

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071519\
 Data File : VN056742.D
 Acq On : 16 Jul 2019 3:40
 Operator : JC/SP
 Sample : K3620-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 50 Sample Multiplier: 1

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

Quant Time: Jul 16 04:29:54 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	278246	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	504595	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	550687	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	227851	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	164808	53.55	ug/l	0.00
Spiked Amount			Recovery	=	107.10%	
35) Dibromofluoromethane	7.59	113	152532	48.57	ug/l	0.00
Spiked Amount			Recovery	=	97.14%	
50) Toluene-d8	10.09	98	646163	53.28	ug/l	0.00
Spiked Amount			Recovery	=	106.56%	
62) 4-Bromofluorobenzene	12.40	95	249587	61.02	ug/l	0.00
Spiked Amount			Recovery	=	122.04%	

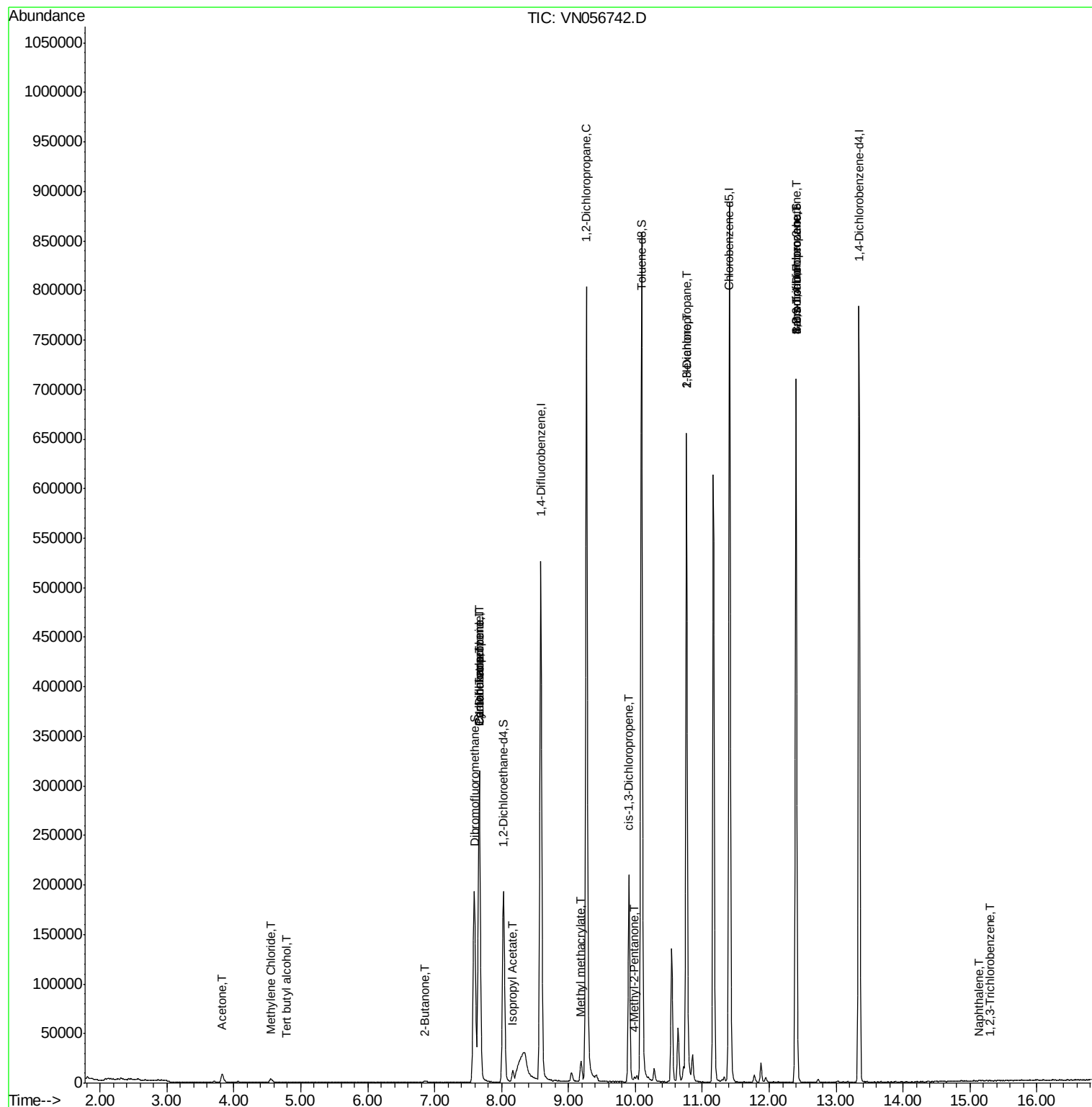
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.79	59	171	0.334	ug/l #	73
16) Acetone	3.82	43	15556	10.968	ug/l	94
18) Methyl Acetate	4.33	43	555	Below Cal	#	52
20) Methylene Chloride	4.55	84	2994	0.966	ug/l #	89
25) 2-Butanone	6.85	43	2085	1.006	ug/l	94
31) Cyclohexane	7.67	56	4436	0.902	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	17910	3.836	ug/l #	48
38) Carbon Tetrachloride	7.67	117	24725	5.646	ug/l #	15
43) Isopropyl Acetate	8.17	43	13813	1.909	ug/l #	92
45) 1,2-Dichloropropane	9.27	63	1131	0.298	ug/l #	45
48) Methyl methacrylate	9.18	41	7101	2.030	ug/l #	13
51) 4-Methyl-2-Pentanone	9.99	43	2788	0.595	ug/l	96
54) cis-1,3-Dichloropropene	9.90	75	40043	7.388	ug/l #	62
57) 1,3-Dichloropropane	10.76	76	6994	1.202	ug/l #	42
59) 2-Hexanone	10.76	43	97184	28.904	ug/l #	52
71) Bromoform	12.40	173	1835	0.582	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	117885	23.655	ug/l #	100
79) 2-Chlorotoluene	12.59	91	257	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	117885	73.055	ug/l #	13
95) Naphthalene	15.13	128	700	4.578	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.31	180	64	3.336	ug/l #	13

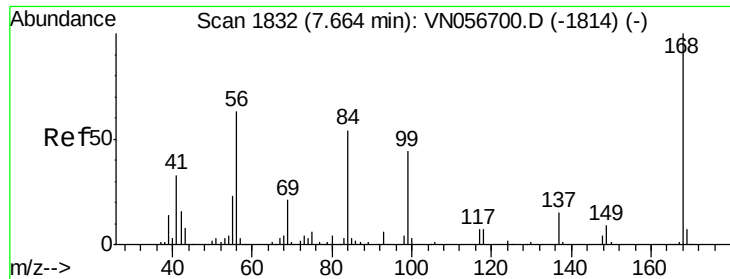
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN056742.D

Acq: 16 Jul 2019 3:40

Instrument :

MSVOA_N

ClientSampleId :

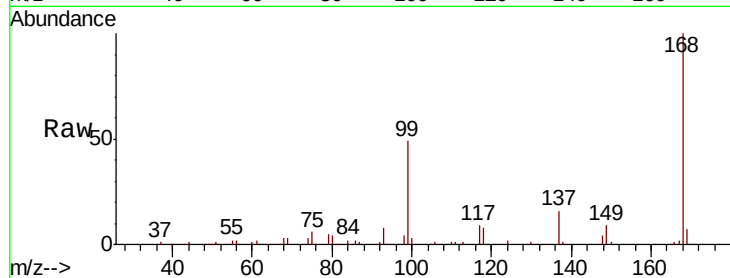
CL-01-071219-C

Tot Ion:168 Resp: 278246

Ion Ratio Lower Upper

168 100

99 49.1 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): VN056742.D (-1739) (-)

Ion 98.90 (98.60 to 99.60): VN056742.D (-1739) (-)

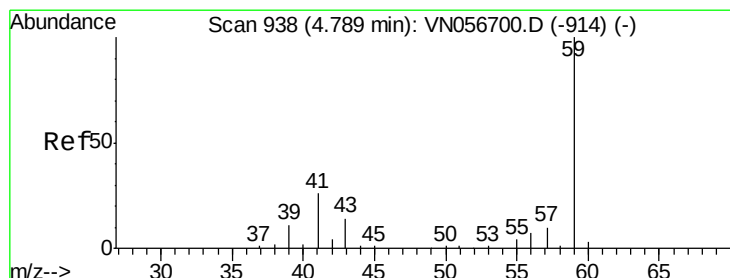
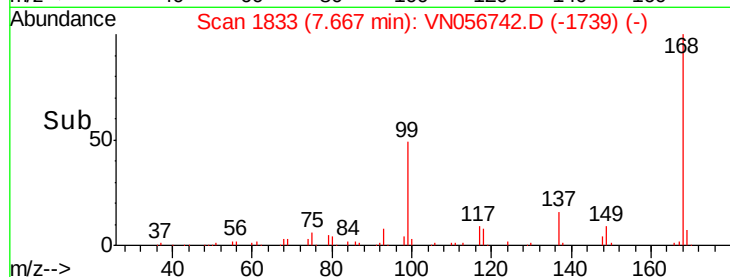
7.67

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#11

Tert butyl alcohol

Concen: 0.334 ug/l

RT: 4.79 min Scan# 939

Delta R.T. 0.00 min

Lab File: VN056742.D

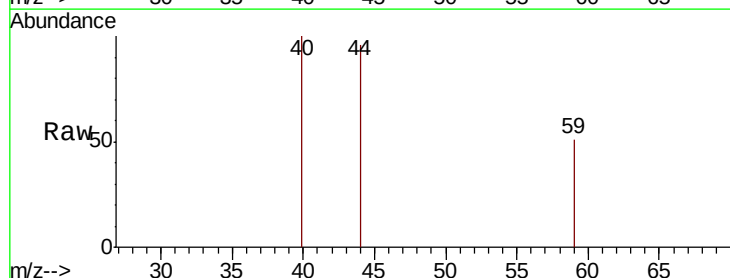
Acq: 16 Jul 2019 3:40

Tgt Ion: 59 Resp: 171

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VN056742.D (-845) (-)

Ion 57.00 (56.70 to 57.70): VN056742.D (-845) (-)

