

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061219\
 Data File : VN056242.D
 Acq On : 12 Jun 2019 12:02
 Operator : JC/SP
 Sample : K3297-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OF-3

Quant Time: Jun 13 04:28:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jun 06 04:02:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	50095	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	248686	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	204665	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	94001	30.22	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.73%
60) 4-Bromofluorobenzene	12.40	95	69614	22.95	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	76.50%
63) Toluene-d8	10.09	98	293702	31.63	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	105.43%

Target Compounds

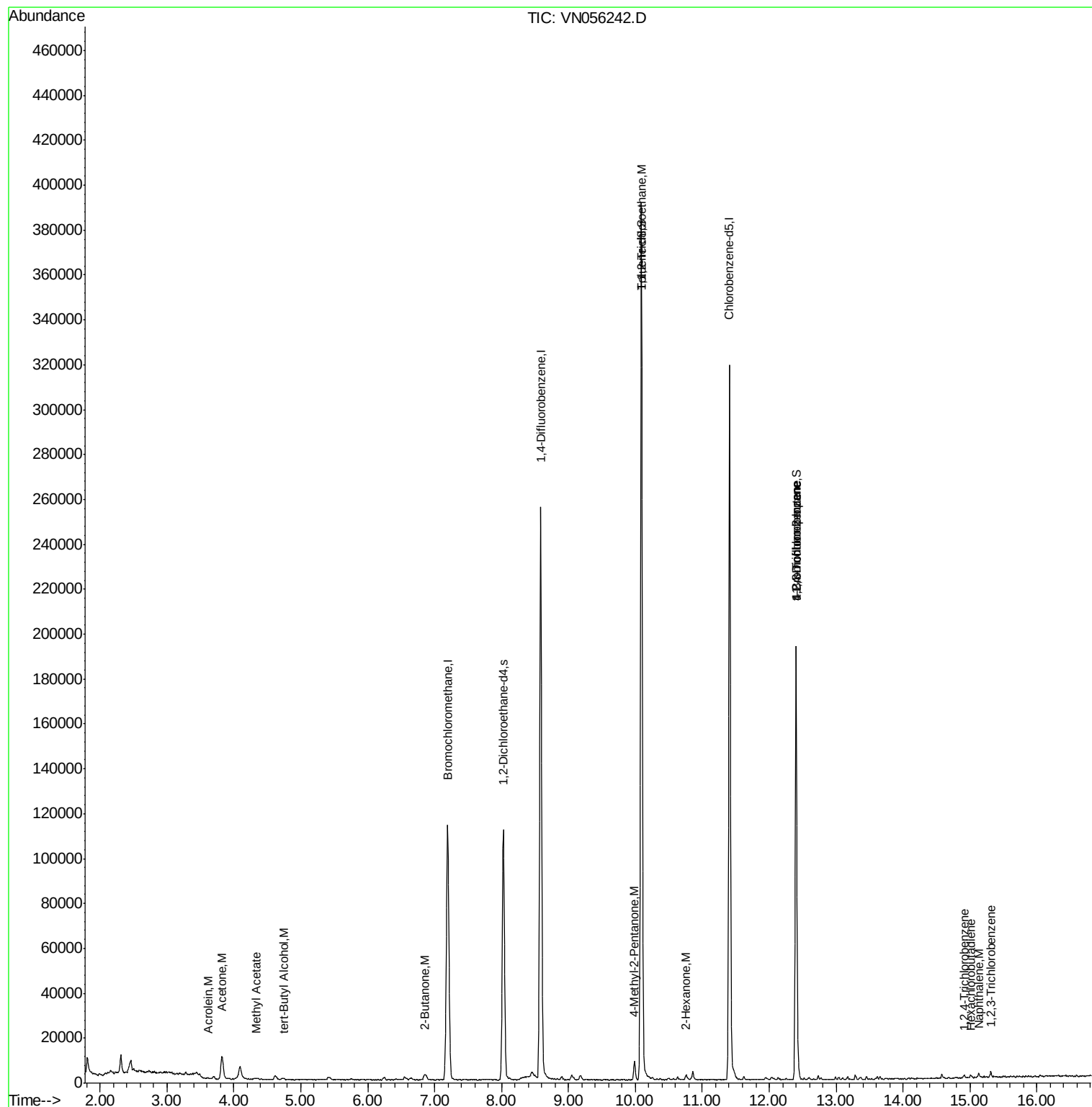
					Ovalue
12) Methyl Acetate	4.33	43	783	0.249 ug/l #	50
13) Acrolein	3.61	56	98	0.640 ug/l #	17
15) Acetone	3.82	58	5875	12.804 ug/l	91
23) tert-Butyl Alcohol	4.74	59	218	0.400 ug/l #	100
30) 2-Butanone	6.85	43	4912	2.774 ug/l #	95
50) 1,1,2-Trichloroethane	10.09	97	9324	3.449 ug/l #	1
58) 4-Methyl-2-Pentanone	9.99	43	6620	2.136 ug/l	92
59) 2-Hexanone	10.76	43	2355	1.063 ug/l #	80
72) 1,2,3-Trichloropropane	12.40	75	31583	10.503 ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	31583	36.808 ug/l #	11
89) 1,2,4-Trichlorobenzene	14.91	180	820	8.791 ug/l #	78
90) Hexachlorobutadiene	15.01	225	409	0.231 ug/l	81
91) Naphthalene	15.13	128	2476	0.385 ug/l #	74
92) 1,2,3-Trichlorobenzene	15.31	180	1064	0.420 ug/l	85

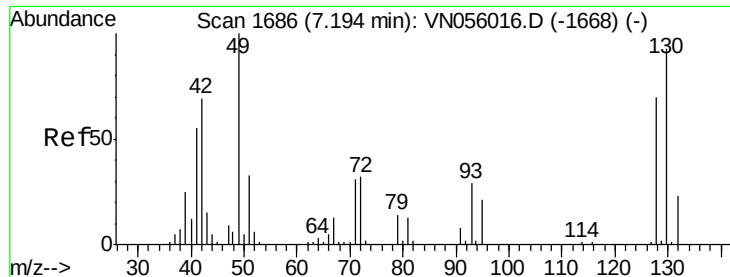
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN061219\
Data File : VN056242.D
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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
OF-3

Quant Time: Jun 13 04:28:28 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jun 06 04:02:53 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VN056242.D

Acq: 12 Jun 2019 12:02

Instrument :

MSVOA_N

ClientSampled :

OF-3

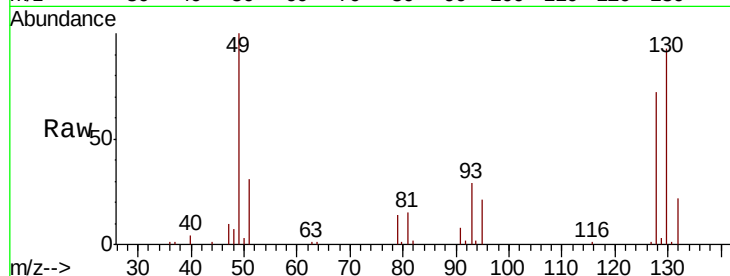
Tot Ion:128 Resp: 50095

Ion Ratio Lower Upper

128 100

49 138.6 0.0 355.8

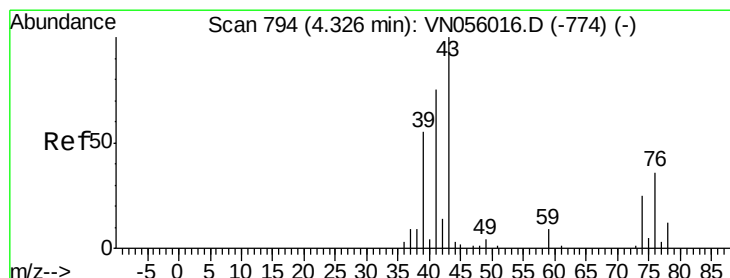
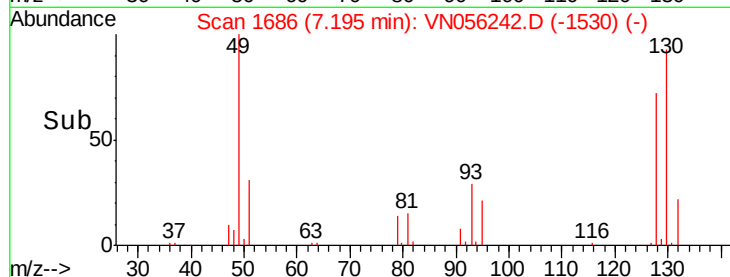
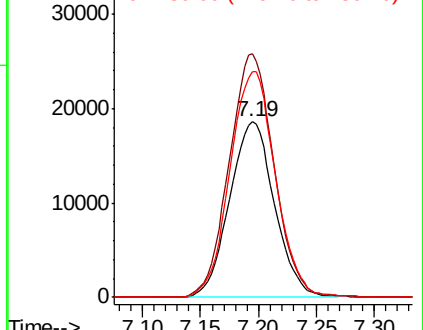
130 129.9 0.0 326.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#12

