

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091420\
 Data File : VN063354.D
 Acq On : 14 Sep 2020 20:06
 Operator : JC/MD
 Sample : L4009-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 2020-09-11-TB01

Quant Time: Sep 15 05:14:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091020W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 11 06:02:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	389528	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	725607	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	712724	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	290755	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	296346	48.42	ug/l	0.00
Spiked Amount			Recovery	=	96.84%	
35) Dibromofluoromethane	7.55	113	229842	49.10	ug/l	0.00
Spiked Amount			Recovery	=	98.20%	
50) Toluene-d8	10.06	98	920468	51.31	ug/l	0.00
Spiked Amount			Recovery	=	102.62%	
62) 4-Bromofluorobenzene	12.38	95	346837	52.35	ug/l	0.00
Spiked Amount			Recovery	=	104.70%	

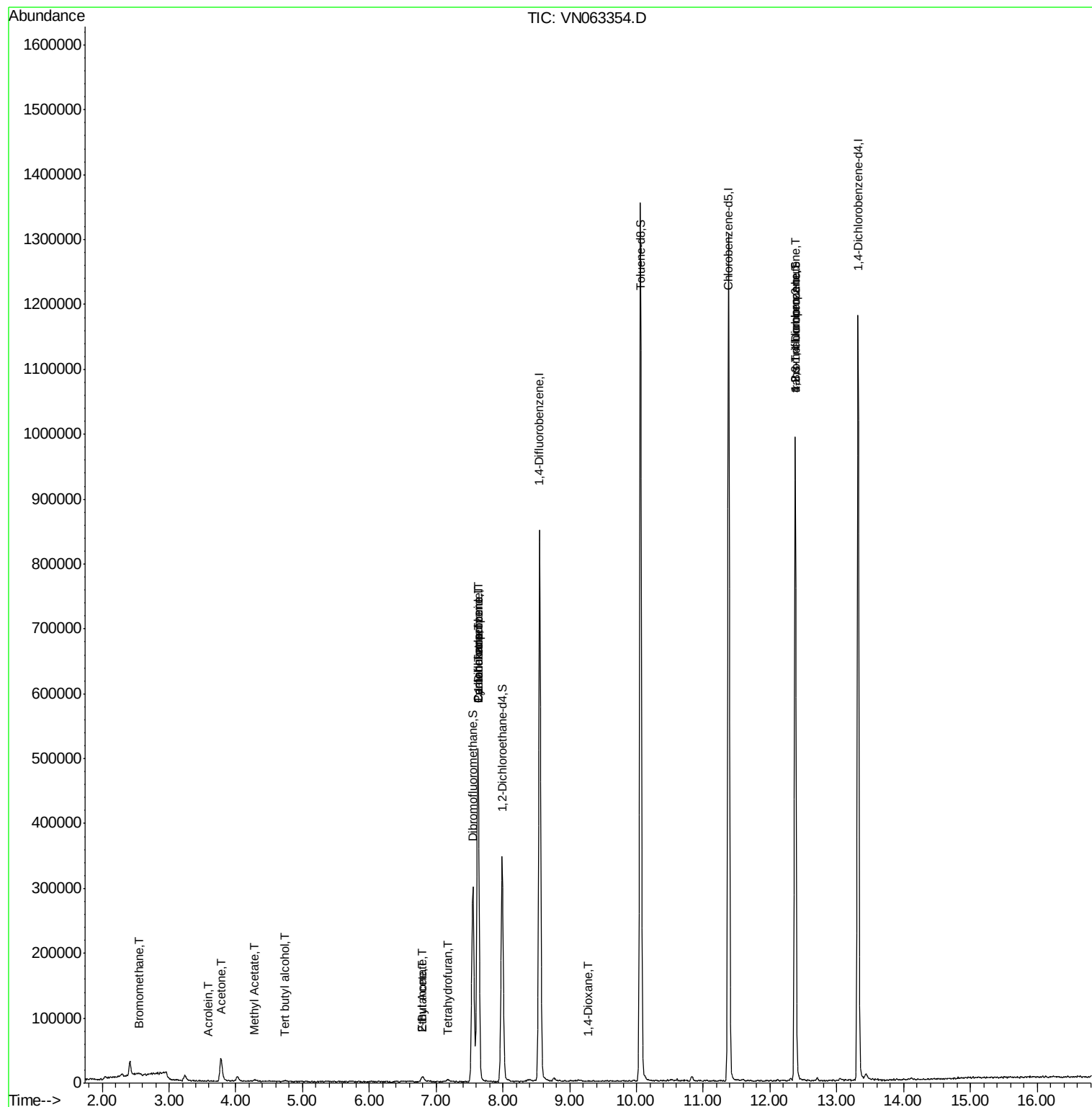
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	2118	Below Cal		98
5) Bromomethane	2.55	94	977	0.265	ug/l #	65
11) Tert butyl alcohol	4.74	59	2179	2.693	ug/l #	80
13) Acrolein	3.58	56	64	32.584	ug/l #	58
16) Acetone	3.78	43	63512	30.054	ug/l	100
17) Carbon Disulfide	4.02	76	98	Below Cal	#	75
18) Methyl Acetate	4.28	43	1172	0.221	ug/l #	68
20) Methylene Chloride	4.49	84	63	Below Cal	#	6
25) 2-Butanone	6.80	43	14049	4.500	ug/l #	88
29) Tetrahydrofuran	7.17	42	1123	0.552	ug/l #	21
31) Cyclohexane	7.63	56	10394	1.211	ug/l #	5
36) 1,1-Dichloropropene	7.62	75	35367	4.742	ug/l #	50
37) Ethyl Acetate	6.80	43	14049	1.915	ug/l #	71
38) Carbon Tetrachloride	7.62	117	42906	5.845	ug/l #	17
49) 1,4-Dioxane	9.28	88	64	0.697	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	187157	29.177	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	187157	78.394	ug/l #	9
88) 1,4-Dichlorobenzene	13.34	146	782	Below Cal	#	42
95) Naphthalene	15.11	128	1680	Below Cal	#	72
96) 1,2,3-Trichlorobenzene	15.29	180	36	Below Cal	#	12

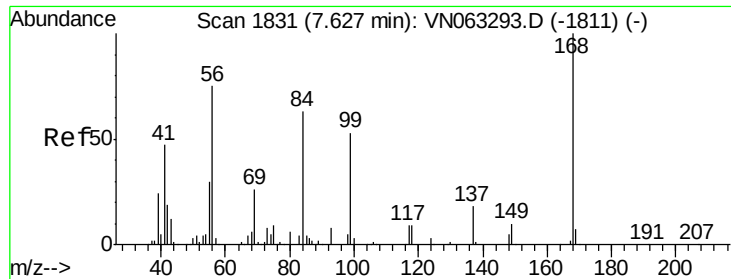
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Sep 11 06:02:56 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.00 min

Lab File: VN063354.D

Acq: 14 Sep 2020 20:06

Instrument :

MSVOA_N

ClientSampleId :

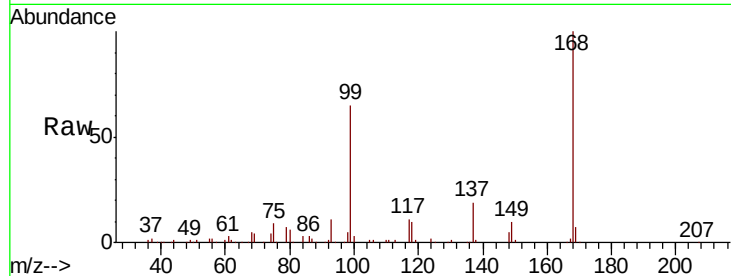
2020-09-11-TB01

Tot Ion:168 Resp: 389528

Ion Ratio Lower Upper

168 100

99 65.0 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

150000

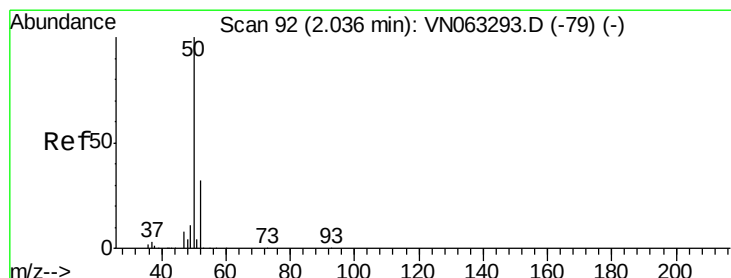
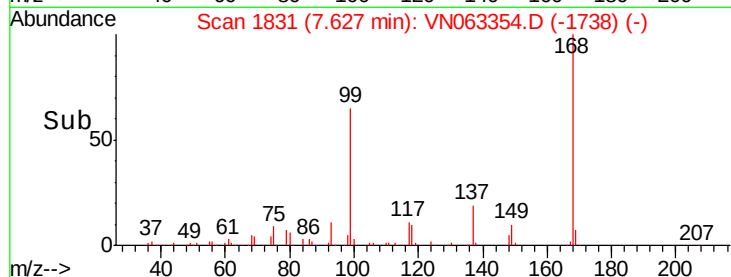
100000

50000

0

7.50 7.60 7.70

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 92

Delta R.T. 0.00 min

Lab File: VN063354.D

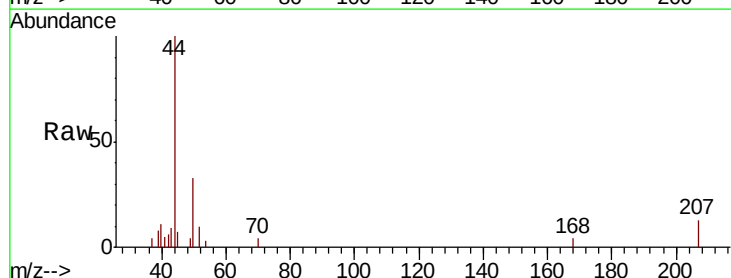
Acq: 14 Sep 2020 20:06

Tgt Ion: 50 Resp: 2118

Ion Ratio Lower Upper

50 100

52 30.9 25.4 38.2



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

1500

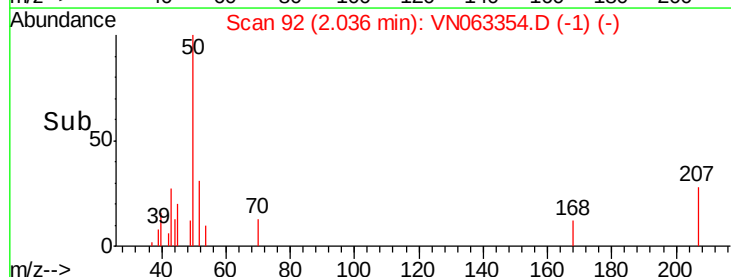
1000

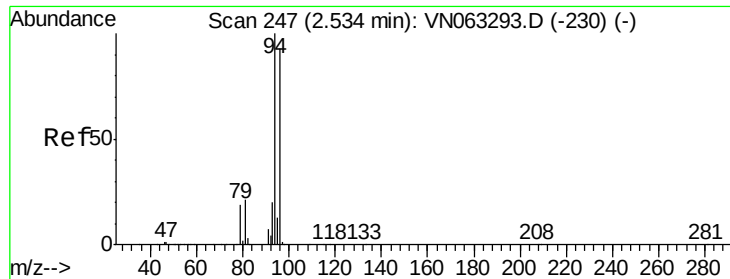
500

0

2.00 2.05

Time-->





#5

Bromomethane

Concen: 0.265 ug/l

RT: 2.55 min Scan# 251

Delta R.T. 0.01 min

Lab File: VN063354.D

Acq: 14 Sep 2020 20:06

Instrument :

