

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050919\
 Data File : VN055527.D
 Acq On : 10 May 2019 4:34
 Operator : JC/SP
 Sample : K2758-27
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CKMW-07

Quant Time: May 10 06:01:47 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	868854	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1448668	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1209921	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	315211	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	599042	45.79	ug/l	0.00
Spiked Amount			Recovery	=	91.58%	
35) Dibromofluoromethane	7.59	113	457928	49.00	ug/l	0.00
Spiked Amount			Recovery	=	98.00%	
50) Toluene-d8	10.09	98	1760713	48.35	ug/l	0.00
Spiked Amount			Recovery	=	96.70%	
62) 4-Bromofluorobenzene	12.40	95	500059	40.72	ug/l	0.00
Spiked Amount			Recovery	=	81.44%	

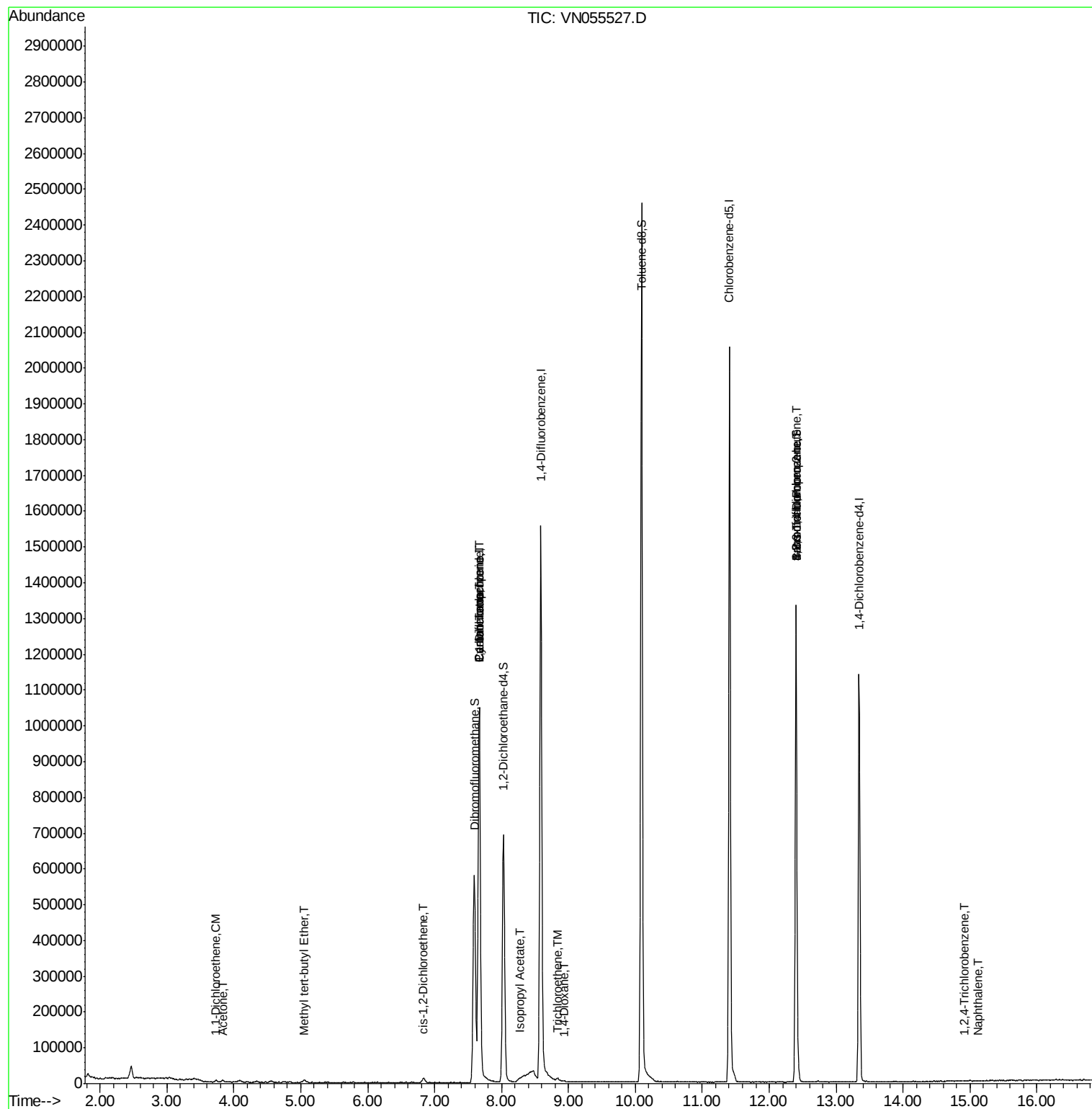
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) 1,1-Dichloroethene	3.73	96	2805	0.295	ug/l #	71
16) Acetone	3.82	43	8237	1.360	ug/l	90
18) Methyl Acetate	4.33	43	7114	Below Cal	#	66
19) Methyl tert-butyl Ether	5.05	73	8239	0.261	ug/l	97
27) cis-1,2-Dichloroethene	6.83	96	7250	0.609	ug/l	93
31) Cyclohexane	7.67	56	18722	0.887	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	70471	4.938	ug/l #	51
38) Carbon Tetrachloride	7.66	117	81198	6.757	ug/l #	15
43) Isopropyl Acetate	8.27	43	10693	0.452	ug/l #	63
44) Trichloroethene	8.83	130	2540	0.241	ug/l	93
49) 1,4-Dioxane	8.94	88	100	0.450	ug/l #	1
71) Bromoform	12.40	173	1600	0.277	ug/l #	1
73) Isopropylbenzene	12.26	105	194	Below Cal	#	49
75) 1,1,2,2-Tetrachloroethane	12.41	83	111	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	251083	29.260	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	251083	107.965	ug/l #	7
93) 1,2,4-Trichlorobenzene	14.91	180	75	3.220	ug/l #	11
95) Naphthalene	15.14	128	164	2.949	ug/l #	70

(#) = 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: VN055527.D

Acq: 10 May 2019 4:34

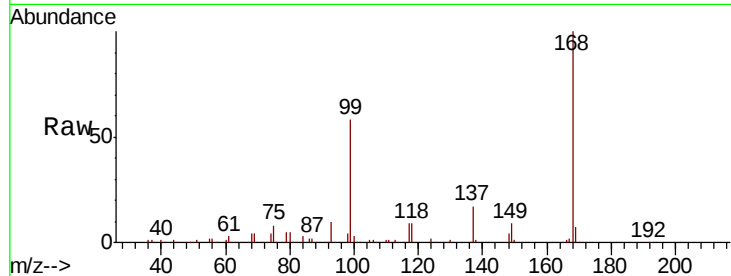
Instrument :
MSVOA_N
ClientSampled :
CKMW-07

Tot Ion:168 Resp: 868854

Ion Ratio Lower Upper

168 100

99 57.9 47.0 70.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

400000

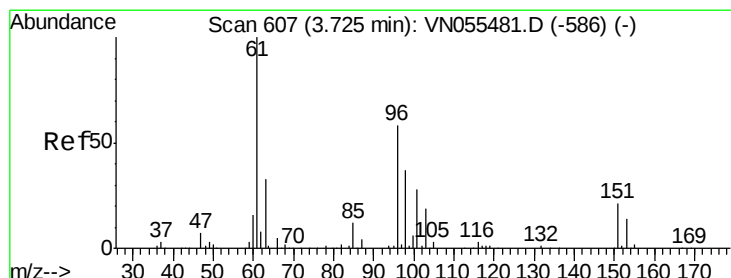
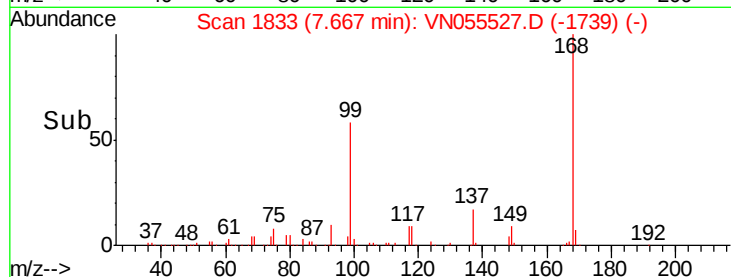
300000

200000

100000

0

Time-->



#12

1,1-Dichloroethene

Concen: 0.295 ug/l

RT: 3.73 min Scan# 609

Delta R.T. 0.01 min

Lab File: VN055527.D

Acq: 10 May 2019 4:34

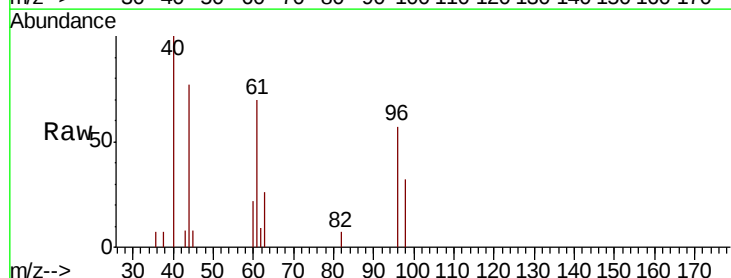
Tgt Ion: 96 Resp: 2805

Ion Ratio Lower Upper

96 100

61 122.7 138.7 208.1#

98 55.9 50.6 76.0



Abundance Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO

2000

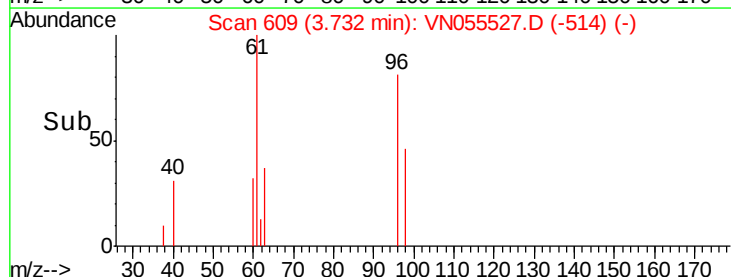
1500

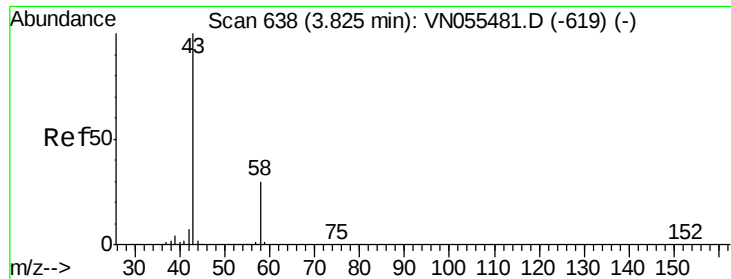
1000

500

0

Time-->





#16

Acetone

Concen: 1.360 ug/l

RT: 3.82 min Scan# 638

Delta R.T. -0.00 min

Lab File: VN055527.D

Acq: 10 May 2019 4:34

Instrument :

