

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW070819\
 Data File : VW011167.D
 Acq On : 08 Jul 2019 18:07
 Operator : SY/VA
 Sample : K3591-02L005PPB
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT3-2019

Manual Integrations
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 7/9/2019 4:13:28 PM

Quant Time: Jul 09 07:19:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W070819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 09 07:10:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	227438	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	377070	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	336435	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	165853	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	140436	49.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.28%	
35) Dibromofluoromethane	7.88	113	108849	48.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.86%	
50) Toluene-d8	10.32	98	444965	48.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.96%	
62) 4-Bromofluorobenzene	12.62	95	161989	48.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.30%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	7571	4.463	ug/l	96
3) Chloromethane	2.21	50	11378	5.206	ug/l	100
4) Vinyl Chloride	2.35	62	14341	5.013	ug/l	92
5) Bromomethane	2.77	94	7658	5.327	ug/l	90
6) Chloroethane	2.92	64	7376	4.787	ug/l	99
7) Trichlorofluoromethane	3.24	101	3820	3.759	ug/l	94
8) Diethyl Ether	3.68	74	6763	4.809	ug/l	83
9) 1,1,2-Trichlorotrifluoroet	4.06	101	11885	4.882	ug/l	97
10) Methyl Iodide	4.28	142	16553	4.944	ug/l	99
11) Tert butyl alcohol	5.17	59	5566	26.306	ug/l	94
12) 1,1-Dichloroethene	4.03	96	12301	4.869	ug/l	93
13) Acrolein	3.90	56	3319	19.699	ug/l	90
14) Allyl chloride	4.66	41	20274	4.400	ug/l	98
15) Acrylonitrile	5.37	53	16859	23.541	ug/l	95
16) Acetone	4.12	43	16625	24.177	ug/l	99
17) Carbon Disulfide	4.38	76	34052	4.446	ug/l	97
18) Methyl Acetate	4.67	43	16414	7.633	ug/l	97
19) Methyl tert-butyl Ether	5.43	73	19704	5.140	ug/l	98
20) Methylene Chloride	4.92	84	17470	6.440	ug/l	90
21) trans-1,2-Dichloroethene	5.42	96	13361	5.089	ug/l	85
22) Diisopropyl ether	6.31	45	48923	4.937	ug/l	97
23) Vinyl Acetate	6.25	43	119795	19.534	ug/l	99
24) 1,1-Dichloroethane	6.21	63	25718	4.942	ug/l	97
25) 2-Butanone	7.17	43	25084	23.239	ug/l	94
26) 2,2-Dichloropropane	7.16	77	12804	4.734	ug/l	97
27) cis-1,2-Dichloroethene	7.16	96	14151	4.997	ug/l	99
28) Bromochloromethane	7.51	49	12865	5.437	ug/l	97
29) Tetrahydrofuran	7.52	42	17103	24.165	ug/l	98
30) Chloroform	7.67	83	25403	5.271	ug/l	95
31) Cyclohexane	7.95	56	30691	5.544	ug/l #	76
32) 1,1,1-Trichloroethane	7.86	97	18078	4.931	ug/l	98
36) 1,1-Dichloropropene	8.08	75	20120	5.011	ug/l	98
37) Ethyl Acetate	7.25	43	11979	4.965	ug/l	99
38) Carbon Tetrachloride	8.07	117	16140	4.742	ug/l	92

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 Quant Title : SW846 8260
 QLast Update : Tue Jul 09 07:10:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.33	83	24235	4.980	ug/l	94
40) Benzene	8.32	78	56552	5.096	ug/l	98
41) Methacrylonitrile	7.49	41	6552	4.748	ug/l	96
42) 1,2-Dichloroethane	8.40	62	18432	5.120	ug/l	98
43) Isopropyl Acetate	8.42	43	21387	4.695	ug/l	96
44) Trichloroethene	9.09	130	13345	4.997	ug/l	94
45) 1,2-Dichloropropane	9.37	63	15319	5.098	ug/l	97
46) Dibromomethane	9.46	93	7066	5.006	ug/l	99
47) Bromodichloromethane	9.64	83	17201	4.762	ug/l	98
48) Methyl methacrylate	9.44	41	10037	4.580	ug/l	96
49) 1,4-Dioxane	9.45	88	2283	96.891	ug/l #	86
51) 4-Methyl-2-Pentanone	10.21	43	55789	23.447	ug/l	100
52) Toluene	10.38	92	34559	5.134	ug/l	98
53) t-1,3-Dichloropropene	10.60	75	16850	4.383	ug/l	96
54) cis-1,3-Dichloropropene	10.07	75	20324	4.491	ug/l	98
55) 1,1,2-Trichloroethane	10.79	97	9838	4.913	ug/l	92
56) Ethyl methacrylate	10.65	69	14213	4.662	ug/l	97
57) 1,3-Dichloropropane	10.93	76	18725	4.945	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.92	63	33852	23.949	ug/l	99
59) 2-Hexanone	10.97	43	36573	22.164	ug/l	97
60) Dibromochloromethane	11.12	129	9858	4.489	ug/l	99
61) 1,2-Dibromoethane	11.24	107	9222	4.862	ug/l	100
64) Tetrachloroethene	10.86	164	11895	5.240	ug/l	97
65) Chlorobenzene	11.66	112	34845	5.094	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.73	131	11601	4.817	ug/l	98
67) Ethyl Benzene	11.73	91	64008	4.888	ug/l	96
68) m/p-Xylenes	11.84	106	46226	9.756	ug/l	100
69) o-Xylene	12.17	106	21815	4.885	ug/l	98
70) Styrene	12.18	104	36444	4.729	ug/l	100
71) Bromoform	12.35	173	5241	4.093	ug/l #	92
73) Isopropylbenzene	12.46	105	58563	4.724	ug/l	99
74) N-amyl acetate	12.27	43	18508	4.286	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.71	83	12227	4.811	ug/l	98
76) 1,2,3-Trichloropropane	12.77	75	8485m	4.427	ug/l	
77) Bromobenzene	12.75	156	13502	4.853	ug/l	98
78) n-propylbenzene	12.80	91	73365	4.804	ug/l	100
79) 2-Chlorotoluene	12.89	91	43114	4.906	ug/l	98
80) 1,3,5-Trimethylbenzene	12.94	105	50561	4.800	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.51	75	3239	3.822	ug/l	87
82) 4-Chlorotoluene	12.99	91	45355	4.955	ug/l	99
83) tert-Butylbenzene	13.21	119	41547	4.730	ug/l	98
84) 1,2,4-Trimethylbenzene	13.25	105	51505	4.870	ug/l	97
85) sec-Butylbenzene	13.38	105	61397	4.844	ug/l	100
86) p-Isopropyltoluene	13.50	119	54162	4.764	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	27364	5.112	ug/l	100
88) 1,4-Dichlorobenzene	13.58	146	27272	5.059	ug/l	91
89) n-Butylbenzene	13.82	91	54587	4.813	ug/l	99
90) Hexachloroethane	14.10	117	9210	4.433	ug/l	100
91) 1,2-Dichlorobenzene	13.87	146	24155	4.974	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.49	75	2234	4.956	ug/l	90

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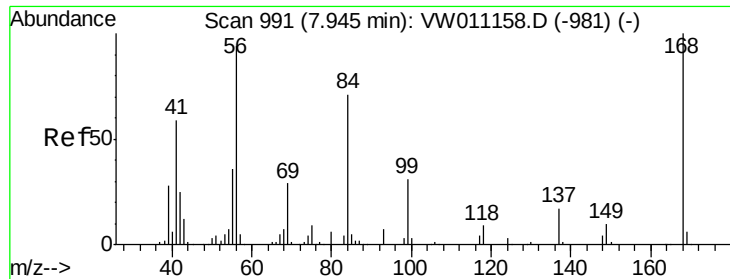
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	16260	4.861	ug/l	97
94) Hexachlorobutadiene	15.24	225	10662	5.192	ug/l	98
95) Naphthalene	15.37	128	27753	4.330	ug/l	99
96) 1,2,3-Trichlorobenzene	15.56	180	14201	4.810	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT3-2019

Tot Ion:168 Resp: 227438

Ion Ratio Lower Upper

168 100

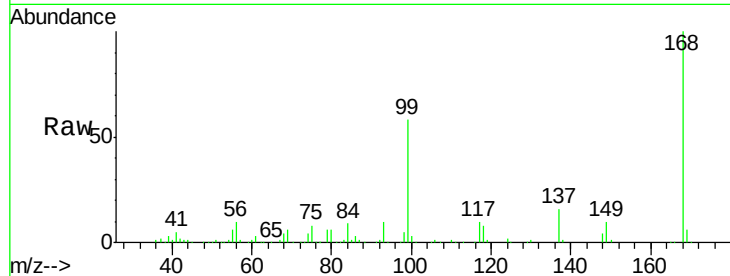
99 58.0 50.1 75.1

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

60000

40000

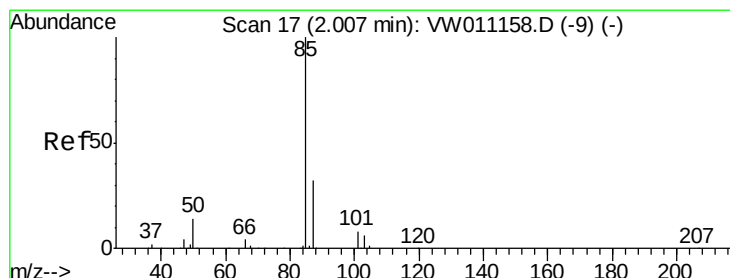
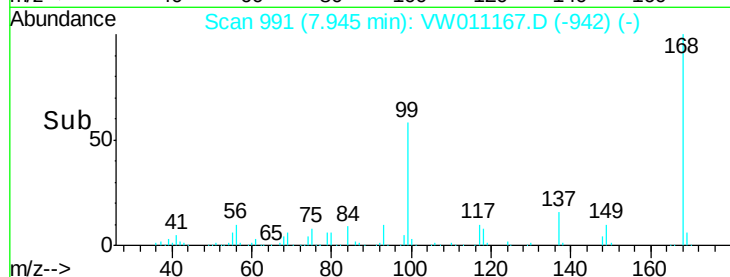
20000

0

7.90

8.00

Time-->



#2

Dichlorodifluoromethane

Concen: 4.463 ug/l

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW011167.D

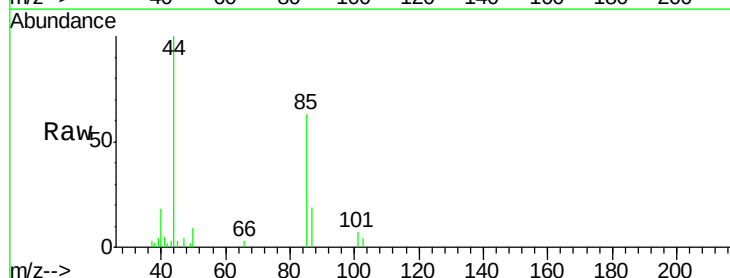
Acq: 08 Jul 2019 18:07

Tgt Ion: 85 Resp: 7571

Ion Ratio Lower Upper

85 100

87 29.7 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

3000

2500

2000

1500

1000

500

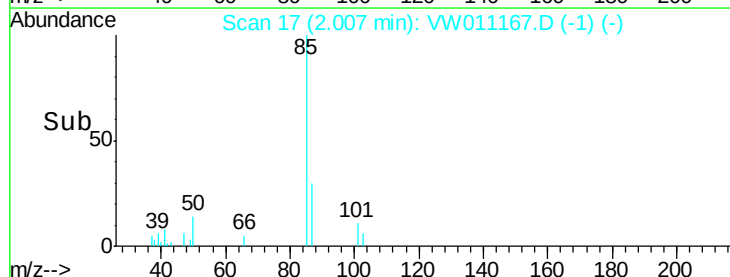
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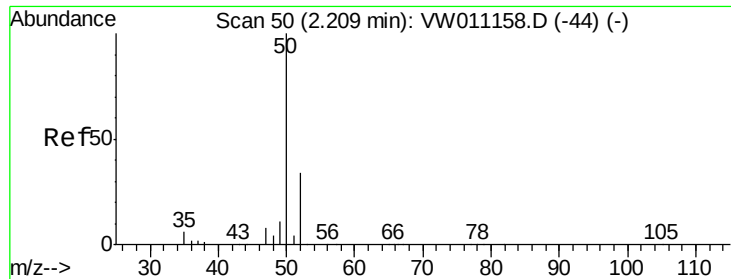
1.90

2.00

2.10

Time-->





#3

Chloromethane

Concen: 5.206 ug/l

RT: 2.21 min Scan# 50

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT3-2019

Tot Ion: 50 Resp: 11378

Ion Ratio Lower Upper

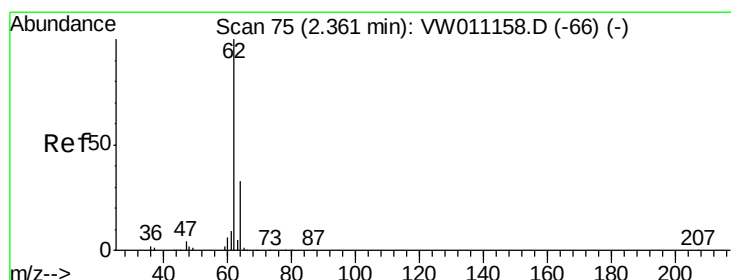
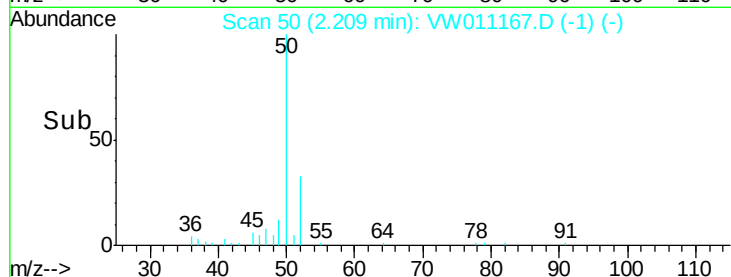
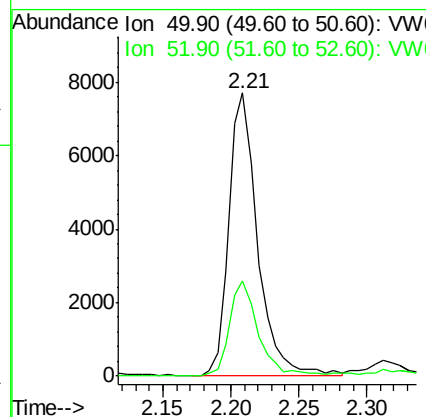
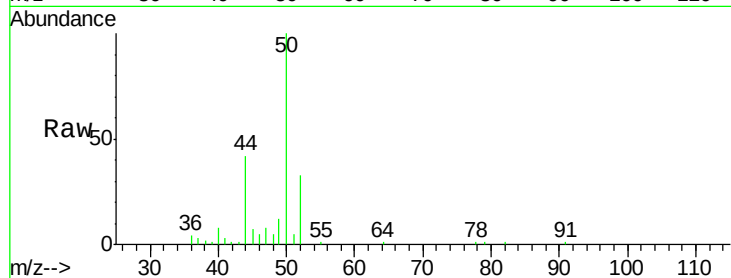
50 100

52 33.5 26.9 40.3

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#4

Vinyl Chloride

Concen: 5.013 ug/l

RT: 2.35 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW011167.D

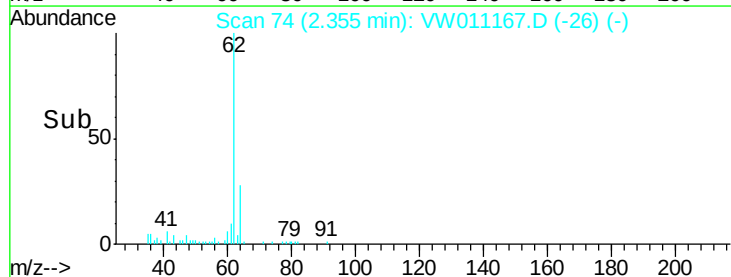
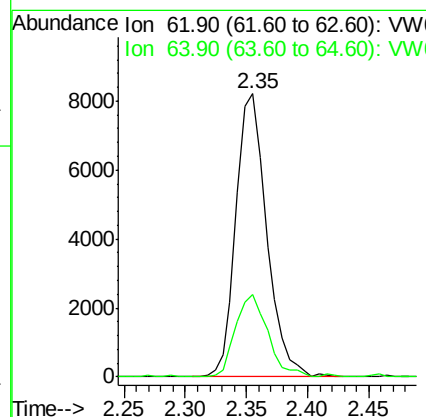
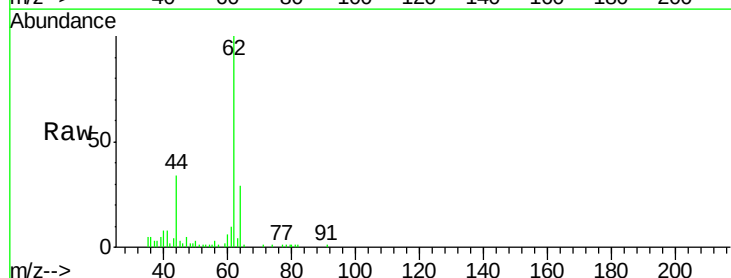
Acq: 08 Jul 2019 18:07

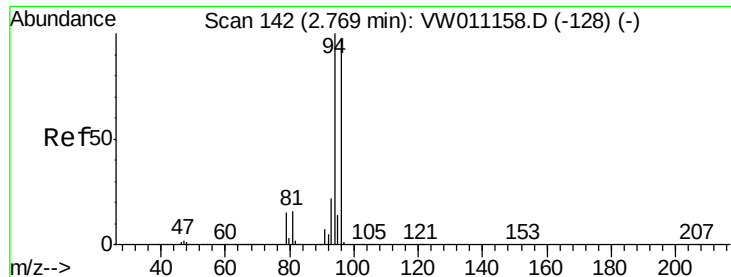
Tgt Ion: 62 Resp: 14341

Ion Ratio Lower Upper

62 100

64 28.9 26.6 40.0





#5

Bromomethane

Concen: 5.327 ug/l

RT: 2.77 min Scan# 142

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT3-2019

Tot Ion: 94 Resp: 7658

Ion Ratio Lower Upper

94 100

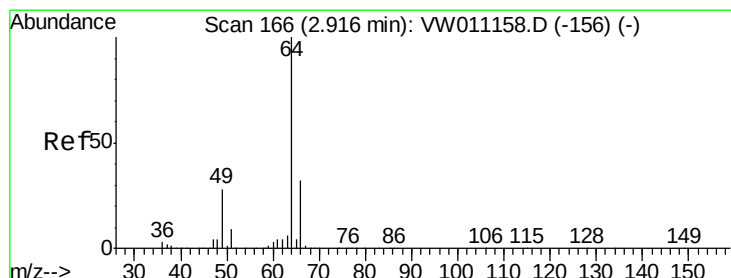
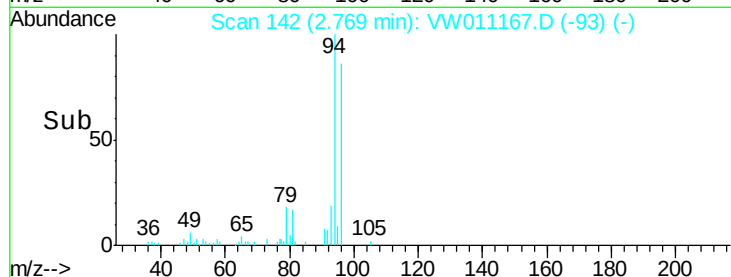
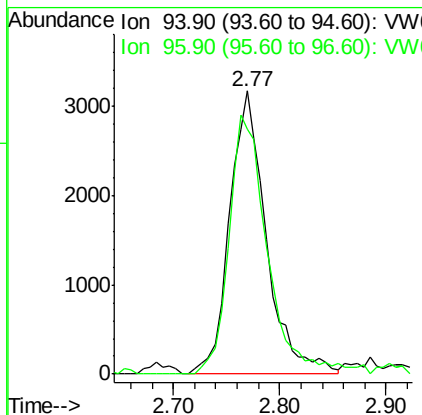
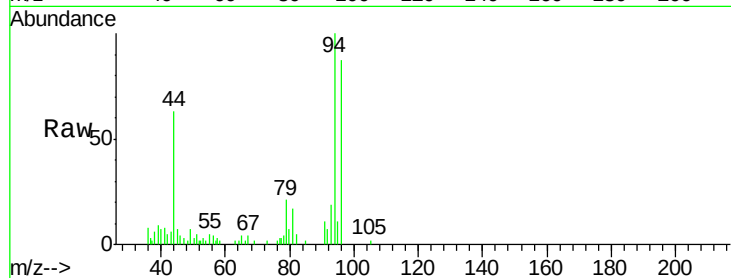
96 86.7 77.4 116.0

Manual Integrations

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#6

Chloroethane

Concen: 4.787 ug/l

RT: 2.92 min Scan# 166

Delta R.T. 0.00 min

Lab File: VW011167.D

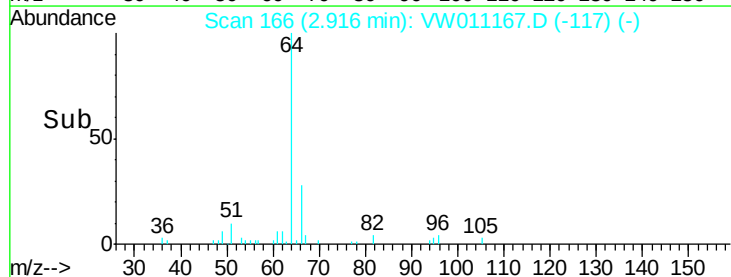
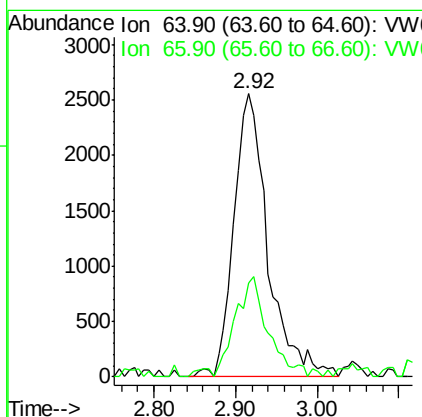
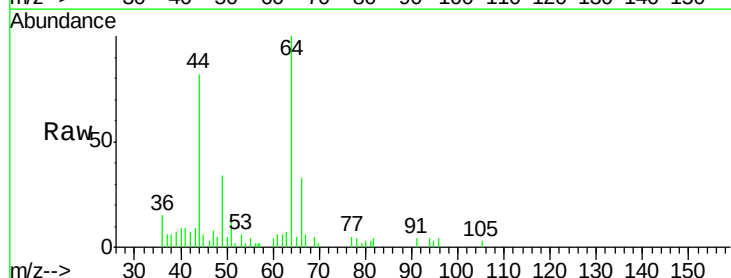
Acq: 08 Jul 2019 18:07

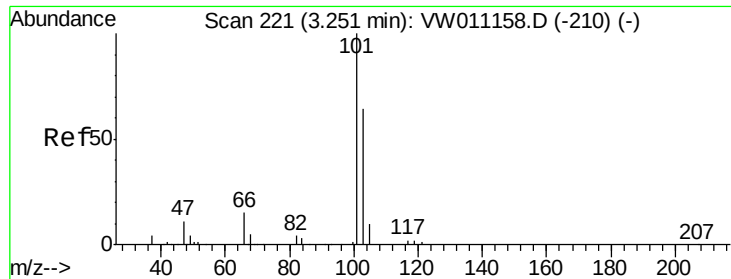
Tgt Ion: 64 Resp: 7376

Ion Ratio Lower Upper

64 100

66 33.0 25.8 38.8





#7

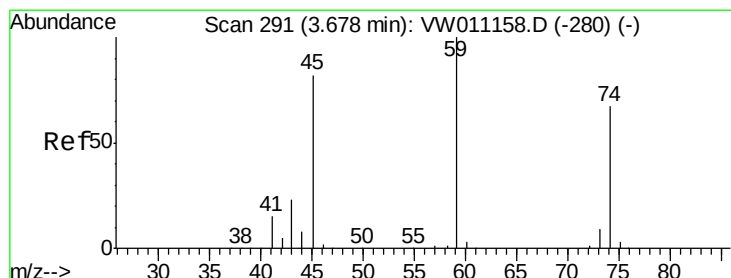
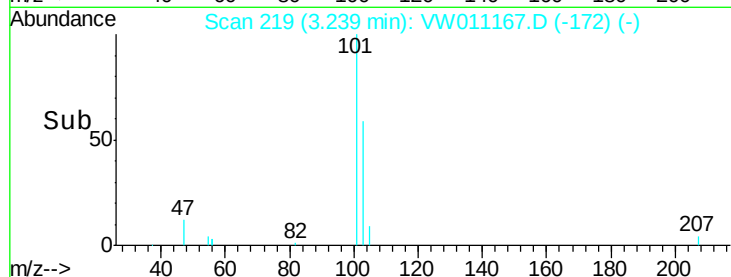
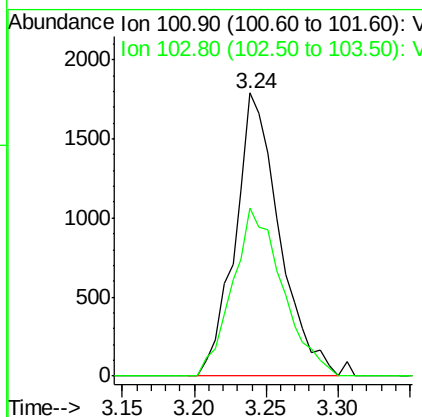
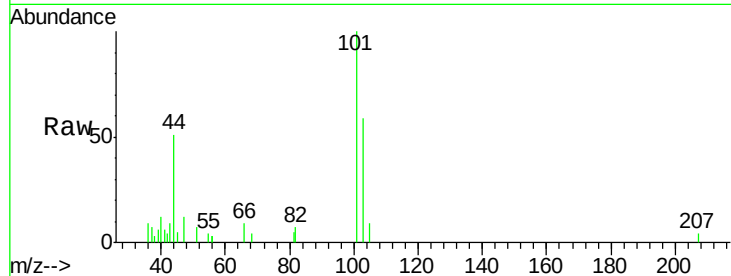
Trichlorofluoromethane
 Concen: 3.759 ug/l
 RT: 3.24 min Scan# 219
 Delta R.T. -0.01 min
 Lab File: VW011167.D
 Acq: 08 Jul 2019 18:07

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
101	100		
103	59.5	51.3	76.9

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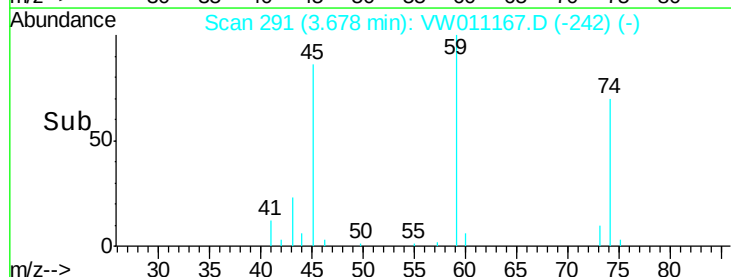
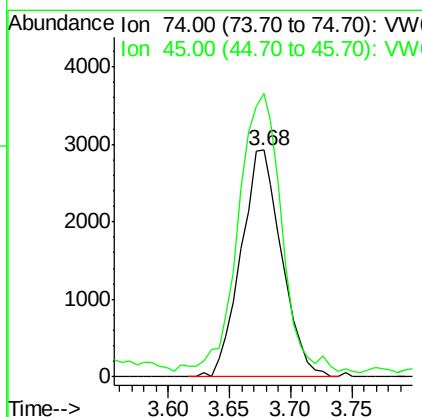
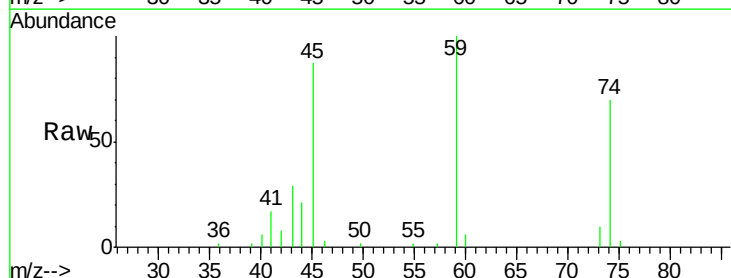
MMDadoda
 7/9/2019 4:13:28 PM

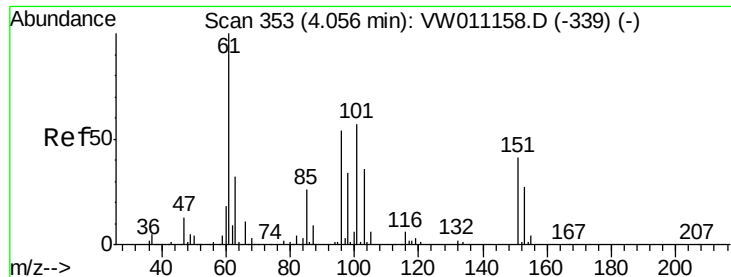


#8

Diethyl Ether
 Concen: 4.809 ug/l
 RT: 3.68 min Scan# 291
 Delta R.T. 0.00 min
 Lab File: VW011167.D
 Acq: 08 Jul 2019 18:07

Tgt Ion	Ratio	Lower	Upper
74	100		
45	139.0	59.9	179.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.882 ug/l

RT: 4.06 min Scan# 354

Delta R.T. 0.01 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

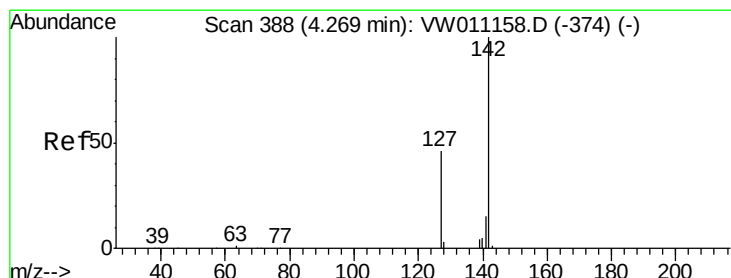
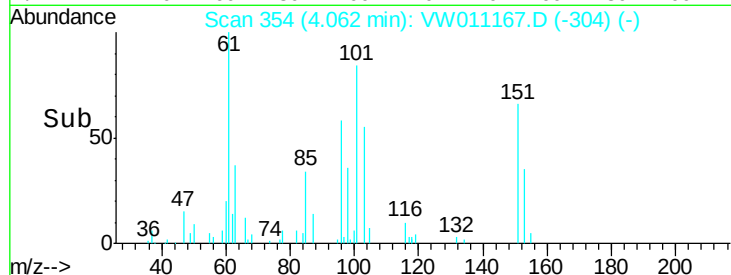
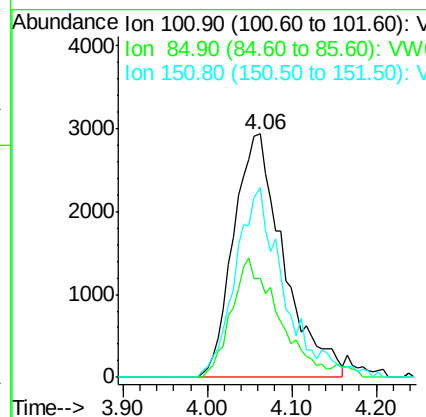
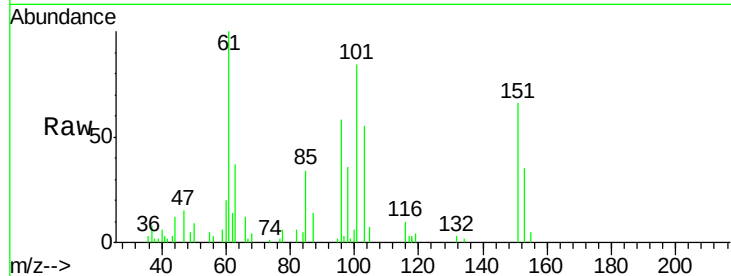
ClientSampleId :

LOQ-SOIL-02-QT3-2019

Tot Ion:	101	Resp:	11885
Ion Ratio	Lower	Upper	
101	100		
85	45.9	36.5	54.7
151	70.5	59.1	88.7

Manual Integrations
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#10

Methyl Iodide

Concen: 4.944 ug/l

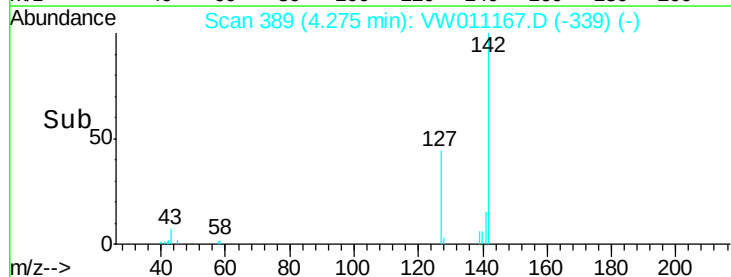
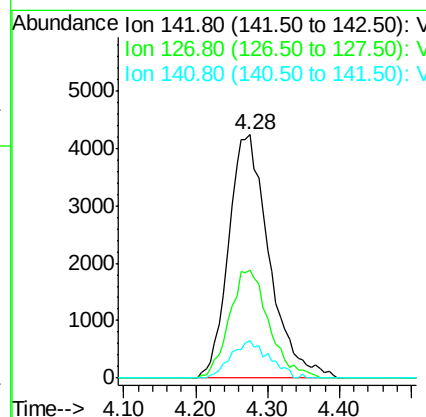
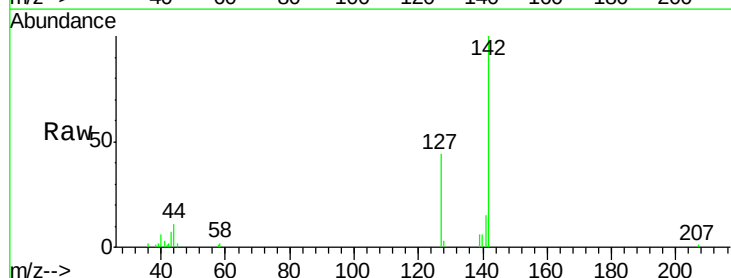
RT: 4.28 min Scan# 389