MSVOA_N

ClientSampleId :

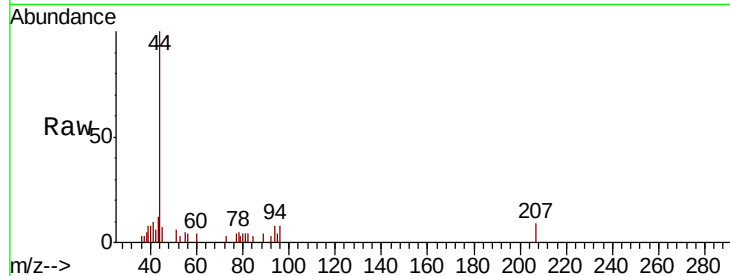
2020-09-11-TB01

Tot Ion: 94 Resp: 977

Ion Ratio Lower Upper

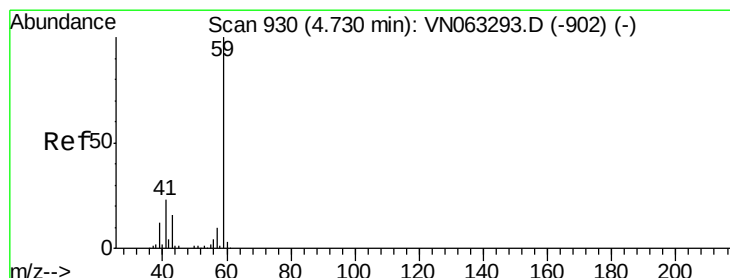
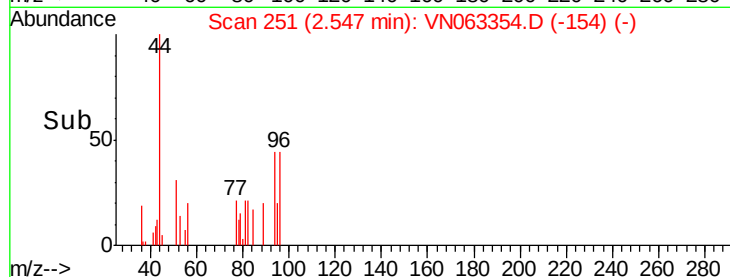
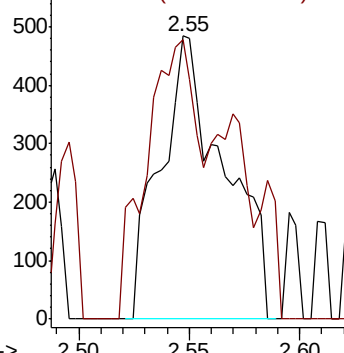
94 100

96 59.1 74.3 111.5#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#11

Tert butyl alcohol

Concen: 2.693 ug/l

RT: 4.74 min Scan# 932

Delta R.T. 0.01 min

Lab File: VN063354.D

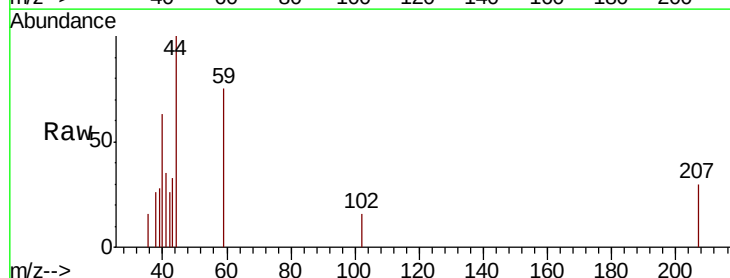
Acq: 14 Sep 2020 20:06

Tgt Ion: 59 Resp: 2179

Ion Ratio Lower Upper

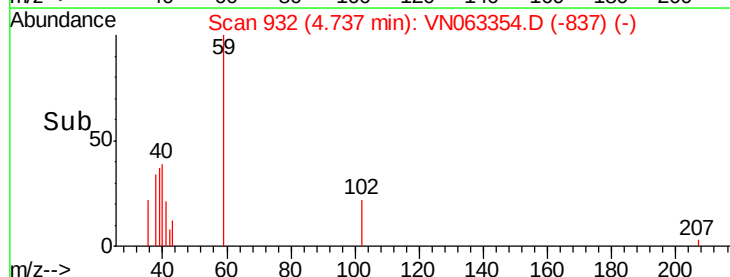
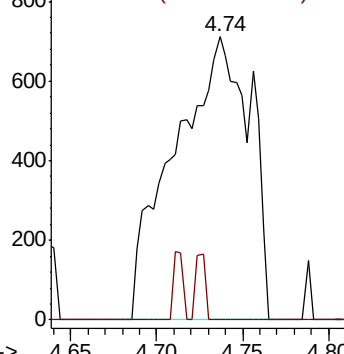
59 100

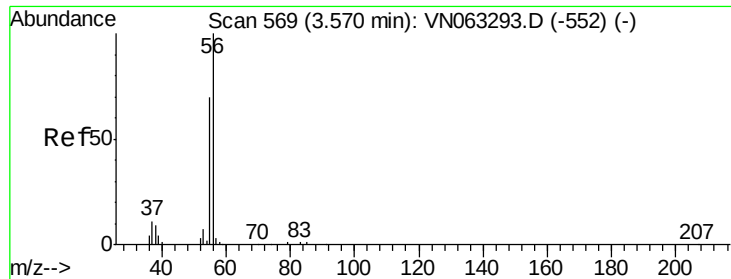
57 2.9 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#13

Acrolein

Concen: 32.584 ug/l

RT: 3.58 min Scan# 571

Delta R.T. 0.01 min

Lab File: VN063354.D

Acq: 14 Sep 2020 20:06

Instrument :

MSVOA_N

ClientSampleId :

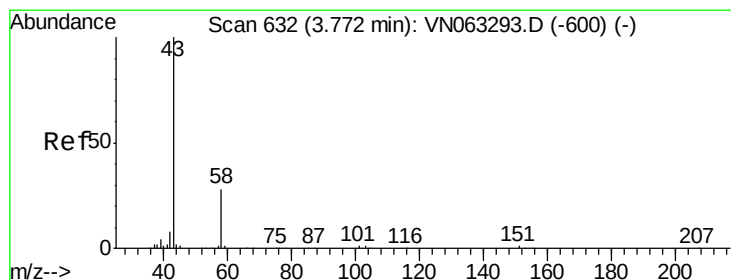
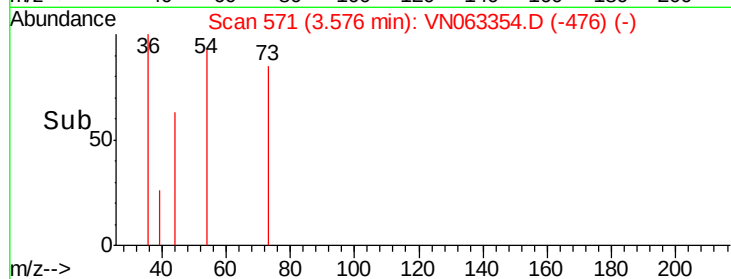
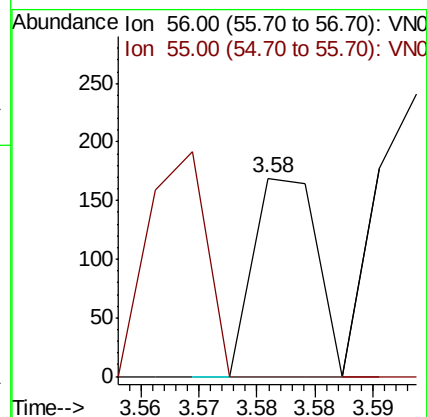
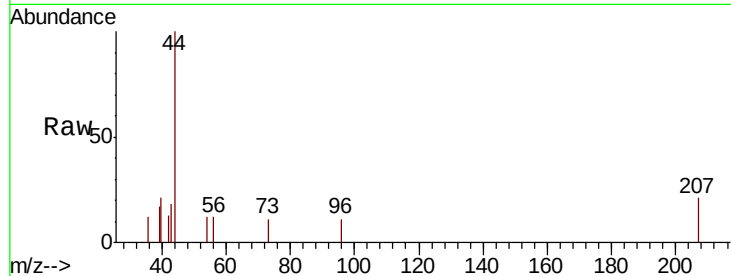
2020-09-11-TB01

Tot Ion: 56 Resp: 64

Ion Ratio Lower Upper

56 100

55 106.3 57.2 85.8#



#16

Acetone

Concen: 30.054 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN063354.D

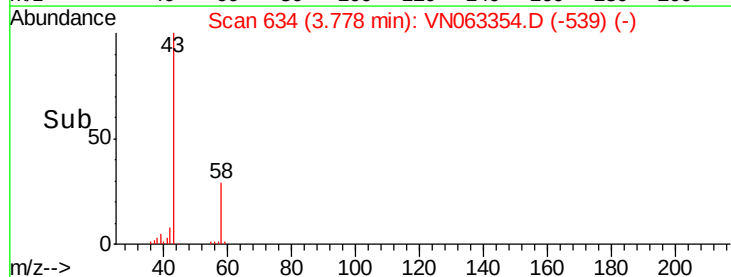
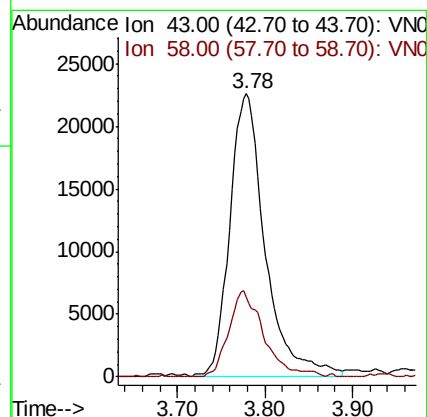
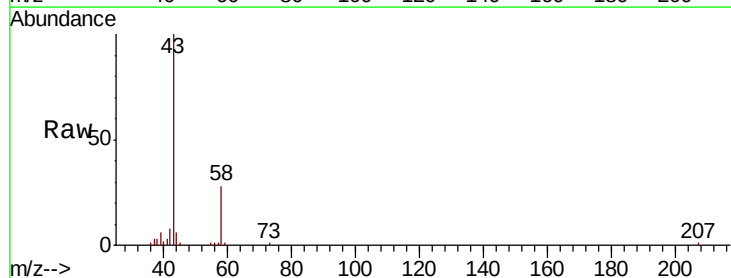
Acq: 14 Sep 2020 20:06

