

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071519\
 Data File : VN056748.D
 Acq On : 16 Jul 2019 6:00
 Operator : JC/SP
 Sample : K3620-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 56 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CL-01-071219-E

Quant Time: Jul 16 06:45:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 01:25:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	271581	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	488405	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	518908	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	212293	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	159753	53.18	ug/l	0.00
Spiked Amount			Recovery	=	106.36%	
35) Dibromofluoromethane	7.59	113	146546	48.21	ug/l	0.00
Spiked Amount			Recovery	=	96.42%	
50) Toluene-d8	10.09	98	619124	52.74	ug/l	0.00
Spiked Amount			Recovery	=	105.48%	
62) 4-Bromofluorobenzene	12.40	95	235563	59.50	ug/l	0.00
Spiked Amount			Recovery	=	119.00%	

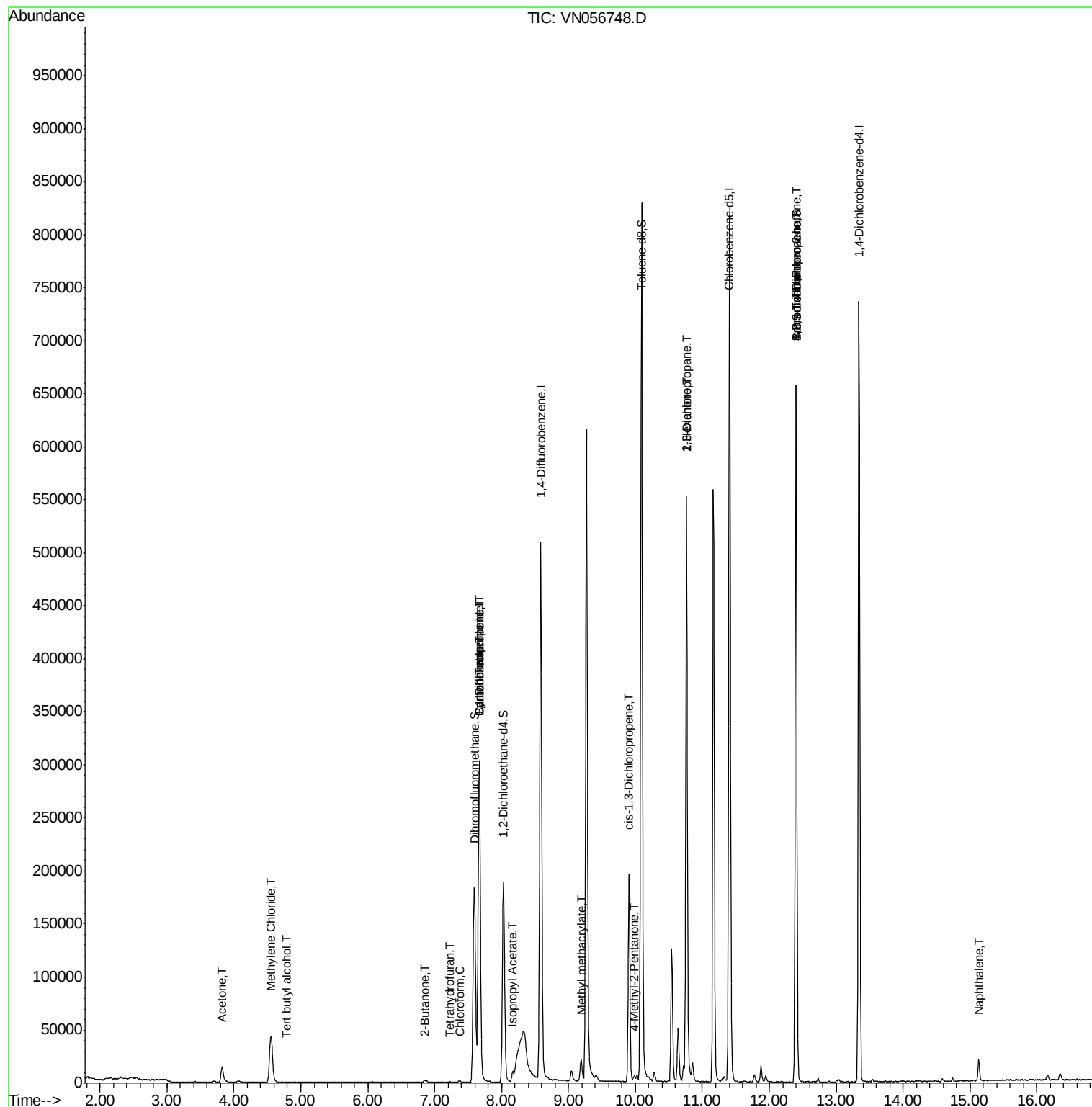
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.78	59	145	0.290	ug/l #	73
16) Acetone	3.82	43	25020	18.074	ug/l	96
18) Methyl Acetate	4.34	43	846	Below Cal	#	52
20) Methylene Chloride	4.56	84	36546	12.080	ug/l	98
25) 2-Butanone	6.85	43	5433	2.684	ug/l	98
29) Tetrahydrofuran	7.22	42	355	0.269	ug/l #	41
30) Chloroform	7.37	83	2350	0.465	ug/l	98
31) Cyclohexane	7.66	56	4012	0.835	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	17807	3.940	ug/l #	48
38) Carbon Tetrachloride	7.67	117	23953	5.651	ug/l #	16
43) Isopropyl Acetate	8.17	43	11322	1.617	ug/l #	90
48) Methyl methacrylate	9.18	41	6970	2.058	ug/l #	22
51) 4-Methyl-2-Pentanone	9.99	43	3778	0.833	ug/l #	77
54) cis-1,3-Dichloropropene	9.90	75	38957	7.426	ug/l #	61
57) 1,3-Dichloropropane	10.76	76	6106	1.084	ug/l #	42
59) 2-Hexanone	10.76	43	81730	25.114	ug/l #	52
71) Bromoform	12.40	173	1769	0.595	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	108089	23.279	ug/l #	100
79) 2-Chlorotoluene	12.59	91	424	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	108089	71.894	ug/l #	13
83) tert-Butylbenzene	13.04	119	29	Below Cal	#	1
95) Naphthalene	15.13	128	18509	6.006	ug/l	98

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

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QLast Update : Tue Jul 16 01:25:25 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: VN056748.D

Acq: 16 Jul 2019 6:00

Instrument :

MSVOA_N

ClientSampleId :

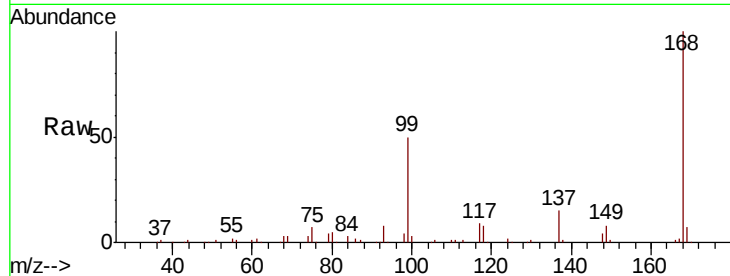
CL-01-071219-E

Tot Ion:168 Resp: 271581

Ion Ratio Lower Upper

168 100

99 50.0 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): VN056748.D (-1739) (-)

Ion 98.90 (98.60 to 99.60): VN056748.D (-1739) (-)

7.67

120000

100000

80000

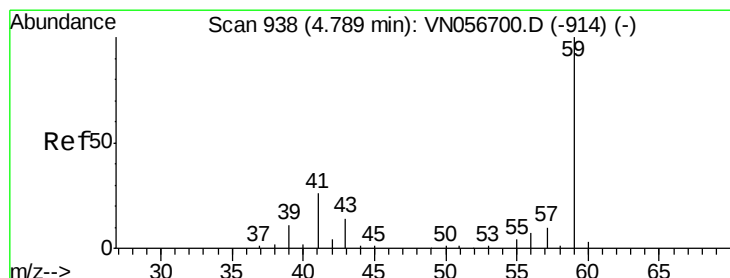
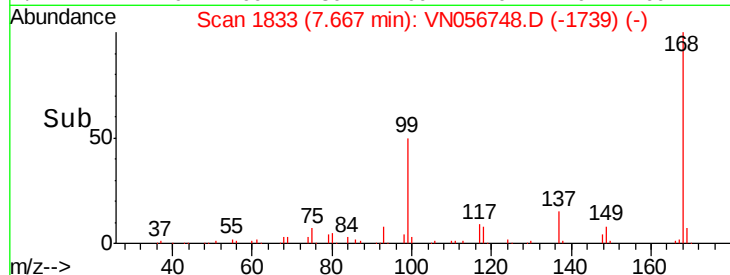
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.290 ug/l

RT: 4.78 min Scan# 935

Delta R.T. -0.01 min

Lab File: VN056748.D

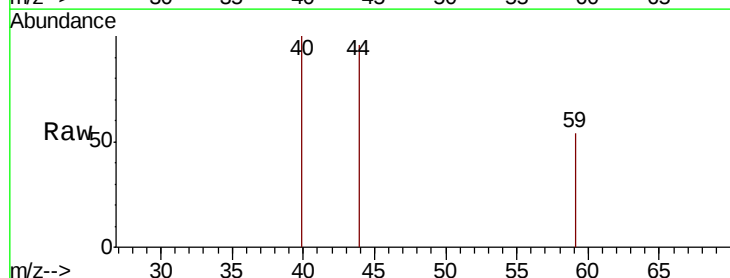
Acq: 16 Jul 2019 6:00

Tgt Ion: 59 Resp: 145

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VN056748.D (-845) (-)

Ion 57.00 (56.70 to 57.70): VN056748.D (-845) (-)

4.78

250

200

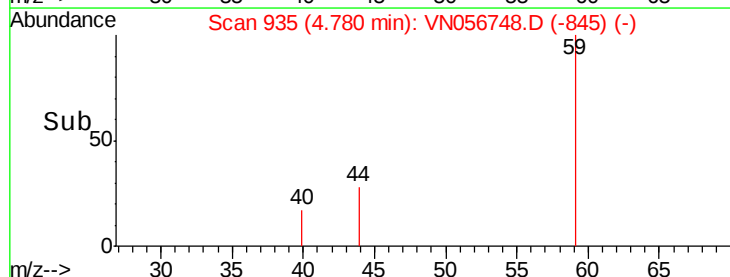
150

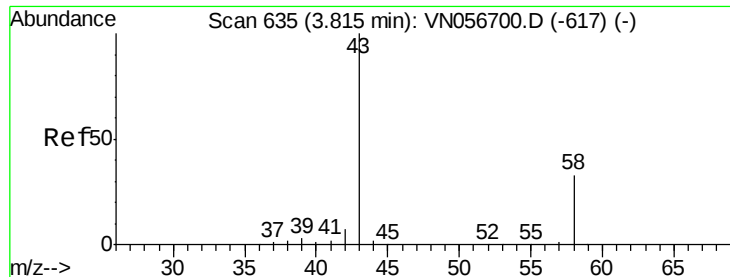
100

50

0

Time-->





#16

Acetone

Concen: 18.074 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN056748.D

Acq: 16 Jul 2019 6:00

Instrument :

