

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW041719\
 Data File : VW010020.D
 Acq On : 17 Apr 2019 17:07
 Operator : SY/VA
 Sample : K2241-02
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

Manual Integrations
 APPROVED

MMDadoda
 4/18/2019 11:40:38 AM

Quant Time: Apr 18 02:53:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W041719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 18 02:23:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	370541	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	607382	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	547353	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	279230	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	231349	50.59	ug/l	0.00
Spiked Amount			Recovery	=	101.18%	
35) Dibromofluoromethane	7.88	113	181812	47.08	ug/l	0.00
Spiked Amount			Recovery	=	94.16%	
50) Toluene-d8	10.32	98	719602	49.73	ug/l	0.00
Spiked Amount			Recovery	=	99.46%	
62) 4-Bromofluorobenzene	12.62	95	255963	48.66	ug/l	0.00
Spiked Amount			Recovery	=	97.32%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.01	85	25713	9.101	ug/l	90
3) Chloromethane	2.21	50	25056	8.868	ug/l	97
4) Vinyl Chloride	2.36	62	30229	9.204	ug/l	89
5) Bromomethane	2.78	94	20768	9.410	ug/l	98
6) Chloroethane	2.93	64	19875	9.262	ug/l	100
7) Trichlorofluoromethane	3.26	101	18802	8.280	ug/l	94
8) Diethyl Ether	3.67	74	17449	9.238	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	4.05	101	36827	9.638	ug/l	99
10) Methyl Iodide	4.27	142	47170	8.933	ug/l	99
11) Tert butyl alcohol	5.20	59	13033	50.038	ug/l #	71
12) 1,1-Dichloroethene	4.04	96	34461	9.408	ug/l	94
13) Acrolein	3.89	56	12567	45.862	ug/l	96
14) Allyl chloride	4.66	41	56312	8.647	ug/l	97
15) Acrylonitrile	5.36	53	45484	46.792	ug/l	97
16) Acetone	4.12	43	53387	50.320	ug/l	100
17) Carbon Disulfide	4.38	76	87724	9.076	ug/l	98
18) Methyl Acetate	4.67	43	22747	9.264	ug/l	98
19) Methyl tert-butyl Ether	5.42	73	46443	9.761	ug/l	95
20) Methylene Chloride	4.92	84	53212	9.404	ug/l	99
21) trans-1,2-Dichloroethene	5.42	96	35694	8.998	ug/l	90
22) Diisopropyl ether	6.31	45	121073	9.165	ug/l	98
23) Vinyl Acetate	6.25	43	382568	46.004	ug/l	98
24) 1,1-Dichloroethane	6.21	63	74017	9.373	ug/l	97
25) 2-Butanone	7.17	43	68959	49.480	ug/l	95
26) 2,2-Dichloropropane	7.17	77	41325	9.459	ug/l	98
27) cis-1,2-Dichloroethene	7.17	96	38993	8.938	ug/l	99
28) Bromochloromethane	7.51	49	31964	9.904	ug/l	94
29) Tetrahydrofuran	7.53	42	42054	47.622	ug/l	97
30) Chloroform	7.67	83	72775	9.197	ug/l	98
31) Cyclohexane	7.95	56	71503	9.669	ug/l #	94
32) 1,1,1-Trichloroethane	7.87	97	57019	9.179	ug/l	98
36) 1,1-Dichloropropene	8.08	75	56312	9.076	ug/l	100
37) Ethyl Acetate	7.26	43	31082	9.859	ug/l	96
38) Carbon Tetrachloride	8.06	117	54823	9.054	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW041719\
 Data File : VW010020.D
 Acq On : 17 Apr 2019 17:07
 Operator : SY/VA
 Sample : K2241-02
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

Manual Integrations
 APPROVED

MMDadoda
 4/18/2019 11:40:38 AM

Quant Time: Apr 18 02:53:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W041719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 18 02:23:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	60016	8.956	ug/l	92
40) Benzene	8.32	78	154095	9.084	ug/l	99
41) Methacrylonitrile	7.48	41	17027	9.476	ug/l	93
42) 1,2-Dichloroethane	8.40	62	53820	9.232	ug/l	99
43) Isopropyl Acetate	8.42	43	57287	9.697	ug/l	98
44) Trichloroethene	9.09	130	38448	8.923	ug/l	92
45) 1,2-Dichloropropane	9.37	63	40702	9.128	ug/l	98
46) Dibromomethane	9.46	93	21777	9.423	ug/l	98
47) Bromodichloromethane	9.65	83	52830	8.855	ug/l	98
48) Methyl methacrylate	9.44	41	25188	8.759	ug/l	94
49) 1,4-Dioxane	9.45	88	6344	179.649	ug/l #	90
51) 4-Methyl-2-Pentanone	10.21	43	148333	47.938	ug/l	100
52) Toluene	10.38	92	97096	9.188	ug/l	99
53) t-1,3-Dichloropropene	10.60	75	53176	8.990	ug/l	98
54) cis-1,3-Dichloropropene	10.07	75	58547	8.668	ug/l	97
55) 1,1,2-Trichloroethane	10.79	97	29083	9.016	ug/l	95
56) Ethyl methacrylate	10.65	69	34717	9.983	ug/l	99
57) 1,3-Dichloropropane	10.93	76	52604	9.098	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.92	63	104171	54.045	ug/l	98
59) 2-Hexanone	10.97	43	103690	48.140	ug/l	98
60) Dibromochloromethane	11.13	129	32638	8.754	ug/l	100
61) 1,2-Dibromoethane	11.24	107	28314	9.227	ug/l	99
64) Tetrachloroethene	10.87	164	31528	8.873	ug/l	94
65) Chlorobenzene	11.66	112	104874	9.361	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.73	131	36473	9.104	ug/l	96
67) Ethyl Benzene	11.73	91	176636	8.837	ug/l	99
68) m/p-Xylenes	11.84	106	133282	17.839	ug/l	100
69) o-Xylene	12.16	106	61700	9.069	ug/l	97
70) Styrene	12.18	104	98705	8.415	ug/l	98
71) Bromoform	12.35	173	19676	9.288	ug/l #	97
73) Isopropylbenzene	12.46	105	171173	8.808	ug/l	99
74) N-amyl acetate	12.27	43	47875	8.896	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.71	83	37831	9.853	ug/l	98
76) 1,2,3-Trichloropropane	12.77	75	31415m	11.241	ug/l	
77) Bromobenzene	12.74	156	41542	9.295	ug/l	100
78) n-propylbenzene	12.80	91	219802	9.126	ug/l	100
79) 2-Chlorotoluene	12.89	91	127624	9.213	ug/l	99
80) 1,3,5-Trimethylbenzene	12.94	105	144571	8.774	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.51	75	10231	8.632	ug/l	94
82) 4-Chlorotoluene	12.99	91	133694	9.170	ug/l	100
83) tert-Butylbenzene	13.21	119	122212	8.956	ug/l	96
84) 1,2,4-Trimethylbenzene	13.26	105	148524	8.890	ug/l	99
85) sec-Butylbenzene	13.38	105	185358	9.090	ug/l	100
86) p-Isopropyltoluene	13.50	119	158176	8.801	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	86223	9.543	ug/l	98
88) 1,4-Dichlorobenzene	13.58	146	85431	9.473	ug/l	95
89) n-Butylbenzene	13.83	91	154997	8.705	ug/l	99
90) Hexachloroethane	14.10	117	30725	8.925	ug/l	93
91) 1,2-Dichlorobenzene	13.87	146	75401	9.308	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.49	75	7027	10.227	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW041719\
Data File : VW010020.D
Acq On : 17 Apr 2019 17:07
Operator : SY/VA
Sample : K2241-02
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2019

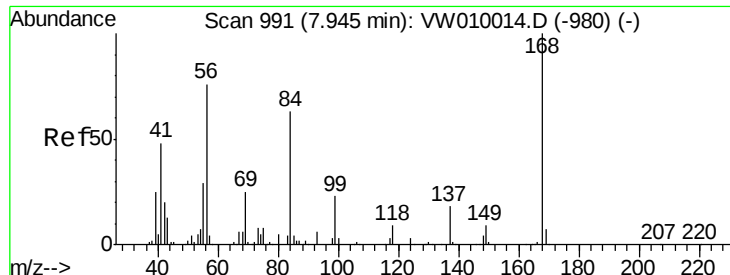
Manual Integrations
APPROVED

MMDadoda
4/18/2019 11:40:38 AM

Quant Time: Apr 18 02:53:35 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W041719S.M
Quant Title : SW846 8260
QLast Update : Thu Apr 18 02:23:40 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	47968	8.975	ug/l	98
94) Hexachlorobutadiene	15.24	225	29661	9.139	ug/l	98
95) Naphthalene	15.37	128	84197	10.156	ug/l	99
96) 1,2,3-Trichlorobenzene	15.56	180	43094	9.294	ug/l	100

(#) = 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: VW010020.D

Acq: 17 Apr 2019 17:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:168 Resp: 370541

Ion Ratio Lower Upper

168 100

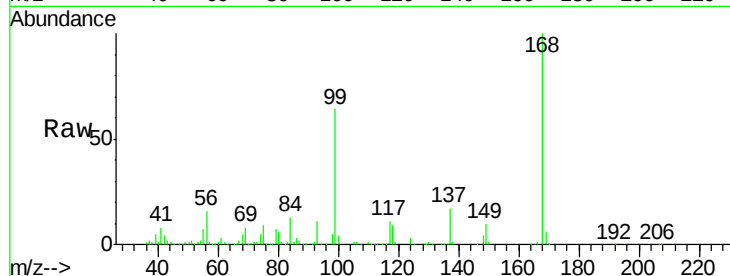
99 63.8 48.4 72.6

Manual Integrations

APPROVED

MMDadoda

4/18/2019 11:40:38 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

150000

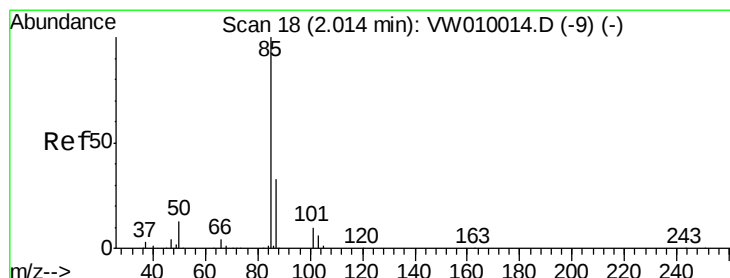
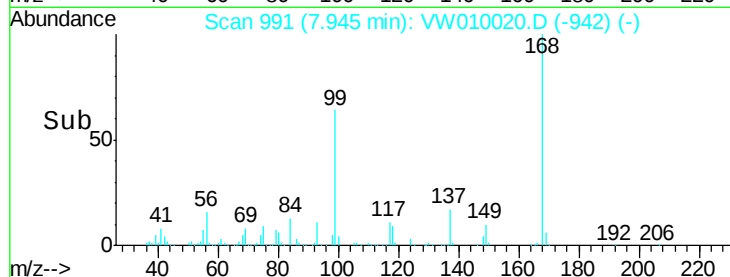
100000

50000

0

7.85 7.90 7.95 8.00 8.05

Time-->



#2

Dichlorodifluoromethane

Concen: 9.101 ug/l

RT: 2.01 min Scan# 18

Delta R.T. -0.00 min

Lab File: VW010020.D

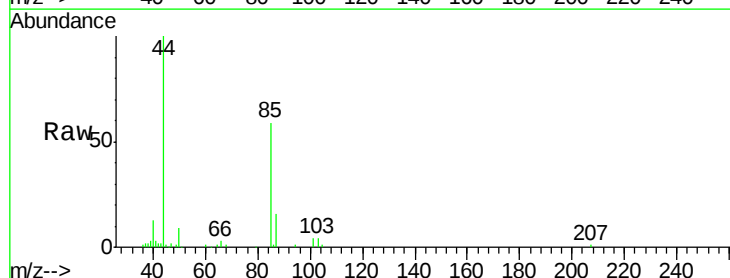
Acq: 17 Apr 2019 17:07

Tgt Ion: 85 Resp: 25713

Ion Ratio Lower Upper

85 100

87 27.1 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

10000

8000

6000

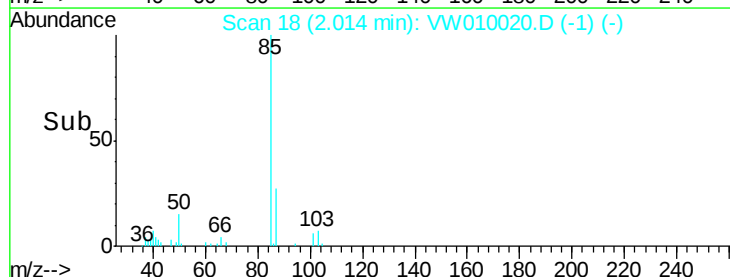
4000

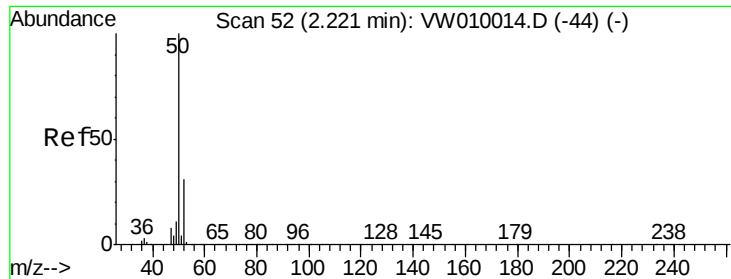
2000

0

1.90 2.00 2.10

Time-->





#3

Chloromethane

Concen: 8.868 ug/l

RT: 2.21 min Scan# 51

Delta R.T. -0.01 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion: 50 Resp: 25056

Ion Ratio Lower Upper

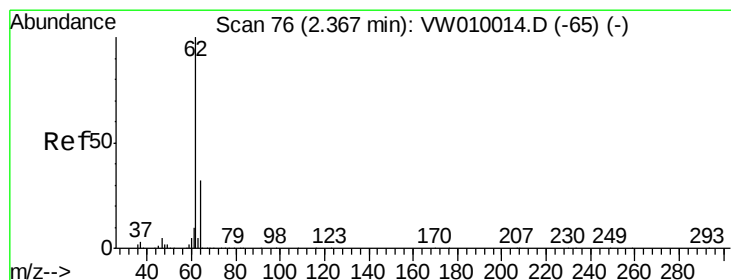
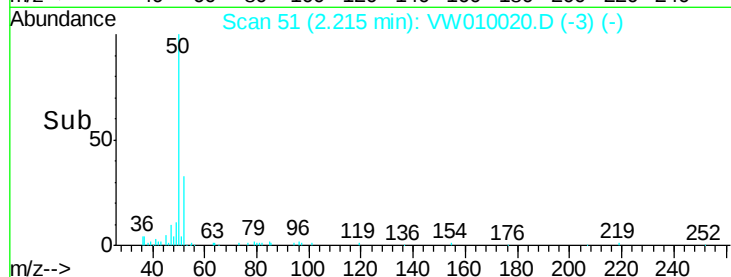
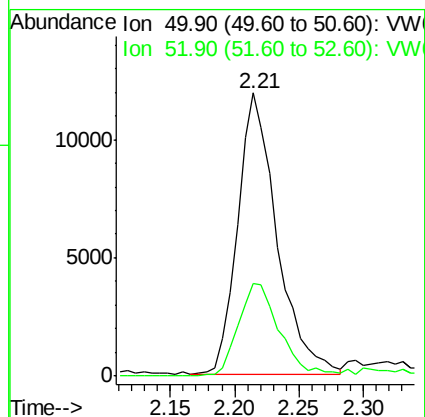
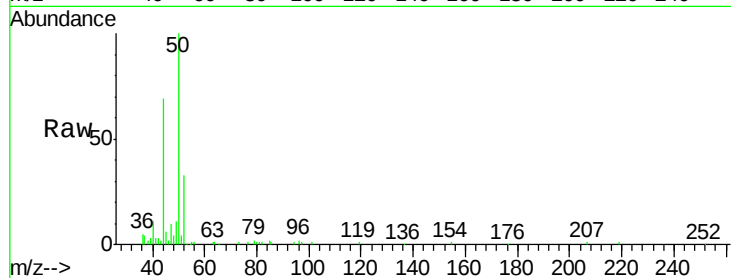
50 100

52 32.9 25.0 37.6

Manual Integrations
APPROVED

MMDadoda

4/18/2019 11:40:38 AM



#4

Vinyl Chloride

Concen: 9.204 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW010020.D

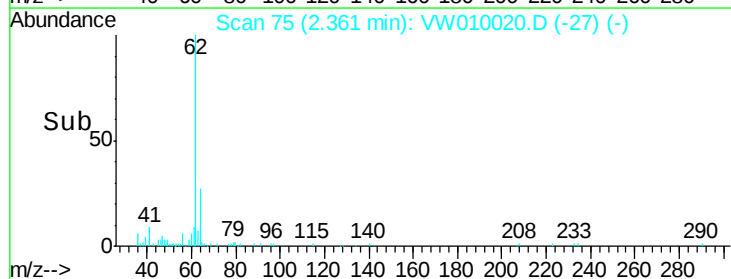
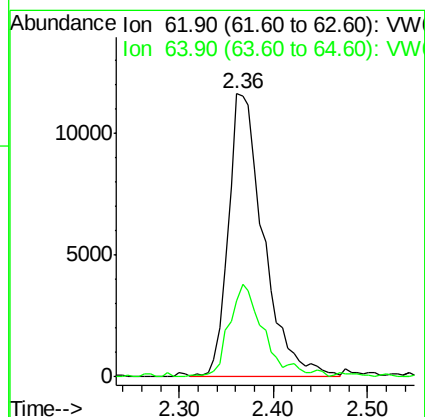
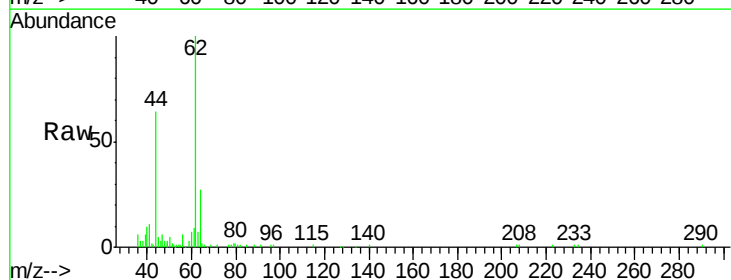
Acq: 17 Apr 2019 17:07

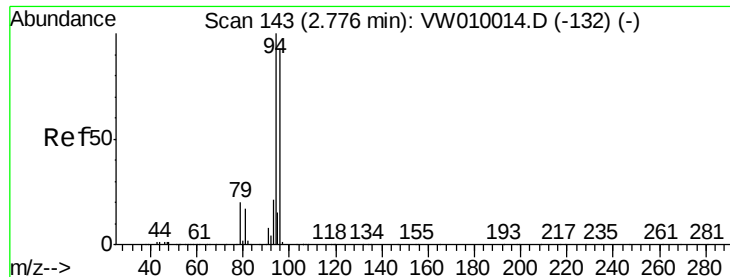
Tgt Ion: 62 Resp: 30229

Ion Ratio Lower Upper

62 100

64 26.4 25.9 38.9





#5

Bromomethane

Concen: 9.410 ug/l

RT: 2.78 min Scan# 143

Delta R.T. -0.00 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion: 94 Resp: 20768

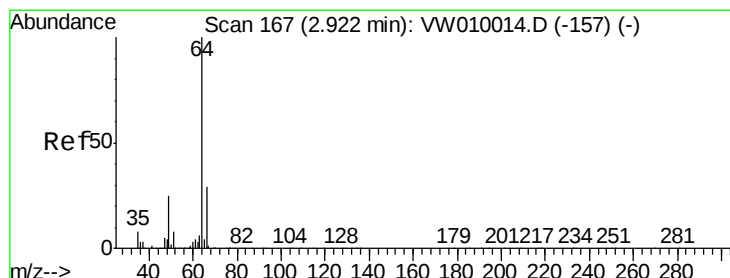
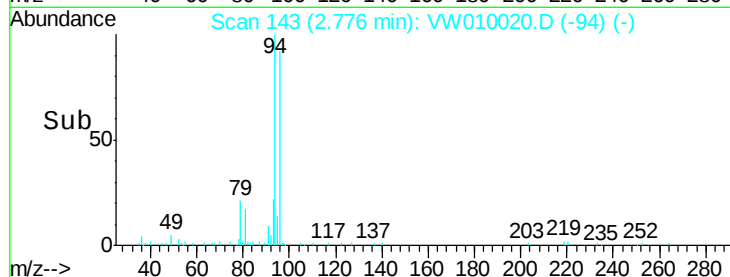
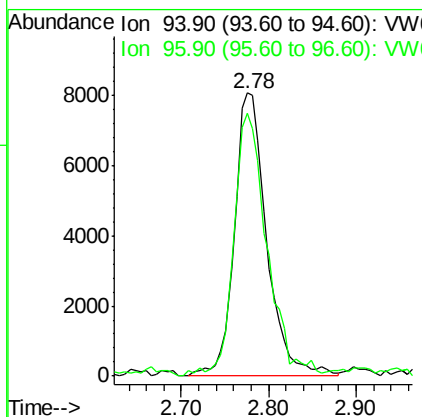
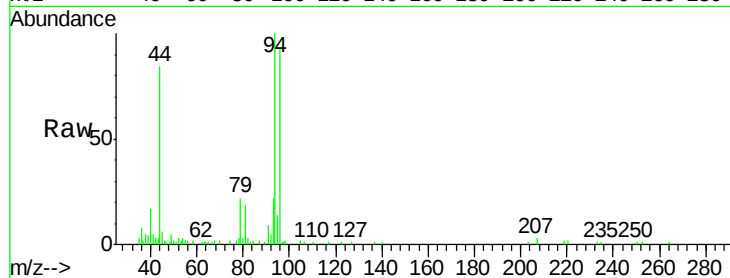
Ion Ratio Lower Upper

94 100

96 90.9 74.2 111.2

Manual Integrations
APPROVED

MMDadoda
4/18/2019 11:40:38 AM



#6

Chloroethane

Concen: 9.262 ug/l

RT: 2.93 min Scan# 168

Delta R.T. 0.01 min

Lab File: VW010020.D

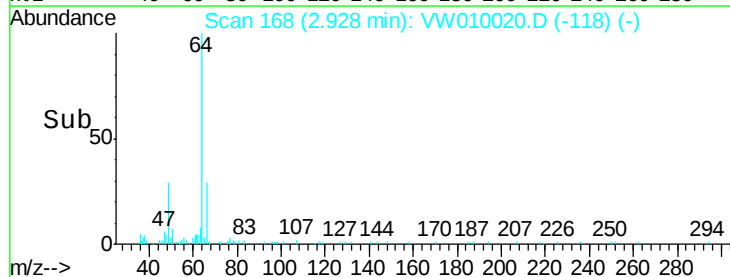
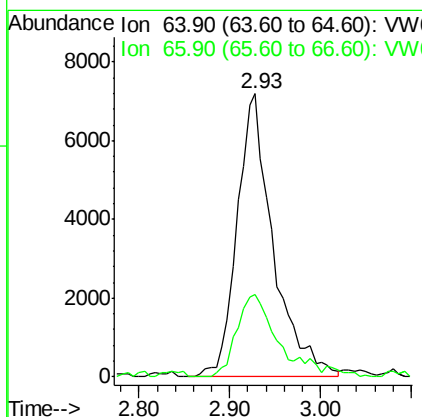
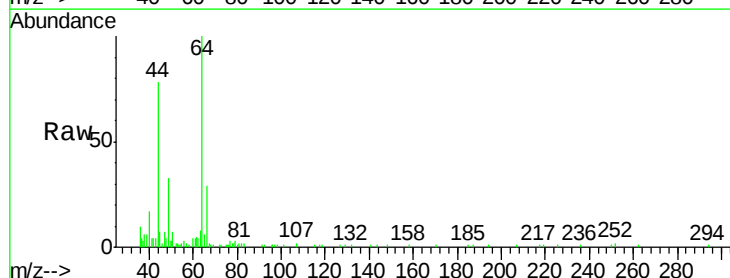
Acq: 17 Apr 2019 17:07

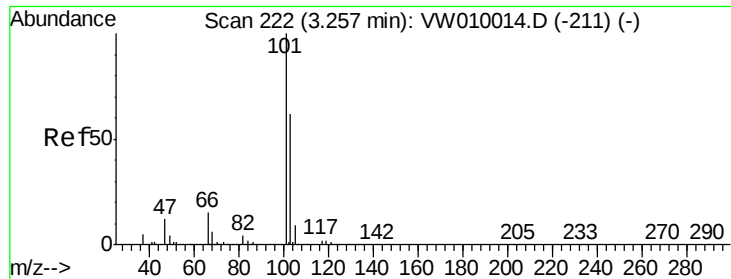
Tgt Ion: 64 Resp: 19875

Ion Ratio Lower Upper

64 100

66 29.0 23.4 35.0





#7

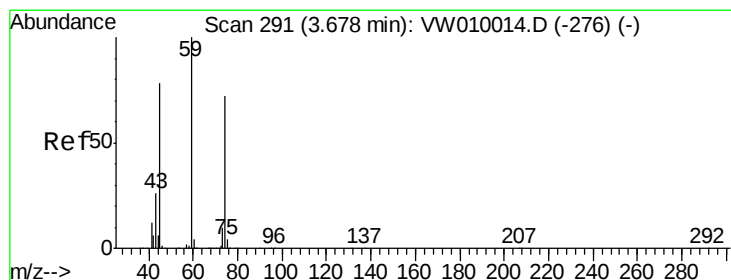
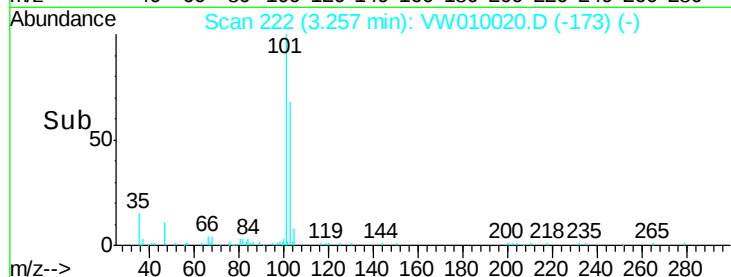
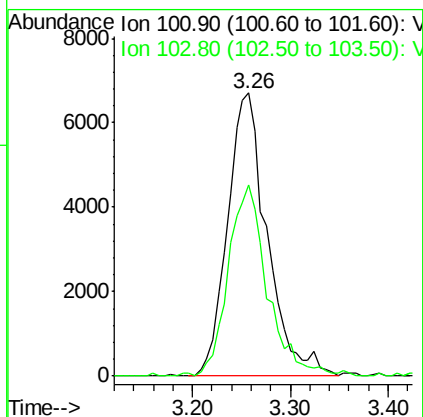
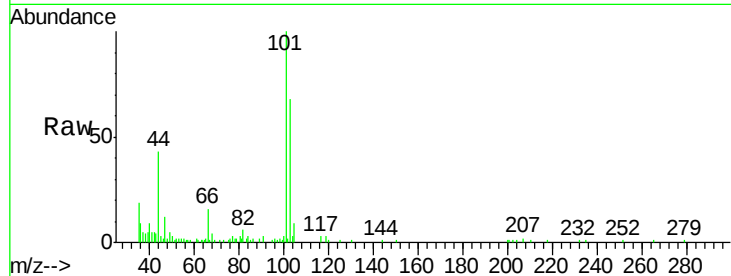
Trichlorofluoromethane
Concen: 8.280 ug/l
RT: 3.26 min Scan# 222
Delta R.T. -0.00 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.5	49.8	74.6

Manual Integrations
APPROVED

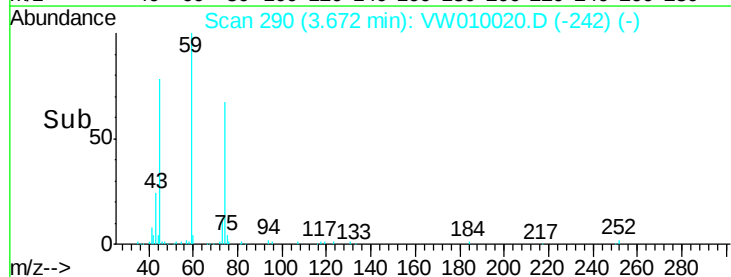
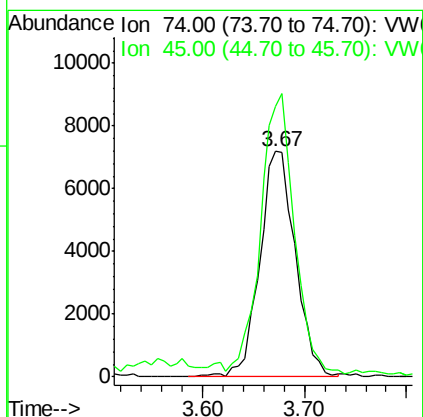
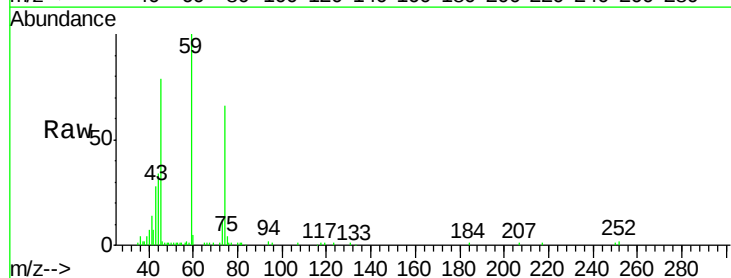
MMDadoda
4/18/2019 11:40:38 AM

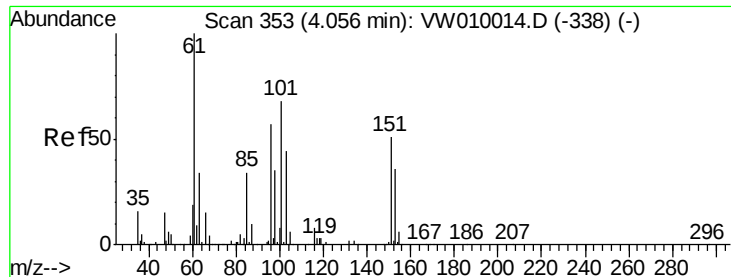


#8

Diethyl Ether
Concen: 9.238 ug/l
RT: 3.67 min Scan# 290
Delta R.T. -0.01 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Tgt Ion	Ratio	Lower	Upper
74	100		
45	118.0	56.0	168.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 9.638 ug/l

RT: 4.05 min Scan# 352

Delta R.T. -0.01 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

Instrument :

MSVOA_W

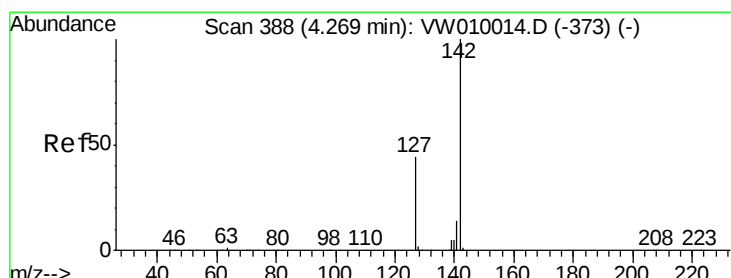
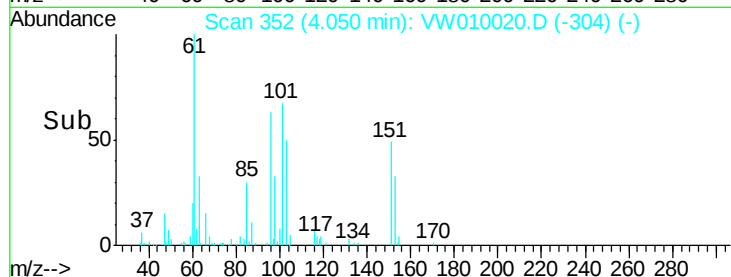
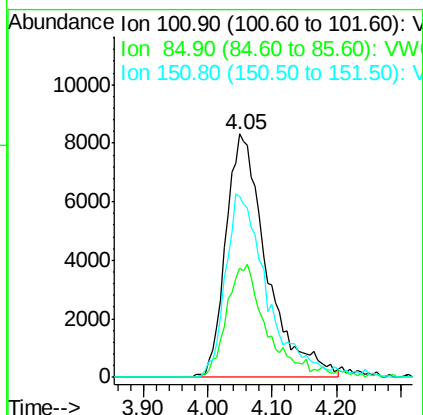
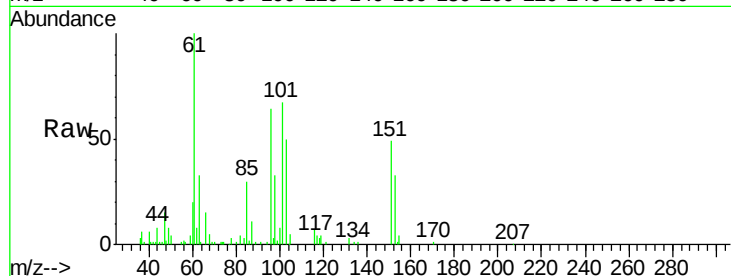
ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:	101	Resp:	36827
Ion Ratio	Lower	Upper	
101	100		
85	44.8	36.3	54.5
151	75.9	60.2	90.2

