

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050919\
 Data File : VN055523.D
 Acq On : 10 May 2019 2:54
 Operator : JC/SP
 Sample : K2758-15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CKMW-20

Quant Time: May 10 04:21:51 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

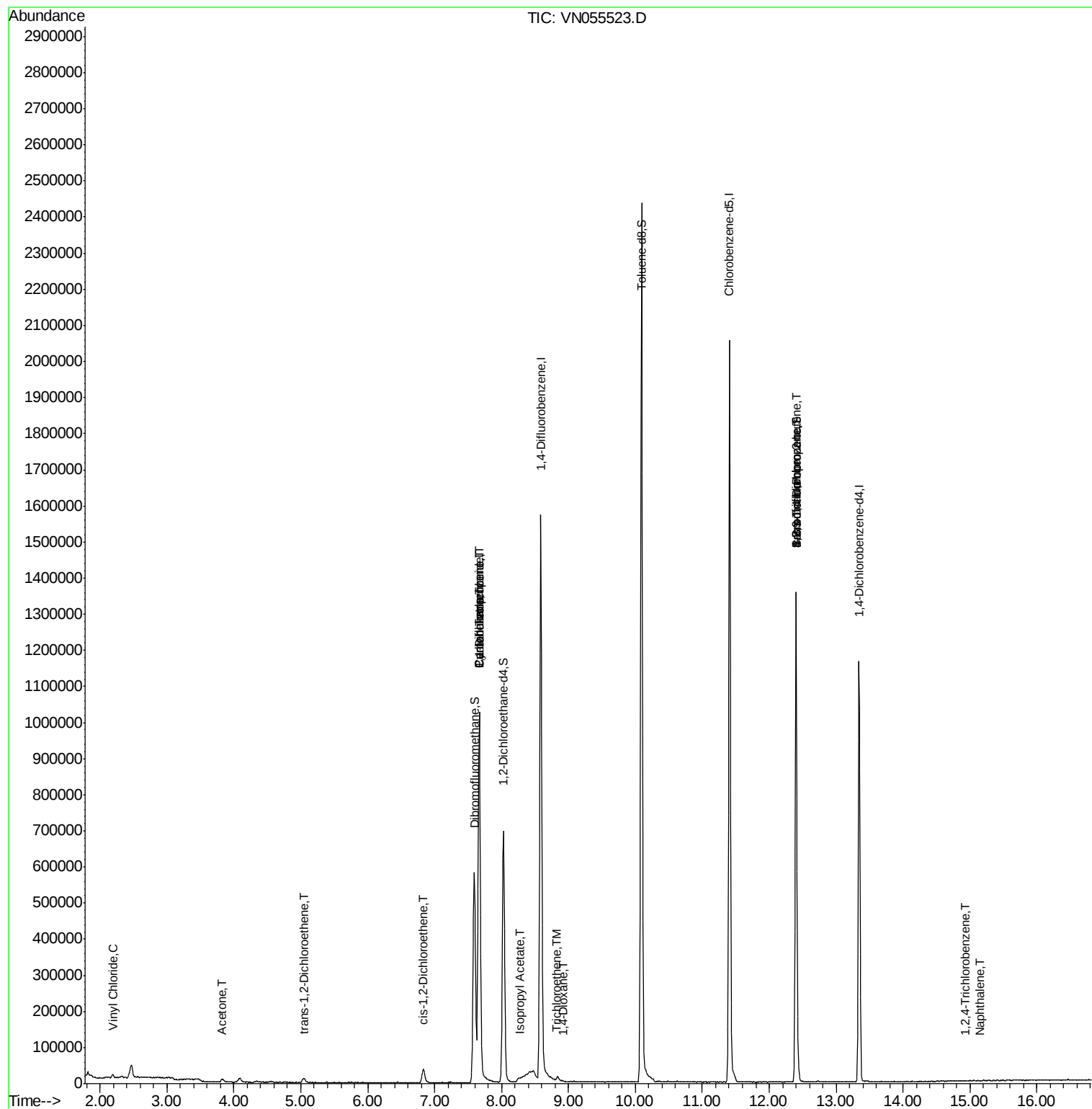
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	880716	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1428910	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1205969	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	325287	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	591368	44.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.20%	
35) Dibromofluoromethane	7.59	113	457834	49.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.34%	
50) Toluene-d8	10.09	98	1753991	48.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.66%	
62) 4-Bromofluorobenzene	12.40	95	503699	41.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.18%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.19	62	6665	0.485	ug/l	91
16) Acetone	3.82	43	4982	0.811	ug/l	92
18) Methyl Acetate	4.34	43	7563	Below Cal	#	77
21) trans-1,2-Dichloroethene	5.05	96	4604	0.441	ug/l	85
27) cis-1,2-Dichloroethene	6.83	96	23099	1.915	ug/l	93
31) Cyclohexane	7.66	56	17767	0.830	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	69531	4.939	ug/l #	50
38) Carbon Tetrachloride	7.66	117	80773	6.814	ug/l #	16
43) Isopropyl Acetate	8.26	43	7802	0.334	ug/l #	63
44) Trichloroethene	8.83	130	3568	0.343	ug/l	92
49) 1,4-Dioxane	8.93	88	61	0.278	ug/l #	1
71) Bromoform	12.40	173	2810	0.488	ug/l #	1
73) Isopropylbenzene	12.41	105	656	Below Cal	#	49
75) 1,1,2,2-Tetrachloroethane	12.40	83	116	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	250216	28.256	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	250216	104.260	ug/l #	7
93) 1,2,4-Trichlorobenzene	14.91	180	152	3.235	ug/l #	46
95) Naphthalene	15.15	128	479	2.970	ug/l #	70

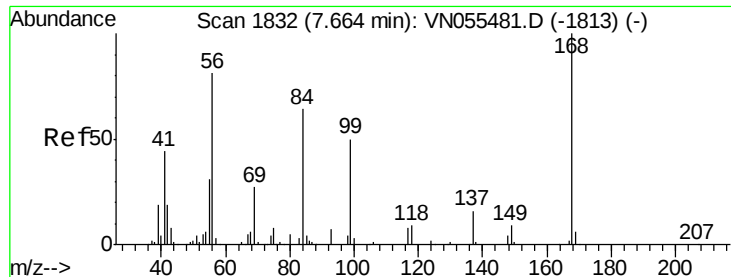
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu May 09 04:17:44 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055523.D

Acq: 10 May 2019 2:54

Instrument :

MSVOA_N

ClientSampleId :

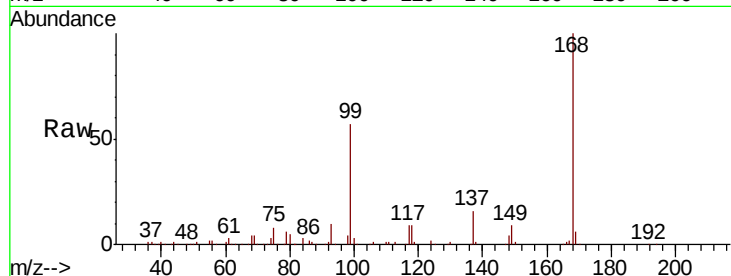
CKMW-20

Tot Ion:168 Resp: 880716

Ion Ratio Lower Upper

168 100

99 57.3 47.0 70.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

400000

300000

200000

100000

0

Time-->

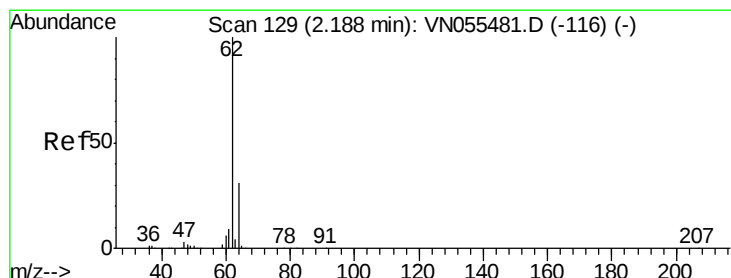
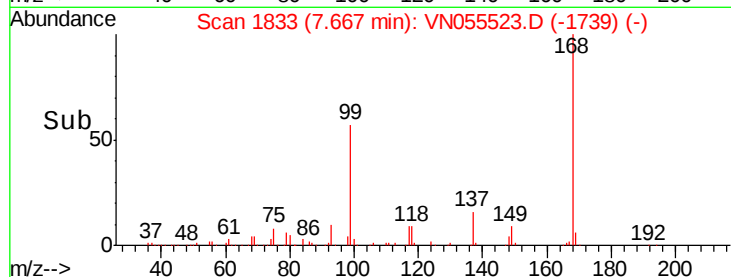
7.50

