

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN103020\
 Data File : VN064408.D
 Acq On : 30 Oct 2020 18:27
 Operator : JC/MD
 Sample : L4568-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RECLAMATION-PIT

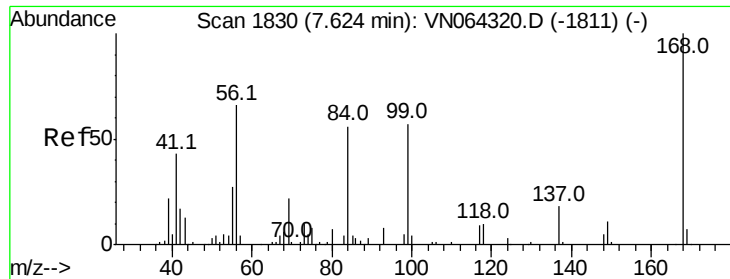
Quant Time: Nov 02 02:08:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 12:23:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	204070	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	362508	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	373187	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	159422	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	172590	52.63	ug/l	0.00
Spiked Amount			Recovery	=	105.26%	
35) Dibromofluoromethane	7.55	113	120508	49.85	ug/l	0.00
Spiked Amount			Recovery	=	99.70%	
50) Toluene-d8	10.06	98	463556	51.84	ug/l	0.00
Spiked Amount			Recovery	=	103.68%	
62) 4-Bromofluorobenzene	12.38	95	199382	57.19	ug/l	0.00
Spiked Amount			Recovery	=	114.38%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	897	1.884	ug/l #	70
16) Acetone	3.77	43	43313	32.345	ug/l	90
18) Methyl Acetate	4.28	43	3648	1.481	ug/l #	69
20) Methylene Chloride	4.51	84	21206	9.118	ug/l	95
25) 2-Butanone	6.79	43	18873	11.462	ug/l #	90
29) Tetrahydrofuran	7.16	42	819	0.766	ug/l #	74
30) Chloroform	7.33	83	3242	0.698	ug/l #	53
31) Cyclohexane	7.62	56	5550	1.458	ug/l #	38
36) 1,1-Dichloropropene	7.62	75	16713	4.568	ug/l #	50
37) Ethyl Acetate	6.79	43	18873	5.107	ug/l #	71
38) Carbon Tetrachloride	7.62	117	24276	5.723	ug/l #	18
43) Isopropyl Acetate	8.12	43	29820	4.720	ug/l #	90
48) Methyl methacrylate	9.14	41	5033	1.544	ug/l #	33
49) 1,4-Dioxane	9.16	88	32	0.666	ug/l #	20
51) 4-Methyl-2-Pentanone	9.95	43	100927	27.485	ug/l	97
52) Toluene	10.12	92	9902	1.541	ug/l	97
54) cis-1,3-Dichloropropene	9.87	75	17058	3.707	ug/l #	64
56) Ethyl methacrylate	10.32	69	10676	2.780	ug/l #	57
57) 1,3-Dichloropropane	10.73	76	1681	0.388	ug/l #	42
59) 2-Hexanone	10.73	43	27365	10.118	ug/l #	56
74) N-amyl acetate	12.00	43	3680	0.700	ug/l #	52
76) 1,2,3-Trichloropropane	12.37	75	109093	28.575	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	109093	82.312	ug/l #	8
95) Naphthalene	15.10	128	1014	2.500	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN064408.D

Acq: 30 Oct 2020 18:27

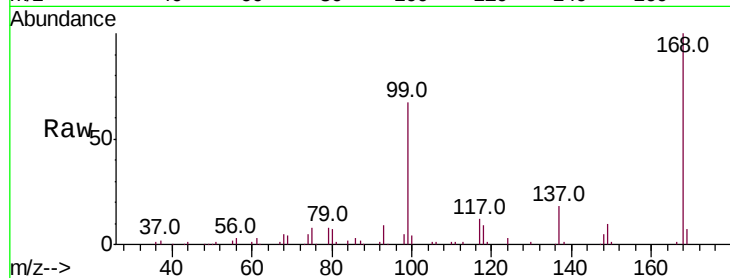
Instrument :
MSVOA_N
ClientSampleId :
RECLAMATION-PIT

Tot Ion:168 Resp: 204070

Ion Ratio Lower Upper

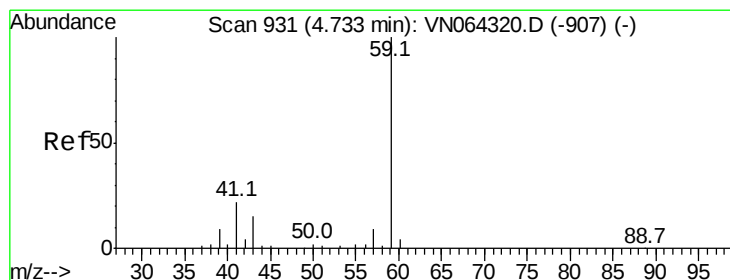
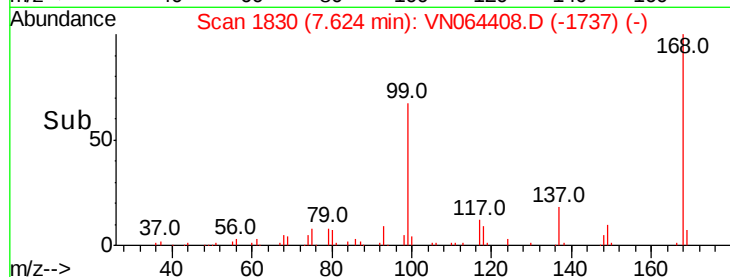
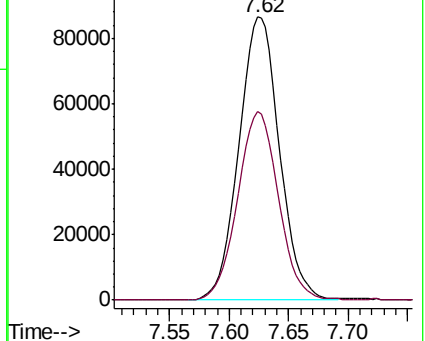
168 100

99 66.9 52.7 79.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 1.884 ug/l

RT: 4.72 min Scan# 928

Delta R.T. -0.01 min

Lab File: VN064408.D

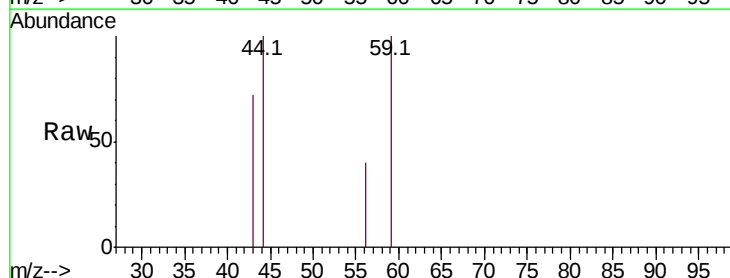
Acq: 30 Oct 2020 18:27

Tgt Ion: 59 Resp: 897

Ion Ratio Lower Upper

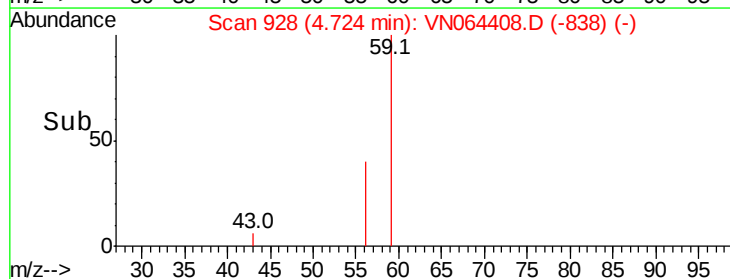
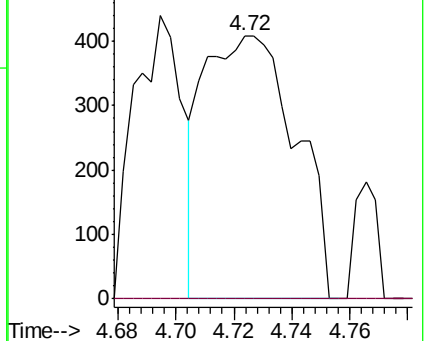
59 100

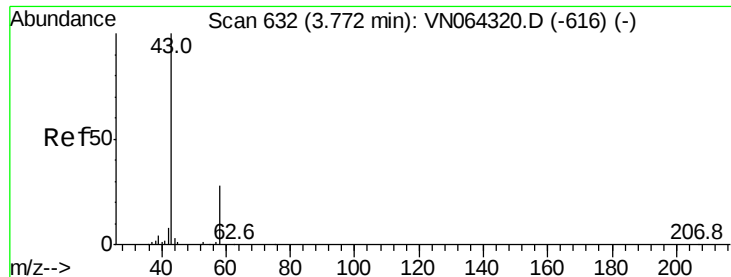
57 0.0 9.4 14.0#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: 32.345 ug/l

RT: 3.77 min Scan# 631

Delta R.T. -0.00 min

Lab File: VN064408.D

Acq: 30 Oct 2020 18:27

Instrument :

MSVOA_N

ClientSampleId :

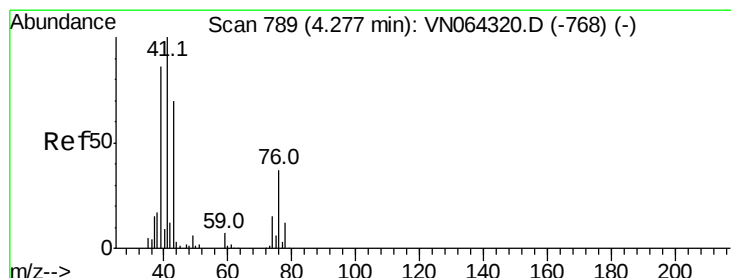
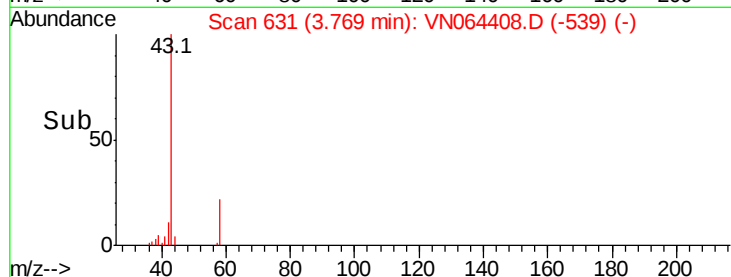
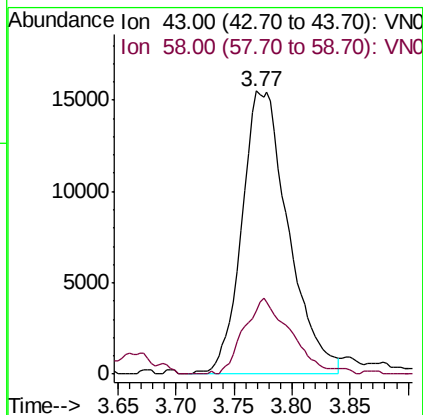
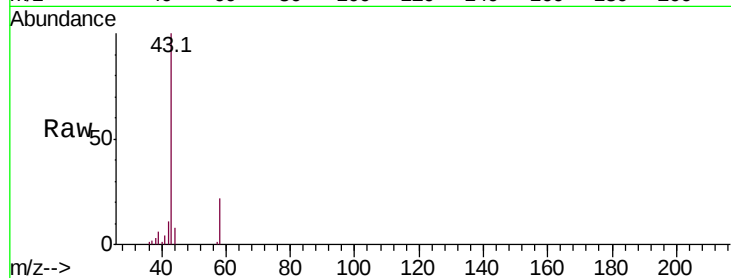
RECLAMATION-PIT