Manual Integrations
APPROVED

MMDadoda
4/18/2019 11:40:38 AM



#10

Methyl Iodide

Concen: 8.933 ug/l

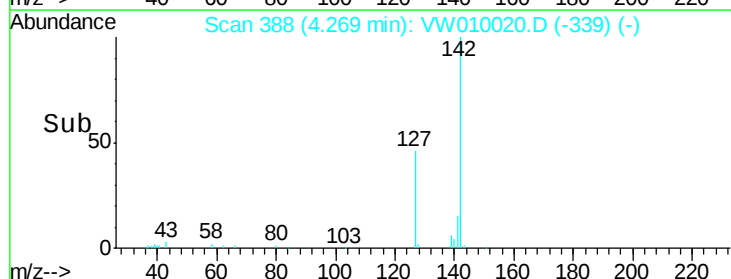
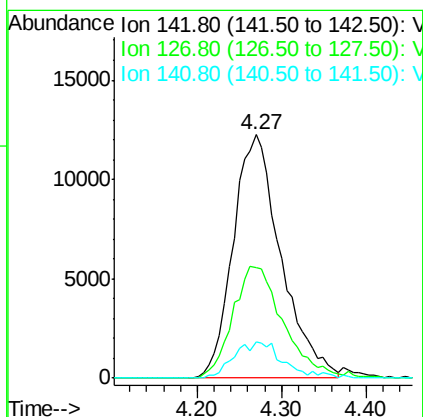
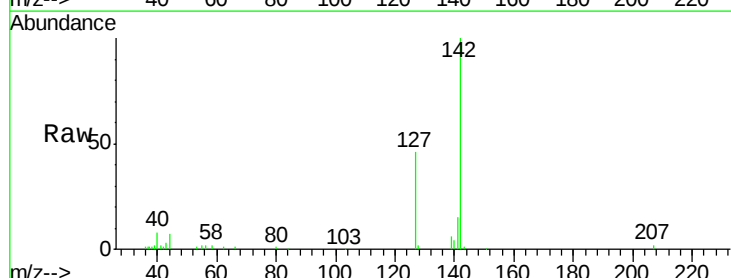
RT: 4.27 min Scan# 388

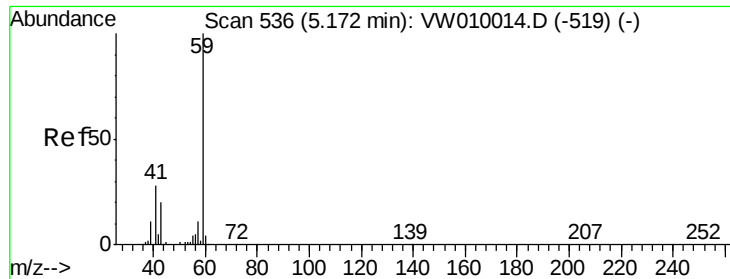
Delta R.T. -0.00 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

Tgt Ion:	142	Resp:	47170
Ion Ratio	Lower	Upper	
142	100		
127	48.5	38.1	57.1
141	15.4	12.2	18.2





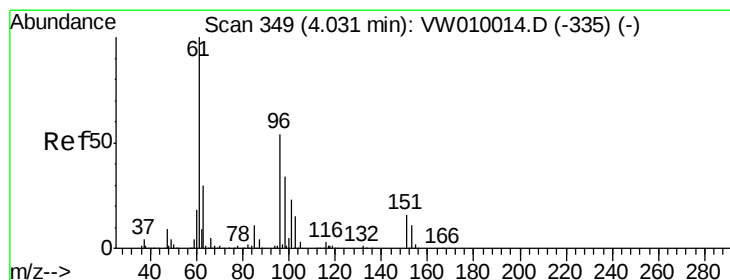
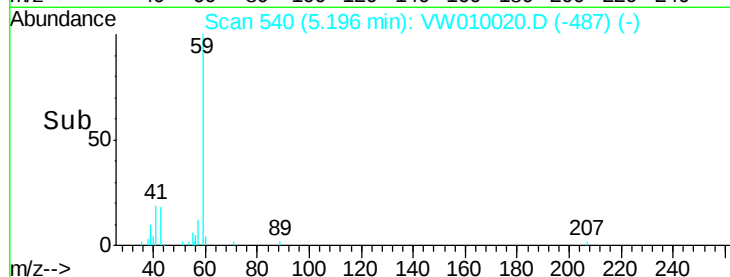
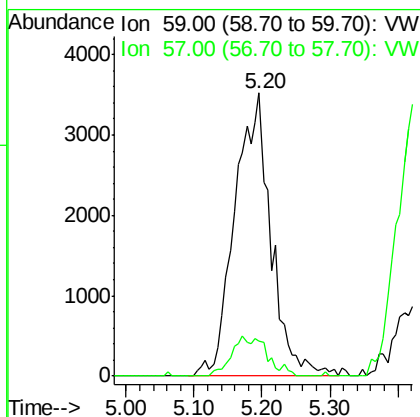
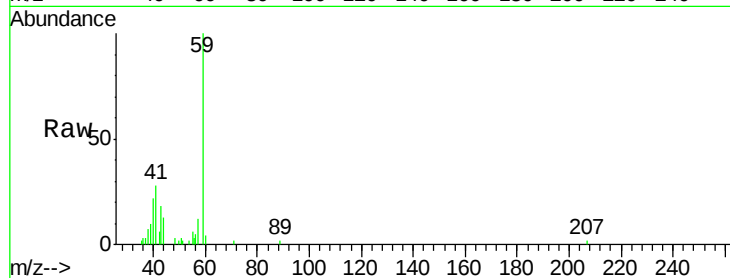
#11
Tert butyl alcohol
Concen: 50.038 ug/l
RT: 5.20 min Scan# 540
Delta R.T. 0.02 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	9.0	13.4#

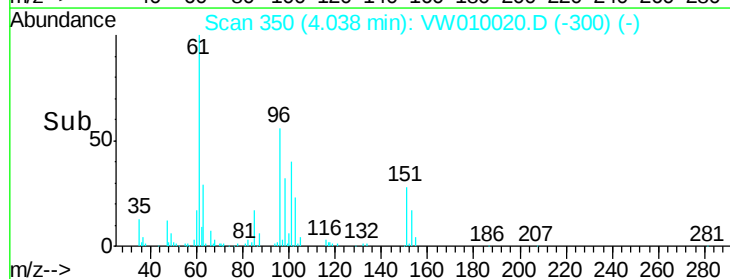
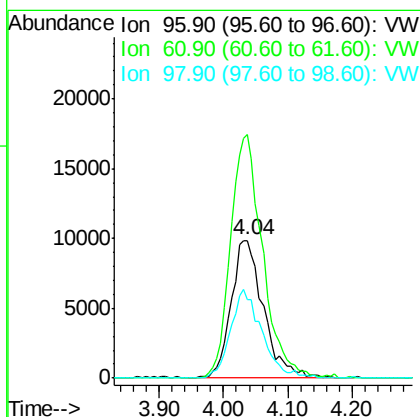
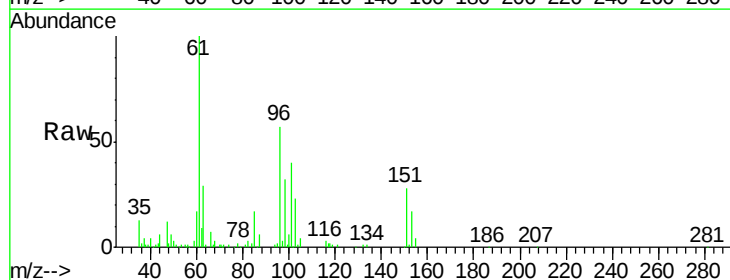
Manual Integrations
APPROVED

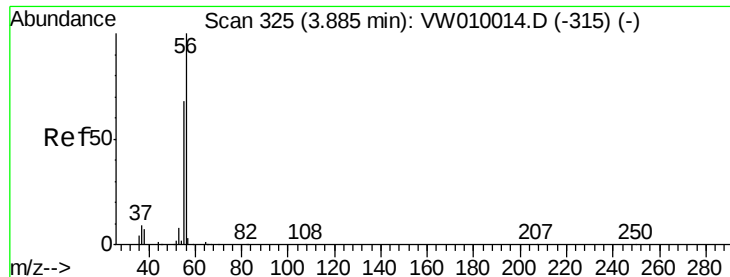
MMDadoda
4/18/2019 11:40:38 AM



#12
1,1-Dichloroethene
Concen: 9.408 ug/l
RT: 4.04 min Scan# 350
Delta R.T. 0.01 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Tgt Ion	Ratio	Lower	Upper
96	100		
61	176.2	147.4	221.2
98	57.0	49.7	74.5





#13

Acrolein

Concen: 45.862 ug/l

RT: 3.89 min Scan# 326

Delta R.T. 0.01 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion: 56 Resp: 12567

Ion Ratio Lower Upper

56 100

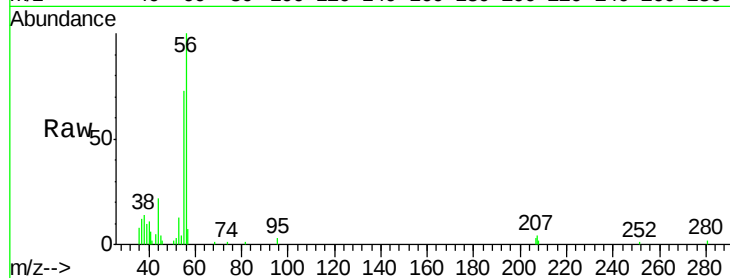
55 71.1 54.2 81.2

Manual Integrations

APPROVED

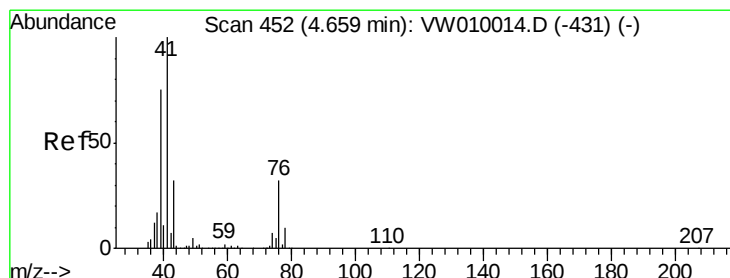
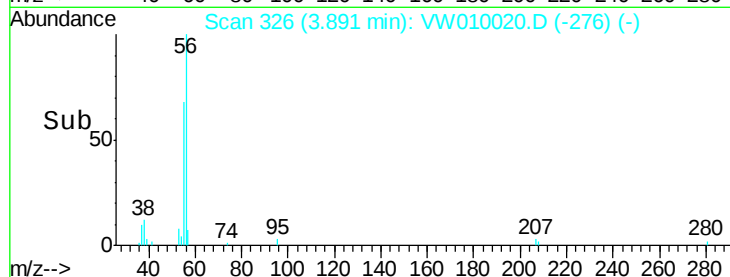
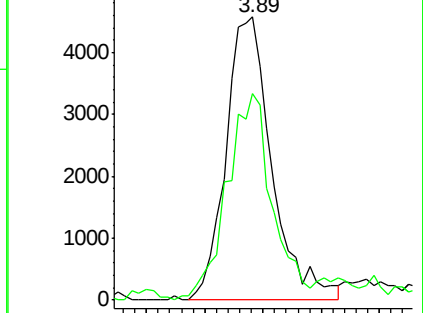
MMDadoda

4/18/2019 11:40:38 AM



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#14

Allyl chloride

Concen: 8.647 ug/l

RT: 4.66 min Scan# 452

Delta R.T. -0.00 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

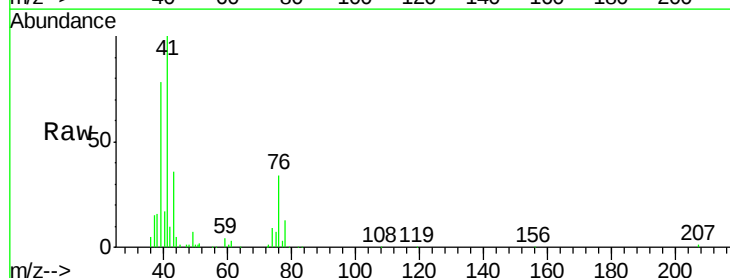
Tgt Ion: 41 Resp: 56312

Ion Ratio Lower Upper

41 100

39 78.3 60.2 90.4

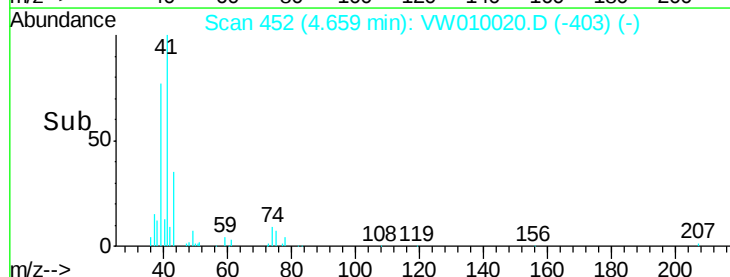
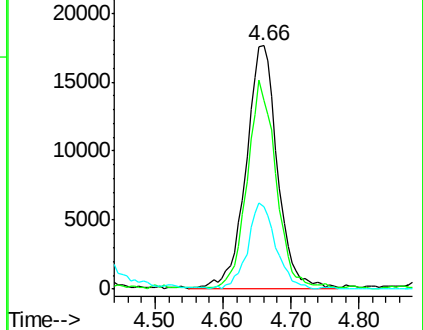
76 32.2 25.0 37.6

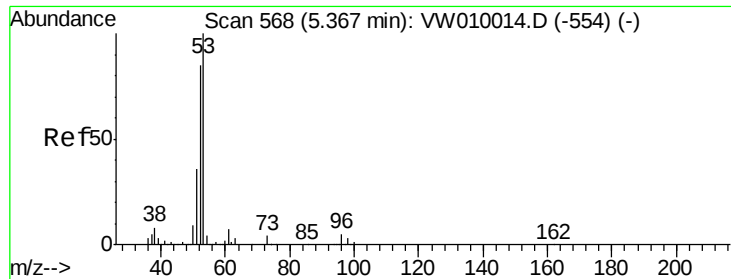


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 75.90 (75.60 to 76.60): VW





#15

Acrylonitrile

Concen: 46.792 ug/l

RT: 5.36 min Scan# 567

Delta R.T. -0.01 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

Instrument :

MSVOA_W

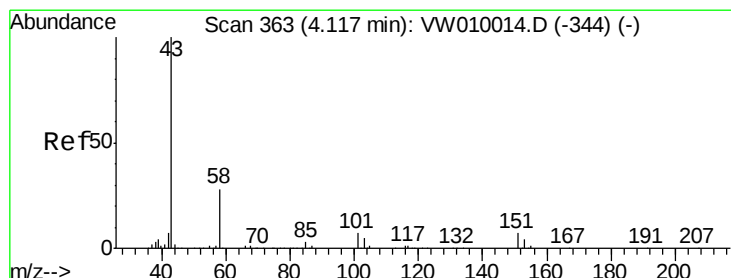
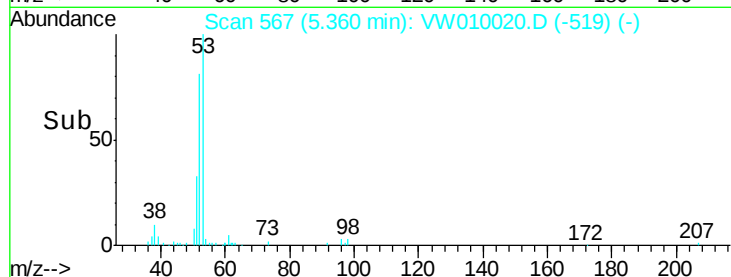
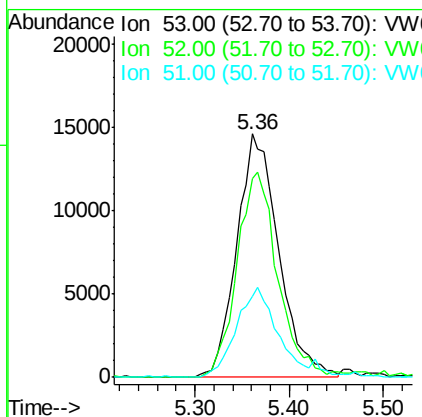
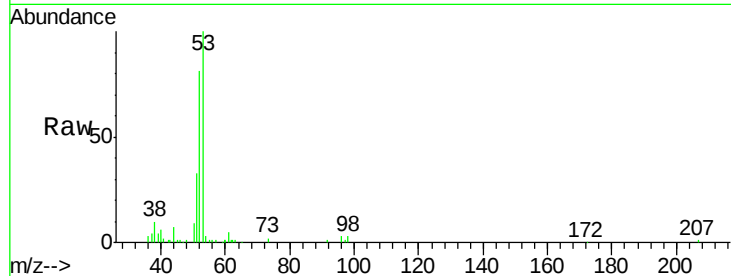
ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:	53	Resp:	45484
Ion	Ratio	Lower	Upper
53	100		
52	80.6	66.6	100.0
51	35.9	30.3	45.5

Manual Integrations
APPROVED

MMDadoda
4/18/2019 11:40:38 AM



#16

Acetone

Concen: 50.320 ug/l

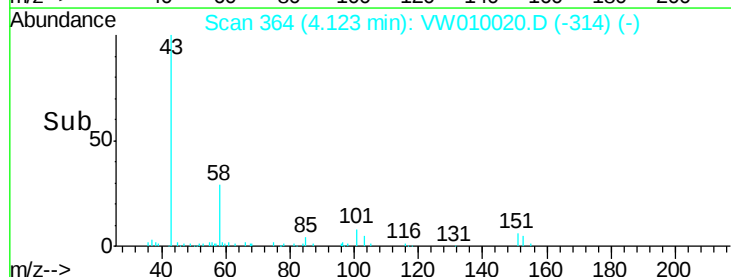
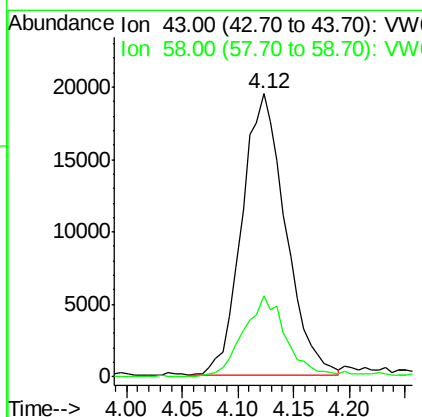
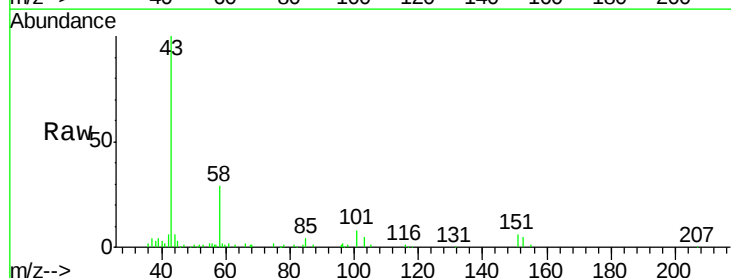
RT: 4.12 min Scan# 364

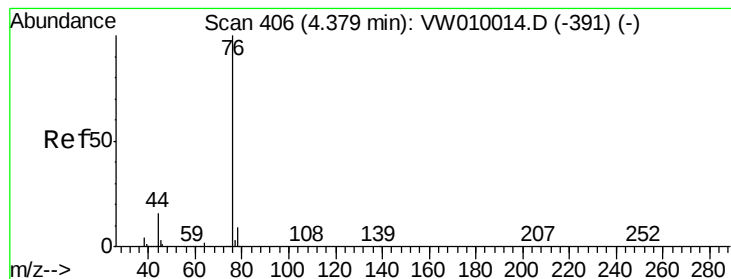
Delta R.T. 0.01 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

Tgt Ion:	43	Resp:	53387
Ion	Ratio	Lower	Upper
43	100		
58	28.7	22.7	34.1





#17

Carbon Disulfide

Concen: 9.076 ug/l

RT: 4.38 min Scan# 406

Delta R.T. 0.00 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion: 76 Resp: 87724

Ion Ratio Lower Upper

76 100

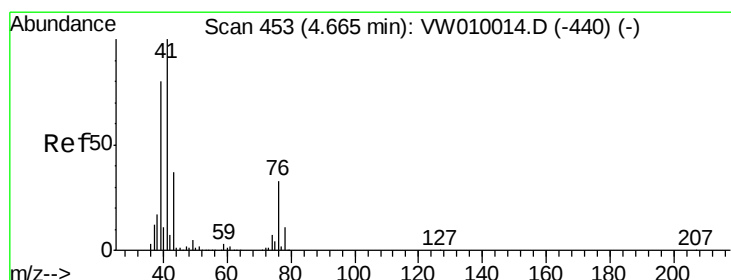
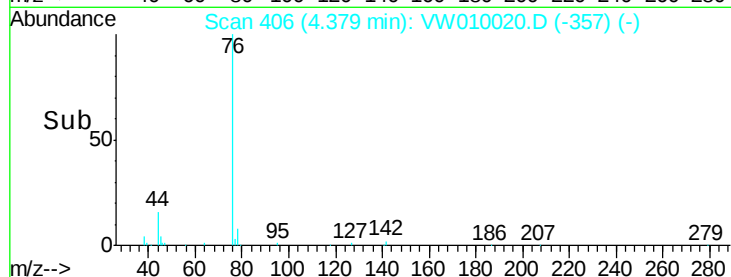
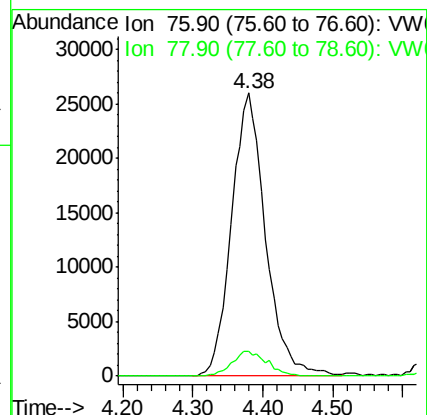
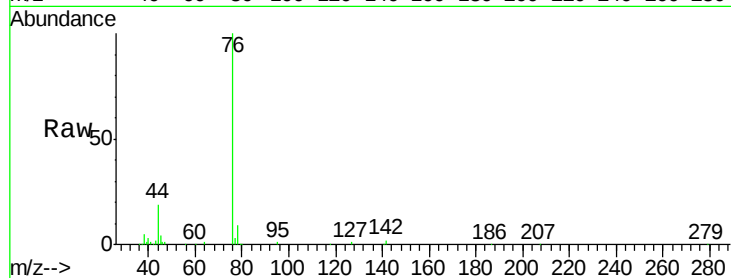
78 8.7 7.4 11.2

Manual Integrations

APPROVED

MMDadoda

4/18/2019 11:40:38 AM



#18

Methyl Acetate

Concen: 9.264 ug/l

RT: 4.67 min Scan# 454

Delta R.T. 0.01 min

Lab File: VW010020.D

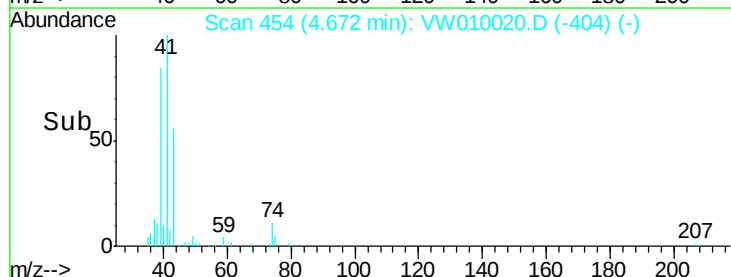
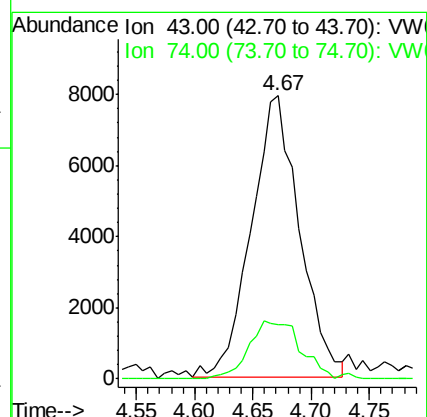
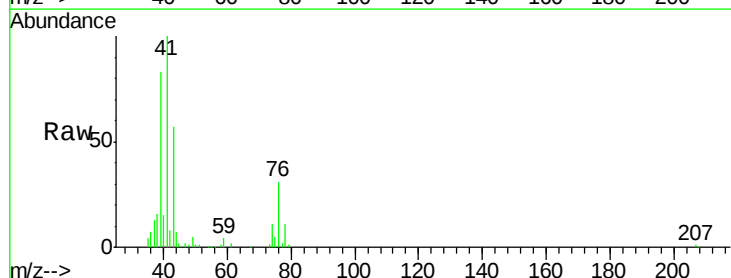
Acq: 17 Apr 2019 17:07

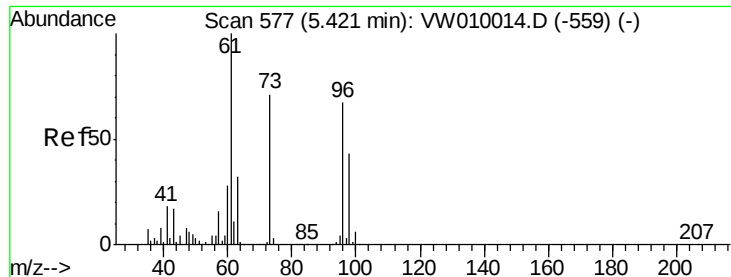
Tgt Ion: 43 Resp: 22747

Ion Ratio Lower Upper

43 100

74 22.1 16.8 25.2





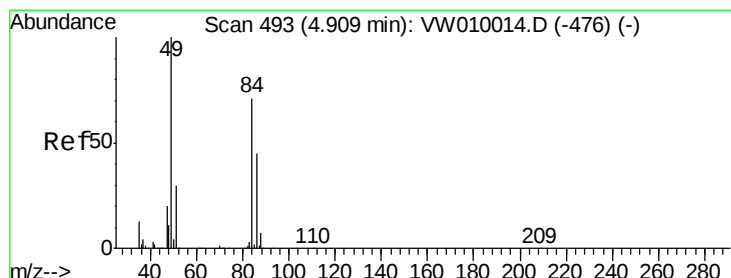
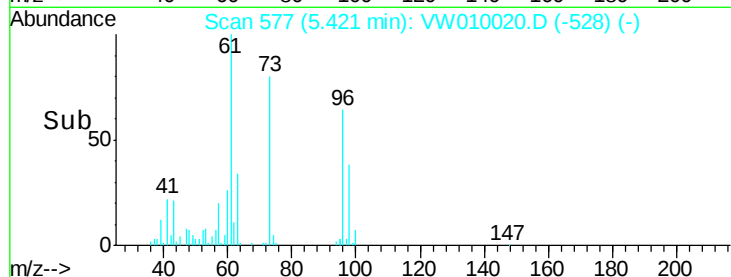
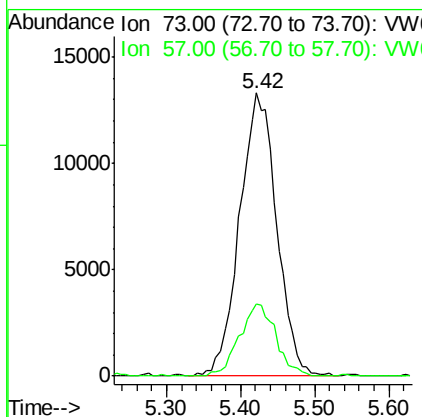
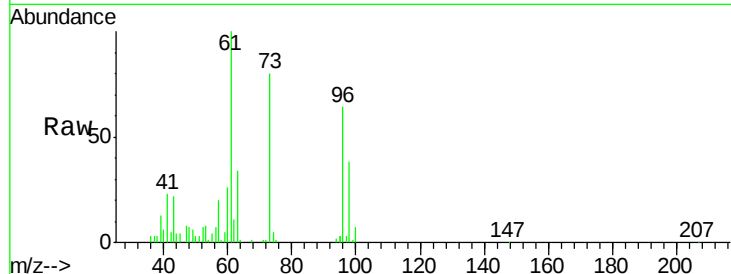
#19
Methyl tert-butyl Ether
Concen: 9.761 ug/l
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion: 73 Resp: 46443
Ion Ratio Lower Upper
73 100
57 25.4 18.5 27.7

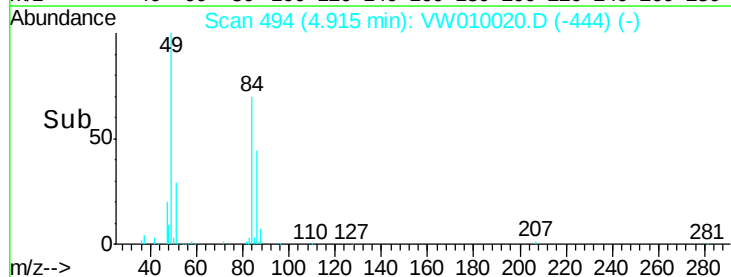
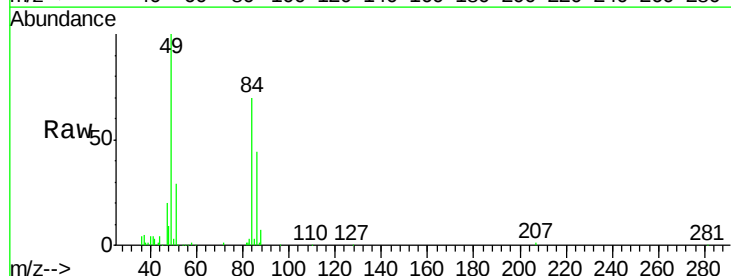
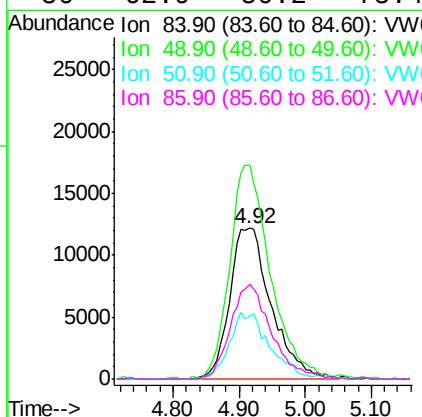
Manual Integrations
APPROVED

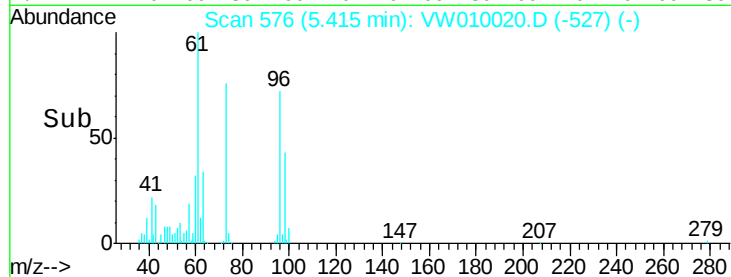
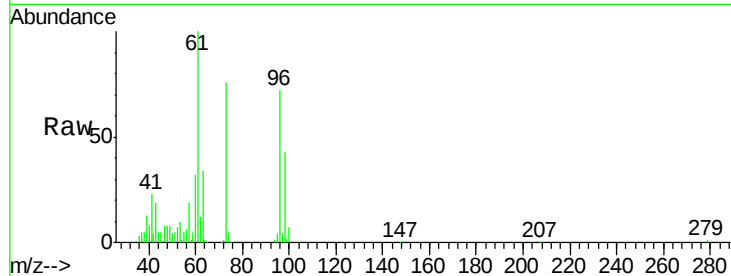
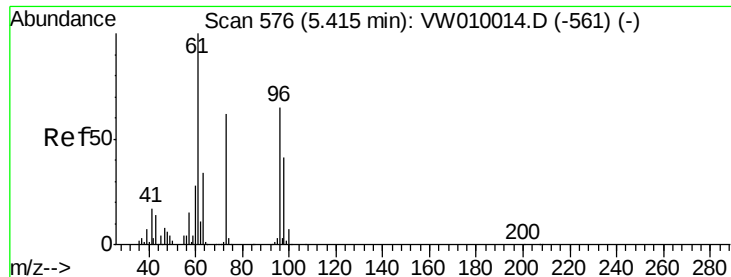
MMDadoda
4/18/2019 11:40:38 AM



#20
Methylene Chloride
Concen: 9.404 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Tgt Ion: 84 Resp: 53212
Ion Ratio Lower Upper
84 100
49 142.0 112.3 168.5
51 41.6 33.9 50.9
86 62.9 50.2 75.4





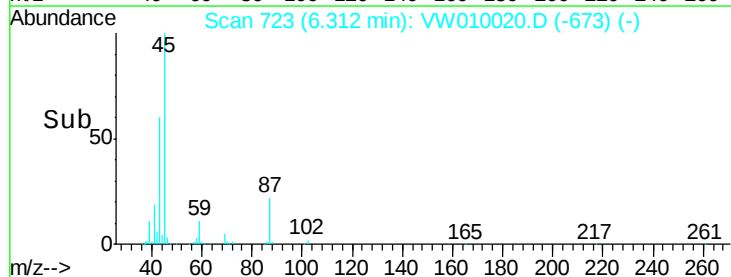
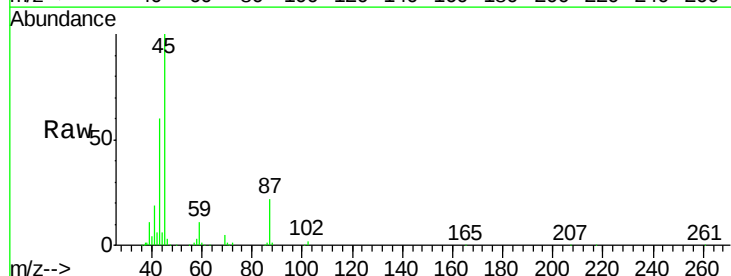
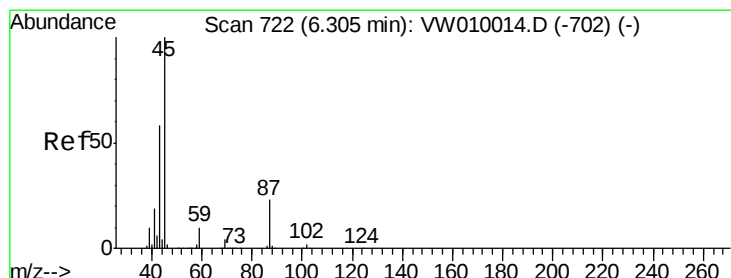
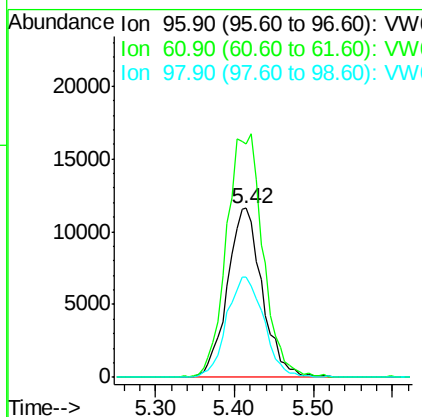
#21
trans-1,2-Dichloroethene
Concen: 8.998 ug/l
RT: 5.42 min Scan# 576
Delta R.T. -0.00 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Tot Ion	Ratio	Lower	Upper
96	100		
61	137.9	122.3	183.5
98	59.3	50.5	75.7

