

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062019\
 Data File : VN056390.D
 Acq On : 20 Jun 2019 10:21
 Operator : JC/SP
 Sample : VN0620WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 21 04:23:50 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	7.66	168	372766	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	628124	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	620384	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	189298	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	208956	50.58	ug/l	0.00
Spiked Amount			Recovery	=	101.16%	
35) Dibromofluoromethane	7.59	113	183552	46.84	ug/l	0.00
Spiked Amount			Recovery	=	93.68%	
50) Toluene-d8	10.09	98	775906	50.89	ug/l	0.00
Spiked Amount			Recovery	=	101.78%	
62) 4-Bromofluorobenzene	12.40	95	256548	50.47	ug/l	0.00
Spiked Amount			Recovery	=	100.94%	

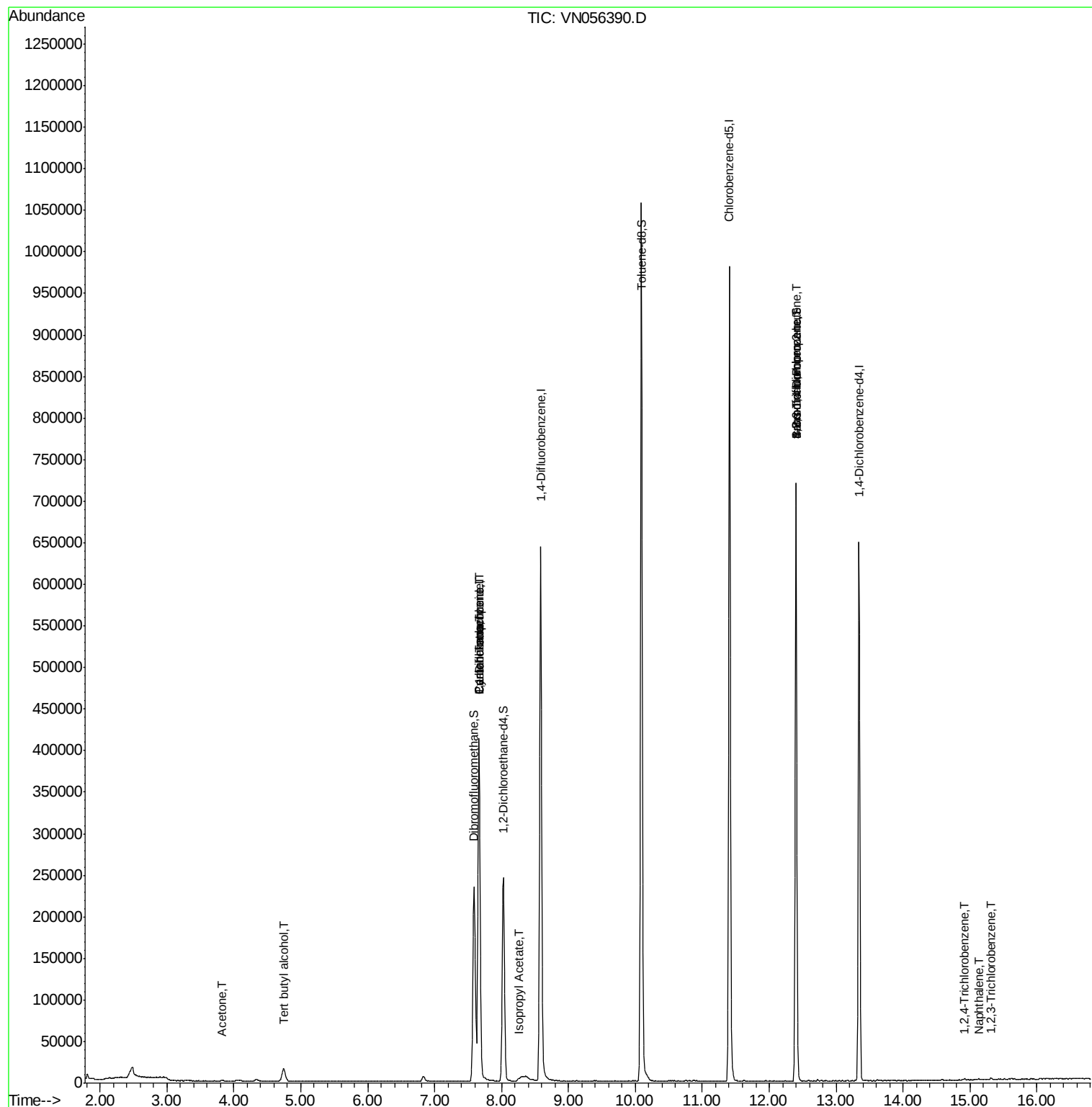
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	14545	20.903	ug/l #	74
16) Acetone	3.83	43	1711	0.827	ug/l	100
18) Methyl Acetate	4.33	43	2196	Below Cal	#	83
31) Cyclohexane	7.66	56	6184	0.969	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	24128	4.364	ug/l #	49
38) Carbon Tetrachloride	7.66	117	32314	6.684	ug/l #	15
43) Isopropyl Acetate	8.26	43	2351	0.281	ug/l #	54
71) Bromoform	12.40	173	1967	3.685	ug/l #	1
73) Isopropylbenzene	12.25	105	362	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	118327	30.146	ug/l #	100
79) 2-Chlorotoluene	12.67	91	260	Below Cal	#	40
80) 1,3,5-Trimethylbenzene	12.73	105	296	Below Cal	#	28
81) trans-1,4-Dichloro-2-buten	12.40	75	118327	107.143	ug/l #	8
83) tert-Butylbenzene	12.98	119	271	Below Cal	#	28
93) 1,2,4-Trichlorobenzene	14.91	180	690	5.799	ug/l	86
95) Naphthalene	15.13	128	1833	5.434	ug/l #	72
96) 1,2,3-Trichlorobenzene	15.31	180	961	4.736	ug/l #	87

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056390.D

Acq: 20 Jun 2019 10:21

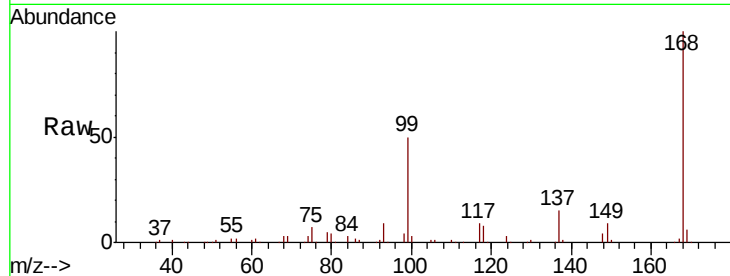
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 372766

Ion Ratio Lower Upper

168 100

99 50.3 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

150000

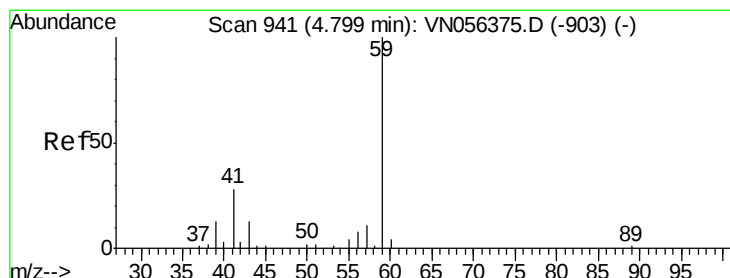
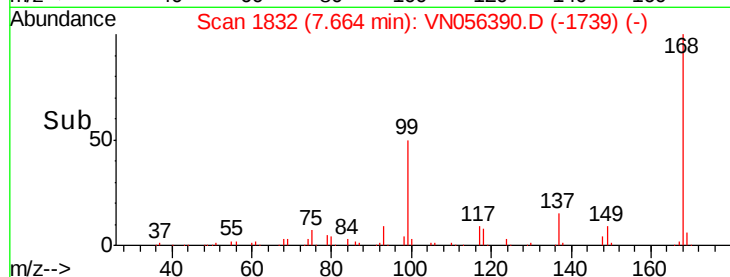
100000

50000

0

Time-->

7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 20.903 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.05 min

