

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070419\
 Data File : VN056595.D
 Acq On : 3 Jul 2019 19:24
 Operator : JC/SP
 Sample : K3680-02DL 40X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2RDL

Quant Time: Jul 03 22:51:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061919W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 21 03:45:40 2019
 Response via : Initial Calibration

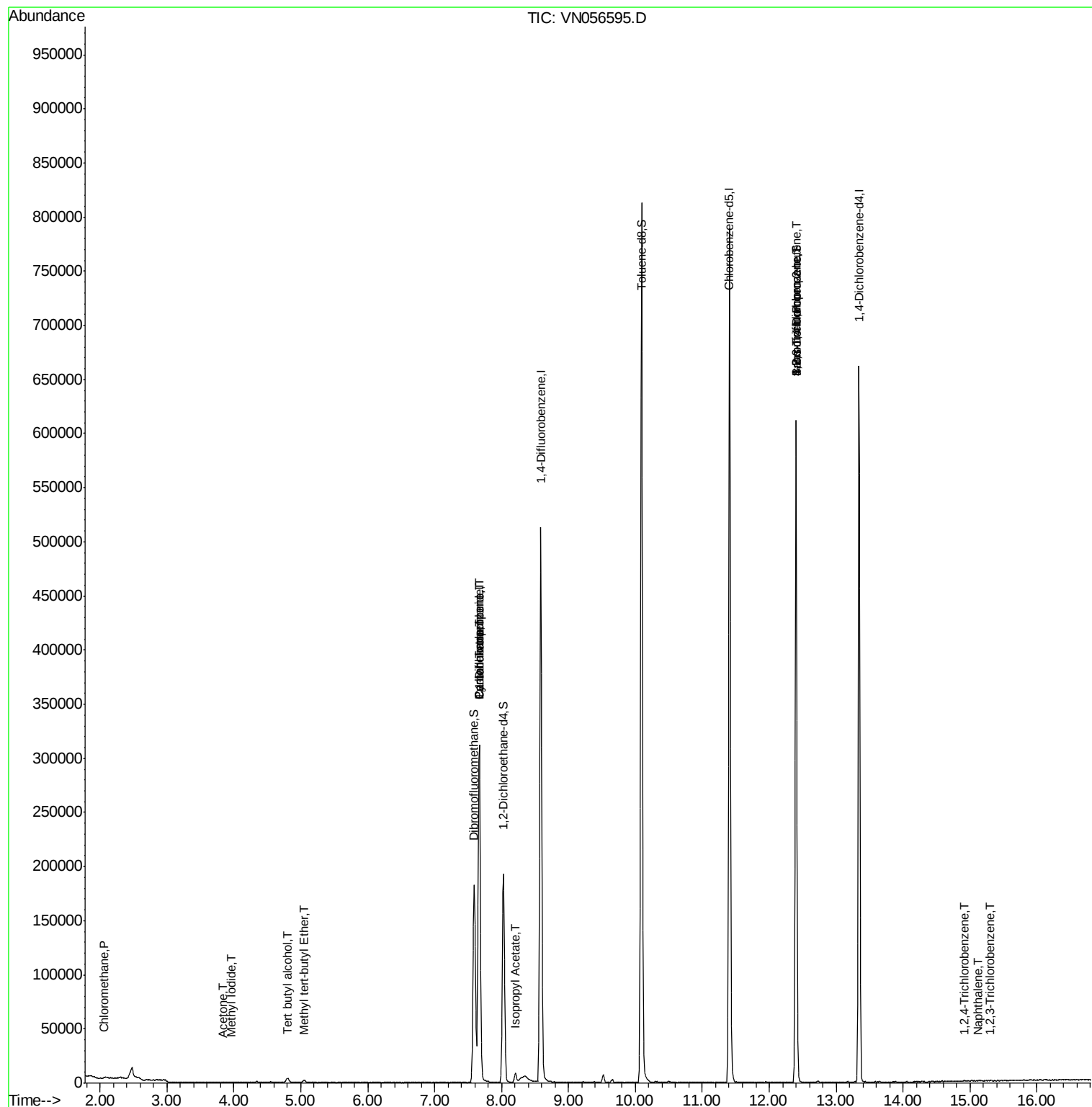
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	279768	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	484963	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	486659	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	190674	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	162311	52.35	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.70%	
35) Dibromofluoromethane	7.59	113	141560	46.79	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.58%	
50) Toluene-d8	10.09	98	600553	51.02	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.04%	
62) 4-Bromofluorobenzene	12.40	95	219094	55.83	ug/l	0.00
Spiked Amount 50.000			Recovery	=	111.66%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.06	50	706	0.219	ug/l #	42
10) Methyl Iodide	3.96	142	935	0.269	ug/l #	61
11) Tert butyl alcohol	4.80	59	7022	13.446	ug/l #	88
16) Acetone	3.83	43	670	0.431	ug/l #	42
18) Methyl Acetate	4.33	43	976	Below Cal	#	78
19) Methyl tert-butyl Ether	5.04	73	3814	0.466	ug/l	93
20) Methylene Chloride	4.55	84	410	Below Cal	#	69
31) Cyclohexane	7.66	56	4532	0.947	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	18104	4.241	ug/l #	48
38) Carbon Tetrachloride	7.67	117	25015	6.701	ug/l #	14
43) Isopropyl Acetate	8.21	43	1680	0.260	ug/l #	54
71) Bromoform	12.40	173	892	3.456	ug/l #	1
73) Isopropylbenzene	12.25	105	162	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	102025	25.805	ug/l #	100
79) 2-Chlorotoluene	12.68	91	204	Below Cal	#	40
80) 1,3,5-Trimethylbenzene	12.73	105	225	Below Cal	#	28
81) trans-1,4-Dichloro-2-buten	12.40	75	102025	91.716	ug/l #	8
93) 1,2,4-Trichlorobenzene	14.91	180	306	5.695	ug/l #	67
94) Hexachlorobutadiene	15.01	225	67	Below Cal	#	18
95) Naphthalene	15.13	128	1186	5.366	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.31	180	273	4.553	ug/l #	69

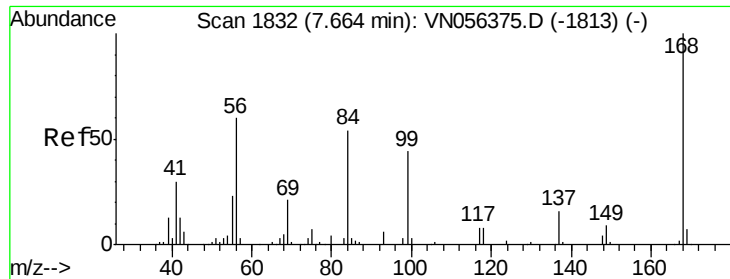
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MW-2RDL

Quant Time: Jul 03 22:51:54 2019
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Quant Title : SW846 8260
QLast Update : Fri Jun 21 03:45:40 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: VN056595.D

Acq: 3 Jul 2019 19:24

Instrument :

MSVOA_N

ClientSampled :

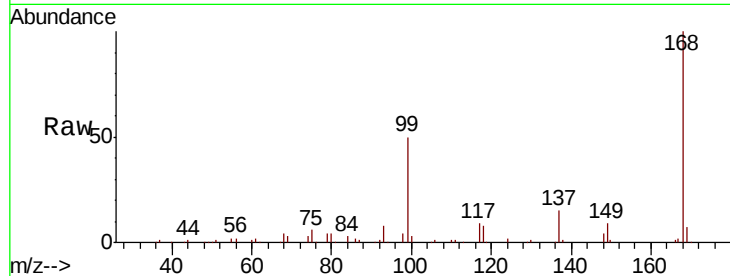
MW-2RDL

Tot Ion:168 Resp: 279768

Ion Ratio Lower Upper

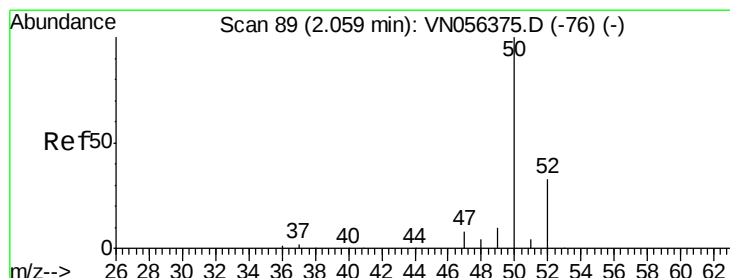
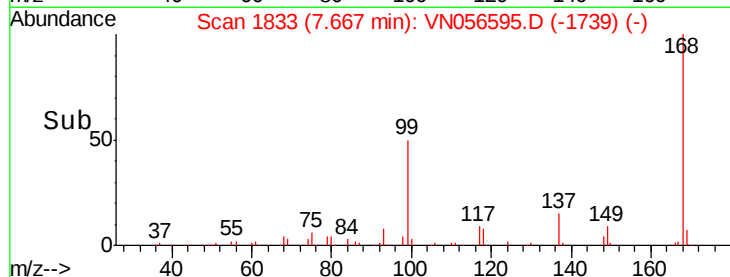
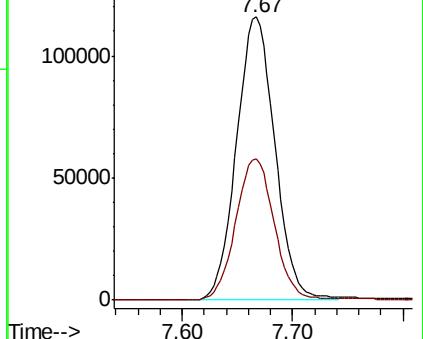
168 100

99 49.8 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: 0.219 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN056595.D

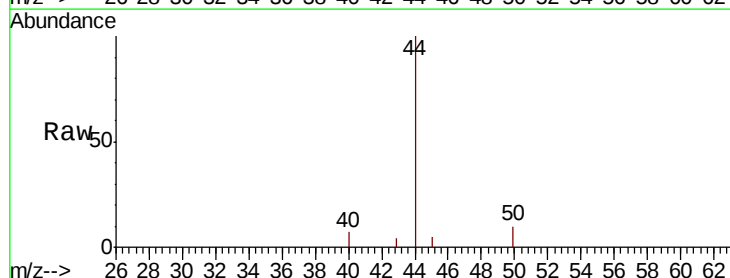
Acq: 3 Jul 2019 19:24

Tgt Ion: 50 Resp: 706

Ion Ratio Lower Upper

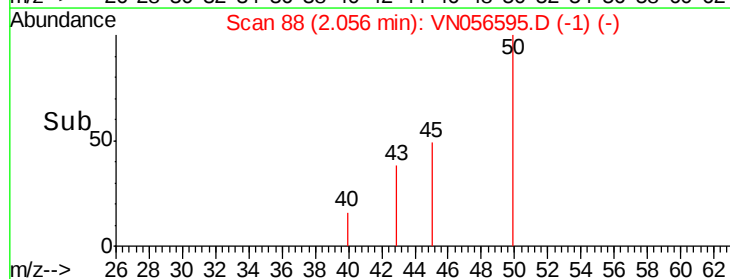
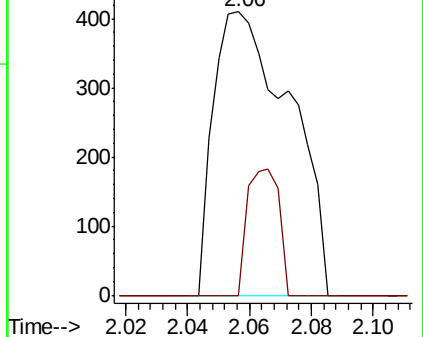
50 100

