

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091120\
 Data File : VN063321.D
 Acq On : 11 Sep 2020 17:54
 Operator : JC/MD
 Sample : L3988-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-PZ193I-20200909

Quant Time: Sep 12 00:42:49 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	364326	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	685853	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	668825	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	269301	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	289102	50.51	ug/l	0.00
Spiked Amount			Recovery	=	101.02%	
35) Dibromofluoromethane	7.55	113	222974	50.39	ug/l	0.00
Spiked Amount			Recovery	=	100.78%	
50) Toluene-d8	10.06	98	873484	51.51	ug/l	0.00
Spiked Amount			Recovery	=	103.02%	
62) 4-Bromofluorobenzene	12.38	95	331690	52.96	ug/l	0.00
Spiked Amount			Recovery	=	105.92%	

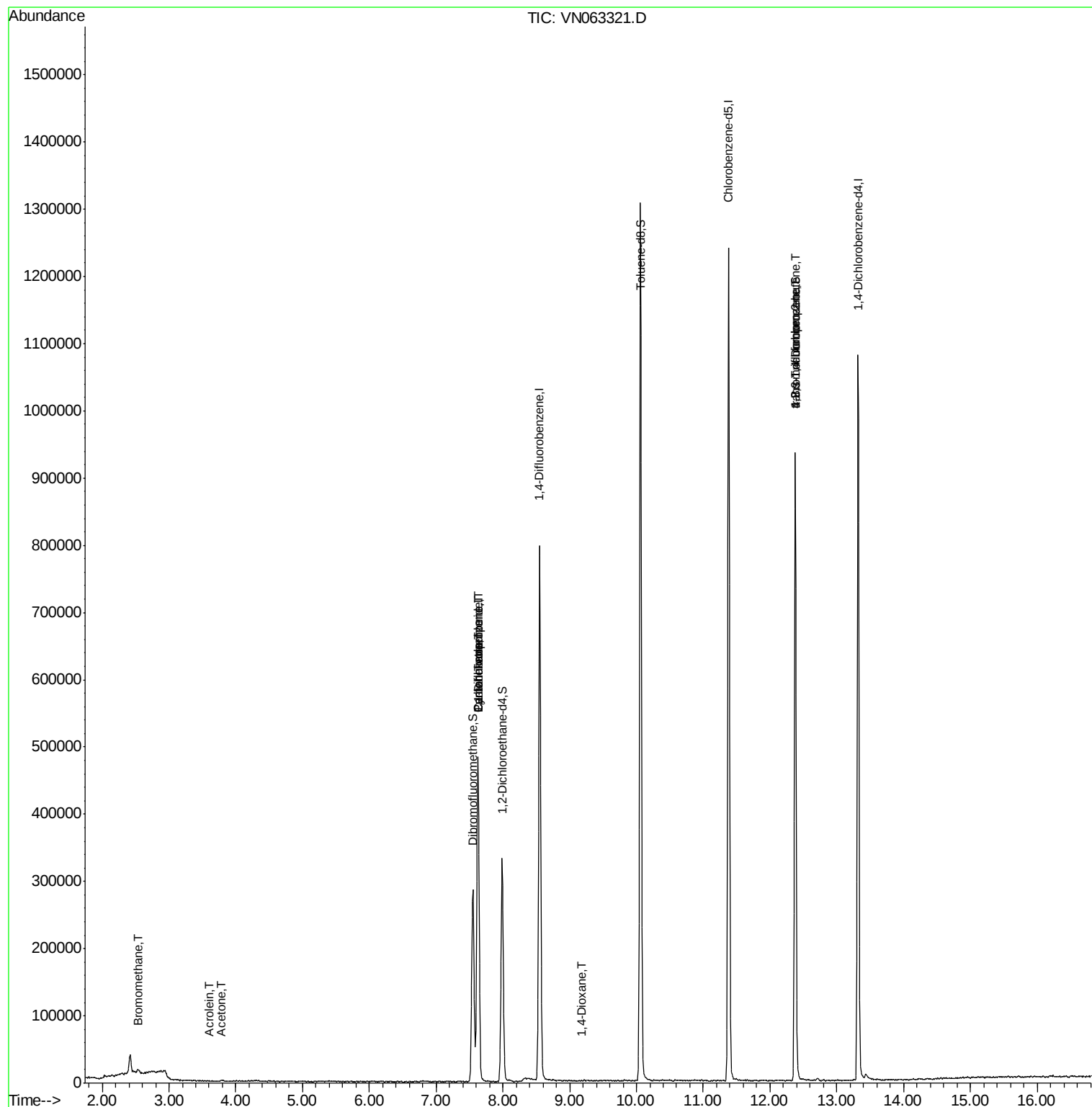
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1879	Below Cal	#	86
5) Bromomethane	2.55	94	816	0.236	ug/l	93
13) Acrolein	3.60	56	70	32.605	ug/l #	64
16) Acetone	3.78	43	973	0.492	ug/l #	46
17) Carbon Disulfide	4.02	76	701	Below Cal	#	75
20) Methylene Chloride	4.51	84	413	Below Cal	#	55
31) Cyclohexane	7.62	56	10152	1.265	ug/l #	19
36) 1,1-Dichloropropene	7.63	75	33459	4.746	ug/l #	50
38) Carbon Tetrachloride	7.63	117	40467	5.832	ug/l #	17
49) 1,4-Dioxane	9.16	88	117	1.348	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	177782	29.924	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	177782	80.399	ug/l #	9
88) 1,4-Dichlorobenzene	13.35	146	193	Below Cal	#	25
95) Naphthalene	15.11	128	647	Below Cal	#	69
96) 1,2,3-Trichlorobenzene	15.31	180	106	Below Cal	#	12

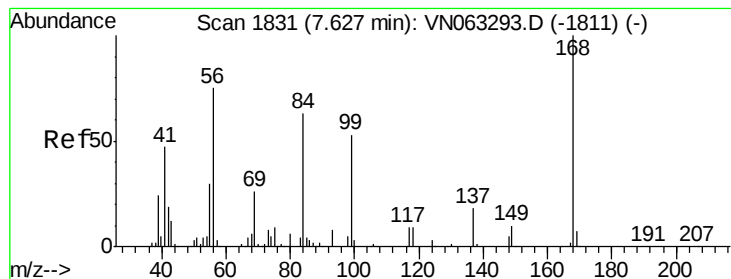
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN063321.D

Acq: 11 Sep 2020 17:54

Instrument :

MSVOA_N

ClientSampleId :

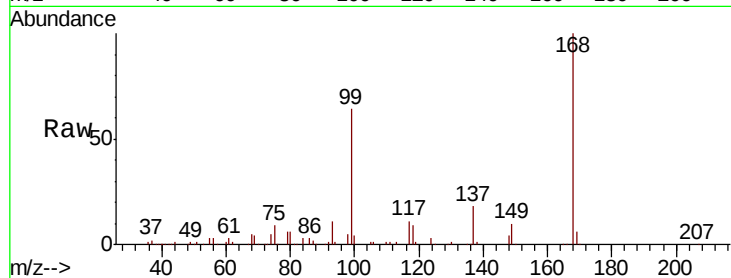
SA-PZ193I-20200909

Tot Ion:168 Resp: 364326

Ion Ratio Lower Upper

168 100

99 64.3 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

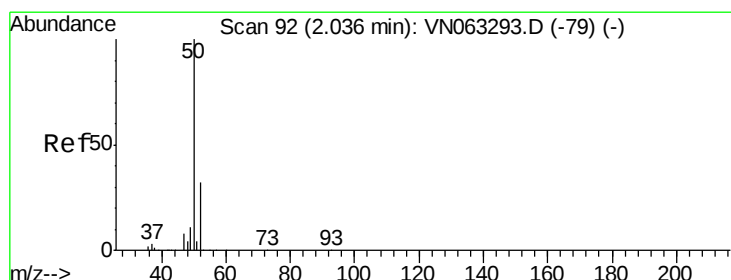
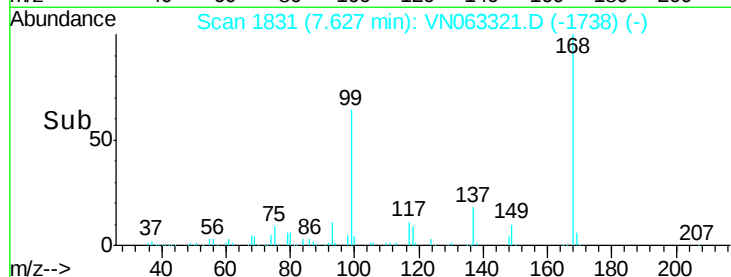
0

