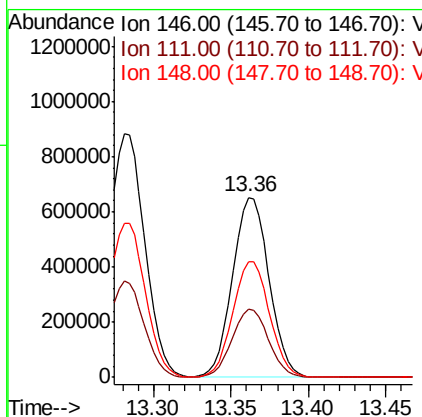
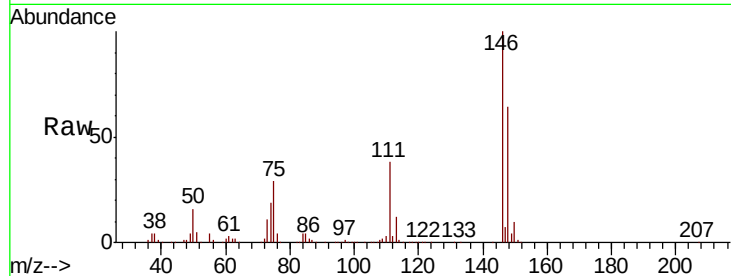




#84
 1,4-Dichlorobenzene
 Concen: 82.482 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN051481.D
 Acq: 25 Sep 2018 13:13

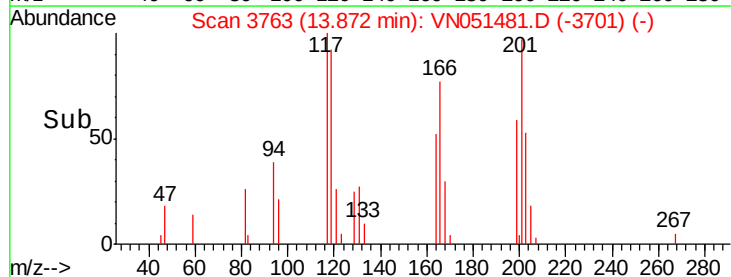
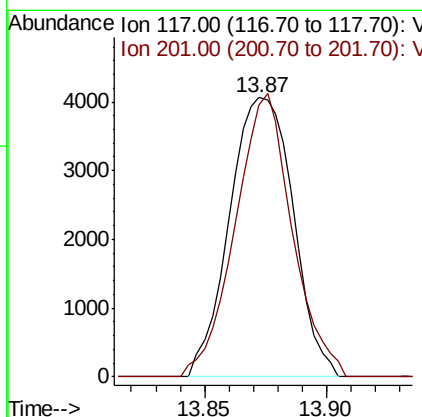
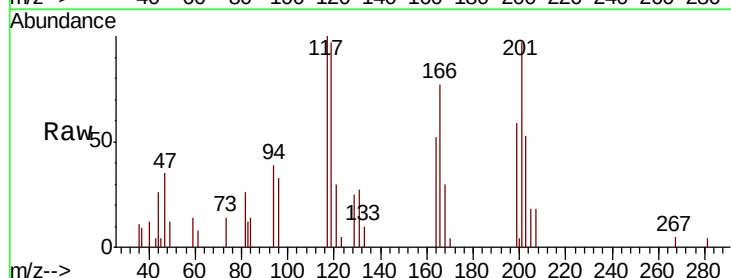
Instrument :
 MSVOA_N
 ClientSampleId :
 PT-VOA-WP

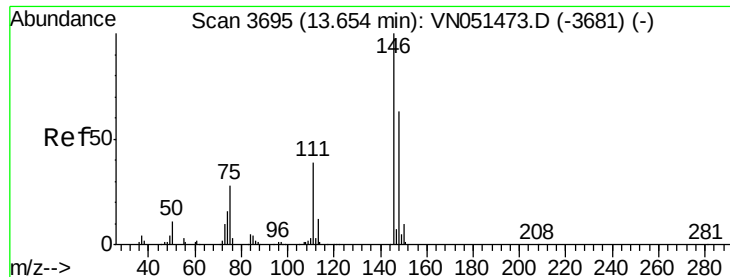
Tot Ion:146 Resp: 1071168
 Ion Ratio Lower Upper
 146 100
 111 37.6 17.4 52.2
 148 64.6 32.8 98.3