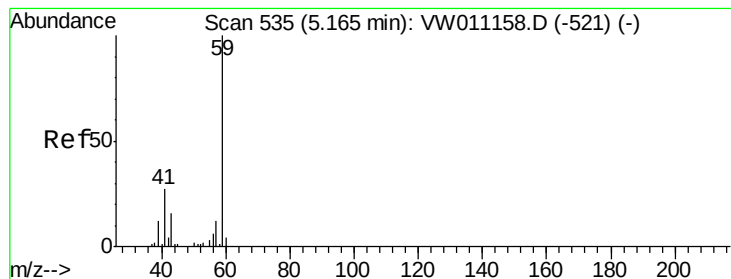
Delta R.T. 0.01 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Tgt Ion:	142	Resp:	16553
Ion Ratio	Lower	Upper	
142	100		
127	43.5	35.7	53.5
141	14.4	11.5	17.3





#11

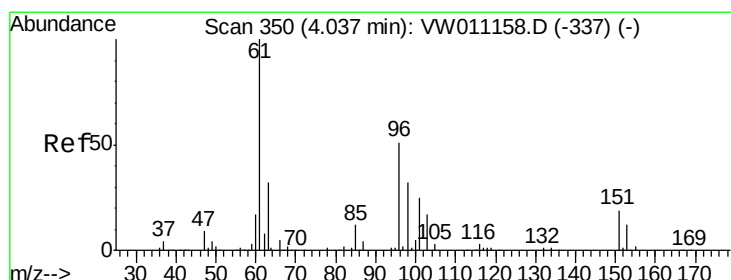
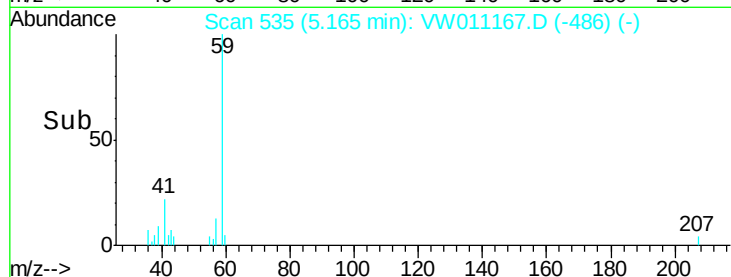
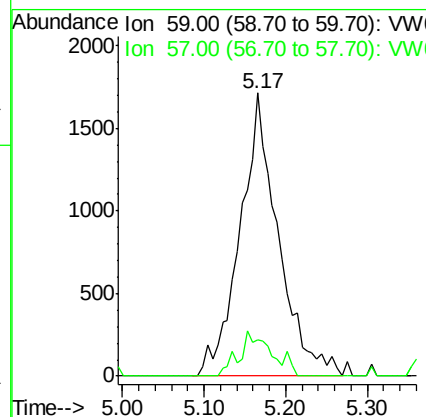
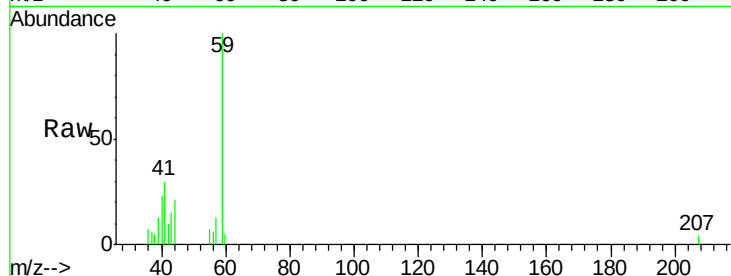
Tert butyl alcohol
Concen: 26.306 ug/l
RT: 5.17 min Scan# 535
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

Tot Ion	Ratio	Resp	Lower	Upper
59	100	5566		
57	13.5		9.0	13.6

Manual Integrations
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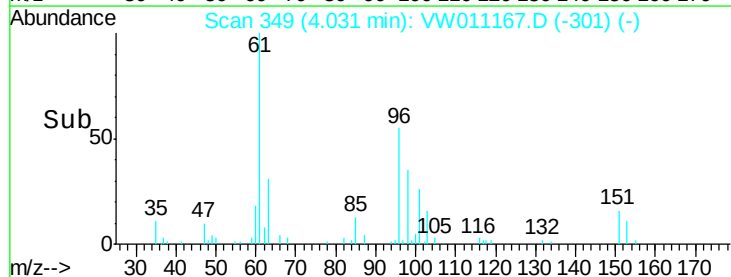
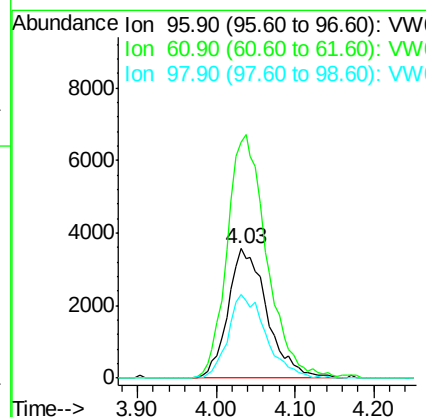
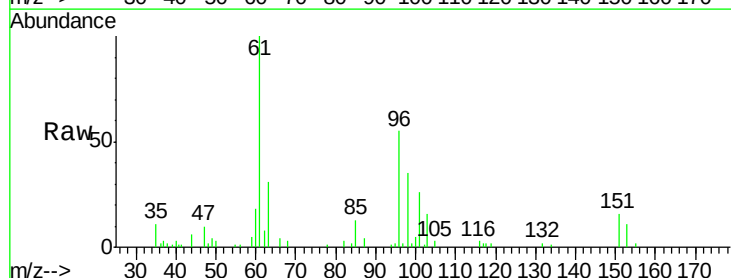
MMDadoda
7/9/2019 4:13:28 PM

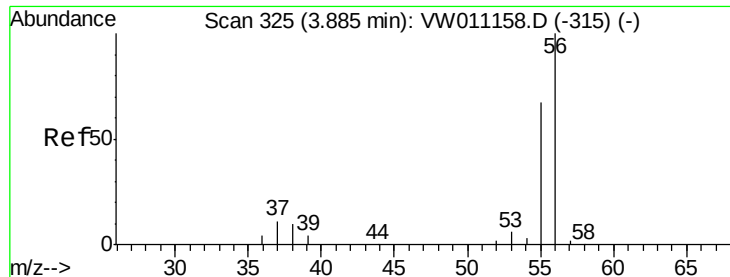


#12

1,1-Dichloroethene
Concen: 4.869 ug/l
RT: 4.03 min Scan# 349
Delta R.T. -0.01 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	12301		
61	182.5		157.7	236.5
98	64.1		50.9	76.3





#13

Acrolein

Concen: 19.699 ug/l

RT: 3.90 min Scan# 327

Delta R.T. 0.01 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT3-2019

Tot Ion: 56 Resp: 3319

Ion Ratio Lower Upper

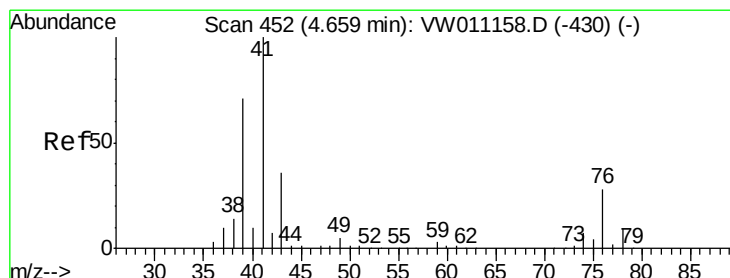
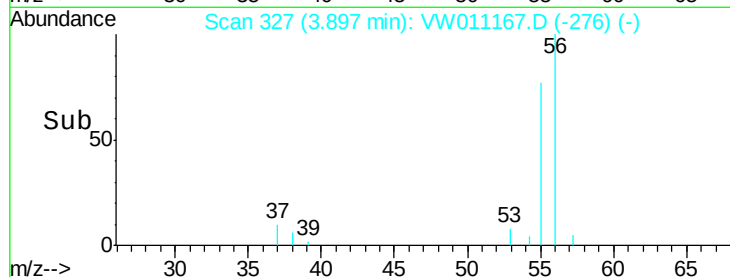
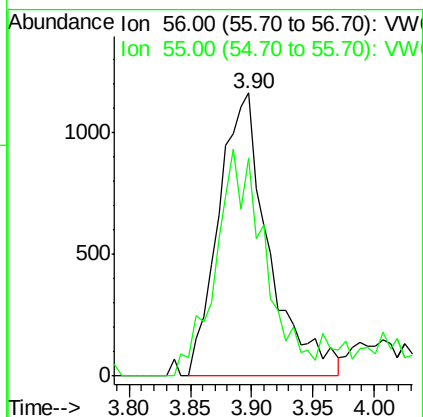
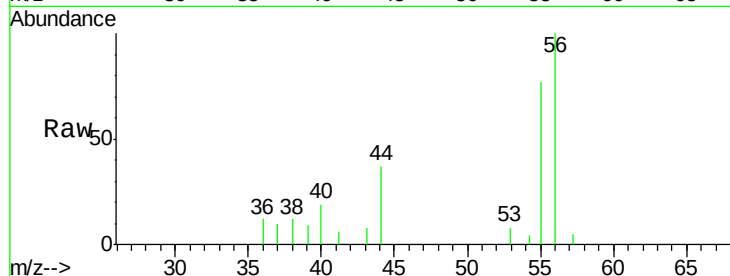
56 100

55 78.8 56.4 84.6

Manual Integrations
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#14

Allyl chloride

Concen: 4.400 ug/l

RT: 4.66 min Scan# 452

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

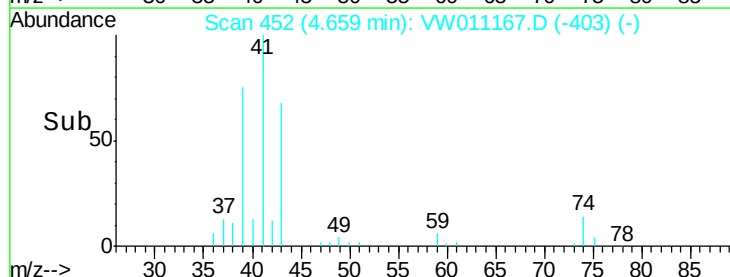
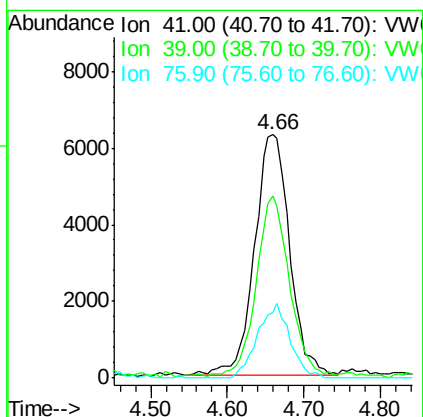
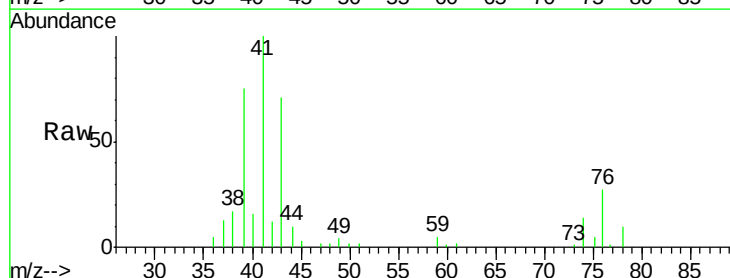
Tgt Ion: 41 Resp: 20274

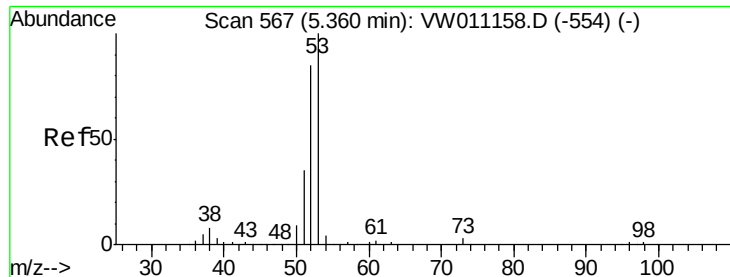
Ion Ratio Lower Upper

41 100

39 70.6 55.1 82.7

76 28.3 22.5 33.7





#15

Acrylonitrile

Concen: 23.541 ug/l

RT: 5.37 min Scan# 568

Delta R.T. 0.01 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

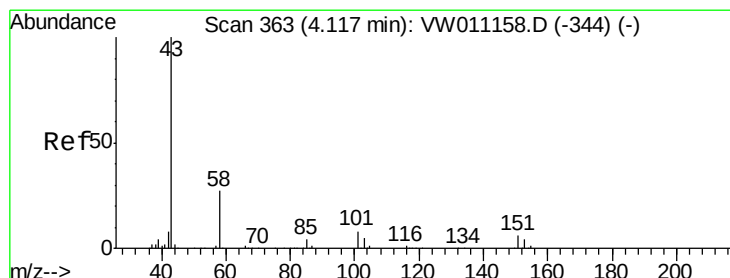
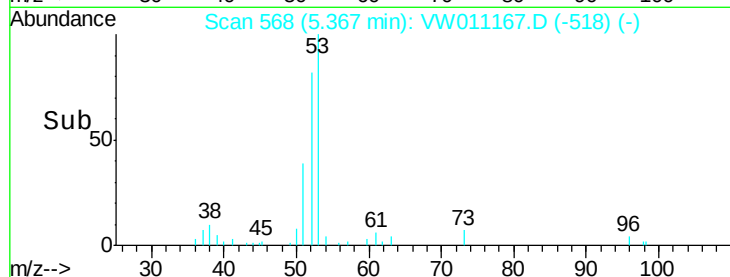
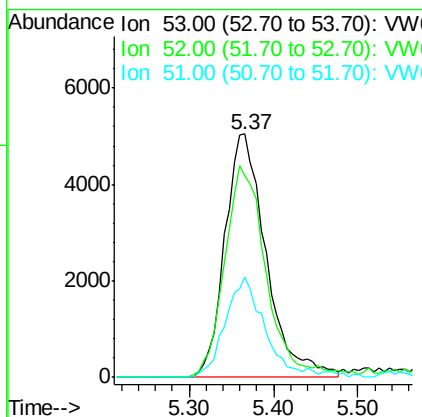
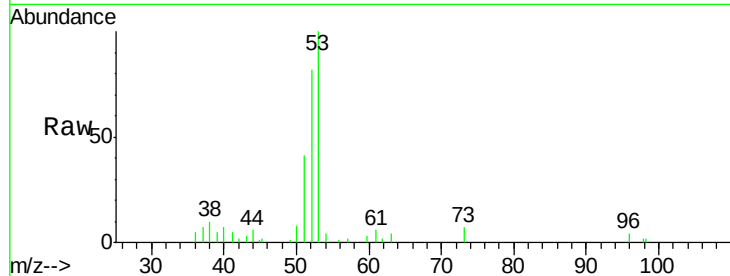
ClientSampleId :

LOQ-SOIL-02-QT3-2019

Tot Ion:	53	Resp:	16859
Ion	Ratio	Lower	Upper
53	100		
52	87.9	66.2	99.4
51	38.2	29.1	43.7

Manual Integrations
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#16

Acetone

Concen: 24.177 ug/l

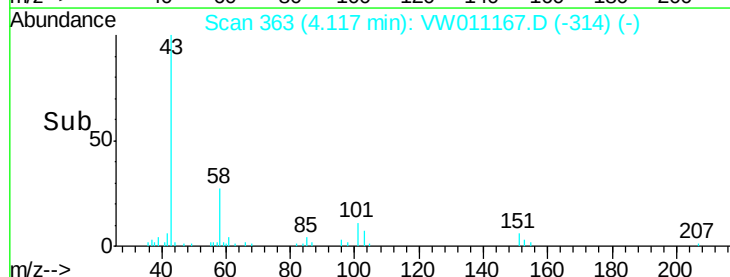
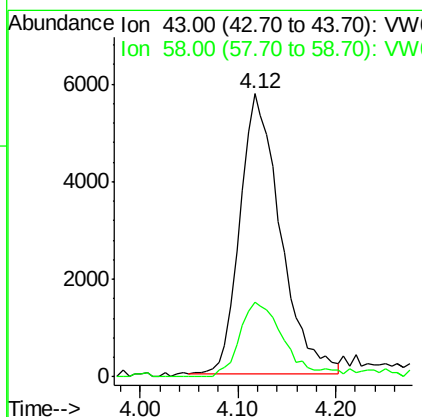
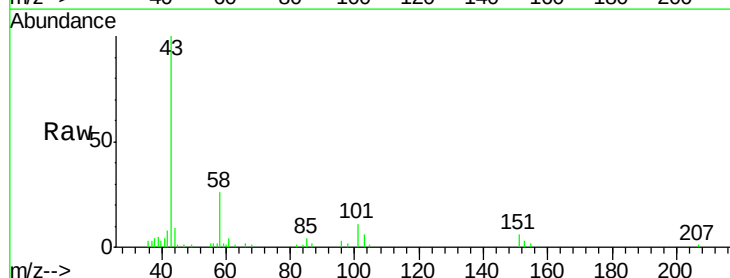
RT: 4.12 min Scan# 363

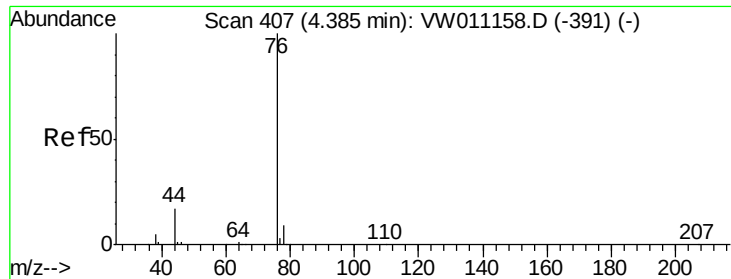
Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Tgt Ion:	43	Resp:	16625
Ion	Ratio	Lower	Upper
43	100		
58	26.7	21.8	32.6





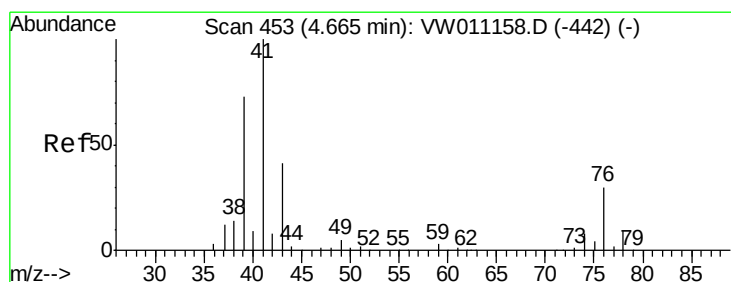
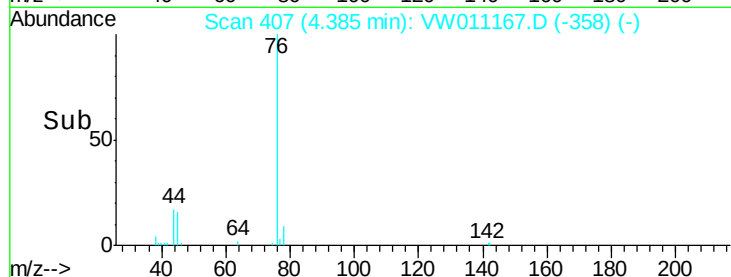
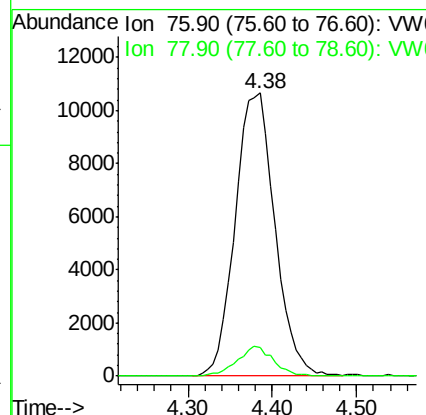
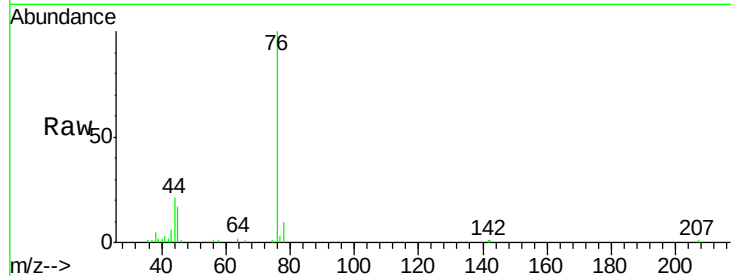
#17
Carbon Disulfide
Concen: 4.446 ug/l
RT: 4.38 min Scan# 407
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

Tot Ion: 76 Resp: 34052
Ion Ratio Lower Upper
76 100
78 10.0 7.1 10.7

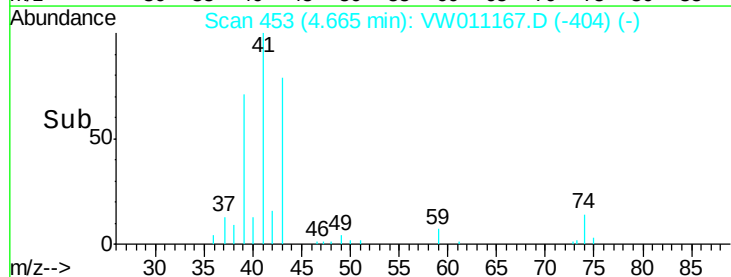
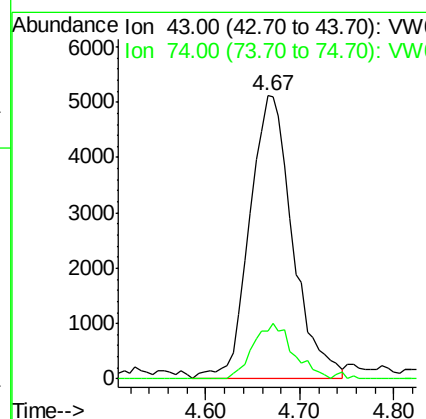
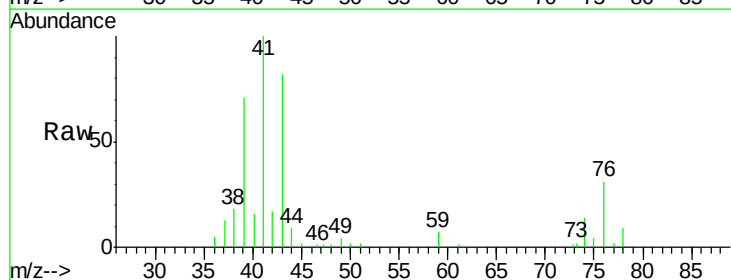
Manual Integrations
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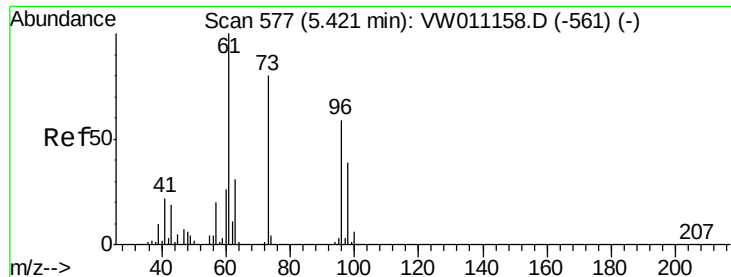
MMDadoda
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#18
Methyl Acetate
Concen: 7.633 ug/l
RT: 4.67 min Scan# 453
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion: 43 Resp: 16414
Ion Ratio Lower Upper
43 100
74 18.2 15.7 23.5





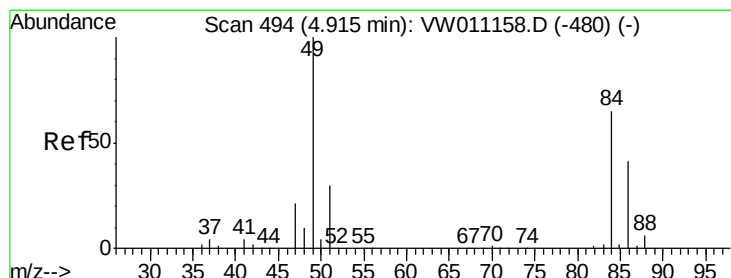
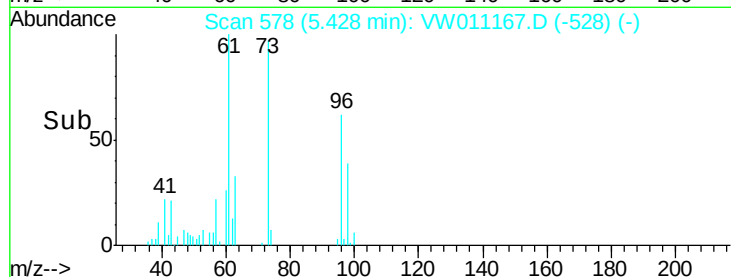
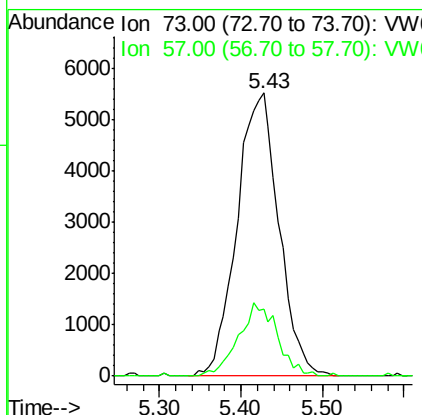
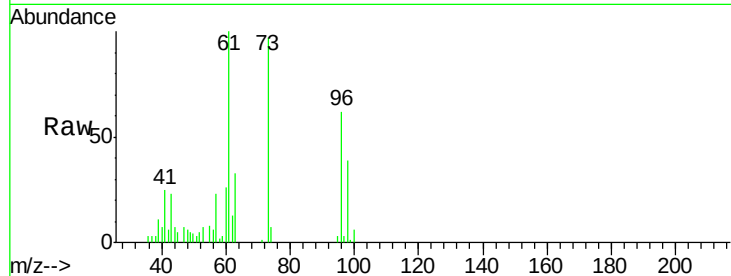
#19
Methyl tert-butyl Ether
Concen: 5.140 ug/l
RT: 5.43 min Scan# 578
Delta R.T. 0.01 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

Tot Ion: 73 Resp: 19704
Ion Ratio Lower Upper
73 100
57 23.8 19.7 29.5

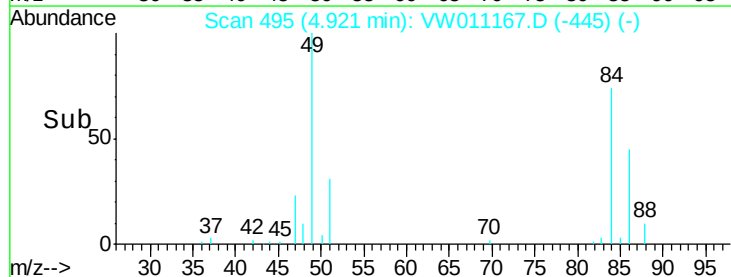
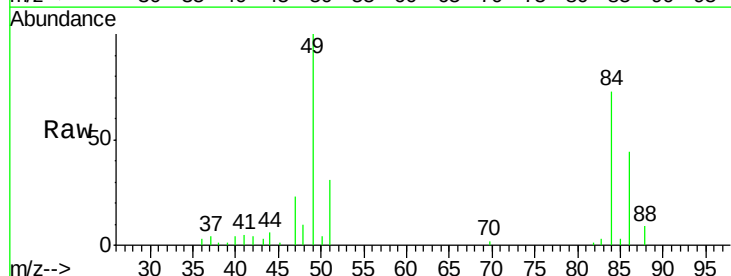
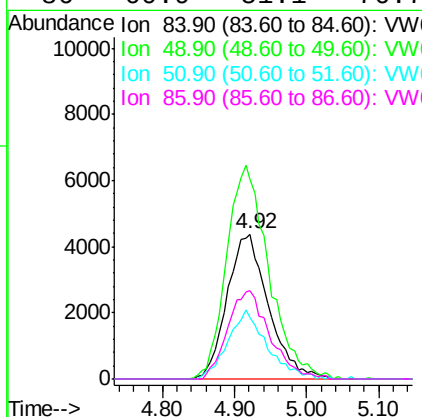
Manual Integrations
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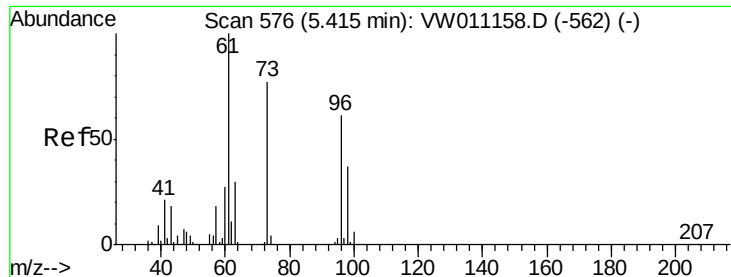
MMDadoda
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#20
Methylene Chloride
Concen: 6.440 ug/l
RT: 4.92 min Scan# 495
Delta R.T. 0.01 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion: 84 Resp: 17470
Ion Ratio Lower Upper
84 100
49 137.3 123.8 185.6
51 42.4 37.4 56.2
86 60.9 51.1 76.7





#21

trans-1,2-Dichloroethene

Concen: 5.089 ug/l

RT: 5.42 min Scan# 577

Delta R.T. 0.01 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

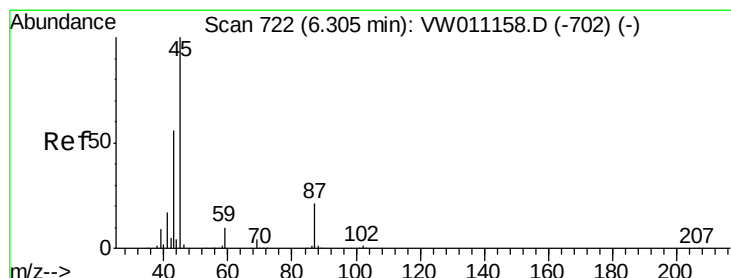
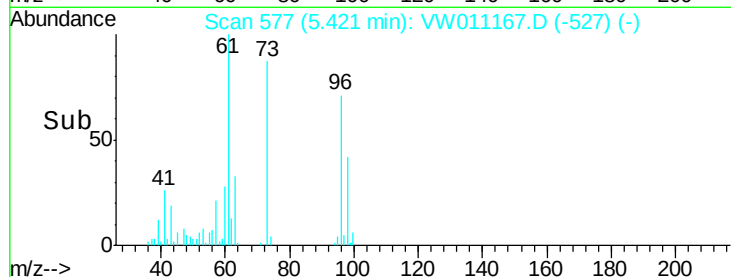
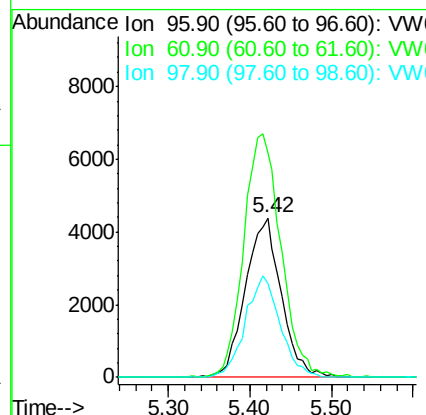
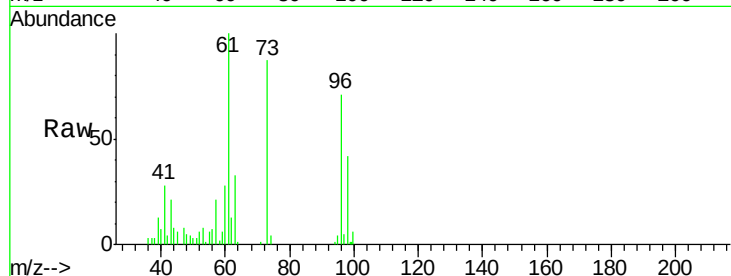
ClientSampleId :

LOQ-SOIL-02-QT3-2019

Tot Ion:	96	Resp:	13361
Ion	Ratio	Lower	Upper
96	100		
61	139.5	132.2	198.2
98	58.4	49.4	74.0

Manual Integrations
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#22

Diisopropyl ether

Concen: 4.937 ug/l

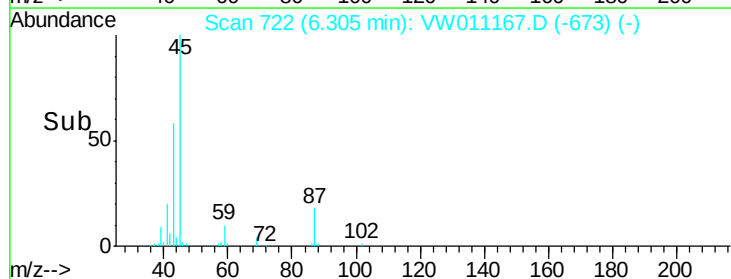
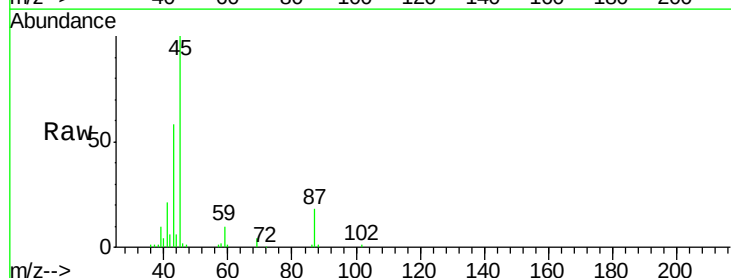
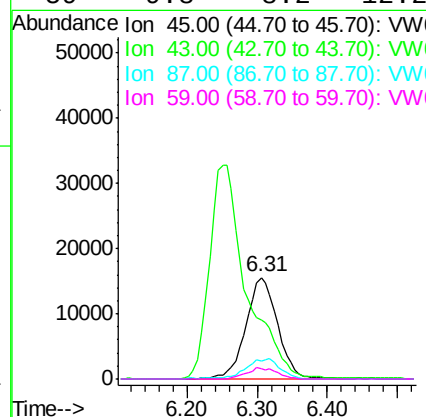
RT: 6.31 min Scan# 722

