

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF081418\
 Data File : VF059964.D
 Acq On : 15 Aug 2018 1:09
 Operator : VA/AP
 Sample : J3762-02
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

Manual Integrations
 APPROVED

apatel
 8/16/2018 12:19:37 PM

Quant Time: Aug 15 12:03:09 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	128612	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.79	114	177908	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.94	117	180161	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.65	152	116940	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.04	65	115486	51.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.72%	
35) Dibromofluoromethane	4.32	113	91779	51.48	ug/l	0.01
Spiked Amount	50.000		Recovery	=	102.96%	
50) Toluene-d8	7.73	98	193977	49.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.68%	
62) 4-Bromofluorobenzene	11.53	95	110540	51.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.38%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.99	85	18107	9.50	ug/l	95
3) Chloromethane	1.09	50	8647	10.65	ug/l	97
4) Vinyl Chloride	1.17	62	8292	8.89	ug/l	95
5) Bromomethane	1.35	94	7298	8.69	ug/l	86
6) Chloroethane	1.44	64	5513	9.10	ug/l	96
7) Trichlorofluoromethane	1.54	101	22947	8.42	ug/l	91
8) Diethyl Ether	1.71	74	3972	10.60	ug/l	70
9) 1,1,2-Trichlorotrifluoroet	1.92	101	13212	9.61	ug/l	94
10) Methyl Iodide	1.97	142	21686	10.10	ug/l	91
11) Tert butyl alcohol	2.70	59	4451	49.83	ug/l	96
12) 1,1-Dichloroethene	1.87	96	9538	9.36	ug/l #	82
13) Acrolein	2.09	56	1708	46.63	ug/l #	63
14) Allyl chloride	2.20	41	14258	9.83	ug/l	96
15) Acrylonitrile	3.09	53	6537	48.27	ug/l #	85
16) Acetone	2.35	43	19898	44.58	ug/l	99
17) Carbon Disulfide	1.89	76	25169	9.64	ug/l	97
18) Methyl Acetate	2.47	43	6115	9.85	ug/l	95
19) Methyl tert-butyl Ether	2.55	73	27570	9.42	ug/l	96
20) Methylene Chloride	2.29	84	12865m	9.47	ug/l	
21) trans-1,2-Dichloroethene	2.43	96	10020	10.11	ug/l	95
22) Diisopropyl ether	2.94	45	32642	9.79	ug/l	98
23) Vinyl Acetate	3.34	43	80958	48.90	ug/l #	95
24) 1,1-Dichloroethane	3.02	63	23953	10.16	ug/l	99
25) 2-Butanone	4.53	43	21608	47.87	ug/l	92
26) 2,2-Dichloropropane	3.79	77	14988	9.77	ug/l	96
27) cis-1,2-Dichloroethene	3.66	96	10645	9.72	ug/l	86
28) Bromochloromethane	3.91	49	8951	10.20	ug/l	98
29) Tetrahydrofuran	4.27	42	8022	51.74	ug/l	95
30) Chloroform	4.05	83	31404	9.70	ug/l	87
31) Cyclohexane	3.89	56	11748	9.97	ug/l	93
32) 1,1,1-Trichloroethane	4.29	97	24787	9.31	ug/l	96
36) 1,1-Dichloropropene	4.48	75	18489	9.35	ug/l	92
37) Ethyl Acetate	4.30	43	9383	11.10	ug/l #	82
38) Carbon Tetrachloride	4.19	117	31289	9.51	ug/l	95

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.65	83	13938	9.70	ug/l	89
40) Benzene	4.83	78	32244	9.64	ug/l	99
41) Methacrylonitrile	4.93	41	4214	10.10	ug/l	95
42) 1,2-Dichloroethane	5.14	62	26422	9.94	ug/l #	86
43) Isopropyl Acetate	7.13	43	8154	8.84	ug/l #	89
44) Trichloroethene	5.69	130	13729	10.66	ug/l	100
45) 1,2-Dichloropropane	6.42	63	8783	9.93	ug/l	94
46) Dibromomethane	6.27	93	7878	9.02	ug/l #	85
47) Bromodichloromethane	6.57	83	24941	9.90	ug/l	97
48) Methyl methacrylate	6.89	41	6169	8.98	ug/l #	88
49) 1,4-Dioxane	6.88	88	1085	208.95	ug/l	92
51) 4-Methyl-2-Pentanone	8.43	43	44540	49.87	ug/l	100
52) Toluene	7.80	92	24884	10.04	ug/l	85
53) t-1,3-Dichloropropene	8.44	75	18663	9.06	ug/l	92
54) cis-1,3-Dichloropropene	7.47	75	18492	9.33	ug/l	96
55) 1,1,2-Trichloroethane	8.66	97	8576	10.13	ug/l	93
56) Ethyl methacrylate	8.78	69	7416	8.15	ug/l	96
57) 1,3-Dichloropropane	9.02	76	14371	9.21	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.80	63	5446	44.50	ug/l	100
59) 2-Hexanone	9.65	43	31356	48.13	ug/l	94
60) Dibromochloromethane	8.87	129	15034	8.97	ug/l	99
61) 1,2-Dibromoethane	9.15	107	10570	10.01	ug/l	81
64) Tetrachloroethene	8.32	164	13965	9.96	ug/l	97
65) Chlorobenzene	9.96	112	34173	9.82	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.09	131	16736	9.95	ug/l	98
67) Ethyl Benzene	10.06	91	58837	9.57	ug/l	94
68) m/p-Xylenes	10.28	106	42233	20.43	ug/l	94
69) o-Xylene	10.85	106	21215	9.45	ug/l	94
70) Styrene	10.91	104	30999	9.33	ug/l	93
71) Bromoform	10.90	173	9469	9.06	ug/l	96
73) Isopropylbenzene	11.24	105	70352	9.57	ug/l	96
74) N-amyl acetate	11.48	43	15697	9.68	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.80	83	12319	9.96	ug/l	86
76) 1,2,3-Trichloropropane	11.90	75	10316	9.68	ug/l	94
77) Bromobenzene	11.60	156	18549	9.61	ug/l	92
78) n-propylbenzene	11.70	91	84218	9.76	ug/l	97
79) 2-Chlorotoluene	11.82	91	54712	10.12	ug/l	95
80) 1,3,5-Trimethylbenzene	11.92	105	65875	9.62	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.97	75	2944	6.76	ug/l	94
82) 4-Chlorotoluene	12.00	91	53691	9.00	ug/l	99
83) tert-Butylbenzene	12.23	119	63740	9.45	ug/l	92
84) 1,2,4-Trimethylbenzene	12.30	105	68322	9.90	ug/l	99
85) sec-Butylbenzene	12.40	105	82760	9.63	ug/l	96
86) p-Isopropyltoluene	12.55	119	70562	9.32	ug/l	100
87) 1,3-Dichlorobenzene	12.57	146	36090	9.86	ug/l	94
88) 1,4-Dichlorobenzene	12.66	146	35645	9.89	ug/l	100
89) n-Butylbenzene	12.94	91	65851	9.03	ug/l	98
90) Hexachloroethane	13.00	117	18540	9.89	ug/l	69
91) 1,2-Dichlorobenzene	13.03	146	35114	9.89	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.72	75	2963	8.85	ug/l	78

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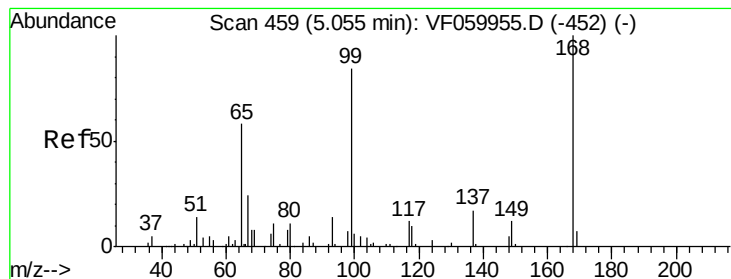
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.28	180	27761	9.76	ug/l	89
94) Hexachlorobutadiene	14.27	225	18004	8.85	ug/l	94
95) Naphthalene	14.53	128	40481	8.71	ug/l	98
96) 1,2,3-Trichlorobenzene	14.68	180	25280	9.31	ug/l	95

(#) = 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: VF059964.D

Acq: 15 Aug 2018 1:09

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT3-2018

Tot Ion:168 Resp: 128612

Ion Ratio Lower Upper

168 100

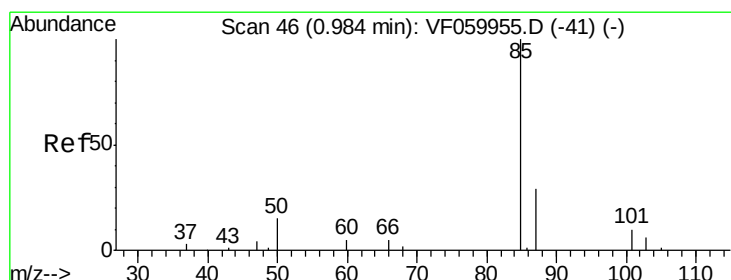
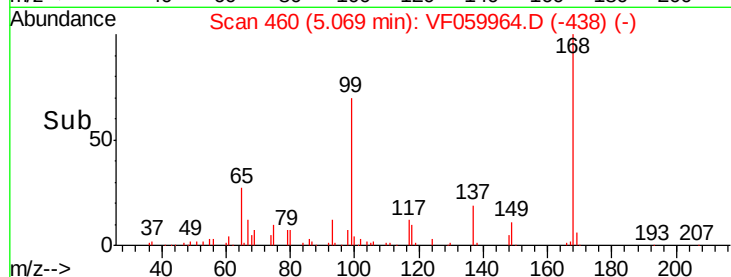
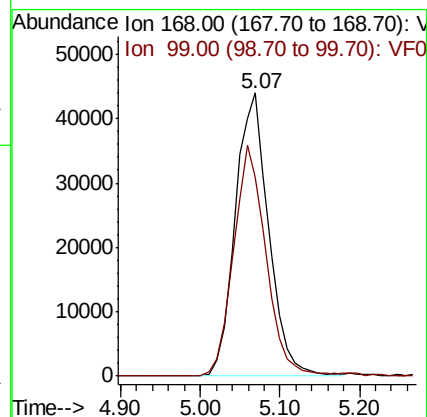
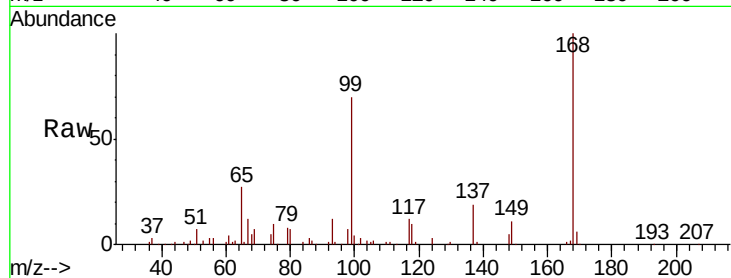
99 70.1 67.4 101.0

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 9.50 ug/l

RT: 0.99 min Scan# 46

Delta R.T. 0.00 min

Lab File: VF059964.D

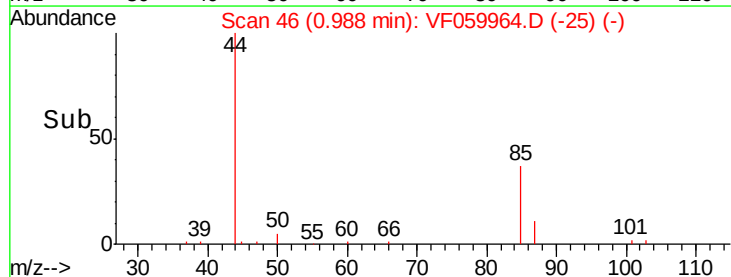
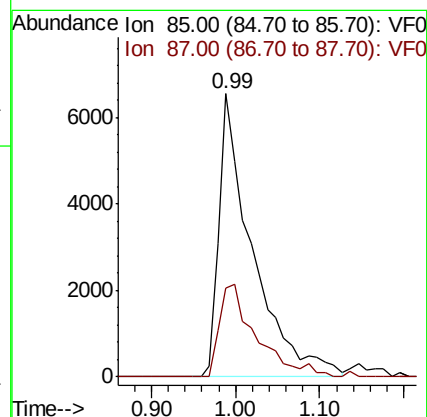
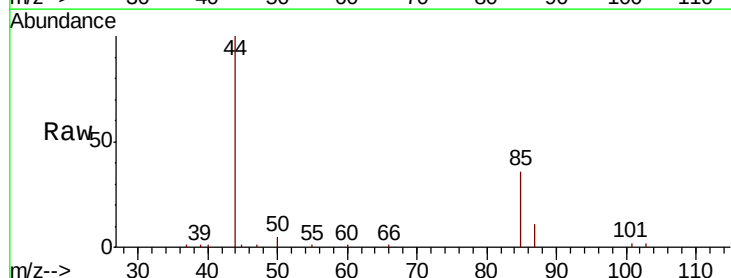
Acq: 15 Aug 2018 1:09

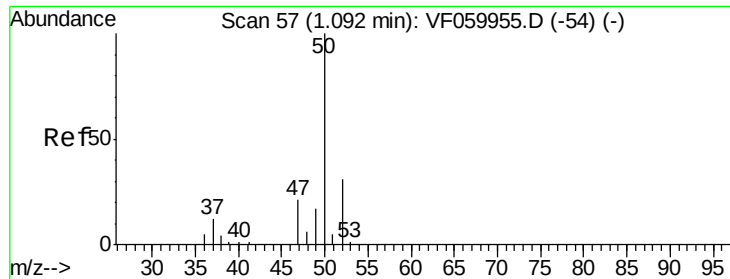
Tgt Ion: 85 Resp: 18107

Ion Ratio Lower Upper

85 100

87 31.3 14.4 43.4





#3

Chloromethane

Concen: 10.65 ug/l

RT: 1.09 min Scan# 56

Delta R.T. -0.01 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT3-2018

Tot Ion: 50 Resp: 8647

Ion Ratio Lower Upper

50 100

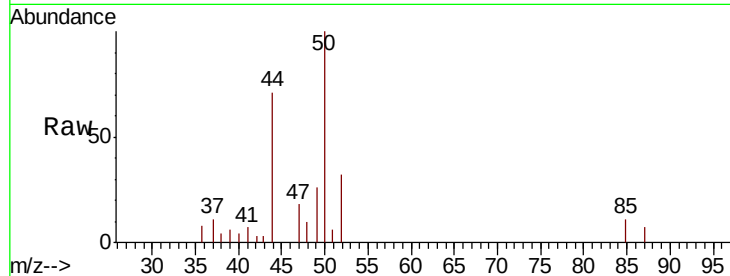
52 31.7 24.2 36.2

Manual Integrations

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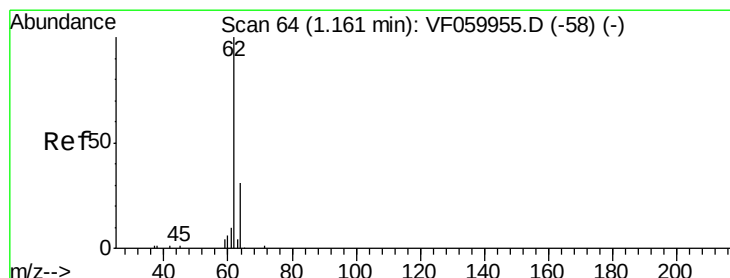
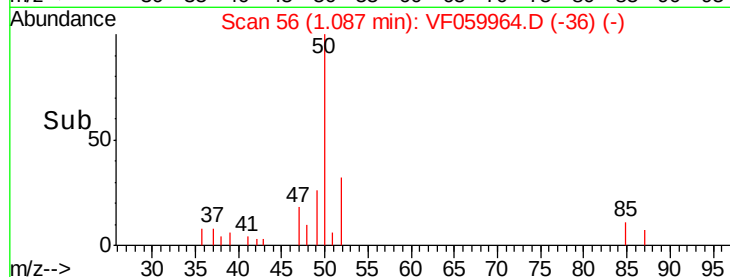
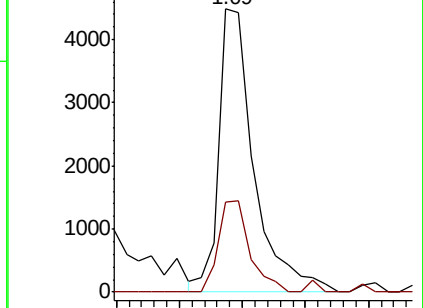
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Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 8.89 ug/l

RT: 1.17 min Scan# 64

Delta R.T. 0.00 min

Lab File: VF059964.D

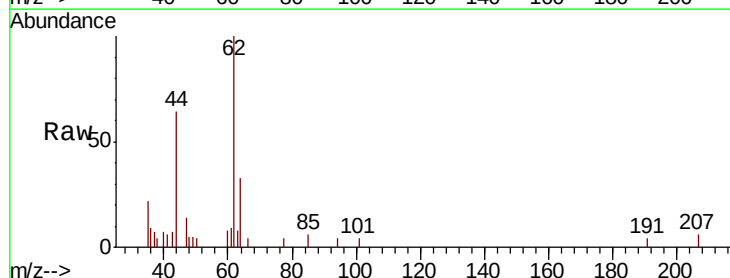
Acq: 15 Aug 2018 1:09

Tgt Ion: 62 Resp: 8292

Ion Ratio Lower Upper

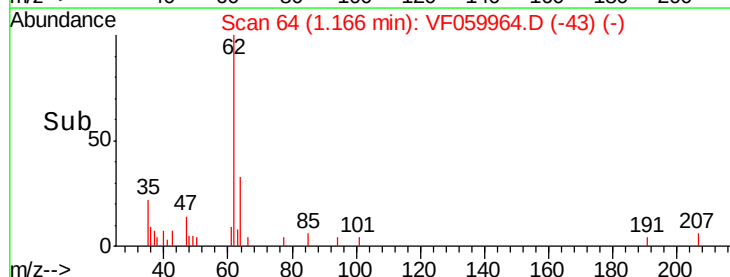
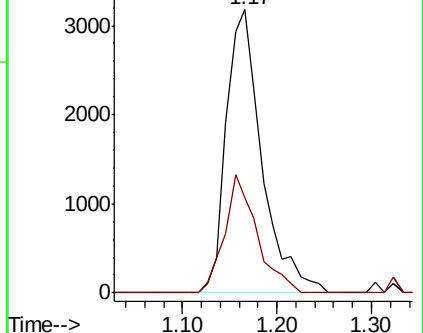
62 100

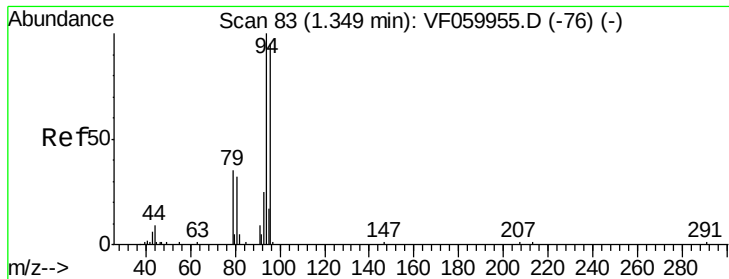
64 33.5 24.7 37.1



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 8.69 ug/l

RT: 1.35 min Scan# 83

Delta R.T. 0.00 min

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Acq: 15 Aug 2018 1:09

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Tot Ion: 94 Resp: 7298

Ion Ratio Lower Upper

94 100

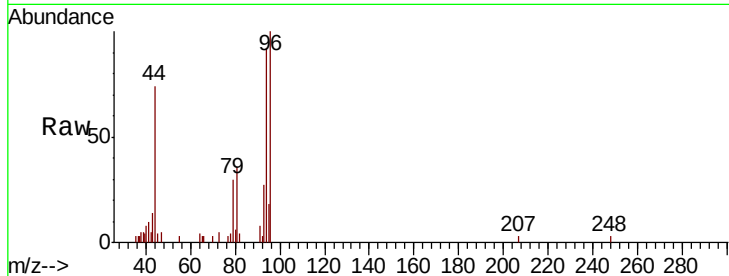
96 108.6 76.3 114.5

Manual Integrations

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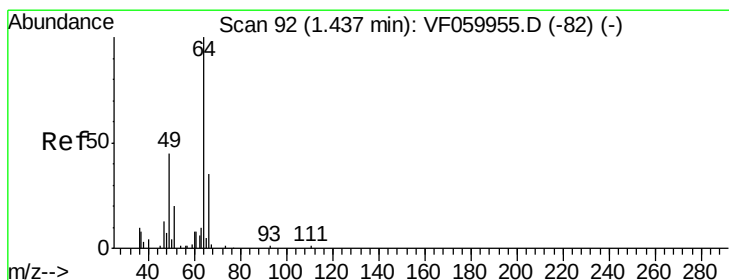
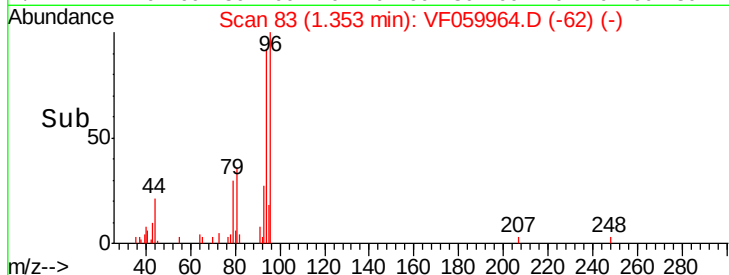
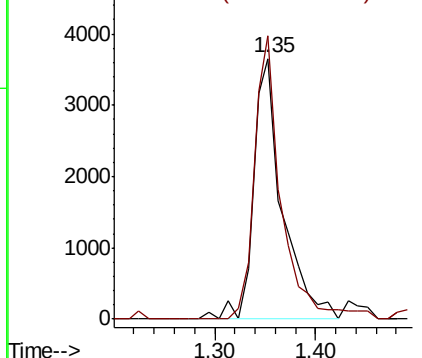
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Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 9.10 ug/l

RT: 1.44 min Scan# 92

Delta R.T. 0.00 min

Lab File: VF059964.D

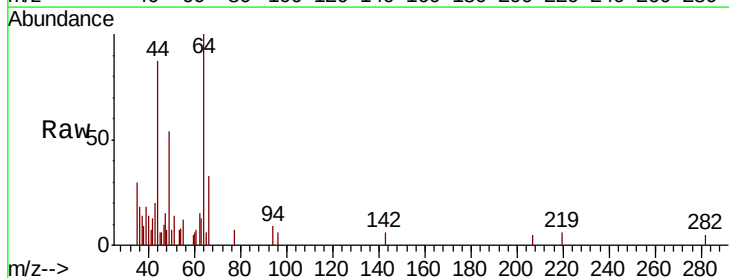
Acq: 15 Aug 2018 1:09

Tgt Ion: 64 Resp: 5513

Ion Ratio Lower Upper

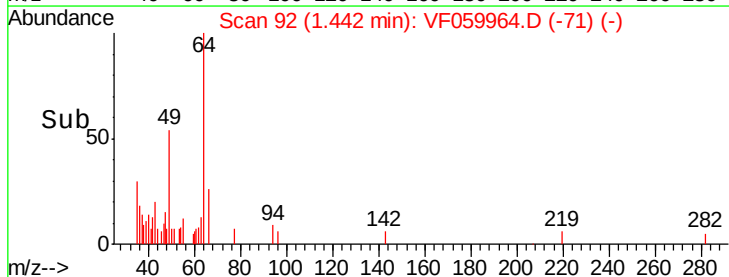
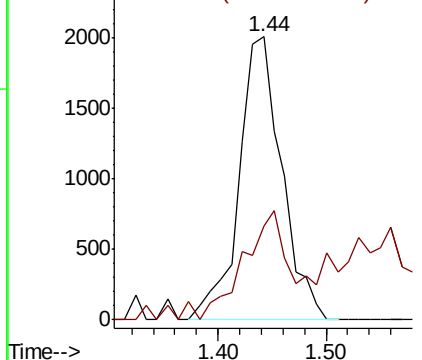
64 100

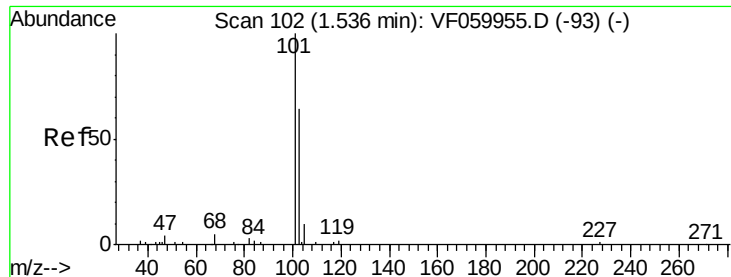
66 33.1 28.2 42.2



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

Trichlorofluoromethane

Concen: 8.42 ug/l

RT: 1.54 min Scan# 102

Delta R.T. 0.00 min

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Tot Ion:101 Resp: 22947

Ion Ratio Lower Upper

101 100

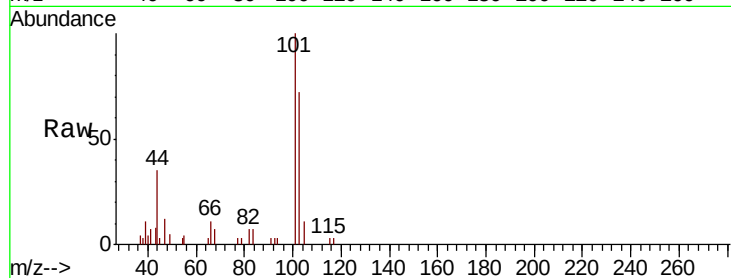
103 71.8 51.6 77.4

Manual Integrations

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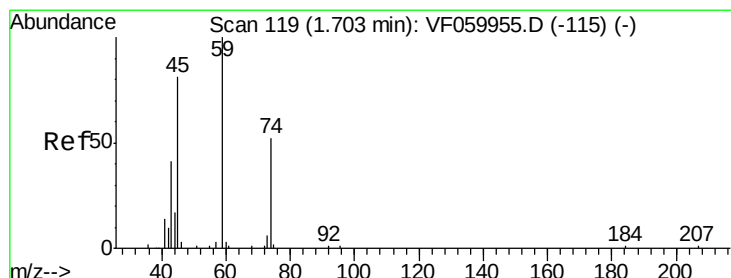
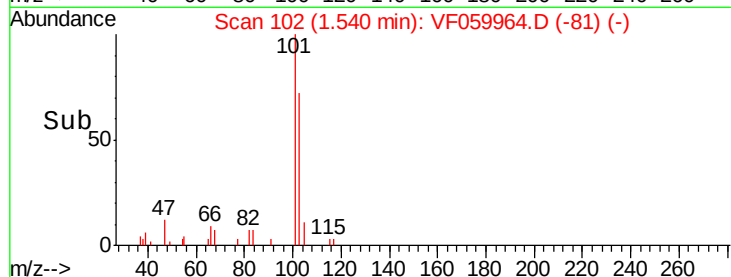
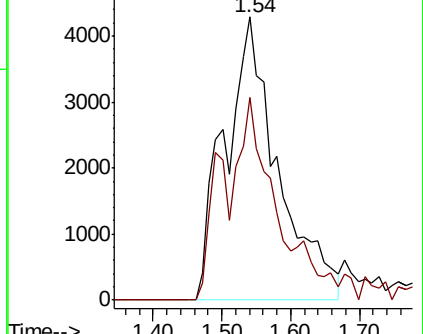
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 10.60 ug/l

RT: 1.71 min Scan# 119

Delta R.T. 0.00 min

Lab File: VF059964.D

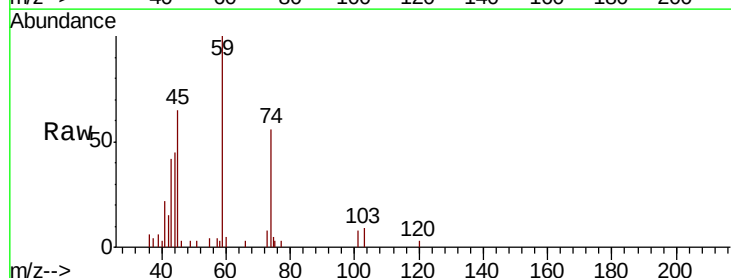
Acq: 15 Aug 2018 1:09

Tgt Ion: 74 Resp: 3972

Ion Ratio Lower Upper

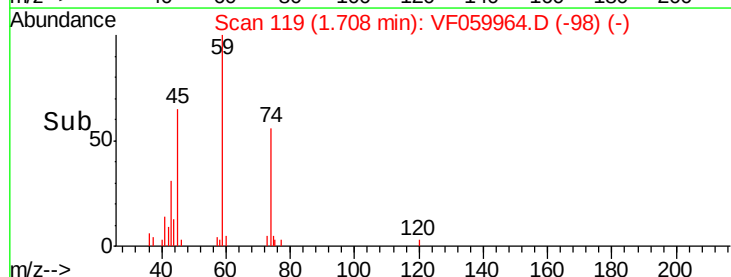
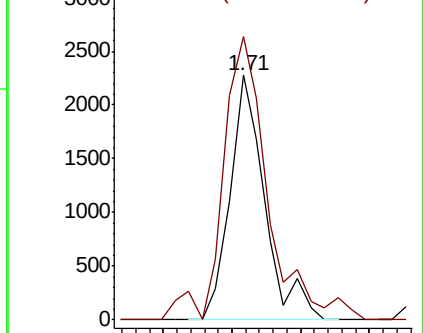
74 100

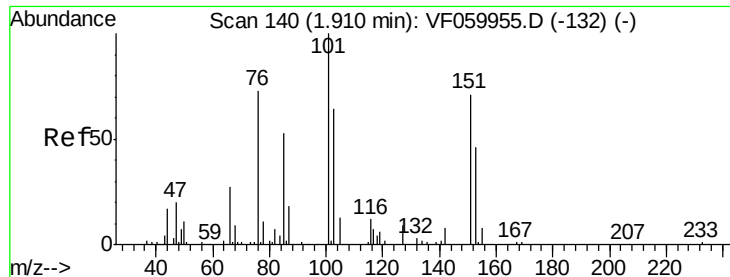
45 115.8 77.5 232.6



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 9.61 ug/l

RT: 1.92 min Scan# 140

Delta R.T. 0.00 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Instrument :

MSVOA_F

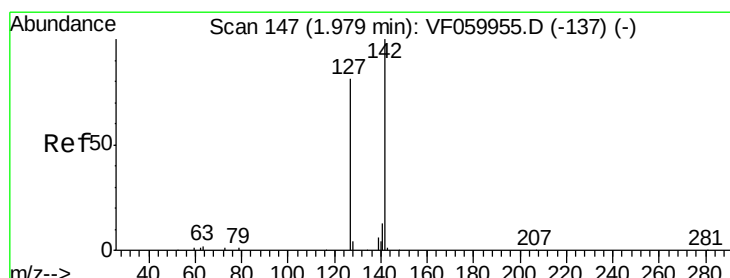
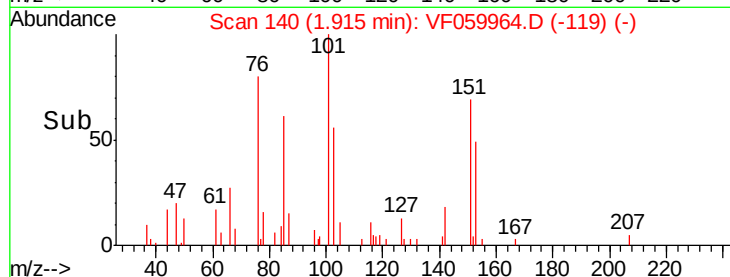
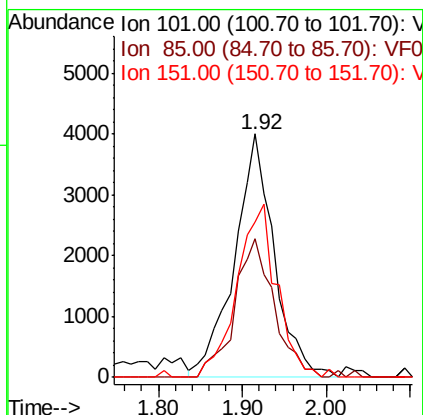
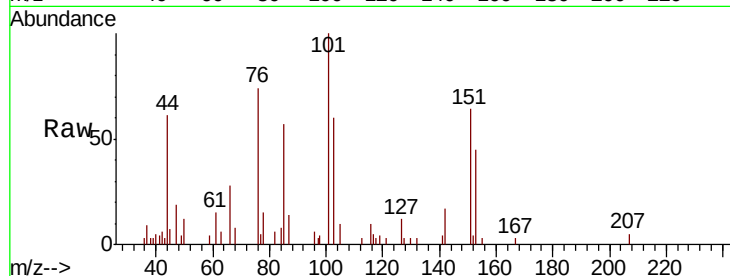
ClientSampleId :

LOQ-SOIL-02-QT3-2018

Tot Ion:	101	Resp:	13212
Ion Ratio	Lower	Upper	
101	100		
85	56.7	42.1	63.1
151	64.0	55.4	83.0

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#10

Methyl Iodide

Concen: 10.10 ug/l

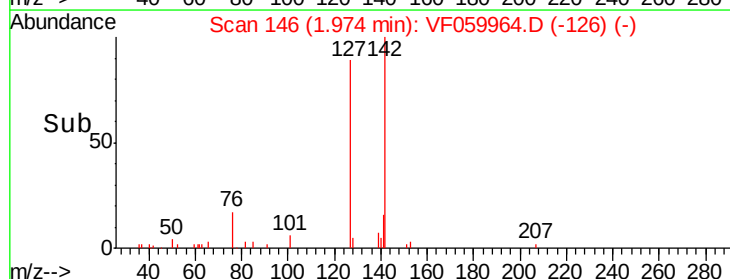
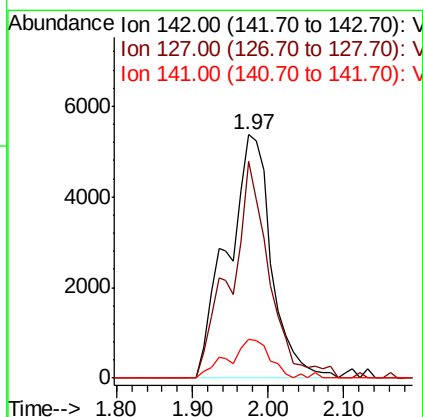
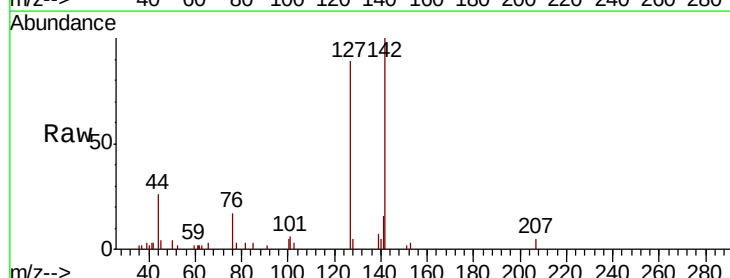
RT: 1.97 min Scan# 146

