

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050919\
 Data File : VN055520.D
 Acq On : 10 May 2019 1:39
 Operator : JC/SP
 Sample : K2758-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CKMW-03

Quant Time: May 10 04:21:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N050819W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 04:17:44 2019
 Response via : Initial Calibration

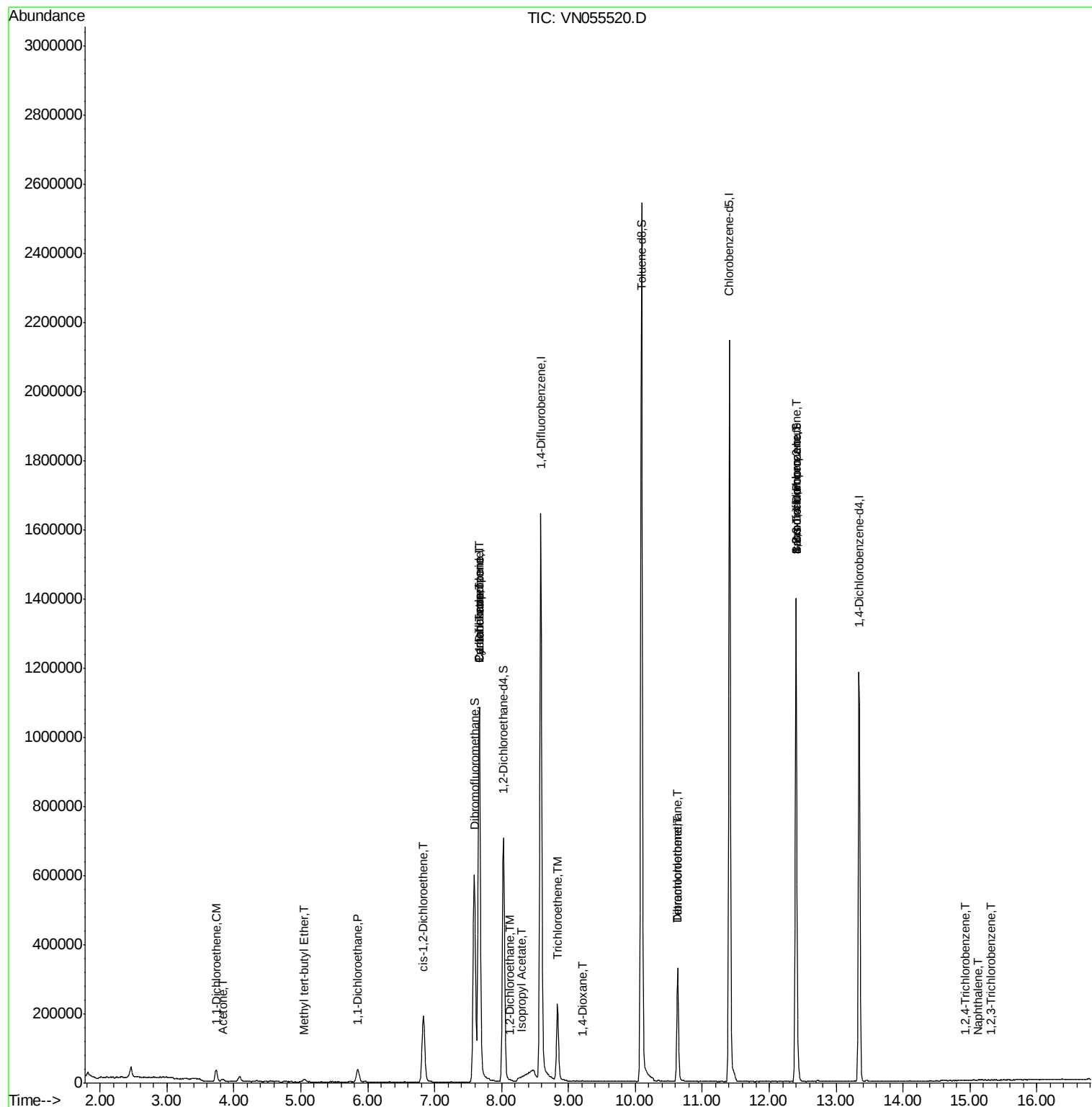
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	915477	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1512630	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1249352	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	330097	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	608204	44.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.24%	
35) Dibromofluoromethane	7.59	113	474627	48.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.28%	
50) Toluene-d8	10.09	98	1822985	47.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.88%	
62) 4-Bromofluorobenzene	12.40	95	512800	40.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.00%	
Target Compounds						
					Qvalue	
12) 1,1-Dichloroethene	3.73	96	16894	1.688	ug/l	89
16) Acetone	3.83	43	11219	1.758	ug/l #	87
18) Methyl Acetate	4.33	43	2661	Below Cal		92
19) Methyl tert-butyl Ether	5.05	73	9968	0.300	ug/l	97
24) 1,1-Dichloroethane	5.85	63	56245	2.502	ug/l	97
27) cis-1,2-Dichloroethene	6.83	96	123591	9.858	ug/l	92
31) Cyclohexane	7.66	56	19611	0.882	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	72715	4.880	ug/l #	51
38) Carbon Tetrachloride	7.66	117	87885	7.004	ug/l #	16
42) 1,2-Dichloroethane	8.13	62	3339	0.205	ug/l	92
43) Isopropyl Acetate	8.28	43	14090	0.571	ug/l #	63
44) Trichloroethene	8.84	130	83119	7.553	ug/l	96
49) 1,4-Dioxane	9.22	88	278	1.199	ug/l #	15
60) Dibromochloromethane	10.63	129	69473	7.133	ug/l #	11
64) Tetrachloroethene	10.63	164	82953	8.103	ug/l	98
71) Bromoform	12.40	173	3735	0.625	ug/l #	1
73) Isopropylbenzene	12.24	105	219	Below Cal	#	49
75) 1,1,2,2-Tetrachloroethane	12.50	83	34	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	253988	28.264	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	253988	104.289	ug/l #	7
93) 1,2,4-Trichlorobenzene	14.91	180	673	3.334	ug/l #	47
94) Hexachlorobutadiene	15.00	225	155	Below Cal	#	19
95) Naphthalene	15.13	128	1309	3.026	ug/l #	76
96) 1,2,3-Trichlorobenzene	15.31	180	335	2.483	ug/l #	58

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

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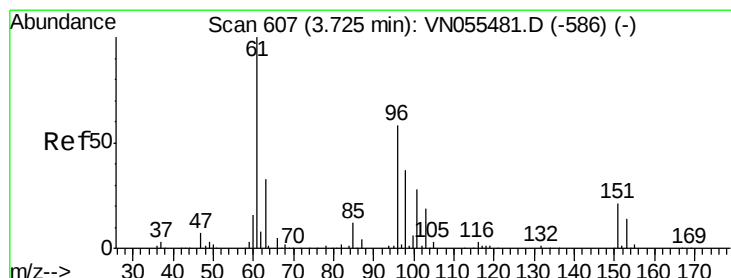
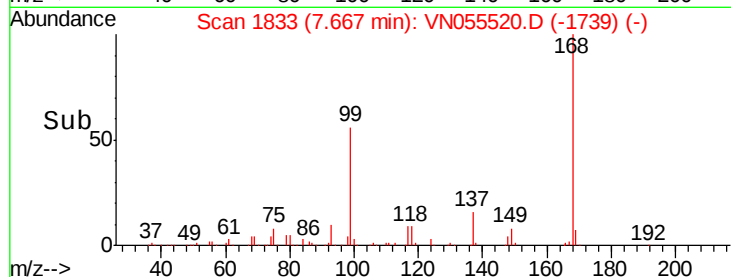
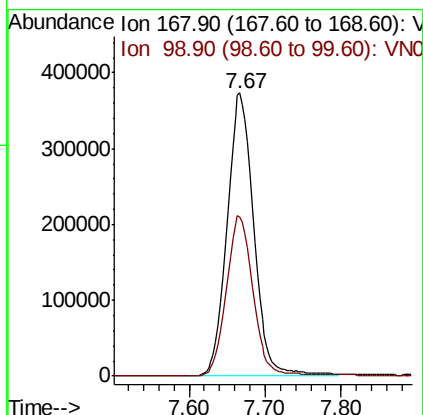
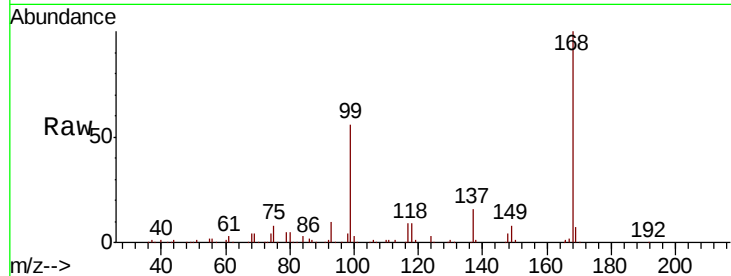




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.00 min
Lab File: VN055520.D
Acq: 10 May 2019 1:39

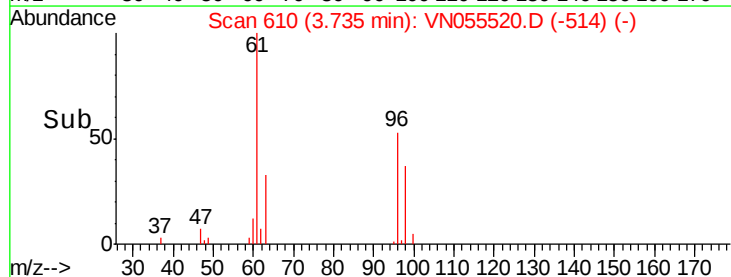
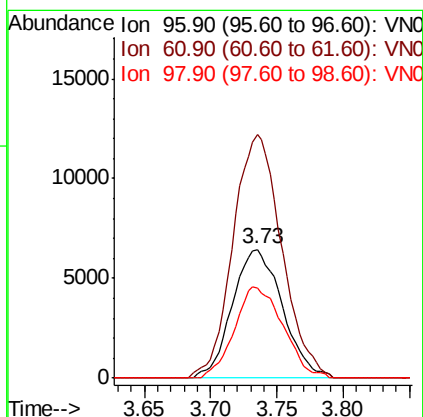
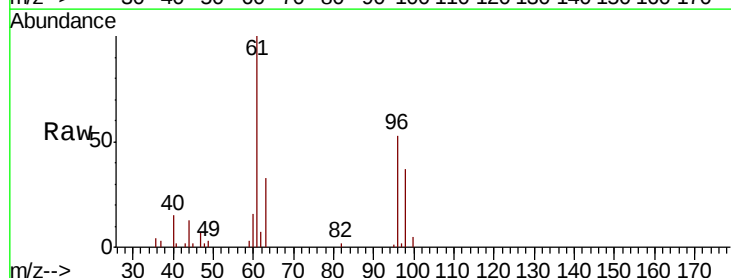
Instrument :
MSVOA_N
ClientSampleId :
CKMW-03

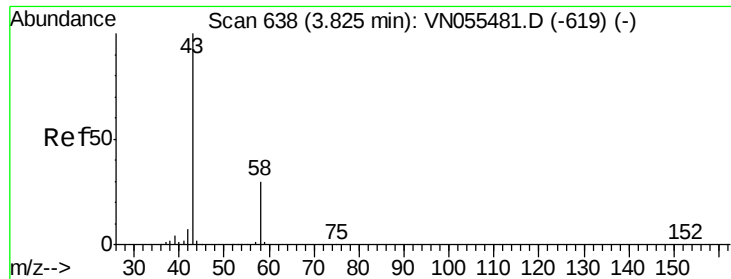
Tot Ion:168 Resp: 915477
Ion Ratio Lower Upper
168 100
99 56.5 47.0 70.4



#12
1,1-Dichloroethene
Concen: 1.688 ug/l
RT: 3.73 min Scan# 610
Delta R.T. 0.01 min
Lab File: VN055520.D
Acq: 10 May 2019 1:39