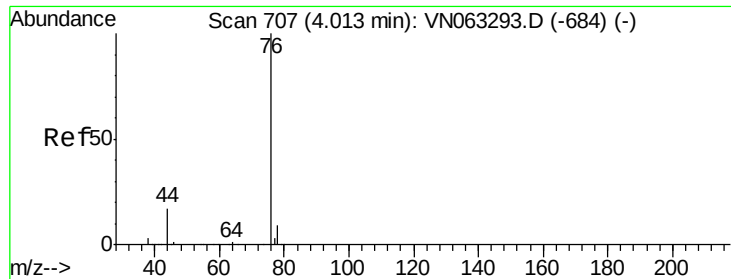
Tgt Ion: 43 Resp: 63512

Ion Ratio Lower Upper

43 100

58 28.4 22.6 34.0

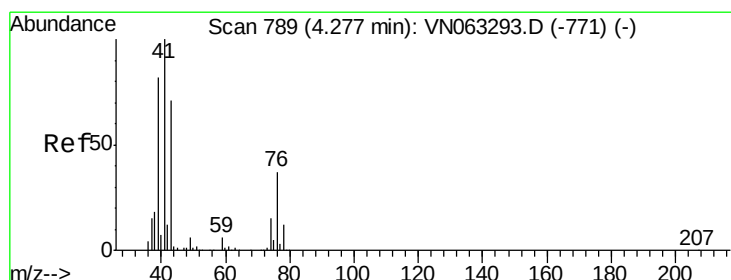
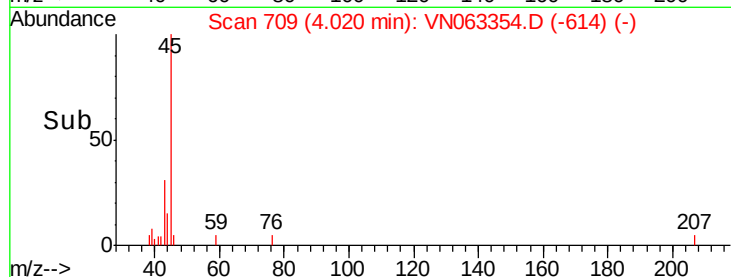
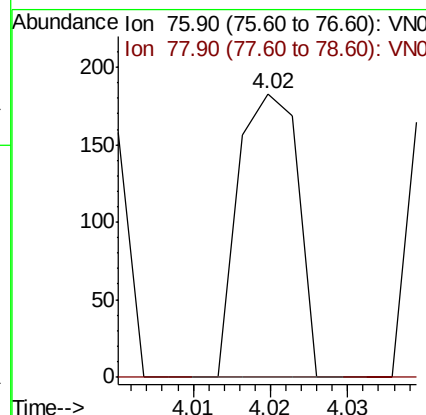
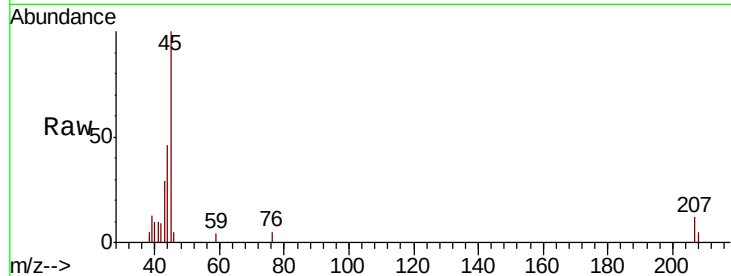




#17
Carbon Disulfide
Concen: Below Cal
RT: 4.02 min Scan# 709
Delta R.T. 0.01 min
Lab File: VN063354.D
Acq: 14 Sep 2020 20:06

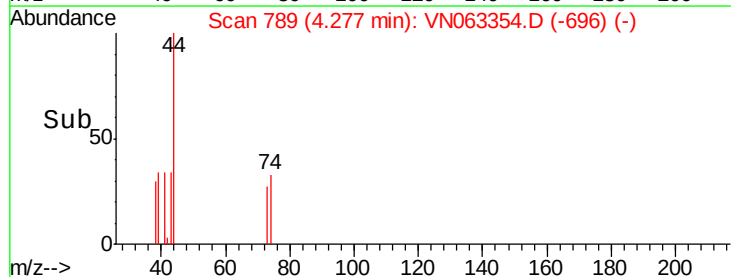
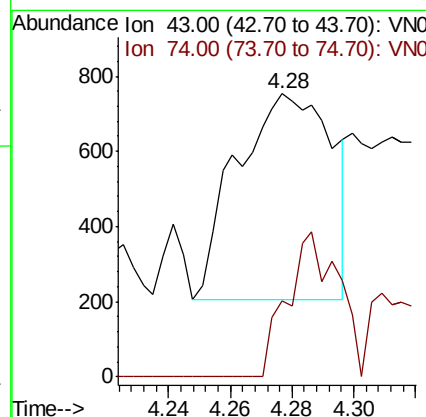
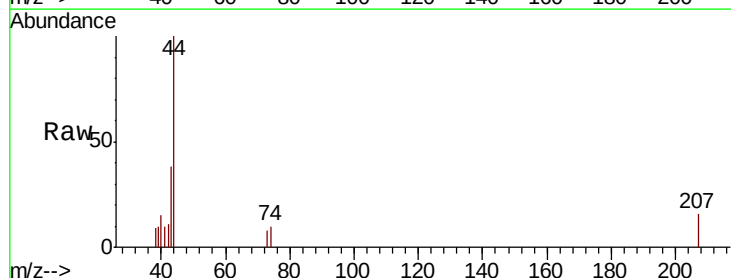
Instrument :
MSVOA_N
ClientSampleId :
2020-09-11-TB01

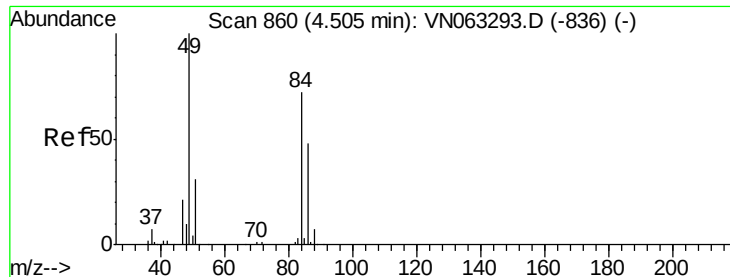
Tot Ion: 76 Resp: 98
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



#18
Methyl Acetate
Concen: 0.221 ug/l
RT: 4.28 min Scan# 789
Delta R.T. -0.00 min
Lab File: VN063354.D
Acq: 14 Sep 2020 20:06

Tgt Ion: 43 Resp: 1172
Ion Ratio Lower Upper
43 100
74 37.4 17.8 26.6#

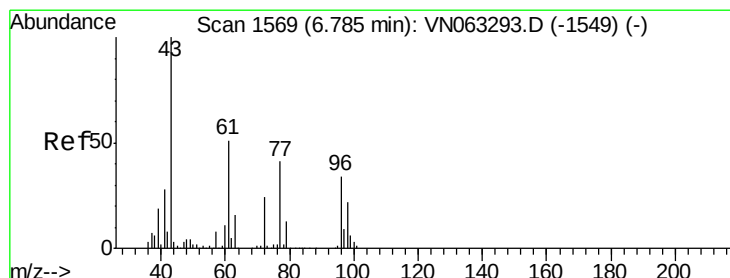
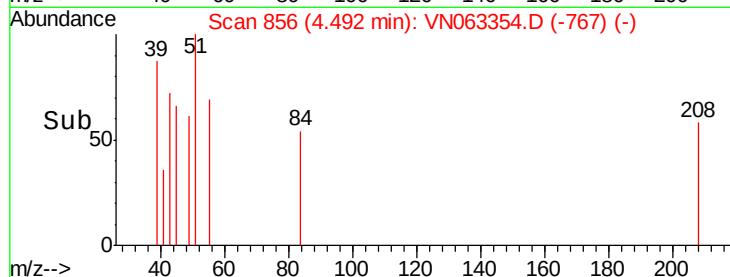
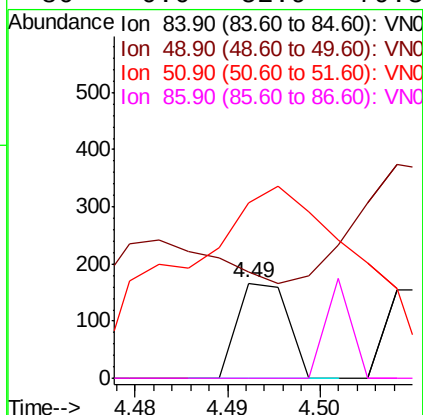
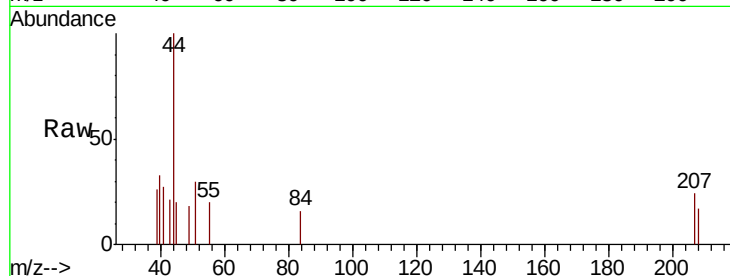




#20
Methylene Chloride
Concen: Below Cal
RT: 4.49 min Scan# 856
Delta R.T. -0.01 min
Lab File: VN063354.D
Acq: 14 Sep 2020 20:06