Methyl Acetate

Concen: 0.249 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN056242.D

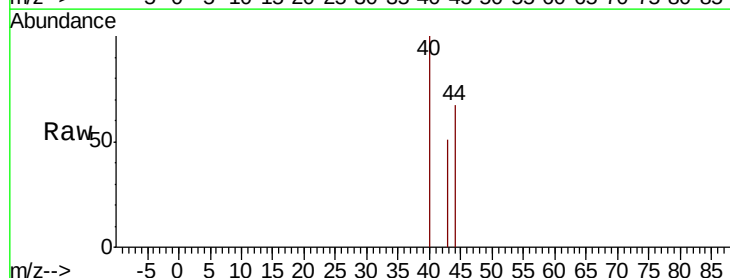
Acq: 12 Jun 2019 12:02

Tgt Ion: 43 Resp: 783

Ion Ratio Lower Upper

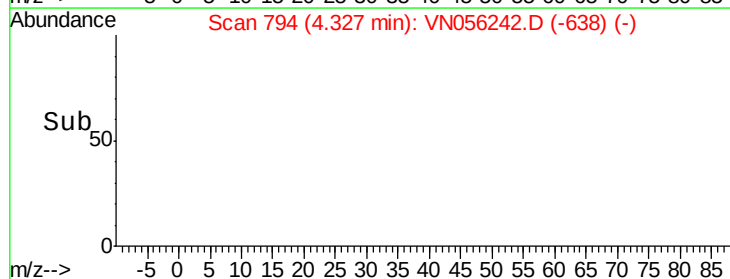
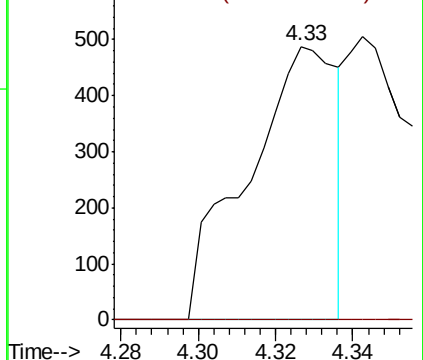
43 100

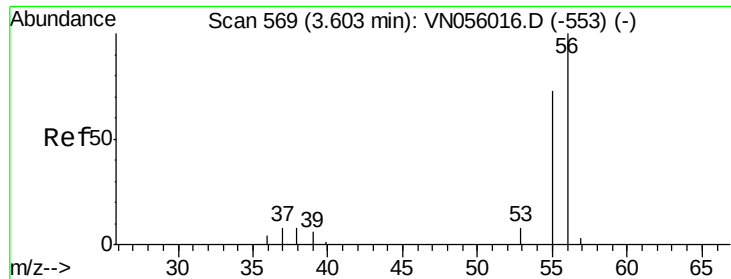
74 0.0 19.9 29.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#13

Acrolein

Concen: 0.640 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.01 min

Lab File: VN056242.D

Acq: 12 Jun 2019 12:02

Instrument :

MSVOA_N

ClientSampled :

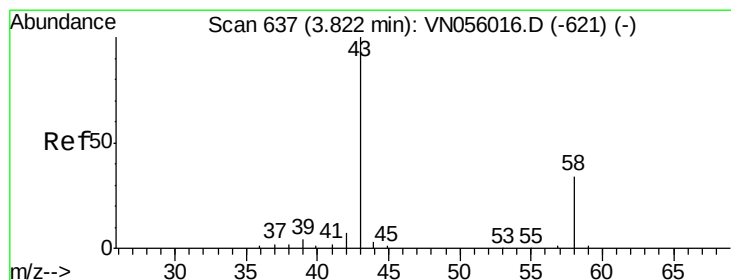
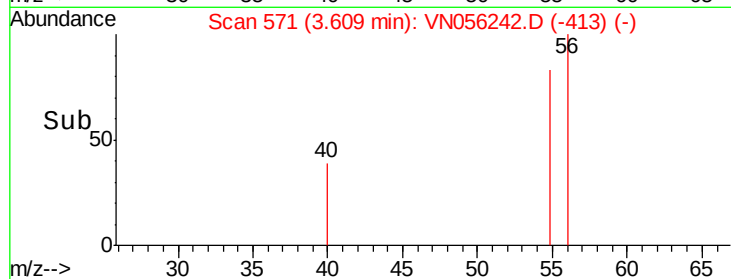
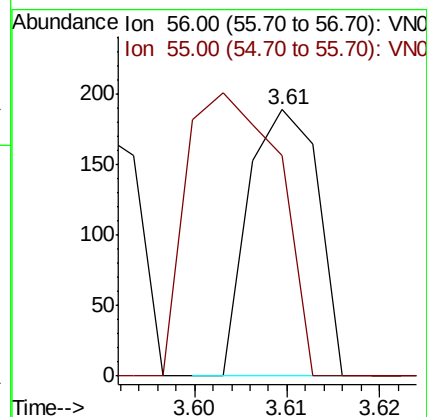
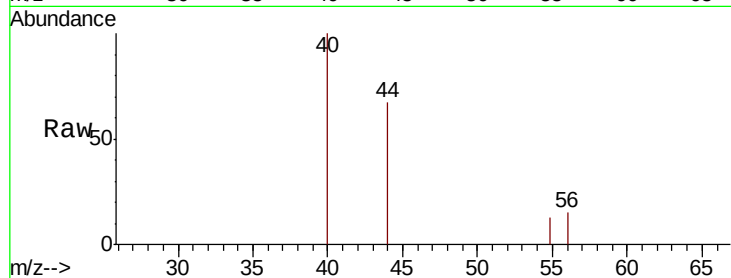
OF-3

Tot Ion: 56 Resp: 98

Ion Ratio Lower Upper

56 100

55 141.8 57.9 86.9#



#15

Acetone

Concen: 12.804 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN056242.D

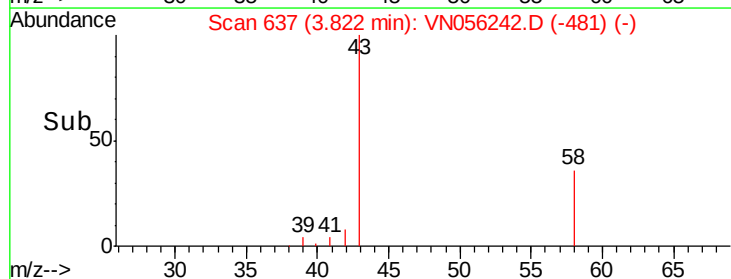
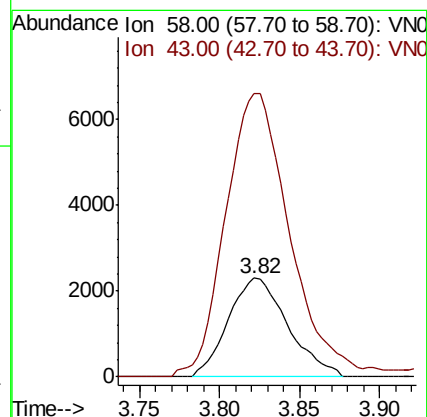
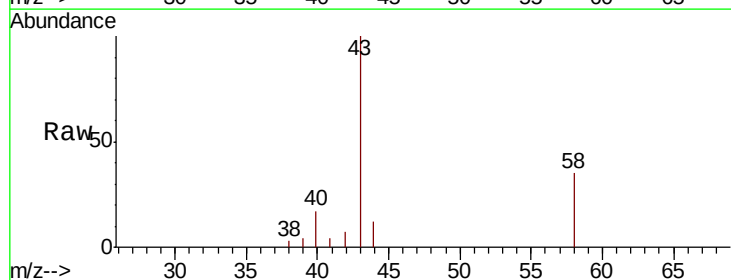
Acq: 12 Jun 2019 12:02

