

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092818\
 Data File : VF060381.D
 Acq On : 28 Sep 2018 21:45
 Operator : VA/AP
 Sample : J5170-13
 Misc : 8.48/5mL/MSVOA F/SOIL
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-3

Quant Time: Sep 29 00:20:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F091918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 20 02:58:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	0.00	168	0	0.00	ug/l	-5.04
34) 1,4-Difluorobenzene	5.71	114	93	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.71	117	63	50.00	ug/l	-0.20
72) 1,4-Dichlorobenzene-d4	12.62	152	67	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	133	0.00	ug/l	-0.17
Spiked Amount			Recovery	=	0.00%	
35) Dibromofluoromethane	4.11	113	82	98.91	ug/l	-0.17
Spiked Amount			Recovery	=	197.82%	
50) Toluene-d8	7.74	98	91	42.15	ug/l	0.03
Spiked Amount			Recovery	=	84.30%	
62) 4-Bromofluorobenzene	11.40	95	61	65.36	ug/l	-0.10
Spiked Amount			Recovery	=	130.72%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
36) 1,1-Dichloropropene	4.42	75	77	66.377	ug/l #	16
37) Ethyl Acetate	4.23	43	322	656.009	ug/l #	1
38) Carbon Tetrachloride	4.03	117	104	83.466	ug/l #	14
39) Methylcyclohexane	5.50	83	96	76.356	ug/l #	69
40) Benzene	4.79	78	72	27.372	ug/l #	53
41) Methacrylonitrile	4.86	41	807	3029.914	ug/l #	23
42) 1,2-Dichloroethane	4.90	62	82	84.695	ug/l	79
43) Isopropyl Acetate	7.02	43	260	439.997	ug/l #	48
45) 1,2-Dichloropropane	6.44	63	79	116.047	ug/l #	1
47) Bromodichloromethane	6.52	83	67	57.295	ug/l #	26
48) Methyl methacrylate	6.83	41	304	732.877	ug/l #	75
49) 1,4-Dioxane	6.80	88	63	17000.213	ug/l #	19
51) 4-Methyl-2-Pentanone	8.31	43	328	720.182	ug/l #	35
52) Toluene	7.73	92	67	40.263	ug/l #	1
53) t-1,3-Dichloropropene	8.47	75	63	66.790	ug/l #	42
54) cis-1,3-Dichloropropene	7.36	75	80	67.323	ug/l #	1
55) 1,1,2-Trichloroethane	8.55	97	90	178.199	ug/l #	17
56) Ethyl methacrylate	8.73	69	137	224.601	ug/l #	20
57) 1,3-Dichloropropane	8.95	76	96	114.797	ug/l #	40
58) 2-Chloroethyl Vinyl ether	7.73	63	76	1409.413	ug/l	100
59) 2-Hexanone	9.52	43	402	1239.682	ug/l	94
61) 1,2-Dibromoethane	9.17	107	62	110.239	ug/l #	4
65) Chlorobenzene	9.94	112	69	48.324	ug/l #	41
67) Ethyl Benzene	10.05	91	67	25.378	ug/l #	46
68) m/p-Xylenes	10.20	106	118	129.372	ug/l #	3
69) o-Xylene	10.88	106	70	68.423	ug/l #	1
71) Bromoform	10.93	173	72	221.244	ug/l #	31
73) Isopropylbenzene	11.35	105	107	17.790	ug/l #	51
74) N-amyl acetate	11.46	43	770	600.334	ug/l #	46
75) 1,1,2,2-Tetrachloroethane	11.76	83	129	121.019	ug/l #	27
76) 1,2,3-Trichloropropane	11.85	75	59	77.303	ug/l #	34
78) n-propylbenzene	11.66	91	219	34.330	ug/l #	57
79) 2-Chlorotoluene	11.80	91	73	17.992	ug/l #	42
80) 1,3,5-Trimethylbenzene	11.92	105	73	15.077	ug/l #	28

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092818\
 Data File : VF060381.D
 Acq On : 28 Sep 2018 21:45
 Operator : VA/AP
 Sample : J5170-13
 Misc : 8.48/5mL/MSVOA F/SOIL
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-3

Quant Time: Sep 29 00:20:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F091918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 20 02:58:42 2018
 Response via : Initial Calibration

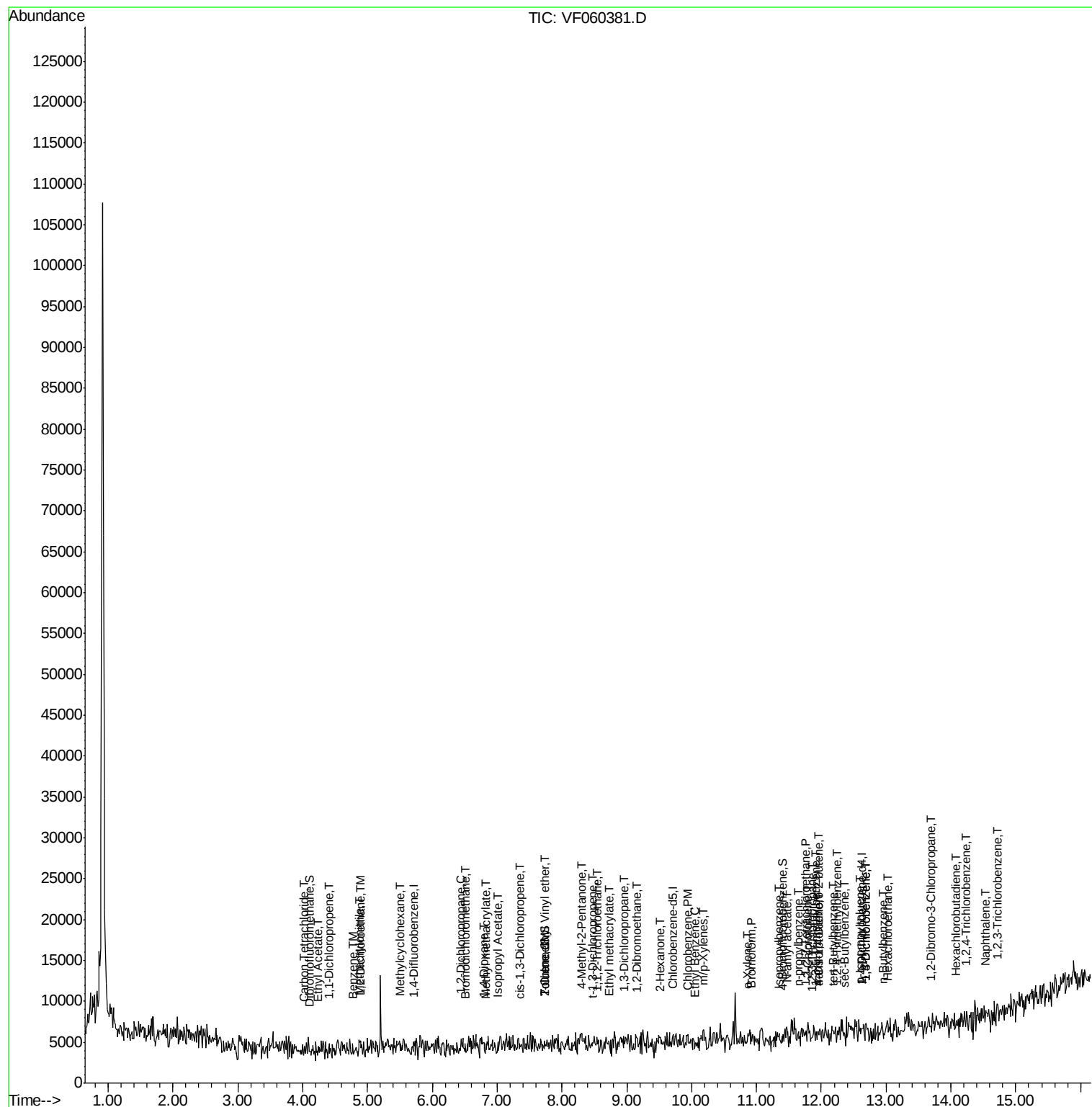
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
81) trans-1,4-Dichloro-2-buten	11.95	75	100	247.924	ug/l #	20
82) 4-Chlorotoluene	11.95	91	98	24.031	ug/l #	43
83) tert-Butylbenzene	12.20	119	64	13.040	ug/l #	29
84) 1,2,4-Trimethylbenzene	12.26	105	59	12.001	ug/l #	31
85) sec-Butylbenzene	12.37	105	103	11.604	ug/l #	58
86) p-Isopropyltoluene	12.60	119	133	25.196	ug/l #	1
87) 1,3-Dichlorobenzene	12.67	146	71	29.312	ug/l #	24
88) 1,4-Dichlorobenzene	12.67	146	71	29.656	ug/l #	25
89) n-Butylbenzene	12.96	91	92	14.008	ug/l #	28
90) Hexachloroethane	13.04	117	90	65.530	ug/l #	22
92) 1,2-Dibromo-3-Chloropropan	13.69	75	105	524.648	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.25	180	75	44.657	ug/l #	10
94) Hexachlorobutadiene	14.09	225	131	115.384	ug/l #	47
95) Naphthalene	14.53	128	75	25.471	ug/l #	68
96) 1,2,3-Trichlorobenzene	14.72	180	73	47.040	ug/l #	12

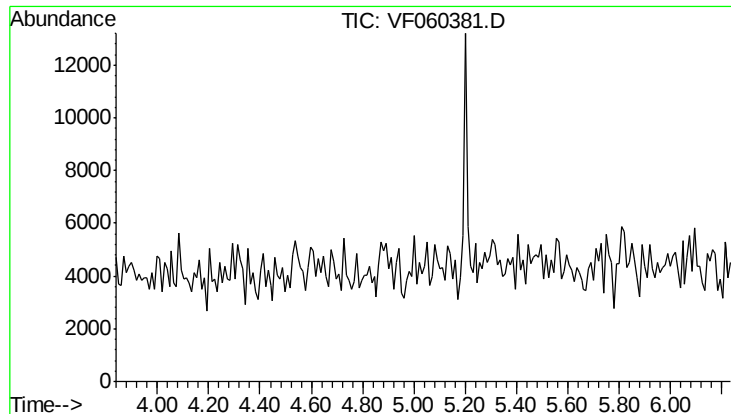
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF092818\
 Data File : VF060381.D
 Acq On : 28 Sep 2018 21:45
 Operator : VA/AP
 Sample : J5170-13
 Misc : 8.48/5mL/MSVOA F/SOIL
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-3

Quant Time: Sep 29 00:20:49 2018
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F091918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 20 02:58:42 2018
 Response via : Initial Calibration

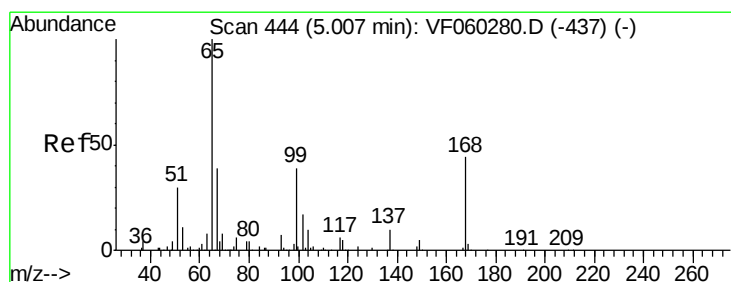
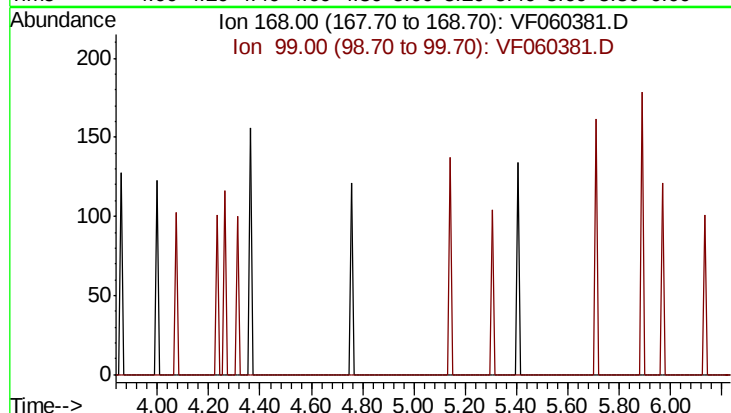




#1
 Pentafluorobenzene
 Concen: 0.000 ug/l
 Expected RT: 5.04 min
 Lab File: VF060381.D
 Acq: 28 Sep 2018 21:45

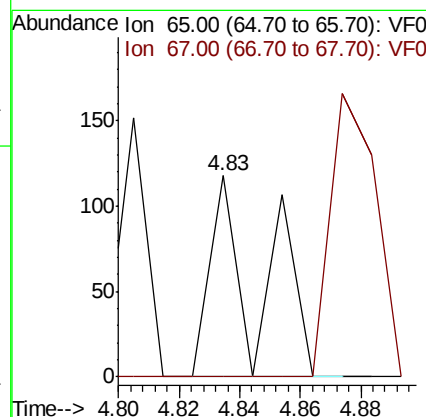
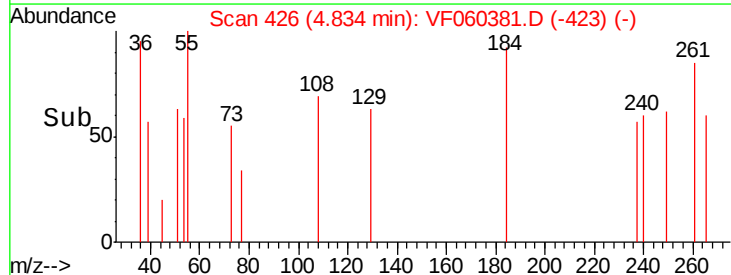
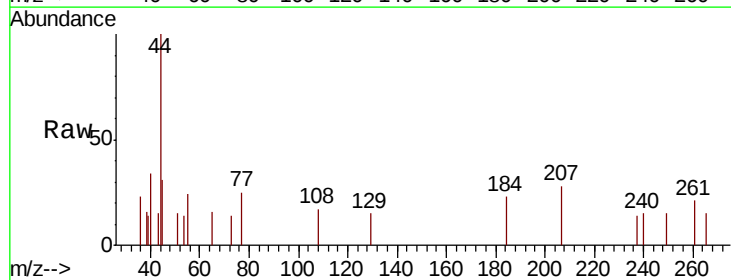
Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-3

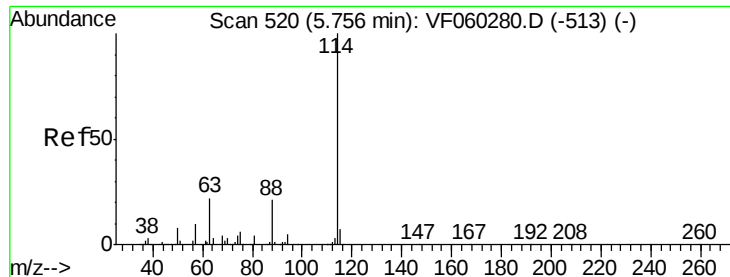
Tot Ion: 168
 Sig Exp Ratio
 168 100
 99 68.5



#33
 1,2-Dichloroethane-d4
 Concen: 0.000 ug/l
 RT: 4.83 min Scan# 426
 Delta R.T. -0.17 min
 Lab File: VF060381.D
 Acq: 28 Sep 2018 21:45

Tgt Ion: 65 Resp: 133
 Ion Ratio Lower Upper
 65 100
 67 0.0 0.0 94.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.71 min Scan# 515

Delta R.T. -0.04 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-3

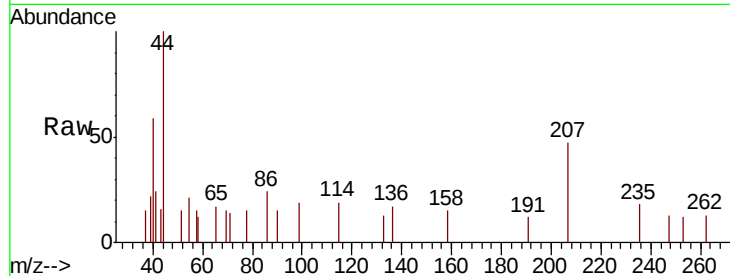
Tot Ion:114 Resp: 93

Ion Ratio Lower Upper

114 100

63 0.0 0.0 43.8

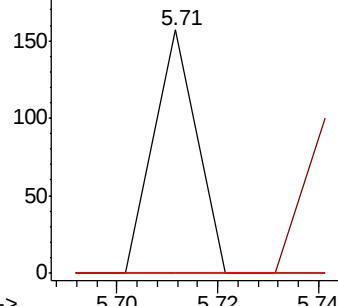
88 0.0 0.0 41.2



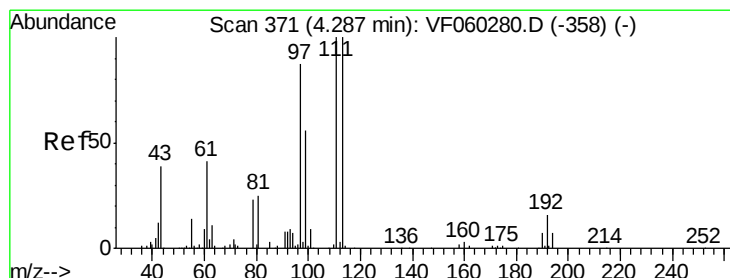
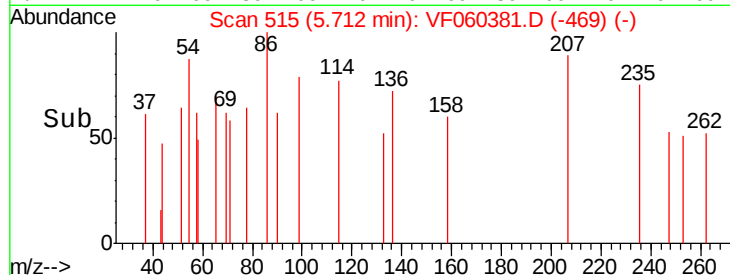
Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



Time-->



#35

Dibromofluoromethane

Concen: 98.911 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.17 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

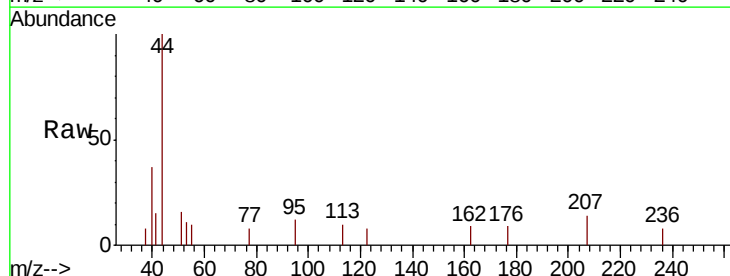
Tgt Ion:113 Resp: 82

Ion Ratio Lower Upper

113 100

111 0.0 79.6 119.4#

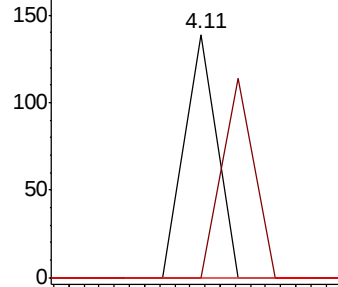
192 0.0 13.0 19.6#



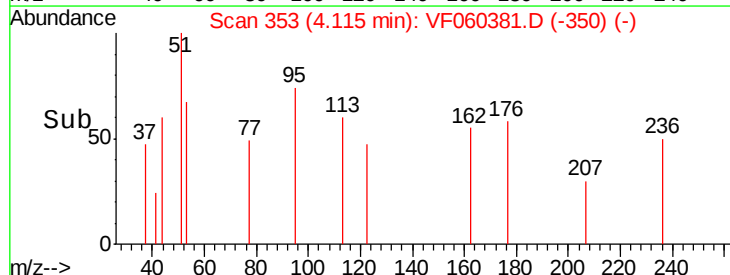
Abundance Ion 113.00 (112.70 to 113.70): V