7.60

7.70

7.80

7.90



#4

Vinyl Chloride

Concen: 0.485 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN055523.D

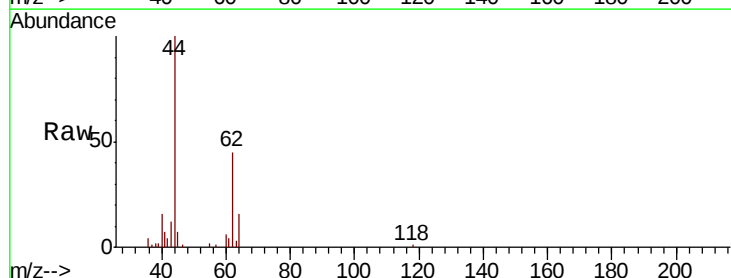
Acq: 10 May 2019 2:54

Tgt Ion: 62 Resp: 6665

Ion Ratio Lower Upper

62 100

64 36.2 25.0 37.6



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

2.19

5000

4000

3000

2000

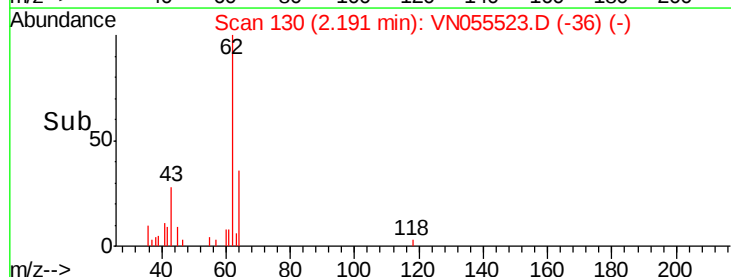
1000

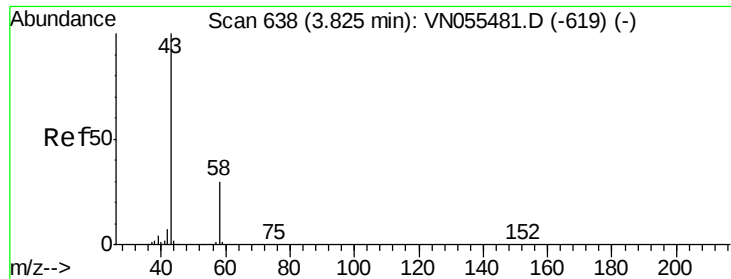
0

Time-->

2.15

2.20





#16

Acetone

Concen: 0.811 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.01 min

Lab File: VN055523.D

Acq: 10 May 2019 2:54

Instrument :

MSVOA_N

ClientSampled :

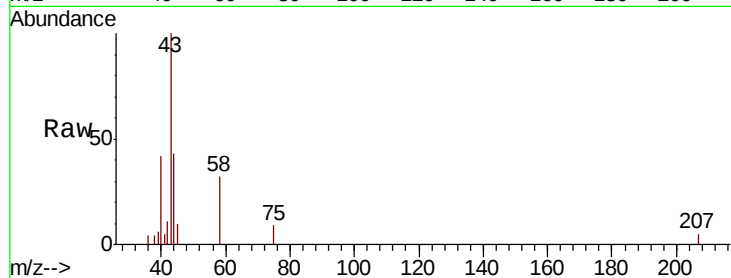
CKMW-20

Tot Ion: 43 Resp: 4982

Ion Ratio Lower Upper

43 100

58 34.6 24.2 36.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

4000

3000

2000

1000

0

Time-->

3.78

3.80

3.82

3.84

3.86

3.88

3.90

3.92

3.94

3.96

3.98

4.00

4.02

4.04

4.06

4.08

4.10

4.12

4.14

4.16

4.18

4.20

4.22

4.24

4.26

4.28

4.30

4.32

4.34

4.36

4.38

4.40

4.42

4.44

4.46

4.48

4.50

4.52

4.54

4.56

4.58

4.60

4.62

4.64

4.66

4.68

4.70

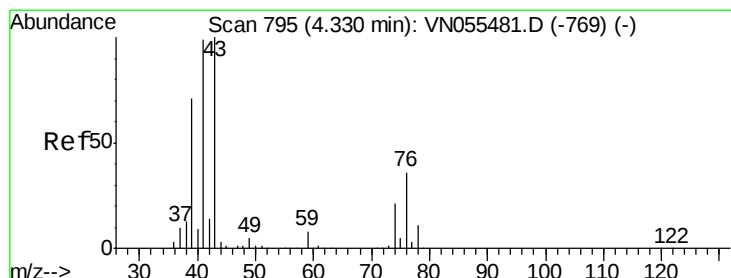
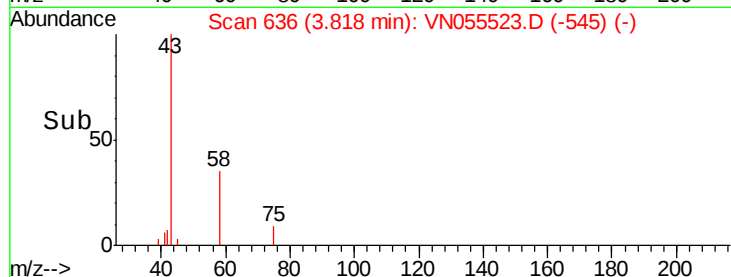
4.72

4.74

4.76

4.78

4.80



#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 799

Delta R.T. 0.01 min

Lab File: VN055523.D

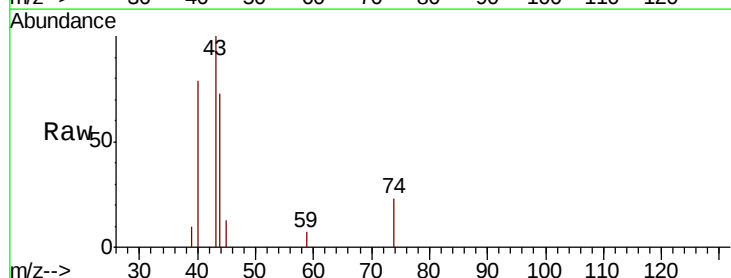
Acq: 10 May 2019 2:54

Tgt Ion: 43 Resp: 7563

Ion Ratio Lower Upper

43 100

74 9.9 16.3 24.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.34

2500

2000

1500

1000

500

0

Time-->

4.25

4.30

4.35

4.40

4.45

4.50

4.55

4.60

4.65

4.70

4.75

4.80

4.85

4.90

4.95

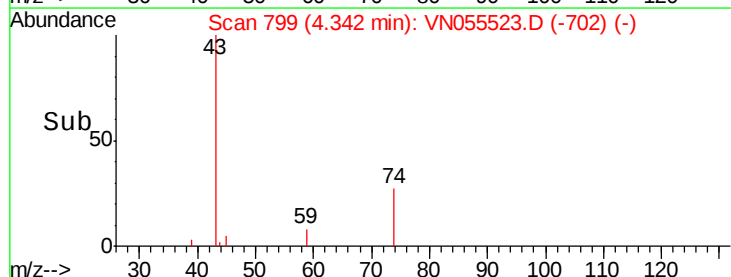
5.00

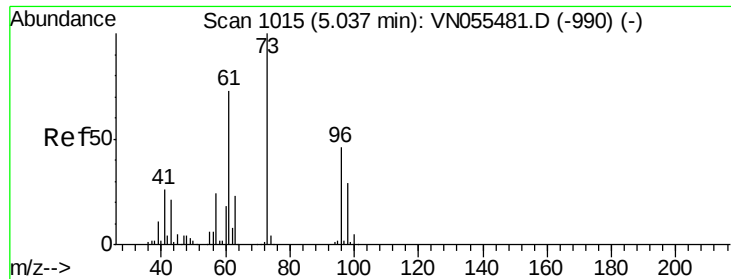
5.05

5.10

5.15

5.20

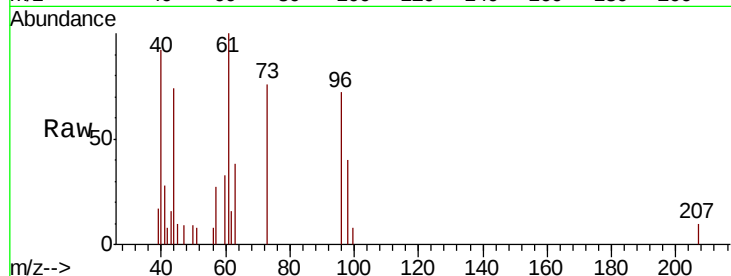




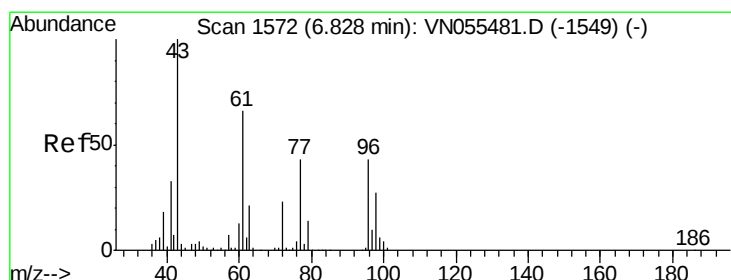
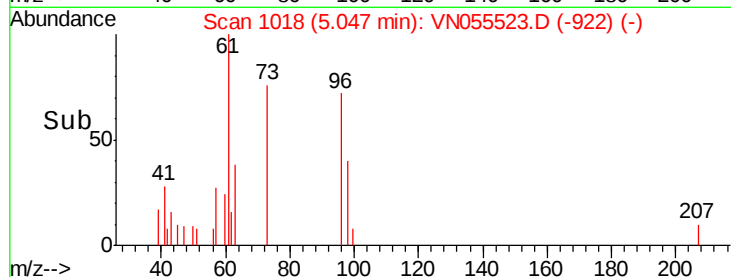
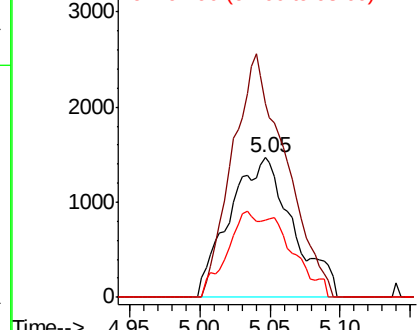
#21
trans-1,2-Dichloroethene
Concen: 0.441 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.01 min
Lab File: VN055523.D
Acq: 10 May 2019 2:54