MSVOA_N

ClientSampleId :

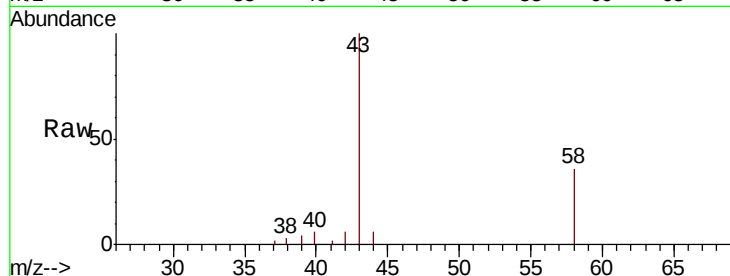
CL-01-071219-E

Tot Ion: 43 Resp: 25020

Ion Ratio Lower Upper

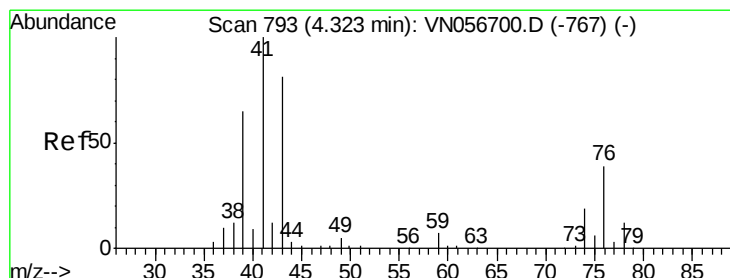
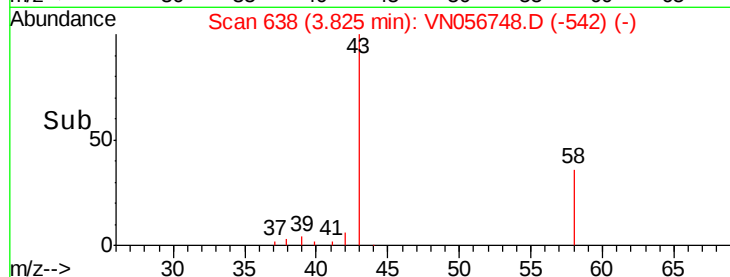
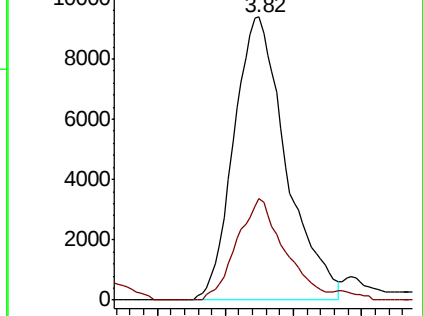
43 100

58 35.8 26.7 40.1



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: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN056748.D

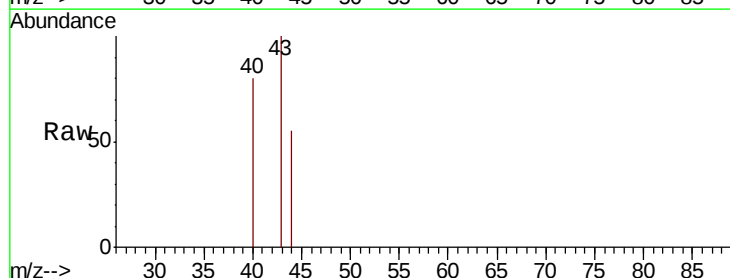
Acq: 16 Jul 2019 6:00

Tgt Ion: 43 Resp: 846

Ion Ratio Lower Upper

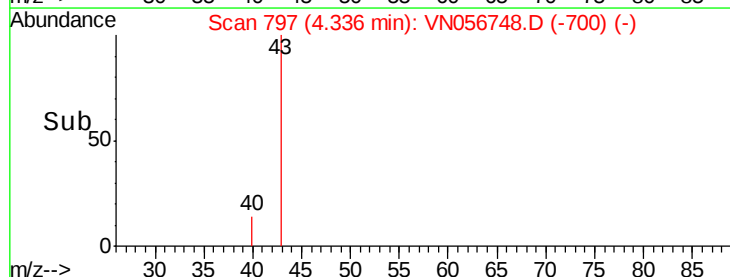
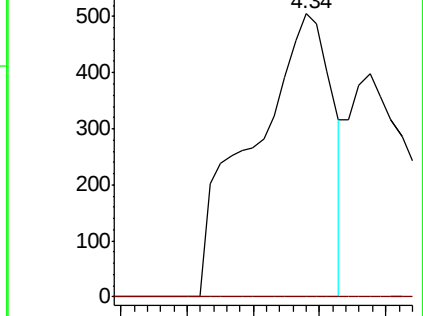
43 100

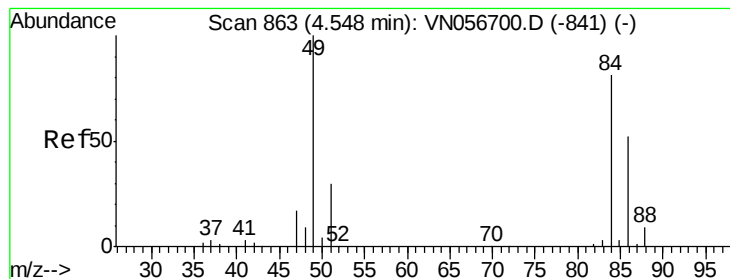
74 0.0 18.9 28.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#20

Methvlene Chloride

Concen: 12.080 ug/l

RT: 4.56 min Scan# 866

Delta R.T. 0.01 min

Lab File: VN056748.D

Acq: 16 Jul 2019 6:00

Instrument :

MSVOA_N

ClientSampleId :

CL-01-071219-E

Tot Ion: 84 Resp: 36546

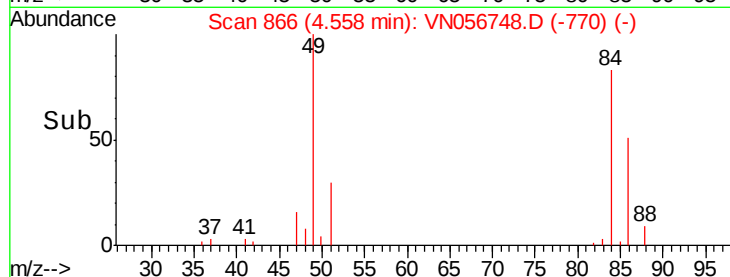
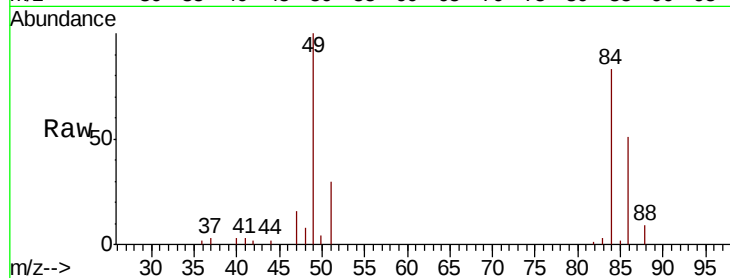
Ion Ratio Lower Upper

84 100

49 121.0 98.2 147.4

51 36.4 29.6 44.4

86 61.5 51.0 76.4

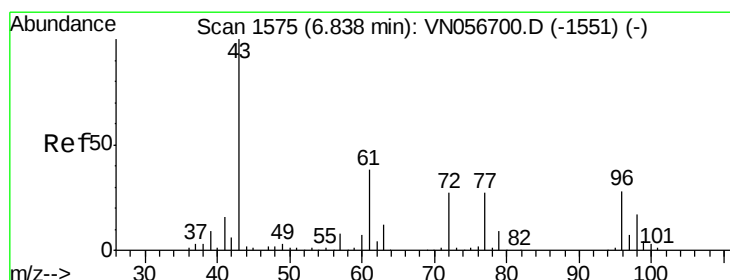
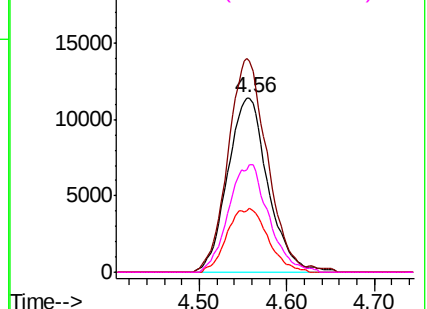


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 2.684 ug/l

RT: 6.85 min Scan# 1580

Delta R.T. 0.02 min

Lab File: VN056748.D

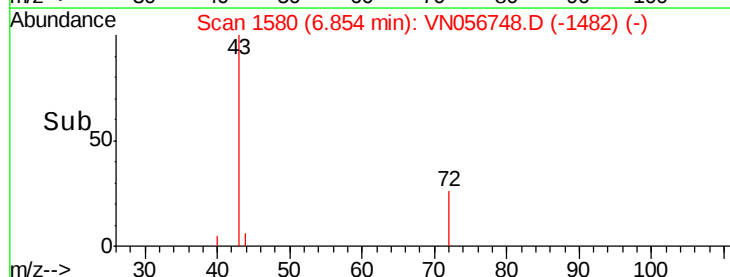
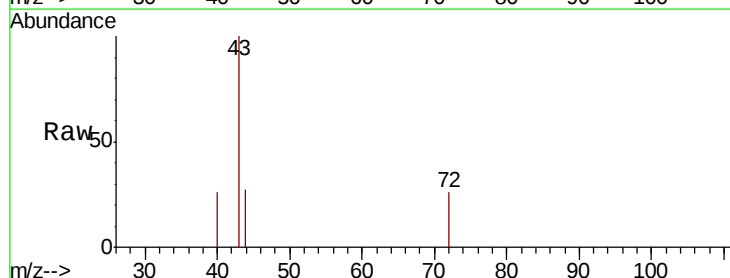
Acq: 16 Jul 2019 6:00

Tgt Ion: 43 Resp: 5433

Ion Ratio Lower Upper

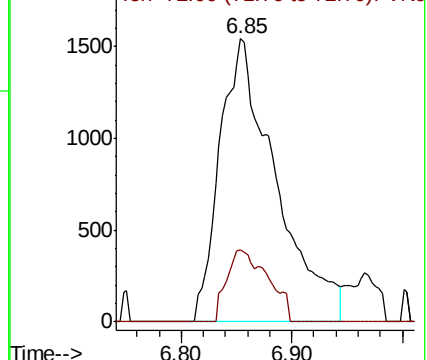
43 100

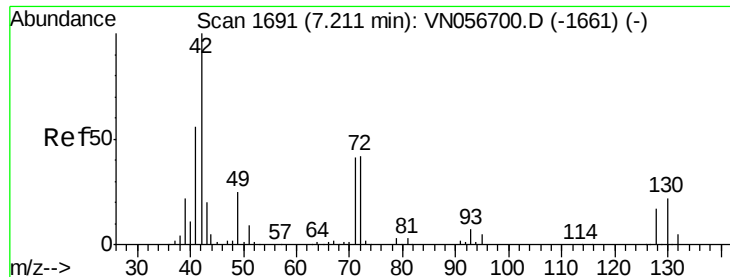
72 25.5 21.2 31.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