Tgt Ion: 96 Resp: 16894
Ion Ratio Lower Upper
96 100
61 189.2 138.7 208.1
98 69.6 50.6 76.0





#16

Acetone

Concen: 1.758 ug/l

RT: 3.83 min Scan# 640

Delta R.T. 0.01 min

Lab File: VN055520.D

Acq: 10 May 2019 1:39

Instrument :

MSVOA_N

ClientSampleId :

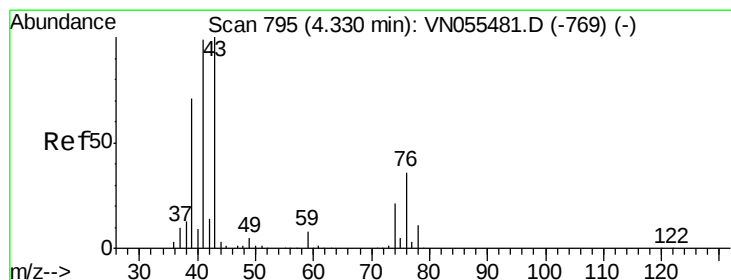
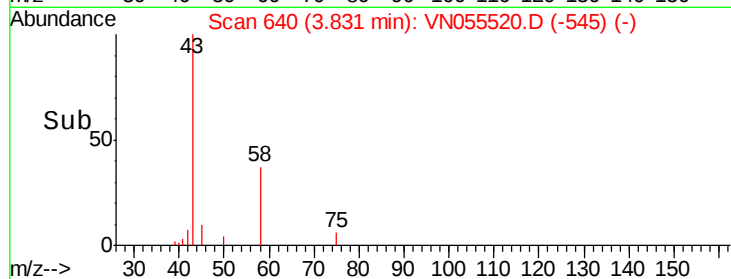
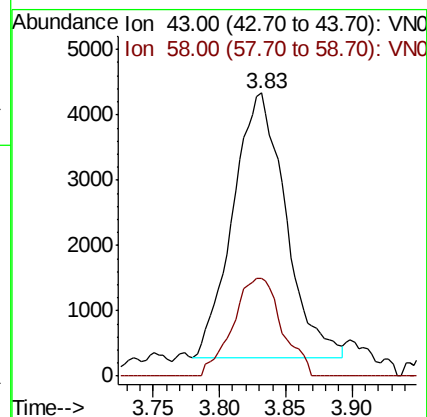
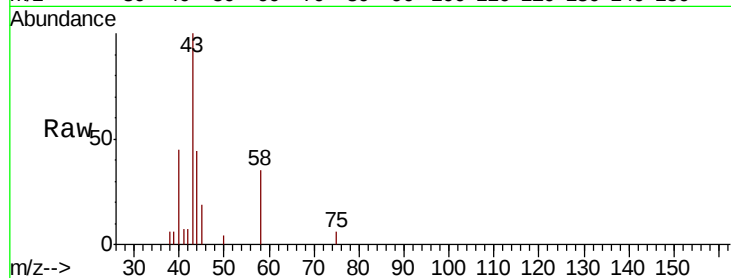
CKMW-03

Tot Ion: 43 Resp: 11219

Ion Ratio Lower Upper

43 100

58 37.0 24.2 36.2#



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN055520.D

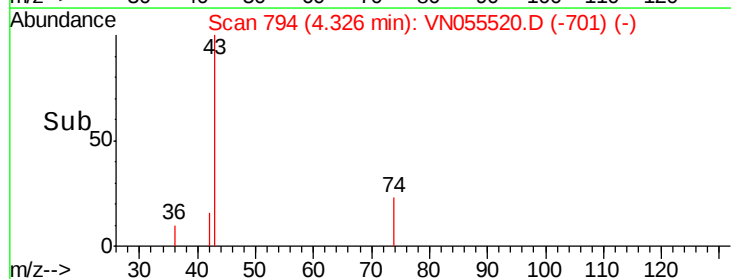
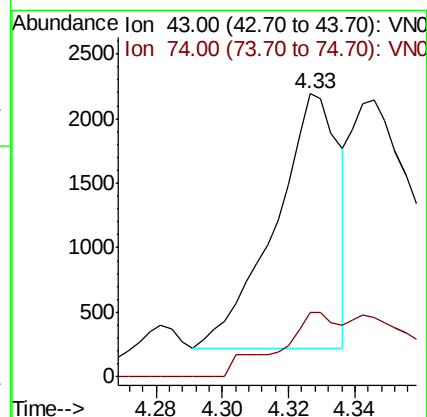
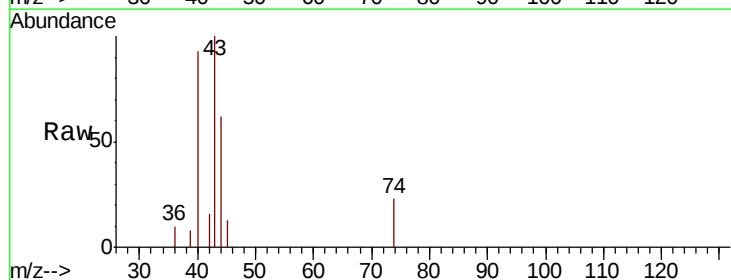
Acq: 10 May 2019 1:39

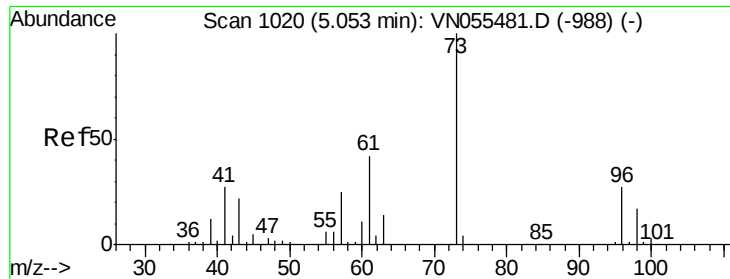
Tgt Ion: 43 Resp: 2661

Ion Ratio Lower Upper

43 100

74 24.1 16.3 24.5

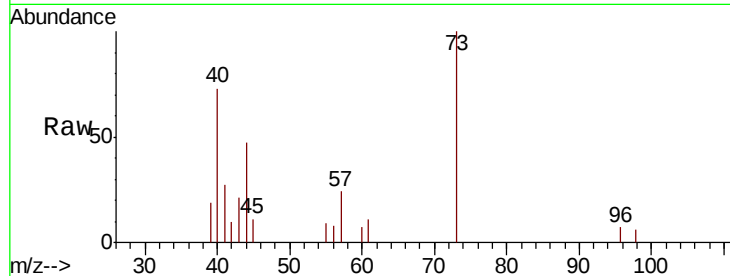




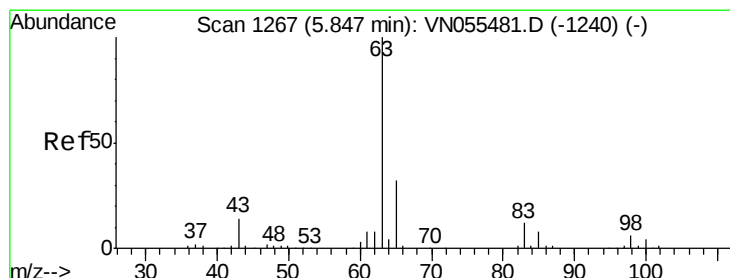
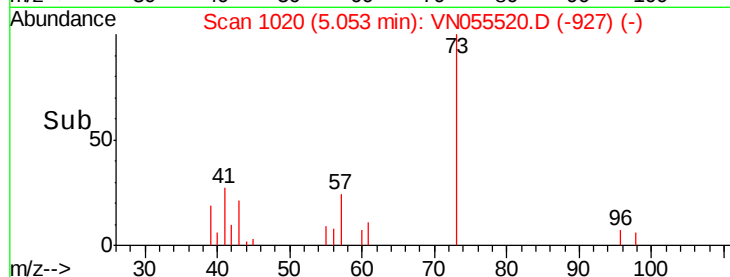
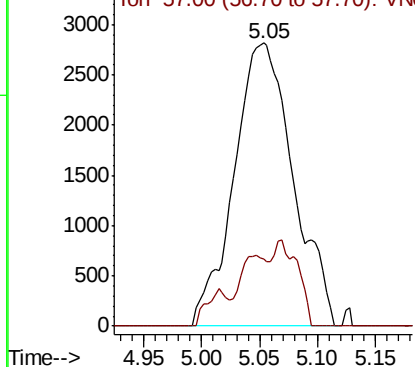
#19
Methvl tert-butvl Ether
Concen: 0.300 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VN055520.D
Acq: 10 May 2019 1:39

Instrument :
MSVOA_N
ClientSampleId :
CKMW-03

Tot Ion: 73 Resp: 9968
Ion Ratio Lower Upper
73 100
57 23.6 20.0 30.0

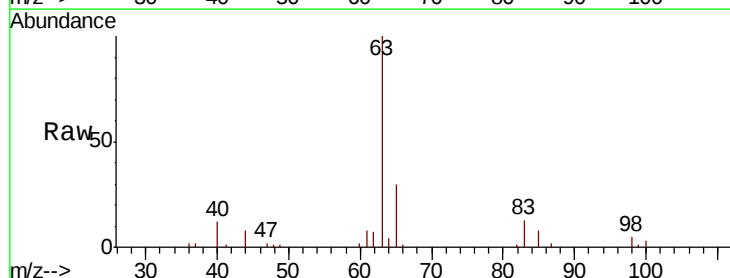


Abundance Ion 73.00 (72.70 to 73.70): VN0
Ion 57.00 (56.70 to 57.70): VN0

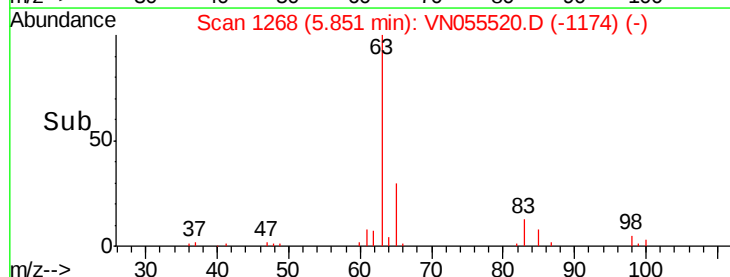
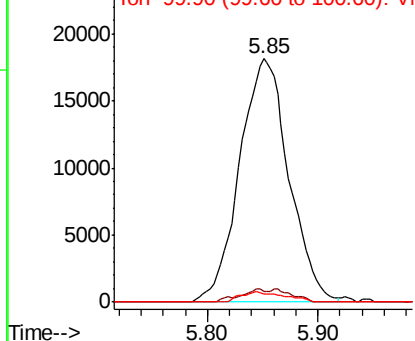


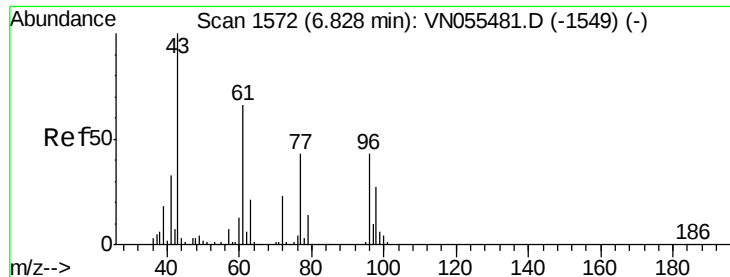
#24
1,1-Dichloroethane
Concen: 2.502 ug/l
RT: 5.85 min Scan# 1268
Delta R.T. 0.00 min
Lab File: VN055520.D
Acq: 10 May 2019 1:39

Tgt Ion: 63 Resp: 56245
Ion Ratio Lower Upper
63 100
98 4.6 3.0 9.0
100 3.4 1.9 5.7



Abundance Ion 62.90 (62.60 to 63.60): VN0
Ion 97.90 (97.60 to 98.60): VN0
Ion 99.90 (99.60 to 100.60): VN0

