

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072719\
 Data File : VN056945.D
 Acq On : 26 Jul 2019 16:35
 Operator : JC/SP
 Sample : VN0727WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0727WBL01

Quant Time: Jul 27 00:54:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 00:47:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	677310	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	980584	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	810903	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	239681	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	353597	51.00	ug/l	0.00
Spiked Amount			Recovery	=	102.00%	
35) Dibromofluoromethane	7.58	113	329722	52.53	ug/l	0.00
Spiked Amount			Recovery	=	105.06%	
50) Toluene-d8	10.08	98	1242061	51.89	ug/l	0.00
Spiked Amount			Recovery	=	103.78%	
62) 4-Bromofluorobenzene	12.40	95	336859	43.23	ug/l	0.00
Spiked Amount			Recovery	=	86.46%	

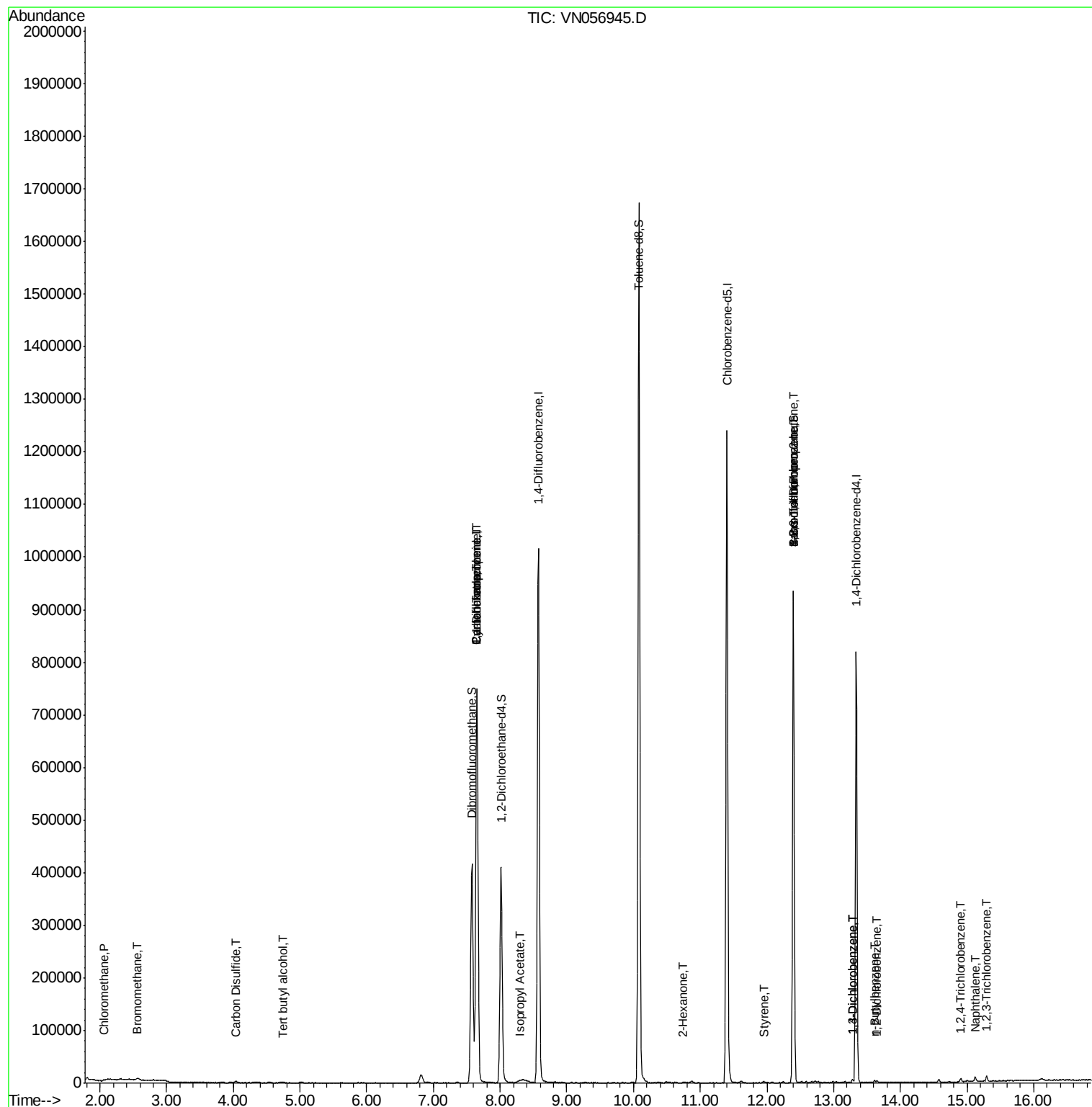
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.05	50	1848	0.225	ug/l	93
5) Bromomethane	2.57	94	1711	0.358	ug/l	82
11) Tert butyl alcohol	4.74	59	253	0.270	ug/l #	74
13) Acrolein	3.61	56	124	Below Cal	#	15
17) Carbon Disulfide	4.03	76	4604	0.291	ug/l #	89
31) Cyclohexane	7.65	56	10148	0.891	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	42598	4.937	ug/l #	47
38) Carbon Tetrachloride	7.65	117	58536	7.172	ug/l #	17
43) Isopropyl Acetate	8.29	43	3331	0.292	ug/l #	52
59) 2-Hexanone	10.75	43	2040	2.886	ug/l	80
70) Styrene	11.96	104	1172	1.929	ug/l #	81
71) Bromoform	12.40	173	2436	0.561	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.51	83	234	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.39	75	155944	32.038	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.39	75	155944	102.936	ug/l #	15
87) 1,3-Dichlorobenzene	13.28	146	1950	0.237	ug/l	88
88) 1,4-Dichlorobenzene	13.28	146	1950	0.246	ug/l	87
89) n-Butylbenzene	13.61	91	2905	0.219	ug/l	95
91) 1,2-Dichlorobenzene	13.65	146	1988	0.246	ug/l #	67
93) 1,2,4-Trichlorobenzene	14.91	180	3194	3.435	ug/l	96
94) Hexachlorobutadiene	15.01	225	726	Below Cal		82
95) Naphthalene	15.12	128	8824	4.392	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.29	180	4605	3.096	ug/l	92

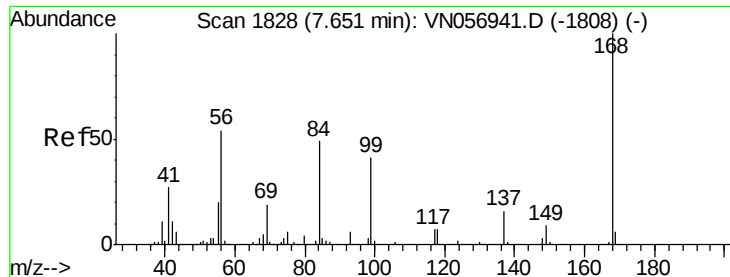
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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Quant Time: Jul 27 00:54:20 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N072719W.M
Quant Title : SW846 8260
QLast Update : Sat Jul 27 00:47:27 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN056945.D

Acq: 26 Jul 2019 16:35

Instrument :

MSVOA_N

ClientSampled :

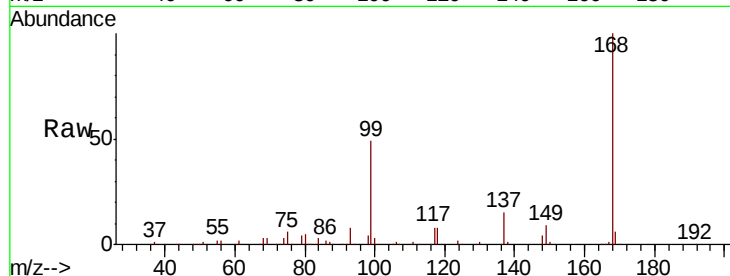
VN0727WBL01

Tot Ion:168 Resp: 677310

Ion Ratio Lower Upper

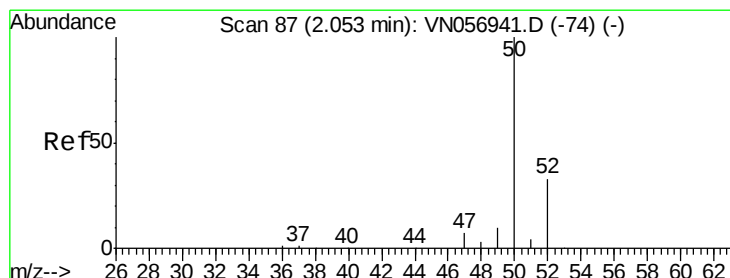
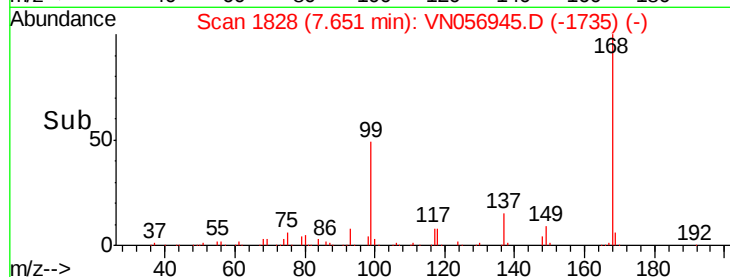
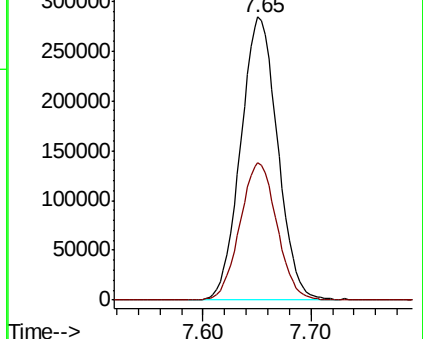
168 100

99 48.6 39.0 58.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: 0.225 ug/l

RT: 2.05 min Scan# 87

Delta R.T. 0.00 min

Lab File: VN056945.D

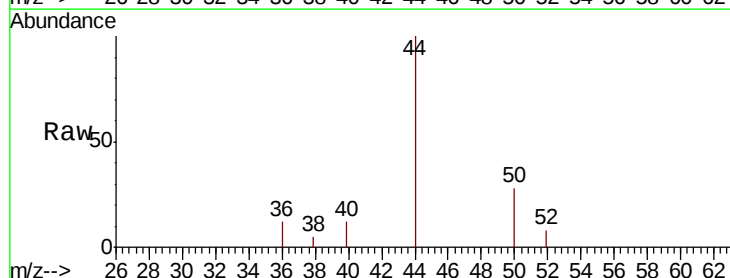
Acq: 26 Jul 2019 16:35

Tgt Ion: 50 Resp: 1848

Ion Ratio Lower Upper

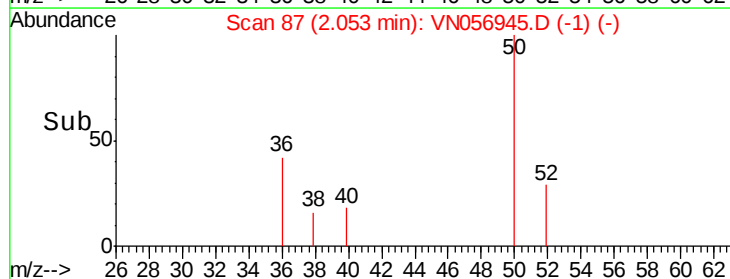
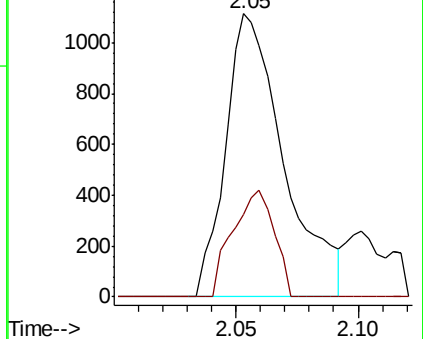
50 100