Instrument :
MSVOA_N
ClientSampleId :
CKMW-20

Tot Ion: 96 Resp: 4604
Ion Ratio Lower Upper
96 100
61 138.7 127.4 191.0
98 55.0 51.6 77.4

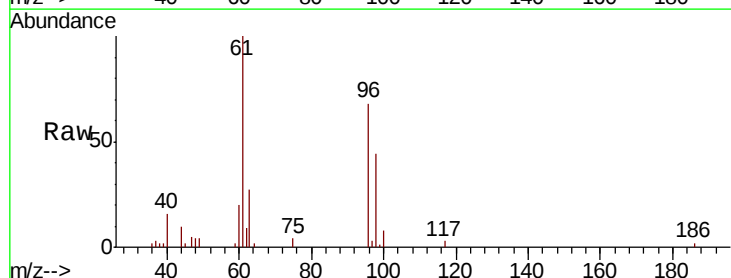


Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0

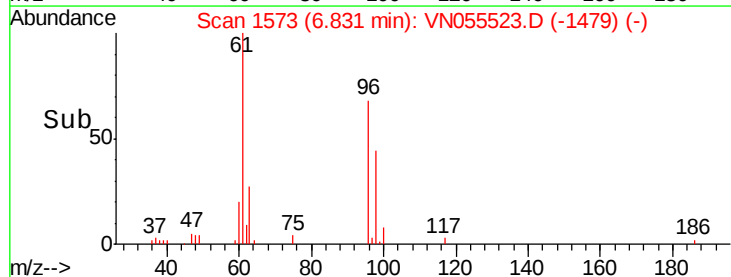
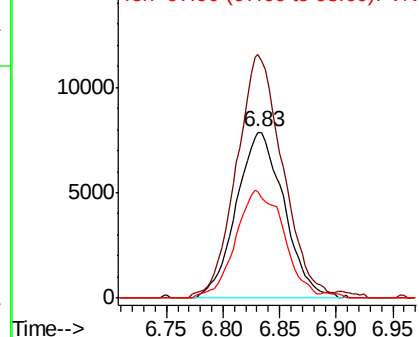


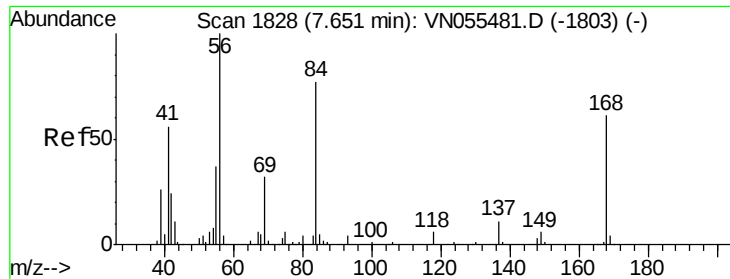
#27
cis-1,2-Dichloroethene
Concen: 1.915 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.00 min
Lab File: VN055523.D
Acq: 10 May 2019 2:54

Tgt Ion: 96 Resp: 23099
Ion Ratio Lower Upper
96 100
61 142.7 0.0 310.8
98 65.5 0.0 129.4



Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0

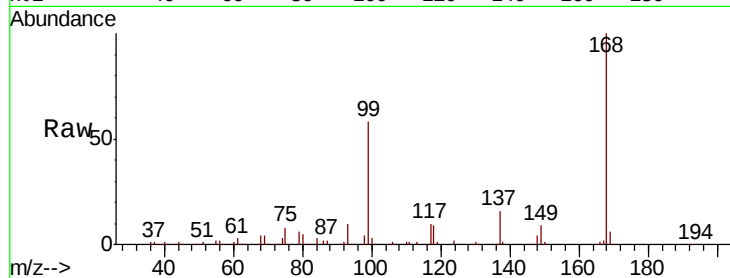




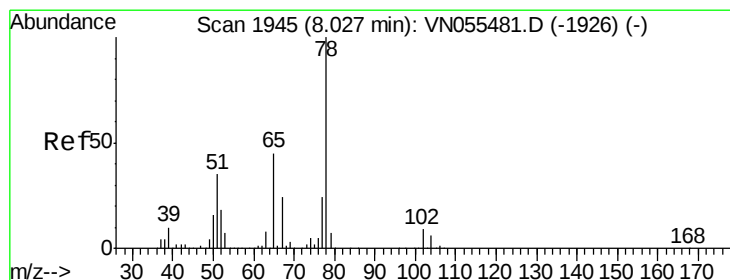
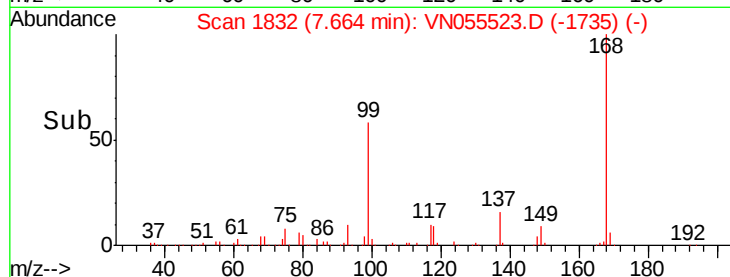
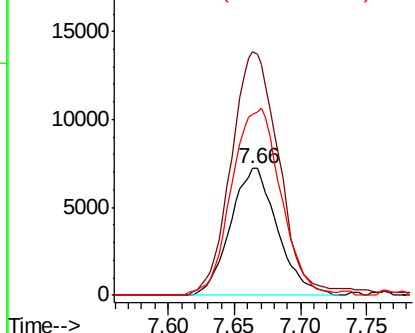
#31
Cyclohexane
Concen: 0.830 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN055523.D
Acq: 10 May 2019 2:54

Instrument :
MSVOA_N
ClientSampleId :
CKMW-20

Tot Ion: 56 Resp: 17767
Ion Ratio Lower Upper
56 100
69 192.0 26.0 39.0#
84 140.5 61.9 92.9#

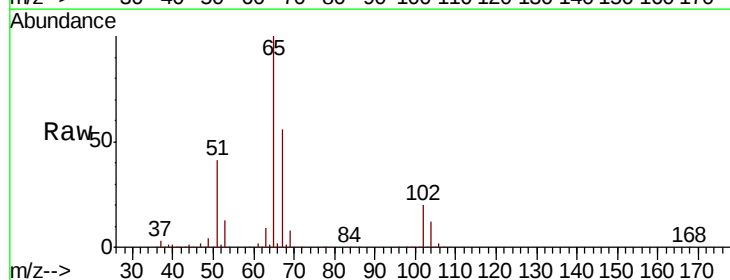


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

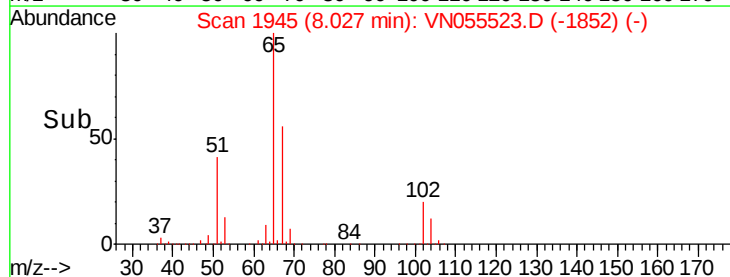
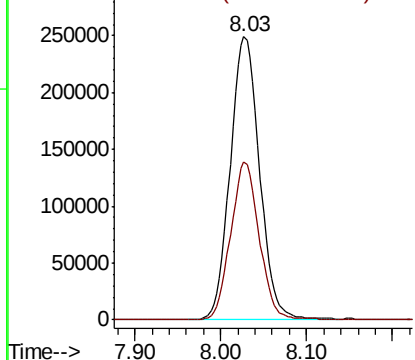


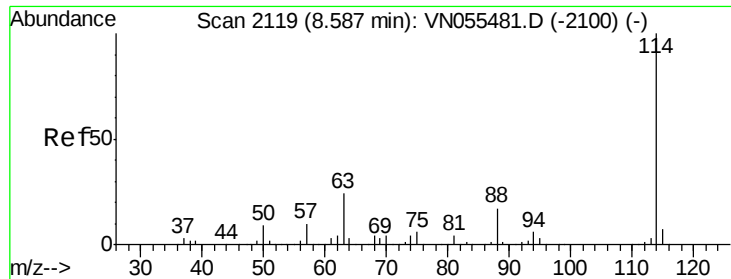
#33
1,2-Dichloroethane-d4
Concen: 44.596 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN055523.D
Acq: 10 May 2019 2:54