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2019

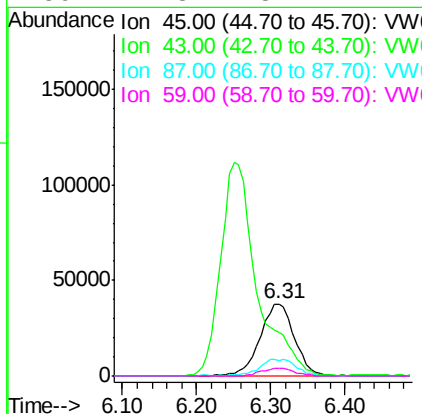
Manual Integrations
APPROVED

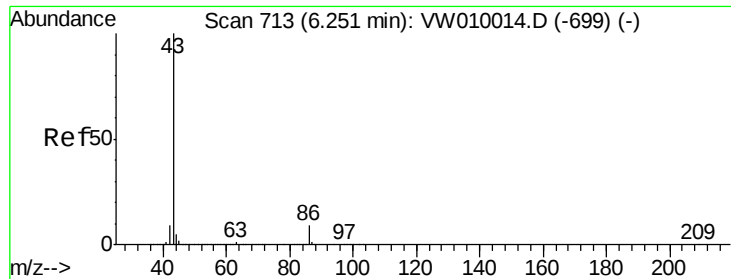
MMDadoda
4/18/2019 11:40:38 AM



#22
Diisopropyl ether
Concen: 9.165 ug/l
RT: 6.31 min Scan# 723
Delta R.T. 0.01 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Tgt Ion	Ratio	Lower	Upper
45	100		
43	59.0	46.1	69.1
87	22.0	18.3	27.5
59	11.3	8.2	12.4





#23

Vinyl Acetate

Concen: 46.004 ug/l

RT: 6.25 min Scan# 713

Delta R.T. -0.00 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion: 43 Resp: 382568

Ion Ratio Lower Upper

43 100

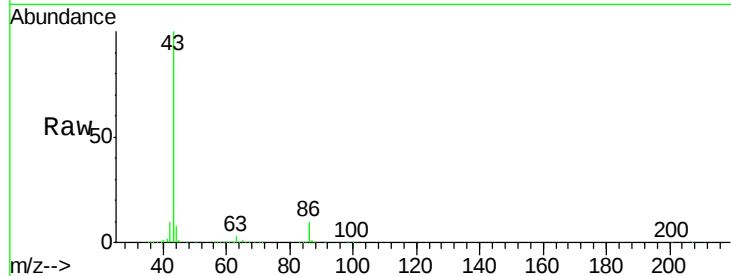
86 9.5 7.0 10.6

Manual Integrations

APPROVED

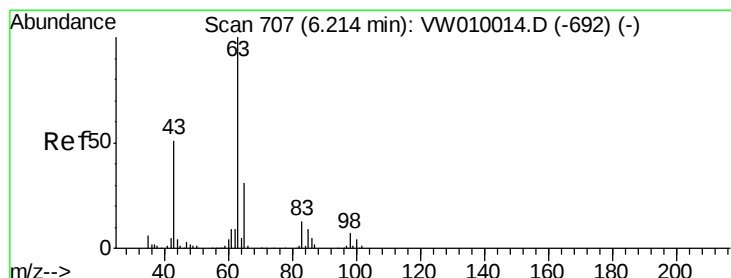
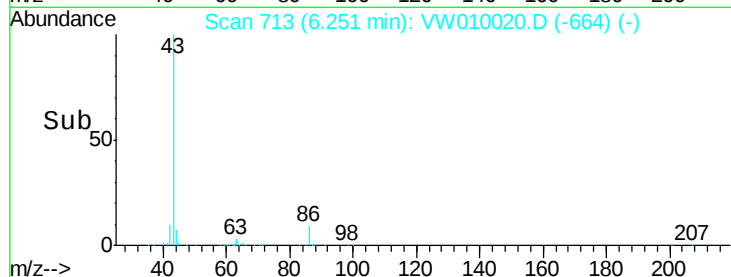
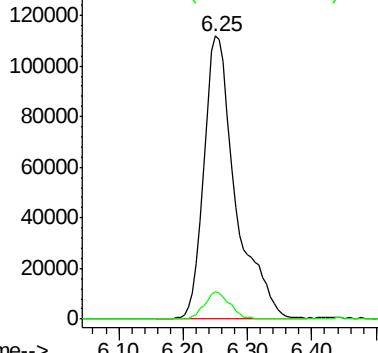
MMDadoda

4/18/2019 11:40:38 AM



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW



#24

1,1-Dichloroethane

Concen: 9.373 ug/l

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

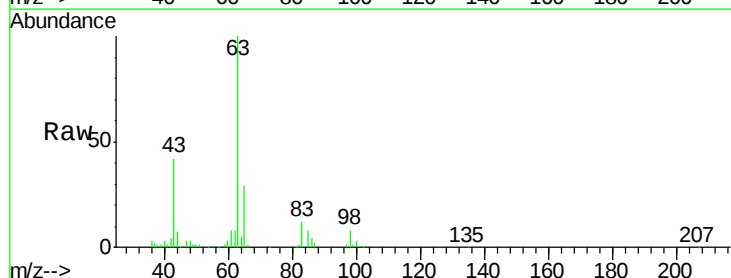
Tgt Ion: 63 Resp: 74017

Ion Ratio Lower Upper

63 100

98 7.6 3.3 9.8

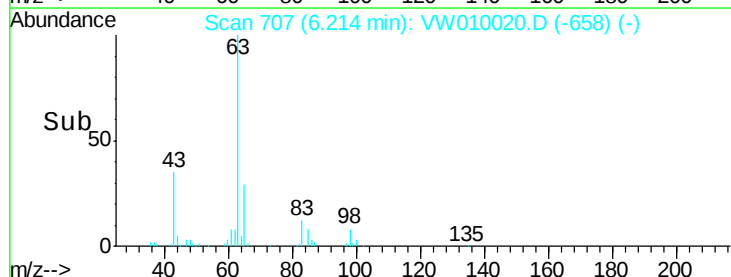
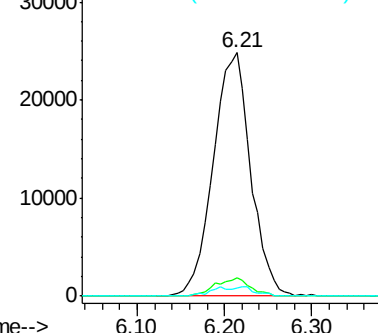
100 3.2 2.0 6.0

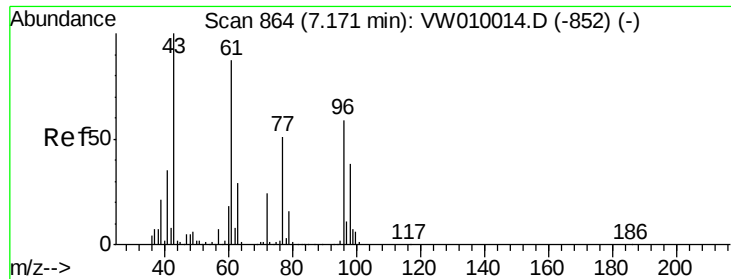


Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW





#25

2-Butanone

Concen: 49.480 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion: 43 Resp: 68959

Ion Ratio Lower Upper

43 100

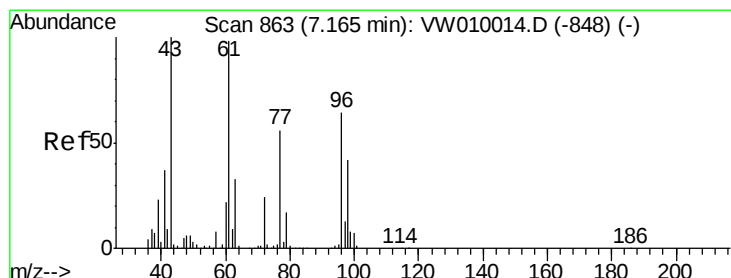
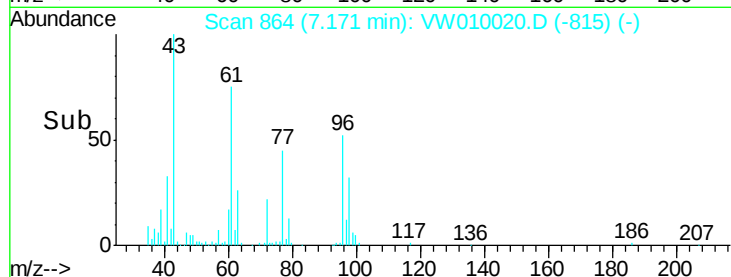
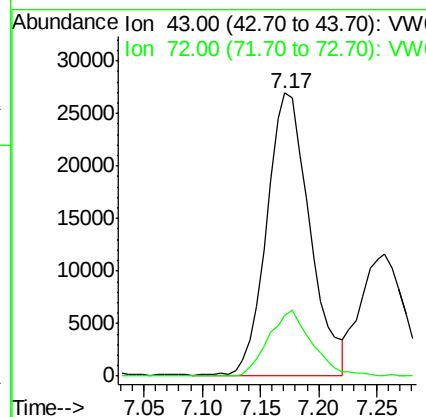
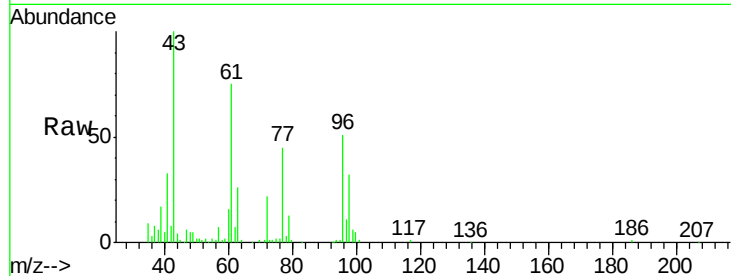
72 21.7 19.1 28.7

Manual Integrations

APPROVED

MMDadoda

4/18/2019 11:40:38 AM



#26

2,2-Dichloropropane

Concen: 9.459 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW010020.D

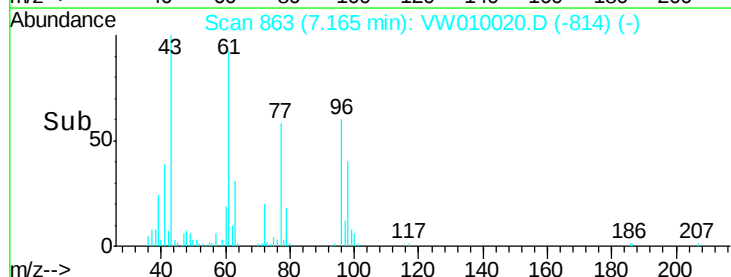
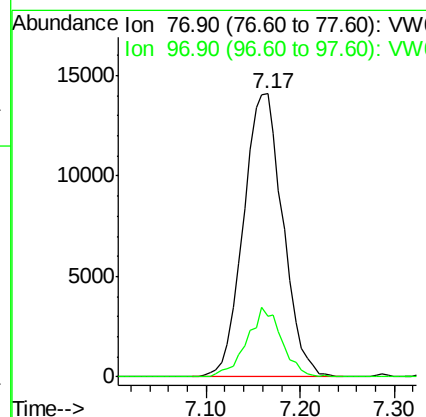
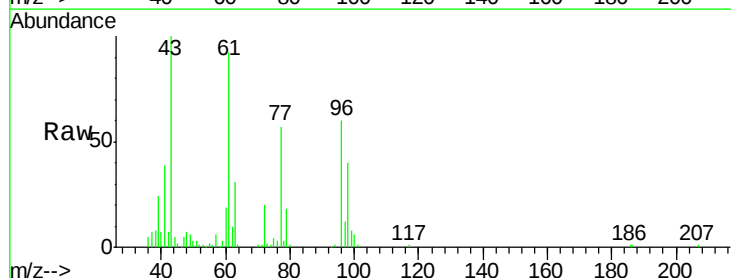
Acq: 17 Apr 2019 17:07

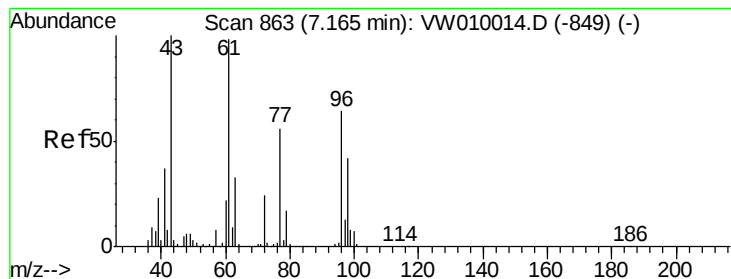
Tgt Ion: 77 Resp: 41325

Ion Ratio Lower Upper

77 100

97 21.6 11.3 33.9





#27

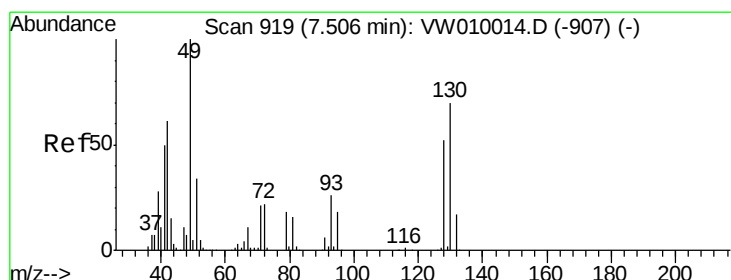
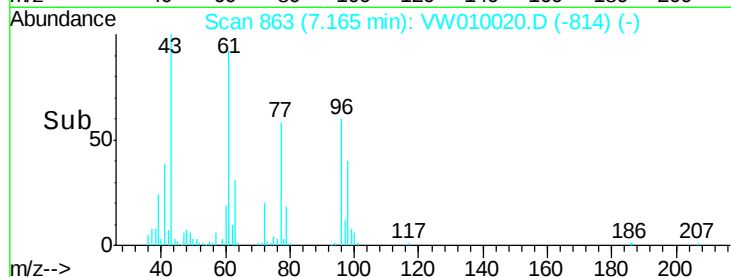
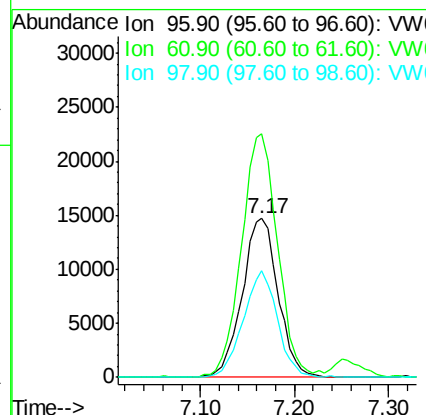
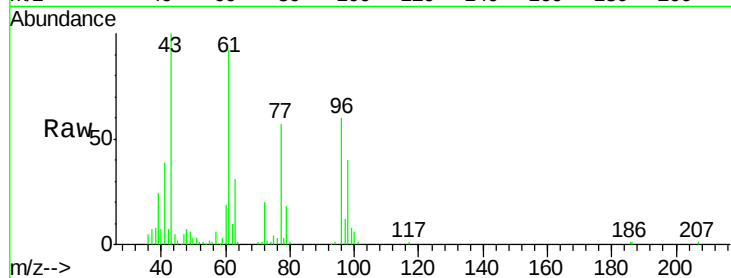
cis-1,2-Dichloroethene
Concen: 8.938 ug/l
RT: 7.17 min Scan# 863
Delta R.T. -0.00 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	153.2	0.0	309.4
98	63.6	0.0	128.6

Manual Integrations
APPROVED

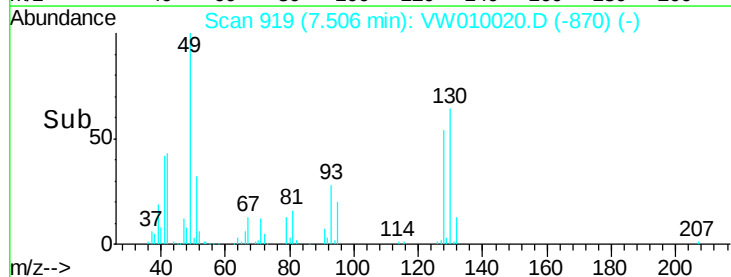
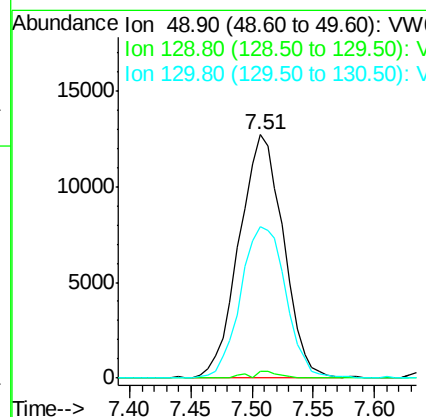
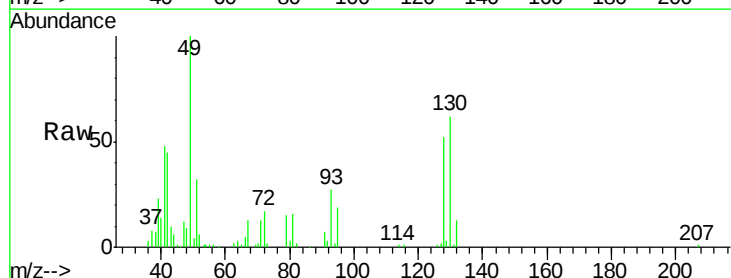
MMDadoda
4/18/2019 11:40:38 AM

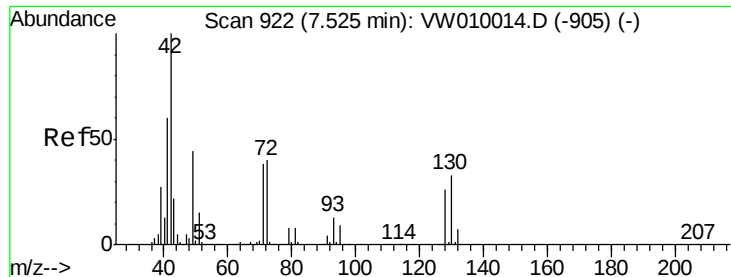


#28

Bromochloromethane
Concen: 9.904 ug/l
RT: 7.51 min Scan# 919
Delta R.T. -0.00 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.8
130	63.6	54.6	82.0





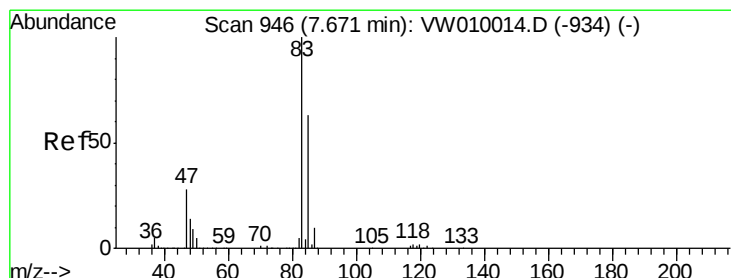
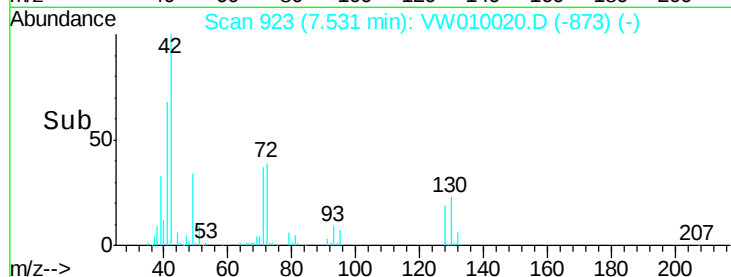
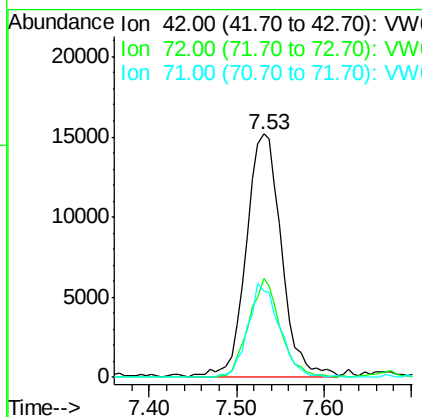
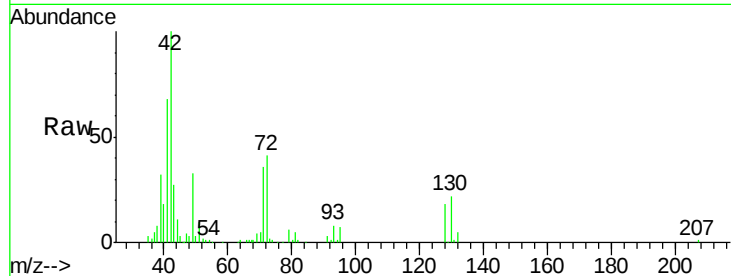
#29
Tetrahydrofuran
Concen: 47.622 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.01 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.0	31.0	46.6
71	35.0	29.7	44.5

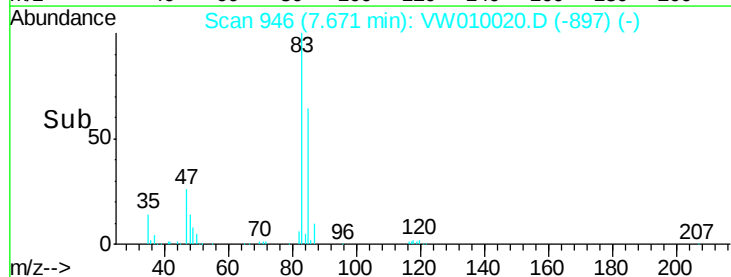
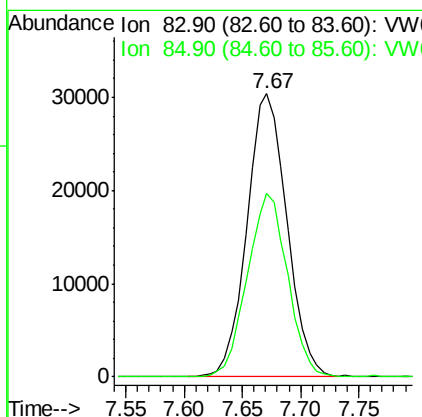
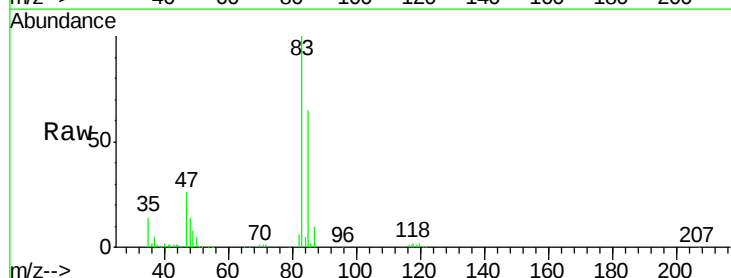
Manual Integrations
APPROVED

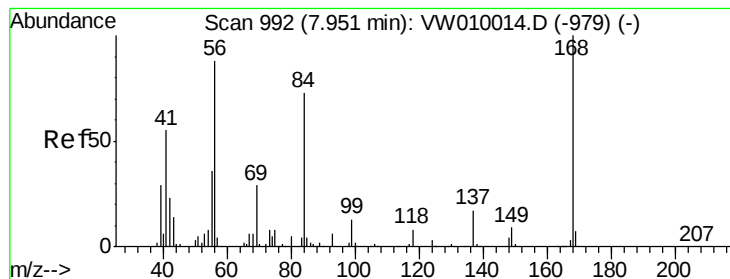
MMDadoda
4/18/2019 11:40:38 AM



#30
Chloroform
Concen: 9.197 ug/l
RT: 7.67 min Scan# 946
Delta R.T. -0.00 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.6	50.7	76.1





#31

Cyclohexane

Concen: 9.669 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

Instrument :

MSVOA_W

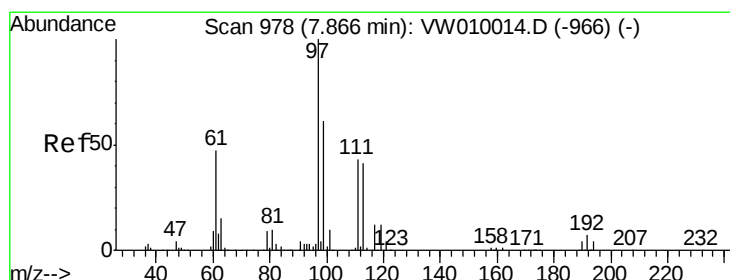
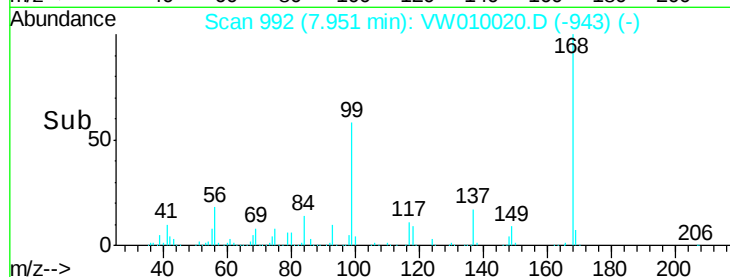
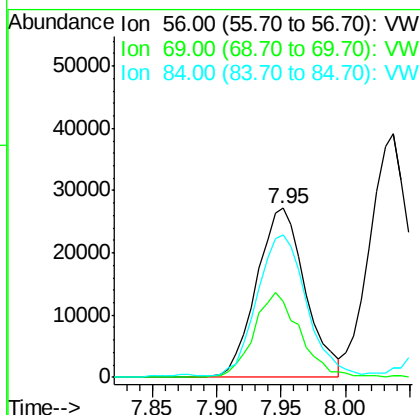
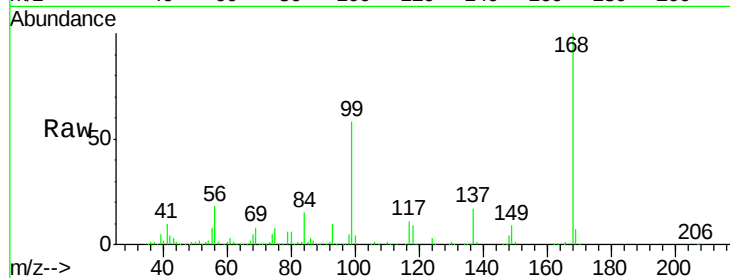
ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:	56	Resp:	71503
Ion Ratio	Lower	Upper	
56	100		
69	44.6	26.6	40.0#
84	82.9	66.2	99.2

Manual Integrations
APPROVED

MMDadoda
4/18/2019 11:40:38 AM



#32

1,1,1-Trichloroethane

Concen: 9.179 ug/l

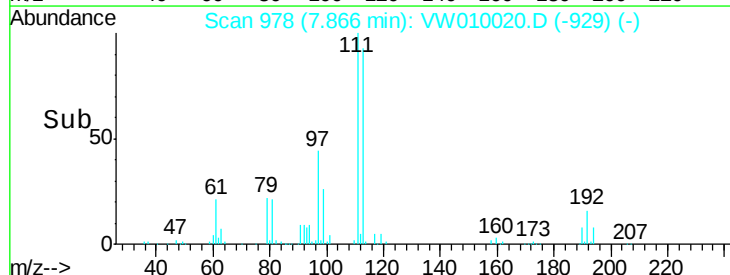
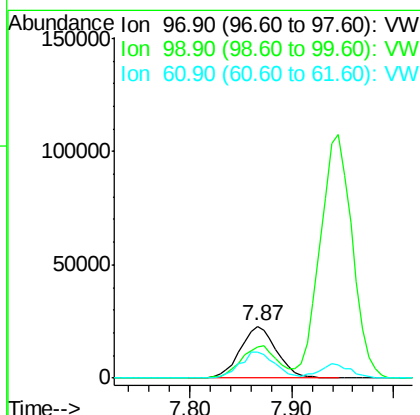
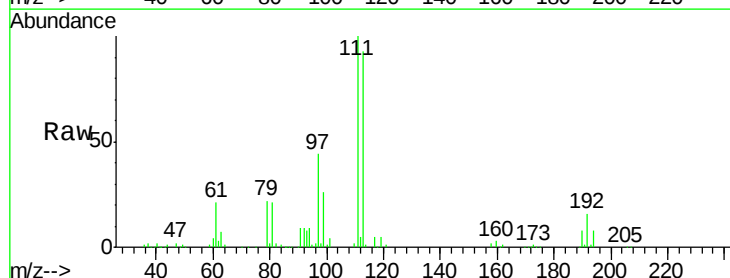
RT: 7.87 min Scan# 978

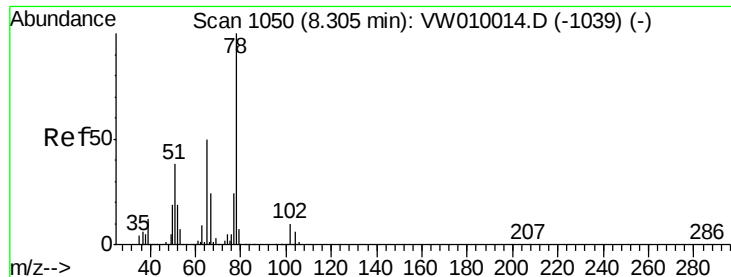
Delta R.T. -0.00 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

Tgt Ion:	97	Resp:	57019
Ion Ratio	Lower	Upper	
97	100		
99	64.2	50.2	75.2
61	48.5	38.2	57.2





#33

1,2-Dichloroethane-d4

Concen: 50.594 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion: 65 Resp: 231349

Ion Ratio Lower Upper

65 100

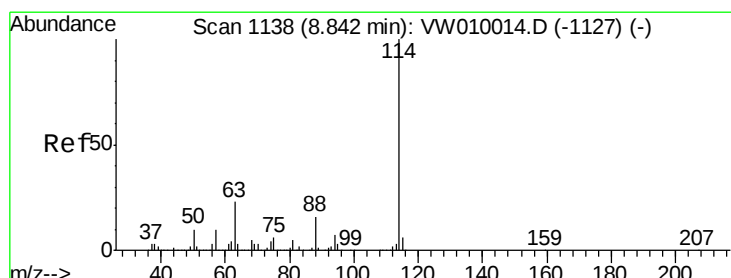
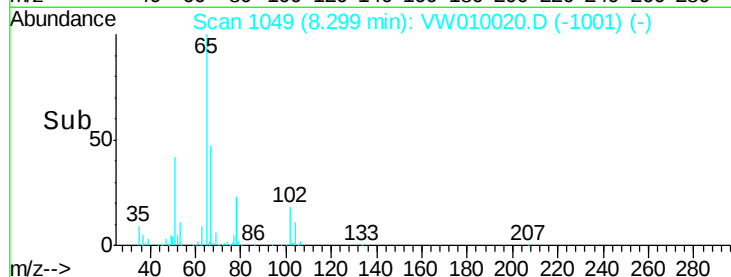
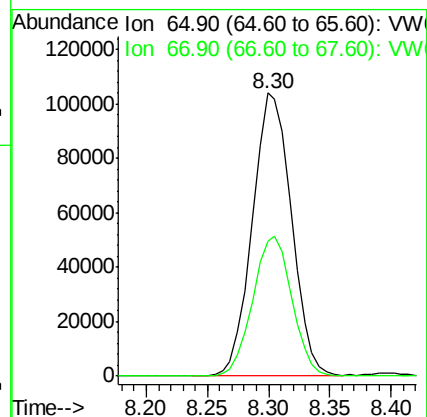
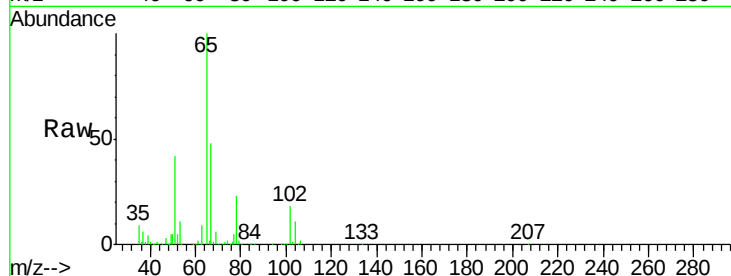
67 49.5 0.0 100.8

Manual Integrations

APPROVED

MMDadoda

4/18/2019 11:40:38 AM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

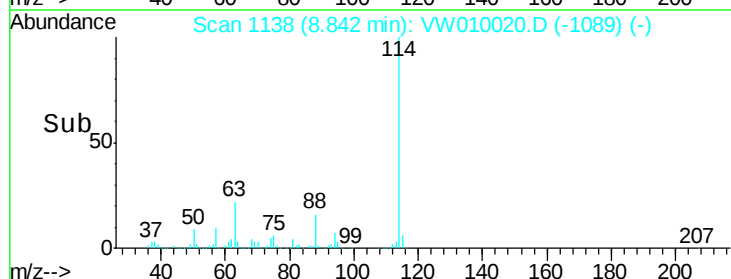
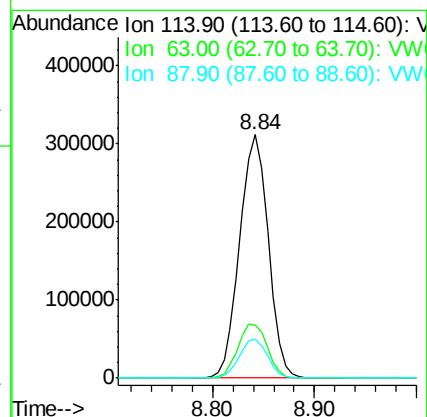
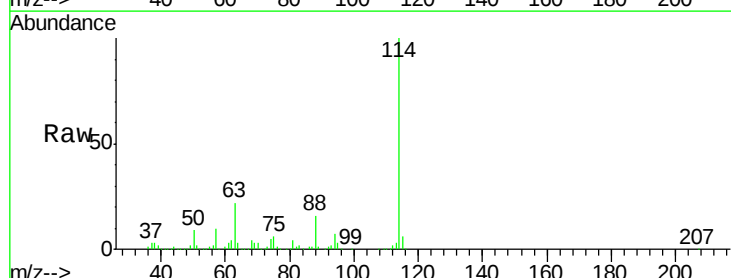
Tgt Ion: 114 Resp: 607382

