

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091120\
 Data File : VN063315.D
 Acq On : 11 Sep 2020 15:30
 Operator : JC/MD
 Sample : L3988-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-MW127S-20200908

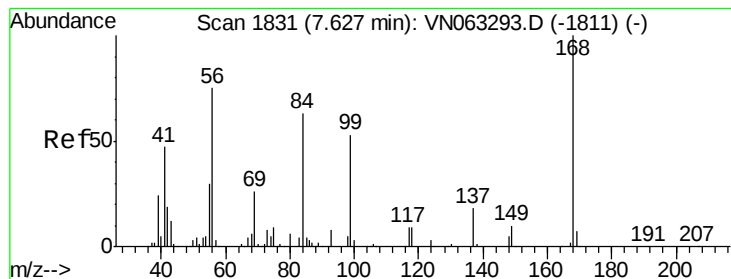
Quant Time: Sep 12 00:41:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091020W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 11 06:02:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	383058	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	715234	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	700409	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	287558	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	298514	49.60	ug/l	0.00
Spiked Amount			Recovery	=	99.20%	
35) Dibromofluoromethane	7.55	113	226771	49.15	ug/l	0.00
Spiked Amount			Recovery	=	98.30%	
50) Toluene-d8	10.06	98	921435	52.11	ug/l	0.00
Spiked Amount			Recovery	=	104.22%	
62) 4-Bromofluorobenzene	12.38	95	346565	53.06	ug/l	0.00
Spiked Amount			Recovery	=	106.12%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	2503	Below Cal		90
13) Acrolein	3.61	56	63	32.584	ug/l #	1
16) Acetone	3.78	43	2756	1.326	ug/l	96
17) Carbon Disulfide	4.00	76	144	Below Cal	#	75
20) Methylene Chloride	4.49	84	61	Below Cal	#	1
31) Cyclohexane	7.63	56	11156	1.322	ug/l #	20
36) 1,1-Dichloropropene	7.63	75	34260	4.660	ug/l #	50
38) Carbon Tetrachloride	7.63	117	41245	5.700	ug/l #	16
49) 1,4-Dioxane	9.17	88	29	0.320	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	188654	29.738	ug/l #	100
77) Bromobenzene	12.44	156	1404	0.263	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.38	75	188654	79.899	ug/l #	9
88) 1,4-Dichlorobenzene	13.34	146	2137	Below Cal	#	66
95) Naphthalene	15.11	128	12643	0.219	ug/l	97
96) 1,2,3-Trichlorobenzene	15.28	180	70	Below Cal	#	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.00 min

Lab File: VN063315.D

Acq: 11 Sep 2020 15:30

Instrument :

MSVOA_N

ClientSampleId :

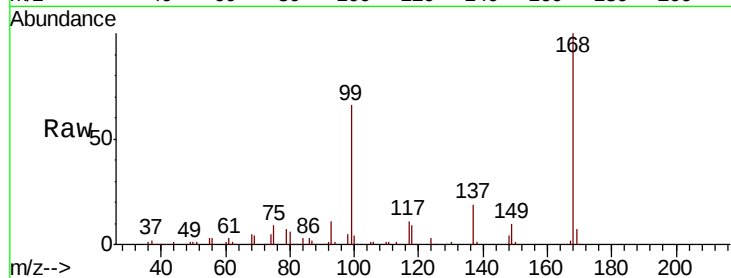
SA-MW127S-20200908

Tot Ion:168 Resp: 383058

Ion Ratio Lower Upper

168 100

99 66.2 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

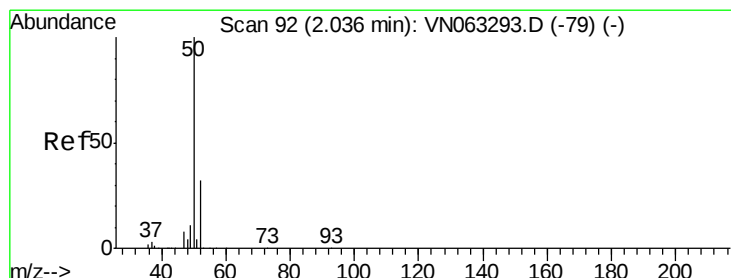
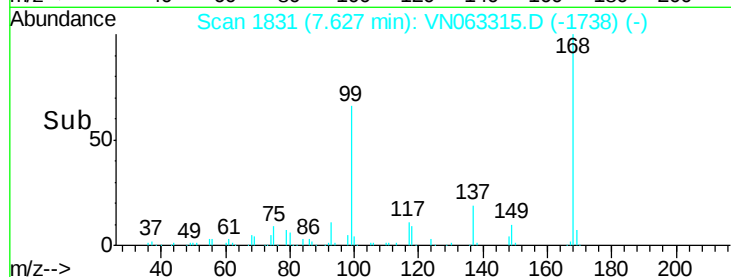
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 91

Delta R.T. -0.00 min

Lab File: VN063315.D

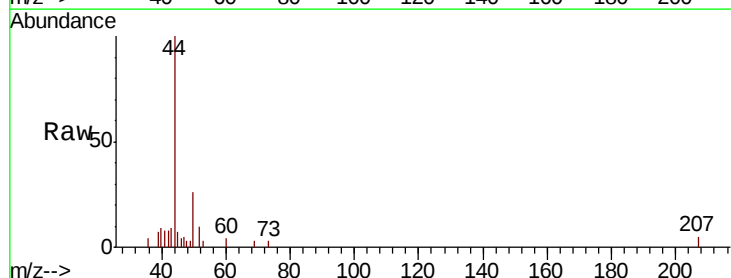
Acq: 11 Sep 2020 15:30

Tgt Ion: 50 Resp: 2503

Ion Ratio Lower Upper

50 100

52 37.3 25.4 38.2



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.03

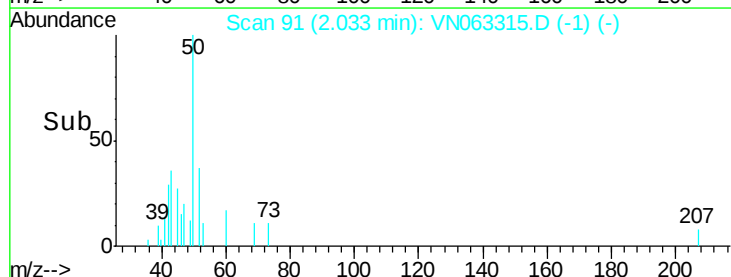
1500

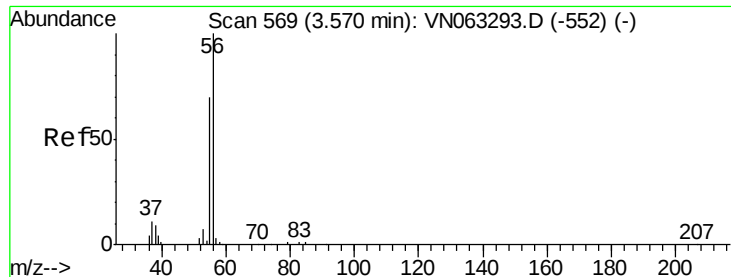
1000

500

0

Time--> 2.00 2.05





#13

Acrolein

Concen: 32.584 ug/l

RT: 3.61 min Scan# 581

Delta R.T. 0.04 min

Lab File: VN063315.D

Acq: 11 Sep 2020 15:30

Instrument :

MSVOA_N

ClientSampleId :

