

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051719\
 Data File : VN055642.D
 Acq On : 18 May 2019 4:56
 Operator : JC/SP
 Sample : K2903-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 18 06:08:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 23:54:12 2019
 Response via : Initial Calibration

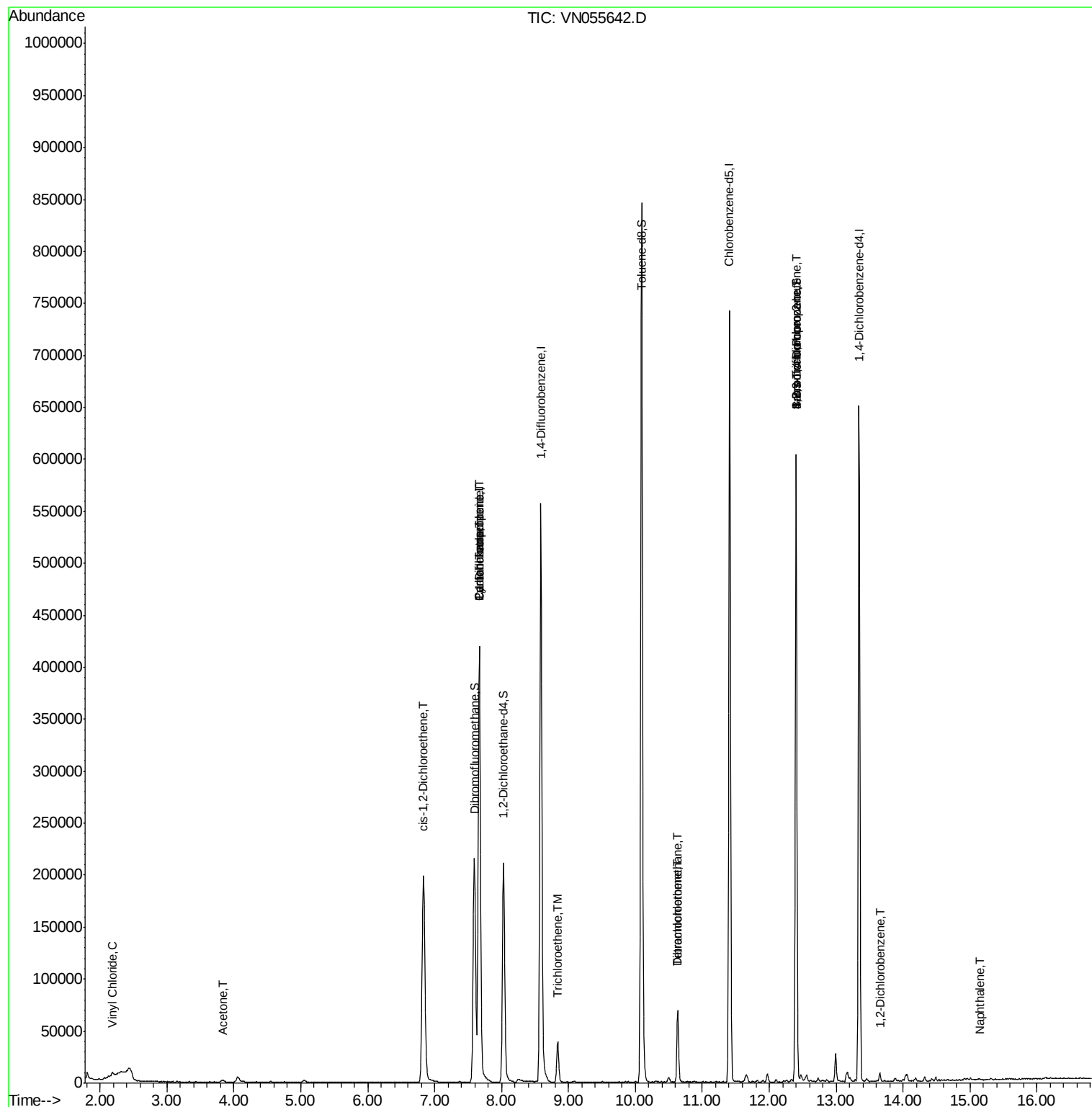
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	400187	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	564996	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	477613	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	192194	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	186137	42.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.86%	
35) Dibromofluoromethane	7.59	113	173513	48.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.68%	
50) Toluene-d8	10.09	98	650291	47.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.84%	
62) 4-Bromofluorobenzene	12.40	95	209969	44.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.62%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.19	62	2228	0.501	ug/l	98
16) Acetone	3.83	43	4030	2.251	ug/l	93
27) cis-1,2-Dichloroethene	6.83	96	148280	32.707	ug/l	88
31) Cyclohexane	7.67	56	6229	0.957	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	23443	4.654	ug/l #	49
38) Carbon Tetrachloride	7.67	117	33057	6.141	ug/l #	16
44) Trichloroethene	8.84	130	16803	4.019	ug/l	96
60) Dibromochloromethane	10.63	129	15946	3.678	ug/l #	11
64) Tetrachloroethene	10.63	164	18934	5.026	ug/l	96
71) Bromoform	12.40	173	1441	0.438	ug/l #	1
73) Isopropylbenzene	12.25	105	425	Below Cal	#	48
75) 1,1,2,2-Tetrachloroethane	12.56	83	595	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	97588	24.884	ug/l #	100
79) 2-Chlorotoluene	12.67	91	319	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	349	Below Cal	#	28
81) trans-1,4-Dichloro-2-buten	12.40	75	97588	63.966	ug/l #	17
83) tert-Butylbenzene	12.99	119	14708	Below Cal		97
84) 1,2,4-Trimethylbenzene	13.04	105	470	Below Cal	#	30
85) sec-Butylbenzene	13.17	105	5123	Below Cal	#	50
86) p-Isopropyltoluene	13.29	119	830	Below Cal	#	51
90) Hexachloroethane	13.99	117	184	Below Cal	#	3
91) 1,2-Dichlorobenzene	13.65	146	4467	0.687	ug/l	98
94) Hexachlorobutadiene	15.01	225	98	Below Cal	#	18
95) Naphthalene	15.14	128	1014	1.862	ug/l #	69

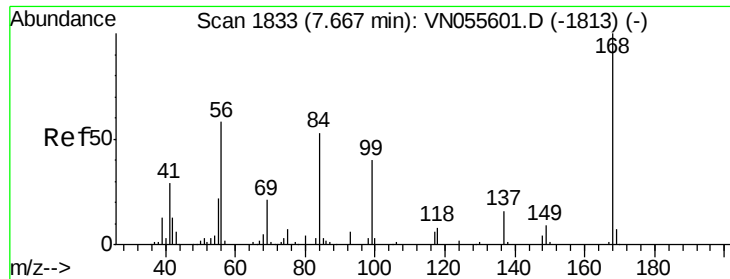
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri May 17 23:54:12 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN055642.D

Acq: 18 May 2019 4:56

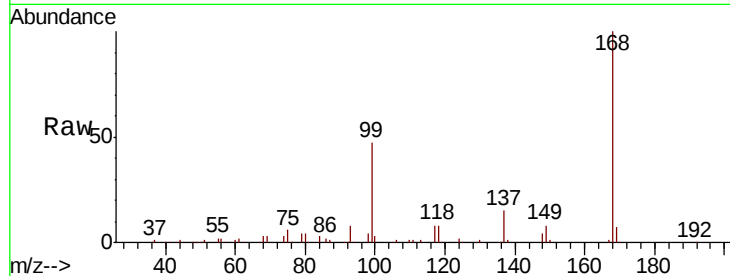
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 400187

Ion Ratio Lower Upper

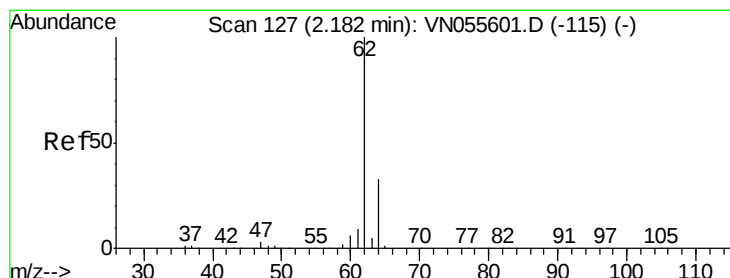
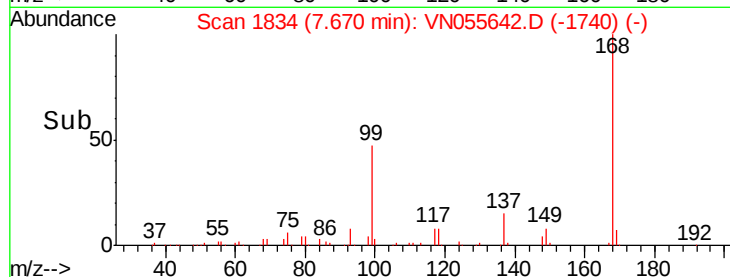
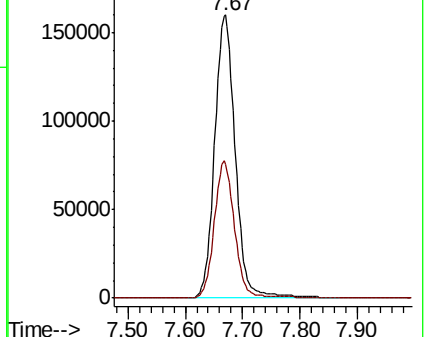
168 100

99 47.4 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#4

Vinyl Chloride

Concen: 0.501 ug/l

RT: 2.19 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN055642.D

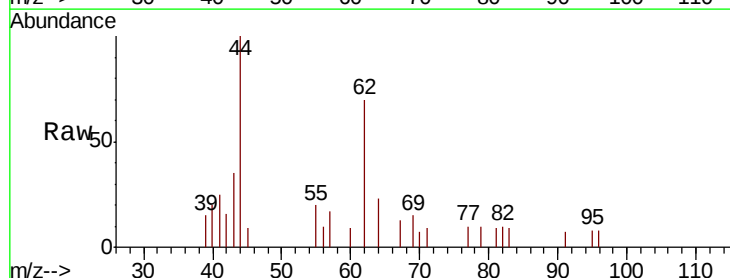
Acq: 18 May 2019 4:56

Tgt Ion: 62 Resp: 2228

Ion Ratio Lower Upper

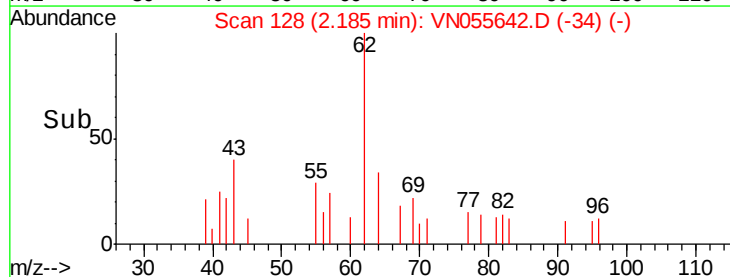
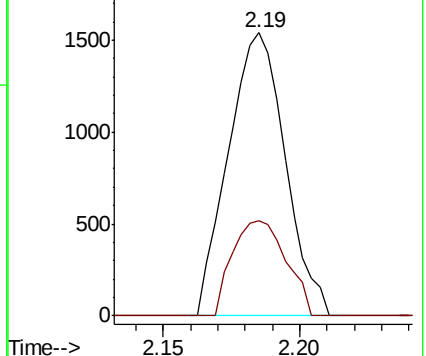
62 100