Tot Ion: 43 Resp: 43313

Ion Ratio Lower Upper

43 100

58 22.2 22.1 33.1



#18

Methyl Acetate

Concen: 1.481 ug/l

RT: 4.28 min Scan# 790

Delta R.T. 0.00 min

Lab File: VN064408.D

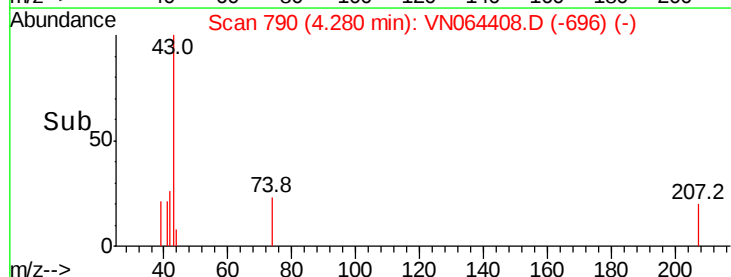
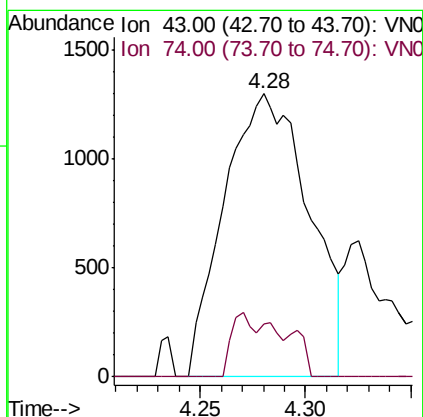
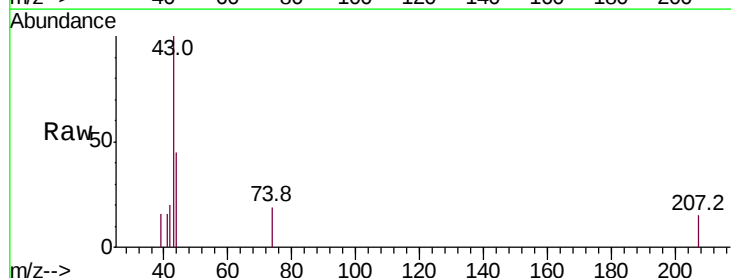
Acq: 30 Oct 2020 18:27

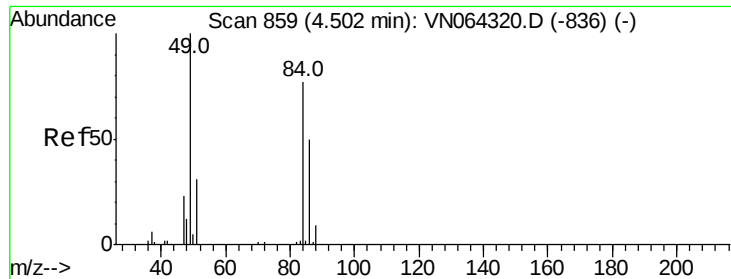
Tgt Ion: 43 Resp: 3648

Ion Ratio Lower Upper

43 100

74 6.2 16.7 25.1#

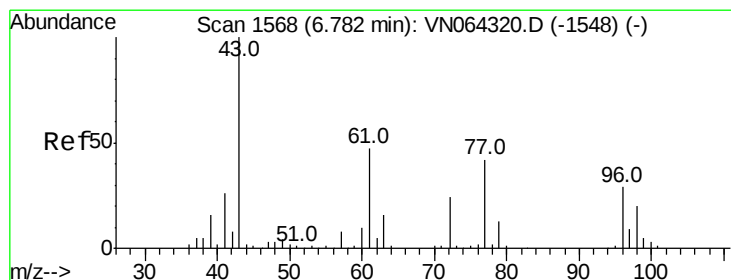
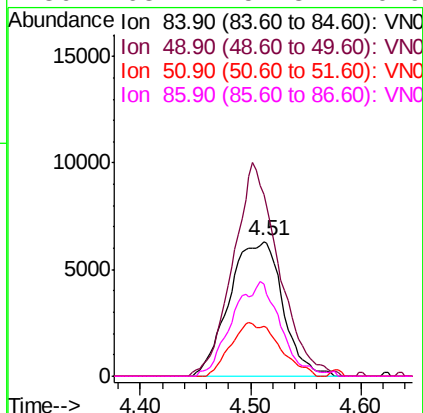
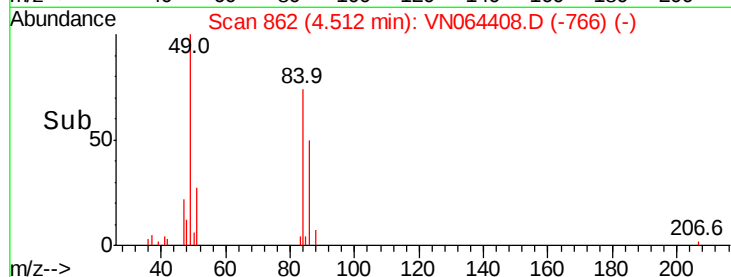
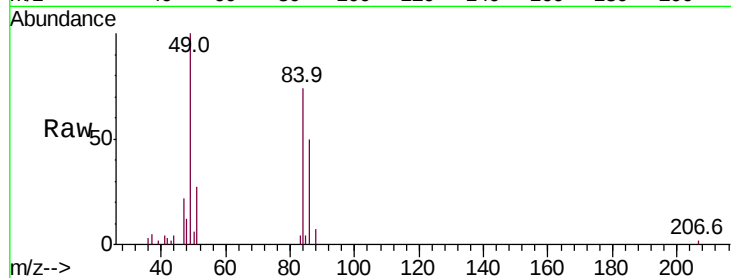




#20
Methvlene Chloride
Concen: 9.118 ug/l
RT: 4.51 min Scan# 862
Delta R.T. 0.01 min
Lab File: VN064408.D
Acq: 30 Oct 2020 18:27

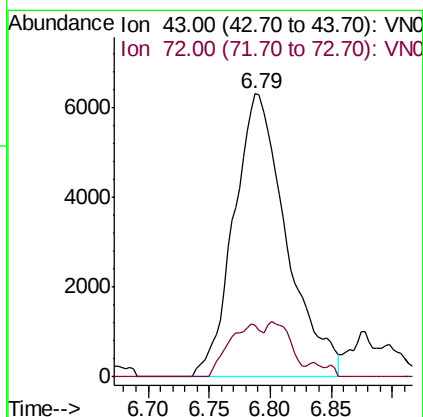
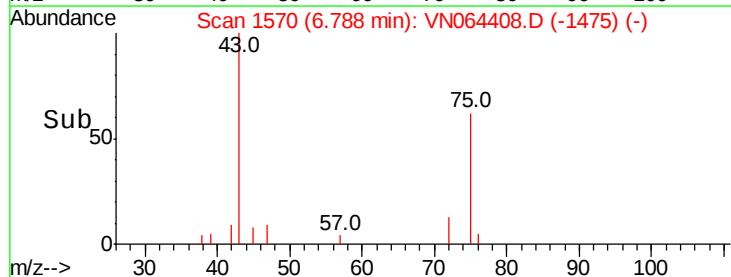
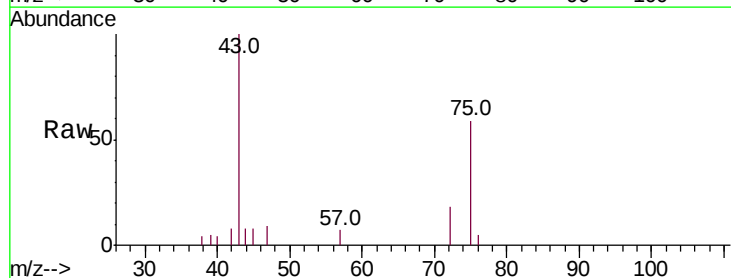
Instrument :
MSVOA_N
ClientSampleId :
RECLAMATION-PIT

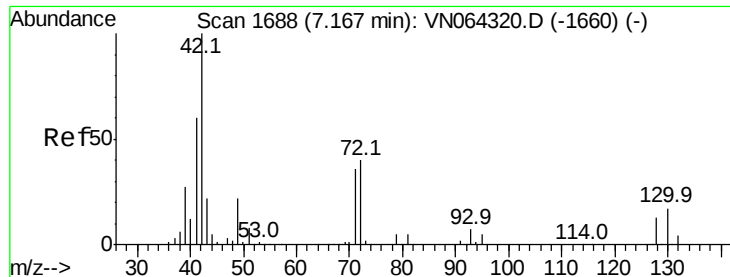
Tot Ion: 84 Resp: 21206
Ion Ratio Lower Upper
84 100
49 135.2 103.6 155.4
51 37.1 31.8 47.8
86 68.2 51.3 76.9



#25
2-Butanone
Concen: 11.462 ug/l
RT: 6.79 min Scan# 1570
Delta R.T. 0.01 min
Lab File: VN064408.D
Acq: 30 Oct 2020 18:27

Tgt Ion: 43 Resp: 18873
Ion Ratio Lower Upper
43 100
72 18.4 18.8 28.2#





#29

Tetrahydrofuran

Concen: 0.766 ug/l

RT: 7.16 min Scan# 1686

Delta R.T. -0.01 min

Lab File: VN064408.D

Acq: 30 Oct 2020 18:27

Instrument :

MSVOA_N

ClientSampleId :

RECLAMATION-PIT

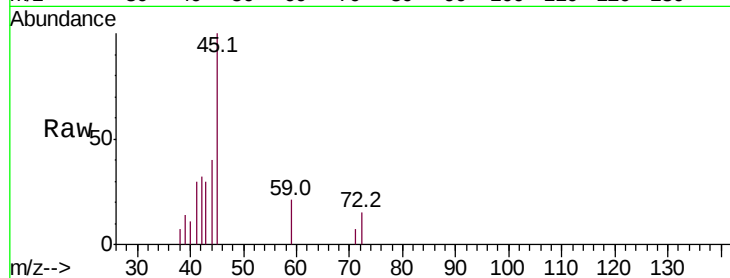
Tot Ion: 42 Resp: 819

Ion Ratio Lower Upper

42 100

72 42.1 31.6 47.4

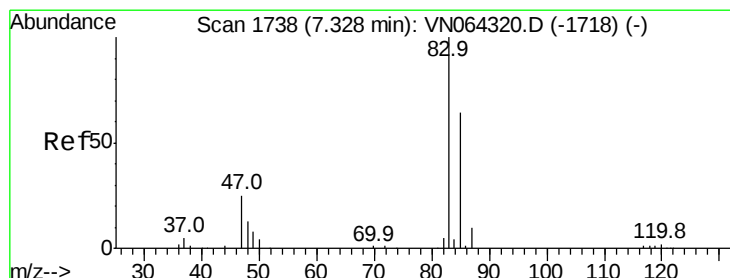
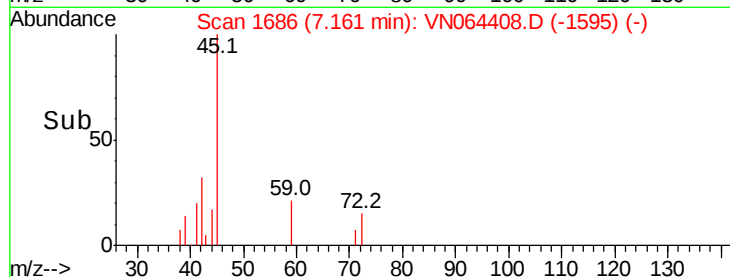
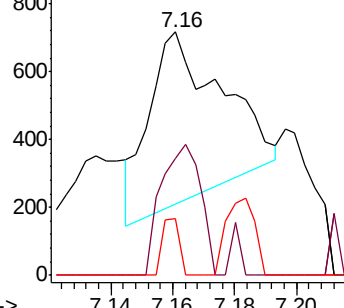
71 7.8 29.4 44.0#



