

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040119\
 Data File : VN054882.D
 Acq On : 1 Apr 2019 18:34
 Operator : JC/SP
 Sample : K2186-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-TRACK-86-87-SOIL

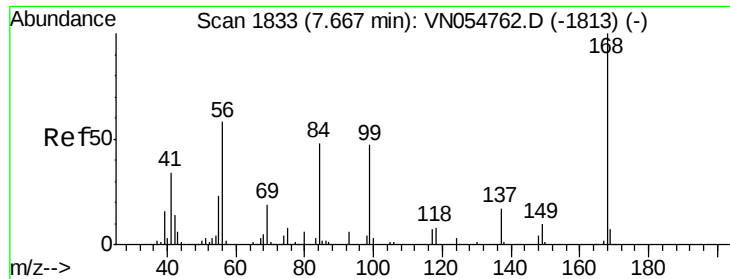
Quant Time: Apr 02 04:24:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	512063	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	860108	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	740507	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	258949	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	343009	49.69	ug/l	0.00
Spiked Amount			Recovery	=	99.38%	
35) Dibromofluoromethane	7.59	113	272695	47.56	ug/l	0.00
Spiked Amount			Recovery	=	95.12%	
50) Toluene-d8	10.09	98	1032919	48.45	ug/l	0.00
Spiked Amount			Recovery	=	96.90%	
62) 4-Bromofluorobenzene	12.40	95	311948	44.00	ug/l	0.00
Spiked Amount			Recovery	=	88.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.58	94	64	Below Cal		92
13) Acrolein	3.61	56	313	0.974	ug/l #	57
16) Acetone	3.82	43	10830	6.579	ug/l	91
18) Methyl Acetate	4.34	43	3239	Below Cal	#	64
20) Methylene Chloride	4.54	84	18255	3.144	ug/l #	87
25) 2-Butanone	6.87	43	1954	0.803	ug/l #	85
29) Tetrahydrofuran	7.23	42	406	0.240	ug/l #	82
31) Cyclohexane	7.67	56	11385	Below Cal	#	31
36) 1,1-Dichloropropene	7.67	75	40306	5.029	ug/l #	48
38) Carbon Tetrachloride	7.66	117	49949	6.417	ug/l #	17
43) Isopropyl Acetate	8.17	43	14279	1.495	ug/l #	90
48) Methyl methacrylate	9.18	41	6790	1.312	ug/l #	11
49) 1,4-Dioxane	9.27	88	102	1.986	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	8615	1.605	ug/l #	36
54) cis-1,3-Dichloropropene	9.91	75	49301	5.739	ug/l #	71
57) 1,3-Dichloropropane	10.76	76	8570	0.982	ug/l #	43
59) 2-Hexanone	10.77	43	146899	42.739	ug/l #	47
74) N-amyl acetate	11.88	43	12168	1.845	ug/l #	52
75) 1,1,2,2-Tetrachloroethane	12.40	83	181	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	160445	35.666	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	160445	138.732	ug/l #	11
83) tert-Butylbenzene	13.00	119	59	Below Cal	#	28

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054882.D

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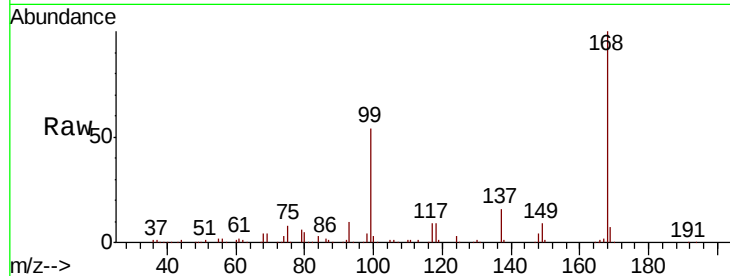
TP-TRACK-86-87-SOIL

Tot Ion:168 Resp: 512063

Ion Ratio Lower Upper

168 100

99 54.3 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): VN054882.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN054882.D (-1740) (-)

7.67

250000

200000

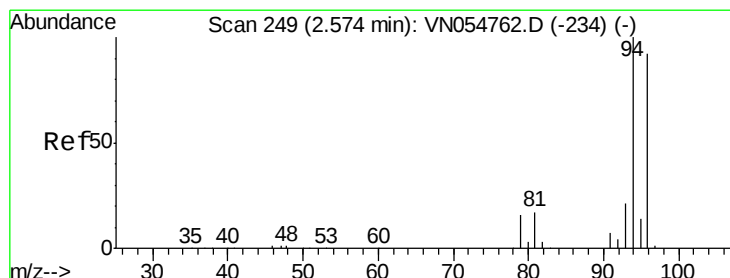
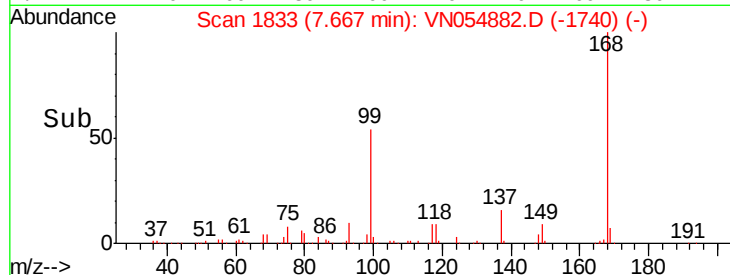
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN054882.D

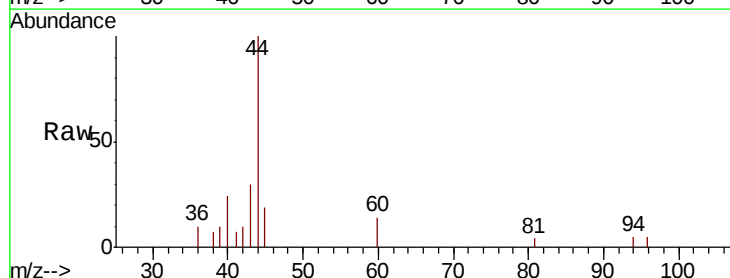
Acq: 1 Apr 2019 18:34

Tgt Ion: 94 Resp: 64

Ion Ratio Lower Upper

94 100

96 103.6 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VN054882.D (-156) (-)

Ion 95.90 (95.60 to 96.60): VN054882.D (-156) (-)

2.58

250

200

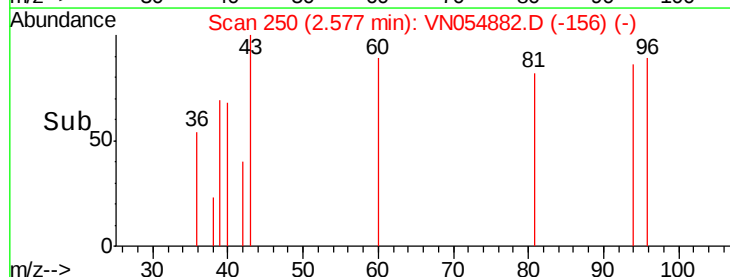
150

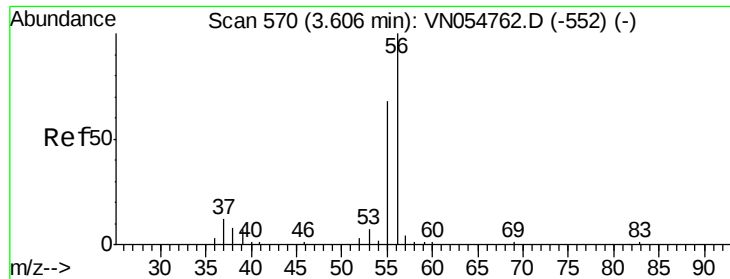
100

50

0

Time-->





#13

Acrolein

Concen: 0.974 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN054882.D

Acq: 1 Apr 2019 18:34

Instrument :

MSVOA_N

ClientSampleId :

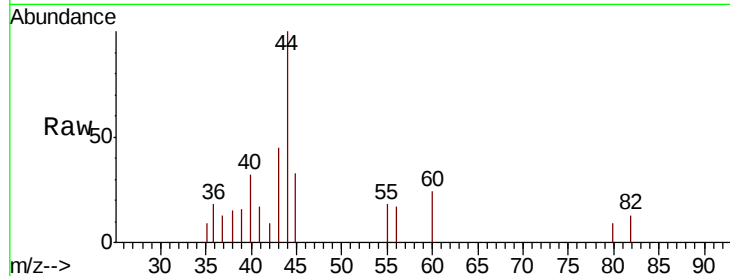
TP-TRACK-86-87-SOIL

Tot Ion: 56 Resp: 313

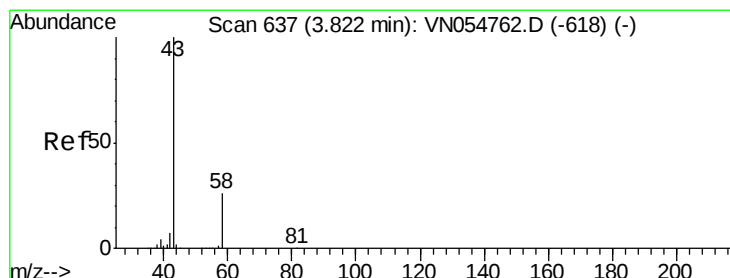
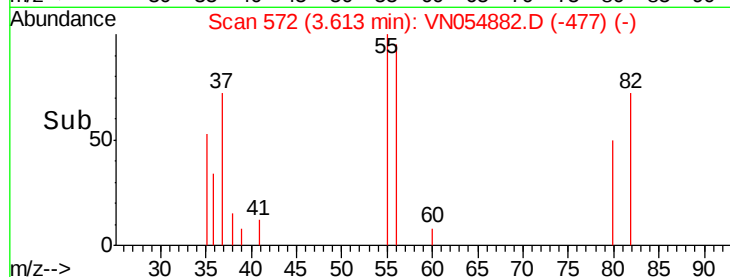
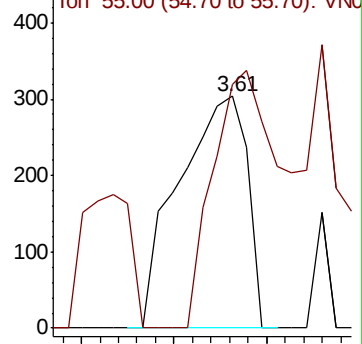
Ion Ratio Lower Upper