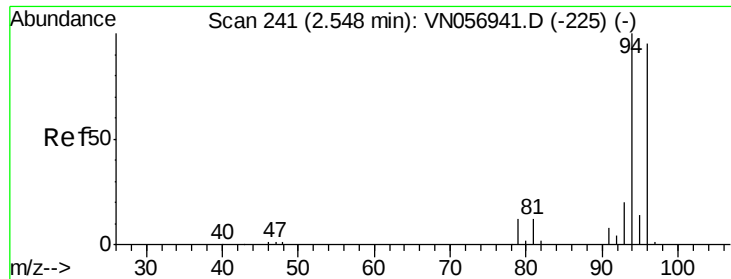
52 28.9 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

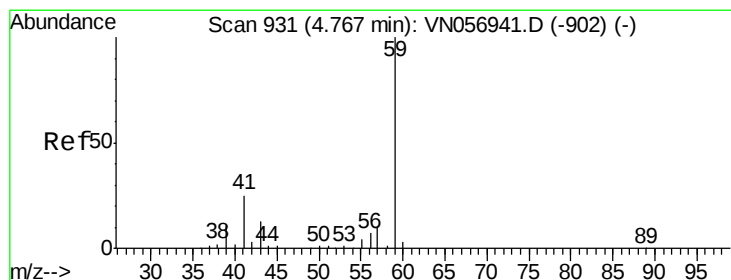
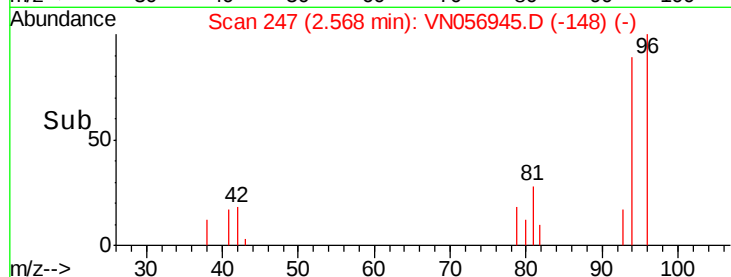
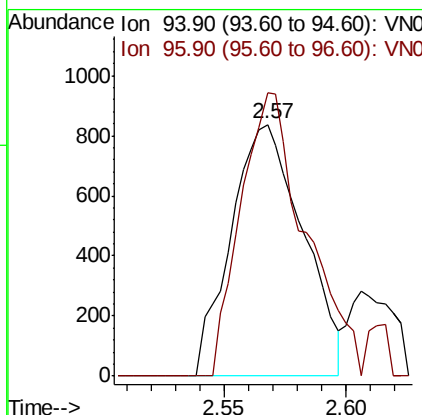
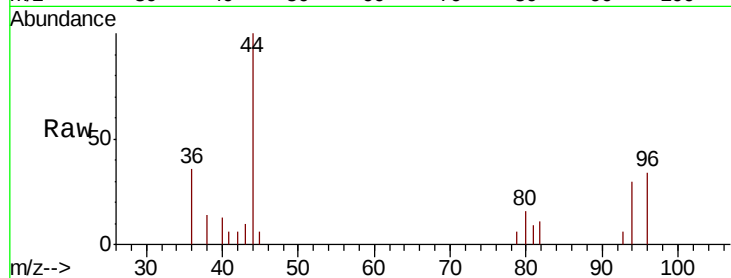




#5
Bromomethane
Concen: 0.358 ug/l
RT: 2.57 min Scan# 247
Delta R.T. 0.02 min
Lab File: VN056945.D
Acq: 26 Jul 2019 16:35

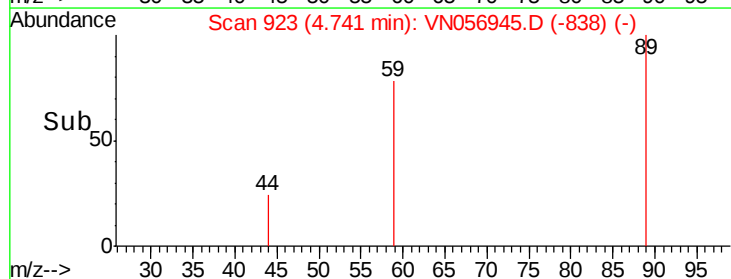
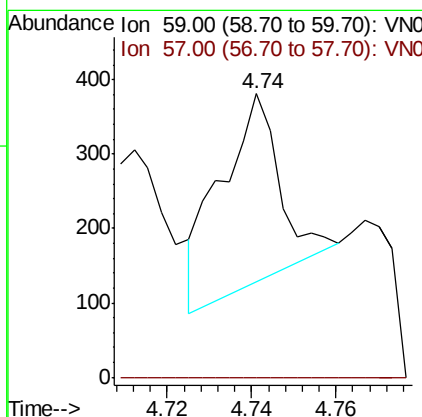
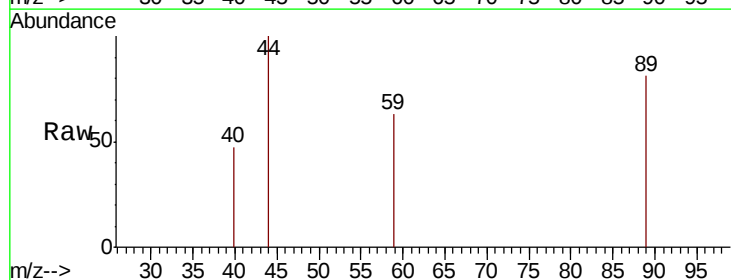
Instrument :
MSVOA_N
ClientSampled :
VN0727WBL01

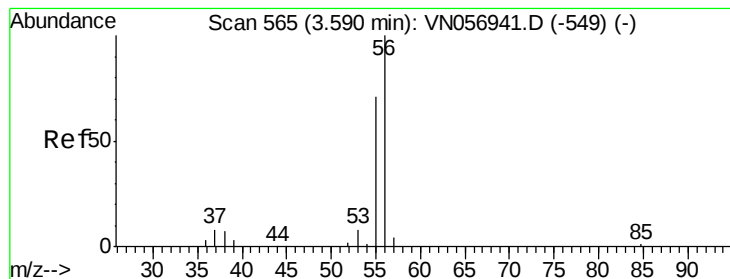
Tot Ion: 94 Resp: 1711
Ion Ratio Lower Upper
94 100
96 112.4 76.2 114.2



#11
Tert butyl alcohol
Concen: 0.270 ug/l
RT: 4.74 min Scan# 923
Delta R.T. -0.03 min
Lab File: VN056945.D
Acq: 26 Jul 2019 16:35

Tgt Ion: 59 Resp: 253
Ion Ratio Lower Upper
59 100
57 0.0 7.5 11.3#





#13

Acrolein

Concen: Below Cal

RT: 3.61 min Scan# 571

Delta R.T. 0.02 min

Lab File: VN056945.D

Acq: 26 Jul 2019 16:35

Instrument :

MSVOA_N

ClientSampleId :

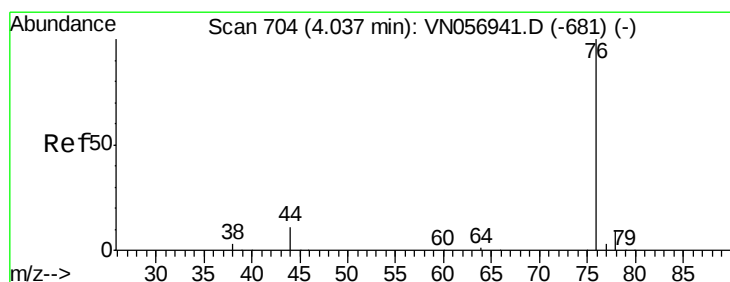
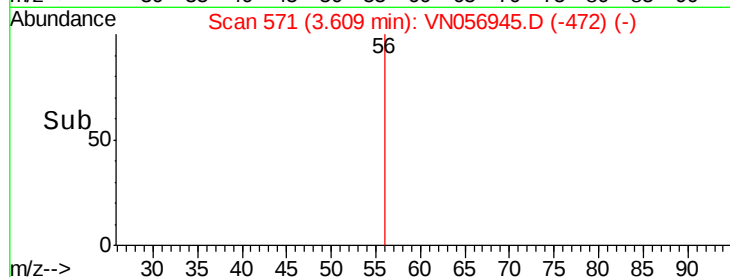
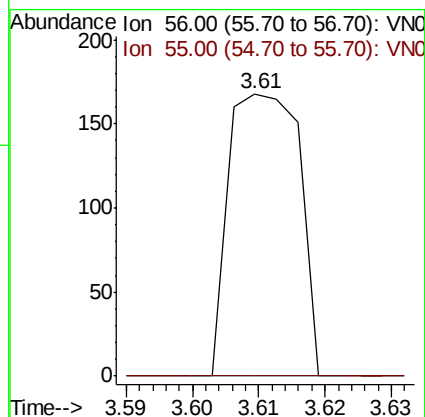
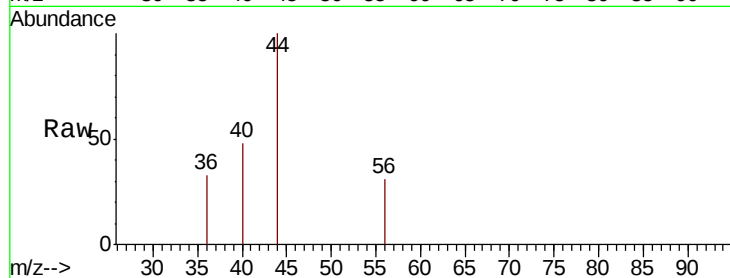
VN0727WBL01

Tot Ion: 56 Resp: 124

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.6#



#17

Carbon Disulfide

Concen: 0.291 ug/l

RT: 4.03 min Scan# 703

Delta R.T. -0.00 min

Lab File: VN056945.D

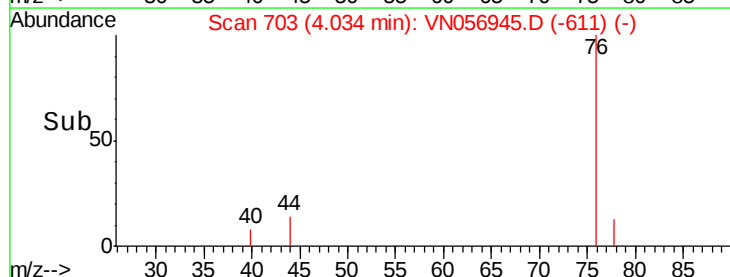
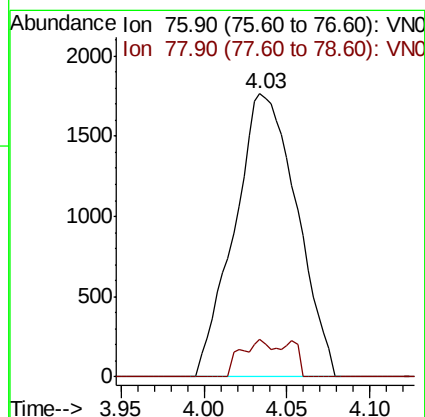
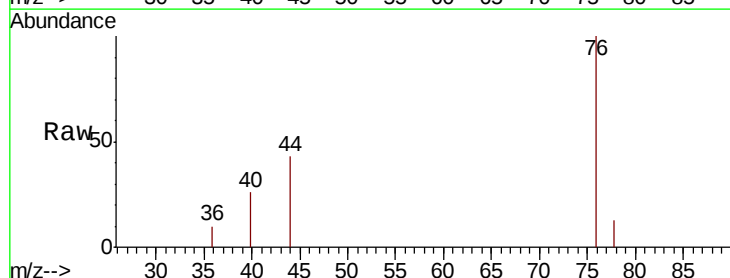
Acq: 26 Jul 2019 16:35

