

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092018\
 Data File : VF060305.D
 Acq On : 20 Sep 2018 18:53
 Operator : VA/AP
 Sample : J5021-17
 Misc : 6.88/5mL/MSVOA F/SOIL
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 LS-SOIL-E

Quant Time: Sep 21 05:23:15 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	5.06	168	67	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	0.00	114	0	0.00	ug/l	-5.76
63) Chlorobenzene-d5	9.94	117	80	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.65	152	148	50.00	ug/l	0.02

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.03	65	63	69.83	ug/l	0.02
Spiked Amount	50.000		Recovery	=	139.66%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	7.72	98	147	0.00	ug/l	0.01
Spiked Amount	50.000		Recovery	=	0.00%	
62) 4-Bromofluorobenzene	11.51	95	1284	0.00	ug/l	0.01
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.99	85	166	181.533	ug/l #	40
3) Chloromethane	1.15	50	106	116.097	ug/l #	12
4) Vinyl Chloride	1.18	62	76	81.676	ug/l #	1
5) Bromomethane	1.34	94	243	530.344	ug/l	94
6) Chloroethane	1.49	64	59	133.137	ug/l #	1
7) Trichlorofluoromethane	1.65	101	63	36.342	ug/l #	18
8) Diethyl Ether	1.69	74	153	530.485	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	2.00	101	72	78.097	ug/l #	23
10) Methyl Iodide	1.94	142	79	53.138	ug/l #	24
11) Tert butyl alcohol	2.68	59	62	1301.692	ug/l #	1
12) 1,1-Dichloroethene	1.84	96	340	445.931	ug/l #	1
13) Acrolein	2.05	56	127	3288.373	ug/l	83
14) Allyl chloride	2.15	41	255	191.655	ug/l	88
15) Acrylonitrile	3.09	53	173	1357.737	ug/l #	14
16) Acetone	2.45	43	843	3317.952	ug/l	94
17) Carbon Disulfide	1.89	76	82	41.627	ug/l #	70
18) Methyl Acetate	2.45	43	843	1991.672	ug/l #	69
19) Methyl tert-butyl Ether	2.54	73	345	181.506	ug/l #	59
20) Methylene Chloride	2.27	84	145	239.459	ug/l #	1
21) trans-1,2-Dichloroethene	2.41	96	151	191.749	ug/l #	1
22) Diisopropyl ether	2.93	45	77	30.673	ug/l #	1
23) Vinyl Acetate	3.32	43	440	446.276	ug/l #	79
24) 1,1-Dichloroethane	2.96	63	73	44.839	ug/l #	89
25) 2-Butanone	4.57	43	1118	3269.199	ug/l	95
26) 2,2-Dichloropropane	3.76	77	101	108.727	ug/l #	58
27) cis-1,2-Dichloroethene	3.63	96	234	226.186	ug/l	1
28) Bromochloromethane	3.89	49	164	258.736	ug/l #	8
29) Tetrahydrofuran	4.24	42	708	5653.407	ug/l #	65
30) Chloroform	4.05	83	101	51.415	ug/l #	15
31) Cyclohexane	3.88	56	214	155.618	ug/l #	3
32) 1,1,1-Trichloroethane	4.22	97	60	38.709	ug/l #	28
65) Chlorobenzene	9.99	112	75	41.364	ug/l #	41
66) 1,1,1,2-Tetrachloroethane	10.03	131	67	89.042	ug/l #	6
67) Ethyl Benzene	10.05	91	987	294.413	ug/l #	46

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

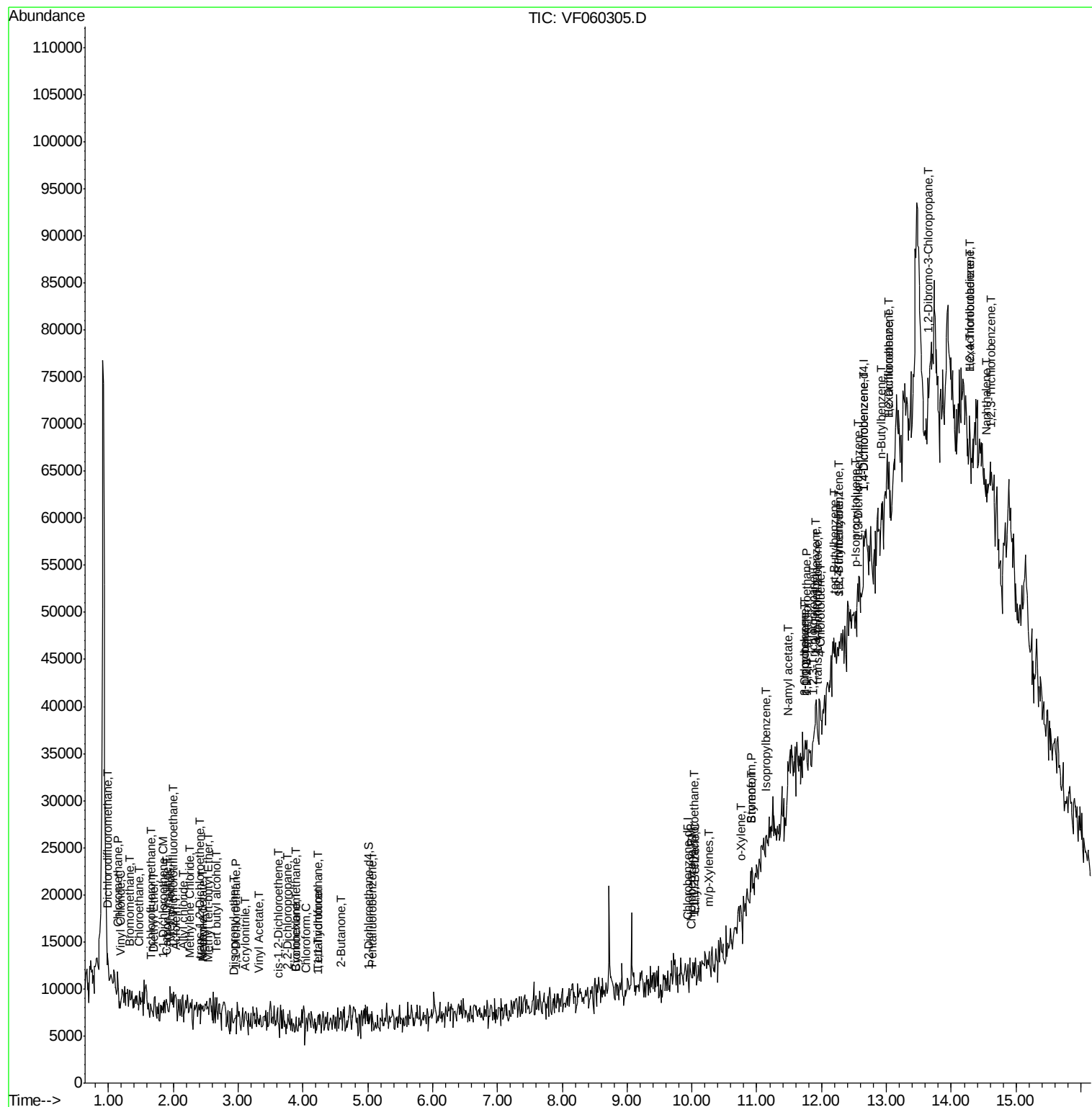
68) m/p-Xylenes	10.26	106	124	107.061	ug/l #	1
69) o-Xylene	10.74	106	340	261.720	ug/l	50
70) Styrene	10.92	104	79	43.120	ug/l #	20
71) Bromoform	10.93	173	69	166.970	ug/l #	31
73) Isopropylbenzene	11.13	105	710	53.438	ug/l	85
74) N-amyl acetate	11.48	43	538	189.888	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	11.77	83	541	229.759	ug/l #	73
76) 1,2,3-Trichloropropane	11.86	75	60	35.588	ug/l #	1
78) n-propylbenzene	11.73	91	911	73.498	ug/l	97
79) 2-Chlorotoluene	11.73	91	911	101.648	ug/l	73
80) 1,3,5-Trimethylbenzene	11.91	105	741	69.284	ug/l	76
81) trans-1,4-Dichloro-2-buten	11.95	75	131	147.029	ug/l #	1
82) 4-Chlorotoluene	11.99	91	422	46.847	ug/l	73
83) tert-Butylbenzene	12.20	119	1032	95.188	ug/l #	1
84) 1,2,4-Trimethylbenzene	12.27	105	481	44.290	ug/l	95
85) sec-Butylbenzene	12.27	105	481	35.714	ug/l	98
86) p-Isopropyltoluene	12.52	119	216	16.031	ug/l #	1
87) 1,3-Dichlorobenzene	12.55	146	345	64.478	ug/l #	1
88) 1,4-Dichlorobenzene	12.64	146	311	58.806	ug/l #	1
89) n-Butylbenzene	12.92	91	451	38.201	ug/l #	48
90) Hexachloroethane	13.03	117	387	127.563	ug/l	70
91) 1,2-Dichlorobenzene	13.05	146	348	68.180	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	13.64	75	215	486.329	ug/l	61
93) 1,2,4-Trichlorobenzene	14.28	180	67	18.060	ug/l #	1
94) Hexachlorobutadiene	14.27	225	80	31.899	ug/l #	19
95) Naphthalene	14.54	128	765	117.613	ug/l #	33
96) 1,2,3-Trichlorobenzene	14.62	180	240	70.011	ug/l #	12

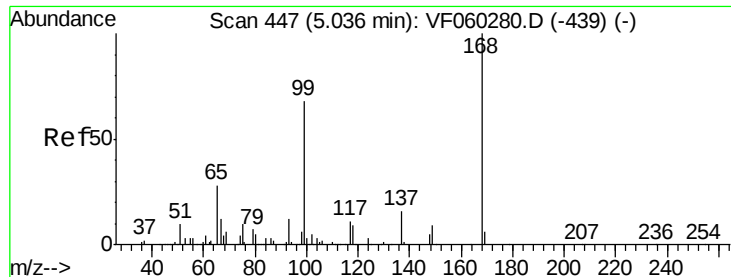
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 449

Delta R.T. 0.02 min

Lab File: VF060305.D

Acq: 20 Sep 2018 18:53

Instrument :

MSVOA_F

ClientSampleId :

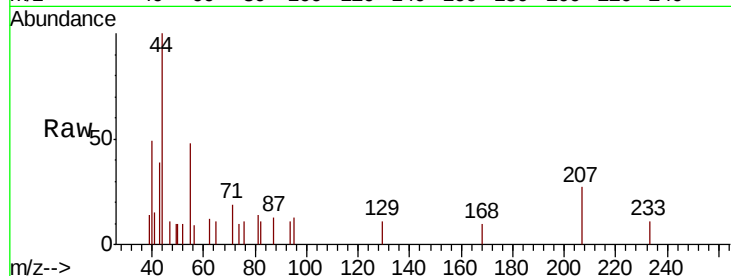
LS-SOIL-E

Tot Ion:168 Resp: 67

Ion Ratio Lower Upper

168 100

99 0.0 54.8 82.2#



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.06

120

100

80

60

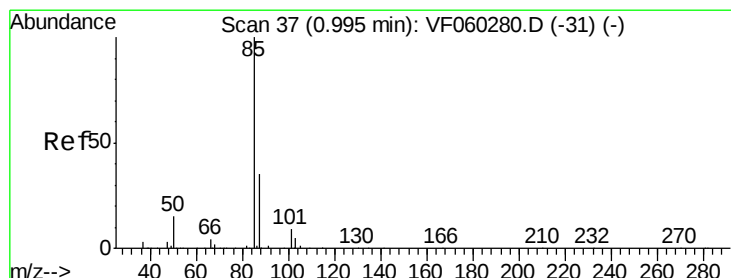
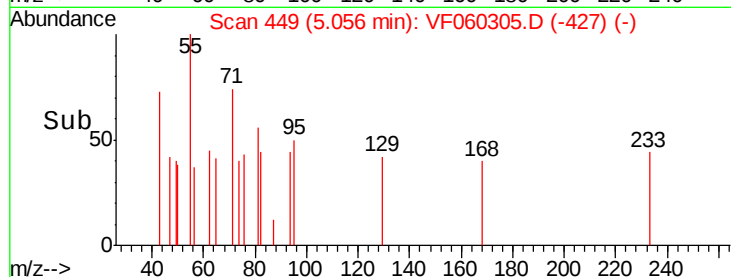
40

20

0

Time-->

5.02 5.04 5.06 5.08



#2

Dichlorodifluoromethane

Concen: 181.533 ug/l

RT: 0.99 min Scan# 36

Delta R.T. -0.01 min

Lab File: VF060305.D

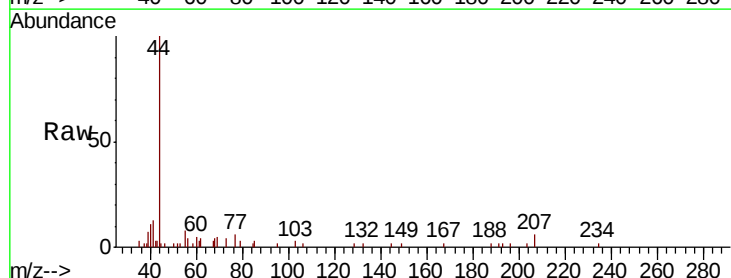
Acq: 20 Sep 2018 18:53

Tgt Ion: 85 Resp: 166

Ion Ratio Lower Upper

85 100

87 0.0 17.3 52.0#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.99

200

150

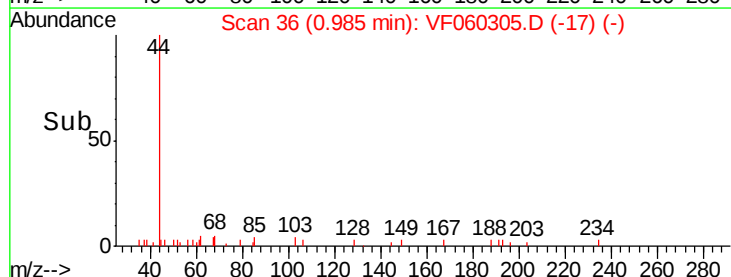
100

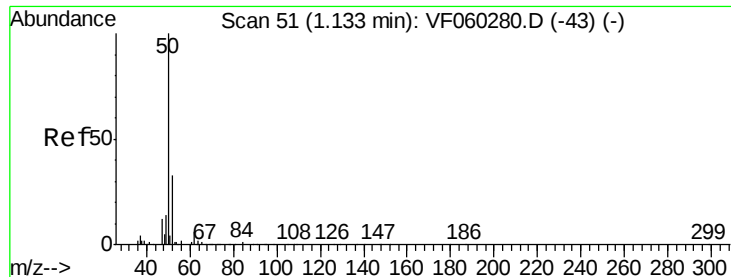
50

0

Time-->

0.96 0.98 1.00 1.02 1.04





#3

Chloromethane

Concen: 116.097 ug/l

RT: 1.15 min Scan# 53

Delta R.T. 0.02 min

Lab File: VF060305.D

Acq: 20 Sep 2018 18:53

Instrument :

MSVOA_F

ClientSampleId :

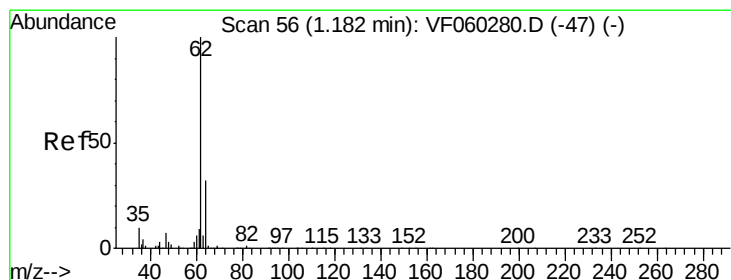
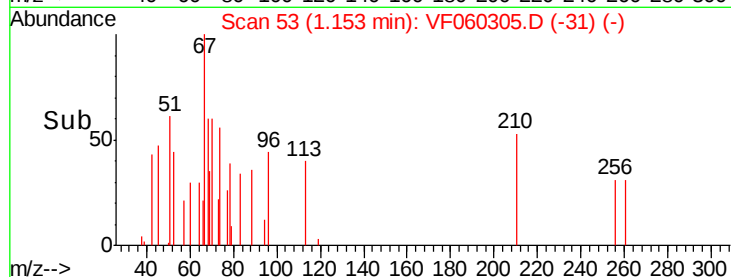
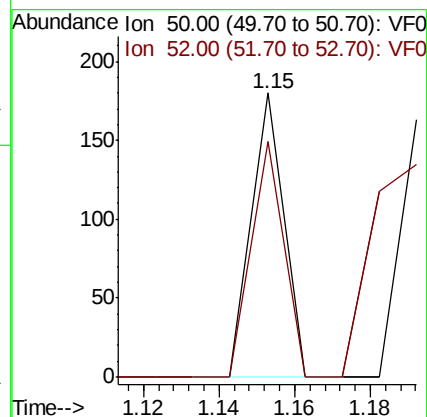
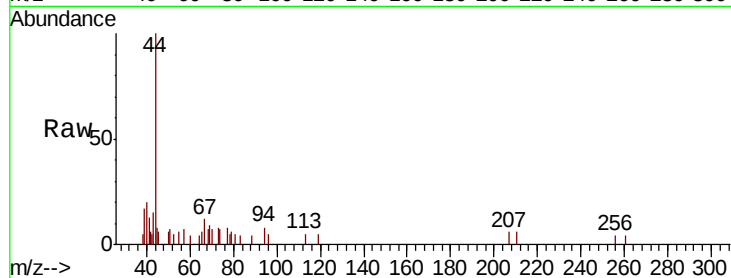
LS-SOIL-E

Tot Ion: 50 Resp: 106

Ion Ratio Lower Upper

50 100

52 82.8 26.5 39.7#



#4

Vinyl Chloride

Concen: 81.676 ug/l

RT: 1.18 min Scan# 56

Delta R.T. 0.00 min

Lab File: VF060305.D

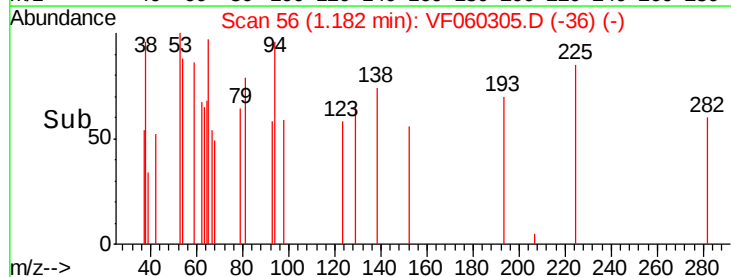
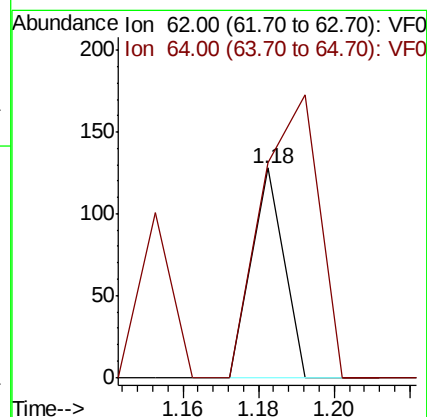
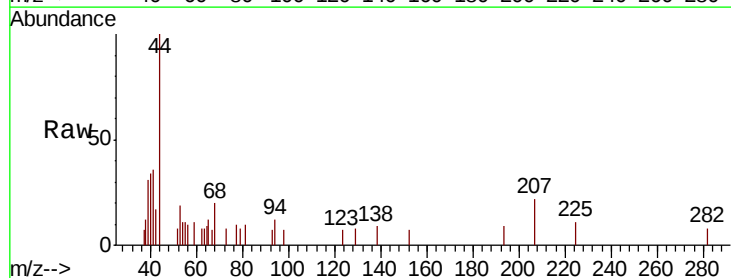
Acq: 20 Sep 2018 18:53

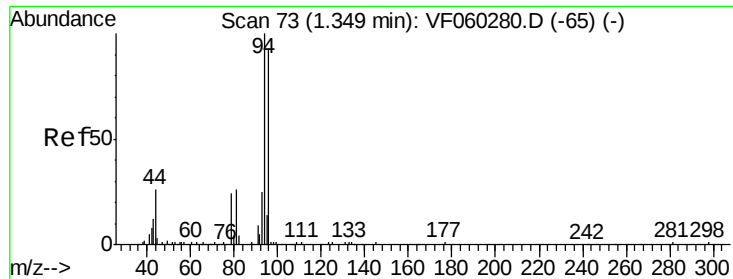
Tgt Ion: 62 Resp: 76

Ion Ratio Lower Upper

62 100

64 102.3 25.2 37.8#





#5

Bromomethane

Concen: 530.344 ug/l

RT: 1.34 min Scan# 72

Delta R.T. -0.01 min

Lab File: VF060305.D

Acq: 20 Sep 2018 18:53

Instrument :

MSVOA_F

ClientSampled :

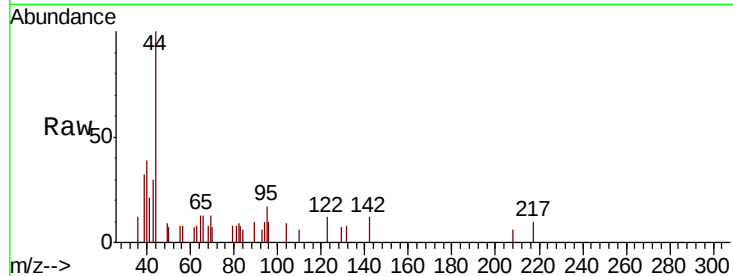
LS-SOIL-E

Tot Ion: 94 Resp: 243

Ion Ratio Lower Upper

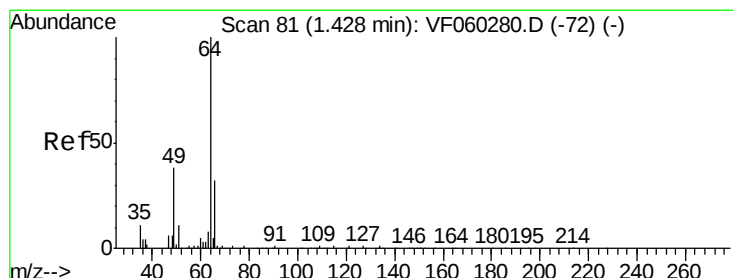
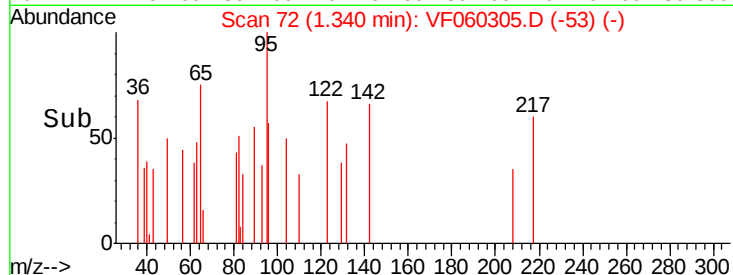
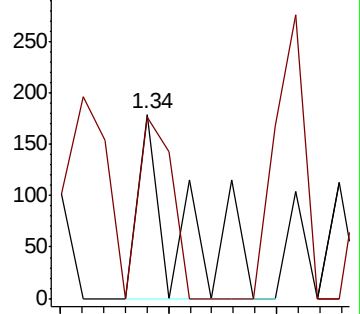
94 100

96 98.3 73.9 110.9



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 133.137 ug/l

RT: 1.49 min Scan# 87

Delta R.T. 0.06 min

Lab File: VF060305.D

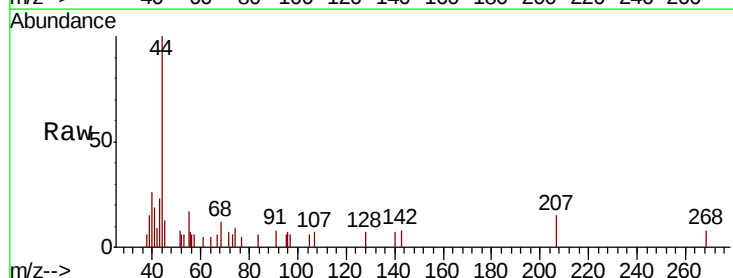
Acq: 20 Sep 2018 18:53

Tgt Ion: 64 Resp: 59

Ion Ratio Lower Upper

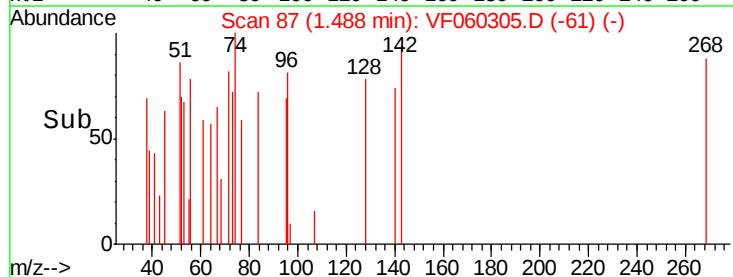
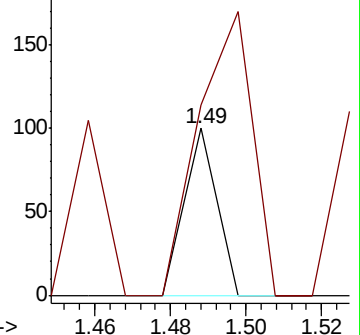
64 100

