

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW070919\
 Data File : VW011174.D
 Acq On : 09 Jul 2019 12:59
 Operator : SY/VA
 Sample : K3591-03MDL2.5PPB
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT3-2019

Manual Integrations
 APPROVED

MMDadoda
 7/10/2019 10:47:49 AM

Quant Time: Jul 10 06:48:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W070819S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 10 06:41:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	233563	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	383411	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	335415	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	164578	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	144651	49.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.58%	
35) Dibromofluoromethane	7.88	113	111585	48.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.66%	
50) Toluene-d8	10.32	98	454916	49.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.50%	
62) 4-Bromofluorobenzene	12.62	95	165973	49.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.04%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	4035	2.316	ug/l 93
3) Chloromethane	2.21	50	6251	2.785	ug/l 99
4) Vinyl Chloride	2.35	62	7165	2.439	ug/l 99
5) Bromomethane	2.76	94	4272	2.894	ug/l 86
6) Chloroethane	2.91	64	3908	2.470	ug/l # 80
7) Trichlorofluoromethane	3.25	101	2228	2.135	ug/l # 81
8) Diethyl Ether	3.67	74	3809	2.638	ug/l 89
9) 1,1,2-Trichlorotrifluoroet	4.07	101	6410	2.564	ug/l 96
10) Methyl Iodide	4.27	142	8219	2.390	ug/l 100
11) Tert butyl alcohol	5.16	59	3063	14.097	ug/l 95
12) 1,1-Dichloroethene	4.04	96	6287	2.423	ug/l 98
13) Acrolein	3.89	56	2447	14.143	ug/l 99
14) Allyl chloride	4.67	41	10827	2.288	ug/l 93
15) Acrylonitrile	5.37	53	8768	11.922	ug/l 94
16) Acetone	4.12	43	11421	16.174	ug/l 96
17) Carbon Disulfide	4.38	76	17922	2.278	ug/l # 95
18) Methyl Acetate	4.68	43	7909	3.581	ug/l # 75
19) Methyl tert-butyl Ether	5.43	73	10083	2.561	ug/l 97
20) Methylene Chloride	4.92	84	13393	4.808	ug/l 96
21) trans-1,2-Dichloroethene	5.42	96	6816	2.528	ug/l 82
22) Diisopropyl ether	6.31	45	24315	2.389	ug/l 92
23) Vinyl Acetate	6.26	43	61405	9.750	ug/l 98
24) 1,1-Dichloroethane	6.21	63	13141	2.459	ug/l # 96
25) 2-Butanone	7.17	43	13945	12.580	ug/l 93
26) 2,2-Dichloropropane	7.17	77	6777	2.440	ug/l 99
27) cis-1,2-Dichloroethene	7.17	96	7099	2.441	ug/l 98
28) Bromochloromethane	7.51	49	6759	2.782	ug/l 98
29) Tetrahydrofuran	7.53	42	9065	12.472	ug/l 98
30) Chloroform	7.67	83	13576	2.743	ug/l 89
31) Cyclohexane	7.95	56	18939	3.331	ug/l # 67
32) 1,1,1-Trichloroethane	7.87	97	9128	2.425	ug/l 95
36) 1,1-Dichloropropene	8.08	75	10300	2.523	ug/l 99
37) Ethyl Acetate	7.26	43	5784	2.358	ug/l # 95
38) Carbon Tetrachloride	8.07	117	8380	2.421	ug/l 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	13003	2.628	ug/l	92
40) Benzene	8.32	78	29114	2.580	ug/l	99
41) Methacrylonitrile	7.49	41	3536	2.520	ug/l	96
42) 1,2-Dichloroethane	8.40	62	9839	2.688	ug/l	99
43) Isopropyl Acetate	8.42	43	11248	2.429	ug/l	96
44) Trichloroethene	9.09	130	6782	2.498	ug/l	92
45) 1,2-Dichloropropane	9.37	63	7812	2.557	ug/l	92
46) Dibromomethane	9.46	93	3634	2.532	ug/l	97
47) Bromodichloromethane	9.64	83	8209	2.235	ug/l	98
48) Methyl methacrylate	9.44	41	4543	2.039	ug/l	88
49) 1,4-Dioxane	9.45	88	1251	52.215	ug/l	89
51) 4-Methyl-2-Pentanone	10.21	43	29144	12.046	ug/l	97
52) Toluene	10.38	92	17014	2.486	ug/l	96
53) t-1,3-Dichloropropene	10.60	75	8593	2.198	ug/l	98
54) cis-1,3-Dichloropropene	10.07	75	10101	2.195	ug/l	94
55) 1,1,2-Trichloroethane	10.79	97	5226	2.566	ug/l	98
56) Ethyl methacrylate	10.65	69	7031	2.268	ug/l	97
57) 1,3-Dichloropropane	10.93	76	9435	2.450	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.92	63	17695	12.312	ug/l	98
59) 2-Hexanone	10.97	43	19716	11.751	ug/l	98
60) Dibromochloromethane	11.12	129	5162	2.312	ug/l	95
61) 1,2-Dibromoethane	11.24	107	4689	2.431	ug/l	95
64) Tetrachloroethene	10.86	164	6232	2.753	ug/l	97
65) Chlorobenzene	11.66	112	17599	2.581	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.73	131	5727	2.385	ug/l	97
67) Ethyl Benzene	11.73	91	32189	2.466	ug/l	98
68) m/p-Xylenes	11.84	106	22740	4.814	ug/l	98
69) o-Xylene	12.16	106	10933	2.456	ug/l	97
70) Styrene	12.18	104	17121	2.228	ug/l	96
71) Bromoform	12.35	173	2702	2.117	ug/l #	99
73) Isopropylbenzene	12.46	105	29684	2.413	ug/l	99
74) N-amyl acetate	12.27	43	9022	2.106	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.71	83	6377	2.529	ug/l	100
76) 1,2,3-Trichloropropane	12.77	75	4370m	2.298	ug/l	
77) Bromobenzene	12.74	156	7135	2.584	ug/l	97
78) n-propylbenzene	12.80	91	38151	2.517	ug/l	98
79) 2-Chlorotoluene	12.90	91	22048	2.528	ug/l	100
80) 1,3,5-Trimethylbenzene	12.94	105	25515	2.441	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.51	75	1546m	1.839	ug/l	
82) 4-Chlorotoluene	12.99	91	23427	2.579	ug/l	99
83) tert-Butylbenzene	13.21	119	20965	2.405	ug/l	98
84) 1,2,4-Trimethylbenzene	13.26	105	25706	2.449	ug/l	97
85) sec-Butylbenzene	13.38	105	31125	2.475	ug/l	100
86) p-Isopropyltoluene	13.50	119	27092	2.401	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	13972	2.630	ug/l	98
88) 1,4-Dichlorobenzene	13.58	146	14420	2.696	ug/l	88
89) n-Butylbenzene	13.83	91	27992	2.487	ug/l	99
90) Hexachloroethane	14.10	117	4891	2.373	ug/l	93
91) 1,2-Dichlorobenzene	13.87	146	12556	2.605	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.49	75	1097	2.452	ug/l	85

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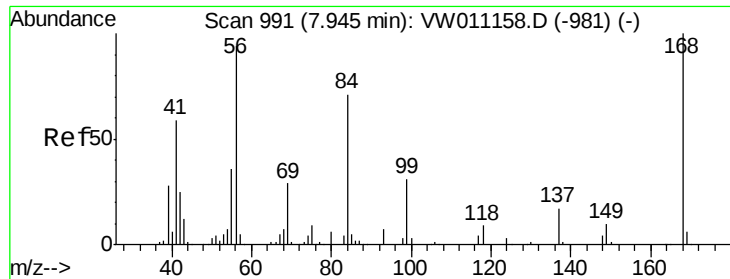
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	8524	2.568	ug/l	99
94) Hexachlorobutadiene	15.24	225	5592	2.744	ug/l	99
95) Naphthalene	15.37	128	14266	2.243	ug/l	98
96) 1,2,3-Trichlorobenzene	15.56	180	7830	2.673	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

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Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

Tot Ion:168 Resp: 233563

Ion Ratio Lower Upper

168 100

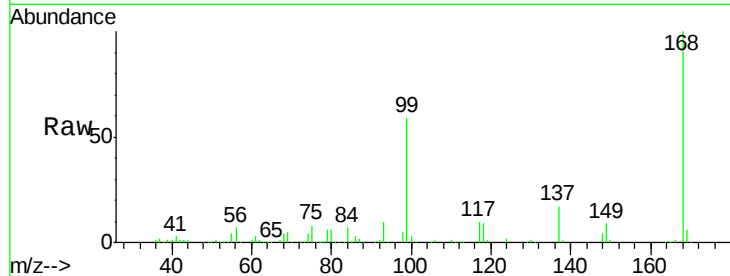
99 59.4 50.1 75.1

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

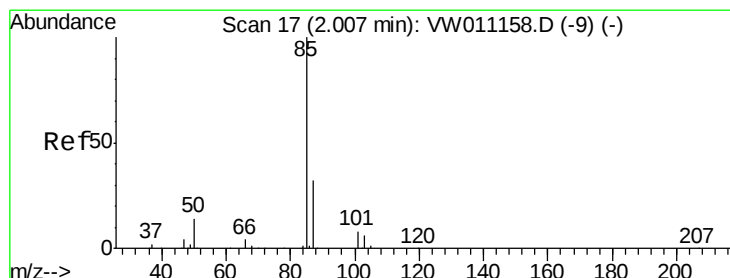
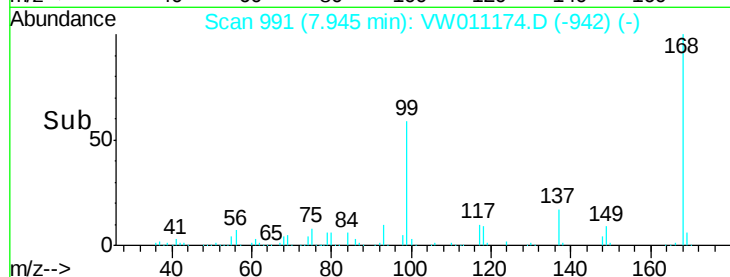
60000

40000

20000

0

Time--> 7.80 7.90 8.00



#2

Dichlorodifluoromethane

Concen: 2.316 ug/l

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW011174.D

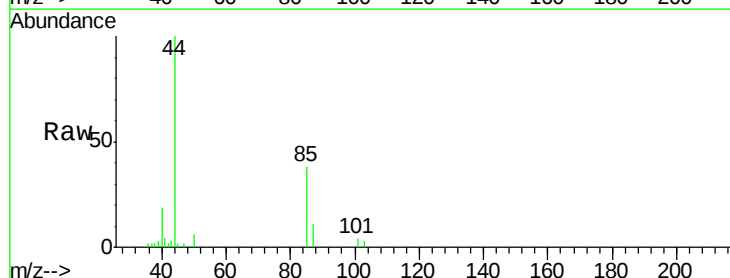
Acq: 09 Jul 2019 12:59

Tgt Ion: 85 Resp: 4035

Ion Ratio Lower Upper

85 100

87 27.7 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

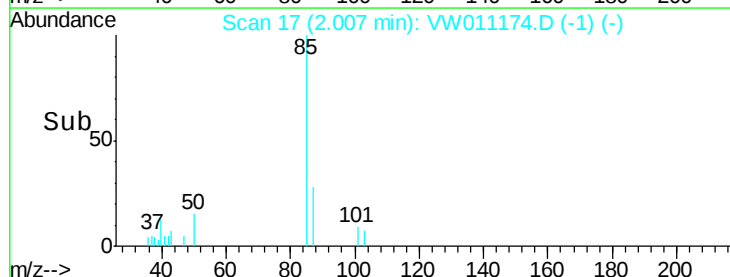
1500

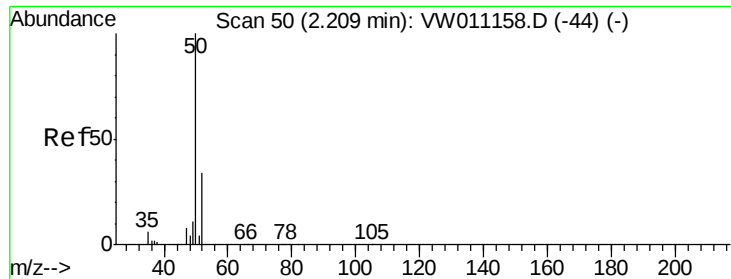
1000

500

0

Time--> 1.95 2.00 2.05 2.10





#3

Chloromethane

Concen: 2.785 ug/l

RT: 2.21 min Scan# 50

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

Tot Ion: 50 Resp: 6251

Ion Ratio Lower Upper

50 100

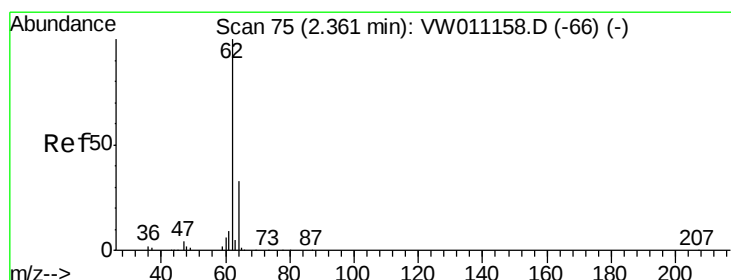
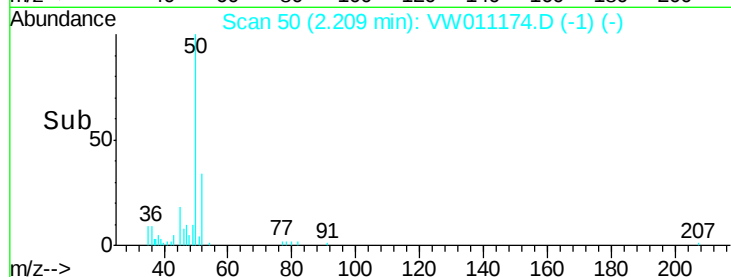
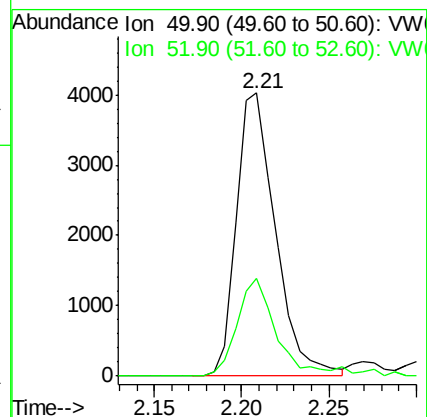
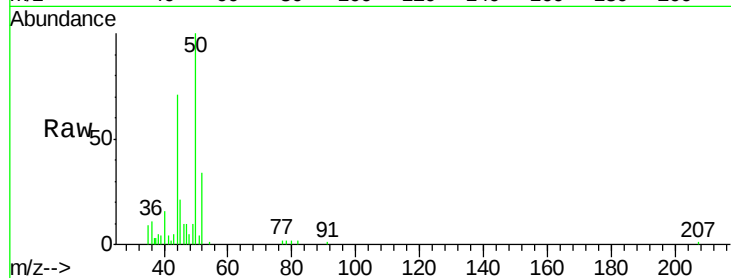
52 34.4 26.9 40.3

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#4

Vinyl Chloride

Concen: 2.439 ug/l

RT: 2.35 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW011174.D

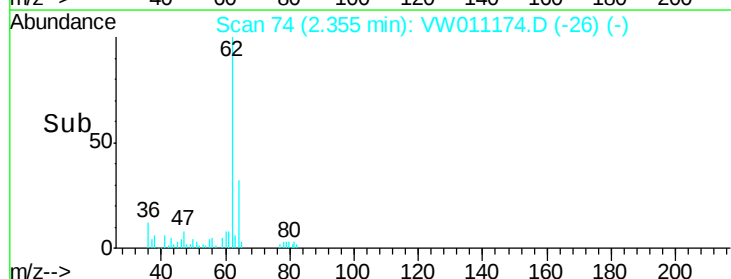
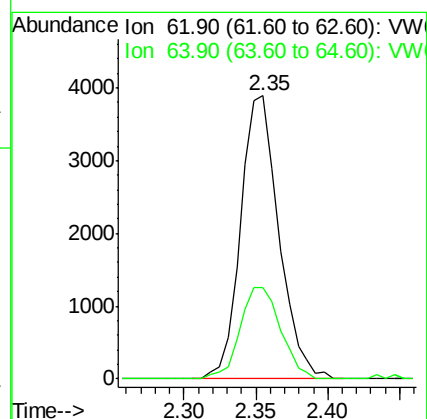
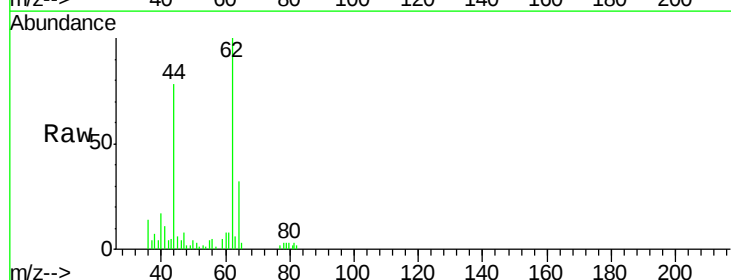
Acq: 09 Jul 2019 12:59