Lab File: VN056390.D

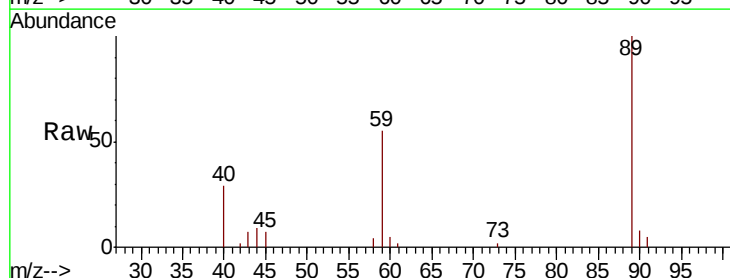
Acq: 20 Jun 2019 10:21

Tgt Ion: 59 Resp: 14545

Ion Ratio Lower Upper

59 100

57 0.0 7.6 11.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.74

4000

3000

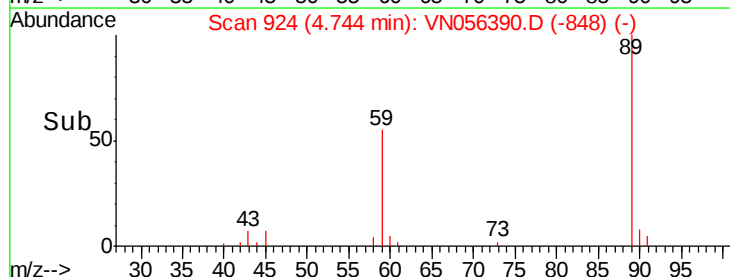
2000

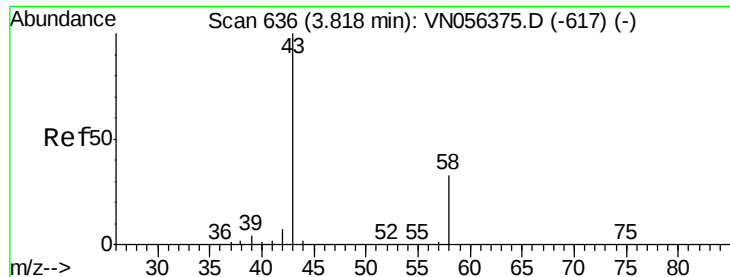
1000

0

Time-->

4.70 4.80





#16

Acetone

Concen: 0.827 ug/l

RT: 3.83 min Scan# 640

Delta R.T. 0.01 min

Lab File: VN056390.D

Acq: 20 Jun 2019 10:21

Instrument :

MSVOA_N

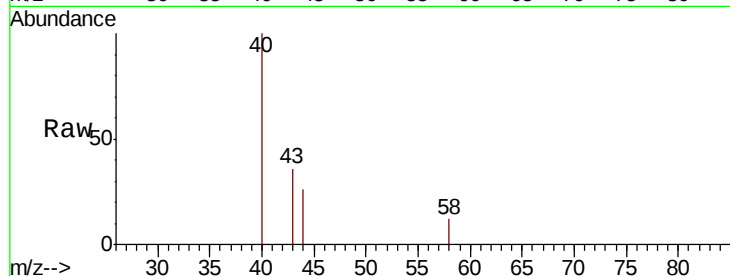
ClientSampled :

Tot Ion: 43 Resp: 1711

Ion Ratio Lower Upper

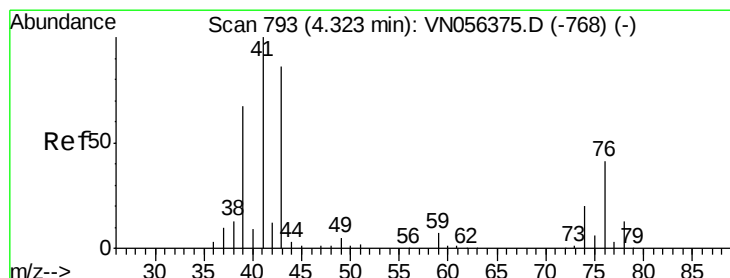
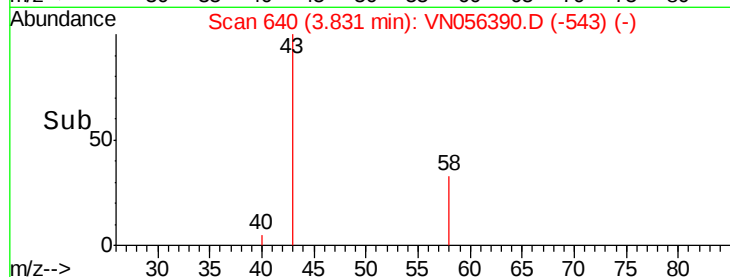
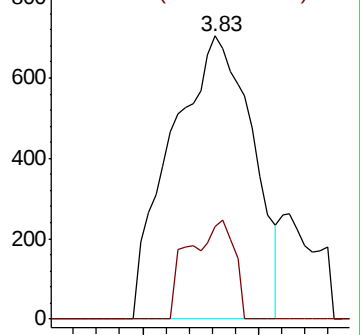
43 100

58 32.8 26.4 39.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 795

Delta R.T. 0.01 min

Lab File: VN056390.D

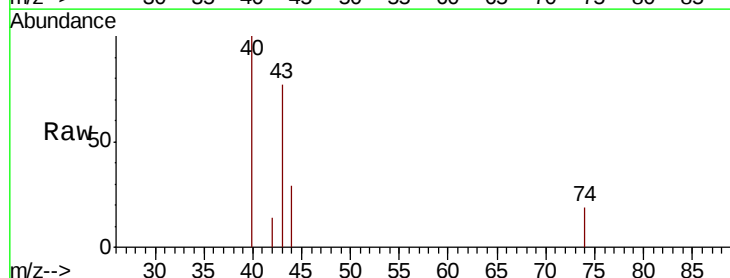
Acq: 20 Jun 2019 10:21

Tgt Ion: 43 Resp: 2196

Ion Ratio Lower Upper

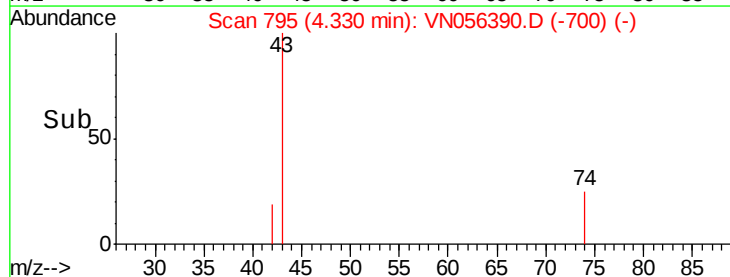
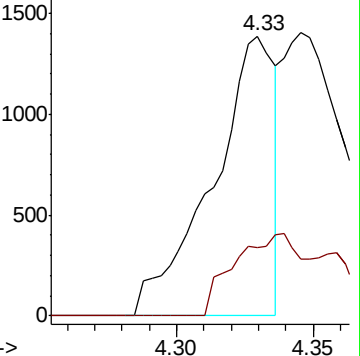
43 100

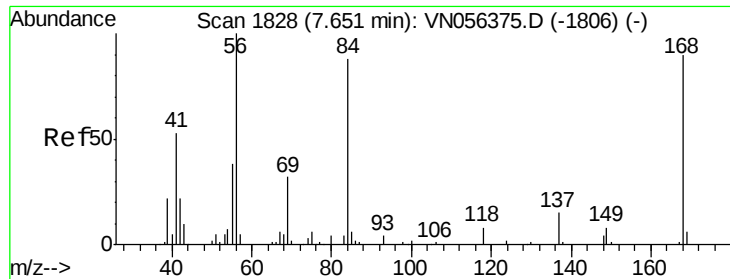
74 32.2 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

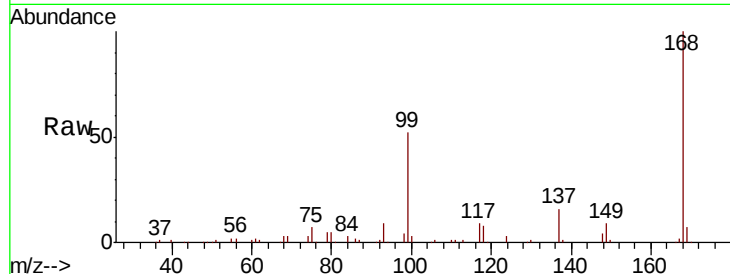




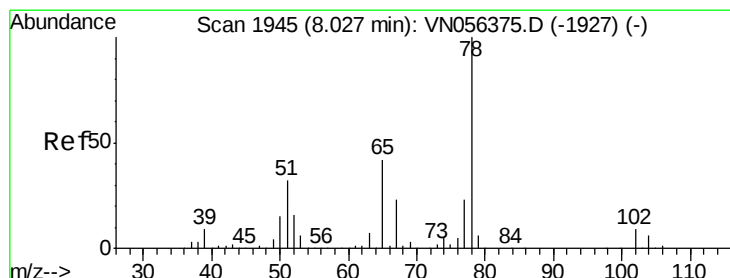
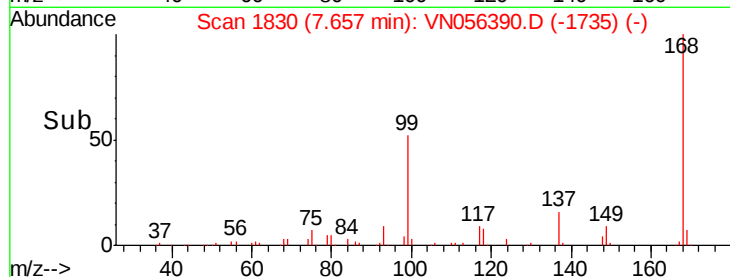
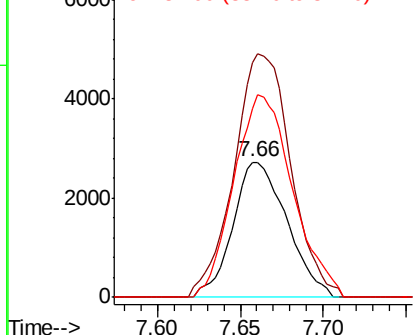
#31
Cyclohexane
Concen: 0.969 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN056390.D
Acq: 20 Jun 2019 10:21

