

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070419\
 Data File : VN056592.D
 Acq On : 3 Jul 2019 18:15
 Operator : JC/SP
 Sample : K3680-08RE
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FIELD-BLANK

Quant Time: Jul 03 22:50:53 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	275397	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	472242	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	473475	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	178721	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	158177	51.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.64%	
35) Dibromofluoromethane	7.59	113	138320	46.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.90%	
50) Toluene-d8	10.09	98	591463	51.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.20%	
62) 4-Bromofluorobenzene	12.40	95	208161	54.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.94%	

Target Compounds

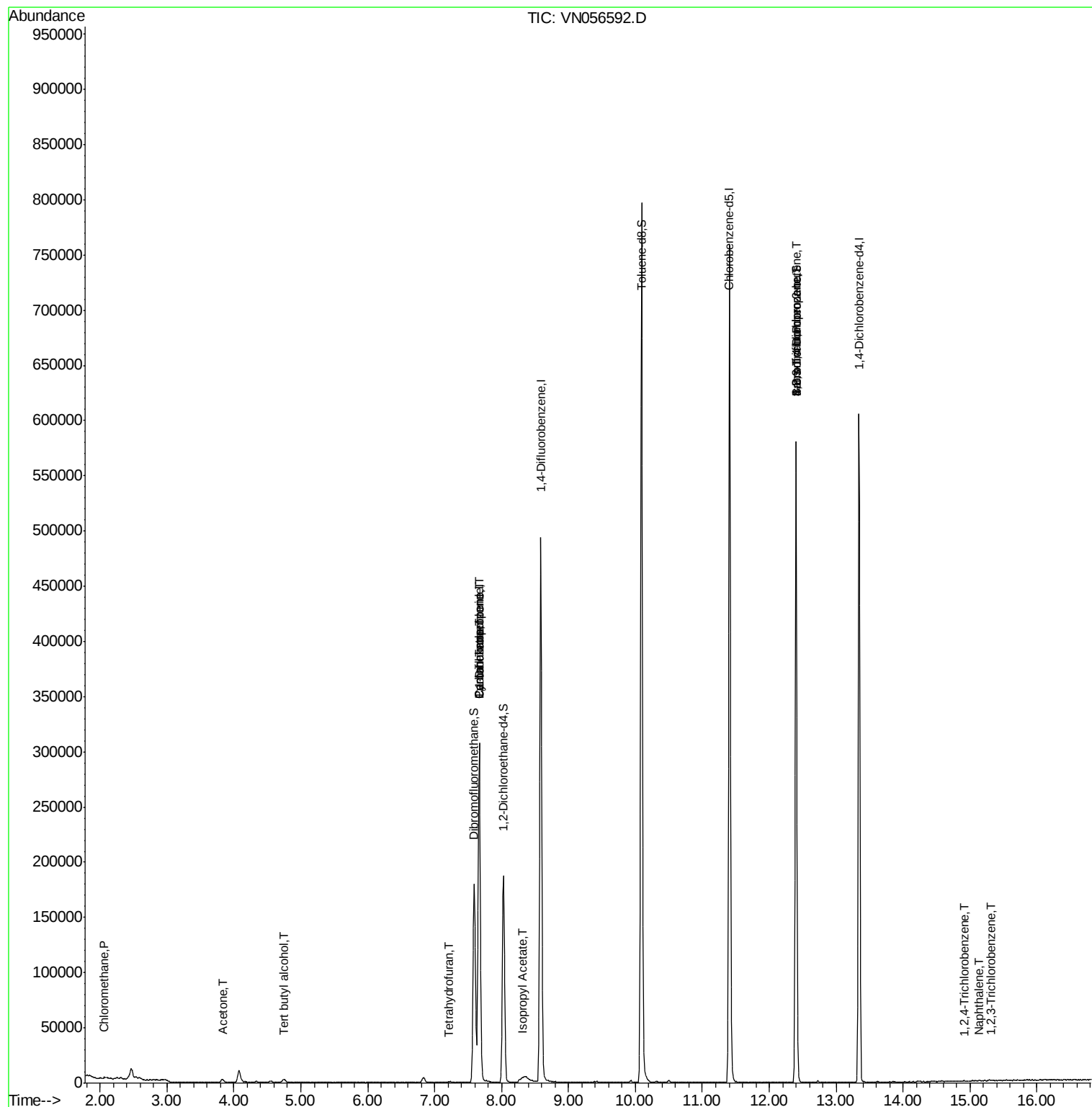
					Qvalue	
3) Chloromethane	2.06	50	878	0.277	ug/l #	42
11) Tert butyl alcohol	4.73	59	1606	3.124	ug/l #	74
16) Acetone	3.83	43	6227	4.072	ug/l	99
18) Methyl Acetate	4.34	43	2287	Below Cal	#	81
20) Methylene Chloride	4.56	84	1113	Below Cal	#	79
29) Tetrahydrofuran	7.22	42	1154	0.933	ug/l #	43
31) Cyclohexane	7.66	56	4564	0.968	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	18033	4.338	ug/l #	48
38) Carbon Tetrachloride	7.67	117	23812	6.551	ug/l #	15
43) Isopropyl Acetate	8.30	43	5165	0.820	ug/l #	54
71) Bromoform	12.40	173	1584	3.715	ug/l #	1
73) Isopropylbenzene	12.40	105	29	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	97009	26.178	ug/l #	100
79) 2-Chlorotoluene	12.59	91	320	Below Cal	#	40
80) 1,3,5-Trimethylbenzene	12.73	105	213	Below Cal	#	28
81) trans-1,4-Dichloro-2-buten	12.40	75	97009	93.039	ug/l #	8
93) 1,2,4-Trichlorobenzene	14.91	180	257	5.687	ug/l #	78
95) Naphthalene	15.13	128	905	5.344	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.32	180	246	4.550	ug/l #	75

(#) = 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: VN056592.D

Acq: 3 Jul 2019 18:15

Instrument :

MSVOA_N

ClientSampleId :

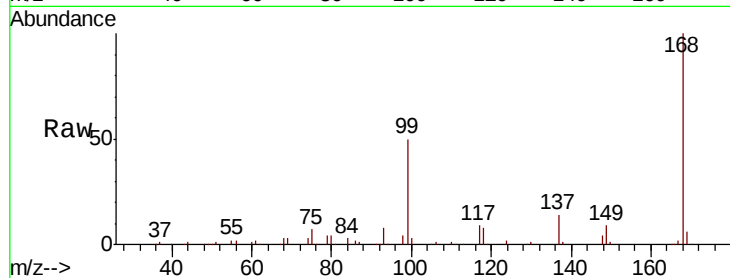
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Tot Ion:168 Resp: 275397

Ion Ratio Lower Upper

168 100

99 50.0 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): VN056375.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN056375.D (-1813) (-)

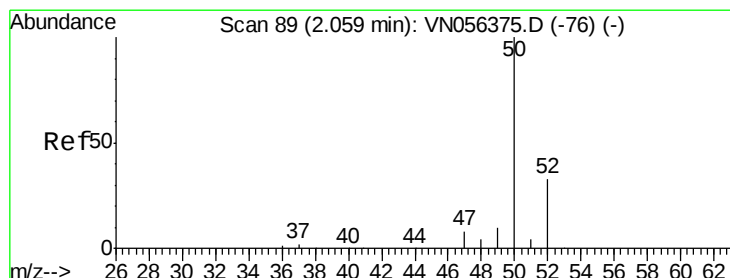
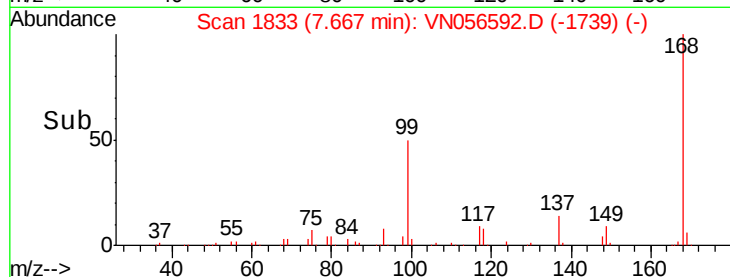
7.67

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.277 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN056592.D

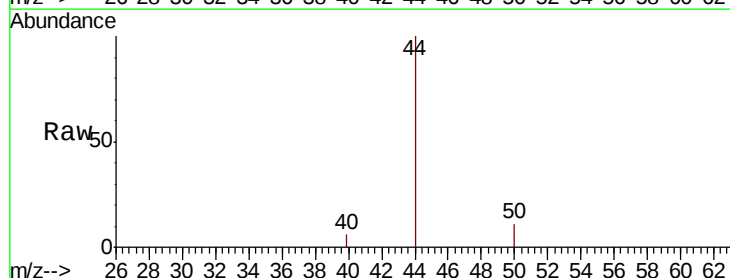
Acq: 3 Jul 2019 18:15

Tgt Ion: 50 Resp: 878

Ion Ratio Lower Upper

50 100

52 0.0 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VN056375.D (-76) (-)

Ion 51.90 (51.60 to 52.60): VN056375.D (-76) (-)

