

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101620\
 Data File : VN064167.D
 Acq On : 16 Oct 2020 16:21
 Operator : JC/MD
 Sample : L4227-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BU-01-101420

Quant Time: Oct 17 01:29:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101420W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 15 01:16:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	309427	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	598265	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	619563	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	226614	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	272582	61.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	123.70%	
35) Dibromofluoromethane	7.55	113	212591	51.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.68%	
50) Toluene-d8	10.06	98	784945	50.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.48%	
62) 4-Bromofluorobenzene	12.38	95	264157	49.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.38%	

Target Compounds

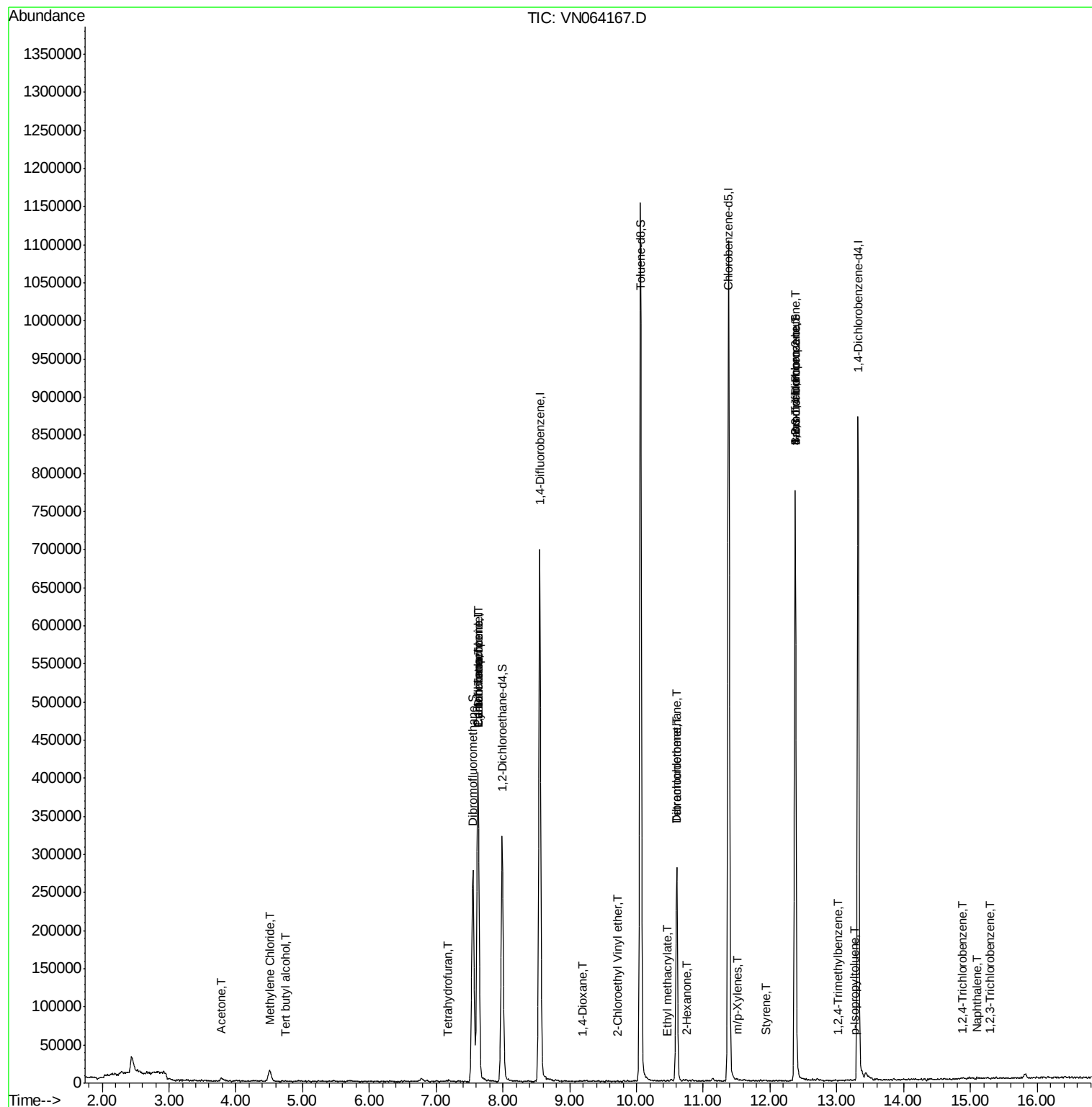
						Qvalue
11) Tert butyl alcohol	4.74	59	158	0.324	ug/l #	79
16) Acetone	3.78	43	8819	6.747	ug/l	94
20) Methylene Chloride	4.51	84	10469	2.588	ug/l #	90
29) Tetrahydrofuran	7.17	42	565	0.481	ug/l #	44
31) Cyclohexane	7.63	56	8565	1.758	ug/l #	46
36) 1,1-Dichloropropene	7.63	75	27297	4.734	ug/l #	49
38) Carbon Tetrachloride	7.63	117	31748	5.120	ug/l #	18
49) 1,4-Dioxane	9.19	88	30	0.504	ug/l #	25
56) Ethyl methacrylate	10.46	69	78	2.310	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.72	63	65	12.238	ug/l #	48
59) 2-Hexanone	10.75	43	312	6.916	ug/l #	24
60) Dibromochloromethane	10.60	129	55291	11.073	ug/l #	11
64) Tetrachloroethene	10.60	164	62532	13.387	ug/l	98
68) m/p-Xylenes	11.50	106	29	2.195	ug/l #	1
70) Styrene	11.94	104	61	2.041	ug/l #	1
71) Bromoform	12.38	173	2848	2.894	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	139492	26.238	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	139492	80.160	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.02	105	428	0.215	ug/l	69
86) p-Isopropyltoluene	13.26	119	229	0.679	ug/l #	50
93) 1,2,4-Trichlorobenzene	14.88	180	60	3.196	ug/l #	82
95) Naphthalene	15.10	128	370	3.828	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.30	180	66	2.827	ug/l #	53

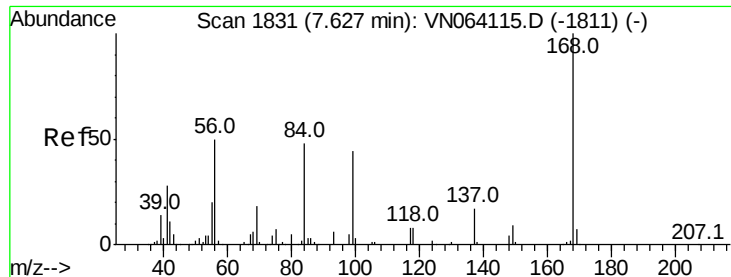
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VN064167.D
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Quant Title : SW846 8260
QLast Update : Thu Oct 15 01:16:44 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064167.D

Acq: 16 Oct 2020 16:21

Instrument :

MSVOA_N

ClientSampleId :

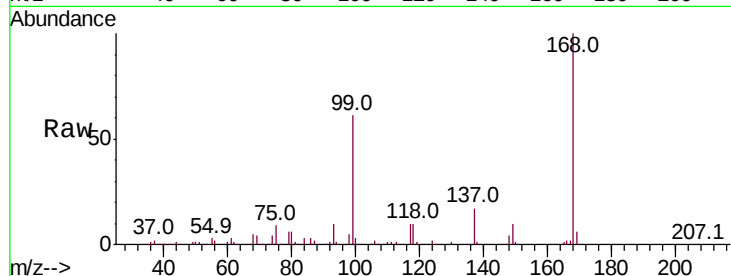
BU-01-101420

Tot Ion:168 Resp: 309427

Ion Ratio Lower Upper

168 100

99 61.2 43.6 65.4



Abundance Ion 167.90 (167.60 to 168.60): V

150000 Ion 98.90 (98.60 to 99.60): VNO

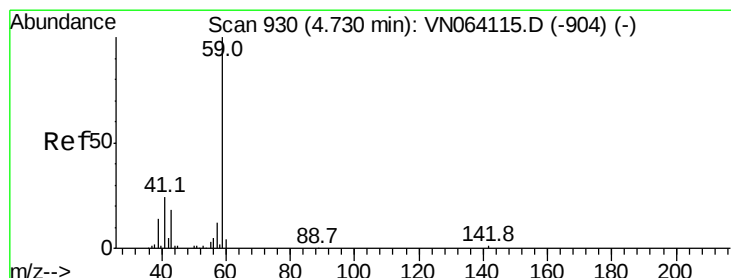
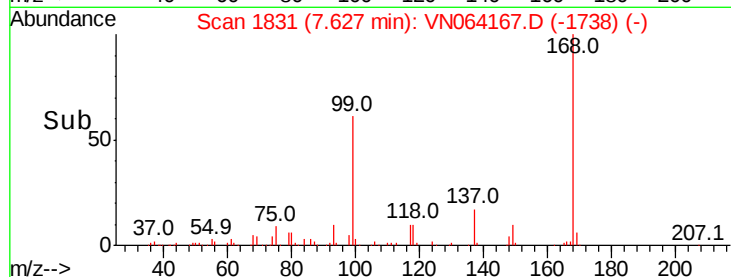
7.63

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.324 ug/l

RT: 4.74 min Scan# 932

Delta R.T. 0.01 min

Lab File: VN064167.D

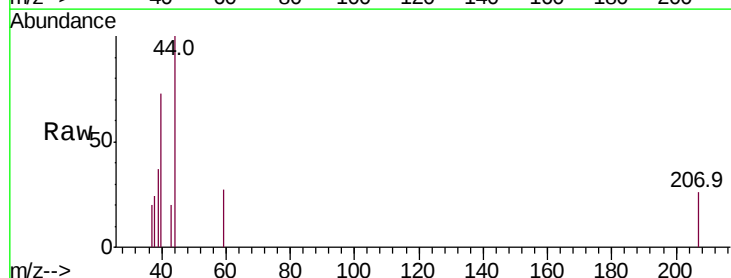
Acq: 16 Oct 2020 16:21

Tgt Ion: 59 Resp: 158

Ion Ratio Lower Upper

59 100

57 19.0 8.9 13.3#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

250

200

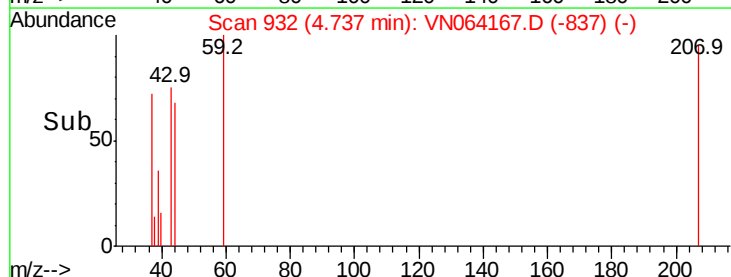
150

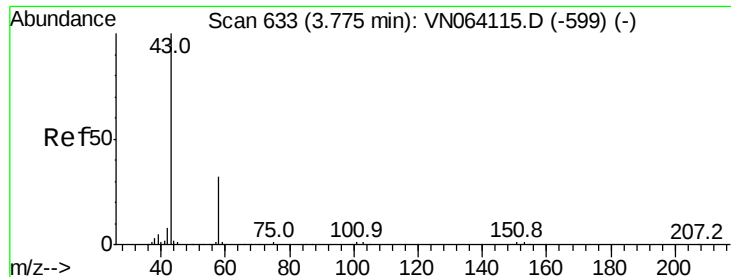
100

50

0

Time-->





#16

Acetone

Concen: 6.747 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN064167.D

Acq: 16 Oct 2020 16:21

Instrument :