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 6184
Ion Ratio Lower Upper
56 100
69 173.1 25.8 38.6#
84 139.2 69.4 104.0#

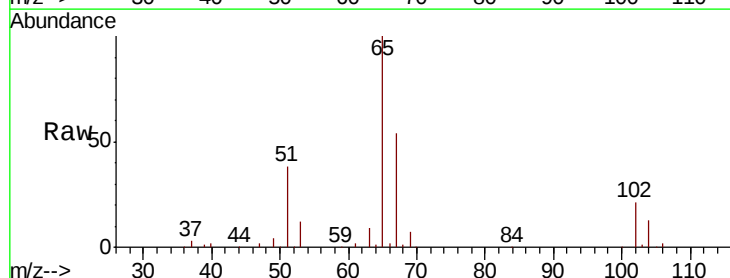


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

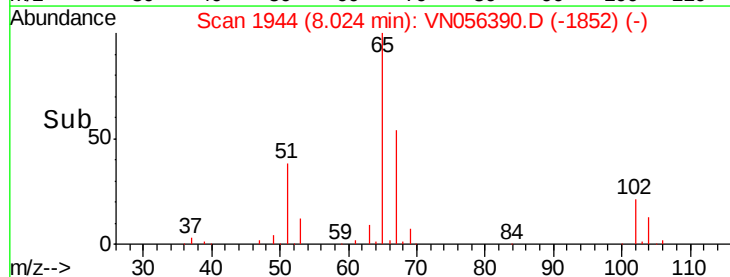
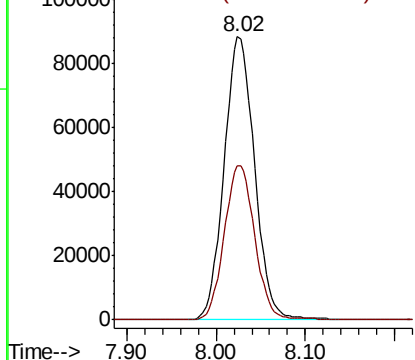


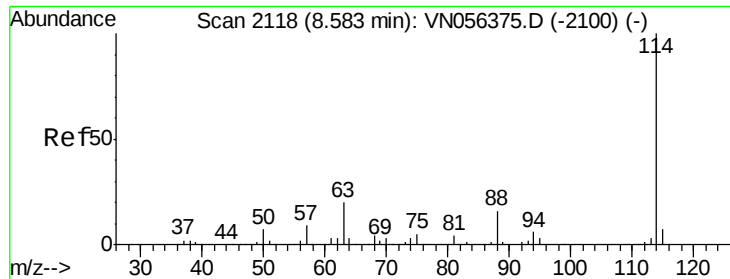
#33
1,2-Dichloroethane-d4
Concen: 50.578 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. -0.00 min
Lab File: VN056390.D
Acq: 20 Jun 2019 10:21

Tgt Ion: 65 Resp: 208956
Ion Ratio Lower Upper
65 100
67 54.5 0.0 109.0



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

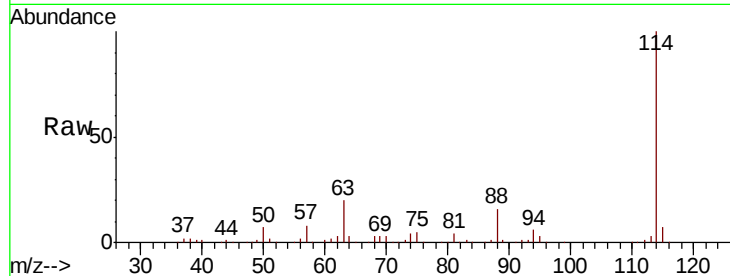




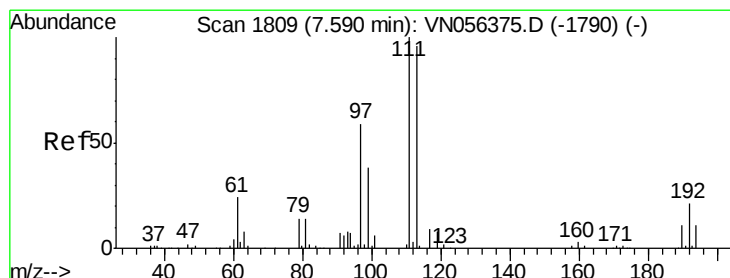
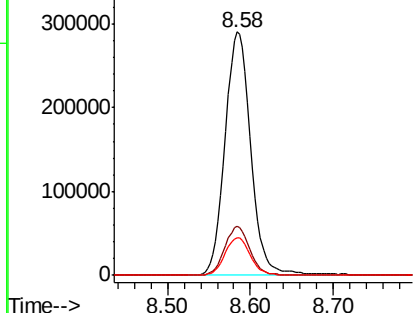
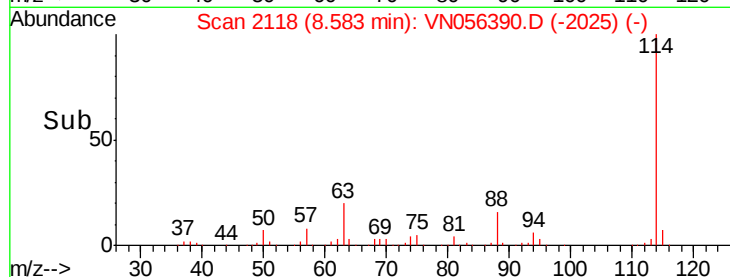
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056390.D
 Acq: 20 Jun 2019 10:21

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	39.2
88	15.7	0.0	31.4

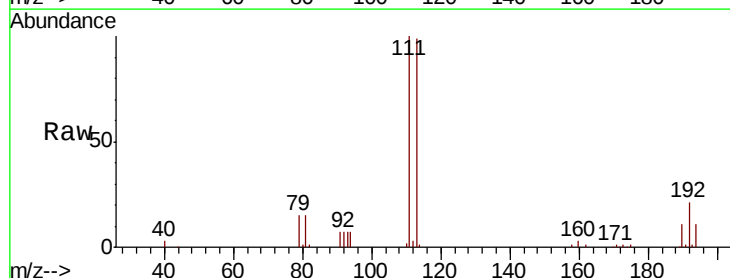


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

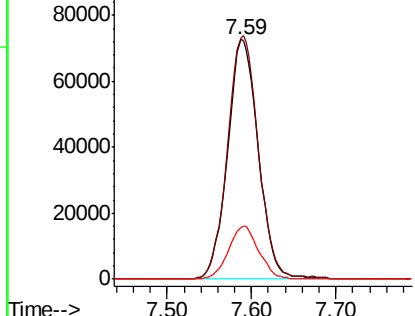
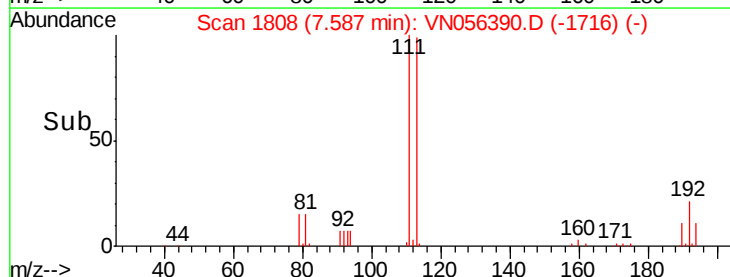


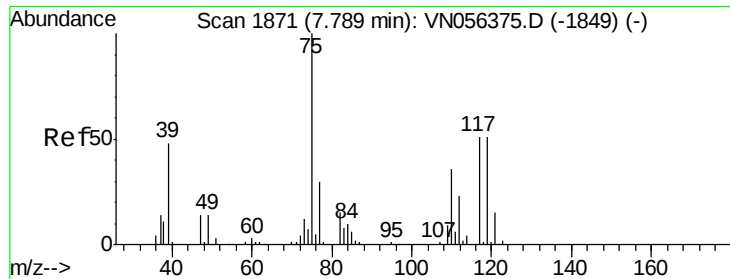
#35
 Dibromofluoromethane
 Concen: 46.843 ug/l
 RT: 7.59 min Scan# 1808
 Delta R.T. -0.00 min
 Lab File: VN056390.D
 Acq: 20 Jun 2019 10:21

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.0	82.9	124.3
192	21.9	17.7	26.5