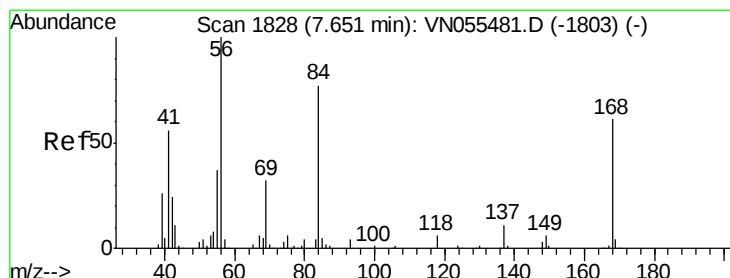
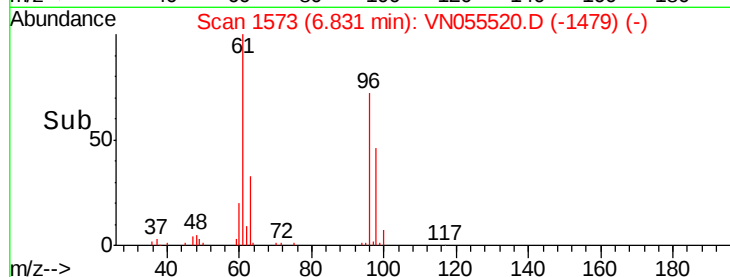
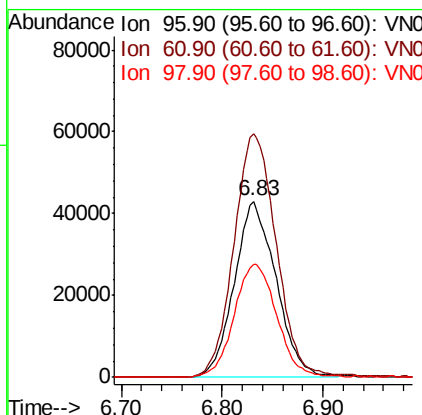
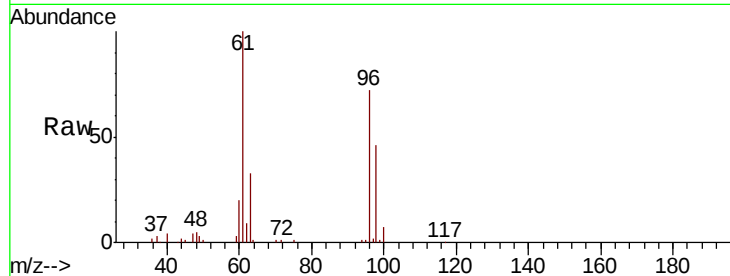




#27
 cis-1,2-Dichloroethene
 Concen: 9.858 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VN055520.D
 Acq: 10 May 2019 1:39

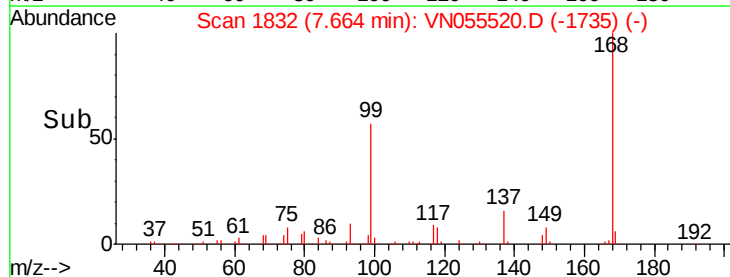
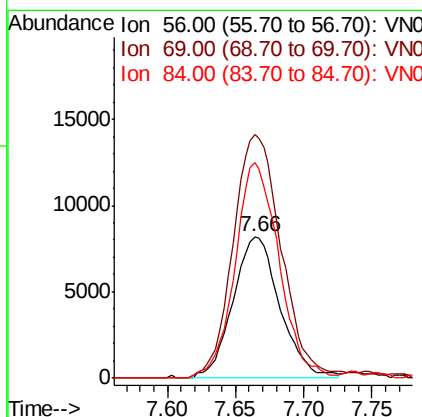
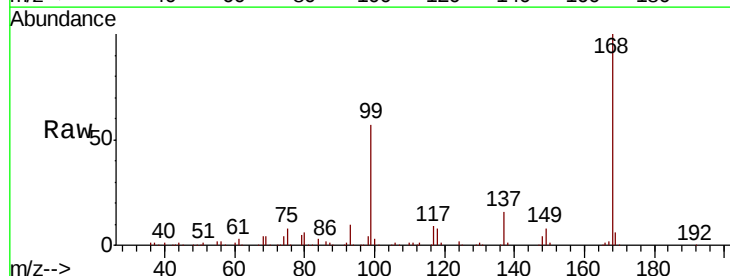
Instrument :
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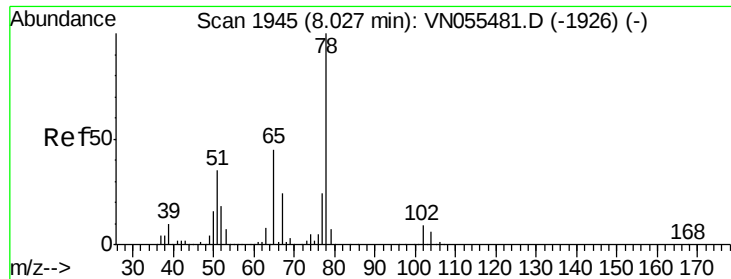
Tot Ion	Ratio	Lower	Upper
96	100		
61	141.2	0.0	310.8
98	65.8	0.0	129.4



#31
 Cyclohexane
 Concen: 0.882 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. 0.01 min
 Lab File: VN055520.D
 Acq: 10 May 2019 1:39

Tgt Ion	Ratio	Lower	Upper
56	100		
69	172.2	26.0	39.0#
84	152.8	61.9	92.9#

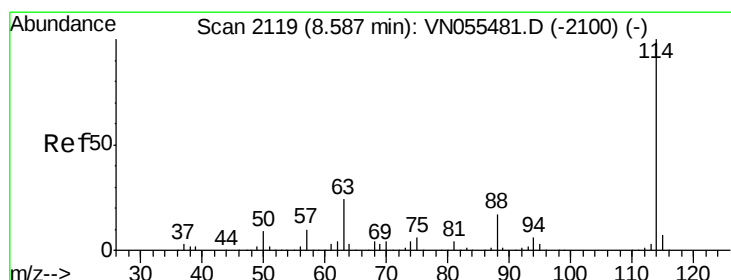
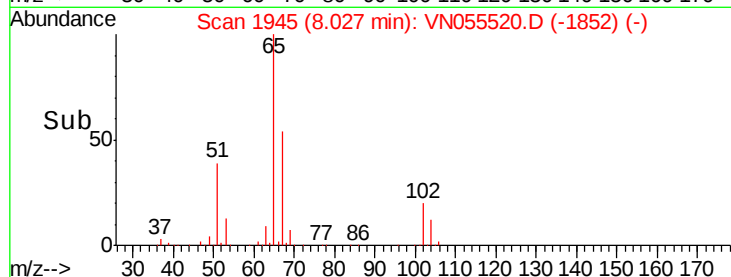
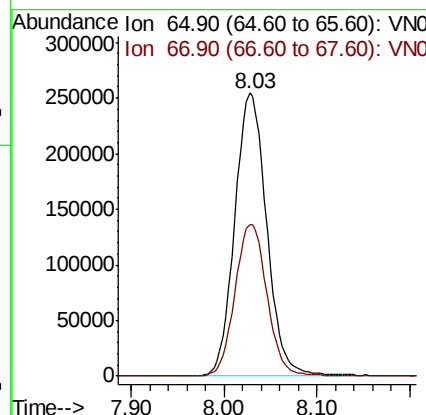
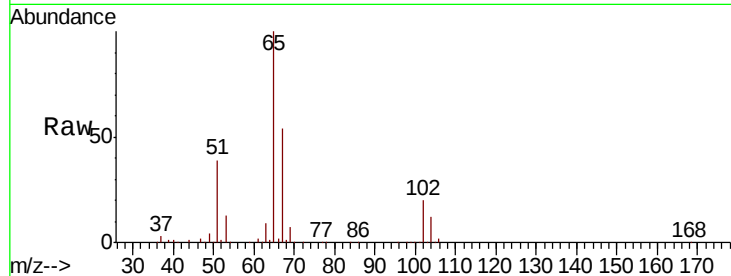




#33
 1,2-Dichloroethane-d4
 Concen: 44.124 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055520.D
 Acq: 10 May 2019 1:39

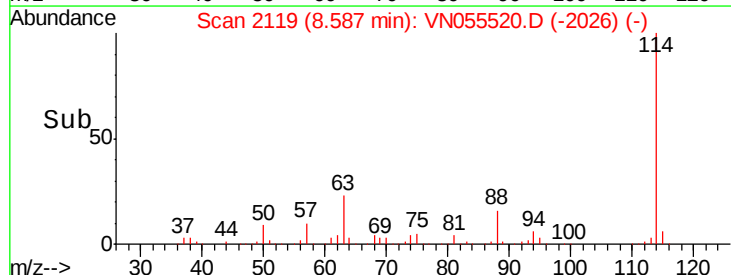
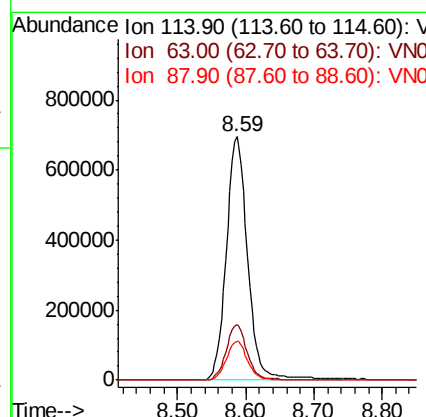
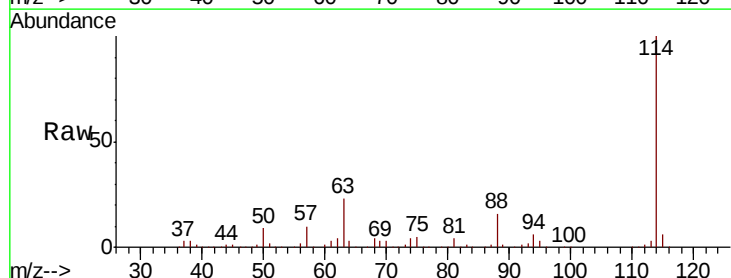
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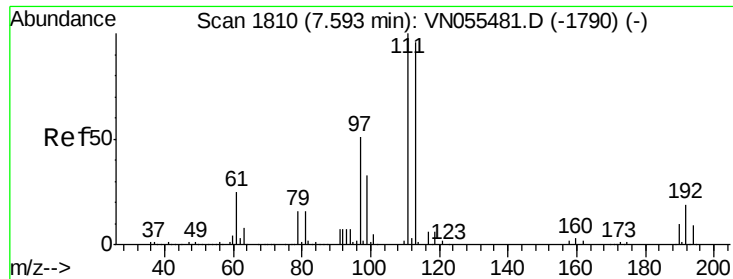
Tot Ion: 65 Resp: 608204
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 109.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055520.D
 Acq: 10 May 2019 1:39

Tgt Ion: 114 Resp: 1512630
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 47.4
 88 16.1 0.0 34.0