4.79

200

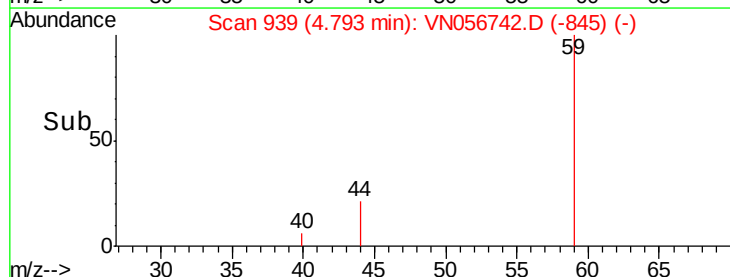
150

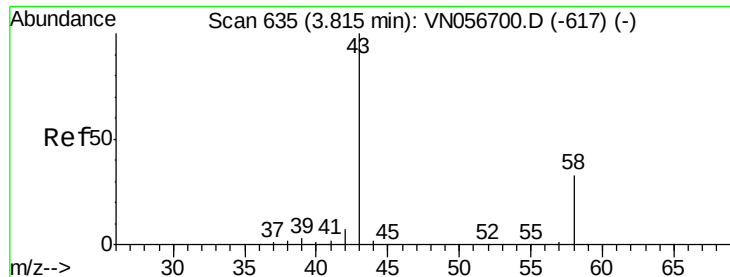
100

50

0

Time--> 4.77 4.78 4.79 4.80 4.81





#16

Acetone

Concen: 10.968 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN056742.D

Acq: 16 Jul 2019 3:40

Instrument :

MSVOA_N

ClientSampleId :

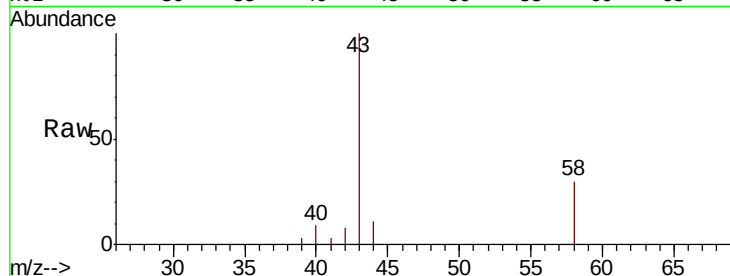
CL-01-071219-C

Tot Ion: 43 Resp: 15556

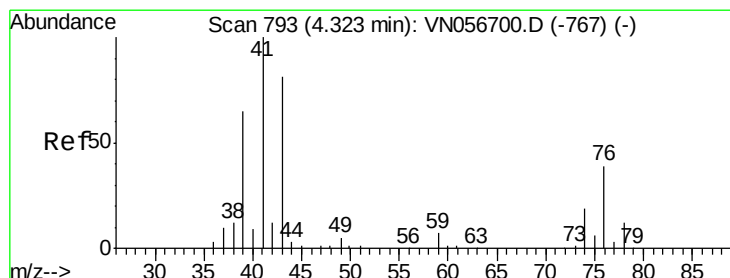
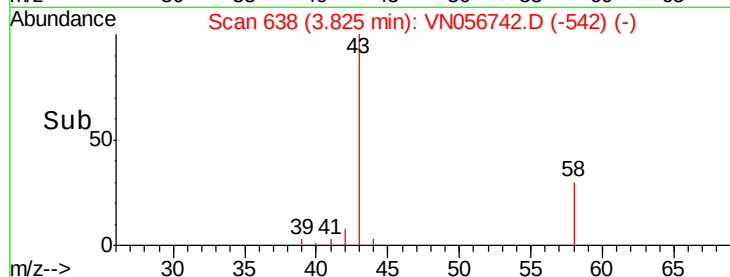
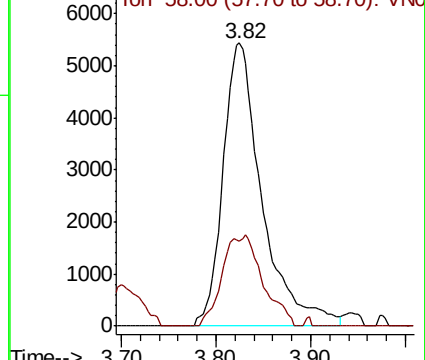
Ion Ratio Lower Upper

43 100

58 29.9 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN056742.D (-542) (-)



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN056742.D

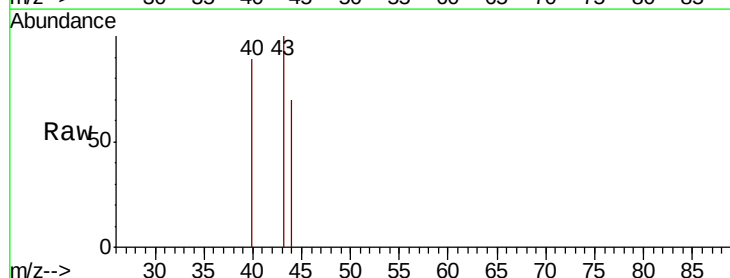
Acq: 16 Jul 2019 3:40

Tgt Ion: 43 Resp: 555

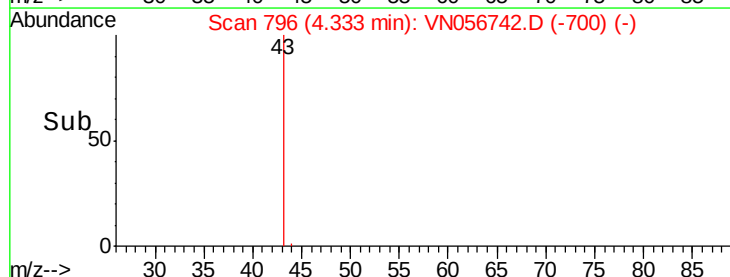
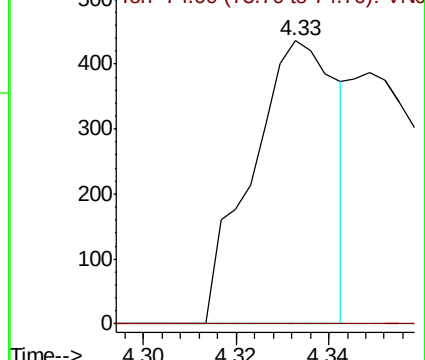
Ion Ratio Lower Upper

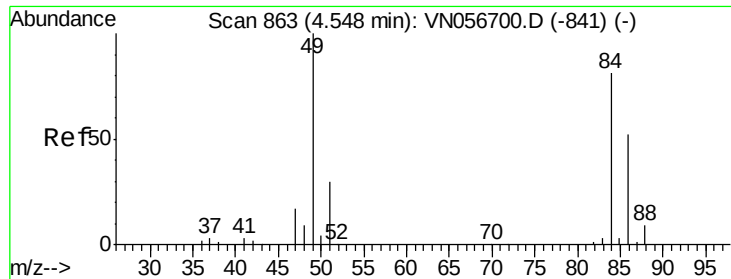
43 100

74 0.0 18.9 28.3#



Abundance Ion 43.00 (42.70 to 43.70): VN056742.D (-700) (-)

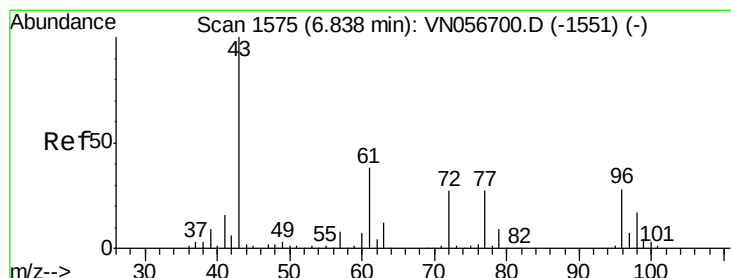
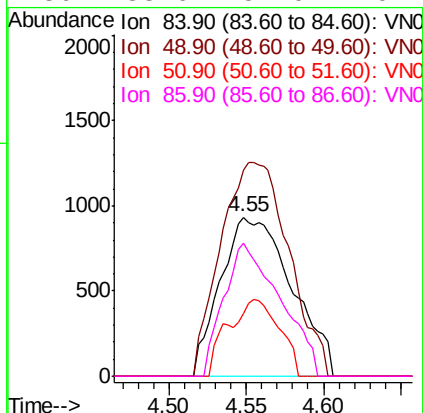
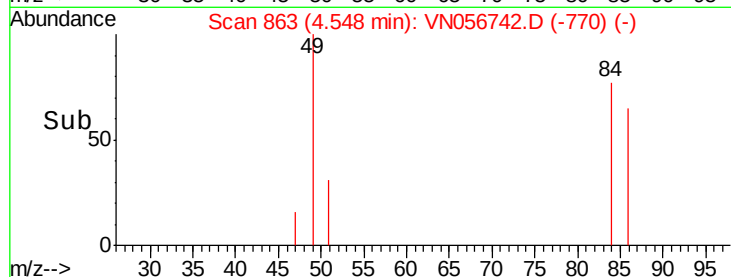
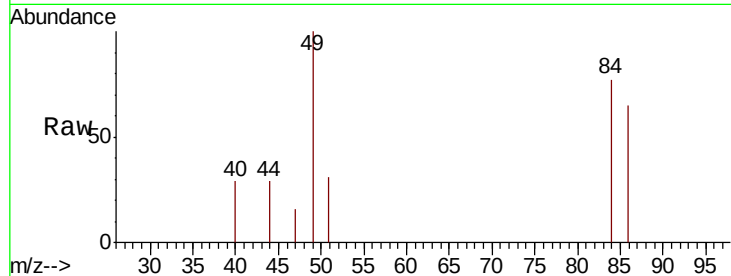




#20
Methvlene Chloride
Concen: 0.966 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.00 min
Lab File: VN056742.D
Acq: 16 Jul 2019 3:40