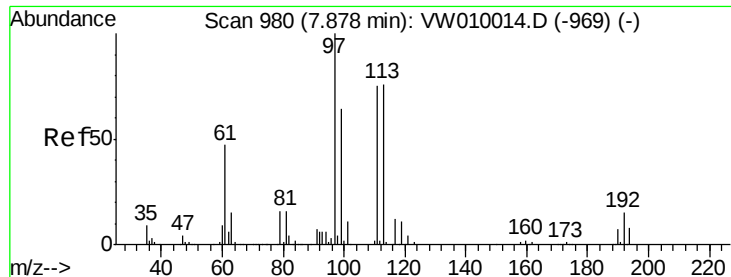
Ion Ratio Lower Upper

114 100

63 21.8 0.0 46.2

88 15.9 0.0 32.6





#35

Dibromofluoromethane

Concen: 47.083 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.00 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

Instrument :

MSVOA_W

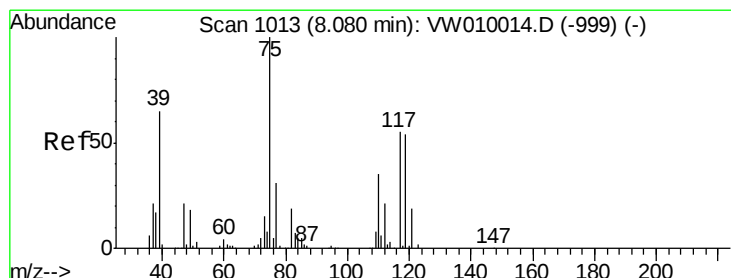
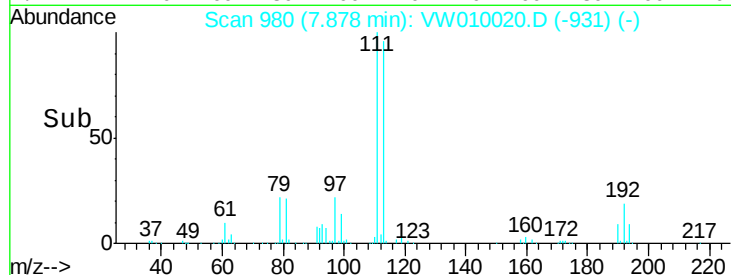
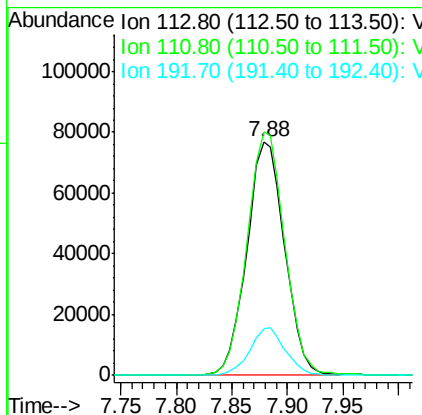
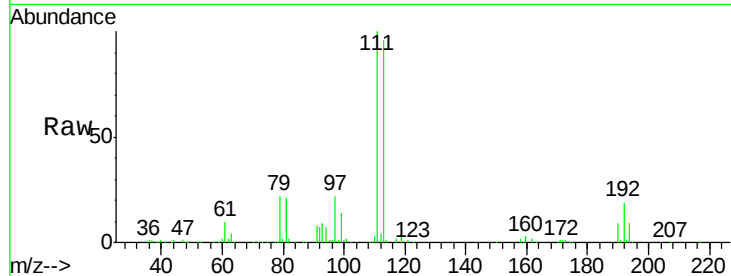
ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:	113	Resp:	181812
Ion Ratio	Lower	Upper	
113	100		
111	104.3	82.6	123.8
192	19.2	15.4	23.2

Manual Integrations
APPROVED

MMDadoda
4/18/2019 11:40:38 AM



#36

1,1-Dichloropropene

Concen: 9.076 ug/l

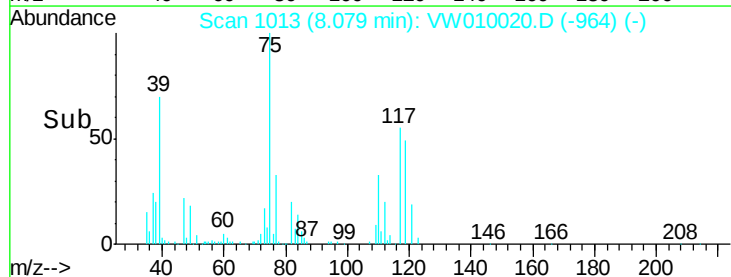
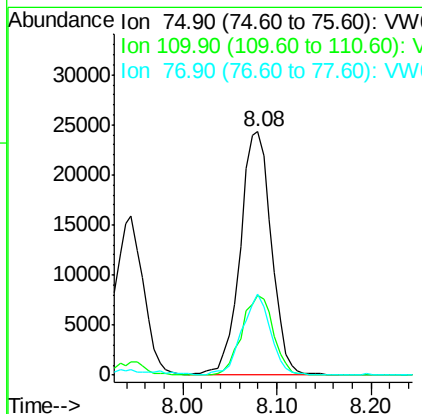
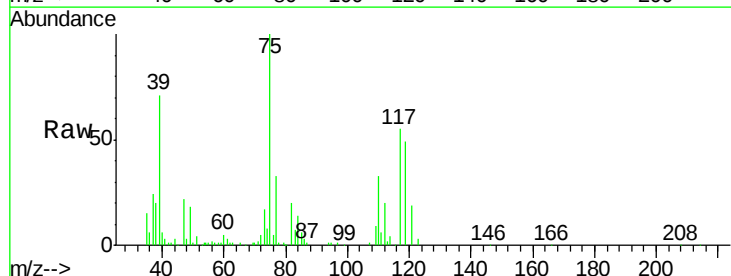
RT: 8.08 min Scan# 1013

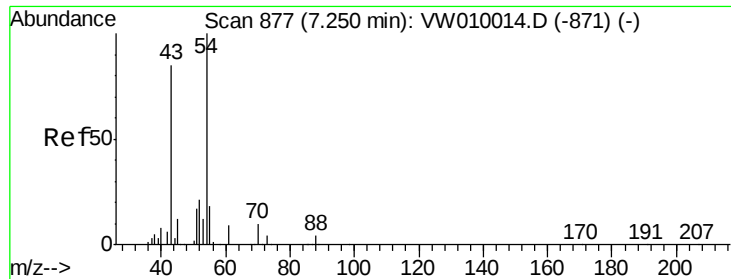
Delta R.T. -0.00 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

Tgt Ion:	75	Resp:	56312
Ion Ratio	Lower	Upper	
75	100		
110	33.2	16.6	49.8
77	30.5	24.8	37.2





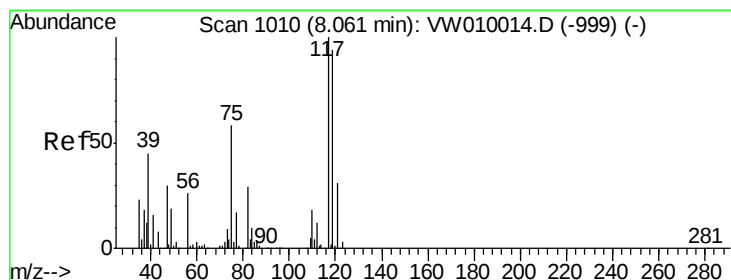
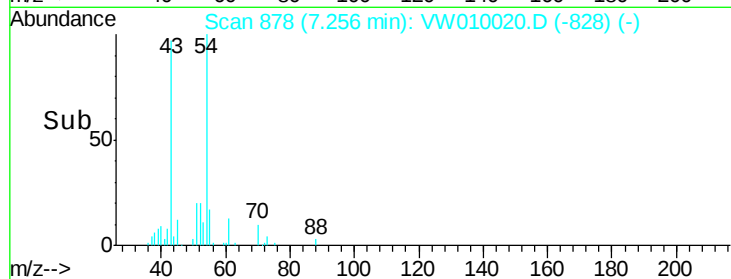
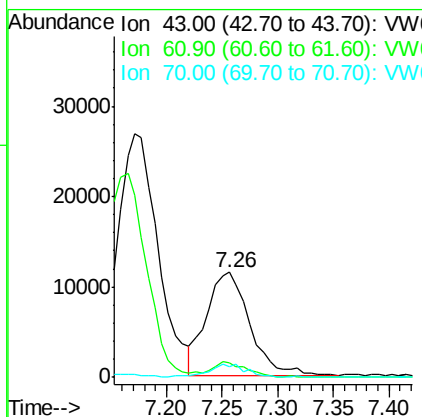
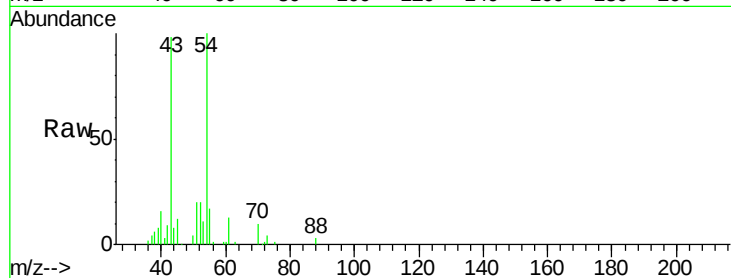
#37
Ethyl Acetate
Concen: 9.859 ug/l
RT: 7.26 min Scan# 878
Delta R.T. 0.01 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	11.1	9.8	14.8
70	11.0	7.4	11.0

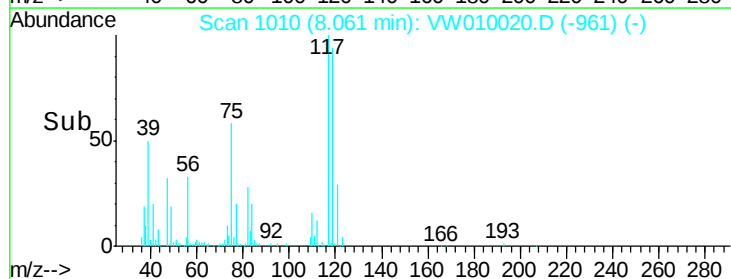
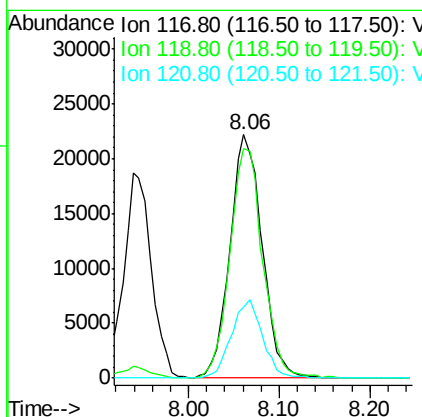
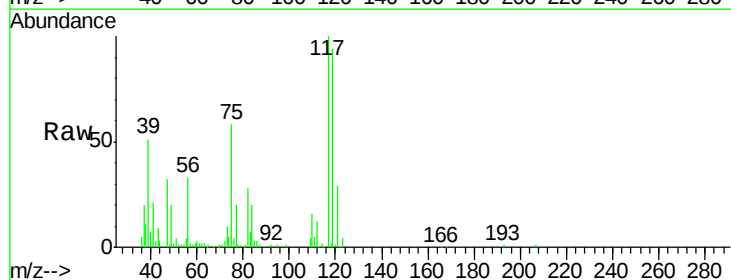
Manual Integrations
APPROVED

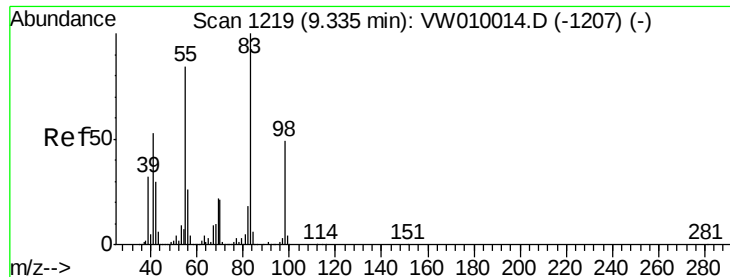
MMDadoda
4/18/2019 11:40:38 AM



#38
Carbon Tetrachloride
Concen: 9.054 ug/l
RT: 8.06 min Scan# 1010
Delta R.T. -0.00 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.3	75.3	112.9
121	28.9	24.4	36.6





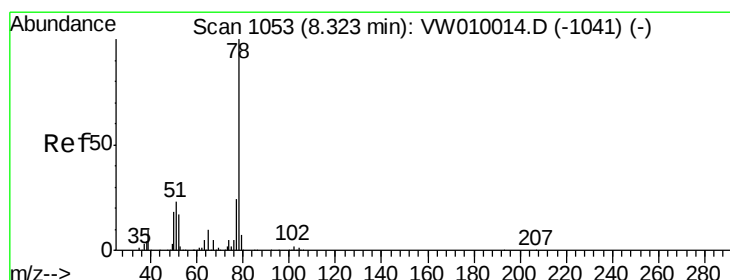
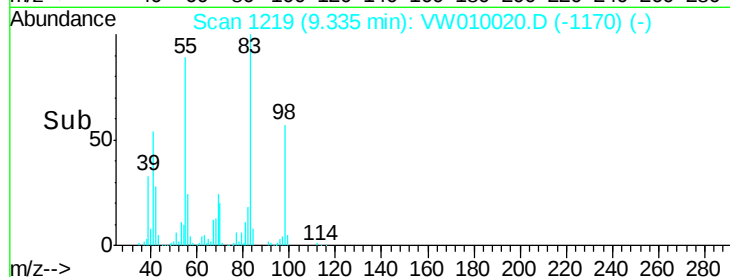
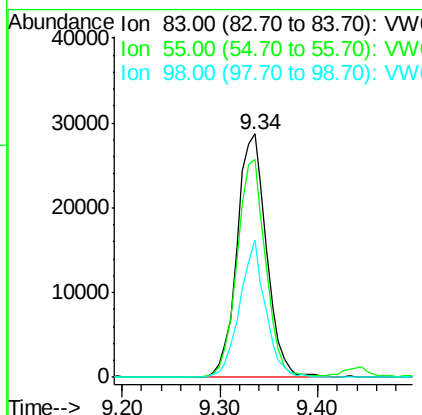
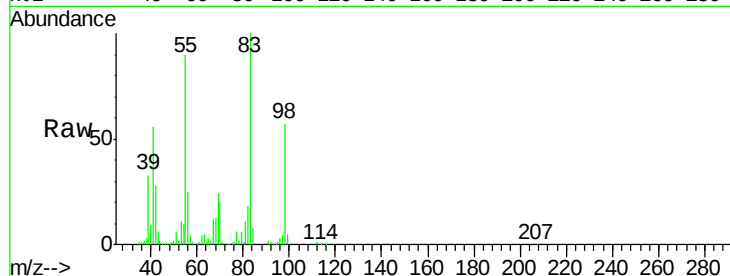
#39
Methvlcvclohexane
Concen: 8.956 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
83	100		
55	89.5	67.1	100.7
98	56.7	39.2	58.8

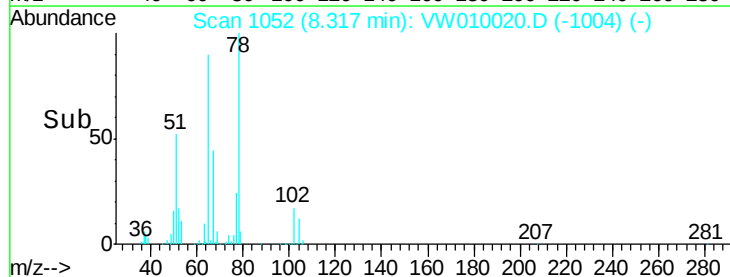
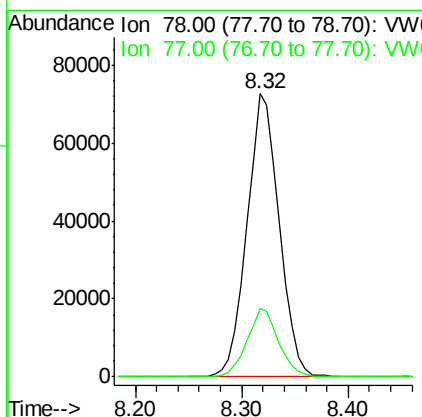
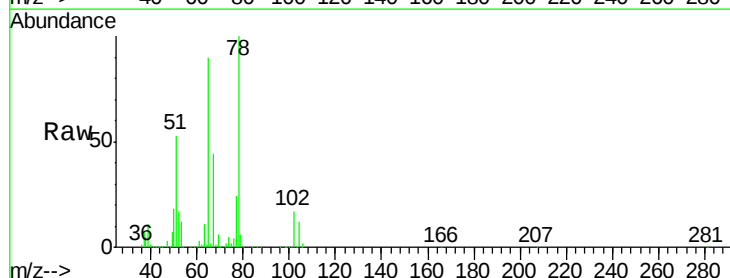
Manual Integrations
APPROVED

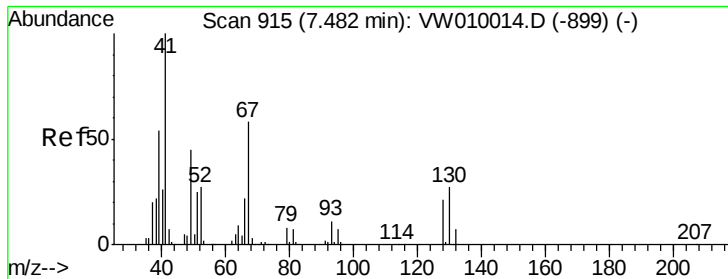
MMDadoda
4/18/2019 11:40:38 AM



#40
Benzene
Concen: 9.084 ug/l
RT: 8.32 min Scan# 1052
Delta R.T. -0.01 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.1	28.7





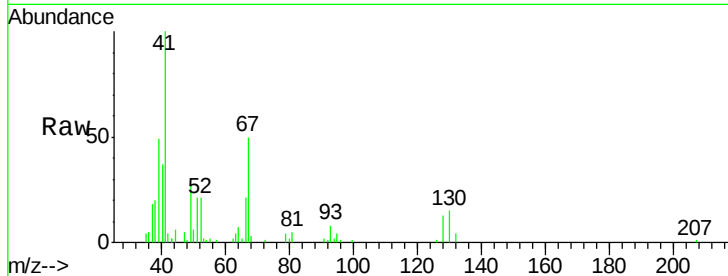
#41
Methacrylonitrile
Concen: 9.476 ug/l
RT: 7.48 min Scan# 914
Delta R.T. -0.01 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2019

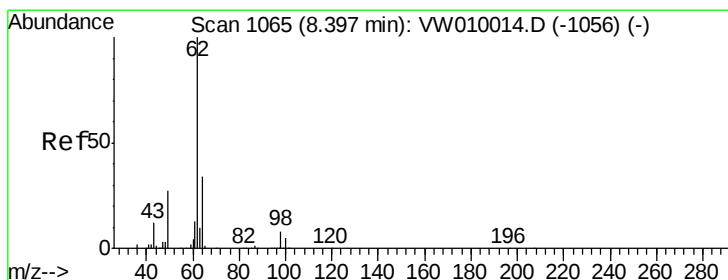
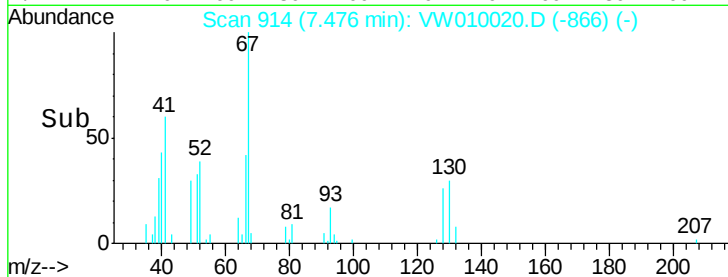
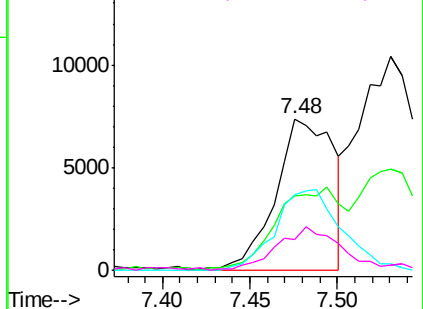
Tot Ion	41	Resp	17027
Ion Ratio	Lower	Upper	
41	100		
39	63.4	45.0	67.4
67	60.9	50.7	76.1
52	32.4	22.6	33.8

Manual Integrations
APPROVED

MMDadoda
4/18/2019 11:40:38 AM

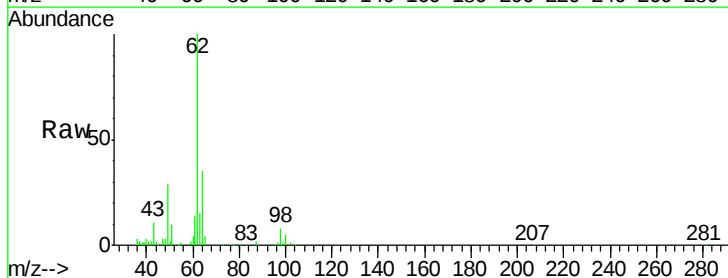


Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 39.00 (38.70 to 39.70): VW
Ion 67.00 (66.70 to 67.70): VW
Ion 52.00 (51.70 to 52.70): VW

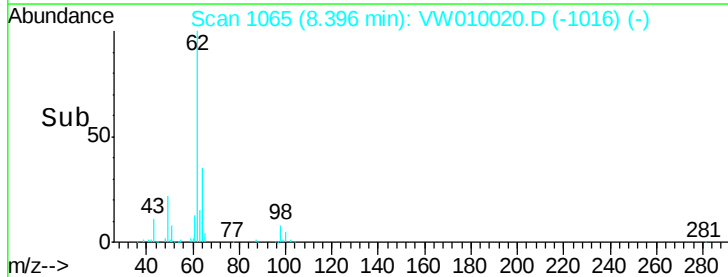
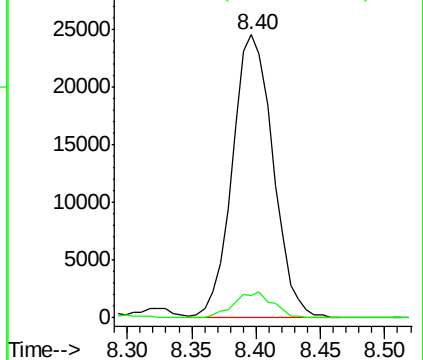


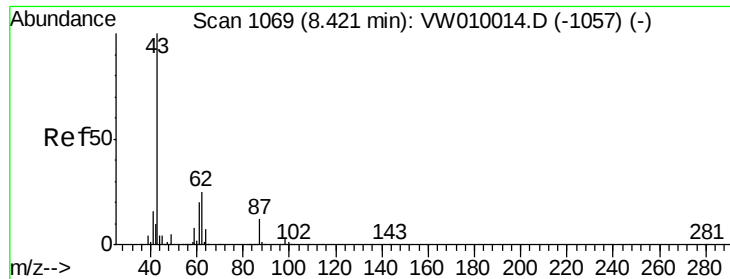
#42
1,2-Dichloroethane
Concen: 9.232 ug/l
RT: 8.40 min Scan# 1065
Delta R.T. -0.00 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Tgt Ion	62	Resp	53820
Ion Ratio	Lower	Upper	
62	100		
98	8.8	0.0	16.6



Abundance Ion 61.90 (61.60 to 62.60): VW
Ion 97.90 (97.60 to 98.60): VW





#43

Isopropyl Acetate

Concen: 9.697 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. -0.00 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

Instrument :

MSVOA_W

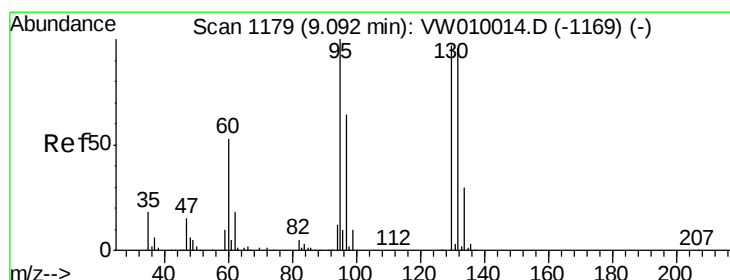
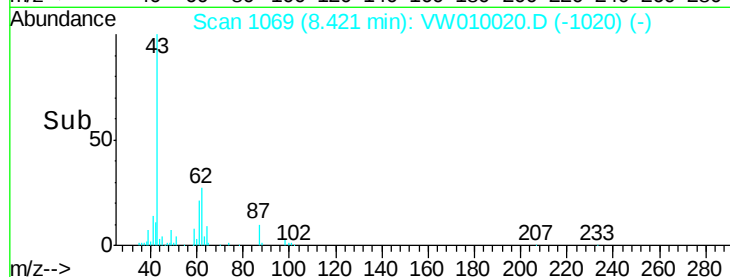
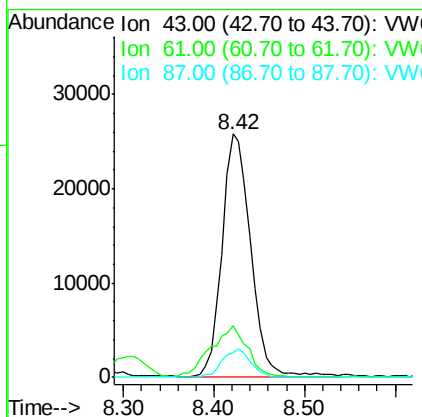
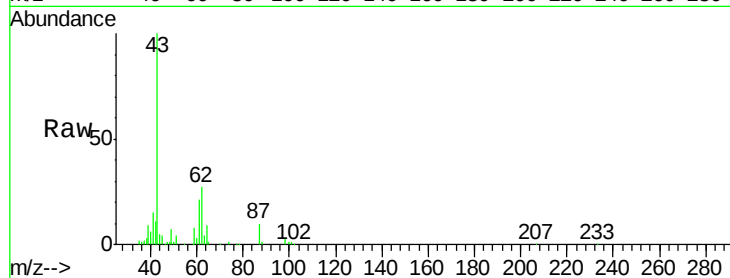
ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:	43	Resp:	57287
Ion	Ratio	Lower	Upper
43	100		
61	27.1	23.0	34.6
87	11.4	9.3	13.9

Manual Integrations
APPROVED

MMDadoda
4/18/2019 11:40:38 AM



#44

Trichloroethene

Concen: 8.923 ug/l

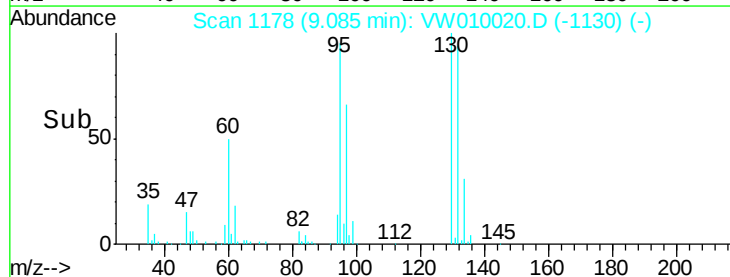
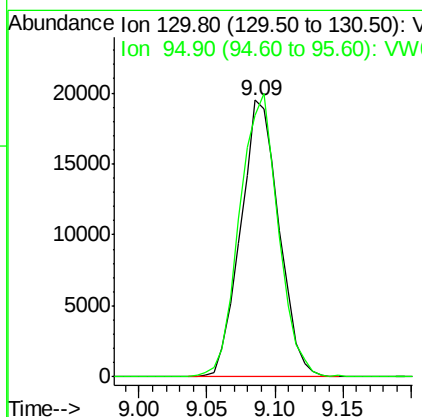
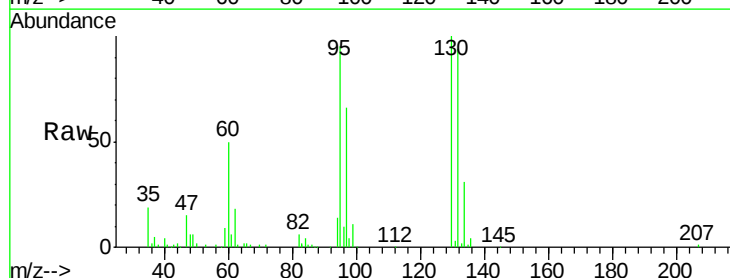
RT: 9.09 min Scan# 1178

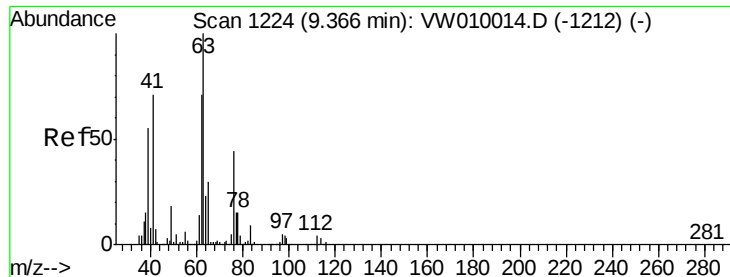
Delta R.T. -0.01 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

Tgt Ion:	130	Resp:	38448
Ion	Ratio	Lower	Upper
130	100		
95	94.7	0.0	205.4





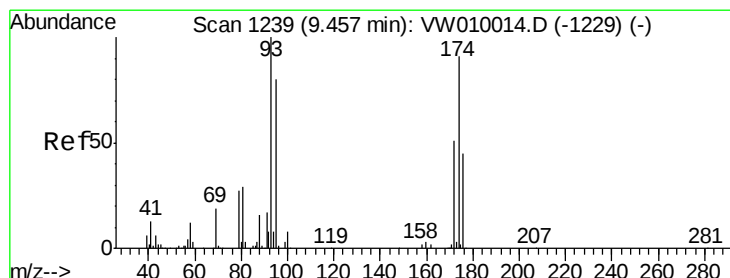
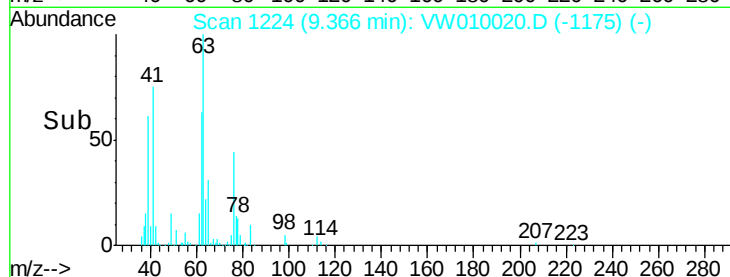
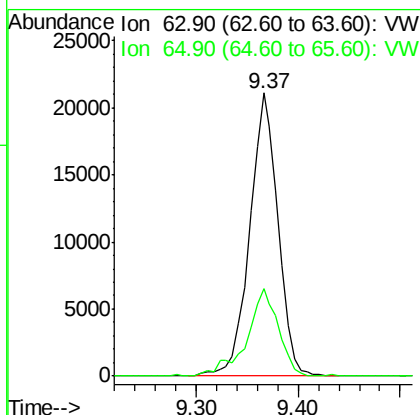
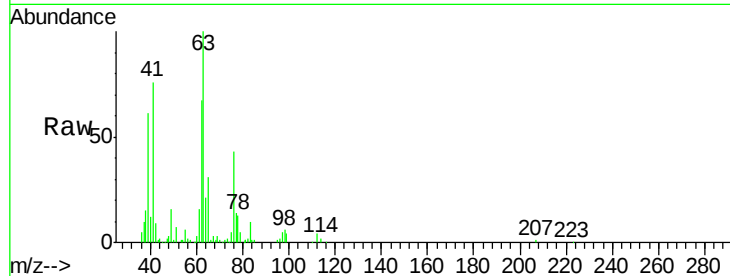
#45
 1,2-Dichloropropane
 Concen: 9.128 ug/l
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.00 min
 Lab File: VW010020.D
 Acq: 17 Apr 2019 17:07

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

Tot Ion	63	Resp	40702
Ion Ratio	Lower	Upper	
63	100		
65	30.7	23.8	35.6

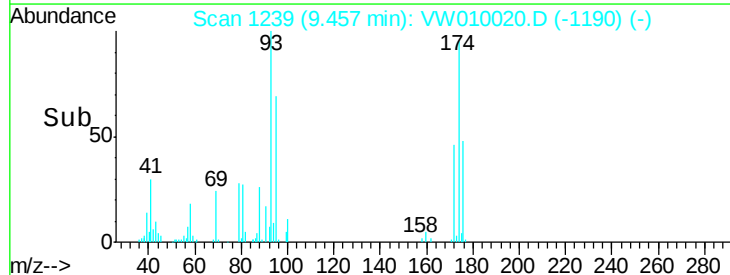
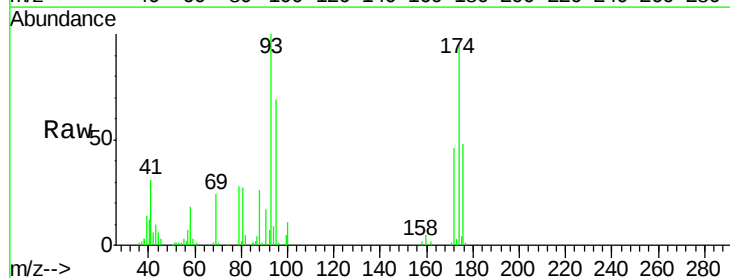
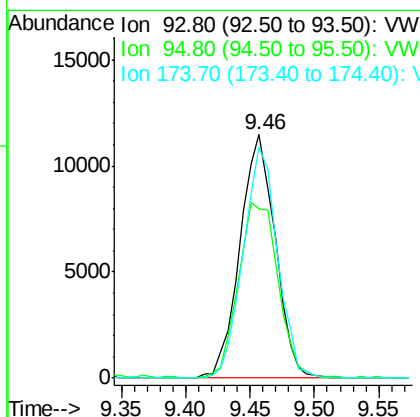
Manual Integrations
 APPROVED