2.06

500

400

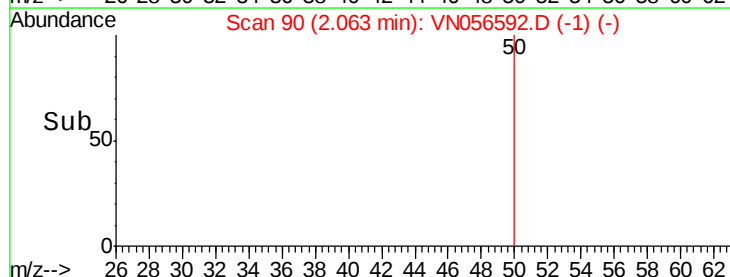
300

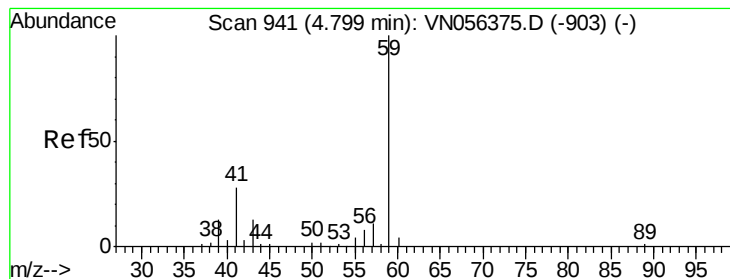
200

100

0

Time-->



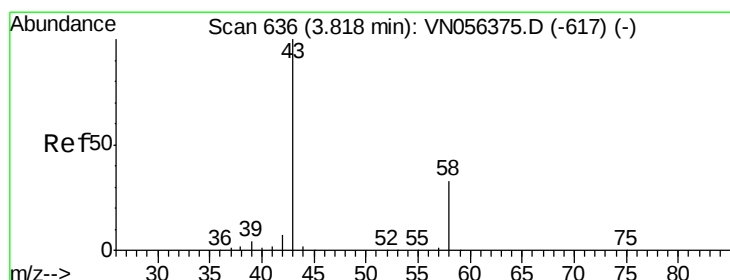
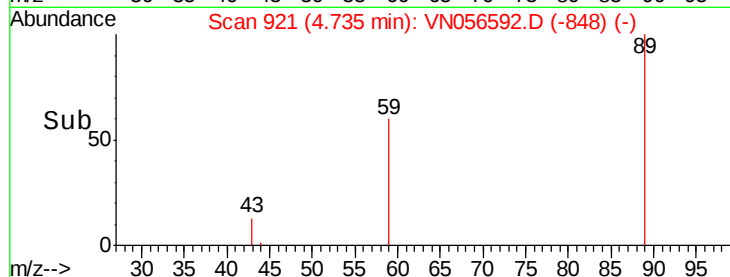
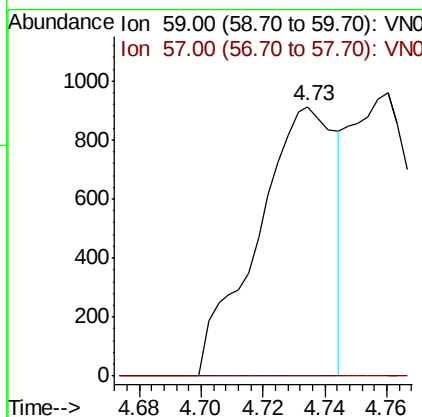
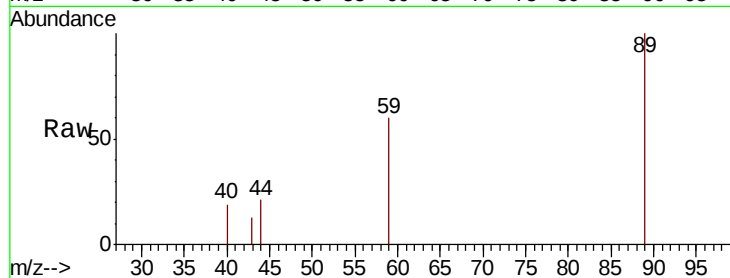


#11

Tert butyl alcohol
 Concen: 3.124 ug/l
 RT: 4.73 min Scan# 921
 Delta R.T. -0.06 min
 Lab File: VN056592.D
 Acq: 3 Jul 2019 18:15

Instrument :
 MSVOA_N
 ClientSampled :
 FIELD-BLANK

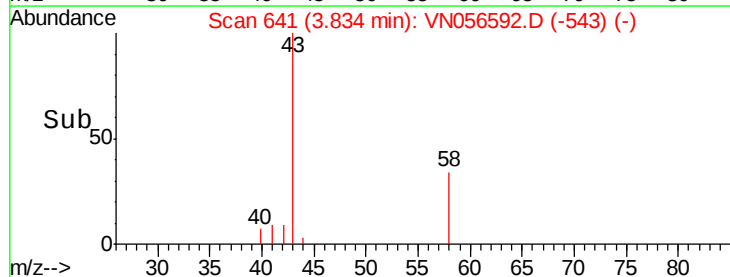
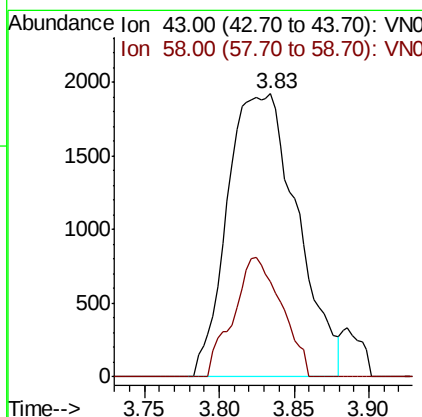
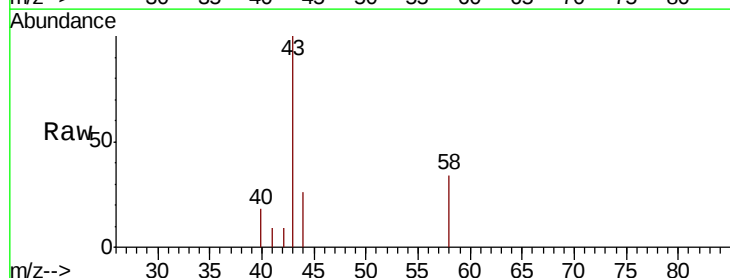
Tot Ion: 59 Resp: 1606
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.6 11.4#

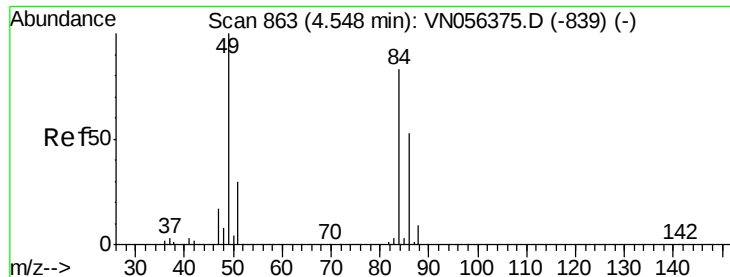


#16

Acetone
 Concen: 4.072 ug/l
 RT: 3.83 min Scan# 641
 Delta R.T. 0.02 min
 Lab File: VN056592.D
 Acq: 3 Jul 2019 18:15

Tgt Ion: 43 Resp: 6227
 Ion Ratio Lower Upper
 43 100
 58 33.5 26.4 39.6

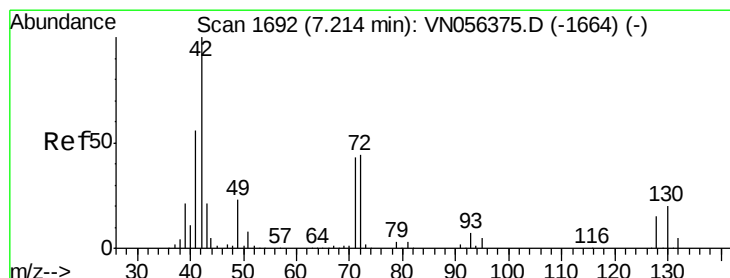
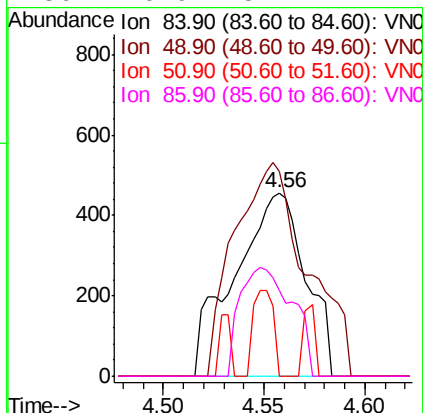
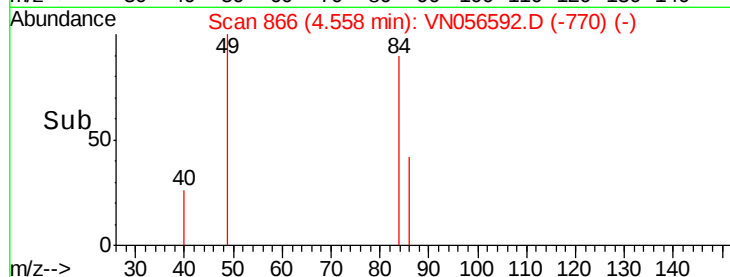
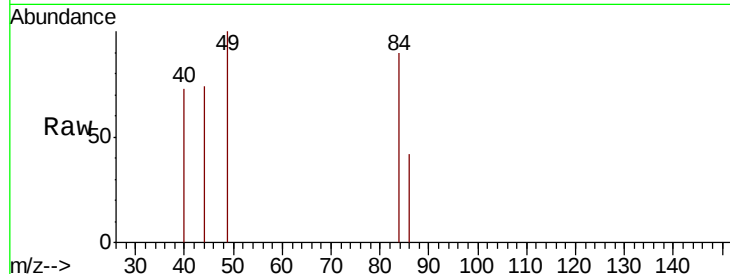