56 100

55 106.4 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0



#16

Acetone

Concen: 6.579 ug/l

RT: 3.82 min Scan# 637

Delta R.T. -0.00 min

Lab File: VN054882.D

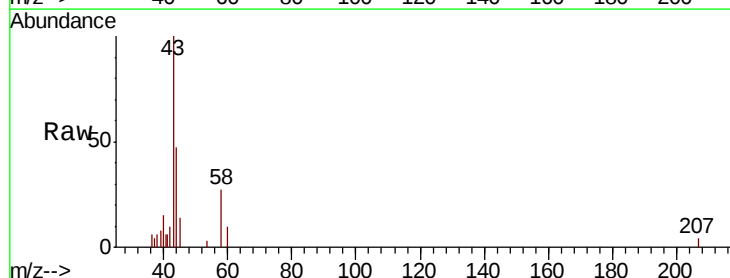
Acq: 1 Apr 2019 18:34

Tgt Ion: 43 Resp: 10830

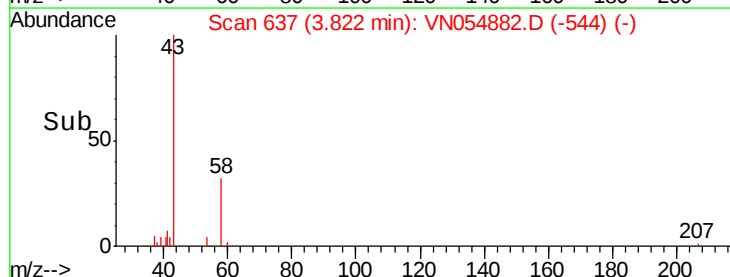
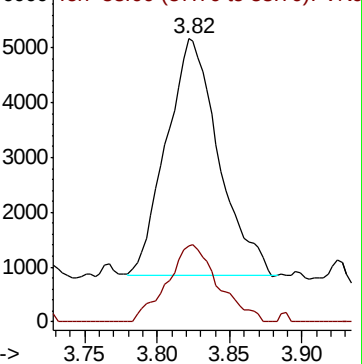
Ion Ratio Lower Upper

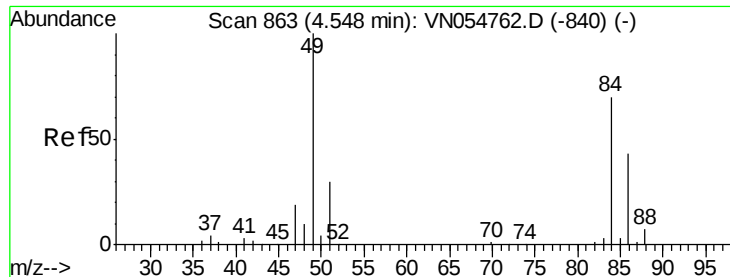
43 100

58 32.1 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

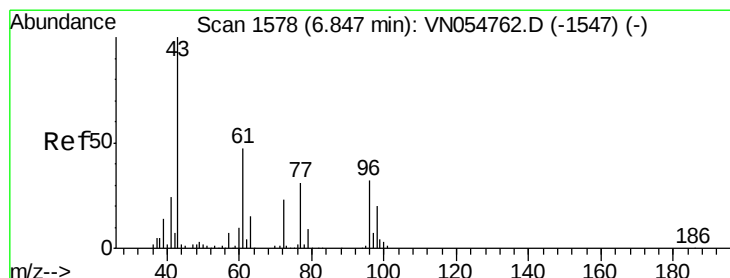
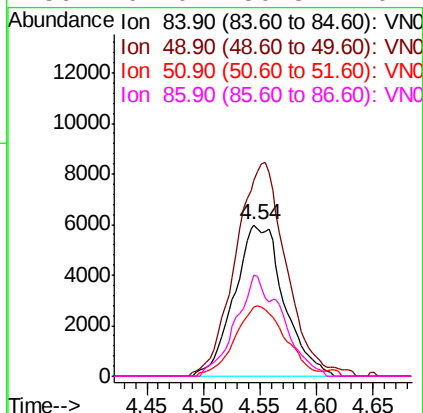
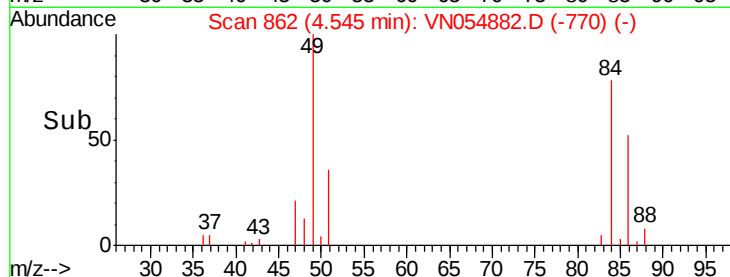
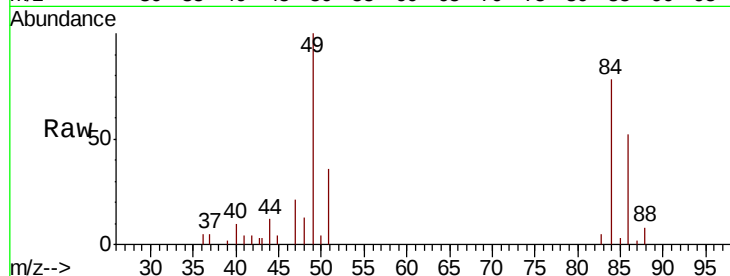




#20
Methvlene Chloride
Concen: 3.144 ug/l
RT: 4.54 min Scan# 862
Delta R.T. -0.00 min
Lab File: VN054882.D
Acq: 1 Apr 2019 18:34

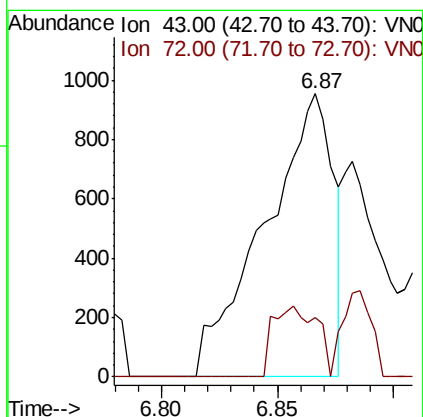
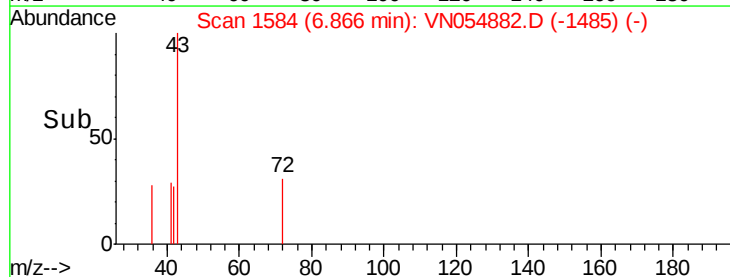
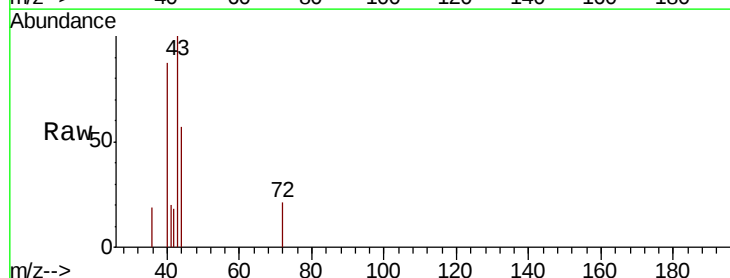
Instrument :
MSVOA_N
ClientSampleId :
TP-TRACK-86-87-SOIL

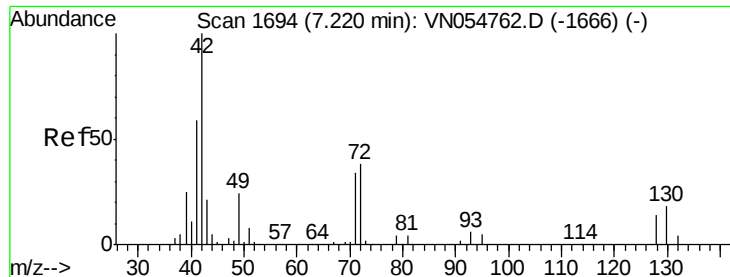
Tot Ion: 84 Resp: 18255
Ion Ratio Lower Upper
84 100
49 128.8 89.7 134.5
51 45.8 28.2 42.4#
86 67.0 50.8 76.2



#25
2-Butanone
Concen: 0.803 ug/l
RT: 6.87 min Scan# 1584
Delta R.T. 0.02 min
Lab File: VN054882.D
Acq: 1 Apr 2019 18:34

Tgt Ion: 43 Resp: 1954
Ion Ratio Lower Upper
43 100
72 21.0 23.0 34.6#





#29

Tetrahydrofuran

Concen: 0.240 ug/l

RT: 7.23 min Scan# 1697

Delta R.T. 0.01 min

Lab File: VN054882.D

Acq: 1 Apr 2019 18:34

Instrument :

MSVOA_N

ClientSampleId :