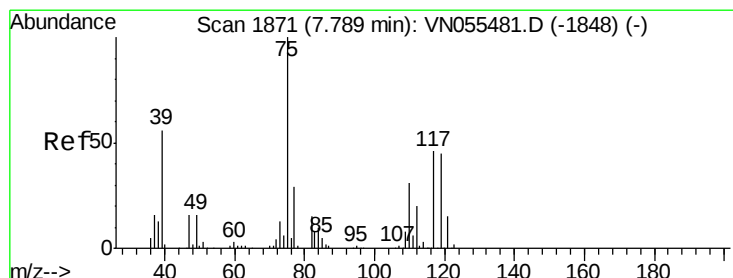
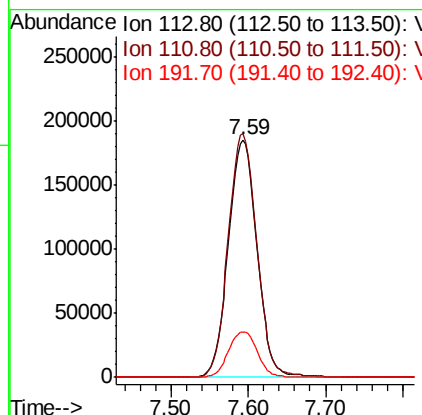
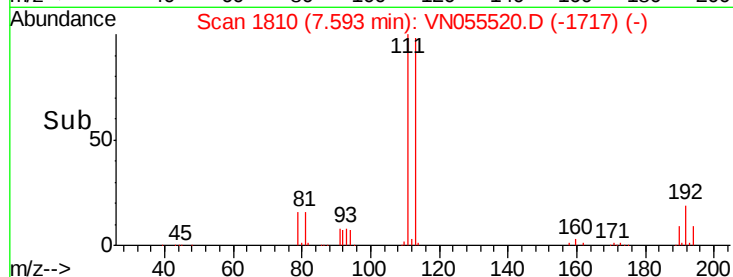
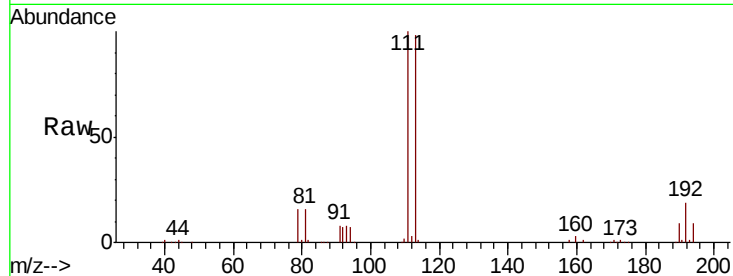




#35
 Dibromofluoromethane
 Concen: 48.641 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN055520.D
 Acq: 10 May 2019 1:39

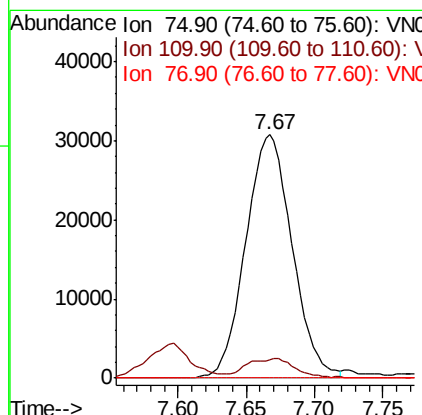
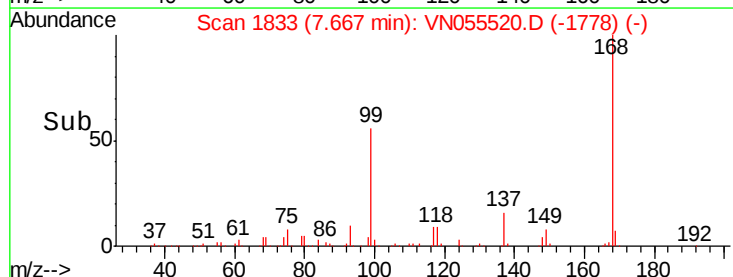
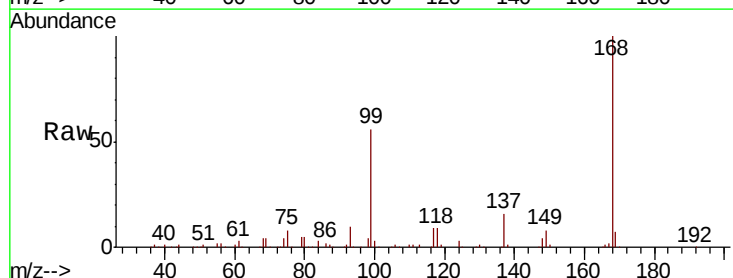
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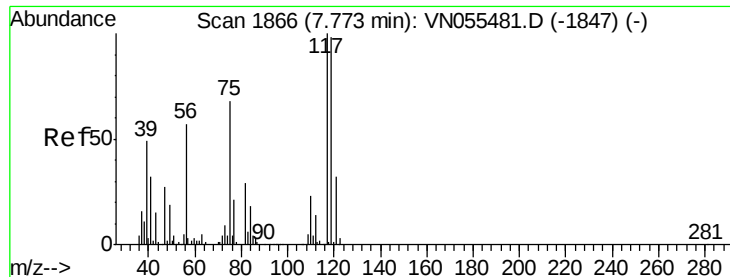
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.9	124.3
192	19.4	15.6	23.4



#36
 1,1-Dichloropropene
 Concen: 4.880 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN055520.D
 Acq: 10 May 2019 1:39

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	16.1	48.3#
77	0.0	24.6	37.0#





#38

Carbon Tetrachloride

Concen: 7.004 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN055520.D

Acq: 10 May 2019 1:39

Instrument :

MSVOA_N

ClientSampleId :

CKMW-03

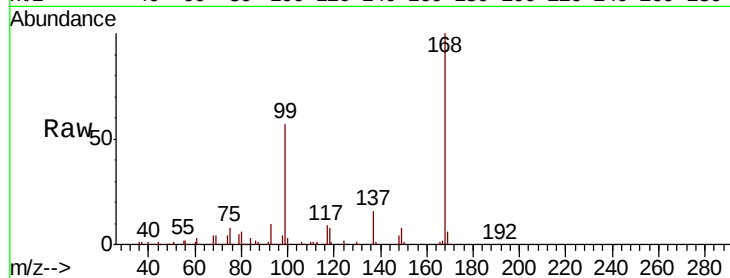
Tot Ion:117 Resp: 87885

Ion Ratio Lower Upper

117 100

119 5.7 77.8 116.6#

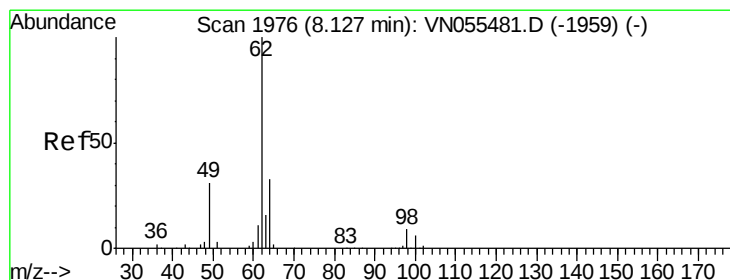
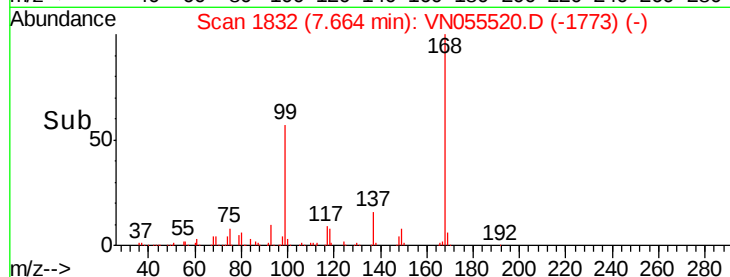
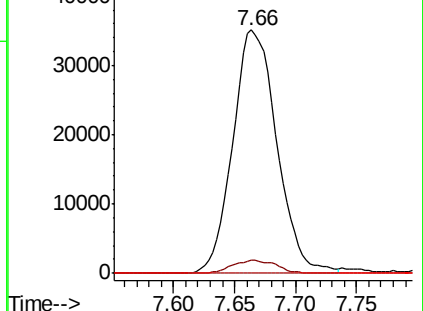
121 0.0 25.2 37.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#42

1,2-Dichloroethane

Concen: 0.205 ug/l

RT: 8.13 min Scan# 1977

Delta R.T. 0.00 min

Lab File: VN055520.D

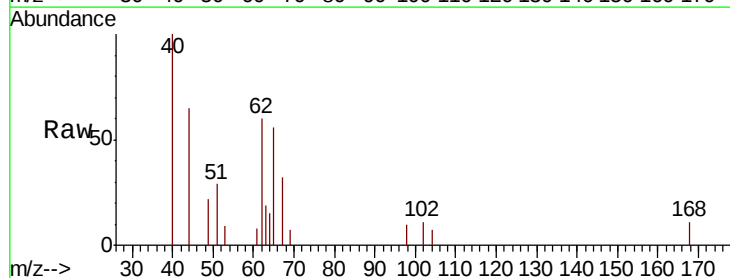
Acq: 10 May 2019 1:39

Tgt Ion: 62 Resp: 3339

Ion Ratio Lower Upper

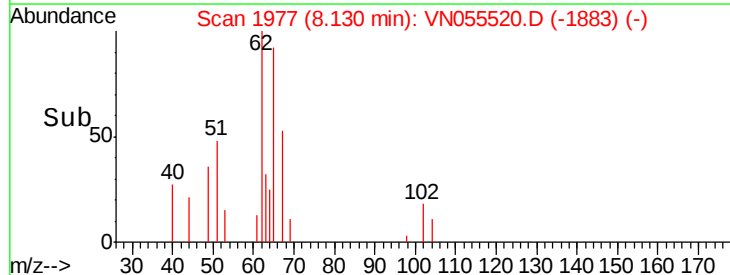
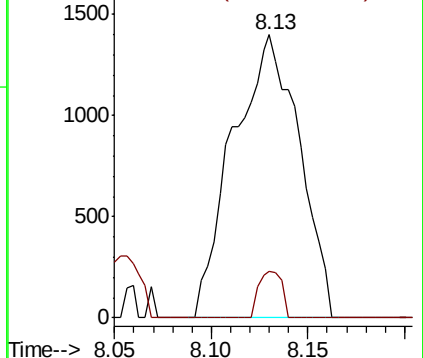
62 100

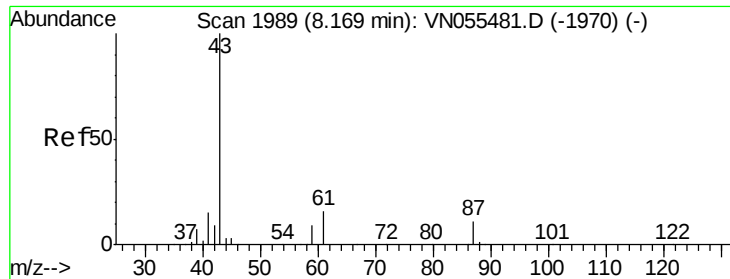
98 5.8 0.0 17.4



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#43

Isopropyl Acetate

Concen: 0.571 ug/l

RT: 8.28 min Scan# 2025

Delta R.T. 0.12 min

Lab File: VN055520.D

Acq: 10 May 2019 1:39

Instrument :

MSVOA_N

ClientSampleId :

