

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW070819\
 Data File : VW011166.D
 Acq On : 08 Jul 2019 17:40
 Operator : SY/VA
 Sample : K3591-01LOD4PPB
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2019

Manual Integrations
 APPROVED

MMDadoda
 7/9/2019 4:13:24 PM

Quant Time: Jul 09 07:18:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W070819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 09 07:10:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	233971	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	396673	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	354154	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	173983	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	134154	45.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.26%	
35) Dibromofluoromethane	7.88	113	103157	43.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.26%	
50) Toluene-d8	10.32	98	414779	43.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.80%	
62) 4-Bromofluorobenzene	12.62	95	152701	43.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.18%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.00	85	6066	3.476	ug/l	95
3) Chloromethane	2.20	50	9553	4.249	ug/l	91
4) Vinyl Chloride	2.36	62	11594	3.940	ug/l	97
5) Bromomethane	2.77	94	6291	4.254	ug/l	100
6) Chloroethane	2.92	64	6113	3.856	ug/l	99
7) Trichlorofluoromethane	3.24	101	3175	3.037	ug/l #	80
8) Diethyl Ether	3.68	74	5816	4.021	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	4.06	101	10323	4.122	ug/l	97
10) Methyl Iodide	4.27	142	12884	3.741	ug/l	97
11) Tert butyl alcohol	5.17	59	4761	21.873	ug/l	98
12) 1,1-Dichloroethene	4.03	96	10237	3.939	ug/l	82
13) Acrolein	3.89	56	3519	20.303	ug/l	90
14) Allyl chloride	4.65	41	16566	3.495	ug/l	99
15) Acrylonitrile	5.37	53	14365	19.498	ug/l	98
16) Acetone	4.12	43	14382	20.331	ug/l	98
17) Carbon Disulfide	4.38	76	27627	3.506	ug/l	97
18) Methyl Acetate	4.67	43	12595	5.693	ug/l	98
19) Methyl tert-butyl Ether	5.42	73	16503	4.185	ug/l	97
20) Methylene Chloride	4.92	84	14527	5.206	ug/l	92
21) trans-1,2-Dichloroethene	5.42	96	10843	4.015	ug/l	92
22) Diisopropyl ether	6.31	45	39877	3.912	ug/l	93
23) Vinyl Acetate	6.25	43	101902	16.152	ug/l	100
24) 1,1-Dichloroethane	6.21	63	21297	3.978	ug/l	100
25) 2-Butanone	7.17	43	21896	19.719	ug/l	95
26) 2,2-Dichloropropane	7.17	77	10375	3.728	ug/l	97
27) cis-1,2-Dichloroethene	7.16	96	11556	3.967	ug/l	99
28) Bromochloromethane	7.51	49	11073	4.549	ug/l	98
29) Tetrahydrofuran	7.53	42	15018	20.626	ug/l	98
30) Chloroform	7.67	83	20735	4.183	ug/l	96
31) Cyclohexane	7.95	56	26927	4.728	ug/l #	77
32) 1,1,1-Trichloroethane	7.87	97	14361	3.808	ug/l	97
36) 1,1-Dichloropropene	8.07	75	16566	3.922	ug/l	99
37) Ethyl Acetate	7.25	43	9970	3.928	ug/l	96
38) Carbon Tetrachloride	8.06	117	12965	3.621	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW070819\
 Data File : VW011166.D
 Acq On : 08 Jul 2019 17:40
 Operator : SY/VA
 Sample : K3591-01LOD4PPB
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2019

Manual Integrations
 APPROVED

MMDadoda
 7/9/2019 4:13:24 PM

Quant Time: Jul 09 07:18:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W070819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 09 07:10:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	19509	3.810	ug/l	96
40) Benzene	8.32	78	46594	3.991	ug/l	100
41) Methacrylonitrile	7.48	41	6736	4.640	ug/l	88
42) 1,2-Dichloroethane	8.40	62	15466	4.084	ug/l	100
43) Isopropyl Acetate	8.42	43	18539	3.869	ug/l	97
44) Trichloroethene	9.09	130	10762	3.831	ug/l	99
45) 1,2-Dichloropropane	9.37	63	12099	3.827	ug/l	98
46) Dibromomethane	9.46	93	5747	3.870	ug/l	98
47) Bromodichloromethane	9.64	83	14080	3.706	ug/l	99
48) Methyl methacrylate	9.44	41	8324	3.611	ug/l	94
49) 1,4-Dioxane	9.44	88	1714	69.148	ug/l #	73
51) 4-Methyl-2-Pentanone	10.21	43	47729	19.068	ug/l	99
52) Toluene	10.38	92	27499	3.883	ug/l	99
53) t-1,3-Dichloropropene	10.60	75	13801	3.412	ug/l	94
54) cis-1,3-Dichloropropene	10.07	75	17408	3.657	ug/l	93
55) 1,1,2-Trichloroethane	10.79	97	8427	4.000	ug/l	95
56) Ethyl methacrylate	10.64	69	11452	3.570	ug/l	92
57) 1,3-Dichloropropane	10.93	76	16035	4.025	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.92	63	28900	19.435	ug/l	98
59) 2-Hexanone	10.97	43	31651	18.233	ug/l	99
60) Dibromochloromethane	11.13	129	8316	3.600	ug/l	99
61) 1,2-Dibromoethane	11.23	107	7839	3.928	ug/l	99
64) Tetrachloroethene	10.86	164	9798	4.100	ug/l	97
65) Chlorobenzene	11.66	112	28752	3.993	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.73	131	9634	3.800	ug/l	95
67) Ethyl Benzene	11.73	91	51994	3.772	ug/l	94
68) m/p-Xylenes	11.84	106	38008	7.620	ug/l	98
69) o-Xylene	12.16	106	17823	3.791	ug/l	99
70) Styrene	12.18	104	29363	3.619	ug/l	99
71) Bromoform	12.35	173	4660	3.457	ug/l #	97
73) Isopropylbenzene	12.46	105	49102	3.775	ug/l	100
74) N-amyl acetate	12.27	43	16157	3.567	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.71	83	10345	3.880	ug/l	99
76) 1,2,3-Trichloropropane	12.77	75	8599m	4.277	ug/l	
77) Bromobenzene	12.75	156	11520	3.947	ug/l	100
78) n-propylbenzene	12.80	91	60366	3.768	ug/l	100
79) 2-Chlorotoluene	12.89	91	35786	3.882	ug/l	100
80) 1,3,5-Trimethylbenzene	12.94	105	41286	3.737	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.51	75	2685	3.020	ug/l	92
82) 4-Chlorotoluene	12.99	91	37134	3.867	ug/l	99
83) tert-Butylbenzene	13.21	119	34365	3.729	ug/l	97
84) 1,2,4-Trimethylbenzene	13.25	105	41369	3.729	ug/l	98
85) sec-Butylbenzene	13.38	105	50063	3.765	ug/l	100
86) p-Isopropyltoluene	13.50	119	44770	3.754	ug/l	98
87) 1,3-Dichlorobenzene	13.50	146	21944	3.908	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	22710	4.016	ug/l	89
89) n-Butylbenzene	13.82	91	44958	3.779	ug/l	99
90) Hexachloroethane	14.10	117	7763	3.562	ug/l	95
91) 1,2-Dichlorobenzene	13.87	146	19973	3.920	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.49	75	1651	3.491	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW070819\
Data File : VW011166.D
Acq On : 08 Jul 2019 17:40
Operator : SY/VA
Sample : K3591-01LOD4PPB
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

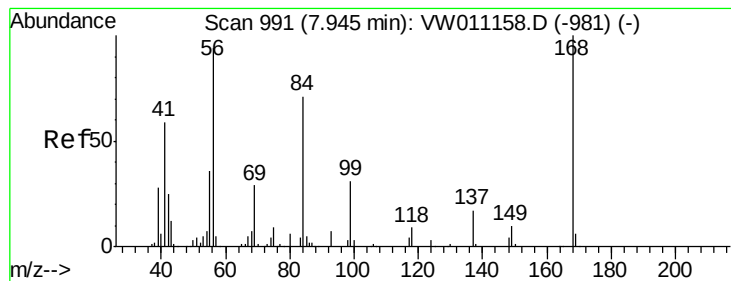
Manual Integrations
APPROVED

MMDadoda
7/9/2019 4:13:24 PM

Quant Time: Jul 09 07:18:30 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W070819S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 09 07:10:47 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	13559	3.864	ug/l	99
94) Hexachlorobutadiene	15.24	225	8663	4.021	ug/l	99
95) Naphthalene	15.37	128	23364	3.475	ug/l	99
96) 1,2,3-Trichlorobenzene	15.56	180	12482	4.030	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion:168 Resp: 233971

Ion Ratio Lower Upper

168 100

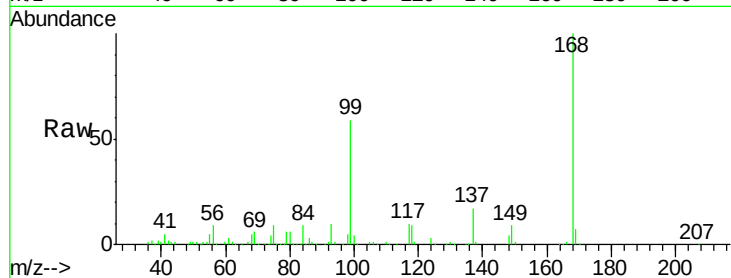
99 59.2 50.1 75.1

Manual Integrations

APPROVED

MMDadoda

7/9/2019 4:13:24 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

60000

40000

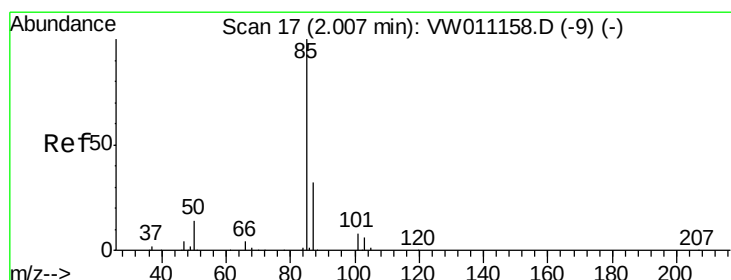
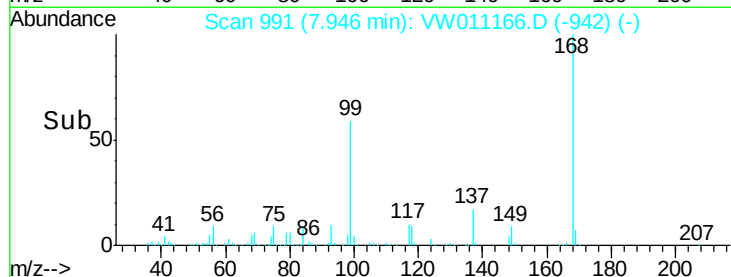
20000

0

7.90

8.00

Time-->



#2

Dichlorodifluoromethane

Concen: 3.476 ug/l

RT: 2.00 min Scan# 16

Delta R.T. -0.01 min

Lab File: VW011166.D

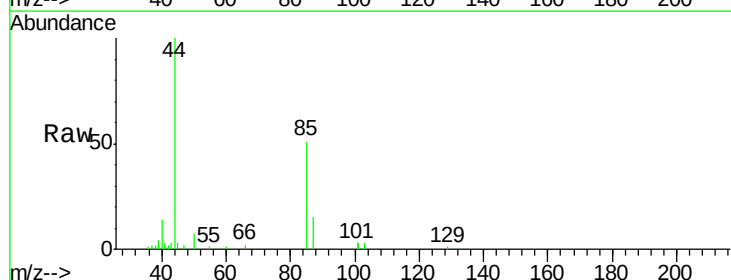
Acq: 08 Jul 2019 17:40

Tgt Ion: 85 Resp: 6066

Ion Ratio Lower Upper

85 100

87 29.0 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

2500

2000

1500

1000

500

0

1.90

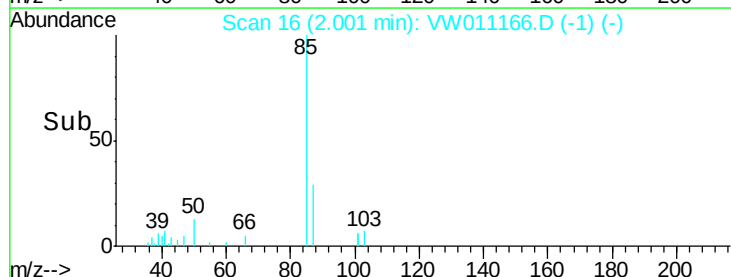
1.95

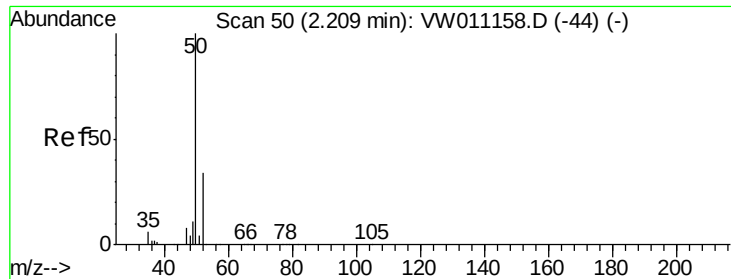
2.00

2.05

2.10

Time-->





#3

Chloromethane

Concen: 4.249 ug/l

RT: 2.20 min Scan# 49

Delta R.T. -0.01 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 50 Resp: 9553

Ion Ratio Lower Upper

50 100

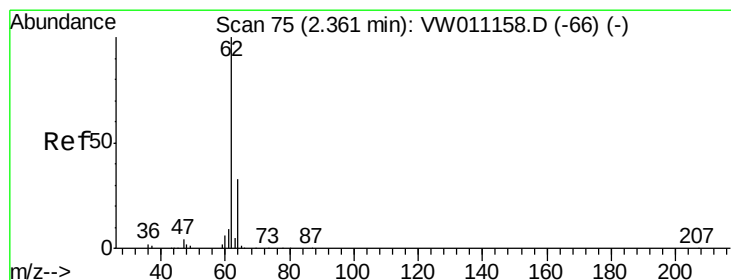
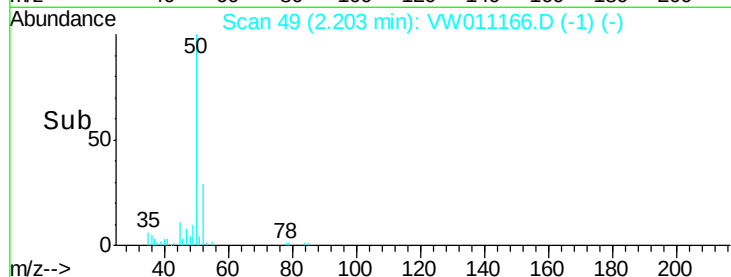
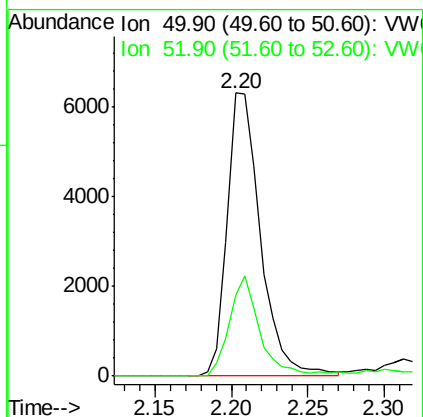
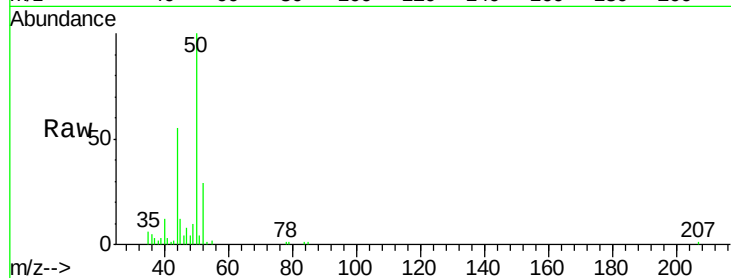
52 28.6 26.9 40.3

Manual Integrations

APPROVED

MMDadoda

7/9/2019 4:13:24 PM



#4

Vinyl Chloride

Concen: 3.940 ug/l

RT: 2.36 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW011166.D

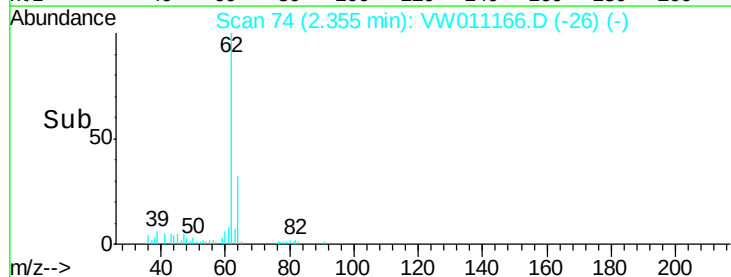
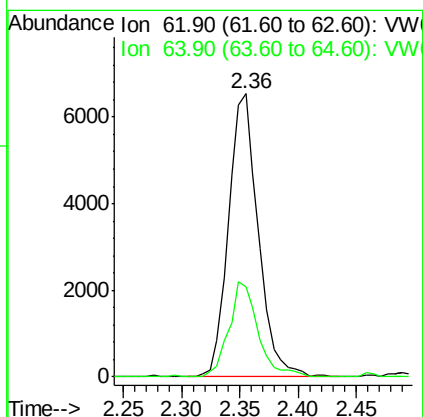
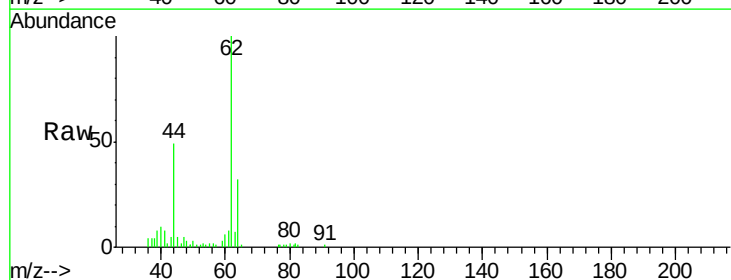
Acq: 08 Jul 2019 17:40

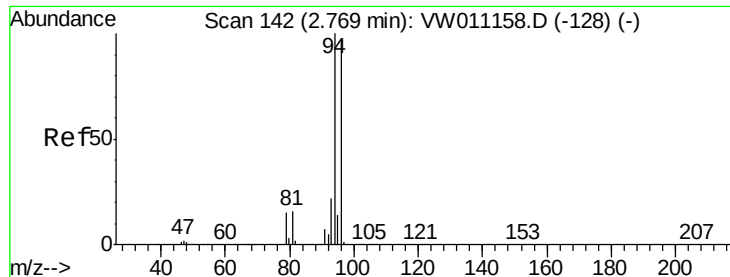
Tgt Ion: 62 Resp: 11594

Ion Ratio Lower Upper

62 100

64 31.8 26.6 40.0





#5

Bromomethane

Concen: 4.254 ug/l

RT: 2.77 min Scan# 142

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 94 Resp: 6291

Ion Ratio Lower Upper

94 100

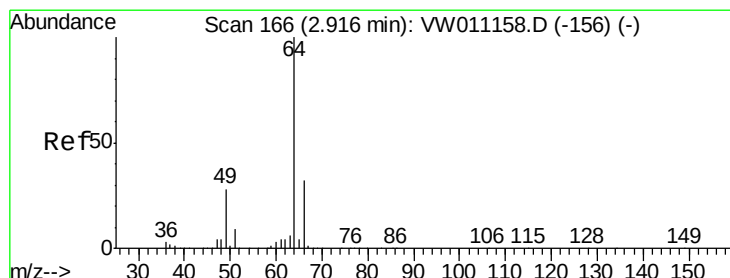
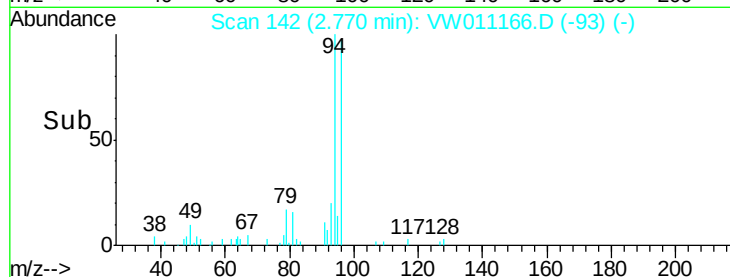
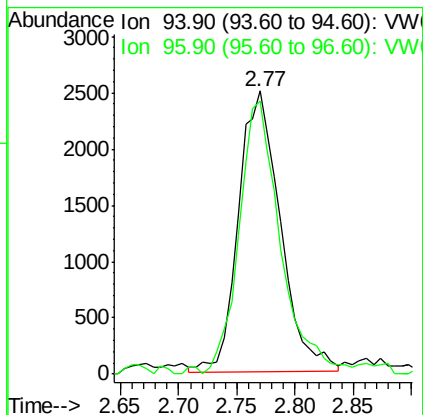
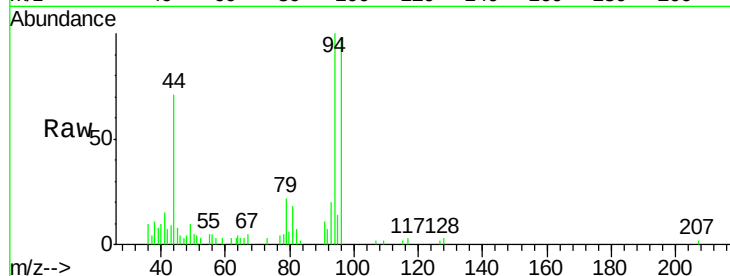
96 96.3 77.4 116.0

Manual Integrations

APPROVED

MMDadoda

7/9/2019 4:13:24 PM



#6

Chloroethane

Concen: 3.856 ug/l

RT: 2.92 min Scan# 167

Delta R.T. 0.01 min

Lab File: VW011166.D

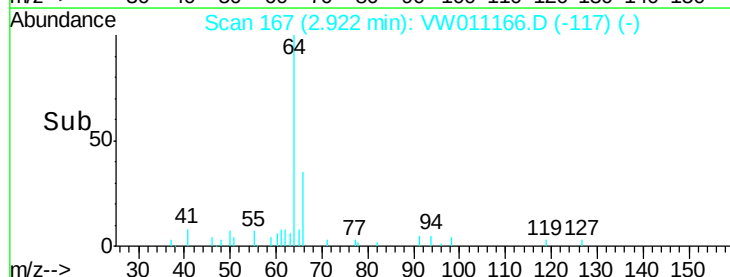
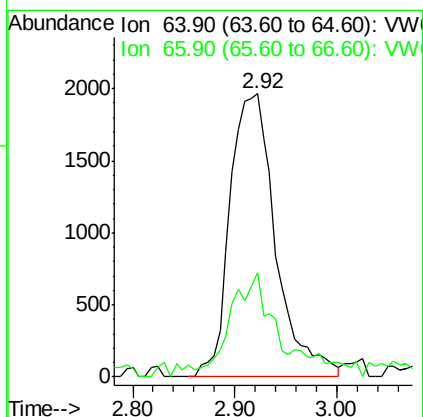
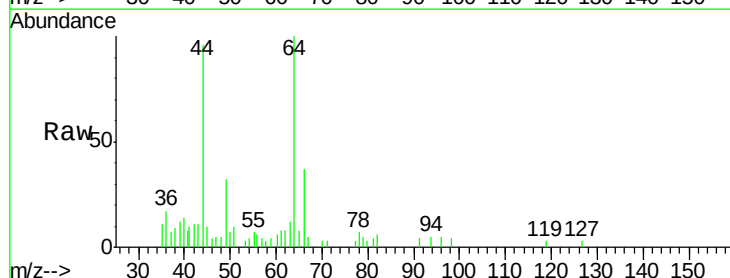
Acq: 08 Jul 2019 17:40

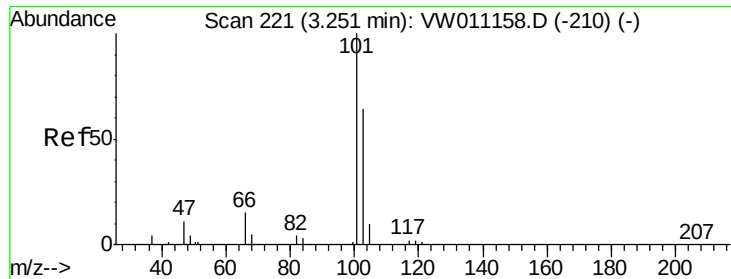
Tgt Ion: 64 Resp: 6113

Ion Ratio Lower Upper

64 100

66 32.9 25.8 38.8





#7

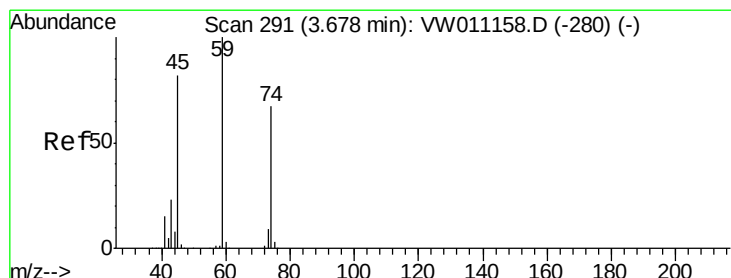
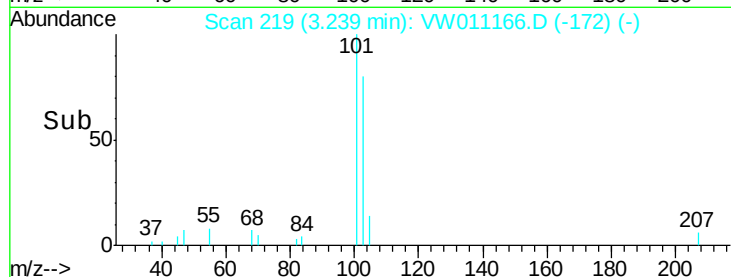
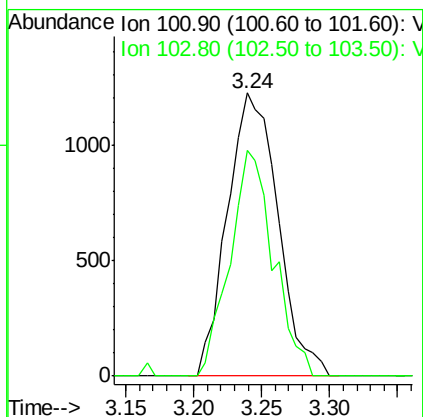
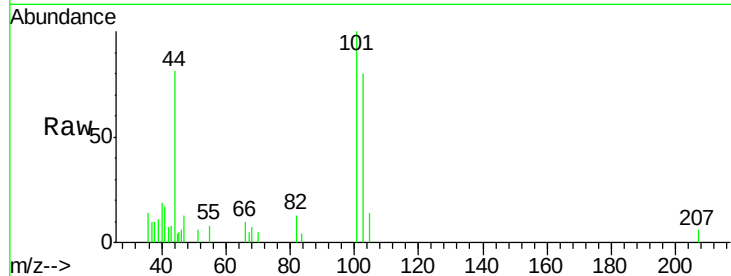
Trichlorofluoromethane
Concen: 3.037 ug/l
RT: 3.24 min Scan# 219
Delta R.T. -0.01 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
101	100		
103	79.7	51.3	76.9#

Manual Integrations
APPROVED

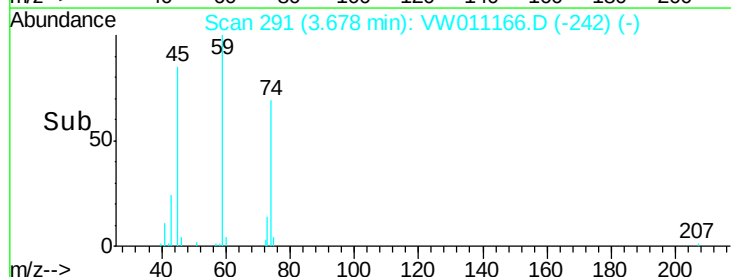
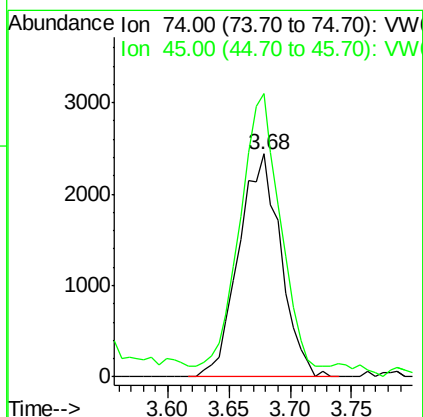
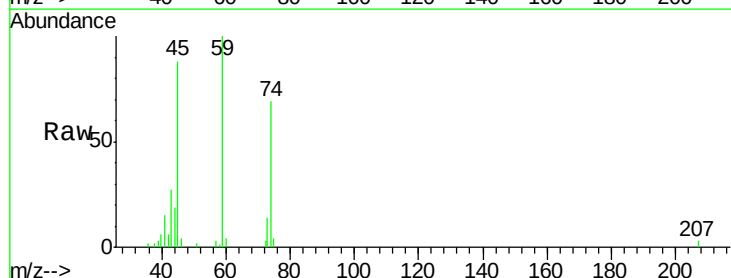
MMDadoda
7/9/2019 4:13:24 PM

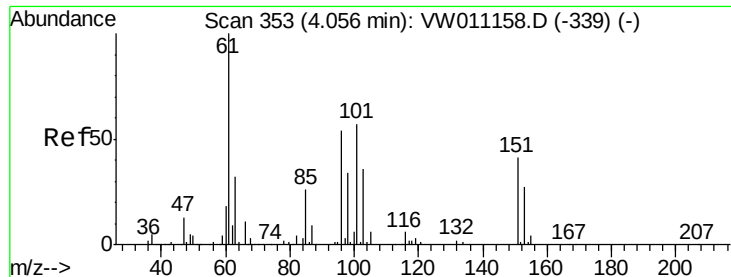


#8

Diethyl Ether
Concen: 4.021 ug/l
RT: 3.68 min Scan# 291
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion	Ratio	Lower	Upper
74	100		
45	117.7	59.9	179.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.122 ug/l

RT: 4.06 min Scan# 353

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

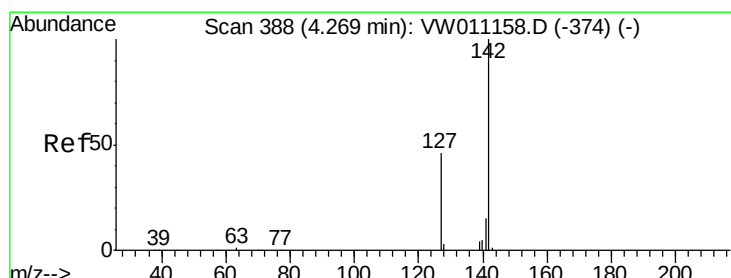
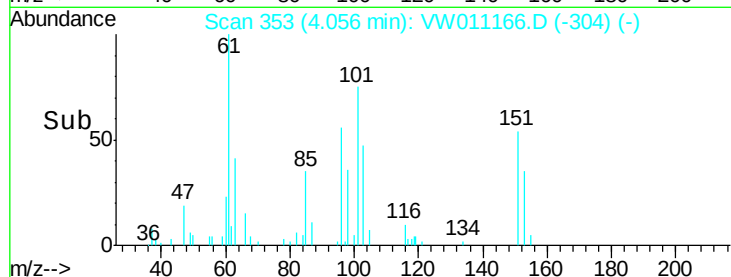
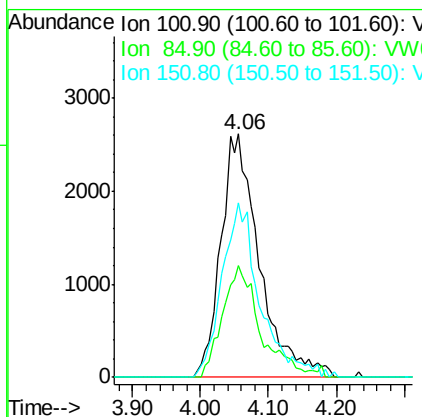
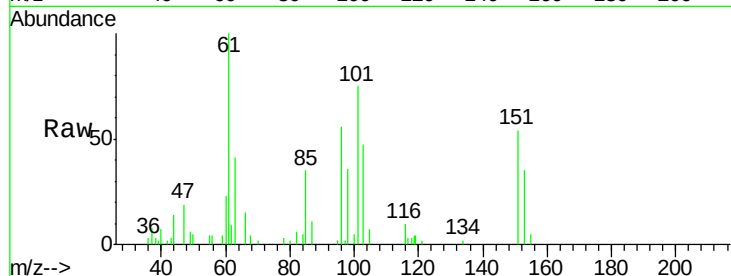
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion:	101	Resp:	10323
Ion Ratio	Lower	Upper	
101	100		
85	44.8	36.5	54.7
151	70.7	59.1	88.7

Manual Integrations
APPROVED

MMDadoda
7/9/2019 4:13:24 PM



#10

Methyl Iodide

Concen: 3.741 ug/l

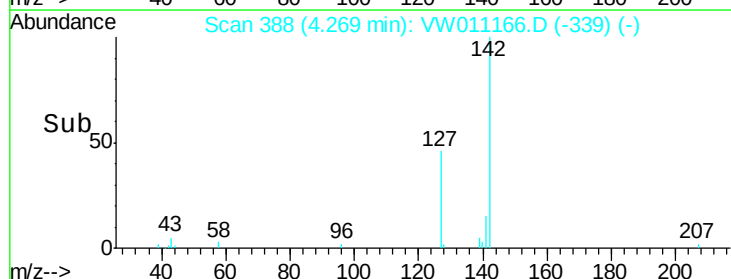
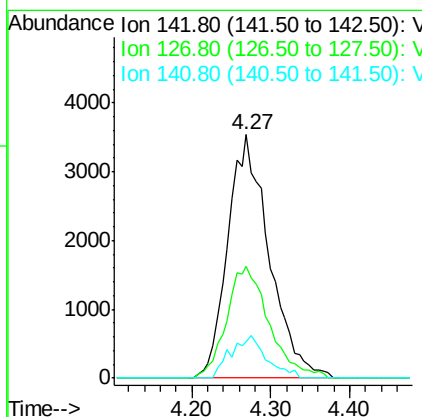
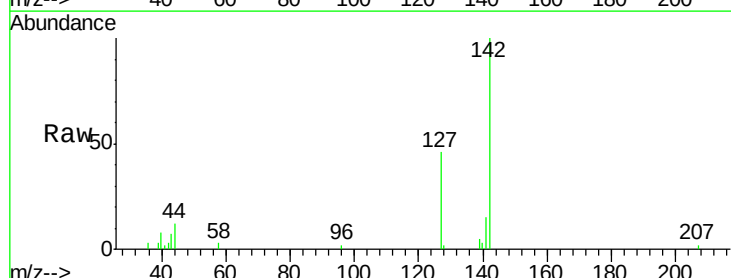
RT: 4.27 min Scan# 388

