

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111920\
 Data File : VN064749.D
 Acq On : 19 Nov 2020 21:38
 Operator : JC/MD
 Sample : L4771-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ND-SOIL

Quant Time: Nov 20 03:56:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 18 15:29:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	202384	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	456193	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	476021	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	261930	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	205427	57.70	ug/l	0.00
Spiked Amount			Recovery	=	115.40%	
35) Dibromofluoromethane	7.55	113	139950	53.90	ug/l	0.00
Spiked Amount			Recovery	=	107.80%	
50) Toluene-d8	10.06	98	570526	48.35	ug/l	0.00
Spiked Amount			Recovery	=	96.70%	
62) 4-Bromofluorobenzene	12.38	95	291921	66.18	ug/l	0.00
Spiked Amount			Recovery	=	132.36%	

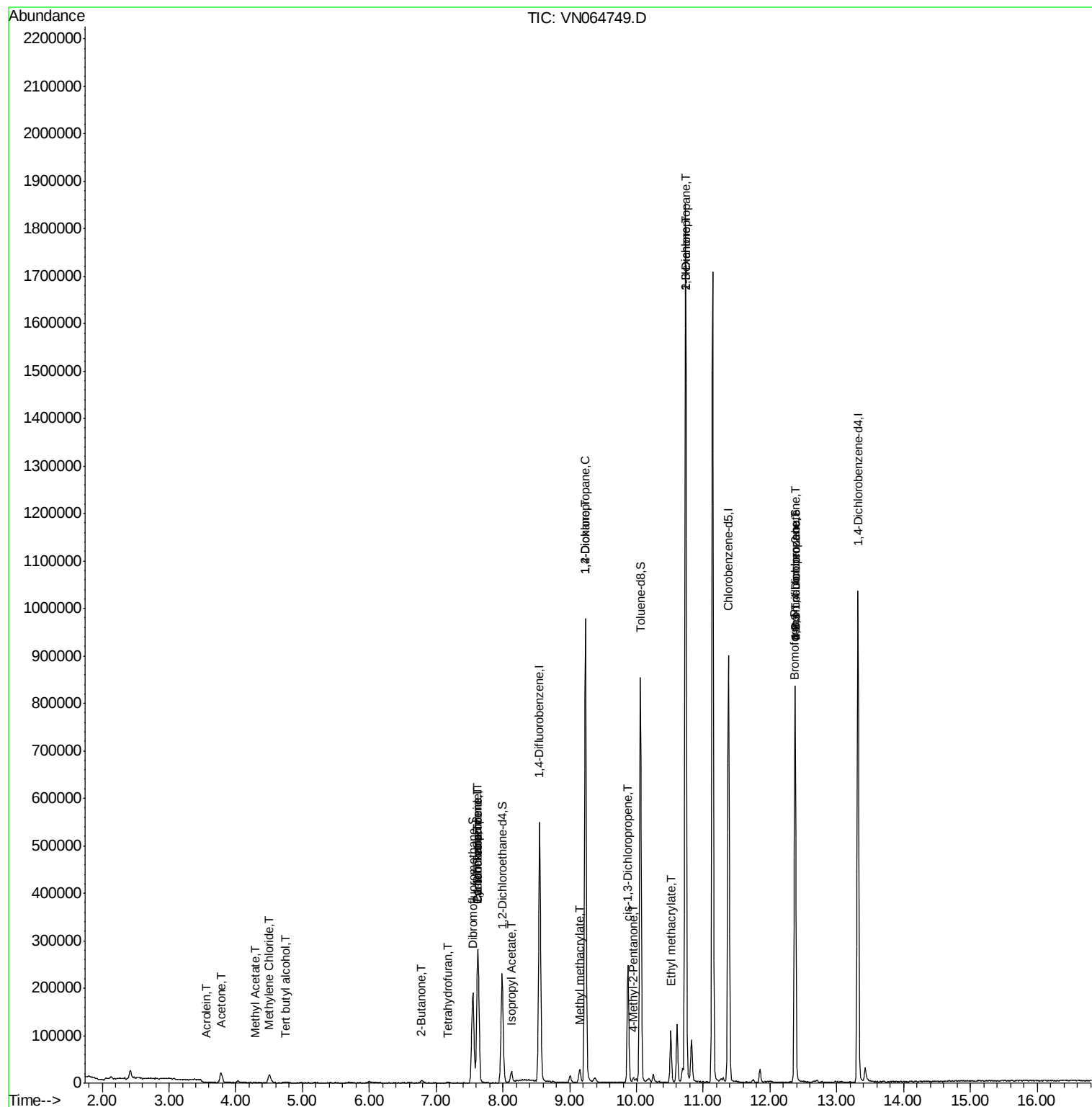
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	286	0.828	ug/l #	70
13) Acrolein	3.56	56	165	2.040	ug/l #	11
16) Acetone	3.78	43	35069	44.951	ug/l	90
18) Methyl Acetate	4.29	43	1766	1.992	ug/l #	70
20) Methylene Chloride	4.51	84	11090	4.206	ug/l	94
25) 2-Butanone	6.78	43	1759	1.292	ug/l	94
29) Tetrahydrofuran	7.17	42	1050	1.142	ug/l #	37
31) Cyclohexane	7.63	56	5891	1.531	ug/l #	38
36) 1,1-Dichloropropene	7.62	75	20324	4.330	ug/l #	48
38) Carbon Tetrachloride	7.63	117	22785	4.568	ug/l #	16
43) Isopropyl Acetate	8.13	43	28474	3.738	ug/l	99
45) 1,2-Dichloropropane	9.23	63	728	0.209	ug/l #	45
48) Methyl methacrylate	9.14	41	7375	2.052	ug/l #	30
49) 1,4-Dioxane	9.23	88	29	0.647	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	7055	7.626	ug/l	99
54) cis-1,3-Dichloropropene	9.87	75	36823	6.433	ug/l #	70
56) Ethyl methacrylate	10.52	69	833	2.824	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	17155	3.066	ug/l #	42
59) 2-Hexanone	10.74	43	279786	88.471	ug/l #	54
71) Bromoform	12.36	173	261	2.531	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	152304	26.987	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	152304	68.947	ug/l #	5

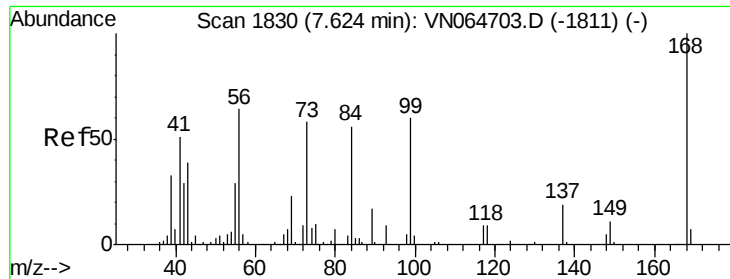
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N111820W.M
Quant Title : SW846 8260
QLast Update : Wed Nov 18 15:29:54 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064749.D

Acq: 19 Nov 2020 21:38

Instrument :

MSVOA_N

ClientSampleId :

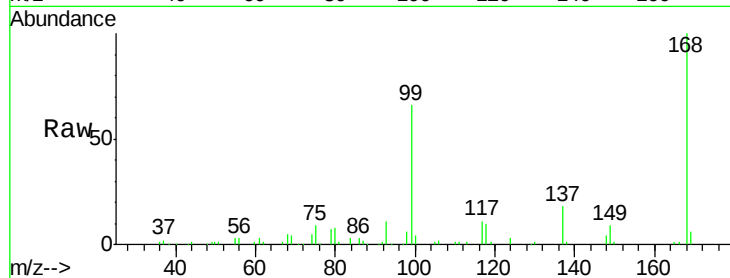
ND-SOIL

Tot Ion:168 Resp: 202384

Ion Ratio Lower Upper

168 100

99 66.2 55.7 83.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

80000

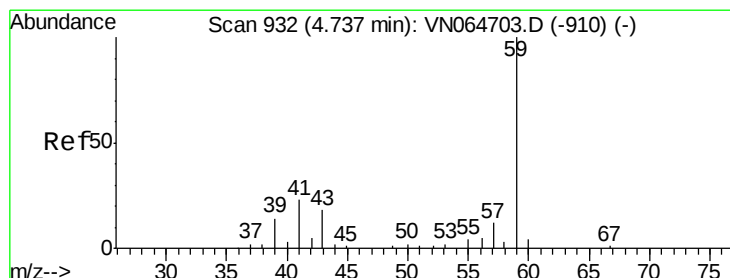
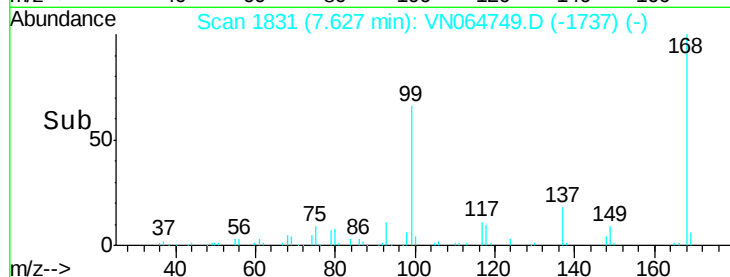
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.828 ug/l

RT: 4.75 min Scan# 936

Delta R.T. 0.01 min

Lab File: VN064749.D

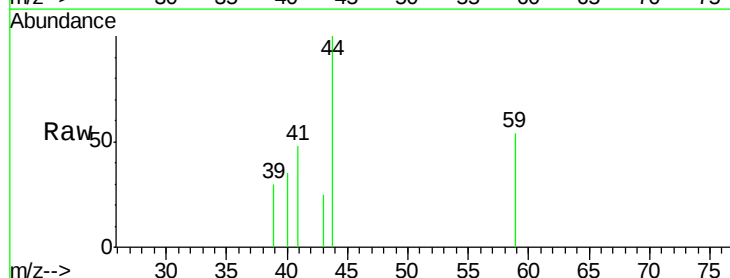
Acq: 19 Nov 2020 21:38

Tgt Ion: 59 Resp: 286

Ion Ratio Lower Upper

59 100

57 0.0 9.1 13.7#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.75

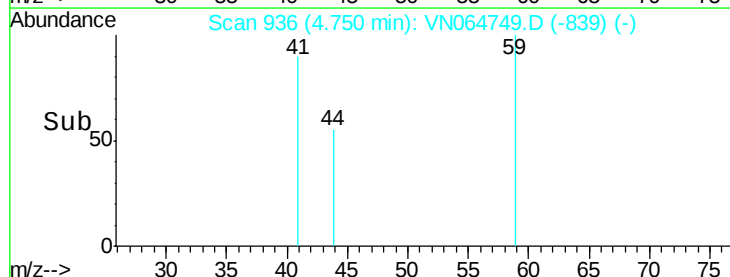
300

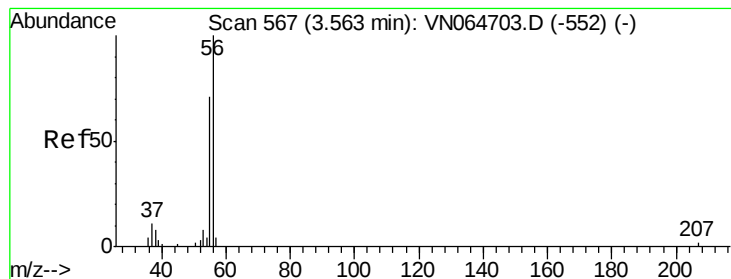
200

100

0

Time--> 4.73 4.74 4.75 4.76 4.77





#13

Acrolein

Concen: 2.040 ug/l

RT: 3.56 min Scan# 566

Delta R.T. -0.00 min

Lab File: VN064749.D

Acq: 19 Nov 2020 21:38

Instrument :

