

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF081418\
 Data File : VF059963.D
 Acq On : 15 Aug 2018 00:42
 Operator : VA/AP
 Sample : J3762-01
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

Quant Time: Aug 15 11:02:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F081418S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 15 09:20:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.07	168	131151	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.79	114	186020	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.94	117	185158	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.65	152	121124	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.04	65	114286	49.84	ug/l	0.00
Spiked Amount			Recovery	=	99.68%	
35) Dibromofluoromethane	4.32	113	96656	51.85	ug/l	0.01
Spiked Amount			Recovery	=	103.70%	
50) Toluene-d8	7.73	98	204304	49.70	ug/l	0.00
Spiked Amount			Recovery	=	99.40%	
62) 4-Bromofluorobenzene	11.53	95	112730	49.93	ug/l	0.00
Spiked Amount			Recovery	=	99.86%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.00	85	5018	2.58	ug/l	98
3) Chloromethane	1.10	50	2435	2.94	ug/l	90
4) Vinyl Chloride	1.16	62	2477	2.60	ug/l	96
5) Bromomethane	1.34	94	2243	2.62	ug/l	89
6) Chloroethane	1.43	64	1640	2.66	ug/l #	46
7) Trichlorofluoromethane	1.55	101	3611	1.30	ug/l	93
8) Diethyl Ether	1.71	74	1001	2.62	ug/l	85
9) 1,1,2-Trichlorotrifluoroet	1.91	101	3204	2.28	ug/l	99
10) Methyl Iodide	1.97	142	5549	2.53	ug/l	97
11) Tert butyl alcohol	2.70	59	1417	15.56	ug/l #	64
12) 1,1-Dichloroethene	1.87	96	2402	2.31	ug/l #	76
13) Acrolein	2.11	56	651	27.89	ug/l #	81
15) Acrylonitrile	3.09	53	1840	13.32	ug/l #	59
16) Acetone	2.35	43	7118	15.64	ug/l	97
17) Carbon Disulfide	1.89	76	6364	2.39	ug/l	95
18) Methyl Acetate	2.47	43	1633	2.58	ug/l #	86
19) Methyl tert-butyl Ether	2.56	73	7536	2.52	ug/l	100
20) Methylene Chloride	2.29	84	2764	Below	Cal	86
21) trans-1,2-Dichloroethene	2.43	96	2658	2.63	ug/l #	77
22) Diisopropyl ether	2.94	45	8806	2.59	ug/l #	95
23) Vinyl Acetate	3.35	43	18112	10.73	ug/l	98
24) 1,1-Dichloroethane	3.02	63	6032	2.51	ug/l #	89
25) 2-Butanone	4.54	43	6212	13.50	ug/l	98
26) 2,2-Dichloropropane	3.78	77	3980	2.55	ug/l #	67
27) cis-1,2-Dichloroethene	3.65	96	2409	2.16	ug/l	90
28) Bromochloromethane	3.91	49	2424	2.71	ug/l	92
29) Tetrahydrofuran	4.27	42	2758	17.44	ug/l #	89
30) Chloroform	4.07	83	7590	2.30	ug/l	86
31) Cyclohexane	3.88	56	1338	1.11	ug/l	88
32) 1,1,1-Trichloroethane	4.31	97	5885	2.17	ug/l #	80
36) 1,1-Dichloropropene	4.49	75	4845	2.34	ug/l #	85
37) Ethyl Acetate	4.32	43	2427	2.74	ug/l #	98
38) Carbon Tetrachloride	4.20	117	7207	2.09	ug/l	85
39) Methylcyclohexane	5.64	83	3768	2.51	ug/l #	84

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Benzene	4.83	78	8221	2.35	ug/l	100
41) Methacrylonitrile	4.93	41	1182	2.71	ug/l #	83
42) 1,2-Dichloroethane	5.14	62	6461	2.33	ug/l #	90
43) Isopropyl Acetate	7.14	43	2388	2.48	ug/l #	85
44) Trichloroethene	5.70	130	2843	2.11	ug/l	83
45) 1,2-Dichloropropane	6.42	63	2293	2.48	ug/l	99
46) Dibromomethane	6.28	93	1819	1.99	ug/l #	79
47) Bromodichloromethane	6.58	83	5113	1.94	ug/l #	93
48) Methyl methacrylate	6.89	41	1930	2.69	ug/l	91
49) 1,4-Dioxane	6.88	88	278	51.20	ug/l #	19
51) 4-Methyl-2-Pentanone	8.42	43	11083	11.87	ug/l #	89
52) Toluene	7.80	92	6620	2.56	ug/l	79
53) t-1,3-Dichloropropene	8.45	75	4826	2.24	ug/l #	83
54) cis-1,3-Dichloropropene	7.48	75	4400	2.12	ug/l #	70
55) 1,1,2-Trichloroethane	8.66	97	2722	3.07	ug/l #	65
56) Ethyl methacrylate	8.79	69	2083	2.19	ug/l	84
57) 1,3-Dichloropropane	9.03	76	3887	2.38	ug/l #	85
58) 2-Chloroethyl Vinyl ether	7.81	63	1386	10.83	ug/l	100
59) 2-Hexanone	9.65	43	10661	15.65	ug/l	100
60) Dibromochloromethane	8.88	129	3817	2.18	ug/l	91
61) 1,2-Dibromoethane	9.16	107	2495	2.26	ug/l	88
64) Tetrachloroethene	8.32	164	3498	2.43	ug/l	87
65) Chlorobenzene	9.96	112	7889	2.21	ug/l	89
66) 1,1,1,2-Tetrachloroethane	10.09	131	3969	2.30	ug/l	89
67) Ethyl Benzene	10.06	91	14569	2.31	ug/l	97
68) m/p-Xylenes	10.28	106	9408	4.43	ug/l	77
69) o-Xylene	10.86	106	5491	2.38	ug/l	64
70) Stvrene	10.91	104	7525	2.20	ug/l #	86
71) Bromoform	10.90	173	2336	2.17	ug/l	95
73) Isopropylbenzene	11.24	105	15125	1.99	ug/l	100
74) N-amyl acetate	11.48	43	3979	2.37	ug/l #	93
75) 1,1,2,2-Tetrachloroethane	11.80	83	3046	2.38	ug/l	98
76) 1,2,3-Trichloropropane	11.90	75	2823	2.56	ug/l	96
77) Bromobenzene	11.61	156	4773	2.39	ug/l	83
78) n-propylbenzene	11.70	91	21455	2.40	ug/l	99
79) 2-Chlorotoluene	11.83	91	13547	2.42	ug/l	96
80) 1,3,5-Trimethylbenzene	11.93	105	14476	2.04	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.99	75	1814	4.02	ug/l #	15
82) 4-Chlorotoluene	12.01	91	13850	2.24	ug/l	87
83) tert-Butylbenzene	12.23	119	15036	2.15	ug/l	97
84) 1,2,4-Trimethylbenzene	12.30	105	16070	2.25	ug/l	97
85) sec-Butylbenzene	12.40	105	20244	2.27	ug/l	95
86) p-Isopropyltoluene	12.55	119	16049	2.05	ug/l	92
87) 1,3-Dichlorobenzene	12.57	146	10481	2.76	ug/l	93
88) 1,4-Dichlorobenzene	12.66	146	10374	2.78	ug/l	95
89) n-Butylbenzene	12.93	91	15771	2.09	ug/l	96
90) Hexachloroethane	13.00	117	4532	2.33	ug/l	65
91) 1,2-Dichlorobenzene	13.03	146	9356	2.54	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.72	75	670	1.93	ug/l	82
93) 1,2,4-Trichlorobenzene	14.28	180	7160	2.43	ug/l	92

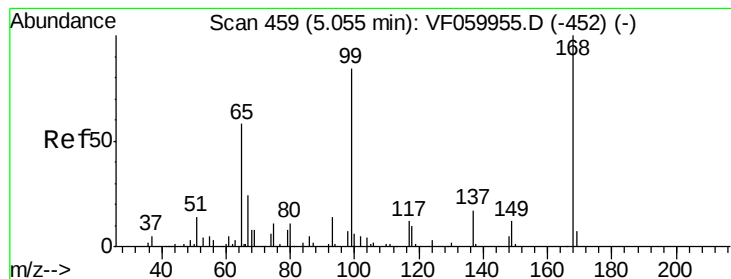
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF081418\
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	14.27	225	4869	2.31	ug/l	89
95) Naphthalene	14.53	128	10923	2.27	ug/l	98
96) 1,2,3-Trichlorobenzene	14.68	180	6773	2.41	ug/l	91

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.07 min Scan# 460

Delta R.T. 0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

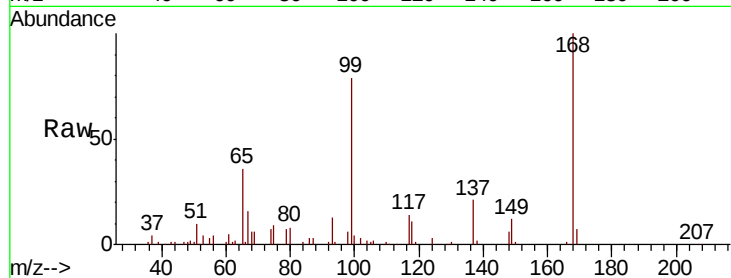
LOD-MDL-SOIL-01-QT3-2018

Tot Ion:168 Resp: 131151

Ion Ratio Lower Upper

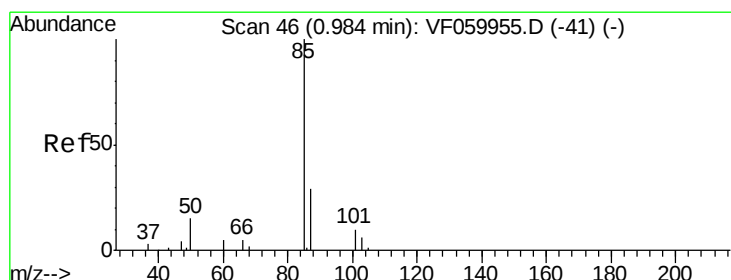
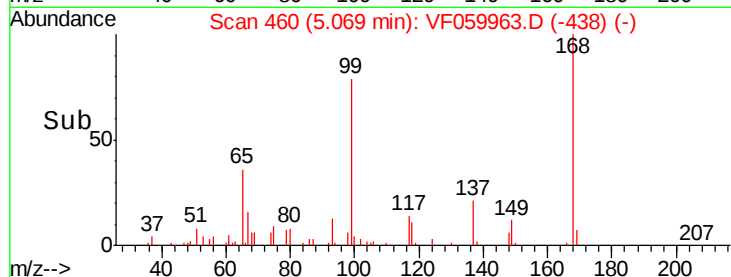
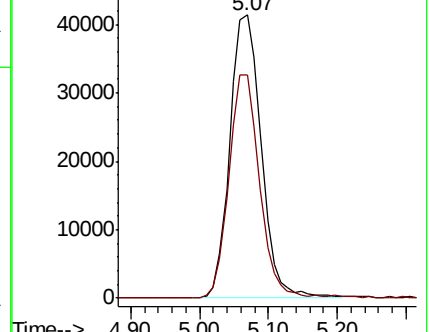
168 100

99 78.8 67.4 101.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 2.58 ug/l

RT: 1.00 min Scan# 47

Delta R.T. 0.01 min

Lab File: VF059963.D

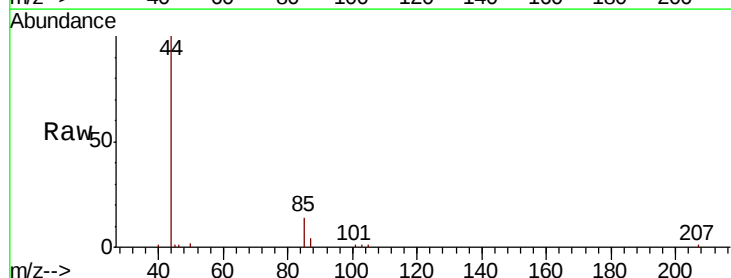
Acq: 15 Aug 2018 00:42

Tgt Ion: 85 Resp: 5018

Ion Ratio Lower Upper

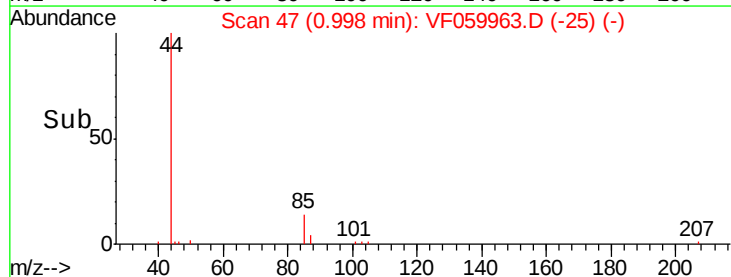
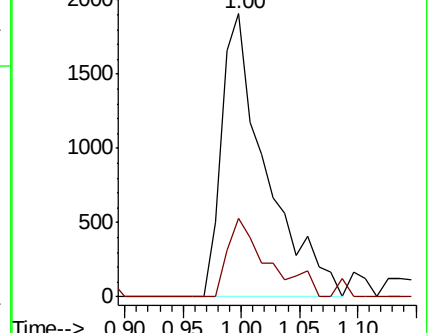
85 100

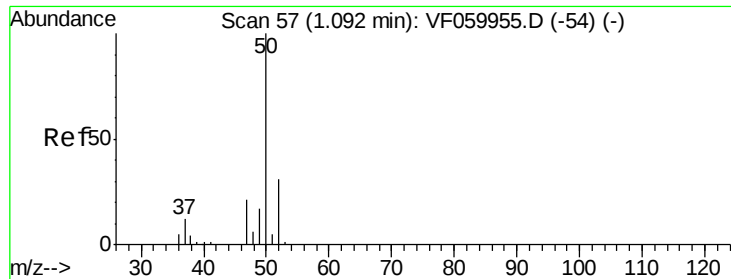
87 27.8 14.4 43.4



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 2.94 ug/l

RT: 1.10 min Scan# 57

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

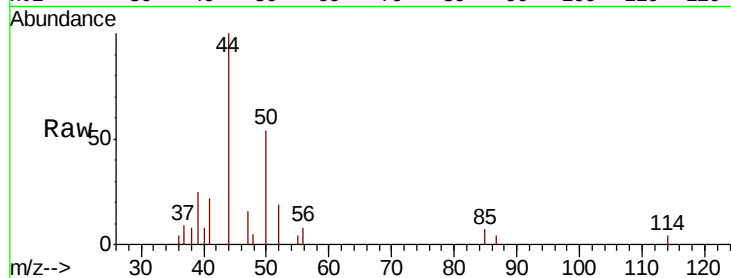
LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 50 Resp: 2435

Ion Ratio Lower Upper

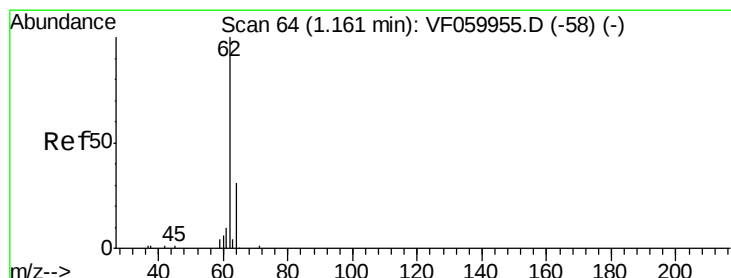
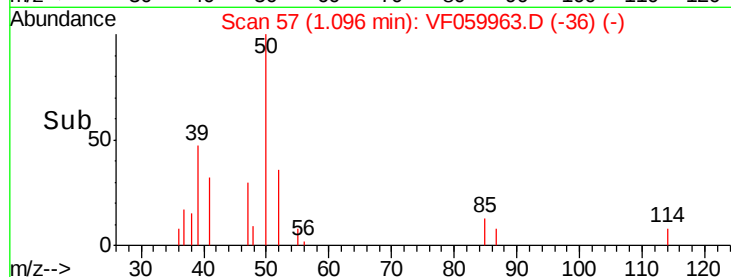
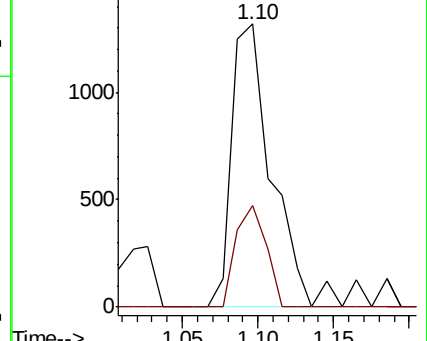
50 100

52 35.7 24.2 36.2



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 2.60 ug/l

RT: 1.16 min Scan# 63

Delta R.T. -0.01 min

Lab File: VF059963.D

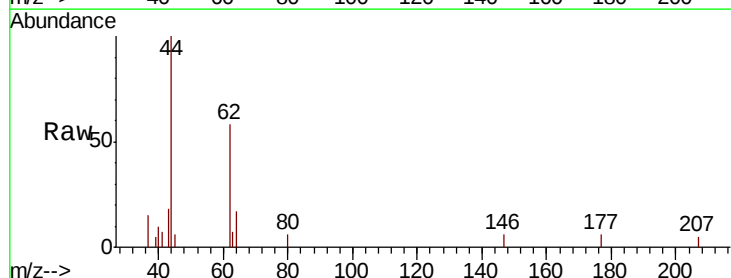
Acq: 15 Aug 2018 00:42

Tgt Ion: 62 Resp: 2477

Ion Ratio Lower Upper

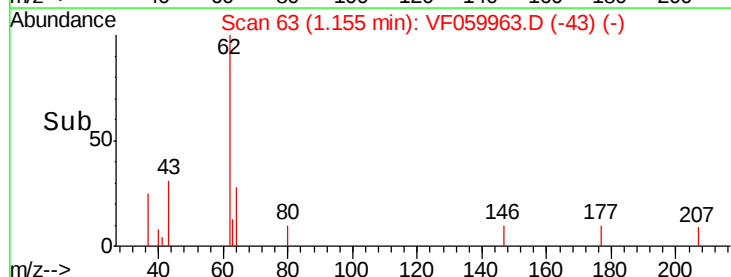
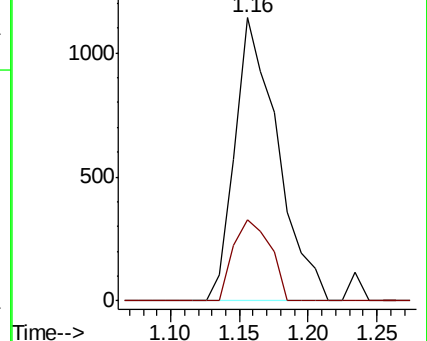
62 100

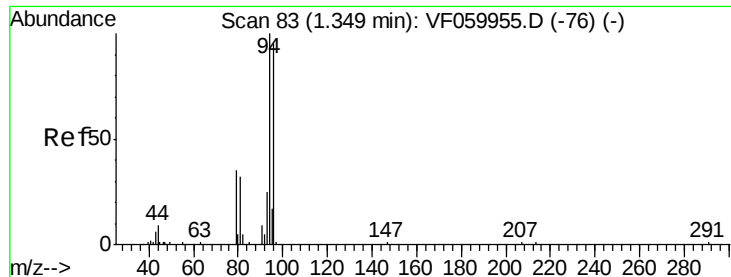
64 28.5 24.7 37.1



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 2.62 ug/l

RT: 1.34 min Scan# 82

Delta R.T. -0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

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ClientSampleId :

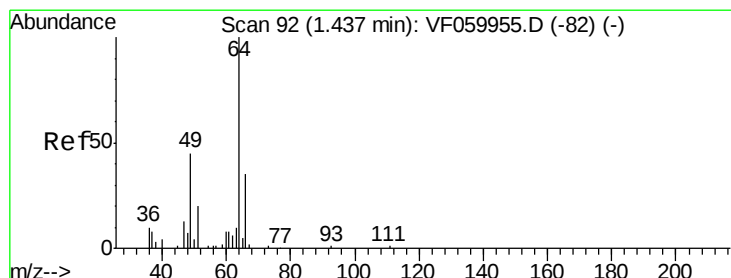
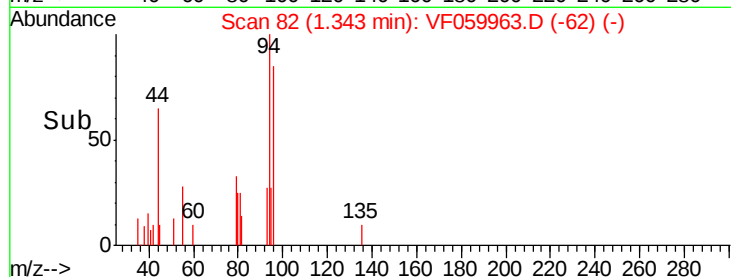
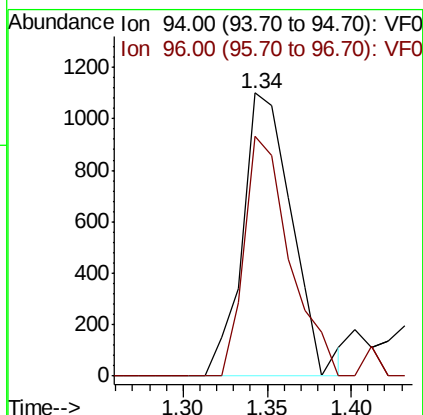
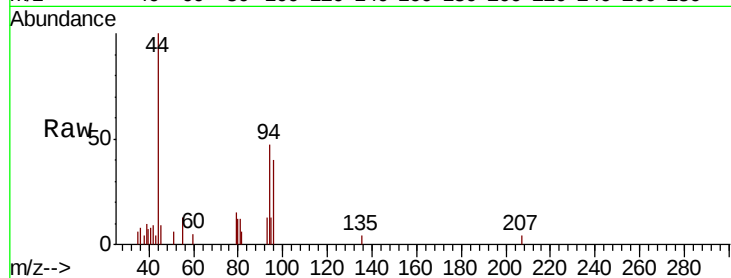
LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 94 Resp: 2243

Ion Ratio Lower Upper

94 100

96 84.9 76.3 114.5



#6

Chloroethane

Concen: 2.66 ug/l

RT: 1.43 min Scan# 91

Delta R.T. -0.01 min

Lab File: VF059963.D

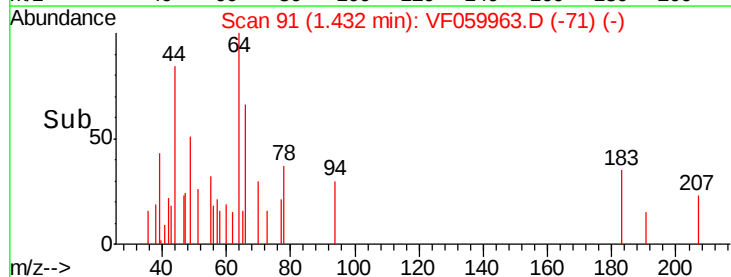
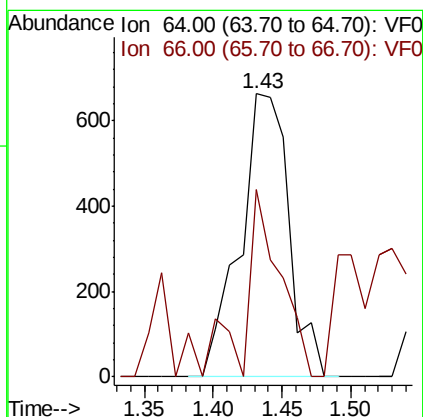
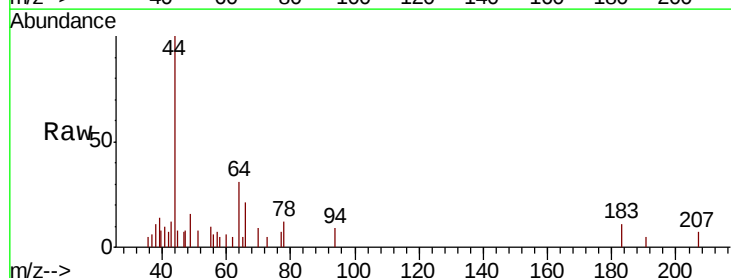
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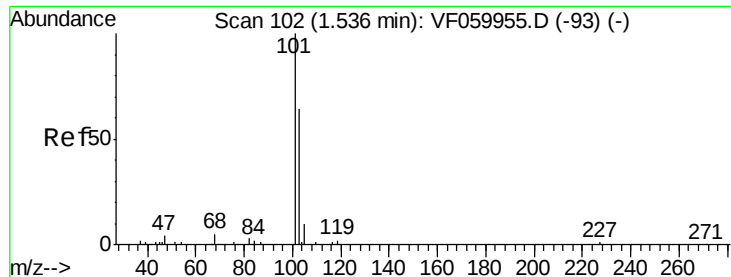
Tgt Ion: 64 Resp: 1640

Ion Ratio Lower Upper

64 100

66 66.4 28.2 42.2#





#7

Trichlorofluoromethane

Concen: 1.30 ug/l

RT: 1.55 min Scan# 103

Delta R.T. 0.01 min

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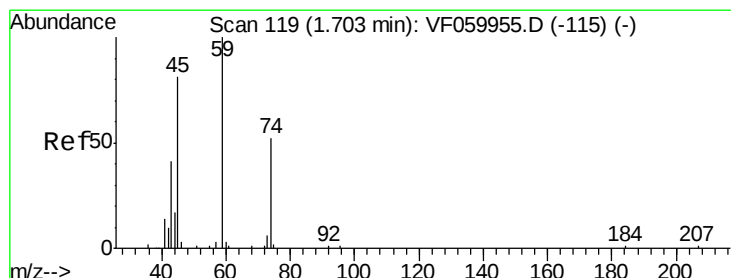
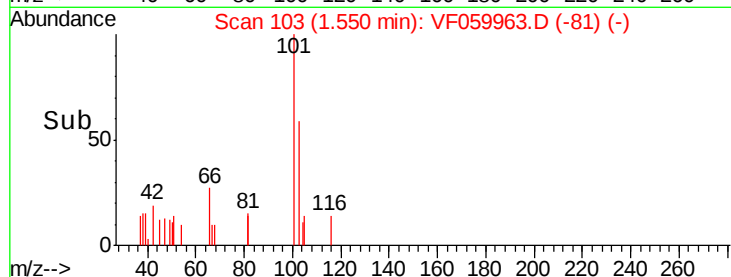
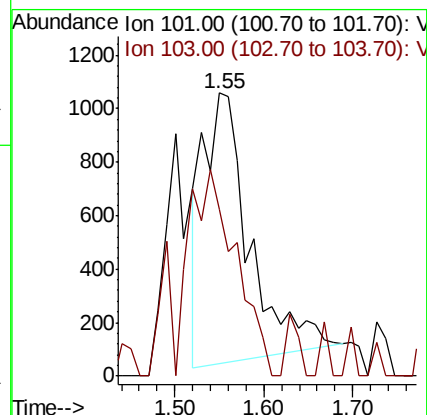
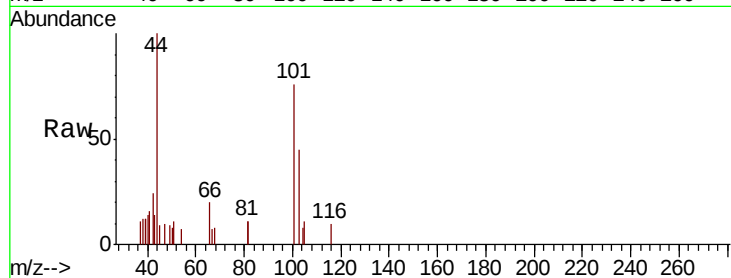
LOD-MDL-SOIL-01-QT3-2018

Tot Ion:101 Resp: 3611

Ion Ratio Lower Upper

101 100

103 59.1 51.6 77.4



#8

Diethyl Ether

Concen: 2.62 ug/l

RT: 1.71 min Scan# 119

Delta R.T. 0.00 min

Lab File: VF059963.D

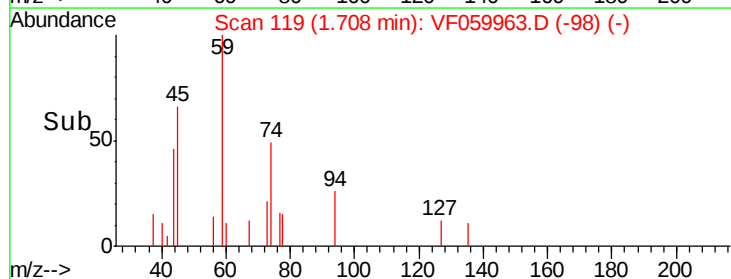
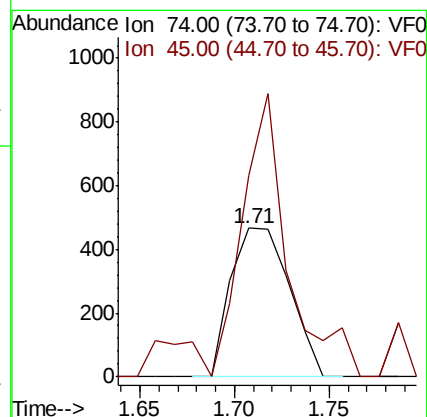
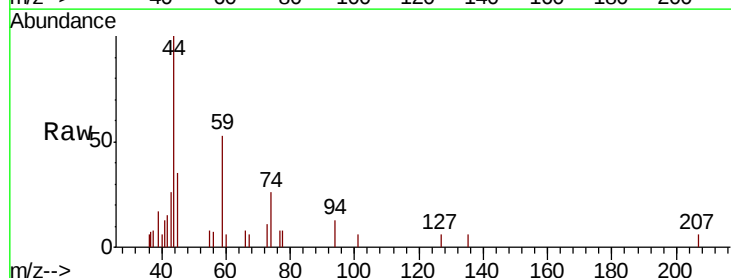
Acq: 15 Aug 2018 00:42

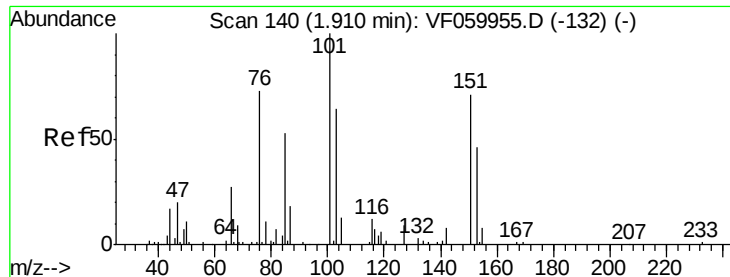
Tgt Ion: 74 Resp: 1001

Ion Ratio Lower Upper

74 100

45 135.1 77.5 232.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.28 ug/l

RT: 1.91 min Scan# 140

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

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LOD-MDL-SOIL-01-QT3-2018

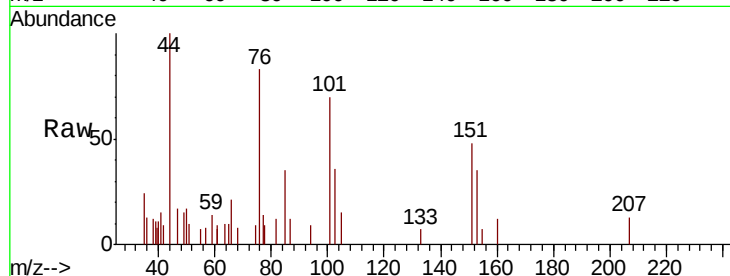
Tot Ion:101 Resp: 3204

Ion Ratio Lower Upper

101 100

85 50.8 42.1 63.1

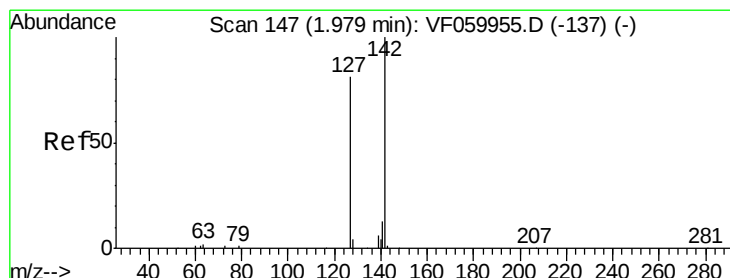
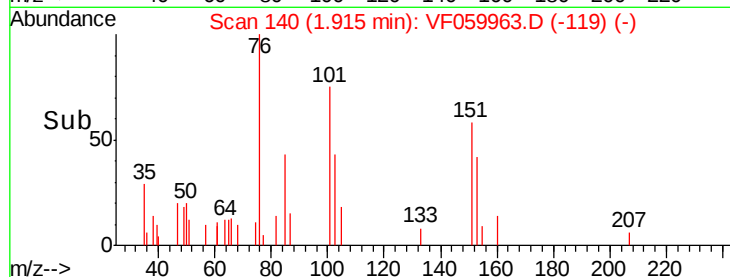
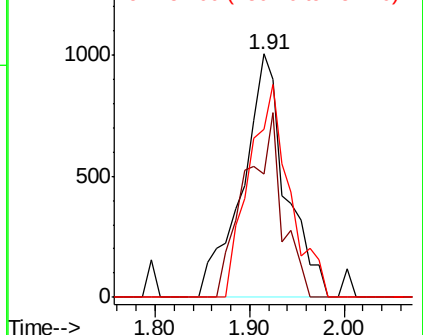
151 69.2 55.4 83.0