MSVOA_N

ClientSampleId :

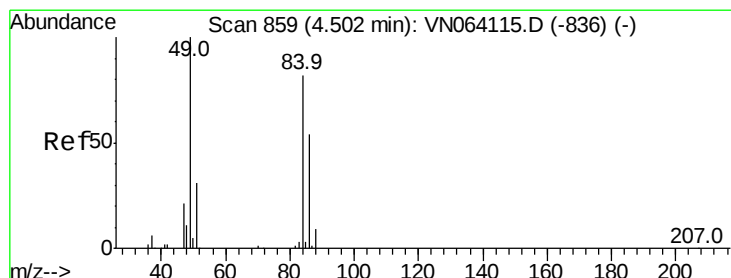
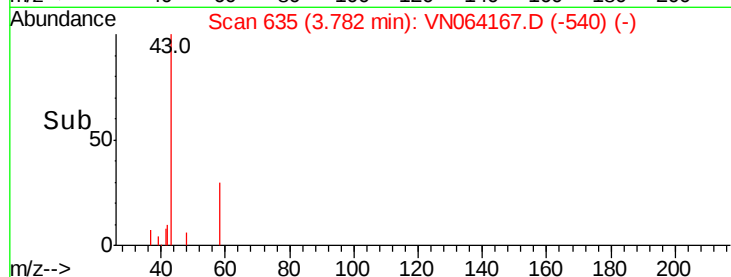
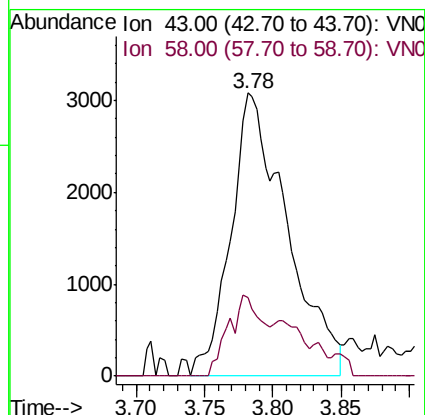
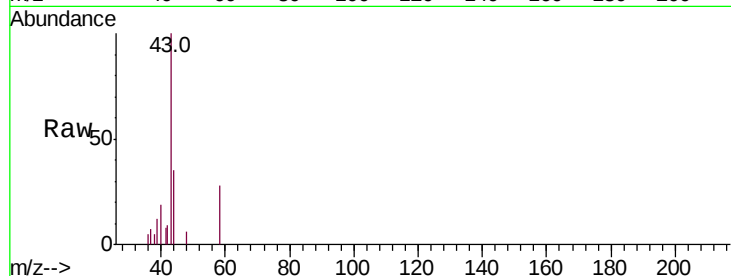
BU-01-101420

Tot Ion: 43 Resp: 8819

Ion Ratio Lower Upper

43 100

58 27.9 25.2 37.8



#20

Methylene Chloride

Concen: 2.588 ug/l

RT: 4.51 min Scan# 861

Delta R.T. 0.01 min

Lab File: VN064167.D

Acq: 16 Oct 2020 16:21

Tgt Ion: 84 Resp: 10469

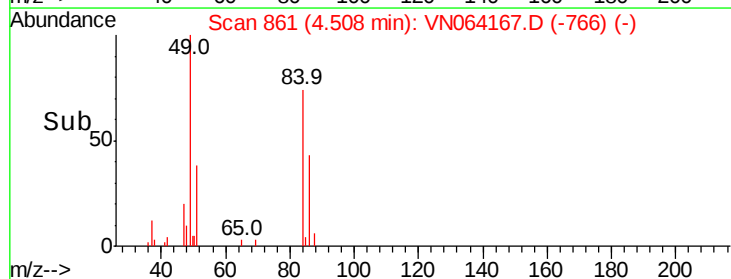
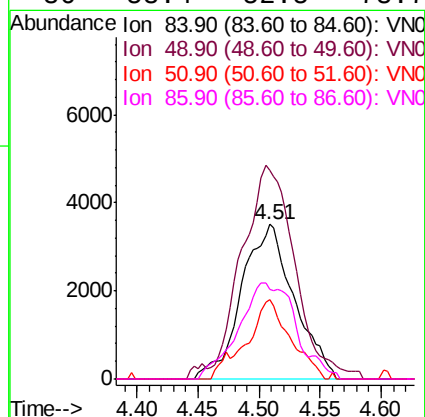
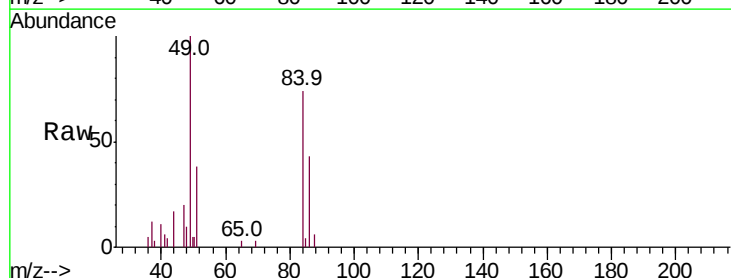
Ion Ratio Lower Upper

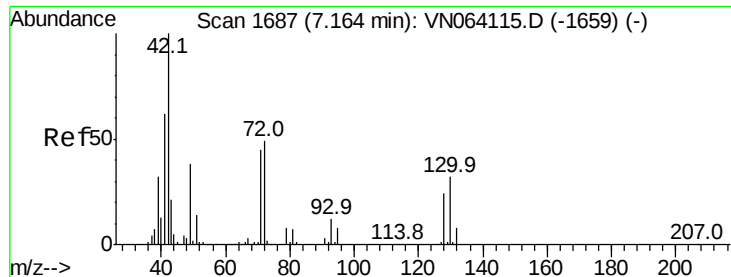
84 100

49 129.5 97.4 146.0

51 51.1 29.7 44.5#

86 58.4 52.5 78.7





#29

Tetrahydrofuran

Concen: 0.481 ug/l

RT: 7.17 min Scan# 1689

Delta R.T. 0.01 min

Lab File: VN064167.D

Acq: 16 Oct 2020 16:21

Instrument :

MSVOA_N

ClientSampleId :

BU-01-101420

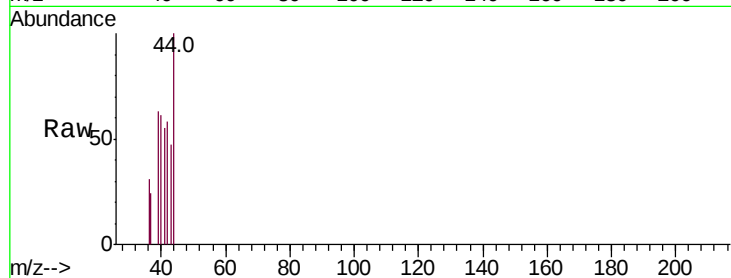
Tot Ion: 42 Resp: 565

Ion Ratio Lower Upper

42 100

72 5.3 37.8 56.6#

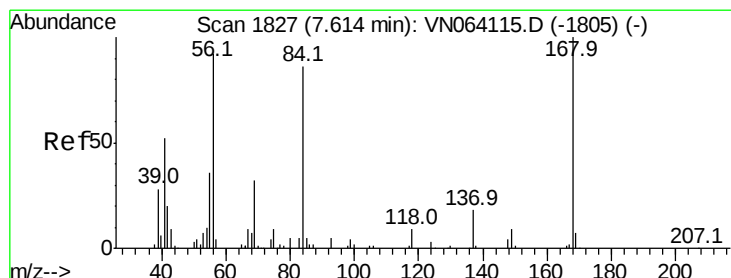
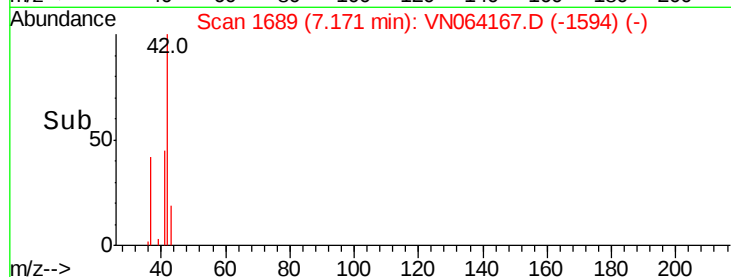
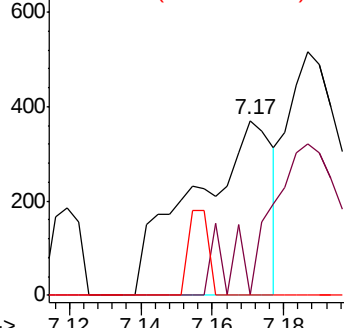
71 12.2 35.3 52.9#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.758 ug/l

RT: 7.63 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN064167.D

Acq: 16 Oct 2020 16:21

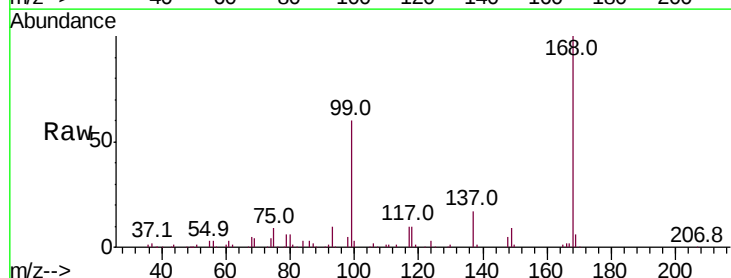
Tgt Ion: 56 Resp: 8565

Ion Ratio Lower Upper

56 100

69 140.7 27.8 41.6#

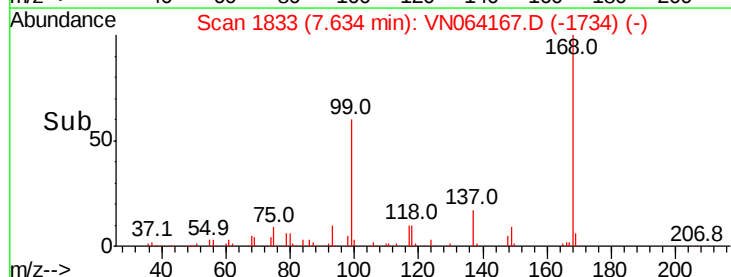
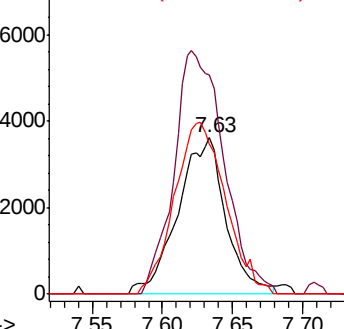
84 96.4 73.2 109.8

