

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF100918\
 Data File : VF060501.D
 Acq On : 9 Oct 2018 21:00
 Operator : VA/AP
 Sample : J5164-01LOD/MDL
 Misc : 5.00/5mL/MSVOA_F/SOIL
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2018DL

Quant Time: Oct 10 02:40:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F100918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 10 02:28:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.01	168	263632	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.74	114	423426	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.89	117	364265	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	219949	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.98	65	215762	53.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.94%	
35) Dibromofluoromethane	4.26	113	232524	59.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.32%	
50) Toluene-d8	7.68	98	481475	51.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.78%	
62) 4-Bromofluorobenzene	11.48	95	221061	53.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.56%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.00	85	12663	Below Cal	90
3) Chloromethane	1.14	50	9600	2.995 ug/l #	88
4) Vinyl Chloride	1.18	62	7844	2.256 ug/l	95
5) Bromomethane	1.36	94	7718	2.823 ug/l #	71
6) Chloroethane	1.42	64	4140	2.253 ug/l #	83
7) Trichlorofluoromethane	1.55	101	8190	1.051 ug/l	87
9) 1,1,2-Trichlorotrifluoroet	1.87	101	9952	2.553 ug/l #	87
10) Methyl Iodide	1.95	142	14355	2.323 ug/l #	83
11) Tert butyl alcohol	2.65	59	1325	6.325 ug/l #	52
12) 1,1-Dichloroethene	1.84	96	8702	2.673 ug/l	97
13) Acrolein	2.07	56	2923	Below Cal	86
14) Allyl chloride	2.17	41	9995	2.083 ug/l #	85
15) Acrylonitrile	3.07	53	5379	12.196 ug/l #	76
16) Acetone	2.33	43	14586	Below Cal	94
17) Carbon Disulfide	1.89	76	19249	2.126 ug/l #	70
18) Methyl Acetate	2.44	43	10522	5.011 ug/l	97
19) Methyl tert-butyl Ether	2.52	73	17599	2.401 ug/l	98
20) Methylene Chloride	2.26	84	7837	2.577 ug/l #	72
21) trans-1,2-Dichloroethene	2.40	96	8652	2.847 ug/l #	90
22) Diisopropyl ether	2.91	45	24363	2.470 ug/l #	96
23) Vinyl Acetate	3.30	43	37889	10.971 ug/l #	94
24) 1,1-Dichloroethane	2.98	63	14593	2.204 ug/l #	93
25) 2-Butanone	4.50	43	16064	16.845 ug/l #	88
26) 2,2-Dichloropropane	3.74	77	8634	2.501 ug/l	86
27) cis-1,2-Dichloroethene	3.61	96	7471	2.106 ug/l	92
28) Bromochloromethane	3.86	49	6695	2.911 ug/l #	79
29) Tetrahydrofuran	4.22	42	7540	18.756 ug/l #	88
30) Chloroform	3.99	83	16750	2.186 ug/l #	80
31) Cyclohexane	3.83	56	10205	2.409 ug/l #	79
32) 1,1,1-Trichloroethane	4.24	97	12776	2.117 ug/l	91
36) 1,1-Dichloropropene	4.43	75	11925	2.421 ug/l #	91
38) Carbon Tetrachloride	4.13	117	11724	2.370 ug/l #	93
39) Methylcyclohexane	5.59	83	10638	2.294 ug/l	95
40) Benzene	4.77	78	21546	2.131 ug/l #	83

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.89	41	3148	3.185	ug/l	90
42) 1,2-Dichloroethane	5.09	62	10699	2.332	ug/l	81
43) Isopropyl Acetate	7.08	43	7264	3.350	ug/l #	98
44) Trichloroethene	5.64	130	6974	2.214	ug/l	90
45) 1,2-Dichloropropane	6.38	63	5669	2.290	ug/l #	77
46) Dibromomethane	6.21	93	4405	2.218	ug/l #	62
47) Bromodichloromethane	6.51	83	11979	2.389	ug/l	86
48) Methyl methacrylate	6.84	41	3498	2.382	ug/l	93
49) 1,4-Dioxane	6.84	88	670	6.347	ug/l #	45
51) 4-Methyl-2-Pentanone	8.38	43	35331	23.359	ug/l	94
52) Toluene	7.74	92	12680	1.991	ug/l	92
53) t-1,3-Dichloropropene	8.40	75	7854	2.016	ug/l	99
54) cis-1,3-Dichloropropene	7.43	75	10030	2.211	ug/l #	83
55) 1,1,2-Trichloroethane	8.61	97	4037	2.063	ug/l #	91
56) Ethyl methacrylate	8.73	69	10465	4.621	ug/l #	91
57) 1,3-Dichloropropane	8.97	76	7718	2.290	ug/l	90
58) 2-Chloroethyl Vinyl ether	7.74	63	3033	13.179	ug/l	100
59) 2-Hexanone	9.60	43	33349	30.481	ug/l	98
60) Dibromochloromethane	8.83	129	7308	2.379	ug/l	97
61) 1,2-Dibromoethane	9.10	107	4436	2.006	ug/l #	72
64) Tetrachloroethene	8.28	164	7623	2.640	ug/l #	82
65) Chlorobenzene	9.92	112	15593	2.204	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.04	131	6144	1.928	ug/l #	73
67) Ethyl Benzene	10.01	91	29765	2.230	ug/l	99
68) m/p-Xylenes	10.24	106	20839	4.574	ug/l	87
69) o-Xylene	10.80	106	10940	2.208	ug/l	93
70) Styrene	10.87	104	17959	2.518	ug/l	97
71) Bromoform	10.87	173	3601	2.229	ug/l #	72
73) Isopropylbenzene	11.21	105	36081	2.207	ug/l	99
74) N-amyl acetate	11.45	43	19816	5.568	ug/l #	93
75) 1,1,2,2-Tetrachloroethane	11.77	83	6327	2.302	ug/l	83
76) 1,2,3-Trichloropropane	11.87	75	4726	2.225	ug/l	84
77) Bromobenzene	11.57	156	7360	2.026	ug/l	90
78) n-propylbenzene	11.67	91	44339	2.277	ug/l	97
79) 2-Chlorotoluene	11.79	91	27113	2.378	ug/l	87
80) 1,3,5-Trimethylbenzene	11.89	105	32168	2.345	ug/l	91
81) trans-1,4-Dichloro-2-buten	11.94	75	3176	3.429	ug/l	96
82) 4-Chlorotoluene	11.97	91	25670	2.183	ug/l	97
83) tert-Butylbenzene	12.19	119	30389	2.204	ug/l	97
84) 1,2,4-Trimethylbenzene	12.27	105	30650	2.201	ug/l	95
85) sec-Butylbenzene	12.37	105	42002	2.246	ug/l	97
86) p-Isopropyltoluene	12.52	119	36297	2.364	ug/l	90
87) 1,3-Dichlorobenzene	12.54	146	17409	2.516	ug/l	90
88) 1,4-Dichlorobenzene	12.63	146	15768	2.349	ug/l	93
89) n-Butylbenzene	12.90	91	38351	2.387	ug/l	98
90) Hexachloroethane	12.97	117	8302	2.262	ug/l	69
91) 1,2-Dichlorobenzene	13.00	146	16578	2.488	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.70	75	843	1.445	ug/l	69
93) 1,2,4-Trichlorobenzene	14.25	180	12129	2.358	ug/l	94
94) Hexachlorobutadiene	14.24	225	7210	2.061	ug/l	94

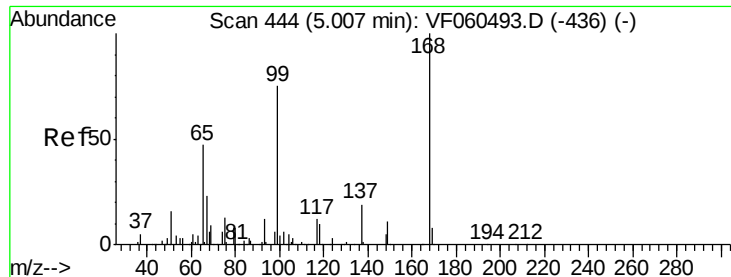
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF100918\
Data File : VF060501.D
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QLast Update : Wed Oct 10 02:28:46 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) Naphthalene	14.51	128	34656	3.919	ug/l	99
96) 1,2,3-Trichlorobenzene	14.65	180	11874	2.477	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.01 min Scan# 444

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

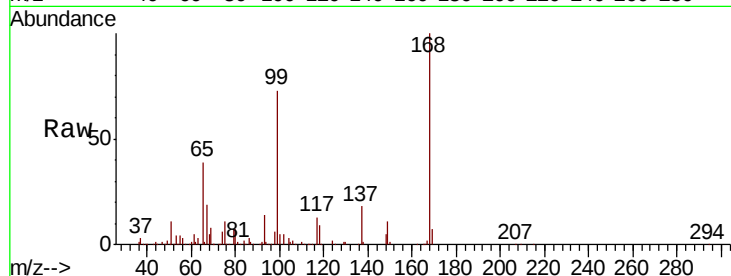
LOD-MDL-SOIL-01-QT4-2018DL

Tgt Ion:168 Resp: 263632

Ion Ratio Lower Upper

168 100

99 72.6 60.3 90.5



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.01

100000

80000

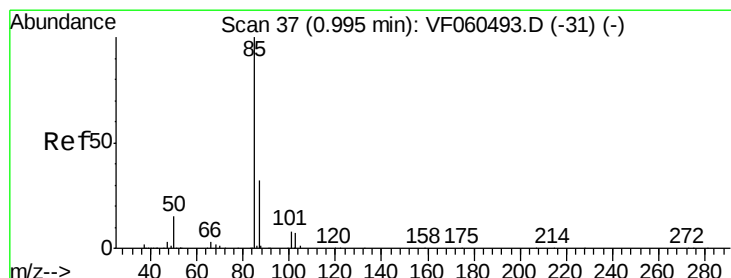
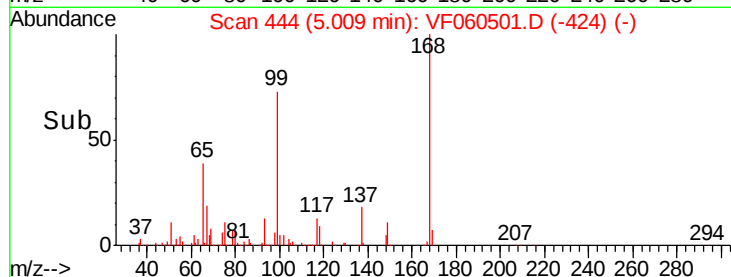
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.00 min Scan# 37

Delta R.T. 0.00 min

Lab File: VF060501.D

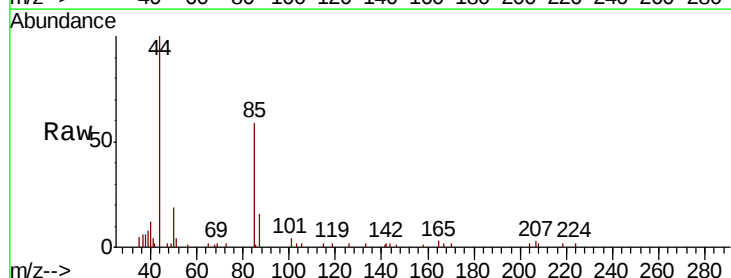
Acq: 9 Oct 2018 21:00

Tgt Ion: 85 Resp: 12663

Ion Ratio Lower Upper

85 100

87 26.9 16.2 48.5



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.00

5000

4000

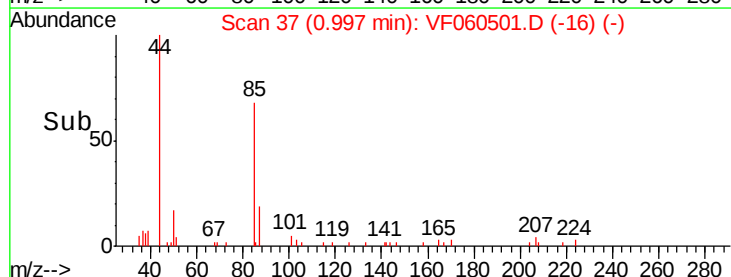
3000

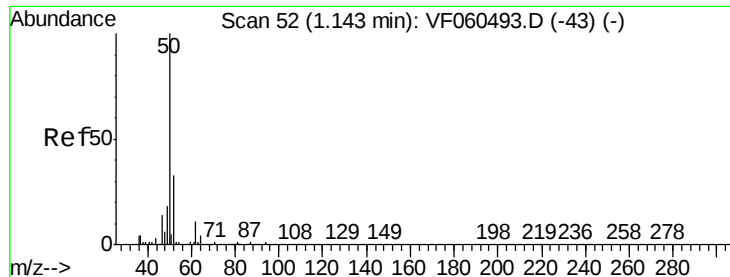
2000

1000

0

Time-->





#3

Chloromethane

Concen: 2.995 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

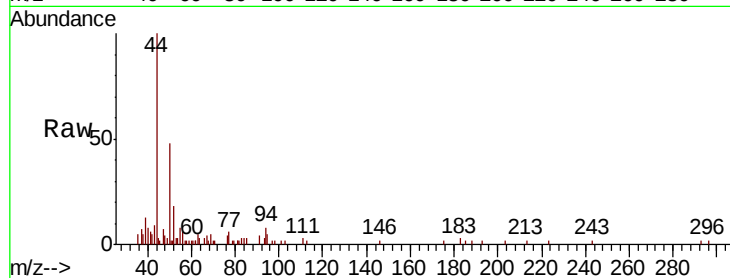
LOD-MDL-SOIL-01-QT4-2018DL

Tgt Ion: 50 Resp: 9600

Ion Ratio Lower Upper

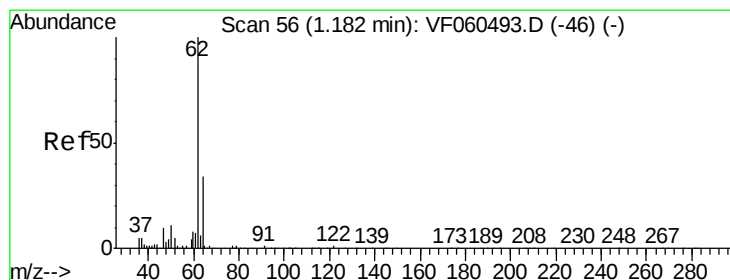
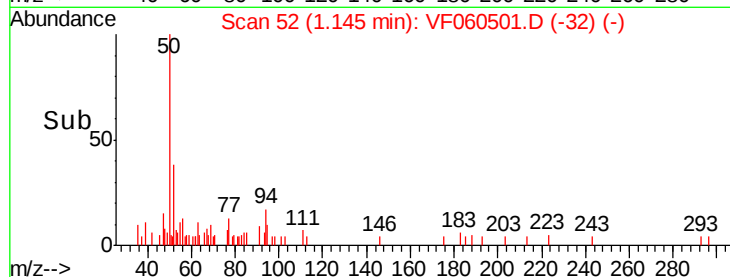
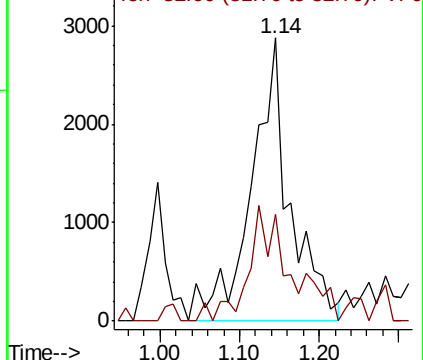
50 100

52 37.5 25.0 37.4#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 2.256 ug/l

RT: 1.18 min Scan# 56

Delta R.T. 0.00 min

Lab File: VF060501.D

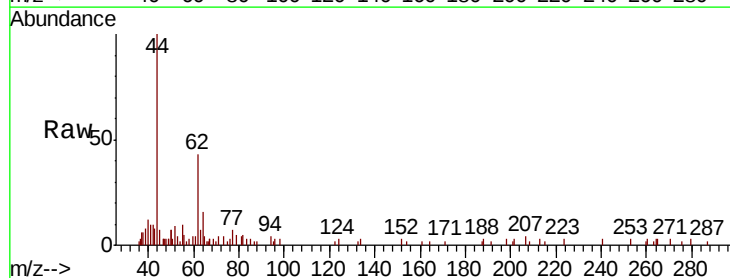
Acq: 9 Oct 2018 21:00

Tgt Ion: 62 Resp: 7844

Ion Ratio Lower Upper

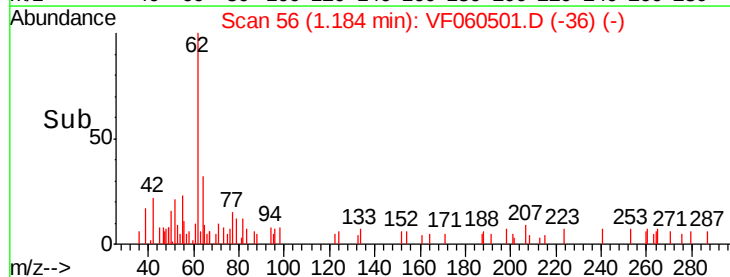
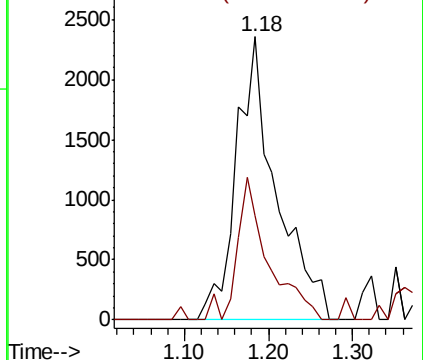
62 100

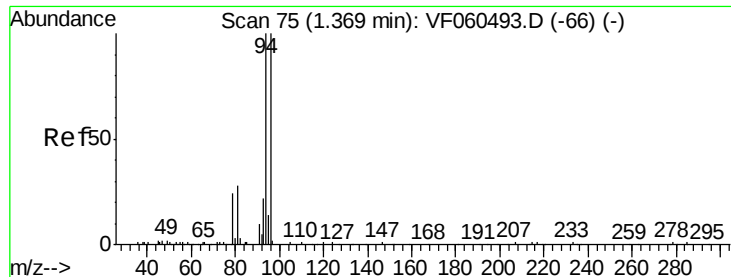
64 37.0 27.5 41.3



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 2.823 ug/l

RT: 1.36 min Scan# 74

Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

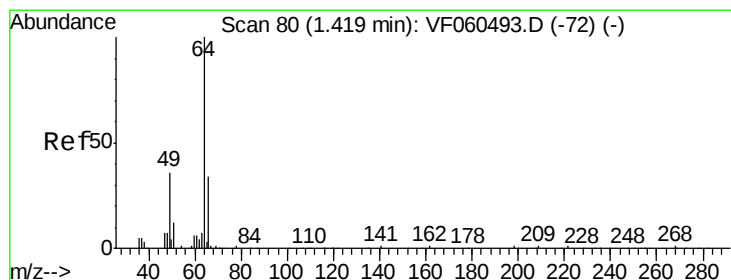
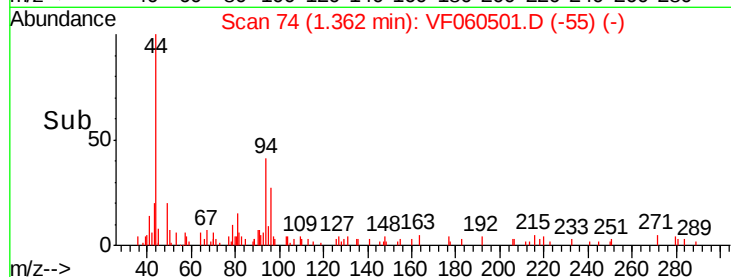
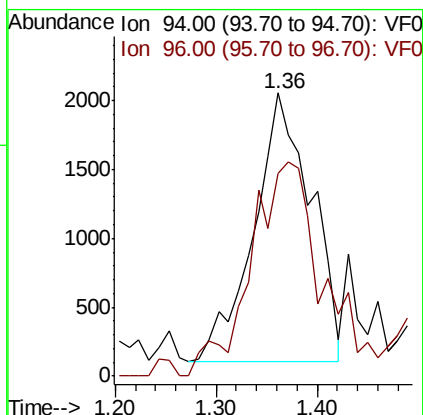
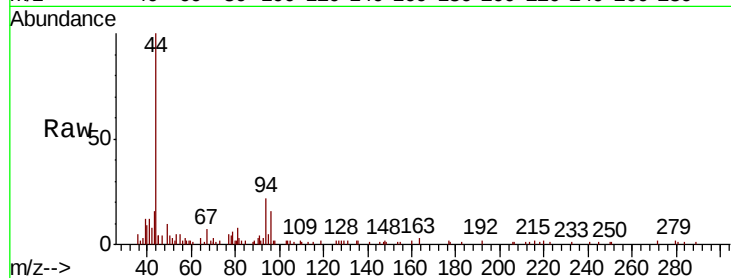
LOD-MDL-SOIL-01-QT4-2018DL

Tgt Ion: 94 Resp: 7718

Ion Ratio Lower Upper

94 100

96 71.7 80.6 120.8#



#6

Chloroethane

Concen: 2.253 ug/l

RT: 1.42 min Scan# 80

Delta R.T. 0.00 min

Lab File: VF060501.D

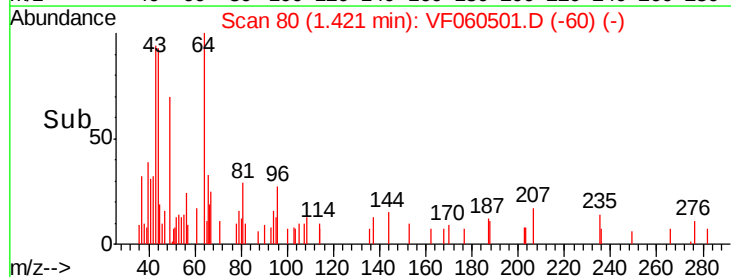
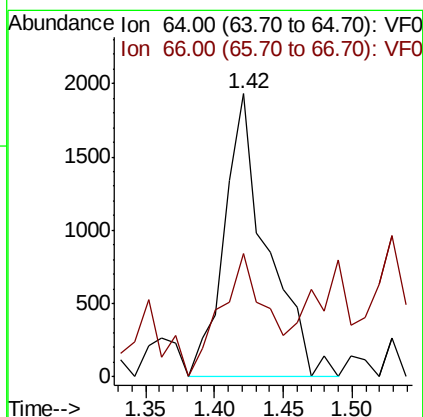
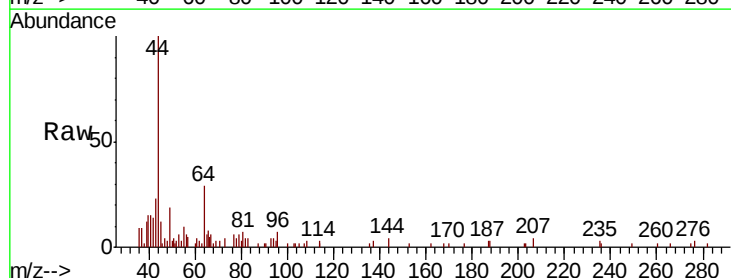
Acq: 9 Oct 2018 21:00

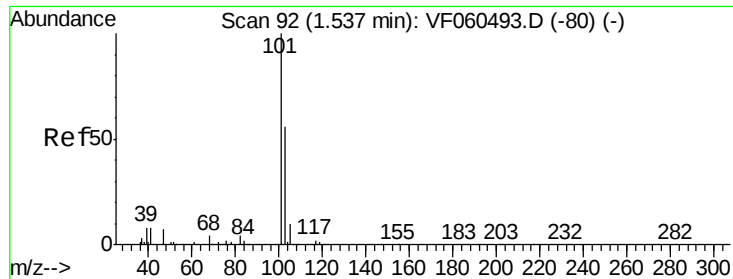
Tgt Ion: 64 Resp: 4140

Ion Ratio Lower Upper

64 100

66 43.4 27.0 40.6#





#7

Trichlorofluoromethane

Concen: 1.051 ug/l

RT: 1.55 min Scan# 93

Delta R.T. 0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

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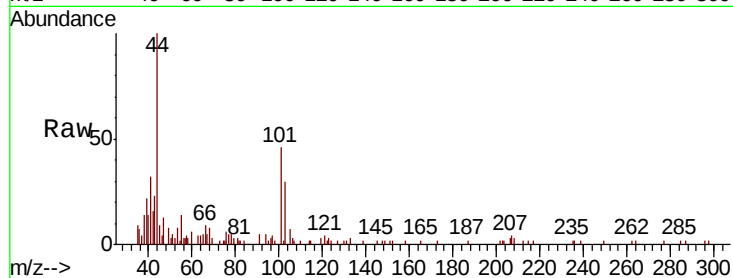
LOD-MDL-SOIL-01-QT4-2018DL

Tgt Ion:101 Resp: 8190

Ion Ratio Lower Upper

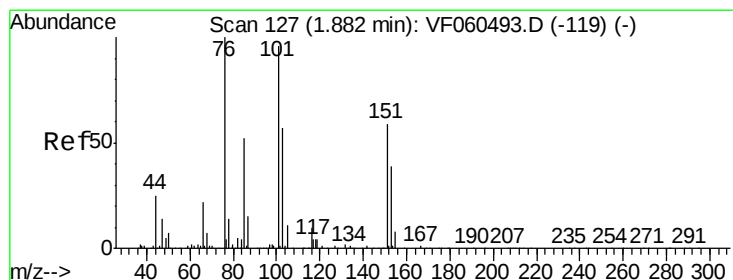
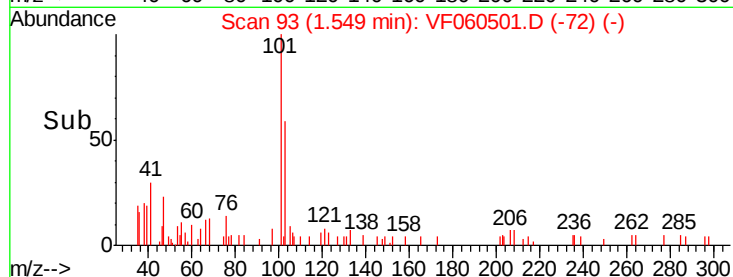
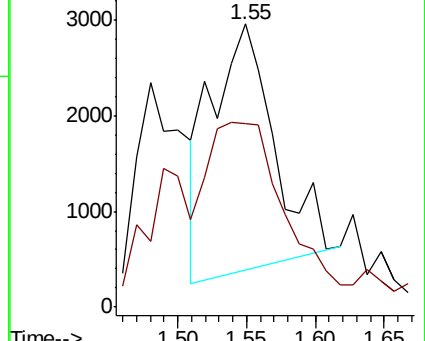
101 100

103 64.9 44.6 66.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.553 ug/l

RT: 1.87 min Scan# 126

Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

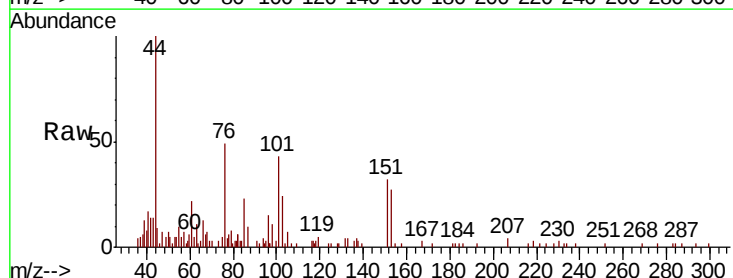
Tgt Ion:101 Resp: 9952

Ion Ratio Lower Upper

101 100

85 53.9 41.8 62.6

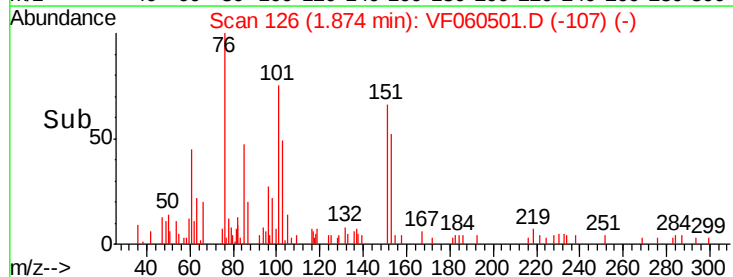
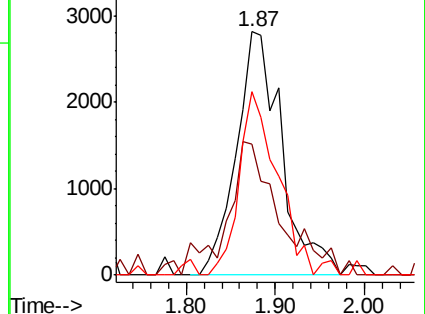
151 75.6 47.4 71.0#

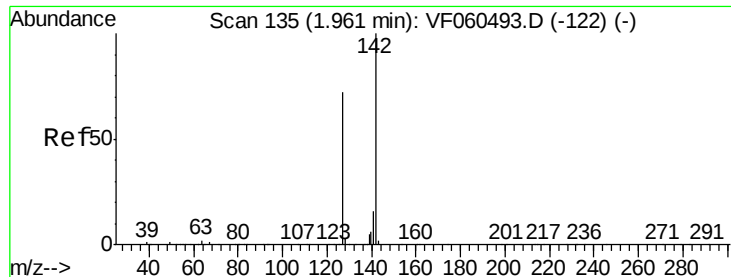


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V

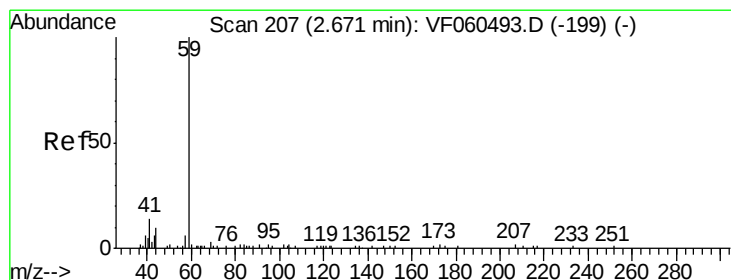
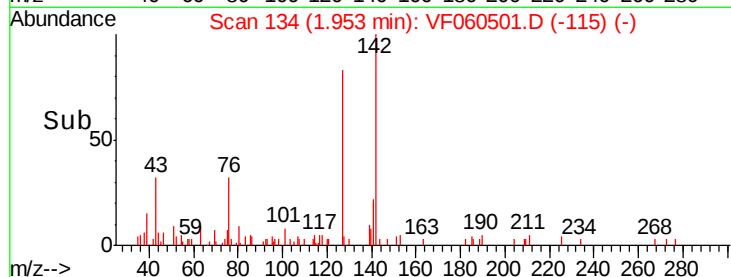
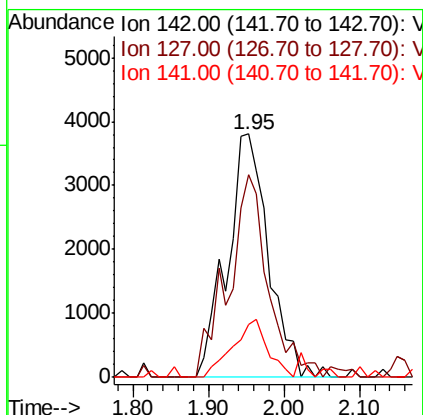
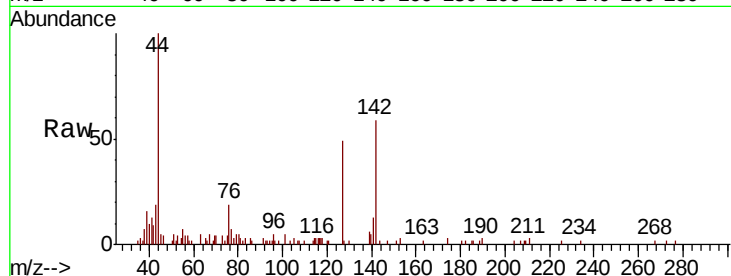




#10
Methyl Iodide
Concen: 2.323 ug/l
RT: 1.95 min Scan# 134
Delta R.T. -0.01 min
Lab File: VF060501.D
Acq: 9 Oct 2018 21:00

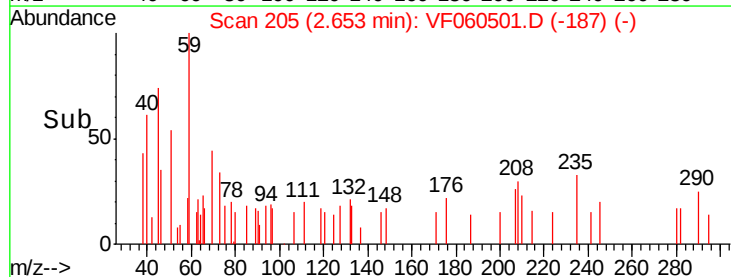
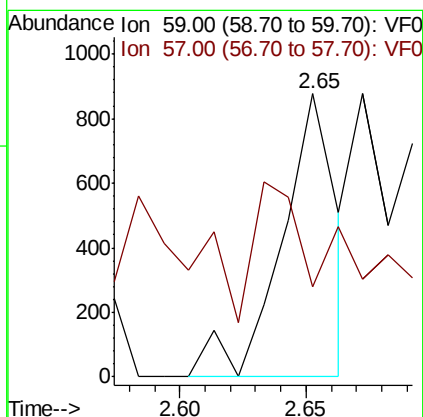
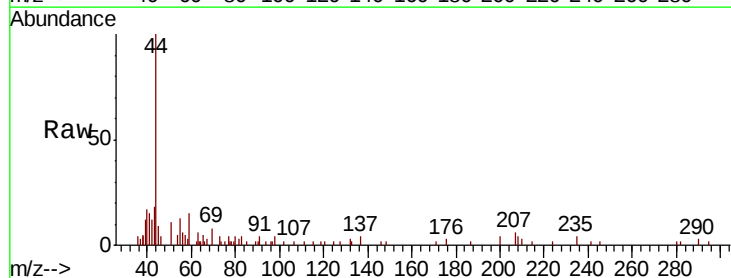
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018DL