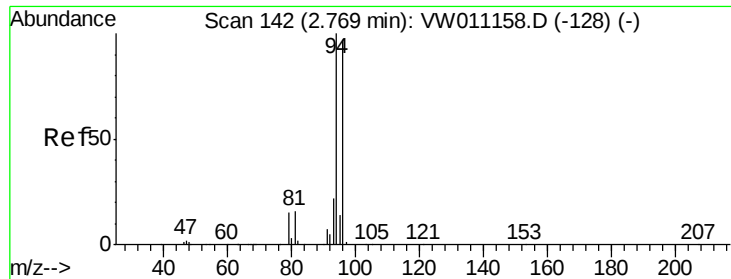
Tgt Ion: 62 Resp: 7165

Ion Ratio Lower Upper

62 100

64 32.5 26.6 40.0





#5

Bromomethane

Concen: 2.894 ug/l

RT: 2.76 min Scan# 141

Delta R.T. -0.01 min

Lab File: VW011174.D

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Tot Ion: 94 Resp: 4272

Ion Ratio Lower Upper

94 100

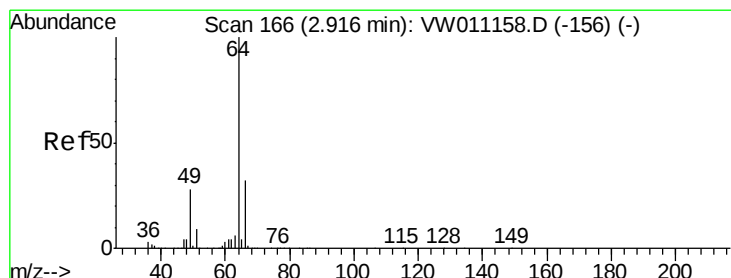
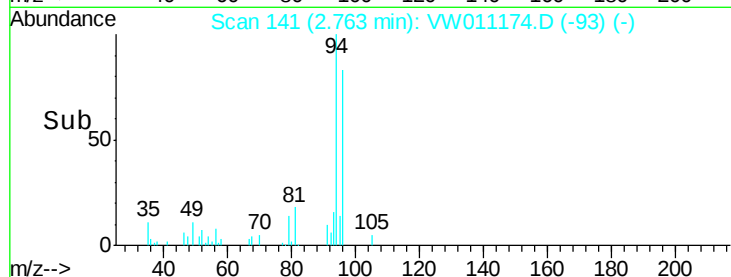
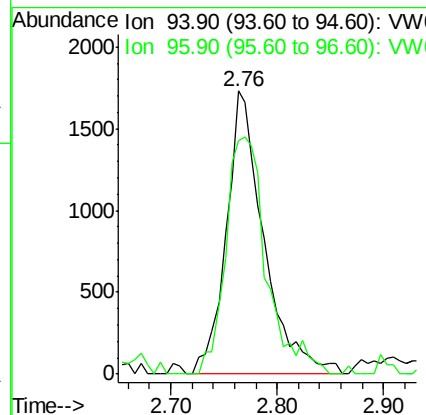
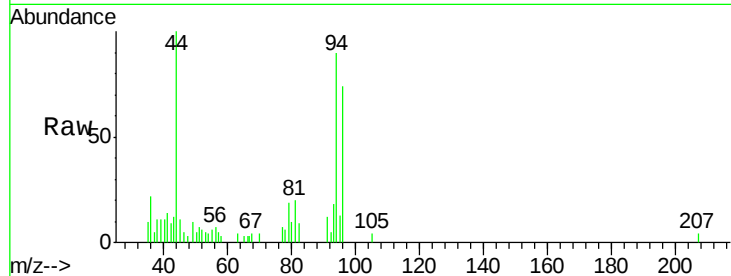
96 82.6 77.4 116.0

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#6

Chloroethane

Concen: 2.470 ug/l

RT: 2.91 min Scan# 165

Delta R.T. -0.01 min

Lab File: VW011174.D

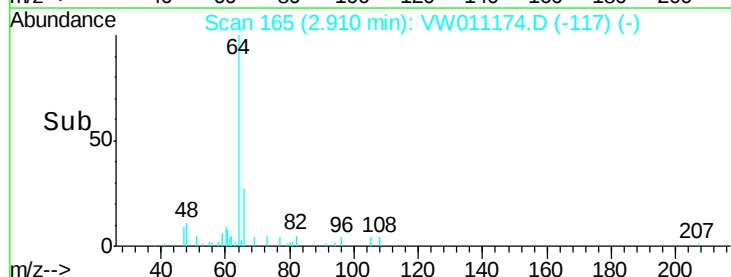
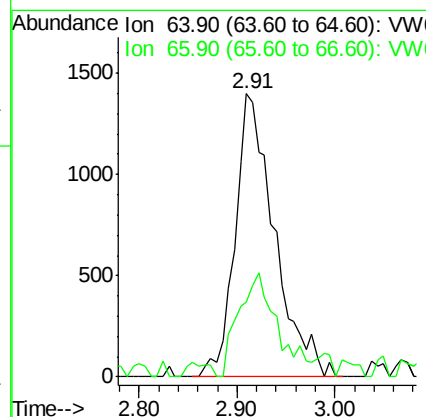
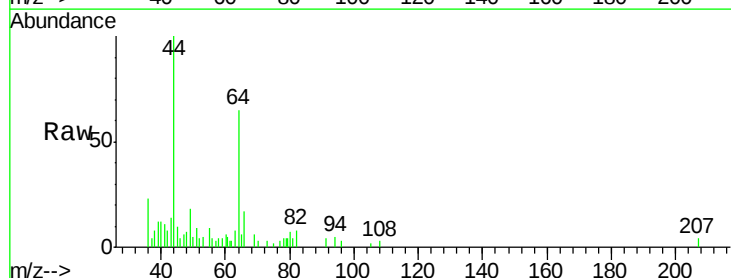
Acq: 09 Jul 2019 12:59

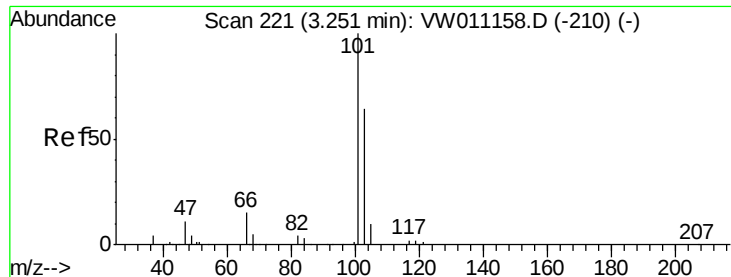
Tgt Ion: 64 Resp: 3908

Ion Ratio Lower Upper

64 100

66 21.2 25.8 38.8#





#7

Trichlorofluoromethane

Concen: 2.135 ug/l

RT: 3.25 min Scan# 220

Delta R.T. -0.01 min

Lab File: VW011174.D

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Tot Ion:101 Resp: 2228

Ion Ratio Lower Upper

101 100

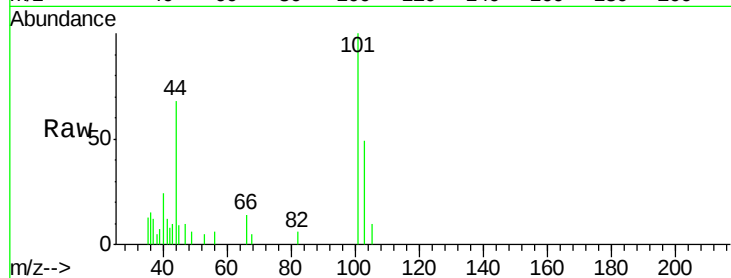
103 49.4 51.3 76.9#

Manual Integrations

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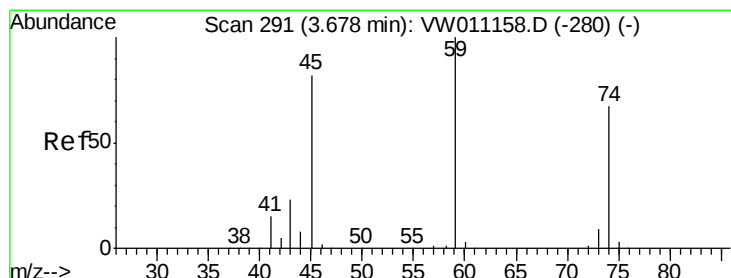
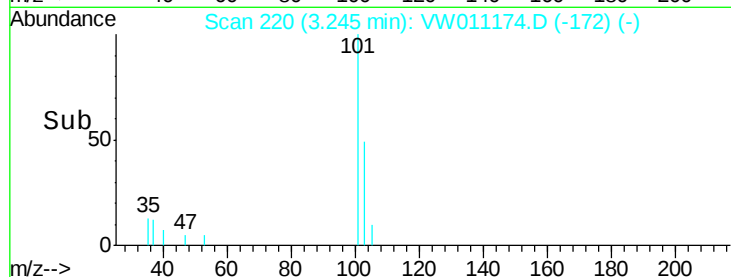
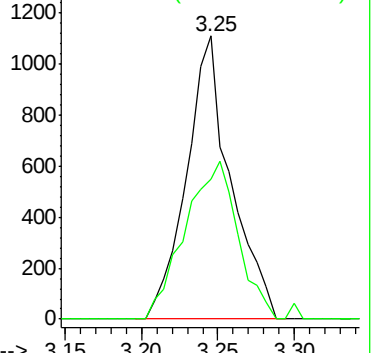
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7/10/2019 10:47:49 AM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 2.638 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW011174.D

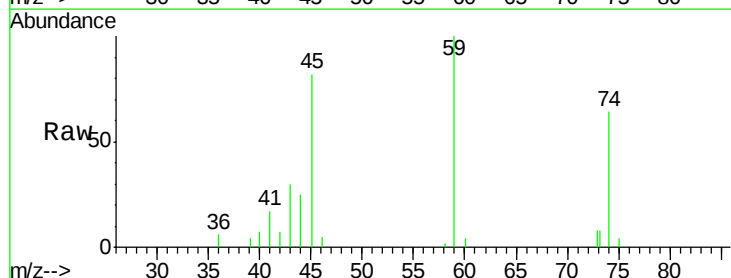
Acq: 09 Jul 2019 12:59

Tgt Ion: 74 Resp: 3809

Ion Ratio Lower Upper

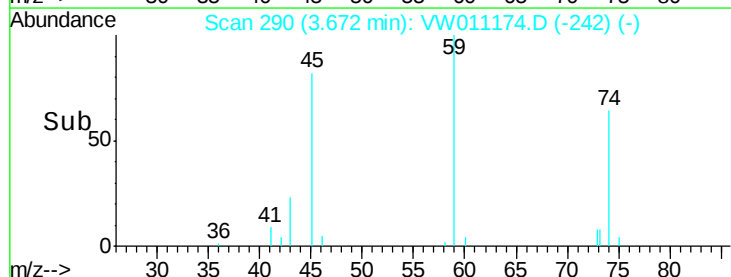
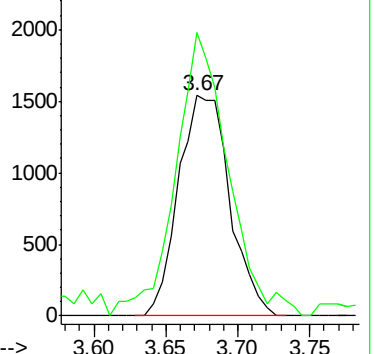
74 100

45 131.9 59.9 179.7



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.564 ug/l

RT: 4.07 min Scan# 355

Delta R.T. 0.01 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

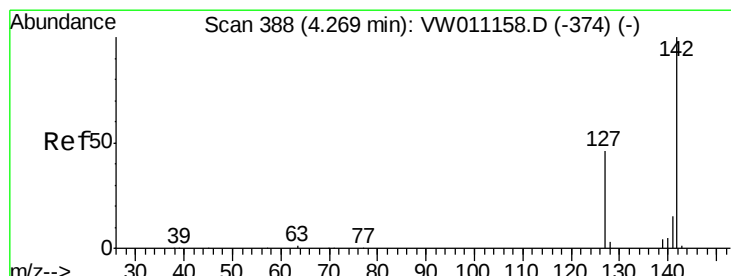
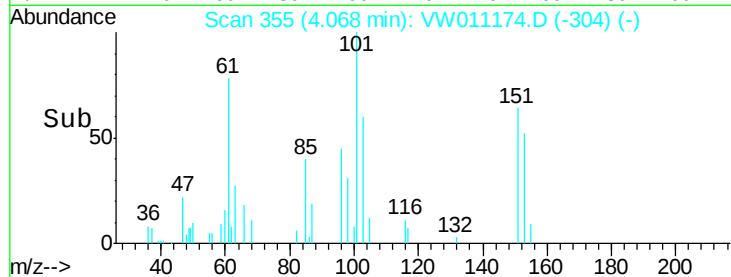
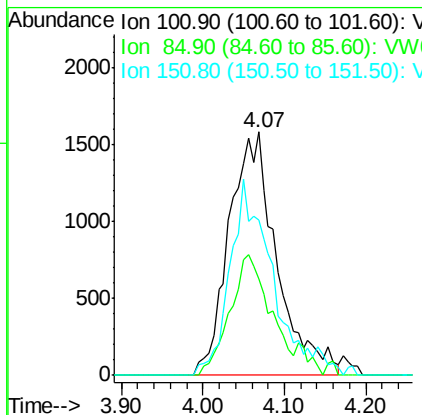
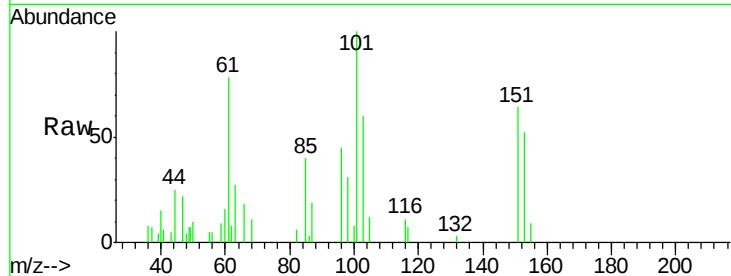
ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

Tot Ion:	101	Resp:	6410
Ion Ratio	Lower	Upper	
101	100		
85	41.6	36.5	54.7
151	71.8	59.1	88.7

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#10

Methyl Iodide

Concen: 2.390 ug/l

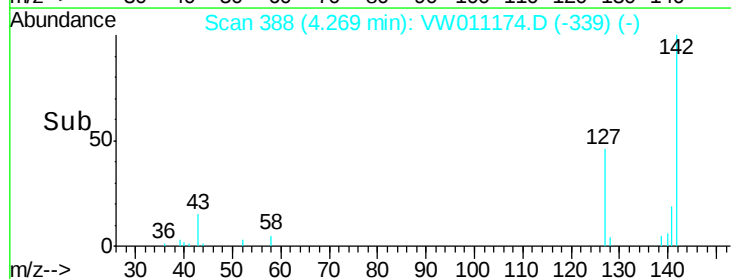
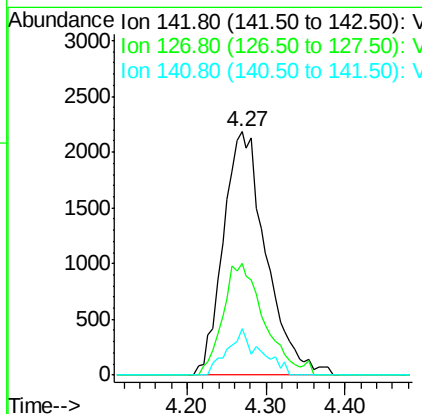
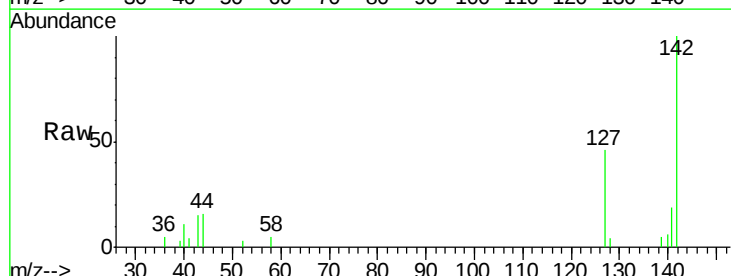
RT: 4.27 min Scan# 388

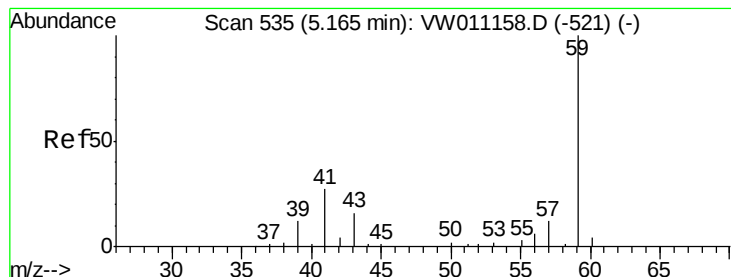
Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Tgt Ion:	142	Resp:	8219
Ion Ratio	Lower	Upper	
142	100		
127	44.5	35.7	53.5
141	14.5	11.5	17.3





#11

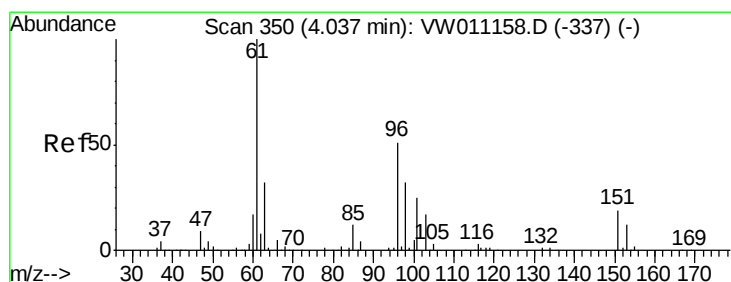
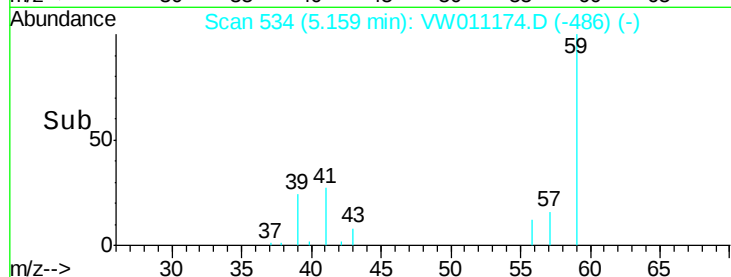
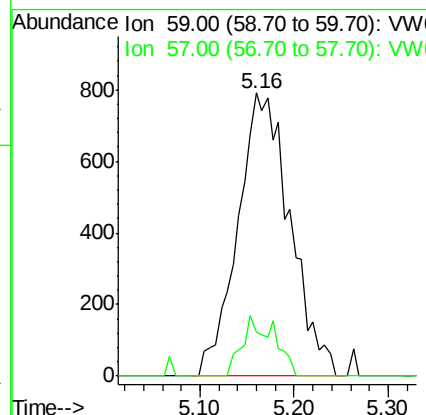
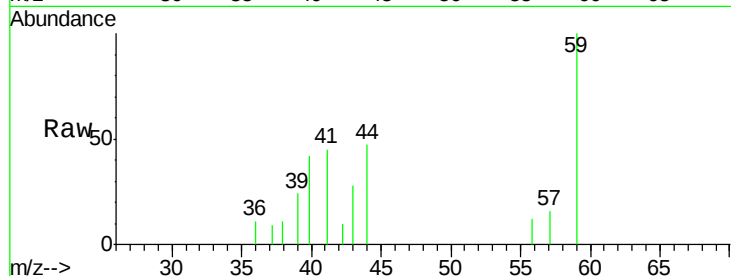
Tert butyl alcohol
 Concen: 14.097 ug/l
 RT: 5.16 min Scan# 534
 Delta R.T. -0.01 min
 Lab File: VW011174.D
 Acq: 09 Jul 2019 12:59