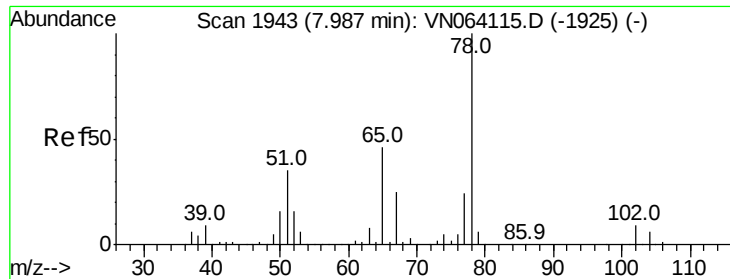


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

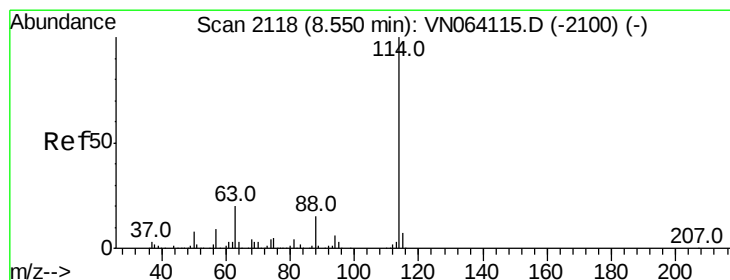
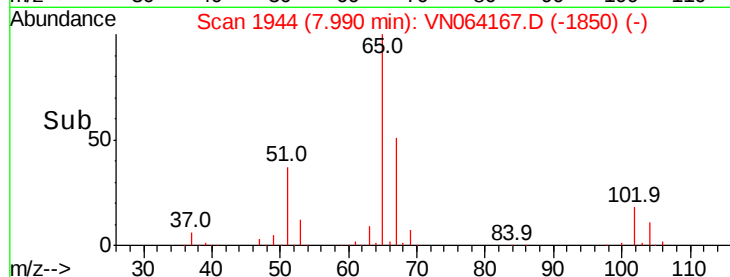
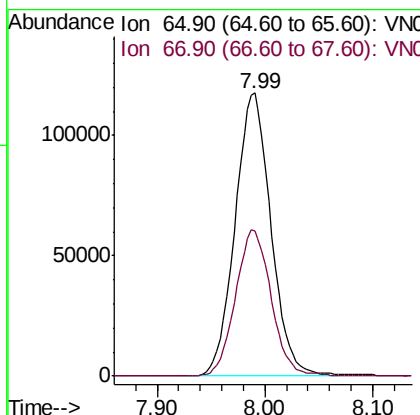
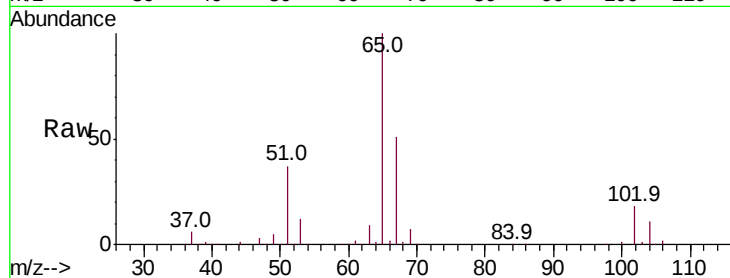




#33
 1,2-Dichloroethane-d4
 Concen: 61.854 ug/l
 RT: 7.99 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN064167.D
 Acq: 16 Oct 2020 16:21

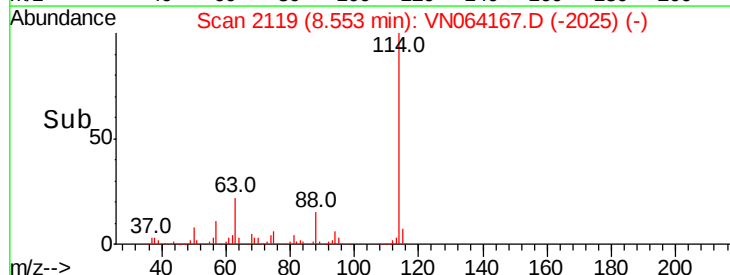
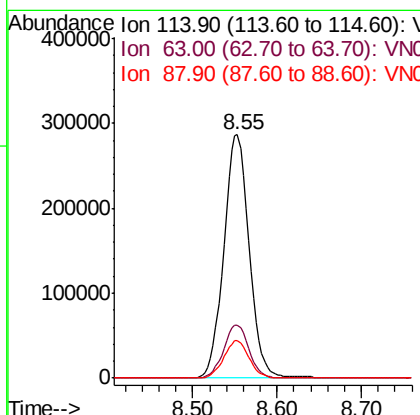
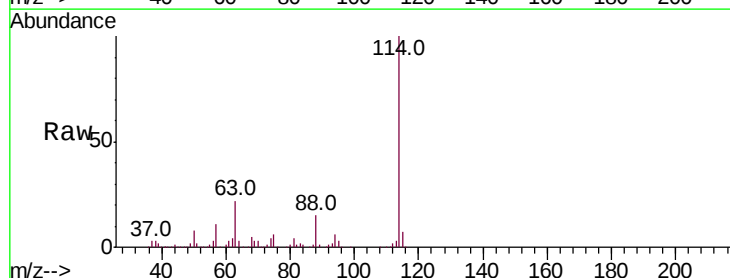
Instrument :
 MSVOA_N
 ClientSampleId :
 BU-01-101420

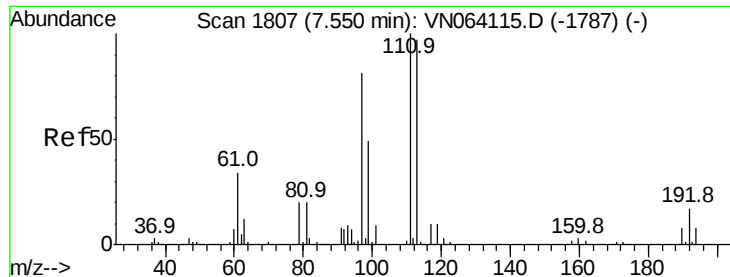
Tot Ion: 65 Resp: 272582
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN064167.D
 Acq: 16 Oct 2020 16:21

Tgt Ion: 114 Resp: 598265
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 41.0
 88 15.5 0.0 29.2

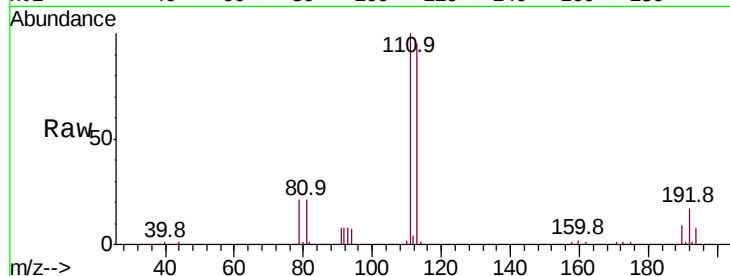




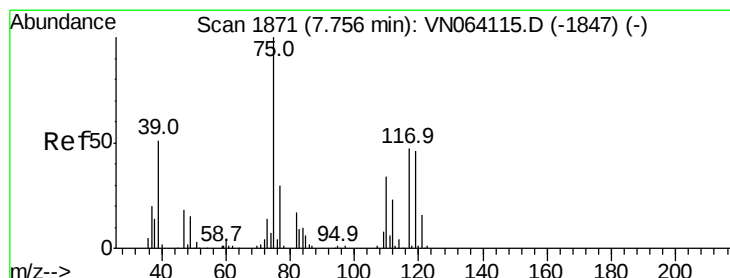
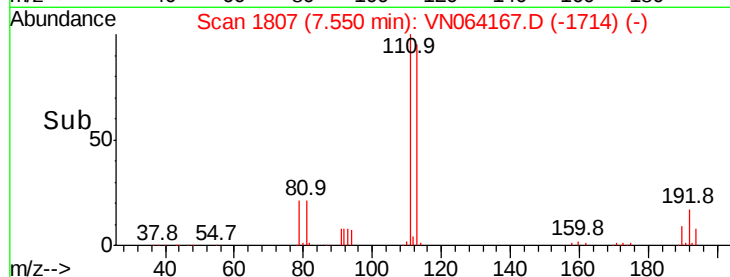
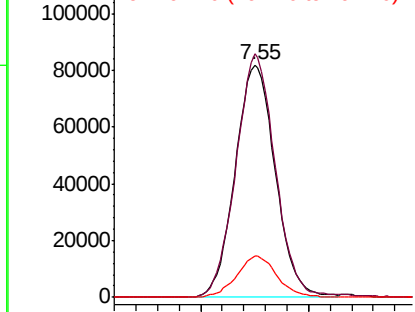
#35
Dibromofluoromethane
Concen: 51.339 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN064167.D
Acq: 16 Oct 2020 16:21

Instrument :
MSVOA_N
ClientSampleId :
BU-01-101420

Tot Ion:113 Resp: 212591
Ion Ratio Lower Upper
113 100
111 102.9 81.9 122.9
192 17.8 14.3 21.5

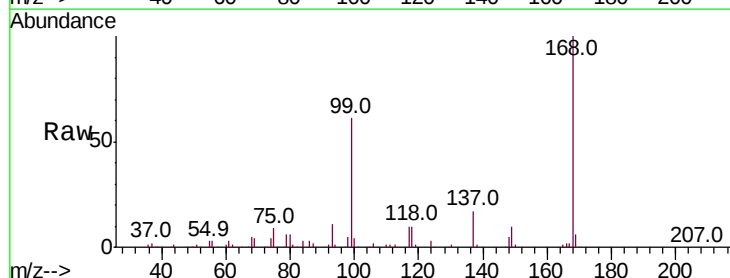


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

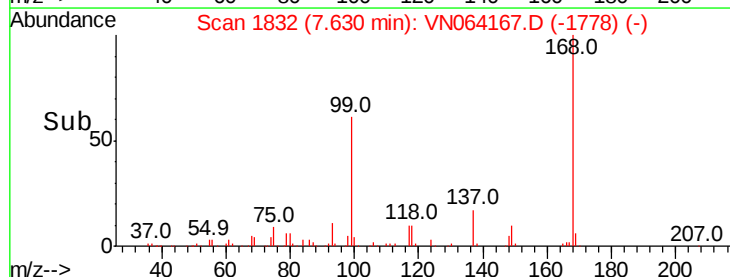
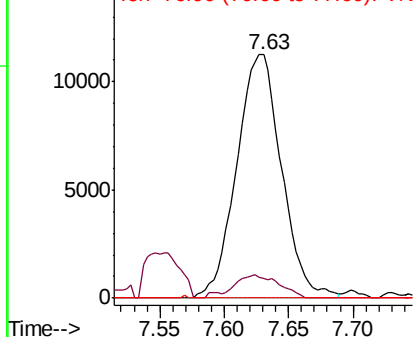


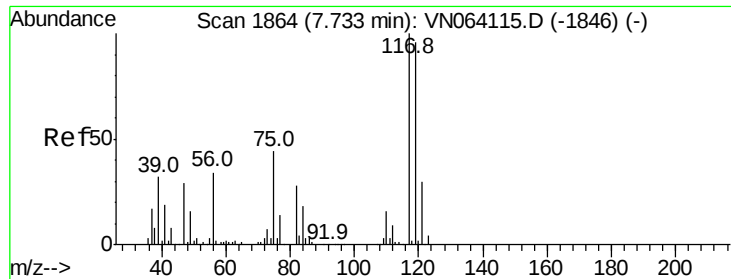
#36
1,1-Dichloropropene
Concen: 4.734 ug/l
RT: 7.63 min Scan# 1832
Delta R.T. -0.13 min
Lab File: VN064167.D
Acq: 16 Oct 2020 16:21

Tgt Ion: 75 Resp: 27297
Ion Ratio Lower Upper
75 100
110 9.0 17.8 53.3#
77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.120 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.10 min

Lab File: VN064167.D

Acq: 16 Oct 2020 16:21

Instrument :