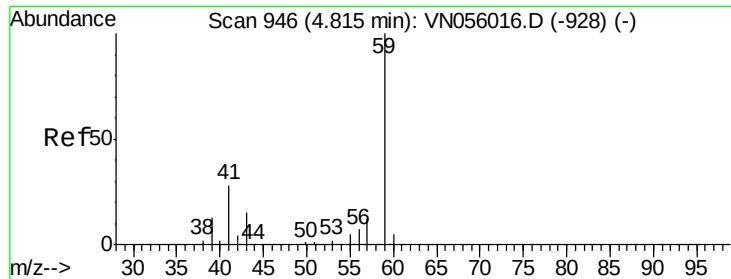
Tgt Ion: 58 Resp: 5875

Ion Ratio Lower Upper

58 100

43 273.3 232.5 348.7

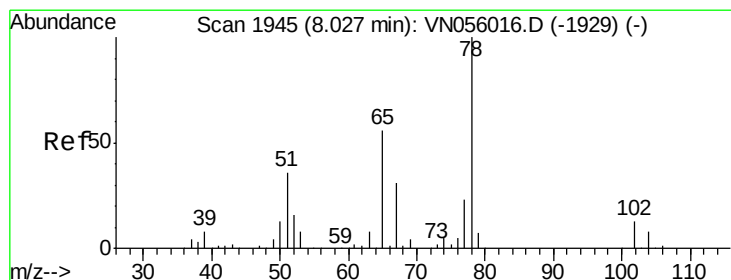
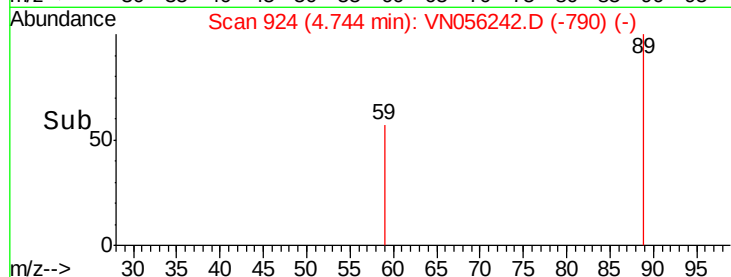
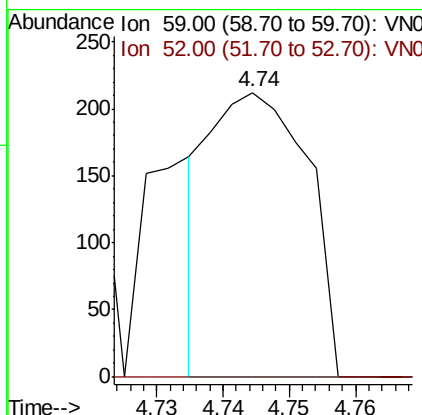
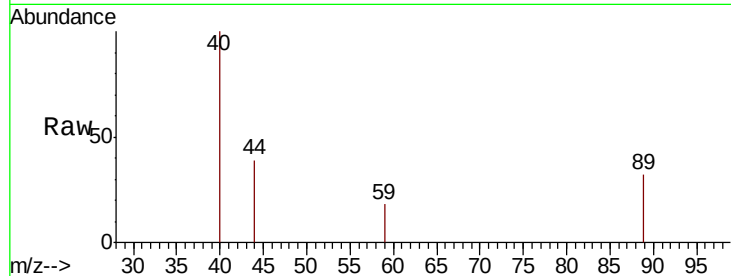




#23
 tert-Butyl Alcohol
 Concen: 0.400 ug/l
 RT: 4.74 min Scan# 924
 Delta R.T. -0.07 min
 Lab File: VN056242.D
 Acq: 12 Jun 2019 12:02

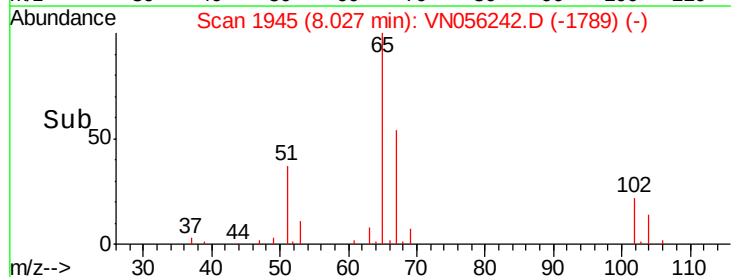
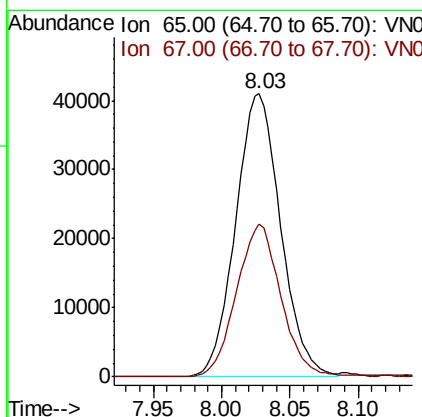
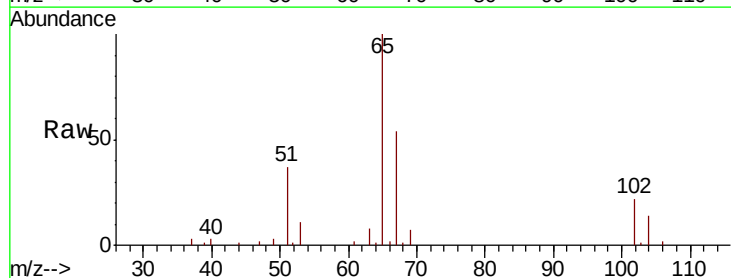
Instrument :
 MSVOA_N
 ClientSampled :
 OF-3

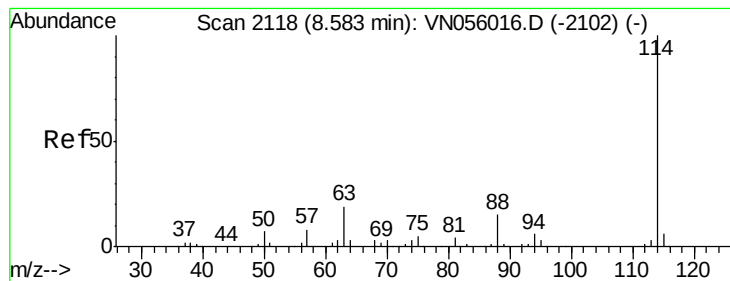
Tot Ion: 59 Resp: 218
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0



#27
 1,2-Dichloroethane-d4
 Concen: 30.217 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056242.D
 Acq: 12 Jun 2019 12:02

Tgt Ion: 65 Resp: 94001
 Ion Ratio Lower Upper
 65 100
 67 53.2 43.4 65.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN056242.D

Acq: 12 Jun 2019 12:02

Instrument :

MSVOA_N

ClientSampleId :