Tgt Ion: 65 Resp: 591368
Ion Ratio Lower Upper
65 100
67 54.2 0.0 109.6



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

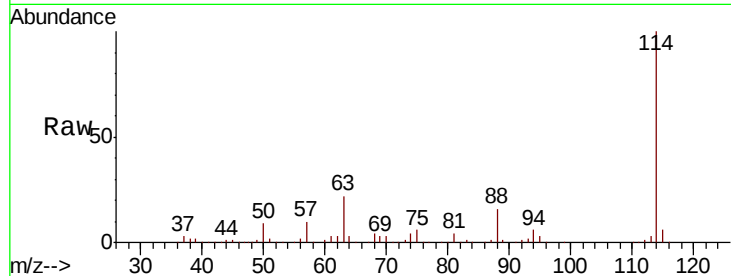




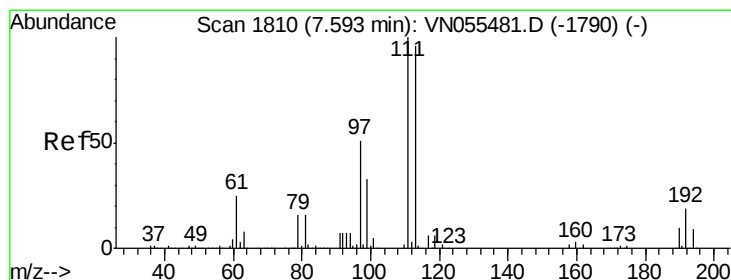
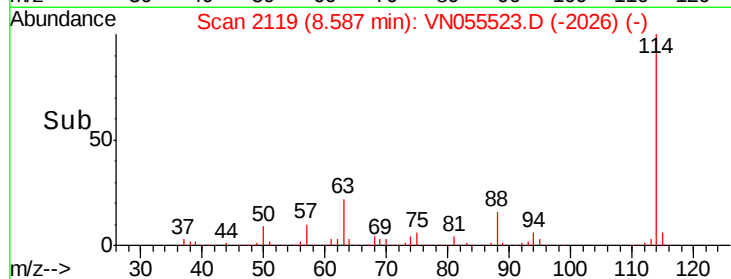
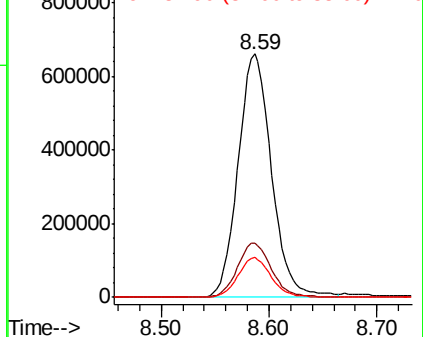
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. -0.00 min
Lab File: VN055523.D
Acq: 10 May 2019 2:54

Instrument :
MSVOA_N
ClientSampleId :
CKMW-20

Tot Ion:114 Resp: 1428910
Ion Ratio Lower Upper
114 100
63 22.2 0.0 47.4
88 16.2 0.0 34.0

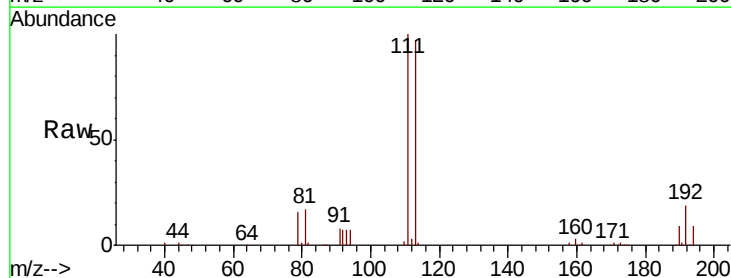


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

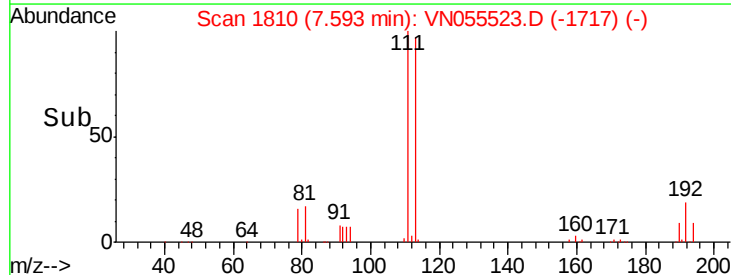
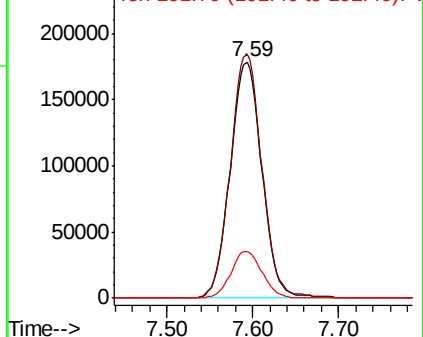


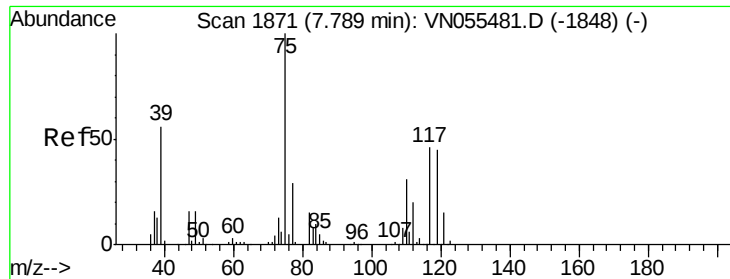
#35
Dibromofluoromethane
Concen: 49.670 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. -0.00 min
Lab File: VN055523.D
Acq: 10 May 2019 2:54

Tgt Ion:113 Resp: 457834
Ion Ratio Lower Upper
113 100
111 103.2 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

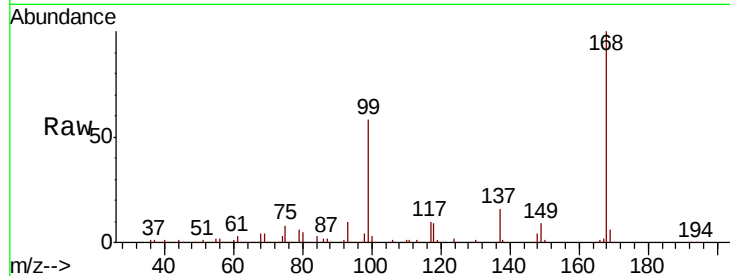




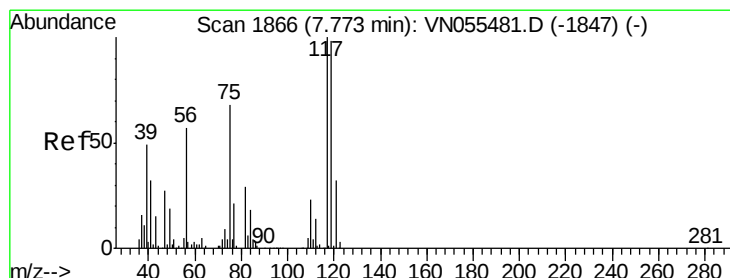
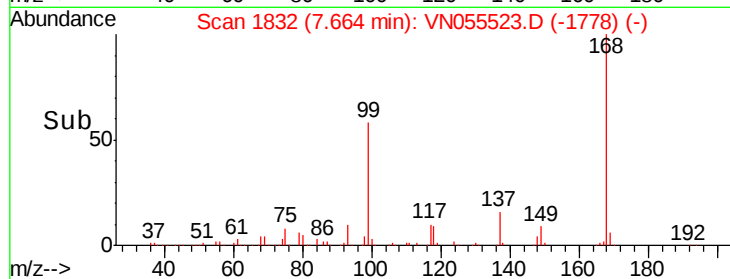
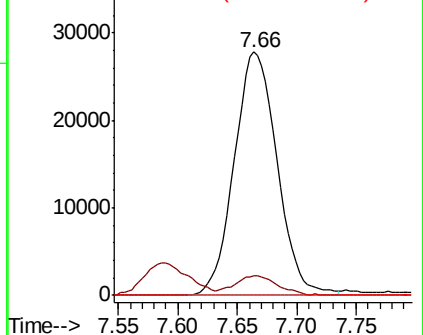
#36
 1,1-Dichloropropene
 Concen: 4.939 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN055523.D
 Acq: 10 May 2019 2:54

Instrument :
 MSVOA_N
 ClientSampled :
 CKMW-20

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.0	16.1	48.3#
77	0.0	24.6	37.0#

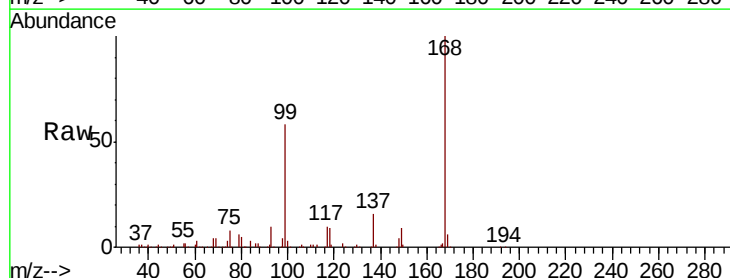


Abundance Ion 74.90 (74.60 to 75.60): VN055481.D (-1848) (-)
 Ion 109.90 (109.60 to 110.60): VN055481.D (-1848) (-)
 Ion 76.90 (76.60 to 77.60): VN055481.D (-1848) (-)

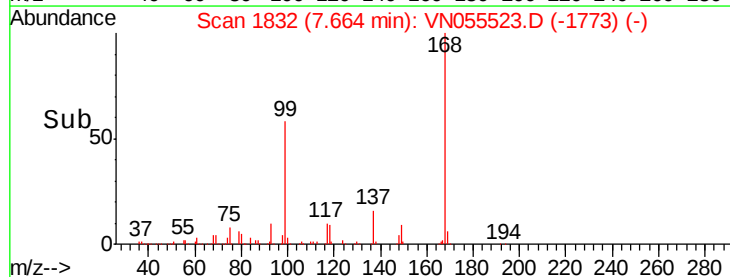
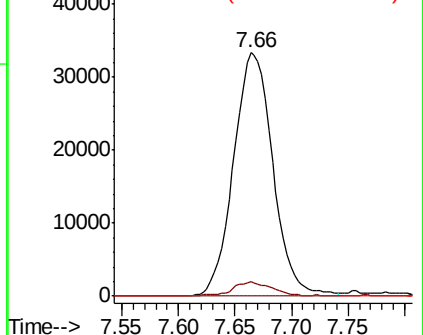