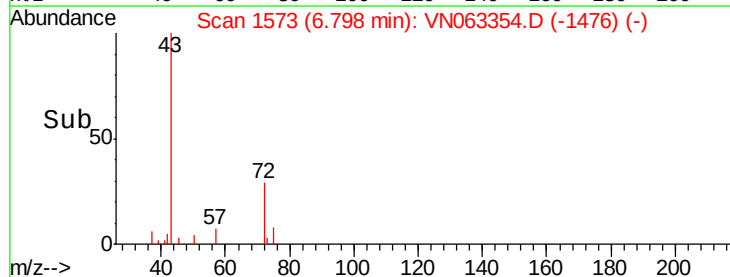
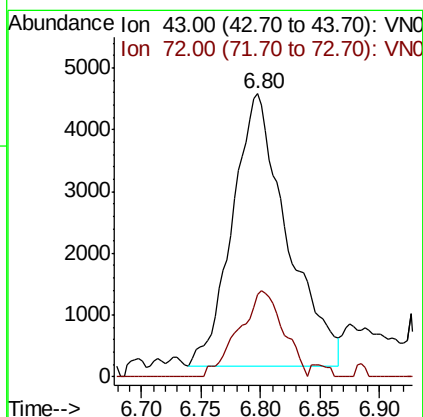
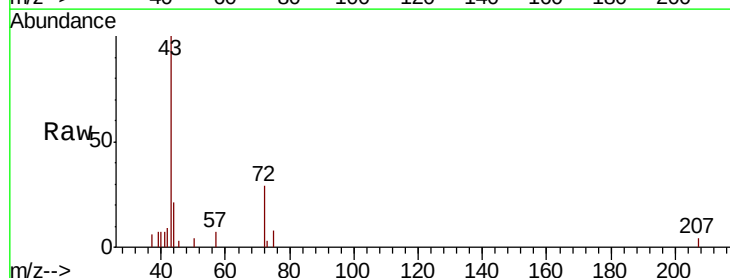
Instrument :
MSVOA_N
ClientSampled :
2020-09-11-TB01

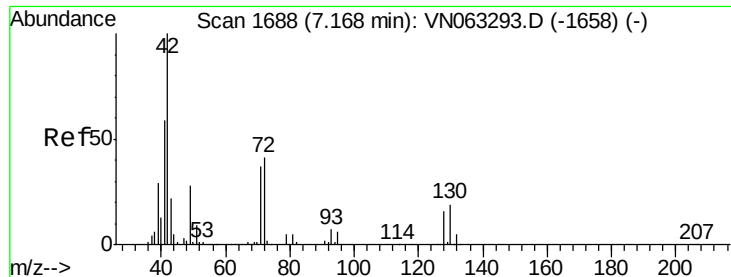
Tot Ion: 84 Resp: 63
Ion Ratio Lower Upper
84 100
49 0.0 111.1 166.7#
51 69.9 34.3 51.5#
86 0.0 52.9 79.3#



#25
2-Butanone
Concen: 4.500 ug/l
RT: 6.80 min Scan# 1573
Delta R.T. 0.01 min
Lab File: VN063354.D
Acq: 14 Sep 2020 20:06

Tgt Ion: 43 Resp: 14049
Ion Ratio Lower Upper
43 100
72 30.0 19.4 29.2#





#29

Tetrahydrofuran

Concen: 0.552 ug/l

RT: 7.17 min Scan# 1688

Delta R.T. -0.00 min

Lab File: VN063354.D

Acq: 14 Sep 2020 20:06

Instrument :

MSVOA_N

ClientSampleId :

2020-09-11-TB01

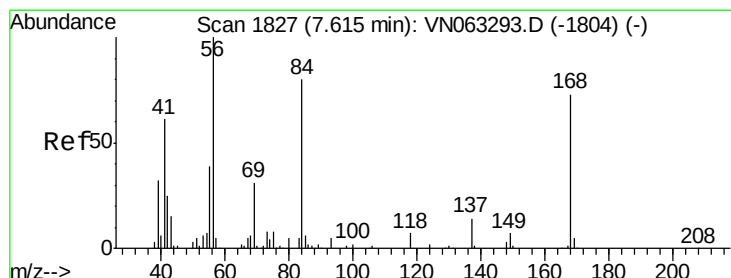
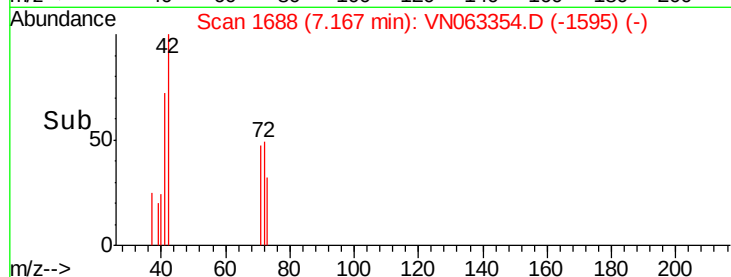
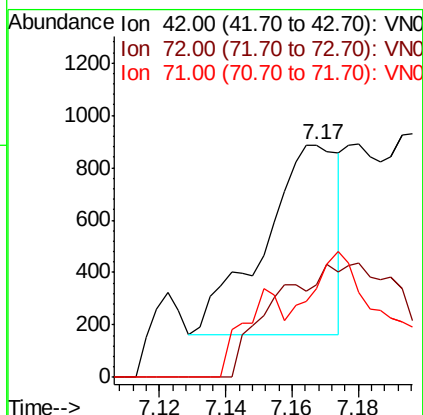
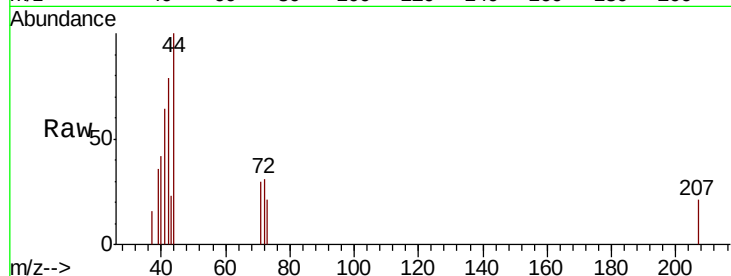
Tot Ion: 42 Resp: 1123

Ion Ratio Lower Upper

42 100

72 107.1 31.4 47.2#

71 65.2 30.0 45.0#



#31

Cyclohexane

Concen: 1.211 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN063354.D

Acq: 14 Sep 2020 20:06

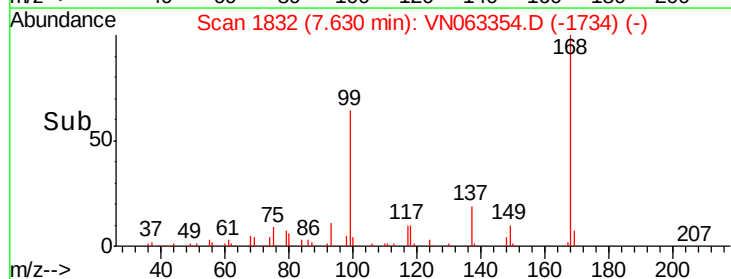
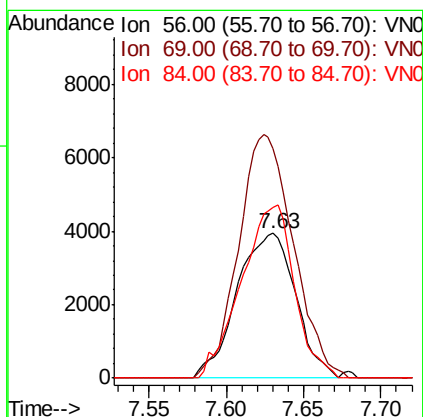
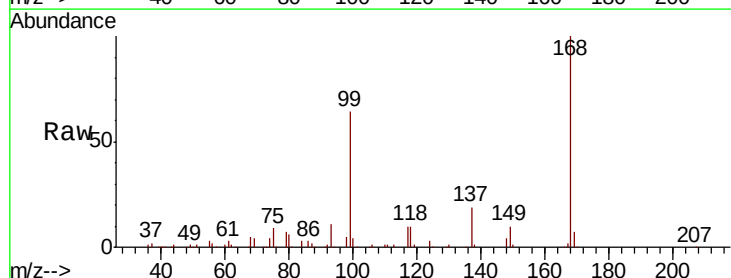
Tgt Ion: 56 Resp: 10394

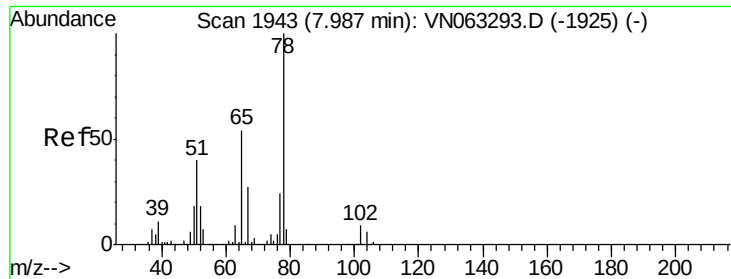
Ion Ratio Lower Upper

56 100

69 158.5 25.1 37.7#

84 117.6 64.2 96.2#

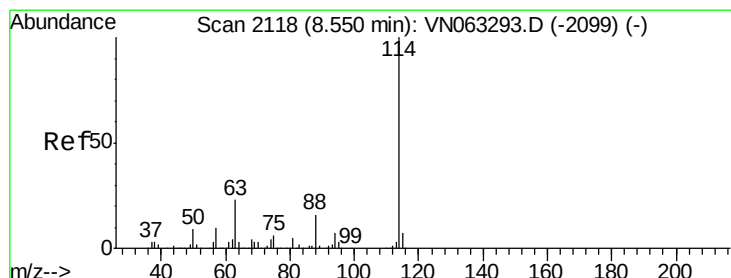
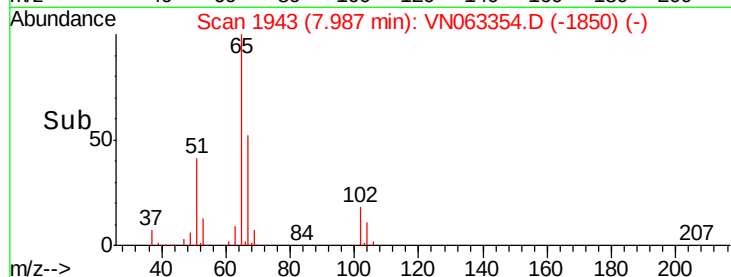
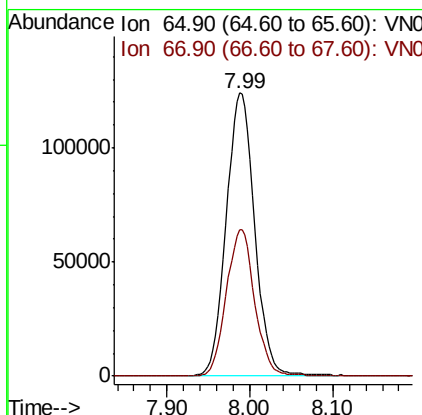
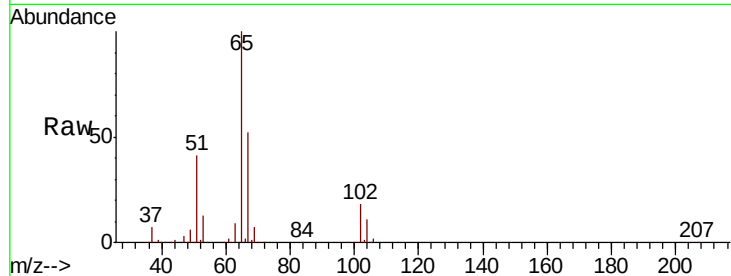