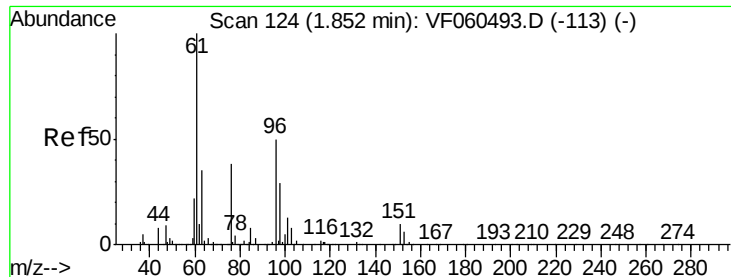
Tgt Ion: 142 Resp: 14355
Ion Ratio Lower Upper
142 100
127 87.3 57.9 86.9#
141 21.9 12.7 19.1#



#11
Tert butyl alcohol
Concen: 6.325 ug/l
RT: 2.65 min Scan# 205
Delta R.T. -0.02 min
Lab File: VF060501.D
Acq: 9 Oct 2018 21:00

Tgt Ion: 59 Resp: 1325
Ion Ratio Lower Upper
59 100
57 31.7 10.2 15.2#

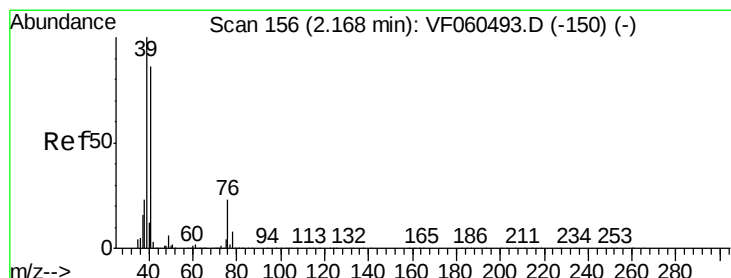
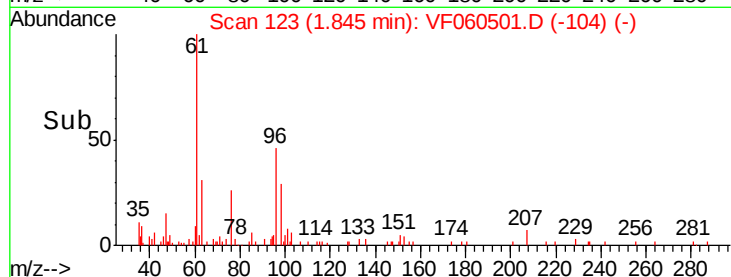
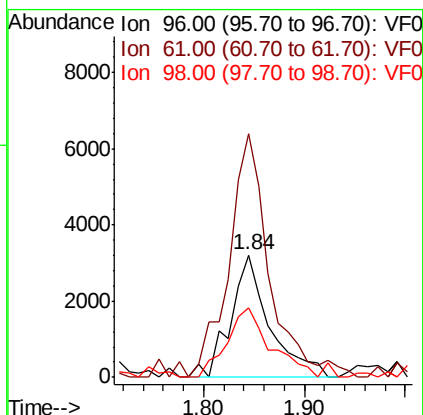
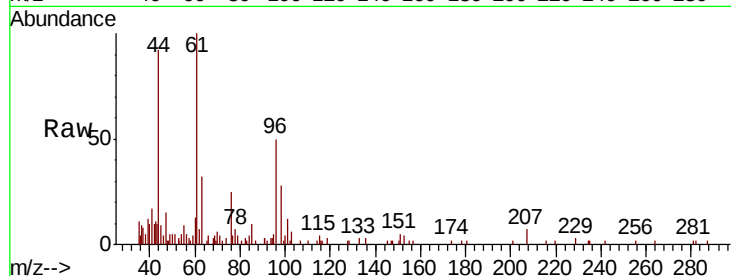




#12
 1,1-Dichloroethene
 Concen: 2.673 ug/l
 RT: 1.84 min Scan# 123
 Delta R.T. -0.01 min
 Lab File: VF060501.D
 Acq: 9 Oct 2018 21:00

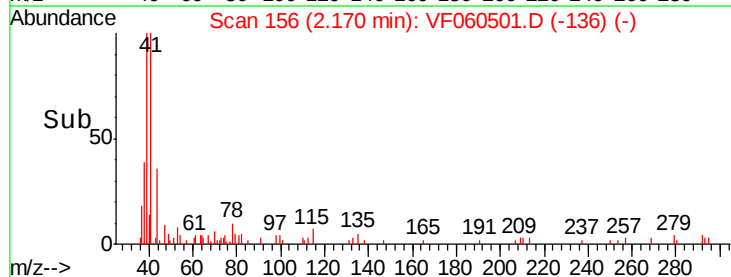
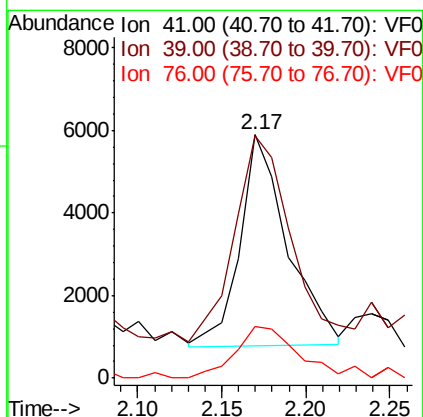
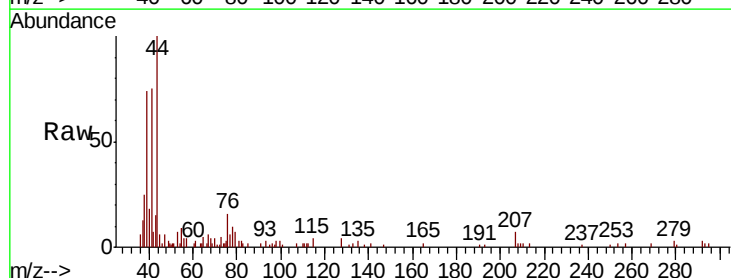
Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2018DL

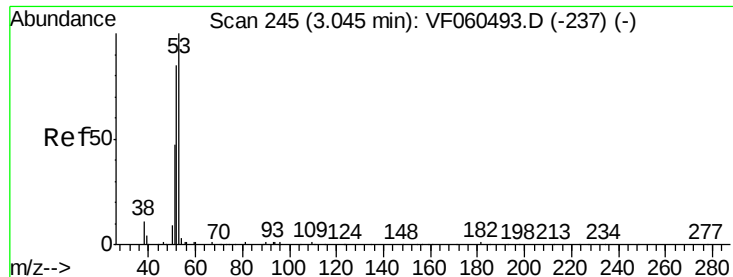
Tgt Ion: 96 Resp: 8702
 Ion Ratio Lower Upper
 96 100
 61 198.7 161.9 242.9
 98 56.4 47.4 71.2



#14
 Allyl chloride
 Concen: 2.083 ug/l
 RT: 2.17 min Scan# 156
 Delta R.T. 0.00 min
 Lab File: VF060501.D
 Acq: 9 Oct 2018 21:00

Tgt Ion: 41 Resp: 9995
 Ion Ratio Lower Upper
 41 100
 39 99.5 93.1 139.7
 76 21.2 21.6 32.4#





#15

Acrylonitrile

Concen: 12.196 ug/l

RT: 3.07 min Scan# 247

Delta R.T. 0.02 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

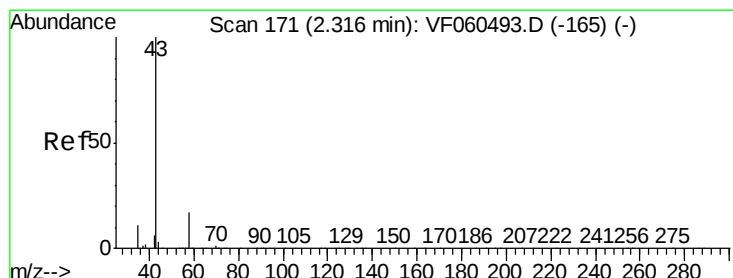
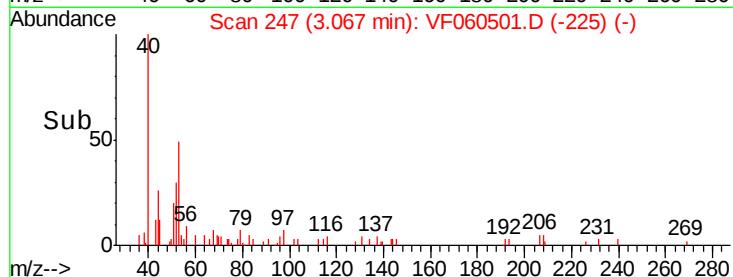
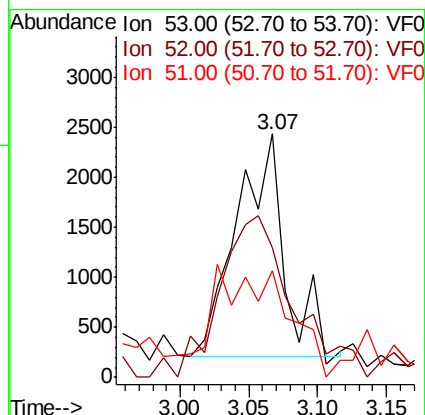
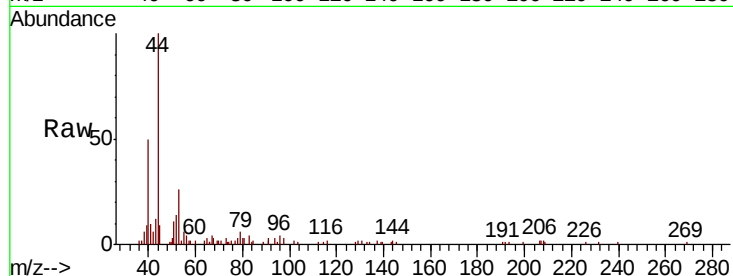
Tgt Ion: 53 Resp: 5379

Ion Ratio Lower Upper

53 100

52 53.3 67.5 101.3#

51 43.8 38.2 57.4



#16

Acetone

Concen: Below Cal

RT: 2.33 min Scan# 172

Delta R.T. 0.01 min

Lab File: VF060501.D

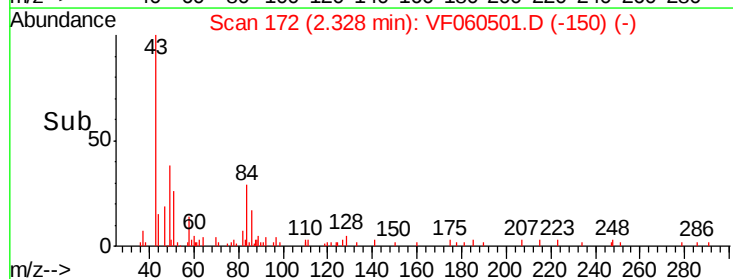
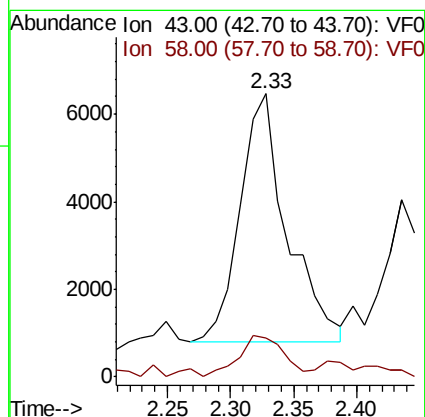
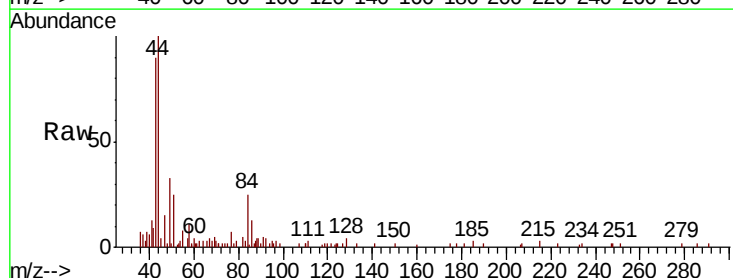
Acq: 9 Oct 2018 21:00

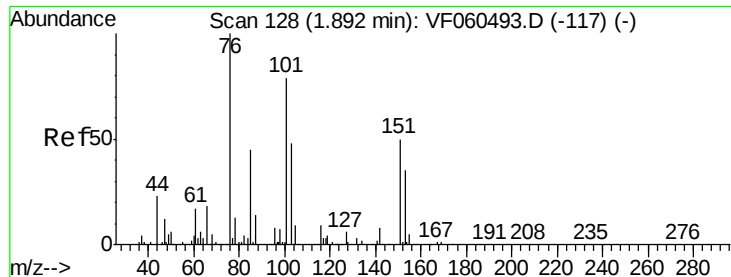
Tgt Ion: 43 Resp: 14586

Ion Ratio Lower Upper

43 100

58 13.8 13.2 19.8





#17

Carbon Disulfide

Concen: 2.126 ug/l

RT: 1.89 min Scan# 128

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

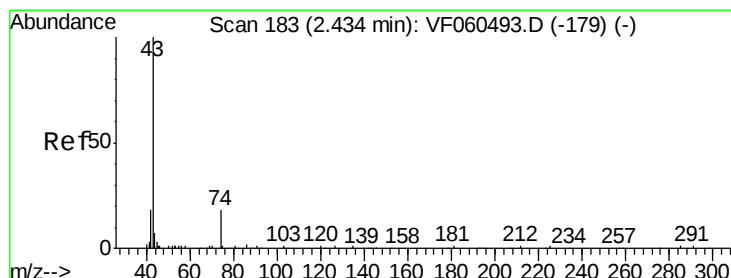
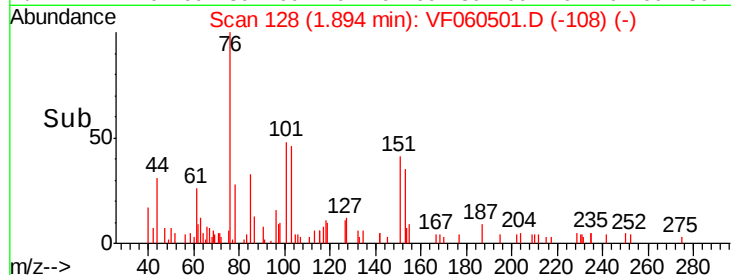
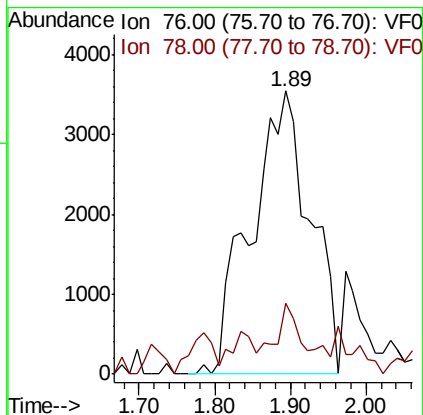
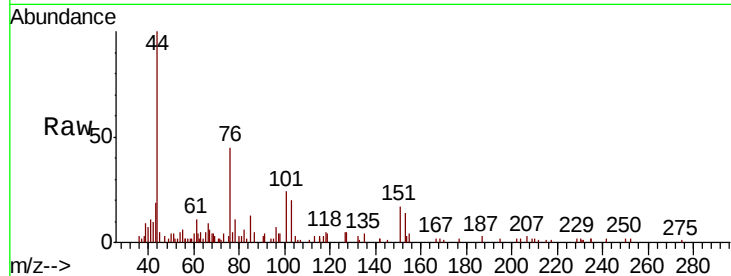
LOD-MDL-SOIL-01-QT4-2018DL

Tgt Ion: 76 Resp: 19249

Ion Ratio Lower Upper

76 100

78 25.2 10.5 15.7#



#18

Methyl Acetate

Concen: 5.011 ug/l

RT: 2.44 min Scan# 183

Delta R.T. 0.00 min

Lab File: VF060501.D

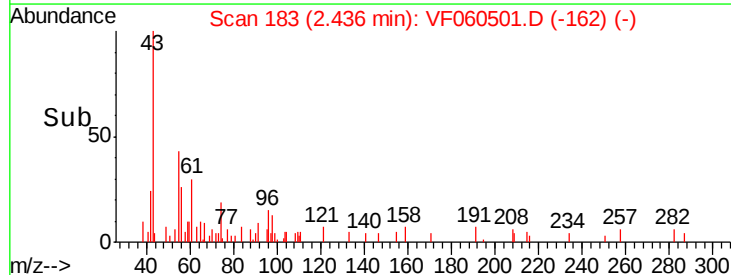
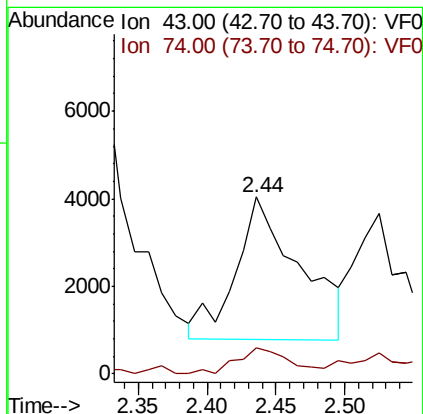
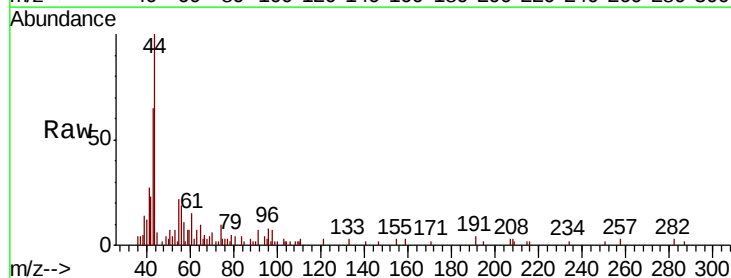
Acq: 9 Oct 2018 21:00

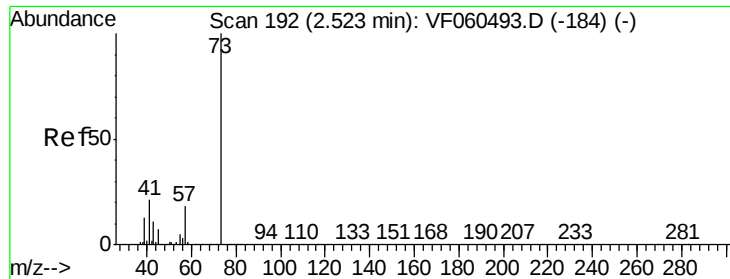
Tgt Ion: 43 Resp: 10522

Ion Ratio Lower Upper

43 100

74 14.9 12.9 19.3

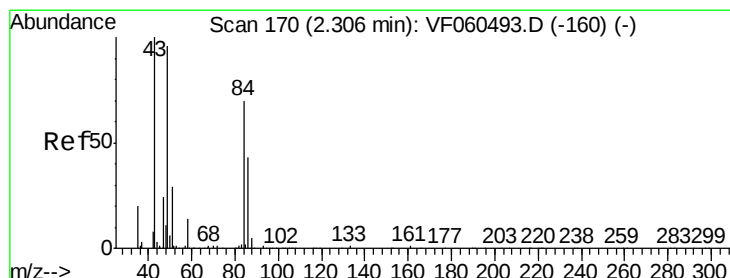
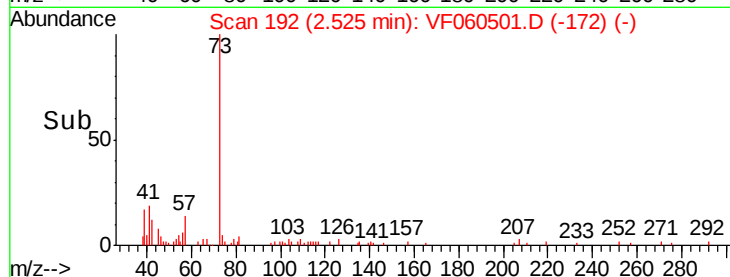
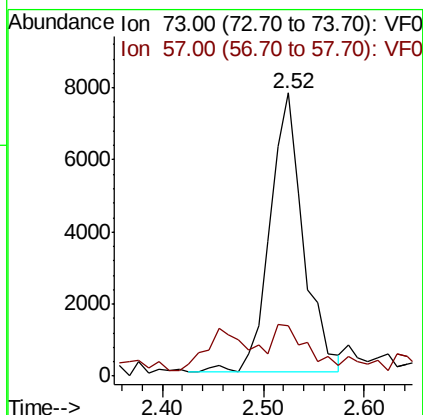
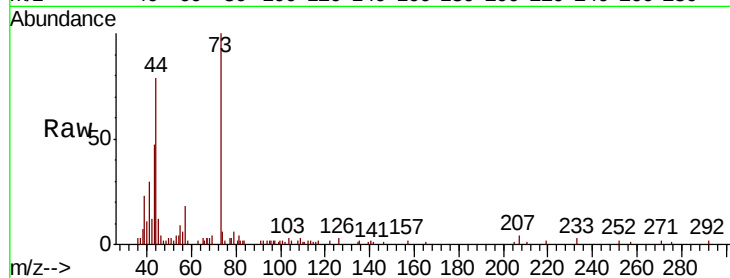




#19
Methyl tert-butyl Ether
Concen: 2.401 ug/l
RT: 2.52 min Scan# 192
Delta R.T. 0.00 min
Lab File: VF060501.D
Acq: 9 Oct 2018 21:00

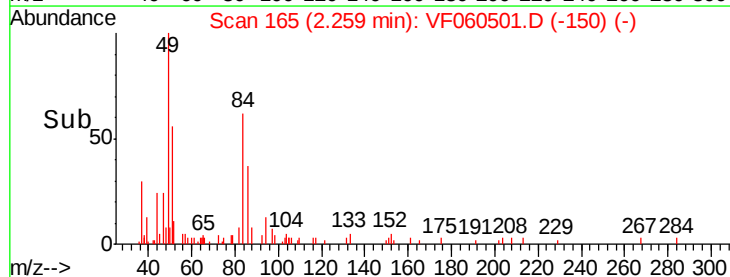
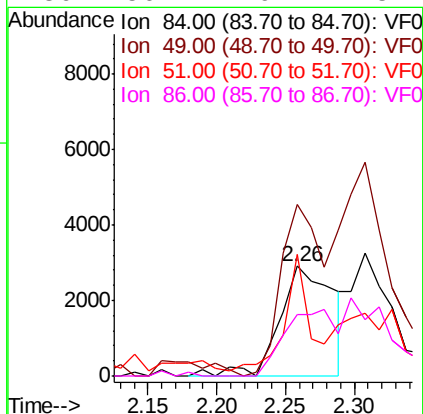
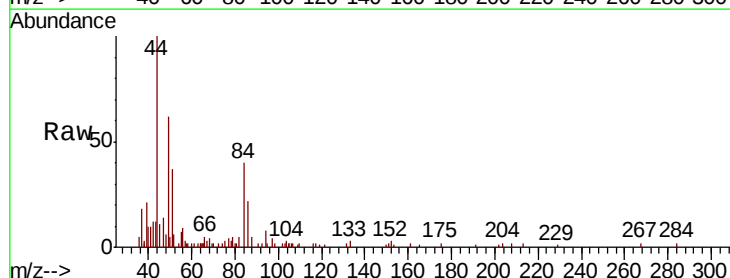
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018DL

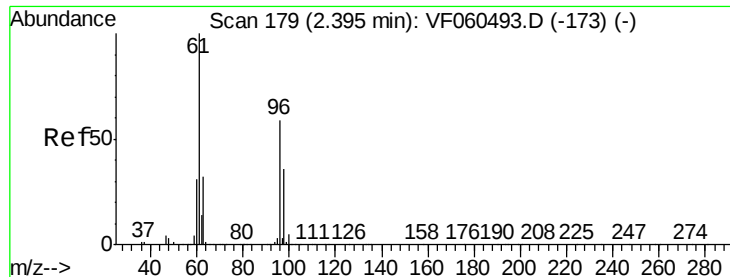
Tgt Ion: 73 Resp: 17599
Ion Ratio Lower Upper
73 100
57 17.9 15.0 22.6



#20
Methylene Chloride
Concen: 2.577 ug/l
RT: 2.26 min Scan# 165
Delta R.T. -0.05 min
Lab File: VF060501.D
Acq: 9 Oct 2018 21:00

Tgt Ion: 84 Resp: 7837
Ion Ratio Lower Upper
84 100
49 156.5 111.5 167.3
51 110.5 34.6 52.0#
86 56.4 49.1 73.7





#21

trans-1,2-Dichloroethene

Concen: 2.847 ug/l

RT: 2.40 min Scan# 179

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

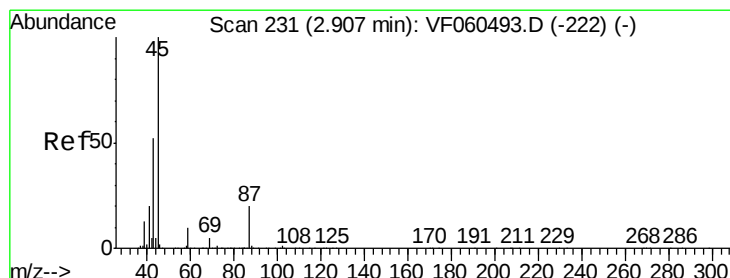
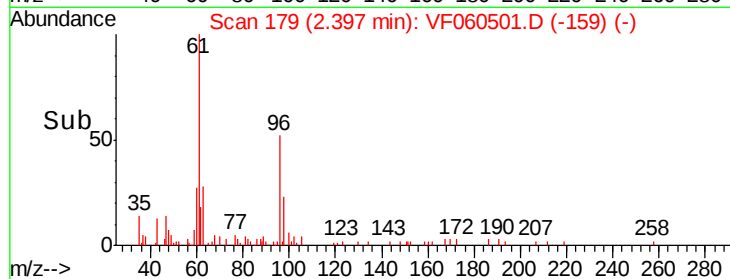
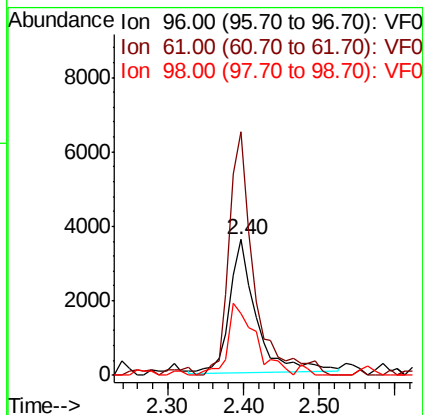
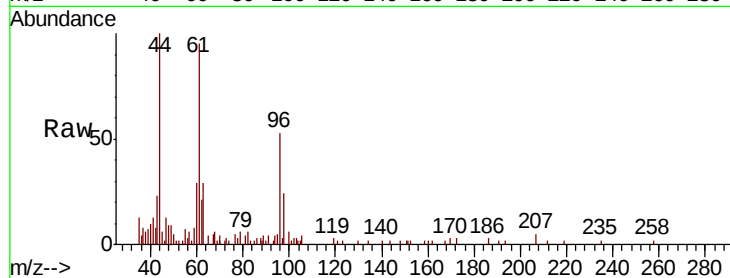
Tgt Ion: 96 Resp: 8652

Ion Ratio Lower Upper

96 100

61 179.3 136.2 204.4

98 45.8 49.7 74.5#



#22

Diisopropyl ether

Concen: 2.470 ug/l

RT: 2.91 min Scan# 231

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Tgt Ion: 45 Resp: 24363

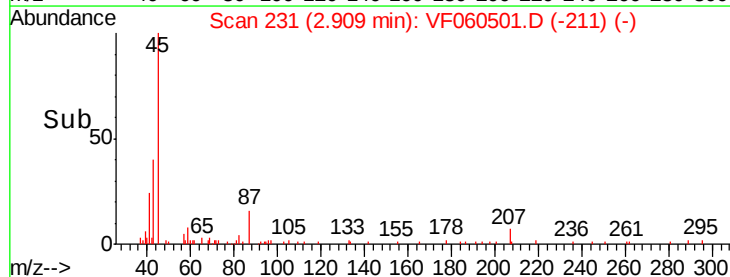
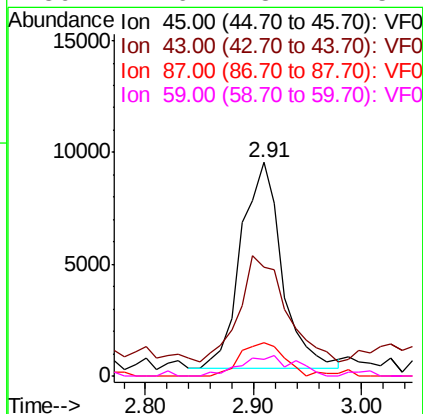
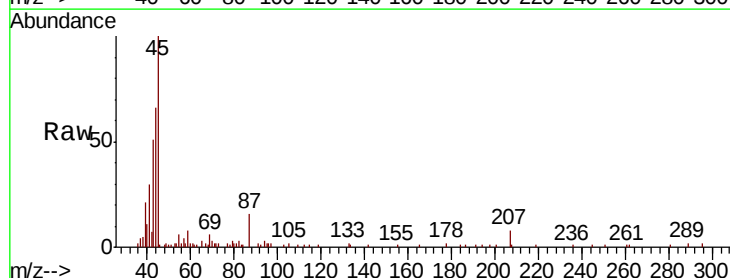
Ion Ratio Lower Upper

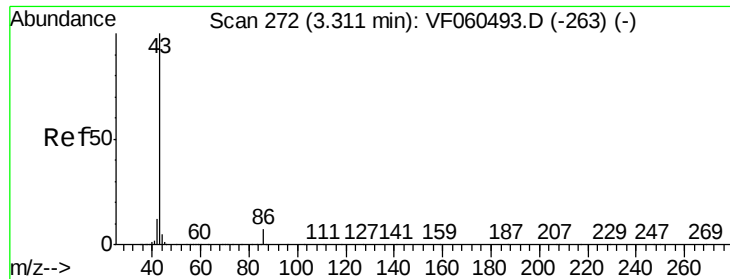
45 100

43 50.8 41.8 62.8

87 15.8 15.7 23.5

59 7.6 8.7 13.1#





#23

Vinyl Acetate

Concen: 10.971 ug/l

RT: 3.30 min Scan# 271

Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

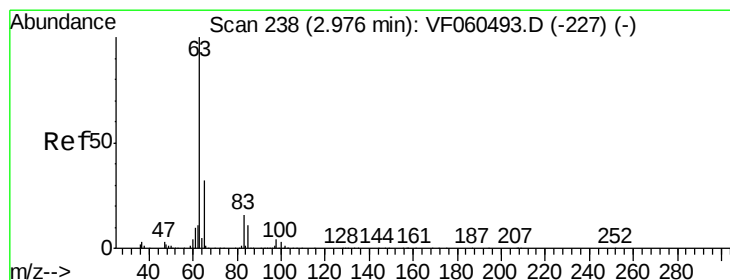
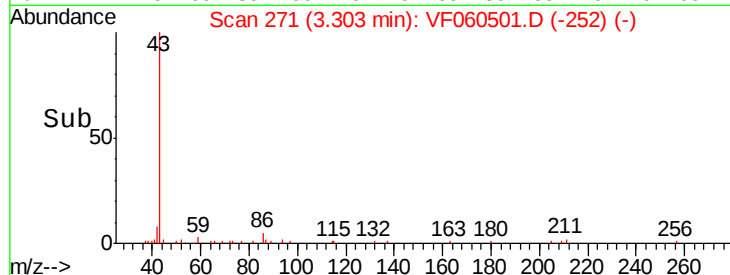
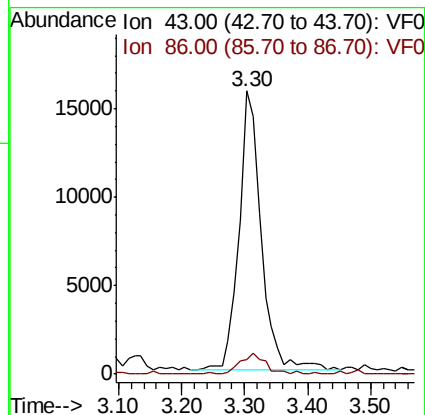
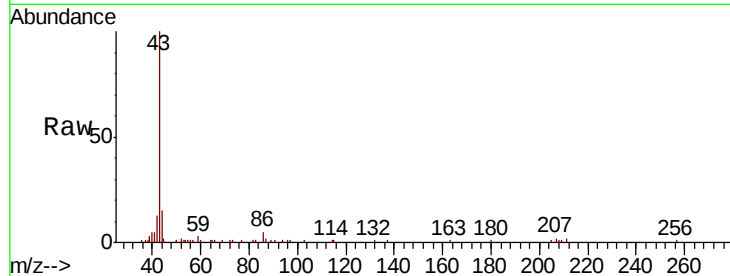
LOD-MDL-SOIL-01-QT4-2018DL