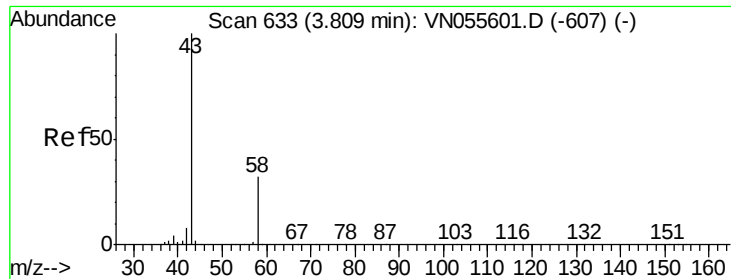
64 33.7 26.2 39.4



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#16

Acetone

Concen: 2.251 ug/l

RT: 3.83 min Scan# 641

Delta R.T. 0.03 min

Lab File: VN055642.D

Acq: 18 May 2019 4:56

Instrument :

MSVOA_N

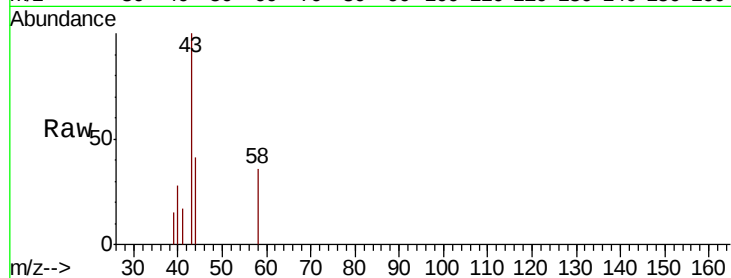
ClientSampled :

Tot Ion: 43 Resp: 4030

Ion Ratio Lower Upper

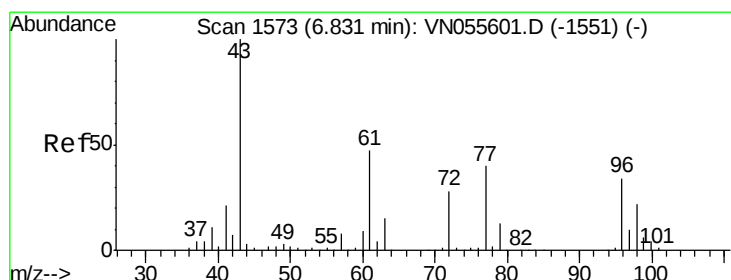
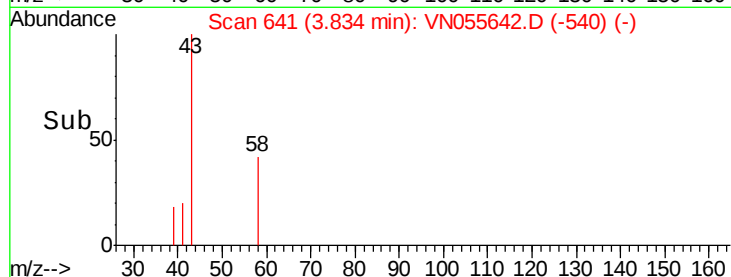
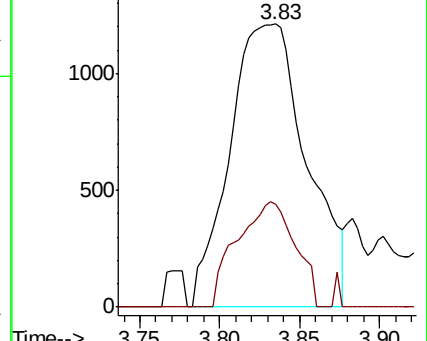
43 100

58 36.3 26.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#27

cis-1,2-Dichloroethene

Concen: 32.707 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN055642.D

Acq: 18 May 2019 4:56

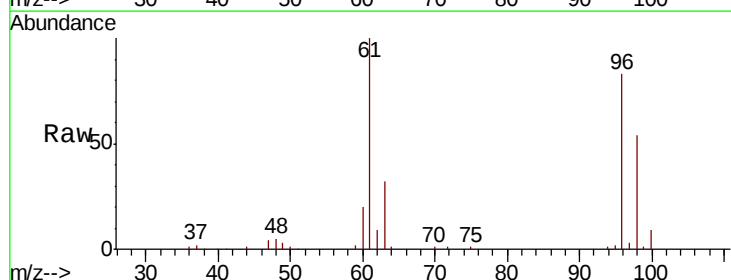
Tgt Ion: 96 Resp: 148280

Ion Ratio Lower Upper

96 100

61 119.8 0.0 279.0

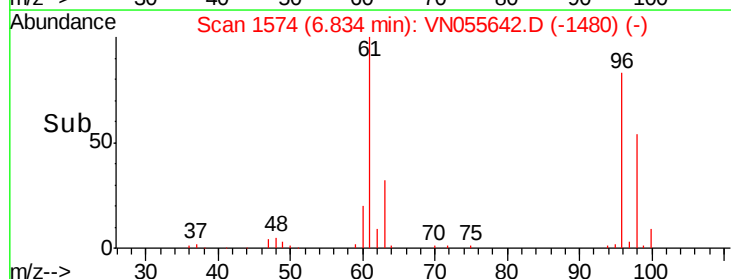
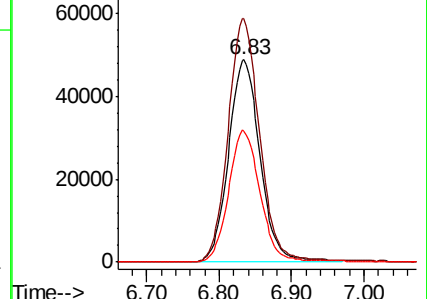
98 64.2 0.0 131.6

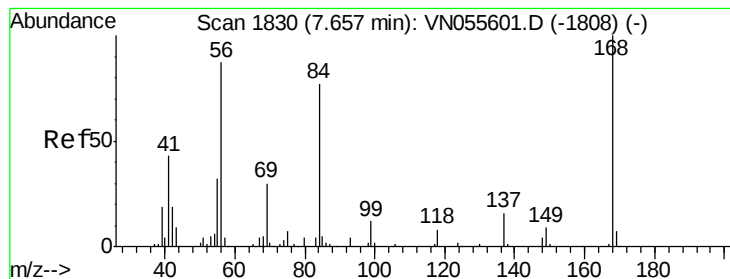


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#31

Cyclohexane

Concen: 0.957 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN055642.D

Acq: 18 May 2019 4:56

Instrument :

MSVOA_N

ClientSampled :

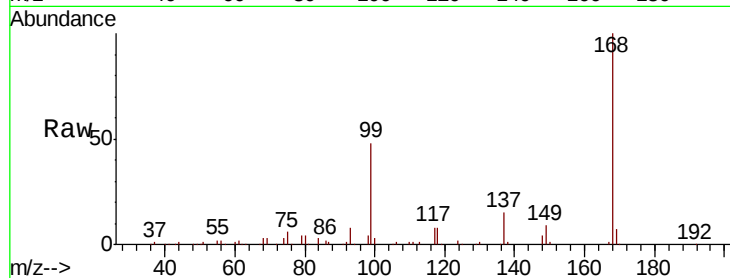
Tot Ion: 56 Resp: 6229

Ion Ratio Lower Upper

56 100

69 180.6 27.2 40.8#

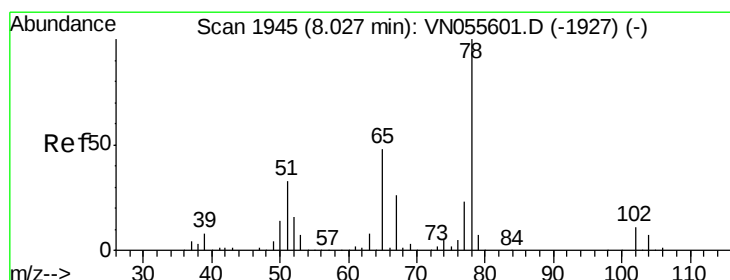
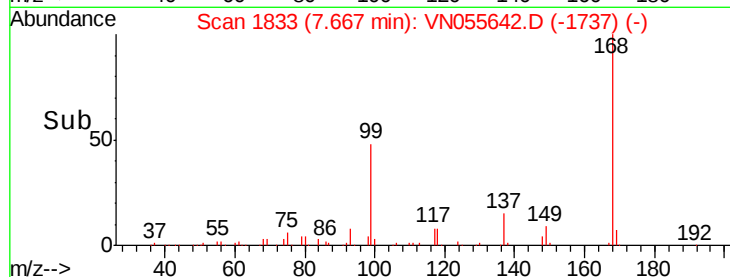
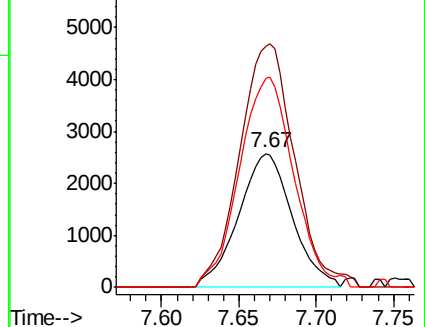
84 157.0 71.3 106.9#



Abundance Ion 56.00 (55.70 to 56.70): VN055642.D (-1737) (-)

Ion 69.00 (68.70 to 69.70): VN055642.D (-1737) (-)

Ion 84.00 (83.70 to 84.70): VN055642.D (-1737) (-)



#33

1,2-Dichloroethane-d4

Concen: 42.431 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN055642.D

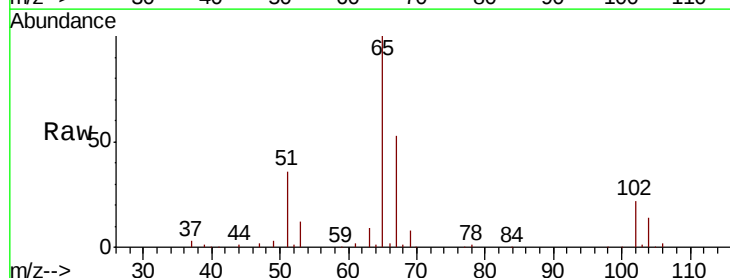
Acq: 18 May 2019 4:56

Tgt Ion: 65 Resp: 186137

Ion Ratio Lower Upper

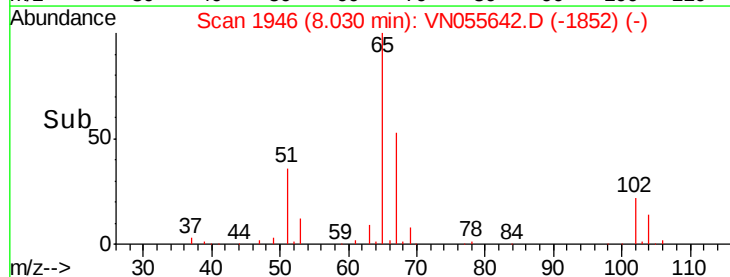
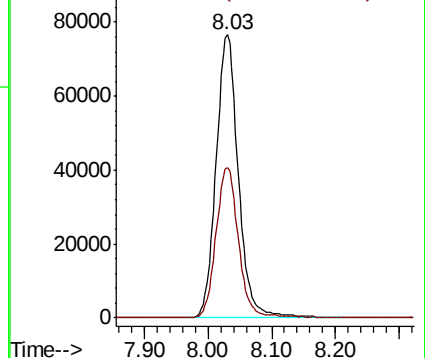
65 100