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: VN063321.D

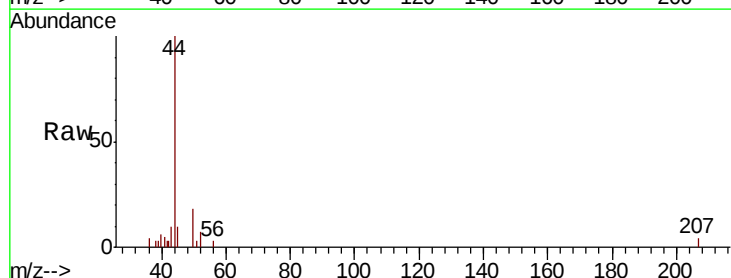
Acq: 11 Sep 2020 17:54

Tgt Ion: 50 Resp: 1879

Ion Ratio Lower Upper

50 100

52 39.9 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

1200

1000

800

600

400

200

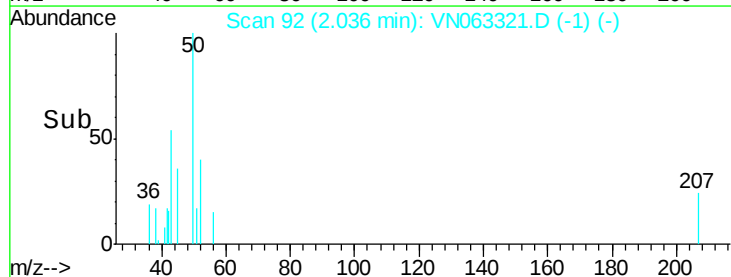
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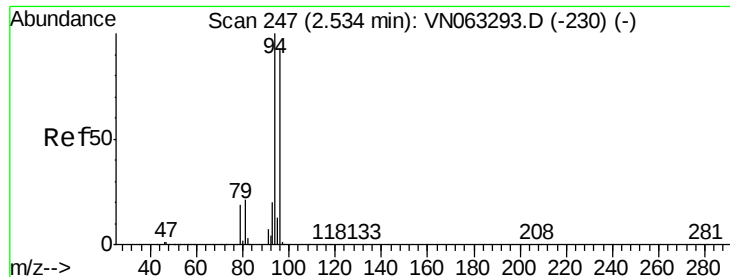
2.00

2.05

2.10

Time-->





#5

Bromomethane

Concen: 0.236 ug/l

RT: 2.55 min Scan# 251

Delta R.T. 0.01 min

Lab File: VN063321.D

Acq: 11 Sep 2020 17:54

Instrument :

MSVOA_N

ClientSampleId :

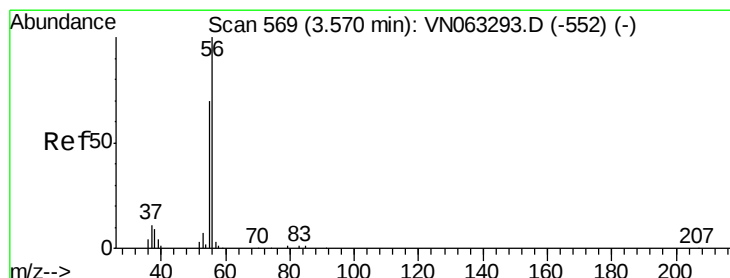
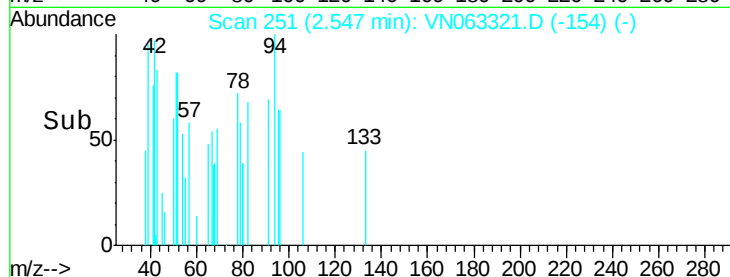
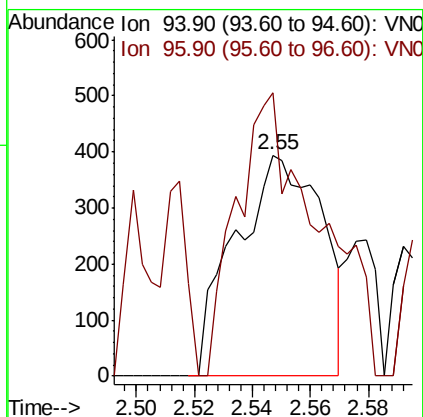
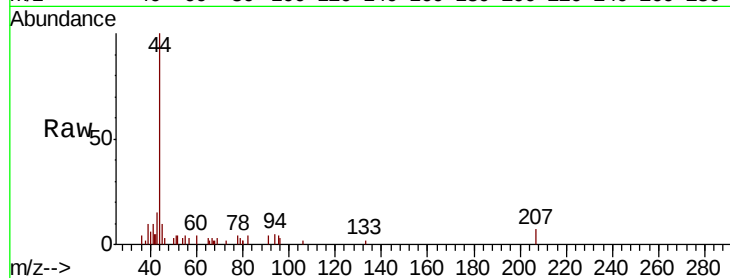
SA-PZ193I-20200909

Tot Ion: 94 Resp: 816

Ion Ratio Lower Upper

94 100

96 86.0 74.3 111.5



#13

Acrolein

Concen: 32.605 ug/l

RT: 3.60 min Scan# 580

Delta R.T. 0.04 min

Lab File: VN063321.D

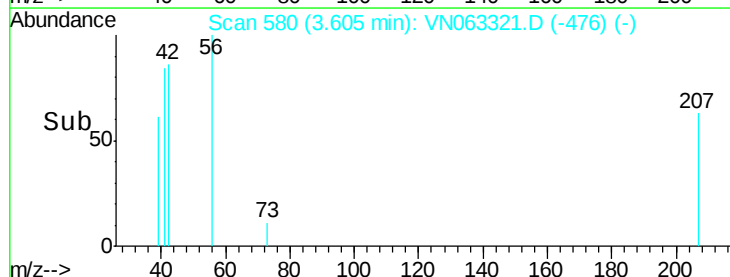
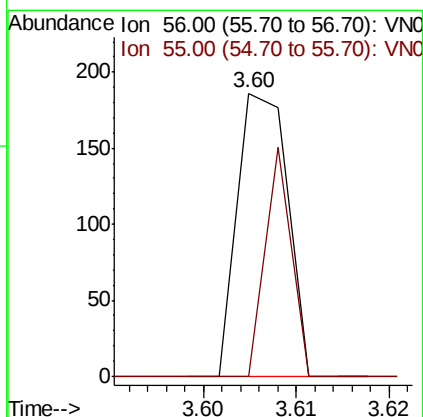
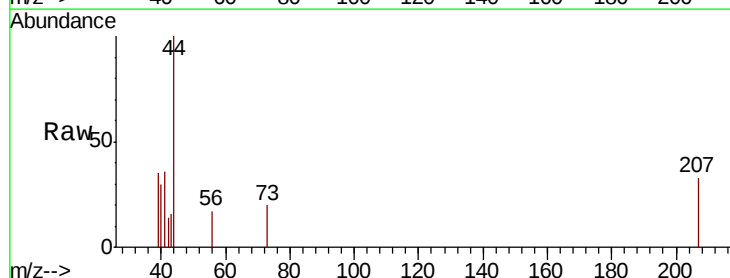
Acq: 11 Sep 2020 17:54

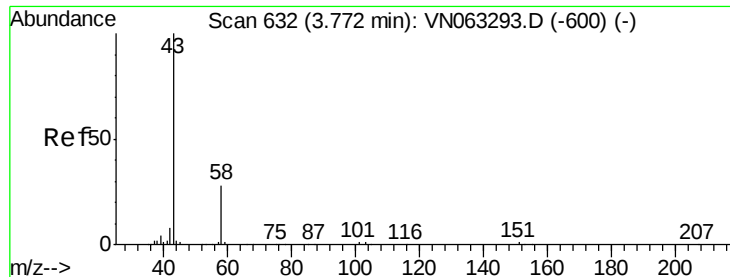
Tgt Ion: 56 Resp: 70

Ion Ratio Lower Upper

56 100

55 41.4 57.2 85.8#





#16

Acetone

Concen: 0.492 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN063321.D

Acq: 11 Sep 2020 17:54

Instrument :

MSVOA_N

ClientSampleId :