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: 2.53 ug/l

RT: 1.97 min Scan# 146

Delta R.T. -0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

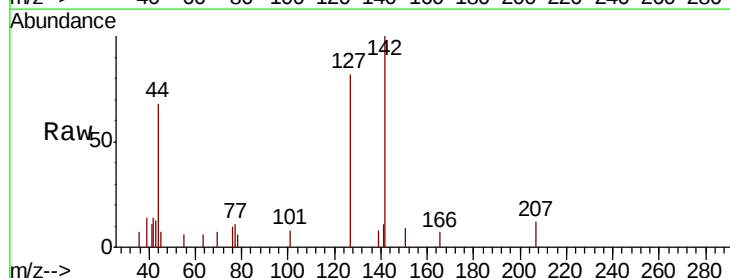
Tgt Ion:142 Resp: 5549

Ion Ratio Lower Upper

142 100

127 82.4 64.5 96.7

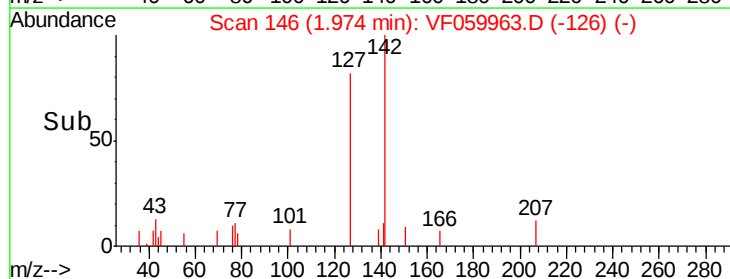
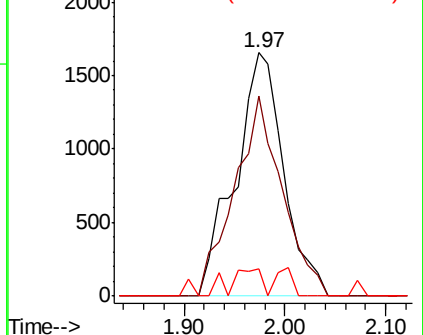
141 11.2 10.8 16.2

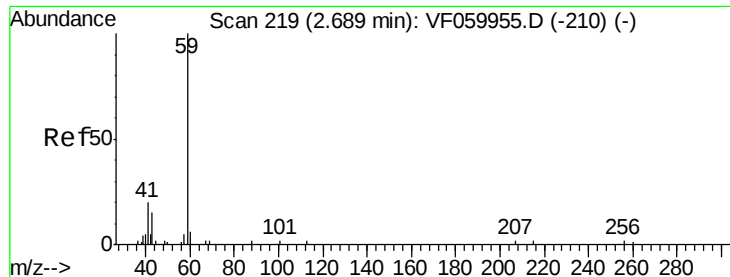


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

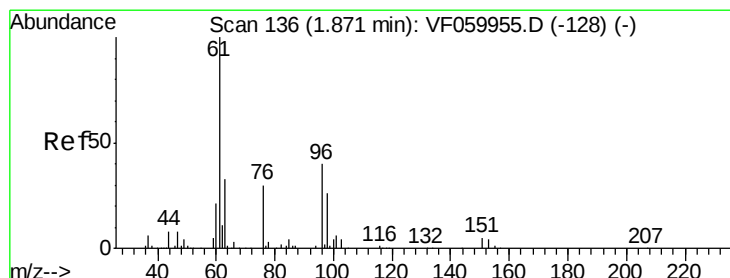
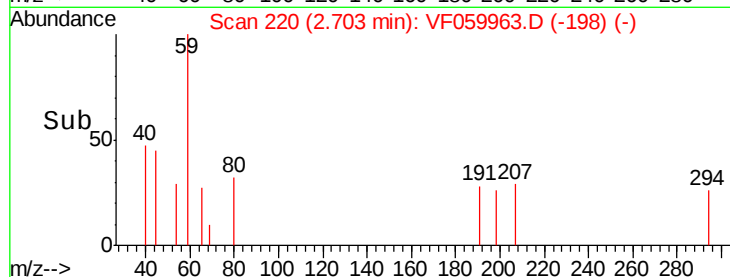
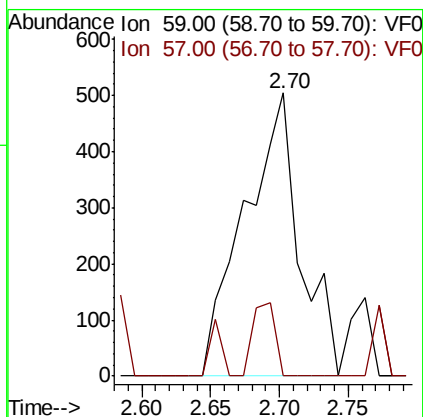
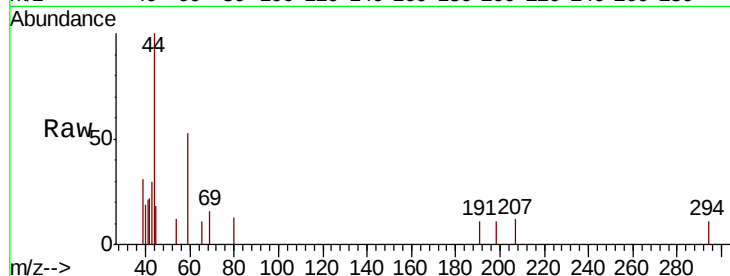




#11
Tert butyl alcohol
Concen: 15.56 ug/l
RT: 2.70 min Scan# 220
Delta R.T. 0.01 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

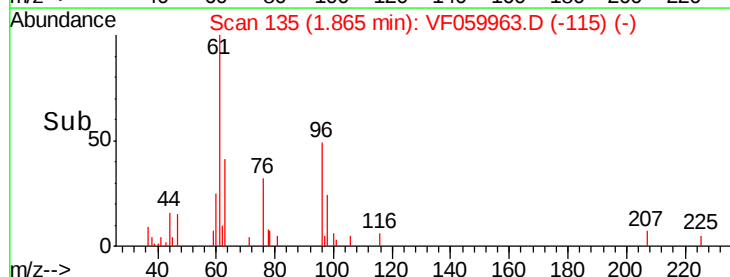
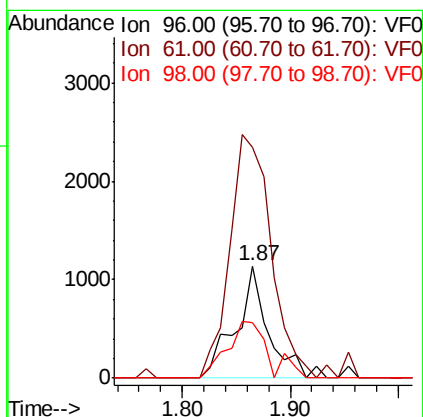
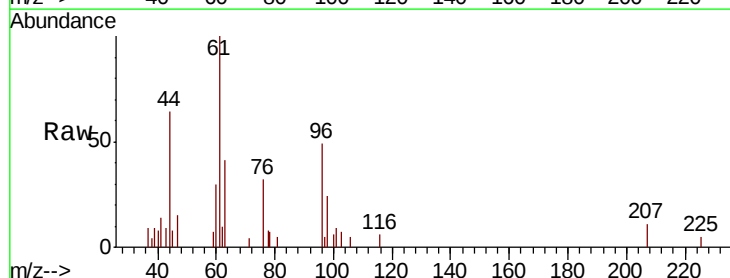
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

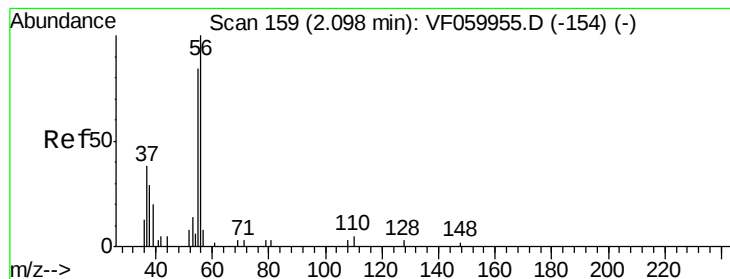
Tot Ion: 59 Resp: 1417
Ion Ratio Lower Upper
59 100
57 0.0 12.0 18.0#



#12
1,1-Dichloroethene
Concen: 2.31 ug/l
RT: 1.87 min Scan# 135
Delta R.T. -0.01 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Tgt Ion: 96 Resp: 2402
Ion Ratio Lower Upper
96 100
61 206.0 201.0 301.4
98 50.2 51.9 77.9#





#13

Acrolein

Concen: 27.89 ug/l

RT: 2.11 min Scan# 160

Delta R.T. 0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

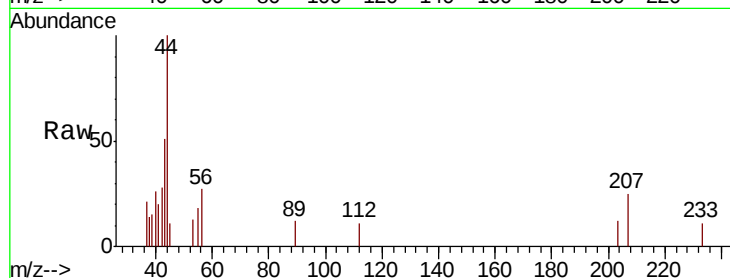
LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 56 Resp: 651

Ion Ratio Lower Upper

56 100

55 67.4 67.4 101.2#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

2.11

250

200

150

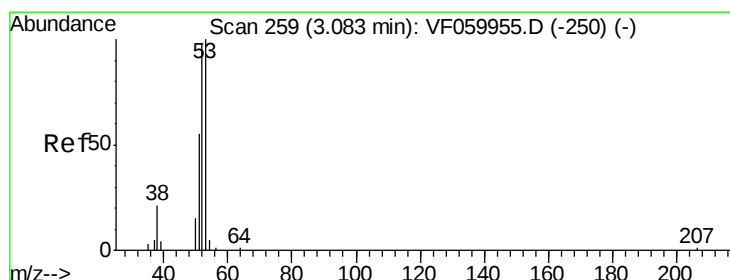
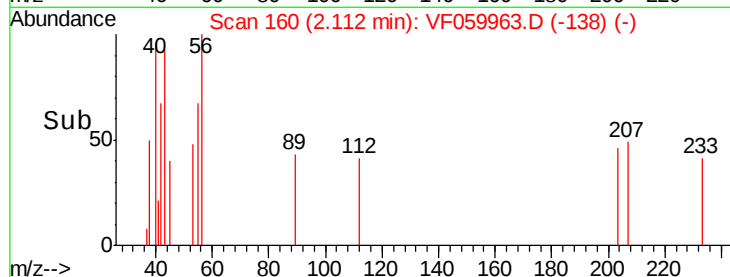
100

50

0

2.05 2.10 2.15

Time-->



#15

Acrylonitrile

Concen: 13.32 ug/l

RT: 3.09 min Scan# 259

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

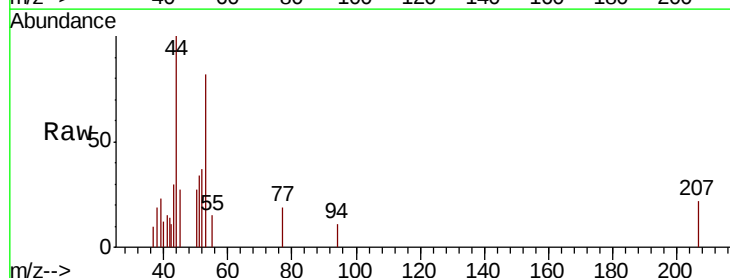
Tgt Ion: 53 Resp: 1840

Ion Ratio Lower Upper

53 100

52 45.0 78.1 117.1#

51 41.4 44.2 66.4#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

1200

1000

800

600

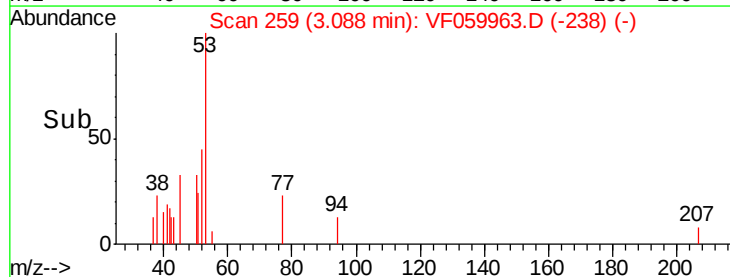
400

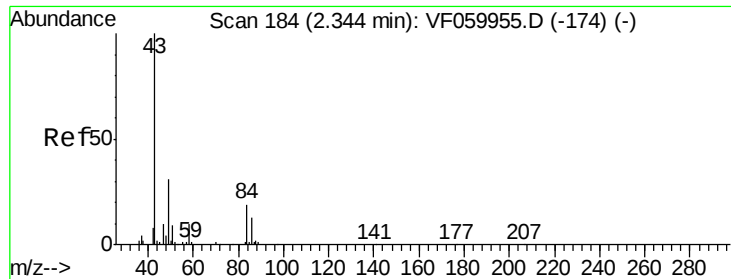
200

0

3.00 3.05 3.10 3.15 3.20

Time-->





#16

Acetone

Concen: 15.64 ug/l

RT: 2.35 min Scan# 184

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

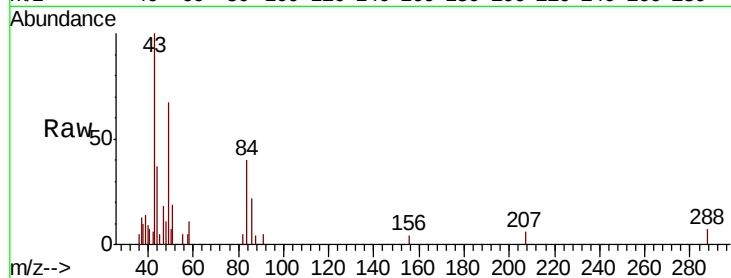
LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 43 Resp: 7118

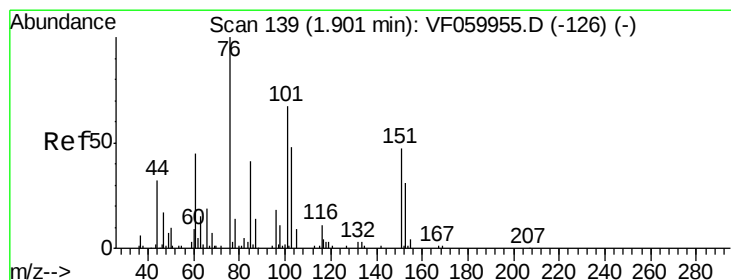
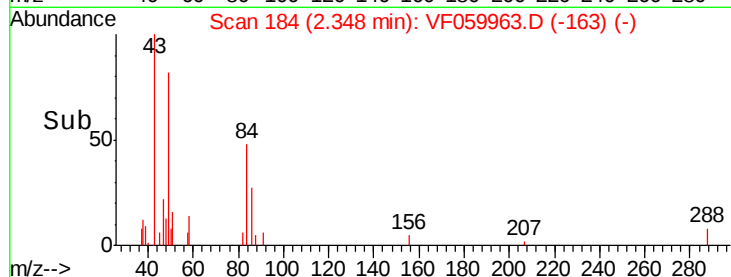
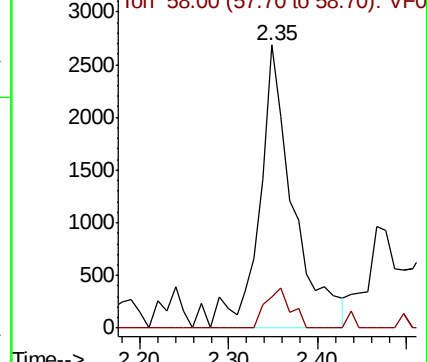
Ion Ratio Lower Upper

43 100

58 11.2 8.1 12.1



Abundance Ion 43.00 (42.70 to 43.70): VF0



#17

Carbon Disulfide

Concen: 2.39 ug/l

RT: 1.89 min Scan# 138

Delta R.T. -0.01 min

Lab File: VF059963.D

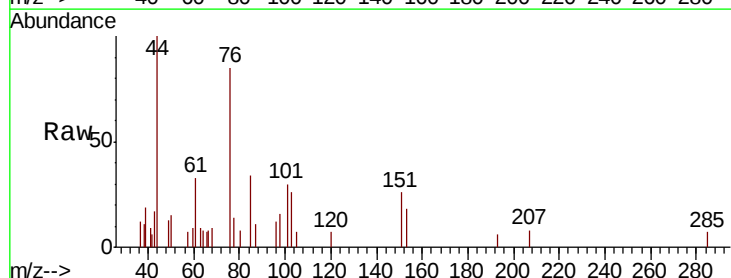
Acq: 15 Aug 2018 00:42

Tgt Ion: 76 Resp: 6364

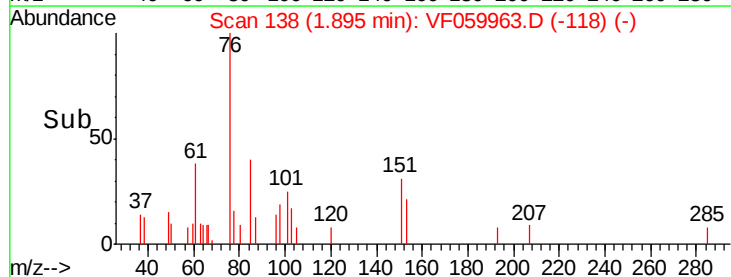
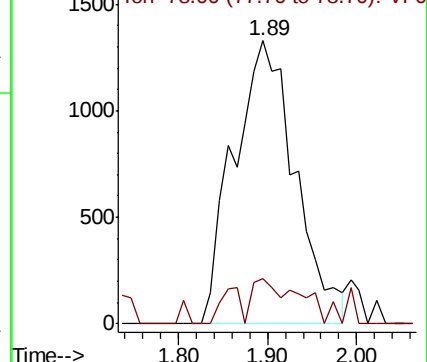
Ion Ratio Lower Upper

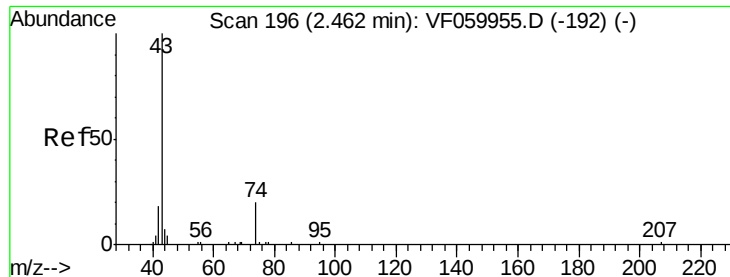
76 100

78 16.0 11.4 17.0



Abundance Ion 76.00 (75.70 to 76.70): VF0

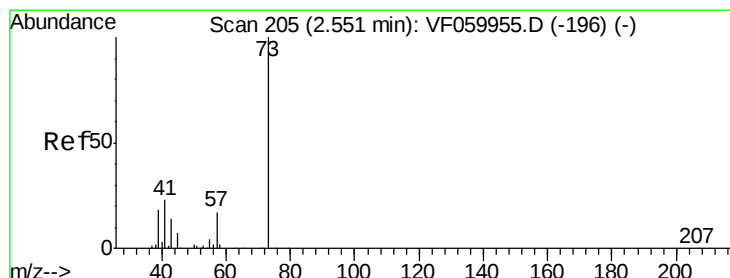
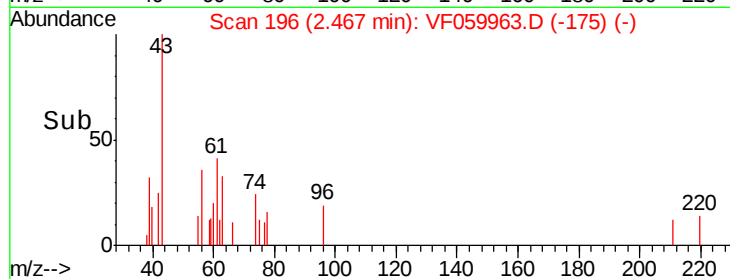
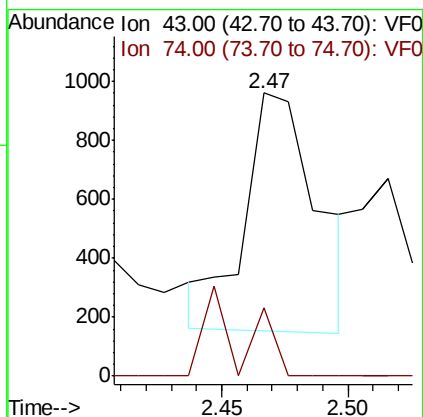
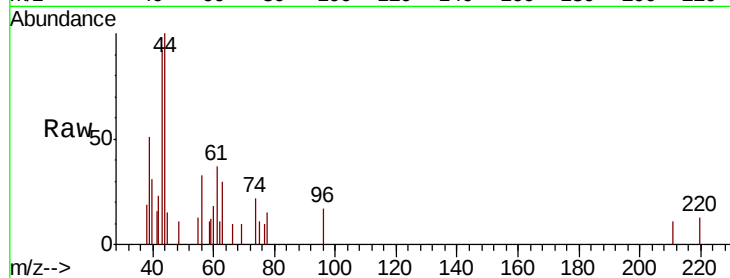




#18
Methvl Acetate
Concen: 2.58 ug/l
RT: 2.47 min Scan# 196
Delta R.T. 0.00 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

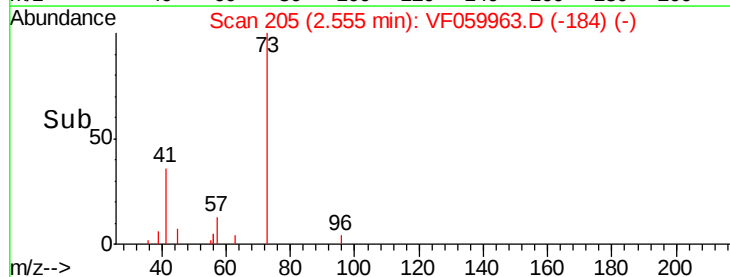
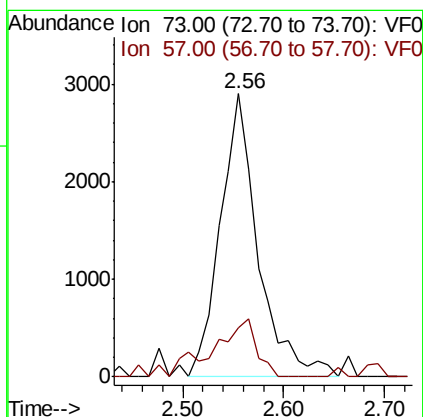
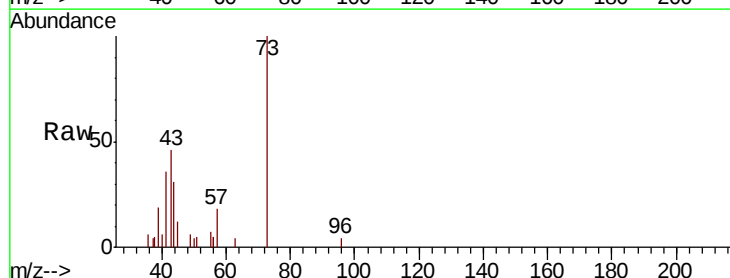
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

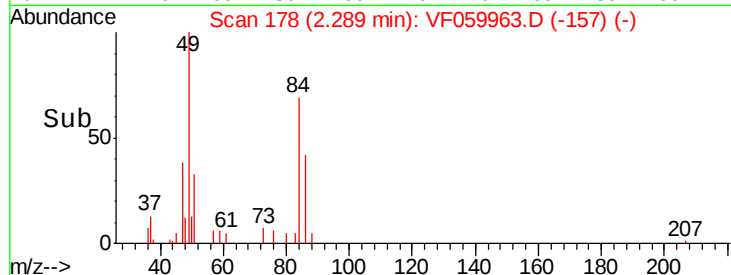
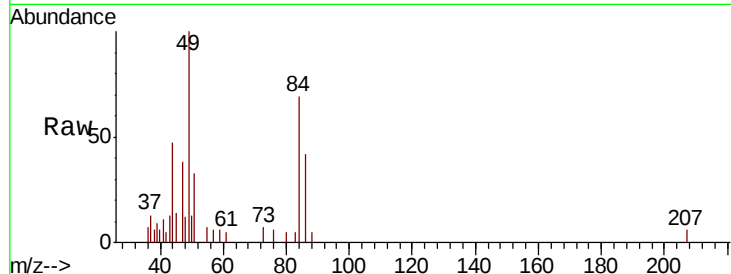
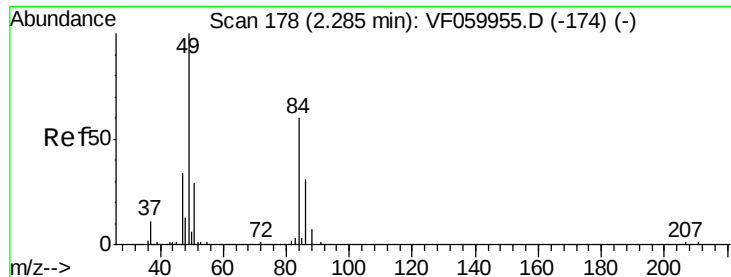
Tot Ion: 43 Resp: 1633
Ion Ratio Lower Upper
43 100
74 24.0 14.3 21.5#



#19
Methyl tert-butyl Ether
Concen: 2.52 ug/l
RT: 2.56 min Scan# 205
Delta R.T. 0.00 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Tgt Ion: 73 Resp: 7536
Ion Ratio Lower Upper
73 100
57 17.6 14.0 21.0

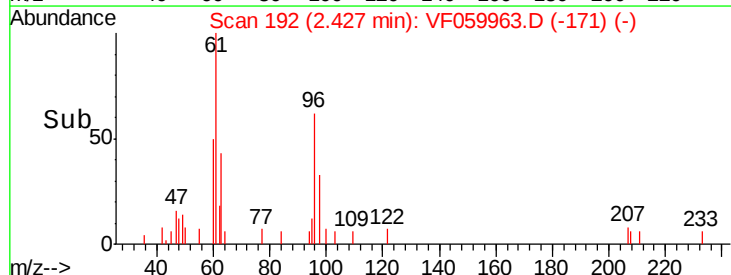
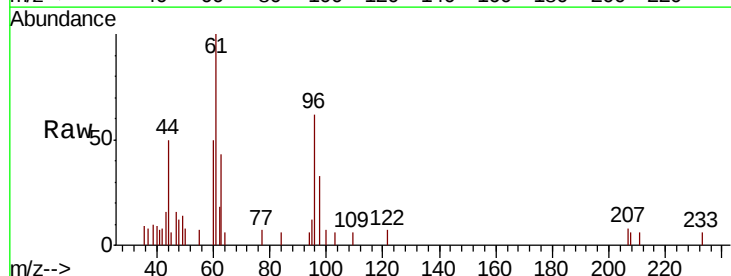
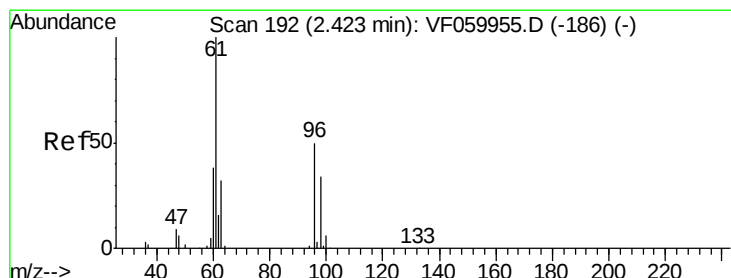
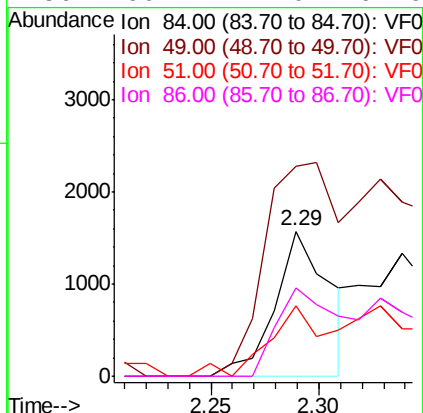




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.29 min Scan# 178
Delta R.T. 0.01 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

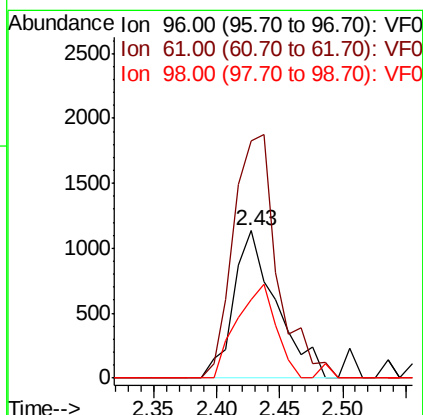
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

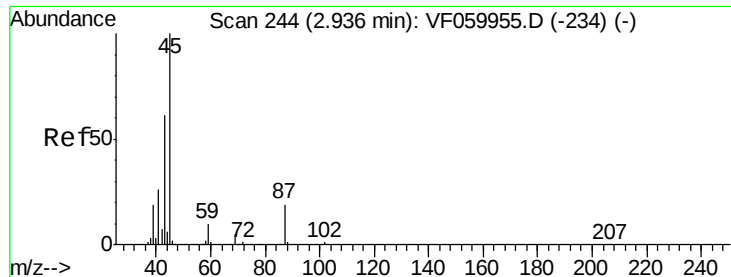
Tot Ion:	84	Resp:	2764
Ion	Ratio	Lower	Upper
84	100		
49	145.2	134.8	202.2
51	48.4	39.8	59.6
86	60.7	41.0	61.6



#21
trans-1,2-Dichloroethene
Concen: 2.63 ug/l
RT: 2.43 min Scan# 192
Delta R.T. 0.00 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Tgt Ion:	96	Resp:	2658
Ion	Ratio	Lower	Upper
96	100		
61	160.9	159.5	239.3
98	53.7	53.8	80.6#

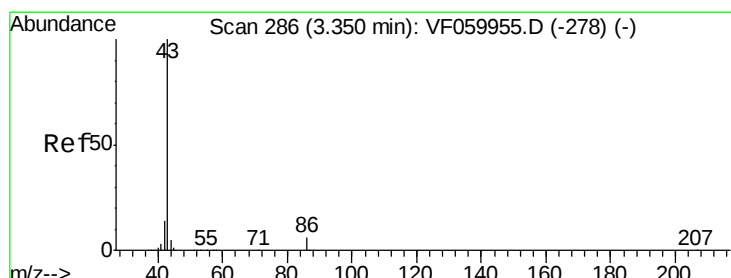
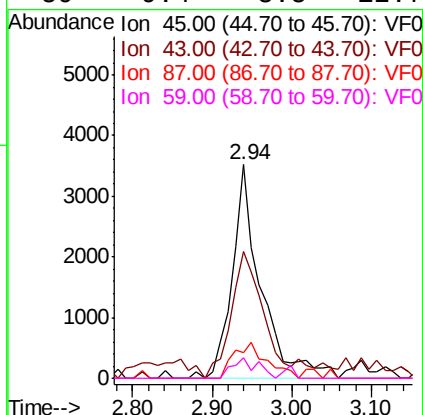
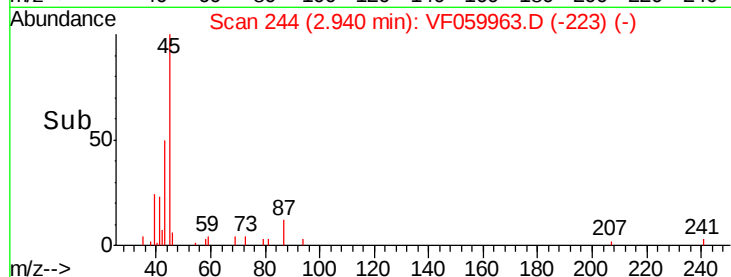
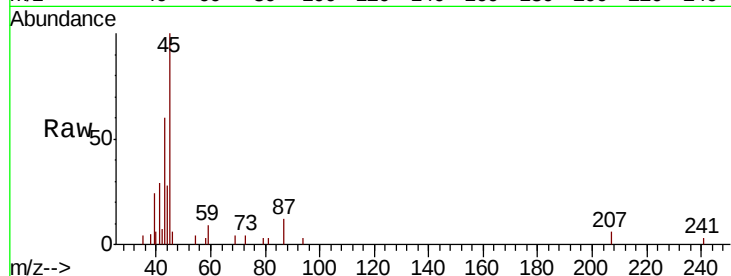




#22
Diisopropyl ether
Concen: 2.59 ug/l
RT: 2.94 min Scan# 244
Delta R.T. 0.00 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

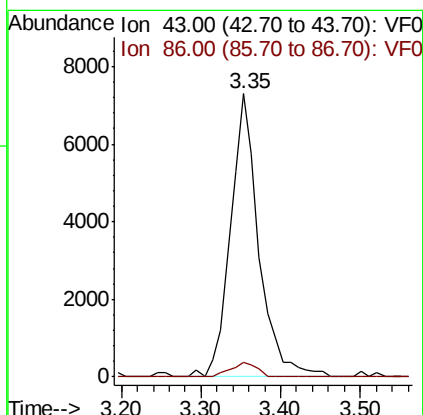
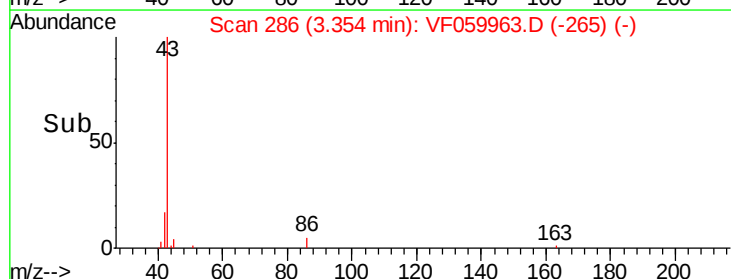
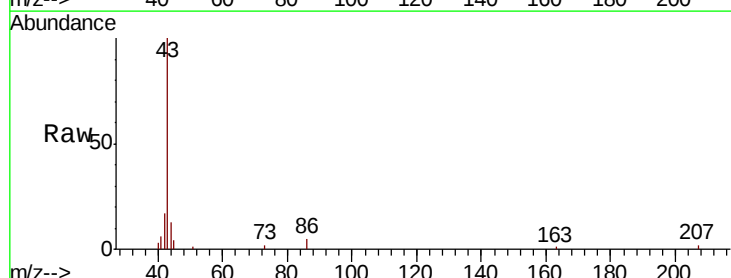
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