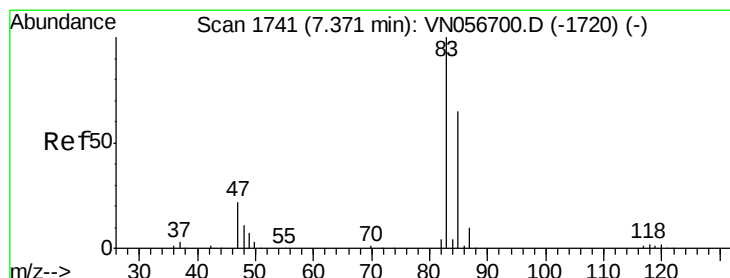
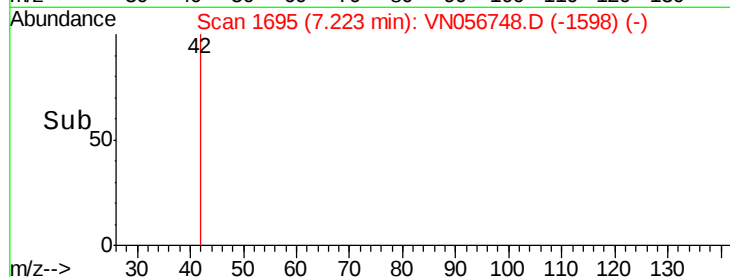
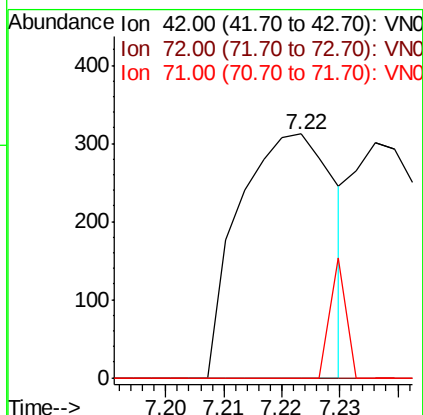
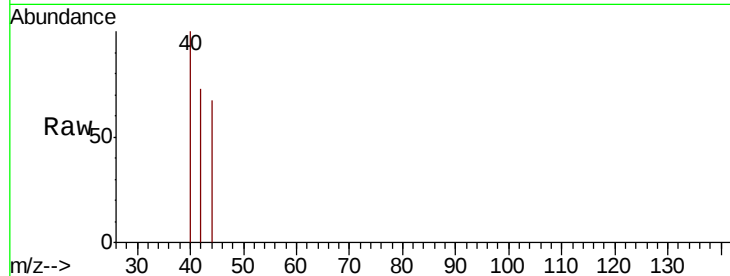




#29
Tetrahydrofuran
Concen: 0.269 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.01 min
Lab File: VN056748.D
Acq: 16 Jul 2019 6:00

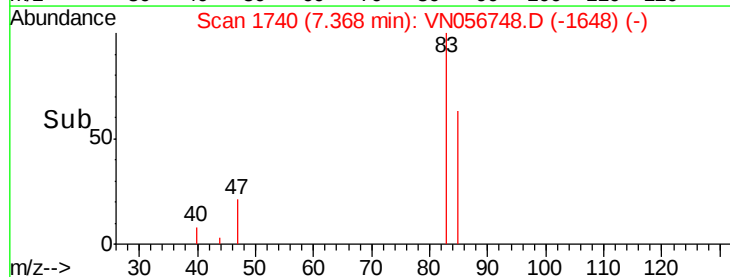
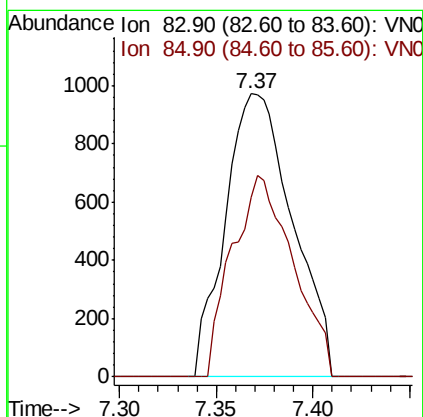
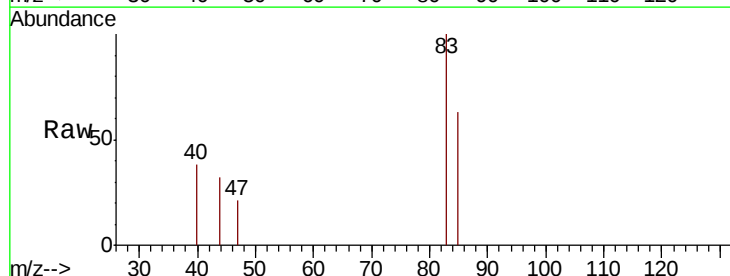
Instrument :
MSVOA_N
ClientSampleId :
CL-01-071219-E

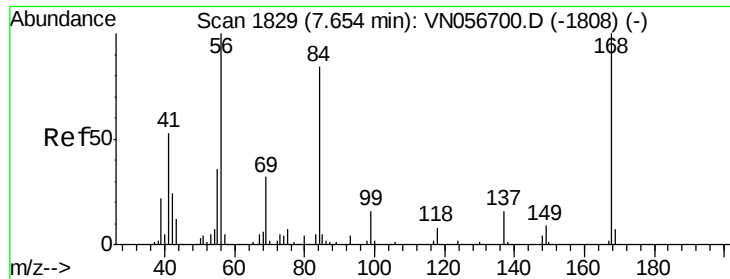
Tot Ion: 42 Resp: 355
Ion Ratio Lower Upper
42 100
72 0.0 33.5 50.3#
71 8.5 31.8 47.8#



#30
Chloroform
Concen: 0.465 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VN056748.D
Acq: 16 Jul 2019 6:00

Tgt Ion: 83 Resp: 2350
Ion Ratio Lower Upper
83 100
85 63.5 51.9 77.9





#31

Cyclohexane

Concen: 0.835 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN056748.D

Acq: 16 Jul 2019 6:00

Instrument :

MSVOA_N

ClientSampleId :

CL-01-071219-E

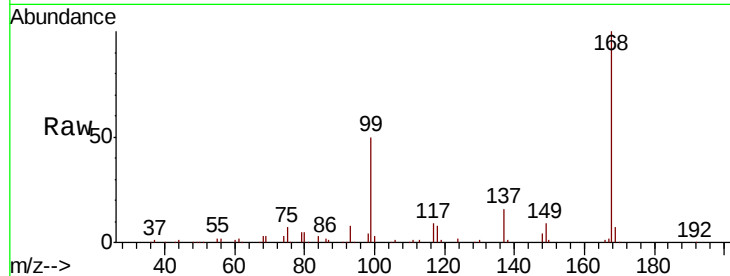
Tot Ion: 56 Resp: 4012

Ion Ratio Lower Upper

56 100

69 198.0 25.8 38.8#

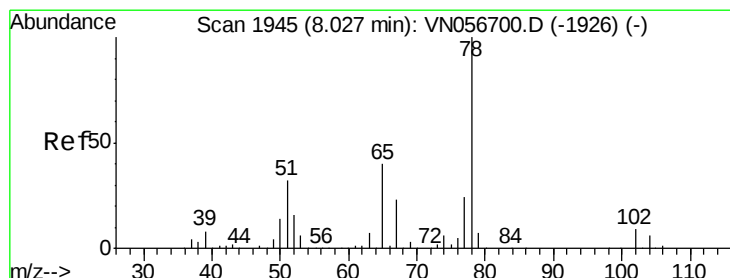
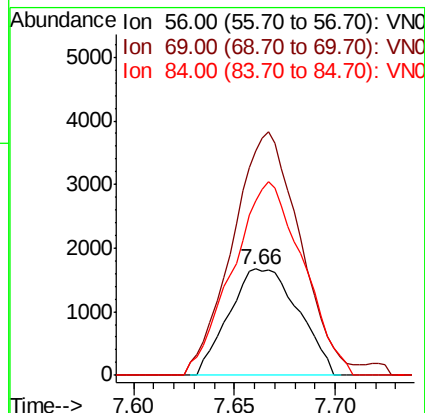
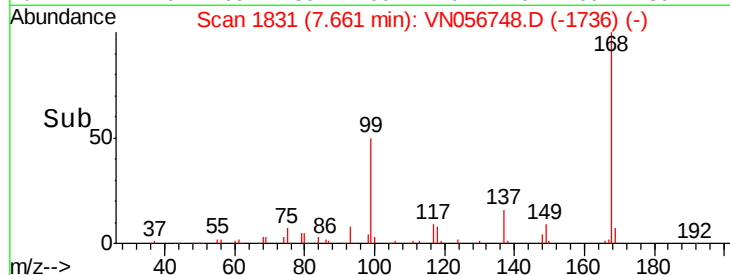
84 151.8 67.4 101.0#



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: 53.179 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN056748.D

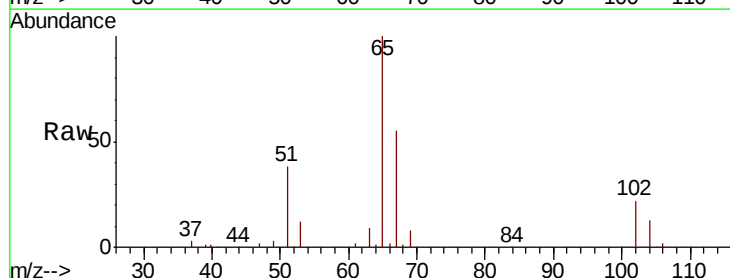
Acq: 16 Jul 2019 6:00

Tgt Ion: 65 Resp: 159753

Ion Ratio Lower Upper

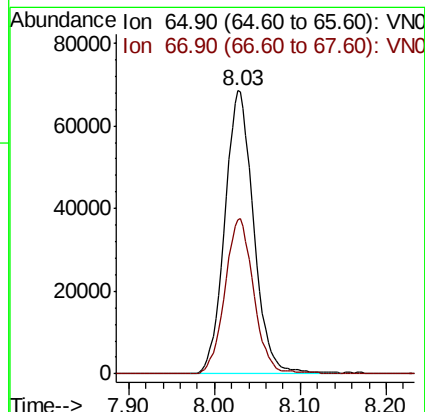
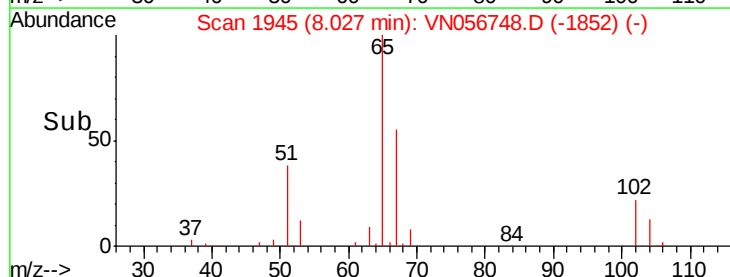
65 100