#33
 1,2-Dichloroethane-d4
 Concen: 48.422 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN063354.D
 Acq: 14 Sep 2020 20:06

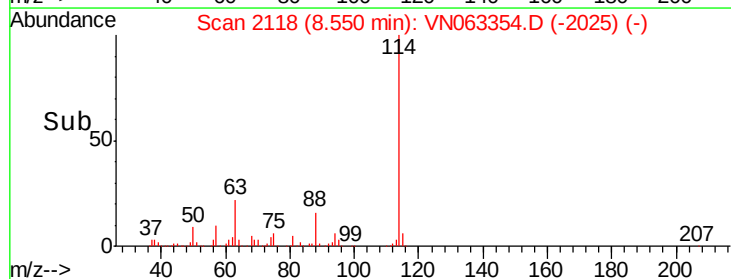
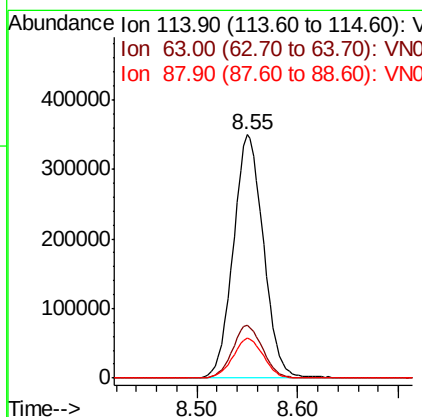
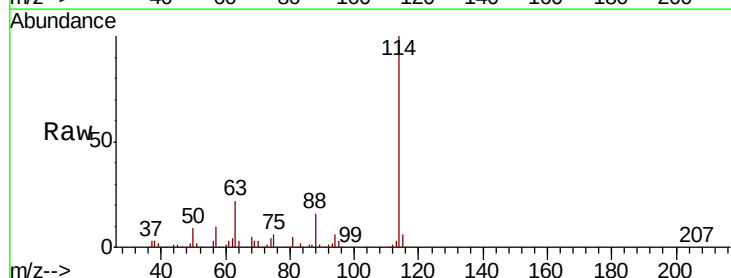
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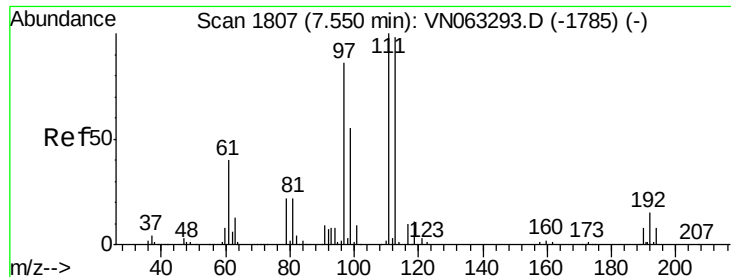
Tot Ion: 65 Resp: 296346
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063354.D
 Acq: 14 Sep 2020 20:06

Tgt Ion: 114 Resp: 725607
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 46.0
 88 16.2 0.0 32.8





#35

Dibromofluoromethane

Concen: 49.100 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. -0.00 min

Lab File: VN063354.D

Acq: 14 Sep 2020 20:06

Instrument :

MSVOA_N

ClientSampleId :

2020-09-11-TB01

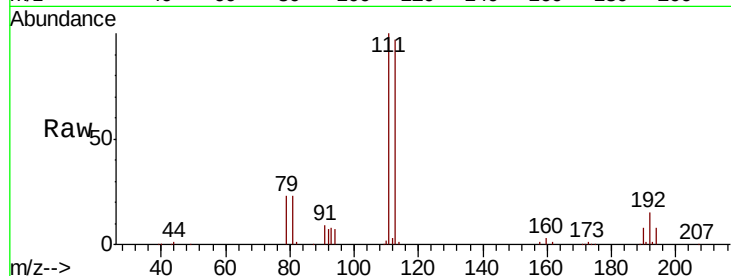
Tot Ion:113 Resp: 229842

Ion Ratio Lower Upper

113 100

111 102.7 82.2 123.2

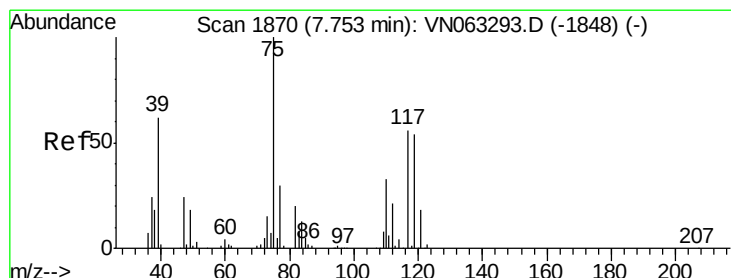
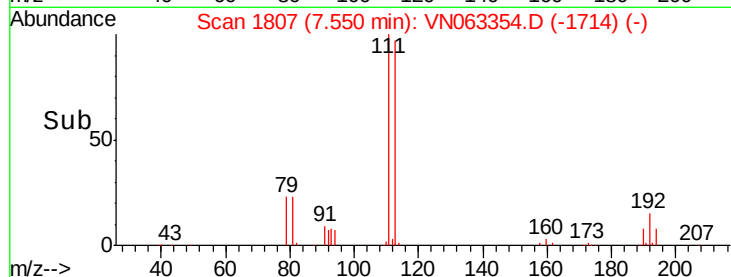
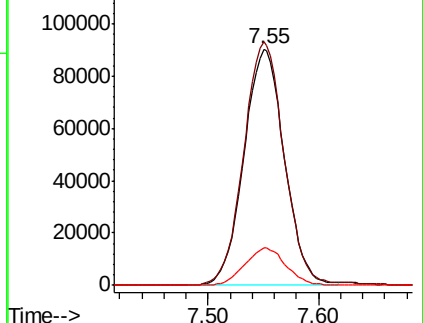
192 16.2 12.9 19.3



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.742 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN063354.D

Acq: 14 Sep 2020 20:06

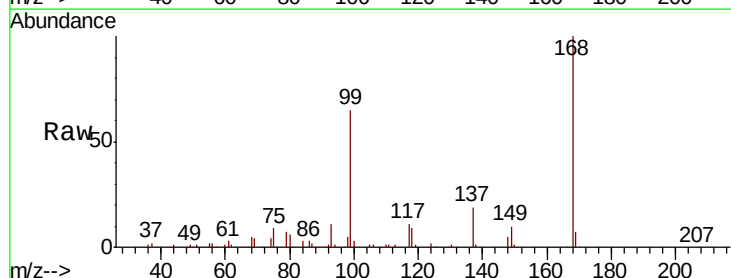
Tgt Ion: 75 Resp: 35367

Ion Ratio Lower Upper

75 100

110 8.2 16.4 49.4#

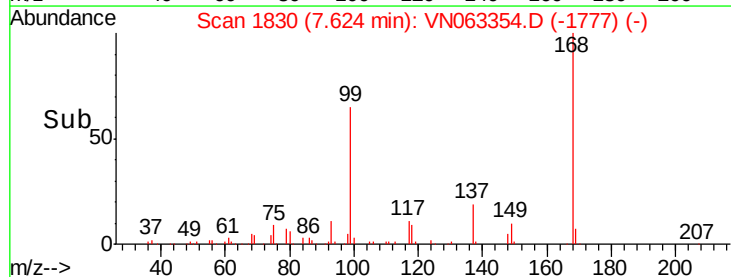
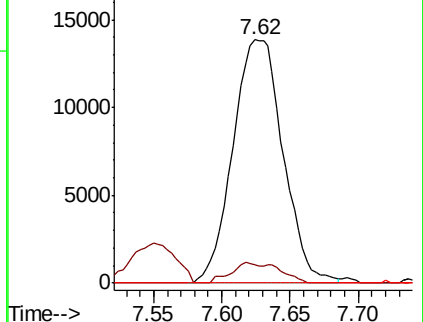
77 0.0 24.8 37.2#

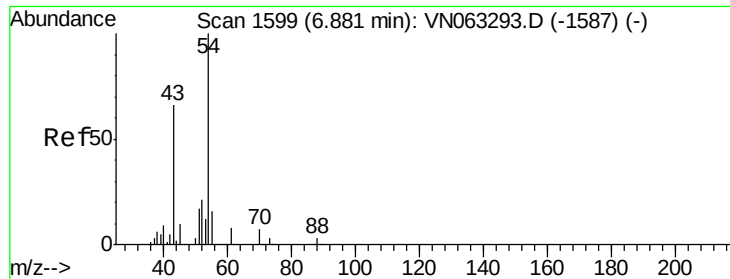


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VNO

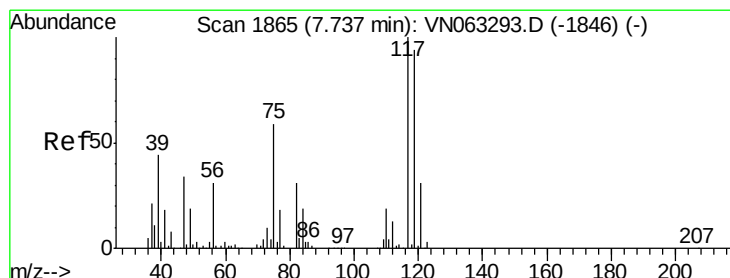
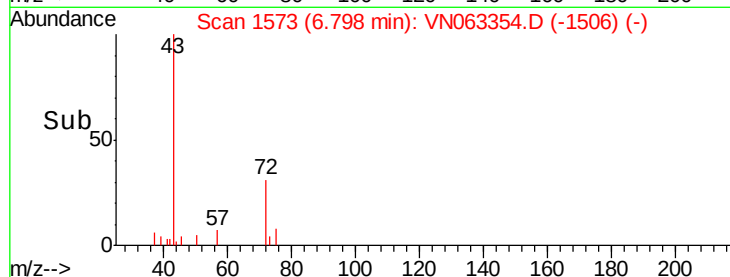
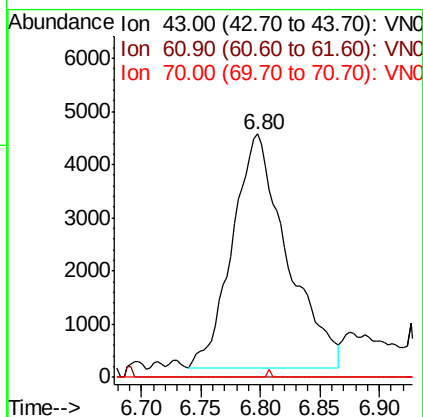
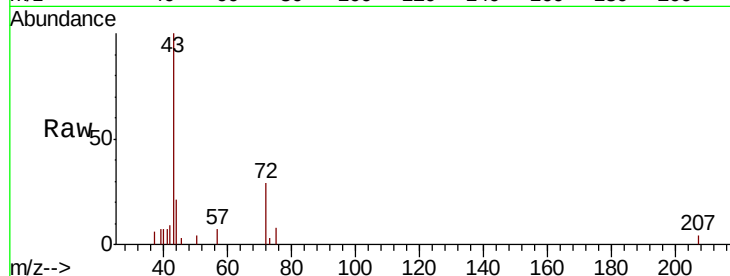