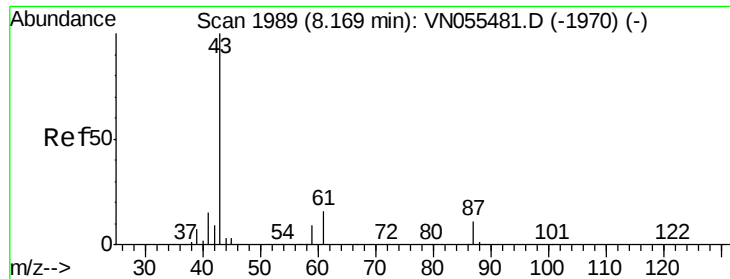
#38
 Carbon Tetrachloride
 Concen: 6.814 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN055523.D
 Acq: 10 May 2019 2:54

Tgt 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): VN055481.D (-1847) (-)
 Ion 118.80 (118.50 to 119.50): VN055481.D (-1847) (-)
 Ion 120.80 (120.50 to 121.50): VN055481.D (-1847) (-)





#43

Isopropyl Acetate

Concen: 0.334 ug/l

RT: 8.26 min Scan# 2017

Delta R.T. 0.09 min

Lab File: VN055523.D

Acq: 10 May 2019 2:54

Instrument :

MSVOA_N

ClientSampleID :

CKMW-20

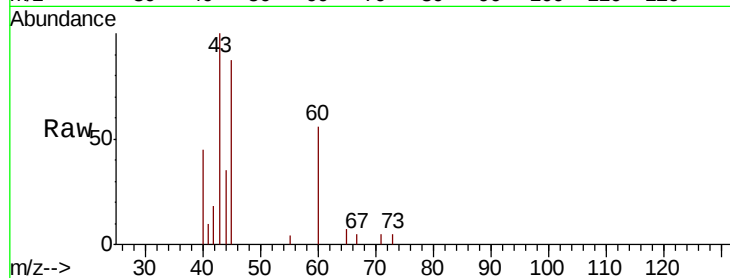
Tot Ion: 43 Resp: 7802

Ion Ratio Lower Upper

43 100

61 0.0 15.1 22.7#

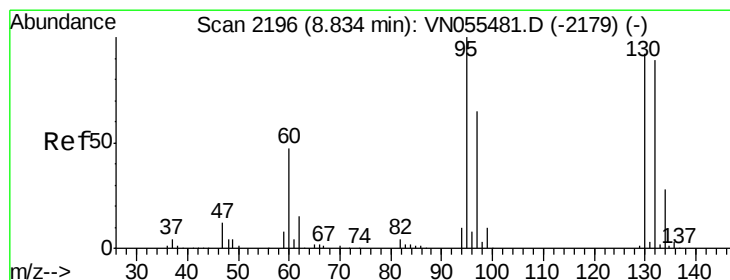
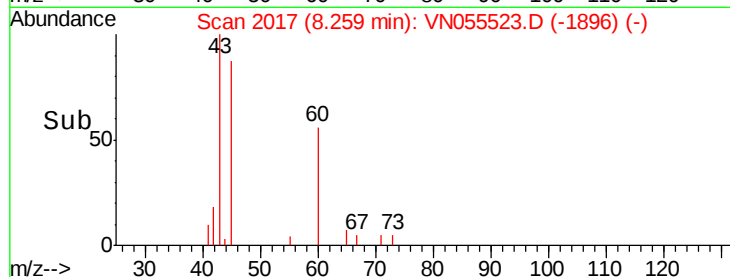
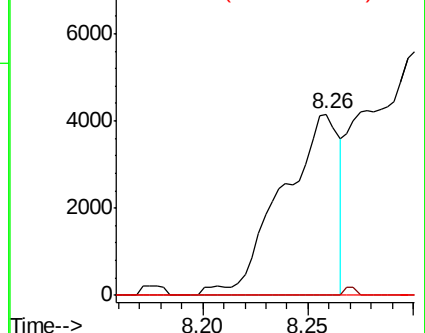
87 0.0 9.0 13.6#



Abundance Ion 43.00 (42.70 to 43.70): VN055523.D (-2017) (-)

Ion 61.00 (60.70 to 61.70): VN055523.D (-2017) (-)

Ion 87.00 (86.70 to 87.70): VN055523.D (-2017) (-)



#44

Trichloroethene

Concen: 0.343 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN055523.D

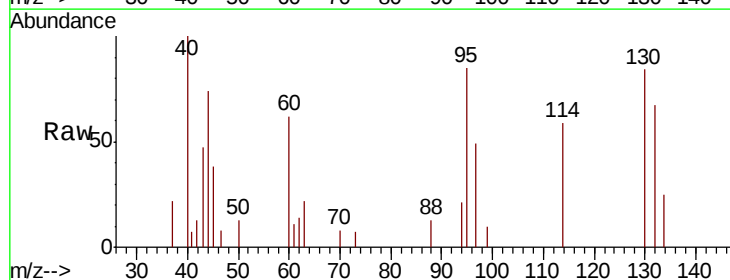
Acq: 10 May 2019 2:54

Tgt Ion: 130 Resp: 3568

Ion Ratio Lower Upper

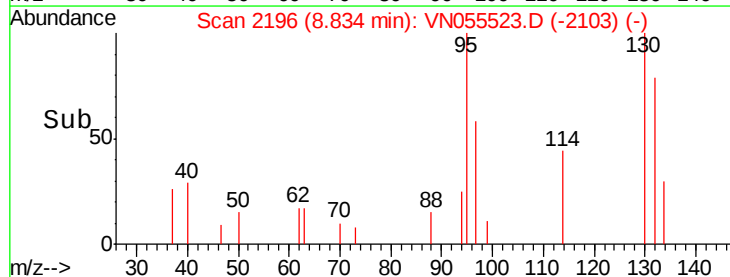
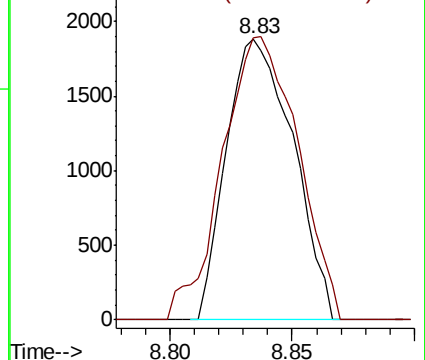
130 100

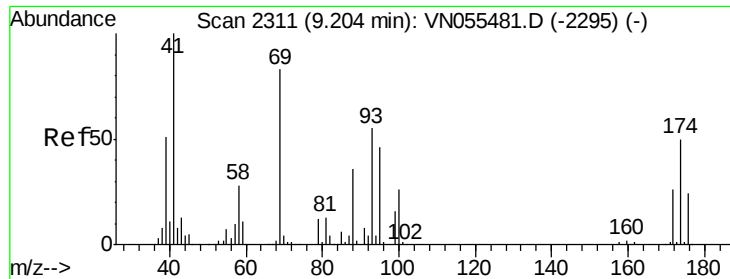
95 100.4 0.0 216.8



Abundance Ion 129.80 (129.50 to 130.50): VN055523.D (-2196) (-)

Ion 94.90 (94.60 to 95.60): VN055523.D (-2196) (-)

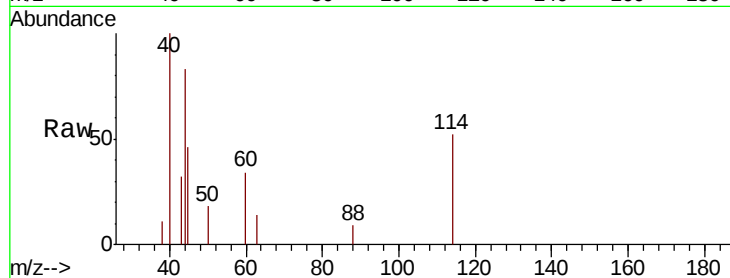




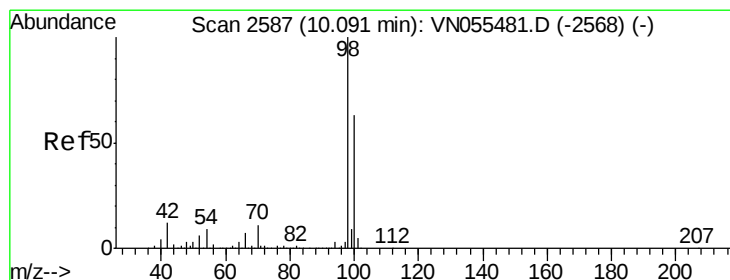
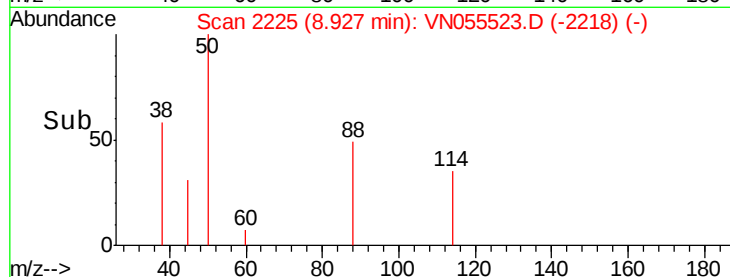
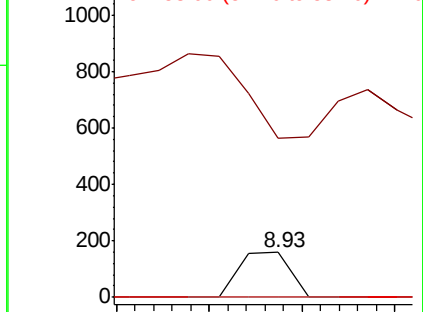
#49
1,4-Dioxane
Concen: 0.278 ug/l
RT: 8.93 min Scan# 2225
Delta R.T. -0.28 min
Lab File: VN055523.D
Acq: 10 May 2019 2:54