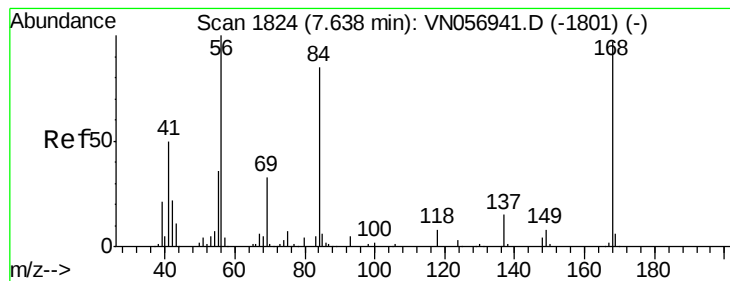
Tgt Ion: 76 Resp: 4604

Ion Ratio Lower Upper

76 100

78 13.2 7.2 10.8#





#31

Cyclohexane

Concen: 0.891 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN056945.D

Acq: 26 Jul 2019 16:35

Instrument :

MSVOA_N

ClientSampled :

VN0727WBL01

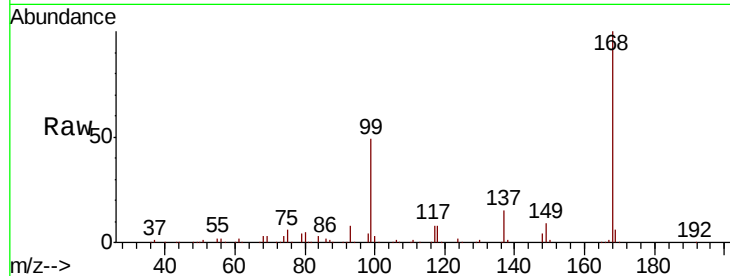
Tot Ion: 56 Resp: 10148

Ion Ratio Lower Upper

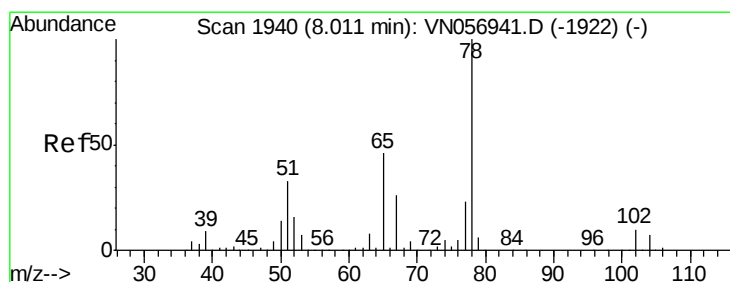
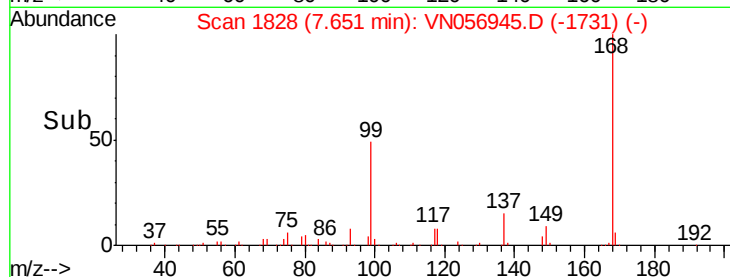
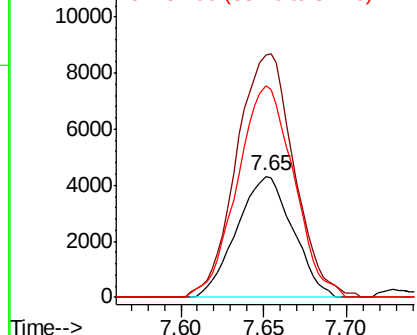
56 100

69 195.7 26.2 39.2#

84 171.2 68.2 102.2#



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



#33

1,2-Dichloroethane-d4

Concen: 51.000 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN056945.D

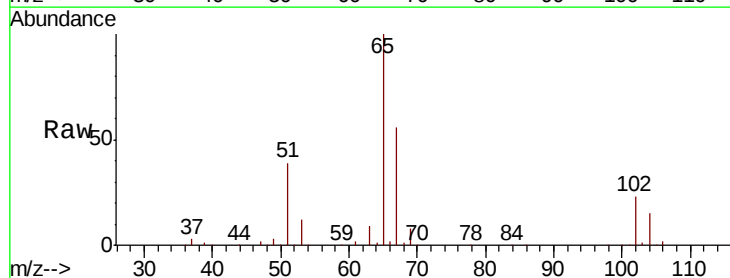
Acq: 26 Jul 2019 16:35

Tgt Ion: 65 Resp: 353597

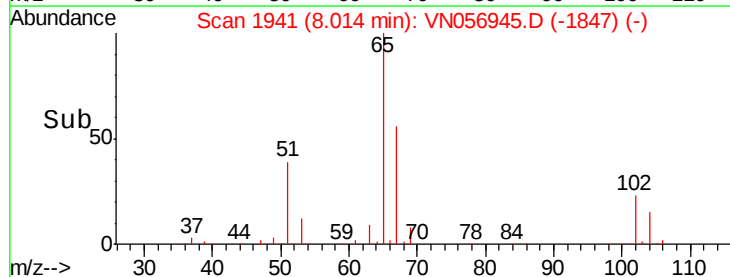
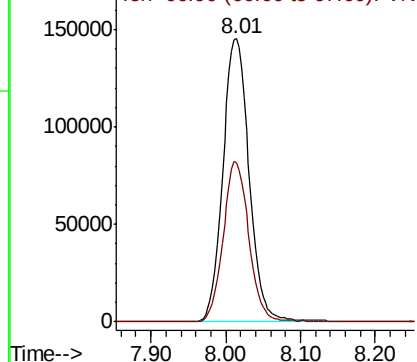
Ion Ratio Lower Upper

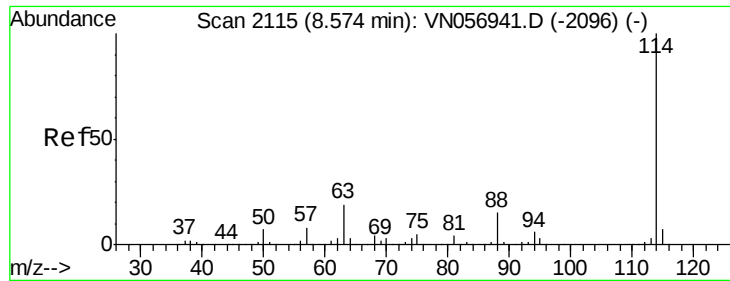
65 100

67 55.2 0.0 112.0



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

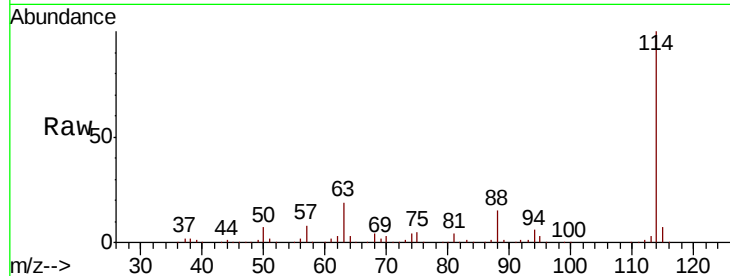




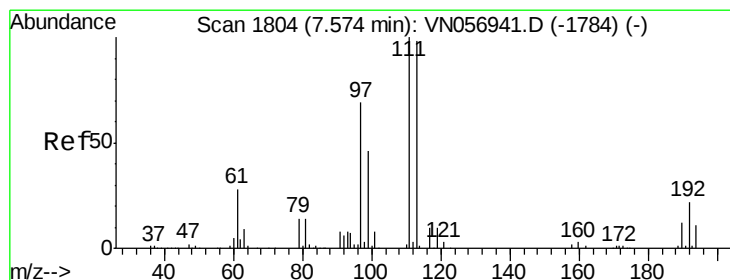
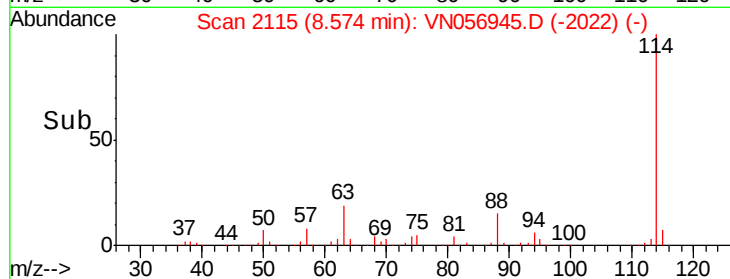
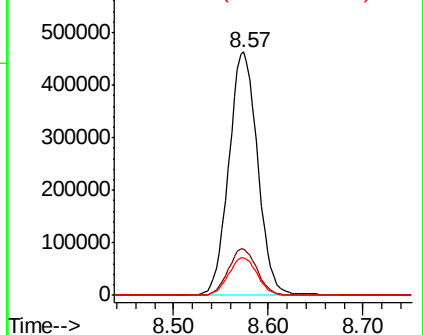
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN056945.D
 Acq: 26 Jul 2019 16:35

Instrument :
 MSVOA_N
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 VN0727WBL01

Tot Ion:114 Resp: 980584
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 38.0
 88 15.4 0.0 30.0

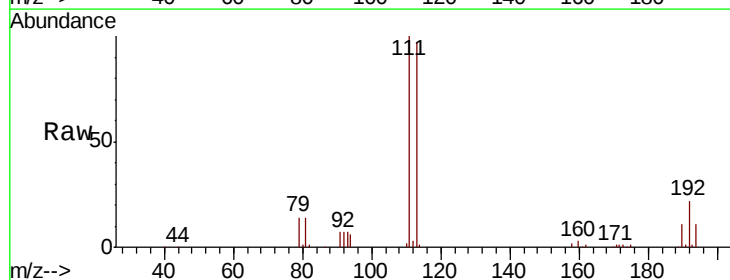


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

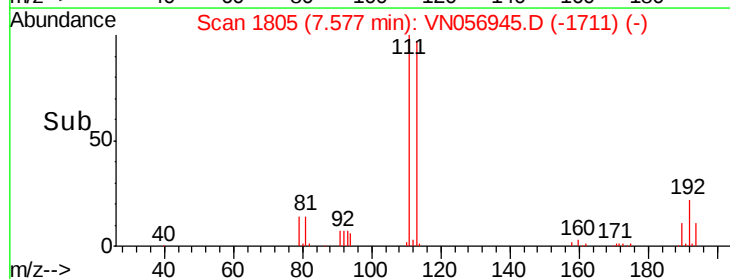
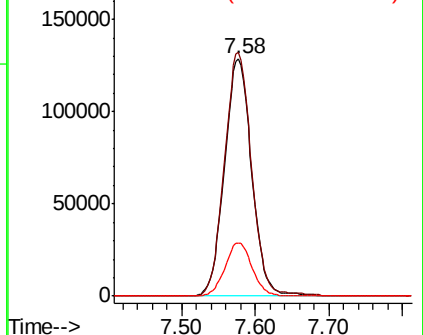