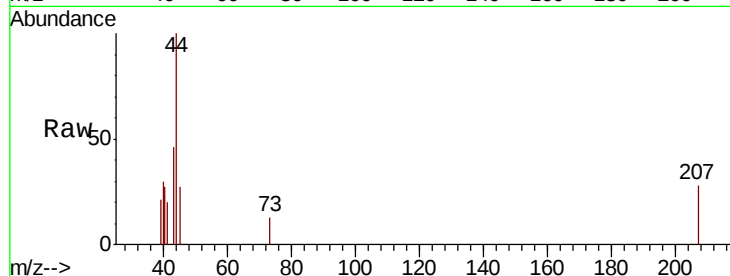
SA-PZ193I-20200909

Tot Ion: 43 Resp: 973

Ion Ratio Lower Upper

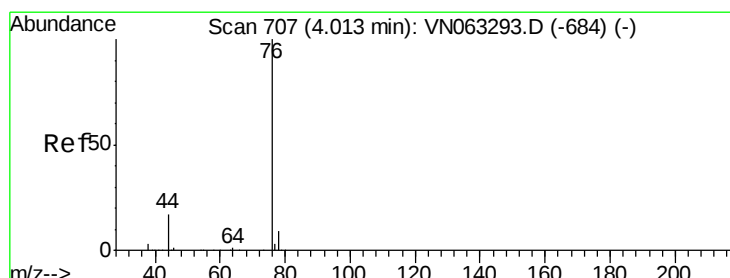
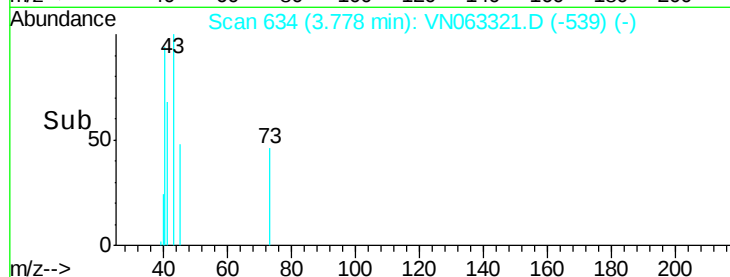
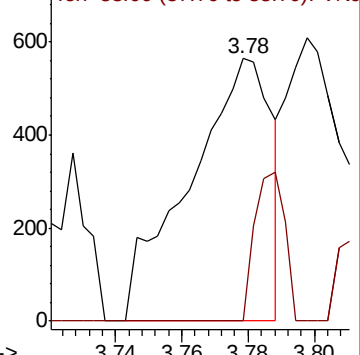
43 100

58 0.0 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: 4.02 min Scan# 710

Delta R.T. 0.01 min

Lab File: VN063321.D

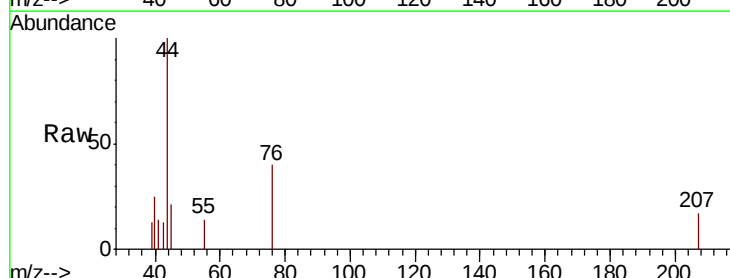
Acq: 11 Sep 2020 17:54

Tgt Ion: 76 Resp: 701

Ion Ratio Lower Upper

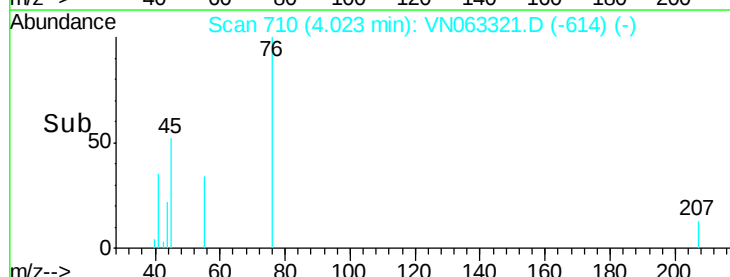
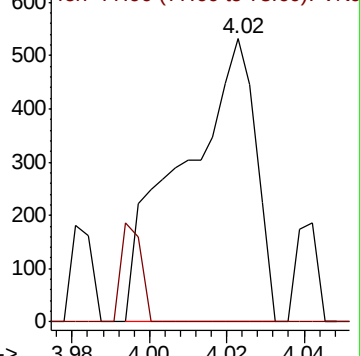
76 100

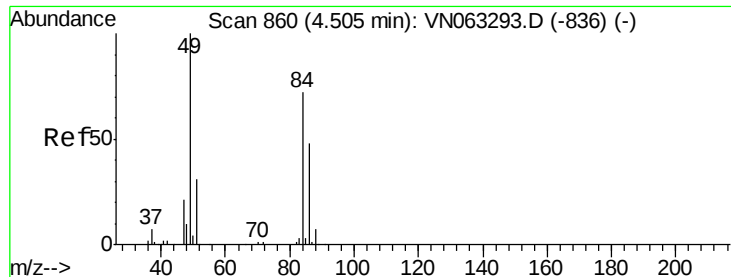
78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

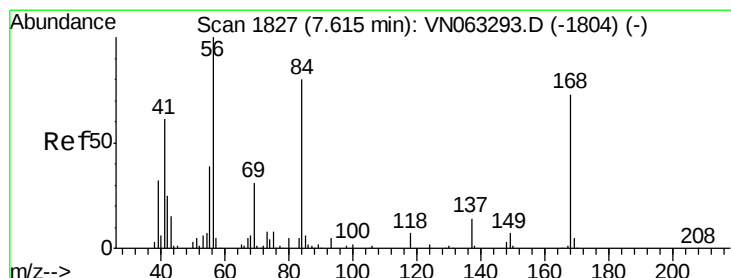
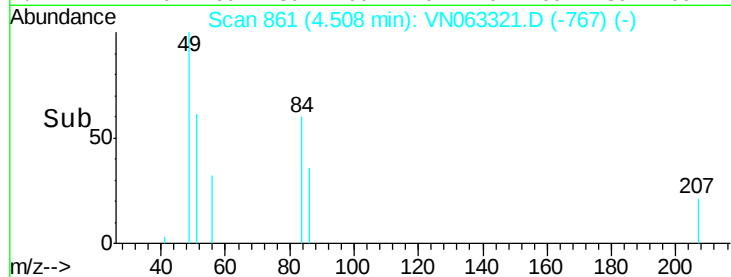
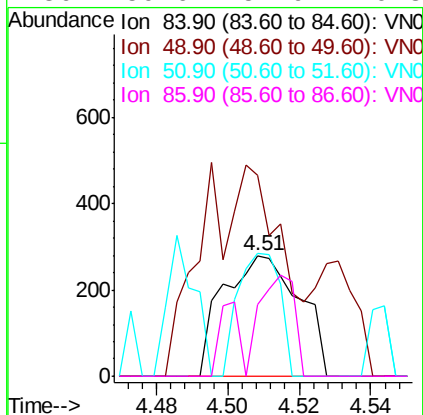
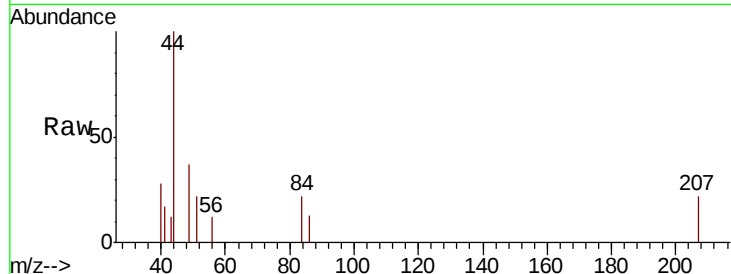




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.51 min Scan# 861
Delta R.T. 0.00 min
Lab File: VN063321.D
Acq: 11 Sep 2020 17:54