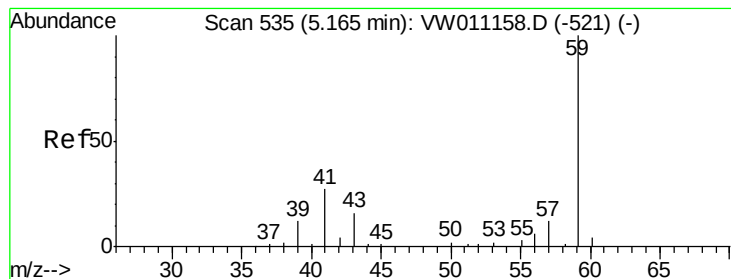
Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Tgt Ion:	142	Resp:	12884
Ion Ratio	Lower	Upper	
142	100		
127	47.0	35.7	53.5
141	14.9	11.5	17.3





#11

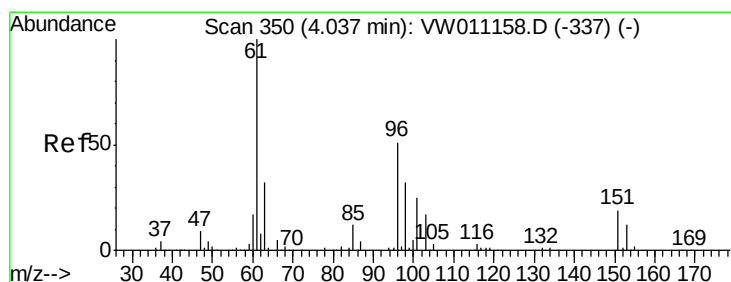
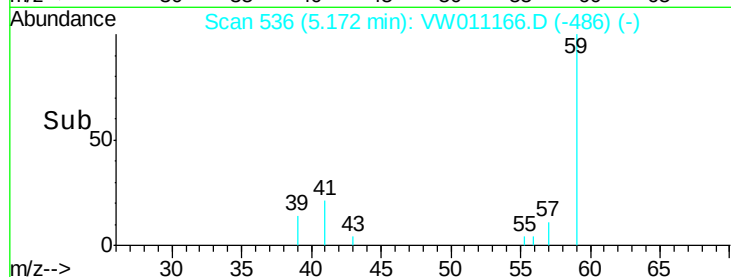
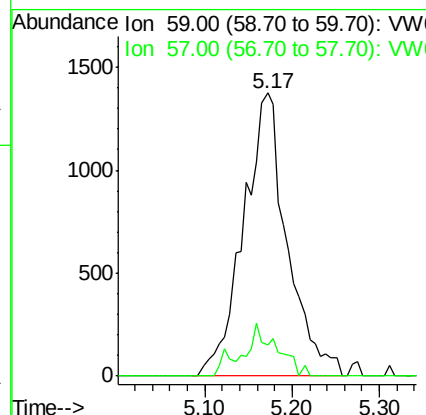
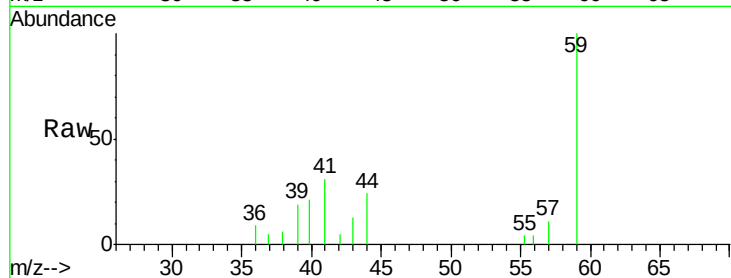
Tert butyl alcohol
 Concen: 21.873 ug/l
 RT: 5.17 min Scan# 536
 Delta R.T. 0.01 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
59	100		
57	12.1	9.0	13.6

Manual Integrations
 APPROVED

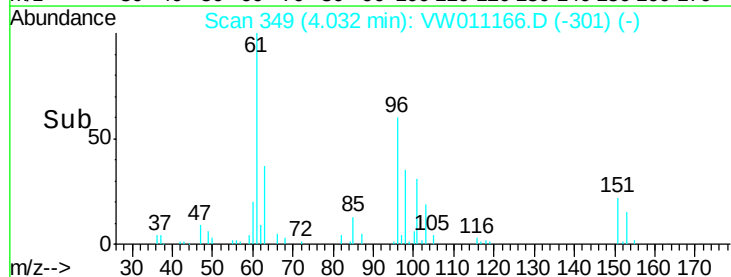
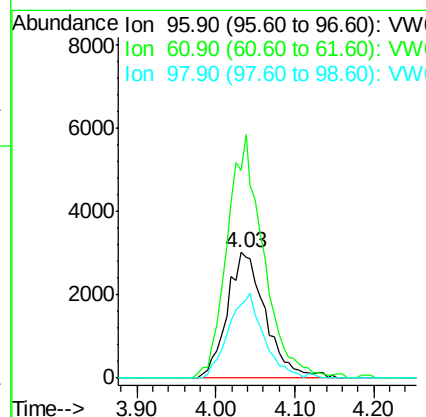
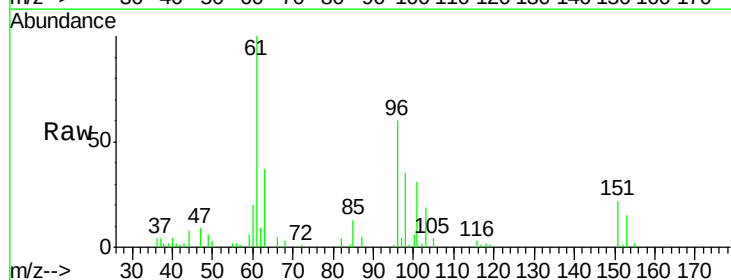
MMDadoda
 7/9/2019 4:13:24 PM

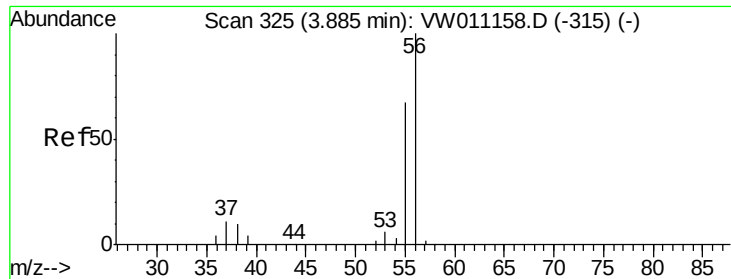


#12

1,1-Dichloroethene
 Concen: 3.939 ug/l
 RT: 4.03 min Scan# 349
 Delta R.T. -0.01 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

Tgt Ion	Ratio	Lower	Upper
96	100		
61	165.4	157.7	236.5
98	58.6	50.9	76.3





#13

Acrolein

Concen: 20.303 ug/l

RT: 3.89 min Scan# 325

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 56 Resp: 3519

Ion Ratio Lower Upper

56 100

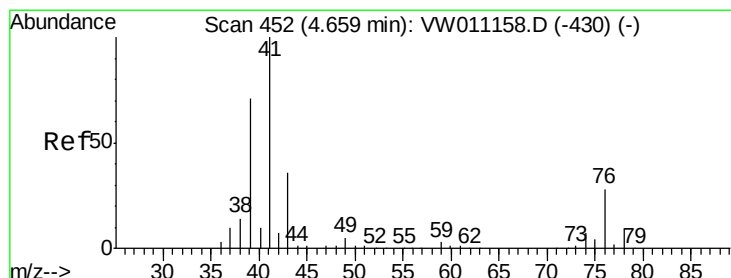
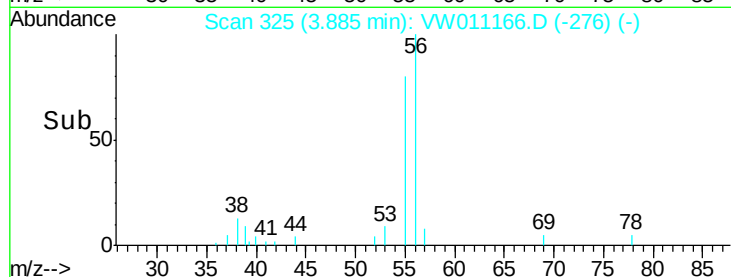
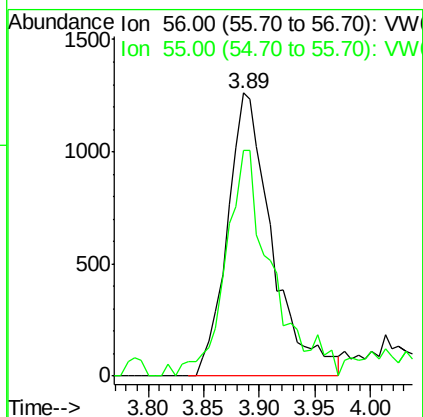
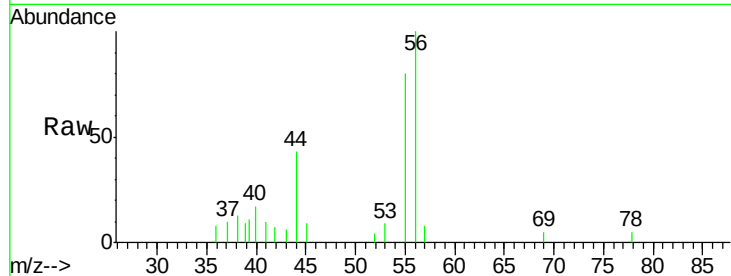
55 79.1 56.4 84.6

Manual Integrations

APPROVED

MMDadoda

7/9/2019 4:13:24 PM



#14

Allyl chloride

Concen: 3.495 ug/l

RT: 4.65 min Scan# 451

Delta R.T. -0.01 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

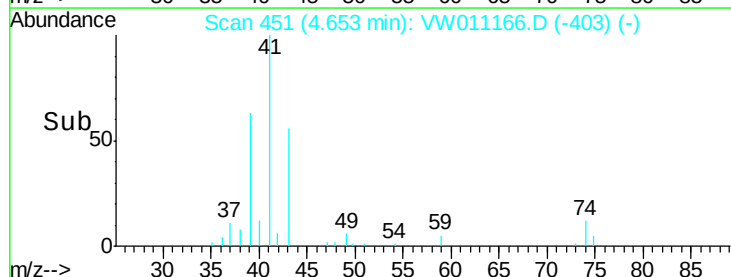
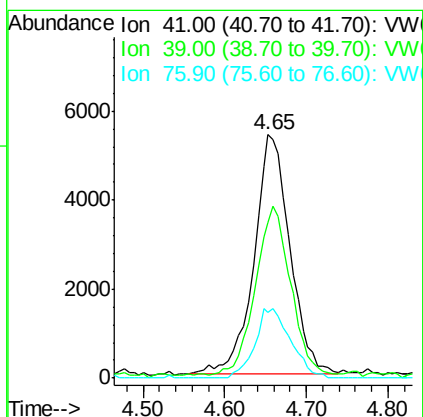
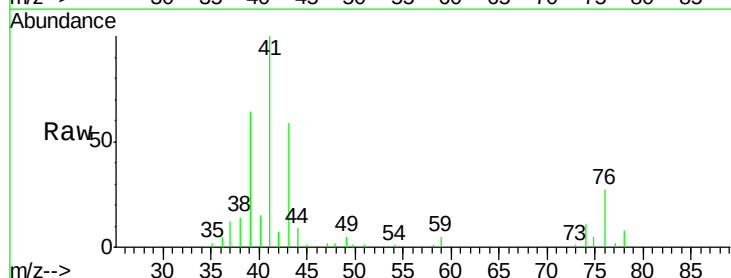
Tgt Ion: 41 Resp: 16566

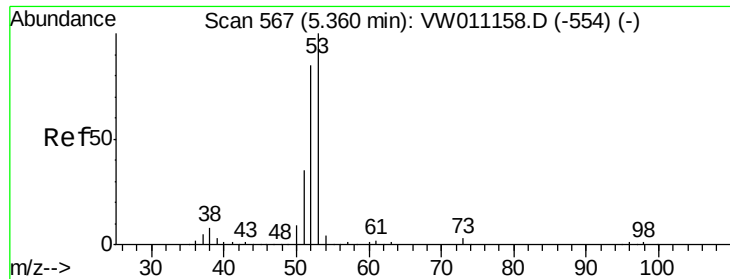
Ion Ratio Lower Upper

41 100

39 68.7 55.1 82.7

76 28.9 22.5 33.7





#15

Acrylonitrile

Concen: 19.498 ug/l

RT: 5.37 min Scan# 569

Delta R.T. 0.01 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

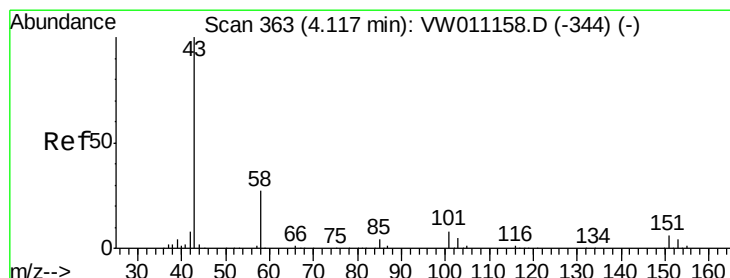
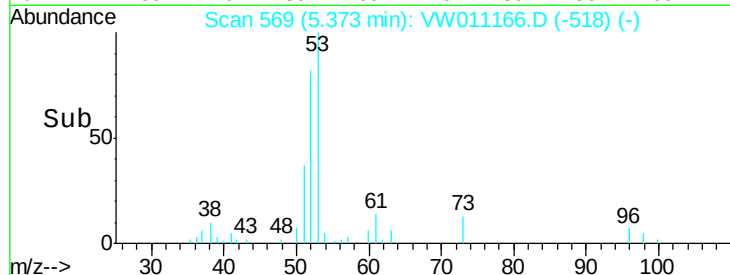
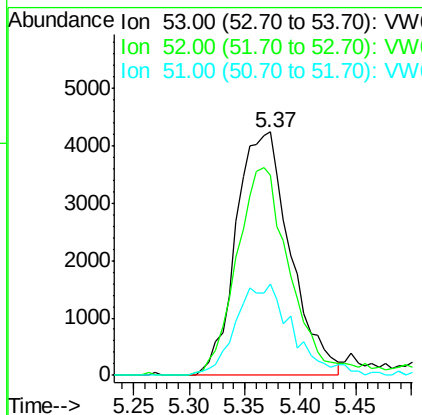
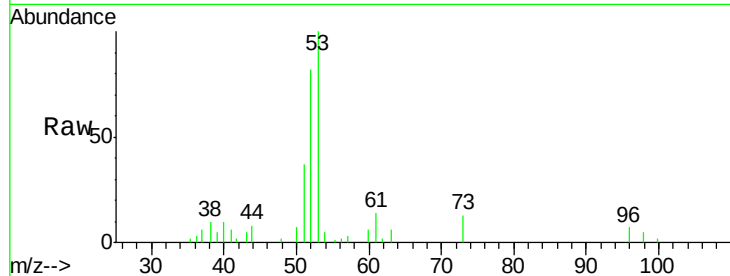
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion:	53	Resp:	14365
Ion	Ratio	Lower	Upper
53	100		
52	83.4	66.2	99.4
51	39.2	29.1	43.7

Manual Integrations
APPROVED

MMDadoda
7/9/2019 4:13:24 PM



#16

Acetone

Concen: 20.331 ug/l

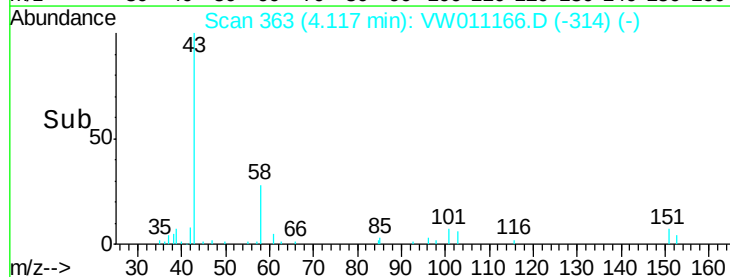
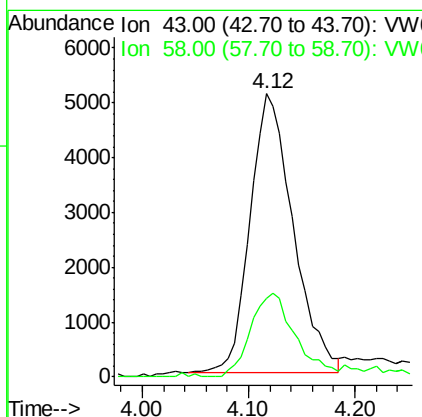
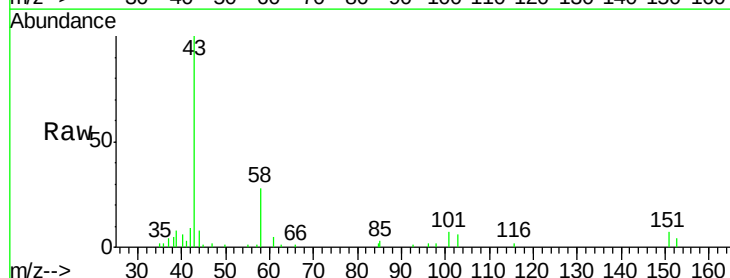
RT: 4.12 min Scan# 363

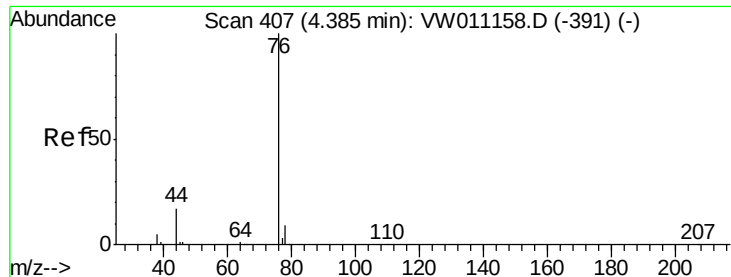
Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Tgt Ion:	43	Resp:	14382
Ion	Ratio	Lower	Upper
43	100		
58	28.4	21.8	32.6





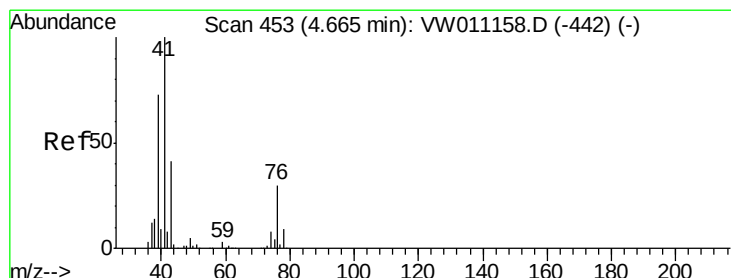
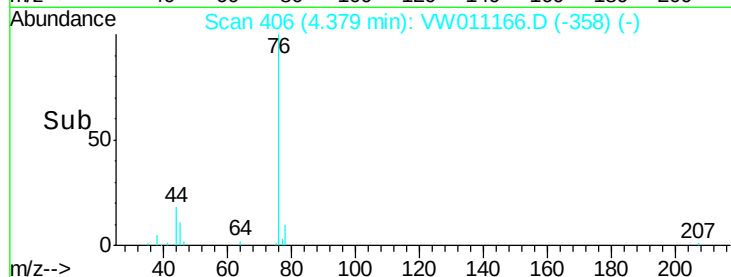
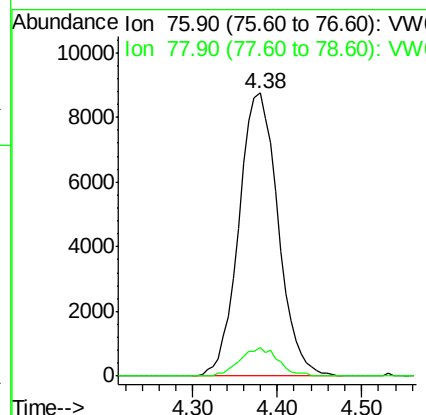
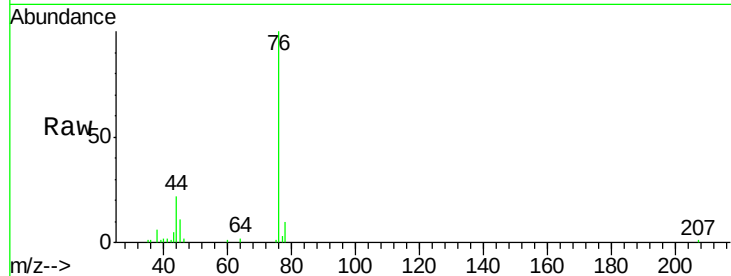
#17
Carbon Disulfide
Concen: 3.506 ug/l
RT: 4.38 min Scan# 406
Delta R.T. -0.01 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.9	7.1	10.7

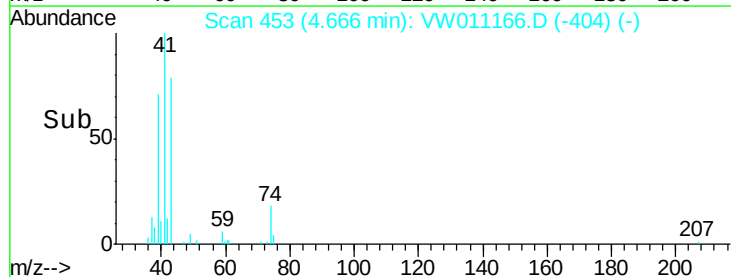
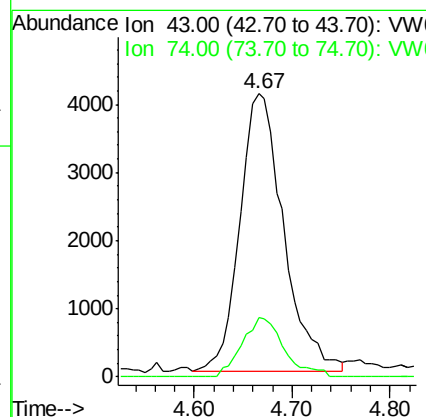
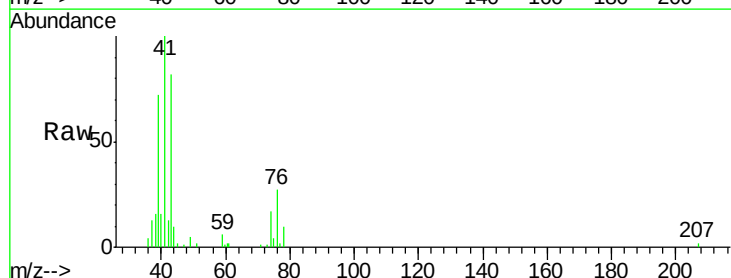
Manual Integrations
APPROVED

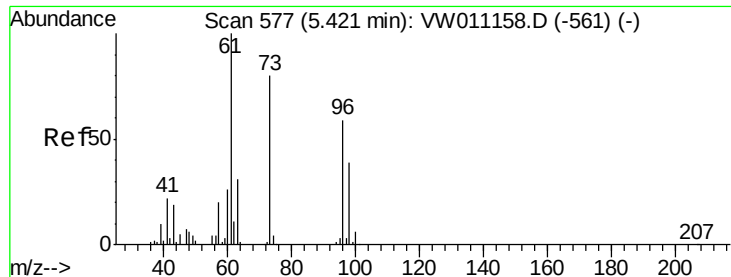
MMDadoda
7/9/2019 4:13:24 PM



#18
Methyl Acetate
Concen: 5.693 ug/l
RT: 4.67 min Scan# 453
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion	Ratio	Lower	Upper
43	100		
74	20.5	15.7	23.5





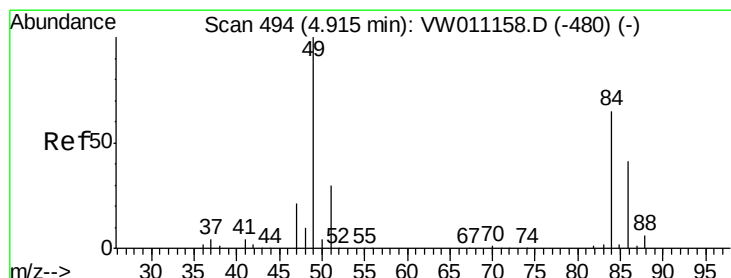
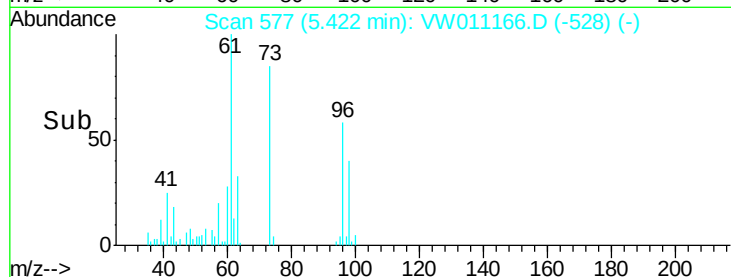
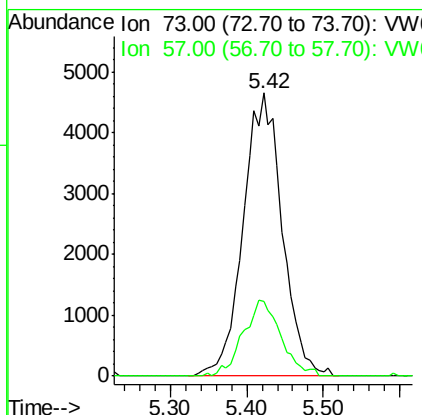
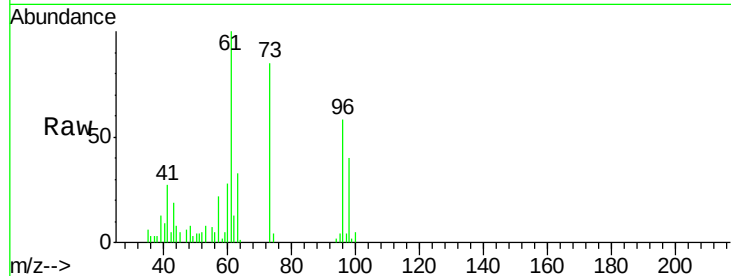
#19
Methyl tert-butyl Ether
Concen: 4.185 ug/l
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 73 Resp: 16503
Ion Ratio Lower Upper
73 100
57 26.2 19.7 29.5

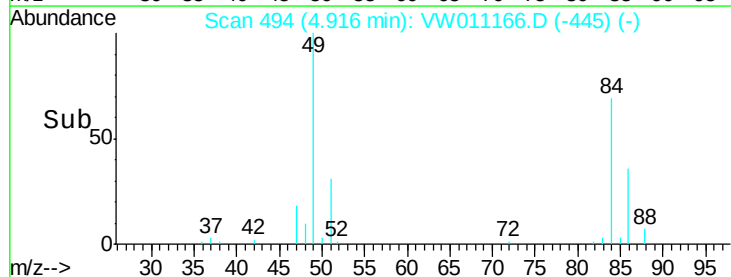
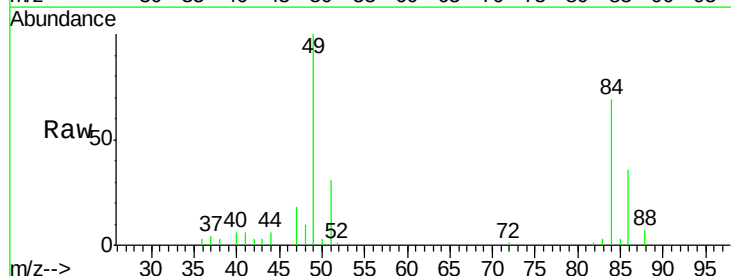
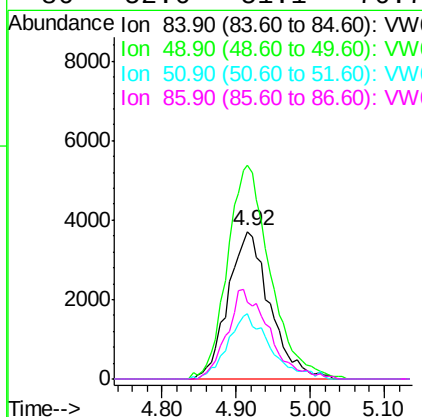
Manual Integrations
APPROVED

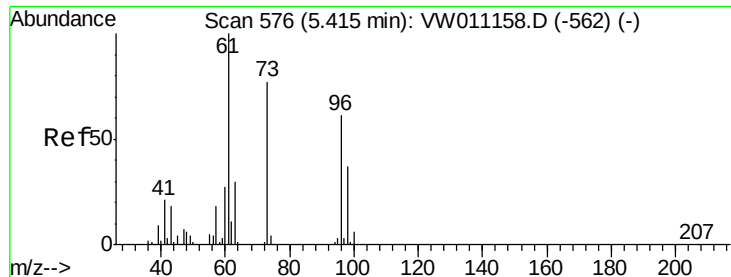
MMDadoda
7/9/2019 4:13:24 PM



#20
Methylene Chloride
Concen: 5.206 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion: 84 Resp: 14527
Ion Ratio Lower Upper
84 100
49 145.1 123.8 185.6
51 44.3 37.4 56.2
86 52.6 51.1 76.7





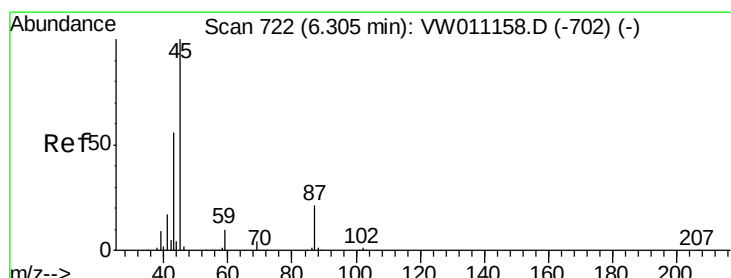
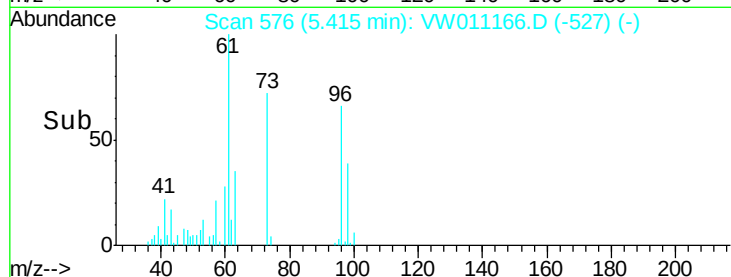
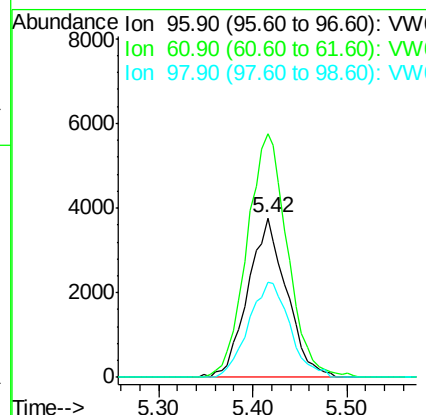
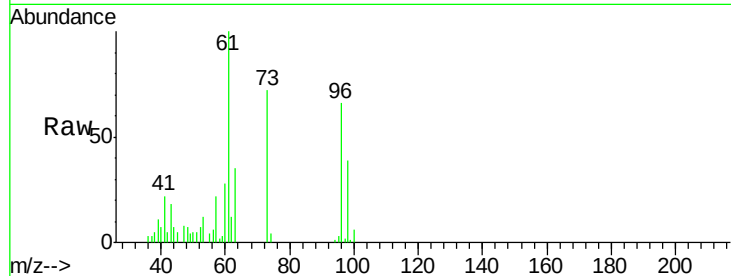
#21
trans-1,2-Dichloroethene
Concen: 4.015 ug/l
RT: 5.42 min Scan# 576
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	152.5	132.2	198.2
98	59.6	49.4	74.0

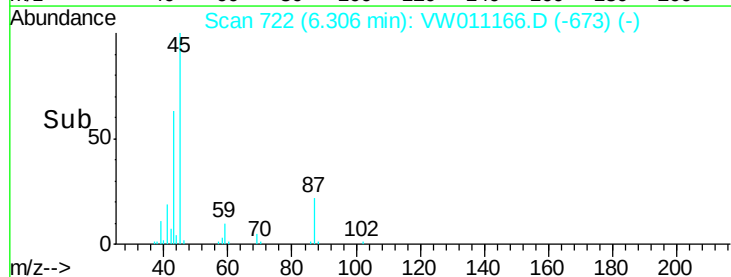
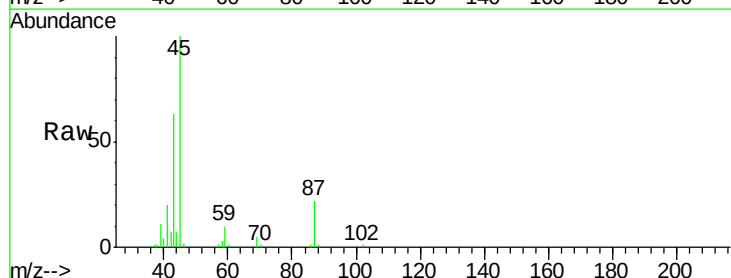
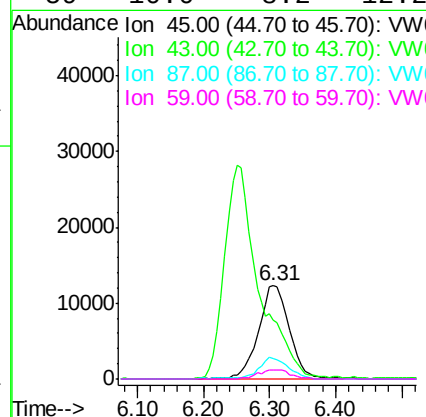
Manual Integrations
APPROVED