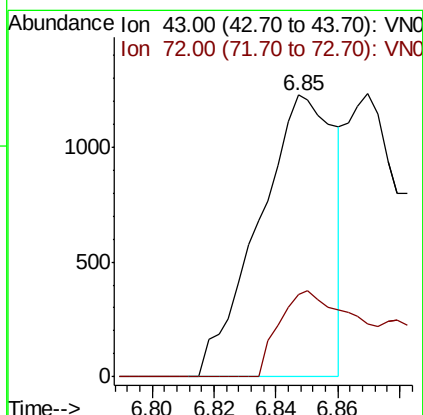
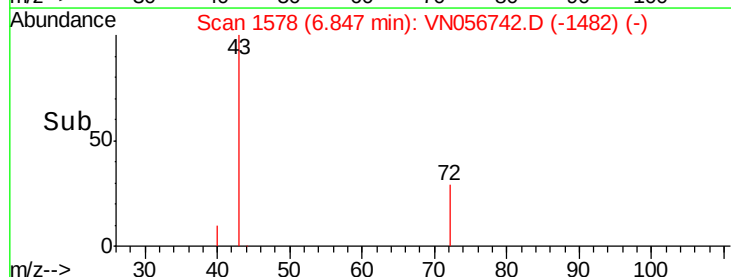
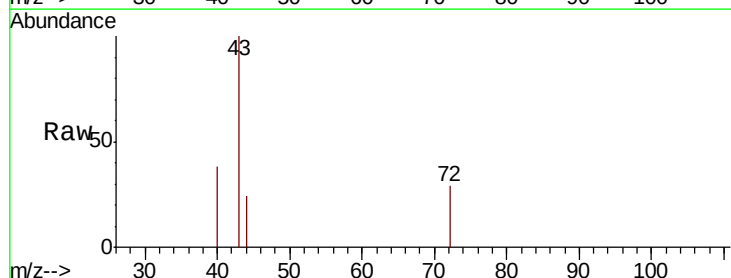
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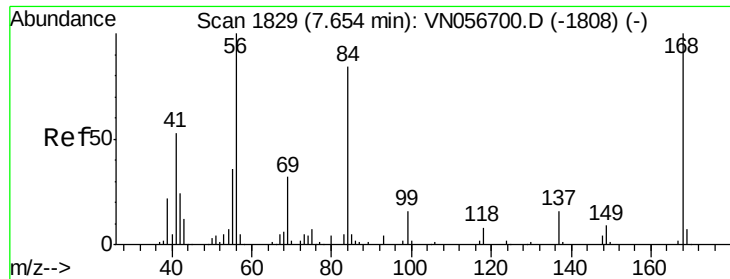
Tot Ion: 84 Resp: 2994
Ion Ratio Lower Upper
84 100
49 129.4 98.2 147.4
51 39.7 29.6 44.4
86 83.6 51.0 76.4#



#25
2-Butanone
Concen: 1.006 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN056742.D
Acq: 16 Jul 2019 3:40

Tgt Ion: 43 Resp: 2085
Ion Ratio Lower Upper
43 100
72 29.4 21.2 31.8

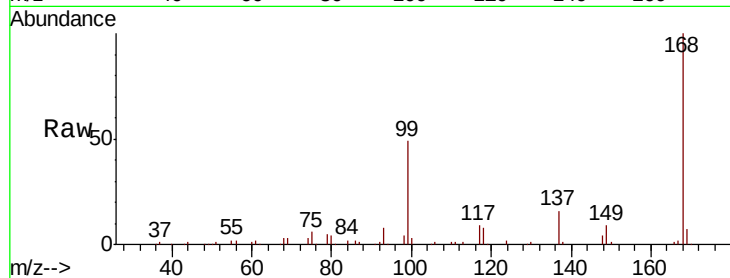




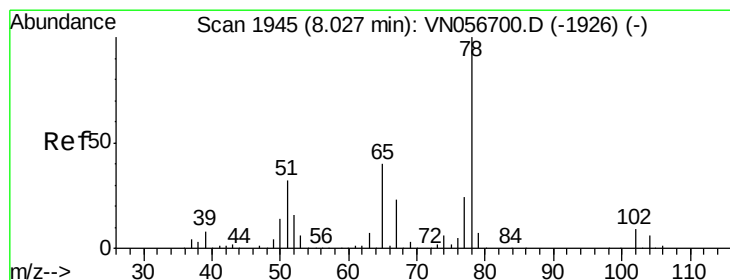
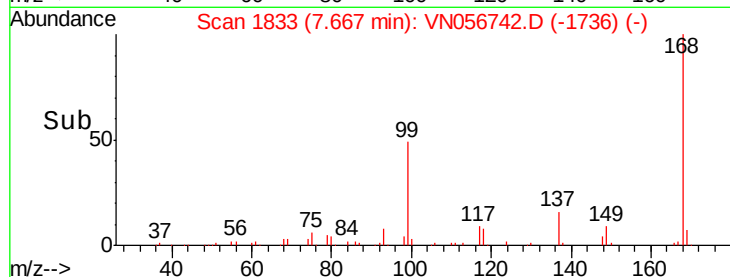
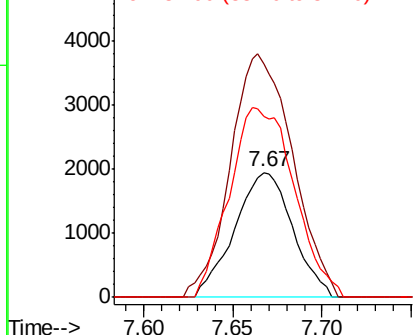
#31
Cyclohexane
Concen: 0.902 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN056742.D
Acq: 16 Jul 2019 3:40

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

Tot Ion: 56 Resp: 4436
Ion Ratio Lower Upper
56 100
69 187.1 25.8 38.8#
84 145.1 67.4 101.0#

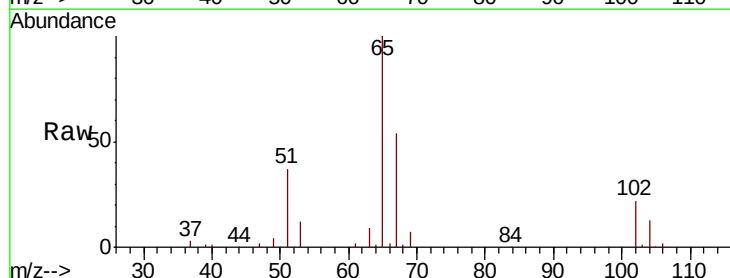


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

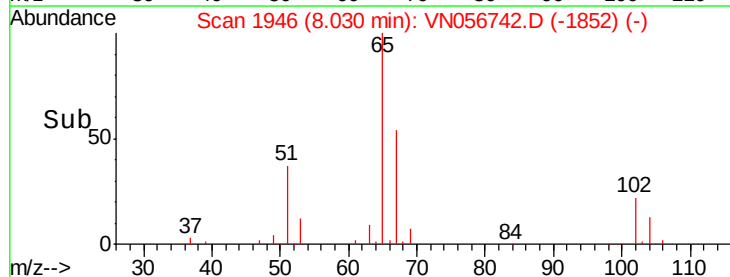
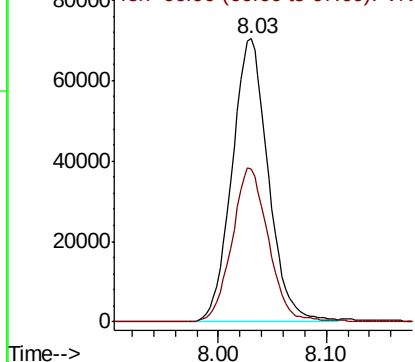


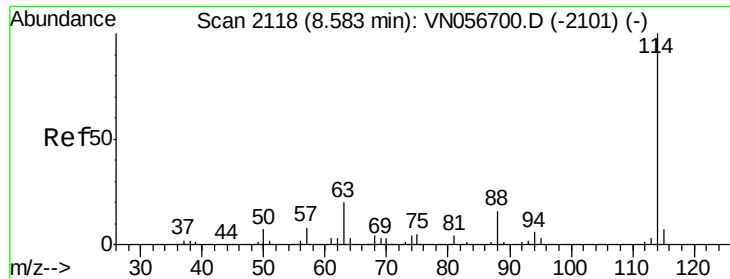
#33
1,2-Dichloroethane-d4
Concen: 53.548 ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN056742.D
Acq: 16 Jul 2019 3:40

Tgt Ion: 65 Resp: 164808
Ion Ratio Lower Upper
65 100
67 54.7 0.0 109.0



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

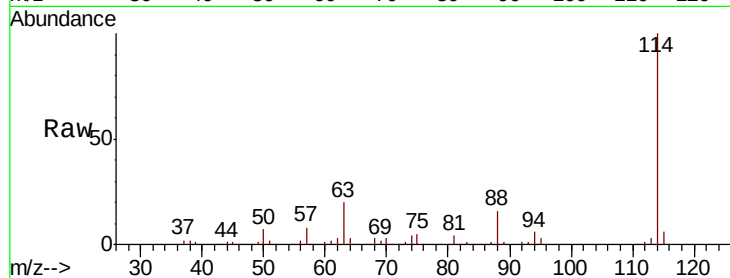




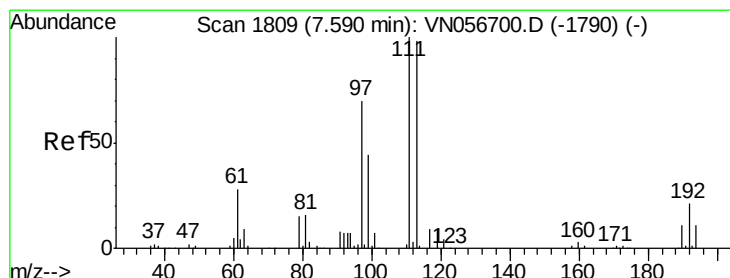
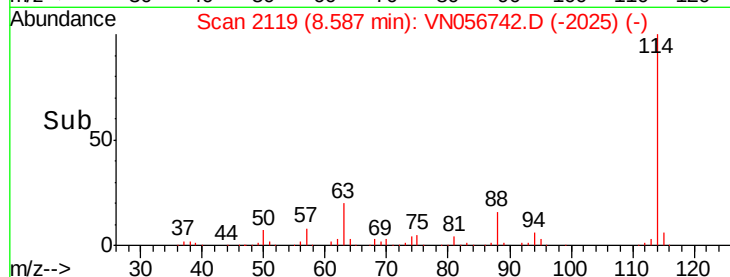
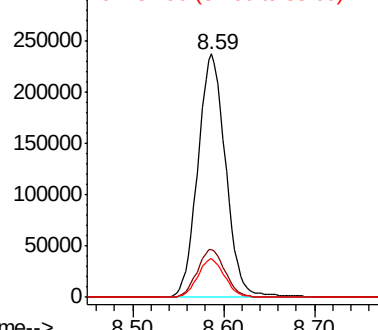
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056742.D
 Acq: 16 Jul 2019 3:40