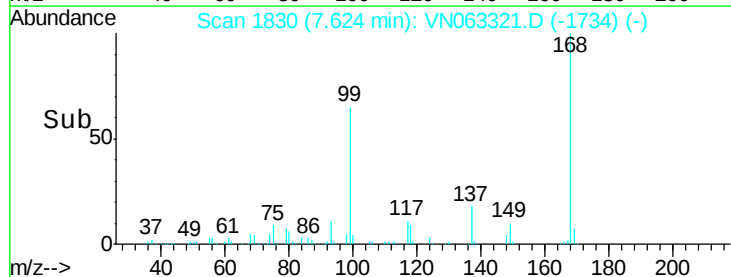
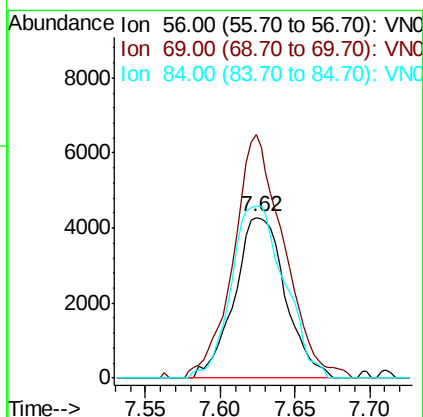
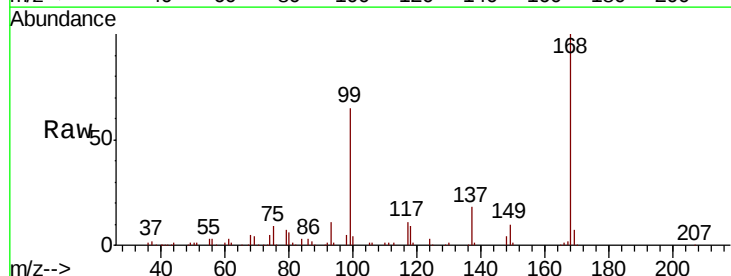
Instrument :
MSVOA_N
ClientSampleId :
SA-PZ193I-20200909

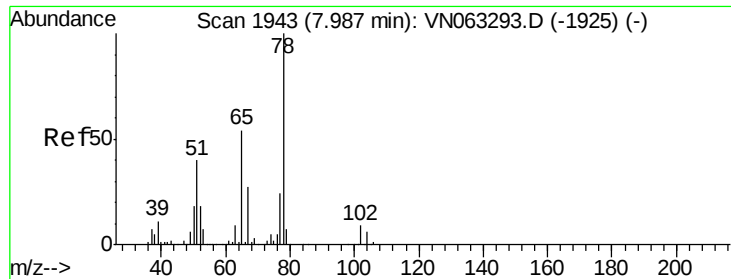
Tot Ion: 84 Resp: 413
Ion Ratio Lower Upper
84 100
49 80.7 111.1 166.7#
51 101.4 34.3 51.5#
86 59.6 52.9 79.3



#31
Cyclohexane
Concen: 1.265 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN063321.D
Acq: 11 Sep 2020 17:54

Tgt Ion: 56 Resp: 10152
Ion Ratio Lower Upper
56 100
69 147.6 25.1 37.7#
84 106.7 64.2 96.2#





#33

1,2-Dichloroethane-d4

Concen: 50.507 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063321.D

Acq: 11 Sep 2020 17:54

Instrument :

MSVOA_N

ClientSampleId :

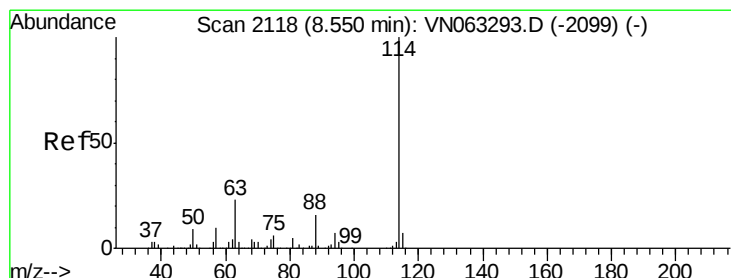
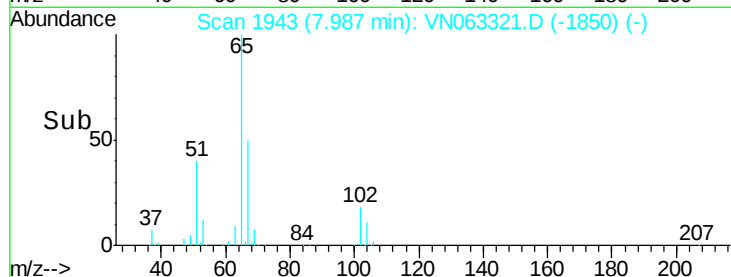
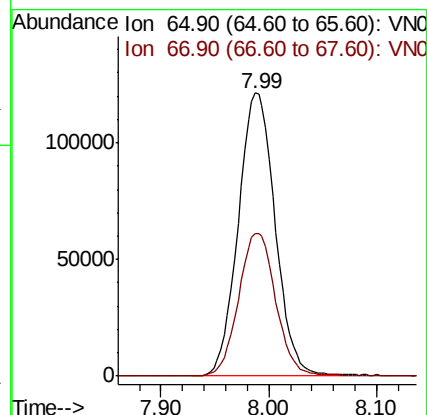
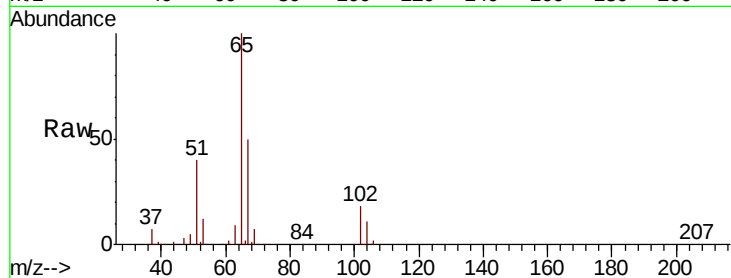
SA-PZ193I-20200909

Tot Ion: 65 Resp: 289102

Ion Ratio Lower Upper

65 100

67 51.0 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: VN063321.D

Acq: 11 Sep 2020 17:54

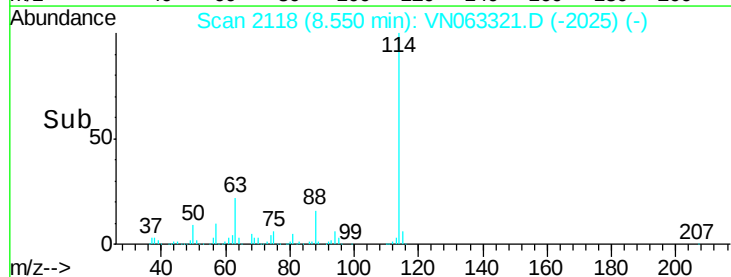
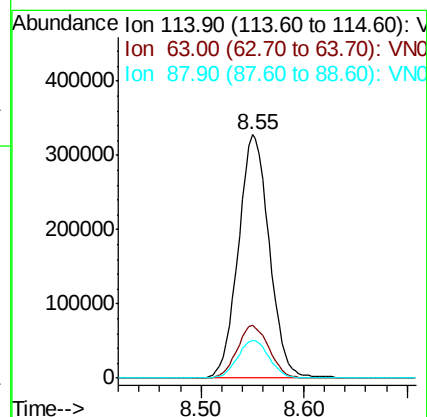
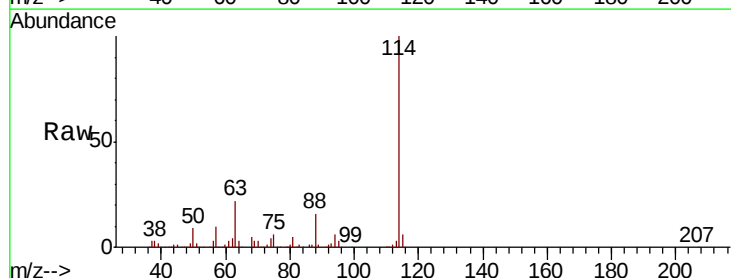
Tgt Ion: 114 Resp: 685853