Abundance Ion 42.00 (41.70 to 42.70): VN064320.D (-1660) (-)

Ion 72.00 (71.70 to 72.70): VN064320.D (-1660) (-)

Ion 71.00 (70.70 to 71.70): VN064320.D (-1660) (-)



#30

Chloroform

Concen: 0.698 ug/l

RT: 7.33 min Scan# 1739

Delta R.T. 0.00 min

Lab File: VN064408.D

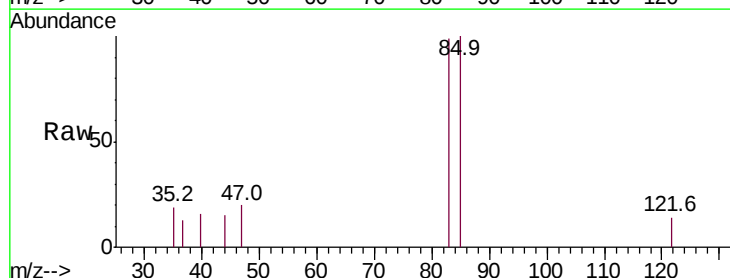
Acq: 30 Oct 2020 18:27

Tgt Ion: 83 Resp: 3242

Ion Ratio Lower Upper

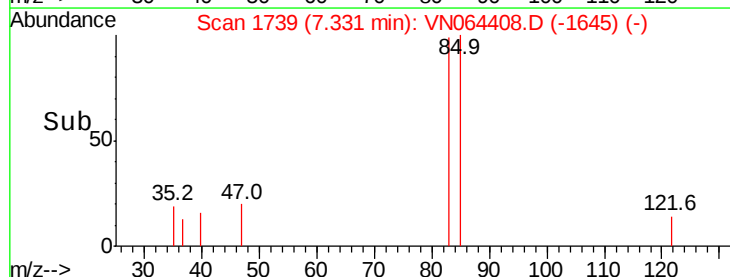
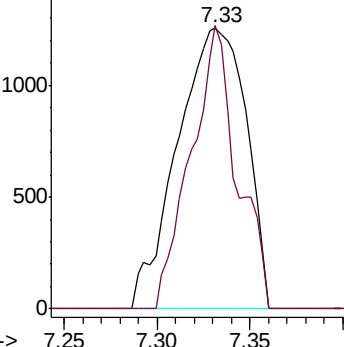
83 100

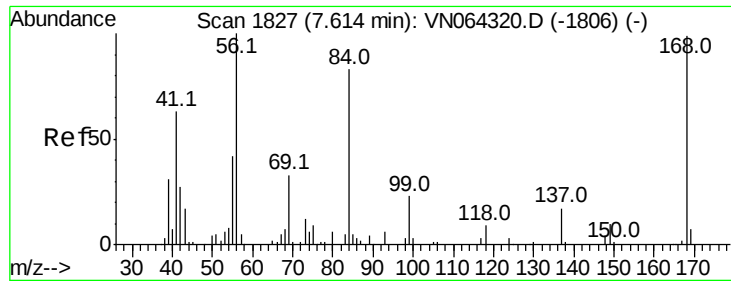
85 100.8 51.1 76.7#



Abundance Ion 82.90 (82.60 to 83.60): VN064320.D (-1718) (-)

Ion 84.90 (84.60 to 85.60): VN064320.D (-1718) (-)

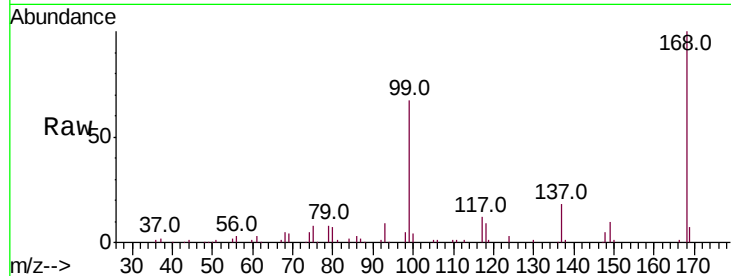




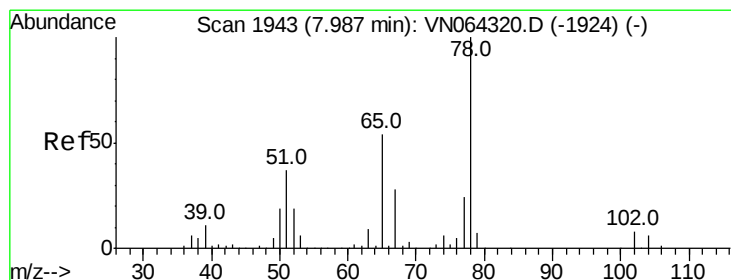
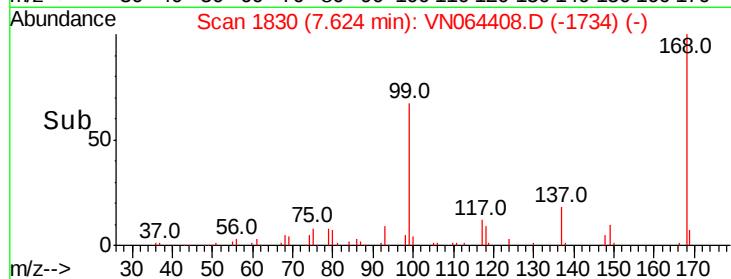
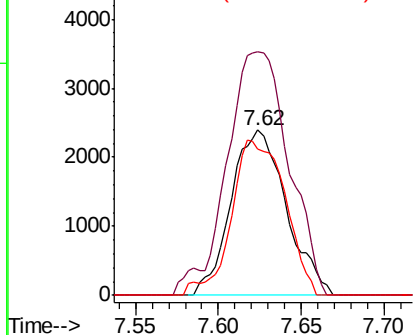
#31
Cyclohexane
Concen: 1.458 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN064408.D
Acq: 30 Oct 2020 18:27

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RECLAMATION-PIT

Tot Ion: 56 Resp: 5550
Ion Ratio Lower Upper
56 100
69 147.6 25.8 38.8#
84 88.8 66.3 99.5

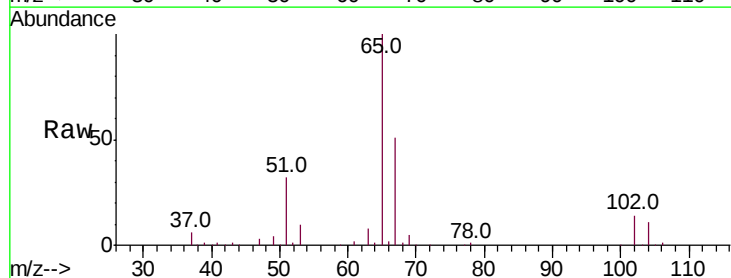


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

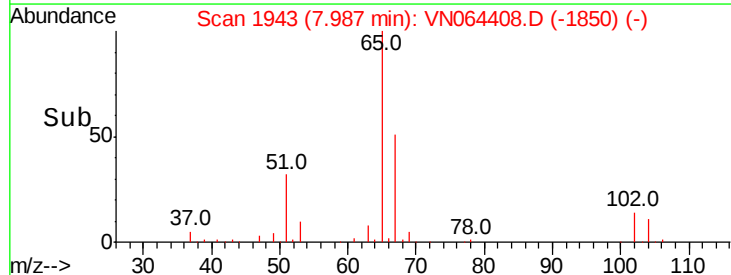
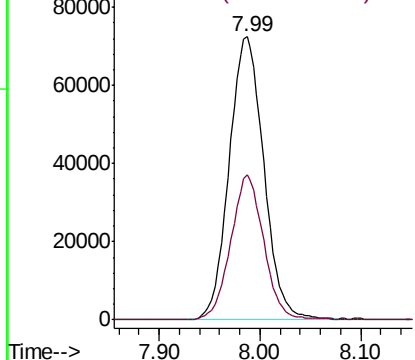


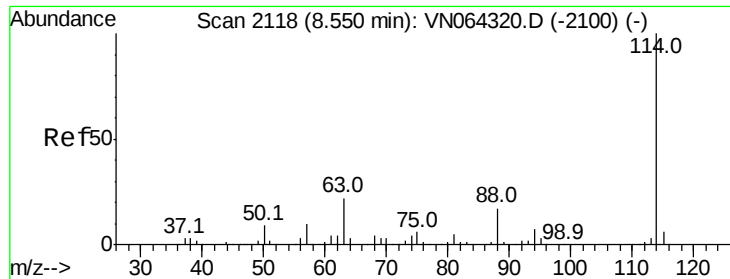
#33
1,2-Dichloroethane-d4
Concen: 52.629 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN064408.D
Acq: 30 Oct 2020 18:27

Tgt Ion: 65 Resp: 172590
Ion Ratio Lower Upper
65 100
67 48.8 0.0 99.2



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

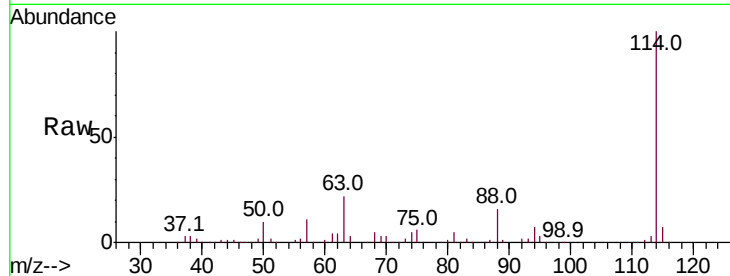




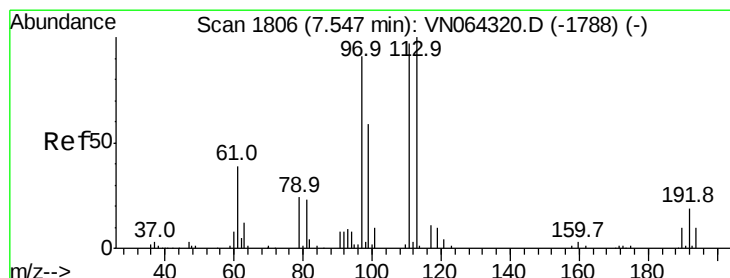
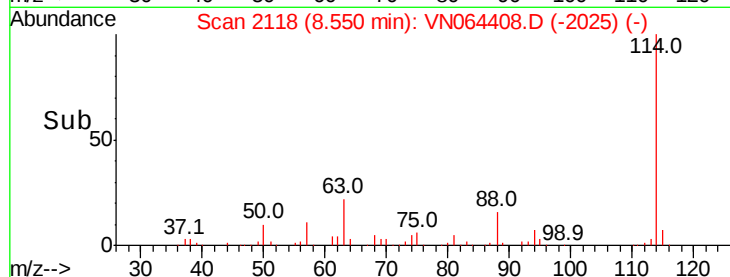
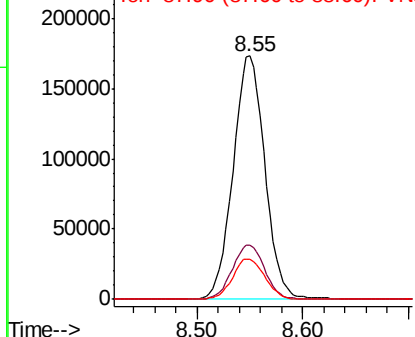
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN064408.D
 Acq: 30 Oct 2020 18:27