Tgt Ion: 43 Resp: 37889

Ion Ratio Lower Upper

43 100

86 5.1 5.8 8.8#



#24

1,1-Dichloroethane

Concen: 2.204 ug/l

RT: 2.98 min Scan# 238

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

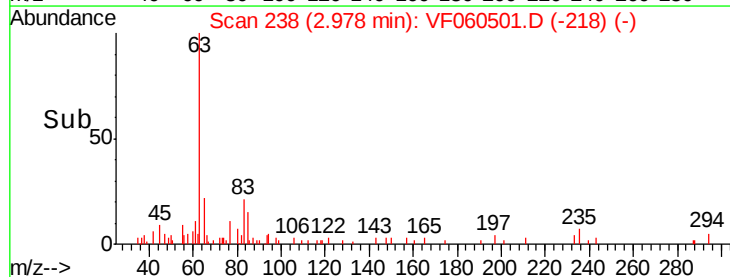
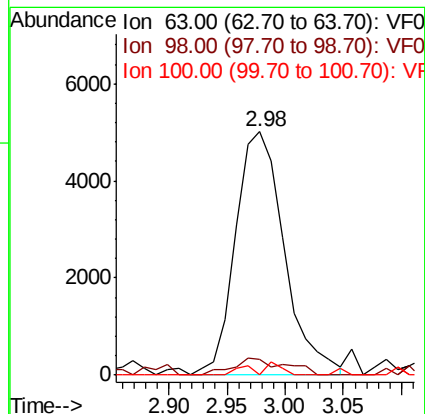
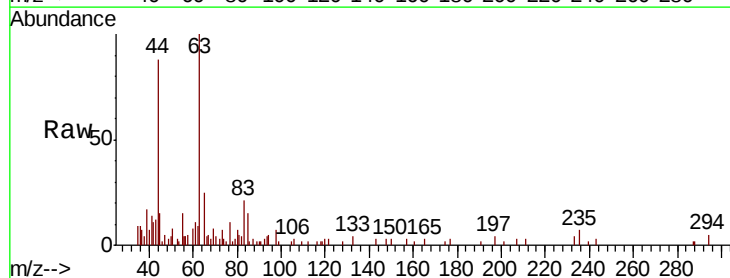
Tgt Ion: 63 Resp: 14593

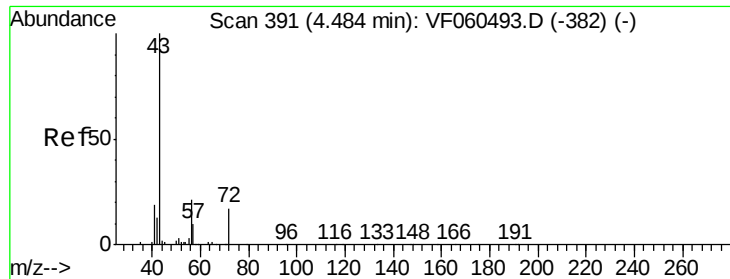
Ion Ratio Lower Upper

63 100

98 6.5 2.2 6.6

100 0.0 1.5 4.4#





#25

2-Butanone

Concen: 16.845 ug/l

RT: 4.50 min Scan# 392

Delta R.T. 0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

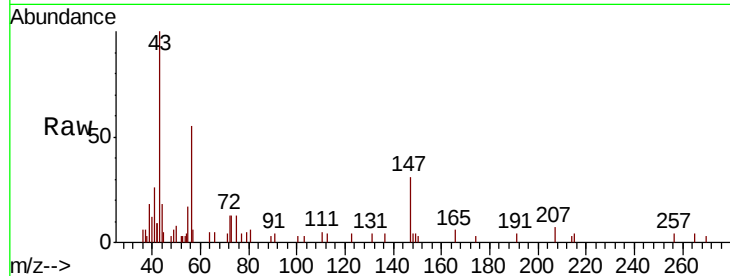
LOD-MDL-SOIL-01-QT4-2018DL

Tgt Ion: 43 Resp: 16064

Ion Ratio Lower Upper

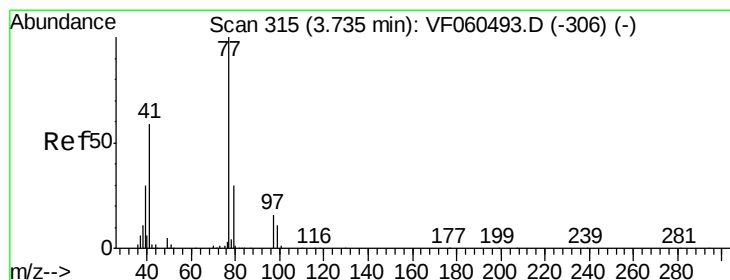
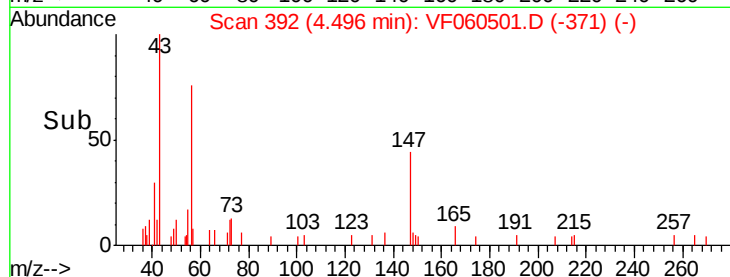
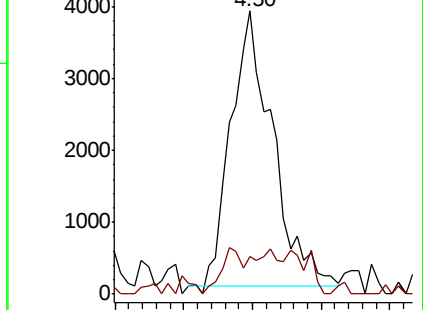
43 100

72 13.4 15.0 22.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 2.501 ug/l

RT: 3.74 min Scan# 315

Delta R.T. 0.00 min

Lab File: VF060501.D

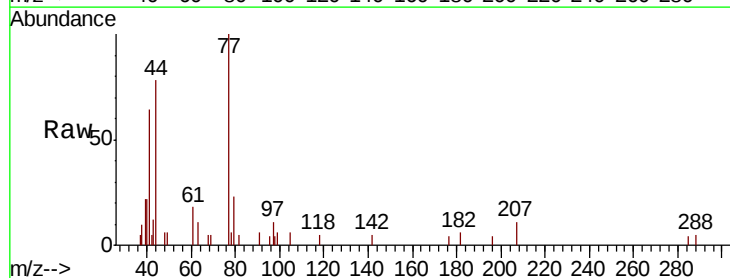
Acq: 9 Oct 2018 21:00

Tgt Ion: 77 Resp: 8634

Ion Ratio Lower Upper

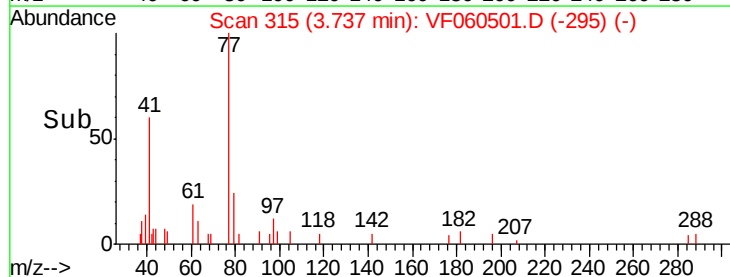
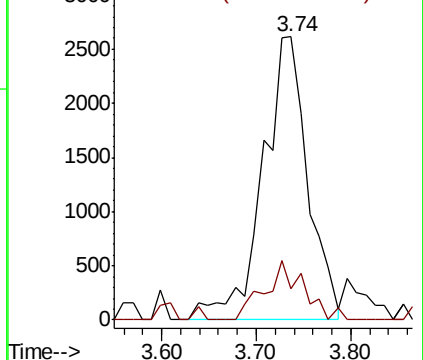
77 100

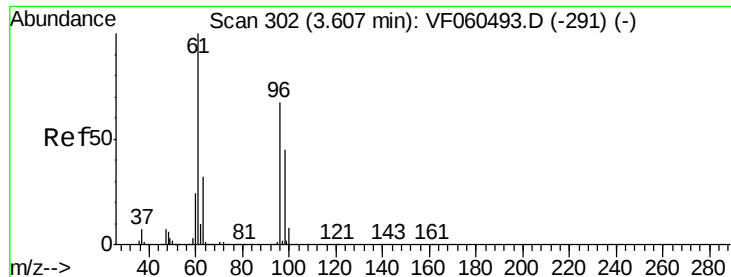
97 11.1 8.6 25.7



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0



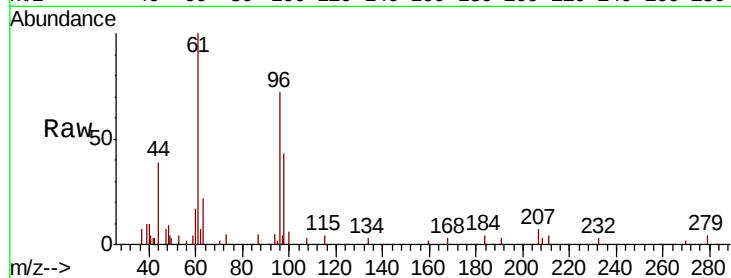


#27

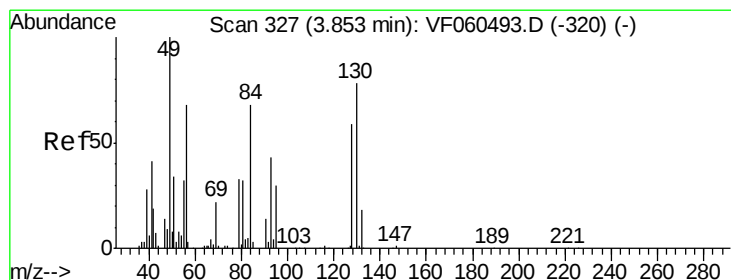
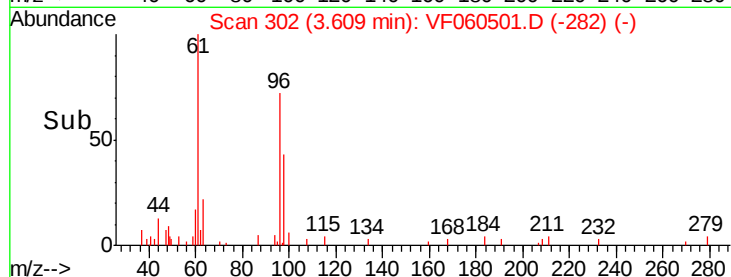
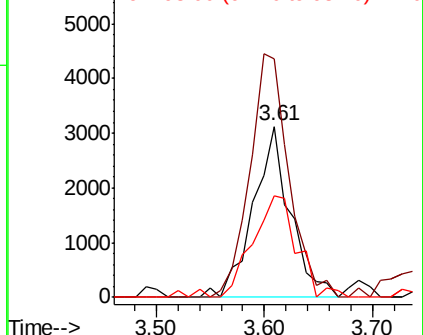
cis-1,2-Dichloroethene
Concen: 2.106 ug/l
RT: 3.61 min Scan# 302
Delta R.T. 0.00 min
Lab File: VF060501.D
Acq: 9 Oct 2018 21:00

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018DL

Tgt Ion: 96 Resp: 7471
Ion Ratio Lower Upper
96 100
61 139.6 0.0 298.0
98 59.7 0.0 135.0



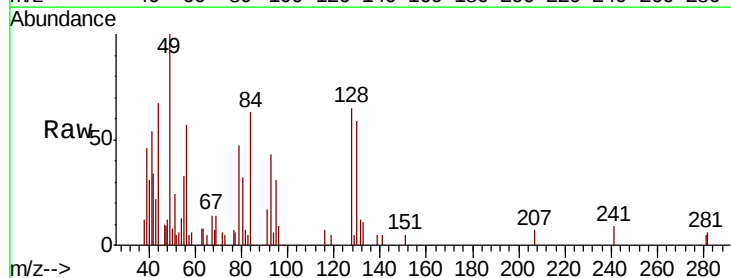
Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



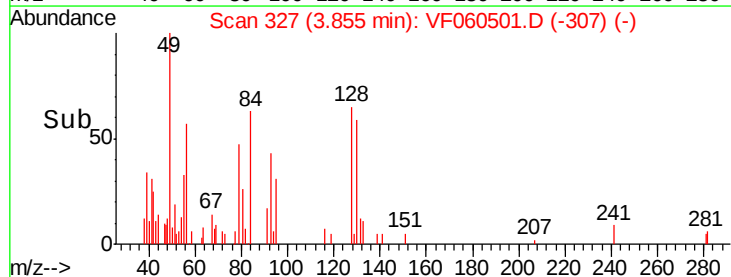
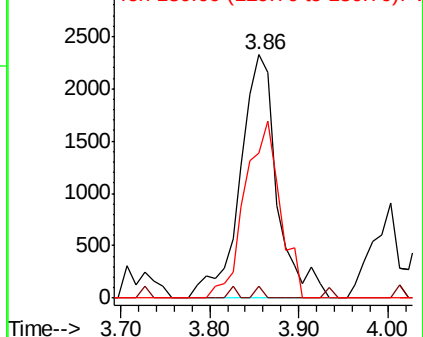
#28

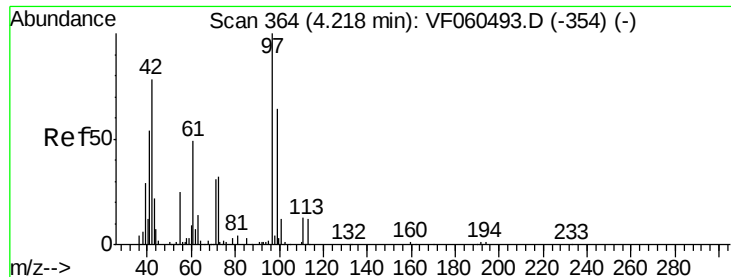
Bromochloromethane
Concen: 2.911 ug/l
RT: 3.86 min Scan# 327
Delta R.T. 0.00 min
Lab File: VF060501.D
Acq: 9 Oct 2018 21:00

Tgt Ion: 49 Resp: 6695
Ion Ratio Lower Upper
49 100
129 5.1 0.0 0.0#
130 59.4 62.2 93.2#



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: 18.756 ug/l

RT: 4.22 min Scan# 364

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

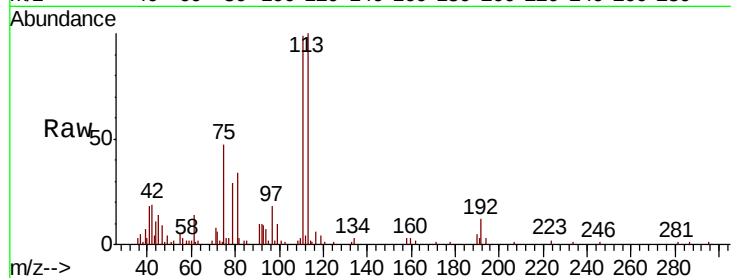
Tgt Ion: 42 Resp: 7540

Ion Ratio Lower Upper

42 100

72 31.2 31.9 47.9#

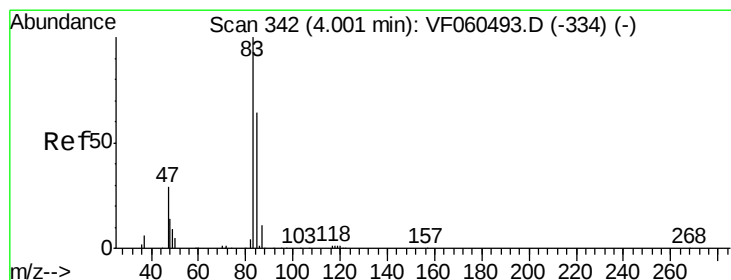
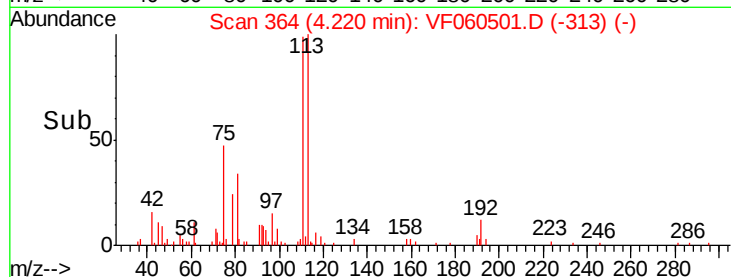
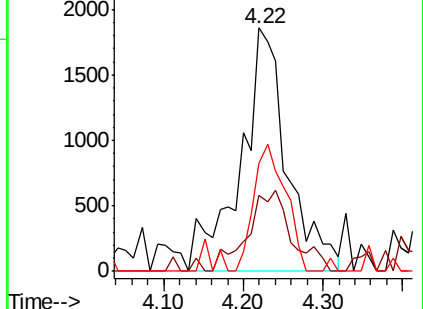
71 35.6 33.4 50.0



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



#30

Chloroform

Concen: 2.186 ug/l

RT: 3.99 min Scan# 341

Delta R.T. -0.01 min

Lab File: VF060501.D

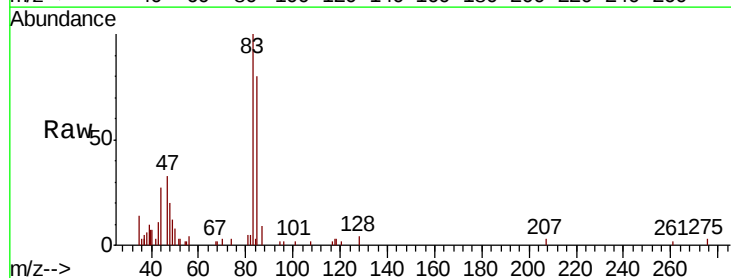
Acq: 9 Oct 2018 21:00

Tgt Ion: 83 Resp: 16750

Ion Ratio Lower Upper

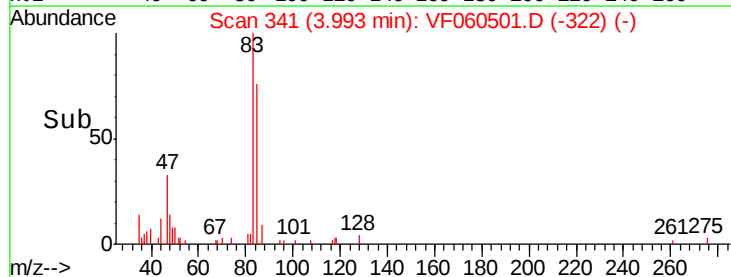
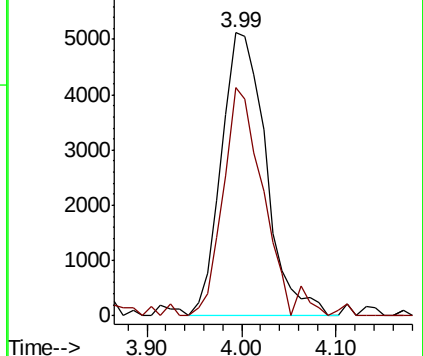
83 100

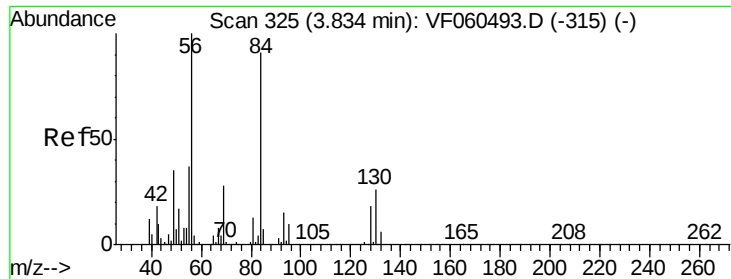
85 80.4 51.7 77.5#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

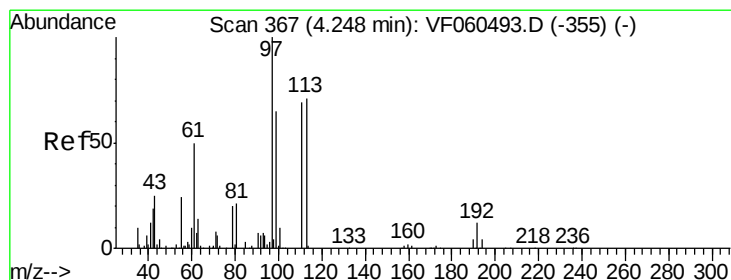
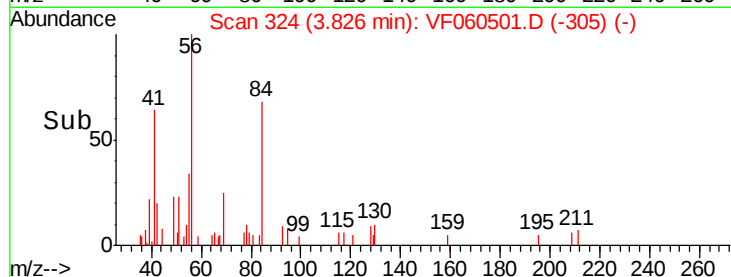
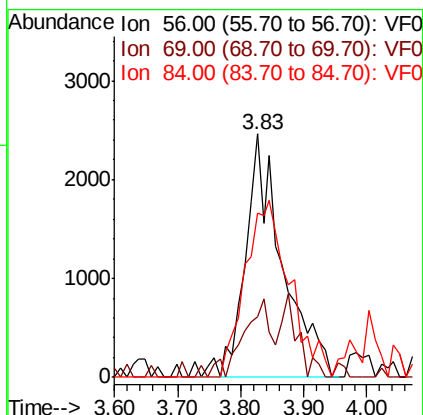
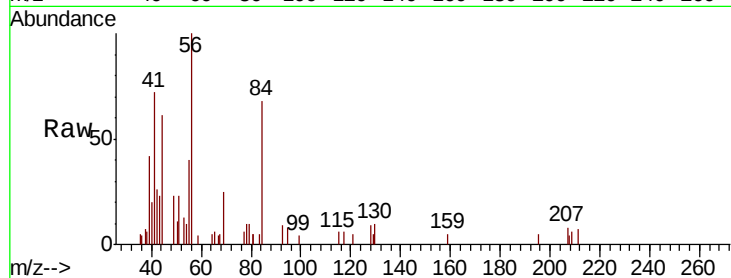




#31
Cyclohexane
Concen: 2.409 ug/l
RT: 3.83 min Scan# 324
Delta R.T. -0.01 min
Lab File: VF060501.D
Acq: 9 Oct 2018 21:00

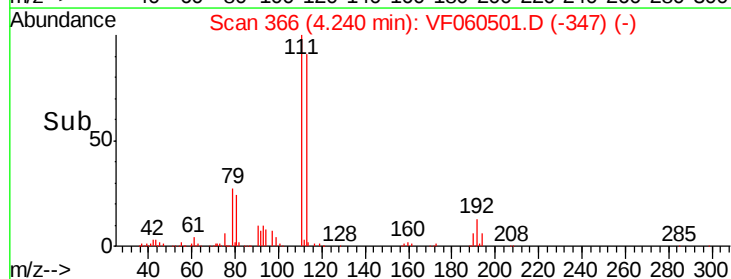
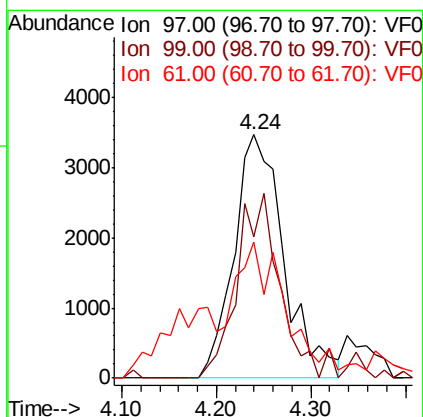
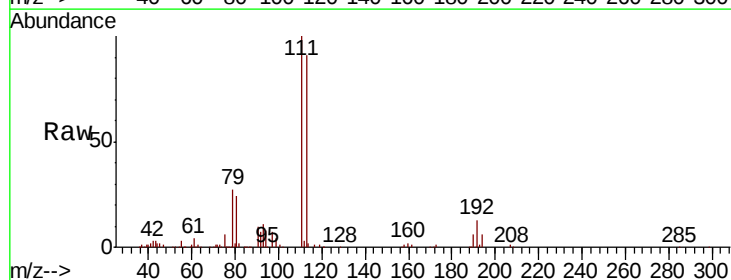
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018DL

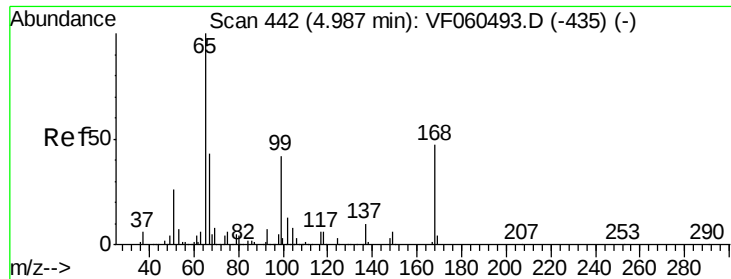
Tgt Ion: 56 Resp: 10205
Ion Ratio Lower Upper
56 100
69 24.8 22.7 34.1
84 67.5 73.1 109.7#



#32
1,1,1-Trichloroethane
Concen: 2.117 ug/l
RT: 4.24 min Scan# 366
Delta R.T. -0.01 min
Lab File: VF060501.D
Acq: 9 Oct 2018 21:00

Tgt Ion: 97 Resp: 12776
Ion Ratio Lower Upper
97 100
99 58.2 52.3 78.5
61 55.8 39.8 59.8





#33

1,2-Dichloroethane-d4

Concen: 53.966 ug/l

RT: 4.98 min Scan# 441

Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

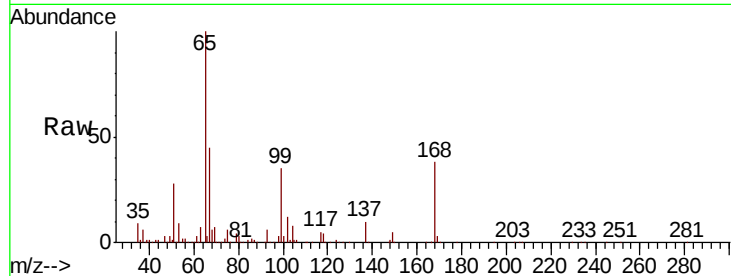
LOD-MDL-SOIL-01-QT4-2018DL

Tgt Ion: 65 Resp: 215762

Ion Ratio Lower Upper

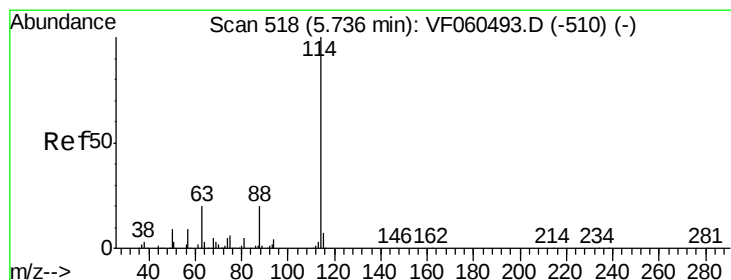
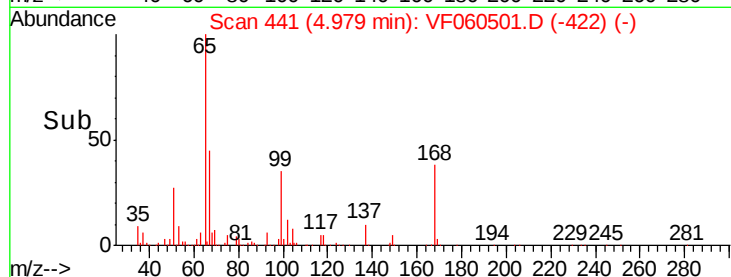
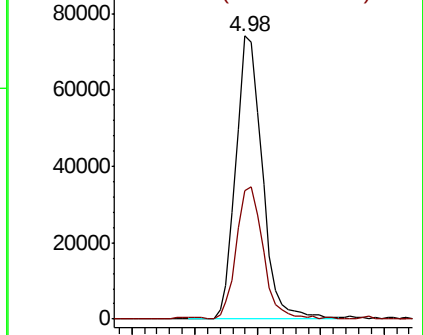
65 100

67 45.5 0.0 94.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.74 min Scan# 518

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

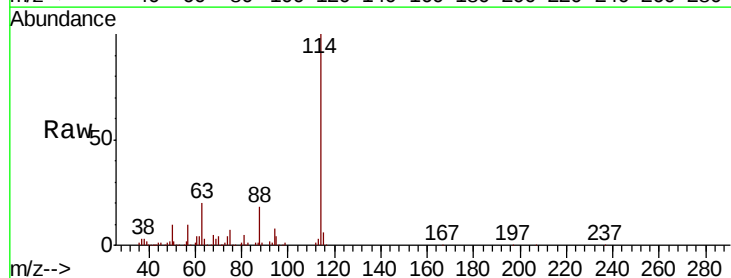
Tgt Ion: 114 Resp: 423426

Ion Ratio Lower Upper

114 100

63 19.7 0.0 40.2

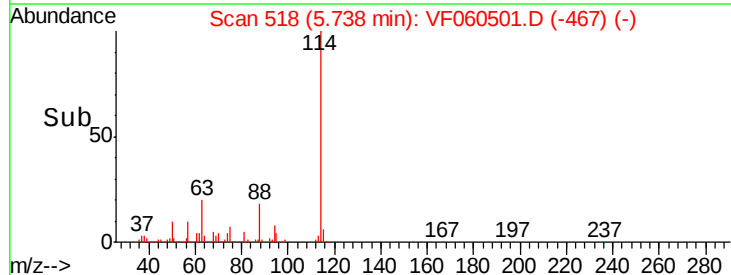
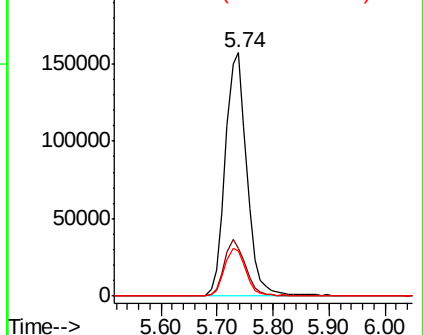
88 18.3 0.0 40.2

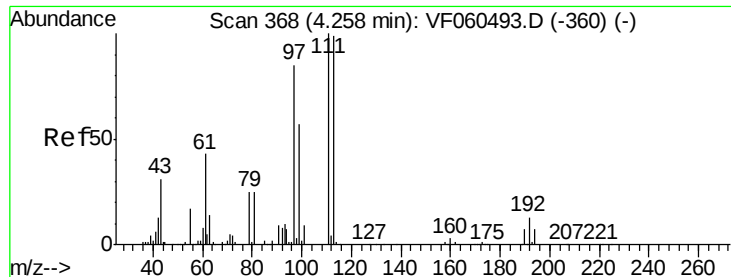


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 59.658 ug/l

RT: 4.26 min Scan# 368

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

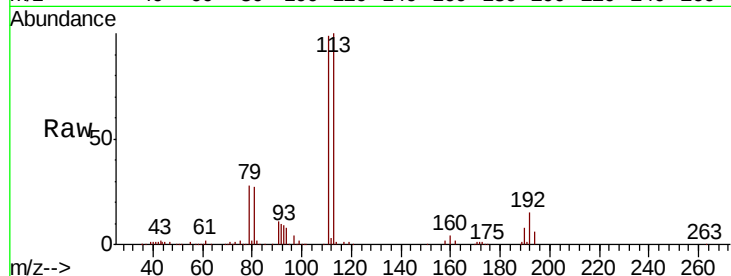
Tgt Ion: 113 Resp: 232524

Ion Ratio Lower Upper

113 100

111 98.8 81.0 121.6

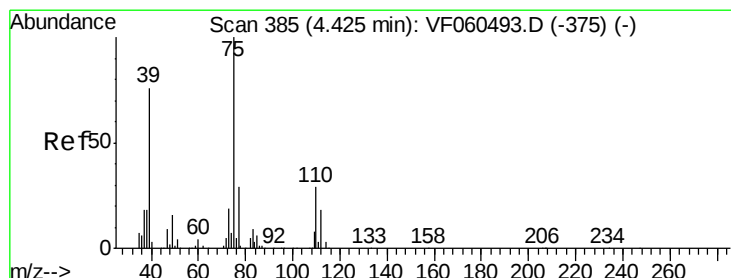
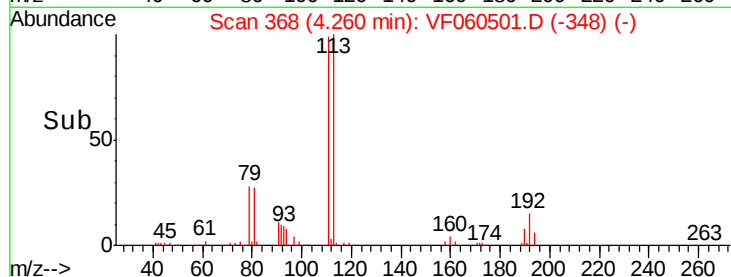
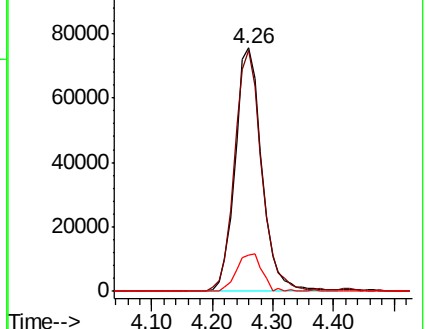
192 14.7 10.7 16.1