OF-3

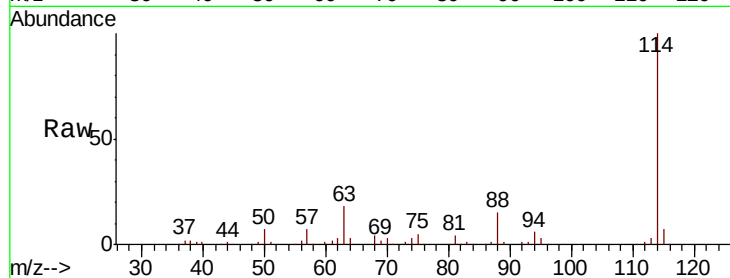
Tot Ion:114 Resp: 248686

Ion Ratio Lower Upper

114 100

63 18.4 14.7 22.1

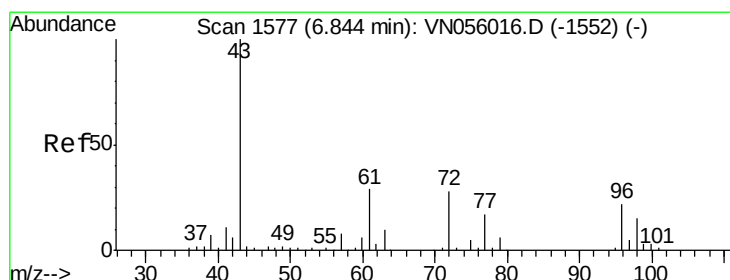
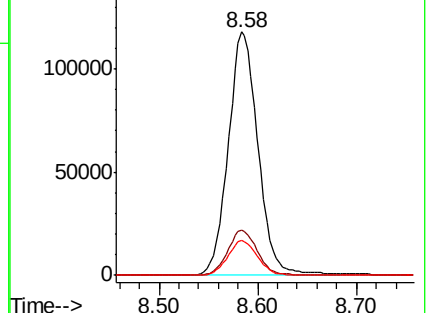
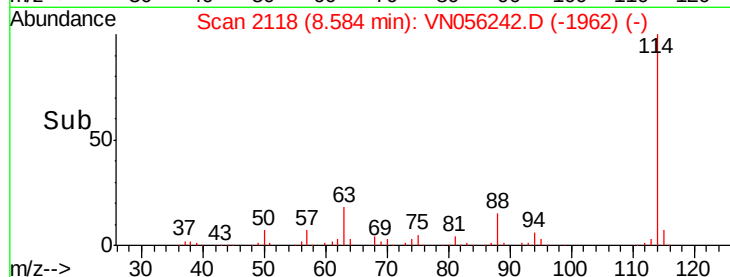
88 14.4 11.9 17.9



Abundance Ion 114.00 (113.70 to 114.70): VN056016.D (-2102) (-)

Ion 63.00 (62.70 to 63.70): VN056016.D (-2102) (-)

Ion 88.00 (87.70 to 88.70): VN056016.D (-2102) (-)



#30

2-Butanone

Concen: 2.774 ug/l

RT: 6.85 min Scan# 1580

Delta R.T. 0.01 min

Lab File: VN056242.D

Acq: 12 Jun 2019 12:02

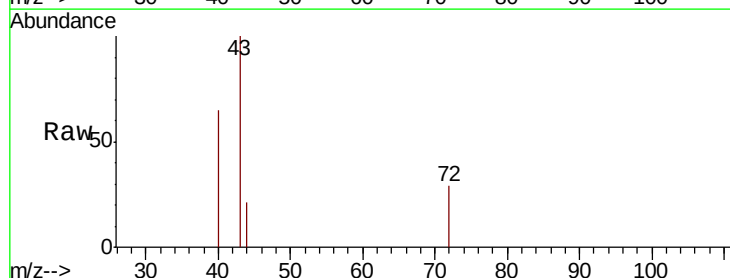
Tgt Ion: 43 Resp: 4912

Ion Ratio Lower Upper

43 100

57 2.0 6.7 10.1#

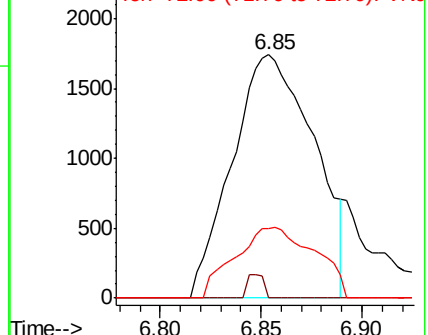
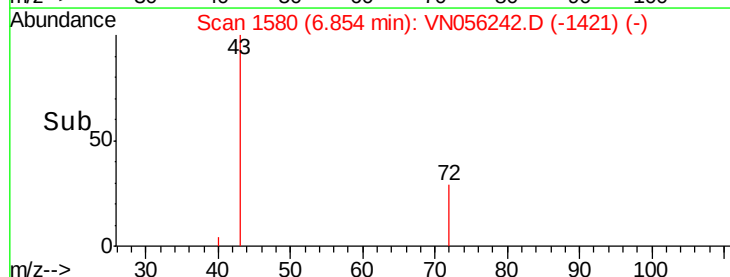
72 28.4 22.4 33.6

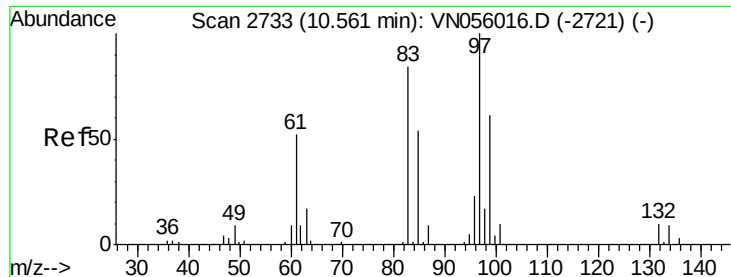


Abundance Ion 43.00 (42.70 to 43.70): VN056016.D (-1552) (-)

Ion 57.00 (56.70 to 57.70): VN056016.D (-1552) (-)

Ion 72.00 (71.70 to 72.70): VN056016.D (-1552) (-)

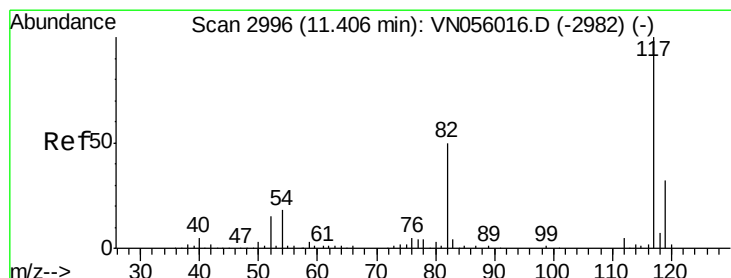
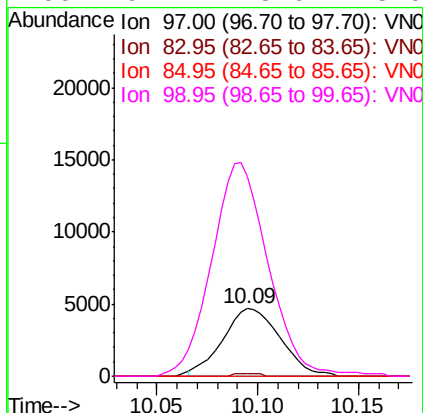
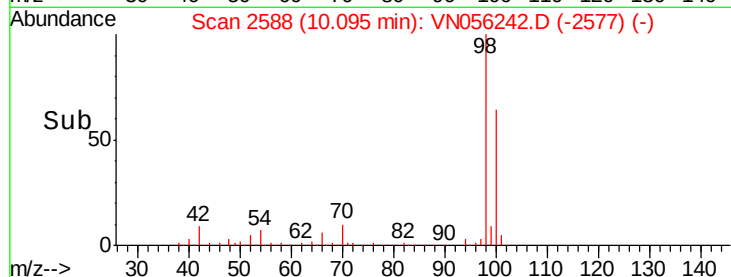
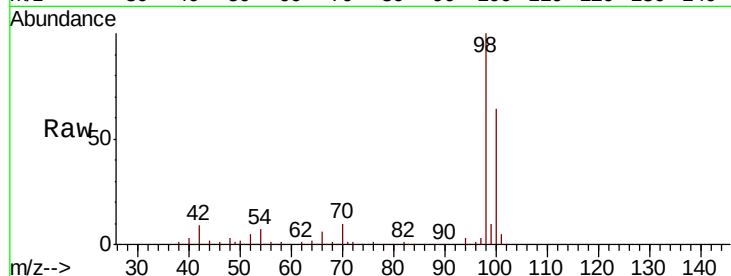