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
59	100		
57	13.1	9.0	13.6

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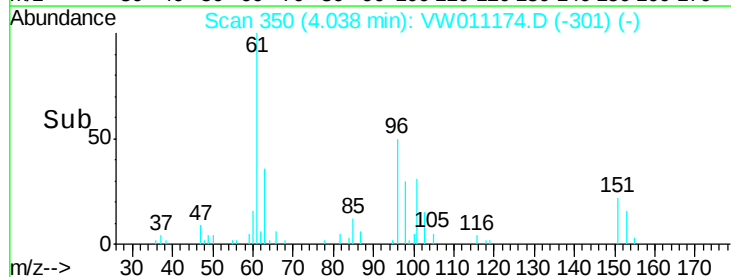
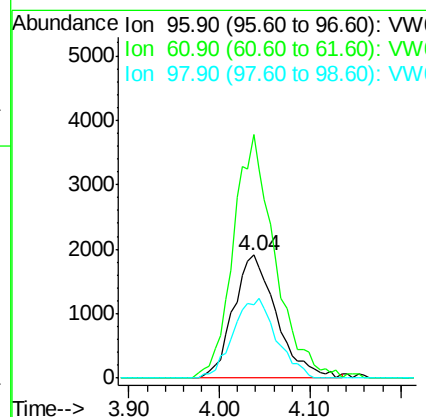
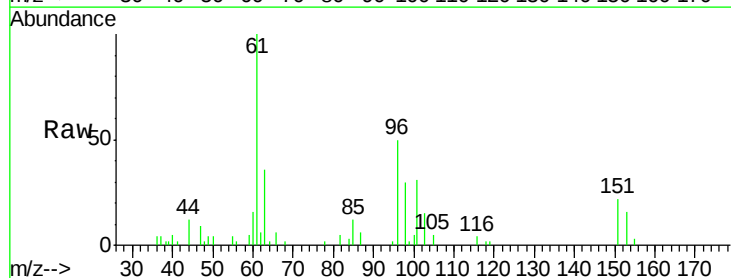
MMDadoda
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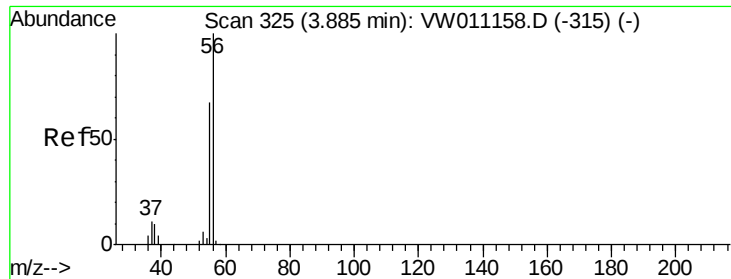


#12

1,1-Dichloroethene
 Concen: 2.423 ug/l
 RT: 4.04 min Scan# 350
 Delta R.T. 0.00 min
 Lab File: VW011174.D
 Acq: 09 Jul 2019 12:59

Tgt Ion	Ratio	Lower	Upper
96	100		
61	198.2	157.7	236.5
98	59.2	50.9	76.3





#13

Acrolein

Concen: 14.143 ug/l

RT: 3.89 min Scan# 325

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

Tot Ion: 56 Resp: 2447

Ion Ratio Lower Upper

56 100

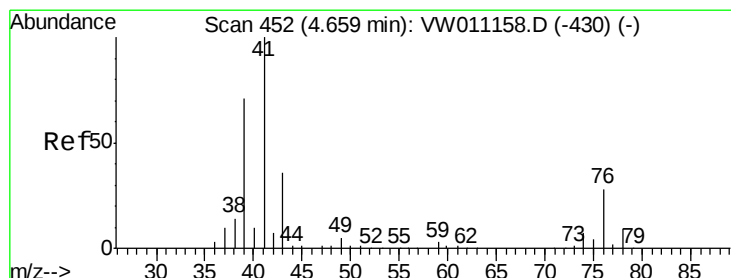
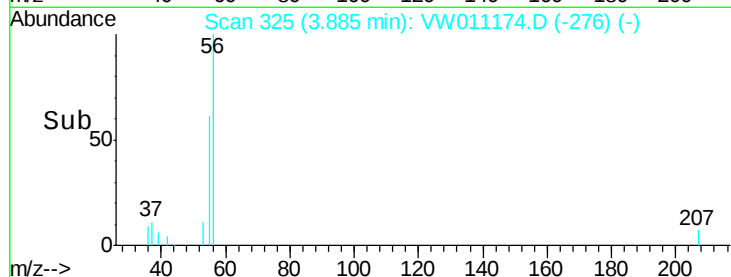
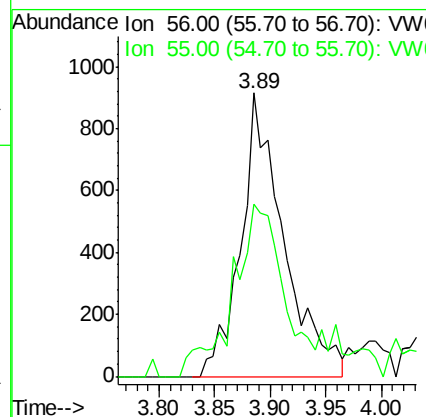
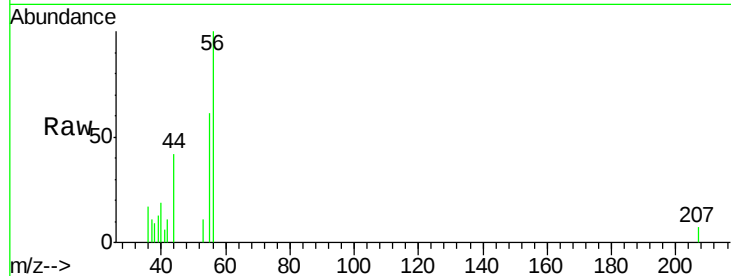
55 71.6 56.4 84.6

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#14

Allyl chloride

Concen: 2.288 ug/l

RT: 4.67 min Scan# 453

Delta R.T. 0.01 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

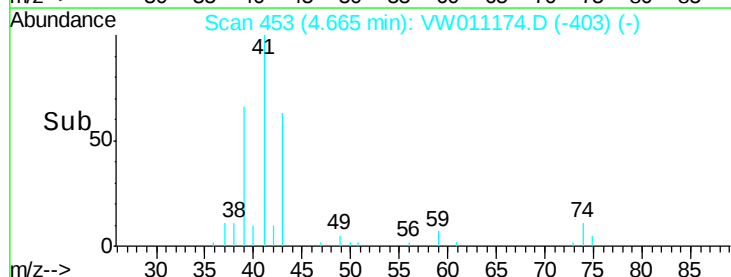
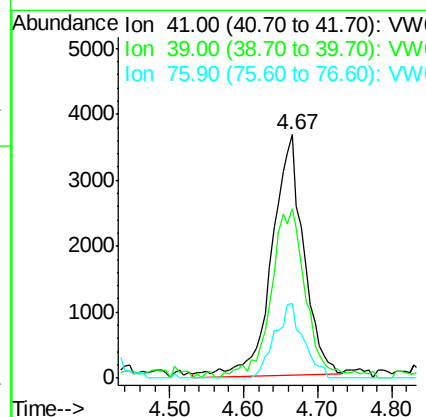
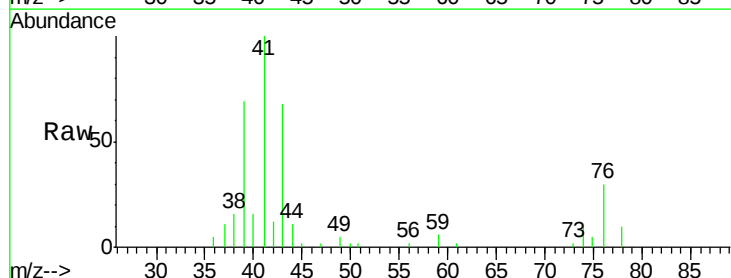
Tgt Ion: 41 Resp: 10827

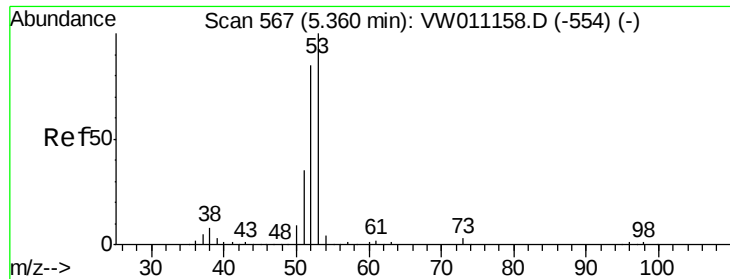
Ion Ratio Lower Upper

41 100

39 76.9 55.1 82.7

76 27.8 22.5 33.7





#15

Acrylonitrile

Concen: 11.922 ug/l

RT: 5.37 min Scan# 568

Delta R.T. 0.01 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

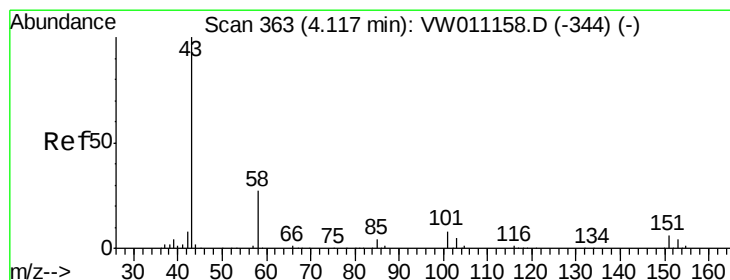
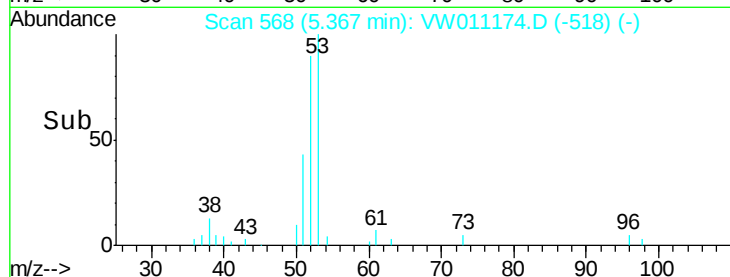
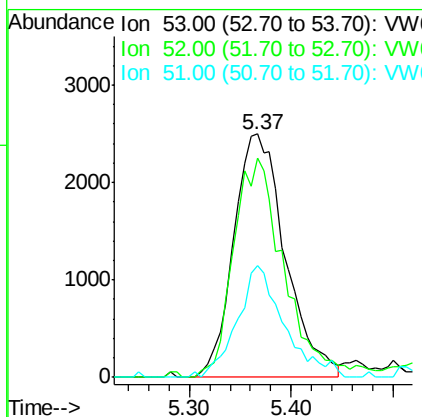
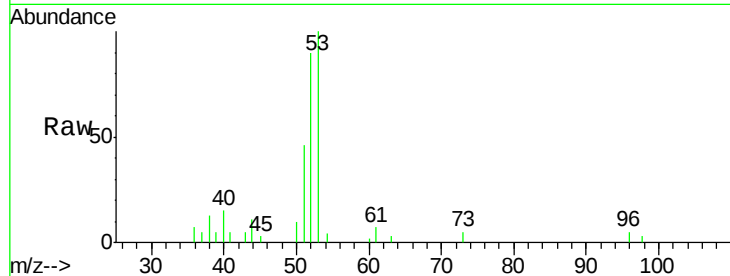
ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

Tot Ion:	53	Resp:	8768
Ion	Ratio	Lower	Upper
53	100		
52	87.3	66.2	99.4
51	41.6	29.1	43.7

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#16

Acetone

Concen: 16.174 ug/l

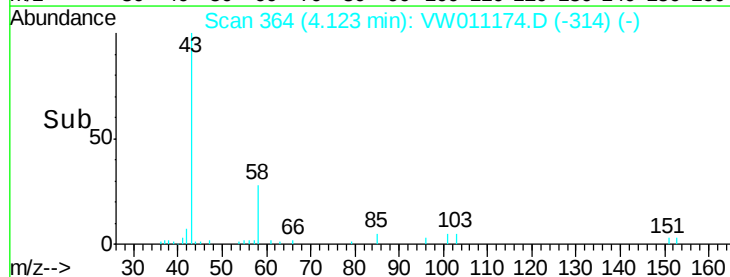
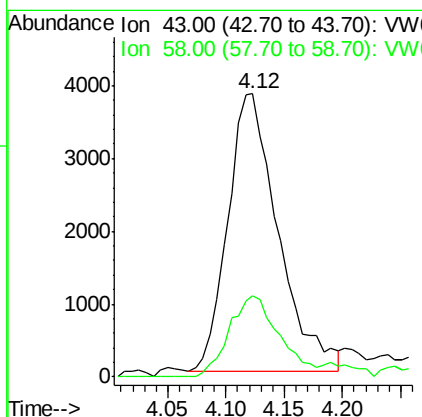
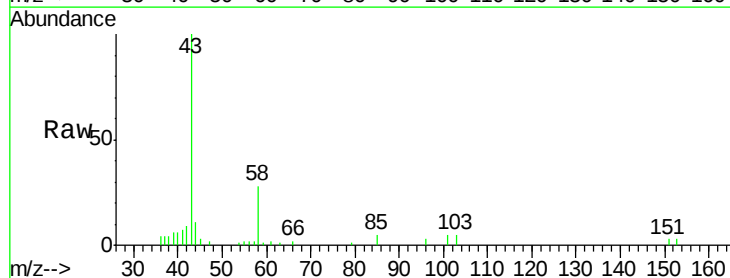
RT: 4.12 min Scan# 364

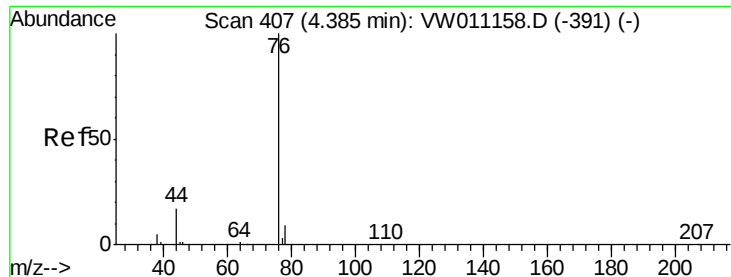
Delta R.T. 0.01 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Tgt Ion:	43	Resp:	11421
Ion	Ratio	Lower	Upper
43	100		
58	29.1	21.8	32.6





#17

Carbon Disulfide

Concen: 2.278 ug/l

RT: 4.38 min Scan# 406

Delta R.T. -0.01 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

Tot Ion: 76 Resp: 17922

Ion Ratio Lower Upper

76 100

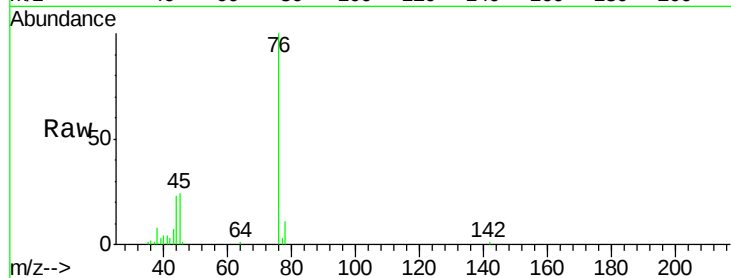
78 10.9 7.1 10.7#

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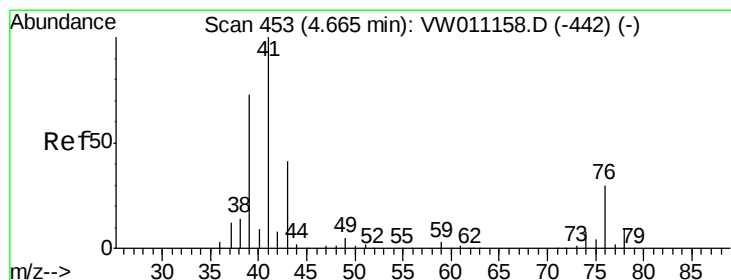
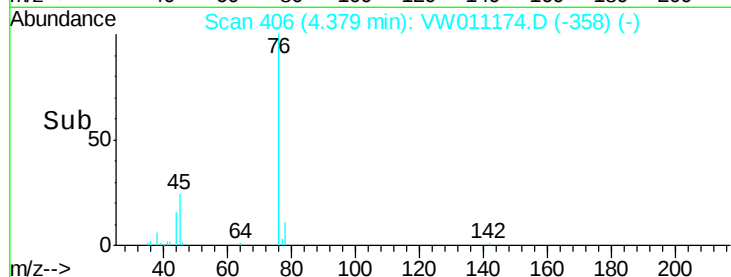
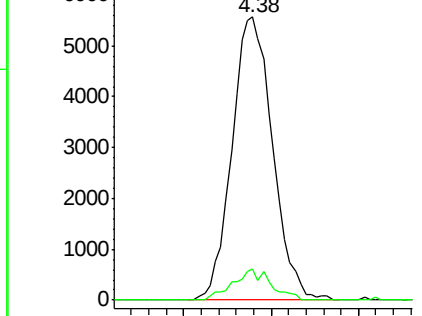
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Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#18