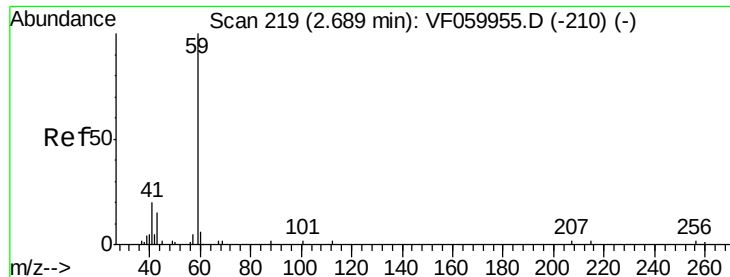
Delta R.T. -0.01 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Tgt Ion:	142	Resp:	21686
Ion Ratio	Lower	Upper	
142	100		
127	88.8	64.5	96.7
141	16.1	10.8	16.2





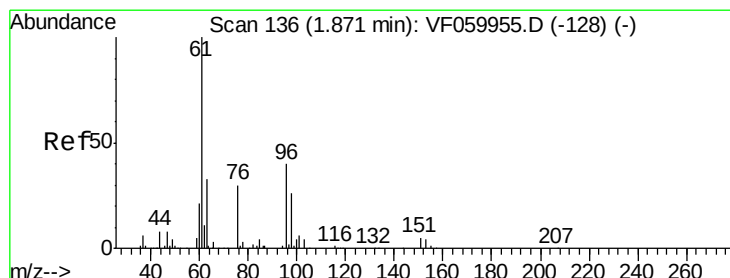
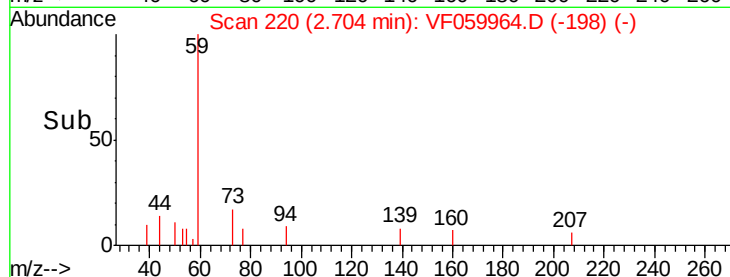
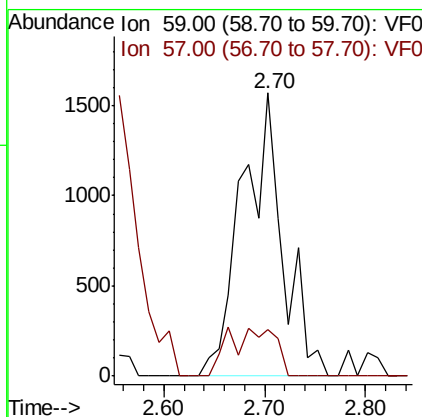
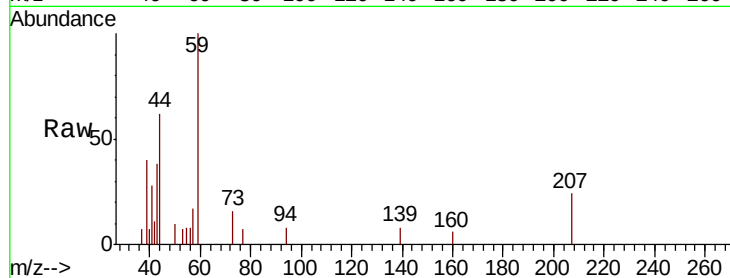
#11
Tert butyl alcohol
Concen: 49.83 ug/l
RT: 2.70 min Scan# 220
Delta R.T. 0.01 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT3-2018

Tot Ion	59	Resp	4451
Ion Ratio	100	Lower	Upper
57	16.5	12.0	18.0

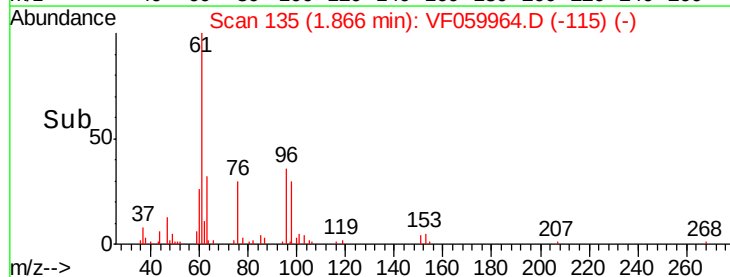
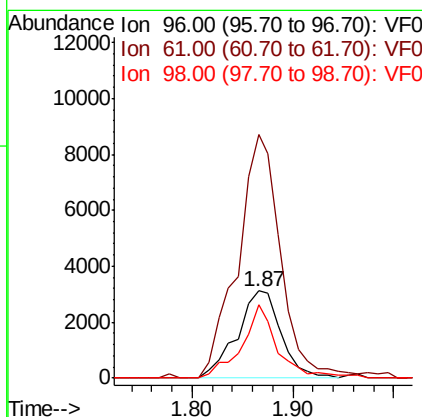
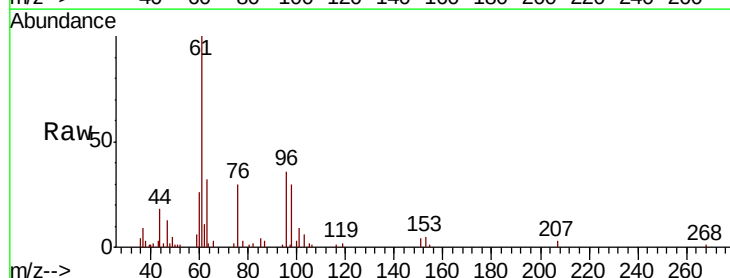
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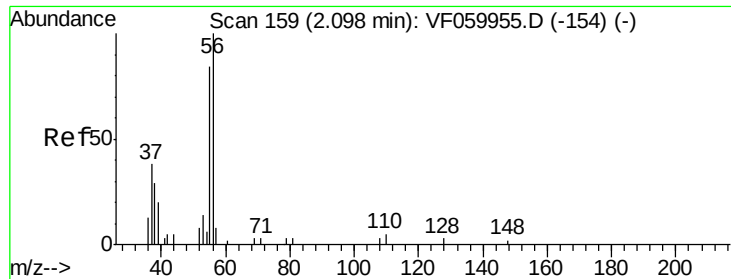
apatel
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#12
1,1-Dichloroethene
Concen: 9.36 ug/l
RT: 1.87 min Scan# 135
Delta R.T. -0.01 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Tgt Ion	96	Resp	9538
Ion Ratio	100	Lower	Upper
61	279.1	201.0	301.4
98	83.8	51.9	77.9#





#13

Acrolein

Concen: 46.63 ug/l

RT: 2.09 min Scan# 158

Delta R.T. -0.00 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT3-2018

Tot Ion: 56 Resp: 1708

Ion Ratio Lower Upper

56 100

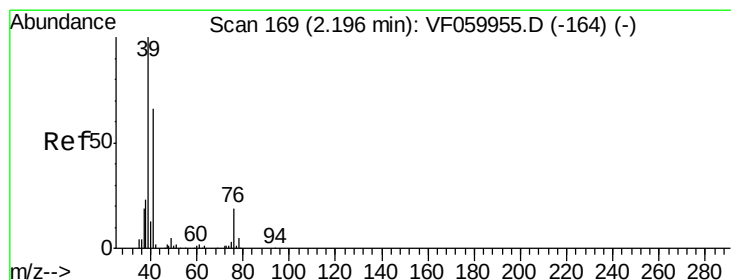
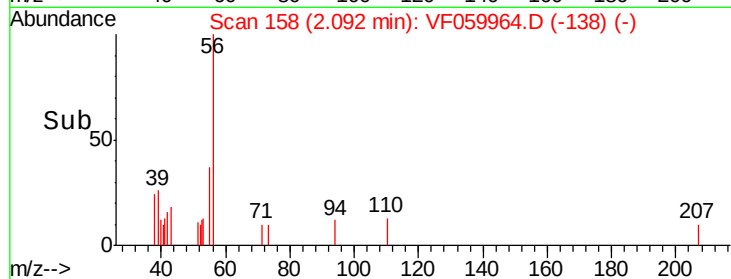
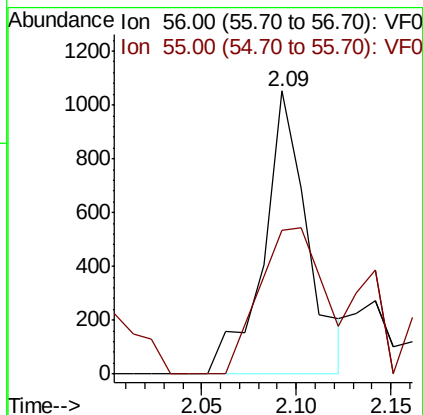
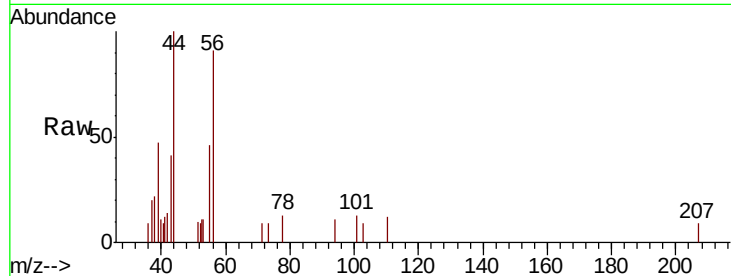
55 50.6 67.4 101.2#

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#14

Allyl chloride

Concen: 9.83 ug/l

RT: 2.20 min Scan# 169

Delta R.T. 0.00 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

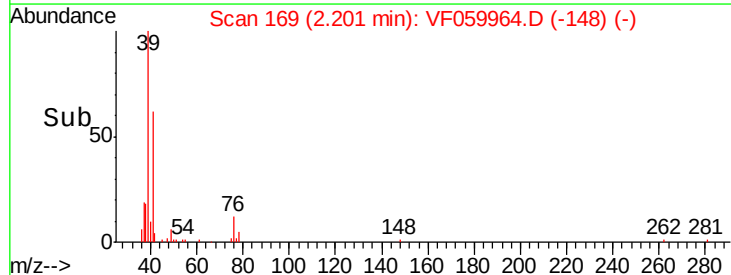
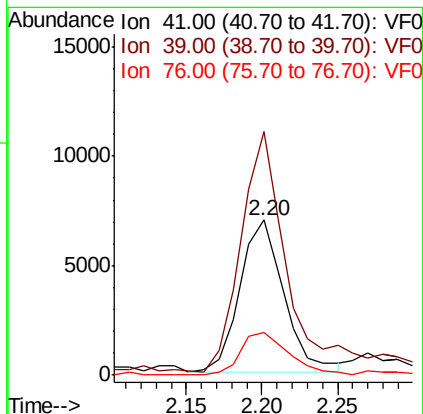
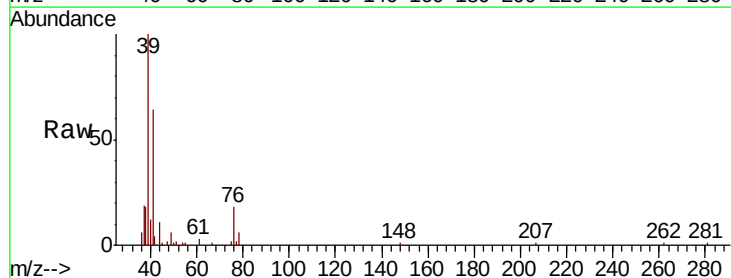
Tgt Ion: 41 Resp: 14258

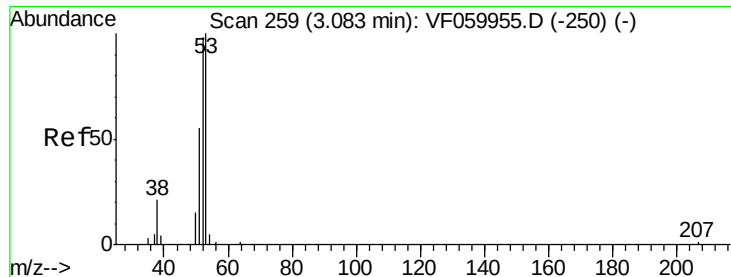
Ion Ratio Lower Upper

41 100

39 157.0 121.0 181.4

76 27.9 23.6 35.4





#15

Acrylonitrile

Concen: 48.27 ug/l

RT: 3.09 min Scan# 259

Delta R.T. 0.00 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Instrument :

MSVOA_F

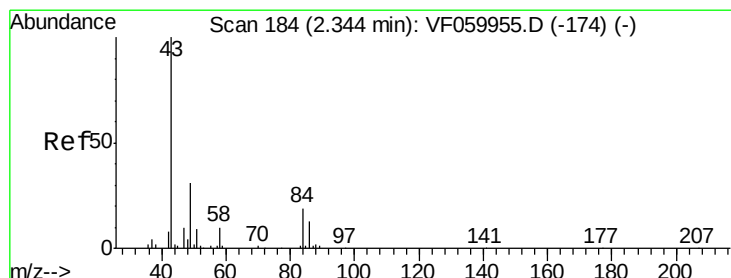
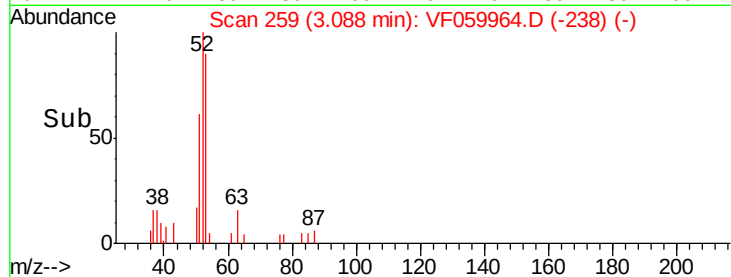
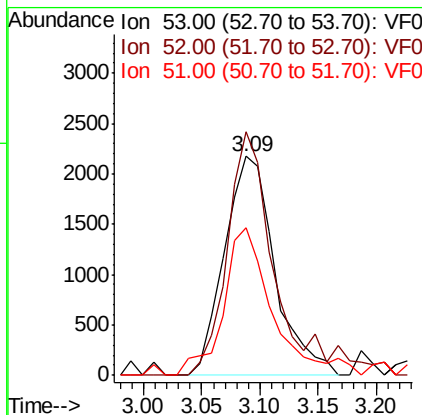
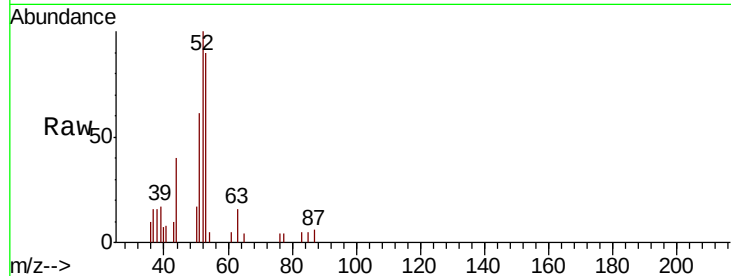
ClientSampleId :

LOQ-SOIL-02-QT3-2018

Tot Ion:	53	Resp:	6537
Ion	Ratio	Lower	Upper
53	100		
52	111.2	78.1	117.1
51	67.3	44.2	66.4#

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#16

Acetone

Concen: 44.58 ug/l

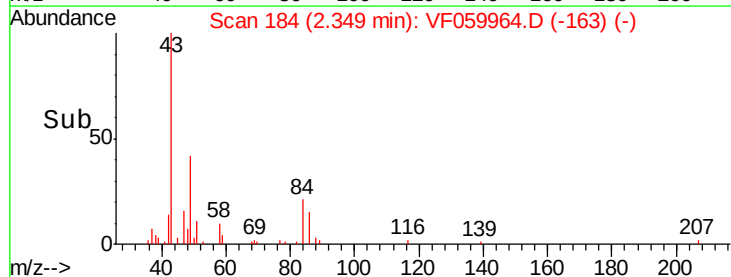
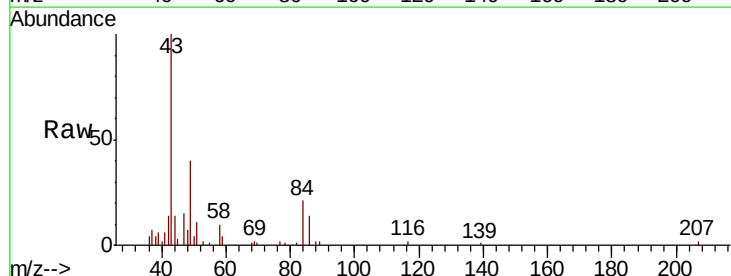
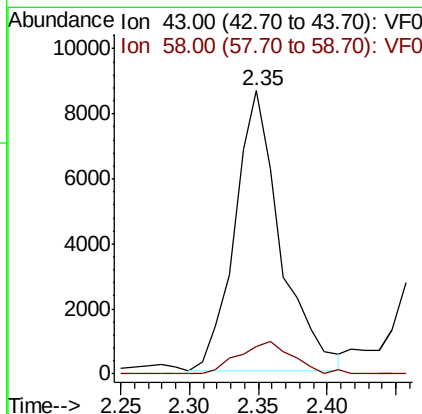
RT: 2.35 min Scan# 184

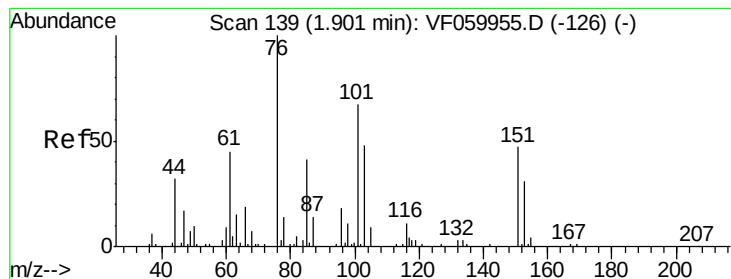
Delta R.T. 0.00 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Tgt Ion:	43	Resp:	19898
Ion	Ratio	Lower	Upper
43	100		
58	9.9	8.1	12.1





#17

Carbon Disulfide

Concen: 9.64 ug/l

RT: 1.89 min Scan# 137

Delta R.T. -0.02 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT3-2018

Tot Ion: 76 Resp: 25169

Ion Ratio Lower Upper

76 100

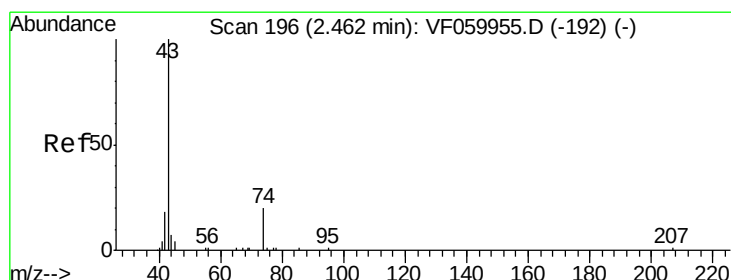
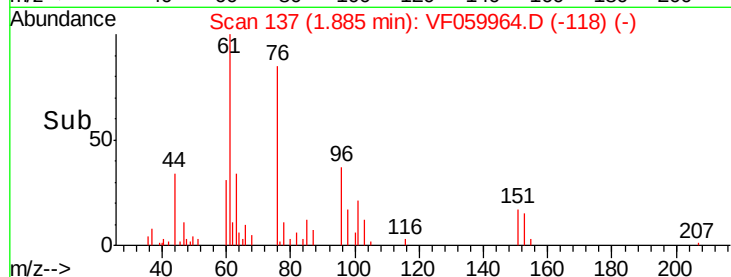
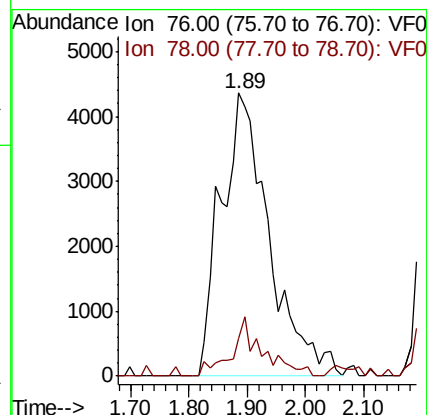
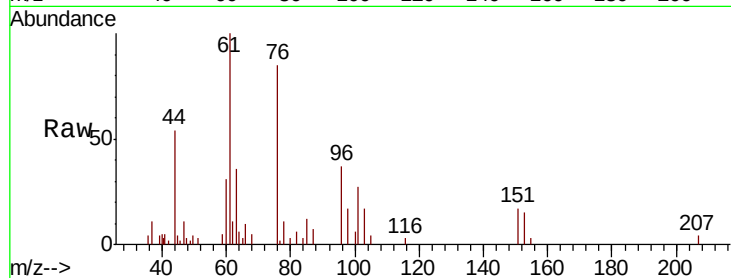
78 13.1 11.4 17.0

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#18

Methyl Acetate

Concen: 9.85 ug/l

RT: 2.47 min Scan# 196

Delta R.T. 0.00 min

Lab File: VF059964.D

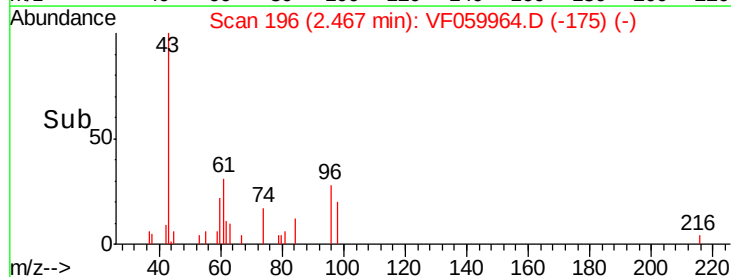
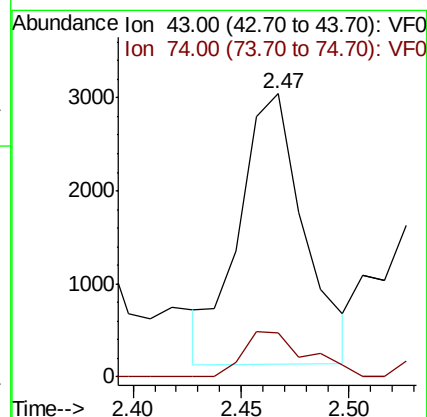
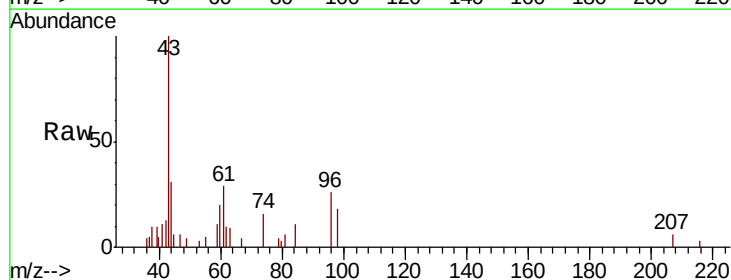
Acq: 15 Aug 2018 1:09

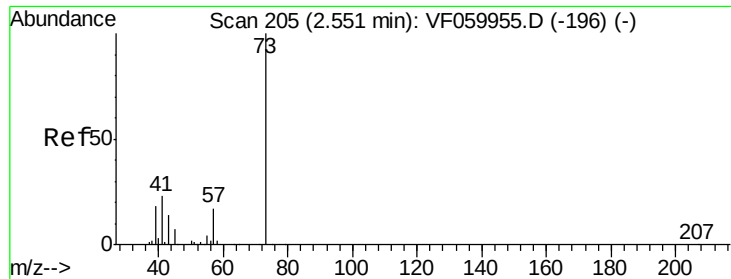
Tgt Ion: 43 Resp: 6115

Ion Ratio Lower Upper

43 100

74 15.6 14.3 21.5





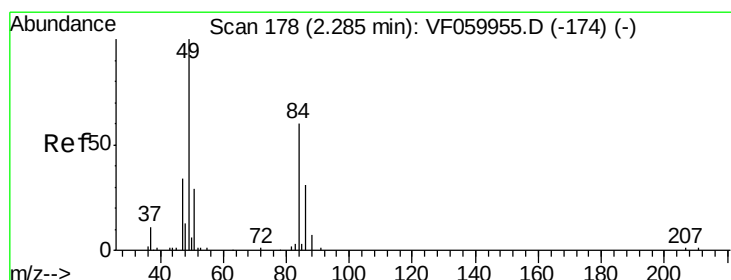
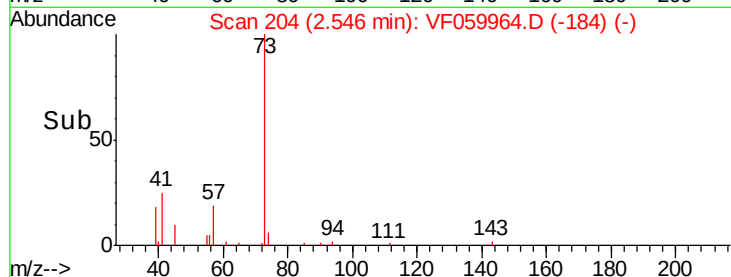
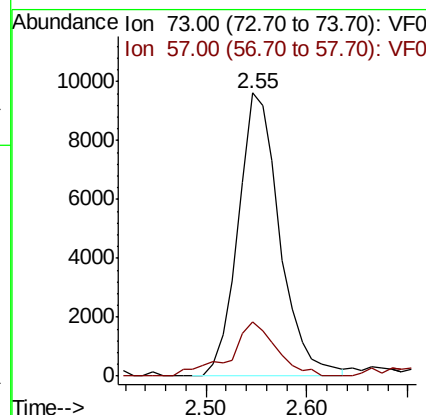
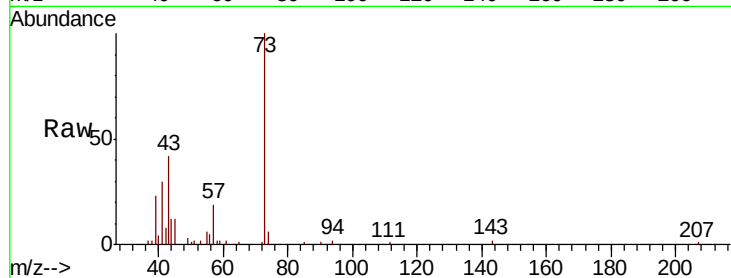
#19
Methvl tert-butvl Ether
Concen: 9.42 ug/l
RT: 2.55 min Scan# 204
Delta R.T. -0.01 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT3-2018

Tot Ion	73	Resp	27570
Ion Ratio	Lower	Upper	
73	100		
57	19.1	14.0	21.0

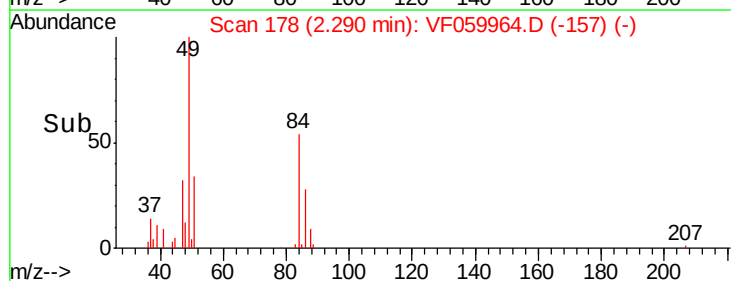
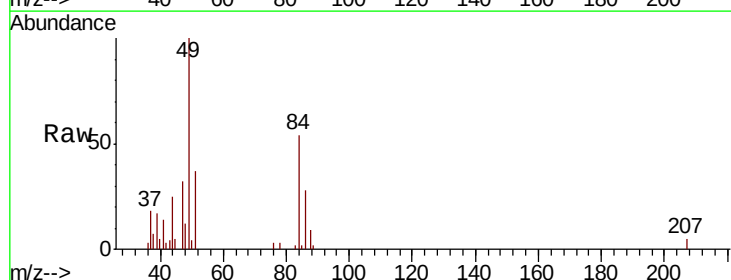
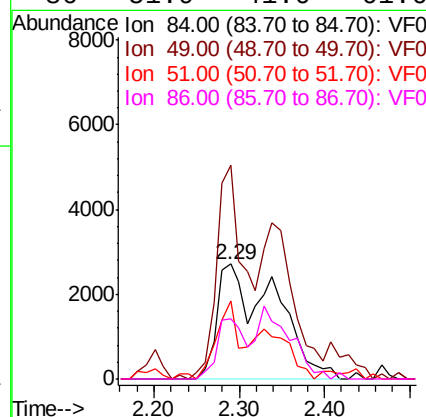
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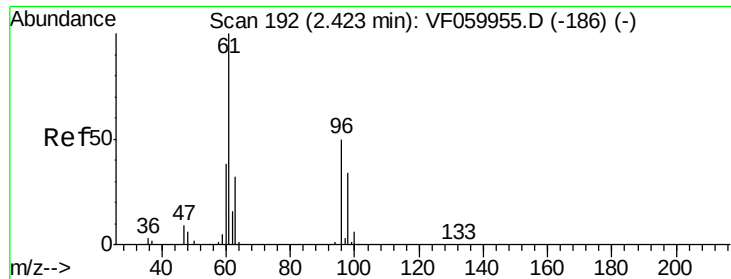
apatel
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#20
Methylene Chloride
Concen: 9.47 ug/l m
RT: 2.29 min Scan# 178
Delta R.T. 0.01 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Tgt Ion	84	Resp	12865
Ion Ratio	Lower	Upper	
84	100		
49	185.5	134.8	202.2
51	67.9	39.8	59.6#
86	51.9	41.0	61.6





#21

trans-1,2-Dichloroethene

Concen: 10.11 ug/l

RT: 2.43 min Scan# 192

Delta R.T. 0.00 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Instrument :

MSVOA_F

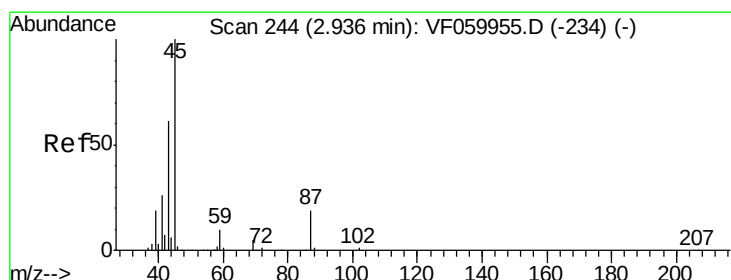
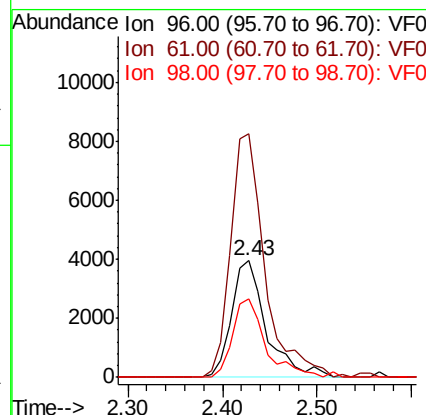
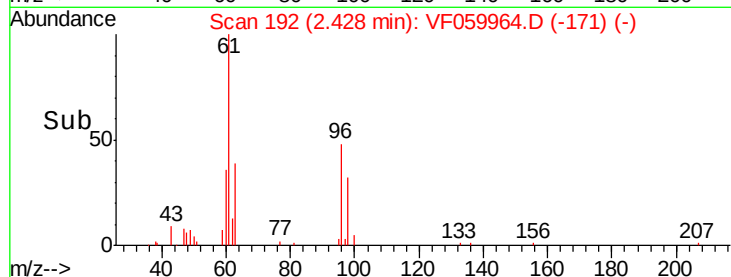
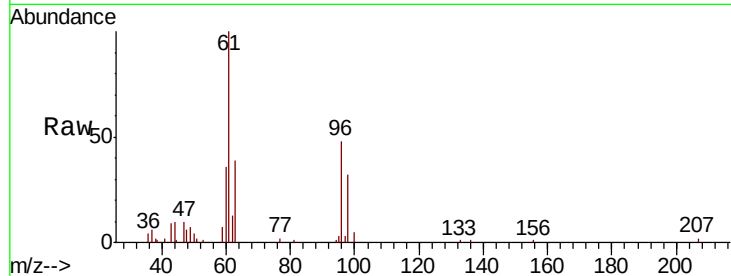
ClientSampleId :

LOQ-SOIL-02-QT3-2018

Tot Ion:	96	Resp:	10020
Ion	Ratio	Lower	Upper
96	100		
61	208.7	159.5	239.3
98	67.7	53.8	80.6

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#22

Diisopropyl ether

Concen: 9.79 ug/l

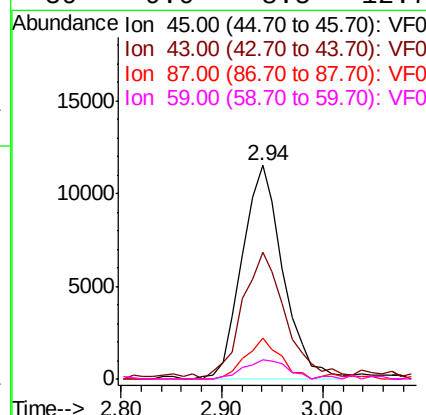
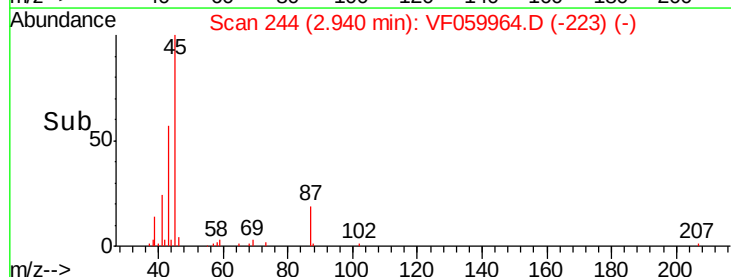
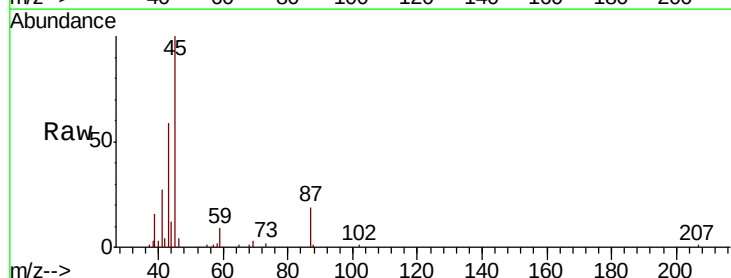
RT: 2.94 min Scan# 244