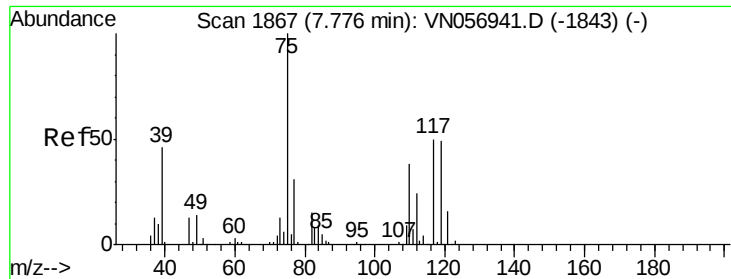
#35
 Dibromofluoromethane
 Concen: 52.525 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN056945.D
 Acq: 26 Jul 2019 16:35

Tgt Ion:113 Resp: 329722
 Ion Ratio Lower Upper
 113 100
 111 102.0 82.0 123.0
 192 22.5 18.4 27.6



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

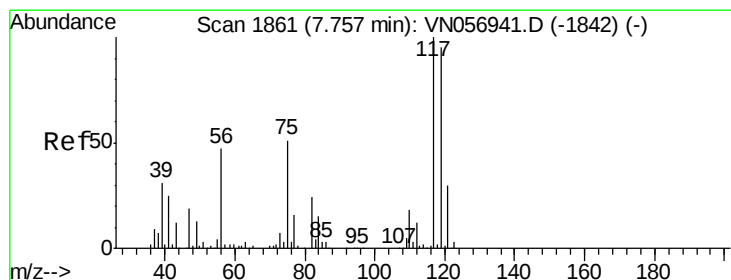
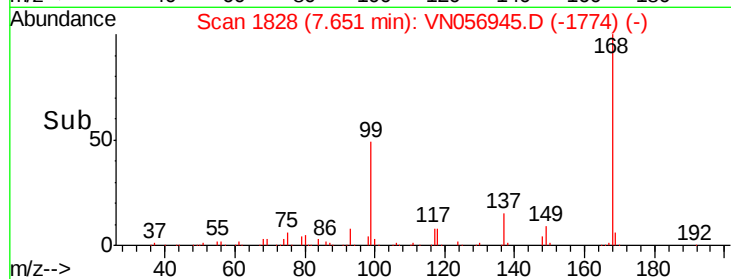
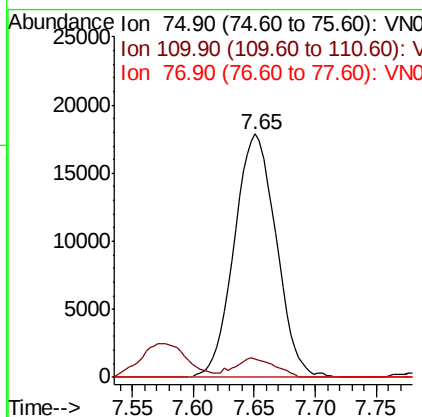
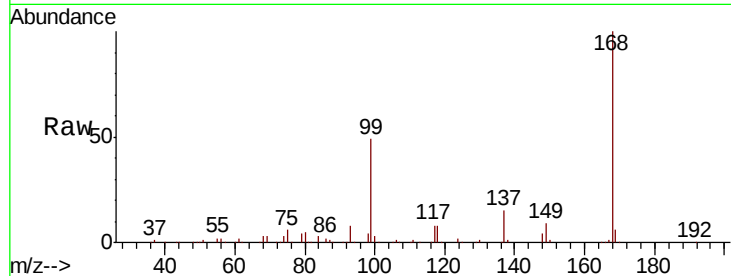




#36
 1,1-Dichloropropene
 Concen: 4.937 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN056945.D
 Acq: 26 Jul 2019 16:35

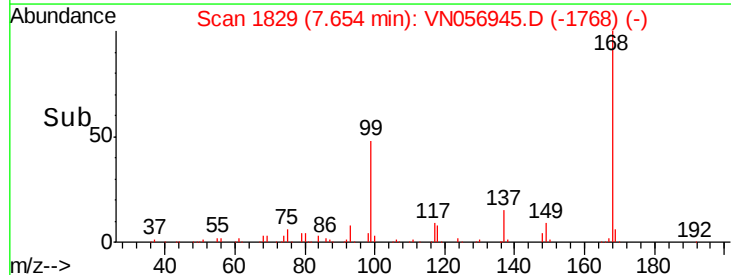
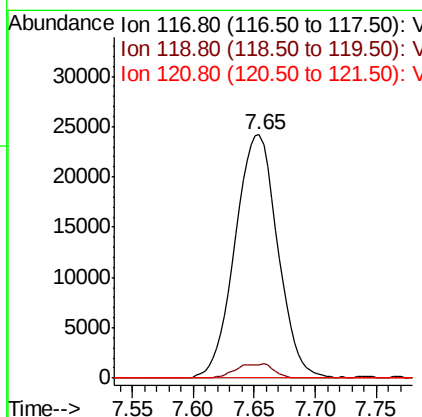
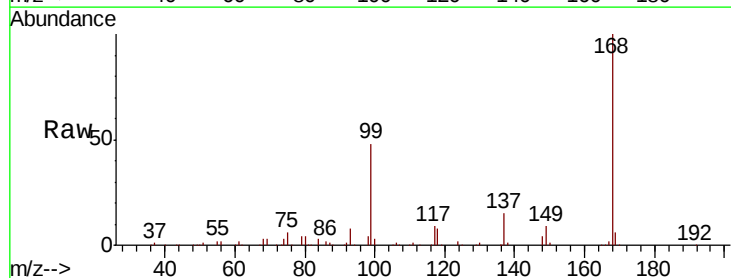
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0727WBL01

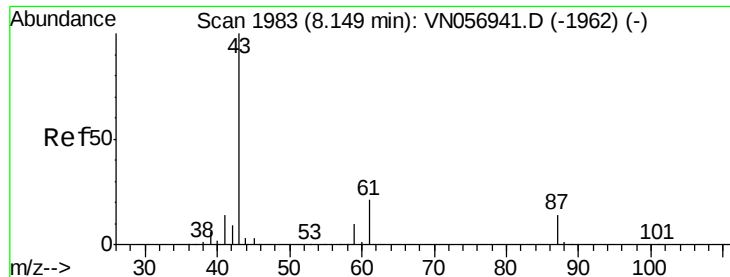
Tot Ion	75	Resp	42598
Ion Ratio	Lower	Upper	
75	100		
110	7.7	18.6	55.8#
77	0.0	25.2	37.8#



#38
 Carbon Tetrachloride
 Concen: 7.172 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.10 min
 Lab File: VN056945.D
 Acq: 26 Jul 2019 16:35

Tgt Ion	117	Resp	58536
Ion Ratio	Lower	Upper	
117	100		
119	5.6	75.3	112.9#
121	0.0	24.2	36.4#





#43

Isopropyl Acetate

Concen: 0.292 ug/l

RT: 8.29 min Scan# 2026

Delta R.T. 0.14 min

Lab File: VN056945.D

Acq: 26 Jul 2019 16:35

Instrument :

MSVOA_N

ClientSampleId :

VN0727WBL01

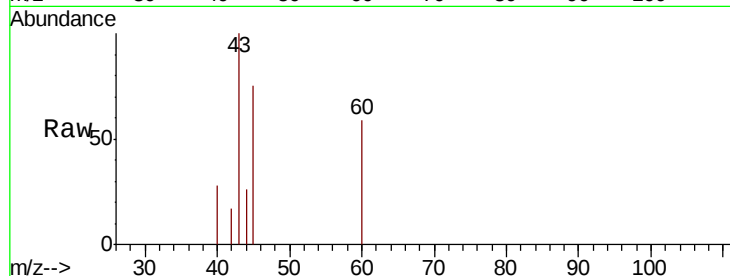
Tot Ion: 43 Resp: 3331

Ion Ratio Lower Upper

43 100

61 0.0 23.0 34.6#

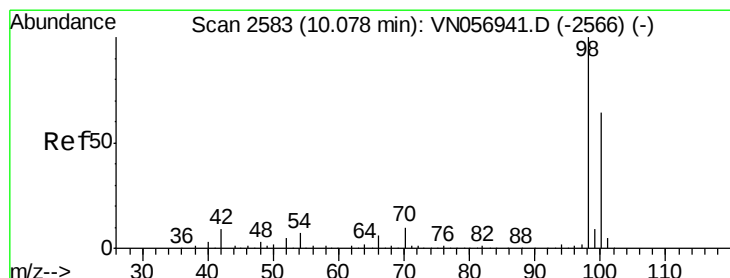
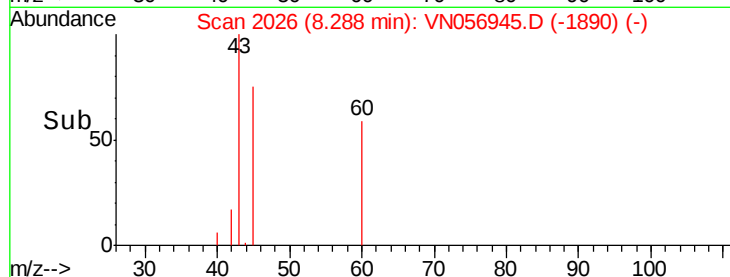
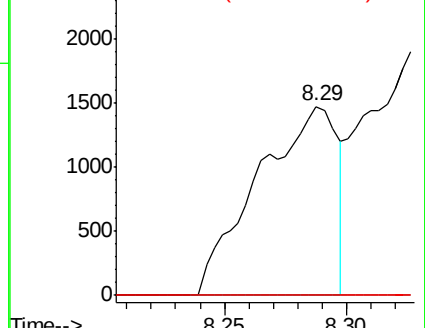
87 0.0 11.7 17.5#



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



#50

Toluene-d8

Concen: 51.885 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN056945.D

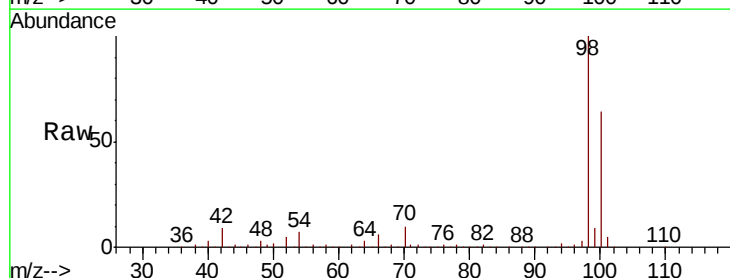
Acq: 26 Jul 2019 16:35

Tgt Ion: 98 Resp: 1242061

Ion Ratio Lower Upper

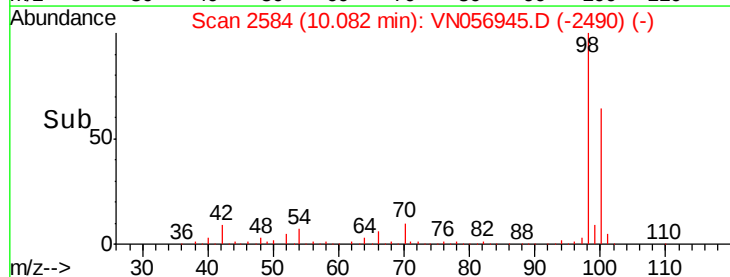
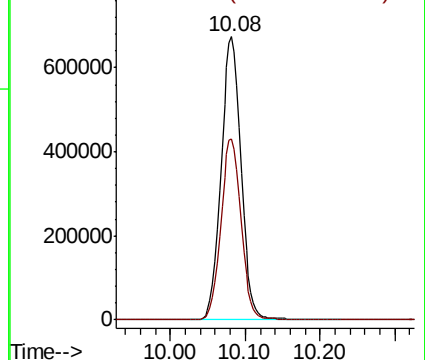
98 100