Methyl Acetate

Concen: 3.581 ug/l

RT: 4.68 min Scan# 455

Delta R.T. 0.01 min

Lab File: VW011174.D

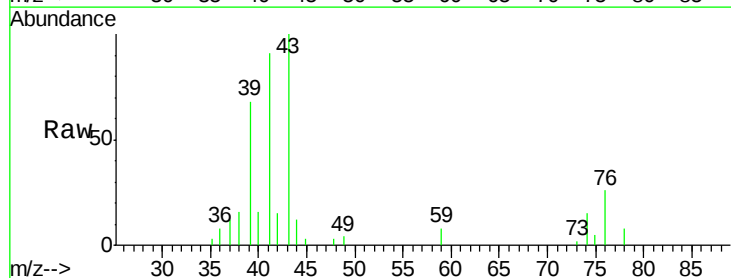
Acq: 09 Jul 2019 12:59

Tgt Ion: 43 Resp: 7909

Ion Ratio Lower Upper

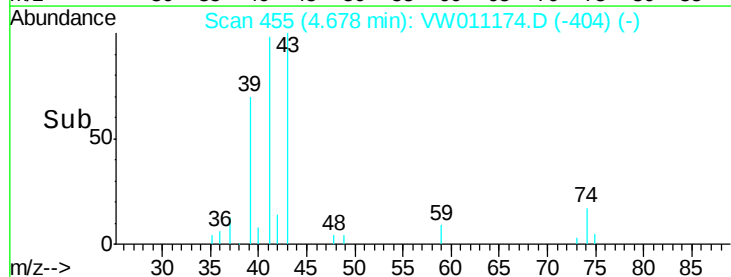
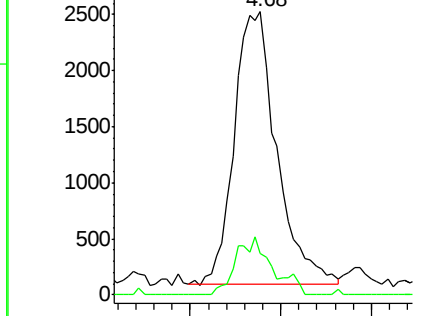
43 100

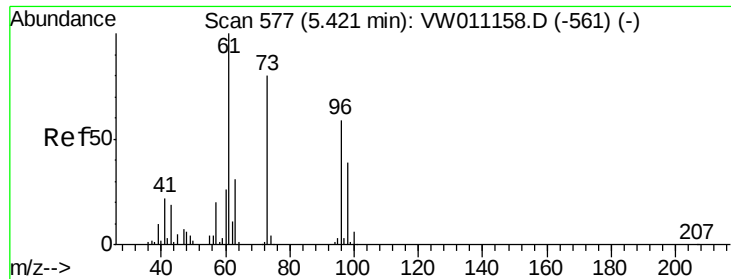
74 8.0 15.7 23.5#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW





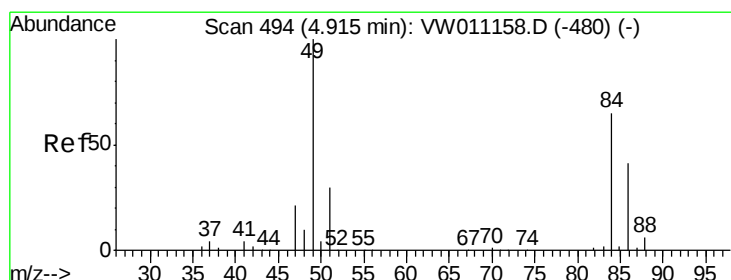
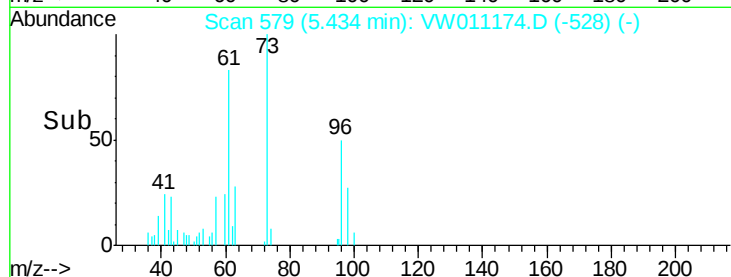
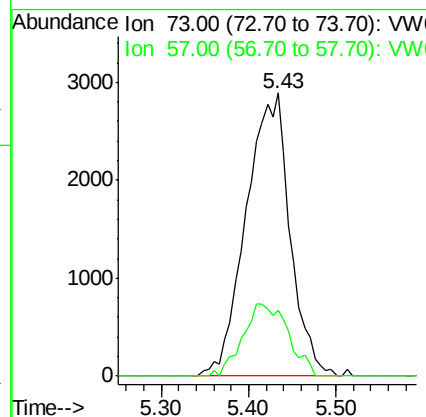
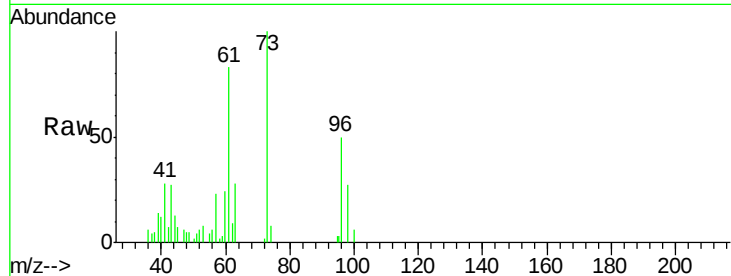
#19
Methvl tert-butvl Ether
Concen: 2.561 ug/l
RT: 5.43 min Scan# 579
Delta R.T. 0.01 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

Tot Ion: 73 Resp: 10083
Ion Ratio Lower Upper
73 100
57 23.0 19.7 29.5

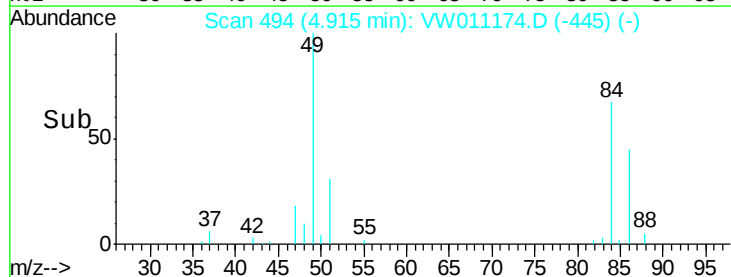
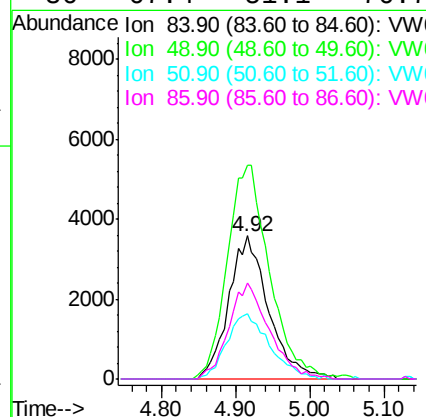
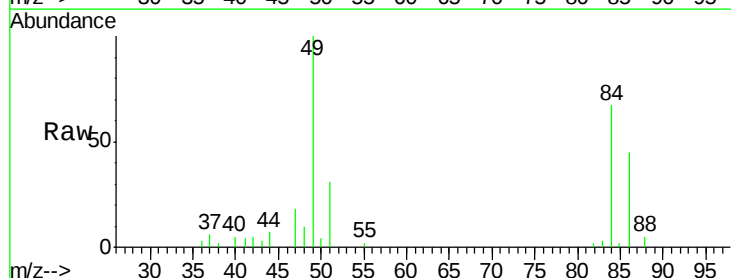
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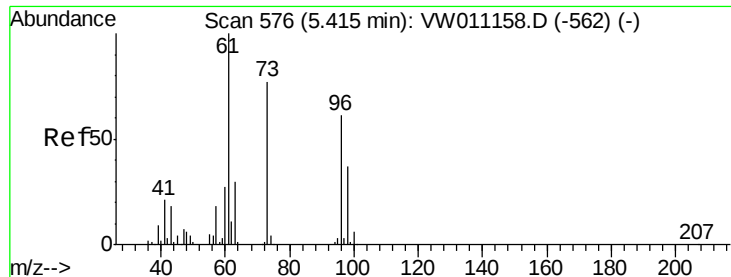
MMDadoda
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#20
Methylene Chloride
Concen: 4.808 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Tgt Ion: 84 Resp: 13393
Ion Ratio Lower Upper
84 100
49 149.6 123.8 185.6
51 45.7 37.4 56.2
86 67.4 51.1 76.7





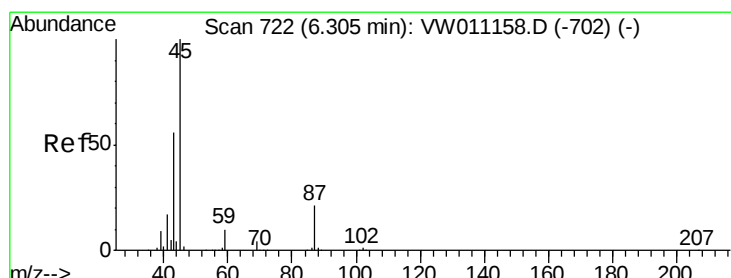
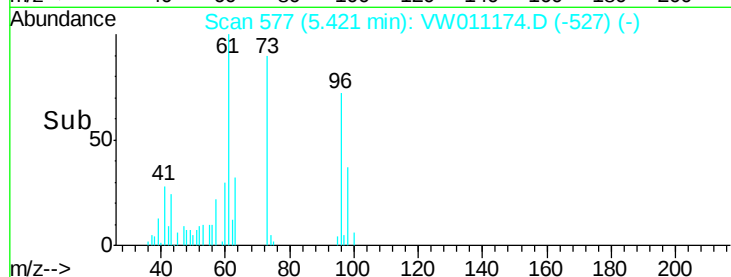
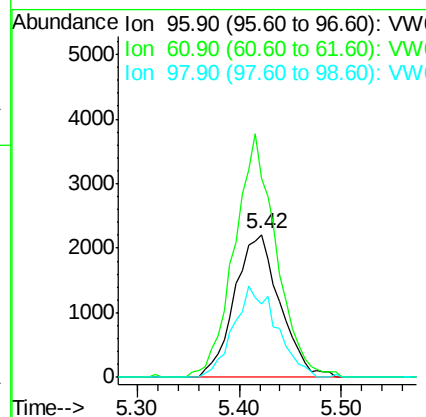
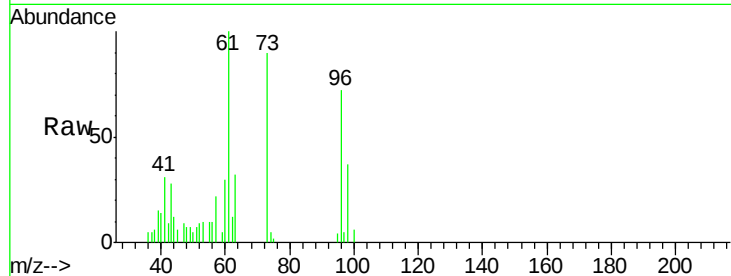
#21
trans-1,2-Dichloroethene
Concen: 2.528 ug/l
RT: 5.42 min Scan# 577
Delta R.T. 0.01 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	139.0	132.2	198.2
98	51.6	49.4	74.0

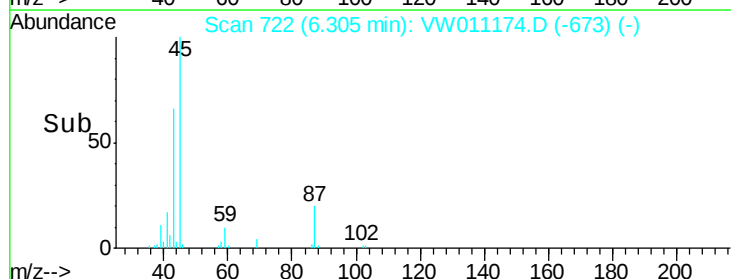
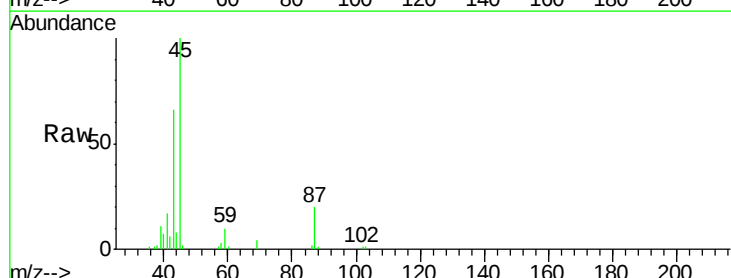
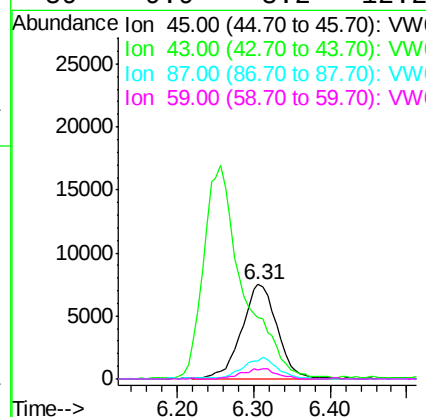
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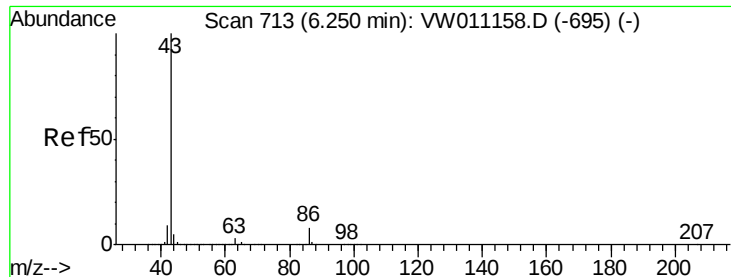
MMDadoda
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#22
Diisopropyl ether
Concen: 2.389 ug/l
RT: 6.31 min Scan# 722
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Tgt Ion	Ratio	Lower	Upper
45	100		
43	63.5	44.6	66.8
87	19.7	17.3	25.9
59	9.9	8.2	12.2





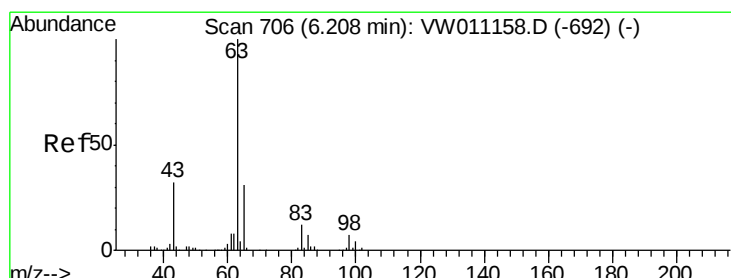
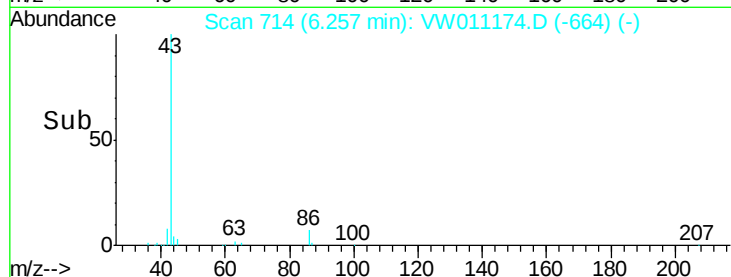
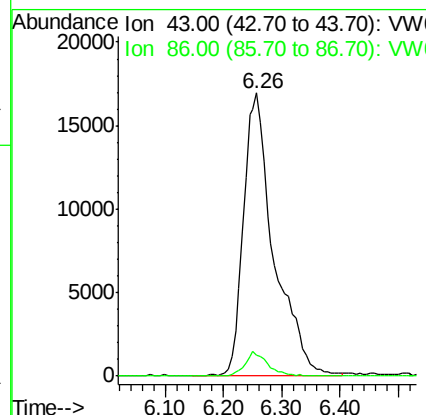
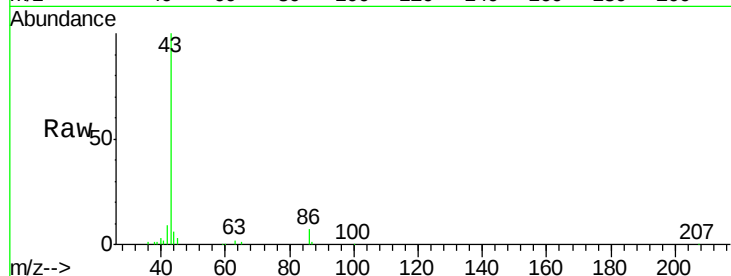
#23
 Vinyl Acetate
 Concen: 9.750 ug/l
 RT: 6.26 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VW011174.D
 Acq: 09 Jul 2019 12:59