Instrument :
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Tot Ion:	114	Resp:	362508
Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	44.6
88	16.2	0.0	33.4

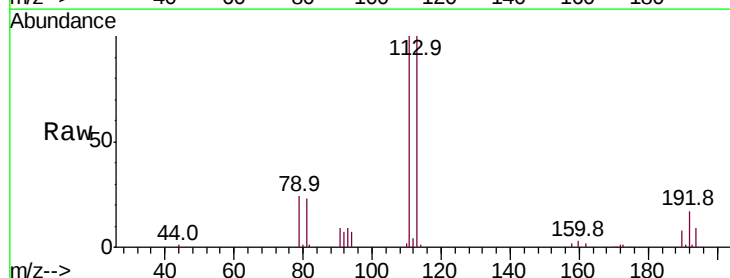


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

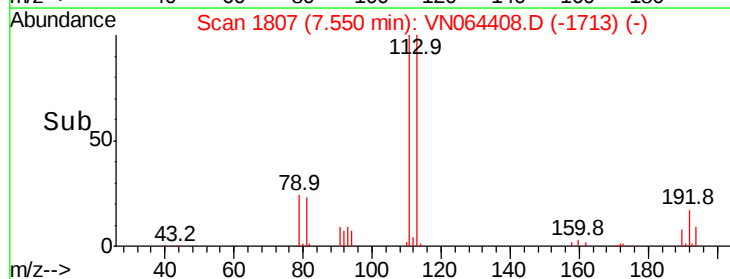
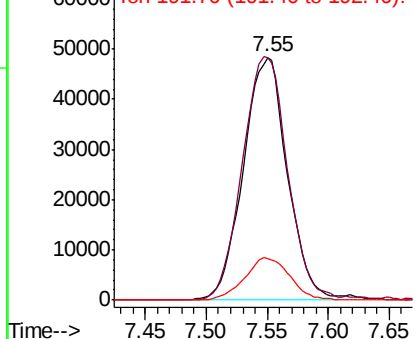


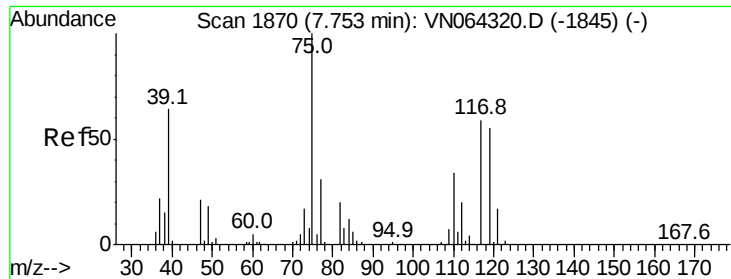
#35
 Dibromofluoromethane
 Concen: 49.849 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064408.D
 Acq: 30 Oct 2020 18:27

Tgt Ion:	113	Resp:	120508
Ion	Ratio	Lower	Upper
113	100		
111	103.5	81.5	122.3
192	17.9	15.0	22.4



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

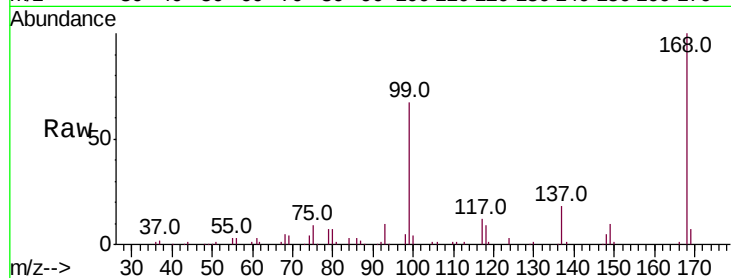




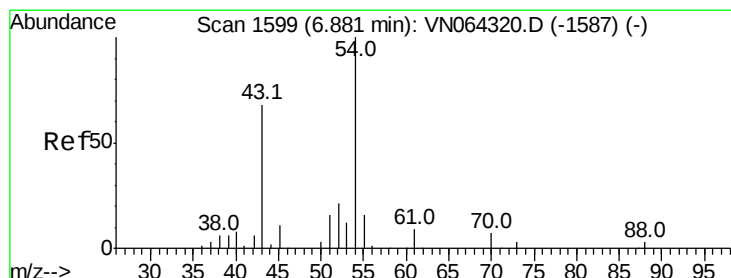
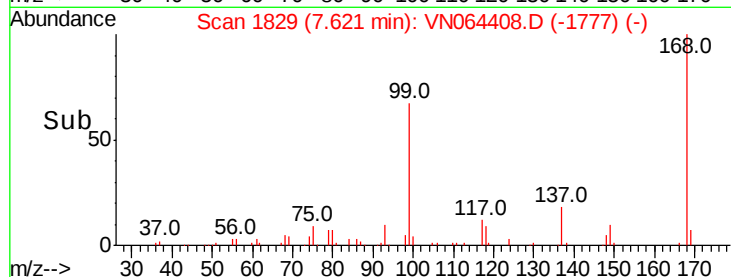
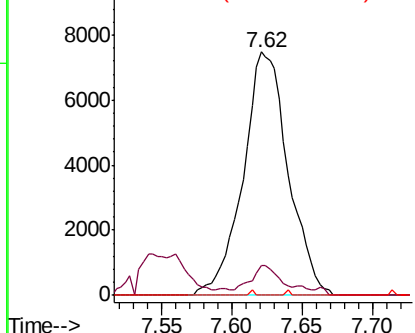
#36
 1,1-Dichloropropene
 Concen: 4.568 ug/l
 RT: 7.62 min Scan# 1829
 Delta R.T. -0.13 min
 Lab File: VN064408.D
 Acq: 30 Oct 2020 18:27

Instrument :
 MSVOA_N
 ClientSampleId :
 RECLAMATION-PIT

Tot Ion: 75 Resp: 16713
 Ion Ratio Lower Upper
 75 100
 110 7.3 16.8 50.3#
 77 0.2 24.2 36.4#

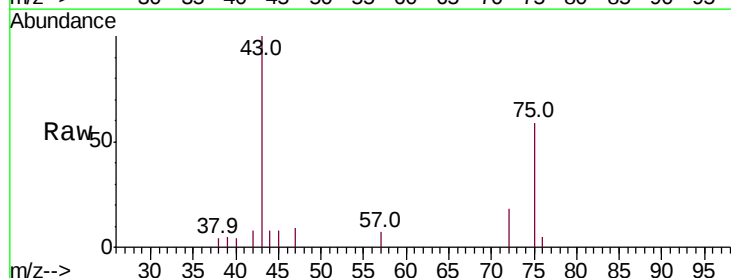


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0

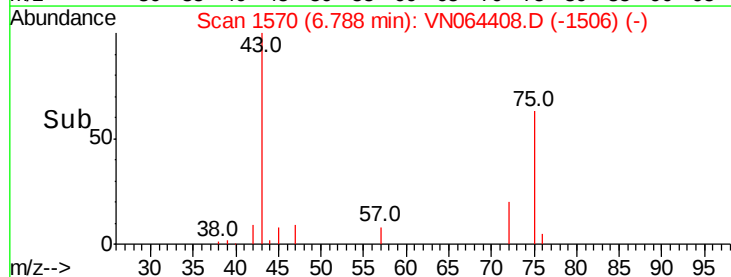
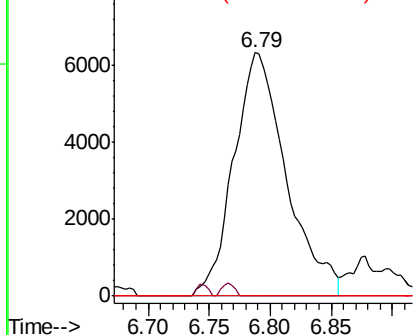


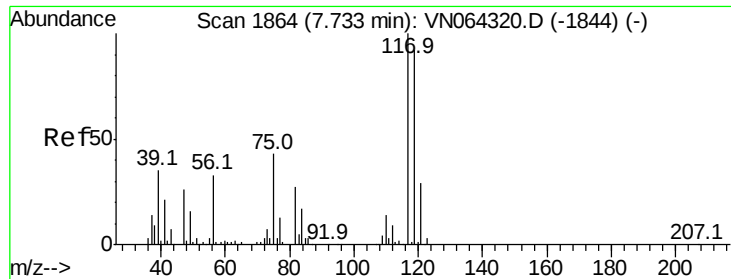
#37
 Ethyl Acetate
 Concen: 5.107 ug/l
 RT: 6.79 min Scan# 1570
 Delta R.T. -0.09 min
 Lab File: VN064408.D
 Acq: 30 Oct 2020 18:27

Tgt Ion: 43 Resp: 18873
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.0 15.0#
 70 0.0 7.1 10.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 5.723 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064408.D

Acq: 30 Oct 2020 18:27

Instrument :

MSVOA_N

ClientSampleId :

RECLAMATION-PIT

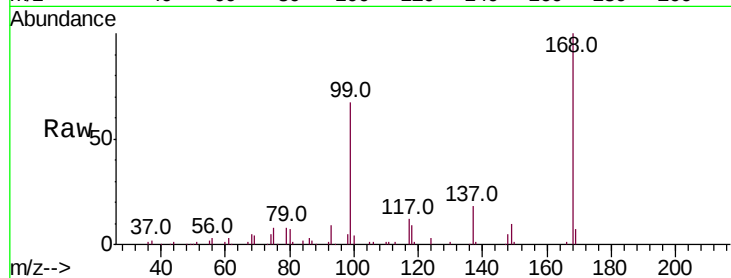
Tot Ion:117 Resp: 24276

Ion Ratio Lower Upper

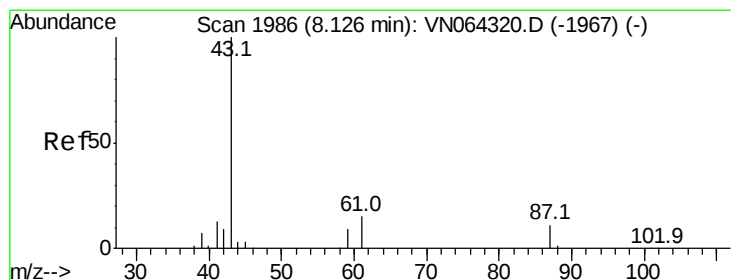
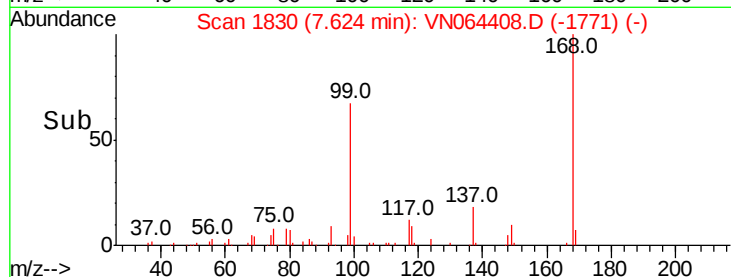
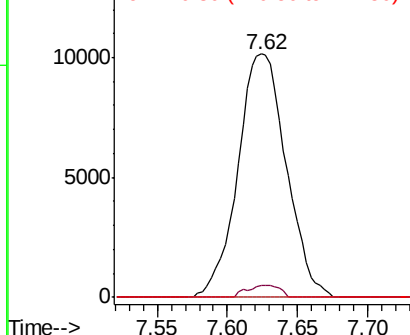
117 100