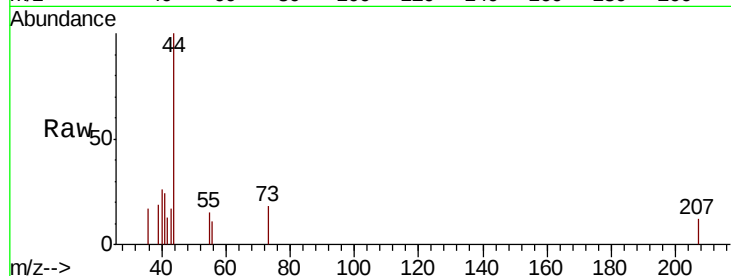
SA-MW127S-20200908

Tot Ion: 56 Resp: 63

Ion Ratio Lower Upper

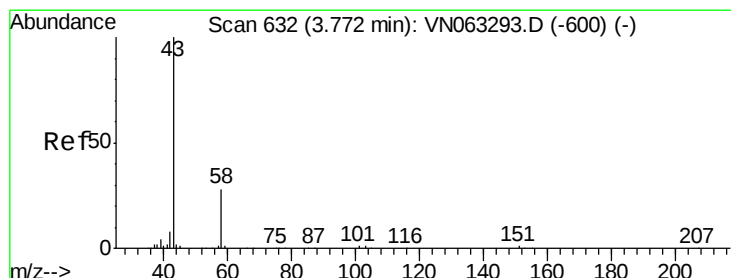
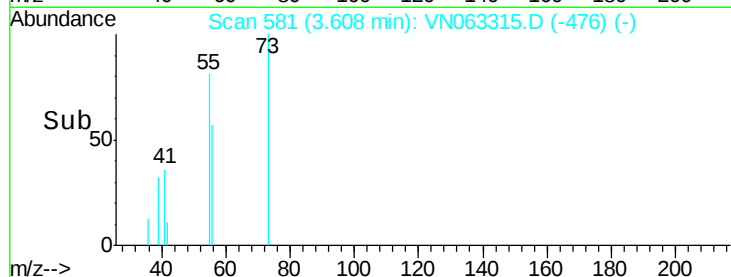
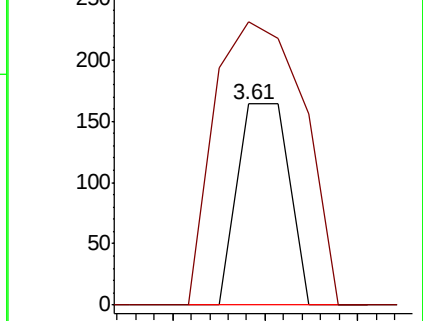
56 100

55 244.4 57.2 85.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 1.326 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063315.D

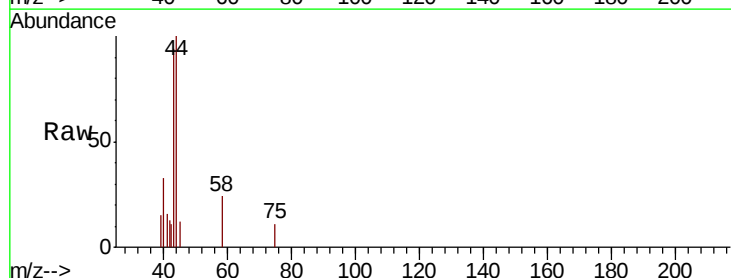
Acq: 11 Sep 2020 15:30

Tgt Ion: 43 Resp: 2756

Ion Ratio Lower Upper

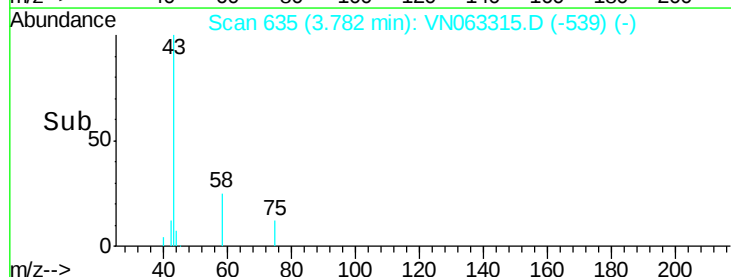
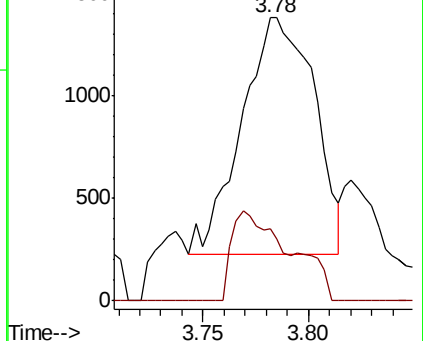
43 100

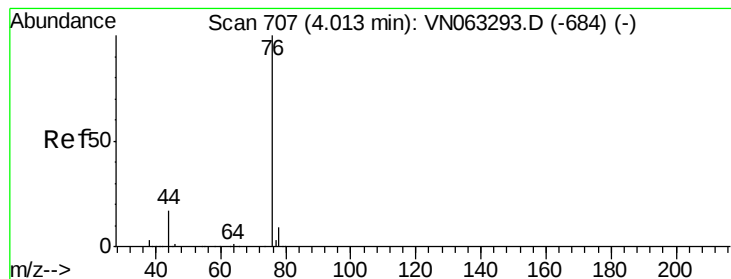
58 30.5 22.6 34.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.00 min Scan# 703

Delta R.T. -0.01 min

Lab File: VN063315.D

Acq: 11 Sep 2020 15:30

Instrument :

MSVOA_N

ClientSampleId :

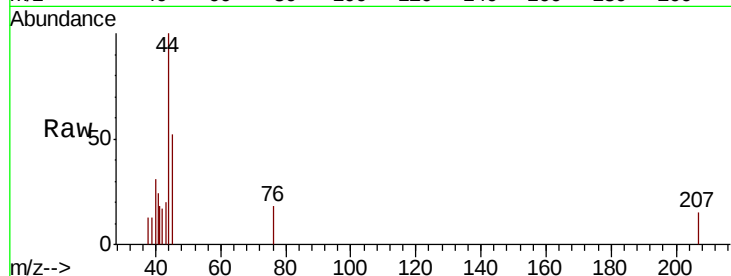
SA-MW127S-20200908

Tot Ion: 76 Resp: 144

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VNC

Ion 77.90 (77.60 to 78.60): VNC

4.00

250

200

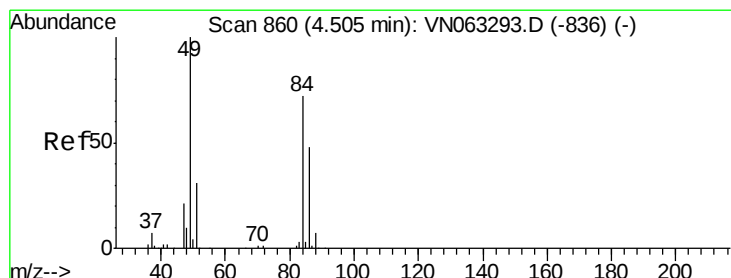
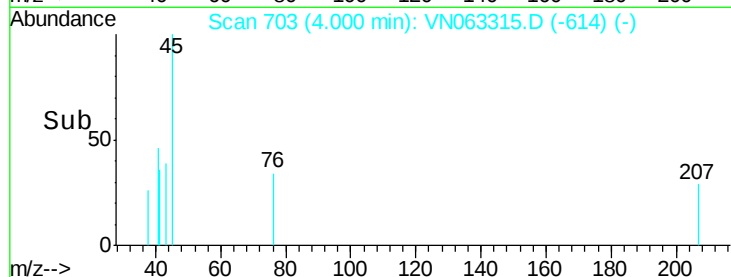
150