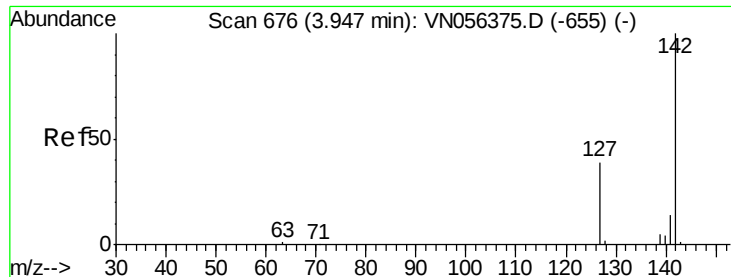
52 0.0 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

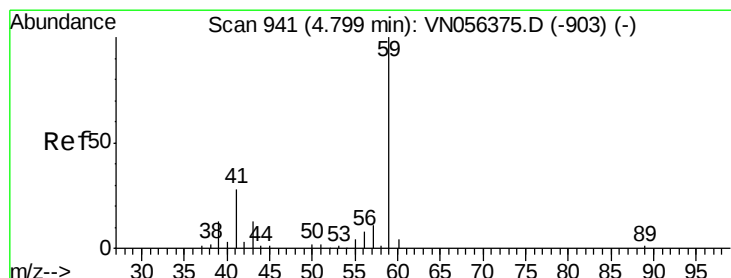
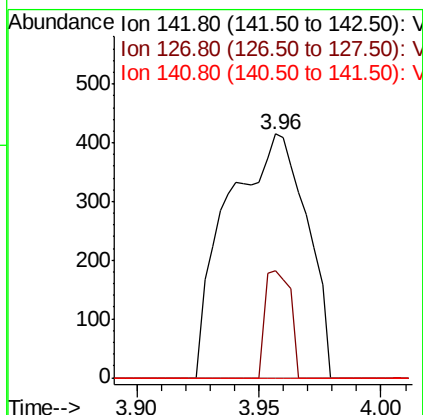
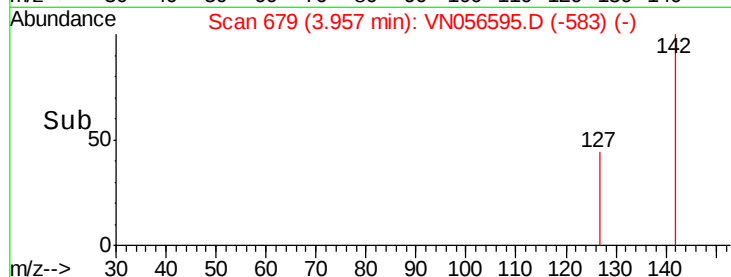
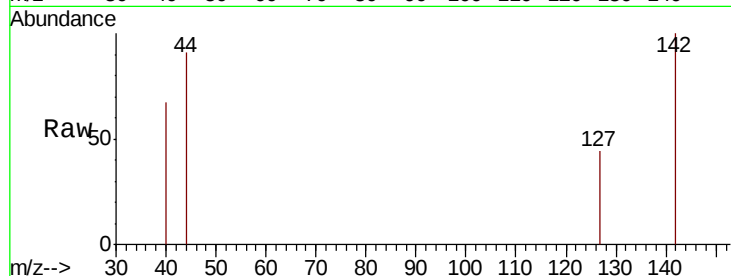




#10
Methyl Iodide
Concen: 0.269 ug/l
RT: 3.96 min Scan# 679
Delta R.T. 0.01 min
Lab File: VN056595.D
Acq: 3 Jul 2019 19:24

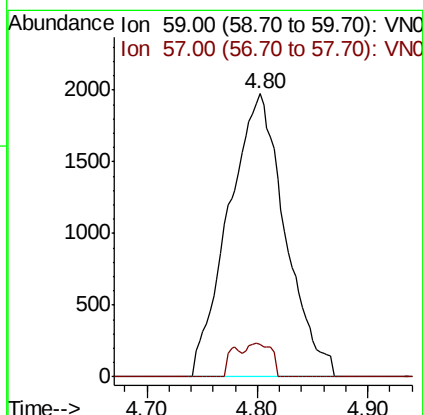
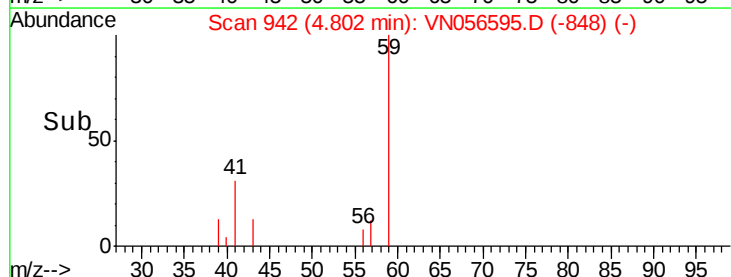
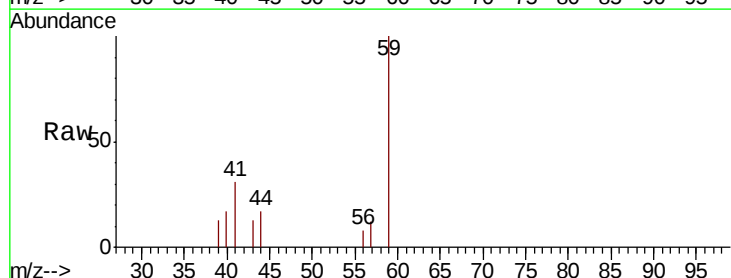
Instrument :
MSVOA_N
ClientSampled :
MW-2RDL

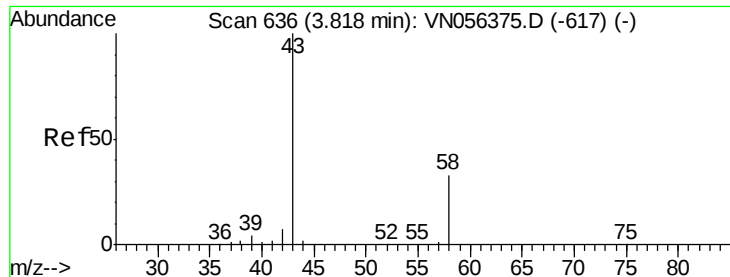
Tot Ion:142 Resp: 935
Ion Ratio Lower Upper
142 100
127 14.0 30.6 46.0#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 13.446 ug/l
RT: 4.80 min Scan# 942
Delta R.T. 0.00 min
Lab File: VN056595.D
Acq: 3 Jul 2019 19:24

Tgt Ion: 59 Resp: 7022
Ion Ratio Lower Upper
59 100
57 5.2 7.6 11.4#





#16

Acetone

Concen: 0.431 ug/l

RT: 3.83 min Scan# 640

Delta R.T. 0.01 min

Lab File: VN056595.D

Acq: 3 Jul 2019 19:24

Instrument :

MSVOA_N

ClientSampled :

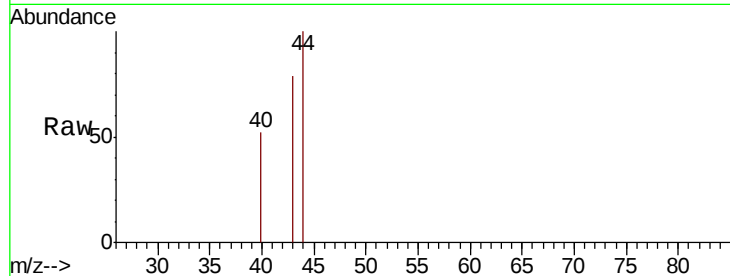
MW-2RDL

Tot Ion: 43 Resp: 670

Ion Ratio Lower Upper

43 100

58 0.0 26.4 39.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.83

300

200

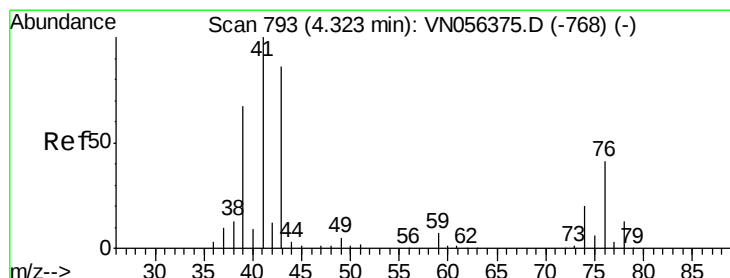
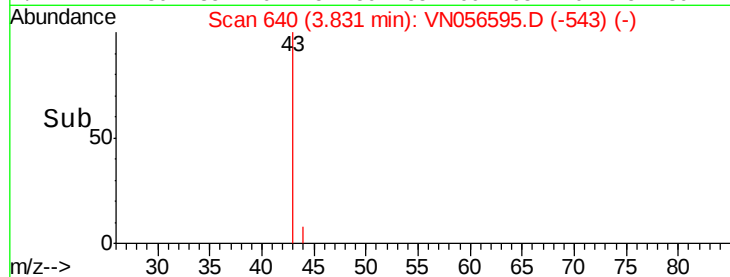
100