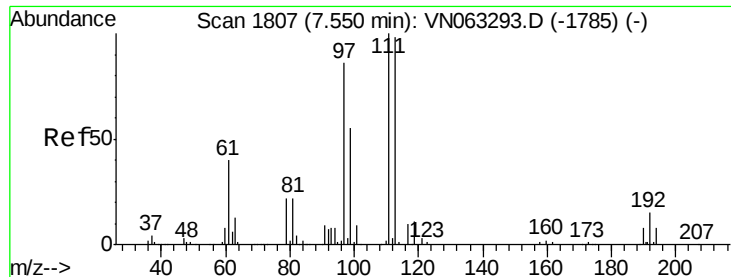
Ion Ratio Lower Upper

114 100

63 21.6 0.0 46.0

88 15.6 0.0 32.8

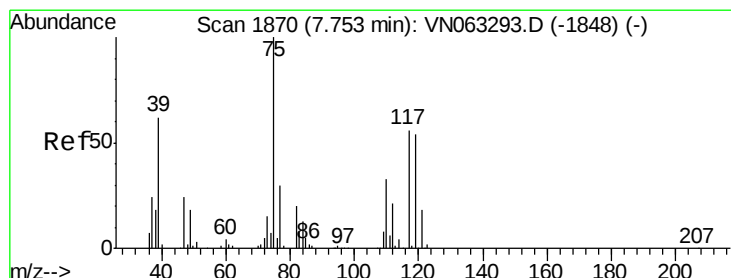
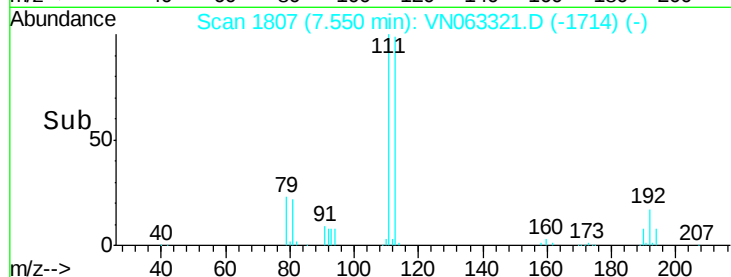
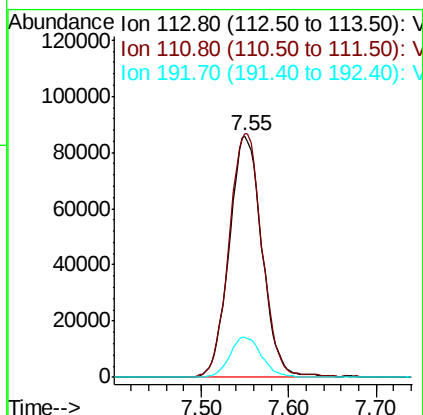
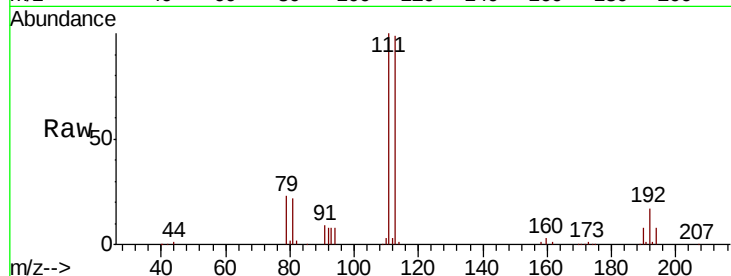




#35
 Dibromofluoromethane
 Concen: 50.394 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. -0.00 min
 Lab File: VN063321.D
 Acq: 11 Sep 2020 17:54

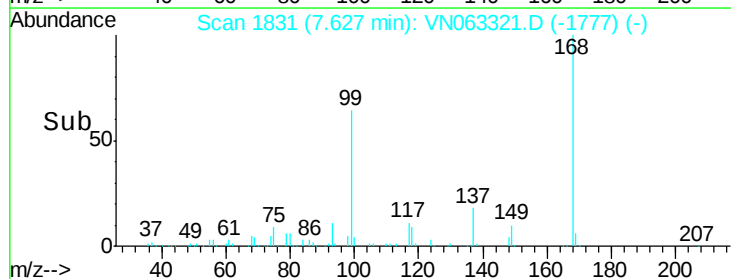
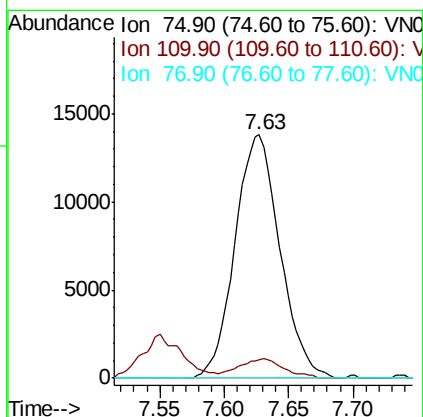
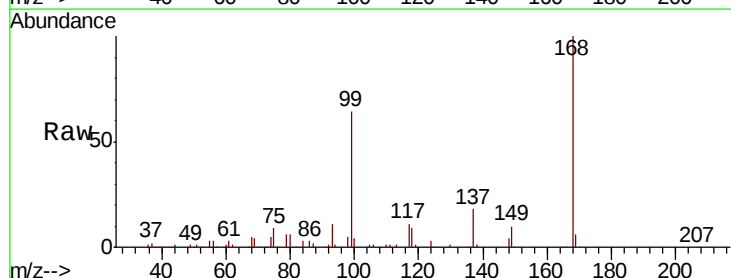
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 SA-PZ1931-20200909

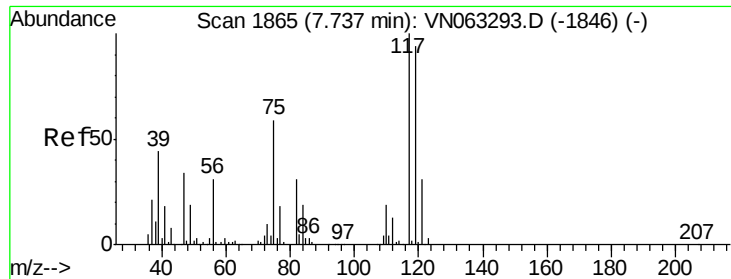
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.5	82.2	123.2
192	16.2	12.9	19.3



#36
 1,1-Dichloropropene
 Concen: 4.746 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063321.D
 Acq: 11 Sep 2020 17:54

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.0	16.4	49.4#
77	0.0	24.8	37.2#

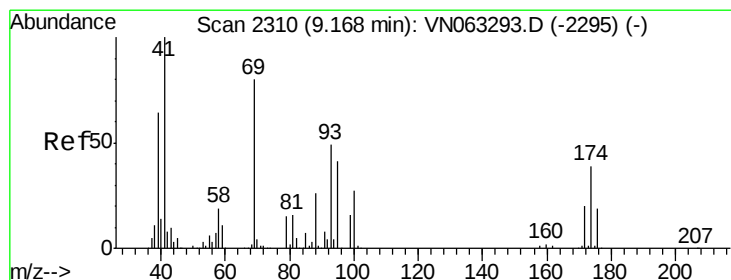
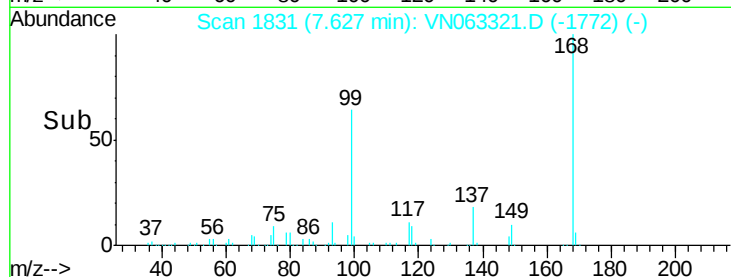
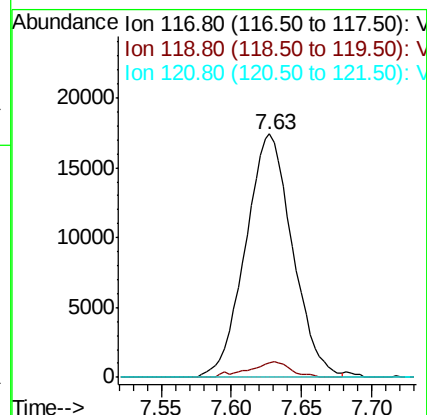
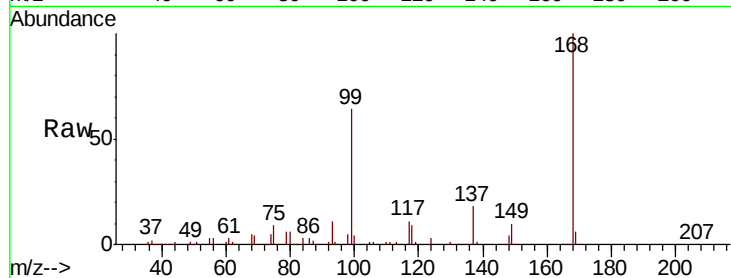




#38
Carbon Tetrachloride
Concen: 5.832 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN063321.D
Acq: 11 Sep 2020 17:54