119 5.1 73.7 110.5#

121 0.0 22.8 34.2#



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



#43

Isopropyl Acetate

Concen: 4.720 ug/l

RT: 8.12 min Scan# 1984

Delta R.T. -0.01 min

Lab File: VN064408.D

Acq: 30 Oct 2020 18:27

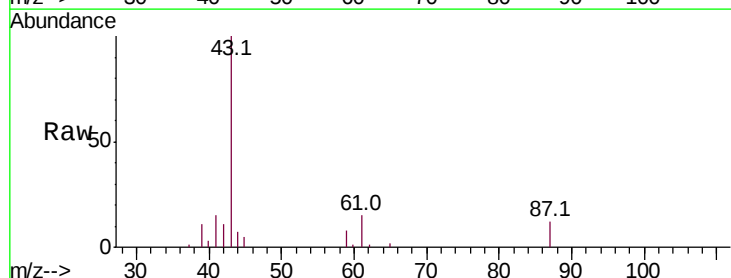
Tgt Ion: 43 Resp: 29820

Ion Ratio Lower Upper

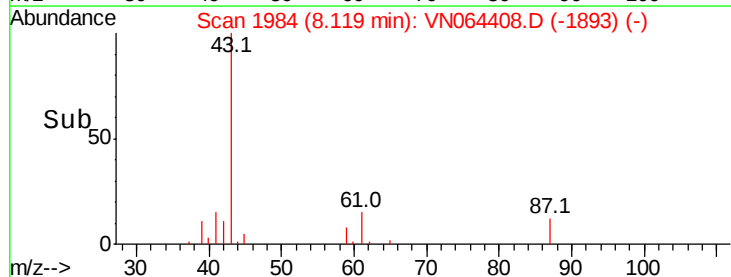
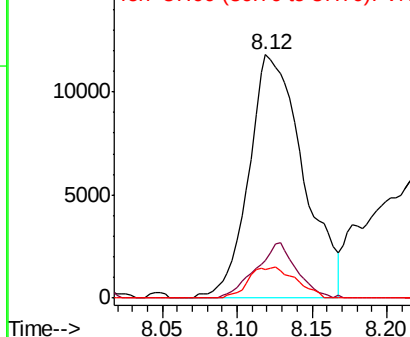
43 100

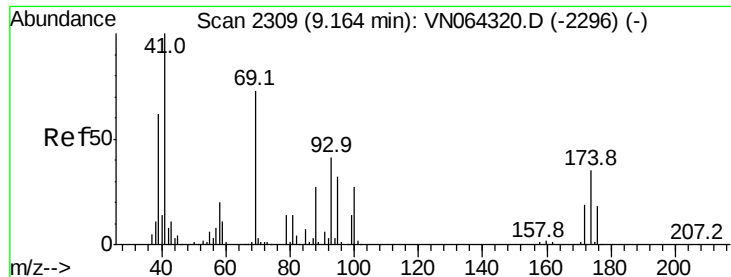
61 17.2 19.1 28.7#

87 11.0 9.3 13.9



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V

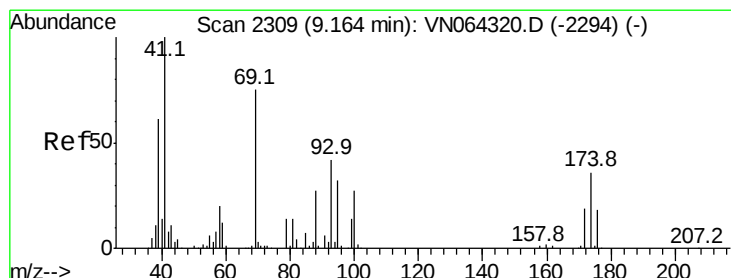
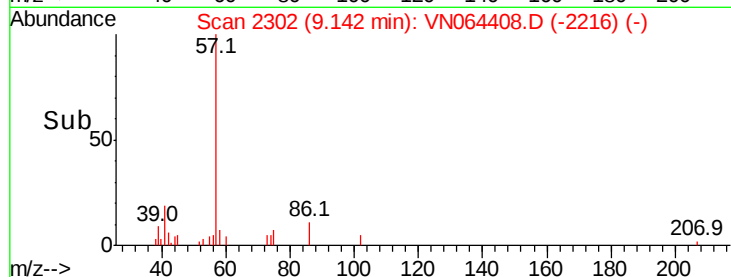
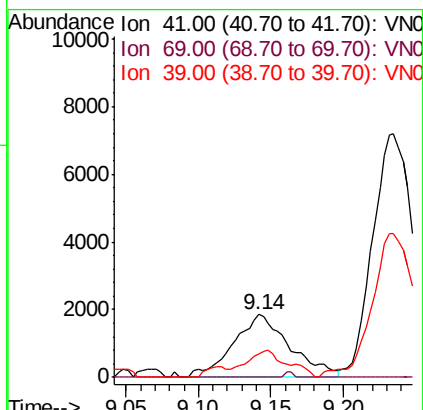
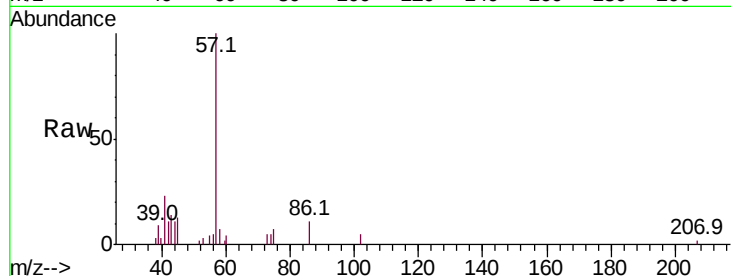




#48
Methvl methacrylate
Concen: 1.544 ug/l
RT: 9.14 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN064408.D
Acq: 30 Oct 2020 18:27

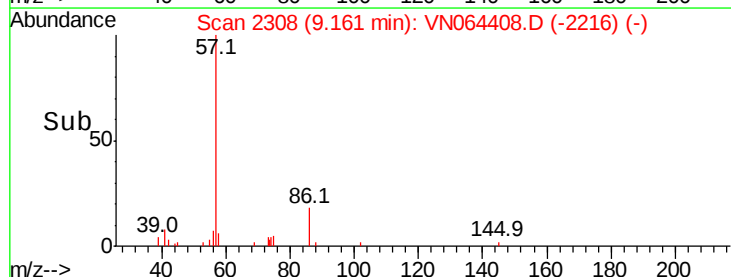
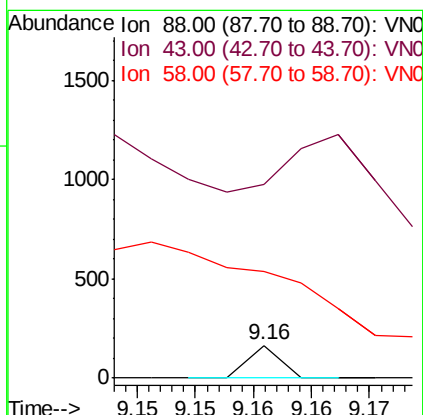
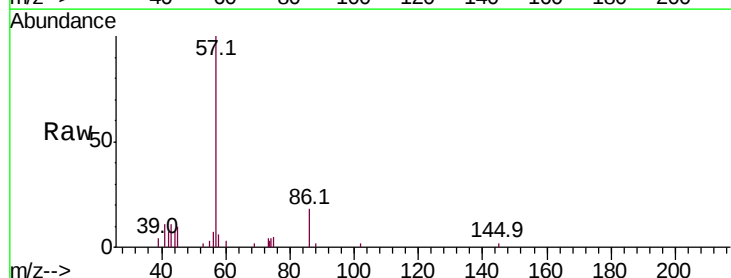
Instrument :
MSVOA_N
ClientSampleId :
RECLAMATION-PIT

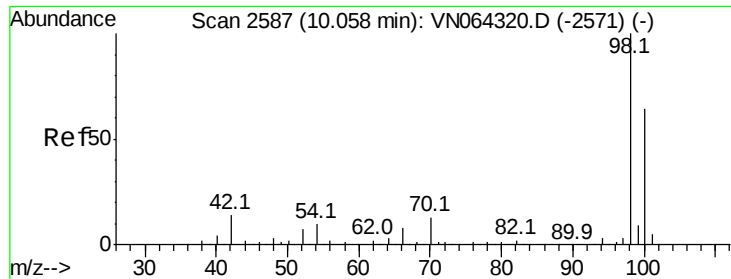
Tot Ion: 41 Resp: 5033
Ion Ratio Lower Upper
41 100
69 0.0 59.1 88.7#
39 30.6 51.3 76.9#



#49
1,4-Dioxane
Concen: 0.666 ug/l
RT: 9.16 min Scan# 2308
Delta R.T. -0.00 min
Lab File: VN064408.D
Acq: 30 Oct 2020 18:27

Tgt Ion: 88 Resp: 32
Ion Ratio Lower Upper
88 100
43 0.0 31.8 47.8#
58 0.0 60.3 90.5#





#50

Toluene-d8

Concen: 51.841 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN064408.D

Acq: 30 Oct 2020 18:27

Instrument :

MSVOA_N

ClientSampleId :

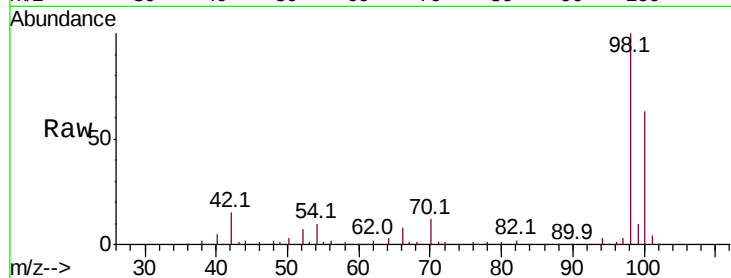
RECLAMATION-PIT

Tot Ion: 98 Resp: 463556

Ion Ratio Lower Upper

98 100

100 63.2 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VN064320.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN064320.D (-2571) (-)

10.06

250000

200000

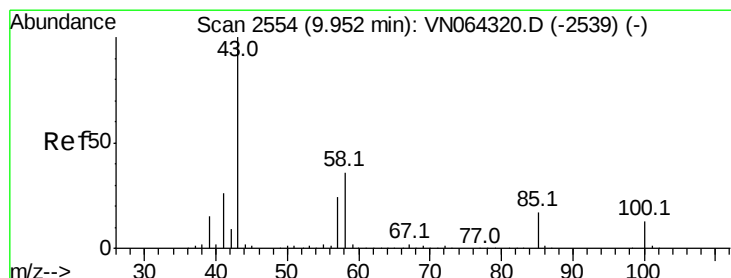
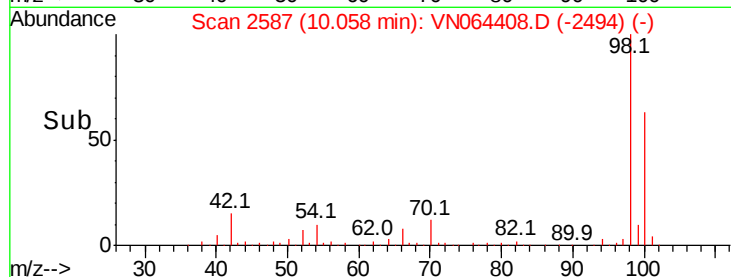
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 27.485 ug/l