Instrument :
MSVOA_N
ClientSampleId :
CKMW-20

Tot Ion: 88 Resp: 61
Ion Ratio Lower Upper
88 100
43 136.1 27.8 41.8#
58 0.0 61.8 92.6#

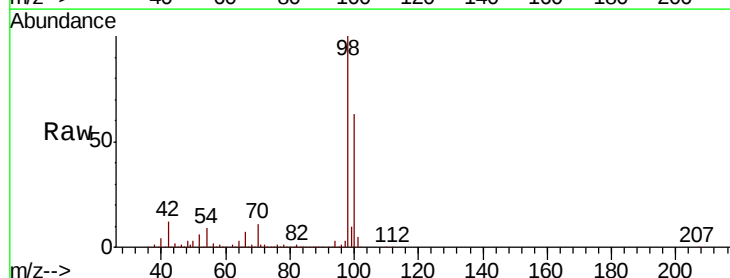


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

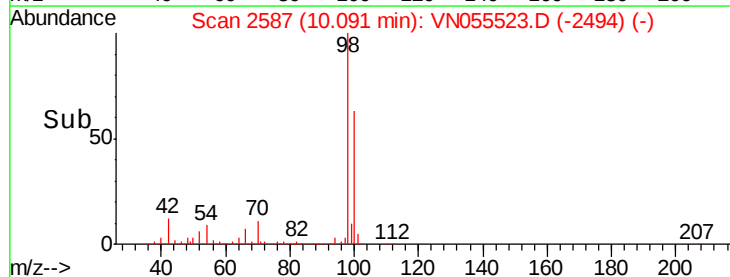
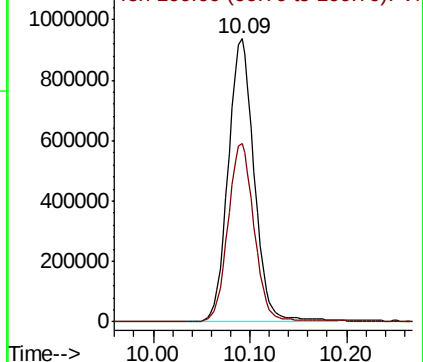


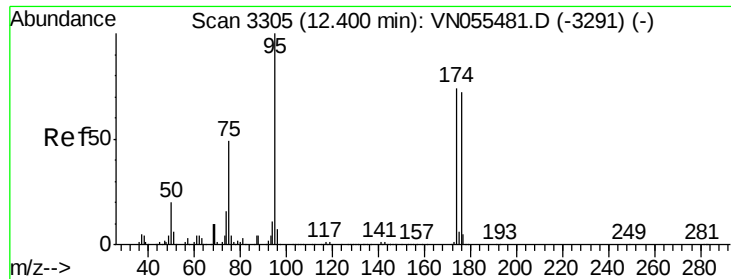
#50
Toluene-d8
Concen: 48.830 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN055523.D
Acq: 10 May 2019 2:54

Tgt Ion: 98 Resp: 1753991
Ion Ratio Lower Upper
98 100
100 63.2 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: 41.588 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN055523.D

Acq: 10 May 2019 2:54

Instrument :

MSVOA_N

ClientSampleId :

CKMW-20

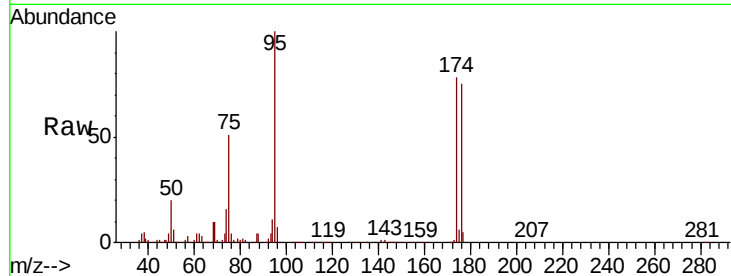
Tot Ion: 95 Resp: 503699

Ion Ratio Lower Upper

95 100

174 78.4 0.0 152.2

176 75.2 0.0 147.8

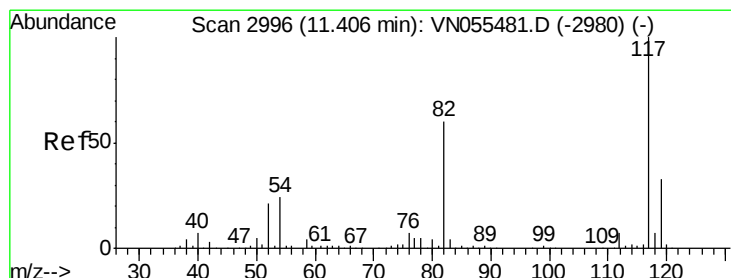
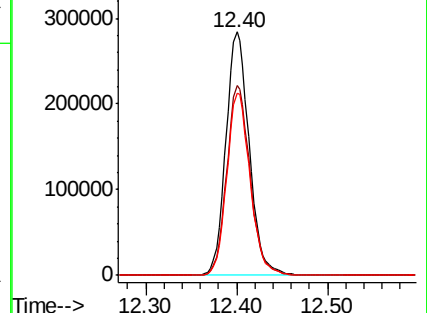
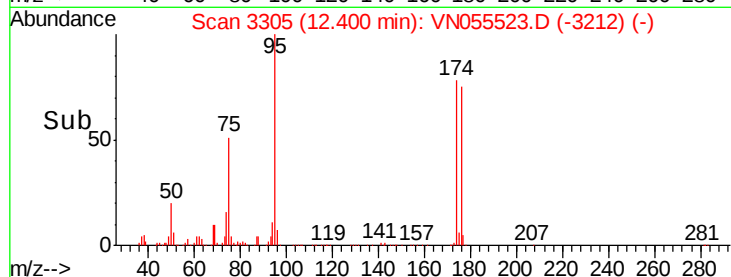


Abundance Ion 94.90 (94.60 to 95.60): VN055481.D (-3291) (-)

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

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

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN055523.D

Acq: 10 May 2019 2:54

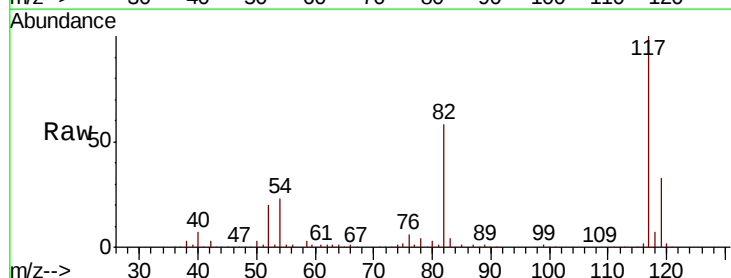
Tgt Ion: 117 Resp: 1205969

Ion Ratio Lower Upper

117 100

82 57.6 48.0 72.0

119 32.8 26.0 39.0

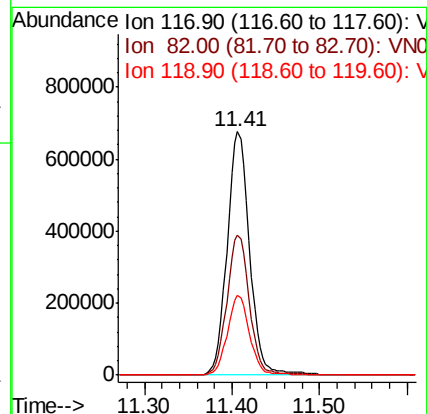
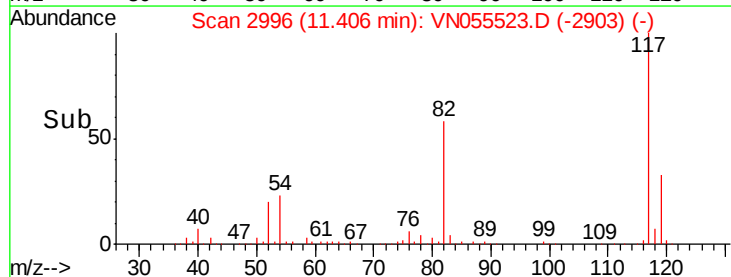


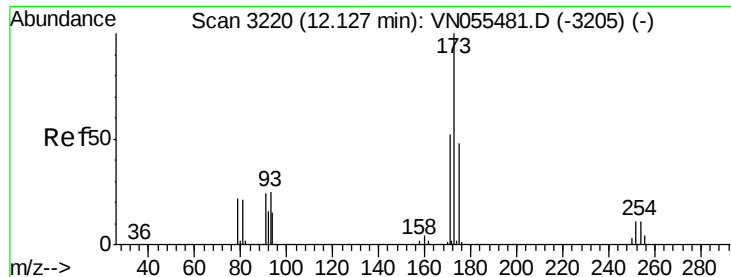
Abundance Ion 116.90 (116.60 to 117.60): VN055481.D (-2980) (-)