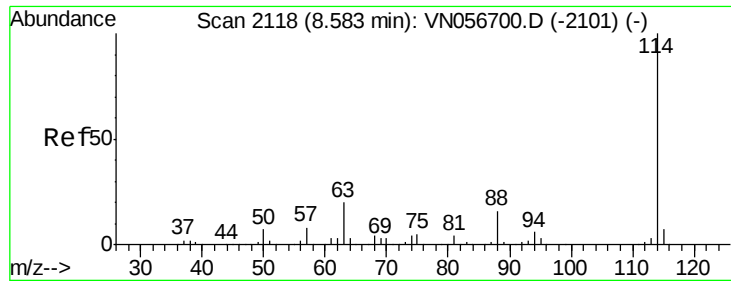
67 54.9 0.0 109.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

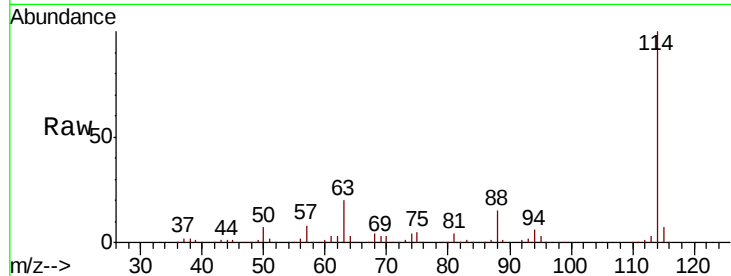




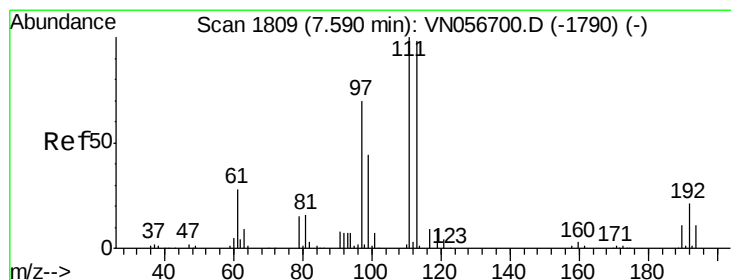
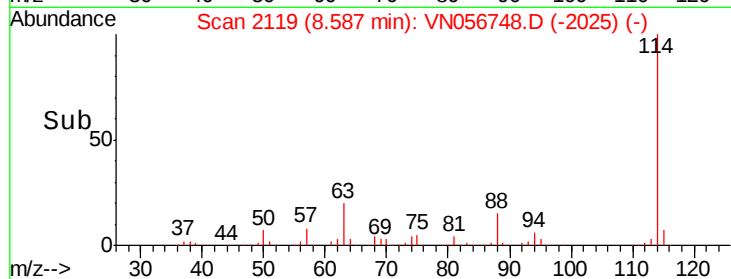
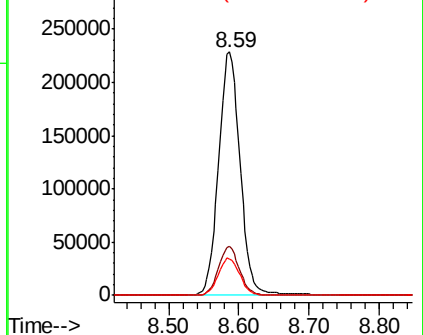
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056748.D
 Acq: 16 Jul 2019 6:00

Instrument :
 MSVOA_N
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 CL-01-071219-E

Tot Ion:114 Resp: 488405
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 39.4
 88 15.1 0.0 31.2

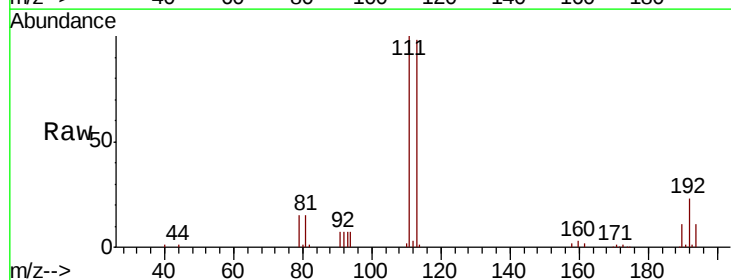


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

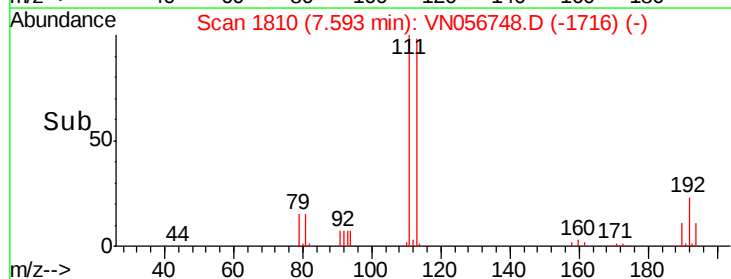
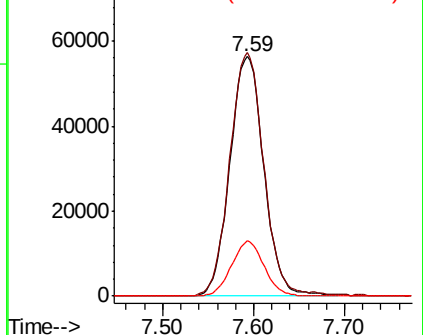


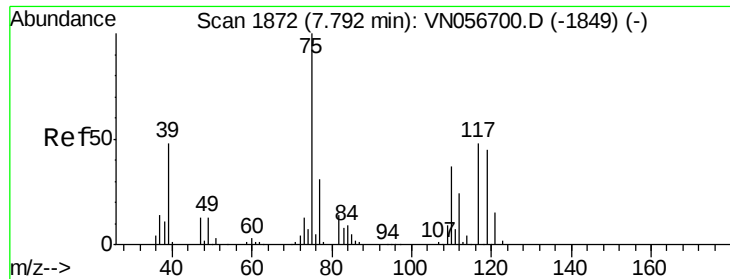
#35
 Dibromofluoromethane
 Concen: 48.215 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN056748.D
 Acq: 16 Jul 2019 6:00

Tgt Ion:113 Resp: 146546
 Ion Ratio Lower Upper
 113 100
 111 100.9 81.8 122.6
 192 22.1 17.5 26.3



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

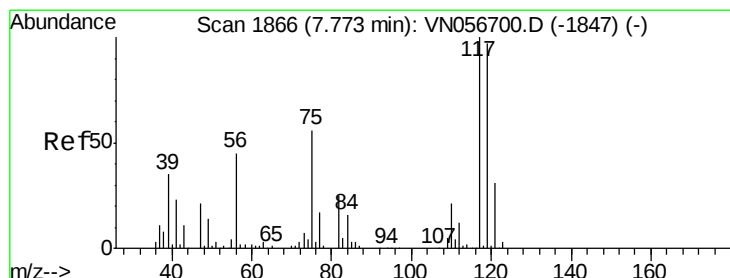
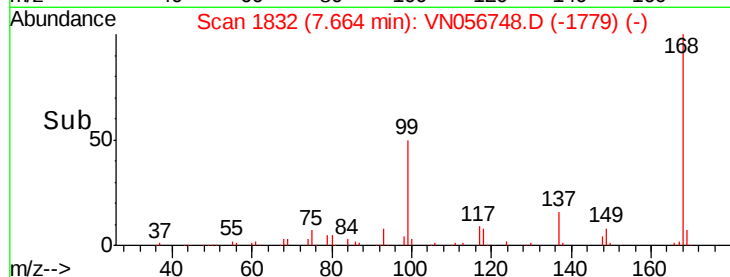
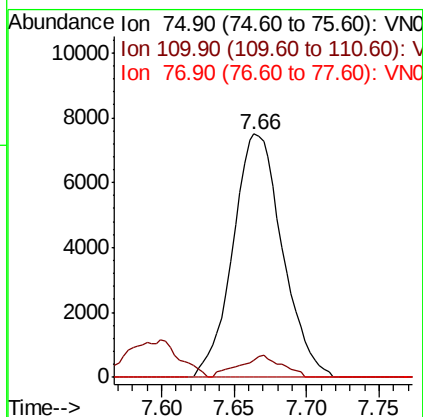
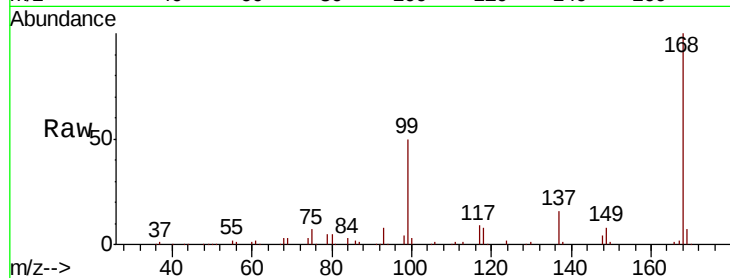




#36
 1,1-Dichloropropene
 Concen: 3.940 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056748.D
 Acq: 16 Jul 2019 6:00

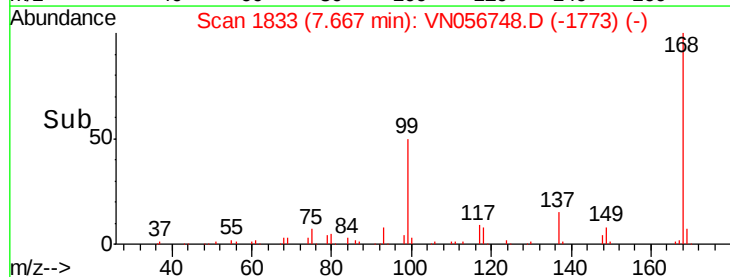
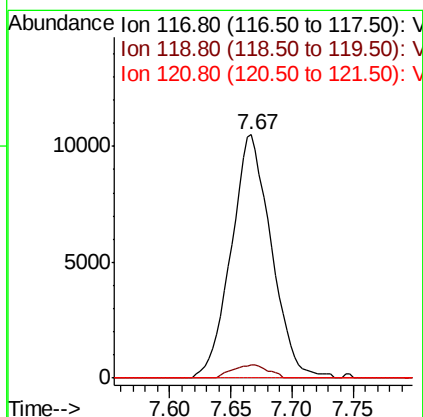
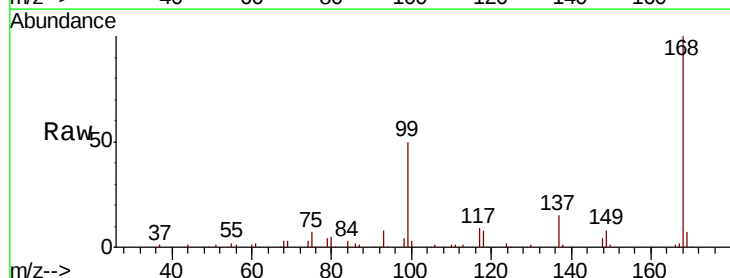
Instrument :
 MSVOA_N
 ClientSampleId :
 CL-01-071219-E