RT: 9.95 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN064408.D

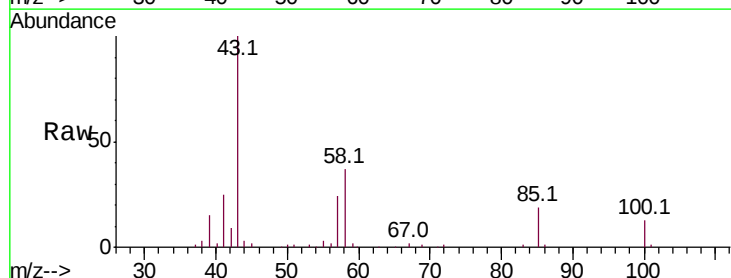
Acq: 30 Oct 2020 18:27

Tgt Ion: 43 Resp: 100927

Ion Ratio Lower Upper

43 100

58 37.4 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VN064320.D (-2539) (-)

Ion 58.00 (57.70 to 58.70): VN064320.D (-2539) (-)

9.95

60000

50000

40000

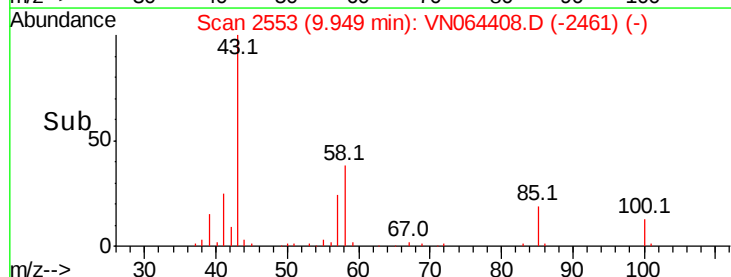
30000

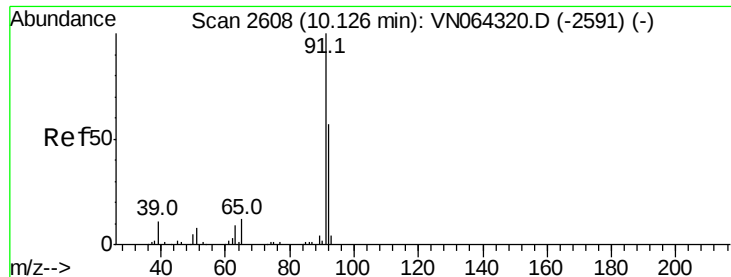
20000

10000

0

Time-->





#52

Toluene

Concen: 1.541 ug/l

RT: 10.12 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN064408.D

Acq: 30 Oct 2020 18:27

Instrument :

MSVOA_N

ClientSampleId :

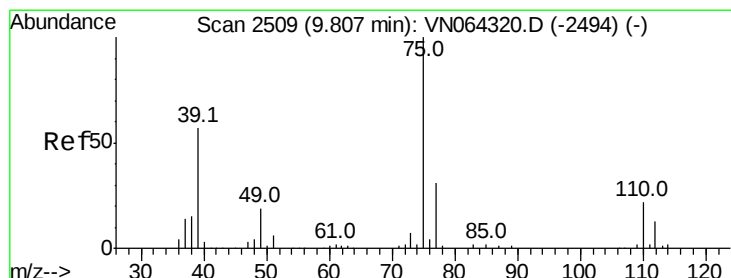
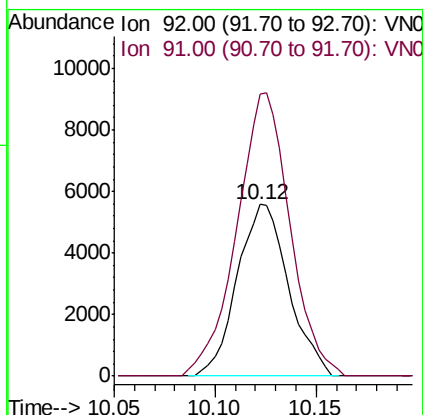
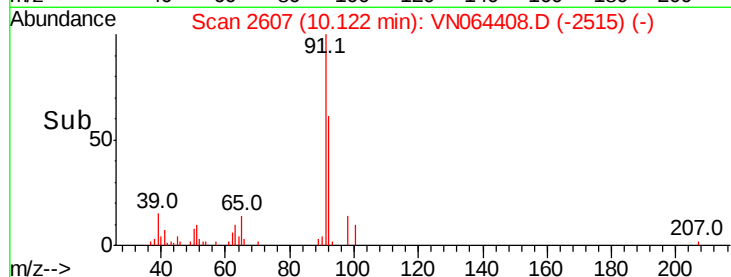
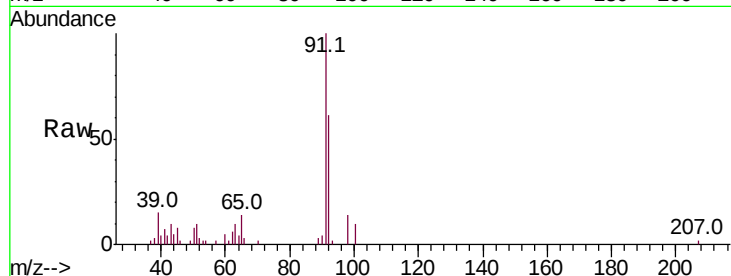
RECLAMATION-PIT

Tot Ion: 92 Resp: 9902

Ion Ratio Lower Upper

92 100

91 171.1 139.9 209.9



#54

cis-1,3-Dichloropropene

Concen: 3.707 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN064408.D

Acq: 30 Oct 2020 18:27

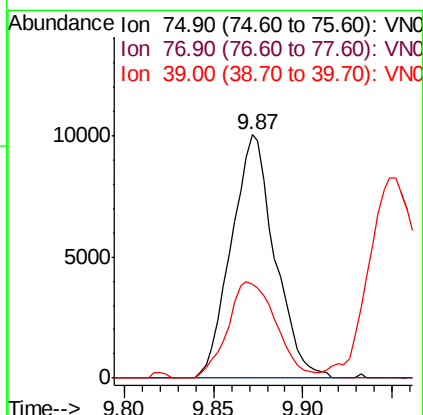
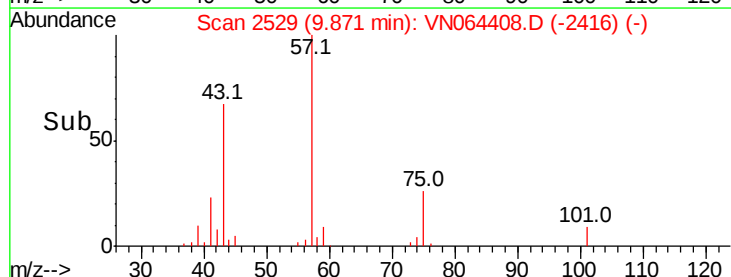
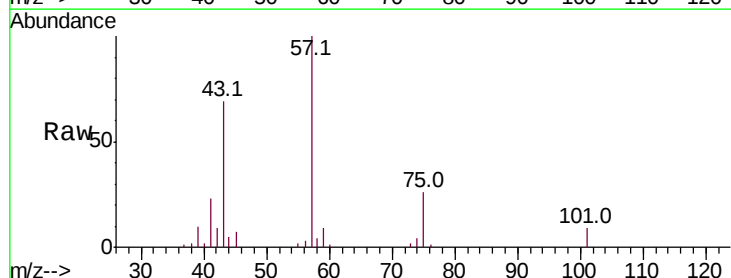
Tgt Ion: 75 Resp: 17058

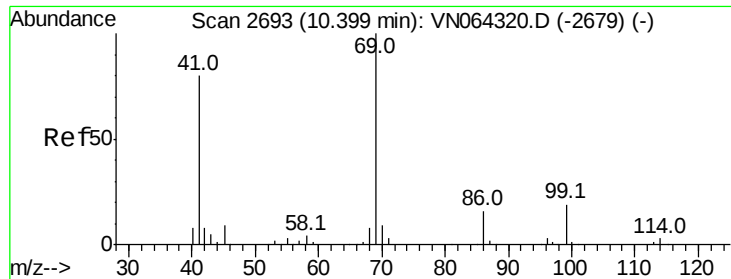
Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.4#

39 38.6 45.5 68.3#





#56

Ethyl methacrylate

Concen: 2.780 ug/l

RT: 10.32 min Scan# 2670

Delta R.T. -0.07 min

Lab File: VN064408.D

Acq: 30 Oct 2020 18:27

Instrument :

MSVOA_N

ClientSampleId :

RECLAMATION-PIT

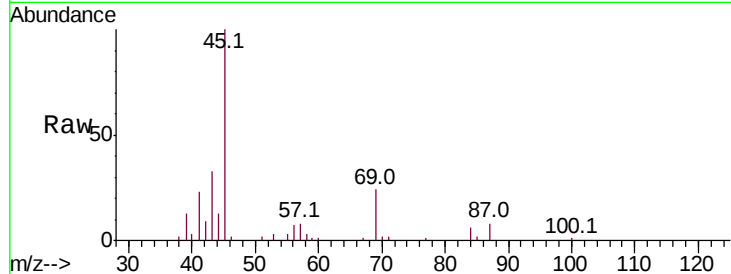
Tot Ion: 69 Resp: 10676

Ion Ratio Lower Upper

69 100

41 122.1 61.4 92.2#

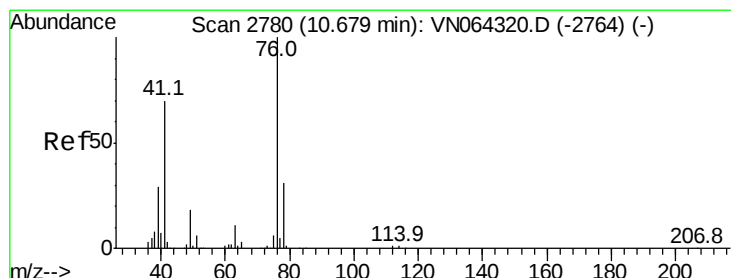
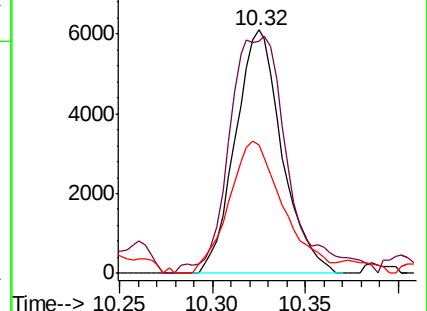
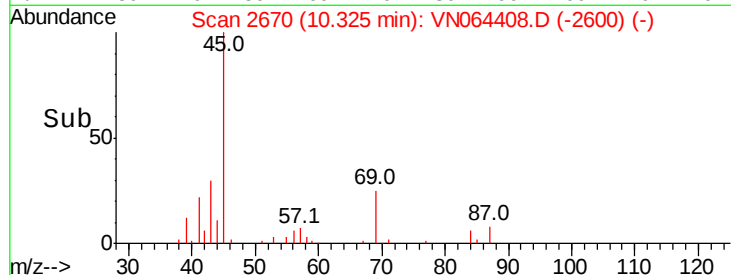
39 63.7 36.5 54.7#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.388 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.05 min