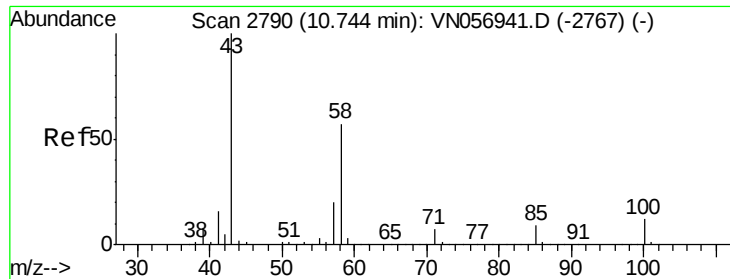
100 64.3 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#59

2-Hexanone

Concen: 2.886 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.01 min

Lab File: VN056945.D

Acq: 26 Jul 2019 16:35

Instrument :

MSVOA_N

ClientSampleId :

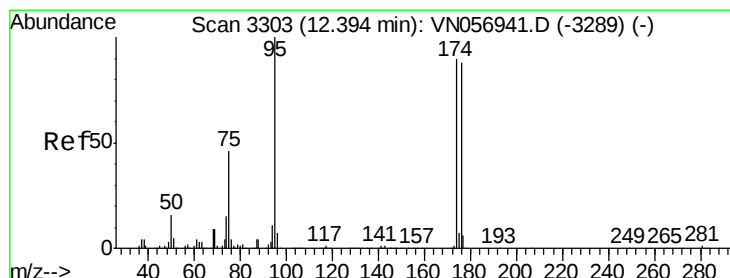
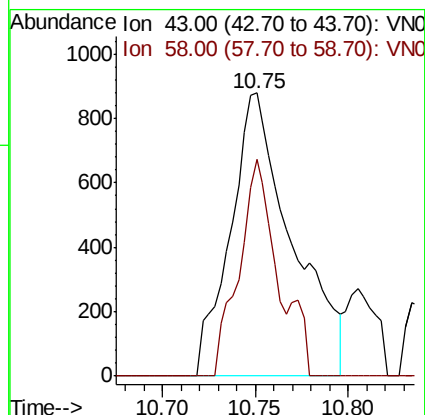
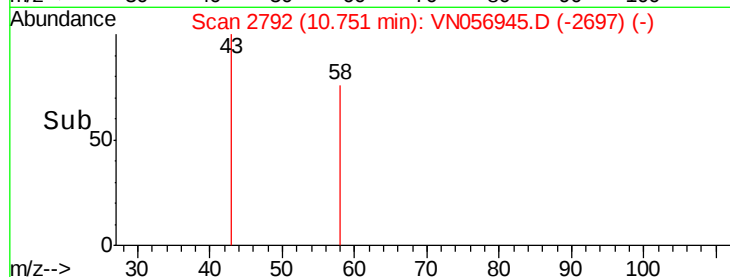
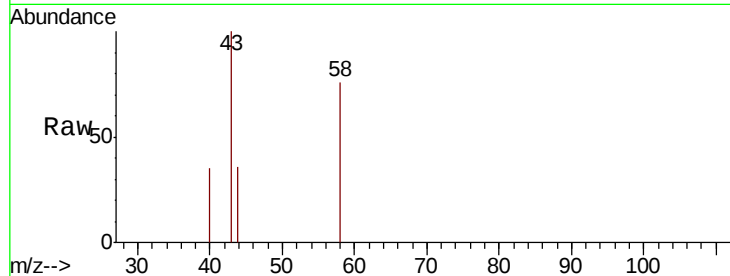
VN0727WBL01

Tot Ion: 43 Resp: 2040

Ion Ratio Lower Upper

43 100

58 42.2 28.5 85.5



#62

4-Bromofluorobenzene

Concen: 43.225 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN056945.D

Acq: 26 Jul 2019 16:35

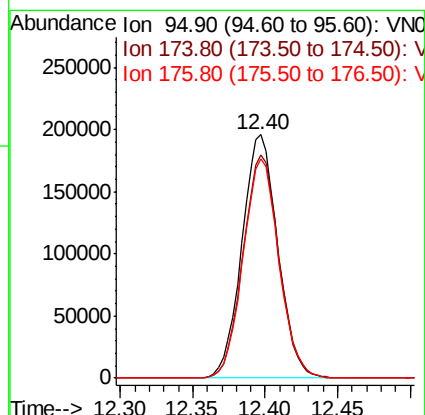
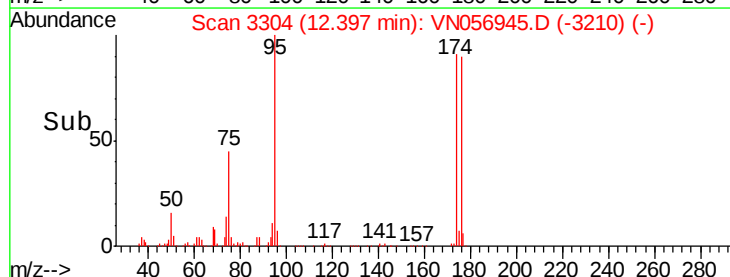
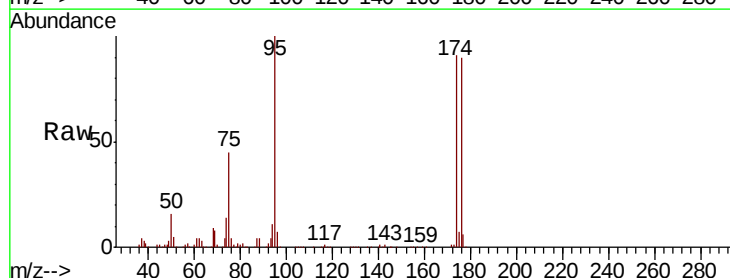
Tgt Ion: 95 Resp: 336859

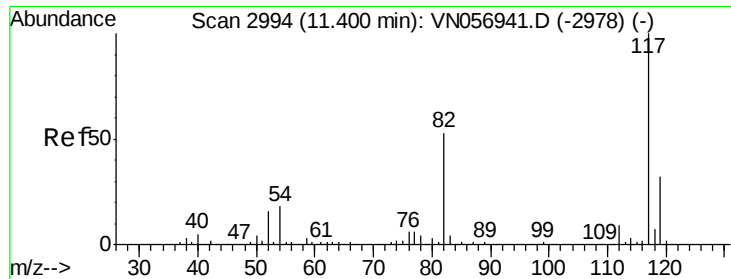
Ion Ratio Lower Upper

95 100

174 92.4 0.0 182.2

176 89.9 0.0 179.4

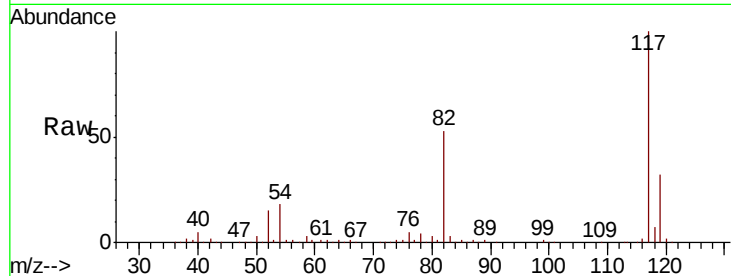




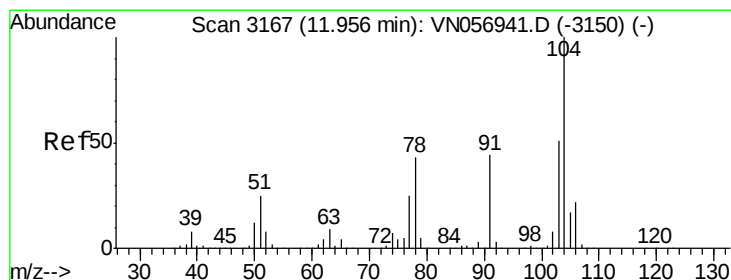
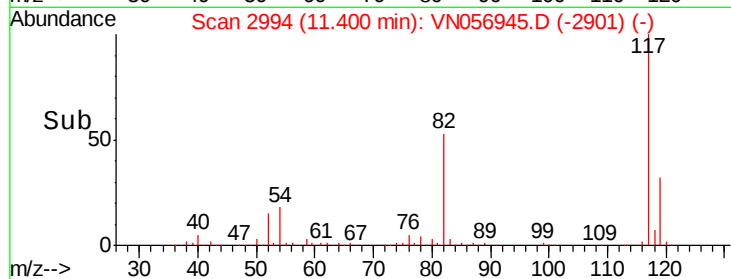
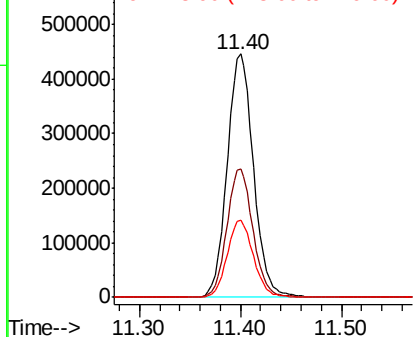
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN056945.D
Acq: 26 Jul 2019 16:35

Instrument :
MSVOA_N
ClientSampleId :
VN0727WBL01

Tot Ion:117 Resp: 810903
Ion Ratio Lower Upper
117 100
82 52.7 42.2 63.4
119 31.6 25.8 38.6

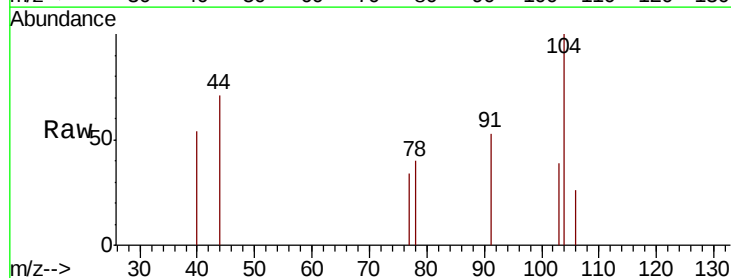


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

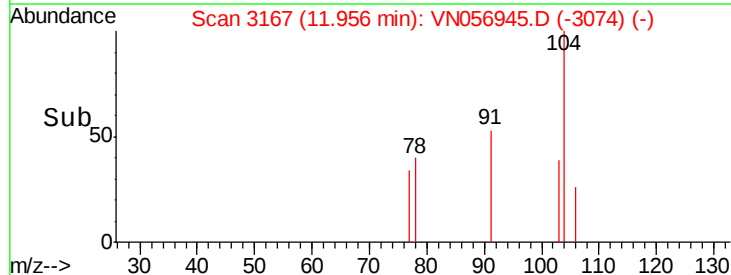
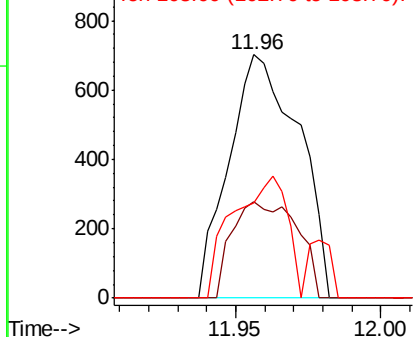


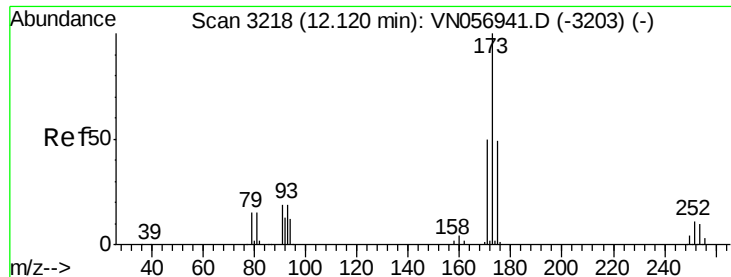
#70
Styrene
Concen: 1.929 ug/l
RT: 11.96 min Scan# 3167
Delta R.T. 0.00 min
Lab File: VN056945.D
Acq: 26 Jul 2019 16:35