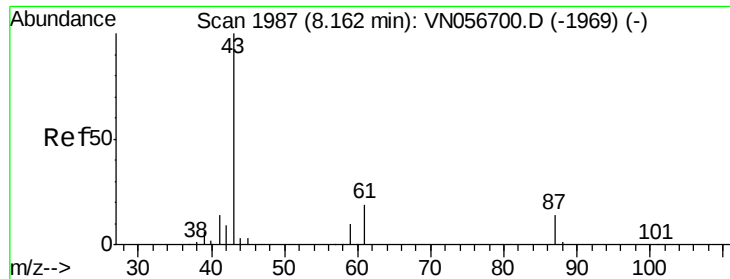
Tot Ion	75	Resp	17807
Ion Ratio	Lower	Upper	
75	100		
110	7.6	18.4	55.4#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.651 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN056748.D
 Acq: 16 Jul 2019 6:00

Tgt Ion	117	Resp	23953
Ion Ratio	Lower	Upper	
117	100		
119	5.3	77.5	116.3#
121	0.0	24.7	37.1#





#43

Isopropyl Acetate

Concen: 1.617 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN056748.D

Acq: 16 Jul 2019 6:00

Instrument :

MSVOA_N

ClientSampleId :

CL-01-071219-E

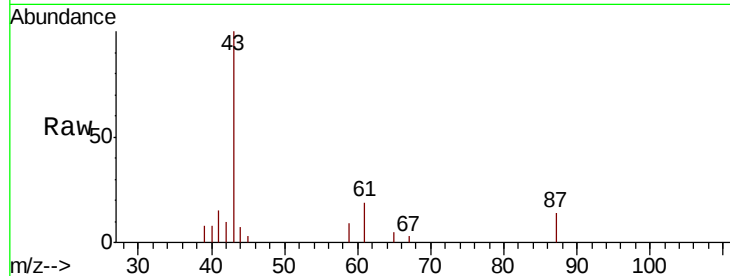
Tot Ion: 43 Resp: 11322

Ion Ratio Lower Upper

43 100

61 21.4 22.3 33.5#

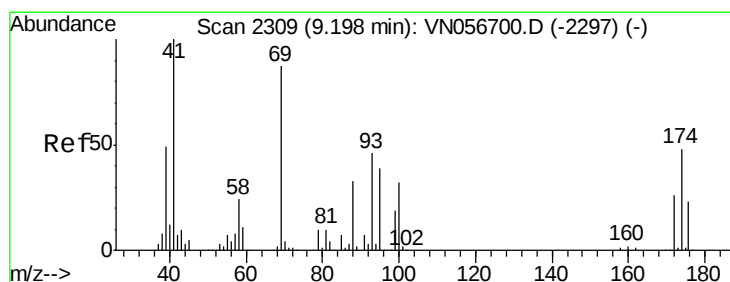
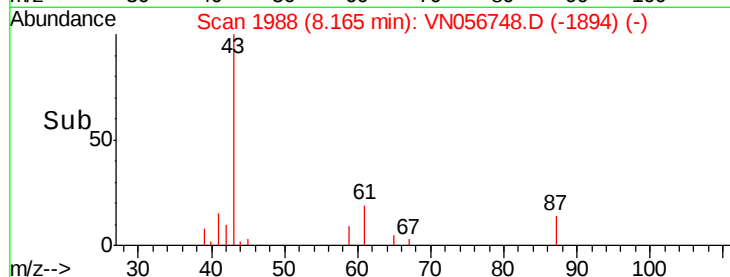
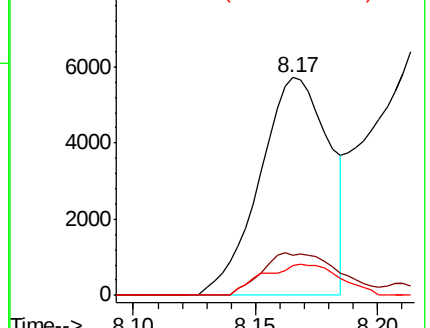
87 15.7 11.1 16.7



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



#48

Methyl methacrylate

Concen: 2.058 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN056748.D

Acq: 16 Jul 2019 6:00

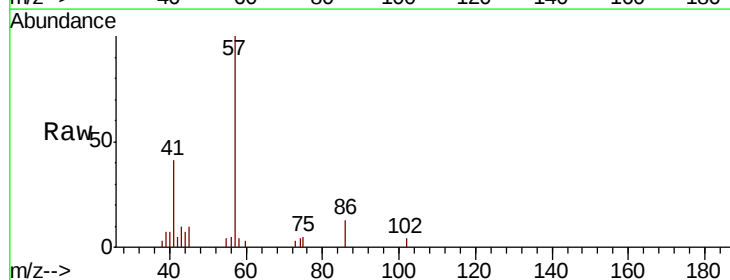
Tgt Ion: 41 Resp: 6970

Ion Ratio Lower Upper

41 100

69 0.0 71.4 107.0#

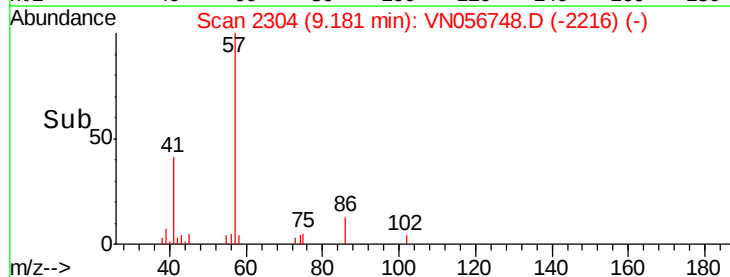
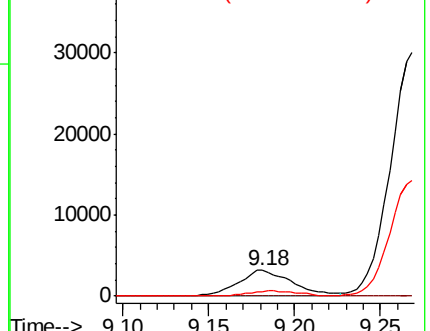
39 17.4 41.2 61.8#

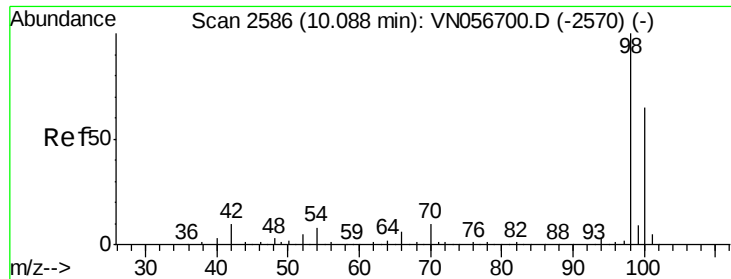


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 52.741 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056748.D

Acq: 16 Jul 2019 6:00

Instrument :

MSVOA_N

ClientSampled :

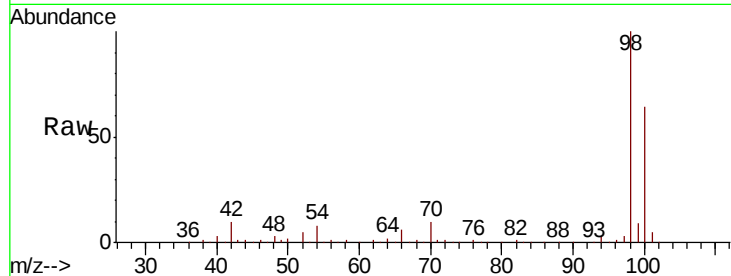
CL-01-071219-E

Tot Ion: 98 Resp: 619124

Ion Ratio Lower Upper

98 100

100 63.8 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN056700.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN056700.D (-2570) (-)

10.09

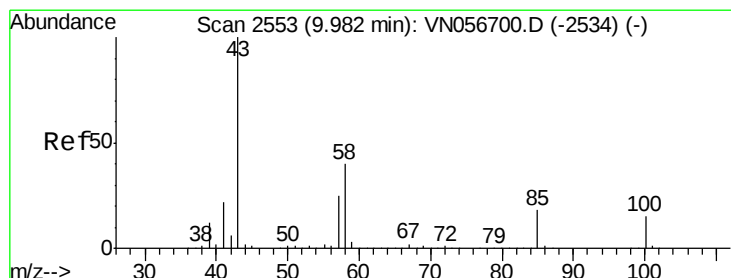
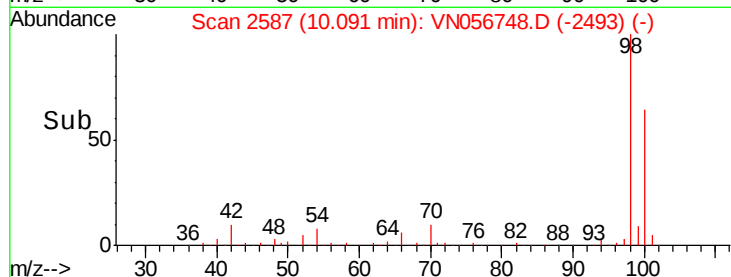
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.833 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN056748.D

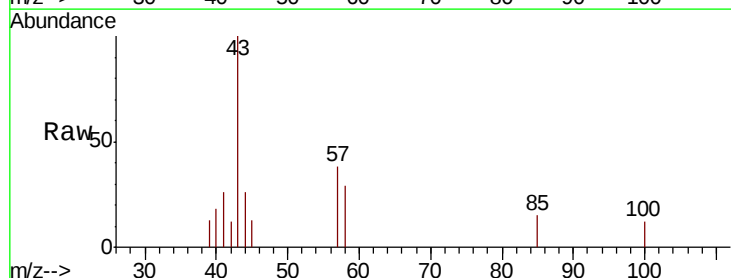
Acq: 16 Jul 2019 6:00

Tgt Ion: 43 Resp: 3778

Ion Ratio Lower Upper

43 100

58 25.8 32.0 48.0#



Abundance Ion 43.00 (42.70 to 43.70): VN056700.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN056700.D (-2534) (-)