MSVOA_N

ClientSampleId :

BU-01-101420

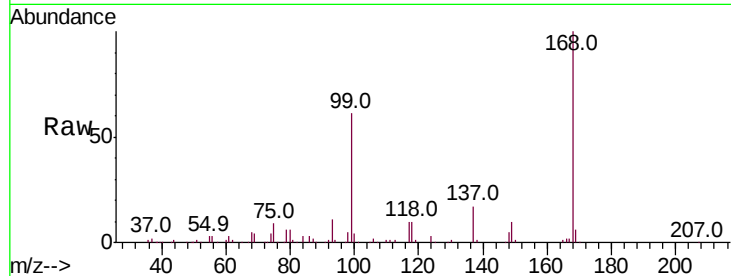
Tot Ion:117 Resp: 31748

Ion Ratio Lower Upper

117 100

119 7.3 77.0 115.4#

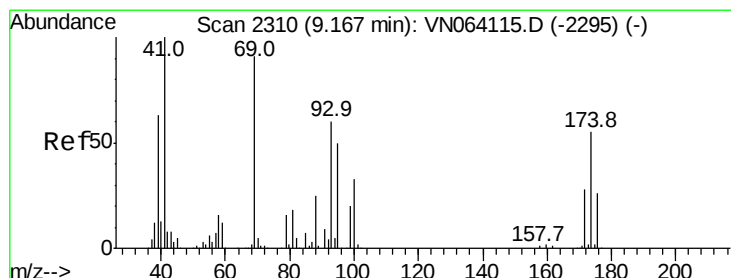
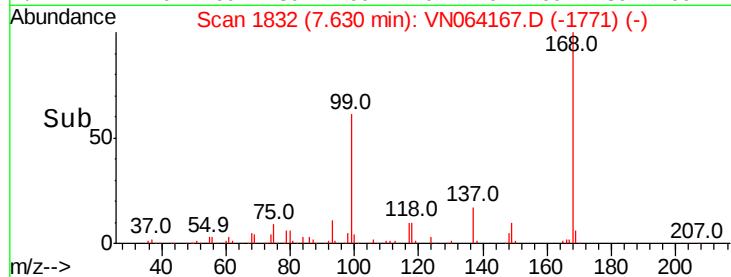
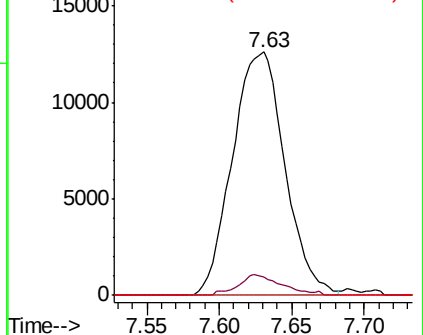
121 0.0 24.2 36.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 0.504 ug/l

RT: 9.19 min Scan# 2318

Delta R.T. 0.03 min

Lab File: VN064167.D

Acq: 16 Oct 2020 16:21

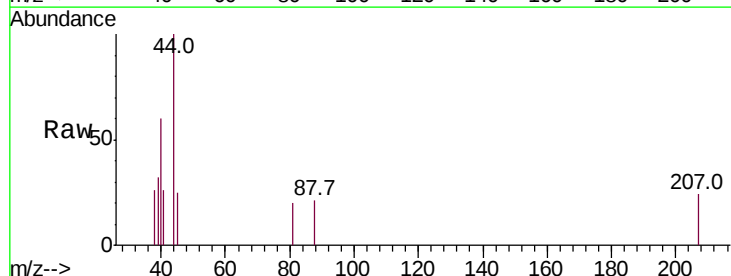
Tgt Ion: 88 Resp: 30

Ion Ratio Lower Upper

88 100

43 0.0 27.2 40.8#

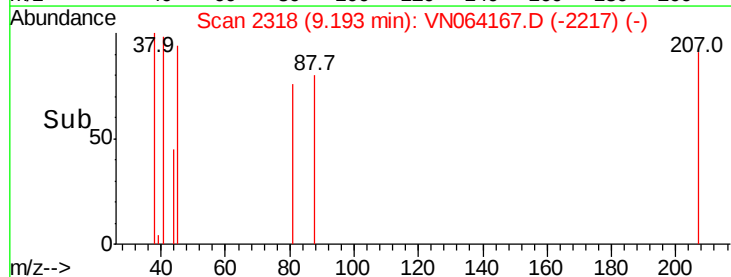
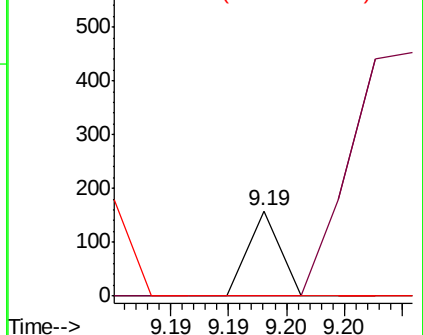
58 0.0 52.6 78.8#

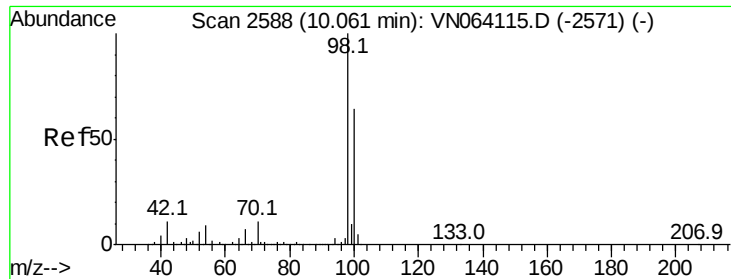


Abundance Ion 88.00 (87.70 to 88.70): V

Ion 43.00 (42.70 to 43.70): V

Ion 58.00 (57.70 to 58.70): V





#50

Toluene-d8

Concen: 50.239 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064167.D

Acq: 16 Oct 2020 16:21

Instrument :

MSVOA_N

ClientSampleId :

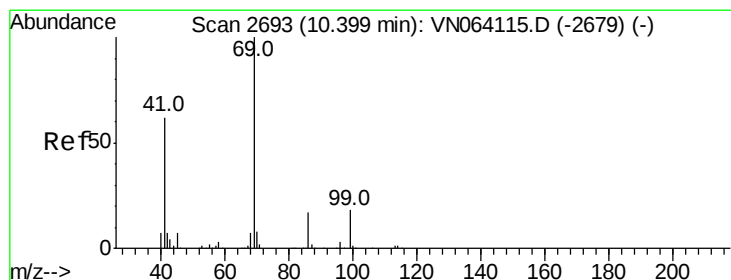
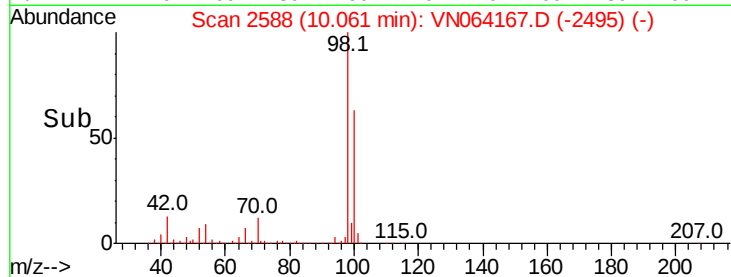
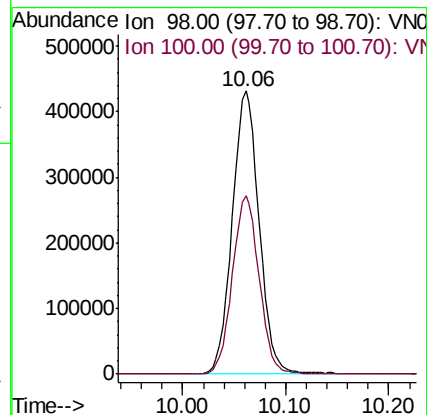
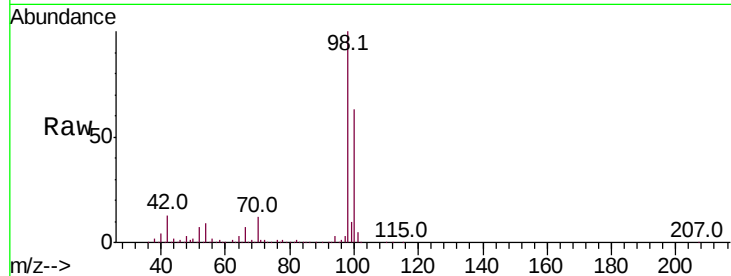
BU-01-101420

Tot Ion: 98 Resp: 784945

Ion Ratio Lower Upper

98 100

100 62.9 50.8 76.2



#56

Ethyl methacrylate

Concen: 2.310 ug/l

RT: 10.46 min Scan# 2713

Delta R.T. 0.07 min

Lab File: VN064167.D

Acq: 16 Oct 2020 16:21

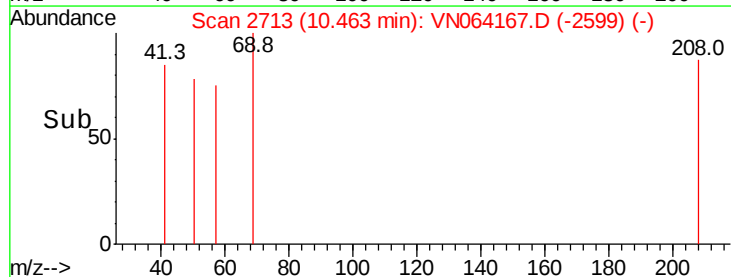
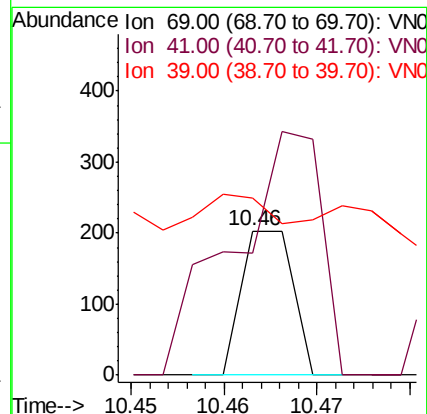
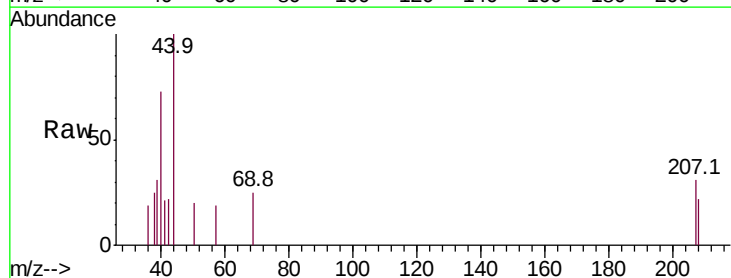
Tgt Ion: 69 Resp: 78

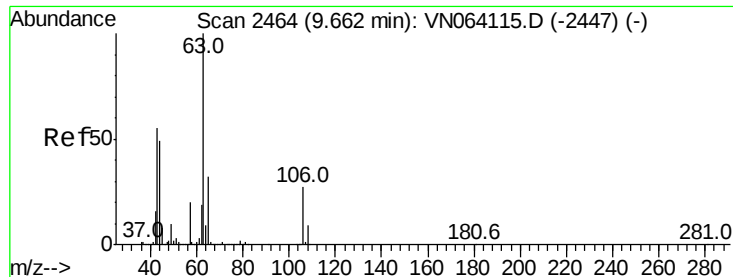
Ion Ratio Lower Upper

69 100

41 291.0 49.3 73.9#

39 0.0 32.7 49.1#





#58

2-Chloroethyl Vinyl ether

Concen: 12.238 ug/l

RT: 9.72 min Scan# 2483

Delta R.T. 0.06 min

Lab File: VN064167.D

Acq: 16 Oct 2020 16:21

Instrument :