#20
Methylene Chloride
Concen: Below Cal
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN056592.D
Acq: 3 Jul 2019 18:15

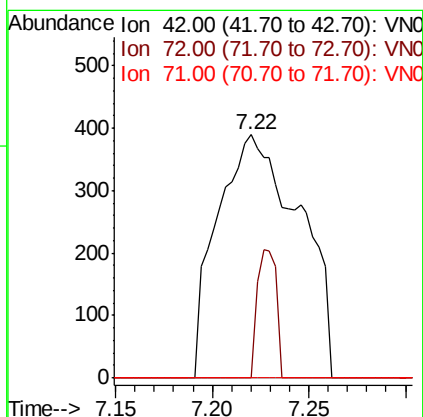
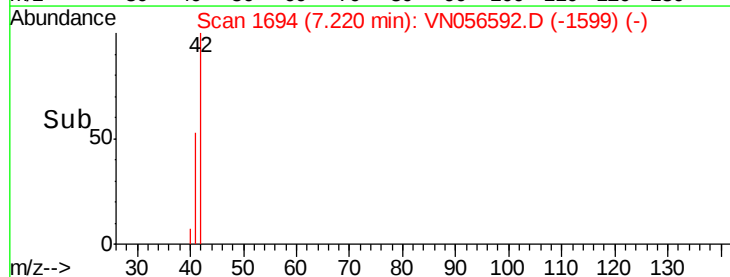
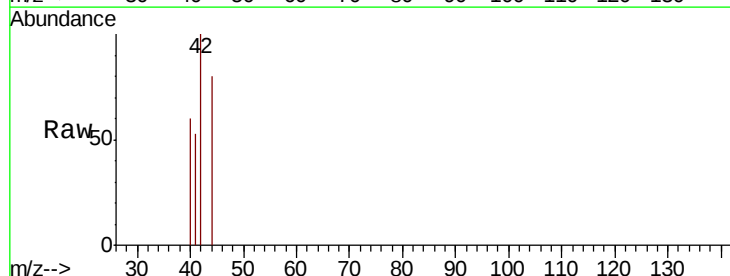
Instrument :
MSVOA_N
ClientSampled :
FIELD-BLANK

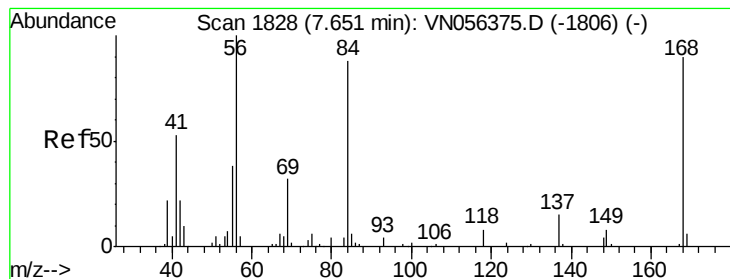
Tot Ion: 84 Resp: 1113
Ion Ratio Lower Upper
84 100
49 111.6 96.4 144.6
51 0.0 28.6 43.0#
86 46.9 51.4 77.2#



#29
Tetrahydrofuran
Concen: 0.933 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.01 min
Lab File: VN056592.D
Acq: 3 Jul 2019 18:15

Tgt Ion: 42 Resp: 1154
Ion Ratio Lower Upper
42 100
72 12.4 34.7 52.1#
71 0.0 33.0 49.6#





#31

Cyclohexane

Concen: 0.968 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN056592.D

Acq: 3 Jul 2019 18:15

Instrument :

MSVOA_N

ClientSampleId :

FIELD-BLANK

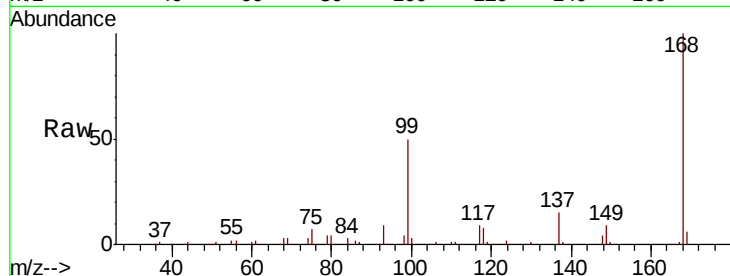
Tot Ion: 56 Resp: 4564

Ion Ratio Lower Upper

56 100

69 156.8 25.8 38.6#

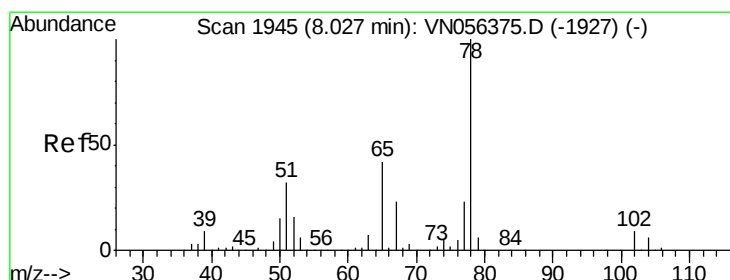
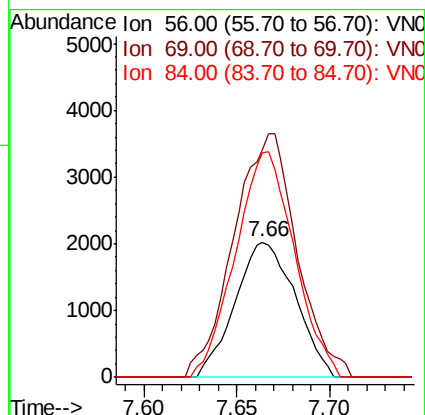
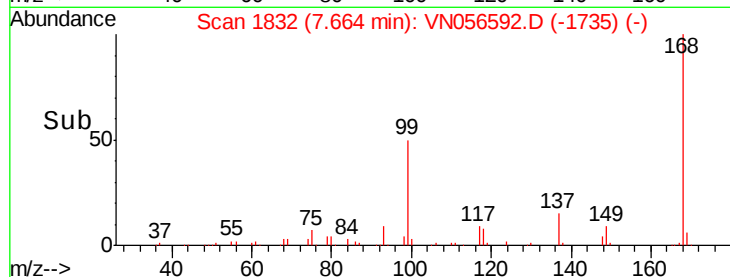
84 166.0 69.4 104.0#



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: 51.823 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN056592.D

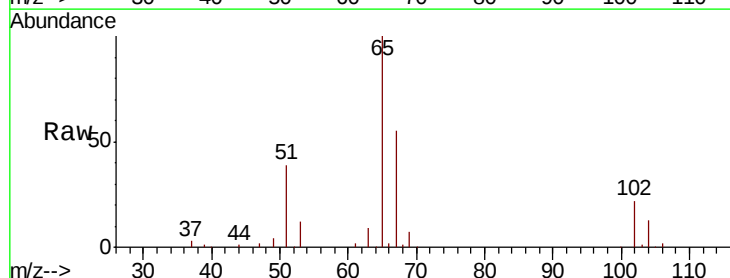
Acq: 3 Jul 2019 18:15

Tgt Ion: 65 Resp: 158177

Ion Ratio Lower Upper

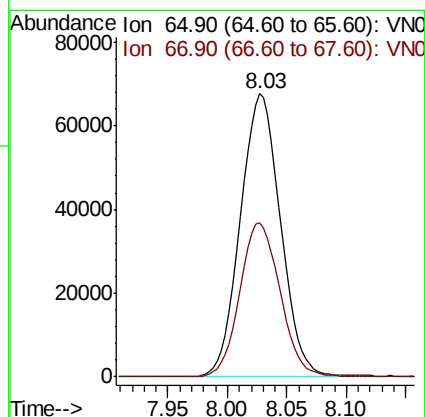
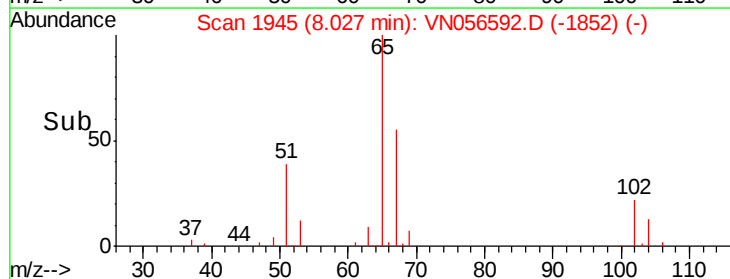
65 100

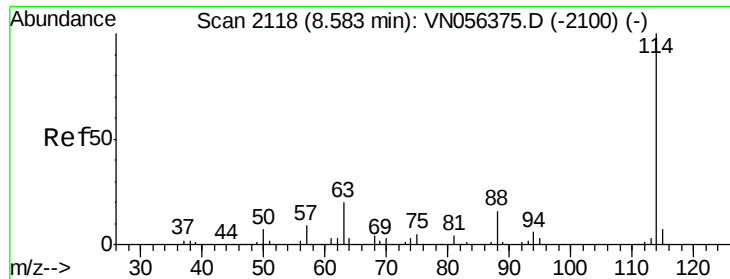
67 54.5 0.0 109.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