Tgt Ion:104 Resp: 1172
Ion Ratio Lower Upper
104 100
78 36.9 38.1 57.1#
103 39.3 44.3 66.5#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 0.561 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.28 min

Lab File: VN056945.D

Acq: 26 Jul 2019 16:35

Instrument :

MSVOA_N

ClientSampleId :

VN0727WBL01

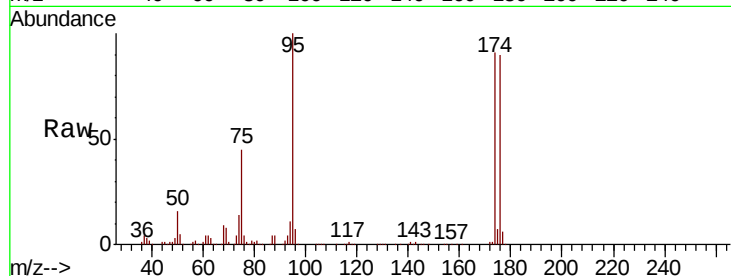
Tot Ion:173 Resp: 2436

Ion Ratio Lower Upper

173 100

175 768.6 24.1 72.4#

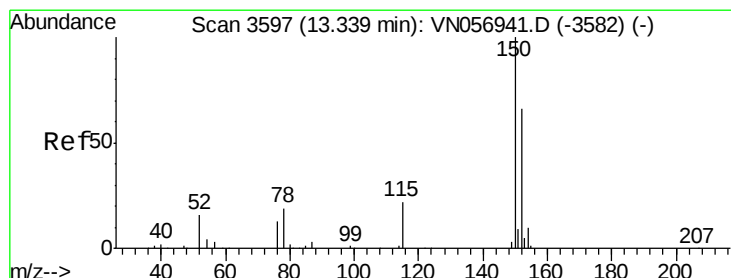
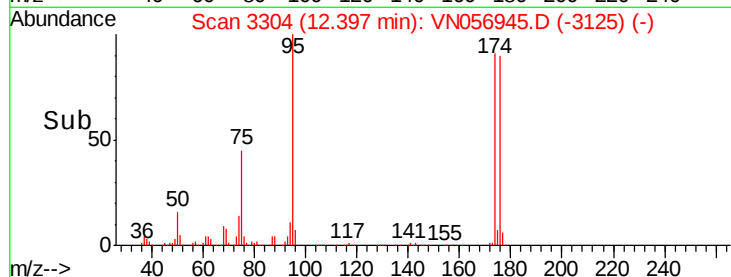
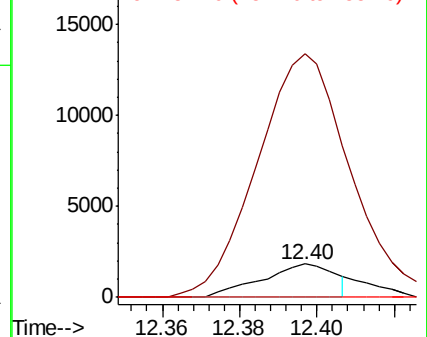
254 0.0 0.1 0.1#



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# 3597

Delta R.T. 0.00 min

Lab File: VN056945.D

Acq: 26 Jul 2019 16:35

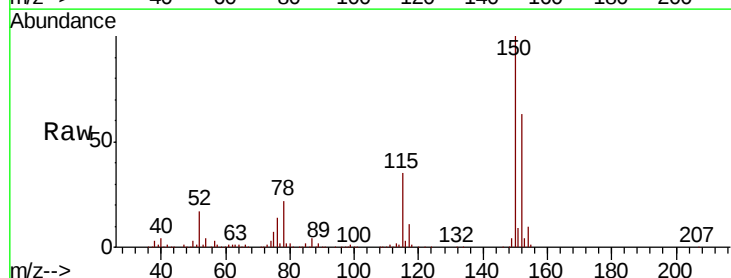
Tgt Ion:152 Resp: 239681

Ion Ratio Lower Upper

152 100

115 55.4 28.2 84.6

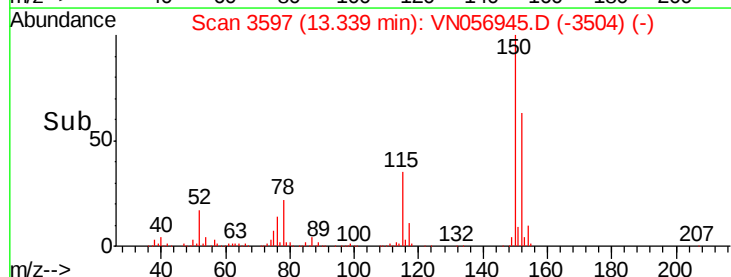
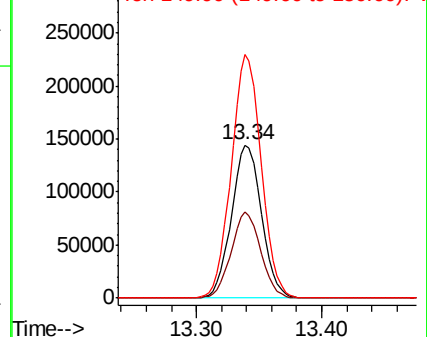
150 158.3 0.0 349.4

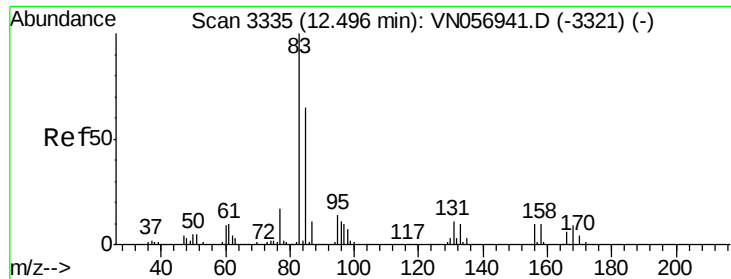


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

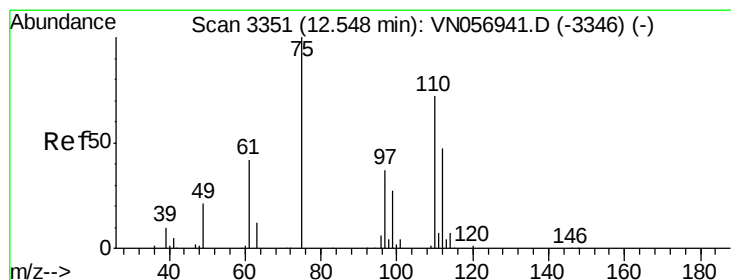
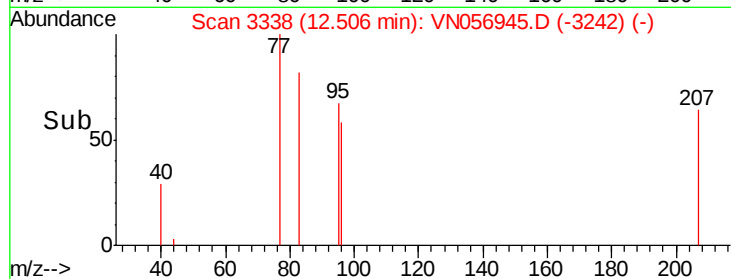
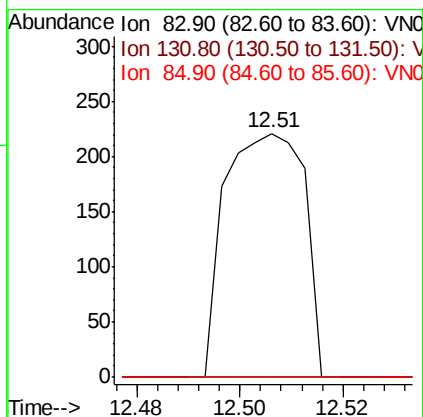
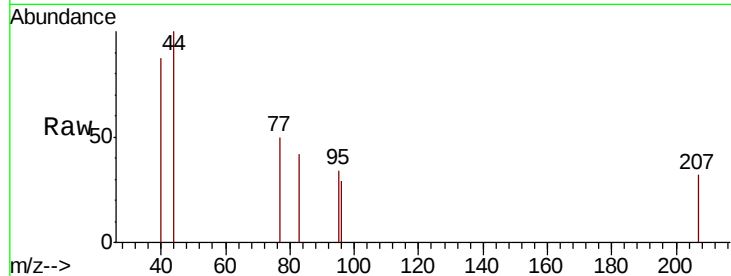




#75
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.51 min Scan# 3338
 Delta R.T. 0.01 min
 Lab File: VN056945.D
 Acq: 26 Jul 2019 16:35

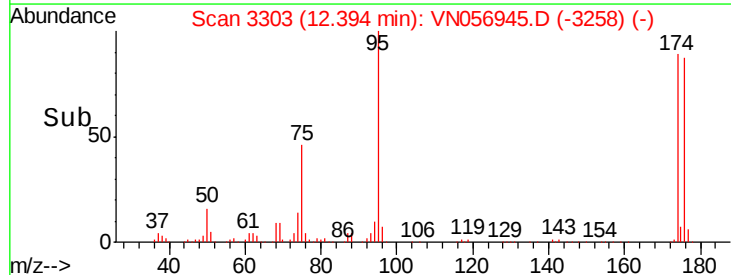
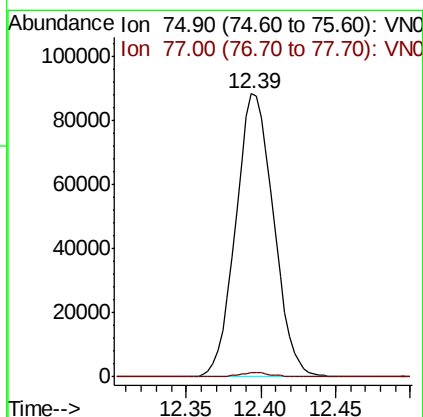
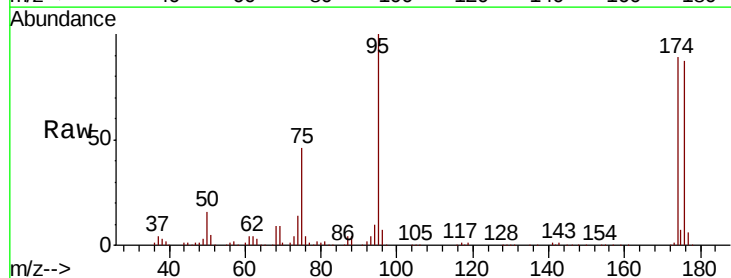
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0727WBL01

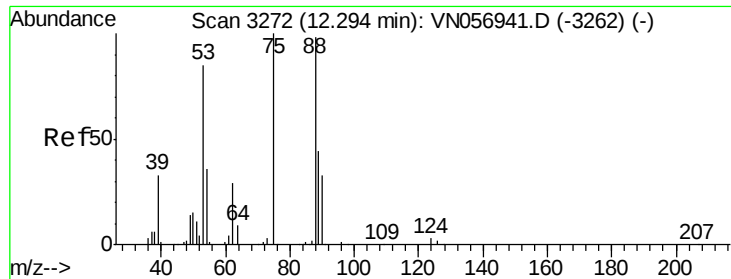
Tot Ion: 83 Resp: 234
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.3 16.1#
 85 0.0 32.5 97.4#