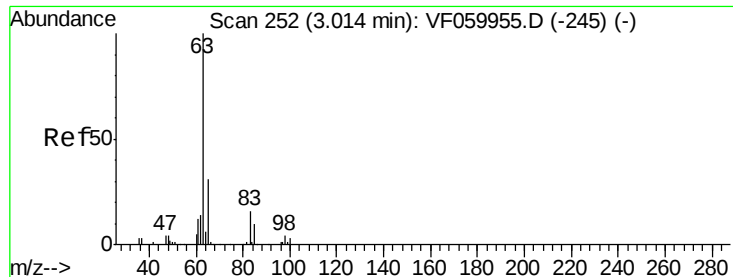
Tot Ion:	45	Resp:	8806
Ion	Ratio	Lower	Upper
45	100		
43	59.6	48.7	73.1
87	12.1	15.3	22.9
59	9.4	8.5	12.7



#23
Vinyl Acetate
Concen: 10.73 ug/l
RT: 3.35 min Scan# 286
Delta R.T. 0.00 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Tgt Ion:	43	Resp:	18112
Ion	Ratio	Lower	Upper
43	100		
86	5.3	4.9	7.3





#24

1,1-Dichloroethane

Concen: 2.51 ug/l

RT: 3.02 min Scan# 252

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

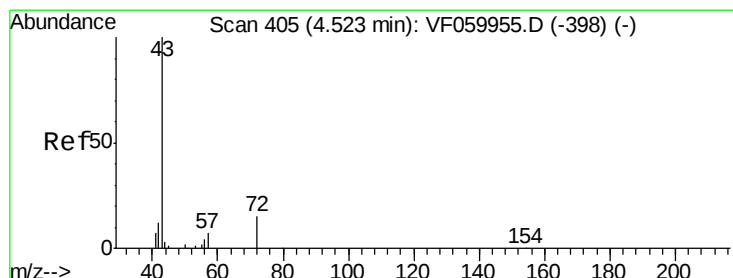
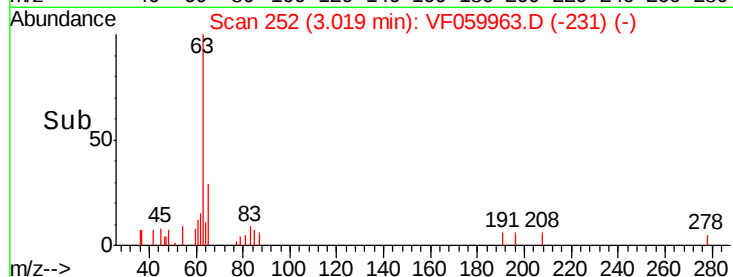
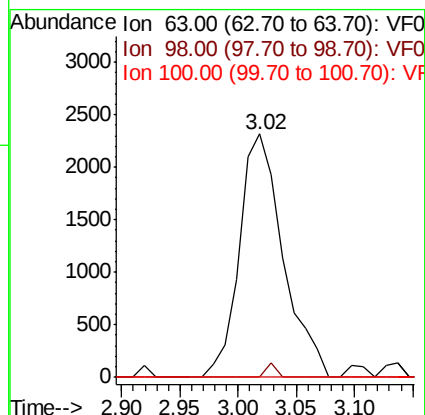
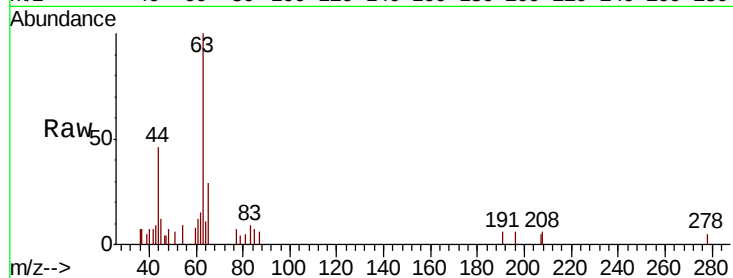
Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion:	63	Resp:	6032
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.1	6.2#
100	0.0	1.7	5.1#



#25

2-Butanone

Concen: 13.50 ug/l

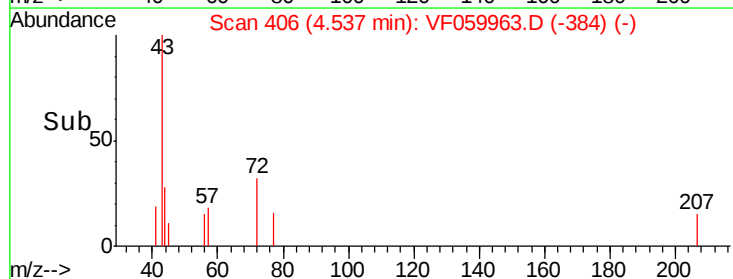
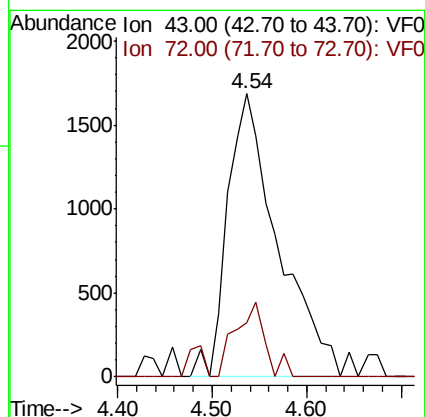
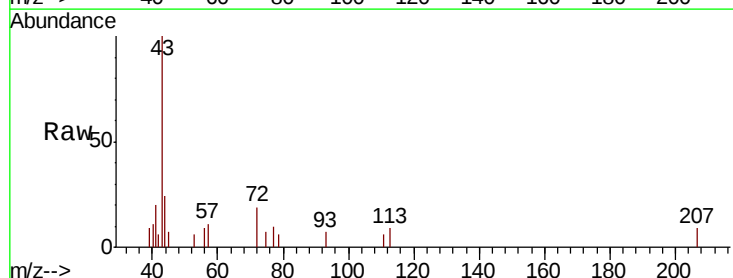
RT: 4.54 min Scan# 406

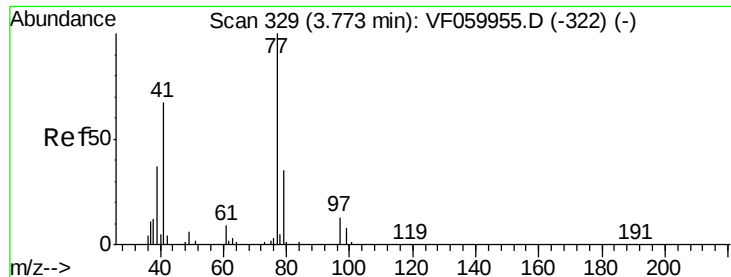
Delta R.T. 0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Tgt Ion:	43	Resp:	6212
Ion	Ratio	Lower	Upper
43	100		
72	19.2	14.6	22.0





#26

2,2-Dichloropropane

Concen: 2.55 ug/l

RT: 3.78 min Scan# 329

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

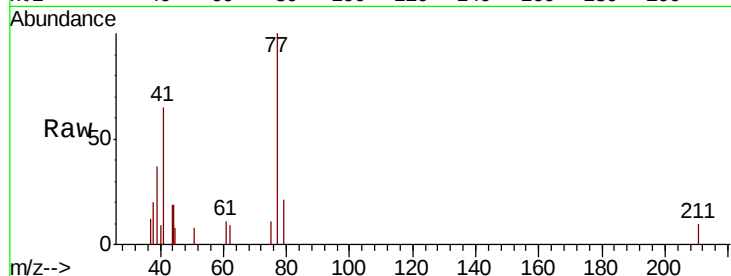
LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 77 Resp: 3980

Ion Ratio Lower Upper

77 100

97 0.0 6.6 19.7#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0

1500

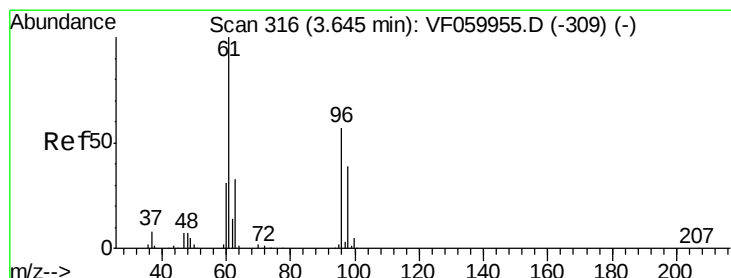
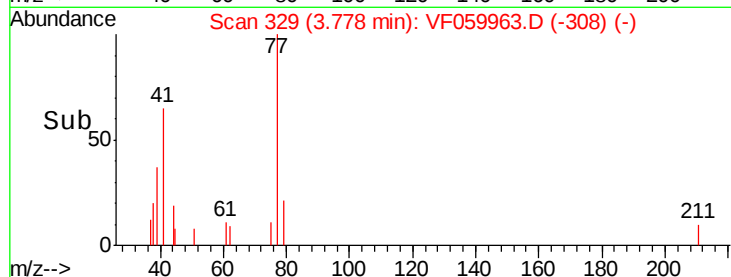
1000

500

0

3.70 3.75 3.80 3.85 3.90

Time-->



#27

cis-1,2-Dichloroethene

Concen: 2.16 ug/l

RT: 3.65 min Scan# 316

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

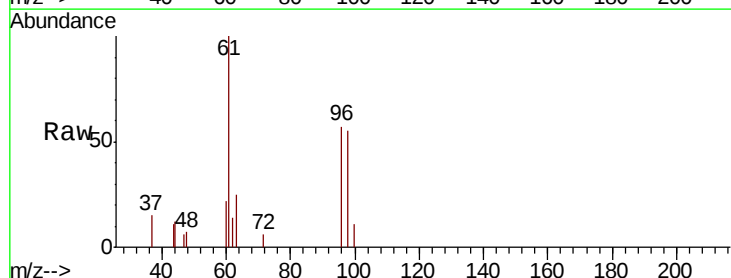
Tgt Ion: 96 Resp: 2409

Ion Ratio Lower Upper

96 100

61 174.9 0.0 349.4

98 96.0 0.0 134.6



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

2500

2000

1500

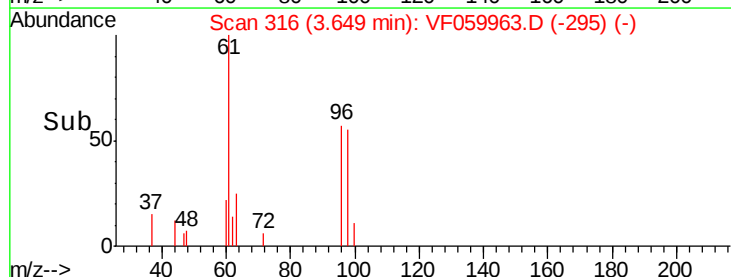
1000

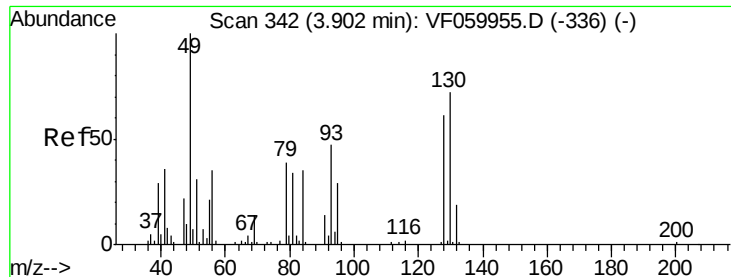
500

0

3.55 3.60 3.65 3.70 3.75

Time-->





#28

Bromochloromethane

Concen: 2.71 ug/l

RT: 3.91 min Scan# 342

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

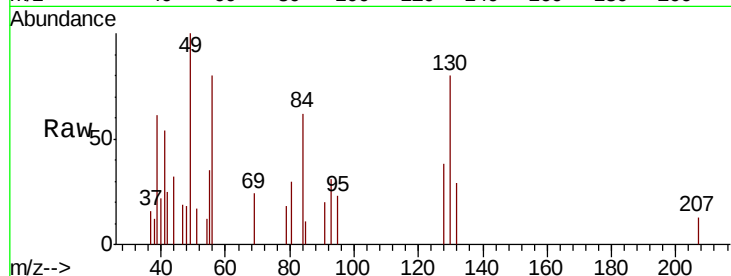
Tot Ion: 49 Resp: 2424

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

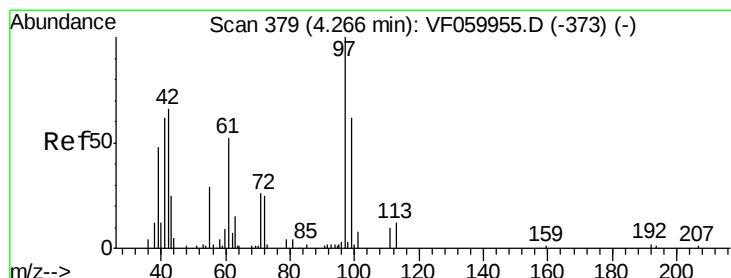
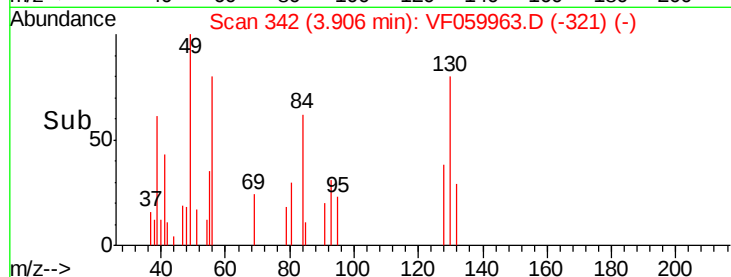
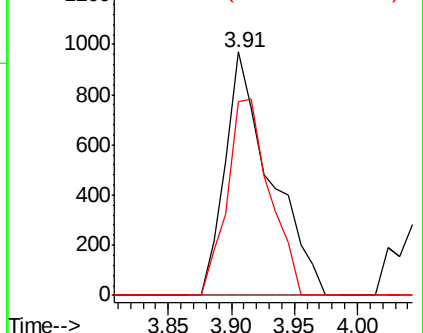
130 79.7 58.1 87.1



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: 17.44 ug/l

RT: 4.27 min Scan# 379

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

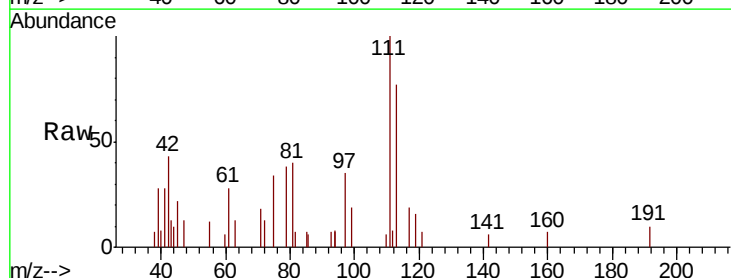
Tgt Ion: 42 Resp: 2758

Ion Ratio Lower Upper

42 100

72 24.3 27.7 41.5#

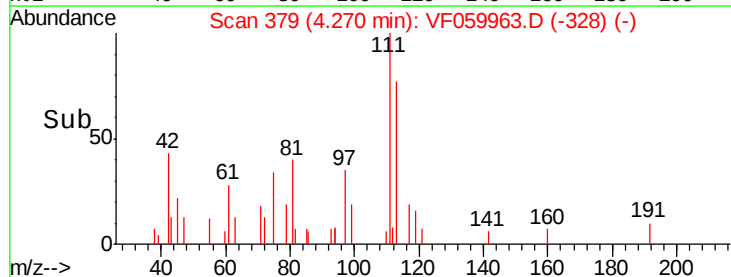
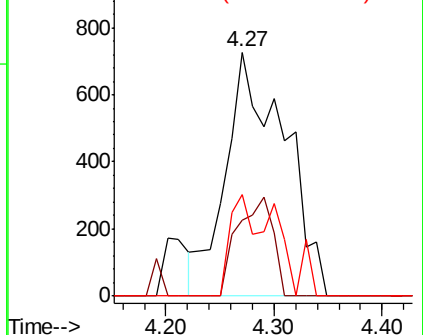
71 33.1 28.2 42.4

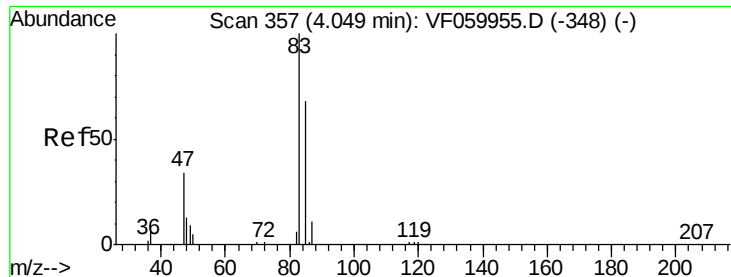


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

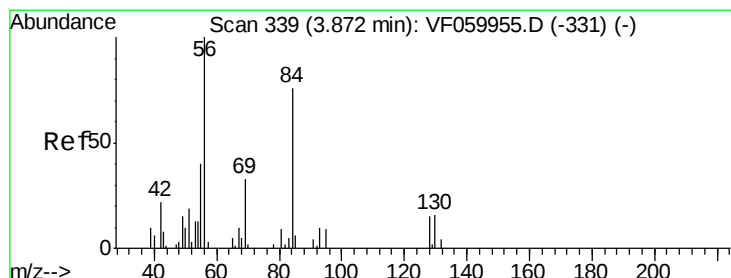
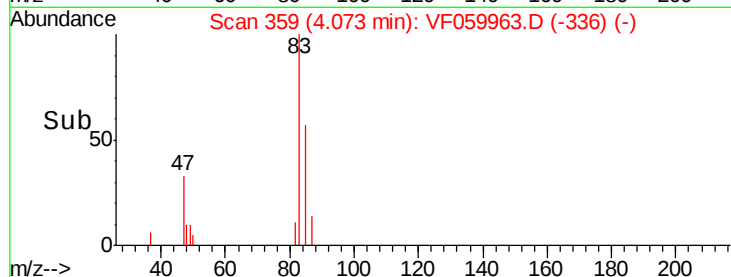
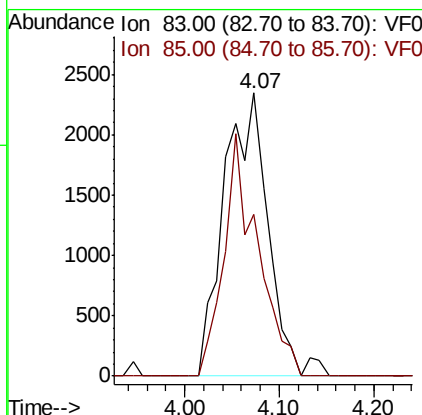
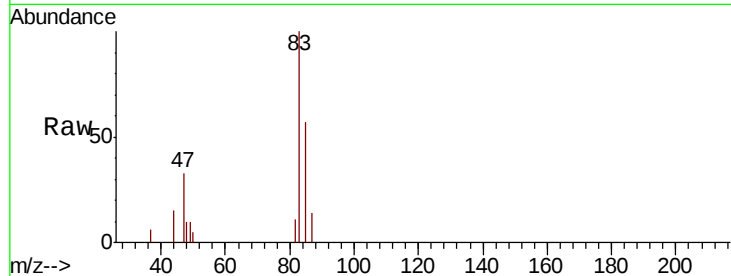




#30
Chloroform
Concen: 2.30 ug/l
RT: 4.07 min Scan# 359
Delta R.T. 0.02 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

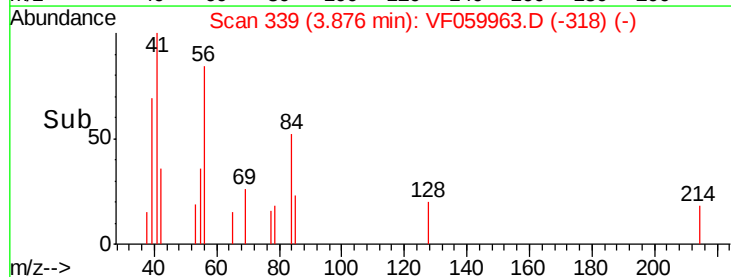
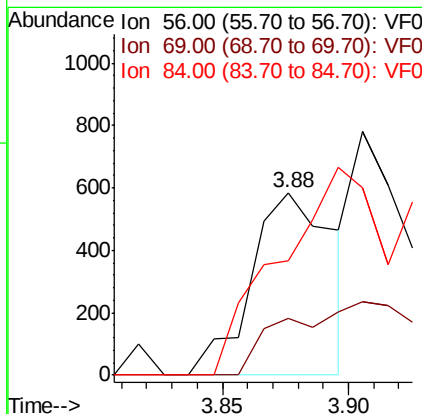
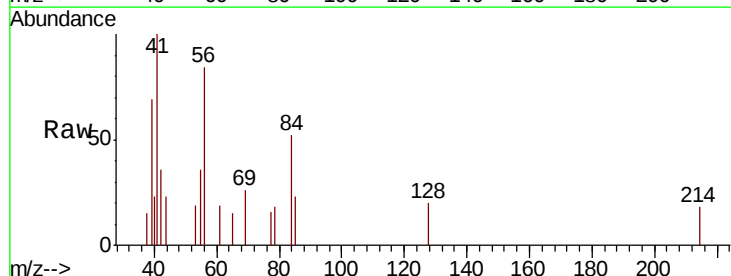
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

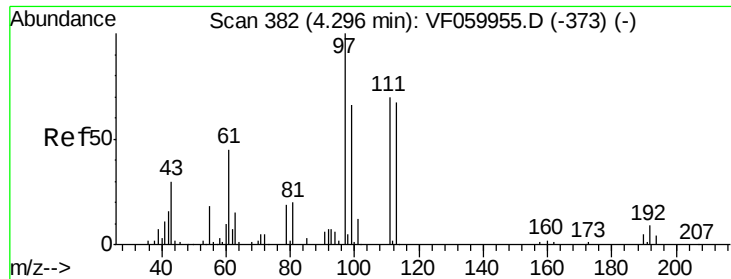
Tot Ion: 83 Resp: 7590
Ion Ratio Lower Upper
83 100
85 57.1 54.4 81.6



#31
Cyclohexane
Concen: 1.11 ug/l
RT: 3.88 min Scan# 339
Delta R.T. 0.00 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Tgt Ion: 56 Resp: 1338
Ion Ratio Lower Upper
56 100
69 30.9 26.2 39.2
84 62.5 61.0 91.4





#32

1,1,1-Trichloroethane

Concen: 2.17 ug/l

RT: 4.31 min Scan# 383

Delta R.T. 0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

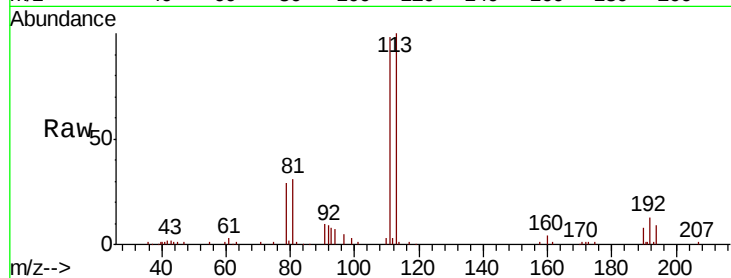
Tot Ion: 97 Resp: 5885

Ion Ratio Lower Upper

97 100

99 54.8 53.0 79.4

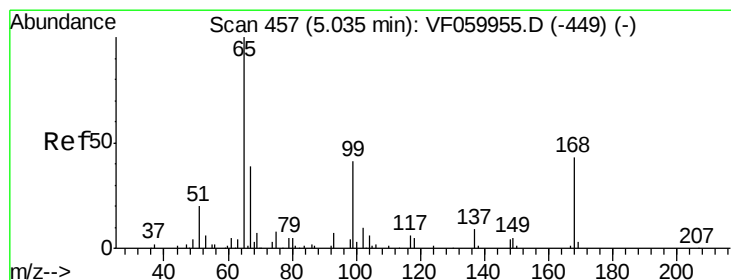
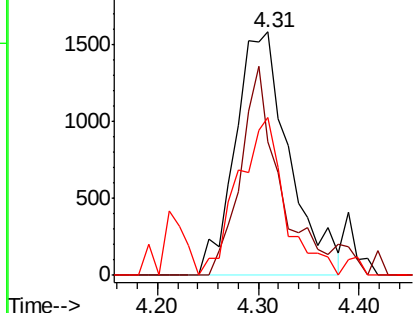
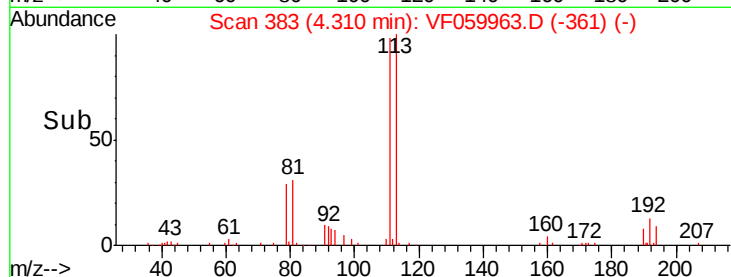
61 64.8 36.6 55.0#



Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 49.84 ug/l

RT: 5.04 min Scan# 457

Delta R.T. 0.00 min

Lab File: VF059963.D

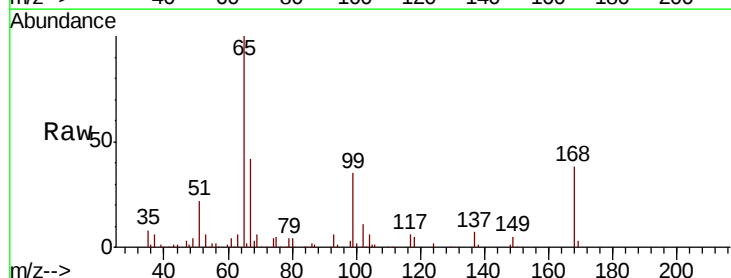
Acq: 15 Aug 2018 00:42

Tgt Ion: 65 Resp: 114286

Ion Ratio Lower Upper

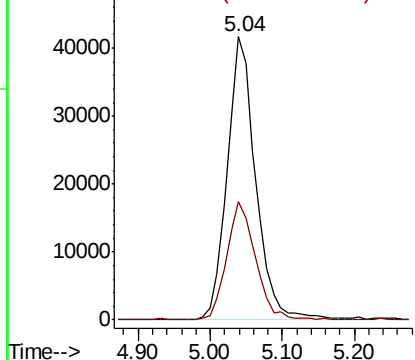
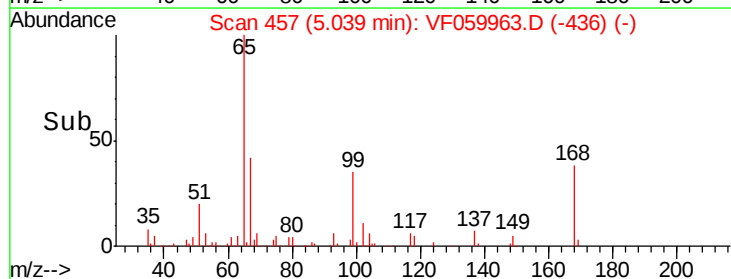
65 100

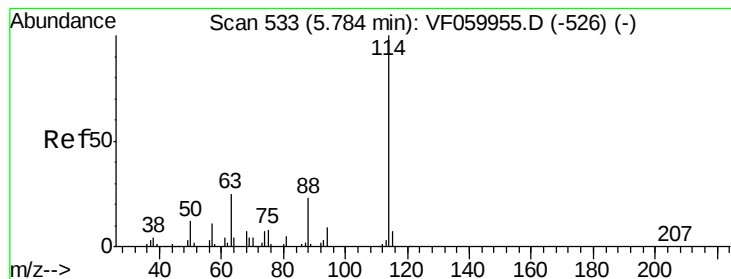
67 41.9 0.0 87.4



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.79 min Scan# 533

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

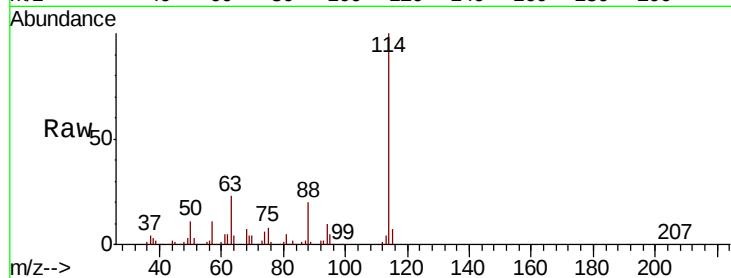
Tot Ion:114 Resp: 186020

Ion Ratio Lower Upper

114 100

63 23.0 0.0 50.2

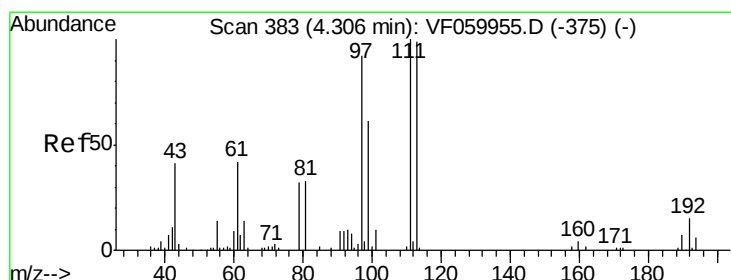
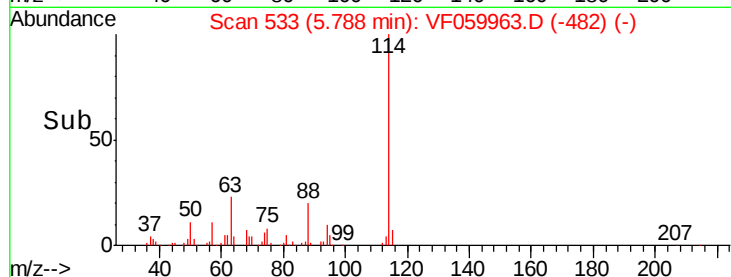
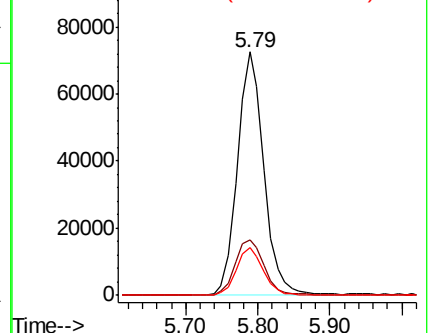
88 19.8 0.0 46.8



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: 51.85 ug/l

RT: 4.32 min Scan# 384

Delta R.T. 0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

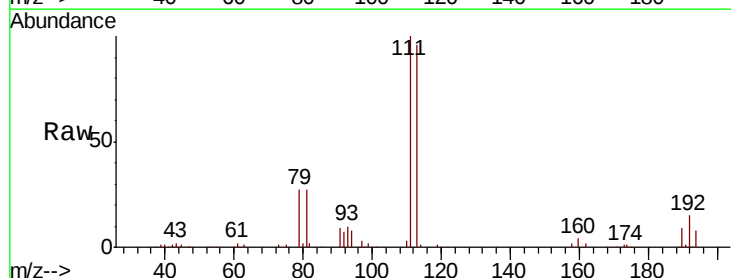
Tgt Ion:113 Resp: 96656

Ion Ratio Lower Upper

113 100

111 104.3 80.6 121.0

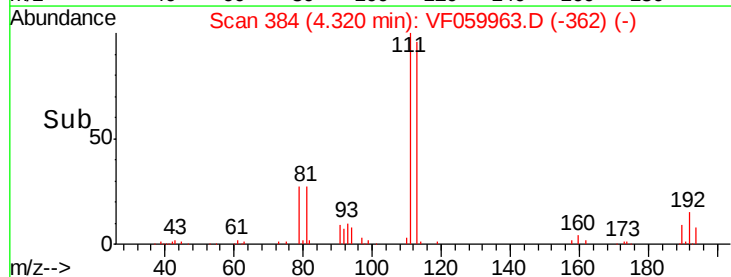
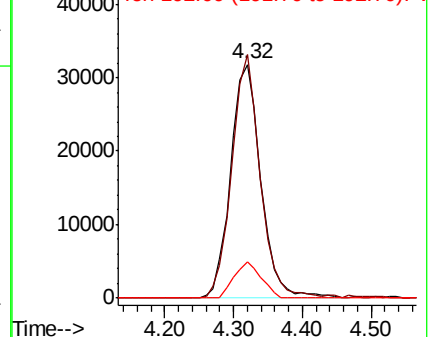
192 15.7 11.7 17.5