MSVOA_N

ClientSampleId :

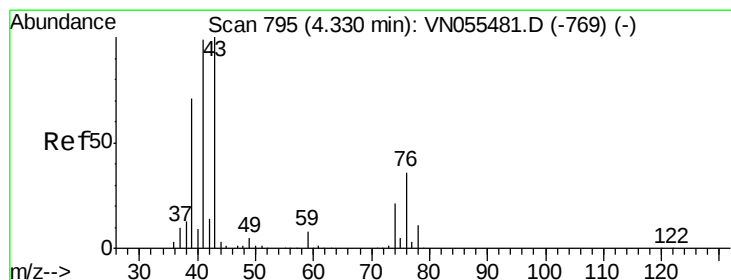
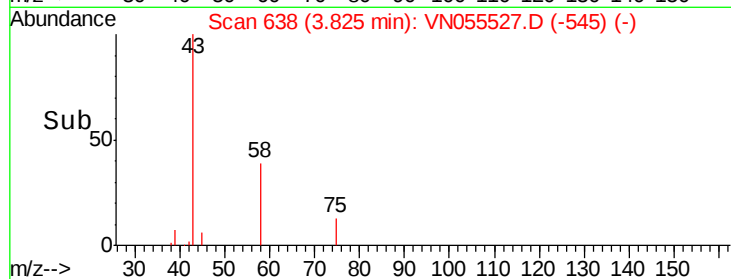
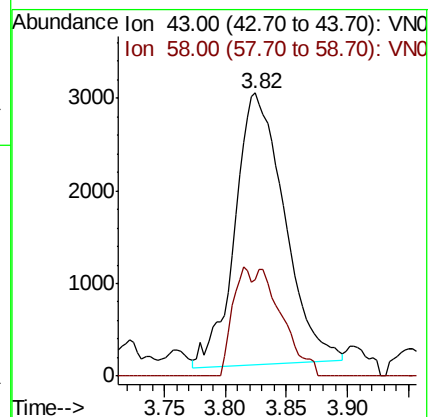
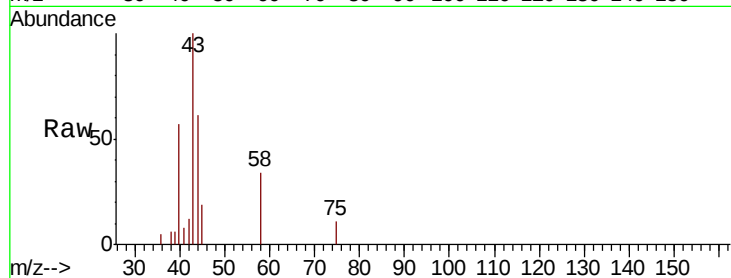
CKMW-07

Tot Ion: 43 Resp: 8237

Ion Ratio Lower Upper

43 100

58 35.9 24.2 36.2



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN055527.D

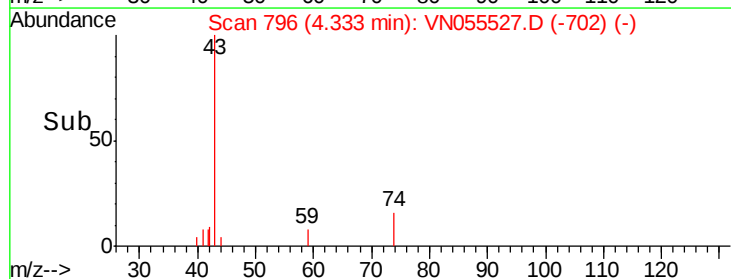
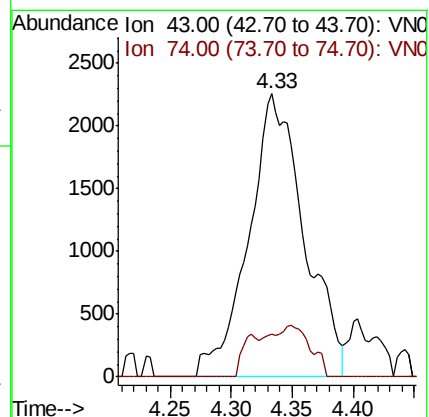
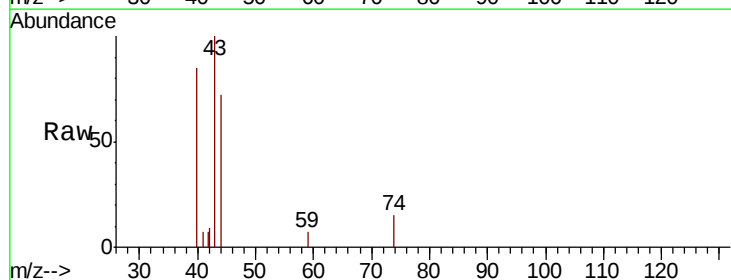
Acq: 10 May 2019 4:34

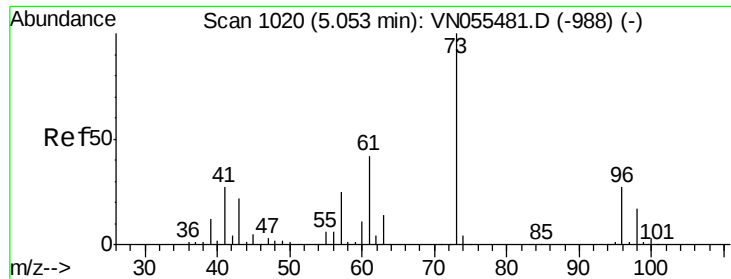
Tgt Ion: 43 Resp: 7114

Ion Ratio Lower Upper

43 100

74 4.6 16.3 24.5#

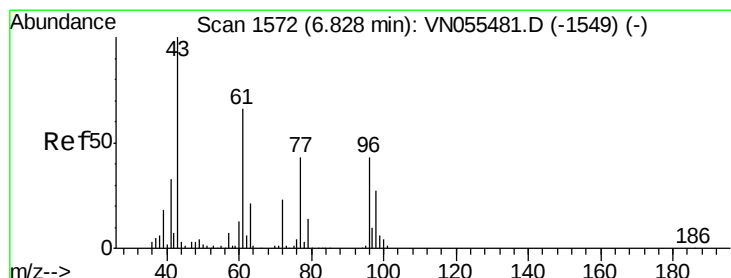
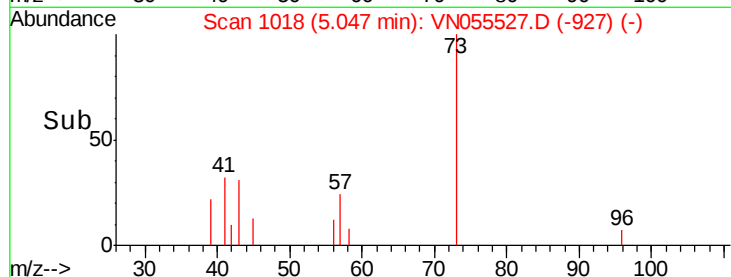
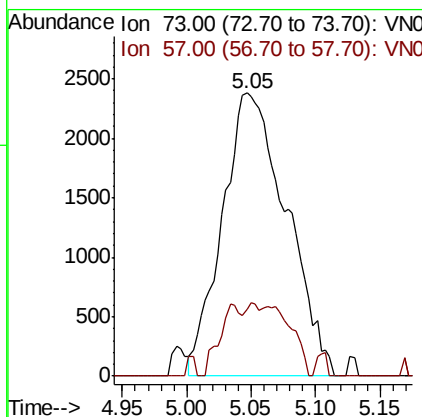
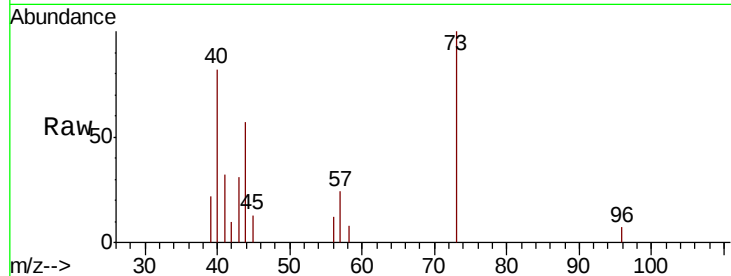




#19
Methvl tert-butvl Ether
Concen: 0.261 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.01 min
Lab File: VN055527.D
Acq: 10 May 2019 4:34