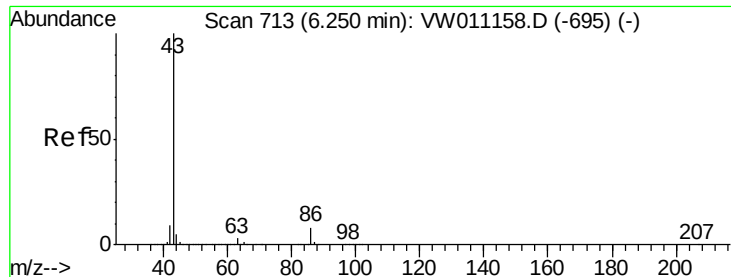
Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Tgt Ion:	45	Resp:	48923
Ion	Ratio	Lower	Upper
45	100		
43	56.2	44.6	66.8
87	17.7	17.3	25.9
59	9.8	8.2	12.2





#23

Vinyl Acetate

Concen: 19.534 ug/l

RT: 6.25 min Scan# 713

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT3-2019

Tot Ion: 43 Resp: 119795

Ion Ratio Lower Upper

43 100

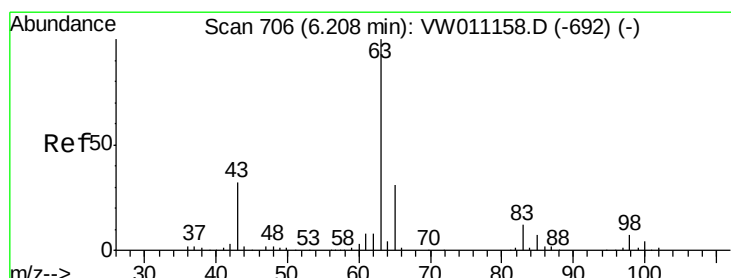
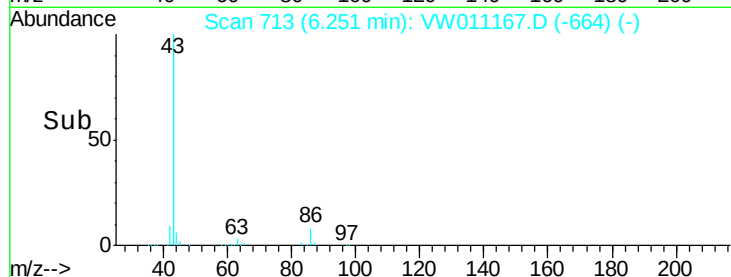
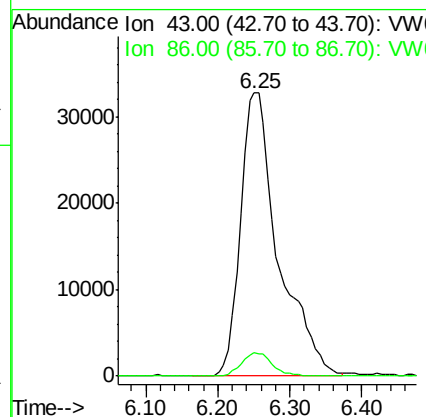
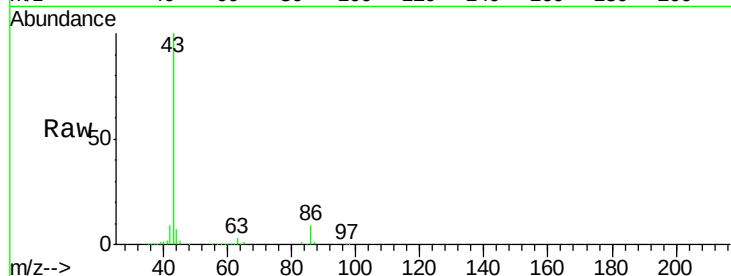
86 8.5 6.5 9.7

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 4.942 ug/l

RT: 6.21 min Scan# 706

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

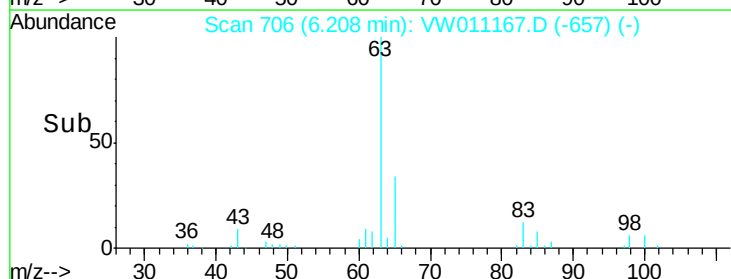
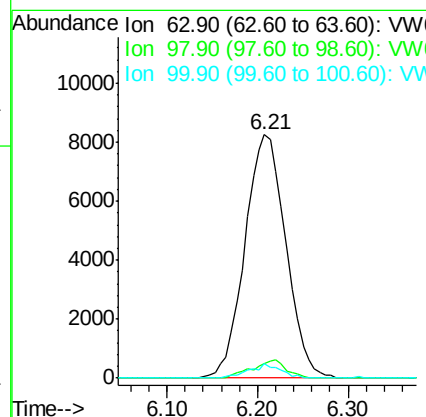
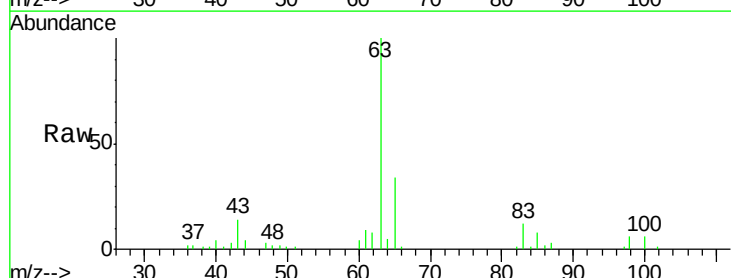
Tgt Ion: 63 Resp: 25718

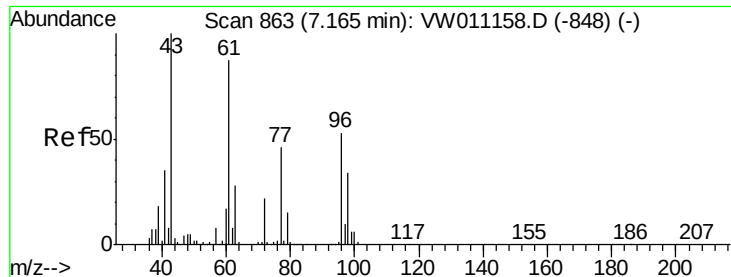
Ion Ratio Lower Upper

63 100

98 6.1 3.3 9.9

100 6.0 2.1 6.2





#25

2-Butanone

Concen: 23.239 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT3-2019

Tot Ion: 43 Resp: 25084

Ion Ratio Lower Upper

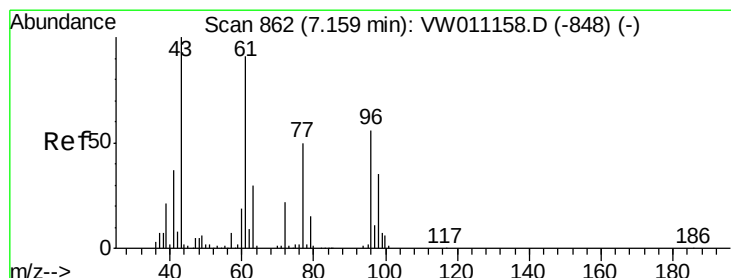
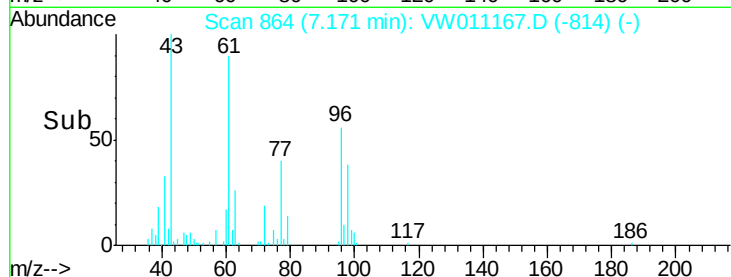
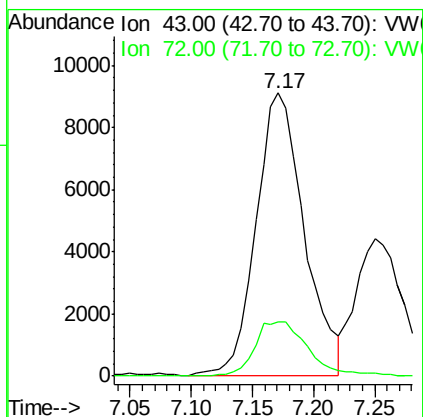
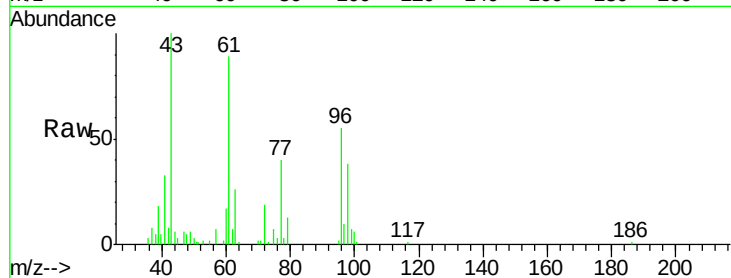
43 100

72 19.0 17.6 26.4

Manual Integrations
APPROVED

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#26

2,2-Dichloropropane

Concen: 4.734 ug/l

RT: 7.16 min Scan# 862

Delta R.T. 0.00 min

Lab File: VW011167.D

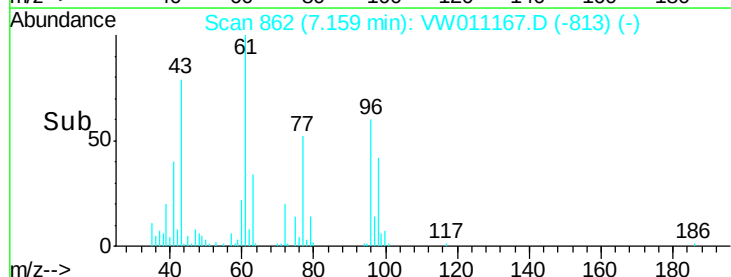
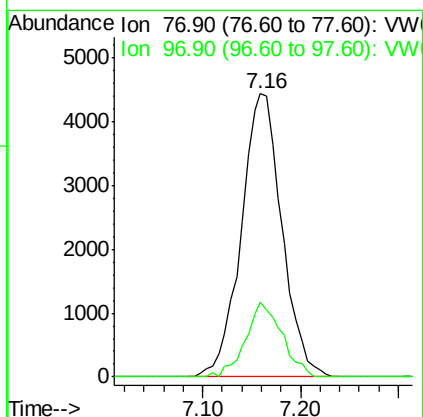
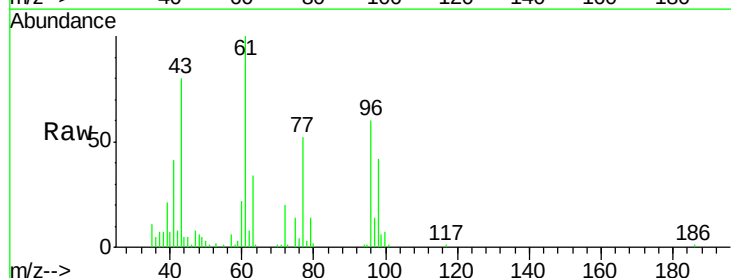
Acq: 08 Jul 2019 18:07

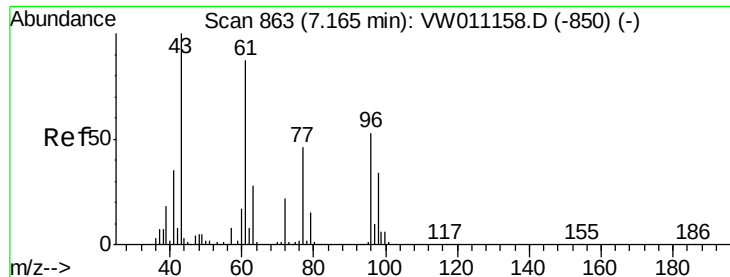
Tgt Ion: 77 Resp: 12804

Ion Ratio Lower Upper

77 100

97 23.6 11.2 33.5





#27

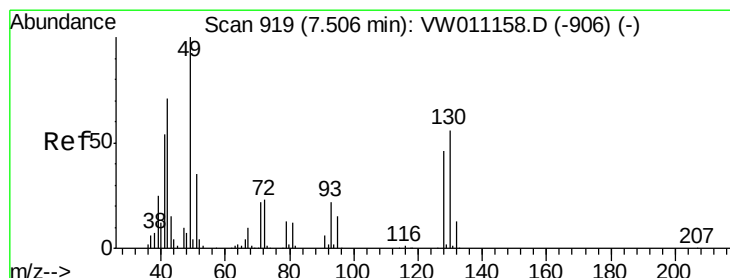
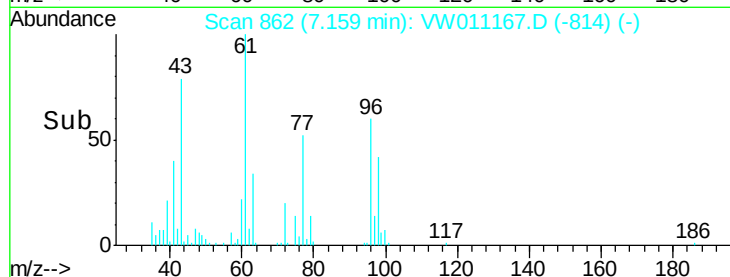
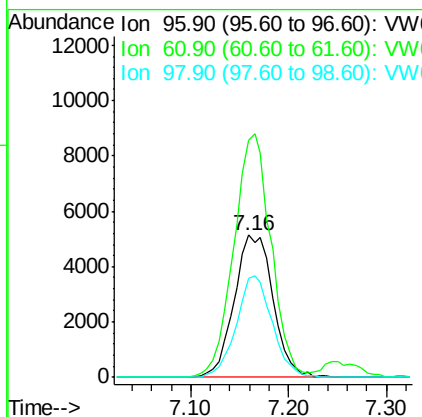
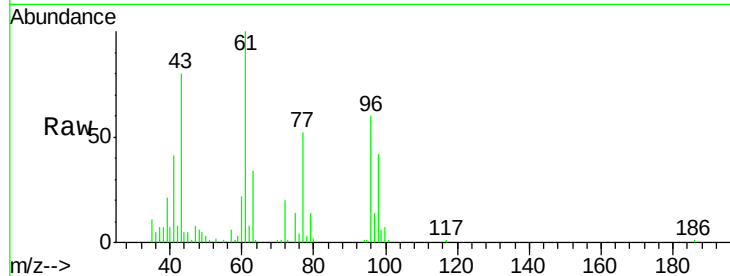
cis-1,2-Dichloroethene
Concen: 4.997 ug/l
RT: 7.16 min Scan# 862
Delta R.T. -0.01 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	163.4	0.0	325.6
98	65.6	0.0	128.2

Manual Integrations
APPROVED

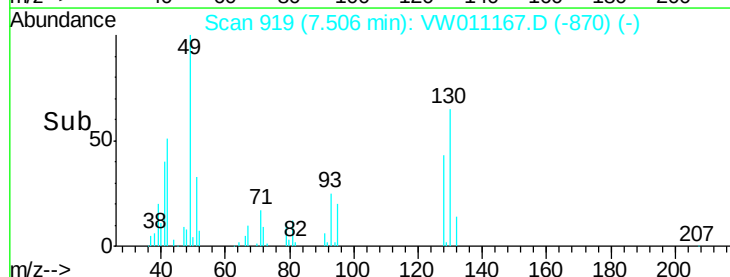
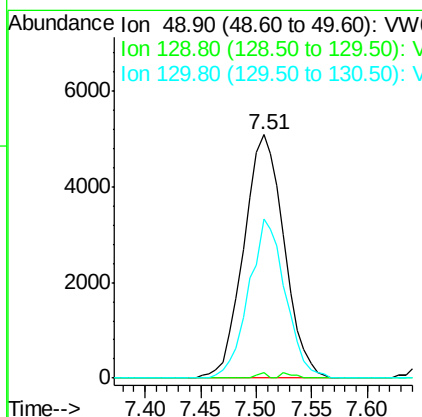
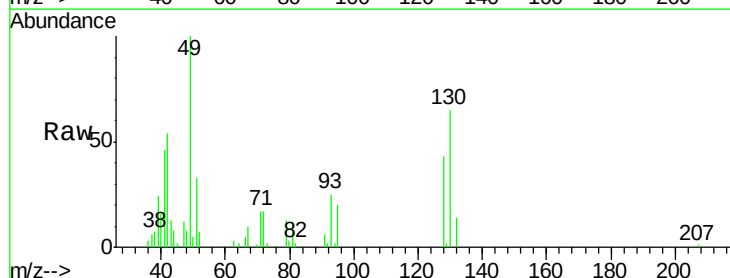
MMDadoda
7/9/2019 4:13:28 PM

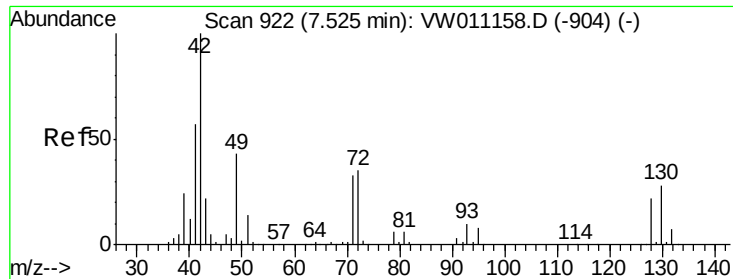


#28

Bromochloromethane
Concen: 5.437 ug/l
RT: 7.51 min Scan# 919
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.5	0.0	1.4
130	59.5	45.8	68.8





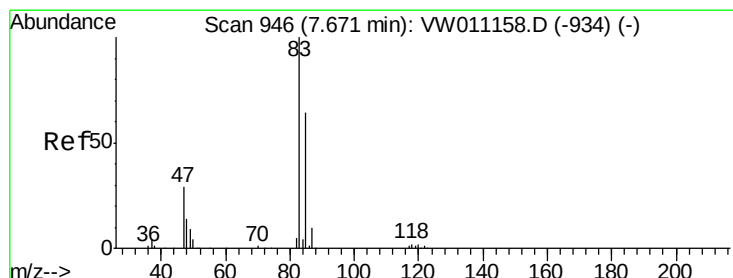
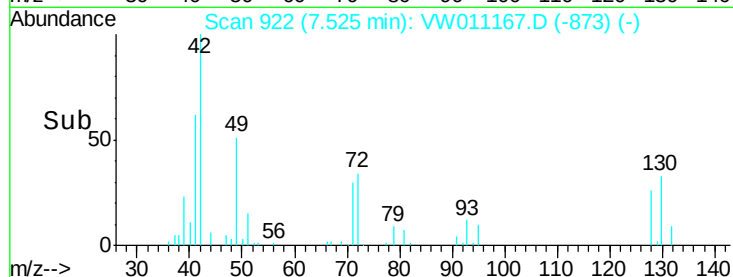
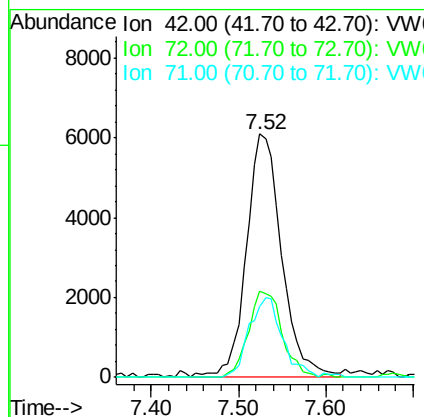
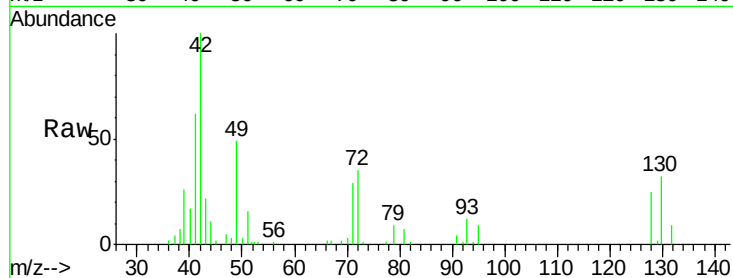
#29
Tetrahydrofuran
Concen: 24.165 ug/l
RT: 7.52 min Scan# 922
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
42	100		
72	33.8	27.4	41.2
71	30.7	25.9	38.9

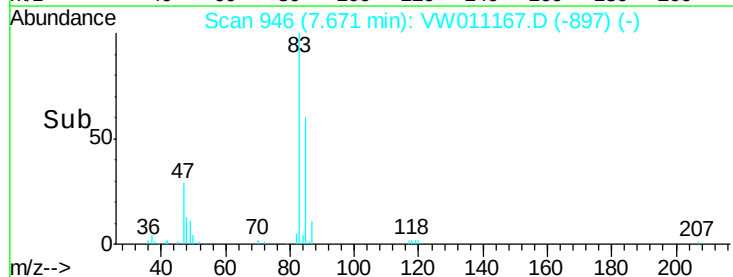
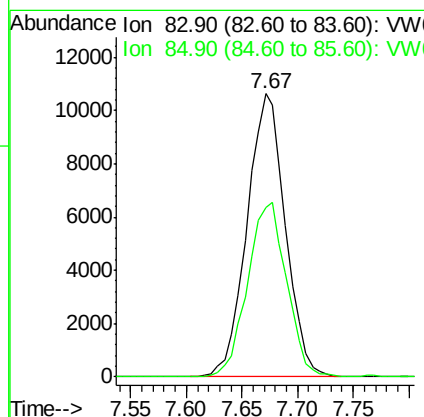
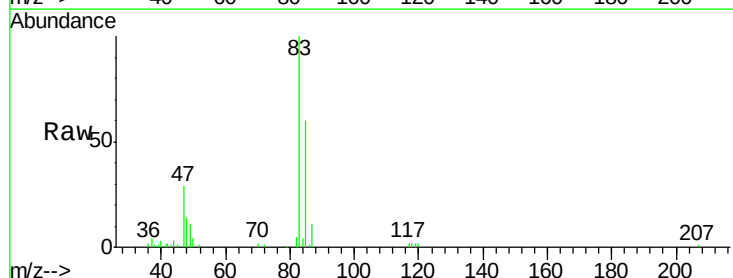
Manual Integrations
APPROVED

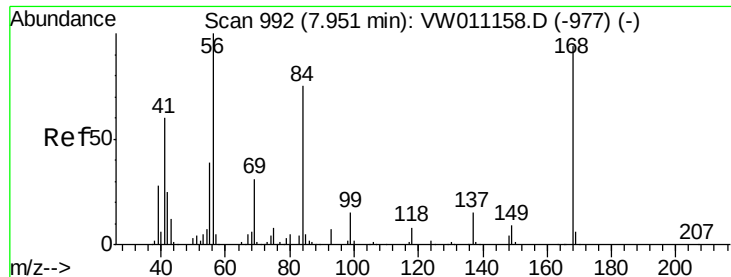
MMDadoda
7/9/2019 4:13:28 PM



#30
Chloroform
Concen: 5.271 ug/l
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.0	51.4	77.2





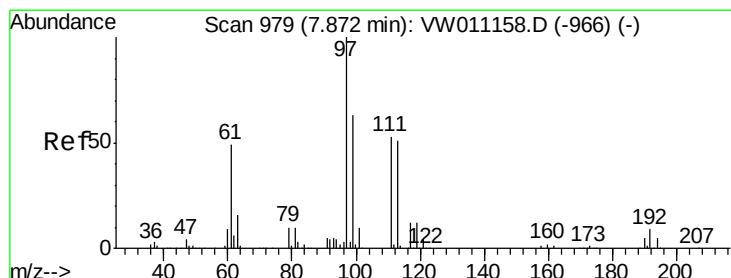
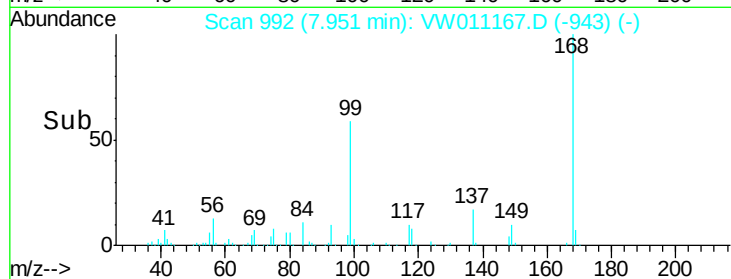
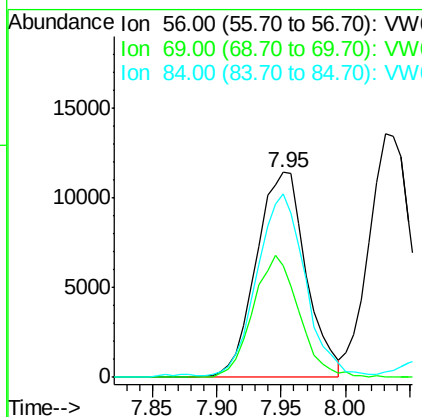
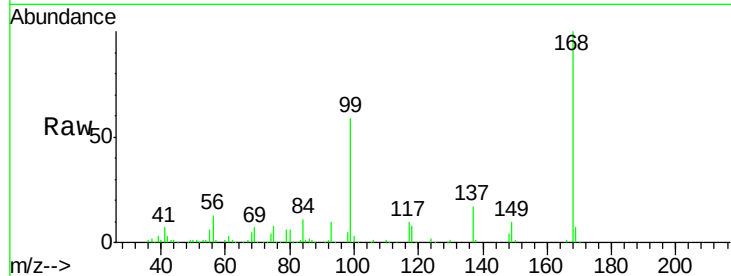
#31
Cyclohexane
Concen: 5.544 ug/l
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

Tot Ion	Ratio	Resp	Lower	Upper
56	100	30691		
69	54.7		24.6	36.8#
84	88.5		60.1	90.1

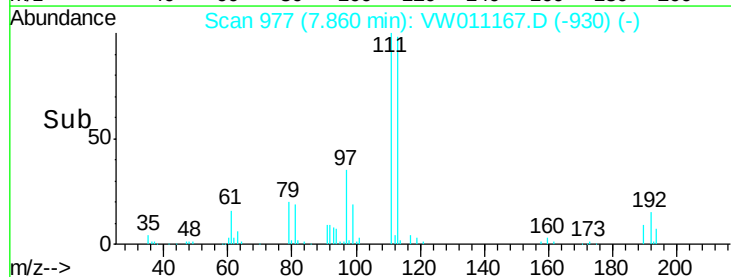
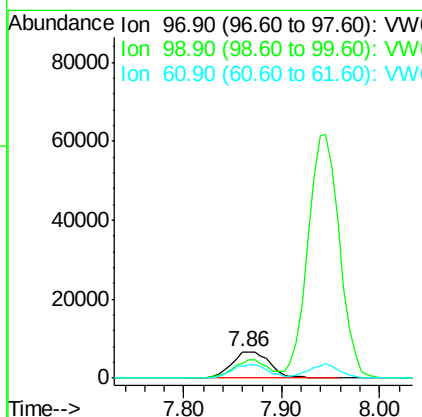
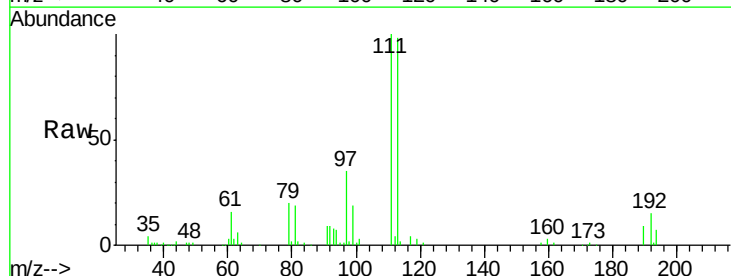
Manual Integrations
APPROVED

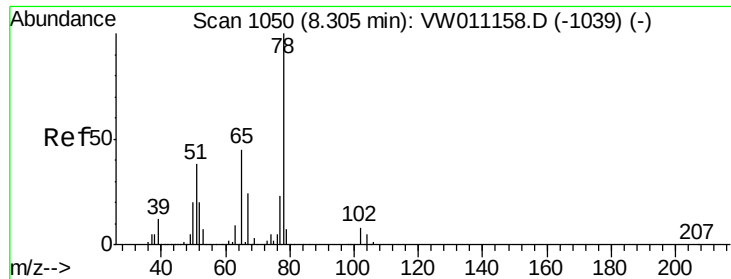
MMDadoda
7/9/2019 4:13:28 PM



#32
1,1,1-Trichloroethane
Concen: 4.931 ug/l
RT: 7.86 min Scan# 977
Delta R.T. -0.01 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	18078		
99	62.4		51.0	76.4
61	48.8		40.4	60.6





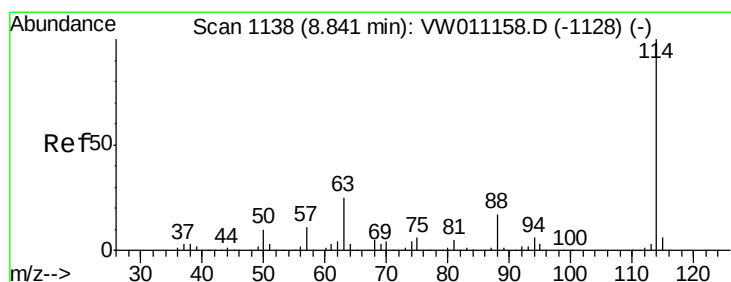
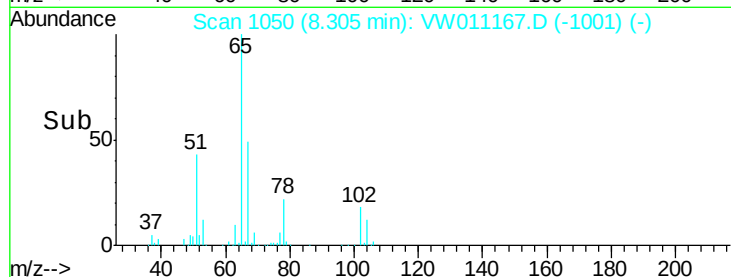
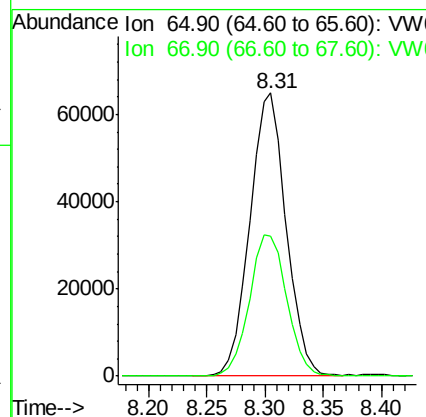
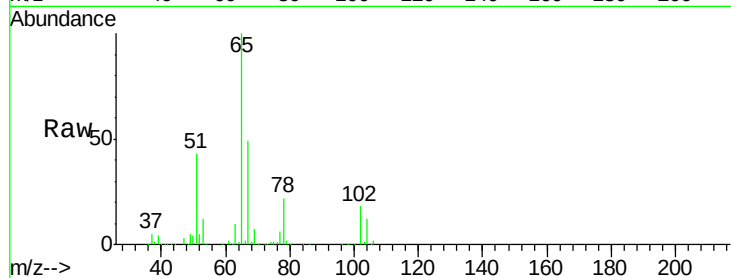
#33
 1,2-Dichloroethane-d4
 Concen: 49.141 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW011167.D
 Acq: 08 Jul 2019 18:07

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT3-2019

Tot Ion	Ratio	Resp	Lower	Upper
65	100	140436		
67	51.7	0.0	104.4	

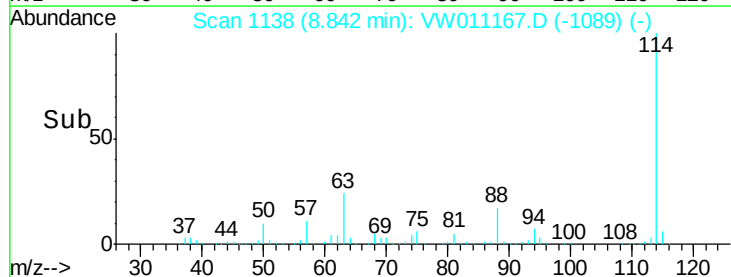
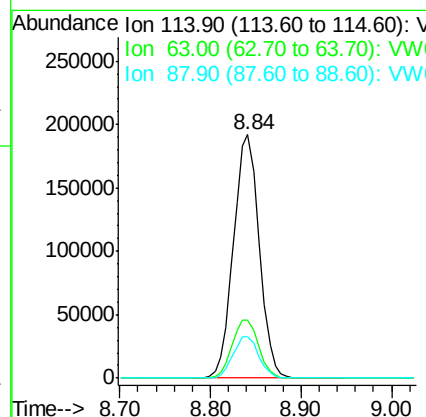
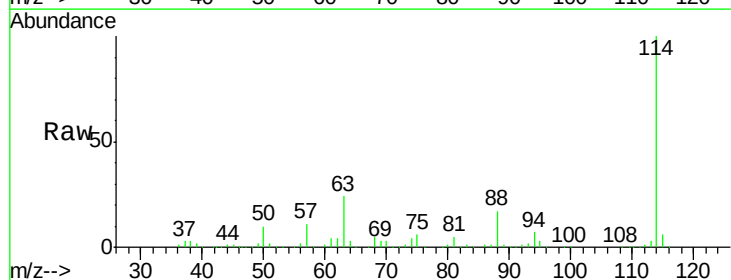
Manual Integrations
 APPROVED

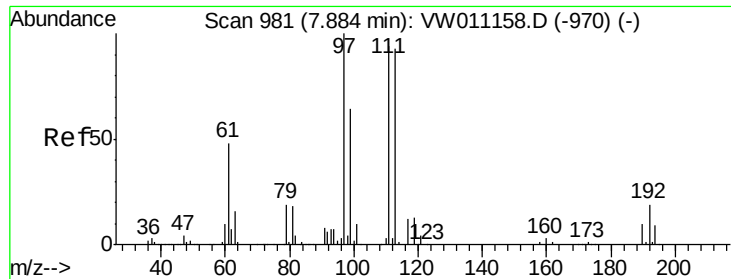
MMDadoda
 7/9/2019 4:13:28 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW011167.D
 Acq: 08 Jul 2019 18:07