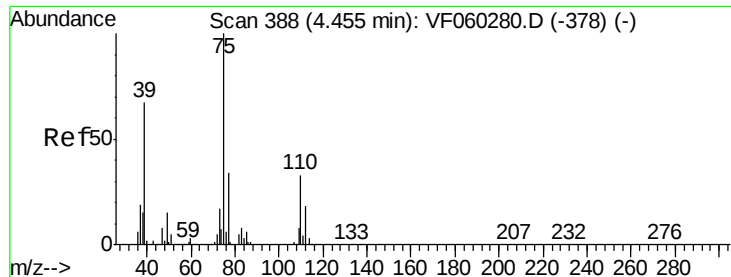
Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



Time-->





#36

1,1-Dichloropropene

Concen: 66.377 ug/l

RT: 4.42 min Scan# 384

Delta R.T. -0.03 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-3

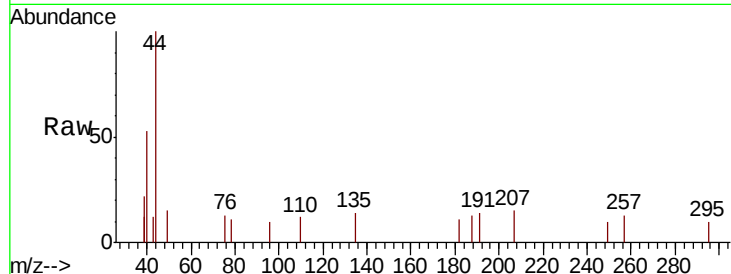
Tot Ion: 75 Resp: 77

Ion Ratio Lower Upper

75 100

110 94.6 16.4 49.2#

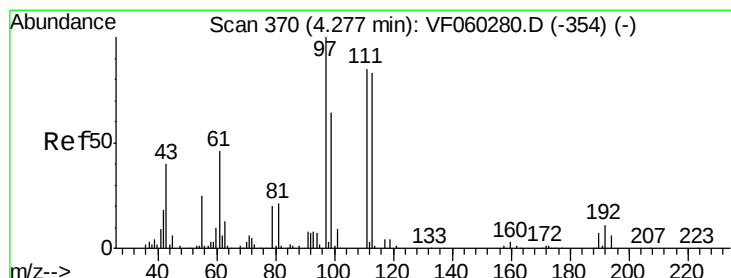
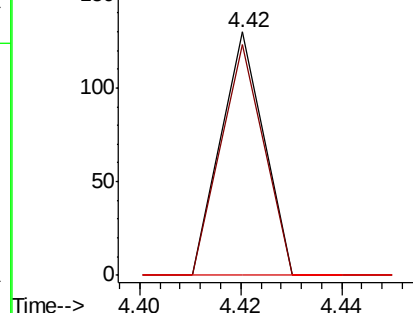
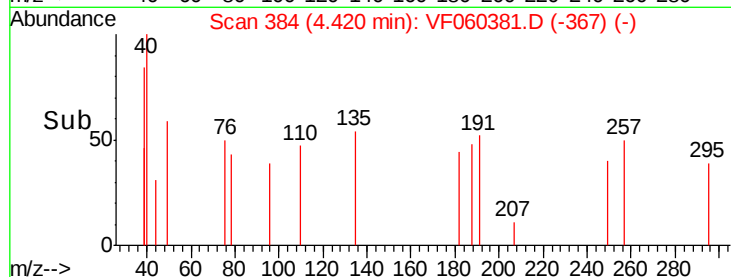
77 0.0 27.3 40.9#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#37

Ethyl Acetate

Concen: 656.009 ug/l

RT: 4.23 min Scan# 365

Delta R.T. -0.04 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

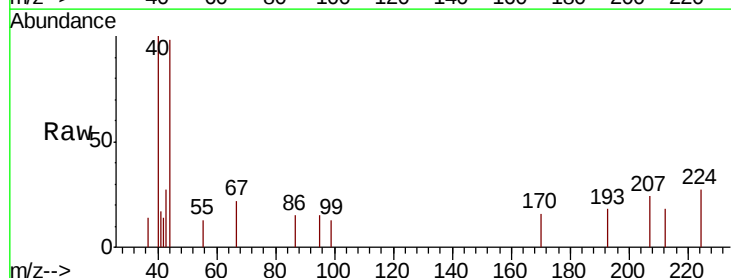
Tgt Ion: 43 Resp: 322

Ion Ratio Lower Upper

43 100

61 0.0 91.1 136.7#

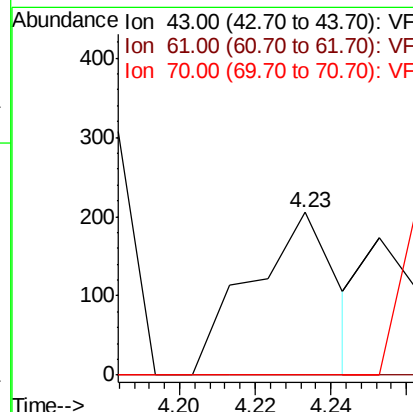
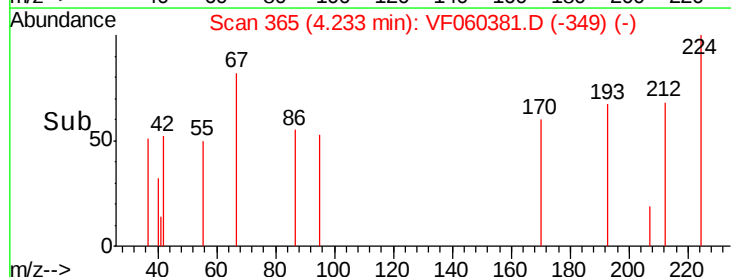
70 0.0 6.9 10.3#

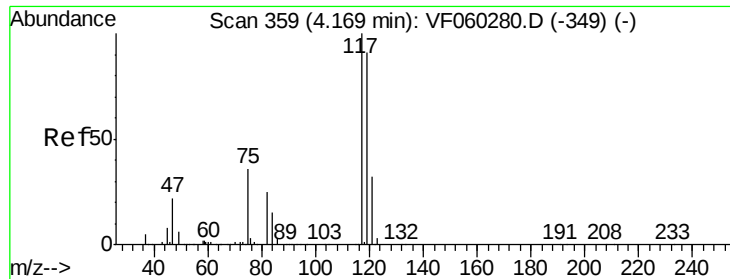


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0





#38

Carbon Tetrachloride

Concen: 83.466 ug/l

RT: 4.03 min Scan# 344

Delta R.T. -0.14 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-3

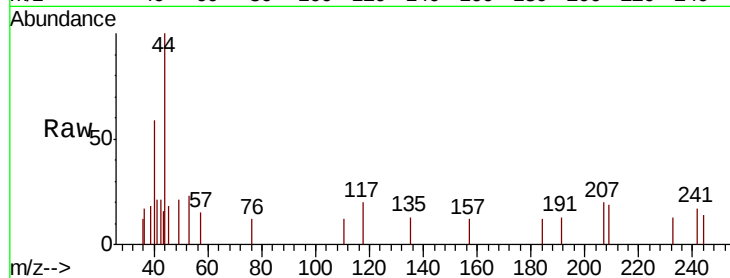
Tot Ion:117 Resp: 104

Ion Ratio Lower Upper

117 100

119 0.0 73.0 109.6#

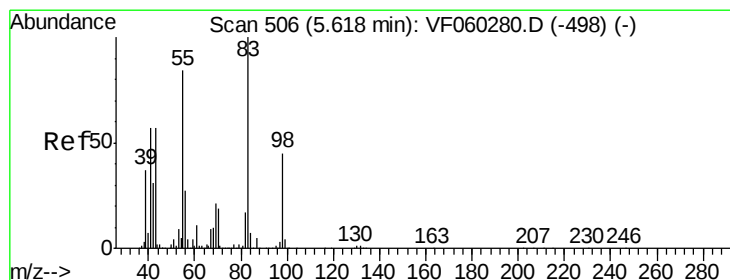
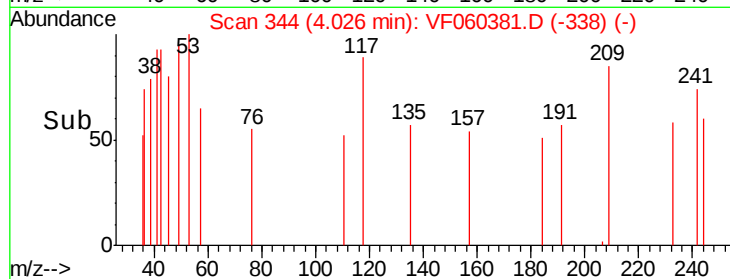
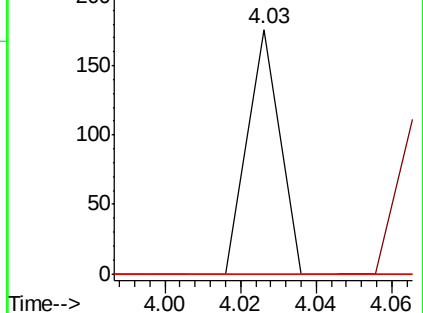
121 0.0 25.4 38.2#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#39

Methylcyclohexane

Concen: 76.356 ug/l

RT: 5.50 min Scan# 494

Delta R.T. -0.11 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

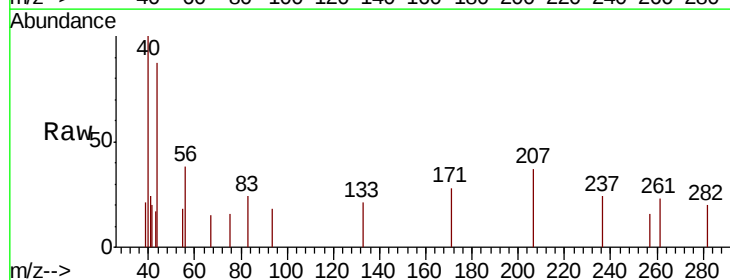
Tgt Ion: 83 Resp: 96

Ion Ratio Lower Upper

83 100

55 74.2 67.3 100.9

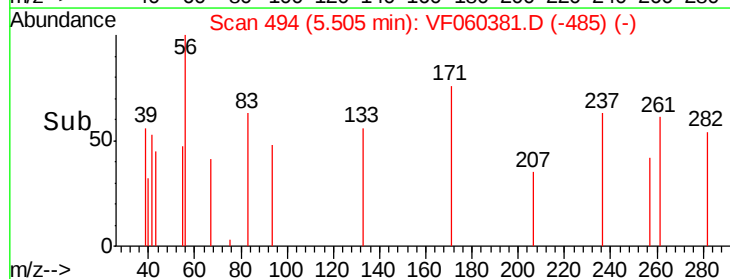
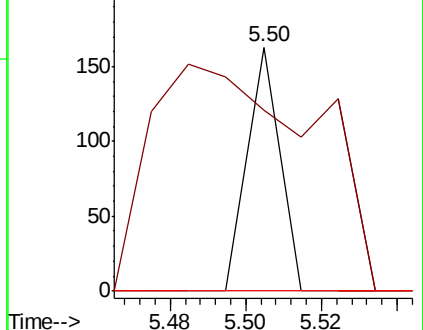
98 0.0 36.1 54.1#

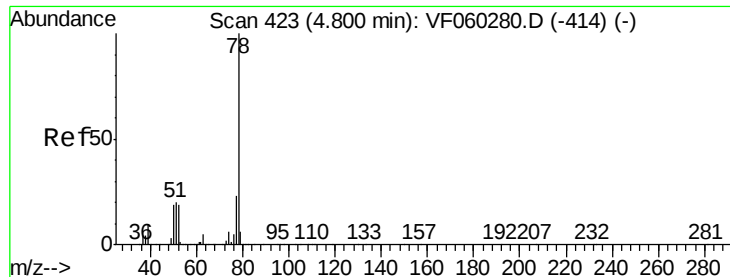


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#40

Benzene

Concen: 27.372 ug/l

RT: 4.79 min Scan# 421

Delta R.T. -0.01 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

Instrument :

MSVOA_F

ClientSampleId :

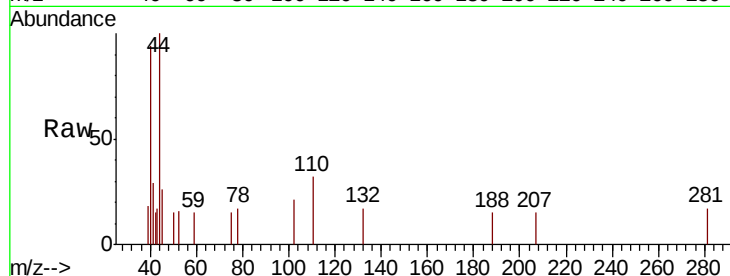
HC-SOIL-3

Tot Ion: 78 Resp: 72

Ion Ratio Lower Upper

78 100

77 0.0 18.4 27.6#



Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0

150

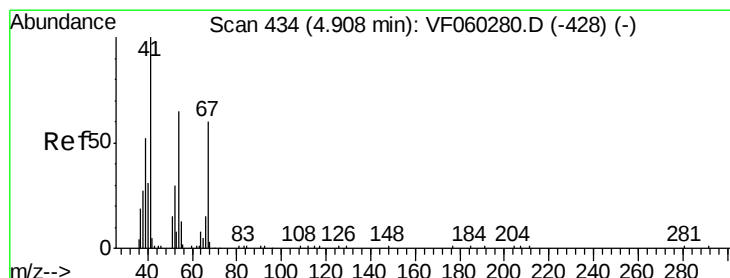
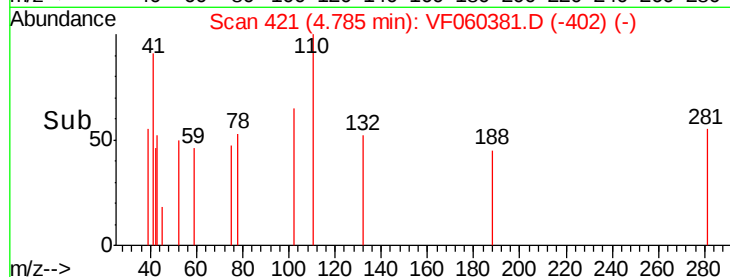
100

50

0

4.76 4.78 4.80

Time-->



#41

Methacrylonitrile

Concen: 3029.914 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.04 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

Tgt Ion: 41 Resp: 807

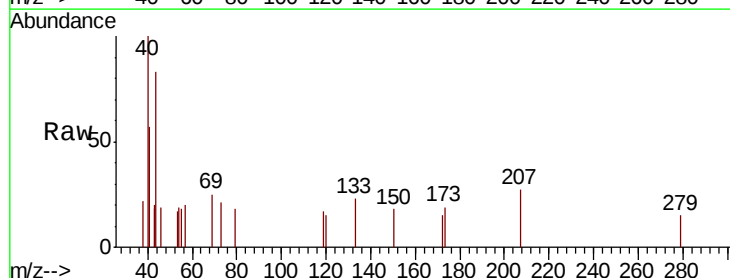
Ion Ratio Lower Upper

41 100

39 0.0 49.1 73.7#

67 0.0 48.2 72.4#

52 0.0 35.8 53.8#



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

600

500

400

300

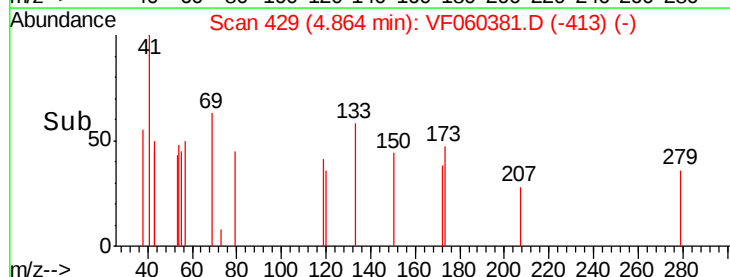
200

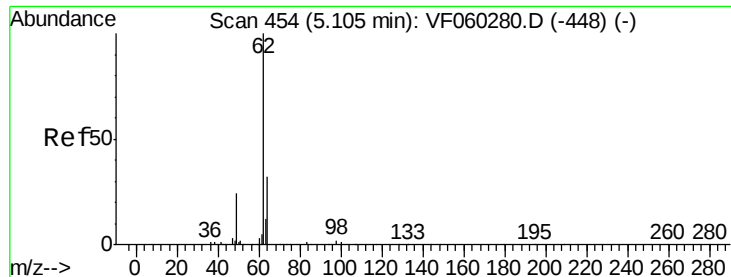
100

0

4.80 4.85 4.90

Time-->





#42

1,2-Dichloroethane

Concen: 84.695 ug/l

RT: 4.90 min Scan# 433

Delta R.T. -0.20 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

Instrument :

MSVOA_F

ClientSampleId :

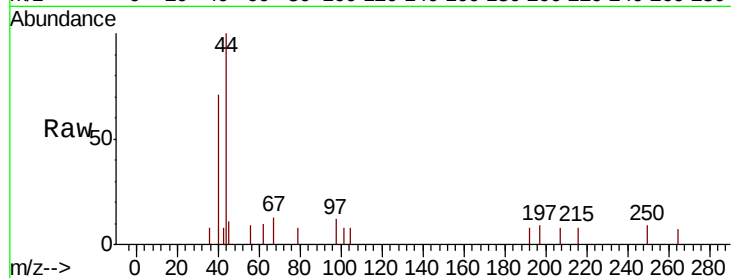
HC-SOIL-3

Tot Ion: 62 Resp: 82

Ion Ratio Lower Upper

62 100

98 0.0 0.0 14.4



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

4.90

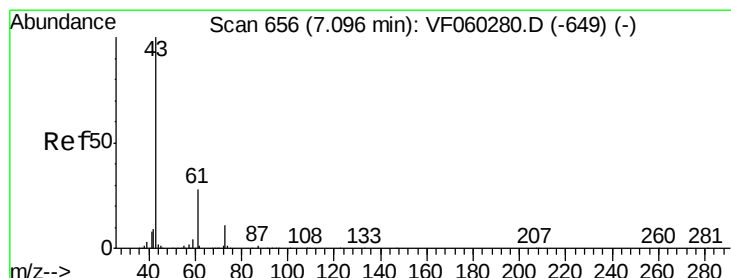
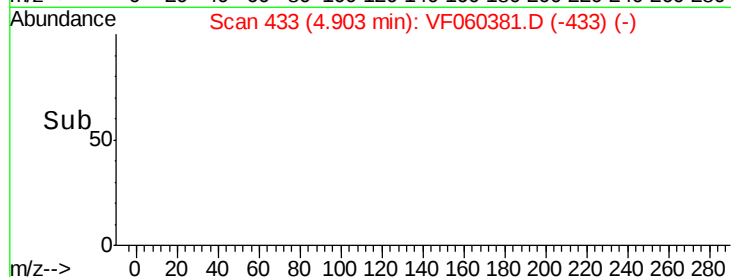
150

100

50

0

Time--> 4.88 4.90 4.92



#43

Isopropyl Acetate

Concen: 439.997 ug/l

RT: 7.02 min Scan# 648

Delta R.T. -0.07 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

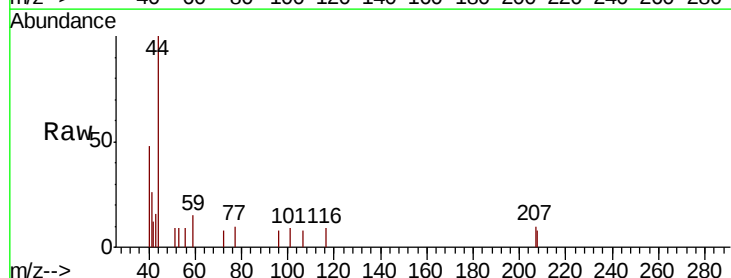
Tgt Ion: 43 Resp: 260

Ion Ratio Lower Upper

43 100

61 0.0 22.4 33.6#

87 0.0 0.6 0.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

250

200

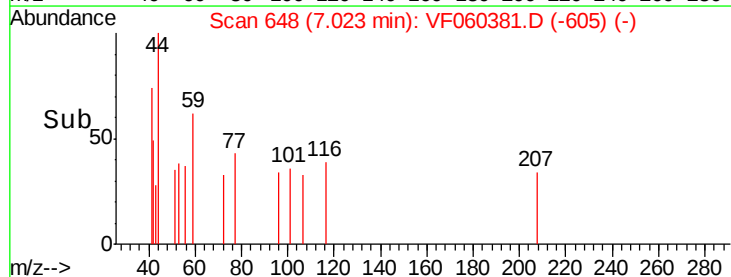
150

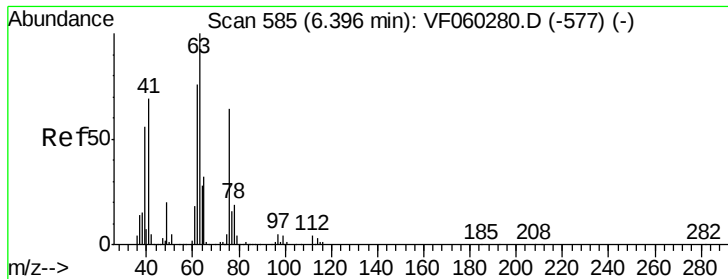
100

50

0

Time--> 7.00 7.02 7.04 7.06





#45

1,2-Dichloropropane

Concen: 116.047 ug/l

RT: 6.44 min Scan# 589

Delta R.T. 0.04 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

Instrument :