MSVOA_N

ClientSampled :

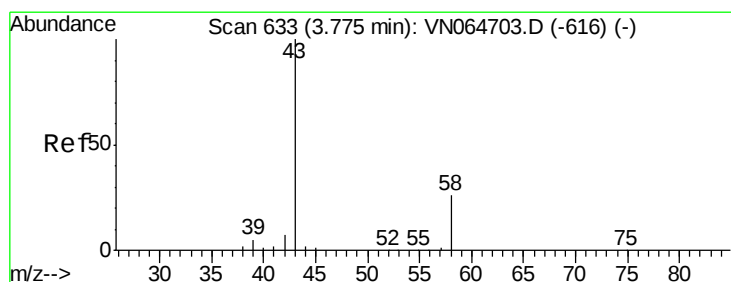
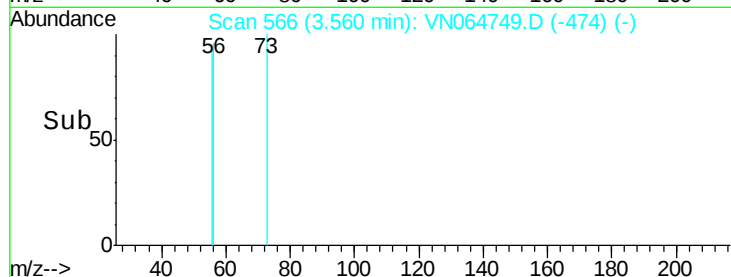
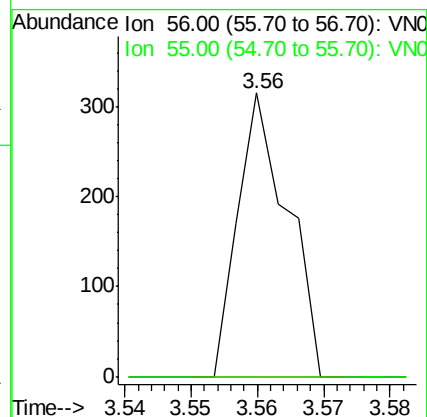
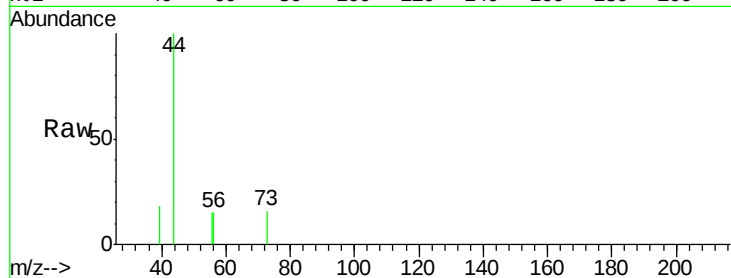
ND-SOIL

Tot Ion: 56 Resp: 165

Ion Ratio Lower Upper

56 100

55 0.0 61.8 92.6#



#16

Acetone

Concen: 44.951 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN064749.D

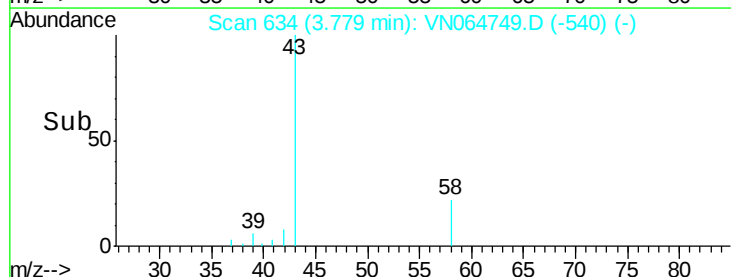
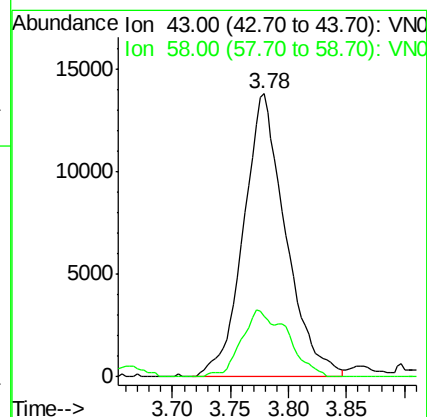
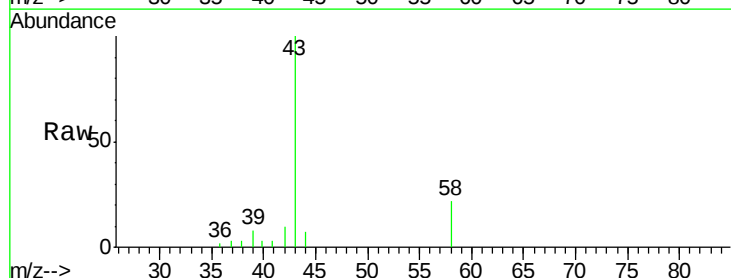
Acq: 19 Nov 2020 21:38

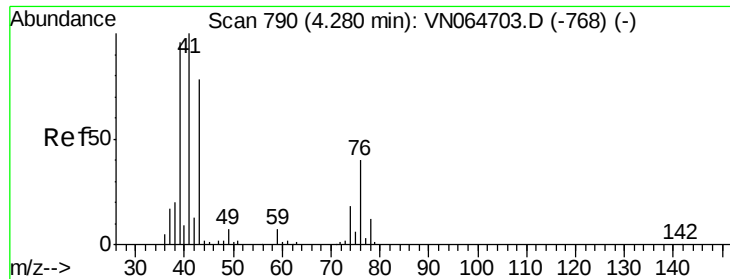
Tgt Ion: 43 Resp: 35069

Ion Ratio Lower Upper

43 100

58 21.6 21.2 31.8

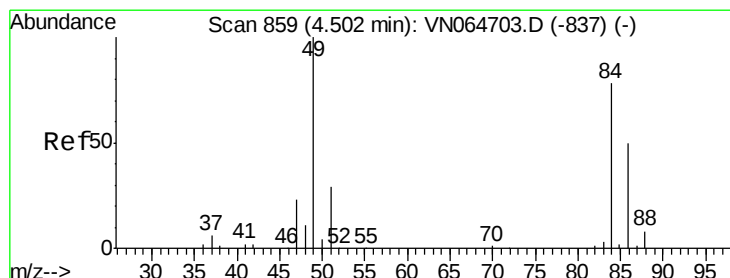
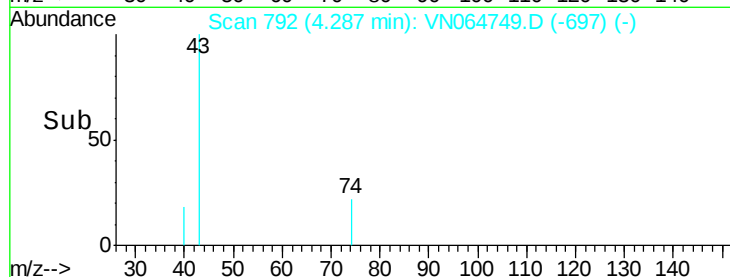
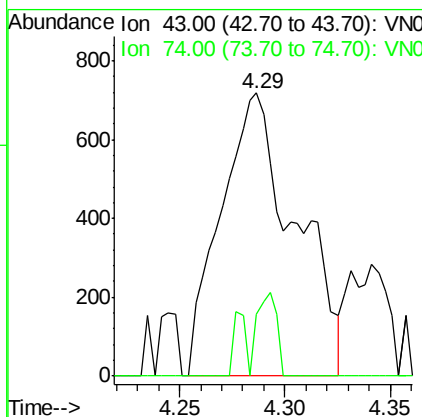
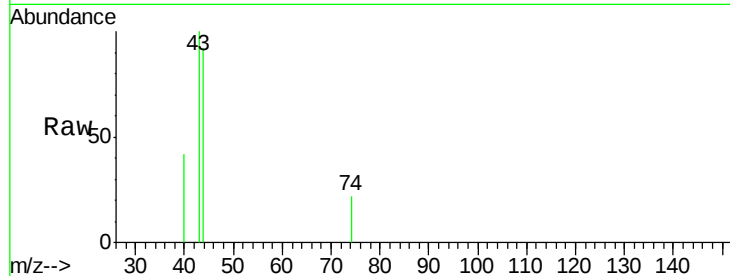




#18
Methvl Acetate
Concen: 1.992 ug/l
RT: 4.29 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN064749.D
Acq: 19 Nov 2020 21:38

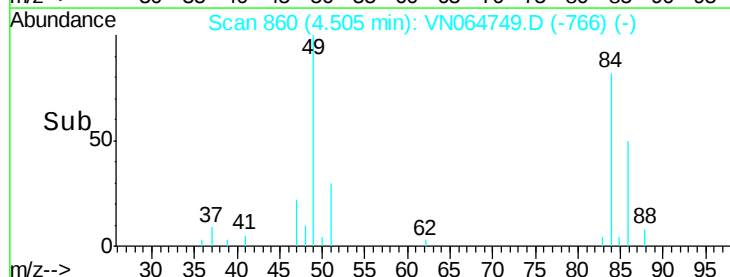
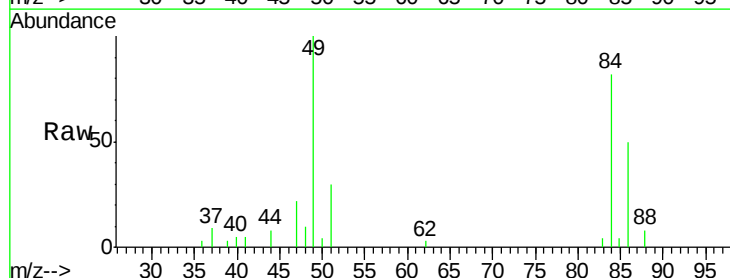
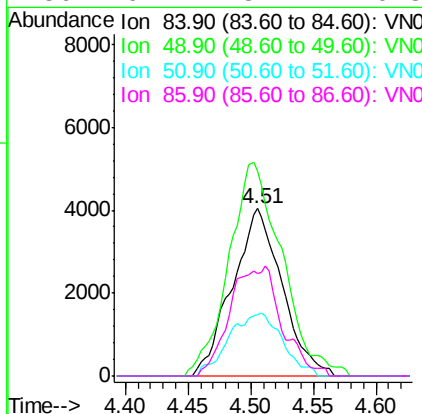
Instrument :
MSVOA_N
ClientSampled :
ND-SOIL

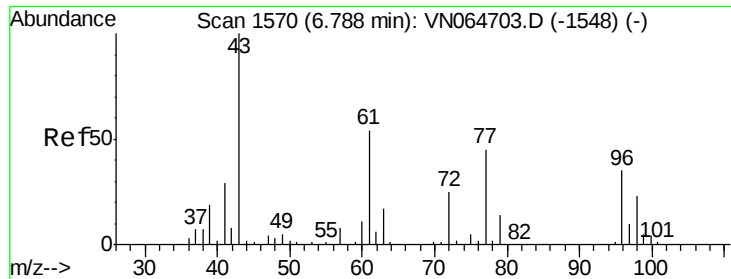
Tot Ion: 43 Resp: 1766
Ion Ratio Lower Upper
43 100
74 7.8 17.6 26.4#