Lab File: VN064408.D

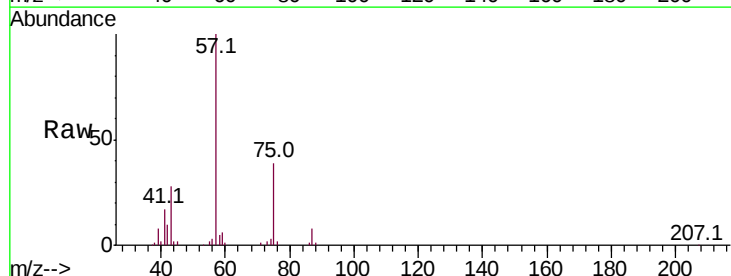
Acq: 30 Oct 2020 18:27

Tgt Ion: 76 Resp: 1681

Ion Ratio Lower Upper

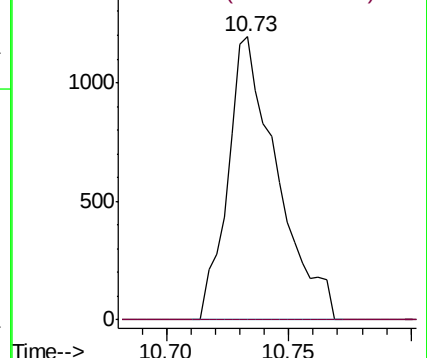
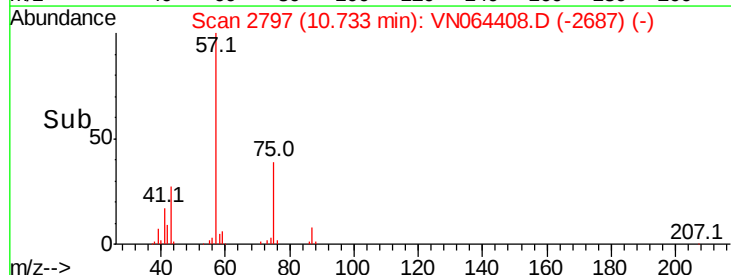
76 100

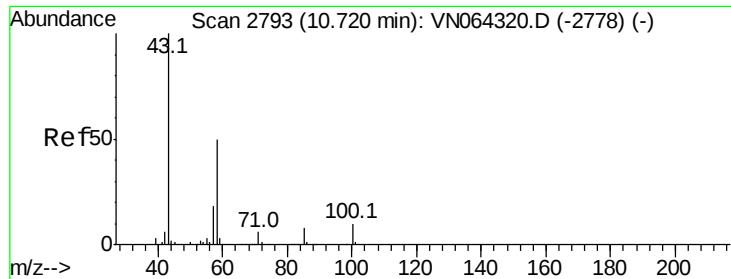
78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 10.118 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN064408.D

Acq: 30 Oct 2020 18:27

Instrument :

MSVOA_N

ClientSampleId :

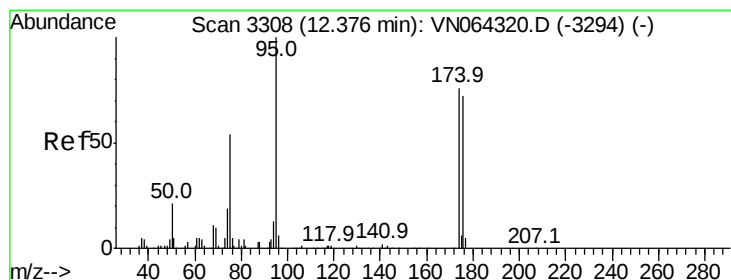
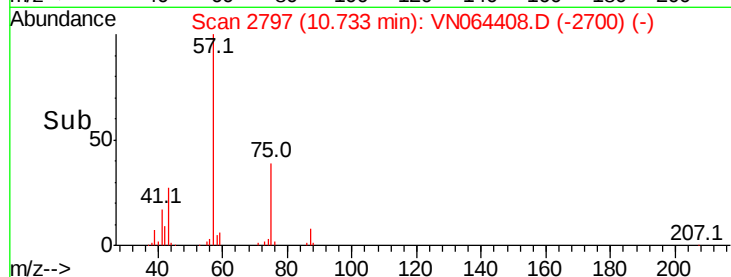
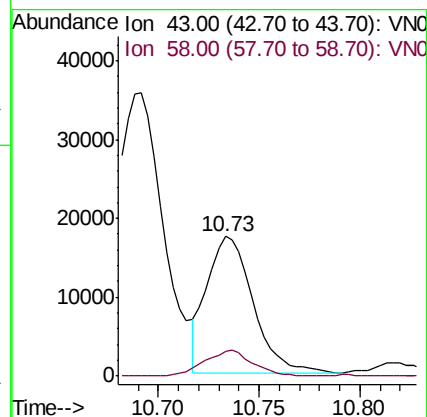
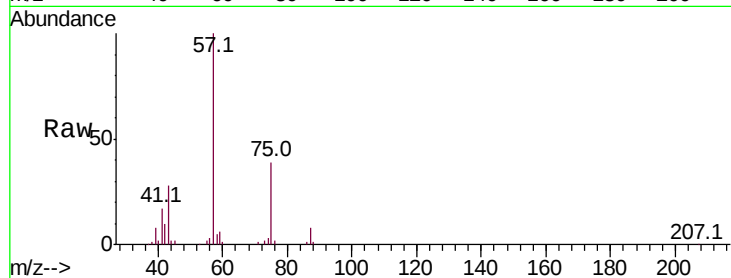
RECLAMATION-PIT

Tot Ion: 43 Resp: 27365

Ion Ratio Lower Upper

43 100

58 19.5 25.0 75.0#



#62

4-Bromofluorobenzene

Concen: 57.189 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN064408.D

Acq: 30 Oct 2020 18:27

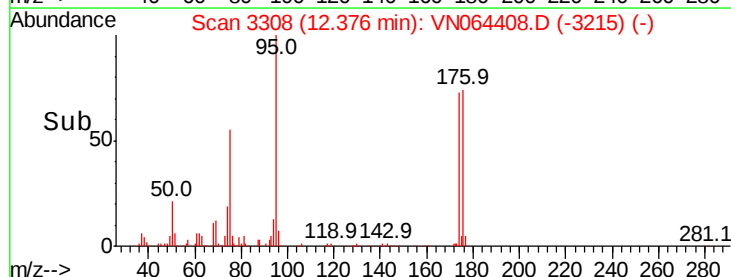
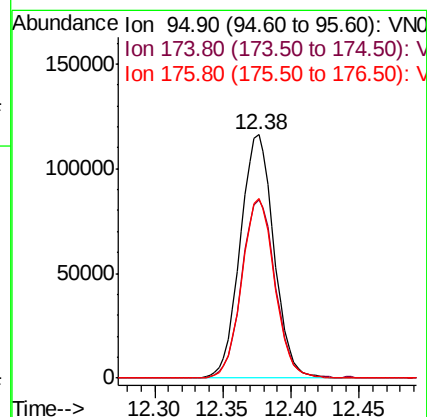
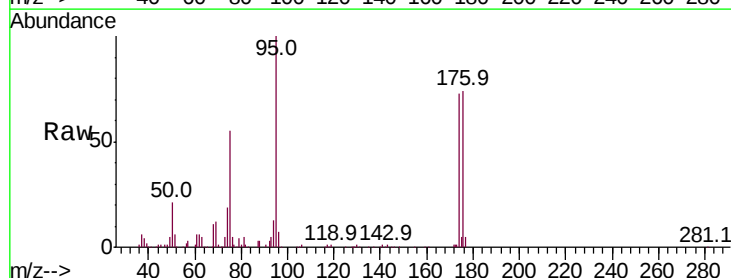
Tgt Ion: 95 Resp: 199382

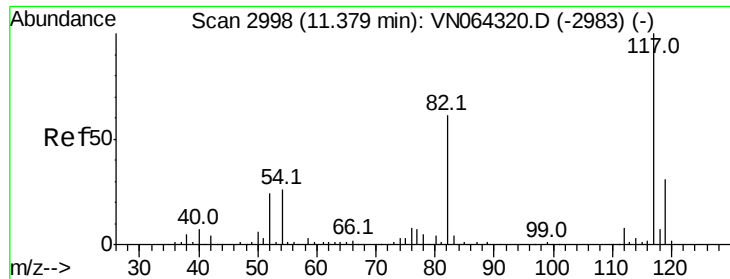
Ion Ratio Lower Upper

95 100

174 73.3 0.0 147.4

176 72.0 0.0 143.6

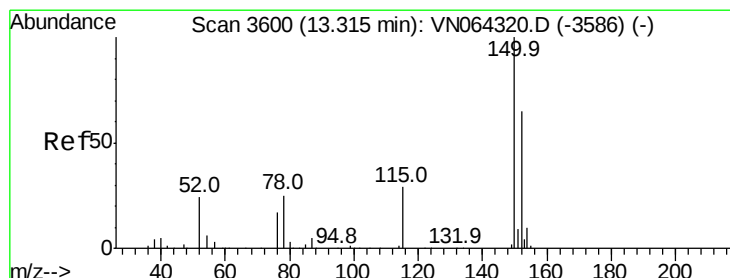
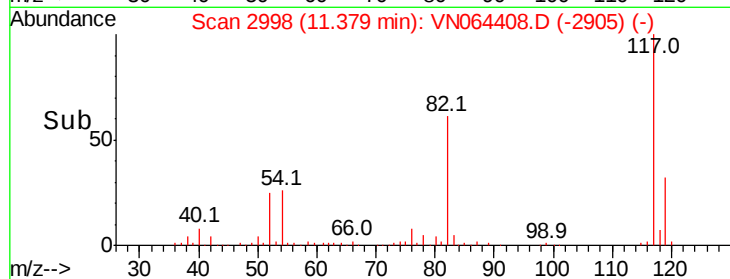
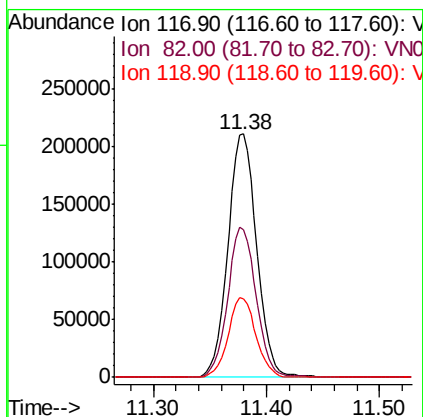
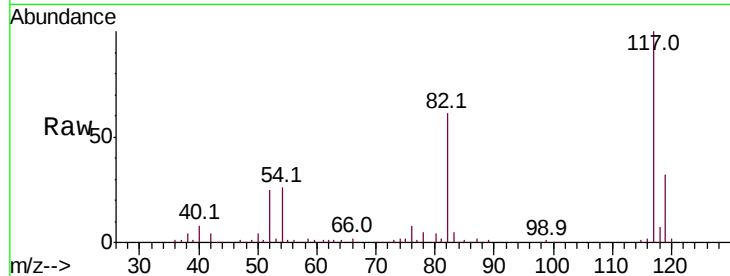




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN064408.D
Acq: 30 Oct 2020 18:27