0

Time-->

3.80

3.85



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN056595.D

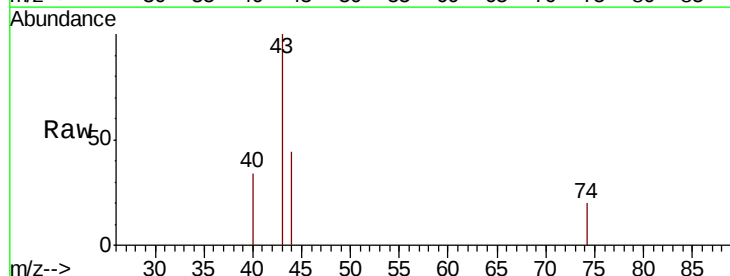
Acq: 3 Jul 2019 19:24

Tgt Ion: 43 Resp: 976

Ion Ratio Lower Upper

43 100

74 12.9 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.33

800

600

400

200

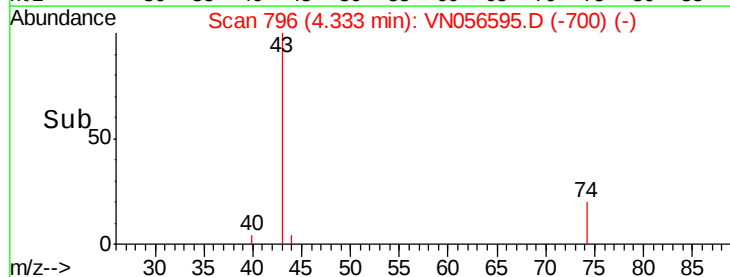
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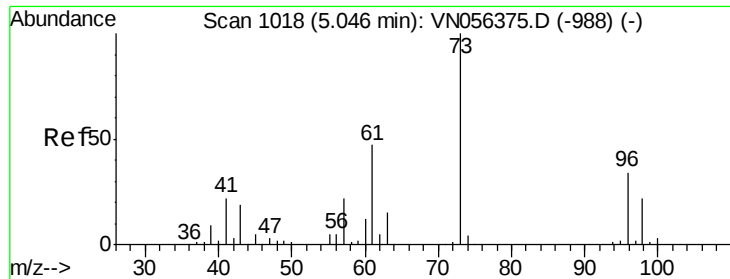
Time-->

4.30

4.32

4.34

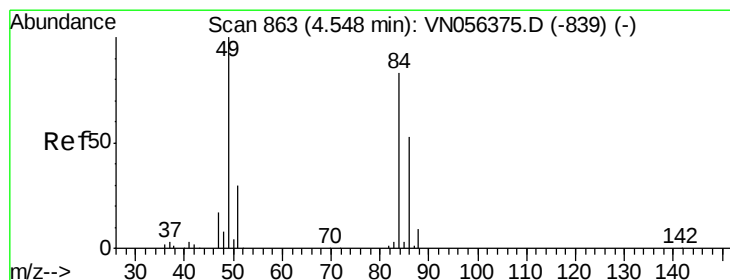
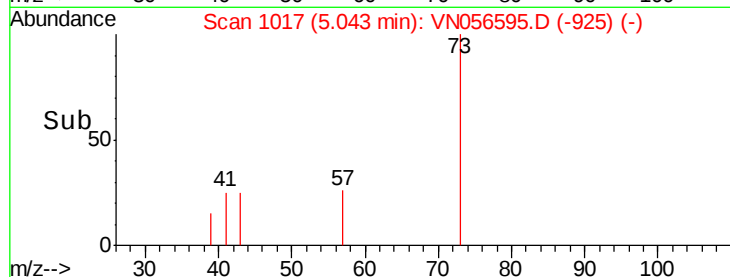
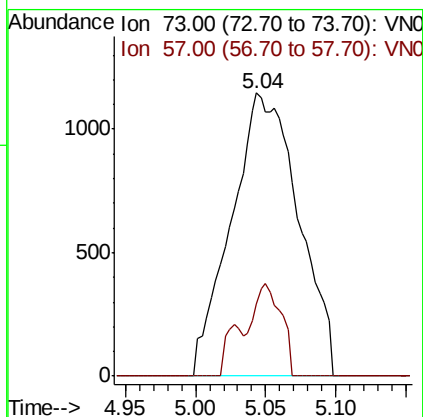
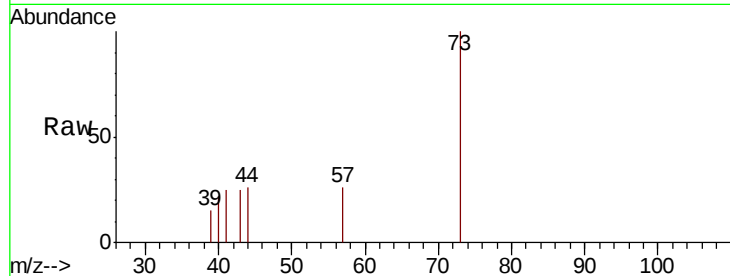




#19
Methyl tert-butyl Ether
Concen: 0.466 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN056595.D
Acq: 3 Jul 2019 19:24

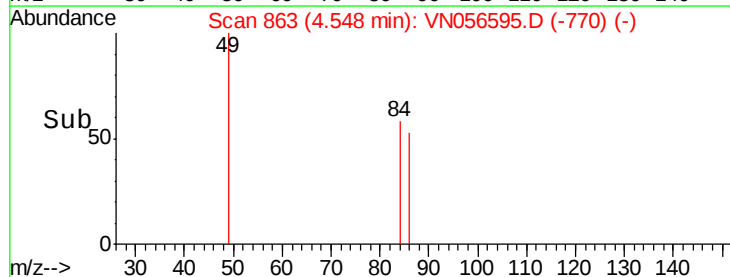
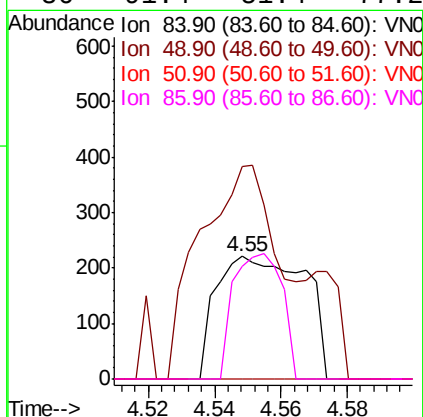
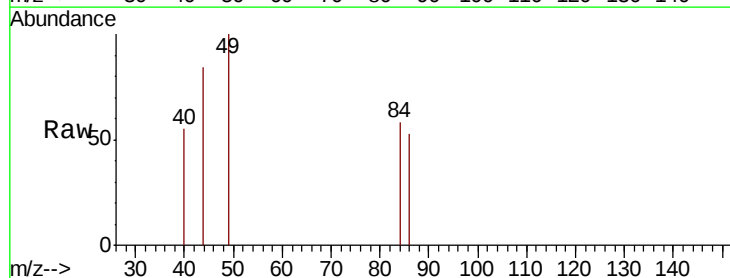
Instrument :
MSVOA_N
ClientSampled :
MW-2RDL

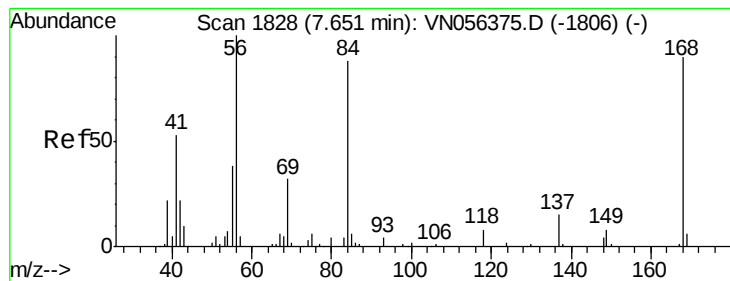
Tot Ion: 73 Resp: 3814
Ion Ratio Lower Upper
73 100
57 25.6 17.9 26.9



#20
Methylene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN056595.D
Acq: 3 Jul 2019 19:24

Tgt Ion: 84 Resp: 410
Ion Ratio Lower Upper
84 100
49 97.3 96.4 144.6
51 0.0 28.6 43.0#
86 91.4 51.4 77.2#





#31

Cyclohexane

Concen: 0.947 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN056595.D

Acq: 3 Jul 2019 19:24

Instrument :

MSVOA_N

ClientSampled :

MW-2RDL

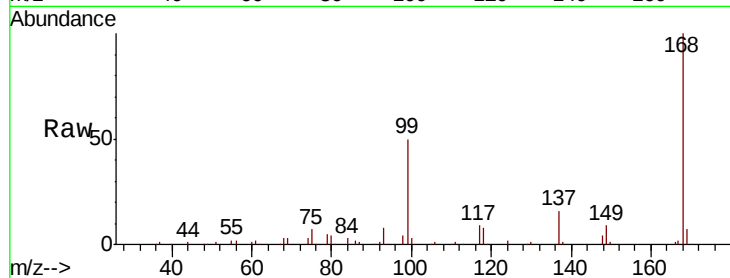
Tot Ion: 56 Resp: 4532

Ion Ratio Lower Upper

56 100

69 179.3 25.8 38.6#

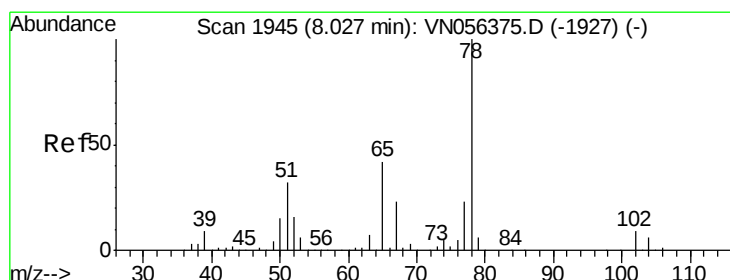
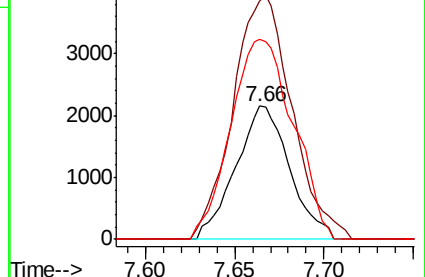
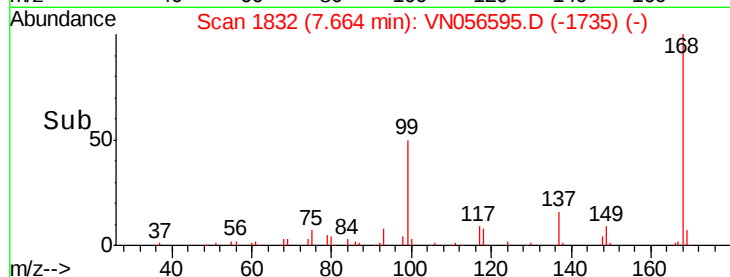
84 150.2 69.4 104.0#



Abundance Ion 56.00 (55.70 to 56.70): VN056375.D (-1806) (-)

Ion 69.00 (68.70 to 69.70): VN056375.D (-1806) (-)

Ion 84.00 (83.70 to 84.70): VN056375.D (-1806) (-)