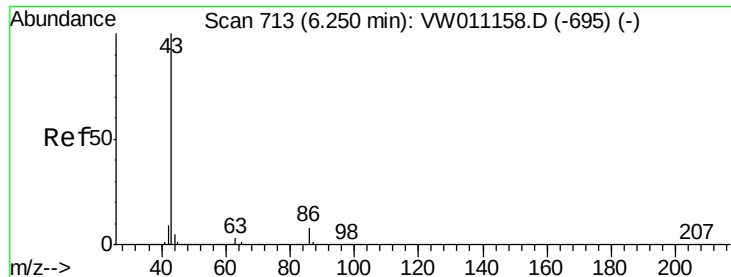
MMDadoda
7/9/2019 4:13:24 PM



#22
Diisopropyl ether
Concen: 3.912 ug/l
RT: 6.31 min Scan# 722
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion	Ratio	Lower	Upper
45	100		
43	62.7	44.6	66.8
87	22.3	17.3	25.9
59	10.0	8.2	12.2





#23

Vinyl Acetate

Concen: 16.152 ug/l

RT: 6.25 min Scan# 713

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 43 Resp: 101902

Ion Ratio Lower Upper

43 100

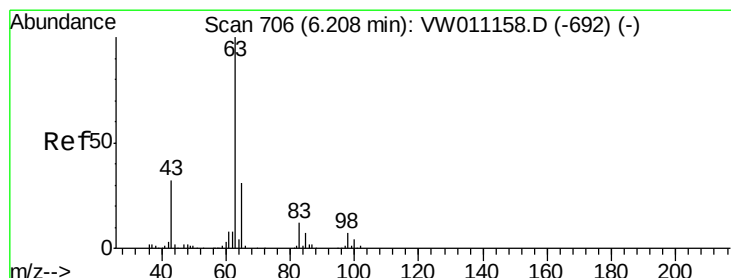
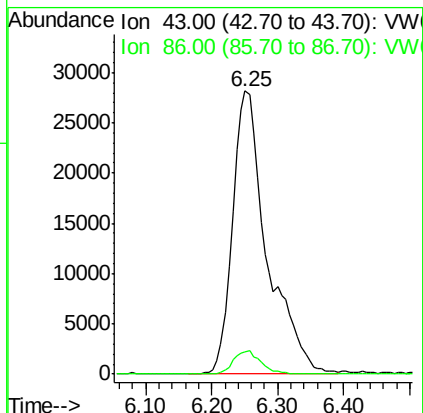
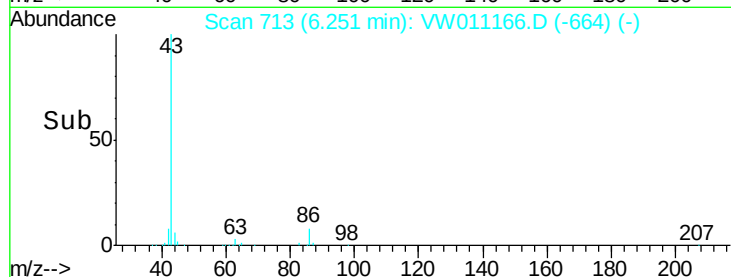
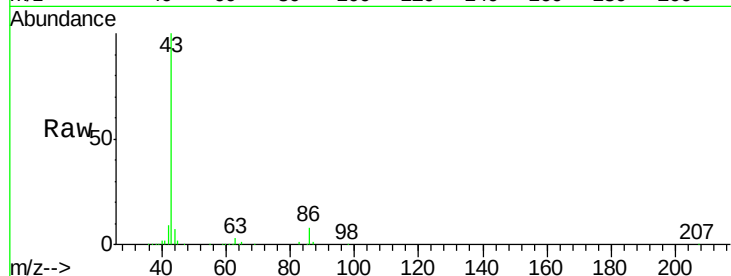
86 8.0 6.5 9.7

Manual Integrations

APPROVED

MMDadoda

7/9/2019 4:13:24 PM



#24

1,1-Dichloroethane

Concen: 3.978 ug/l

RT: 6.21 min Scan# 707

Delta R.T. 0.01 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

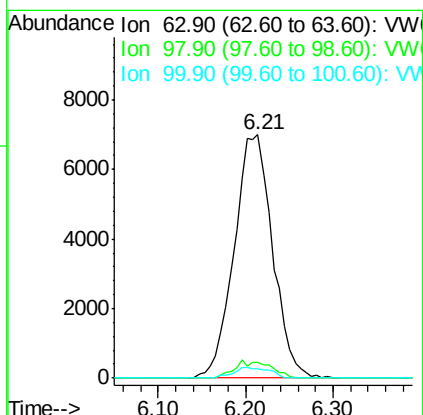
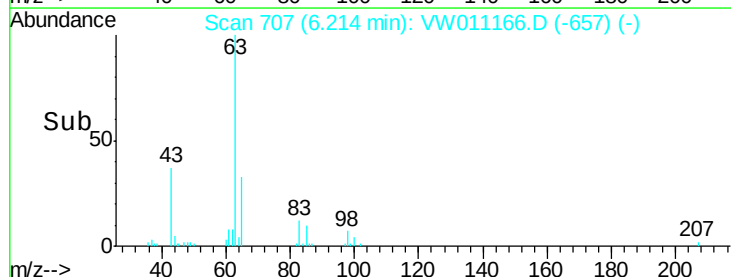
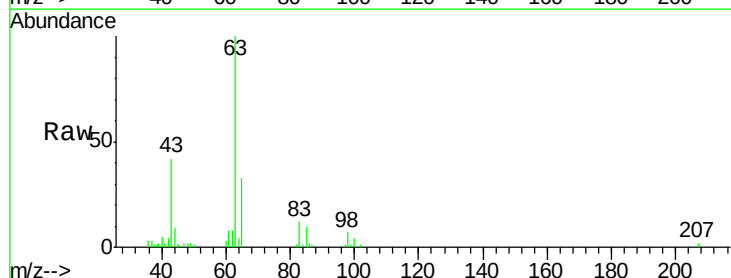
Tgt Ion: 63 Resp: 21297

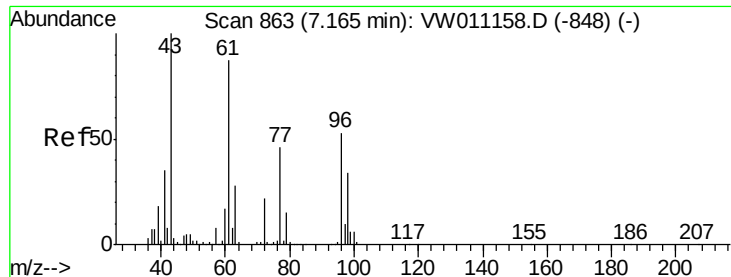
Ion Ratio Lower Upper

63 100

98 6.6 3.3 9.9

100 4.1 2.1 6.2





#25

2-Butanone

Concen: 19.719 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 43 Resp: 21896

Ion Ratio Lower Upper

43 100

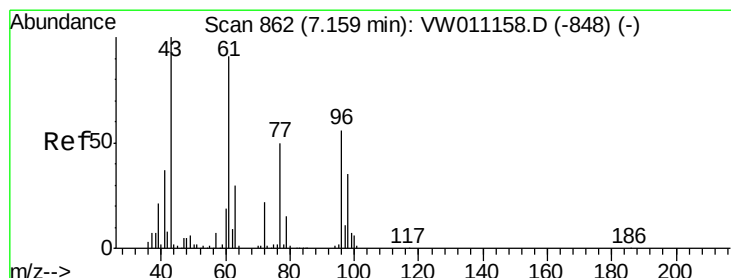
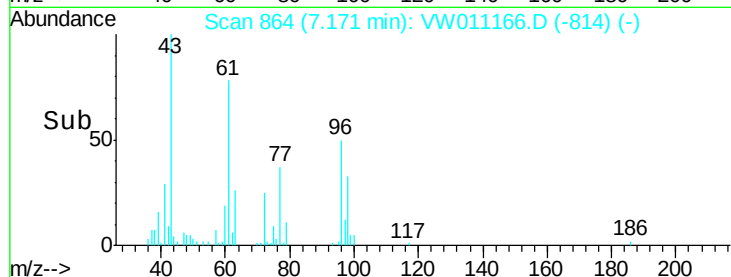
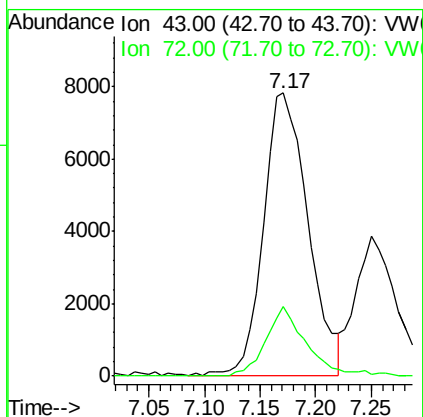
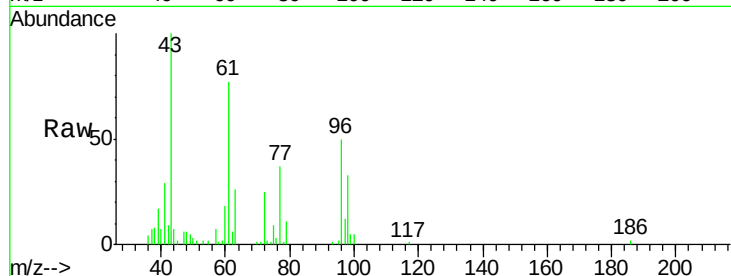
72 24.5 17.6 26.4

Manual Integrations

APPROVED

MMDadoda

7/9/2019 4:13:24 PM



#26

2,2-Dichloropropane

Concen: 3.728 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.01 min

Lab File: VW011166.D

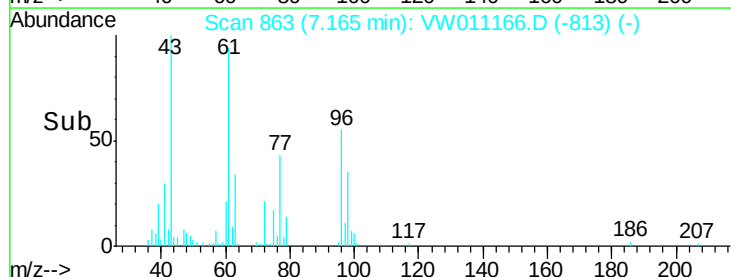
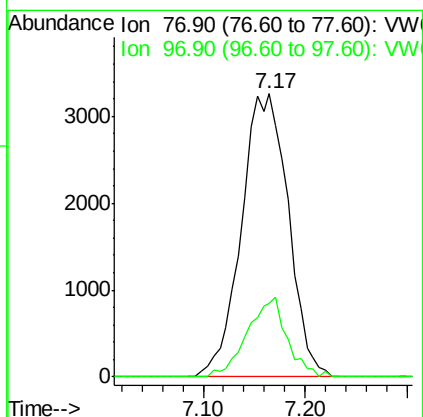
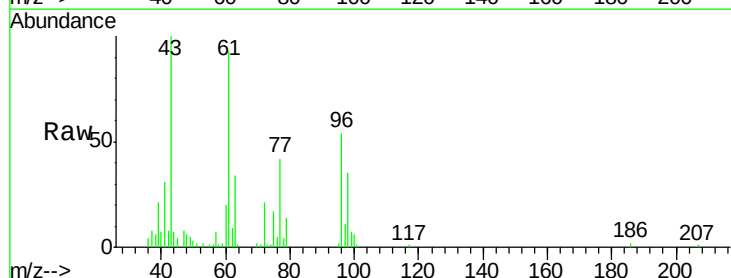
Acq: 08 Jul 2019 17:40

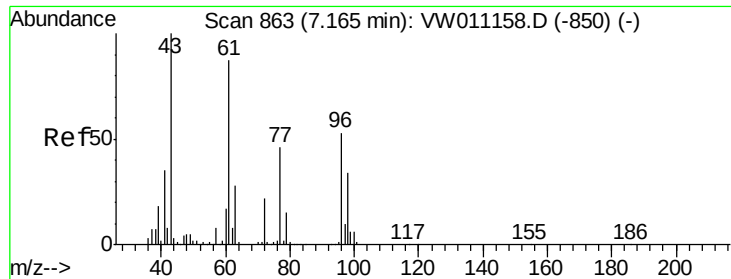
Tgt Ion: 77 Resp: 10375

Ion Ratio Lower Upper

77 100

97 23.7 11.2 33.5





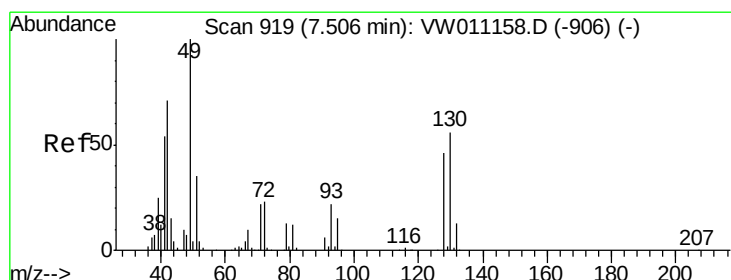
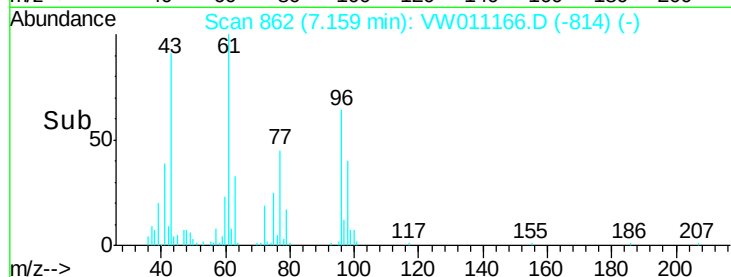
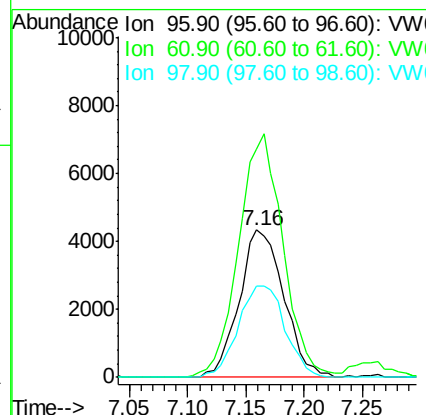
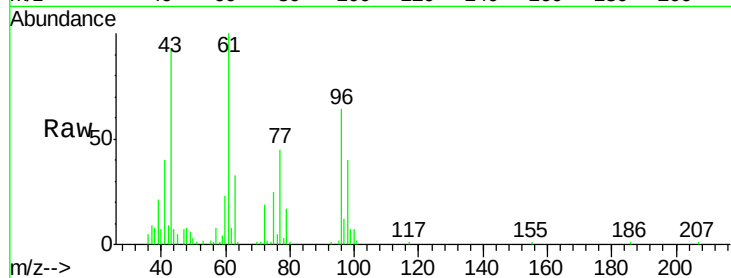
#27
 cis-1,2-Dichloroethene
 Concen: 3.967 ug/l
 RT: 7.16 min Scan# 862
 Delta R.T. -0.01 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	164.5	0.0	325.6	
98	65.2	0.0	128.2	

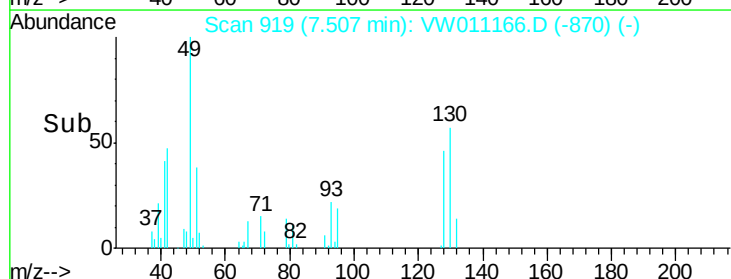
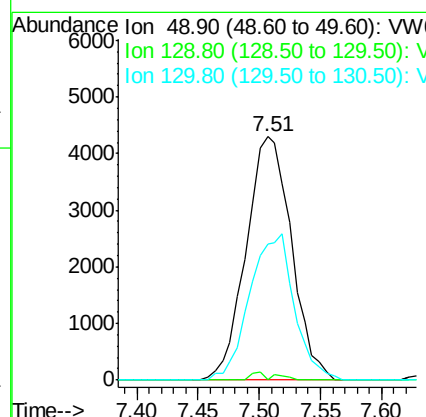
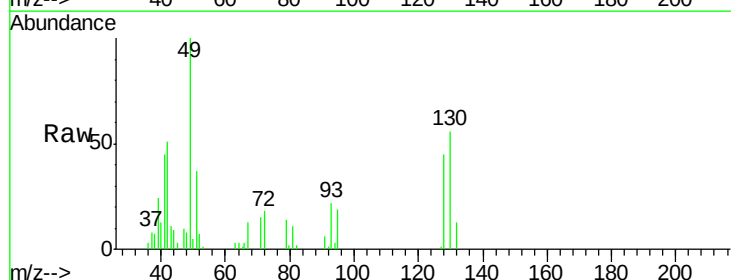
Manual Integrations
 APPROVED

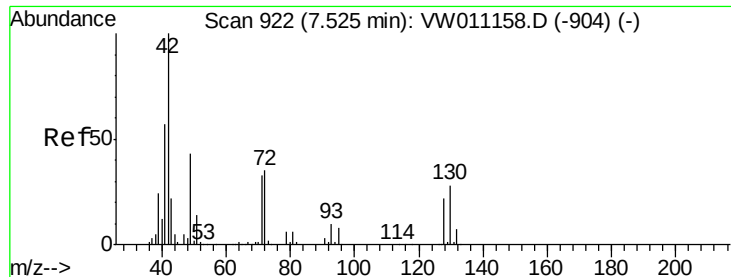
MMDadoda
 7/9/2019 4:13:24 PM



#28
 Bromochloromethane
 Concen: 4.549 ug/l
 RT: 7.51 min Scan# 919
 Delta R.T. 0.00 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	0.8	0.0	1.4	
130	58.8	45.8	68.8	





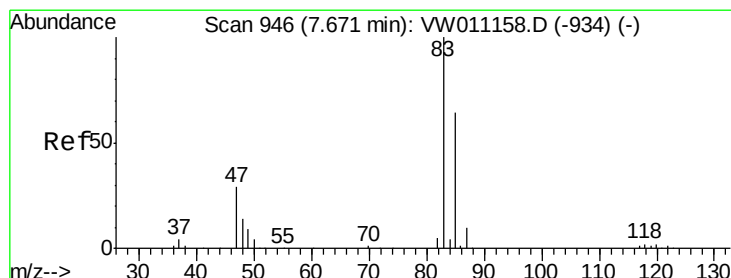
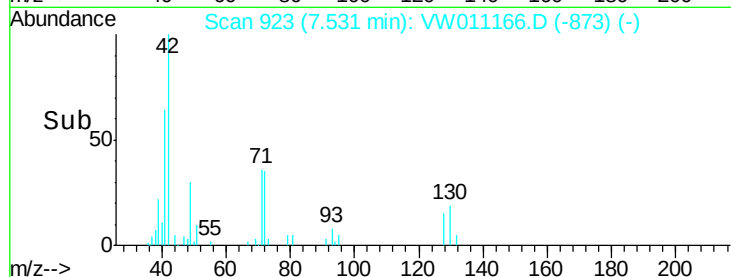
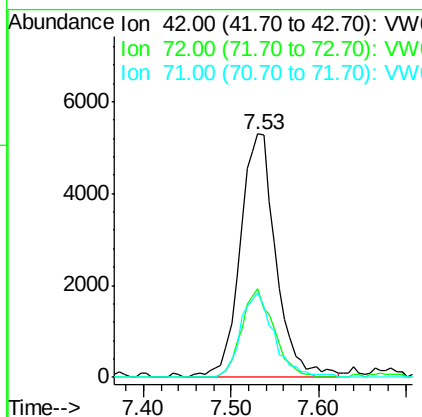
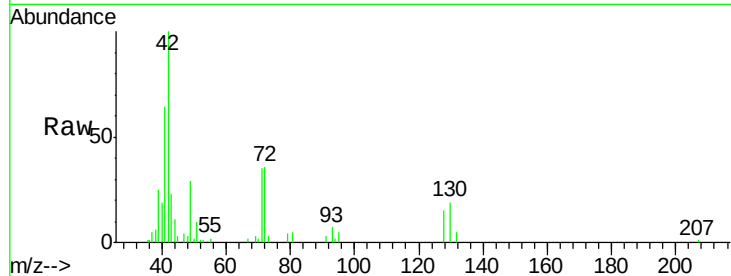
#29
Tetrahydrofuran
Concen: 20.626 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.01 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
42	100		
72	32.8	27.4	41.2
71	32.6	25.9	38.9

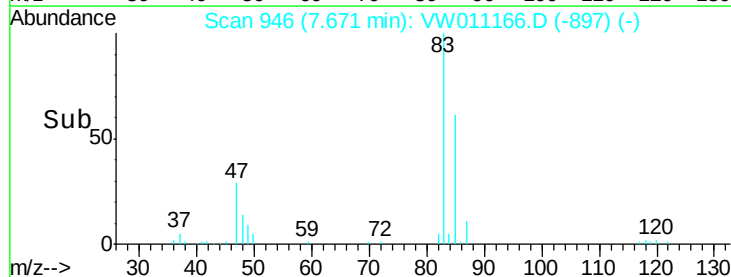
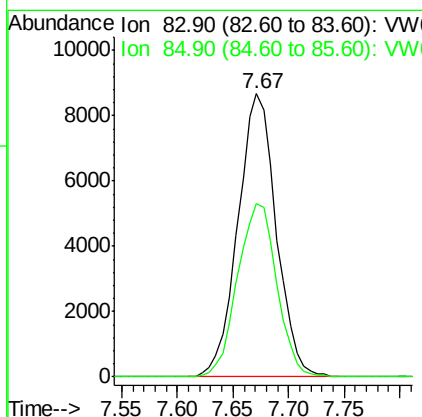
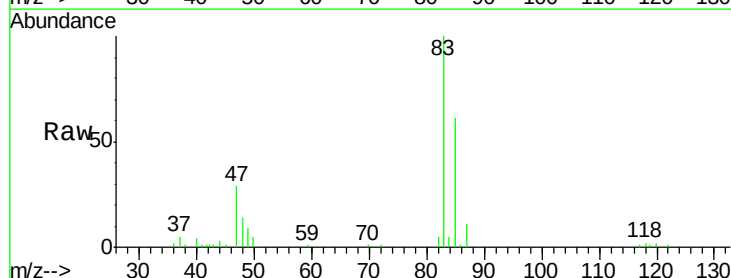
Manual Integrations
APPROVED

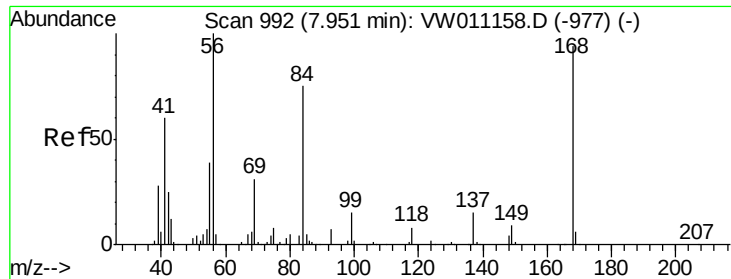
MMDadoda
7/9/2019 4:13:24 PM



#30
Chloroform
Concen: 4.183 ug/l
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.4	51.4	77.2





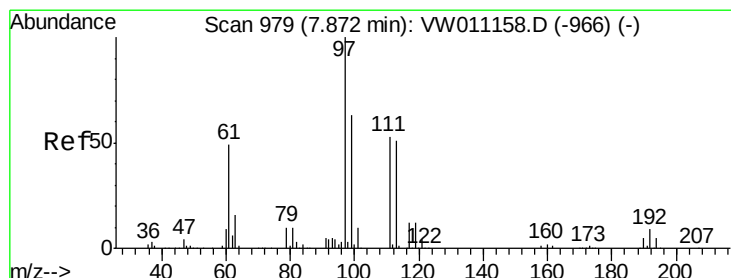
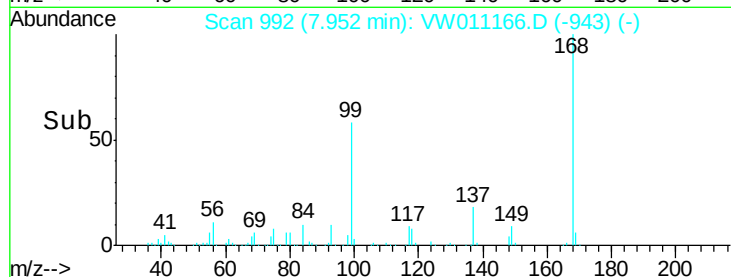
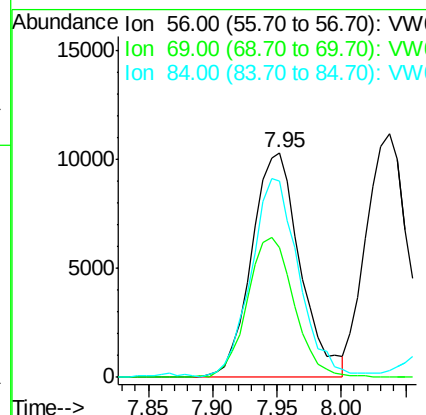
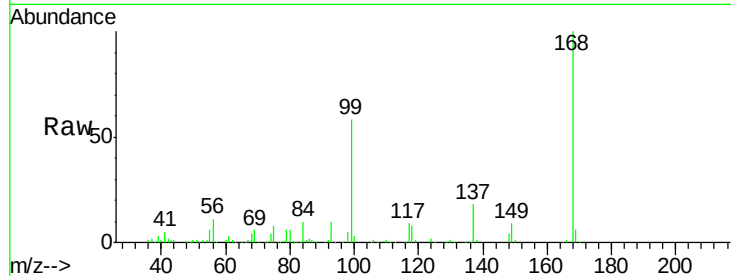
#31
Cyclohexane
Concen: 4.728 ug/l
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Resp	Lower	Upper
56	100	26927		
69	57.4		24.6	36.8#
84	86.2		60.1	90.1

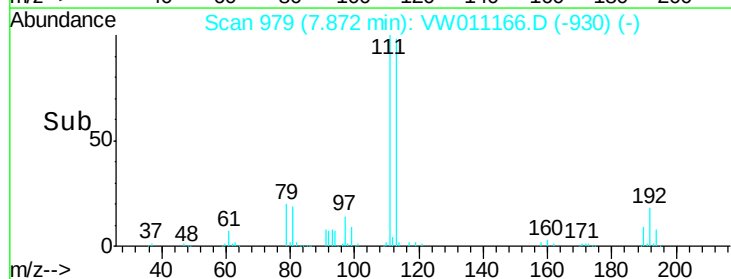
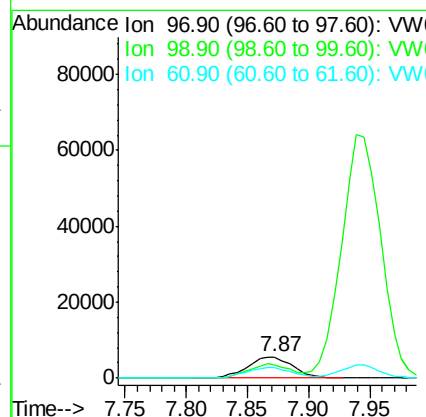
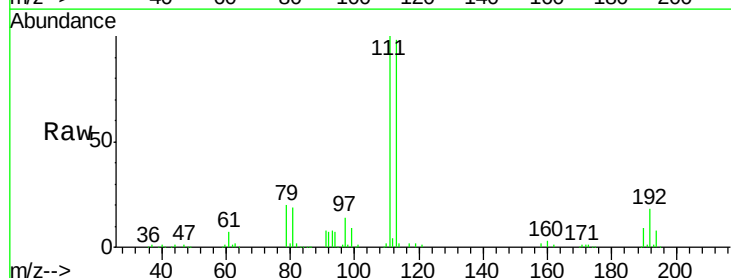
Manual Integrations
APPROVED

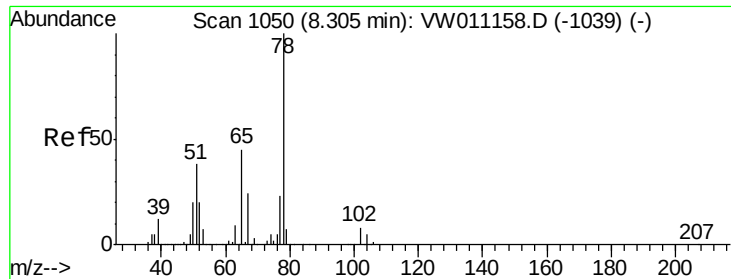
MMDadoda
7/9/2019 4:13:24 PM



#32
1,1,1-Trichloroethane
Concen: 3.808 ug/l
RT: 7.87 min Scan# 979
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	14361		
99	62.6		51.0	76.4
61	53.4		40.4	60.6





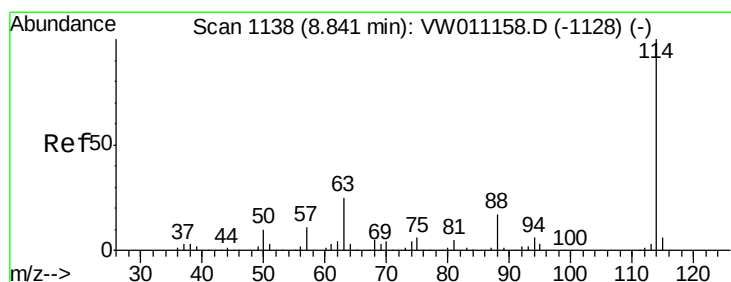
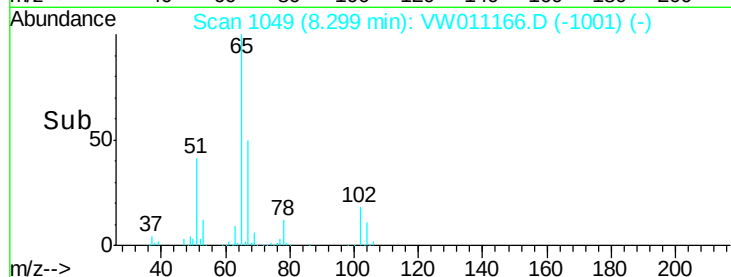
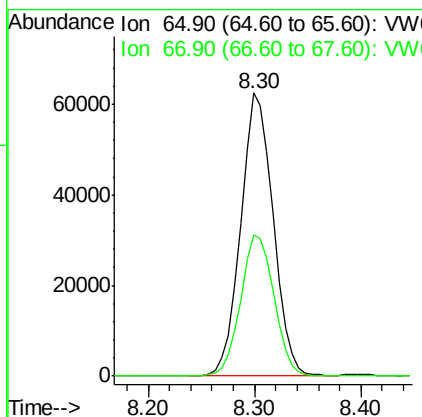
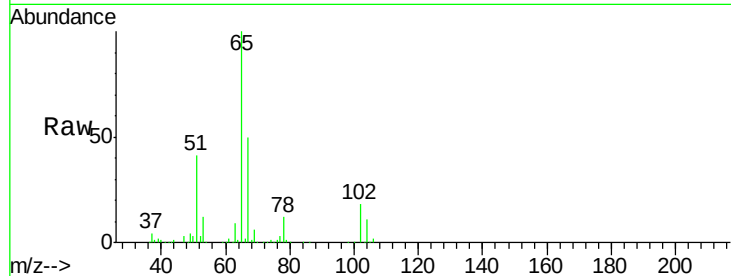
#33
 1,2-Dichloroethane-d4
 Concen: 45.632 ug/l
 RT: 8.30 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	104.4

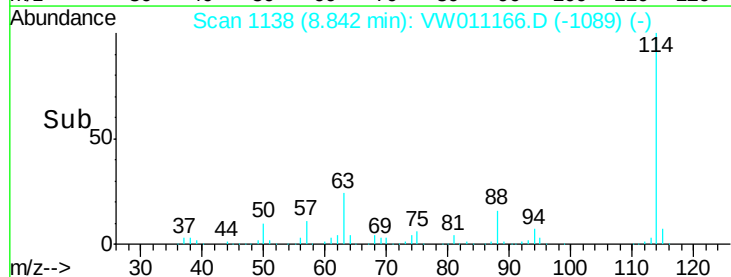
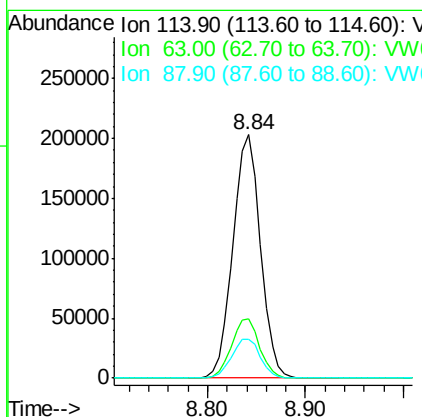
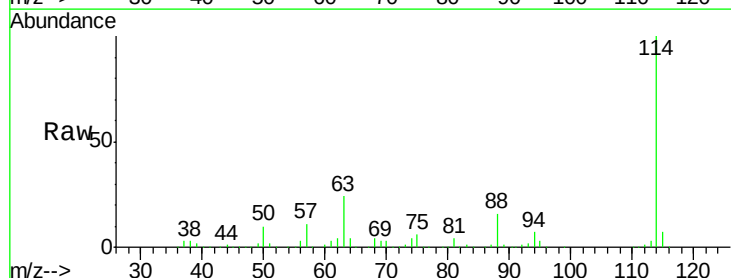
Manual Integrations
 APPROVED