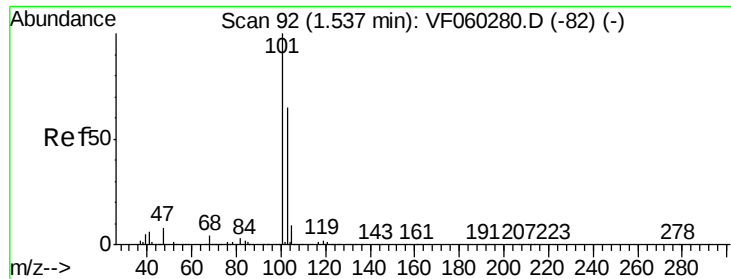
66 114.0 26.2 39.2#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



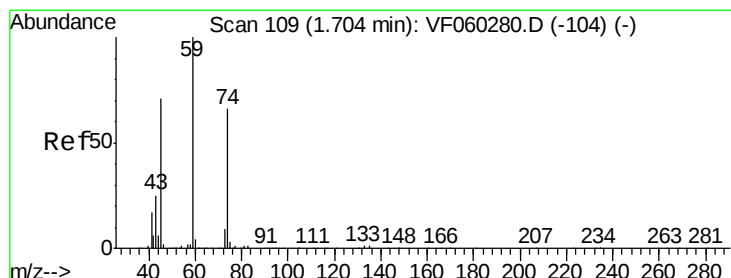
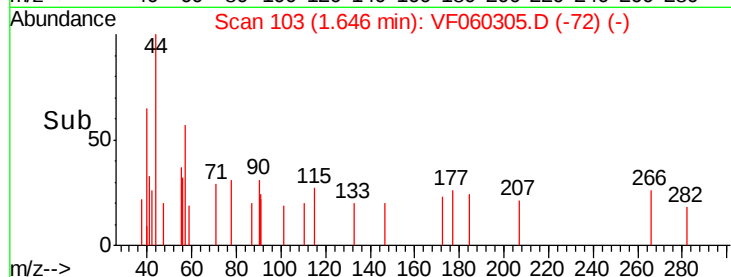
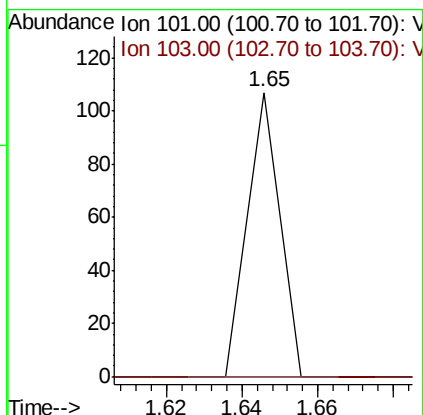
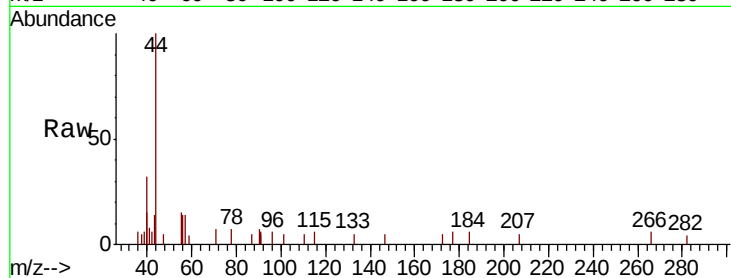


#7

Trichlorofluoromethane
Concen: 36.342 ug/l
RT: 1.65 min Scan# 103
Delta R.T. 0.11 min
Lab File: VF060305.D
Acq: 20 Sep 2018 18:53

Instrument :
MSVOA_F
ClientSampleId :
LS-SOIL-E

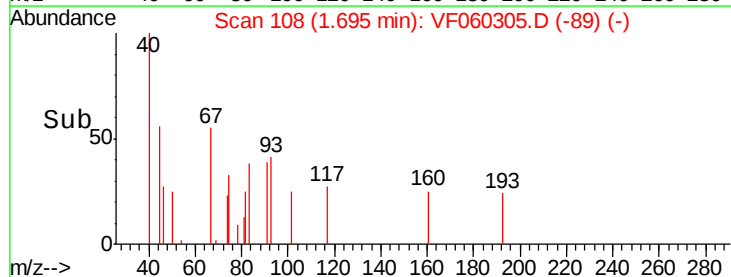
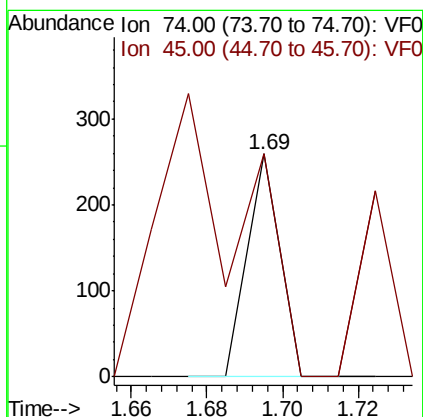
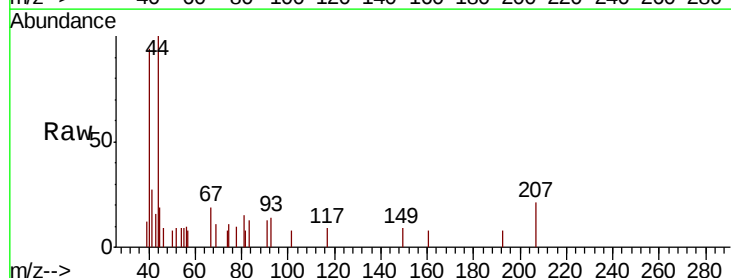
Tot Ion:101 Resp: 63
Ion Ratio Lower Upper
101 100
103 0.0 52.0 78.0#

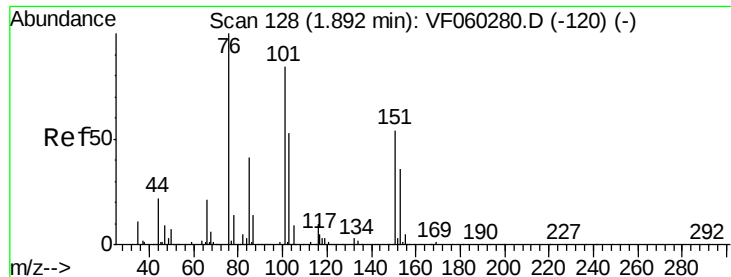


#8

Diethyl Ether
Concen: 530.485 ug/l
RT: 1.69 min Scan# 108
Delta R.T. -0.01 min
Lab File: VF060305.D
Acq: 20 Sep 2018 18:53

Tgt Ion: 74 Resp: 153
Ion Ratio Lower Upper
74 100
45 100.4 53.9 161.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 78.097 ug/l

RT: 2.00 min Scan# 139

Delta R.T. 0.11 min

Lab File: VF060305.D

Acq: 20 Sep 2018 18:53

Instrument :

MSVOA_F

ClientSampleId :

LS-SOIL-E

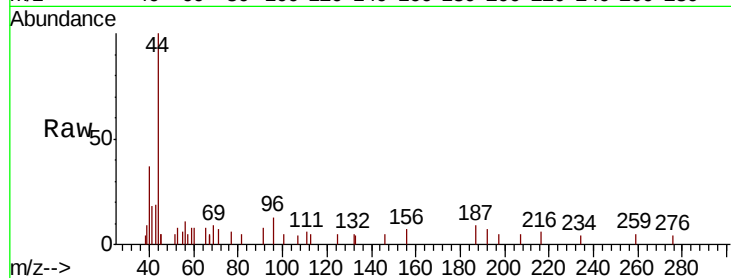
Tot Ion:101 Resp: 72

Ion Ratio Lower Upper

101 100

85 0.0 38.7 58.1#

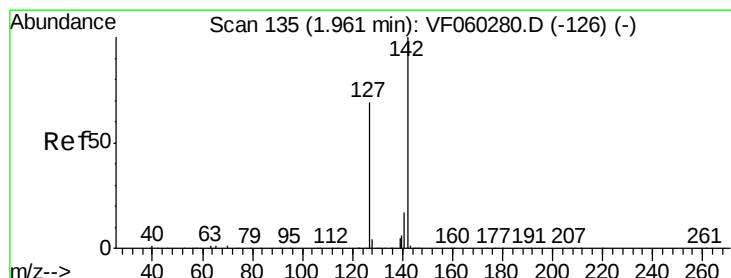
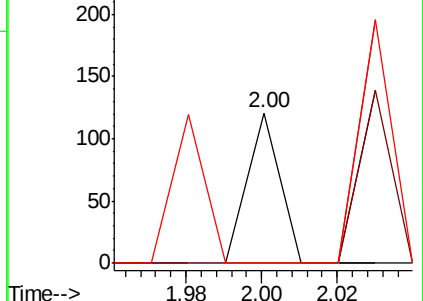
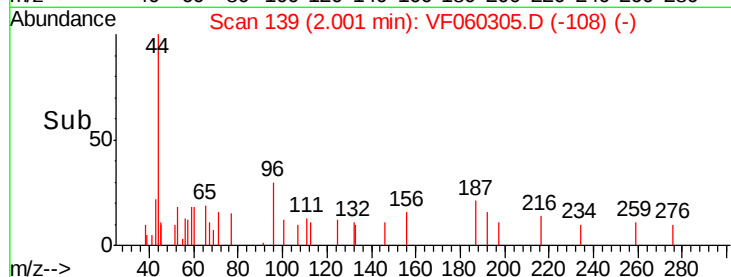
151 0.0 50.8 76.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 53.138 ug/l

RT: 1.94 min Scan# 133

Delta R.T. -0.02 min

Lab File: VF060305.D

Acq: 20 Sep 2018 18:53

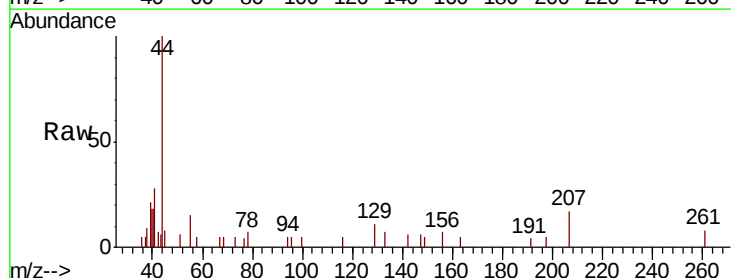
Tgt Ion:142 Resp: 79

Ion Ratio Lower Upper

142 100

127 0.0 55.4 83.0#

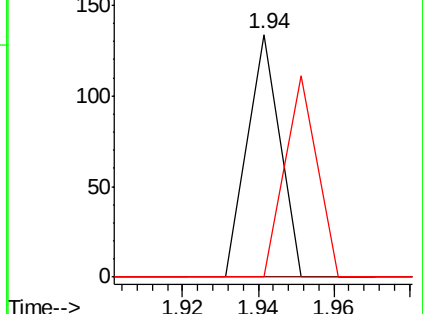
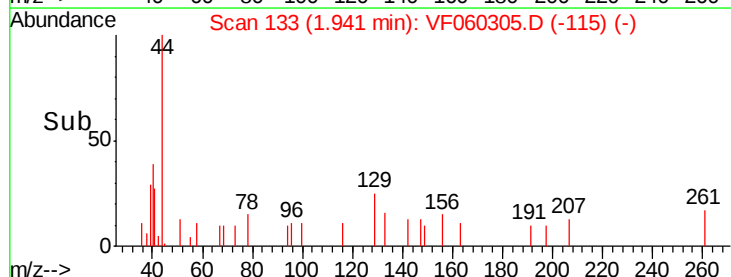
141 0.0 13.3 19.9#

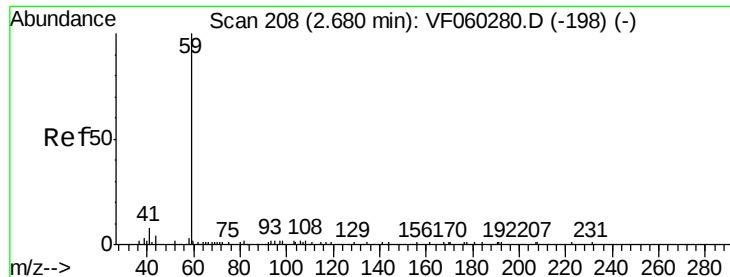


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



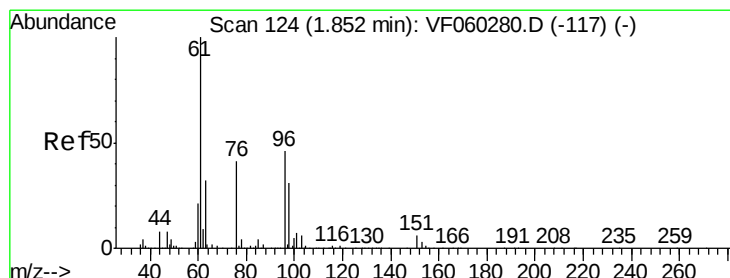
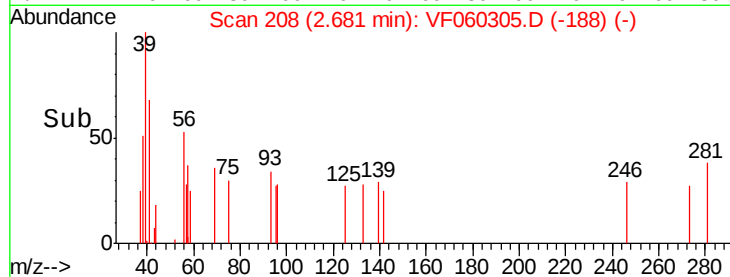
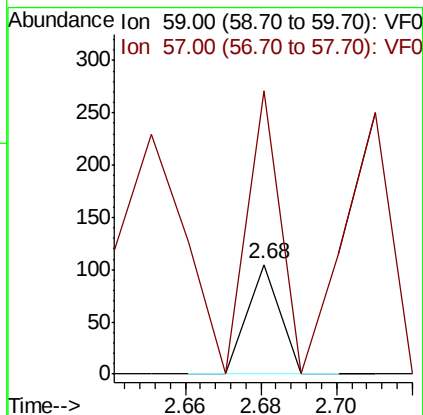
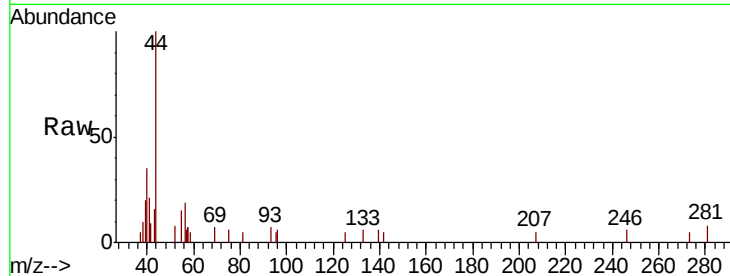


#11

Tert butyl alcohol
 Concen: 1301.692 ug/l
 RT: 2.68 min Scan# 208
 Delta R.T. 0.00 min
 Lab File: VF060305.D
 Acq: 20 Sep 2018 18:53

Instrument :
 MSVOA_F
 ClientSampled :
 LS-SOIL-E

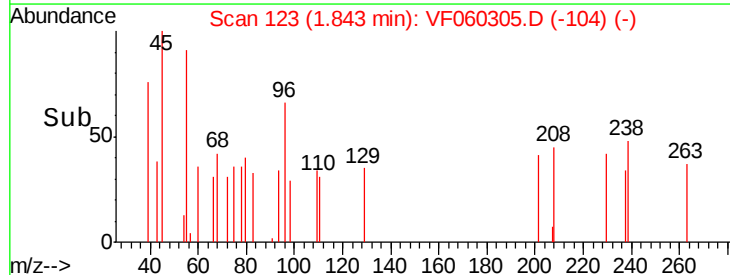
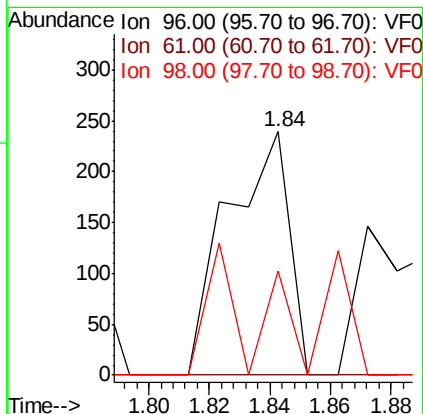
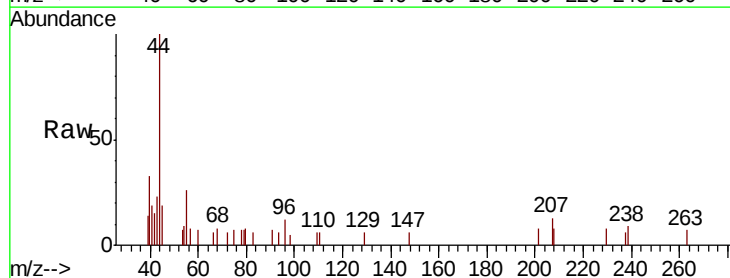
Tot Ion: 59 Resp: 62
 Ion Ratio Lower Upper
 59 100
 57 406.7 12.4 18.6#

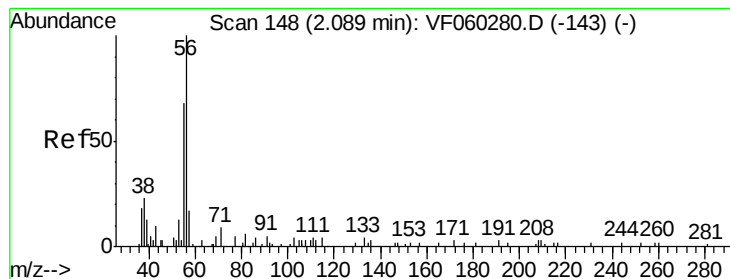


#12

1,1-Dichloroethene
 Concen: 445.931 ug/l
 RT: 1.84 min Scan# 123
 Delta R.T. -0.01 min
 Lab File: VF060305.D
 Acq: 20 Sep 2018 18:53

Tgt Ion: 96 Resp: 340
 Ion Ratio Lower Upper
 96 100
 61 0.0 172.2 258.2#
 98 43.1 54.1 81.1#





#13

Acrolein

Concen: 3288.373 ug/l

RT: 2.05 min Scan# 144

Delta R.T. -0.04 min

Lab File: VF060305.D

Acq: 20 Sep 2018 18:53

Instrument :

MSVOA_F

ClientSampleId :

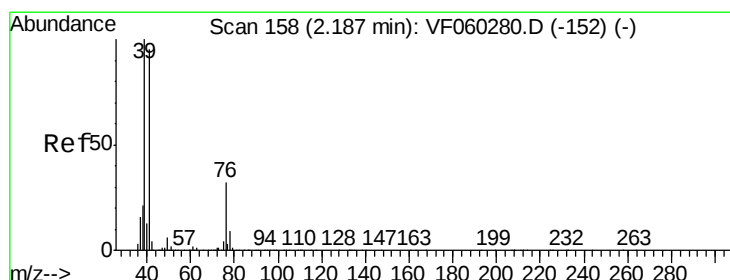
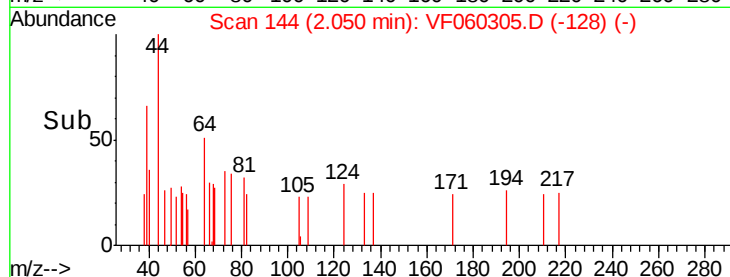
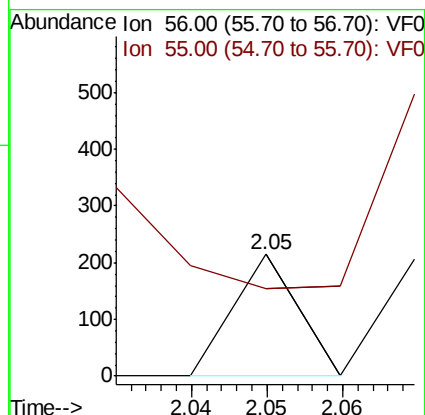
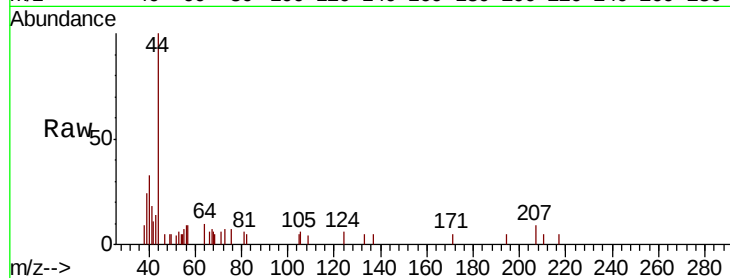
LS-SOIL-E

Tot Ion: 56 Resp: 127

Ion Ratio Lower Upper

56 100

55 72.1 69.9 104.9



#14

Allyl chloride

Concen: 191.655 ug/l

RT: 2.15 min Scan# 154

Delta R.T. -0.04 min

Lab File: VF060305.D

Acq: 20 Sep 2018 18:53

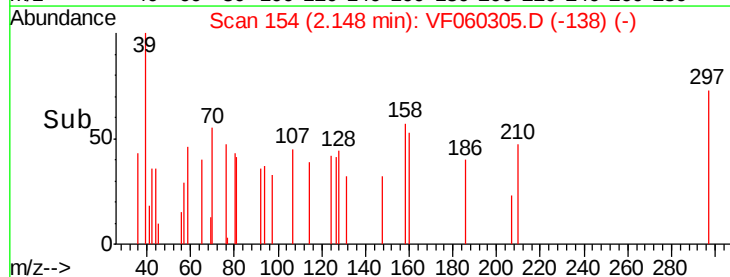
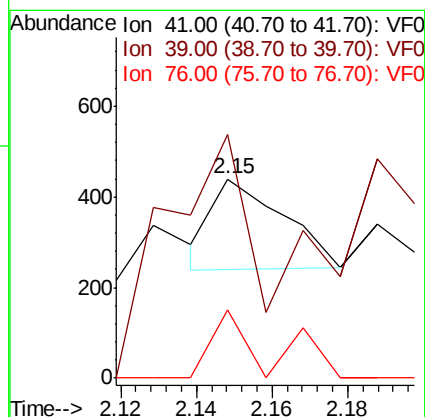
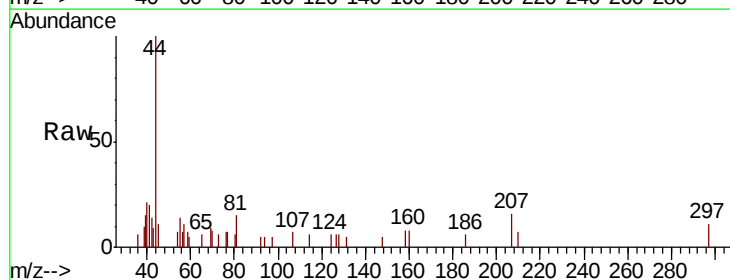
Tgt Ion: 41 Resp: 255

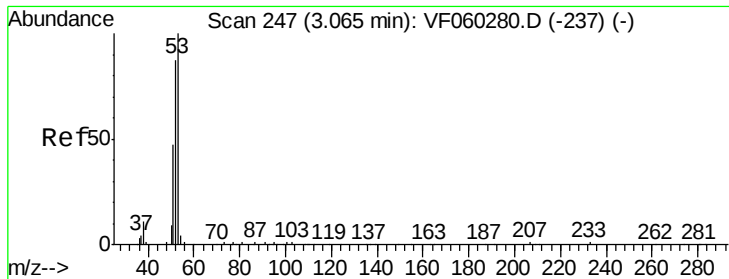
Ion Ratio Lower Upper

41 100

39 122.0 84.8 127.2

76 34.5 27.4 41.2





#15

Acrylonitrile

Concen: 1357.737 ug/l

RT: 3.09 min Scan# 250

Delta R.T. 0.03 min

Lab File: VF060305.D

Acq: 20 Sep 2018 18:53

Instrument :

MSVOA_F

ClientSampleId :

LS-SOIL-E

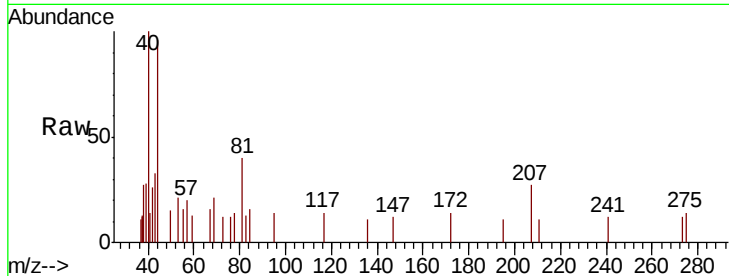
Tot Ion: 53 Resp: 173

Ion Ratio Lower Upper

53 100

52 0.0 69.5 104.3#

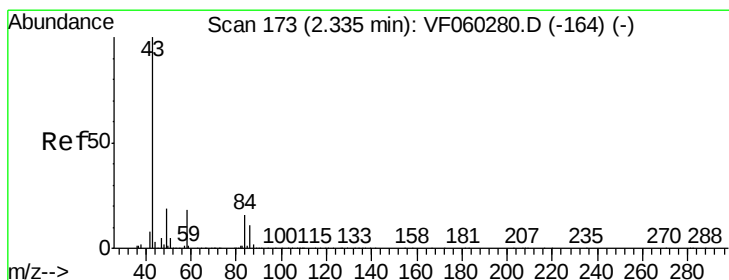
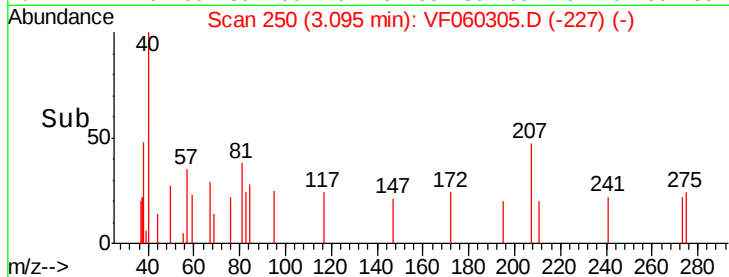
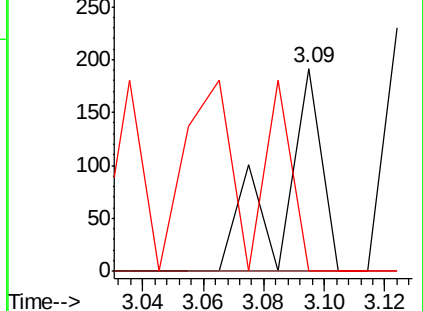
51 0.0 38.1 57.1#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 3317.952 ug/l