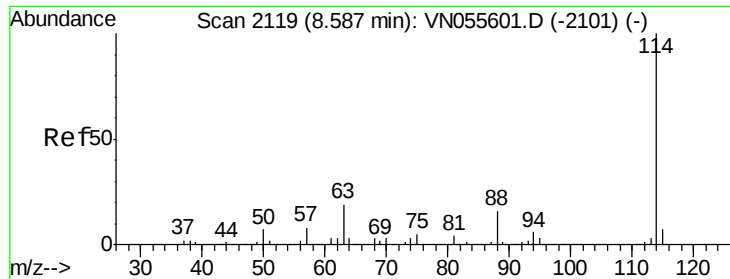
67 53.3 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VN055642.D (-1852) (-)

Ion 66.90 (66.60 to 67.60): VN055642.D (-1852) (-)

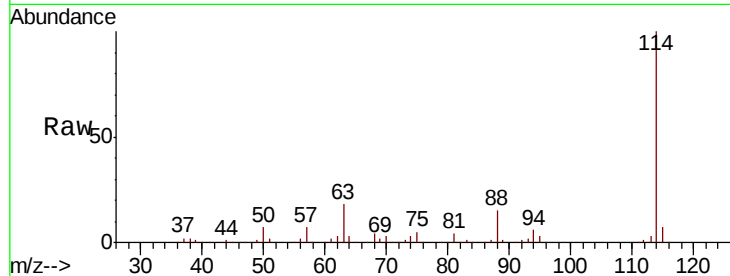




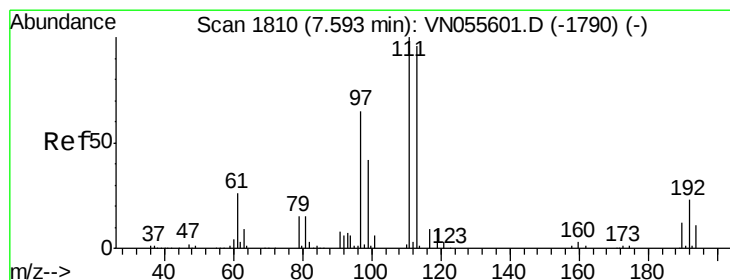
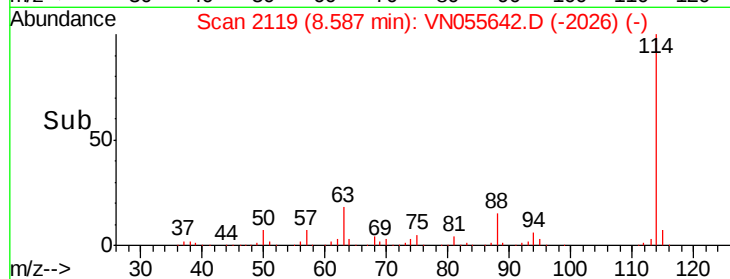
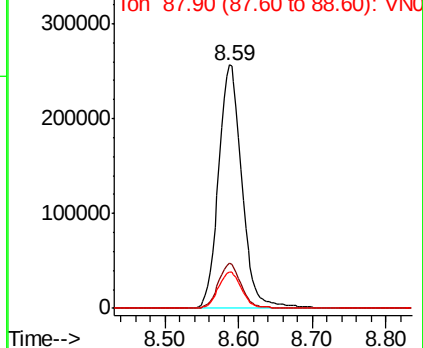
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055642.D
 Acq: 18 May 2019 4:56

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 564996
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 38.2
 88 15.0 0.0 31.0

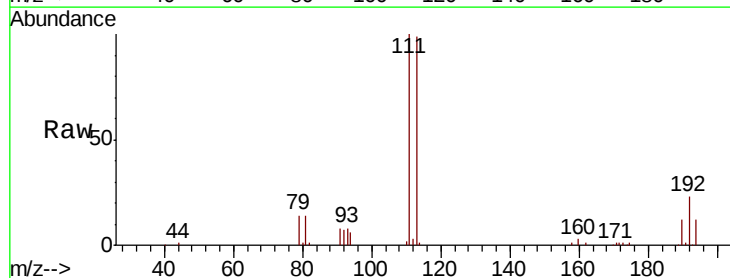


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

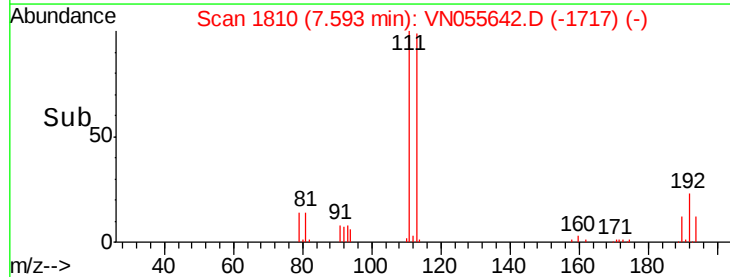
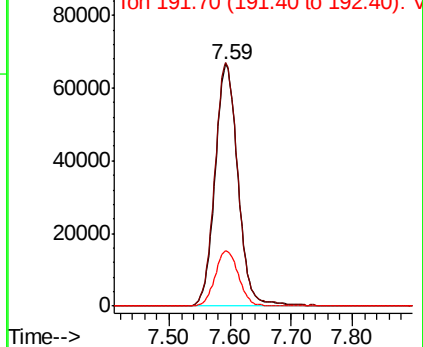


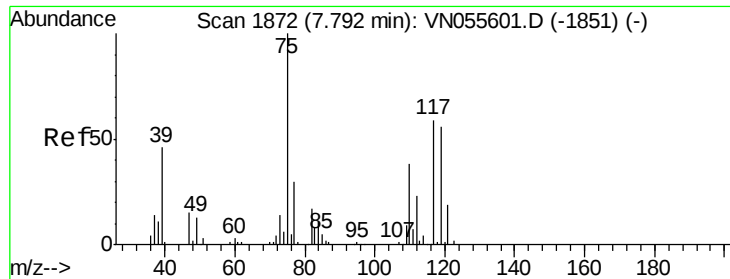
#35
 Dibromofluoromethane
 Concen: 48.344 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN055642.D
 Acq: 18 May 2019 4:56

Tgt Ion:113 Resp: 173513
 Ion Ratio Lower Upper
 113 100
 111 101.3 82.5 123.7
 192 23.3 18.7 28.1



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

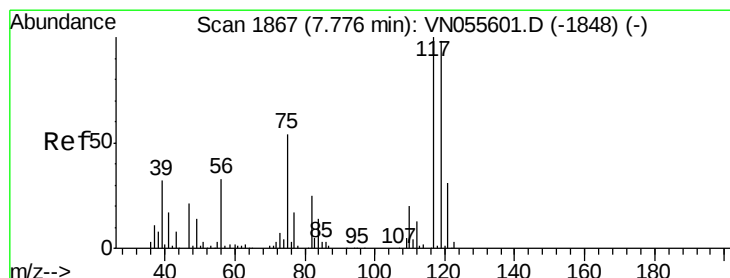
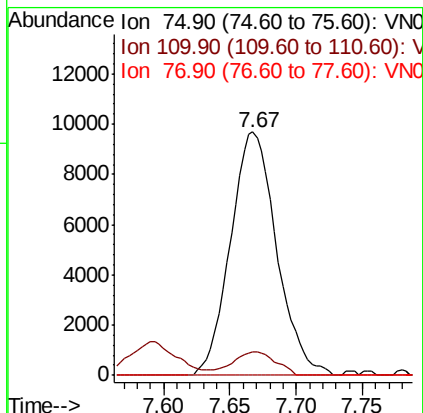
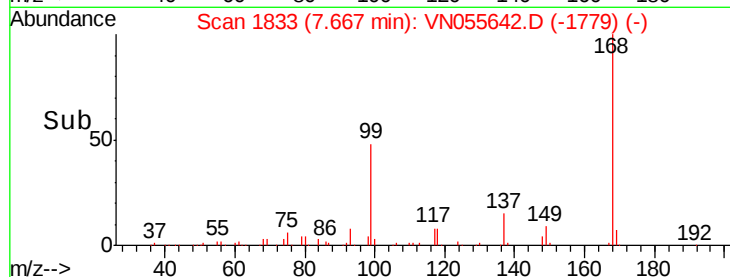
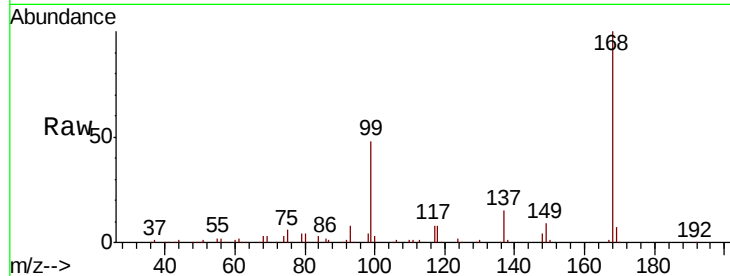




#36
 1,1-Dichloropropene
 Concen: 4.654 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN055642.D
 Acq: 18 May 2019 4:56

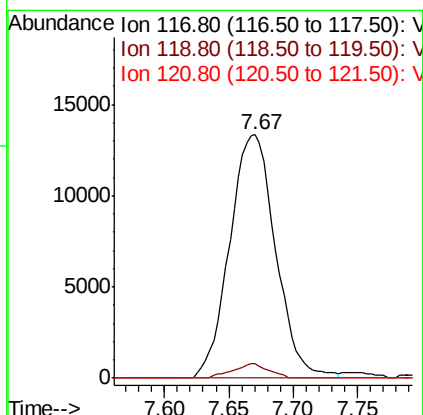
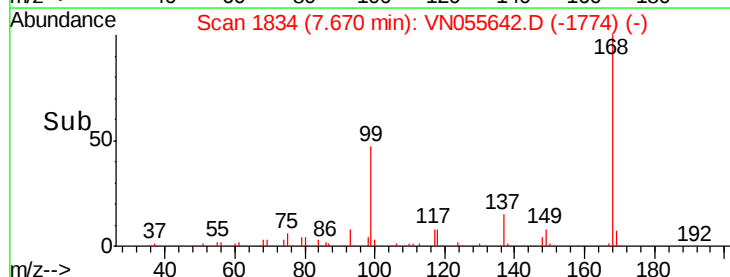
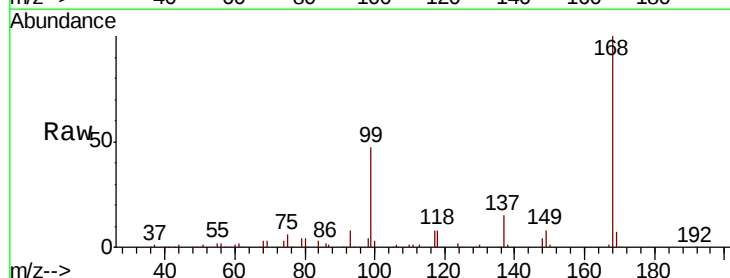
Instrument :
 MSVOA_N
 ClientSampleId :

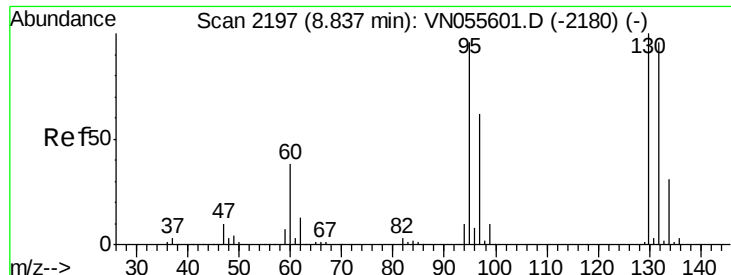
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.2	18.6	55.6#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 6.141 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.11 min
 Lab File: VN055642.D
 Acq: 18 May 2019 4:56

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.7	77.8	116.8#
121	0.0	24.6	37.0#