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



#36

1,1-Dichloropropene

Concen: 2.421 ug/l

RT: 4.43 min Scan# 385

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

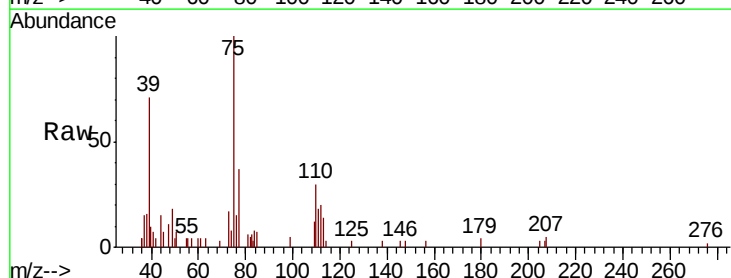
Tgt Ion: 75 Resp: 11925

Ion Ratio Lower Upper

75 100

110 30.2 14.4 43.2

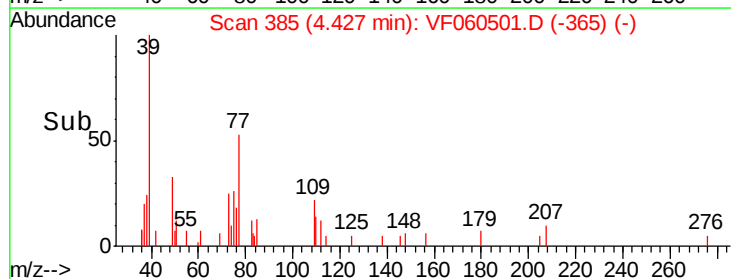
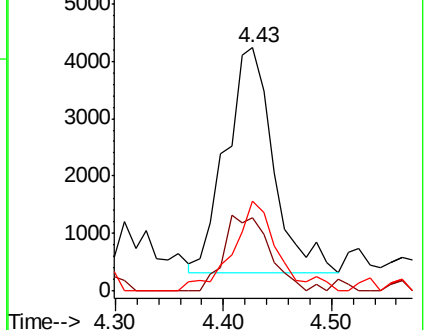
77 37.1 23.5 35.3#

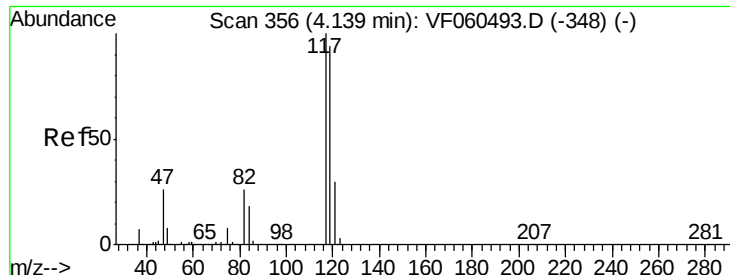


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0

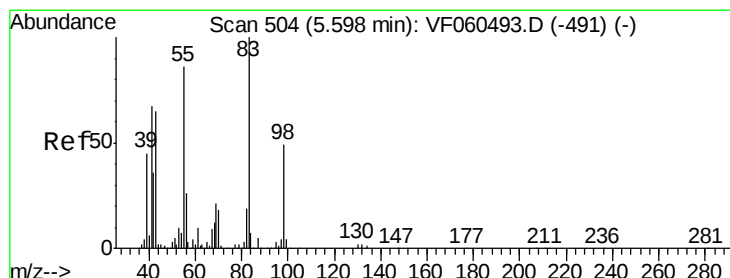
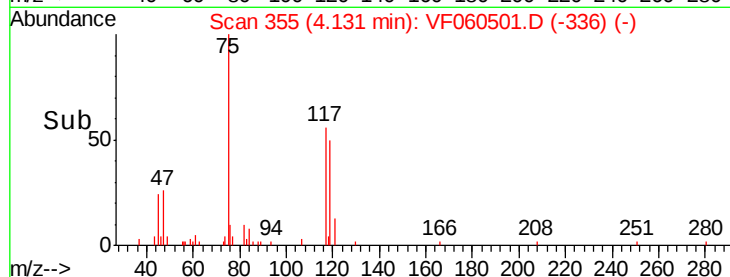
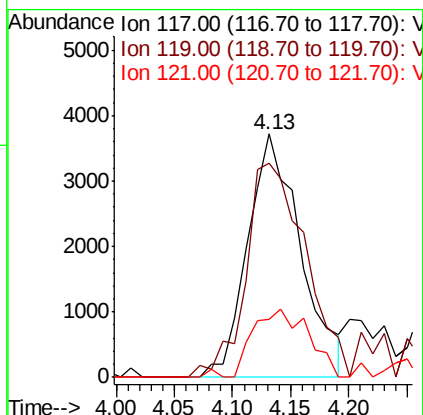
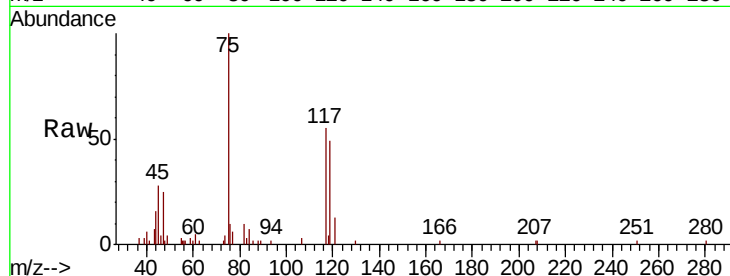




#38
Carbon Tetrachloride
Concen: 2.370 ug/l
RT: 4.13 min Scan# 355
Delta R.T. -0.01 min
Lab File: VF060501.D
Acq: 9 Oct 2018 21:00

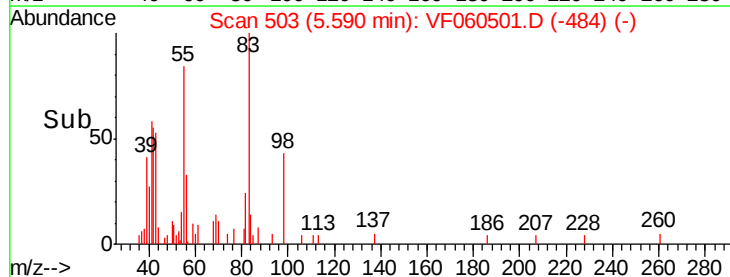
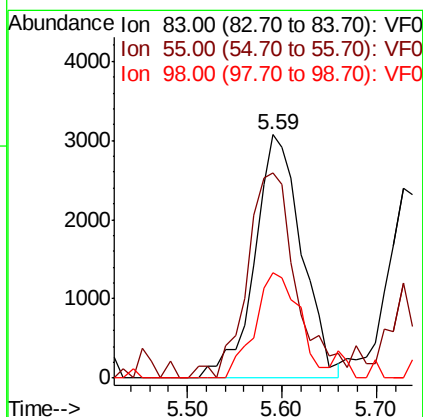
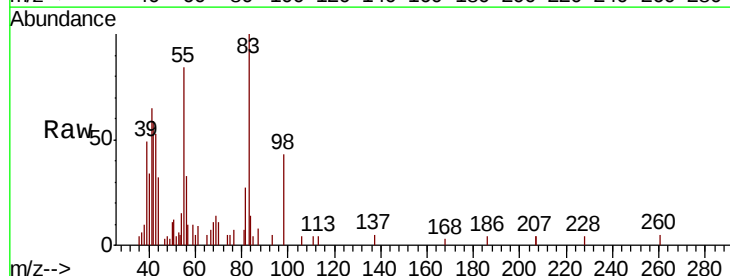
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018DL

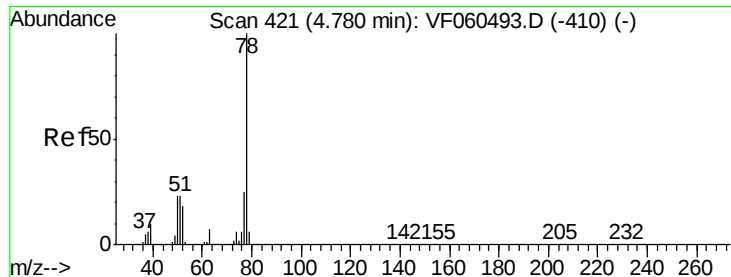
Tgt Ion: 117 Resp: 11724
Ion Ratio Lower Upper
117 100
119 87.8 75.0 112.4
121 23.6 23.8 35.6#



#39
Methylcyclohexane
Concen: 2.294 ug/l
RT: 5.59 min Scan# 503
Delta R.T. -0.01 min
Lab File: VF060501.D
Acq: 9 Oct 2018 21:00

Tgt Ion: 83 Resp: 10638
Ion Ratio Lower Upper
83 100
55 84.2 69.2 103.8
98 43.3 39.6 59.4





#40

Benzene

Concen: 2.131 ug/l

RT: 4.77 min Scan# 420

Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

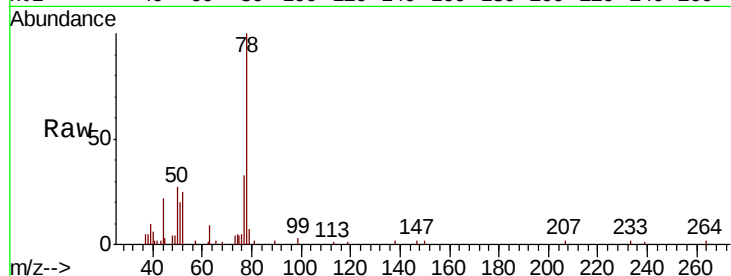
LOD-MDL-SOIL-01-QT4-2018DL

Tgt Ion: 78 Resp: 21546

Ion Ratio Lower Upper

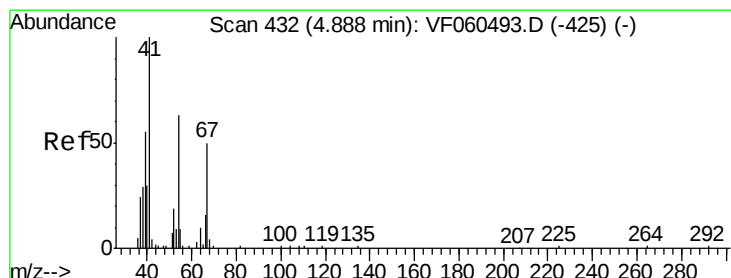
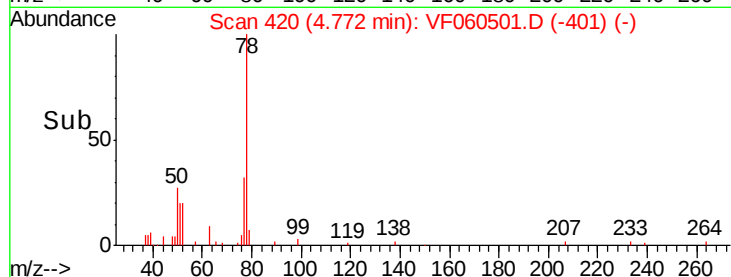
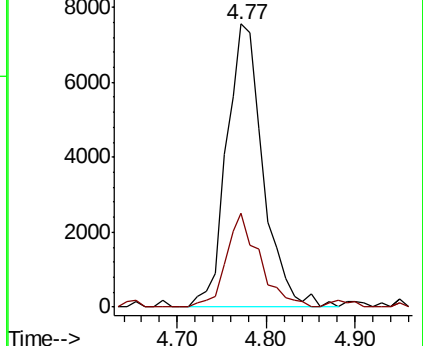
78 100

77 33.2 19.8 29.8#



Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0



#41

Methacrylonitrile

Concen: 3.185 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Tgt Ion: 41 Resp: 3148

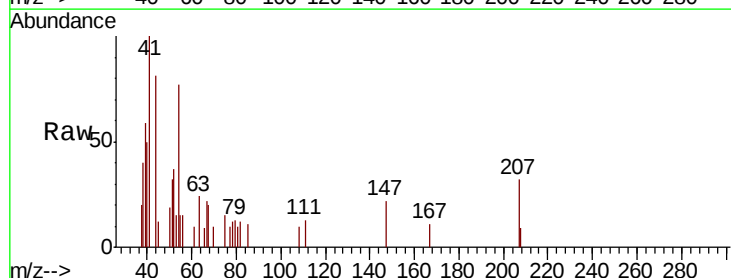
Ion Ratio Lower Upper

41 100

39 59.3 53.1 79.7

67 41.2 39.4 59.0

52 36.7 35.0 52.6

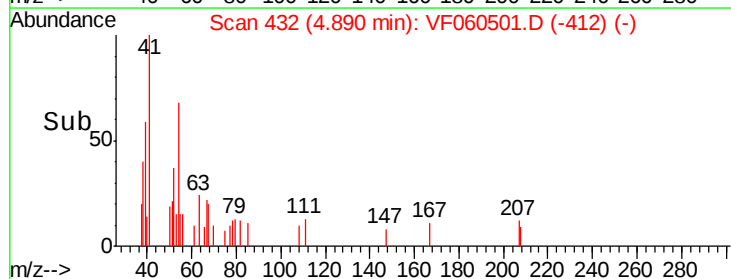
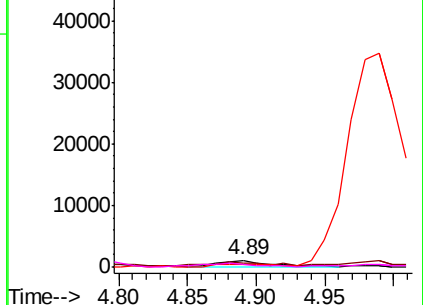


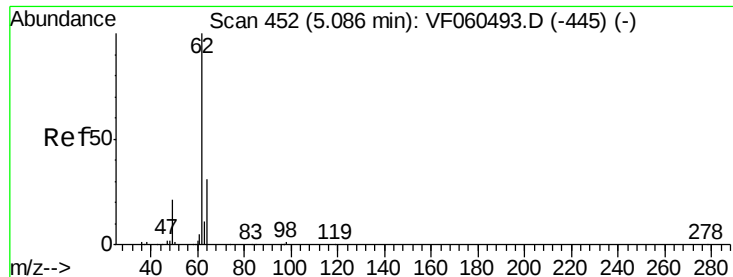
Abundance Ion 41.00 (40.70 to 41.70): VF0

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





#42

1,2-Dichloroethane

Concen: 2.332 ug/l

RT: 5.09 min Scan# 452

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

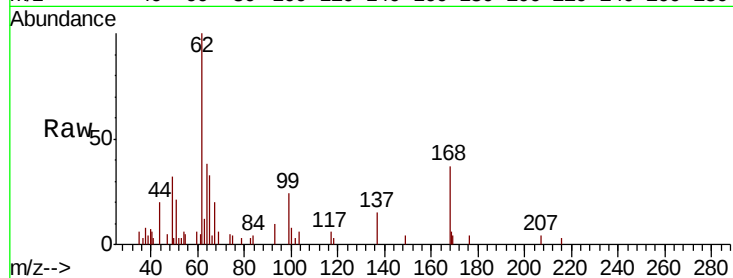
LOD-MDL-SOIL-01-QT4-2018DL

Tgt Ion: 62 Resp: 10699

Ion Ratio Lower Upper

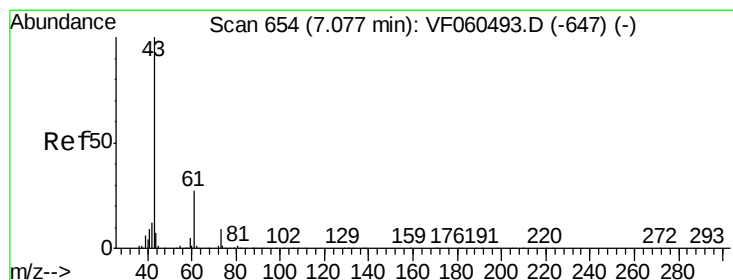
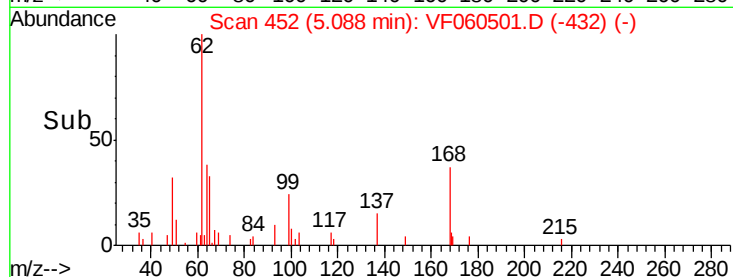
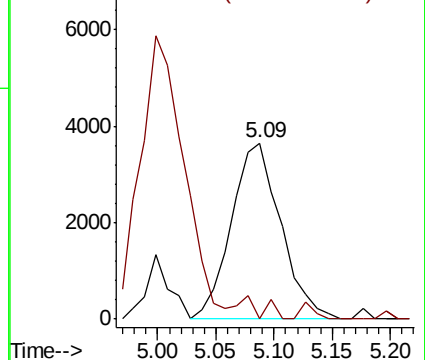
62 100

98 0.0 0.0 12.8



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#43

Isopropyl Acetate

Concen: 3.350 ug/l

RT: 7.08 min Scan# 654

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

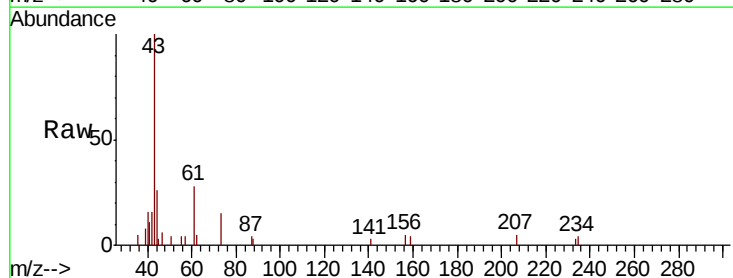
Tgt Ion: 43 Resp: 7264

Ion Ratio Lower Upper

43 100

61 27.7 21.6 32.4

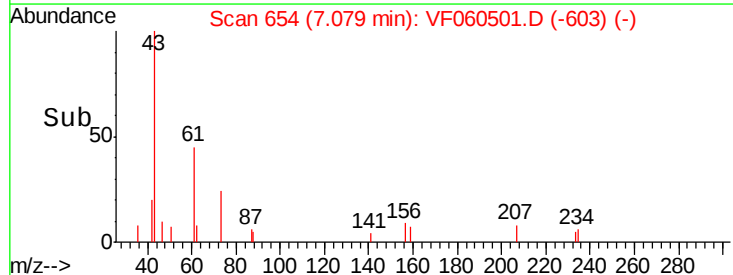
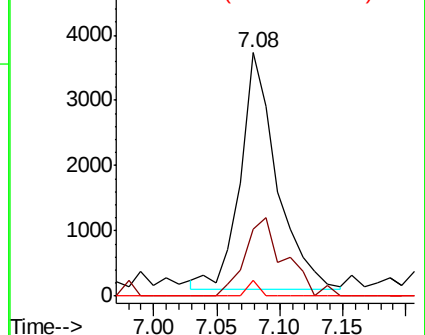
87 6.6 0.6 0.8#

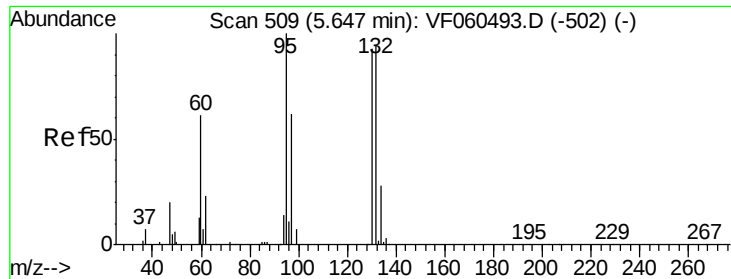


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#44

Trichloroethene

Concen: 2.214 ug/l

RT: 5.64 min Scan# 508

Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

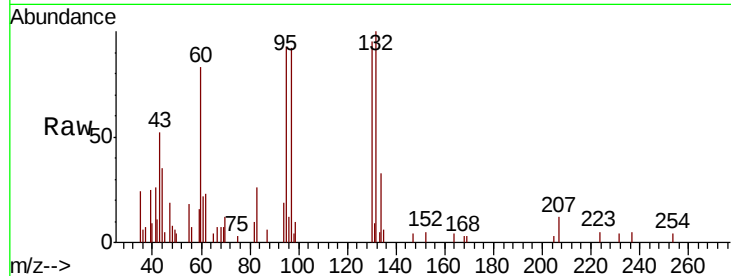
LOD-MDL-SOIL-01-QT4-2018DL

Tgt Ion:130 Resp: 6974

Ion Ratio Lower Upper

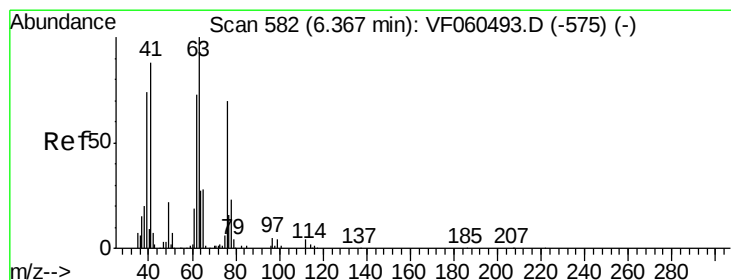
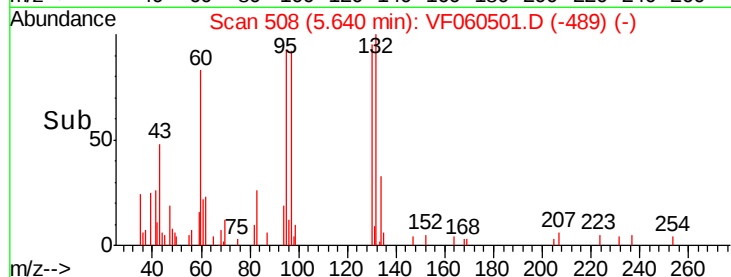
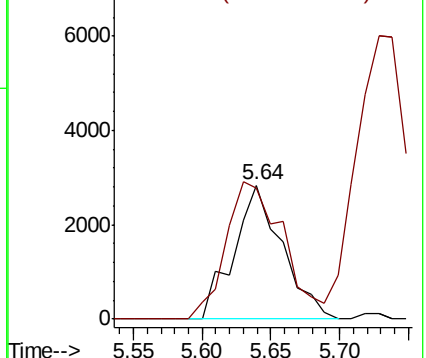
130 100

95 97.6 0.0 216.0



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0



#45

1,2-Dichloropropane

Concen: 2.290 ug/l

RT: 6.38 min Scan# 583

Delta R.T. 0.01 min

Lab File: VF060501.D

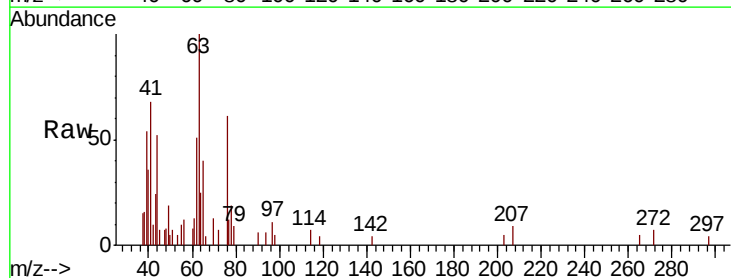
Acq: 9 Oct 2018 21:00

Tgt Ion: 63 Resp: 5669

Ion Ratio Lower Upper

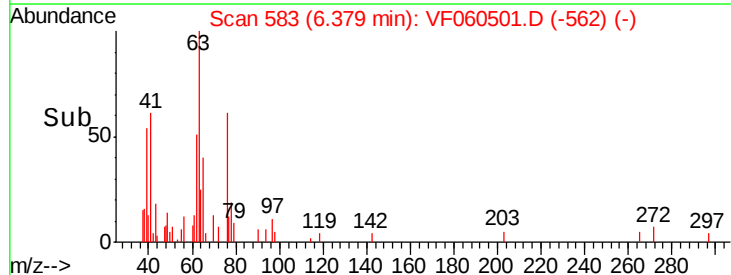
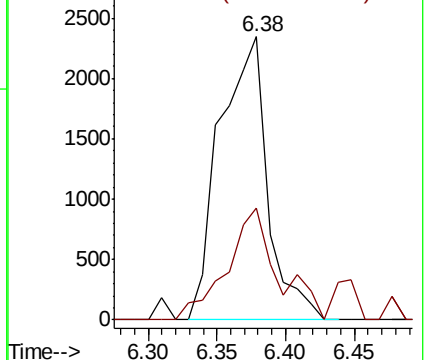
63 100

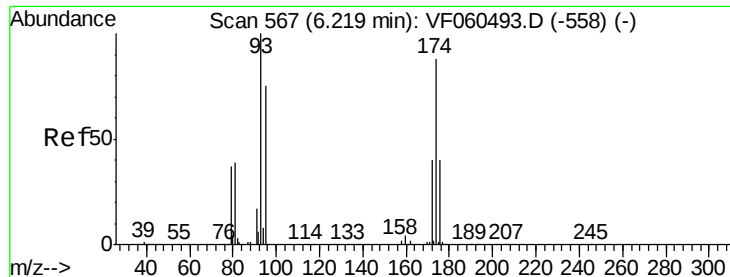
65 39.5 22.2 33.2#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0





#46

Dibromomethane

Concen: 2.218 ug/l

RT: 6.21 min Scan# 566

Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

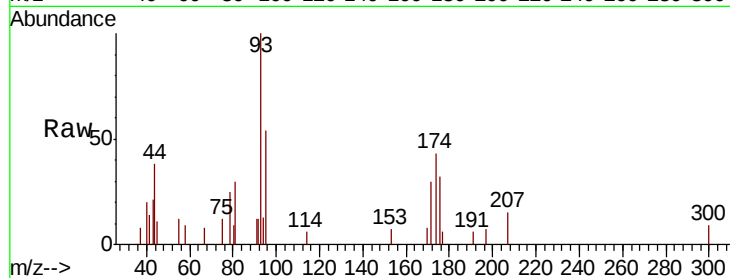
Tgt Ion: 93 Resp: 4405

Ion Ratio Lower Upper

93 100

95 53.6 60.0 90.0#

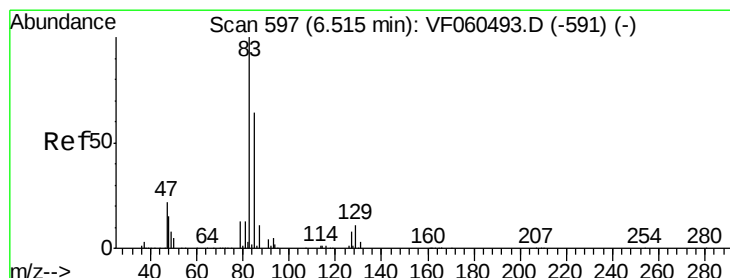
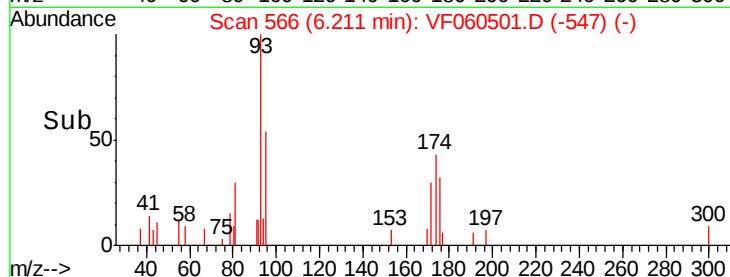
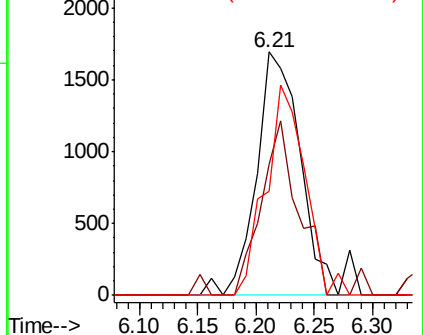
174 43.0 71.0 106.6#



Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V



#47

Bromodichloromethane

Concen: 2.389 ug/l

RT: 6.51 min Scan# 596

Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

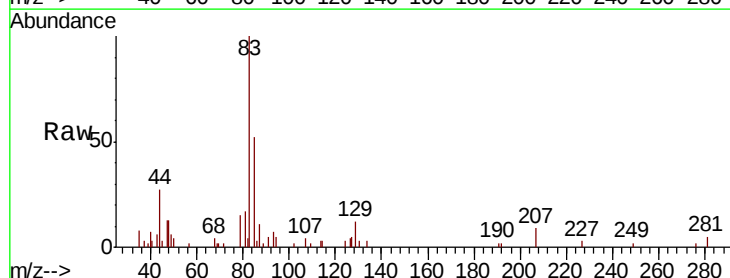
Tgt Ion: 83 Resp: 11979

Ion Ratio Lower Upper

83 100

85 51.9 51.2 76.8

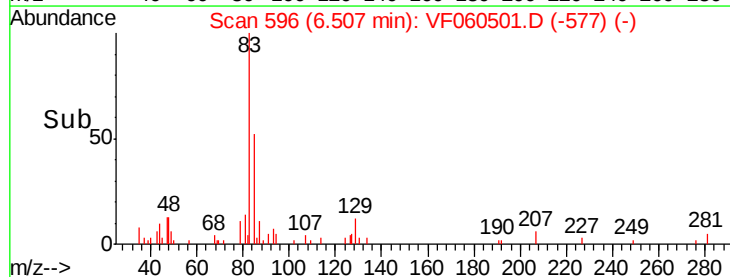
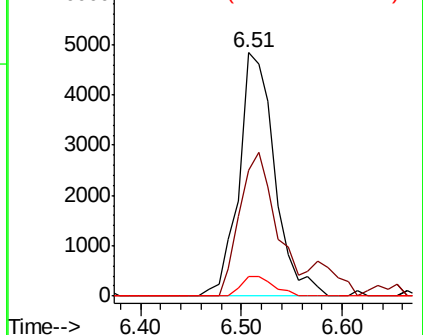
127 8.1 6.5 9.7

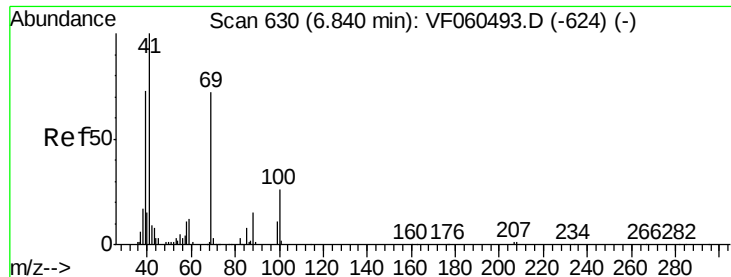


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V





#48

Methyl methacrylate

Concen: 2.382 ug/l

RT: 6.84 min Scan# 630

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

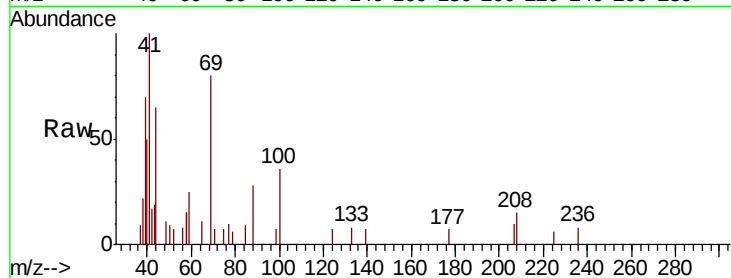
Tgt Ion: 41 Resp: 3498

Ion Ratio Lower Upper

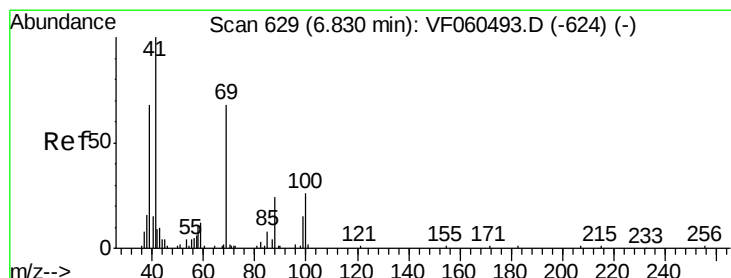
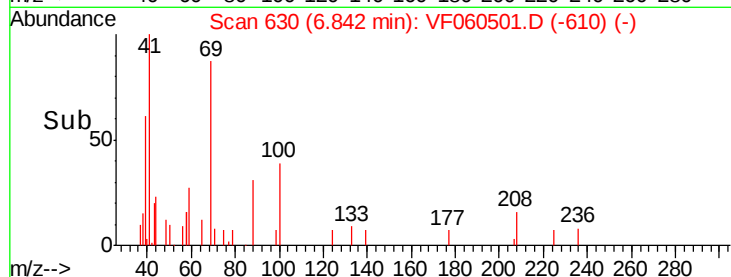
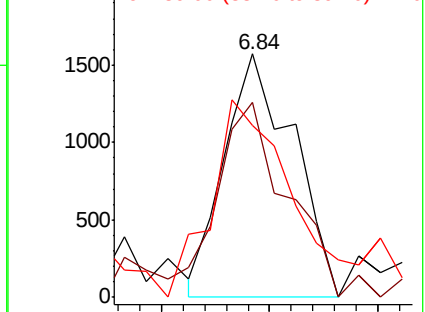
41 100