TP-TRACK-86-87-SOIL

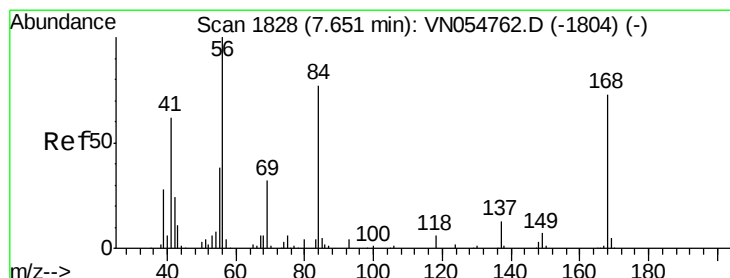
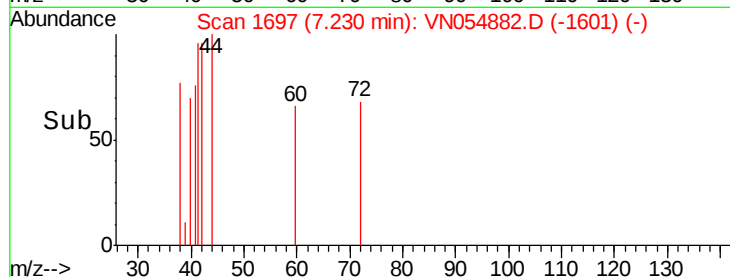
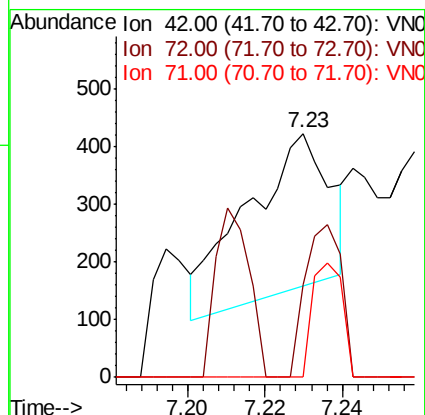
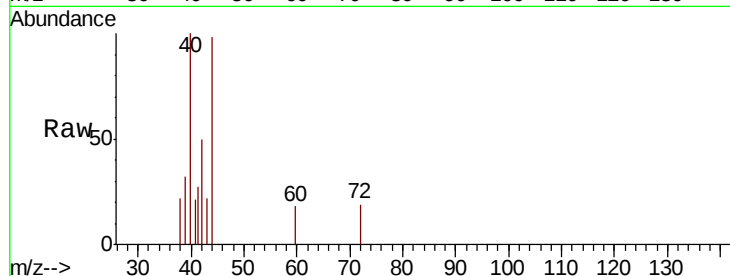
Tot Ion: 42 Resp: 406

Ion Ratio Lower Upper

42 100

72 42.1 37.8 56.6

71 26.1 36.2 54.2#



#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN054882.D

Acq: 1 Apr 2019 18:34

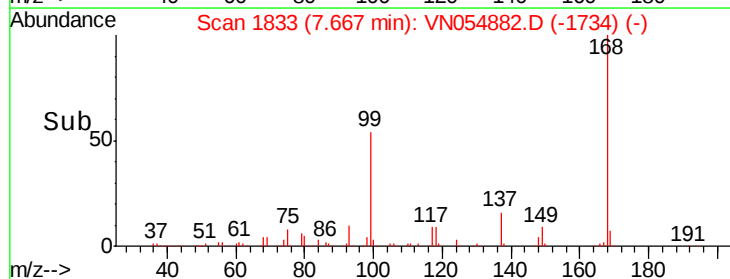
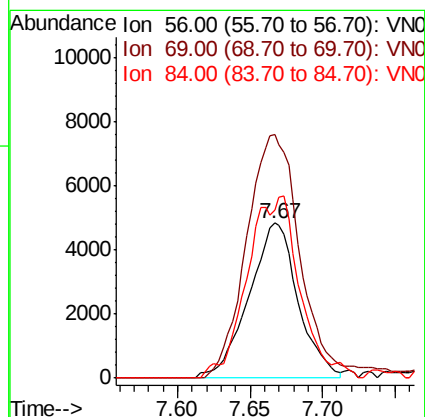
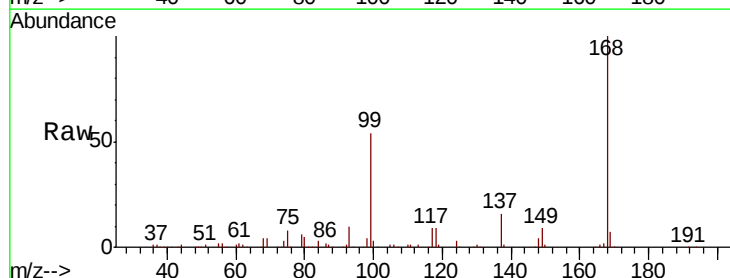
Tgt Ion: 56 Resp: 11385

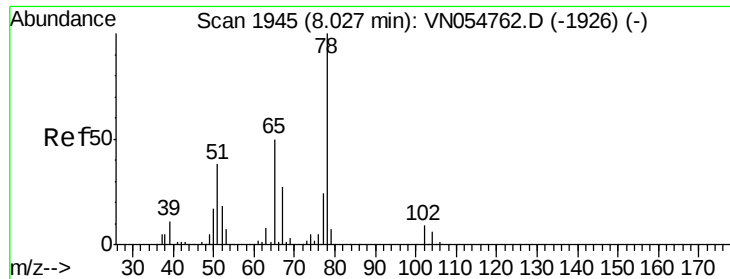
Ion Ratio Lower Upper

56 100

69 157.1 27.8 41.6#

84 108.4 74.6 111.8

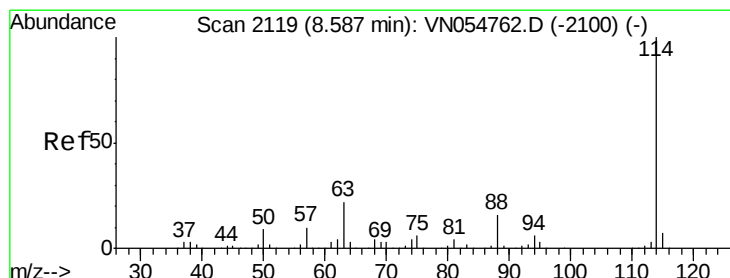
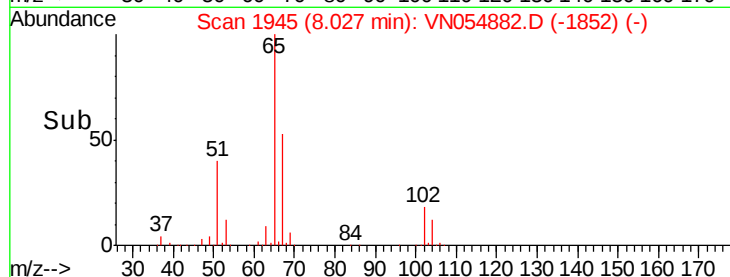
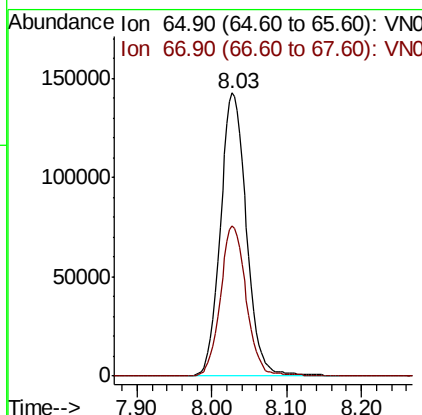
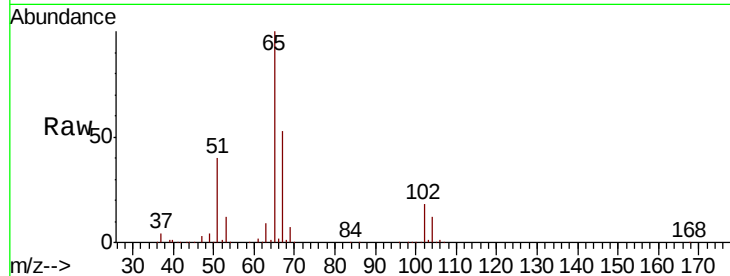




#33
 1,2-Dichloroethane-d4
 Concen: 49.692 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054882.D
 Acq: 1 Apr 2019 18:34

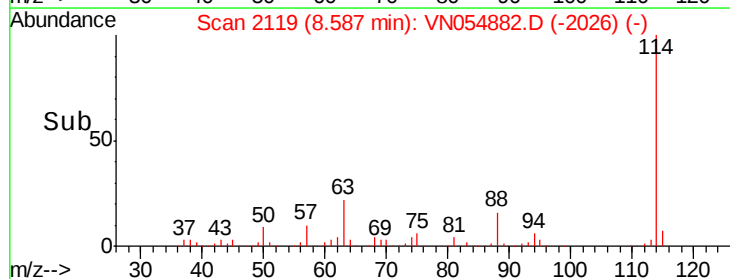
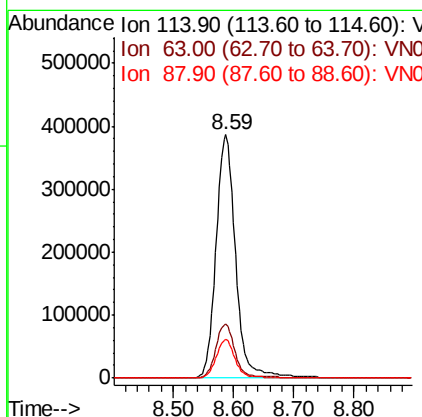
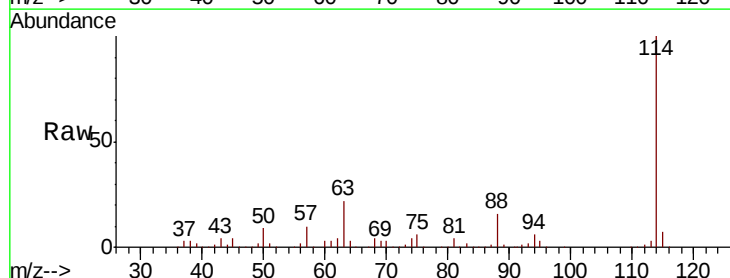
Instrument :
 MSVOA_N
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 TP-TRACK-86-87-SOIL

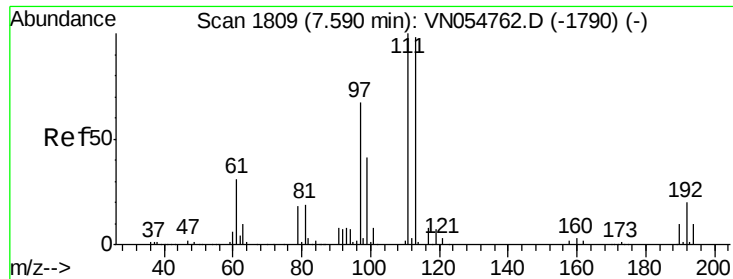
Tot Ion: 65 Resp: 343009
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054882.D
 Acq: 1 Apr 2019 18:34