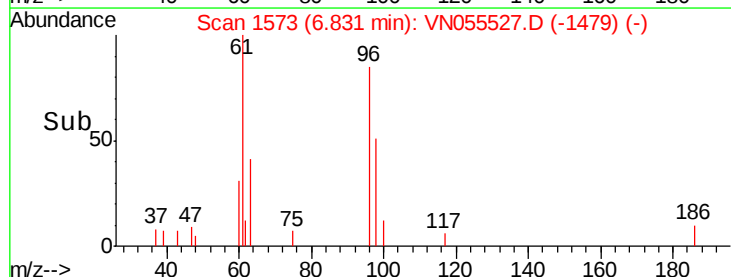
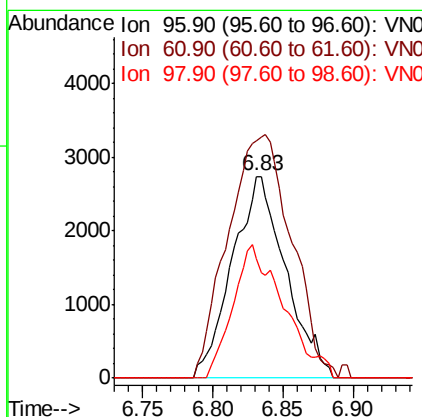
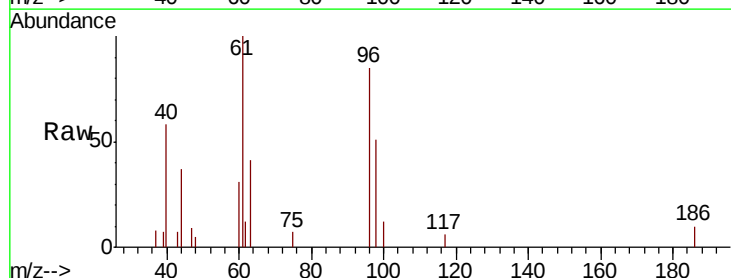
Instrument :
MSVOA_N
ClientSampleId :
CKMW-07

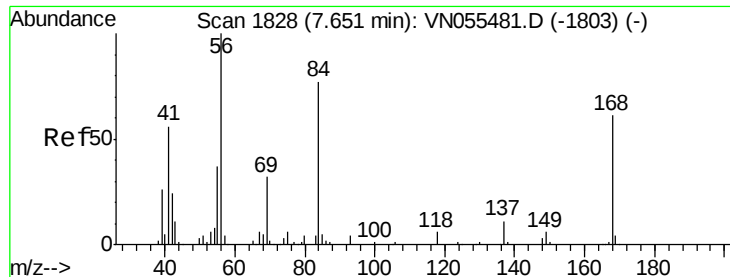
Tot Ion: 73 Resp: 8239
Ion Ratio Lower Upper
73 100
57 23.6 20.0 30.0



#27
cis-1,2-Dichloroethene
Concen: 0.609 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.00 min
Lab File: VN055527.D
Acq: 10 May 2019 4:34

Tgt Ion: 96 Resp: 7250
Ion Ratio Lower Upper
96 100
61 143.0 0.0 310.8
98 62.8 0.0 129.4

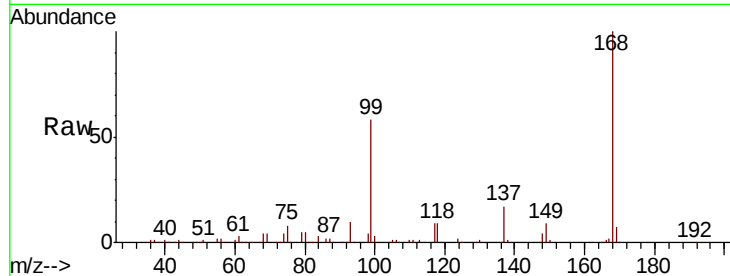




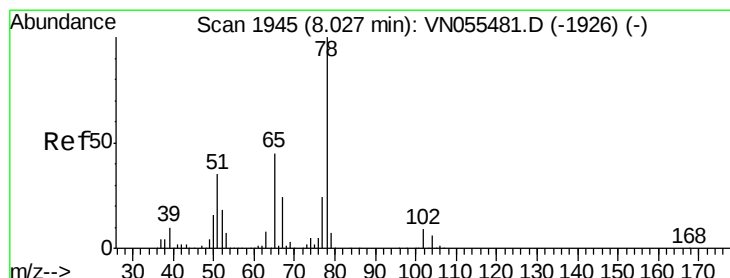
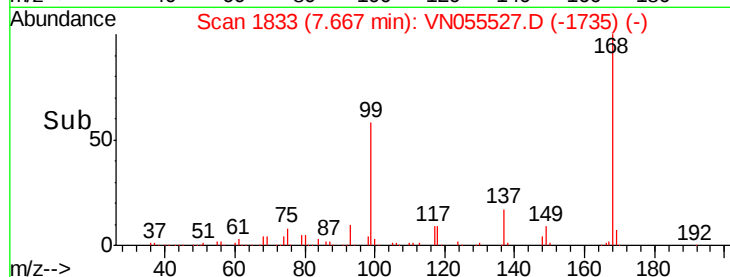
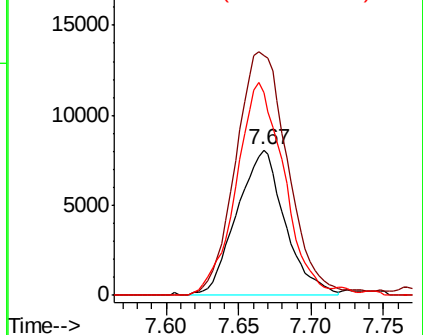
#31
Cyclohexane
Concen: 0.887 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.02 min
Lab File: VN055527.D
Acq: 10 May 2019 4:34

Instrument :
MSVOA_N
ClientSampleId :
CKMW-07

Tot Ion: 56 Resp: 18722
Ion Ratio Lower Upper
56 100
69 164.8 26.0 39.0#
84 139.9 61.9 92.9#

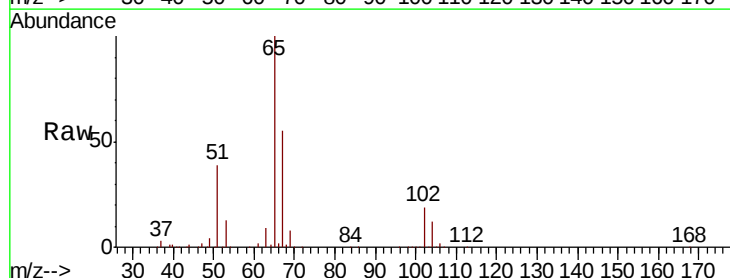


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

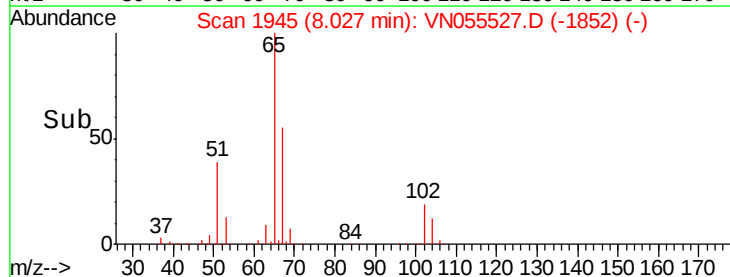
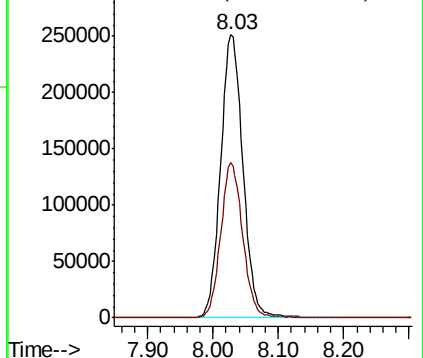


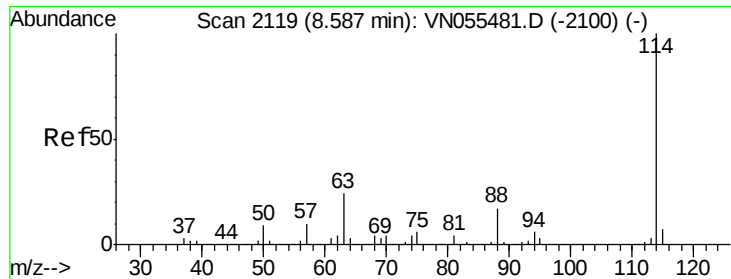
#33
1,2-Dichloroethane-d4
Concen: 45.791 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN055527.D
Acq: 10 May 2019 4:34