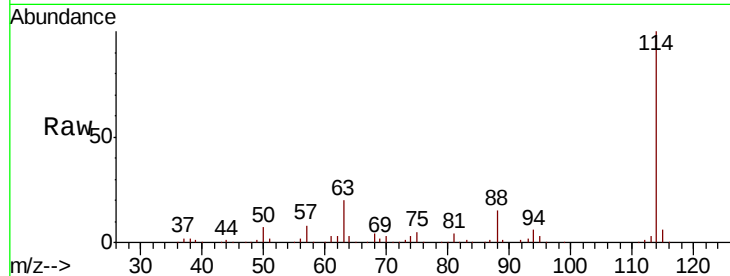




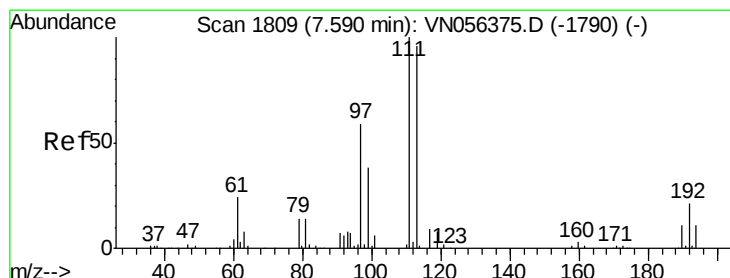
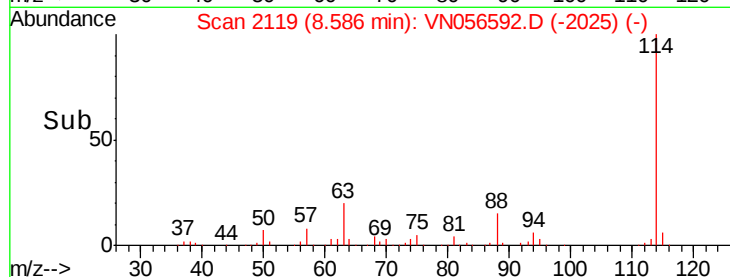
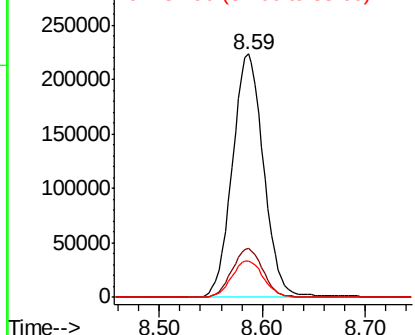
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056592.D
 Acq: 3 Jul 2019 18:15

Instrument :
 MSVOA_N
 ClientSampleId :
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Tot Ion:114 Resp: 472242
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 39.2
 88 14.8 0.0 31.4

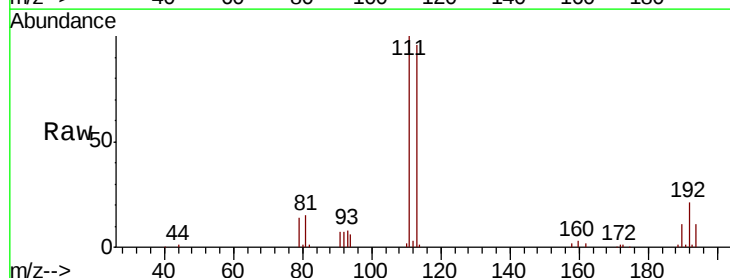


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

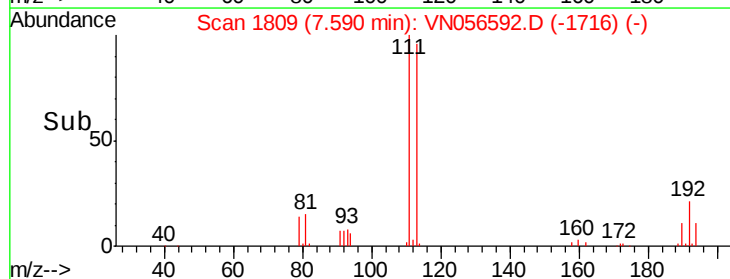
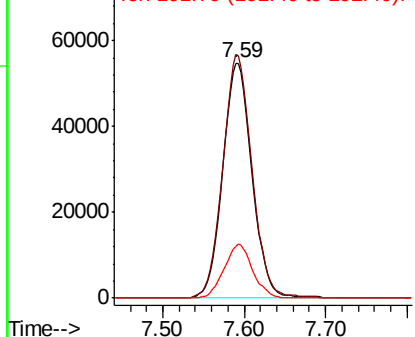


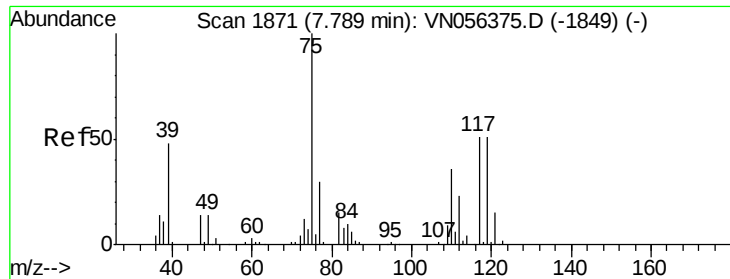
#35
 Dibromofluoromethane
 Concen: 46.952 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN056592.D
 Acq: 3 Jul 2019 18:15

Tgt Ion:113 Resp: 138320
 Ion Ratio Lower Upper
 113 100
 111 103.1 82.9 124.3
 192 22.3 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: 4.338 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.12 min

Lab File: VN056592.D

Acq: 3 Jul 2019 18:15

Instrument :

MSVOA_N

ClientSampled :

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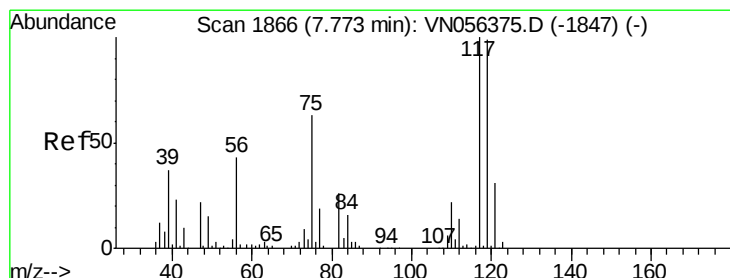
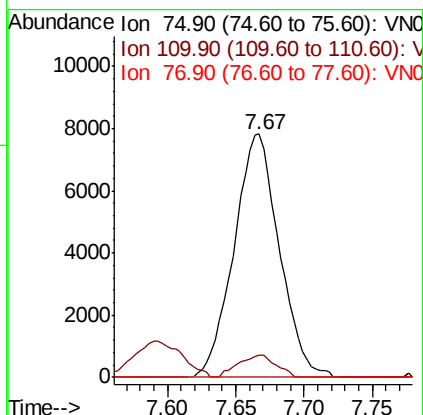
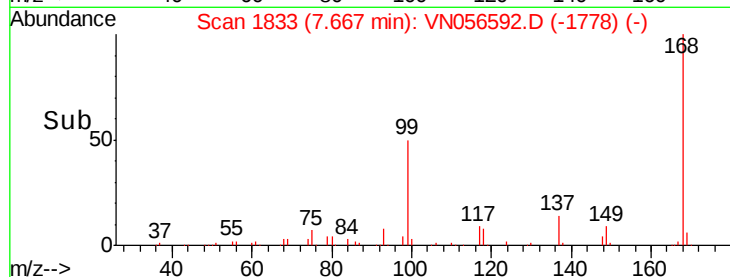
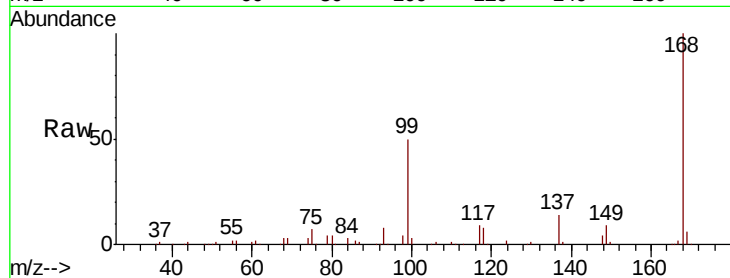
Tot Ion: 75 Resp: 18033