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 CL-01-071219-C

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	39.4
88	15.8	0.0	31.2

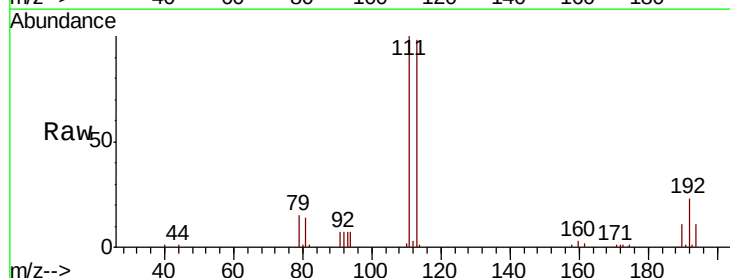


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

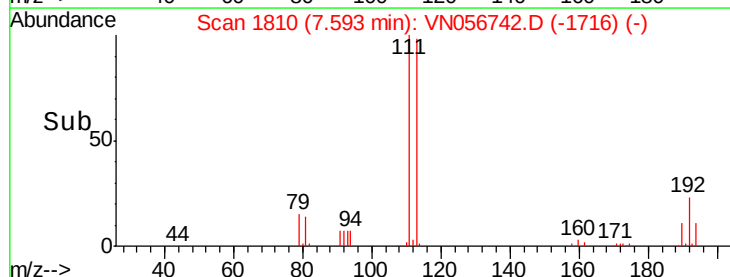
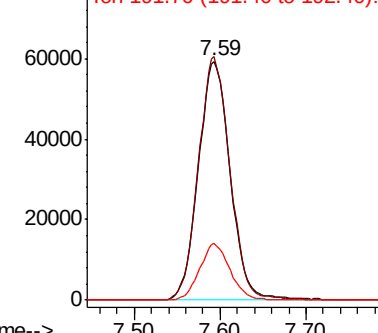


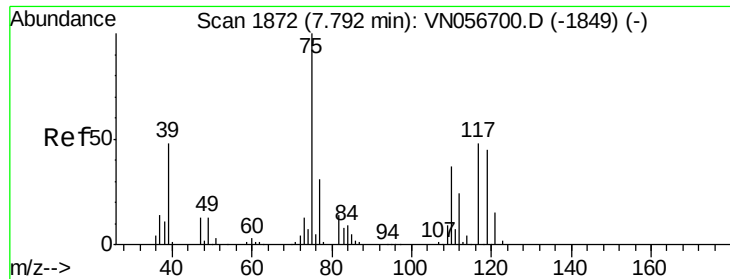
#35
 Dibromofluoromethane
 Concen: 48.574 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN056742.D
 Acq: 16 Jul 2019 3:40

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.1	81.8	122.6
192	22.6	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

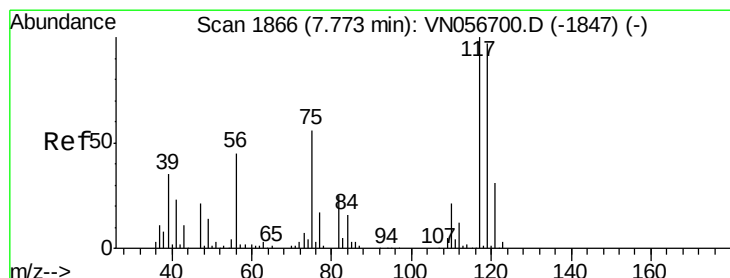
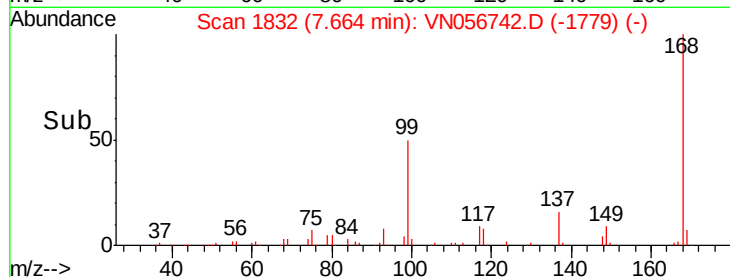
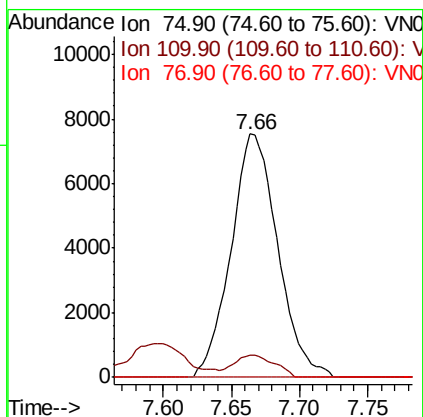
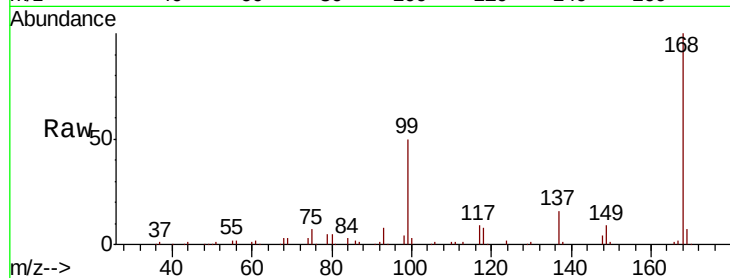




#36
 1,1-Dichloropropene
 Concen: 3.836 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056742.D
 Acq: 16 Jul 2019 3:40

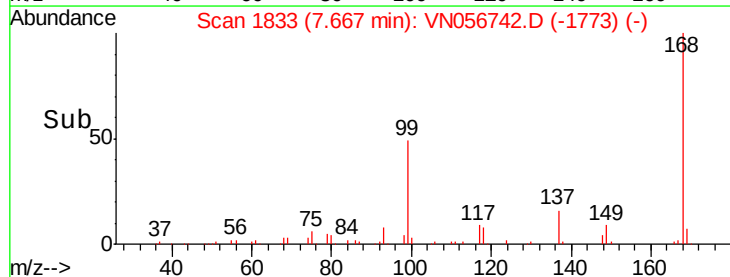
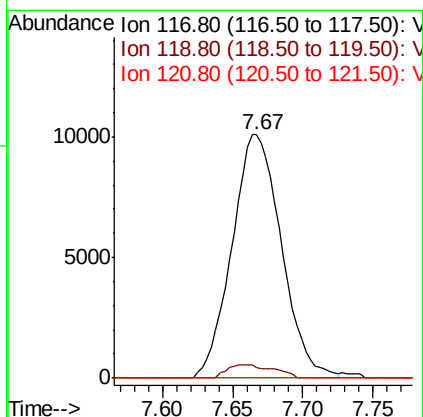
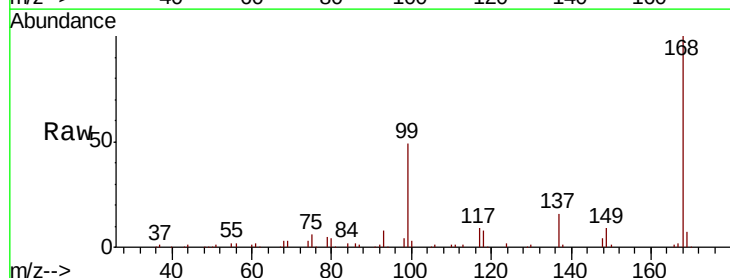
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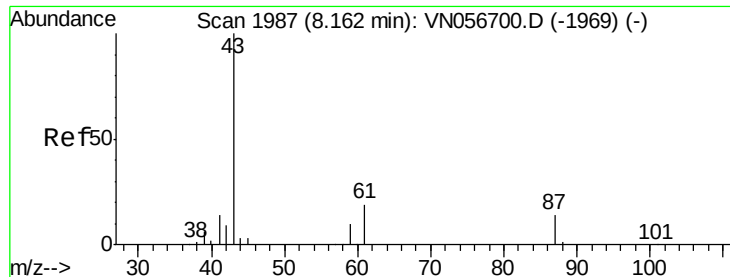
Tot Ion	75	Resp	17910
Ion Ratio	Lower	Upper	
75	100		
110	8.0	18.4	55.4#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.646 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN056742.D
 Acq: 16 Jul 2019 3:40

Tgt Ion	117	Resp	24725
Ion Ratio	Lower	Upper	
117	100		
119	4.5	77.5	116.3#
121	0.0	24.7	37.1#





#43

Isopropyl Acetate

Concen: 1.909 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN056742.D

Acq: 16 Jul 2019 3:40

Instrument :

MSVOA_N

ClientSampleId :

CL-01-071219-C

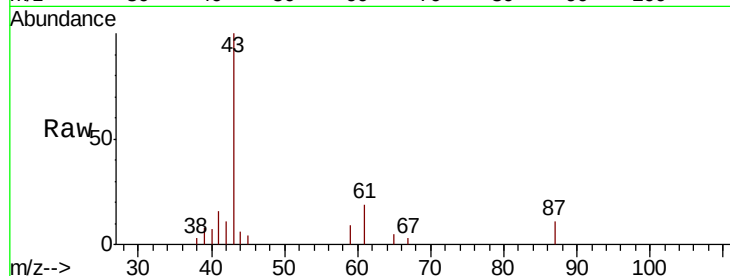
Tot Ion: 43 Resp: 13813

Ion Ratio Lower Upper

43 100

61 21.8 22.3 33.5#

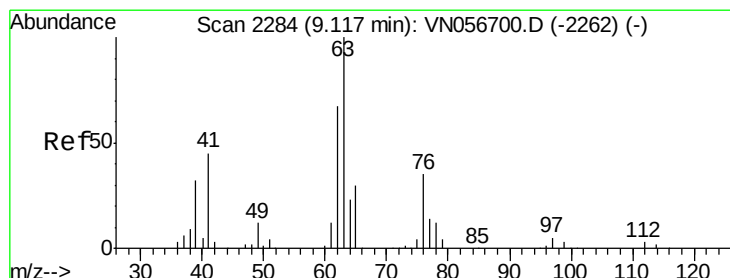
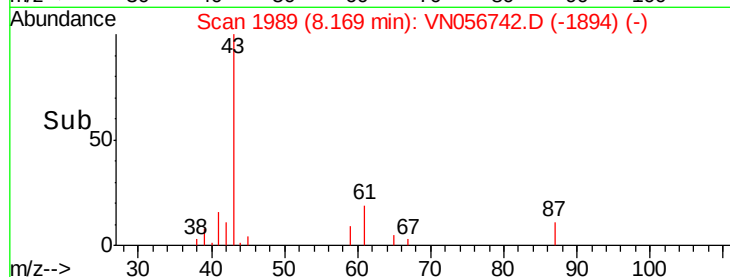
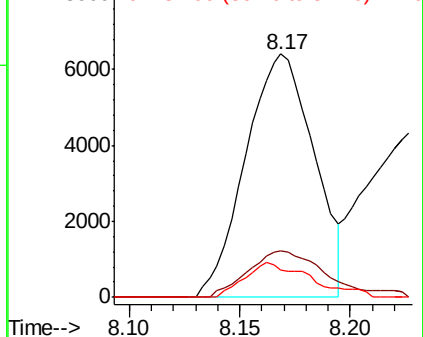
87 13.9 11.1 16.7