100

50

0

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 4.49 min Scan# 856

Delta R.T. -0.01 min

Lab File: VN063315.D

Acq: 11 Sep 2020 15:30

Tgt Ion: 84 Resp: 61

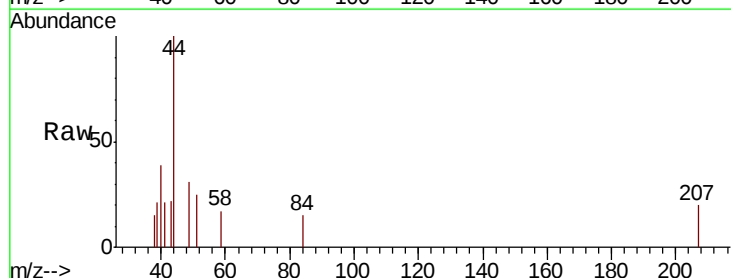
Ion Ratio Lower Upper

84 100

49 0.0 111.1 166.7#

51 170.7 34.3 51.5#

86 0.0 52.9 79.3#



Abundance Ion 83.90 (83.60 to 84.60): VNC

Ion 48.90 (48.60 to 49.60): VNC

Ion 50.90 (50.60 to 51.60): VNC

Ion 85.90 (85.60 to 86.60): VNC

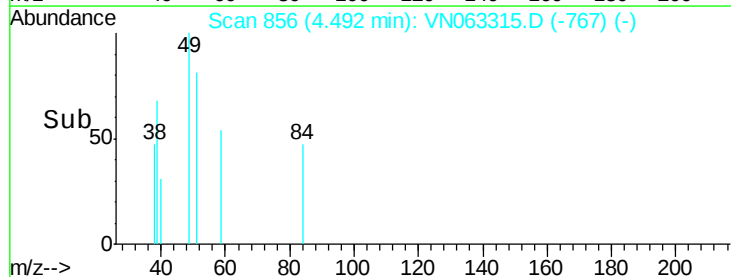
600

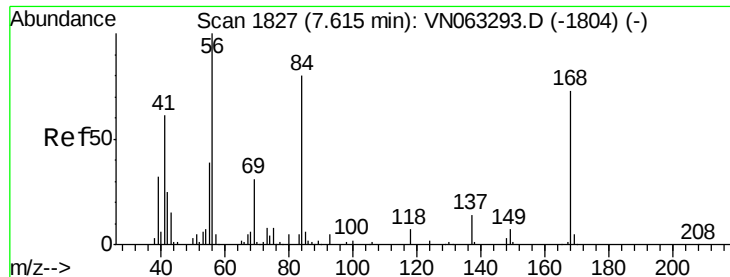
400

200

0

Time-->

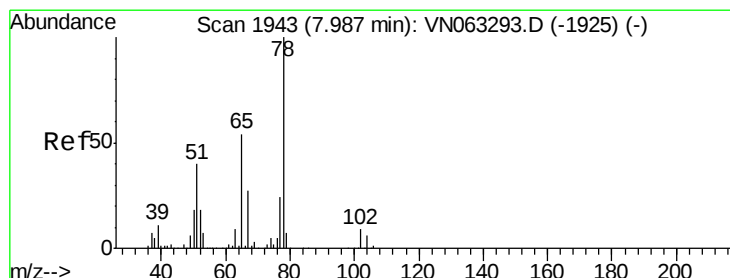
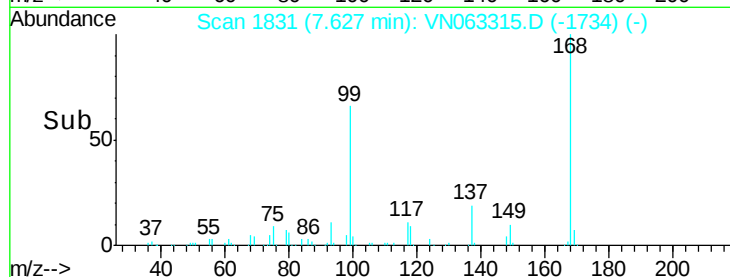
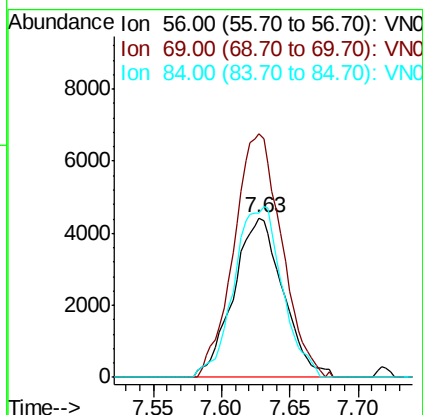
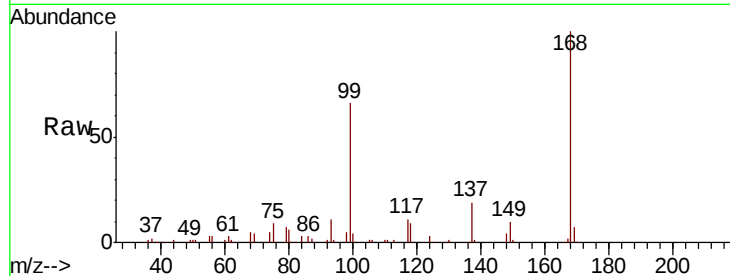




#31
Cyclohexane
Concen: 1.322 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN063315.D
Acq: 11 Sep 2020 15:30

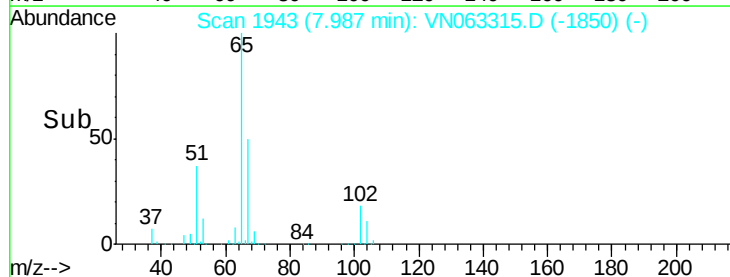
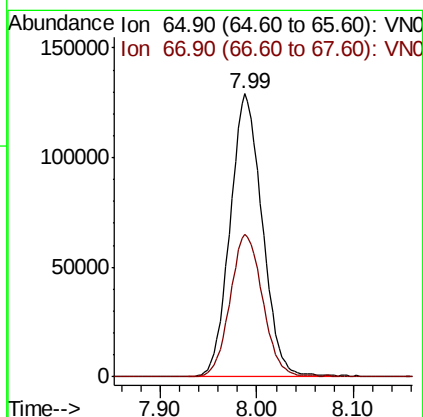
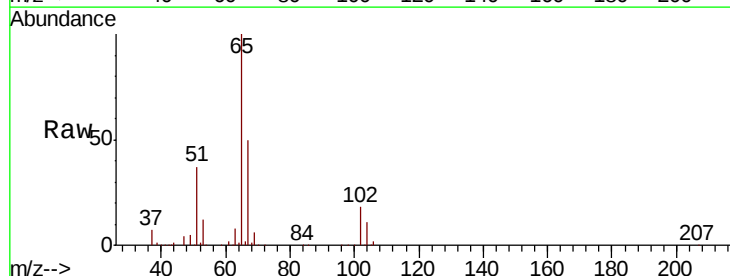
Instrument :
MSVOA_N
ClientSampleId :
SA-MW127S-20200908

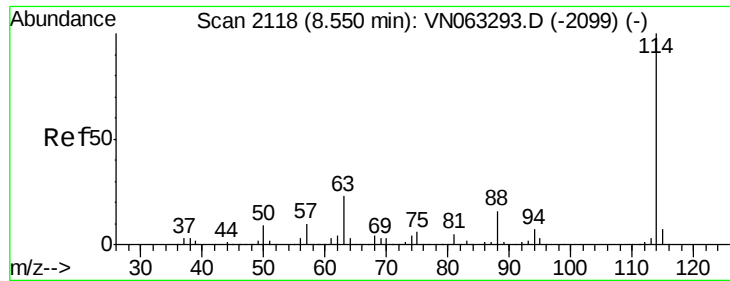
Tot Ion: 56 Resp: 11156
Ion Ratio Lower Upper
56 100
69 152.7 25.1 37.7#
84 103.3 64.2 96.2#



#33
1,2-Dichloroethane-d4
Concen: 49.601 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN063315.D
Acq: 11 Sep 2020 15:30