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

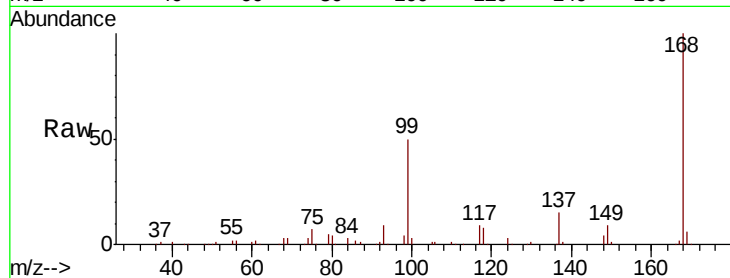




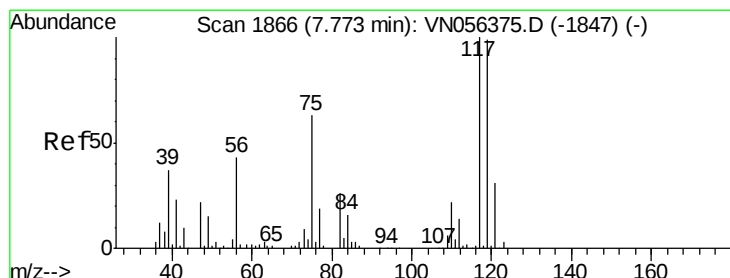
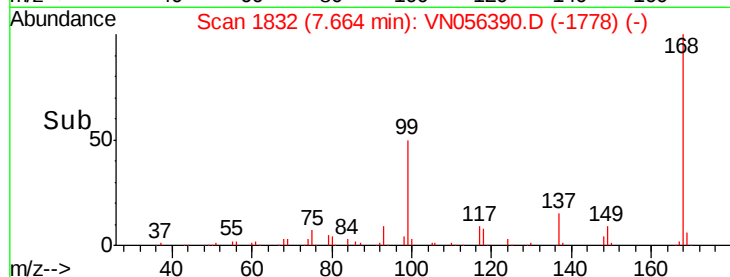
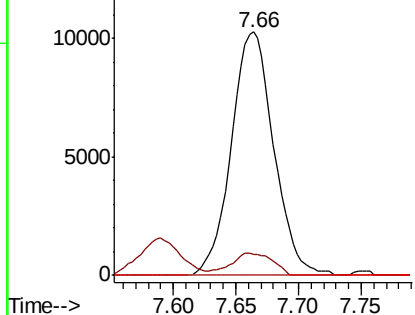
#36
 1,1-Dichloropropene
 Concen: 4.364 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056390.D
 Acq: 20 Jun 2019 10:21

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	75	Resp	24128
Ion Ratio	Lower	Upper	
75	100		
110	8.9	18.1	54.3#
77	0.0	24.6	36.8#

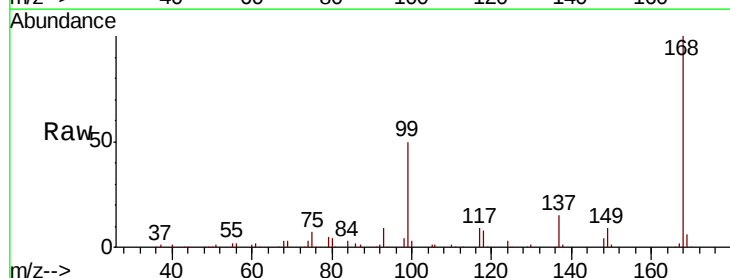


Abundance Ion 74.90 (74.60 to 75.60): VN056375.D (-1849) (-)
 Ion 109.90 (109.60 to 110.60): VN056375.D (-1849) (-)
 Ion 76.90 (76.60 to 77.60): VN056375.D (-1849) (-)

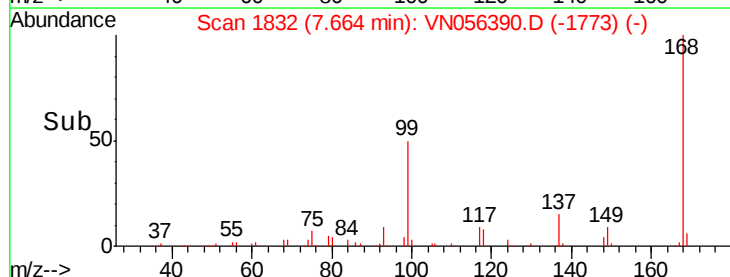
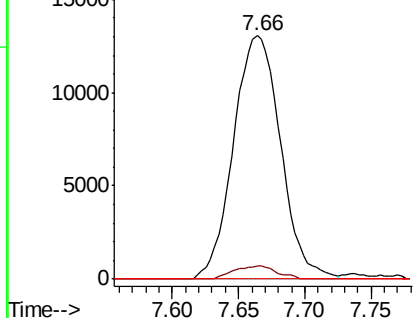


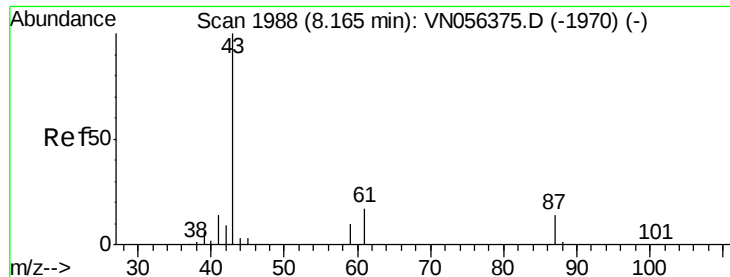
#38
 Carbon Tetrachloride
 Concen: 6.684 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN056390.D
 Acq: 20 Jun 2019 10:21

Tgt Ion	117	Resp	32314
Ion Ratio	Lower	Upper	
117	100		
119	5.2	79.1	118.7#
121	0.0	24.8	37.2#



Abundance Ion 116.80 (116.50 to 117.50): VN056375.D (-1847) (-)
 Ion 118.80 (118.50 to 119.50): VN056375.D (-1847) (-)
 Ion 120.80 (120.50 to 121.50): VN056375.D (-1847) (-)





#43

Isopropyl Acetate

Concen: 0.281 ug/l

RT: 8.26 min Scan# 2016

Delta R.T. 0.09 min

Lab File: VN056390.D

Acq: 20 Jun 2019 10:21

Instrument :

MSVOA_N

ClientSampled :

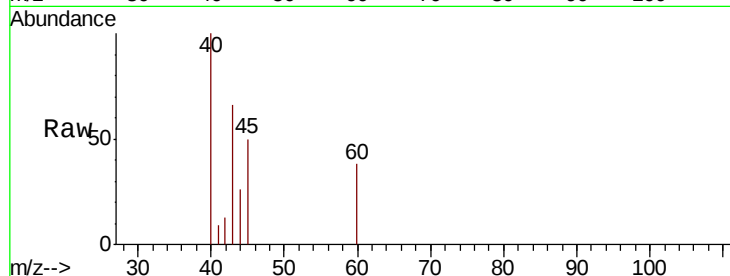
Tot Ion: 43 Resp: 2351

Ion Ratio Lower Upper

43 100

61 0.0 22.0 33.0#

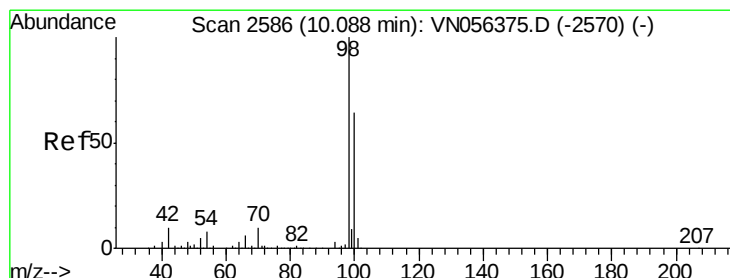
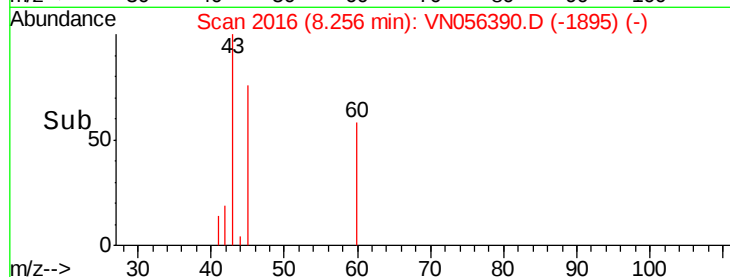
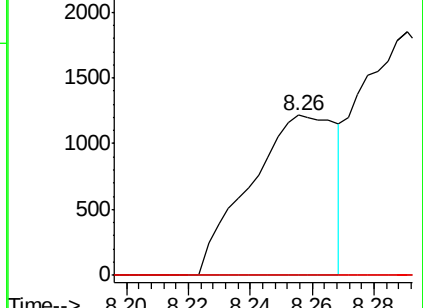
87 0.0 11.0 16.4#



Abundance Ion 43.00 (42.70 to 43.70): VN056375.D (-1970) (-)

Ion 61.00 (60.70 to 61.70): VN056375.D (-1970) (-)

Ion 87.00 (86.70 to 87.70): VN056375.D (-1970) (-)