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



#45

1,2-Dichloropropane

Concen: 0.298 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN056742.D

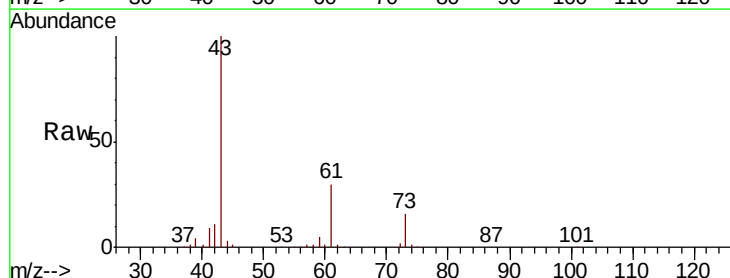
Acq: 16 Jul 2019 3:40

Tgt Ion: 63 Resp: 1131

Ion Ratio Lower Upper

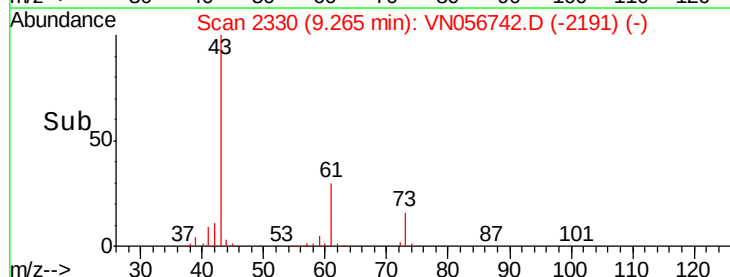
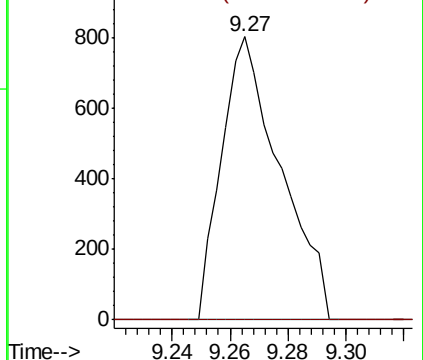
63 100

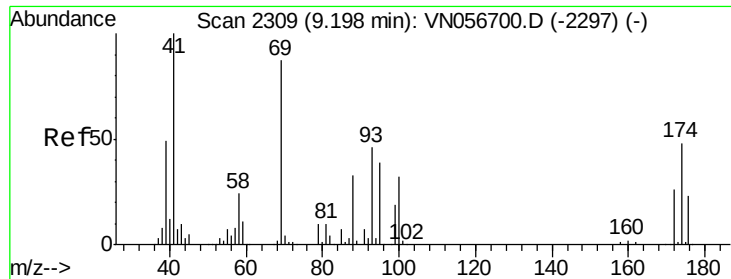
65 0.0 24.0 36.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

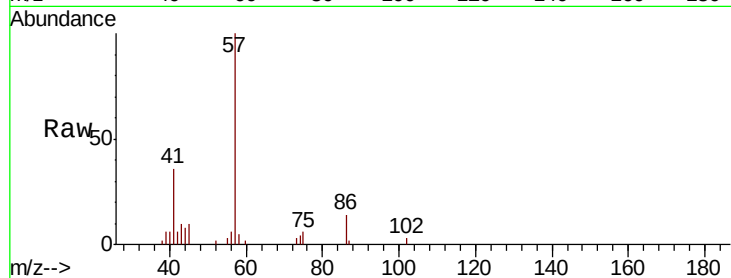




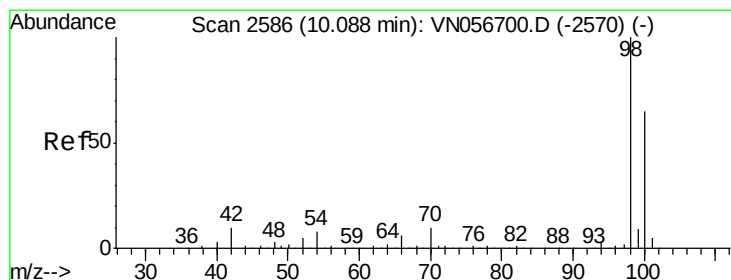
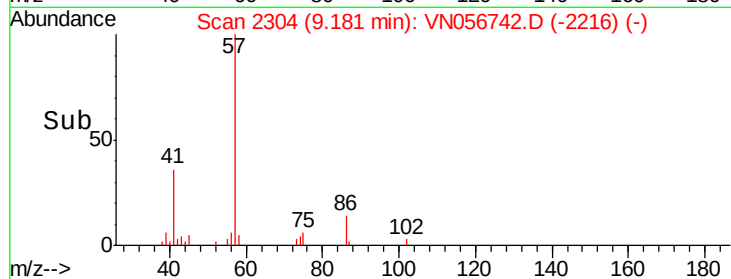
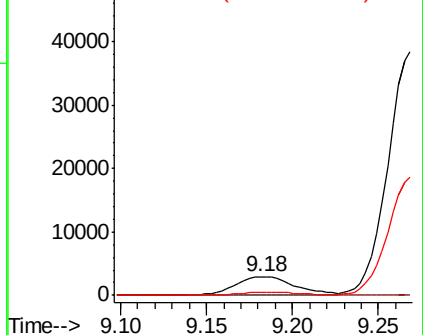
#48
Methvl methacrylate
Concen: 2.030 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN056742.D
Acq: 16 Jul 2019 3:40

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

Tot Ion: 41 Resp: 7101
Ion Ratio Lower Upper
41 100
69 0.0 71.4 107.0#
39 0.0 41.2 61.8#

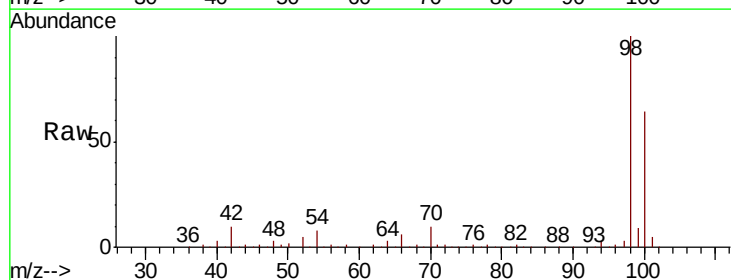


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

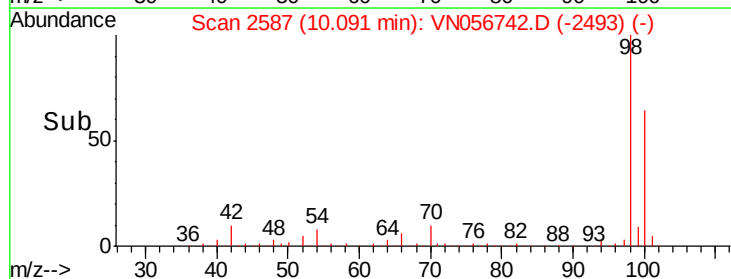
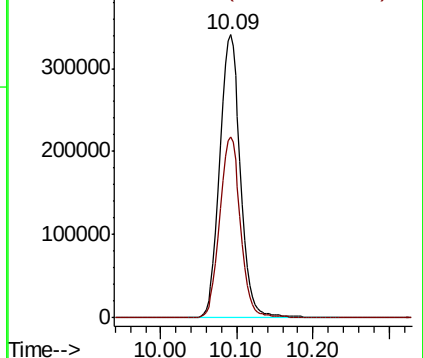


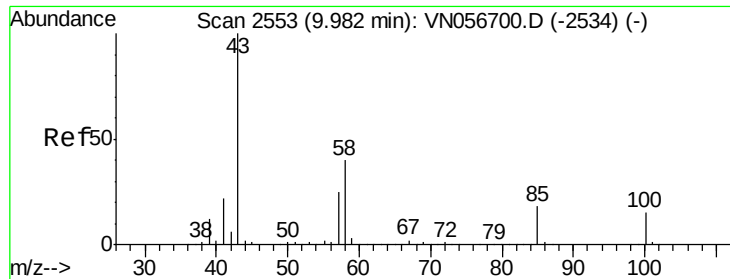
#50
Toluene-d8
Concen: 53.278 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN056742.D
Acq: 16 Jul 2019 3:40

Tgt Ion: 98 Resp: 646163
Ion Ratio Lower Upper
98 100
100 64.3 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.595 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN056742.D

Acq: 16 Jul 2019 3:40

Instrument :

MSVOA_N

ClientSampleId :

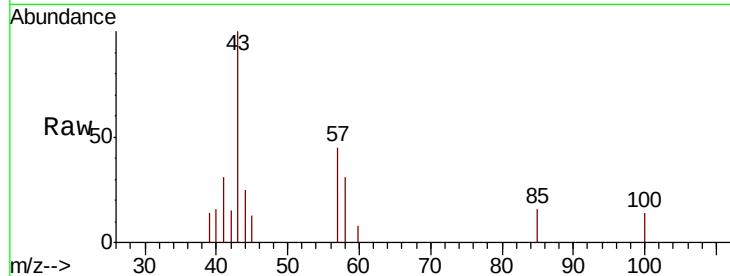
CL-01-071219-C

Tot Ion: 43 Resp: 2788

Ion Ratio Lower Upper

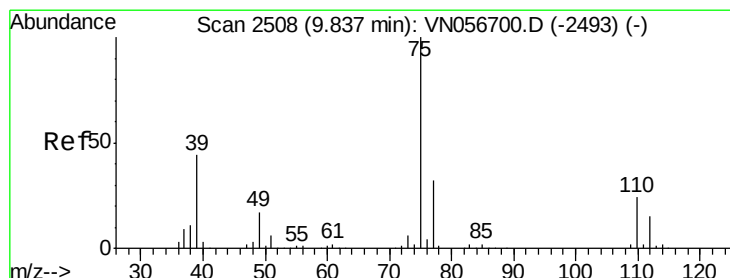
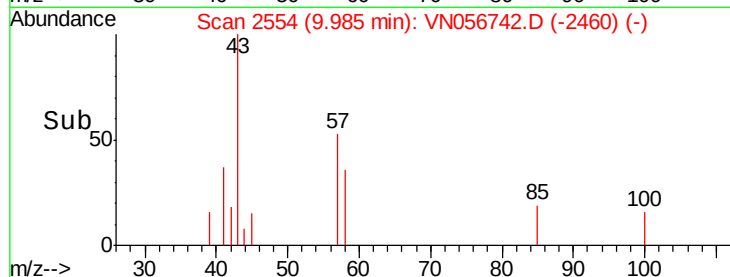
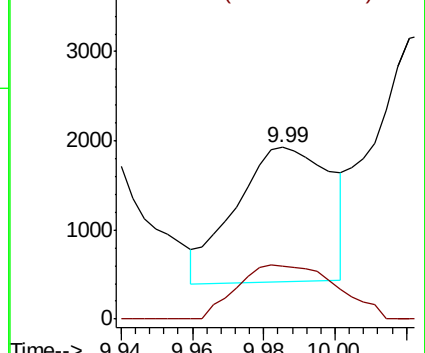
43 100