MSVOA_N

ClientSampleId :

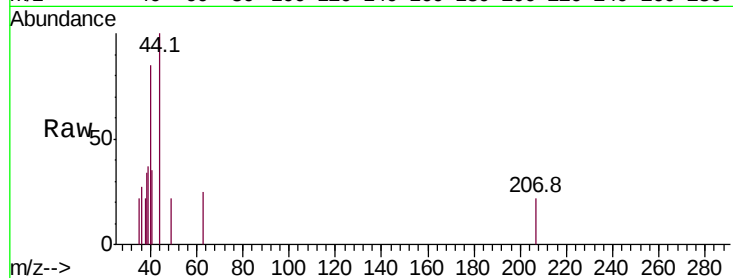
BU-01-101420

Tot Ion: 63 Resp: 65

Ion Ratio Lower Upper

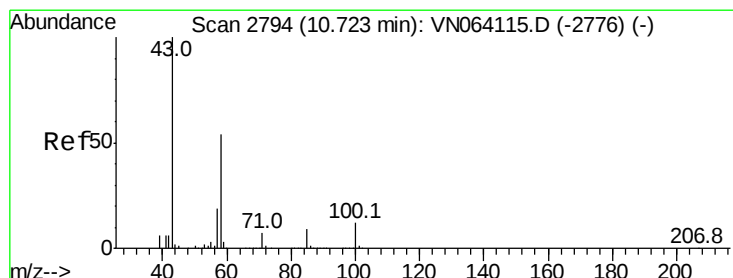
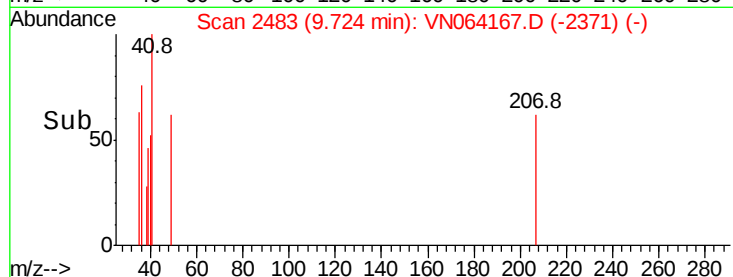
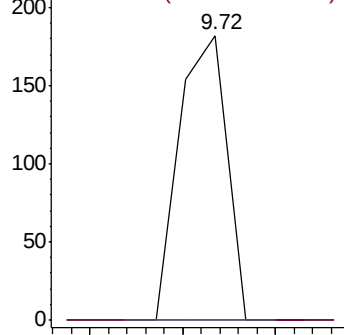
63 100

106 0.0 21.8 32.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): VN0



#59

2-Hexanone

Concen: 6.916 ug/l

RT: 10.75 min Scan# 2803

Delta R.T. 0.03 min

Lab File: VN064167.D

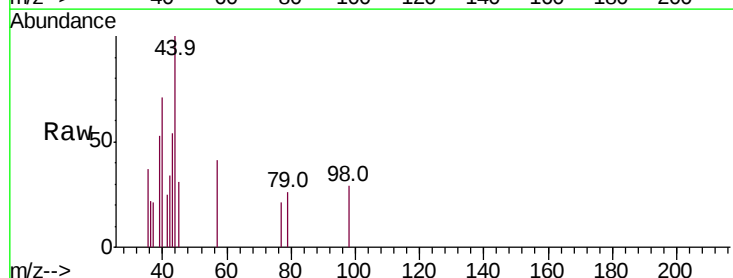
Acq: 16 Oct 2020 16:21

Tgt Ion: 43 Resp: 312

Ion Ratio Lower Upper

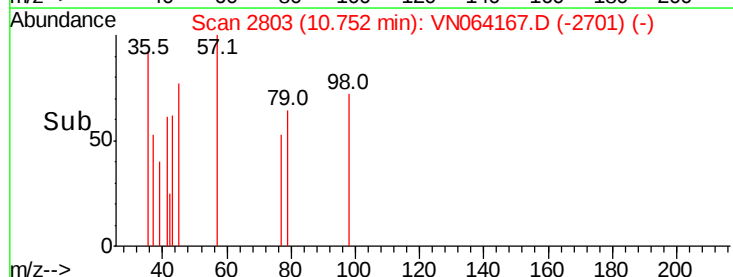
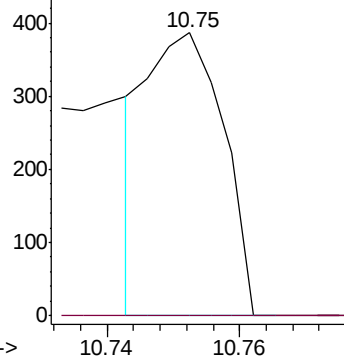
43 100

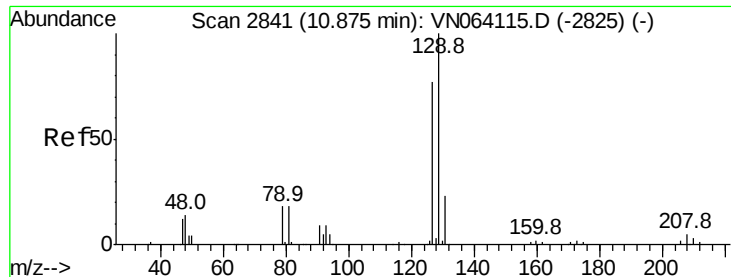
58 0.0 27.2 81.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

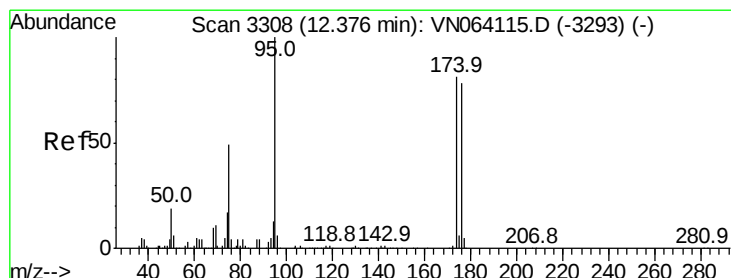
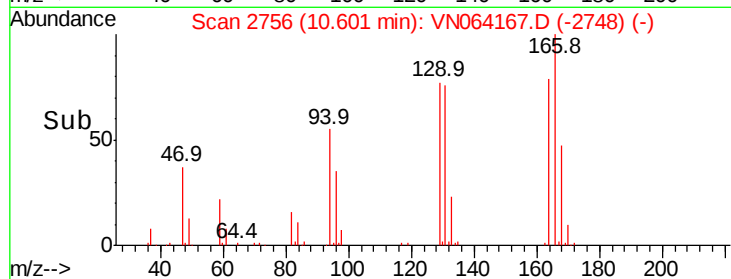
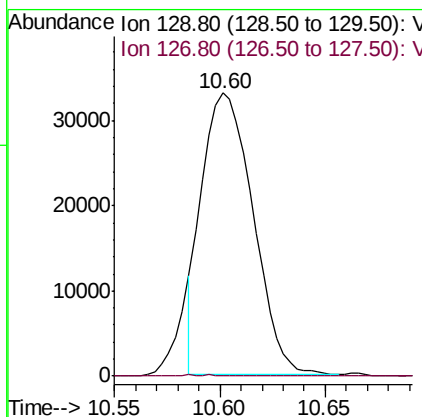
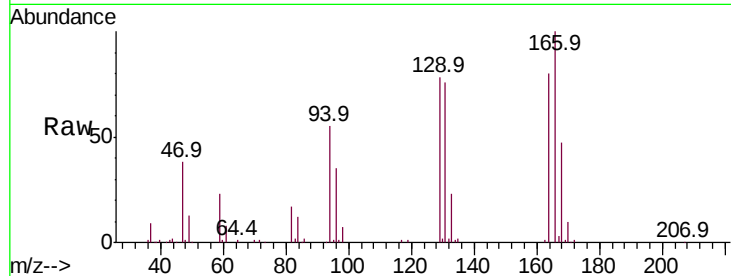




#60
Dibromochloromethane
Concen: 11.073 ug/l
RT: 10.60 min Scan# 2756
Delta R.T. -0.27 min
Lab File: VN064167.D
Acq: 16 Oct 2020 16:21

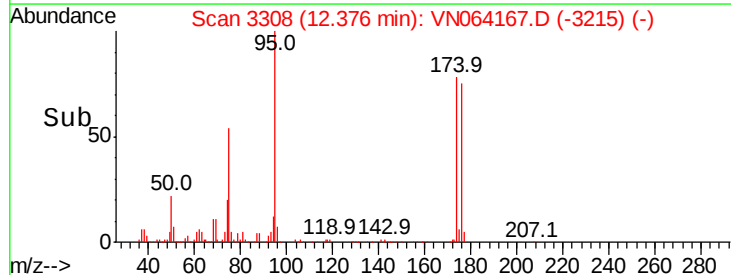
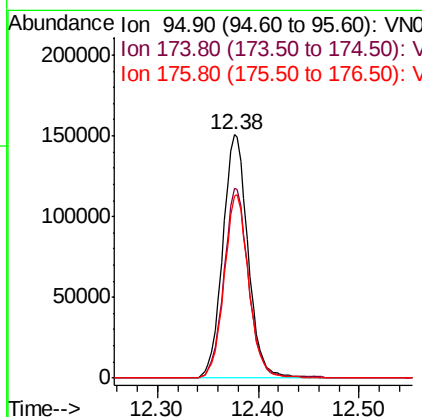
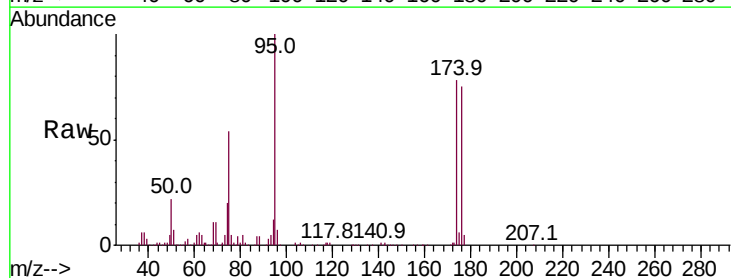
Instrument :
MSVOA_N
ClientSampleId :
BU-01-101420

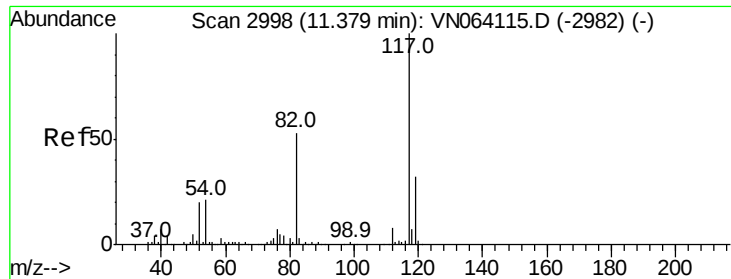
Tot Ion:129 Resp: 55291
Ion Ratio Lower Upper
129 100
127 0.1 38.2 114.6#



#62
4-Bromofluorobenzene
Concen: 49.187 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064167.D
Acq: 16 Oct 2020 16:21