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
43	100		
86	7.4	6.5	9.7

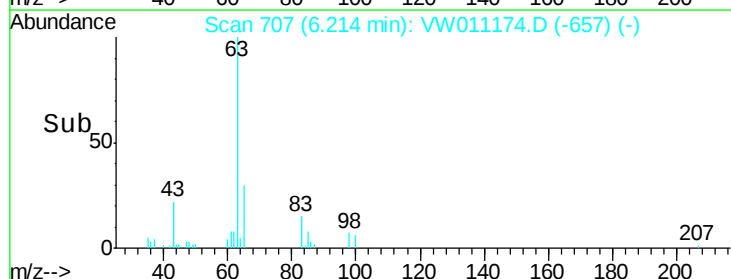
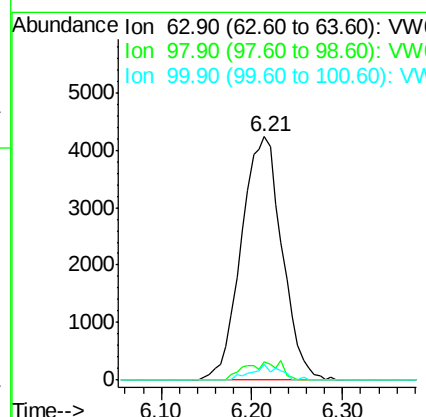
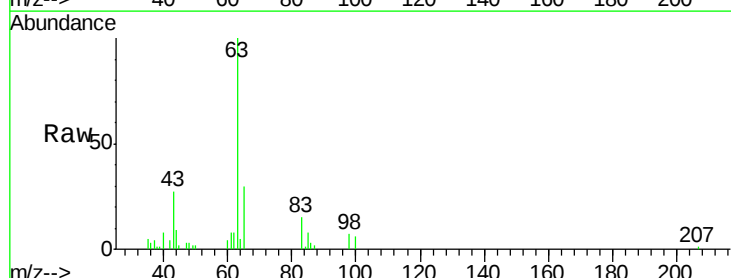
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#24
 1,1-Dichloroethane
 Concen: 2.459 ug/l
 RT: 6.21 min Scan# 707
 Delta R.T. 0.01 min
 Lab File: VW011174.D
 Acq: 09 Jul 2019 12:59

Tgt Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.3	9.9
100	6.4	2.1	6.2#





#25

2-Butanone

Concen: 12.580 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

Tot Ion: 43 Resp: 13945

Ion Ratio Lower Upper

43 100

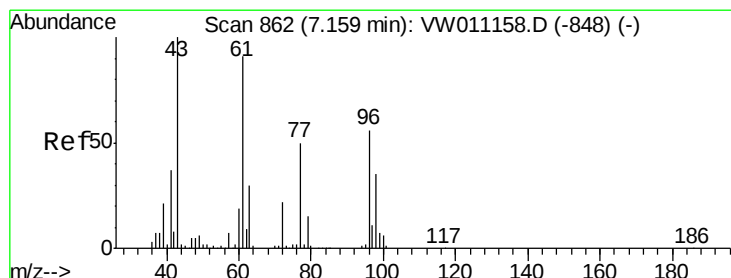
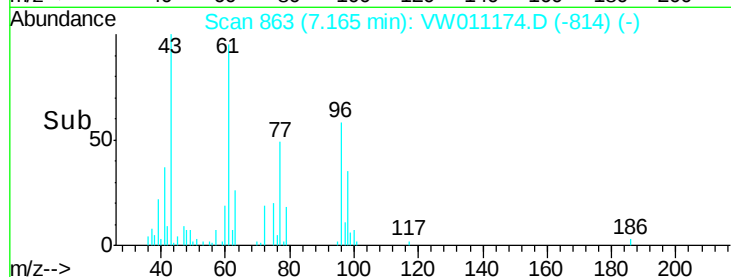
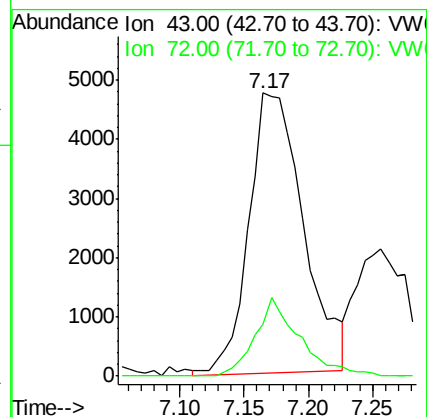
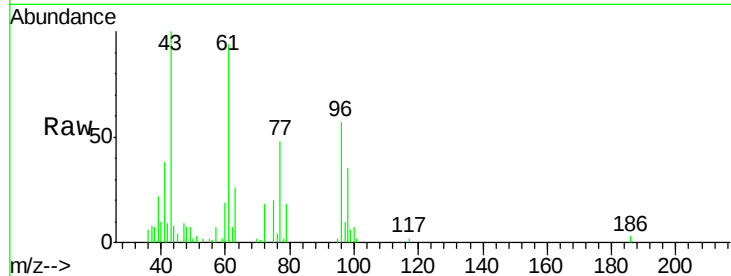
72 18.8 17.6 26.4

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 2.440 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.01 min

Lab File: VW011174.D

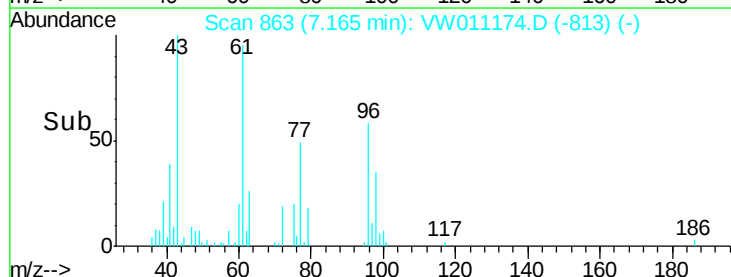
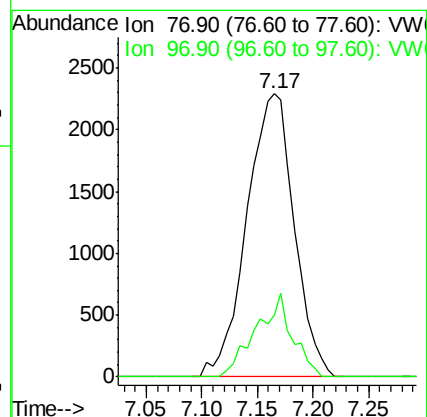
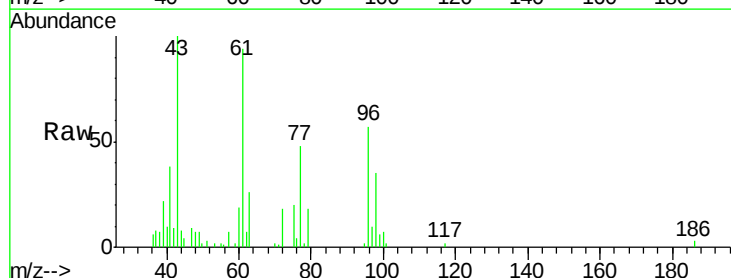
Acq: 09 Jul 2019 12:59

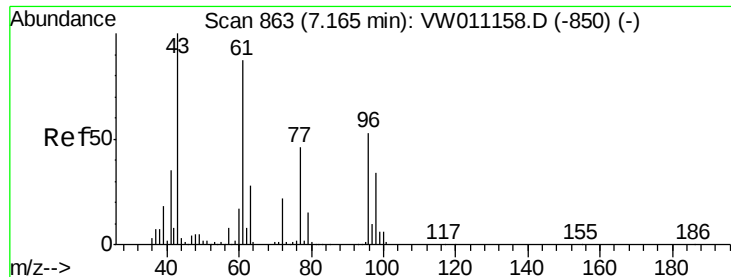
Tgt Ion: 77 Resp: 6777

Ion Ratio Lower Upper

77 100

97 22.8 11.2 33.5





#27

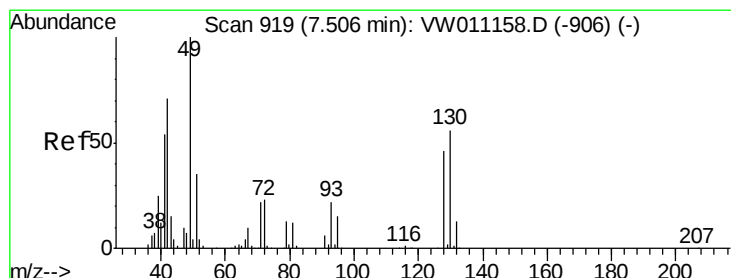
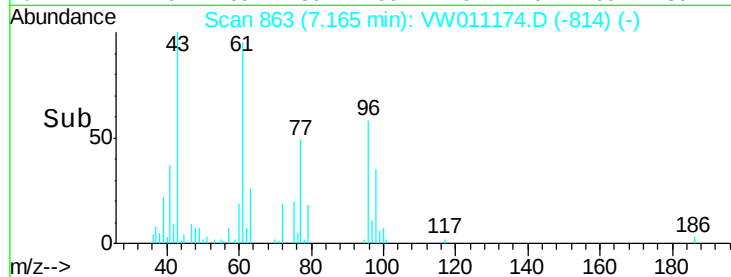
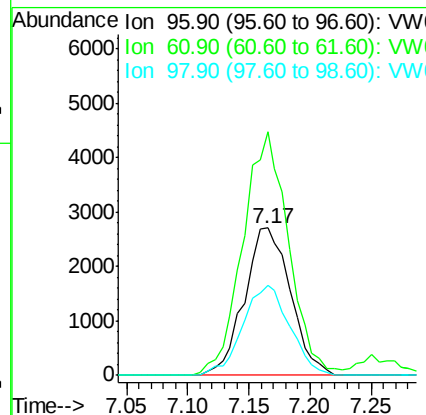
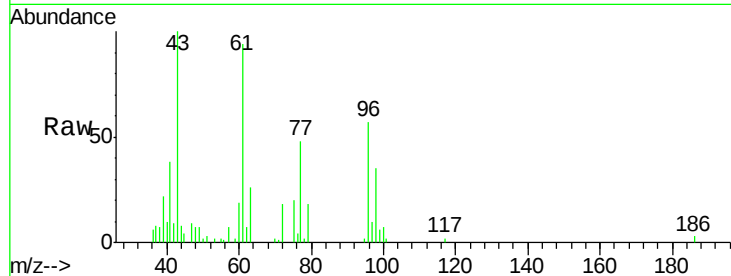
cis-1,2-Dichloroethene
Concen: 2.441 ug/l
RT: 7.17 min Scan# 863
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	164.3	0.0	325.6
98	61.9	0.0	128.2

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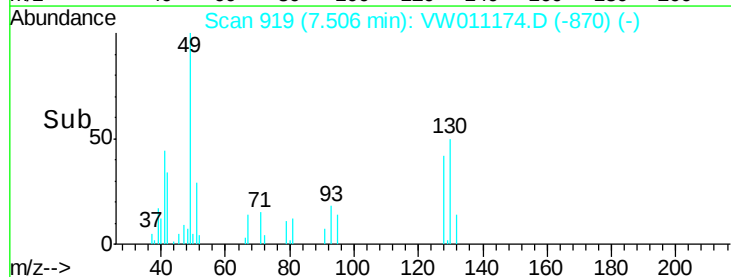
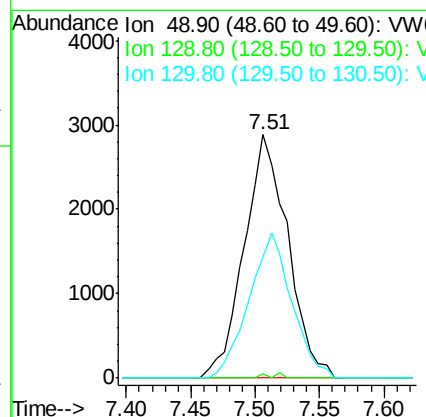
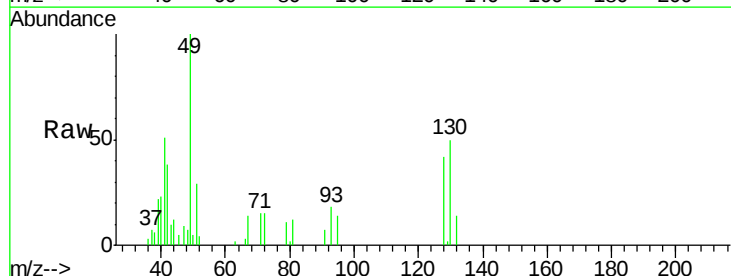
MMDadoda
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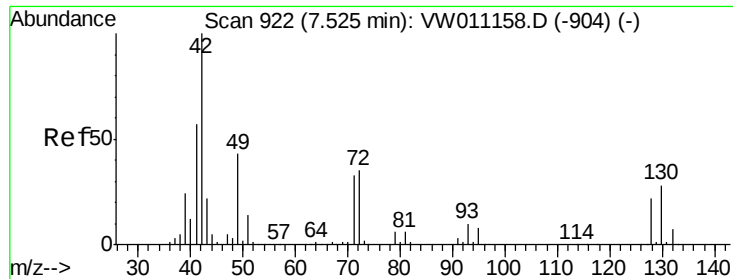


#28

Bromochloromethane
Concen: 2.782 ug/l
RT: 7.51 min Scan# 919
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.6	0.0	1.4
130	58.5	45.8	68.8





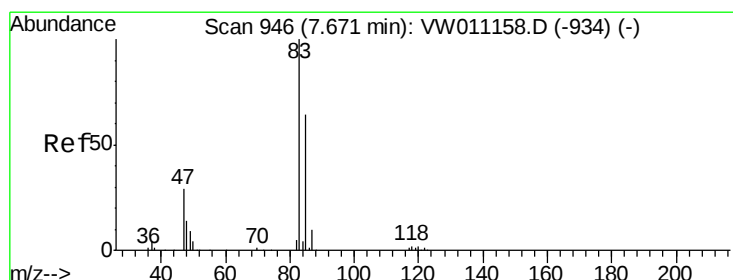
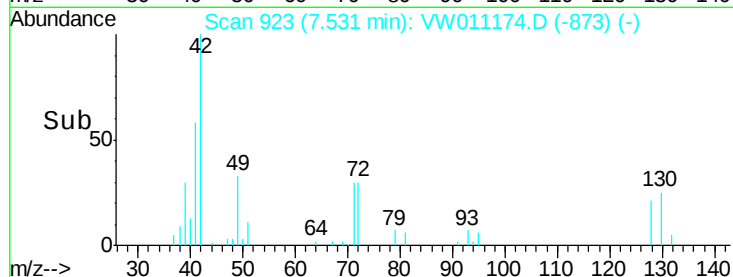
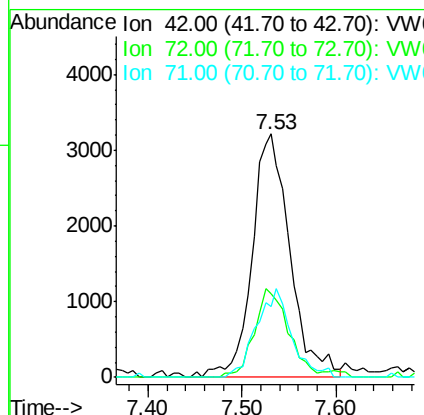
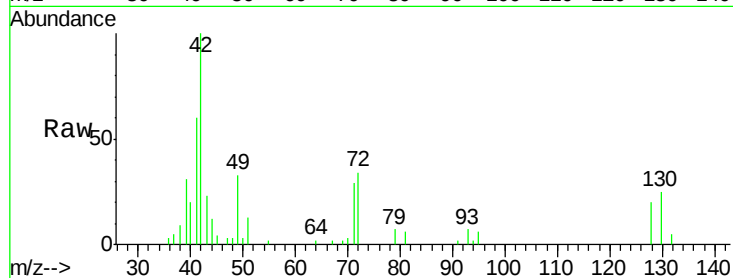
#29
Tetrahydrofuran
Concen: 12.472 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.01 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
42	100		
72	33.0	27.4	41.2
71	33.5	25.9	38.9

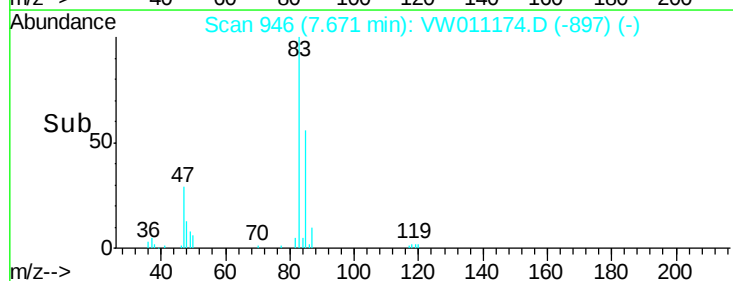
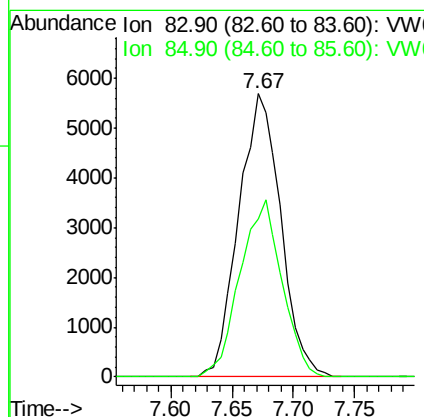
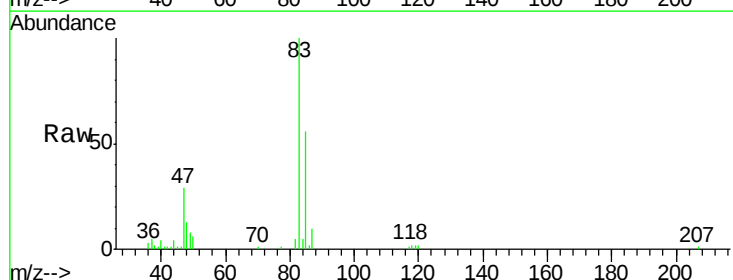
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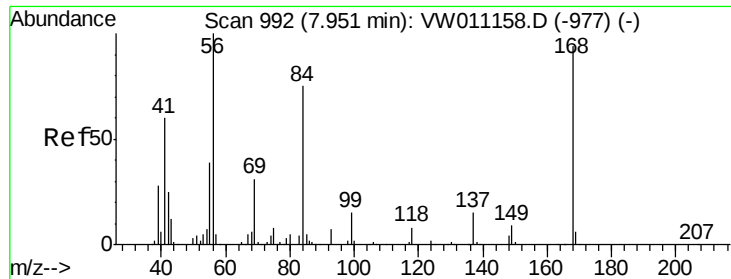
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#30
Chloroform
Concen: 2.743 ug/l
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Tgt Ion	Ratio	Lower	Upper
83	100		
85	55.8	51.4	77.2