69 79.8 57.8 86.8

39 70.5 59.1 88.7



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0



#49

1,4-Dioxane

Concen: 6.347 ug/l

RT: 6.84 min Scan# 630

Delta R.T. 0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

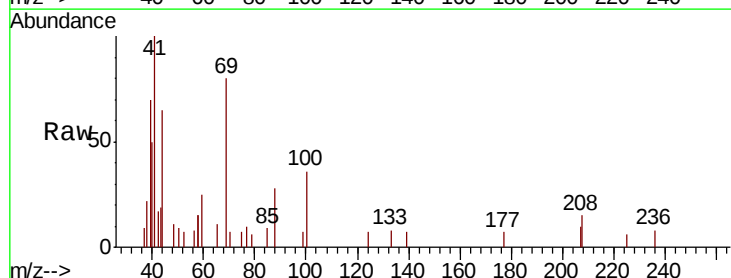
Tgt Ion: 88 Resp: 670

Ion Ratio Lower Upper

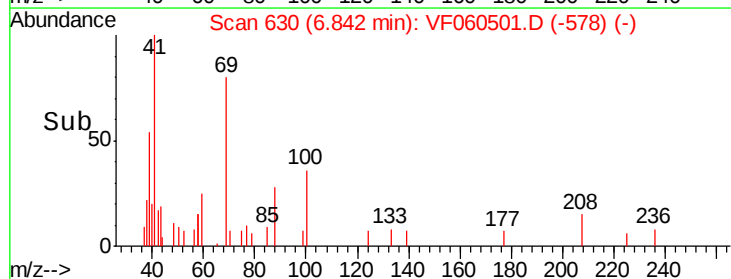
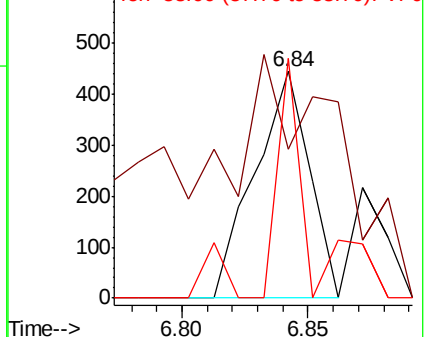
88 100

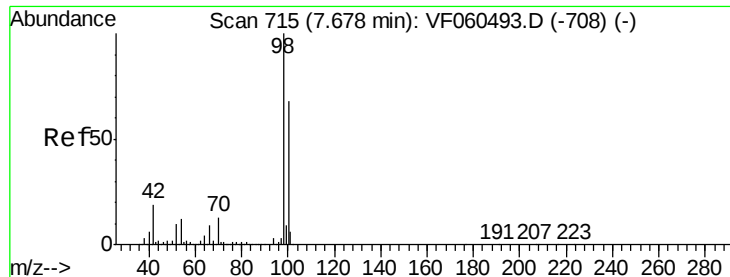
43 65.8 40.2 60.2#

58 105.6 36.3 54.5#



Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 51.395 ug/l

RT: 7.68 min Scan# 715

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

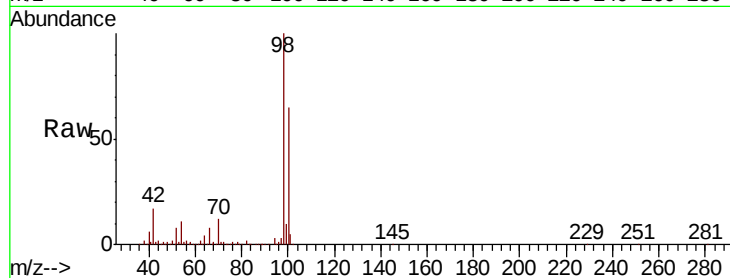
LOD-MDL-SOIL-01-QT4-2018DL

Tgt Ion: 98 Resp: 481475

Ion Ratio Lower Upper

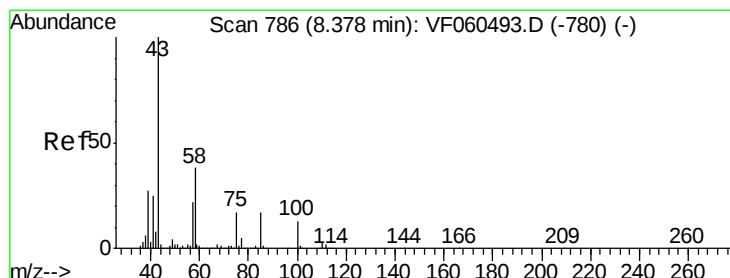
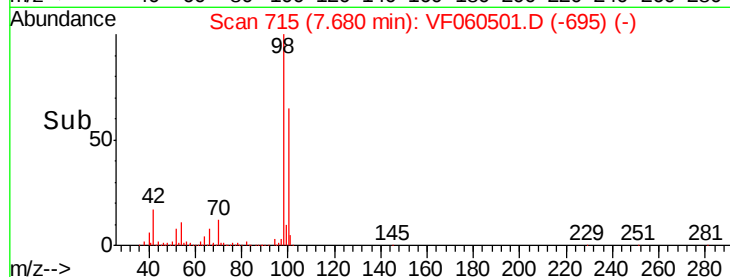
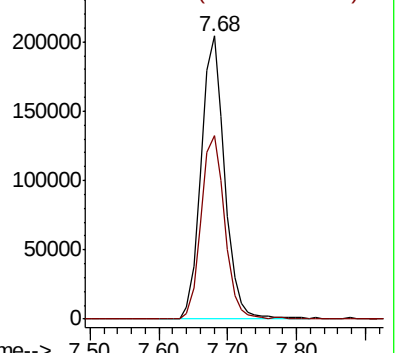
98 100

100 65.1 54.4 81.6



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#51

4-Methyl-2-Pentanone

Concen: 23.359 ug/l

RT: 8.38 min Scan# 786

Delta R.T. 0.00 min

Lab File: VF060501.D

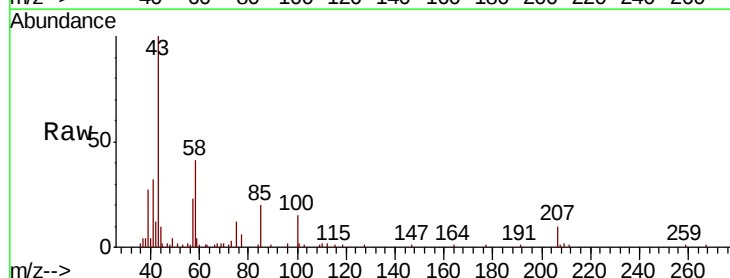
Acq: 9 Oct 2018 21:00

Tgt Ion: 43 Resp: 35331

Ion Ratio Lower Upper

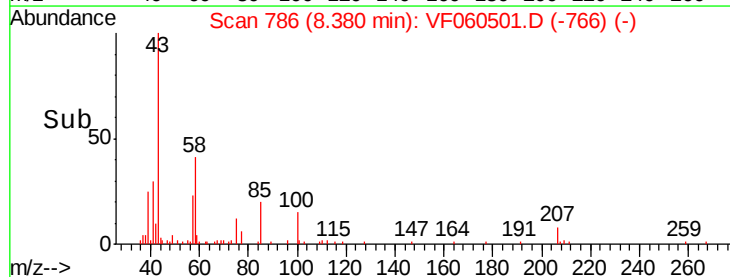
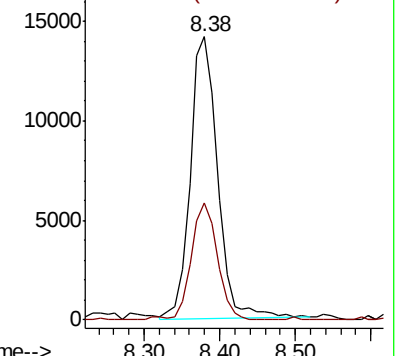
43 100

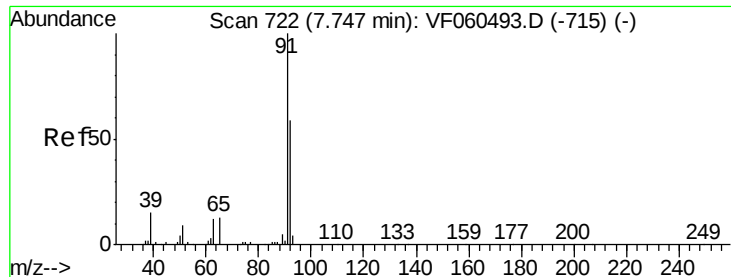
58 41.3 30.4 45.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#52

Toluene

Concen: 1.991 ug/l

RT: 7.74 min Scan# 721

Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

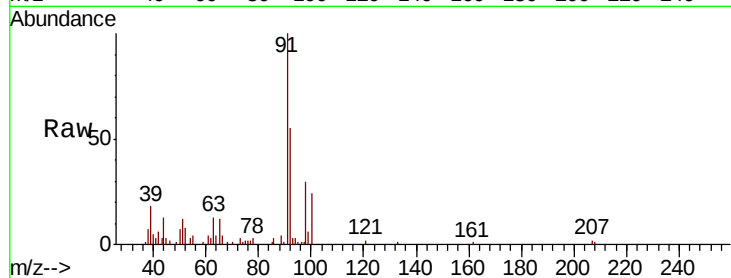
LOD-MDL-SOIL-01-QT4-2018DL

Tgt Ion: 92 Resp: 12680

Ion Ratio Lower Upper

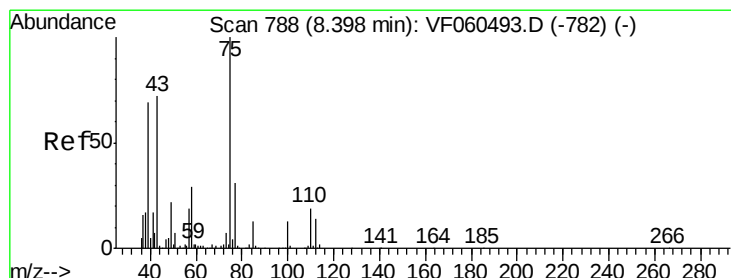
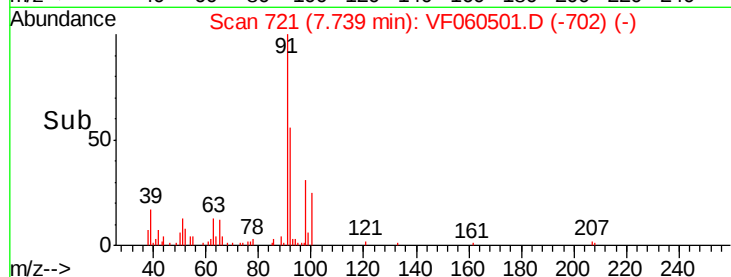
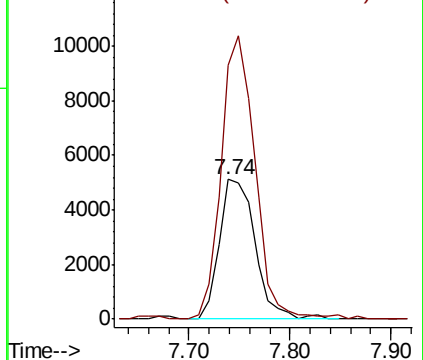
92 100

91 182.2 136.6 205.0



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#53

t-1,3-Dichloropropene

Concen: 2.016 ug/l

RT: 8.40 min Scan# 788

Delta R.T. 0.00 min

Lab File: VF060501.D

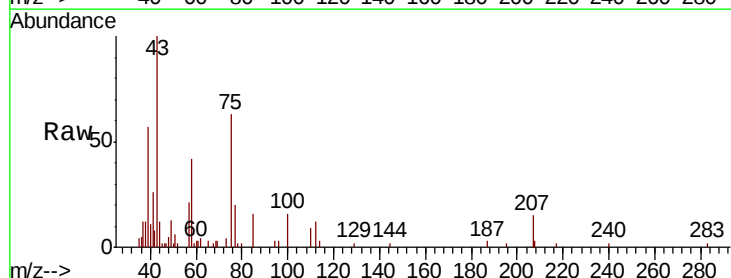
Acq: 9 Oct 2018 21:00

Tgt Ion: 75 Resp: 7854

Ion Ratio Lower Upper

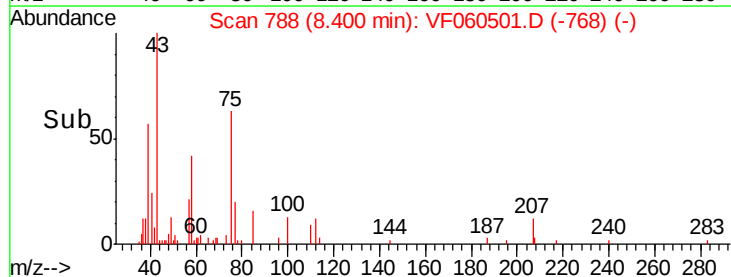
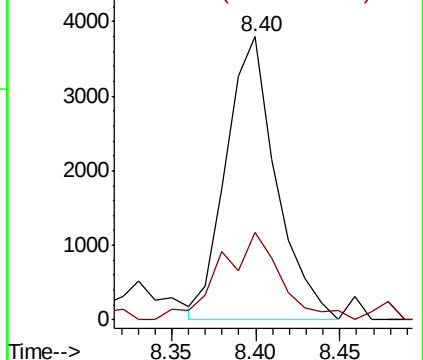
75 100

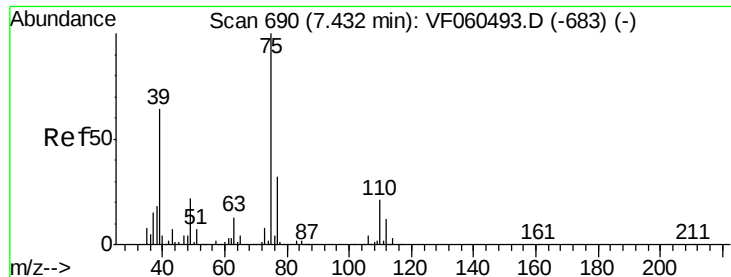
77 31.0 25.2 37.8



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#54

cis-1,3-Dichloropropene

Concen: 2.211 ug/l

RT: 7.43 min Scan# 690

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

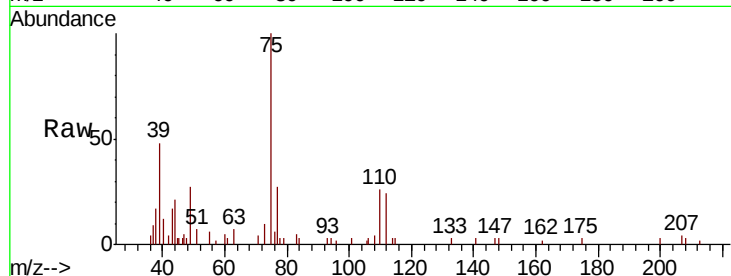
Tgt Ion: 75 Resp: 10030

Ion Ratio Lower Upper

75 100

77 27.0 26.0 39.0

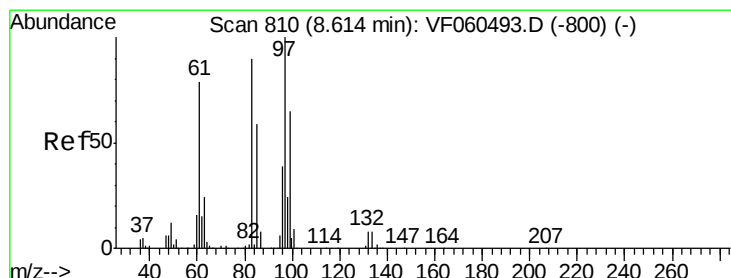
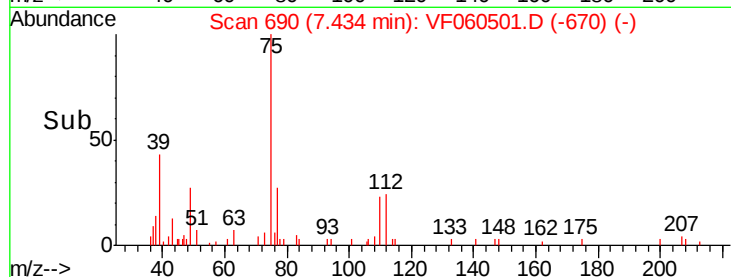
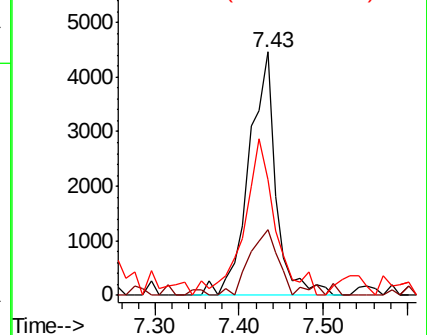
39 47.6 51.2 76.8#



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



#55

1,1,2-Trichloroethane

Concen: 2.063 ug/l

RT: 8.61 min Scan# 809

Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Tgt Ion: 97 Resp: 4037

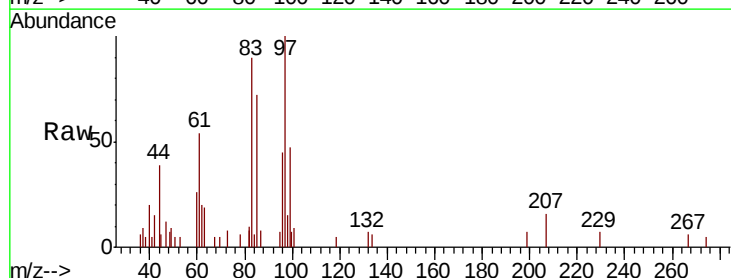
Ion Ratio Lower Upper

97 100

83 89.8 71.9 107.9

85 72.1 47.8 71.8#

99 53.7 52.0 78.0

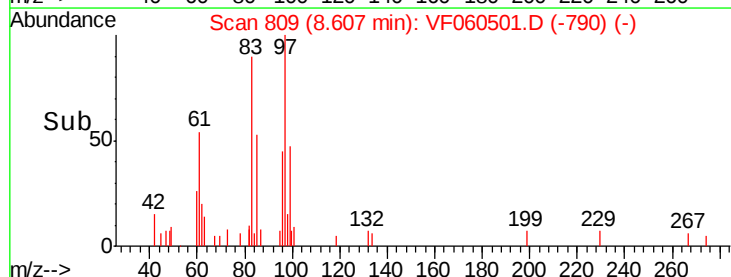
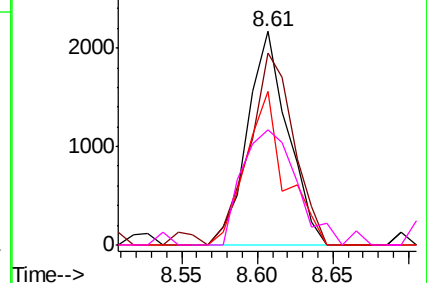


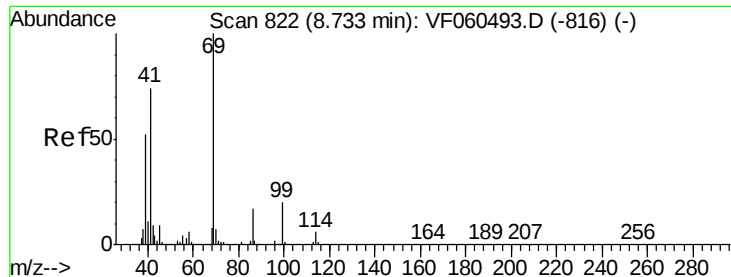
Abundance Ion 97.00 (96.70 to 97.70): VF0

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





#56

Ethyl methacrylate

Concen: 4.621 ug/l

RT: 8.73 min Scan# 822

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

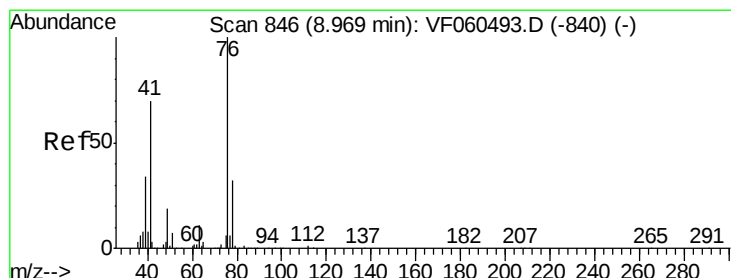
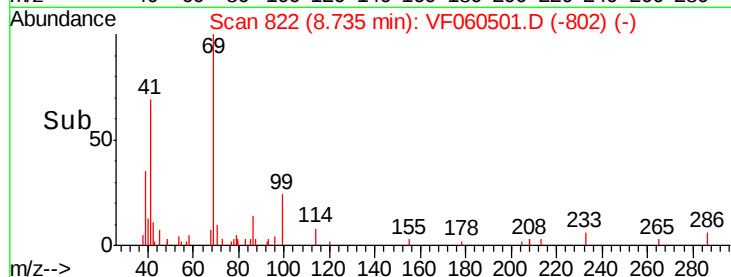
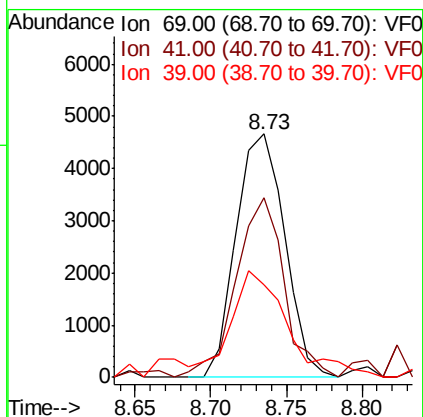
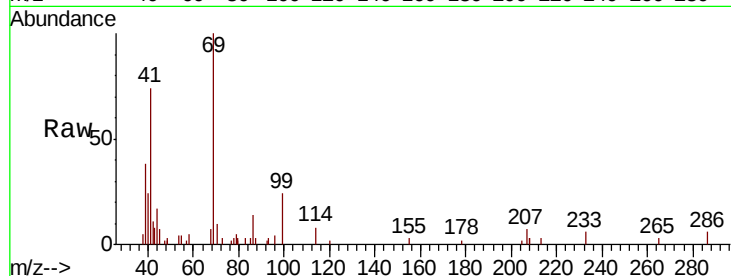
Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

Tgt Ion:	69	Resp:	10465
Ion	Ratio	Lower	Upper
69	100		
41	73.8	59.3	88.9
39	38.0	41.8	62.6#



#57

1,3-Dichloropropane

Concen: 2.290 ug/l

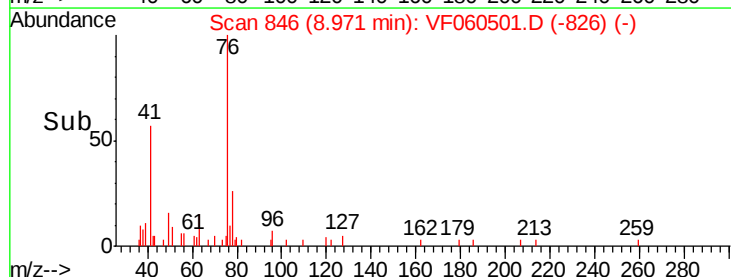
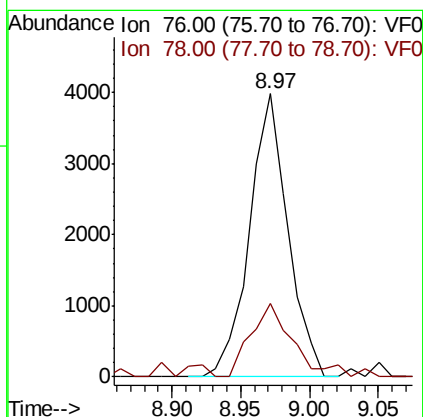
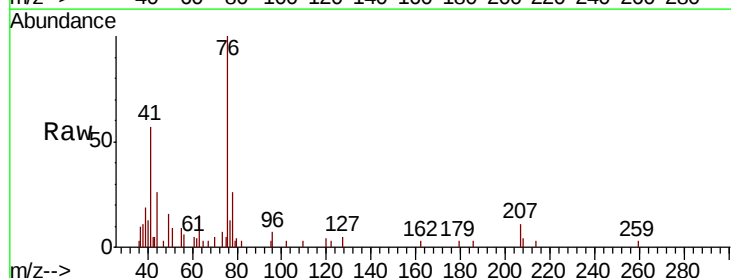
RT: 8.97 min Scan# 846

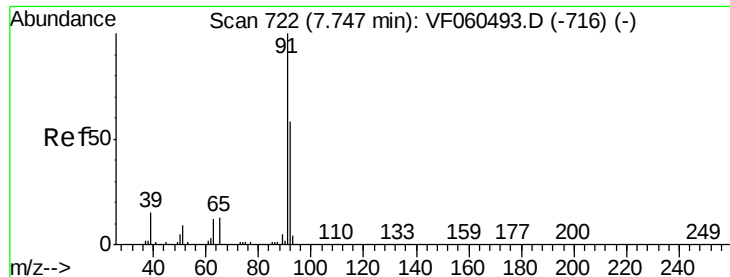
Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Tgt Ion:	76	Resp:	7718
Ion	Ratio	Lower	Upper
76	100		
78	25.9	25.3	37.9





#58

2-Chloroethyl Vinyl ether

Concen: 13.179 ug/l

RT: 7.74 min Scan# 721

Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

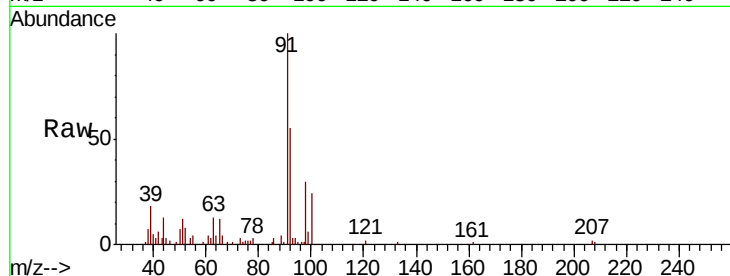
LOD-MDL-SOIL-01-QT4-2018DL

Tgt Ion: 63 Resp: 3033

Ion Ratio Lower Upper

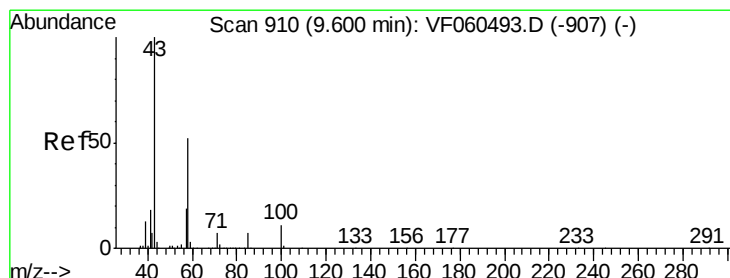
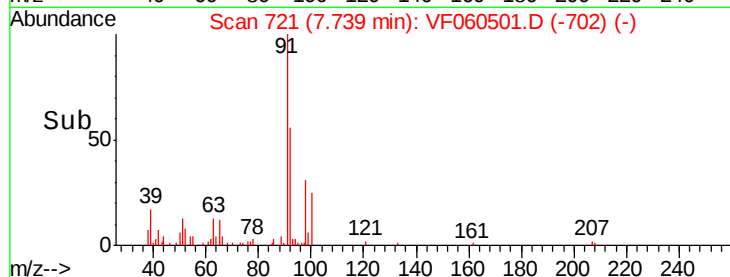
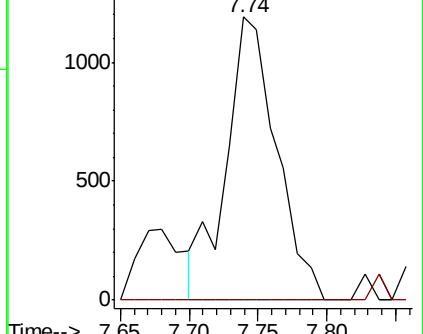
63 100

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): V



#59

2-Hexanone

Concen: 30.481 ug/l

RT: 9.60 min Scan# 910

Delta R.T. 0.00 min

Lab File: VF060501.D

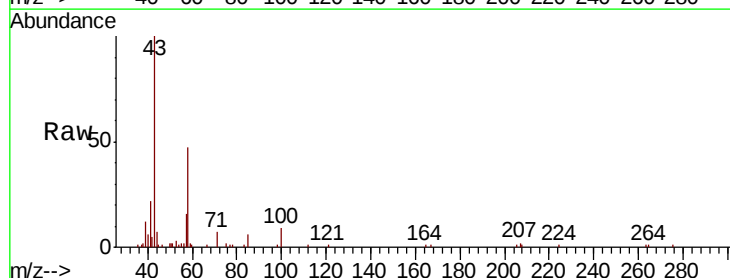
Acq: 9 Oct 2018 21:00

Tgt Ion: 43 Resp: 33349

Ion Ratio Lower Upper

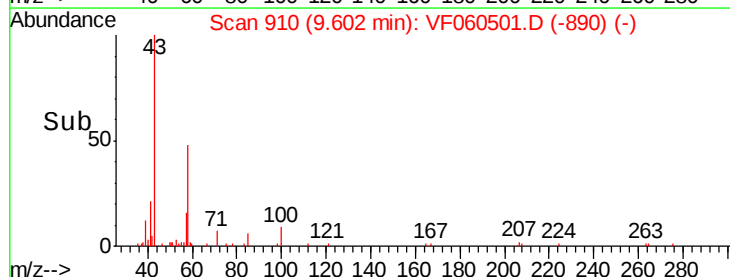
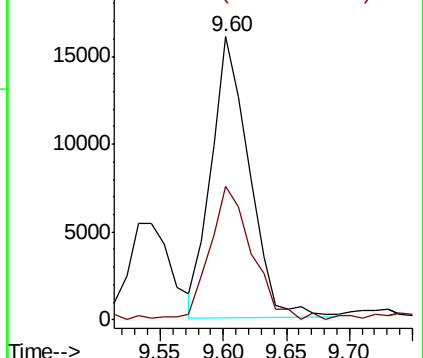
43 100

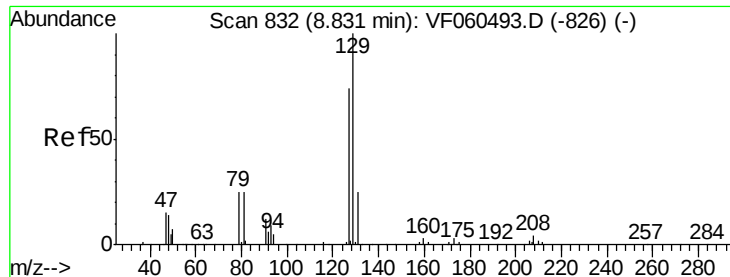
58 47.4 24.2 72.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#60

Dibromochloromethane

Concen: 2.379 ug/l

RT: 8.83 min Scan# 832

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

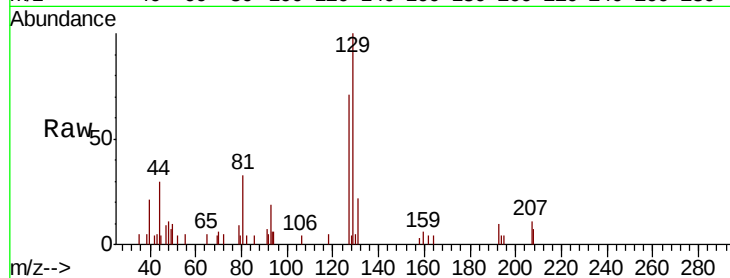
LOD-MDL-SOIL-01-QT4-2018DL

Tgt Ion:129 Resp: 7308

Ion Ratio Lower Upper

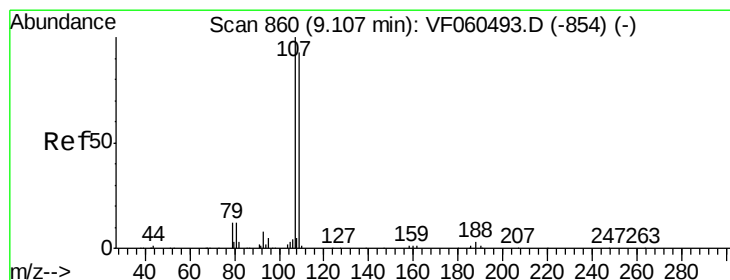
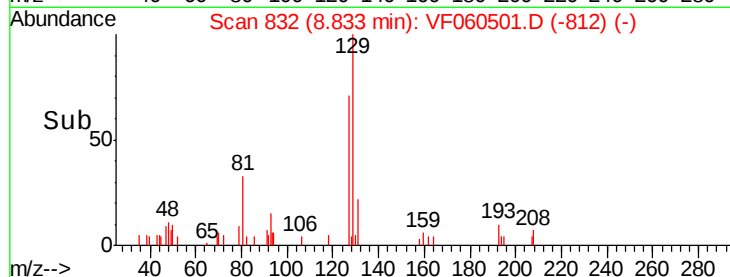
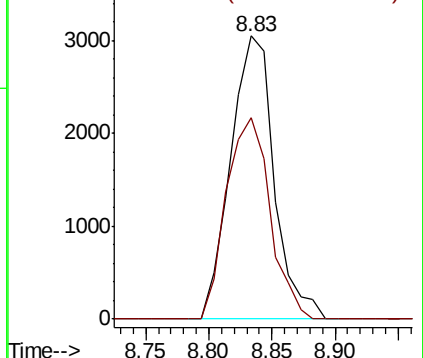
129 100