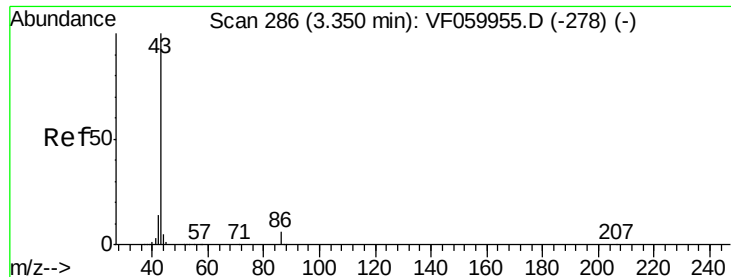
Delta R.T. 0.00 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Tgt Ion:	45	Resp:	32642
Ion	Ratio	Lower	Upper
45	100		
43	59.0	48.7	73.1
87	19.1	15.3	22.9
59	9.0	8.5	12.7





#23

Vinyl Acetate

Concen: 48.90 ug/l

RT: 3.34 min Scan# 285

Delta R.T. -0.01 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT3-2018

Tot Ion: 43 Resp: 80958

Ion Ratio Lower Upper

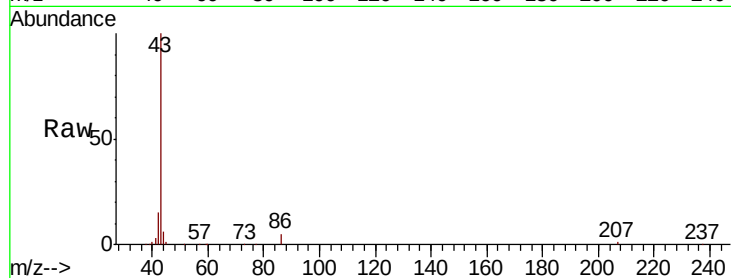
43 100

86 4.6 4.9 7.3#

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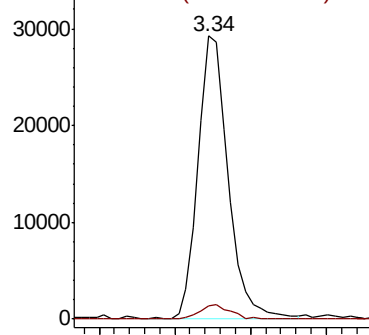
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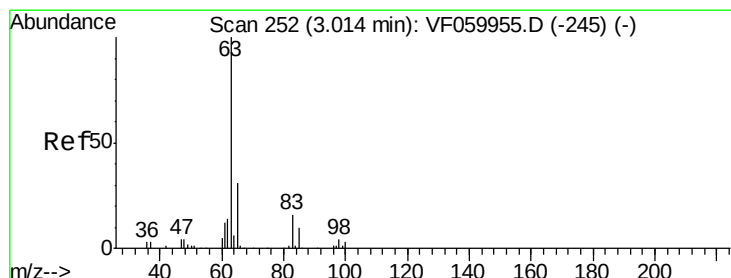
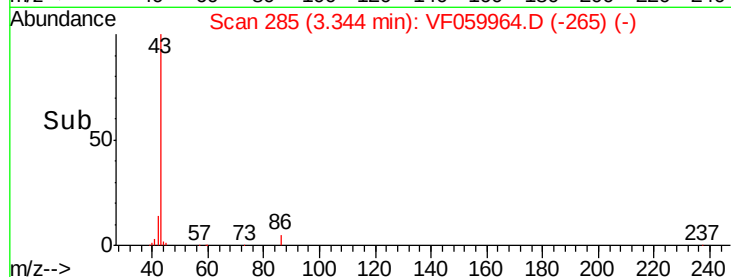


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



Time-->



#24

1,1-Dichloroethane

Concen: 10.16 ug/l

RT: 3.02 min Scan# 252

Delta R.T. 0.00 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

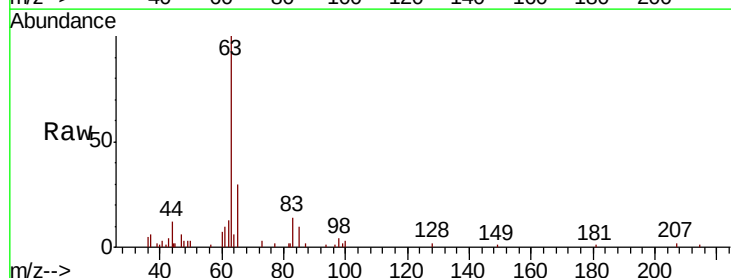
Tgt Ion: 63 Resp: 23953

Ion Ratio Lower Upper

63 100

98 4.4 2.1 6.2

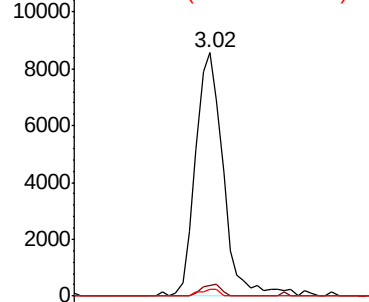
100 3.0 1.7 5.1



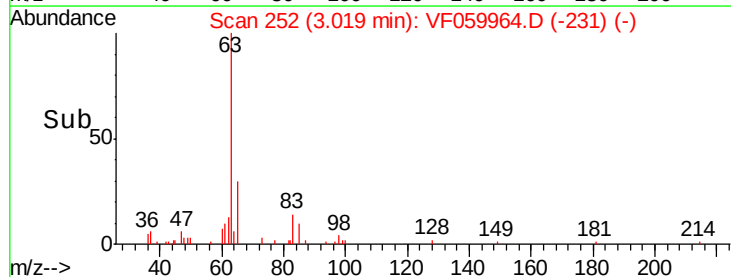
Abundance Ion 63.00 (62.70 to 63.70): VF0

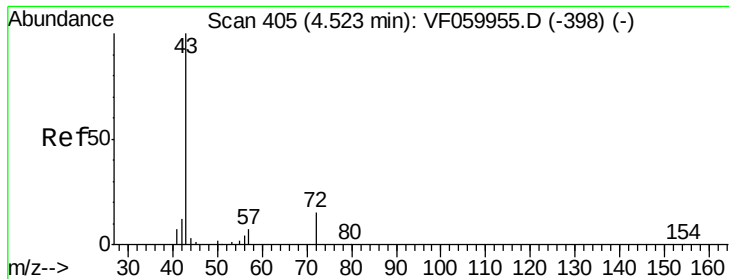
Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



Time-->





#25

2-Butanone

Concen: 47.87 ug/l

RT: 4.53 min Scan# 405

Delta R.T. 0.00 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT3-2018

Tot Ion: 43 Resp: 21608

Ion Ratio Lower Upper

43 100

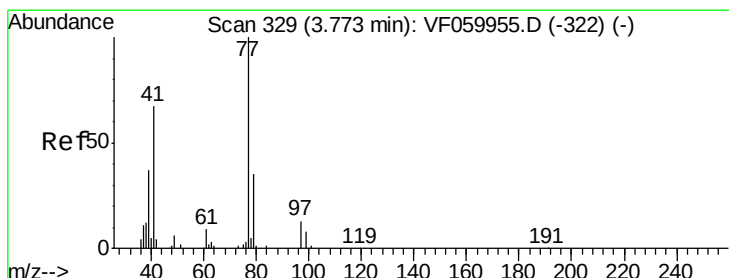
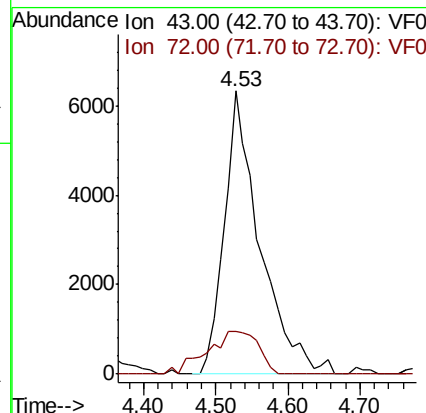
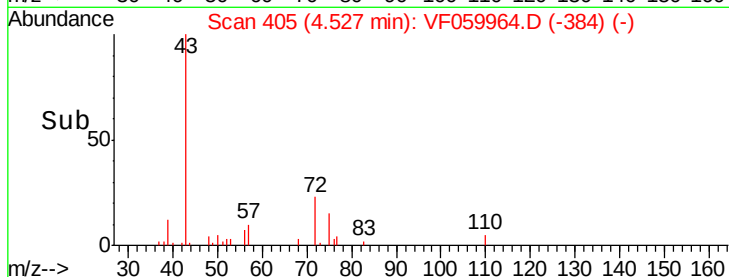
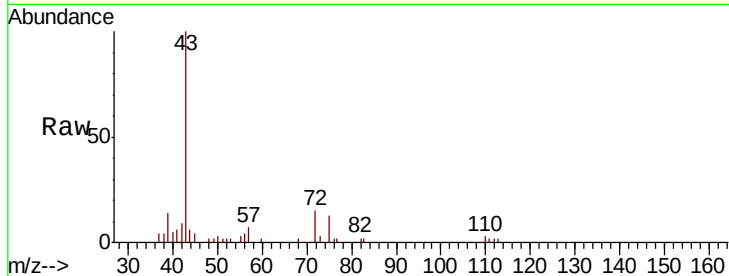
72 14.9 14.6 22.0

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#26

2,2-Dichloropropane

Concen: 9.77 ug/l

RT: 3.79 min Scan# 330

Delta R.T. 0.01 min

Lab File: VF059964.D

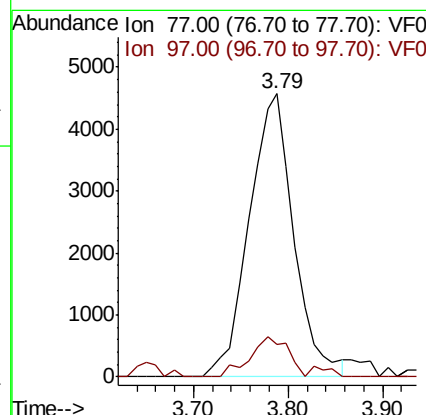
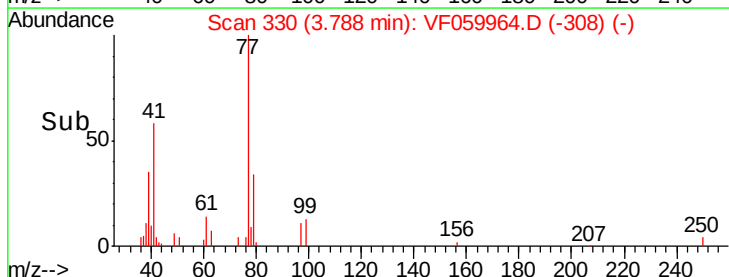
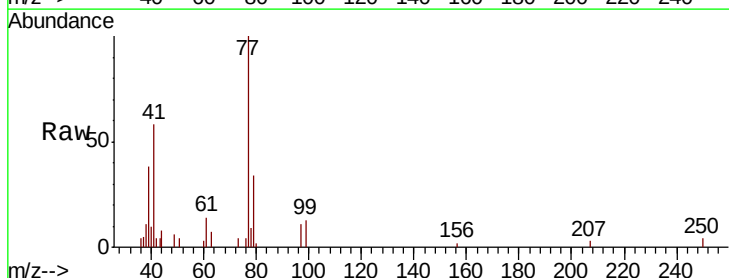
Acq: 15 Aug 2018 1:09

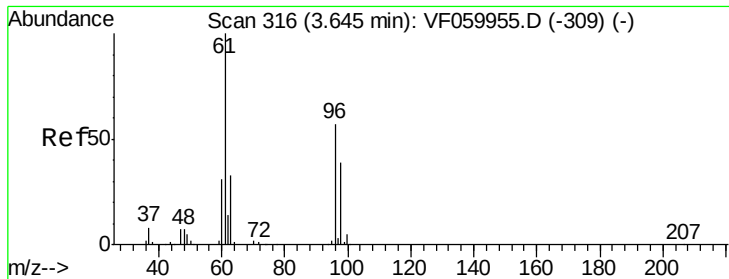
Tgt Ion: 77 Resp: 14988

Ion Ratio Lower Upper

77 100

97 11.4 6.6 19.7





#27

cis-1,2-Dichloroethene

Concen: 9.72 ug/l

RT: 3.66 min Scan# 317

Delta R.T. 0.01 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Instrument :

MSVOA_F

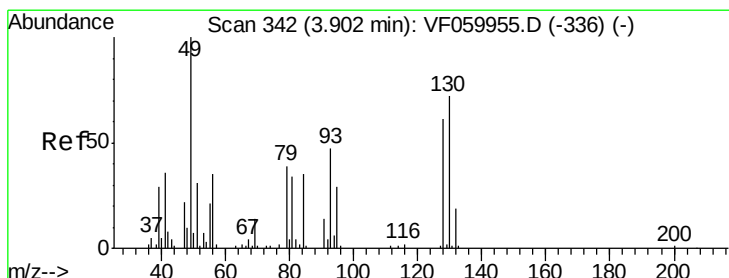
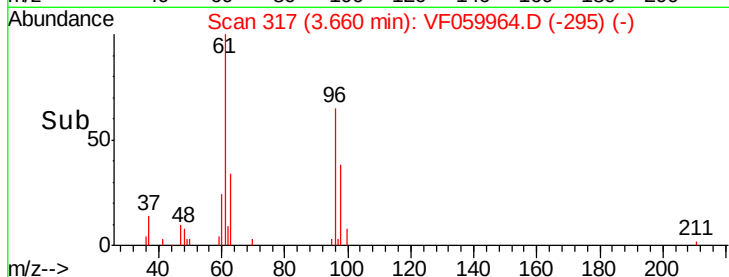
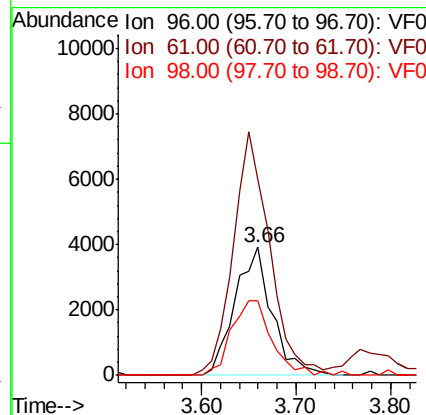
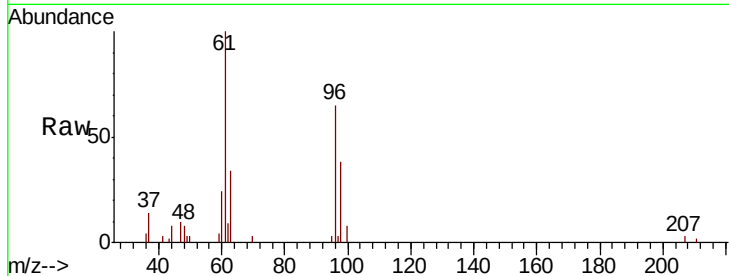
ClientSampleId :

LOQ-SOIL-02-QT3-2018

Tot Ion:	96	Resp:	10645
Ion Ratio	Lower	Upper	
96	100		
61	153.5	0.0	349.4
98	58.6	0.0	134.6

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#28

Bromochloromethane

Concen: 10.20 ug/l

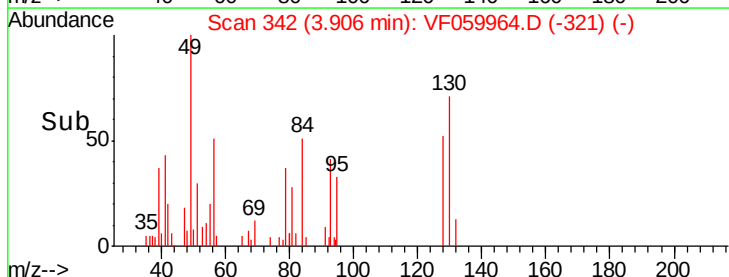
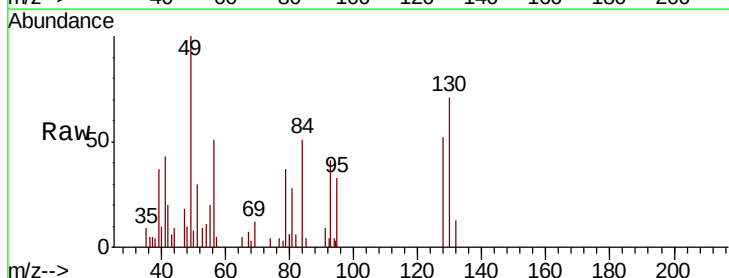
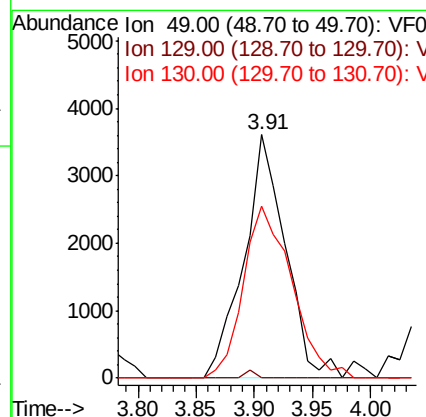
RT: 3.91 min Scan# 342

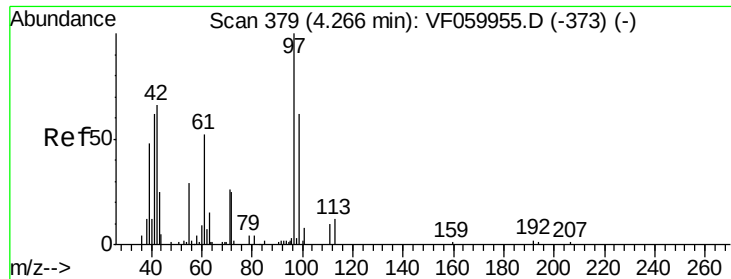
Delta R.T. 0.00 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Tgt Ion:	49	Resp:	8951
Ion Ratio	Lower	Upper	
49	100		
129	0.0	0.0	4.2
130	70.7	58.1	87.1





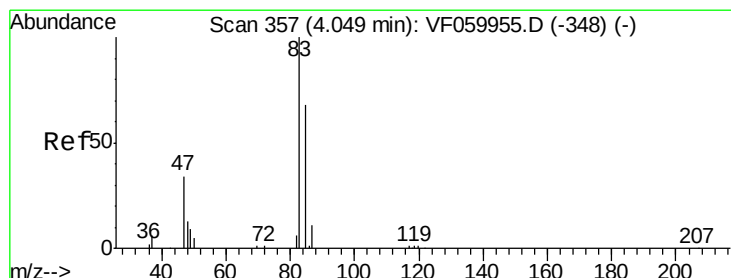
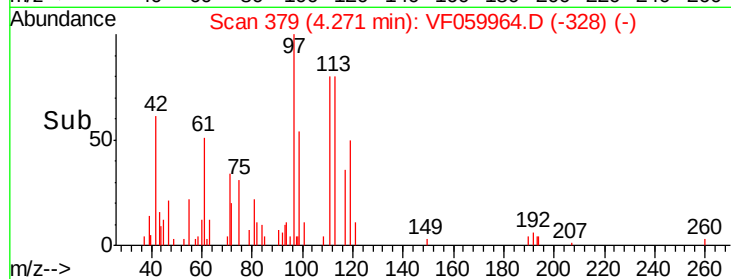
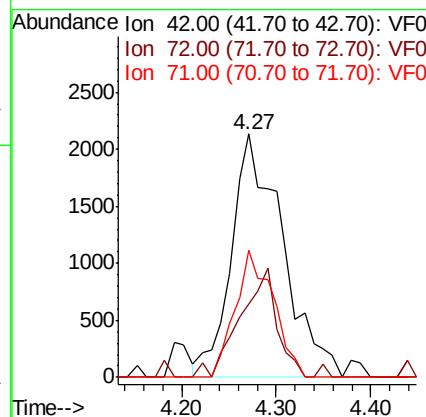
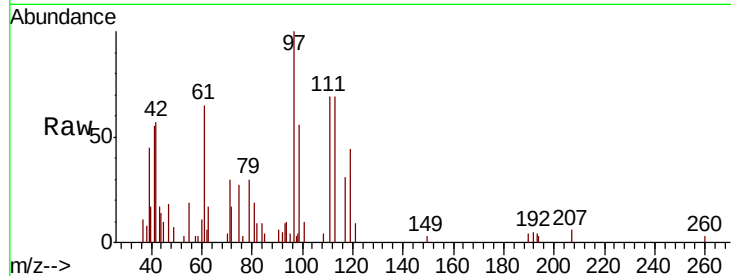
#29
Tetrahydrofuran
Concen: 51.74 ug/l
RT: 4.27 min Scan# 379
Delta R.T. 0.00 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
42	100		
72	32.3	27.7	41.5
71	38.8	28.2	42.4

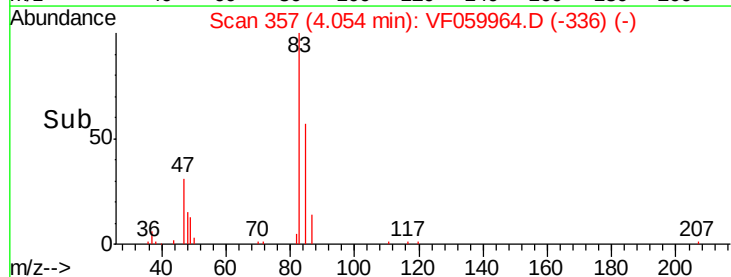
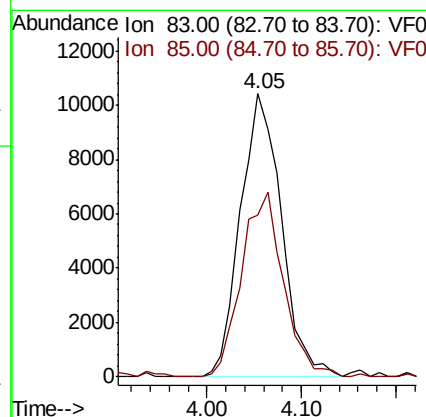
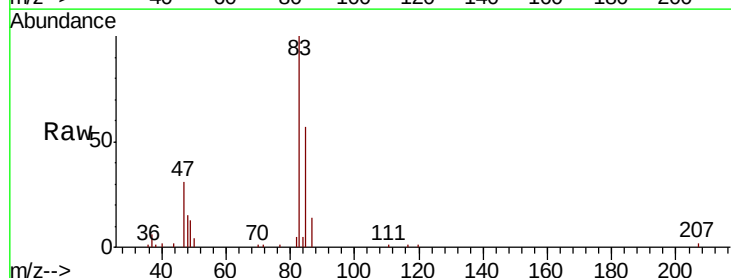
Manual Integrations
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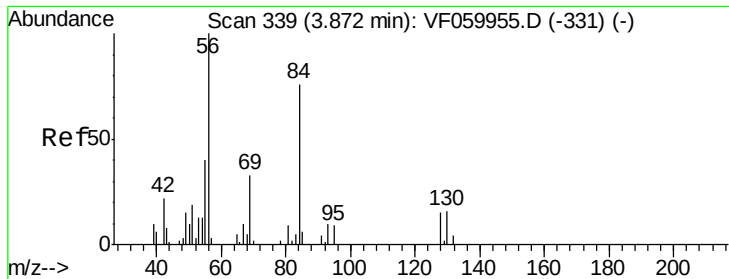
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#30
Chloroform
Concen: 9.70 ug/l
RT: 4.05 min Scan# 357
Delta R.T. 0.00 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Tgt Ion	Ratio	Lower	Upper
83	100		
85	57.2	54.4	81.6





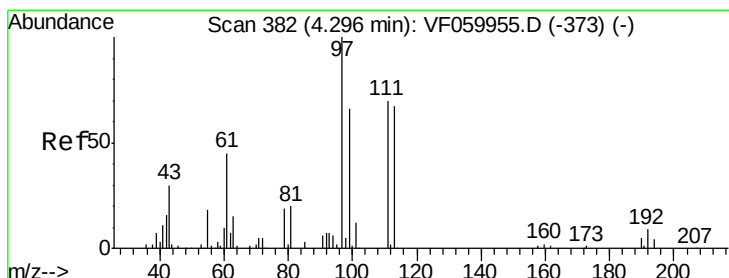
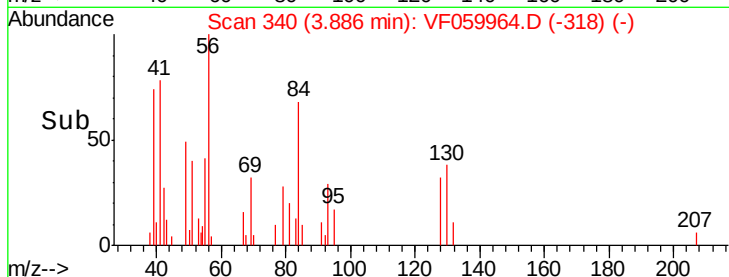
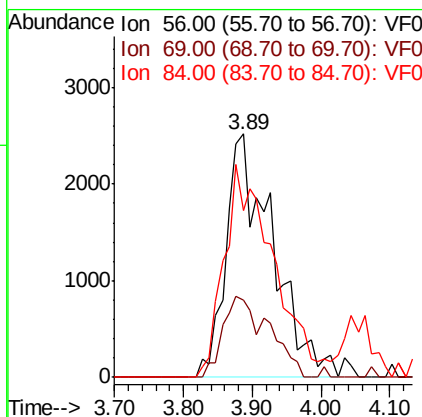
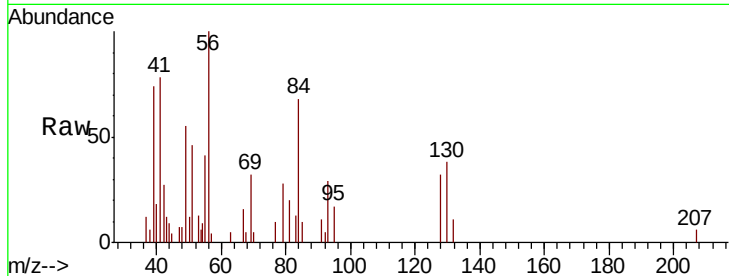
#31
Cyclohexane
Concen: 9.97 ug/l
RT: 3.89 min Scan# 340
Delta R.T. 0.01 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
56	100		
69	31.9	26.2	39.2
84	68.3	61.0	91.4

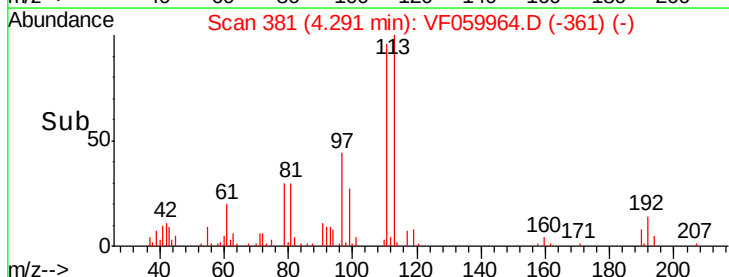
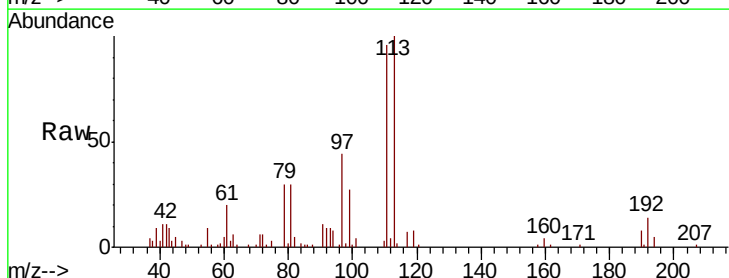
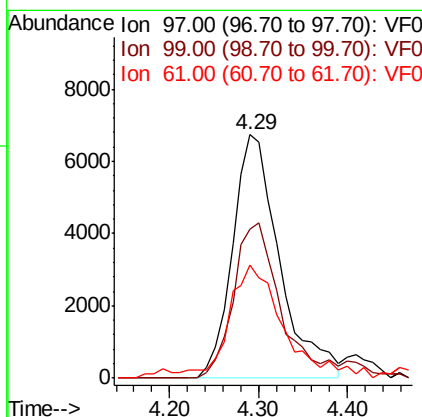
Manual Integrations
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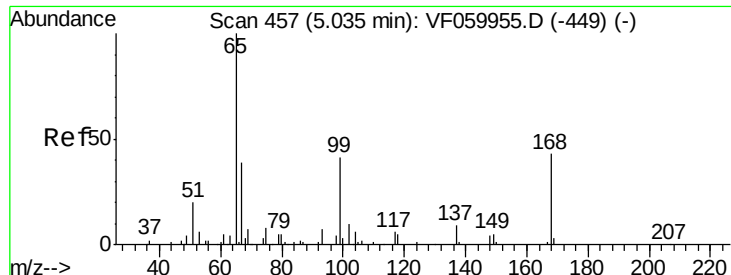
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#32
1,1,1-Trichloroethane
Concen: 9.31 ug/l
RT: 4.29 min Scan# 381
Delta R.T. -0.01 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Tgt Ion	Ratio	Lower	Upper
97	100		
99	61.2	53.0	79.4
61	46.3	36.6	55.0





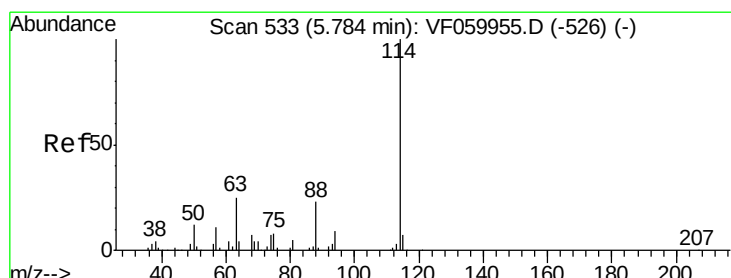
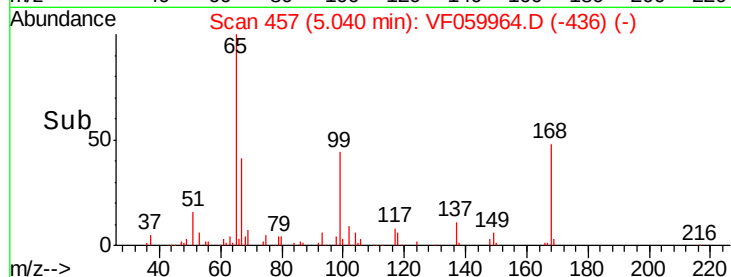
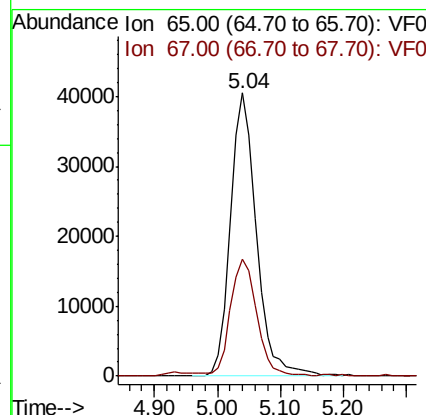
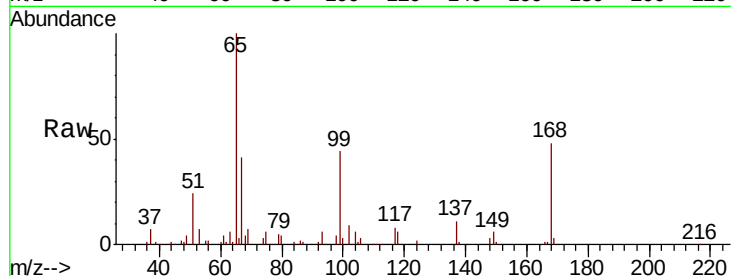
#33
 1,2-Dichloroethane-d4
 Concen: 51.36 ug/l
 RT: 5.04 min Scan# 457
 Delta R.T. 0.00 min
 Lab File: VF059964.D
 Acq: 15 Aug 2018 1:09

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

Tot Ion	Ratio	Resp	Lower	Upper
65	100	115486		
67	41.4	0.0	87.4	

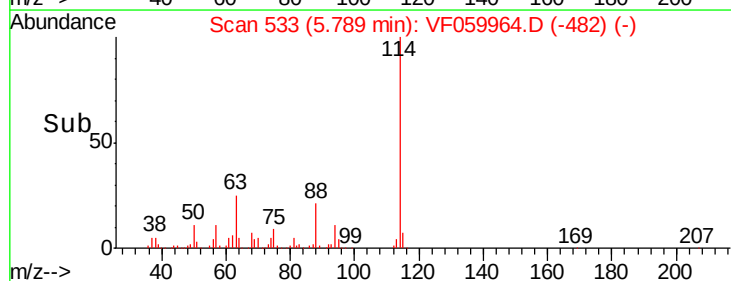
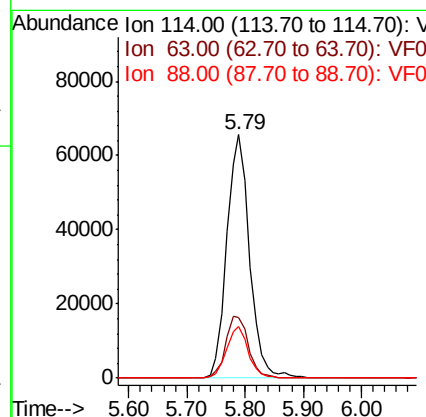
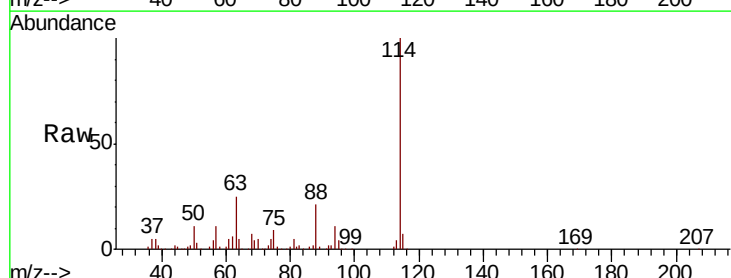
Manual Integrations
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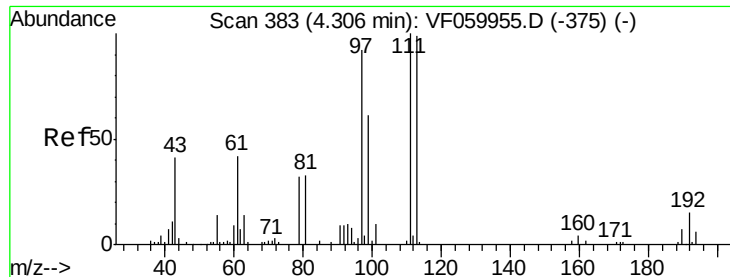
apatel
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#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.79 min Scan# 533
 Delta R.T. 0.00 min
 Lab File: VF059964.D
 Acq: 15 Aug 2018 1:09