#37
Ethyl Acetate
Concen: 1.915 ug/l
RT: 6.80 min Scan# 1573
Delta R.T. -0.08 min
Lab File: VN063354.D
Acq: 14 Sep 2020 20:06

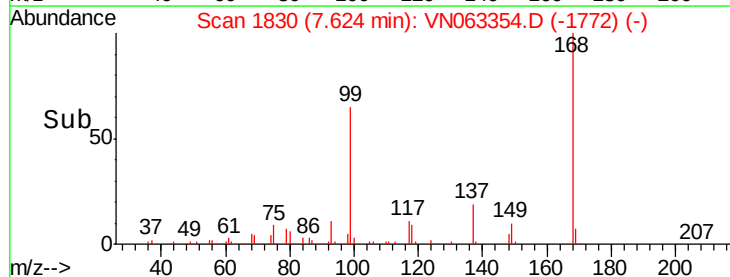
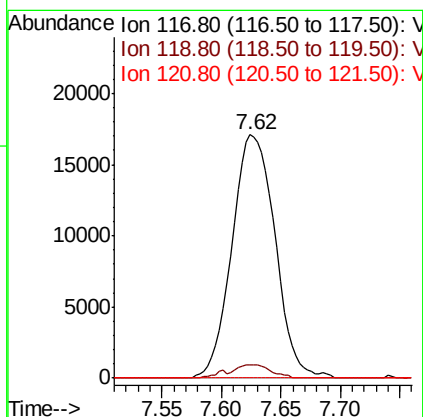
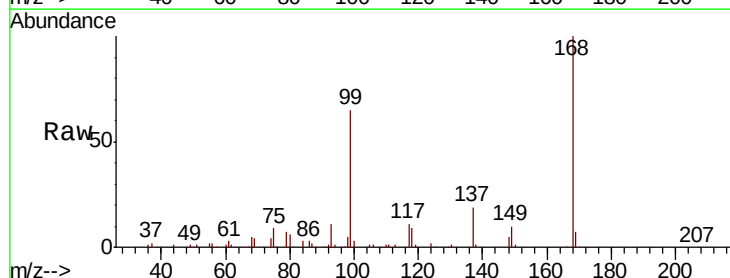
Instrument :
MSVOA_N
ClientSampleId :
2020-09-11-TB01

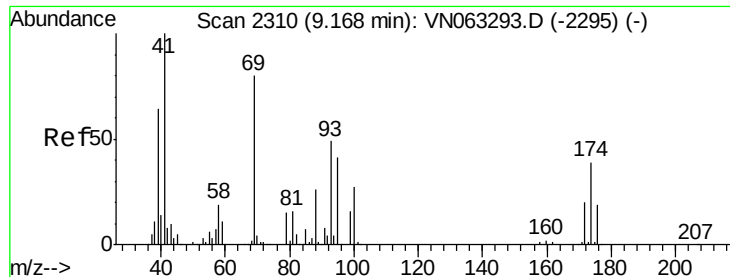
Tot Ion: 43 Resp: 14049
Ion Ratio Lower Upper
43 100
61 0.0 10.1 15.1#
70 0.2 7.4 11.2#



#38
Carbon Tetrachloride
Concen: 5.845 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. -0.11 min
Lab File: VN063354.D
Acq: 14 Sep 2020 20:06

Tgt Ion: 117 Resp: 42906
Ion Ratio Lower Upper
117 100
119 5.6 75.3 112.9#
121 0.0 24.6 37.0#

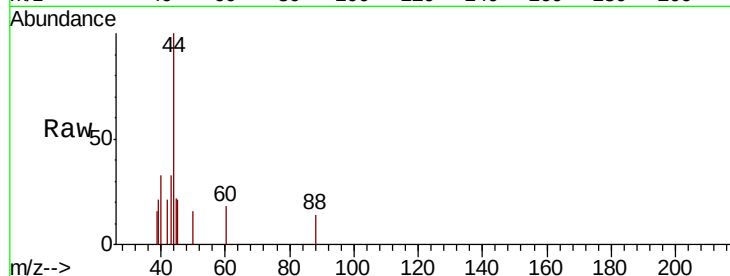




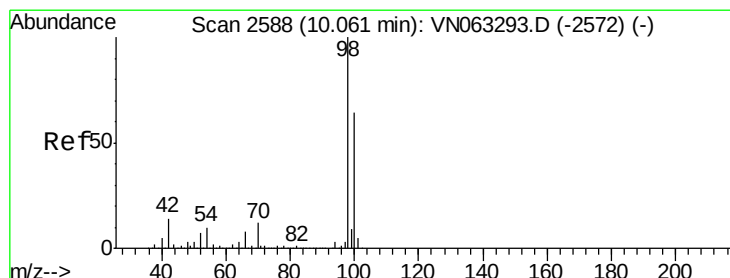
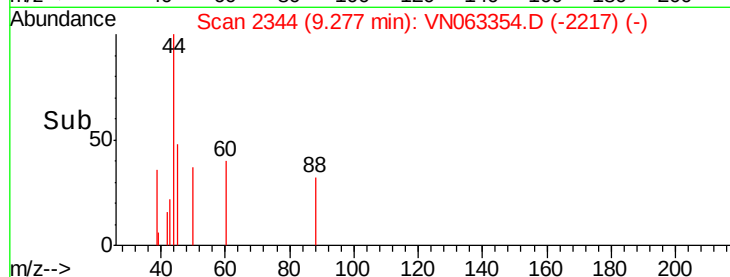
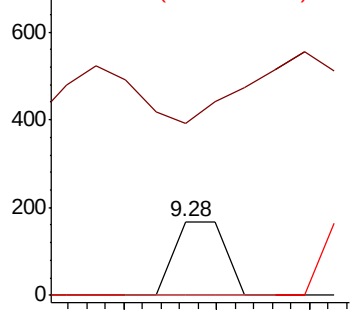
#49
1,4-Dioxane
Concen: 0.697 ug/l
RT: 9.28 min Scan# 2344
Delta R.T. 0.11 min
Lab File: VN063354.D
Acq: 14 Sep 2020 20:06

Instrument :
MSVOA_N
ClientSampleId :
2020-09-11-TB01

Tot Ion: 88 Resp: 64
Ion Ratio Lower Upper
88 100
43 384.4 30.5 45.7#
58 0.0 58.9 88.3#

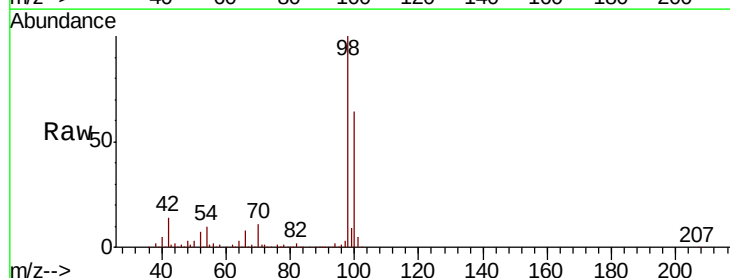


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

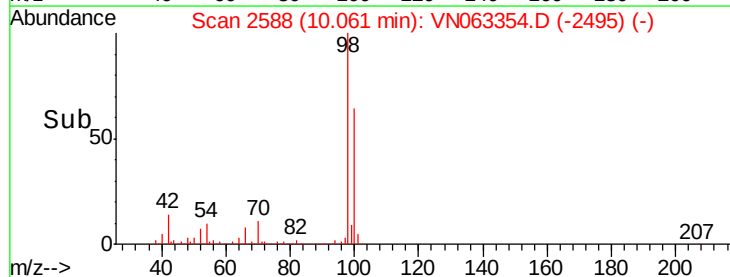
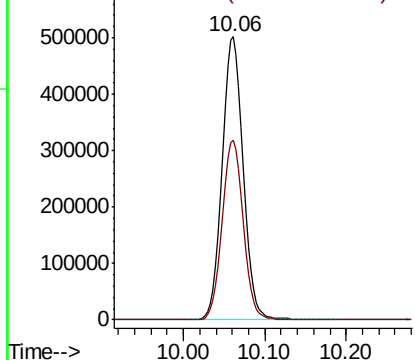


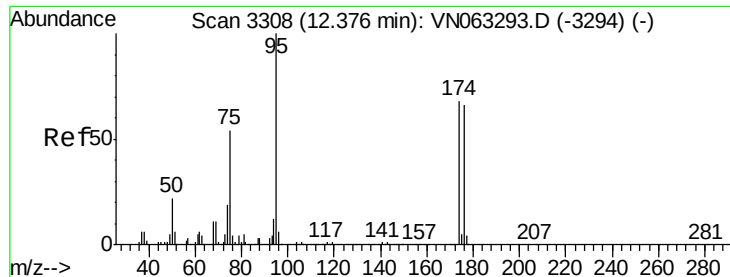
#50
Toluene-d8
Concen: 51.311 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. -0.00 min
Lab File: VN063354.D
Acq: 14 Sep 2020 20:06