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

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

Time-->





#71

Bromoform

Concen: 0.488 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055523.D

Acq: 10 May 2019 2:54

Instrument :

MSVOA_N

ClientSampleId :

CKMW-20

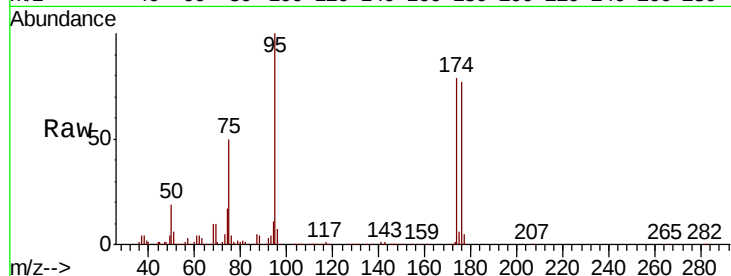
Tot Ion:173 Resp: 2810

Ion Ratio Lower Upper

173 100

175 870.2 24.1 72.4#

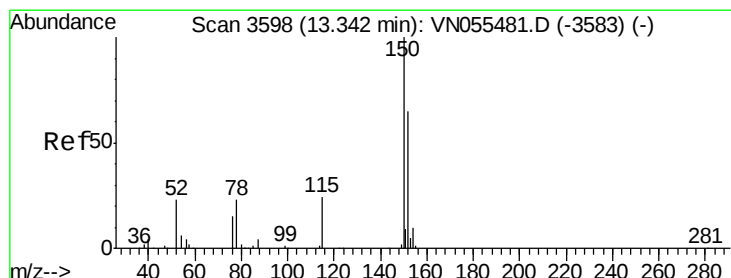
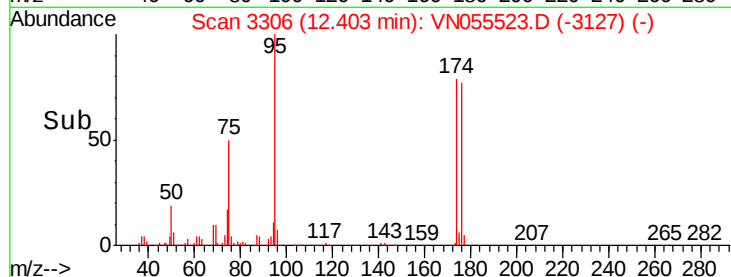
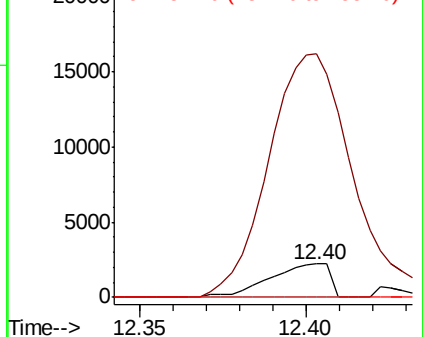
254 0.0 0.1 0.1#



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: VN055523.D

Acq: 10 May 2019 2:54

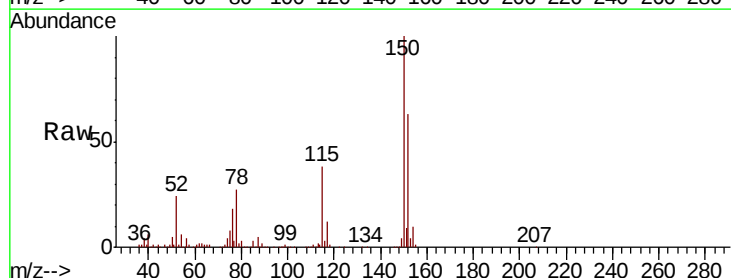
Tgt Ion:152 Resp: 325287

Ion Ratio Lower Upper

152 100

115 60.1 30.1 90.5

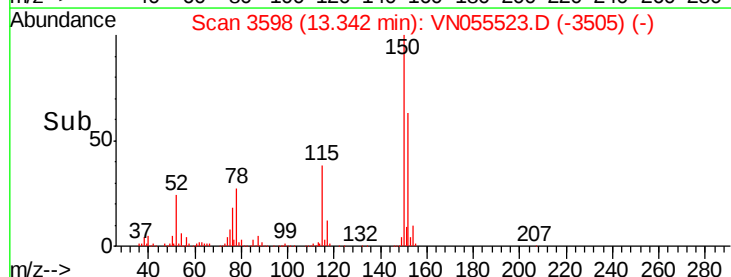
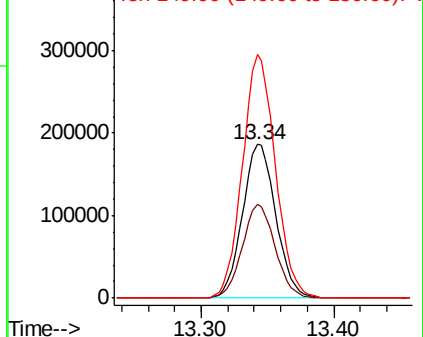
150 156.8 0.0 355.0

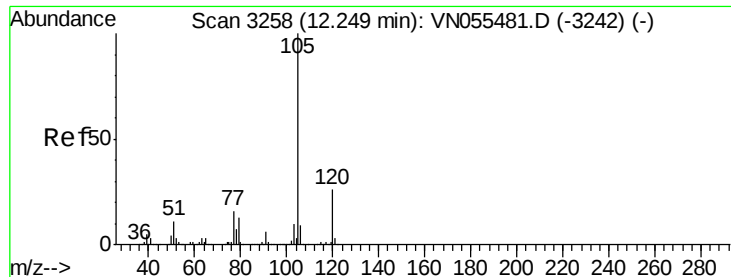


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.41 min Scan# 3307

Delta R.T. 0.16 min

Lab File: VN055523.D

Acq: 10 May 2019 2:54

Instrument :

MSVOA_N

ClientSampleId :

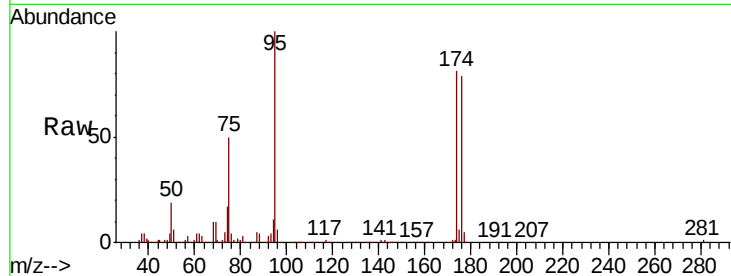
CKMW-20

Tot Ion: 105 Resp: 656

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

12.41

400

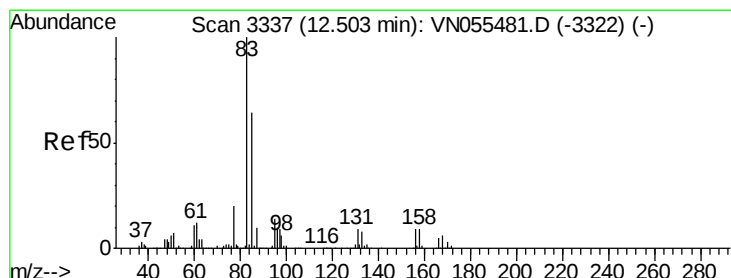
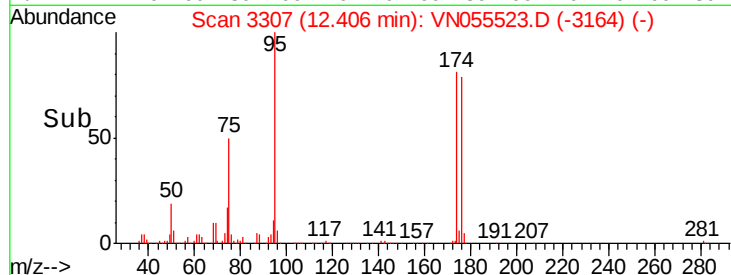
300