#50
1,1,2-Trichloroethane
Concen: 3.449 ug/l
RT: 10.09 min Scan# 2588
Delta R.T. -0.47 min
Lab File: VN056242.D
Acq: 12 Jun 2019 12:02

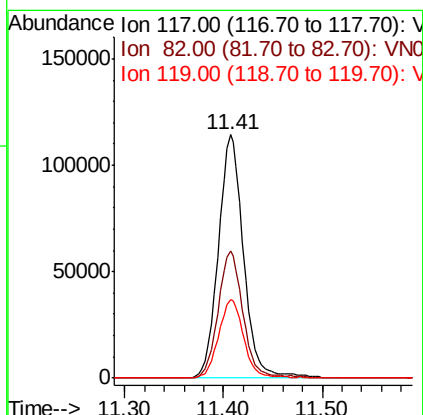
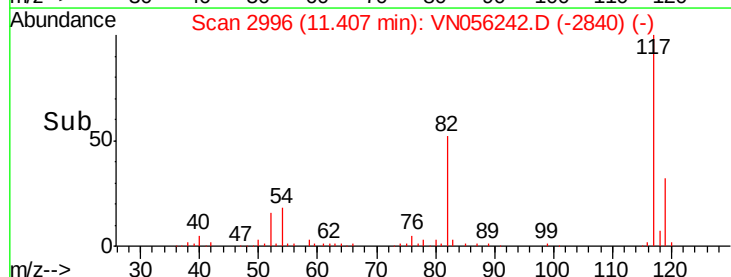
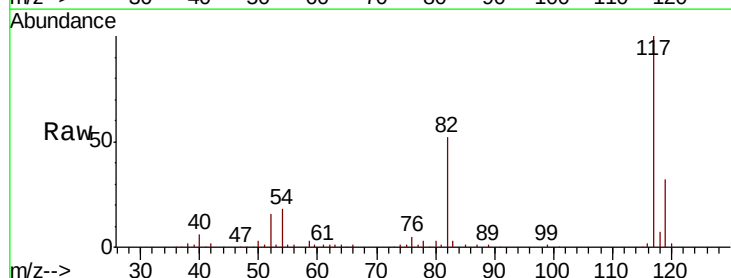
Instrument :
MSVOA_N
ClientSampled :
OF-3

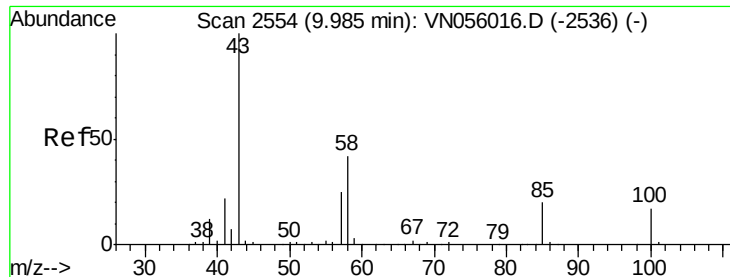
Tot Ion: 97 Resp: 9324
Ion Ratio Lower Upper
97 100
83 4.2 66.9 100.3#
85 0.0 43.3 64.9#
99 291.1 48.6 73.0#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056242.D
Acq: 12 Jun 2019 12:02

Tgt Ion: 117 Resp: 204665
Ion Ratio Lower Upper
117 100
82 51.2 41.2 61.8
119 32.2 26.2 39.2





#58

4-Methyl-2-Pentanone

Concen: 2.136 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

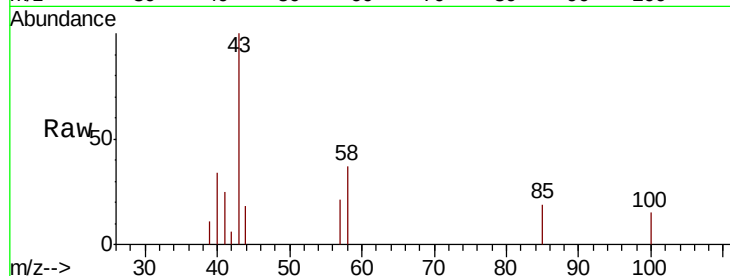
Lab File: VN056242.D

Acq: 12 Jun 2019 12:02

Instrument :
MSVOA_N
ClientSampled :
OF-3

Tot Ion: 43 Resp: 6620

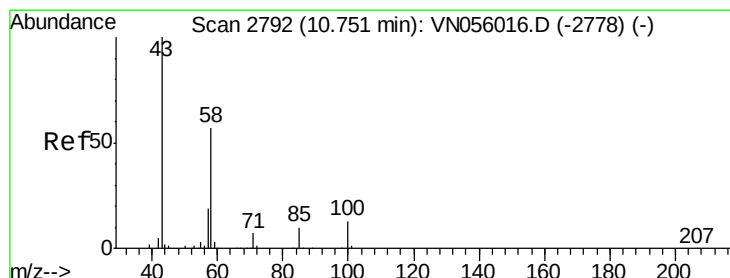
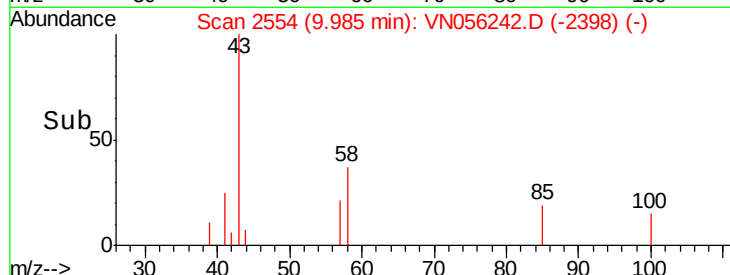
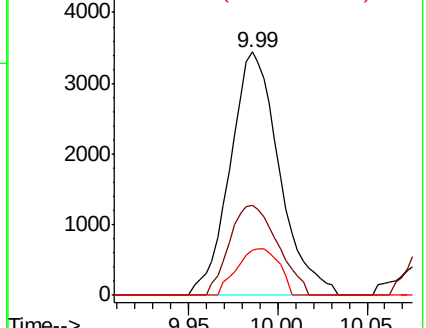
Ion	Ratio	Lower	Upper
43	100		
58	36.3	33.1	49.7
85	16.3	15.5	23.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