RT: 2.45 min Scan# 185

Delta R.T. 0.12 min

Lab File: VF060305.D

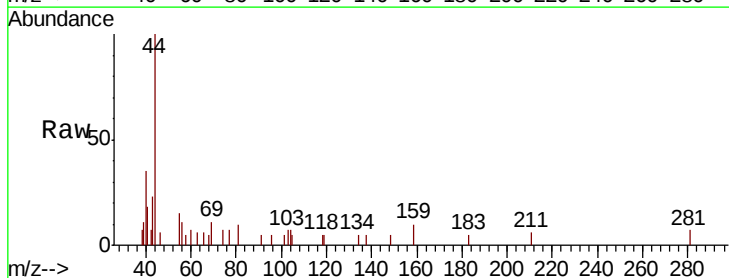
Acq: 20 Sep 2018 18:53

Tgt Ion: 43 Resp: 843

Ion Ratio Lower Upper

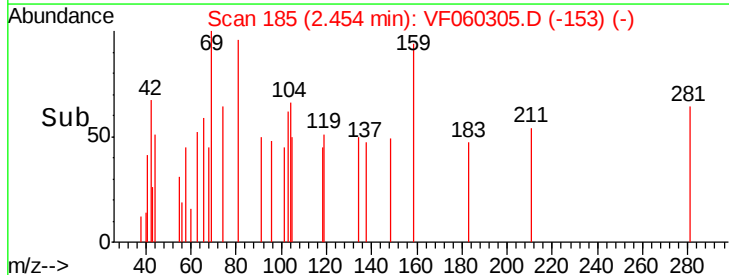
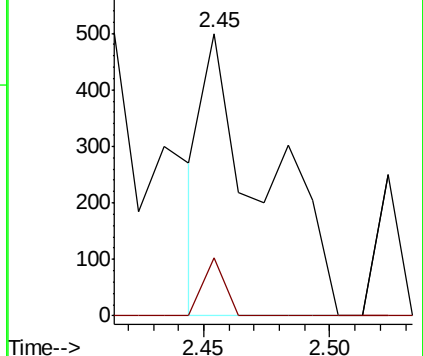
43 100

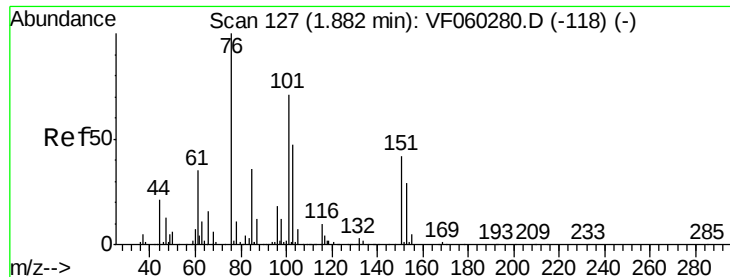
58 20.6 14.5 21.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#17

Carbon Disulfide

Concen: 41.627 ug/l

RT: 1.89 min Scan# 128

Delta R.T. 0.01 min

Lab File: VF060305.D

Acq: 20 Sep 2018 18:53

Instrument :

MSVOA_F

ClientSampleId :

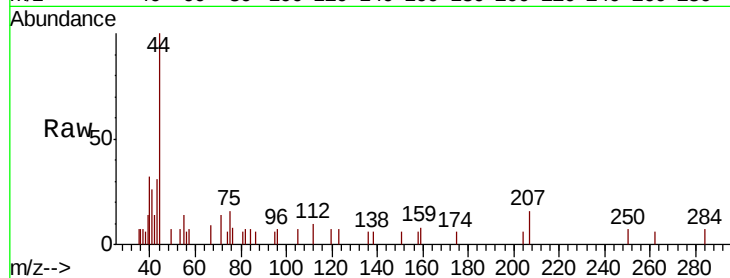
LS-SOIL-E

Tot Ion: 76 Resp: 82

Ion Ratio Lower Upper

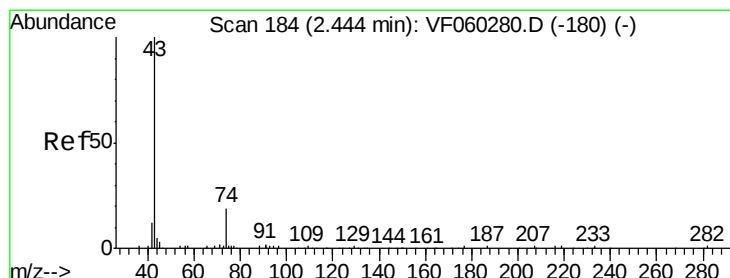
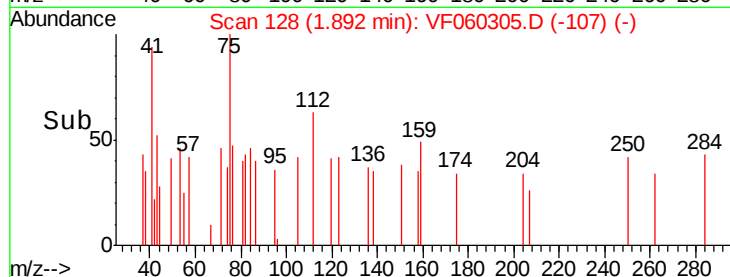
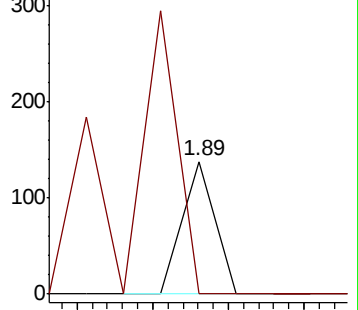
76 100

78 0.0 9.4 14.0#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#18

Methyl Acetate

Concen: 1991.672 ug/l

RT: 2.45 min Scan# 185

Delta R.T. 0.01 min

Lab File: VF060305.D

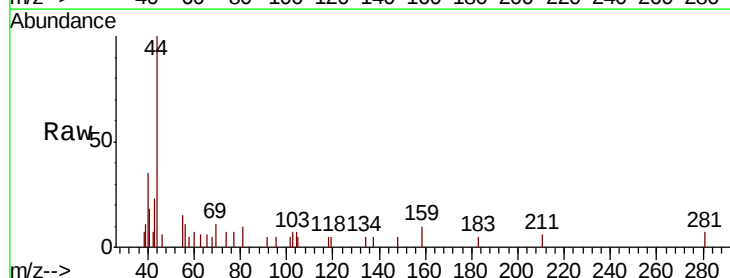
Acq: 20 Sep 2018 18:53

Tgt Ion: 43 Resp: 843

Ion Ratio Lower Upper

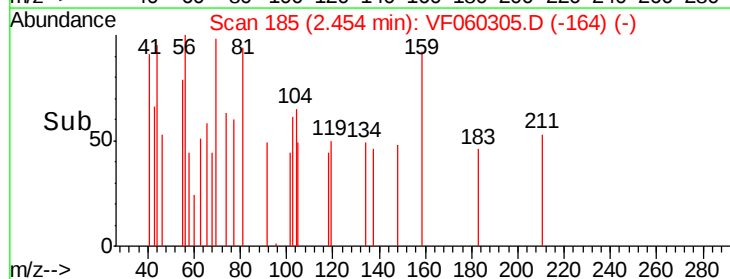
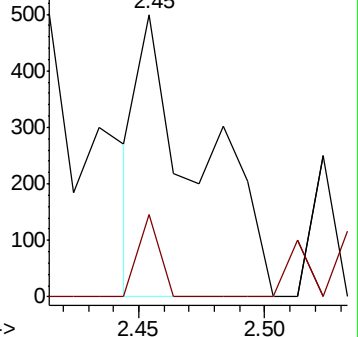
43 100

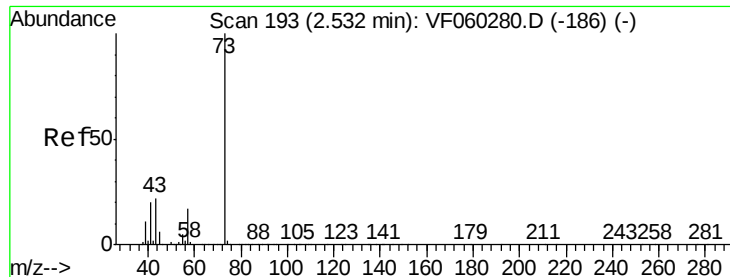
74 29.2 12.7 19.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0



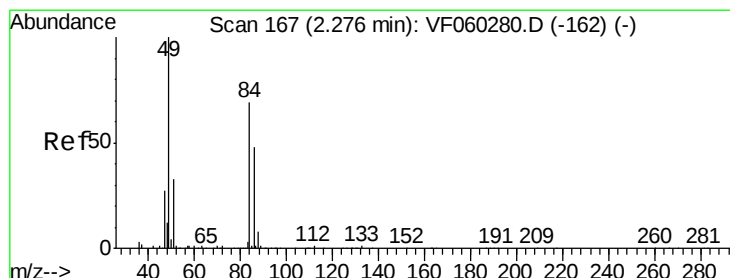
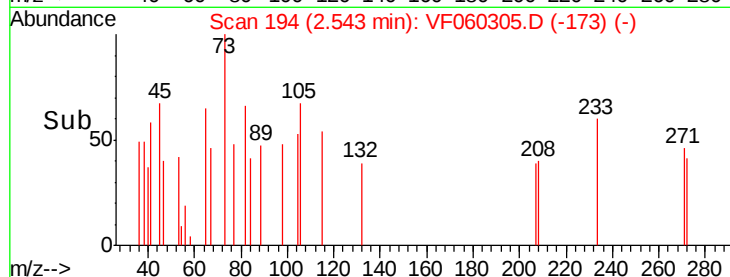
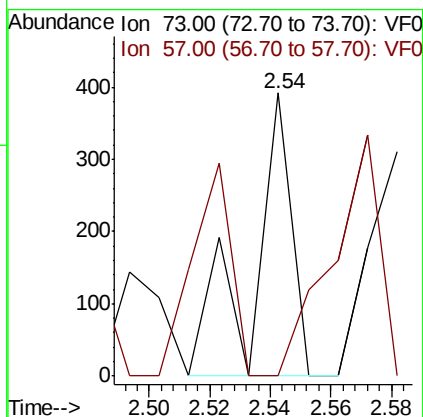
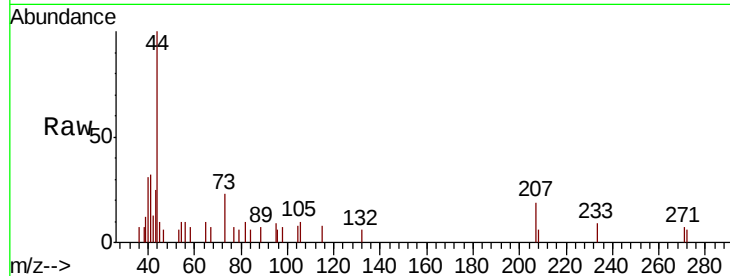


#19

Methyl tert-butyl Ether
 Concen: 181.506 ug/l
 RT: 2.54 min Scan# 194
 Delta R.T. 0.01 min
 Lab File: VF060305.D
 Acq: 20 Sep 2018 18:53

Instrument :
 MSVOA_F
 ClientSampleId :
 LS-SOIL-E

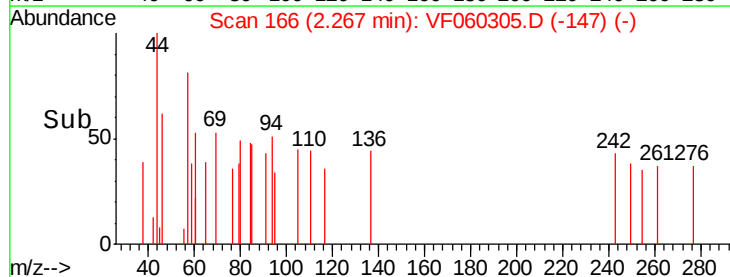
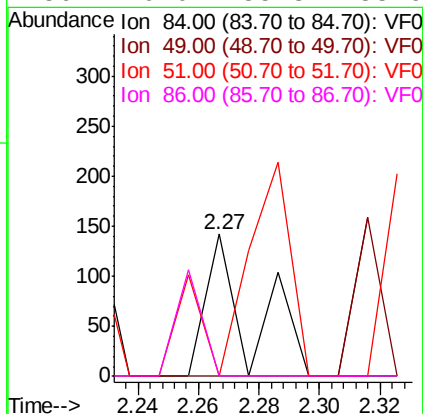
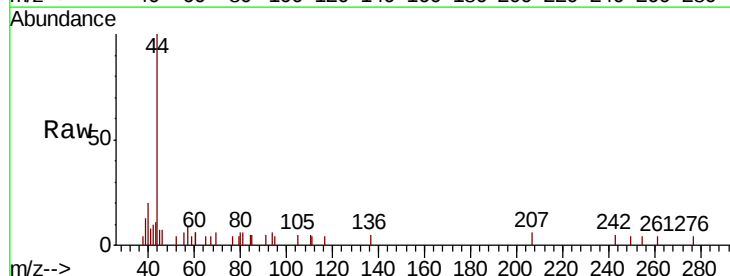
Tot Ion: 73 Resp: 345
 Ion Ratio Lower Upper
 73 100
 57 0.0 14.5 21.7#

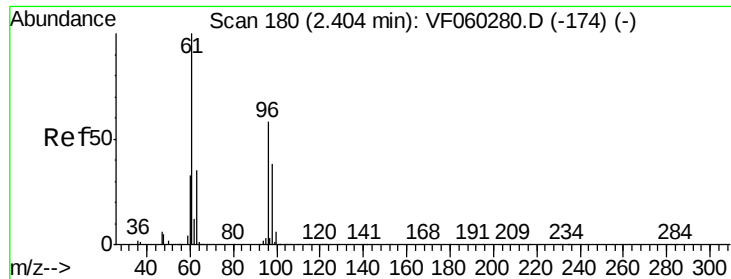


#20

Methylene Chloride
 Concen: 239.459 ug/l
 RT: 2.27 min Scan# 166
 Delta R.T. -0.01 min
 Lab File: VF060305.D
 Acq: 20 Sep 2018 18:53

Tgt Ion: 84 Resp: 145
 Ion Ratio Lower Upper
 84 100
 49 0.0 118.3 177.5#
 51 0.0 38.7 58.1#
 86 0.0 55.8 83.6#





#21

trans-1,2-Dichloroethene

Concen: 191.749 ug/l

RT: 2.41 min Scan# 181

Delta R.T. 0.01 min

Lab File: VF060305.D

Acq: 20 Sep 2018 18:53

Instrument :

MSVOA_F

ClientSampleId :

LS-SOIL-E

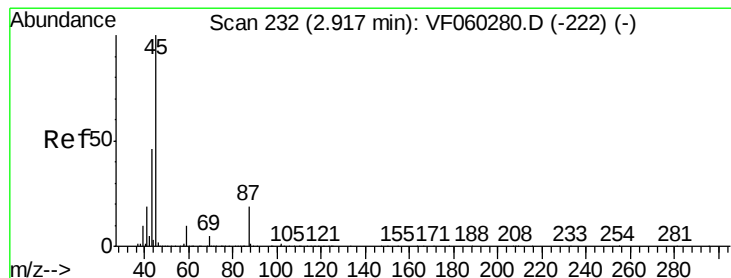
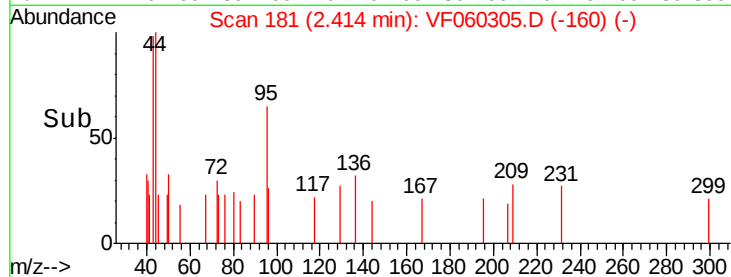
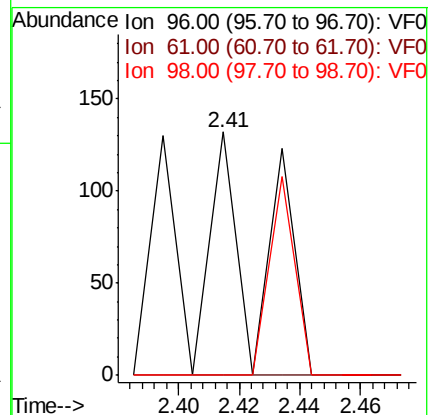
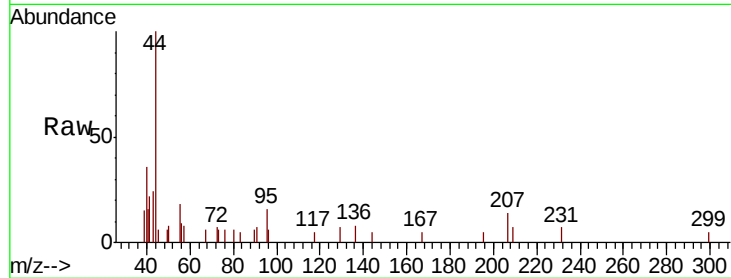
Tot Ion: 96 Resp: 151

Ion Ratio Lower Upper

96 100

61 0.0 136.4 204.6#

98 0.0 51.8 77.6#



#22

Diisopropyl ether

Concen: 30.673 ug/l

RT: 2.93 min Scan# 233

Delta R.T. 0.01 min

Lab File: VF060305.D

Acq: 20 Sep 2018 18:53

Tgt Ion: 45 Resp: 77

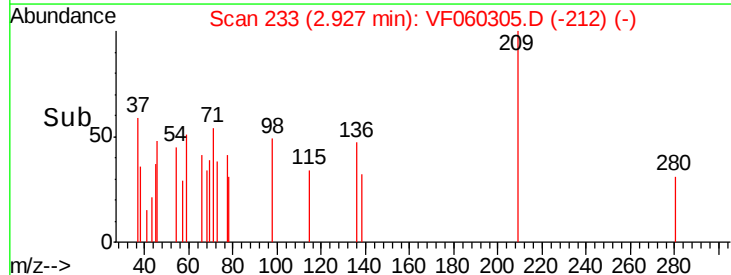
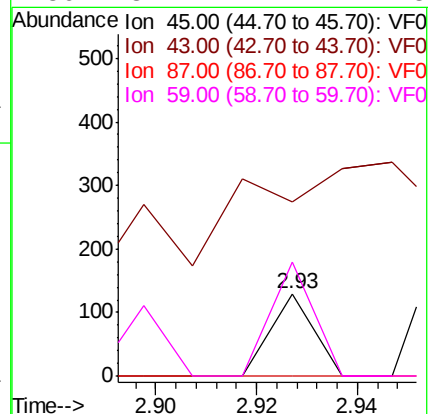
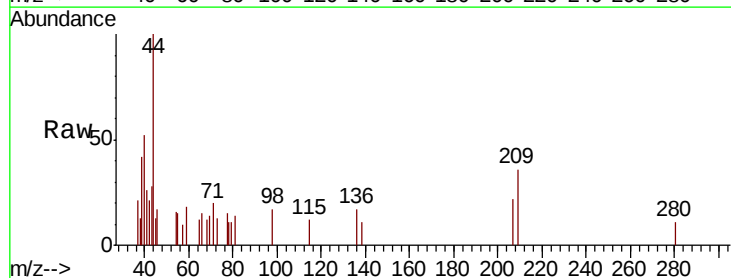
Ion Ratio Lower Upper

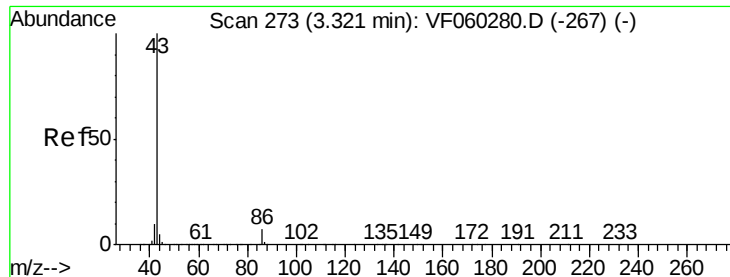
45 100

43 210.8 38.2 57.2#

87 0.0 15.5 23.3#

59 137.7 7.7 11.5#





#23

Vinyl Acetate

Concen: 446.276 ug/l

RT: 3.32 min Scan# 273

Delta R.T. 0.00 min

Lab File: VF060305.D

Acq: 20 Sep 2018 18:53

Instrument :

MSVOA_F

ClientSampleId :

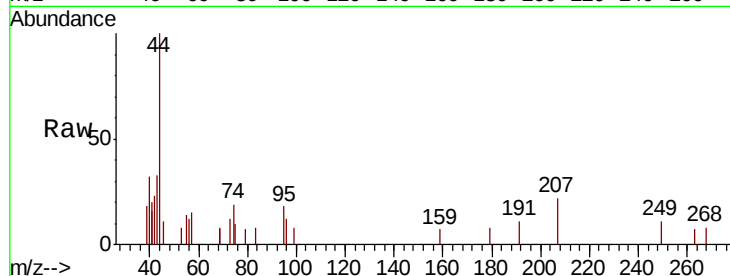
LS-SOIL-E

Tot Ion: 43 Resp: 440

Ion Ratio Lower Upper

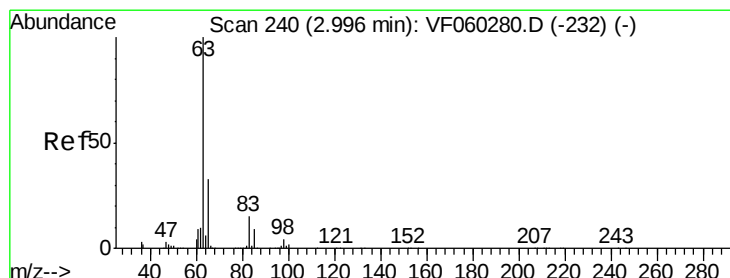
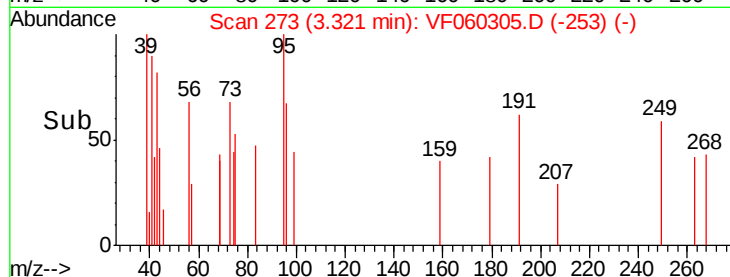
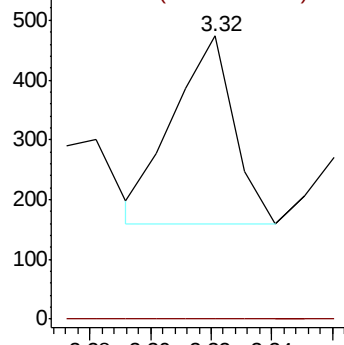
43 100

86 0.0 5.9 8.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 44.839 ug/l

RT: 2.96 min Scan# 236

Delta R.T. -0.04 min

Lab File: VF060305.D

Acq: 20 Sep 2018 18:53

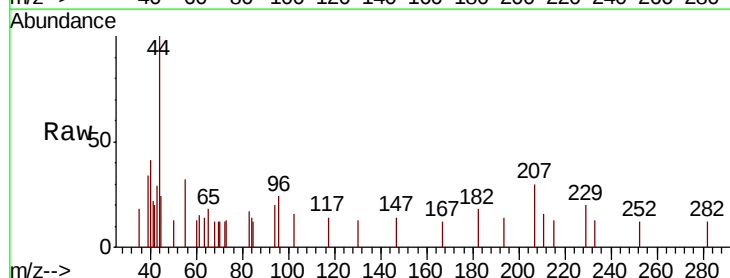
Tgt Ion: 63 Resp: 73

Ion Ratio Lower Upper

63 100

98 0.0 2.1 6.5#

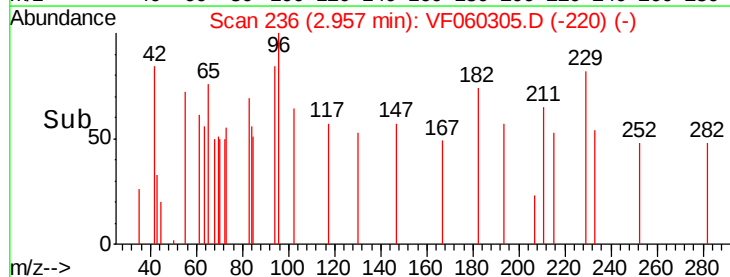
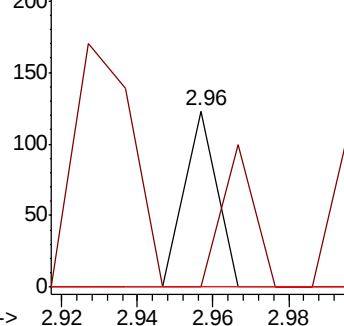
100 0.0 1.1 3.3#