MSVOA_F

ClientSampleId :

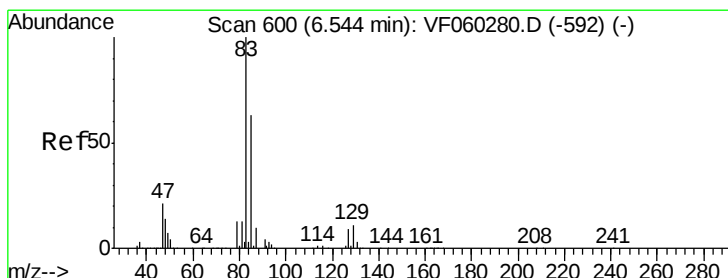
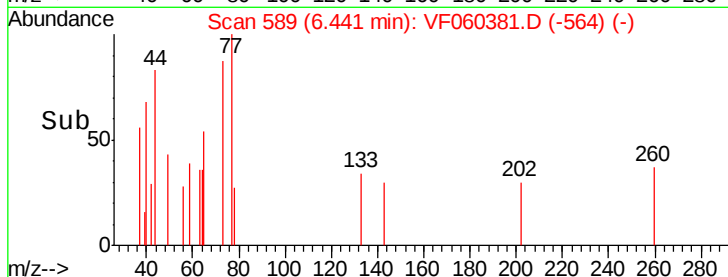
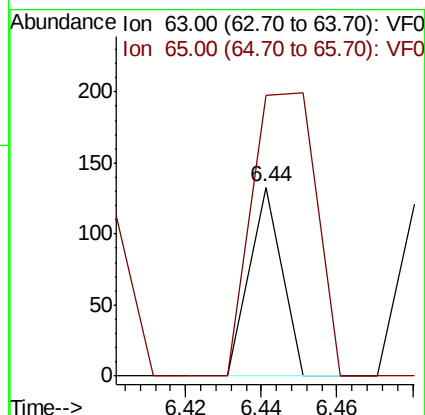
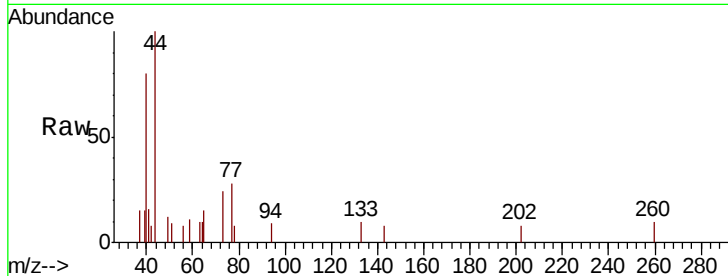
HC-SOIL-3

Tot Ion: 63 Resp: 79

Ion Ratio Lower Upper

63 100

65 148.9 26.2 39.4#



#47

Bromodichloromethane

Concen: 57.295 ug/l

RT: 6.52 min Scan# 597

Delta R.T. -0.02 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

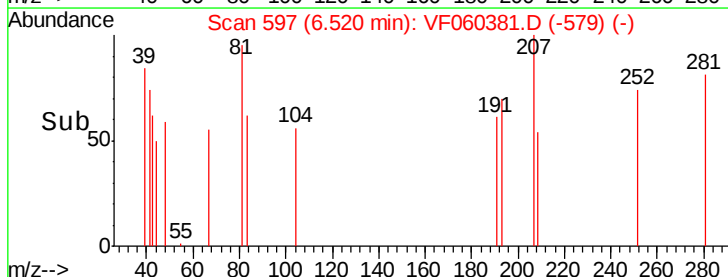
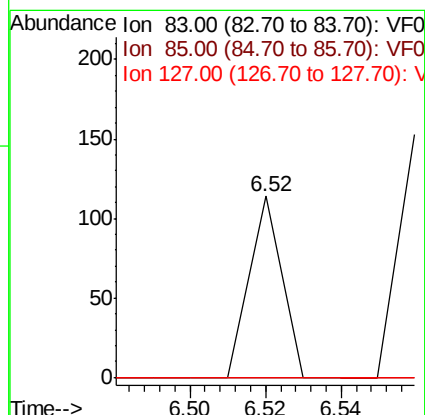
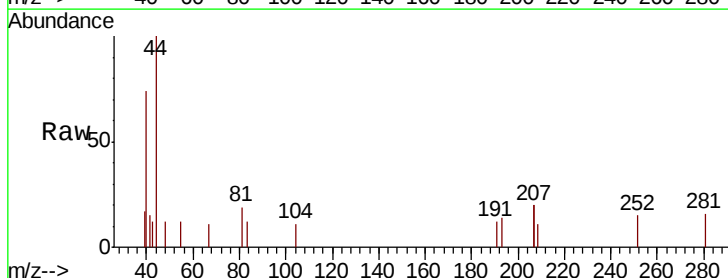
Tgt Ion: 83 Resp: 67

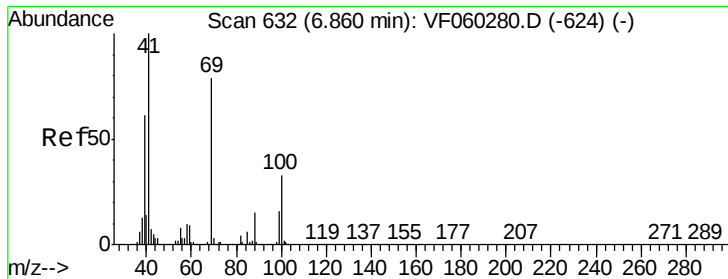
Ion Ratio Lower Upper

83 100

85 0.0 50.6 76.0#

127 0.0 7.1 10.7#

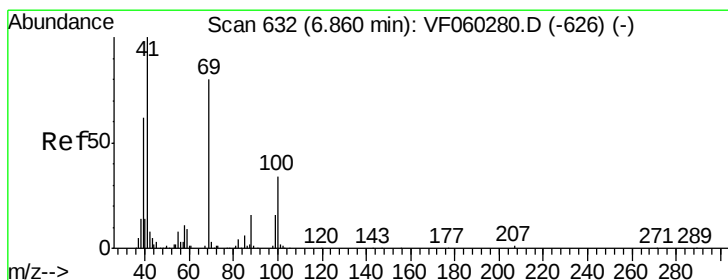
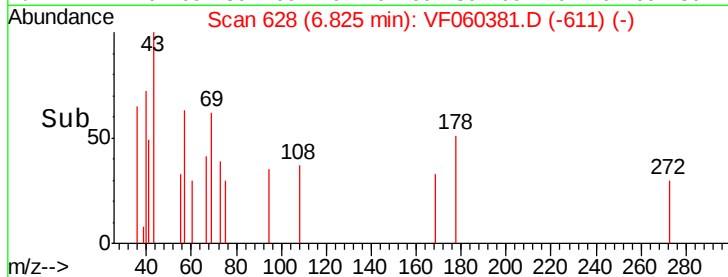
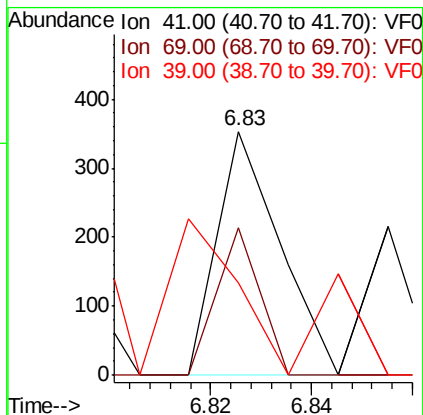
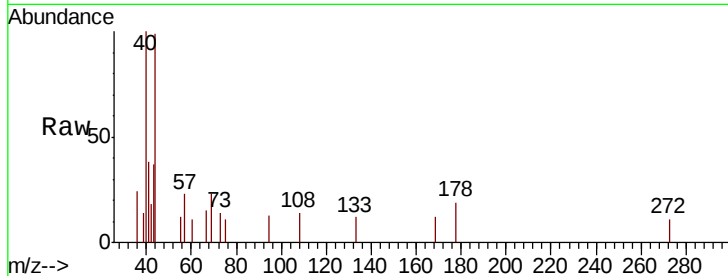




#48
Methyl methacrylate
Concen: 732.877 ug/l
RT: 6.83 min Scan# 628
Delta R.T. -0.03 min
Lab File: VF060381.D
Acq: 28 Sep 2018 21:45

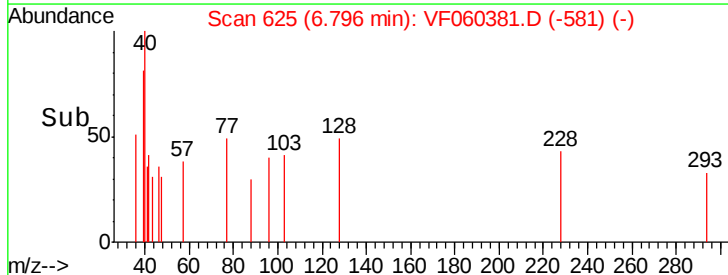
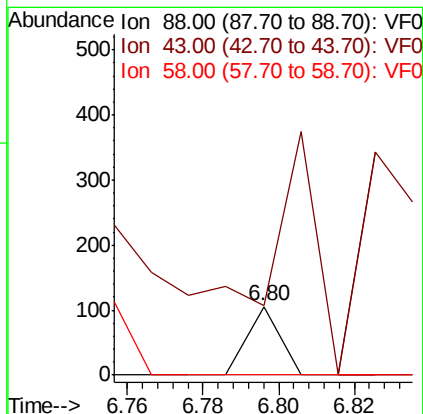
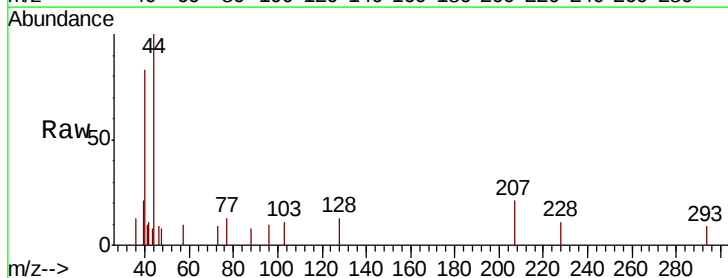
Instrument :
MSVOA_F
ClientSampled :
HC-SOIL-3

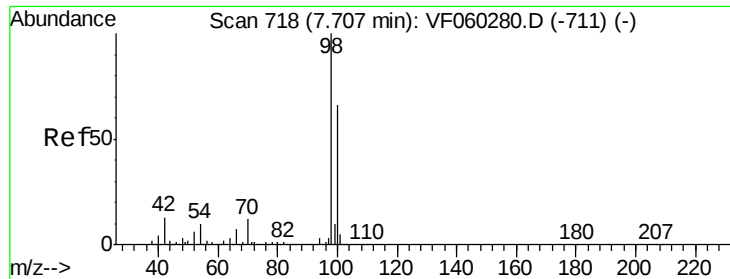
Tot Ion: 41 Resp: 304
Ion Ratio Lower Upper
41 100
69 60.3 62.6 94.0#
39 38.0 49.1 73.7#



#49
1,4-Dioxane
Concen: 17000.213 ug/l
RT: 6.80 min Scan# 625
Delta R.T. -0.06 min
Lab File: VF060381.D
Acq: 28 Sep 2018 21:45

Tgt Ion: 88 Resp: 63
Ion Ratio Lower Upper
88 100
43 100.9 40.2 60.4#
58 0.0 56.7 85.1#

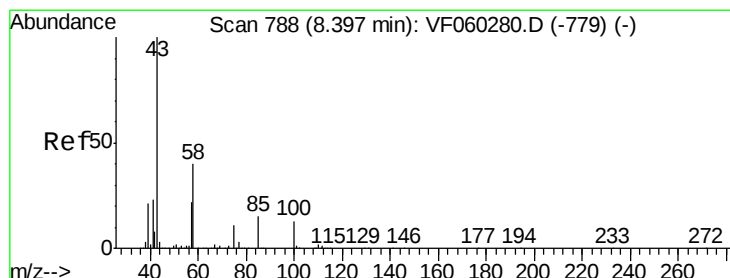
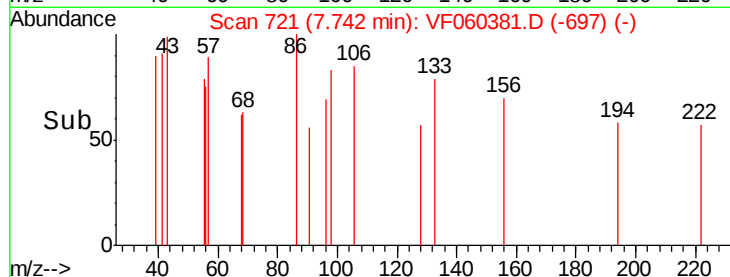
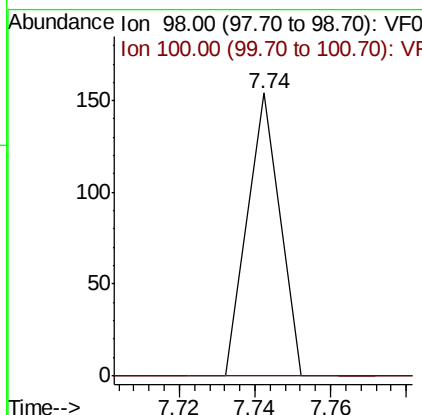
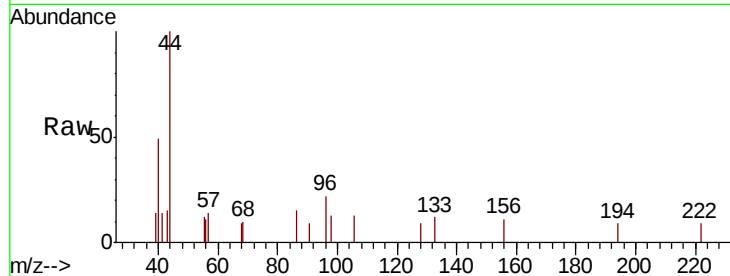




#50
Toluene-d8
Concen: 42.150 ug/l
RT: 7.74 min Scan# 721
Delta R.T. 0.03 min
Lab File: VF060381.D
Acq: 28 Sep 2018 21:45

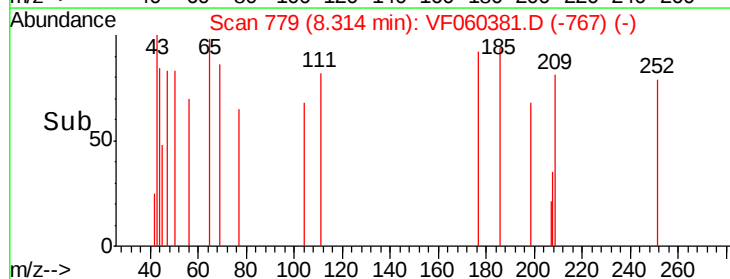
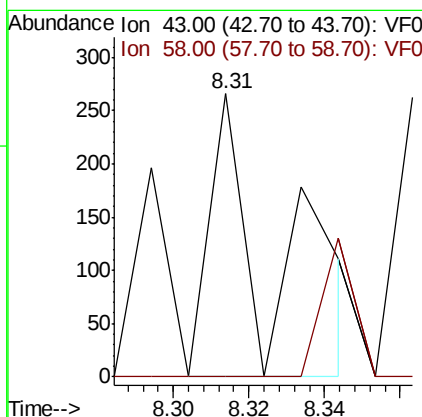
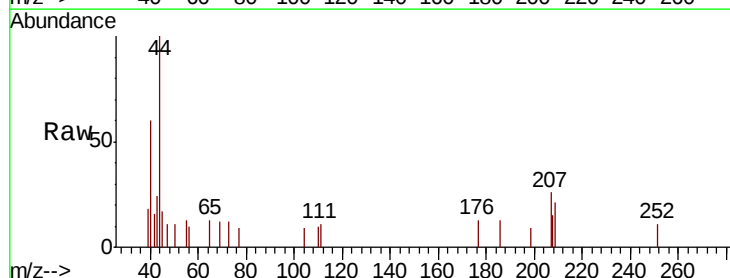
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-3

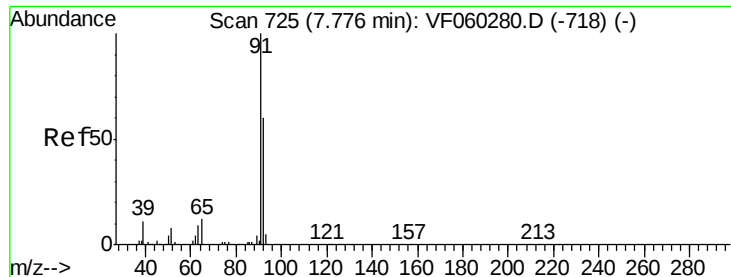
Tot Ion: 98 Resp: 91
Ion Ratio Lower Upper
98 100
100 0.0 53.0 79.6#



#51
4-Methyl-2-Pentanone
Concen: 720.182 ug/l
RT: 8.31 min Scan# 779
Delta R.T. -0.08 min
Lab File: VF060381.D
Acq: 28 Sep 2018 21:45

Tgt Ion: 43 Resp: 328
Ion Ratio Lower Upper
43 100
58 0.0 31.8 47.8#





#52

Toluene

Concen: 40.263 ug/l

RT: 7.73 min Scan# 720

Delta R.T. -0.04 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

Instrument :

MSVOA_F

ClientSampleId :

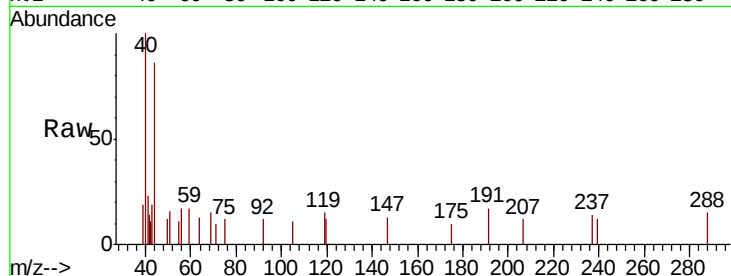
HC-SOIL-3

Tot Ion: 92 Resp: 67

Ion Ratio Lower Upper

92 100

91 0.0 133.3 199.9#



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.73

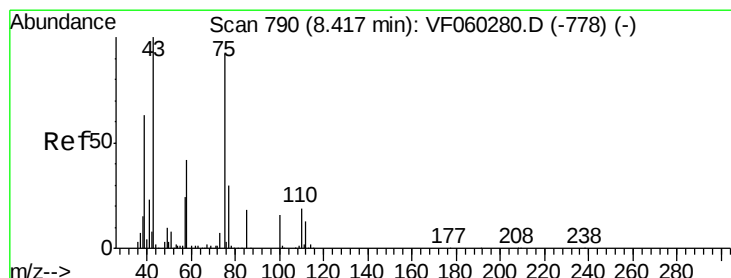
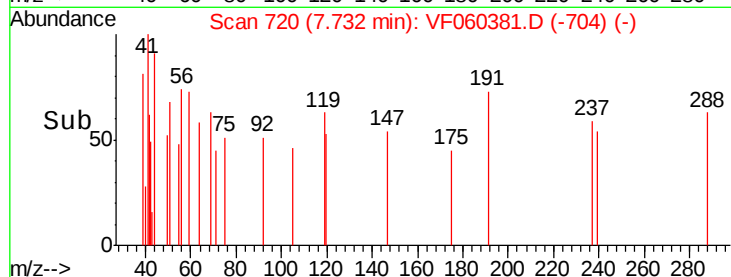
100