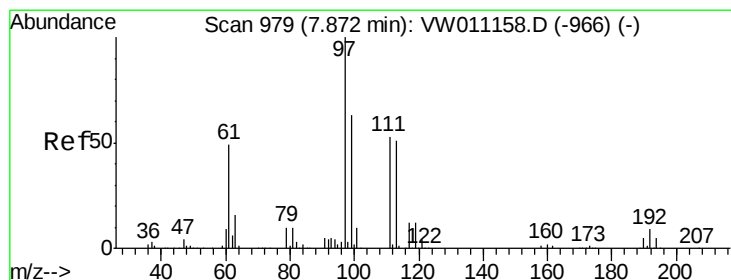
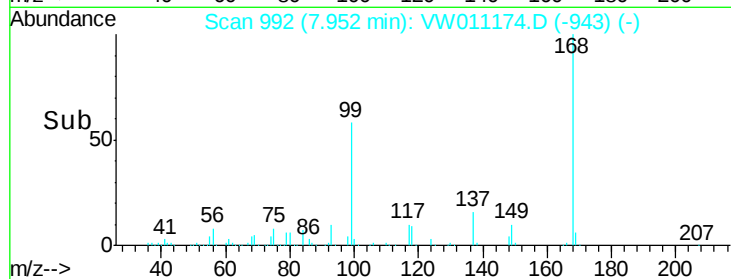
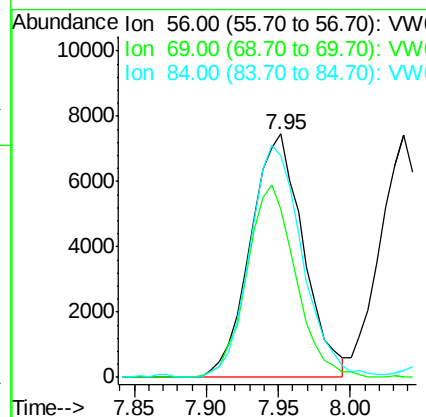
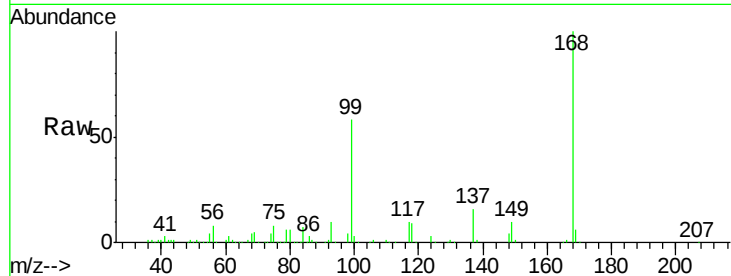
#31
Cvclohexane
Concen: 3.331 ug/l
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

Tot Ion	Ratio	Resp	Lower	Upper
56	100	18939		
69	69.0		24.6	36.8#
84	91.0		60.1	90.1#

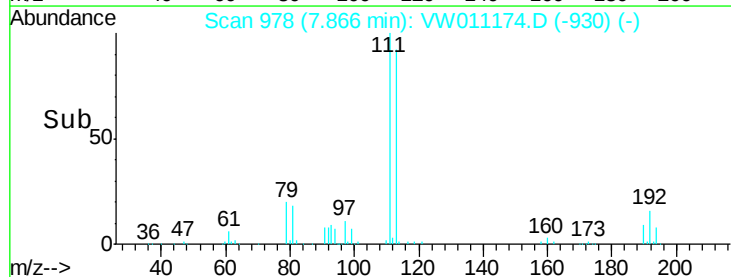
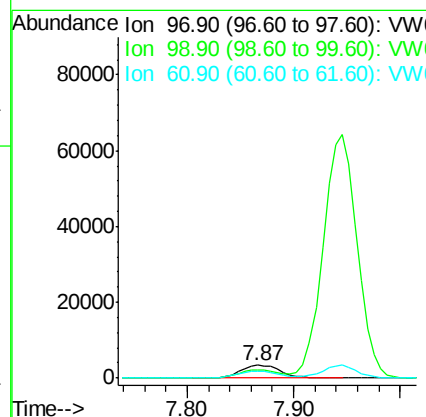
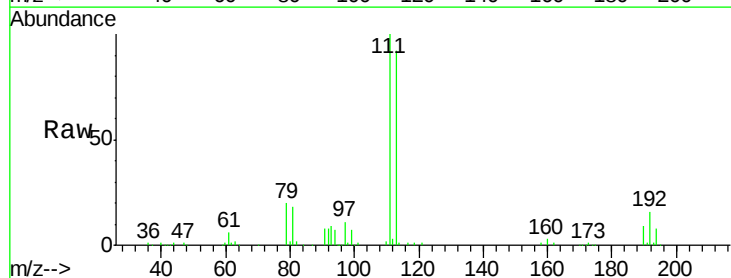
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#32
1,1,1-Trichloroethane
Concen: 2.425 ug/l
RT: 7.87 min Scan# 978
Delta R.T. -0.01 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	9128		
99	59.9		51.0	76.4
61	53.9		40.4	60.6





#33

1,2-Dichloroethane-d4

Concen: 49.288 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

Tot Ion: 65 Resp: 144651

Ion Ratio Lower Upper

65 100

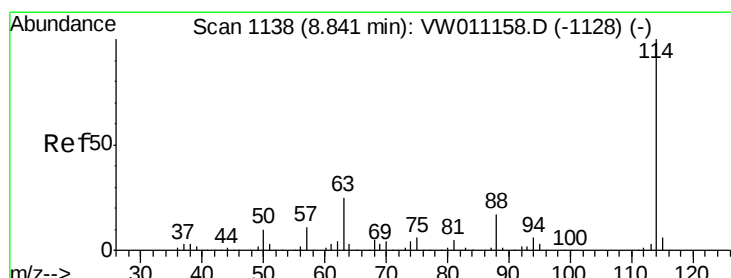
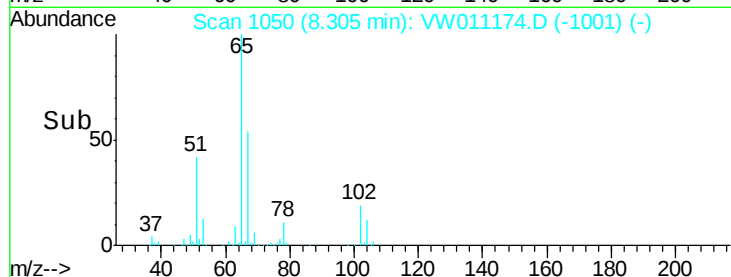
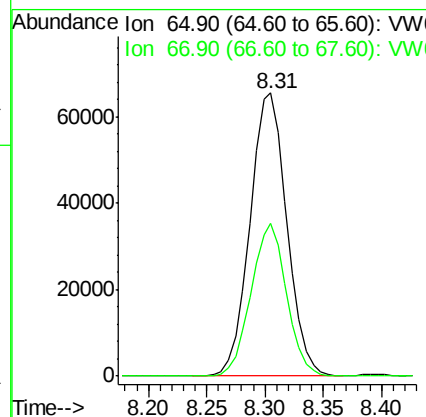
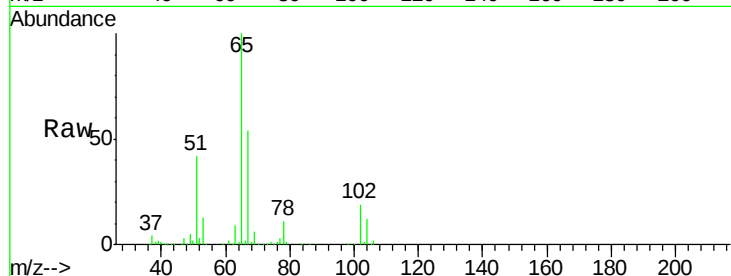
67 52.0 0.0 104.4

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

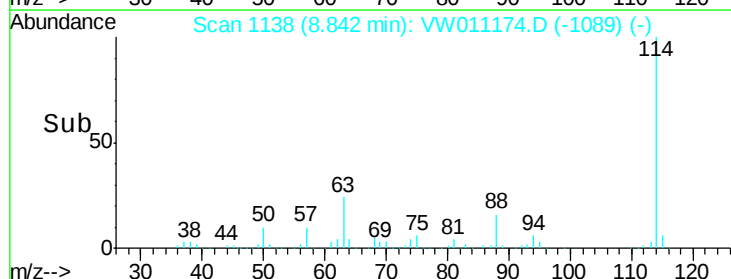
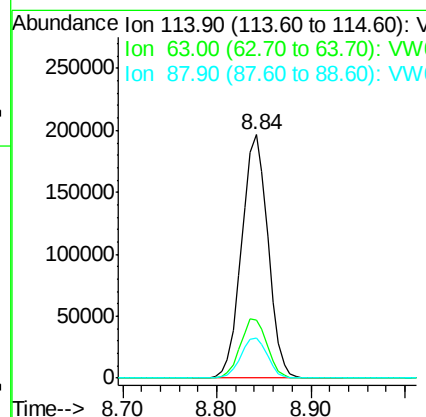
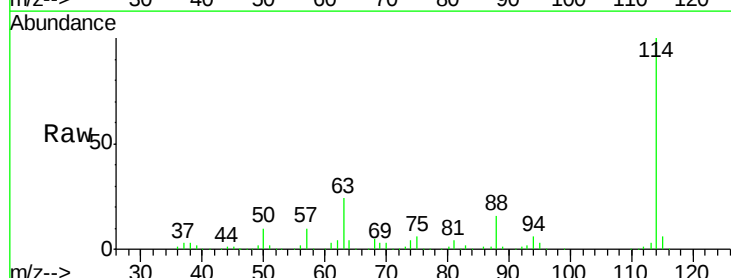
Tgt Ion: 114 Resp: 383411

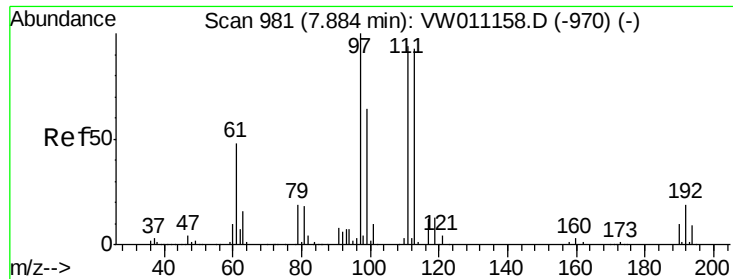
Ion Ratio Lower Upper

114 100

63 24.0 0.0 50.8

88 16.2 0.0 34.2





#35

Dibromofluoromethane

Concen: 48.827 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

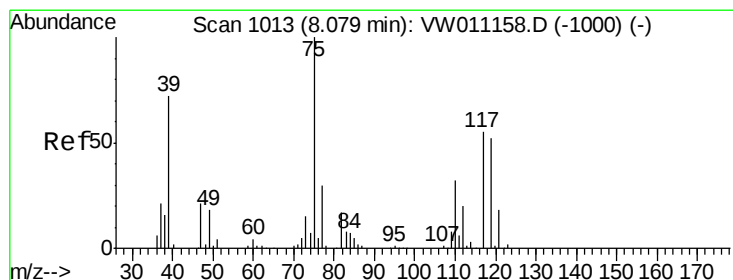
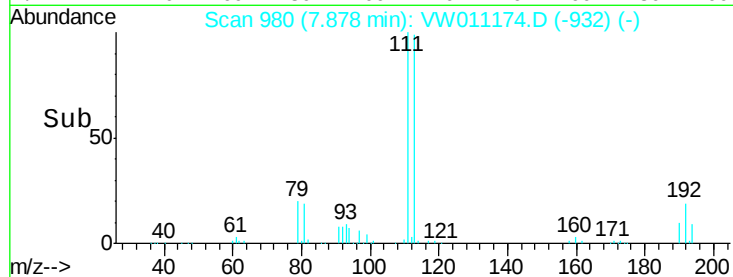
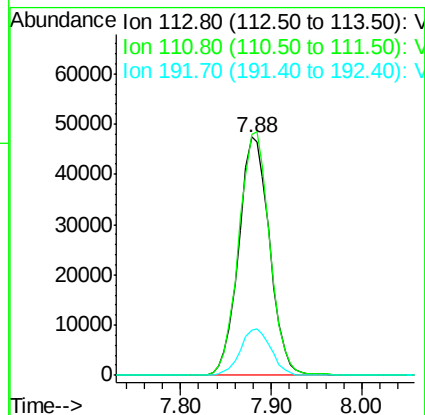
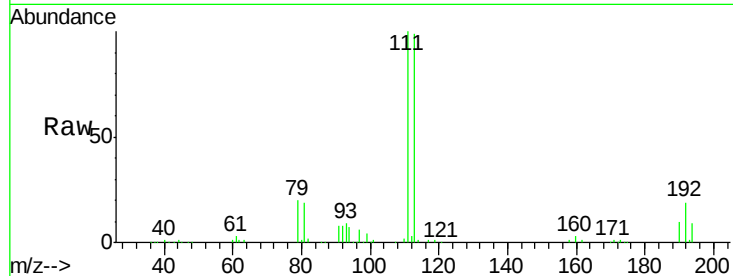
ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

Tot Ion:	113	Resp:	111585
Ion Ratio	Lower	Upper	
113	100		
111	102.6	82.4	123.6
192	19.5	15.8	23.8

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#36

1,1-Dichloropropene

Concen: 2.523 ug/l

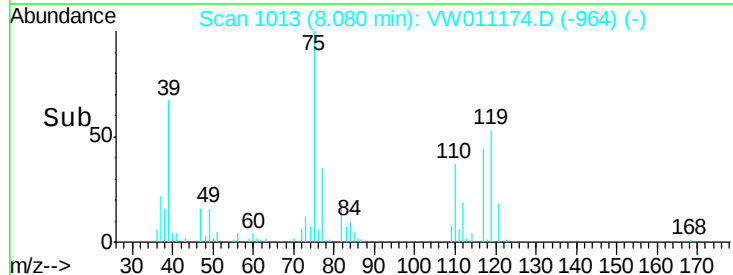
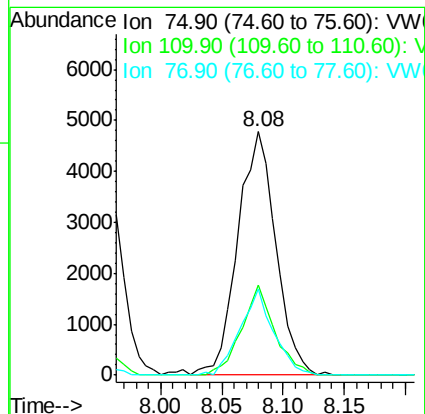
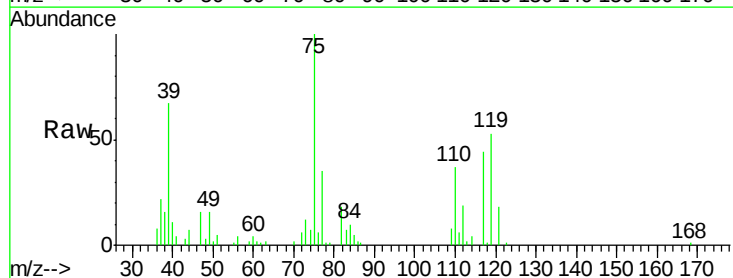
RT: 8.08 min Scan# 1013

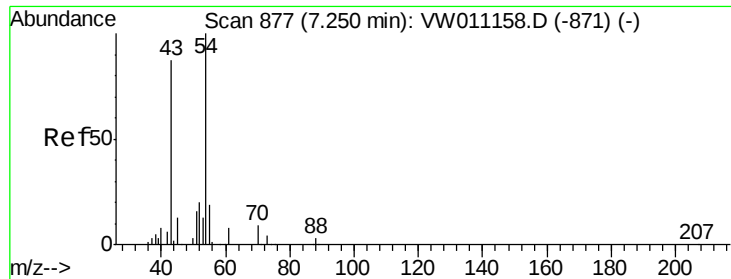
Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Tgt Ion:	75	Resp:	10300
Ion Ratio	Lower	Upper	
75	100		
110	32.2	15.9	47.6
77	31.3	24.6	36.8





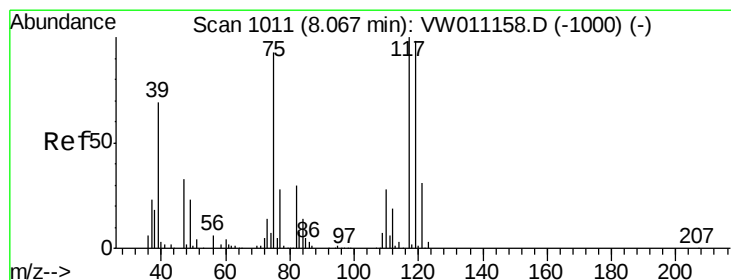
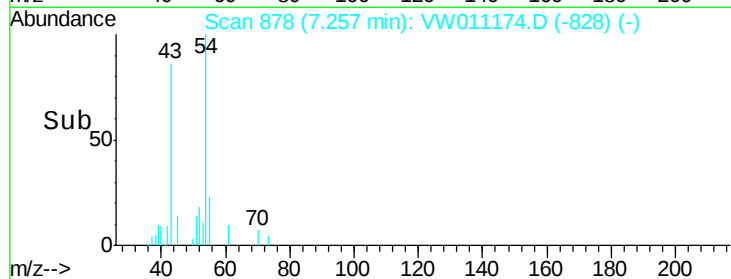
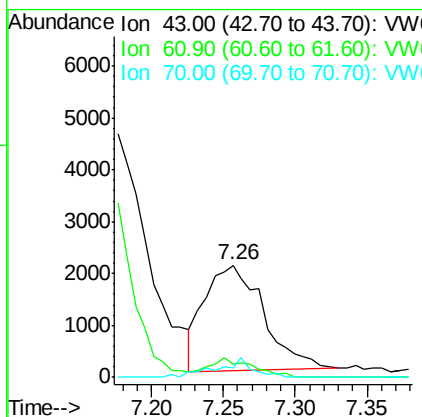
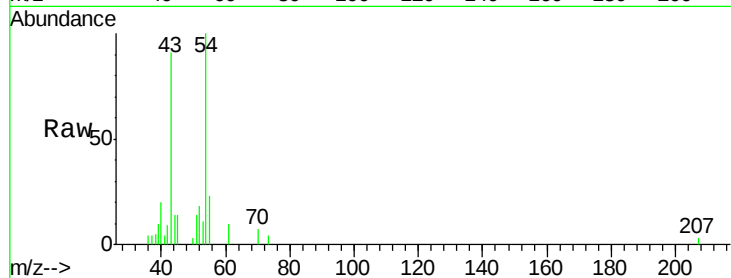
#37
Ethyl Acetate
Concen: 2.358 ug/l
RT: 7.26 min Scan# 878
Delta R.T. 0.01 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.7	9.5	14.3
70	11.2	7.1	10.7