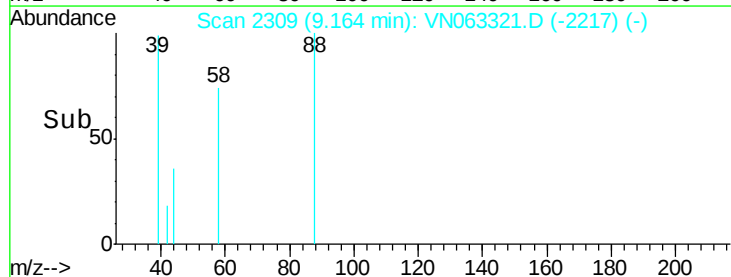
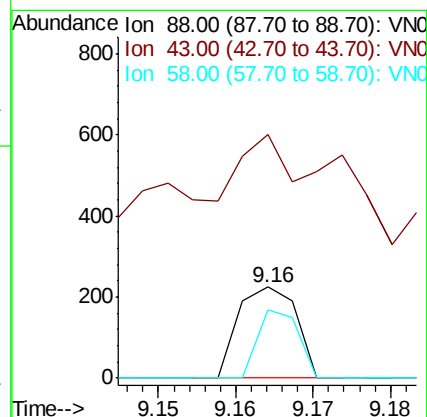
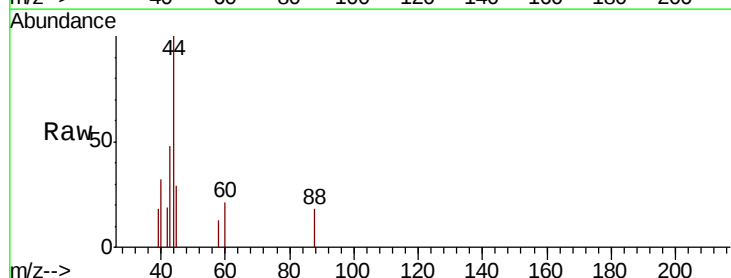
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SA-PZ193I-20200909

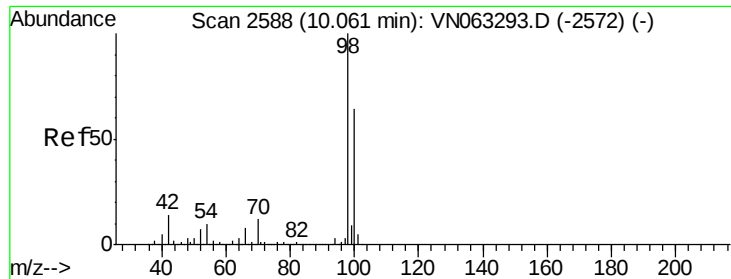
Tot Ion:117 Resp: 40467
Ion Ratio Lower Upper
117 100
119 5.9 75.3 112.9#
121 0.0 24.6 37.0#



#49
1,4-Dioxane
Concen: 1.348 ug/l
RT: 9.16 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN063321.D
Acq: 11 Sep 2020 17:54

Tgt Ion: 88 Resp: 117
Ion Ratio Lower Upper
88 100
43 192.3 30.5 45.7#
58 52.1 58.9 88.3#





#50

Toluene-d8

Concen: 51.514 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. -0.00 min

Lab File: VN063321.D

Acq: 11 Sep 2020 17:54

Instrument :

MSVOA_N

ClientSampleId :

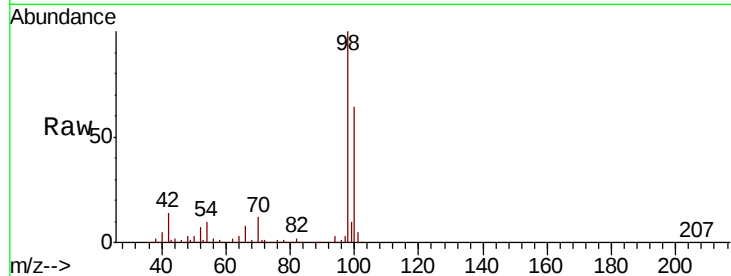
SA-PZ193I-20200909

Tot Ion: 98 Resp: 873484

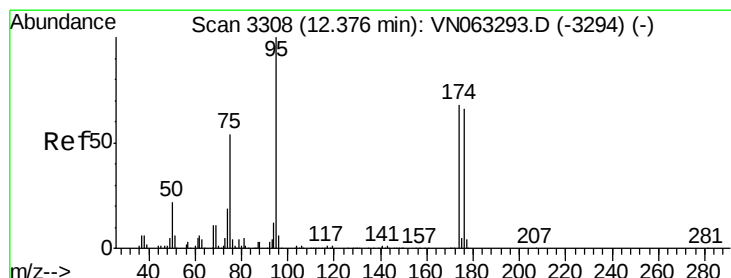
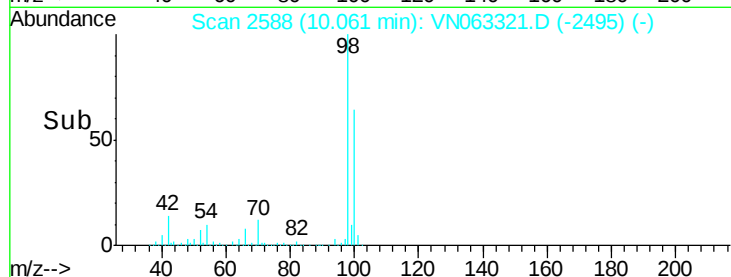
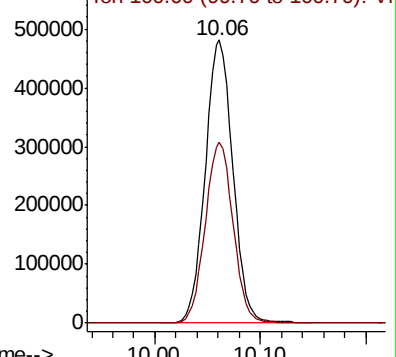
Ion Ratio Lower Upper

98 100

100 64.5 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN063321.D (-2495) (-)



#62

4-Bromofluorobenzene

Concen: 52.962 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063321.D

Acq: 11 Sep 2020 17:54

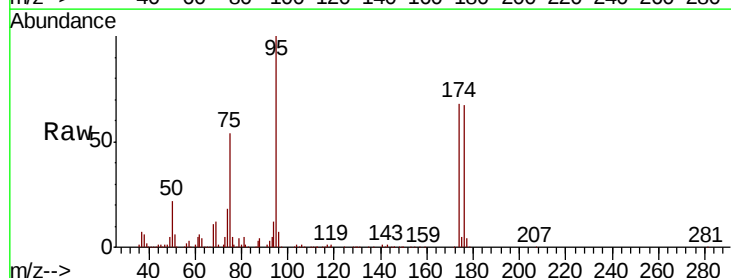
Tgt Ion: 95 Resp: 331690

Ion Ratio Lower Upper

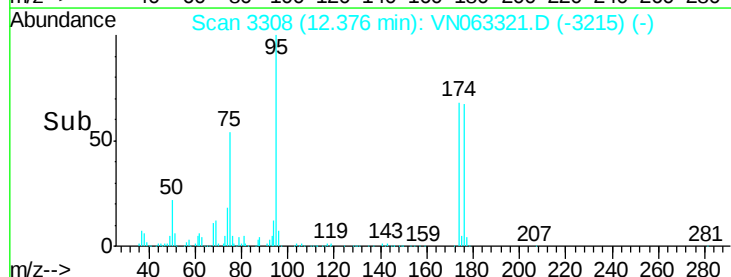
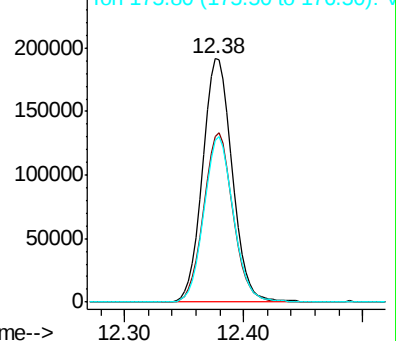
95 100

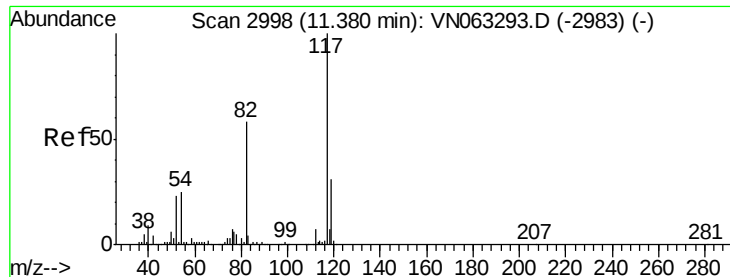
174 68.8 0.0 136.6

176 67.4 0.0 132.8



Abundance Ion 94.90 (94.60 to 95.60): VN063321.D (-3215) (-)