127 71.2 37.0 110.9



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#61

1,2-Dibromoethane

Concen: 2.006 ug/l

RT: 9.10 min Scan# 859

Delta R.T. -0.01 min

Lab File: VF060501.D

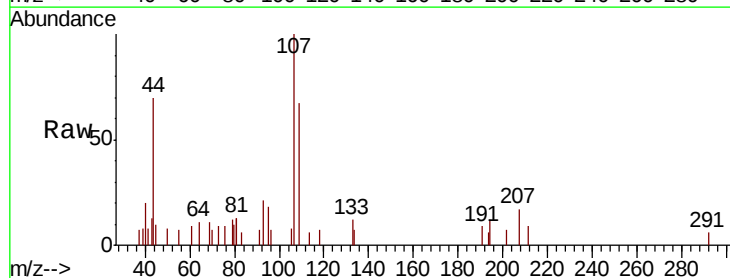
Acq: 9 Oct 2018 21:00

Tgt Ion:107 Resp: 4436

Ion Ratio Lower Upper

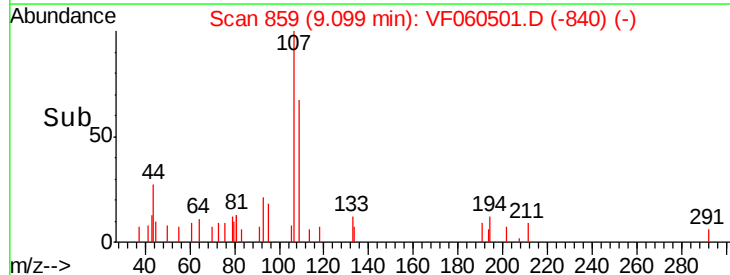
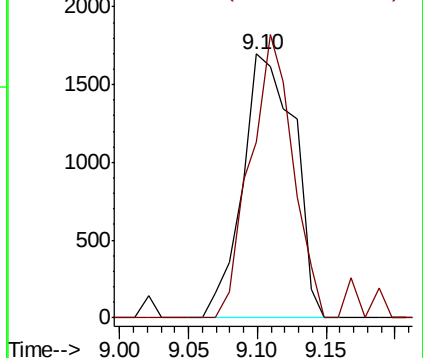
107 100

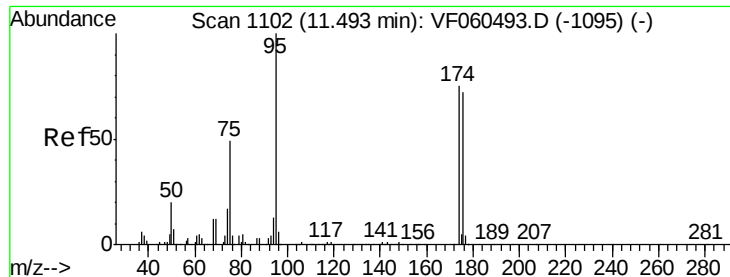
109 66.7 74.6 112.0#



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#62

4-Bromofluorobenzene

Concen: 53.782 ug/l

RT: 11.48 min Scan# 1101

Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

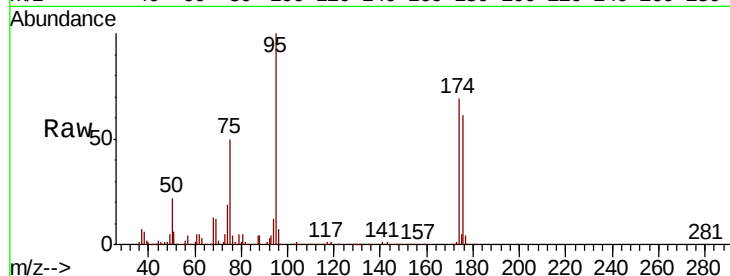
Tgt Ion: 95 Resp: 221061

Ion Ratio Lower Upper

95 100

174 68.6 0.0 150.4

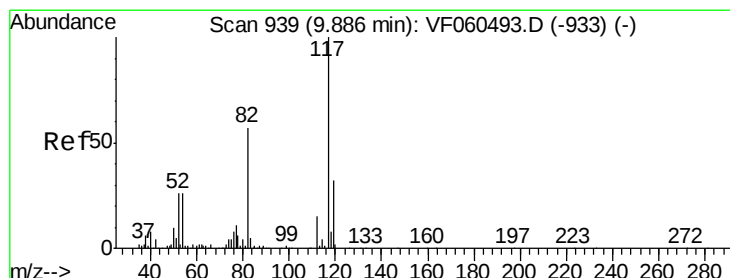
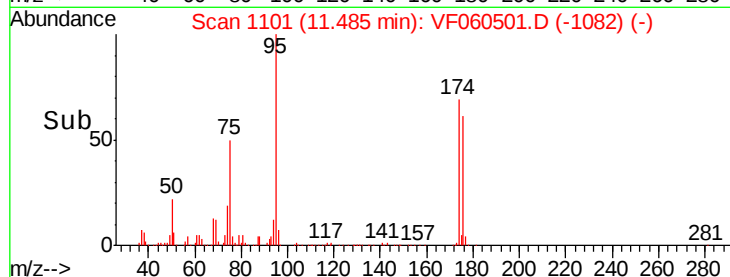
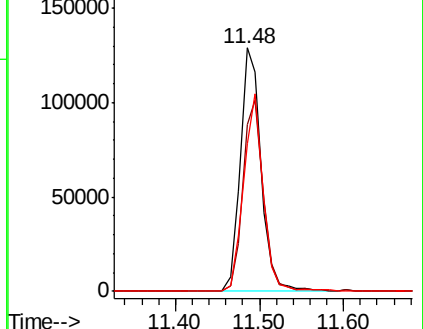
176 60.6 0.0 144.6



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: 9.89 min Scan# 939

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

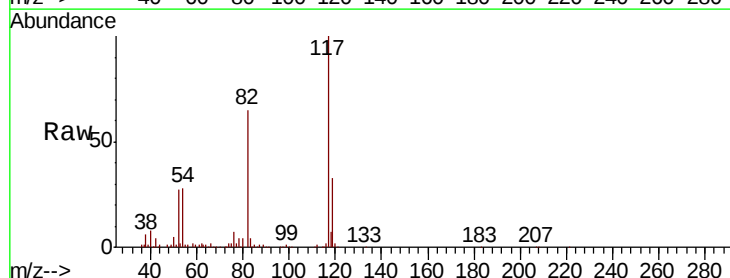
Tgt Ion: 117 Resp: 364265

Ion Ratio Lower Upper

117 100

82 64.7 45.6 68.4

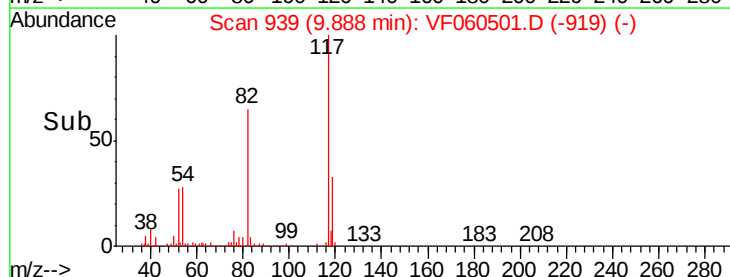
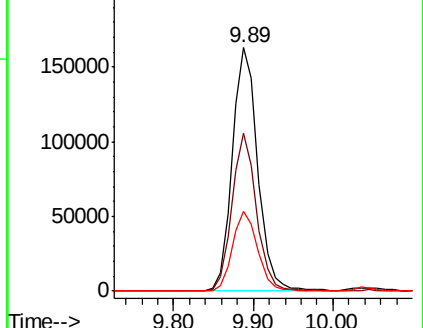
119 32.8 25.3 37.9

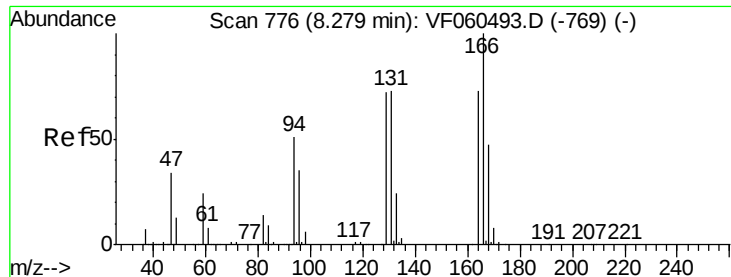


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#64

Tetrachloroethene

Concen: 2.640 ug/l

RT: 8.28 min Scan# 776

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

Tgt Ion:164 Resp: 7623

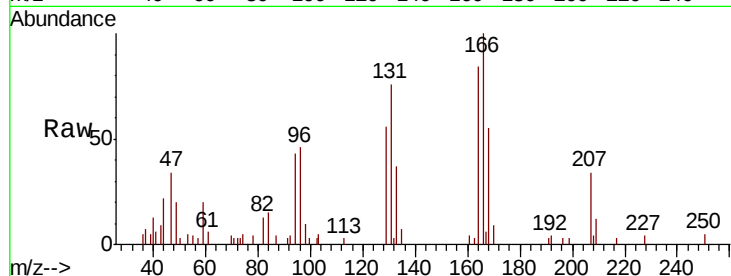
Ion Ratio Lower Upper

164 100

166 119.6 109.4 164.0

129 67.0 78.9 118.3#

131 91.3 79.5 119.3



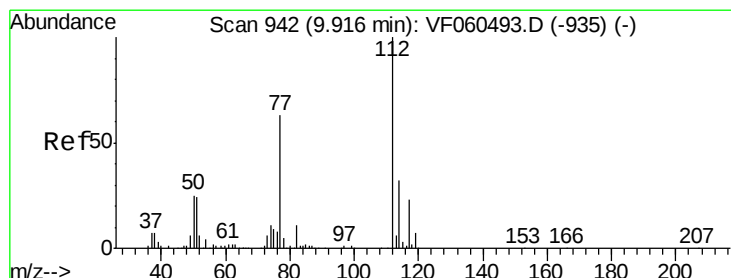
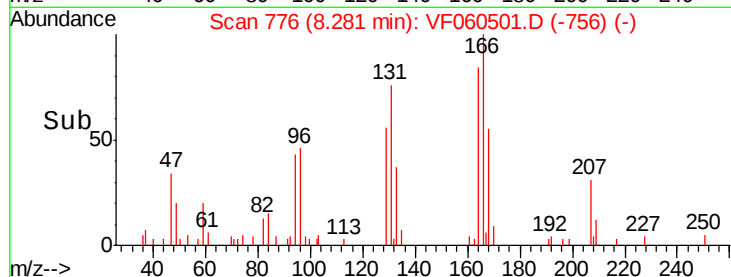
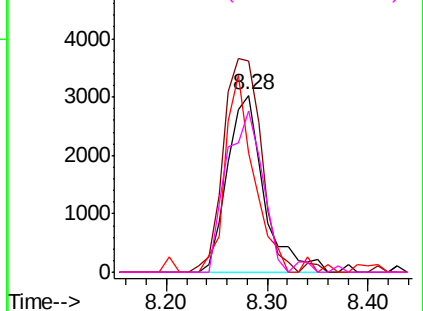
Abundance

Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#65

Chlorobenzene

Concen: 2.204 ug/l

RT: 9.92 min Scan# 942

Delta R.T. 0.00 min

Lab File: VF060501.D

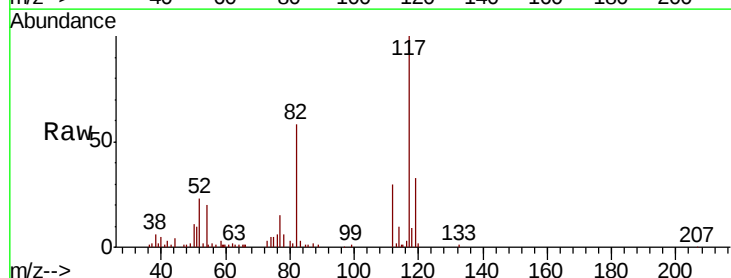
Acq: 9 Oct 2018 21:00

Tgt Ion:112 Resp: 15593

Ion Ratio Lower Upper

112 100

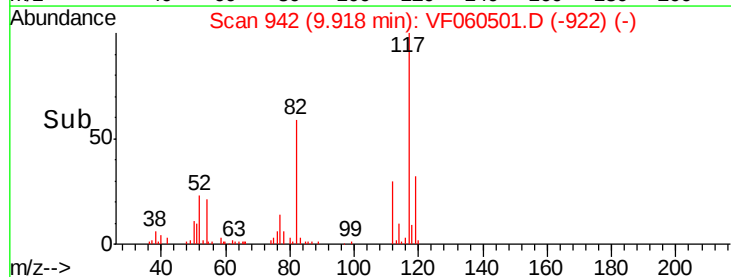
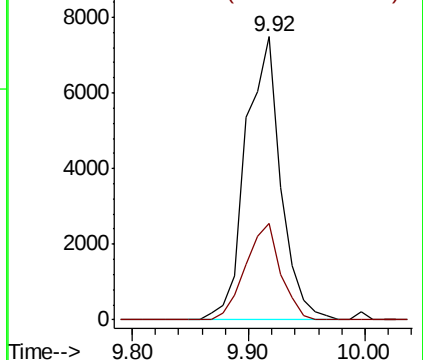
114 34.3 25.9 38.9

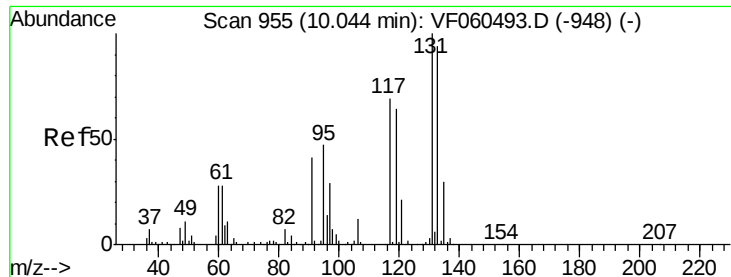


Abundance

Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V





#66

1,1,1,2-Tetrachloroethane

Concen: 1.928 ug/l

RT: 10.04 min Scan# 954

Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

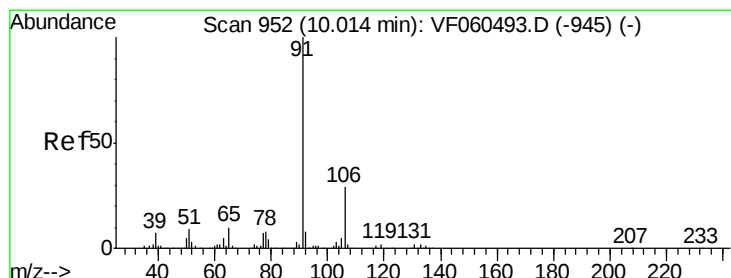
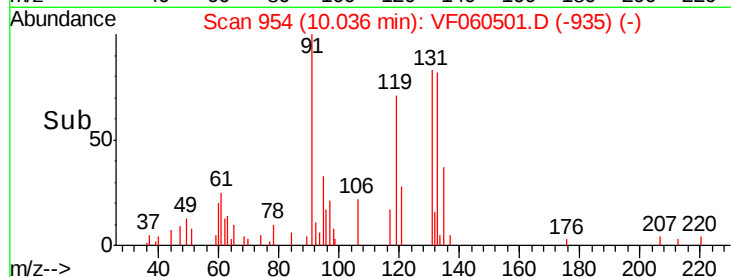
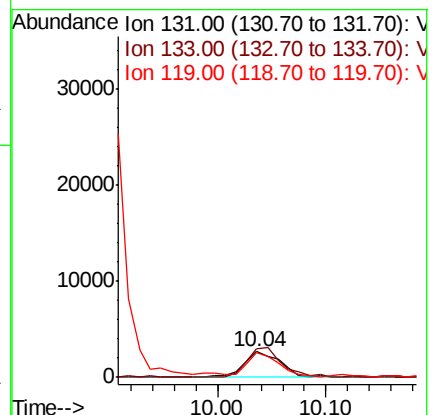
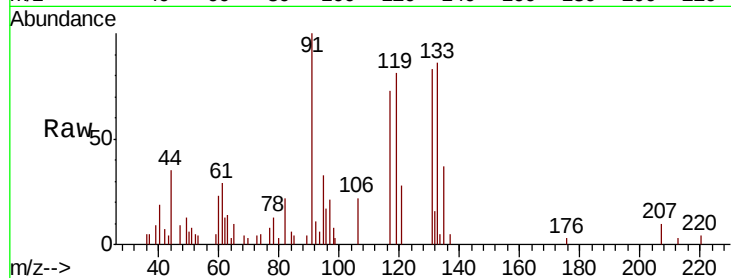
Tgt Ion:131 Resp: 6144

Ion Ratio Lower Upper

131 100

133 109.3 47.1 141.4

119 98.4 32.0 96.2#



#67

Ethyl Benzene

Concen: 2.230 ug/l

RT: 10.01 min Scan# 951

Delta R.T. -0.01 min

Lab File: VF060501.D

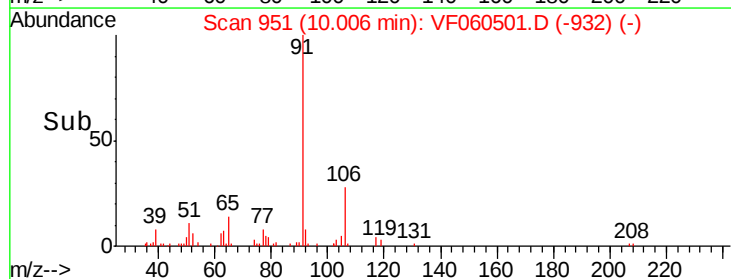
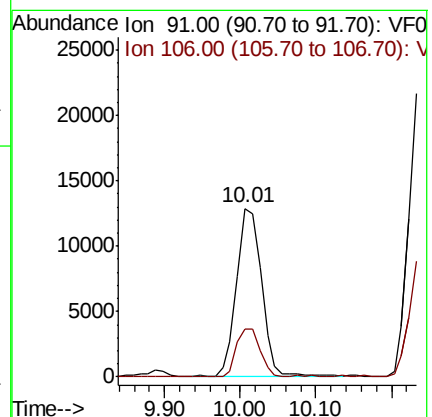
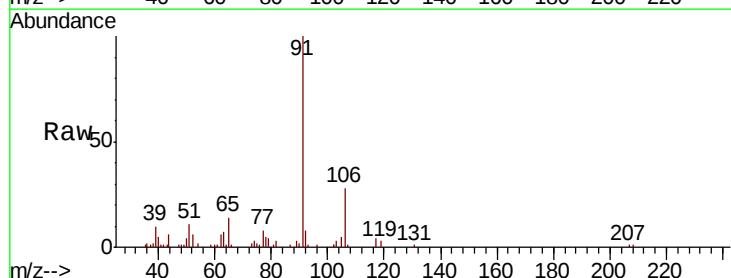
Acq: 9 Oct 2018 21:00

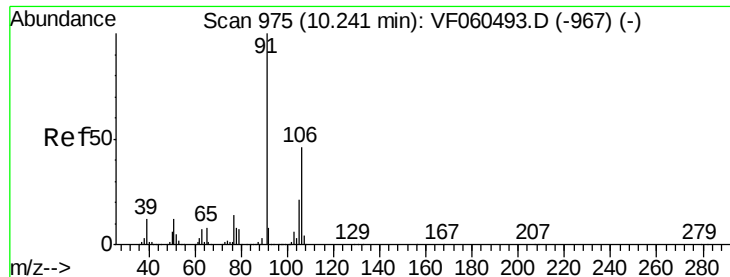
Tgt Ion: 91 Resp: 29765

Ion Ratio Lower Upper

91 100

106 28.4 23.3 34.9

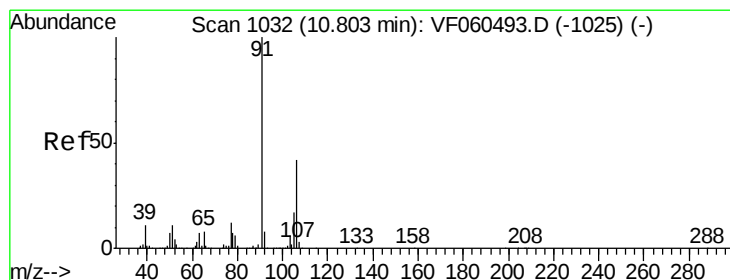
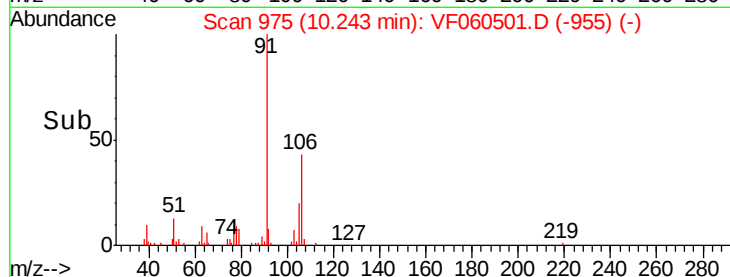
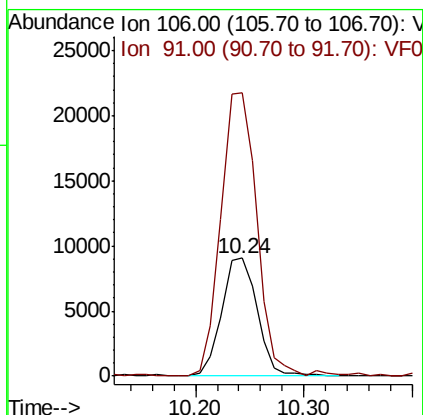
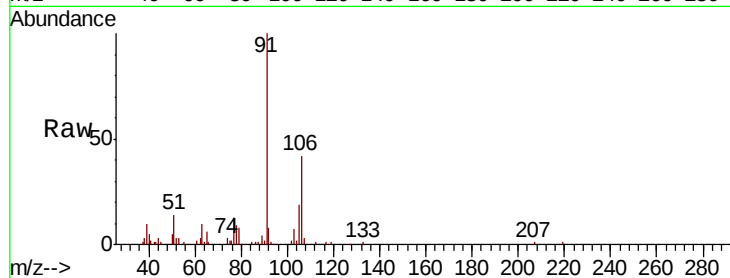




#68
m/p-Xylenes
Concen: 4.574 ug/l
RT: 10.24 min Scan# 975
Delta R.T. 0.00 min
Lab File: VF060501.D
Acq: 9 Oct 2018 21:00

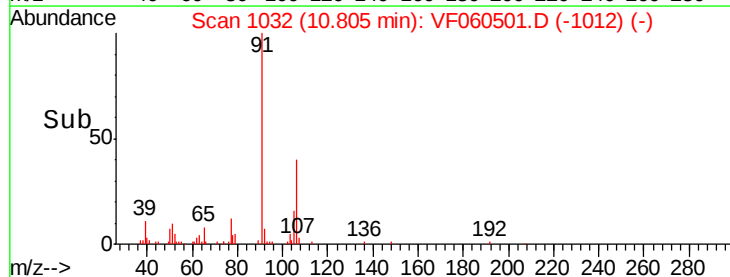
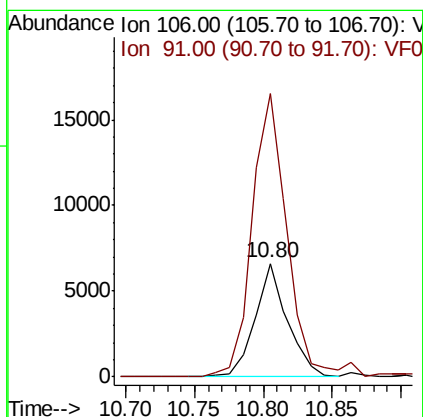
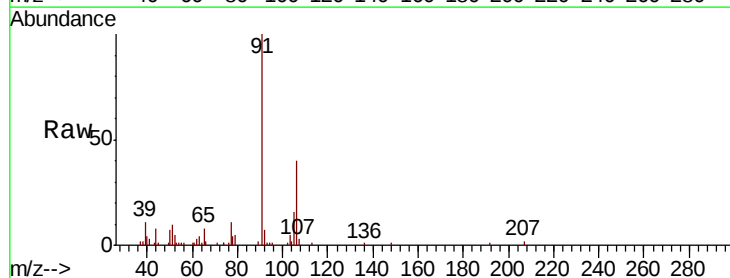
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018DL

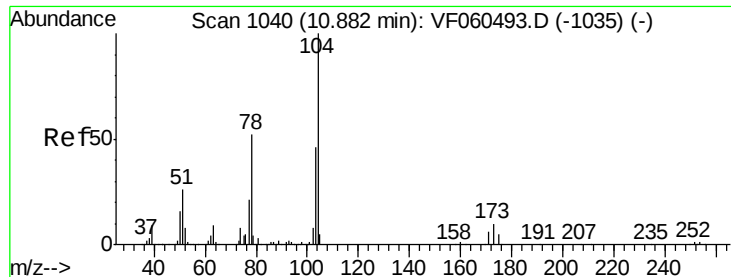
Tgt Ion:106 Resp: 20839
Ion Ratio Lower Upper
106 100
91 239.9 174.6 262.0



#69
o-Xylene
Concen: 2.208 ug/l
RT: 10.80 min Scan# 1032
Delta R.T. 0.00 min
Lab File: VF060501.D
Acq: 9 Oct 2018 21:00

Tgt Ion:106 Resp: 10940
Ion Ratio Lower Upper
106 100
91 249.2 118.8 356.3





#70

Styrene

Concen: 2.518 ug/l

RT: 10.87 min Scan# 1039

Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

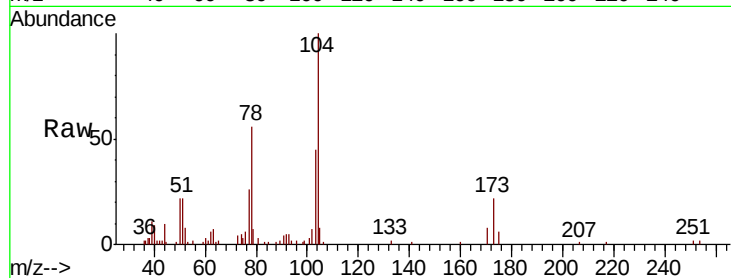
Tgt Ion:104 Resp: 17959

Ion Ratio Lower Upper

104 100

78 56.4 42.7 64.1

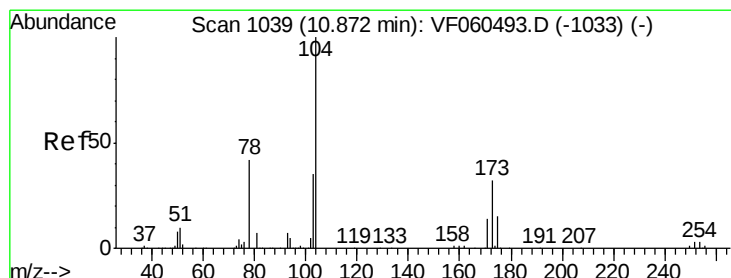
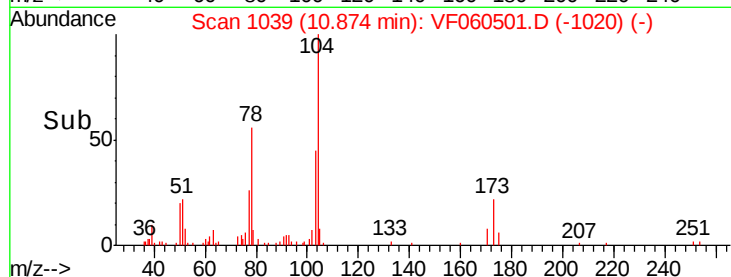
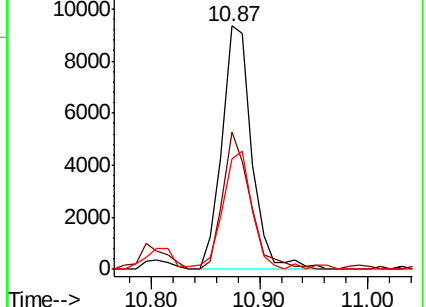
103 45.3 37.6 56.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 2.229 ug/l

RT: 10.87 min Scan# 1039

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

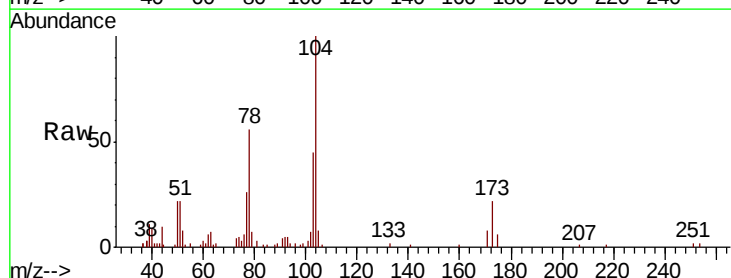
Tgt Ion:173 Resp: 3601

Ion Ratio Lower Upper

173 100

175 27.6 23.2 69.6

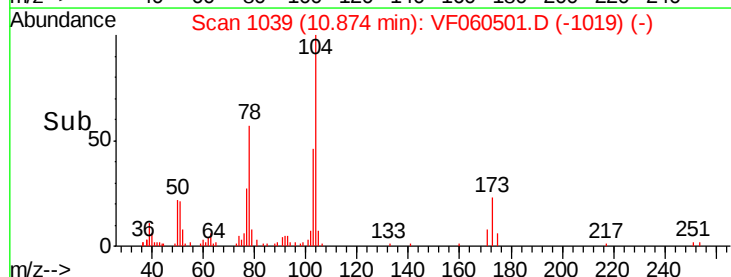
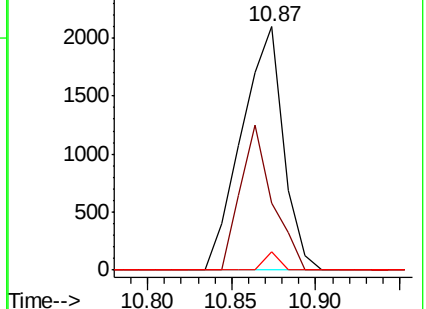
254 7.4 0.2 0.2#

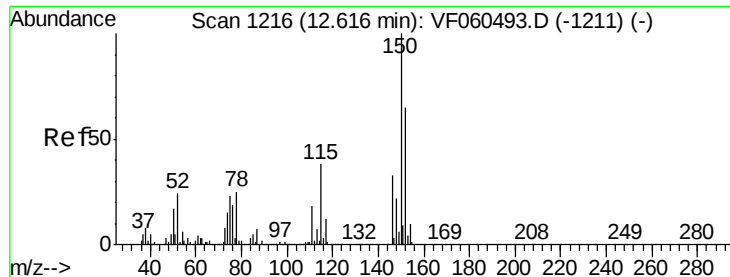


Abundance Ion 173.00 (172.70 to 173.70): V

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: 12.62 min Scan# 1216

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

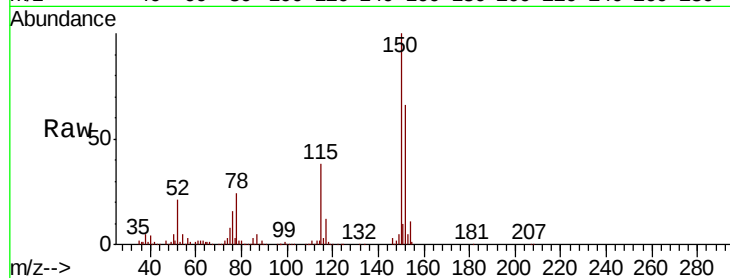
Tgt Ion:152 Resp: 219949

Ion Ratio Lower Upper

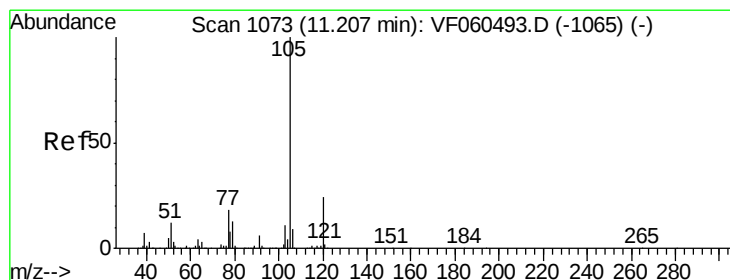
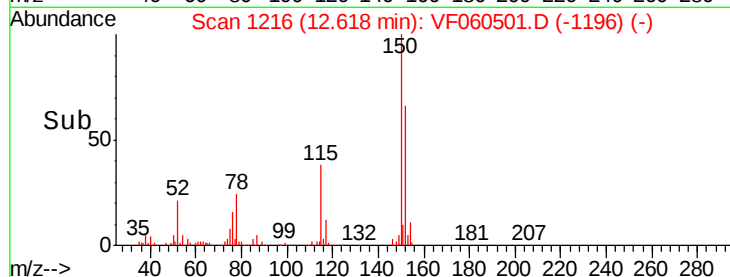
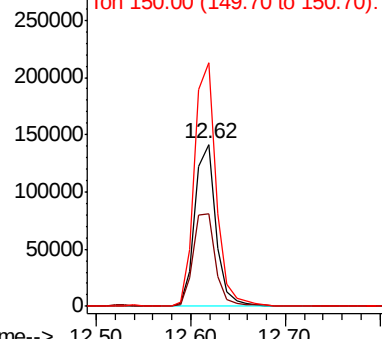
152 100