Ion 85.00 (84.70 to 85.70): VN0



#59

2-Hexanone

Concen: 1.063 ug/l

RT: 10.76 min Scan# 2794

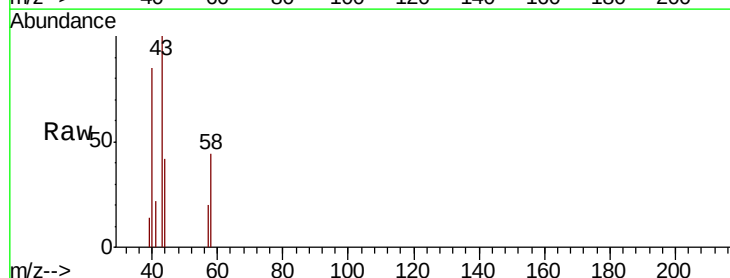
Delta R.T. 0.01 min

Lab File: VN056242.D

Acq: 12 Jun 2019 12:02

Tgt Ion: 43 Resp: 2355

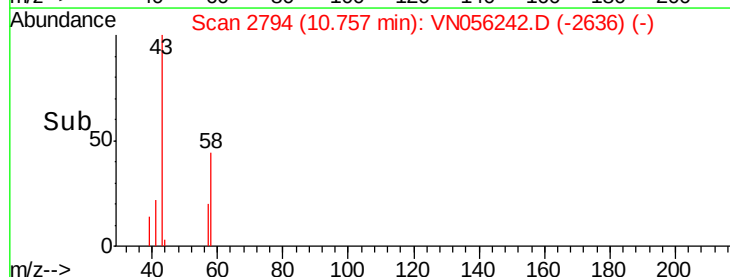
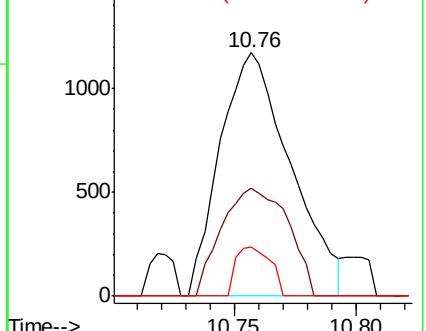
Ion	Ratio	Lower	Upper
43	100		
58	42.0	45.3	67.9#
57	9.8	15.6	23.4#

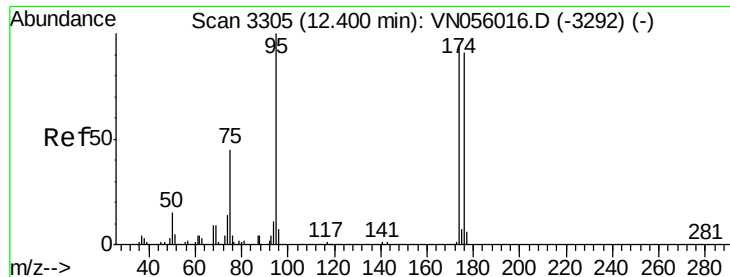


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#60

4-Bromofluorobenzene

Concen: 22.948 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056242.D

Acq: 12 Jun 2019 12:02

Instrument :

MSVOA_N

ClientSampled :

OF-3

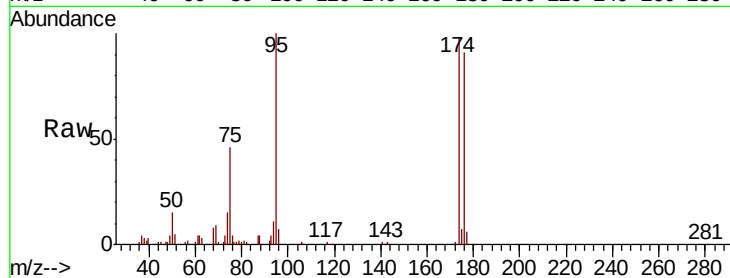
Tot Ion: 95 Resp: 69614

Ion Ratio Lower Upper

95 100

174 101.3 75.4 113.0

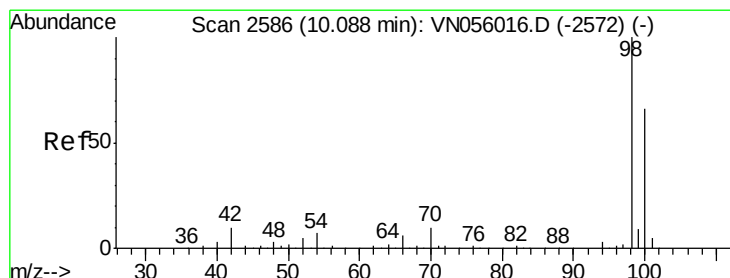
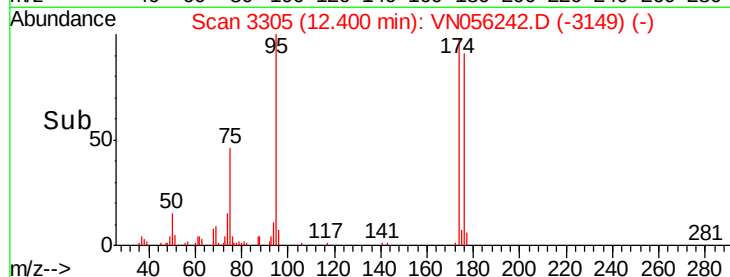
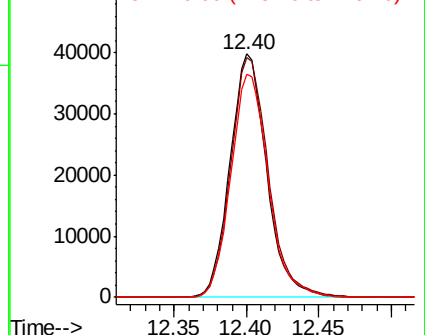
176 93.8 73.9 110.9



Abundance Ion 95.00 (94.70 to 95.70): VN056242.D (-3149) (-)

Ion 174.00 (173.70 to 174.70): VN056242.D (-3149) (-)

Ion 176.00 (175.70 to 176.70): VN056242.D (-3149) (-)



#63

Toluene-d8

Concen: 31.634 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056242.D

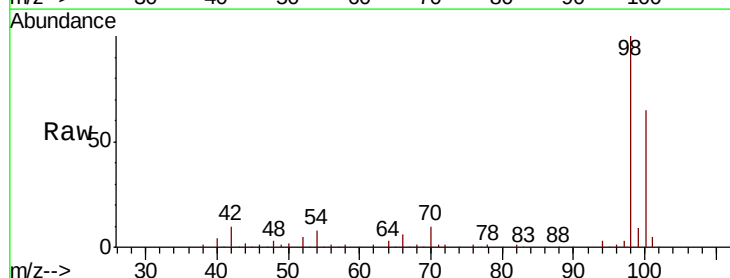
Acq: 12 Jun 2019 12:02

Tgt Ion: 98 Resp: 293702

Ion Ratio Lower Upper

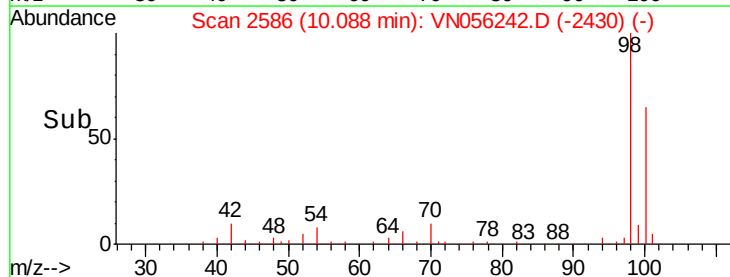
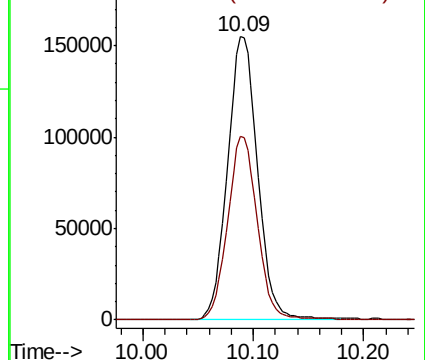
98 100

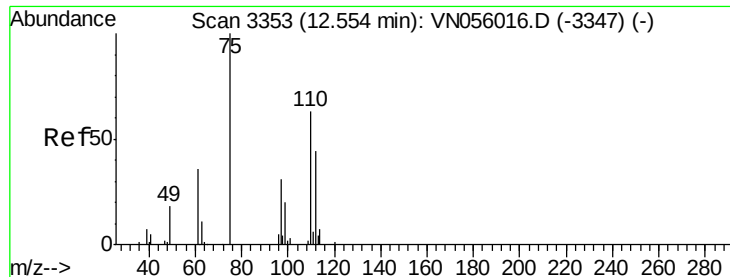
100 63.9 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VN056242.D (-2430) (-)