#50

Toluene-d8

Concen: 50.889 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056390.D

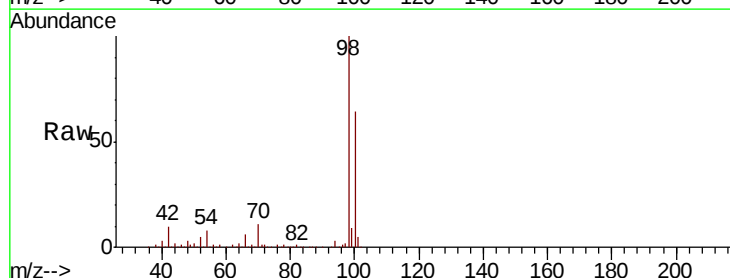
Acq: 20 Jun 2019 10:21

Tgt Ion: 98 Resp: 775906

Ion Ratio Lower Upper

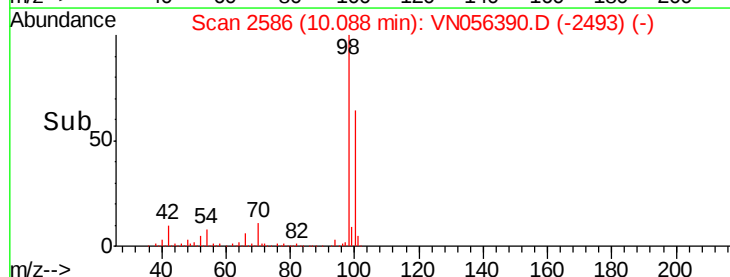
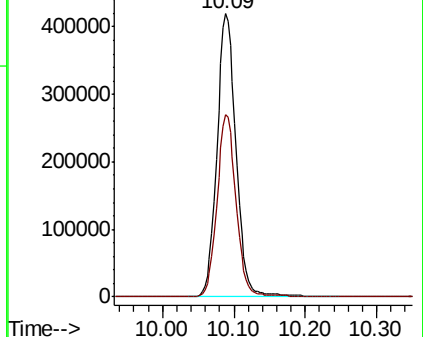
98 100

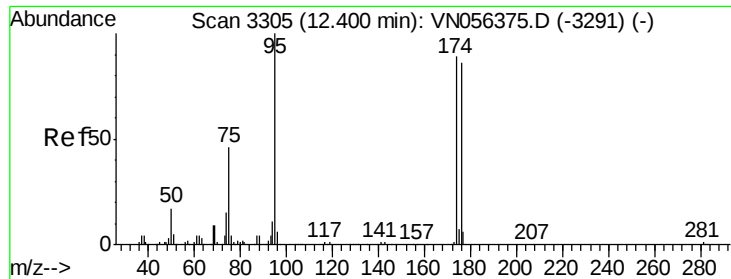
100 64.4 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN056375.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN056375.D (-2570) (-)





#62

4-Bromofluorobenzene

Concen: 50.475 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056390.D

Acq: 20 Jun 2019 10:21

Instrument :

MSVOA_N

ClientSampleId :

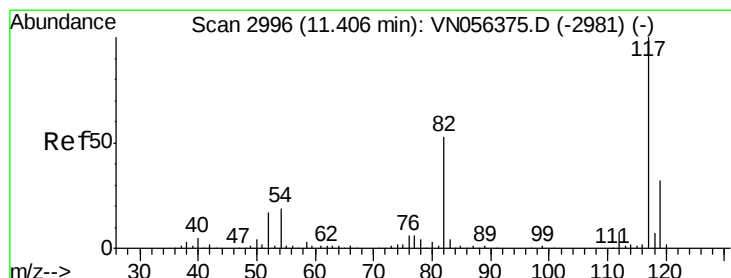
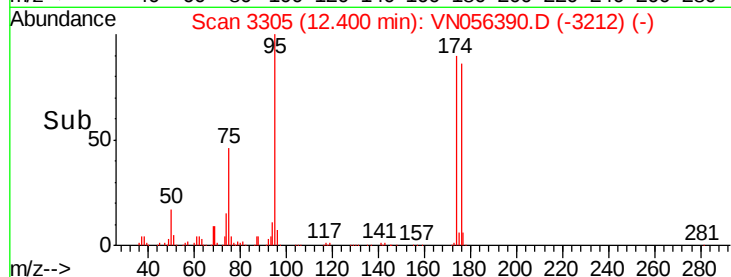
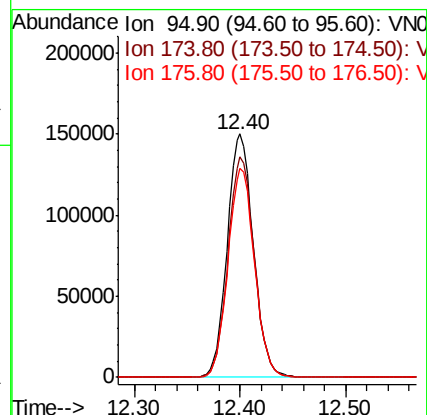
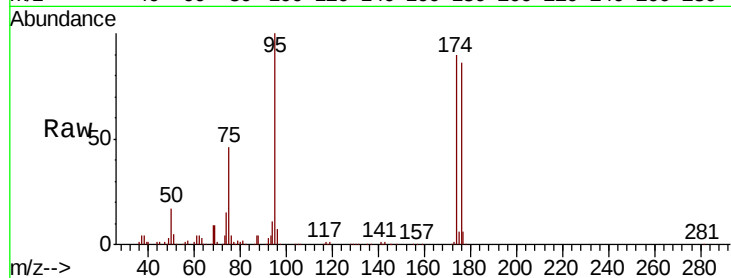
Tot Ion: 95 Resp: 256548

Ion Ratio Lower Upper

95 100

174 91.2 0.0 179.4

176 87.2 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: VN056390.D

Acq: 20 Jun 2019 10:21

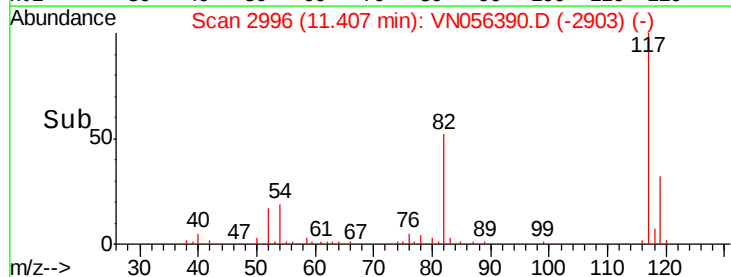
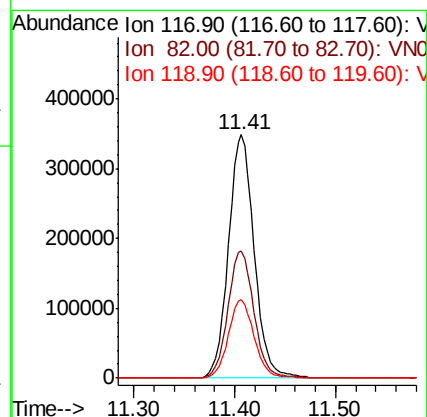
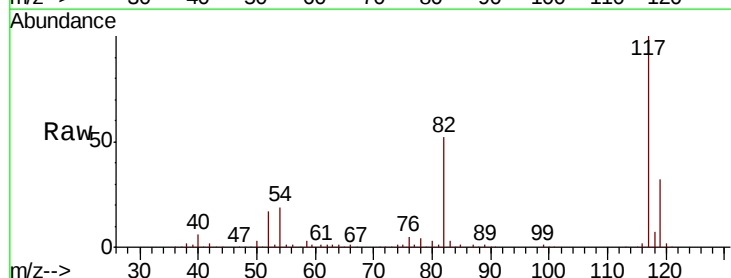
Tgt Ion: 117 Resp: 620384

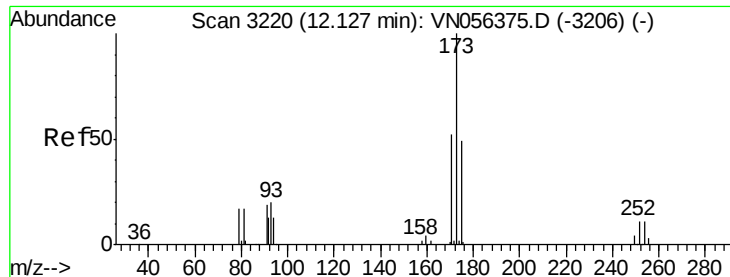
Ion Ratio Lower Upper

117 100

82 52.3 42.0 63.0

119 32.0 25.3 37.9





#71

Bromoform

Concen: 3.685 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN056390.D

Acq: 20 Jun 2019 10:21

Instrument :

MSVOA_N

ClientSampleId :