Tgt Ion: 98 Resp: 920468
Ion Ratio Lower Upper
98 100
100 63.8 50.7 76.1



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

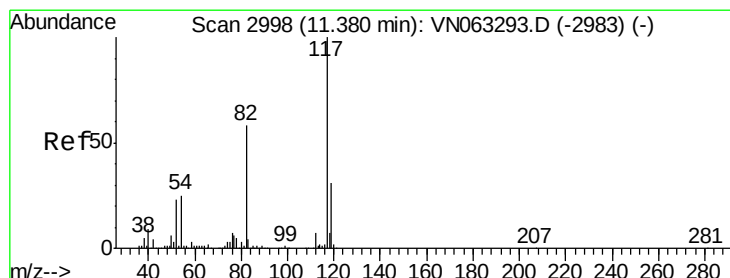
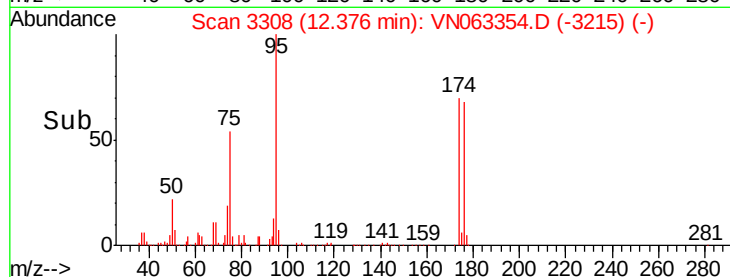
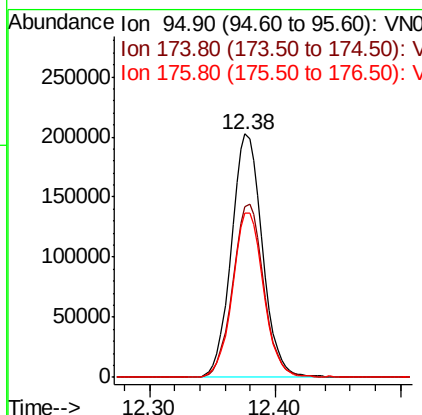
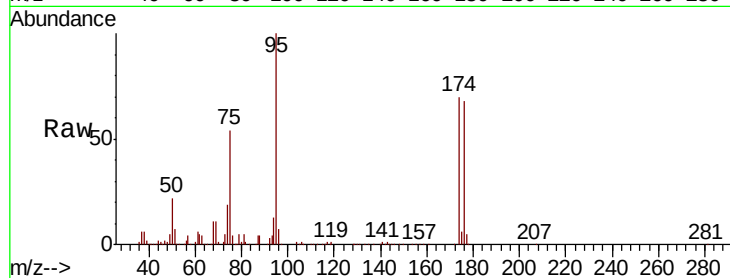




#62
4-Bromofluorobenzene
Concen: 52.346 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN063354.D
Acq: 14 Sep 2020 20:06

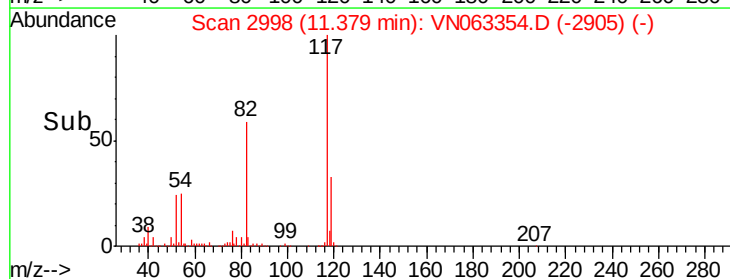
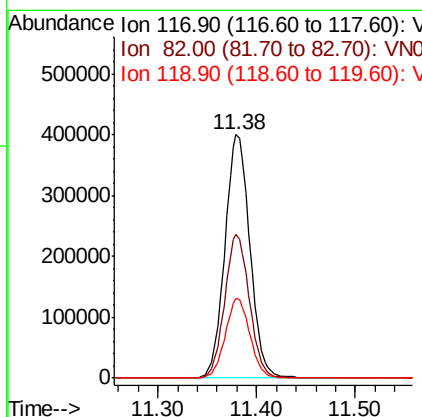
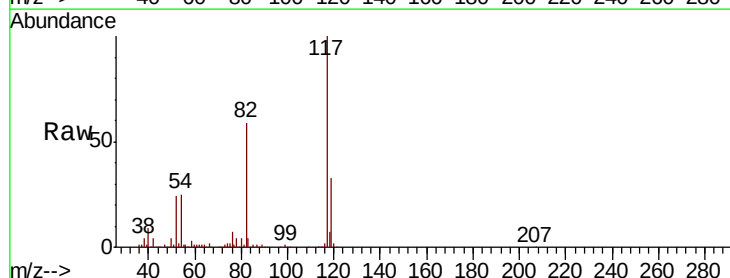
Instrument :
MSVOA_N
ClientSampleId :
2020-09-11-TB01

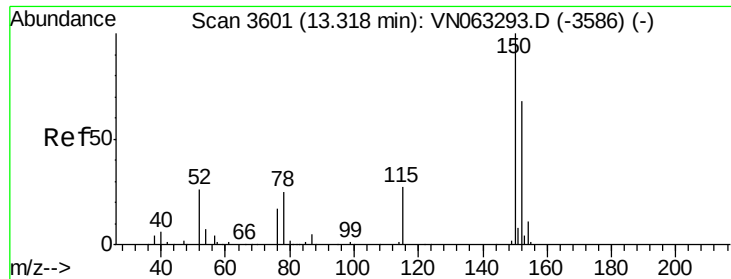
Tot Ion: 95 Resp: 346837
Ion Ratio Lower Upper
95 100
174 71.2 0.0 136.6
176 67.9 0.0 132.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063354.D
Acq: 14 Sep 2020 20:06

Tgt Ion: 117 Resp: 712724
Ion Ratio Lower Upper
117 100
82 59.1 46.4 69.6
119 32.7 24.8 37.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063354.D

Acq: 14 Sep 2020 20:06

Instrument :

MSVOA_N

ClientSampleId :

2020-09-11-TB01

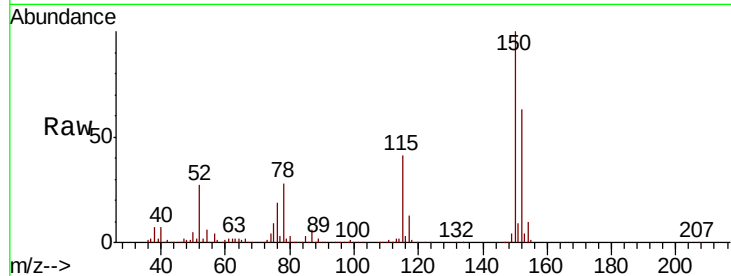
Tot Ion:152 Resp: 290755

Ion Ratio Lower Upper

152 100

115 64.0 31.5 94.5

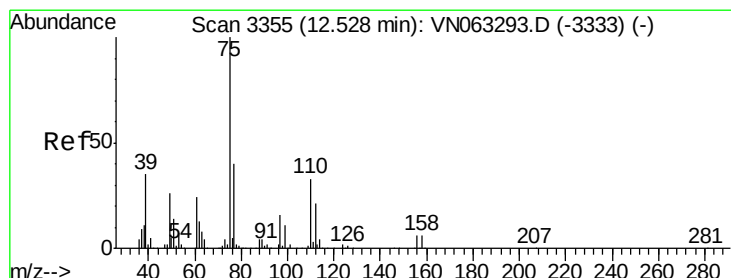
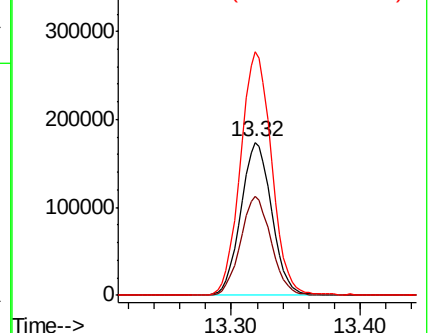
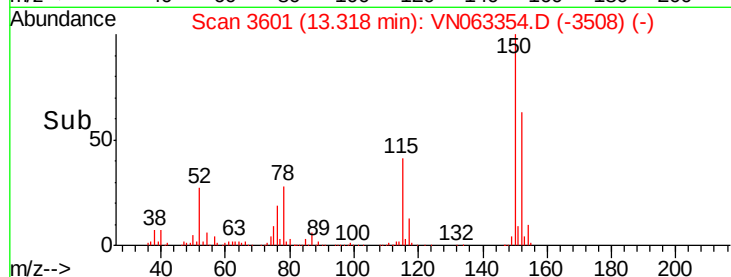
150 160.1 0.0 344.0



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: 29.177 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063354.D

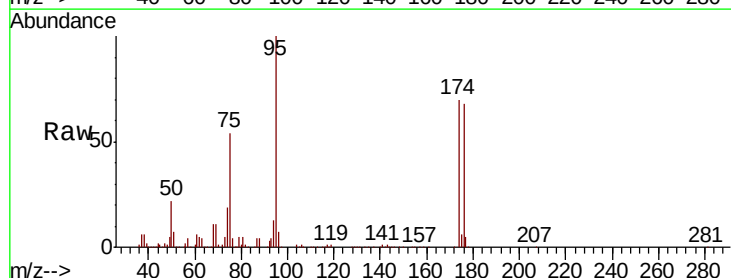
Acq: 14 Sep 2020 20:06

Tgt Ion: 75 Resp: 187157

Ion Ratio Lower Upper

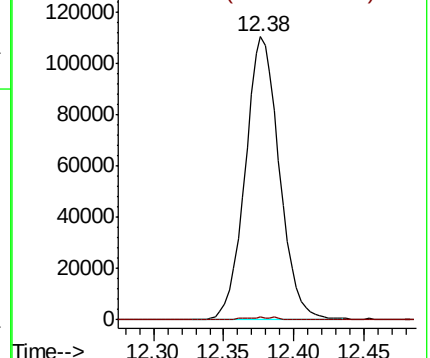
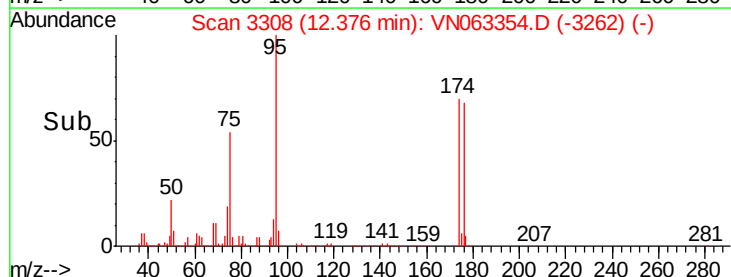
75 100