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	177908		
63	24.7	0.0	50.2	
88	21.3	0.0	46.8	





#35

Dibromofluoromethane

Concen: 51.48 ug/l

RT: 4.32 min Scan# 384

Delta R.T. 0.01 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT3-2018

Tot Ion:113 Resp: 91779

Ion Ratio Lower Upper

113 100

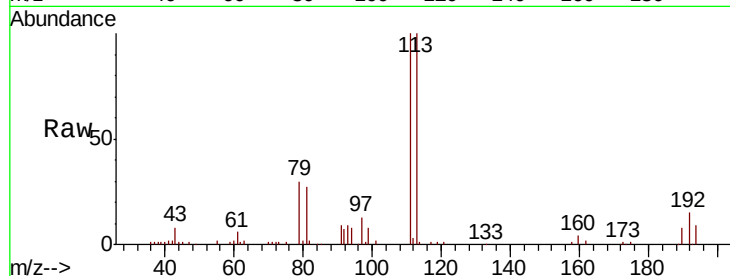
111 99.6 80.6 121.0

192 15.0 11.7 17.5

Manual Integrations
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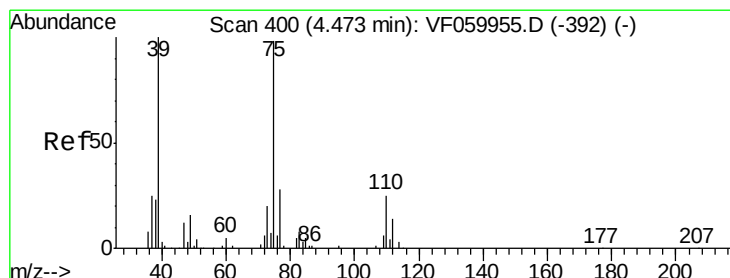
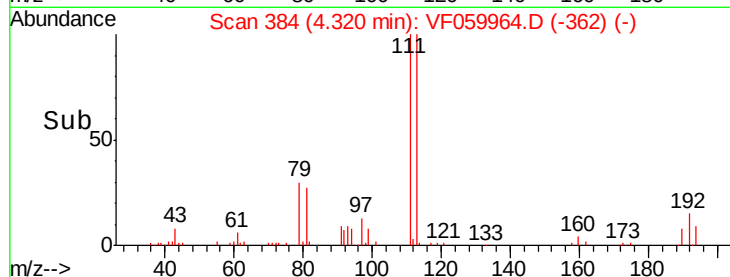
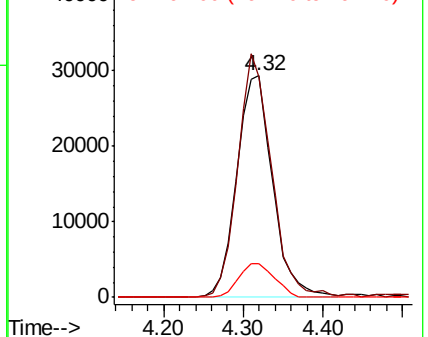
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Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 9.35 ug/l

RT: 4.48 min Scan# 400

Delta R.T. 0.00 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

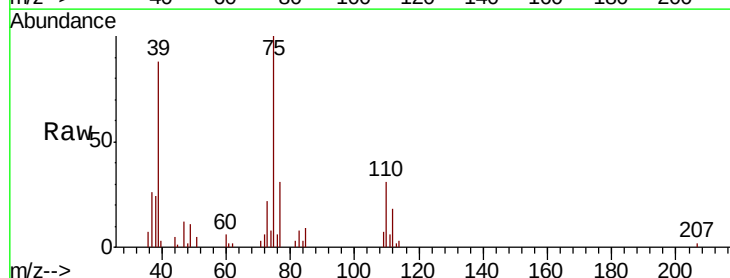
Tgt Ion: 75 Resp: 18489

Ion Ratio Lower Upper

75 100

110 30.9 12.6 37.8

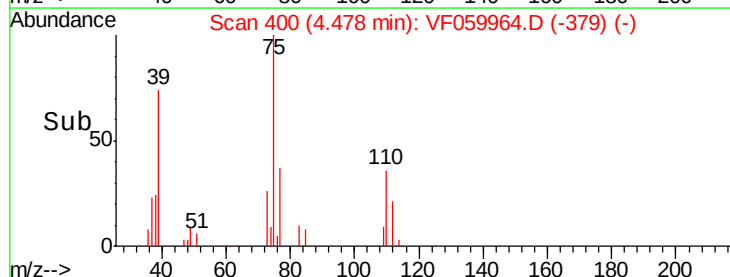
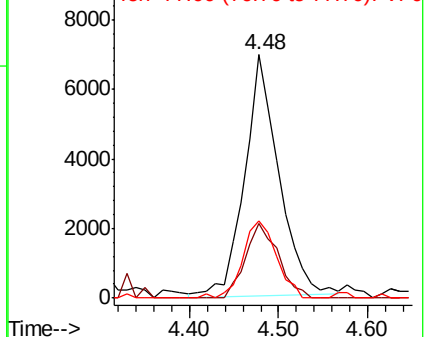
77 31.5 22.7 34.1

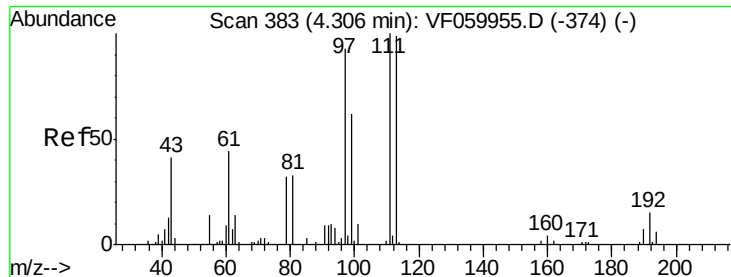


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0





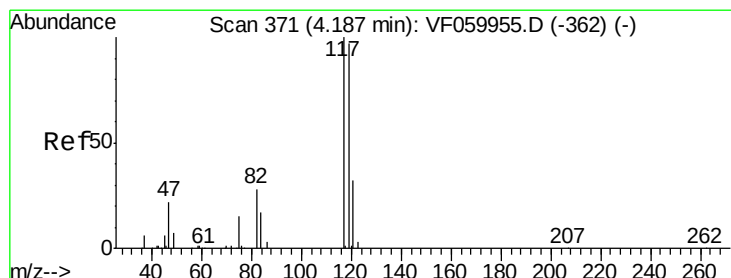
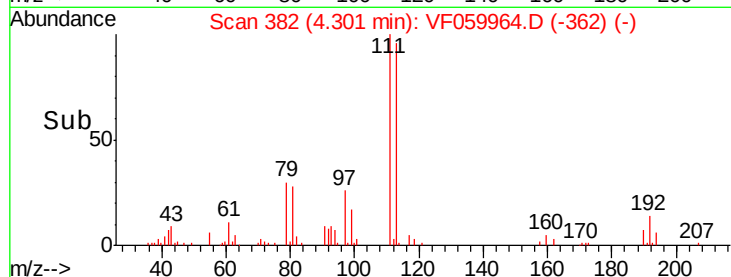
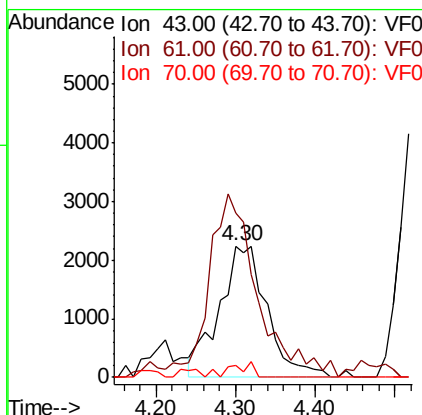
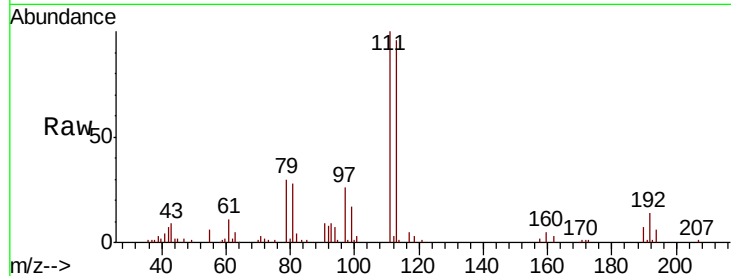
#37
Ethyl Acetate
Concen: 11.10 ug/l
RT: 4.30 min Scan# 382
Delta R.T. -0.01 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
43	100		
61	124.5	84.3	126.5
70	8.7	5.5	8.3

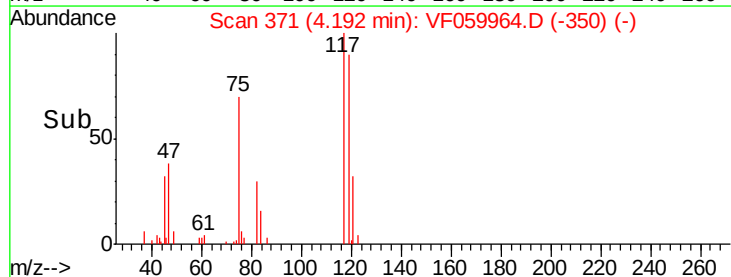
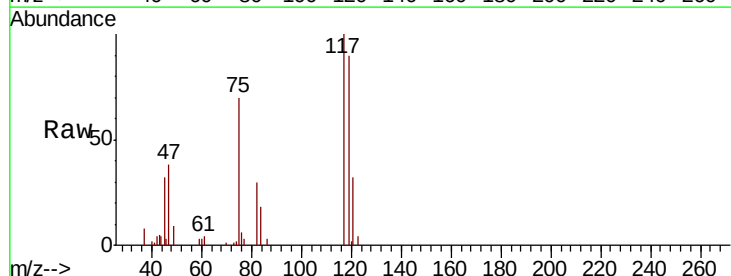
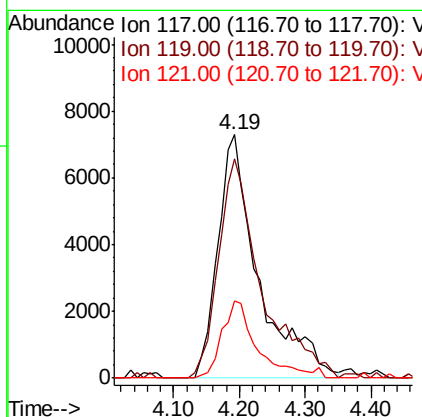
Manual Integrations
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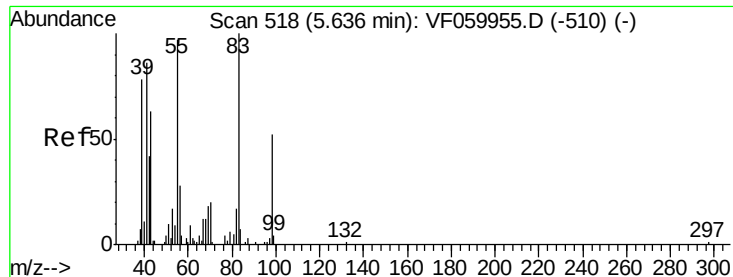
apatel
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#38
Carbon Tetrachloride
Concen: 9.51 ug/l
RT: 4.19 min Scan# 371
Delta R.T. 0.00 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Tgt Ion	Ratio	Lower	Upper
117	100		
119	89.8	76.9	115.3
121	31.7	24.9	37.3





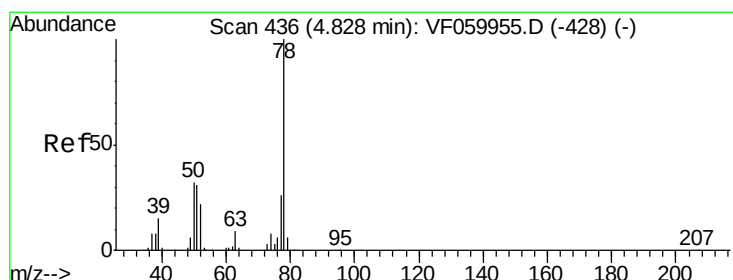
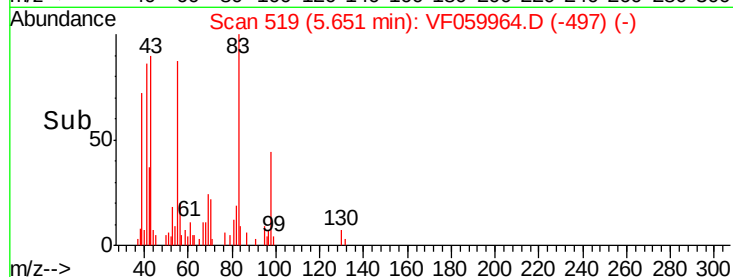
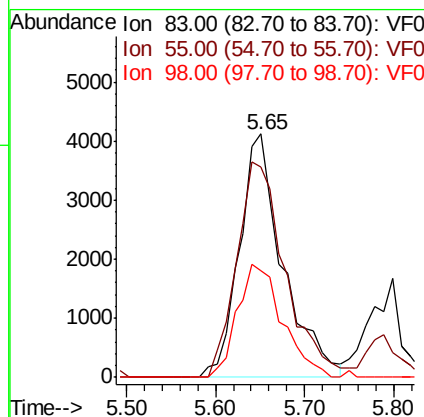
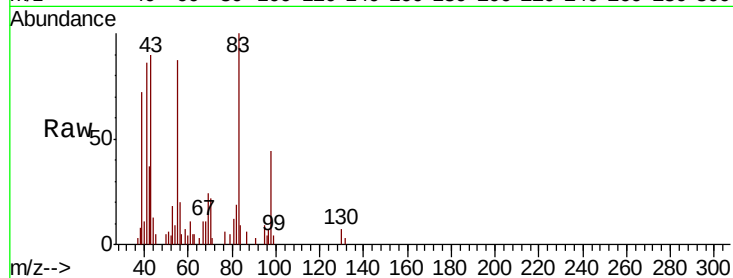
#39
Methylvlcyclohexane
Concen: 9.70 ug/l
RT: 5.65 min Scan# 519
Delta R.T. 0.01 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT3-2018

Tot Ion	83	Resp	13938
Ion Ratio	Lower	Upper	
83	100		
55	86.6	77.4	116.2
98	44.0	41.5	62.3

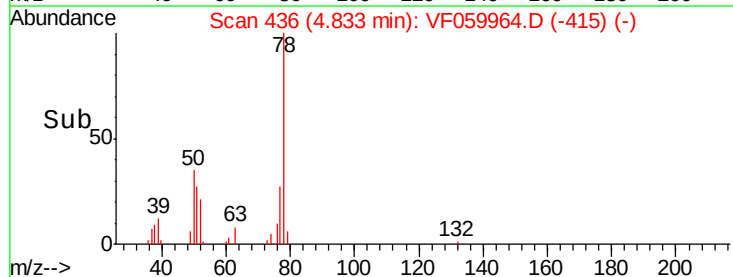
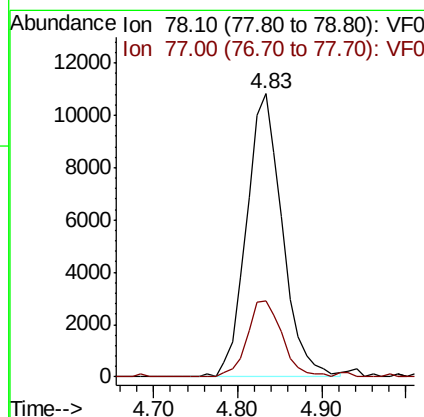
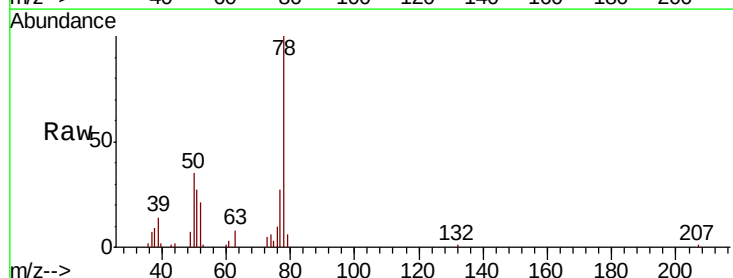
Manual Integrations
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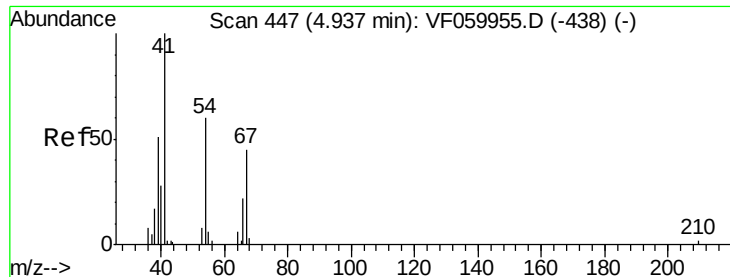
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#40
Benzene
Concen: 9.64 ug/l
RT: 4.83 min Scan# 436
Delta R.T. 0.00 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Tgt Ion	78	Resp	32244
Ion Ratio	Lower	Upper	
78	100		
77	26.7	21.1	31.7





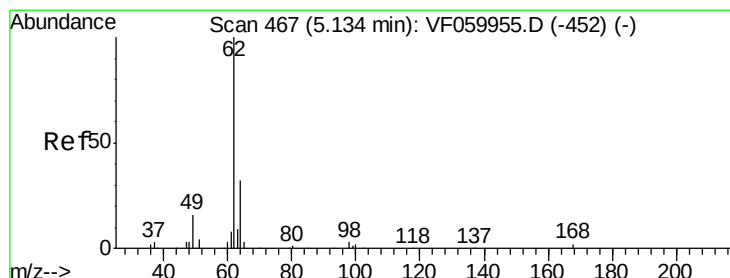
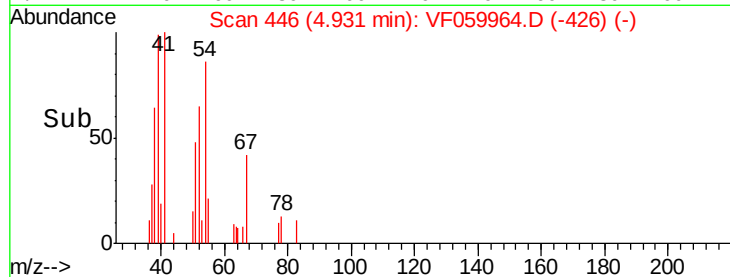
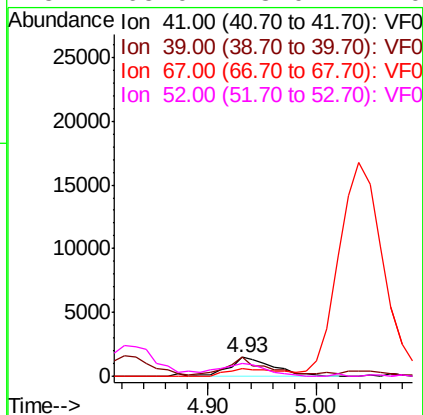
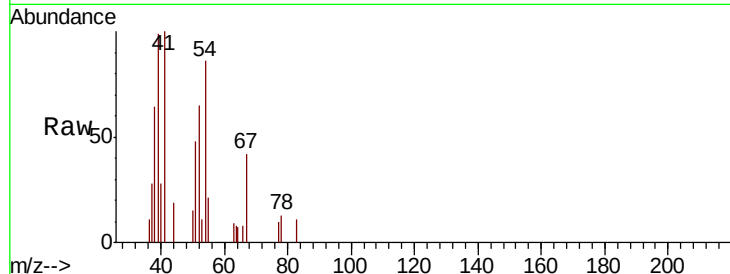
#41
Methacrylonitrile
Concen: 10.10 ug/l
RT: 4.93 min Scan# 446
Delta R.T. -0.01 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT3-2018

Tot Ion:	41	Resp:	4214
Ion	Ratio	Lower	Upper
41	100		
39	98.9	75.7	113.5
67	41.6	36.1	54.1
52	65.0	48.0	72.0

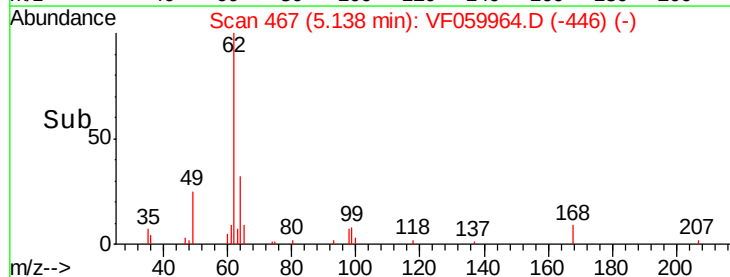
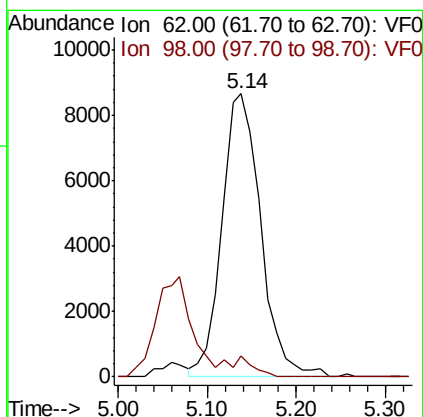
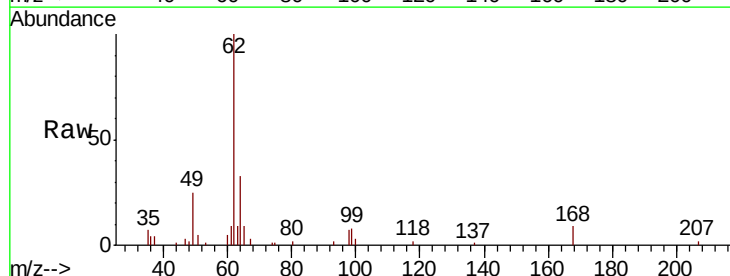
Manual Integrations
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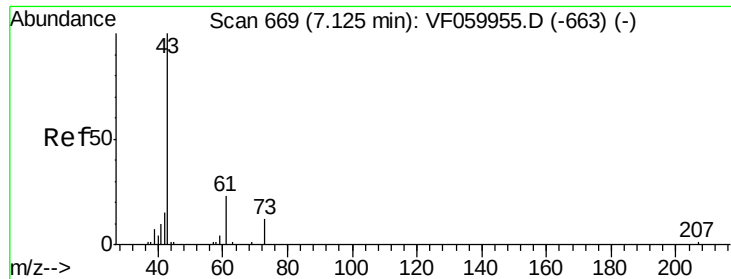
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#42
1,2-Dichloroethane
Concen: 9.94 ug/l
RT: 5.14 min Scan# 467
Delta R.T. 0.00 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Tgt Ion:	62	Resp:	26422
Ion	Ratio	Lower	Upper
62	100		
98	7.3	0.0	5.0#





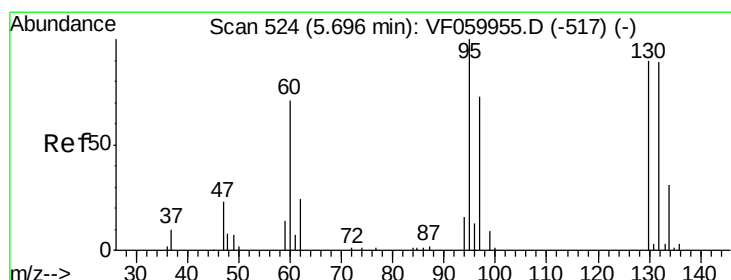
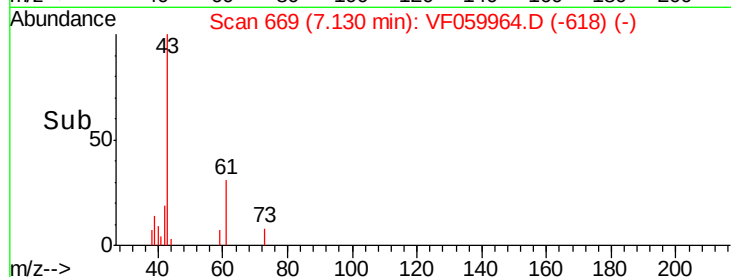
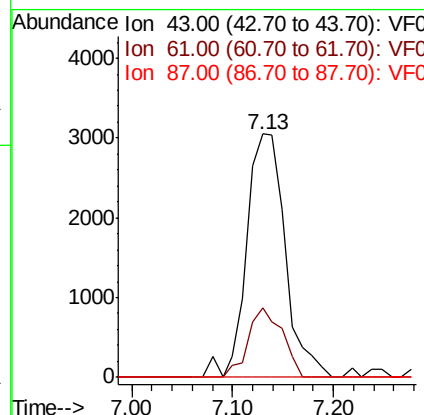
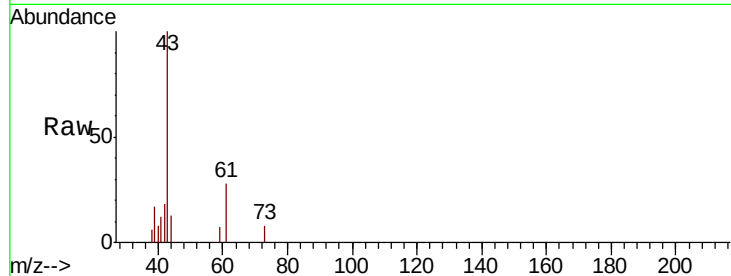
#43
Isopropyl Acetate
Concen: 8.84 ug/l
RT: 7.13 min Scan# 669
Delta R.T. 0.00 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.4	18.6	27.8#
87	0.0	0.0	0.0

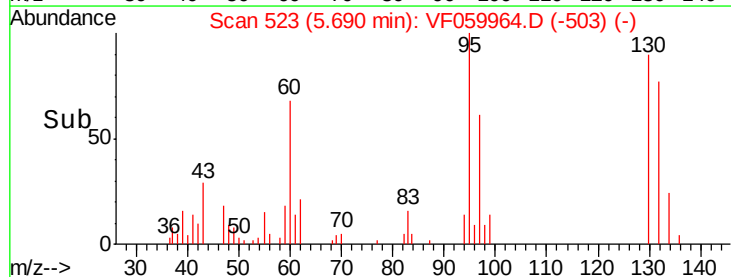
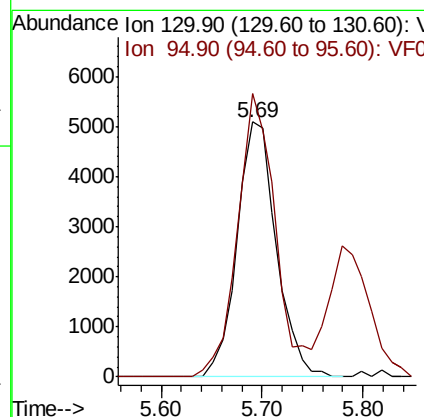
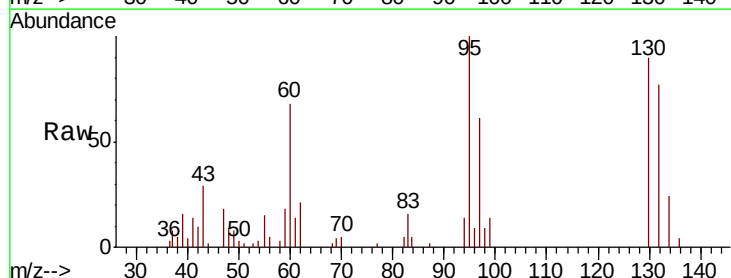
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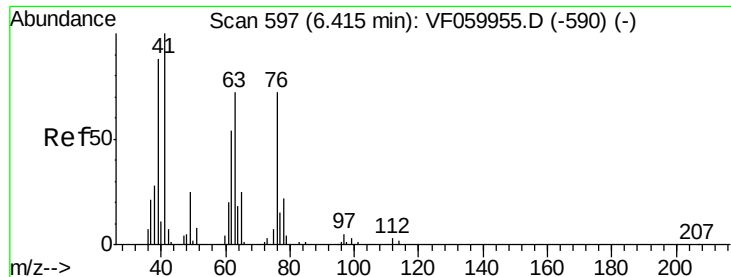
apatel
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#44
Trichloroethene
Concen: 10.66 ug/l
RT: 5.69 min Scan# 523
Delta R.T. -0.01 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Tgt Ion	Ratio	Lower	Upper
130	100		
95	111.1	0.0	222.0





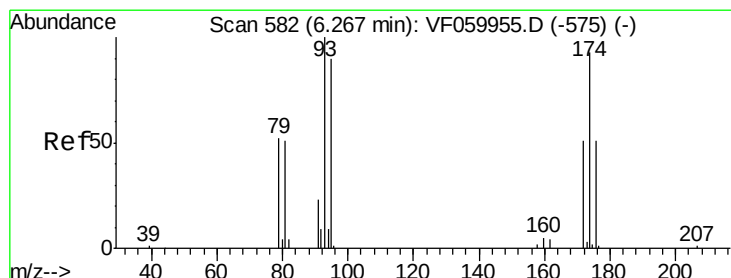
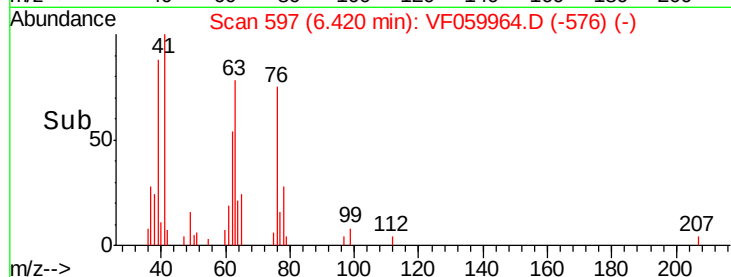
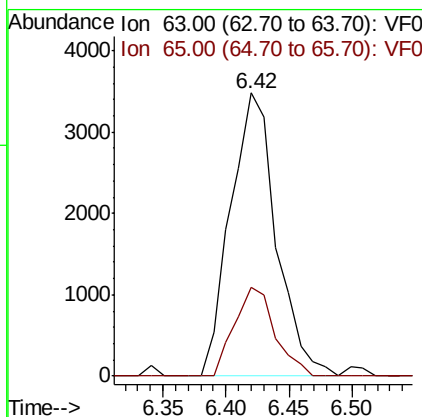
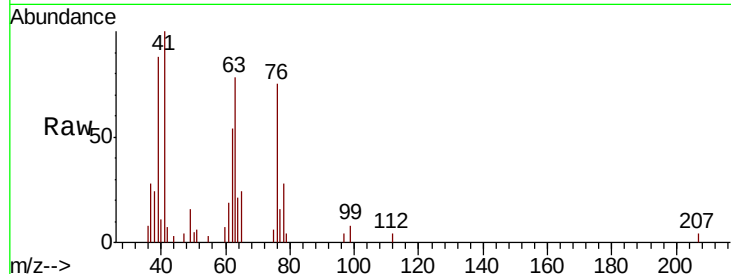
#45
 1,2-Dichloropropane
 Concen: 9.93 ug/l
 RT: 6.42 min Scan# 597
 Delta R.T. 0.00 min
 Lab File: VF059964.D
 Acq: 15 Aug 2018 1:09

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

Tot Ion	Ratio	Resp	Lower	Upper
63	100	8783		
65	31.3		27.8	41.6

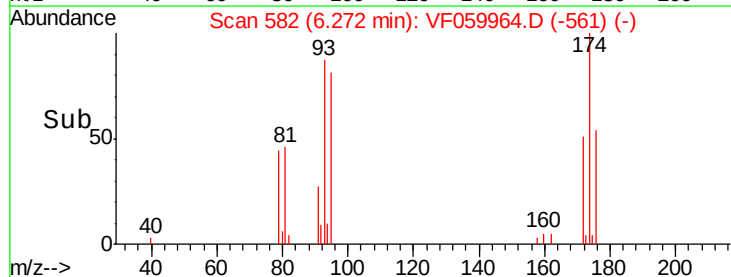
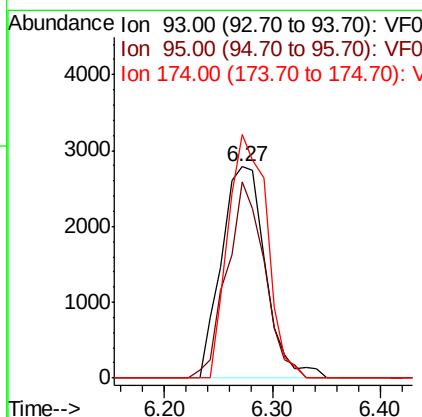
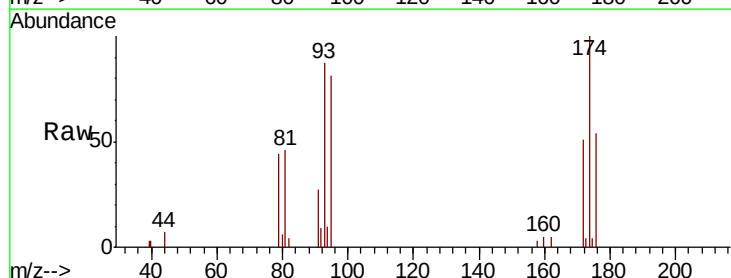
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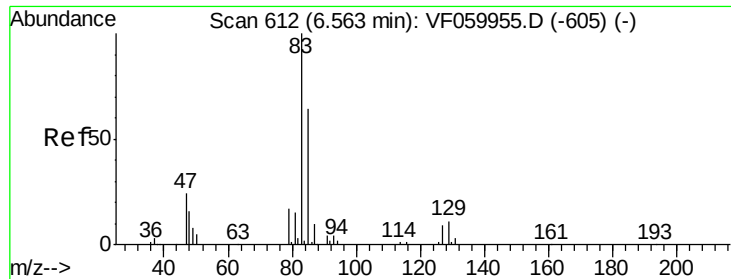
apatel
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#46
 Dibromomethane
 Concen: 9.02 ug/l
 RT: 6.27 min Scan# 582
 Delta R.T. 0.00 min
 Lab File: VF059964.D
 Acq: 15 Aug 2018 1:09