Tgt Ion: 65 Resp: 298514
Ion Ratio Lower Upper
65 100
67 50.9 0.0 104.6

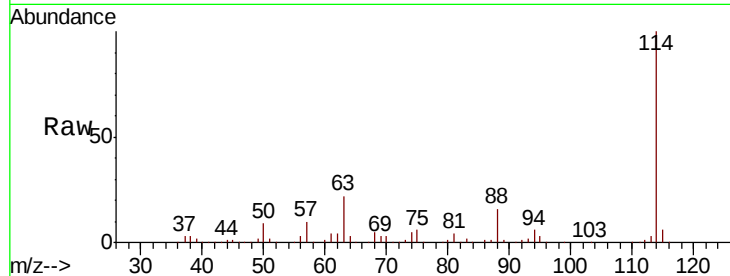




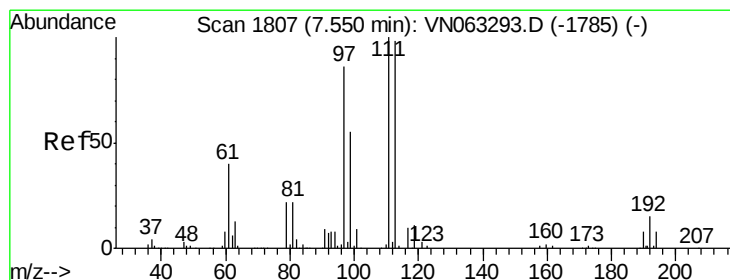
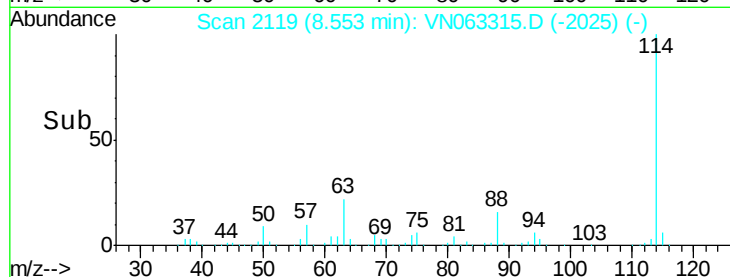
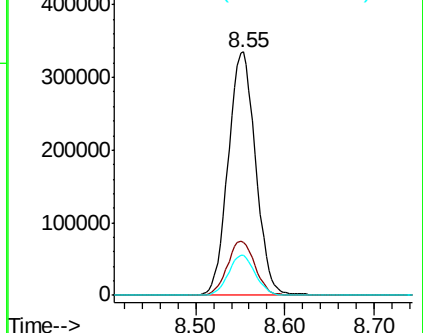
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN063315.D
 Acq: 11 Sep 2020 15:30

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-MW127S-20200908

Tot Ion:114 Resp: 715234
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 46.0
 88 16.4 0.0 32.8

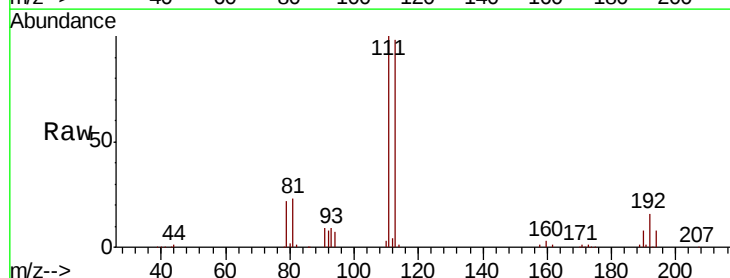


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

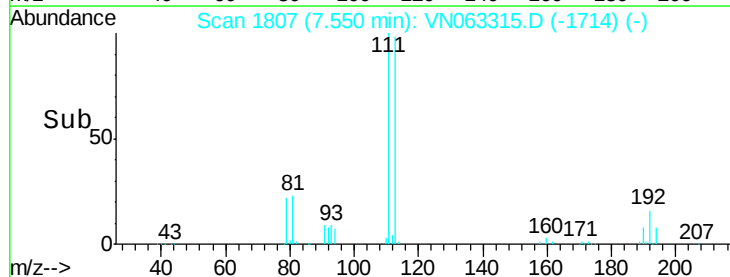
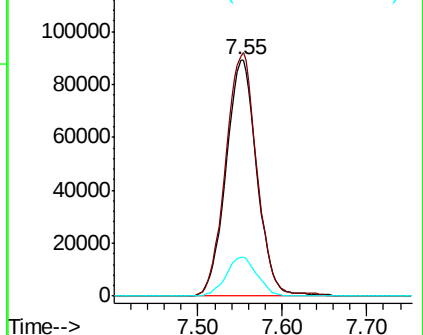


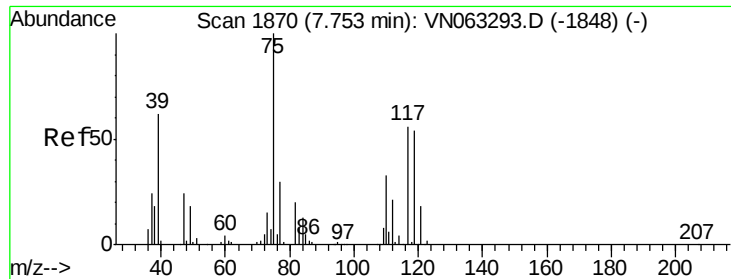
#35
 Dibromofluoromethane
 Concen: 49.147 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. -0.00 min
 Lab File: VN063315.D
 Acq: 11 Sep 2020 15:30

Tgt Ion:113 Resp: 226771
 Ion Ratio Lower Upper
 113 100
 111 103.9 82.2 123.2
 192 16.6 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

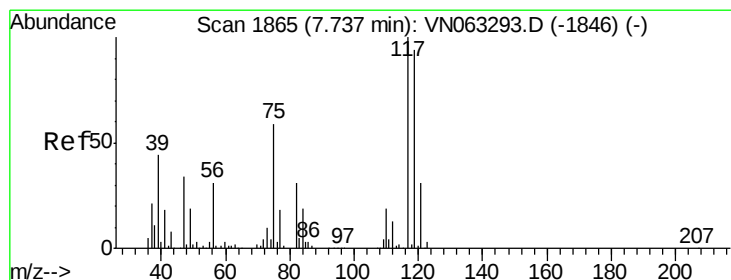
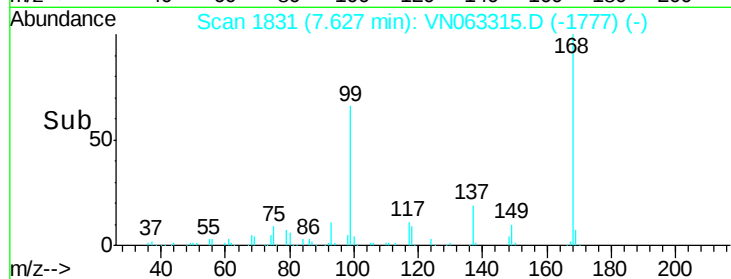
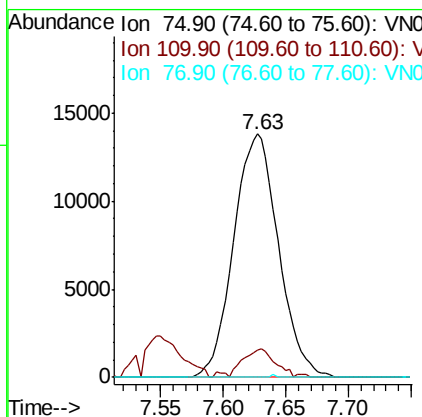
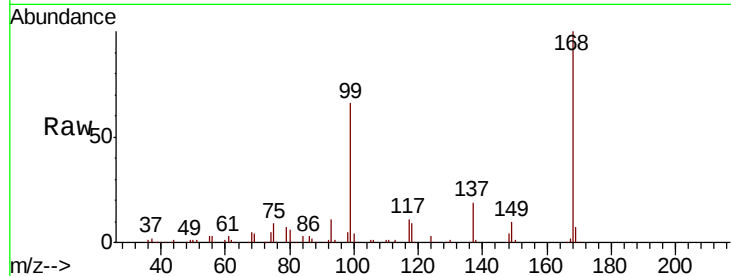




#36
 1,1-Dichloropropene
 Concen: 4.660 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063315.D
 Acq: 11 Sep 2020 15:30