#86
 Hexachloroethane
 Concen: 1.377 ug/l
 RT: 13.87 min Scan# 3763
 Delta R.T. -0.00 min
 Lab File: VN051481.D
 Acq: 25 Sep 2018 13:13

Tgt Ion:117 Resp: 7353
 Ion Ratio Lower Upper
 117 100
 201 90.6 47.8 143.3

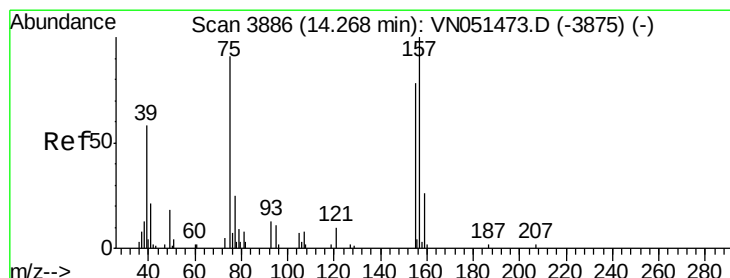
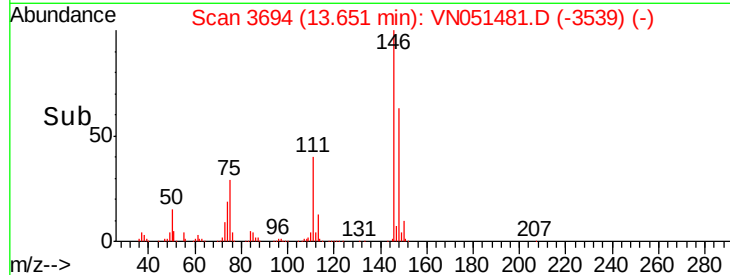
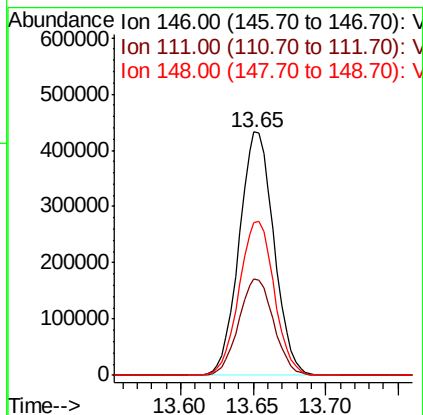
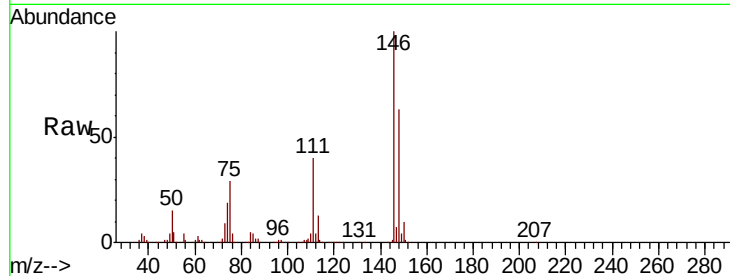




#87
 1,2-Dichlorobenzene
 Concen: 54.635 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN051481.D
 Acq: 25 Sep 2018 13:13