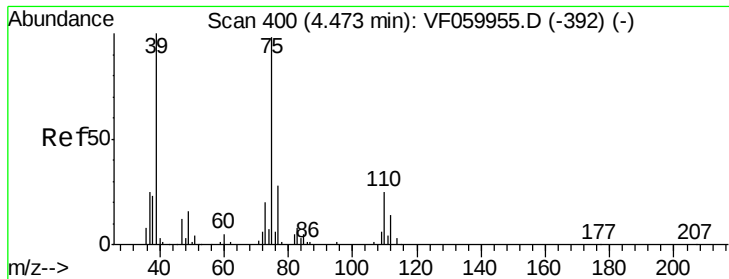


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#36

1,1-Dichloropropene

Concen: 2.34 ug/l

RT: 4.49 min Scan# 401

Delta R.T. 0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

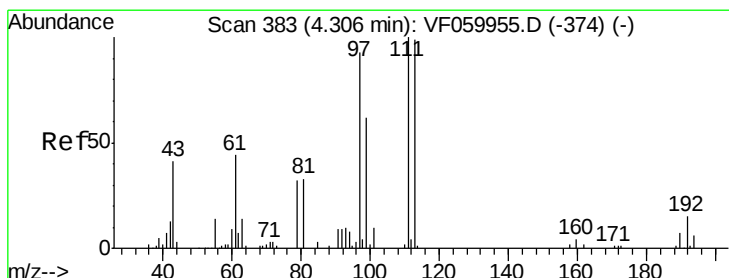
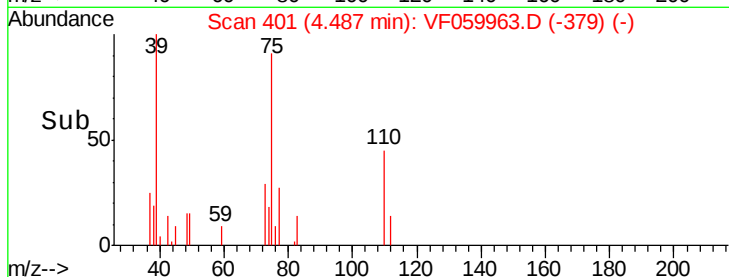
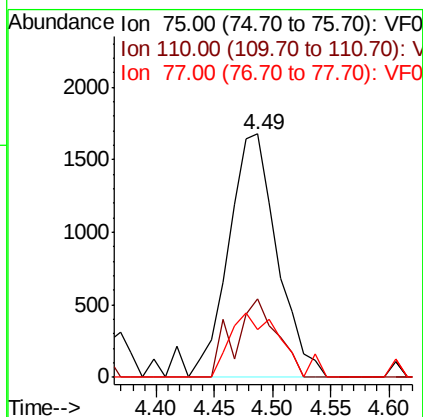
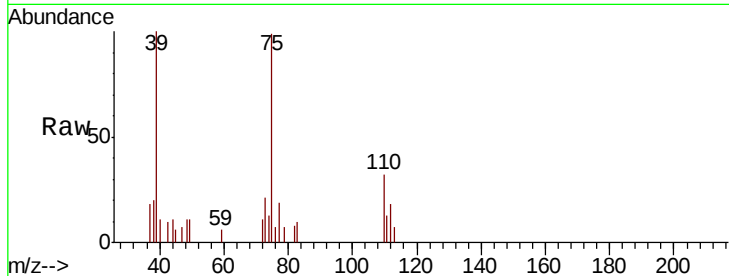
Tot Ion: 75 Resp: 4845

Ion Ratio Lower Upper

75 100

110 32.1 12.6 37.8

77 19.5 22.7 34.1#



#37

Ethyl Acetate

Concen: 2.74 ug/l

RT: 4.32 min Scan# 384

Delta R.T. 0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

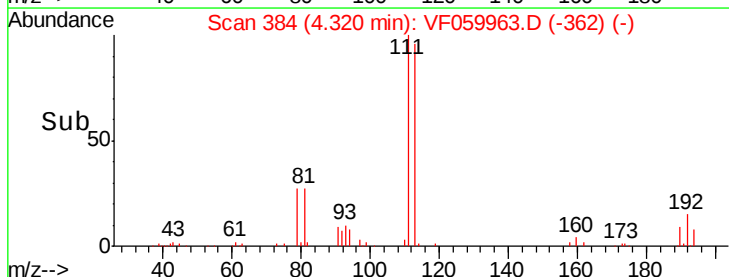
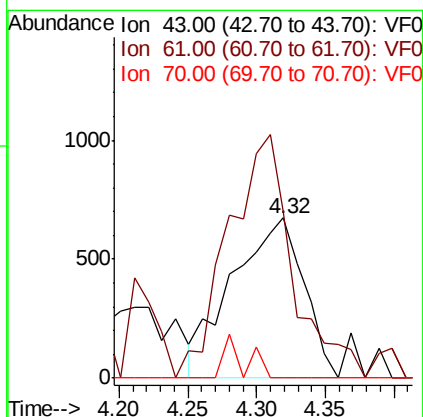
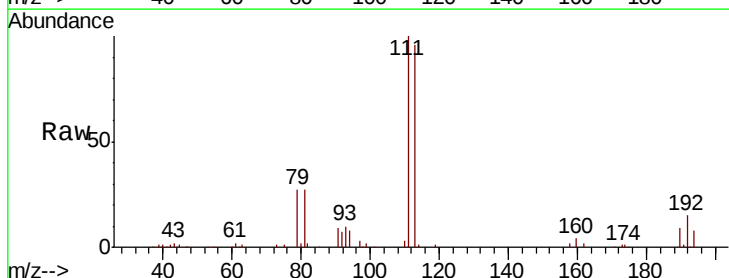
Tgt Ion: 43 Resp: 2427

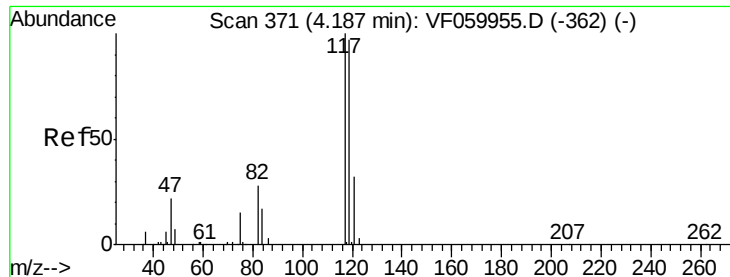
Ion Ratio Lower Upper

43 100

61 104.2 84.3 126.5

70 0.0 5.5 8.3#





#38

Carbon Tetrachloride

Concen: 2.09 ug/l

RT: 4.20 min Scan# 372

Delta R.T. 0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

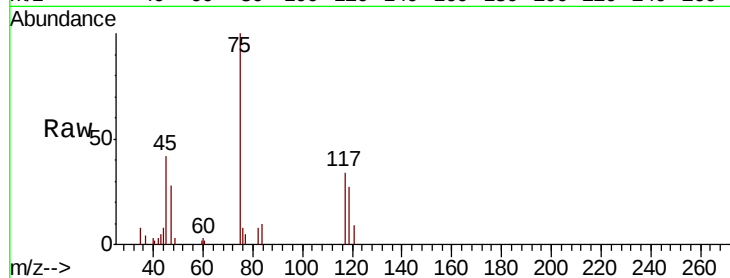
Tot Ion:117 Resp: 7207

Ion Ratio Lower Upper

117 100

119 79.7 76.9 115.3

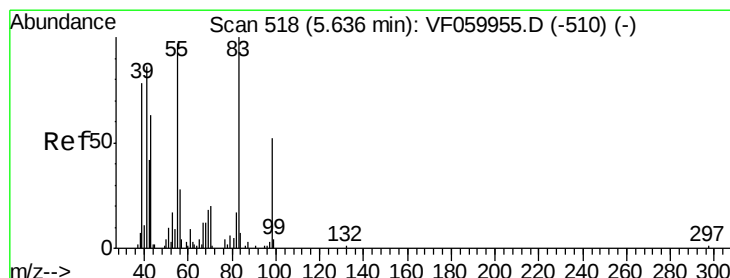
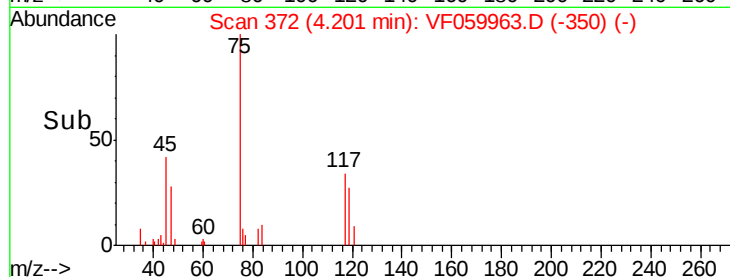
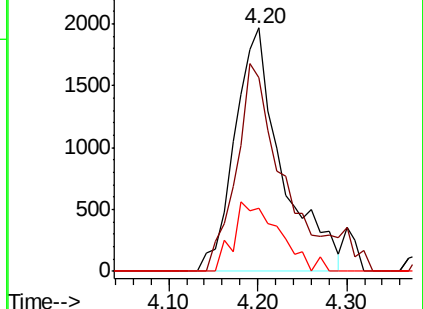
121 26.1 24.9 37.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#39

Methylcyclohexane

Concen: 2.51 ug/l

RT: 5.64 min Scan# 518

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

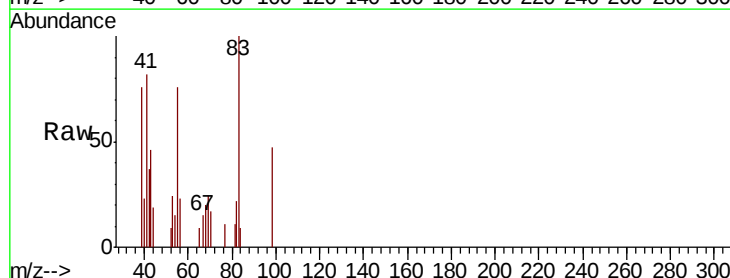
Tgt Ion: 83 Resp: 3768

Ion Ratio Lower Upper

83 100

55 75.9 77.4 116.2#

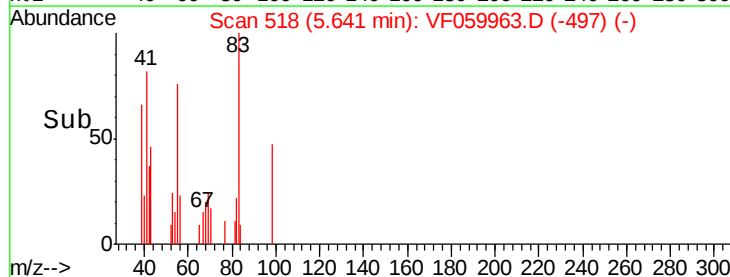
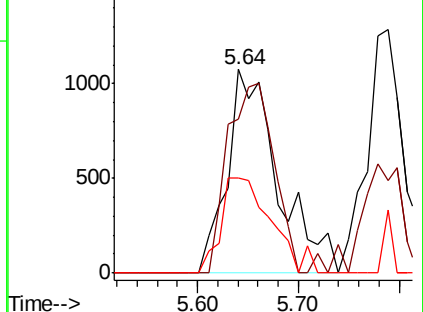
98 46.6 41.5 62.3

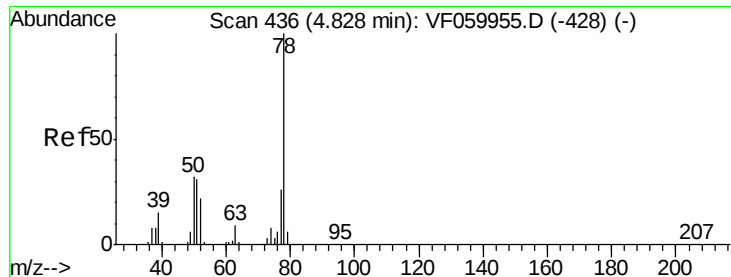


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#40

Benzene

Concen: 2.35 ug/l

RT: 4.83 min Scan# 436

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

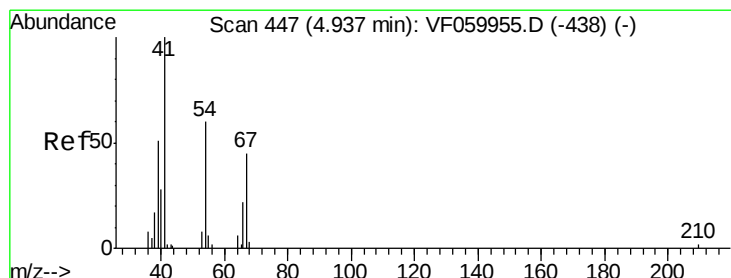
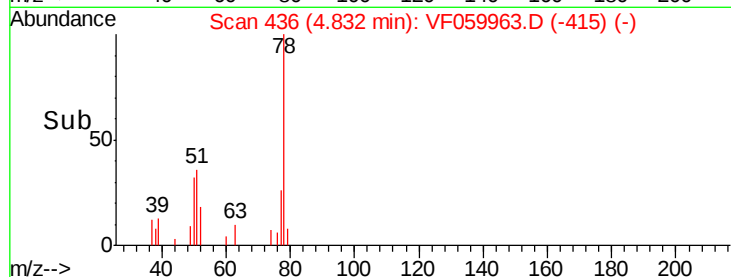
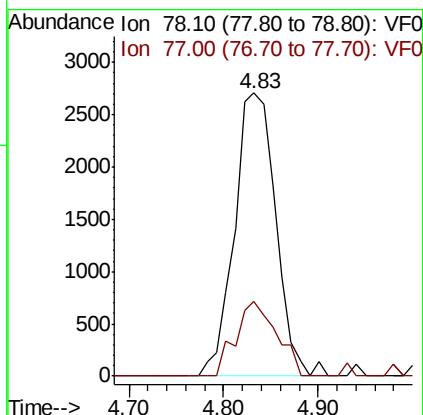
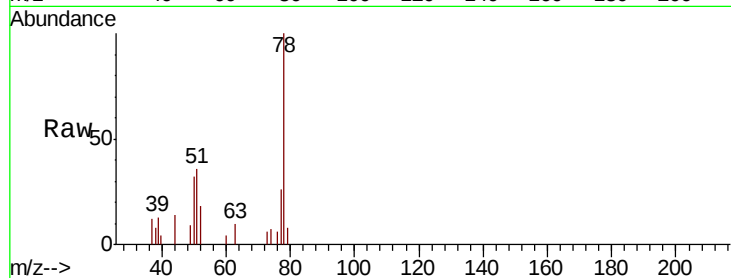
LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 78 Resp: 8221

Ion Ratio Lower Upper

78 100

77 26.4 21.1 31.7



#41

Methacrylonitrile

Concen: 2.71 ug/l

RT: 4.93 min Scan# 446

Delta R.T. -0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Tgt Ion: 41 Resp: 1182

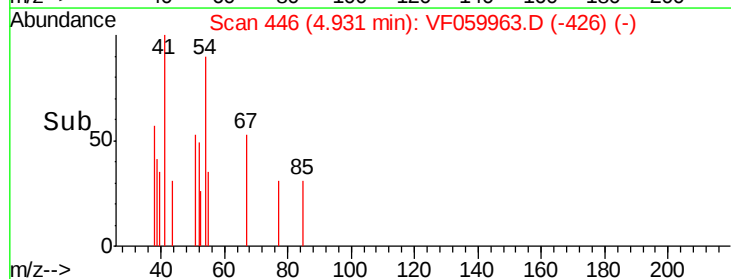
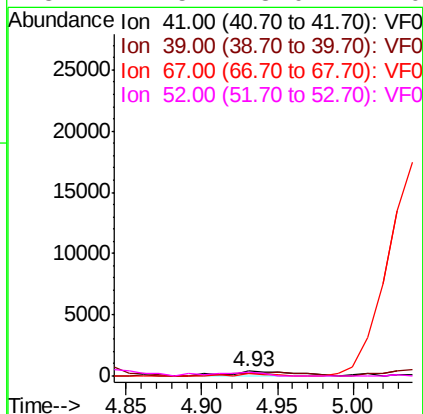
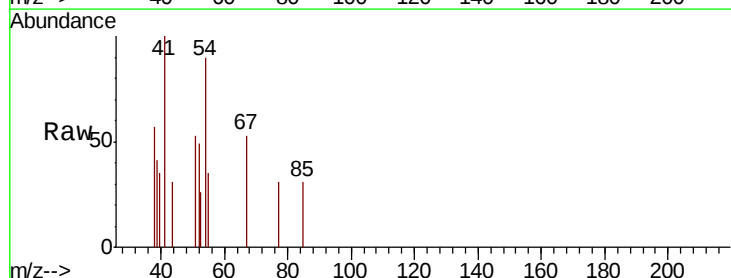
Ion Ratio Lower Upper

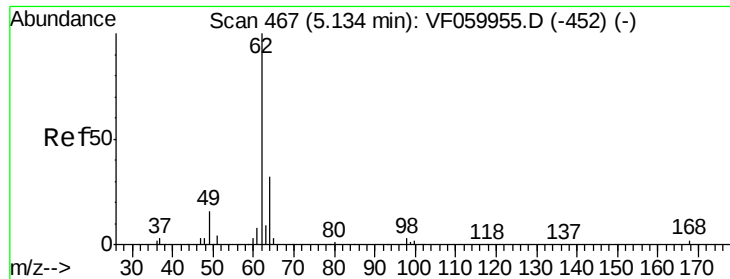
41 100

39 76.9 75.7 113.5

67 52.5 36.1 54.1

52 74.5 48.0 72.0#

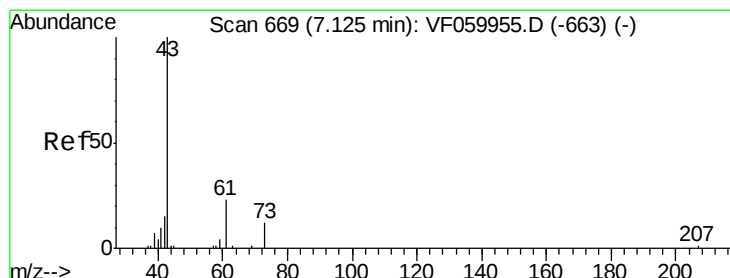
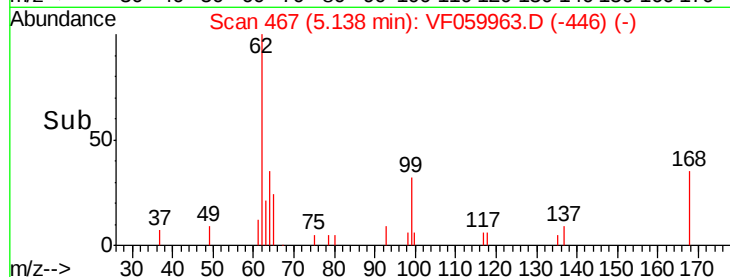
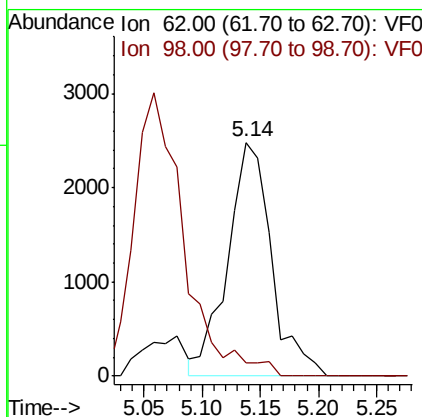
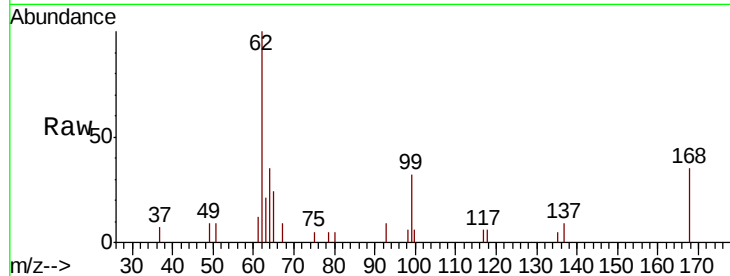




#42
 1,2-Dichloroethane
 Concen: 2.33 ug/l
 RT: 5.14 min Scan# 467
 Delta R.T. 0.00 min
 Lab File: VF059963.D
 Acq: 15 Aug 2018 00:42

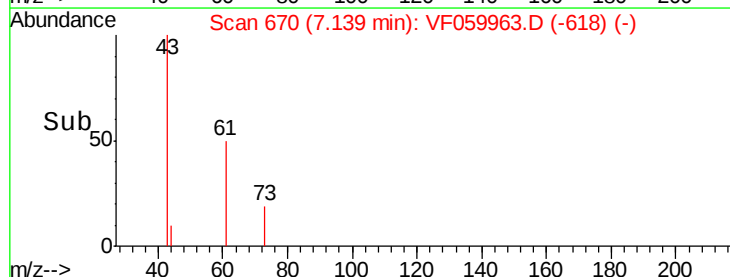
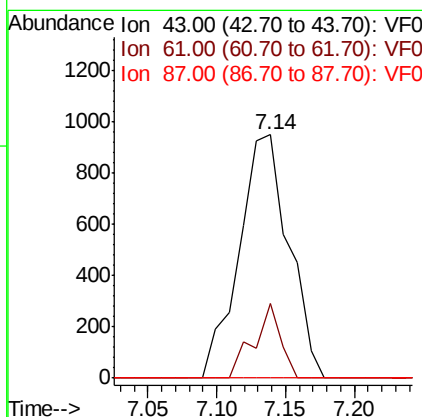
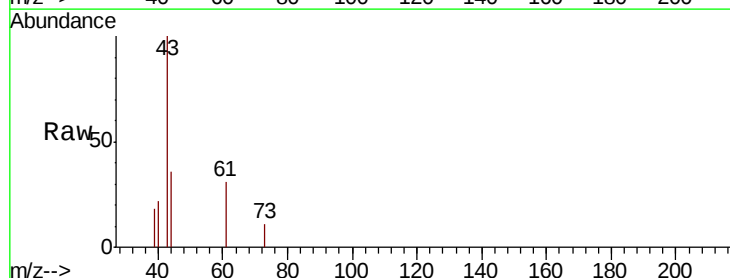
Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

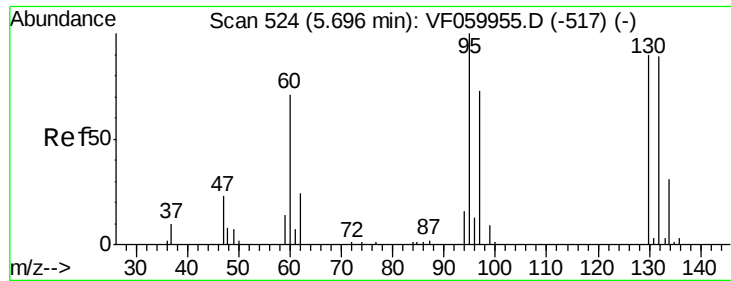
Tot Ion: 62 Resp: 6461
 Ion Ratio Lower Upper
 62 100
 98 5.9 0.0 5.0#



#43
 Isopropyl Acetate
 Concen: 2.48 ug/l
 RT: 7.14 min Scan# 670
 Delta R.T. 0.01 min
 Lab File: VF059963.D
 Acq: 15 Aug 2018 00:42

Tgt Ion: 43 Resp: 2388
 Ion Ratio Lower Upper
 43 100
 61 30.6 18.6 27.8#
 87 0.0 0.0 0.0

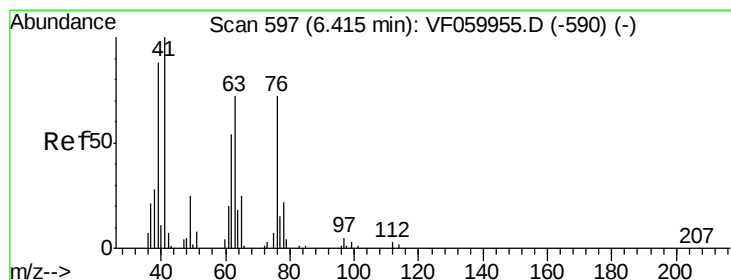
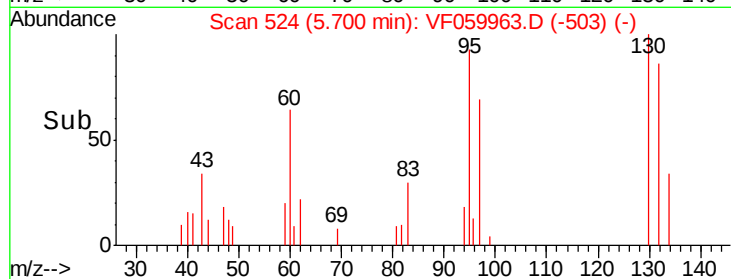
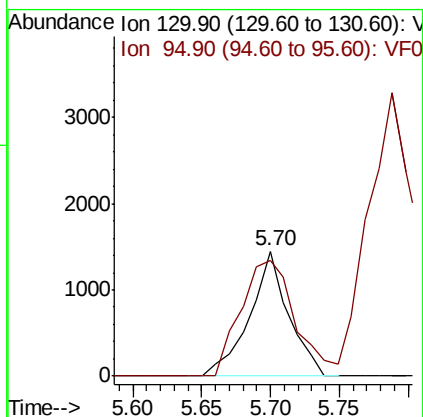
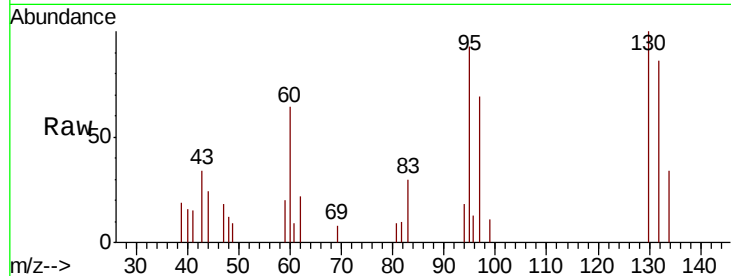




#44
 Trichloroethene
 Concen: 2.11 ug/l
 RT: 5.70 min Scan# 524
 Delta R.T. 0.00 min
 Lab File: VF059963.D
 Acq: 15 Aug 2018 00:42

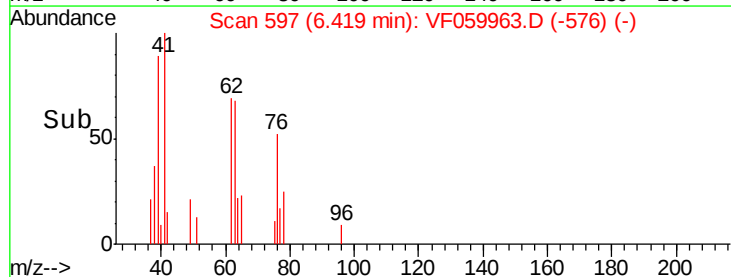
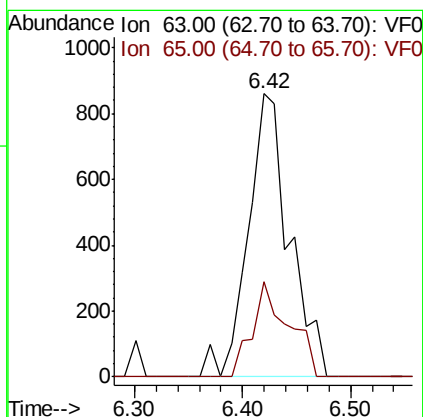
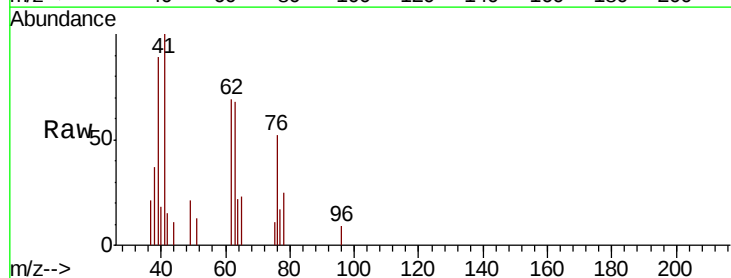
Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

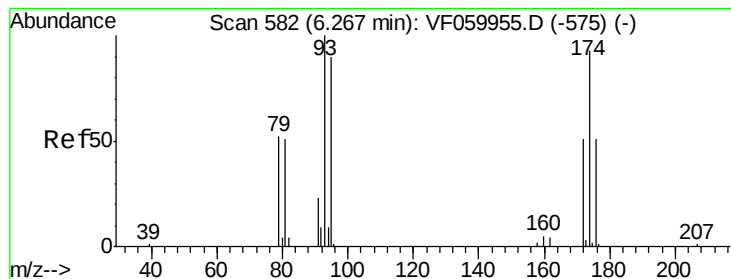
Tot Ion:130 Resp: 2843
 Ion Ratio Lower Upper
 130 100
 95 93.2 0.0 222.0



#45
 1,2-Dichloropropane
 Concen: 2.48 ug/l
 RT: 6.42 min Scan# 597
 Delta R.T. 0.00 min
 Lab File: VF059963.D
 Acq: 15 Aug 2018 00:42

Tgt Ion: 63 Resp: 2293
 Ion Ratio Lower Upper
 63 100
 65 33.8 27.8 41.6





#46

Dibromomethane

Concen: 1.99 ug/l

RT: 6.28 min Scan# 583

Delta R.T. 0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

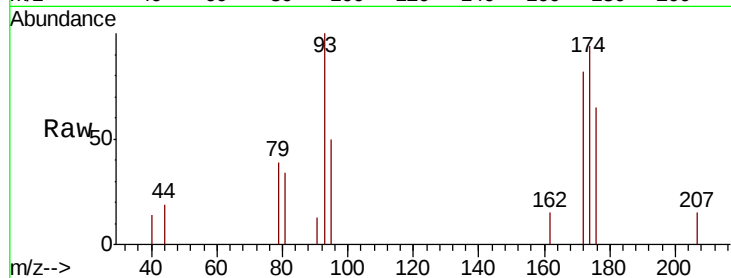
Tot Ion: 93 Resp: 1819

Ion Ratio Lower Upper

93 100

95 49.9 72.4 108.6#

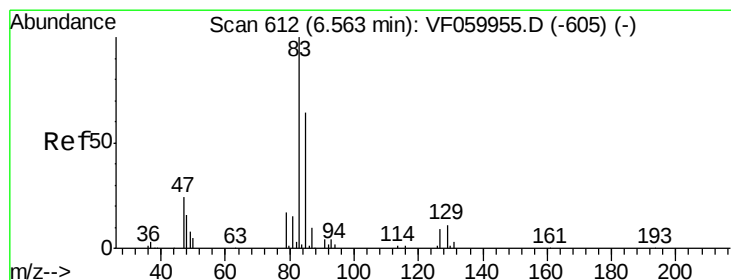
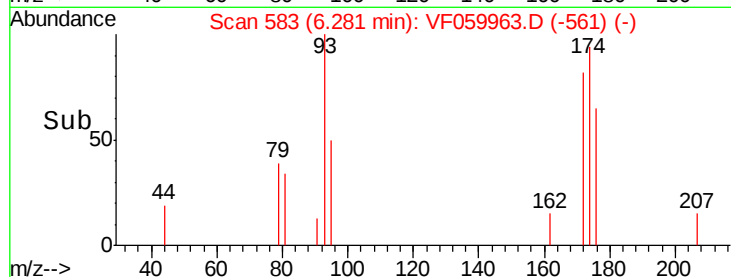
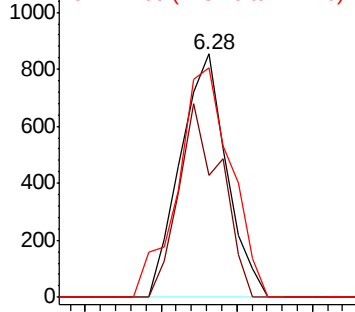
174 94.4 75.9 113.9



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: 1.94 ug/l

RT: 6.58 min Scan# 613

Delta R.T. 0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

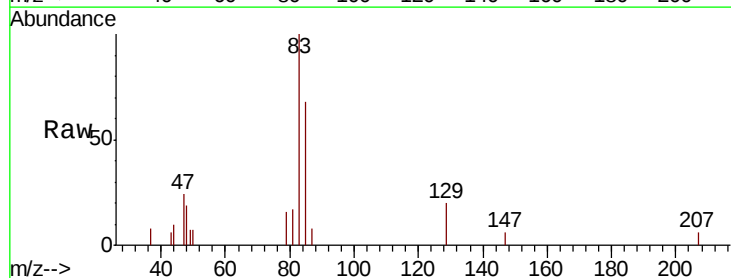
Tgt Ion: 83 Resp: 5113

Ion Ratio Lower Upper

83 100

85 68.1 51.5 77.3

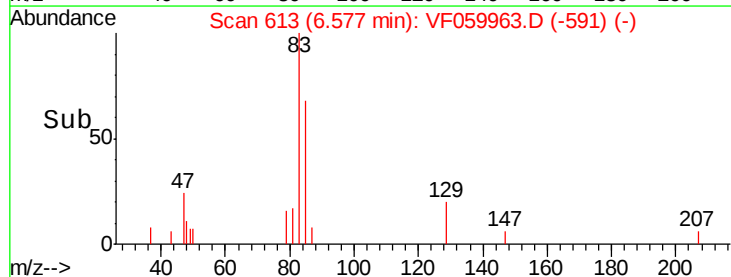
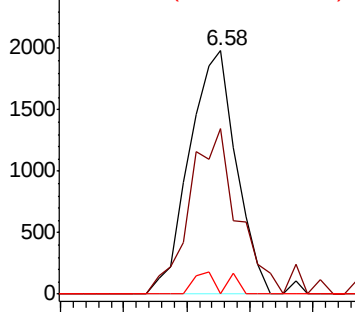
127 0.0 7.5 11.3#