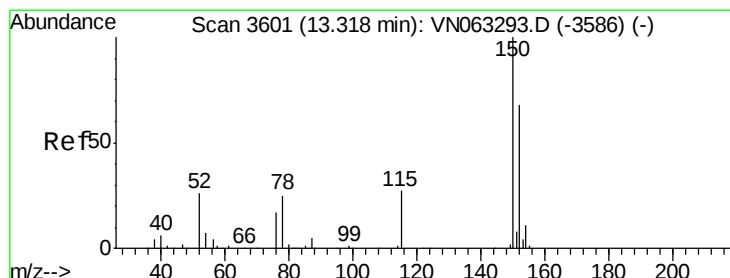
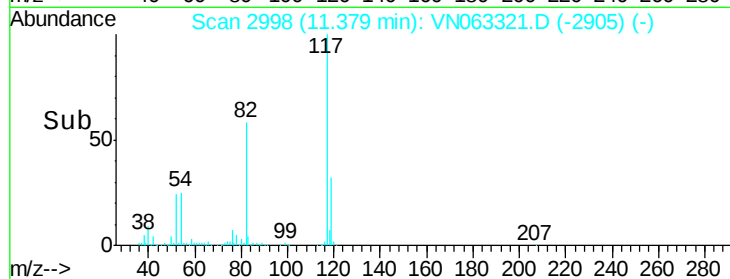
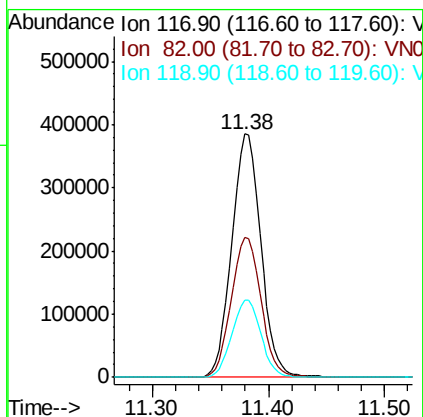
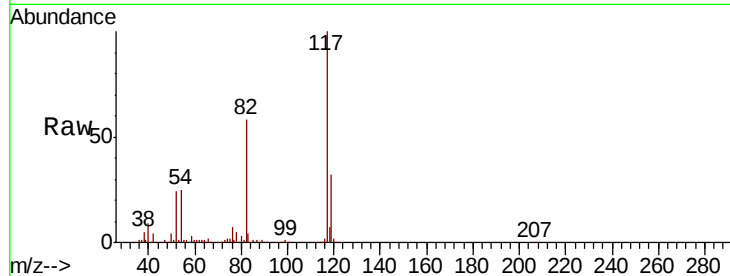




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063321.D
Acq: 11 Sep 2020 17:54

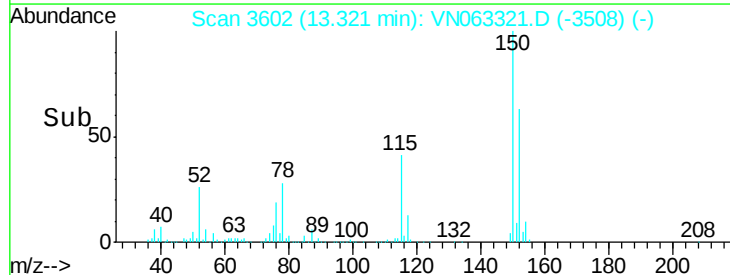
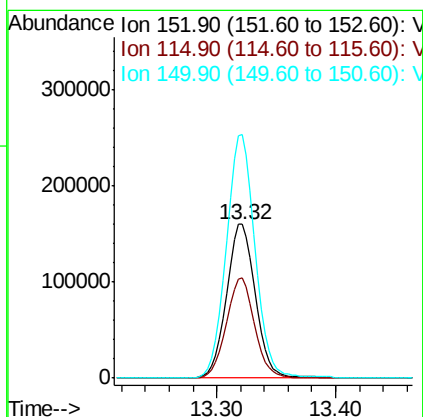
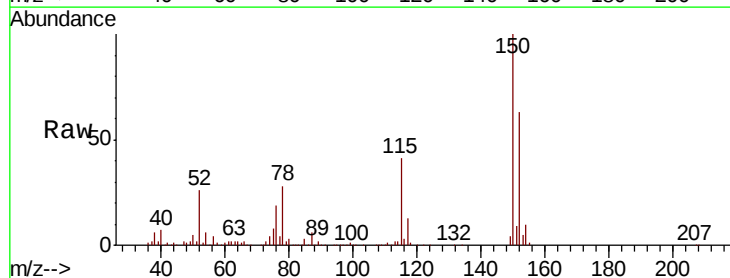
Instrument :
MSVOA_N
ClientSampleId :
SA-PZ193I-20200909

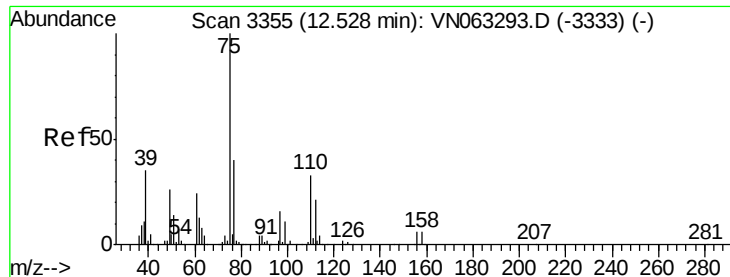
Tot Ion:117 Resp: 668825
Ion Ratio Lower Upper
117 100
82 57.5 46.4 69.6
119 31.6 24.8 37.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3602
Delta R.T. 0.00 min
Lab File: VN063321.D
Acq: 11 Sep 2020 17:54

Tgt Ion:152 Resp: 269301
Ion Ratio Lower Upper
152 100
115 63.3 31.5 94.5
150 158.1 0.0 344.0





#76

1,2,3-Trichloropropane

Concen: 29.924 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063321.D

Acq: 11 Sep 2020 17:54

Instrument :

MSVOA_N

ClientSampleId :

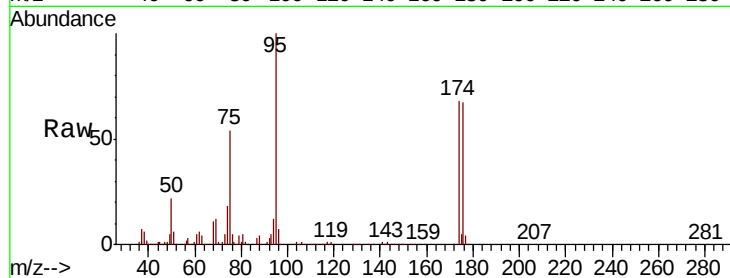
SA-PZ193I-20200909

Tot Ion: 75 Resp: 177782

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.38

100000

80000

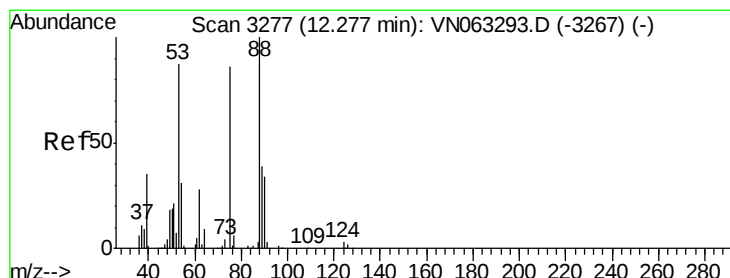
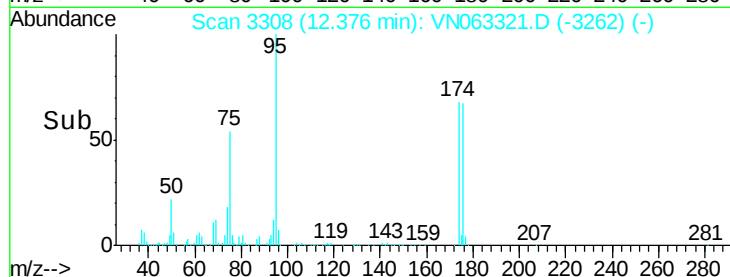
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 80.399 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063321.D