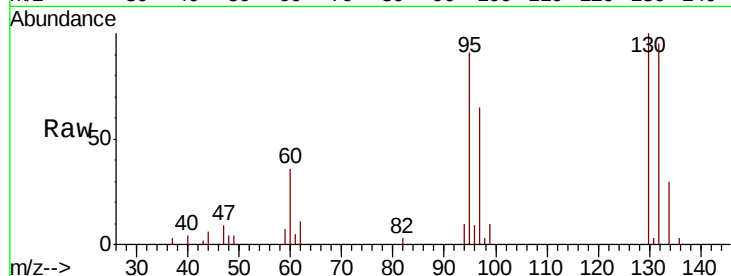




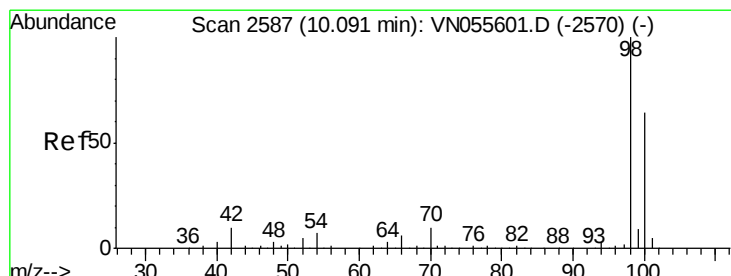
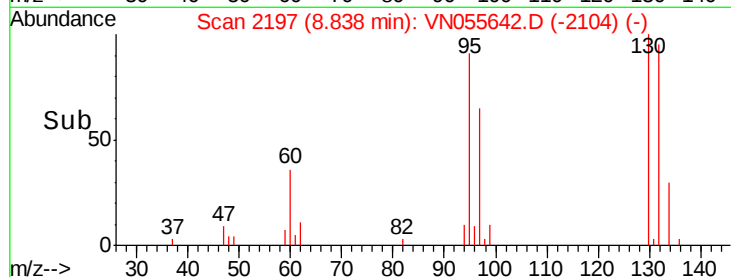
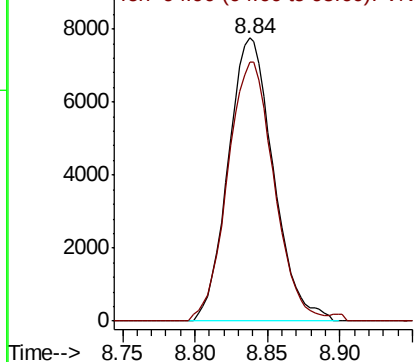
#44
 Trichloroethene
 Concen: 4.019 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN055642.D
 Acq: 18 May 2019 4:56

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:130 Resp: 16803
 Ion Ratio Lower Upper
 130 100
 95 91.4 0.0 191.0

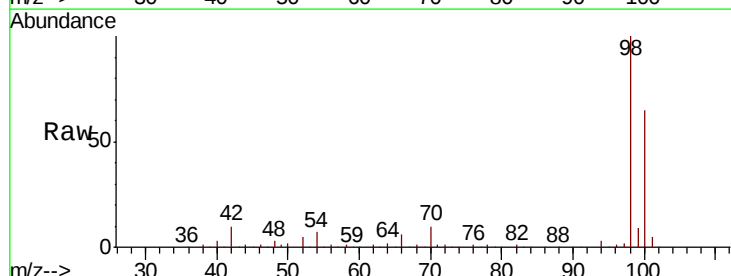


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VN

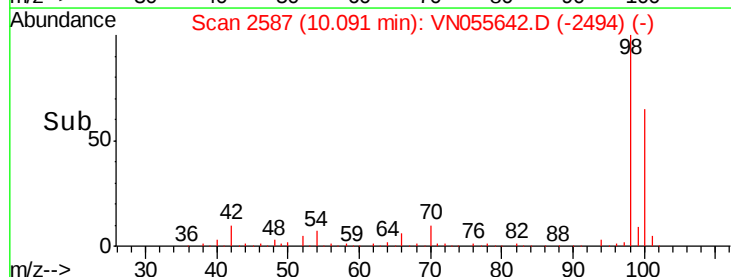
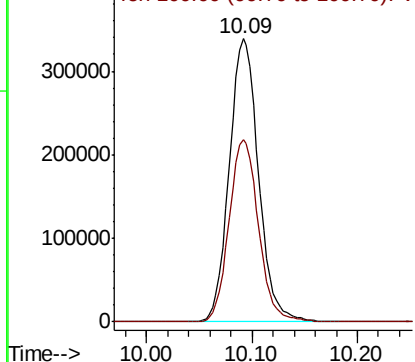


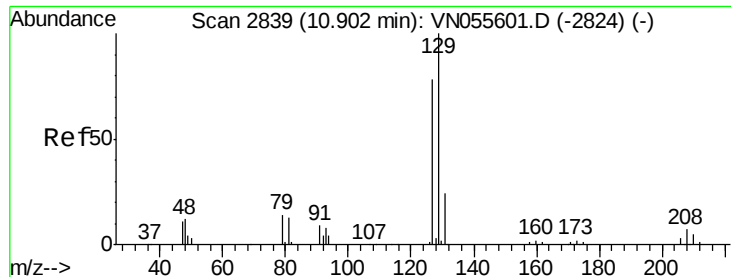
#50
 Toluene-d8
 Concen: 47.918 ug/l
 RT: 10.09 min Scan# 2587
 Delta R.T. 0.00 min
 Lab File: VN055642.D
 Acq: 18 May 2019 4:56

Tgt Ion: 98 Resp: 650291
 Ion Ratio Lower Upper
 98 100
 100 64.8 51.9 77.9



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

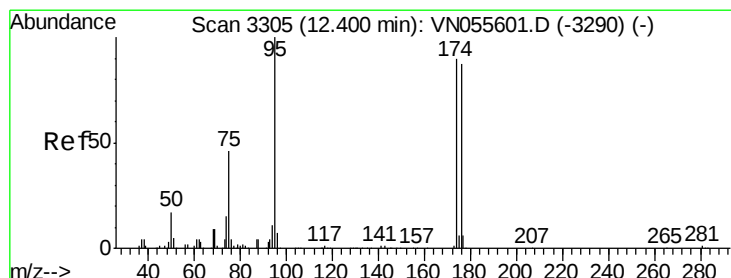
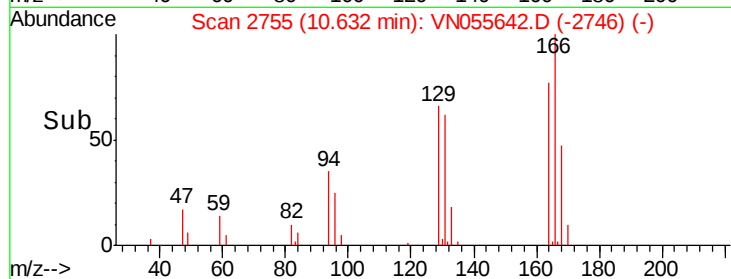
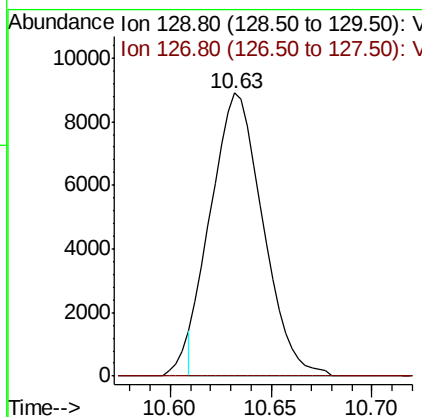
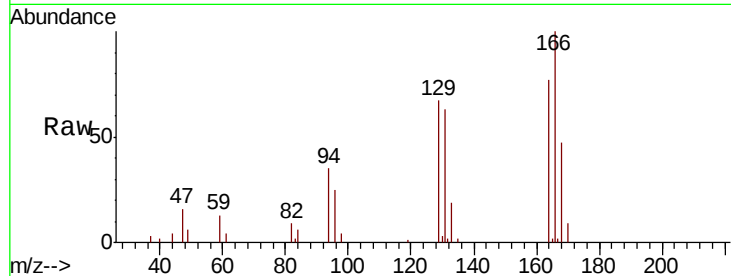




#60
 Dibromochloromethane
 Concen: 3.678 ug/l
 RT: 10.63 min Scan# 2755
 Delta R.T. -0.27 min
 Lab File: VN055642.D
 Acq: 18 May 2019 4:56

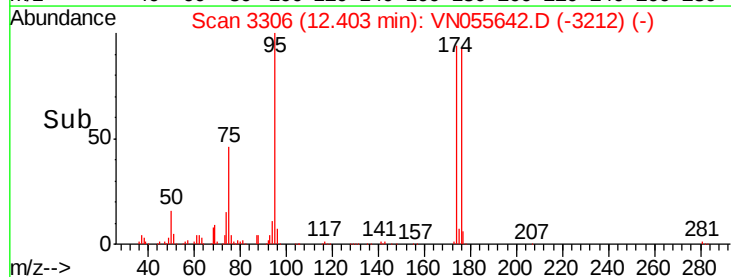
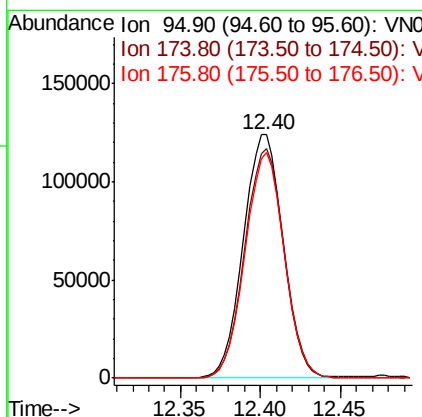
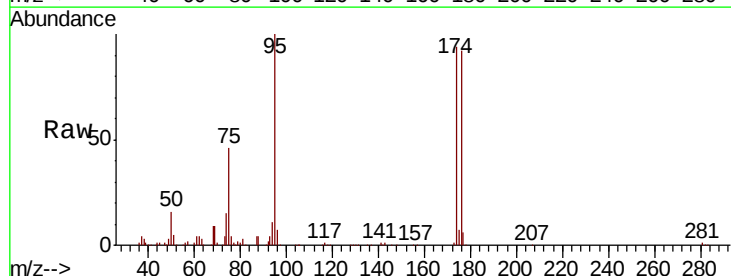
Instrument :
 MSVOA_N
 ClientSampleId :

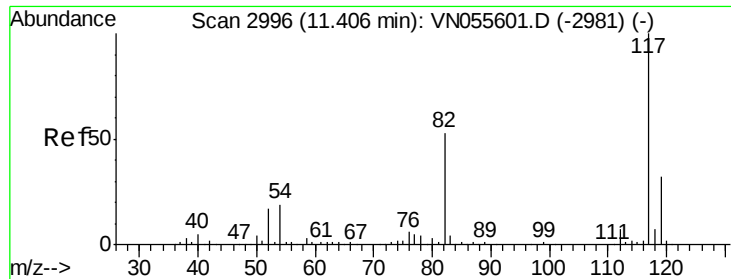
Tot Ion:129 Resp: 15946
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.6 115.8#



#62
 4-Bromofluorobenzene
 Concen: 44.806 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN055642.D
 Acq: 18 May 2019 4:56

Tgt Ion: 95 Resp: 209969
 Ion Ratio Lower Upper
 95 100
 174 94.0 0.0 180.6
 176 91.4 0.0 177.4