Tgt Ion: 114 Resp: 860108
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 35.2
 88 15.9 0.0 30.2

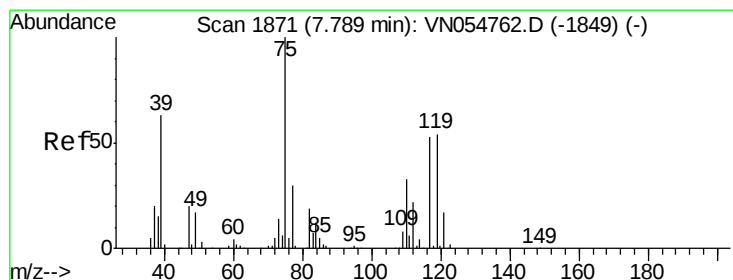
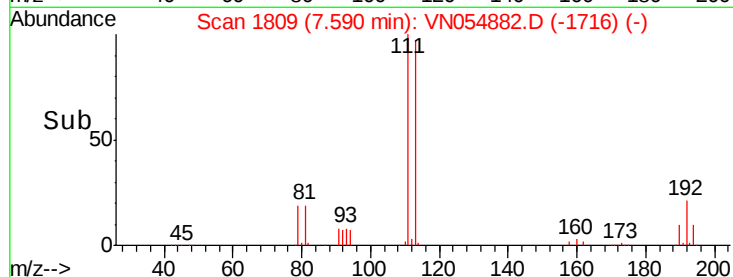
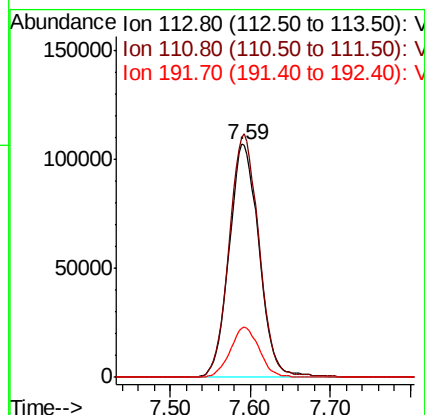
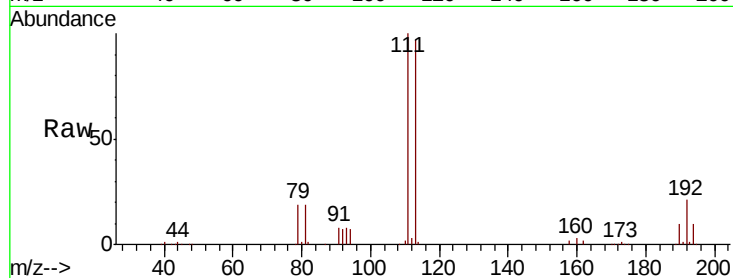




#35
Dibromofluoromethane
Concen: 47.555 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. -0.00 min
Lab File: VN054882.D
Acq: 1 Apr 2019 18:34

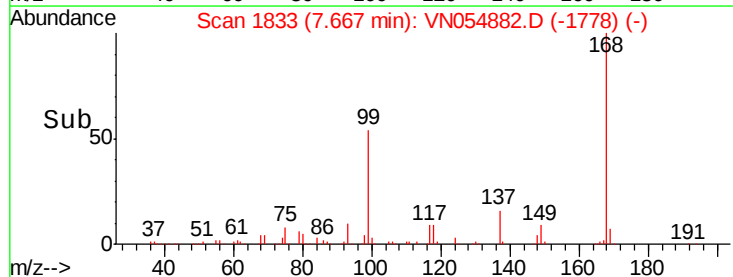
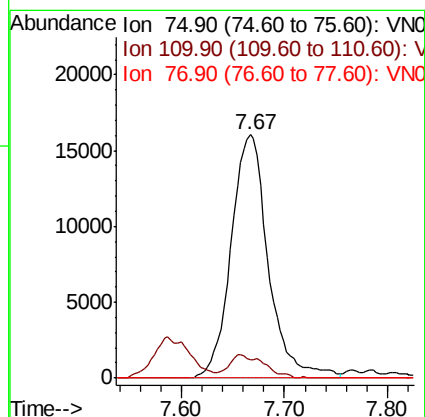
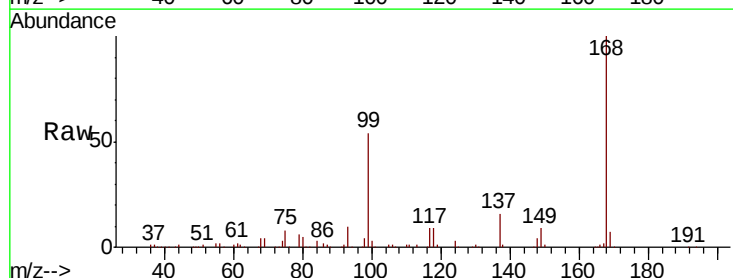
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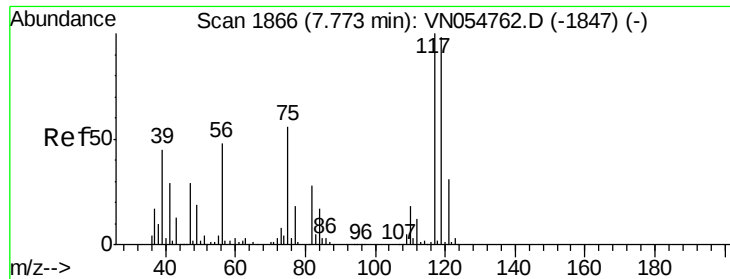
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.1	82.2	123.4
192	20.9	19.2	28.8



#36
1,1-Dichloropropene
Concen: 5.029 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.12 min
Lab File: VN054882.D
Acq: 1 Apr 2019 18:34

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	19.1	57.5#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.417 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054882.D

Acq: 1 Apr 2019 18:34

Instrument :

MSVOA_N

ClientSampleId :

TP-TRACK-86-87-SOIL

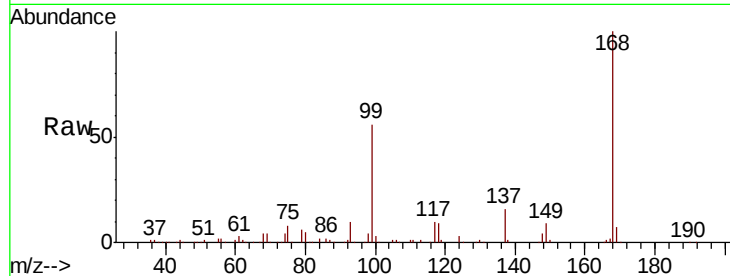
Tot Ion:117 Resp: 49949

Ion Ratio Lower Upper

117 100

119 5.8 76.3 114.5#

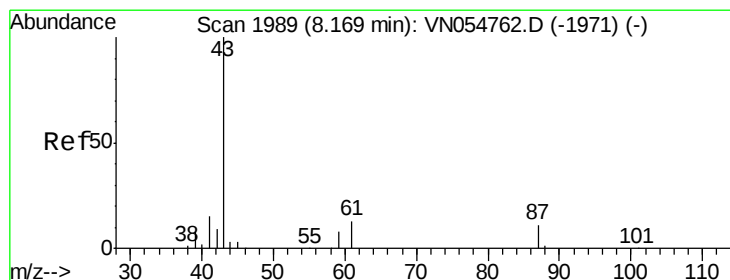
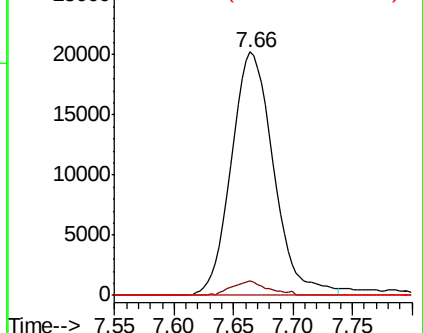
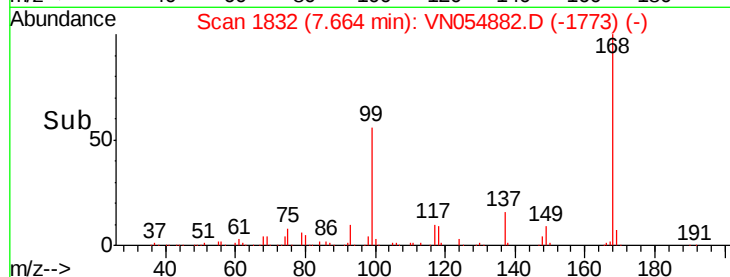
121 0.0 24.6 36.8#



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: 1.495 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN054882.D

Acq: 1 Apr 2019 18:34

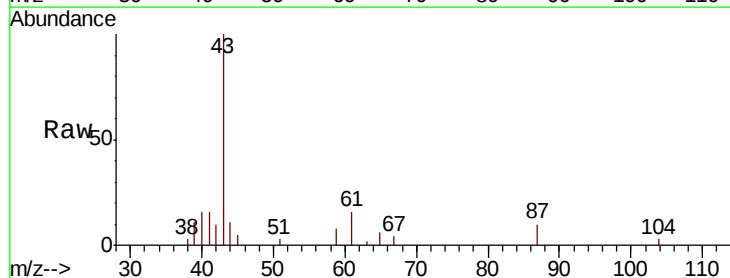
Tgt Ion: 43 Resp: 14279

Ion Ratio Lower Upper

43 100

61 17.3 15.8 23.8

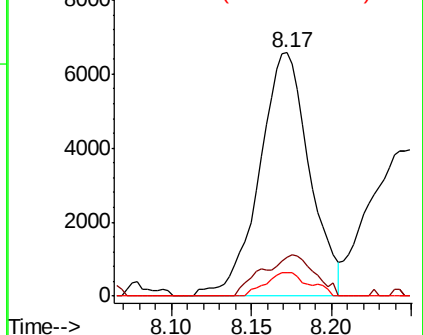
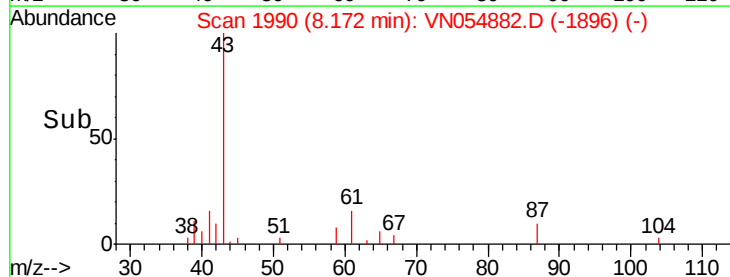
87 8.4 12.0 18.0#