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	377070		
63	24.0	0.0	50.8	
88	16.8	0.0	34.2	





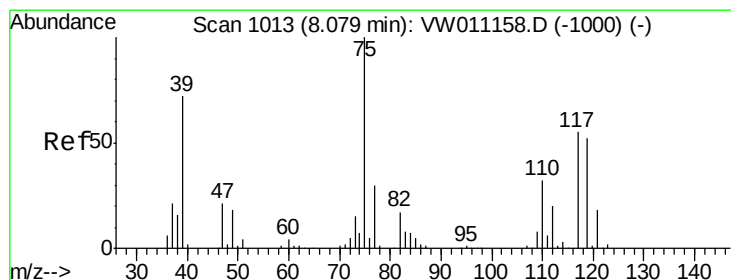
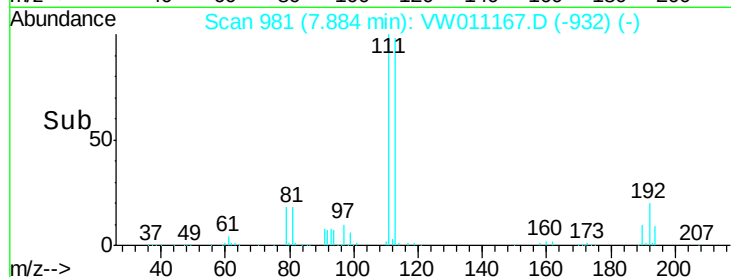
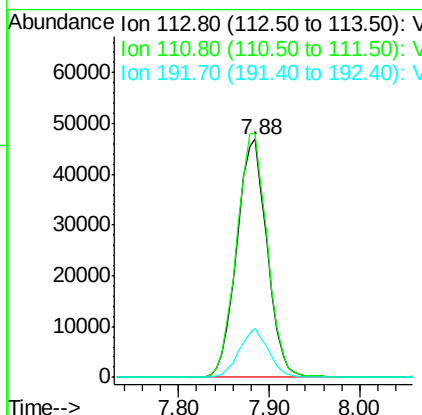
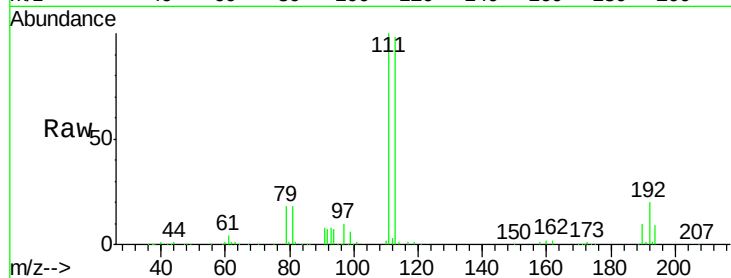
#35
 Dibromofluoromethane
 Concen: 48.431 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW011167.D
 Acq: 08 Jul 2019 18:07

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT3-2019

Tot Ion	Ratio	Resp	Lower	Upper
113	100	108849		
111	103.4	82.4	123.6	
192	19.6	15.8	23.8	

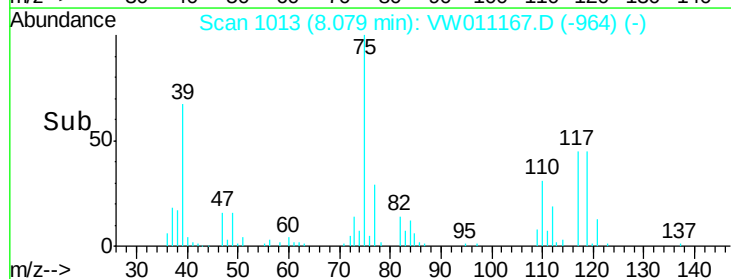
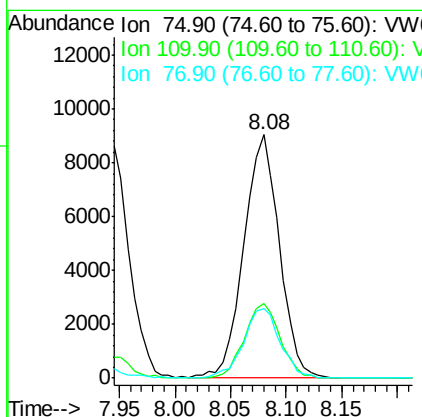
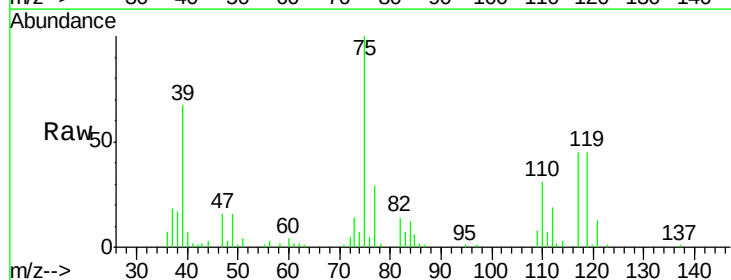
Manual Integrations
 APPROVED

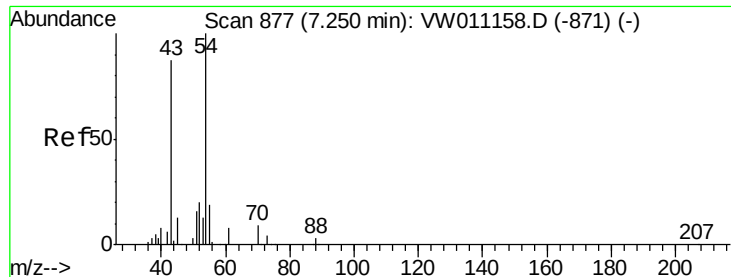
MMDadoda
 7/9/2019 4:13:28 PM



#36
 1,1-Dichloropropene
 Concen: 5.011 ug/l
 RT: 8.08 min Scan# 1013
 Delta R.T. 0.00 min
 Lab File: VW011167.D
 Acq: 08 Jul 2019 18:07

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	20120		
110	30.8	15.9	47.6	
77	29.5	24.6	36.8	





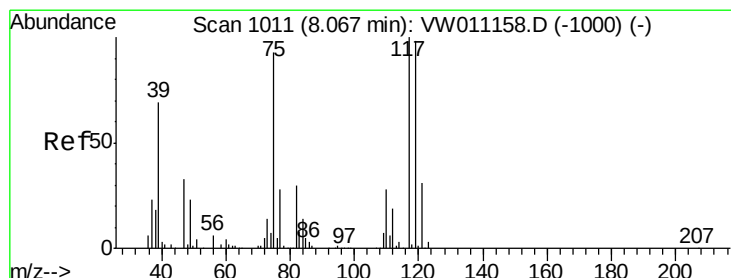
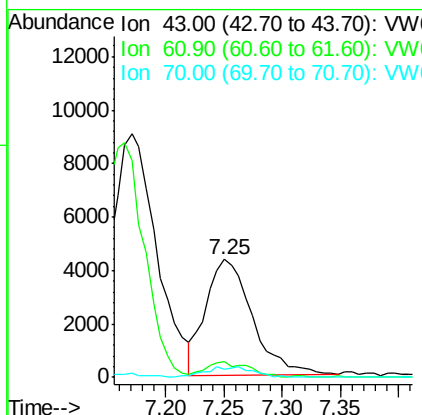
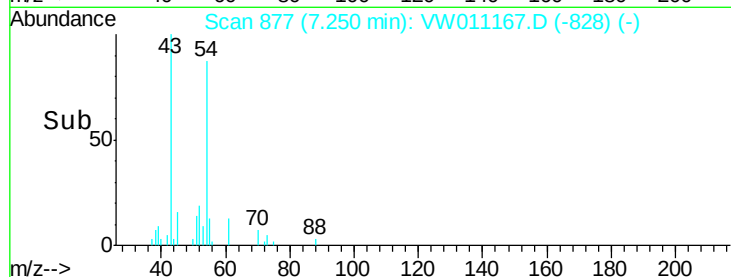
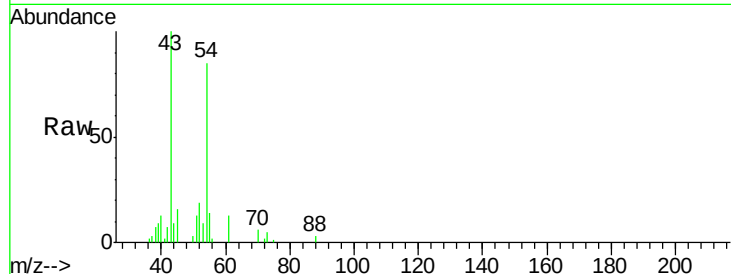
#37
Ethyl Acetate
Concen: 4.965 ug/l
RT: 7.25 min Scan# 877
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.3	9.5	14.3
70	8.8	7.1	10.7

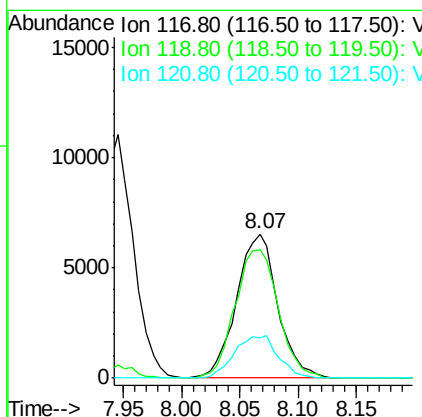
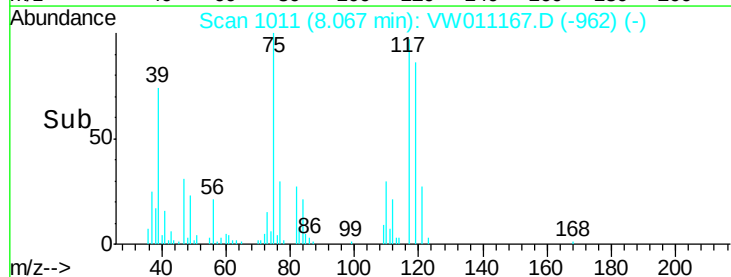
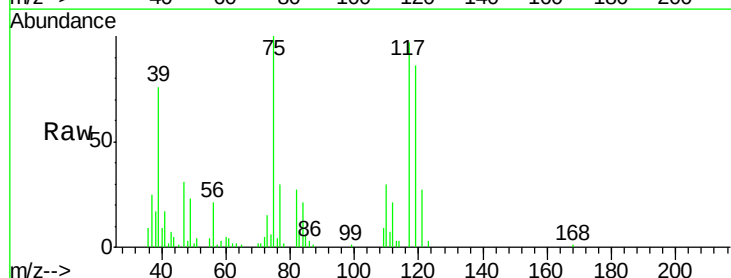
Manual Integrations
APPROVED

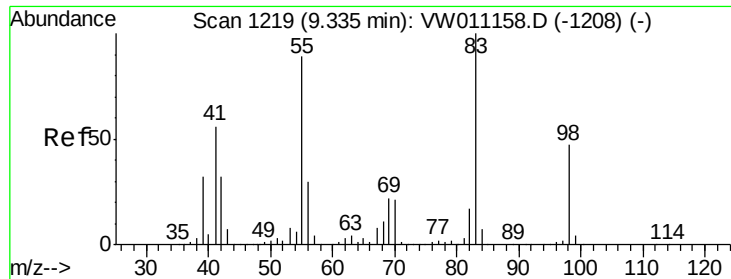
MMDadoda
7/9/2019 4:13:28 PM



#38
Carbon Tetrachloride
Concen: 4.742 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion	Ratio	Lower	Upper
117	100		
119	89.0	78.1	117.1
121	28.2	25.1	37.7





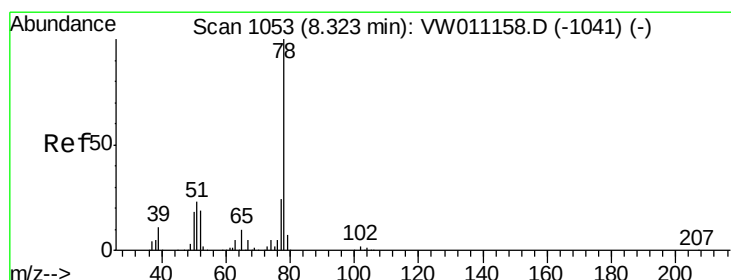
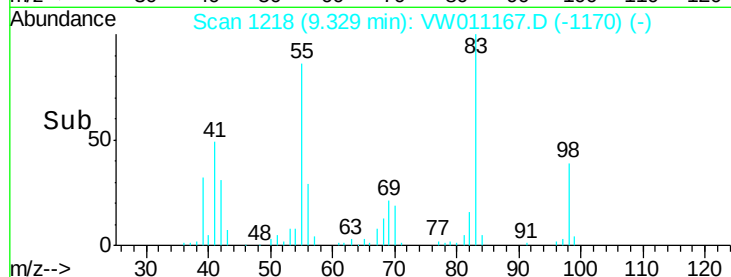
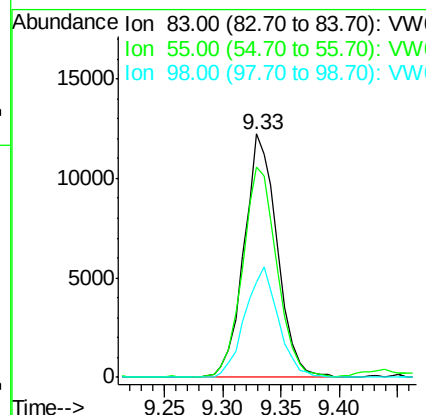
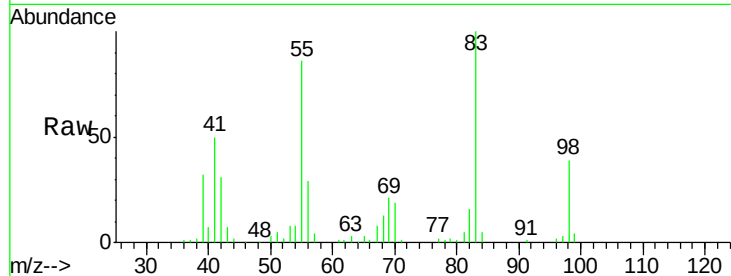
#39
Methylvlcyclohexane
Concen: 4.980 ug/l
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
83	100		
55	86.4	71.2	106.8
98	39.1	37.5	56.3

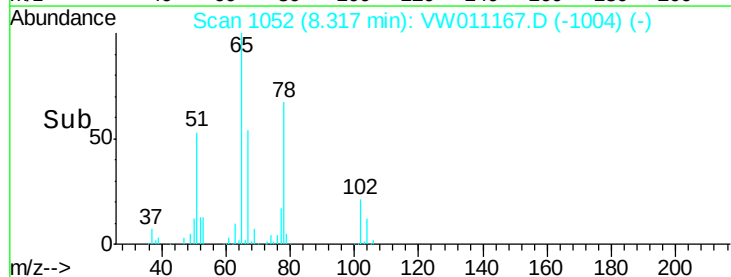
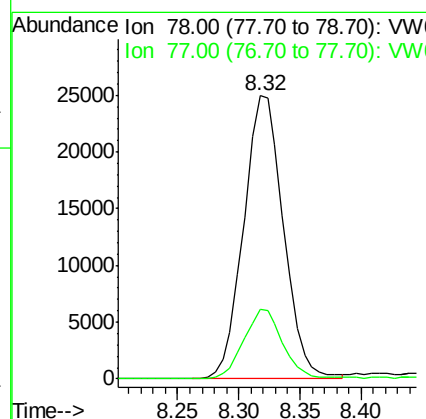
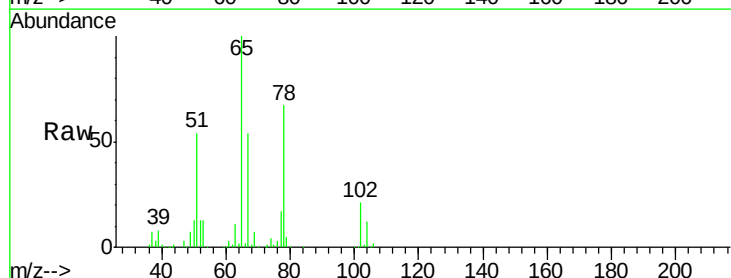
Manual Integrations
APPROVED

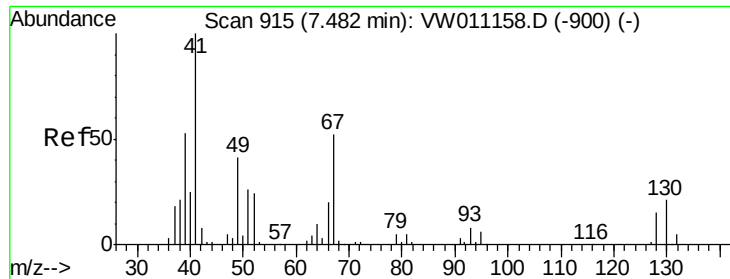
MMDadoda
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#40
Benzene
Concen: 5.096 ug/l
RT: 8.32 min Scan# 1052
Delta R.T. -0.01 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.8	19.0	28.6





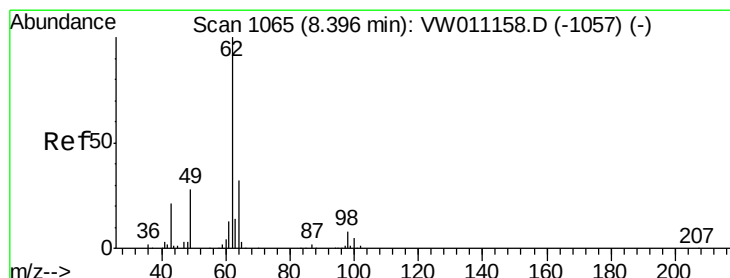
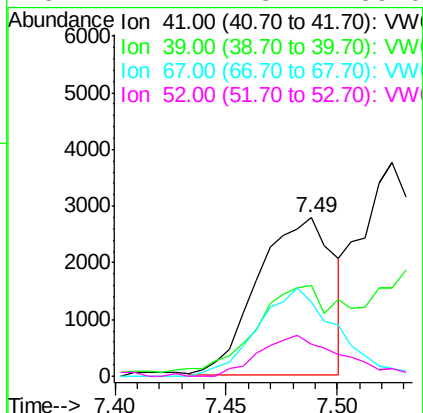
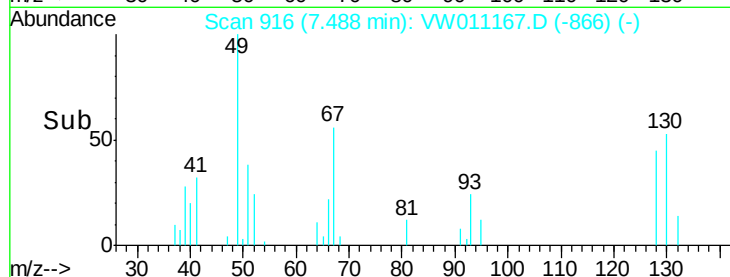
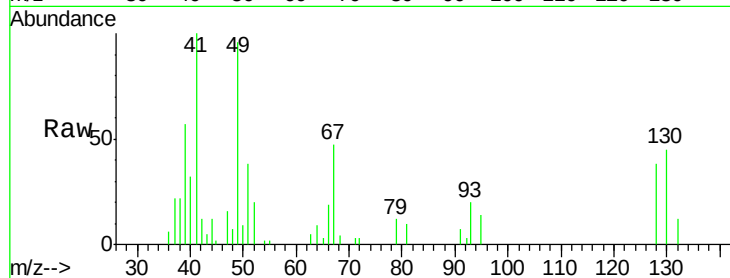
#41
Methacrylonitrile
Concen: 4.748 ug/l
RT: 7.49 min Scan# 916
Delta R.T. 0.01 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
41	100		
39	62.8	48.0	72.0
67	59.2	49.7	74.5
52	27.7	23.4	35.0

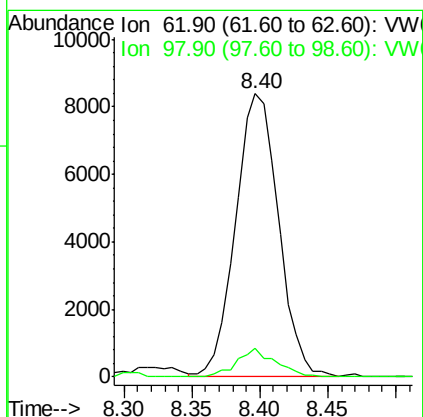
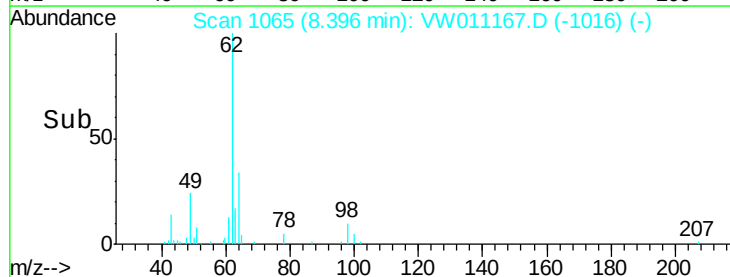
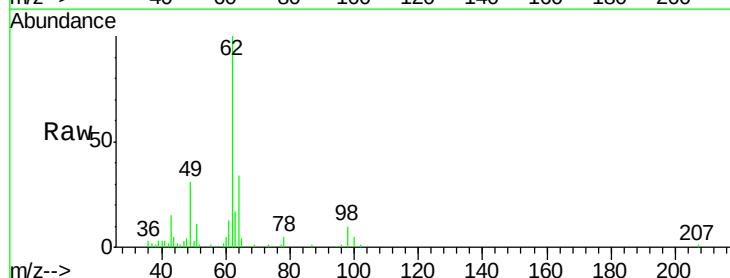
Manual Integrations
APPROVED

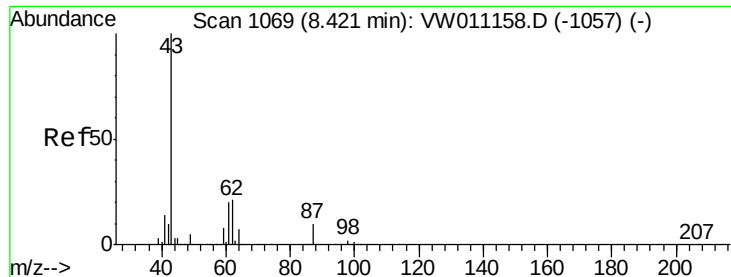
MMDadoda
7/9/2019 4:13:28 PM



#42
1,2-Dichloroethane
Concen: 5.120 ug/l
RT: 8.40 min Scan# 1065
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	16.8





#43

Isopropyl Acetate

Concen: 4.695 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

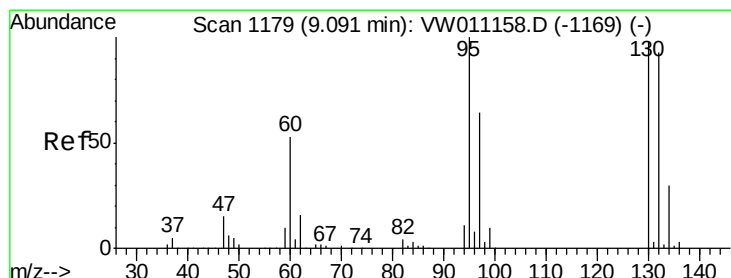
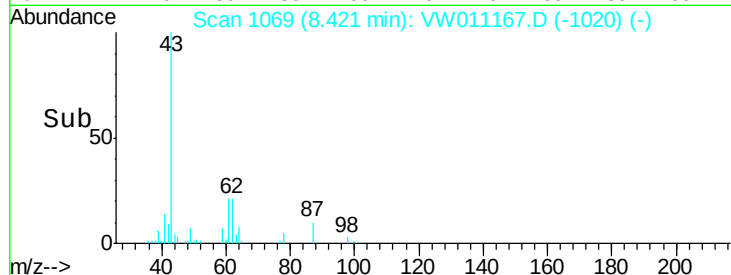
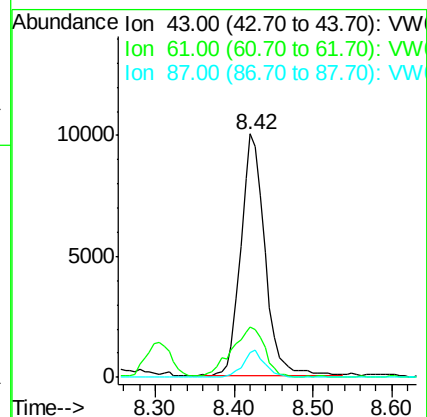
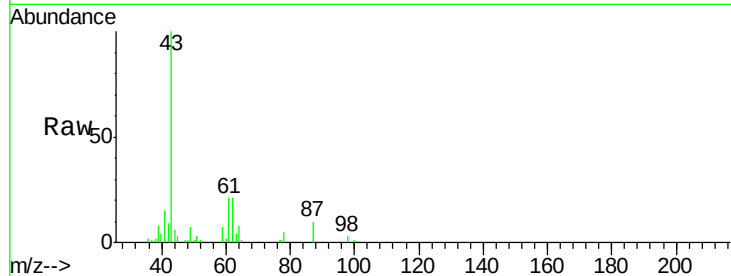
ClientSampleId :

LOQ-SOIL-02-QT3-2019

Tot Ion:	43	Resp:	21387
Ion	Ratio	Lower	Upper
43	100		
61	28.5	20.7	31.1
87	9.9	8.1	12.1

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#44

Trichloroethene

Concen: 4.997 ug/l

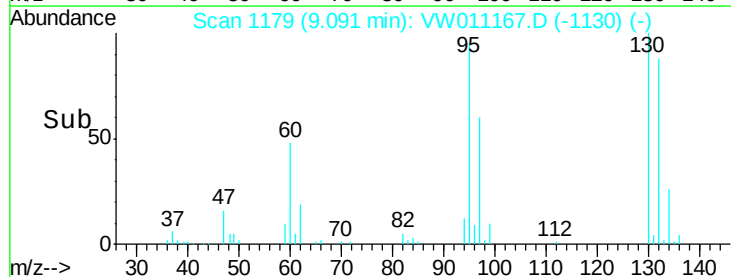
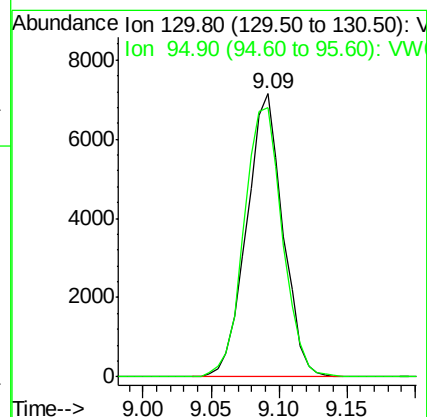
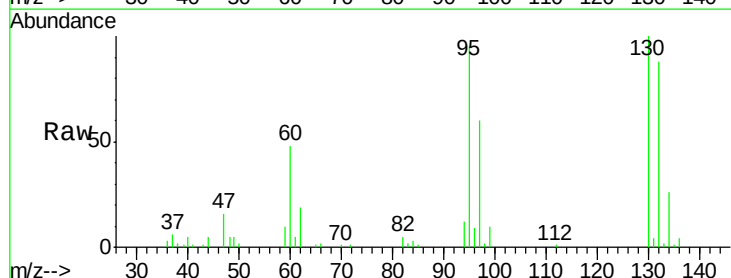
RT: 9.09 min Scan# 1179

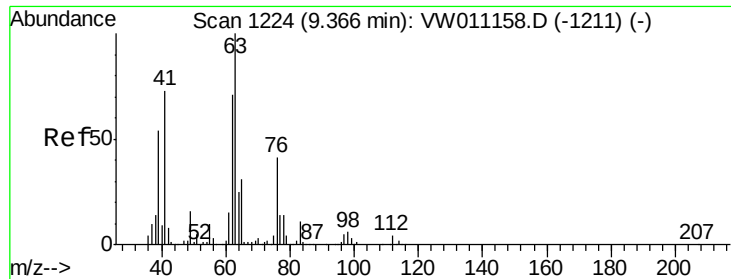
Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Tgt Ion:	130	Resp:	13345
Ion	Ratio	Lower	Upper
130	100		
95	95.3	0.0	203.6





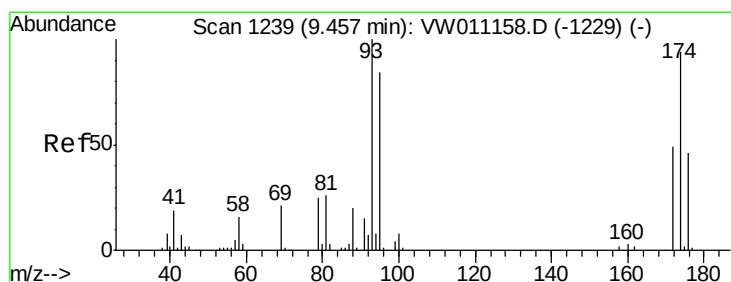
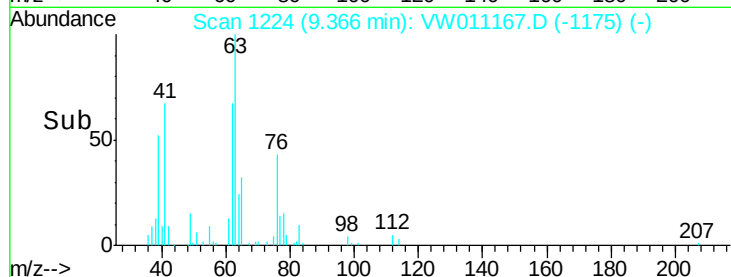
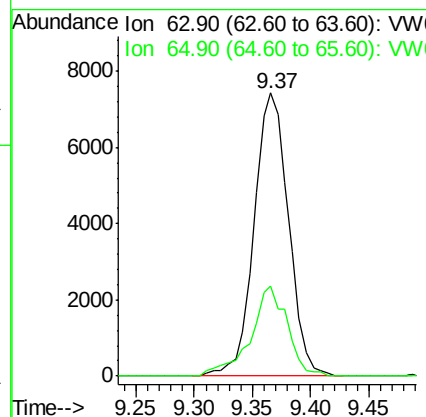
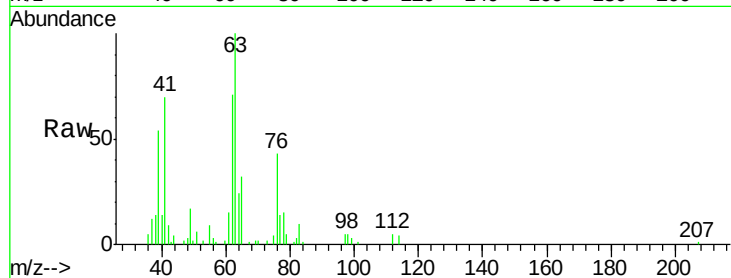
#45
 1,2-Dichloropropane
 Concen: 5.098 ug/l
 RT: 9.37 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: VW011167.D
 Acq: 08 Jul 2019 18:07

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT3-2019

Tot Ion: 63 Resp: 15319
 Ion Ratio Lower Upper
 63 100
 65 32.0 24.4 36.6

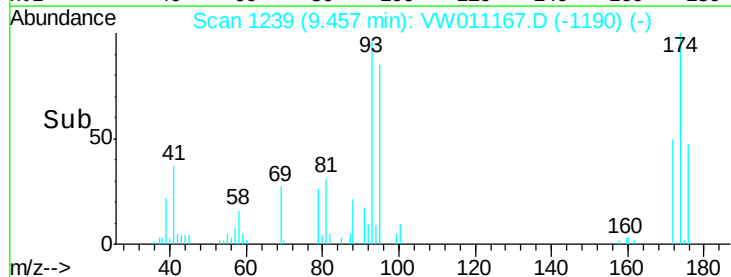
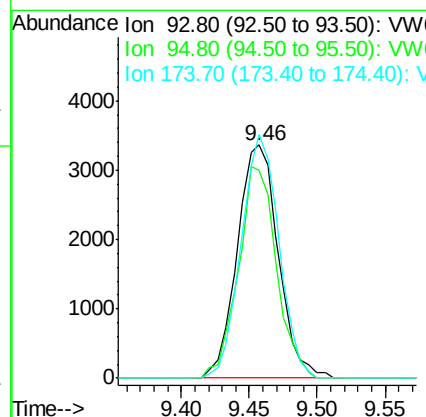
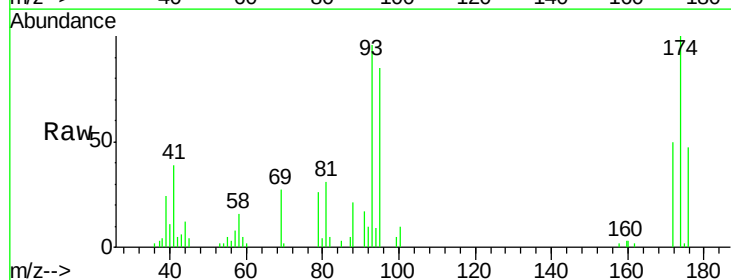
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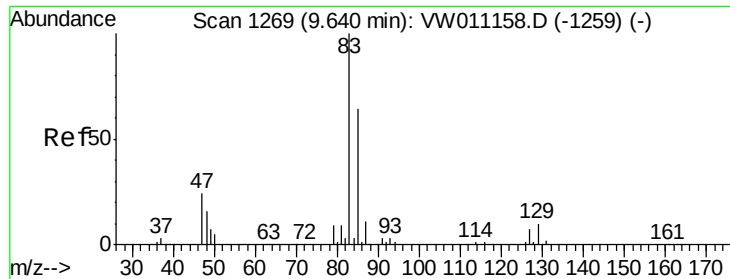
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 7/9/2019 4:13:28 PM



#46
 Dibromomethane
 Concen: 5.006 ug/l
 RT: 9.46 min Scan# 1239
 Delta R.T. 0.00 min
 Lab File: VW011167.D
 Acq: 08 Jul 2019 18:07

Tgt Ion: 93 Resp: 7066
 Ion Ratio Lower Upper
 93 100
 95 84.4 67.2 100.8
 174 96.4 76.3 114.5