Tgt Ion	Ratio	Resp	Lower	Upper
93	100	7878		
95	93.1		72.4	108.6
174	120.0		75.9	113.9#





#47

Bromodichloromethane

Concen: 9.90 ug/l

RT: 6.57 min Scan# 612

Delta R.T. 0.00 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Instrument :

MSVOA_F

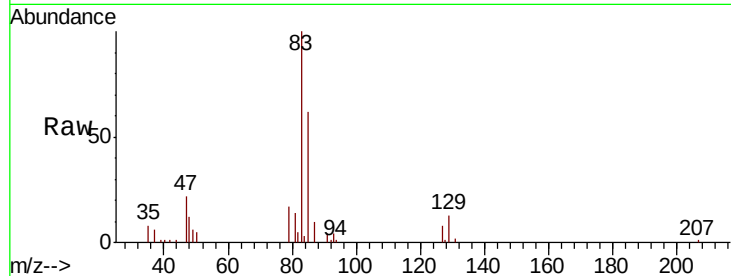
ClientSampleId :

LOQ-SOIL-02-QT3-2018

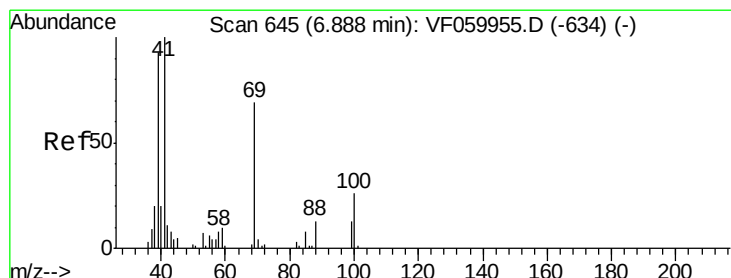
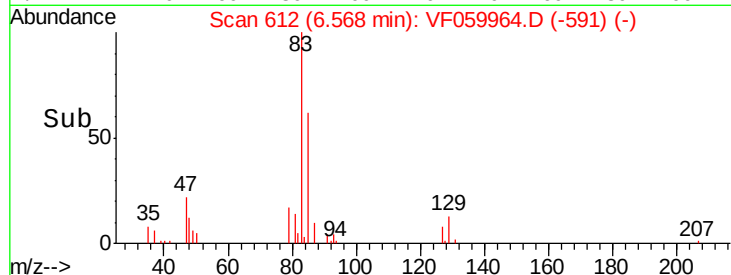
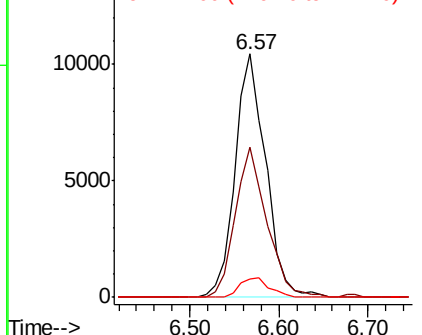
Tot Ion:	83	Resp:	24941
Ion Ratio	Lower	Upper	
83	100		
85	61.8	51.5	77.3
127	7.5	7.5	11.3

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Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0
Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 8.98 ug/l

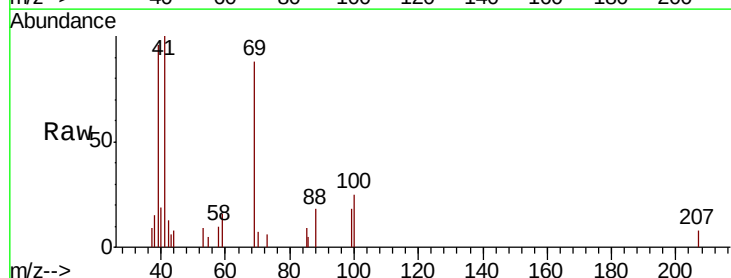
RT: 6.89 min Scan# 645

Delta R.T. 0.00 min

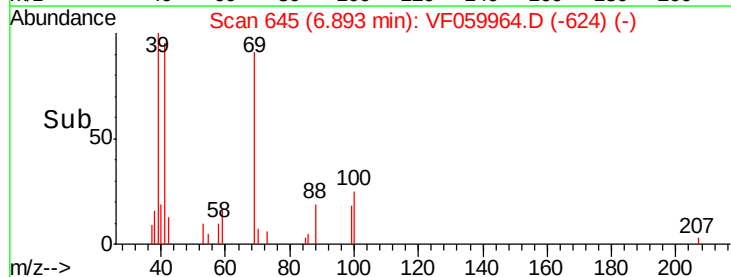
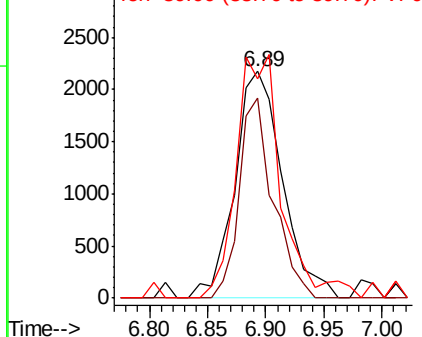
Lab File: VF059964.D

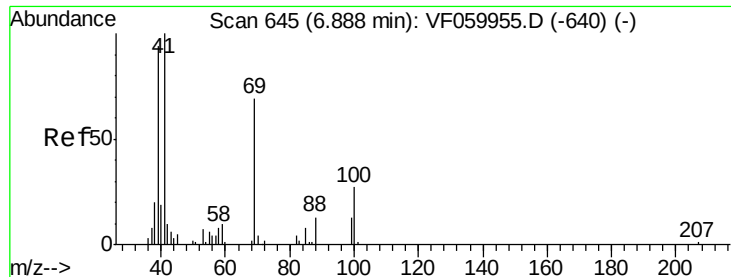
Acq: 15 Aug 2018 1:09

Tgt Ion:	41	Resp:	6169
Ion Ratio	Lower	Upper	
41	100		
69	88.1	54.8	82.2#
39	96.5	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: 208.95 ug/l

RT: 6.88 min Scan# 644

Delta R.T. -0.01 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Instrument :

MSVOA_F

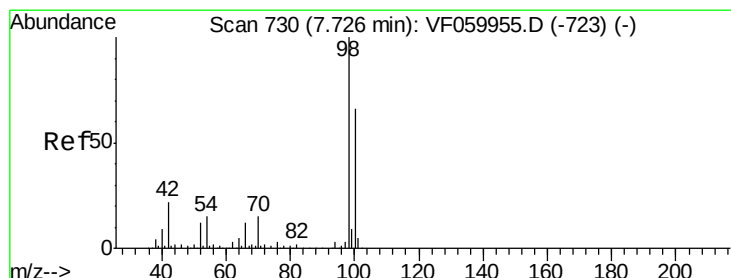
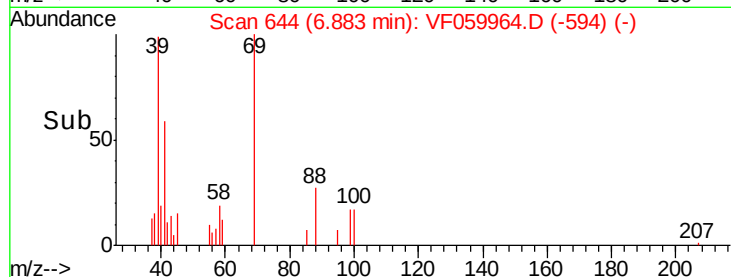
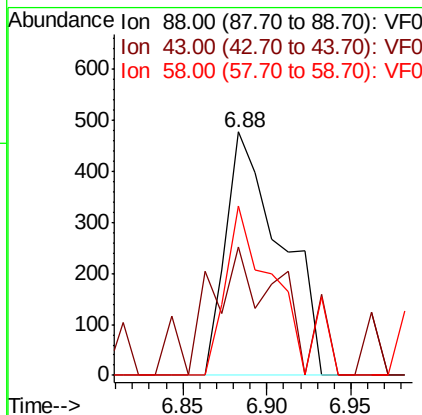
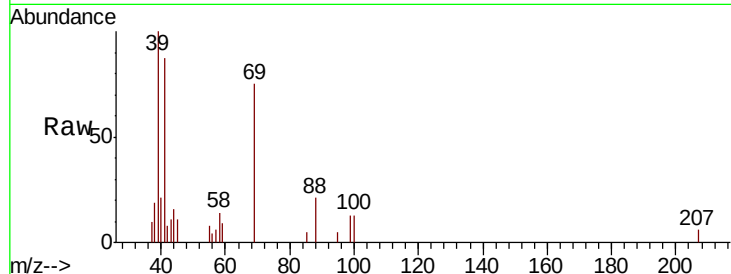
ClientSampleId :

LOQ-SOIL-02-QT3-2018

Tot Ion:	88	Resp:	1085
Ion	Ratio	Lower	Upper
88	100		
43	53.0	47.9	71.9
58	69.8	52.0	78.0

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#50

Toluene-d8

Concen: 49.34 ug/l

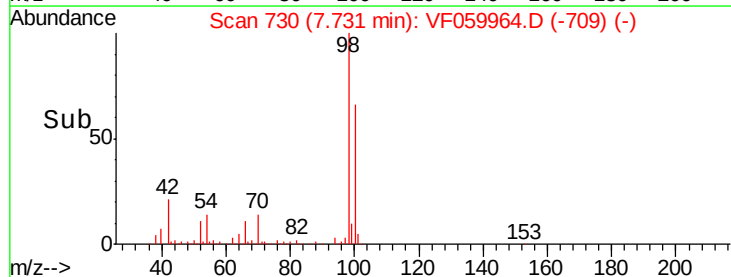
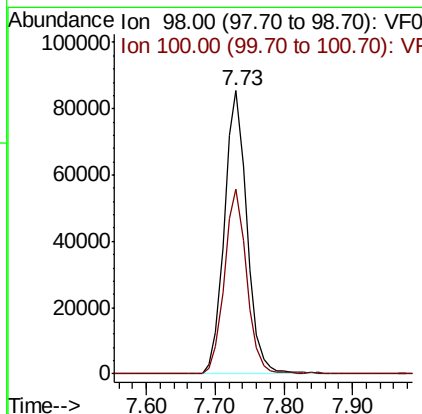
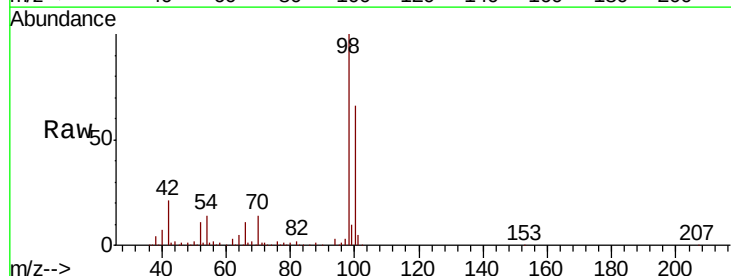
RT: 7.73 min Scan# 730

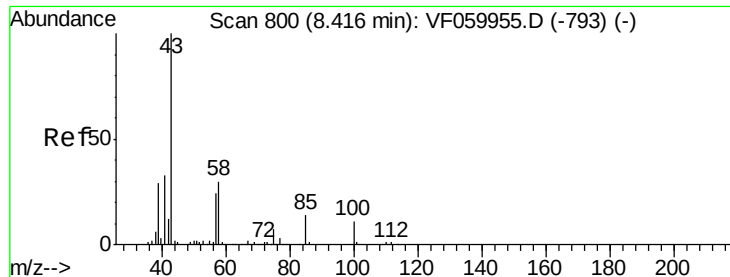
Delta R.T. 0.00 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Tgt Ion:	98	Resp:	193977
Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.9	79.3





#51

4-Methyl-2-Pentanone

Concen: 49.87 ug/l

RT: 8.43 min Scan# 801

Delta R.T. 0.01 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT3-2018

Tot Ion: 43 Resp: 44540

Ion Ratio Lower Upper

43 100

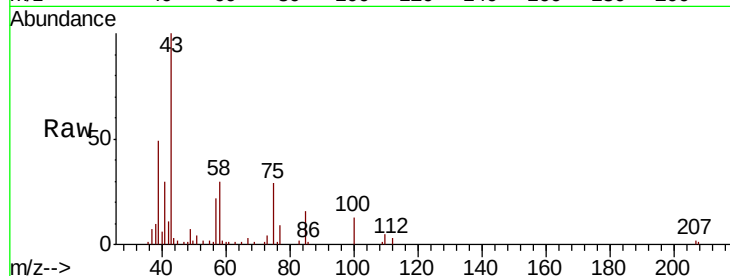
58 30.4 24.2 36.4

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.43

20000

15000

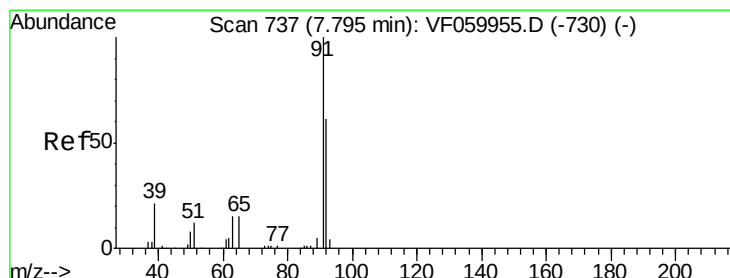
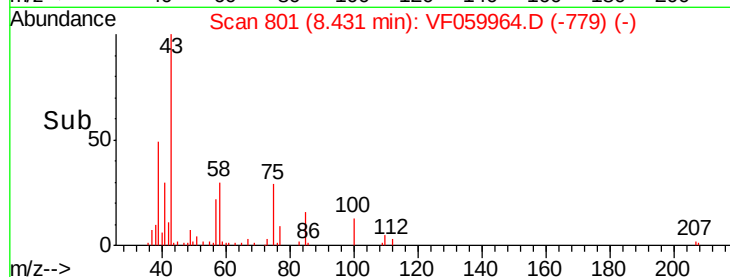
10000

5000

0

8.30 8.40 8.50 8.60

Time-->



#52

Toluene

Concen: 10.04 ug/l

RT: 7.80 min Scan# 737

Delta R.T. 0.00 min

Lab File: VF059964.D

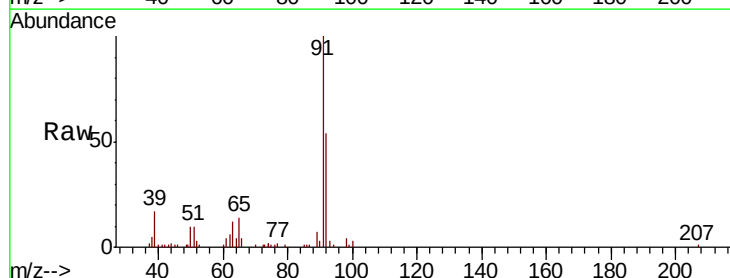
Acq: 15 Aug 2018 1:09

Tgt Ion: 92 Resp: 24884

Ion Ratio Lower Upper

92 100

91 184.2 131.2 196.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.80

20000

15000

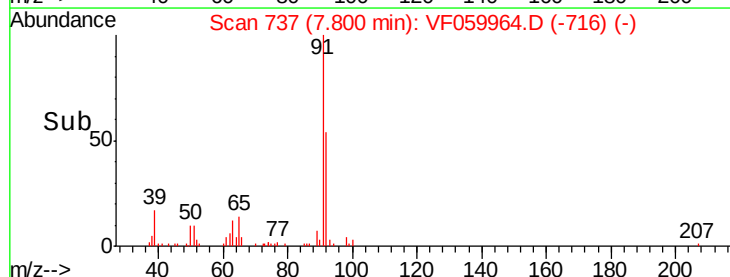
10000

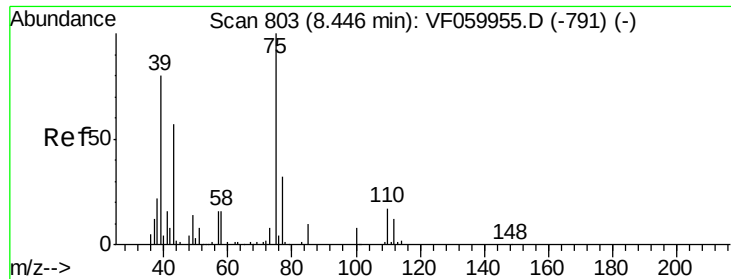
5000

0

7.70 7.80 7.90

Time-->





#53

t-1,3-Dichloropropene

Concen: 9.06 ug/l

RT: 8.44 min Scan# 802

Delta R.T. -0.01 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT3-2018

Tot Ion: 75 Resp: 18663

Ion Ratio Lower Upper

75 100

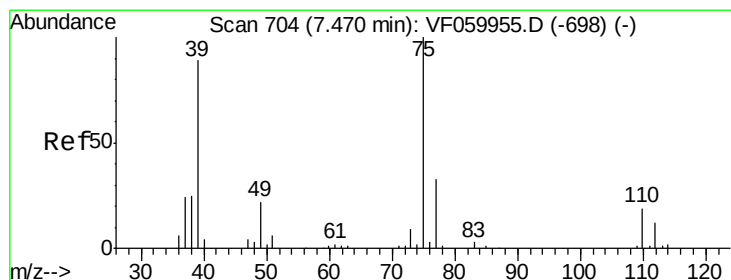
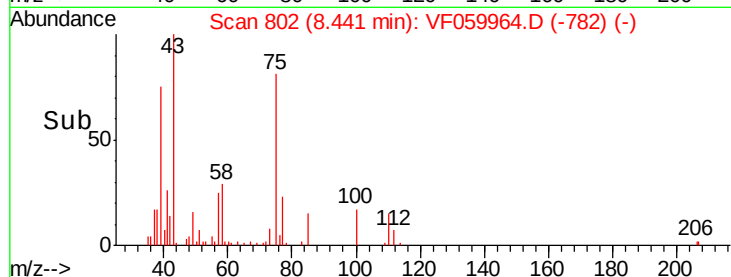
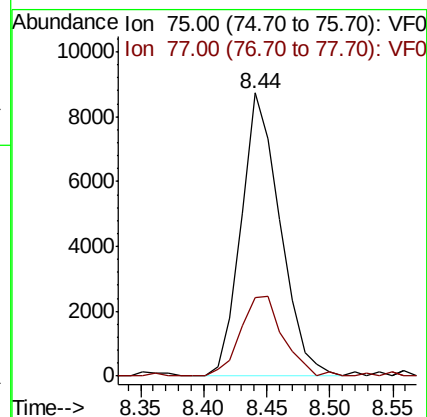
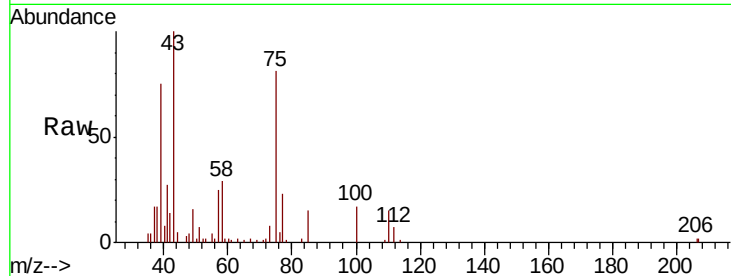
77 27.9 25.8 38.6

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#54

cis-1,3-Dichloropropene

Concen: 9.33 ug/l

RT: 7.47 min Scan# 704

Delta R.T. 0.00 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

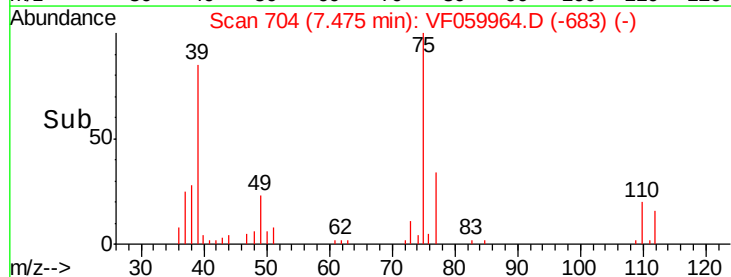
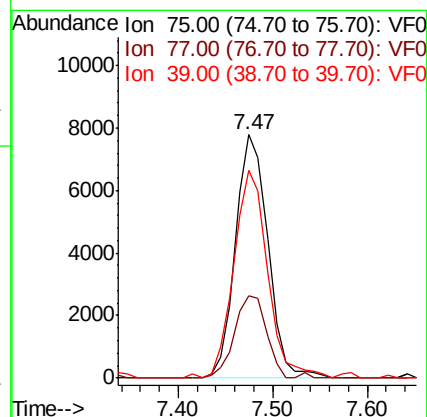
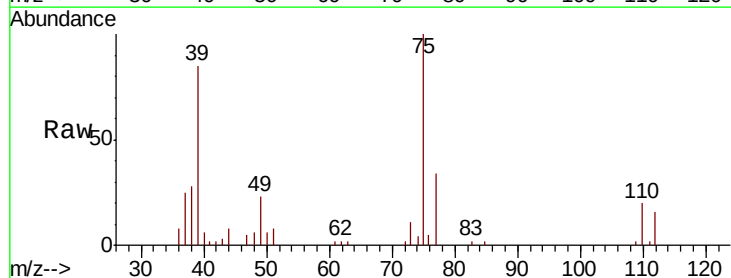
Tgt Ion: 75 Resp: 18492

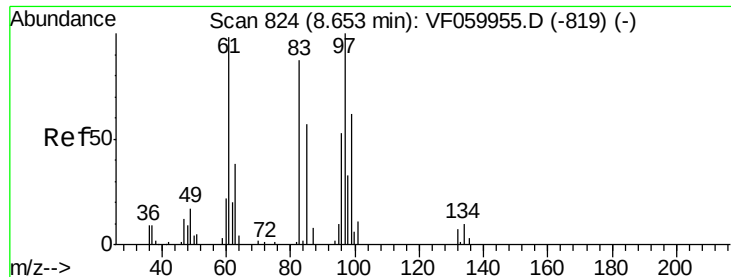
Ion Ratio Lower Upper

75 100

77 33.6 26.1 39.1

39 85.3 71.6 107.4





#55

1,1,2-Trichloroethane

Concen: 10.13 ug/l

RT: 8.66 min Scan# 824

Delta R.T. 0.00 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Instrument :

MSVOA_F

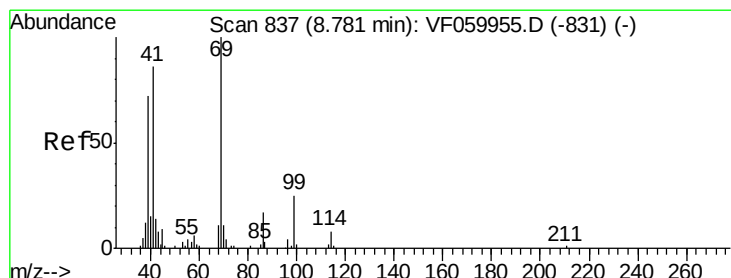
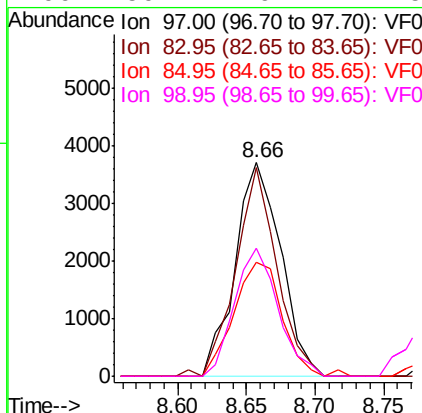
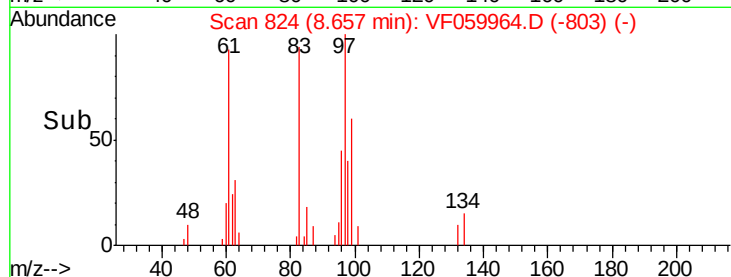
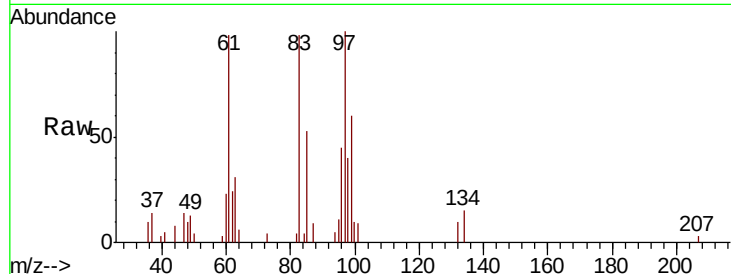
ClientSampleId :

LOQ-SOIL-02-QT3-2018

Tot Ion:	97	Resp:	8576
Ion	Ratio	Lower	Upper
97	100		
83	97.5	70.0	105.0
85	53.3	45.2	67.8
99	59.7	49.7	74.5

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#56

Ethyl methacrylate

Concen: 8.15 ug/l

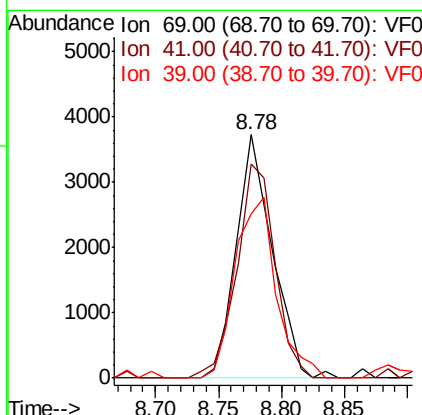
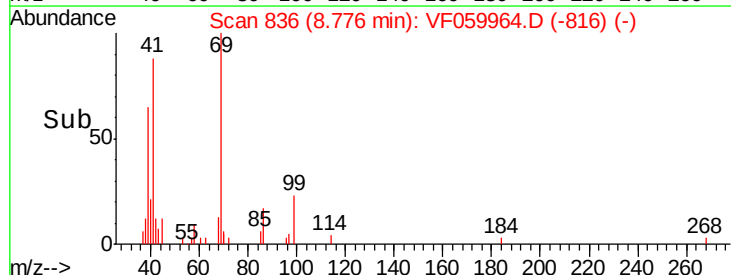
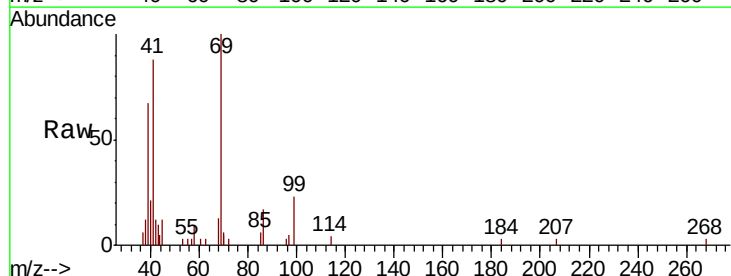
RT: 8.78 min Scan# 836

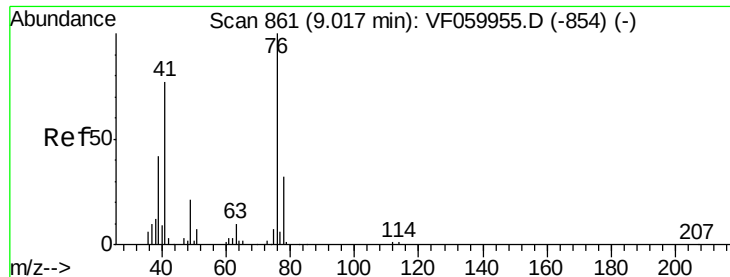
Delta R.T. -0.01 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Tgt Ion:	69	Resp:	7416
Ion	Ratio	Lower	Upper
69	100		
41	88.2	68.7	103.1
39	67.4	58.5	87.7





#57

1,3-Dichloropropane

Concen: 9.21 ug/l

RT: 9.02 min Scan# 861

Delta R.T. 0.00 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT3-2018

Tot Ion: 76 Resp: 14371

Ion Ratio Lower Upper

76 100

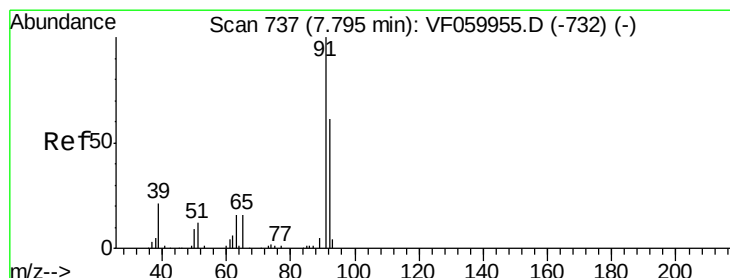
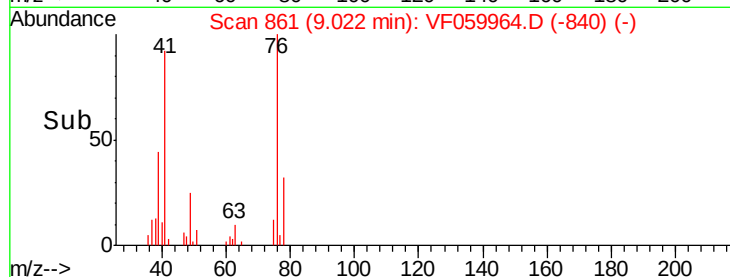
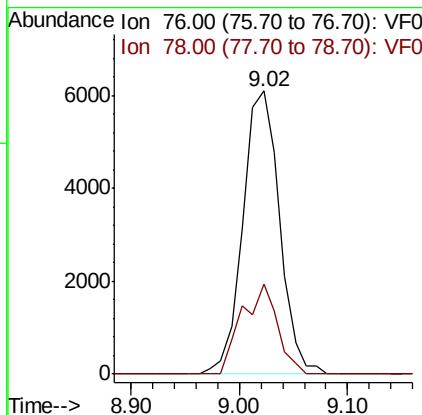
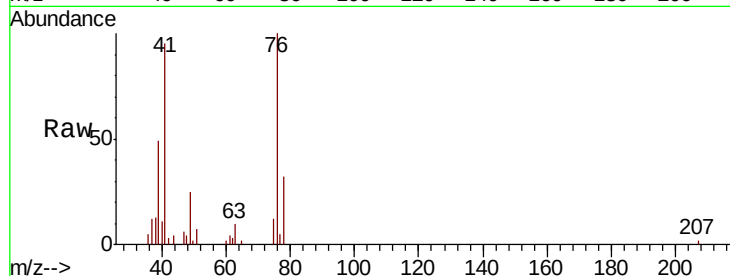
78 31.7 25.5 38.3

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#58

2-Chloroethyl Vinyl ether

Concen: 44.50 ug/l

RT: 7.80 min Scan# 737

Delta R.T. 0.00 min

Lab File: VF059964.D

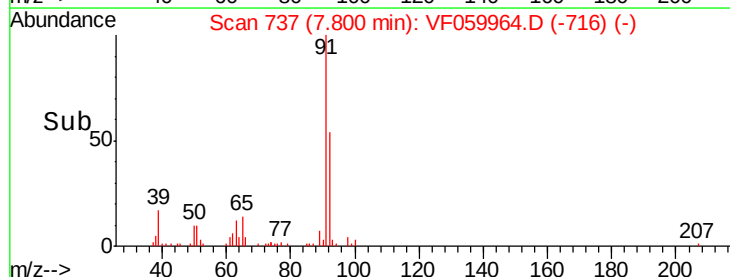
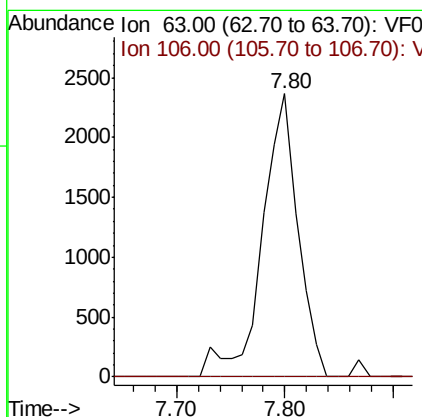
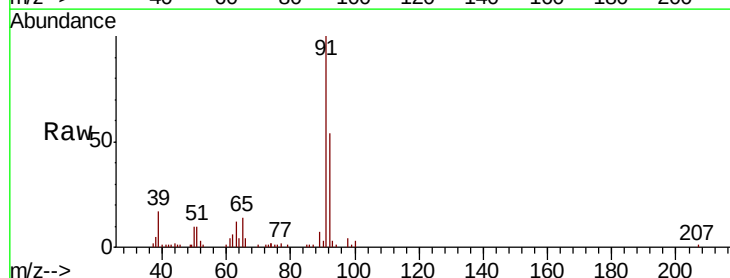
Acq: 15 Aug 2018 1:09