58 42.2 32.0 48.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 7.388 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN056742.D

Acq: 16 Jul 2019 3:40

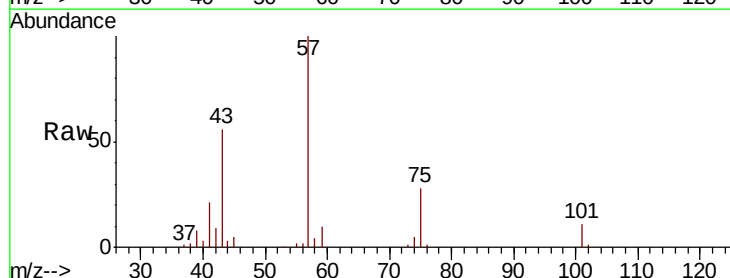
Tgt Ion: 75 Resp: 40043

Ion Ratio Lower Upper

75 100

77 0.0 26.0 39.0#

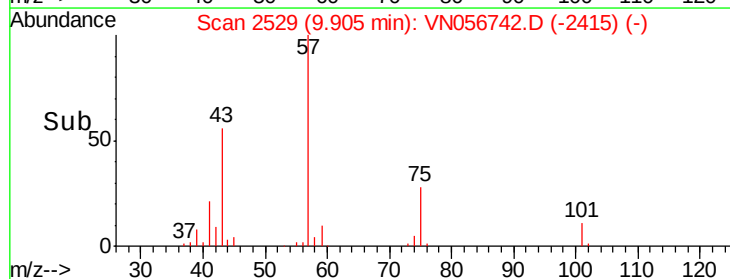
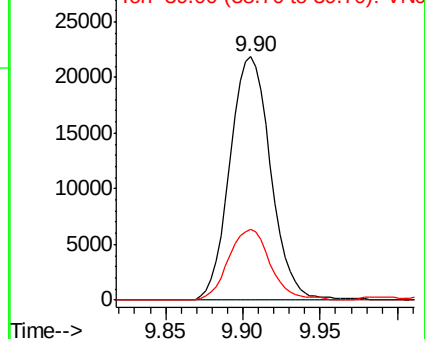
39 29.1 35.1 52.7#

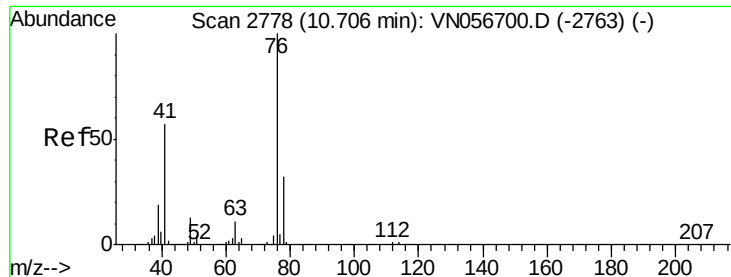


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

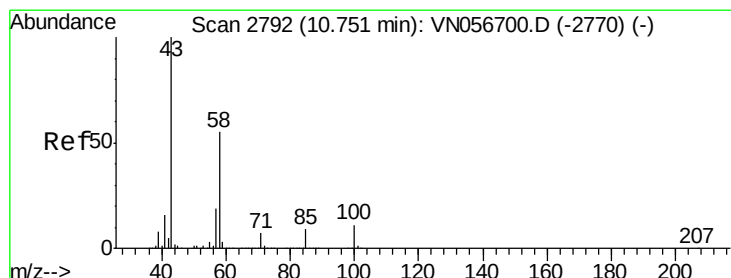
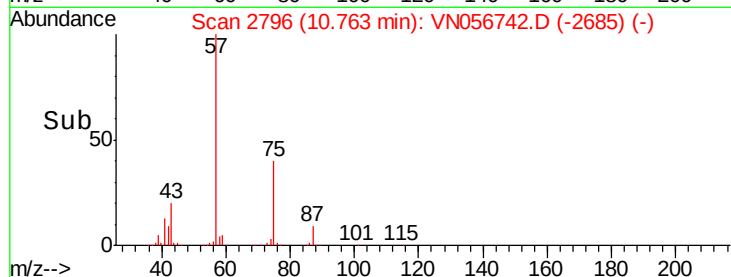
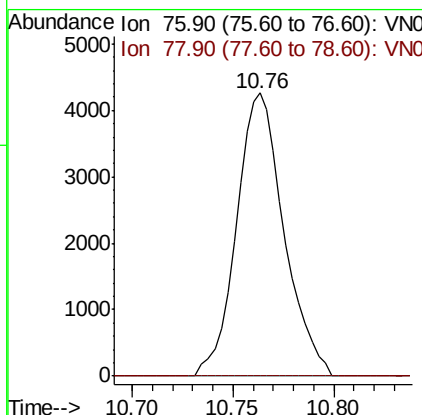
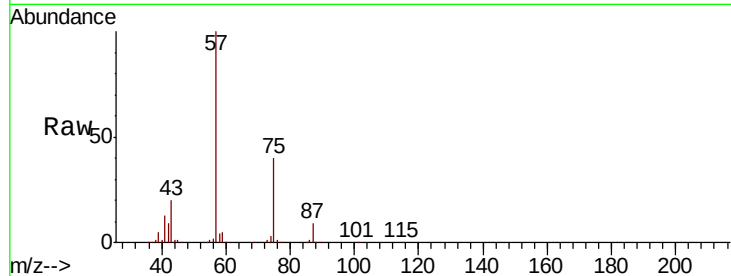




#57
 1,3-Dichloropropane
 Concen: 1.202 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN056742.D
 Acq: 16 Jul 2019 3:40

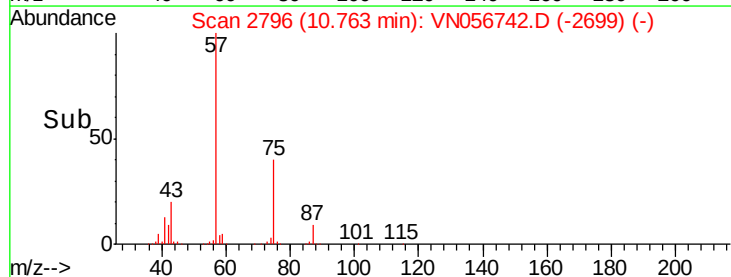
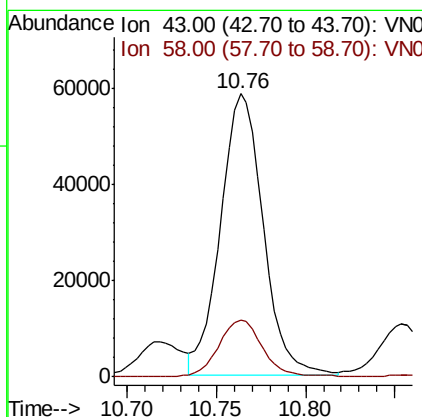
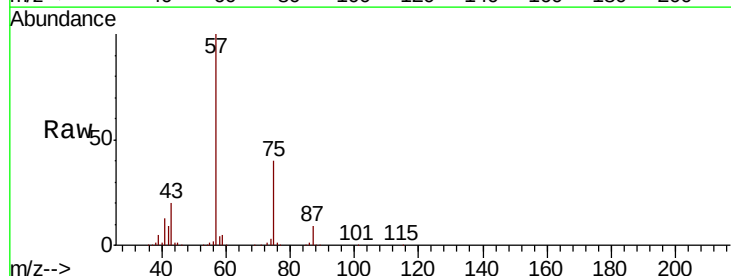
Instrument :
 MSVOA_N
 ClientSampleId :
 CL-01-071219-C

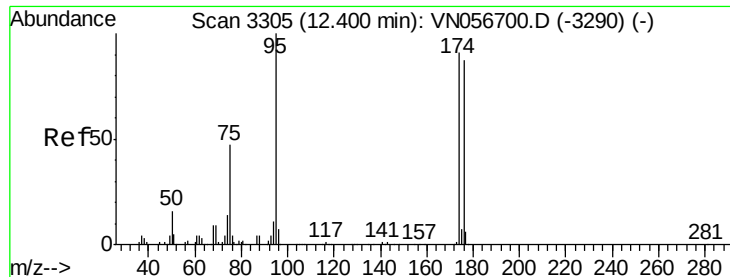
Tot Ion: 76 Resp: 6994
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#



#59
 2-Hexanone
 Concen: 28.904 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN056742.D
 Acq: 16 Jul 2019 3:40

Tgt Ion: 43 Resp: 97184
 Ion Ratio Lower Upper
 43 100
 58 20.6 27.9 83.6#





#62

4-Bromofluorobenzene

Concen: 61.023 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056742.D

Acq: 16 Jul 2019 3:40

Instrument :

MSVOA_N

ClientSampleId :