#33

1,2-Dichloroethane-d4

Concen: 52.347 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056595.D

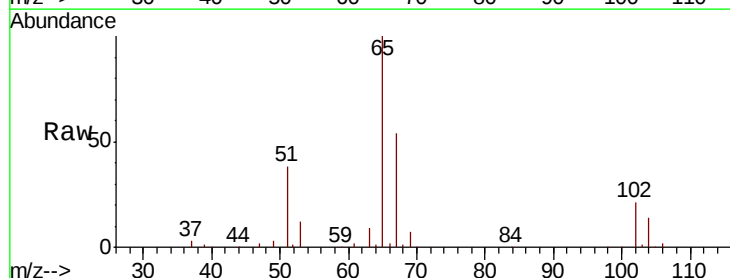
Acq: 3 Jul 2019 19:24

Tgt Ion: 65 Resp: 162311

Ion Ratio Lower Upper

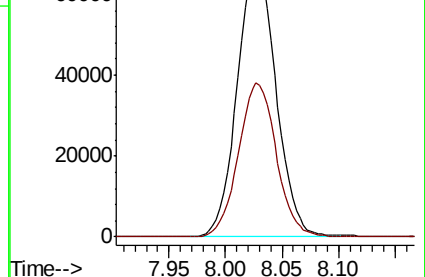
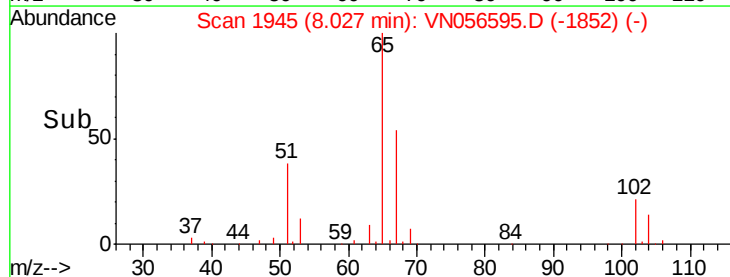
65 100

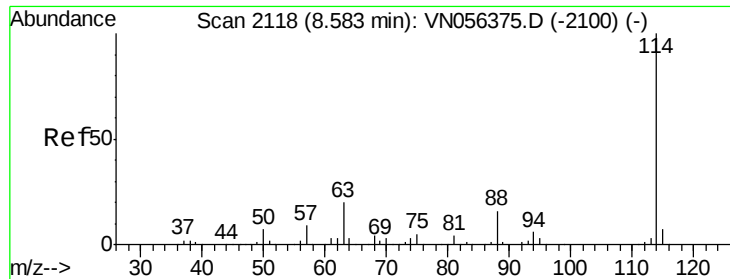
67 54.7 0.0 109.0



Abundance Ion 64.90 (64.60 to 65.60): VN056375.D (-1927) (-)

Ion 66.90 (66.60 to 67.60): VN056375.D (-1927) (-)

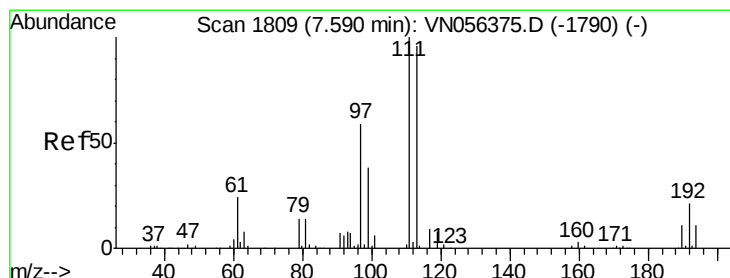
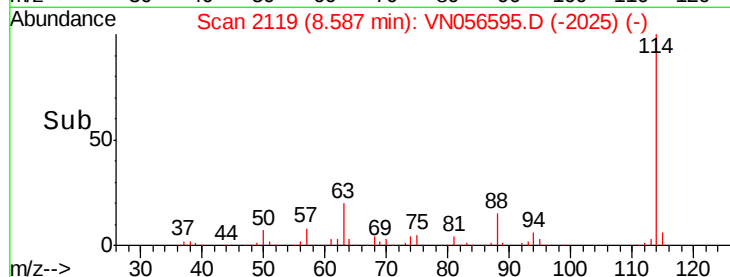
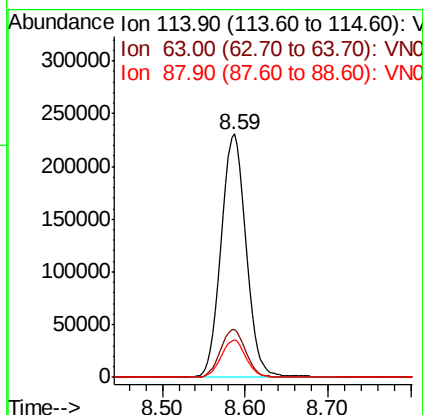
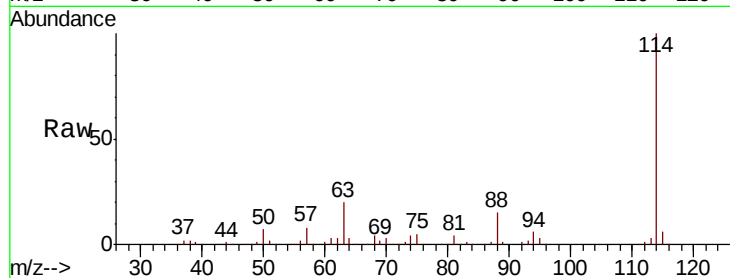




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN056595.D
Acq: 3 Jul 2019 19:24

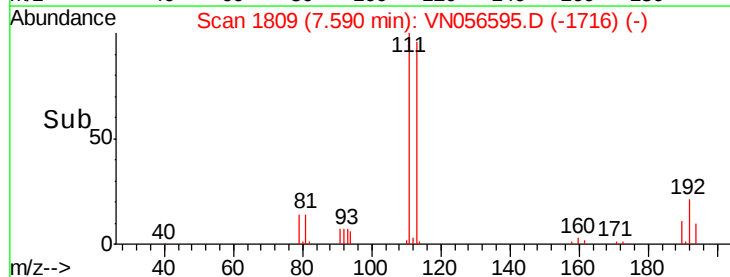
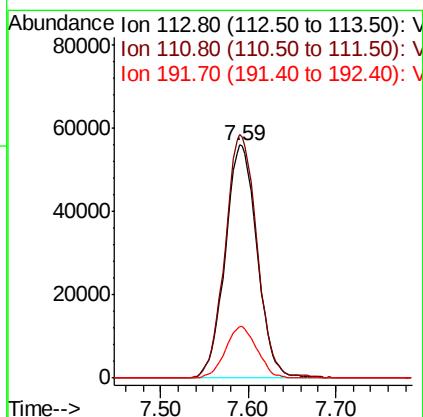
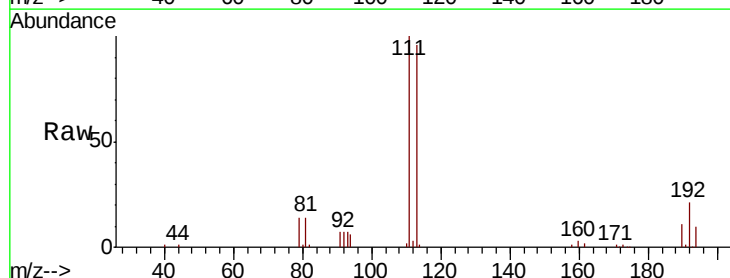
Instrument :
MSVOA_N
ClientSampleId :
MW-2RDL

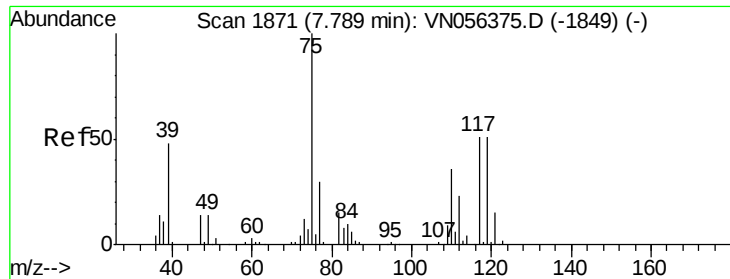
Tot Ion:114 Resp: 484963
Ion Ratio Lower Upper
114 100
63 19.5 0.0 39.2
88 15.4 0.0 31.4



#35
Dibromofluoromethane
Concen: 46.791 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN056595.D
Acq: 3 Jul 2019 19:24

Tgt Ion:113 Resp: 141560
Ion Ratio Lower Upper
113 100
111 104.3 82.9 124.3
192 21.9 17.7 26.5

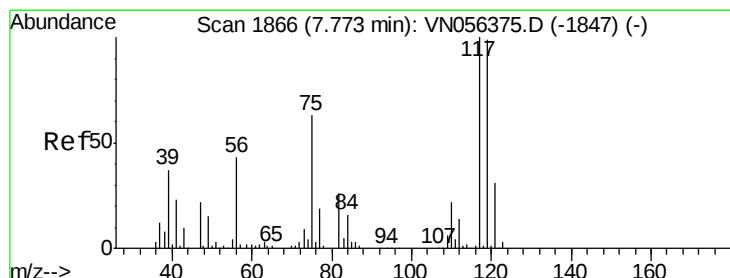
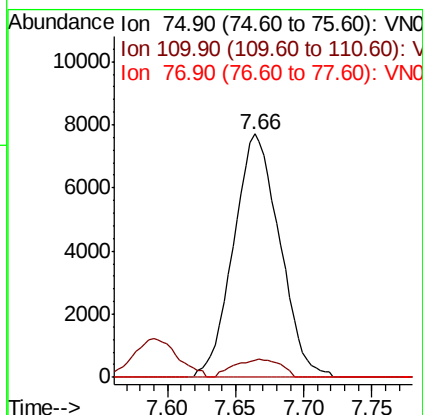
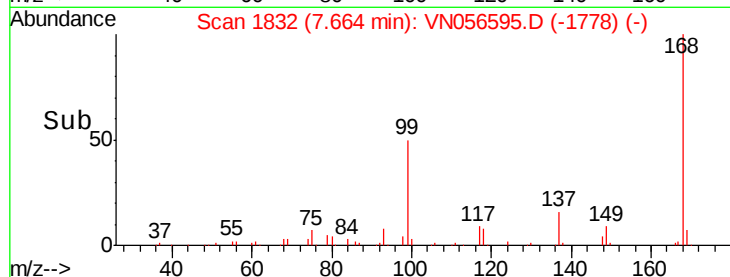
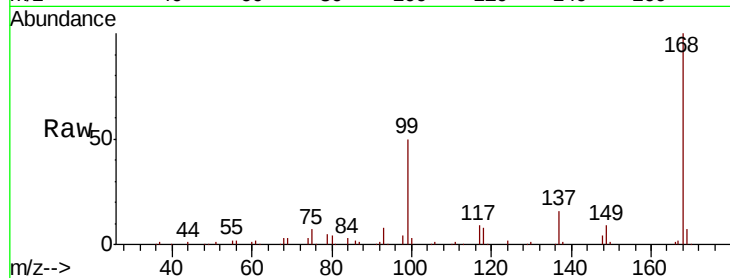