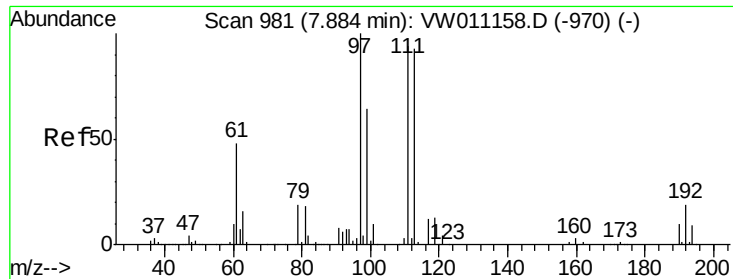
MMDadoda
 7/9/2019 4:13:24 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.5	0.0	50.8
88	16.2	0.0	34.2





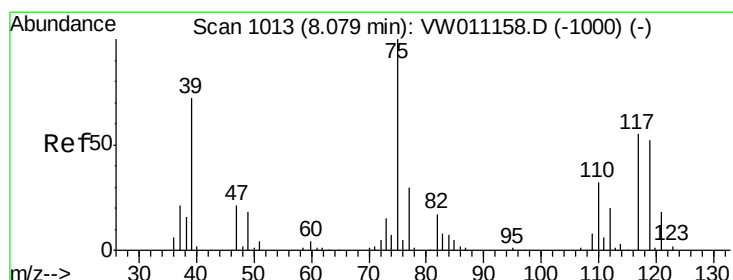
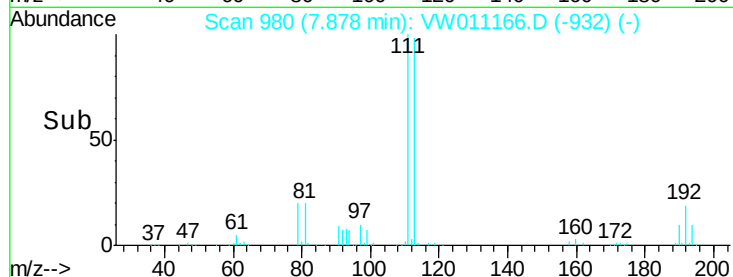
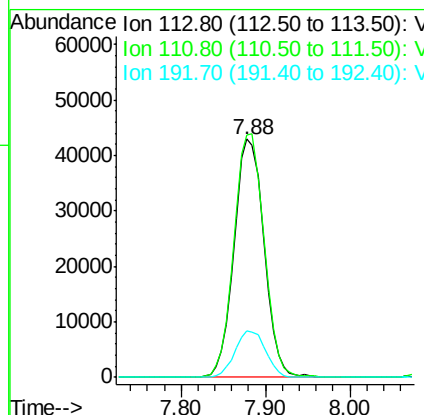
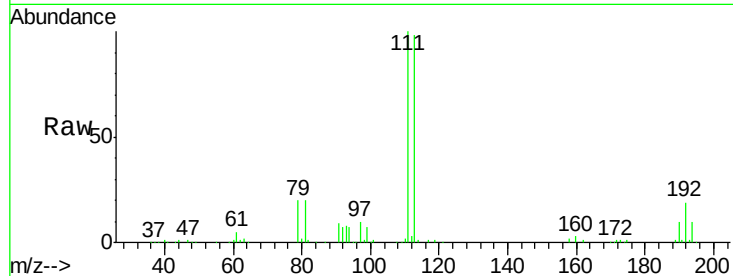
#35
 Dibromofluoromethane
 Concen: 43.630 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.01 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	103.1	82.4	123.6	
192	19.9	15.8	23.8	

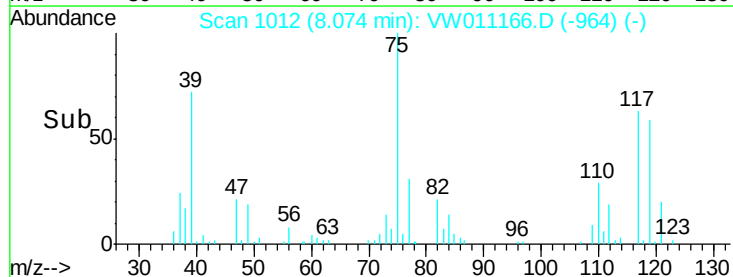
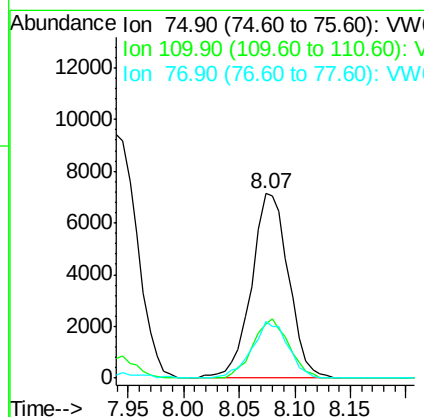
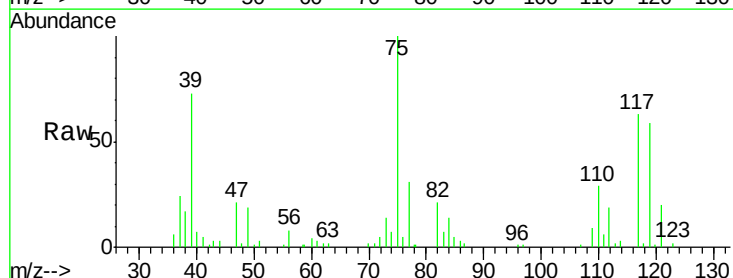
Manual Integrations
 APPROVED

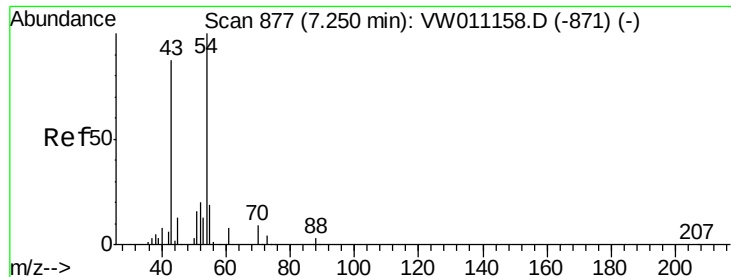
MMDadoda
 7/9/2019 4:13:24 PM



#36
 1,1-Dichloropropene
 Concen: 3.922 ug/l
 RT: 8.07 min Scan# 1012
 Delta R.T. -0.01 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	30.9	15.9	47.6	
77	30.0	24.6	36.8	





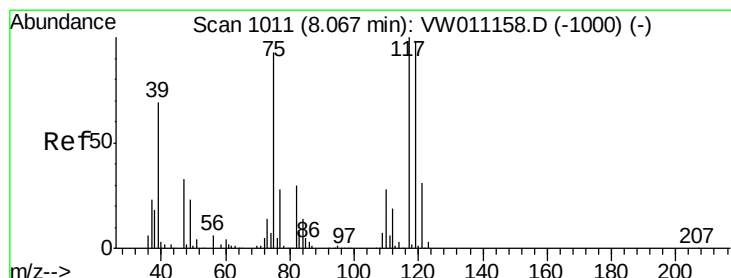
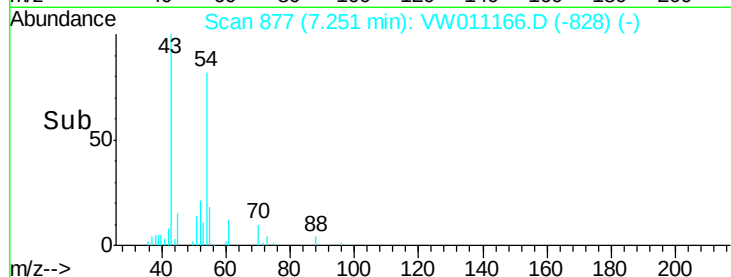
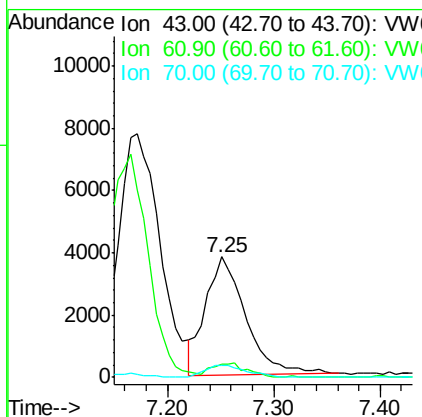
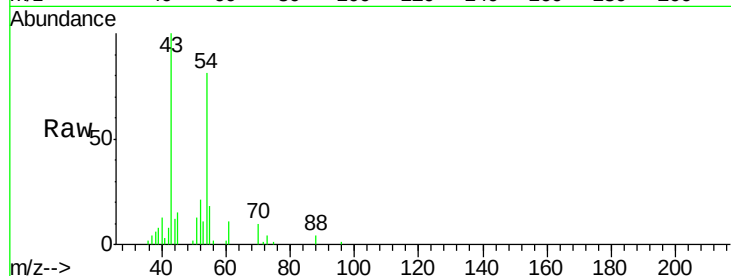
#37
Ethyl Acetate
Concen: 3.928 ug/l
RT: 7.25 min Scan# 877
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	10.5	9.5	14.3
70	10.3	7.1	10.7

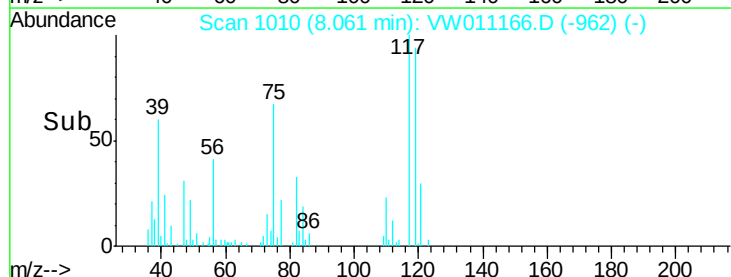
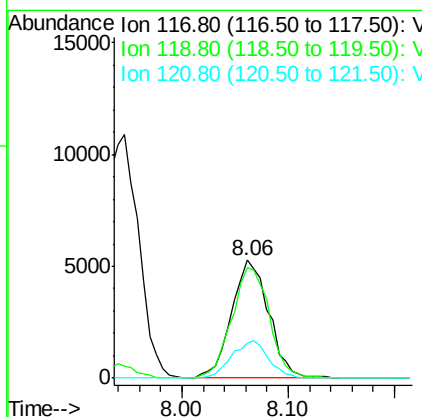
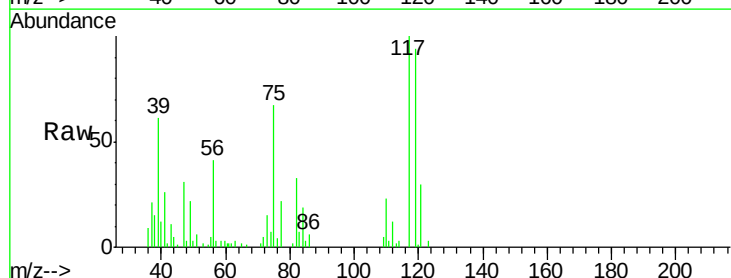
Manual Integrations
APPROVED

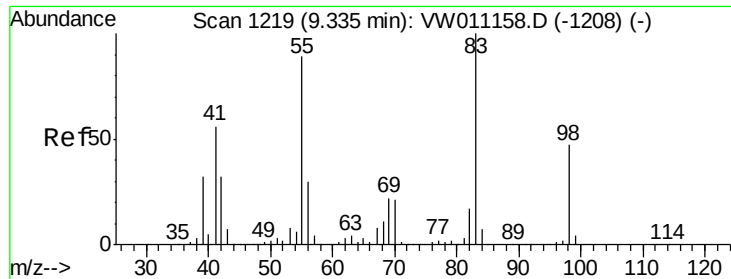
MMDadoda
7/9/2019 4:13:24 PM



#38
Carbon Tetrachloride
Concen: 3.621 ug/l
RT: 8.06 min Scan# 1010
Delta R.T. -0.01 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.7	78.1	117.1
121	29.9	25.1	37.7





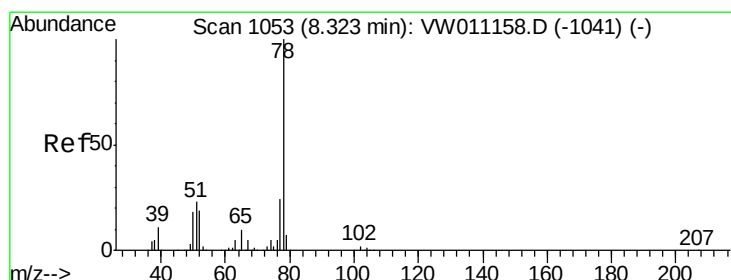
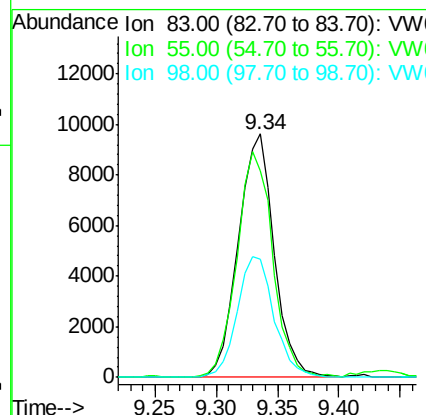
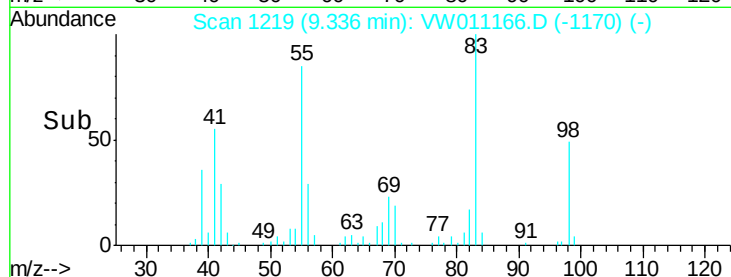
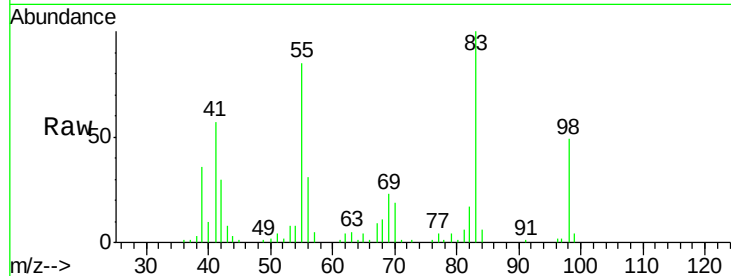
#39
Methylvlcyclohexane
Concen: 3.810 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion	83.00	Resp	19509
Ion	Ratio	Lower	Upper
83	100		
55	85.1	71.2	106.8
98	48.6	37.5	56.3

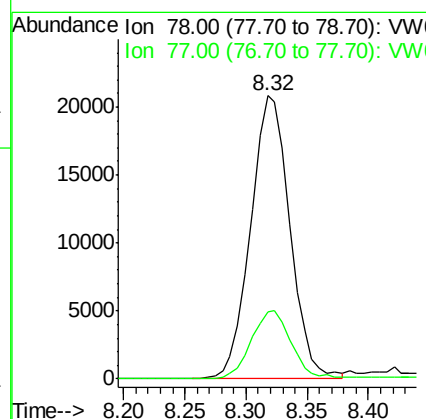
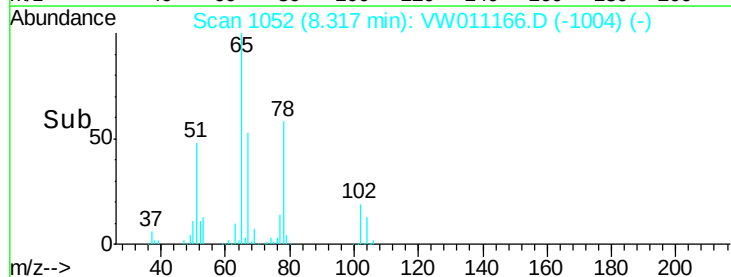
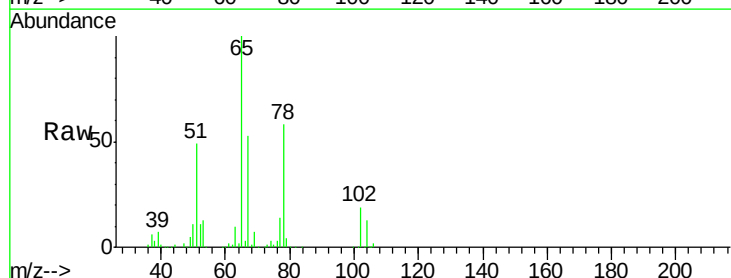
Manual Integrations
APPROVED

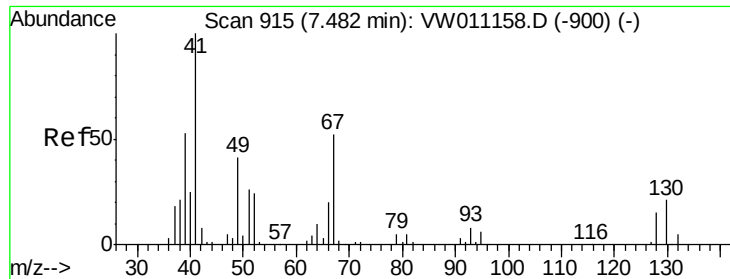
MMDadoda
7/9/2019 4:13:24 PM



#40
Benzene
Concen: 3.991 ug/l
RT: 8.32 min Scan# 1052
Delta R.T. -0.01 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion	78	Resp	46594
Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.6





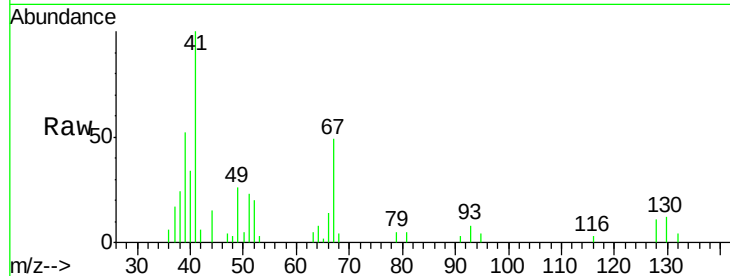
#41
Methacrylonitrile
Concen: 4.640 ug/l
RT: 7.48 min Scan# 914
Delta R.T. -0.01 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

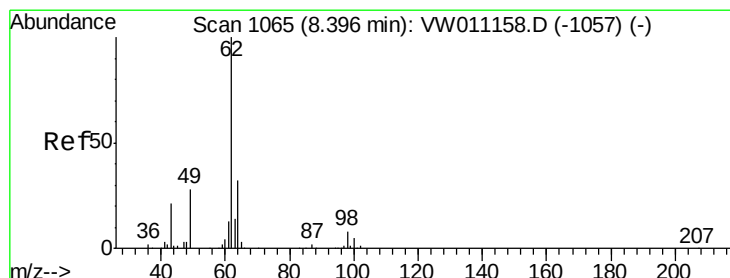
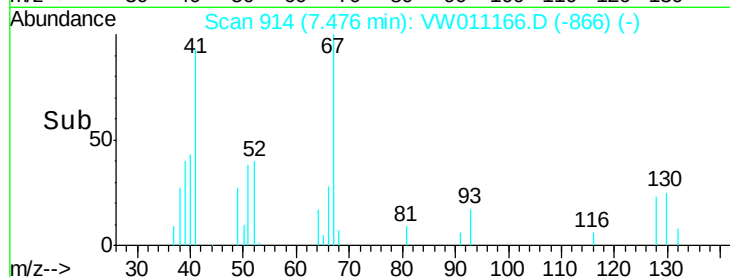
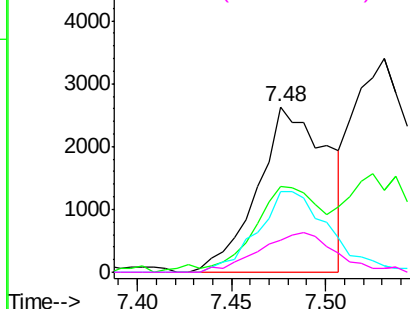
Tot Ion:	41	Resp:	6736
Ion	Ratio	Lower	Upper
41	100		
39	49.8	48.0	72.0
67	50.5	49.7	74.5
52	26.6	23.4	35.0

Manual Integrations
APPROVED

MMDadoda
7/9/2019 4:13:24 PM

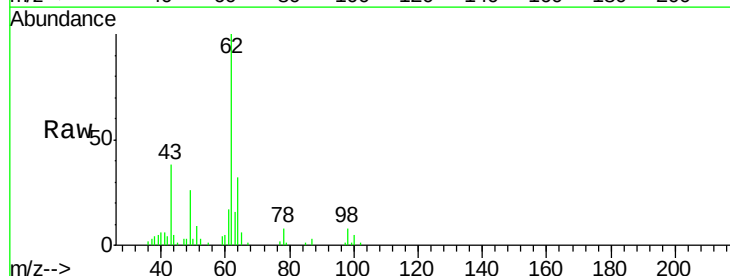


Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 39.00 (38.70 to 39.70): VW
Ion 67.00 (66.70 to 67.70): VW
Ion 52.00 (51.70 to 52.70): VW

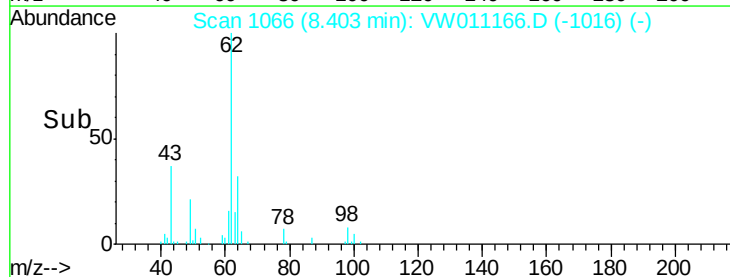
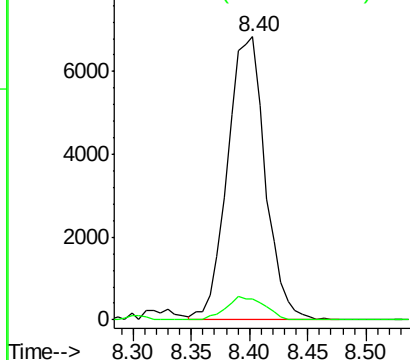


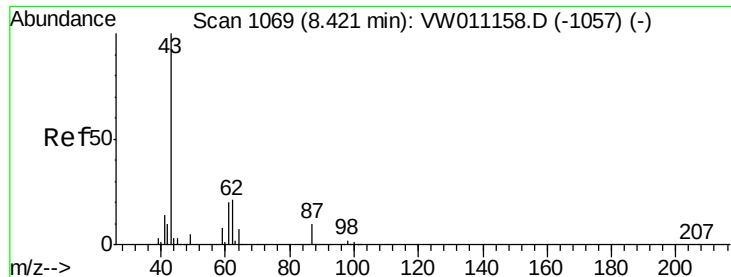
#42
1,2-Dichloroethane
Concen: 4.084 ug/l
RT: 8.40 min Scan# 1066
Delta R.T. 0.01 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion:	62	Resp:	15466
Ion	Ratio	Lower	Upper
62	100		
98	8.3	0.0	16.8



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





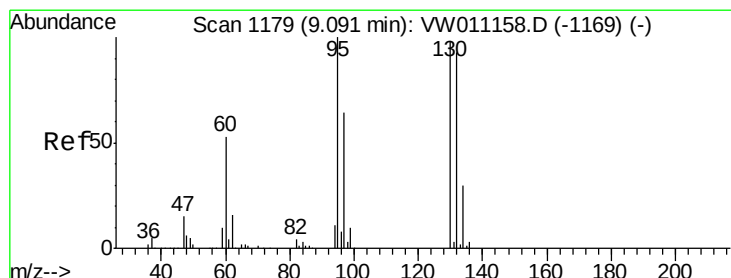
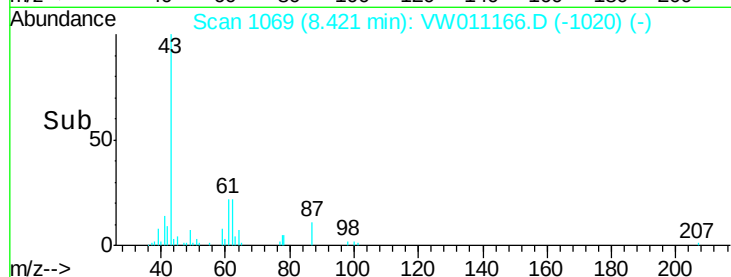
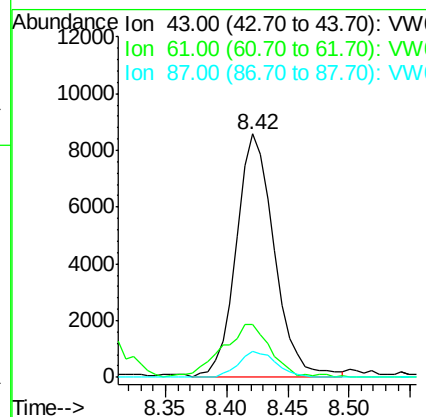
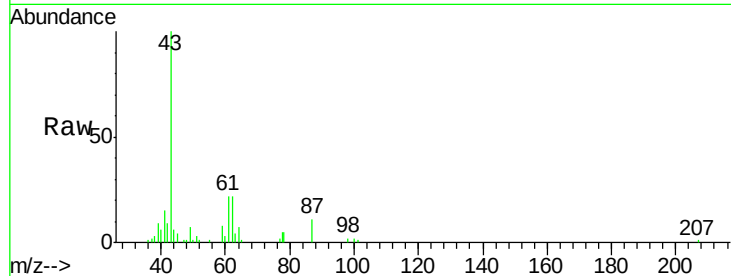
#43
Isopropyl Acetate
Concen: 3.869 ug/l
RT: 8.42 min Scan# 1069
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	27.7	20.7	31.1
87	10.5	8.1	12.1

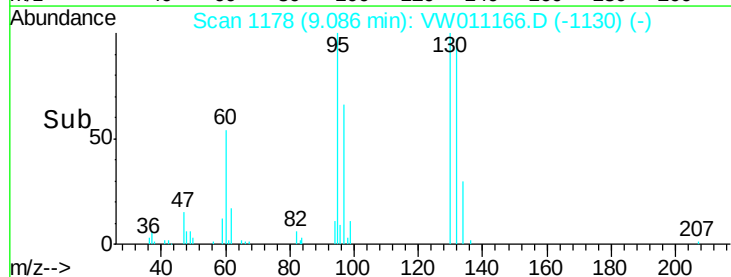
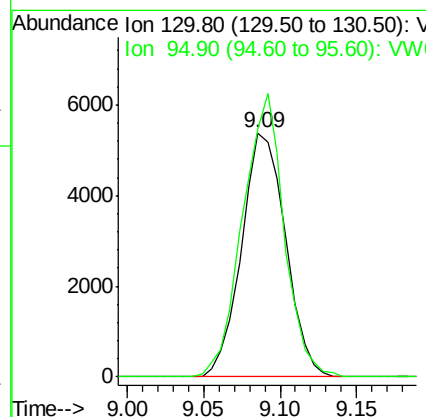
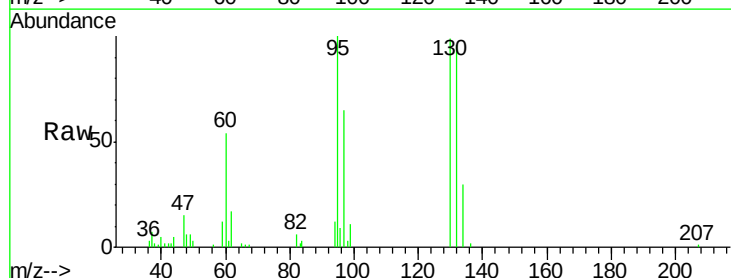
Manual Integrations
APPROVED

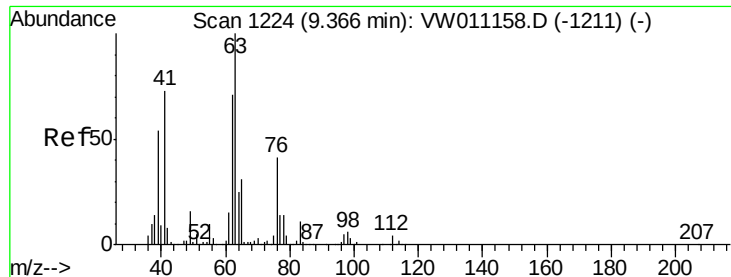
MMDadoda
7/9/2019 4:13:24 PM



#44
Trichloroethene
Concen: 3.831 ug/l
RT: 9.09 min Scan# 1178
Delta R.T. -0.01 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion	Ratio	Lower	Upper
130	100		
95	101.2	0.0	203.6





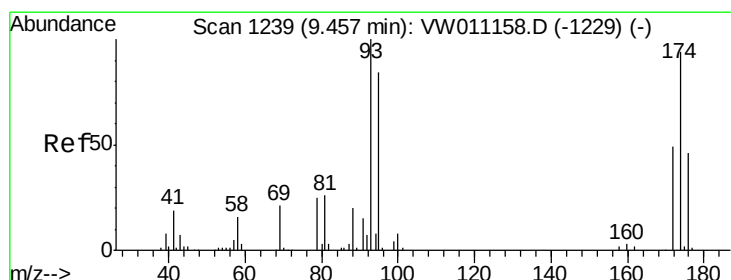
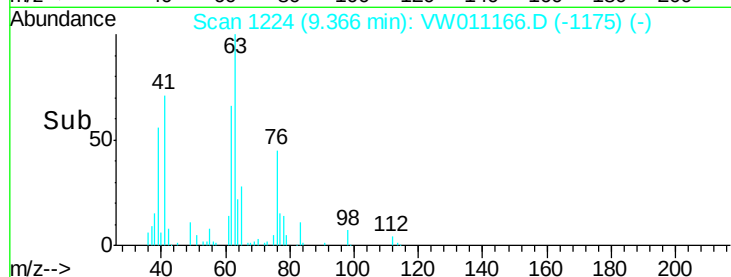
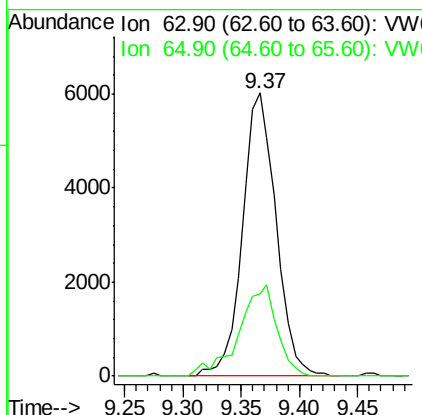
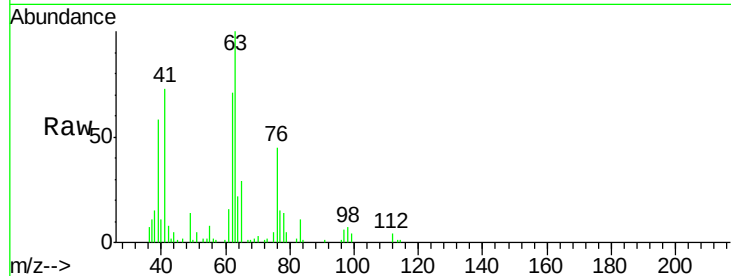
#45
 1,2-Dichloropropane
 Concen: 3.827 ug/l
 RT: 9.37 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 63 Resp: 12099
 Ion Ratio Lower Upper
 63 100
 65 29.2 24.4 36.6

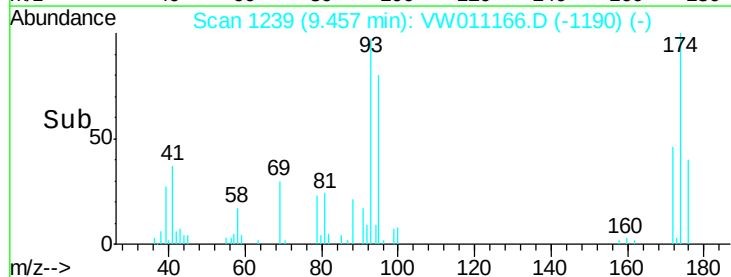
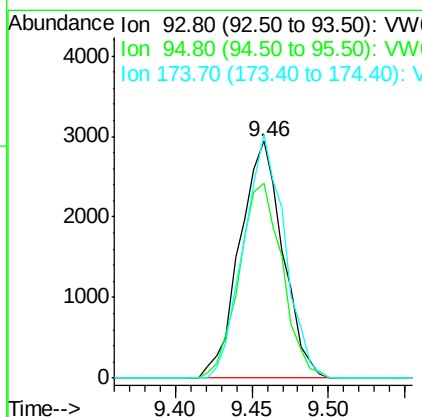
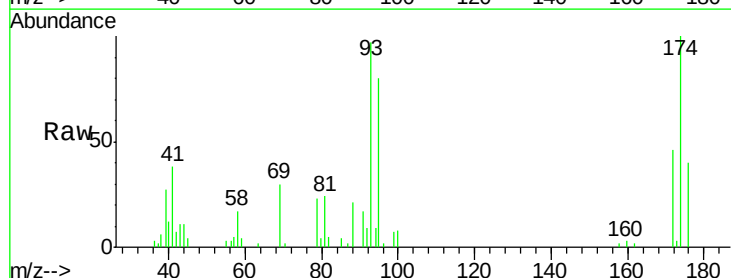
Manual Integrations
 APPROVED