50

0

7.70 7.72 7.74 7.76

Time-->



#53

t-1,3-Dichloropropene

Concen: 66.790 ug/l

RT: 8.47 min Scan# 795

Delta R.T. 0.05 min

Lab File: VF060381.D

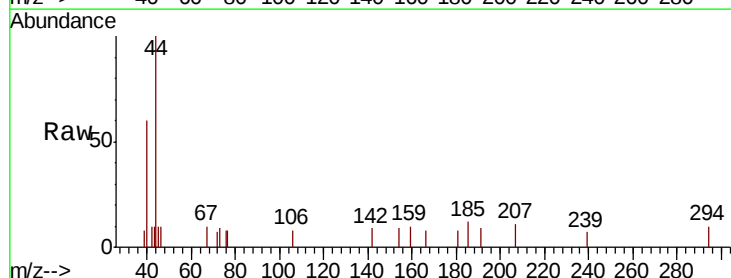
Acq: 28 Sep 2018 21:45

Tgt Ion: 75 Resp: 63

Ion Ratio Lower Upper

75 100

77 0.0 25.9 38.9#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

150

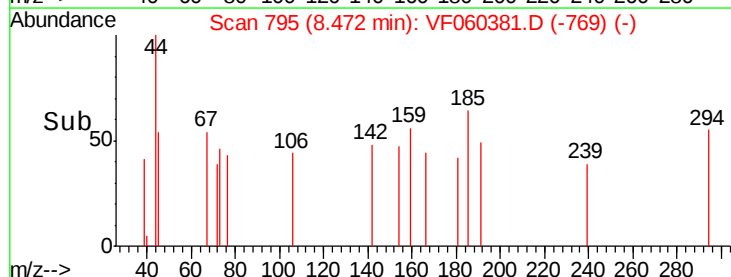
100

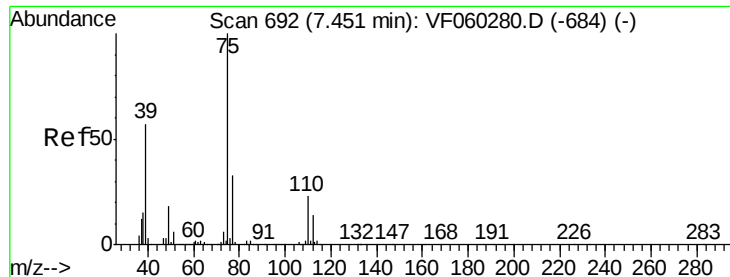
50

0

8.44 8.46 8.48

Time-->





#54

cis-1,3-Dichloropropene

Concen: 67.323 ug/l

RT: 7.36 min Scan# 682

Delta R.T. -0.09 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-3

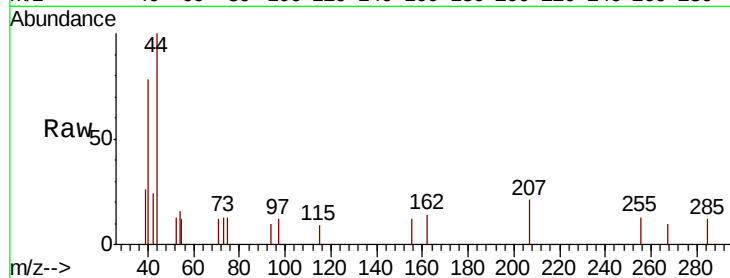
Tot Ion: 75 Resp: 80

Ion Ratio Lower Upper

75 100

77 0.0 26.3 39.5#

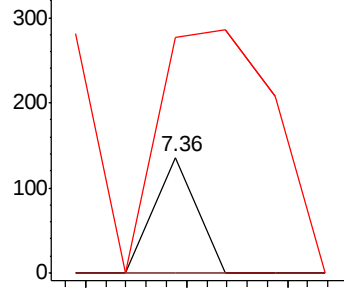
39 202.9 46.1 69.1#



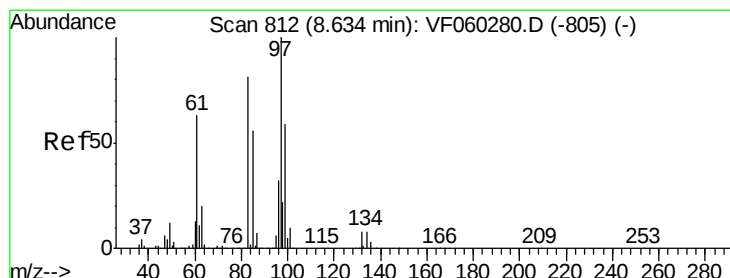
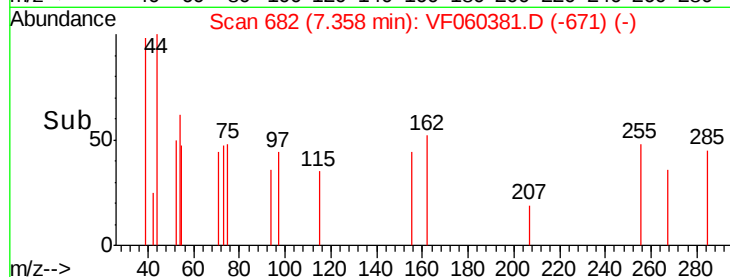
Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



Time-->



#55

1,1,2-Trichloroethane

Concen: 178.199 ug/l

RT: 8.55 min Scan# 803

Delta R.T. -0.08 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

Tgt Ion: 97 Resp: 90

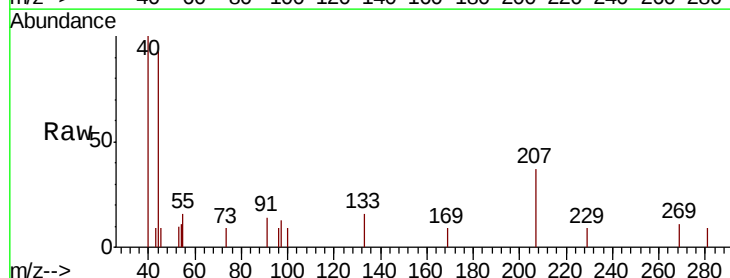
Ion Ratio Lower Upper

97 100

83 0.0 65.3 97.9#

85 0.0 44.7 67.1#

99 0.0 47.0 70.4#

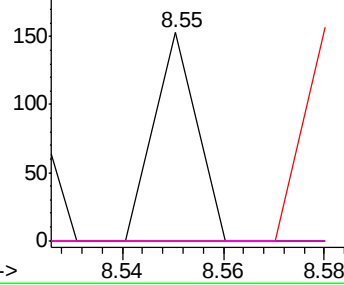


Abundance Ion 97.00 (96.70 to 97.70): VF0

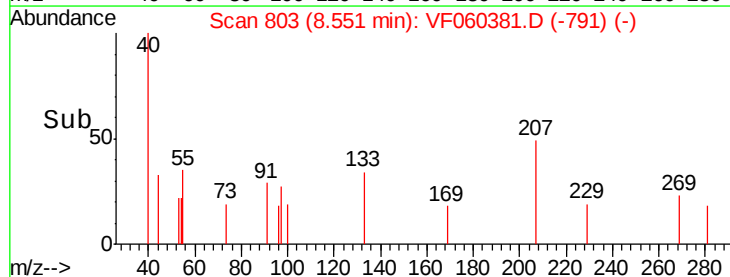
Ion 82.95 (82.65 to 83.65): VF0

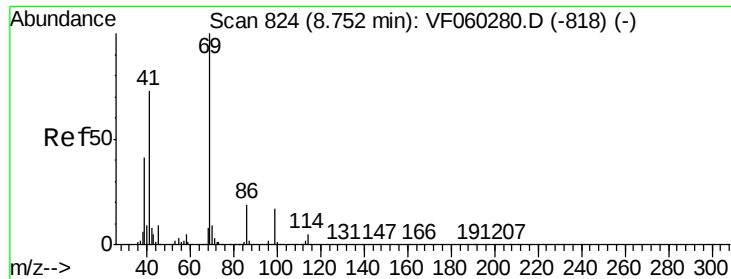
Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



Time-->





#56

Ethyl methacrylate

Concen: 224.601 ug/l

RT: 8.73 min Scan# 821

Delta R.T. -0.02 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

Instrument :

MSVOA_F

ClientSampleID :

HC-SOIL-3

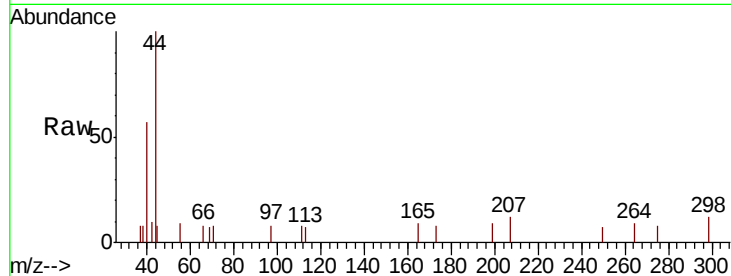
Tot Ion: 69 Resp: 137

Ion Ratio Lower Upper

69 100

41 0.0 59.4 89.2#

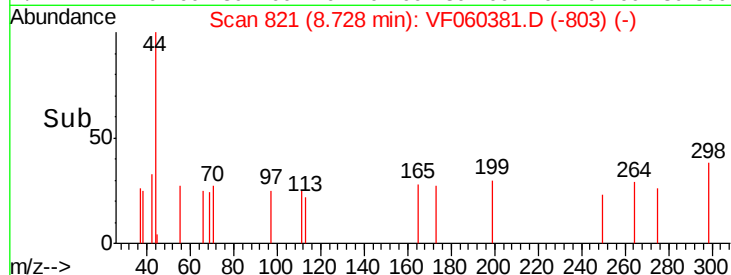
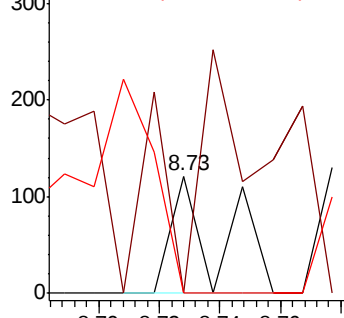
39 0.0 33.5 50.3#



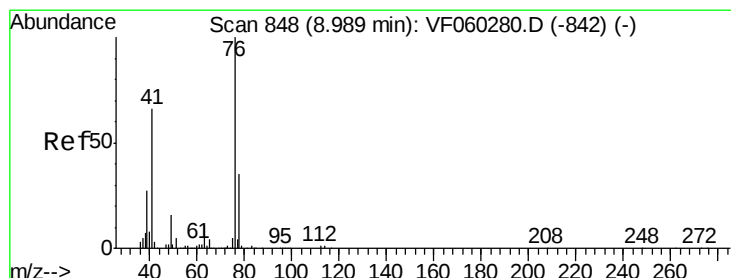
Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



Time-->



#57

1,3-Dichloropropane

Concen: 114.797 ug/l

RT: 8.95 min Scan# 844

Delta R.T. -0.03 min

Lab File: VF060381.D

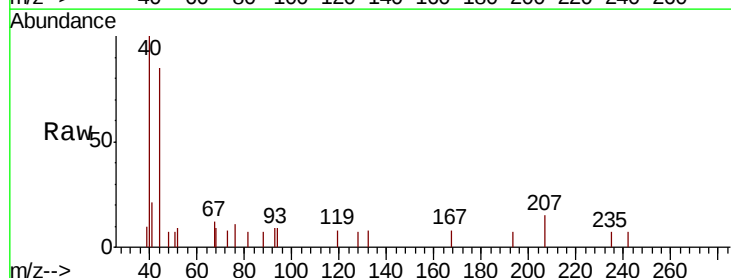
Acq: 28 Sep 2018 21:45

Tgt Ion: 76 Resp: 96

Ion Ratio Lower Upper

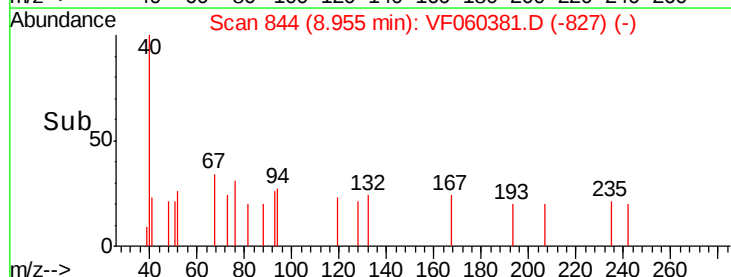
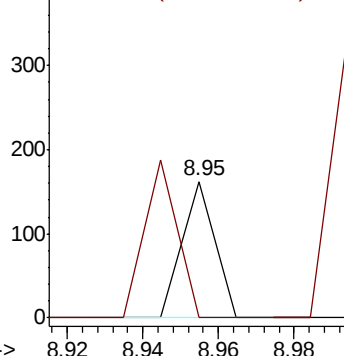
76 100

78 0.0 28.2 42.2#

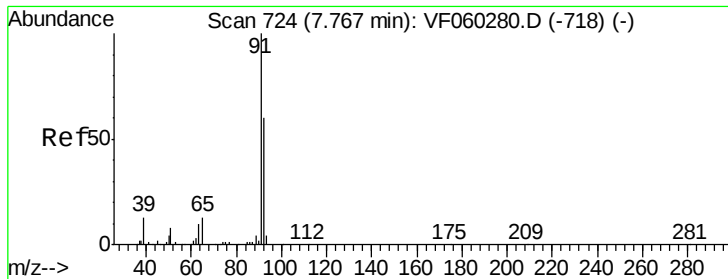


Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 1409.413 ug/l

RT: 7.73 min Scan# 720

Delta R.T. -0.03 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

Instrument :

MSVOA_F

ClientSampled :

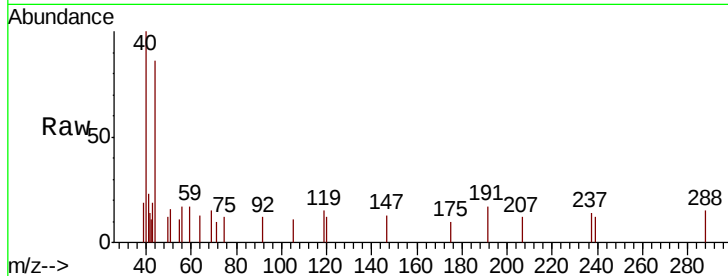
HC-SOIL-3

Tot Ion: 63 Resp: 76

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): VF0

7.73

150

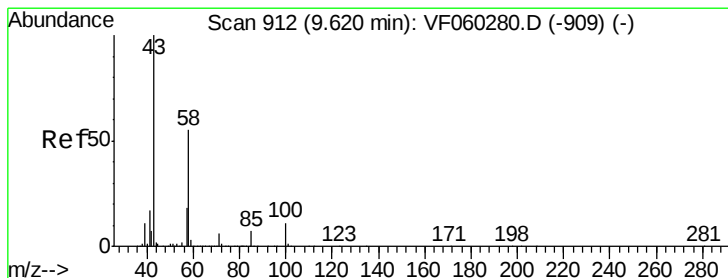
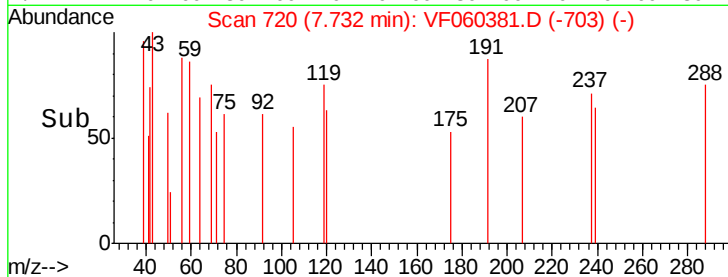
100

50

0

7.70 7.72 7.74 7.76

Time-->



#59

2-Hexanone

Concen: 1239.682 ug/l

RT: 9.52 min Scan# 901

Delta R.T. -0.10 min

Lab File: VF060381.D

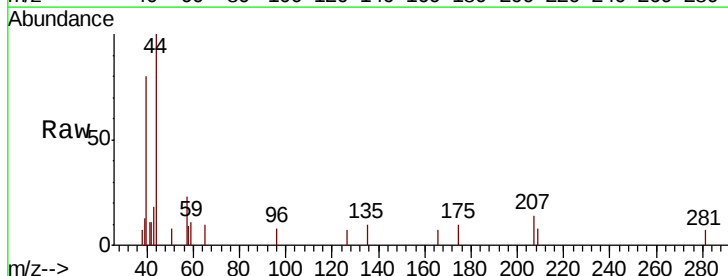
Acq: 28 Sep 2018 21:45

Tgt Ion: 43 Resp: 402

Ion Ratio Lower Upper

43 100

58 47.3 25.9 77.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.52

300

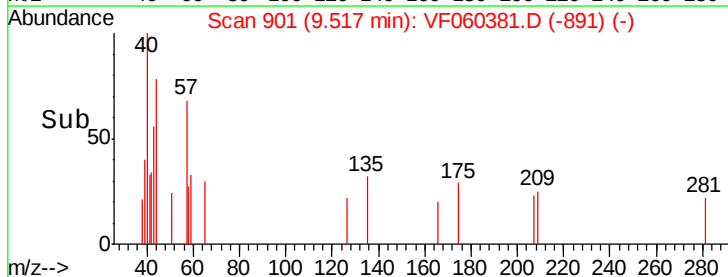
200

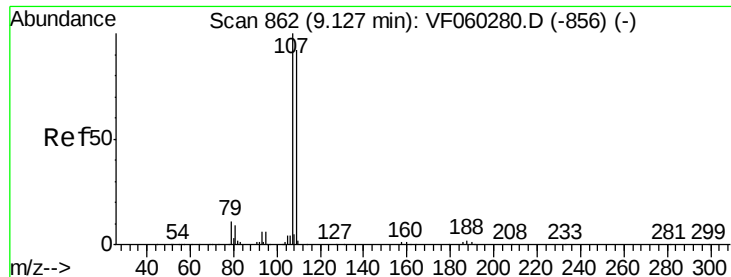
100

0

9.50 9.52 9.54 9.56

Time-->





#61

1,2-Dibromoethane

Concen: 110.239 ug/l

RT: 9.17 min Scan# 866

Delta R.T. 0.04 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

Instrument :

MSVOA_F

ClientSampleId :

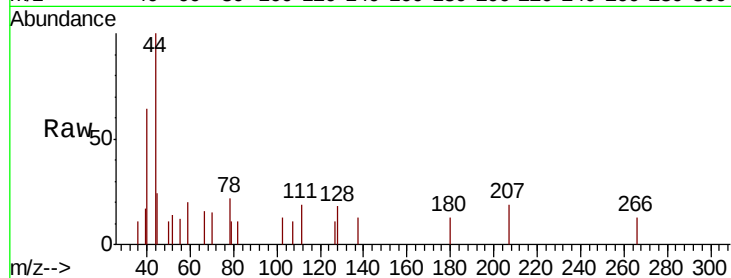
HC-SOIL-3

Tot Ion: 107 Resp: 62

Ion Ratio Lower Upper

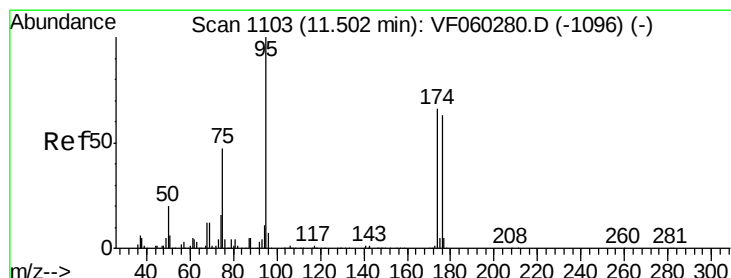
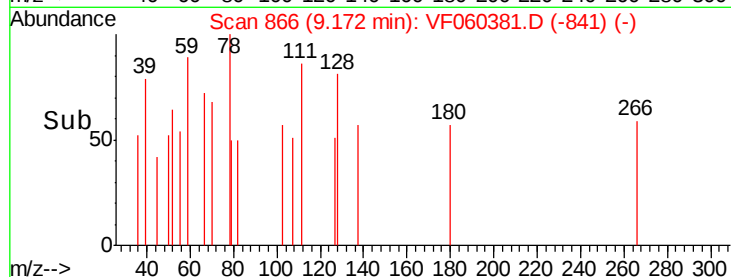
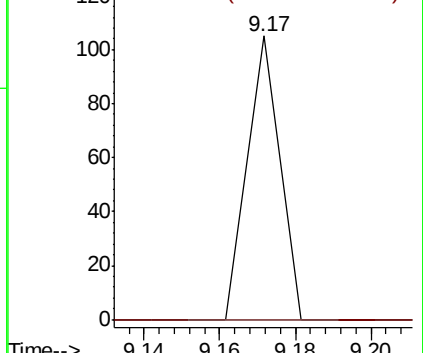
107 100