Tgt Ion: 95 Resp: 264157
Ion Ratio Lower Upper
95 100
174 75.9 0.0 164.8
176 73.0 0.0 157.8

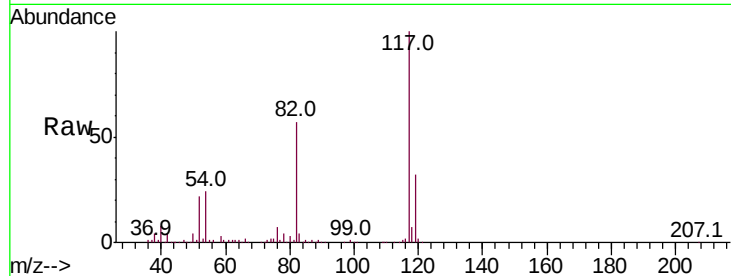




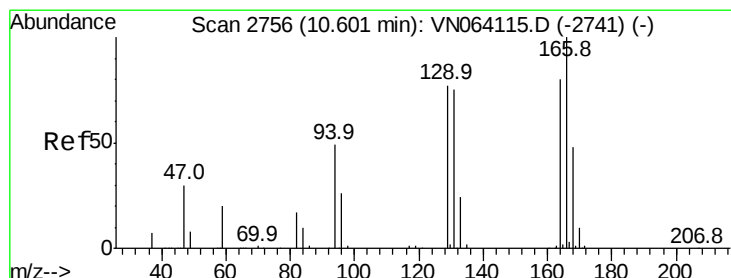
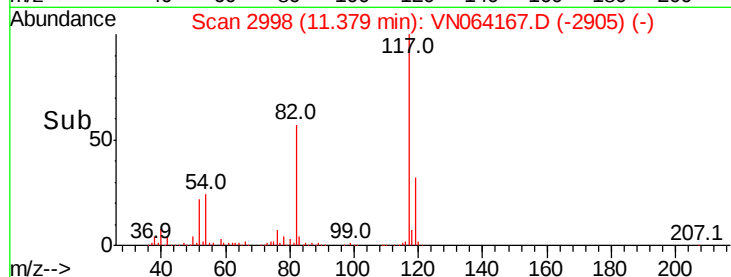
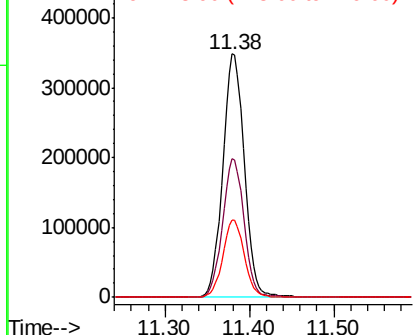
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064167.D
Acq: 16 Oct 2020 16:21

Instrument :
MSVOA_N
ClientSampleId :
BU-01-101420

Tot Ion:117 Resp: 619563
Ion Ratio Lower Upper
117 100
82 56.8 42.6 63.8
119 31.9 25.5 38.3

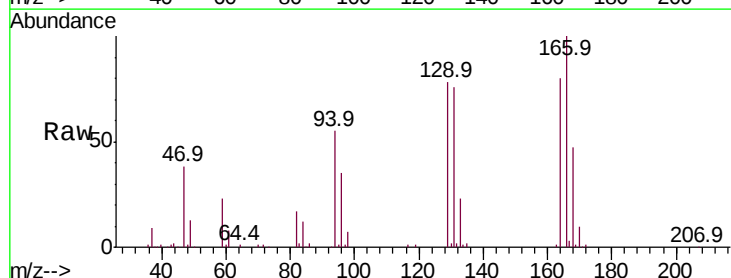


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

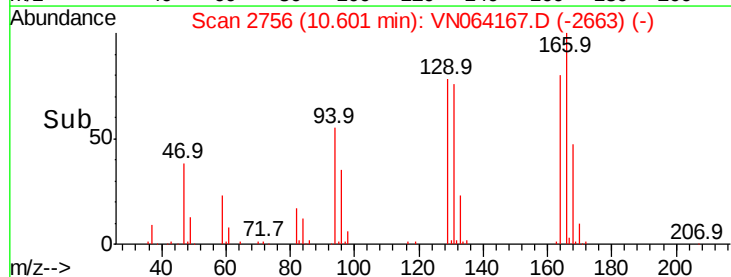
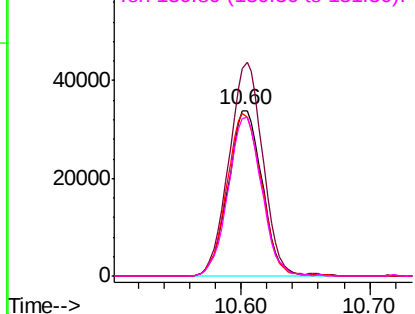


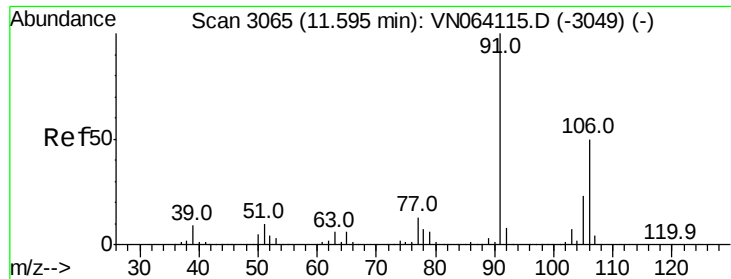
#64
Tetrachloroethene
Concen: 13.387 ug/l
RT: 10.60 min Scan# 2756
Delta R.T. 0.00 min
Lab File: VN064167.D
Acq: 16 Oct 2020 16:21

Tgt Ion:164 Resp: 62532
Ion Ratio Lower Upper
164 100
166 125.2 99.7 149.5
129 98.1 77.0 115.4
131 95.6 74.6 111.8



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

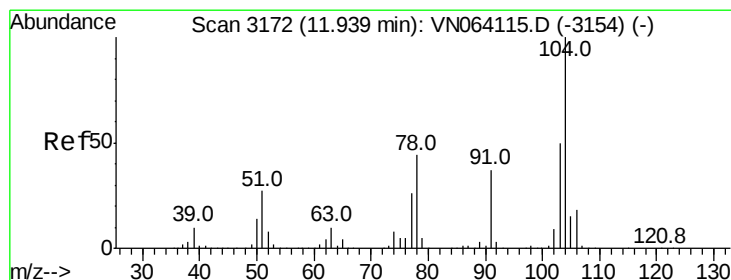
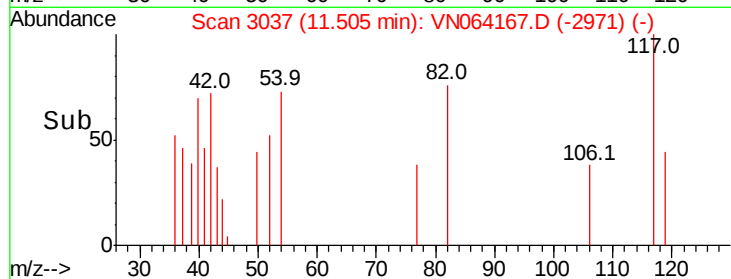
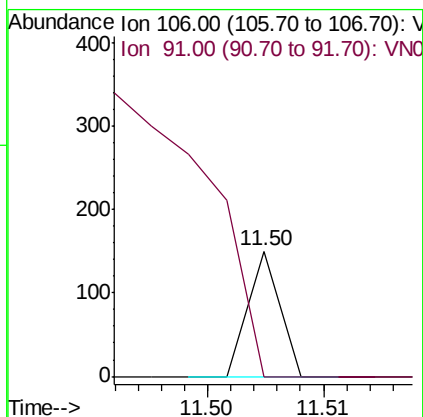
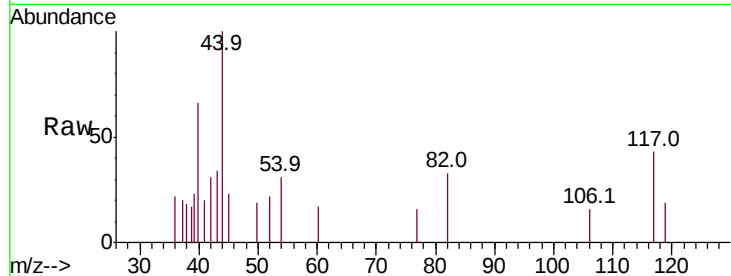




#68
m/p-Xvlenes
Concen: 2.195 ug/l
RT: 11.50 min Scan# 3037
Delta R.T. -0.09 min
Lab File: VN064167.D
Acq: 16 Oct 2020 16:21

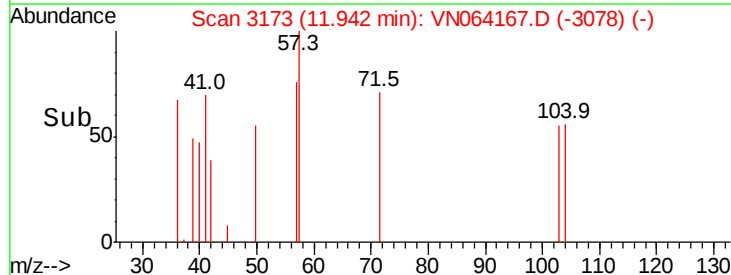
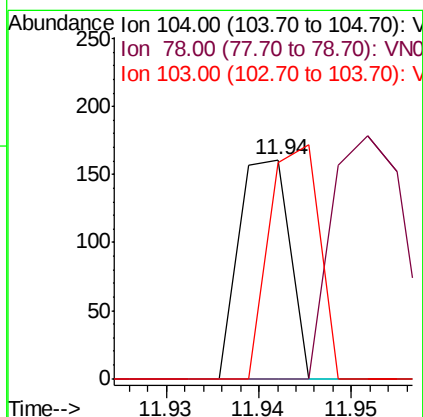
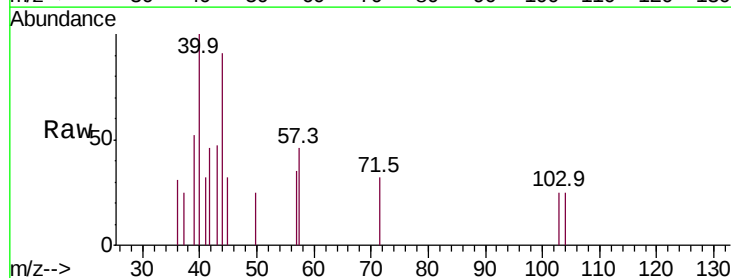
Instrument :
MSVOA_N
ClientSampleId :
BU-01-101420

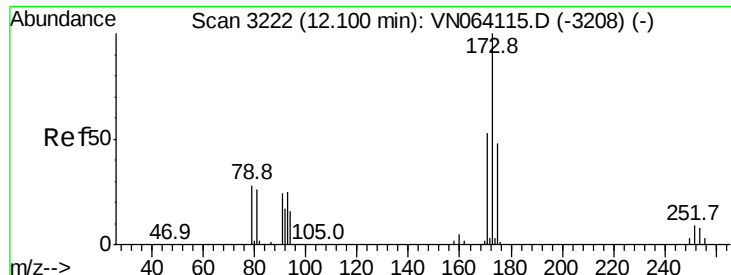
Tot Ion:106 Resp: 29
Ion Ratio Lower Upper
106 100
91 1437.9 162.1 243.1#