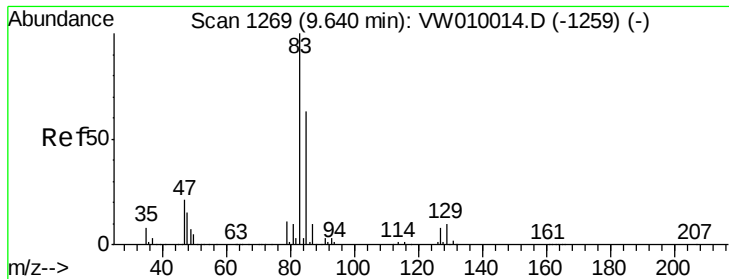
MMDadoda
 4/18/2019 11:40:38 AM



#46
 Dibromomethane
 Concen: 9.423 ug/l
 RT: 9.46 min Scan# 1239
 Delta R.T. -0.00 min
 Lab File: VW010020.D
 Acq: 17 Apr 2019 17:07

Tgt Ion	93	Resp	21777
Ion Ratio	Lower	Upper	
93	100		
95	81.1	65.8	98.8
174	91.8	75.5	113.3





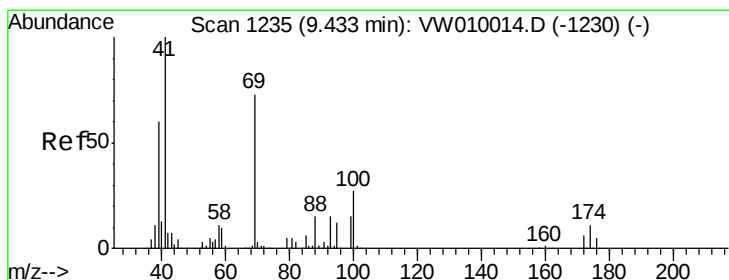
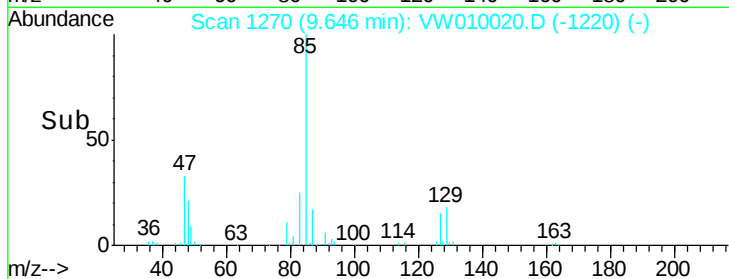
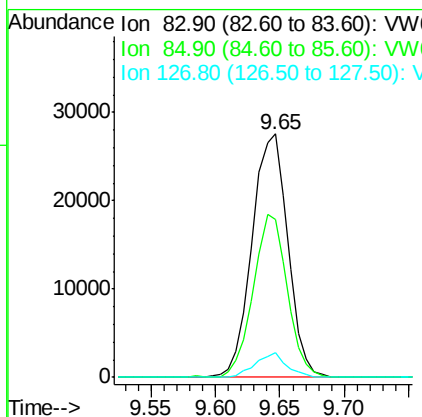
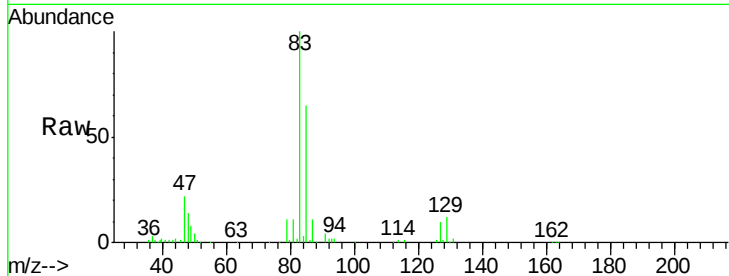
#47
Bromodichloromethane
Concen: 8.855 ug/l
RT: 9.65 min Scan# 1270
Delta R.T. 0.01 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
83	100	52830		
85	64.7		50.6	75.8
127	9.9		6.6	10.0

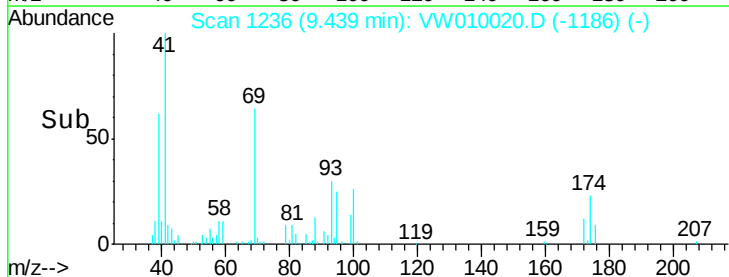
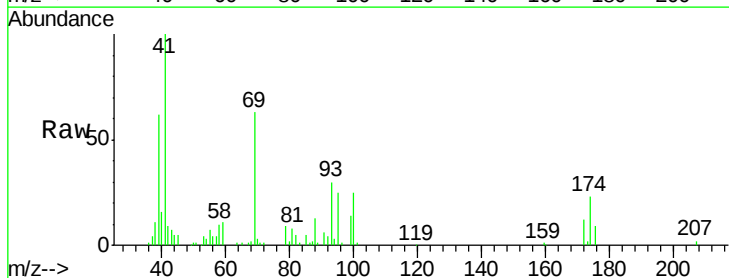
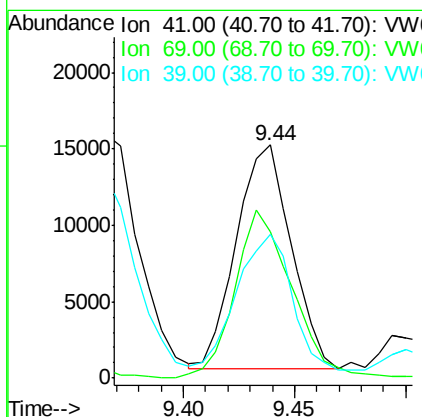
Manual Integrations
APPROVED

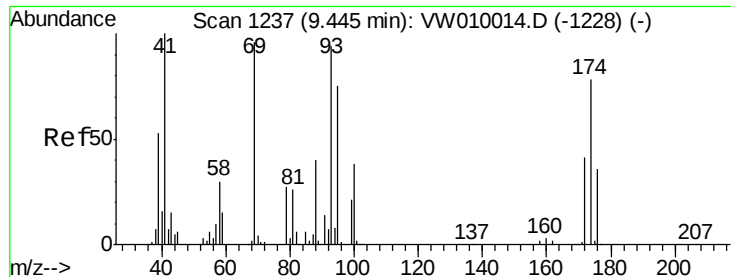
MMDadoda
4/18/2019 11:40:38 AM



#48
Methyl methacrylate
Concen: 8.759 ug/l
RT: 9.44 min Scan# 1236
Delta R.T. 0.01 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	25188		
69	78.5		60.1	90.1
39	70.3		51.0	76.6





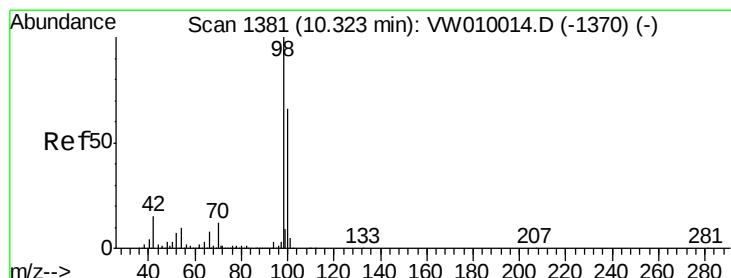
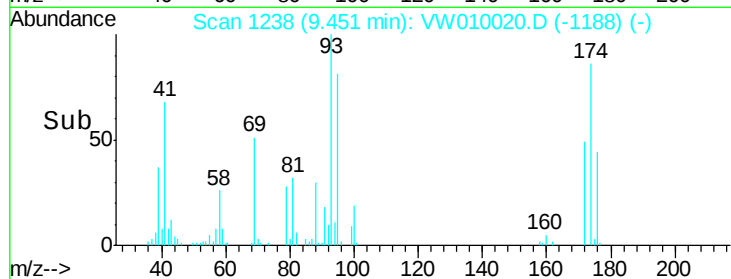
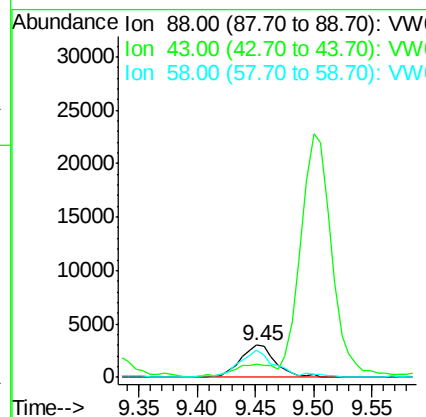
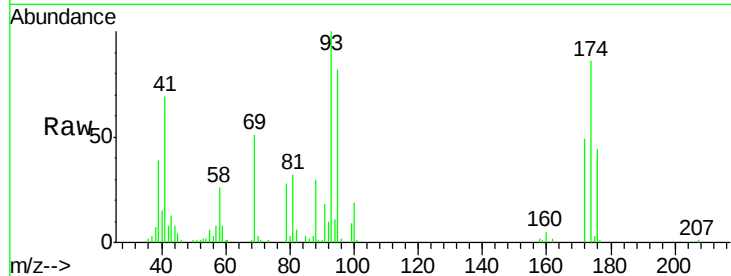
#49
1,4-Dioxane
Concen: 179.649 ug/l
RT: 9.45 min Scan# 1238
Delta R.T. 0.01 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
88	100		
43	49.2	31.9	47.9#
58	84.0	61.8	92.6

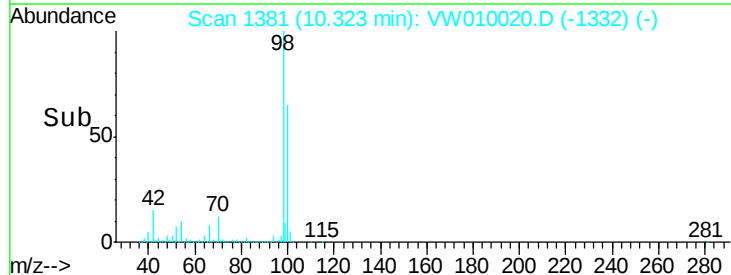
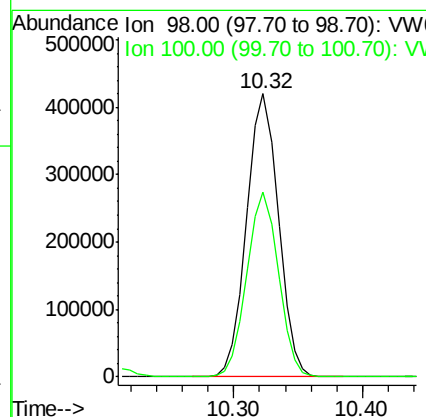
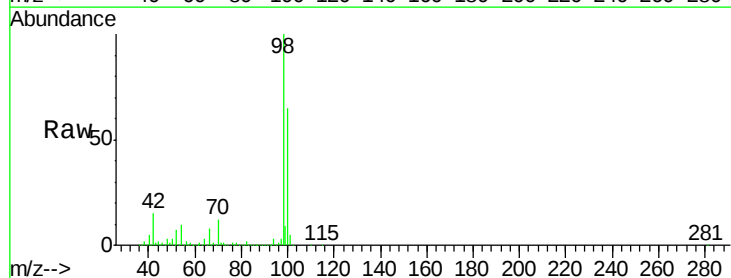
Manual Integrations
APPROVED

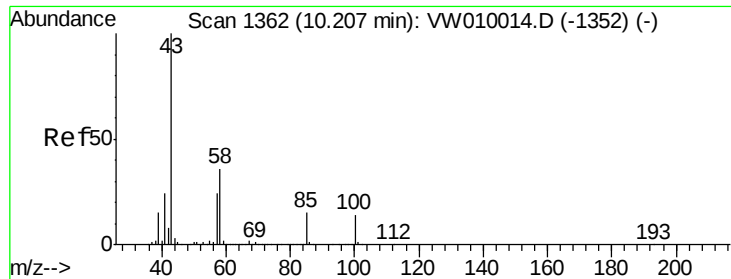
MMDadoda
4/18/2019 11:40:38 AM



#50
Toluene-d8
Concen: 49.731 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.3	78.5





#51

4-Methyl-2-Pentanone

Concen: 47.938 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion: 43 Resp: 148333

Ion Ratio Lower Upper

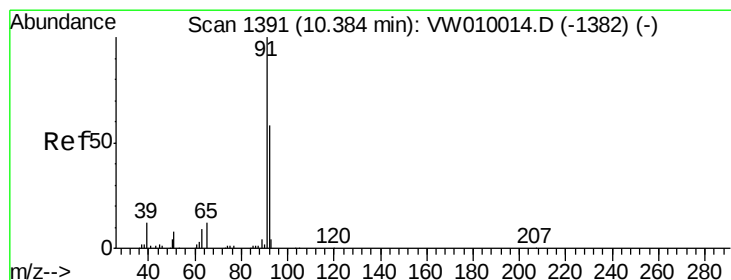
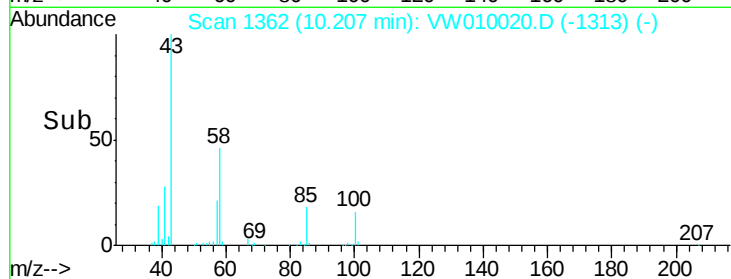
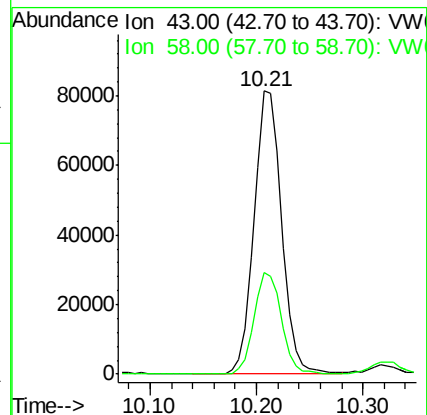
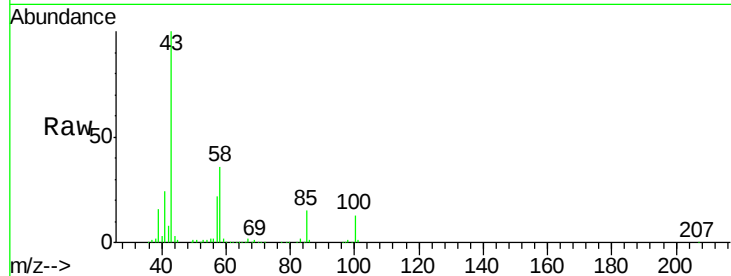
43 100

58 35.8 28.9 43.3

Manual Integrations
APPROVED

MMDadoda

4/18/2019 11:40:38 AM



#52

Toluene

Concen: 9.188 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW010020.D

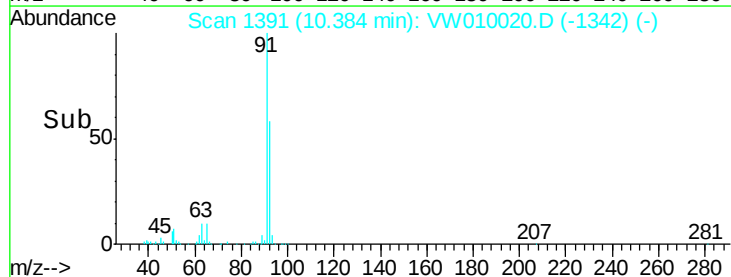
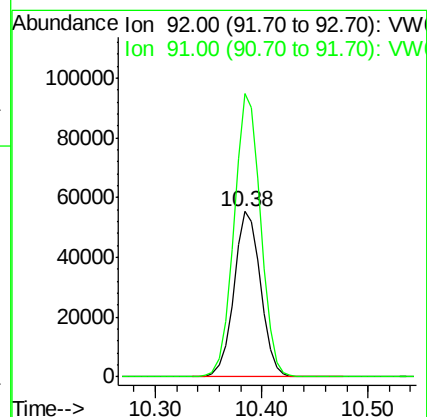
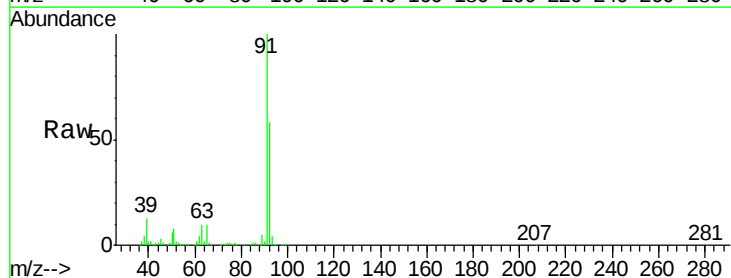
Acq: 17 Apr 2019 17:07

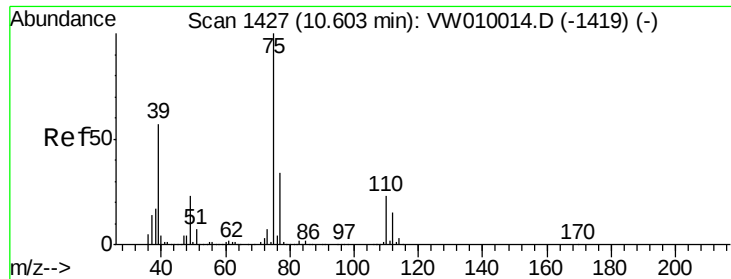
Tgt Ion: 92 Resp: 97096

Ion Ratio Lower Upper

92 100

91 171.1 138.5 207.7





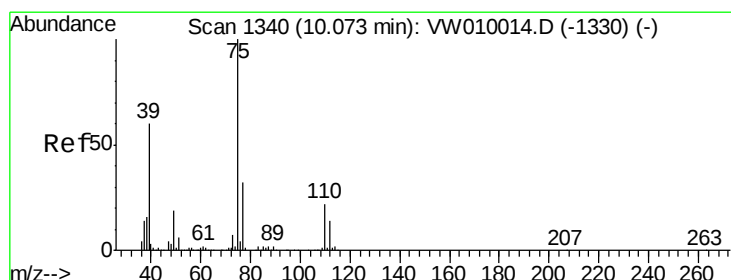
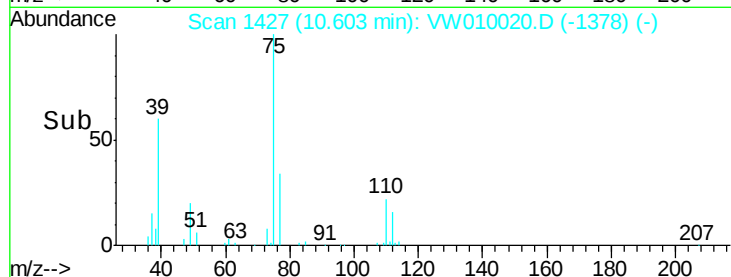
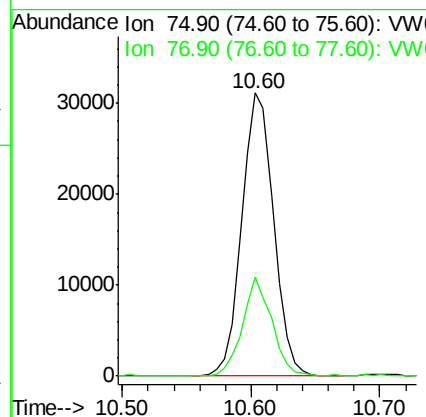
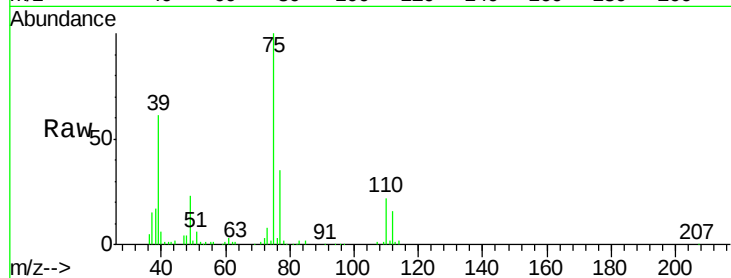
#53
t-1,3-Dichloropropene
Concen: 8.990 ug/l
RT: 10.60 min Scan# 1427
Delta R.T. -0.00 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
75	100		
77	34.9	26.9	40.3

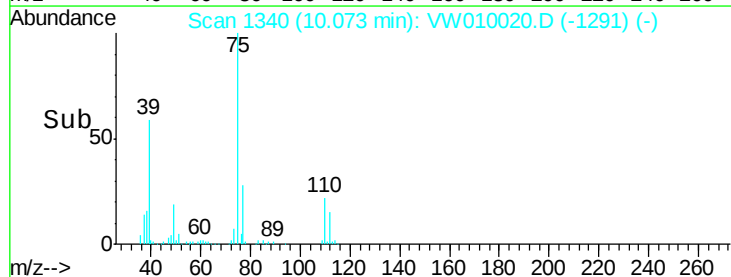
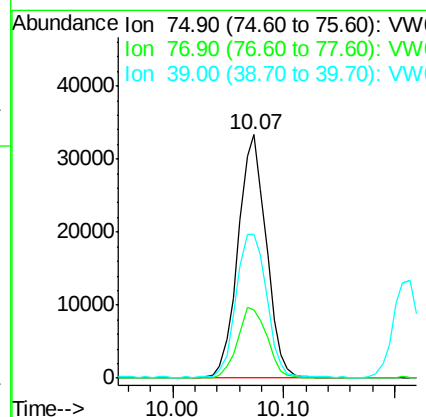
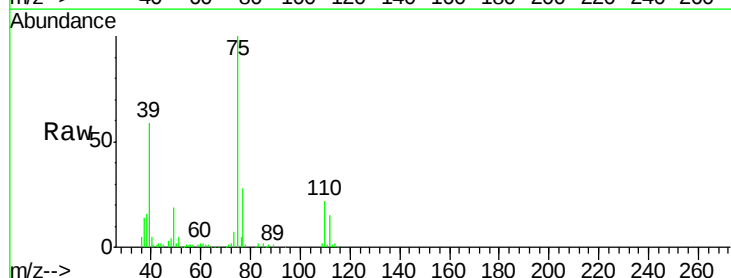
Manual Integrations
APPROVED

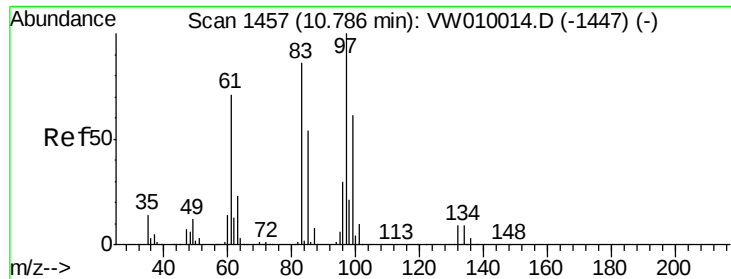
MMDadoda
4/18/2019 11:40:38 AM



#54
cis-1,3-Dichloropropene
Concen: 8.668 ug/l
RT: 10.07 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Tgt Ion	Ratio	Lower	Upper
75	100		
77	28.1	25.6	38.4
39	58.9	47.8	71.6





#55

1,1,2-Trichloroethane

Concen: 9.016 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion: 97 Resp: 29083

Ion Ratio Lower Upper

97 100

83 92.6 68.9 103.3

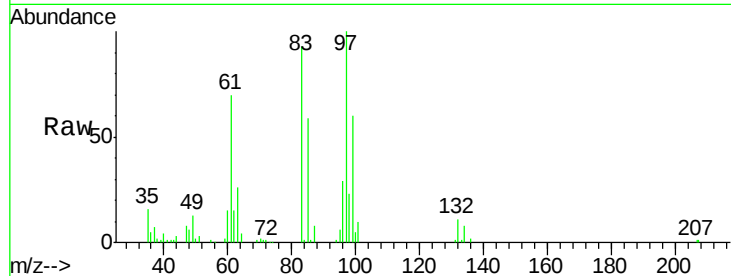
85 58.5 42.9 64.3

99 60.4 48.6 72.8

Manual Integrations
APPROVED

MMDadoda

4/18/2019 11:40:38 AM

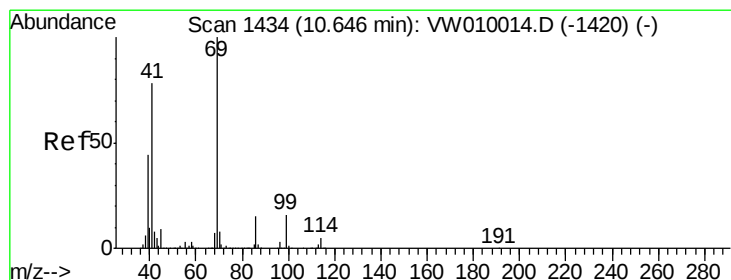
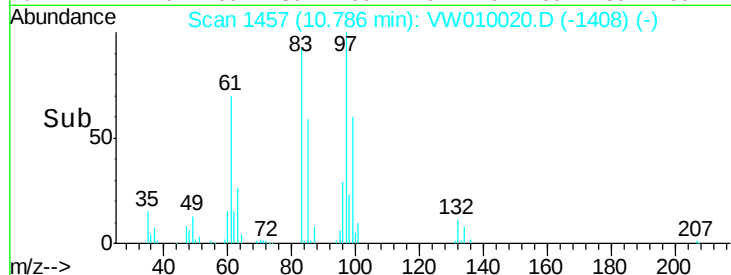
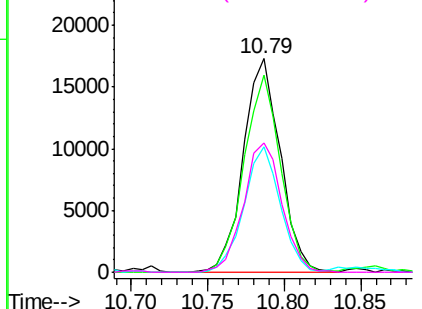


Abundance Ion 96.90 (96.60 to 97.60): VW

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: 9.983 ug/l

RT: 10.65 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

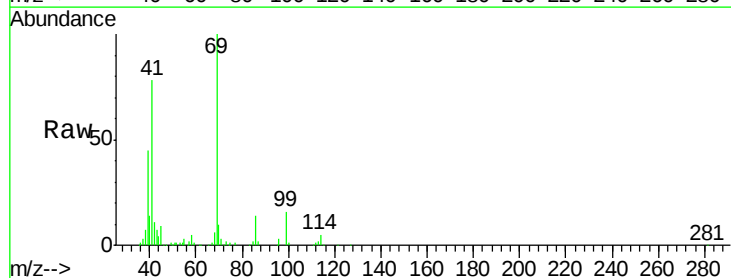
Tgt Ion: 69 Resp: 34717

Ion Ratio Lower Upper

69 100

41 75.9 61.0 91.6

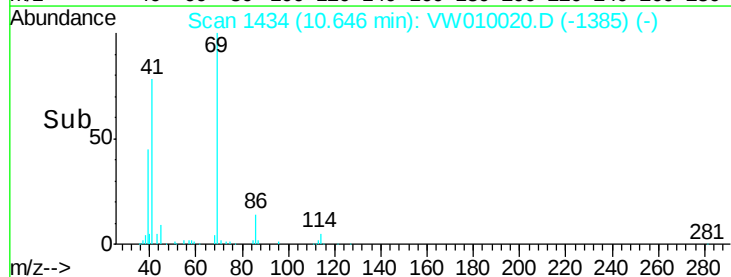
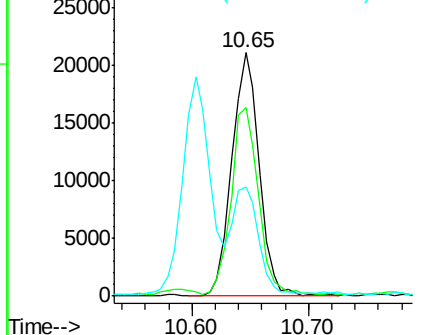
39 41.3 33.8 50.6

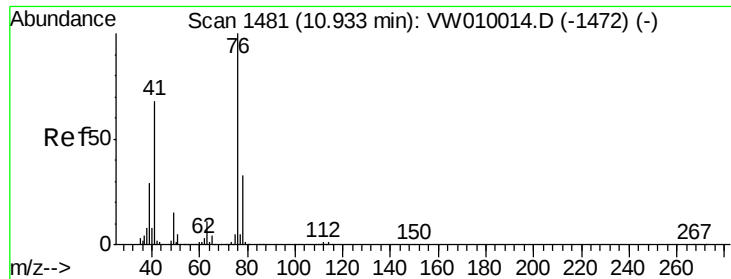


Abundance Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW





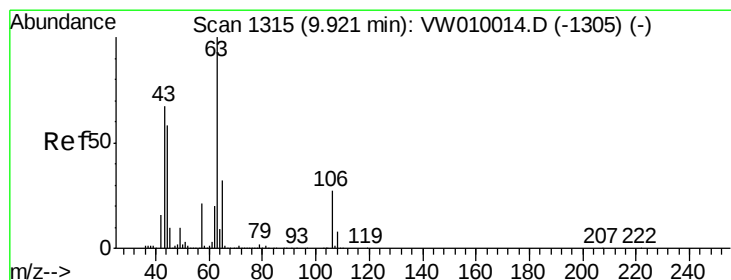
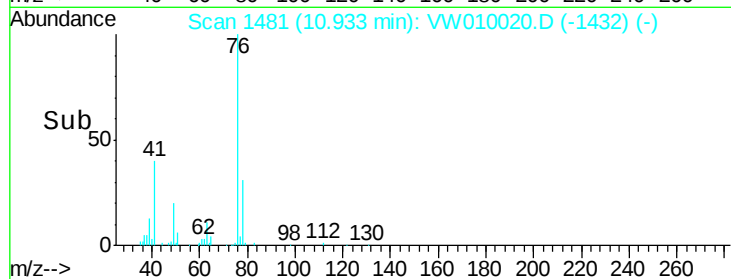
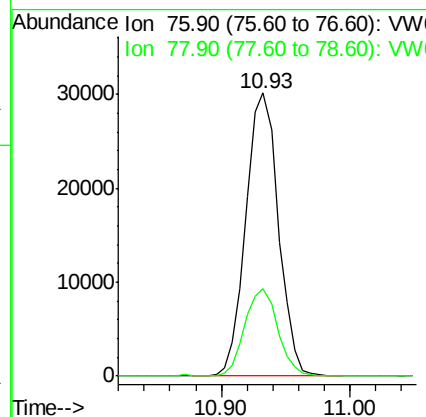
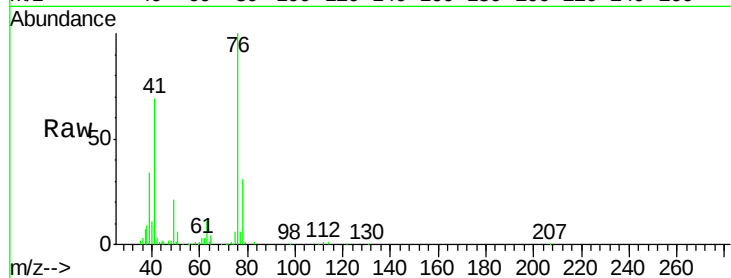
#57
 1,3-Dichloropropane
 Concen: 9.098 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. -0.00 min
 Lab File: VW010020.D
 Acq: 17 Apr 2019 17:07

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
76	100		
78	31.4	25.8	38.8

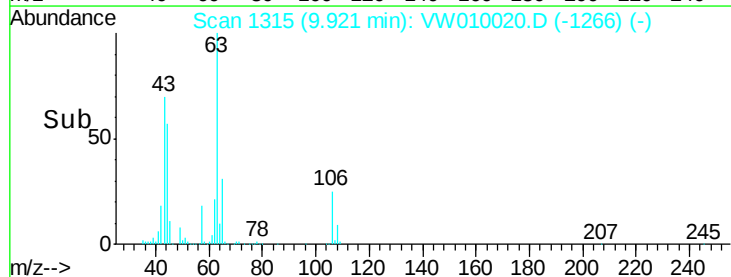
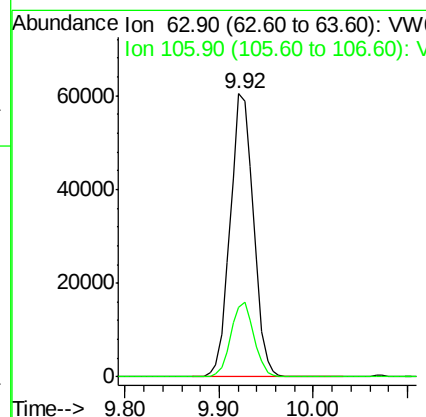
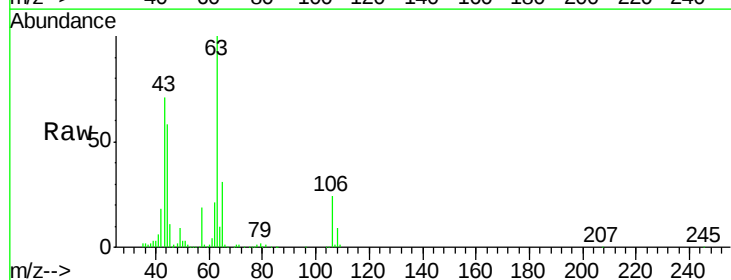
Manual Integrations
 APPROVED

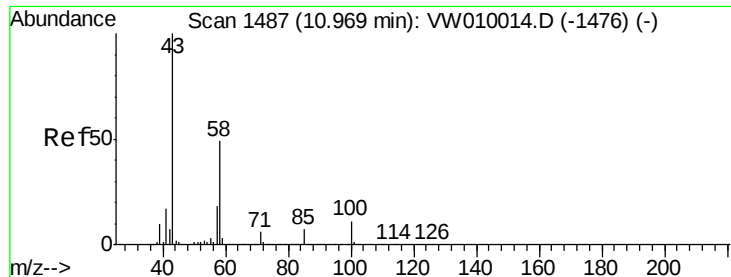
MMDadoda
 4/18/2019 11:40:38 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 54.045 ug/l
 RT: 9.92 min Scan# 1315
 Delta R.T. -0.00 min
 Lab File: VW010020.D
 Acq: 17 Apr 2019 17:07