109 0.0 73.2 109.8#



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 65.363 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.10 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

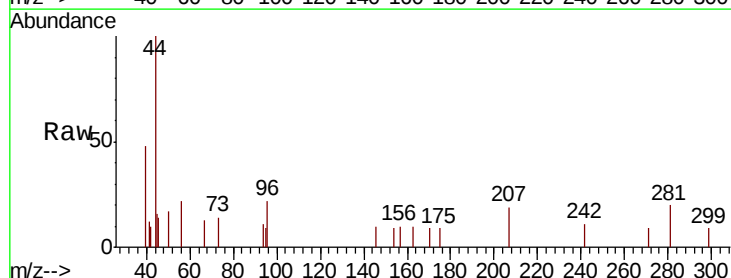
Tgt Ion: 95 Resp: 61

Ion Ratio Lower Upper

95 100

174 0.0 0.0 131.2

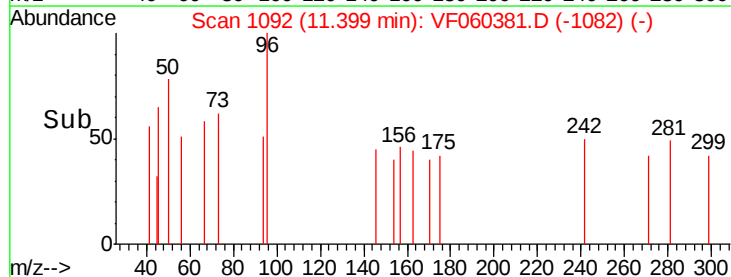
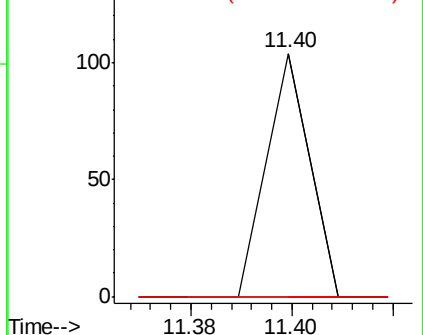
176 0.0 0.0 126.6

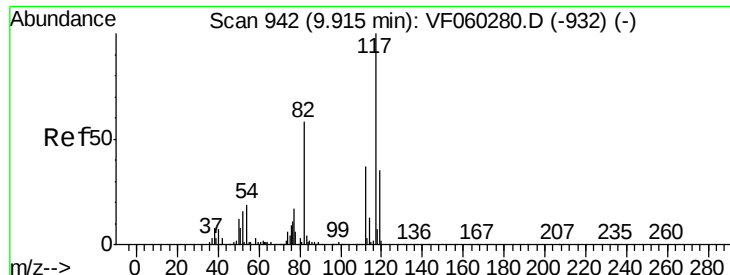


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

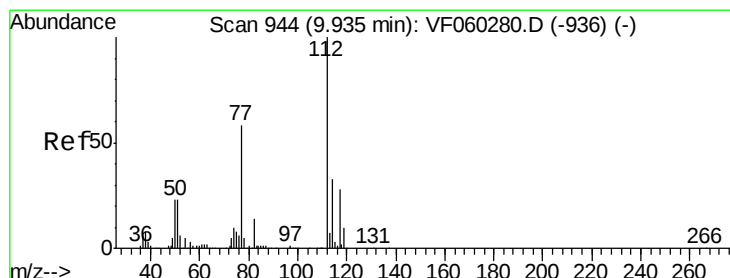
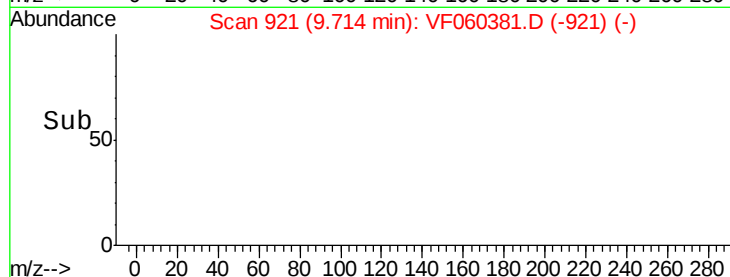
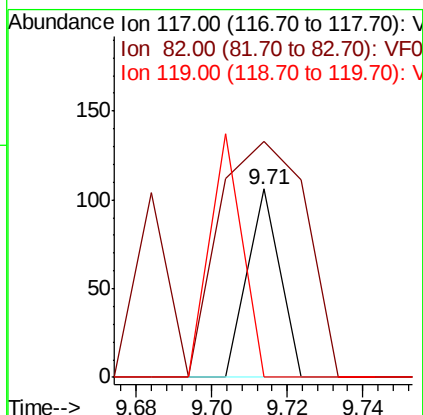
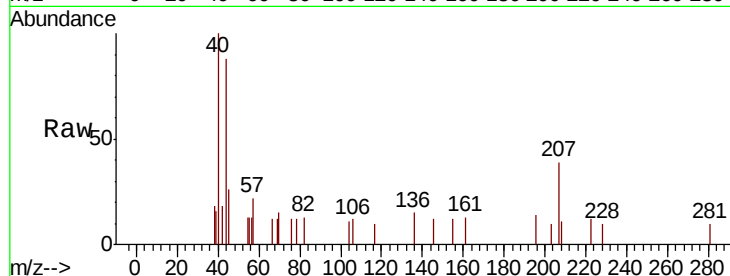




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.71 min Scan# 921
Delta R.T. -0.20 min
Lab File: VF060381.D
Acq: 28 Sep 2018 21:45

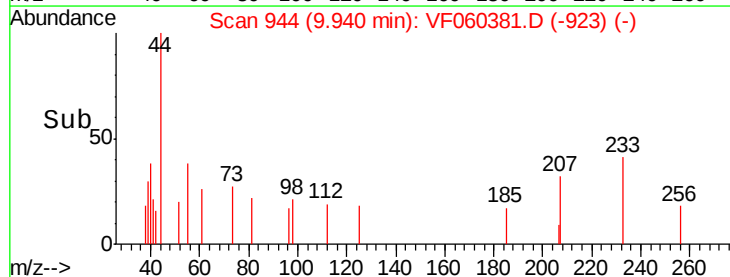
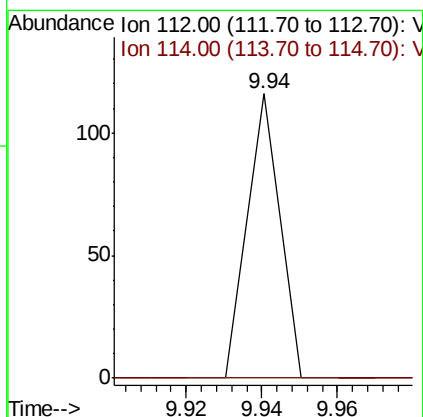
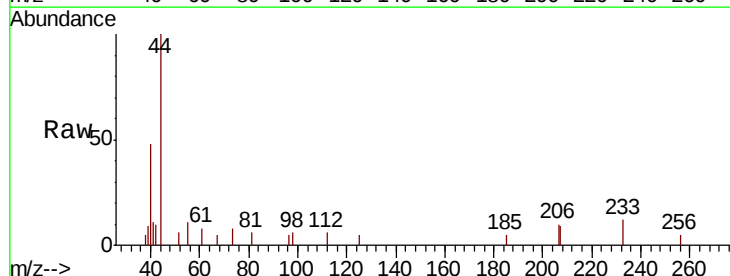
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-3

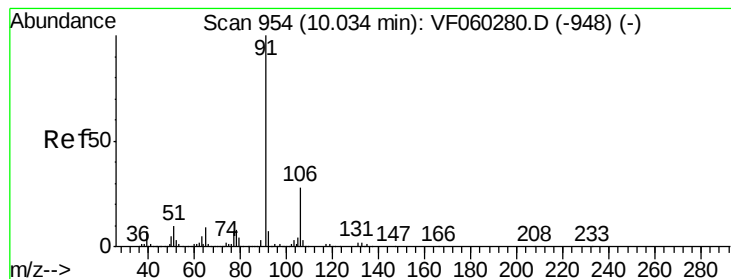
Tot Ion:117 Resp: 63
Ion Ratio Lower Upper
117 100
82 125.5 46.2 69.2#
119 0.0 27.8 41.6#



#65
Chlorobenzene
Concen: 48.324 ug/l
RT: 9.94 min Scan# 944
Delta R.T. 0.01 min
Lab File: VF060381.D
Acq: 28 Sep 2018 21:45

Tgt Ion:112 Resp: 69
Ion Ratio Lower Upper
112 100
114 0.0 26.6 40.0#





#67

Ethyl Benzene

Concen: 25.378 ug/l

RT: 10.05 min Scan# 955

Delta R.T. 0.02 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

Instrument :

MSVOA_F

ClientSampled :

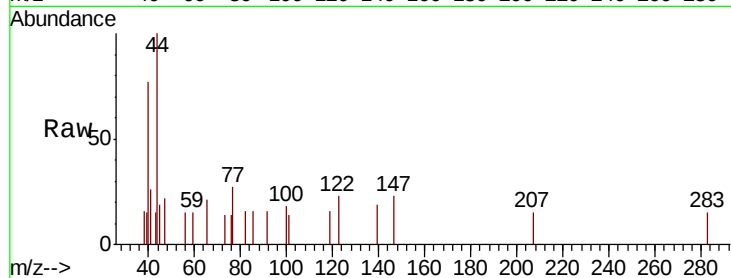
HC-SOIL-3

Tot Ion: 91 Resp: 67

Ion Ratio Lower Upper

91 100

106 0.0 22.7 34.1#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

120

100

80

60

40

20

0

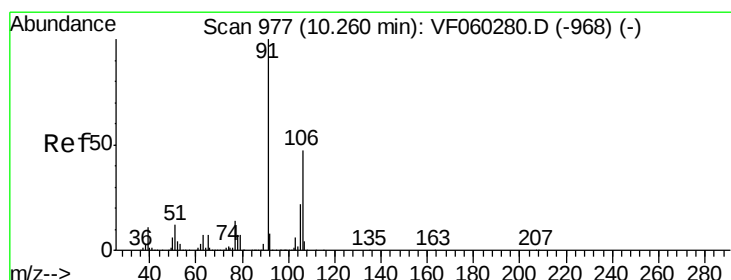
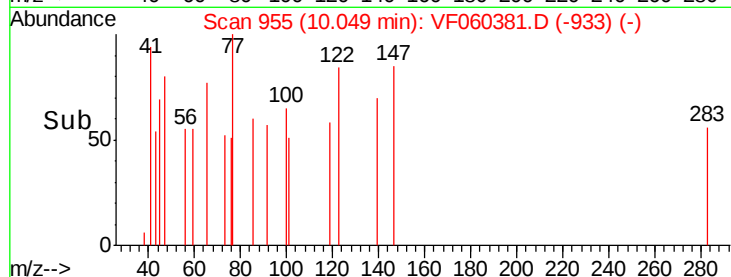
10.02

10.04

10.05

10.06

Time-->



#68

m/p-Xylenes

Concen: 129.372 ug/l

RT: 10.20 min Scan# 970

Delta R.T. -0.06 min

Lab File: VF060381.D

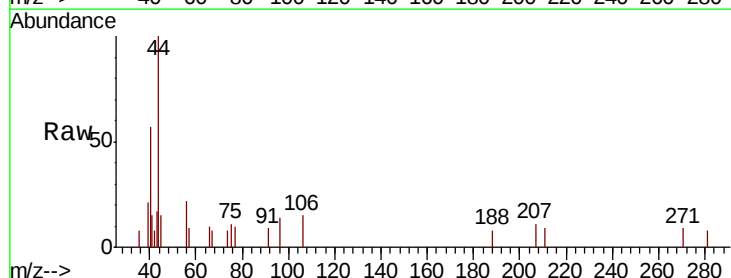
Acq: 28 Sep 2018 21:45

Tgt Ion: 106 Resp: 118

Ion Ratio Lower Upper

106 100

91 61.3 172.3 258.5#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

300

250

200

150

100

50

0

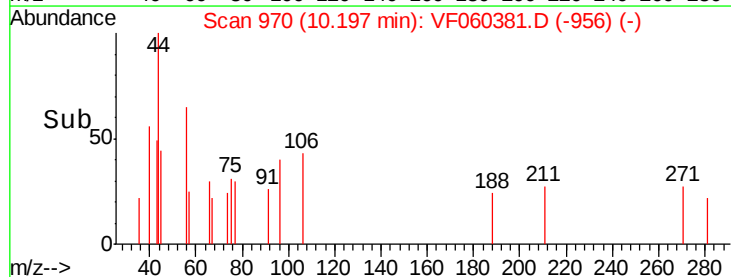
10.16

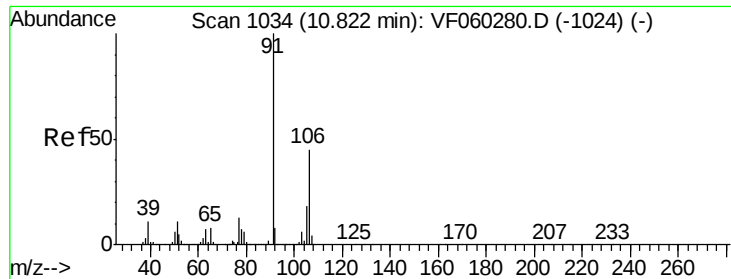
10.18

10.20

10.22

Time-->

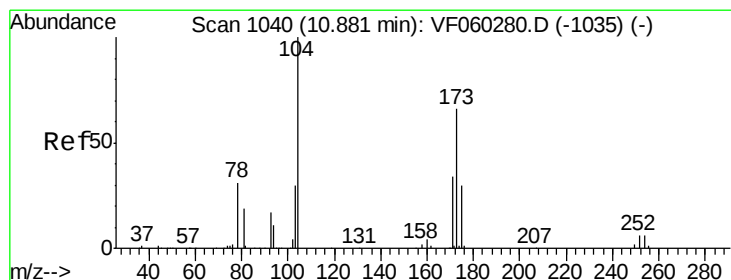
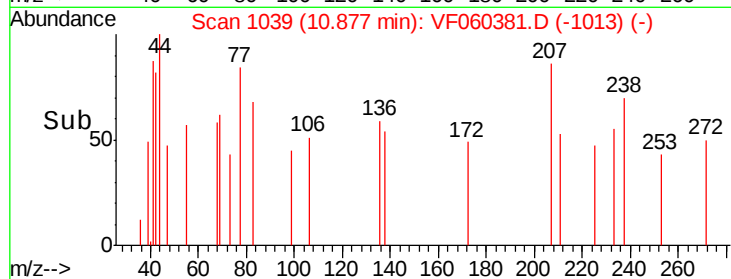
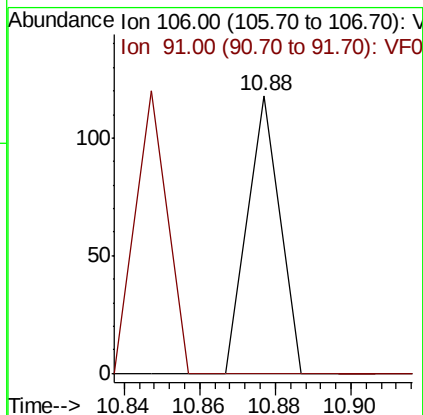
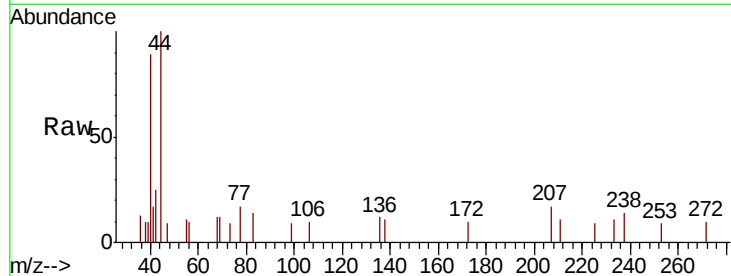




#69
o-Xylene
Concen: 68.423 ug/l
RT: 10.88 min Scan# 1039
Delta R.T. 0.05 min
Lab File: VF060381.D
Acq: 28 Sep 2018 21:45

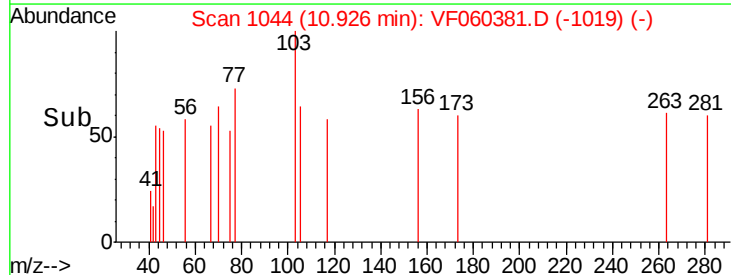
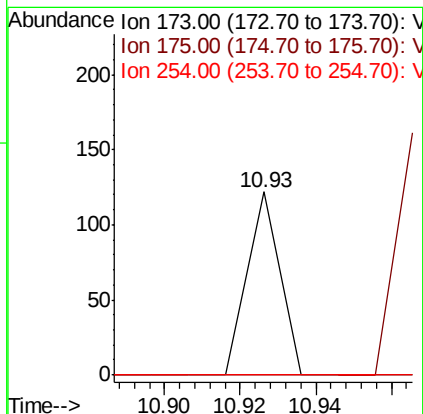
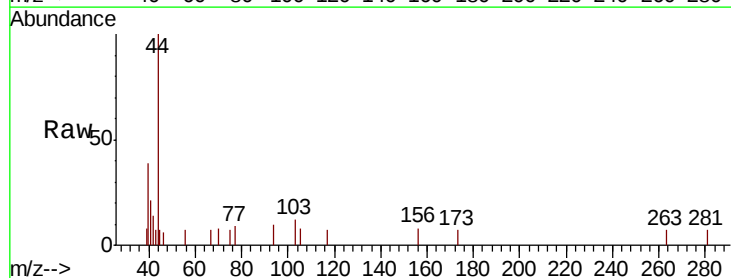
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-3

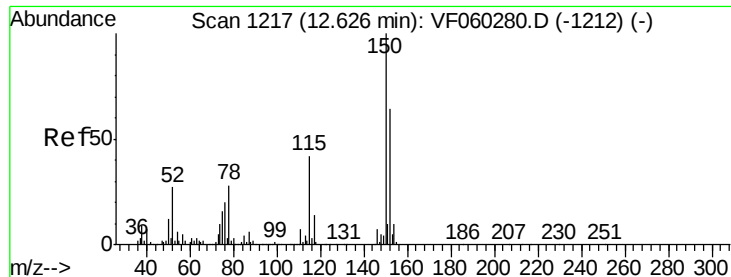
Tot Ion:106 Resp: 70
Ion Ratio Lower Upper
106 100
91 0.0 110.9 332.6#



#71
Bromoform
Concen: 221.244 ug/l
RT: 10.93 min Scan# 1044
Delta R.T. 0.04 min
Lab File: VF060381.D
Acq: 28 Sep 2018 21:45

Tgt Ion:173 Resp: 72
Ion Ratio Lower Upper
173 100
175 0.0 22.3 66.9#
254 0.0 0.0 0.0