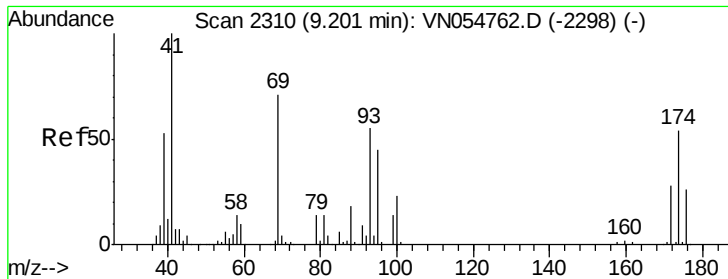


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

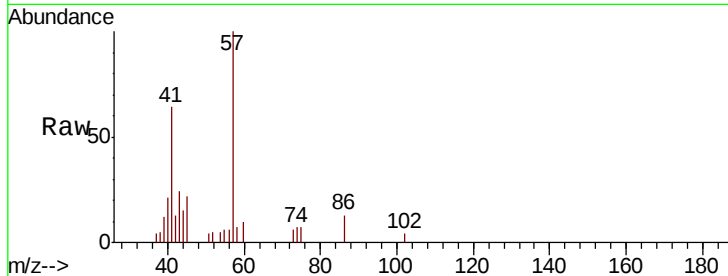




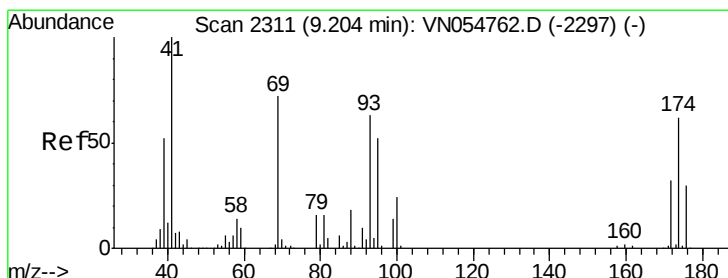
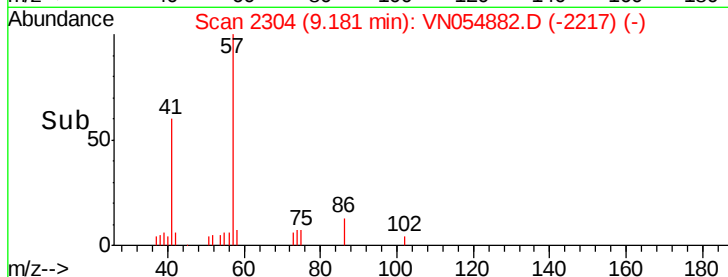
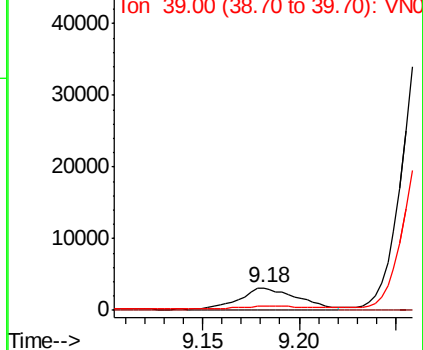
#48
Methyl methacrylate
Concen: 1.312 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN054882.D
Acq: 1 Apr 2019 18:34

Instrument :
MSVOA_N
ClientSampleId :
TP-TRACK-86-87-SOIL

Tot Ion: 41 Resp: 6790
Ion Ratio Lower Upper
41 100
69 0.0 72.6 108.8#
39 0.0 47.5 71.3#

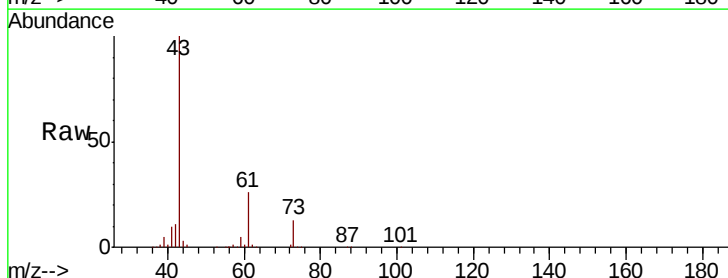


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO

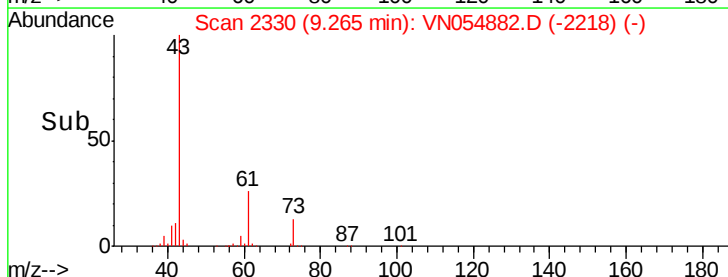
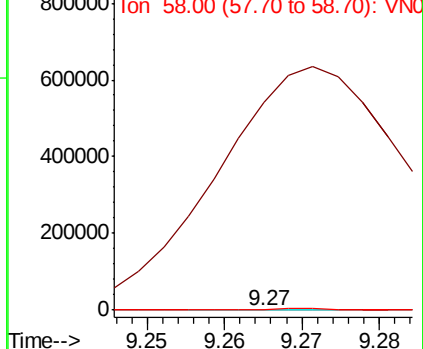


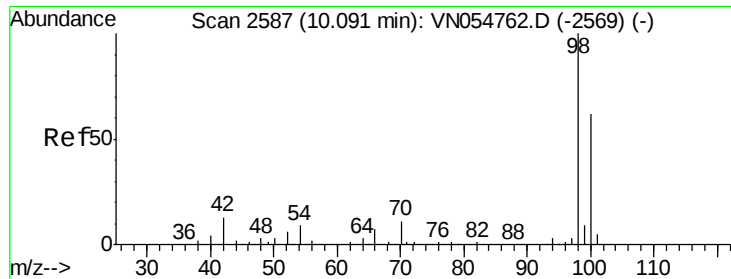
#49
1,4-Dioxane
Concen: 1.986 ug/l
RT: 9.27 min Scan# 2330
Delta R.T. 0.06 min
Lab File: VN054882.D
Acq: 1 Apr 2019 18:34

Tgt Ion: 88 Resp: 102
Ion Ratio Lower Upper
88 100
43 1201173.5 24.1 36.1#
58 5451.0 50.8 76.2#



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





#50

Toluene-d8

Concen: 48.451 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054882.D

Acq: 1 Apr 2019 18:34

Instrument :

MSVOA_N

ClientSampleId :

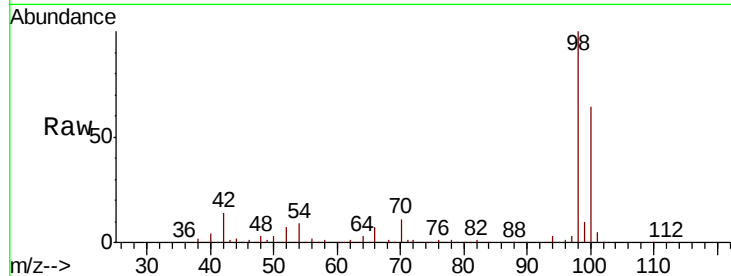
TP-TRACK-86-87-SOIL

Tot Ion: 98 Resp: 1032919

Ion Ratio Lower Upper

98 100

100 64.3 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054762.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN054762.D (-2569) (-)

10.09

500000

400000

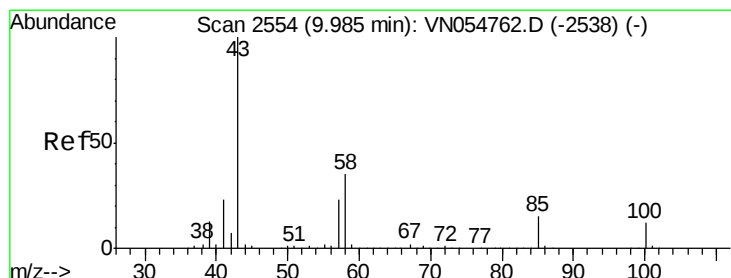
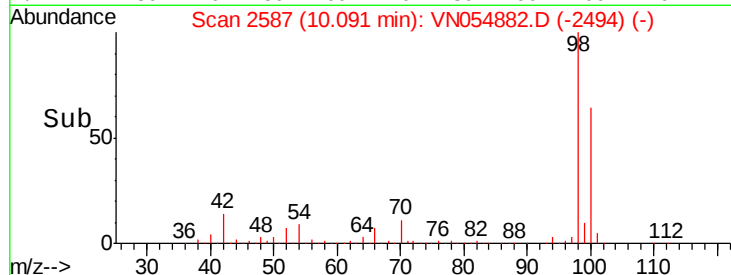
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.605 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN054882.D

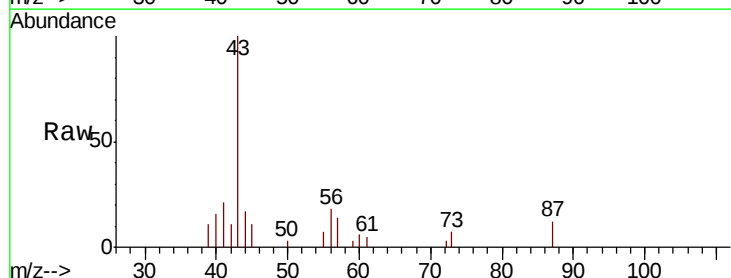
Acq: 1 Apr 2019 18:34

Tgt Ion: 43 Resp: 8615

Ion Ratio Lower Upper

43 100

58 0.0 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VN054762.D (-2538) (-)

Ion 58.00 (57.70 to 58.70): VN054762.D (-2538) (-)