#70
Styrene
Concen: 2.041 ug/l
RT: 11.94 min Scan# 3173
Delta R.T. 0.00 min
Lab File: VN064167.D
Acq: 16 Oct 2020 16:21

Tgt Ion:104 Resp: 61
Ion Ratio Lower Upper
104 100
78 154.1 39.7 59.5#
103 104.9 44.2 66.2#

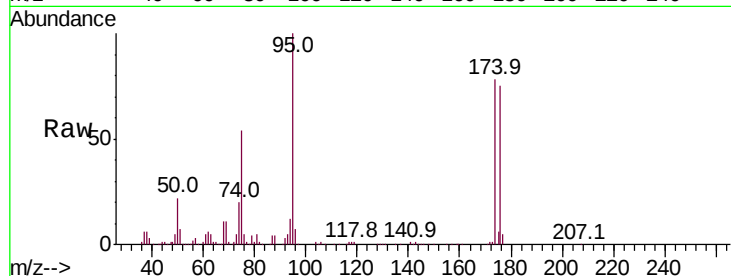




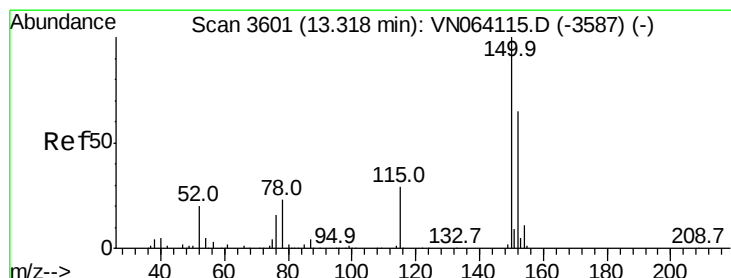
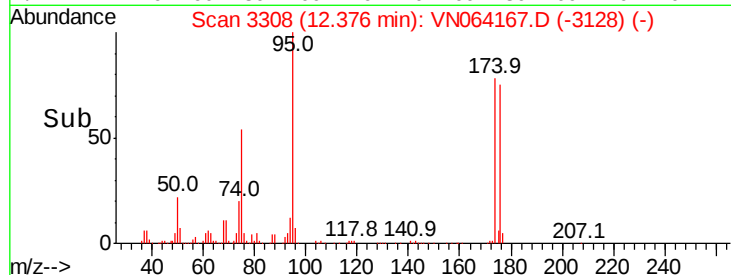
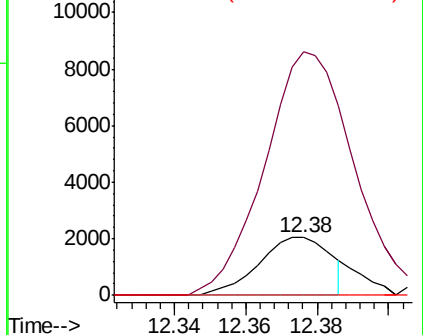
#71
Bromoform
Concen: 2.894 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.28 min
Lab File: VN064167.D
Acq: 16 Oct 2020 16:21

Instrument :
MSVOA_N
ClientSampleId :
BU-01-101420

Tot Ion:173 Resp: 2848
Ion Ratio Lower Upper
173 100
175 415.1 23.4 70.2#
254 0.0 0.1 0.1#

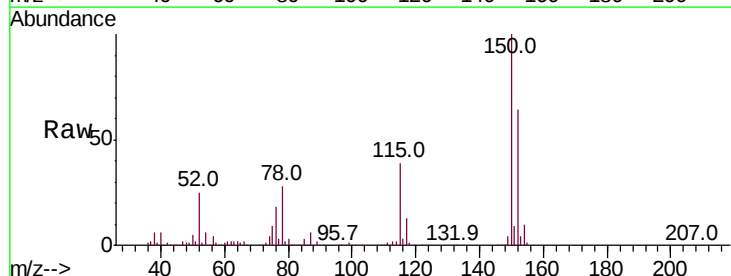


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

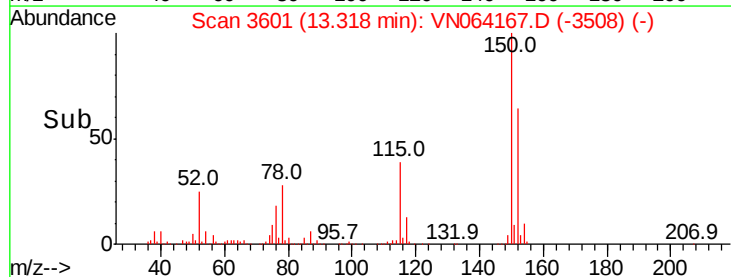
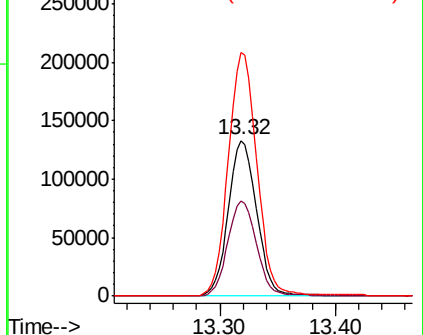


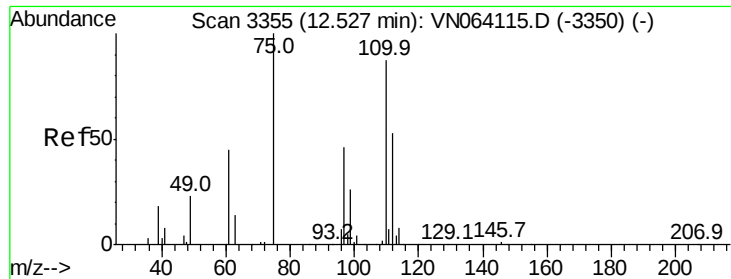
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN064167.D
Acq: 16 Oct 2020 16:21

Tgt Ion:152 Resp: 226614
Ion Ratio Lower Upper
152 100
115 61.6 29.3 87.8
150 158.0 0.0 346.0



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





#76

1,2,3-Trichloropropane

Concen: 26.238 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064167.D

Acq: 16 Oct 2020 16:21

Instrument :

MSVOA_N

ClientSampled :

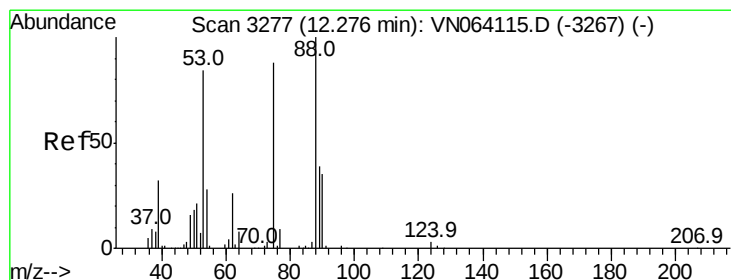
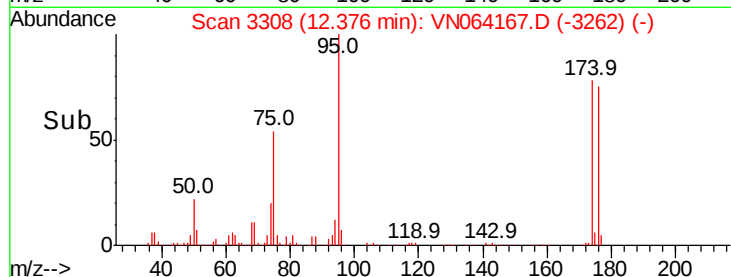
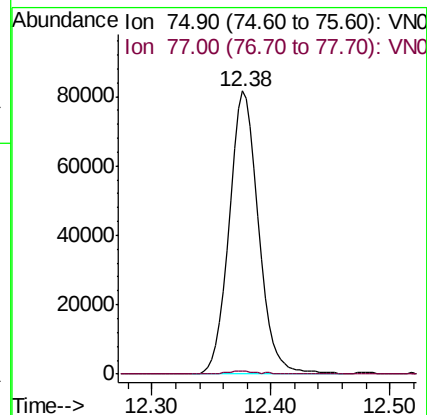
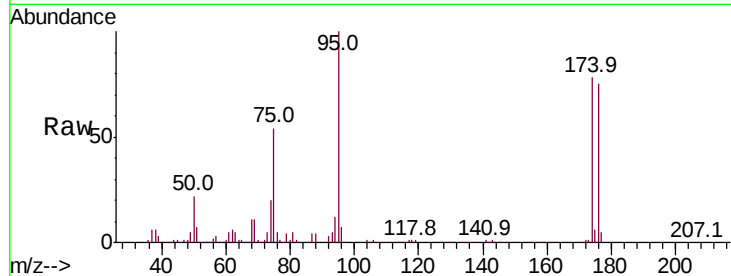
BU-01-101420

Tot Ion: 75 Resp: 139492

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 80.160 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064167.D

Acq: 16 Oct 2020 16:21

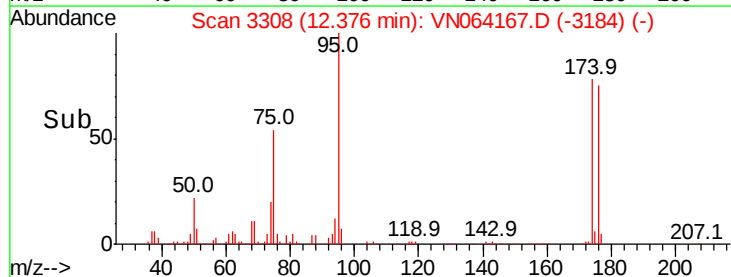
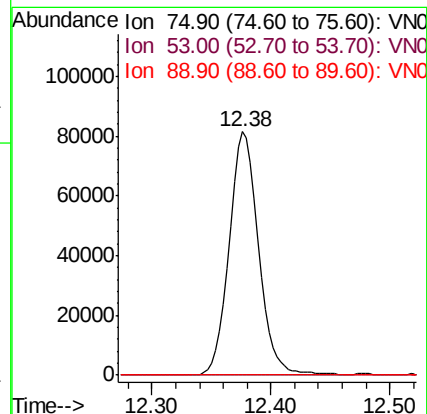
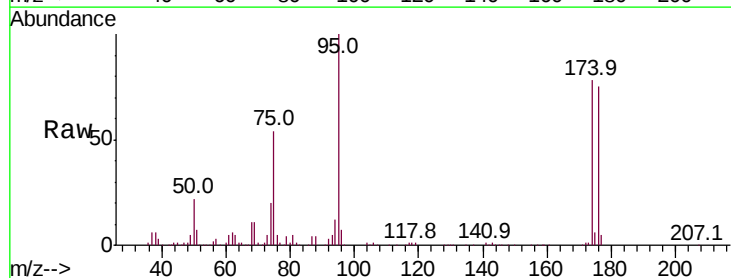
Tgt Ion: 75 Resp: 139492