CKMW-03

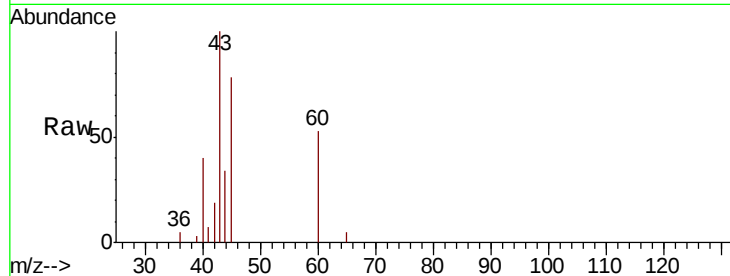
Tot Ion: 43 Resp: 14090

Ion Ratio Lower Upper

43 100

61 0.0 15.1 22.7#

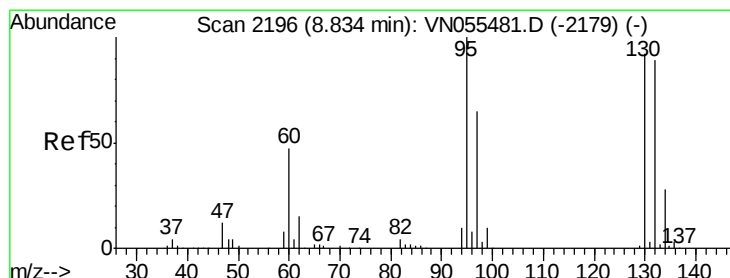
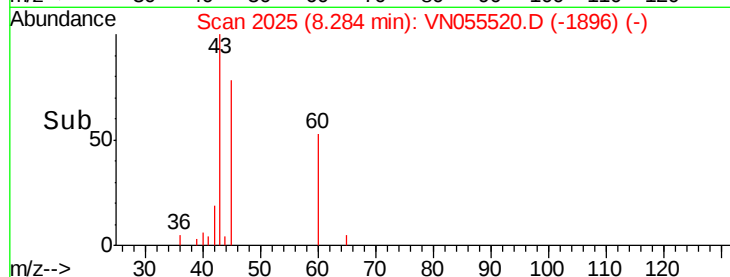
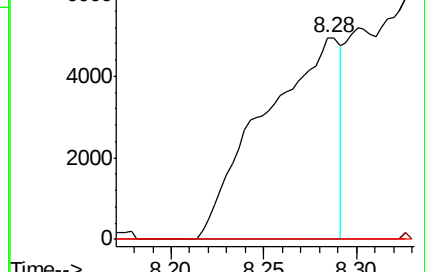
87 0.0 9.0 13.6#



Abundance Ion 43.00 (42.70 to 43.70): VN055520.D (-2025) (-)

Ion 61.00 (60.70 to 61.70): VN055520.D (-2025) (-)

Ion 87.00 (86.70 to 87.70): VN055520.D (-2025) (-)



#44

Trichloroethene

Concen: 7.553 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN055520.D

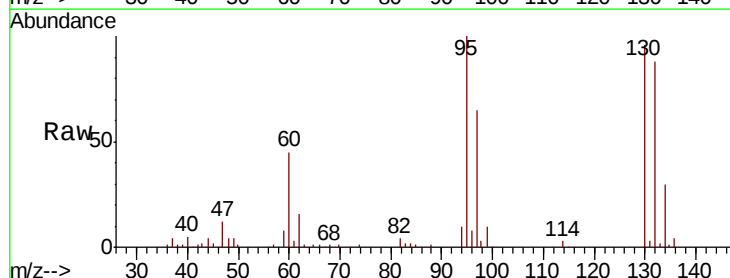
Acq: 10 May 2019 1:39

Tgt Ion:130 Resp: 83119

Ion Ratio Lower Upper

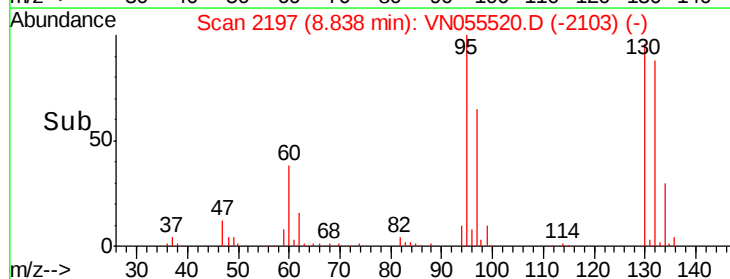
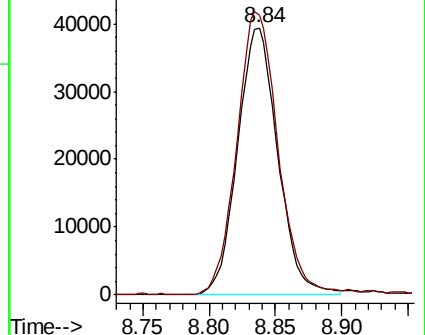
130 100

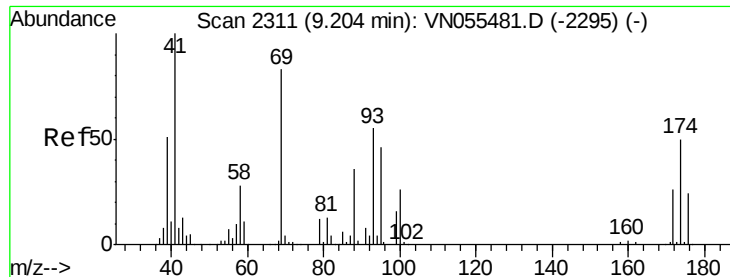
95 104.5 0.0 216.8



Abundance Ion 129.80 (129.50 to 130.50): VN055520.D (-2197) (-)

Ion 94.90 (94.60 to 95.60): VN055520.D (-2197) (-)





#49

1,4-Dioxane

Concen: 1.199 ug/l

RT: 9.22 min Scan# 2315

Delta R.T. 0.01 min

Lab File: VN055520.D

Acq: 10 May 2019 1:39

Instrument :

MSVOA_N

ClientSampleId :

CKMW-03

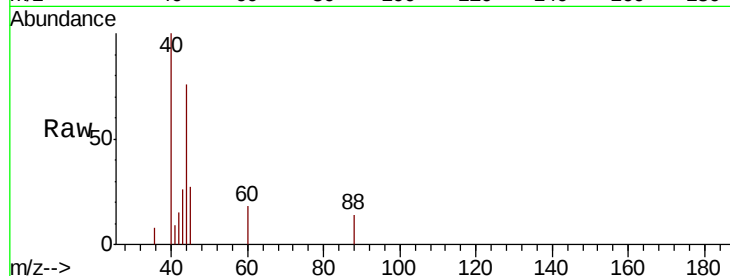
Tot Ion: 88 Resp: 278

Ion Ratio Lower Upper

88 100

43 77.7 27.8 41.8#

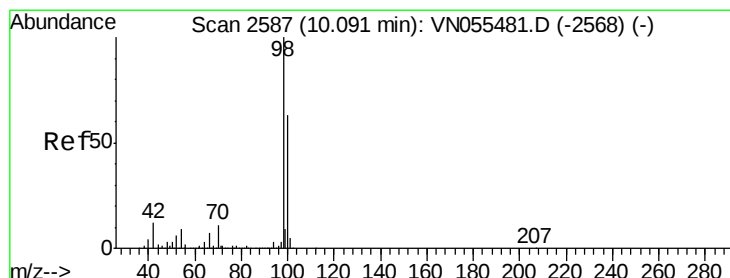
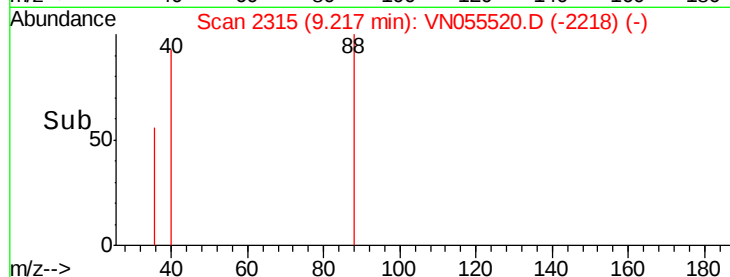
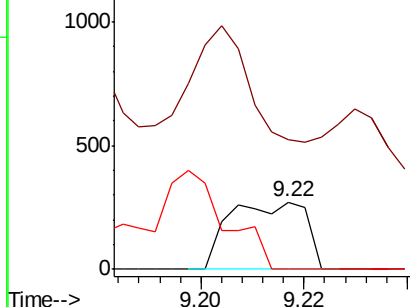
58 0.0 61.8 92.6#



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: 47.942 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055520.D

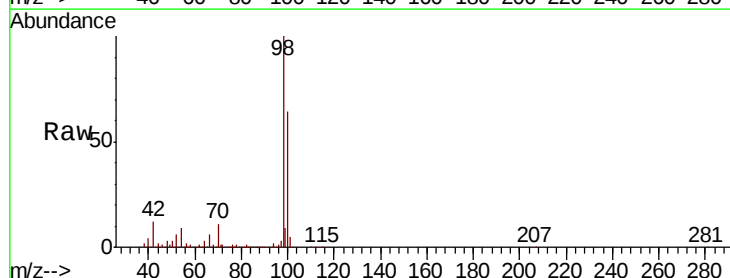
Acq: 10 May 2019 1:39

Tgt Ion: 98 Resp: 1822985

Ion Ratio Lower Upper

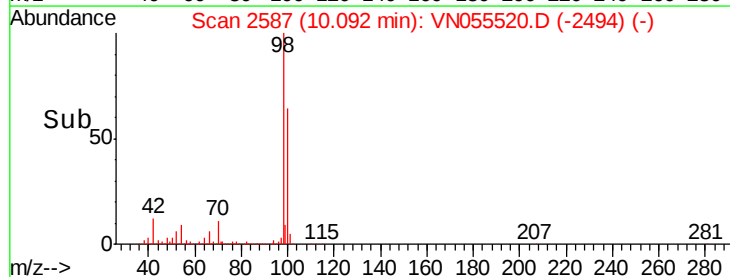
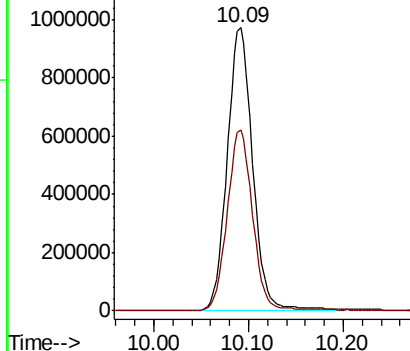
98 100

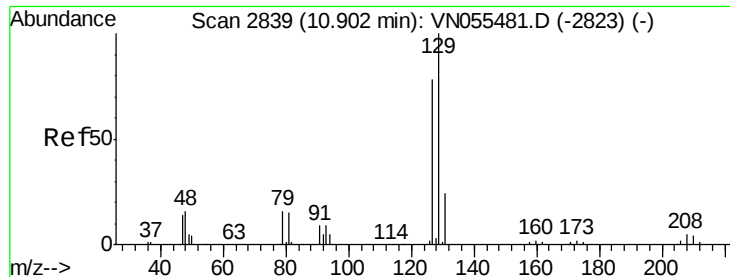
100 63.8 50.4 75.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

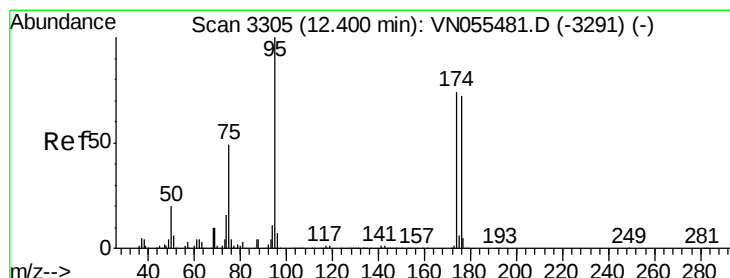
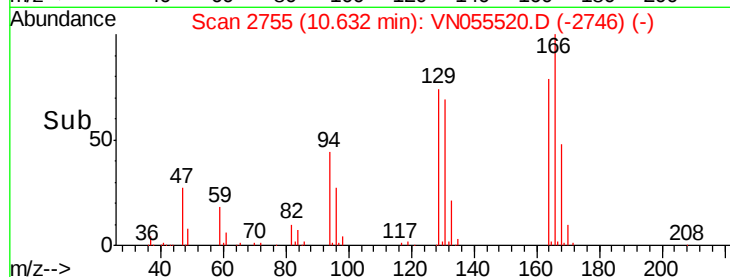
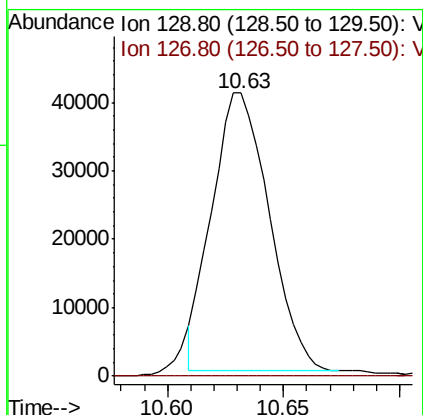
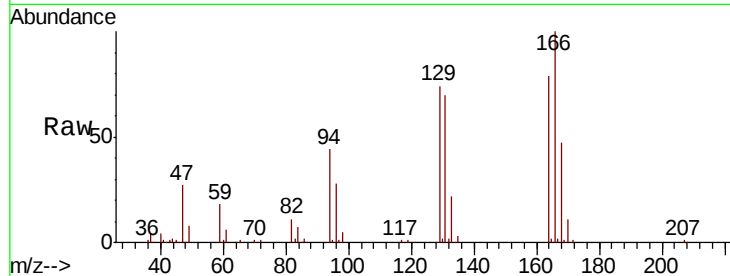