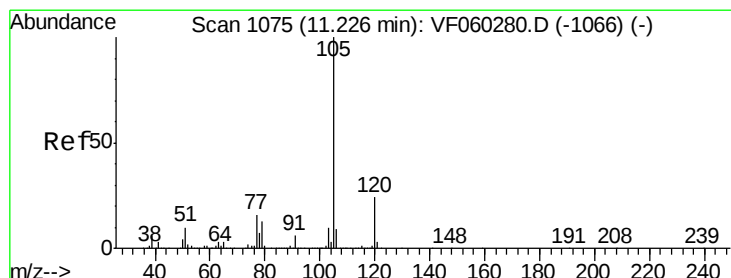
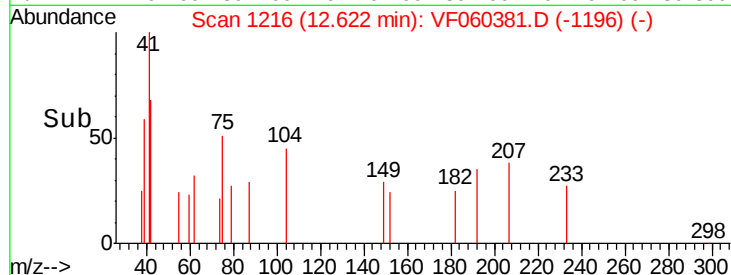
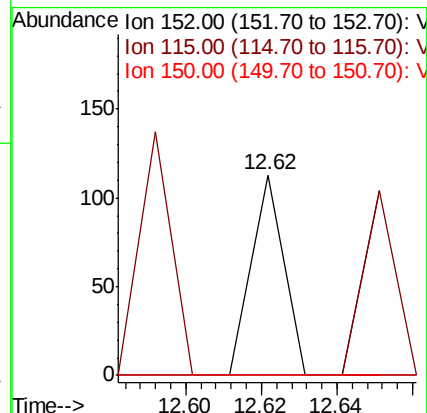
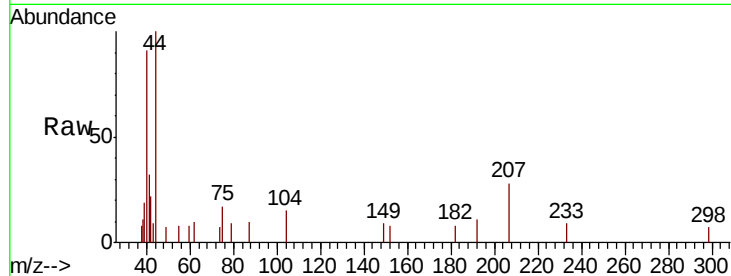


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1216
Delta R.T. -0.00 min
Lab File: VF060381.D
Acq: 28 Sep 2018 21:45

Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-3

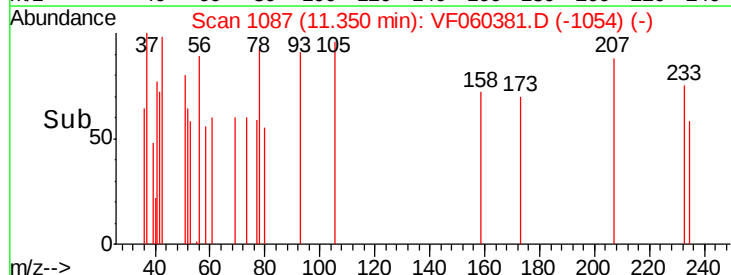
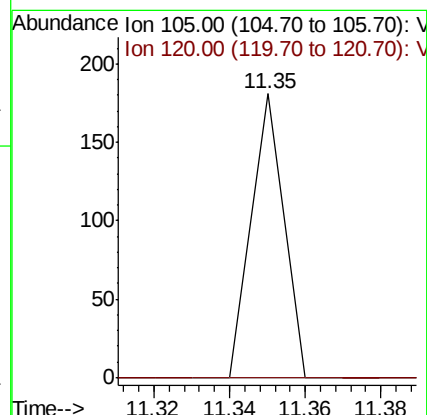
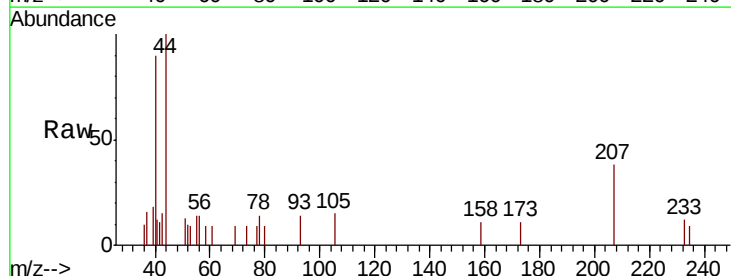
Tot Ion	Ratio	Lower	Upper
152	100		
115	0.0	32.6	97.8#
150	0.0	0.0	314.2

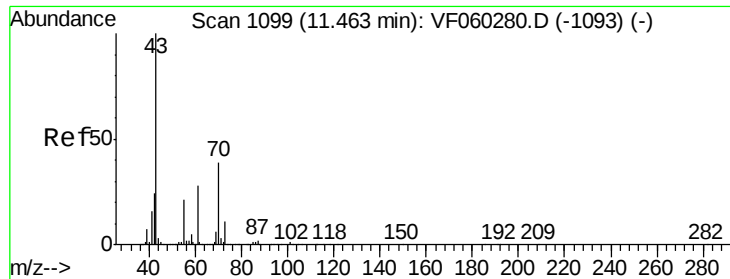


#73

Isopropylbenzene
Concen: 17.790 ug/l
RT: 11.35 min Scan# 1087
Delta R.T. 0.12 min
Lab File: VF060381.D
Acq: 28 Sep 2018 21:45

Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	12.2	36.6#





#74

N-amvl acetate

Concen: 600.334 ug/l

RT: 11.46 min Scan# 1098

Delta R.T. -0.00 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-3

Tot Ion: 43 Resp: 770

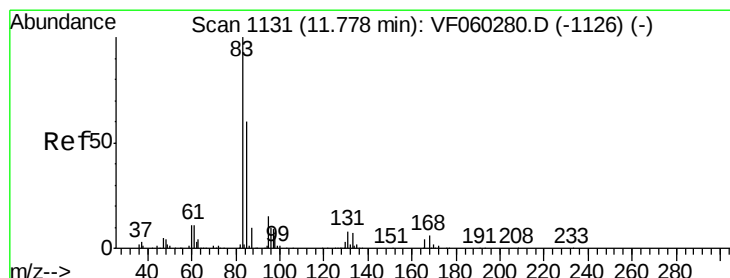
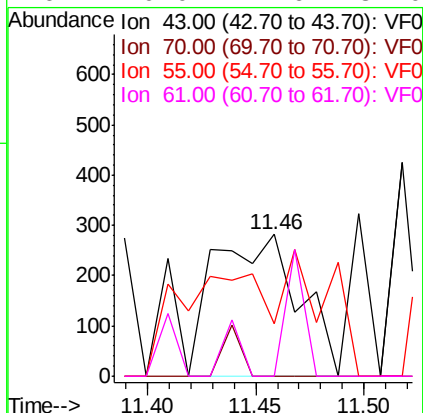
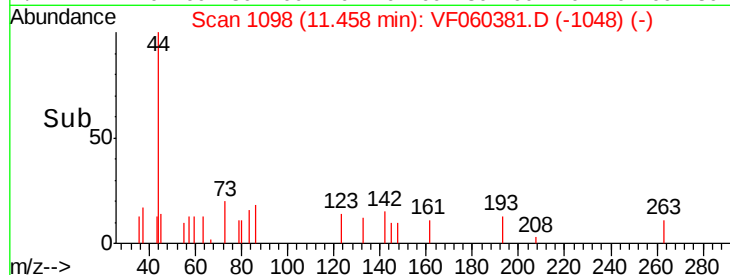
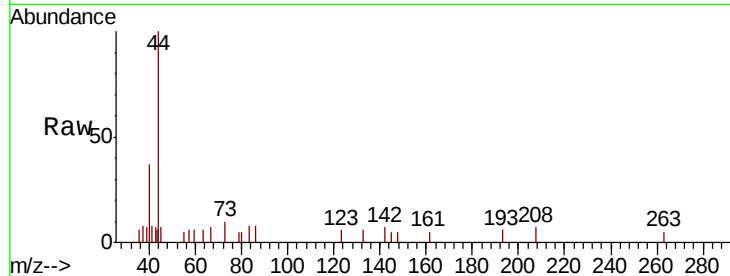
Ion Ratio Lower Upper

43 100

70 0.0 31.4 47.2#

55 37.2 16.8 25.2#

61 0.0 22.6 34.0#



#75

1,1,2,2-Tetrachloroethane

Concen: 121.019 ug/l

RT: 11.76 min Scan# 1129

Delta R.T. -0.01 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

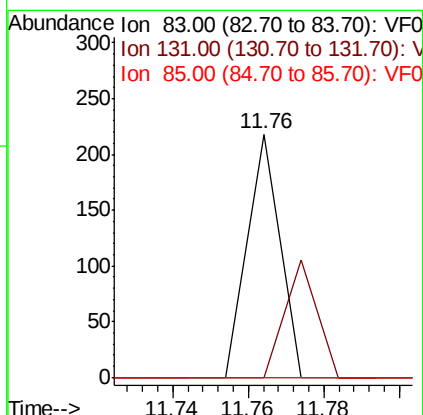
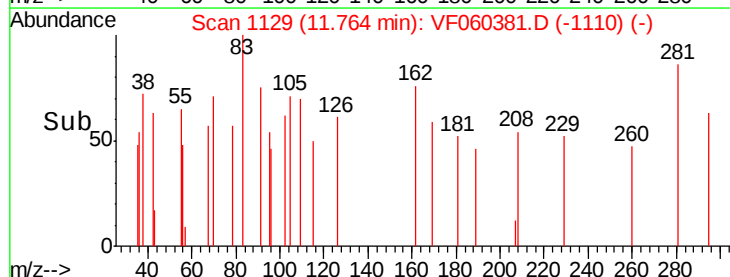
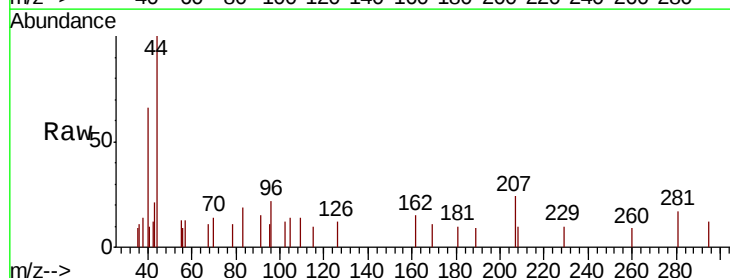
Tgt Ion: 83 Resp: 129

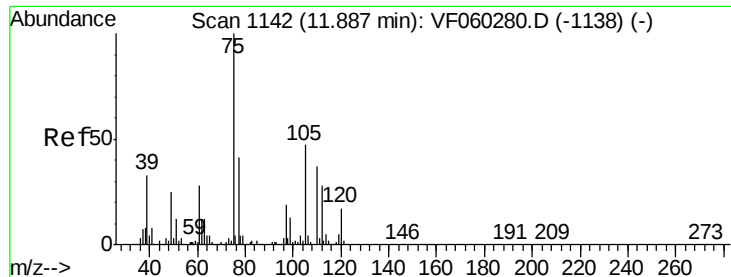
Ion Ratio Lower Upper

83 100

131 0.0 4.2 12.4#

85 0.0 30.1 90.5#





#76

1,2,3-Trichloropropane

Concen: 77.303 ug/l

RT: 11.85 min Scan# 1138

Delta R.T. -0.03 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

Instrument :

MSVOA_F

ClientSampleId :

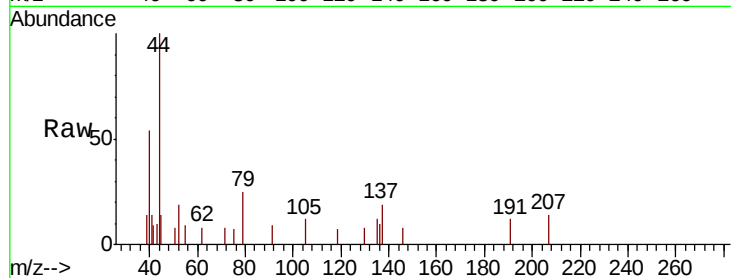
HC-SOIL-3

Tot Ion: 75 Resp: 59

Ion Ratio Lower Upper

75 100

77 0.0 20.5 61.5#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

150

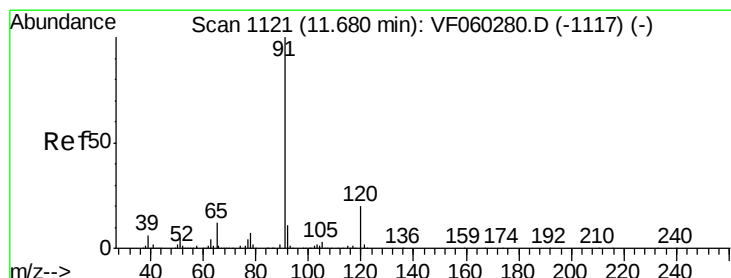
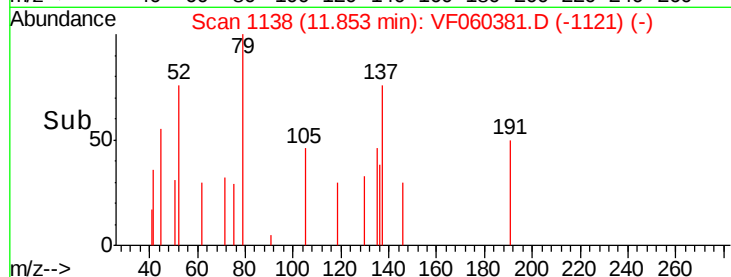
100

50

0

11.82 11.84 11.86 11.88

Time-->



#78

n-propylbenzene

Concen: 34.330 ug/l

RT: 11.66 min Scan# 1118

Delta R.T. -0.02 min

Lab File: VF060381.D

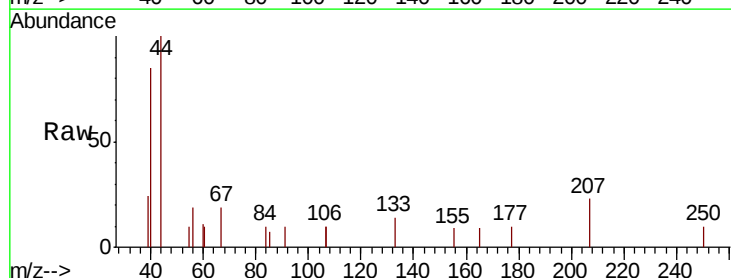
Acq: 28 Sep 2018 21:45

Tgt Ion: 91 Resp: 219

Ion Ratio Lower Upper

91 100

120 0.0 10.0 29.8#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

150

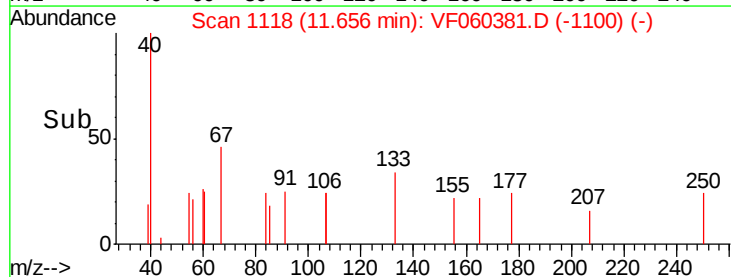
100

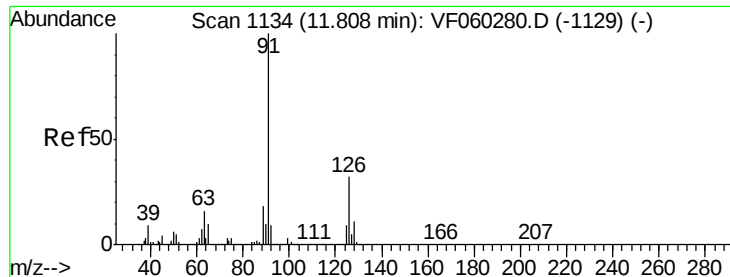
50

0

11.65 11.66 11.67 11.68

Time-->





#79

2-Chlorotoluene

Concen: 17.992 ug/l

RT: 11.80 min Scan# 1133

Delta R.T. -0.00 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

Instrument :

MSVOA_F

ClientSampleId :

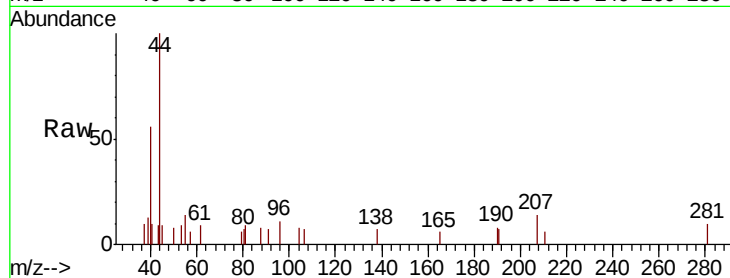
HC-SOIL-3

Tot Ion: 91 Resp: 73

Ion Ratio Lower Upper

91 100

126 0.0 16.1 48.3#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

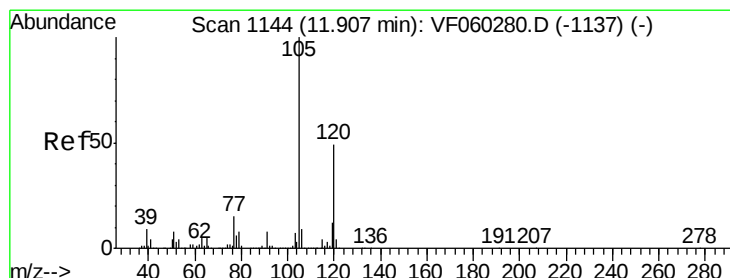
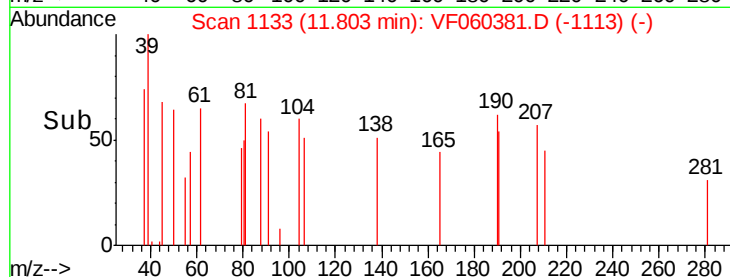
11.80