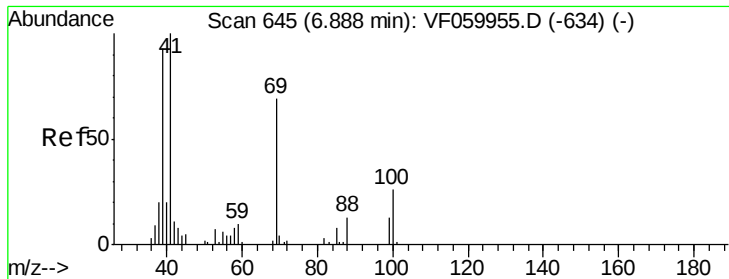


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V

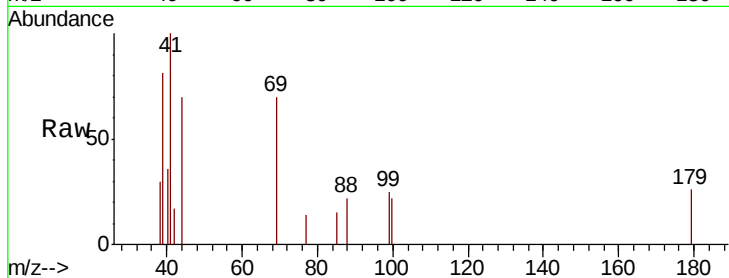




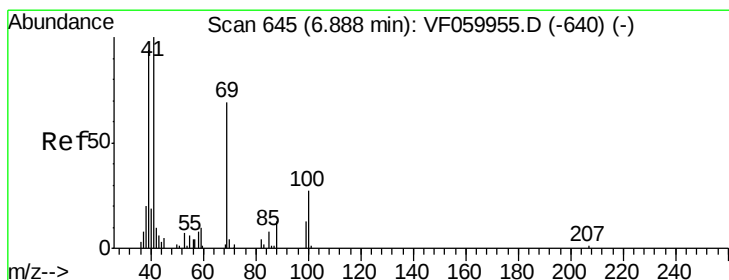
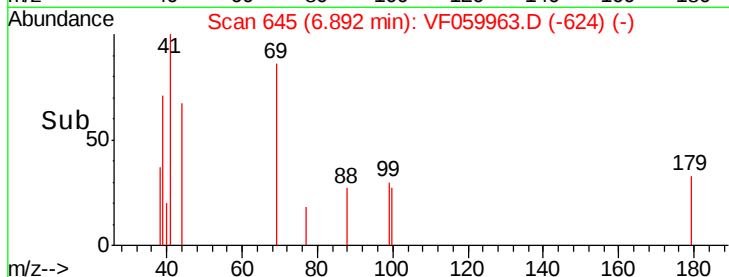
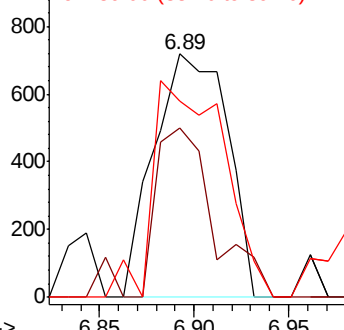
#48
Methvl methacrylate
Concen: 2.69 ug/l
RT: 6.89 min Scan# 645
Delta R.T. 0.00 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 41 Resp: 1930
Ion Ratio Lower Upper
41 100
69 69.8 54.8 82.2
39 80.8 75.1 112.7

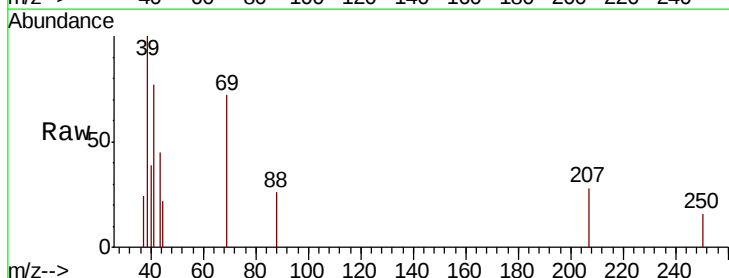


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0

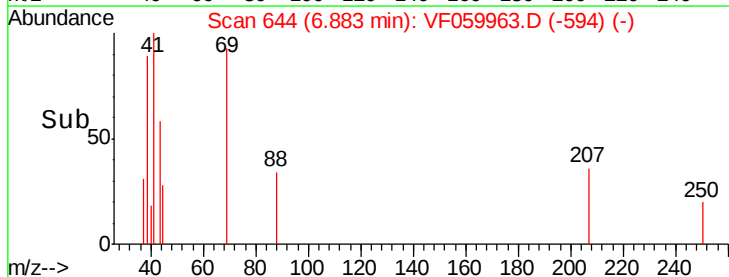
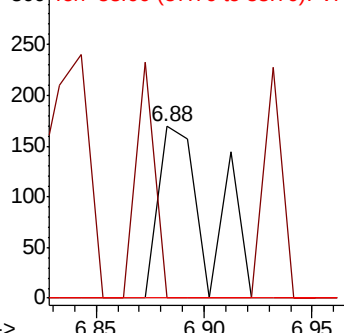


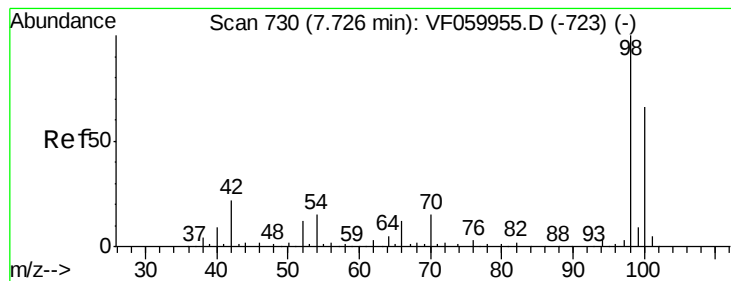
#49
1,4-Dioxane
Concen: 51.20 ug/l
RT: 6.88 min Scan# 644
Delta R.T. -0.01 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Tgt Ion: 88 Resp: 278
Ion Ratio Lower Upper
88 100
43 0.0 47.9 71.9#
58 0.0 52.0 78.0#



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: 49.70 ug/l

RT: 7.73 min Scan# 730

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

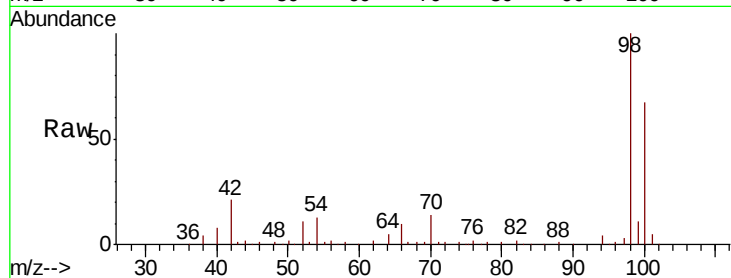
LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 98 Resp: 204304

Ion Ratio Lower Upper

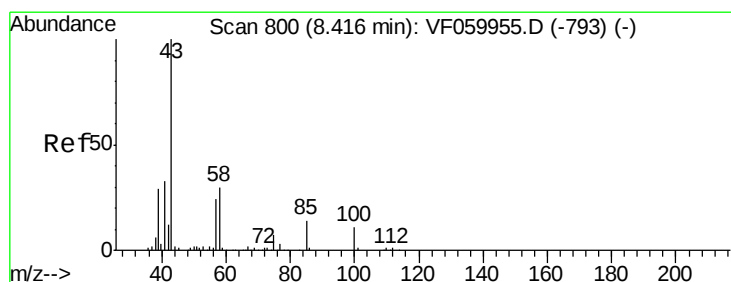
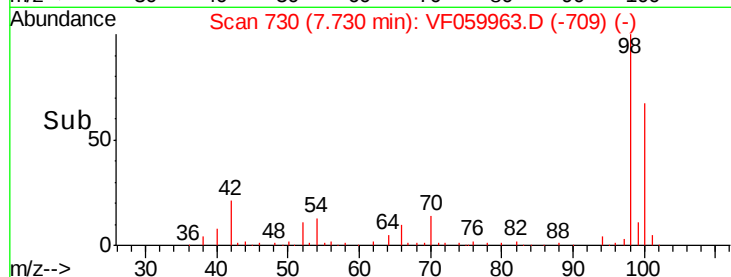
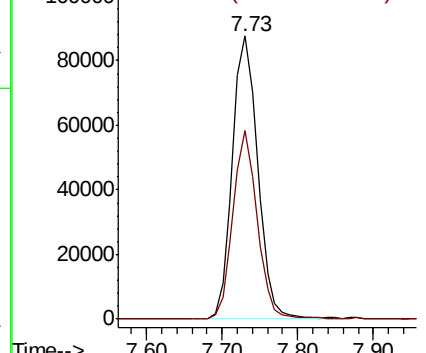
98 100

100 66.6 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF



#51

4-Methyl-2-Pentanone

Concen: 11.87 ug/l

RT: 8.42 min Scan# 800

Delta R.T. 0.00 min

Lab File: VF059963.D

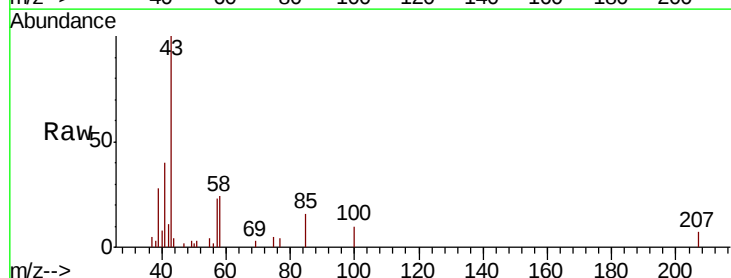
Acq: 15 Aug 2018 00:42

Tgt Ion: 43 Resp: 11083

Ion Ratio Lower Upper

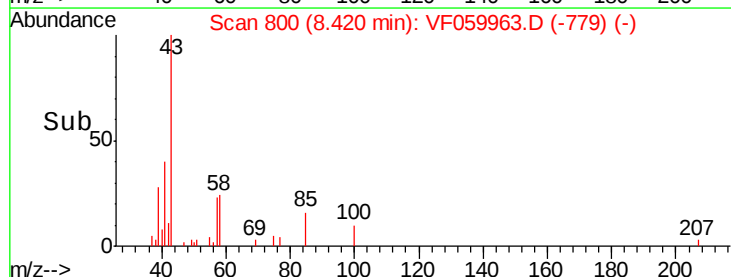
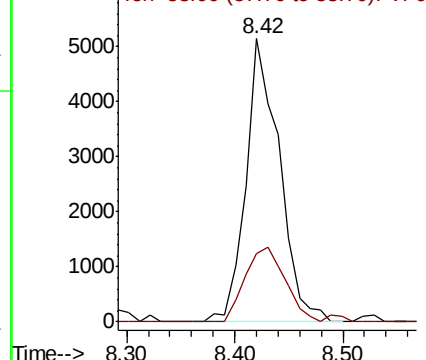
43 100

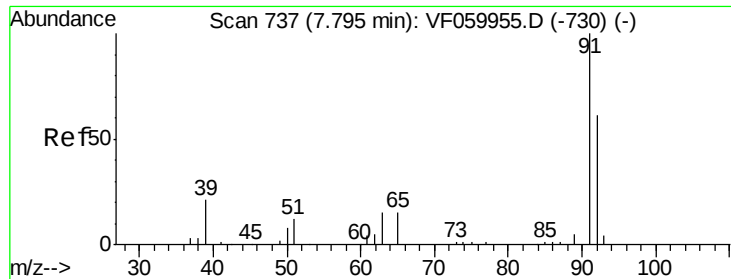
58 24.2 24.2 36.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#52

Toluene

Concen: 2.56 ug/l

RT: 7.80 min Scan# 737

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

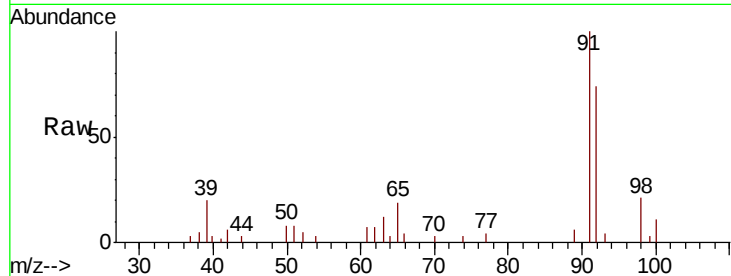
LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 92 Resp: 6620

Ion Ratio Lower Upper

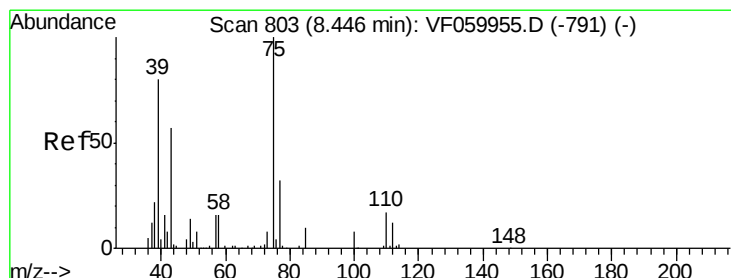
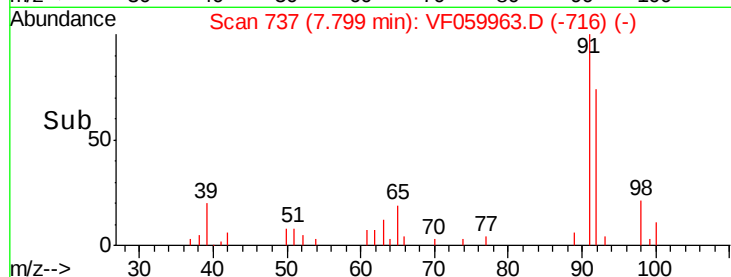
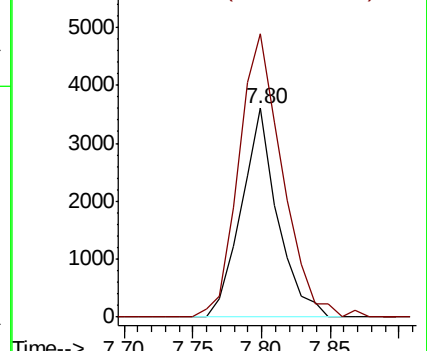
92 100

91 135.4 131.2 196.8



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: 2.24 ug/l

RT: 8.45 min Scan# 803

Delta R.T. 0.00 min

Lab File: VF059963.D

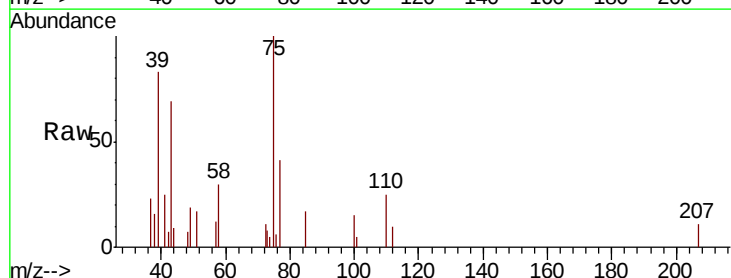
Acq: 15 Aug 2018 00:42

Tgt Ion: 75 Resp: 4826

Ion Ratio Lower Upper

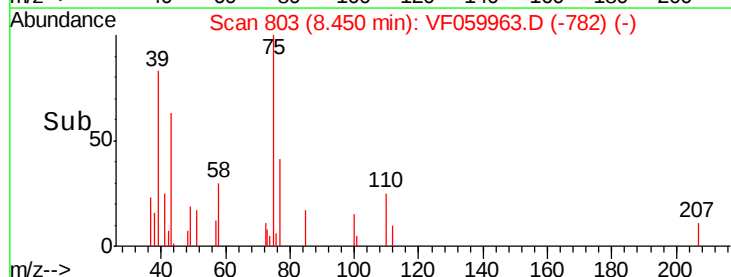
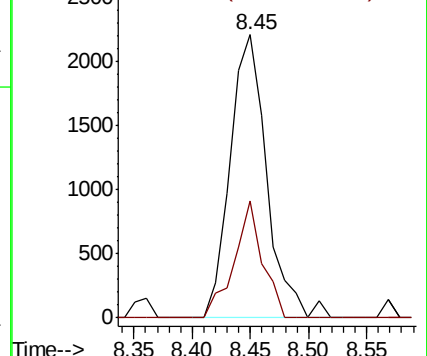
75 100

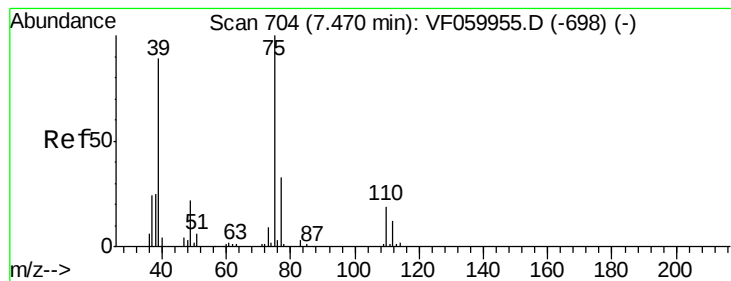
77 41.4 25.8 38.6#



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: 2.12 ug/l

RT: 7.48 min Scan# 705

Delta R.T. 0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

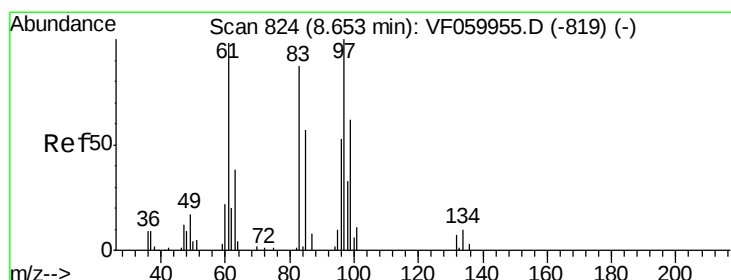
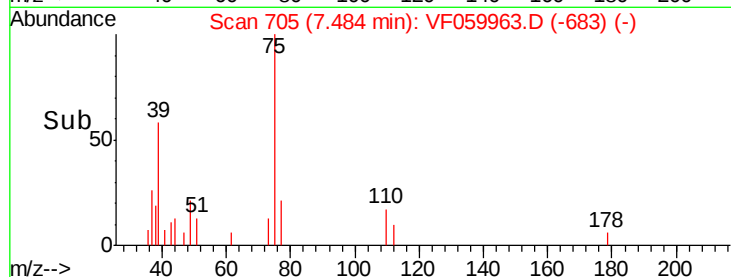
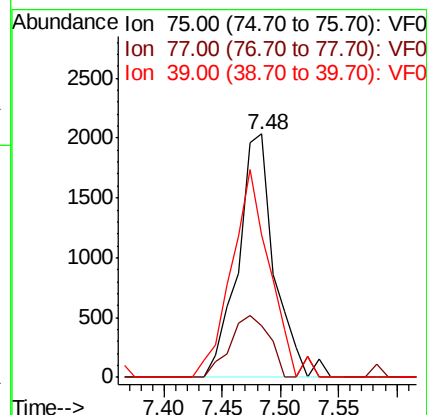
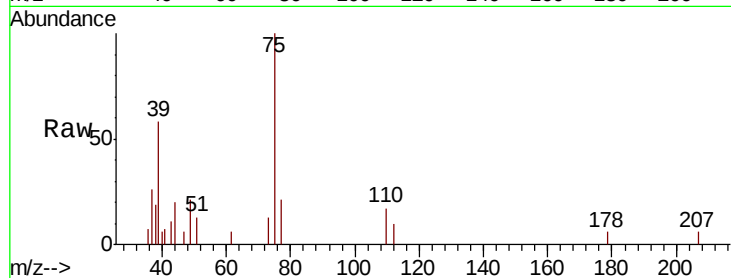
Tot Ion: 75 Resp: 4400

Ion Ratio Lower Upper

75 100

77 21.1 26.1 39.1#

39 58.4 71.6 107.4#



#55

1,1,2-Trichloroethane

Concen: 3.07 ug/l

RT: 8.66 min Scan# 824

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Tgt Ion: 97 Resp: 2722

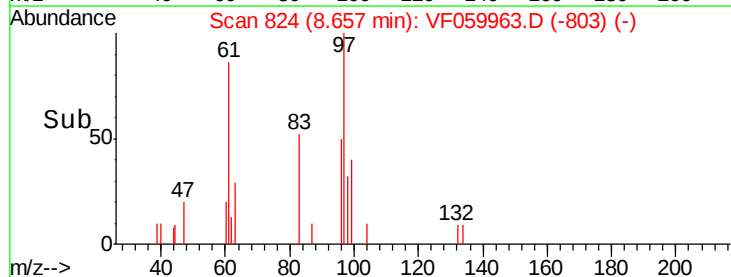
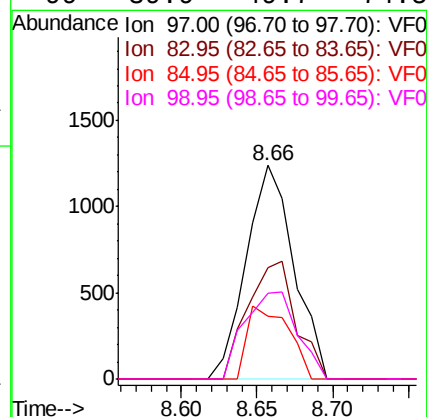
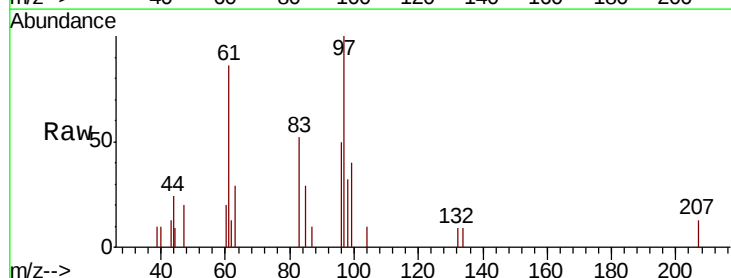
Ion Ratio Lower Upper

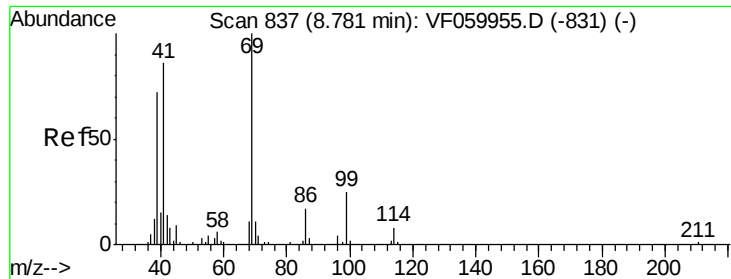
97 100

83 52.2 70.0 105.0#

85 29.1 45.2 67.8#

99 39.9 49.7 74.5#





#56

Ethyl methacrylate

Concen: 2.19 ug/l

RT: 8.79 min Scan# 837

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

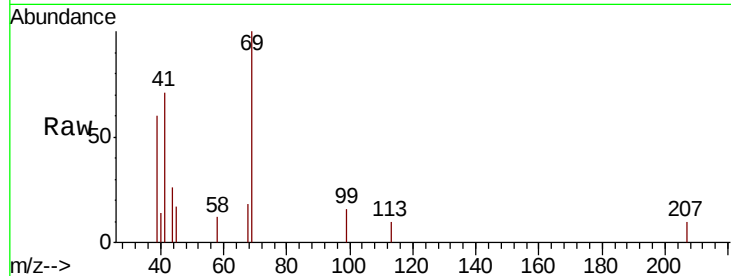
Tot Ion: 69 Resp: 2083

Ion Ratio Lower Upper

69 100

41 71.2 68.7 103.1

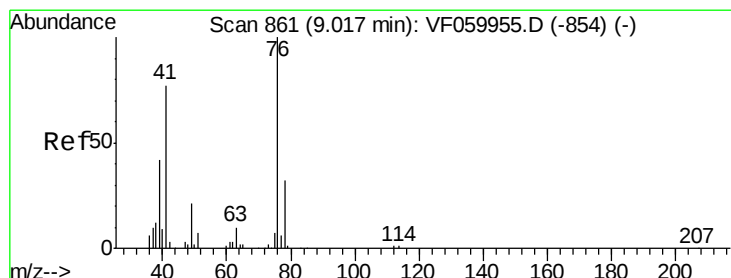
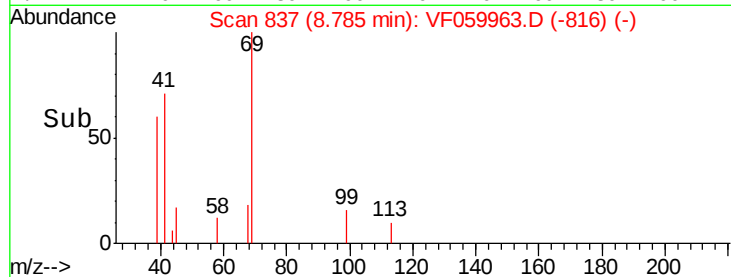
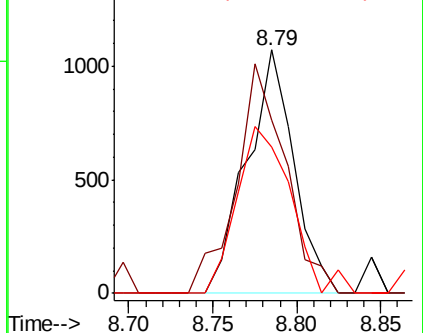
39 60.3 58.5 87.7



Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#57

1,3-Dichloropropane

Concen: 2.38 ug/l

RT: 9.03 min Scan# 862

Delta R.T. 0.01 min

Lab File: VF059963.D

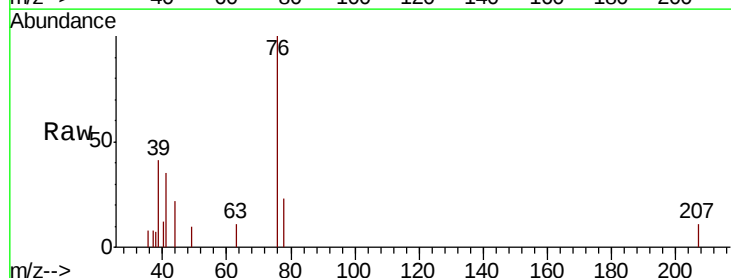
Acq: 15 Aug 2018 00:42

Tgt Ion: 76 Resp: 3887

Ion Ratio Lower Upper

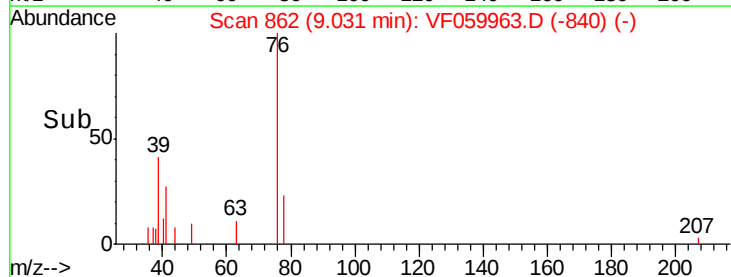
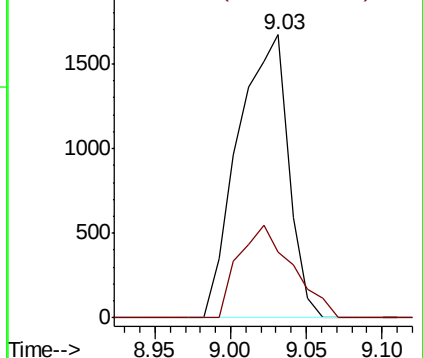
76 100

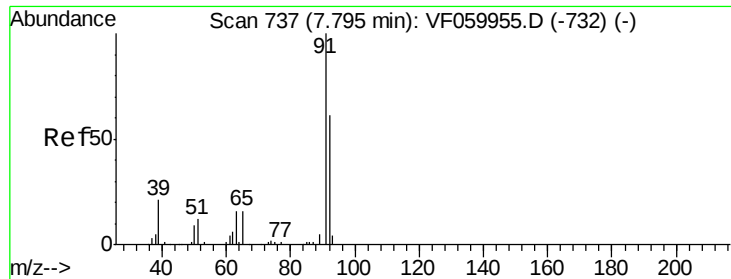
78 23.4 25.5 38.3#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

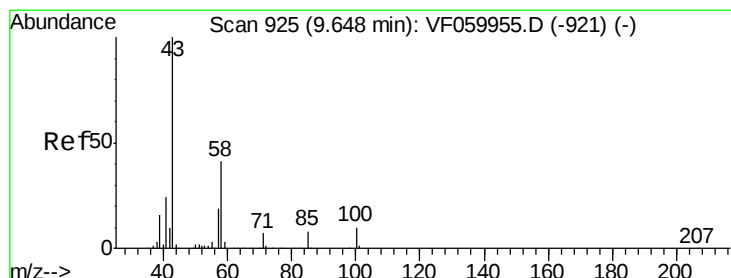
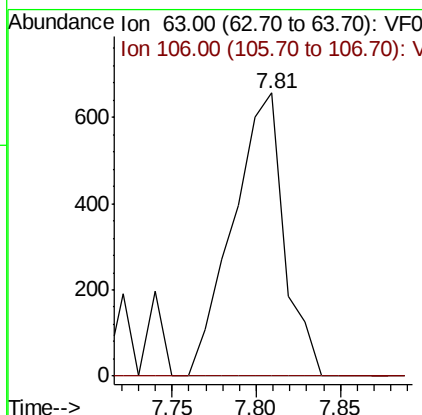
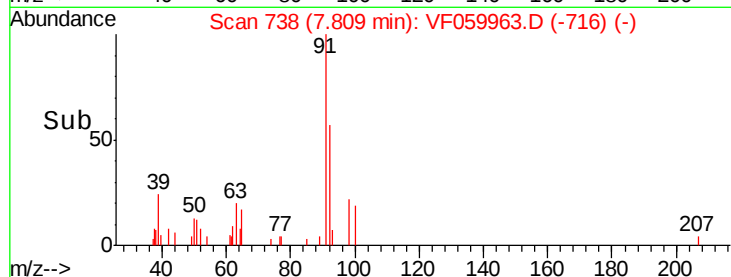
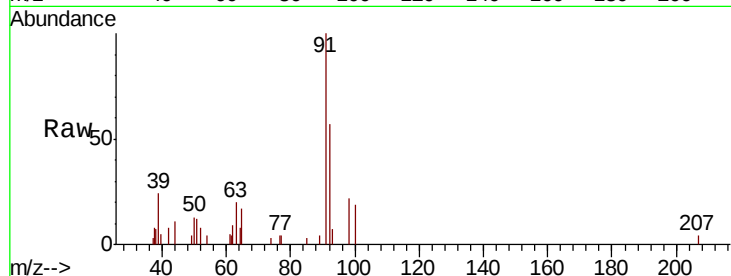




#58
 2-Chloroethyl Vinyl ether
 Concen: 10.83 ug/l
 RT: 7.81 min Scan# 738
 Delta R.T. 0.01 min
 Lab File: VF059963.D
 Acq: 15 Aug 2018 00:42

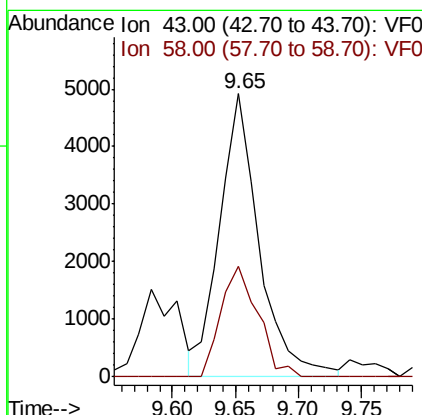
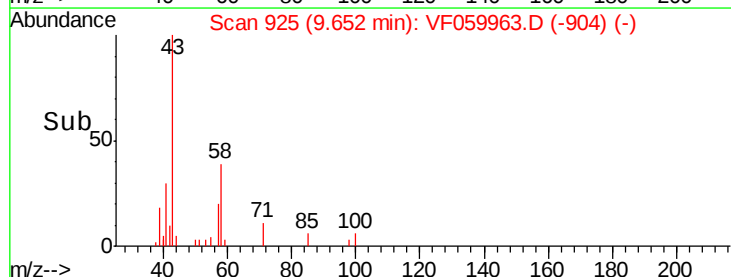
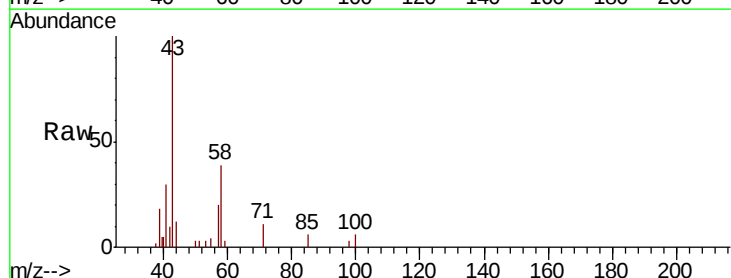
Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

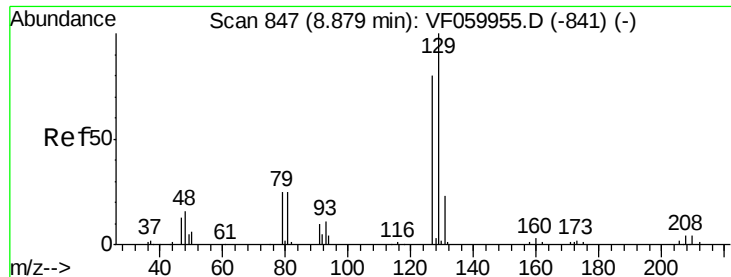
Tot Ion: 63 Resp: 1386
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0