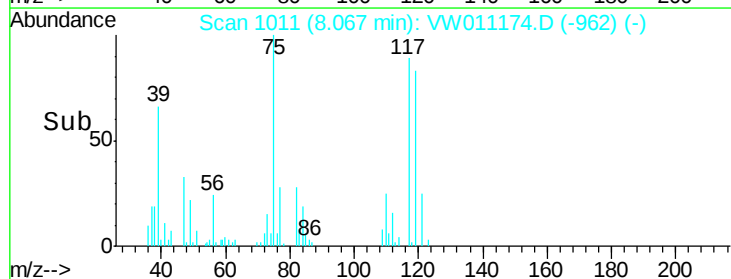
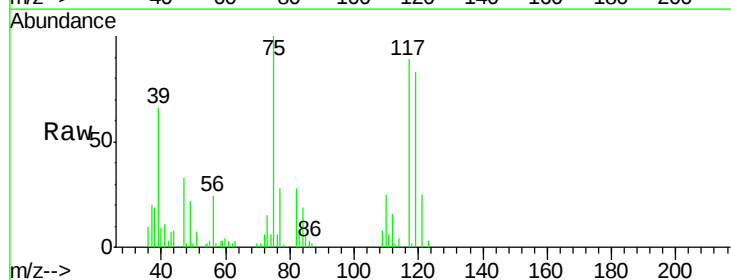
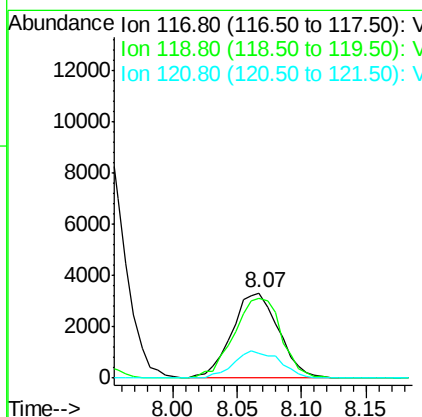
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#38
Carbon Tetrachloride
Concen: 2.421 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.1	78.1	117.1
121	28.5	25.1	37.7





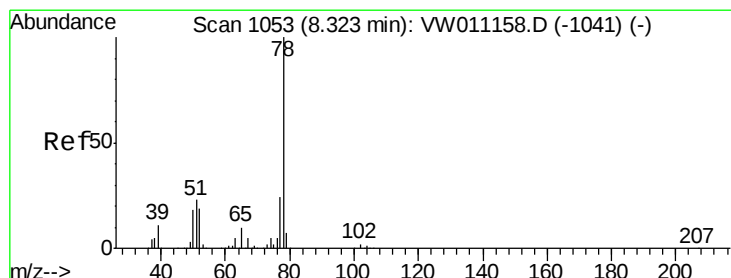
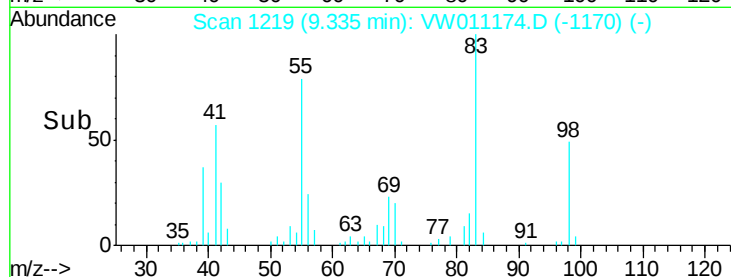
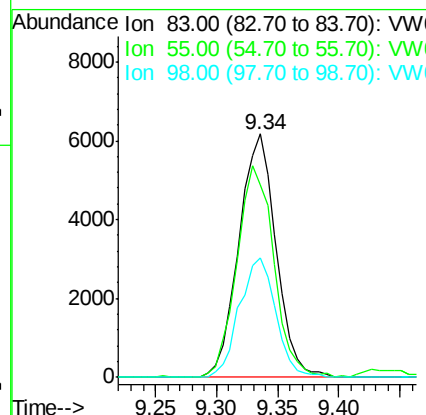
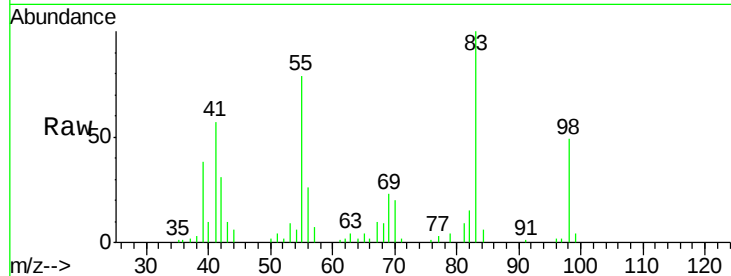
#39
Methvlcvclohexane
Concen: 2.628 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
83	100		
55	78.9	71.2	106.8
98	48.8	37.5	56.3

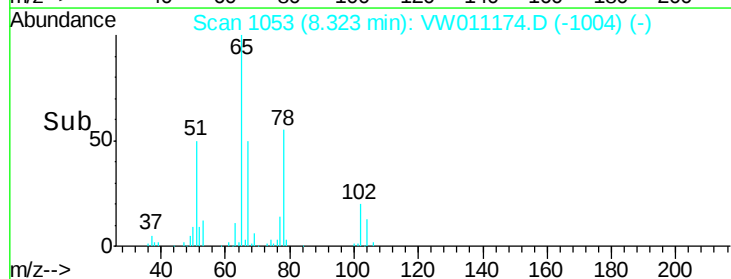
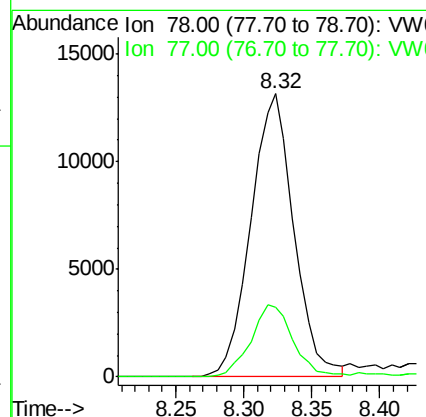
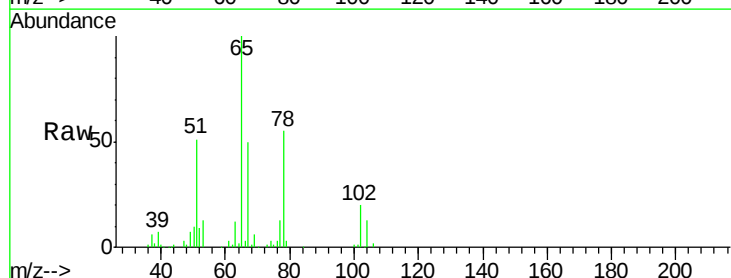
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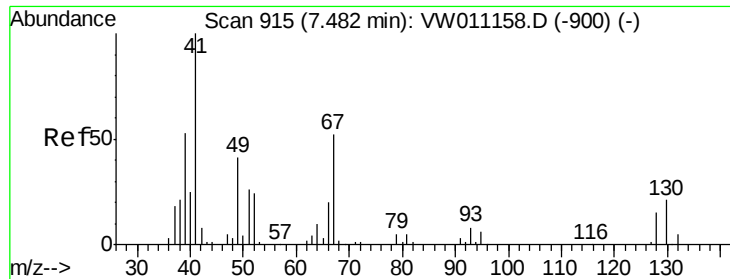
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#40
Benzene
Concen: 2.580 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.5	19.0	28.6





#41

Methacrylonitrile

Concen: 2.520 ug/l

RT: 7.49 min Scan# 916

Delta R.T. 0.01 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

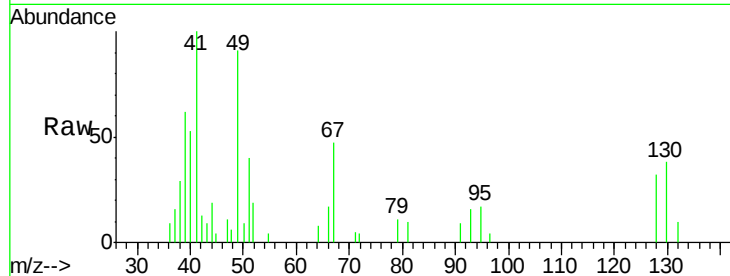
ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

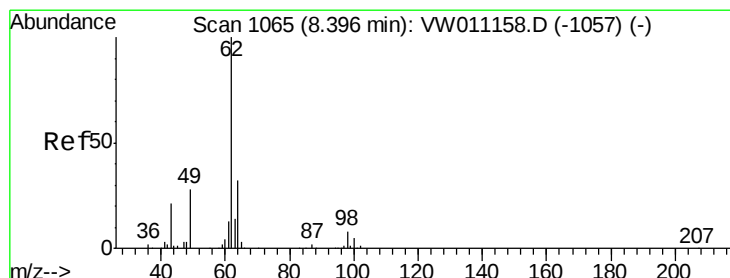
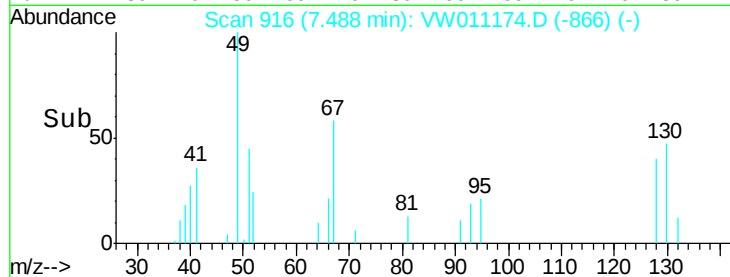
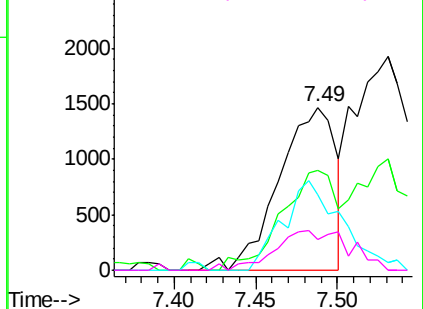
Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	58.3	48.0	72.0	
67	58.4	49.7	74.5	
52	32.2	23.4	35.0	

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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: 2.688 ug/l

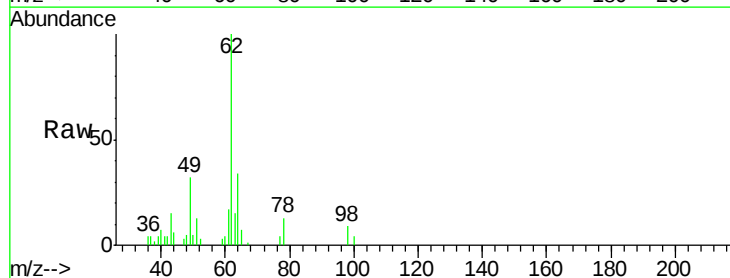
RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

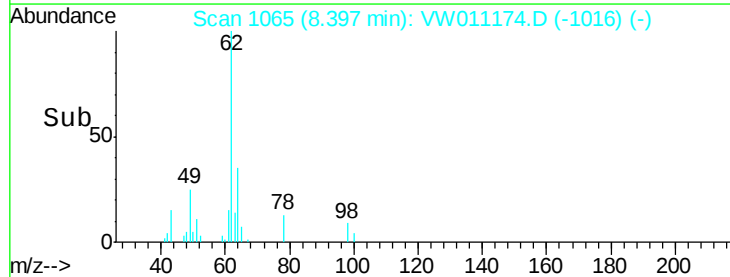
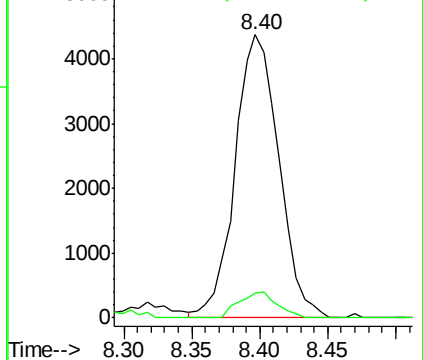
Lab File: VW011174.D

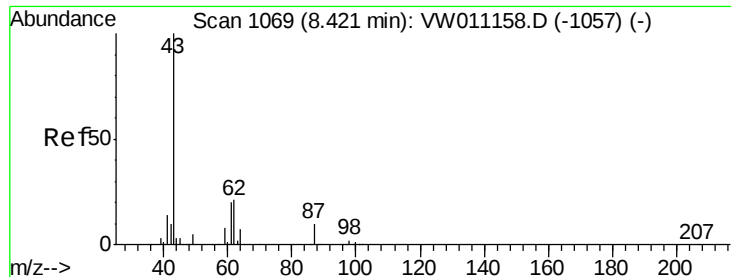
Acq: 09 Jul 2019 12:59

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	7.9	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: 2.429 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

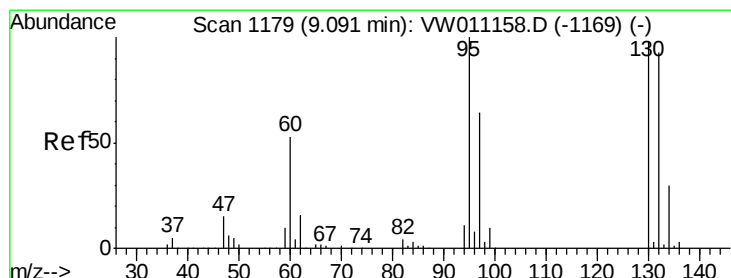
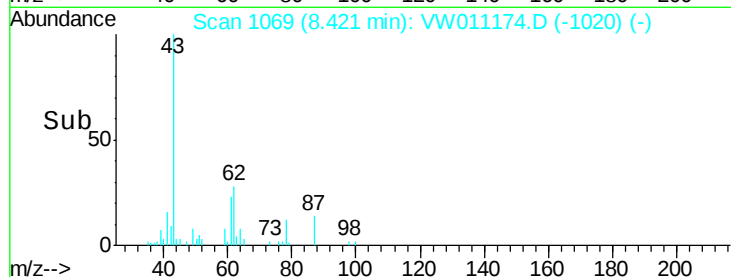
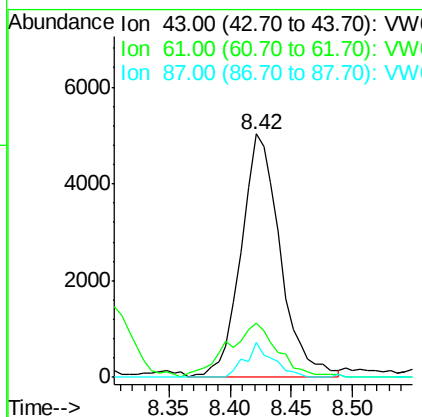
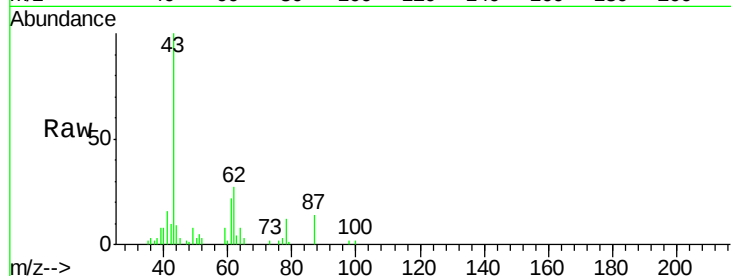
ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

Tot Ion:	43	Resp:	11248
Ion	Ratio	Lower	Upper
43	100		
61	28.7	20.7	31.1
87	10.1	8.1	12.1

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#44

Trichloroethene

Concen: 2.498 ug/l

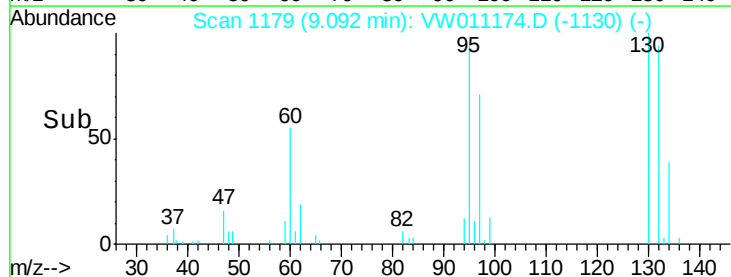
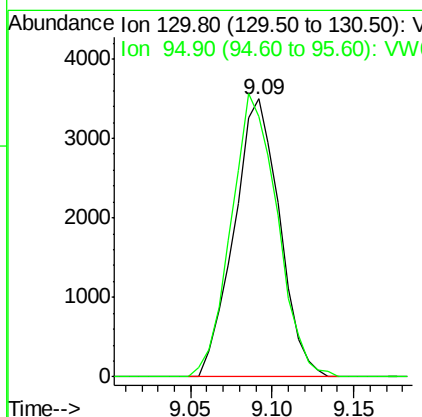
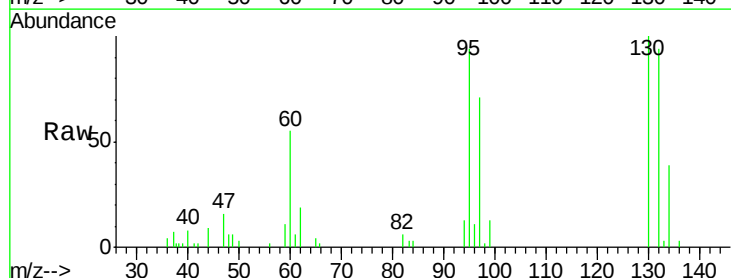
RT: 9.09 min Scan# 1179