10.03

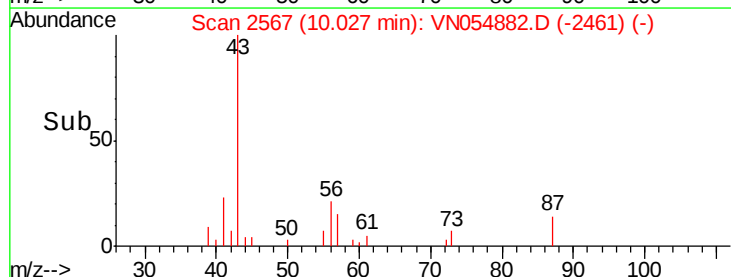
6000

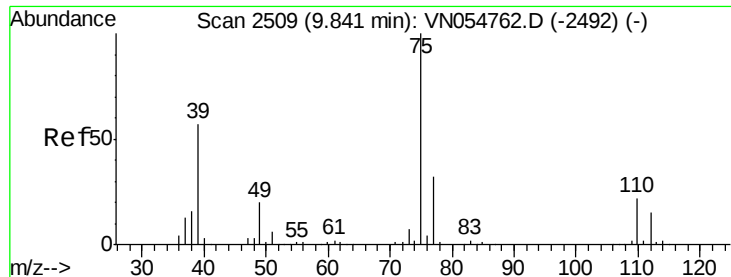
4000

2000

0

Time-->



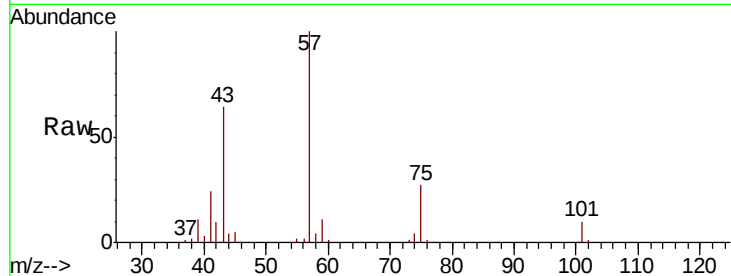


#54

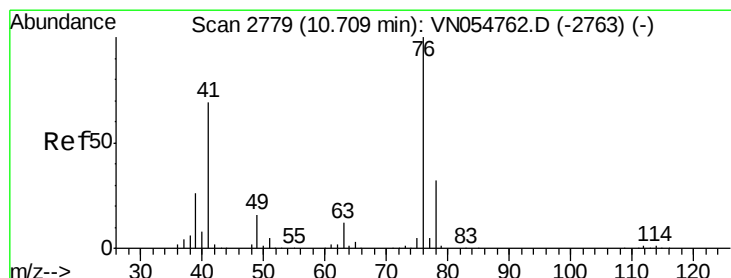
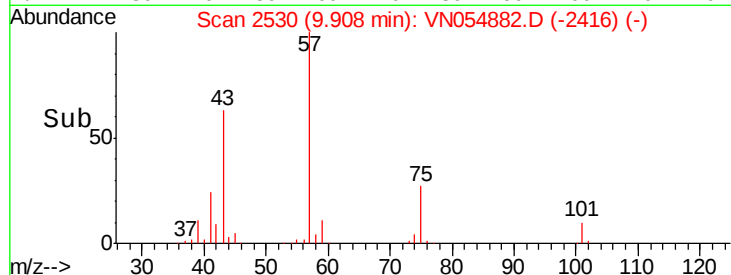
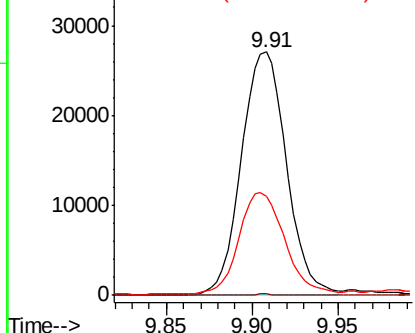
cis-1,3-Dichloropropene
 Concen: 5.739 ug/l
 RT: 9.91 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN054882.D
 Acq: 1 Apr 2019 18:34

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-TRACK-86-87-SOIL

Tot Ion: 75 Resp: 49301
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.4 38.0#
 39 39.8 37.2 55.8



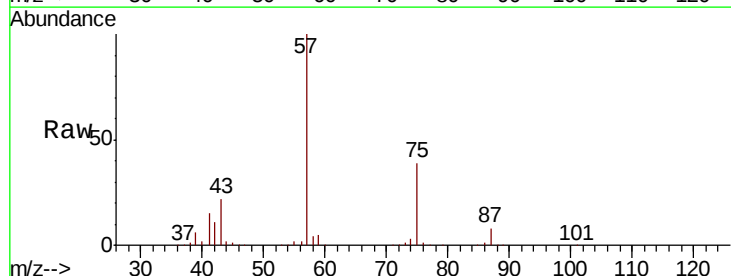
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



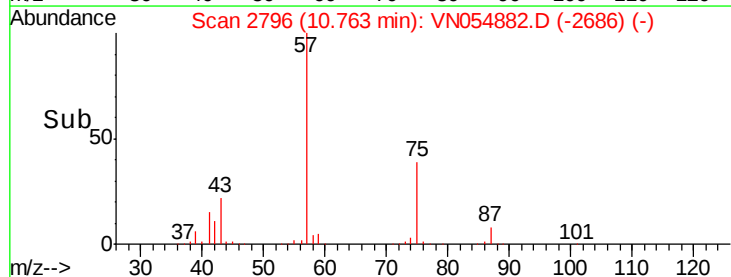
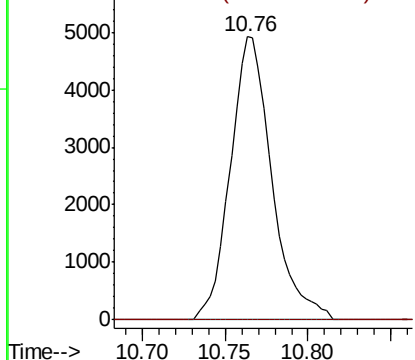
#57

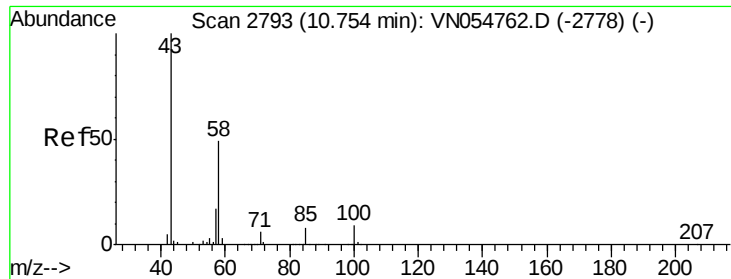
1,3-Dichloropropane
 Concen: 0.982 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.05 min
 Lab File: VN054882.D
 Acq: 1 Apr 2019 18:34

Tgt Ion: 76 Resp: 8570
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0
 Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 42.739 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN054882.D

Acq: 1 Apr 2019 18:34

Instrument :

MSVOA_N

ClientSampleId :

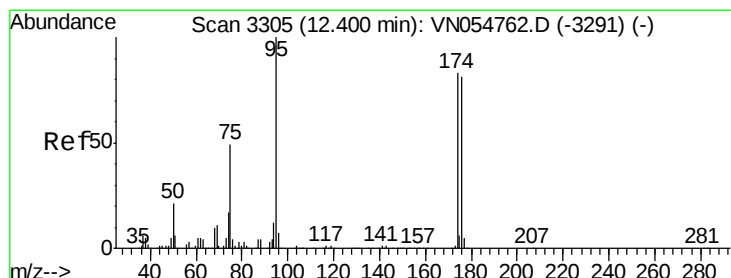
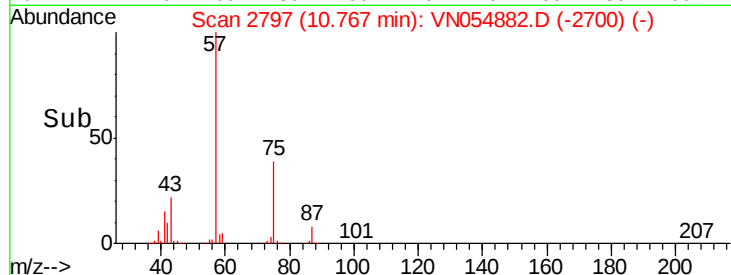
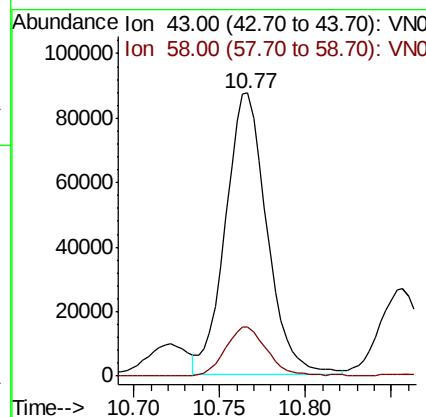
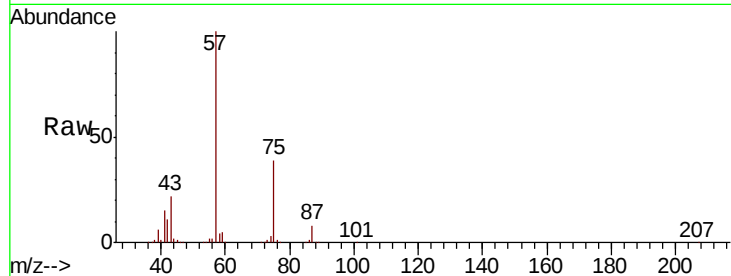
TP-TRACK-86-87-SOIL