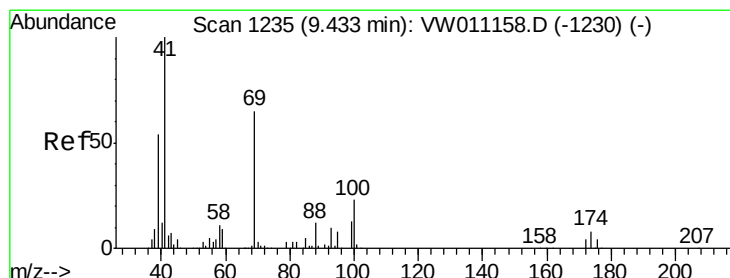
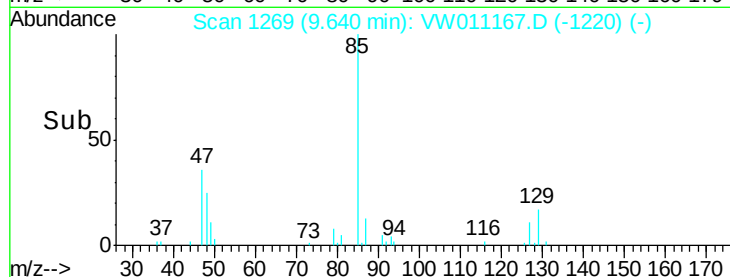
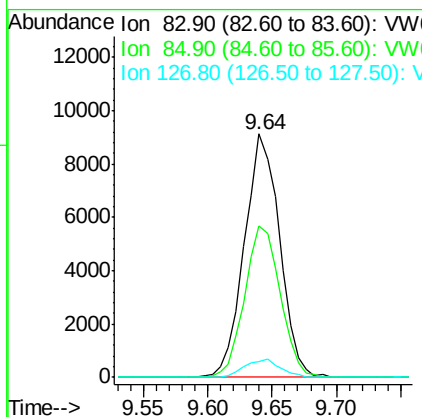
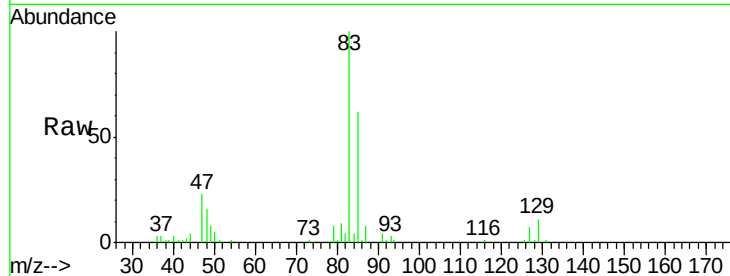
#47
Bromodichloromethane
Concen: 4.762 ug/l
RT: 9.64 min Scan# 1269
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

Tot Ion	83	Resp	17201
Ion Ratio	100	Lower	Upper
83	100		
85	62.0	51.0	76.4
127	6.6	6.0	9.0

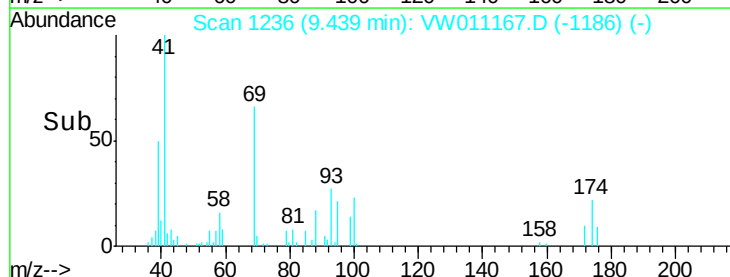
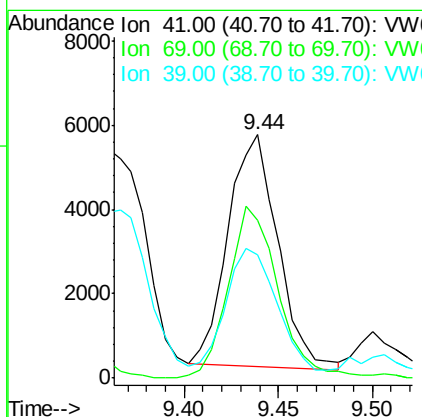
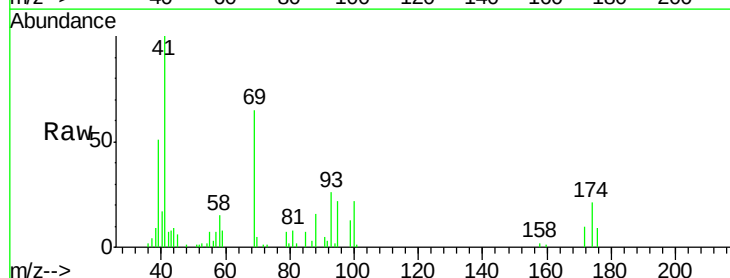
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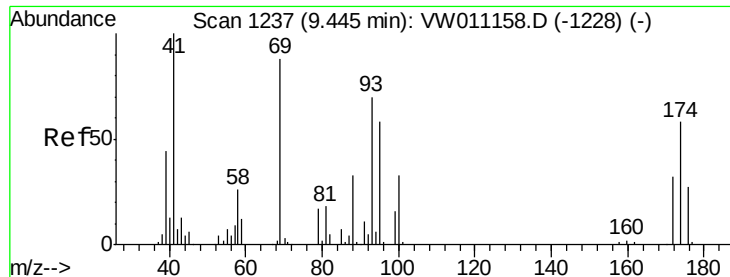
MMDadoda
7/9/2019 4:13:28 PM



#48
Methyl methacrylate
Concen: 4.580 ug/l
RT: 9.44 min Scan# 1236
Delta R.T. 0.01 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion	41	Resp	10037
Ion Ratio	100	Lower	Upper
41	100		
69	75.4	56.0	84.0
39	53.5	43.5	65.3





#49

1,4-Dioxane

Concen: 96.891 ug/l

RT: 9.45 min Scan# 1238

Delta R.T. 0.01 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT3-2019

Tot Ion: 88 Resp: 2283

Ion Ratio Lower Upper

88 100

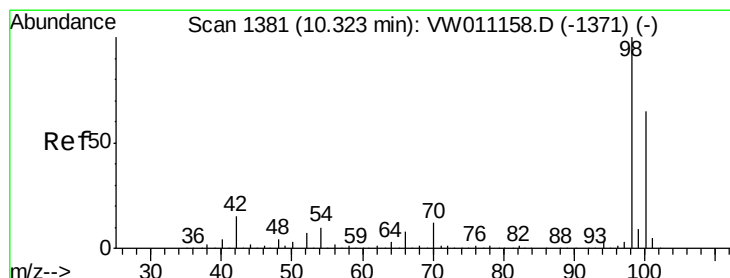
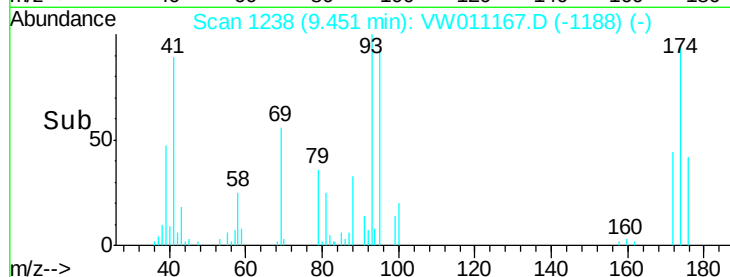
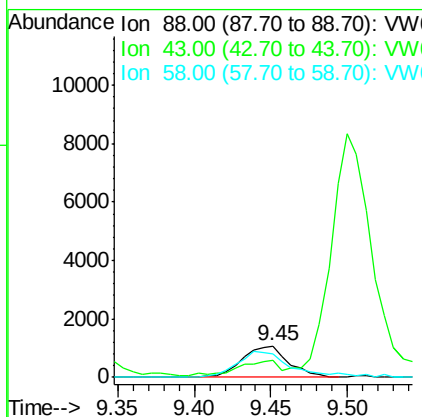
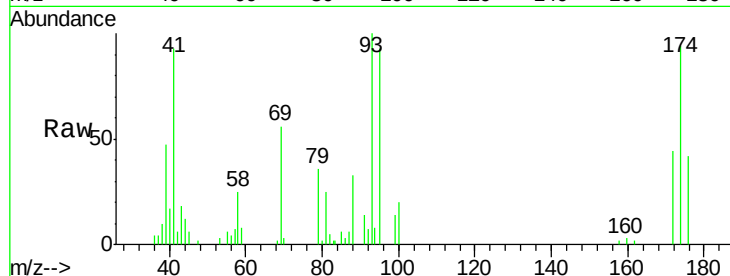
43 38.8 33.4 50.0

58 97.0 64.5 96.7#

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#50

Toluene-d8

Concen: 48.979 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW011167.D

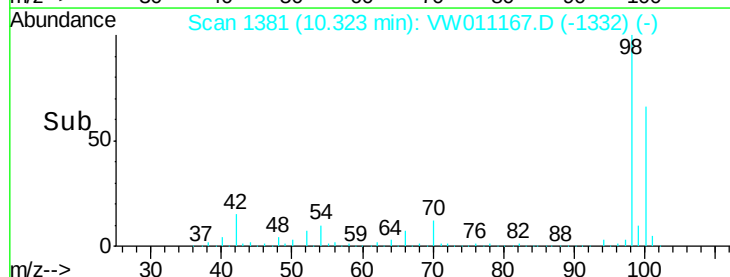
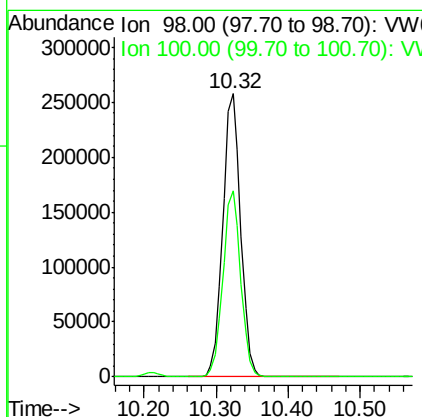
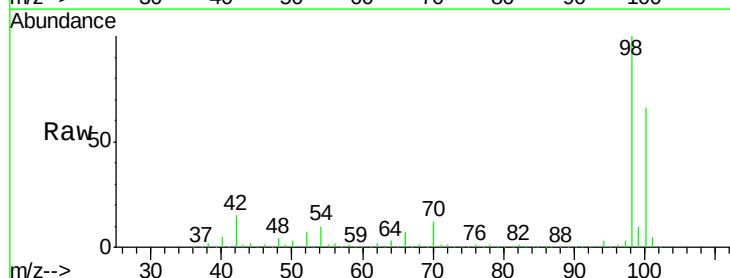
Acq: 08 Jul 2019 18:07

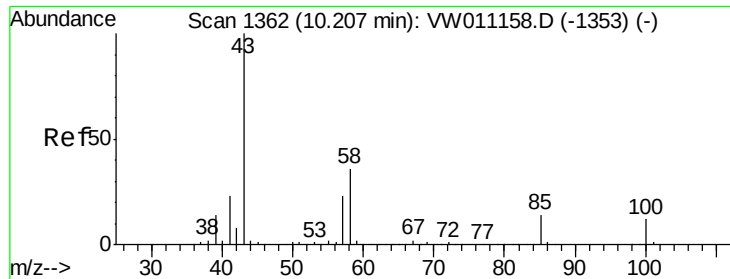
Tgt Ion: 98 Resp: 444965

Ion Ratio Lower Upper

98 100

100 65.4 52.4 78.6





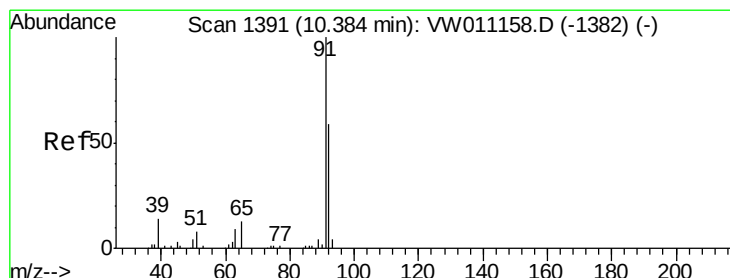
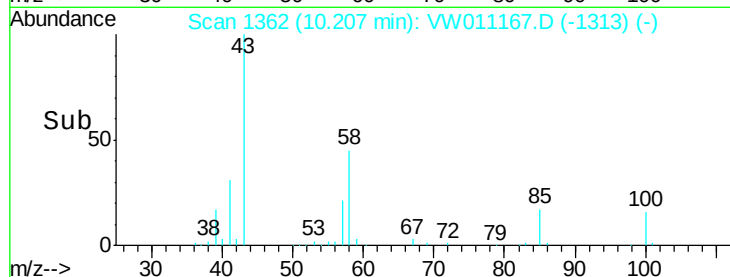
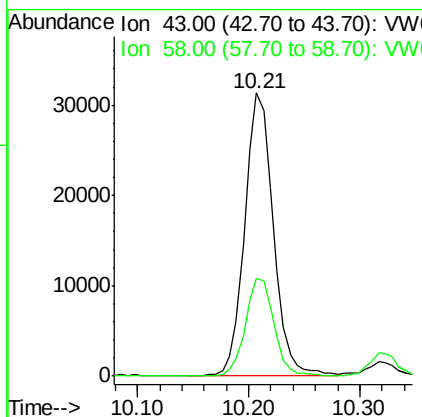
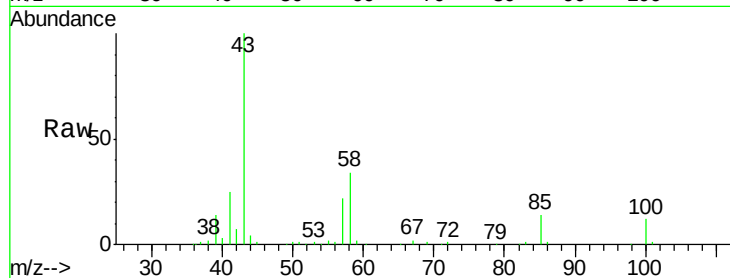
#51
4-Methyl-2-Pentanone
Concen: 23.447 ug/l
RT: 10.21 min Scan# 1362
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

Tot Ion	43	58	Resp	Lower	Upper
43	100				
58	34.9		28.2	42.2	

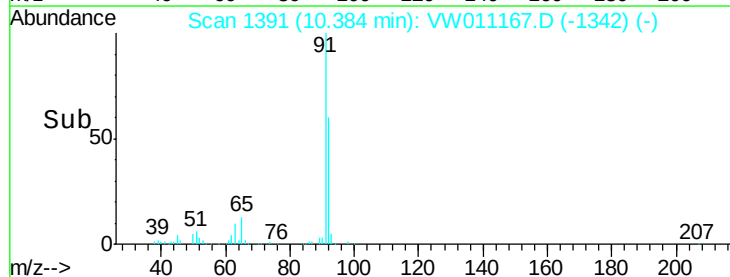
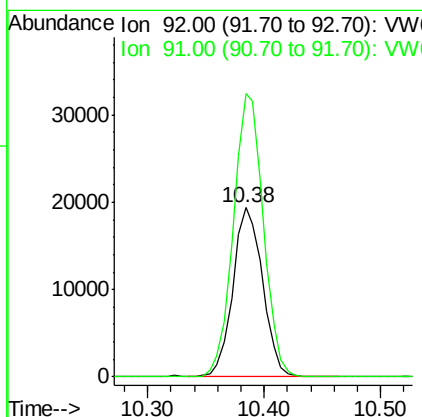
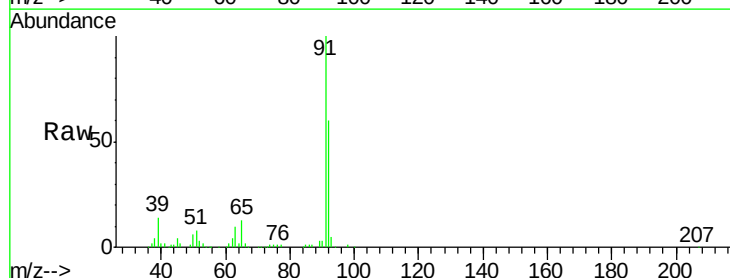
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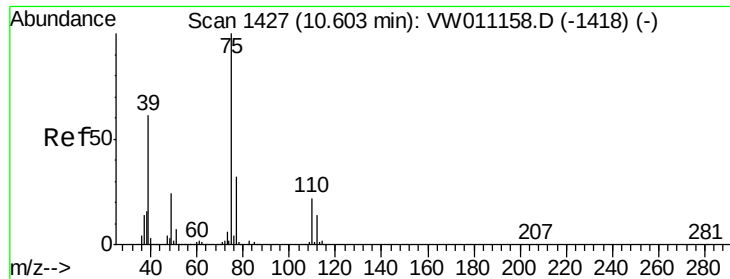
MMDadoda
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#52
Toluene
Concen: 5.134 ug/l
RT: 10.38 min Scan# 1391
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion	92	91	Resp	Lower	Upper
92	100				
91	168.2		136.6	205.0	





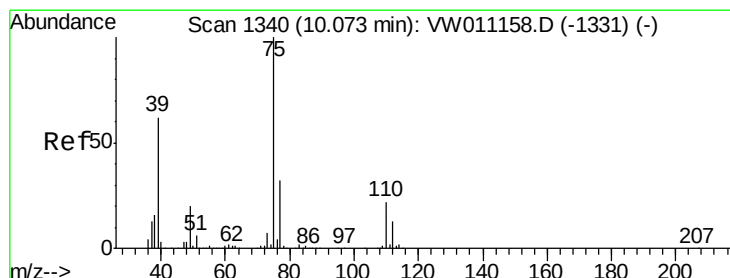
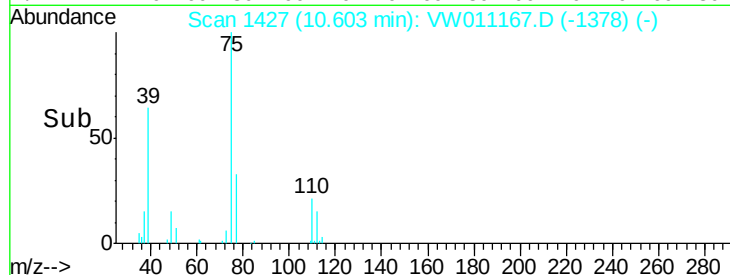
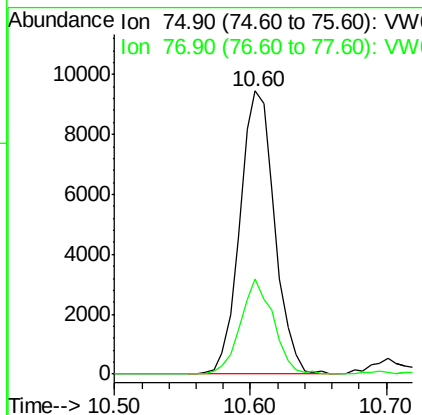
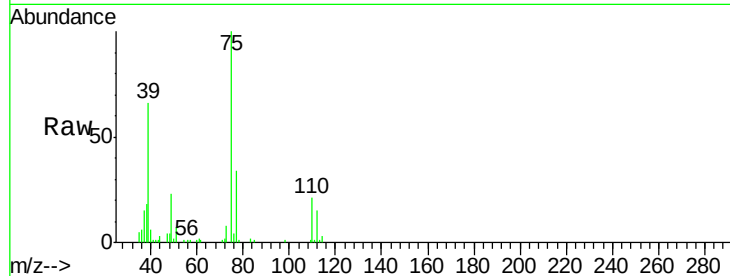
#53
 t-1,3-Dichloropropene
 Concen: 4.383 ug/l
 RT: 10.60 min Scan# 1427
 Delta R.T. 0.00 min
 Lab File: VW011167.D
 Acq: 08 Jul 2019 18:07

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT3-2019

Tot Ion	75	Resp	16850
Ion Ratio	Lower	Upper	
75	100		
77	33.7	25.4	38.0

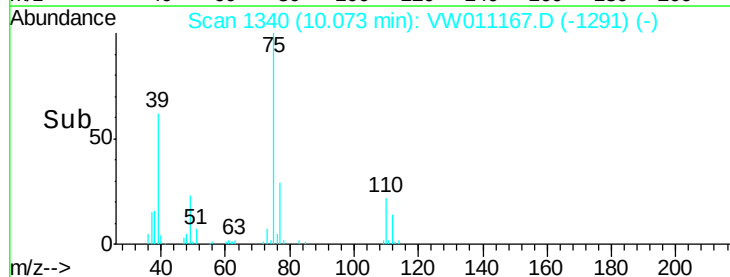
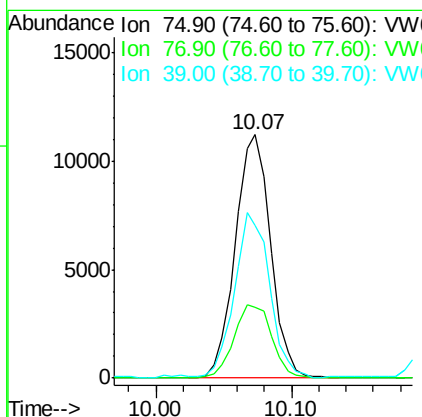
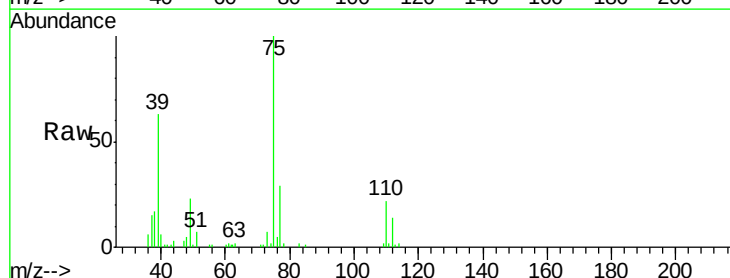
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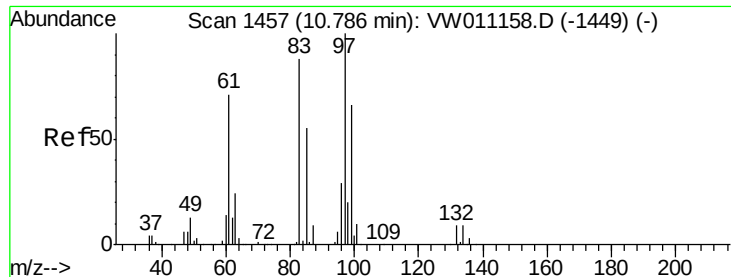
MMDadoda
 7/9/2019 4:13:28 PM



#54
 cis-1,3-Dichloropropene
 Concen: 4.491 ug/l
 RT: 10.07 min Scan# 1340
 Delta R.T. 0.00 min
 Lab File: VW011167.D
 Acq: 08 Jul 2019 18:07

Tgt Ion	75	Resp	20324
Ion Ratio	Lower	Upper	
75	100		
77	29.2	25.7	38.5
39	62.0	49.8	74.8





#55

1,1,2-Trichloroethane

Concen: 4.913 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT3-2019

Tot Ion: 97 Resp: 9838

Ion Ratio Lower Upper

97 100

83 100.9 70.2 105.4

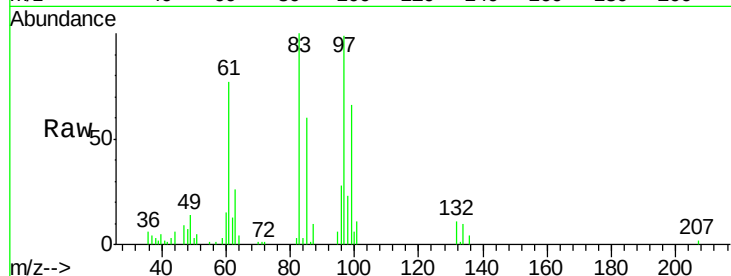
85 60.2 44.2 66.2

99 66.3 52.6 79.0

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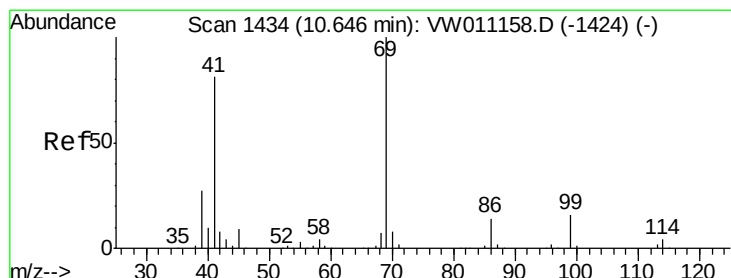
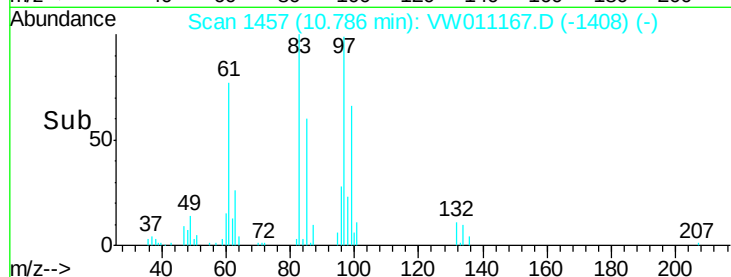
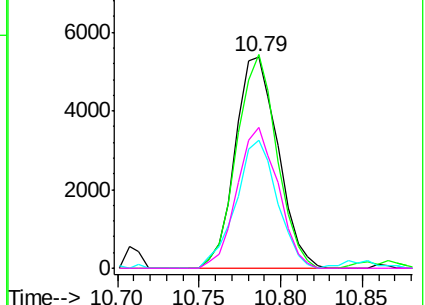


Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW



#56

Ethyl methacrylate

Concen: 4.662 ug/l

RT: 10.65 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

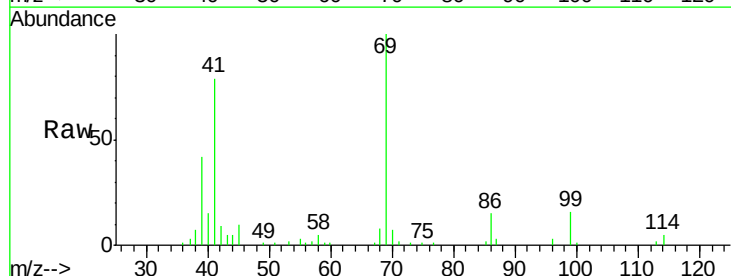
Tgt Ion: 69 Resp: 14213

Ion Ratio Lower Upper

69 100

41 79.4 66.5 99.7

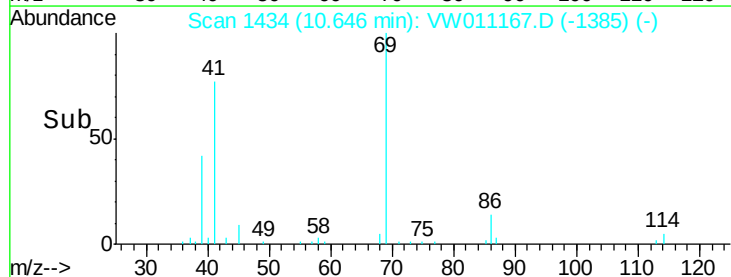
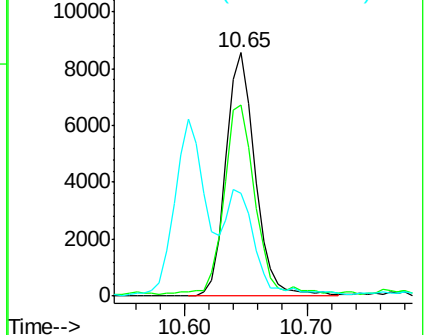
39 41.9 32.5 48.7

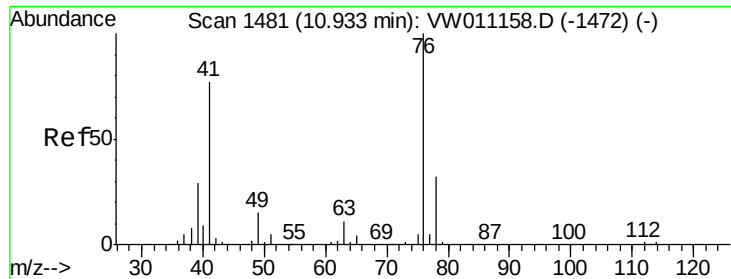


Abundance Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW





#57

1,3-Dichloropropane

Concen: 4.945 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT3-2019

Tot Ion: 76 Resp: 18725

Ion Ratio Lower Upper

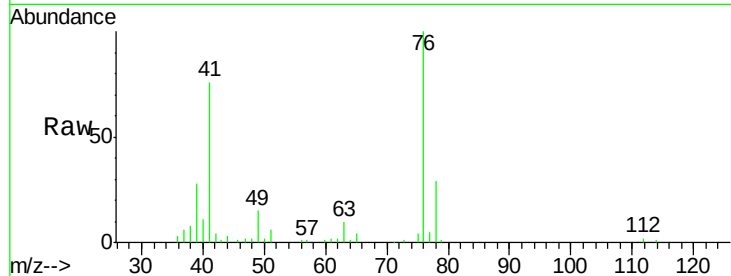
76 100

78 32.7 26.2 39.2

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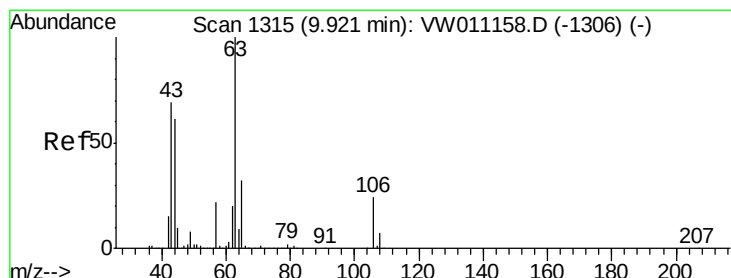
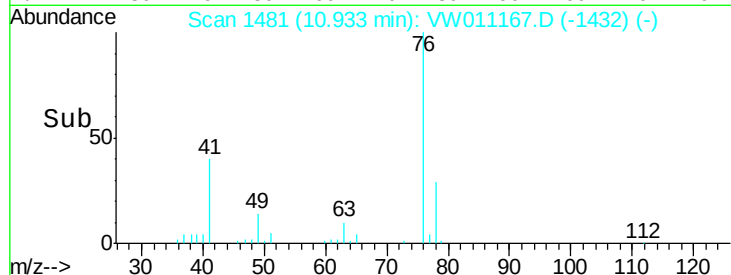
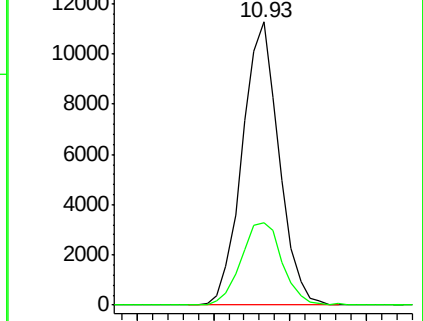
MMDadoda

7/9/2019 4:13:28 PM



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#58

2-Chloroethyl Vinyl ether

Concen: 23.949 ug/l

RT: 9.92 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VW011167.D

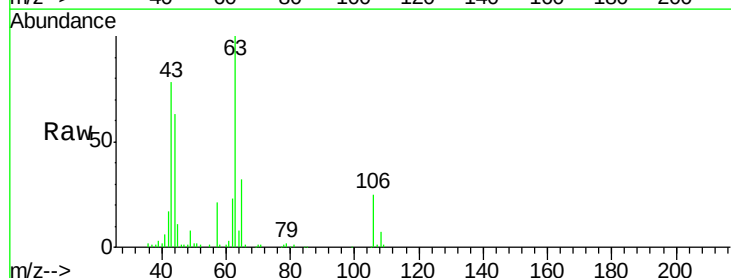
Acq: 08 Jul 2019 18:07

Tgt Ion: 63 Resp: 33852

Ion Ratio Lower Upper

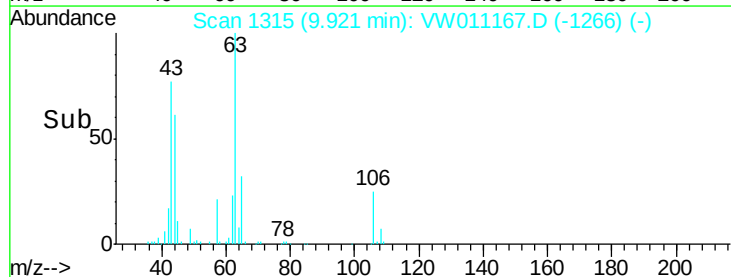
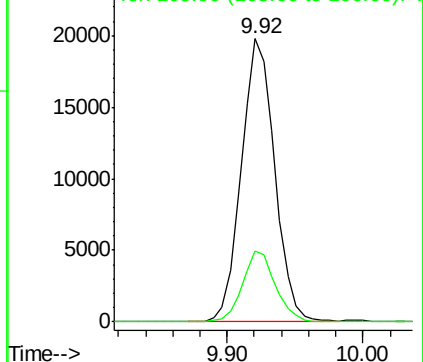
63 100

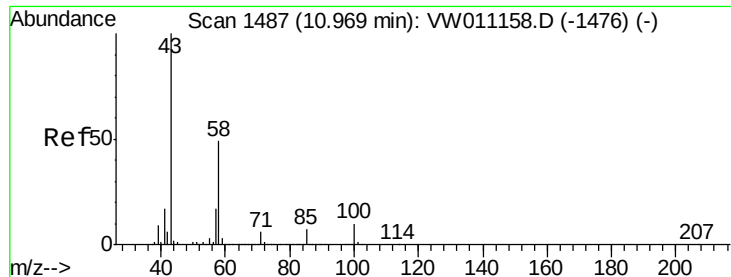
106 24.7 19.4 29.0



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 105.90 (105.60 to 106.60): V