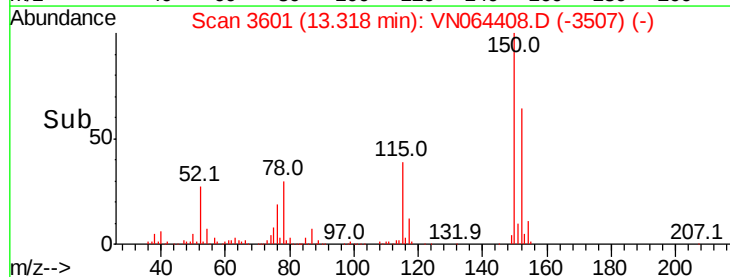
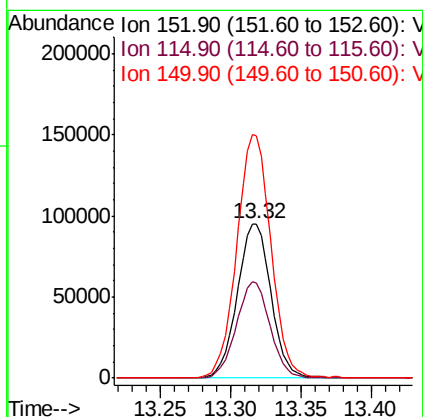
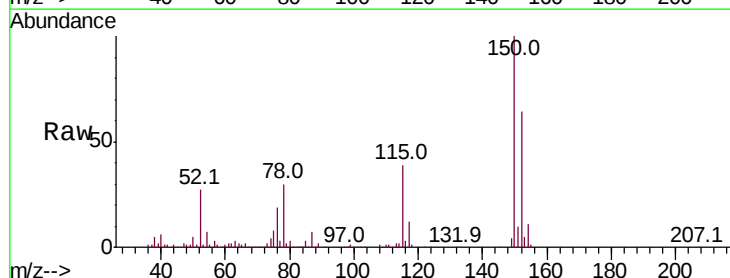
Instrument :
MSVOA_N
ClientSampleId :
RECLAMATION-PIT

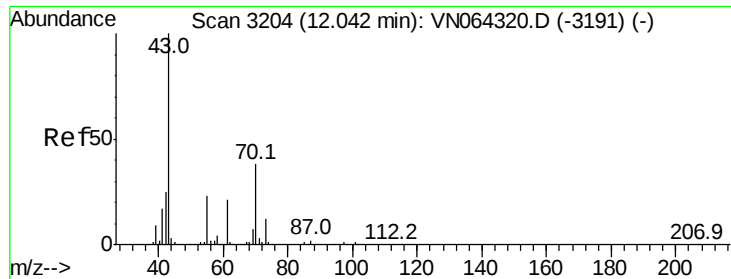
Tot Ion:117 Resp: 373187
Ion Ratio Lower Upper
117 100
82 60.7 48.8 73.2
119 32.4 25.1 37.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN064408.D
Acq: 30 Oct 2020 18:27

Tgt Ion:152 Resp: 159422
Ion Ratio Lower Upper
152 100
115 62.4 31.5 94.5
150 159.9 0.0 346.2

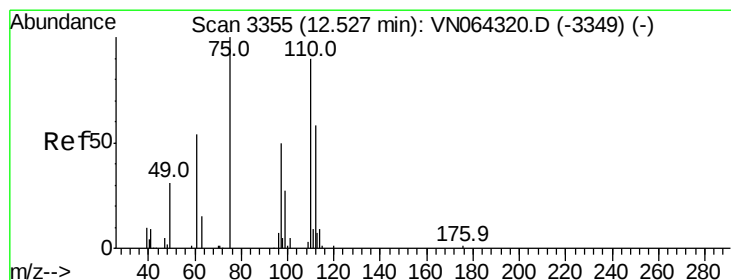
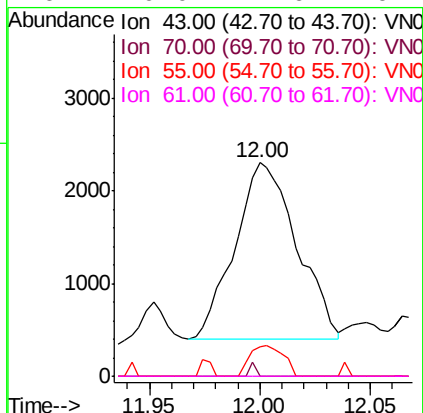
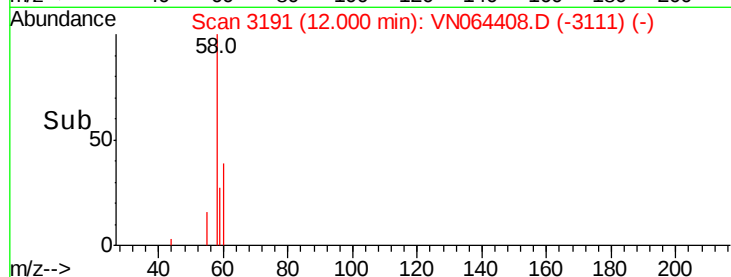
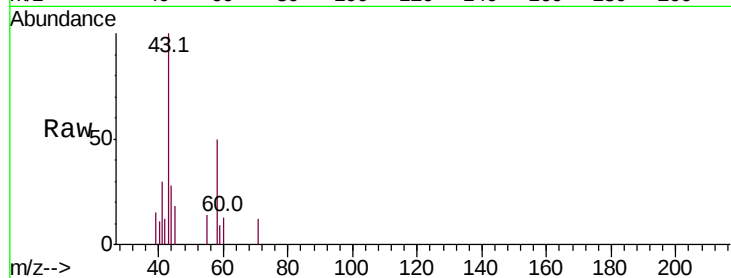




#74
N-amvl acetate
Concen: 0.700 ug/l
RT: 12.00 min Scan# 3191
Delta R.T. -0.04 min
Lab File: VN064408.D
Acq: 30 Oct 2020 18:27

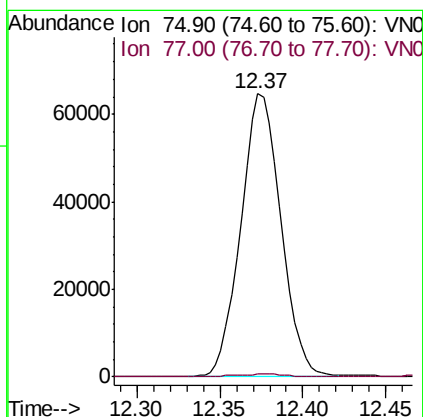
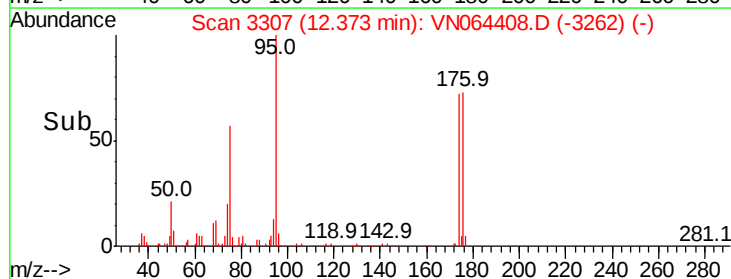
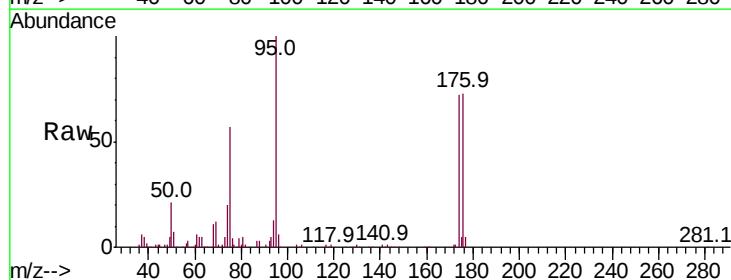
Instrument :
MSVOA_N
ClientSampleId :
RECLAMATION-PIT

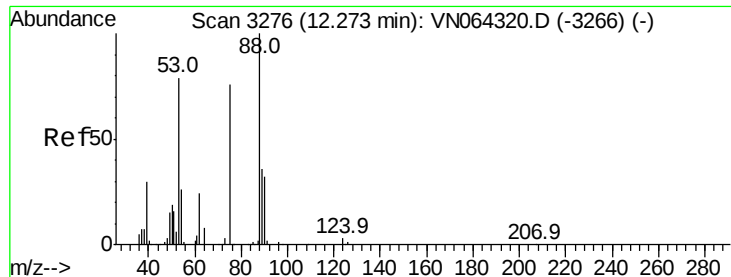
Tot Ion: 43 Resp: 3680
Ion Ratio Lower Upper
43 100
70 0.8 30.6 45.8#
55 9.6 18.2 27.4#
61 0.0 17.6 26.4#



#76
1,2,3-Trichloropropane
Concen: 28.575 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. -0.15 min
Lab File: VN064408.D
Acq: 30 Oct 2020 18:27

Tgt Ion: 75 Resp: 109093
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 82.312 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN064408.D

Acq: 30 Oct 2020 18:27

Instrument :

MSVOA_N

ClientSampleId :

RECLAMATION-PIT

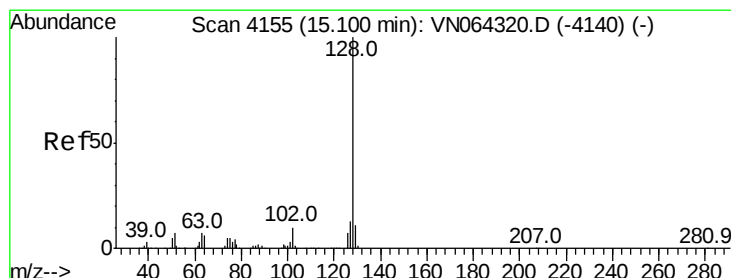
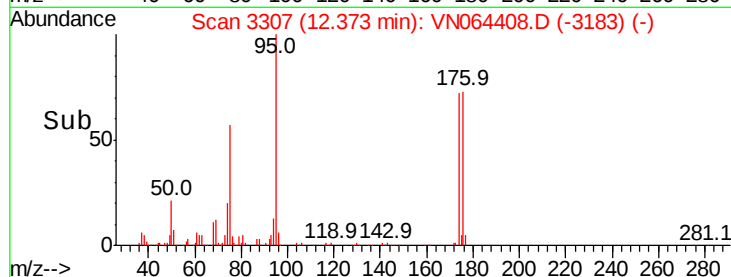
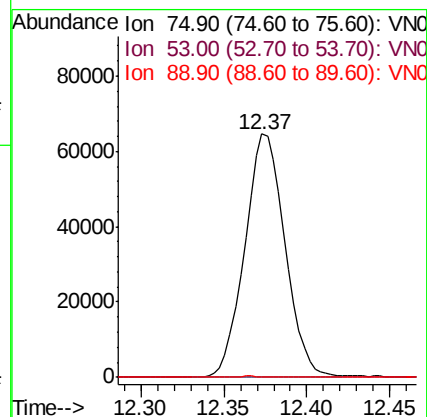
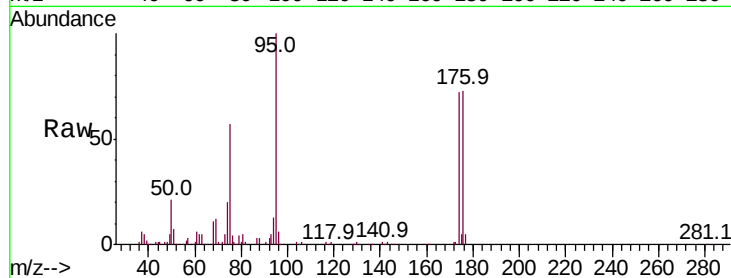
Tot Ion: 75 Resp: 109093

Ion Ratio Lower Upper

75 100

53 0.0 81.8 122.8#

89 0.2 39.9 59.9#



#95

Naphthalene

Concen: 2.500 ug/l

RT: 15.10 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN064408.D

Acq: 30 Oct 2020 18:27

Tgt Ion: 128 Resp: 1014

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.6 13.0#