#36
 1,1-Dichloropropene
 Concen: 4.241 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056595.D
 Acq: 3 Jul 2019 19:24

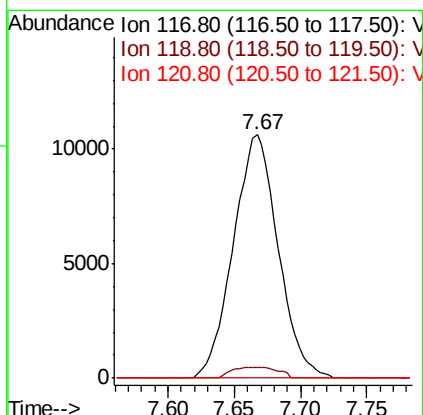
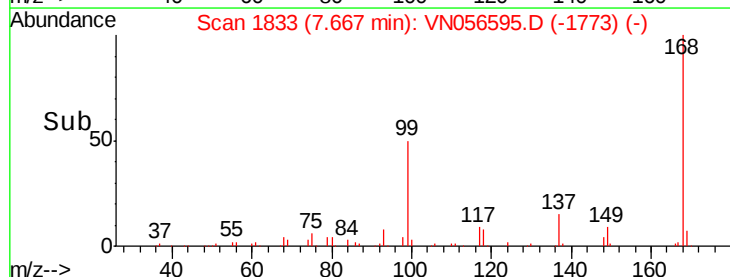
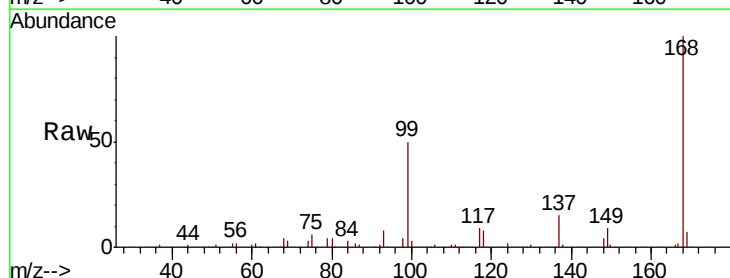
Instrument :
 MSVOA_N
 ClientSampled :
 MW-2RDL

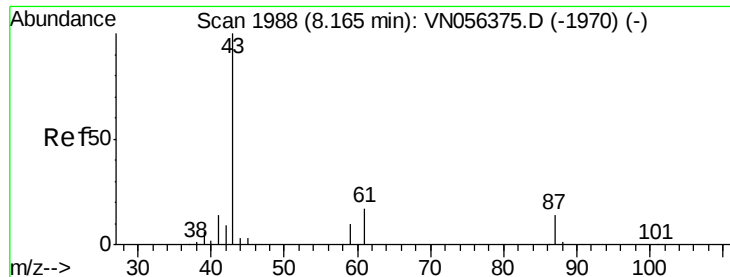
Tot Ion: 75 Resp: 18104
 Ion Ratio Lower Upper
 75 100
 110 7.4 18.1 54.3#
 77 0.0 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 6.701 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN056595.D
 Acq: 3 Jul 2019 19:24

Tgt Ion: 117 Resp: 25015
 Ion Ratio Lower Upper
 117 100
 119 4.5 79.1 118.7#
 121 0.0 24.8 37.2#





#43

Isopropyl Acetate

Concen: 0.260 ug/l

RT: 8.21 min Scan# 2001

Delta R.T. 0.04 min

Lab File: VN056595.D

Acq: 3 Jul 2019 19:24

Instrument :

MSVOA_N

ClientSampled :

MW-2RDL

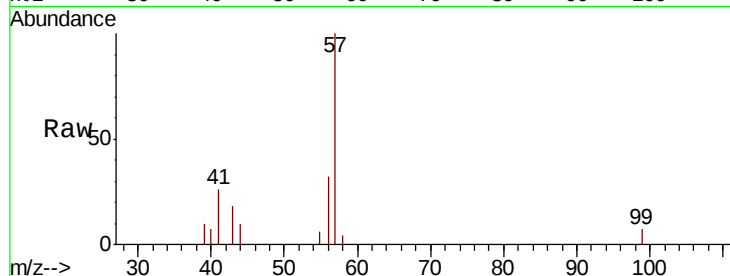
Tot Ion: 43 Resp: 1680

Ion Ratio Lower Upper

43 100

61 0.0 22.0 33.0#

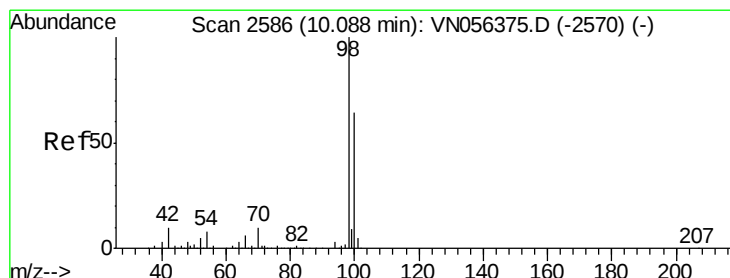
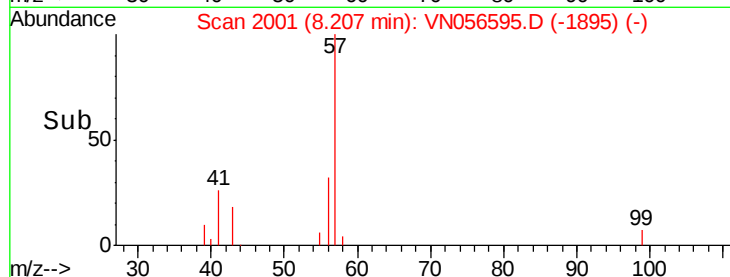
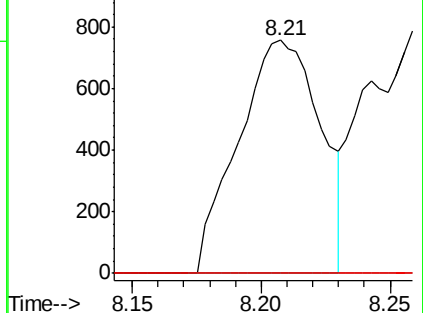
87 0.0 11.0 16.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 51.016 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056595.D

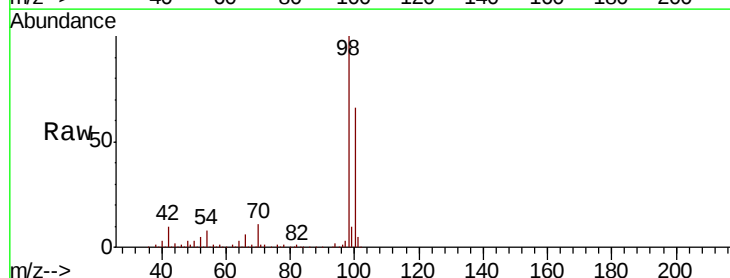
Acq: 3 Jul 2019 19:24

Tgt Ion: 98 Resp: 600553

Ion Ratio Lower Upper

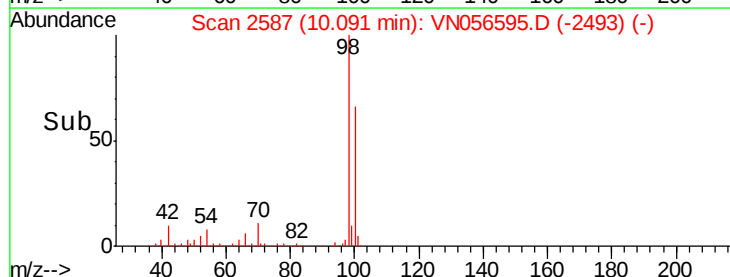
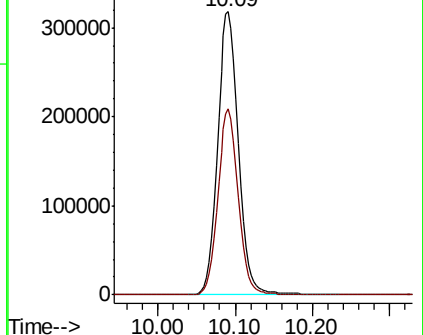
98 100

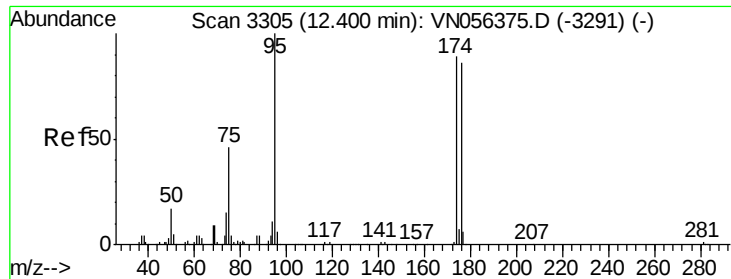
100 64.4 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

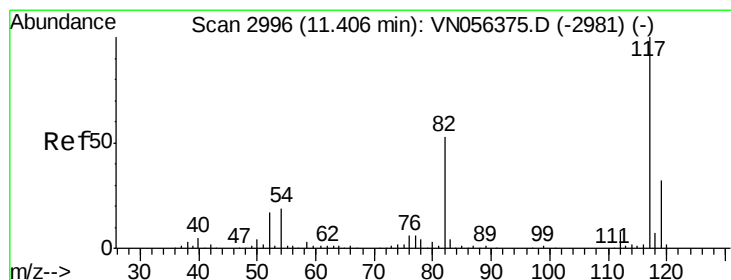
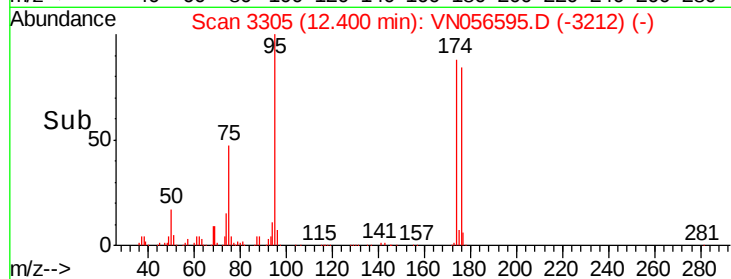
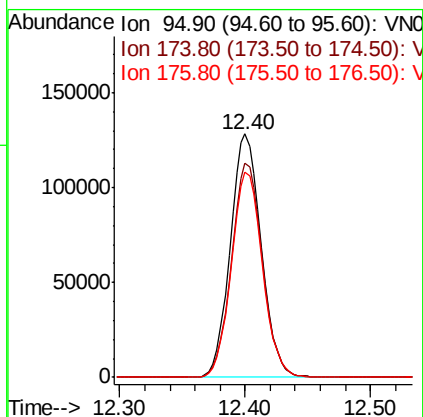
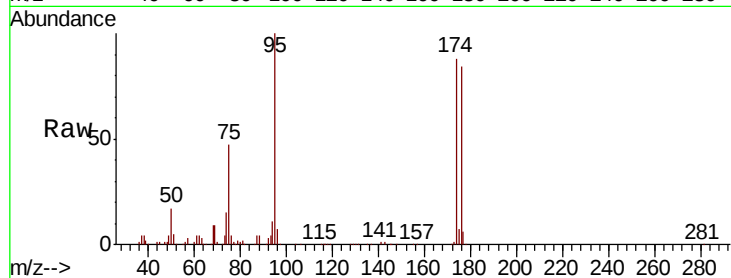