Tgt Ion: 65 Resp: 599042
Ion Ratio Lower Upper
65 100
67 53.6 0.0 109.6



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

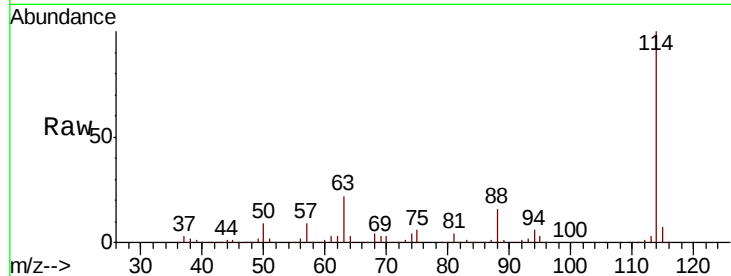




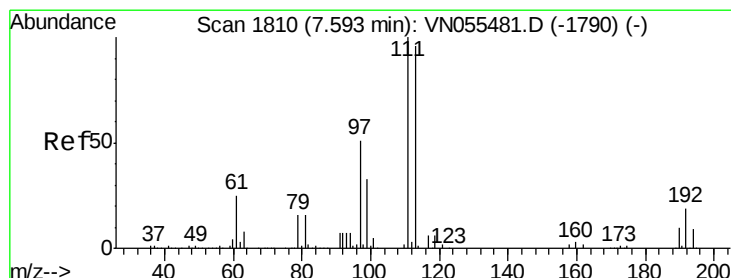
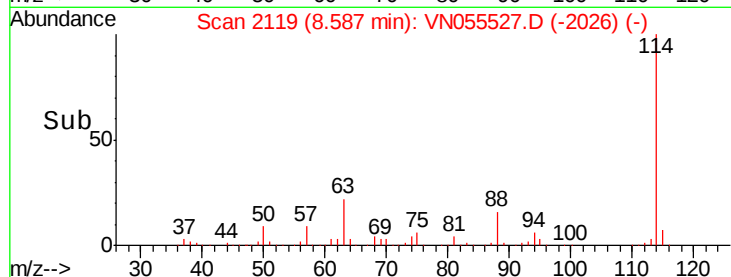
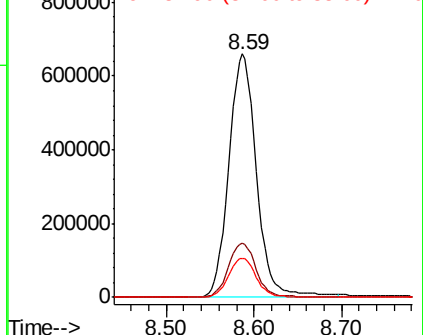
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN055527.D
 Acq: 10 May 2019 4:34

Instrument :
 MSVOA_N
 ClientSampleId :
 CKMW-07

Tot Ion:114 Resp: 1448668
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 47.4
 88 16.2 0.0 34.0

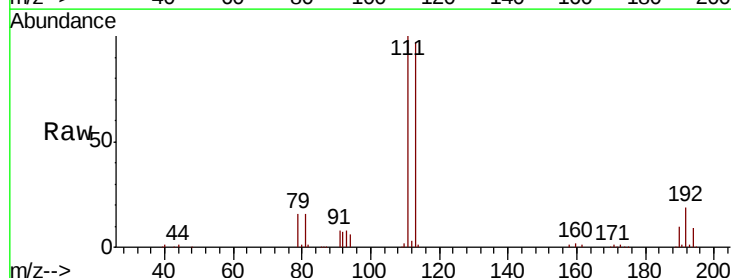


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

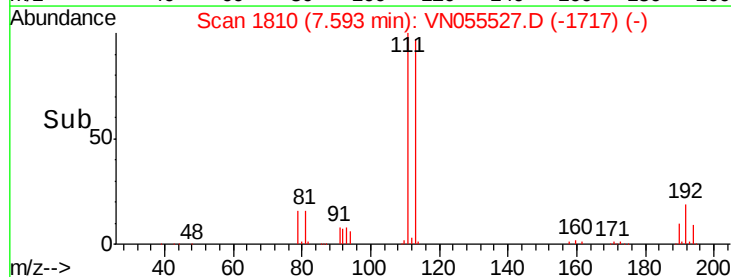
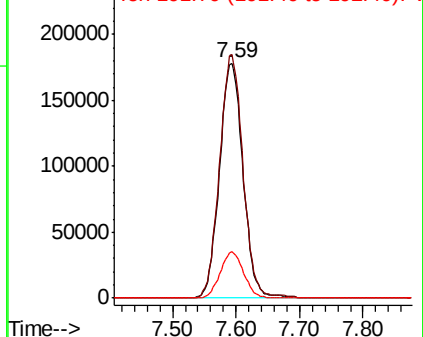


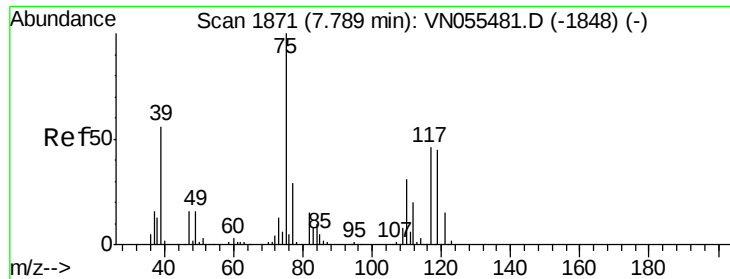
#35
 Dibromofluoromethane
 Concen: 49.002 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN055527.D
 Acq: 10 May 2019 4:34

Tgt Ion:113 Resp: 457928
 Ion Ratio Lower Upper
 113 100
 111 102.3 82.9 124.3
 192 19.5 15.6 23.4



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





#36

1,1-Dichloropropene

Concen: 4.938 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN055527.D

Acq: 10 May 2019 4:34

Instrument :

MSVOA_N

ClientSampleId :

CKMW-07

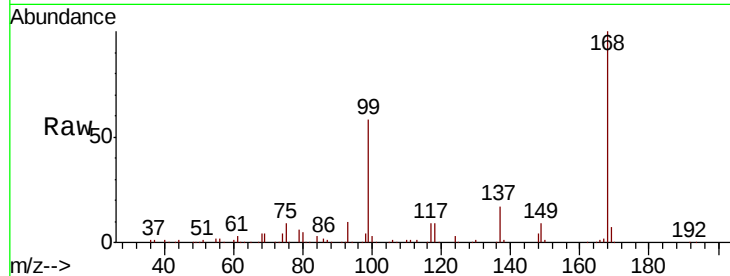
Tot Ion: 75 Resp: 70471

Ion Ratio Lower Upper

75 100

110 8.7 16.1 48.3#

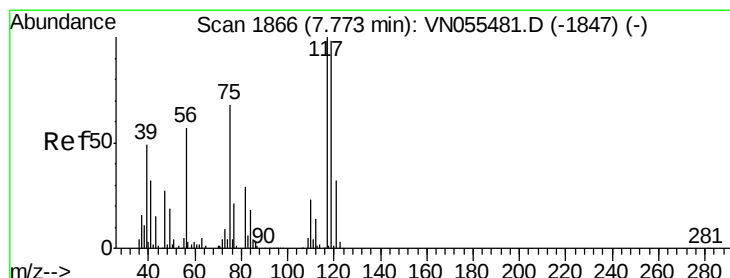
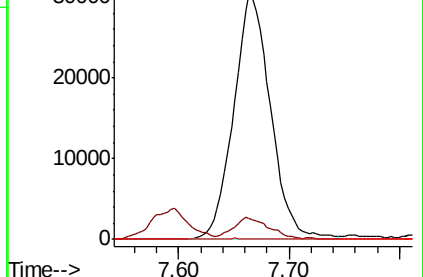
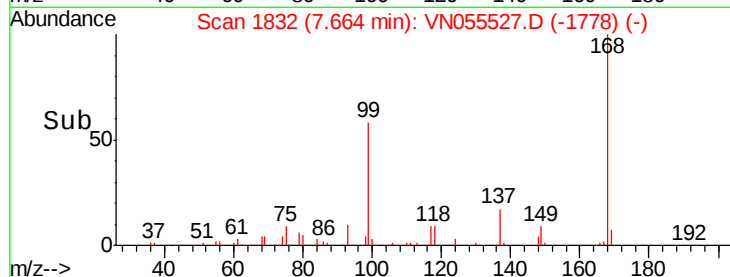
77 0.0 24.6 37.0#



Abundance Ion 74.90 (74.60 to 75.60): VN055527.D (-1778) (-)

Ion 109.90 (109.60 to 110.60): VN055527.D (-1778) (-)

Ion 76.90 (76.60 to 77.60): VN055527.D (-1778) (-)



#38

Carbon Tetrachloride

Concen: 6.757 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN055527.D

Acq: 10 May 2019 4:34

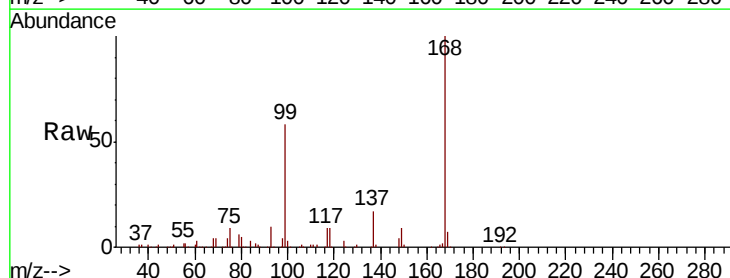
Tgt Ion: 117 Resp: 81198

Ion Ratio Lower Upper

117 100

119 5.1 77.8 116.6#

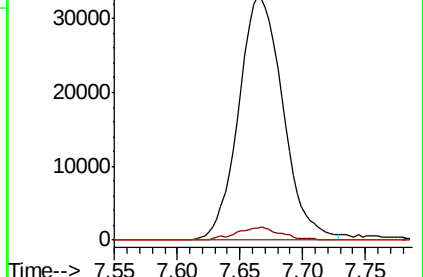
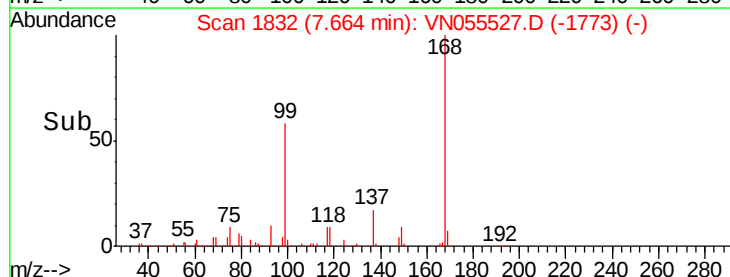
121 0.0 25.2 37.8#