#60
 Dibromochloromethane
 Concen: 7.133 ug/l
 RT: 10.63 min Scan# 2755
 Delta R.T. -0.27 min
 Lab File: VN055520.D
 Acq: 10 May 2019 1:39

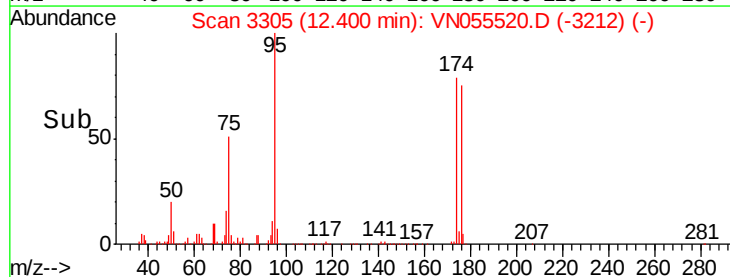
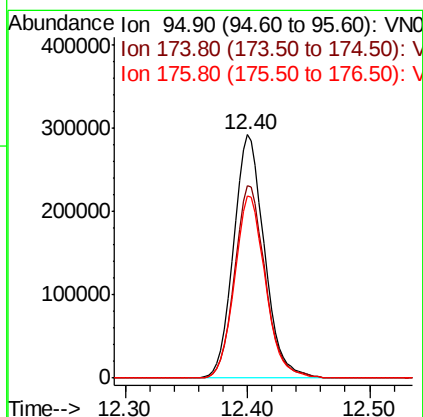
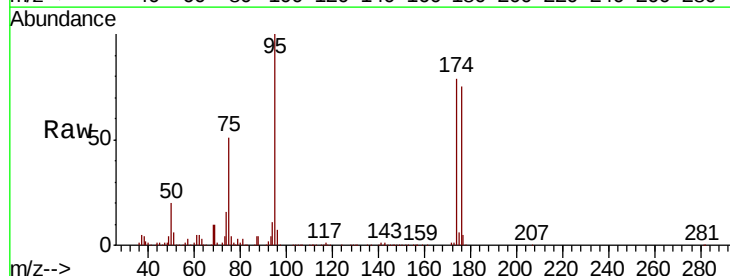
Instrument :
 MSVOA_N
 ClientSampleId :
 CKMW-03

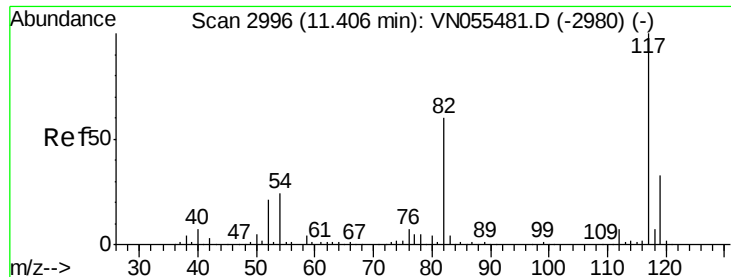
Tot Ion:129 Resp: 69473
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.6 116.0#



#62
 4-Bromofluorobenzene
 Concen: 39.996 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN055520.D
 Acq: 10 May 2019 1:39

Tgt Ion: 95 Resp: 512800
 Ion Ratio Lower Upper
 95 100
 174 78.9 0.0 152.2
 176 74.9 0.0 147.8

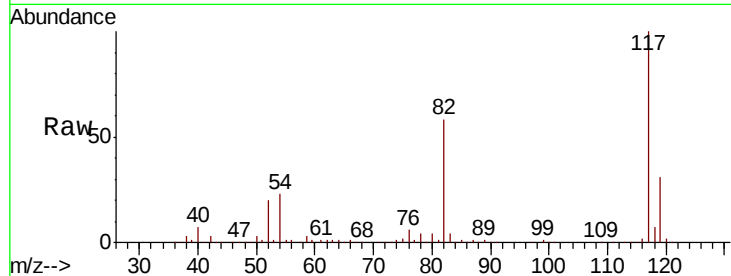




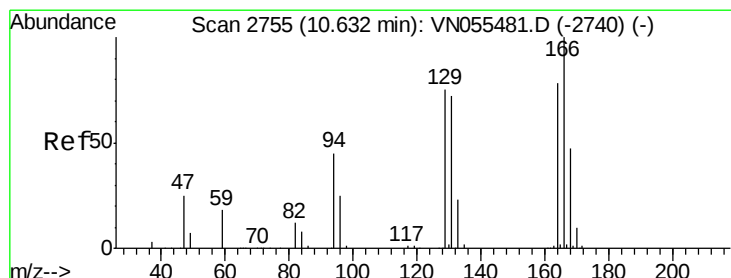
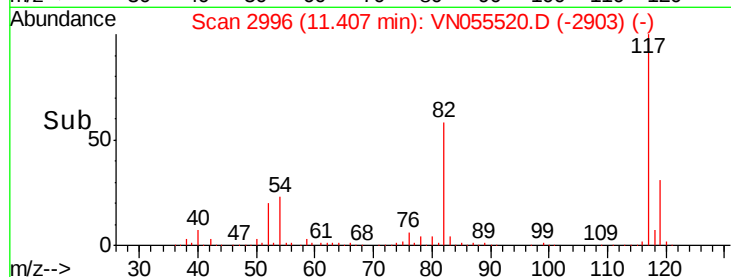
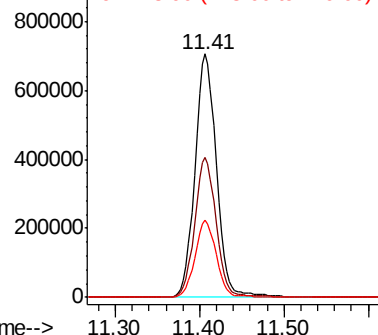
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055520.D
Acq: 10 May 2019 1:39

Instrument :
MSVOA_N
ClientSampleId :
CKMW-03

Tot Ion:117 Resp: 1249352
Ion Ratio Lower Upper
117 100
82 57.6 48.0 72.0
119 31.5 26.0 39.0

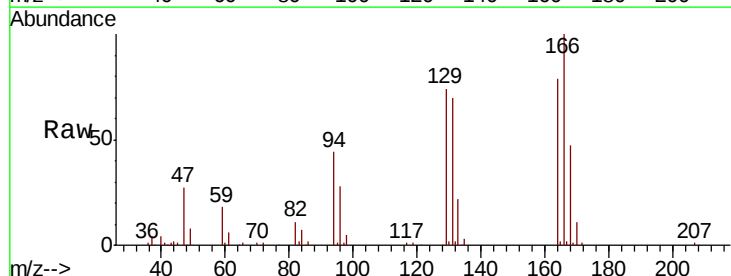


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

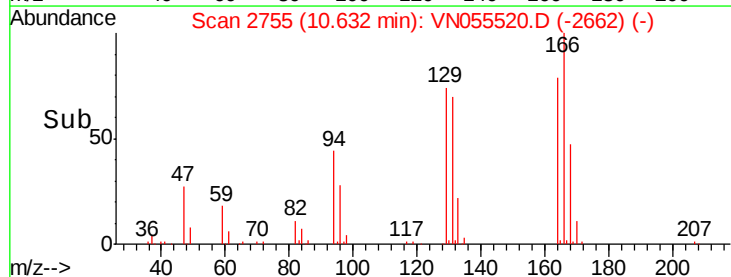
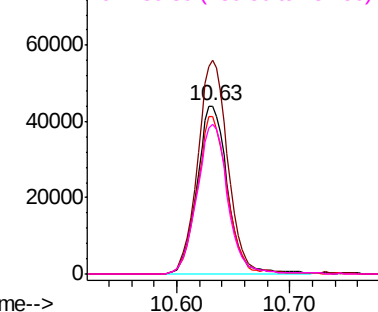


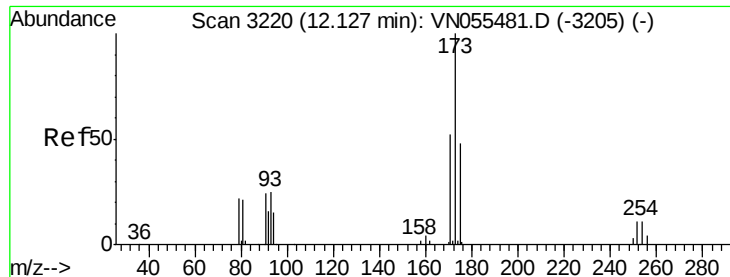
#64
Tetrachloroethene
Concen: 8.103 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN055520.D
Acq: 10 May 2019 1:39

Tgt Ion:164 Resp: 82953
Ion Ratio Lower Upper
164 100
166 127.0 102.6 153.8
129 93.7 77.0 115.6
131 88.9 73.7 110.5



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





#71

Bromoform

Concen: 0.625 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN055520.D

Acq: 10 May 2019 1:39

Instrument :

MSVOA_N

ClientSampleId :

CKMW-03

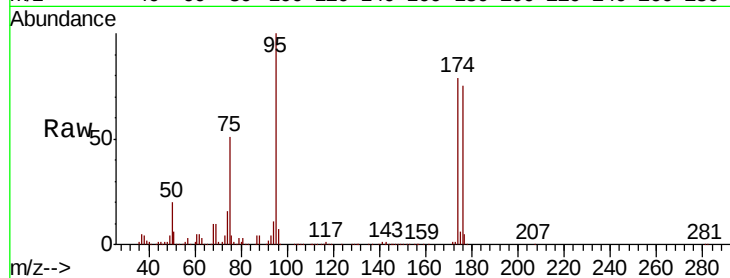
Tot Ion:173 Resp: 3735

Ion Ratio Lower Upper

173 100

175 671.5 24.1 72.4#

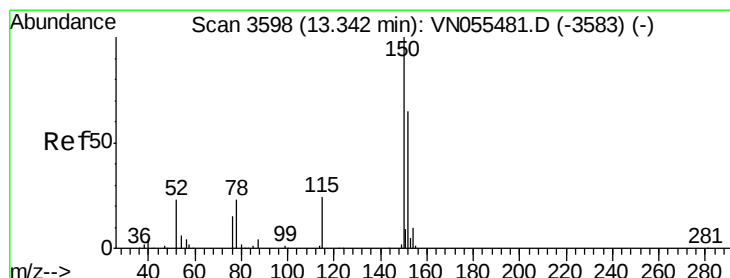
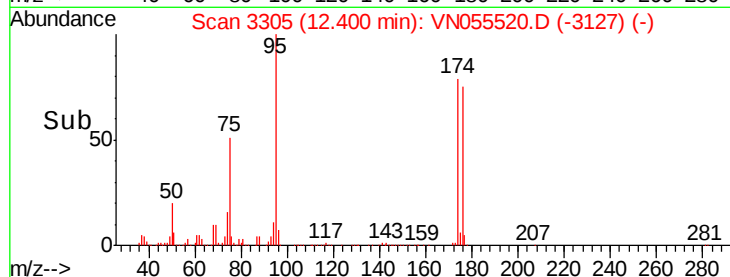
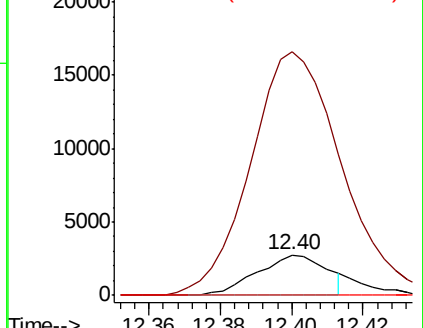
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN055520.D