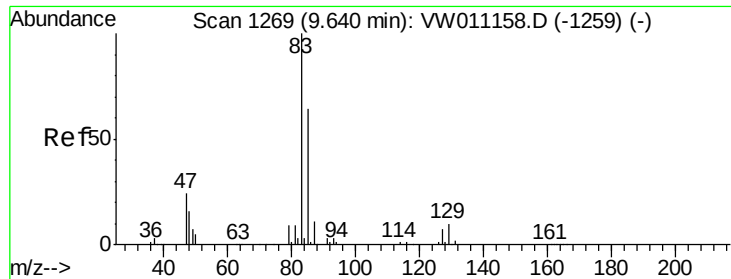
MMDadoda
 7/9/2019 4:13:24 PM



#46
 Dibromomethane
 Concen: 3.870 ug/l
 RT: 9.46 min Scan# 1239
 Delta R.T. 0.00 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

Tgt Ion: 93 Resp: 5747
 Ion Ratio Lower Upper
 93 100
 95 82.1 67.2 100.8
 174 97.8 76.3 114.5





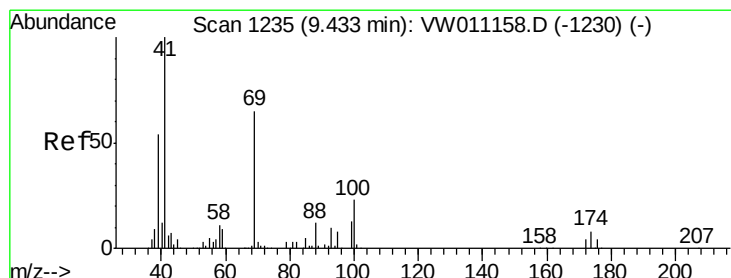
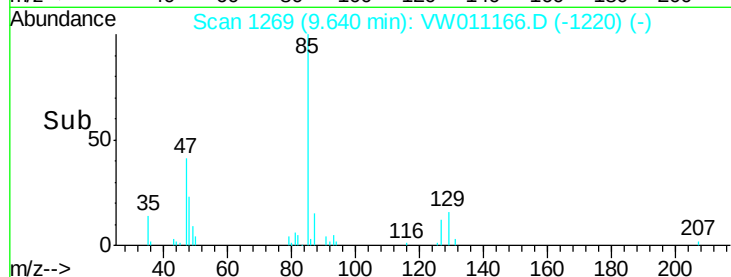
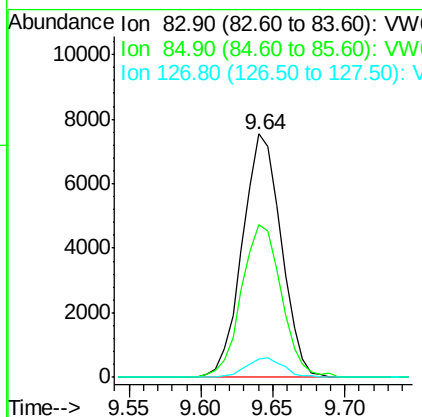
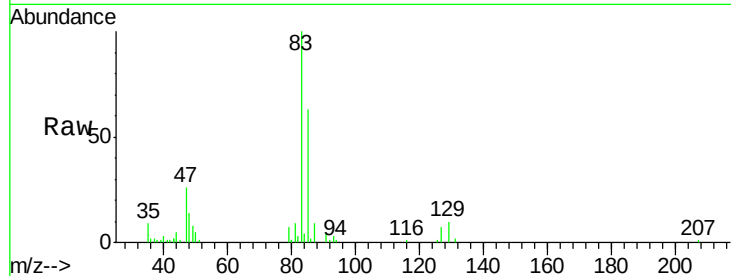
#47
 Bromodichloromethane
 Concen: 3.706 ug/l
 RT: 9.64 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2019

Tot Ion	83	Resp	14080
Ion Ratio	100	Lower	Upper
83	100		
85	62.9	51.0	76.4
127	7.4	6.0	9.0

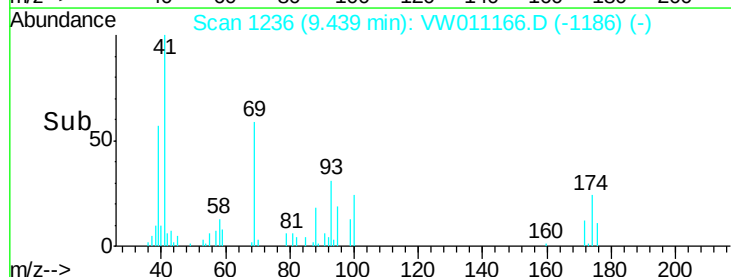
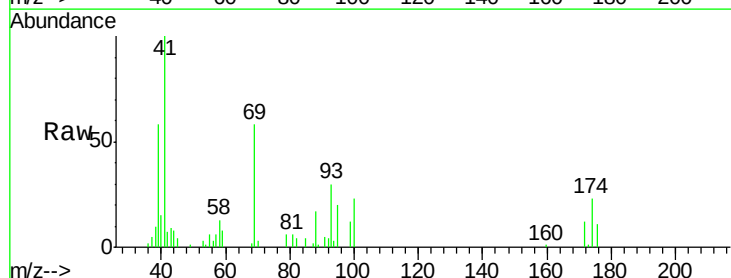
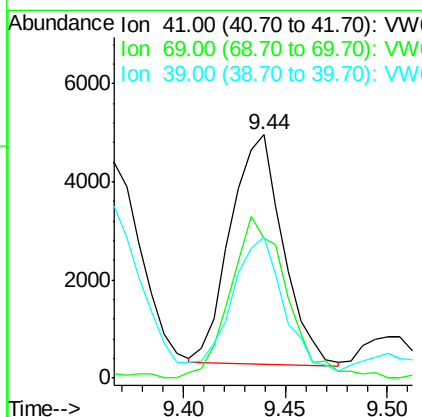
Manual Integrations
 APPROVED

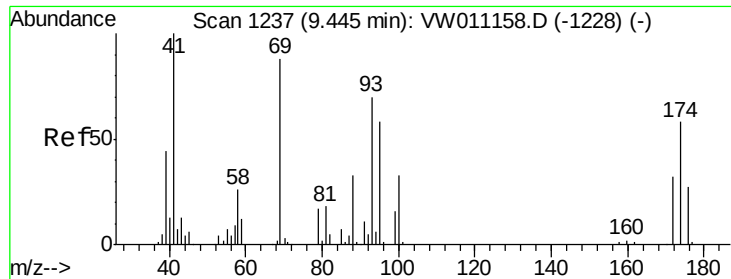
MMDadoda
 7/9/2019 4:13:24 PM



#48
 Methyl methacrylate
 Concen: 3.611 ug/l
 RT: 9.44 min Scan# 1236
 Delta R.T. 0.01 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

Tgt Ion	41	Resp	8324
Ion Ratio	100	Lower	Upper
41	100		
69	76.2	56.0	84.0
39	56.9	43.5	65.3





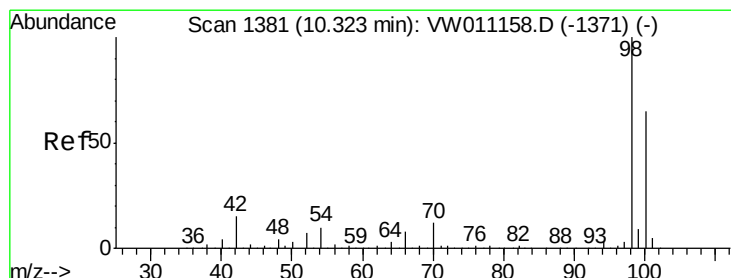
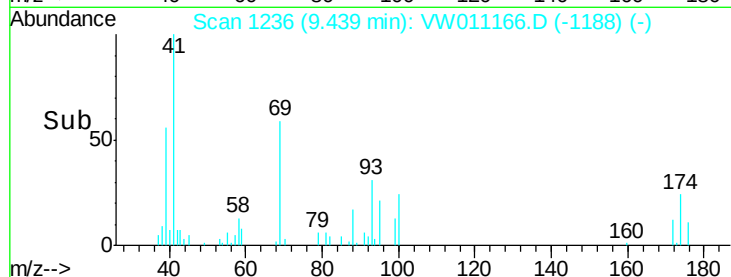
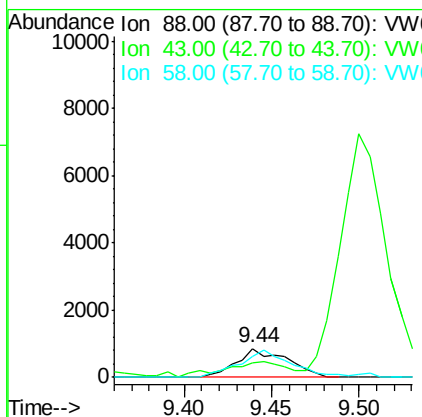
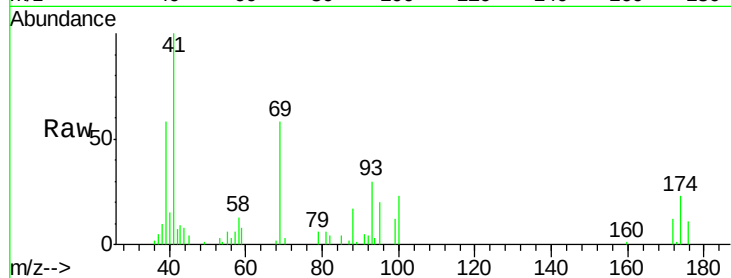
#49
1,4-Dioxane
Concen: 69.148 ug/l
RT: 9.44 min Scan# 1236
Delta R.T. -0.01 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
88	100		
43	67.4	33.4	50.0#
58	98.3	64.5	96.7#

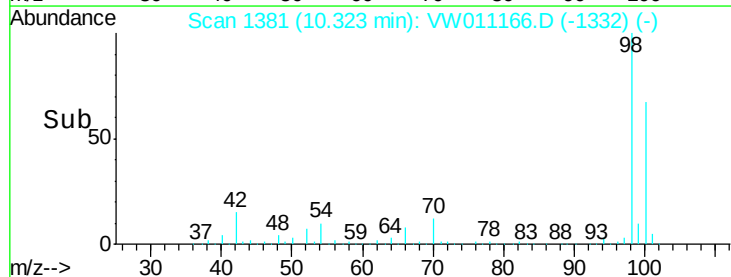
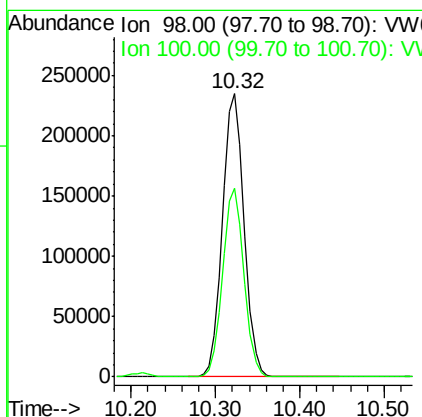
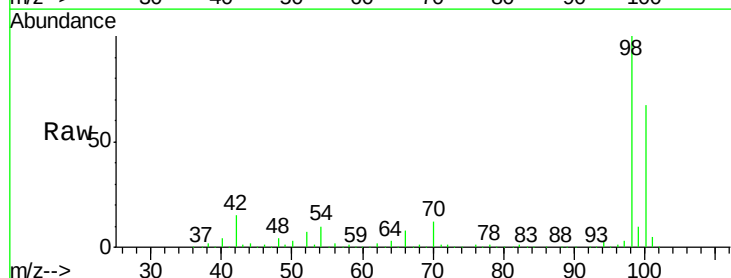
Manual Integrations
APPROVED

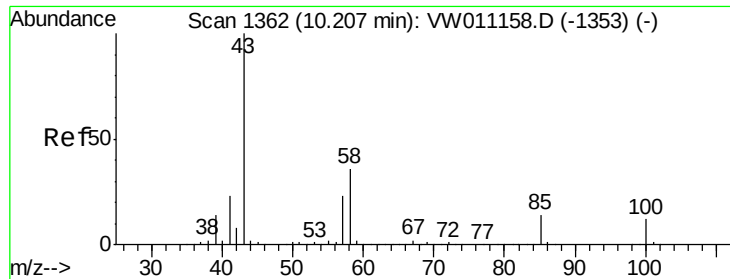
MMDadoda
7/9/2019 4:13:24 PM



#50
Toluene-d8
Concen: 43.400 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.7	52.4	78.6





#51

4-Methyl-2-Pentanone

Concen: 19.068 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

ClientSampled :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 43 Resp: 47729

Ion Ratio Lower Upper

43 100

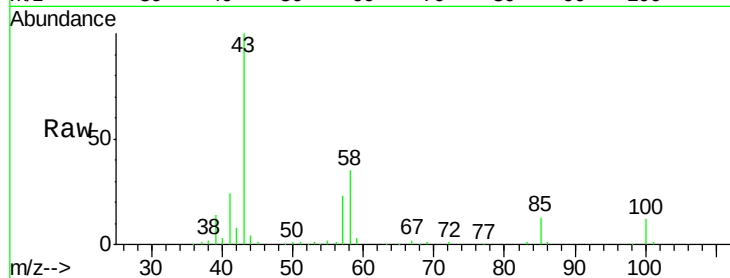
58 34.8 28.2 42.2

Manual Integrations

APPROVED

MMDadoda

7/9/2019 4:13:24 PM



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

10.21

25000

20000

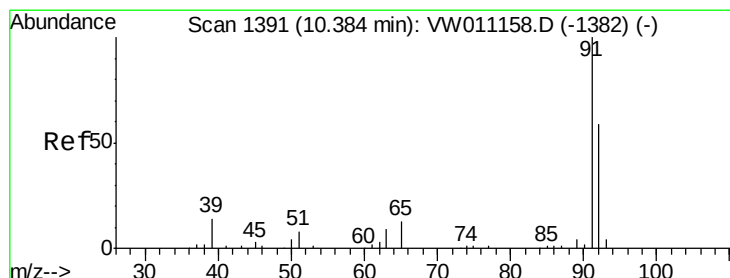
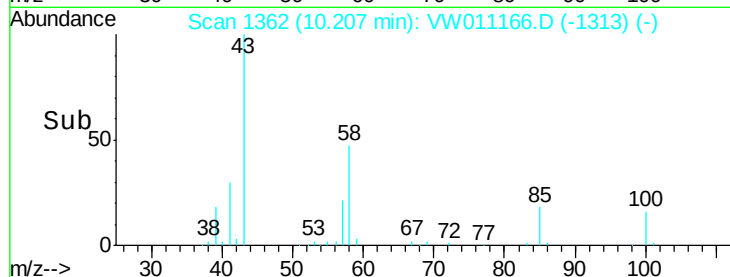
15000

10000

5000

0

Time-->



#52

Toluene

Concen: 3.883 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW011166.D

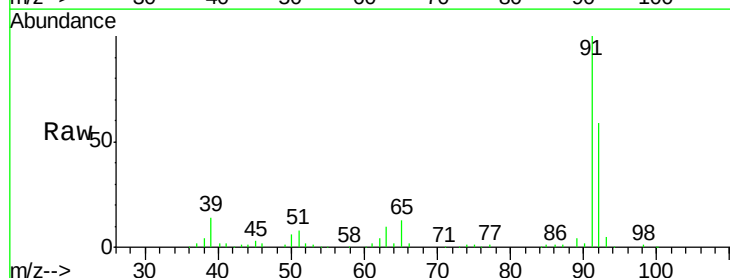
Acq: 08 Jul 2019 17:40

Tgt Ion: 92 Resp: 27499

Ion Ratio Lower Upper

92 100

91 172.4 136.6 205.0



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW

10.38

30000

25000

20000

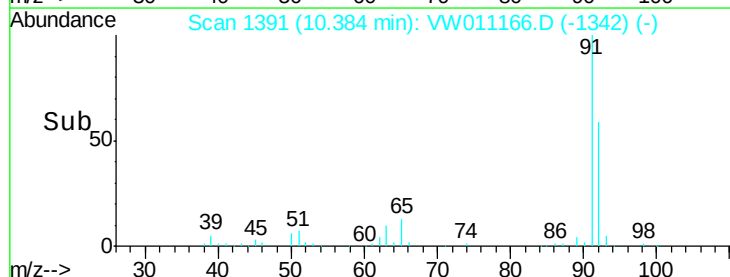
15000

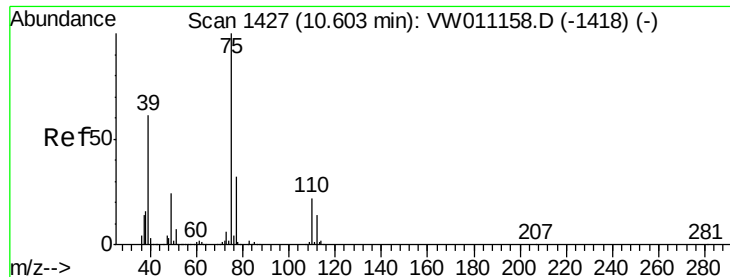
10000

5000

0

Time-->





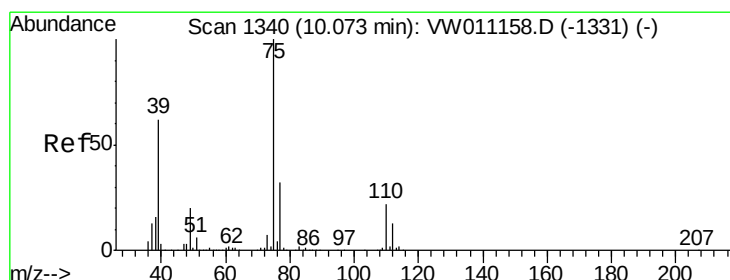
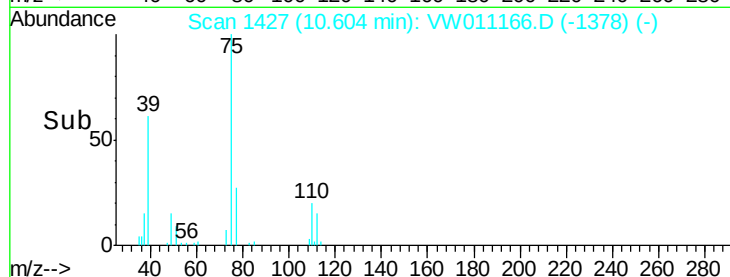
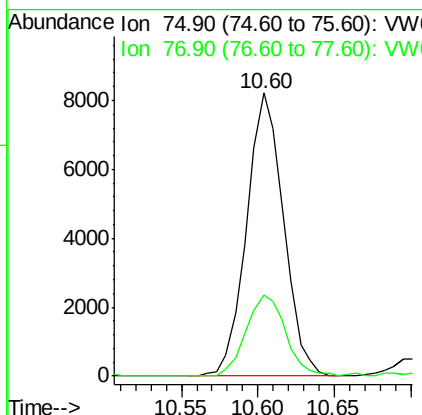
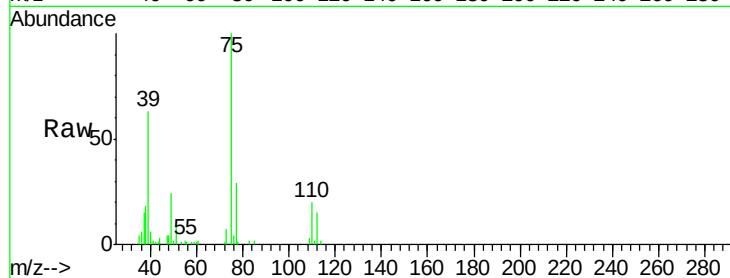
#53
t-1,3-Dichloropropene
Concen: 3.412 ug/l
RT: 10.60 min Scan# 1427
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 75 Resp: 13801
Ion Ratio Lower Upper
75 100
77 28.6 25.4 38.0

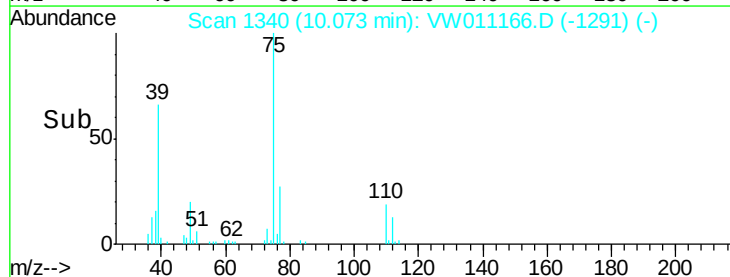
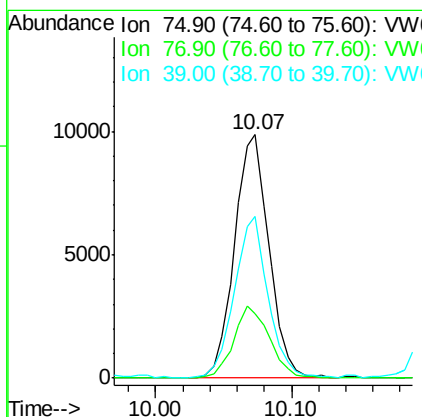
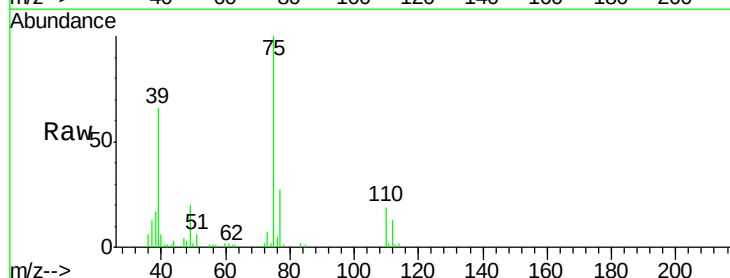
Manual Integrations
APPROVED

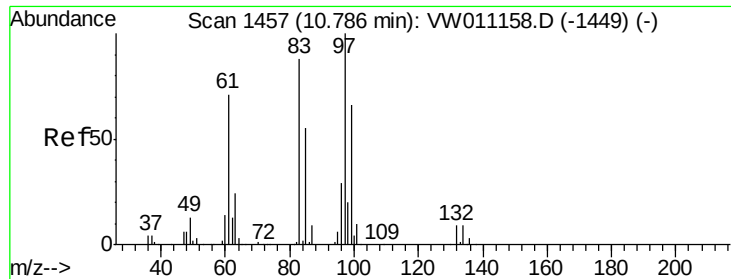
MMDadoda
7/9/2019 4:13:24 PM



#54
cis-1,3-Dichloropropene
Concen: 3.657 ug/l
RT: 10.07 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion: 75 Resp: 17408
Ion Ratio Lower Upper
75 100
77 26.6 25.7 38.5
39 66.4 49.8 74.8





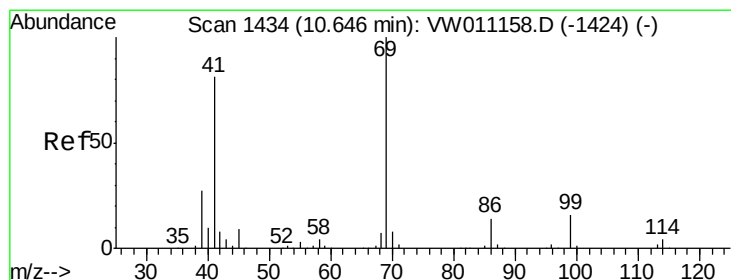
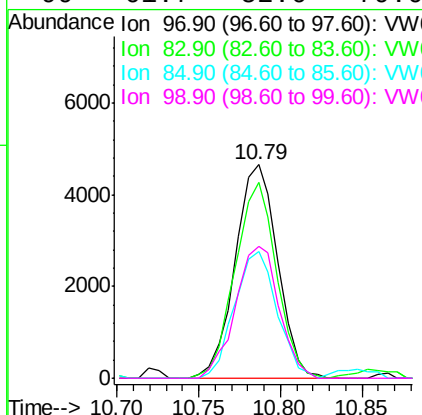
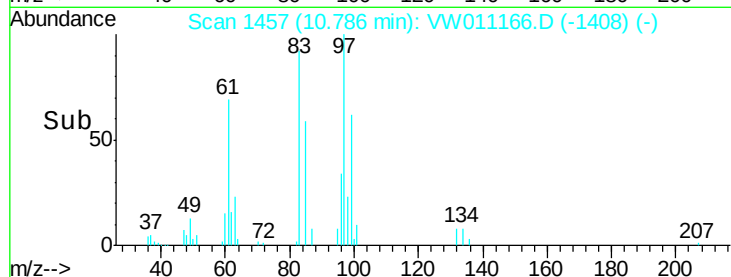
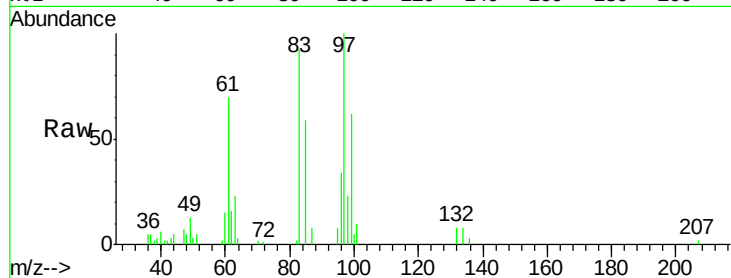
#55
1,1,2-Trichloroethane
Concen: 4.000 ug/l
RT: 10.79 min Scan# 1457
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
97	100		
83	91.8	70.2	105.4
85	59.2	44.2	66.2
99	61.7	52.6	79.0

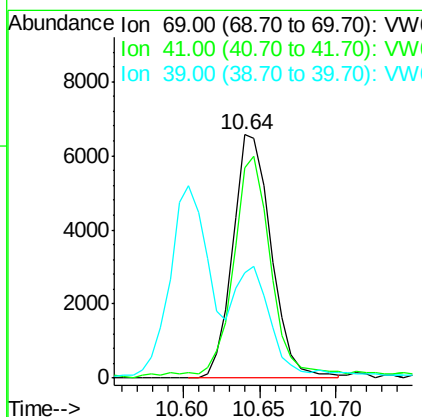
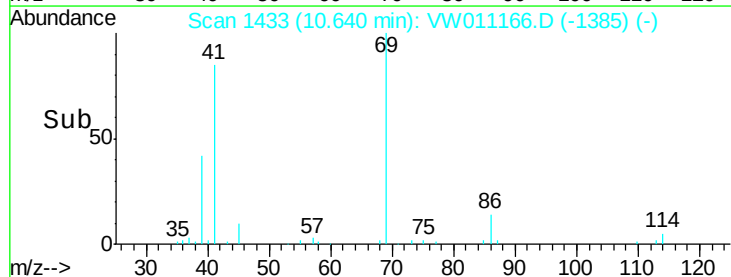
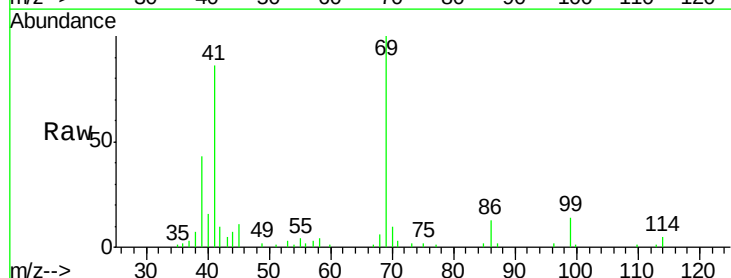
Manual Integrations
APPROVED

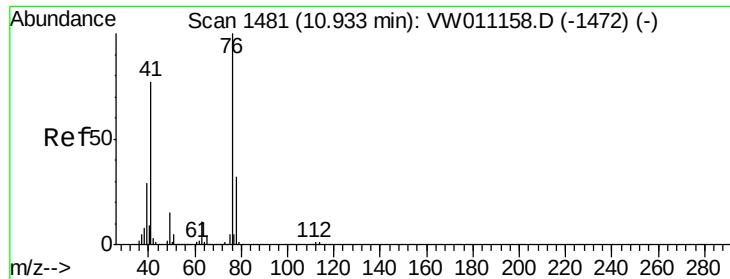
MMDadoda
7/9/2019 4:13:24 PM



#56
Ethyl methacrylate
Concen: 3.570 ug/l
RT: 10.64 min Scan# 1433
Delta R.T. -0.01 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion	Ratio	Lower	Upper
69	100		
41	92.0	66.5	99.7
39	38.1	32.5	48.7





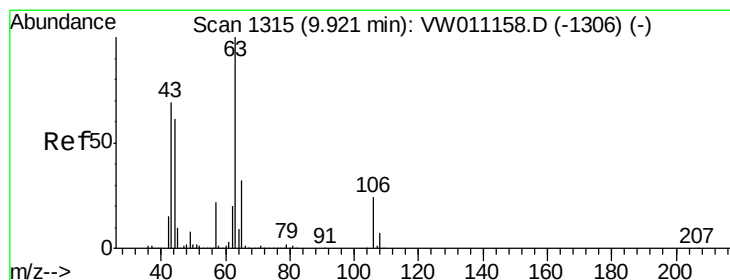
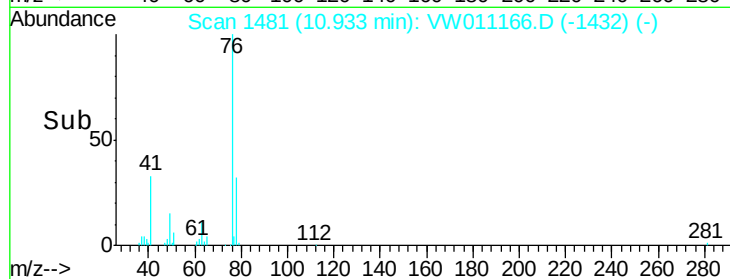
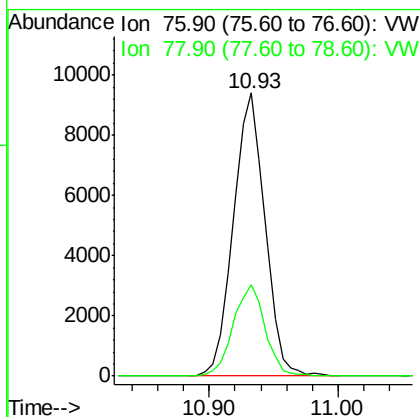
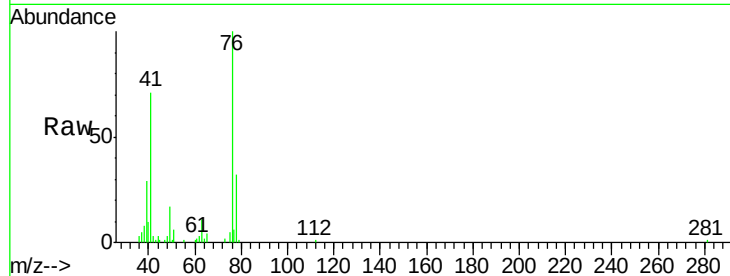
#57
 1,3-Dichloropropane
 Concen: 4.025 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. 0.00 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 76 Resp: 16035
 Ion Ratio Lower Upper
 76 100
 78 32.5 26.2 39.2

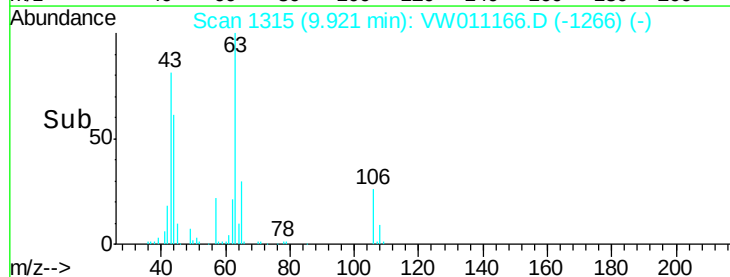
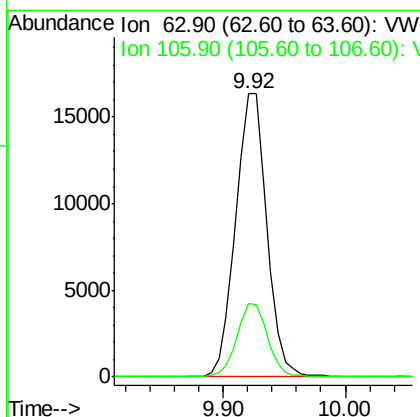
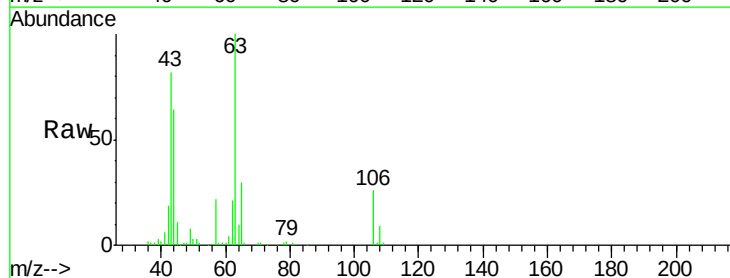
Manual Integrations
 APPROVED

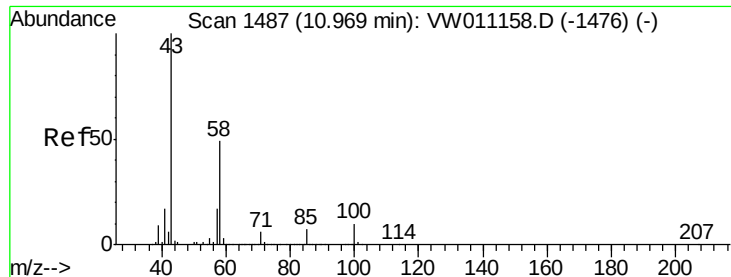
MMDadoda
 7/9/2019 4:13:24 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 19.435 ug/l
 RT: 9.92 min Scan# 1315
 Delta R.T. 0.00 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