Acq: 11 Sep 2020 17:54

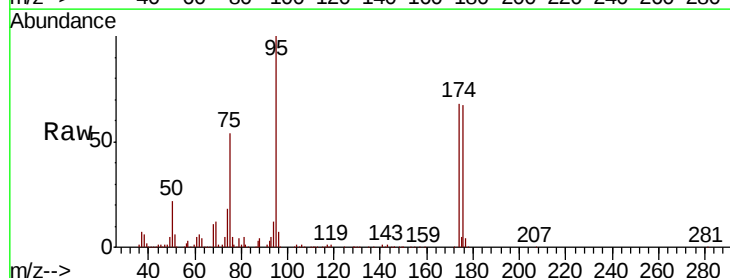
Tgt Ion: 75 Resp: 177782

Ion Ratio Lower Upper

75 100

53 0.0 81.8 122.8#

89 0.0 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

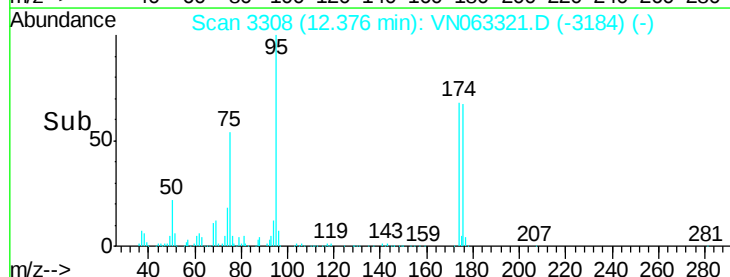
12.38

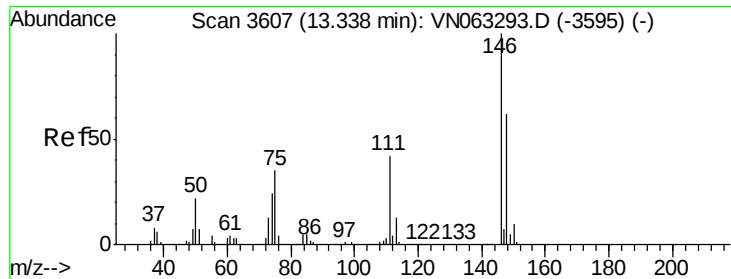
100000

50000

0

Time-->

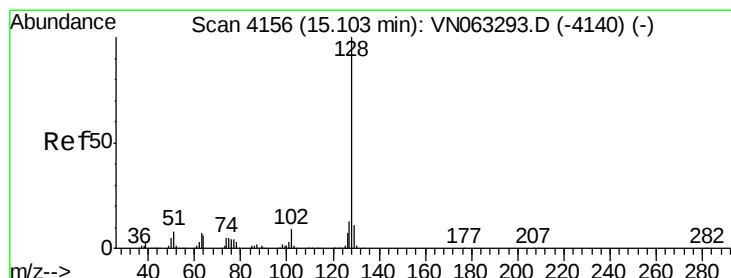
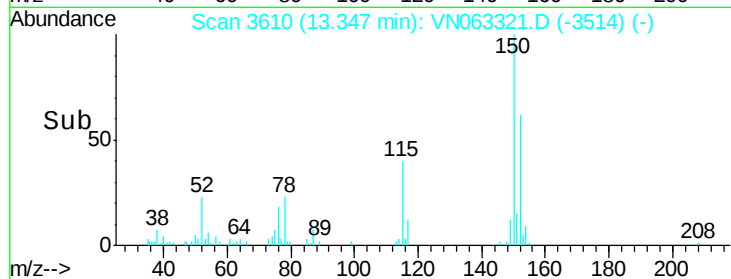
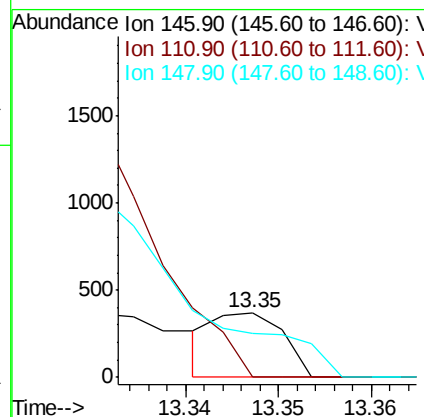
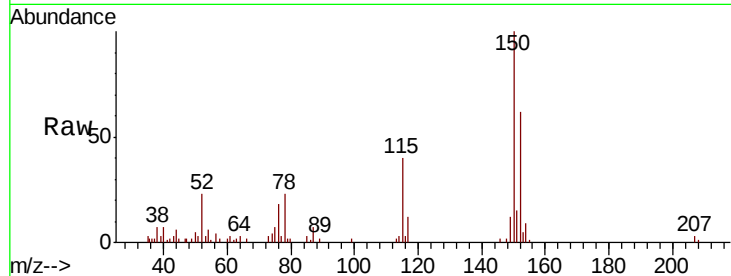




#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 13.35 min Scan# 3610
Delta R.T. 0.01 min
Lab File: VN063321.D
Acq: 11 Sep 2020 17:54

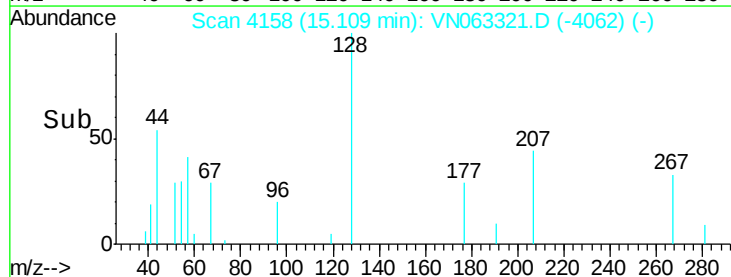
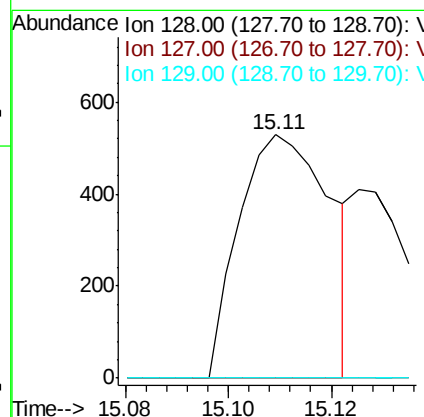
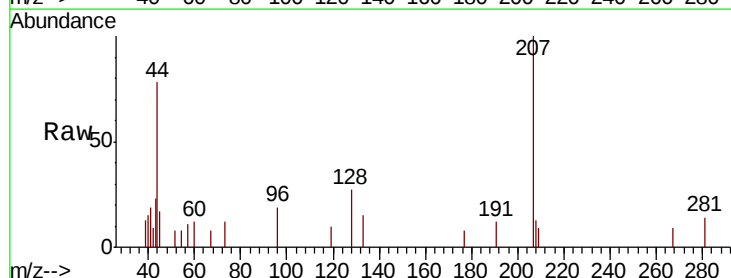
Instrument :
MSVOA_N
ClientSampleId :
SA-PZ193I-20200909

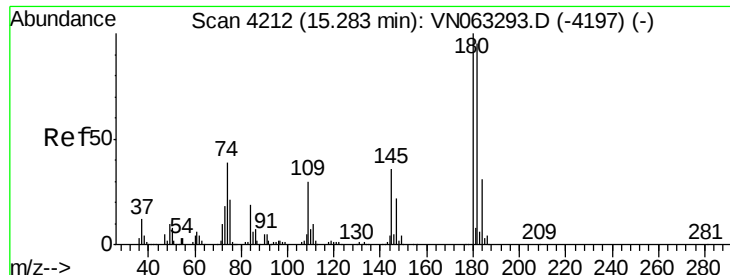
Tot Ion:146 Resp: 193
Ion Ratio Lower Upper
146 100
111 0.0 21.3 64.0#
148 0.0 31.5 94.5#



#95
Naphthalene
Concen: Below Cal
RT: 15.11 min Scan# 4158
Delta R.T. 0.01 min
Lab File: VN063321.D
Acq: 11 Sep 2020 17:54

Tgt Ion:128 Resp: 647
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 8.6 12.8#

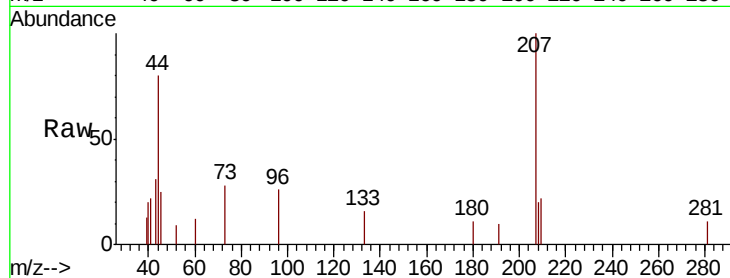




#96
 1,2,3-Trichlorobenzene
 Concen: Below Cal
 RT: 15.31 min Scan# 4220
 Delta R.T. 0.03 min
 Lab File: VN063321.D
 Acq: 11 Sep 2020 17:54

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-PZ193I-20200909

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