#76
 1,2,3-Trichloropropane
 Concen: 32.038 ug/l
 RT: 12.39 min Scan# 3303
 Delta R.T. -0.15 min
 Lab File: VN056945.D
 Acq: 26 Jul 2019 16:35

Tgt Ion: 75 Resp: 155944
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 102.936 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN056945.D

Acq: 26 Jul 2019 16:35

Instrument :

MSVOA_N

ClientSampleId :

VN0727WBL01

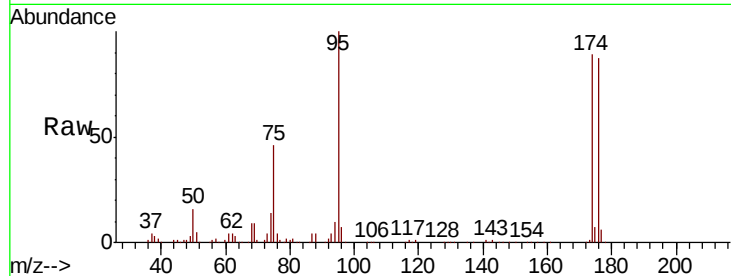
Tot Ion: 75 Resp: 155944

Ion Ratio Lower Upper

75 100

53 0.0 69.3 103.9#

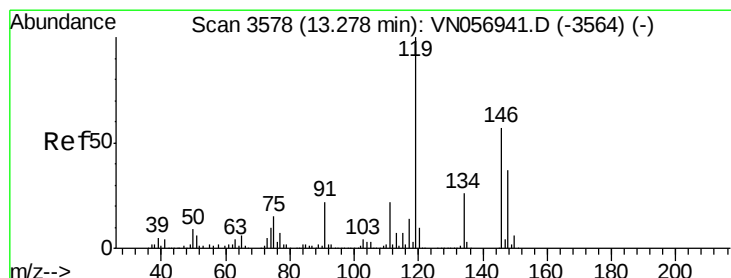
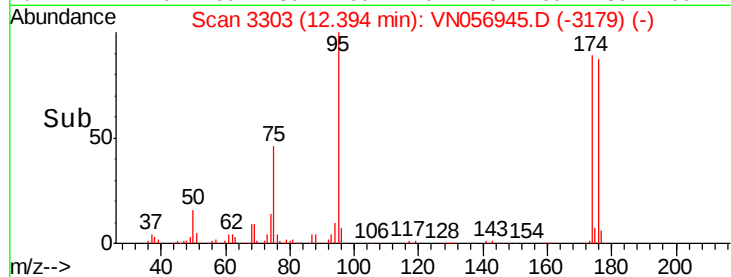
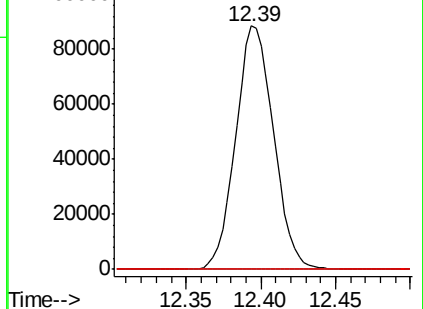
89 0.0 35.8 53.6#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#87

1,3-Dichlorobenzene

Concen: 0.237 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.01 min

Lab File: VN056945.D

Acq: 26 Jul 2019 16:35

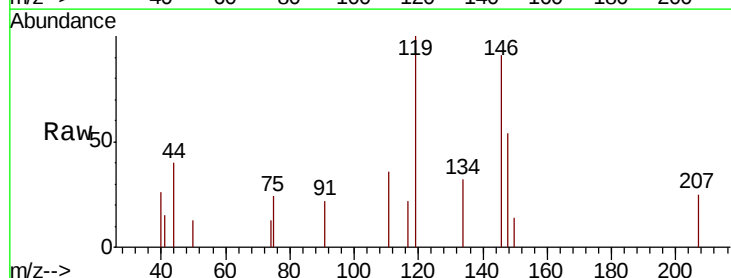
Tgt Ion: 146 Resp: 1950

Ion Ratio Lower Upper

146 100

111 39.5 18.6 55.8

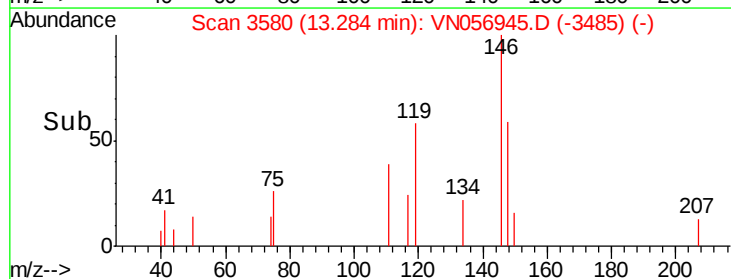
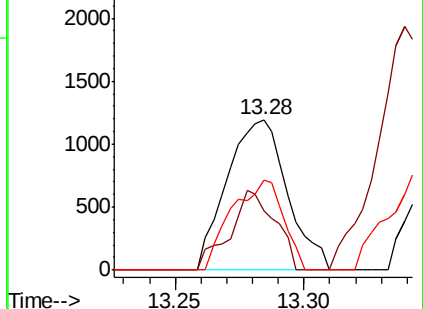
148 51.1 32.2 96.6

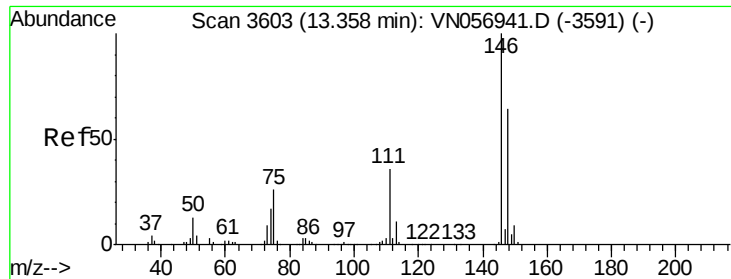


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

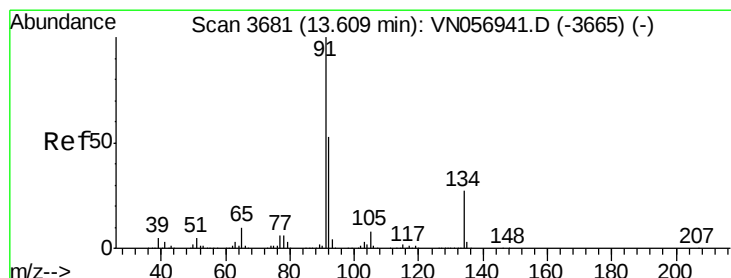
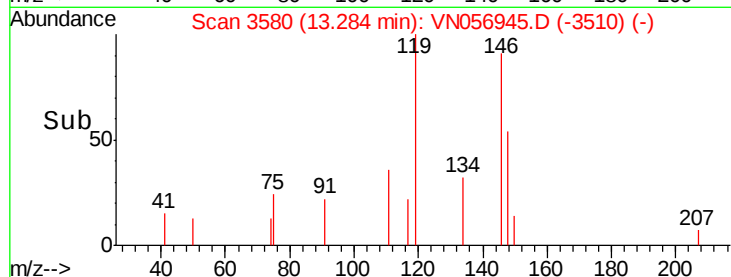
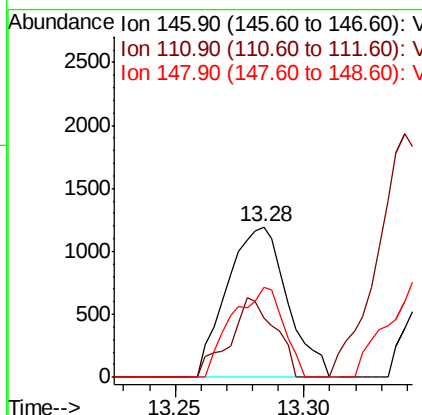
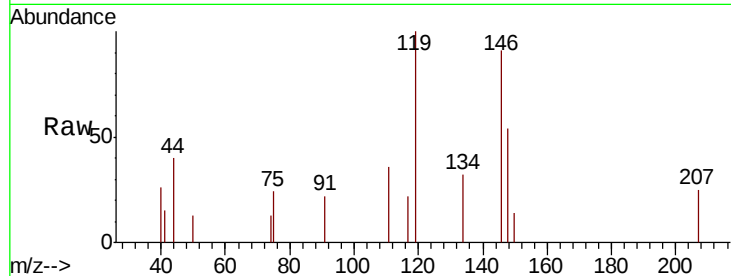




#88
 1,4-Dichlorobenzene
 Concen: 0.246 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.07 min
 Lab File: VN056945.D
 Acq: 26 Jul 2019 16:35

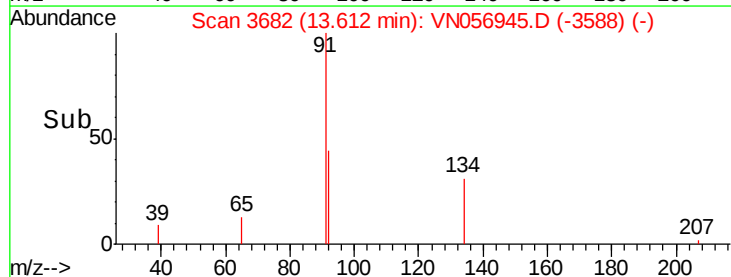
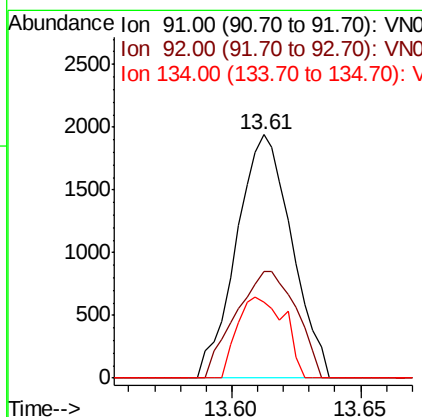
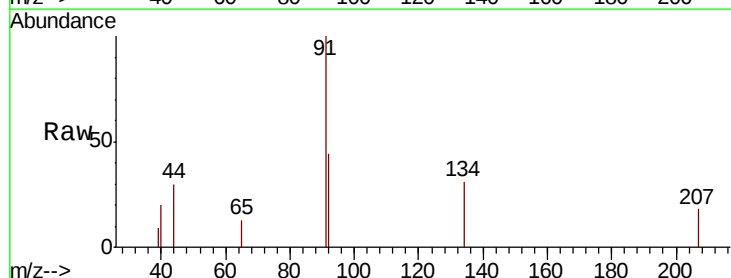
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0727WBL01

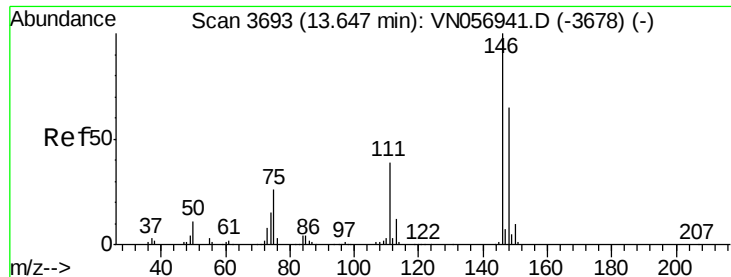
Tot Ion:146 Resp: 1950
 Ion Ratio Lower Upper
 146 100
 111 39.5 18.4 55.2
 148 51.1 32.3 96.9



#89
 n-Butylbenzene
 Concen: 0.219 ug/l
 RT: 13.61 min Scan# 3682
 Delta R.T. 0.00 min
 Lab File: VN056945.D
 Acq: 26 Jul 2019 16:35