Tgt Ion: 63 Resp: 28900
 Ion Ratio Lower Upper
 63 100
 106 25.3 19.4 29.0





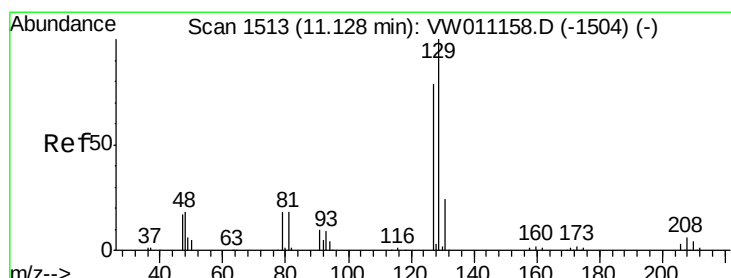
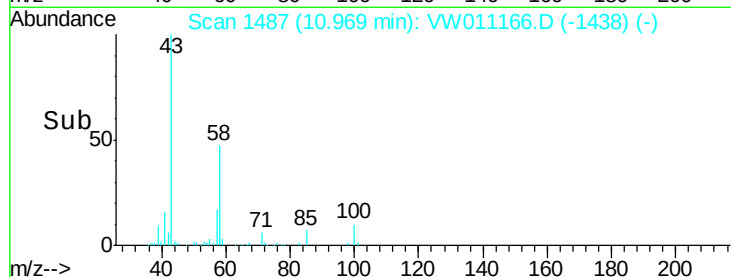
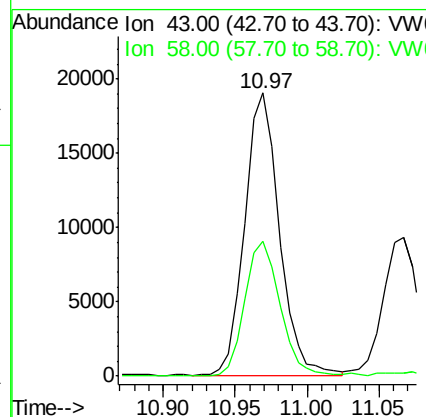
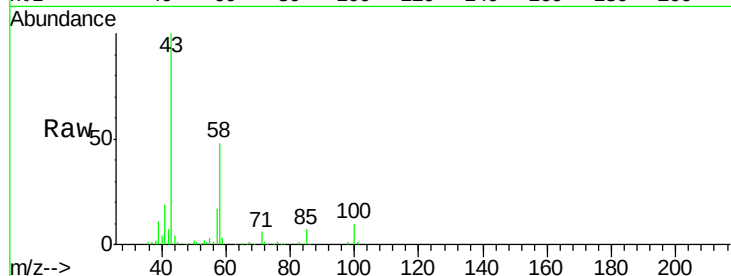
#59
2-Hexanone
Concen: 18.233 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 43 Resp: 31651
Ion Ratio Lower Upper
43 100
58 48.6 24.4 73.4

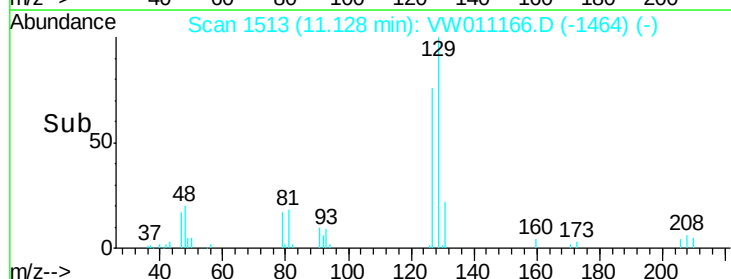
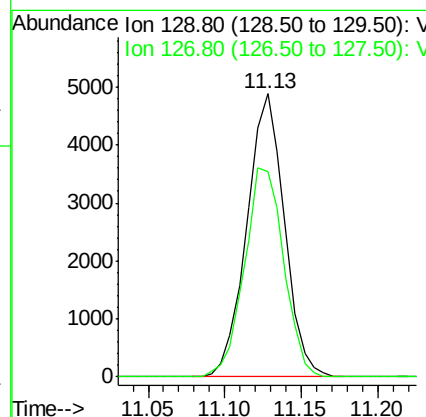
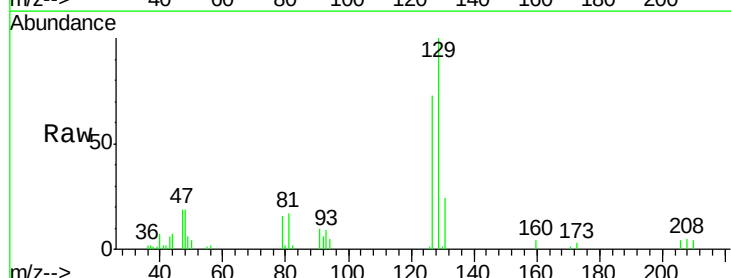
Manual Integrations
APPROVED

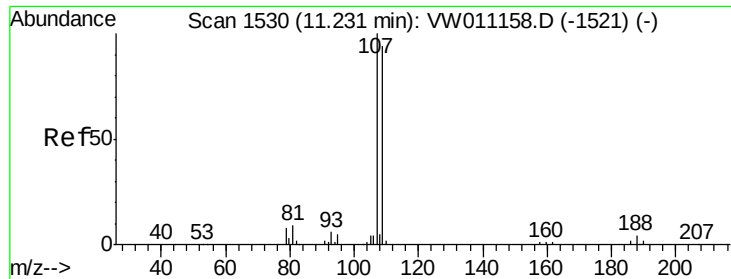
MMDadoda
7/9/2019 4:13:24 PM



#60
Dibromochloromethane
Concen: 3.600 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion: 129 Resp: 8316
Ion Ratio Lower Upper
129 100
127 77.4 39.1 117.3





#61

1,2-Dibromoethane

Concen: 3.928 ug/l

RT: 11.23 min Scan# 1530

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 107 Resp: 7839

Ion Ratio Lower Upper

107 100

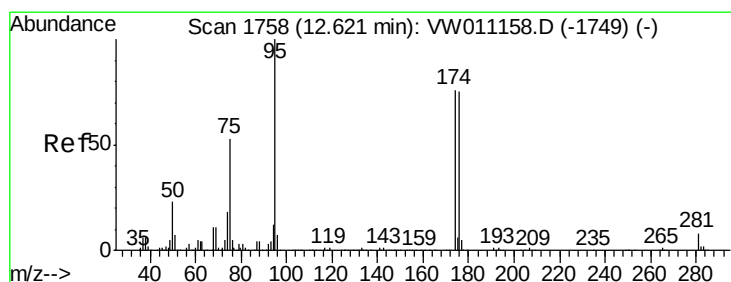
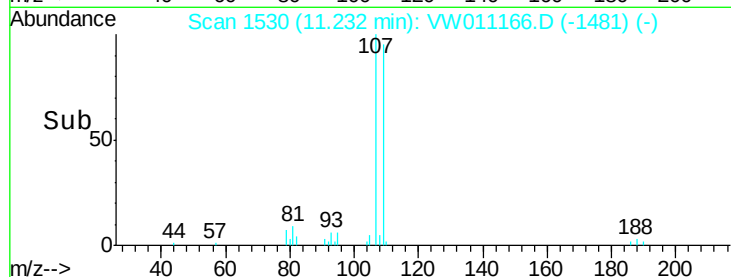
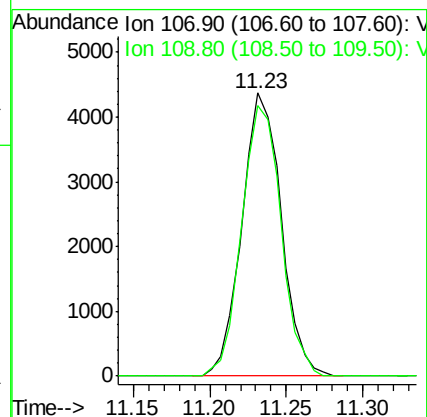
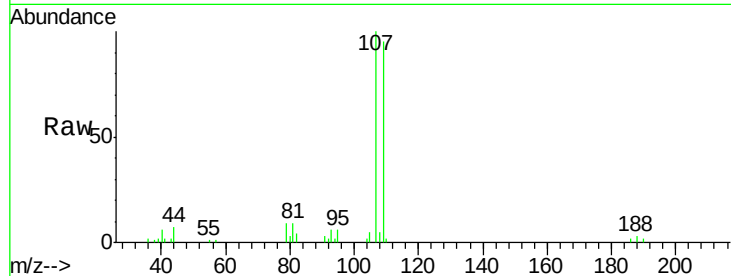
109 95.4 75.2 112.8

Manual Integrations

APPROVED

MMDadoda

7/9/2019 4:13:24 PM



#62

4-Bromofluorobenzene

Concen: 43.592 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.01 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

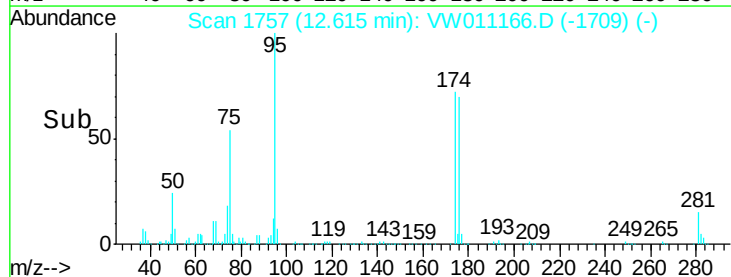
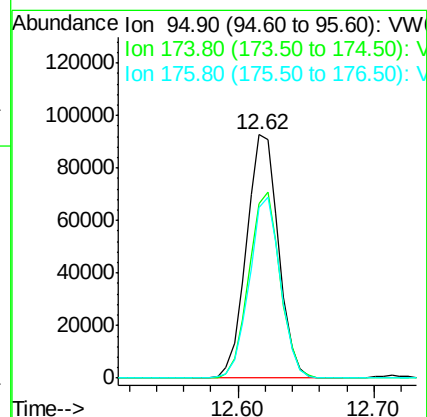
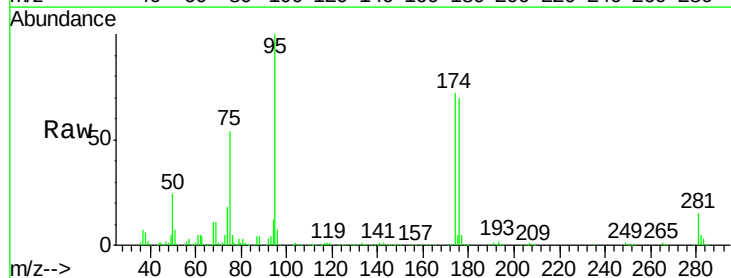
Tgt Ion: 95 Resp: 152701

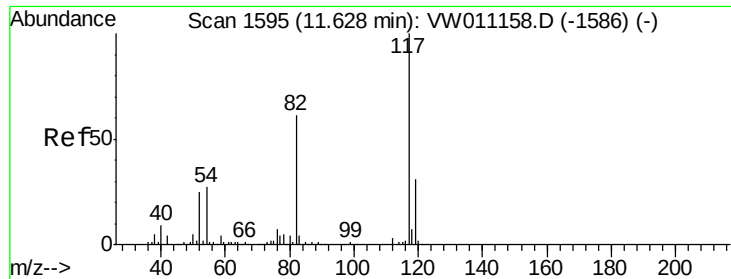
Ion Ratio Lower Upper

95 100

174 74.6 0.0 147.6

176 72.1 0.0 144.6





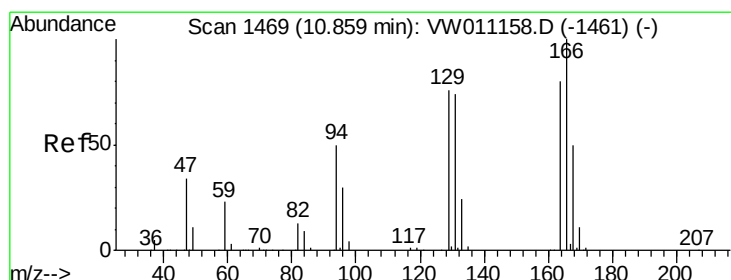
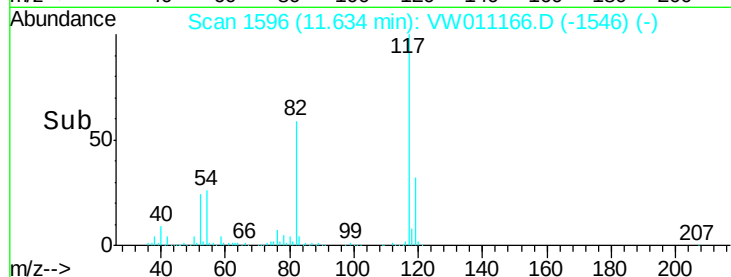
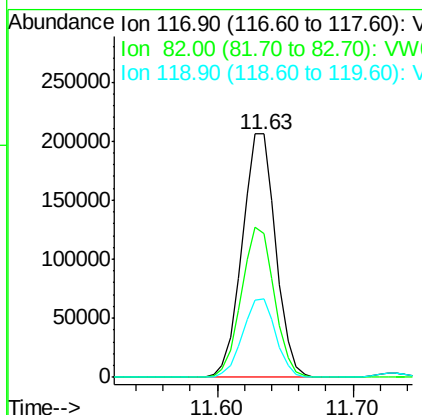
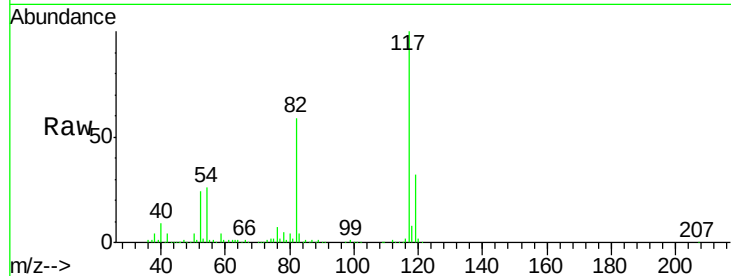
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.01 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Resp	Lower	Upper
117	100	354154		
82	59.0	48.9	73.3	
119	32.1	25.0	37.6	

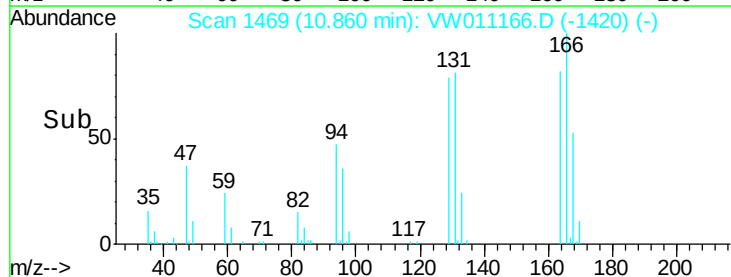
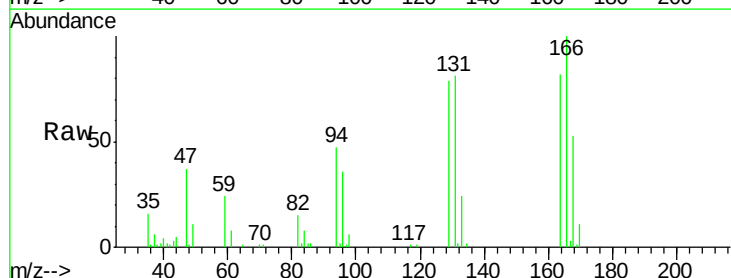
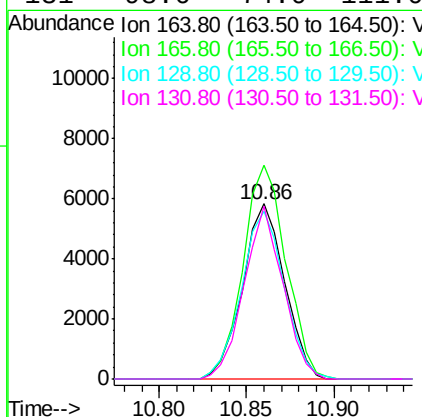
Manual Integrations
APPROVED

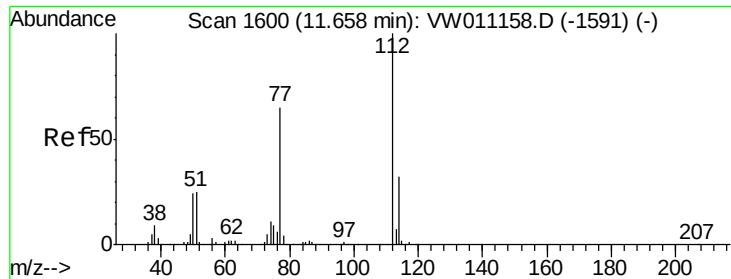
MMDadoda
7/9/2019 4:13:24 PM



#64
Tetrachloroethene
Concen: 4.100 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	9798		
166	122.2	99.7	149.5	
129	96.0	76.2	114.2	
131	98.6	74.0	111.0	





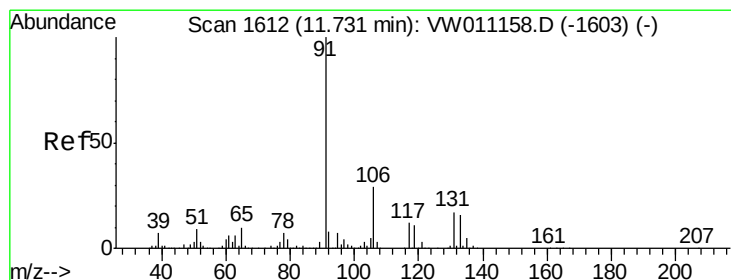
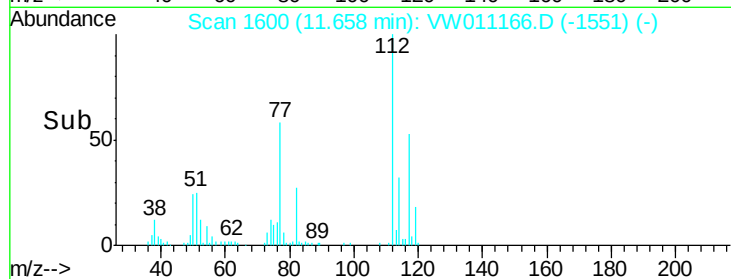
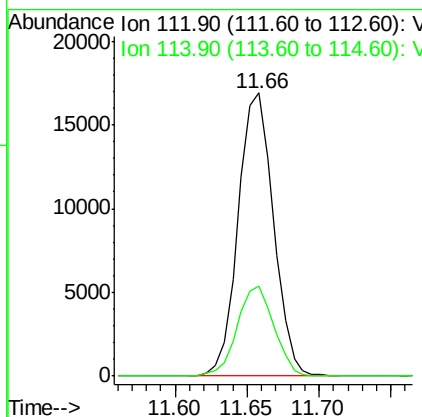
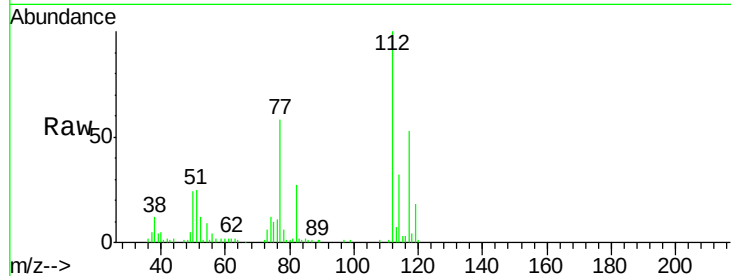
#65
Chlorobenzene
Concen: 3.993 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Resp	Lower	Upper
112	100	28752		
114	31.9	25.5	38.3	

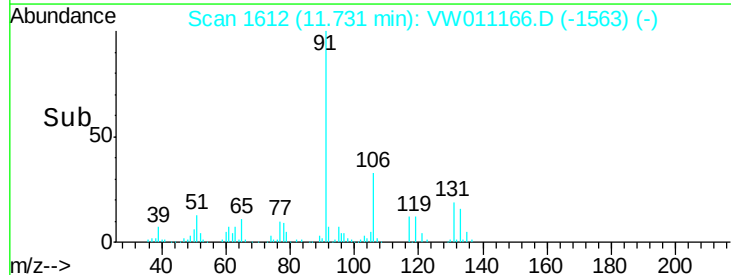
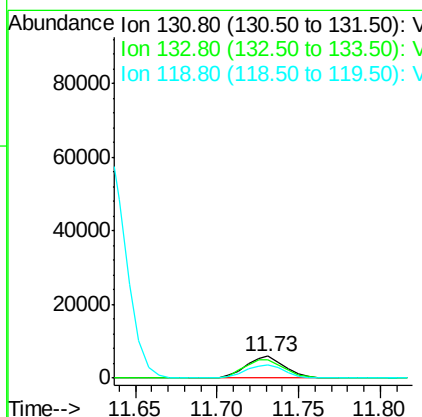
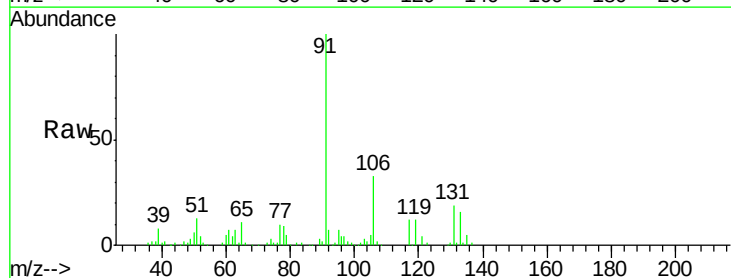
Manual Integrations
APPROVED

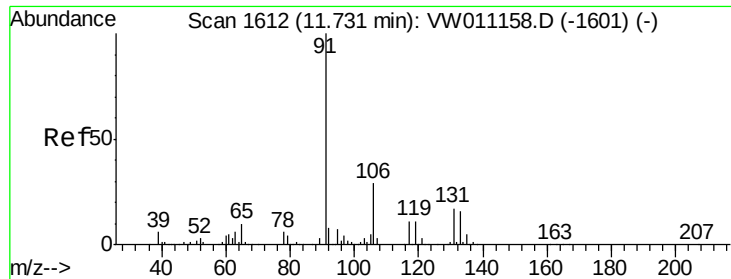
MMDadoda
7/9/2019 4:13:24 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 3.800 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	9634		
133	90.1	47.9	143.8	
119	64.1	33.1	99.2	





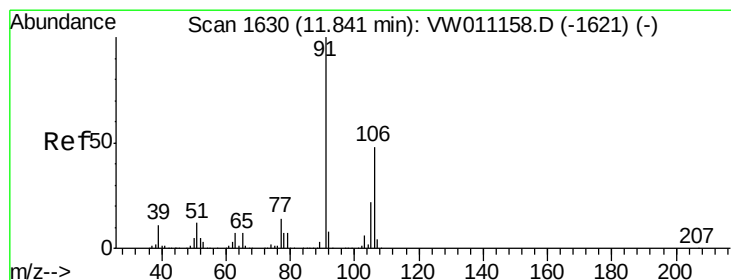
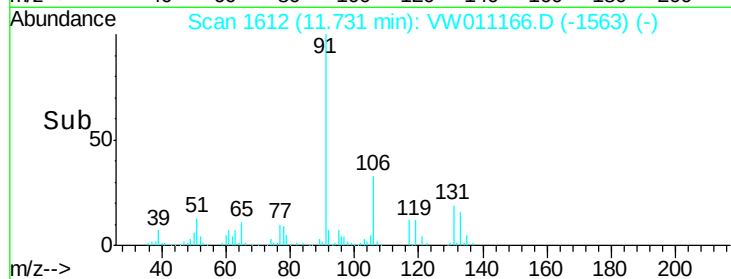
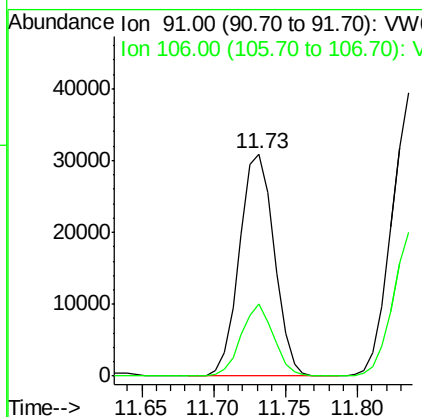
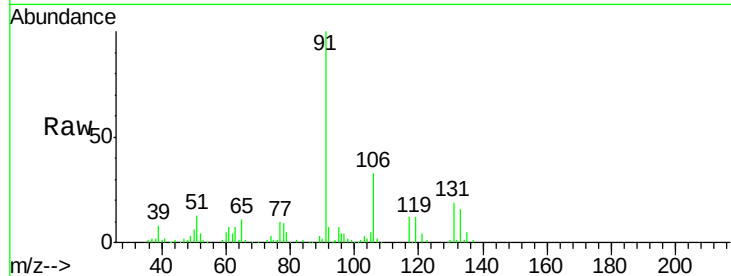
#67
Ethyl Benzene
Concen: 3.772 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 91 Resp: 51994
Ion Ratio Lower Upper
91 100
106 32.5 23.5 35.3

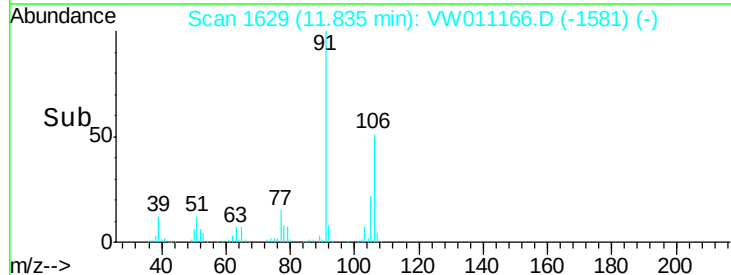
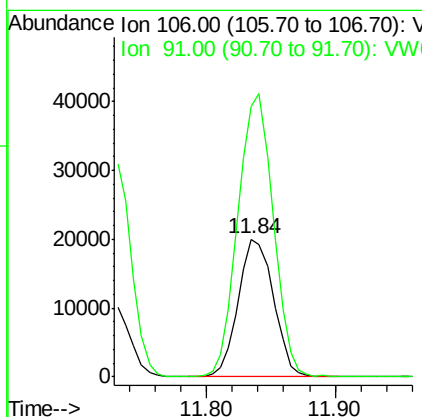
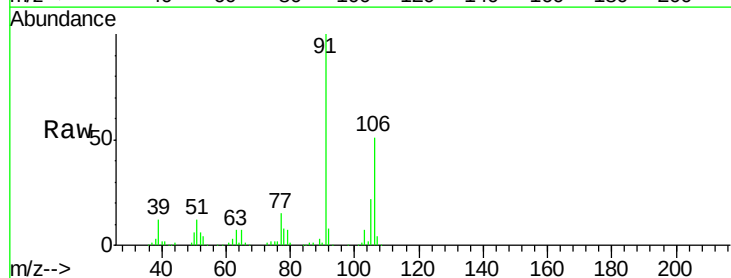
Manual Integrations
APPROVED

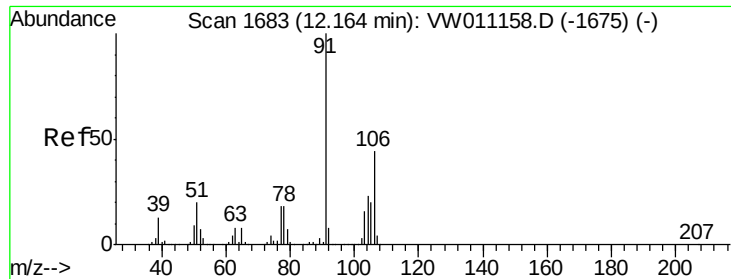
MMDadoda
7/9/2019 4:13:24 PM



#68
m/p-Xylenes
Concen: 7.620 ug/l
RT: 11.84 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion: 106 Resp: 38008
Ion Ratio Lower Upper
106 100
91 206.2 167.7 251.5





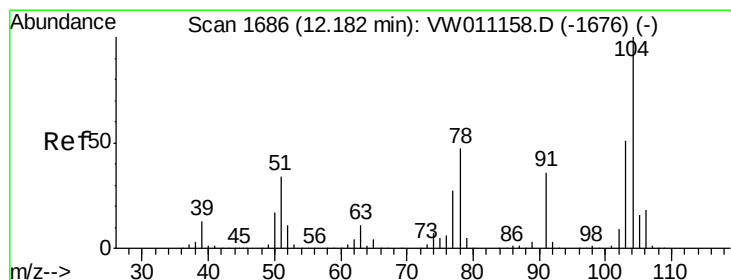
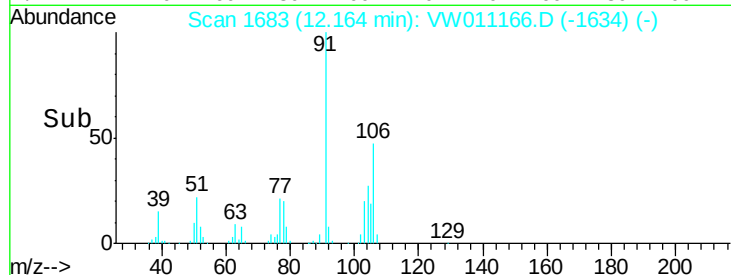
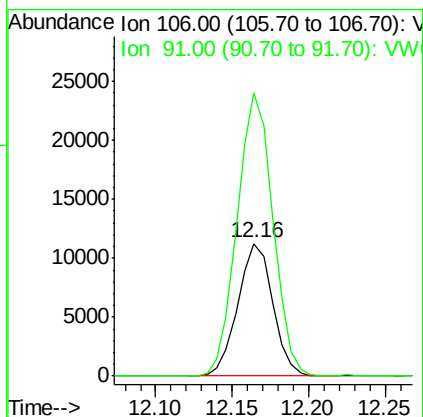
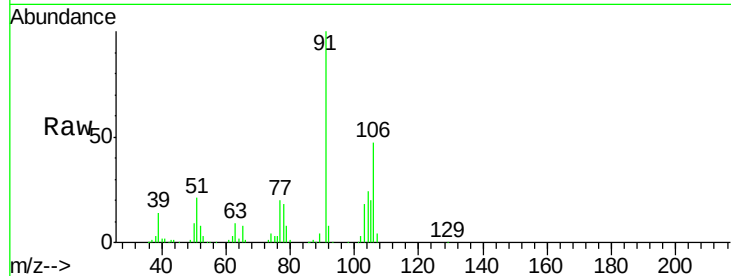
#69
o-Xylene
Concen: 3.791 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion:106 Resp: 17823
Ion Ratio Lower Upper
106 100
91 219.4 110.7 332.1

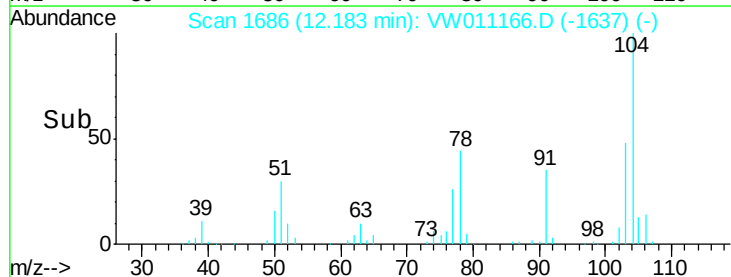
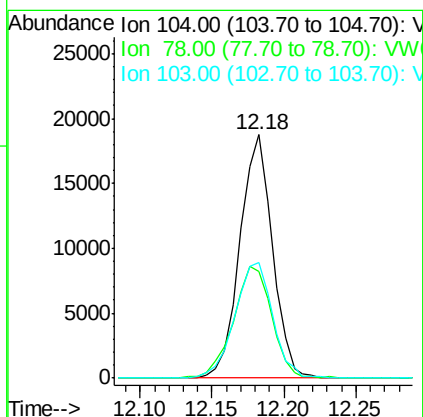
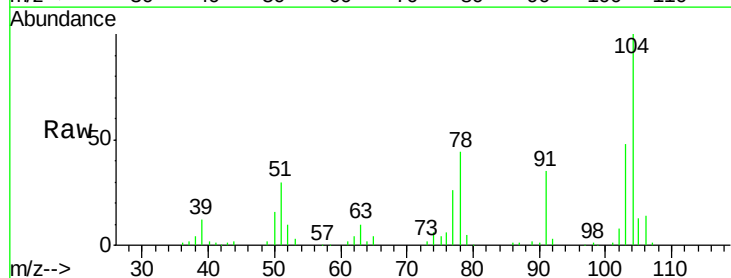
Manual Integrations
APPROVED

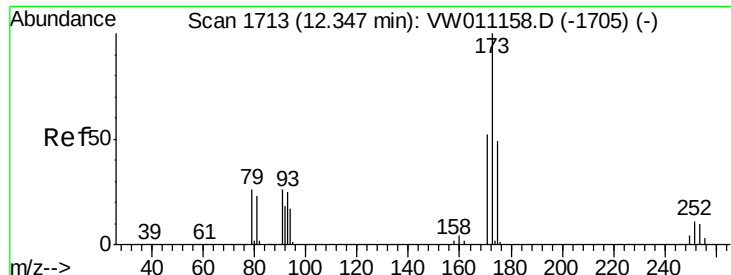
MMDadoda
7/9/2019 4:13:24 PM



#70
Styrene
Concen: 3.619 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion:104 Resp: 29363
Ion Ratio Lower Upper
104 100
78 54.8 43.1 64.7
103 55.4 44.1 66.1





#71

Bromoform

Concen: 3.457 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

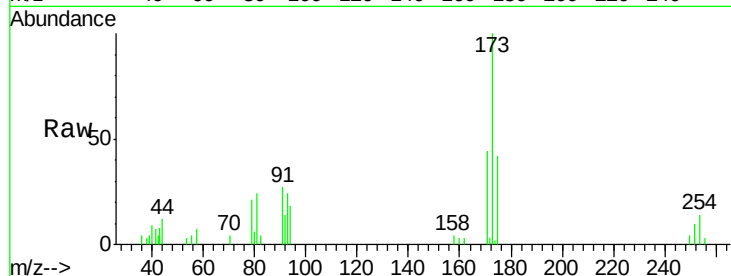
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