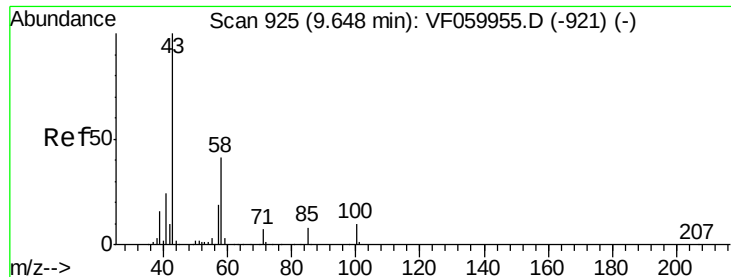
Tgt Ion: 63 Resp: 5446

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





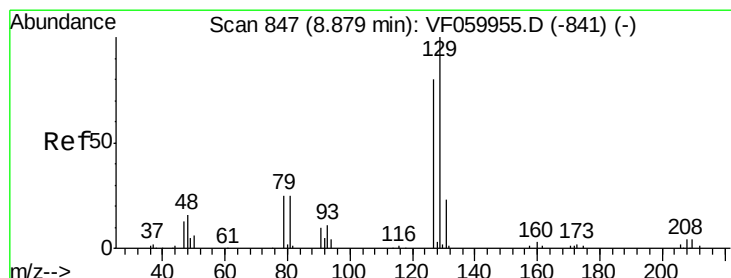
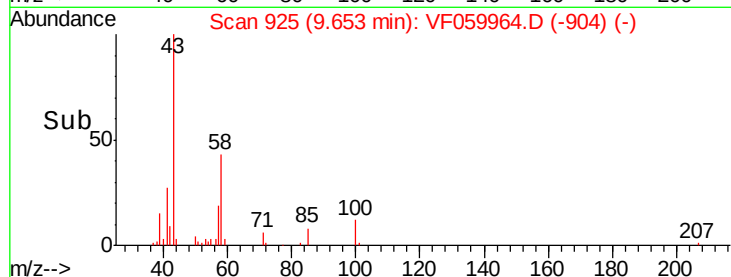
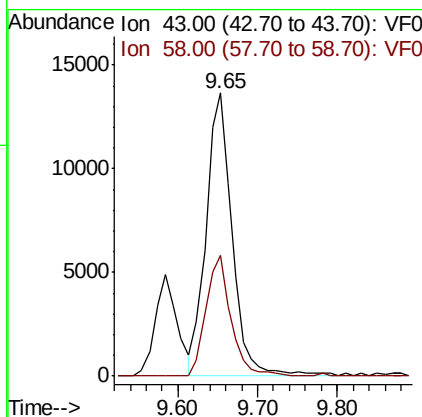
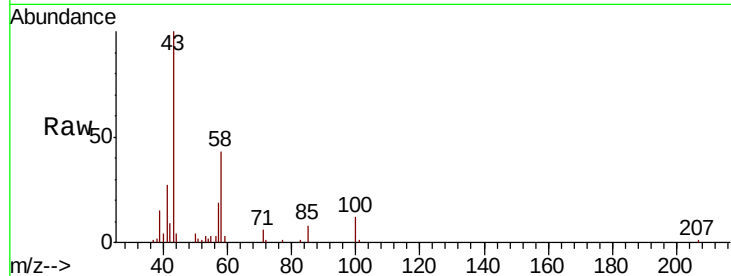
#59
2-Hexanone
Concen: 48.13 ug/l
RT: 9.65 min Scan# 925
Delta R.T. 0.00 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
43	100		
58	42.7	19.4	58.2

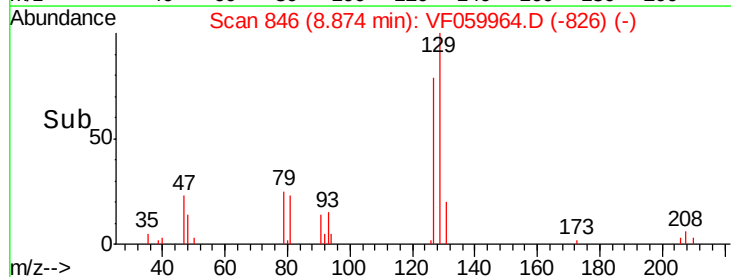
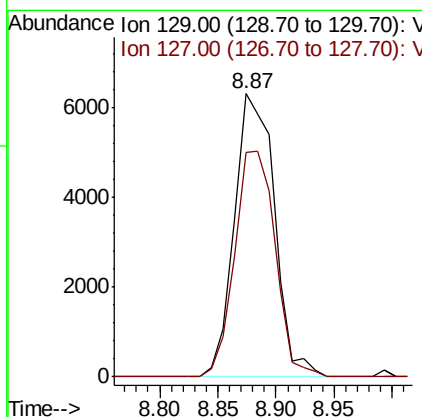
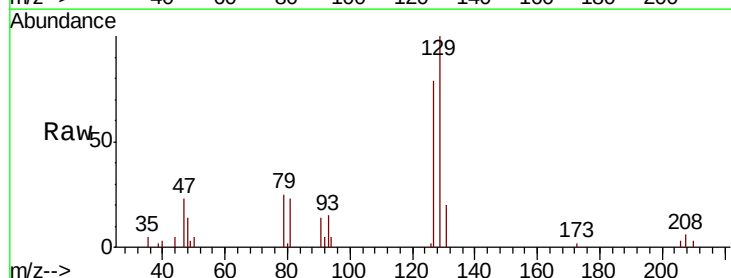
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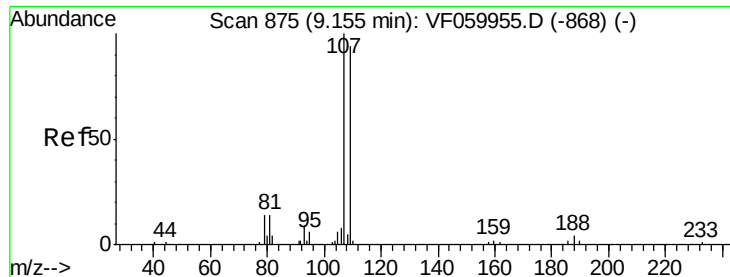
apatel
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#60
Dibromochloromethane
Concen: 8.97 ug/l
RT: 8.87 min Scan# 846
Delta R.T. -0.01 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.4	40.0	119.9





#61

1,2-Dibromoethane

Concen: 10.01 ug/l

RT: 9.15 min Scan# 874

Delta R.T. -0.01 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT3-2018

Tot Ion:107 Resp: 10570

Ion Ratio Lower Upper

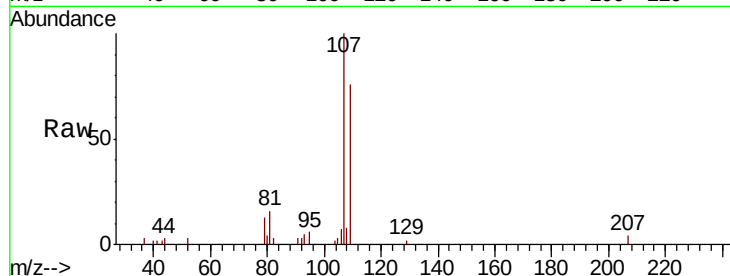
107 100

109 75.8 75.0 112.6

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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

9.15

4000

3000

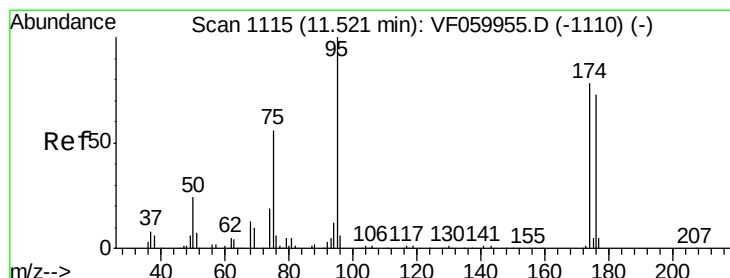
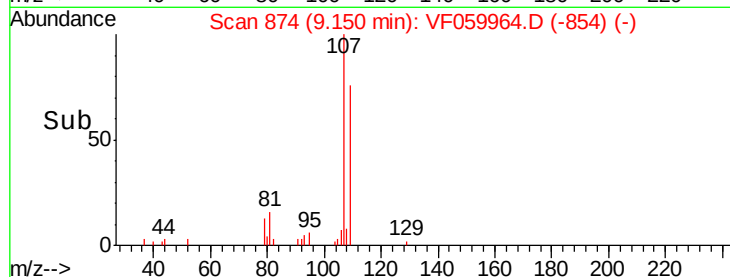
2000

1000

0

9.10 9.15 9.20 9.25

Time-->



#62

4-Bromofluorobenzene

Concen: 51.19 ug/l

RT: 11.53 min Scan# 1115

Delta R.T. 0.00 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

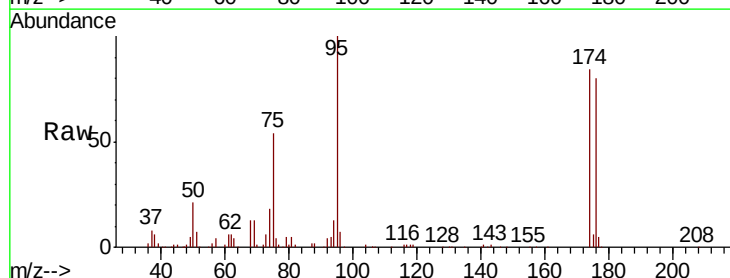
Tgt Ion: 95 Resp: 110540

Ion Ratio Lower Upper

95 100

174 83.9 0.0 156.4

176 79.8 0.0 146.8



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

11.53

80000

60000

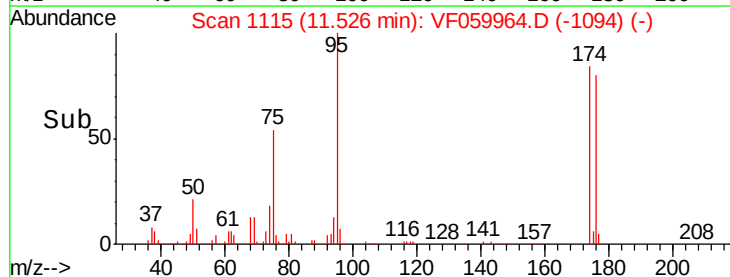
40000

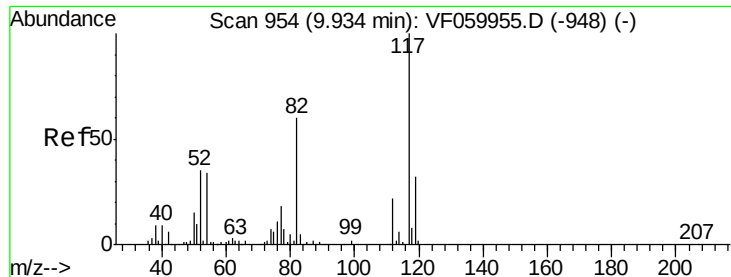
20000

0

11.40 11.50 11.60 11.70

Time-->





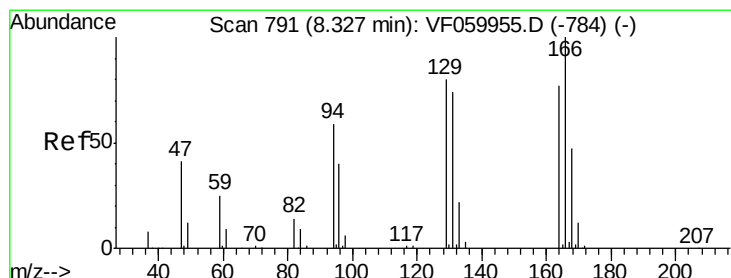
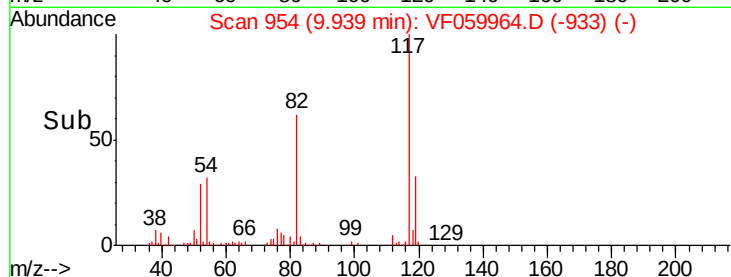
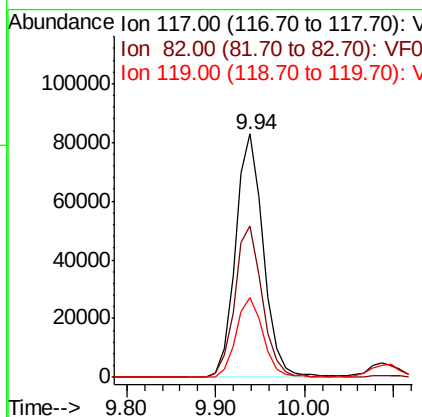
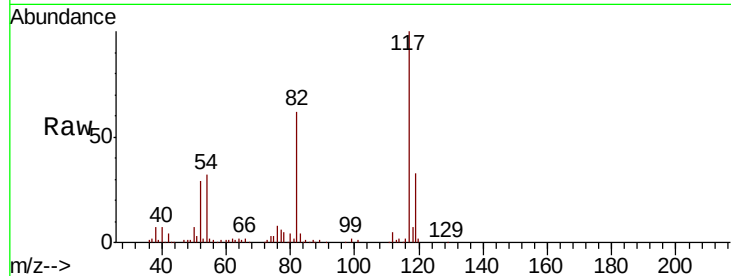
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.94 min Scan# 954
Delta R.T. 0.00 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT3-2018

Tot Ion:	117	Resp:	180161
Ion Ratio	Lower	Upper	
117	100		
82	62.3	48.3	72.5
119	32.8	25.7	38.5

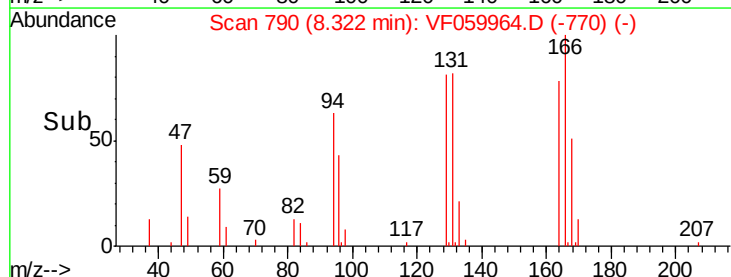
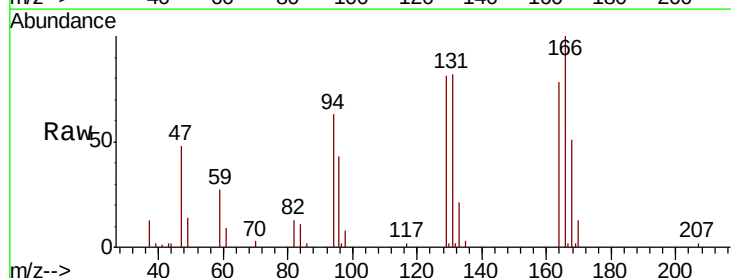
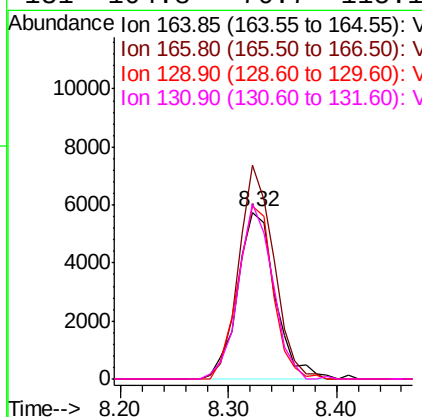
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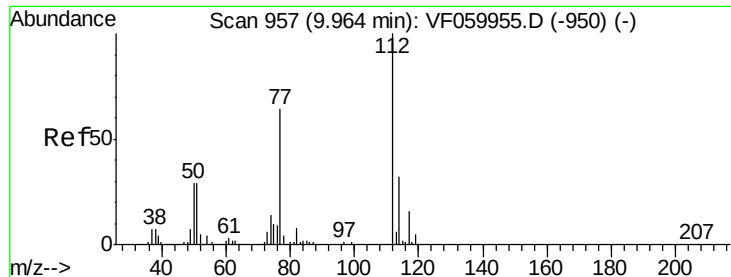
apatel
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#64
Tetrachloroethene
Concen: 9.96 ug/l
RT: 8.32 min Scan# 790
Delta R.T. -0.01 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Tgt Ion:	164	Resp:	13965
Ion Ratio	Lower	Upper	
164	100		
166	128.0	103.4	155.2
129	103.3	82.2	123.4
131	104.8	76.7	115.1





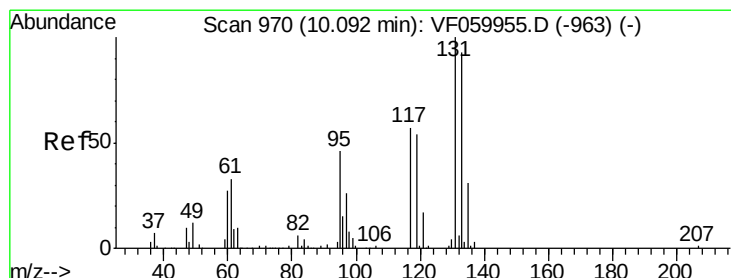
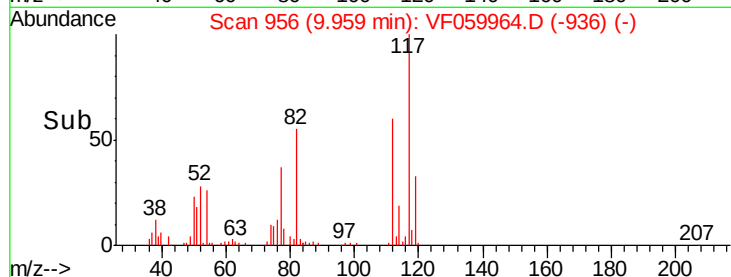
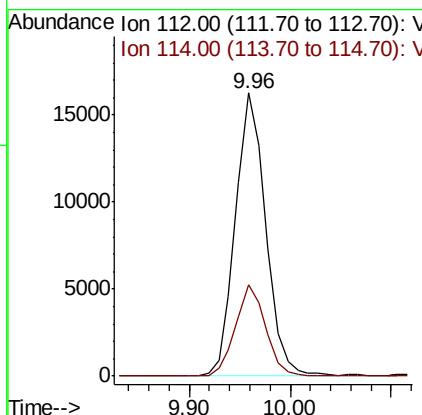
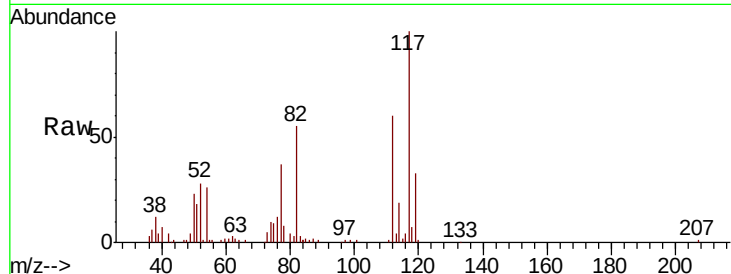
#65
Chlorobenzene
Concen: 9.82 ug/l
RT: 9.96 min Scan# 956
Delta R.T. -0.01 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT3-2018

Tot Ion:112 Resp: 34173
Ion Ratio Lower Upper
112 100
114 32.3 25.8 38.6

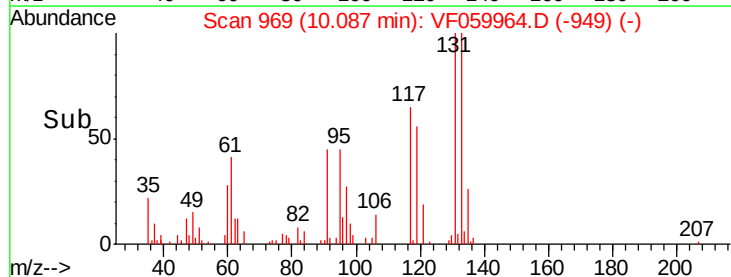
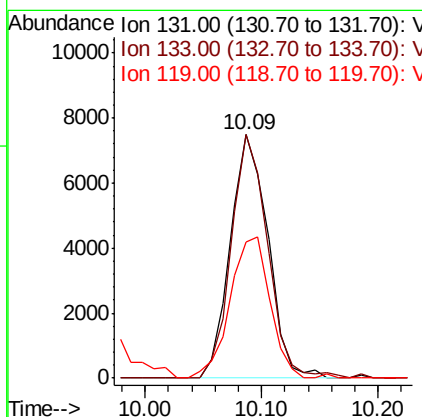
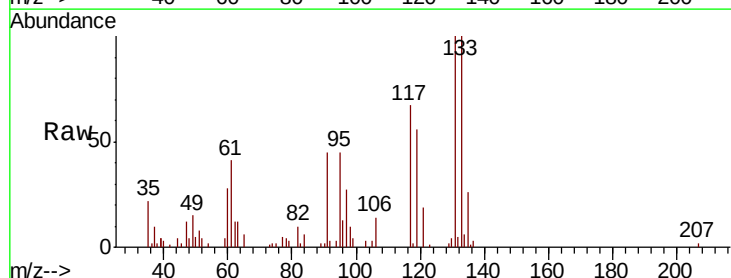
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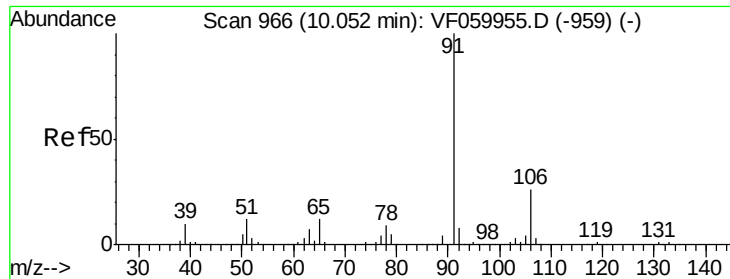
apatel
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#66
1,1,1,2-Tetrachloroethane
Concen: 9.95 ug/l
RT: 10.09 min Scan# 969
Delta R.T. -0.01 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Tgt Ion:131 Resp: 16736
Ion Ratio Lower Upper
131 100
133 95.1 46.4 139.1
119 53.1 27.2 81.5





#67

Ethyl Benzene

Concen: 9.57 ug/l

RT: 10.06 min Scan# 966

Delta R.T. 0.00 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT3-2018

Tot Ion: 91 Resp: 58837

Ion Ratio Lower Upper

91 100

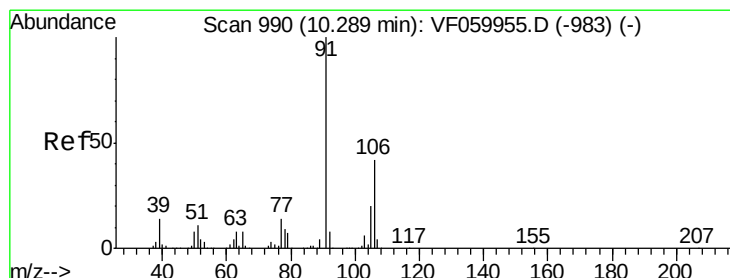
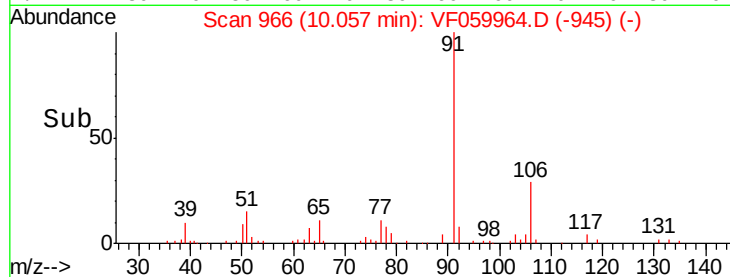
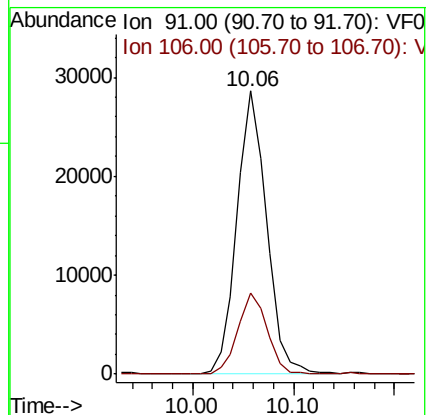
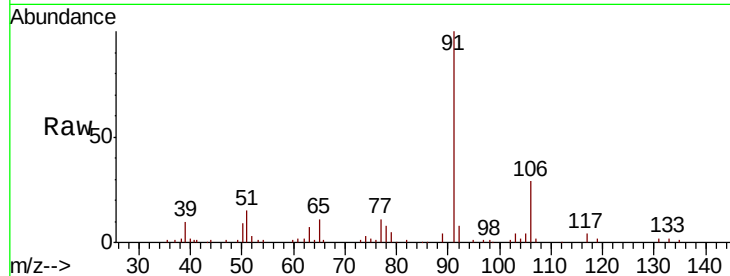
106 28.9 20.7 31.1

Manual Integrations

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#68

m/p-Xylenes

Concen: 20.43 ug/l

RT: 10.28 min Scan# 989

Delta R.T. -0.01 min

Lab File: VF059964.D

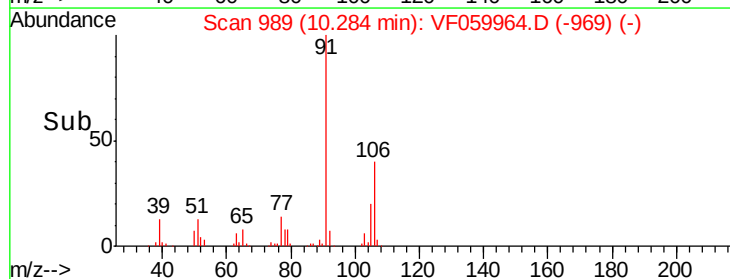
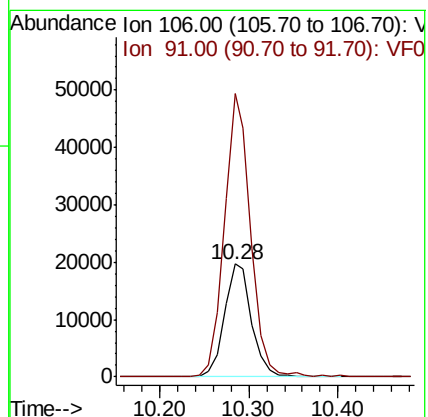
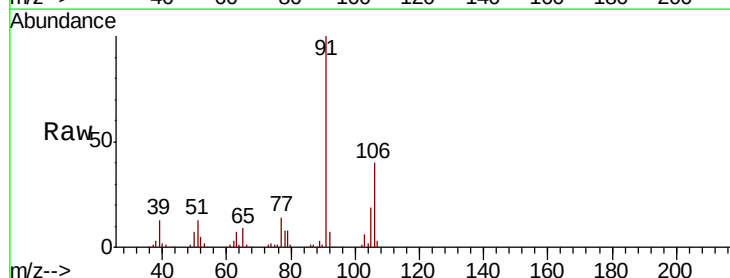
Acq: 15 Aug 2018 1:09

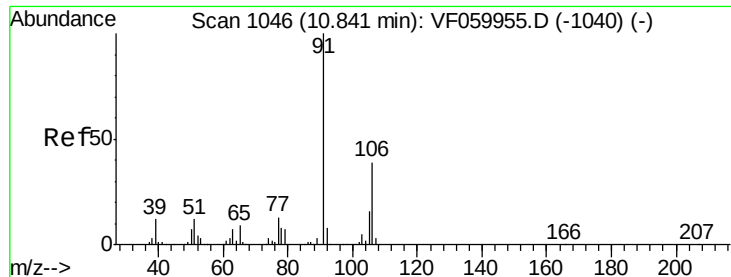
Tgt Ion: 106 Resp: 42233

Ion Ratio Lower Upper

106 100

91 250.7 191.8 287.8





#69

o-Xylene

Concen: 9.45 ug/l

RT: 10.85 min Scan# 1046

Delta R.T. 0.00 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT3-2018

Tot Ion:106 Resp: 21215

Ion Ratio Lower Upper

106 100

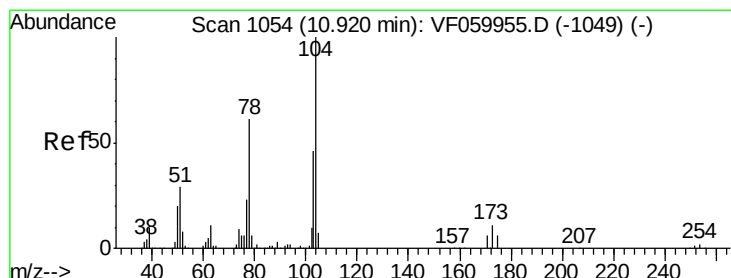
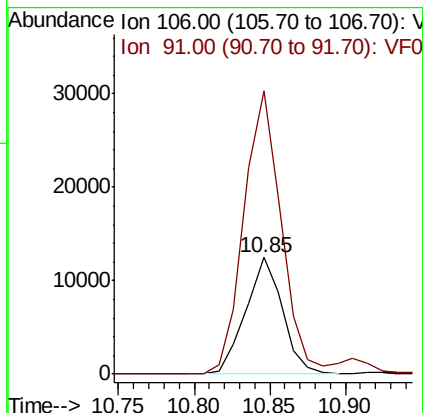
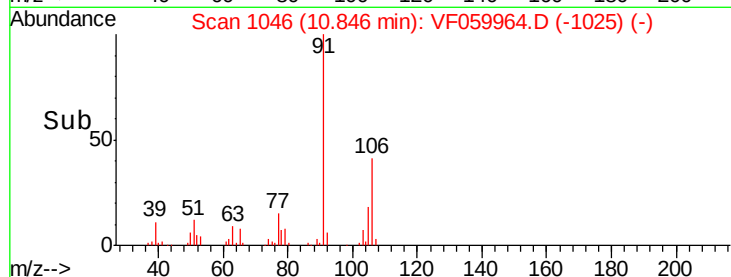
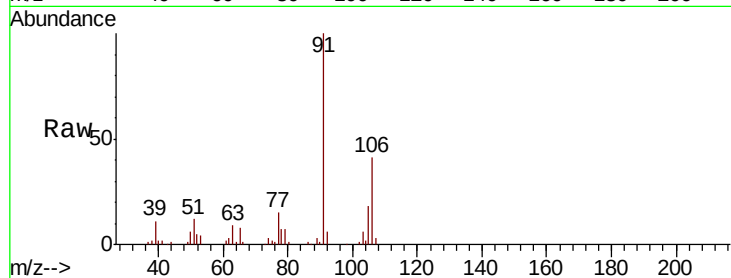
91 243.2 126.8 380.6

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#70

Styrene

Concen: 9.33 ug/l

RT: 10.91 min Scan# 1053

Delta R.T. -0.01 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

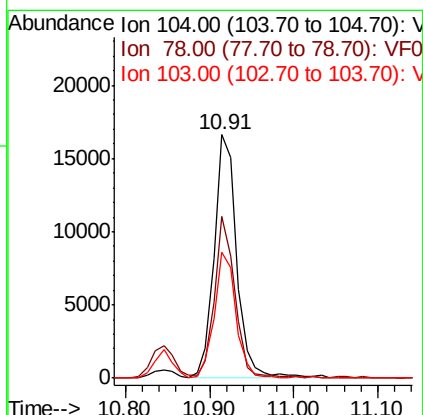
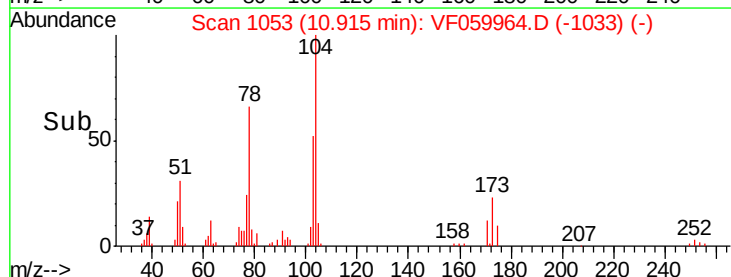
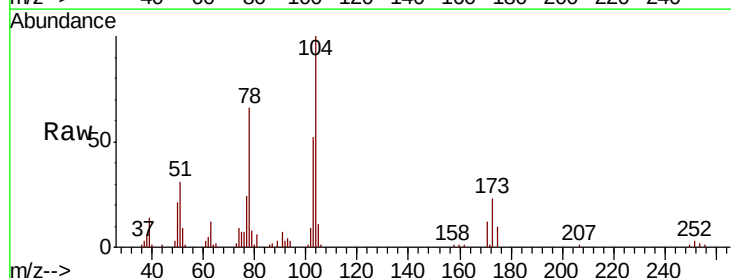
Tgt Ion:104 Resp: 30999

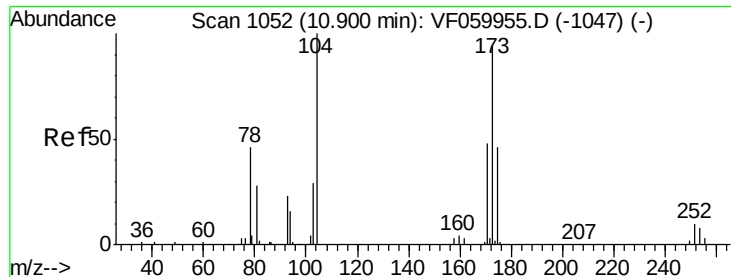
Ion Ratio Lower Upper

104 100

78 66.4 49.2 73.8

103 51.8 37.4 56.0





#71

Bromoform

Concen: 9.06 ug/l

RT: 10.90 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Instrument :

MSVOA_F

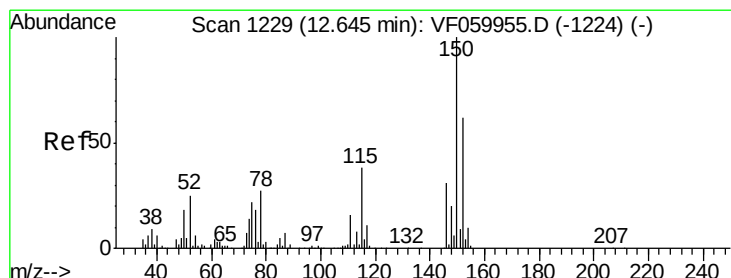
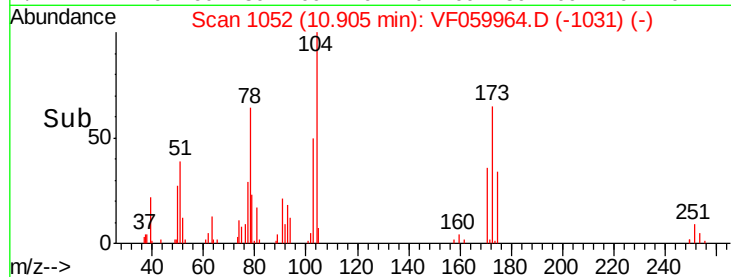
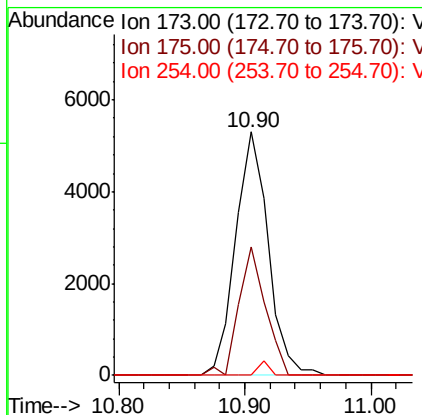
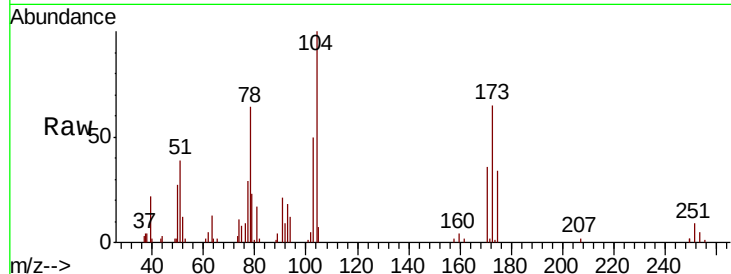
ClientSampleId :