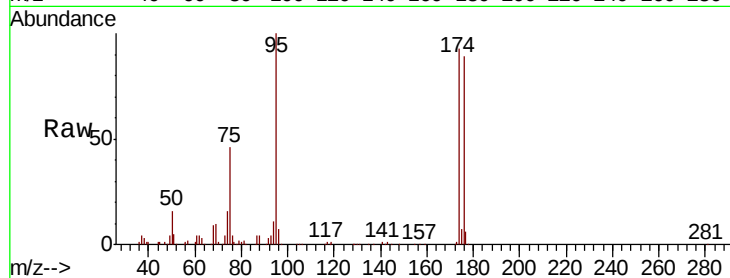
Tot Ion:173 Resp: 1967

Ion Ratio Lower Upper

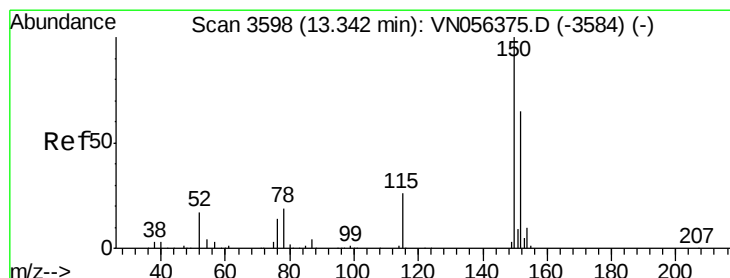
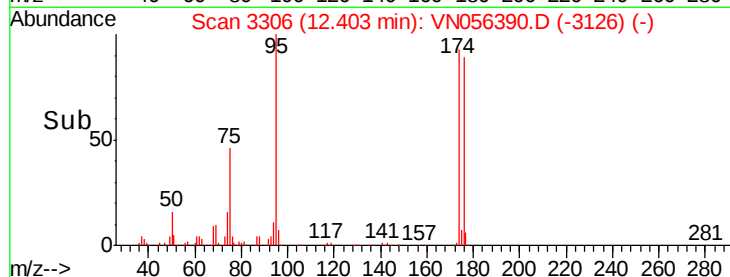
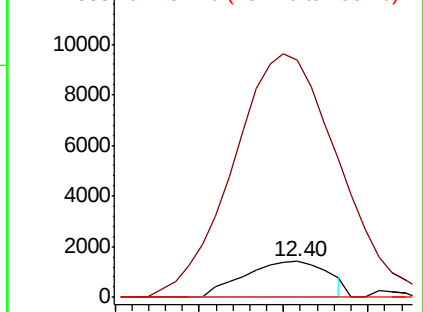
173 100

175 744.4 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: VN056390.D

Acq: 20 Jun 2019 10:21

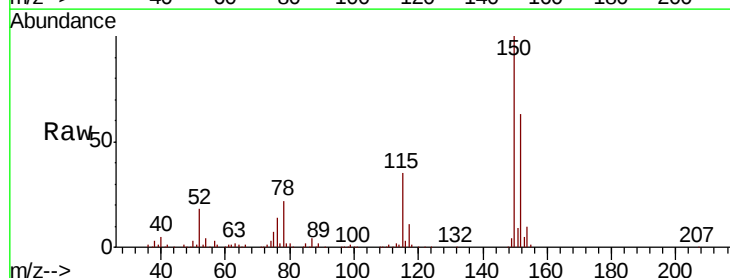
Tgt Ion:152 Resp: 189298

Ion Ratio Lower Upper

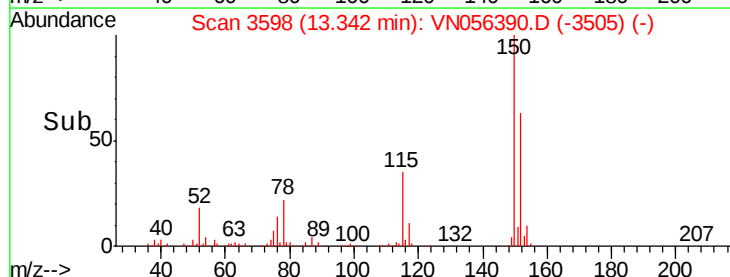
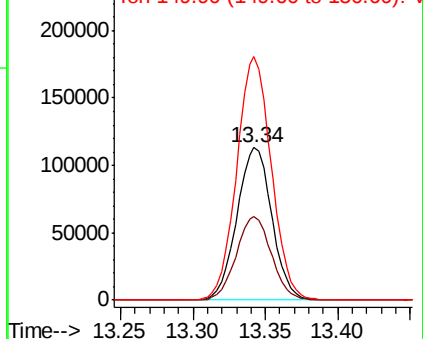
152 100

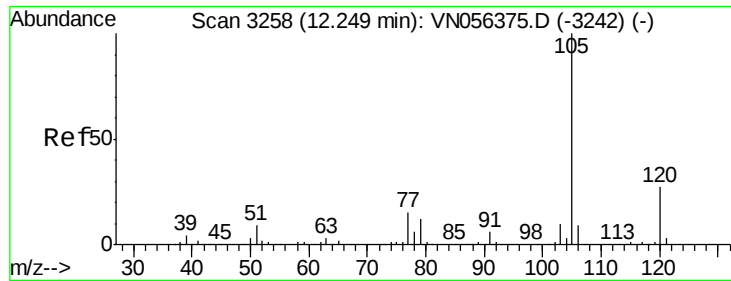
115 55.0 28.1 84.4

150 158.2 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# 3257

Delta R.T. -0.00 min

Lab File: VN056390.D

Acq: 20 Jun 2019 10:21

Instrument :

MSVOA_N

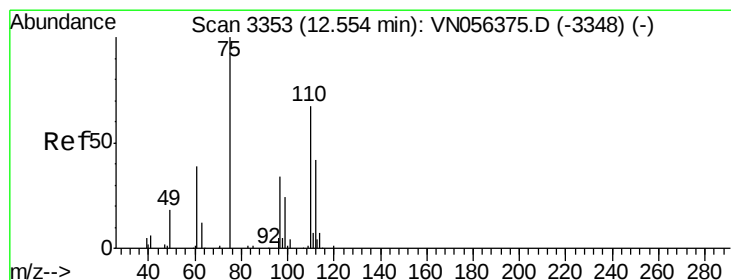
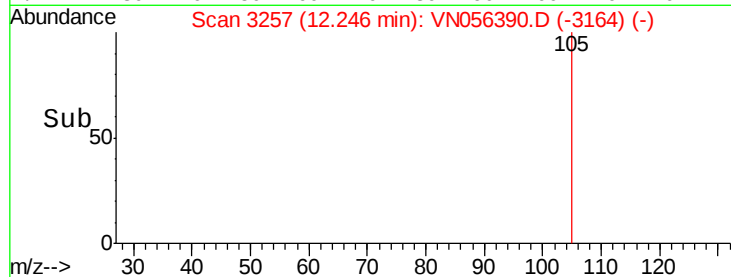
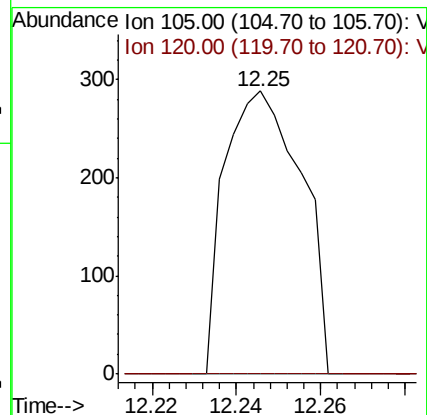
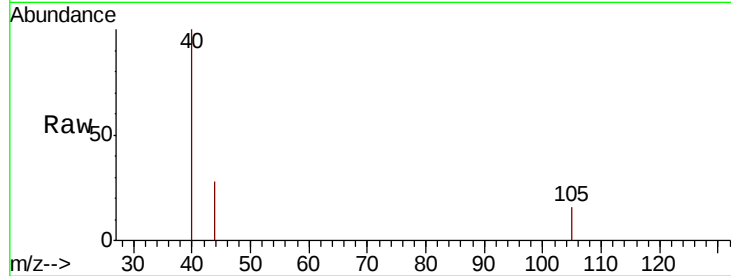
ClientSampleId :

Tot Ion:105 Resp: 362

Ion Ratio Lower Upper

105 100

120 0.0 13.4 40.2#



#76

1,2,3-Trichloropropane

Concen: 30.146 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056390.D

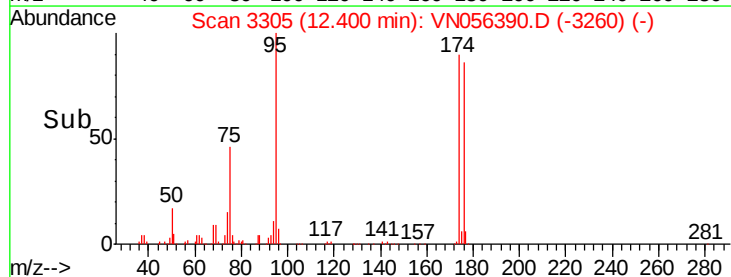
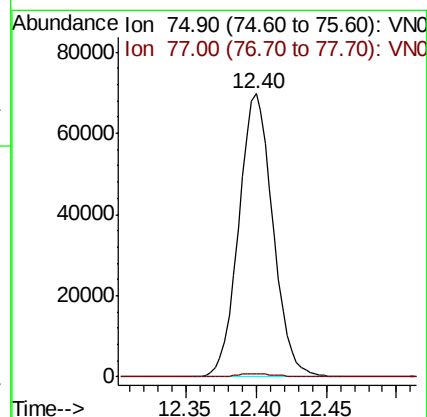
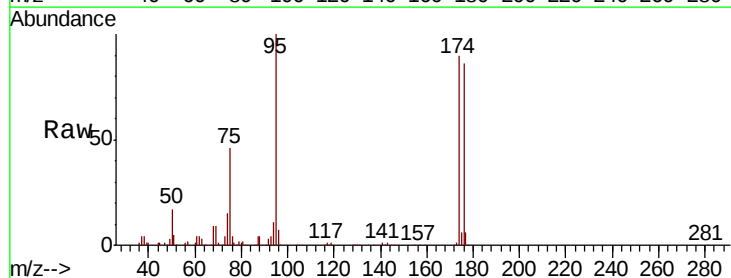
Acq: 20 Jun 2019 10:21