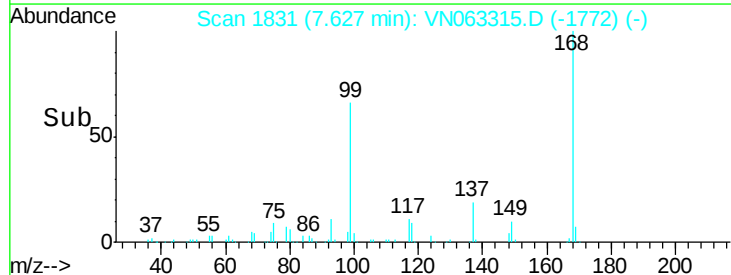
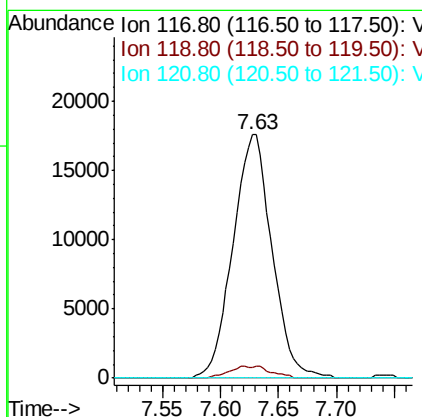
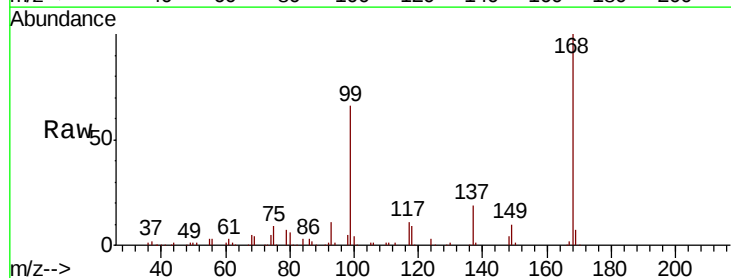
Instrument :
 MSVOA_N
 ClientSampleId :
 SA-MW127S-20200908

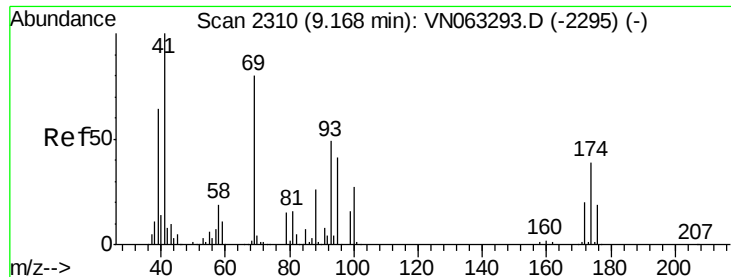
Tot Ion	75	Resp	34260
Ion Ratio	Lower	Upper	
75	100		
110	8.4	16.4	49.4#
77	0.1	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 5.700 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN063315.D
 Acq: 11 Sep 2020 15:30

Tgt Ion	117	Resp	41245
Ion Ratio	Lower	Upper	
117	100		
119	4.4	75.3	112.9#
121	0.0	24.6	37.0#

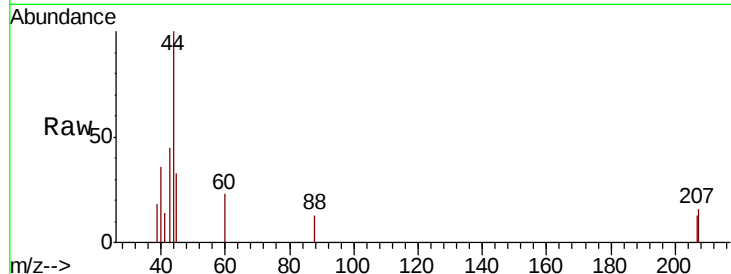




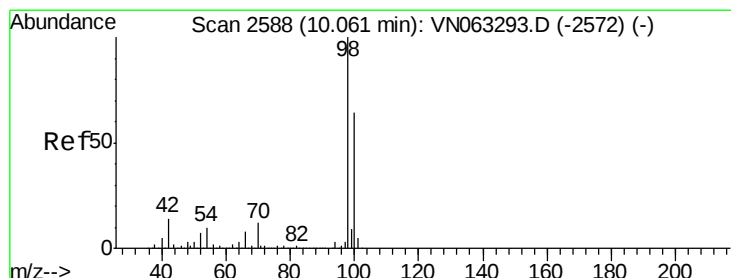
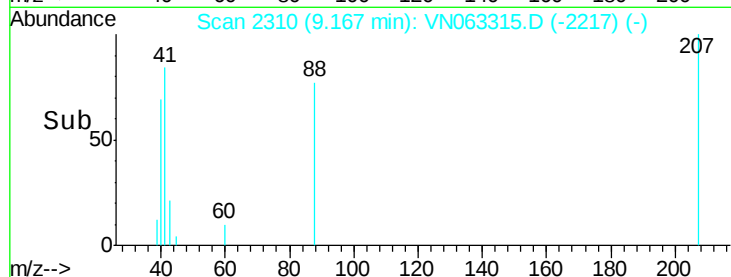
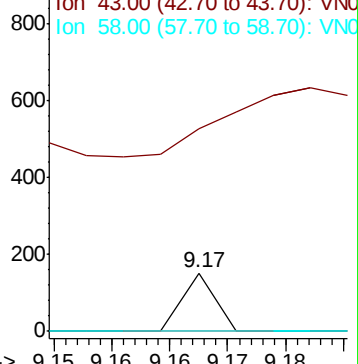
#49
 1,4-Dioxane
 Concen: 0.320 ug/l
 RT: 9.17 min Scan# 2310
 Delta R.T. -0.00 min
 Lab File: VN063315.D
 Acq: 11 Sep 2020 15:30

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-MW127S-20200908

Tot Ion: 88 Resp: 29
 Ion Ratio Lower Upper
 88 100
 43 555.2 30.5 45.7#
 58 0.0 58.9 88.3#

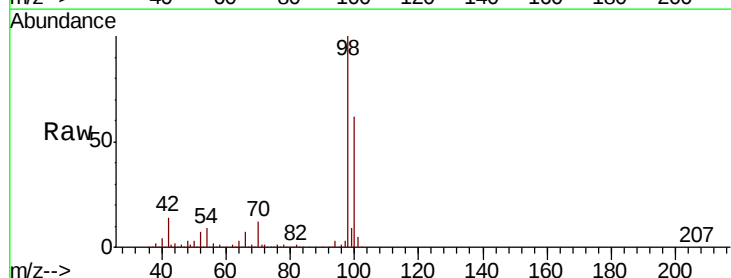


Abundance Ion 88.00 (87.70 to 88.70): VN0
 Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

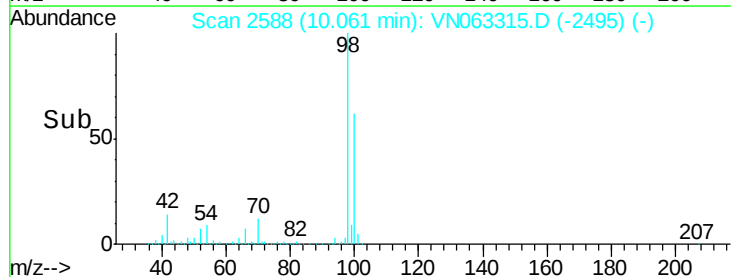
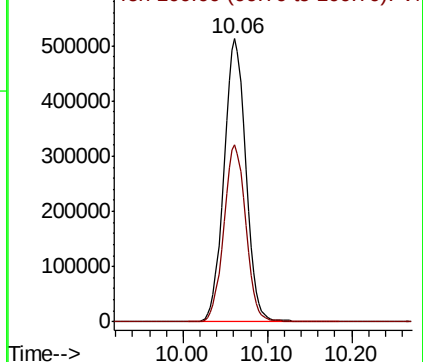