Acq: 10 May 2019 1:39

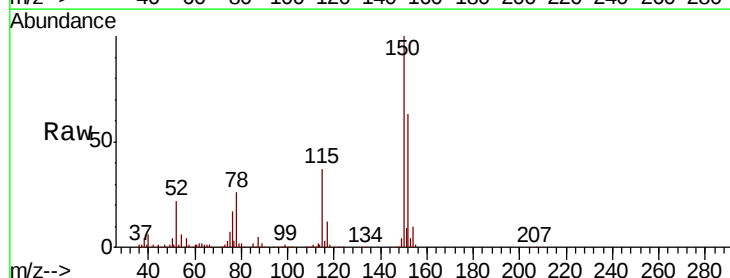
Tgt Ion:152 Resp: 330097

Ion Ratio Lower Upper

152 100

115 59.5 30.1 90.5

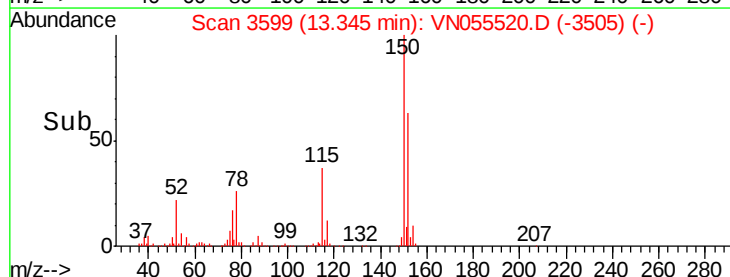
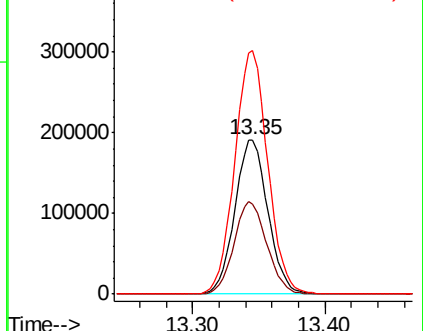
150 158.2 0.0 355.0

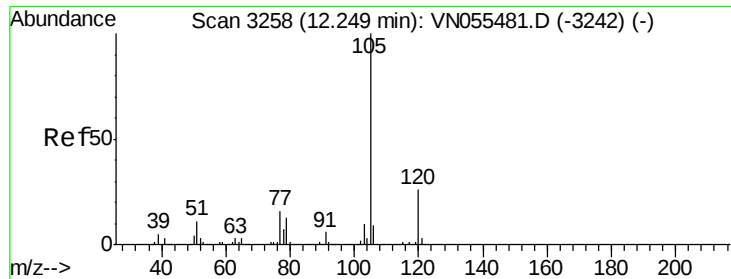


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.24 min Scan# 3256

Delta R.T. -0.01 min

Lab File: VN055520.D

Acq: 10 May 2019 1:39

Instrument :

MSVOA_N

ClientSampleId :

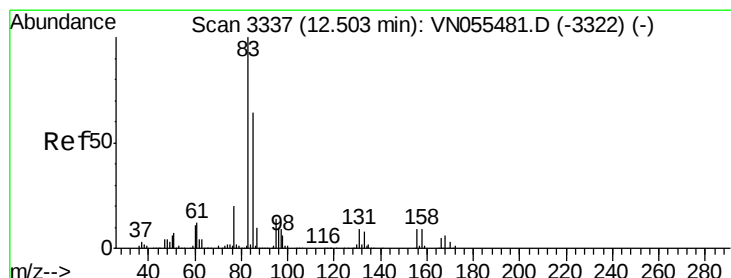
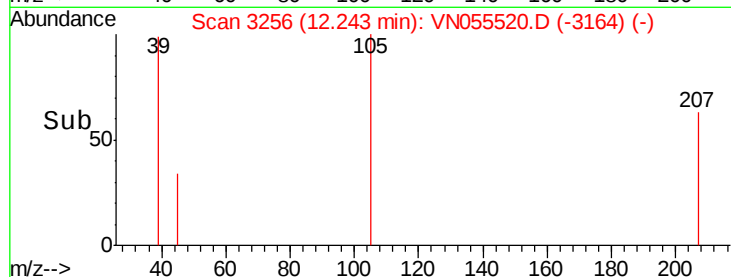
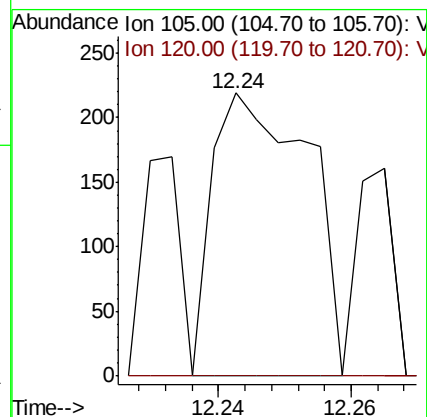
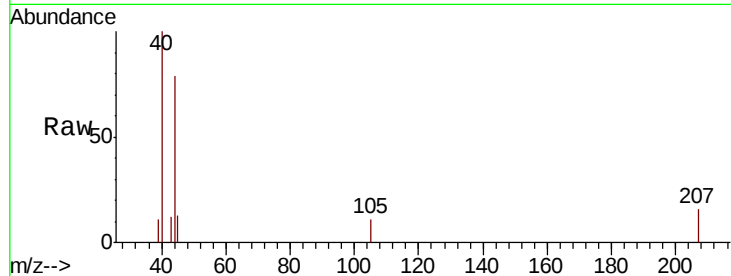
CKMW-03

Tot Ion: 105 Resp: 219

Ion Ratio Lower Upper

105 100

120 0.0 13.0 39.0#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3336

Delta R.T. -0.00 min

Lab File: VN055520.D

Acq: 10 May 2019 1:39

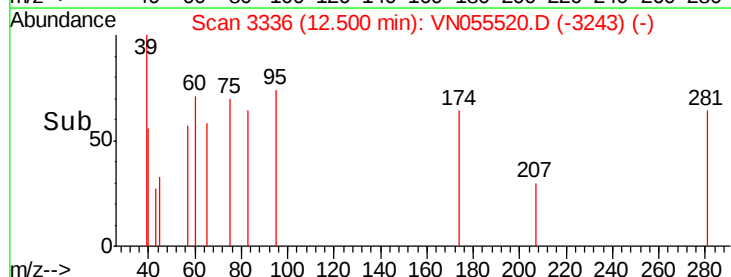
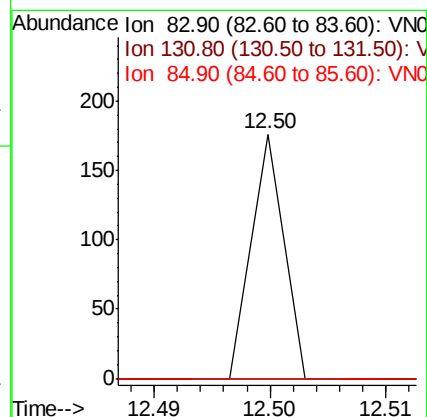
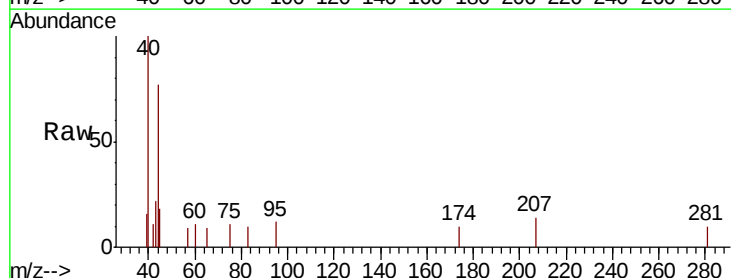
Tgt Ion: 83 Resp: 34

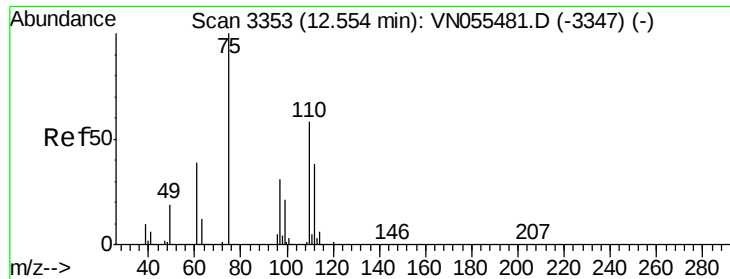
Ion Ratio Lower Upper

83 100

131 0.0 4.5 13.5#

85 0.0 32.0 96.0#

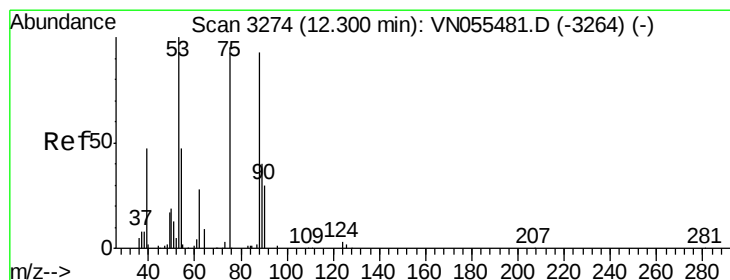
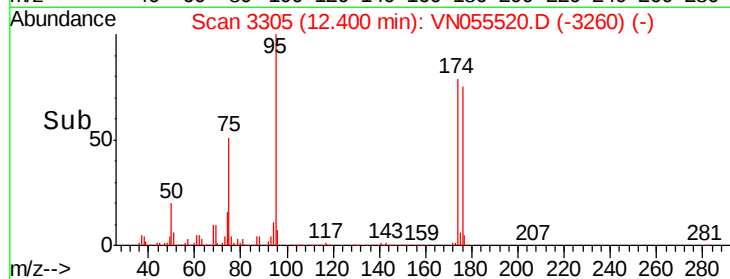
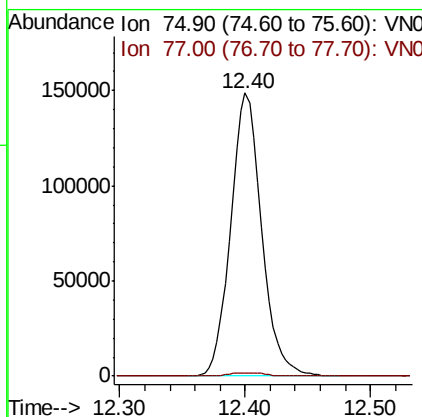
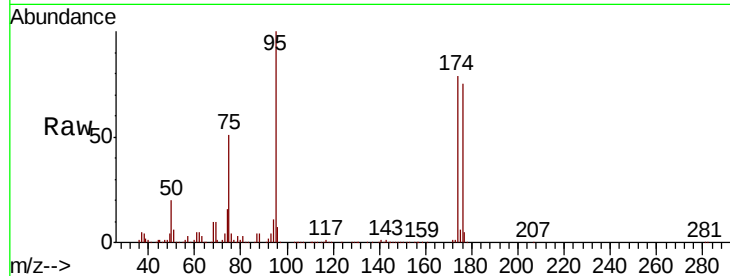




#76
 1,2,3-Trichloropropane
 Concen: 28.264 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN055520.D
 Acq: 10 May 2019 1:39