Tgt Ion	Ratio	Lower	Upper
63	100		
106	25.9	21.4	32.0





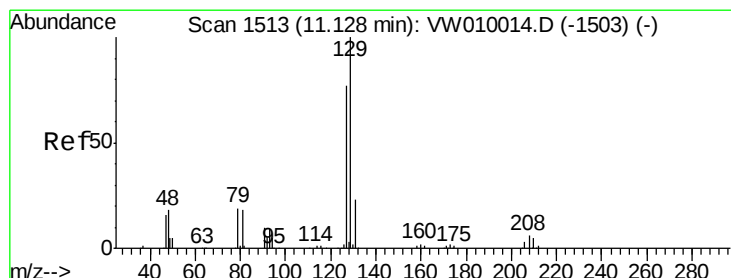
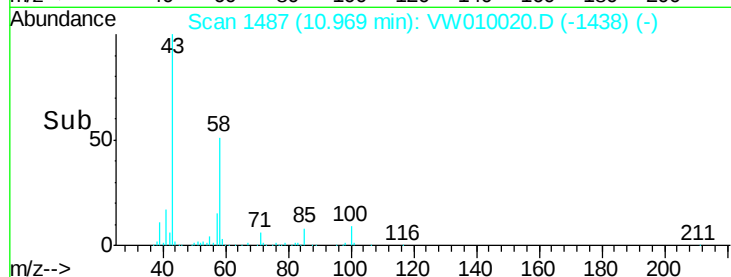
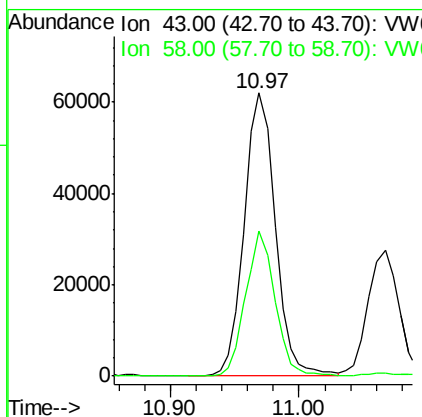
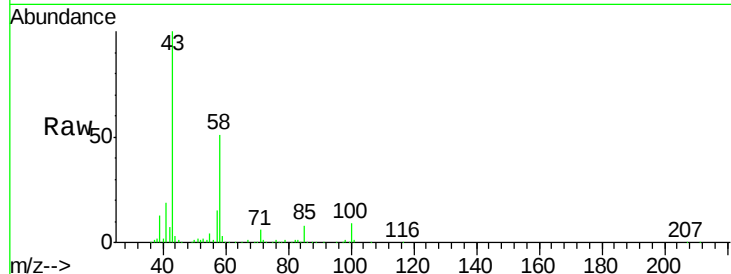
#59
2-Hexanone
Concen: 48.140 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion: 43 Resp: 103690
Ion Ratio Lower Upper
43 100
58 48.2 24.9 74.7

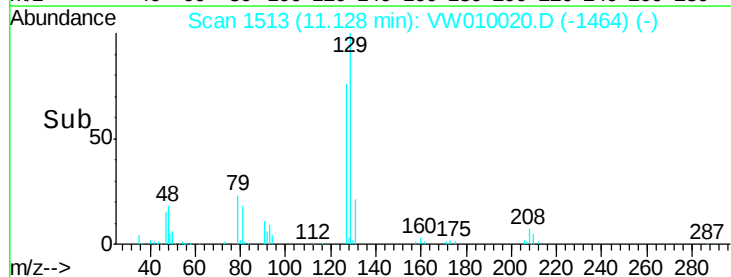
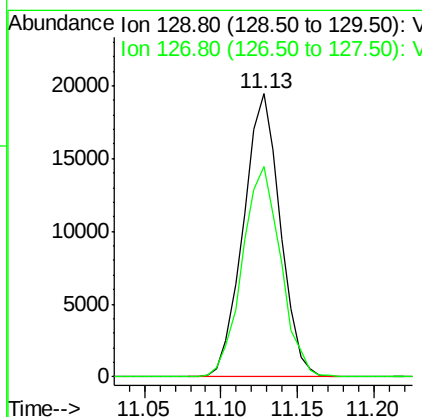
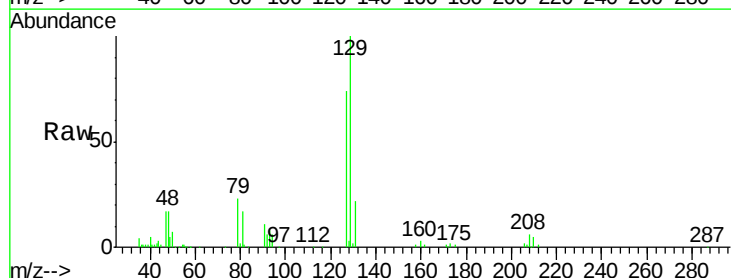
Manual Integrations
APPROVED

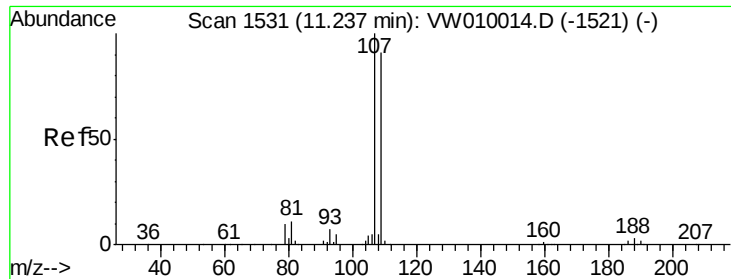
MMDadoda
4/18/2019 11:40:38 AM



#60
Dibromochloromethane
Concen: 8.754 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Tgt Ion: 129 Resp: 32638
Ion Ratio Lower Upper
129 100
127 77.3 38.6 116.0





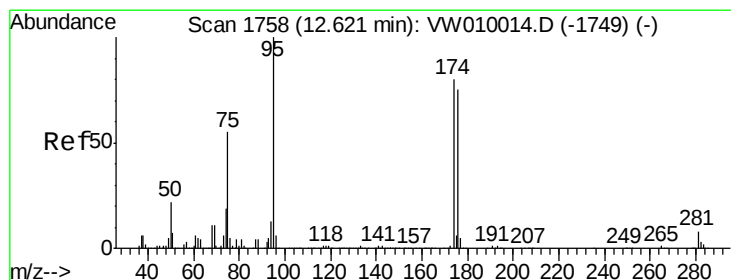
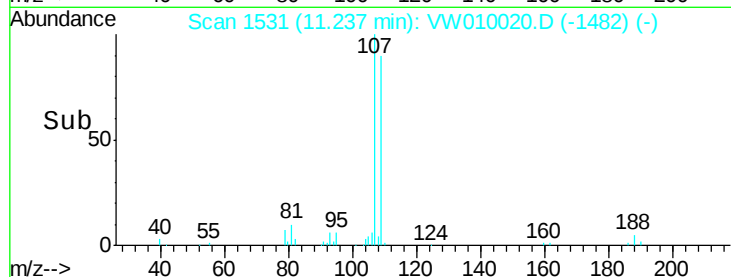
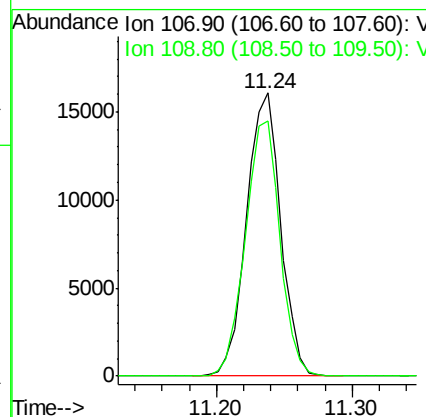
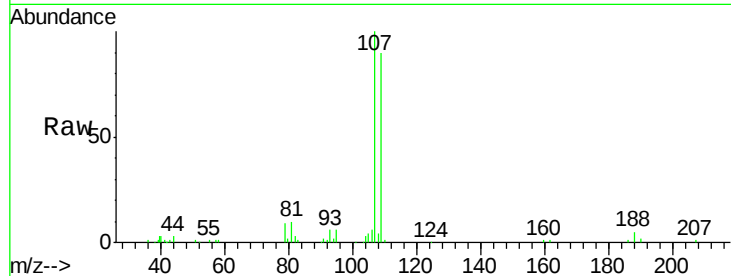
#61
1,2-Dibromoethane
Concen: 9.227 ug/l
RT: 11.24 min Scan# 1531
Delta R.T. -0.00 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
107	100		
109	91.3	73.6	110.4

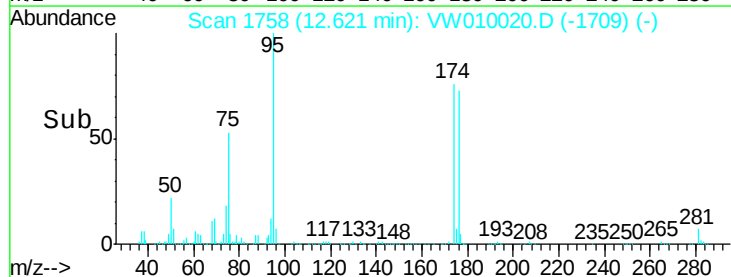
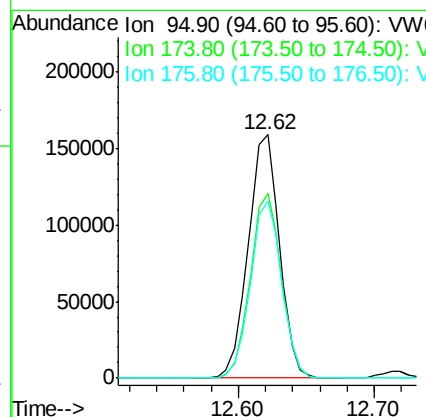
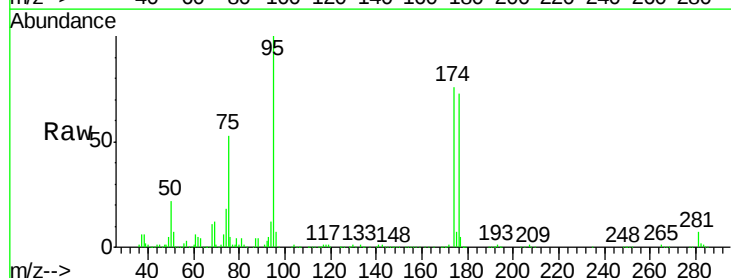
Manual Integrations
APPROVED

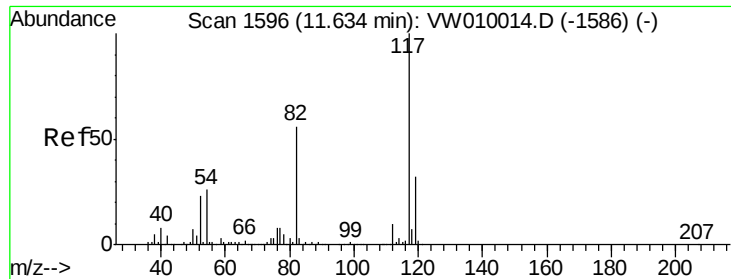
MMDadoda
4/18/2019 11:40:38 AM



#62
4-Bromofluorobenzene
Concen: 48.665 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.00 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Tgt Ion	Ratio	Lower	Upper
95	100		
174	75.8	0.0	151.4
176	72.7	0.0	146.2





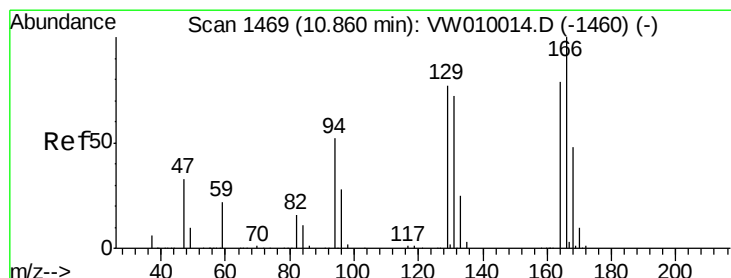
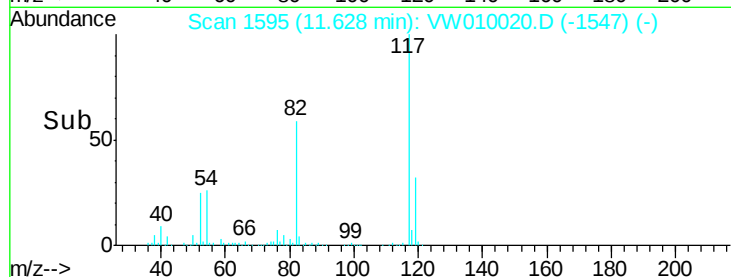
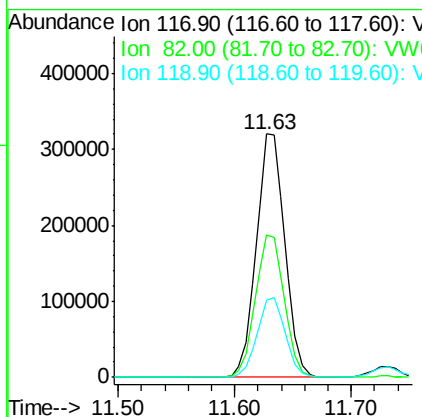
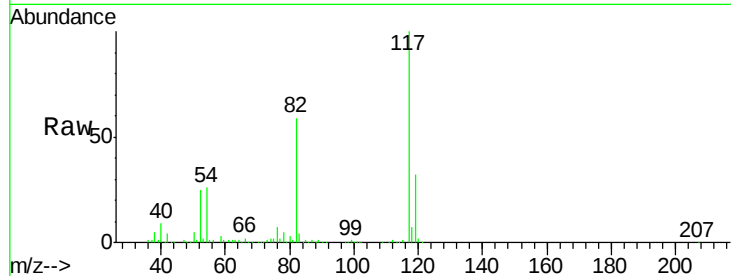
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
117	100	547353		
82	58.6		45.2	67.8
119	31.6		25.4	38.2

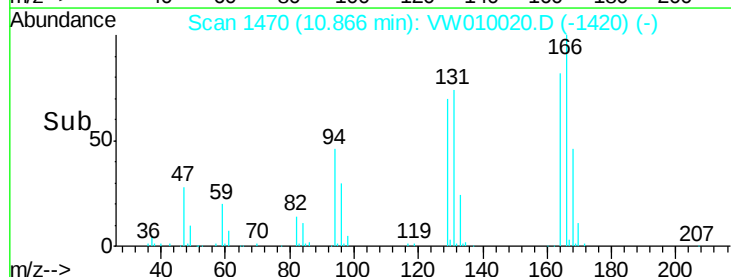
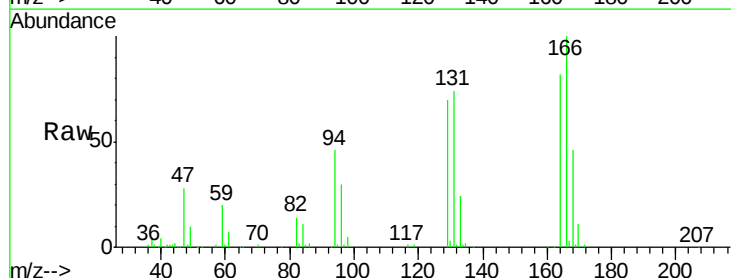
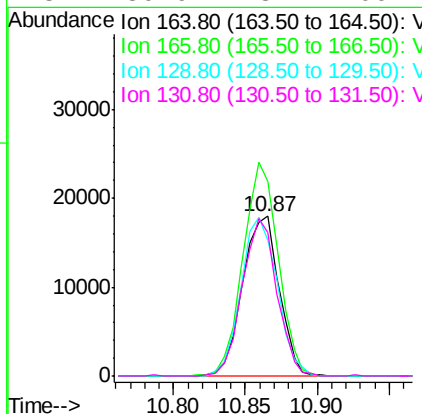
Manual Integrations
APPROVED

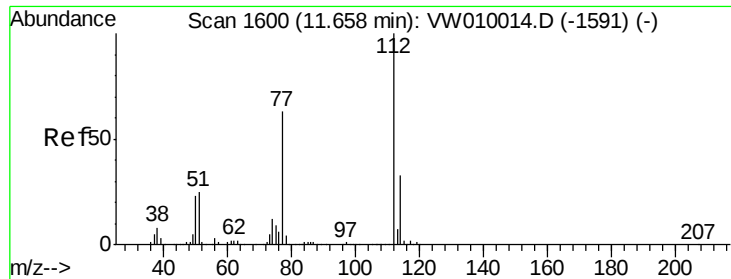
MMDadoda
4/18/2019 11:40:38 AM



#64
Tetrachloroethene
Concen: 8.873 ug/l
RT: 10.87 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	31528		
166	122.3		101.2	151.8
129	85.4		77.8	116.6
131	89.9		73.1	109.7





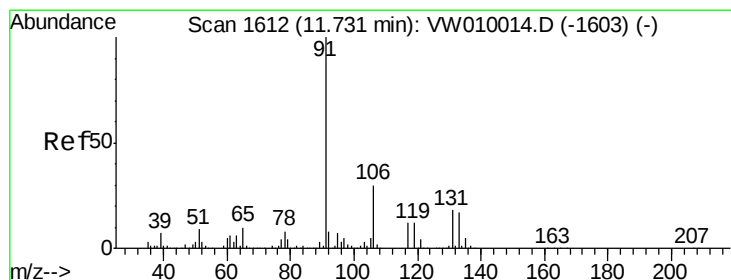
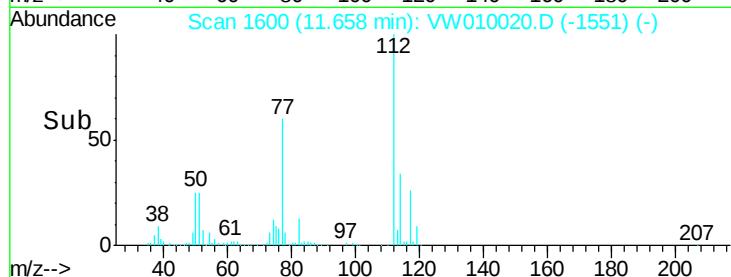
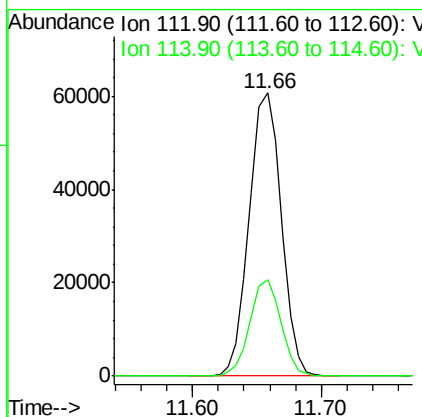
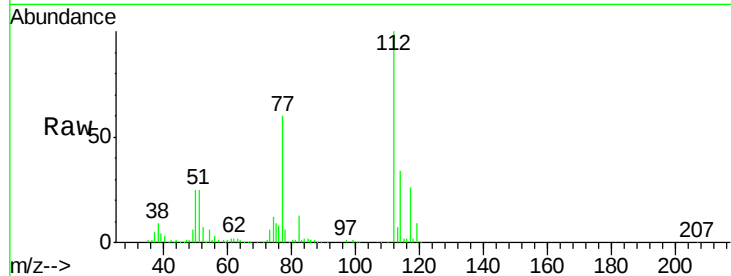
#65
Chlorobenzene
Concen: 9.361 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
112	100	104874		
114	33.9	26.5	39.7	

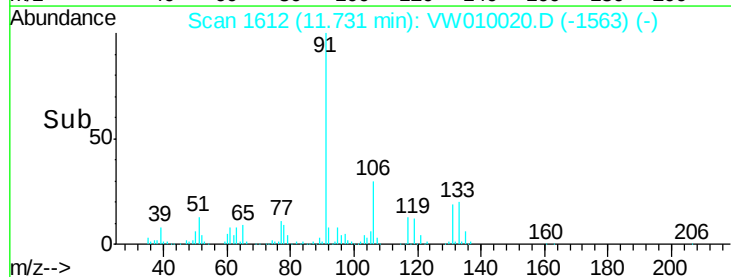
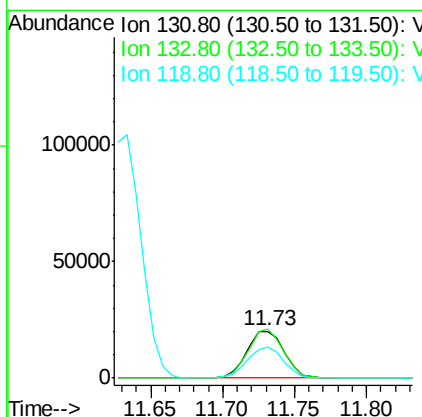
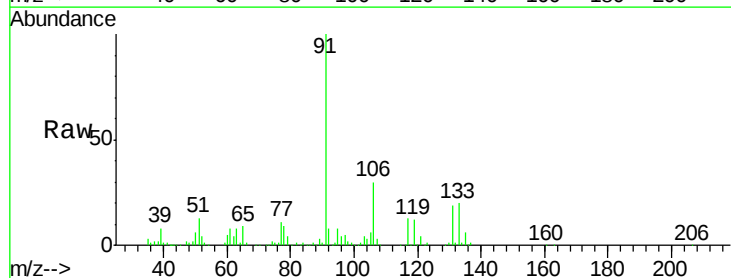
Manual Integrations
APPROVED

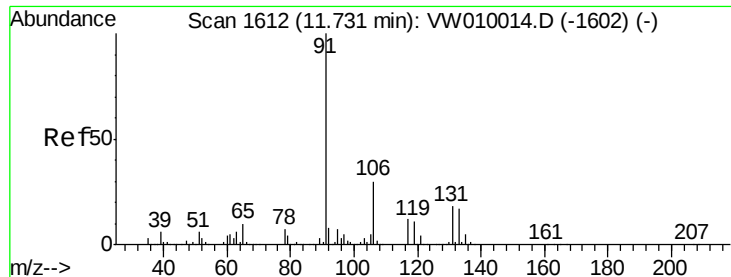
MMDadoda
4/18/2019 11:40:38 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 9.104 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	36473		
133	98.3	46.5	139.5	
119	64.3	31.9	95.5	





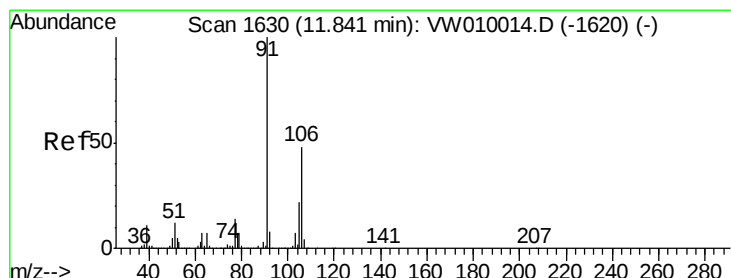
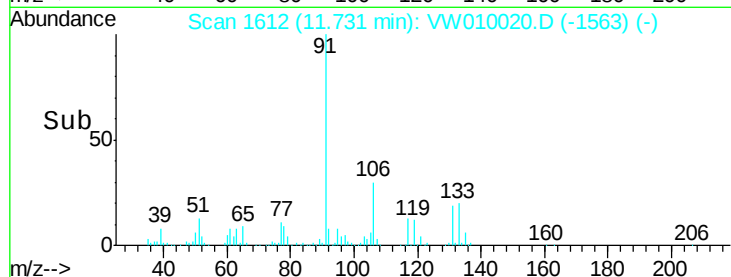
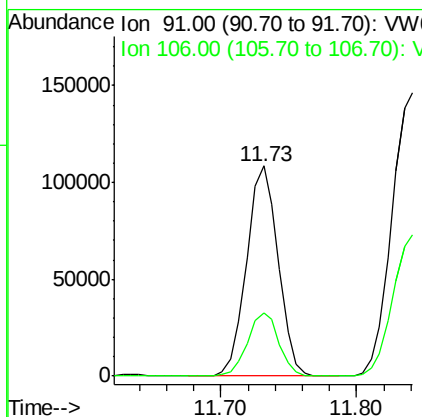
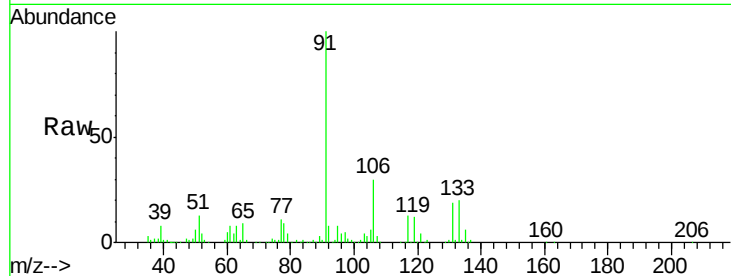
#67
Ethyl Benzene
Concen: 8.837 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion: 91 Resp: 176636
Ion Ratio Lower Upper
91 100
106 30.1 23.8 35.8

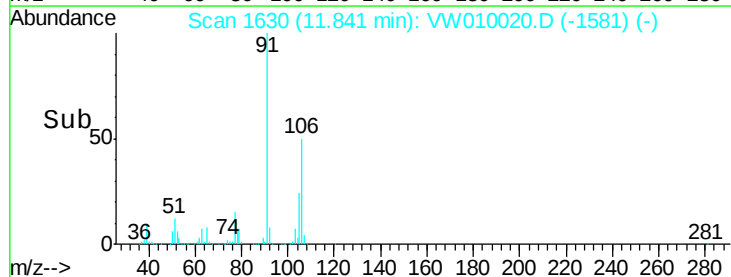
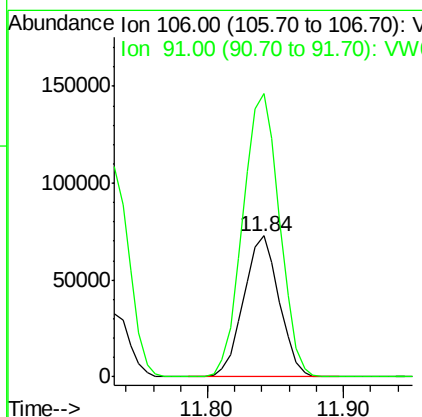
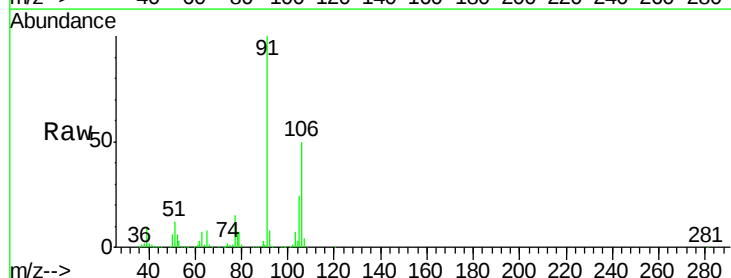
Manual Integrations
APPROVED

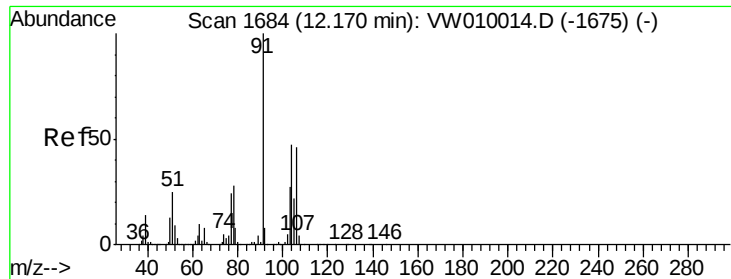
MMDadoda
4/18/2019 11:40:38 AM



#68
m/p-Xylenes
Concen: 17.839 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Tgt Ion: 106 Resp: 133282
Ion Ratio Lower Upper
106 100
91 206.9 165.0 247.6





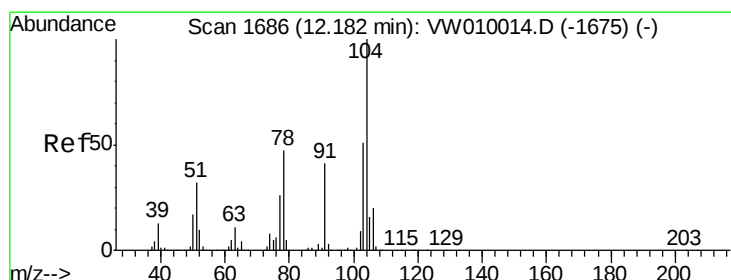
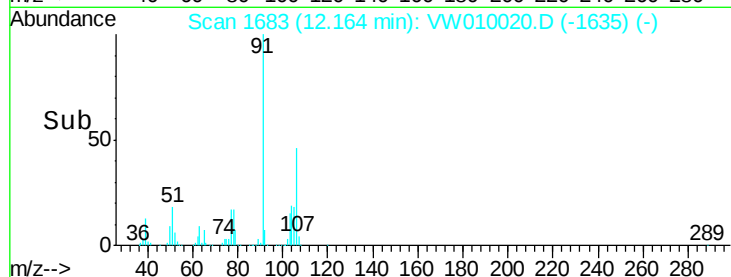
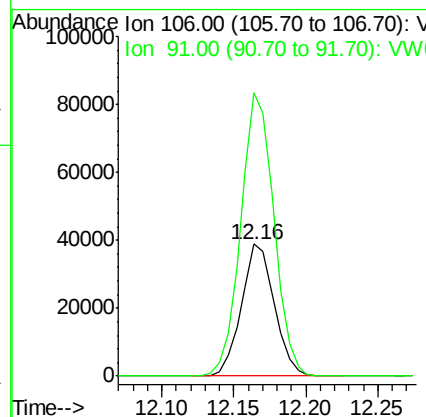
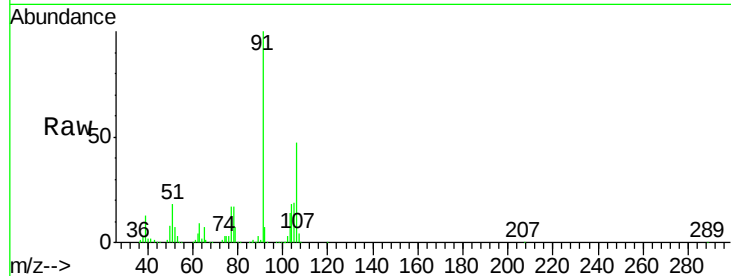
#69
o-Xylene
Concen: 9.069 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.01 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
106	100		
91	215.9	110.5	331.4

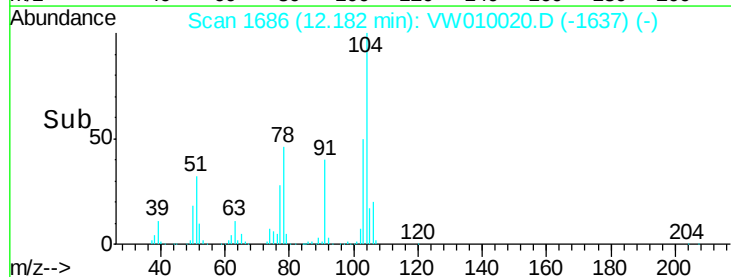
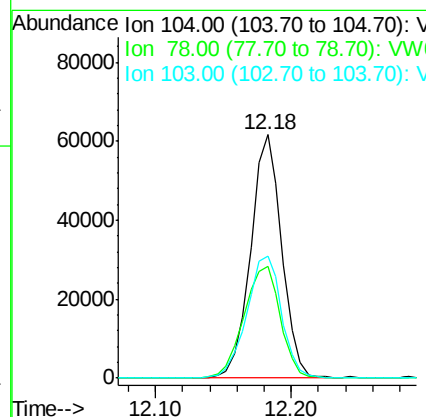
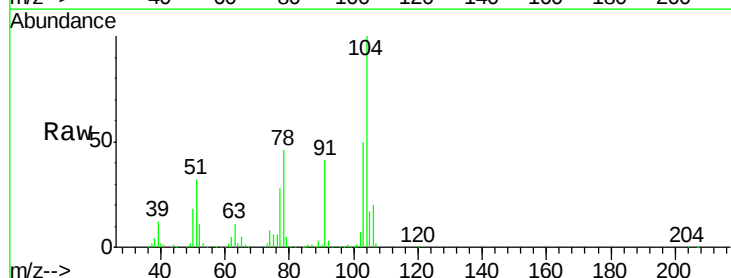
Manual Integrations
APPROVED

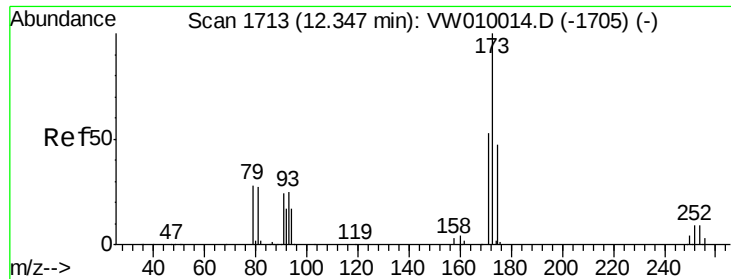
MMDadoda
4/18/2019 11:40:38 AM



#70
Styrene
Concen: 8.415 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Tgt Ion	Ratio	Lower	Upper
104	100		
78	54.2	42.5	63.7
103	56.4	43.6	65.4





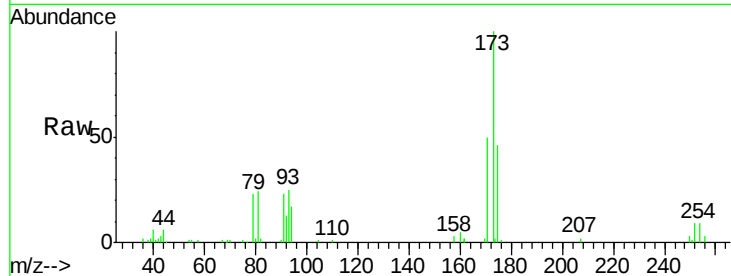
#71
Bromoform
Concen: 9.288 ug/l
RT: 12.35 min Scan# 1714
Delta R.T. 0.01 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2019