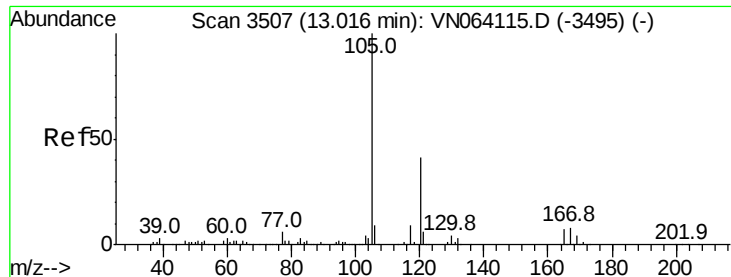
Ion Ratio Lower Upper

75 100

53 0.4 75.7 113.5#

89 0.0 36.6 55.0#

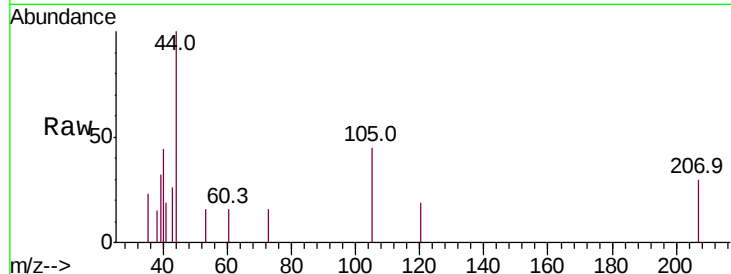




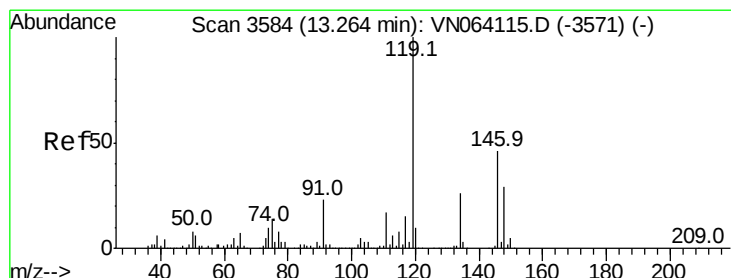
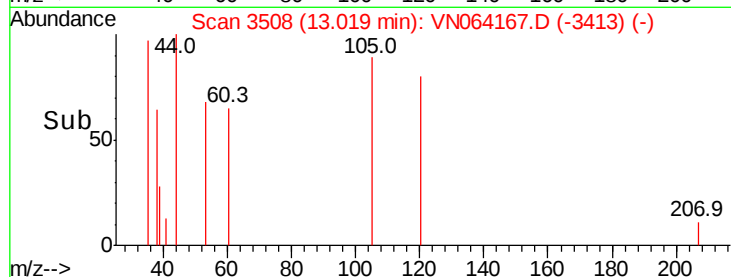
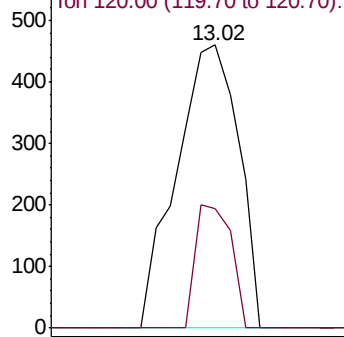
#84
 1,2,4-Trimethylbenzene
 Concen: 0.215 ug/l
 RT: 13.02 min Scan# 3508
 Delta R.T. 0.00 min
 Lab File: VN064167.D
 Acq: 16 Oct 2020 16:21

Instrument :
 MSVOA_N
 ClientSampled :
 BU-01-101420

Tot Ion:105 Resp: 428
 Ion Ratio Lower Upper
 105 100
 120 25.0 22.8 68.4

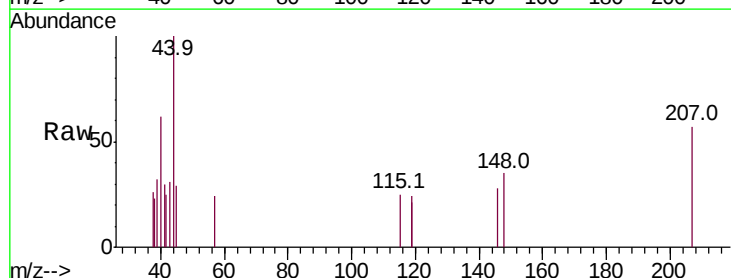


Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V

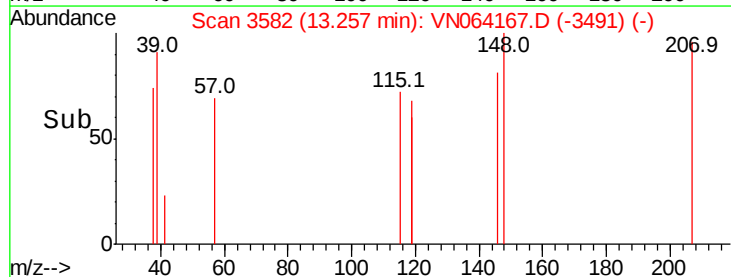
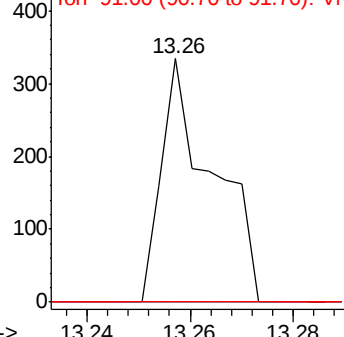


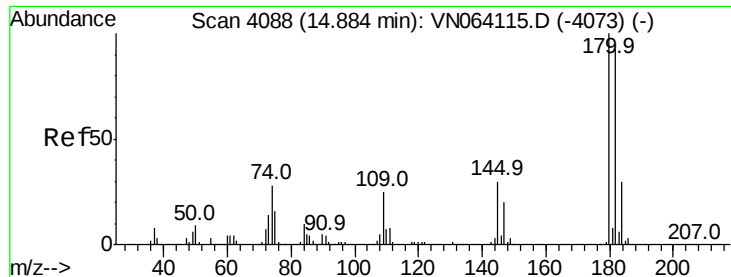
#86
 p-Isopropyltoluene
 Concen: 0.679 ug/l
 RT: 13.26 min Scan# 3582
 Delta R.T. -0.01 min
 Lab File: VN064167.D
 Acq: 16 Oct 2020 16:21

Tgt Ion:119 Resp: 229
 Ion Ratio Lower Upper
 119 100
 134 0.0 13.2 39.5#
 91 0.0 12.0 36.1#



Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 134.00 (133.70 to 134.70): V
 Ion 91.00 (90.70 to 91.70): V





#93

1,2,4-Trichlorobenzene

Concen: 3.196 ug/l

RT: 14.88 min Scan# 4088

Delta R.T. 0.00 min

Lab File: VN064167.D

Acq: 16 Oct 2020 16:21

Instrument :

MSVOA_N

ClientSampleId :

BU-01-101420

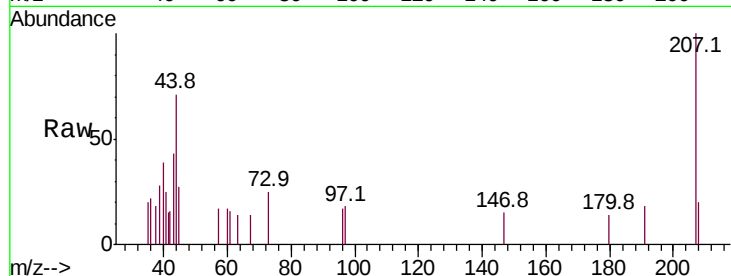
Tot Ion:180 Resp: 60

Ion Ratio Lower Upper

180 100

182 96.7 45.8 137.4

145 0.0 15.4 46.1#



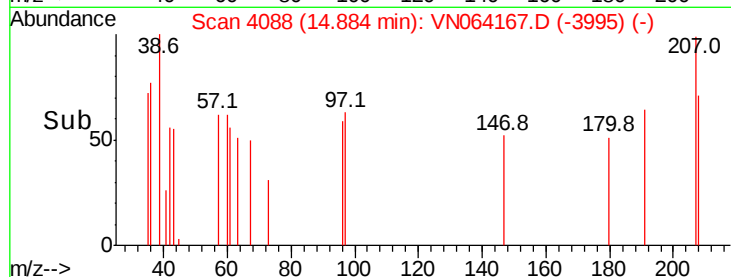
Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

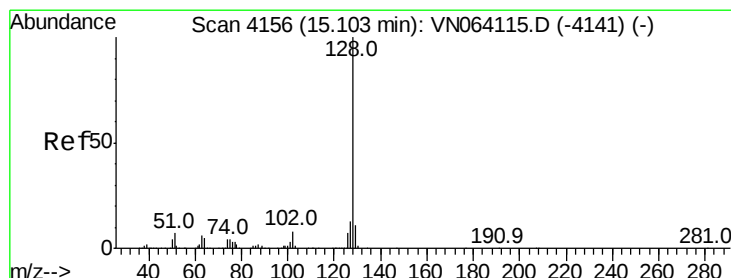
Ion 144.80 (144.50 to 145.50): V

14.88

14.87 14.88 14.89



Time-->



#95

Naphthalene

Concen: 3.828 ug/l

RT: 15.10 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN064167.D

Acq: 16 Oct 2020 16:21

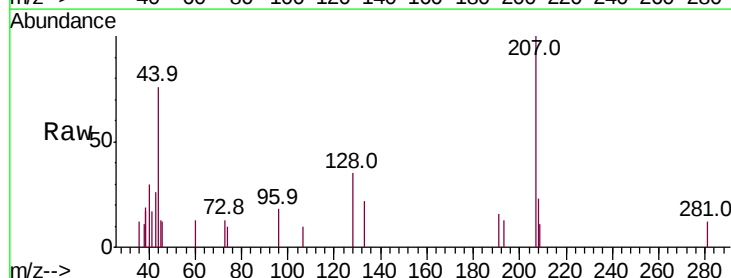
Tgt Ion:128 Resp: 370

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.5 12.7#



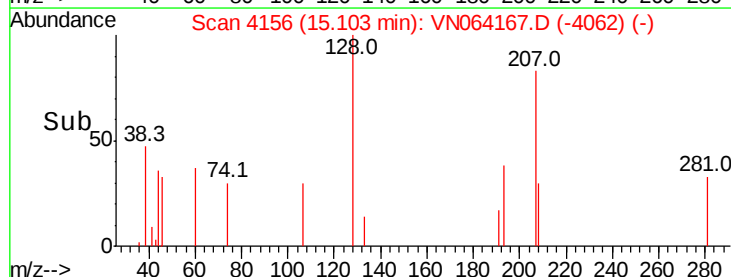
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

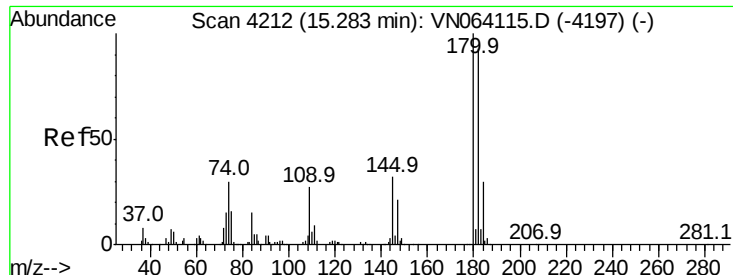
Ion 129.00 (128.70 to 129.70): V

15.10

15.08 15.09 15.10 15.11



Time-->



#96
 1,2,3-Trichlorobenzene
 Concen: 2.827 ug/l
 RT: 15.30 min Scan# 4217
 Delta R.T. 0.02 min
 Lab File: VN064167.D
 Acq: 16 Oct 2020 16:21

Instrument :
 MSVOA_N
 ClientSampleId :
 BU-01-101420

Tot Ion:180 Resp: 66
 Ion Ratio Lower Upper
 180 100
 182 51.5 46.6 139.8
 145 0.0 16.1 48.2#