200

100

0

Time-->



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. -0.10 min

Lab File: VN055523.D

Acq: 10 May 2019 2:54

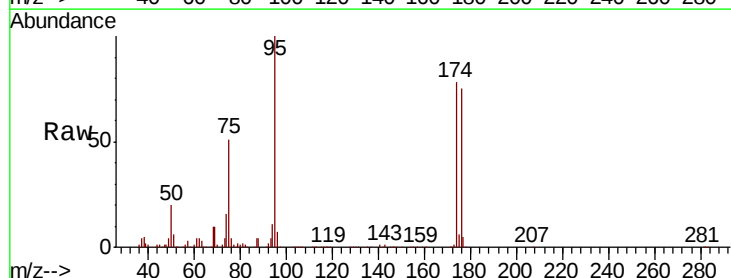
Tgt Ion: 83 Resp: 116

Ion Ratio Lower Upper

83 100

131 394.0 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

600

500

400

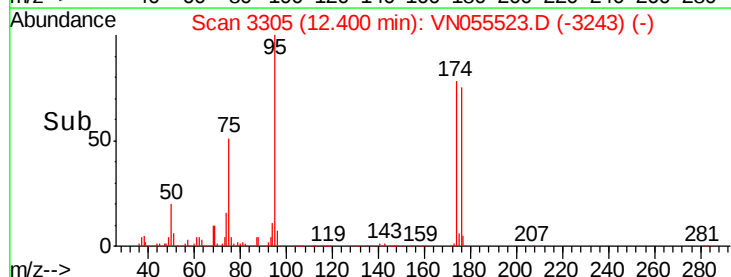
300

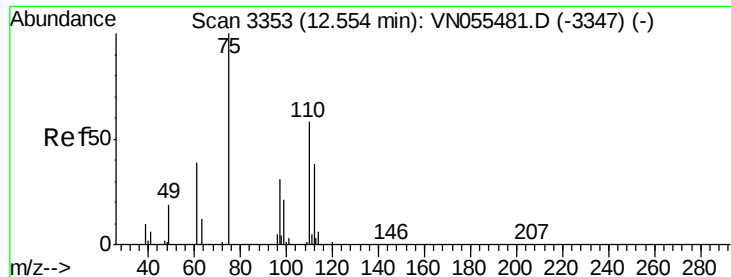
200

100

0

Time-->





#76

1,2,3-Trichloropropane

Concen: 28.256 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055523.D

Acq: 10 May 2019 2:54

Instrument :

MSVOA_N

ClientSampleId :

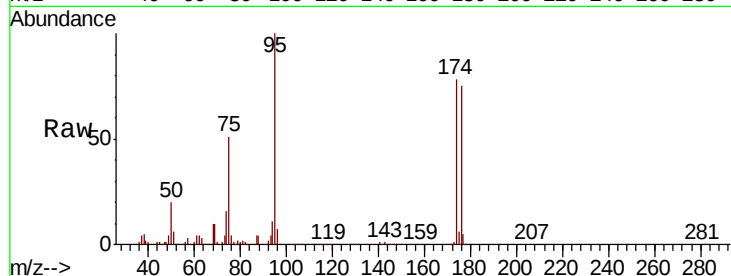
CKMW-20

Tot Ion: 75 Resp: 250216

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

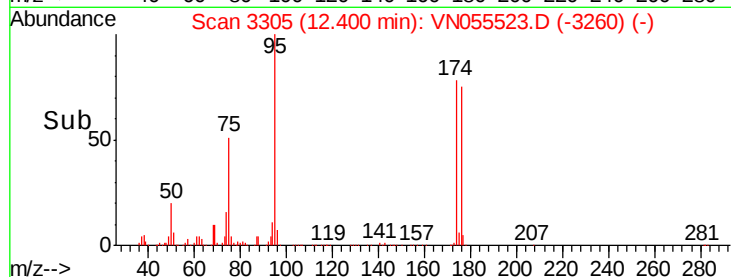
150000

100000

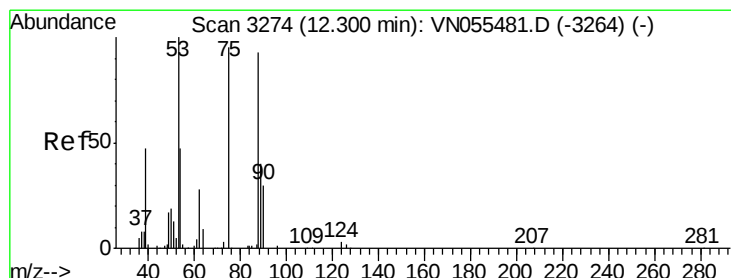
50000

0

12.30 12.40 12.50



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 104.260 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055523.D

Acq: 10 May 2019 2:54

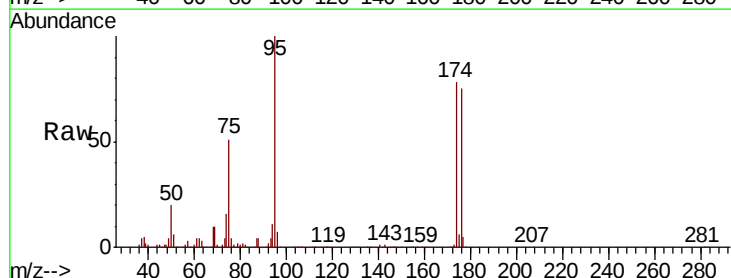
Tgt Ion: 75 Resp: 250216

Ion Ratio Lower Upper

75 100

53 0.1 86.5 129.7#

89 0.0 35.7 53.5#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

200000

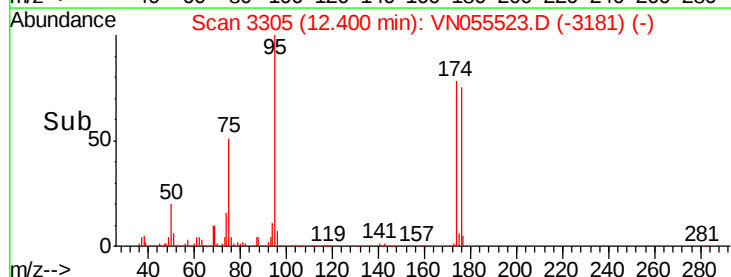
150000

100000

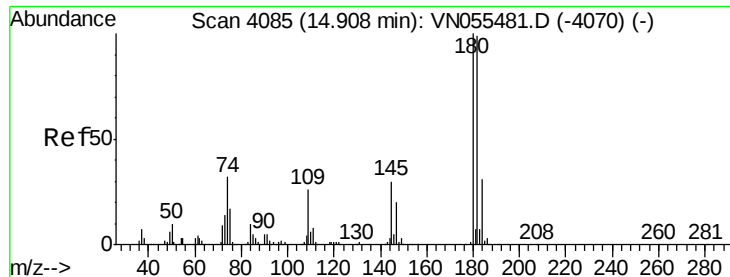
50000

0

12.30 12.40 12.50



Time-->



#93

1,2,4-Trichlorobenzene

Concen: 3.235 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN055523.D

Acq: 10 May 2019 2:54

Instrument :

MSVOA_N

ClientSampleId :

CKMW-20

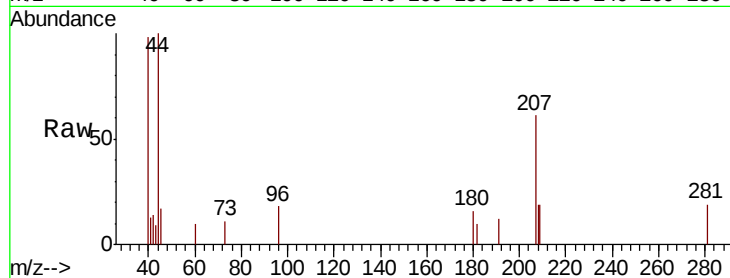
Tot Ion:180 Resp: 152

Ion Ratio Lower Upper

180 100

182 44.7 48.7 146.1#

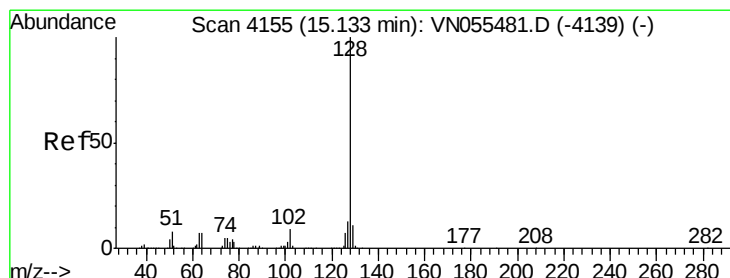
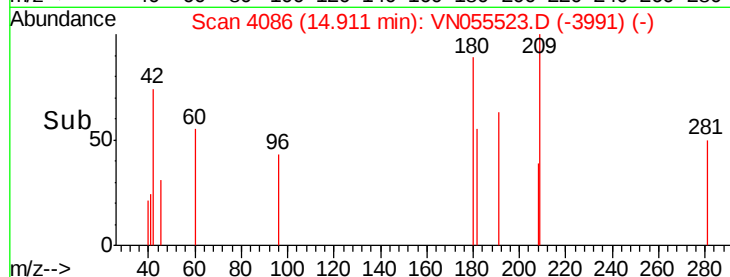
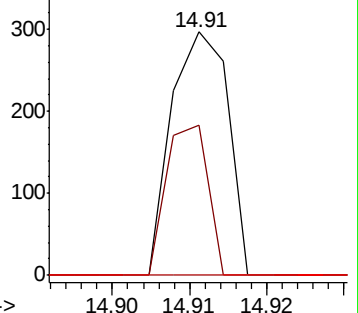
145 0.0 15.3 45.9#



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



#95

Naphthalene

Concen: 2.970 ug/l

RT: 15.15 min Scan# 4159

Delta R.T. 0.01 min

Lab File: VN055523.D

Acq: 10 May 2019 2:54

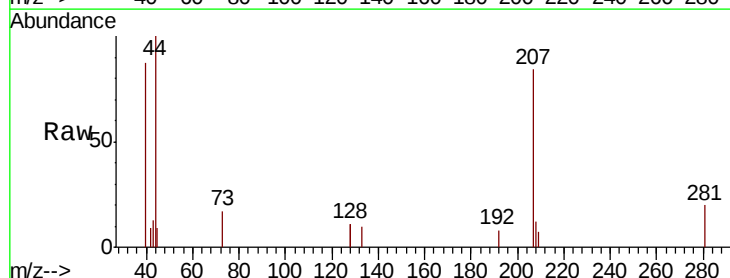
Tgt Ion:128 Resp: 479

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