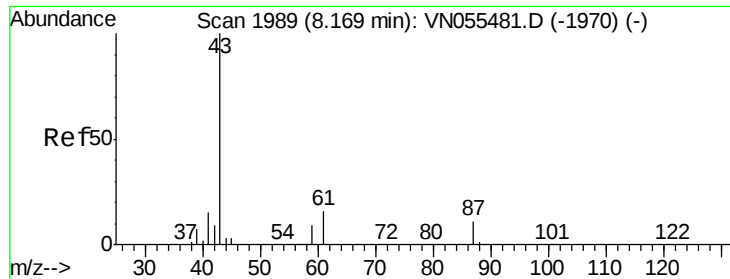


Abundance Ion 116.80 (116.50 to 117.50): VN055527.D (-1773) (-)

Ion 118.80 (118.50 to 119.50): VN055527.D (-1773) (-)

Ion 120.80 (120.50 to 121.50): VN055527.D (-1773) (-)





#43

Isopropyl Acetate

Concen: 0.452 ug/l

RT: 8.27 min Scan# 2020

Delta R.T. 0.10 min

Lab File: VN055527.D

Acq: 10 May 2019 4:34

Instrument :

MSVOA_N

ClientSampleId :

CKMW-07

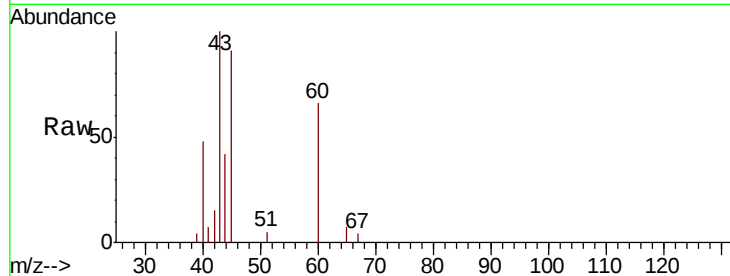
Tot Ion: 43 Resp: 10693

Ion Ratio Lower Upper

43 100

61 0.0 15.1 22.7#

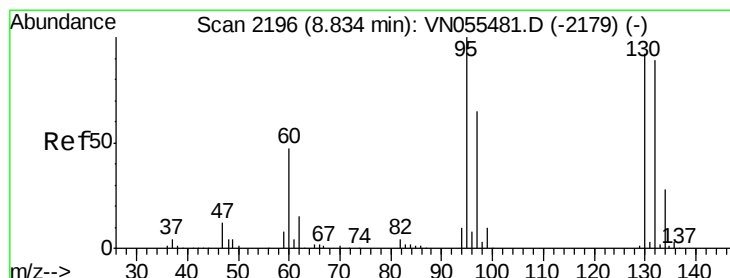
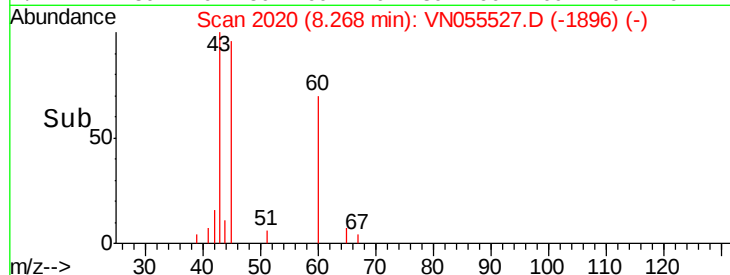
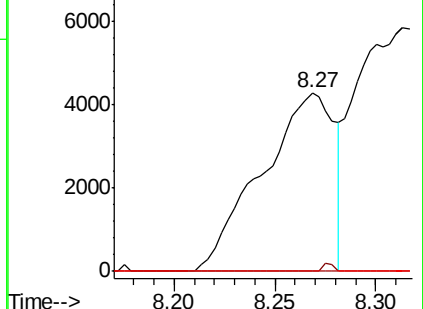
87 0.0 9.0 13.6#



Abundance Ion 43.00 (42.70 to 43.70): VN055527.D (-2103) (-)

Ion 61.00 (60.70 to 61.70): VN055527.D (-2103) (-)

Ion 87.00 (86.70 to 87.70): VN055527.D (-2103) (-)



#44

Trichloroethene

Concen: 0.241 ug/l

RT: 8.83 min Scan# 2194

Delta R.T. -0.01 min

Lab File: VN055527.D

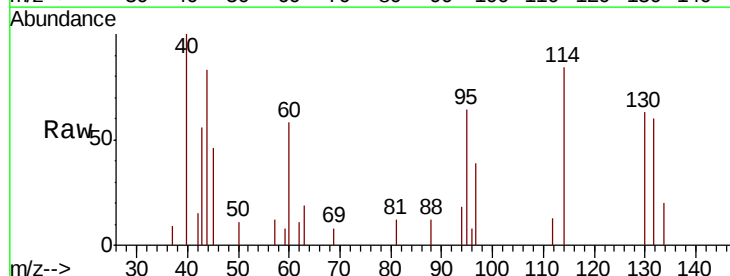
Acq: 10 May 2019 4:34

Tgt Ion: 130 Resp: 2540

Ion Ratio Lower Upper

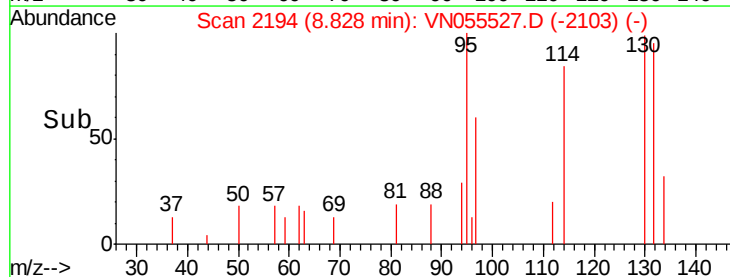
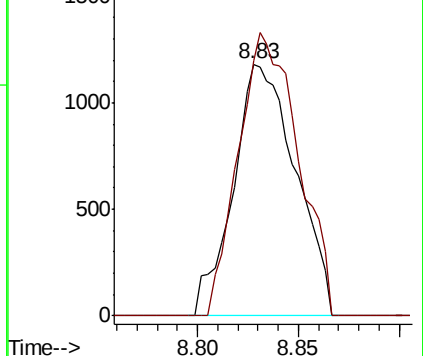
130 100

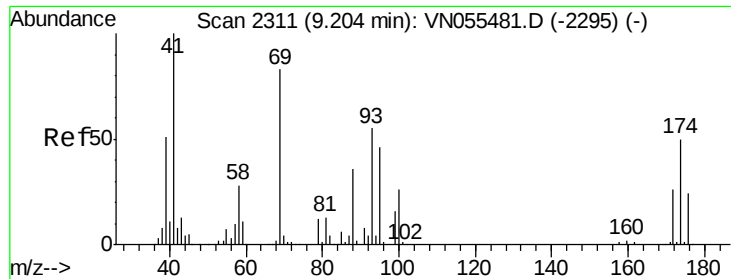
95 101.4 0.0 216.8



Abundance Ion 129.80 (129.50 to 130.50): VN055527.D (-2103) (-)

Ion 94.90 (94.60 to 95.60): VN055527.D (-2103) (-)

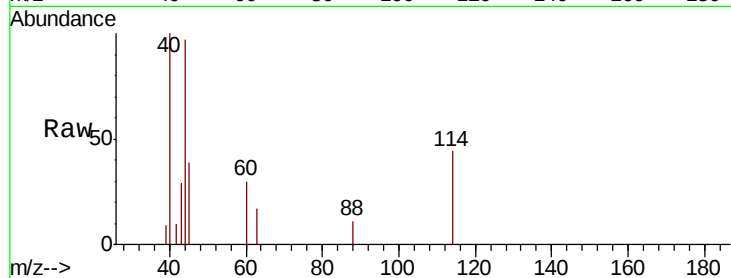




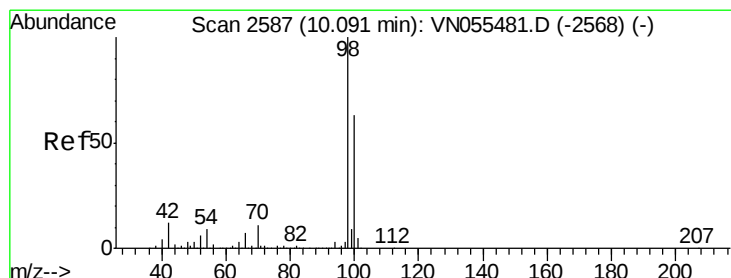
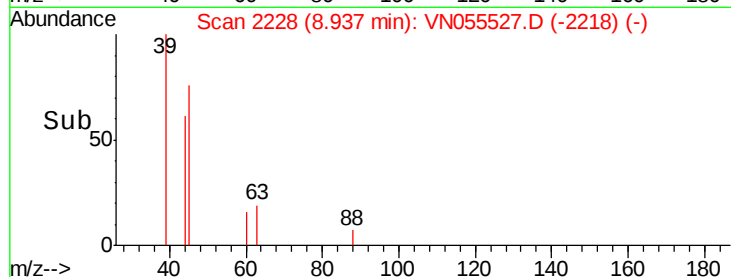
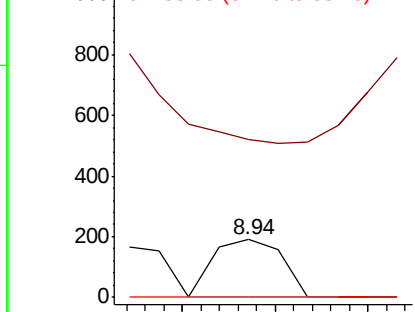
#49
 1,4-Dioxane
 Concen: 0.450 ug/l
 RT: 8.94 min Scan# 2228
 Delta R.T. -0.27 min
 Lab File: VN055527.D
 Acq: 10 May 2019 4:34