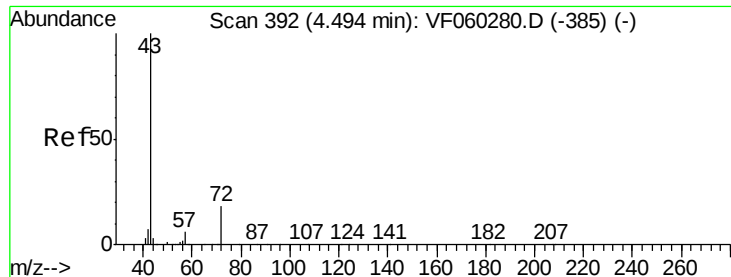


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 3269.199 ug/l

RT: 4.57 min Scan# 400

Delta R.T. 0.08 min

Lab File: VF060305.D

Acq: 20 Sep 2018 18:53

Instrument :

MSVOA_F

ClientSampleId :

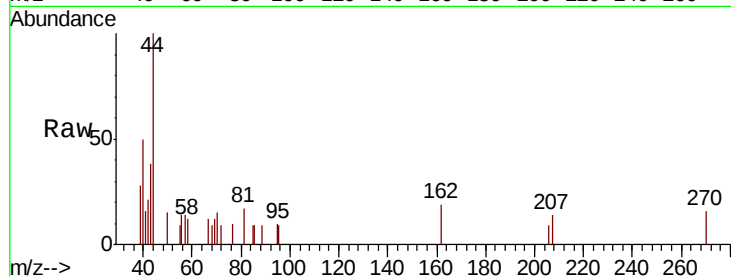
LS-SOIL-E

Tot Ion: 43 Resp: 1118

Ion Ratio Lower Upper

43 100

72 22.5 16.2 24.2



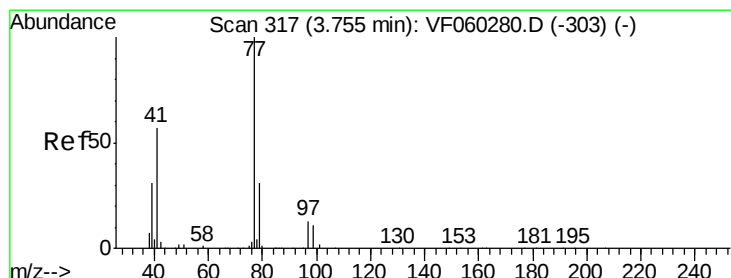
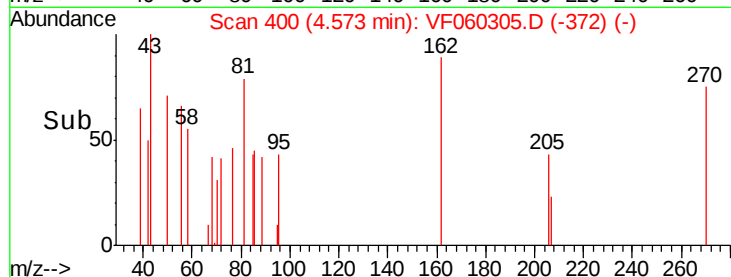
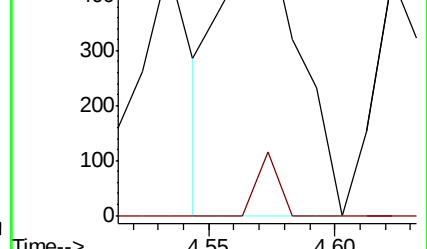
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.57

4.55

4.60



#26

2,2-Dichloropropane

Concen: 108.727 ug/l

RT: 3.76 min Scan# 317

Delta R.T. 0.00 min

Lab File: VF060305.D

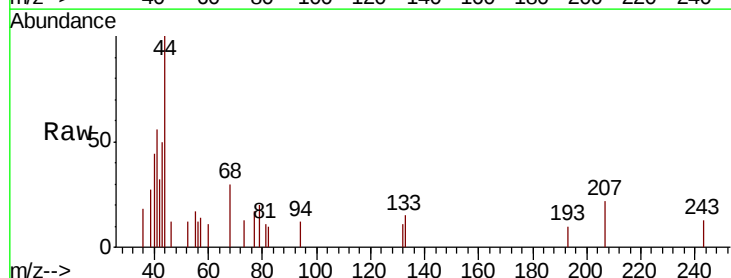
Acq: 20 Sep 2018 18:53

Tgt Ion: 77 Resp: 101

Ion Ratio Lower Upper

77 100

97 0.0 9.3 27.9#

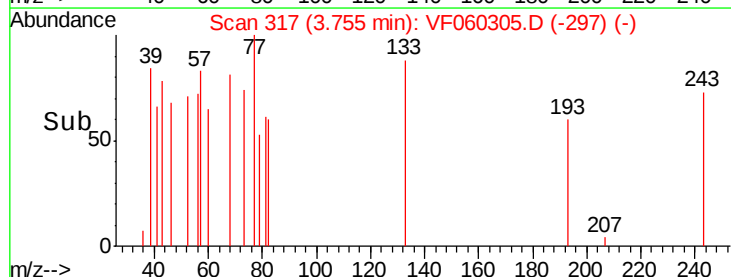
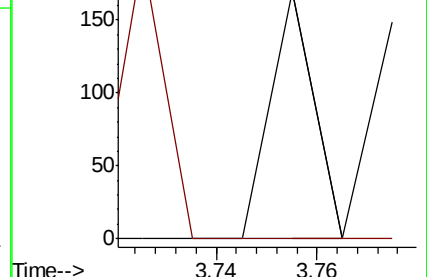


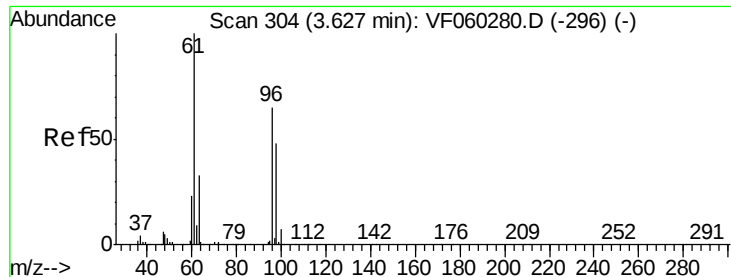
Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0

3.76

3.74



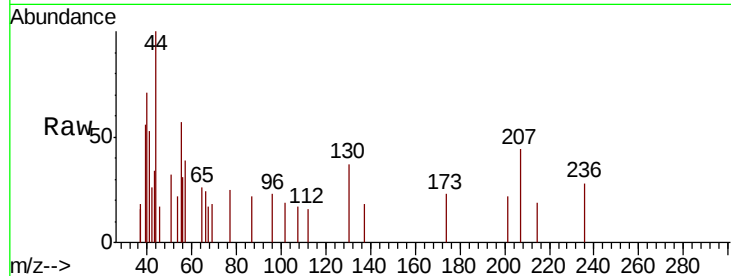


#27

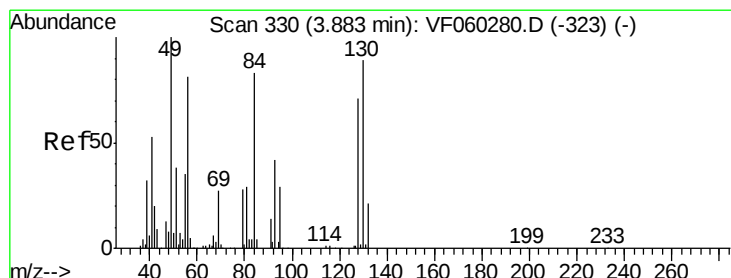
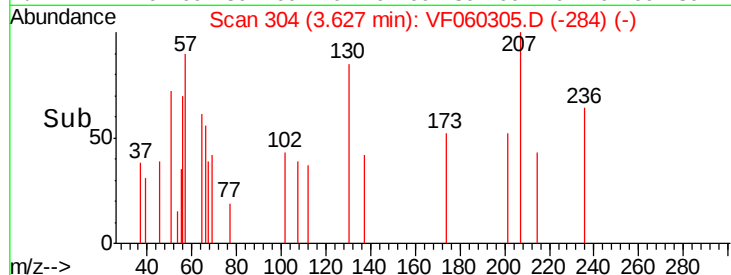
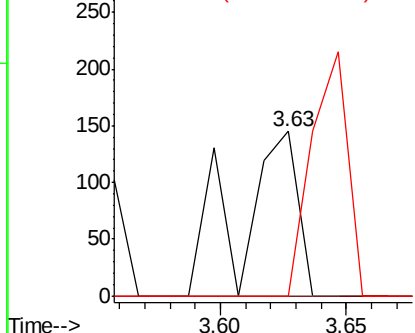
cis-1,2-Dichloroethene
 Concen: 226.186 ug/l
 RT: 3.63 min Scan# 304
 Delta R.T. 0.00 min
 Lab File: VF060305.D
 Acq: 20 Sep 2018 18:53

Instrument :
 MSVOA_F
 ClientSampleId :
 LS-SOIL-E

Tot Ion: 96 Resp: 234
 Ion Ratio Lower Upper
 96 100
 61 0.0 0.0 304.8
 98 0.0 0.0 146.4



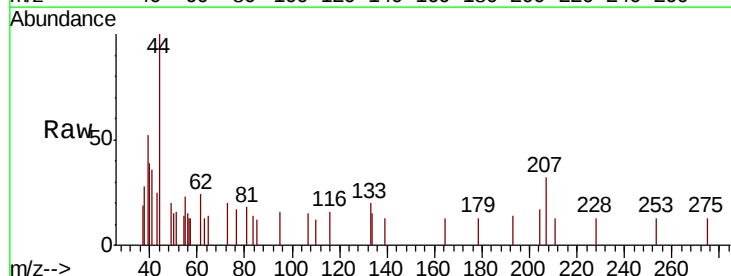
Abundance Ion 96.00 (95.70 to 96.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 98.00 (97.70 to 98.70): VF0



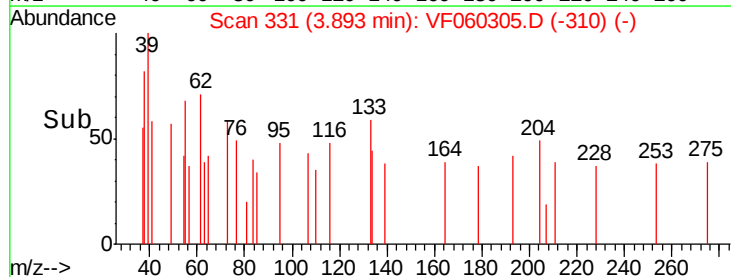
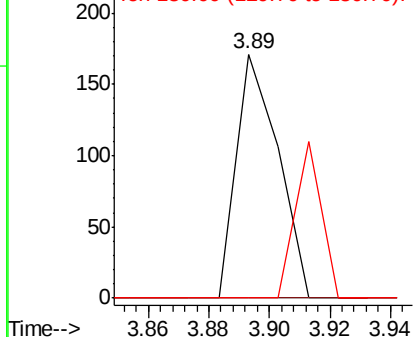
#28

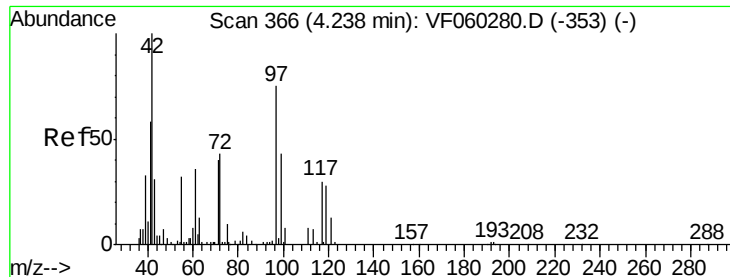
Bromochloromethane
 Concen: 258.736 ug/l
 RT: 3.89 min Scan# 331
 Delta R.T. 0.01 min
 Lab File: VF060305.D
 Acq: 20 Sep 2018 18:53

Tgt Ion: 49 Resp: 164
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 4.2
 130 0.0 70.3 105.5#



Abundance Ion 49.00 (48.70 to 49.70): VF0
 Ion 129.00 (128.70 to 129.70): V
 Ion 130.00 (129.70 to 130.70): V





#29

Tetrahydrofuran

Concen: 5653.407 ug/l

RT: 4.24 min Scan# 366

Delta R.T. 0.00 min

Lab File: VF060305.D

Acq: 20 Sep 2018 18:53

Instrument :

MSVOA_F

ClientSampleId :

LS-SOIL-E

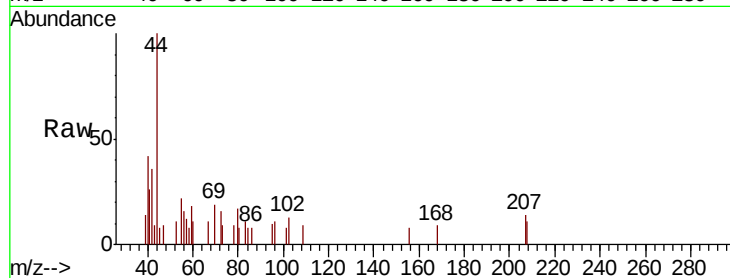
Tot Ion: 42 Resp: 708

Ion Ratio Lower Upper

42 100

72 37.4 32.6 49.0

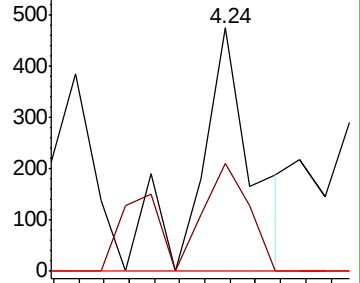
71 0.0 32.7 49.1#



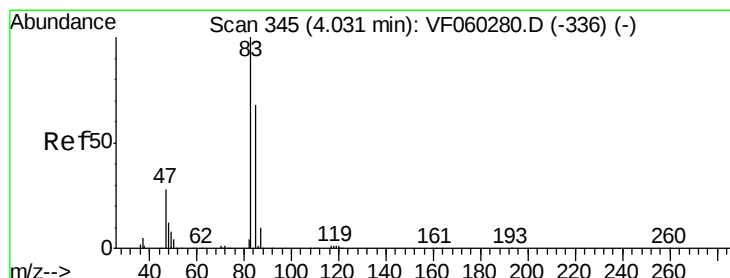
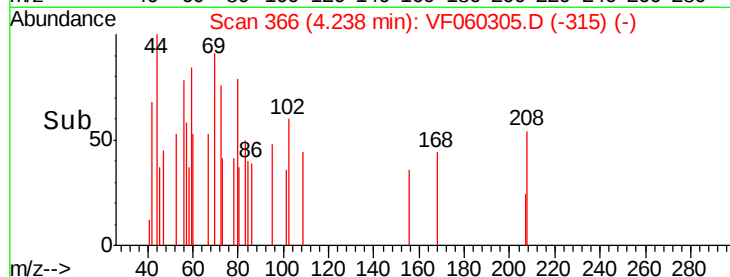
Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



Time-->



#30

Chloroform

Concen: 51.415 ug/l

RT: 4.05 min Scan# 347

Delta R.T. 0.02 min

Lab File: VF060305.D

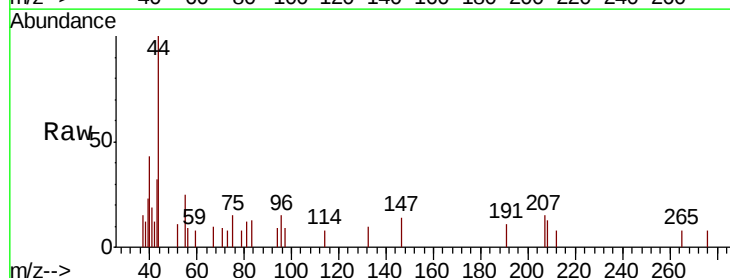
Acq: 20 Sep 2018 18:53

Tgt Ion: 83 Resp: 101

Ion Ratio Lower Upper

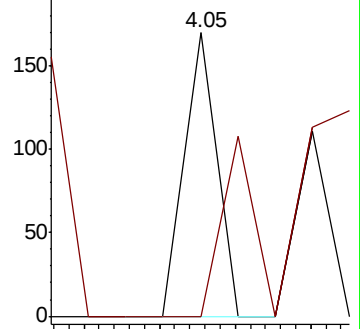
83 100

85 0.0 54.9 82.3#

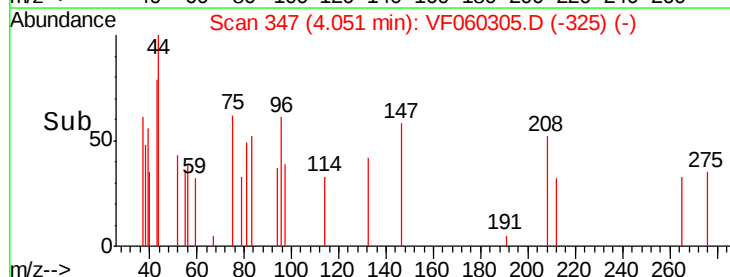


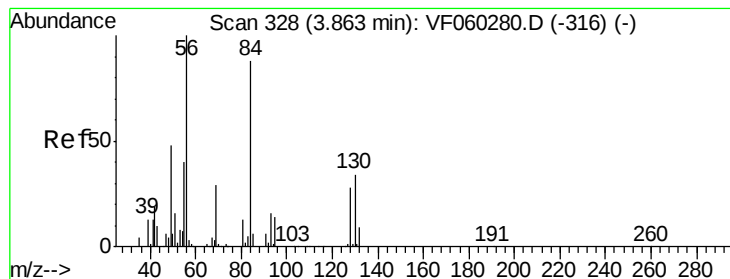
Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



Time-->





#31

Cyclohexane

Concen: 155.618 ug/l

RT: 3.88 min Scan# 330

Delta R.T. 0.02 min

Lab File: VF060305.D

Acq: 20 Sep 2018 18:53

Instrument :

MSVOA_F

ClientSampleID :

LS-SOIL-E

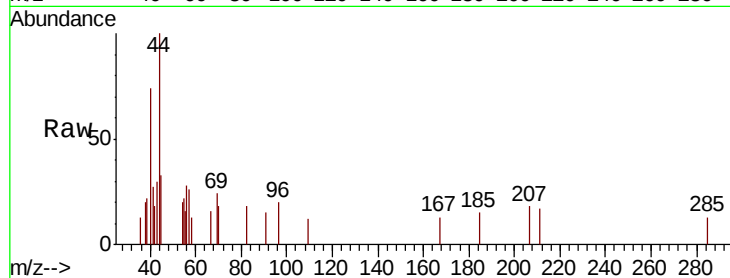
Tot Ion: 56 Resp: 214

Ion Ratio Lower Upper

56 100

69 85.0 23.8 35.6#

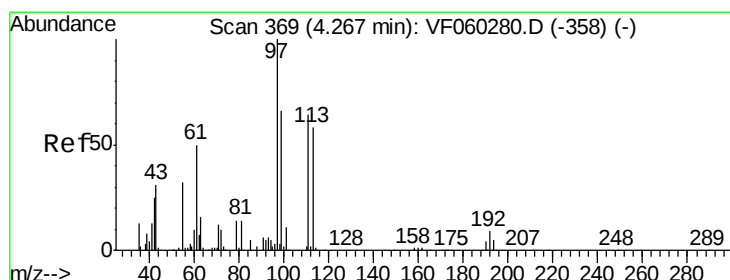
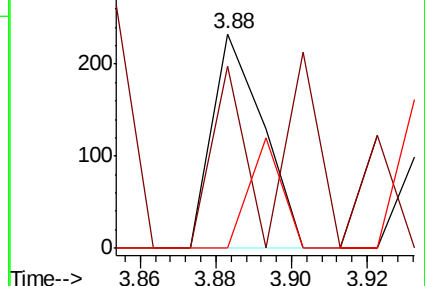
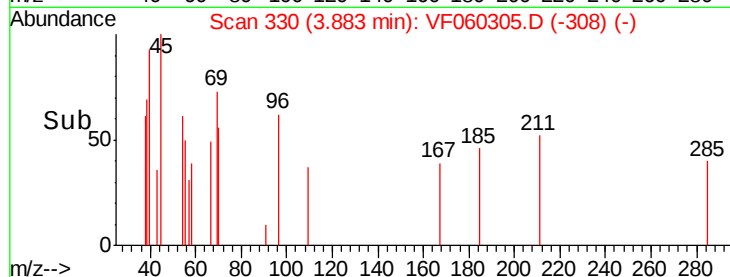
84 0.0 70.2 105.4#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0



#32

1,1,1-Trichloroethane

Concen: 38.709 ug/l

RT: 4.22 min Scan# 364

Delta R.T. -0.05 min

Lab File: VF060305.D

Acq: 20 Sep 2018 18:53

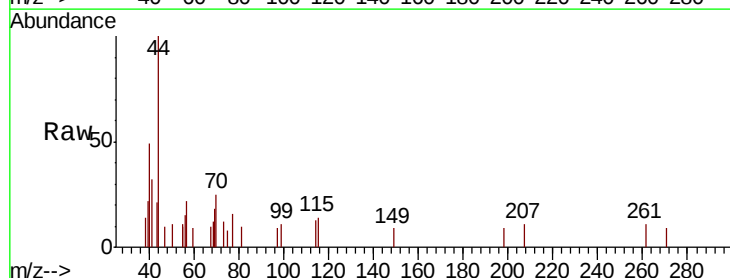
Tgt Ion: 97 Resp: 60

Ion Ratio Lower Upper

97 100

99 123.5 53.0 79.4#

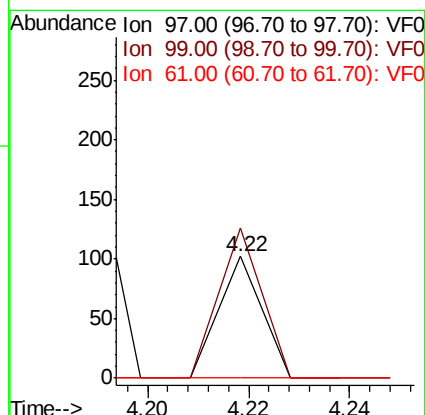
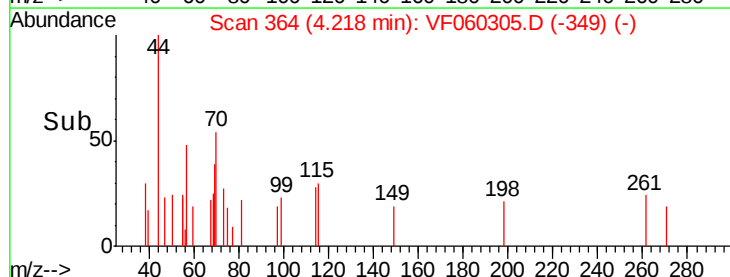
61 0.0 40.6 61.0#

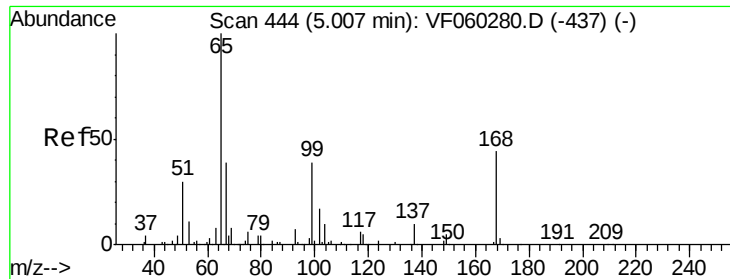


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 69.831 ug/l

RT: 5.03 min Scan# 446

Delta R.T. 0.02 min

Lab File: VF060305.D

Acq: 20 Sep 2018 18:53

Instrument :

MSVOA_F

ClientSampleId :

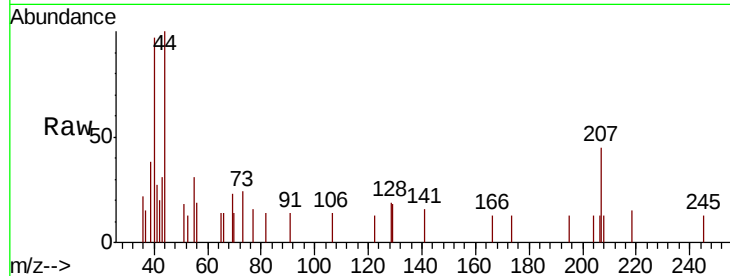
LS-SOIL-E

Tot Ion: 65 Resp: 63

Ion Ratio Lower Upper

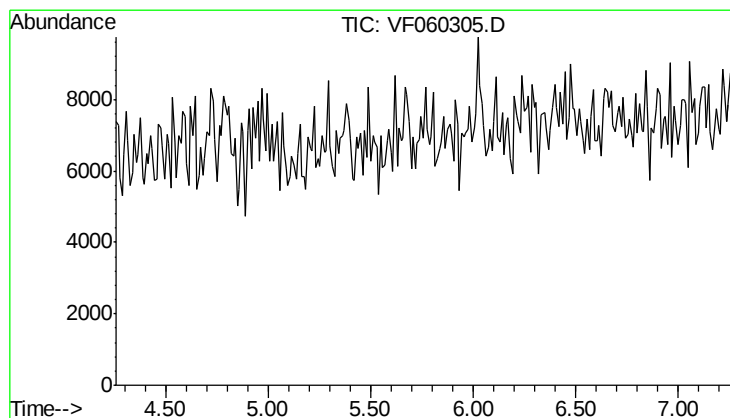
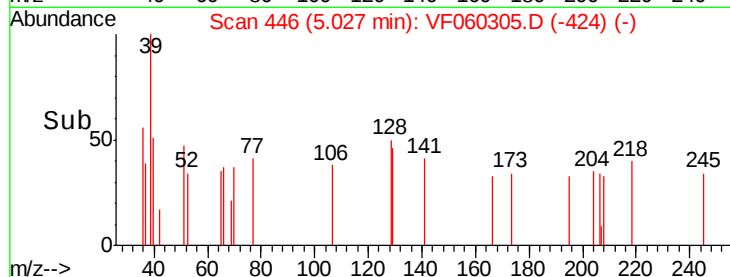
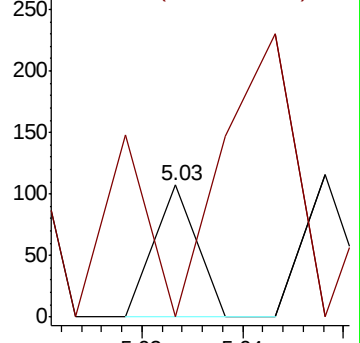
65 100