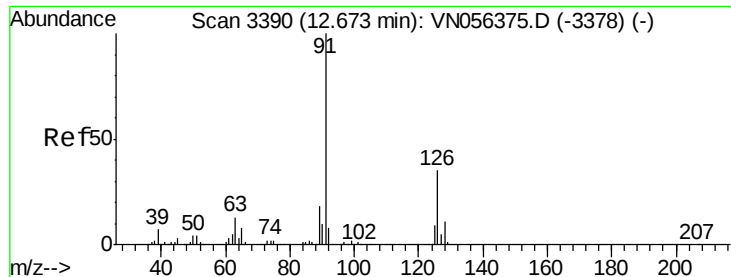
Tgt Ion: 75 Resp: 118327

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN056390.D

Acq: 20 Jun 2019 10:21

Instrument :

MSVOA_N

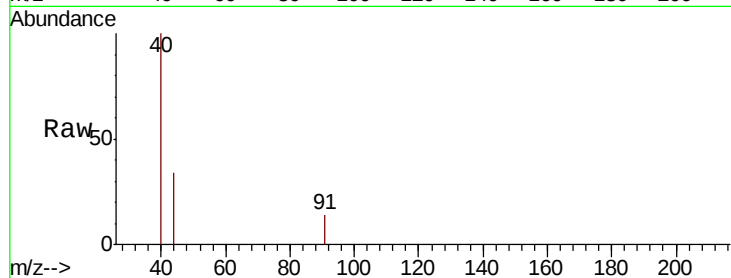
ClientSampleId :

Tot Ion: 91 Resp: 260

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) (-)

12.67

250

200

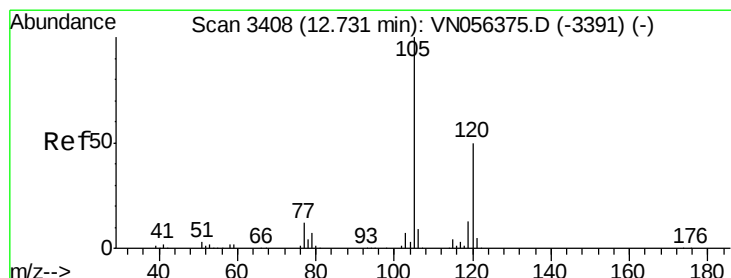
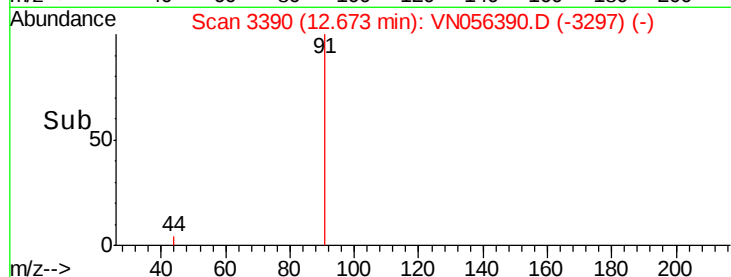
150

100

50

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN056390.D

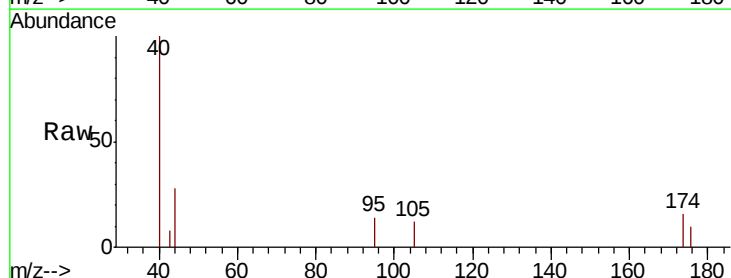
Acq: 20 Jun 2019 10:21

Tgt Ion: 105 Resp: 296

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) (-)

12.73

250

200

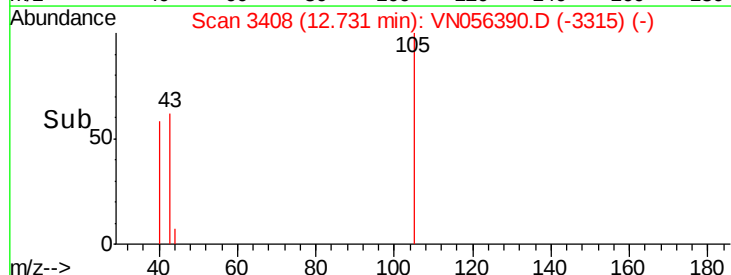
150

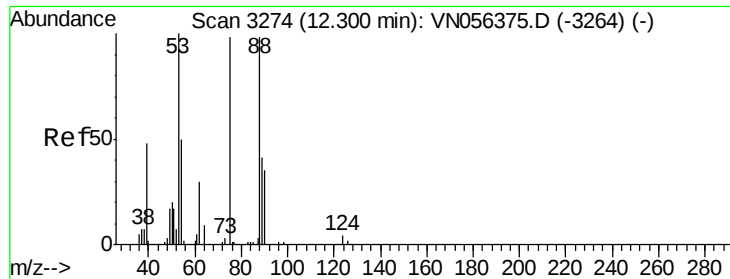
100

50

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 107.143 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056390.D

Acq: 20 Jun 2019 10:21

Instrument :

MSVOA_N

ClientSampleId :

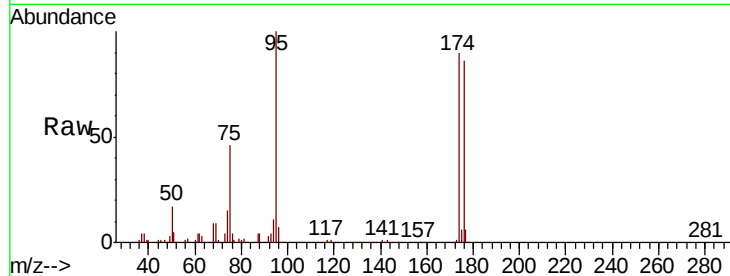
Tot Ion: 75 Resp: 118327

Ion Ratio Lower Upper

75 100

53 0.0 83.9 125.9#

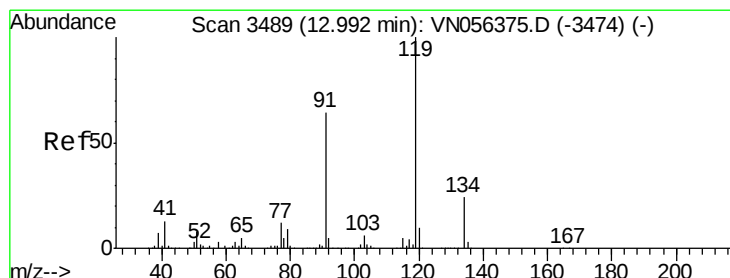
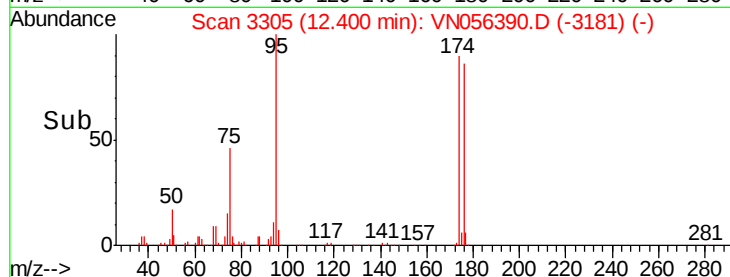
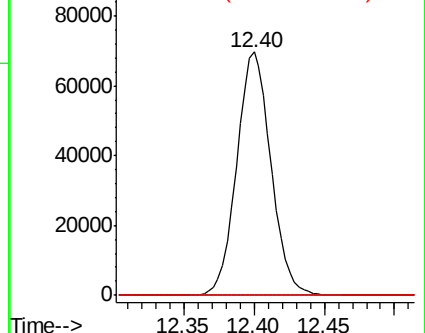
89 0.0 35.0 52.6#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.98 min Scan# 3486