Ion Ratio Lower Upper

75 100

110 7.6 18.1 54.3#

77 0.0 24.6 36.8#



#38

Carbon Tetrachloride

Concen: 6.551 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN056592.D

Acq: 3 Jul 2019 18:15

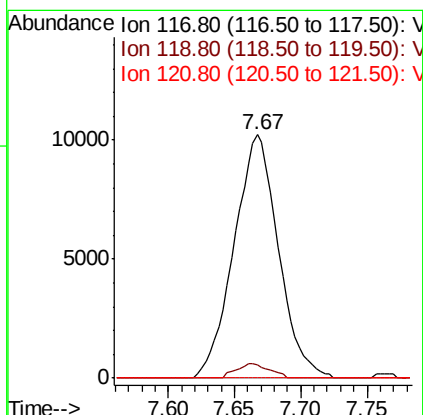
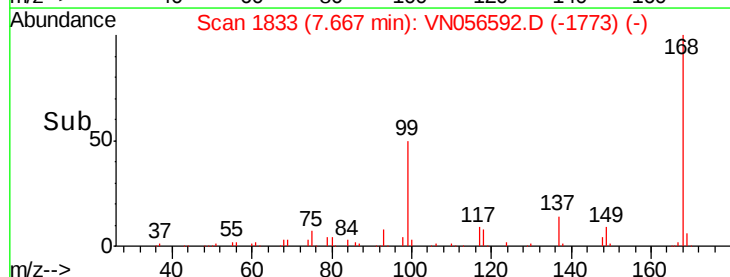
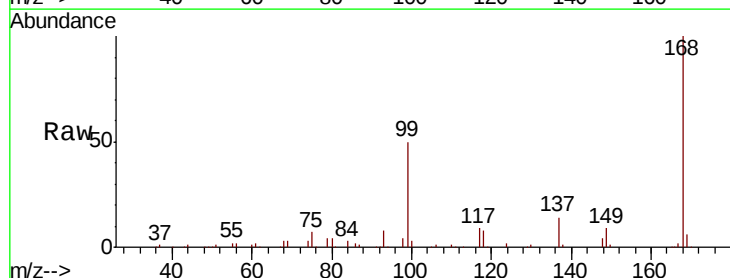
Tgt Ion:117 Resp: 23812

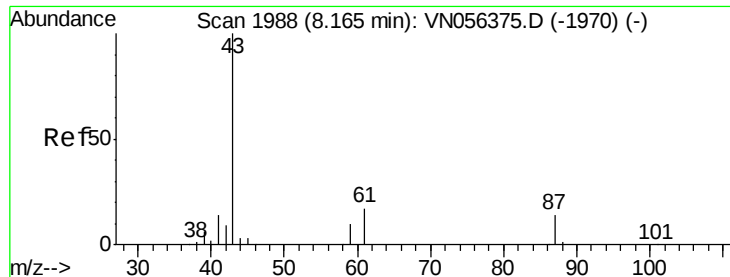
Ion Ratio Lower Upper

117 100

119 5.3 79.1 118.7#

121 0.0 24.8 37.2#





#43

Isopropyl Acetate

Concen: 0.820 ug/l

RT: 8.30 min Scan# 2031

Delta R.T. 0.14 min

Lab File: VN056592.D

Acq: 3 Jul 2019 18:15

Instrument :

MSVOA_N

ClientSampleId :

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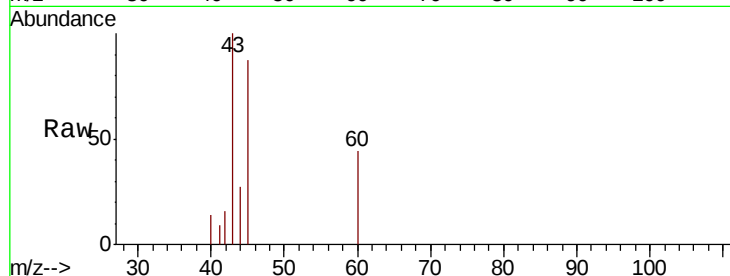
Tot Ion: 43 Resp: 5165

Ion Ratio Lower Upper

43 100

61 0.0 22.0 33.0#

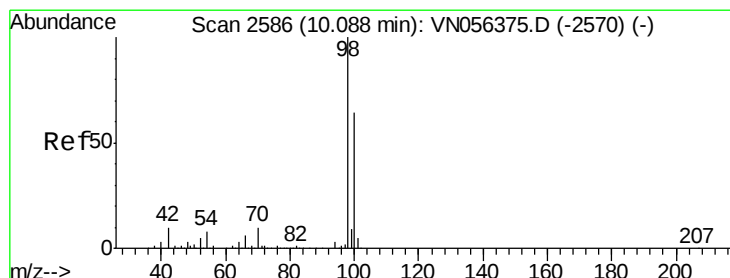
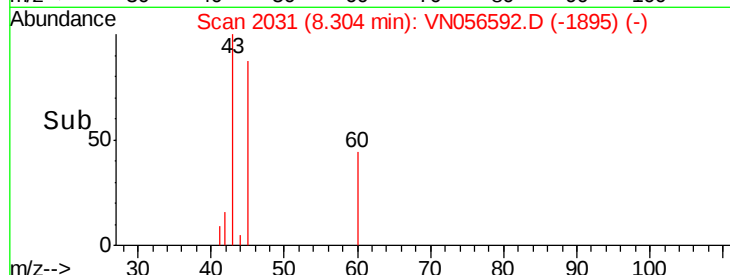
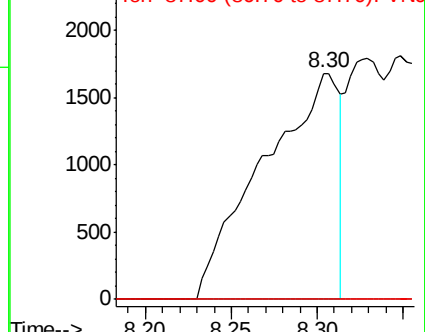
87 0.0 11.0 16.4#



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: 51.597 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056592.D

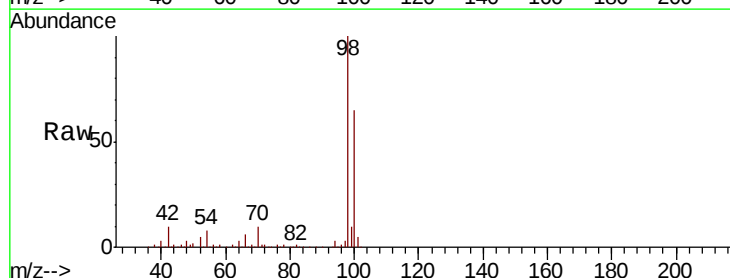
Acq: 3 Jul 2019 18:15

Tgt Ion: 98 Resp: 591463

Ion Ratio Lower Upper

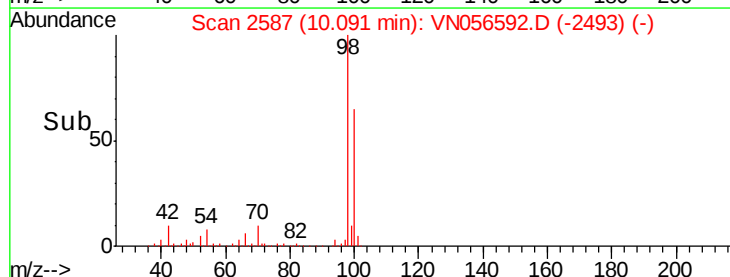
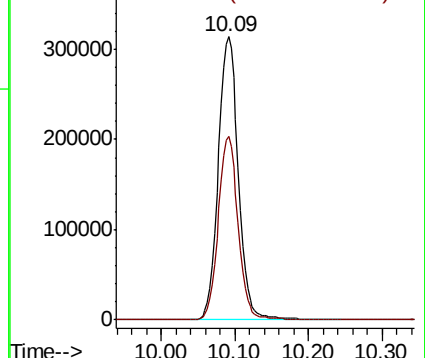
98 100

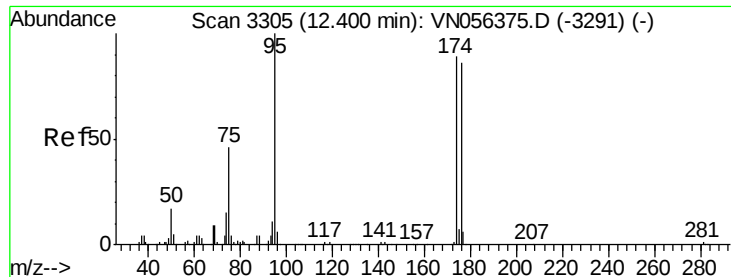
100 64.3 52.2 78.2



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: 54.473 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056592.D

Acq: 3 Jul 2019 18:15

Instrument :

MSVOA_N

ClientSampleId :

FIELD-BLANK

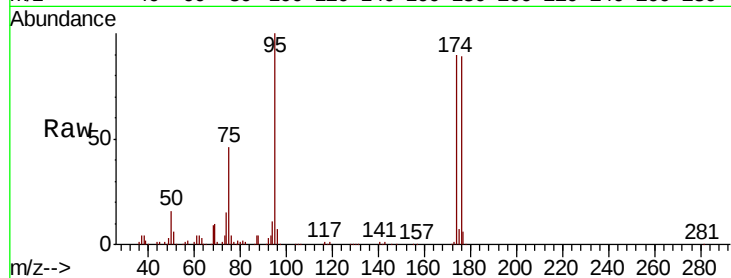
Tot Ion: 95 Resp: 208161

Ion Ratio Lower Upper

95 100

174 89.0 0.0 179.4

176 87.4 0.0 173.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0

12.40

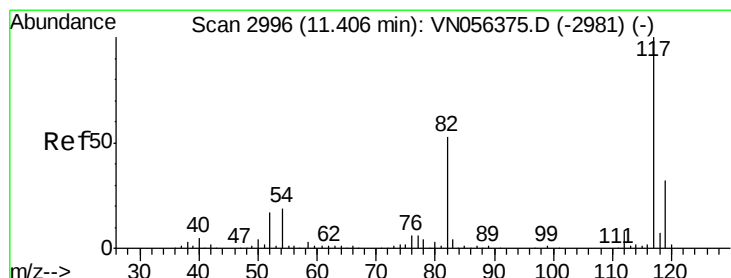
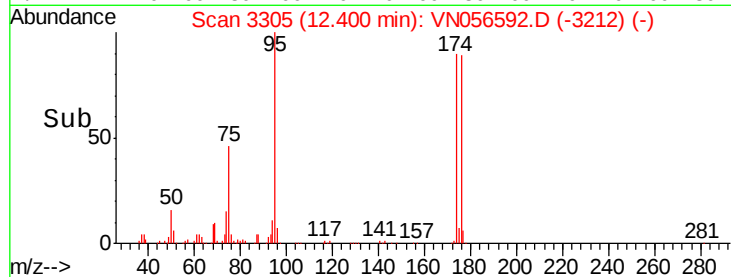
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN056592.D