67 0.0 0.0 94.4



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 0.000 ug/l

Expected RT: 5.76 min

Lab File: VF060305.D

Acq: 20 Sep 2018 18:53

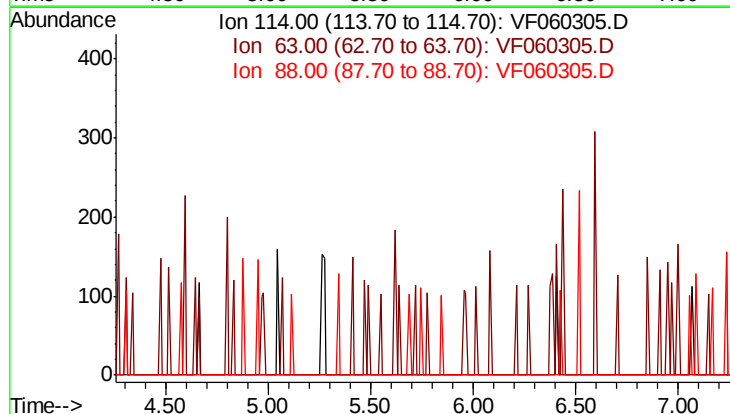
Tgt Ion: 114

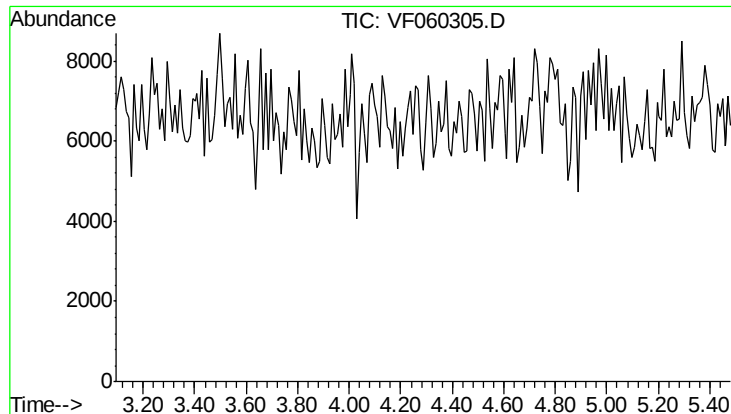
Sig Exp Ratio

114 100

63 21.9

88 20.6



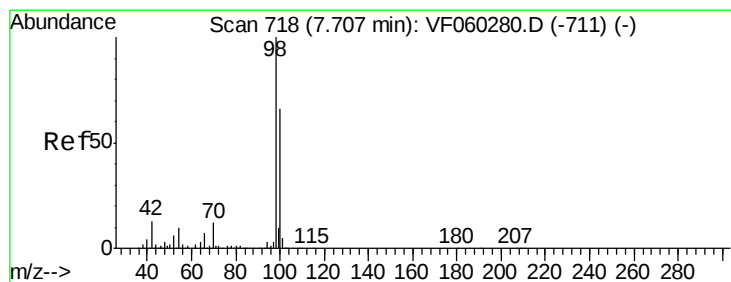
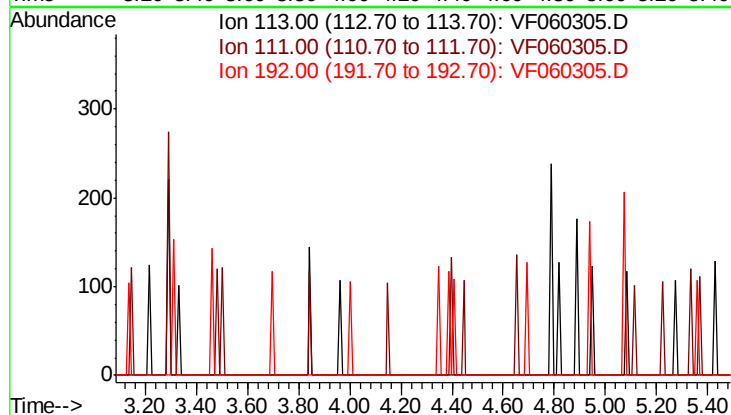


#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 4.29 min

Lab File: VF060305.D
 Acq: 20 Sep 2018 18:53

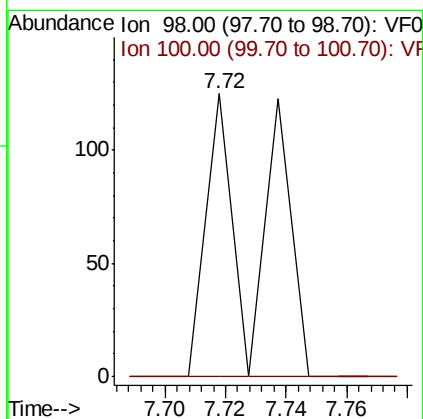
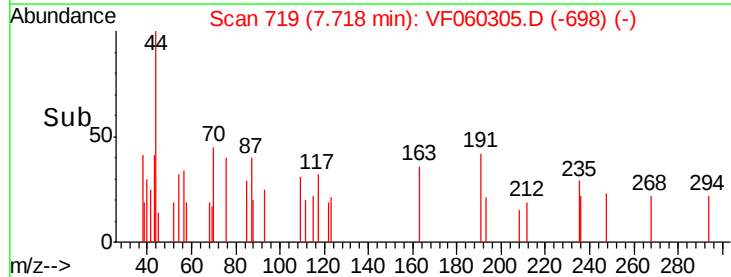
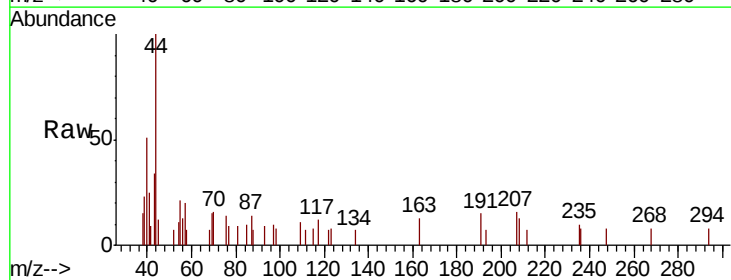
Instrument :
 MSVOA_F
 ClientSampleId :
 LS-SOIL-E

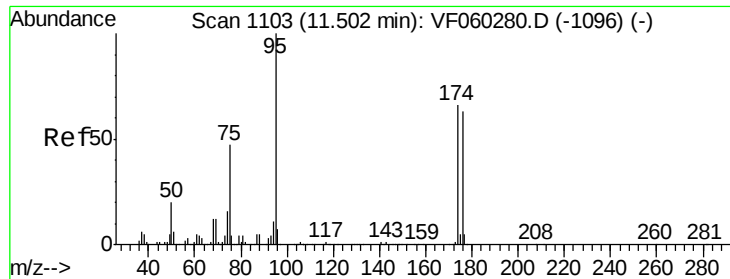
Tot Ion: 113
 Sig Exp Ratio
 113 100
 111 99.5
 192 16.3



#50
 Toluene-d8
 Concen: 0.000 ug/l
 RT: 7.72 min Scan# 719
 Delta R.T. 0.01 min
 Lab File: VF060305.D
 Acq: 20 Sep 2018 18:53

Tgt Ion: 98 Resp: 147
 Ion Ratio Lower Upper
 98 100
 100 0.0 53.0 79.6#

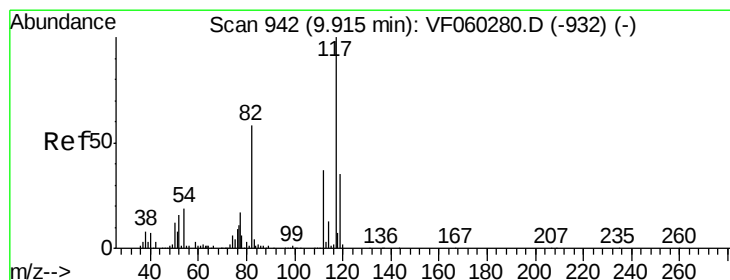
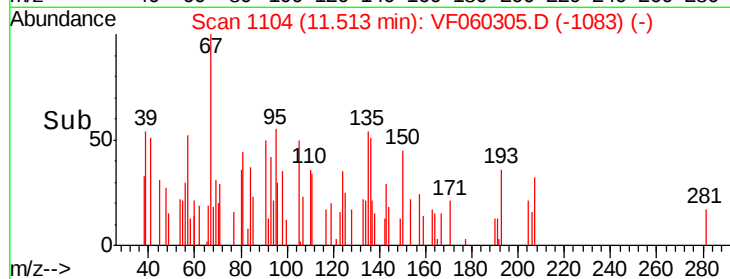
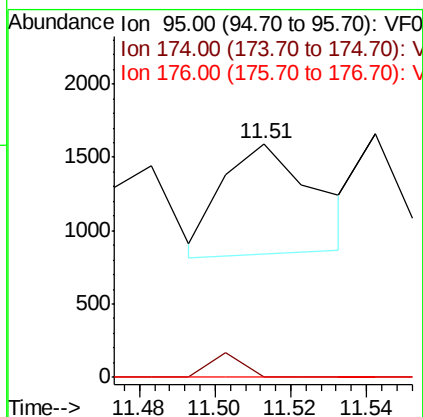
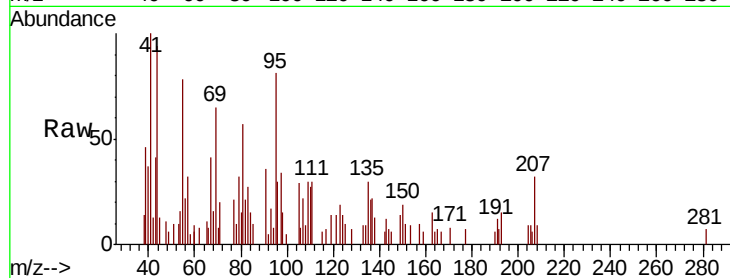




#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
RT: 11.51 min Scan# 1104
Delta R.T. 0.01 min
Lab File: VF060305.D
Acq: 20 Sep 2018 18:53

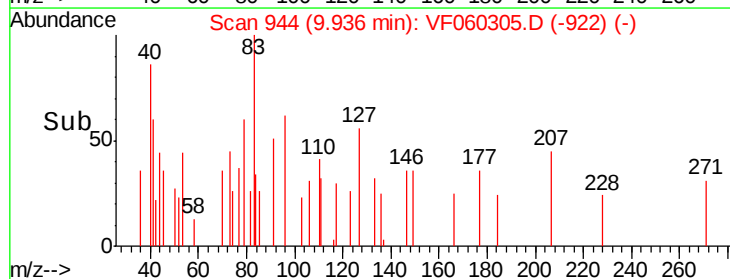
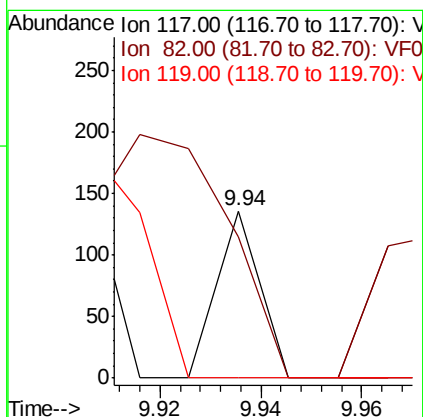
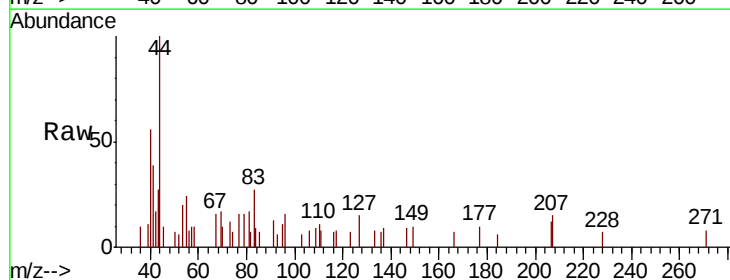
Instrument :
MSVOA_F
ClientSampled :
LS-SOIL-E

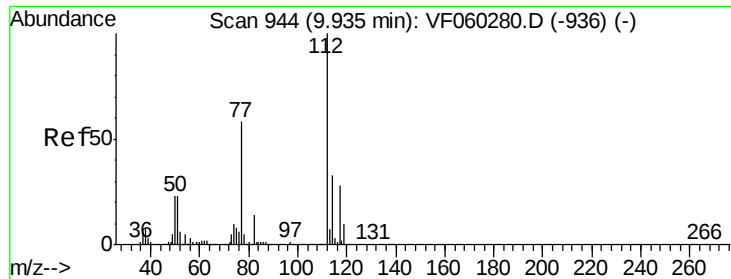
Tot Ion: 95 Resp: 1284
Ion Ratio Lower Upper
95 100
174 0.0 0.0 131.2
176 0.0 0.0 126.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.94 min Scan# 944
Delta R.T. 0.02 min
Lab File: VF060305.D
Acq: 20 Sep 2018 18:53

Tgt Ion: 117 Resp: 80
Ion Ratio Lower Upper
117 100
82 84.6 46.2 69.2#
119 0.0 27.8 41.6#

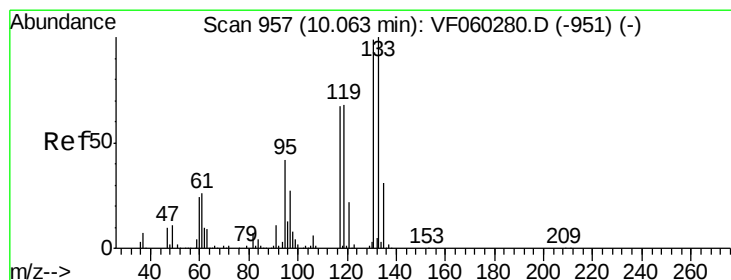
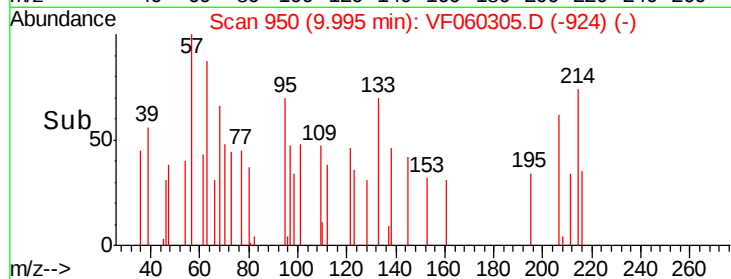
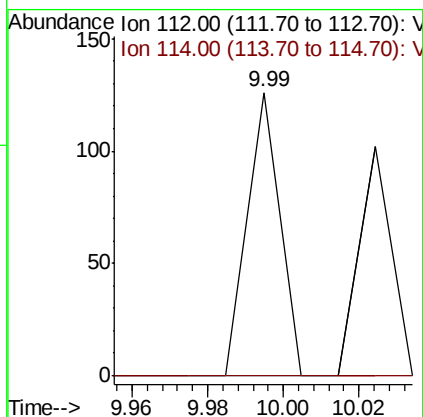
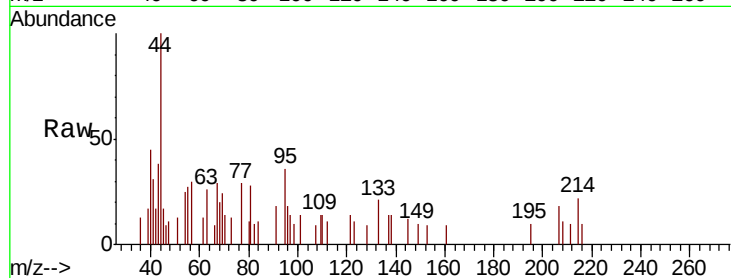




#65
Chlorobenzene
Concen: 41.364 ug/l
RT: 9.99 min Scan# 950
Delta R.T. 0.06 min
Lab File: VF060305.D
Acq: 20 Sep 2018 18:53

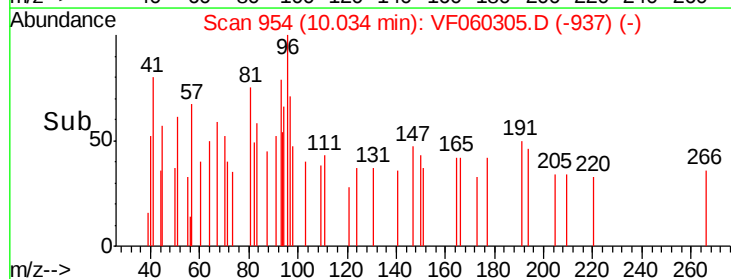
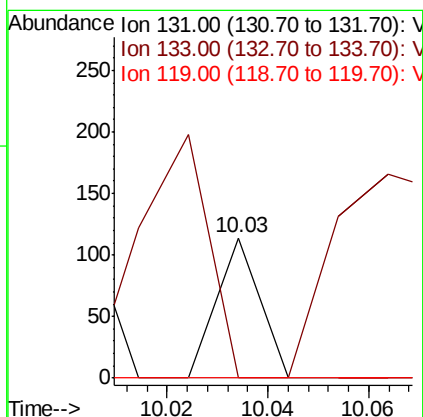
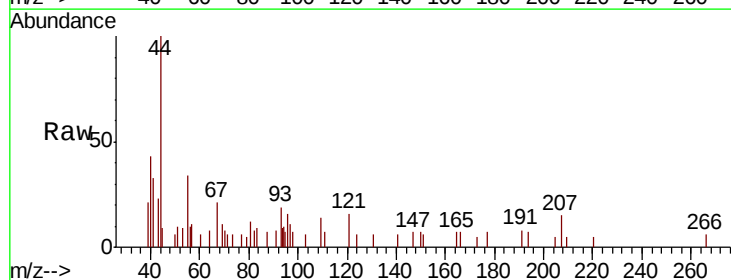
Instrument :
MSVOA_F
ClientSampled :
LS-SOIL-E

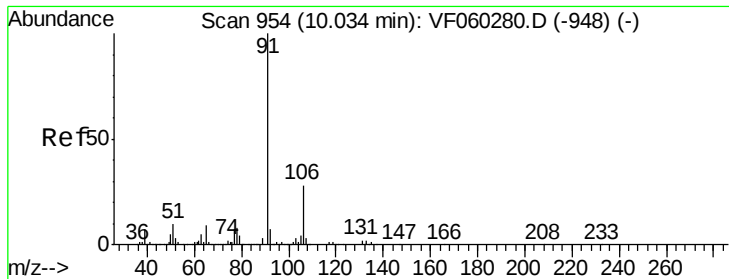
Tot Ion:112 Resp: 75
Ion Ratio Lower Upper
112 100
114 0.0 26.6 40.0#



#66
1,1,1,2-Tetrachloroethane
Concen: 89.042 ug/l
RT: 10.03 min Scan# 954
Delta R.T. -0.03 min
Lab File: VF060305.D
Acq: 20 Sep 2018 18:53

Tgt Ion:131 Resp: 67
Ion Ratio Lower Upper
131 100
133 0.0 50.4 151.2#
119 0.0 34.8 104.3#

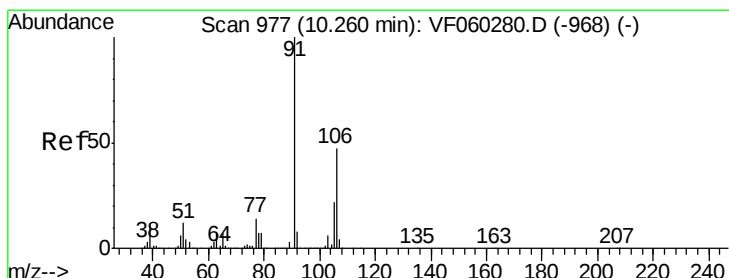
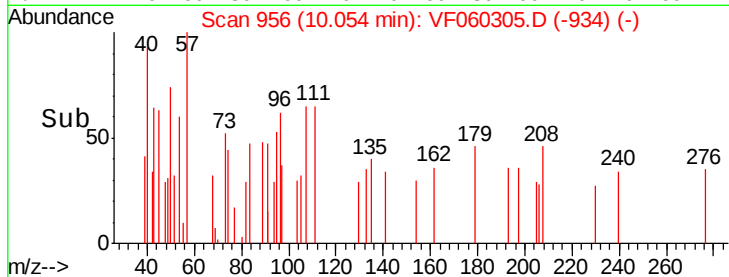
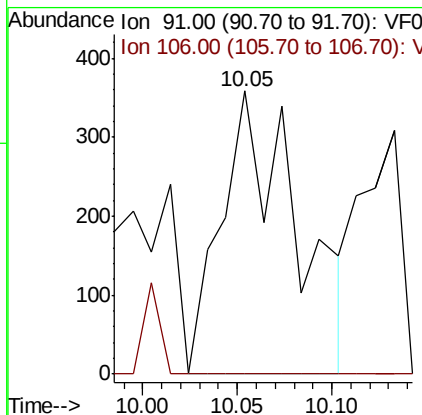
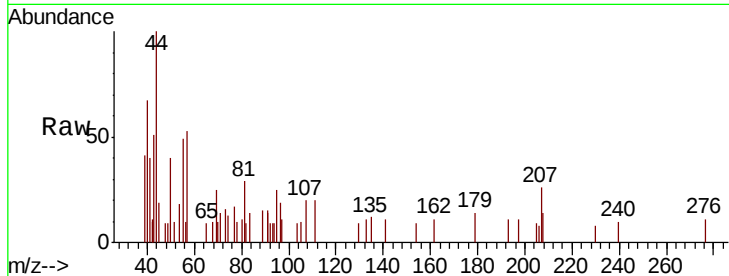




#67
Ethyl Benzene
Concen: 294.413 ug/l
RT: 10.05 min Scan# 956
Delta R.T. 0.02 min
Lab File: VF060305.D
Acq: 20 Sep 2018 18:53

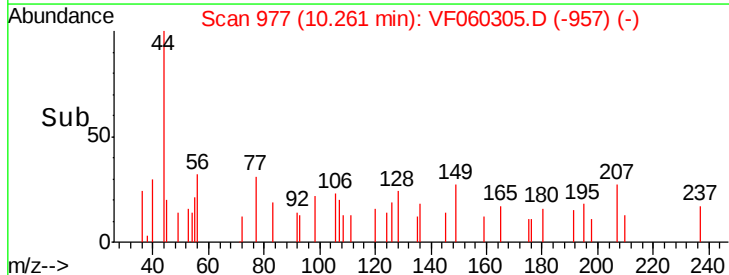
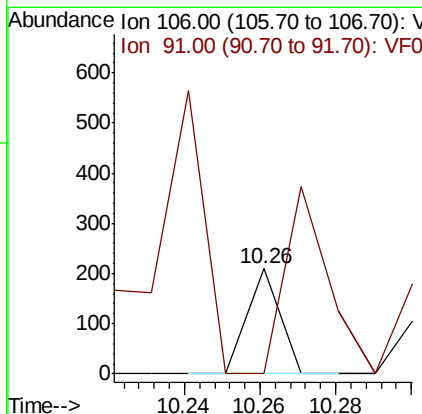
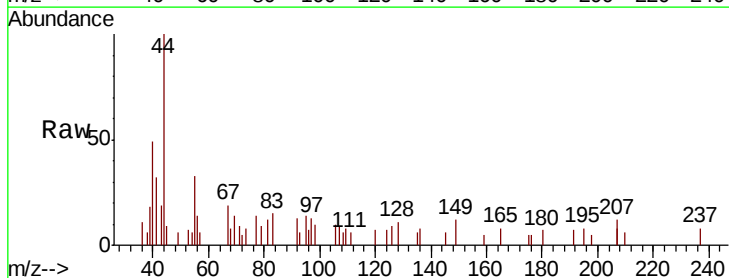
Instrument :
MSVOA_F
ClientSampled :
LS-SOIL-E

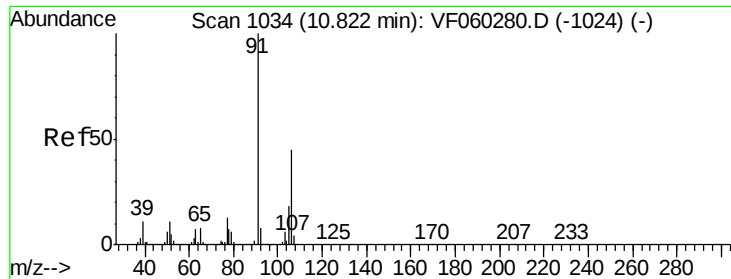
Tot Ion: 91 Resp: 987
Ion Ratio Lower Upper
91 100
106 0.0 22.7 34.1#