115 57.3 29.5 88.5

150 150.4 0.0 310.0



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: 2.207 ug/l

RT: 11.21 min Scan# 1073

Delta R.T. 0.00 min

Lab File: VF060501.D

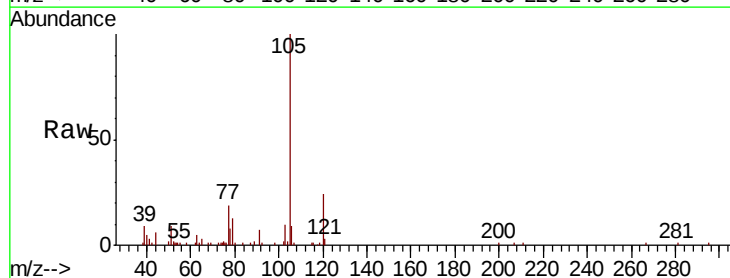
Acq: 9 Oct 2018 21:00

Tgt Ion:105 Resp: 36081

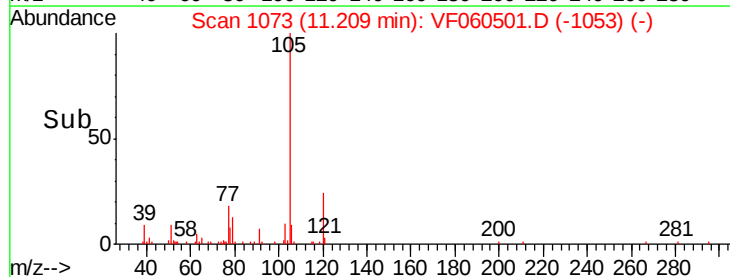
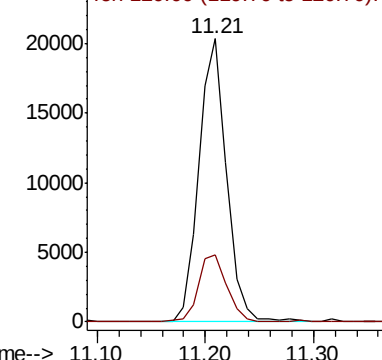
Ion Ratio Lower Upper

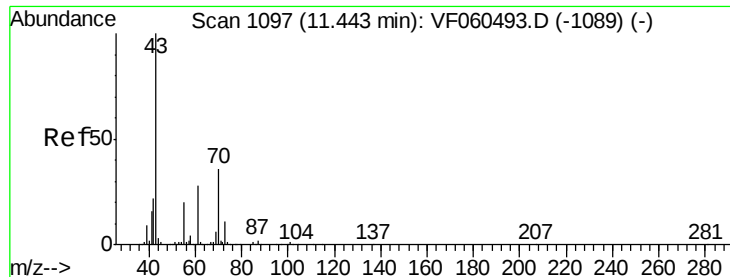
105 100

120 23.6 11.9 35.9



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#74

N-amyI acetate

Concen: 5.568 ug/l

RT: 11.45 min Scan# 1097

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

Tgt Ion: 43 Resp: 19816

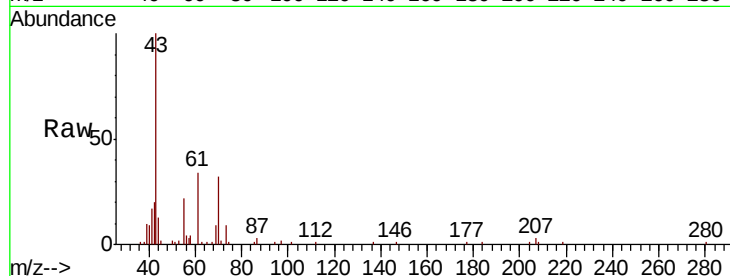
Ion Ratio Lower Upper

43 100

70 32.5 28.7 43.1

55 22.0 16.1 24.1

61 34.3 22.7 34.1#

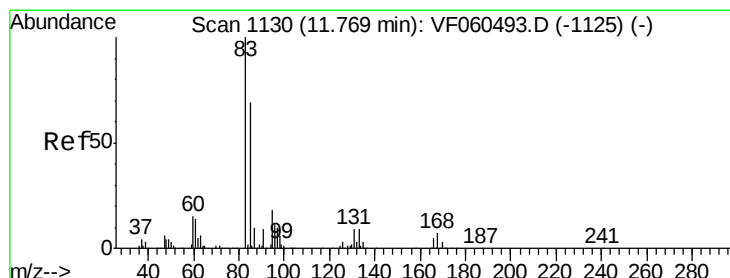
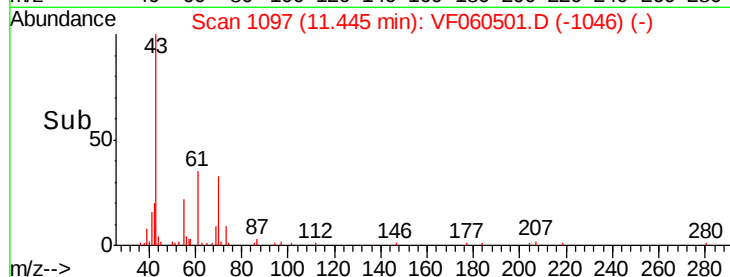
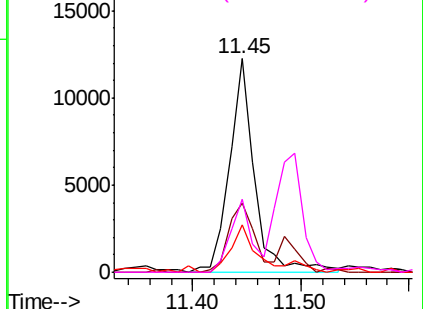


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#75

1,1,2,2-Tetrachloroethane

Concen: 2.302 ug/l

RT: 11.77 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

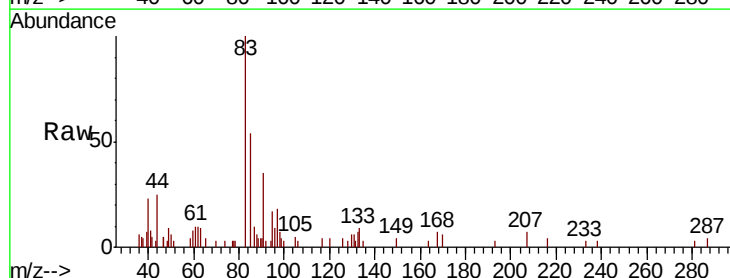
Tgt Ion: 83 Resp: 6327

Ion Ratio Lower Upper

83 100

131 8.2 4.5 13.4

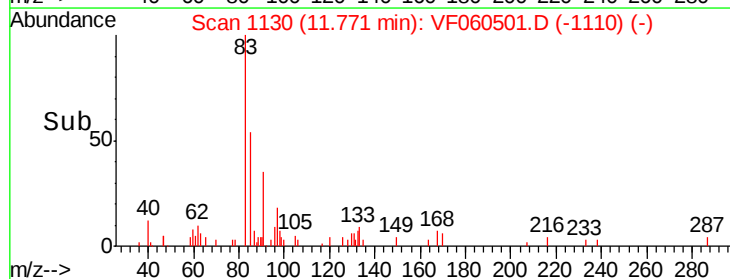
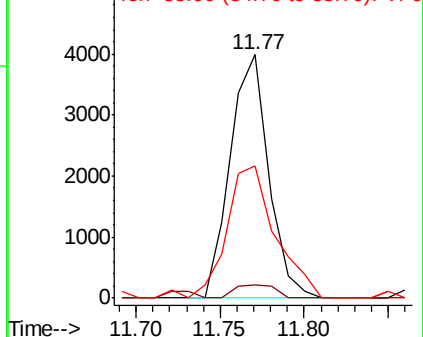
85 54.2 34.8 104.4

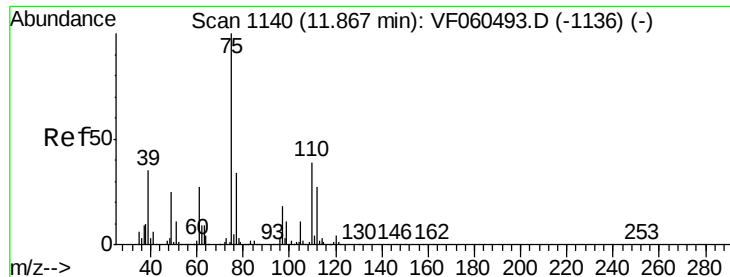


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0





#76

1,2,3-Trichloropropane

Concen: 2.225 ug/l

RT: 11.87 min Scan# 1140

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

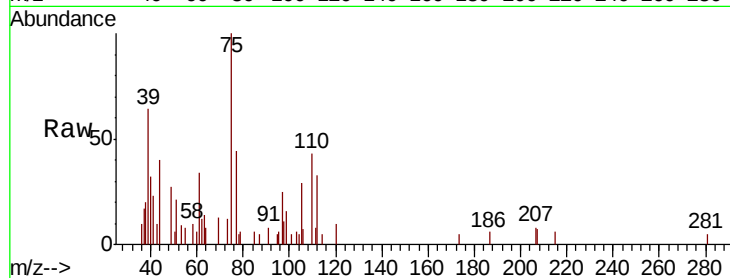
LOD-MDL-SOIL-01-QT4-2018DL

Tgt Ion: 75 Resp: 4726

Ion Ratio Lower Upper

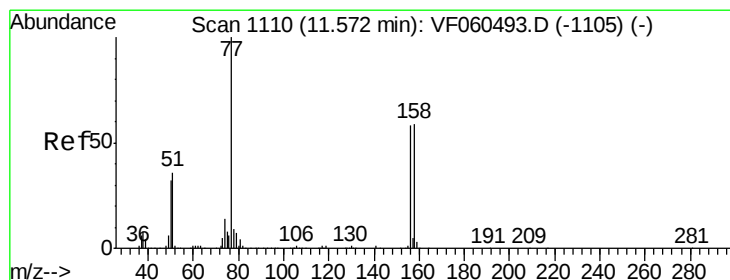
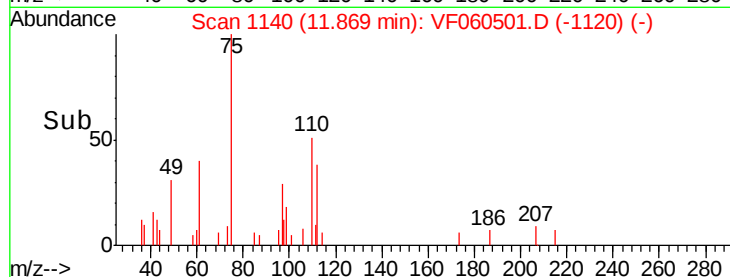
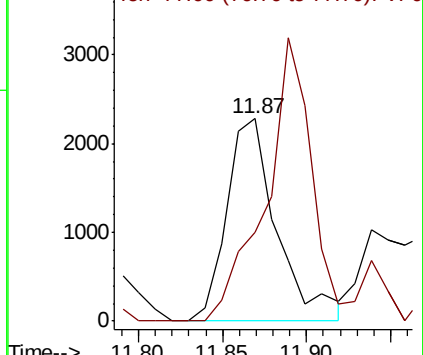
75 100

77 44.1 17.4 52.2



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#77

Bromobenzene

Concen: 2.026 ug/l

RT: 11.57 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

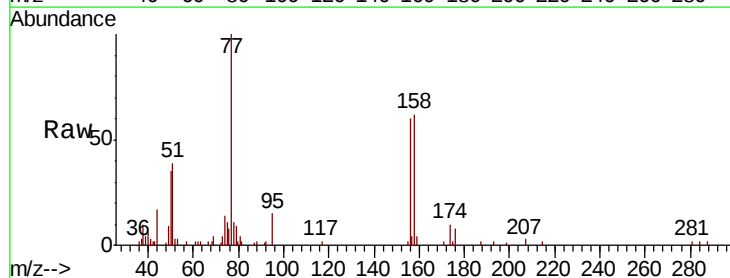
Tgt Ion: 156 Resp: 7360

Ion Ratio Lower Upper

156 100

77 156.0 86.3 258.8

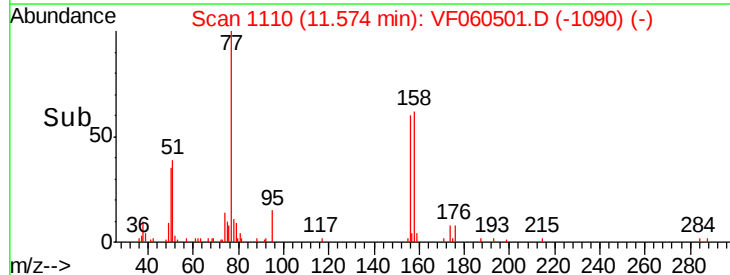
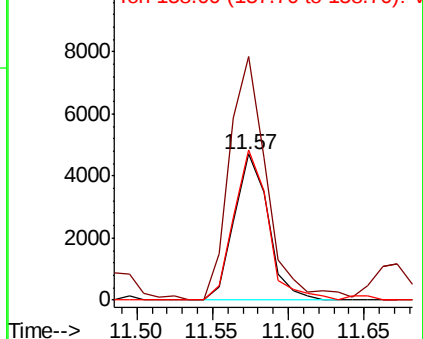
158 96.2 51.1 153.3

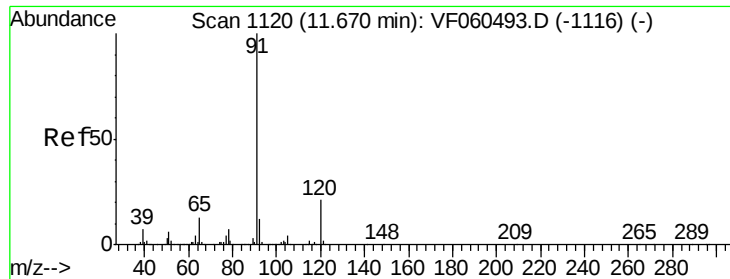


Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V





#78

n-propylbenzene

Concen: 2.277 ug/l

RT: 11.67 min Scan# 1120

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

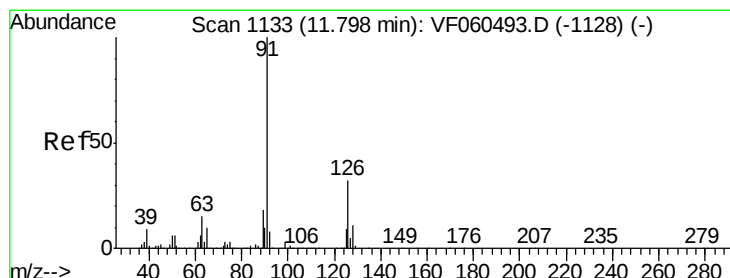
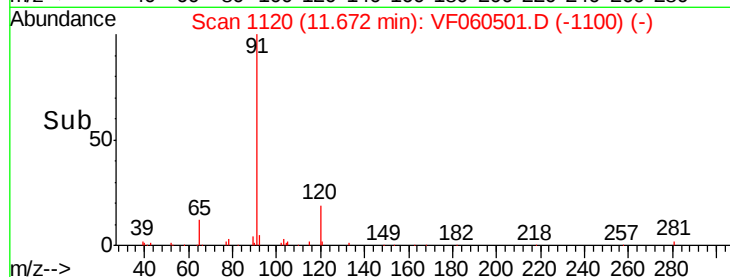
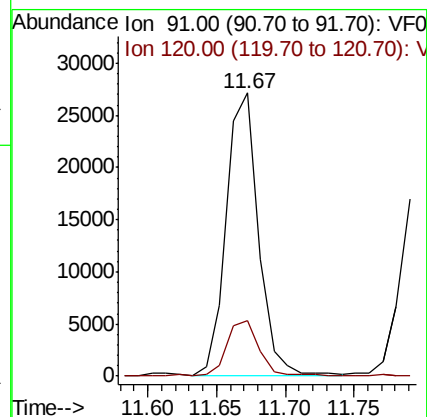
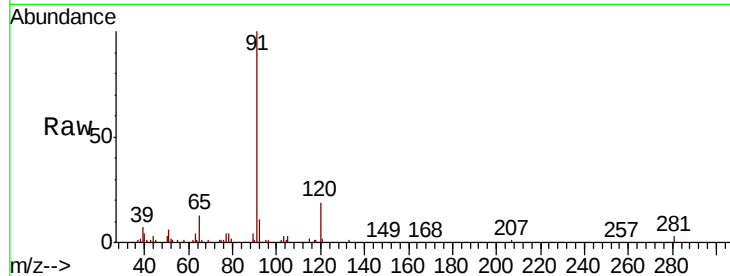
LOD-MDL-SOIL-01-QT4-2018DL

Tgt Ion: 91 Resp: 44339

Ion Ratio Lower Upper

91 100

120 19.5 10.5 31.6



#79

2-Chlorotoluene

Concen: 2.378 ug/l

RT: 11.79 min Scan# 1132

Delta R.T. -0.01 min

Lab File: VF060501.D

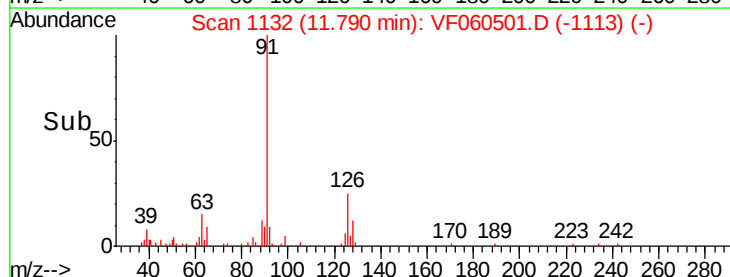
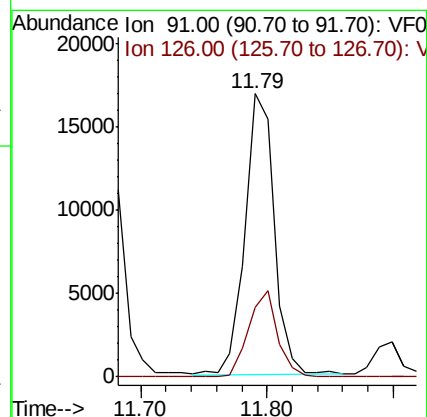
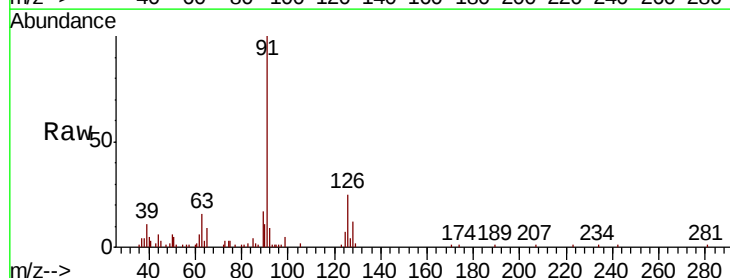
Acq: 9 Oct 2018 21:00

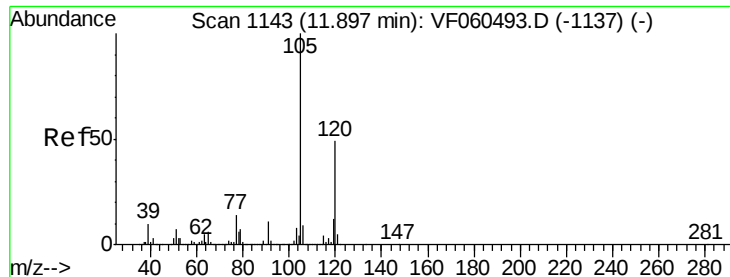
Tgt Ion: 91 Resp: 27113

Ion Ratio Lower Upper

91 100

126 24.8 16.1 48.3

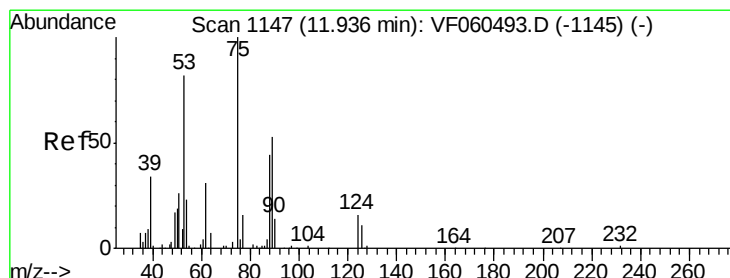
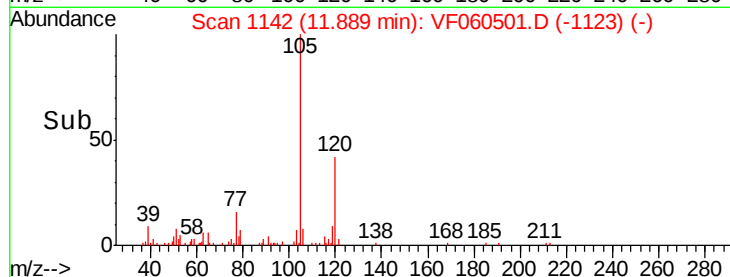
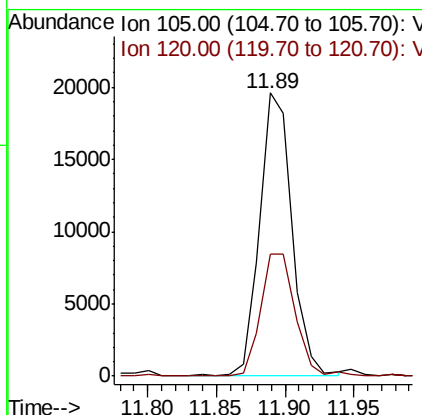
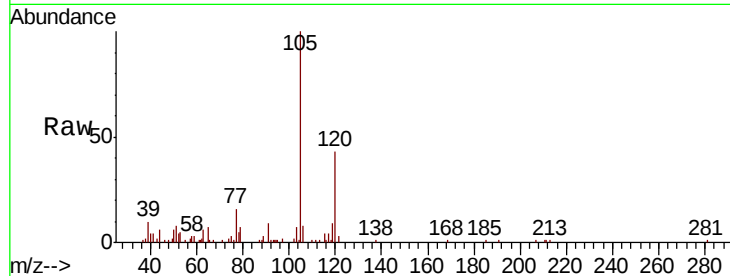




#80
 1,3,5-Trimethylbenzene
 Concen: 2.345 ug/l
 RT: 11.89 min Scan# 1142
 Delta R.T. -0.01 min
 Lab File: VF060501.D
 Acq: 9 Oct 2018 21:00

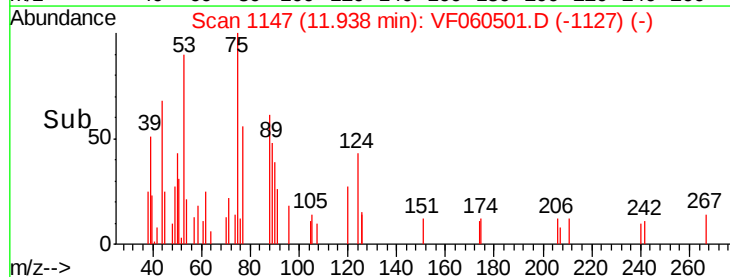
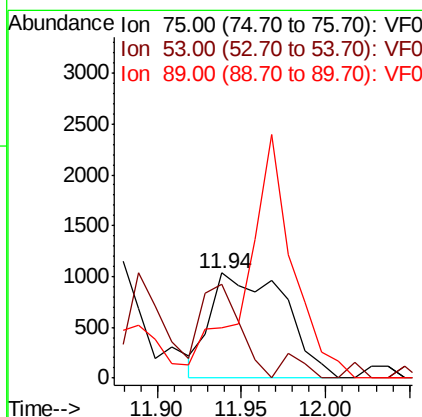
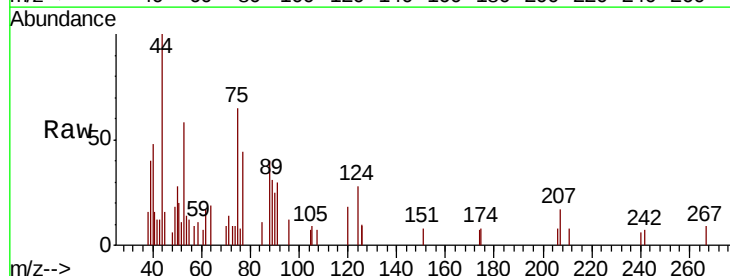
Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2018DL

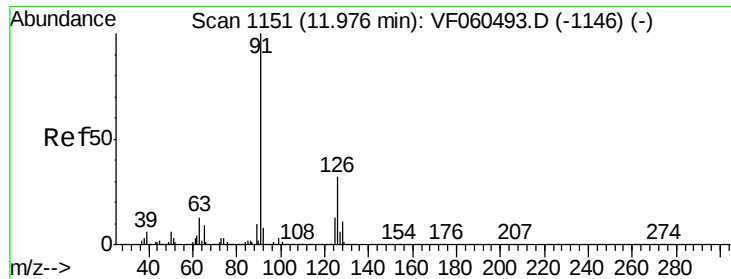
Tgt Ion:105 Resp: 32168
 Ion Ratio Lower Upper
 105 100
 120 43.0 24.4 73.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 3.429 ug/l
 RT: 11.94 min Scan# 1147
 Delta R.T. 0.00 min
 Lab File: VF060501.D
 Acq: 9 Oct 2018 21:00

Tgt Ion: 75 Resp: 3176
 Ion Ratio Lower Upper
 75 100
 53 89.6 71.0 106.6
 89 47.6 43.1 64.7





#82

4-Chlorotoluene

Concen: 2.183 ug/l

RT: 11.97 min Scan# 1150

Delta R.T. -0.01 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

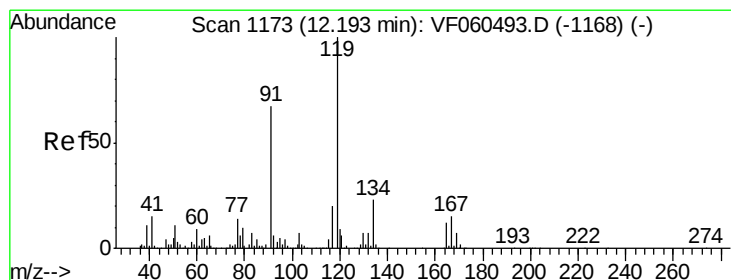
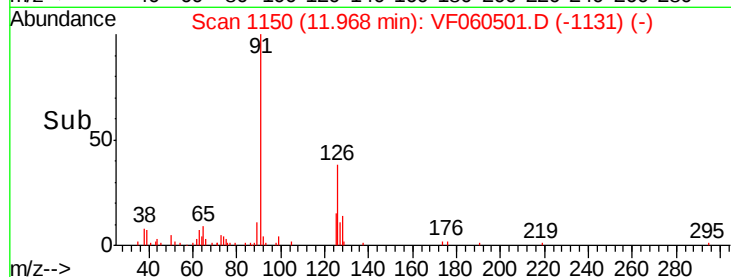
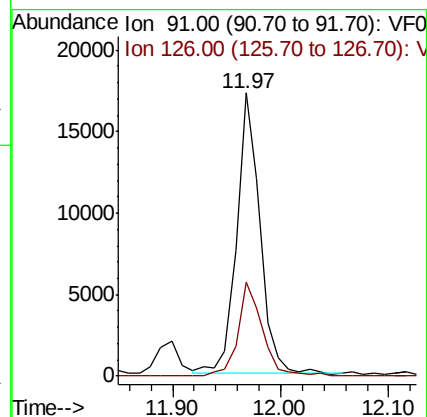
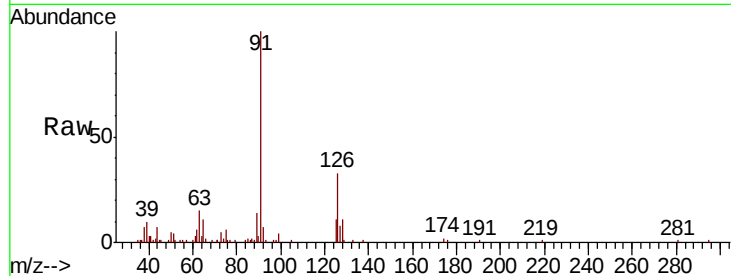
LOD-MDL-SOIL-01-QT4-2018DL

Tgt Ion: 91 Resp: 25670

Ion Ratio Lower Upper

91 100

126 33.4 16.0 47.9



#83

tert-Butylbenzene

Concen: 2.204 ug/l

RT: 12.19 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

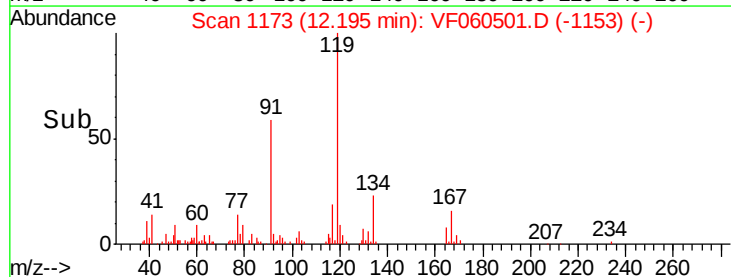
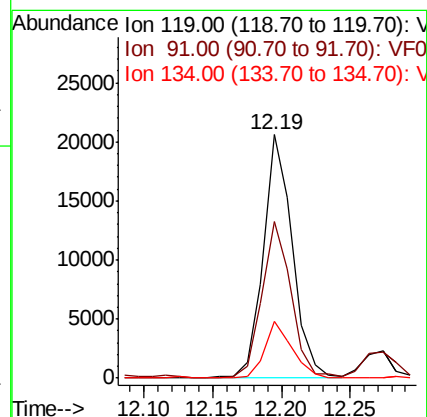
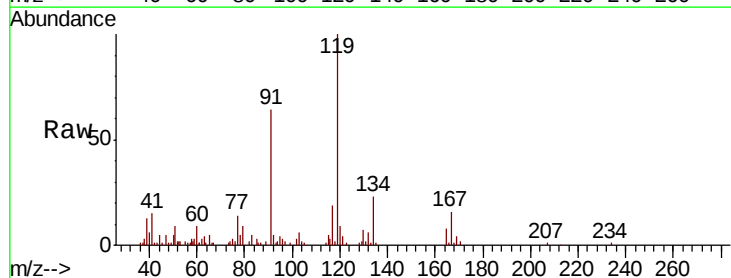
Tgt Ion: 119 Resp: 30389

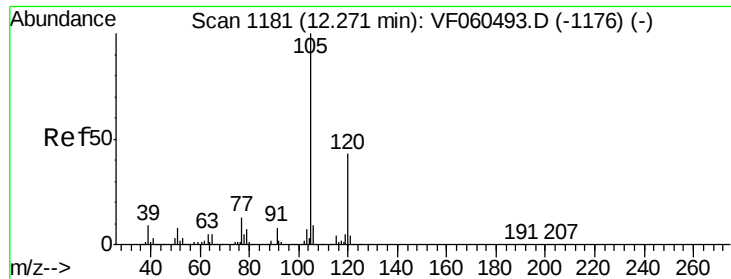
Ion Ratio Lower Upper

119 100

91 64.5 33.6 100.8

134 23.1 11.5 34.5





#84

1,2,4-Trimethylbenzene

Concen: 2.201 ug/l

RT: 12.27 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

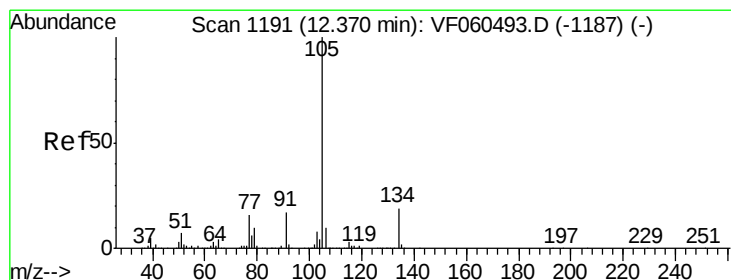
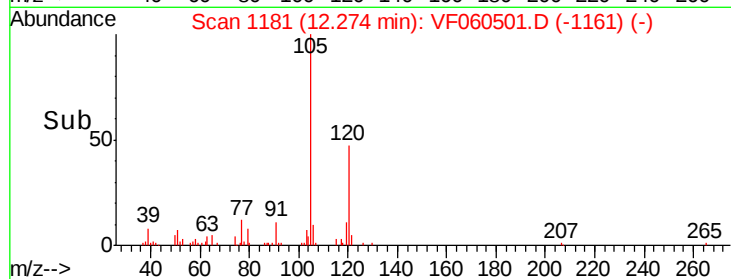
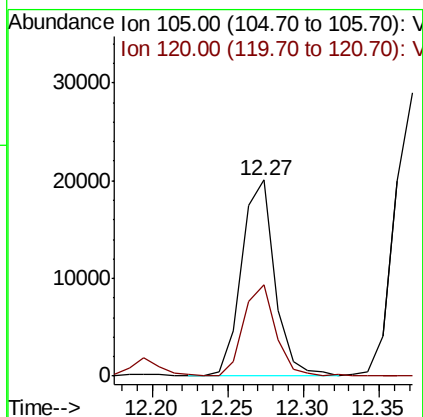
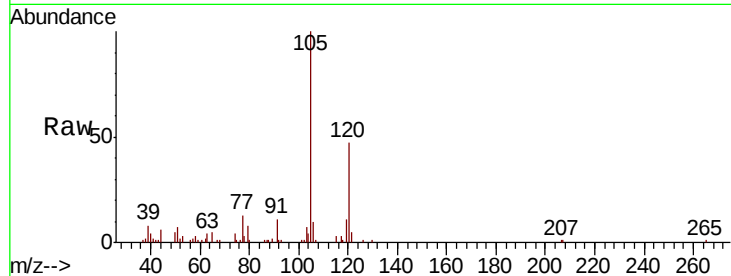
LOD-MDL-SOIL-01-QT4-2018DL