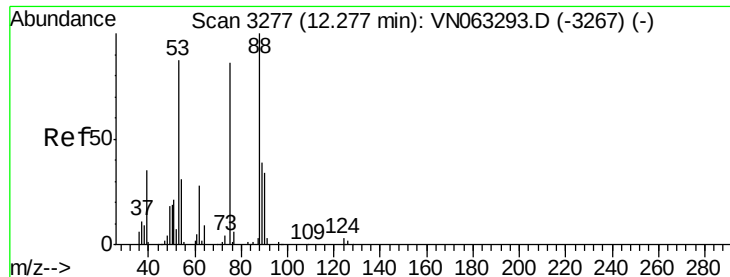
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 78.394 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063354.D

Acq: 14 Sep 2020 20:06

Instrument :

MSVOA_N

ClientSampleId :

2020-09-11-TB01

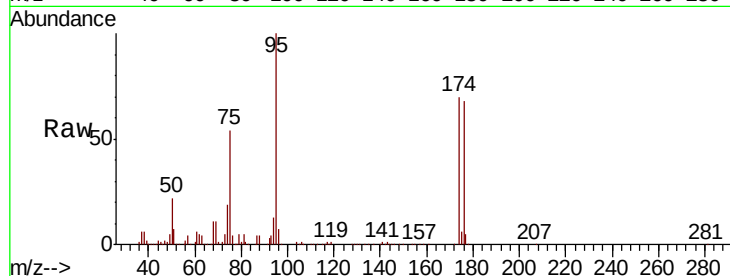
Tot Ion: 75 Resp: 187157

Ion Ratio Lower Upper

75 100

53 0.1 81.8 122.8#

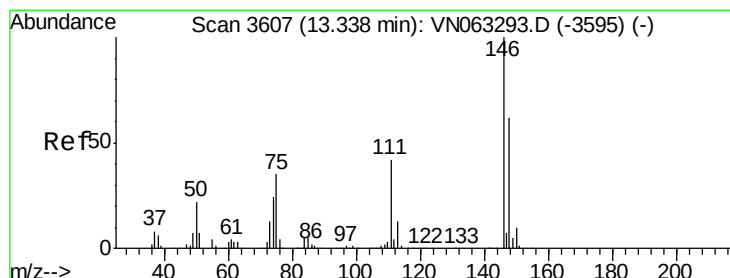
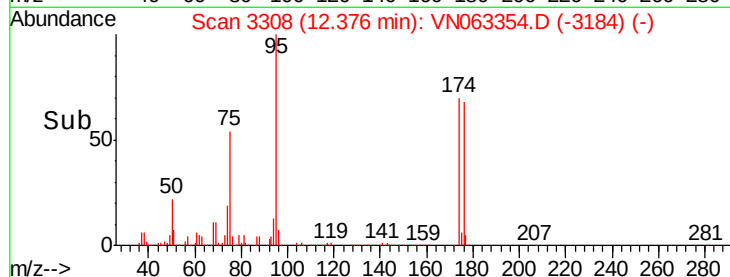
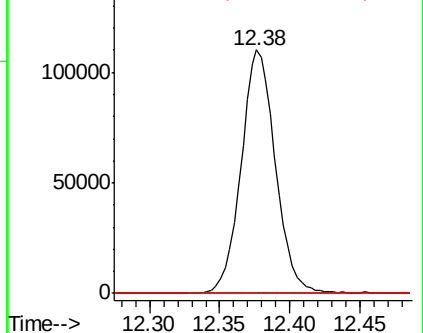
89 0.0 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VN063354.D (-3184) (-)

Ion 53.00 (52.70 to 53.70): VN063354.D (-3184) (-)

Ion 88.90 (88.60 to 89.60): VN063354.D (-3184) (-)



#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.34 min Scan# 3607

Delta R.T. 0.00 min

Lab File: VN063354.D

Acq: 14 Sep 2020 20:06

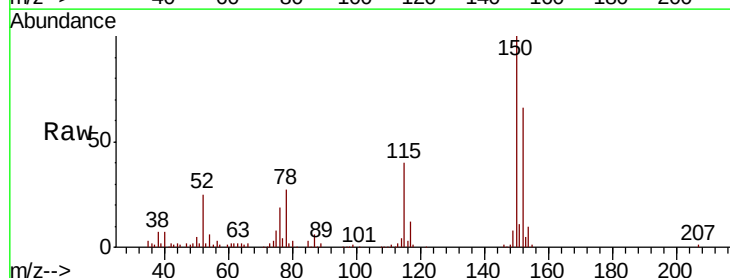
Tgt Ion: 146 Resp: 782

Ion Ratio Lower Upper

146 100

111 0.0 21.3 64.0#

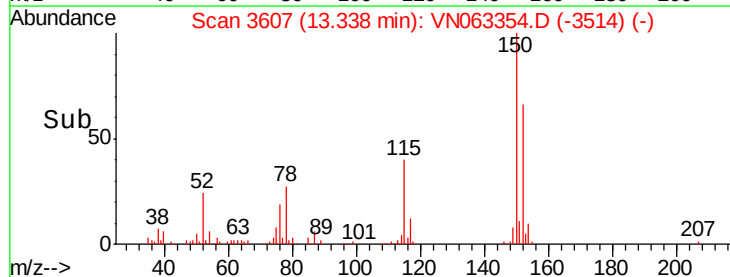
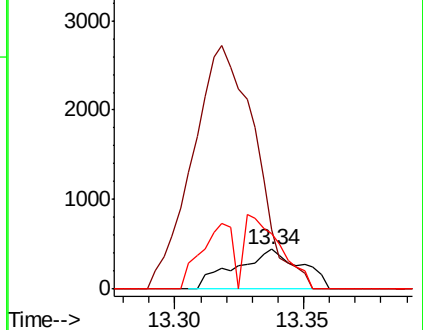
148 103.1 31.5 94.5#

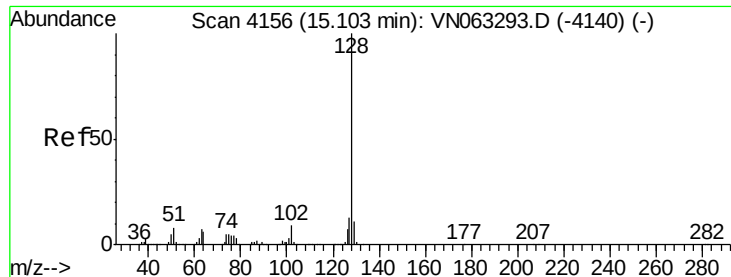


Abundance Ion 145.90 (145.60 to 146.60): VN063354.D (-3514) (-)

Ion 110.90 (110.60 to 111.60): VN063354.D (-3514) (-)

Ion 147.90 (147.60 to 148.60): VN063354.D (-3514) (-)





#95

Naphthalene

Concen: Below Cal

RT: 15.11 min Scan# 4157

Delta R.T. 0.00 min

Lab File: VN063354.D

Acq: 14 Sep 2020 20:06

Instrument :

MSVOA_N

ClientSampled :

2020-09-11-TB01

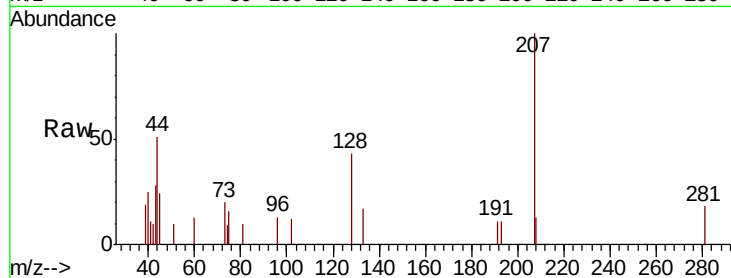
Tot Ion:128 Resp: 1680

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

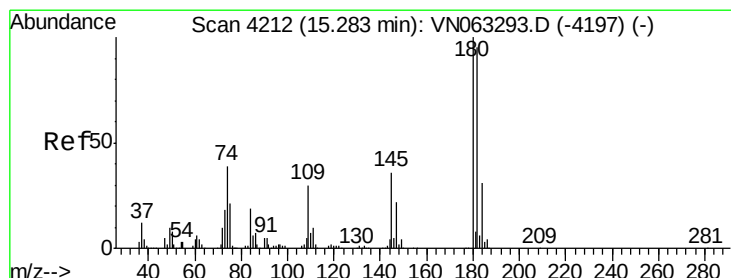
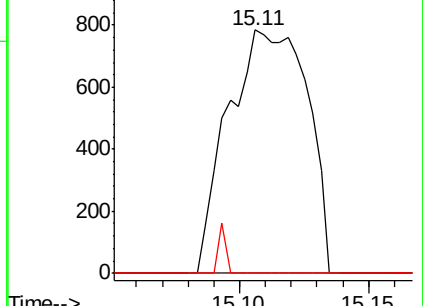
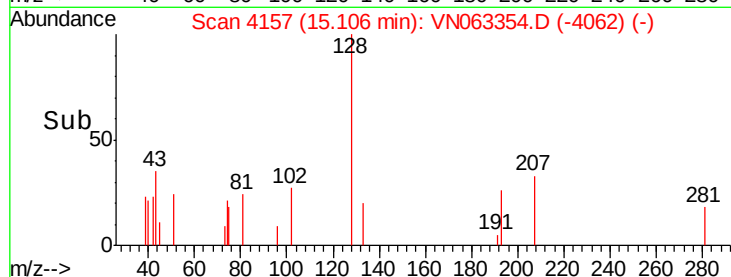
129 1.8 8.6 12.8#



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



#96

1,2,3-Trichlorobenzene

Concen: Below Cal

RT: 15.29 min Scan# 4215

Delta R.T. 0.01 min

Lab File: VN063354.D

Acq: 14 Sep 2020 20:06

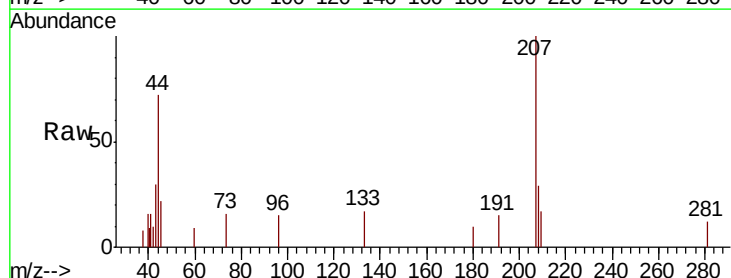
Tgt Ion:180 Resp: 36

Ion Ratio Lower Upper

180 100

182 0.0 47.4 142.3#

145 0.0 17.2 51.6#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