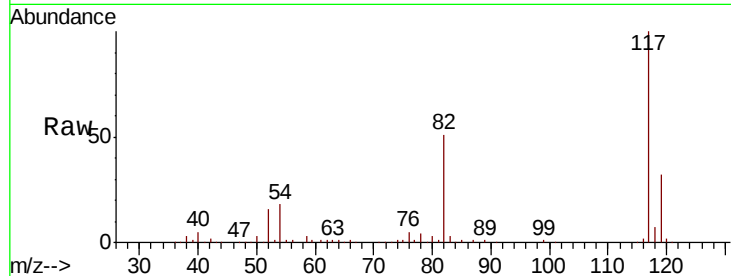




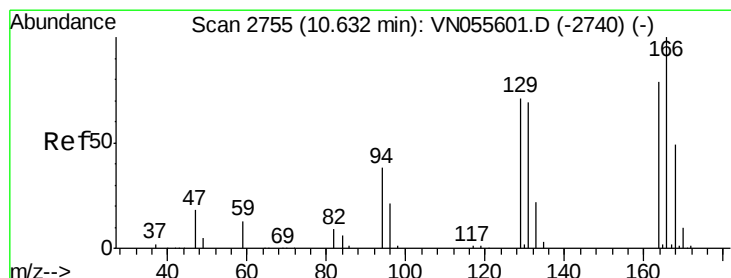
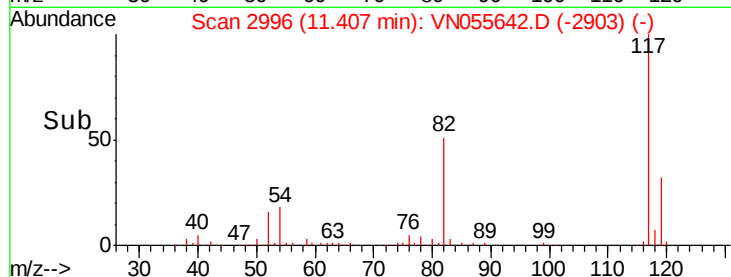
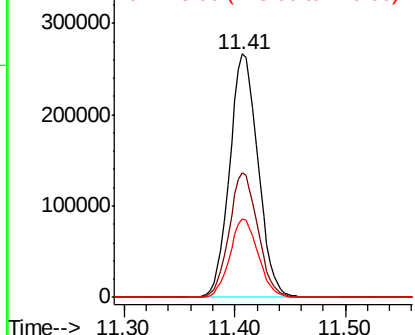
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055642.D
Acq: 18 May 2019 4:56

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 477613
Ion Ratio Lower Upper
117 100
82 51.3 42.3 63.5
119 32.0 25.4 38.2

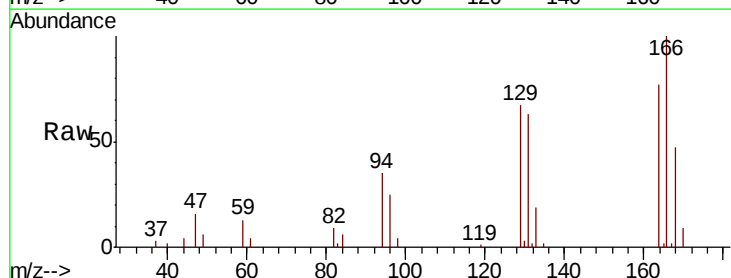


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

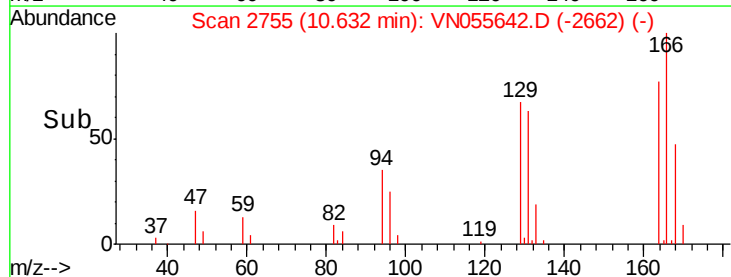
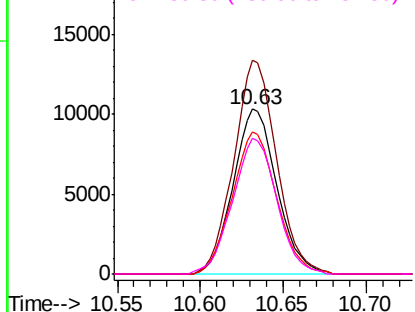


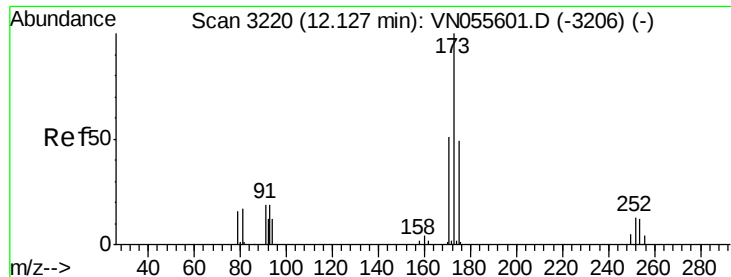
#64
Tetrachloroethene
Concen: 5.026 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN055642.D
Acq: 18 May 2019 4:56

Tgt Ion:164 Resp: 18934
Ion Ratio Lower Upper
164 100
166 129.8 101.0 151.6
129 86.4 71.7 107.5
131 82.2 69.6 104.4



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#71

Bromoform

Concen: 0.438 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055642.D

Acq: 18 May 2019 4:56

Instrument :

MSVOA_N

ClientSampled :

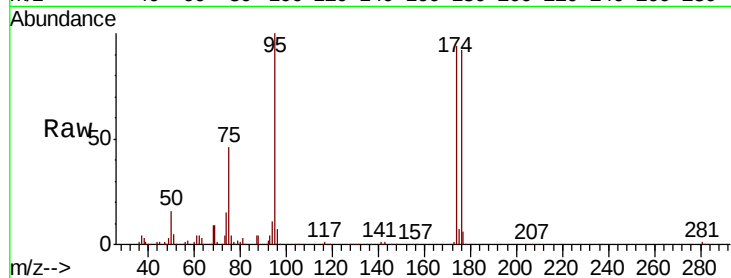
Tot Ion:173 Resp: 1441

Ion Ratio Lower Upper

173 100

175 862.1 24.3 72.9#

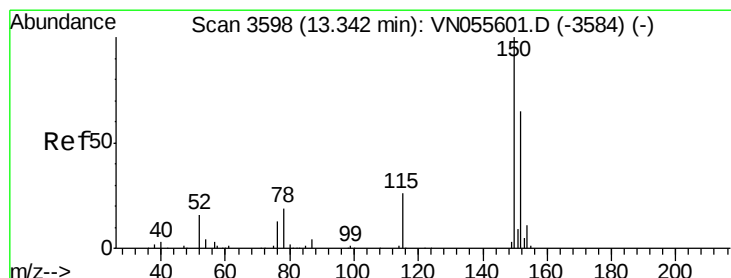
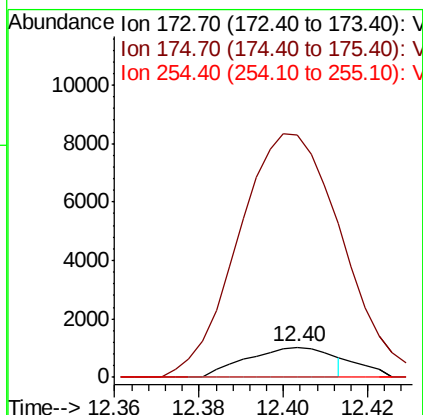
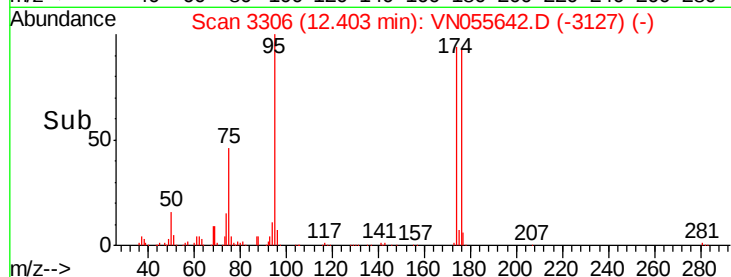
254 0.0 0.1 0.1#



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: VN055642.D

Acq: 18 May 2019 4:56

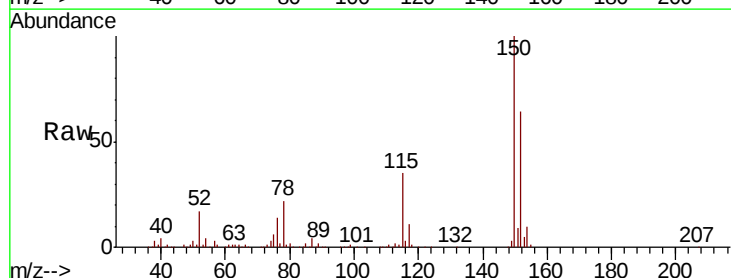
Tgt Ion:152 Resp: 192194

Ion Ratio Lower Upper

152 100

115 55.2 28.1 84.2

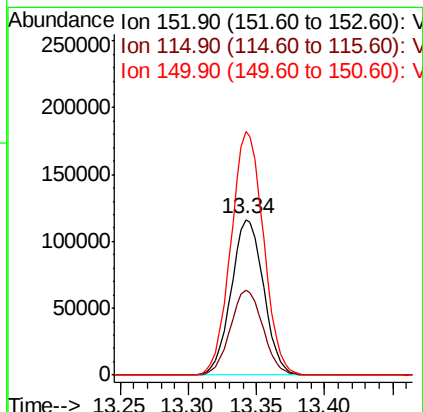
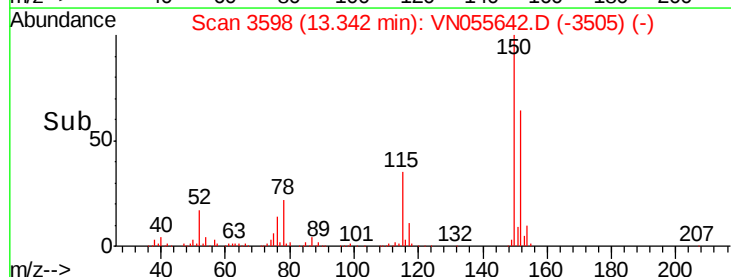
150 157.3 0.0 348.0

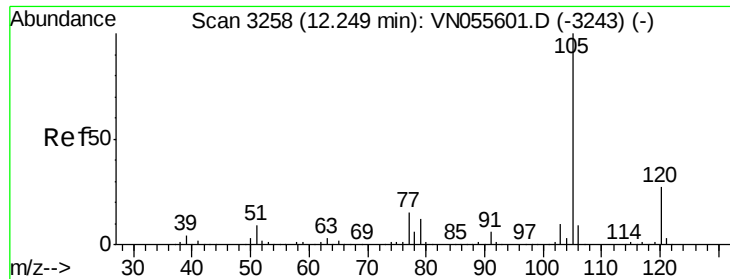


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN055642.D

Acq: 18 May 2019 4:56

Instrument :

MSVOA_N

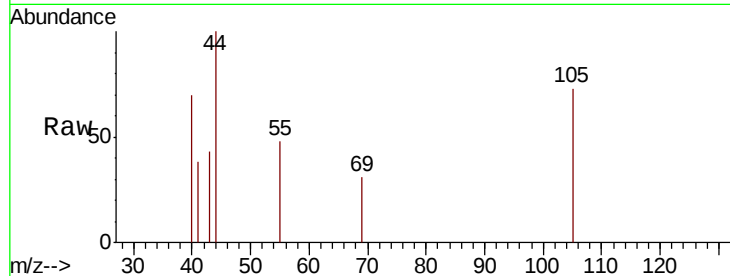
ClientSampleId :