9.99

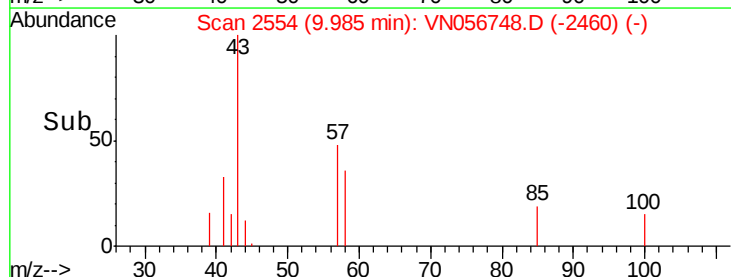
3000

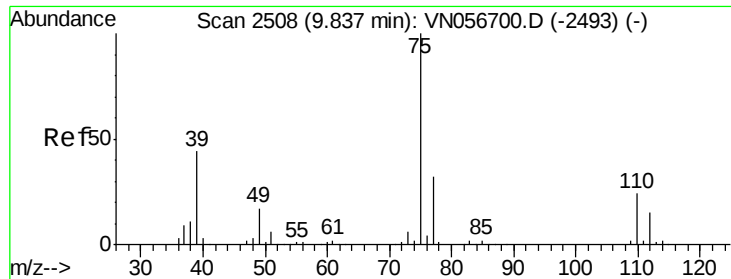
2000

1000

0

Time-->

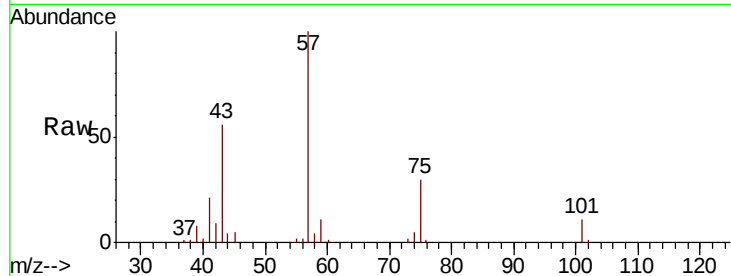




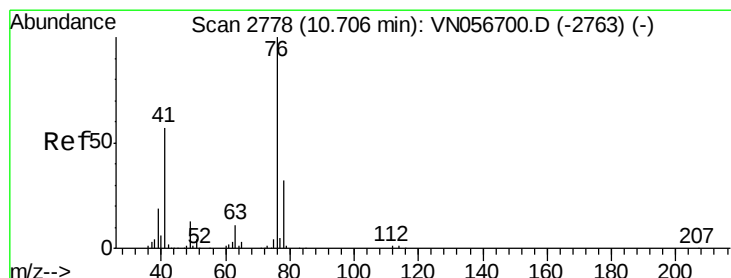
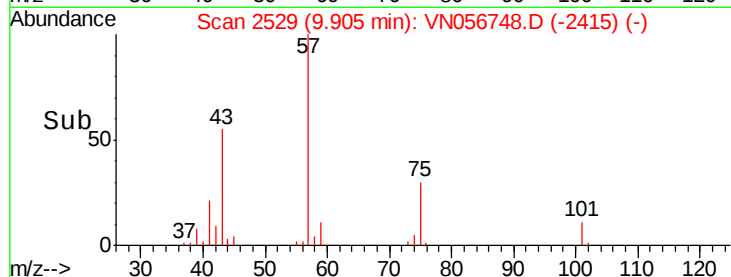
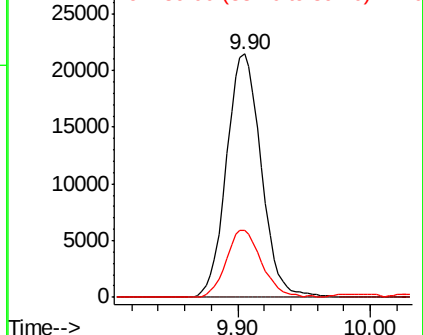
#54
 cis-1,3-Dichloropropene
 Concen: 7.426 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN056748.D
 Acq: 16 Jul 2019 6:00

Instrument :
 MSVOA_N
 ClientSampleId :
 CL-01-071219-E

Tot Ion: 75 Resp: 38957
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.0 39.0#
 39 27.3 35.1 52.7#

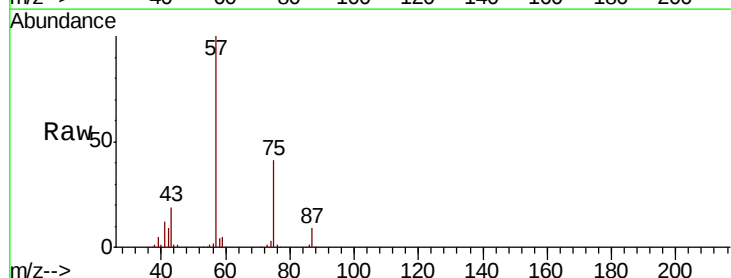


Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 76.90 (76.60 to 77.60): VNO
 Ion 39.00 (38.70 to 39.70): VNO

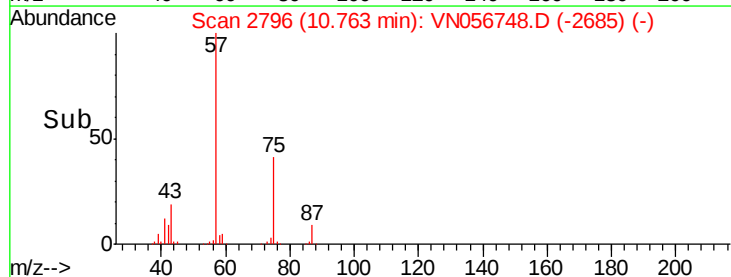
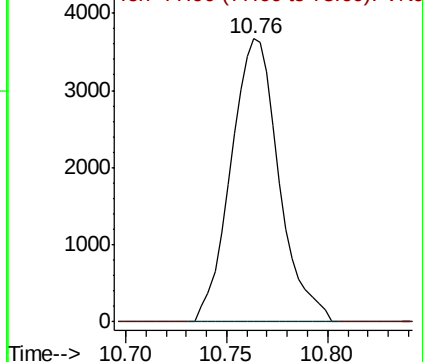


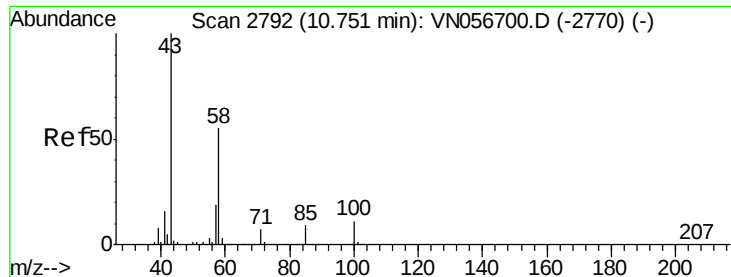
#57
 1,3-Dichloropropane
 Concen: 1.084 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN056748.D
 Acq: 16 Jul 2019 6:00

Tgt Ion: 76 Resp: 6106
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#



Abundance Ion 75.90 (75.60 to 76.60): VNO
 Ion 77.90 (77.60 to 78.60): VNO

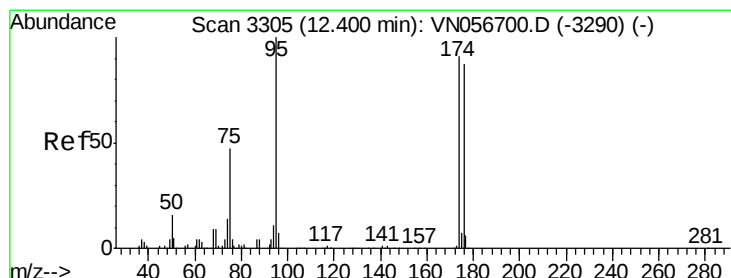
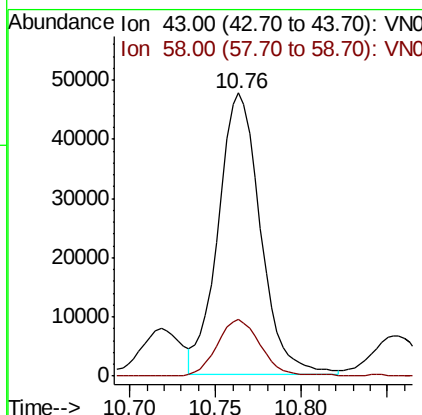
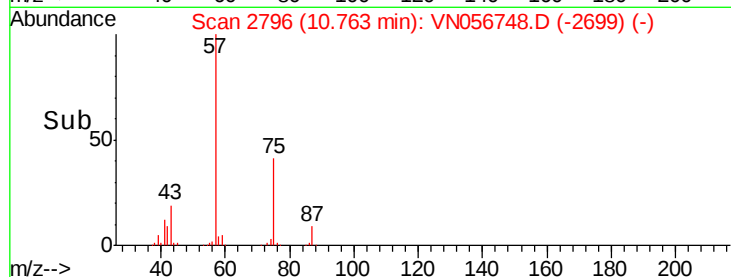
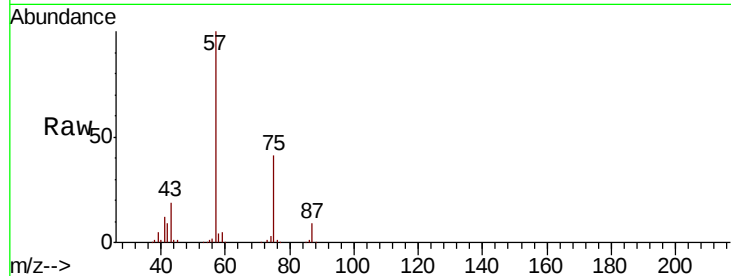




#59
2-Hexanone
Concen: 25.114 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN056748.D
Acq: 16 Jul 2019 6:00

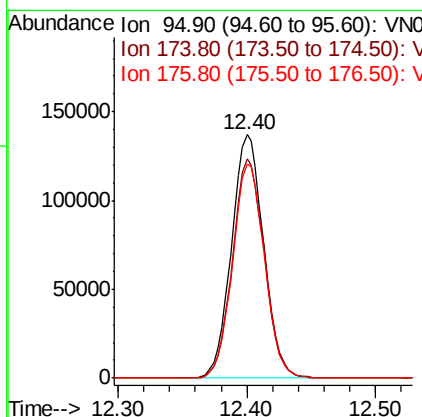
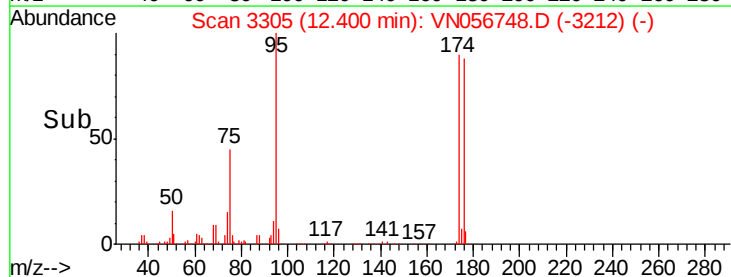
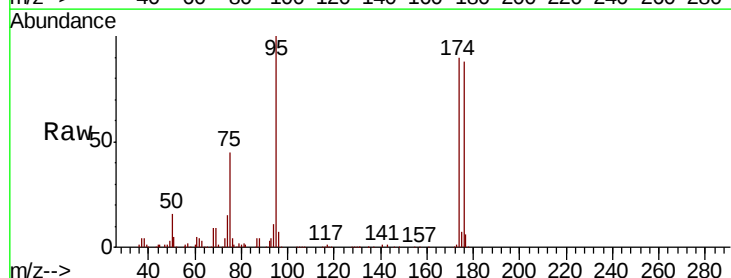
Instrument :
MSVOA_N
ClientSampled :
CL-01-071219-E