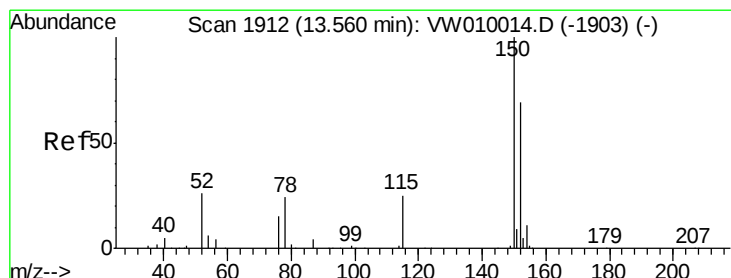
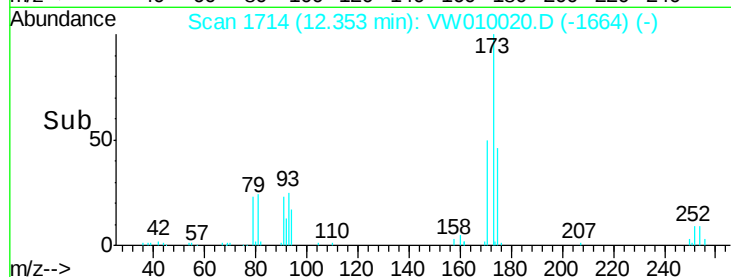
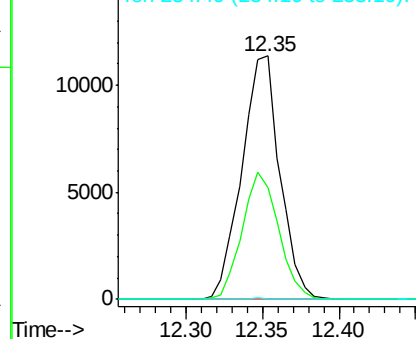
Tot Ion	Ratio	Lower	Upper
173	100		
175	49.9	23.8	71.4
254	0.1	0.1	0.1

Manual Integrations
APPROVED

MMDadoda
4/18/2019 11:40:38 AM

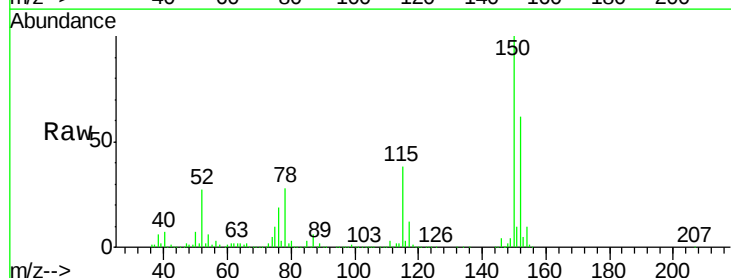


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

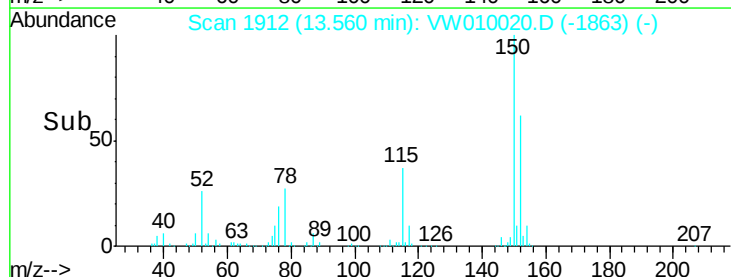
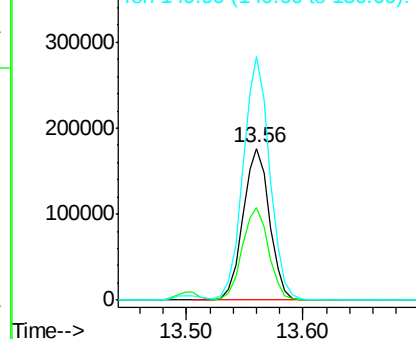


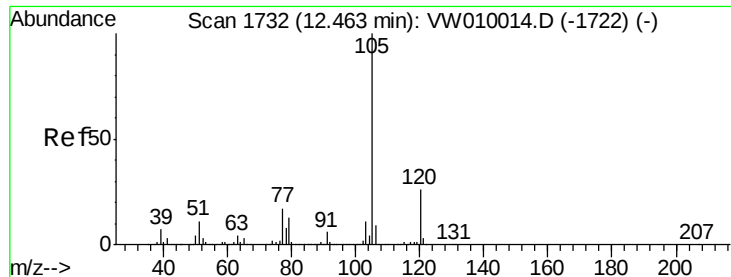
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.7	30.4	91.2
150	160.7	0.0	347.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 8.808 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion: 105 Resp: 171173

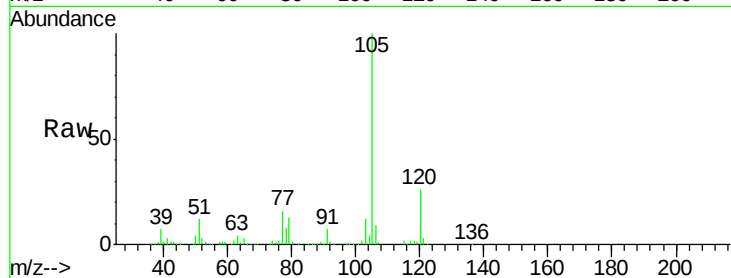
Ion Ratio Lower Upper

105 100

120 25.8 13.1 39.1

Manual Integrations
APPROVED

MMDadoda
4/18/2019 11:40:38 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.46

100000

80000

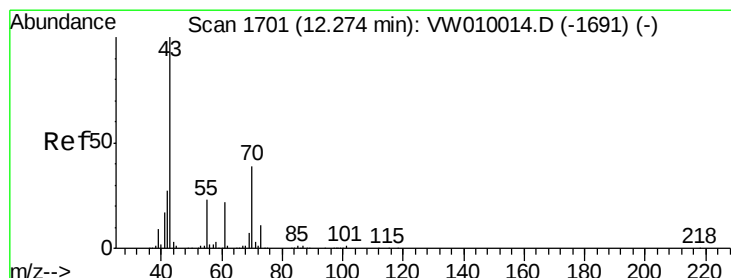
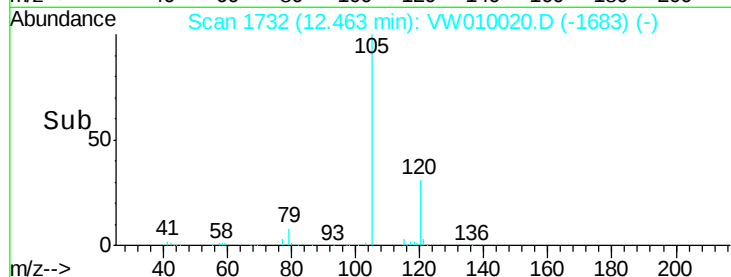
60000

40000

20000

0

Time-->



#74

N-ethyl acetate

Concen: 8.896 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

Tgt Ion: 43 Resp: 47875

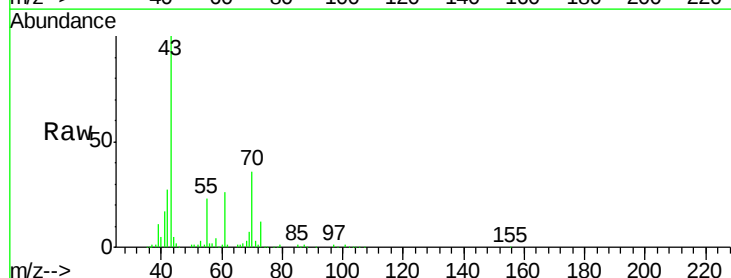
Ion Ratio Lower Upper

43 100

70 38.1 31.3 46.9

55 24.9 20.0 30.0

61 22.7 17.8 26.8



Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 70.00 (69.70 to 70.70): VV

Ion 55.00 (54.70 to 55.70): VV

Ion 61.00 (60.70 to 61.70): VV

12.27

50000

40000

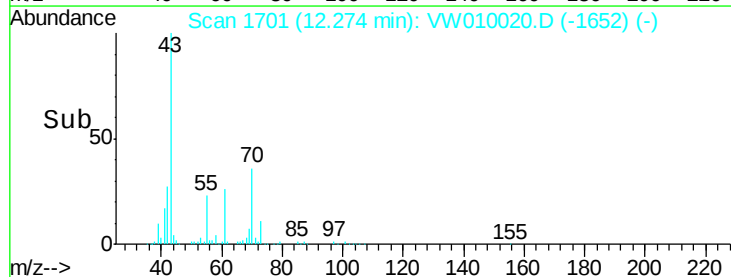
30000

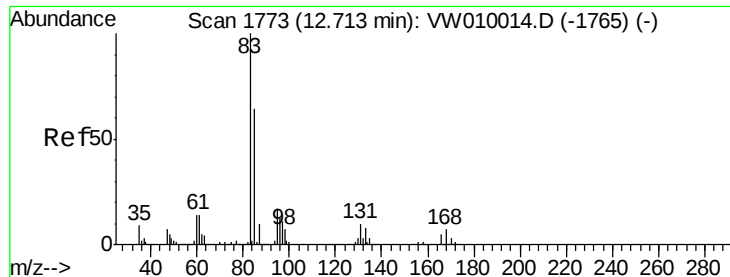
20000

10000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 9.853 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

Instrument :

MSVOA_W

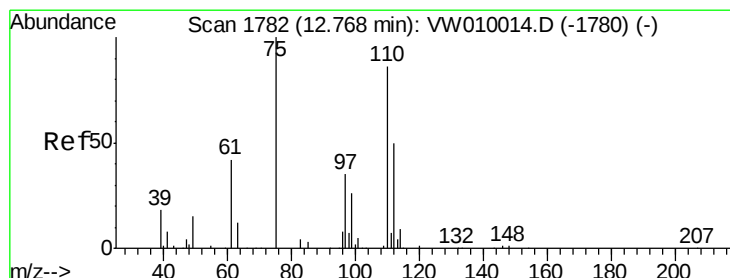
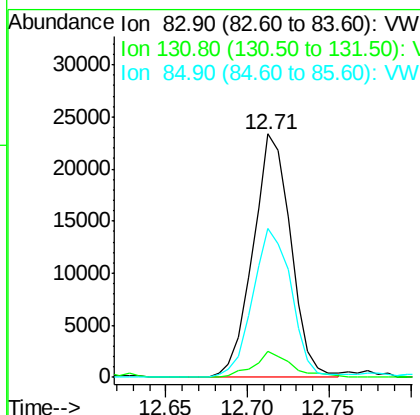
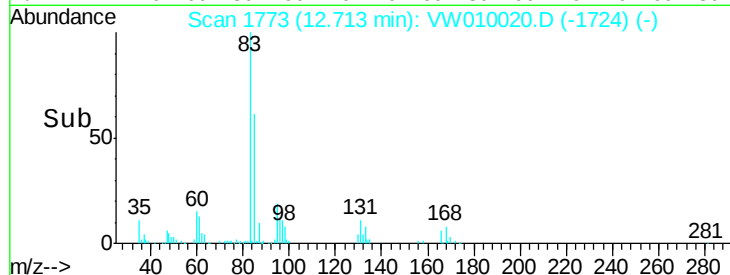
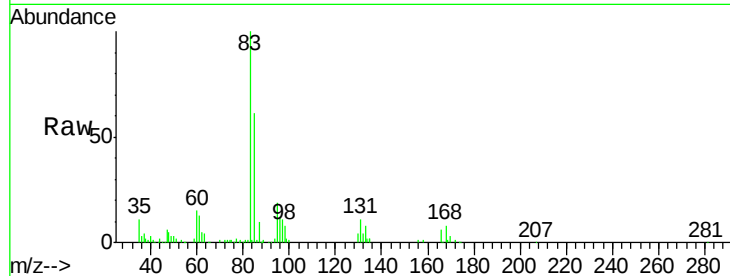
ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:	83	Resp:	37831
Ion Ratio	Lower	Upper	
83	100		
131	10.5	5.3	15.8
85	62.5	32.0	96.2

Manual Integrations
APPROVED

MMDadoda
4/18/2019 11:40:38 AM



#76

1,2,3-Trichloropropane

Concen: 11.241 ug/l m

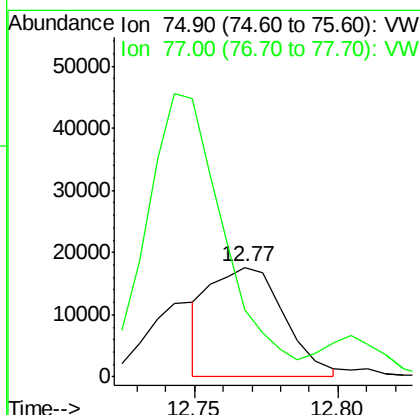
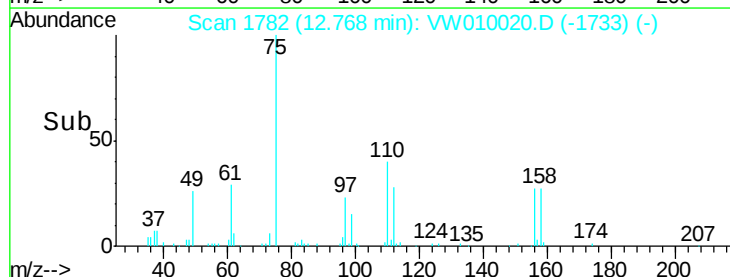
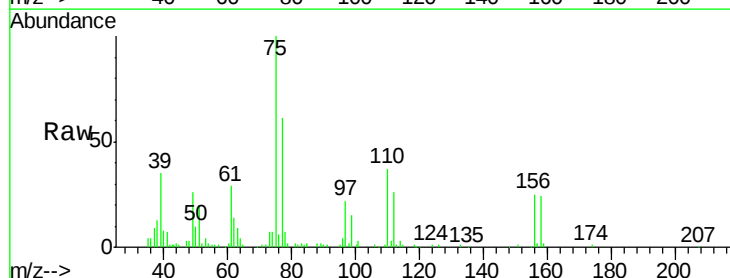
RT: 12.77 min Scan# 1782

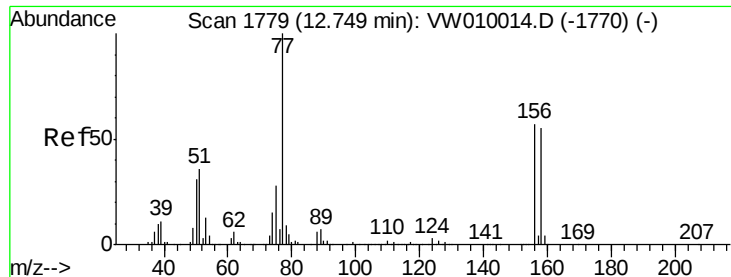
Delta R.T. -0.00 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

Tgt Ion:	75	Resp:	31415
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





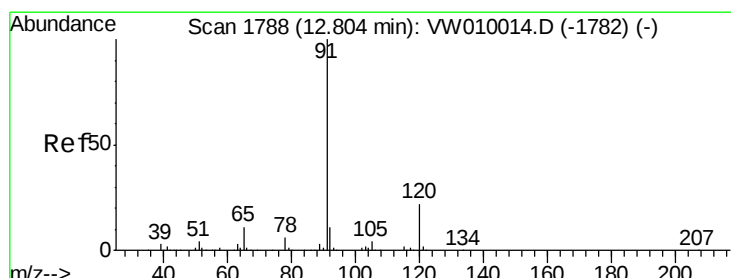
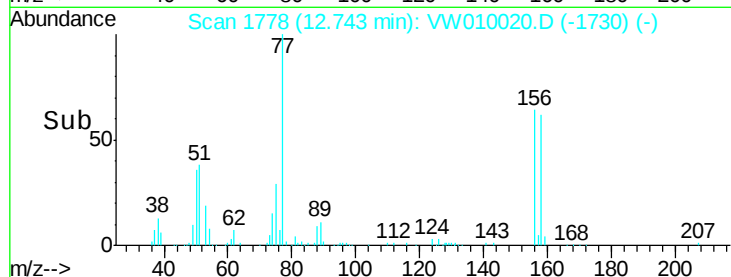
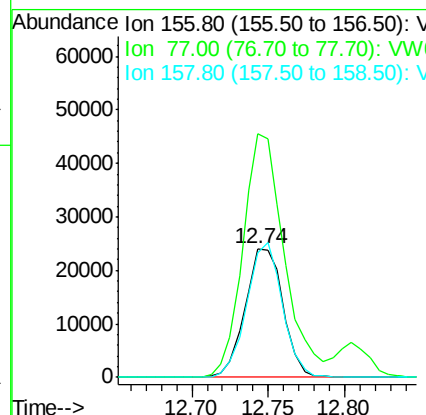
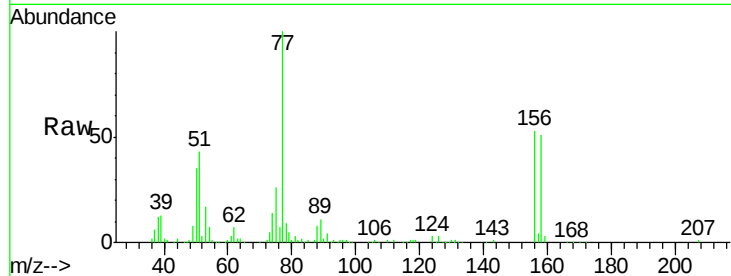
#77
Bromobenzene
Concen: 9.295 ug/l
RT: 12.74 min Scan# 1778
Delta R.T. -0.01 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	205.3	102.5	307.4	
158	97.8	48.8	146.4	

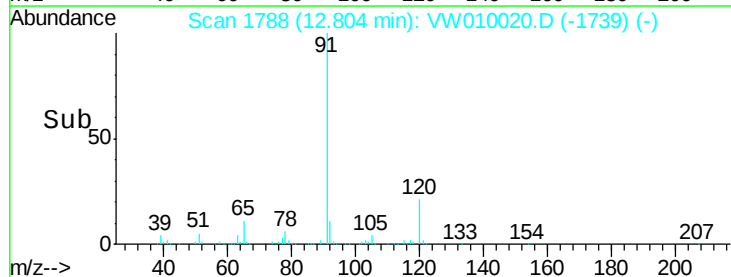
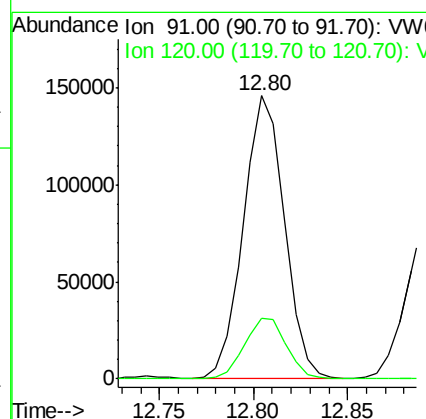
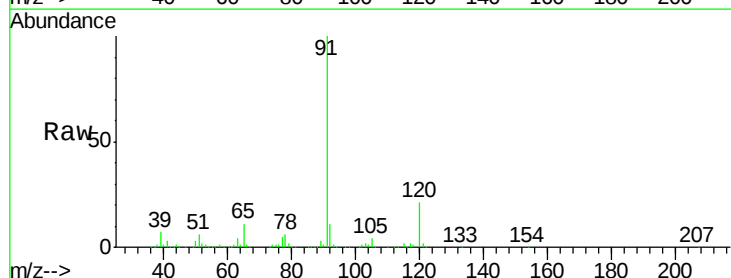
Manual Integrations
APPROVED

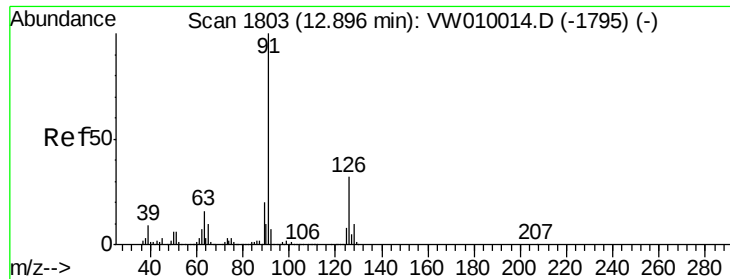
MMDadoda
4/18/2019 11:40:38 AM



#78
n-propylbenzene
Concen: 9.126 ug/l
RT: 12.80 min Scan# 1788
Delta R.T. -0.00 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	22.1	11.1	33.1	





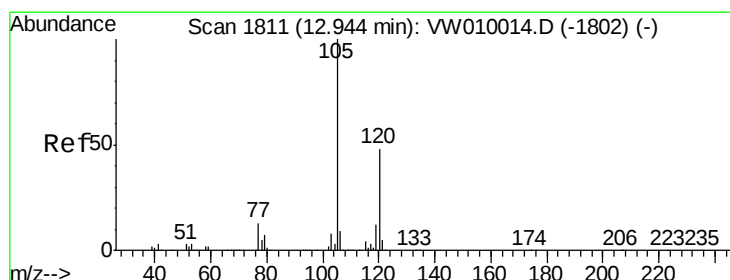
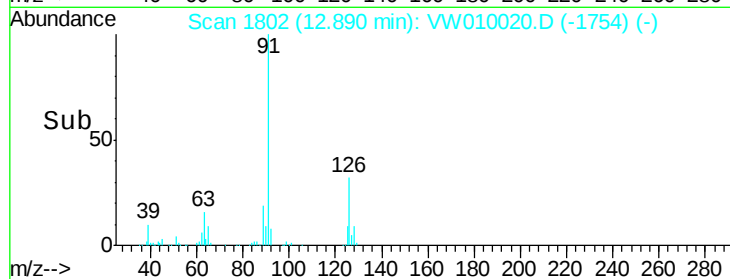
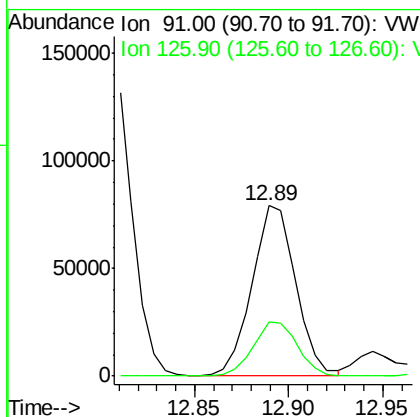
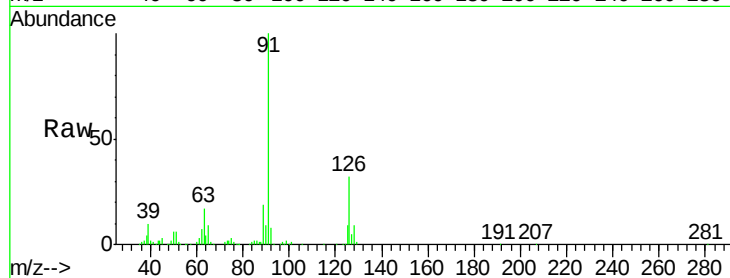
#79
2-Chlorotoluene
Concen: 9.213 ug/l
RT: 12.89 min Scan# 1802
Delta R.T. -0.01 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
91	100		
126	32.1	16.3	48.8

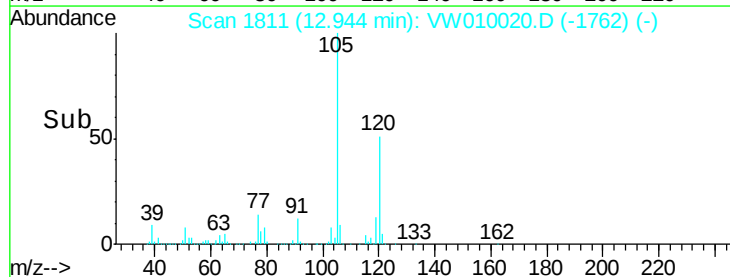
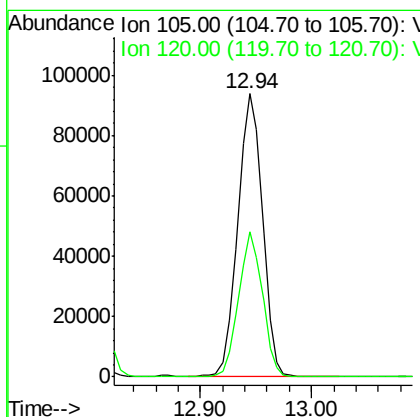
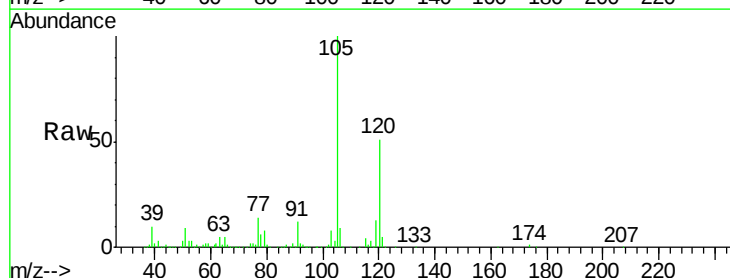
Manual Integrations
APPROVED

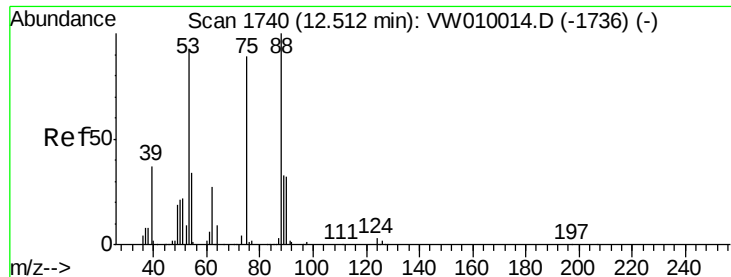
MMDadoda
4/18/2019 11:40:38 AM



#80
1,3,5-Trimethylbenzene
Concen: 8.774 ug/l
RT: 12.94 min Scan# 1811
Delta R.T. -0.00 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.4	24.3	72.8





#81

trans-1,4-Dichloro-2-butene

Concen: 8.632 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. -0.00 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

Instrument :

MSVOA_W

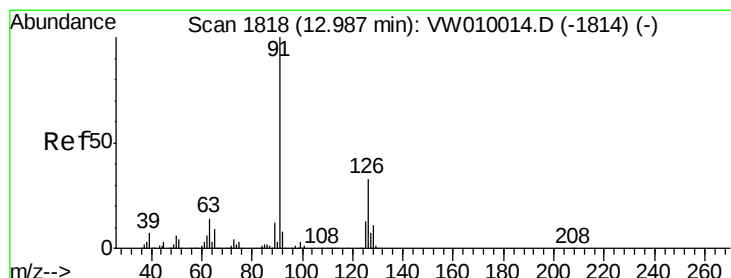
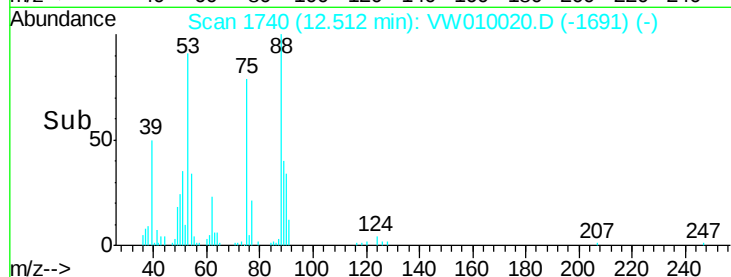
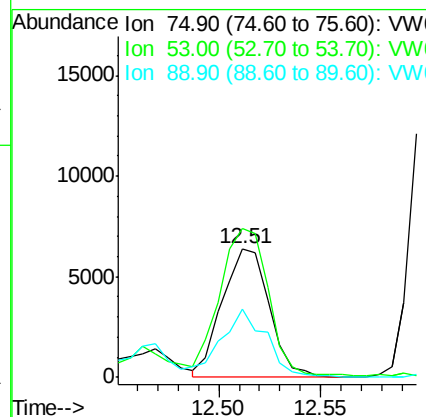
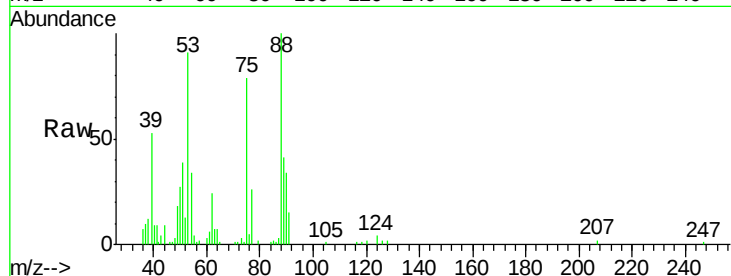
ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:	75	Resp:	10231
Ion Ratio	Lower	Upper	
75	100		
53	117.9	89.8	134.8
89	51.9	36.6	54.8

Manual Integrations
APPROVED

MMDadoda
4/18/2019 11:40:38 AM



#82

4-Chlorotoluene

Concen: 9.170 ug/l

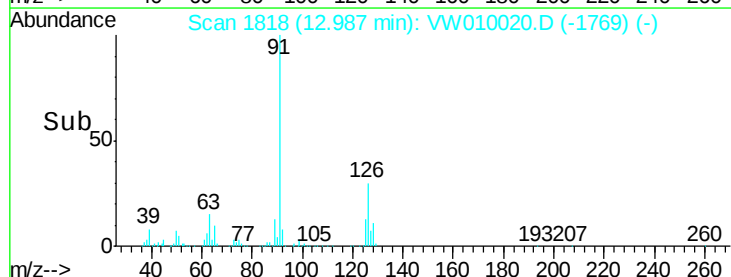
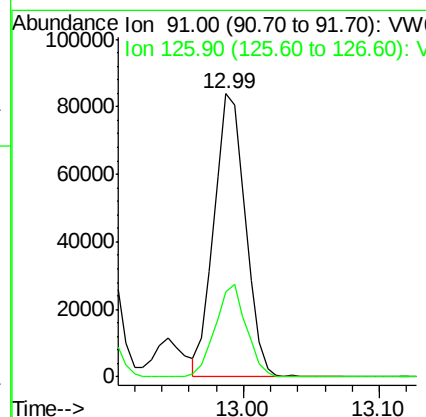
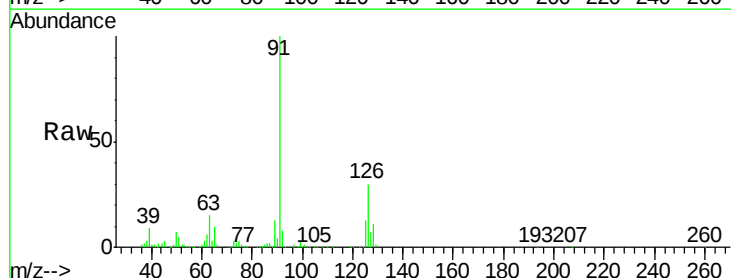
RT: 12.99 min Scan# 1818

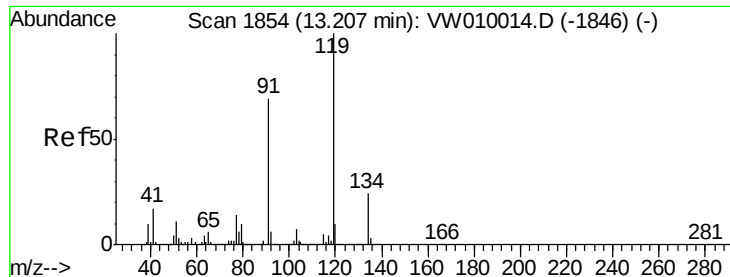
Delta R.T. -0.00 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

Tgt Ion:	91	Resp:	133694
Ion Ratio	Lower	Upper	
91	100		
126	32.4	16.4	49.1





#83

tert-Butylbenzene

Concen: 8.956 ug/l

RT: 13.21 min Scan# 1854

Delta R.T. -0.00 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

Instrument :

MSVOA_W

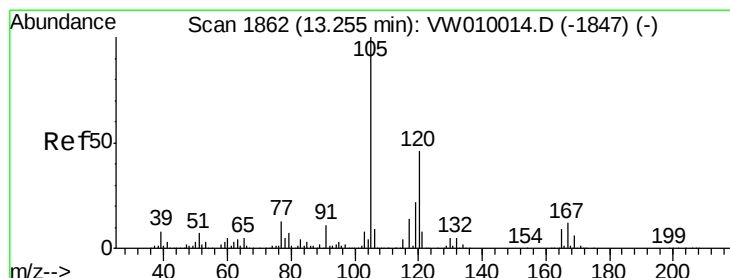
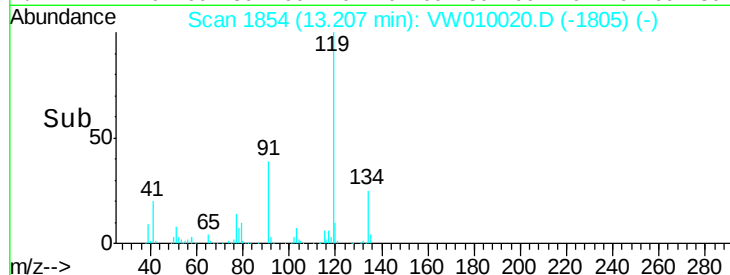
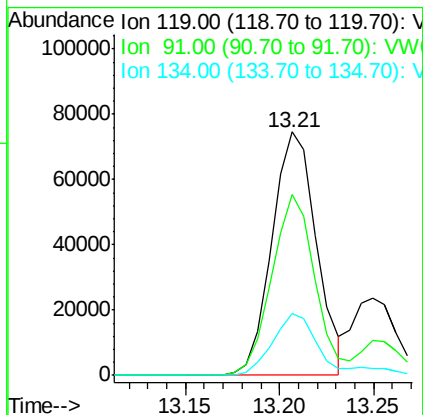
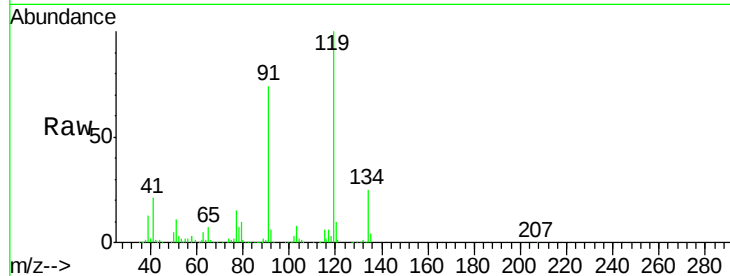
ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:	119	Resp:	122212
Ion Ratio	Lower	Upper	
119	100		
91	72.4	34.8	104.4
134	25.0	13.7	41.1