Ion 100.00 (99.70 to 100.70): VN056242.D (-2430) (-)





#72

1,2,3-Trichloropropane

Concen: 10.503 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056242.D

Acq: 12 Jun 2019 12:02

Instrument :

MSVOA_N

ClientSampleId :

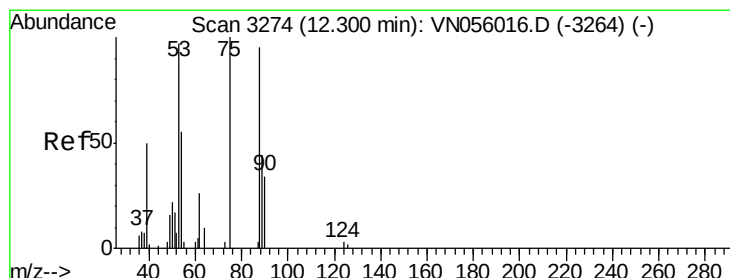
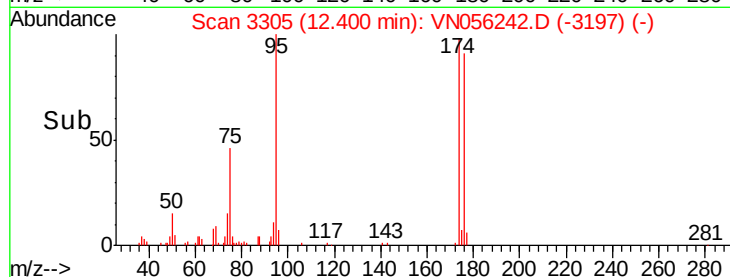
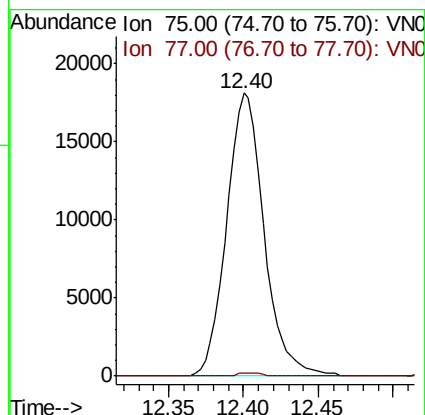
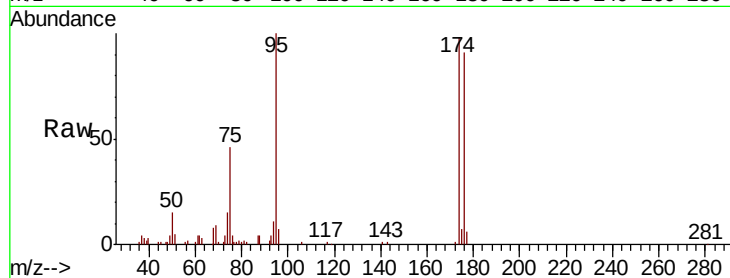
OF-3

Tot Ion: 75 Resp: 31583

Ion Ratio Lower Upper

75 100

77 0.7 0.0 350.0



#77

t-1,4-Dichloro-2-butene

Concen: 36.808 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056242.D

Acq: 12 Jun 2019 12:02

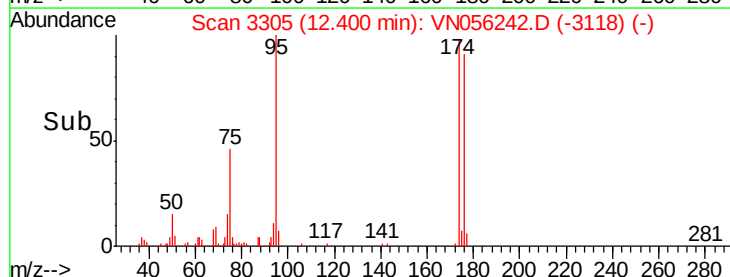
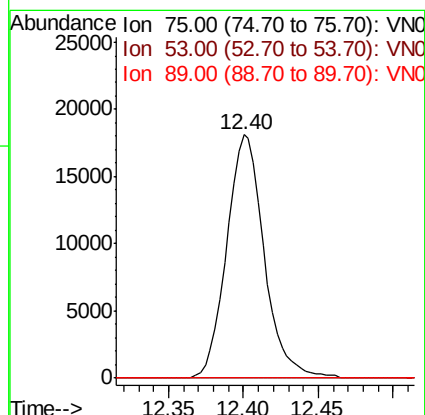
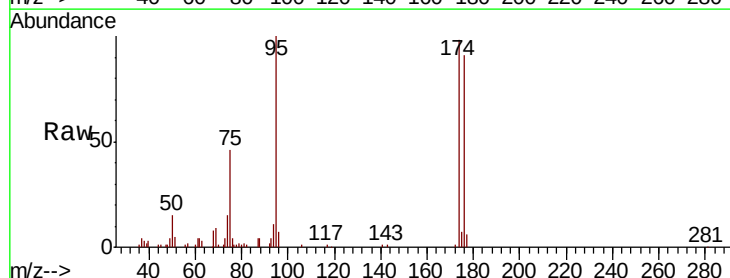
Tgt Ion: 75 Resp: 31583

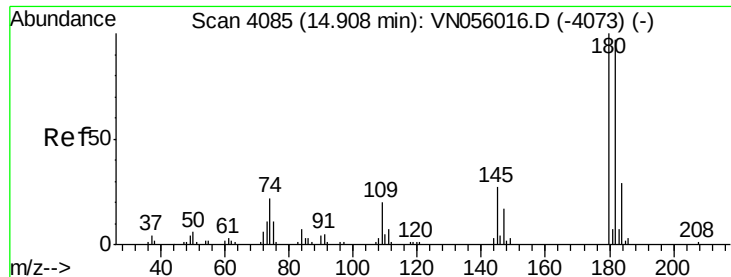
Ion Ratio Lower Upper

75 100

53 0.0 48.0 144.0#

89 0.0 22.5 67.5#

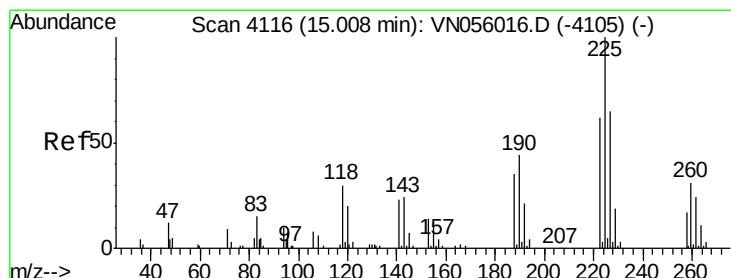
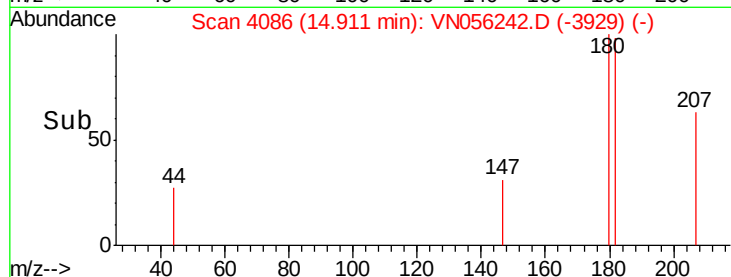
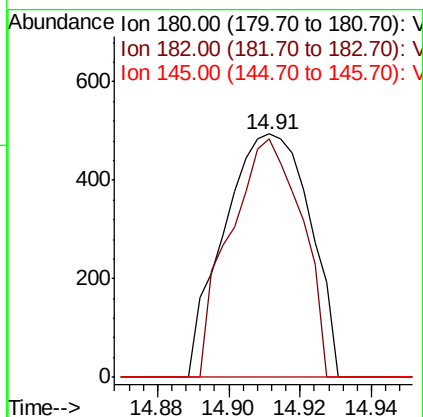
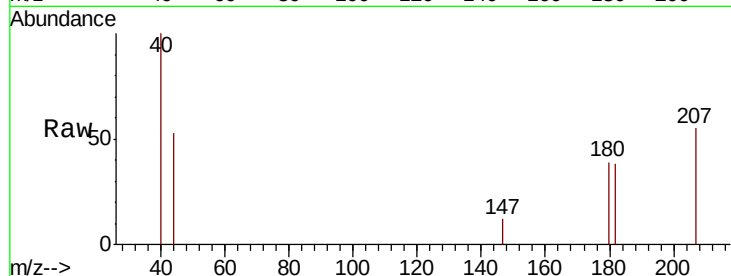