Tot Ion: 105 Resp: 425

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

12.25

400

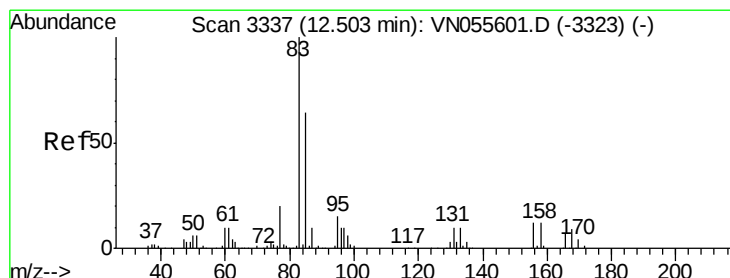
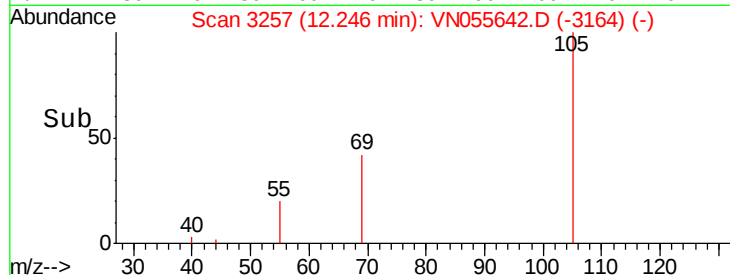
300

200

100

0

Time-->



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.56 min Scan# 3355

Delta R.T. 0.06 min

Lab File: VN055642.D

Acq: 18 May 2019 4:56

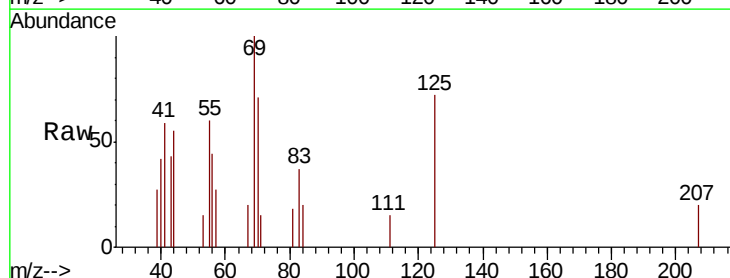
Tgt Ion: 83 Resp: 595

Ion Ratio Lower Upper

83 100

131 0.0 5.3 16.1#

85 0.0 32.0 96.2#



Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V

500

400

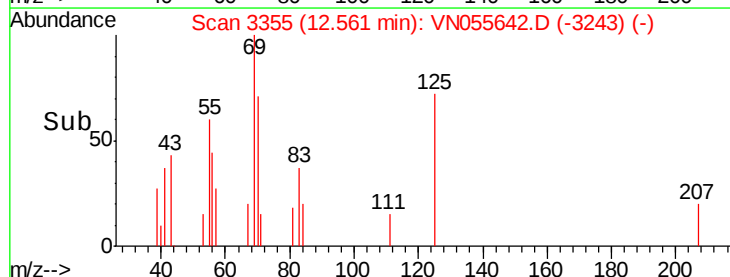
300

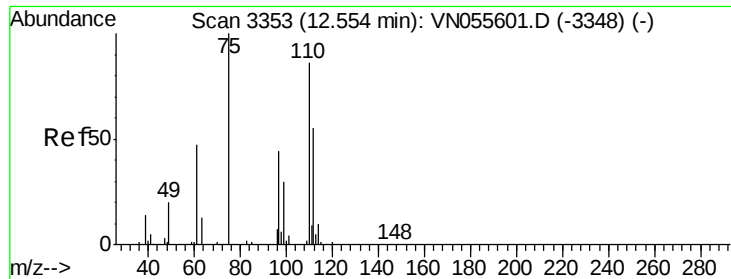
200

100

0

Time-->





#76

1,2,3-Trichloropropane

Concen: 24.884 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055642.D

Acq: 18 May 2019 4:56

Instrument :

MSVOA_N

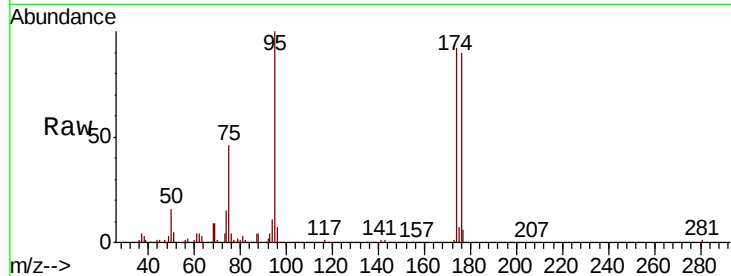
ClientSampleId :

Tot Ion: 75 Resp: 97588

Ion Ratio Lower Upper

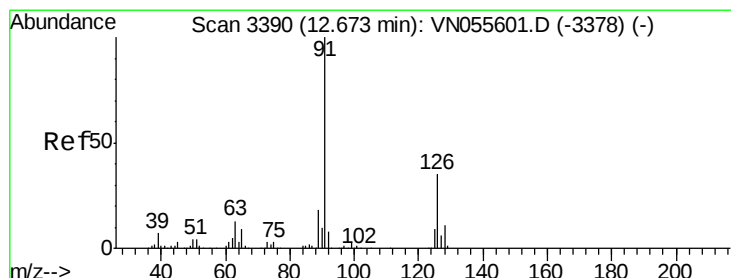
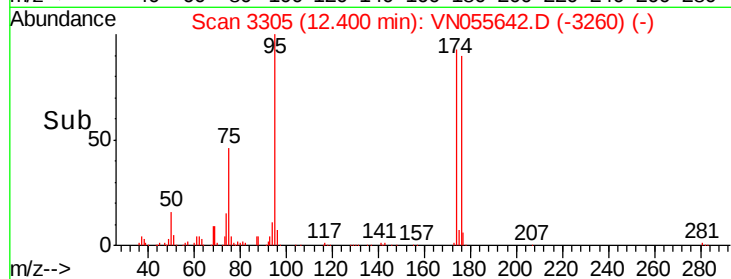
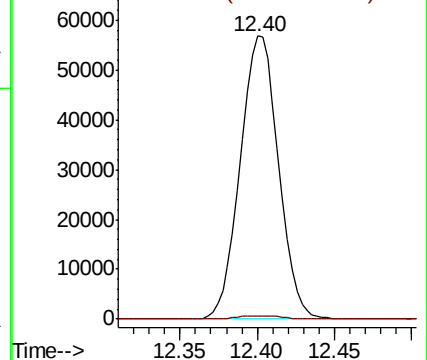
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055642.D

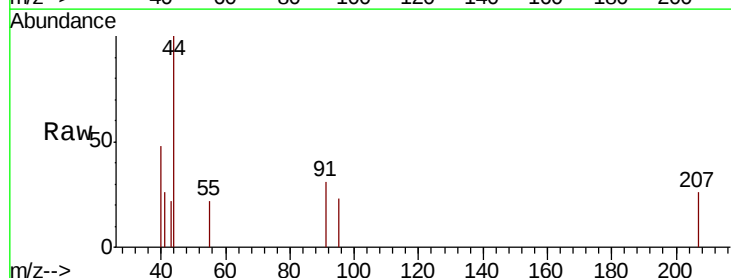
Acq: 18 May 2019 4:56

Tgt Ion: 91 Resp: 319

Ion Ratio Lower Upper

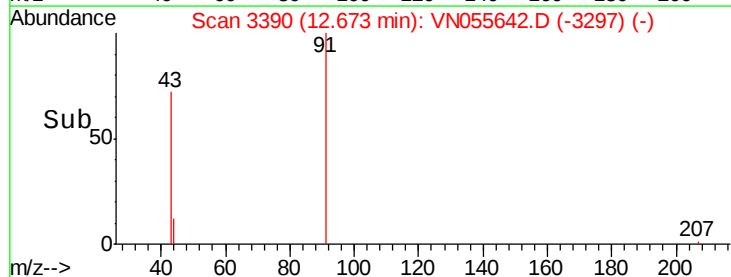
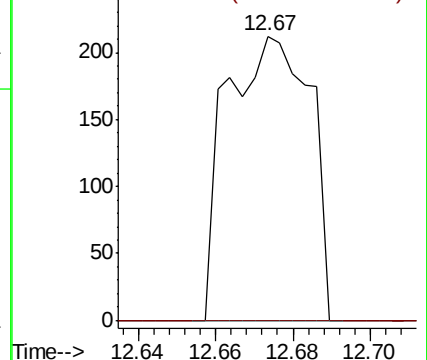
91 100

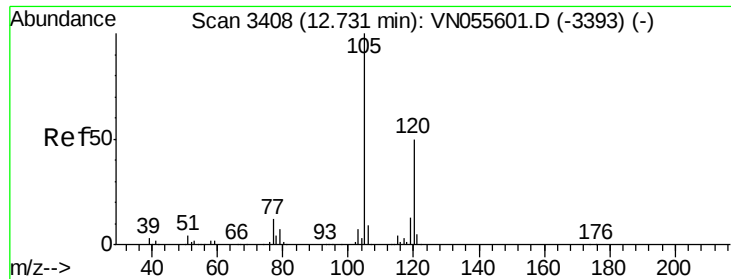
126 0.0 17.8 53.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

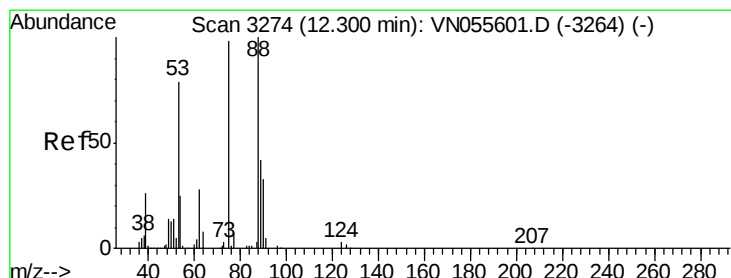
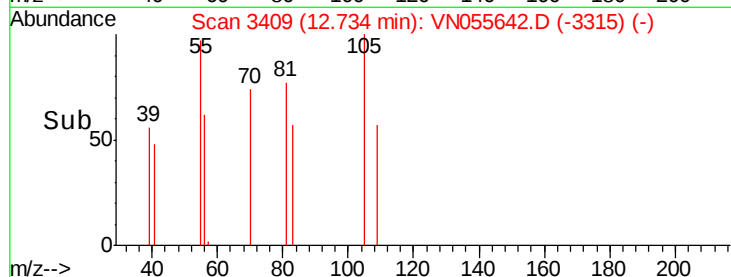
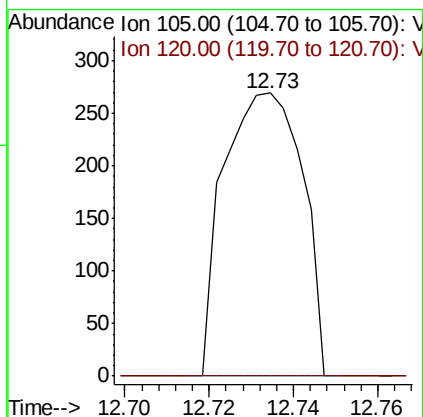
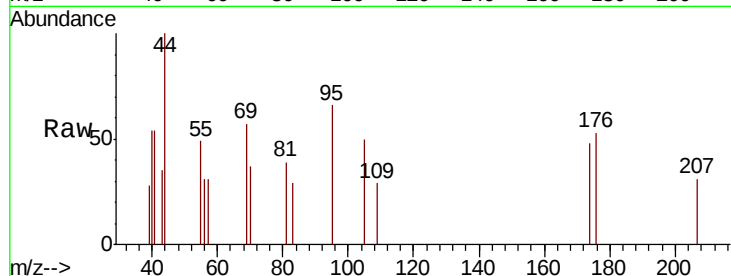