Tgt Ion: 91 Resp: 2905
 Ion Ratio Lower Upper
 91 100
 92 47.8 26.2 78.5
 134 28.5 13.5 40.4

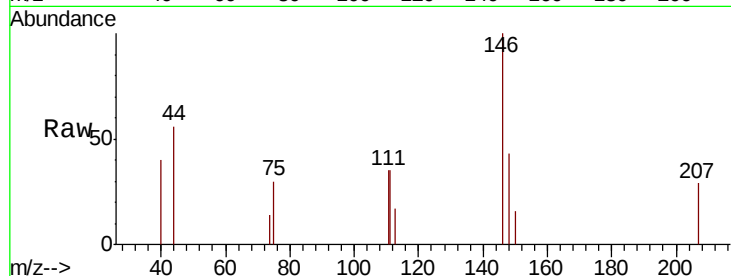




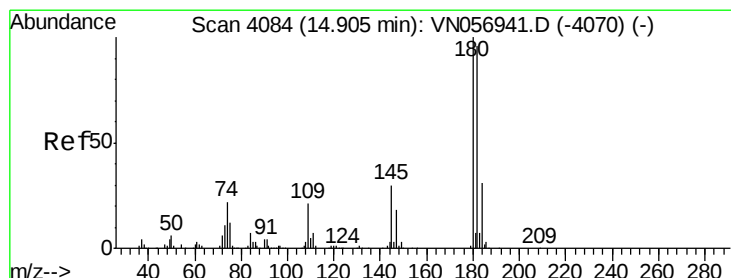
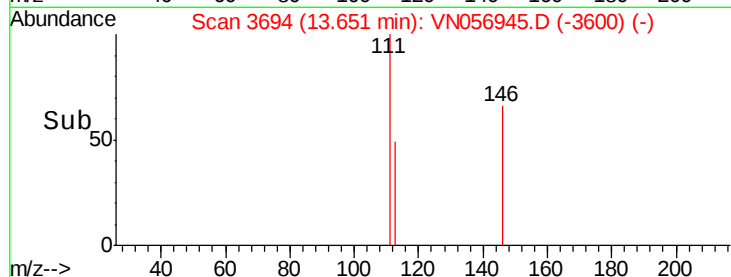
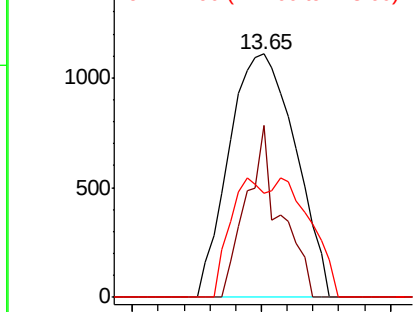
#91
 1,2-Dichlorobenzene
 Concen: 0.246 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN056945.D
 Acq: 26 Jul 2019 16:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0727WBL01

Tot Ion:146 Resp: 1988
 Ion Ratio Lower Upper
 146 100
 111 36.5 19.4 58.4
 148 25.1 32.2 96.6#

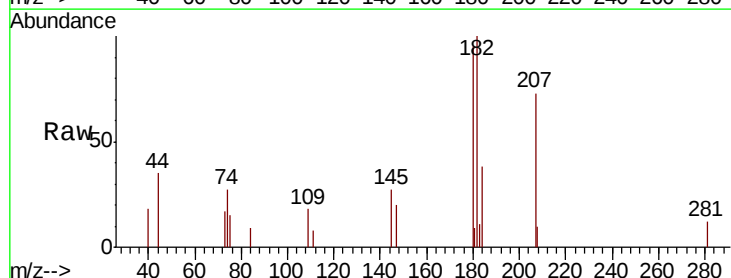


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

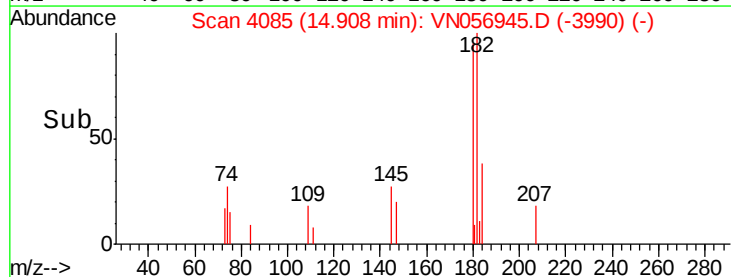
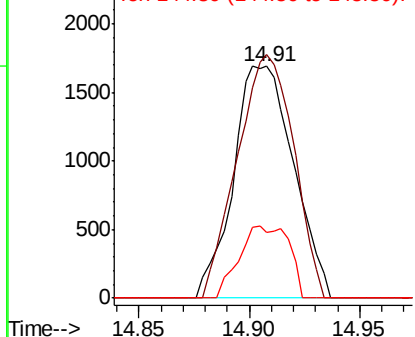


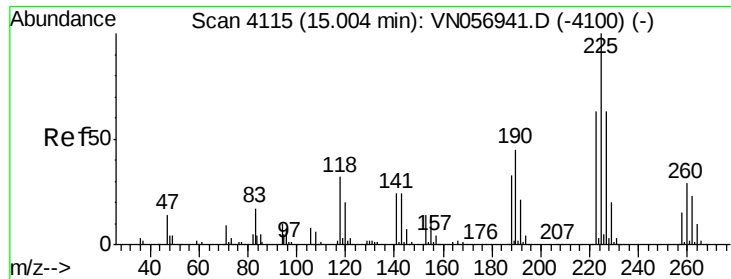
#93
 1,2,4-Trichlorobenzene
 Concen: 3.435 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN056945.D
 Acq: 26 Jul 2019 16:35

Tgt Ion:180 Resp: 3194
 Ion Ratio Lower Upper
 180 100
 182 98.8 47.6 142.8
 145 25.6 14.2 42.8



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4117

Delta R.T. 0.01 min

Lab File: VN056945.D

Acq: 26 Jul 2019 16:35

Instrument :

MSVOA_N

ClientSampleId :

VN0727WBL01

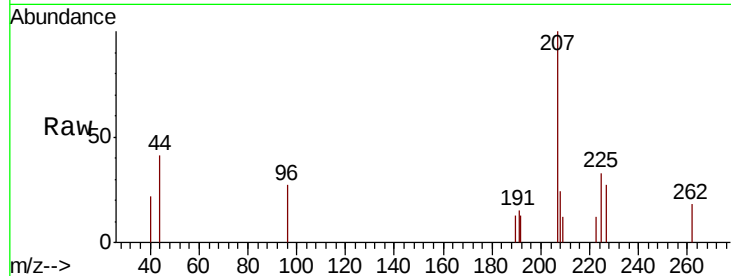
Tot Ion:225 Resp: 726

Ion Ratio Lower Upper

225 100

223 35.1 30.8 92.4

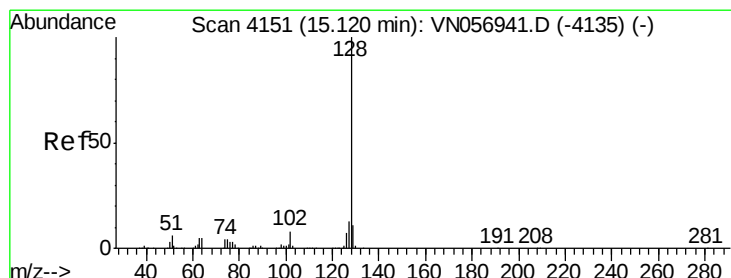
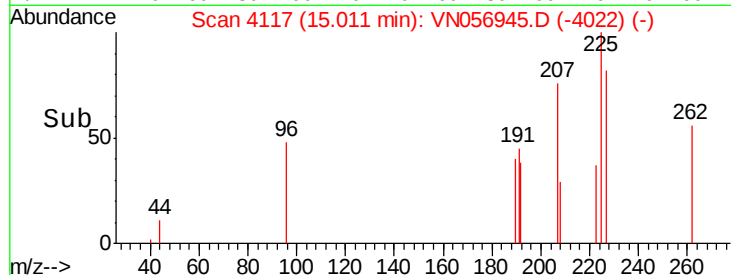
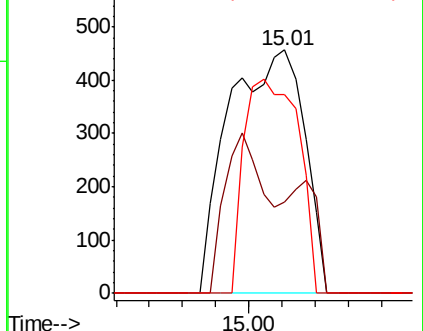
227 63.2 31.1 93.5



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: 4.392 ug/l

RT: 15.12 min Scan# 4152

Delta R.T. 0.00 min

Lab File: VN056945.D

Acq: 26 Jul 2019 16:35

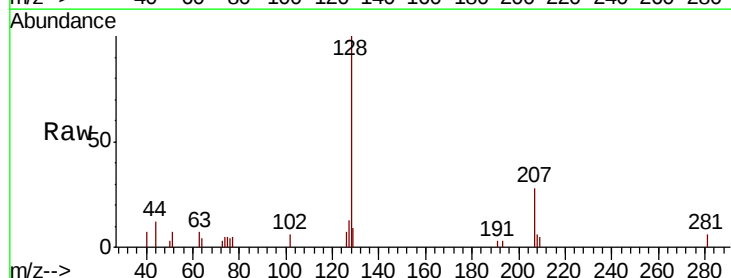
Tgt Ion:128 Resp: 8824

Ion Ratio Lower Upper

128 100

127 11.9 10.0 15.0

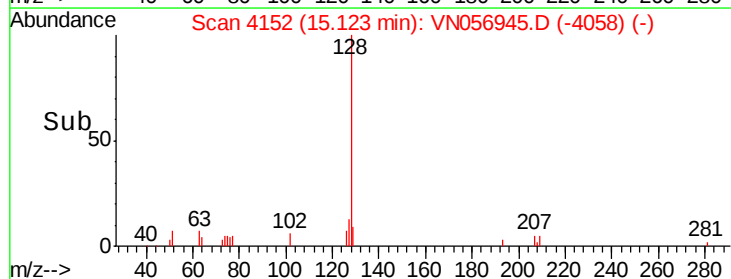
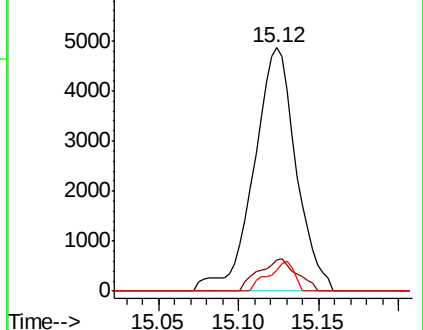
129 7.5 8.7 13.1#

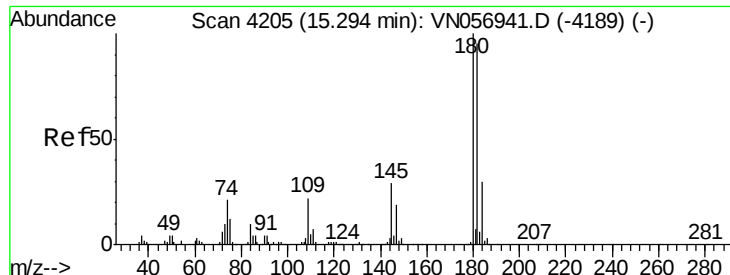


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 3.096 ug/l
 RT: 15.29 min Scan# 4205
 Delta R.T. 0.00 min
 Lab File: VN056945.D
 Acq: 26 Jul 2019 16:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0727WBL01

Tot Ion	Ratio	Lower	Upper
180	100		
182	89.4	48.0	144.2
145	24.5	15.0	45.0