#59
 2-Hexanone
 Concen: 15.65 ug/l
 RT: 9.65 min Scan# 925
 Delta R.T. 0.00 min
 Lab File: VF059963.D
 Acq: 15 Aug 2018 00:42

Tgt Ion: 43 Resp: 10661
 Ion Ratio Lower Upper
 43 100
 58 39.0 19.4 58.2





#60

Dibromochloromethane

Concen: 2.18 ug/l

RT: 8.88 min Scan# 847

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

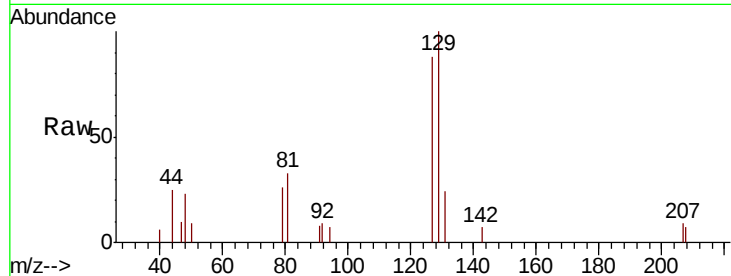
LOD-MDL-SOIL-01-QT3-2018

Tot Ion:129 Resp: 3817

Ion Ratio Lower Upper

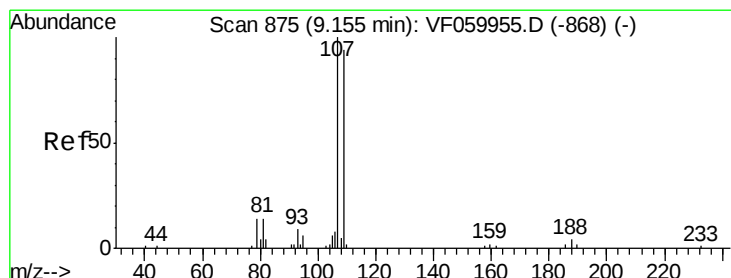
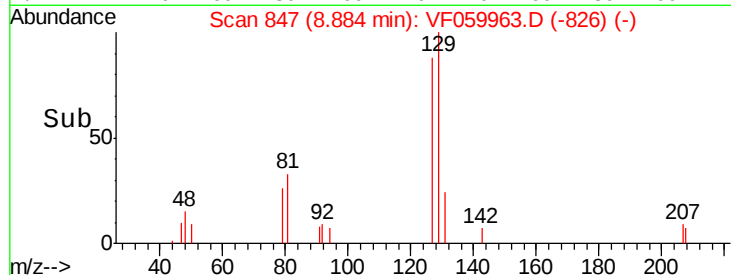
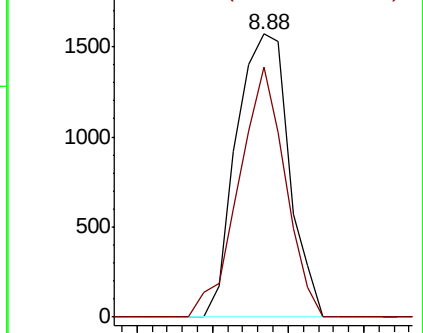
129 100

127 88.2 40.0 119.9



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#61

1,2-Dibromoethane

Concen: 2.26 ug/l

RT: 9.16 min Scan# 875

Delta R.T. 0.00 min

Lab File: VF059963.D

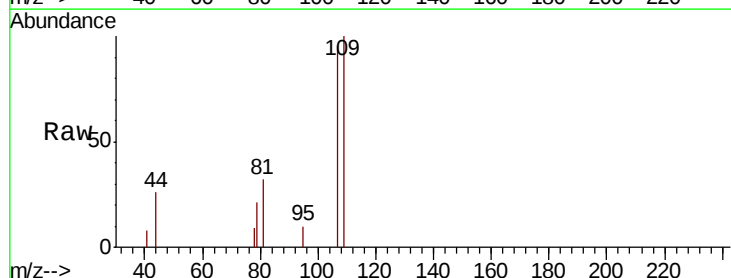
Acq: 15 Aug 2018 00:42

Tgt Ion:107 Resp: 2495

Ion Ratio Lower Upper

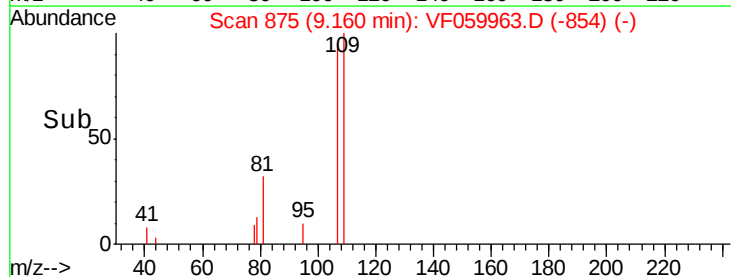
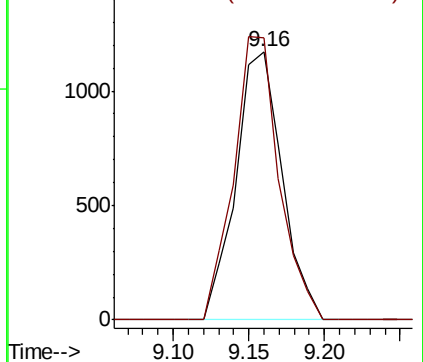
107 100

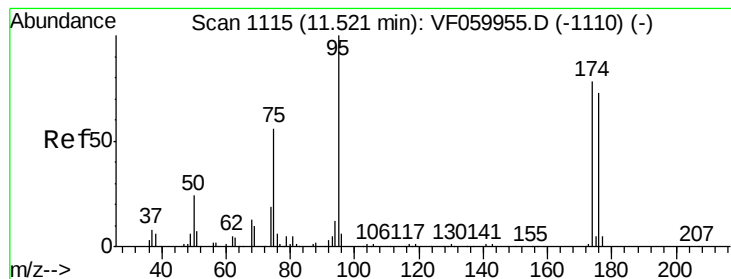
109 105.1 75.0 112.6



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#62

4-Bromofluorobenzene

Concen: 49.93 ug/l

RT: 11.53 min Scan# 1115

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

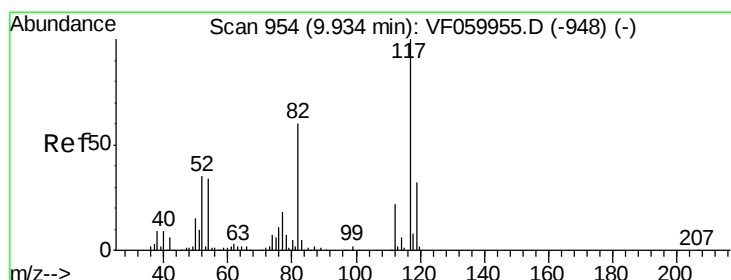
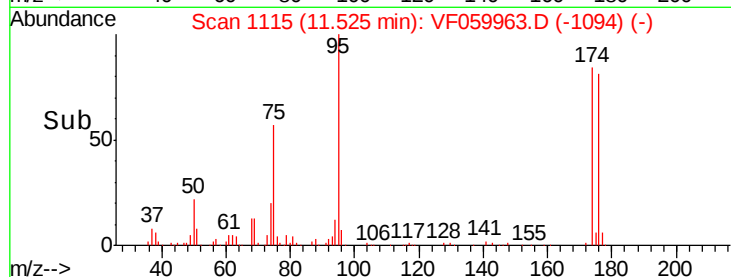
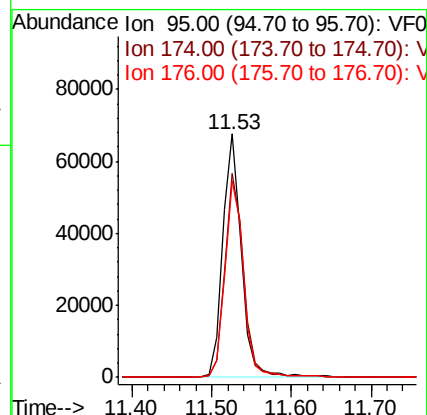
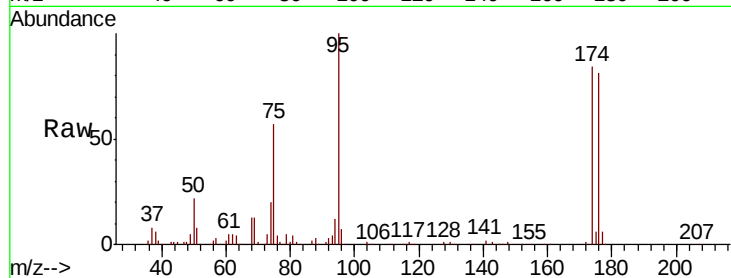
Tot Ion: 95 Resp: 112730

Ion Ratio Lower Upper

95 100

174 83.5 0.0 156.4

176 80.6 0.0 146.8



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.94 min Scan# 954

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

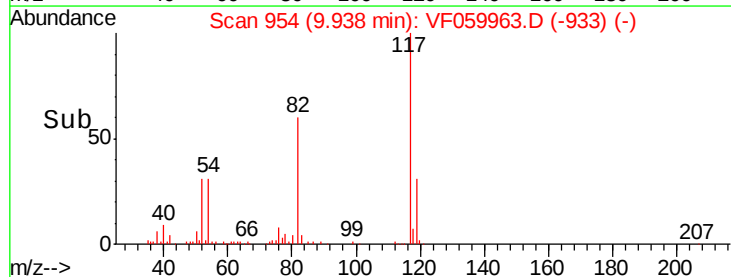
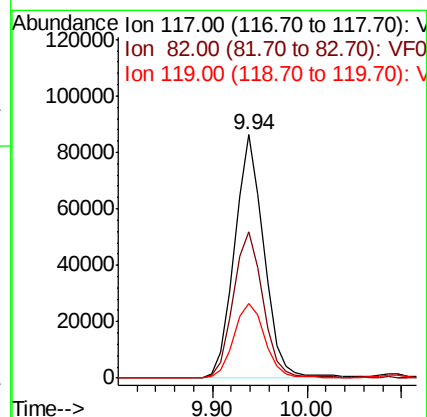
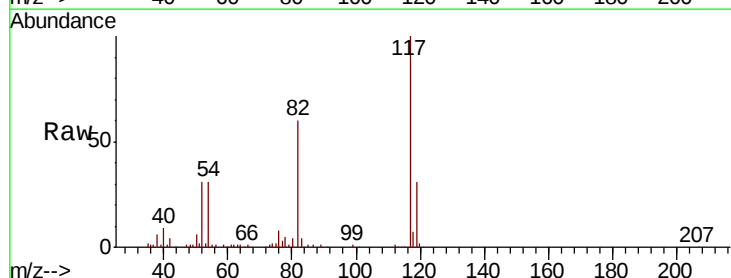
Tgt Ion: 117 Resp: 185158

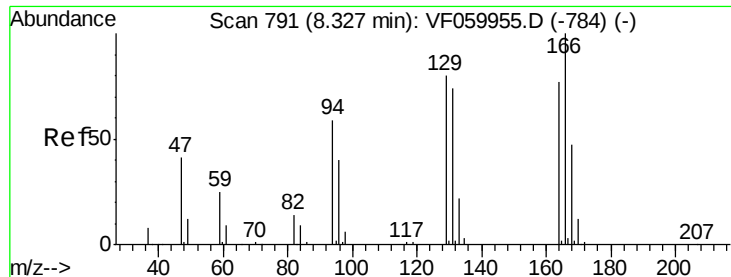
Ion Ratio Lower Upper

117 100

82 59.9 48.3 72.5

119 30.7 25.7 38.5

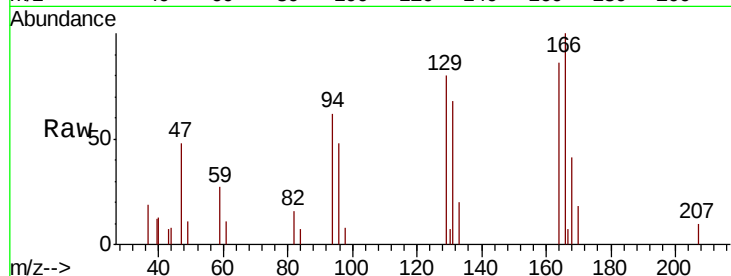




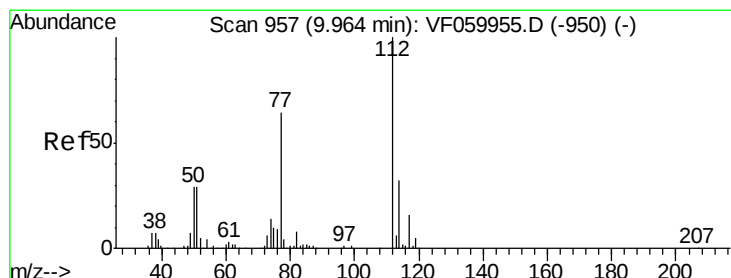
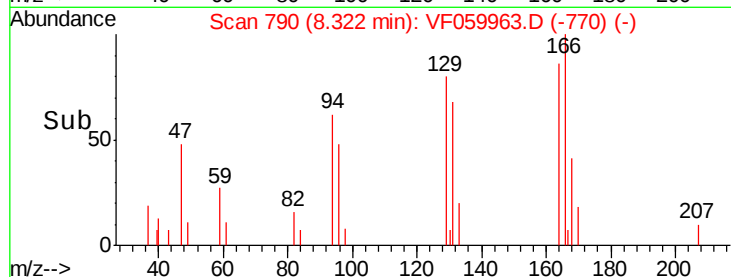
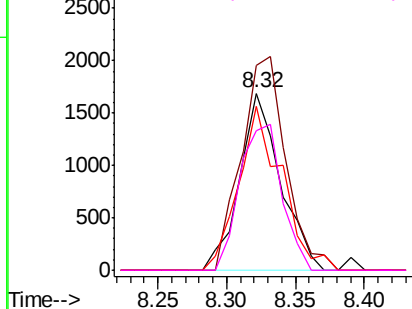
#64
Tetrachloroethene
Concen: 2.43 ug/l
RT: 8.32 min Scan# 790
Delta R.T. -0.01 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

Tot Ion:164 Resp: 3498
Ion Ratio Lower Upper
164 100
166 115.8 103.4 155.2
129 92.8 82.2 123.4
131 78.7 76.7 115.1

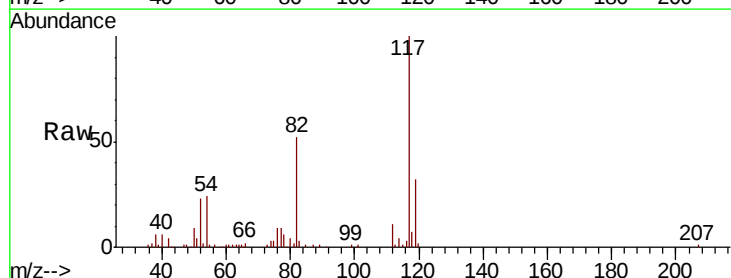


Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V

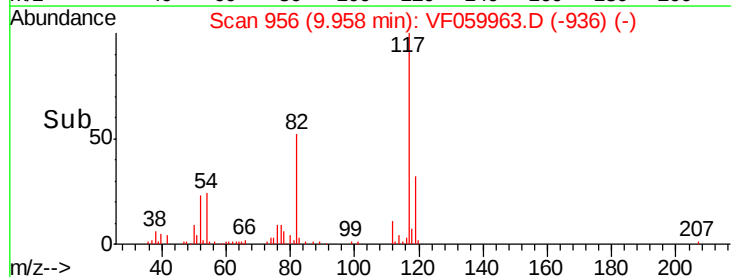
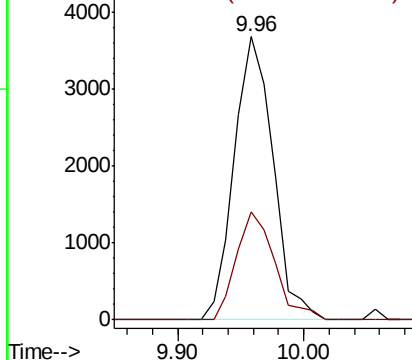


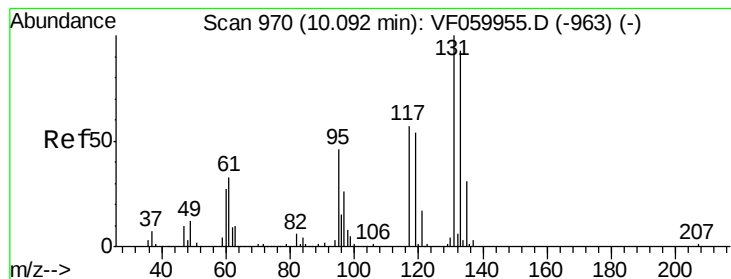
#65
Chlorobenzene
Concen: 2.21 ug/l
RT: 9.96 min Scan# 956
Delta R.T. -0.01 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Tgt Ion:112 Resp: 7889
Ion Ratio Lower Upper
112 100
114 38.2 25.8 38.6



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: 2.30 ug/l

RT: 10.09 min Scan# 969

Delta R.T. -0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

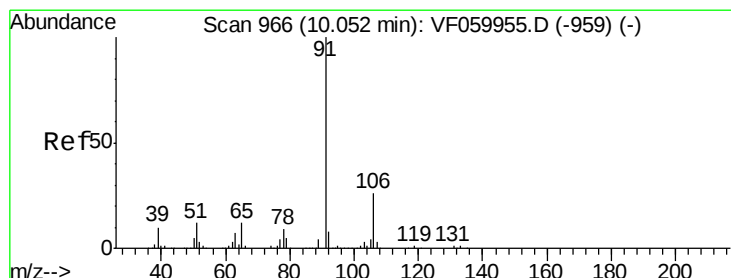
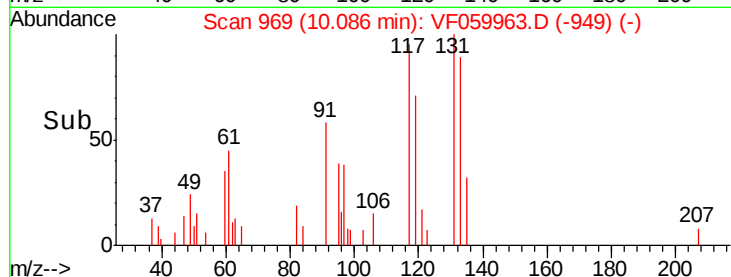
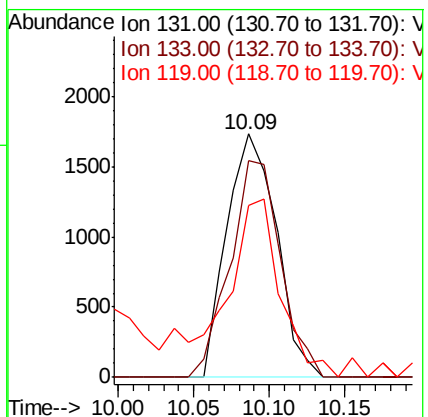
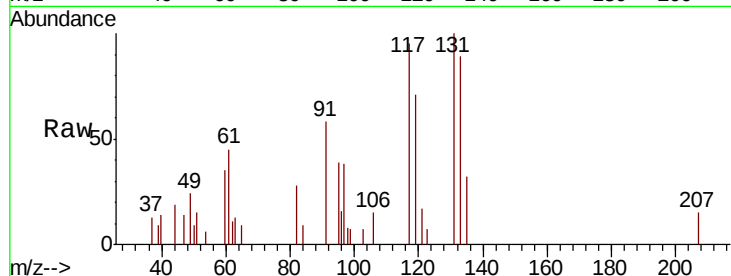
Tot Ion:131 Resp: 3969

Ion Ratio Lower Upper

131 100

133 88.9 46.4 139.1

119 70.7 27.2 81.5



#67

Ethyl Benzene

Concen: 2.31 ug/l

RT: 10.06 min Scan# 966

Delta R.T. 0.00 min

Lab File: VF059963.D

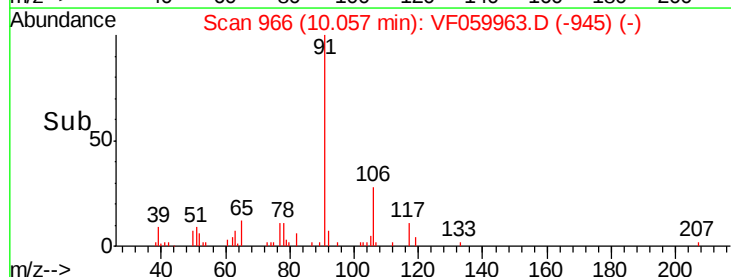
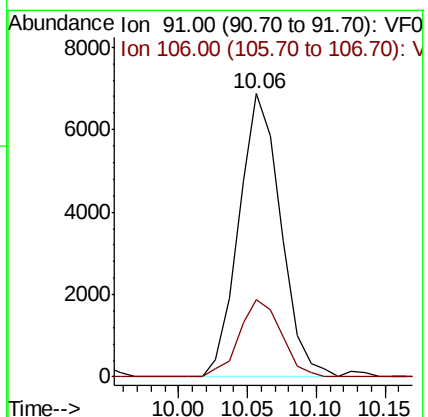
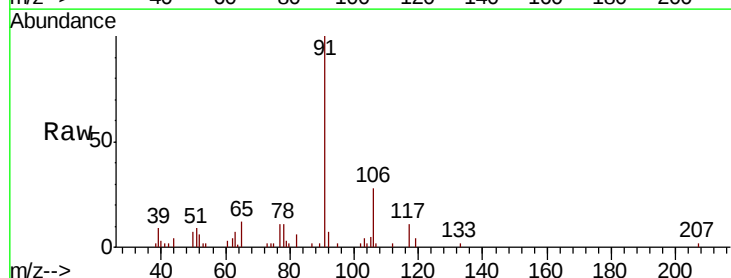
Acq: 15 Aug 2018 00:42

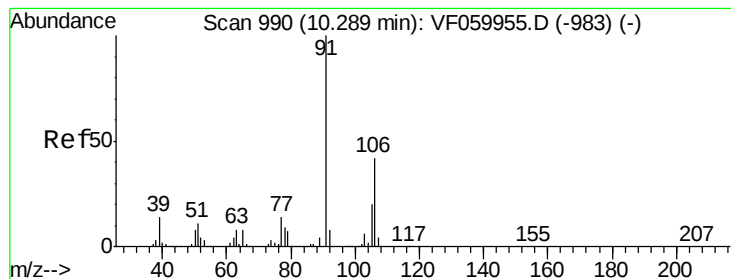
Tgt Ion: 91 Resp: 14569

Ion Ratio Lower Upper

91 100

106 27.5 20.7 31.1





#68

m/p-Xylenes

Concen: 4.43 ug/l

RT: 10.28 min Scan# 989

Delta R.T. -0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

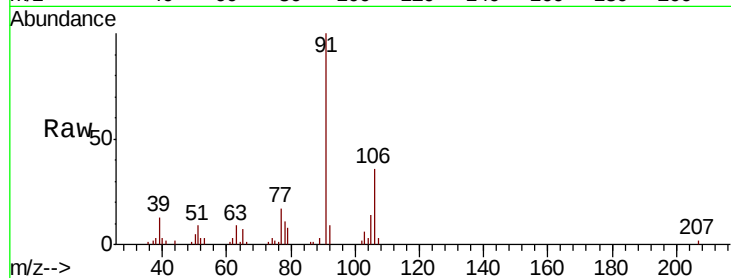
LOD-MDL-SOIL-01-QT3-2018

Tot Ion:106 Resp: 9408

Ion Ratio Lower Upper

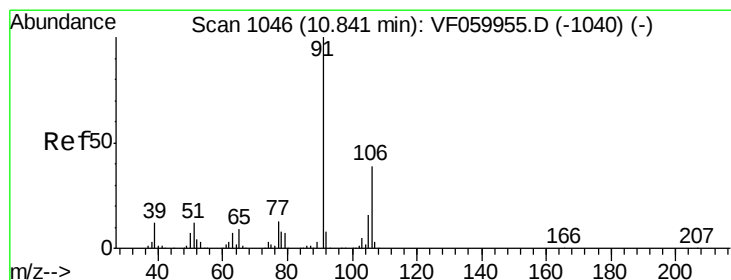
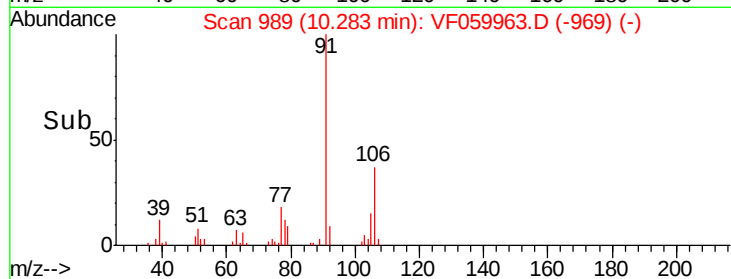
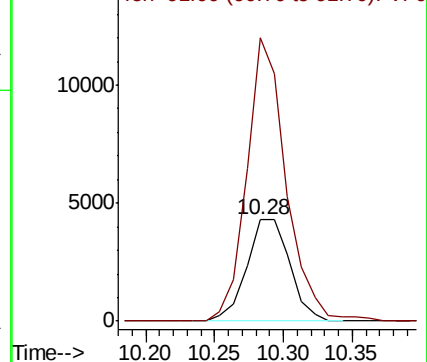
106 100

91 278.9 191.8 287.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



#69

o-Xylene

Concen: 2.38 ug/l

RT: 10.86 min Scan# 1047

Delta R.T. 0.01 min

Lab File: VF059963.D

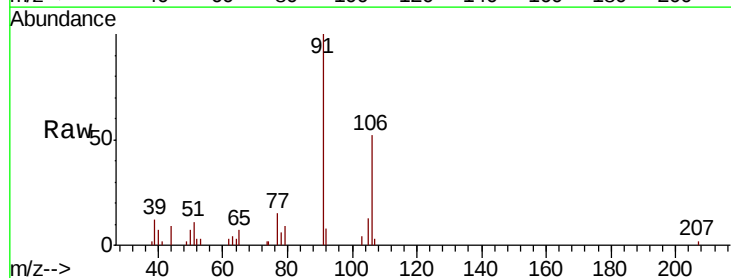
Acq: 15 Aug 2018 00:42

Tgt Ion:106 Resp: 5491

Ion Ratio Lower Upper

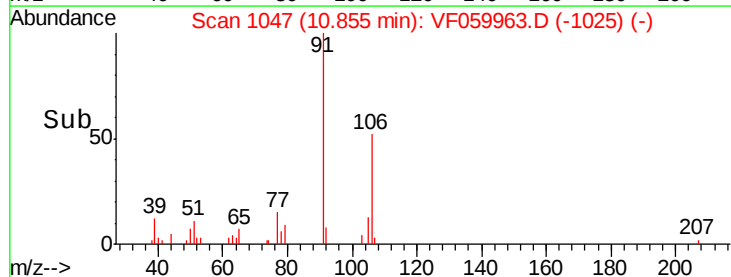
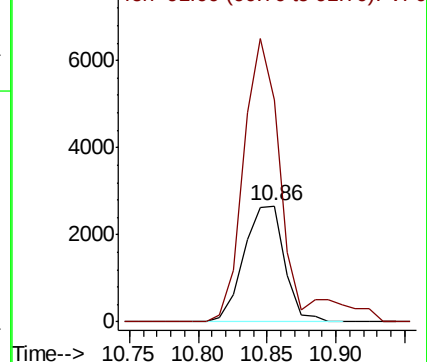
106 100

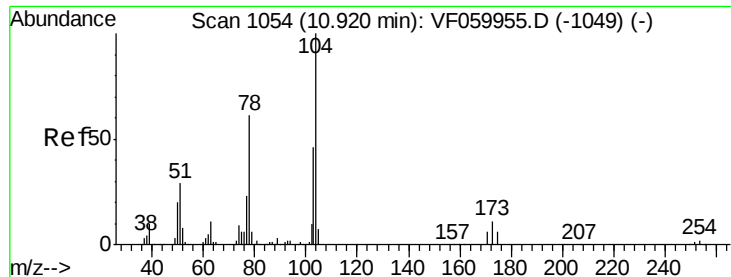
91 191.0 126.8 380.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

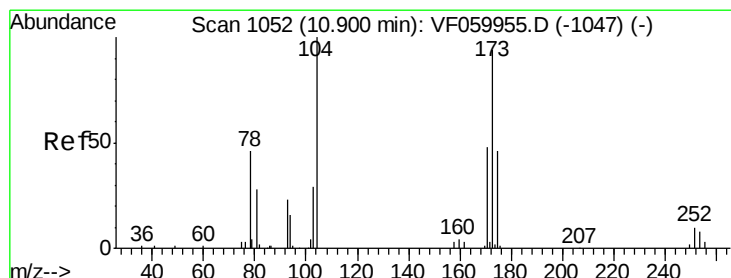
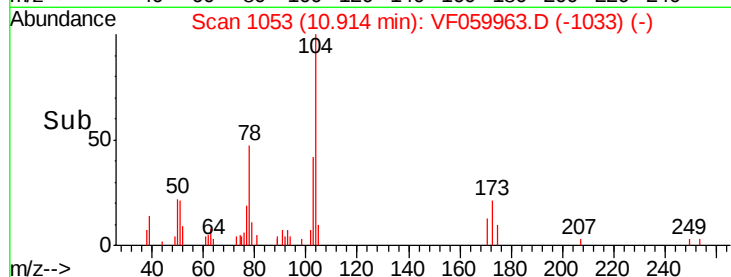
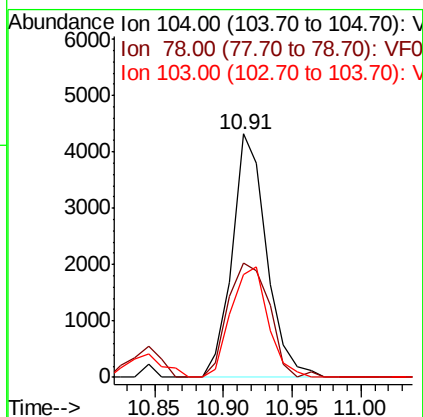
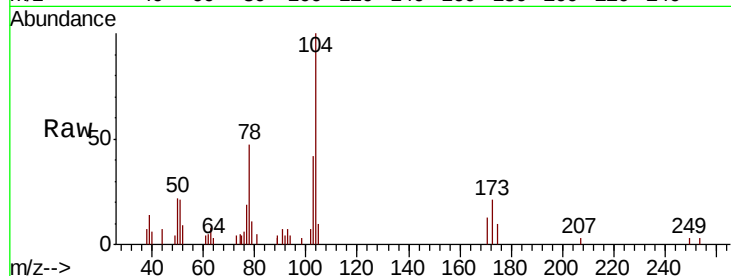




#70
Stvrene
Concen: 2.20 ug/l
RT: 10.91 min Scan# 1053
Delta R.T. -0.01 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

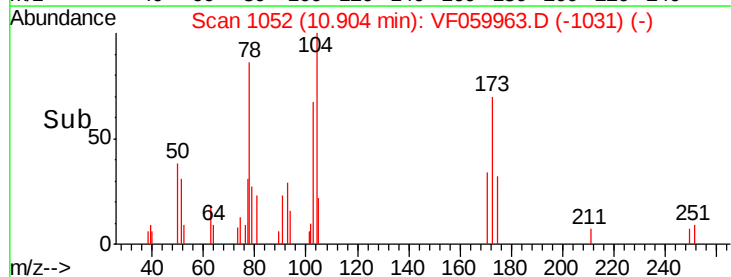
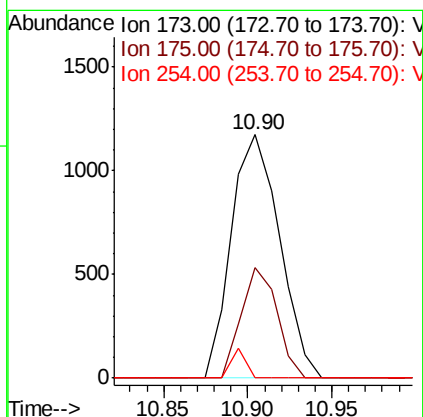
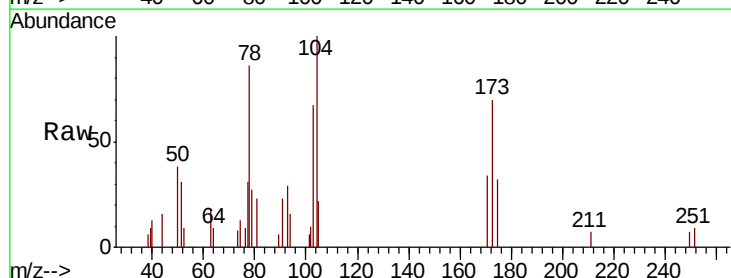
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

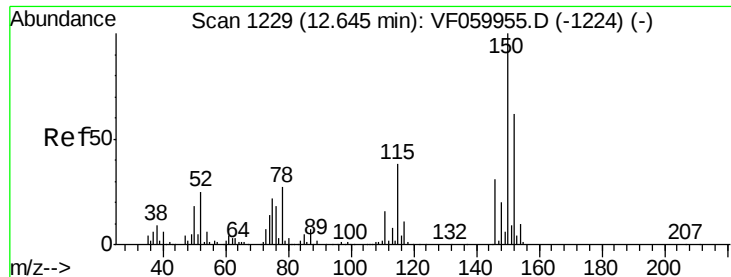
Tot Ion:104 Resp: 7525
Ion Ratio Lower Upper
104 100
78 47.0 49.2 73.8#
103 42.1 37.4 56.0