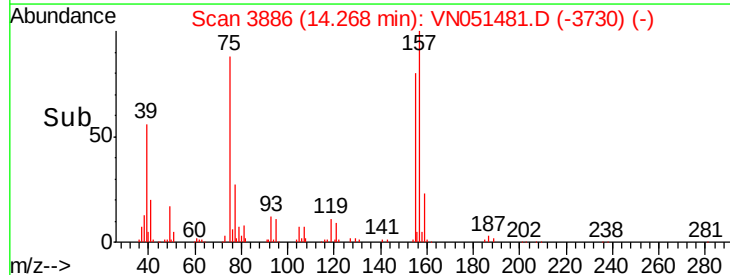
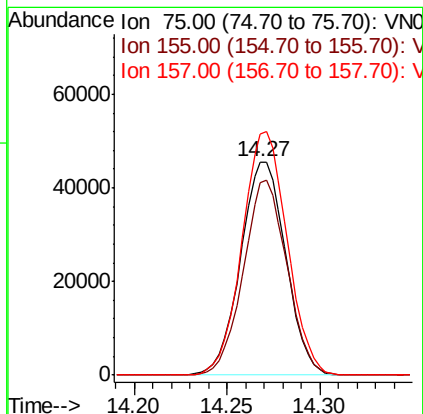
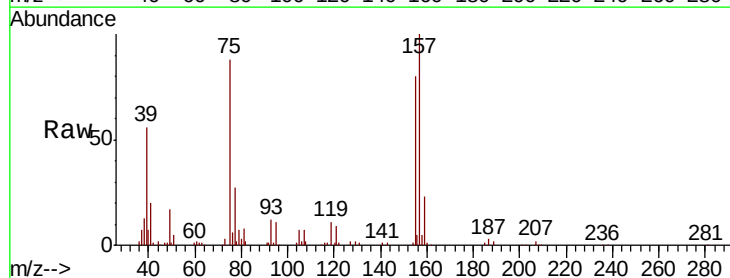
Instrument :
 MSVOA_N
 ClientSampleId :
 PT-VOA-WP

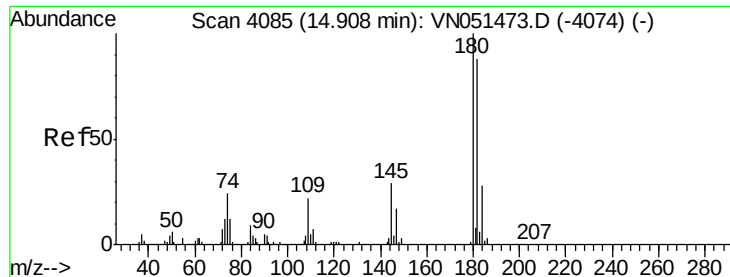
Tot Ion	Ratio	Lower	Upper
146	100		
111	39.8	20.8	62.2
148	63.8	33.2	99.6



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 71.764 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN051481.D
 Acq: 25 Sep 2018 13:13

Tgt Ion	Ratio	Lower	Upper
75	100		
155	88.1	57.0	85.6#
157	113.7	87.4	131.0

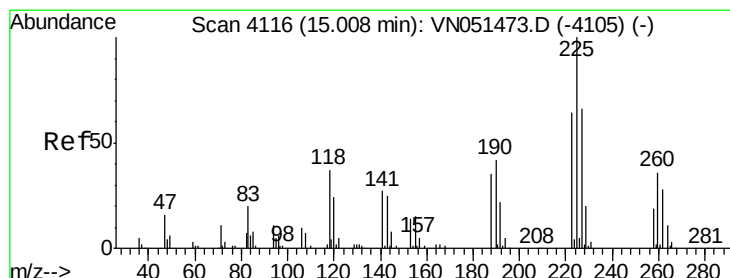
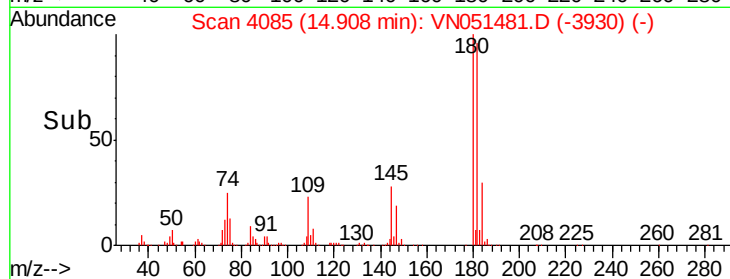
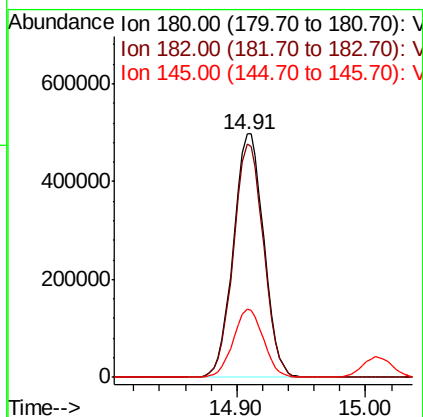
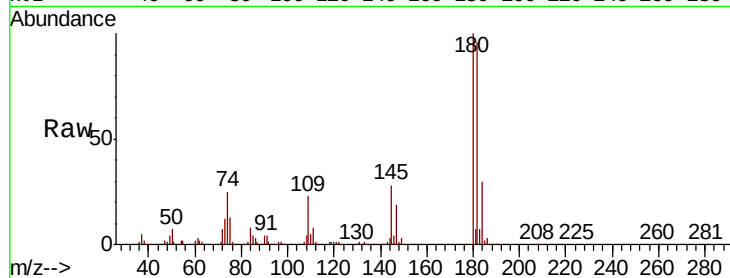