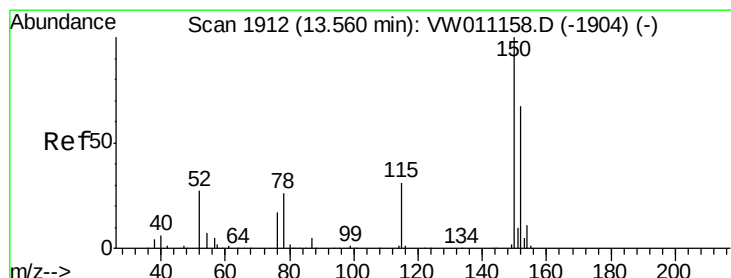
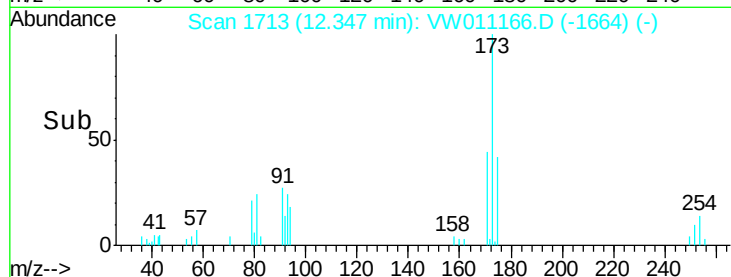
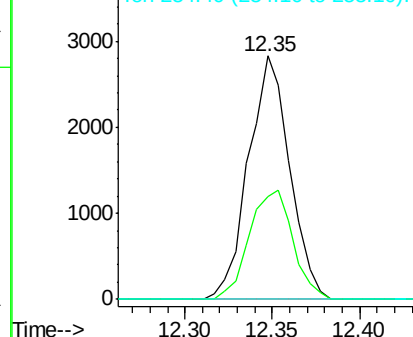
Tot Ion:	173	Resp:	4660
Ion Ratio	Lower	Upper	
173	100		
175	47.4	24.8	74.3
254	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
7/9/2019 4:13:24 PM



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

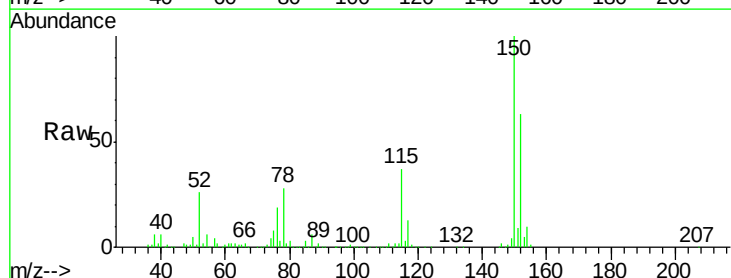
RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

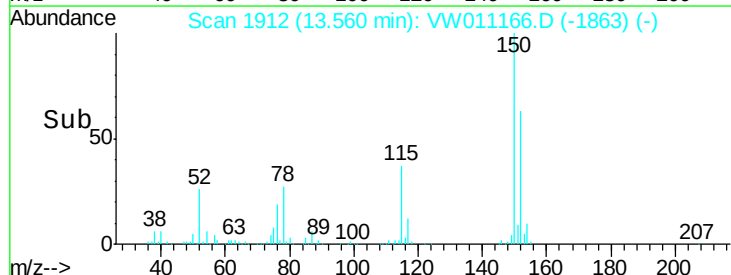
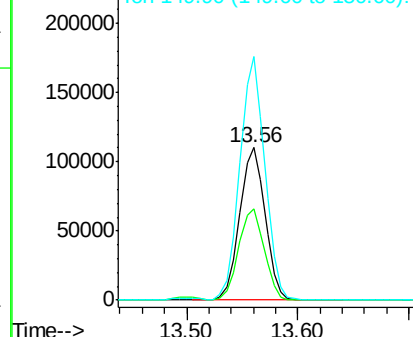
Lab File: VW011166.D

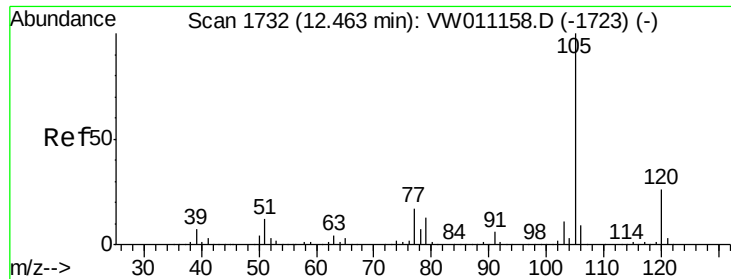
Acq: 08 Jul 2019 17:40

Tgt Ion:	152	Resp:	173983
Ion Ratio	Lower	Upper	
152	100		
115	59.9	30.1	90.3
150	157.3	0.0	346.0



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: 3.775 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 105 Resp: 49102

Ion Ratio Lower Upper

105 100

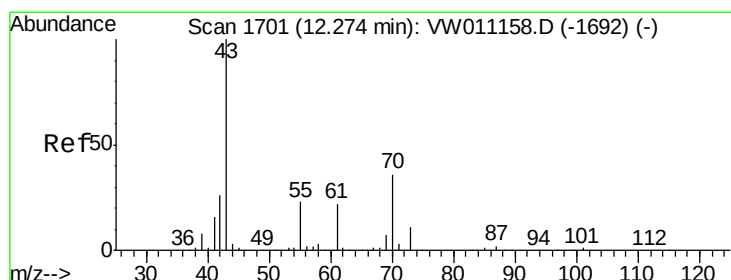
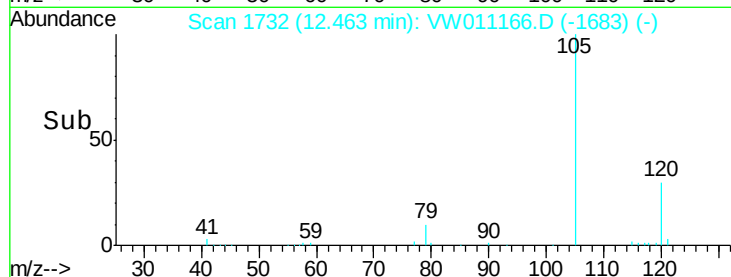
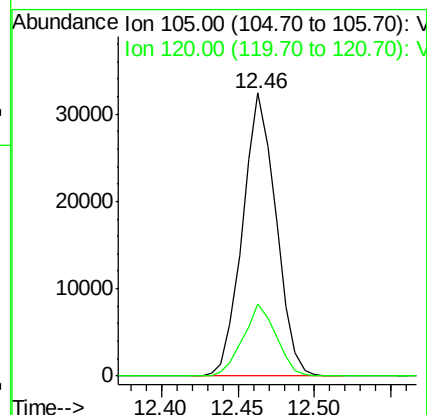
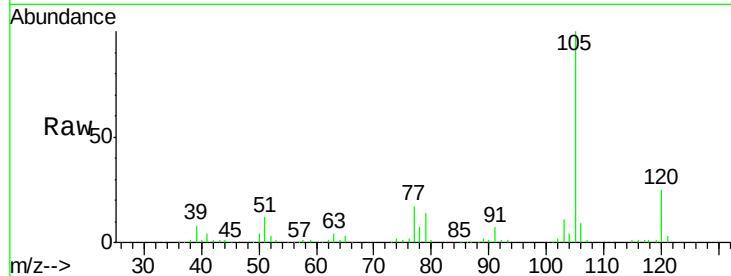
120 25.3 12.8 38.3

Manual Integrations

APPROVED

MMDadoda

7/9/2019 4:13:24 PM



#74

N-ethyl acetate

Concen: 3.567 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Tgt Ion: 43 Resp: 16157

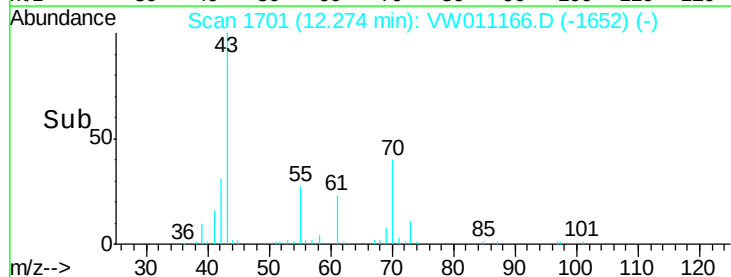
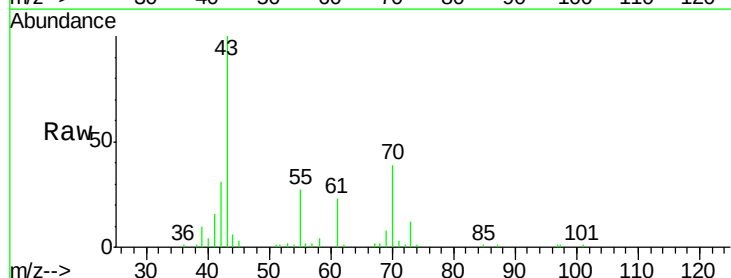
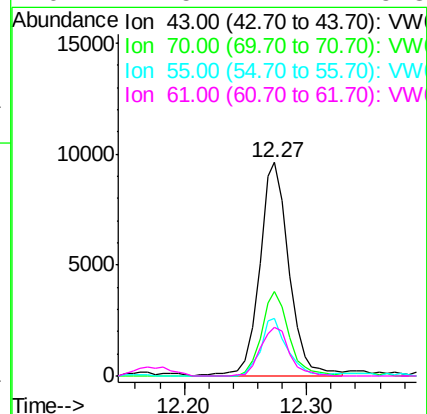
Ion Ratio Lower Upper

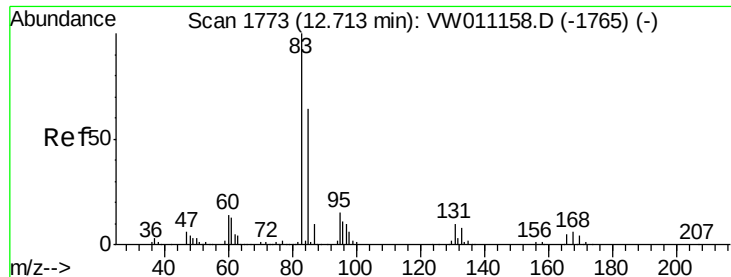
43 100

70 36.5 28.5 42.7

55 24.5 18.1 27.1

61 22.5 17.2 25.8





#75

1,1,2,2-Tetrachloroethane

Concen: 3.880 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

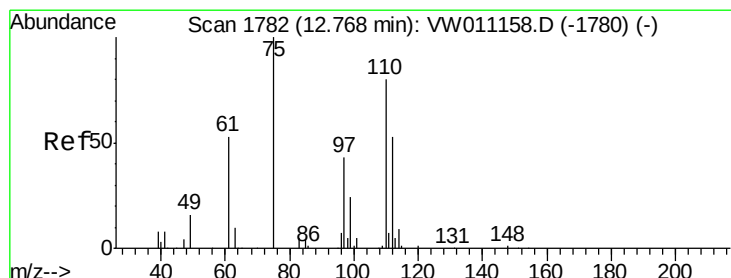
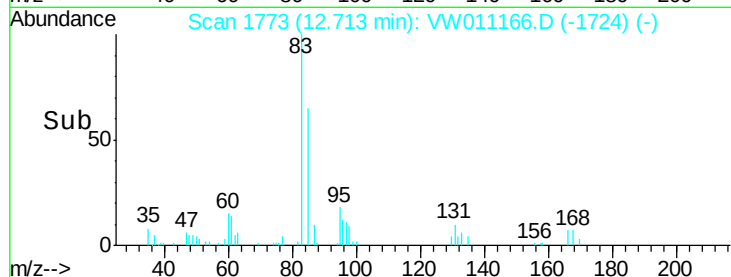
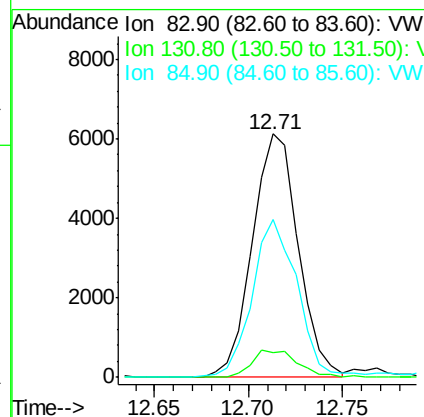
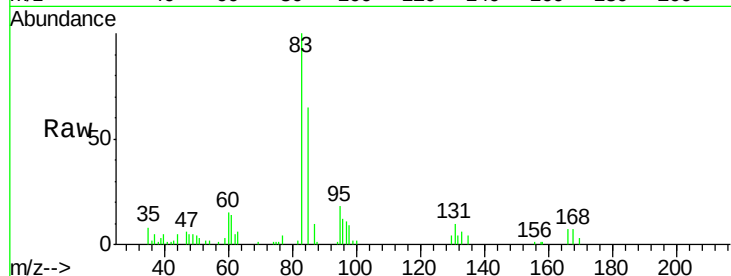
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion:	83	Resp:	10345
Ion Ratio	Lower	Upper	
83	100		
131	11.1	5.0	15.0
85	63.7	31.6	94.8

Manual Integrations
APPROVED

MMDadoda
7/9/2019 4:13:24 PM



#76

1,2,3-Trichloropropane

Concen: 4.277 ug/l m

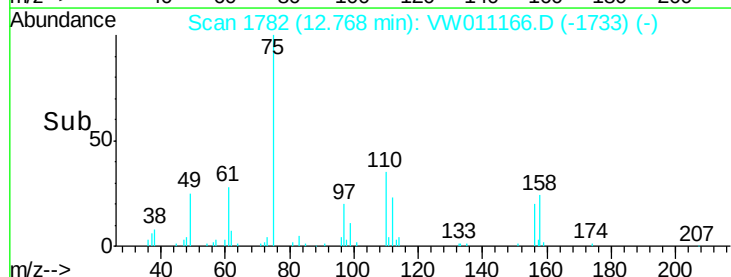
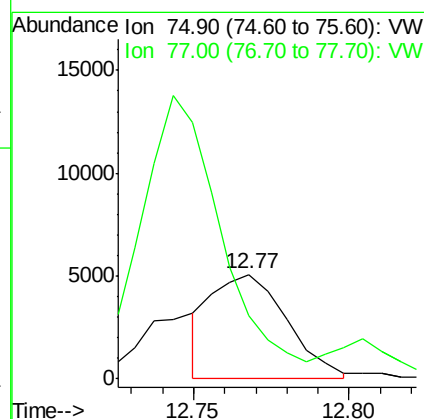
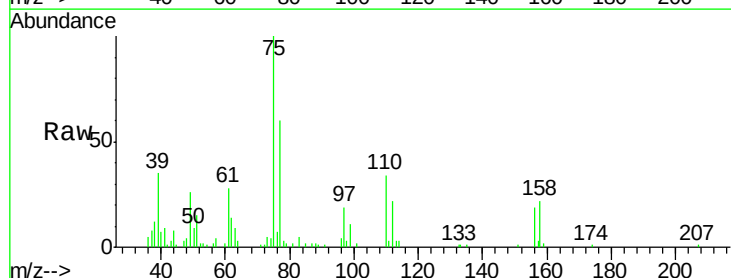
RT: 12.77 min Scan# 1782

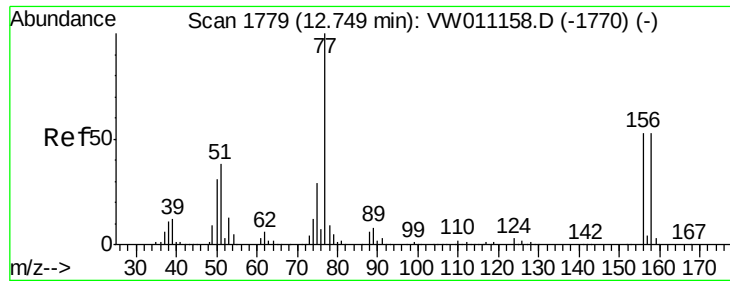
Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Tgt Ion:	75	Resp:	8599
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 3.947 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

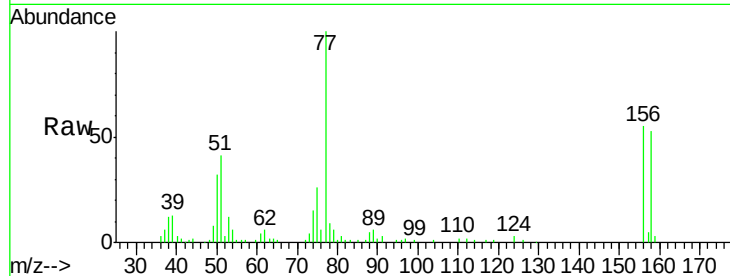
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion	156	Resp	11520
Ion Ratio	Lower	Upper	
156	100		
77	217.7	109.0	327.0
158	97.8	48.8	146.3

Manual Integrations
APPROVED

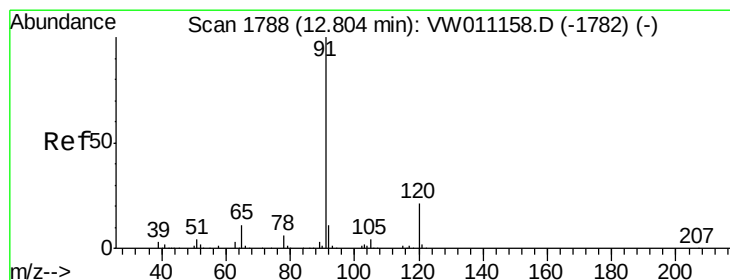
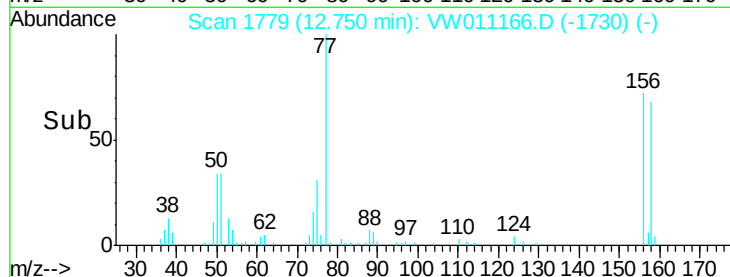
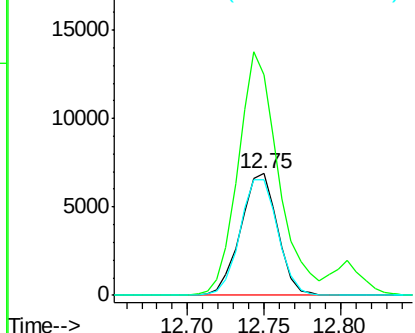
MMDadoda
7/9/2019 4:13:24 PM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 3.768 ug/l

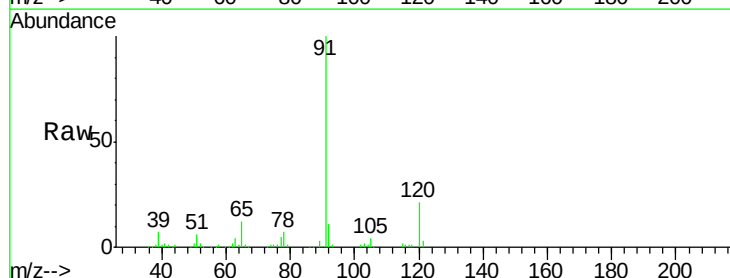
RT: 12.80 min Scan# 1788

Delta R.T. 0.00 min

Lab File: VW011166.D

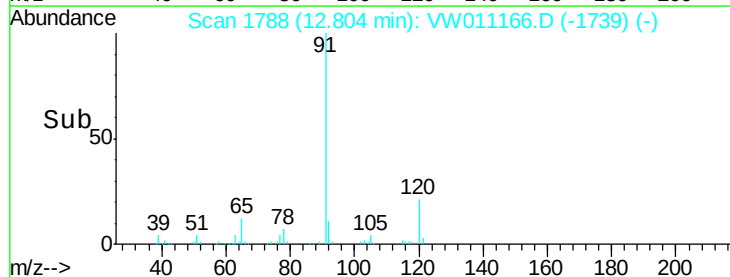
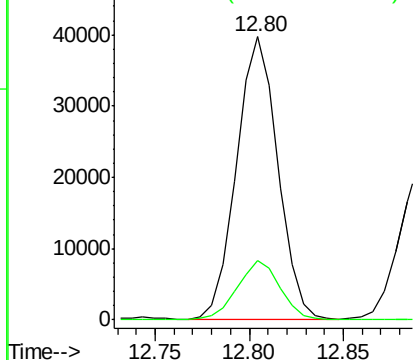
Acq: 08 Jul 2019 17:40

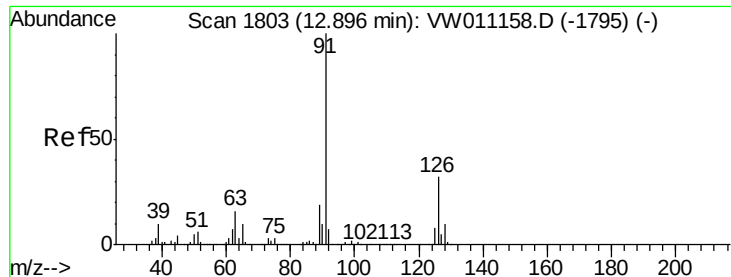
Tgt Ion	91	Resp	60366
Ion Ratio	Lower	Upper	
91	100		
120	21.6	10.8	32.3



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 3.882 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. -0.01 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 91 Resp: 35786

Ion Ratio Lower Upper

91 100

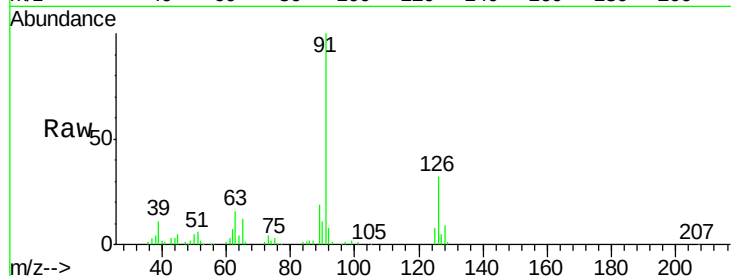
126 31.4 15.8 47.3

Manual Integrations

APPROVED

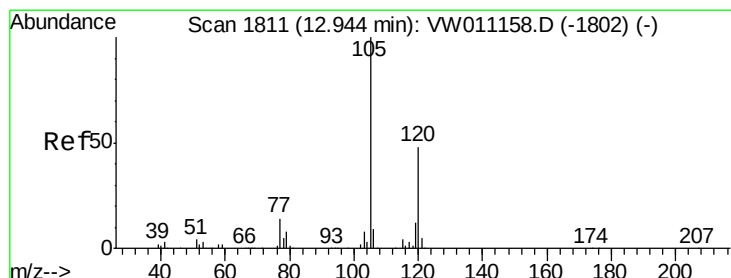
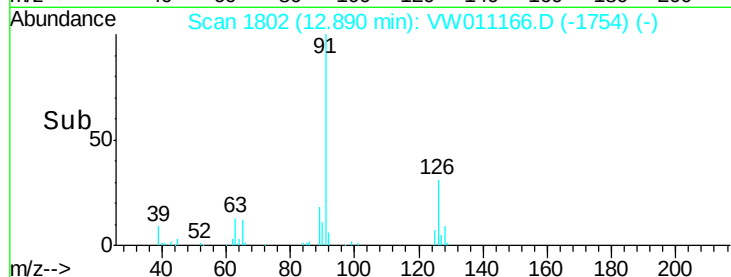
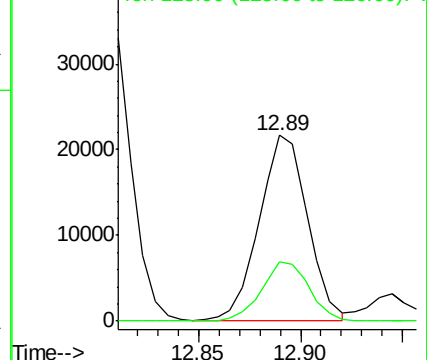
MMDadoda

7/9/2019 4:13:24 PM



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 3.737 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW011166.D

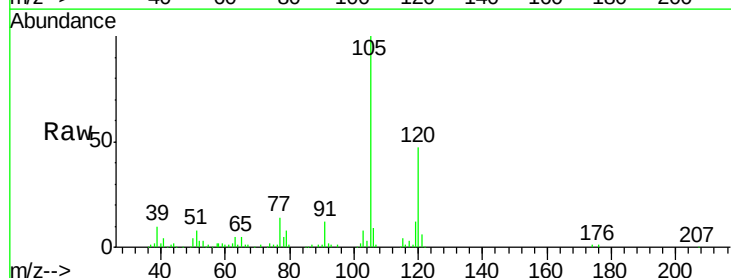
Acq: 08 Jul 2019 17:40

Tgt Ion: 105 Resp: 41286

Ion Ratio Lower Upper

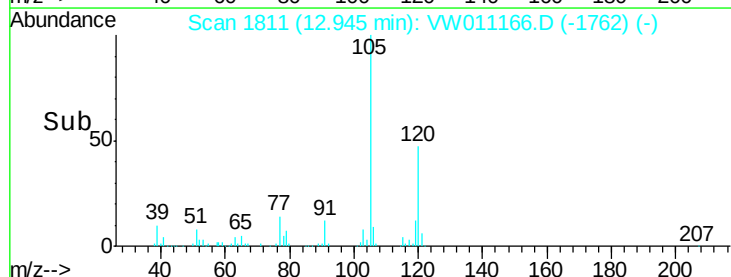
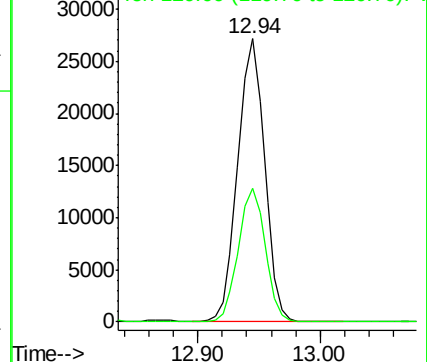
105 100

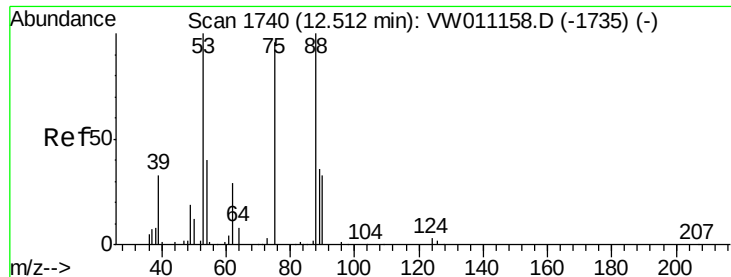
120 47.3 24.1 72.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





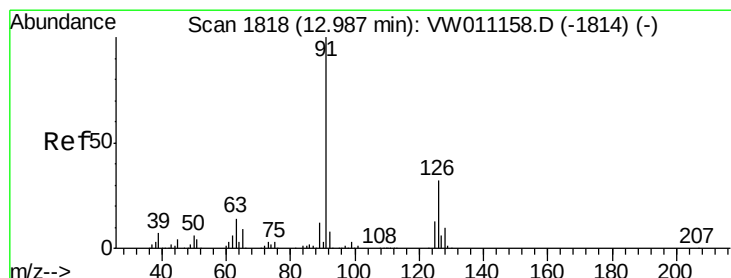
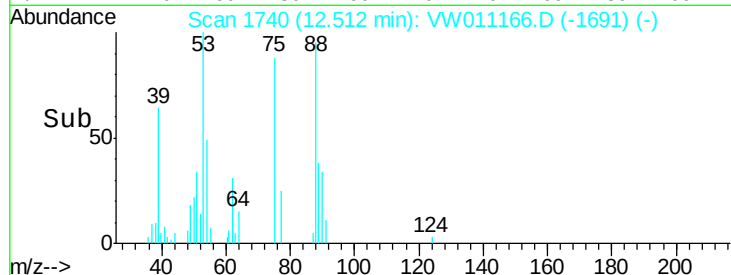
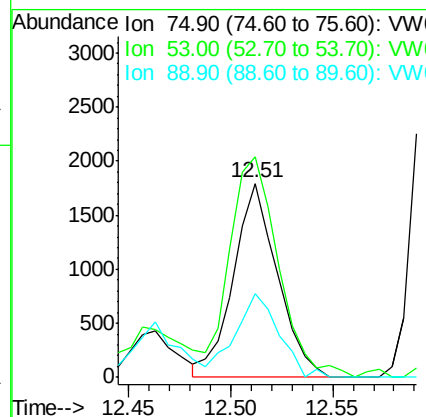
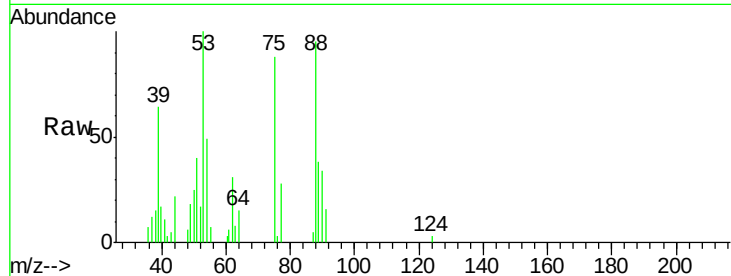
#81
trans-1,4-Dichloro-2-butene
Concen: 3.020 ug/l
RT: 12.51 min Scan# 1740
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 75 Resp: 2685
Ion Ratio Lower Upper
75 100
53 124.2 89.8 134.6
89 42.6 34.3 51.5

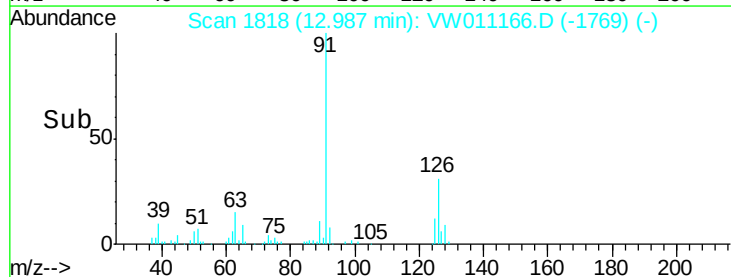
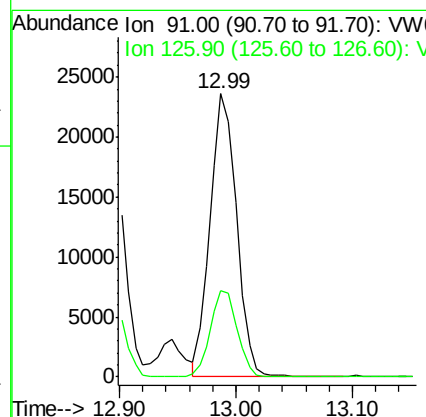
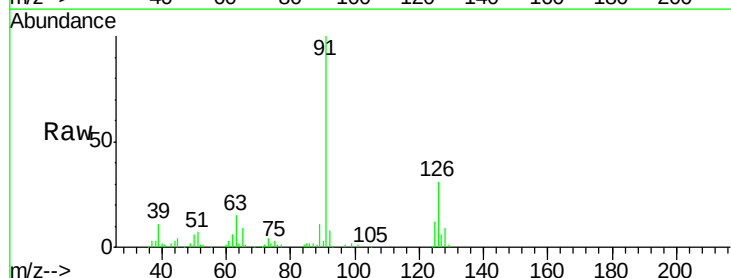
Manual Integrations
APPROVED

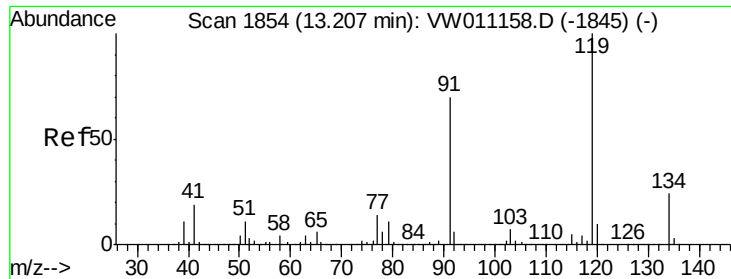
MMDadoda
7/9/2019 4:13:24 PM



#82
4-Chlorotoluene
Concen: 3.867 ug/l
RT: 12.99 min Scan# 1818
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion: 91 Resp: 37134
Ion Ratio Lower Upper
91 100
126 30.8 15.7 47.1





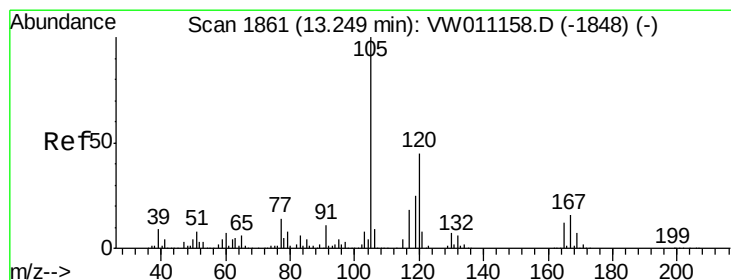
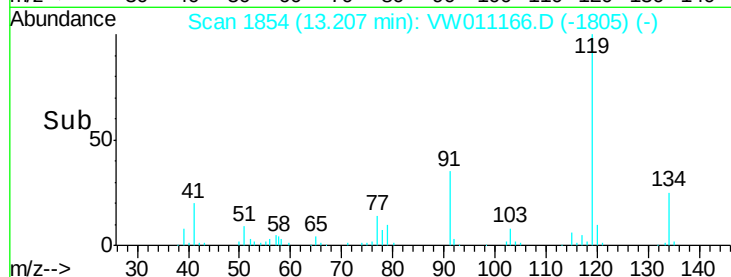
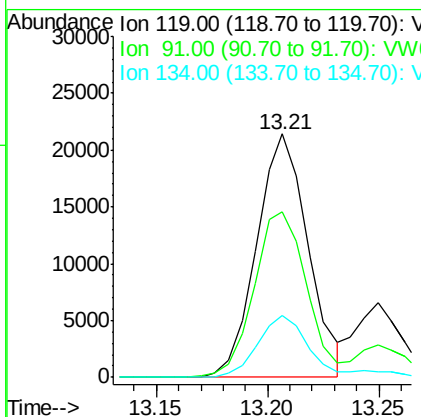
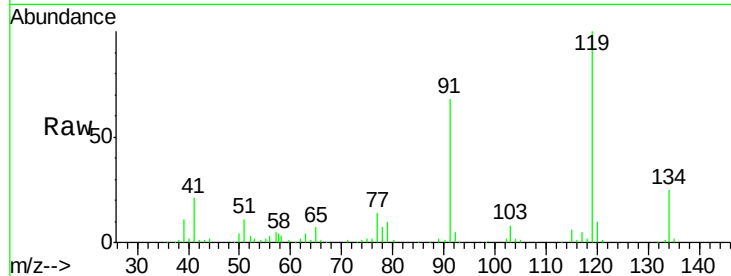
#83
tert-Butylbenzene
Concen: 3.729 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
119	100		
91	69.2	35.4	106.3
134	24.5	13.4	40.2