LOQ-SOIL-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
173	100		
175	51.6	24.6	73.6
254	0.0	0.0	0.0

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#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

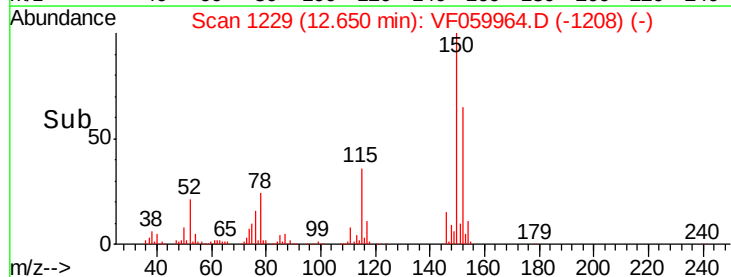
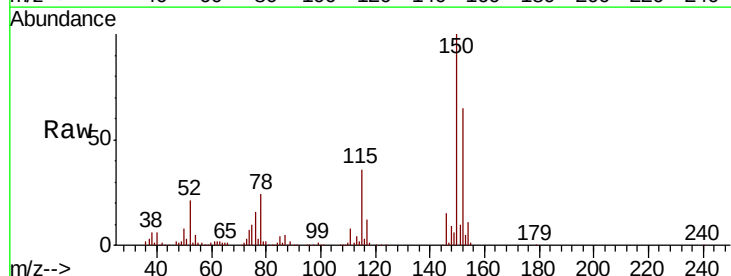
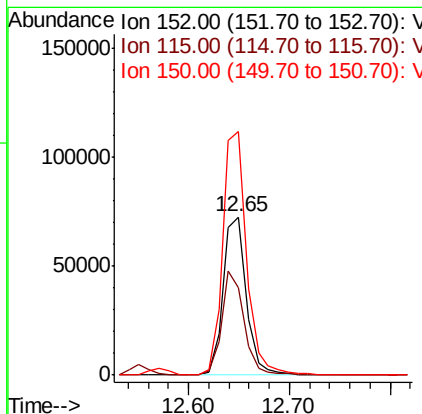
RT: 12.65 min Scan# 1229

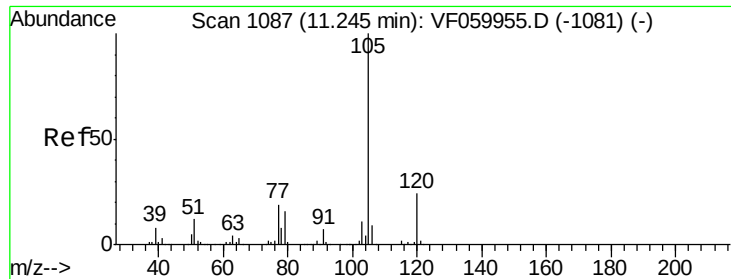
Delta R.T. 0.00 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.4	31.4	94.0
150	154.1	0.0	326.2





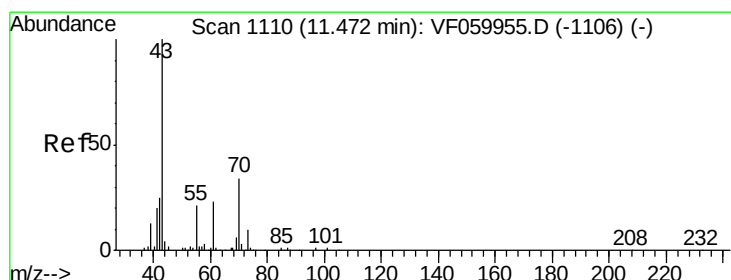
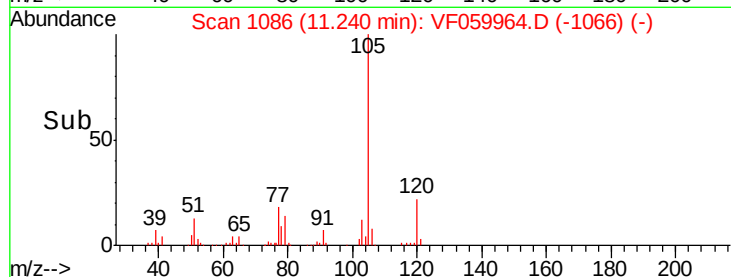
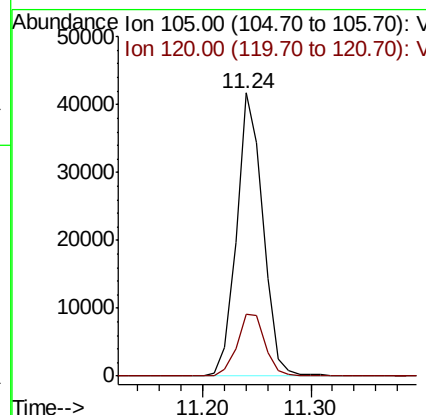
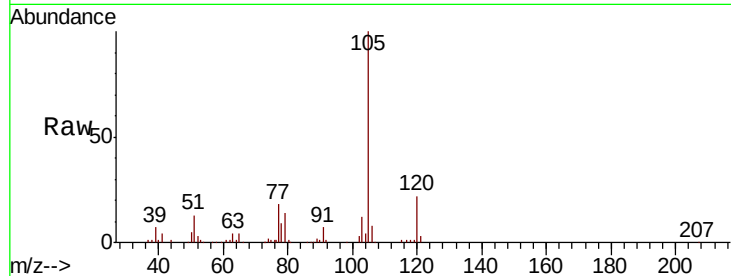
#73
Isopropylbenzene
Concen: 9.57 ug/l
RT: 11.24 min Scan# 1086
Delta R.T. -0.01 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
105	100		
120	21.9	11.9	35.9

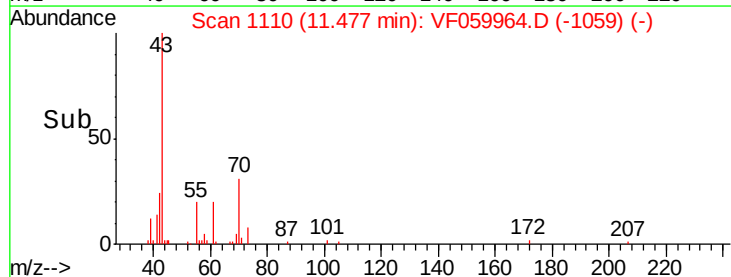
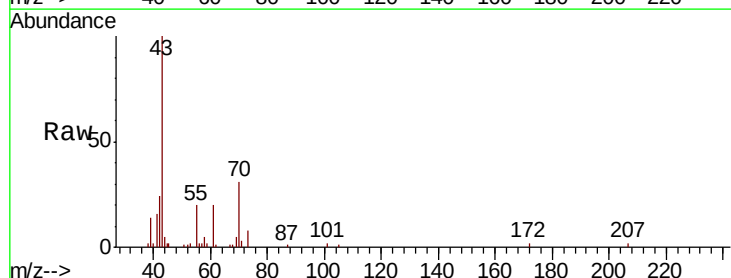
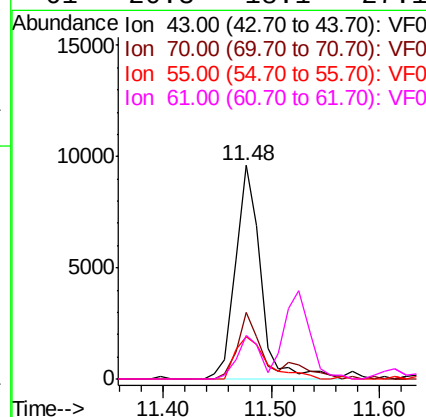
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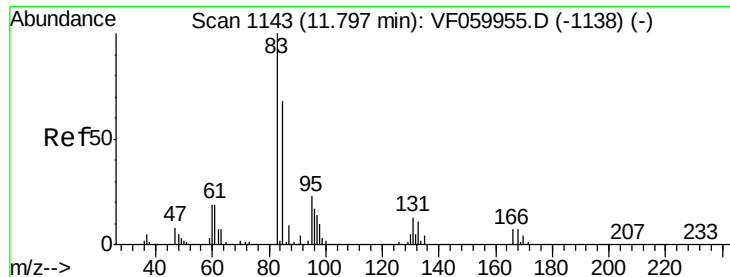
apatel
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#74
N-ethyl acetate
Concen: 9.68 ug/l
RT: 11.48 min Scan# 1110
Delta R.T. 0.00 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Tgt Ion	Ratio	Lower	Upper
43	100		
70	31.1	26.9	40.3
55	19.9	16.9	25.3
61	20.3	18.1	27.1





#75

1,1,2,2-Tetrachloroethane

Concen: 9.96 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Instrument :

MSVOA_F

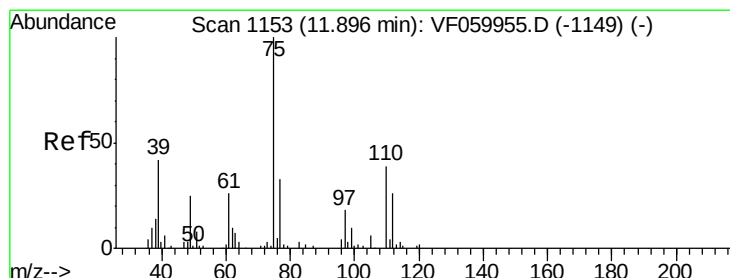
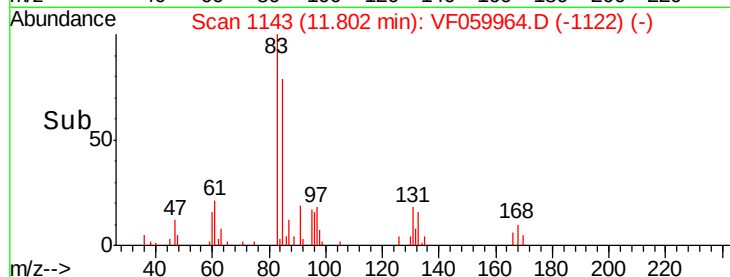
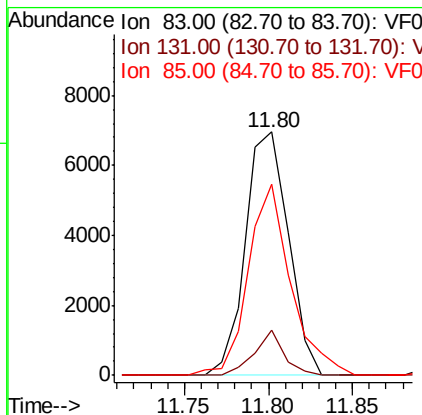
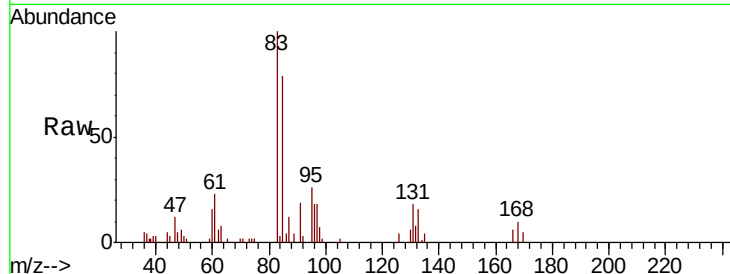
ClientSampleId :

LOQ-SOIL-02-QT3-2018

Tot Ion:	83	Resp:	12319
Ion Ratio	Lower	Upper	
83	100		
131	18.4	6.3	19.1
85	78.7	33.9	101.7

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 9.68 ug/l

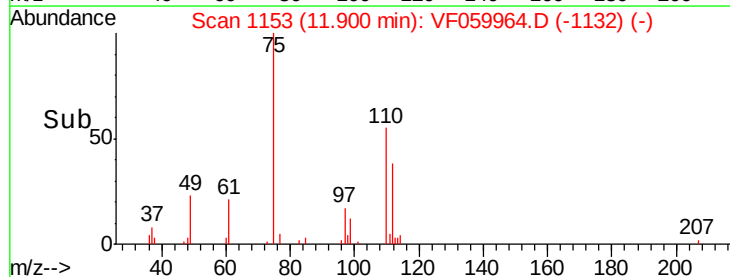
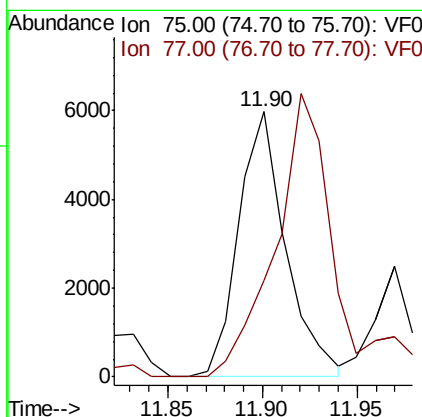
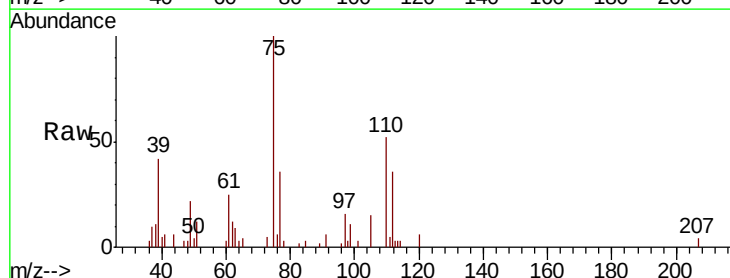
RT: 11.90 min Scan# 1153

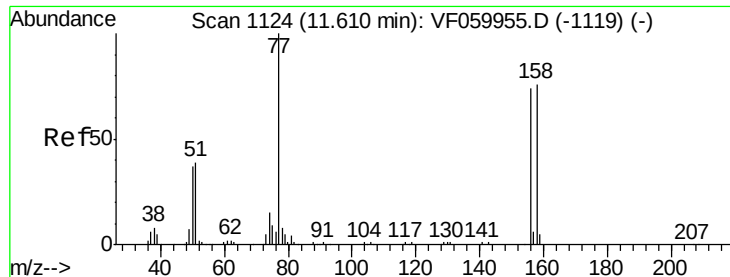
Delta R.T. 0.00 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Tgt Ion:	75	Resp:	10316
Ion Ratio	Lower	Upper	
75	100		
77	36.4	16.6	49.7





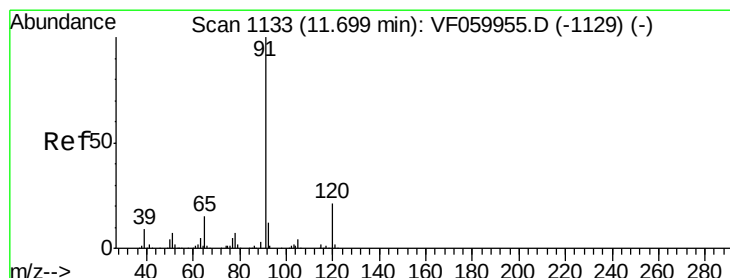
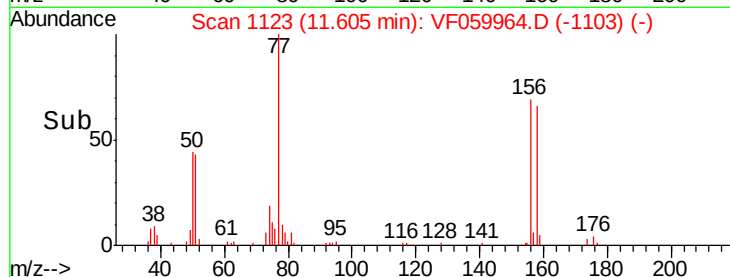
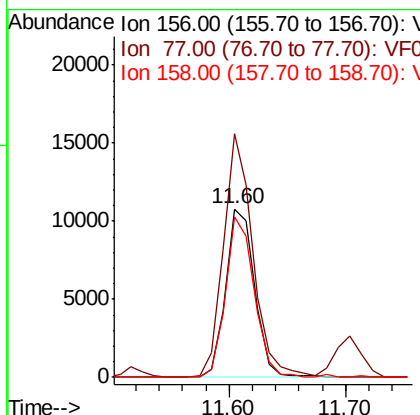
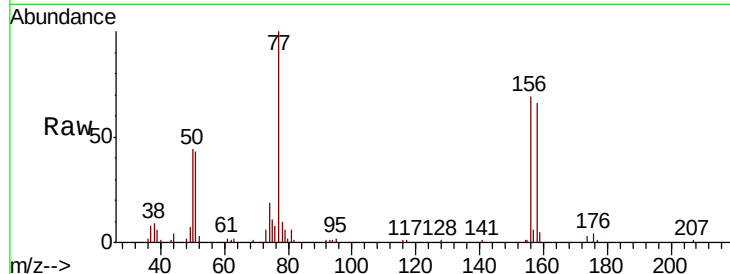
#77
Bromobenzene
Concen: 9.61 ug/l
RT: 11.60 min Scan# 1123
Delta R.T. -0.01 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT3-2018

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		18549		
77	144.3	67.8	203.2		
158	95.4	51.7	155.2		

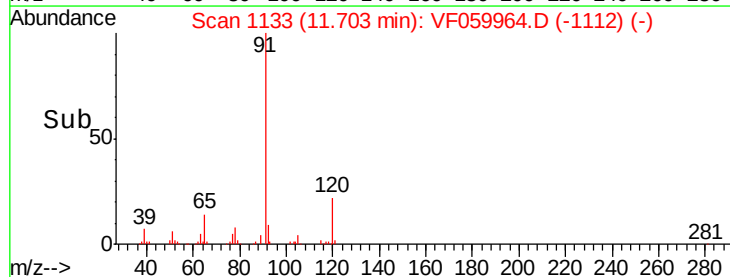
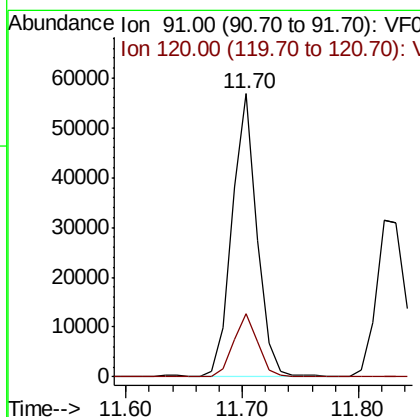
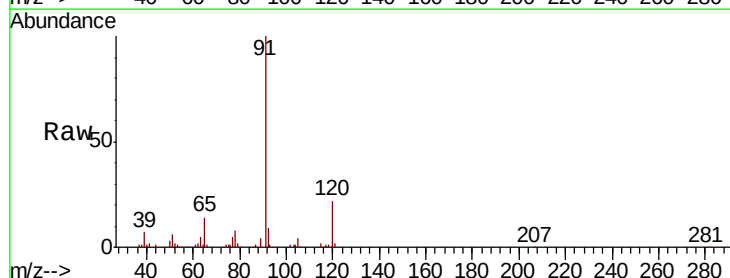
Manual Integrations
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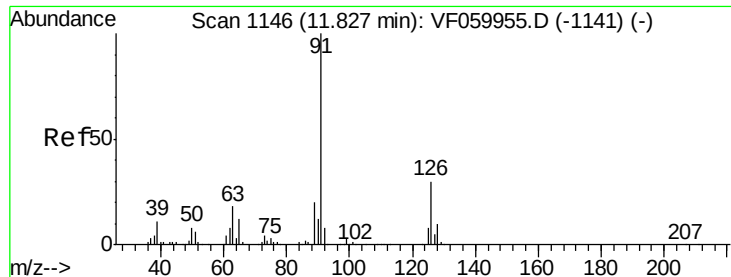
apatel
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#78
n-propylbenzene
Concen: 9.76 ug/l
RT: 11.70 min Scan# 1133
Delta R.T. 0.00 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		84218		
120	22.2	10.4	31.1		





#79

2-Chlorotoluene

Concen: 10.12 ug/l

RT: 11.82 min Scan# 1145

Delta R.T. -0.01 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT3-2018

Tot Ion: 91 Resp: 54712

Ion Ratio Lower Upper

91 100

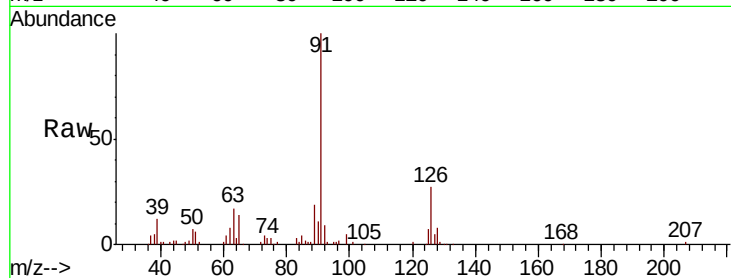
126 27.5 15.2 45.5

Manual Integrations

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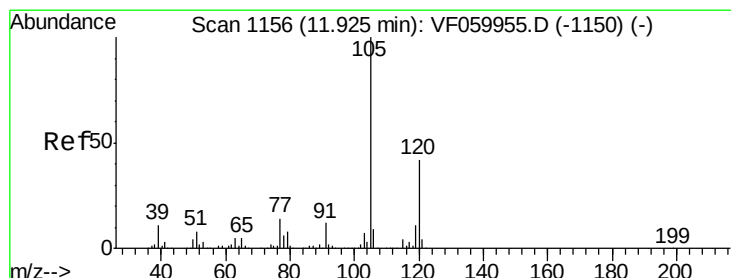
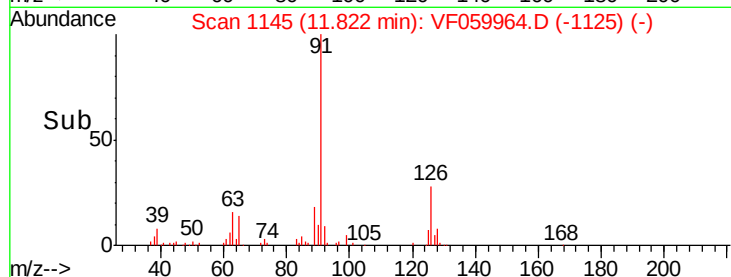
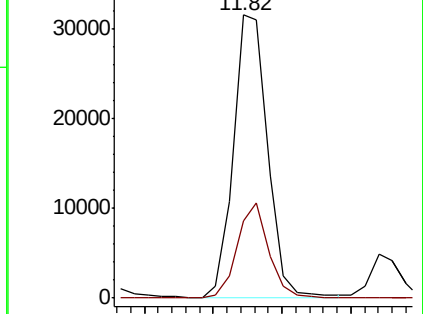
apatel

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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: 9.62 ug/l

RT: 11.92 min Scan# 1155

Delta R.T. -0.01 min

Lab File: VF059964.D

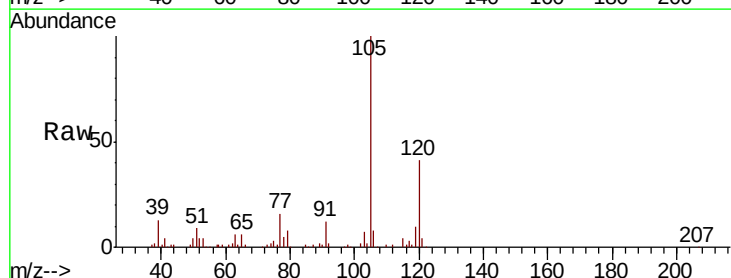
Acq: 15 Aug 2018 1:09

Tgt Ion:105 Resp: 65875

Ion Ratio Lower Upper

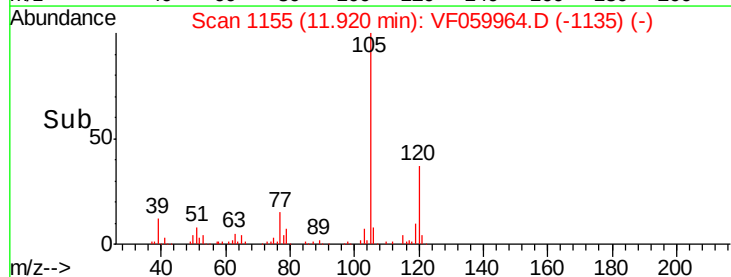
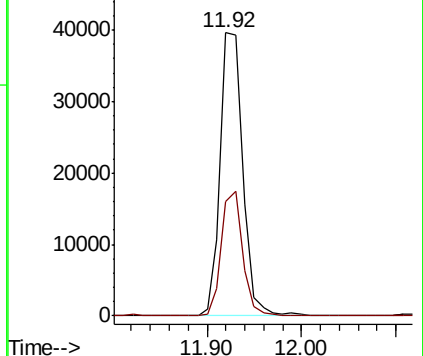
105 100

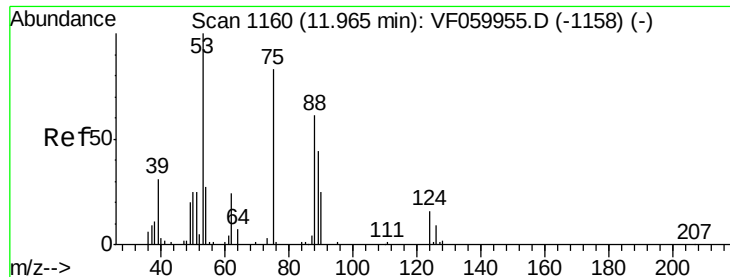
120 40.6 21.1 63.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





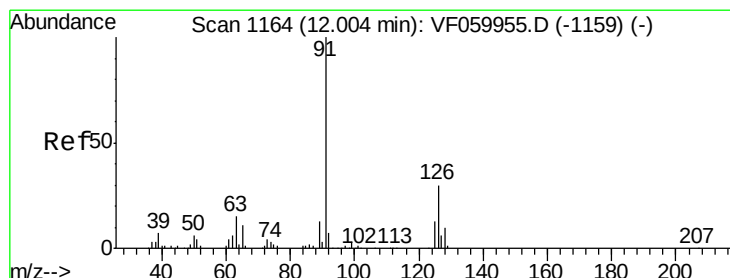
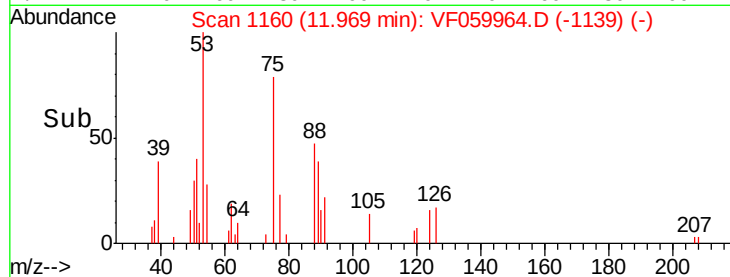
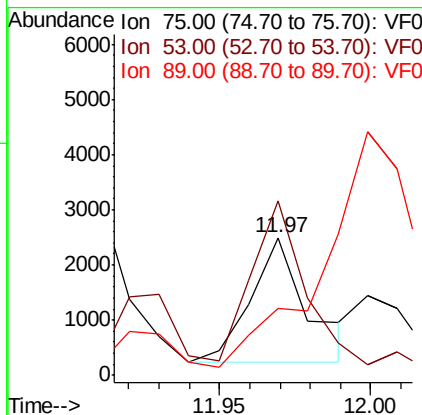
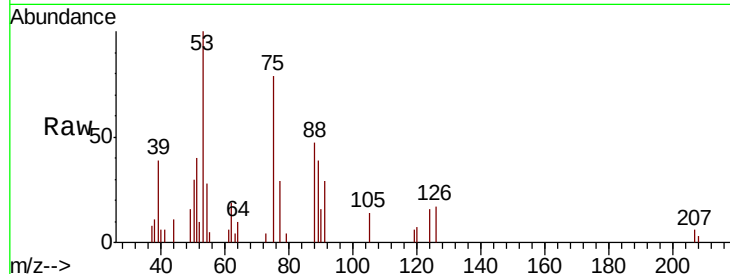
#81
trans-1,4-Dichloro-2-butene
Concen: 6.76 ug/l
RT: 11.97 min Scan# 1160
Delta R.T. 0.00 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
75	100		
53	126.4	97.1	145.7
89	48.7	43.6	65.4

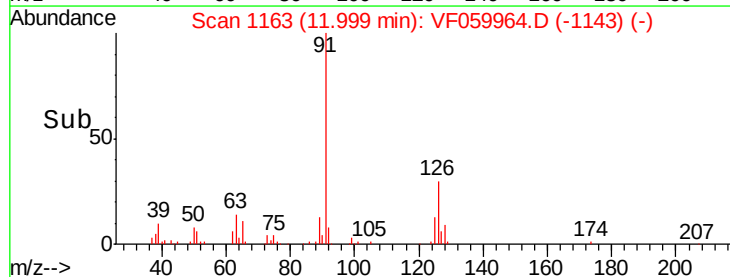
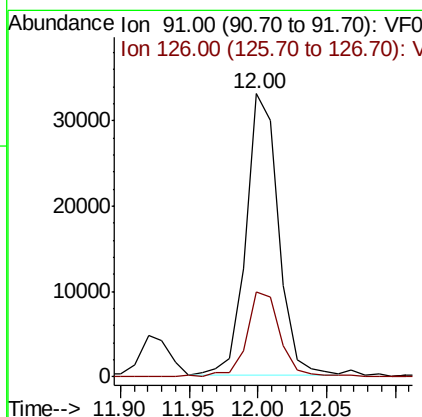
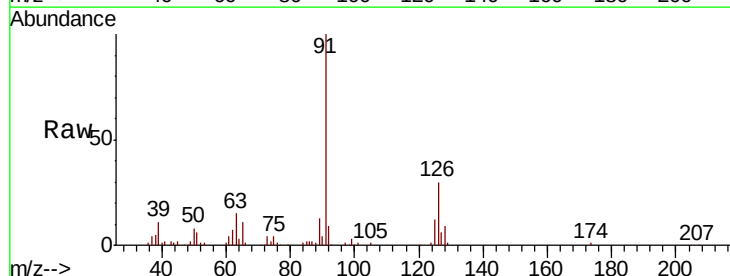
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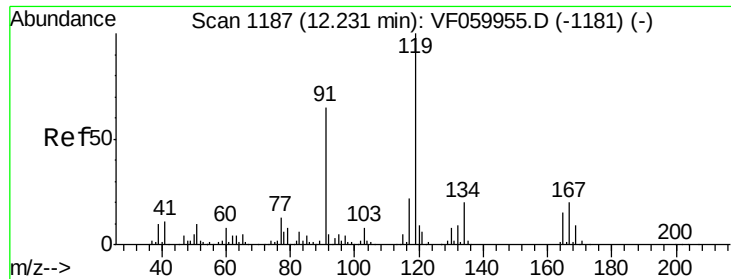
apatel
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#82
4-Chlorotoluene
Concen: 9.00 ug/l
RT: 12.00 min Scan# 1163
Delta R.T. -0.01 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.1	15.3	45.8





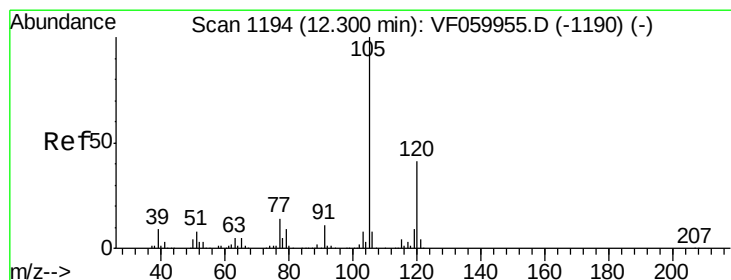
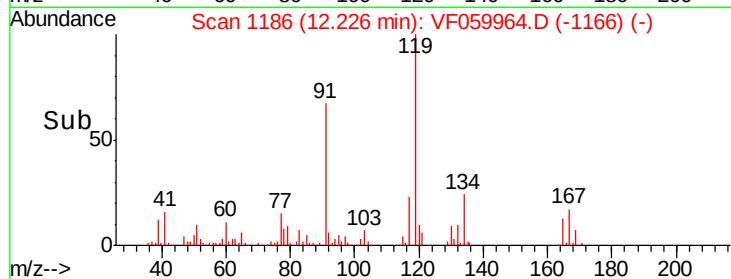
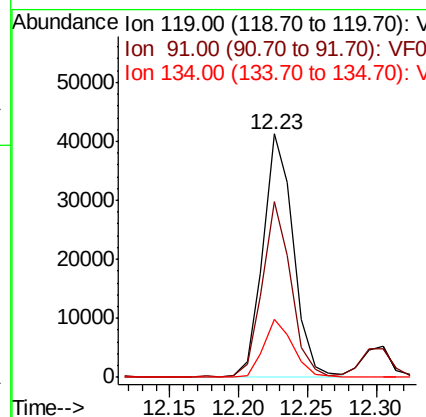
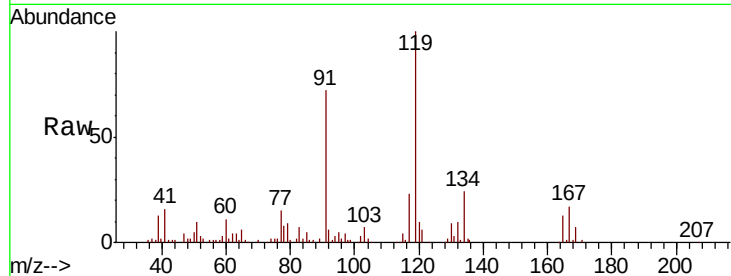
#83
tert-Butylbenzene
Concen: 9.45 ug/l
RT: 12.23 min Scan# 1186
Delta R.T. -0.01 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT3-2018

Tot Ion	Ratio	Resp	Lower	Upper
119	100	63740		
91	72.0		32.6	98.0
134	23.8		10.1	30.3