#89
 1,2,4-Trichlorobenzene
 Concen: 127.281 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN051481.D
 Acq: 25 Sep 2018 13:13

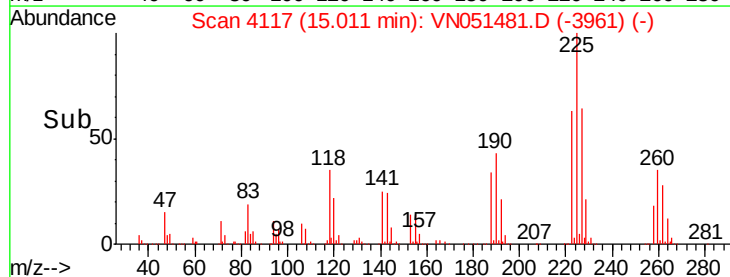
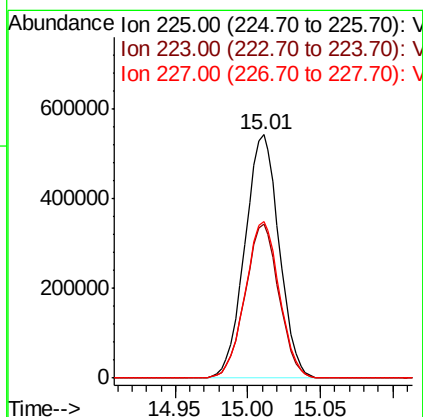
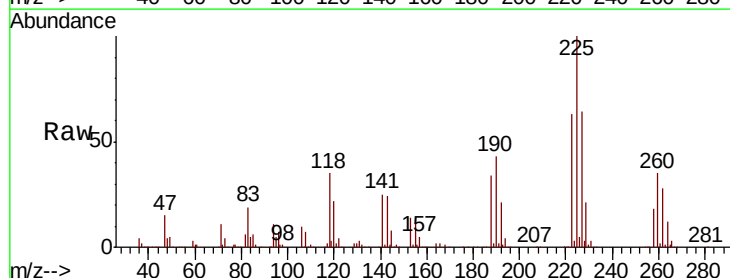
Instrument :
 MSVOA_N
 ClientSampleId :
 PT-VOA-WP

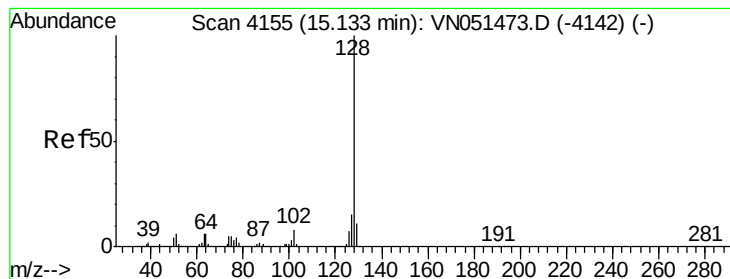
Tot Ion:180 Resp: 813347
 Ion Ratio Lower Upper
 180 100
 182 95.4 77.7 116.5
 145 27.8 23.4 35.2



#90
 Hexachlorobutadiene
 Concen: 177.388 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN051481.D
 Acq: 25 Sep 2018 13:13