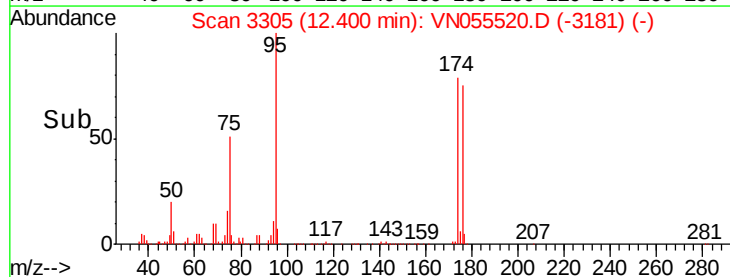
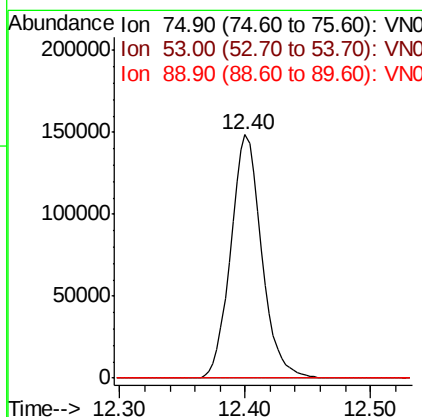
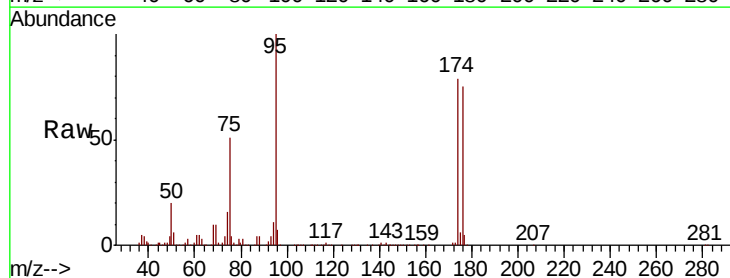
Instrument :
 MSVOA_N
 ClientSampleId :
 CKMW-03

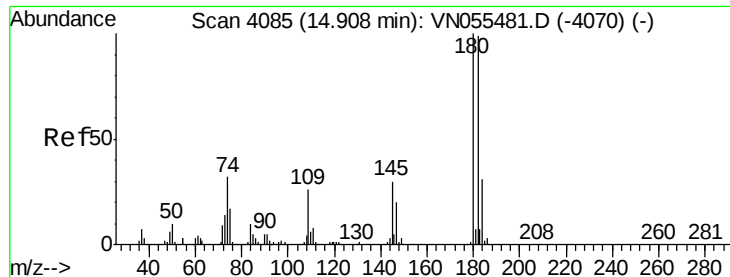
Tot Ion: 75 Resp: 253988
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 104.289 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN055520.D
 Acq: 10 May 2019 1:39

Tgt Ion: 75 Resp: 253988
 Ion Ratio Lower Upper
 75 100
 53 0.1 86.5 129.7#
 89 0.0 35.7 53.5#

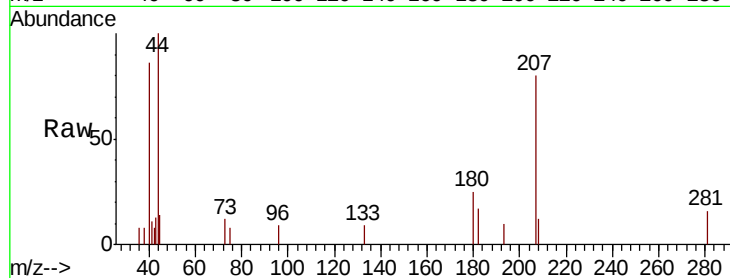




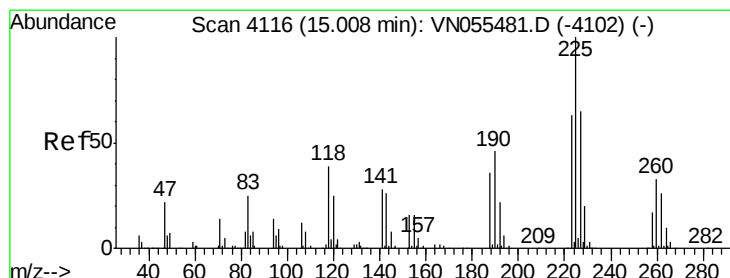
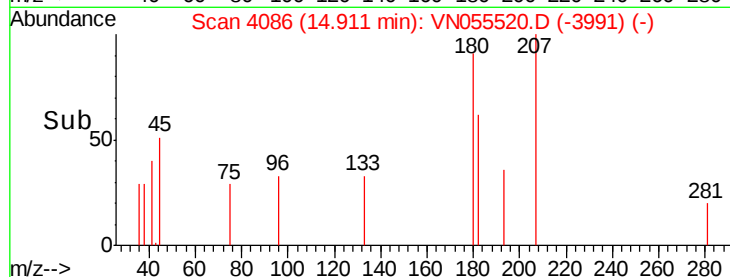
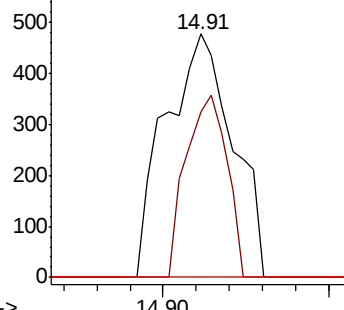
#93
 1,2,4-Trichlorobenzene
 Concen: 3.334 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN055520.D
 Acq: 10 May 2019 1:39

Instrument :
 MSVOA_N
 ClientSampled :
 CKMW-03

Tot Ion:180 Resp: 673
 Ion Ratio Lower Upper
 180 100
 182 45.5 48.7 146.1#
 145 0.0 15.3 45.9#

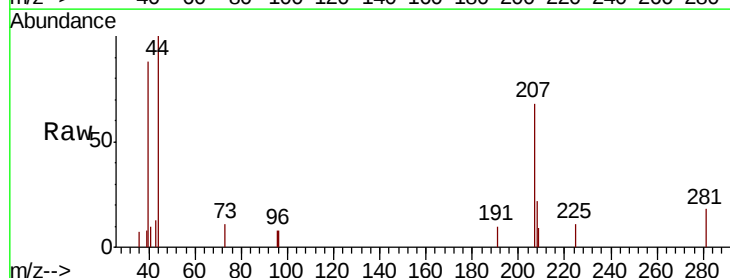


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

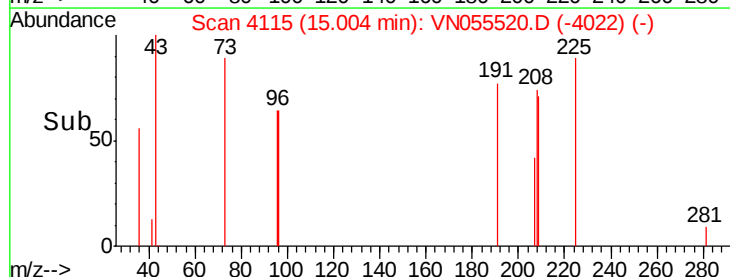
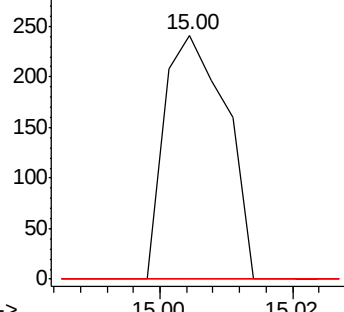


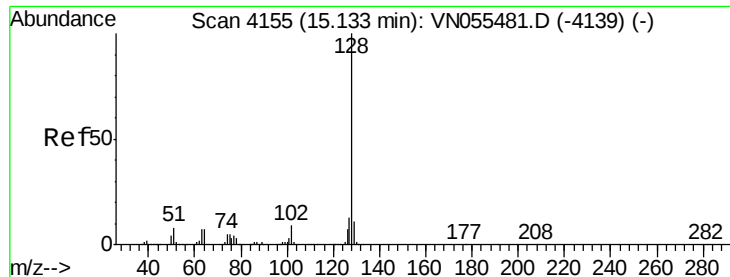
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.00 min Scan# 4115
 Delta R.T. -0.00 min
 Lab File: VN055520.D
 Acq: 10 May 2019 1:39

Tgt Ion:225 Resp: 155
 Ion Ratio Lower Upper
 225 100
 223 0.0 31.4 94.3#
 227 0.0 32.0 96.0#



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





#95

Naphthalene

Concen: 3.026 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055520.D

Acq: 10 May 2019 1:39

Instrument :

MSVOA_N

ClientSampleId :

CKMW-03

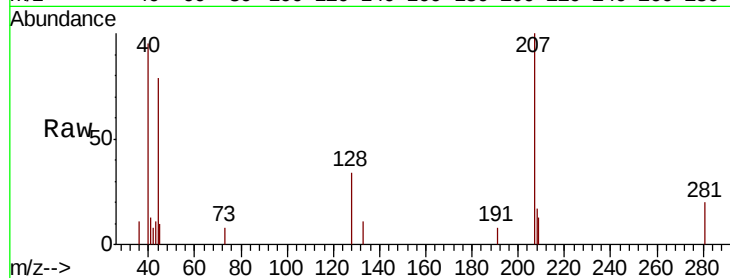
Tot Ion:128 Resp: 1309

Ion Ratio Lower Upper

128 100

127 4.8 10.0 15.0#

129 0.0 8.8 13.2#



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

15.13

600

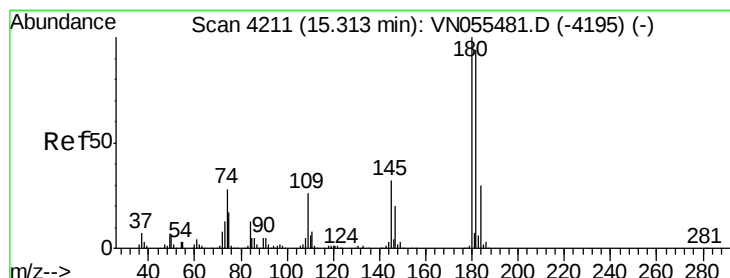
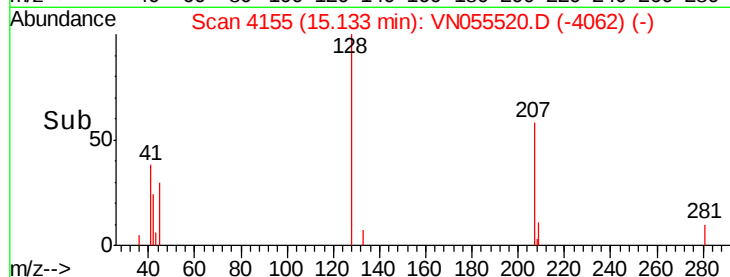
400

200

0

15.10 15.15

Time-->



#96

1,2,3-Trichlorobenzene

Concen: 2.483 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN055520.D

Acq: 10 May 2019 1:39

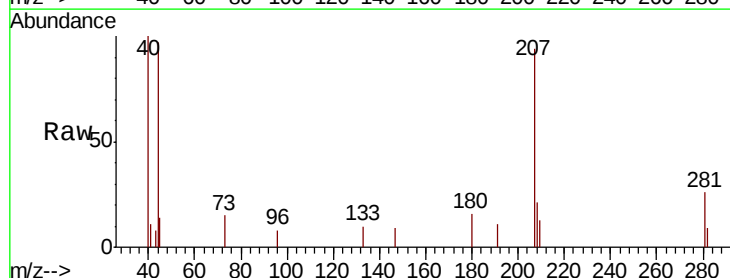
Tgt Ion:180 Resp: 335

Ion Ratio Lower Upper

180 100

182 53.4 47.1 141.3

145 9.3 15.8 47.4#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

15.31

400

300

200

100

0

15.28 15.30 15.32

Time-->