Acq: 3 Jul 2019 18:15

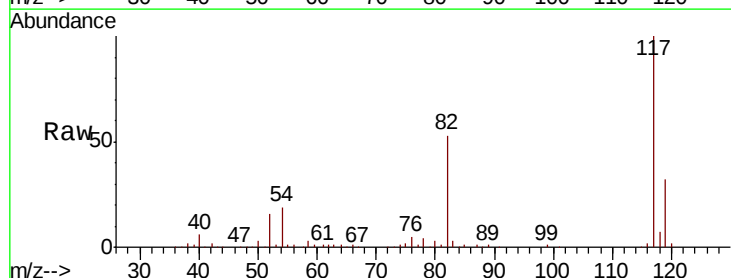
Tgt Ion: 117 Resp: 473475

Ion Ratio Lower Upper

117 100

82 53.4 42.0 63.0

119 32.1 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0

11.41

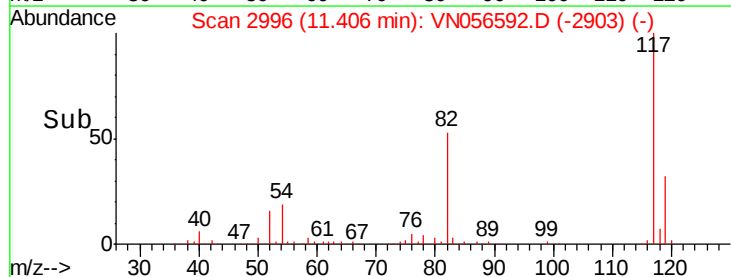
300000

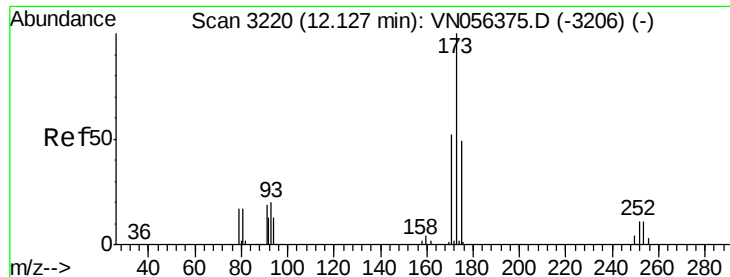
200000

100000

0

Time--> 11.30 11.40 11.50

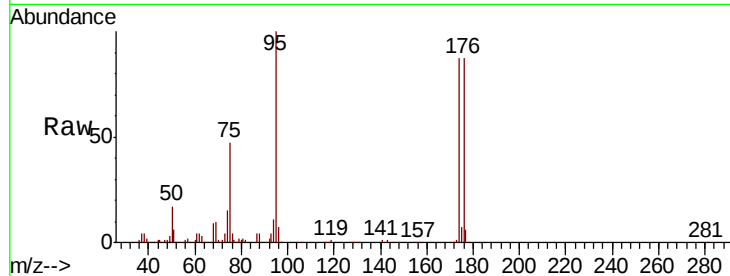




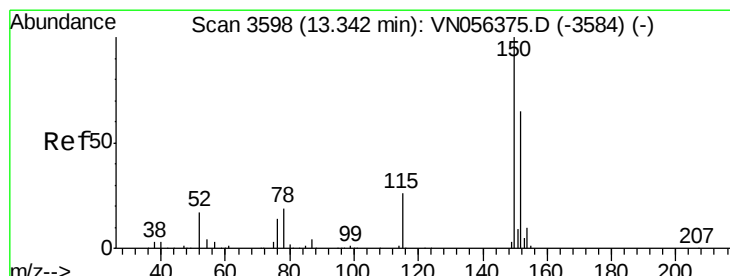
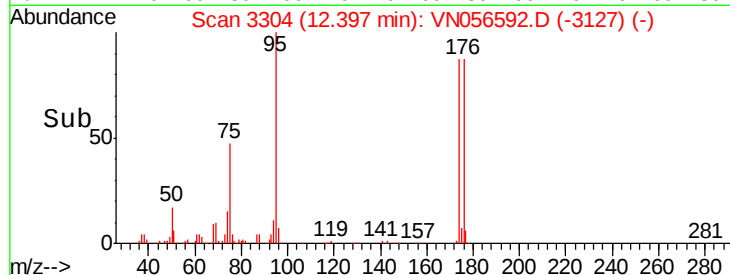
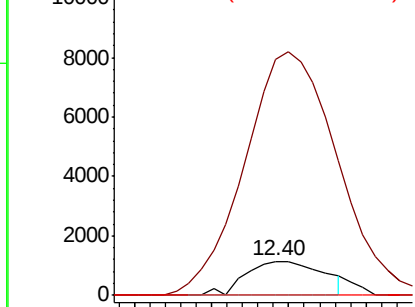
#71
Bromoform
Concen: 3.715 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN056592.D
Acq: 3 Jul 2019 18:15

Instrument :
MSVOA_N
ClientSampled :
FIELD-BLANK

Tot Ion:173 Resp: 1584
Ion Ratio Lower Upper
173 100
175 764.8 24.4 73.4#
254 0.0 0.0 0.0

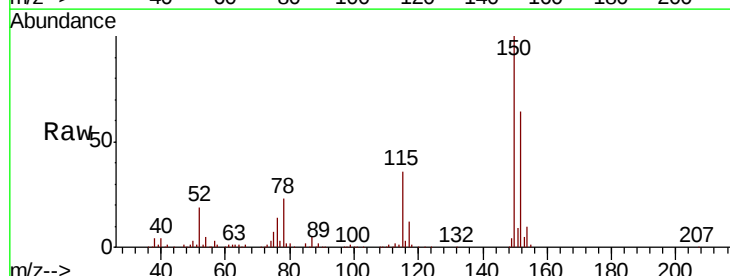


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

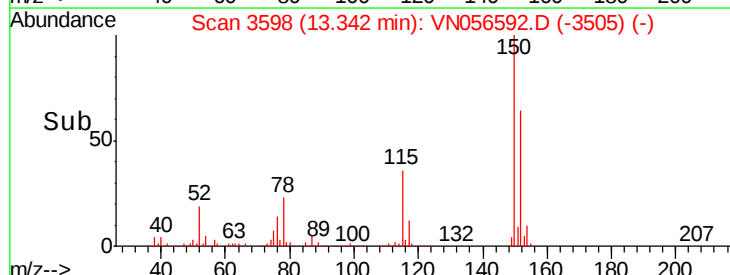
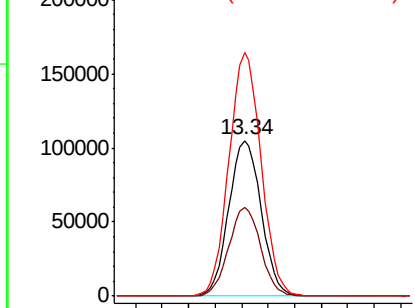


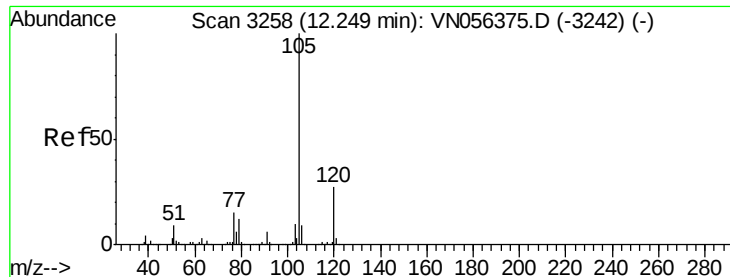
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN056592.D
Acq: 3 Jul 2019 18:15

Tgt Ion:152 Resp: 178721
Ion Ratio Lower Upper
152 100
115 56.1 28.1 84.4
150 155.2 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: 12.40 min Scan# 3305

Delta R.T. 0.15 min

Lab File: VN056592.D

Acq: 3 Jul 2019 18:15

Instrument :

MSVOA_N

ClientSampleId :