#62
4-Bromofluorobenzene
Concen: 55.830 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056595.D
Acq: 3 Jul 2019 19:24

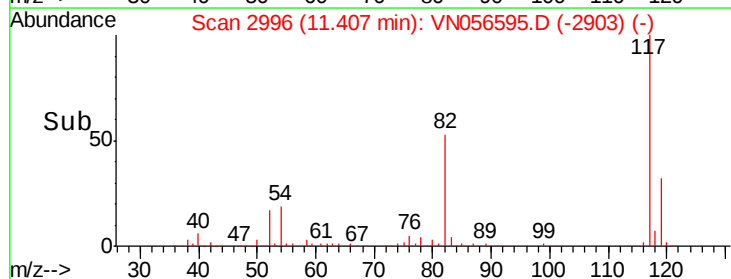
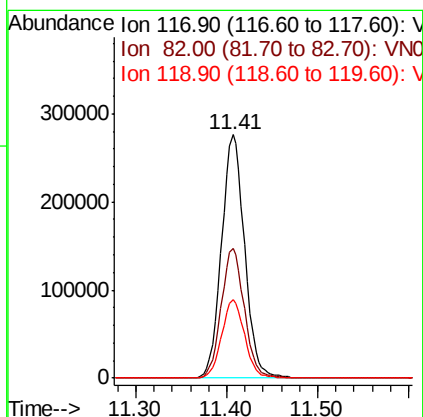
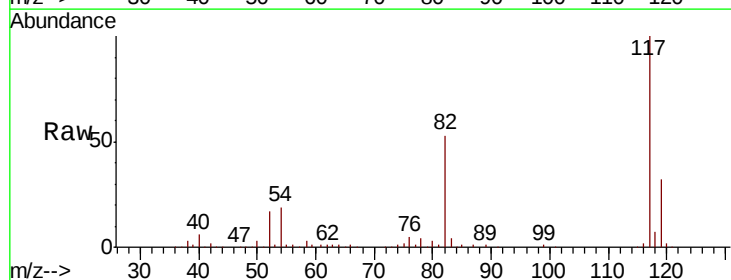
Instrument :
MSVOA_N
ClientSampleId :
MW-2RDL

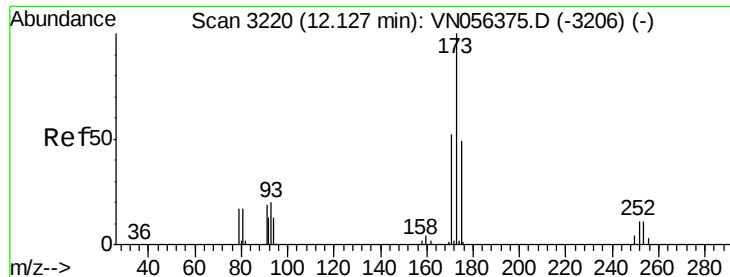
Tot Ion: 95 Resp: 219094
Ion Ratio Lower Upper
95 100
174 88.2 0.0 179.4
176 84.8 0.0 173.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056595.D
Acq: 3 Jul 2019 19:24

Tgt Ion: 117 Resp: 486659
Ion Ratio Lower Upper
117 100
82 53.3 42.0 63.0
119 32.3 25.3 37.9





#71

Bromoform

Concen: 3.456 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN056595.D

Acq: 3 Jul 2019 19:24

Instrument :

MSVOA_N

ClientSampled :

MW-2RDL

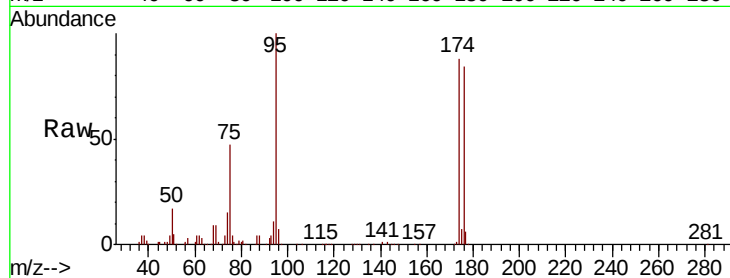
Tot Ion:173 Resp: 892

Ion Ratio Lower Upper

173 100

175 1390.7 24.4 73.4#

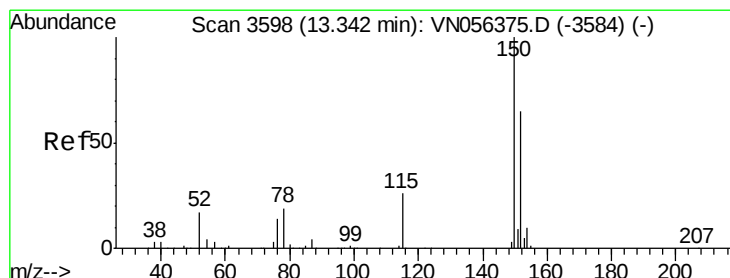
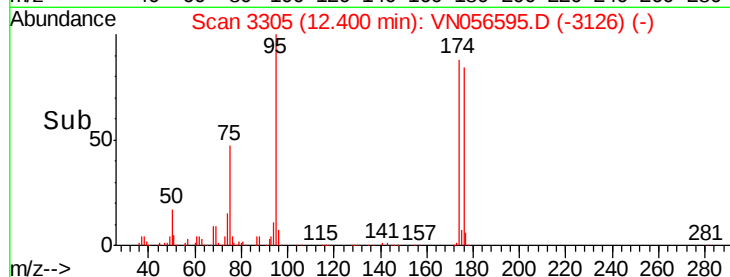
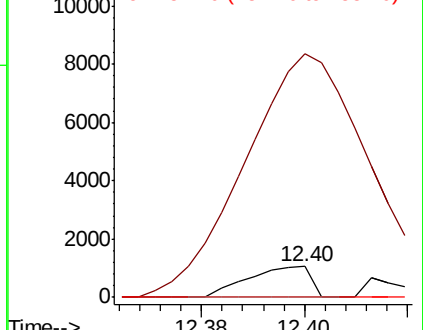
254 0.0 0.0 0.0



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: VN056595.D

Acq: 3 Jul 2019 19:24

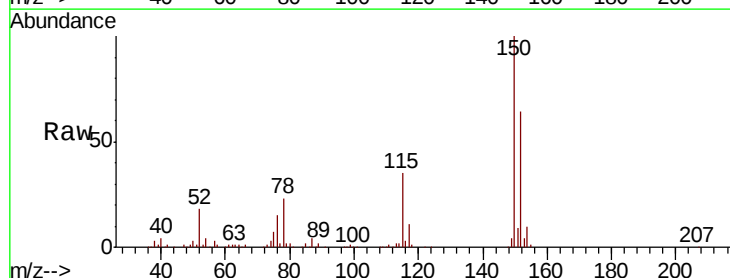
Tgt Ion:152 Resp: 190674

Ion Ratio Lower Upper

152 100

115 55.9 28.1 84.4

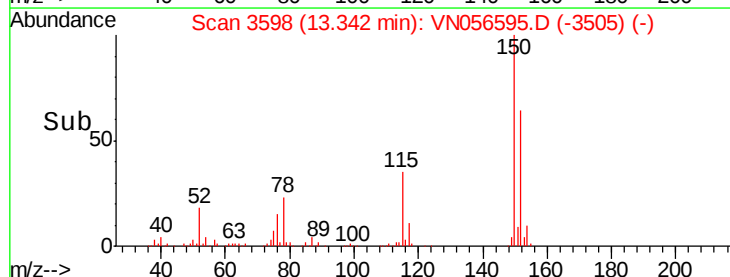
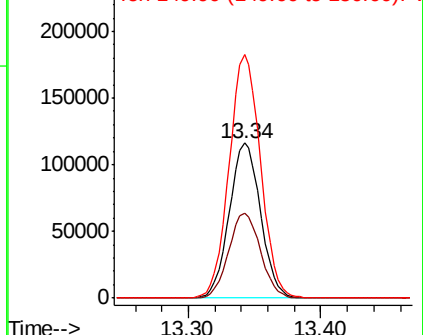
150 157.6 0.0 348.4

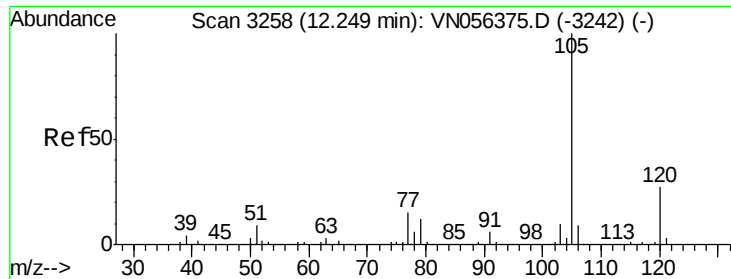


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN056595.D

Acq: 3 Jul 2019 19:24

Instrument :

MSVOA_N

ClientSampleId :

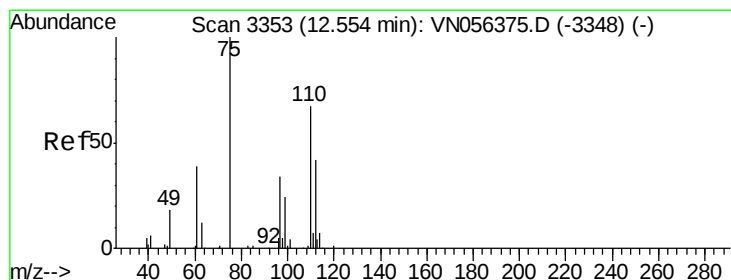
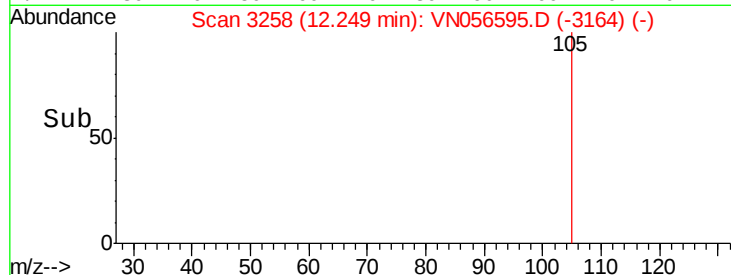
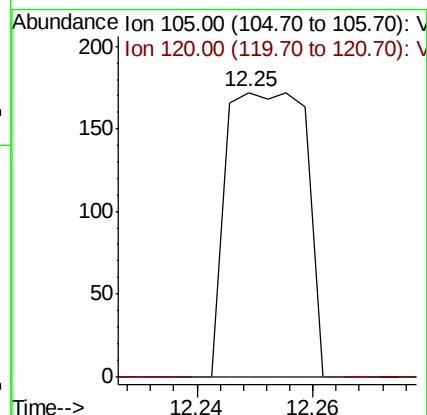
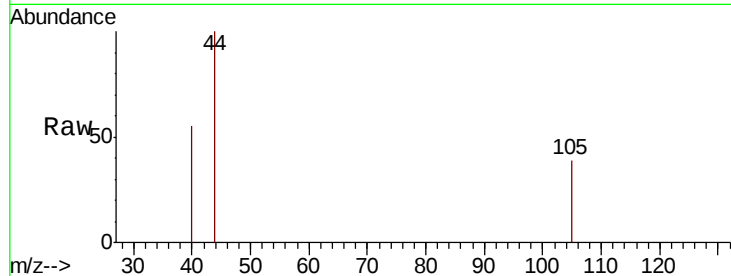
MW-2RDL