Tgt Ion:225 Resp: 891222
 Ion Ratio Lower Upper
 225 100
 223 62.5 0.0 117.0
 227 64.4 0.0 127.0





#91

Naphthalene

Concen: 110.655 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN051481.D

Acq: 25 Sep 2018 13:13

Instrument :

MSVOA_N

ClientSampled :

PT-VOA-WP

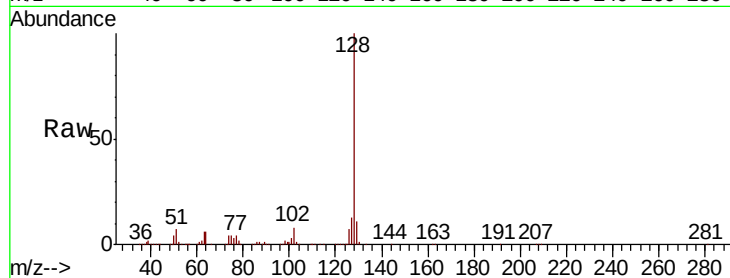
Tot Ion:128 Resp: 1771254

Ion Ratio Lower Upper

128 100

127 13.0 10.1 15.1

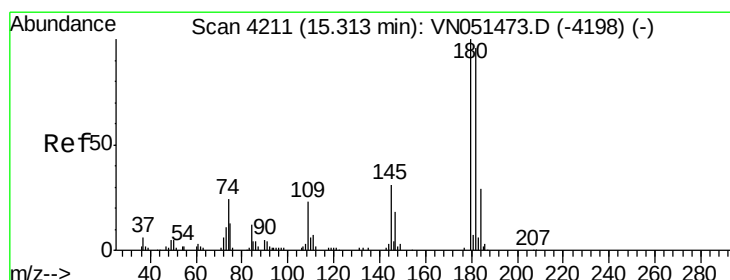
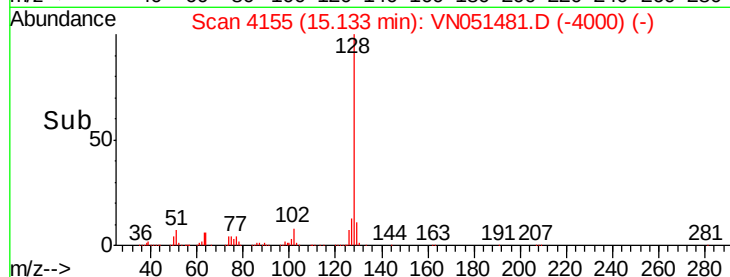
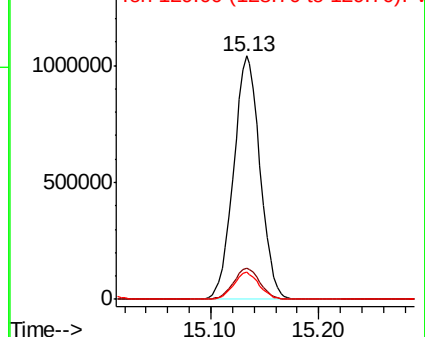
129 10.8 8.4 12.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#92

1,2,3-Trichlorobenzene

Concen: 0.796 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN051481.D

Acq: 25 Sep 2018 13:13

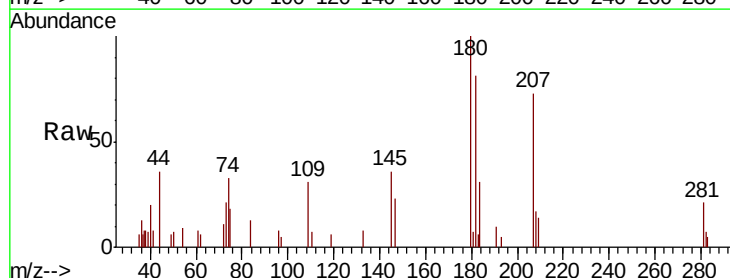
Tgt Ion:180 Resp: 5129

Ion Ratio Lower Upper

180 100

182 84.7 0.0 198.0

145 34.2 0.0 36.8



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