#89
 1,2,4-Trichlorobenzene
 Concen: 8.791 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN056242.D
 Acq: 12 Jun 2019 12:02

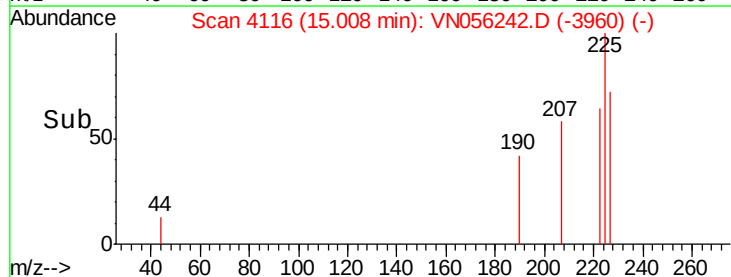
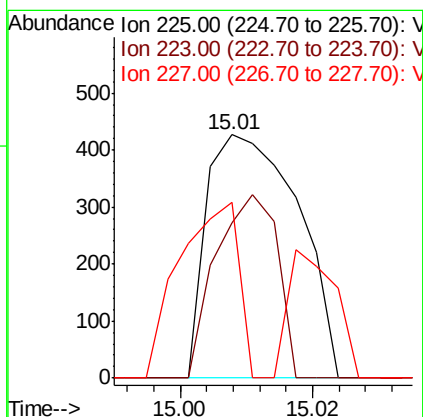
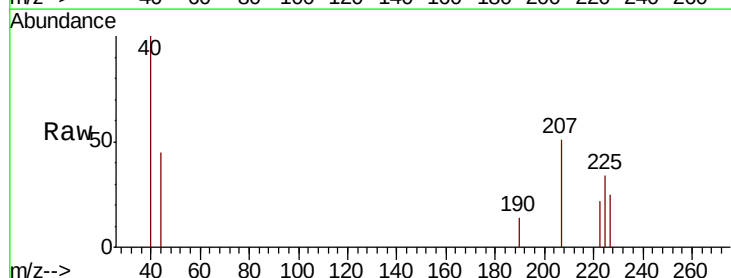
Instrument :
 MSVOA_N
 ClientSampled :
 OF-3

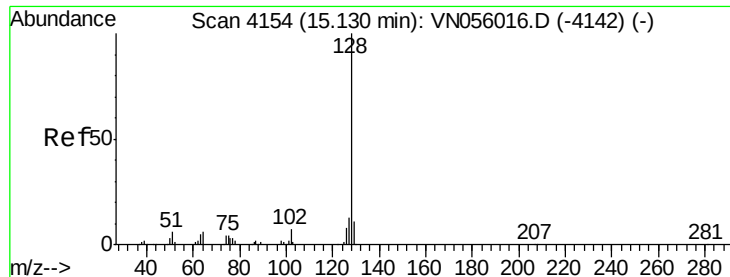
Tot Ion:180 Resp: 820
 Ion Ratio Lower Upper
 180 100
 182 81.7 75.0 112.6
 145 0.0 22.1 33.1#



#90
 Hexachlorobutadiene
 Concen: 0.231 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN056242.D
 Acq: 12 Jun 2019 12:02

Tgt Ion:225 Resp: 409
 Ion Ratio Lower Upper
 225 100
 223 50.4 0.0 125.6
 227 47.2 0.0 128.6





#91

Naphthalene

Concen: 0.385 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056242.D

Acq: 12 Jun 2019 12:02

Instrument :

MSVOA_N

ClientSampleId :

OF-3

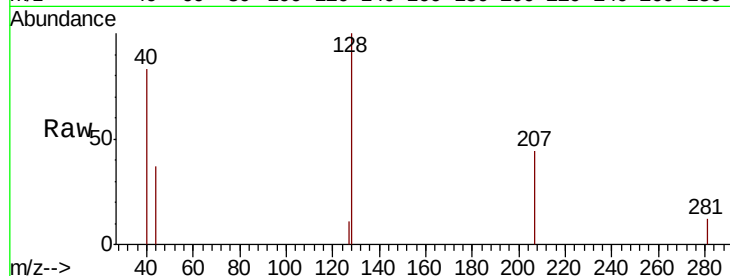
Tot Ion:128 Resp: 2476

Ion Ratio Lower Upper

128 100

127 3.8 10.4 15.6#

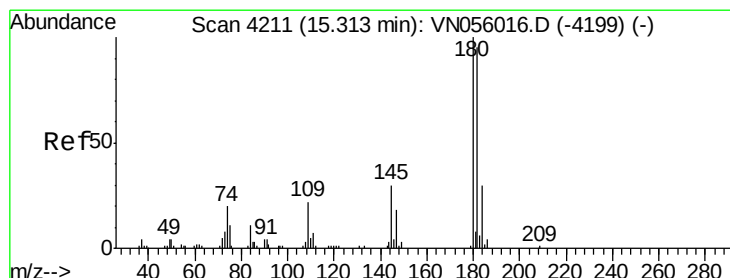
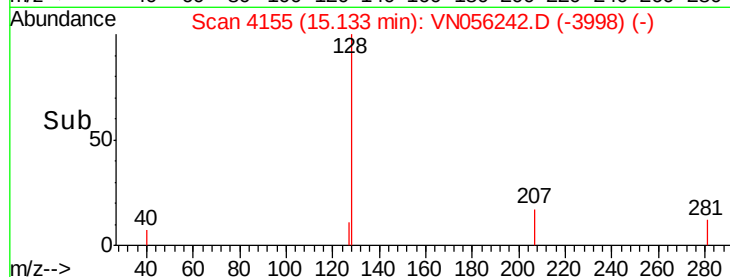
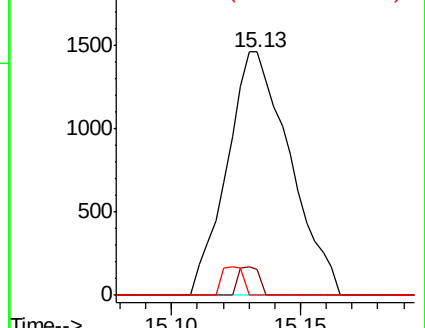
129 0.0 8.7 13.1#



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



#92

1,2,3-Trichlorobenzene

Concen: 0.420 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN056242.D

Acq: 12 Jun 2019 12:02

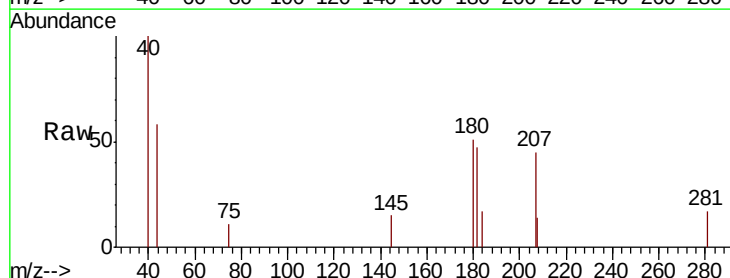
Tgt Ion:180 Resp: 1064

Ion Ratio Lower Upper

180 100

182 104.6 0.0 193.4

145 9.6 0.0 59.8



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