Tot Ion:105 Resp: 162

Ion Ratio Lower Upper

105 100

120 0.0 13.4 40.2#



#76

1,2,3-Trichloropropane

Concen: 25.805 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056595.D

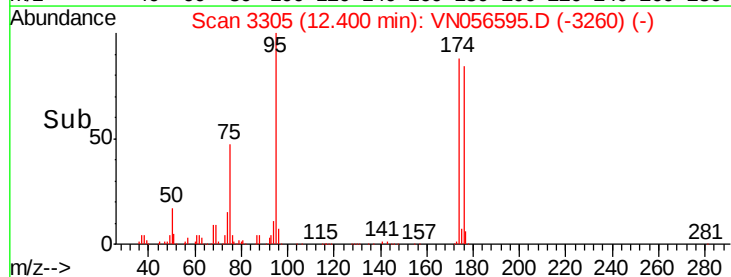
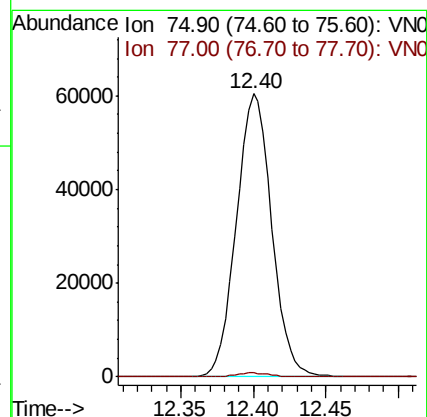
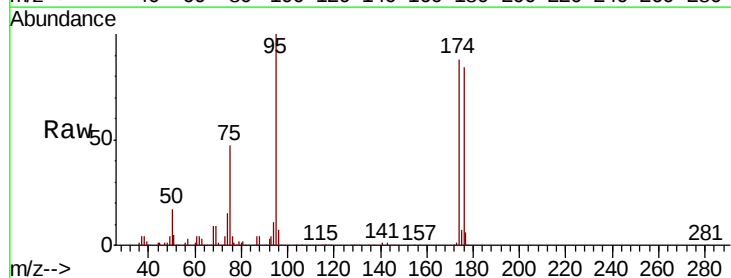
Acq: 3 Jul 2019 19:24

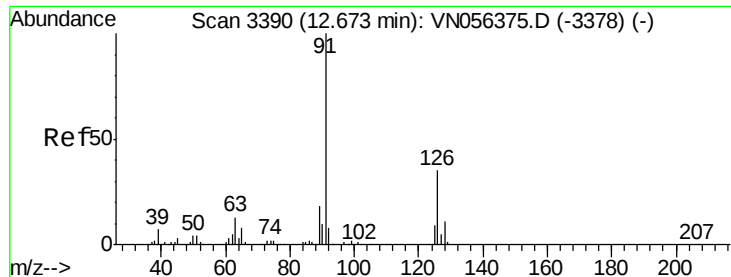
Tgt Ion: 75 Resp: 102025

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.68 min Scan# 3392

Delta R.T. 0.01 min

Lab File: VN056595.D

Acq: 3 Jul 2019 19:24

Instrument :

MSVOA_N

ClientSampled :

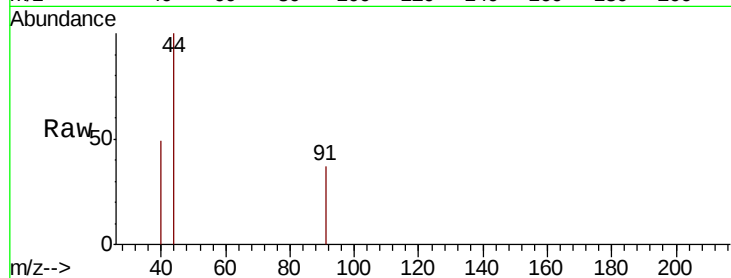
MW-2RDL

Tot Ion: 91 Resp: 204

Ion Ratio Lower Upper

91 100

126 0.0 17.6 52.8#



Abundance Ion 91.00 (90.70 to 91.70): VN056375.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN056375.D (-3378) (-)

12.68

200

150

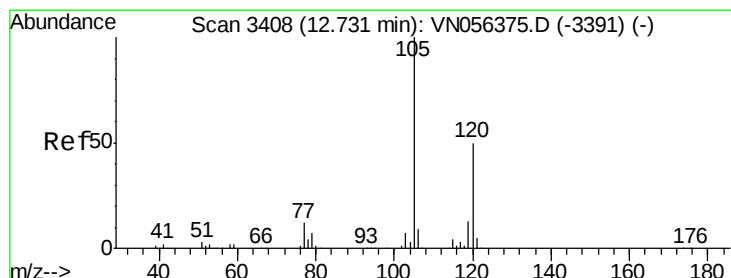
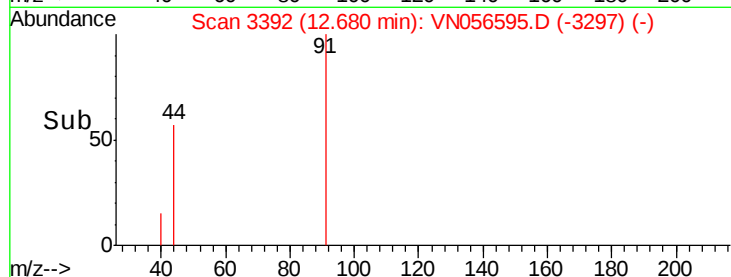
100

50

0

12.66 12.68

Time-->



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN056595.D

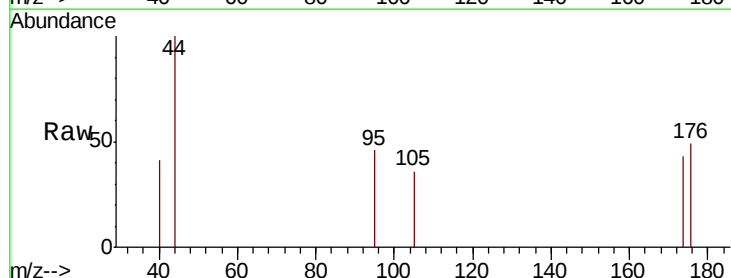
Acq: 3 Jul 2019 19:24

Tgt Ion: 105 Resp: 225

Ion Ratio Lower Upper

105 100

120 0.0 24.8 74.4#



Abundance Ion 105.00 (104.70 to 105.70): VN056375.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN056375.D (-3391) (-)

250

200

150

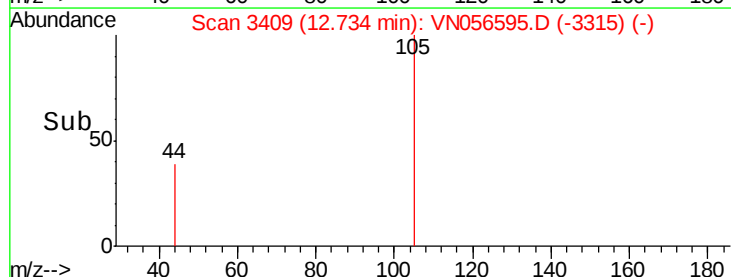
100

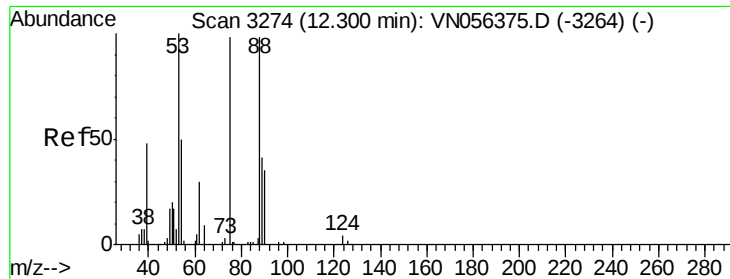
50

0

12.72 12.74

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 91.716 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056595.D

Acq: 3 Jul 2019 19:24

Instrument :

MSVOA_N

ClientSampleId :

MW-2RDL

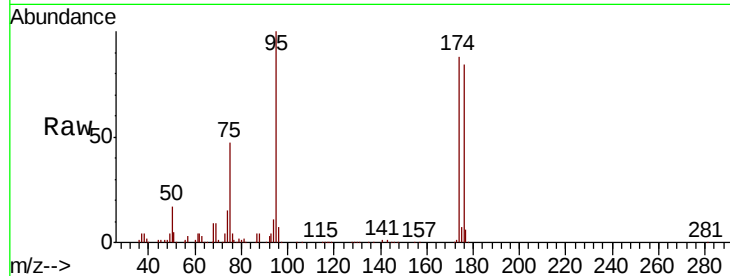
Tot Ion: 75 Resp: 102025

Ion Ratio Lower Upper

75 100

53 0.0 83.9 125.9#

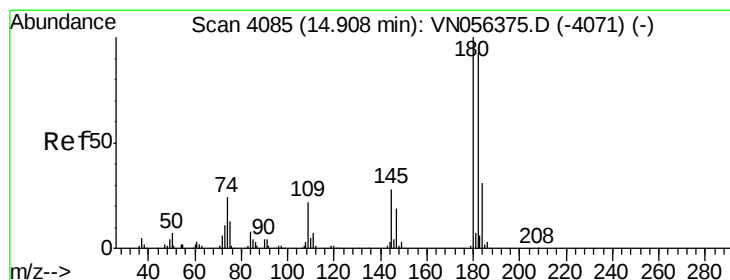
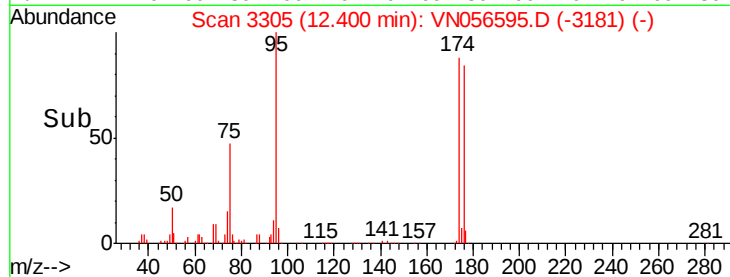
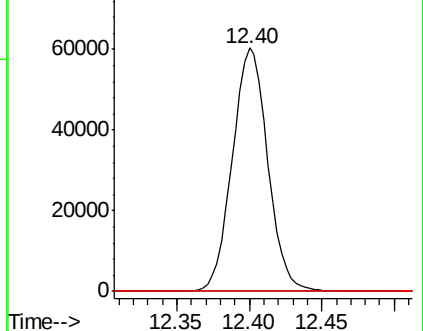
89 0.0 35.0 52.6#