CL-01-071219-C

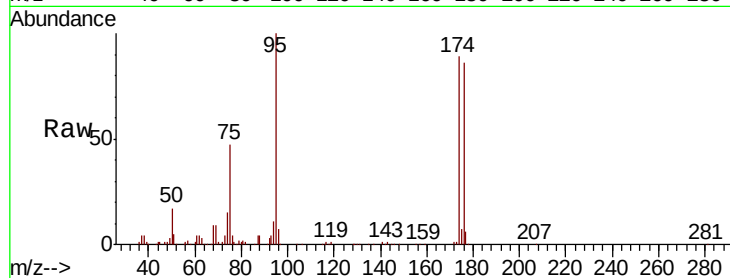
Tot Ion: 95 Resp: 249587

Ion Ratio Lower Upper

95 100

174 90.2 0.0 180.0

176 85.8 0.0 173.2



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

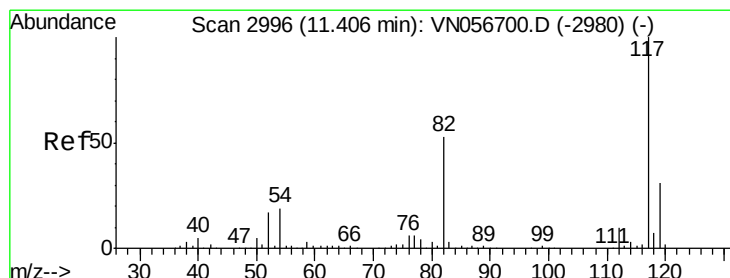
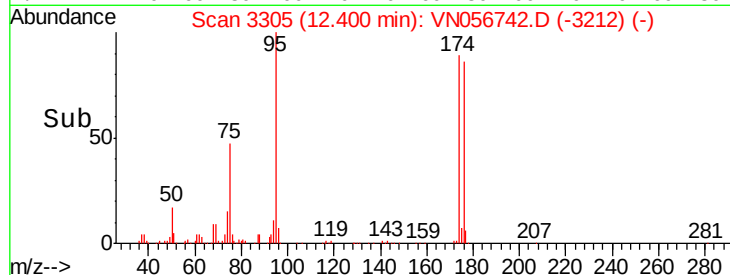
150000

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: VN056742.D

Acq: 16 Jul 2019 3:40

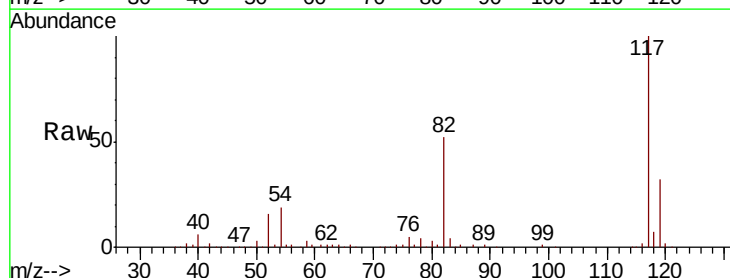
Tgt Ion: 117 Resp: 550687

Ion Ratio Lower Upper

117 100

82 52.2 42.2 63.2

119 32.1 25.2 37.8



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

400000

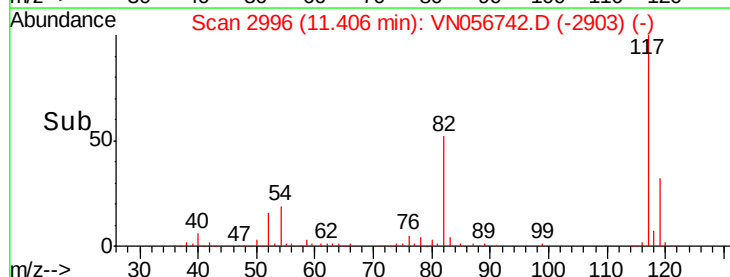
300000

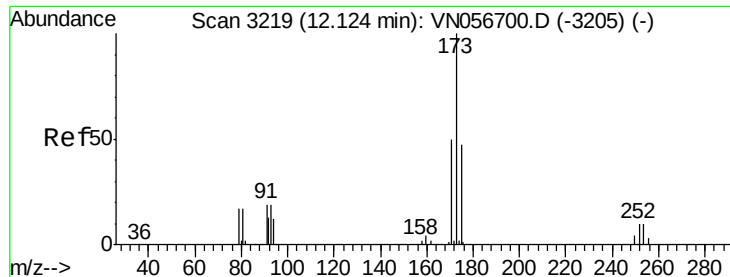
200000

100000

0

Time--> 11.30 11.40 11.50





#71

Bromoform

Concen: 0.582 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.28 min

Lab File: VN056742.D

Acq: 16 Jul 2019 3:40

Instrument :

MSVOA_N

ClientSampleId :

CL-01-071219-C

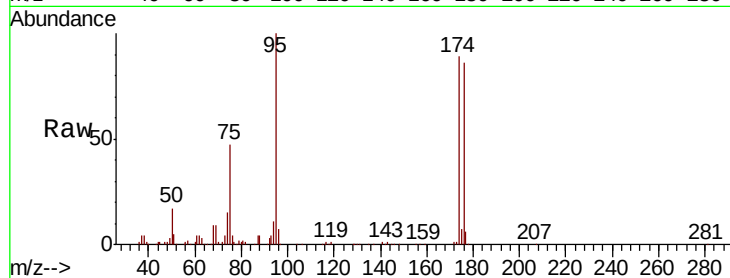
Tot Ion:173 Resp: 1835

Ion Ratio Lower Upper

173 100

175 716.8 23.8 71.4#

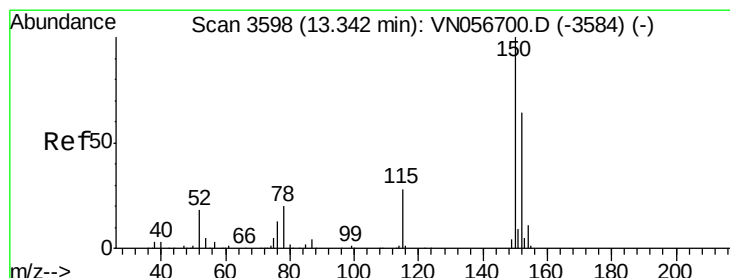
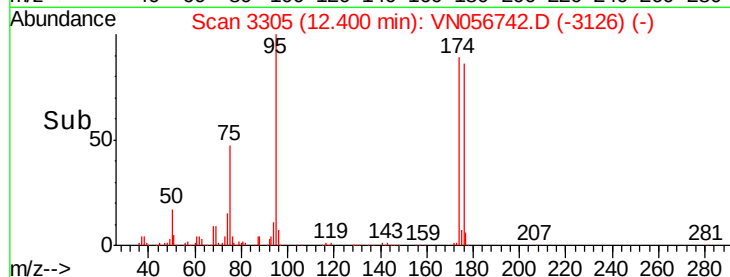
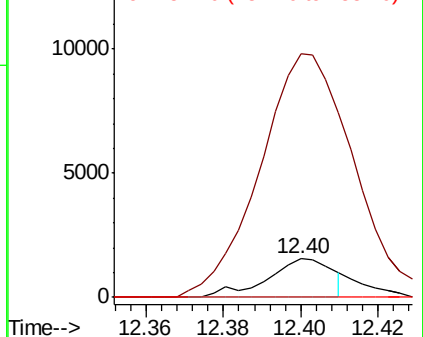
254 0.0 0.0 0.0



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: VN056742.D

Acq: 16 Jul 2019 3:40

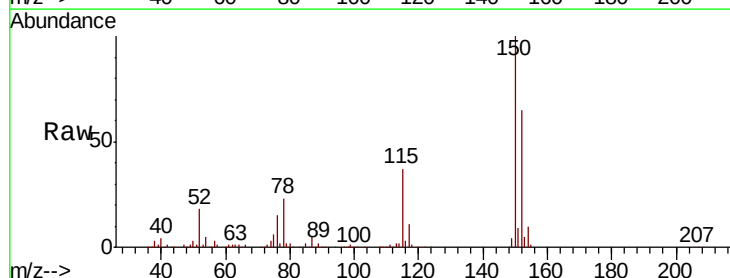
Tgt Ion:152 Resp: 227851

Ion Ratio Lower Upper

152 100

115 56.0 28.2 84.7

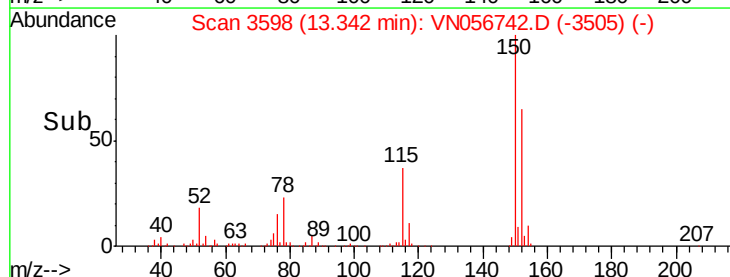
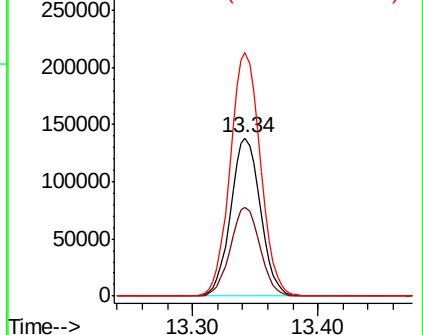
150 156.3 0.0 345.8

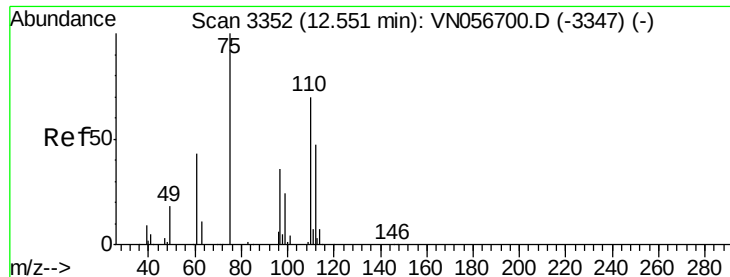


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.655 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056742.D

Acq: 16 Jul 2019 3:40

Instrument :

MSVOA_N

ClientSampleId :