#20
Methylene Chloride
Concen: 4.206 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN064749.D
Acq: 19 Nov 2020 21:38

Tgt Ion: 84 Resp: 11090
Ion Ratio Lower Upper
84 100
49 118.7 102.4 153.6
51 36.5 29.4 44.2
86 61.2 51.2 76.8

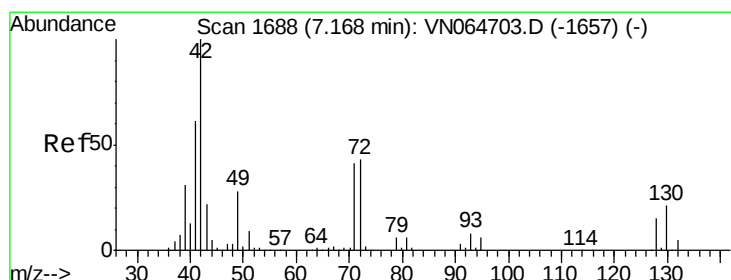
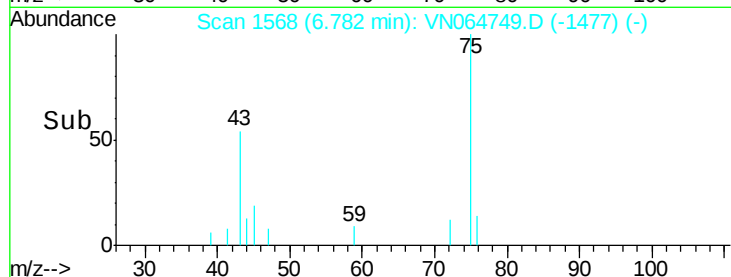
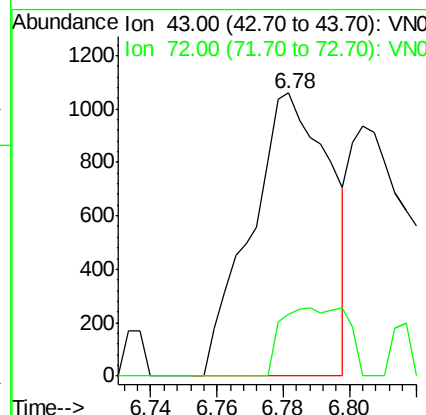
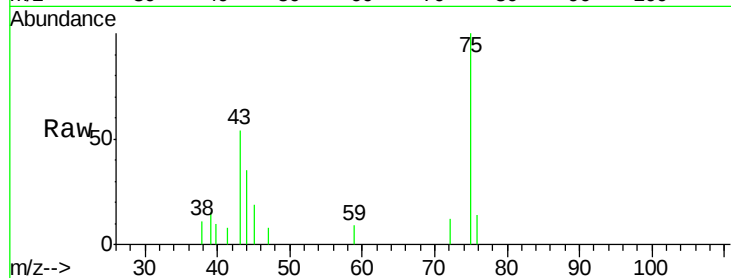




#25
2-Butanone
Concen: 1.292 ug/l
RT: 6.78 min Scan# 1568
Delta R.T. -0.01 min
Lab File: VN064749.D
Acq: 19 Nov 2020 21:38

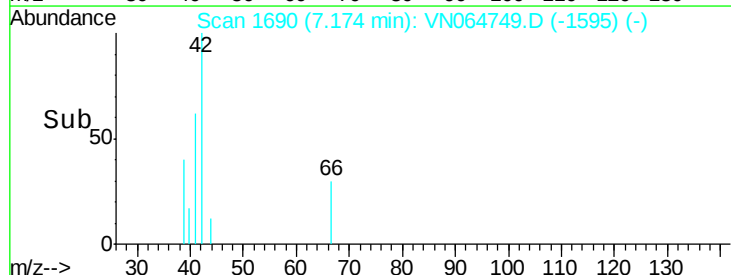
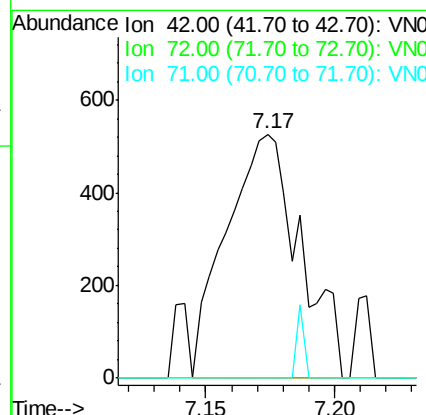
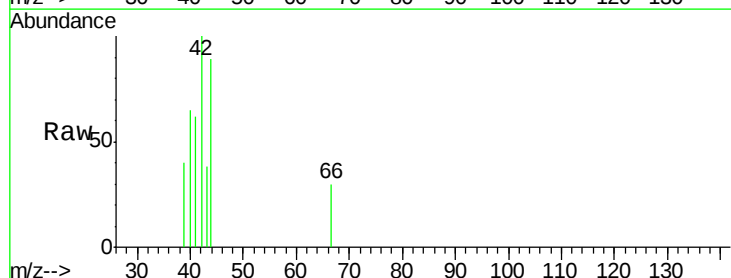
Instrument :
MSVOA_N
ClientSampled :
ND-SOIL

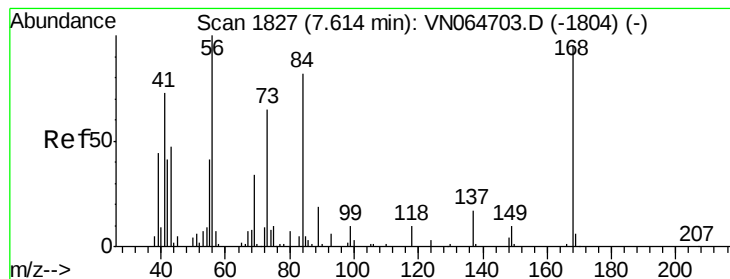
Tot Ion: 43 Resp: 1759
Ion Ratio Lower Upper
43 100
72 21.8 19.7 29.5



#29
Tetrahydrofuran
Concen: 1.142 ug/l
RT: 7.17 min Scan# 1690
Delta R.T. 0.01 min
Lab File: VN064749.D
Acq: 19 Nov 2020 21:38

Tgt Ion: 42 Resp: 1050
Ion Ratio Lower Upper
42 100
72 0.0 33.0 49.4#
71 2.9 31.8 47.6#





#31

Cyclohexane

Concen: 1.531 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN064749.D

Acq: 19 Nov 2020 21:38

Instrument :

MSVOA_N

ClientSampled :

ND-SOIL

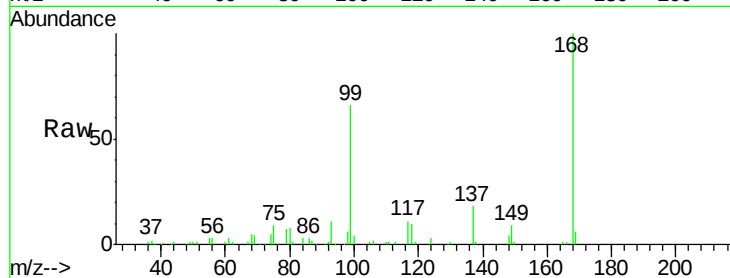
Tot Ion: 56 Resp: 5891

Ion Ratio Lower Upper

56 100

69 144.4 27.2 40.8#

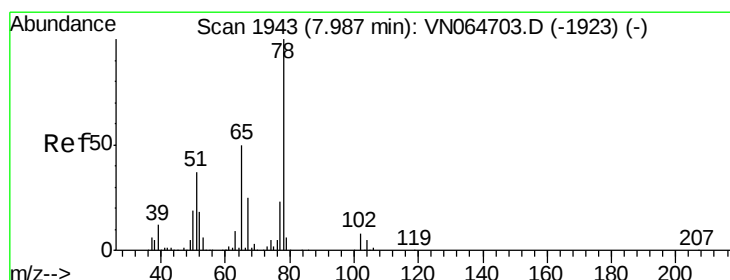
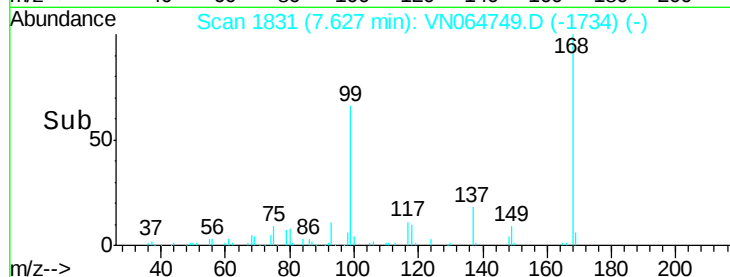
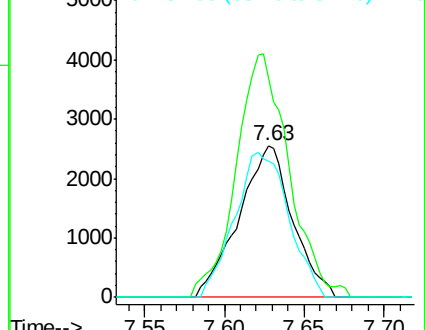
84 89.6 65.9 98.9



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: 57.700 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN064749.D

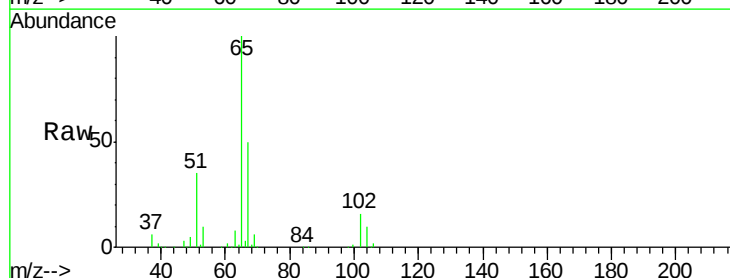
Acq: 19 Nov 2020 21:38

Tgt Ion: 65 Resp: 205427

Ion Ratio Lower Upper

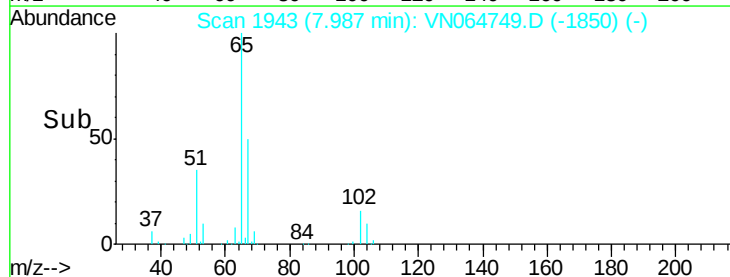
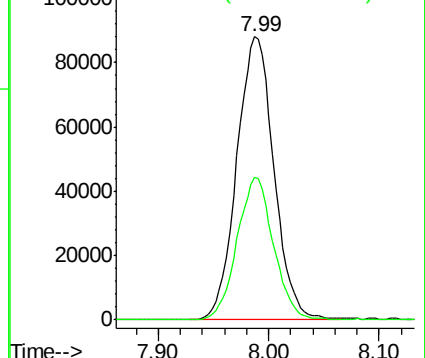
65 100