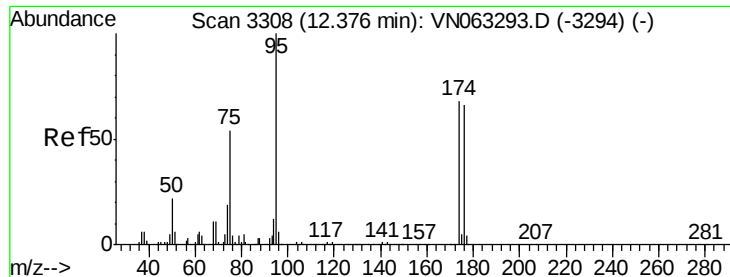
#50
 Toluene-d8
 Concen: 52.110 ug/l
 RT: 10.06 min Scan# 2588
 Delta R.T. -0.00 min
 Lab File: VN063315.D
 Acq: 11 Sep 2020 15:30

Tgt Ion: 98 Resp: 921435
 Ion Ratio Lower Upper
 98 100
 100 62.9 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: 53.064 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063315.D

Acq: 11 Sep 2020 15:30

Instrument :

MSVOA_N

ClientSampleId :

SA-MW127S-20200908

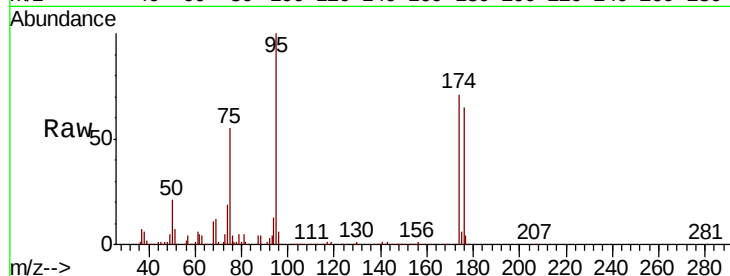
Tot Ion: 95 Resp: 346565

Ion Ratio Lower Upper

95 100

174 70.3 0.0 136.6

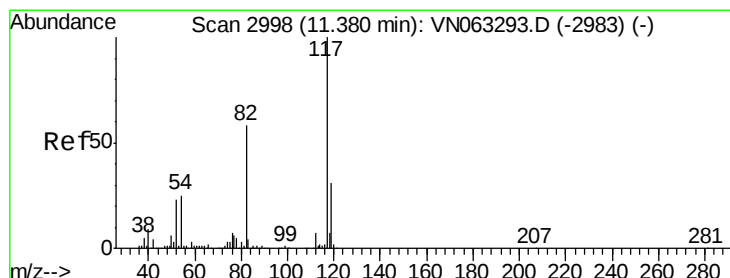
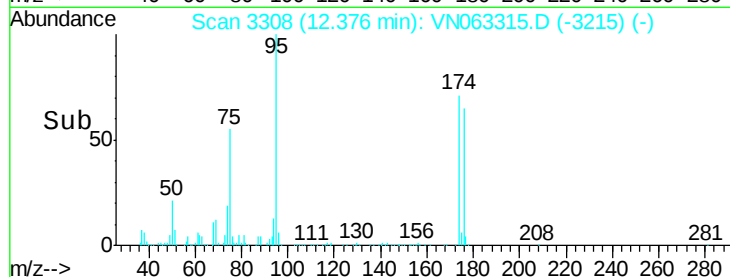
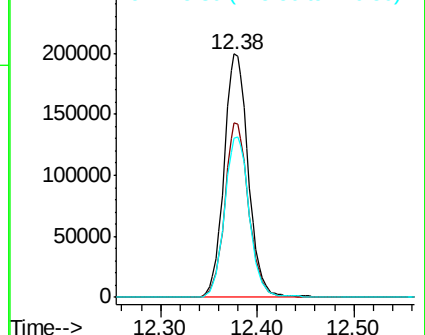
176 67.2 0.0 132.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2999

Delta R.T. 0.00 min

Lab File: VN063315.D

Acq: 11 Sep 2020 15:30

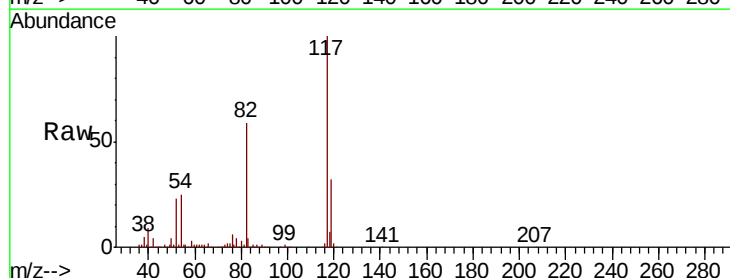
Tgt Ion: 117 Resp: 700409

Ion Ratio Lower Upper

117 100

82 59.2 46.4 69.6

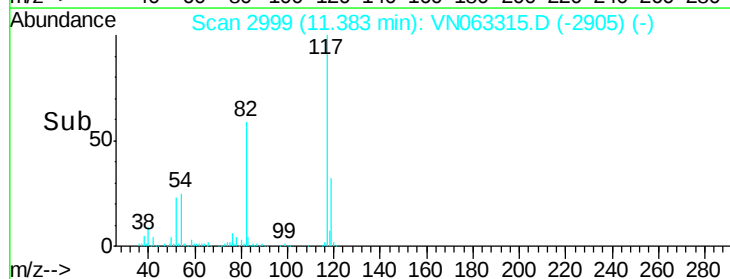
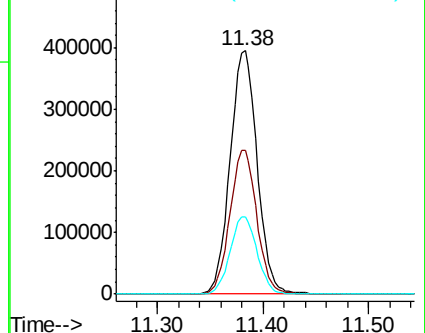
119 31.6 24.8 37.2

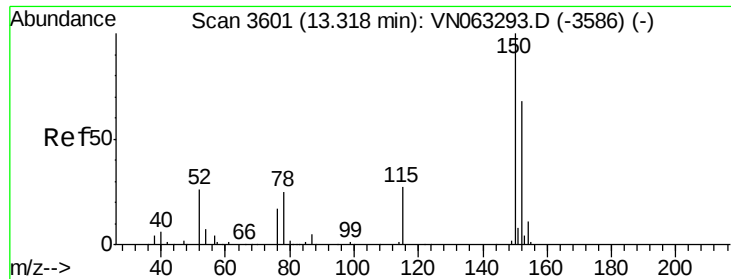


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3602

Delta R.T. 0.00 min

Lab File: VN063315.D

Acq: 11 Sep 2020 15:30

Instrument :

MSVOA_N

ClientSampleId :

SA-MW127S-20200908

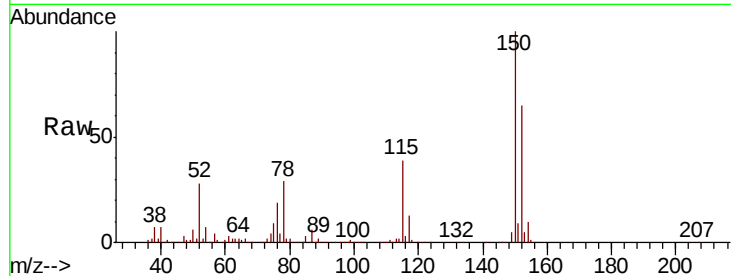
Tot Ion:152 Resp: 287558

Ion Ratio Lower Upper

152 100

115 61.3 31.5 94.5

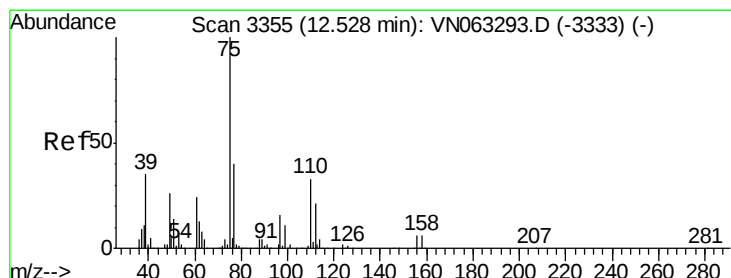
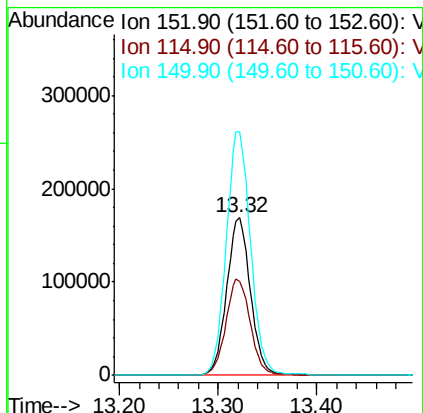
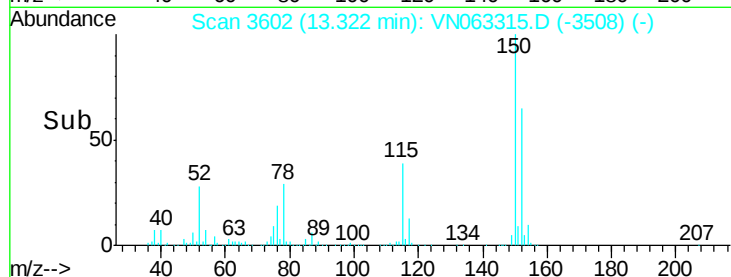
150 156.7 0.0 344.0