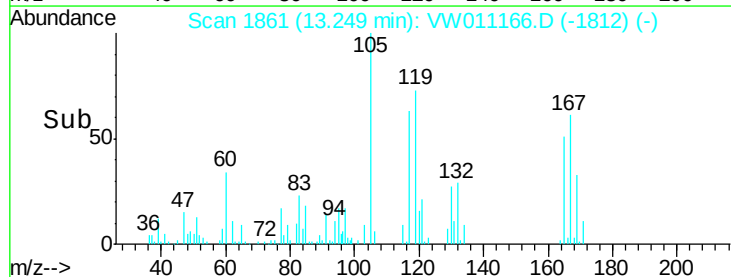
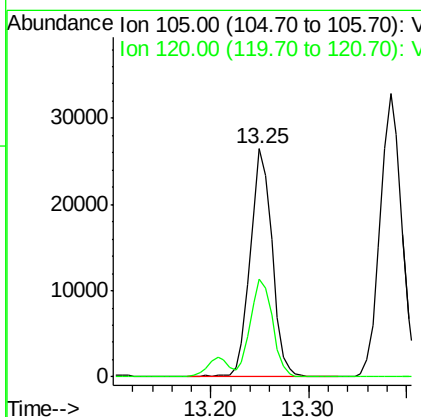
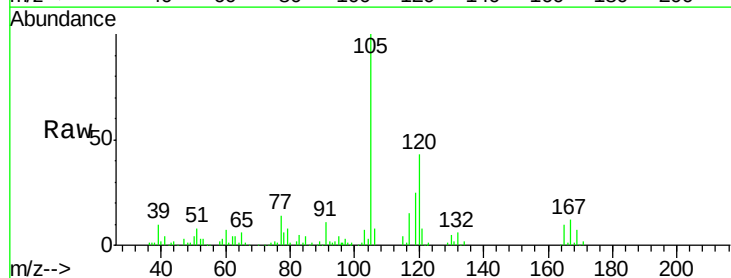
Manual Integrations
APPROVED

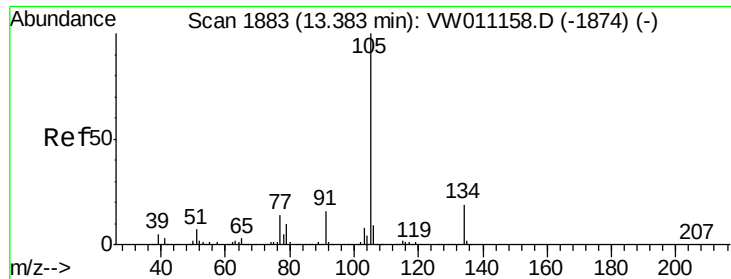
MMDadoda
7/9/2019 4:13:24 PM



#84
1,2,4-Trimethylbenzene
Concen: 3.729 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.3	22.3	66.9





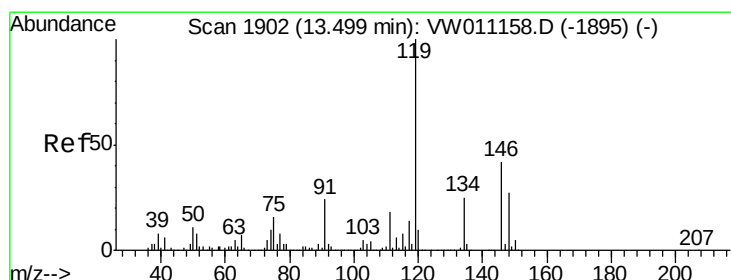
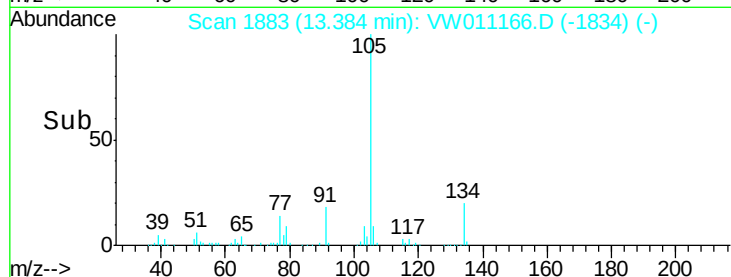
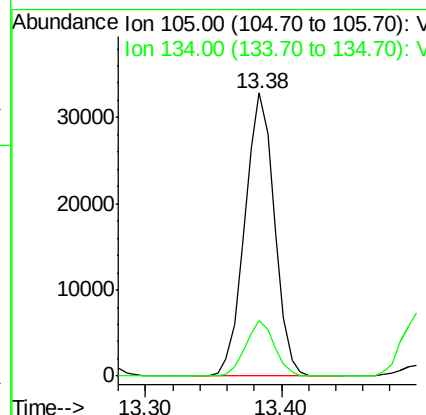
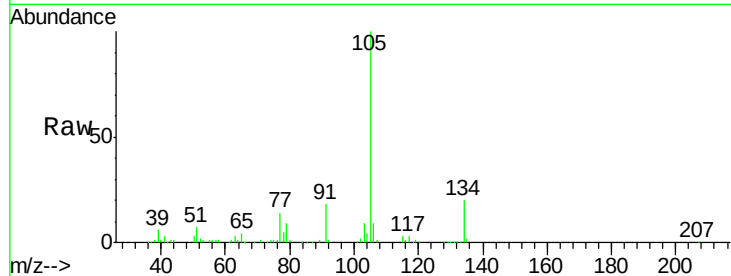
#85
 sec-Butylbenzene
 Concen: 3.765 ug/l
 RT: 13.38 min Scan# 1883
 Delta R.T. 0.00 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.1	9.7	28.9

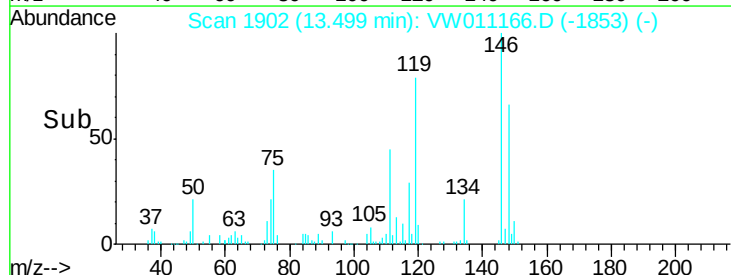
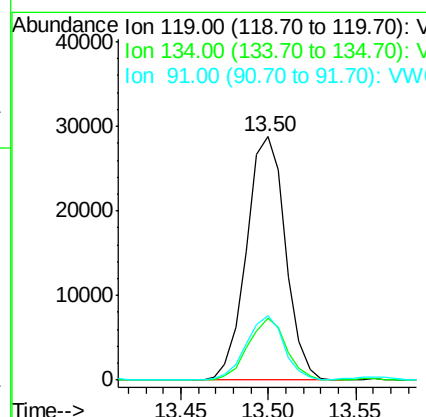
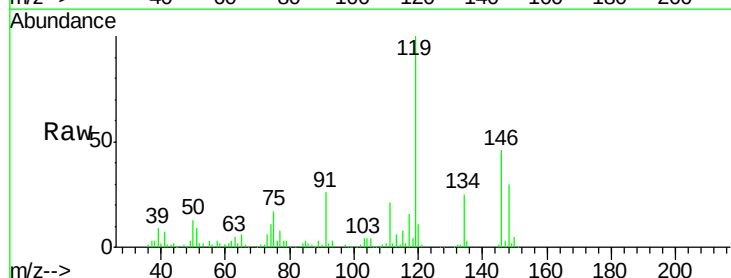
Manual Integrations
 APPROVED

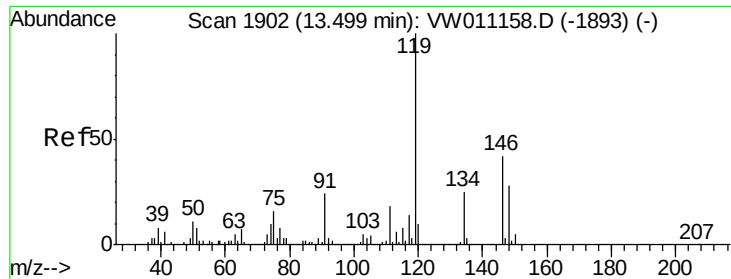
MMDadoda
 7/9/2019 4:13:24 PM



#86
 p-Isopropyltoluene
 Concen: 3.754 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.9	12.9	38.6
91	26.1	12.3	36.8





#87

1,3-Dichlorobenzene

Concen: 3.908 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

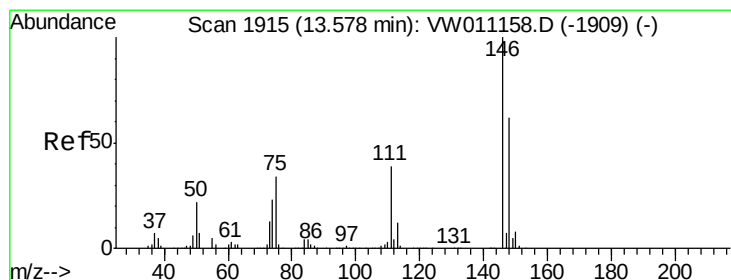
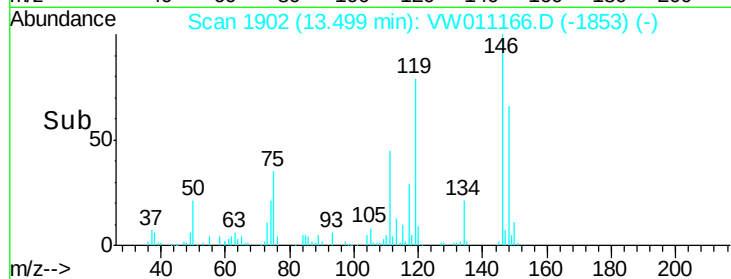
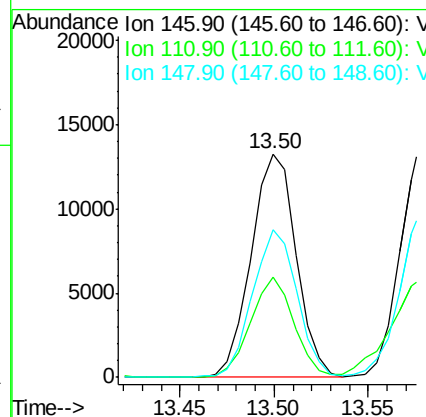
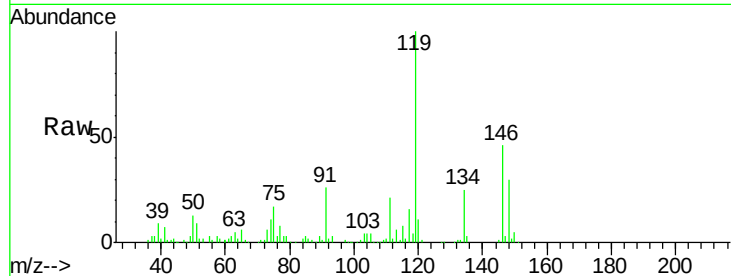
Instrument :
MSVOA_W

ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.3	21.1	63.1
148	65.7	32.6	97.7

Manual Integrations
APPROVED

MMDadoda
7/9/2019 4:13:24 PM



#88

1,4-Dichlorobenzene

Concen: 4.016 ug/l

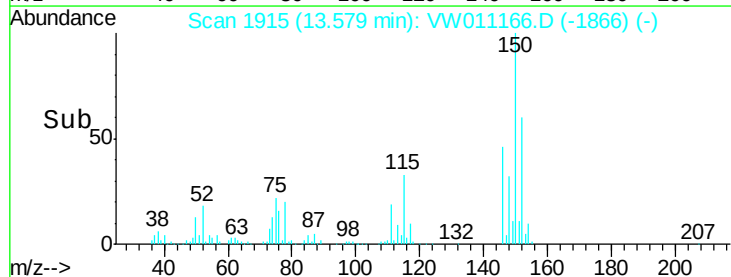
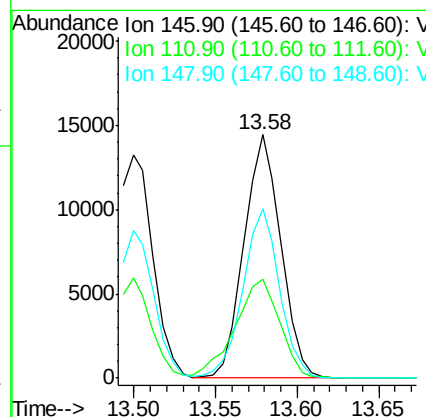
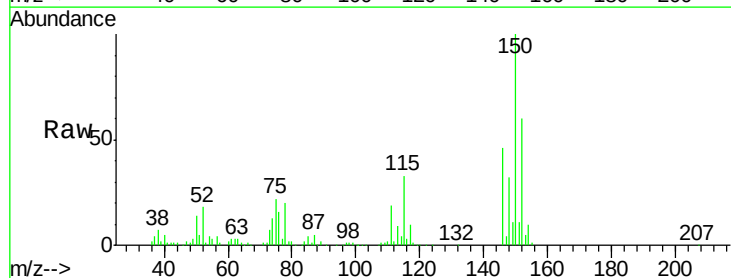
RT: 13.58 min Scan# 1915

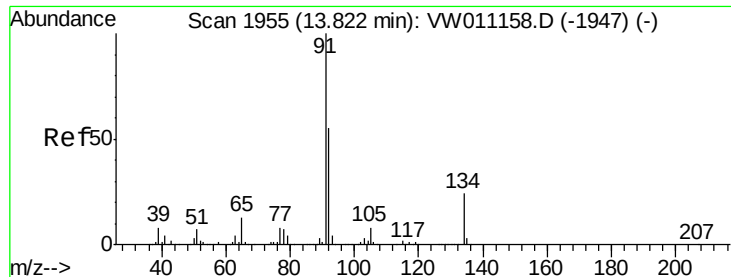
Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Tgt Ion	Ratio	Lower	Upper
146	100		
111	49.7	19.9	59.7
148	69.5	31.5	94.5





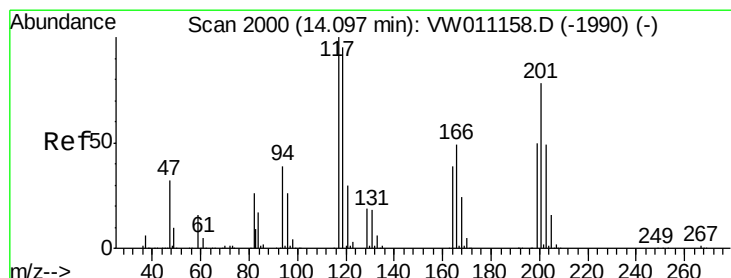
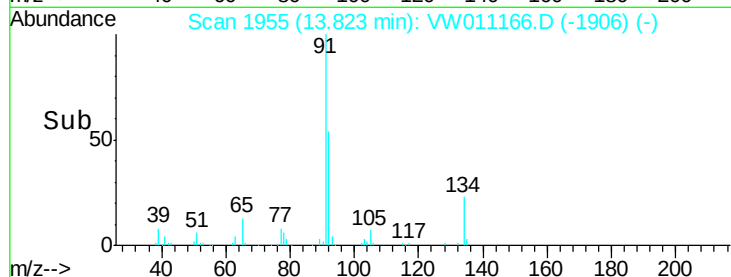
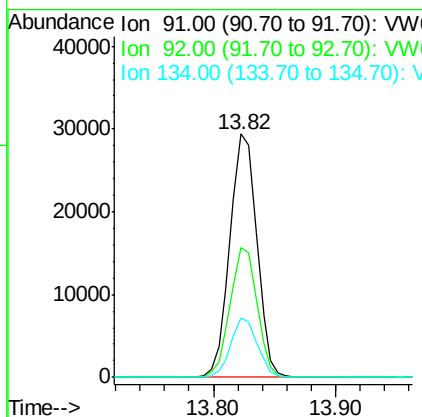
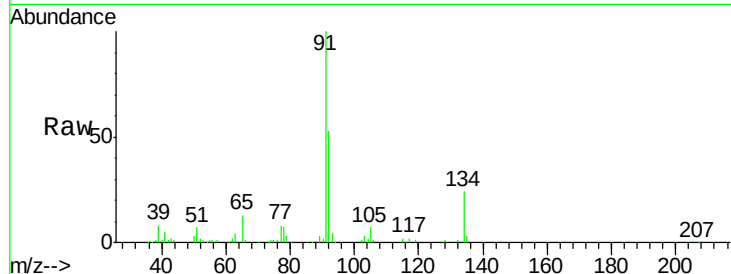
#89
n-Butylbenzene
Concen: 3.779 ug/l
RT: 13.82 min Scan# 1955
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.2	26.9	80.7
134	23.8	12.2	36.4

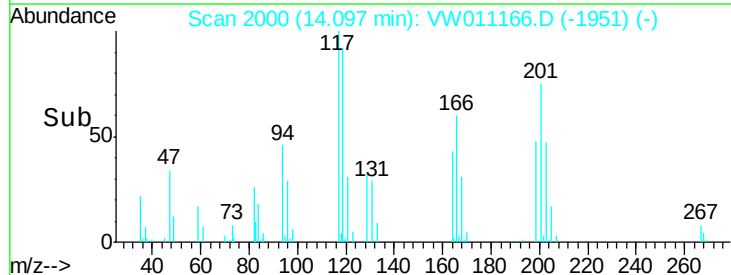
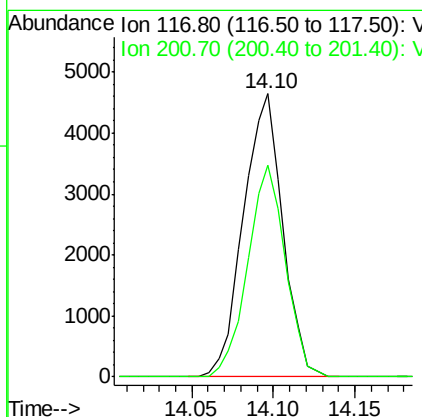
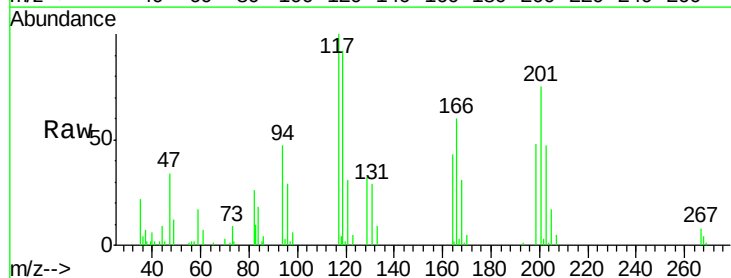
Manual Integrations
APPROVED

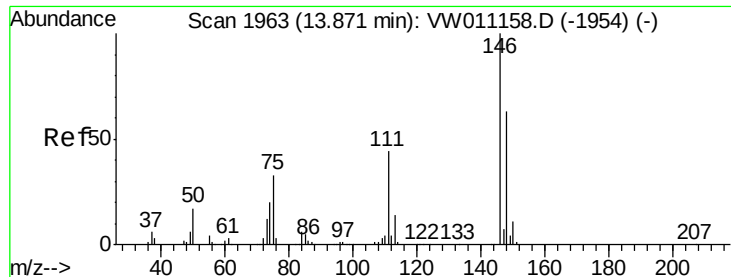
MMDadoda
7/9/2019 4:13:24 PM



#90
Hexachloroethane
Concen: 3.562 ug/l
RT: 14.10 min Scan# 2000
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion	Ratio	Lower	Upper
117	100		
201	72.1	38.3	114.8





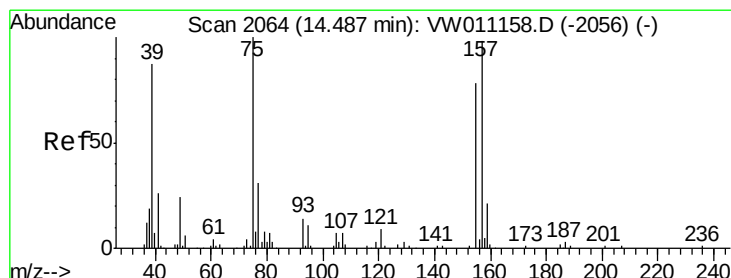
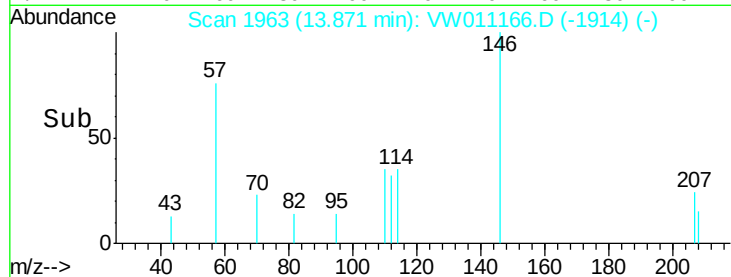
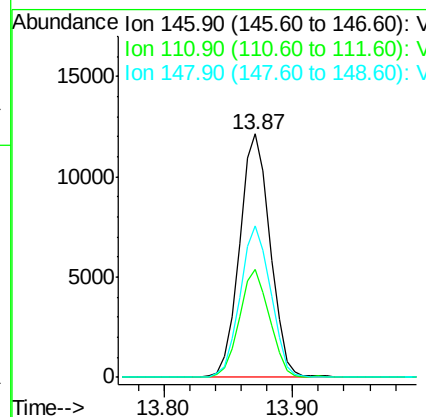
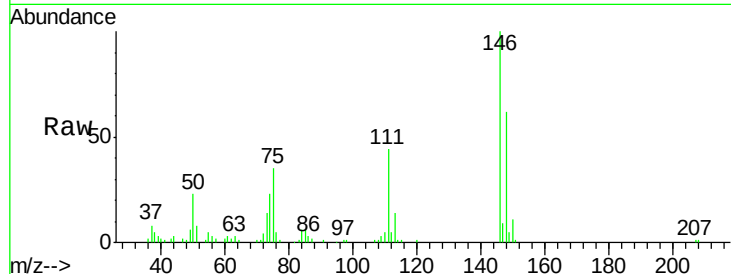
#91
 1,2-Dichlorobenzene
 Concen: 3.920 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.6	65.0
148	62.1	31.9	95.5

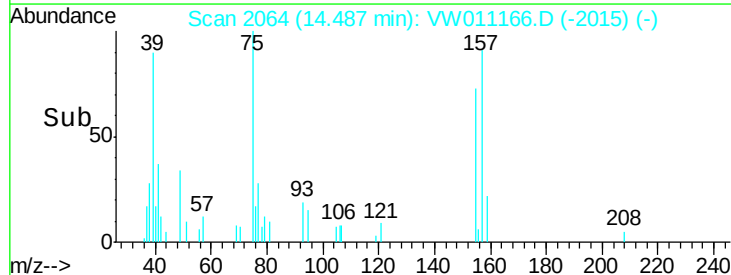
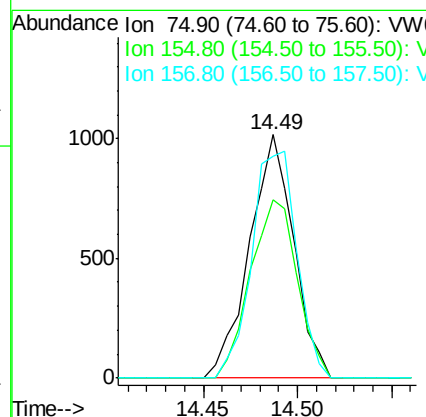
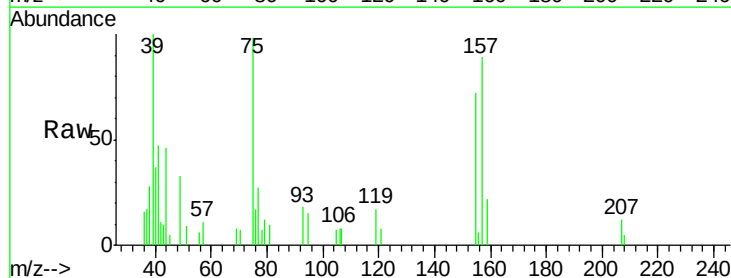
Manual Integrations
 APPROVED

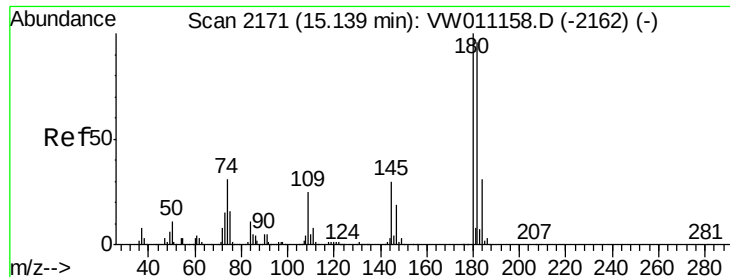
MMDadoda
 7/9/2019 4:13:24 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.491 ug/l
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

Tgt Ion	Ratio	Lower	Upper
75	100		
155	77.9	37.1	111.3
157	95.0	48.5	145.6





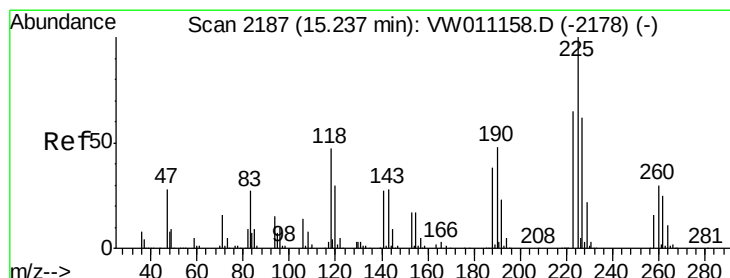
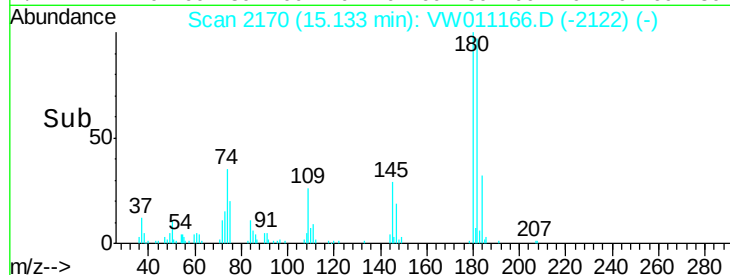
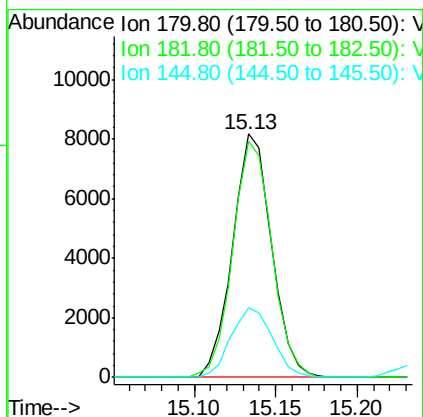
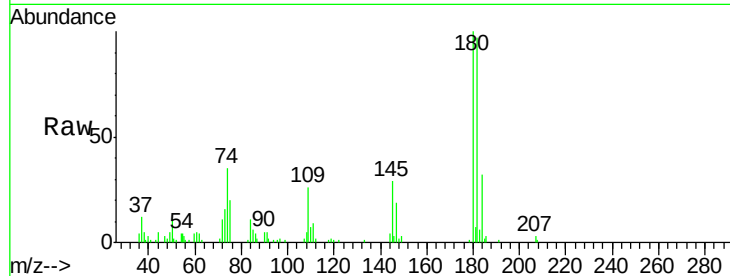
#93
 1,2,4-Trichlorobenzene
 Concen: 3.864 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.01 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Resp	Lower	Upper
180	100	13559		
182	97.4	48.3	144.9	
145	30.5	15.5	46.5	

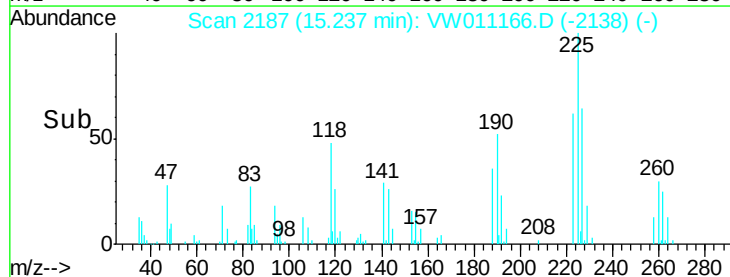
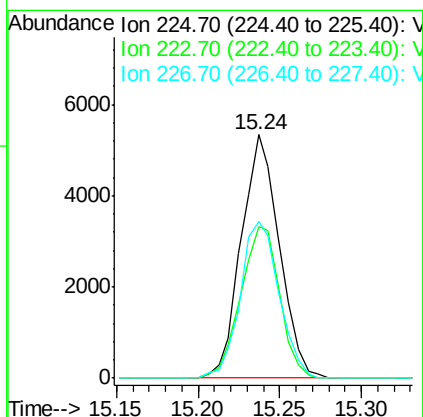
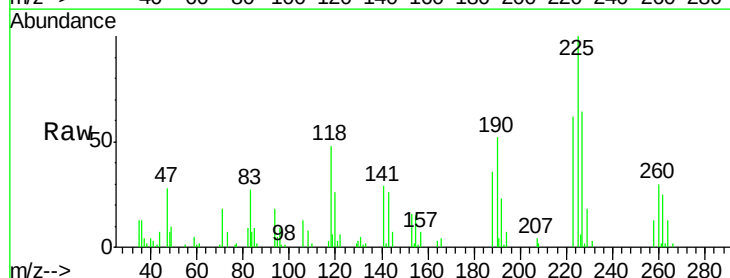
Manual Integrations
 APPROVED

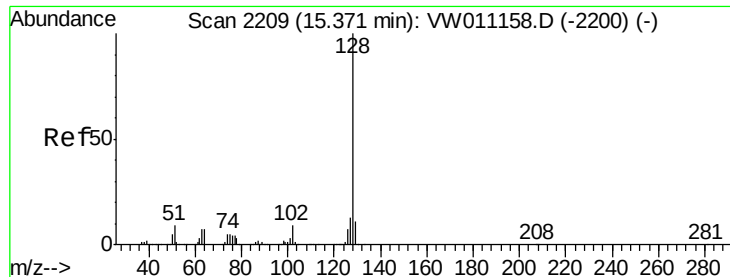
MMDadoda
 7/9/2019 4:13:24 PM



#94
 Hexachlorobutadiene
 Concen: 4.021 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. 0.00 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	8663		
223	63.6	31.6	95.0	
227	65.4	32.0	96.0	





#95

Naphthalene

Concen: 3.475 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

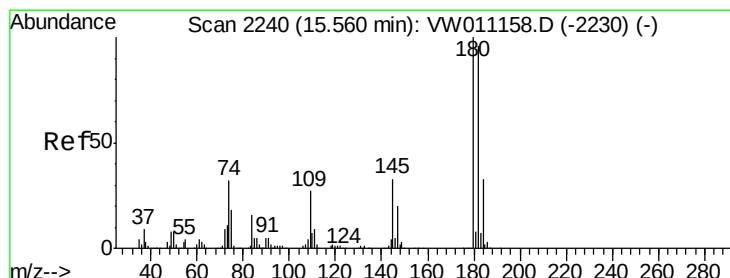
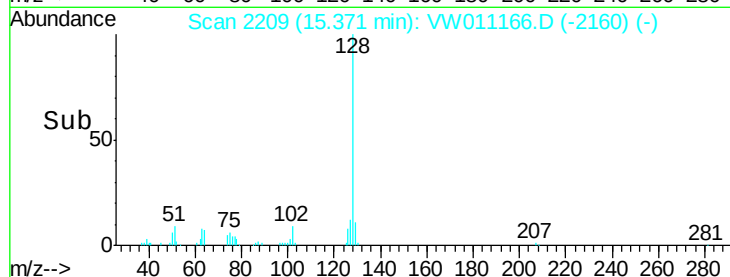
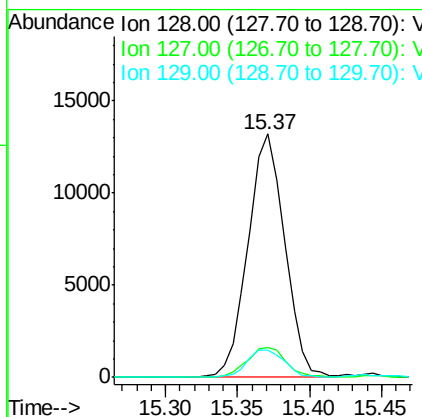
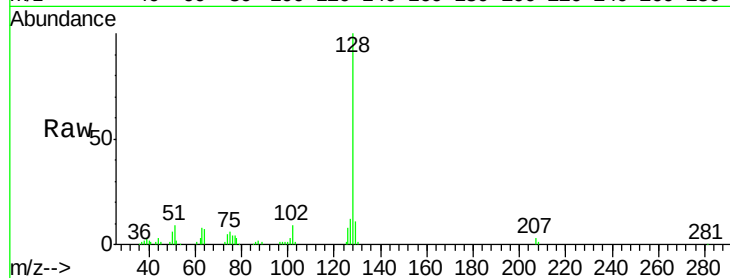
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion:	128	Resp:	23364
Ion Ratio	Lower	Upper	
128	100		
127	13.2	10.6	16.0
129	11.6	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
7/9/2019 4:13:24 PM



#96

1,2,3-Trichlorobenzene

Concen: 4.030 ug/l

RT: 15.56 min Scan# 2240

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Tgt Ion:	180	Resp:	12482
Ion Ratio	Lower	Upper	
180	100		
182	92.7	47.6	142.8
145	32.0	16.5	49.5