Manual Integrations
APPROVED

MMDadoda
4/18/2019 11:40:38 AM



#84

1,2,4-Trimethylbenzene

Concen: 8.890 ug/l

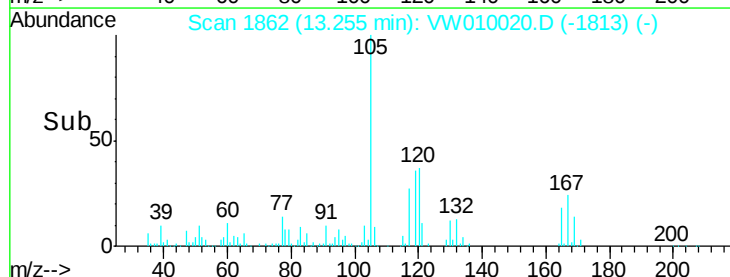
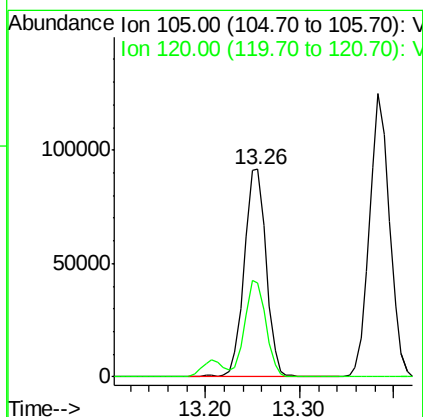
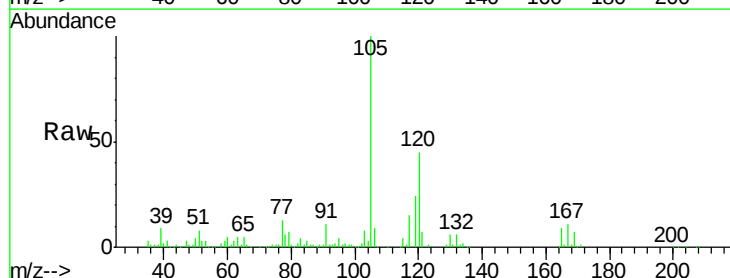
RT: 13.26 min Scan# 1862

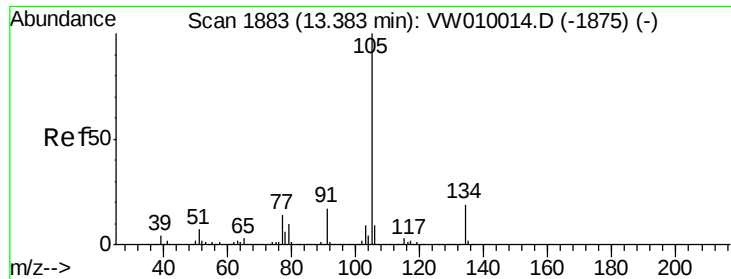
Delta R.T. -0.00 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

Tgt Ion:	105	Resp:	148524
Ion Ratio	Lower	Upper	
105	100		
120	44.5	22.6	67.7





#85

sec-Butylbenzene

Concen: 9.090 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. -0.00 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:105 Resp: 185358

Ion Ratio Lower Upper

105 100

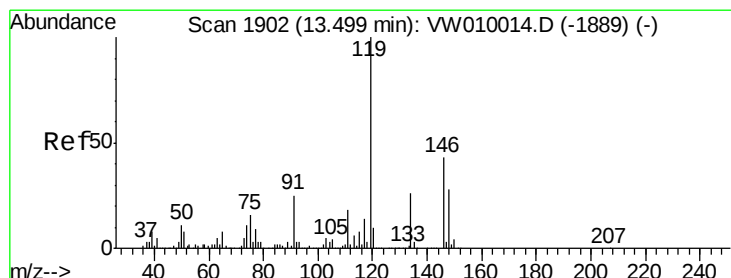
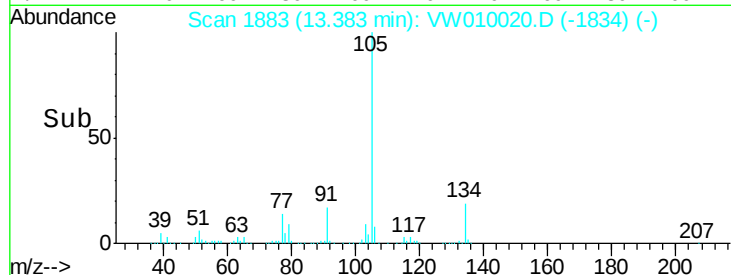
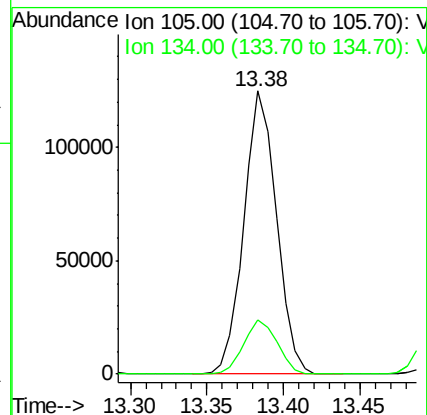
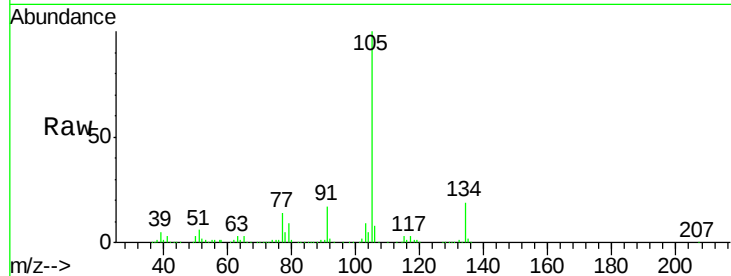
134 19.7 9.8 29.5

Manual Integrations

APPROVED

MMDadoda

4/18/2019 11:40:38 AM



#86

p-Isopropyltoluene

Concen: 8.801 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

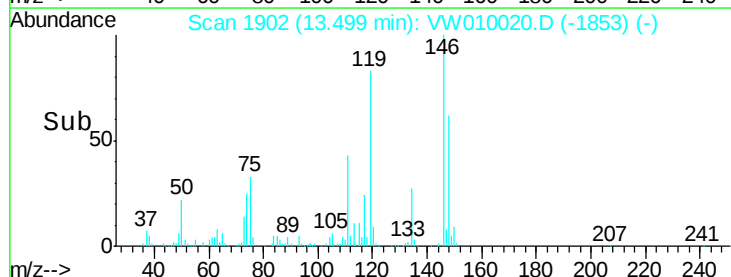
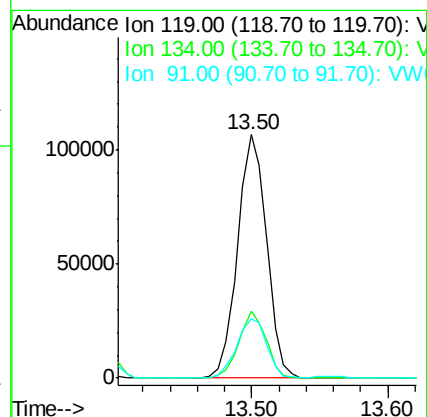
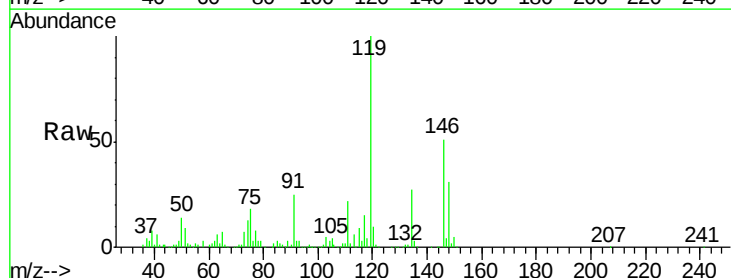
Tgt Ion:119 Resp: 158176

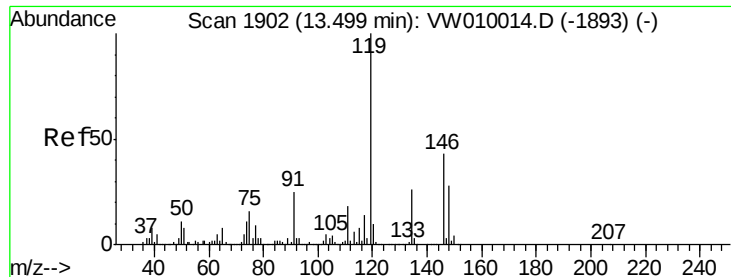
Ion Ratio Lower Upper

119 100

134 25.7 13.0 38.9

91 25.4 12.3 36.9





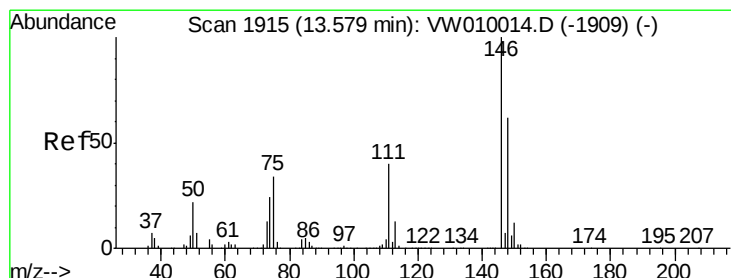
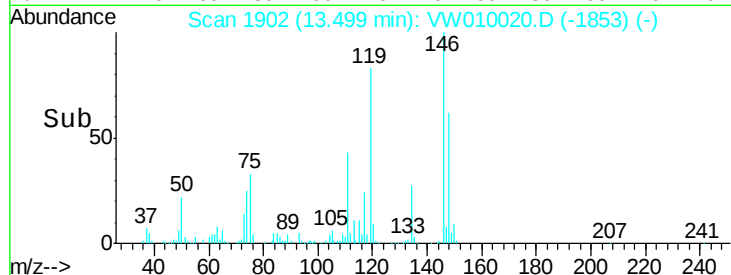
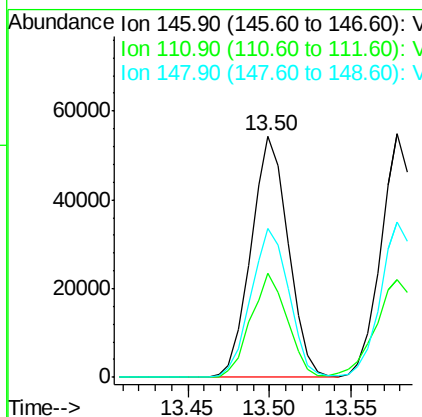
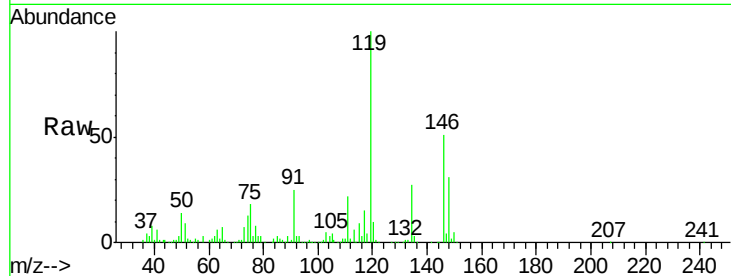
#87
 1,3-Dichlorobenzene
 Concen: 9.543 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW010020.D
 Acq: 17 Apr 2019 17:07

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.3	20.3	61.0
148	63.0	32.0	96.2

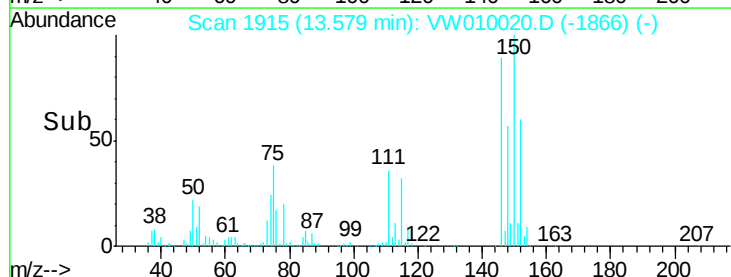
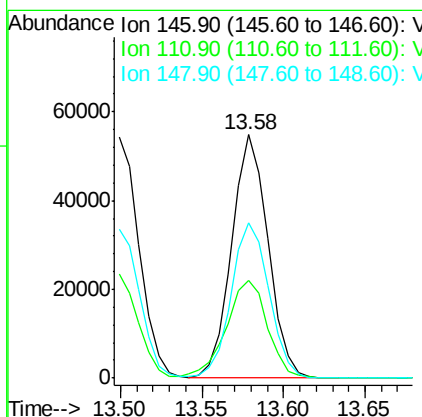
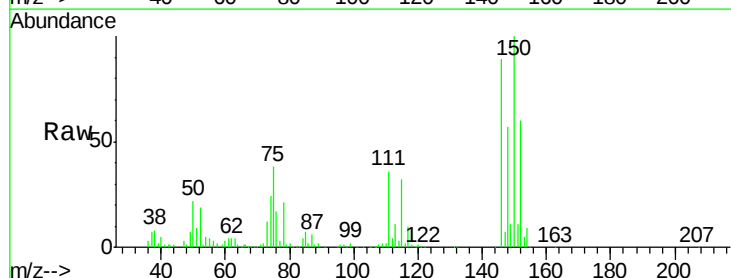
Manual Integrations
 APPROVED

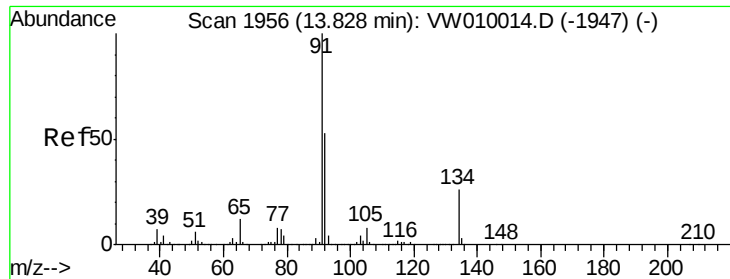
MMDadoda
 4/18/2019 11:40:38 AM



#88
 1,4-Dichlorobenzene
 Concen: 9.473 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW010020.D
 Acq: 17 Apr 2019 17:07

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.3	20.1	60.3
148	66.1	31.8	95.3





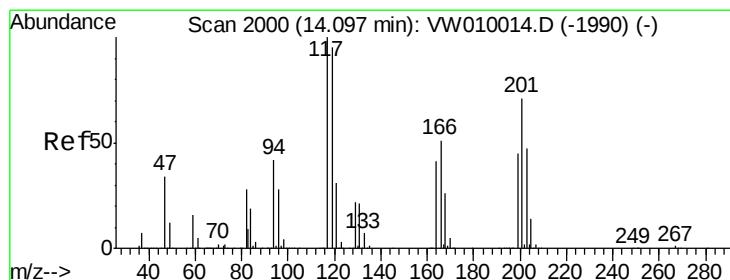
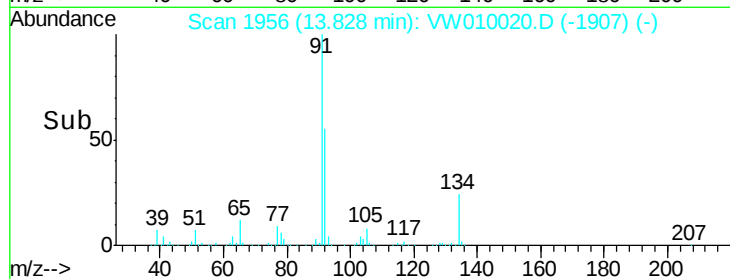
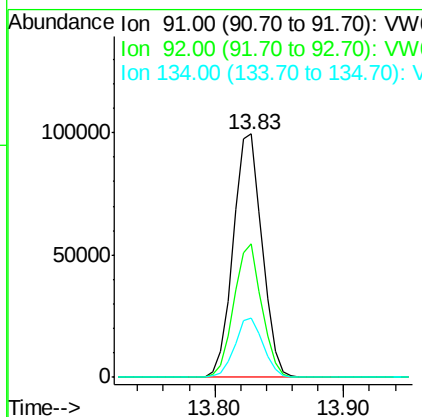
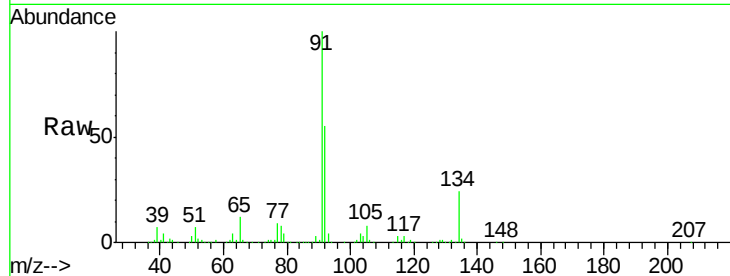
#89
n-Butylbenzene
Concen: 8.705 ug/l
RT: 13.83 min Scan# 1956
Delta R.T. -0.00 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
91	100	154997		
92	52.8		26.5	79.4
134	23.9		12.4	37.0

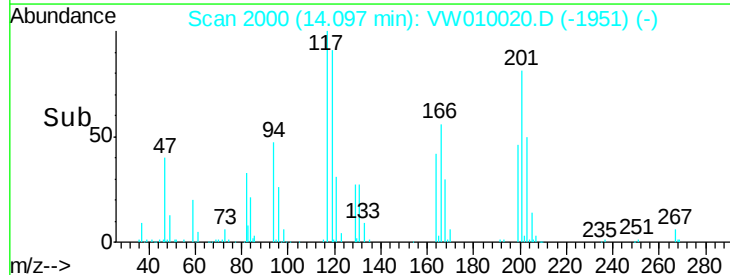
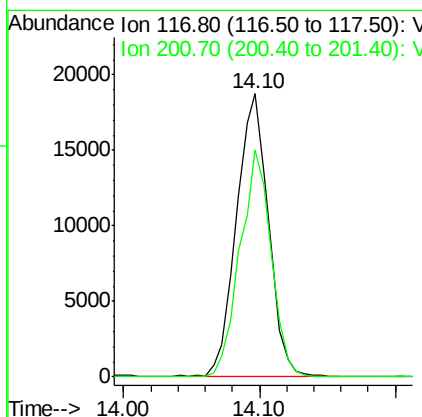
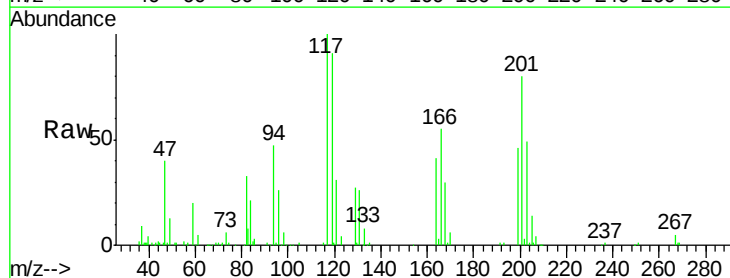
Manual Integrations
APPROVED

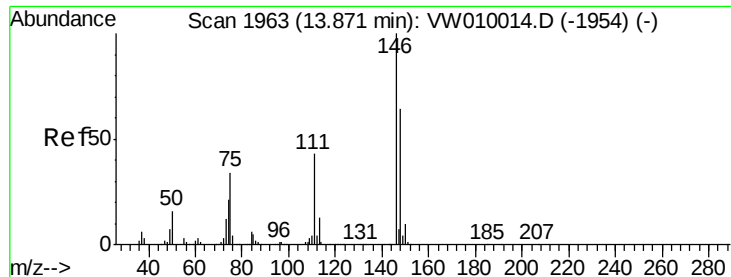
MMDadoda
4/18/2019 11:40:38 AM



#90
Hexachloroethane
Concen: 8.925 ug/l
RT: 14.10 min Scan# 2000
Delta R.T. -0.00 min
Lab File: VW010020.D
Acq: 17 Apr 2019 17:07

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	30725		
201	78.0		36.1	108.3





#91

1,2-Dichlorobenzene

Concen: 9.308 ug/l

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

Instrument :

MSVOA_W

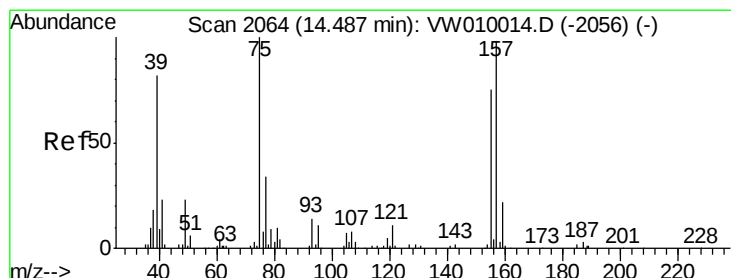
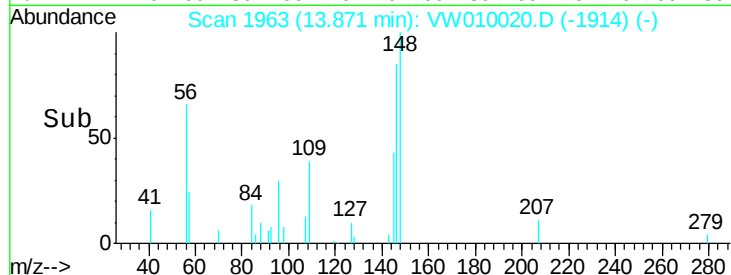
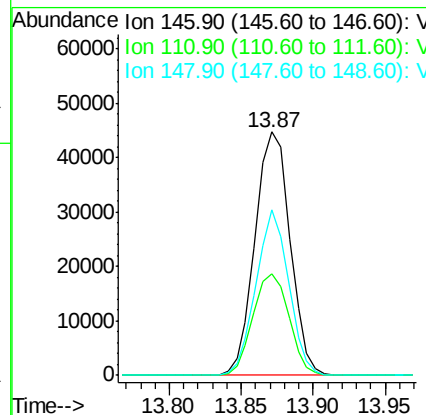
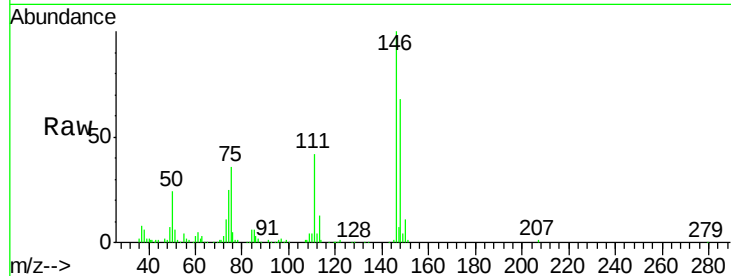
ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:	146	Resp:	75401
Ion Ratio	Lower	Upper	
146	100		
111	42.9	20.9	62.8
148	63.4	31.9	95.7

Manual Integrations
APPROVED

MMDadoda
4/18/2019 11:40:38 AM



#92

1,2-Dibromo-3-Chloropropane

Concen: 10.227 ug/l

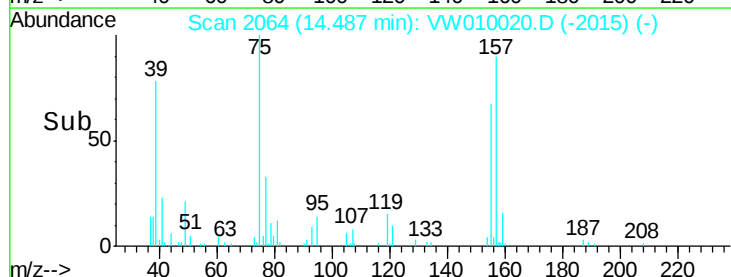
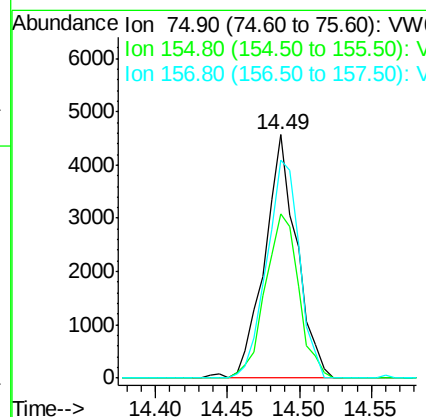
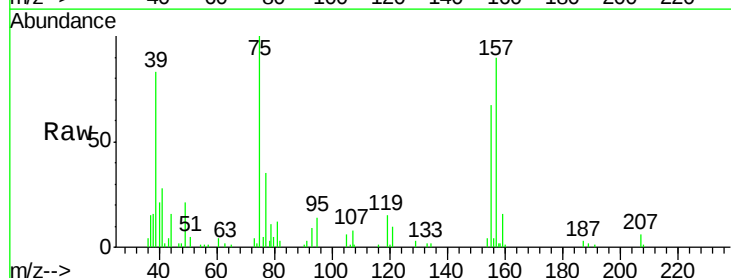
RT: 14.49 min Scan# 2064

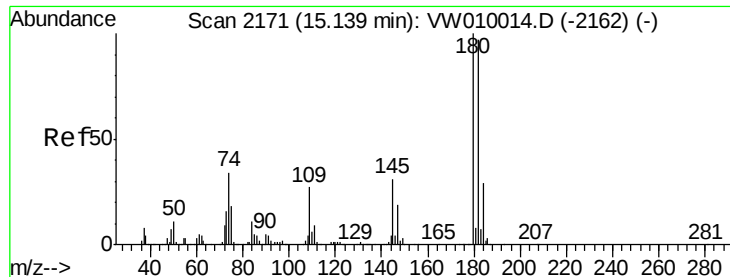
Delta R.T. -0.00 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

Tgt Ion:	75	Resp:	7027
Ion Ratio	Lower	Upper	
75	100		
155	70.1	37.1	111.5
157	91.6	47.3	141.9





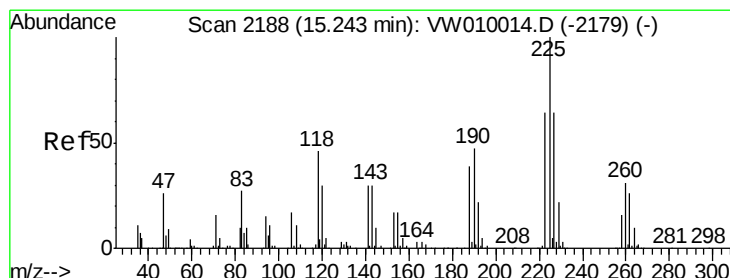
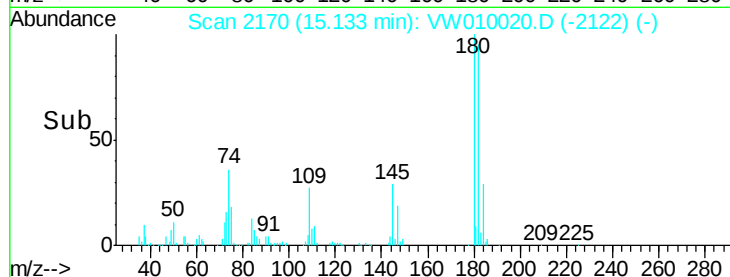
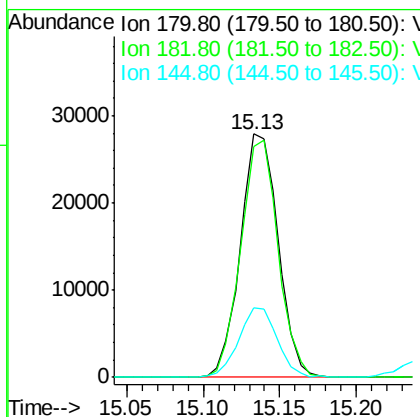
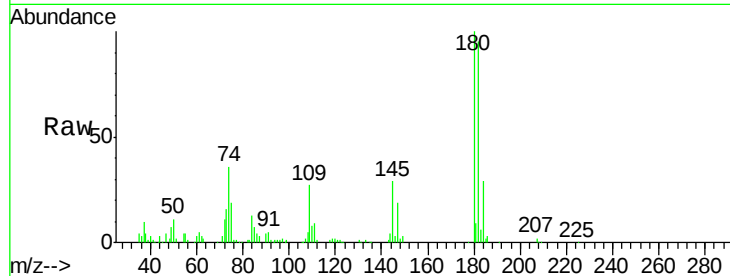
#93
 1,2,4-Trichlorobenzene
 Concen: 8.975 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.01 min
 Lab File: VW010020.D
 Acq: 17 Apr 2019 17:07

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
180	100	47968		
182	95.9		47.1	141.4
145	29.0		15.2	45.6

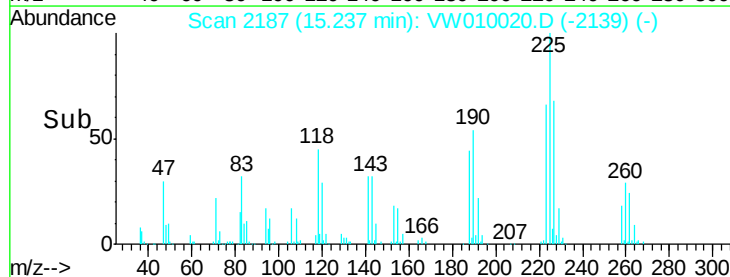
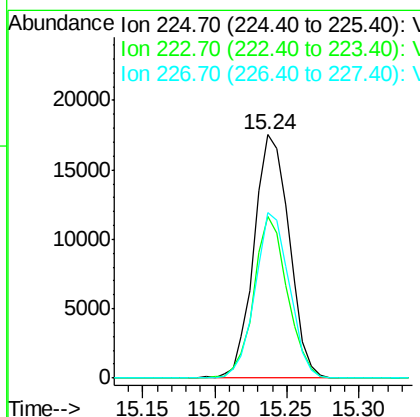
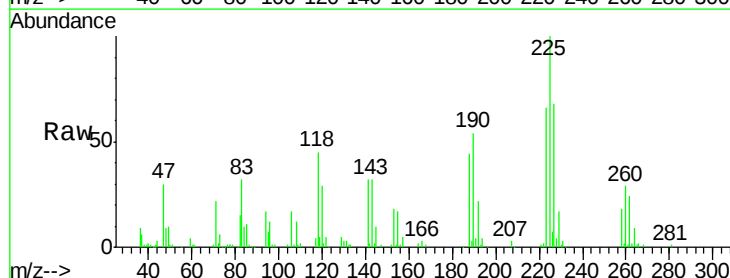
Manual Integrations
 APPROVED

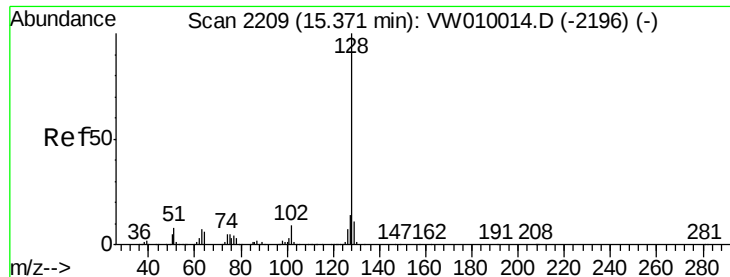
MMDadoda
 4/18/2019 11:40:38 AM



#94
 Hexachlorobutadiene
 Concen: 9.139 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. -0.01 min
 Lab File: VW010020.D
 Acq: 17 Apr 2019 17:07

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	29661		
223	63.2		31.9	95.5
227	65.8		31.8	95.3





#95

Naphthalene

Concen: 10.156 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

Instrument :

MSVOA_W

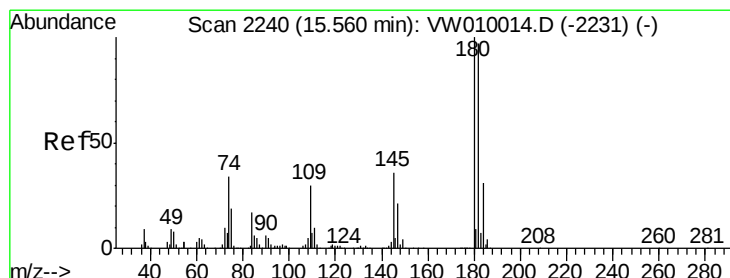
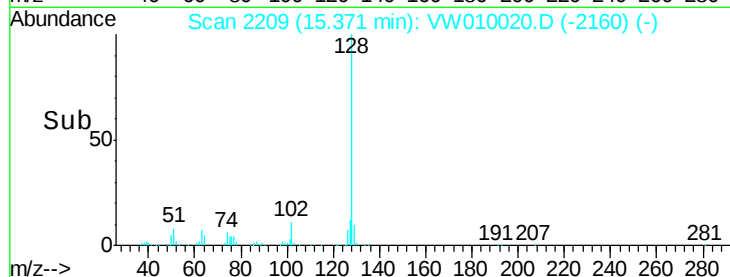
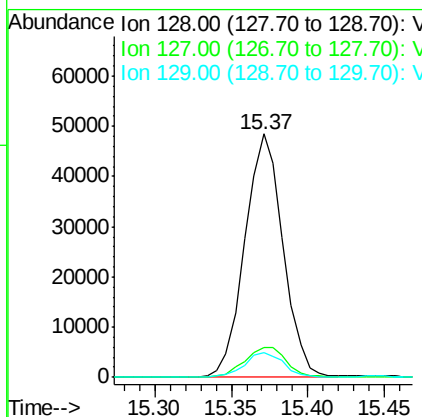
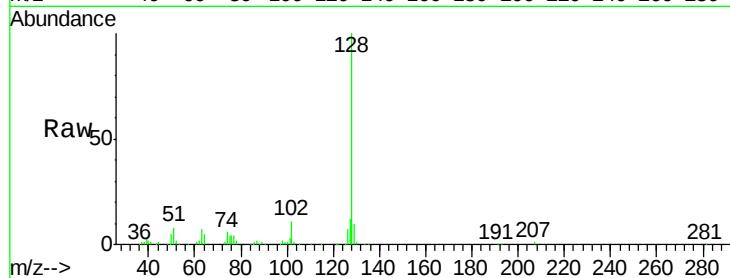
ClientSampleId :

LOQ-SOIL-02-QT2-2019

Tot Ion:	128	Resp:	84197
Ion Ratio	Lower	Upper	
128	100		
127	13.4	10.6	15.8
129	10.3	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
4/18/2019 11:40:38 AM



#96

1,2,3-Trichlorobenzene

Concen: 9.294 ug/l

RT: 15.56 min Scan# 2240

Delta R.T. -0.00 min

Lab File: VW010020.D

Acq: 17 Apr 2019 17:07

Tgt Ion:	180	Resp:	43094
Ion Ratio	Lower	Upper	
180	100		
182	95.9	47.8	143.3
145	33.3	16.4	49.2