#80
 1,3,5-Trimethylbenzene
 Concen: Below Cal
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN055642.D
 Acq: 18 May 2019 4:56

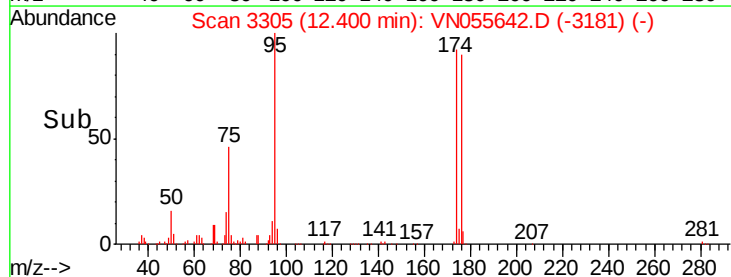
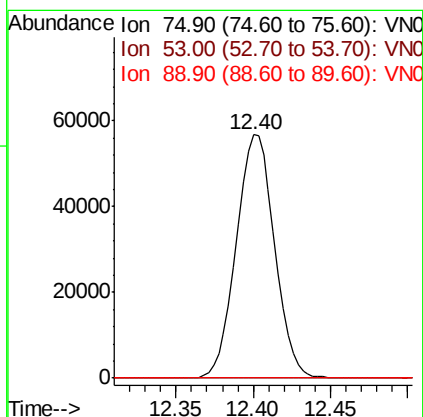
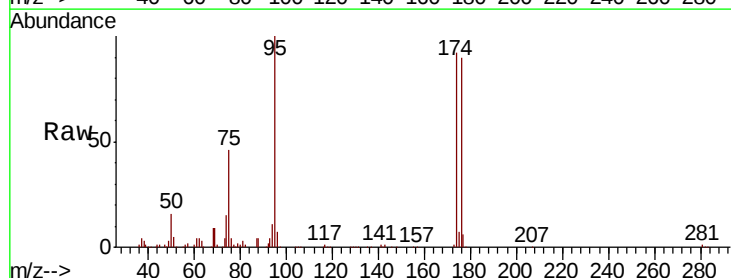
Instrument :
 MSVOA_N
 ClientSampled :

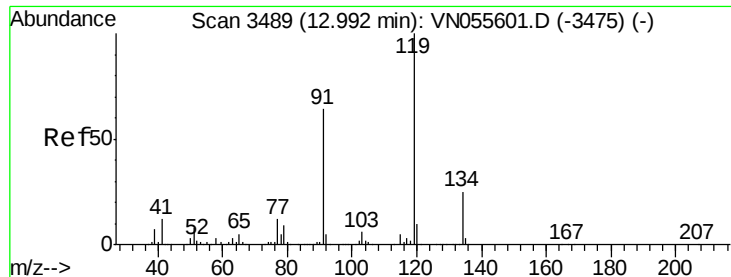
Tot Ion: 105 Resp: 349
 Ion Ratio Lower Upper
 105 100
 120 0.0 24.6 74.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.966 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN055642.D
 Acq: 18 May 2019 4:56

Tgt Ion: 75 Resp: 97588
 Ion Ratio Lower Upper
 75 100
 53 0.0 65.1 97.7#
 89 0.0 36.4 54.6#

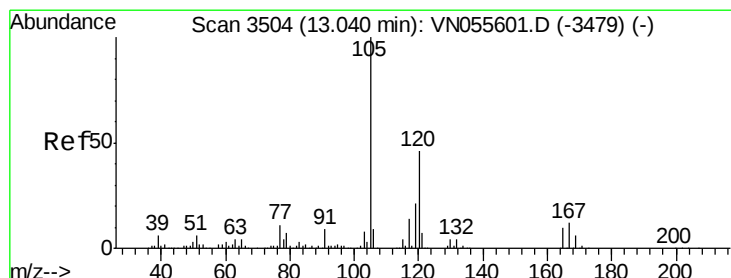
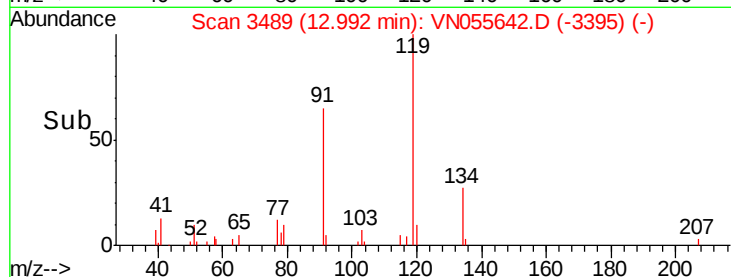
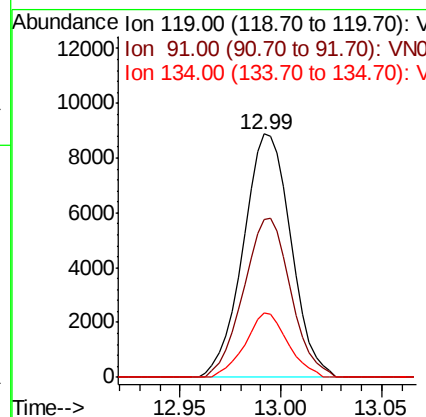
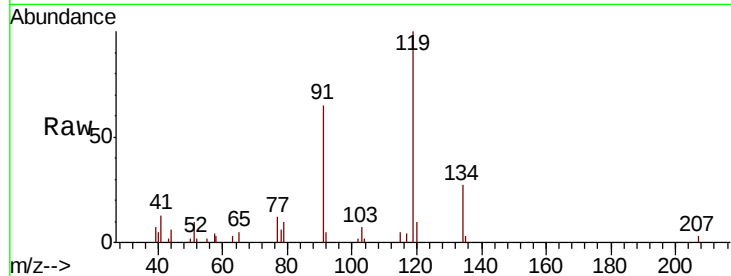




#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.99 min Scan# 3489
 Delta R.T. 0.00 min
 Lab File: VN055642.D
 Acq: 18 May 2019 4:56

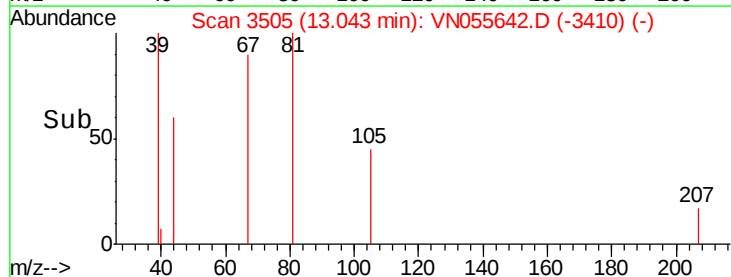
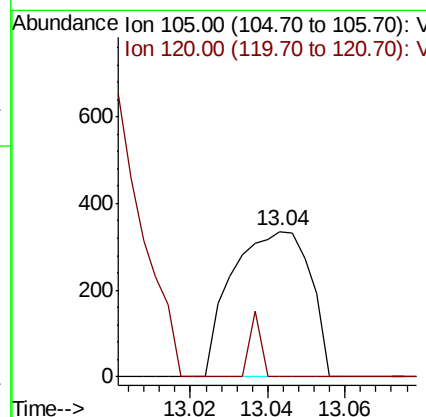
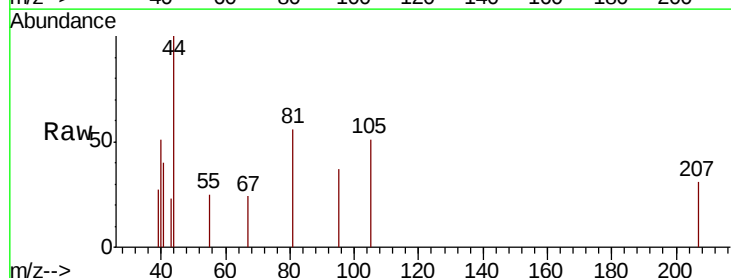
Instrument :
 MSVOA_N
 ClientSampled :

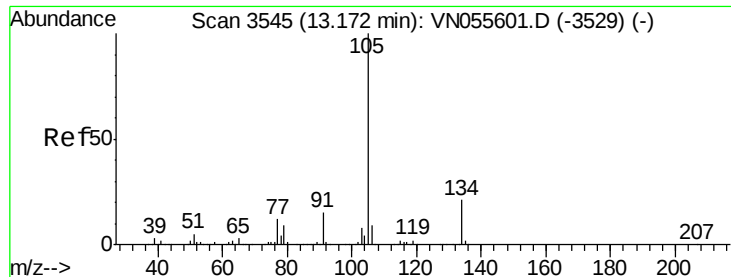
Tot Ion:119 Resp: 14708
 Ion Ratio Lower Upper
 119 100
 91 64.5 31.3 93.8
 134 23.8 13.2 39.6



#84
 1,2,4-Trimethylbenzene
 Concen: Below Cal
 RT: 13.04 min Scan# 3505
 Delta R.T. 0.00 min
 Lab File: VN055642.D
 Acq: 18 May 2019 4:56

Tgt Ion:105 Resp: 470
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.1 69.2#

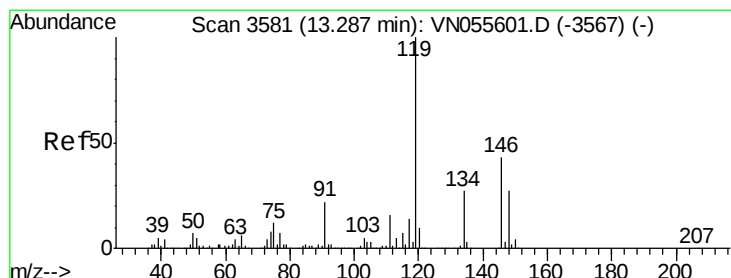
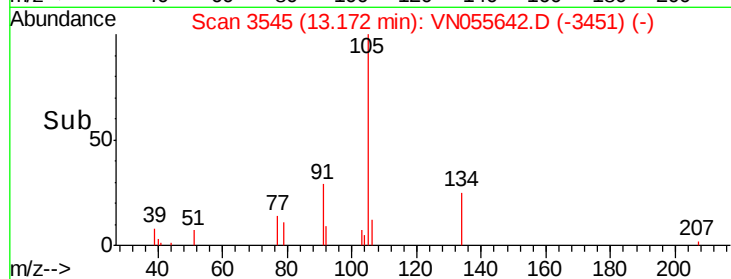
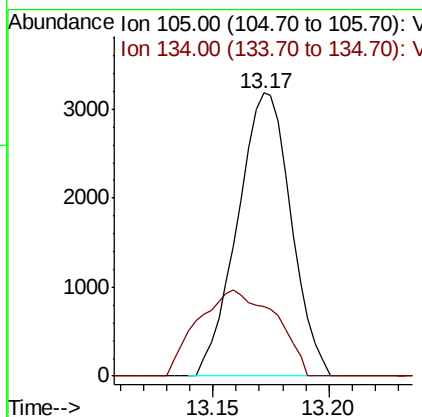
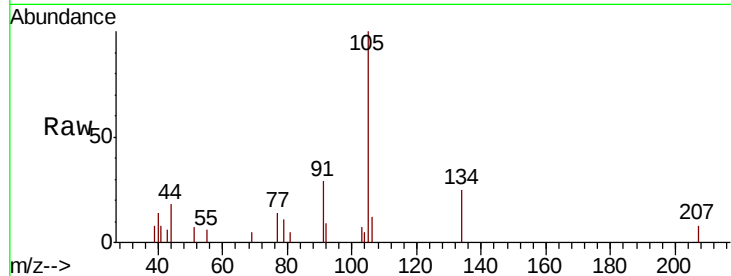