#71
Bromoform
Concen: 2.17 ug/l
RT: 10.90 min Scan# 1052
Delta R.T. 0.00 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Tgt Ion:173 Resp: 2336
Ion Ratio Lower Upper
173 100
175 45.7 24.6 73.6
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.65 min Scan# 1229

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

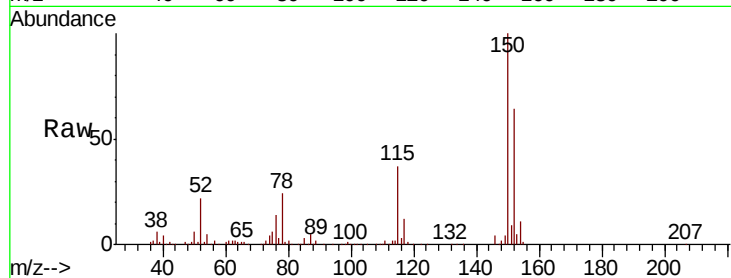
Tot Ion:152 Resp: 121124

Ion Ratio Lower Upper

152 100

115 57.3 31.4 94.0

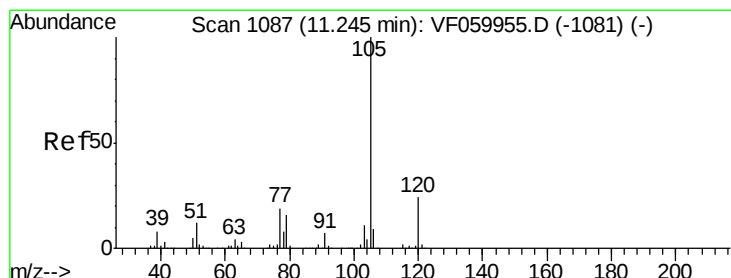
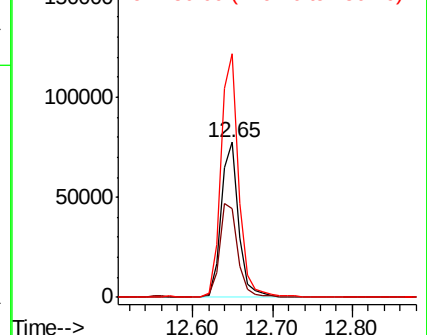
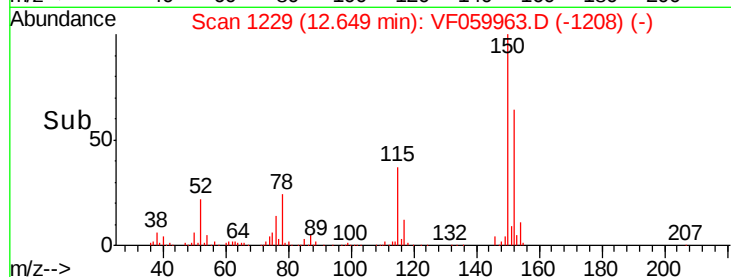
150 156.9 0.0 326.2



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#73

Isopropylbenzene

Concen: 1.99 ug/l

RT: 11.24 min Scan# 1086

Delta R.T. -0.01 min

Lab File: VF059963.D

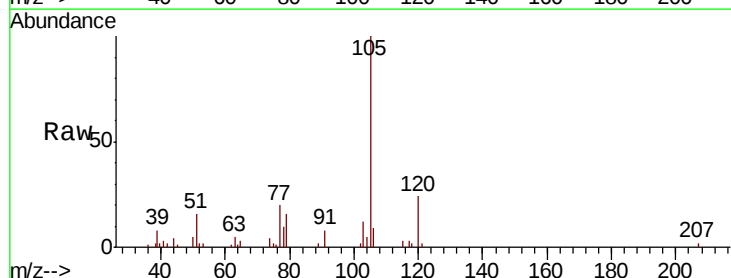
Acq: 15 Aug 2018 00:42

Tgt Ion:105 Resp: 15125

Ion Ratio Lower Upper

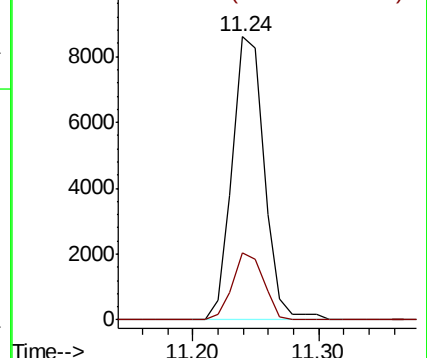
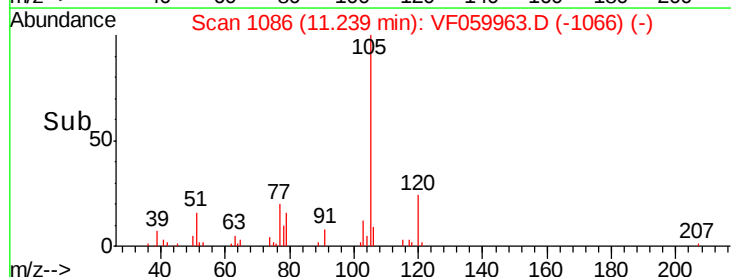
105 100

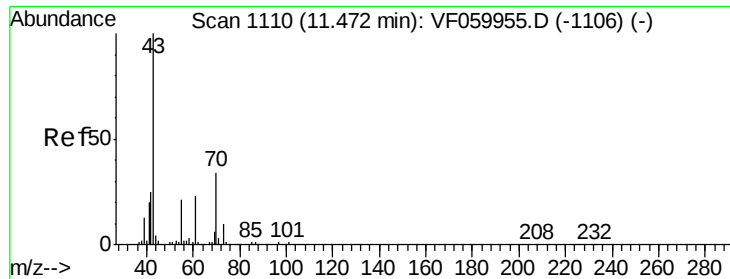
120 23.7 11.9 35.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amyl acetate

Concen: 2.37 ug/l

RT: 11.48 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

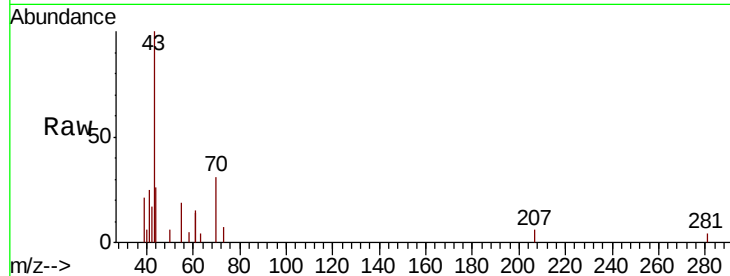
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 43 Resp: 3979

Ion Ratio Lower Upper

43	100		
70	30.7	26.9	40.3
55	19.2	16.9	25.3
61	29.3	18.1	27.1#

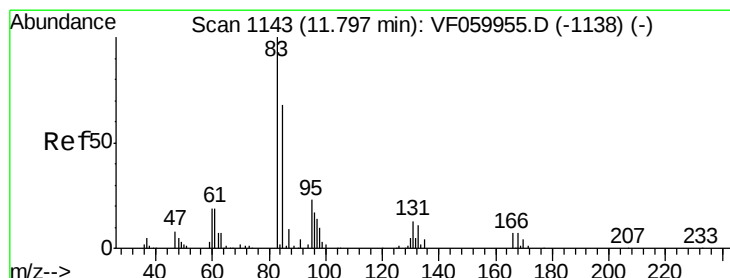
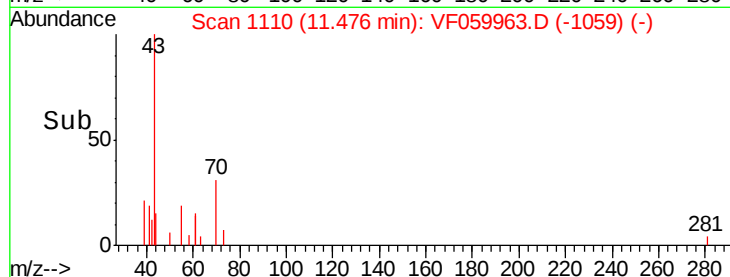
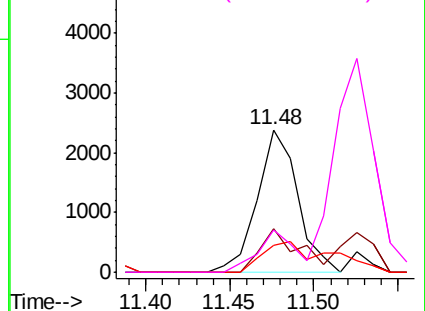


Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 2.38 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. 0.00 min

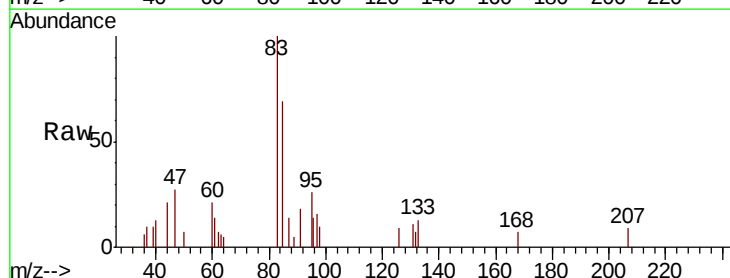
Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Tgt Ion: 83 Resp: 3046

Ion Ratio Lower Upper

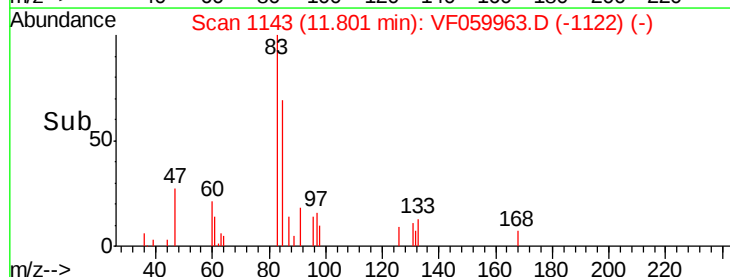
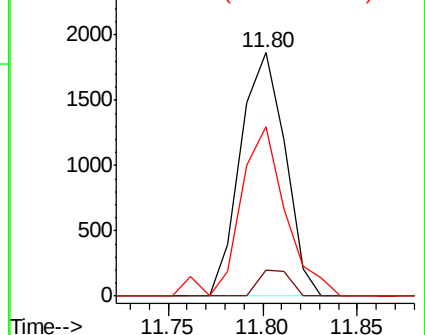
83	100		
131	10.7	6.3	19.1
85	69.3	33.9	101.7

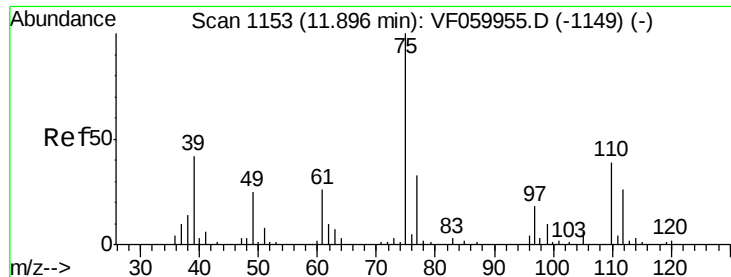


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0





#76

1,2,3-Trichloropropane

Concen: 2.56 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

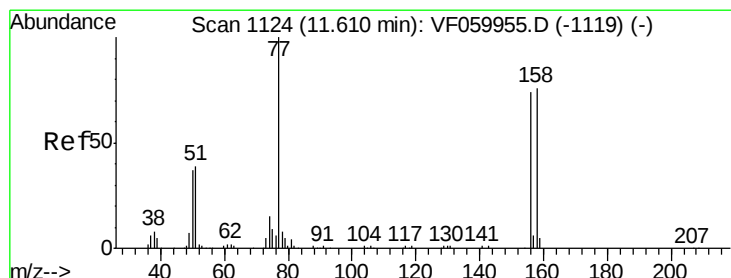
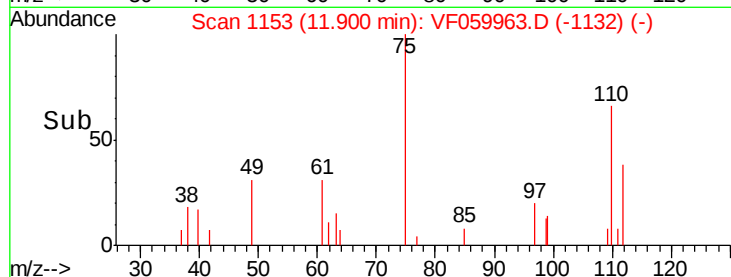
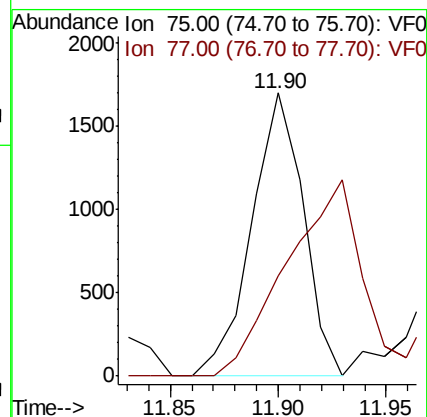
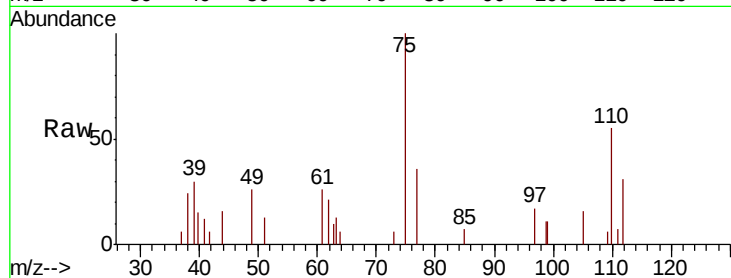
LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 75 Resp: 2823

Ion Ratio Lower Upper

75 100

77 35.5 16.6 49.7



#77

Bromobenzene

Concen: 2.39 ug/l

RT: 11.61 min Scan# 1124

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

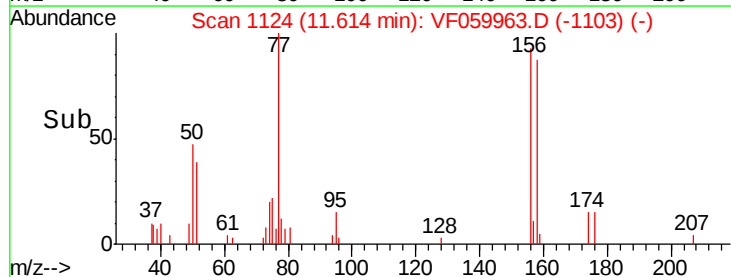
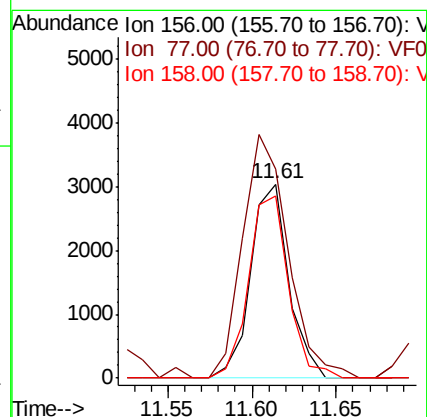
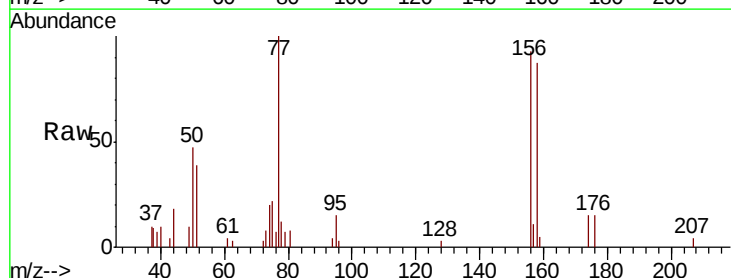
Tgt Ion: 156 Resp: 4773

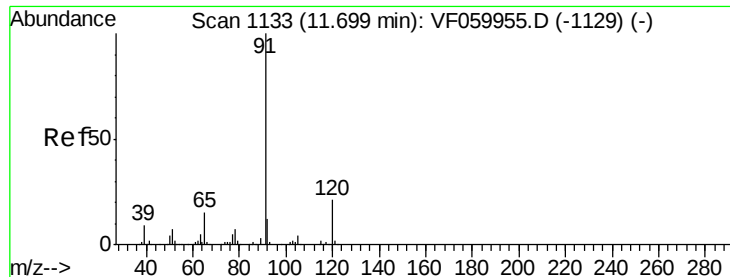
Ion Ratio Lower Upper

156 100

77 108.0 67.8 203.2

158 94.0 51.7 155.2





#78

n-propylbenzene

Concen: 2.40 ug/l

RT: 11.70 min Scan# 1133

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

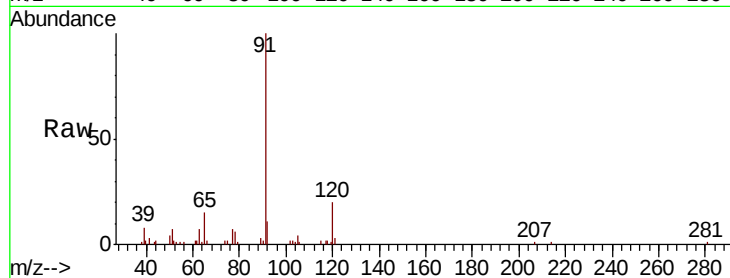
LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 91 Resp: 21455

Ion Ratio Lower Upper

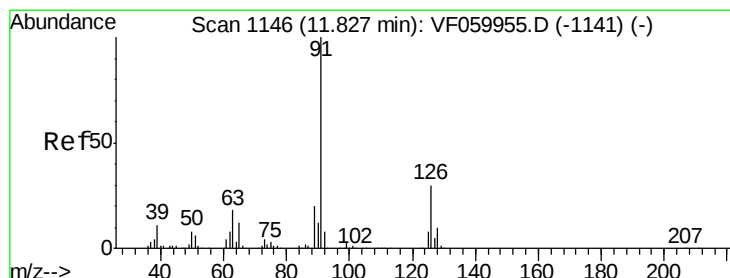
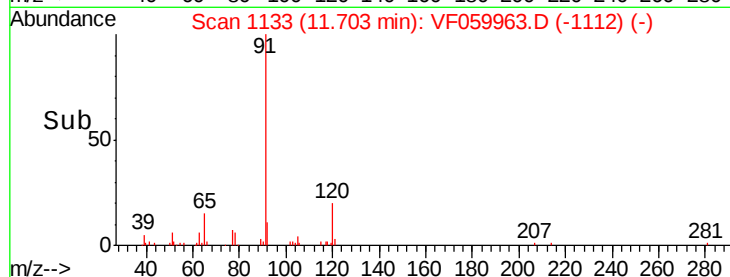
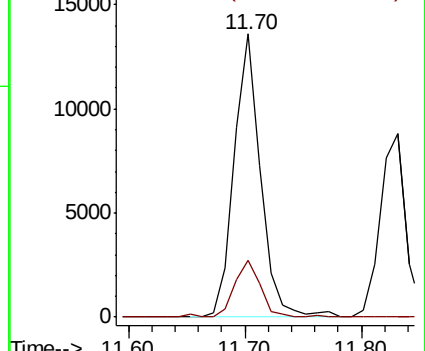
91 100

120 20.2 10.4 31.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 2.42 ug/l

RT: 11.83 min Scan# 1146

Delta R.T. 0.00 min

Lab File: VF059963.D

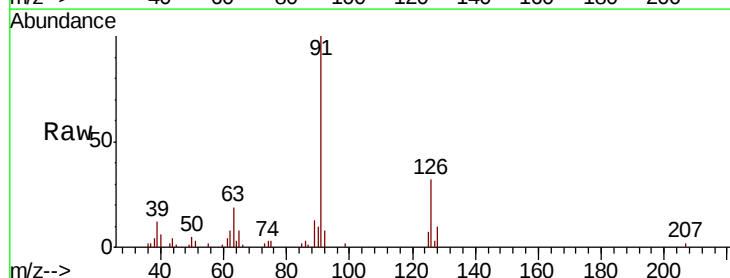
Acq: 15 Aug 2018 00:42

Tgt Ion: 91 Resp: 13547

Ion Ratio Lower Upper

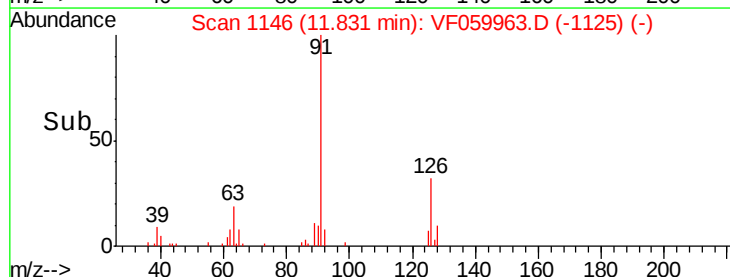
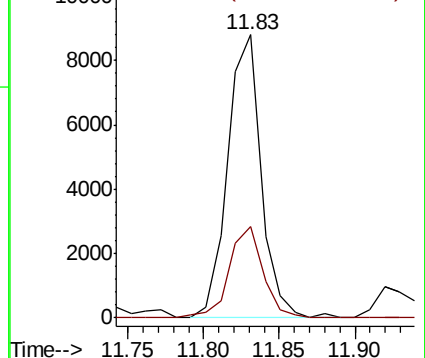
91 100

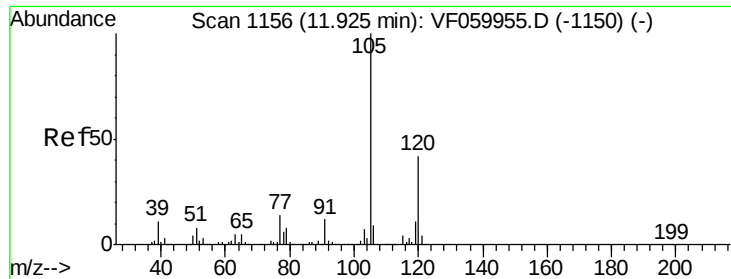
126 32.4 15.2 45.5



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

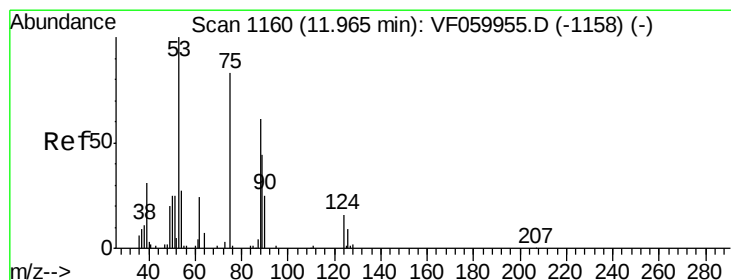
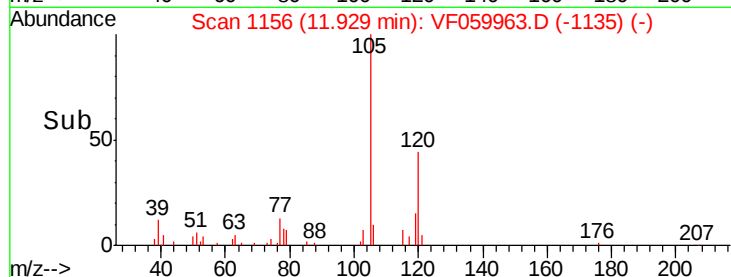
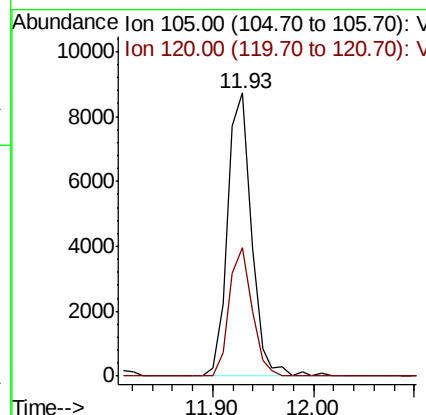
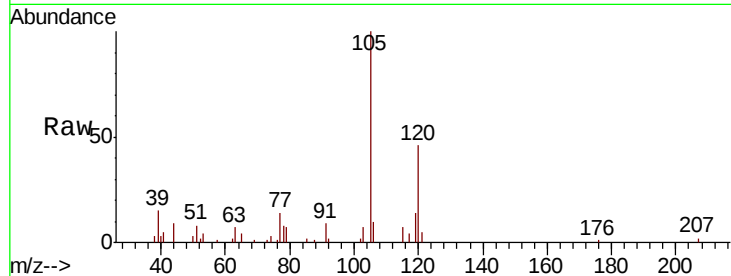




#80
 1,3,5-Trimethylbenzene
 Concen: 2.04 ug/l
 RT: 11.93 min Scan# 1156
 Delta R.T. 0.00 min
 Lab File: VF059963.D
 Acq: 15 Aug 2018 00:42

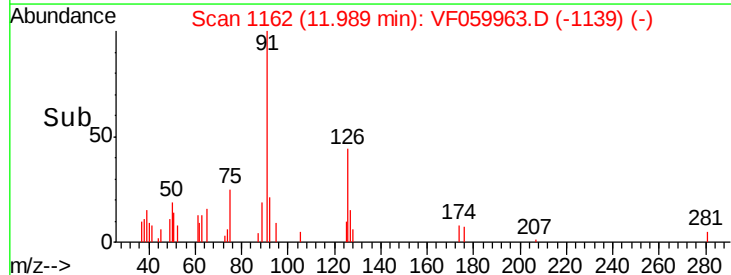
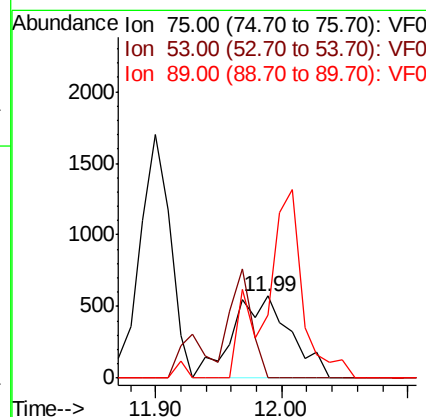
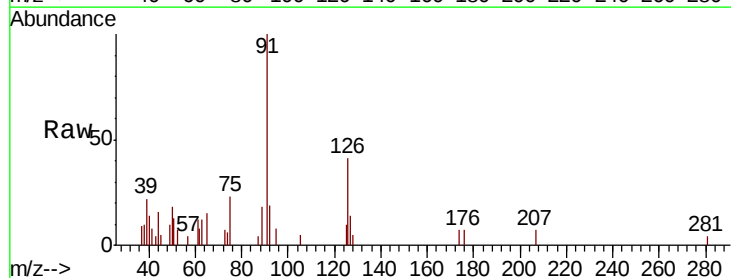
Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

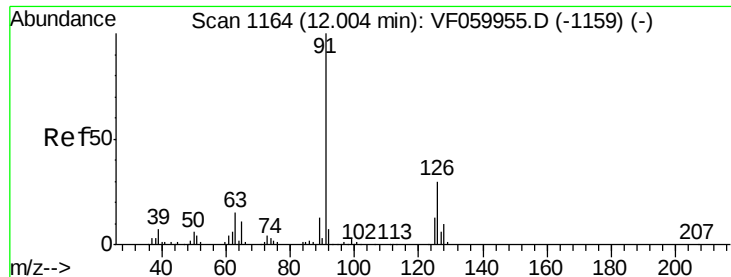
Tot Ion:105 Resp: 14476
 Ion Ratio Lower Upper
 105 100
 120 45.6 21.1 63.3



#81
 trans-1,4-Dichloro-2-butene
 Concen: 4.02 ug/l
 RT: 11.99 min Scan# 1162
 Delta R.T. 0.02 min
 Lab File: VF059963.D
 Acq: 15 Aug 2018 00:42

Tgt Ion: 75 Resp: 1814
 Ion Ratio Lower Upper
 75 100
 53 0.0 97.1 145.7#
 89 77.8 43.6 65.4#





#82

4-Chlorotoluene

Concen: 2.24 ug/l

RT: 12.01 min Scan# 1164

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

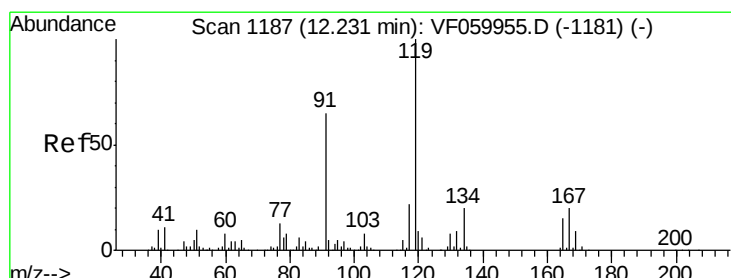
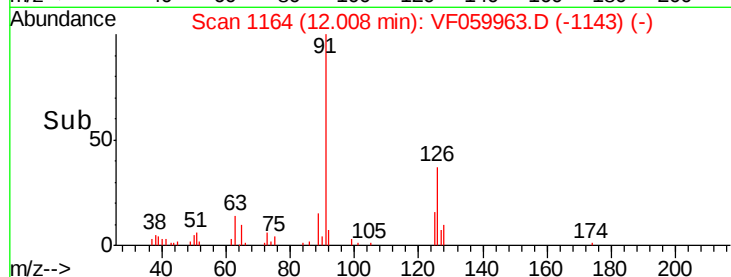
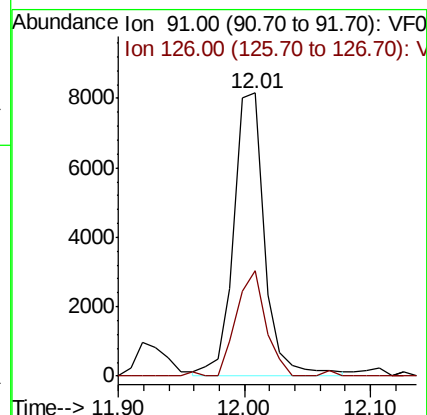
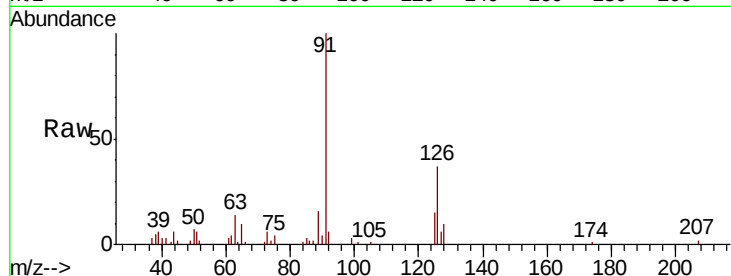
LOD-MDL-SOIL-01-QT3-2018

Tot Ion: 91 Resp: 13850

Ion Ratio Lower Upper

91 100

126 37.3 15.3 45.8



#83

tert-Butylbenzene

Concen: 2.15 ug/l

RT: 12.23 min Scan# 1186

Delta R.T. -0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

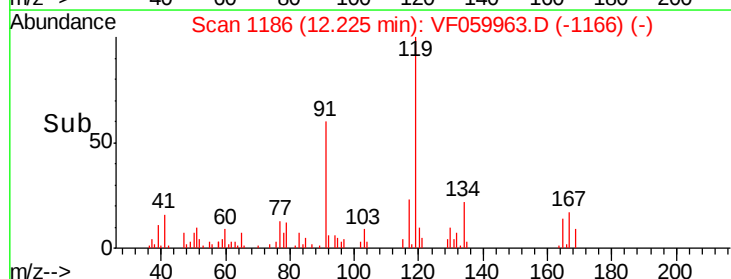
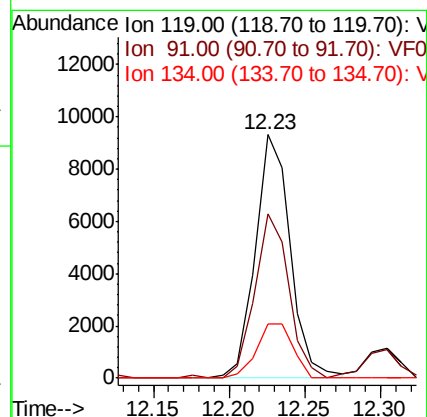
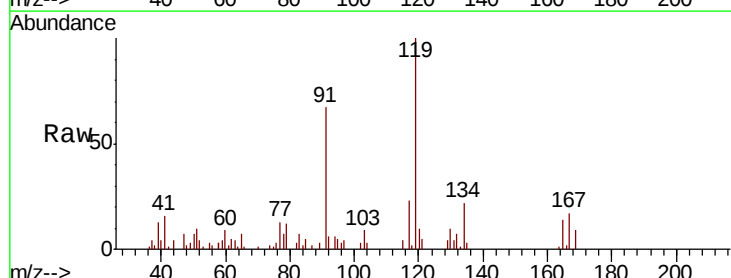
Tgt Ion: 119 Resp: 15036