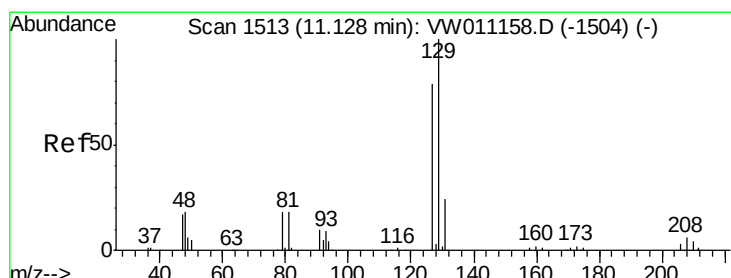
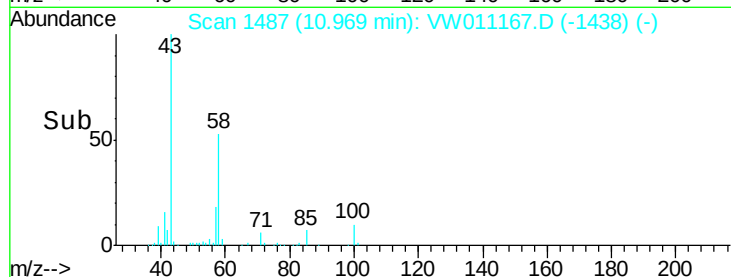
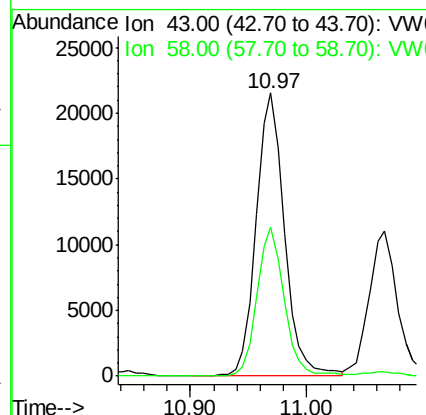
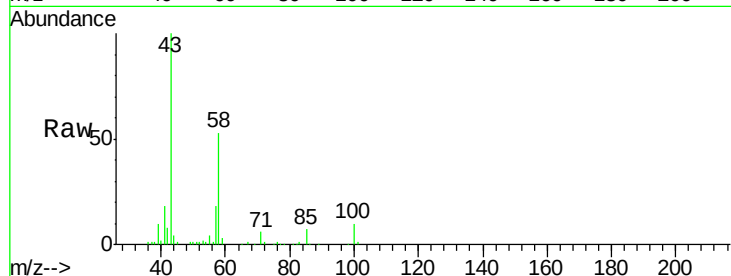
#59
2-Hexanone
Concen: 22.164 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

Tot Ion: 43 Resp: 36573
Ion Ratio Lower Upper
43 100
58 50.7 24.4 73.4

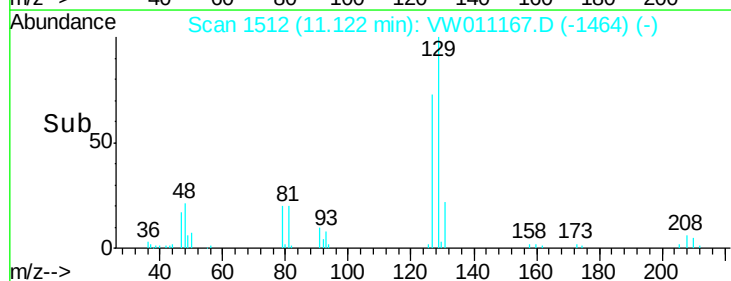
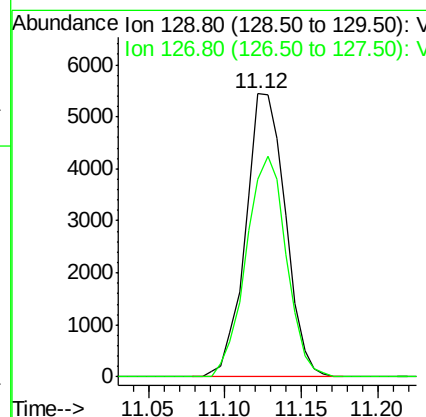
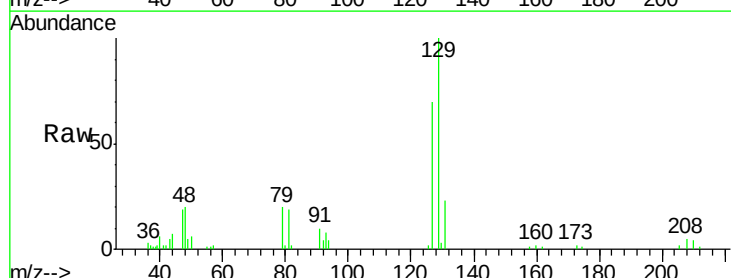
Manual Integrations
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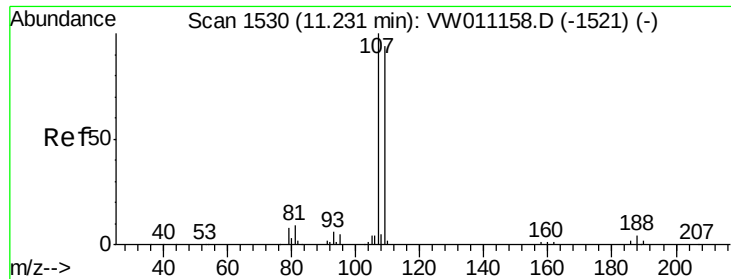
MMDadoda
7/9/2019 4:13:28 PM



#60
Dibromochloromethane
Concen: 4.489 ug/l
RT: 11.12 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion: 129 Resp: 9858
Ion Ratio Lower Upper
129 100
127 78.8 39.1 117.3





#61

1,2-Dibromoethane

Concen: 4.862 ug/l

RT: 11.24 min Scan# 1531

Delta R.T. 0.01 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT3-2019

Tot Ion: 107 Resp: 9222

Ion Ratio Lower Upper

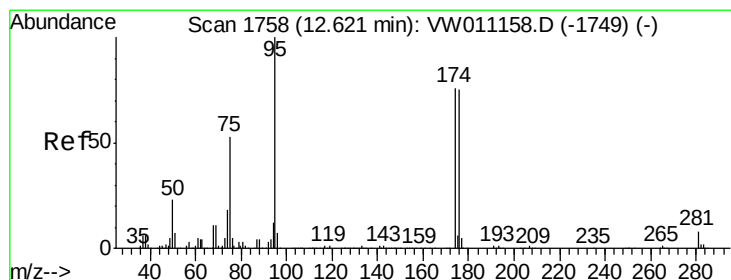
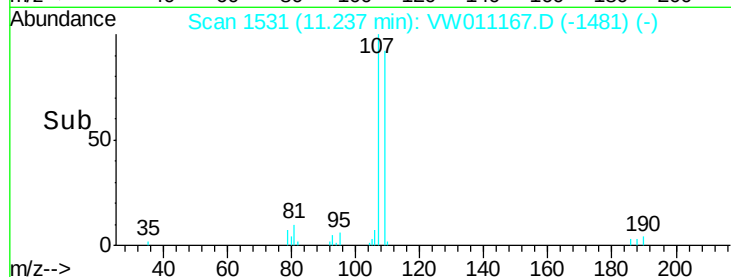
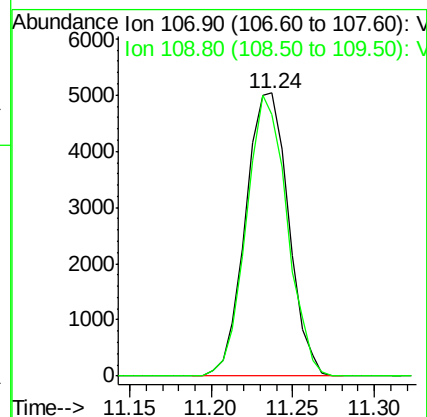
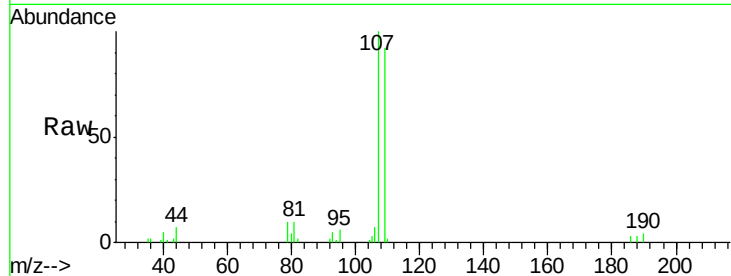
107 100

109 94.4 75.2 112.8

Manual Integrations
APPROVED

MMDadoda

7/9/2019 4:13:28 PM



#62

4-Bromofluorobenzene

Concen: 48.647 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.01 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

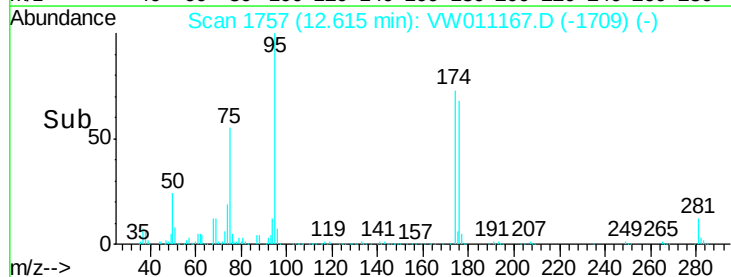
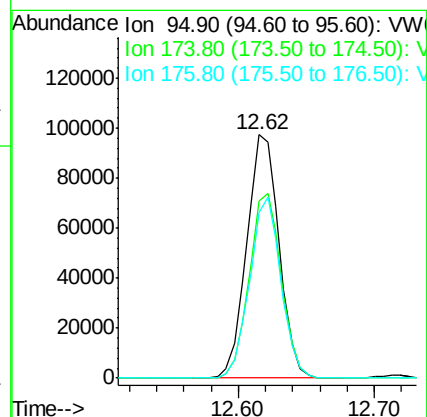
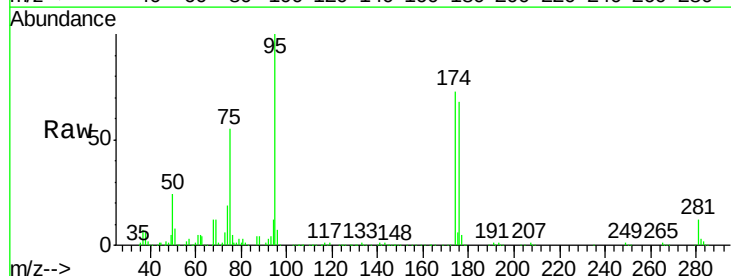
Tgt Ion: 95 Resp: 161989

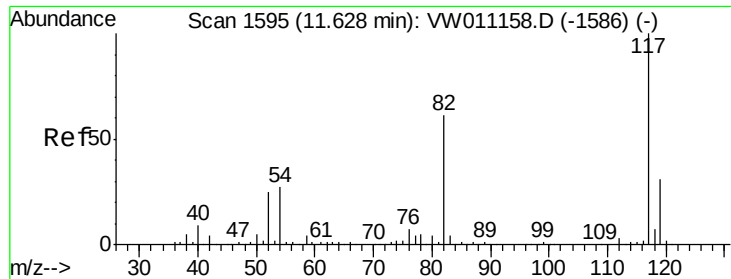
Ion Ratio Lower Upper

95 100

174 75.4 0.0 147.6

176 71.8 0.0 144.6





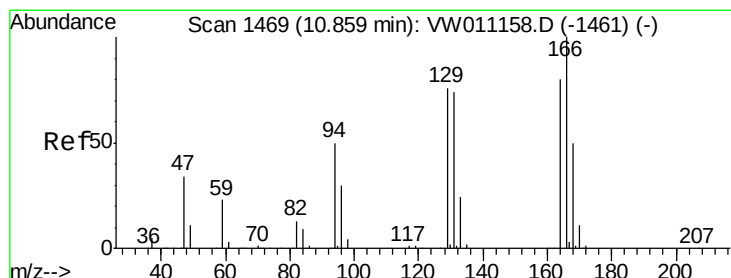
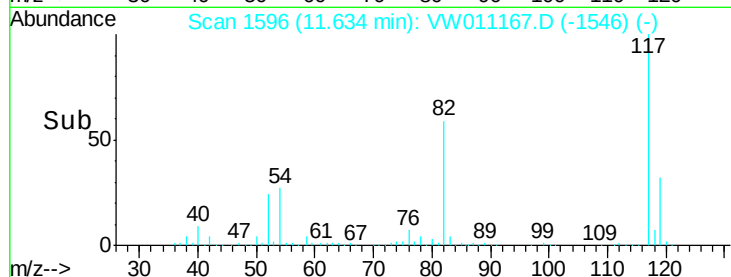
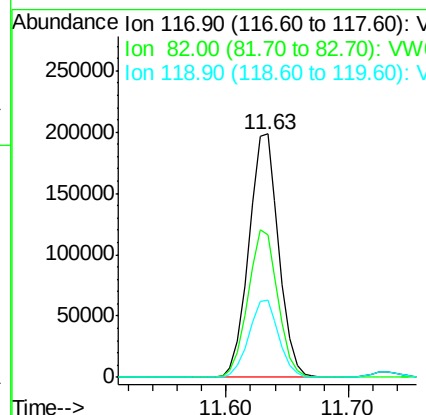
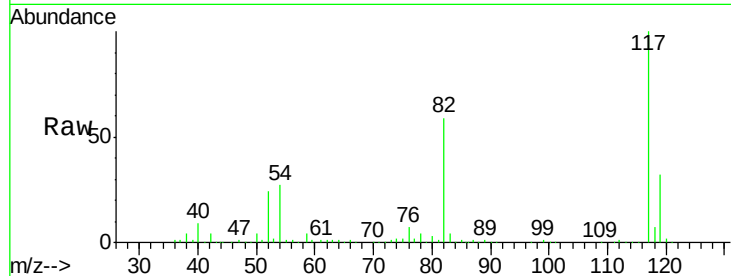
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.01 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.7	48.9	73.3
119	31.9	25.0	37.6

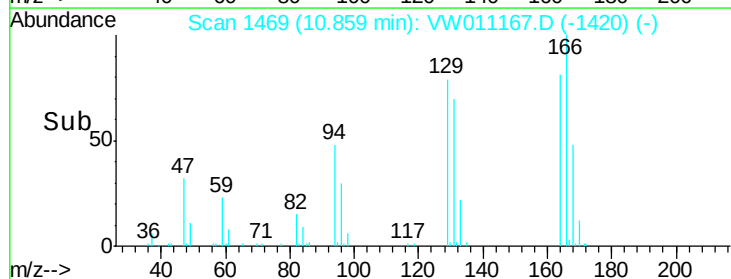
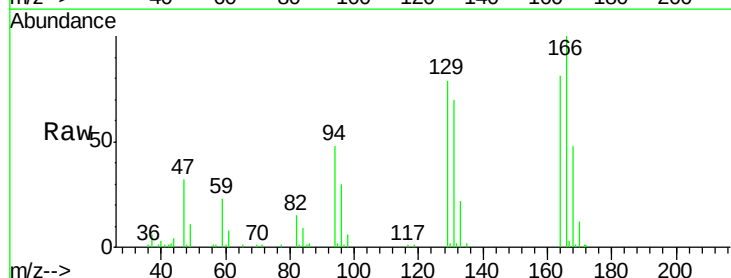
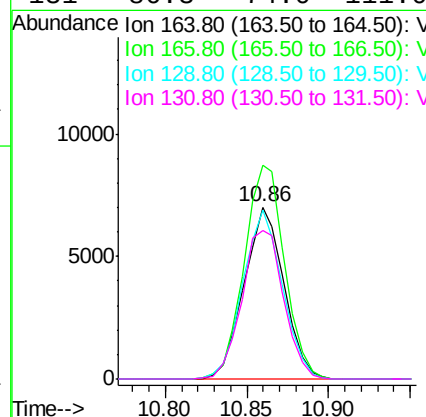
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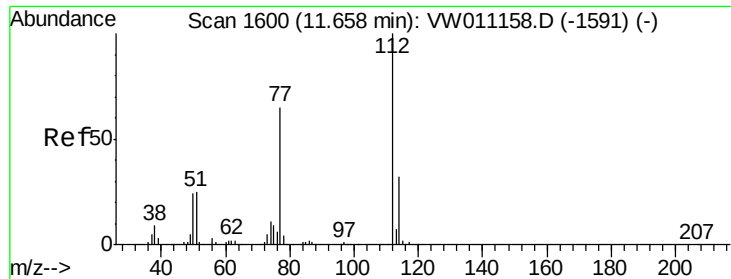
MMDadoda
7/9/2019 4:13:28 PM



#64
Tetrachloroethene
Concen: 5.240 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.1	99.7	149.5
129	98.1	76.2	114.2
131	86.3	74.0	111.0





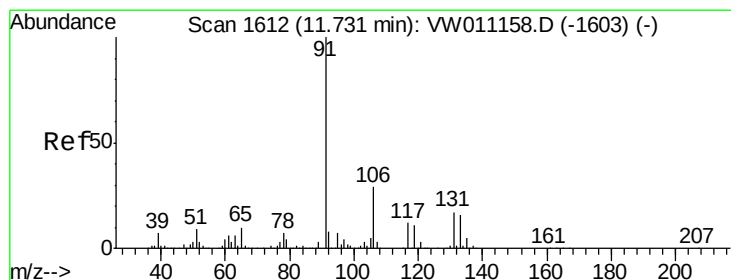
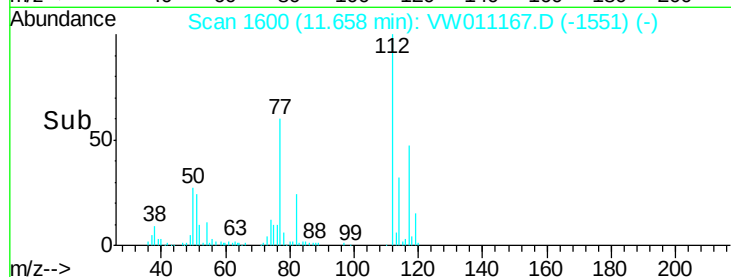
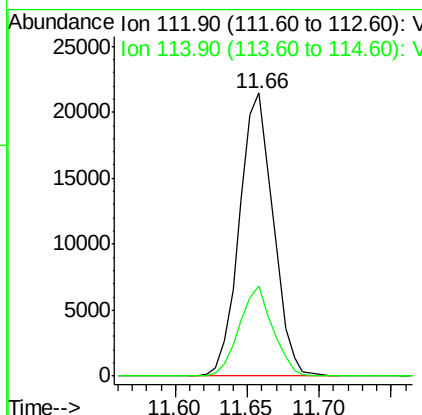
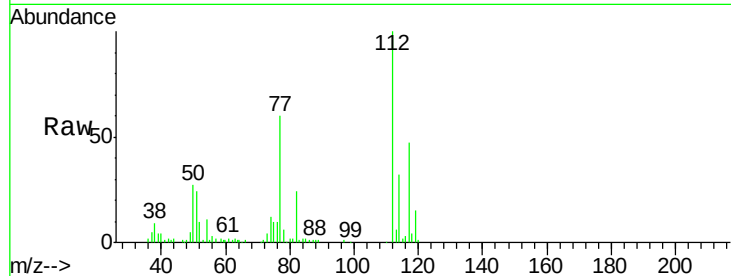
#65
Chlorobenzene
Concen: 5.094 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.7	25.5	38.3

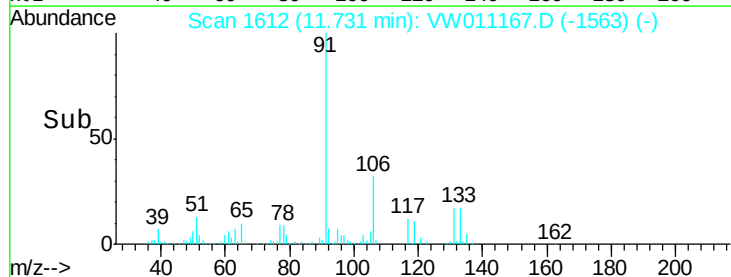
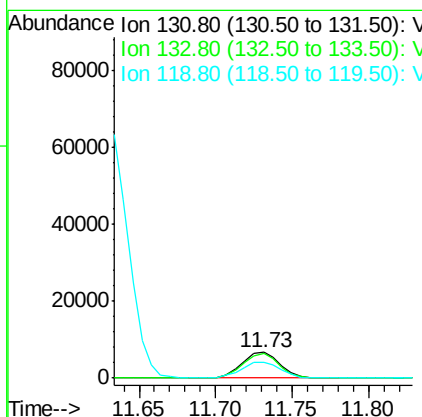
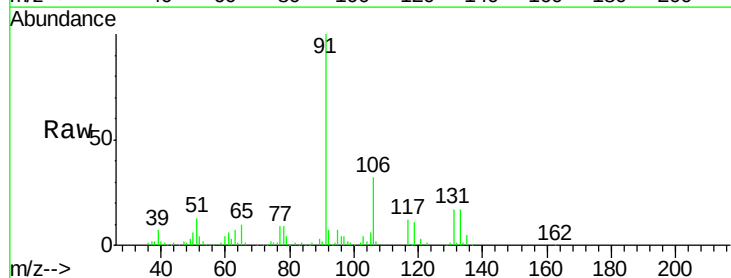
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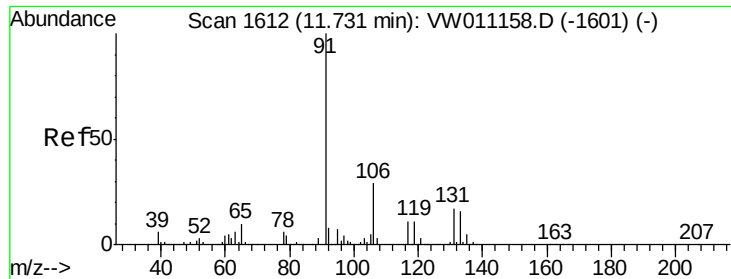
MMDadoda
7/9/2019 4:13:28 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 4.817 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion	Ratio	Lower	Upper
131	100		
133	93.0	47.9	143.8
119	64.9	33.1	99.2





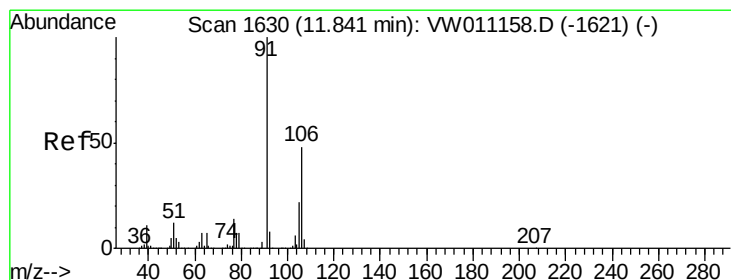
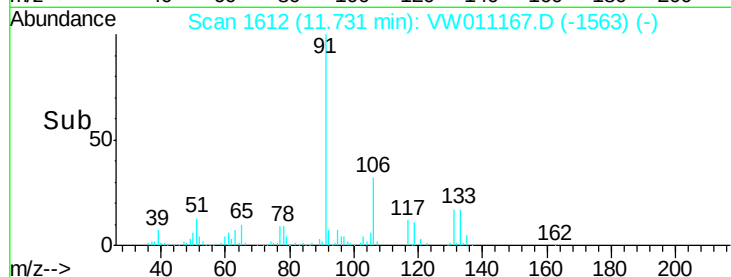
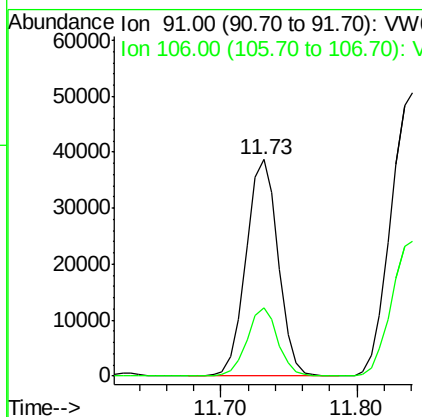
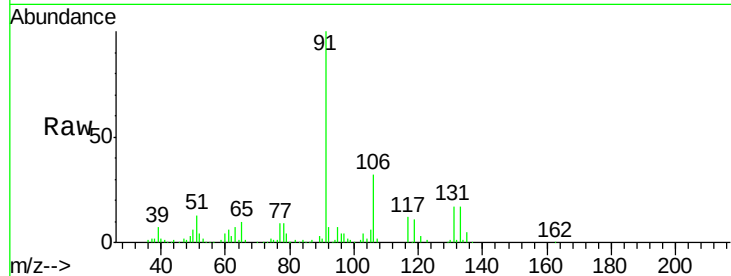
#67
Ethyl Benzene
Concen: 4.888 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

Tot Ion	91	Resp	64008
Ion Ratio	100	Lower	Upper
106	31.7	23.5	35.3

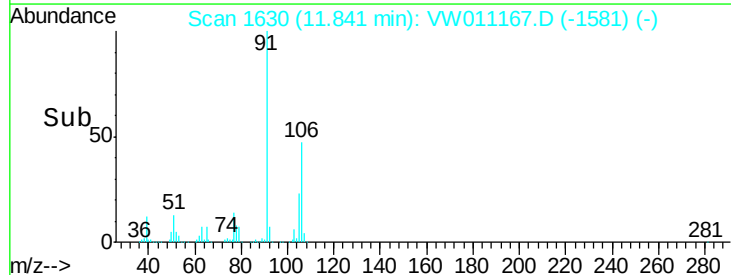
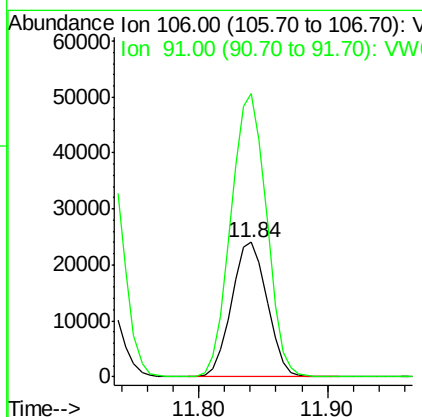
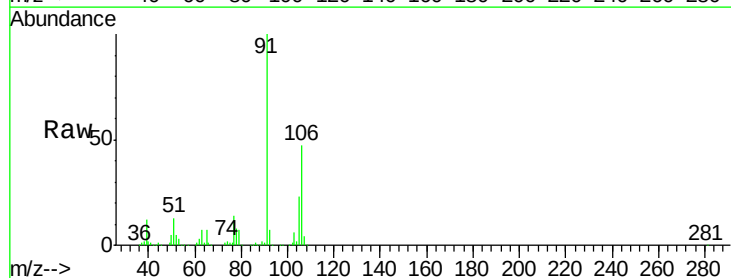
Manual Integrations
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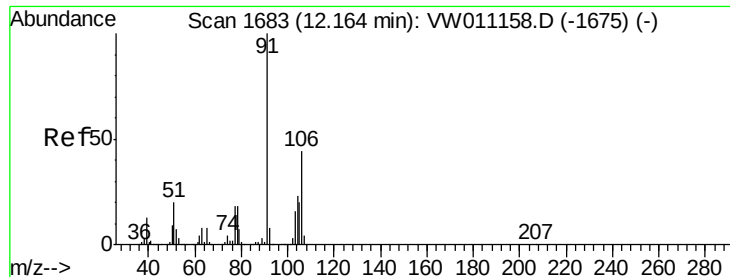
MMDadoda
7/9/2019 4:13:28 PM



#68
m/p-Xylenes
Concen: 9.756 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion	106	Resp	46226
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
91	209.6	167.7	251.5





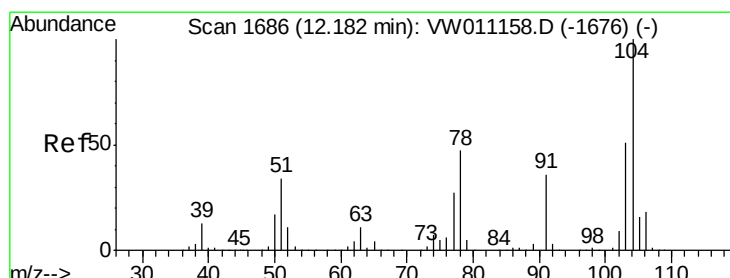
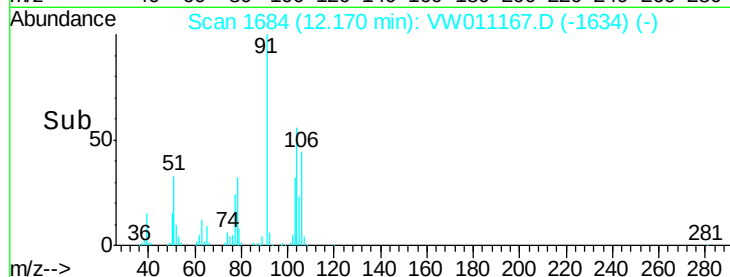
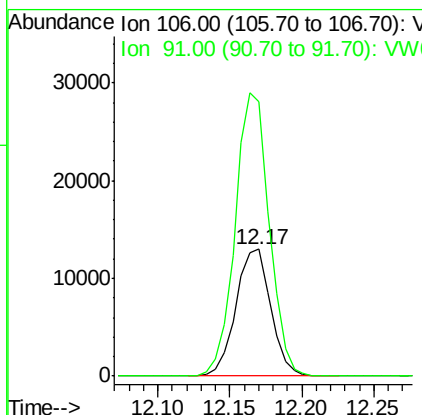
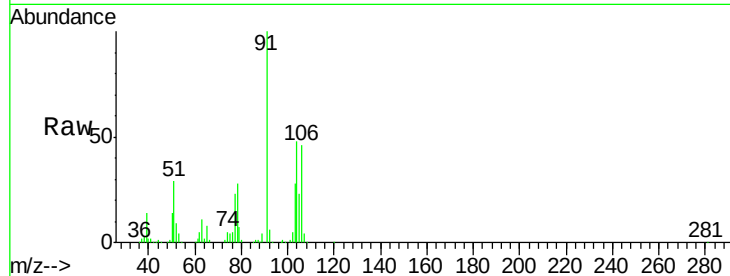
#69
o-Xylene
Concen: 4.885 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. 0.01 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

Tot Ion:106 Resp: 21815
Ion Ratio Lower Upper
106 100
91 217.9 110.7 332.1

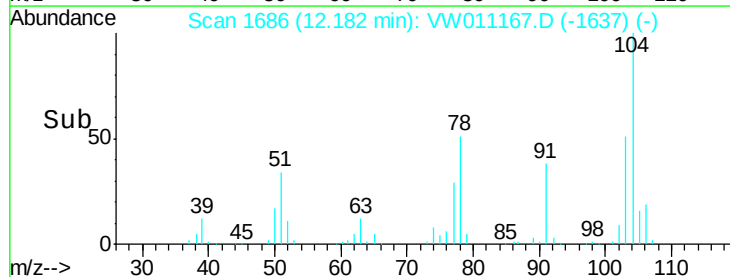
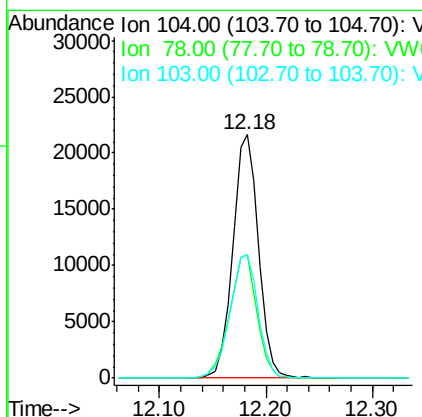
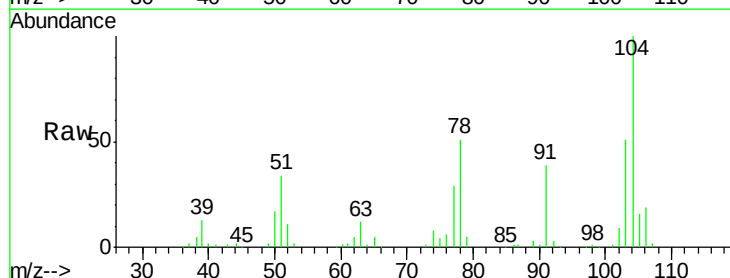
Manual Integrations
APPROVED

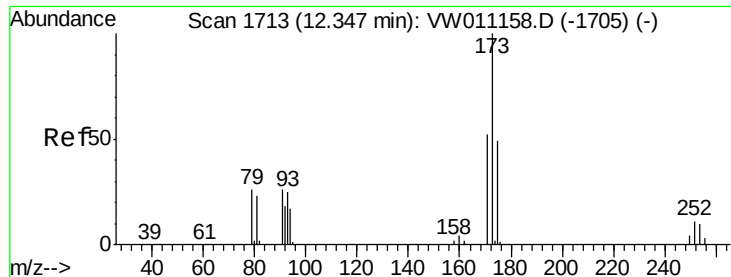
MMDadoda
7/9/2019 4:13:28 PM



#70
Styrene
Concen: 4.729 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion:104 Resp: 36444
Ion Ratio Lower Upper
104 100
78 54.2 43.1 64.7
103 55.3 44.1 66.1





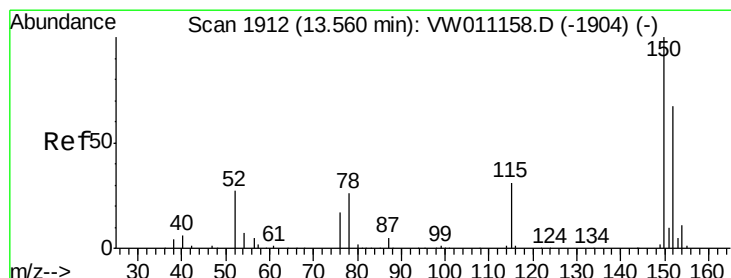
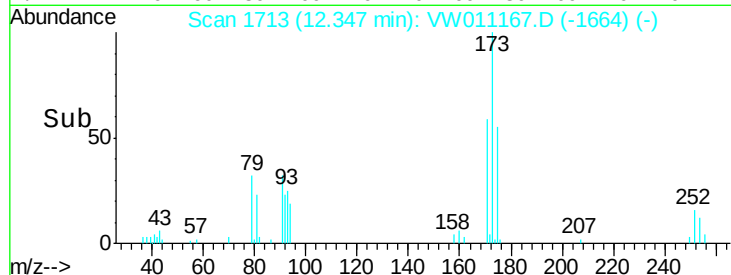
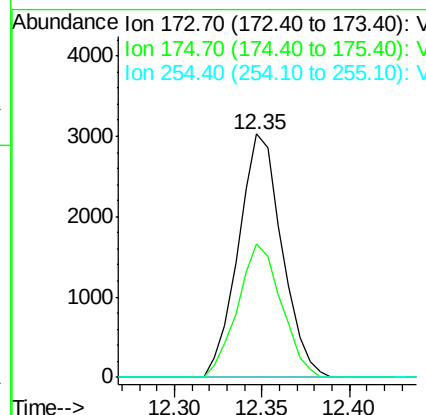
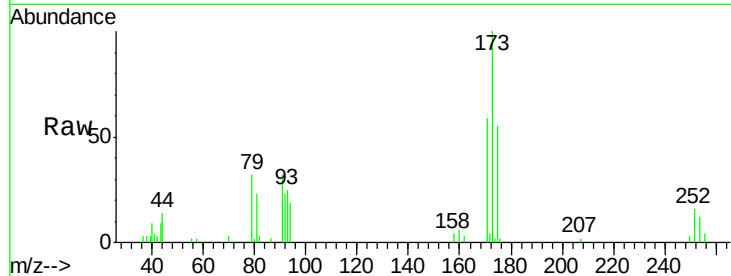
#71
Bromoform
Concen: 4.093 ug/l
RT: 12.35 min Scan# 1713
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
173	100		
175	55.0	24.8	74.3
254	0.0	0.0	0.0