#85
 sec-Butylbenzene
 Concen: Below Cal
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN055642.D
 Acq: 18 May 2019 4:56

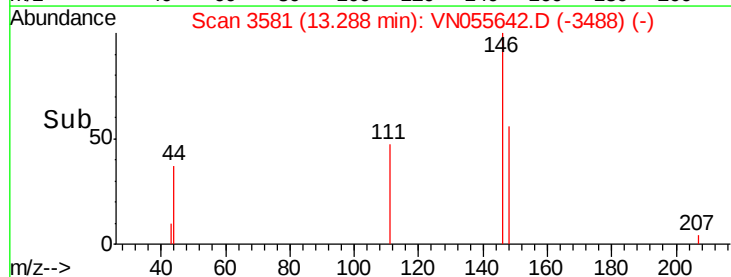
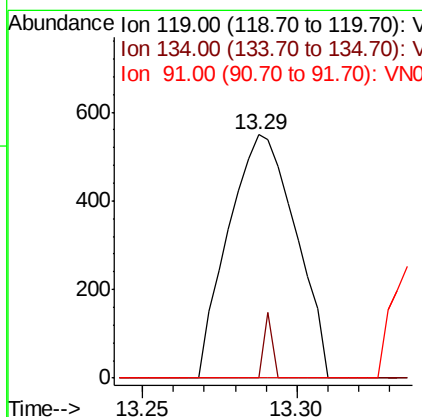
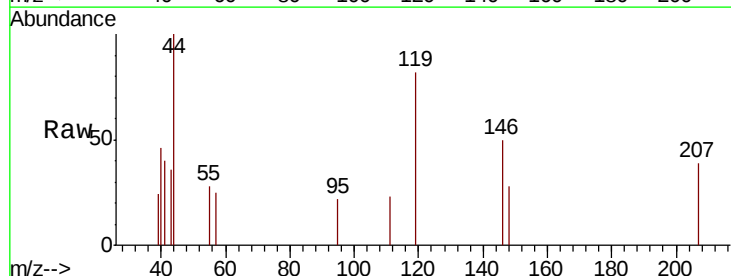
Instrument :
 MSVOA_N
 ClientSampled :

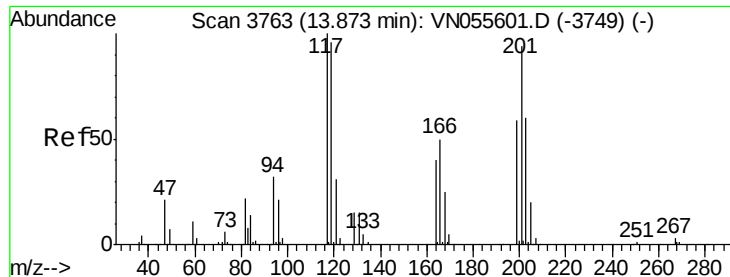
Tot Ion:105 Resp: 5123
 Ion Ratio Lower Upper
 105 100
 134 44.1 10.3 30.9#



#86
 p-Isopropyltoluene
 Concen: Below Cal
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN055642.D
 Acq: 18 May 2019 4:56

Tgt Ion:119 Resp: 830
 Ion Ratio Lower Upper
 119 100
 134 0.0 13.4 40.2#
 91 0.0 11.0 33.0#





#90

Hexachloroethane

Concen: Below Cal

RT: 13.99 min Scan# 3801

Delta R.T. 0.12 min

Lab File: VN055642.D

Acq: 18 May 2019 4:56

Instrument :

MSVOA_N

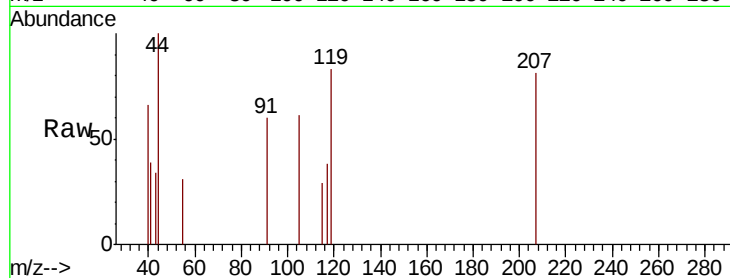
ClientSampleId :

Tot Ion:117 Resp: 184

Ion Ratio Lower Upper

117 100

201 0.0 47.1 141.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

13.99

200

150

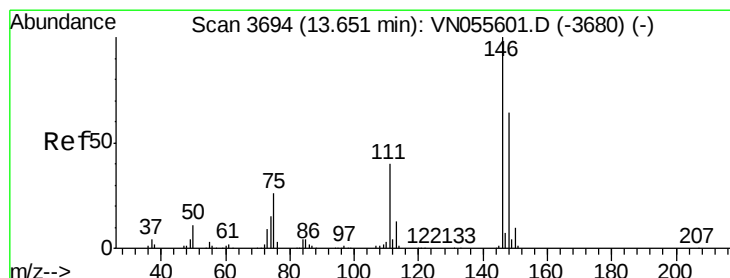
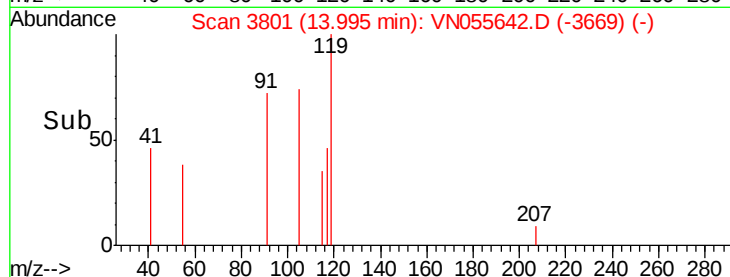
100

50

0

13.98 14.00

Time-->



#91

1,2-Dichlorobenzene

Concen: 0.687 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN055642.D

Acq: 18 May 2019 4:56

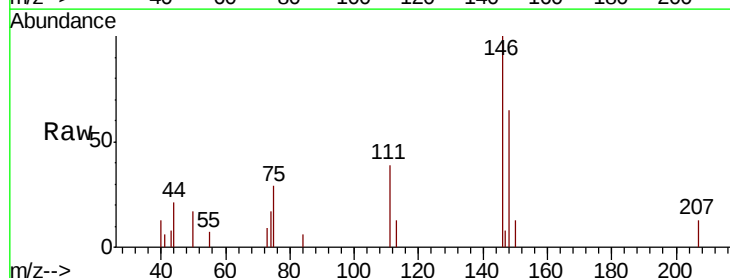
Tgt Ion:146 Resp: 4467

Ion Ratio Lower Upper

146 100

111 36.2 19.7 59.0

148 64.5 32.1 96.3



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

13.65

3000

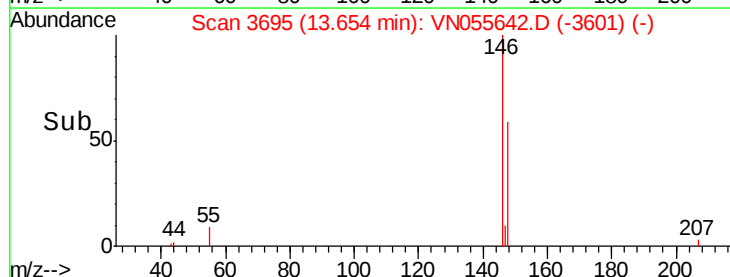
2000

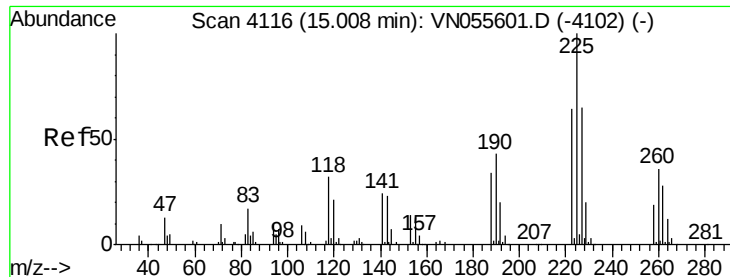
1000

0

13.60 13.65 13.70

Time-->





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VN055642.D

Acq: 18 May 2019 4:56

Instrument :

MSVOA_N

ClientSampled :

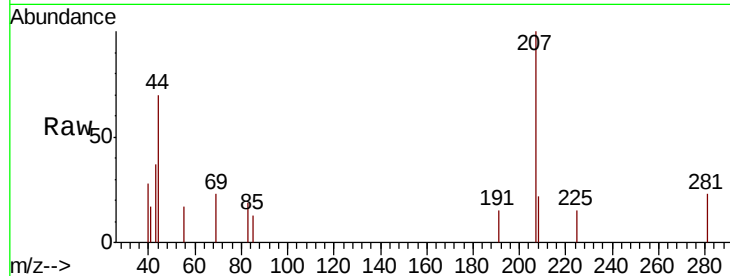
Tot Ion:225 Resp: 98

Ion Ratio Lower Upper

225 100

223 0.0 31.6 94.7#

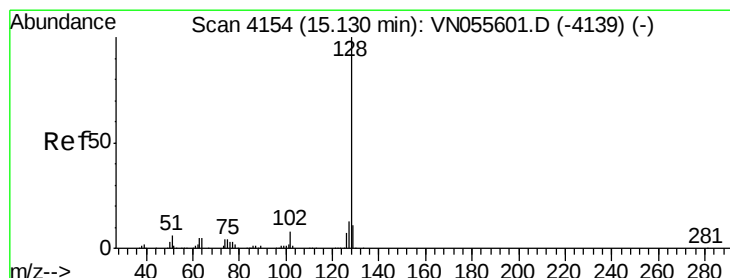
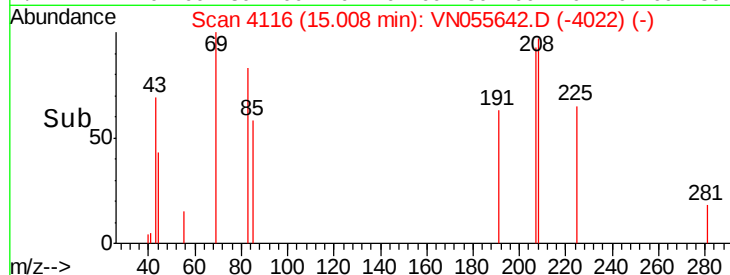
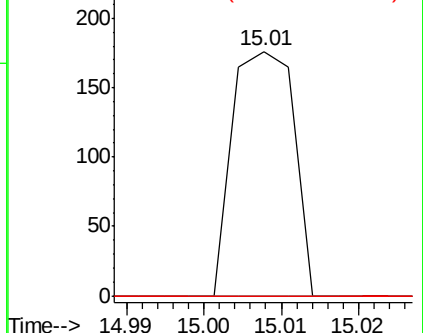
227 0.0 32.4 97.0#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 1.862 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN055642.D

Acq: 18 May 2019 4:56

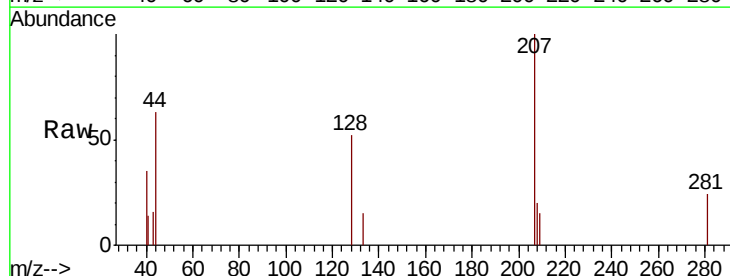
Tgt Ion:128 Resp: 1014

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

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