100

50

0

Time--> 11.78 11.80 11.82



#80

1,3,5-Trimethylbenzene

Concen: 15.077 ug/l

RT: 11.92 min Scan# 1145

Delta R.T. 0.02 min

Lab File: VF060381.D

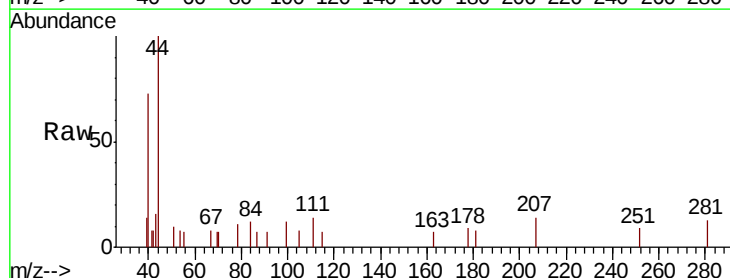
Acq: 28 Sep 2018 21:45

Tgt Ion: 105 Resp: 73

Ion Ratio Lower Upper

105 100

120 0.0 24.4 73.2#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

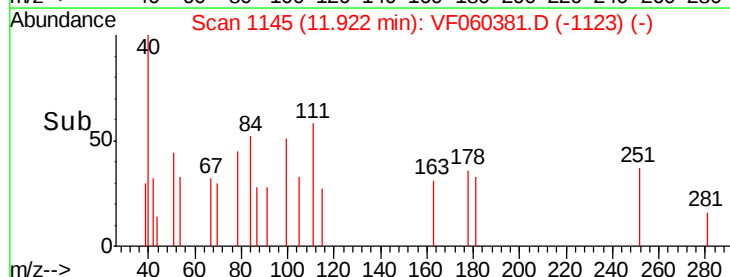
11.92

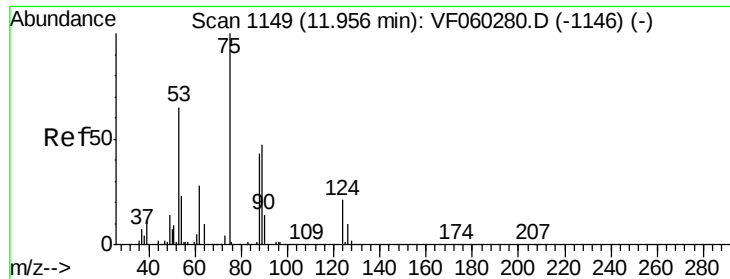
100

50

0

Time--> 11.90 11.92 11.94





#81

trans-1,4-Dichloro-2-butene

Concen: 247.924 ug/l

RT: 11.95 min Scan# 1148

Delta R.T. -0.00 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-3

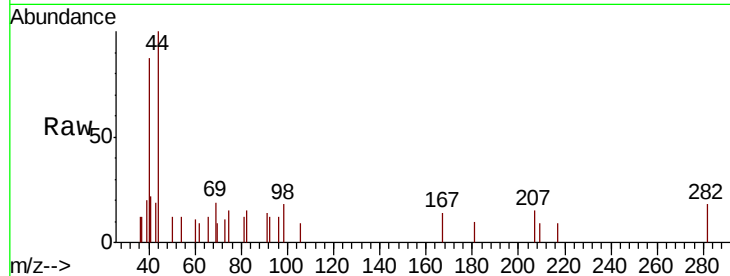
Tot Ion: 75 Resp: 100

Ion Ratio Lower Upper

75 100

53 0.0 56.5 84.7#

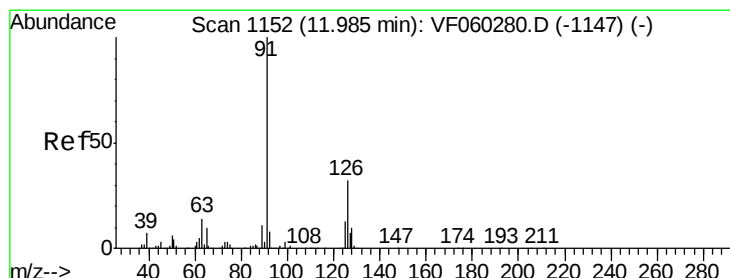
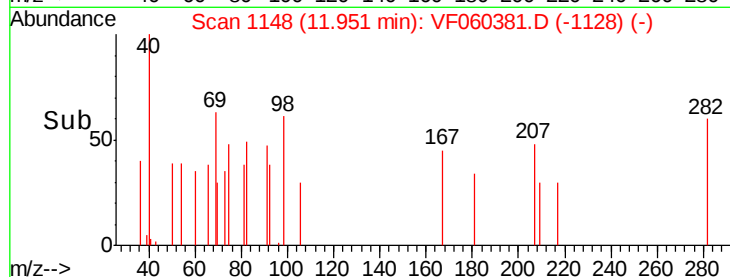
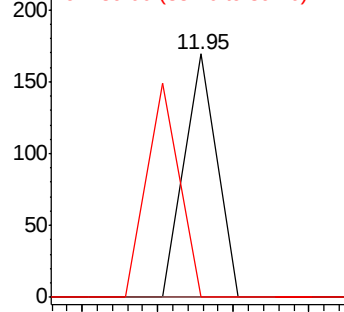
89 0.0 40.6 60.8#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 24.031 ug/l

RT: 11.95 min Scan# 1148

Delta R.T. -0.03 min

Lab File: VF060381.D

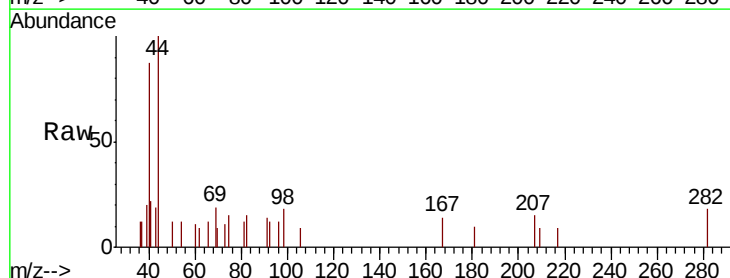
Acq: 28 Sep 2018 21:45

Tgt Ion: 91 Resp: 98

Ion Ratio Lower Upper

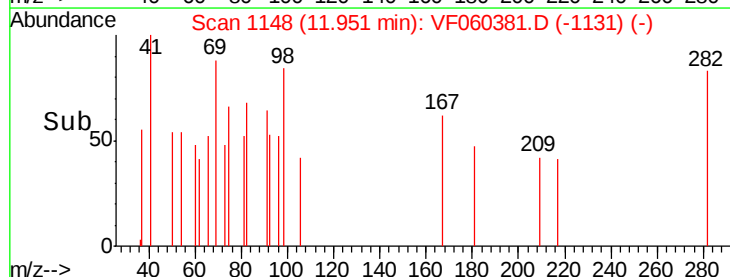
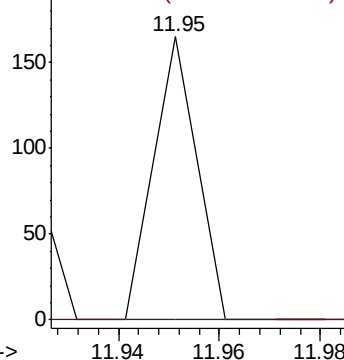
91 100

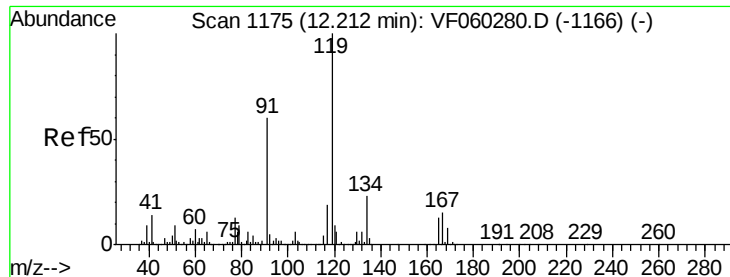
126 0.0 16.1 48.2#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#83

tert-Butylbenzene

Concen: 13.040 ug/l

RT: 12.20 min Scan# 1173

Delta R.T. -0.01 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

Instrument :

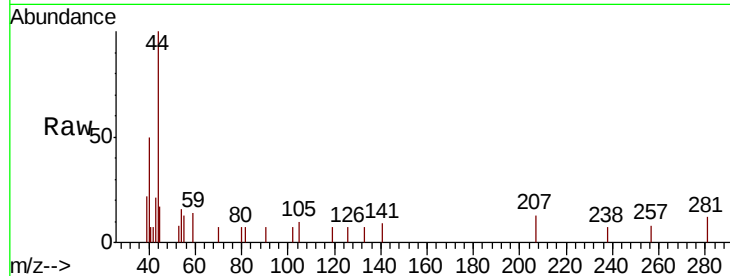
MSVOA_F

ClientSampleID :

HC-SOIL-3

Tot Ion:119 Resp: 64

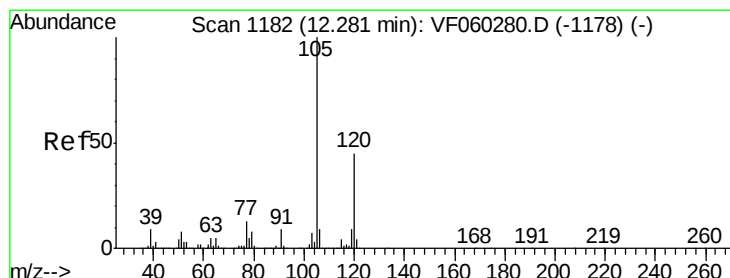
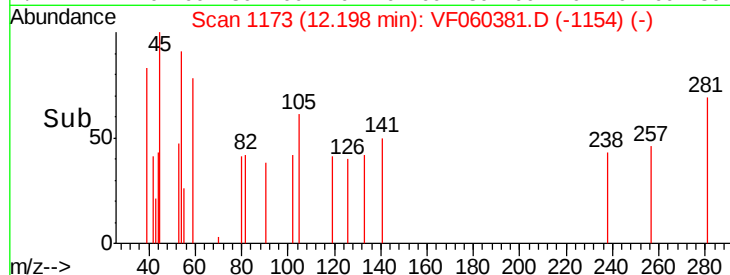
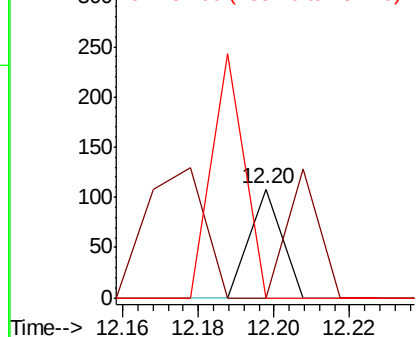
Ion	Ratio	Lower	Upper
119	100		
91	0.0	30.3	91.0#
134	0.0	11.6	34.8#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 12.001 ug/l

RT: 12.26 min Scan# 1179

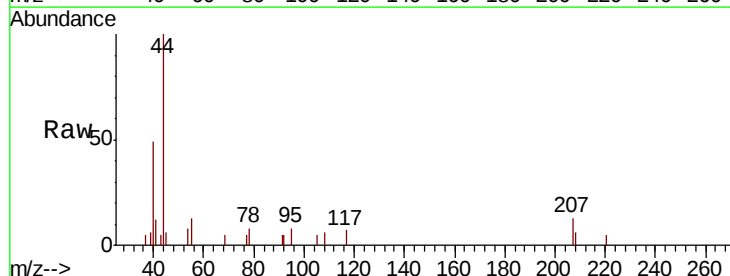
Delta R.T. -0.02 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

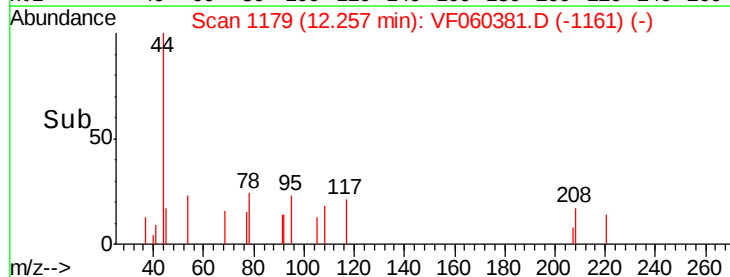
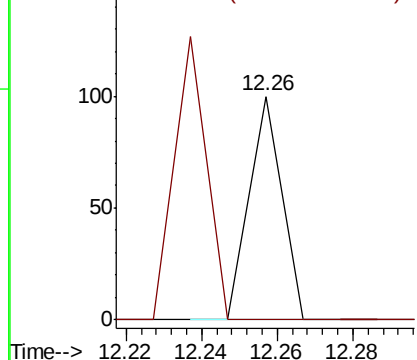
Tgt Ion:105 Resp: 59

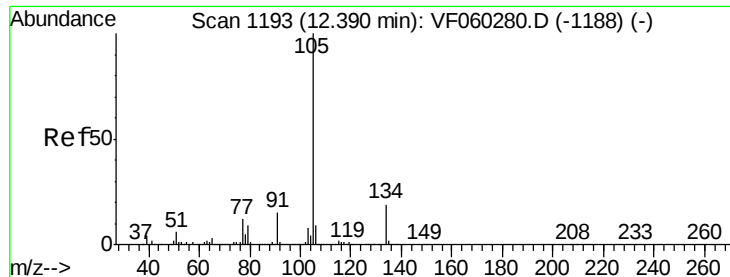
Ion	Ratio	Lower	Upper
105	100		
120	0.0	22.4	67.0#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 11.604 ug/l

RT: 12.37 min Scan# 1190

Delta R.T. -0.02 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

Instrument :

MSVOA_F

ClientSampled :

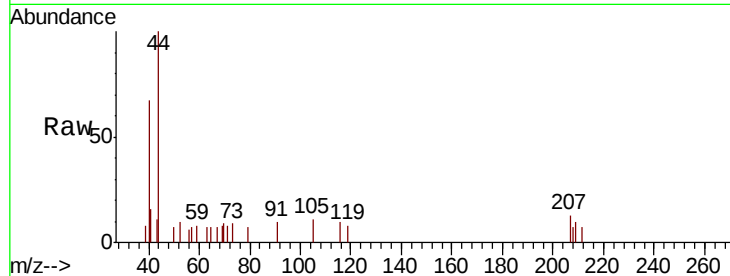
HC-SOIL-3

Tot Ion:105 Resp: 103

Ion Ratio Lower Upper

105 100

134 0.0 9.6 28.6#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12.37

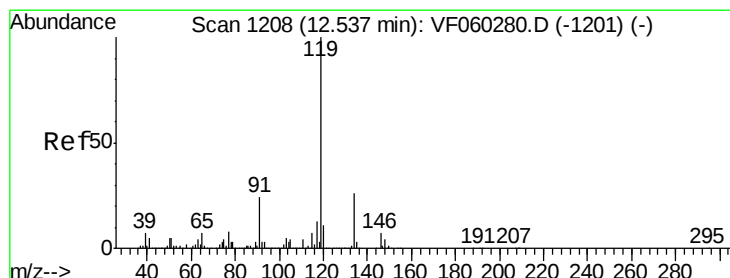
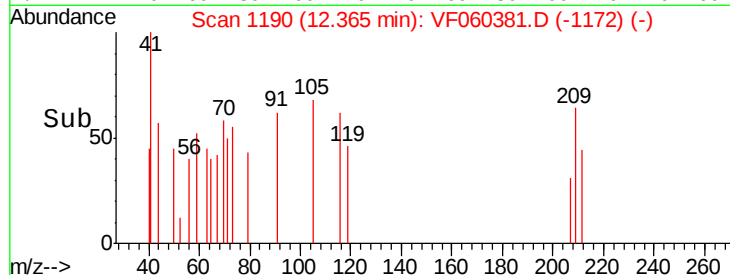
150

100

50

0

Time-->



#86

p-Isopropyltoluene

Concen: 25.196 ug/l

RT: 12.60 min Scan# 1214

Delta R.T. 0.06 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

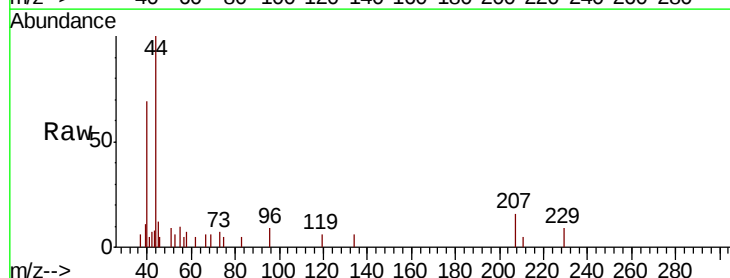
Tgt Ion:119 Resp: 133

Ion Ratio Lower Upper

119 100

134 107.0 12.9 38.7#

91 0.0 11.9 35.7#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

200

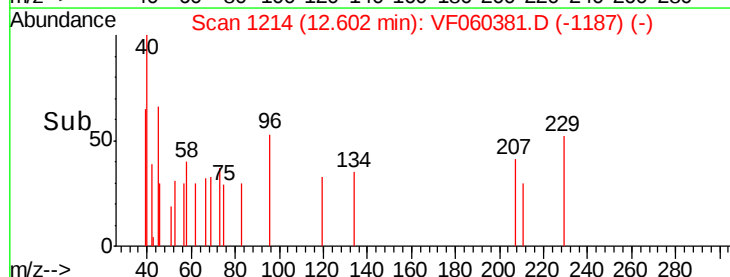
150

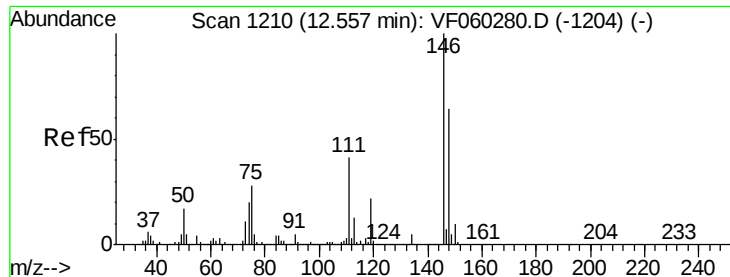
100

50

0

Time-->





#87

1,3-Dichlorobenzene

Concen: 29.312 ug/l

RT: 12.67 min Scan# 1221

Delta R.T. 0.11 min

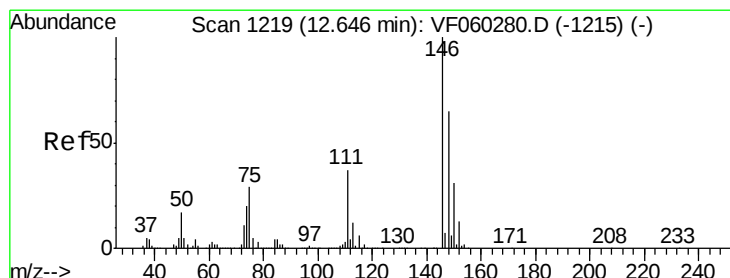
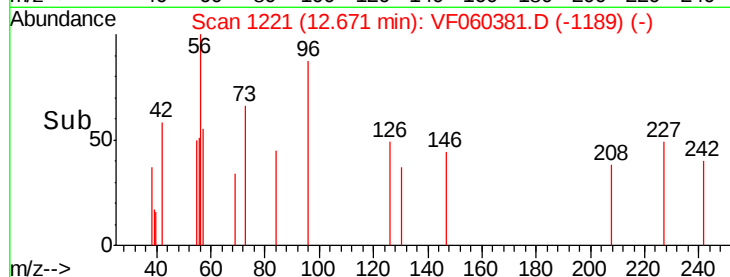
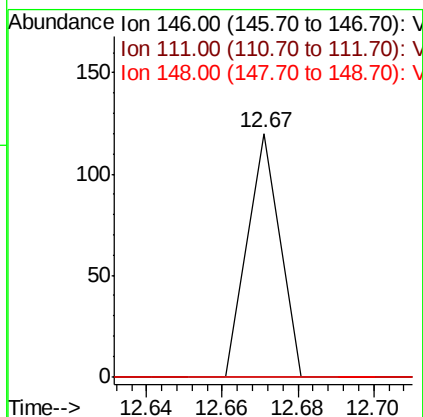
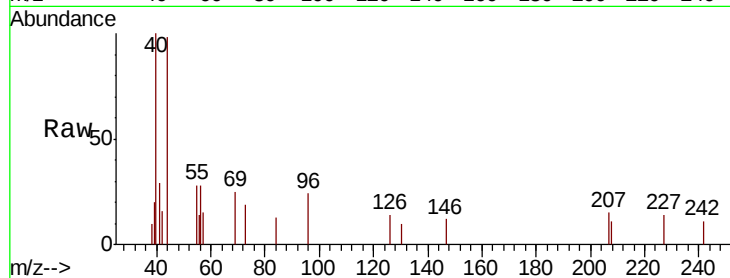
Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-3