Instrument :
 MSVOA_N
 ClientSampleId :
 CKMW-07

Tot Ion: 88 Resp: 100
 Ion Ratio Lower Upper
 88 100
 43 321.0 27.8 41.8#
 58 0.0 61.8 92.6#

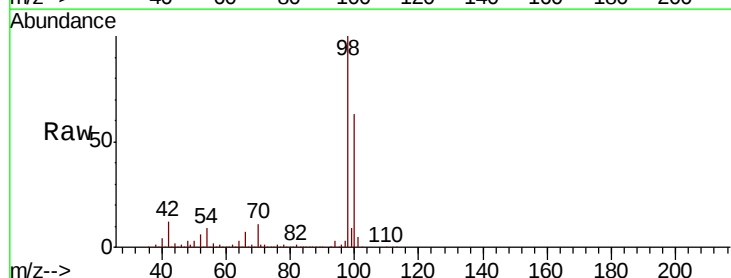


Abundance Ion 88.00 (87.70 to 88.70): VN0
 Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

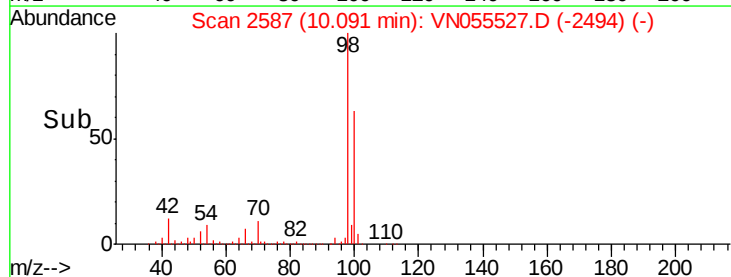
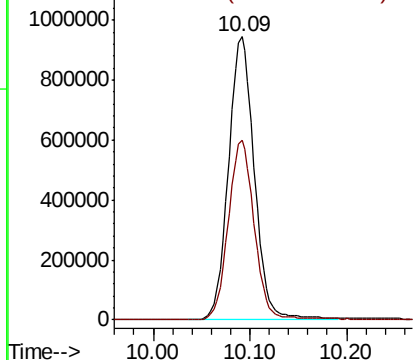


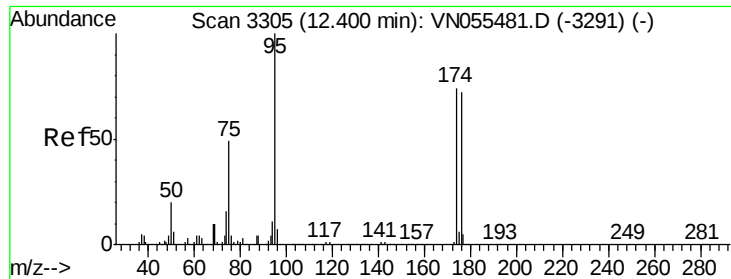
#50
 Toluene-d8
 Concen: 48.349 ug/l
 RT: 10.09 min Scan# 2587
 Delta R.T. -0.00 min
 Lab File: VN055527.D
 Acq: 10 May 2019 4:34

Tgt Ion: 98 Resp: 1760713
 Ion Ratio Lower Upper
 98 100
 100 63.7 50.4 75.6



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





#62

4-Bromofluorobenzene

Concen: 40.724 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN055527.D

Acq: 10 May 2019 4:34

Instrument :

MSVOA_N

ClientSampleId :

CKMW-07

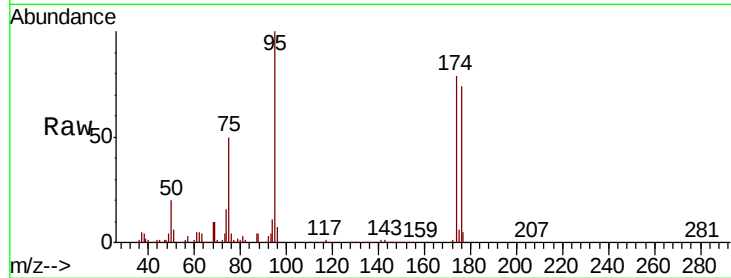
Tot Ion: 95 Resp: 500059

Ion Ratio Lower Upper

95 100

174 78.7 0.0 152.2

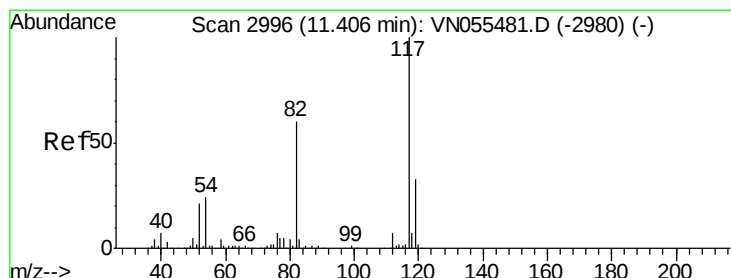
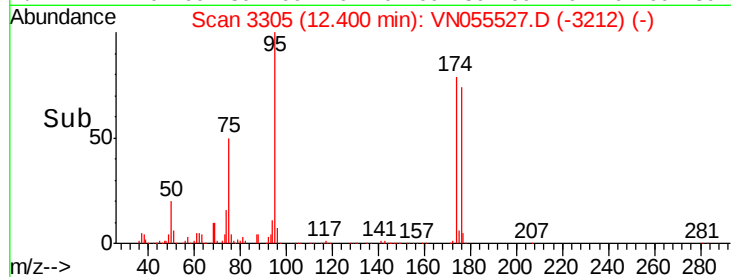
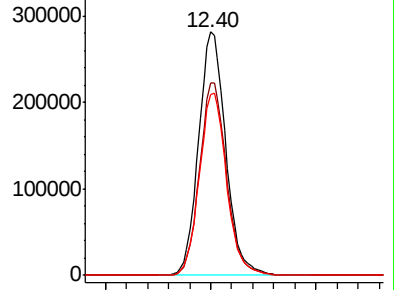
176 75.1 0.0 147.8



Abundance Ion 94.90 (94.60 to 95.60): VN055481.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055481.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055481.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN055527.D

Acq: 10 May 2019 4:34

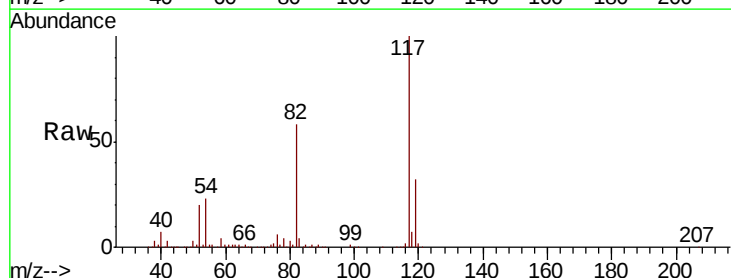
Tgt Ion: 117 Resp: 1209921

Ion Ratio Lower Upper

117 100

82 58.0 48.0 72.0

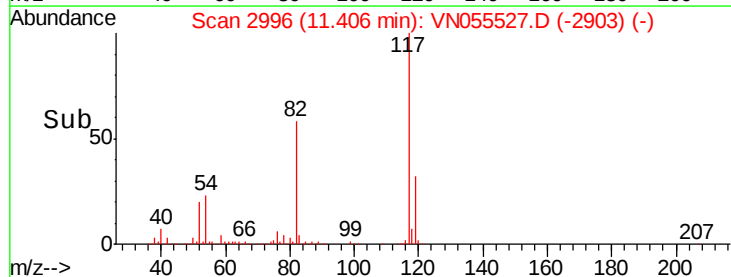
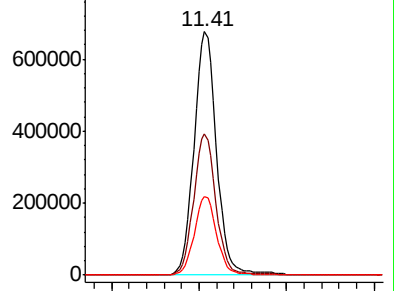
119 32.2 26.0 39.0

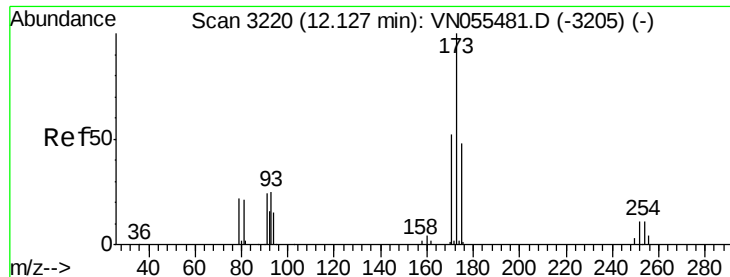


Abundance Ion 116.90 (116.60 to 117.60): VN055481.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN055481.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN055481.D (-2980) (-)





#71

Bromoform

Concen: 0.277 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN055527.D

Acq: 10 May 2019 4:34

Instrument :

MSVOA_N

ClientSampleId :