Tot Ion: 43 Resp: 146899

Ion Ratio Lower Upper

43 100

58 17.5 28.0 83.9#



#62

4-Bromofluorobenzene

Concen: 43.998 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054882.D

Acq: 1 Apr 2019 18:34

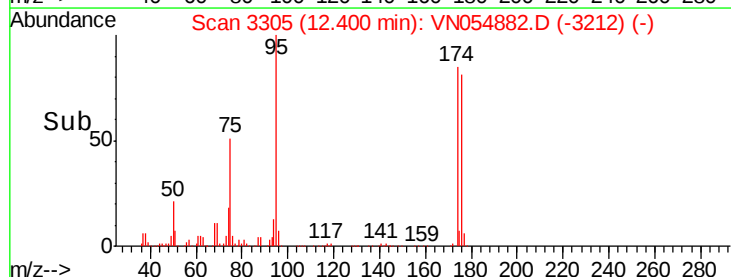
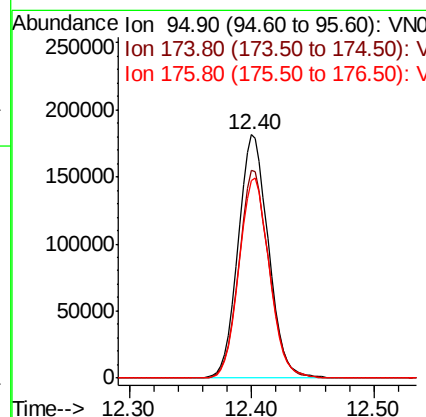
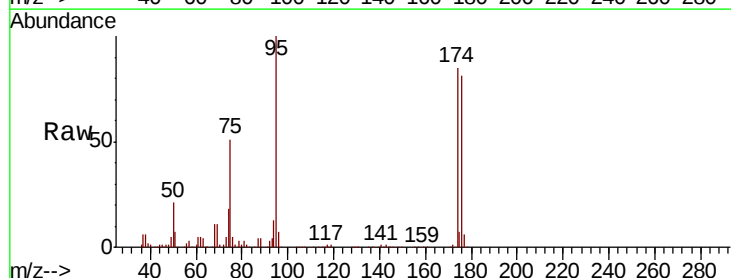
Tgt Ion: 95 Resp: 311948

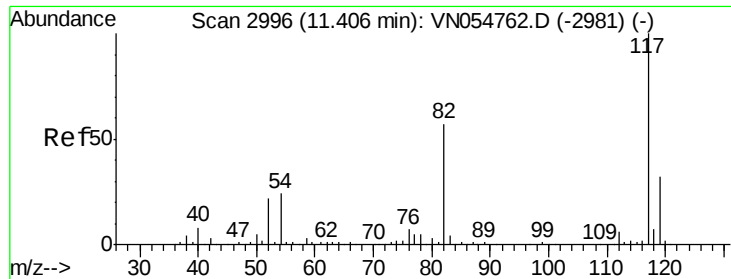
Ion Ratio Lower Upper

95 100

174 84.8 0.0 191.0

176 82.3 0.0 187.4

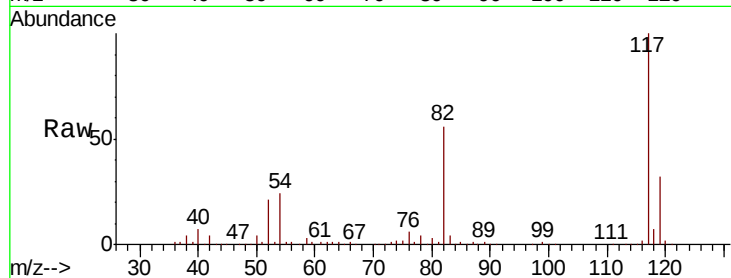




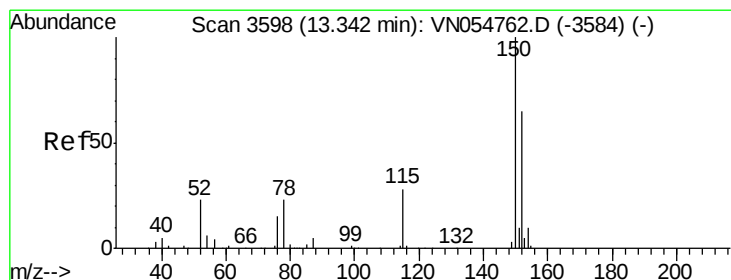
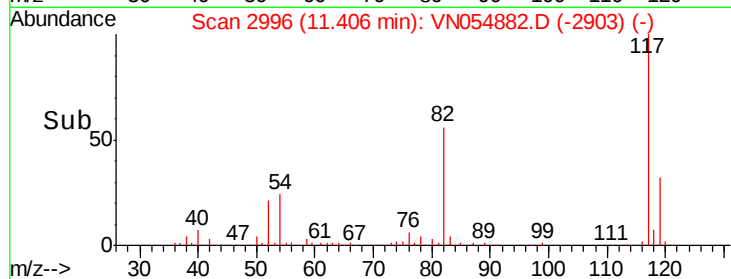
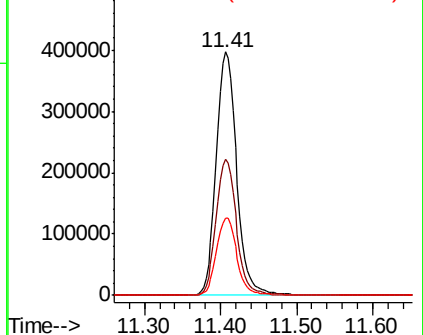
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054882.D
Acq: 1 Apr 2019 18:34

Instrument :
MSVOA_N
ClientSampleId :
TP-TRACK-86-87-SOIL

Tot Ion:117 Resp: 740507
Ion Ratio Lower Upper
117 100
82 56.0 40.0 60.0
119 31.6 25.8 38.6

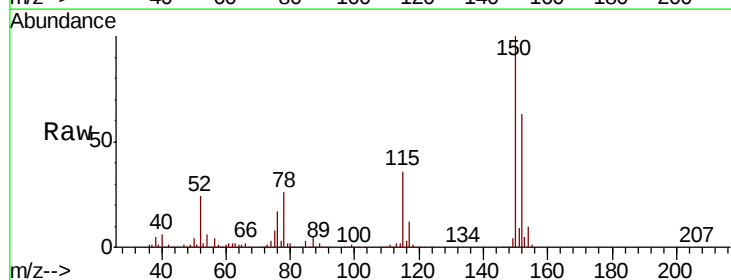


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

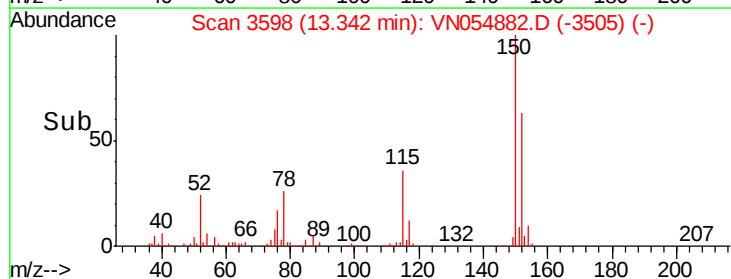
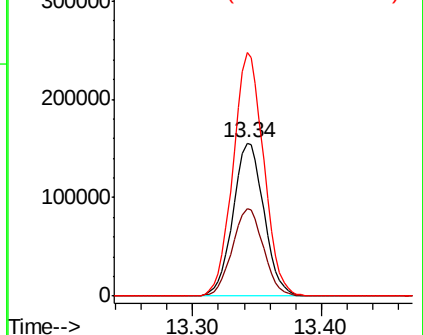


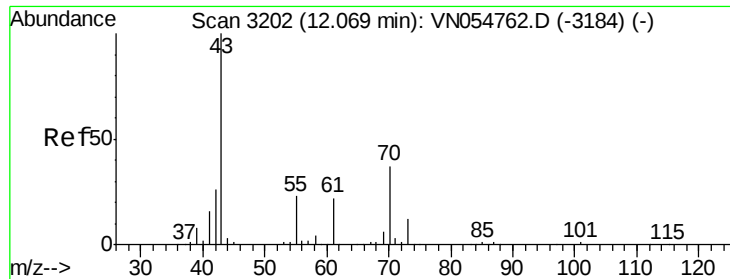
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN054882.D
Acq: 1 Apr 2019 18:34

Tgt Ion:152 Resp: 258949
Ion Ratio Lower Upper
152 100
115 57.6 27.2 81.6
150 157.3 0.0 349.2



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





#74

N-amvl acetate

Concen: 1.845 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN054882.D

Acq: 1 Apr 2019 18:34

Instrument :

MSVOA_N

ClientSampleId :

TP-TRACK-86-87-SOIL

Tot Ion: 43 Resp: 12168

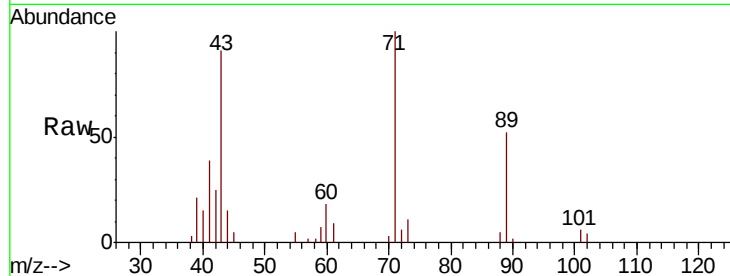
Ion Ratio Lower Upper

43 100

70 1.9 35.4 53.0#

55 5.3 19.8 29.6#

61 11.1 19.8 29.6#

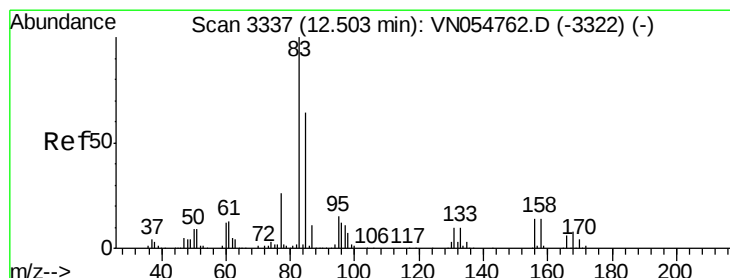
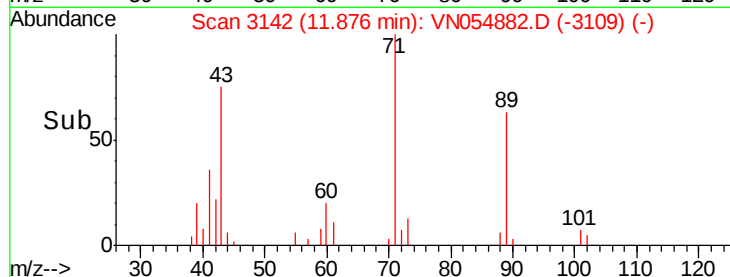
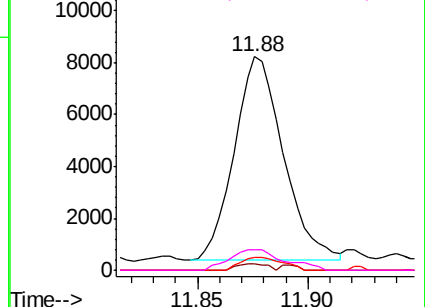