Tot Ion:146 Resp: 71

Ion	Ratio	Lower	Upper
146	100		
111	0.0	20.5	61.6#
148	0.0	32.2	96.6#



#88

1,4-Dichlorobenzene

Concen: 29.656 ug/l

RT: 12.67 min Scan# 1221

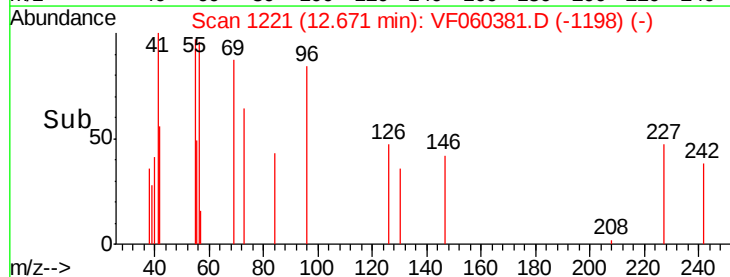
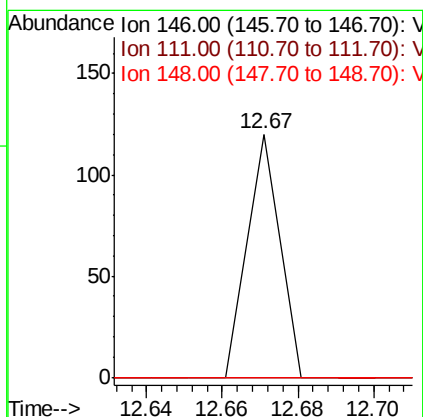
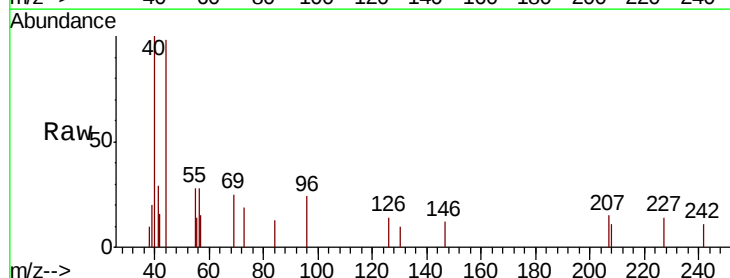
Delta R.T. 0.02 min

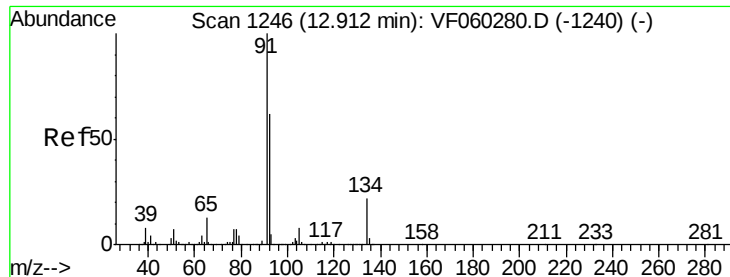
Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

Tgt Ion:146 Resp: 71

Ion	Ratio	Lower	Upper
146	100		
111	0.0	18.7	56.1#
148	0.0	32.4	97.0#





#89

n-Butylbenzene

Concen: 14.008 ug/l

RT: 12.96 min Scan# 1250

Delta R.T. 0.04 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

Instrument :

MSVOA_F

ClientSampled :

HC-SOIL-3

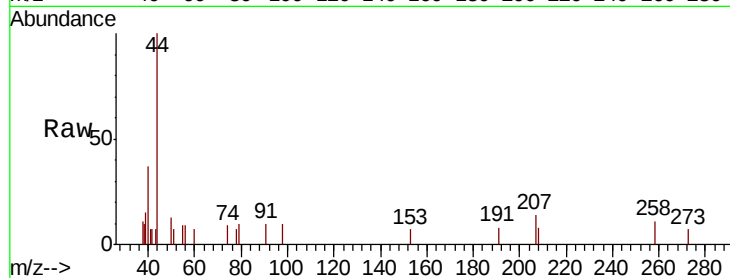
Tot Ion: 91 Resp: 92

Ion Ratio Lower Upper

91 100

92 0.0 31.1 93.5#

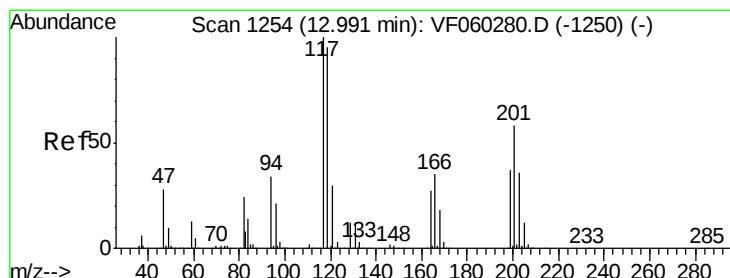
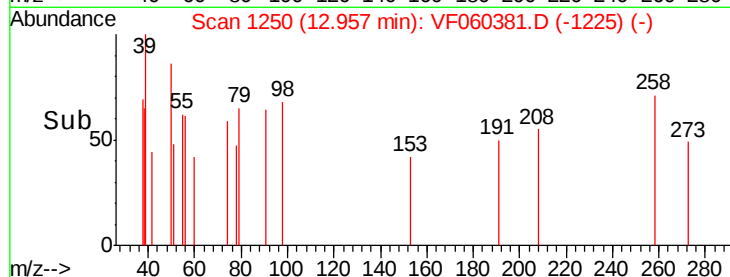
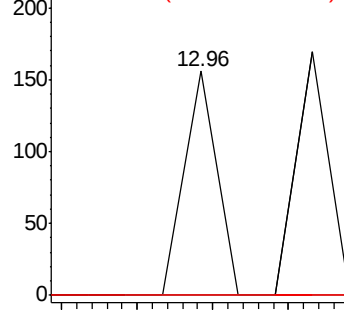
134 0.0 11.0 33.0#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 65.530 ug/l

RT: 13.04 min Scan# 1258

Delta R.T. 0.04 min

Lab File: VF060381.D

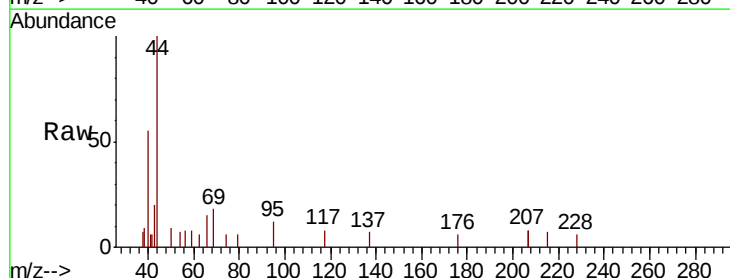
Acq: 28 Sep 2018 21:45

Tgt Ion: 117 Resp: 90

Ion Ratio Lower Upper

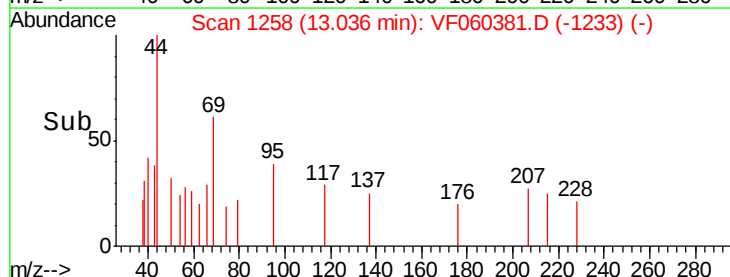
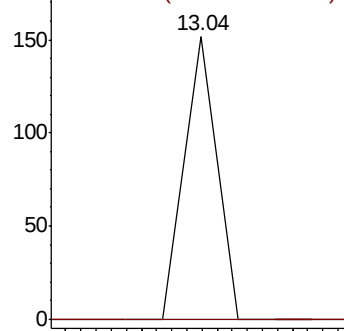
117 100

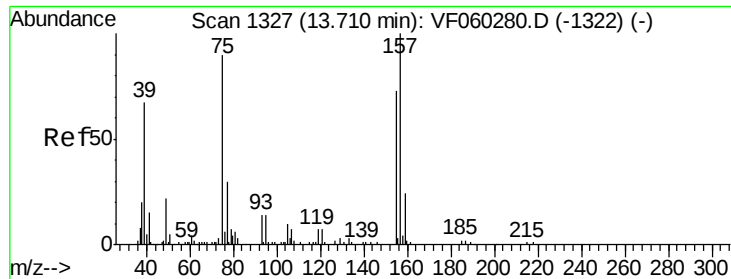
201 0.0 29.0 87.0#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

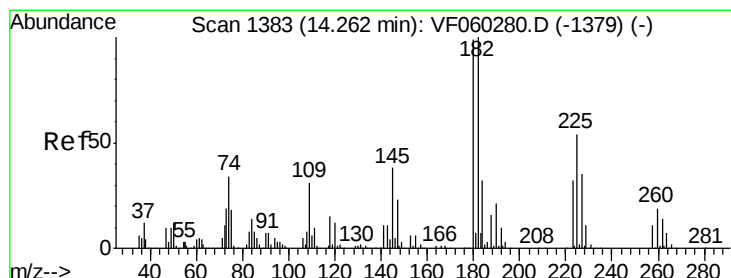
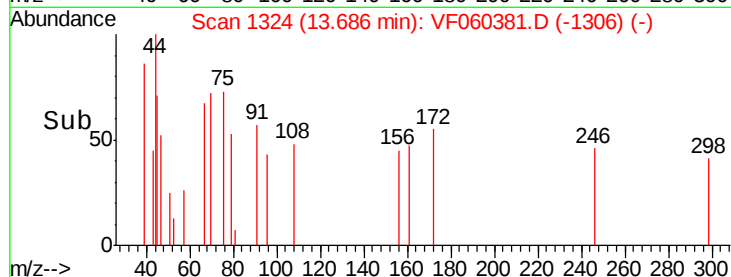
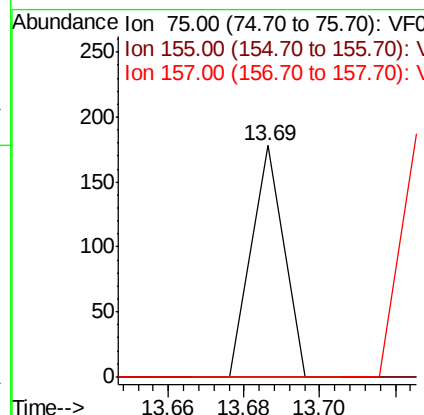
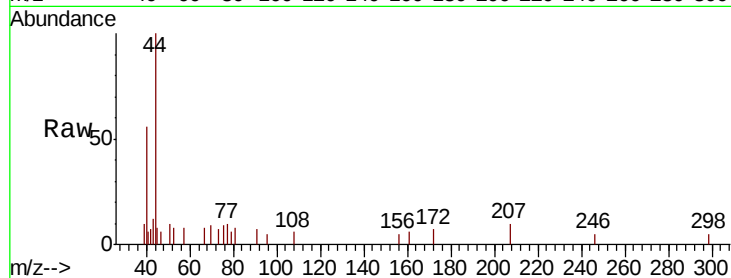




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 524.648 ug/l
 RT: 13.69 min Scan# 1324
 Delta R.T. -0.02 min
 Lab File: VF060381.D
 Acq: 28 Sep 2018 21:45

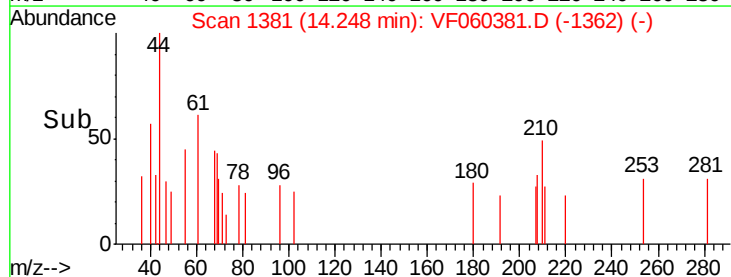
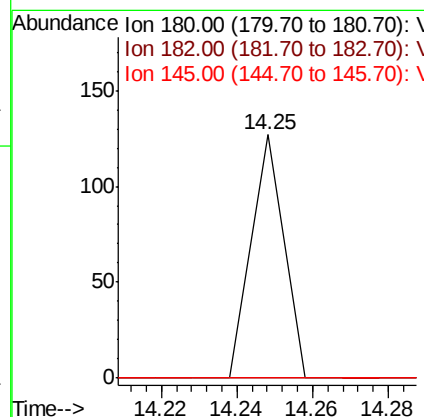
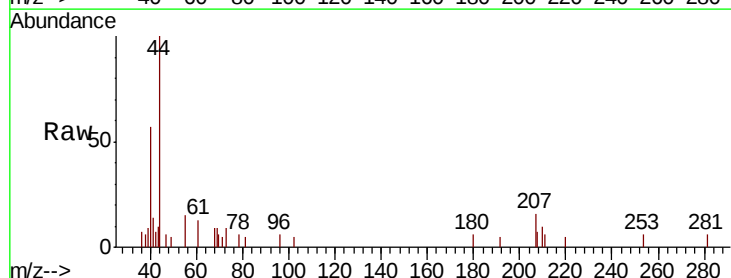
Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-3

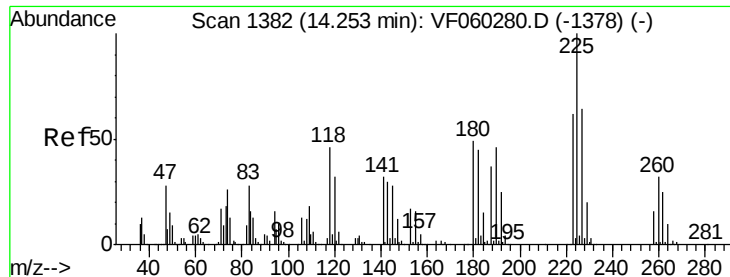
Tot Ion: 75 Resp: 105
 Ion Ratio Lower Upper
 75 100
 155 0.0 41.9 125.7#
 157 0.0 57.4 172.0#



#93
 1,2,4-Trichlorobenzene
 Concen: 44.657 ug/l
 RT: 14.25 min Scan# 1381
 Delta R.T. -0.01 min
 Lab File: VF060381.D
 Acq: 28 Sep 2018 21:45

Tgt Ion: 180 Resp: 75
 Ion Ratio Lower Upper
 180 100
 182 0.0 50.3 151.0#
 145 0.0 18.9 56.9#





#94

Hexachlorobutadiene

Concen: 115.384 ug/l

RT: 14.09 min Scan# 1365

Delta R.T. -0.16 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

Instrument :

MSVOA_F

ClientSampled :

HC-SOIL-3

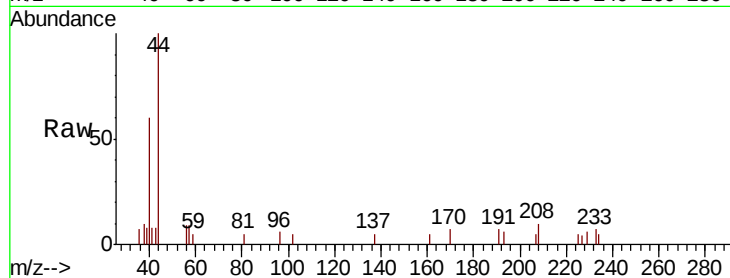
Tot Ion:225 Resp: 131

Ion Ratio Lower Upper

225 100

223 0.0 31.2 93.6#

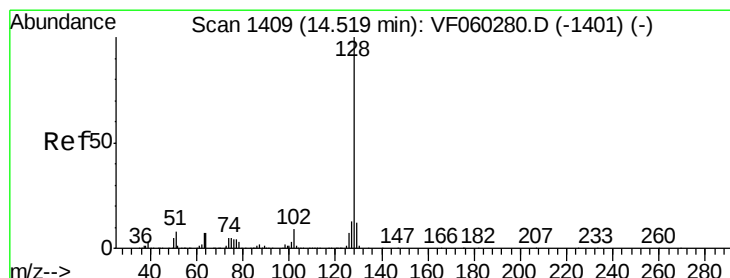
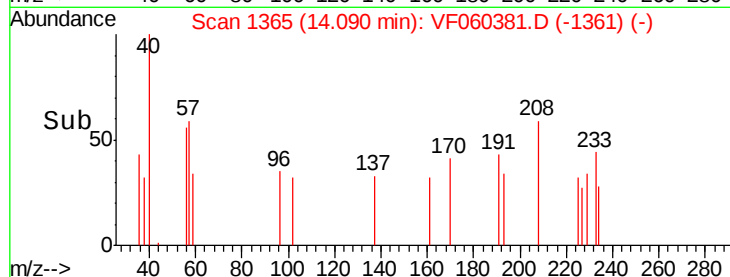
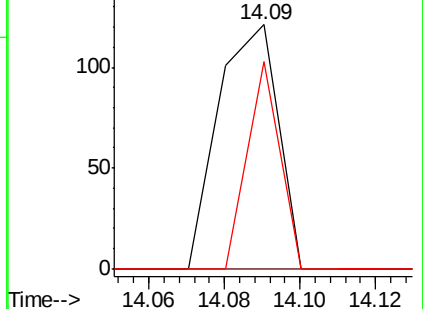
227 85.1 32.2 96.6



Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V



#95

Naphthalene

Concen: 25.471 ug/l

RT: 14.53 min Scan# 1410

Delta R.T. 0.02 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

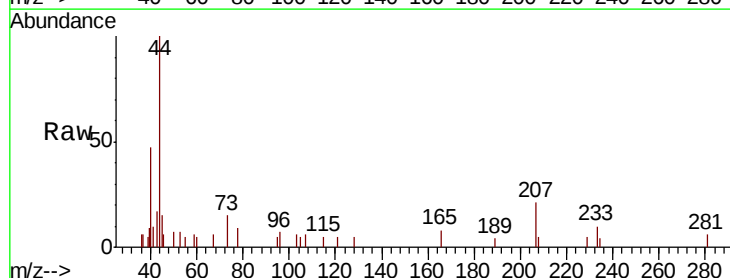
Tgt Ion:128 Resp: 75

Ion Ratio Lower Upper

128 100

127 0.0 10.1 15.1#

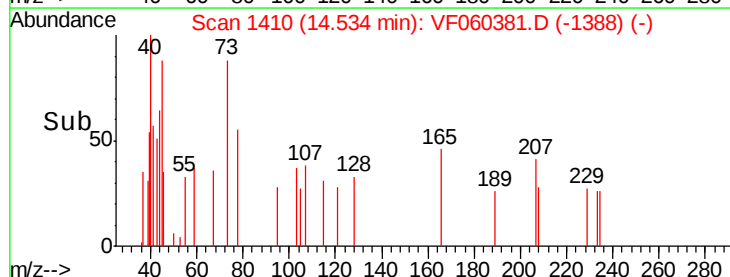
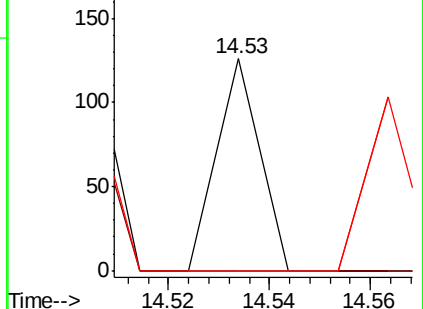
129 0.0 9.8 14.8#

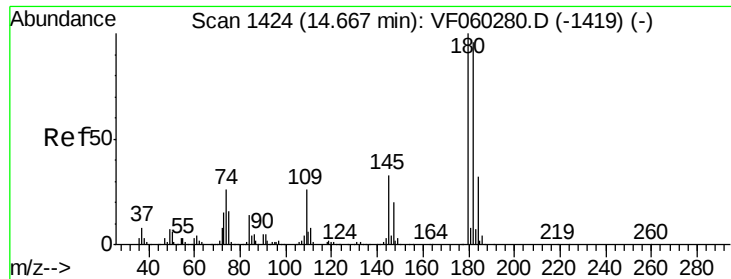


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 47.040 ug/l

RT: 14.72 min Scan# 1429

Delta R.T. 0.05 min

Lab File: VF060381.D

Acq: 28 Sep 2018 21:45

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-3

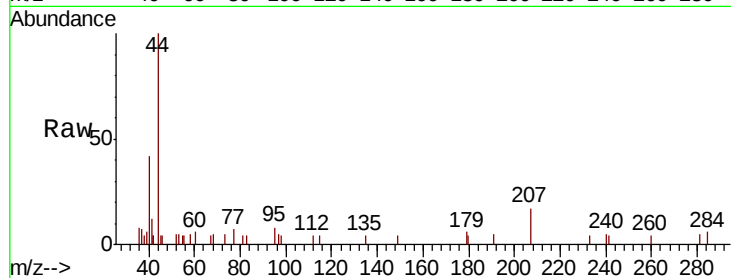
Tot Ion:180 Resp: 73

Ion Ratio Lower Upper

180 100

182 0.0 47.8 143.4#

145 0.0 16.4 49.1#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