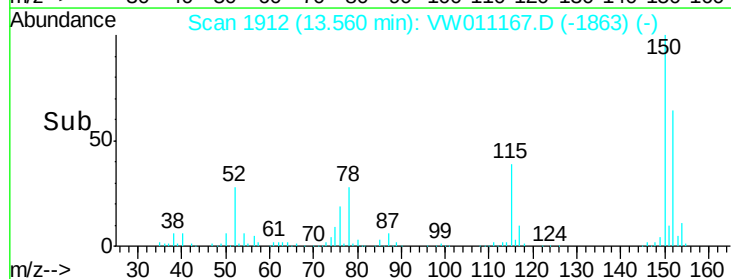
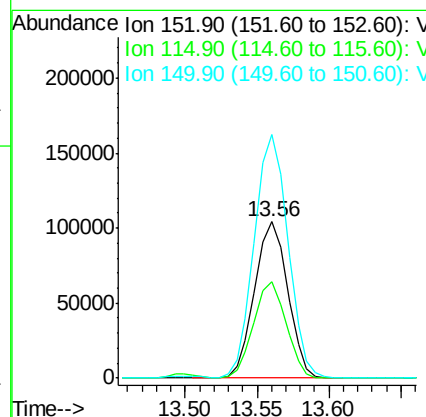
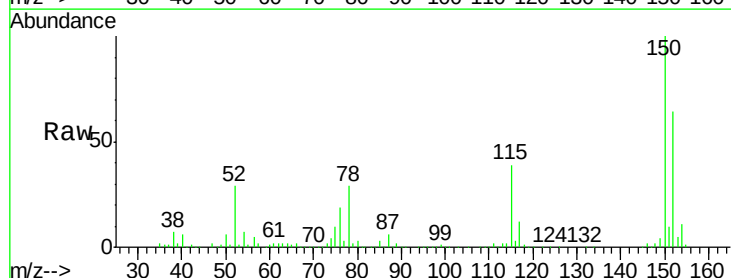
Manual Integrations
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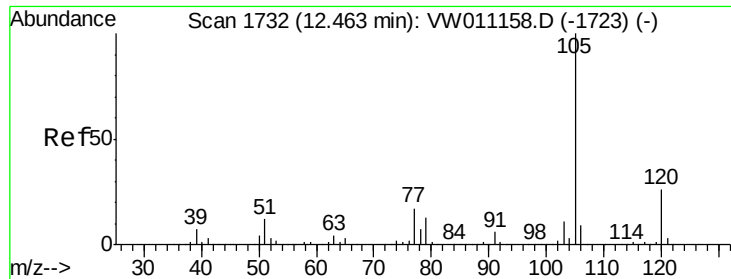
MMDadoda
7/9/2019 4:13:28 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.8	30.1	90.3
150	158.7	0.0	346.0





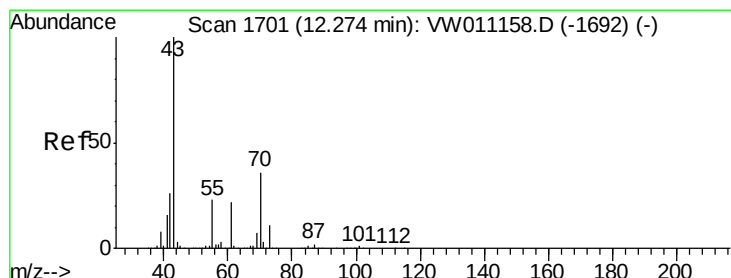
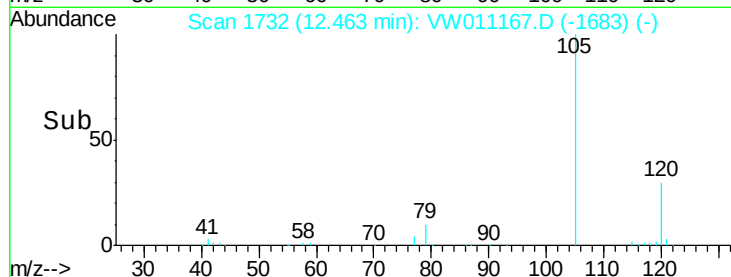
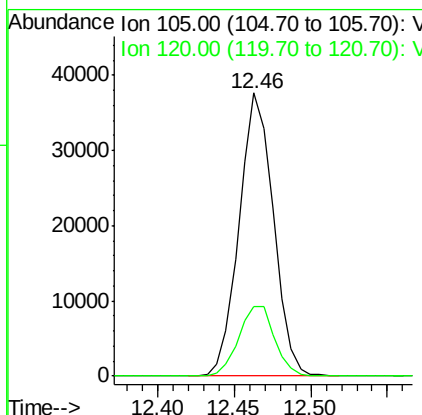
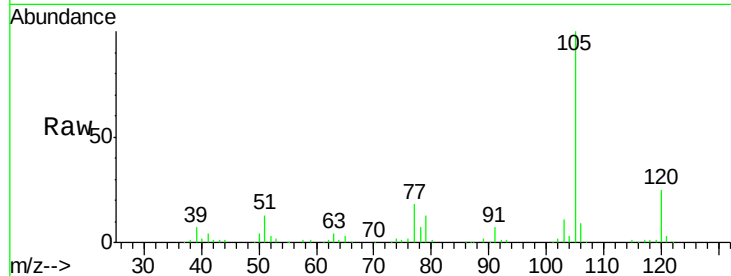
#73
Isopropylbenzene
Concen: 4.724 ug/l
RT: 12.46 min Scan# 1732
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

Tot Ion: 105 Resp: 58563
Ion Ratio Lower Upper
105 100
120 25.9 12.8 38.3

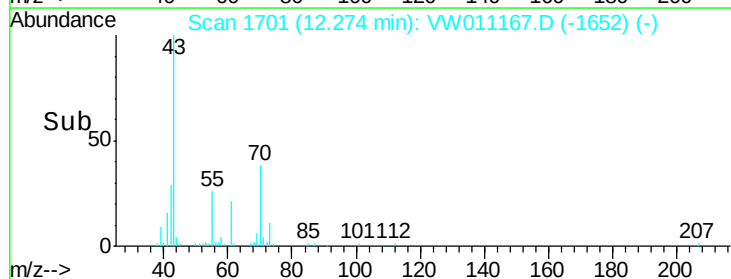
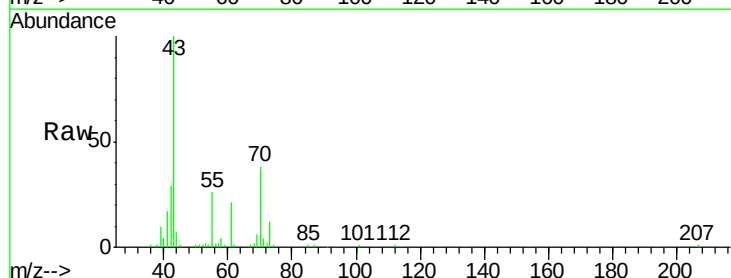
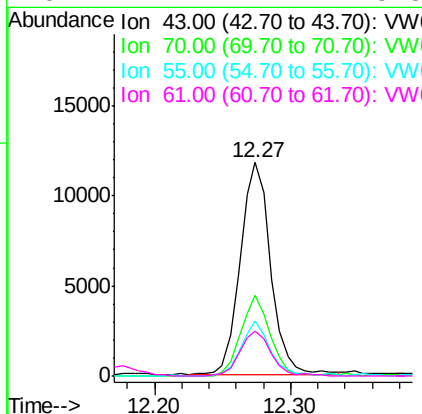
Manual Integrations
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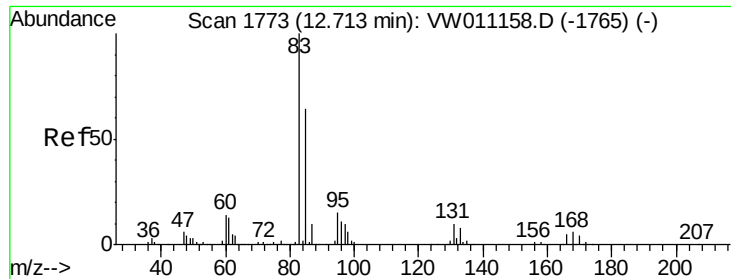
MMDadoda
7/9/2019 4:13:28 PM



#74
N-ethyl acetate
Concen: 4.286 ug/l
RT: 12.27 min Scan# 1701
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion: 43 Resp: 18508
Ion Ratio Lower Upper
43 100
70 36.1 28.5 42.7
55 24.2 18.1 27.1
61 21.4 17.2 25.8





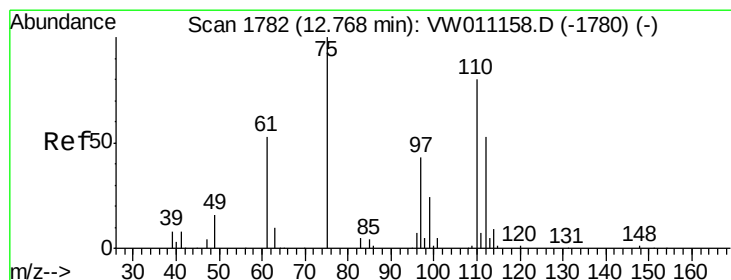
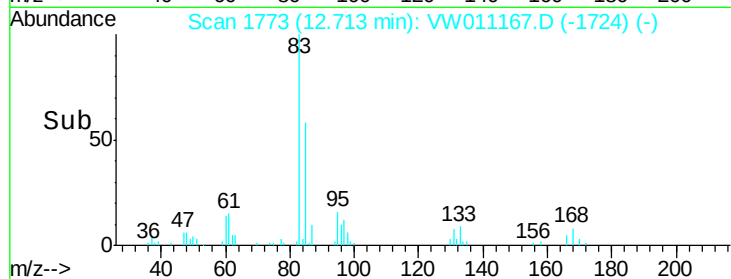
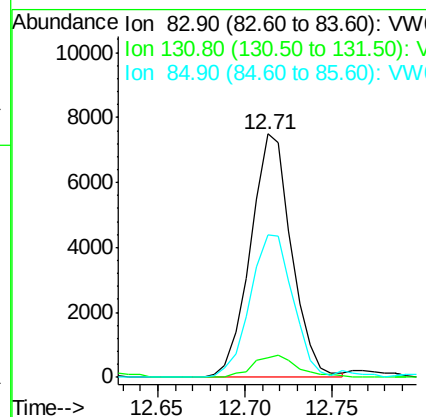
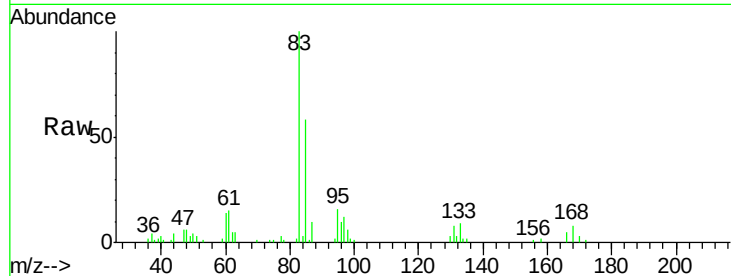
#75
 1,1,2,2-Tetrachloroethane
 Concen: 4.811 ug/l
 RT: 12.71 min Scan# 1773
 Delta R.T. 0.00 min
 Lab File: VW011167.D
 Acq: 08 Jul 2019 18:07

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.0	15.0
85	61.2	31.6	94.8

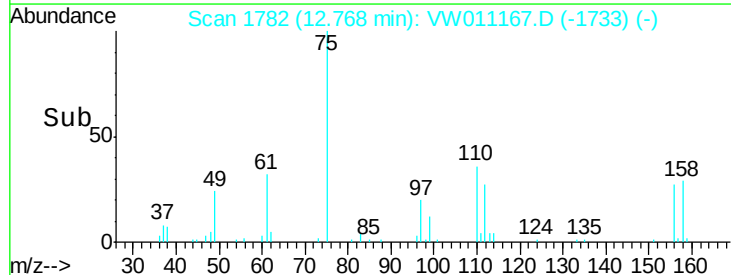
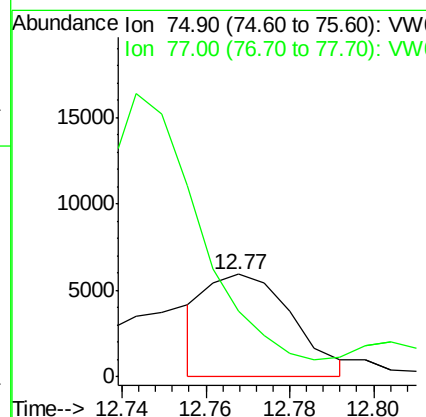
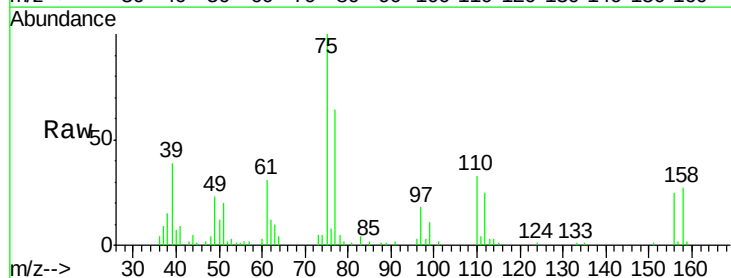
Manual Integrations
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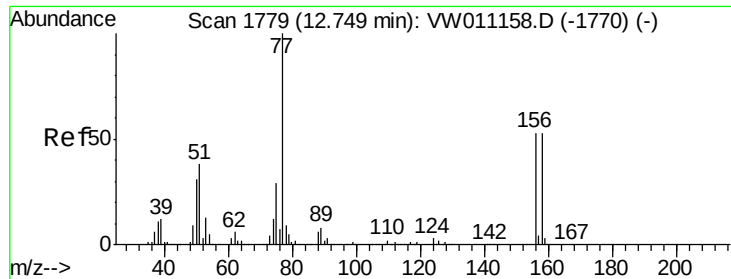
MMDadoda
 7/9/2019 4:13:28 PM



#76
 1,2,3-Trichloropropane
 Concen: 4.427 ug/l m
 RT: 12.77 min Scan# 1782
 Delta R.T. 0.00 min
 Lab File: VW011167.D
 Acq: 08 Jul 2019 18:07

Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 4.853 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

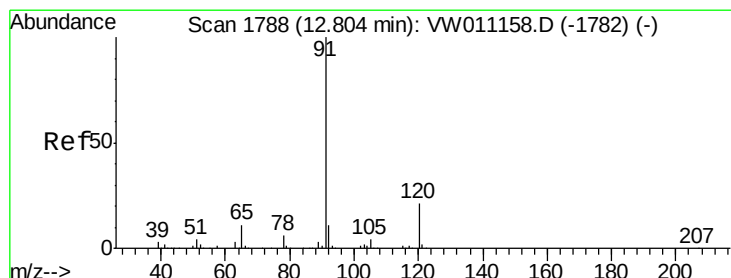
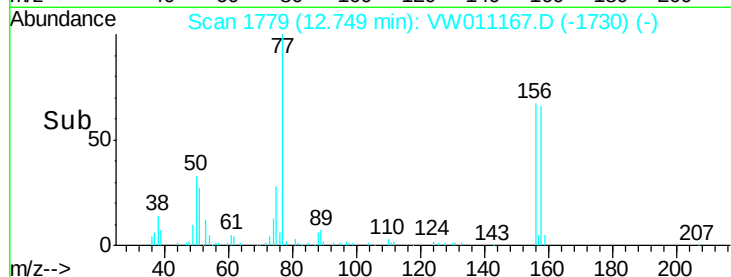
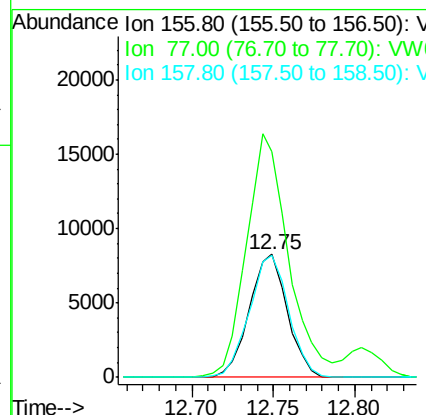
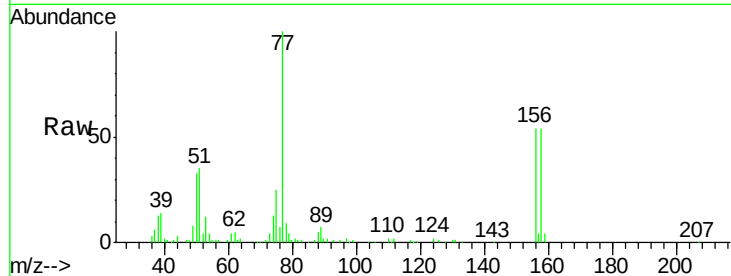
ClientSampleId :

LOQ-SOIL-02-QT3-2019

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100				
77	217.4	109.0	327.0		
158	102.3	48.8	146.3		

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#78

n-propylbenzene

Concen: 4.804 ug/l

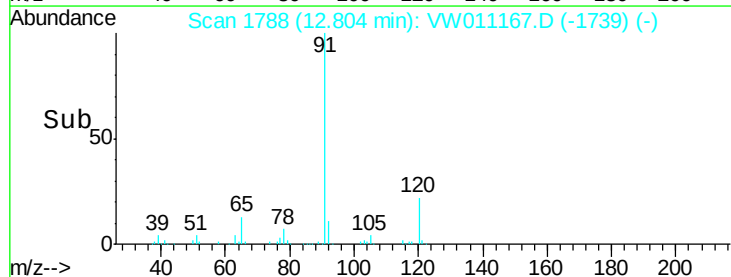
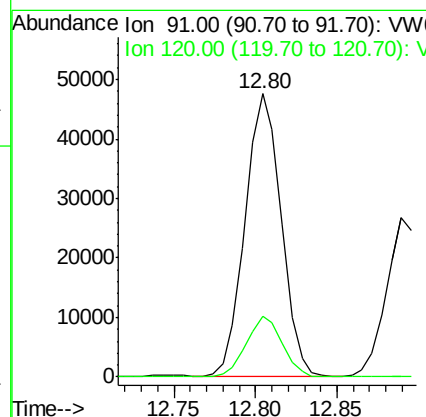
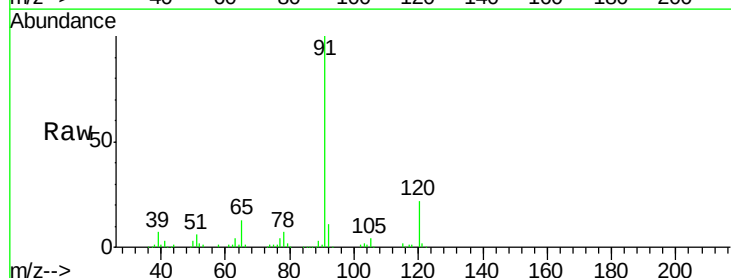
RT: 12.80 min Scan# 1788

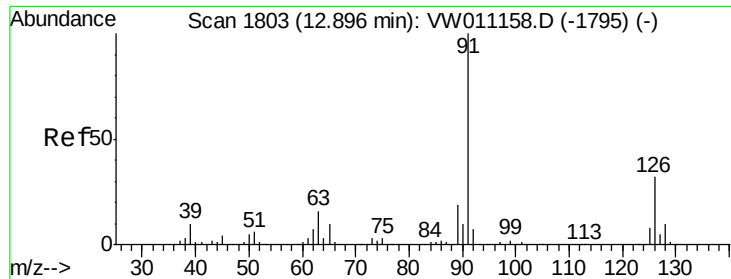
Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100				
120	21.4	10.8	32.3		





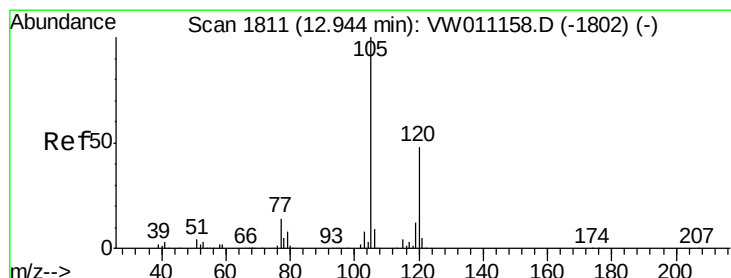
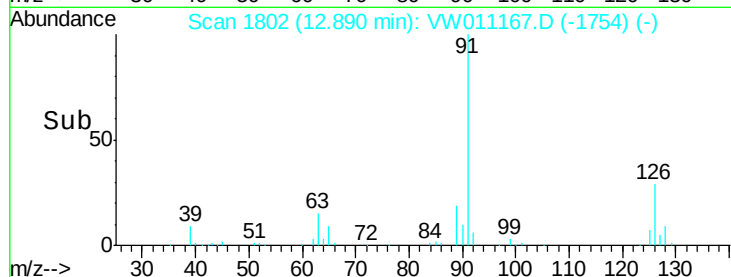
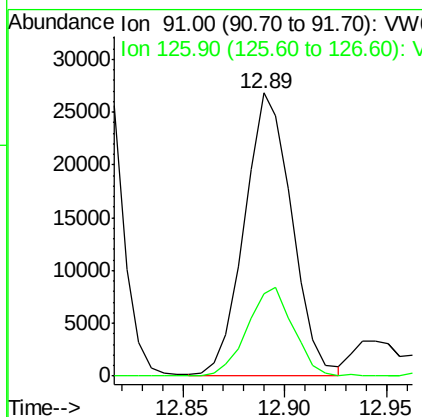
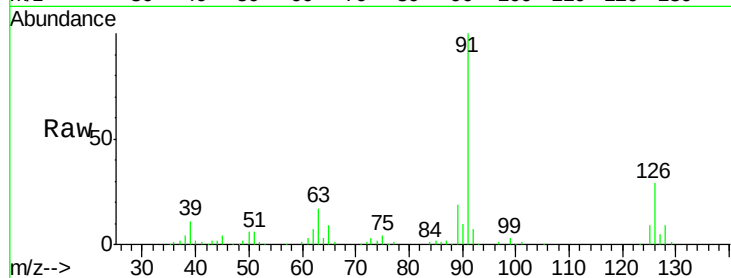
#79
2-Chlorotoluene
Concen: 4.906 ug/l
RT: 12.89 min Scan# 1802
Delta R.T. -0.01 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

Tot Ion: 91 Resp: 43114
Ion Ratio Lower Upper
91 100
126 30.7 15.8 47.3

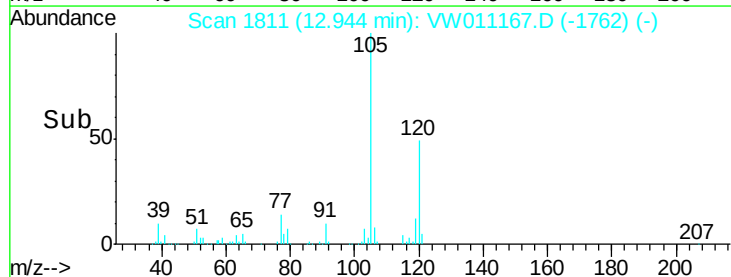
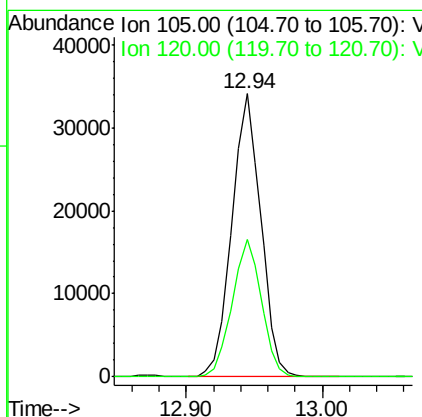
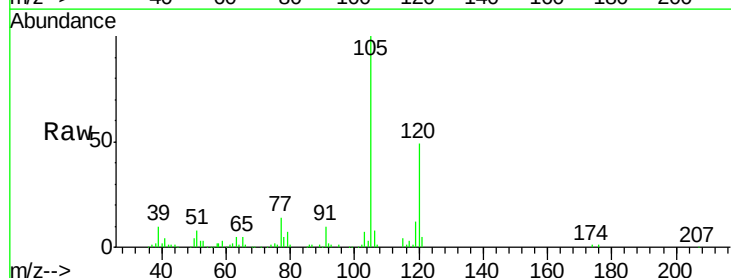
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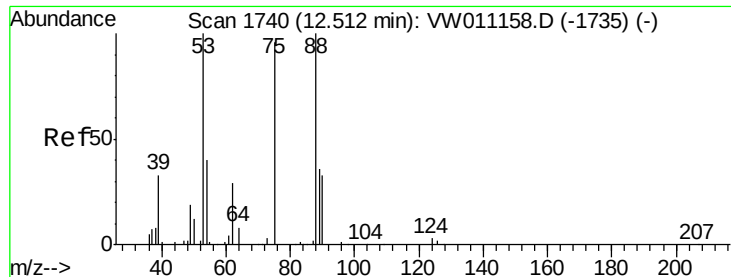
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#80
1,3,5-Trimethylbenzene
Concen: 4.800 ug/l
RT: 12.94 min Scan# 1811
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion:105 Resp: 50561
Ion Ratio Lower Upper
105 100
120 49.1 24.1 72.2





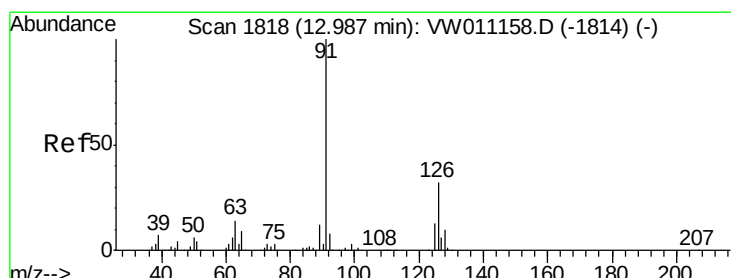
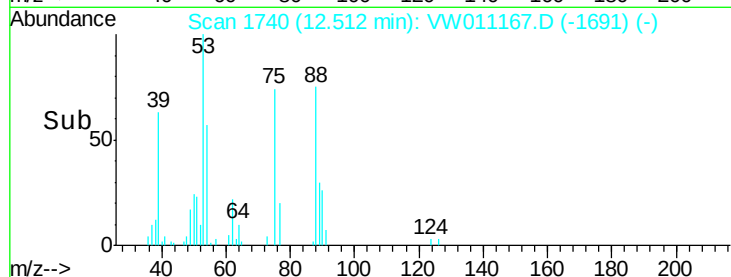
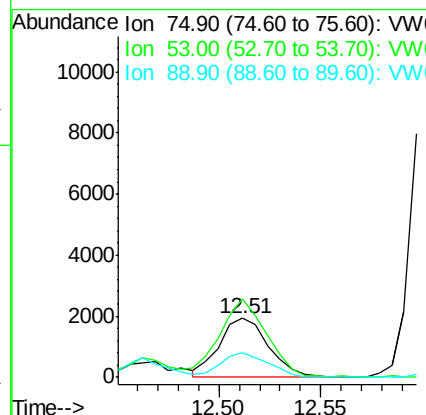
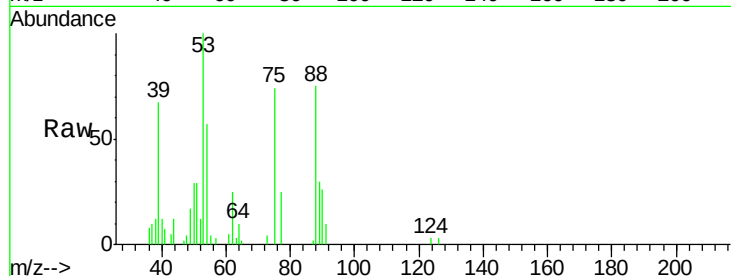
#81
trans-1,4-Dichloro-2-butene
Concen: 3.822 ug/l
RT: 12.51 min Scan# 1740
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
75	100		
53	129.2	89.8	134.6
89	40.0	34.3	51.5

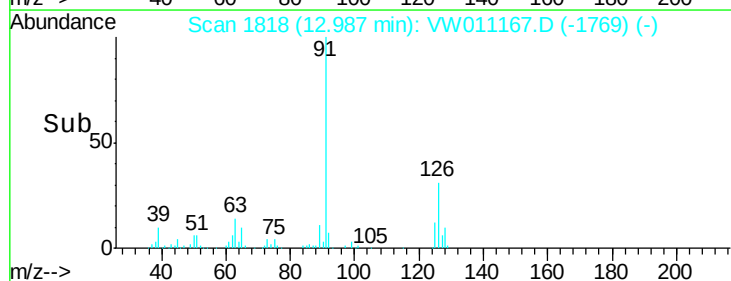
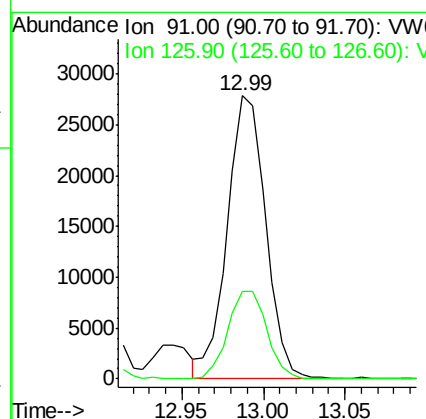
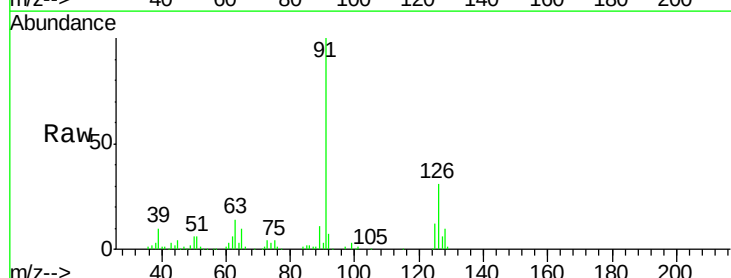
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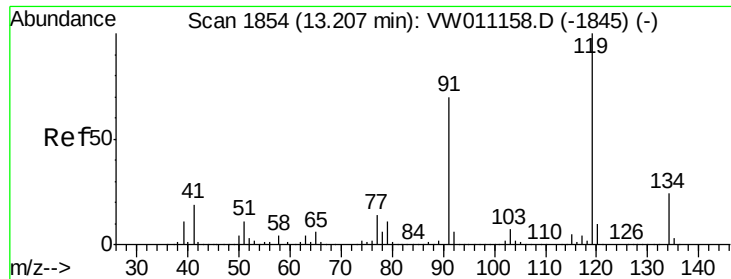
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#82
4-Chlorotoluene
Concen: 4.955 ug/l
RT: 12.99 min Scan# 1818
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.0	15.7	47.1





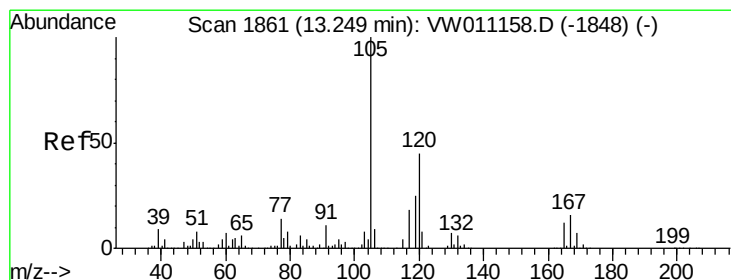
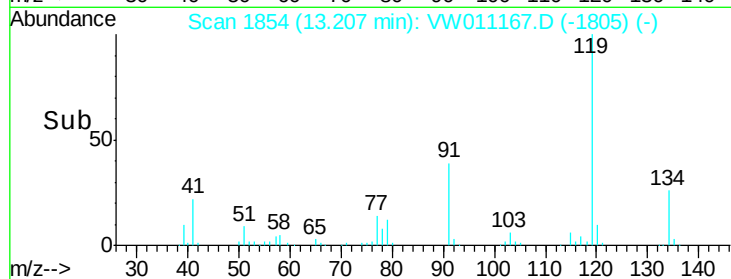
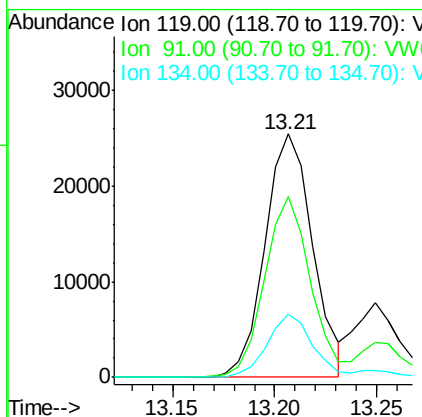
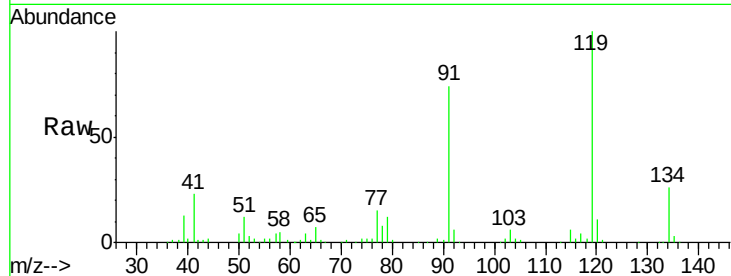
#83
tert-Butylbenzene
Concen: 4.730 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
119	100		
91	72.1	35.4	106.3
134	24.8	13.4	40.2