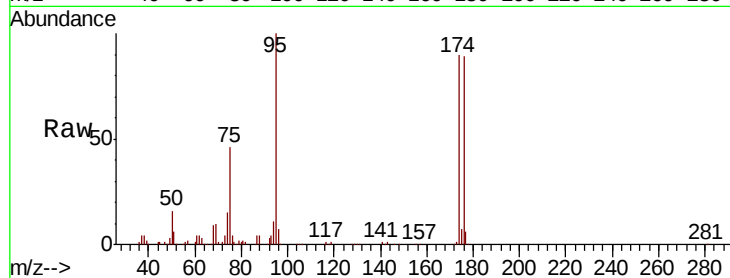
FIELD-BLANK

Tot Ion: 105 Resp: 29

Ion Ratio Lower Upper

105 100

120 0.0 13.4 40.2#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.40

150

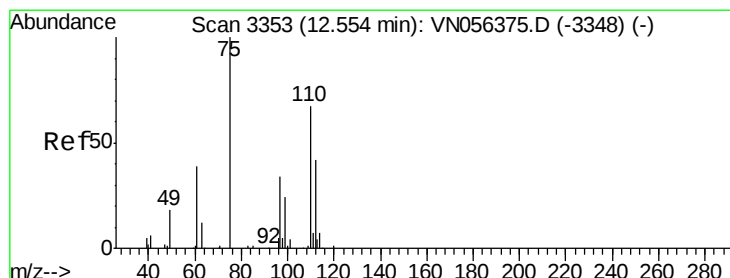
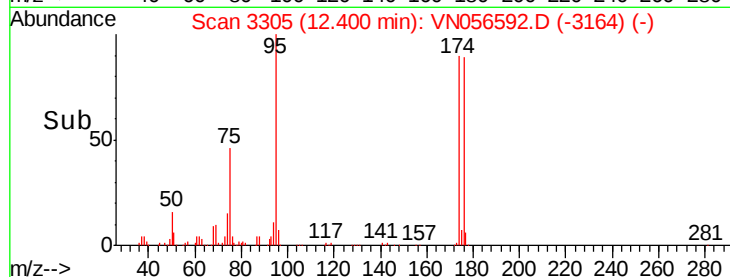
100

50

0

12.39 12.40 12.41

Time-->



#76

1,2,3-Trichloropropane

Concen: 26.178 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056592.D

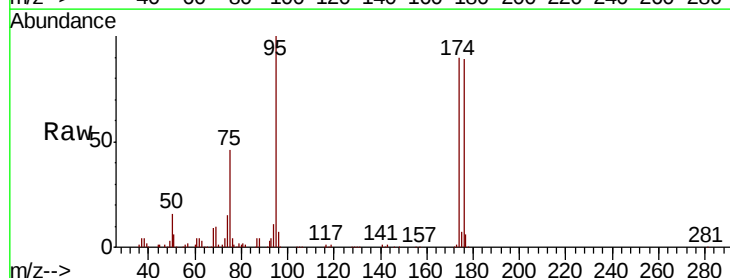
Acq: 3 Jul 2019 18:15

Tgt Ion: 75 Resp: 97009

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

60000

50000

40000

30000

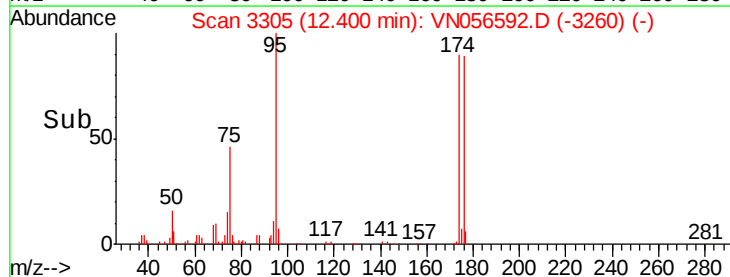
20000

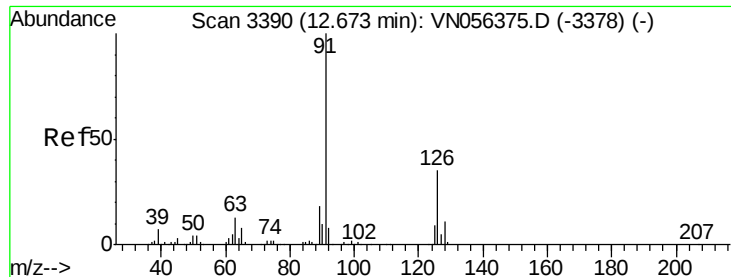
10000

0

12.35 12.40 12.45 12.50

Time-->





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.59 min Scan# 3365

Delta R.T. -0.08 min

Lab File: VN056592.D

Acq: 3 Jul 2019 18:15

Instrument :

MSVOA_N

ClientSampled :

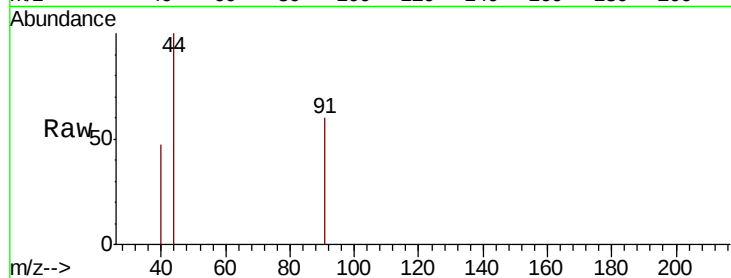
FIELD-BLANK

Tot Ion: 91 Resp: 320

Ion Ratio Lower Upper

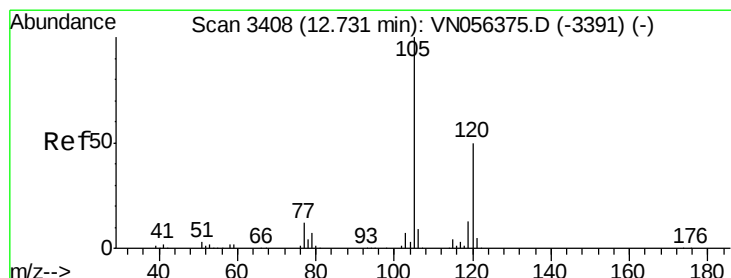
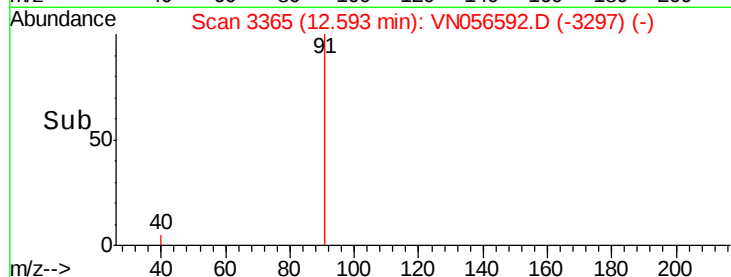
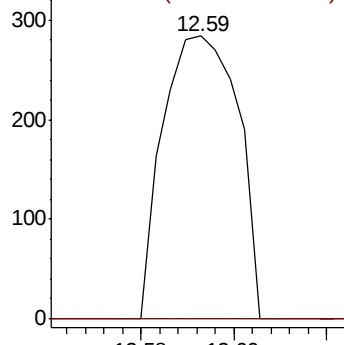
91 100

126 0.0 17.6 52.8#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.73 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VN056592.D

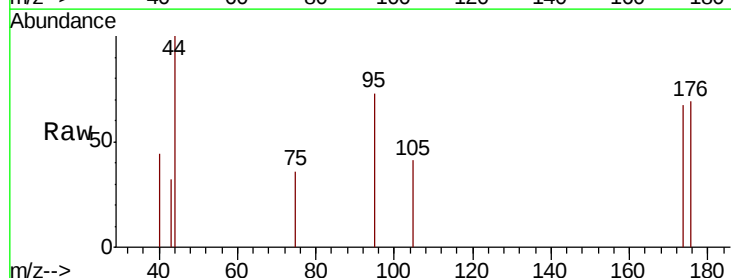
Acq: 3 Jul 2019 18:15

Tgt Ion: 105 Resp: 213

Ion Ratio Lower Upper

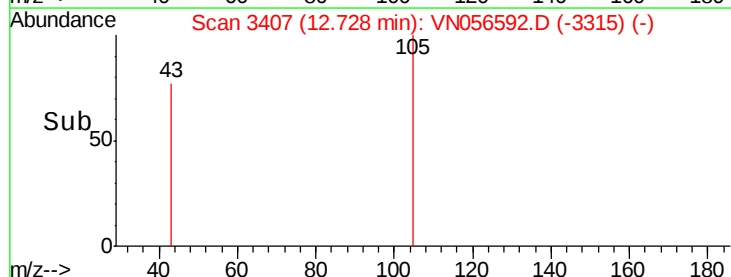
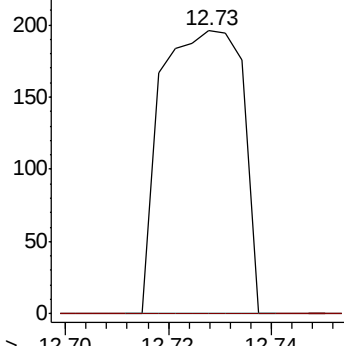
105 100

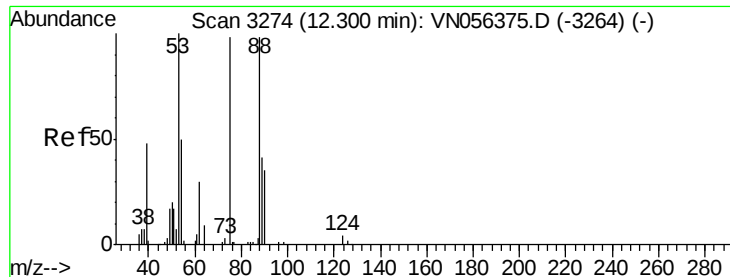
120 0.0 24.8 74.4#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 93.039 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056592.D