#68
m/p-Xylenes
Concen: 107.061 ug/l
RT: 10.26 min Scan# 977
Delta R.T. 0.00 min
Lab File: VF060305.D
Acq: 20 Sep 2018 18:53

Tgt Ion: 106 Resp: 124
Ion Ratio Lower Upper
106 100
91 0.0 172.3 258.5#

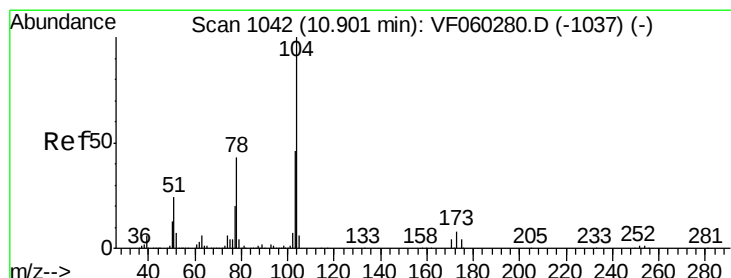
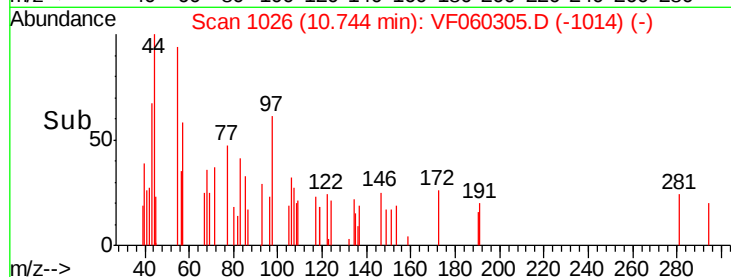
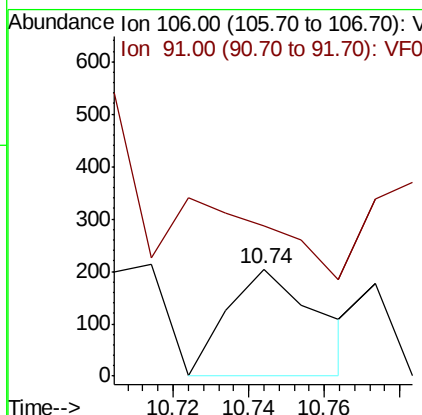
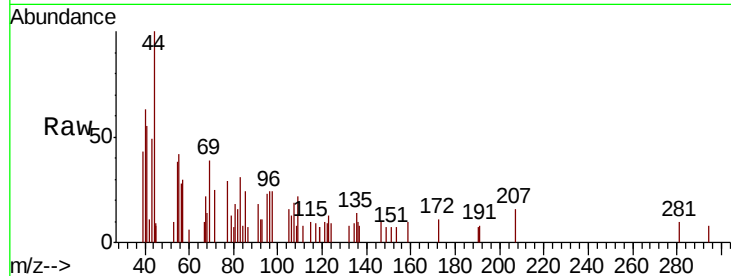




#69
o-Xylene
Concen: 261.720 ug/l
RT: 10.74 min Scan# 1026
Delta R.T. -0.08 min
Lab File: VF060305.D
Acq: 20 Sep 2018 18:53

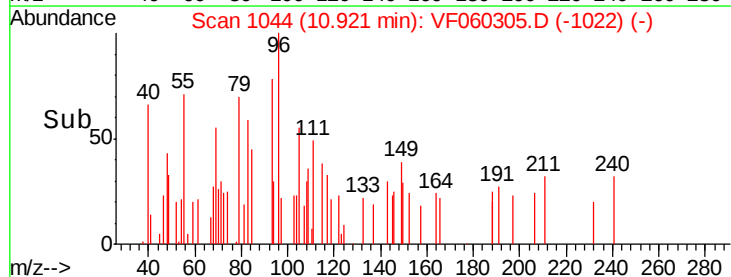
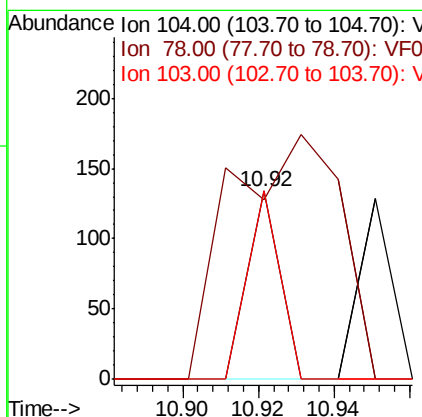
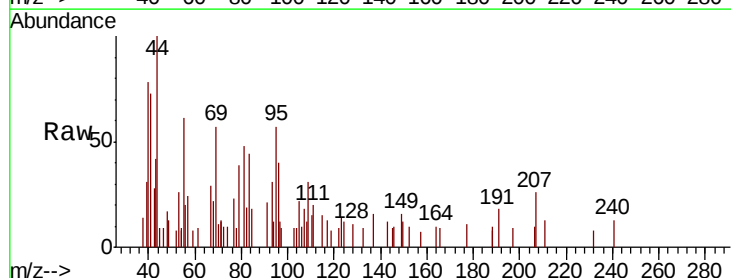
Instrument :
MSVOA_F
ClientSampled :
LS-SOIL-E

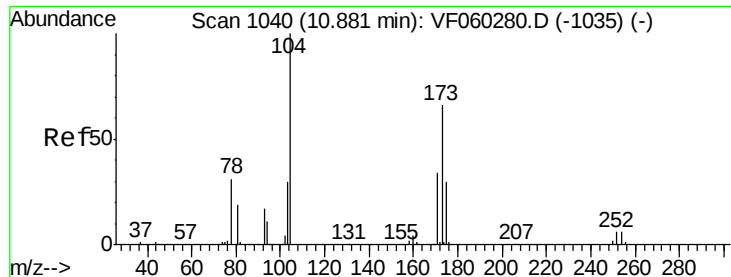
Tot Ion:106 Resp: 340
Ion Ratio Lower Upper
106 100
91 140.5 110.9 332.6



#70
Styrene
Concen: 43.120 ug/l
RT: 10.92 min Scan# 1044
Delta R.T. 0.02 min
Lab File: VF060305.D
Acq: 20 Sep 2018 18:53

Tgt Ion:104 Resp: 79
Ion Ratio Lower Upper
104 100
78 95.5 35.0 52.6#
103 100.0 37.4 56.0#





#71

Bromoform

Concen: 166.970 ug/l

RT: 10.93 min Scan# 1045

Delta R.T. 0.05 min

Lab File: VF060305.D

Acq: 20 Sep 2018 18:53

Instrument :

MSVOA_F

ClientSampleId :

LS-SOIL-E

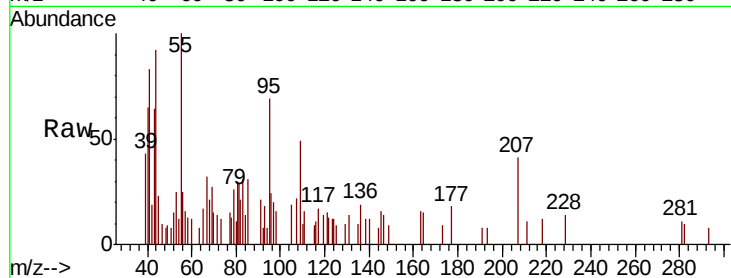
Tot Ion:173 Resp: 69

Ion Ratio Lower Upper

173 100

175 0.0 22.3 66.9#

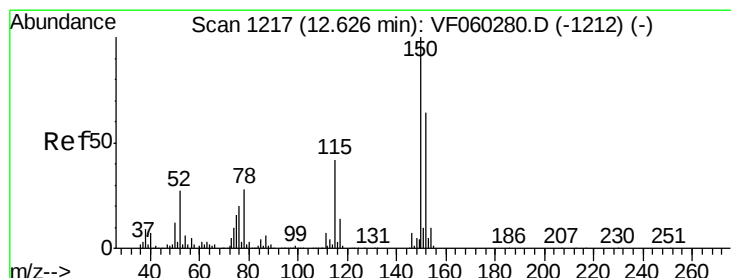
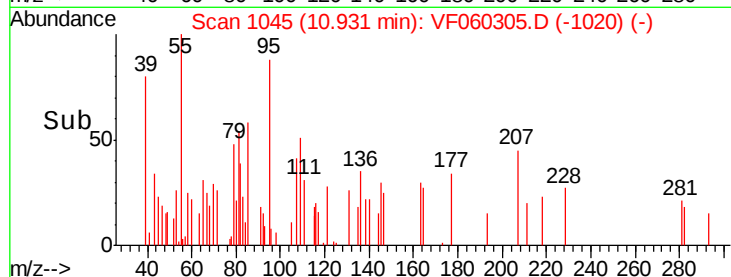
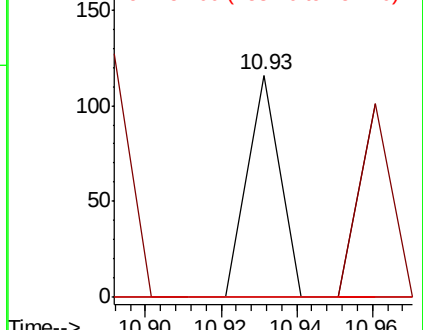
254 0.0 0.0 0.0



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.65 min Scan# 1219

Delta R.T. 0.02 min

Lab File: VF060305.D

Acq: 20 Sep 2018 18:53

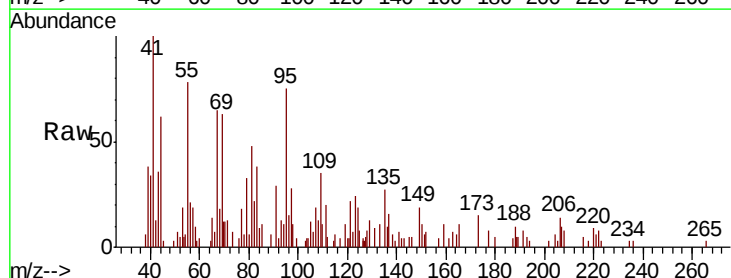
Tgt Ion:152 Resp: 148

Ion Ratio Lower Upper

152 100

115 83.6 32.6 97.8

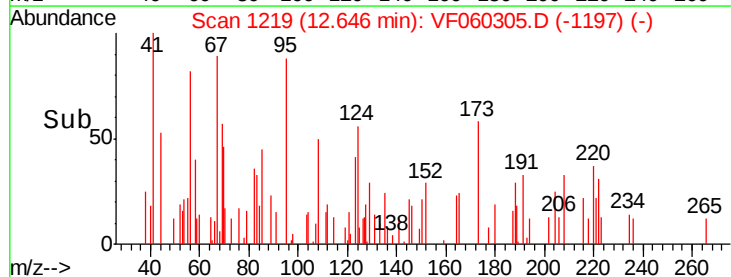
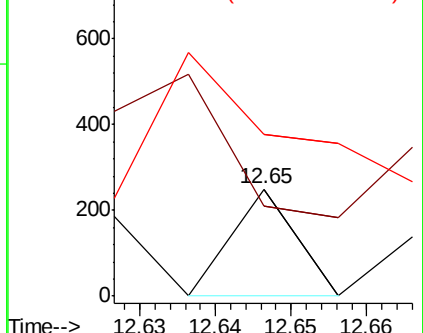
150 150.8 0.0 314.2

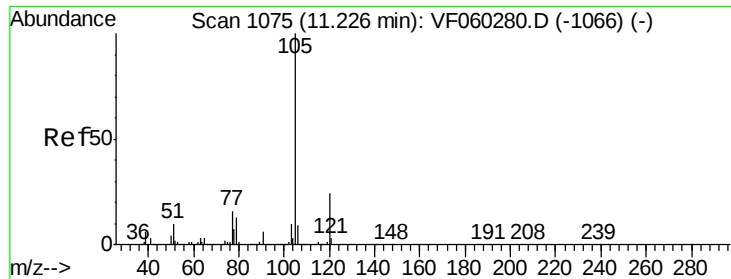


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 53.438 ug/l

RT: 11.13 min Scan# 1065

Delta R.T. -0.10 min

Lab File: VF060305.D

Acq: 20 Sep 2018 18:53

Instrument :

MSVOA_F

ClientSampled :

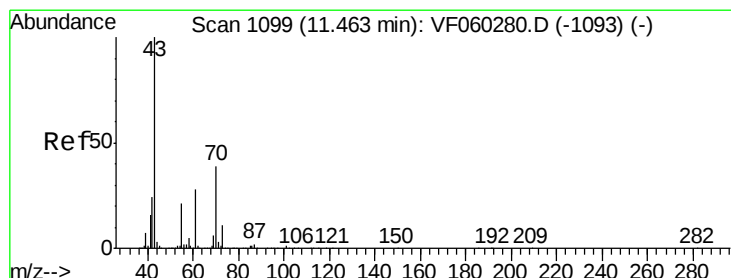
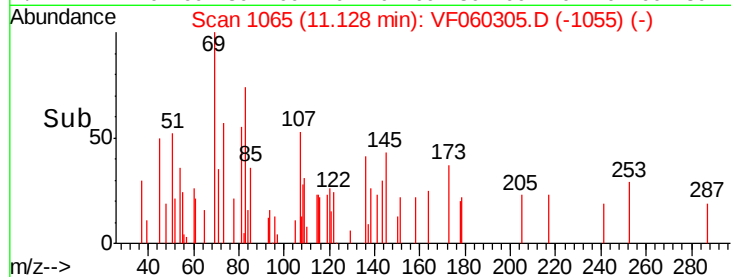
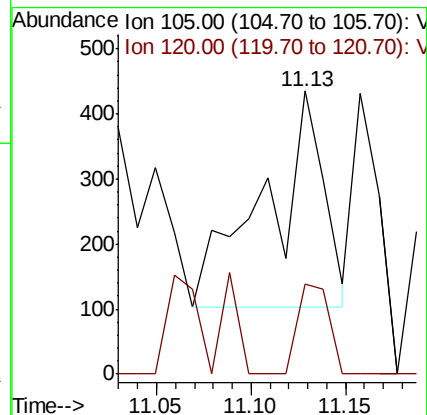
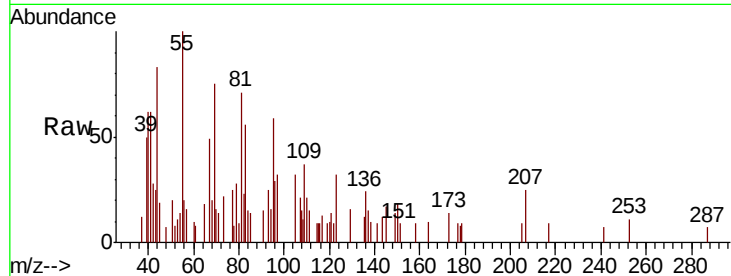
LS-SOIL-E

Tot Ion:105 Resp: 710

Ion Ratio Lower Upper

105 100

120 31.7 12.2 36.6



#74

N-ethyl acetate

Concen: 189.888 ug/l

RT: 11.48 min Scan# 1101

Delta R.T. 0.02 min

Lab File: VF060305.D

Acq: 20 Sep 2018 18:53

Tgt Ion: 43 Resp: 538

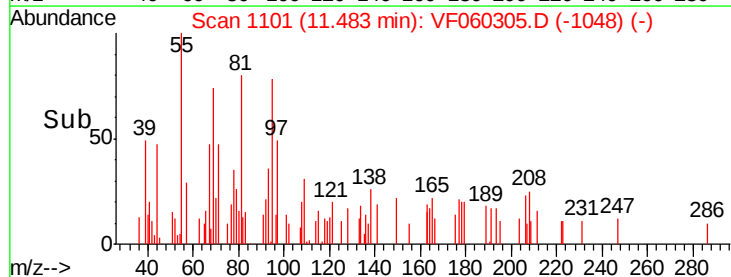
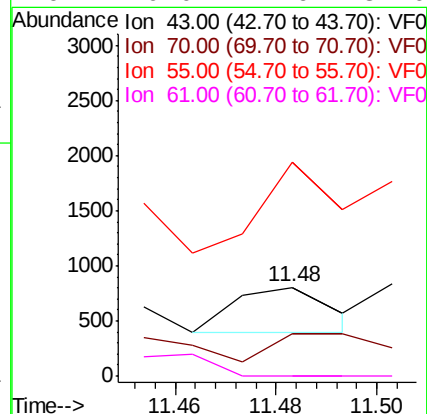
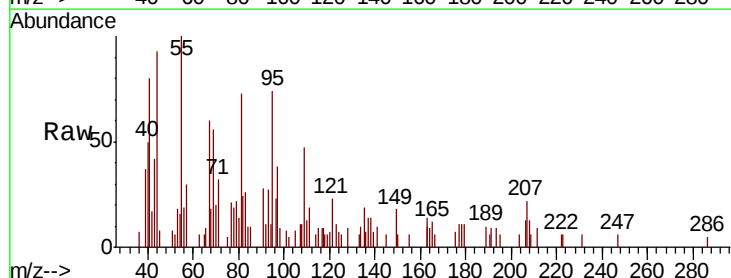
Ion Ratio Lower Upper

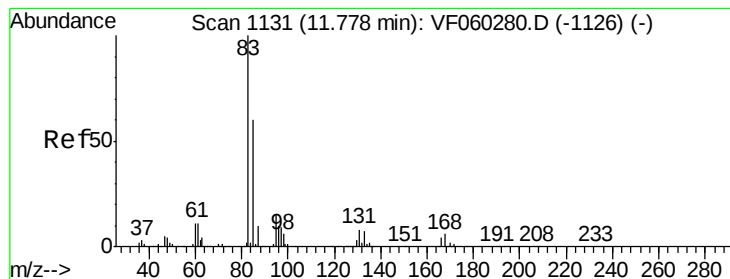
43 100

70 48.0 31.4 47.2#

55 240.3 16.8 25.2#

61 0.0 22.6 34.0#





#75

1,1,2,2-Tetrachloroethane

Concen: 229.759 ug/l

RT: 11.77 min Scan# 1130

Delta R.T. -0.01 min

Lab File: VF060305.D

Acq: 20 Sep 2018 18:53

Instrument :

MSVOA_F

ClientSampled :

LS-SOIL-E

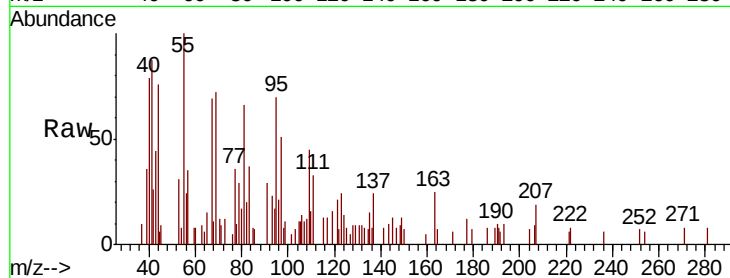
Tot Ion: 83 Resp: 541

Ion Ratio Lower Upper

83 100

131 23.0 4.2 12.4#

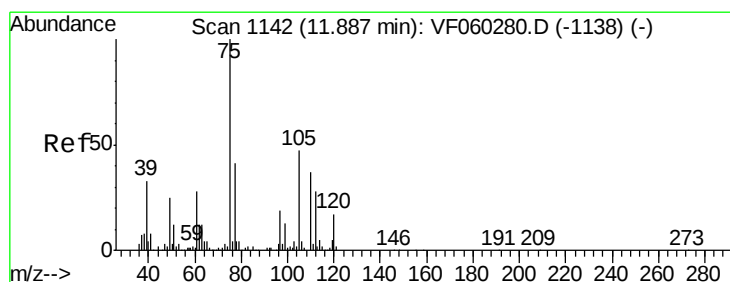
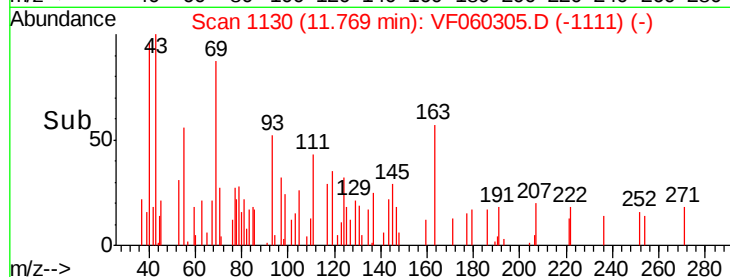
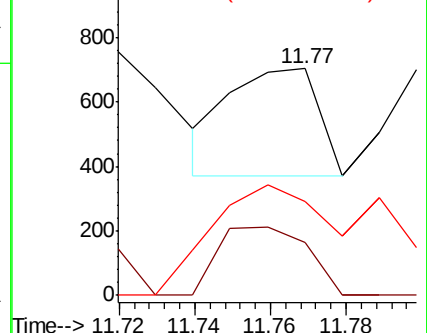
85 41.2 30.1 90.5



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 35.588 ug/l

RT: 11.86 min Scan# 1139

Delta R.T. -0.03 min

Lab File: VF060305.D

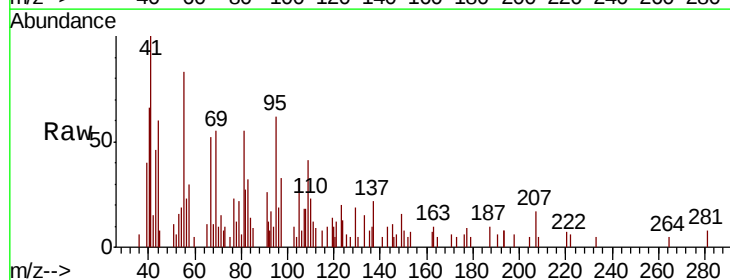
Acq: 20 Sep 2018 18:53

Tgt Ion: 75 Resp: 60

Ion Ratio Lower Upper

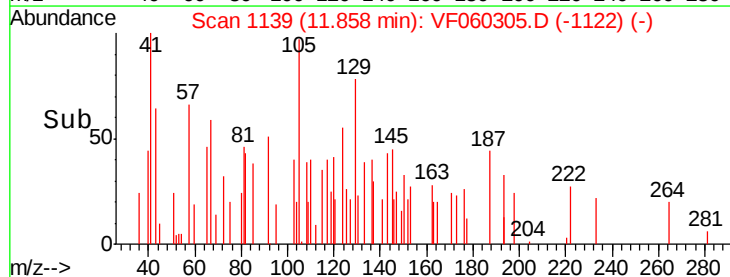
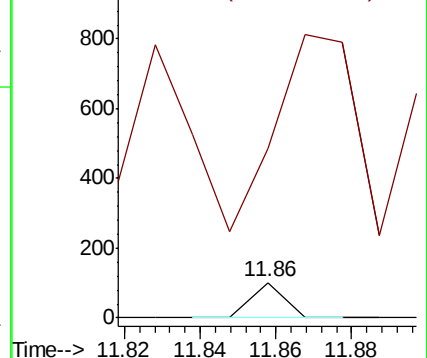
75 100

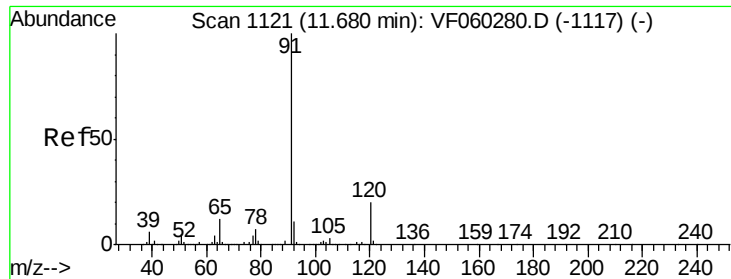
77 480.2 20.5 61.5#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#78

n-propylbenzene

Concen: 73.498 ug/l

RT: 11.73 min Scan# 1126

Delta R.T. 0.05 min

Lab File: VF060305.D

Acq: 20 Sep 2018 18:53

Instrument :

MSVOA_F

ClientSampleId :

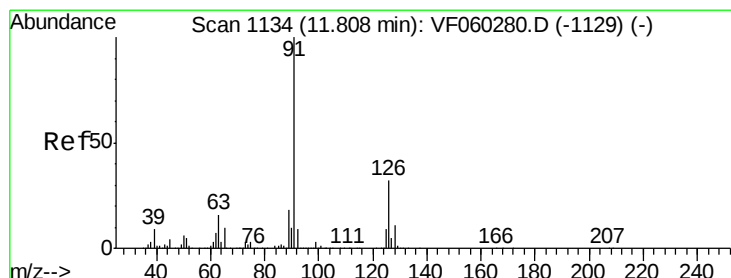
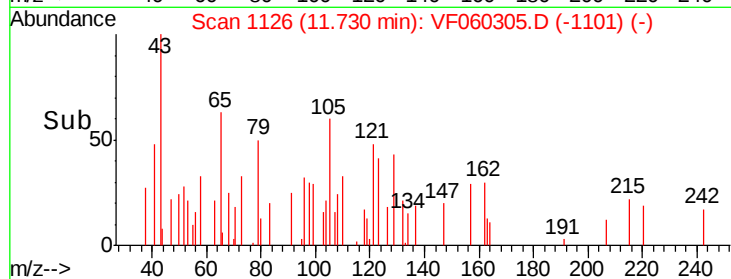
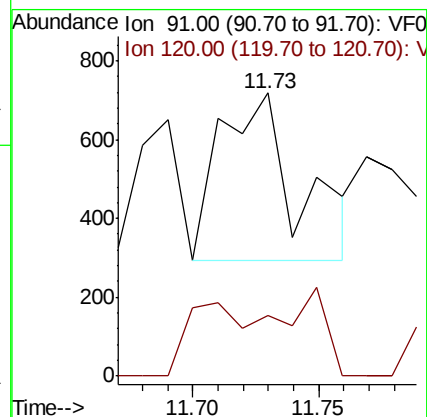
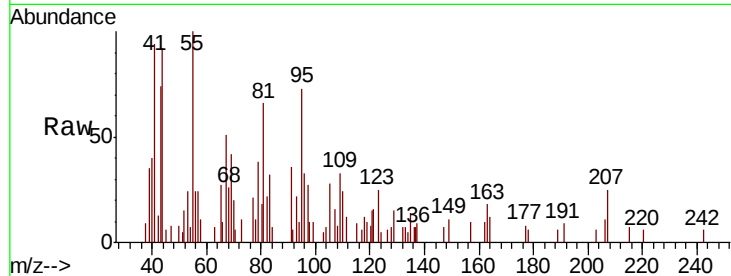
LS-SOIL-E