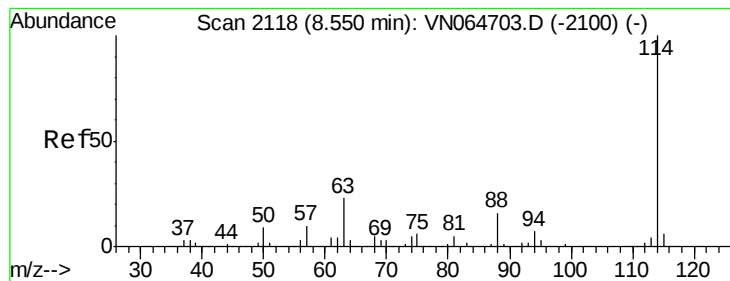
67 49.4 0.0 99.8



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: VN064749.D

Acq: 19 Nov 2020 21:38

Instrument :

MSVOA_N

ClientSampled :

ND-SOIL

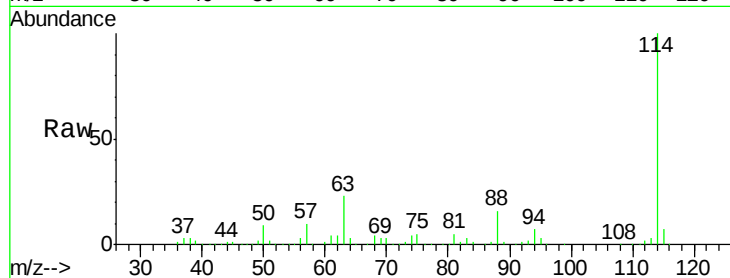
Tot Ion:114 Resp: 456193

Ion Ratio Lower Upper

114 100

63 22.9 0.0 46.0

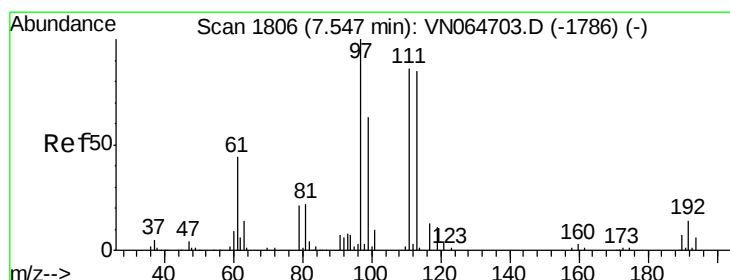
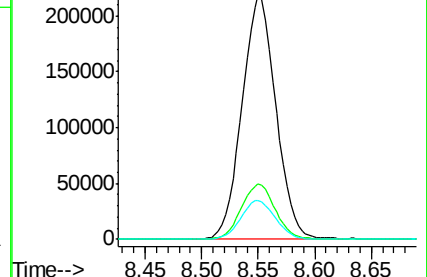
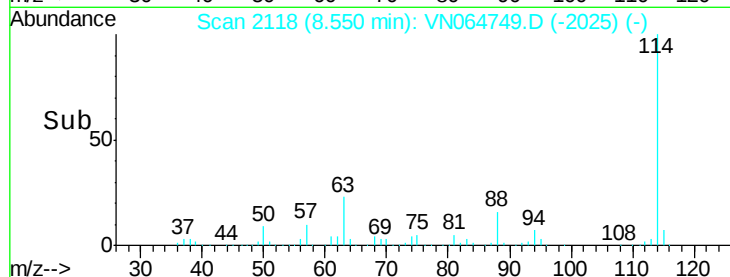
88 15.9 0.0 31.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 53.899 ug/l

RT: 7.55 min Scan# 1806

Delta R.T. -0.00 min

Lab File: VN064749.D

Acq: 19 Nov 2020 21:38

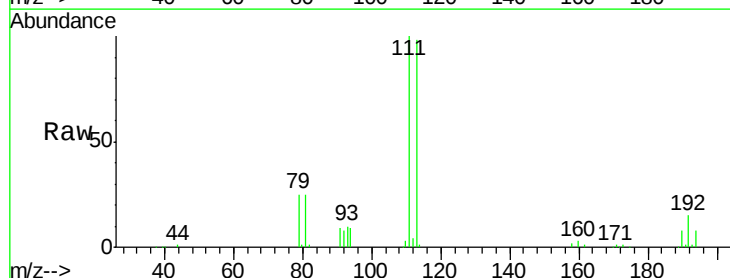
Tgt Ion:113 Resp: 139950

Ion Ratio Lower Upper

113 100

111 103.9 82.2 123.4

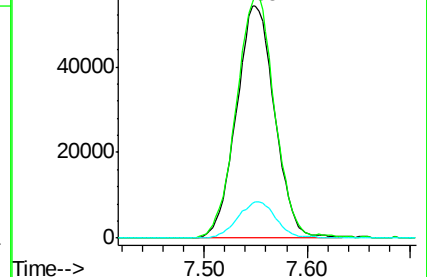
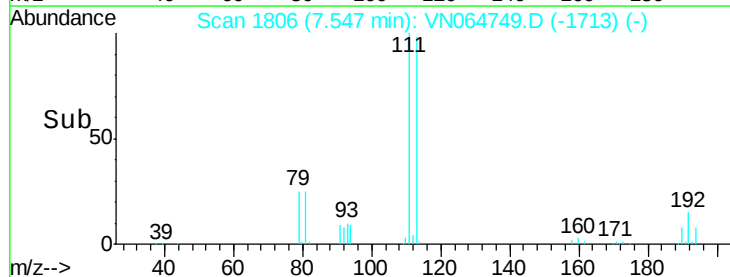
192 15.7 12.7 19.1

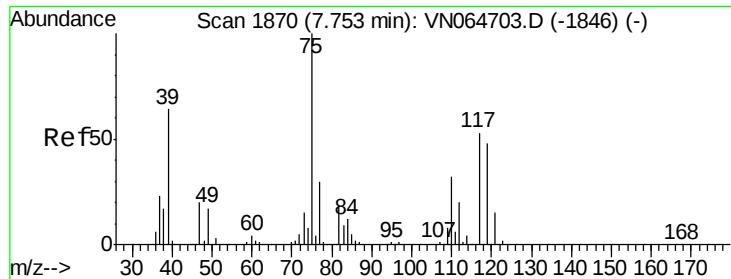


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

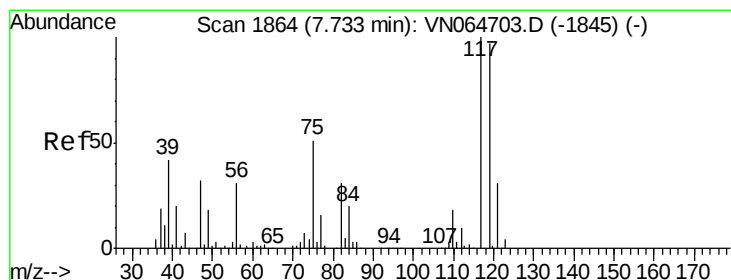
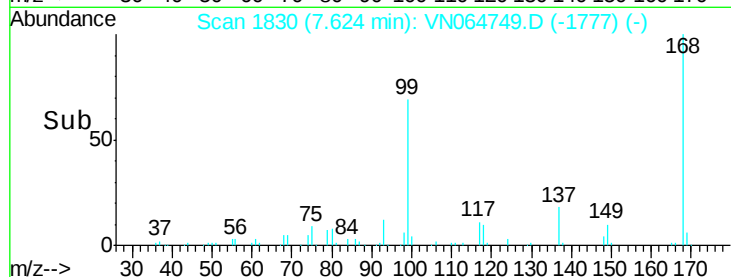
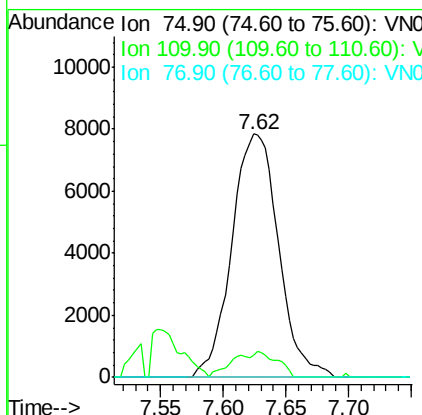
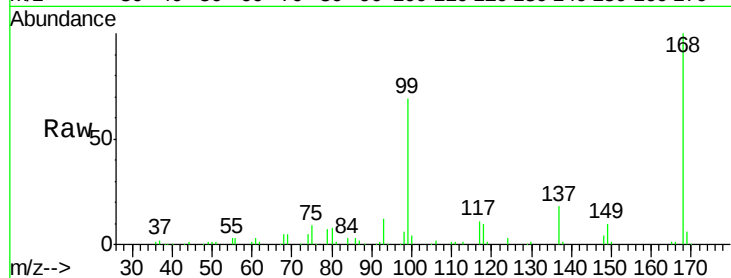




#36
 1,1-Dichloropropene
 Concen: 4.330 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064749.D
 Acq: 19 Nov 2020 21:38

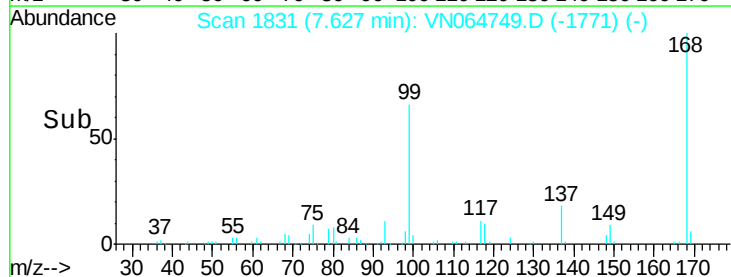
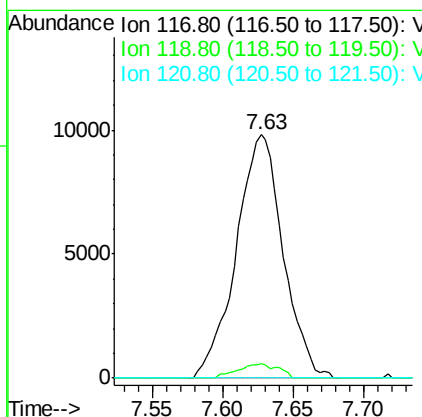
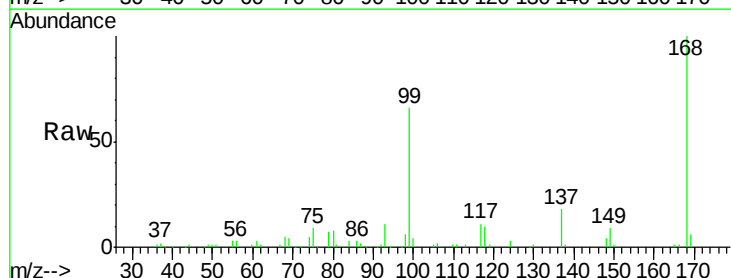
Instrument :
 MSVOA_N
 ClientSampled :
 ND-SOIL