Acq: 3 Jul 2019 18:15

Instrument :

MSVOA_N

ClientSampled :

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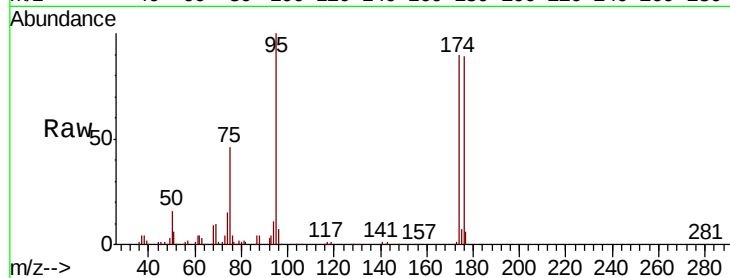
Tot Ion: 75 Resp: 97009

Ion Ratio Lower Upper

75 100

53 0.0 83.9 125.9#

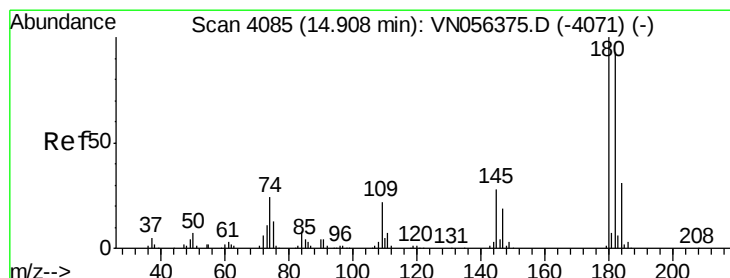
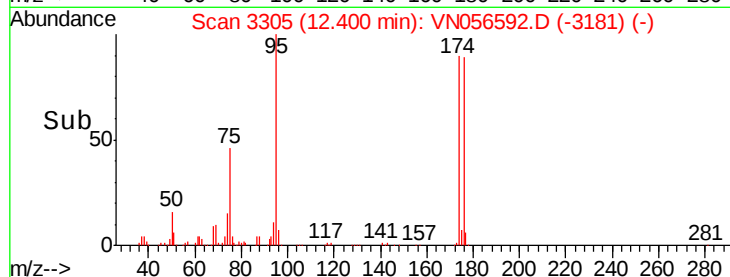
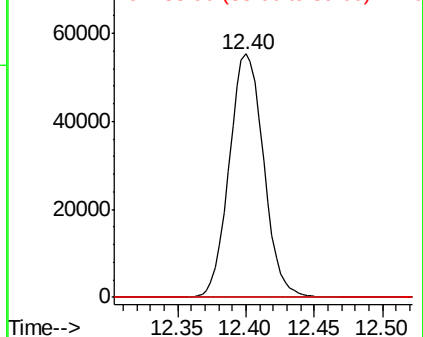
89 0.0 35.0 52.6#



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



#93

1,2,4-Trichlorobenzene

Concen: 5.687 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.01 min

Lab File: VN056592.D

Acq: 3 Jul 2019 18:15

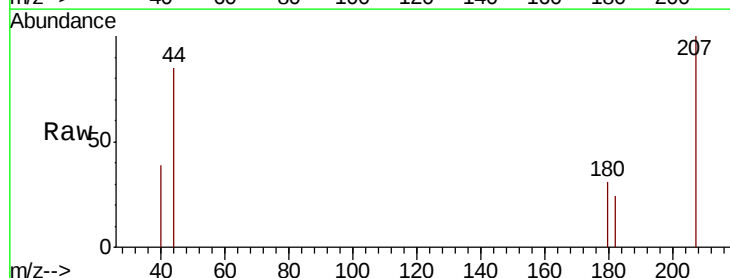
Tgt Ion: 180 Resp: 257

Ion Ratio Lower Upper

180 100

182 82.1 46.9 140.6

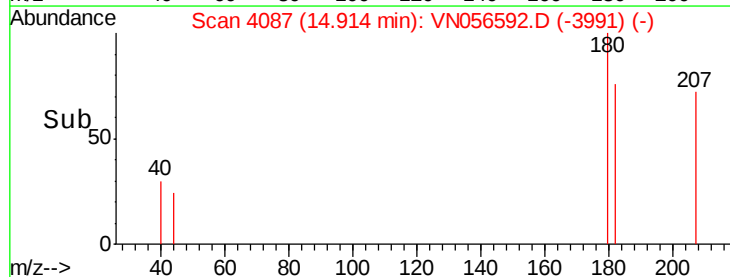
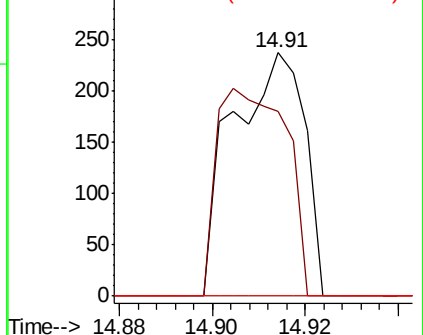
145 0.0 14.4 43.0#

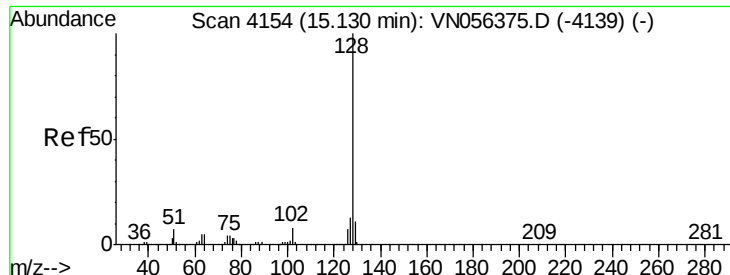


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 5.344 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN056592.D

Acq: 3 Jul 2019 18:15

Instrument :

MSVOA_N

ClientSampleId :

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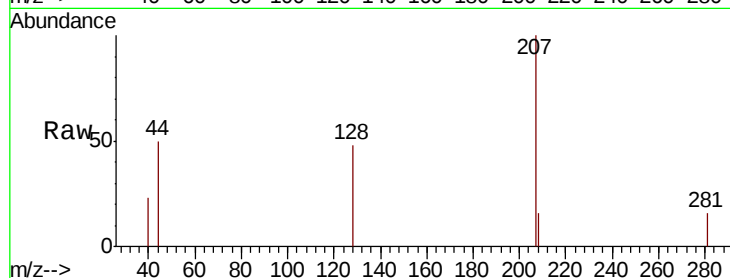
Tot Ion:128 Resp: 905

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

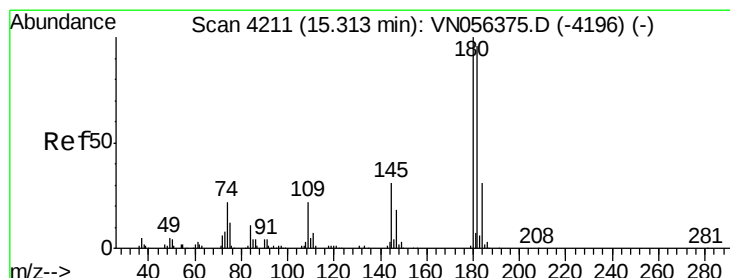
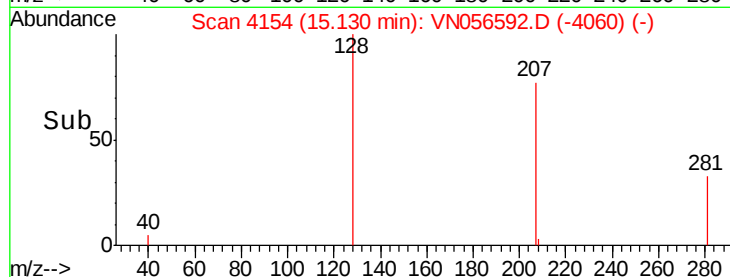
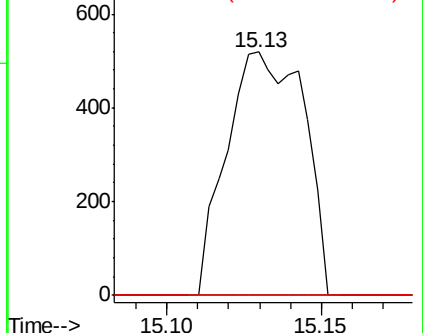
129 0.0 8.6 12.8#



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: 4.550 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN056592.D

Acq: 3 Jul 2019 18:15

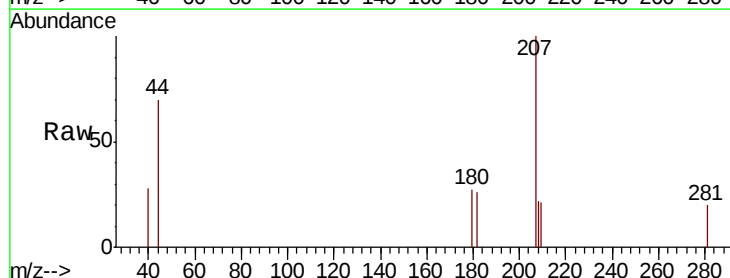
Tgt Ion:180 Resp: 246

Ion Ratio Lower Upper

180 100

182 111.4 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