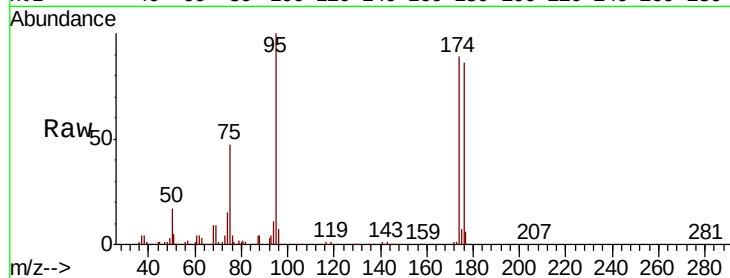
CL-01-071219-C

Tot Ion: 75 Resp: 117885

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

80000

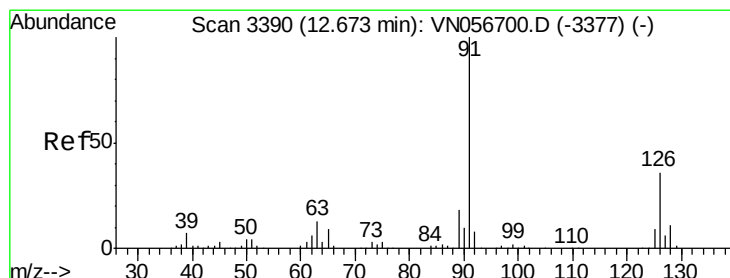
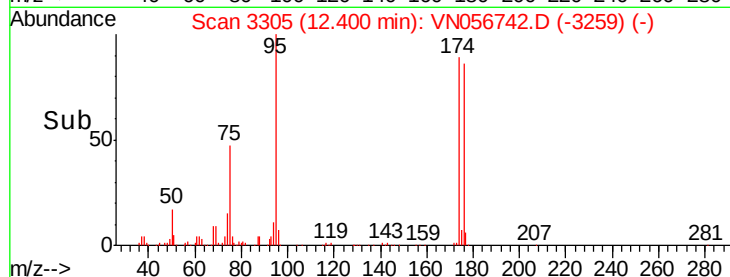
60000

40000

20000

0

Time--> 12.30 12.40 12.50



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.59 min Scan# 3364

Delta R.T. -0.08 min

Lab File: VN056742.D

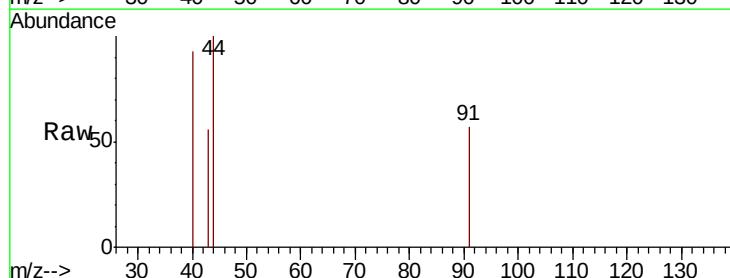
Acq: 16 Jul 2019 3:40

Tgt Ion: 91 Resp: 257

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

200

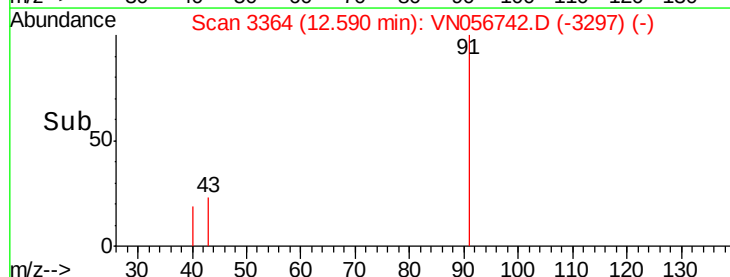
150

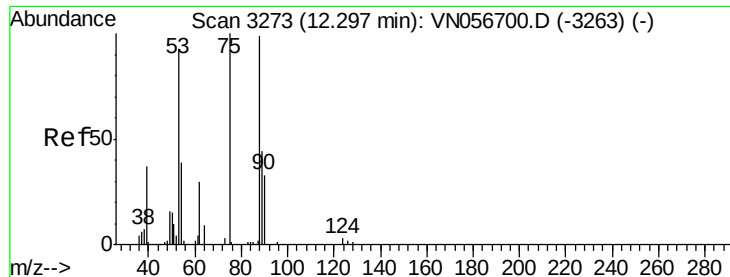
100

50

0

Time--> 12.58 12.60





#81

trans-1,4-Dichloro-2-butene

Concen: 73.055 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056742.D

Acq: 16 Jul 2019 3:40

Instrument :

MSVOA_N

ClientSampleId :

CL-01-071219-C

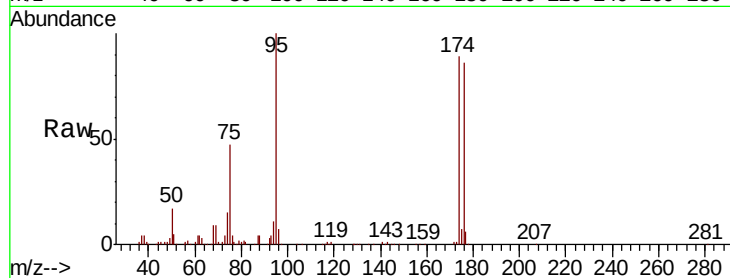
Tot Ion: 75 Resp: 117885

Ion Ratio Lower Upper

75 100

53 0.0 73.7 110.5#

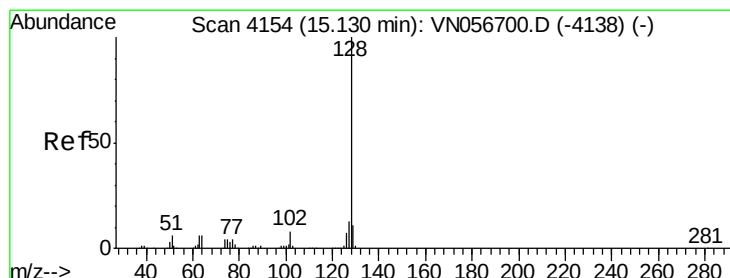
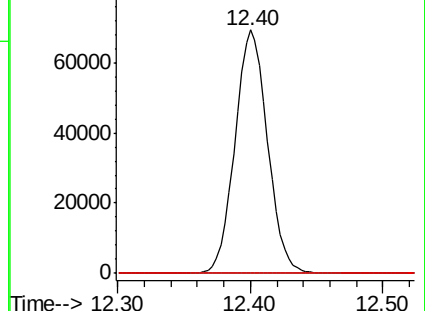
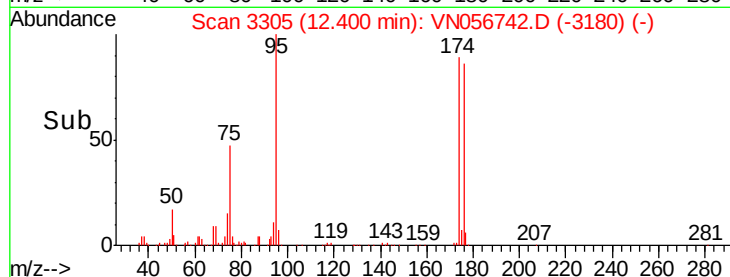
89 0.0 36.2 54.2#



Abundance Ion 74.90 (74.60 to 75.60): VN056742.D (-3180) (-)

Ion 53.00 (52.70 to 53.70): VN056742.D (-3180) (-)

Ion 88.90 (88.60 to 89.60): VN056742.D (-3180) (-)



#95

Naphthalene

Concen: 4.578 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056742.D

Acq: 16 Jul 2019 3:40

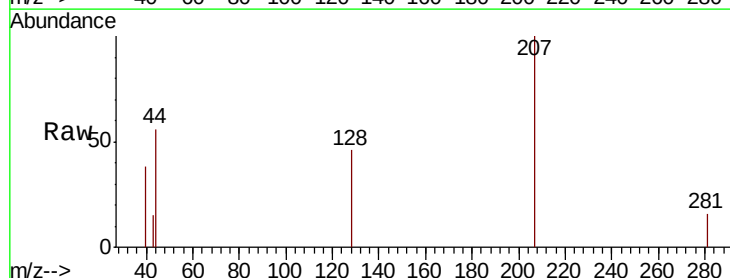
Tgt Ion: 128 Resp: 700

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

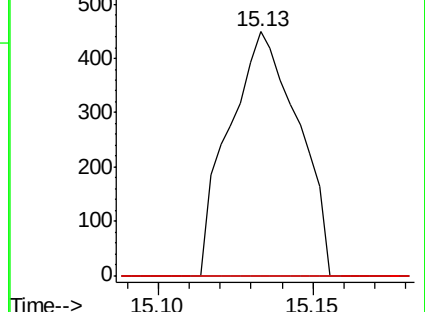
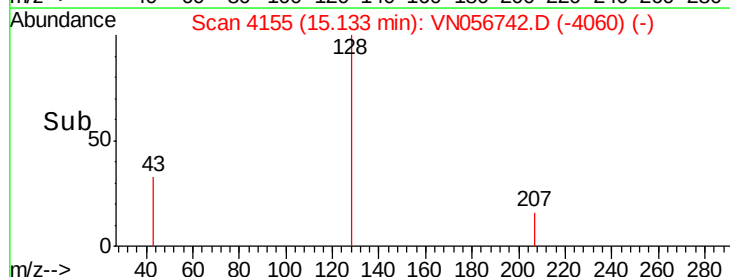
129 0.0 8.7 13.1#

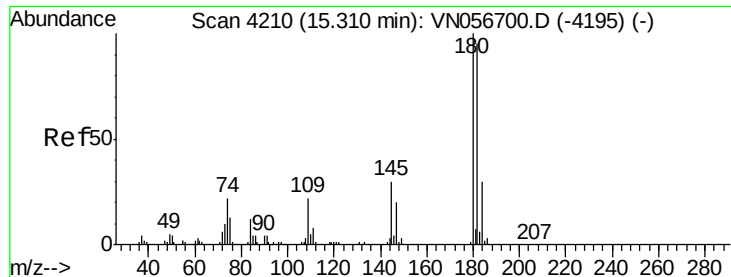


Abundance Ion 128.00 (127.70 to 128.70): VN056742.D (-4060) (-)

Ion 127.00 (126.70 to 127.70): VN056742.D (-4060) (-)

Ion 129.00 (128.70 to 129.70): VN056742.D (-4060) (-)

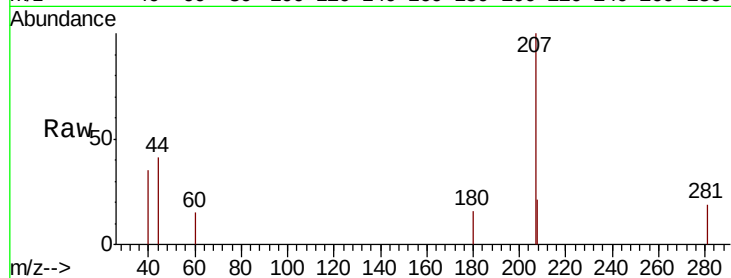




#96
 1,2,3-Trichlorobenzene
 Concen: 3.336 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN056742.D
 Acq: 16 Jul 2019 3:40

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

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.1	141.3#
145	0.0	15.0	45.1#



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