CKMW-07

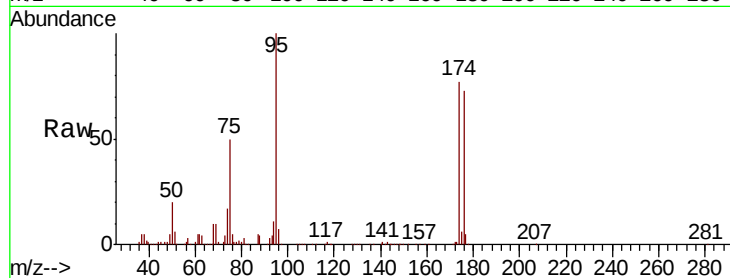
Tot Ion:173 Resp: 1600

Ion Ratio Lower Upper

173 100

175 1557.1 24.1 72.4#

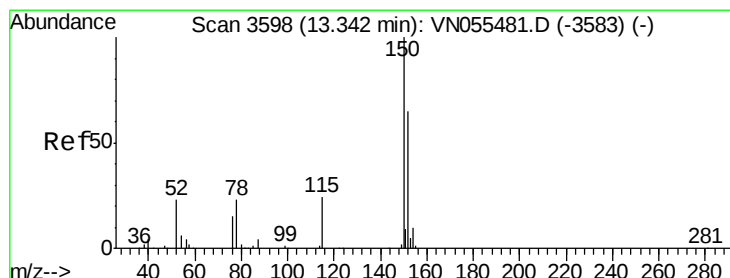
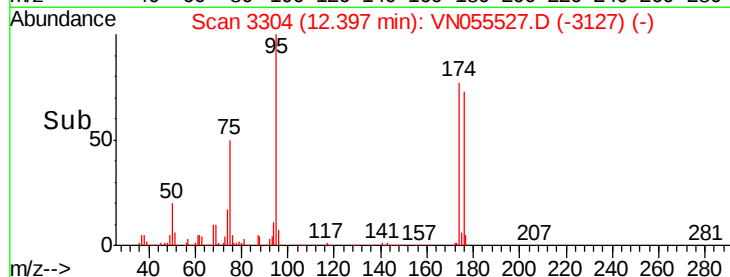
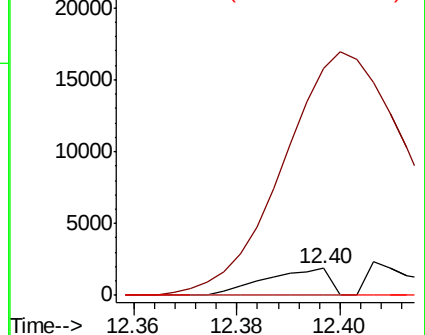
254 0.0 0.1 0.1#



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: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN055527.D

Acq: 10 May 2019 4:34

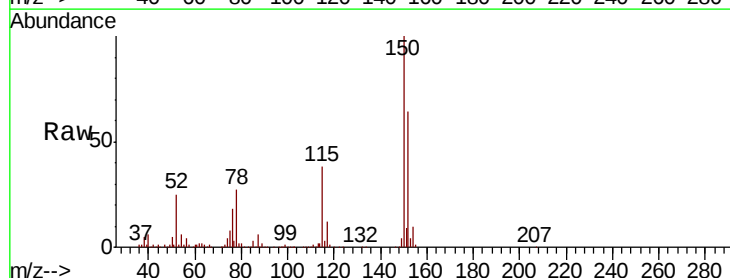
Tgt Ion:152 Resp: 315211

Ion Ratio Lower Upper

152 100

115 60.1 30.1 90.5

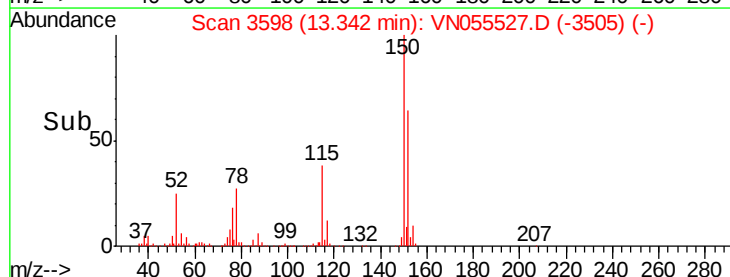
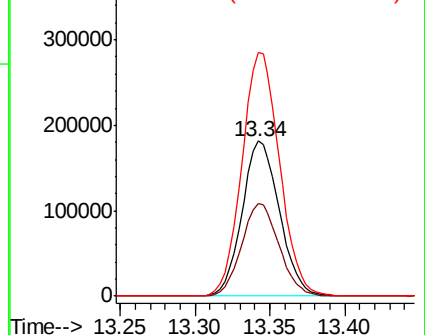
150 158.6 0.0 355.0

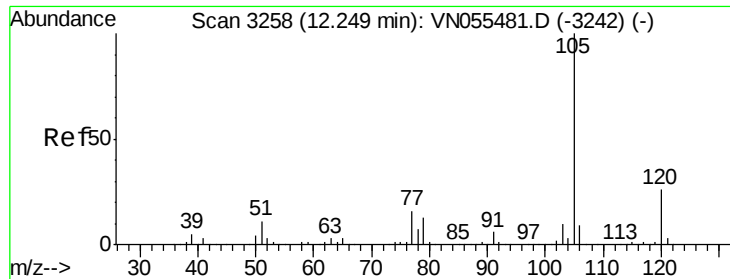


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.26 min Scan# 3260

Delta R.T. 0.01 min

Lab File: VN055527.D

Acq: 10 May 2019 4:34

Instrument :

MSVOA_N

ClientSampleId :

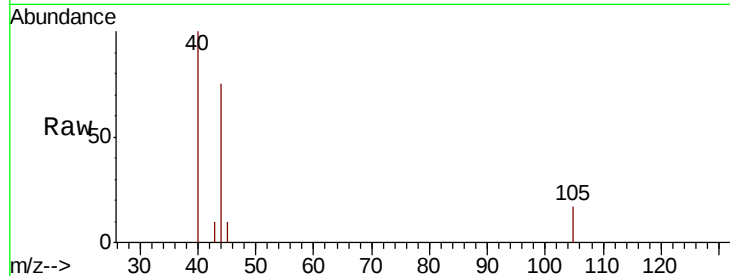
CKMW-07

Tot Ion: 105 Resp: 194

Ion Ratio Lower Upper

105 100

120 0.0 13.0 39.0#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.26

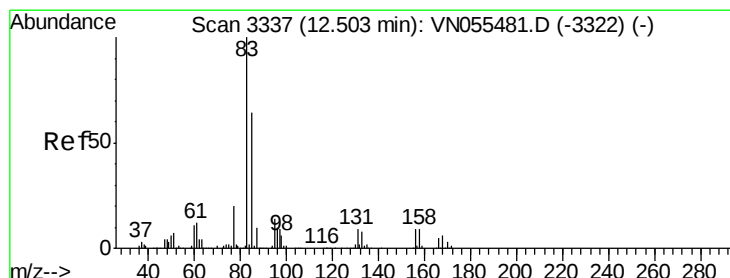
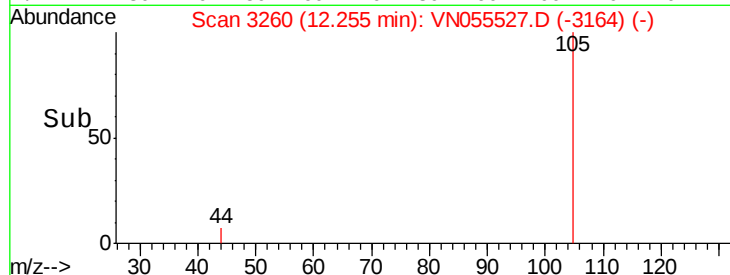
300