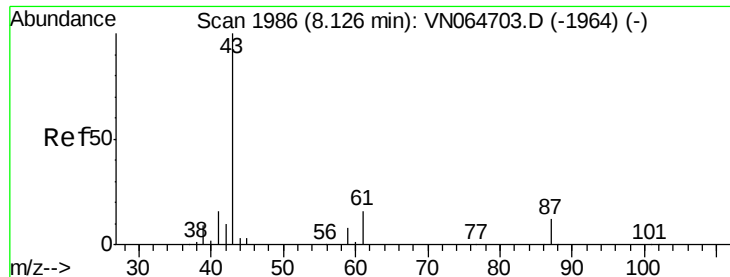
Tot Ion: 75 Resp: 20324
 Ion Ratio Lower Upper
 75 100
 110 5.5 16.2 48.6#
 77 0.0 24.4 36.6#



#38
 Carbon Tetrachloride
 Concen: 4.568 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN064749.D
 Acq: 19 Nov 2020 21:38

Tgt Ion: 117 Resp: 22785
 Ion Ratio Lower Upper
 117 100
 119 5.9 77.8 116.6#
 121 0.0 24.9 37.3#





#43

Isopropyl Acetate

Concen: 3.738 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN064749.D

Acq: 19 Nov 2020 21:38

Instrument :

MSVOA_N

ClientSampled :

ND-SOIL

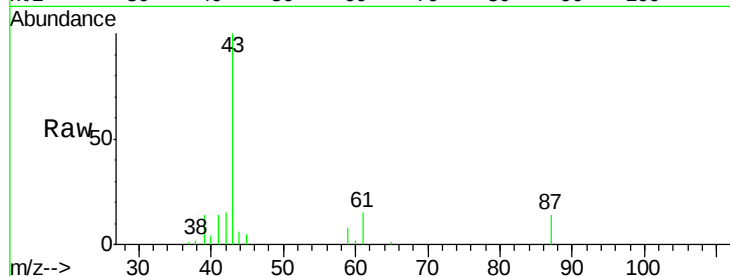
Tot Ion: 43 Resp: 28474

Ion Ratio Lower Upper

43 100

61 17.9 14.1 21.1

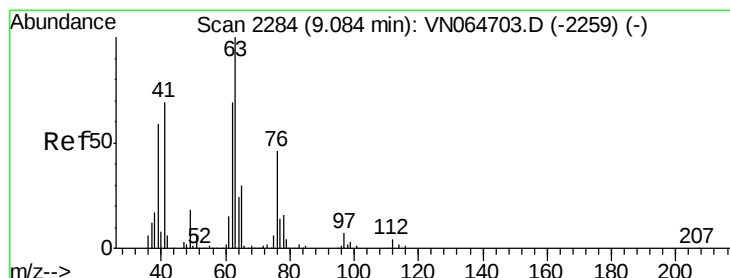
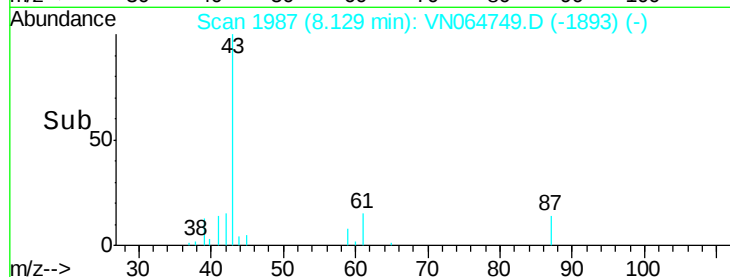
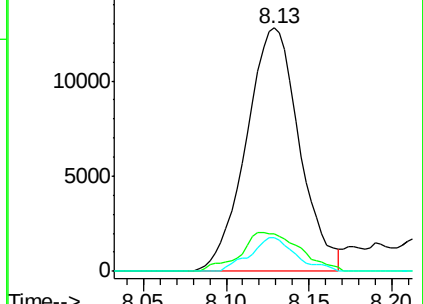
87 11.9 9.1 13.7



Abundance Ion 43.00 (42.70 to 43.70): VN064703.D (-1964) (-)

Ion 61.00 (60.70 to 61.70): VN064703.D (-1964) (-)

Ion 87.00 (86.70 to 87.70): VN064703.D (-1964) (-)



#45

1,2-Dichloropropane

Concen: 0.209 ug/l

RT: 9.23 min Scan# 2328

Delta R.T. 0.14 min

Lab File: VN064749.D

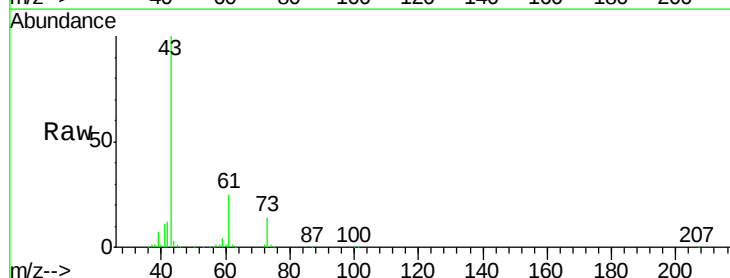
Acq: 19 Nov 2020 21:38

Tgt Ion: 63 Resp: 728

Ion Ratio Lower Upper

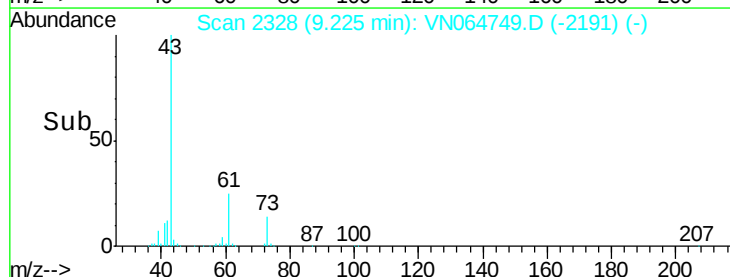
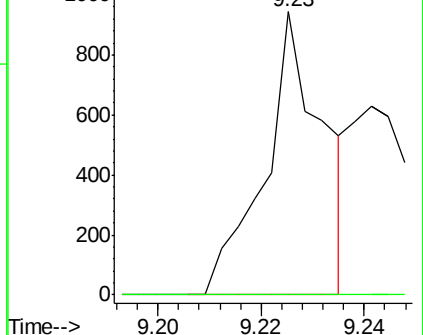
63 100

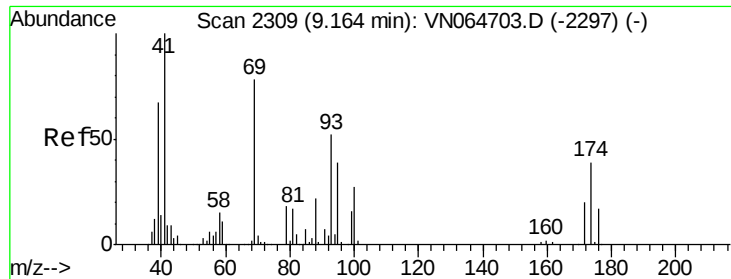
65 0.0 24.0 36.0#



Abundance Ion 62.90 (62.60 to 63.60): VN064703.D (-2259) (-)

Ion 64.90 (64.60 to 65.60): VN064703.D (-2259) (-)

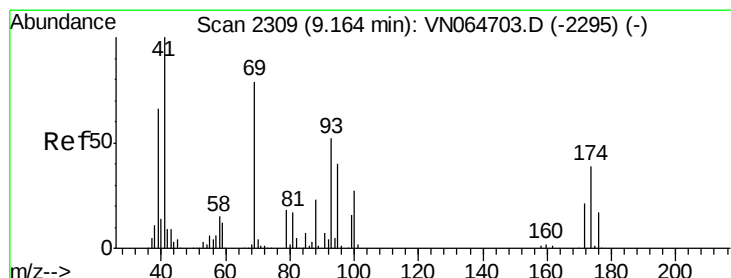
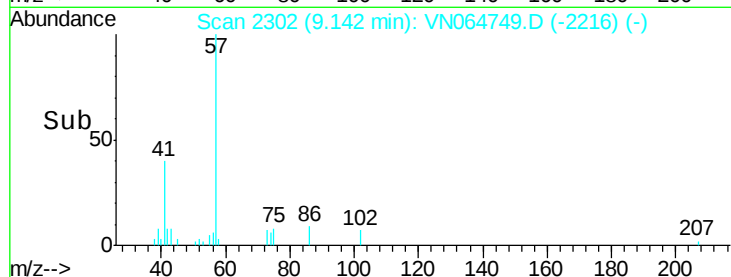
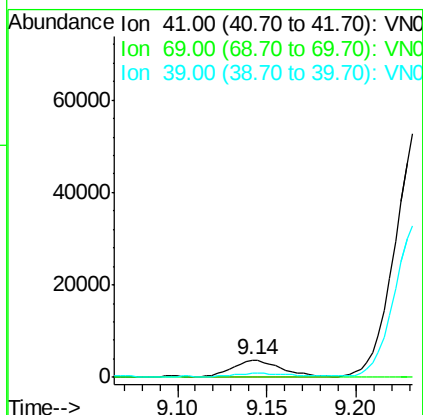
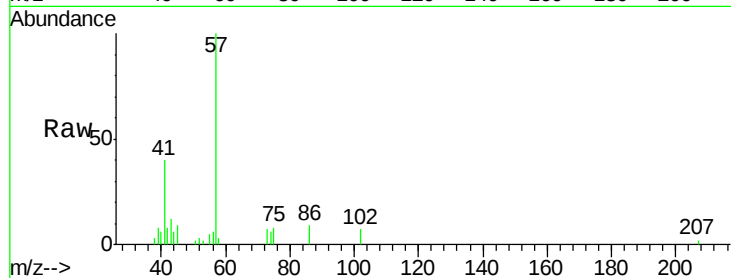




#48
Methvl methacrylate
Concen: 2.052 ug/l
RT: 9.14 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN064749.D
Acq: 19 Nov 2020 21:38

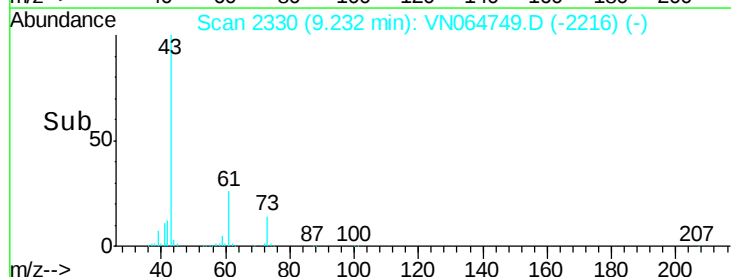
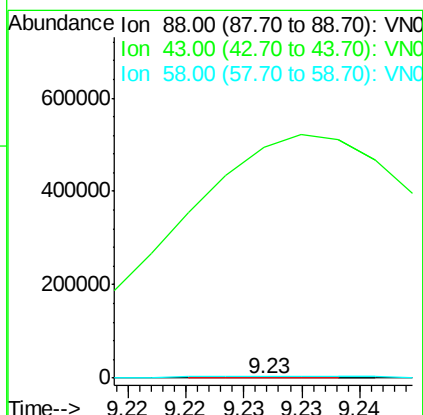
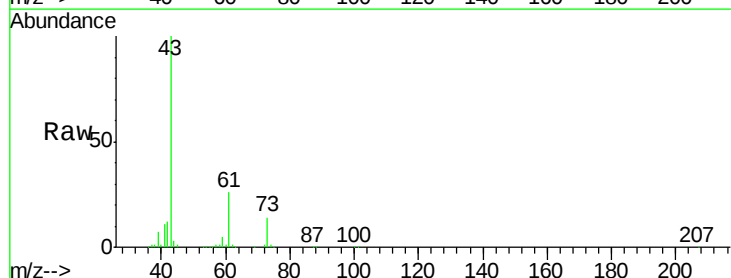
Instrument :
MSVOA_N
ClientSampleId :
ND-SOIL