Delta R.T. -0.01 min

Lab File: VN056390.D

Acq: 20 Jun 2019 10:21

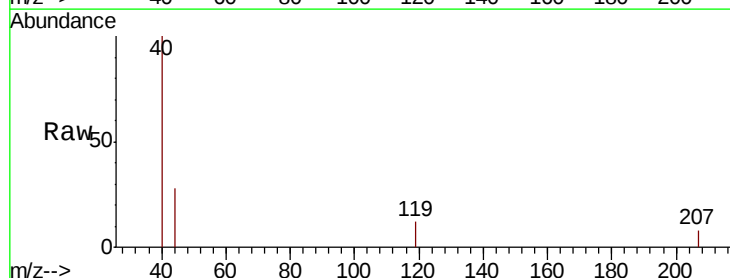
Tgt Ion: 119 Resp: 271

Ion Ratio Lower Upper

119 100

91 0.0 31.6 94.7#

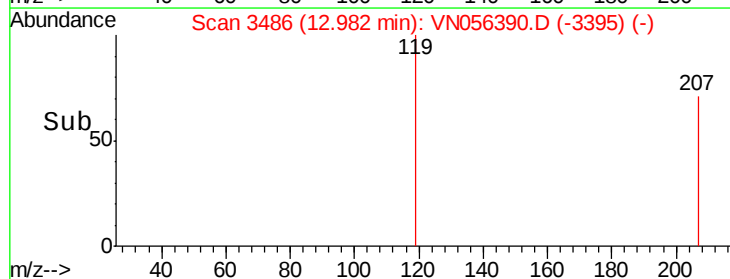
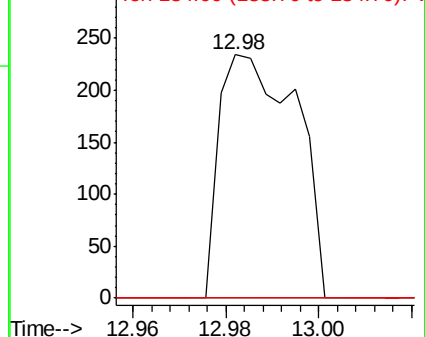
134 0.0 13.2 39.5#

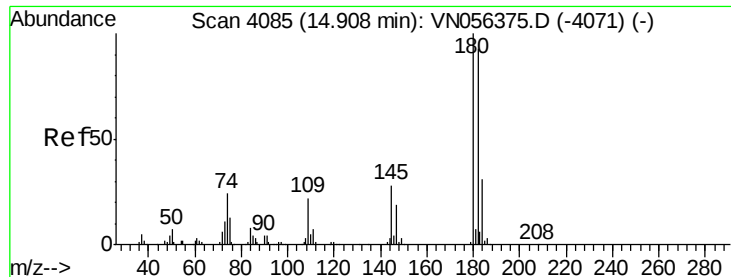


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN0

Ion 134.00 (133.70 to 134.70): V





#93

1,2,4-Trichlorobenzene

Concen: 5.799 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.01 min

Lab File: VN056390.D

Acq: 20 Jun 2019 10:21

Instrument :

MSVOA_N

ClientSampled :

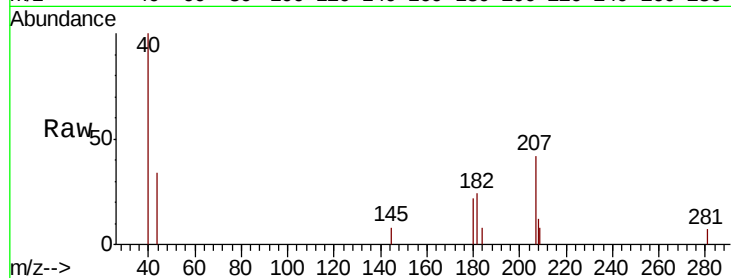
Tot Ion:180 Resp: 690

Ion Ratio Lower Upper

180 100

182 108.7 46.9 140.6

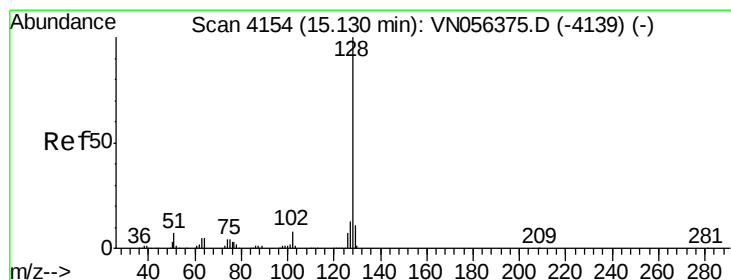
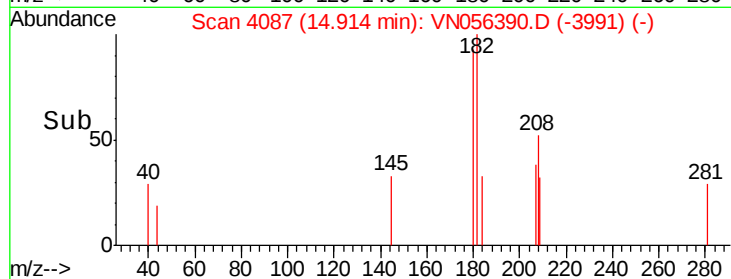
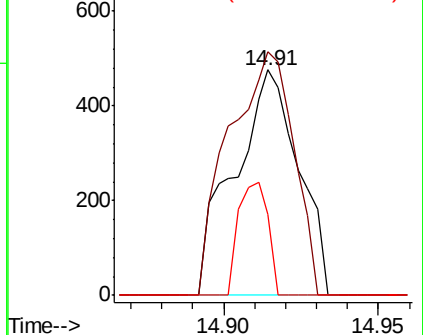
145 22.9 14.4 43.0



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: 5.434 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056390.D

Acq: 20 Jun 2019 10:21

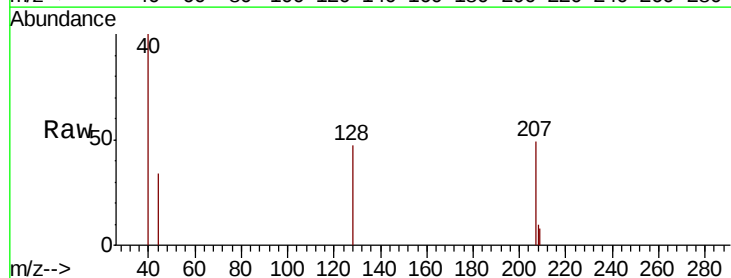
Tgt Ion:128 Resp: 1833

Ion Ratio Lower Upper

128 100

127 1.6 10.2 15.2#

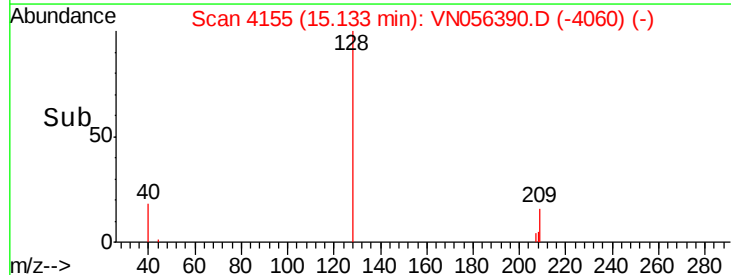
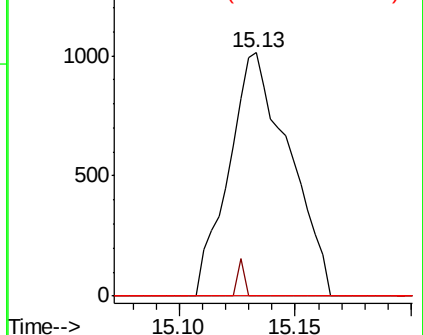
129 0.0 8.6 12.8#

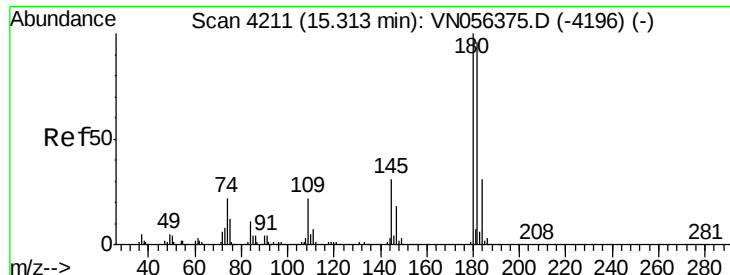


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

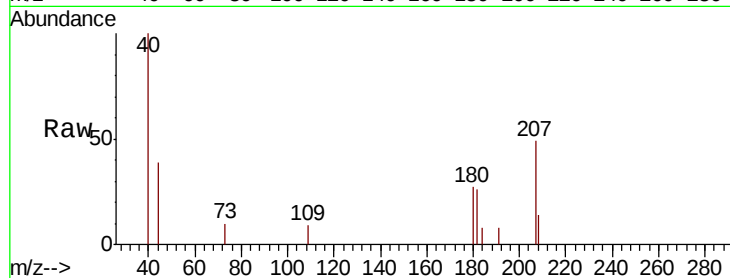




#96
 1,2,3-Trichlorobenzene
 Concen: 4.736 ug/l
 RT: 15.31 min Scan# 4210
 Delta R.T. -0.00 min
 Lab File: VN056390.D
 Acq: 20 Jun 2019 10:21

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	99.5	48.3	144.8
145	6.9	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