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: 29.738 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063315.D

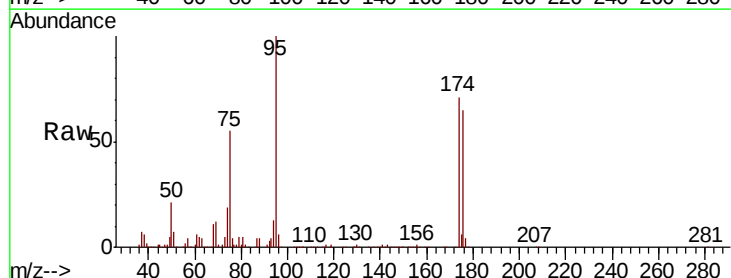
Acq: 11 Sep 2020 15:30

Tgt Ion: 75 Resp: 188654

Ion Ratio Lower Upper

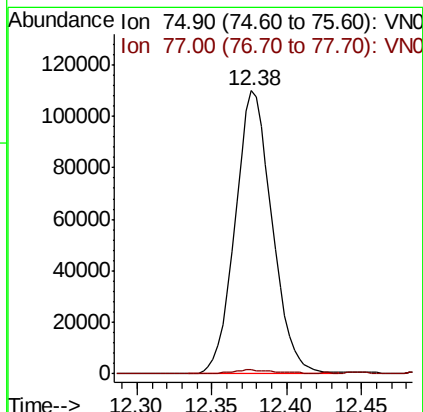
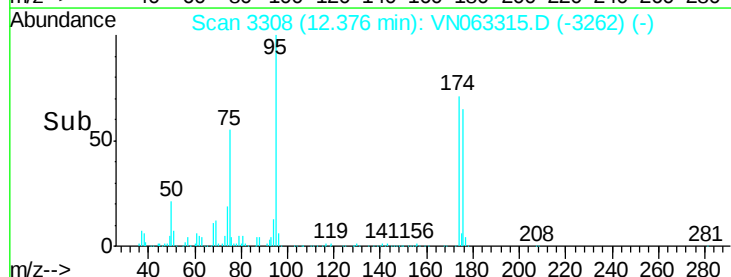
75 100

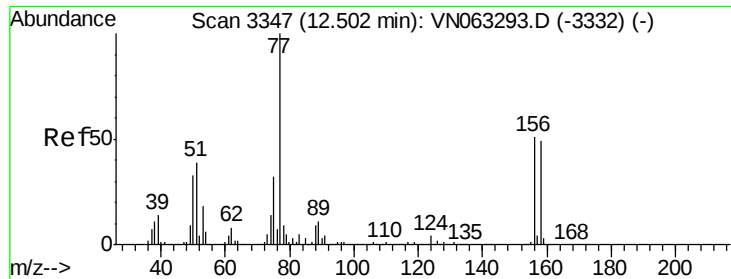
77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#77

Bromobenzene

Concen: 0.263 ug/l

RT: 12.44 min Scan# 3328

Delta R.T. -0.06 min

Lab File: VN063315.D

Acq: 11 Sep 2020 15:30

Instrument :

MSVOA_N

ClientSampleId :

SA-MW127S-20200908

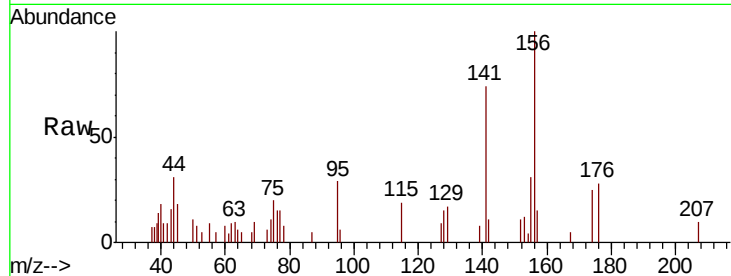
Tot Ion:156 Resp: 1404

Ion Ratio Lower Upper

156 100

77 33.4 117.4 352.2#

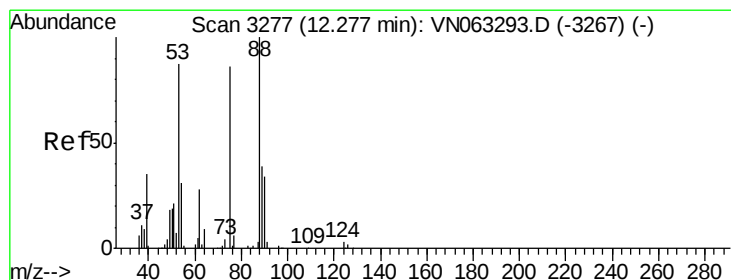
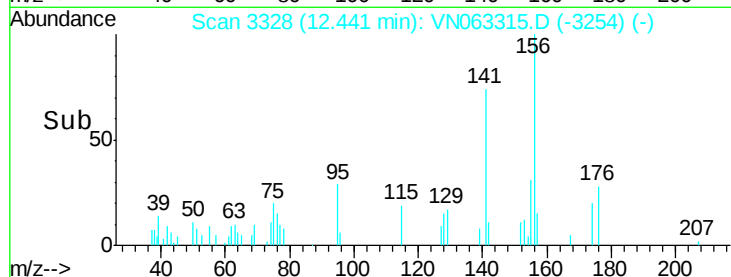
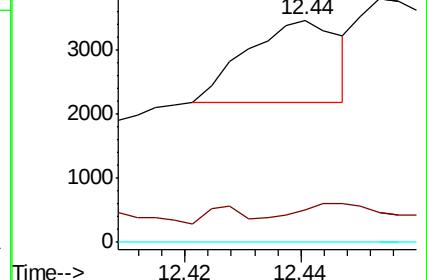
158 0.0 48.8 146.4#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 79.899 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063315.D

Acq: 11 Sep 2020 15:30

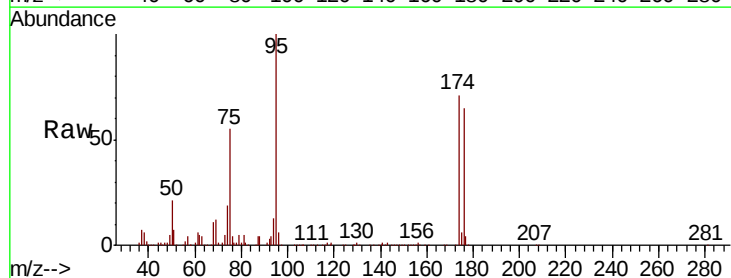
Tgt Ion: 75 Resp: 188654

Ion Ratio Lower Upper

75 100

53 0.0 81.8 122.8#

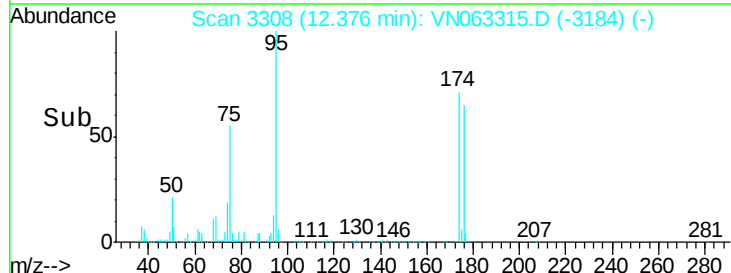
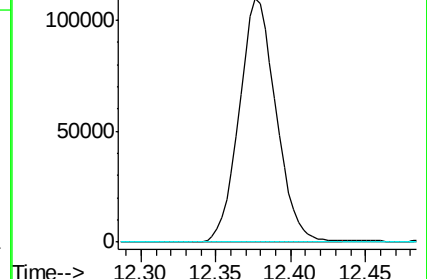
89 0.1 36.7 55.1#