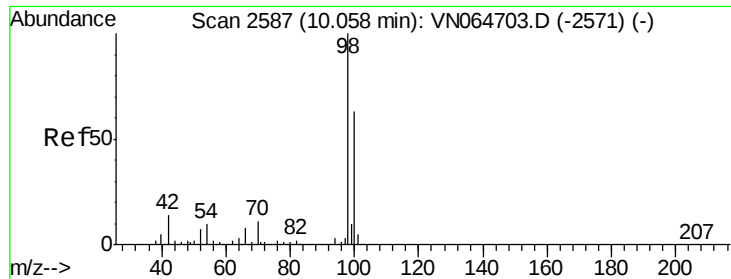
Tot Ion: 41 Resp: 7375
Ion Ratio Lower Upper
41 100
69 0.0 62.3 93.5#
39 30.0 55.1 82.7#



#49
1,4-Dioxane
Concen: 0.647 ug/l
RT: 9.23 min Scan# 2330
Delta R.T. 0.07 min
Lab File: VN064749.D
Acq: 19 Nov 2020 21:38

Tgt Ion: 88 Resp: 29
Ion Ratio Lower Upper
88 100
43 3277269.0 31.3 46.9#
58 20079.3 55.7 83.5#





#50

Toluene-d8

Concen: 48.346 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN064749.D

Acq: 19 Nov 2020 21:38

Instrument :

MSVOA_N

ClientSampled :

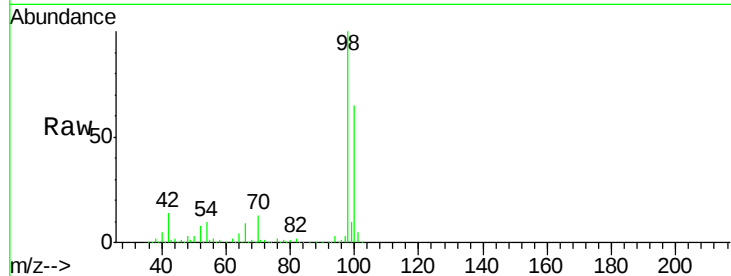
ND-SOIL

Tot Ion: 98 Resp: 570526

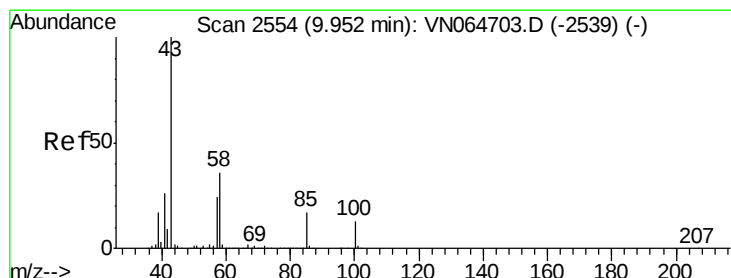
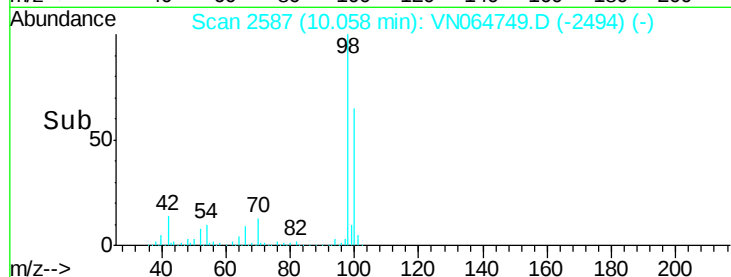
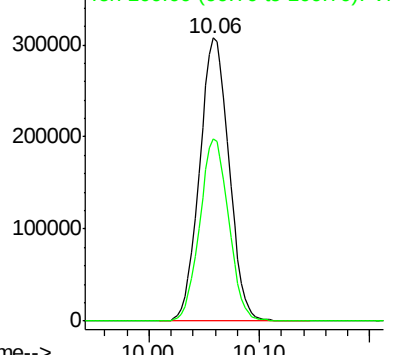
Ion Ratio Lower Upper

98 100

100 63.4 50.4 75.6



Abundance Ion 98.00 (97.70 to 98.70): VN064703.D (-2571) (-)



#51

4-Methyl-2-Pentanone

Concen: 7.626 ug/l

RT: 9.95 min Scan# 2552

Delta R.T. -0.01 min

Lab File: VN064749.D

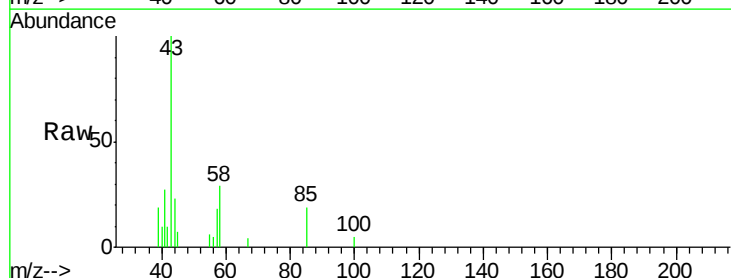
Acq: 19 Nov 2020 21:38

Tgt Ion: 43 Resp: 7055

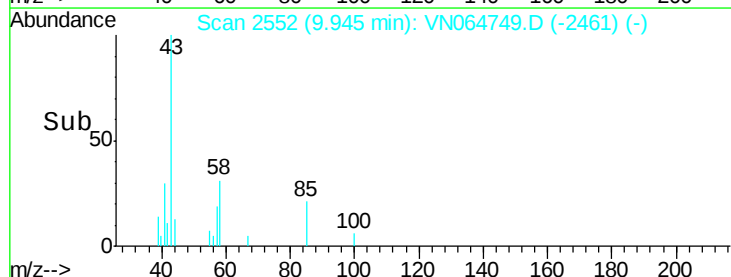
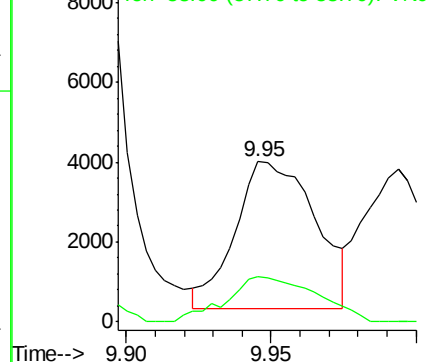
Ion Ratio Lower Upper

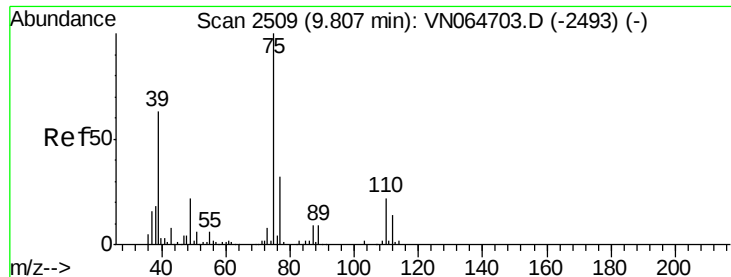
43 100

58 34.8 28.5 42.7



Abundance Ion 43.00 (42.70 to 43.70): VN064703.D (-2539) (-)





#54

cis-1,3-Dichloropropene

Concen: 6.433 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN064749.D

Acq: 19 Nov 2020 21:38

Instrument :

MSVOA_N

ClientSampled :

ND-SOIL

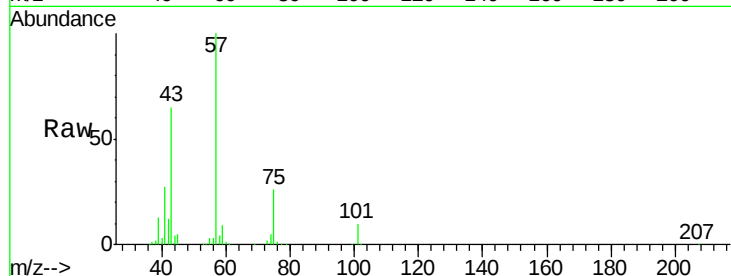
Tot Ion: 75 Resp: 36823

Ion Ratio Lower Upper

75 100

77 0.9 25.8 38.8#

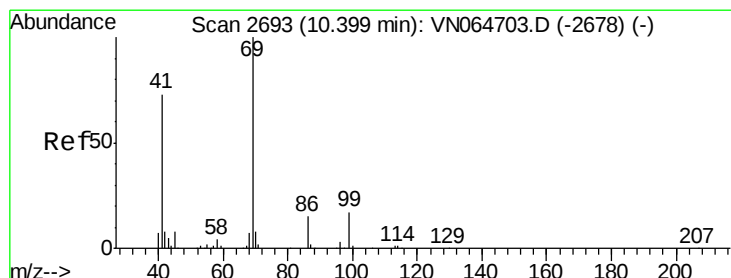
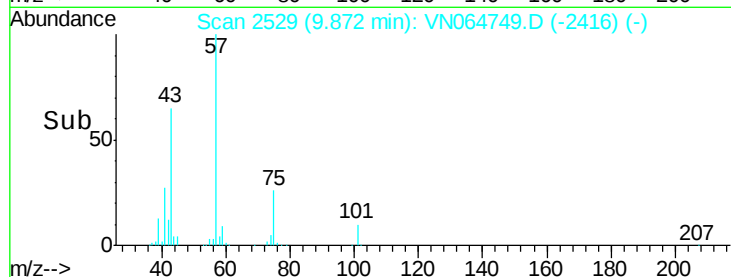
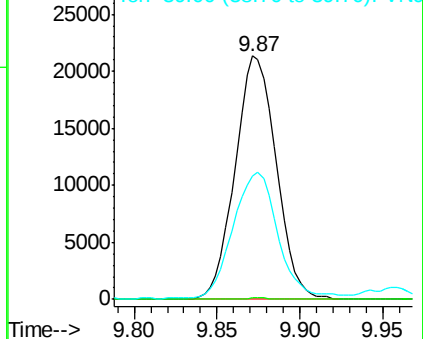
39 49.9 50.5 75.7#



Abundance Ion 74.90 (74.60 to 75.60): VN064749.D (-2529) (-)

Ion 76.90 (76.60 to 77.60): VN064749.D (-2529) (-)

Ion 39.00 (38.70 to 39.70): VN064749.D (-2529) (-)