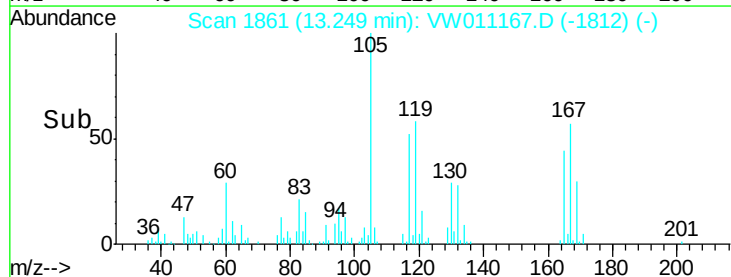
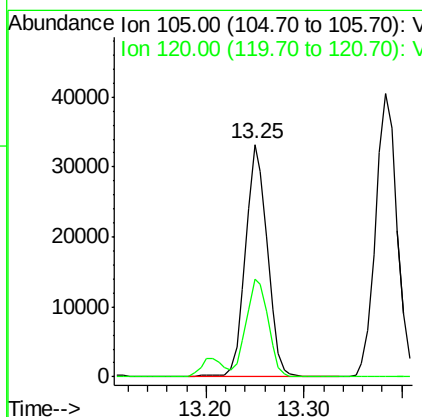
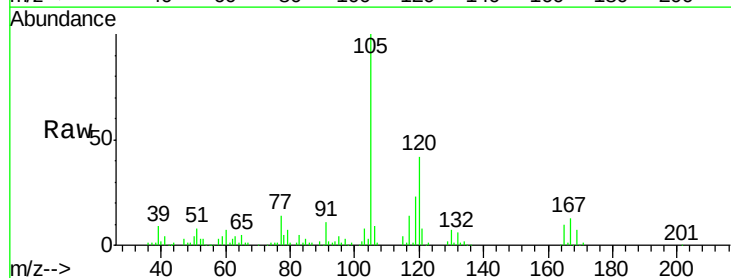
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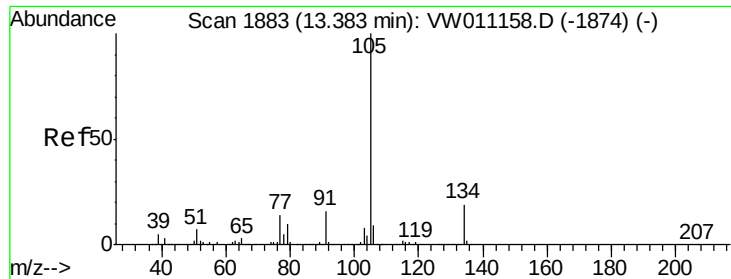
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#84
1,2,4-Trimethylbenzene
Concen: 4.870 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion	Ratio	Lower	Upper
105	100		
120	42.4	22.3	66.9





#85

sec-Butylbenzene

Concen: 4.844 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT3-2019

Tot Ion:105 Resp: 61397

Ion Ratio Lower Upper

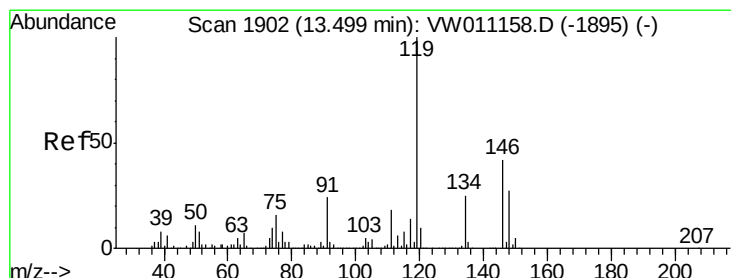
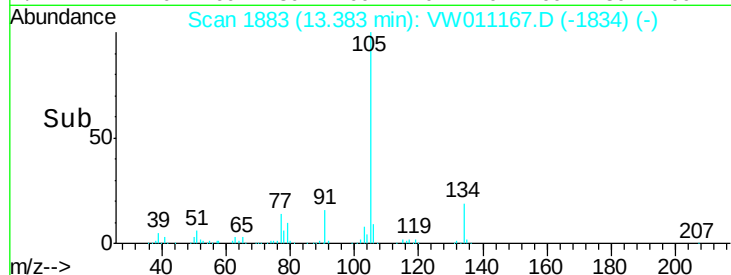
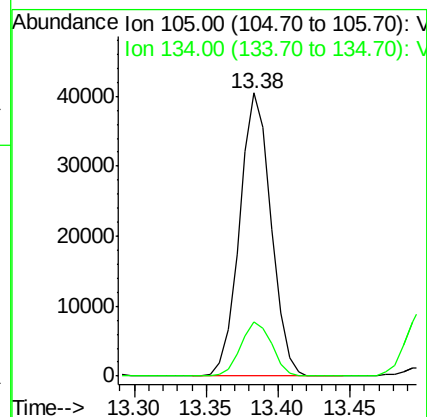
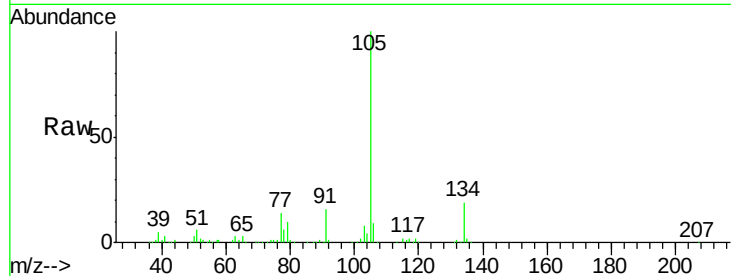
105 100

134 19.1 9.7 28.9

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#86

p-Isopropyltoluene

Concen: 4.764 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

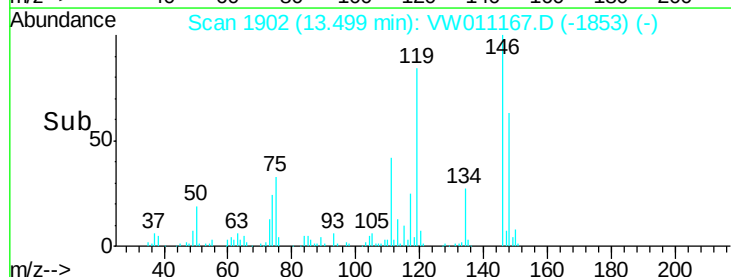
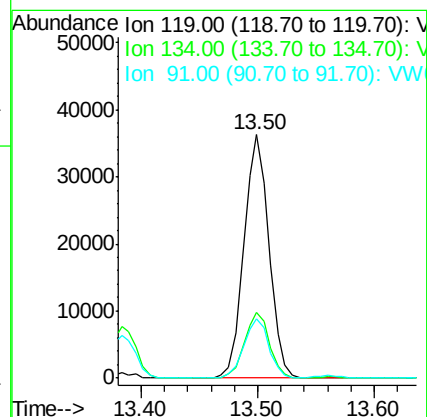
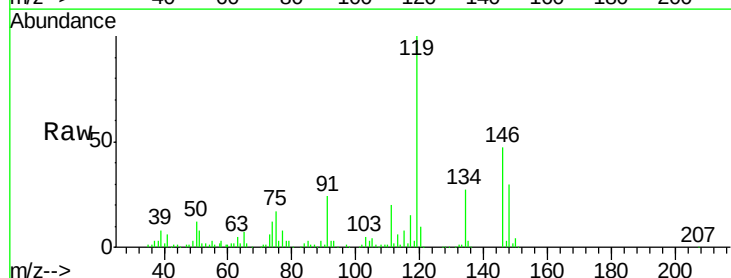
Tgt Ion:119 Resp: 54162

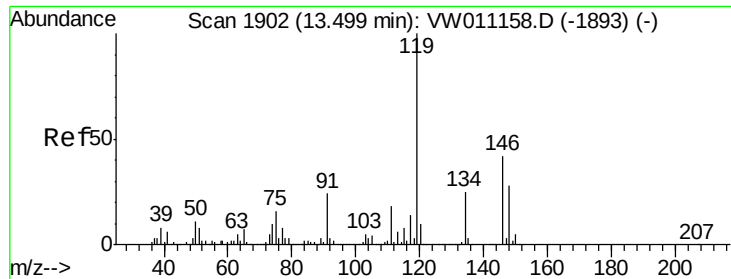
Ion Ratio Lower Upper

119 100

134 26.8 12.9 38.6

91 24.6 12.3 36.8





#87

1,3-Dichlorobenzene

Concen: 5.112 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

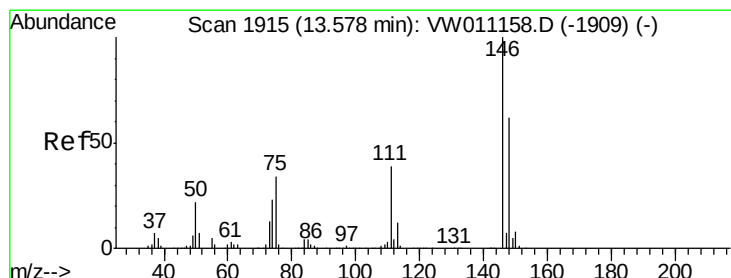
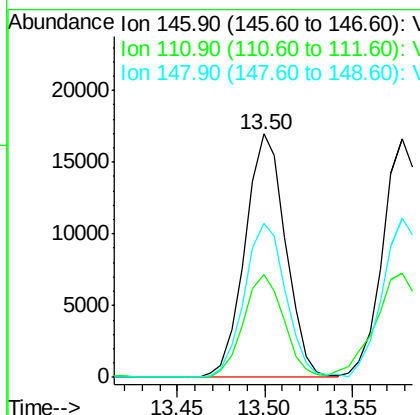
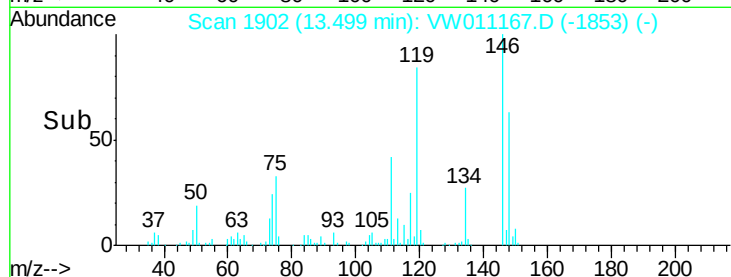
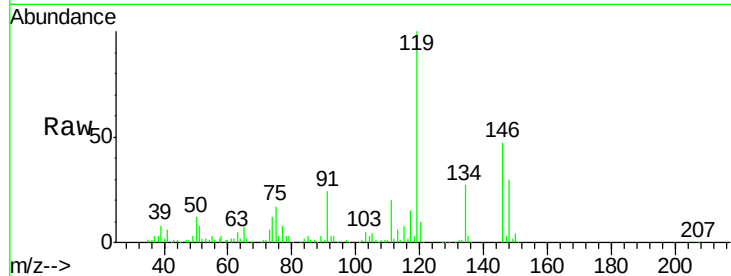
Instrument :
MSVOA_W

ClientSampleId :
LOQ-SOIL-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.1	63.1
148	64.6	32.6	97.7

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#88

1,4-Dichlorobenzene

Concen: 5.059 ug/l

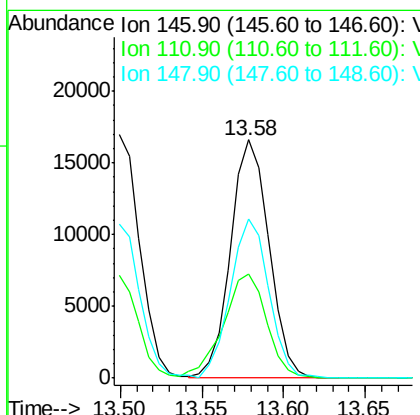
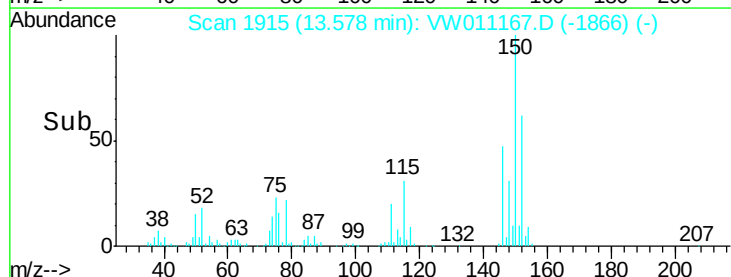
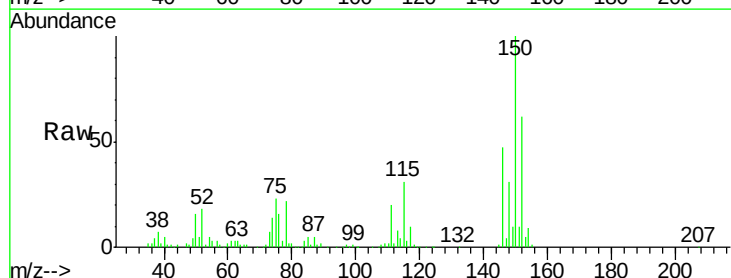
RT: 13.58 min Scan# 1915

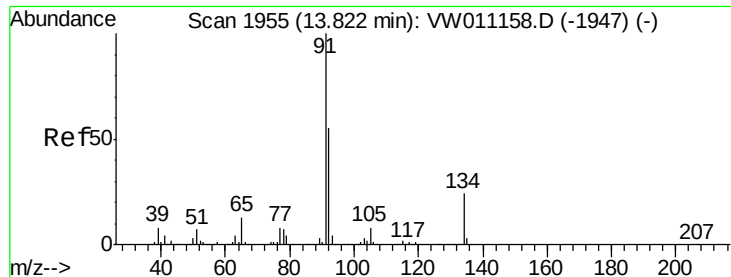
Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Tgt Ion	Ratio	Lower	Upper
146	100		
111	49.3	19.9	59.7
148	66.9	31.5	94.5





#89

n-Butylbenzene

Concen: 4.813 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

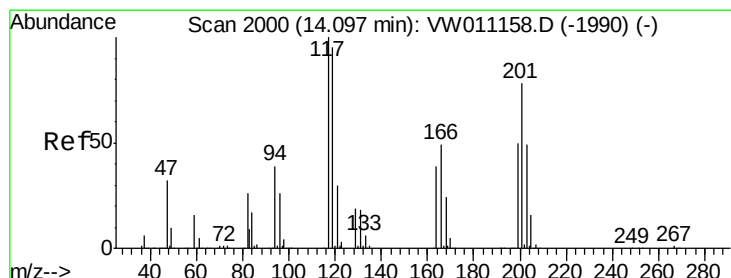
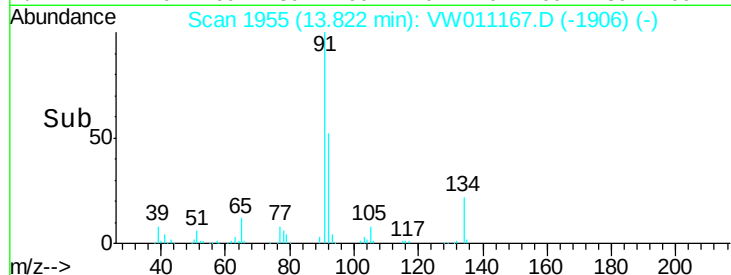
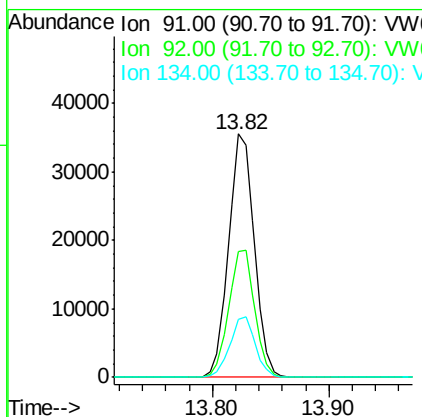
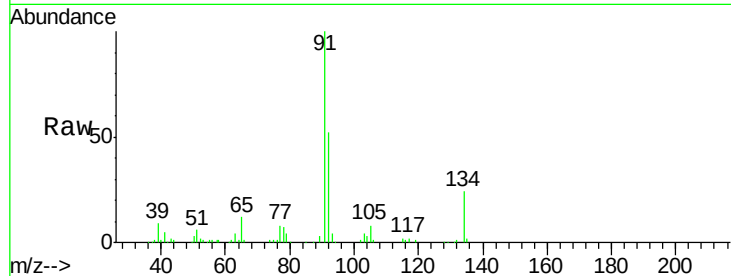
ClientSampleId :

LOQ-SOIL-02-QT3-2019

Tot Ion:	91	Resp:	54587
Ion	Ratio	Lower	Upper
91	100		
92	52.7	26.9	80.7
134	24.7	12.2	36.4

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#90

Hexachloroethane

Concen: 4.433 ug/l

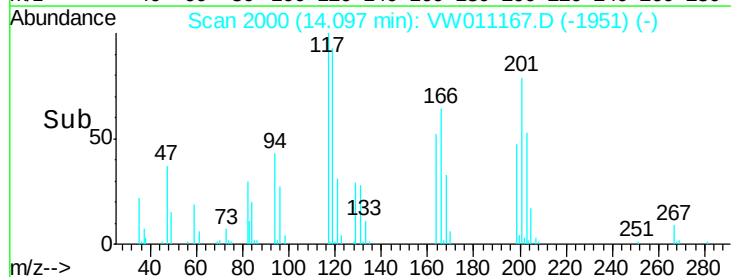
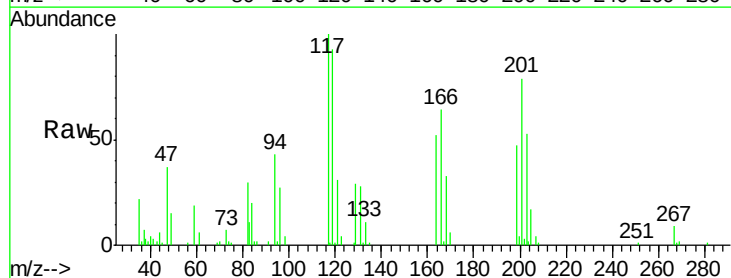
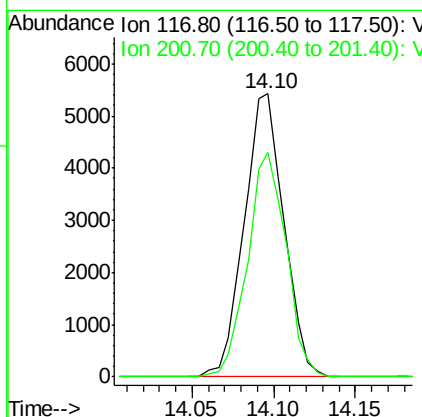
RT: 14.10 min Scan# 2000

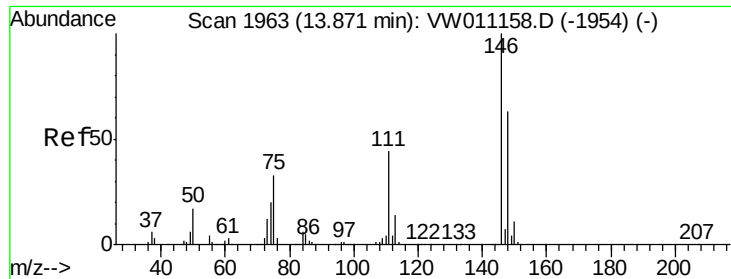
Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Tgt Ion:	117	Resp:	9210
Ion	Ratio	Lower	Upper
117	100		
201	76.8	38.3	114.8





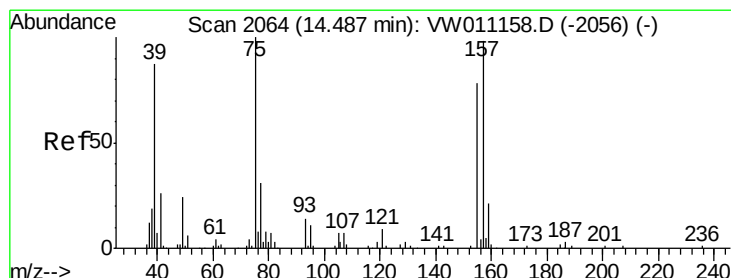
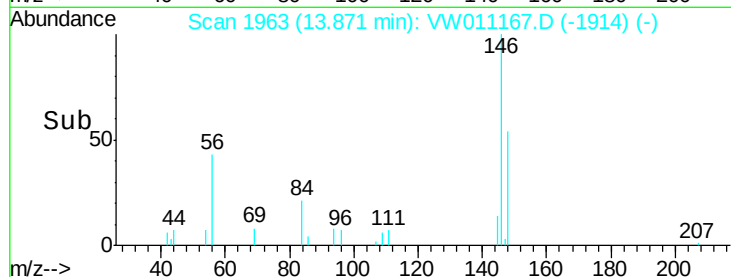
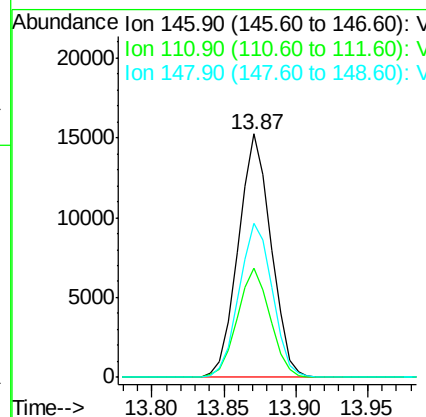
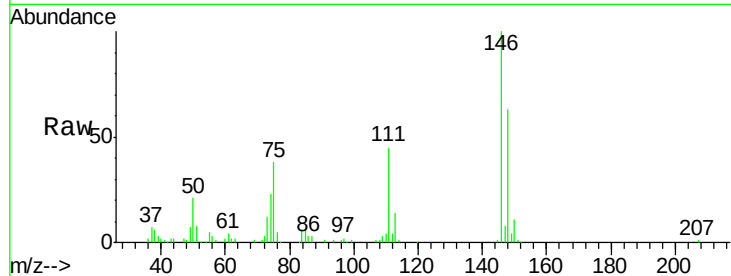
#91
 1,2-Dichlorobenzene
 Concen: 4.974 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW011167.D
 Acq: 08 Jul 2019 18:07

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.7	21.6	65.0
148	64.2	31.9	95.5

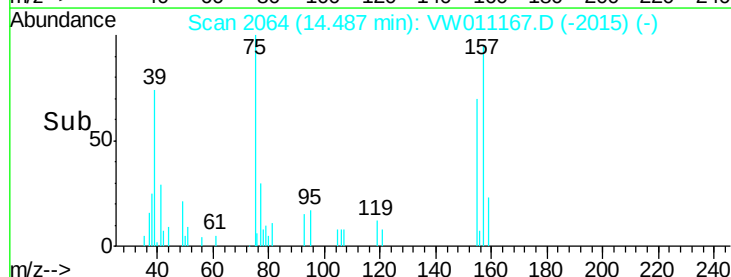
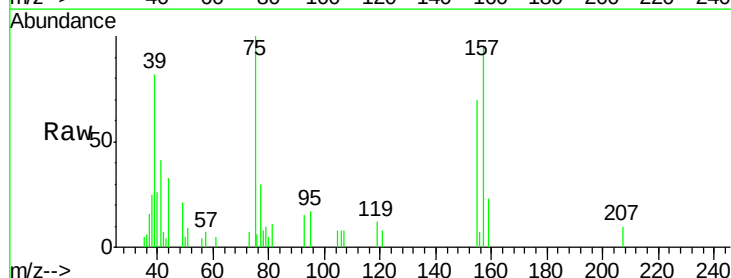
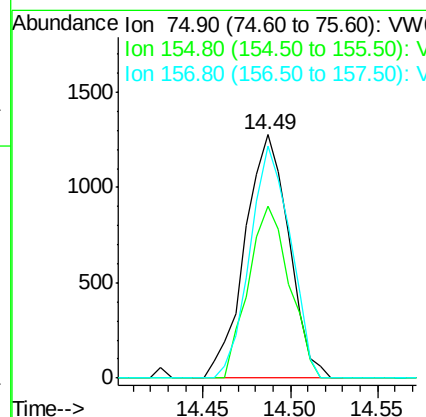
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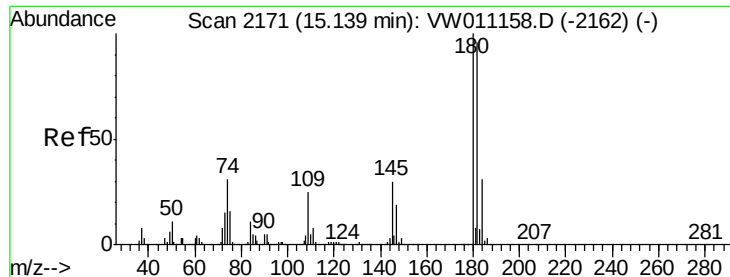
MMDadoda
 7/9/2019 4:13:28 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.956 ug/l
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VW011167.D
 Acq: 08 Jul 2019 18:07

Tgt Ion	Ratio	Lower	Upper
75	100		
155	66.0	37.1	111.3
157	87.4	48.5	145.6





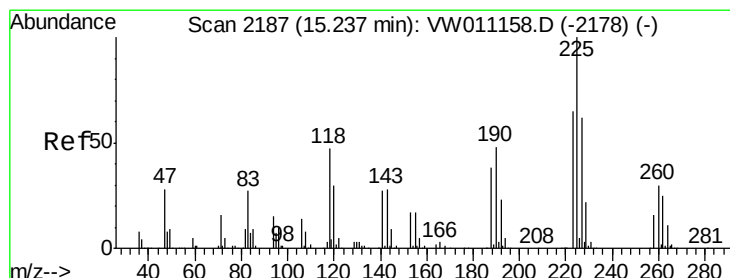
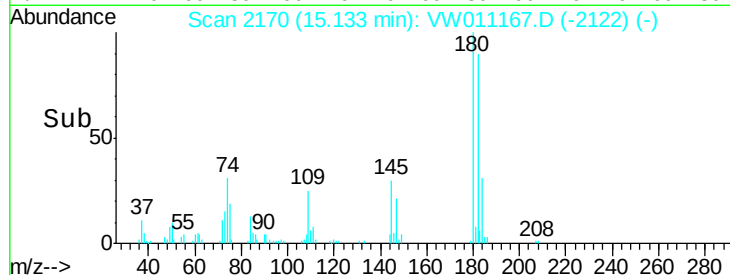
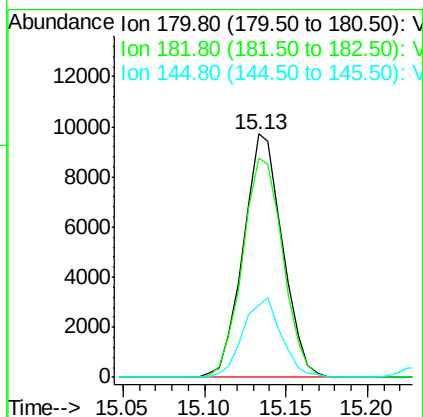
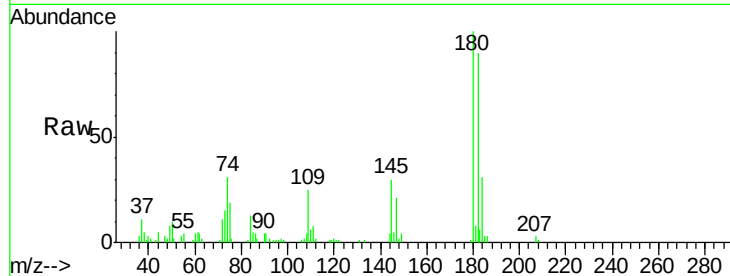
#93
 1,2,4-Trichlorobenzene
 Concen: 4.861 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.01 min
 Lab File: VW011167.D
 Acq: 08 Jul 2019 18:07

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT3-2019

Tot Ion	Ratio	Resp	Lower	Upper
180	100	16260		
182	92.8	48.3	144.9	
145	31.9	15.5	46.5	

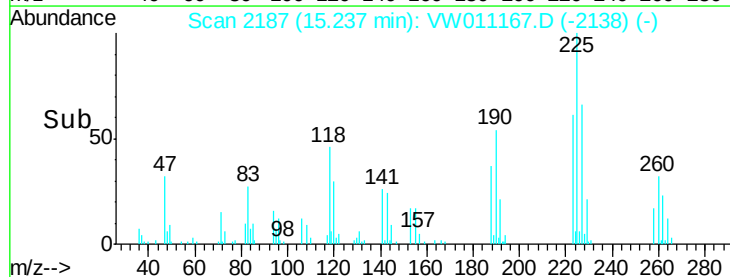
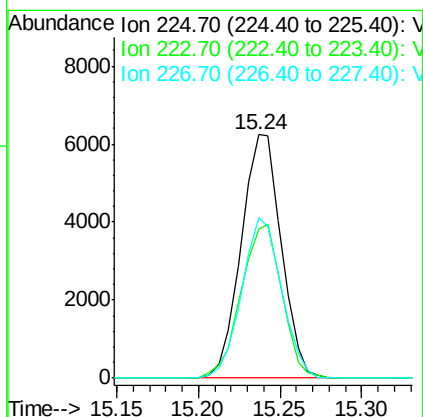
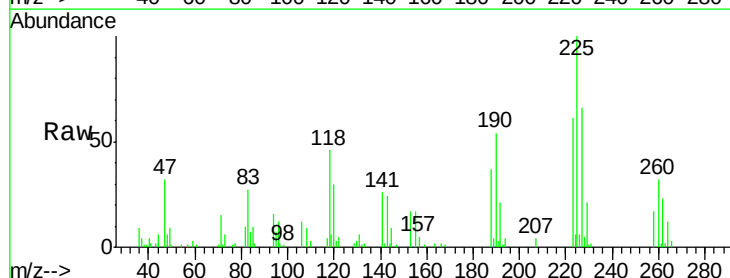
Manual Integrations
 APPROVED

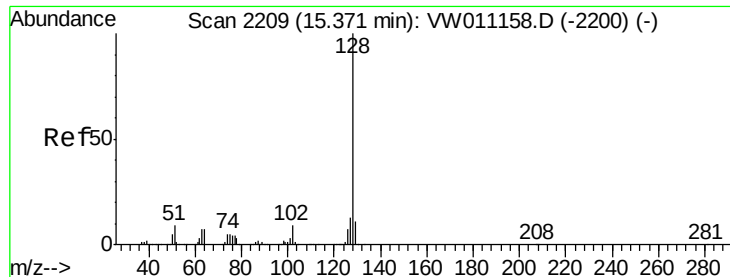
MMDadoda
 7/9/2019 4:13:28 PM



#94
 Hexachlorobutadiene
 Concen: 5.192 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. 0.00 min
 Lab File: VW011167.D
 Acq: 08 Jul 2019 18:07

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	10662		
223	64.2	31.6	95.0	
227	65.8	32.0	96.0	





#95

Naphthalene

Concen: 4.330 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

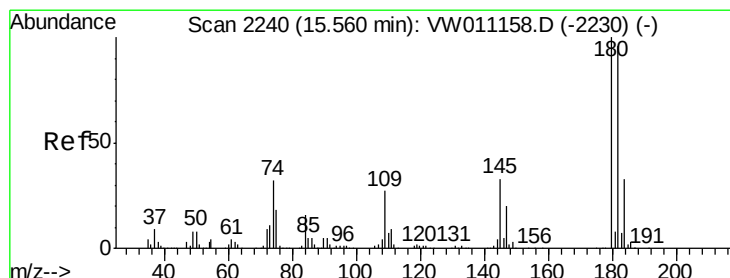
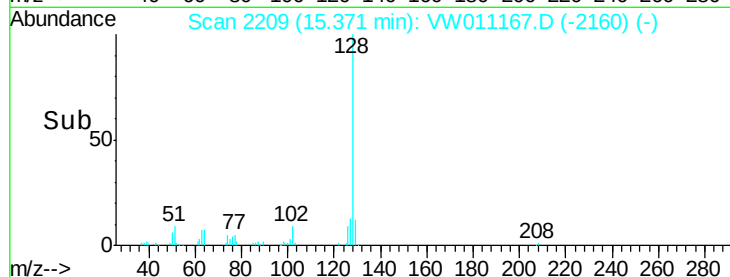
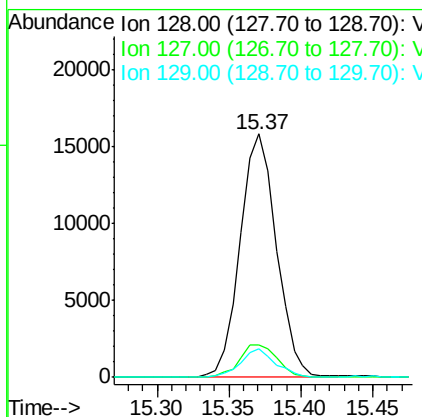
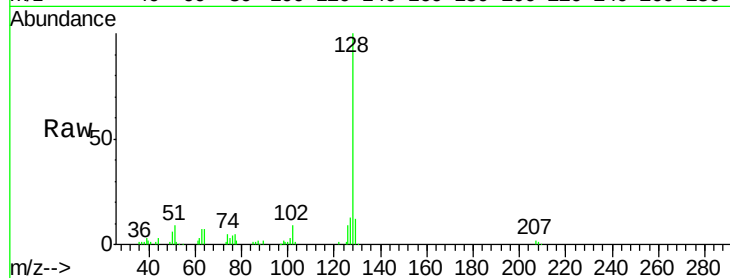
ClientSampleId :

LOQ-SOIL-02-QT3-2019

Tot Ion:	128	Resp:	27753
Ion Ratio	Lower	Upper	
128	100		
127	14.1	10.6	16.0
129	11.1	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
7/9/2019 4:13:28 PM



#96

1,2,3-Trichlorobenzene

Concen: 4.810 ug/l

RT: 15.56 min Scan# 2240

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Tgt Ion:	180	Resp:	14201
Ion Ratio	Lower	Upper	
180	100		
182	97.2	47.6	142.8
145	33.5	16.5	49.5