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3304

Delta R.T. -0.11 min

Lab File: VN054882.D

Acq: 1 Apr 2019 18:34

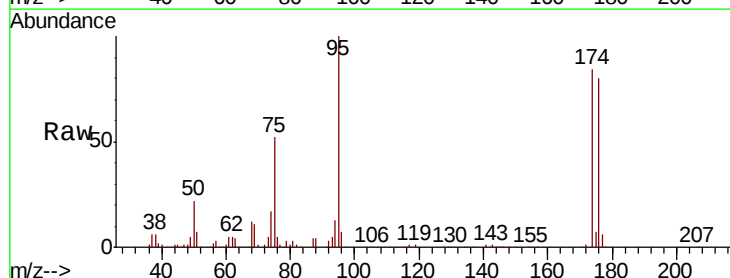
Tgt Ion: 83 Resp: 181

Ion Ratio Lower Upper

83 100

131 101.7 5.8 17.4#

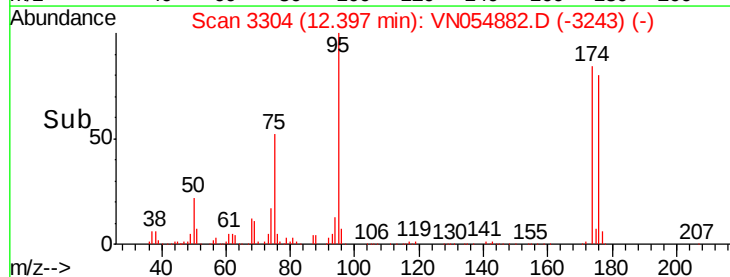
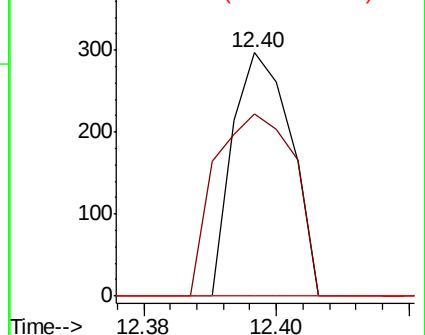
85 0.0 32.2 96.6#

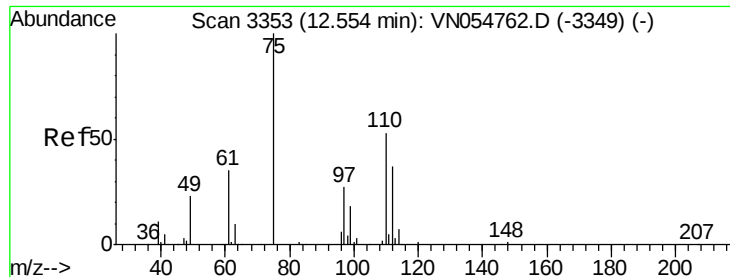


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0

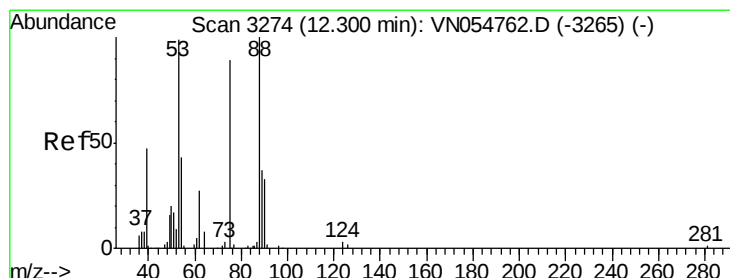
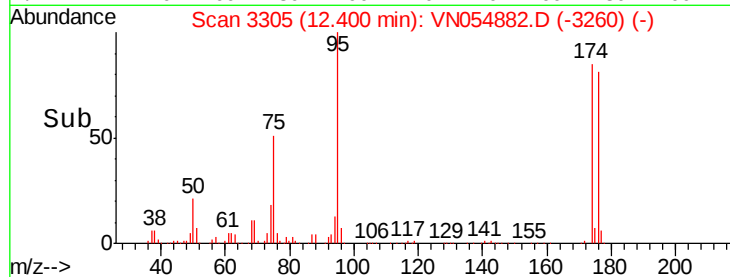
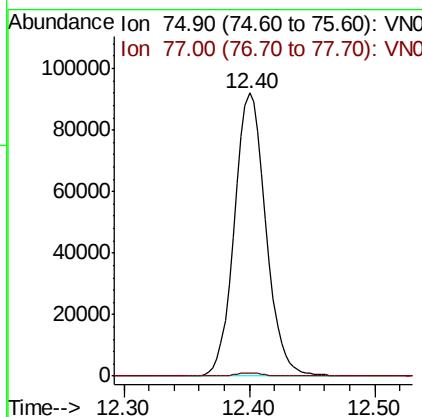
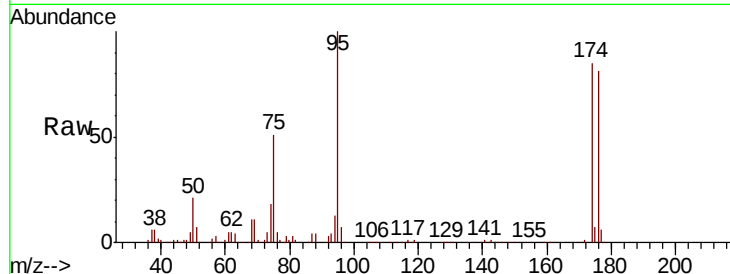




#76
 1,2,3-Trichloropropane
 Concen: 35.666 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN054882.D
 Acq: 1 Apr 2019 18:34

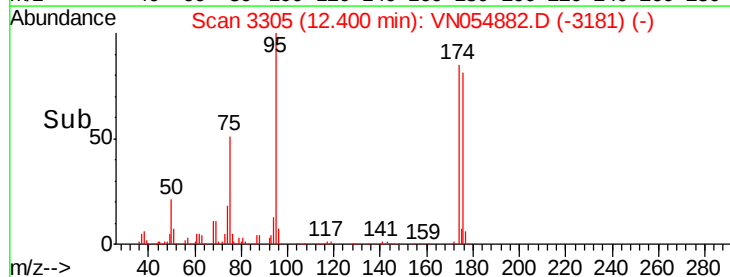
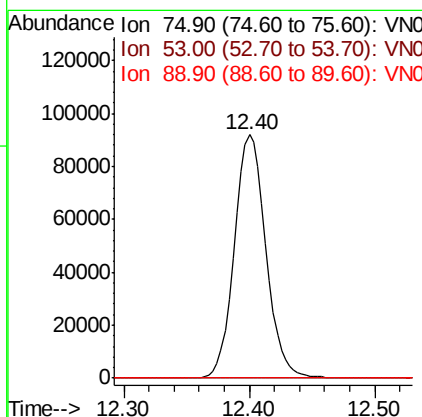
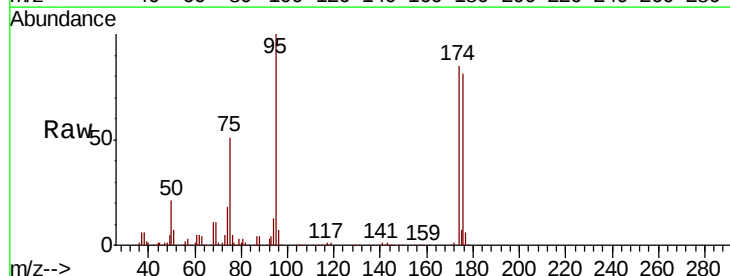
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-TRACK-86-87-SOIL

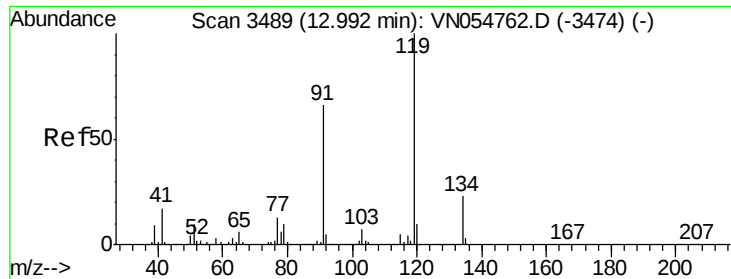
Tot Ion: 75 Resp: 160445
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 138.732 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN054882.D
 Acq: 1 Apr 2019 18:34

Tgt Ion: 75 Resp: 160445
 Ion Ratio Lower Upper
 75 100
 53 0.0 76.2 114.2#
 89 0.0 39.2 58.8#

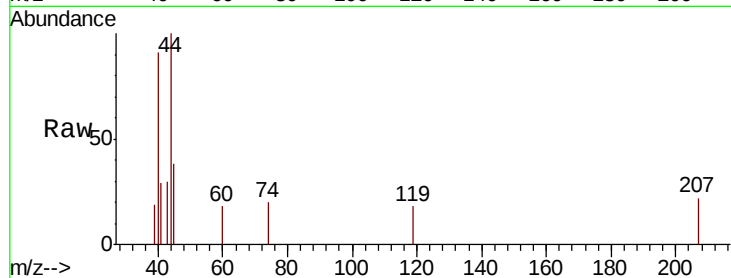




#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 13.00 min Scan# 3491
 Delta R.T. 0.01 min
 Lab File: VN054882.D
 Acq: 1 Apr 2019 18:34

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-TRACK-86-87-SOIL

Tot Ion	Ratio	Lower	Upper
119	100		
91	0.0	30.9	92.8#
134	0.0	13.2	39.6#



Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): VN
 Ion 134.00 (133.70 to 134.70): V