#56

Ethyl methacrylate

Concen: 2.824 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN064749.D

Acq: 19 Nov 2020 21:38

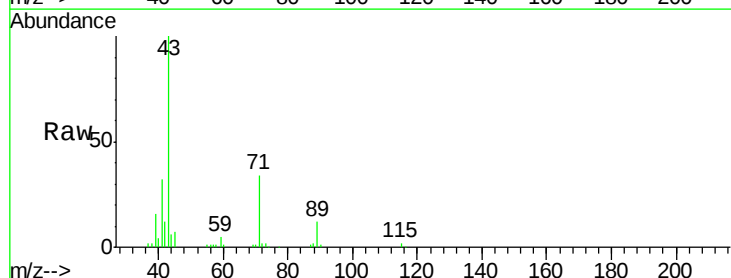
Tgt Ion: 69 Resp: 833

Ion Ratio Lower Upper

69 100

41 2904.3 59.0 88.4#

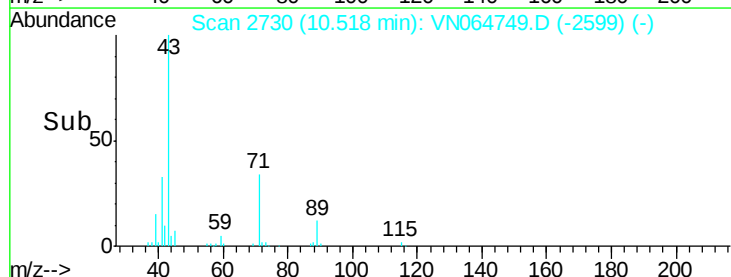
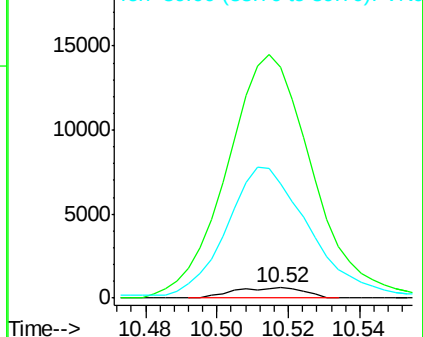
39 1444.4 38.4 57.6#

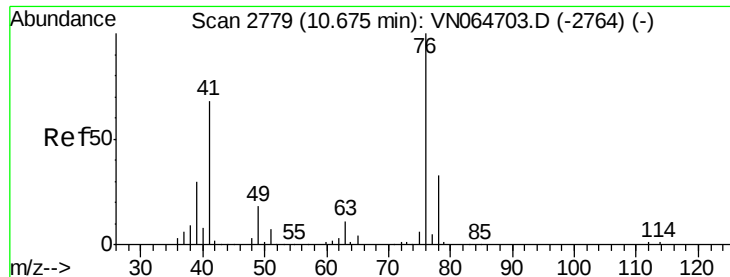


Abundance Ion 69.00 (68.70 to 69.70): VN064749.D (-2693) (-)

Ion 41.00 (40.70 to 41.70): VN064749.D (-2693) (-)

Ion 39.00 (38.70 to 39.70): VN064749.D (-2693) (-)

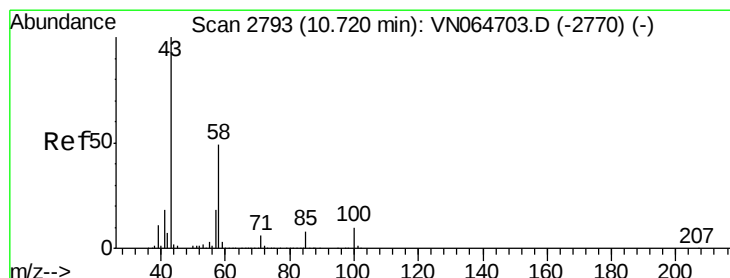
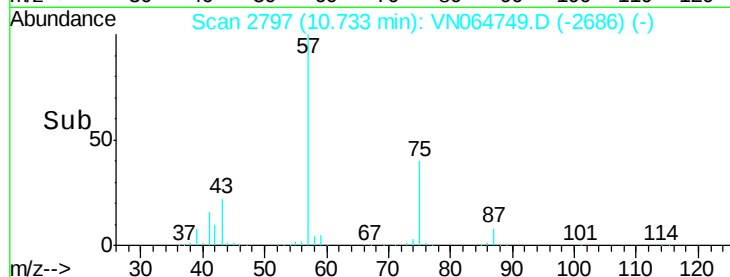
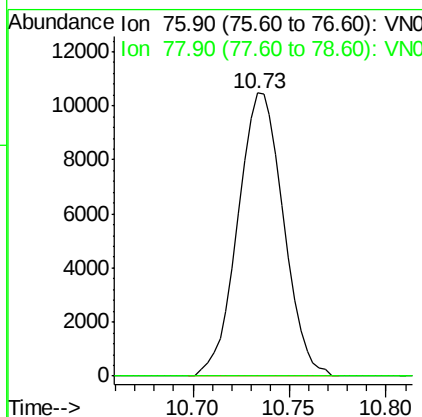
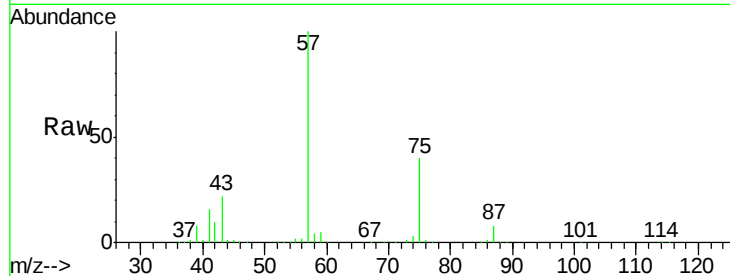




#57
 1,3-Dichloropropane
 Concen: 3.066 ug/l
 RT: 10.73 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN064749.D
 Acq: 19 Nov 2020 21:38

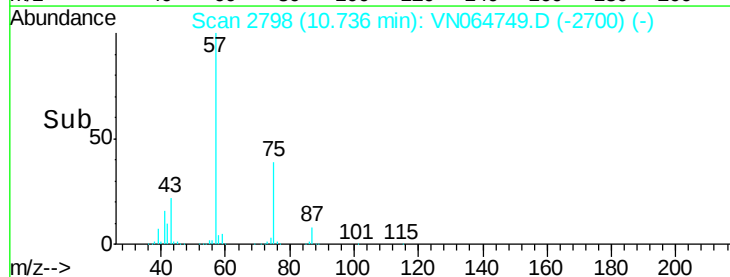
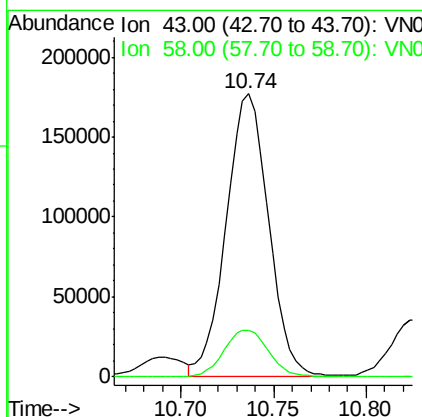
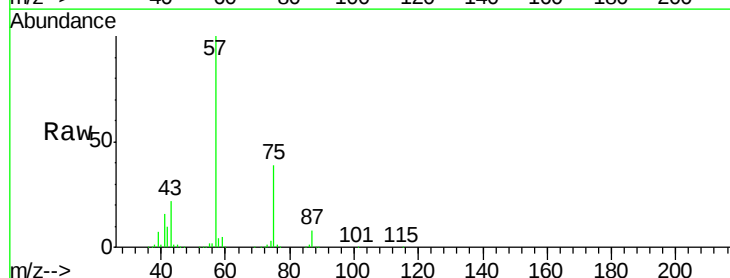
Instrument :
 MSVOA_N
 ClientSampled :
 ND-SOIL

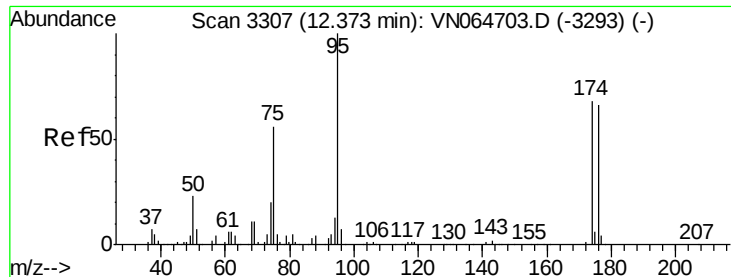
Tot Ion: 76 Resp: 17155
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.4 39.6#



#59
 2-Hexanone
 Concen: 88.471 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.02 min
 Lab File: VN064749.D
 Acq: 19 Nov 2020 21:38

Tgt Ion: 43 Resp: 279786
 Ion Ratio Lower Upper
 43 100
 58 17.7 24.4 73.4#

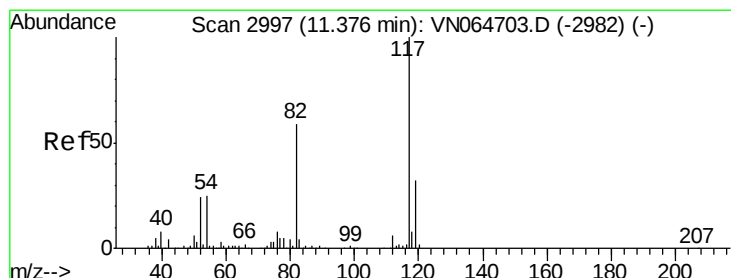
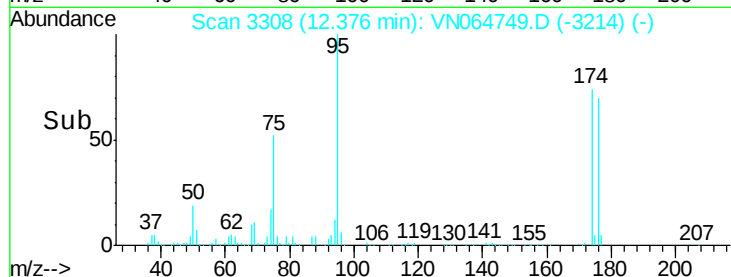
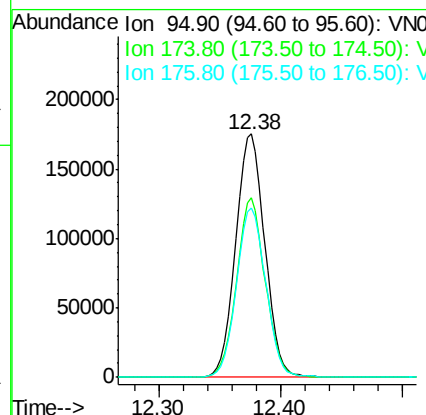
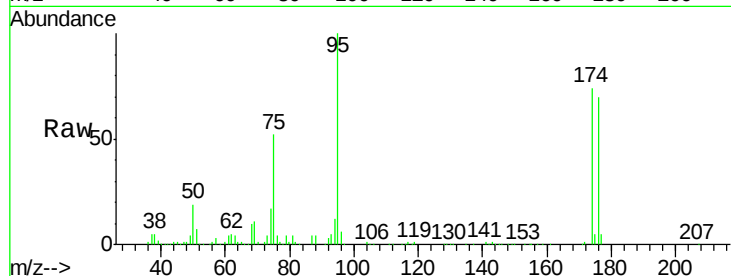




#62
4-Bromofluorobenzene
Concen: 66.182 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064749.D
Acq: 19 Nov 2020 21:38