Tot Ion: 91.00 Resp: 911

Ion Ratio Lower Upper

91 100

120 21.3 10.0 29.8



#79

2-Chlorotoluene

Concen: 101.648 ug/l

RT: 11.73 min Scan# 1126

Delta R.T. -0.08 min

Lab File: VF060305.D

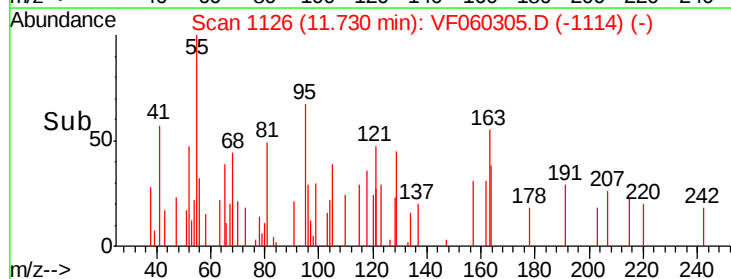
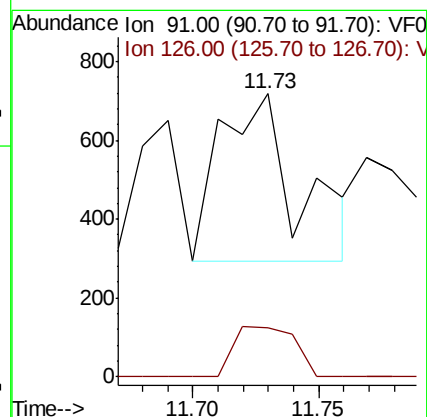
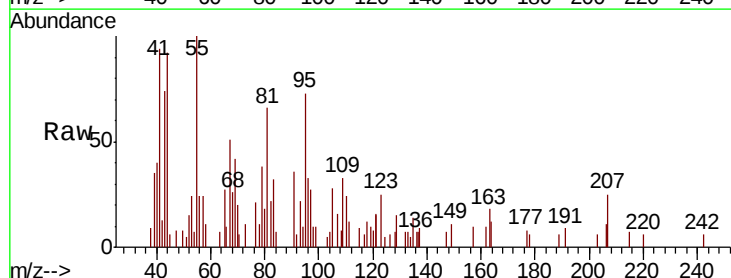
Acq: 20 Sep 2018 18:53

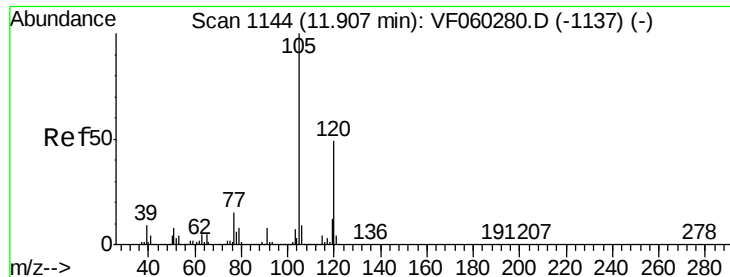
Tgt Ion: 91 Resp: 911

Ion Ratio Lower Upper

91 100

126 17.1 16.1 48.3





#80

1,3,5-Trimethylbenzene

Concen: 69.284 ug/l

RT: 11.91 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VF060305.D

Acq: 20 Sep 2018 18:53

Instrument :

MSVOA_F

ClientSampled :

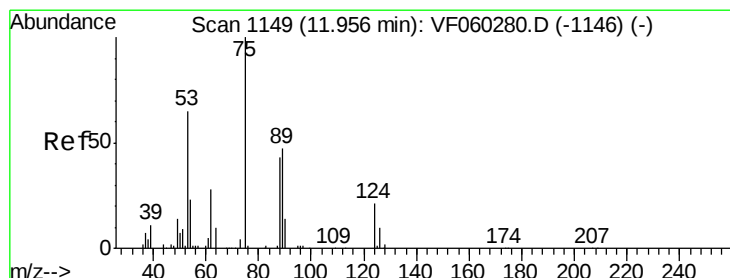
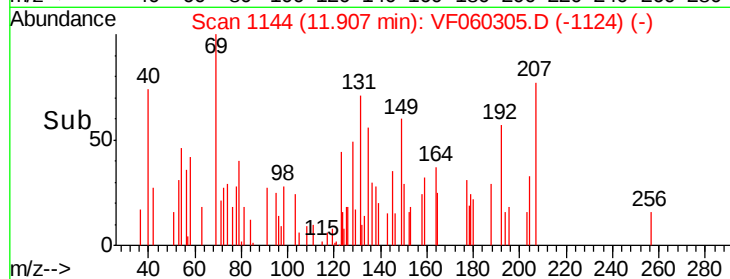
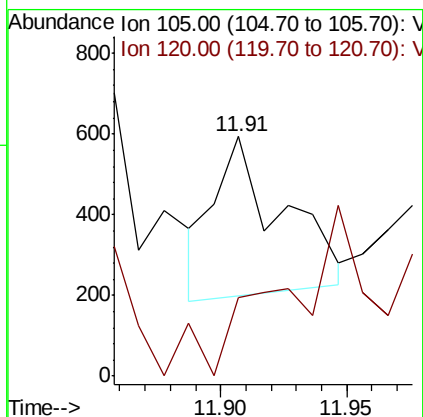
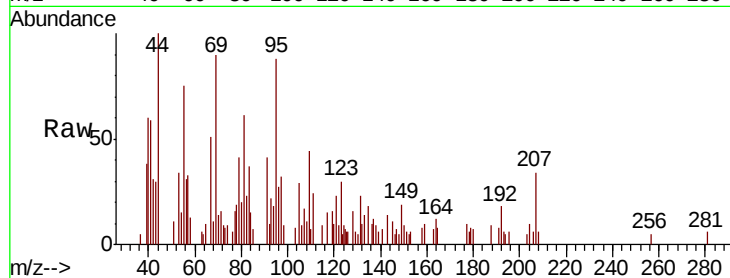
LS-SOIL-E

Tot Ion:105 Resp: 741

Ion Ratio Lower Upper

105 100

120 32.7 24.4 73.2



#81

trans-1,4-Dichloro-2-butene

Concen: 147.029 ug/l

RT: 11.95 min Scan# 1148

Delta R.T. -0.01 min

Lab File: VF060305.D

Acq: 20 Sep 2018 18:53

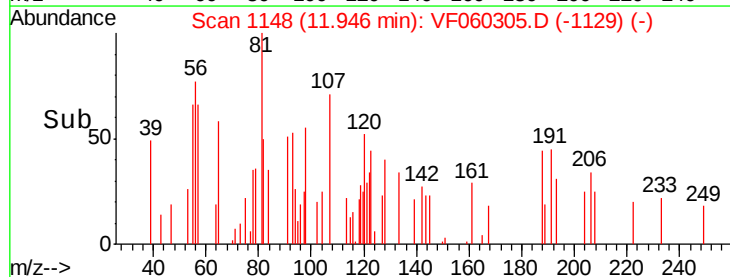
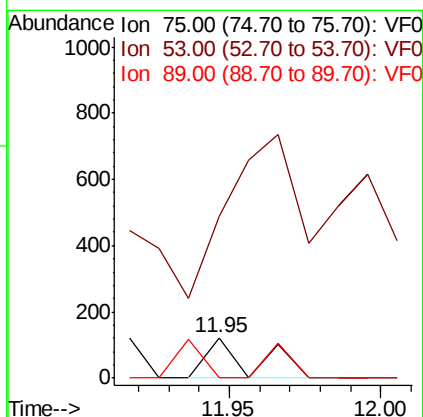
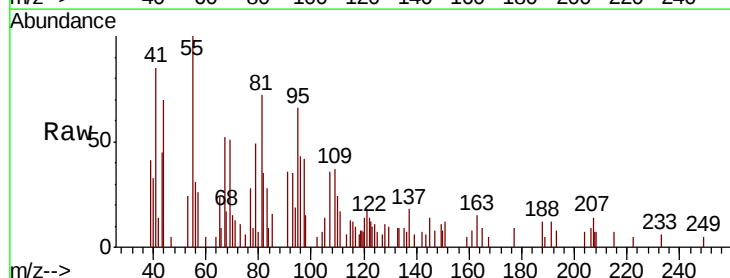
Tgt Ion: 75 Resp: 131

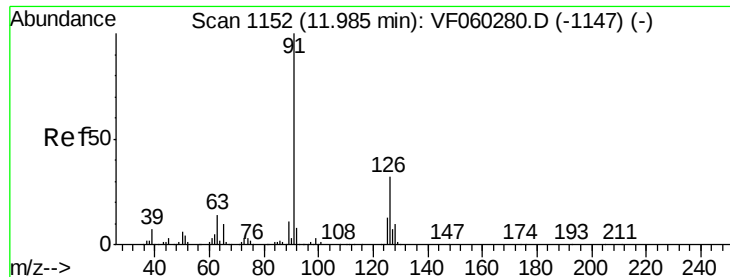
Ion Ratio Lower Upper

75 100

53 405.0 56.5 84.7#

89 0.0 40.6 60.8#

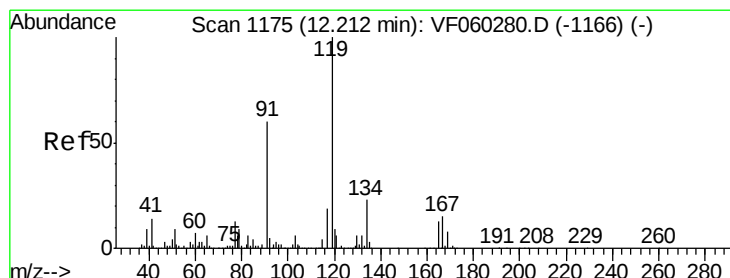
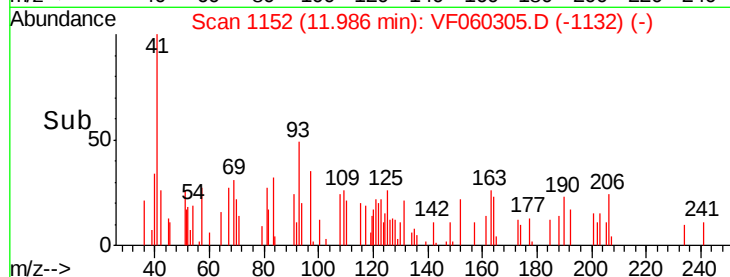
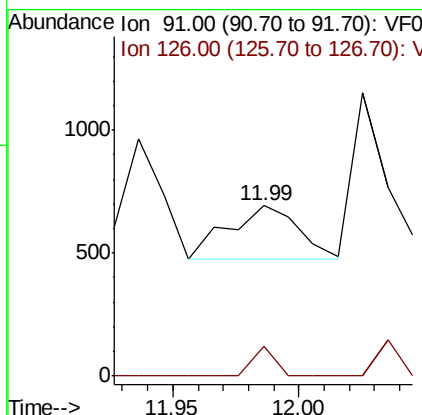
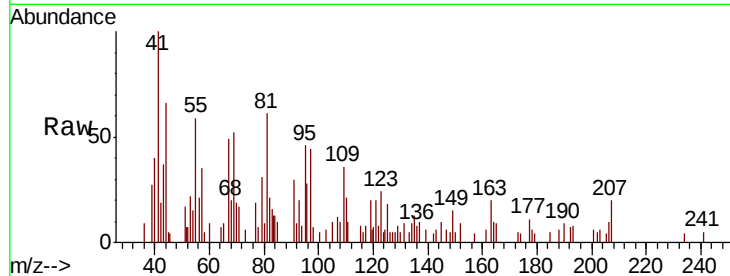




#82
4-Chlorotoluene
Concen: 46.847 ug/l
RT: 11.99 min Scan# 1152
Delta R.T. 0.00 min
Lab File: VF060305.D
Acq: 20 Sep 2018 18:53

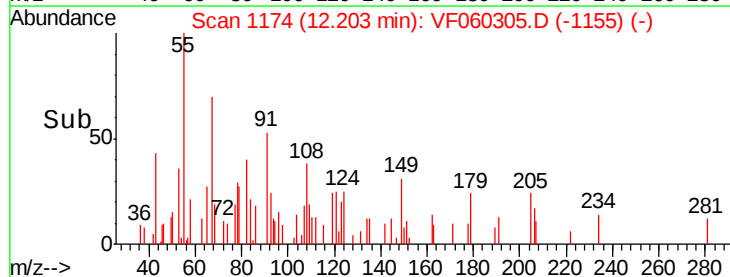
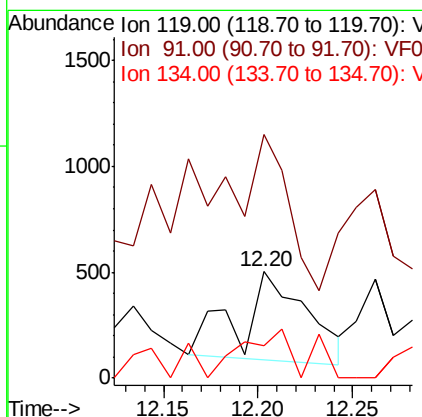
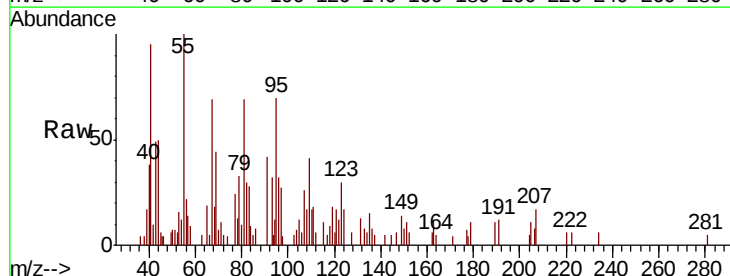
Instrument :
MSVOA_F
ClientSampled :
LS-SOIL-E

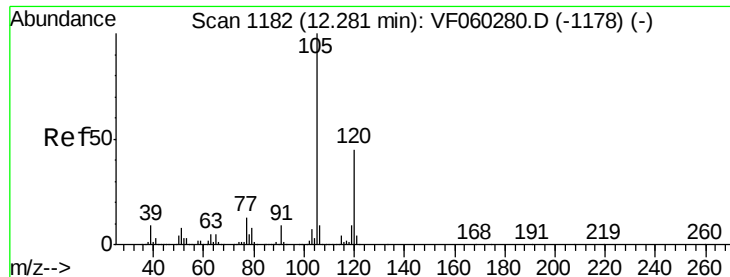
Tot Ion: 91 Resp: 422
Ion Ratio Lower Upper
91 100
126 17.2 16.1 48.2



#83
tert-Butylbenzene
Concen: 95.188 ug/l
RT: 12.20 min Scan# 1174
Delta R.T. -0.01 min
Lab File: VF060305.D
Acq: 20 Sep 2018 18:53

Tgt Ion: 119 Resp: 1032
Ion Ratio Lower Upper
119 100
91 229.3 30.3 91.0#
134 30.3 11.6 34.8

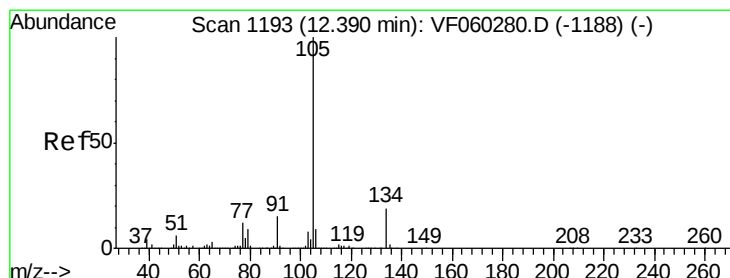
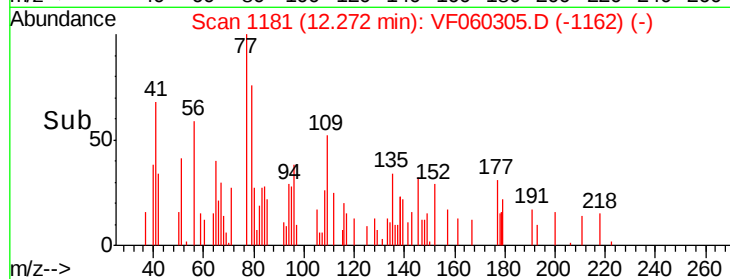
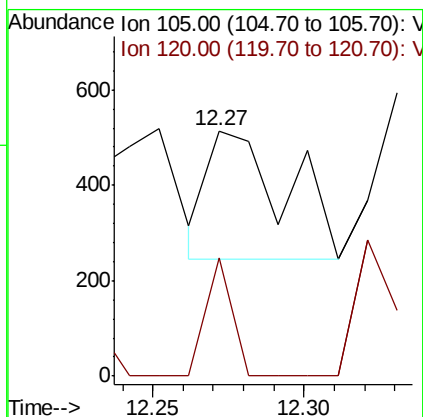
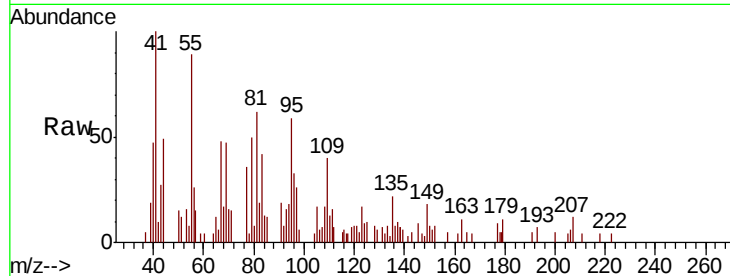




#84
 1,2,4-Trimethylbenzene
 Concen: 44.290 ug/l
 RT: 12.27 min Scan# 1181
 Delta R.T. -0.01 min
 Lab File: VF060305.D
 Acq: 20 Sep 2018 18:53

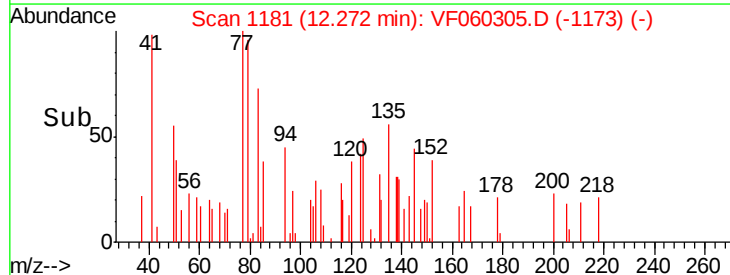
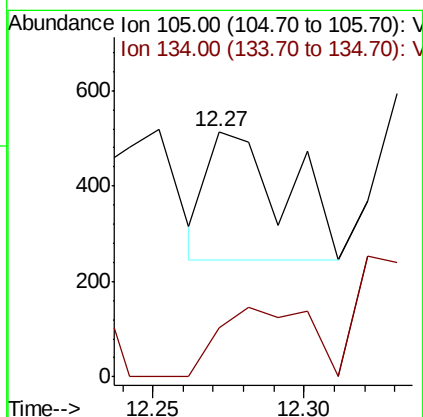
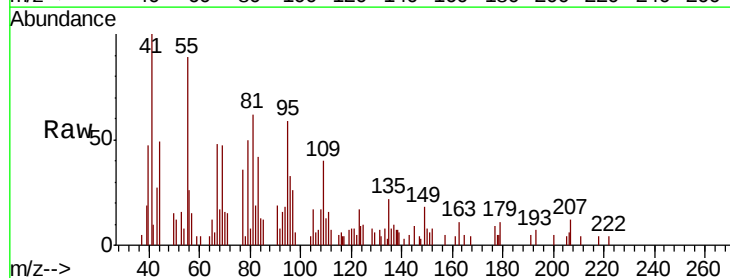
Instrument :
 MSVOA_F
 ClientSampleId :
 LS-SOIL-E

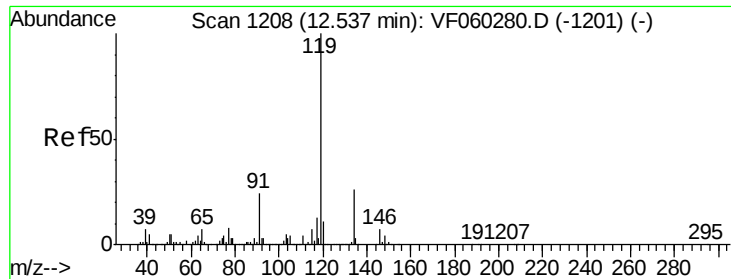
Tot Ion:105 Resp: 481
 Ion Ratio Lower Upper
 105 100
 120 48.1 22.4 67.0



#85
 sec-Butylbenzene
 Concen: 35.714 ug/l
 RT: 12.27 min Scan# 1181
 Delta R.T. -0.12 min
 Lab File: VF060305.D
 Acq: 20 Sep 2018 18:53

Tgt Ion:105 Resp: 481
 Ion Ratio Lower Upper
 105 100
 134 19.8 9.6 28.6

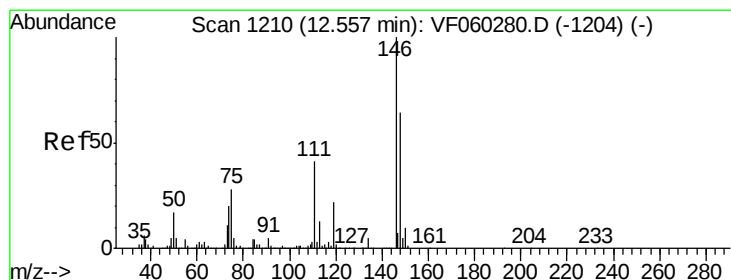
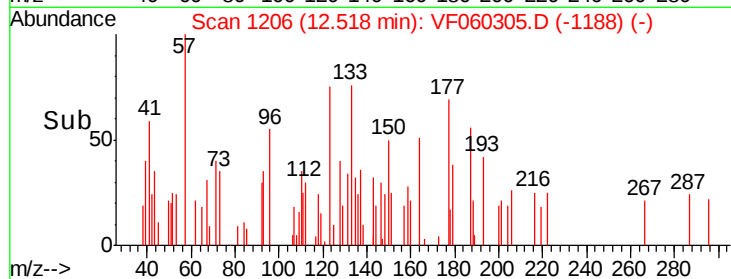
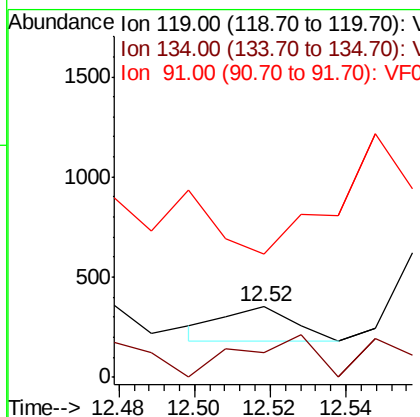
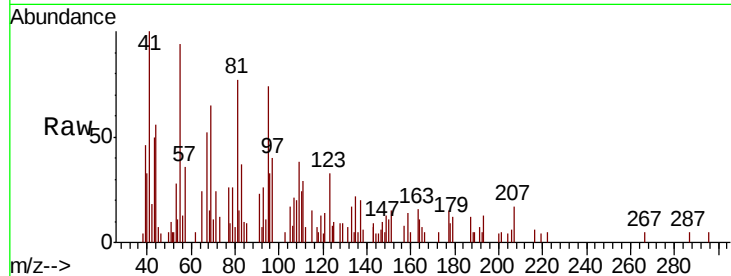




#86
p-Isopropyltoluene
Concen: 16.031 ug/l
RT: 12.52 min Scan# 1206
Delta R.T. -0.02 min
Lab File: VF060305.D
Acq: 20 Sep 2018 18:53

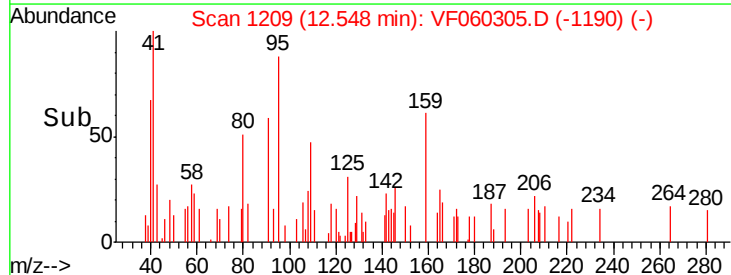
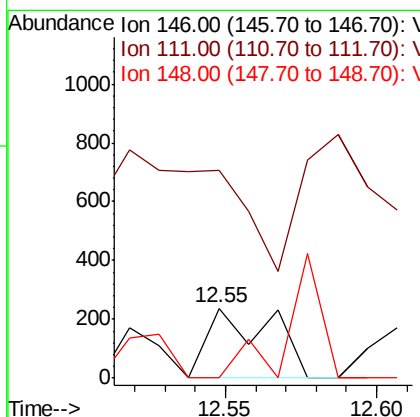
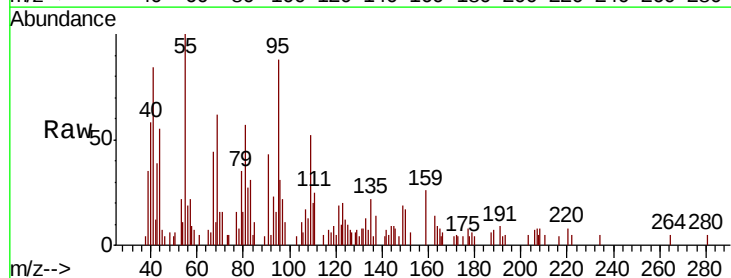
Instrument :
MSVOA_F
ClientSampleId :
LS-SOIL-E