200

100

0

Time-->



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3309

Delta R.T. -0.09 min

Lab File: VN055527.D

Acq: 10 May 2019 4:34

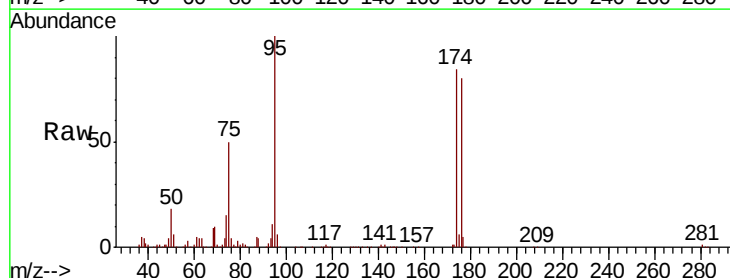
Tgt Ion: 83 Resp: 111

Ion Ratio Lower Upper

83 100

131 204.5 4.5 13.5#

85 0.0 32.0 96.0#



Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V

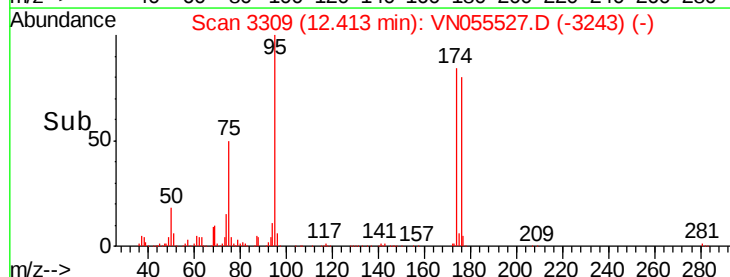
300

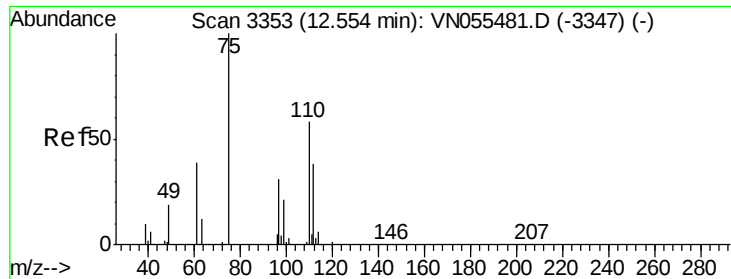
200

100

0

Time-->

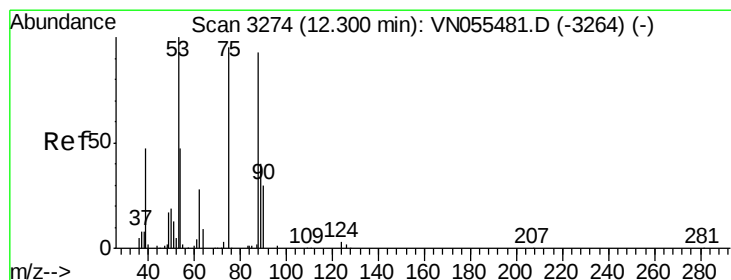
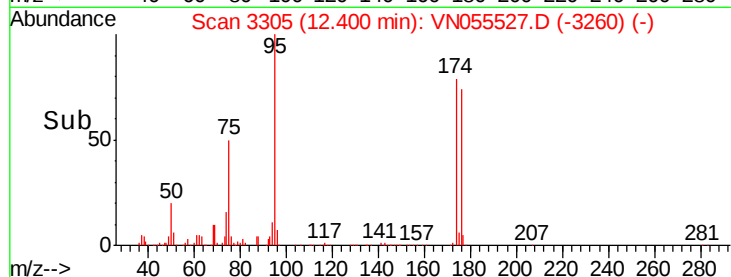
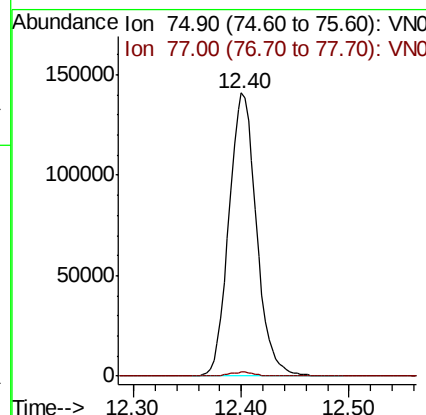
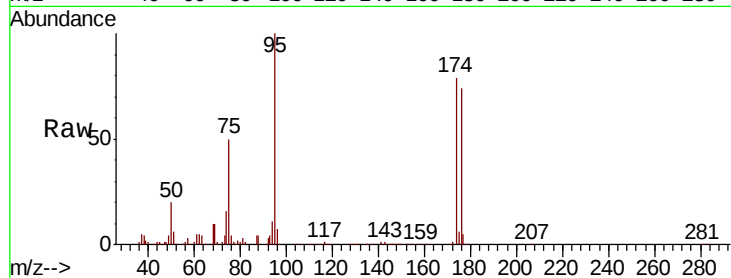




#76
 1,2,3-Trichloropropane
 Concen: 29.260 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN055527.D
 Acq: 10 May 2019 4:34

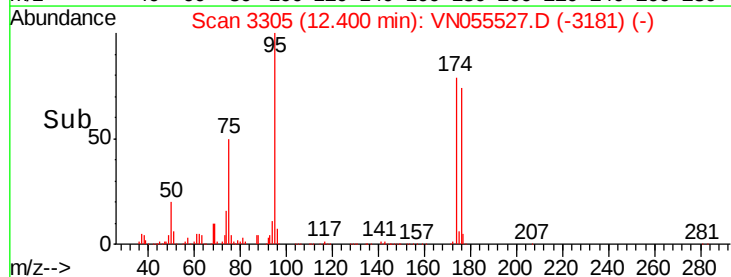
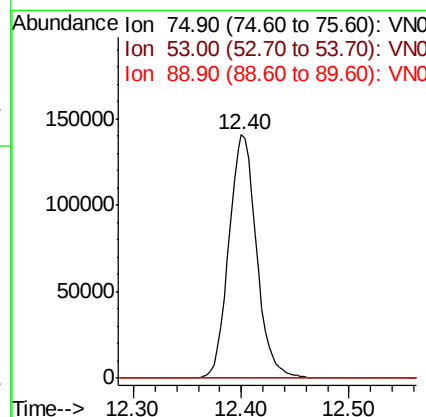
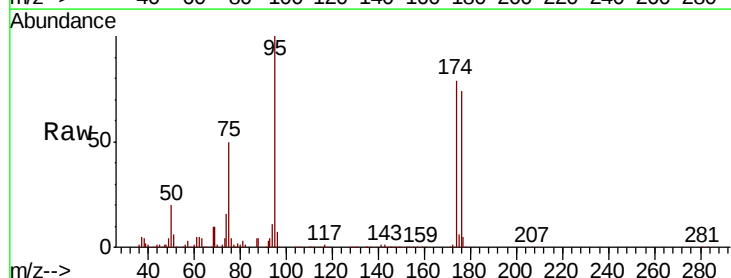
Instrument :
 MSVOA_N
 ClientSampleId :
 CKMW-07

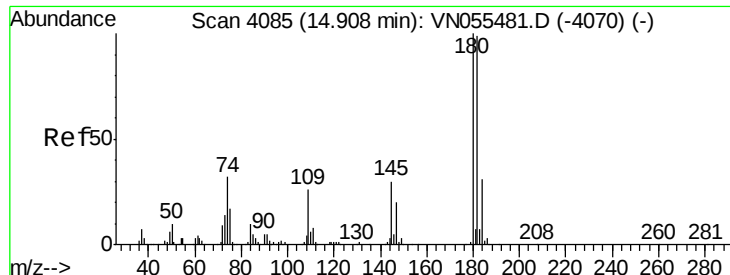
Tot Ion: 75 Resp: 251083
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 107.965 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN055527.D
 Acq: 10 May 2019 4:34

Tgt Ion: 75 Resp: 251083
 Ion Ratio Lower Upper
 75 100
 53 0.0 86.5 129.7#
 89 0.0 35.7 53.5#

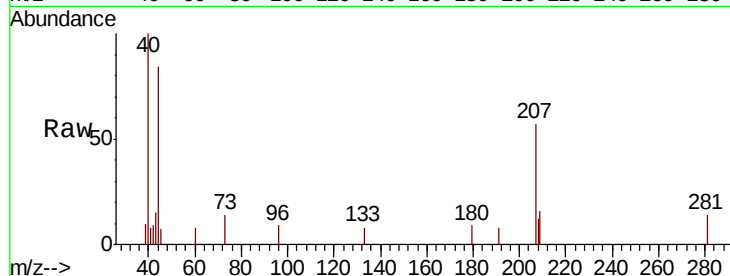




#93
 1,2,4-Trichlorobenzene
 Concen: 3.220 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055527.D
 Acq: 10 May 2019 4:34

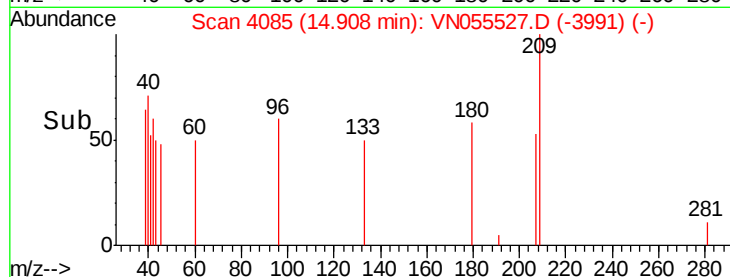
Instrument :
 MSVOA_N
 ClientSampled :
 CKMW-07

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	48.7	146.1#
145	0.0	15.3	45.9#

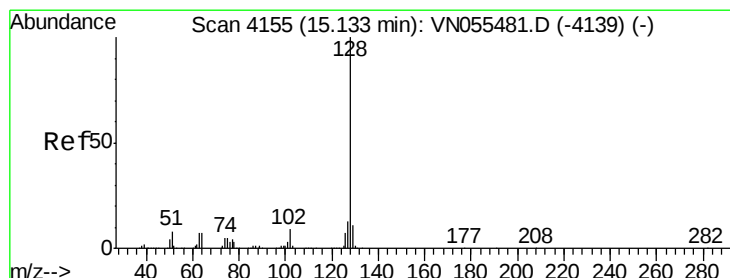


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

14.91

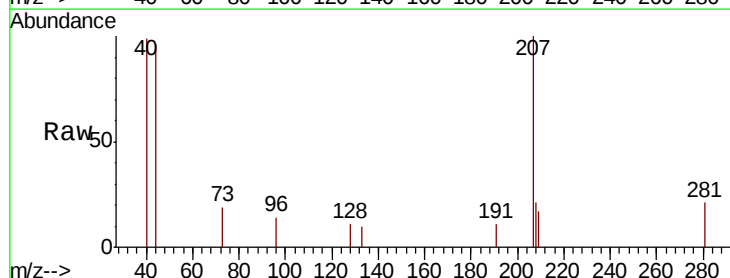


Time-->



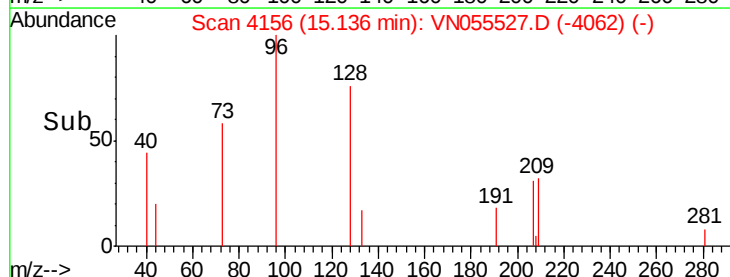
#95
 Naphthalene
 Concen: 2.949 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.00 min
 Lab File: VN055527.D
 Acq: 10 May 2019 4:34

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	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

15.14



Time-->