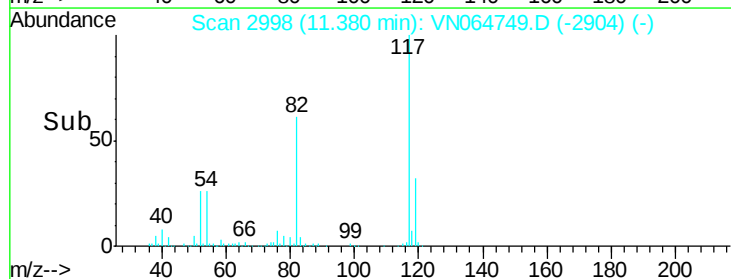
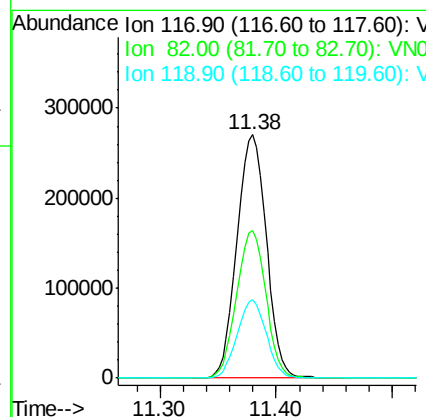
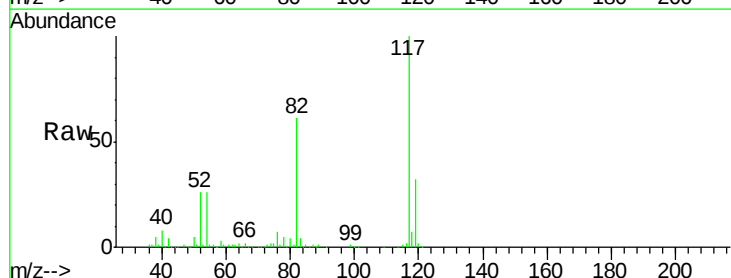
Instrument :
MSVOA_N
ClientSampled :
ND-SOIL

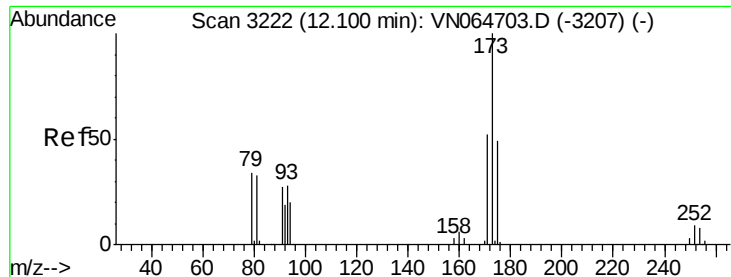
Tot Ion	Ratio	Lower	Upper
95	100		
174	72.4	0.0	136.8
176	69.8	0.0	134.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064749.D
Acq: 19 Nov 2020 21:38

Tgt Ion	Ratio	Lower	Upper
117	100		
82	60.8	47.0	70.6
119	32.1	25.4	38.2





#71

Bromoform

Concen: 2.531 ug/l

RT: 12.36 min Scan# 3303

Delta R.T. 0.26 min

Lab File: VN064749.D

Acq: 19 Nov 2020 21:38

Instrument :

MSVOA_N

ClientSampleId :

ND-SOIL

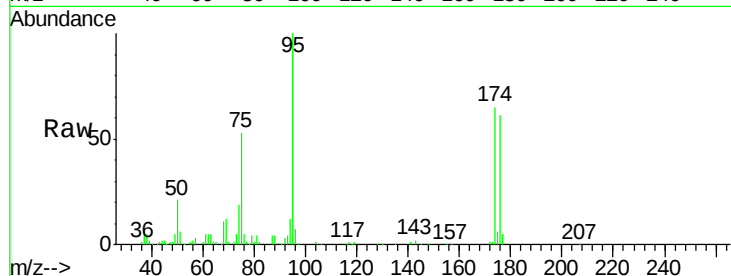
Tot Ion:173 Resp: 261

Ion Ratio Lower Upper

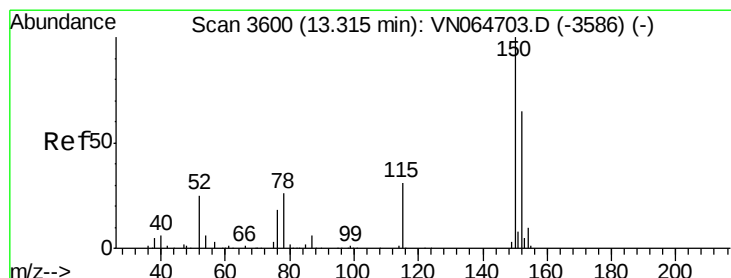
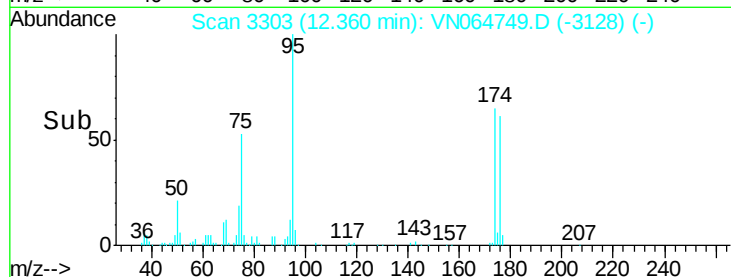
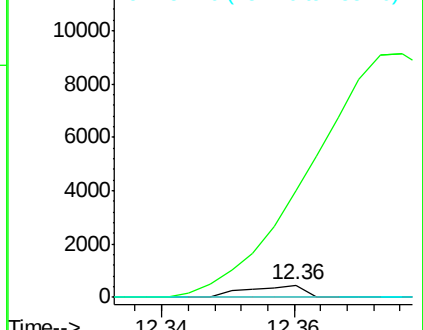
173 100

175 5244.8 24.3 72.9#

254 0.0 0.1 0.1#



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064749.D

Acq: 19 Nov 2020 21:38

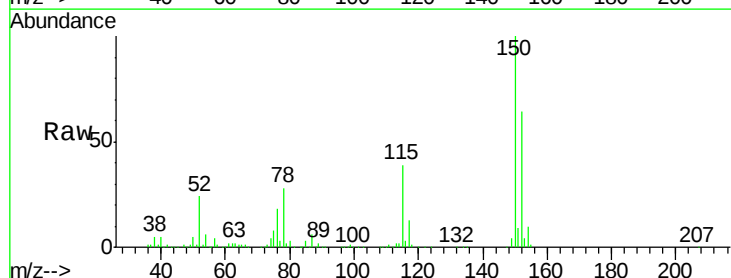
Tgt Ion:152 Resp: 261930

Ion Ratio Lower Upper

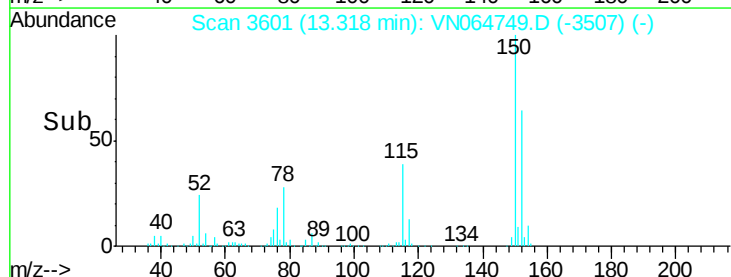
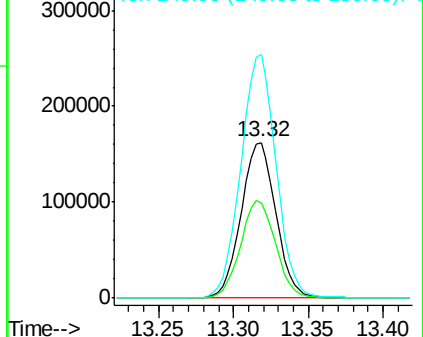
152 100

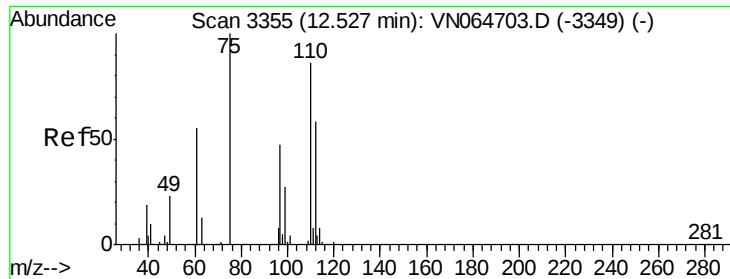
115 63.6 32.1 96.3

150 159.4 0.0 344.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V

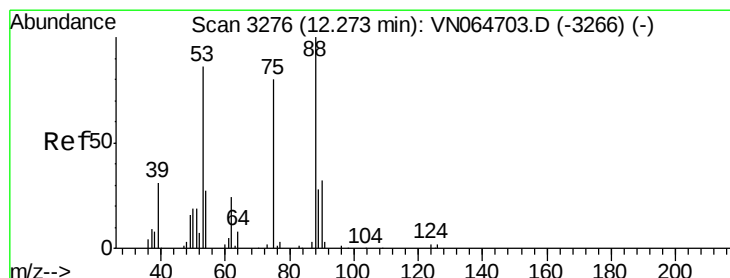
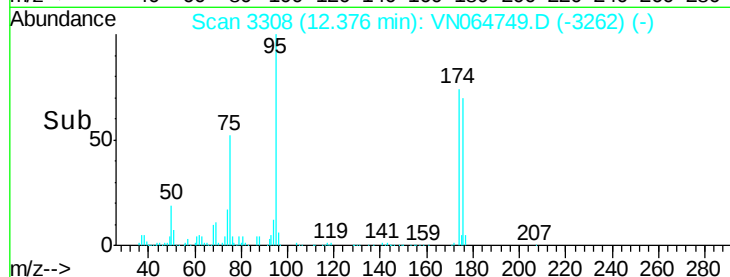
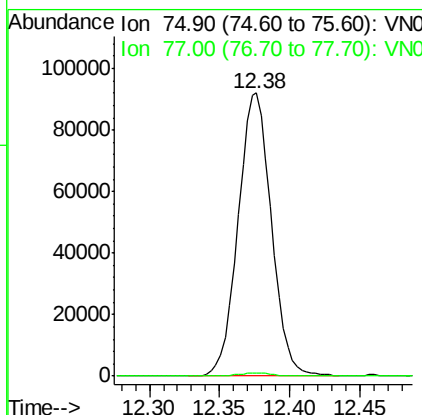
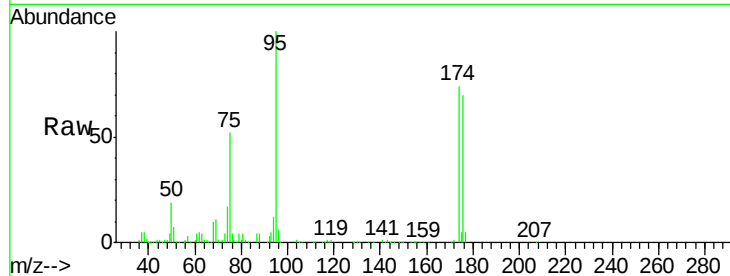




#76
 1,2,3-Trichloropropane
 Concen: 26.987 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN064749.D
 Acq: 19 Nov 2020 21:38

Instrument :
 MSVOA_N
 ClientSampled :
 ND-SOIL

Tot Ion: 75 Resp: 152304
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.947 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN064749.D
 Acq: 19 Nov 2020 21:38

Tgt Ion: 75 Resp: 152304
 Ion Ratio Lower Upper
 75 100
 53 0.1 88.8 133.2#
 89 0.0 43.1 64.7#