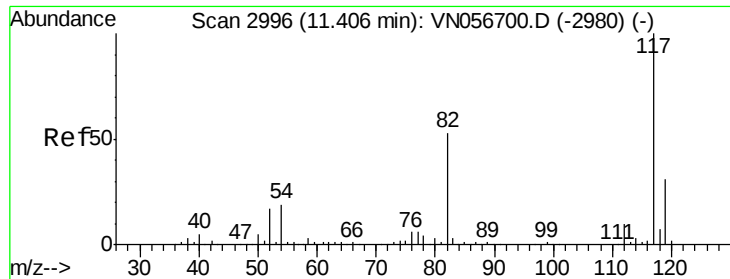
Tot Ion: 43 Resp: 81730
Ion Ratio Lower Upper
43 100
58 20.9 27.9 83.6#



#62
4-Bromofluorobenzene
Concen: 59.504 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN056748.D
Acq: 16 Jul 2019 6:00

Tgt Ion: 95 Resp: 235563
Ion Ratio Lower Upper
95 100
174 90.5 0.0 180.0
176 87.8 0.0 173.2

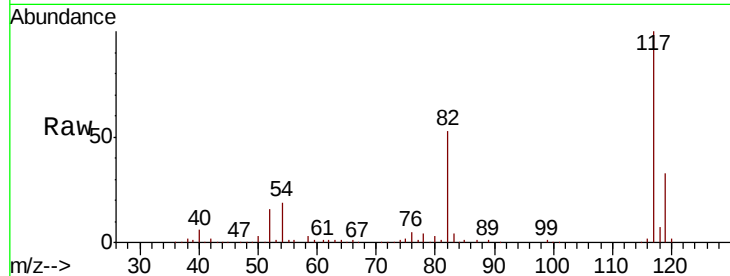




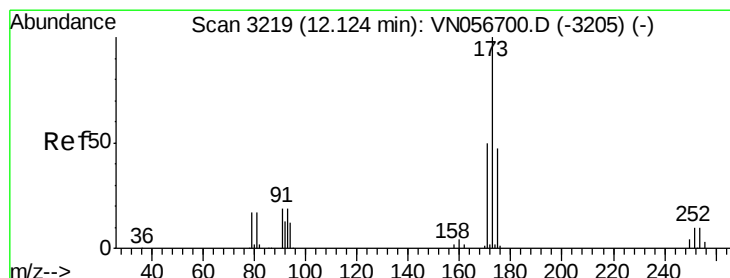
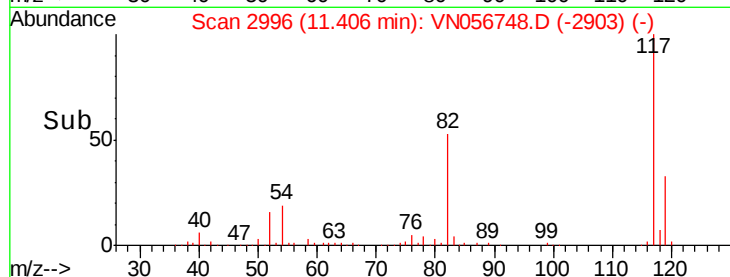
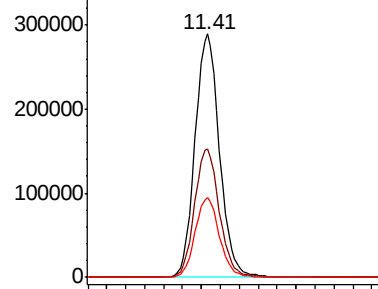
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056748.D
Acq: 16 Jul 2019 6:00

Instrument :
MSVOA_N
ClientSampleId :
CL-01-071219-E

Tot Ion:117 Resp: 518908
Ion Ratio Lower Upper
117 100
82 52.8 42.2 63.2
119 32.7 25.2 37.8

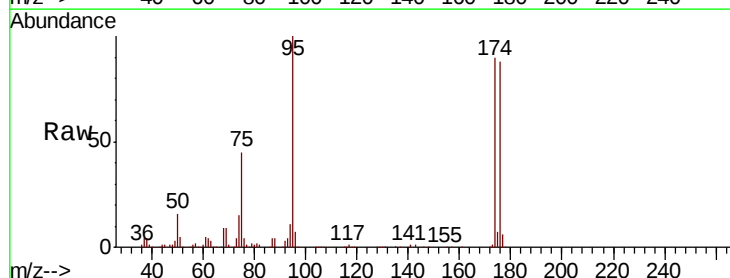


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

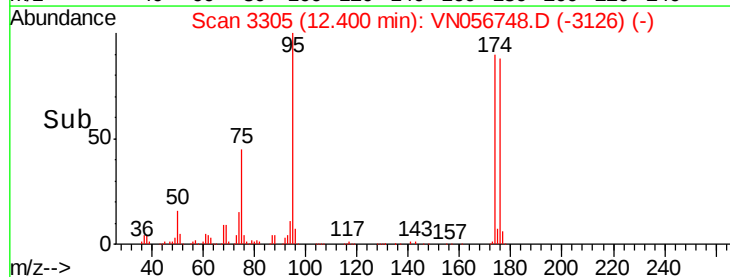
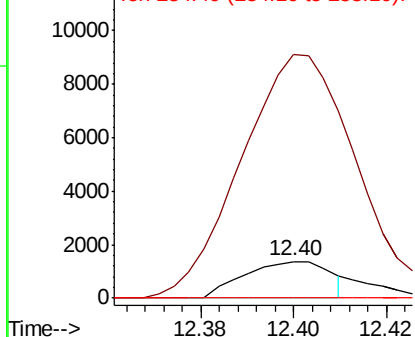


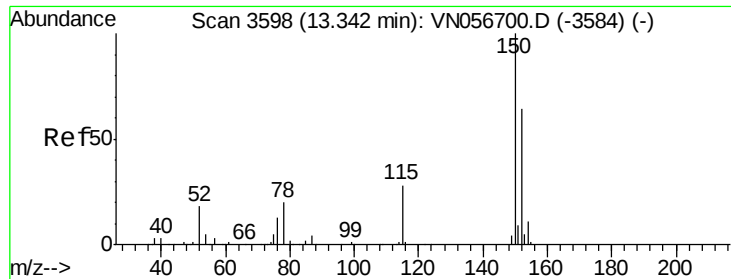
#71
Bromoform
Concen: 0.595 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.28 min
Lab File: VN056748.D
Acq: 16 Jul 2019 6:00

Tgt Ion:173 Resp: 1769
Ion Ratio Lower Upper
173 100
175 716.8 23.8 71.4#
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: VN056748.D

Acq: 16 Jul 2019 6:00

Instrument :

MSVOA_N

ClientSampleId :

CL-01-071219-E

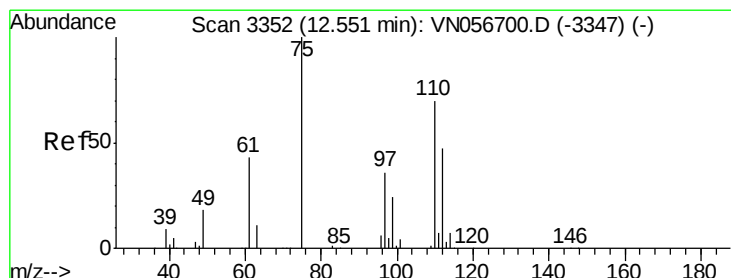
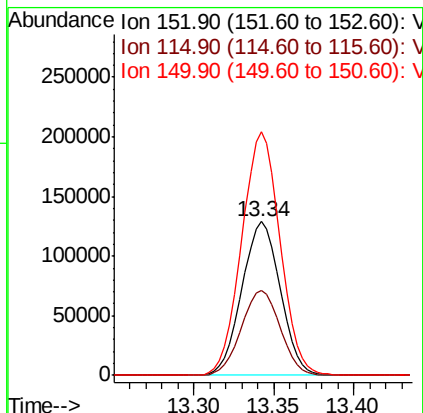
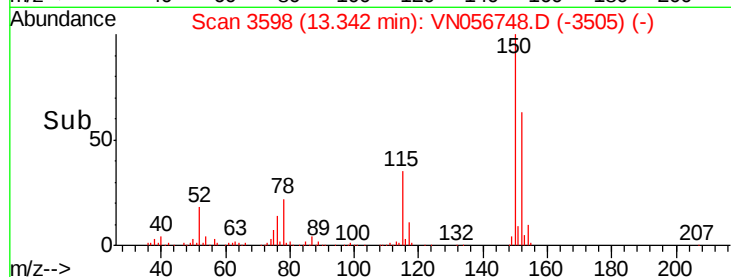
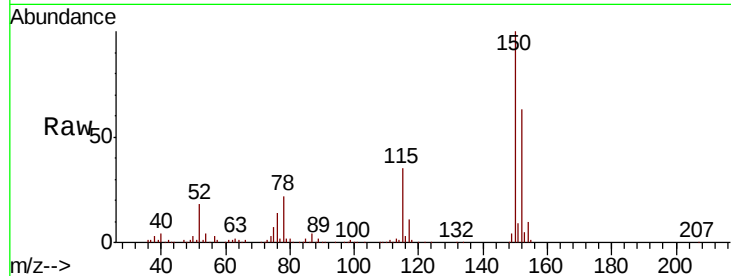
Tot Ion:152 Resp: 212293