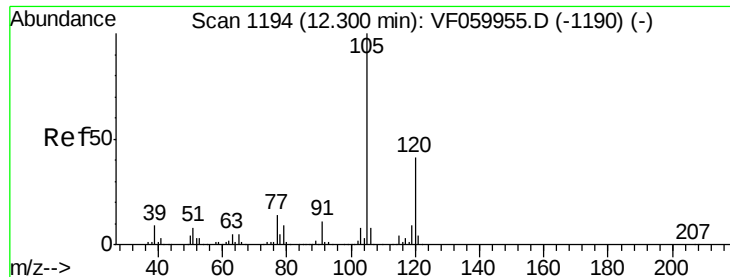
Ion Ratio Lower Upper

119 100

91 67.2 32.6 98.0

134 22.3 10.1 30.3





#84

1,2,4-Trimethylbenzene

Concen: 2.25 ug/l

RT: 12.30 min Scan# 1194

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

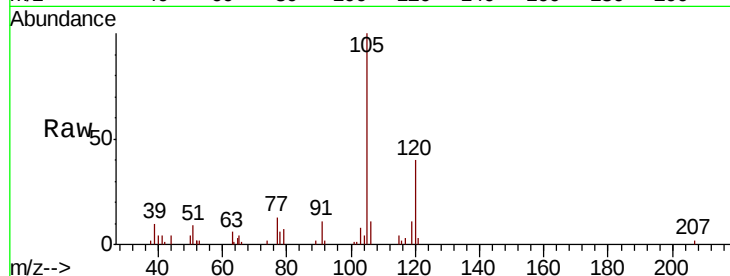
LOD-MDL-SOIL-01-QT3-2018

Tot Ion:105 Resp: 16070

Ion Ratio Lower Upper

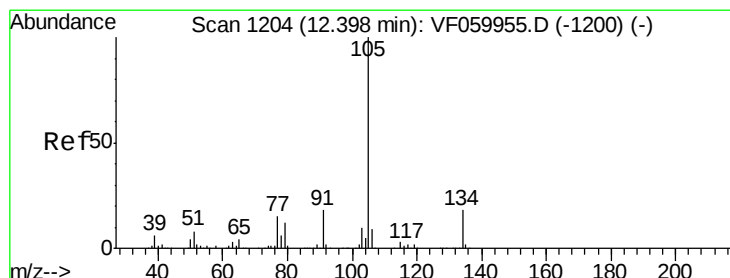
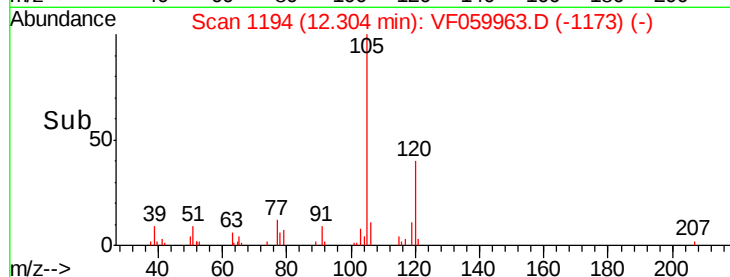
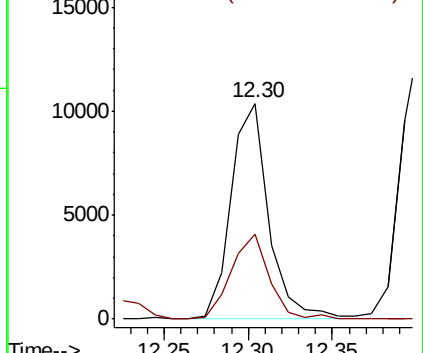
105 100

120 39.7 20.6 61.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 2.27 ug/l

RT: 12.40 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VF059963.D

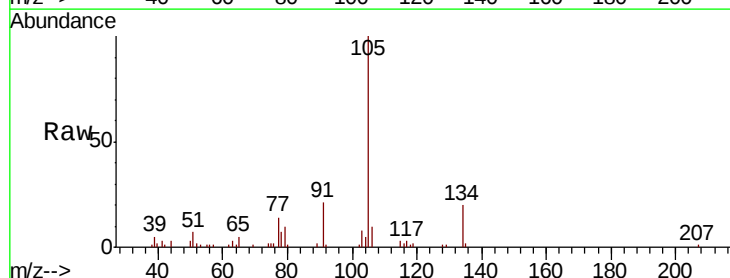
Acq: 15 Aug 2018 00:42

Tgt Ion:105 Resp: 20244

Ion Ratio Lower Upper

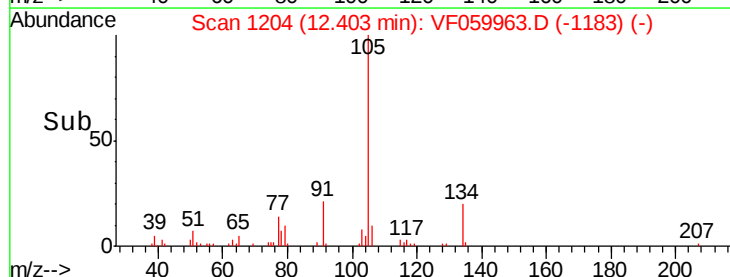
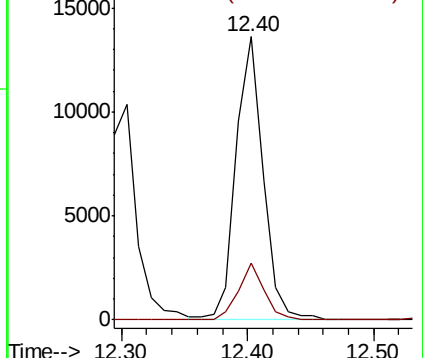
105 100

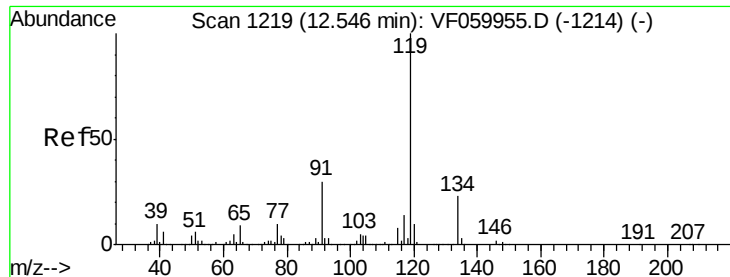
134 20.0 8.9 26.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

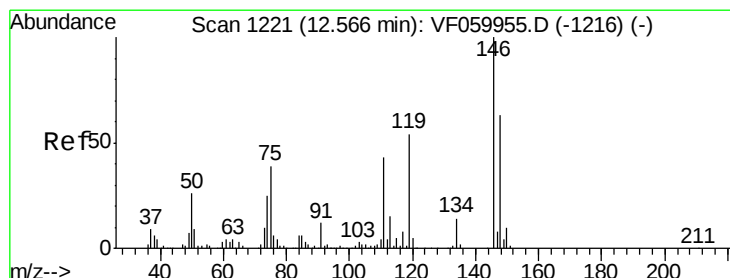
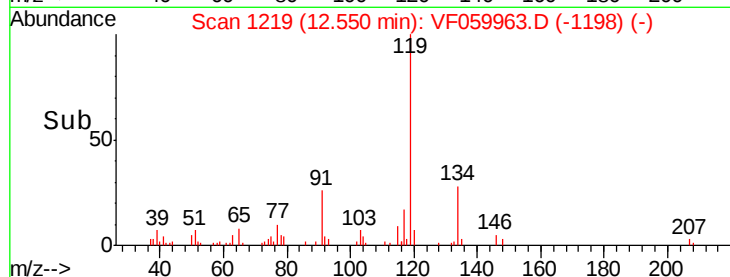
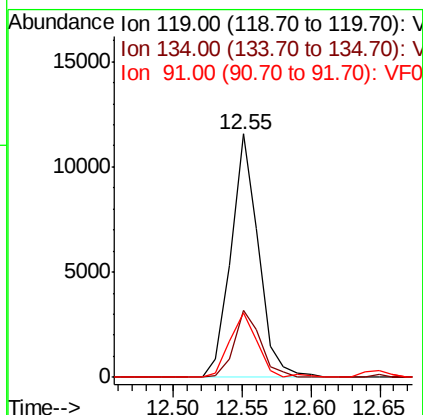
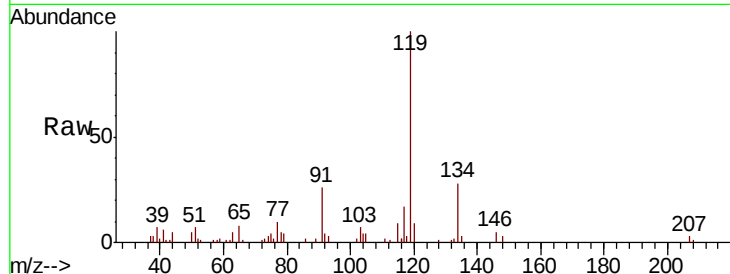




#86
p-Isopropyltoluene
Concen: 2.05 ug/l
RT: 12.55 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

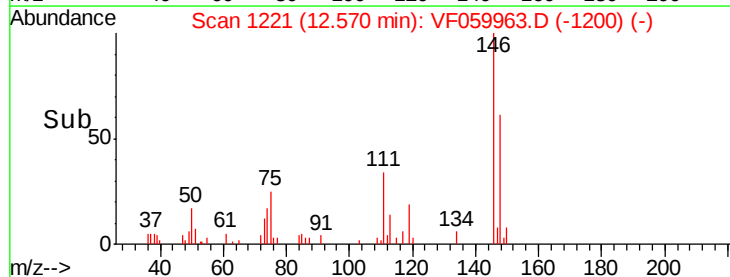
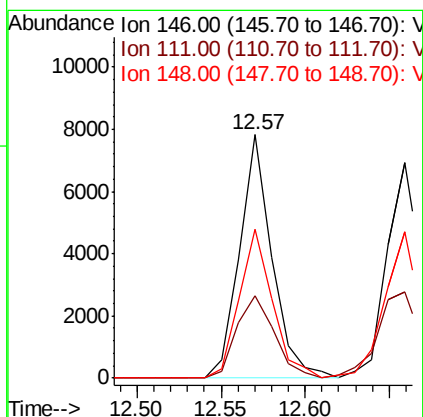
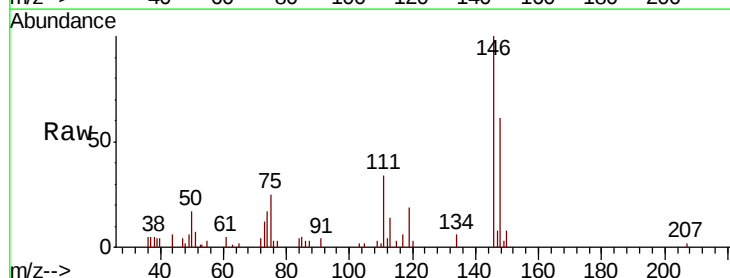
Instrument :
MSVOA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2018

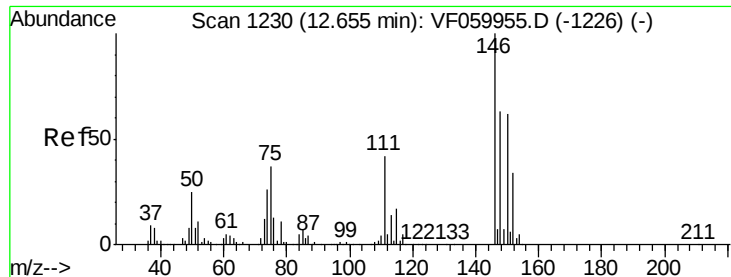
Tot Ion	Ratio	Lower	Upper
119	100		
134	27.6	11.4	34.2
91	26.4	14.8	44.4



#87
1,3-Dichlorobenzene
Concen: 2.76 ug/l
RT: 12.57 min Scan# 1221
Delta R.T. 0.00 min
Lab File: VF059963.D
Acq: 15 Aug 2018 00:42

Tgt Ion	Ratio	Lower	Upper
146	100		
111	33.6	21.3	63.9
148	61.0	31.4	94.3





#88

1,4-Dichlorobenzene

Concen: 2.78 ug/l

RT: 12.66 min Scan# 1230

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

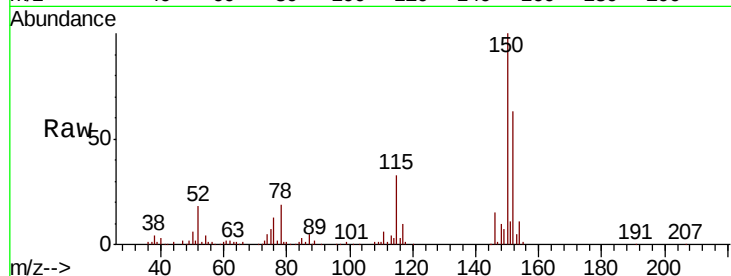
Tot Ion:146 Resp: 10374

Ion Ratio Lower Upper

146 100

111 40.0 21.1 63.1

148 68.0 31.7 95.1

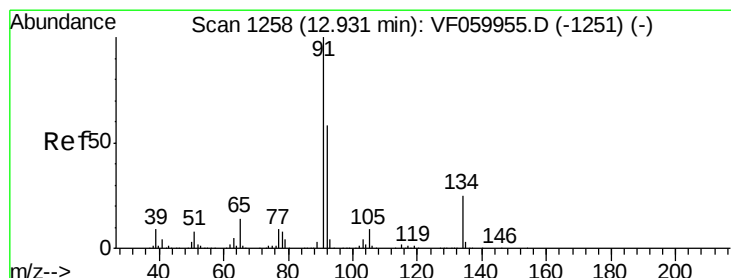
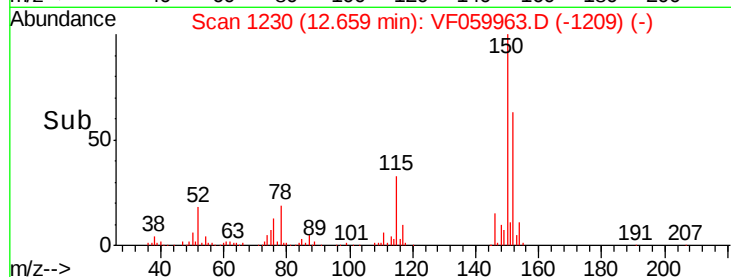
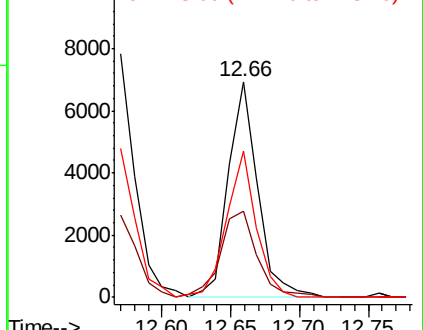


Abundance

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: 2.09 ug/l

RT: 12.93 min Scan# 1258

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

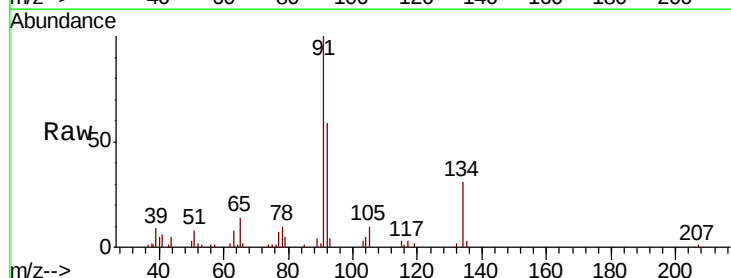
Tgt Ion: 91 Resp: 15771

Ion Ratio Lower Upper

91 100

92 58.9 29.2 87.6

134 31.4 12.8 38.3

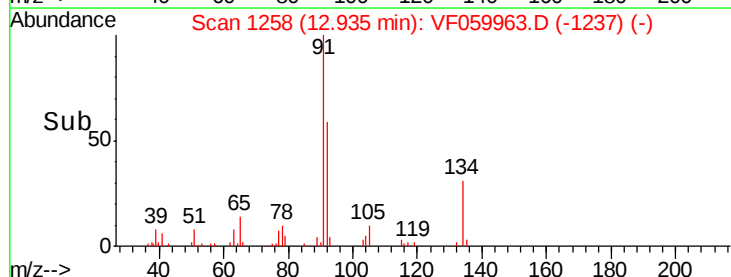
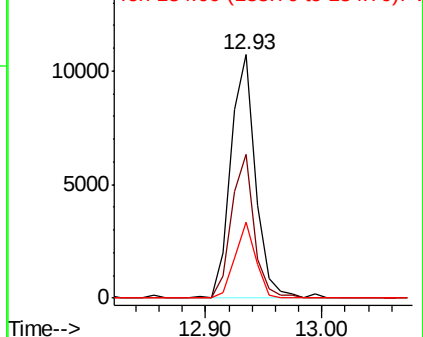


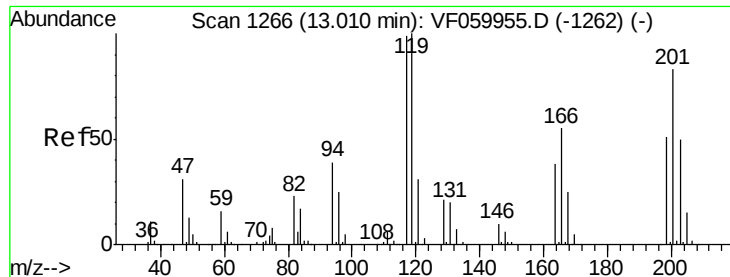
Abundance

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: 2.33 ug/l

RT: 13.00 min Scan# 1265

Delta R.T. -0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

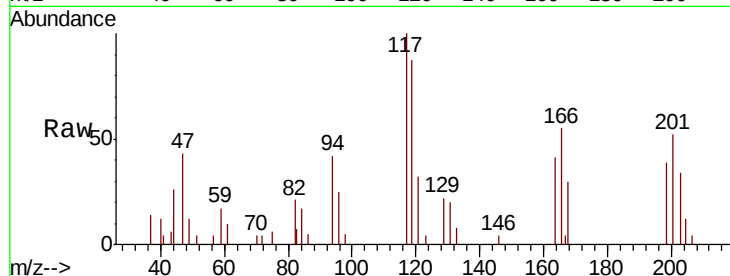
LOD-MDL-SOIL-01-QT3-2018

Tot Ion:117 Resp: 4532

Ion Ratio Lower Upper

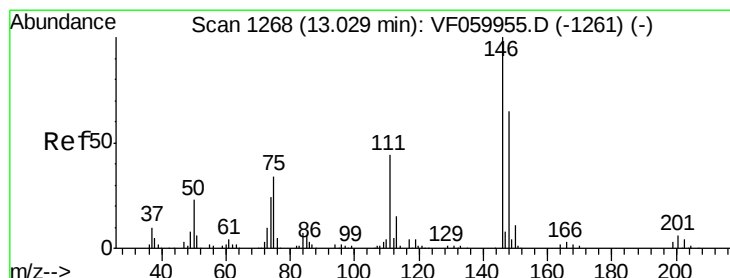
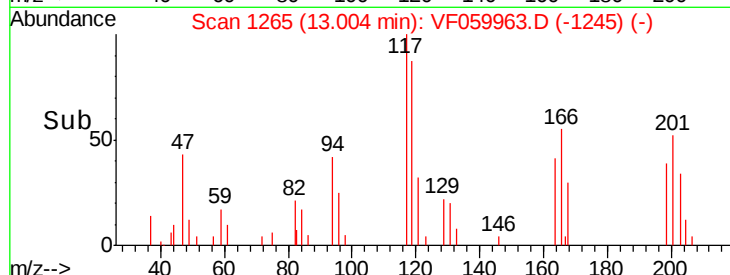
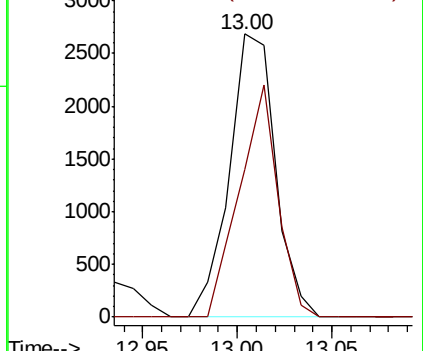
117 100

201 52.2 41.8 125.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V



#91

1,2-Dichlorobenzene

Concen: 2.54 ug/l

RT: 13.03 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

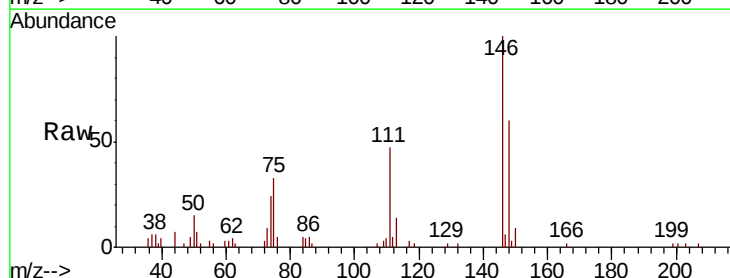
Tgt Ion:146 Resp: 9356

Ion Ratio Lower Upper

146 100

111 46.9 22.0 66.0

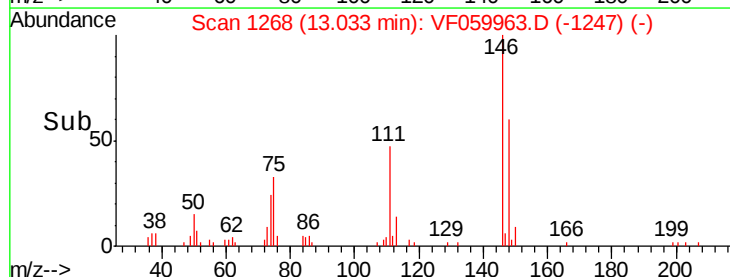
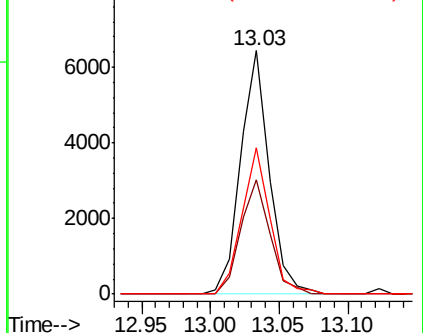
148 60.1 32.4 97.0

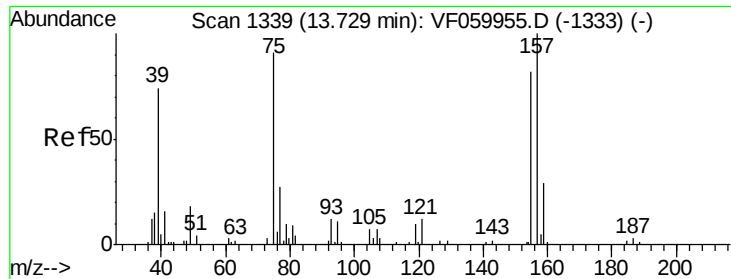


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.93 ug/l

RT: 13.72 min Scan# 1338

Delta R.T. -0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

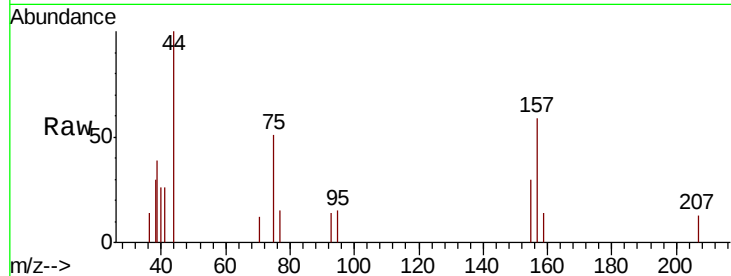
Tot Ion: 75 Resp: 670

Ion Ratio Lower Upper

75 100

155 57.6 44.6 134.0

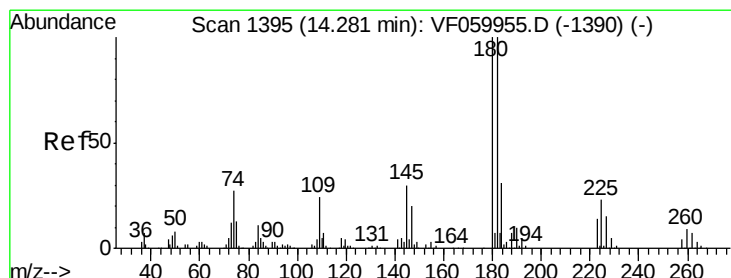
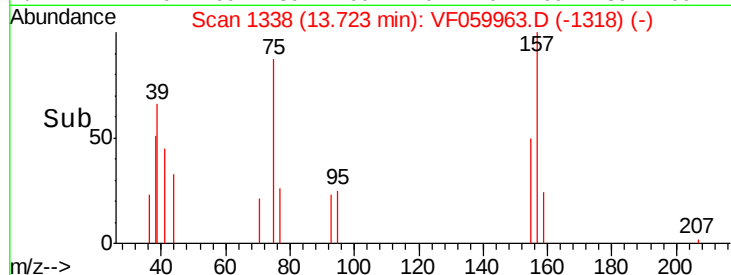
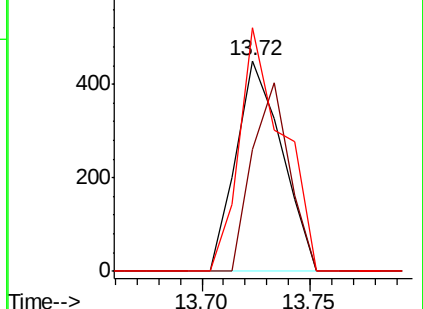
157 115.5 54.8 164.3



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V



#93

1,2,4-Trichlorobenzene

Concen: 2.43 ug/l

RT: 14.28 min Scan# 1394

Delta R.T. -0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

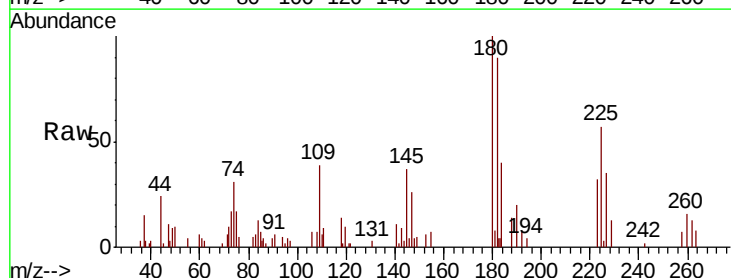
Tgt Ion:180 Resp: 7160

Ion Ratio Lower Upper

180 100

182 93.7 50.2 150.7

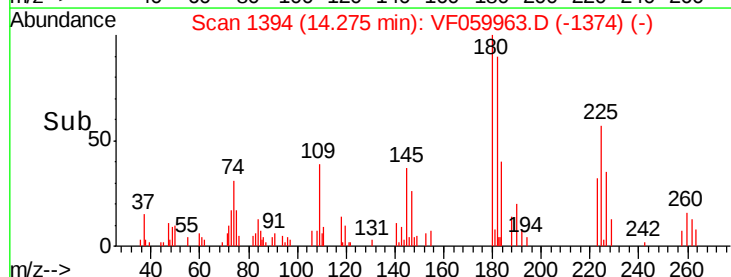
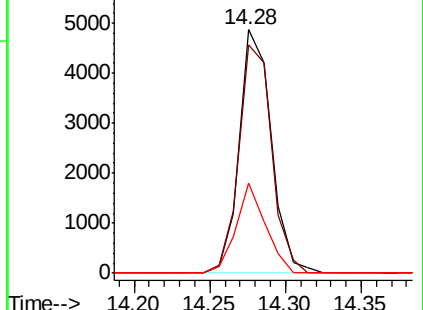
145 37.2 14.9 44.9

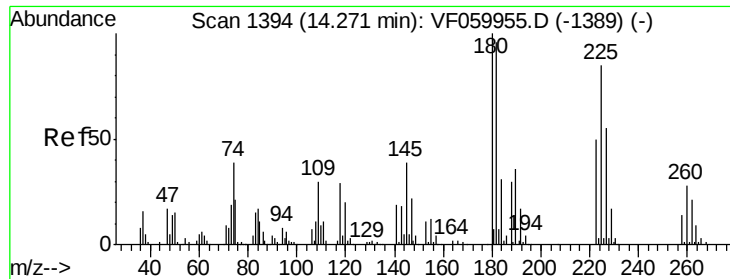


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#94

Hexachlorobutadiene

Concen: 2.31 ug/l

RT: 14.27 min Scan# 1393

Delta R.T. -0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

Instrument :

MSVOA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2018

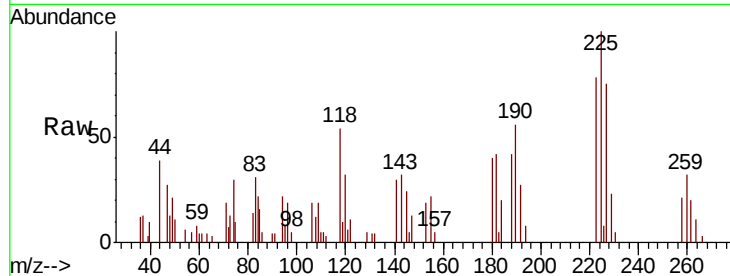
Tot Ion:225 Resp: 4869

Ion Ratio Lower Upper

225 100

223 72.1 29.6 88.8

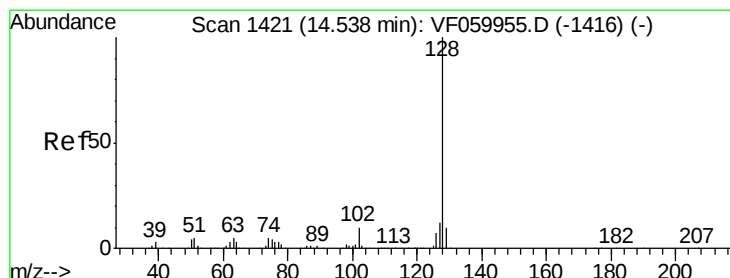
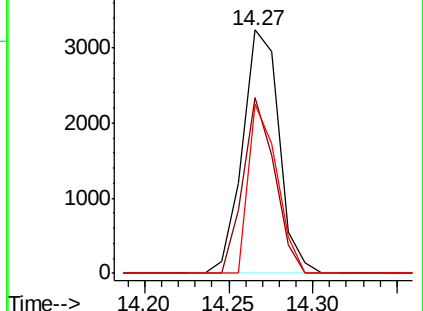
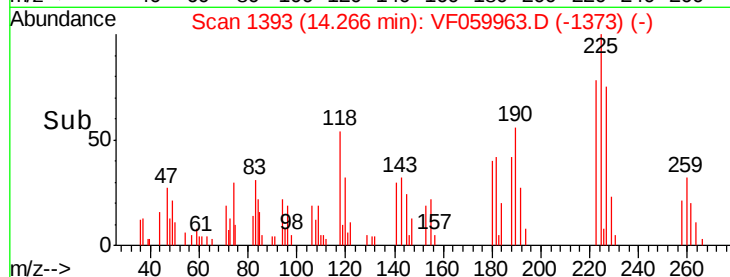
227 69.5 32.5 97.5



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: 2.27 ug/l

RT: 14.53 min Scan# 1420

Delta R.T. -0.01 min

Lab File: VF059963.D

Acq: 15 Aug 2018 00:42

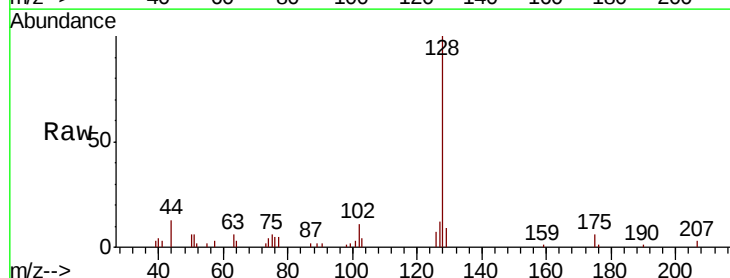
Tgt Ion:128 Resp: 10923

Ion Ratio Lower Upper

128 100

127 12.3 9.9 14.9

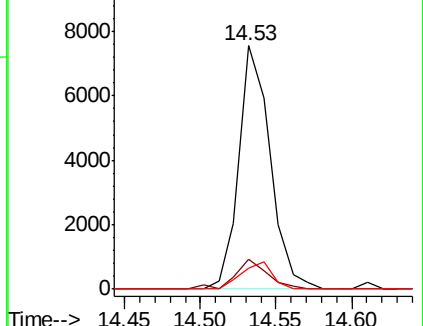
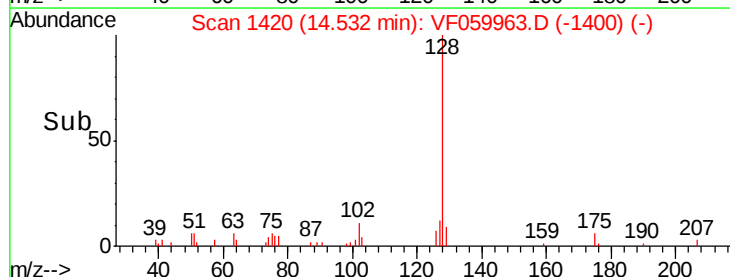
129 8.8 8.4 12.6

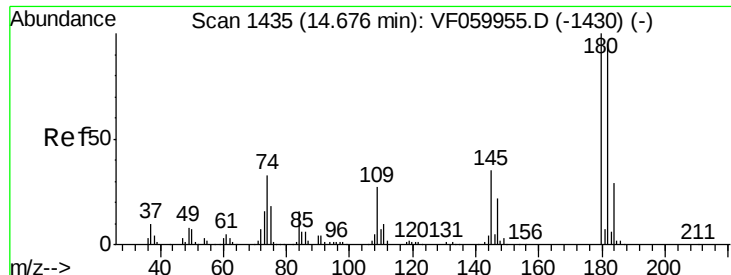


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 2.41 ug/l
 RT: 14.68 min Scan# 1435
 Delta R.T. 0.00 min
 Lab File: VF059963.D
 Acq: 15 Aug 2018 00:42

Instrument :
 MSVOA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2018

Tot Ion	Ion	Ratio	Lower	Upper
180	180	100		
182	182	87.4	47.5	142.6
145	145	27.5	17.6	52.8