Abundance Ion 74.90 (74.60 to 75.60): VN056375.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN056375.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN056375.D (-3264) (-)



#93

1,2,4-Trichlorobenzene

Concen: 5.695 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN056595.D

Acq: 3 Jul 2019 19:24

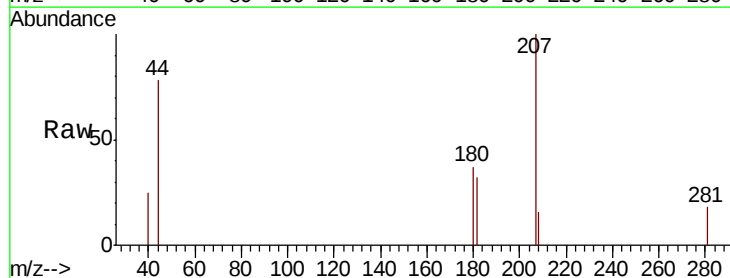
Tgt Ion: 180 Resp: 306

Ion Ratio Lower Upper

180 100

182 119.3 46.9 140.6

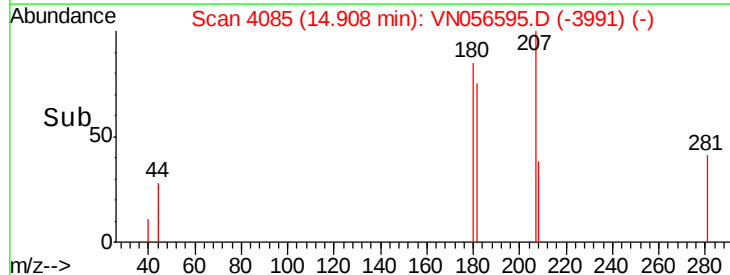
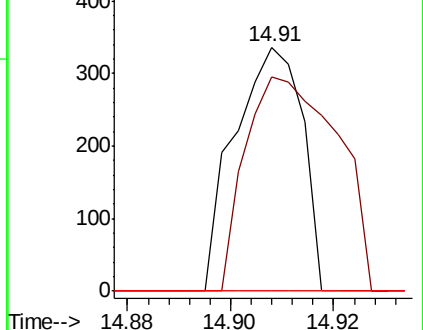
145 0.0 14.4 43.0#

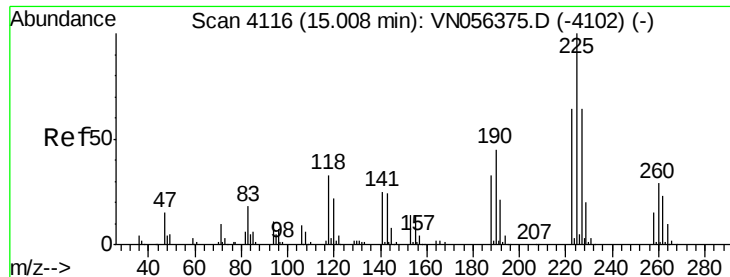


Abundance Ion 179.80 (179.50 to 180.50): VN056375.D (-4071) (-)

Ion 181.80 (181.50 to 182.50): VN056375.D (-4071) (-)

Ion 144.80 (144.50 to 145.50): VN056375.D (-4071) (-)





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4118

Delta R.T. 0.01 min

Lab File: VN056595.D

Acq: 3 Jul 2019 19:24

Instrument :

MSVOA_N

ClientSampleId :

MW-2RDL

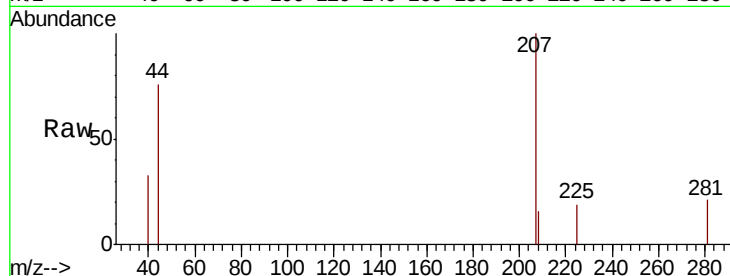
Tot Ion:225 Resp: 67

Ion Ratio Lower Upper

225 100

223 0.0 31.4 94.3#

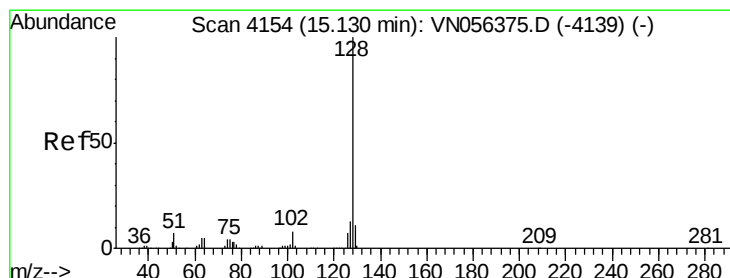
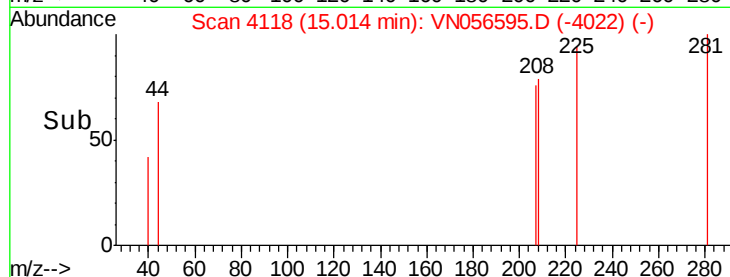
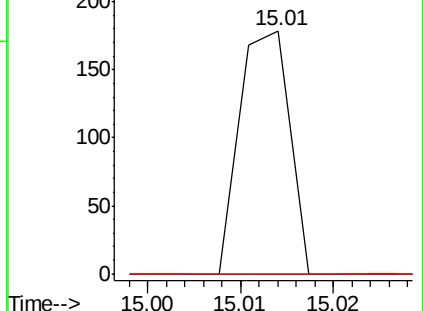
227 0.0 32.1 96.3#



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: 5.366 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056595.D

Acq: 3 Jul 2019 19:24

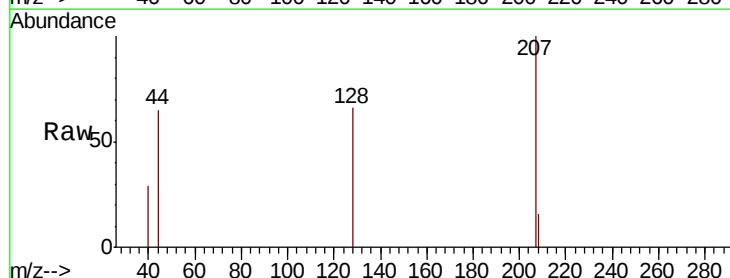
Tgt Ion:128 Resp: 1186

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

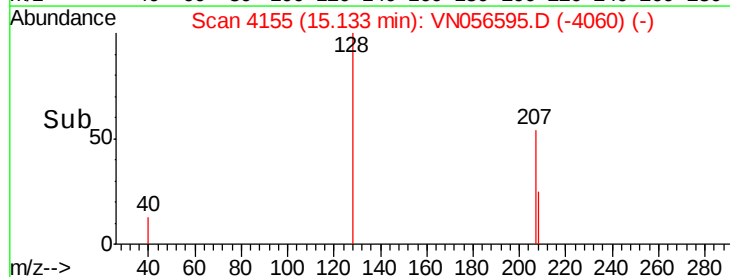
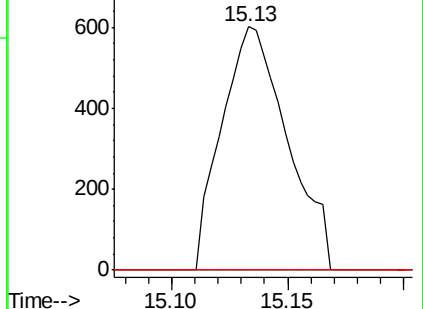
129 0.0 8.6 12.8#

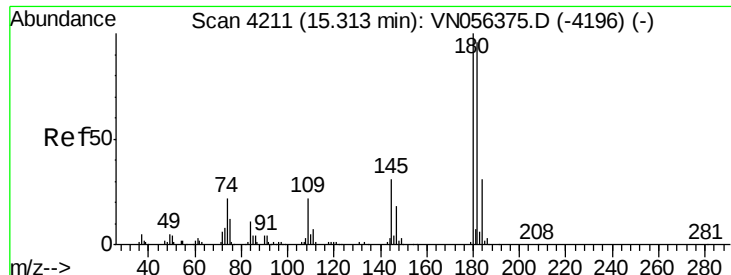


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

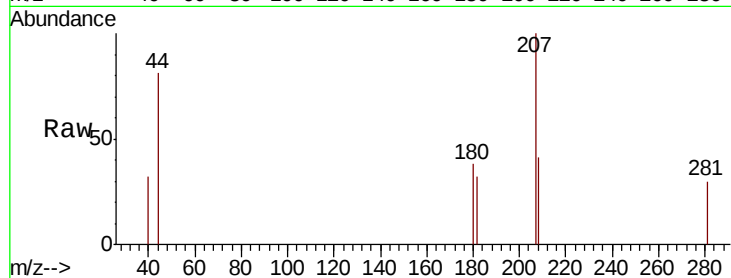




#96
 1,2,3-Trichlorobenzene
 Concen: 4.553 ug/l
 RT: 15.31 min Scan# 4209
 Delta R.T. -0.01 min
 Lab File: VN056595.D
 Acq: 3 Jul 2019 19:24

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2RDL

Tot Ion	Ratio	Lower	Upper
180	100		
182	119.4	48.3	144.8
145	0.0	15.4	46.1



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