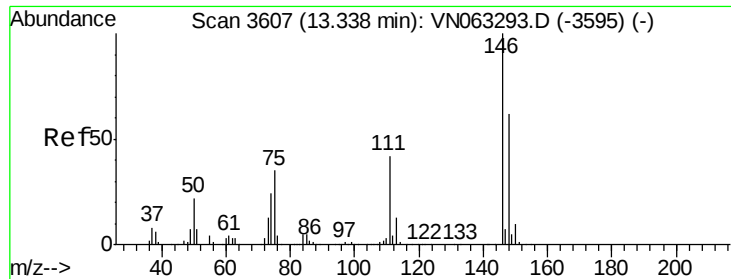


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.34 min Scan# 3608

Delta R.T. 0.00 min

Lab File: VN063315.D

Acq: 11 Sep 2020 15:30

Instrument :

MSVOA_N

ClientSampleId :

SA-MW127S-20200908

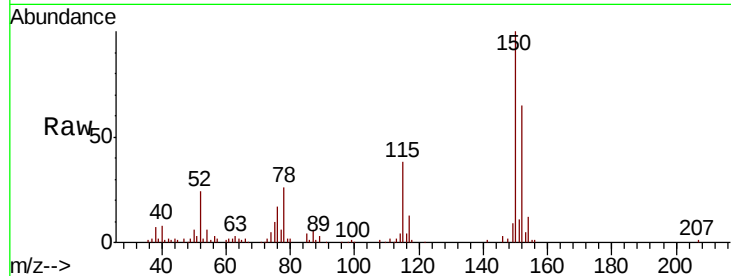
Tot Ion:146 Resp: 2137

Ion Ratio Lower Upper

146 100

111 0.0 21.3 64.0#

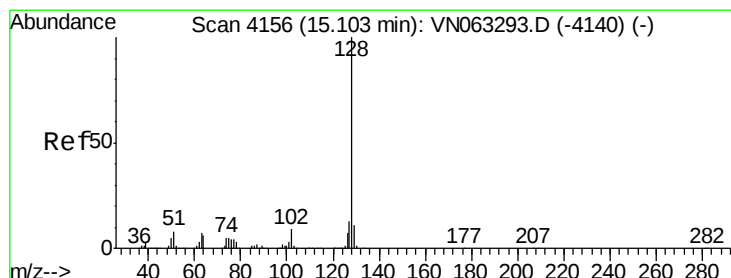
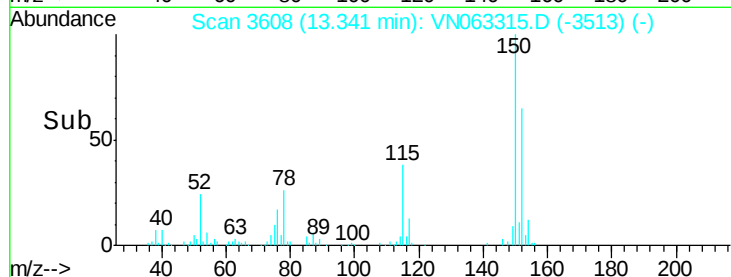
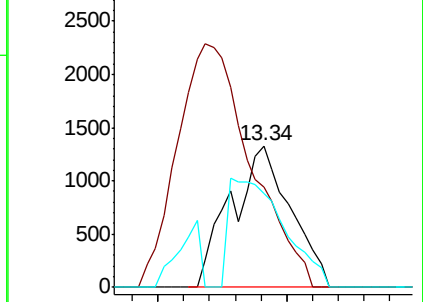
148 71.5 31.5 94.5



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



#95

Naphthalene

Concen: 0.219 ug/l

RT: 15.11 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN063315.D

Acq: 11 Sep 2020 15:30

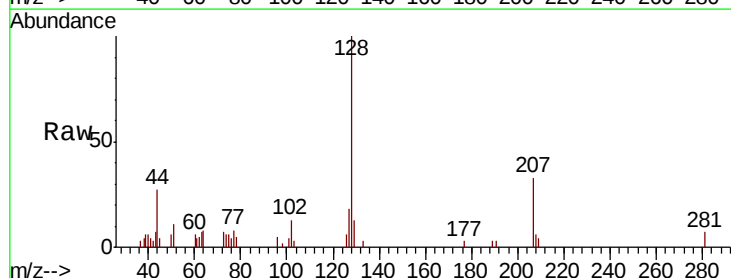
Tgt Ion:128 Resp: 12643

Ion Ratio Lower Upper

128 100

127 14.8 10.3 15.5

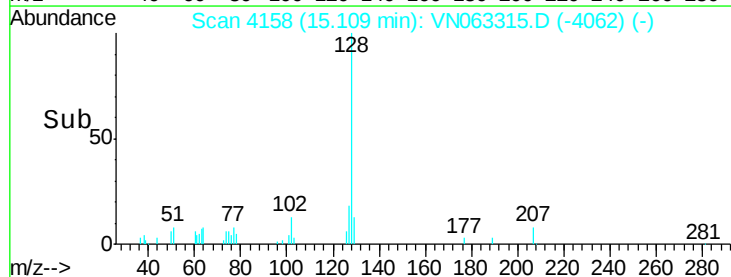
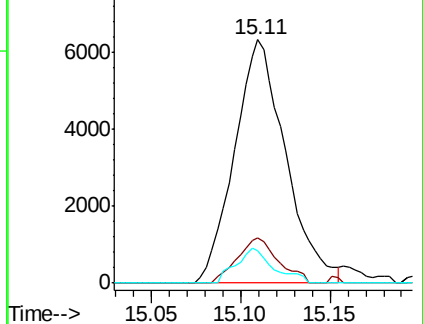
129 10.4 8.6 12.8

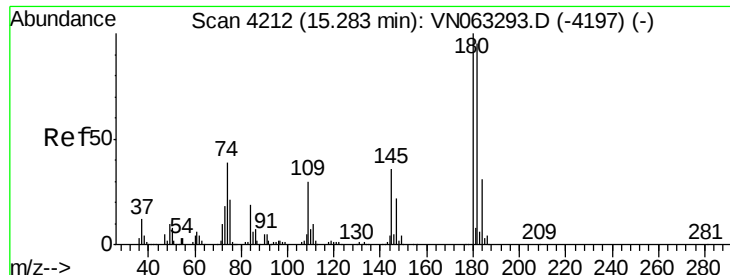


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

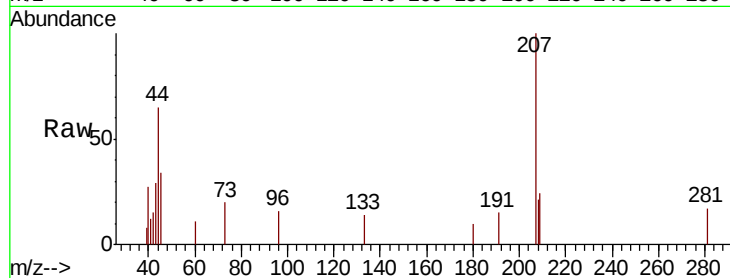




#96
 1,2,3-Trichlorobenzene
 Concen: Below Cal
 RT: 15.28 min Scan# 4210
 Delta R.T. -0.01 min
 Lab File: VN063315.D
 Acq: 11 Sep 2020 15:30

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-MW127S-20200908

Tot 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