Ion Ratio Lower Upper

152 100

115 55.7 28.2 84.7

150 157.8 0.0 345.8



#76

1,2,3-Trichloropropane

Concen: 23.279 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056748.D

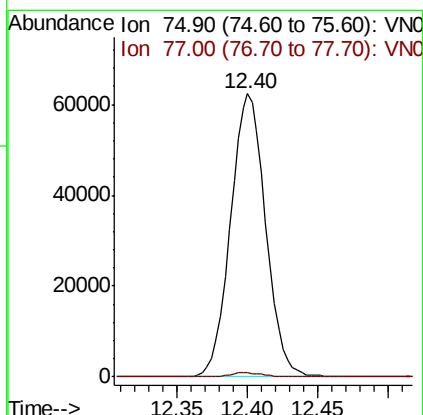
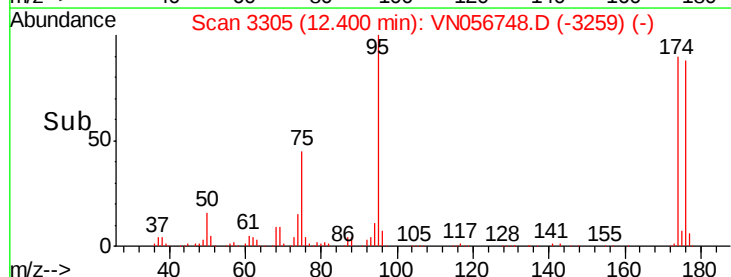
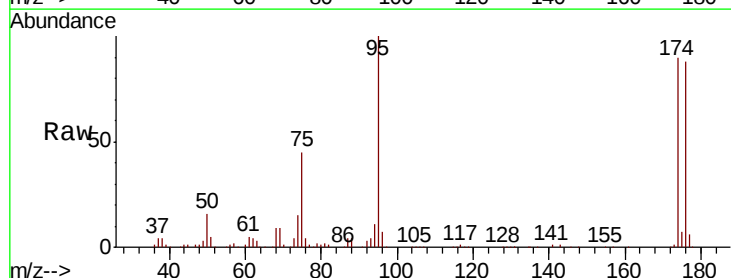
Acq: 16 Jul 2019 6:00

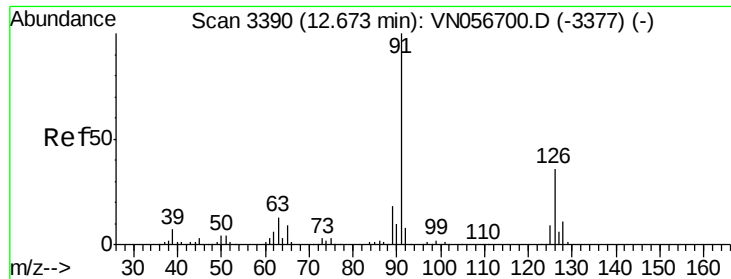
Tgt Ion: 75 Resp: 108089

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.59 min Scan# 3364

Delta R.T. -0.08 min

Lab File: VN056748.D

Acq: 16 Jul 2019 6:00

Instrument :

MSVOA_N

ClientSampled :

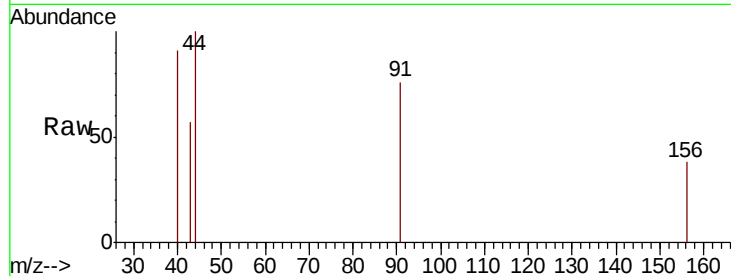
CL-01-071219-E

Tot Ion: 91 Resp: 424

Ion Ratio Lower Upper

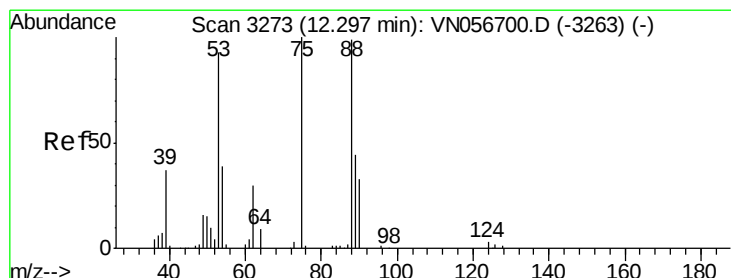
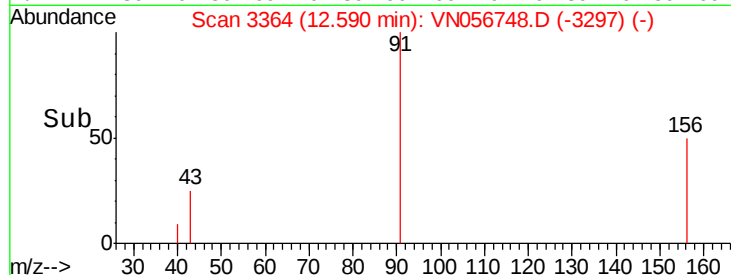
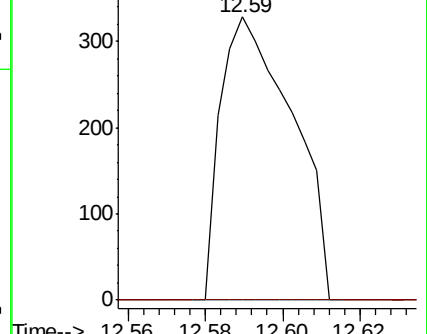
91 100

126 0.0 17.9 53.7#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V



#81

trans-1,4-Dichloro-2-butene

Concen: 71.894 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056748.D

Acq: 16 Jul 2019 6:00

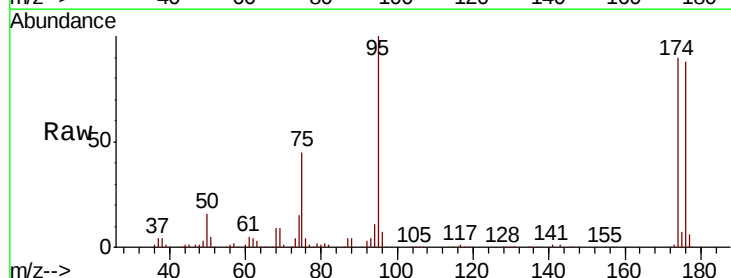
Tgt Ion: 75 Resp: 108089

Ion Ratio Lower Upper

75 100

53 0.0 73.7 110.5#

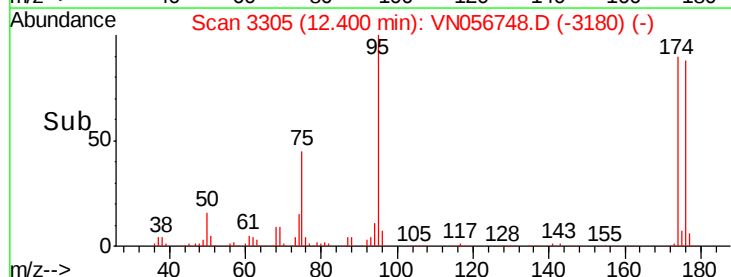
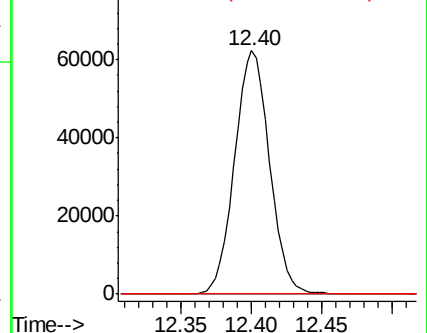
89 0.0 36.2 54.2#

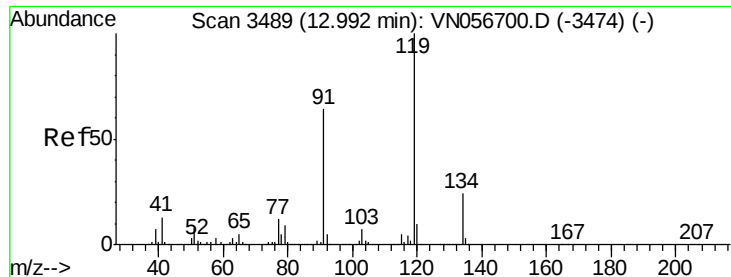


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

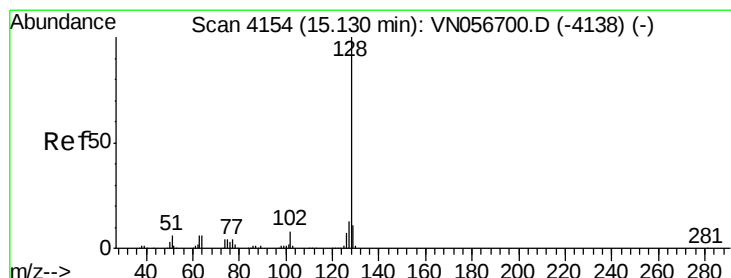
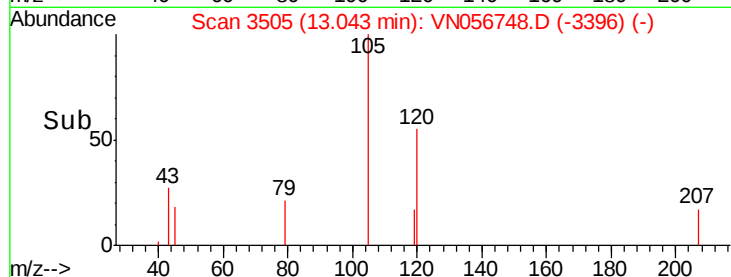
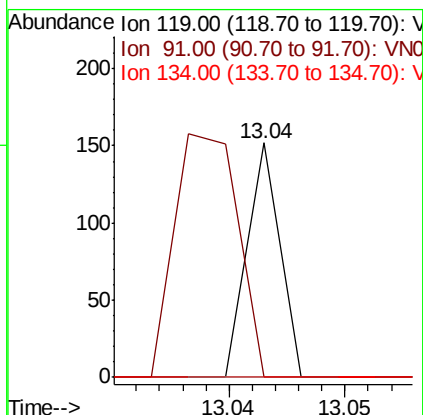
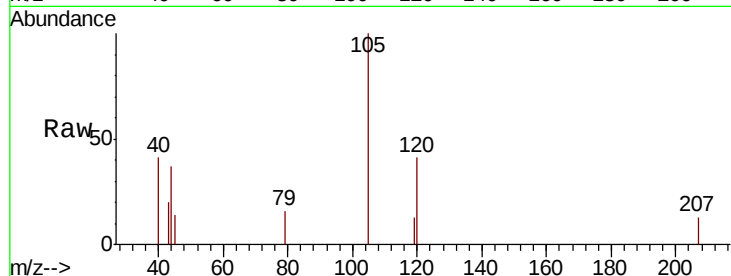




#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 13.04 min Scan# 3505
 Delta R.T. 0.05 min
 Lab File: VN056748.D
 Acq: 16 Jul 2019 6:00

Instrument :
 MSVOA_N
 ClientSampleId :
 CL-01-071219-E

Tot Ion:119 Resp: 29
 Ion Ratio Lower Upper
 119 100
 91 206.9 31.8 95.4#
 134 0.0 13.0 38.9#



#95
 Naphthalene
 Concen: 6.006 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. 0.00 min
 Lab File: VN056748.D
 Acq: 16 Jul 2019 6:00

Tgt Ion:128 Resp: 18509
 Ion Ratio Lower Upper
 128 100
 127 12.2 10.3 15.5
 129 10.1 8.7 13.1