Tgt Ion:105 Resp: 30650

Ion Ratio Lower Upper

105 100

120 46.9 21.7 65.1



#85

sec-Butylbenzene

Concen: 2.246 ug/l

RT: 12.37 min Scan# 1191

Delta R.T. 0.00 min

Lab File: VF060501.D

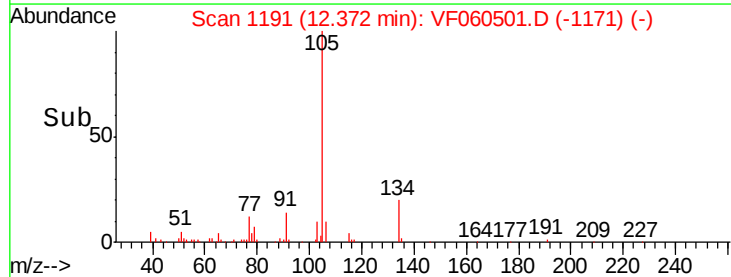
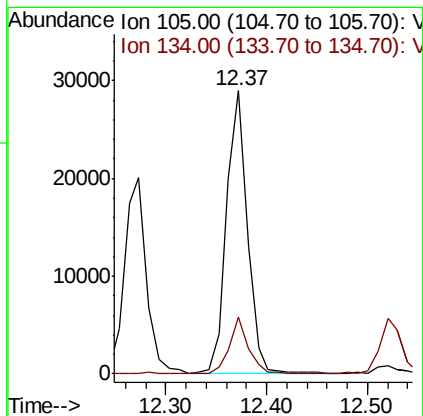
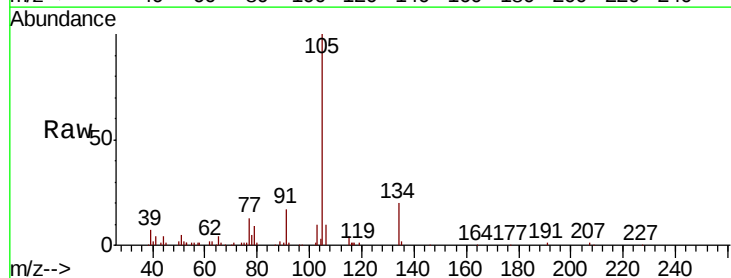
Acq: 9 Oct 2018 21:00

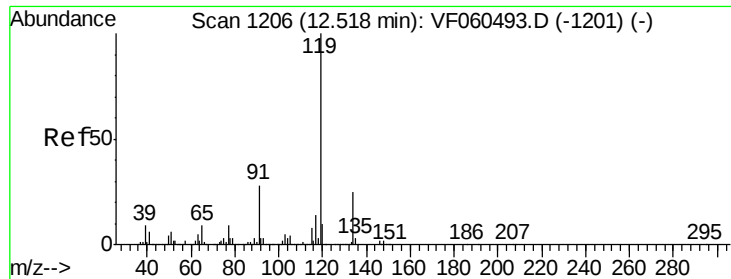
Tgt Ion:105 Resp: 42002

Ion Ratio Lower Upper

105 100

134 20.1 9.3 27.9

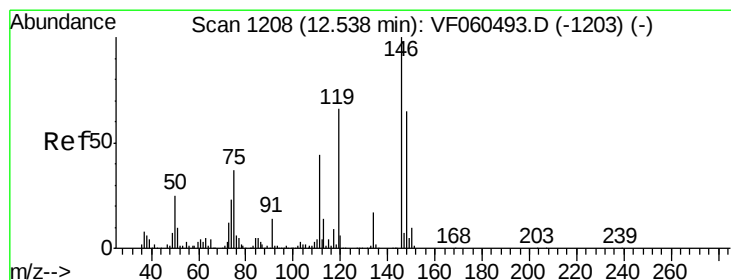
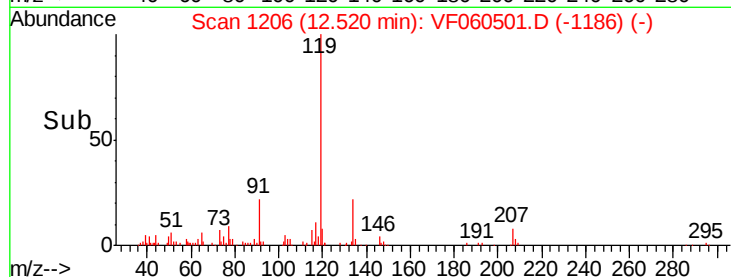
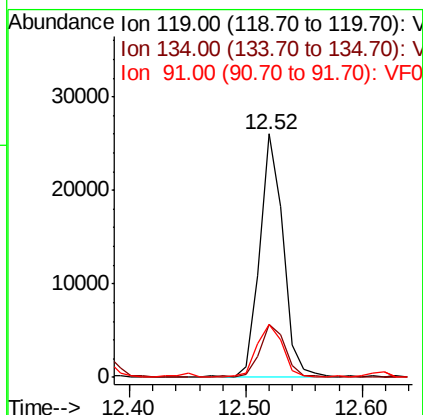
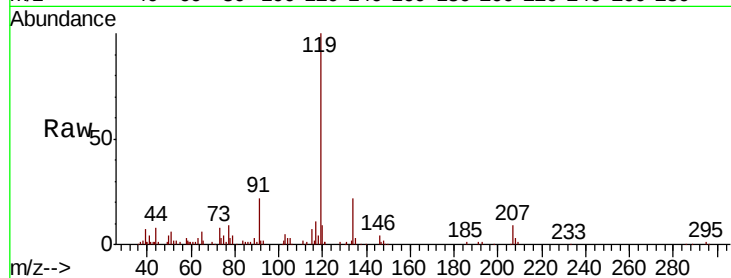




#86
p-Isopropyltoluene
Concen: 2.364 ug/l
RT: 12.52 min Scan# 1206
Delta R.T. 0.00 min
Lab File: VF060501.D
Acq: 9 Oct 2018 21:00

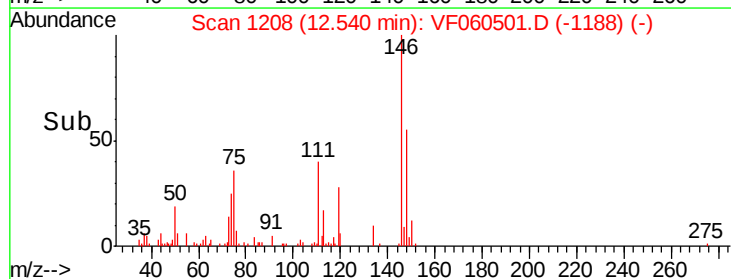
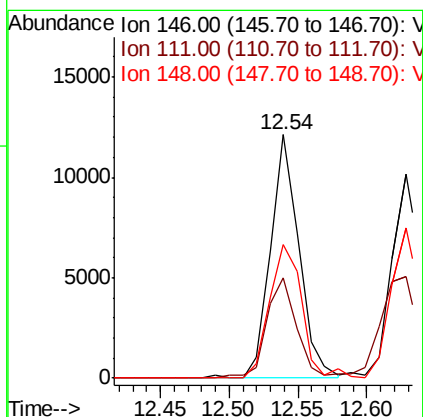
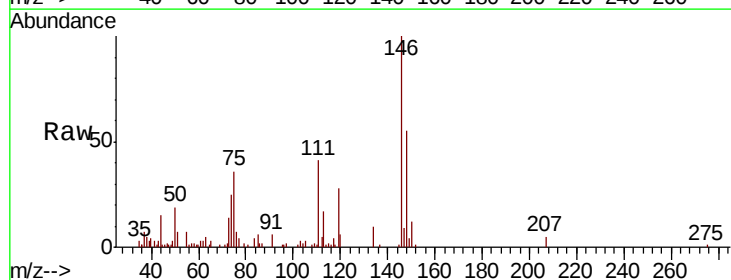
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018DL

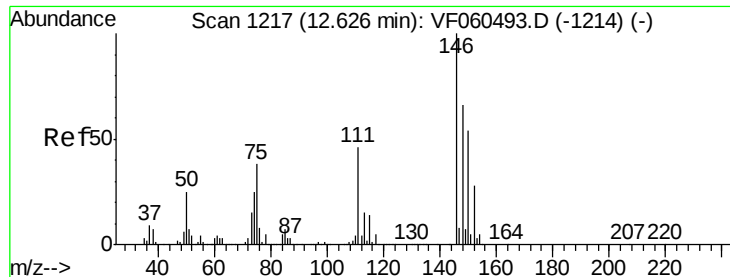
Tgt Ion:119 Resp: 36297
Ion Ratio Lower Upper
119 100
134 21.9 12.6 37.6
91 21.5 14.1 42.4



#87
1,3-Dichlorobenzene
Concen: 2.516 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. 0.00 min
Lab File: VF060501.D
Acq: 9 Oct 2018 21:00

Tgt Ion:146 Resp: 17409
Ion Ratio Lower Upper
146 100
111 41.3 22.2 66.6
148 54.6 32.7 98.1

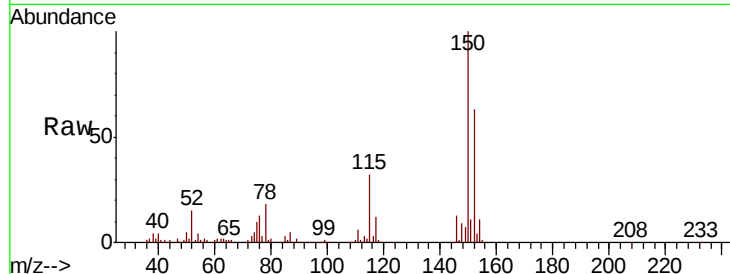




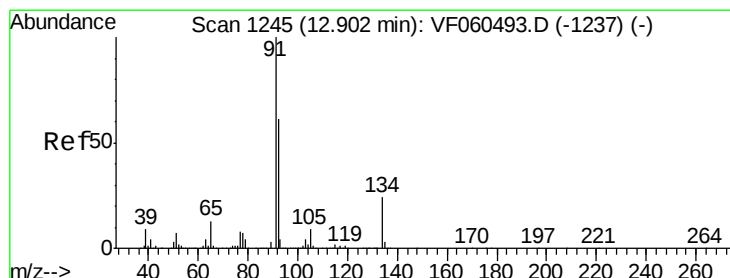
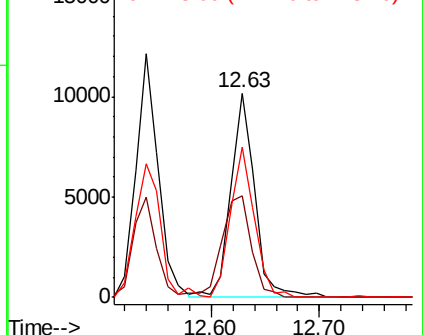
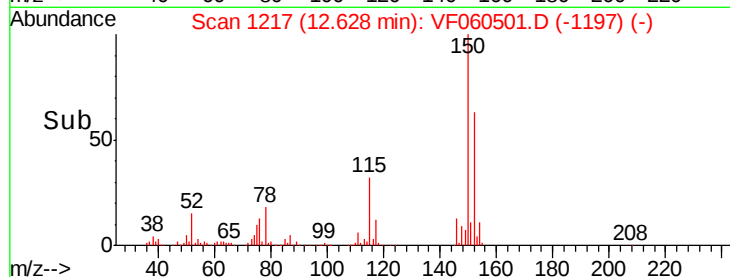
#88
 1,4-Dichlorobenzene
 Concen: 2.349 ug/l
 RT: 12.63 min Scan# 1217
 Delta R.T. 0.00 min
 Lab File: VF060501.D
 Acq: 9 Oct 2018 21:00

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2018DL

Tgt Ion: 146 Resp: 15768
 Ion Ratio Lower Upper
 146 100
 111 49.7 23.2 69.6
 148 73.4 33.3 99.9

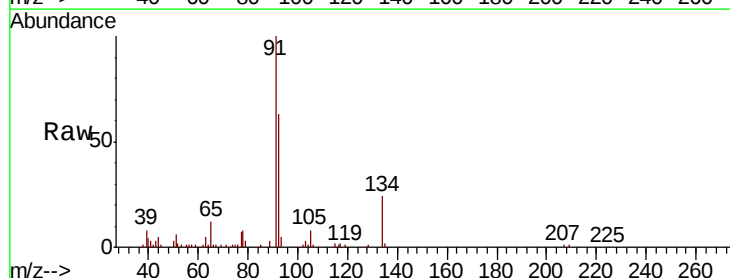


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

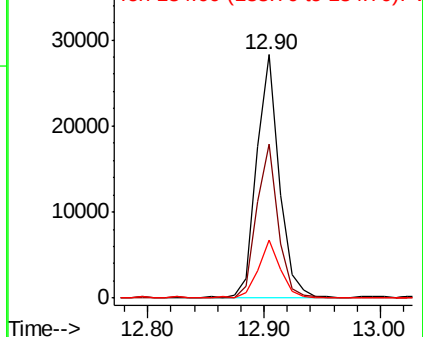
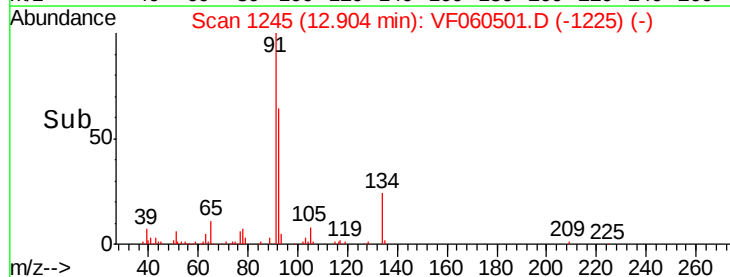


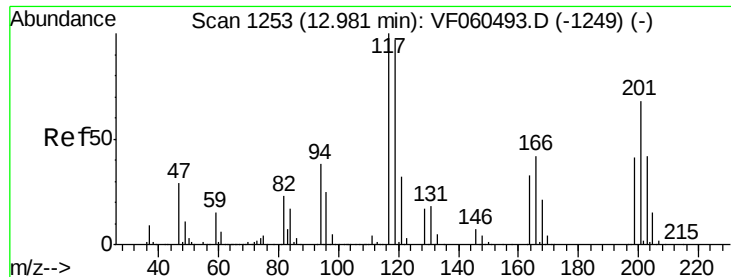
#89
 n-Butylbenzene
 Concen: 2.387 ug/l
 RT: 12.90 min Scan# 1245
 Delta R.T. 0.00 min
 Lab File: VF060501.D
 Acq: 9 Oct 2018 21:00

Tgt Ion: 91 Resp: 38351
 Ion Ratio Lower Upper
 91 100
 92 63.4 30.8 92.3
 134 24.0 12.1 36.3



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

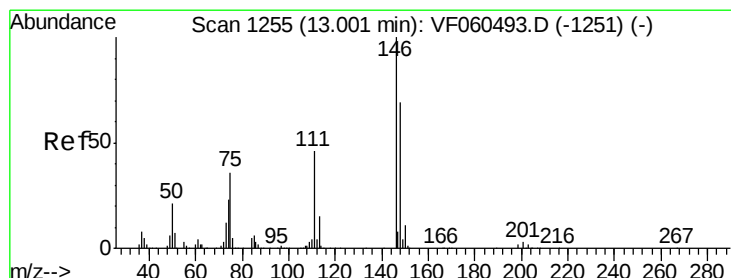
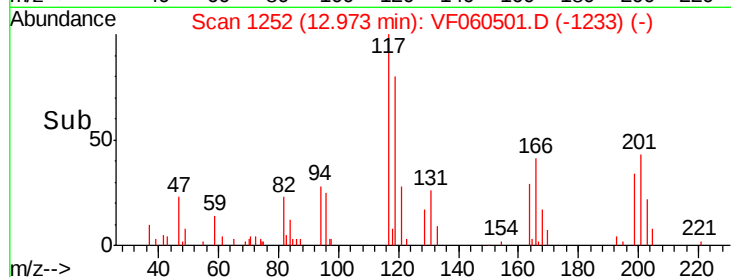
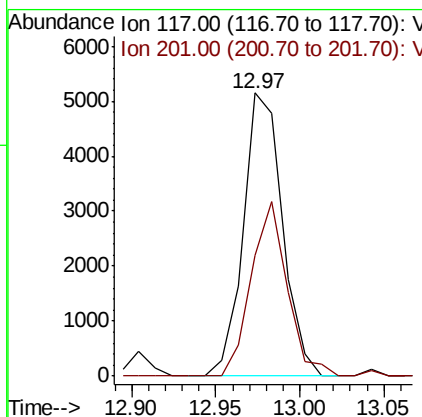
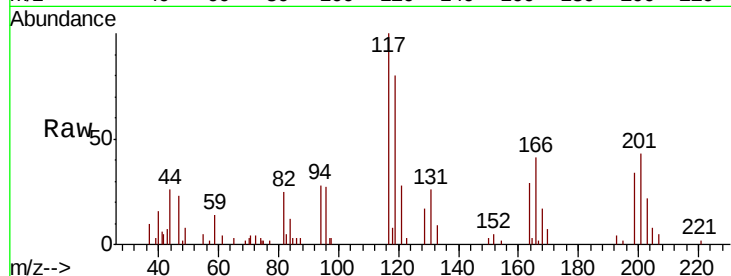




#90
Hexachloroethane
Concen: 2.262 ug/l
RT: 12.97 min Scan# 1252
Delta R.T. -0.01 min
Lab File: VF060501.D
Acq: 9 Oct 2018 21:00

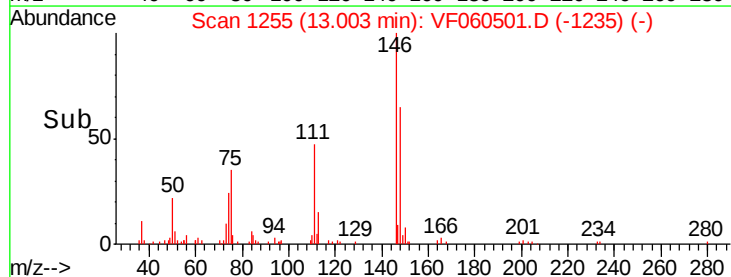
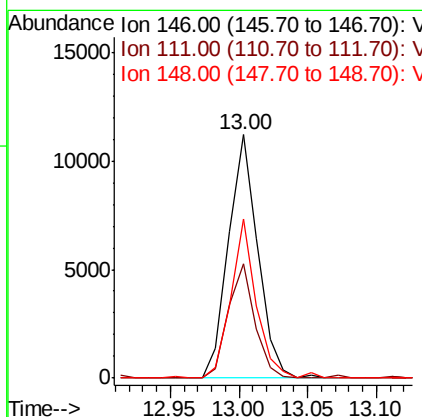
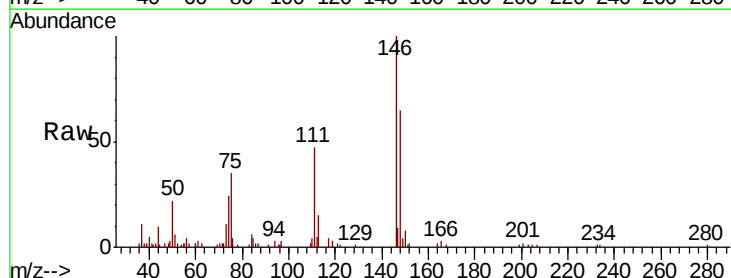
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2018DL

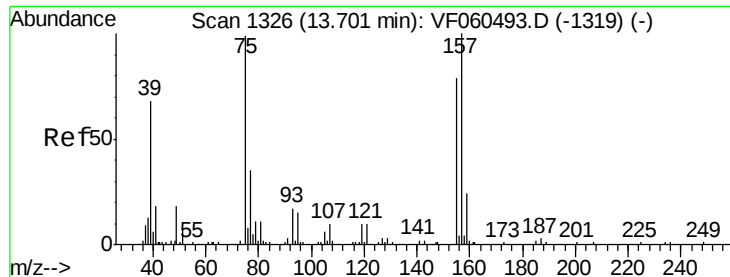
Tgt Ion:117 Resp: 8302
Ion Ratio Lower Upper
117 100
201 42.7 34.0 102.0



#91
1,2-Dichlorobenzene
Concen: 2.488 ug/l
RT: 13.00 min Scan# 1255
Delta R.T. 0.00 min
Lab File: VF060501.D
Acq: 9 Oct 2018 21:00

Tgt Ion:146 Resp: 16578
Ion Ratio Lower Upper
146 100
111 47.2 22.9 68.7
148 65.3 34.5 103.5

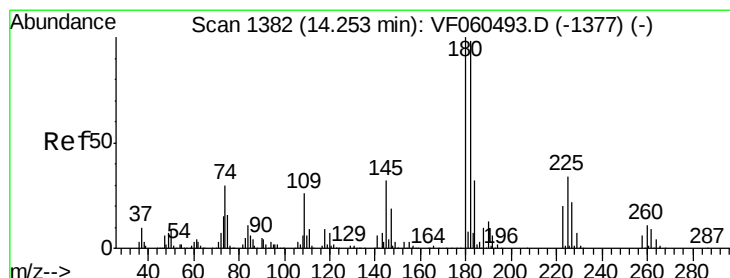
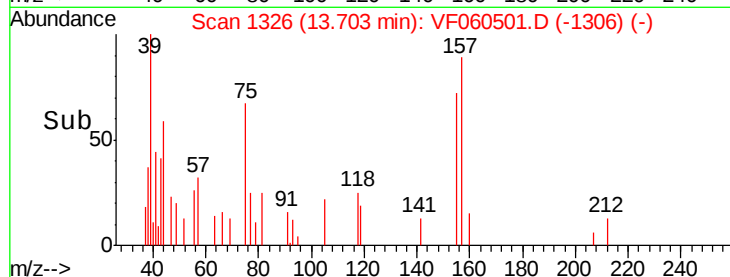
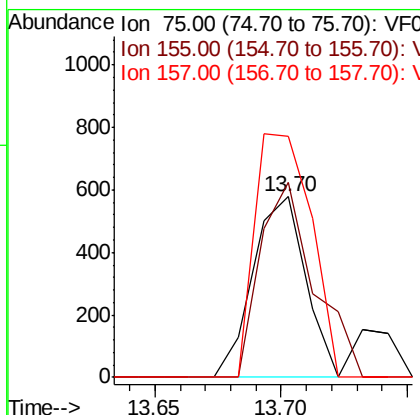
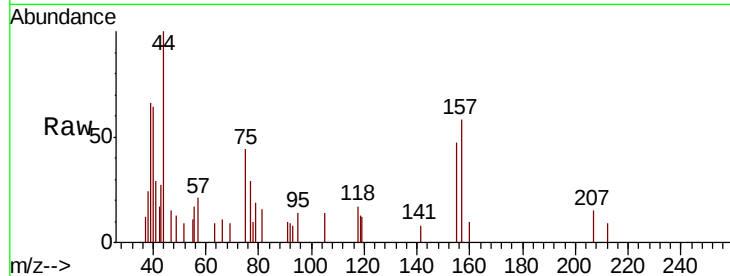




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.445 ug/l
 RT: 13.70 min Scan# 1326
 Delta R.T. 0.00 min
 Lab File: VF060501.D
 Acq: 9 Oct 2018 21:00

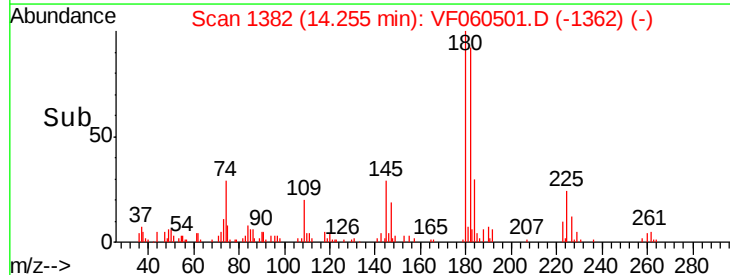
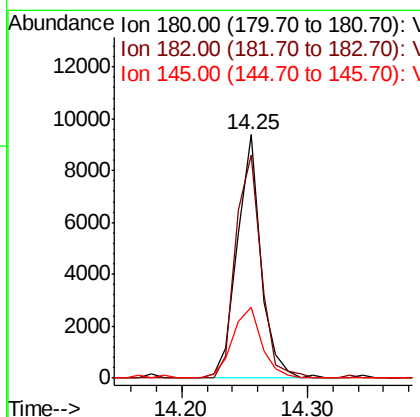
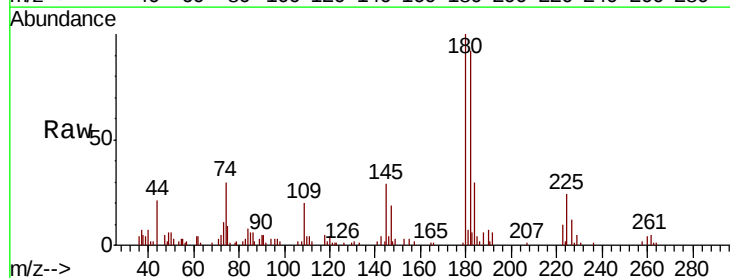
Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2018DL

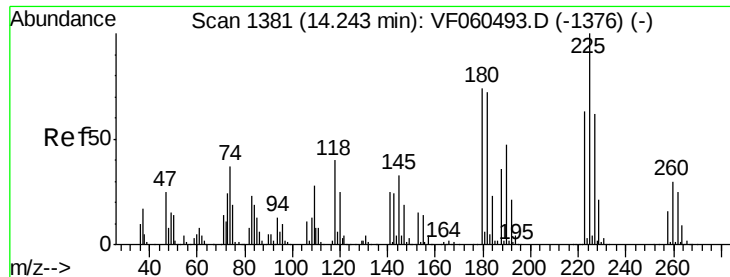
Tgt Ion: 75 Resp: 843
 Ion Ratio Lower Upper
 75 100
 155 107.6 40.6 121.7
 157 133.2 50.8 152.5



#93
 1,2,4-Trichlorobenzene
 Concen: 2.358 ug/l
 RT: 14.25 min Scan# 1382
 Delta R.T. 0.00 min
 Lab File: VF060501.D
 Acq: 9 Oct 2018 21:00

Tgt Ion: 180 Resp: 12129
 Ion Ratio Lower Upper
 180 100
 182 91.8 48.9 146.8
 145 29.0 16.2 48.5





#94

Hexachlorobutadiene

Concen: 2.061 ug/l

RT: 14.24 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2018DL

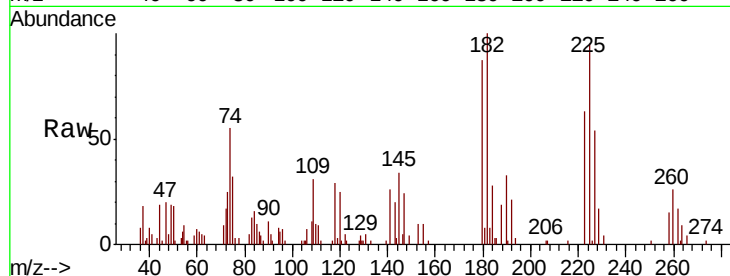
Tgt Ion:225 Resp: 7210

Ion Ratio Lower Upper

225 100

223 66.4 31.4 94.2

227 56.8 30.9 92.7

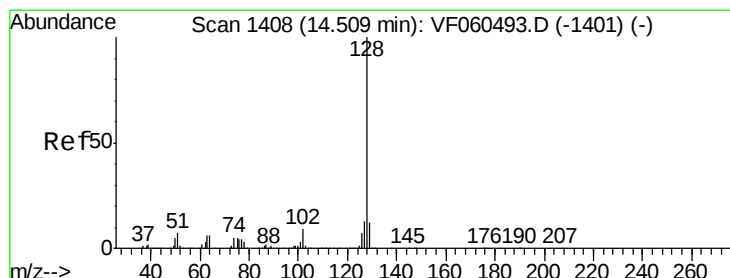
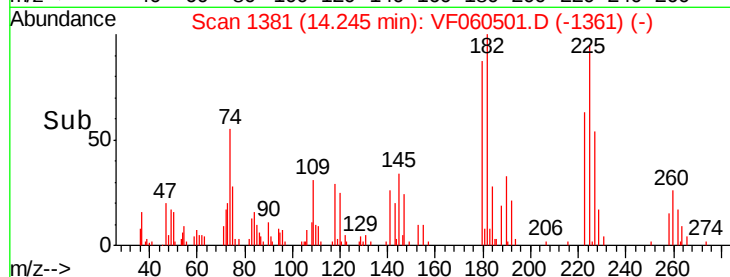
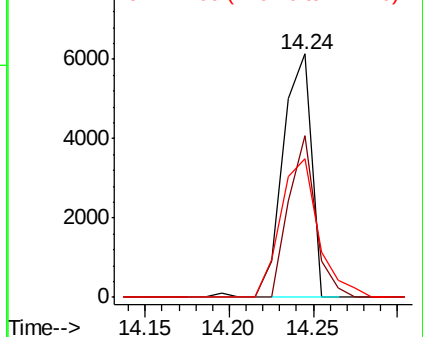


Abundance

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: 3.919 ug/l

RT: 14.51 min Scan# 1408

Delta R.T. 0.00 min

Lab File: VF060501.D

Acq: 9 Oct 2018 21:00

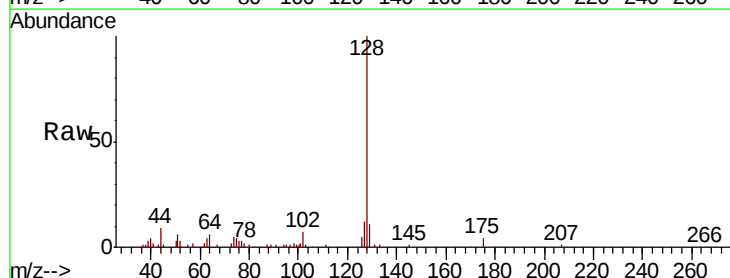
Tgt Ion:128 Resp: 34656

Ion Ratio Lower Upper

128 100

127 12.4 10.2 15.2

129 10.6 9.2 13.8

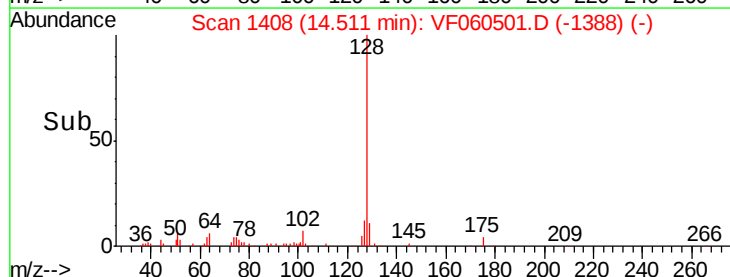
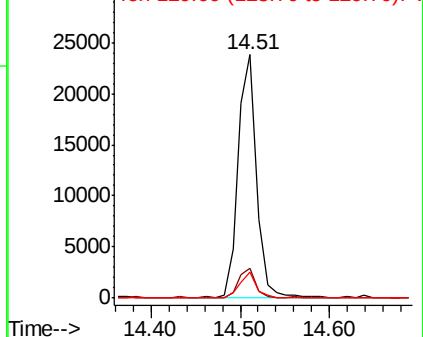


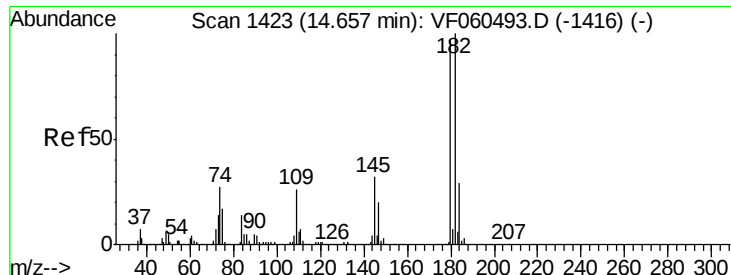
Abundance

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: 2.477 ug/l
 RT: 14.65 min Scan# 1422
 Delta R.T. -0.01 min
 Lab File: VF060501.D
 Acq: 9 Oct 2018 21:00

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2018DL

Tgt Ion:180 Resp: 11874
 Ion Ratio Lower Upper
 180 100
 182 95.2 51.3 153.9
 145 32.5 16.4 49.2