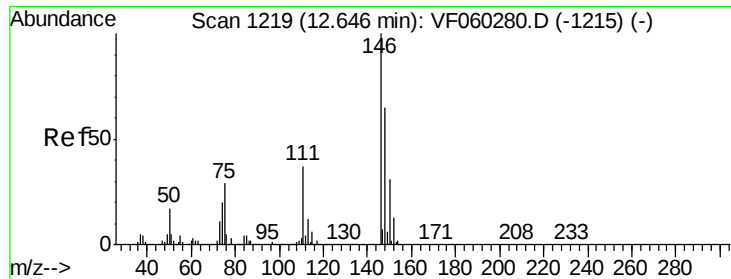
Tot Ion:119 Resp: 216
Ion Ratio Lower Upper
119 100
134 34.3 12.9 38.7
91 174.5 11.9 35.7#



#87
1,3-Dichlorobenzene
Concen: 64.478 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.01 min
Lab File: VF060305.D
Acq: 20 Sep 2018 18:53

Tgt Ion:146 Resp: 345
Ion Ratio Lower Upper
146 100
111 297.5 20.5 61.6#
148 0.0 32.2 96.6#

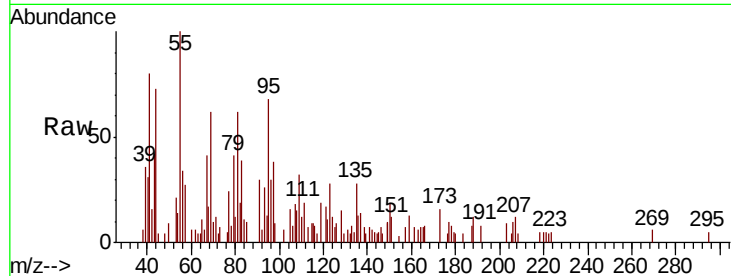




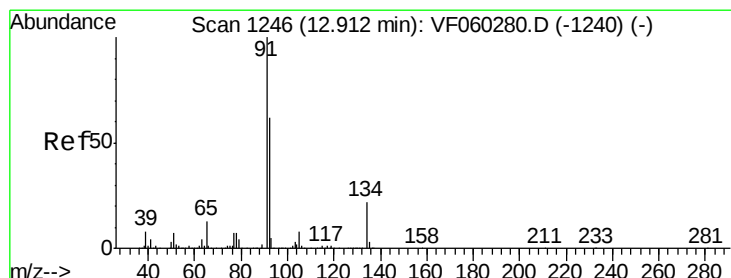
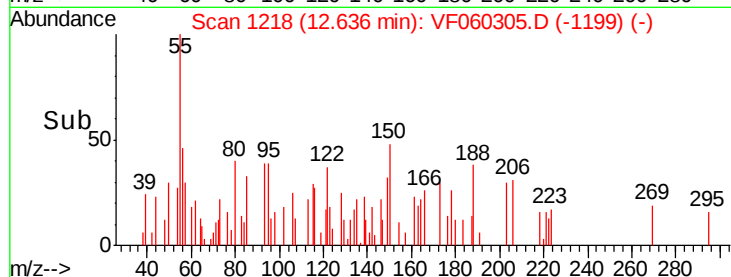
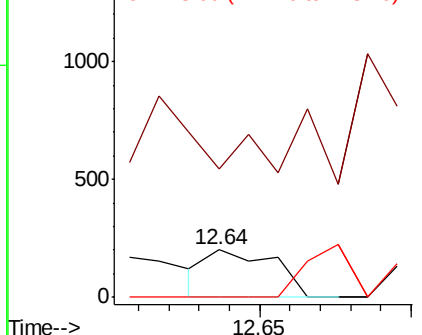
#88
 1,4-Dichlorobenzene
 Concen: 58.806 ug/l
 RT: 12.64 min Scan# 1218
 Delta R.T. -0.01 min
 Lab File: VF060305.D
 Acq: 20 Sep 2018 18:53

Instrument :
 MSVOA_F
 ClientSampled :
 LS-SOIL-E

Tot Ion:146 Resp: 311
 Ion Ratio Lower Upper
 146 100
 111 175.7 18.7 56.1#
 148 0.0 32.4 97.0#

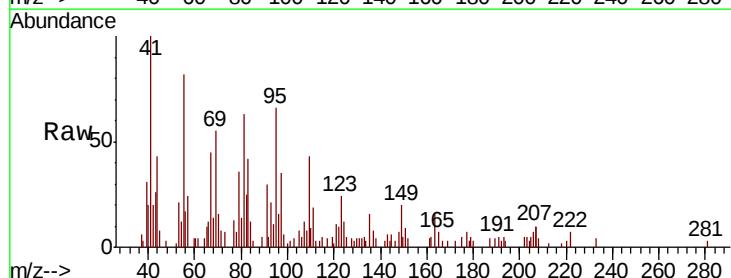


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

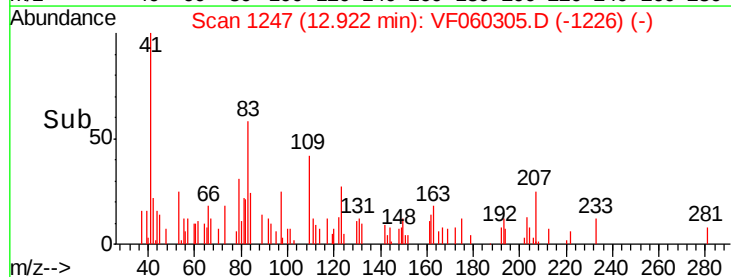
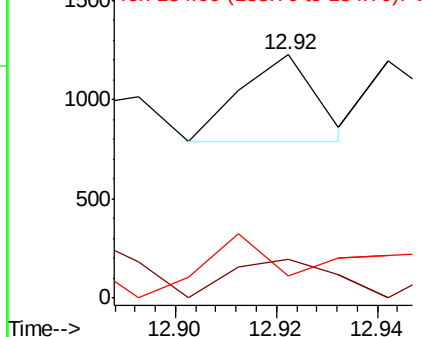


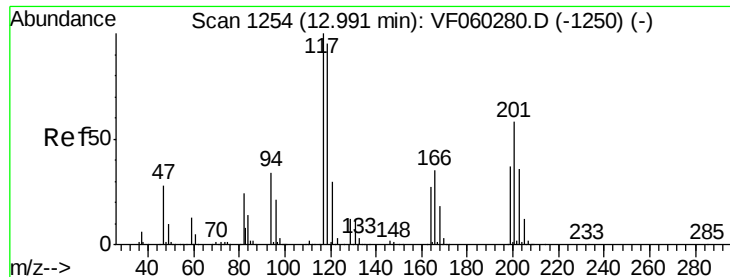
#89
 n-Butylbenzene
 Concen: 38.201 ug/l
 RT: 12.92 min Scan# 1247
 Delta R.T. 0.01 min
 Lab File: VF060305.D
 Acq: 20 Sep 2018 18:53

Tgt Ion: 91 Resp: 451
 Ion Ratio Lower Upper
 91 100
 92 15.8 31.1 93.5#
 134 9.2 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: 127.563 ug/l

RT: 13.03 min Scan# 1258

Delta R.T. 0.04 min

Lab File: VF060305.D

Acq: 20 Sep 2018 18:53

Instrument :

MSVOA_F

ClientSampled :

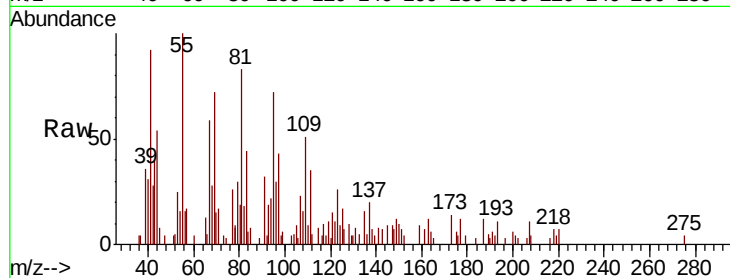
LS-SOIL-E

Tot Ion:117 Resp: 387

Ion Ratio Lower Upper

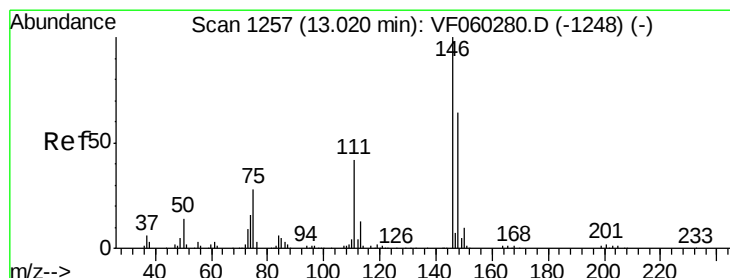
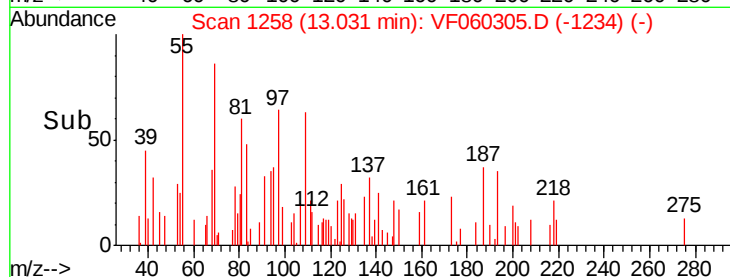
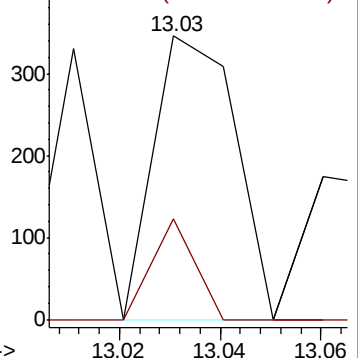
117 100

201 35.5 29.0 87.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V



#91

1,2-Dichlorobenzene

Concen: 68.180 ug/l

RT: 13.05 min Scan# 1260

Delta R.T. 0.03 min

Lab File: VF060305.D

Acq: 20 Sep 2018 18:53

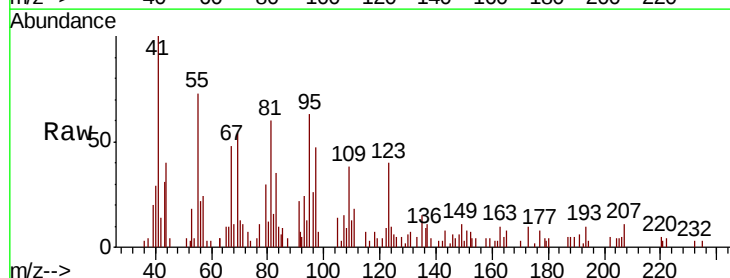
Tgt Ion:146 Resp: 348

Ion Ratio Lower Upper

146 100

111 174.7 20.9 62.8#

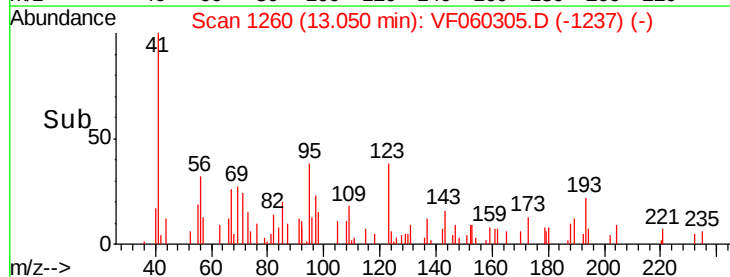
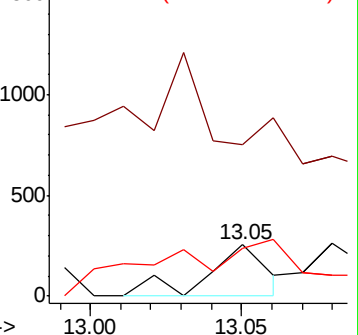
148 55.8 31.9 95.9

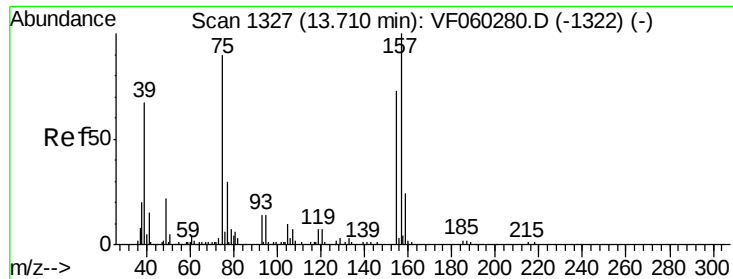


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

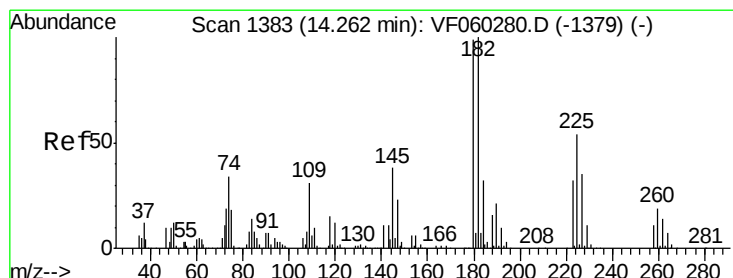
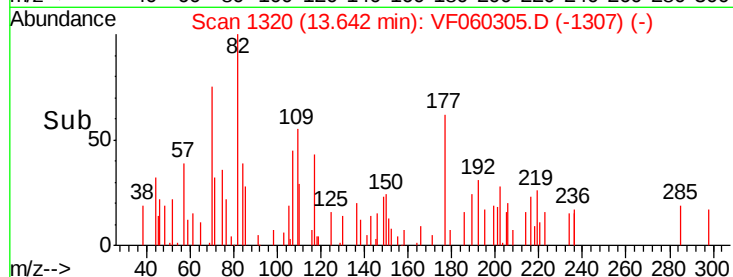
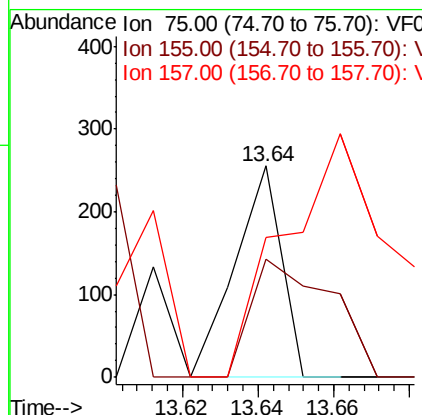
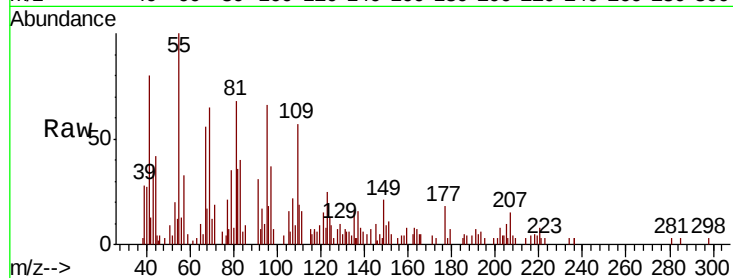




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 486.329 ug/l
 RT: 13.64 min Scan# 1320
 Delta R.T. -0.07 min
 Lab File: VF060305.D
 Acq: 20 Sep 2018 18:53

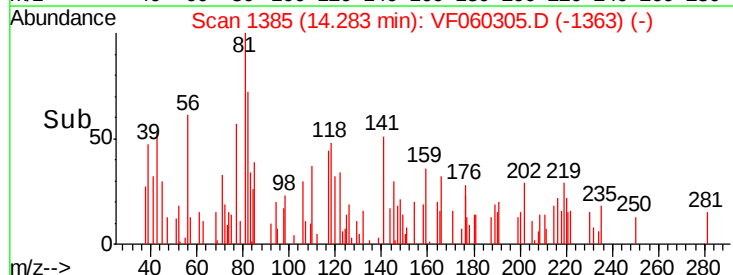
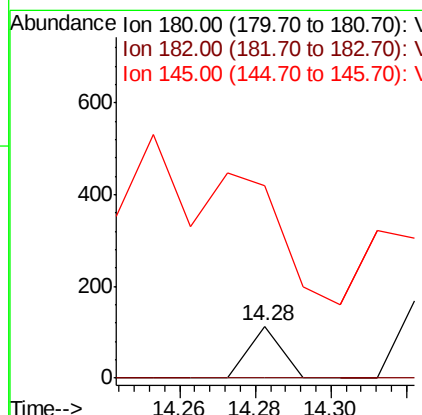
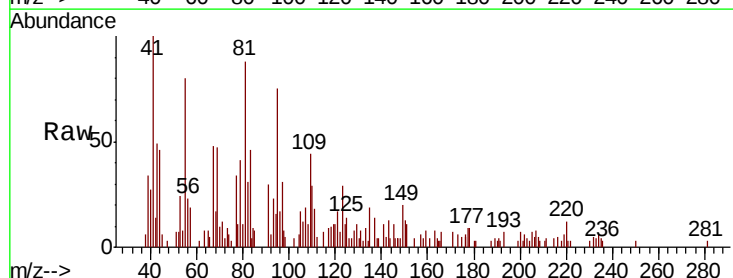
Instrument :
 MSVOA_F
 ClientSampleId :
 LS-SOIL-E

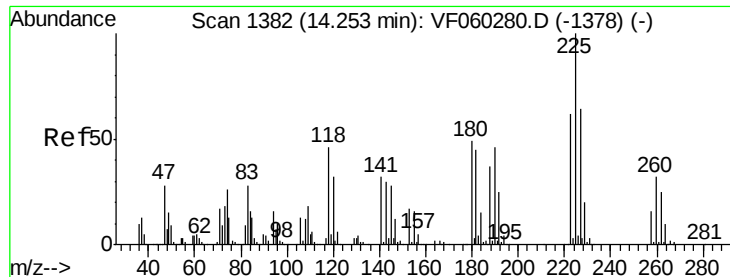
Tot Ion: 75 Resp: 215
 Ion Ratio Lower Upper
 75 100
 155 56.1 41.9 125.7
 157 66.3 57.4 172.0



#93
 1,2,4-Trichlorobenzene
 Concen: 18.060 ug/l
 RT: 14.28 min Scan# 1385
 Delta R.T. 0.02 min
 Lab File: VF060305.D
 Acq: 20 Sep 2018 18:53

Tgt Ion: 180 Resp: 67
 Ion Ratio Lower Upper
 180 100
 182 0.0 50.3 151.0#
 145 371.7 18.9 56.9#





#94

Hexachlorobutadiene

Concen: 31.899 ug/l

RT: 14.27 min Scan# 1384

Delta R.T. 0.02 min

Lab File: VF060305.D

Acq: 20 Sep 2018 18:53

Instrument :

MSVOA_F

ClientSampleId :

LS-SOIL-E

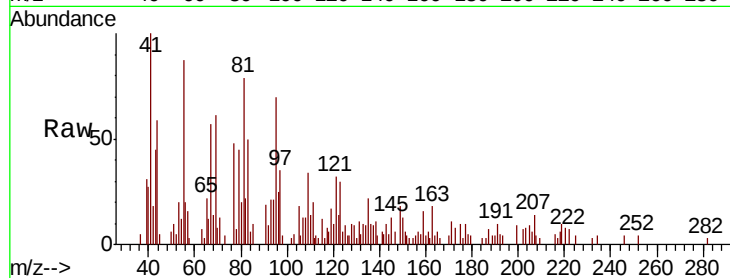
Tot Ion:225 Resp: 80

Ion Ratio Lower Upper

225 100

223 0.0 31.2 93.6#

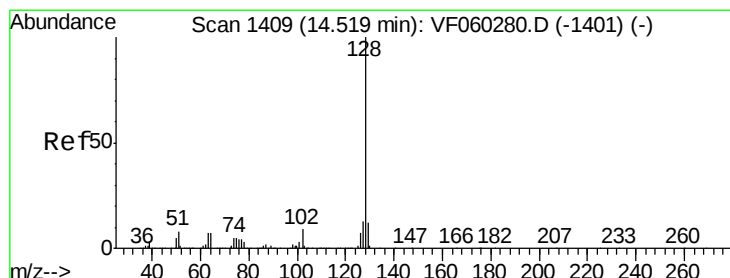
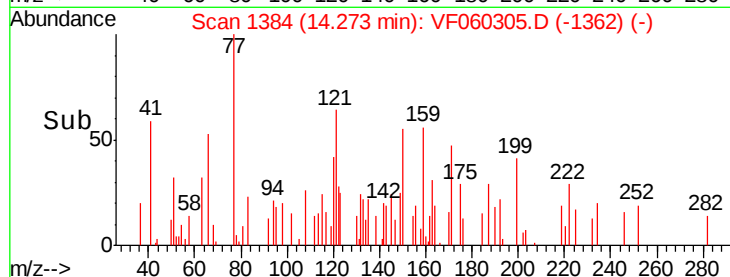
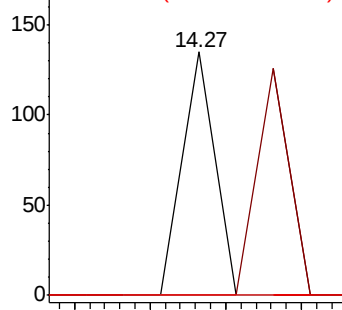
227 0.0 32.2 96.6#



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: 117.613 ug/l

RT: 14.54 min Scan# 1411

Delta R.T. 0.02 min

Lab File: VF060305.D

Acq: 20 Sep 2018 18:53

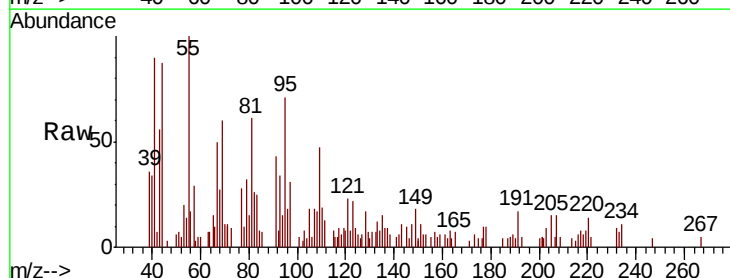
Tgt Ion:128 Resp: 765

Ion Ratio Lower Upper

128 100

127 34.9 10.1 15.1#

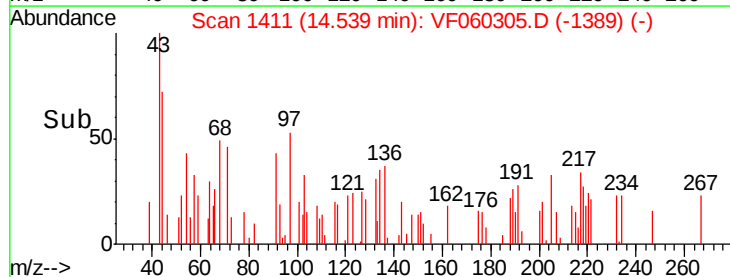
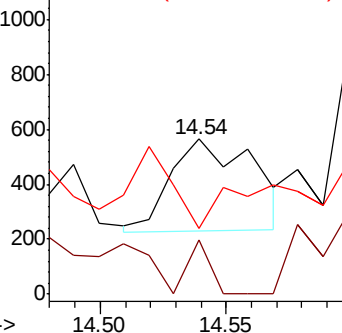
129 42.4 9.8 14.8#

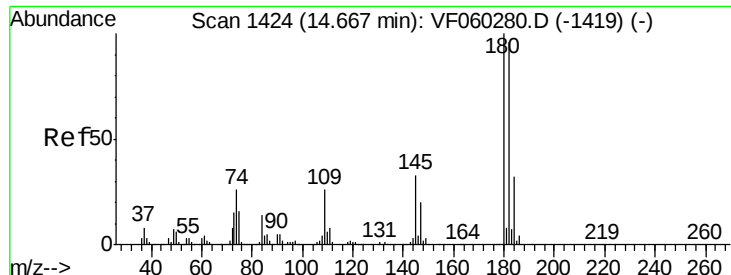


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

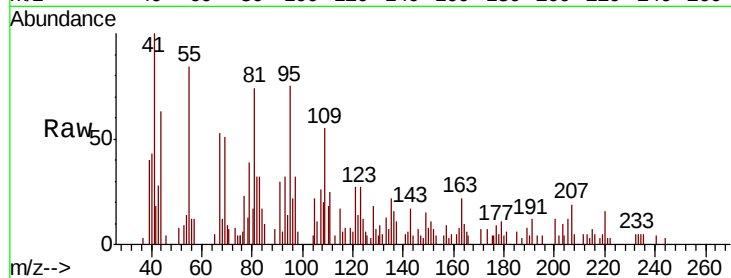




#96
 1,2,3-Trichlorobenzene
 Concen: 70.011 ug/l
 RT: 14.62 min Scan# 1419
 Delta R.T. -0.05 min
 Lab File: VF060305.D
 Acq: 20 Sep 2018 18:53

Instrument :
 MSVOA_F
 ClientSampleId :
 LS-SOIL-E

Tot 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