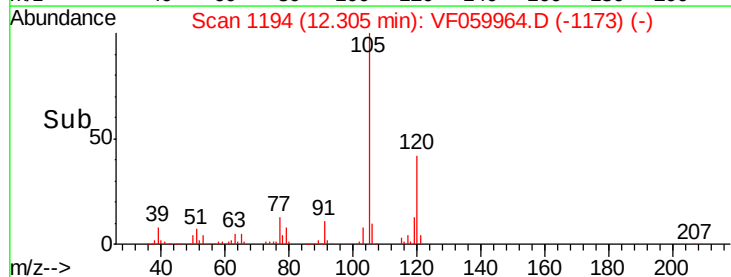
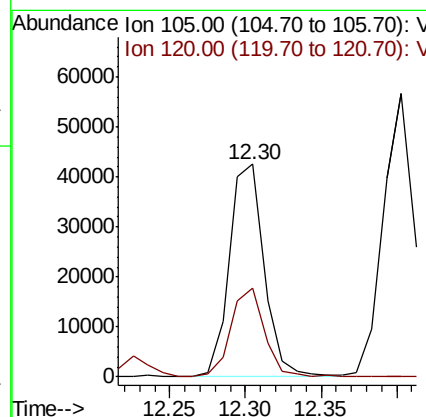
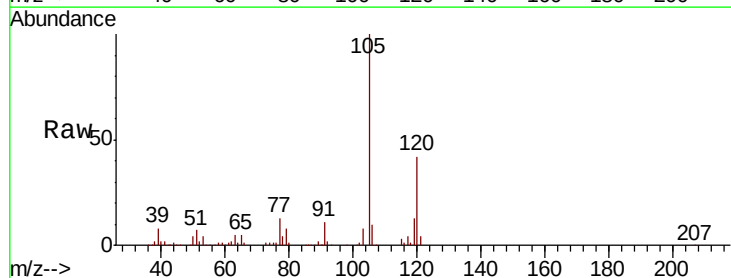
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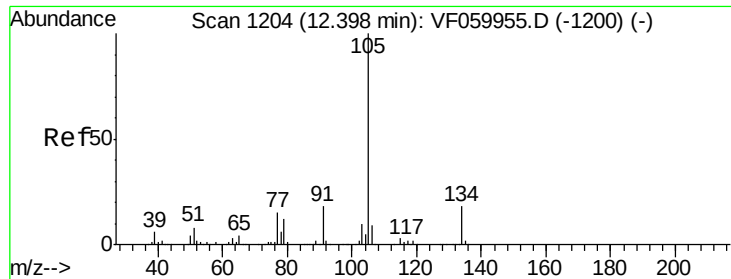
apatel
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#84
1,2,4-Trimethylbenzene
Concen: 9.90 ug/l
RT: 12.30 min Scan# 1194
Delta R.T. 0.00 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	68322		
120	41.8		20.6	61.9





#85

sec-Butylbenzene

Concen: 9.63 ug/l

RT: 12.40 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Instrument :

MSVOA_F

ClientSampleId :

LOQ-SOIL-02-QT3-2018

Tot Ion:105 Resp: 82760

Ion Ratio Lower Upper

105 100

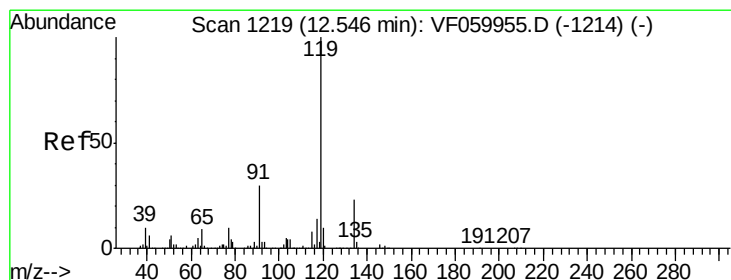
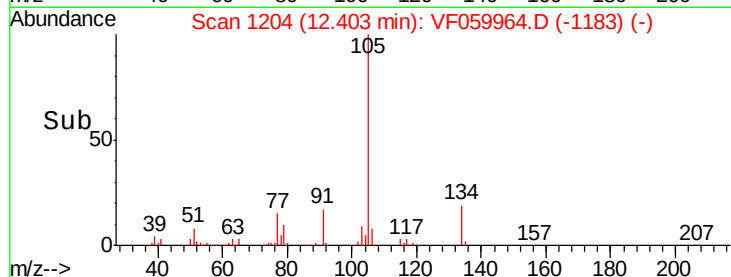
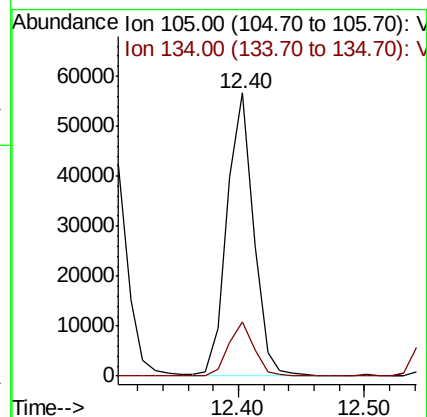
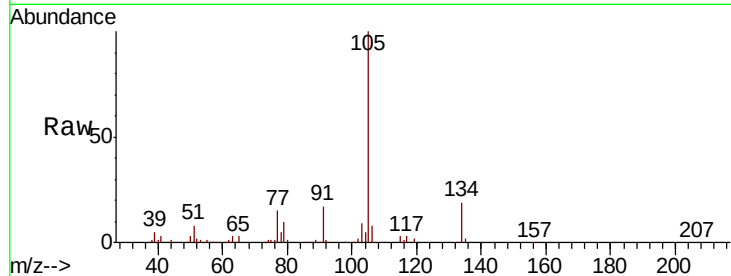
134 19.3 8.9 26.7

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#86

p-Isopropyltoluene

Concen: 9.32 ug/l

RT: 12.55 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

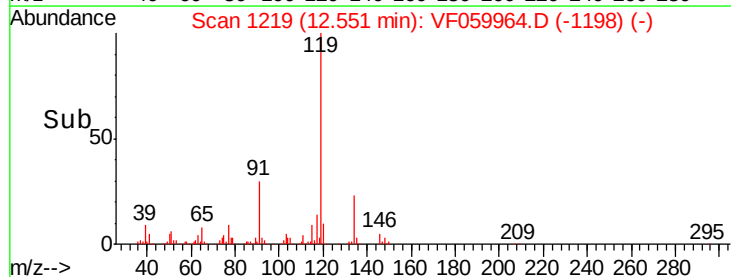
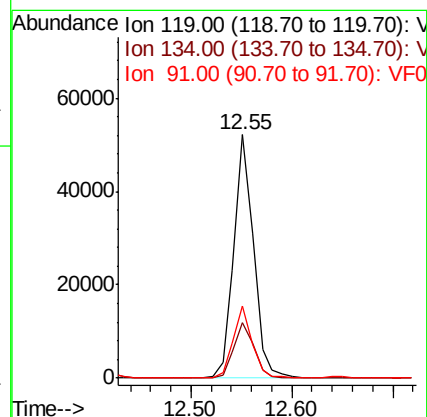
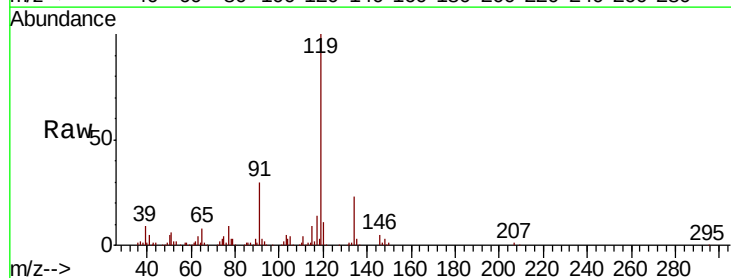
Tgt Ion:119 Resp: 70562

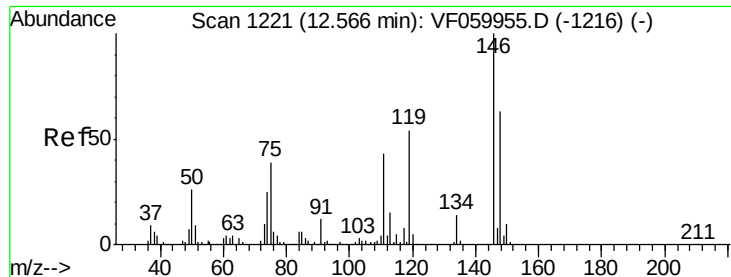
Ion Ratio Lower Upper

119 100

134 22.6 11.4 34.2

91 29.7 14.8 44.4





#87

1,3-Dichlorobenzene

Concen: 9.86 ug/l

RT: 12.57 min Scan# 1221

Delta R.T. 0.00 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Instrument :

MSVOA_F

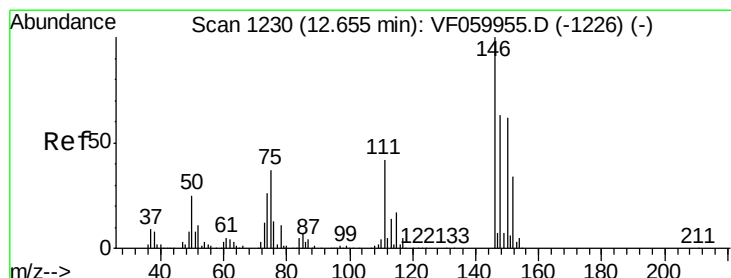
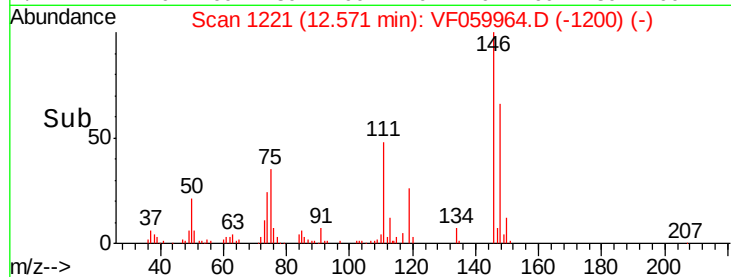
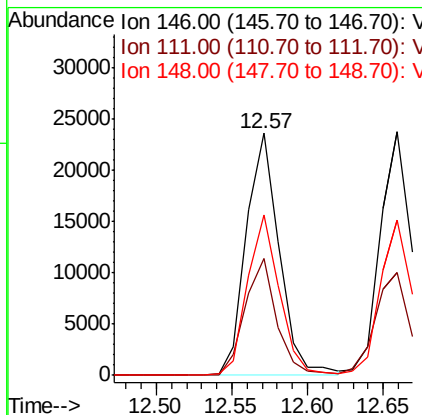
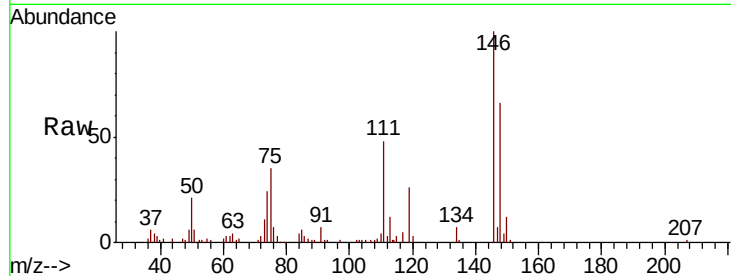
ClientSampleId :

LOQ-SOIL-02-QT3-2018

Tot Ion:	146	Resp:	36090
Ion Ratio	Lower	Upper	
146	100		
111	48.4	21.3	63.9
148	66.1	31.4	94.3

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#88

1,4-Dichlorobenzene

Concen: 9.89 ug/l

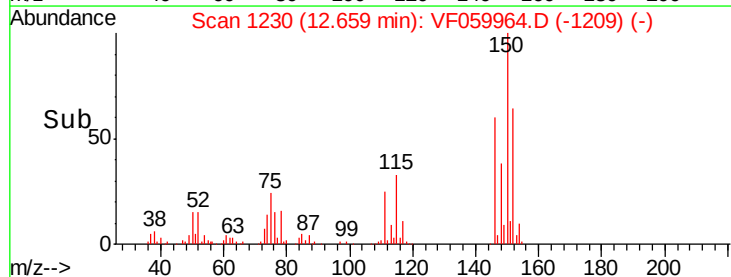
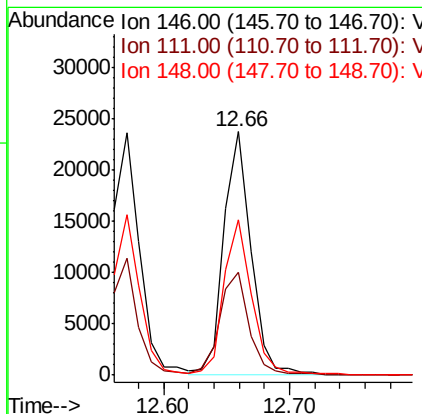
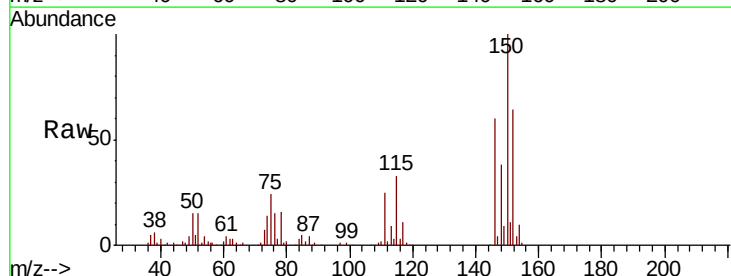
RT: 12.66 min Scan# 1230

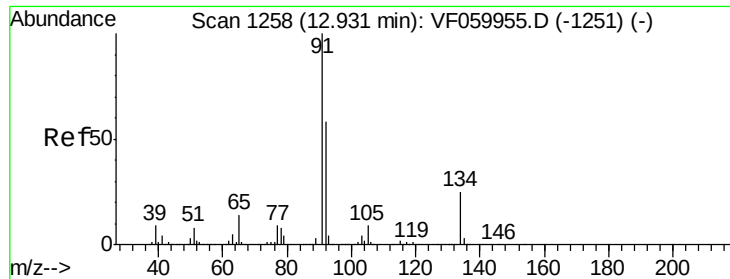
Delta R.T. 0.00 min

Lab File: VF059964.D

Acq: 15 Aug 2018 1:09

Tgt Ion:	146	Resp:	35645
Ion Ratio	Lower	Upper	
146	100		
111	42.2	21.1	63.1
148	63.8	31.7	95.1





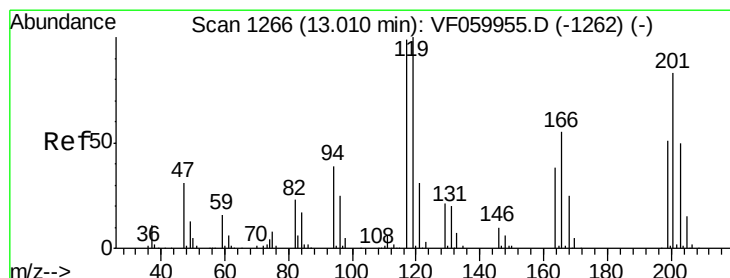
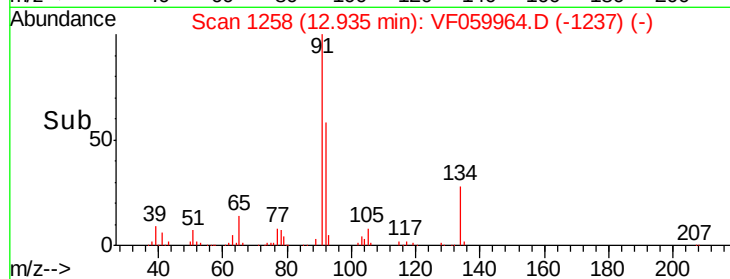
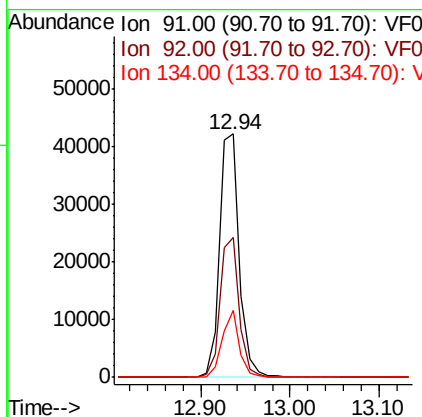
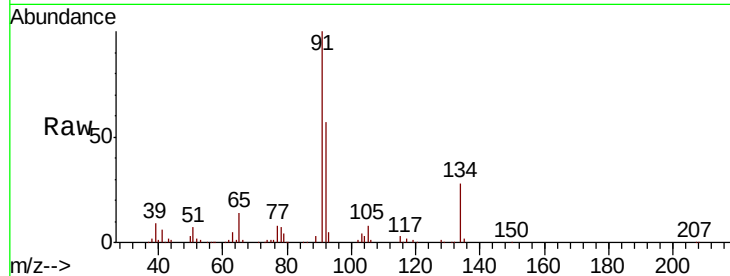
#89
n-Butylbenzene
Concen: 9.03 ug/l
RT: 12.94 min Scan# 1258
Delta R.T. 0.00 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT3-2018

Tot Ion	Ratio	Resp	Lower	Upper
91	100	65851		
92	57.5	29.2	87.6	
134	27.6	12.8	38.3	

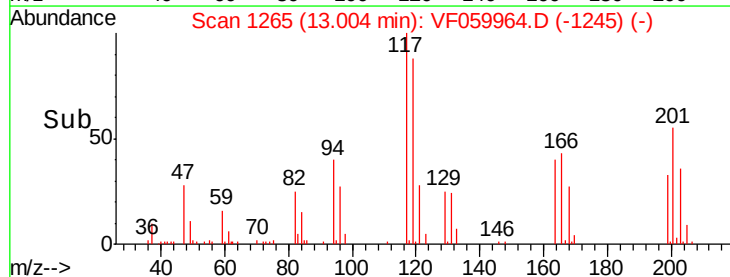
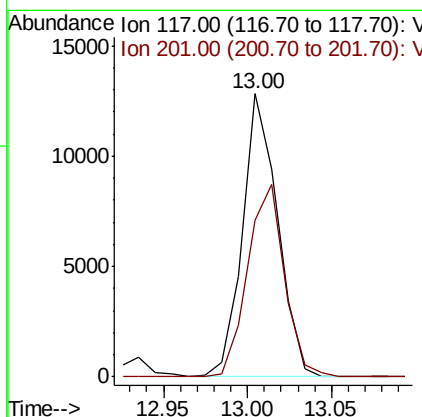
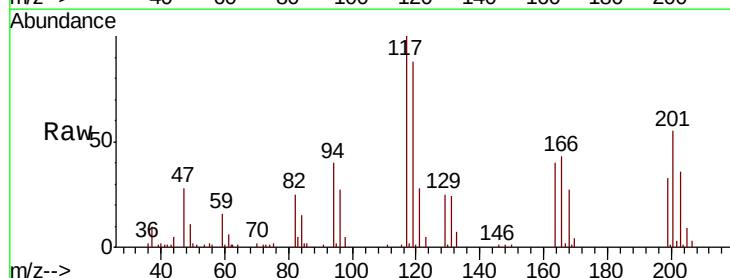
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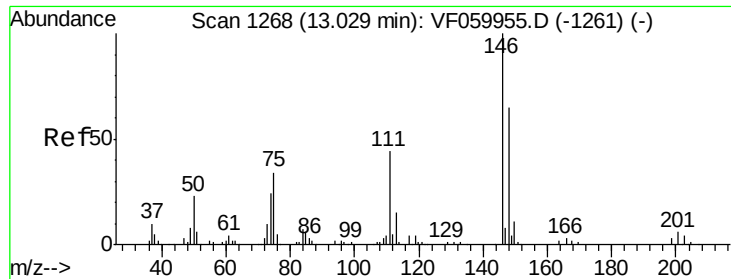
apatel
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#90
Hexachloroethane
Concen: 9.89 ug/l
RT: 13.00 min Scan# 1265
Delta R.T. -0.01 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	18540		
201	55.4	41.8	125.3	





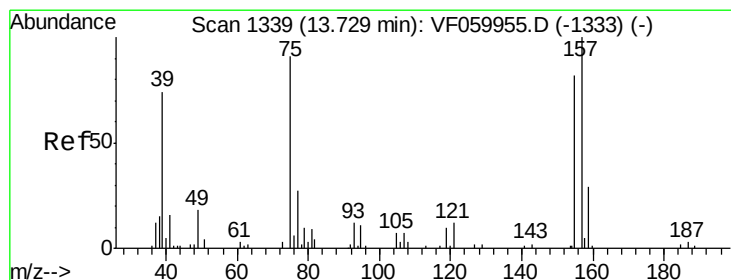
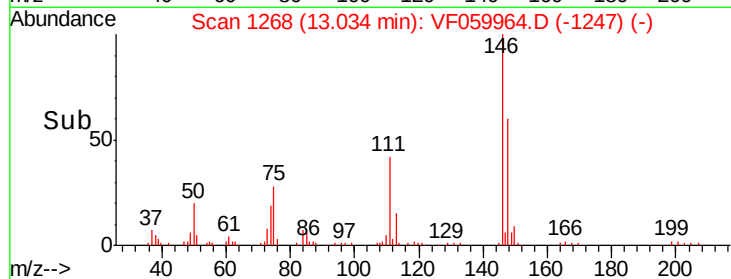
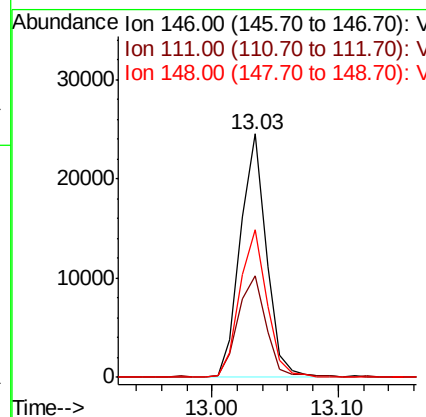
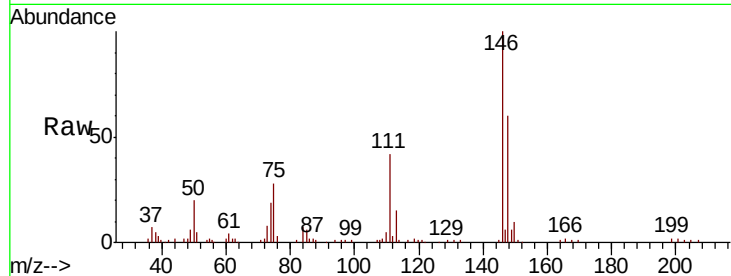
#91
 1,2-Dichlorobenzene
 Concen: 9.89 ug/l
 RT: 13.03 min Scan# 1268
 Delta R.T. 0.00 min
 Lab File: VF059964.D
 Acq: 15 Aug 2018 1:09

Instrument :
 MSVOA_F
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.9	22.0	66.0
148	60.5	32.4	97.0

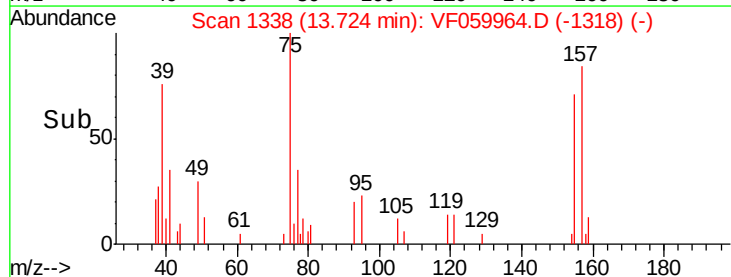
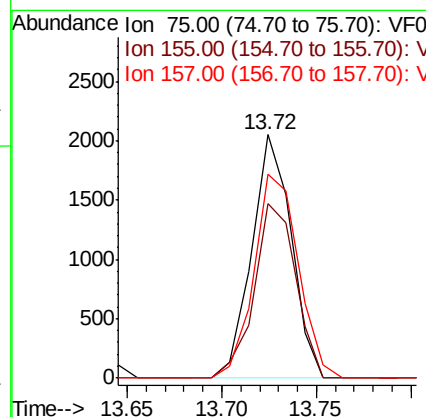
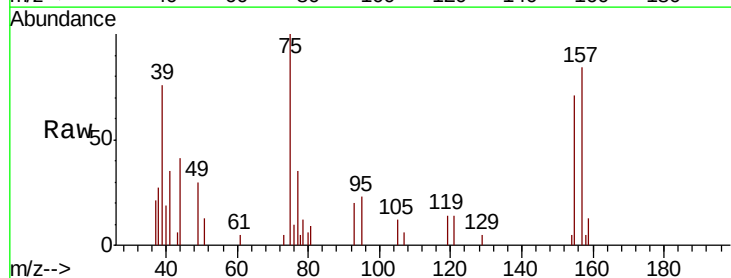
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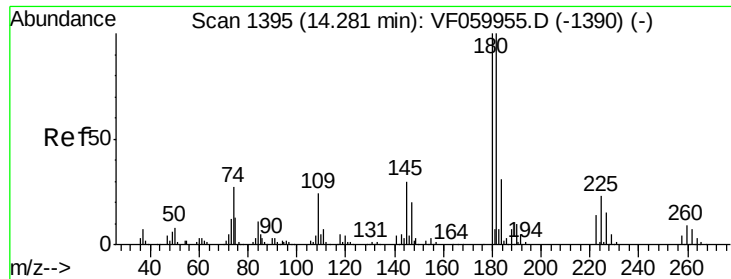
apatel
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 8.85 ug/l
 RT: 13.72 min Scan# 1338
 Delta R.T. -0.01 min
 Lab File: VF059964.D
 Acq: 15 Aug 2018 1:09

Tgt Ion	Ratio	Lower	Upper
75	100		
155	71.5	44.6	134.0
157	83.9	54.8	164.3





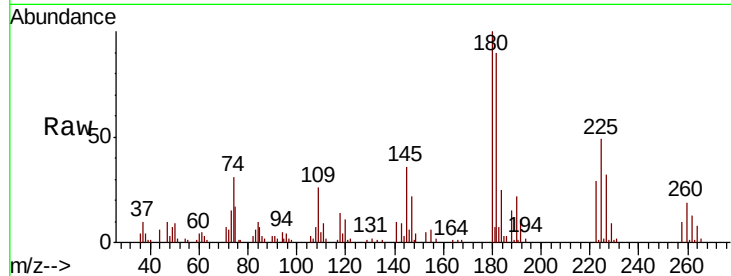
#93
1,2,4-Trichlorobenzene
Concen: 9.76 ug/l
RT: 14.28 min Scan# 1394
Delta R.T. -0.01 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT3-2018

Tot Ion	Ratio	Resp	Lower	Upper
180	100	27761		
182	89.8	50.2	150.7	
145	35.8	14.9	44.9	

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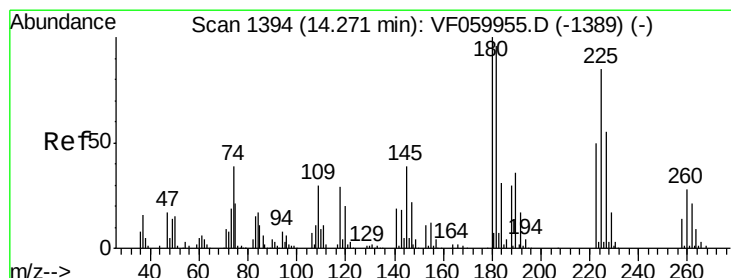
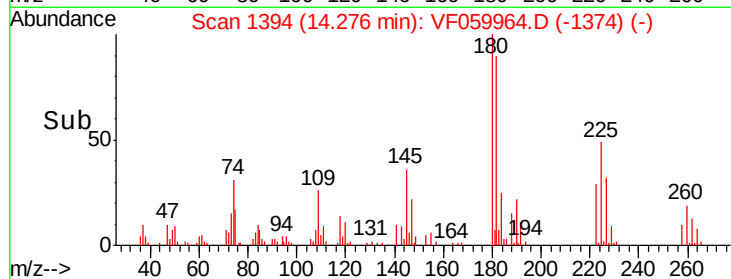
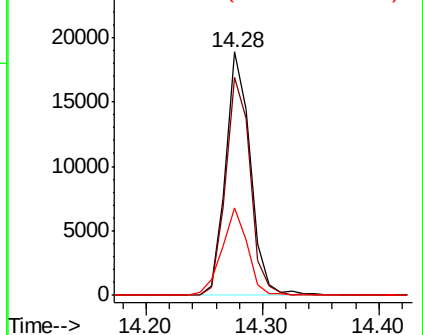


Abundance

Ion 180.00 (179.70 to 180.70): V

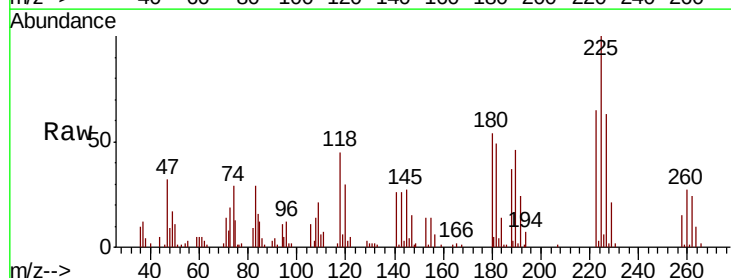
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94
Hexachlorobutadiene
Concen: 8.85 ug/l
RT: 14.27 min Scan# 1393
Delta R.T. -0.01 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	18004		
223	68.4	29.6	88.8	
227	65.4	32.5	97.5	

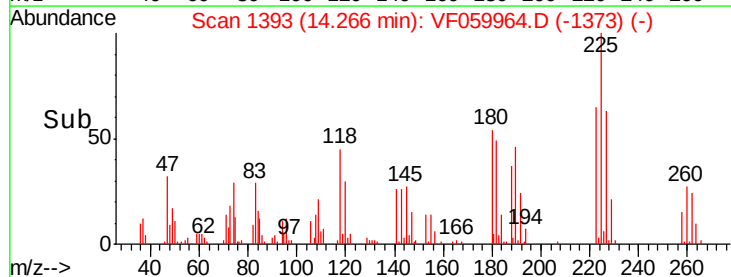
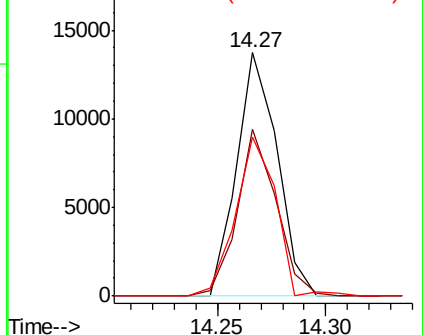


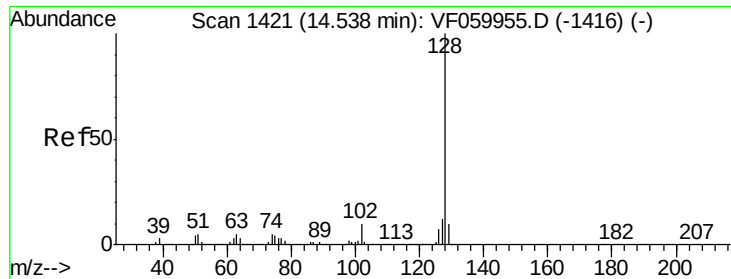
Abundance

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





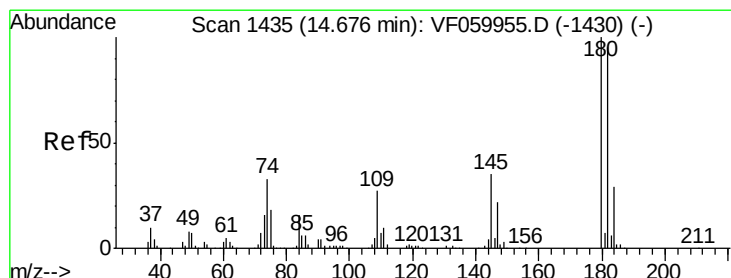
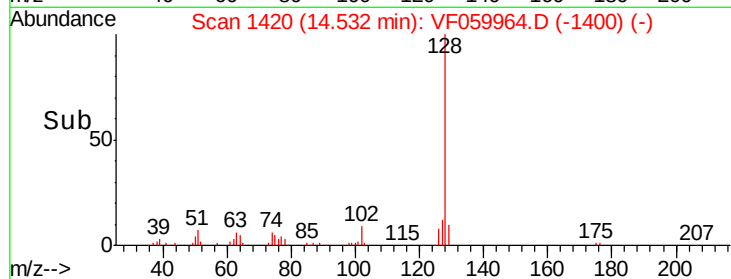
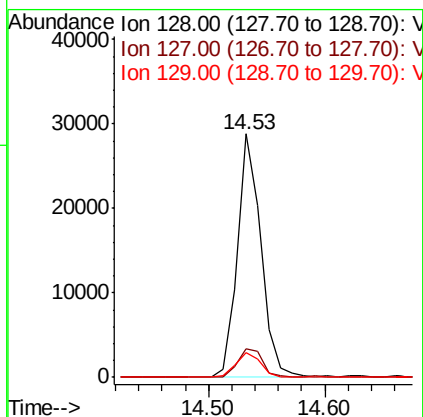
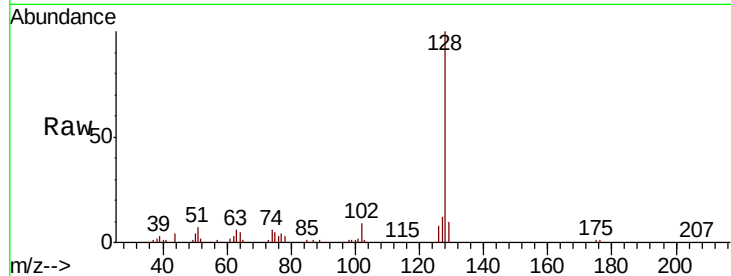
#95
Naphthalene
Concen: 8.71 ug/l
RT: 14.53 min Scan# 1420
Delta R.T. -0.01 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Instrument :
MSVOA_F
ClientSampleId :
LOQ-SOIL-02-QT3-2018

Tot Ion	Ratio	Resp	Lower	Upper
128	100	40481		
127	11.5		9.9	14.9
129	9.9		8.4	12.6

Manual Integrations
APPROVED

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#96
1,2,3-Trichlorobenzene
Concen: 9.31 ug/l
RT: 14.68 min Scan# 1435
Delta R.T. 0.00 min
Lab File: VF059964.D
Acq: 15 Aug 2018 1:09

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	25280		
182	100.3		47.5	142.6
145	31.8		17.6	52.8