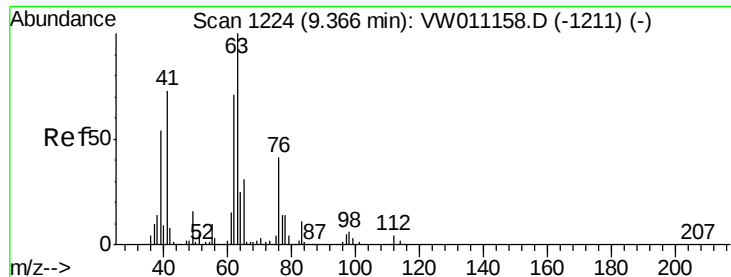
Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Tgt Ion:	130	Resp:	6782
Ion	Ratio	Lower	Upper
130	100		
95	93.5	0.0	203.6





#45

1,2-Dichloropropane

Concen: 2.557 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

Tot Ion: 63 Resp: 7812

Ion Ratio Lower Upper

63 100

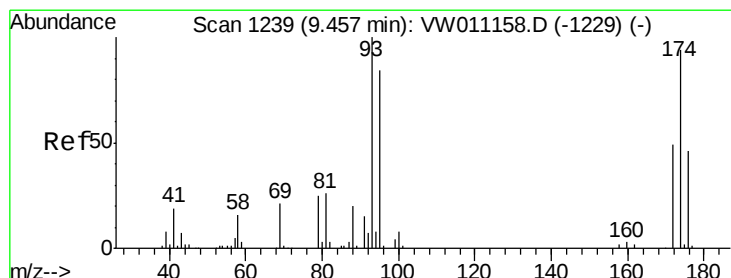
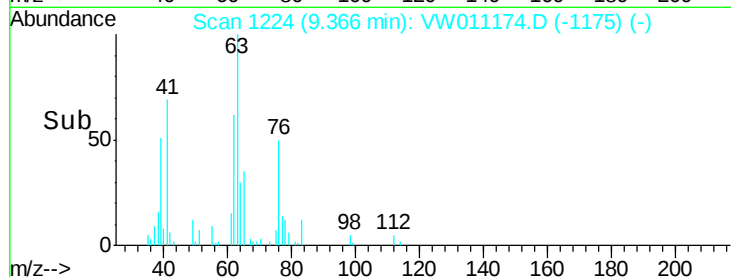
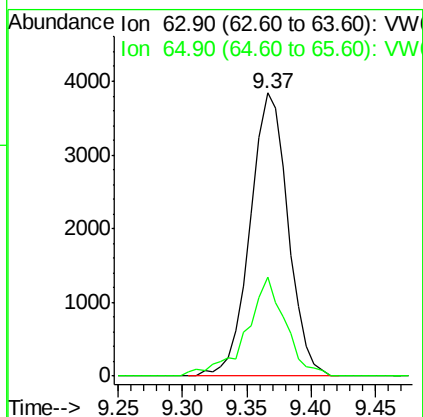
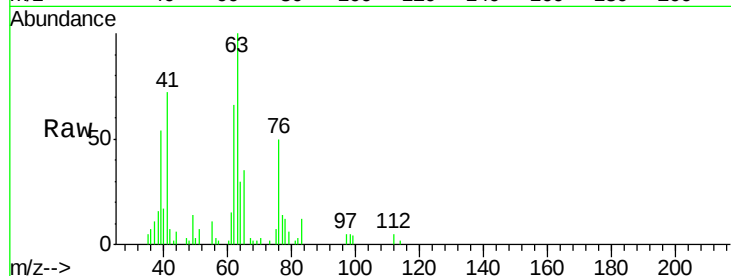
65 34.9 24.4 36.6

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MMDadoda

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#46

Dibromomethane

Concen: 2.532 ug/l

RT: 9.46 min Scan# 1240

Delta R.T. 0.01 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

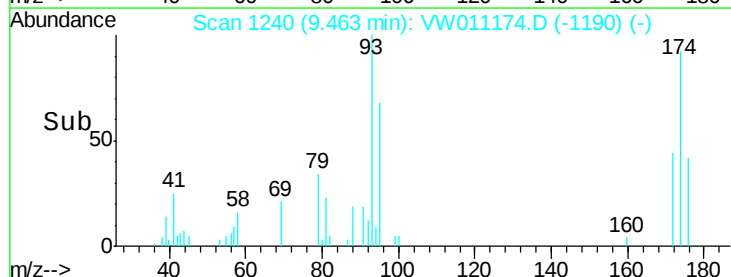
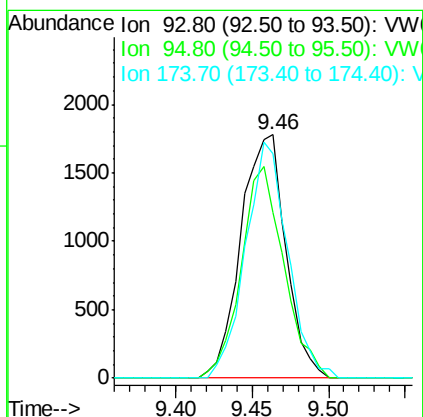
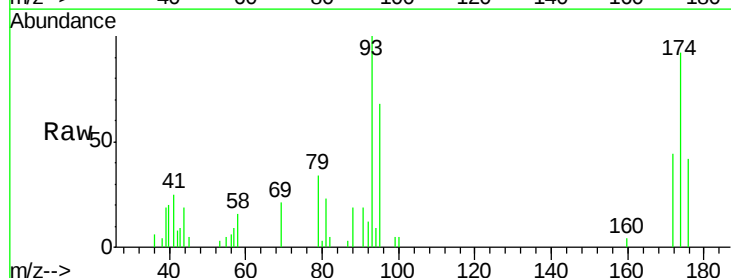
Tgt Ion: 93 Resp: 3634

Ion Ratio Lower Upper

93 100

95 82.7 67.2 100.8

174 90.9 76.3 114.5





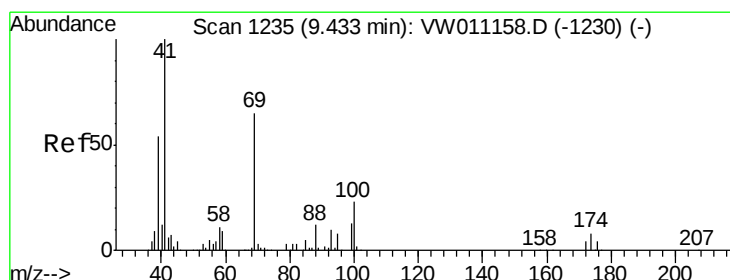
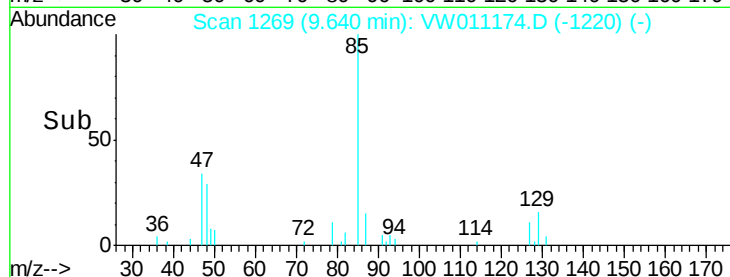
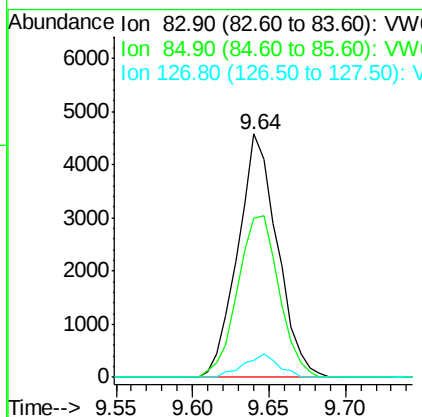
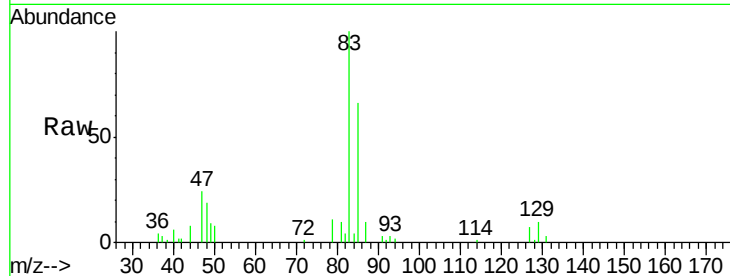
#47
Bromodichloromethane
Concen: 2.235 ug/l
RT: 9.64 min Scan# 1269
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

Tot Ion	83	Resp	8209
Ion Ratio	100	Lower	Upper
83	100		
85	65.5	51.0	76.4
127	6.9	6.0	9.0

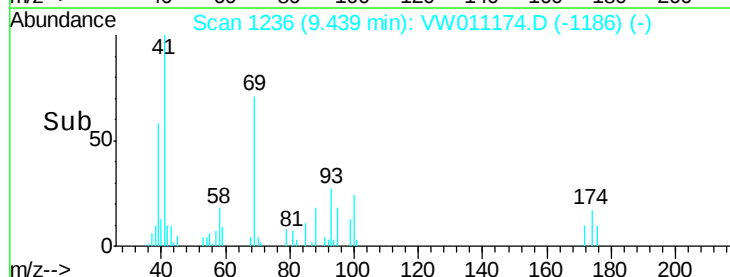
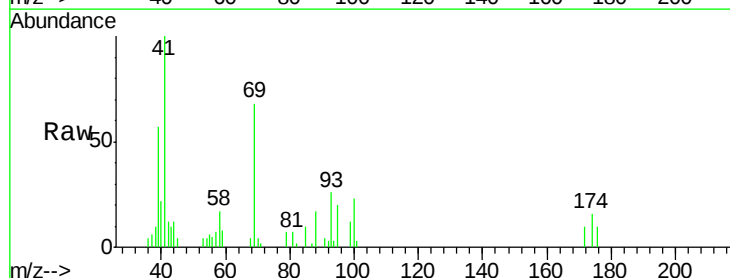
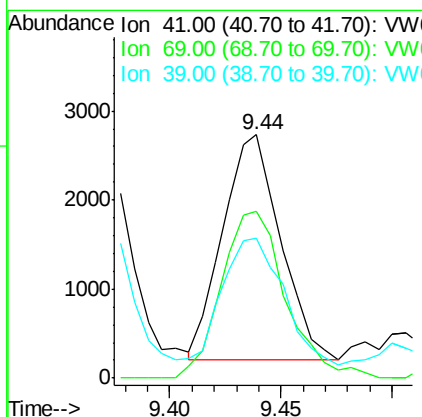
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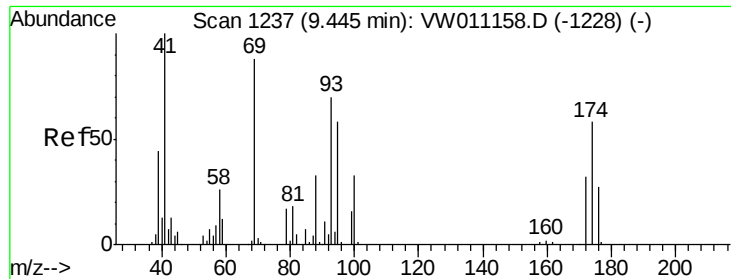
MMDadoda
7/10/2019 10:47:49 AM



#48
Methyl methacrylate
Concen: 2.039 ug/l
RT: 9.44 min Scan# 1236
Delta R.T. 0.01 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Tgt Ion	41	Resp	4543
Ion Ratio	100	Lower	Upper
41	100		
69	82.7	56.0	84.0
39	59.9	43.5	65.3





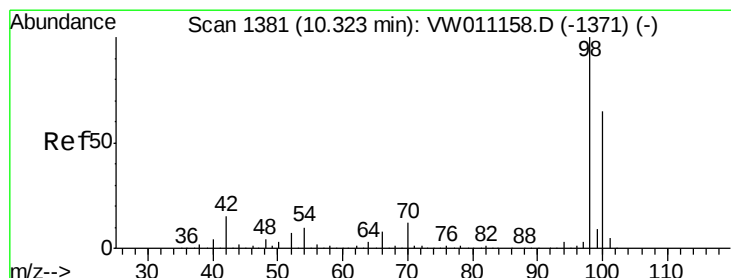
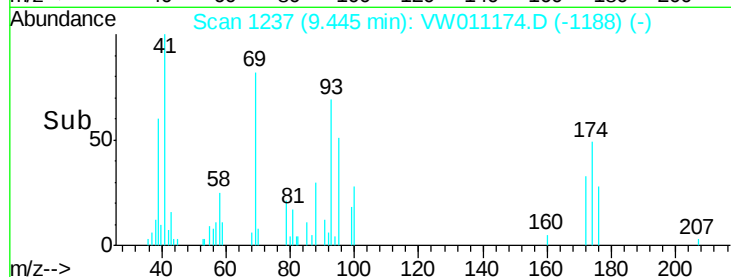
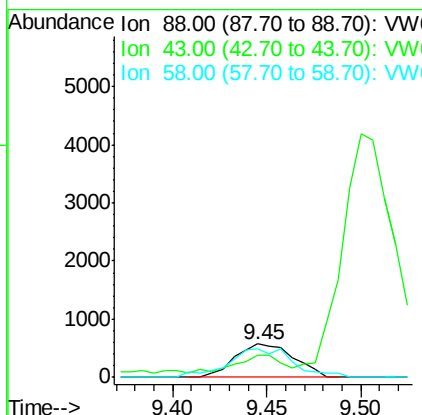
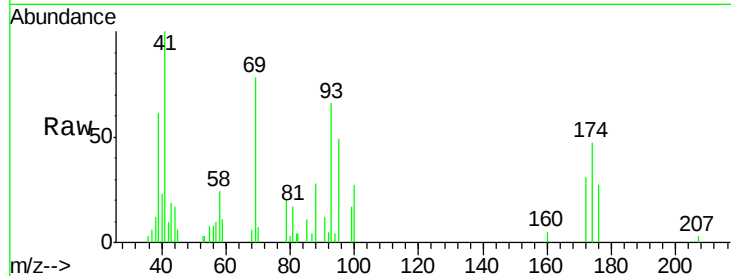
#49
1,4-Dioxane
Concen: 52.215 ug/l
RT: 9.45 min Scan# 1237
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
88	100		
43	42.3	33.4	50.0
58	94.9	64.5	96.7

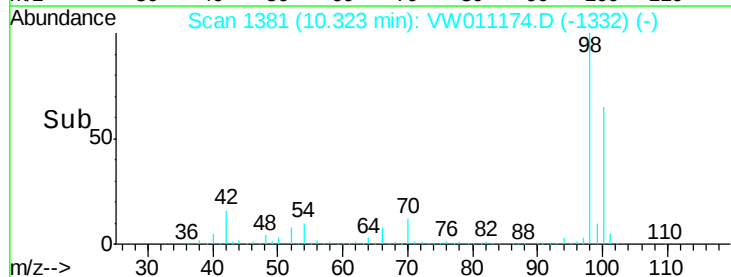
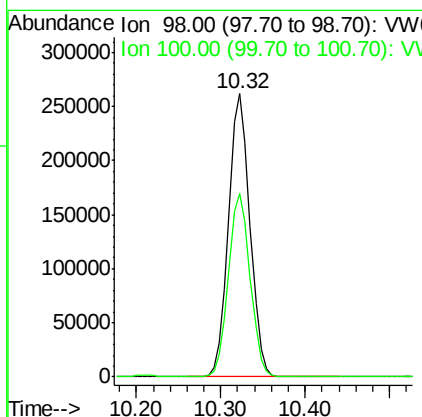
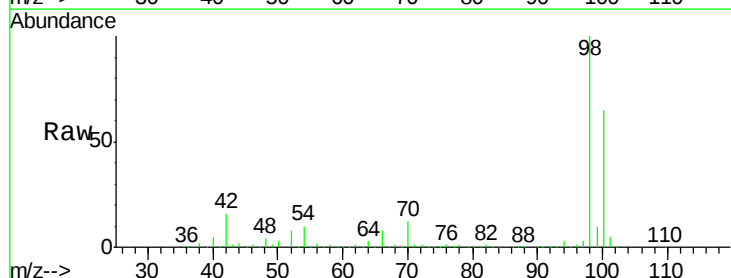
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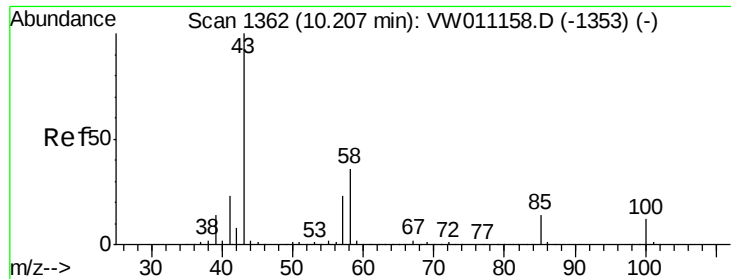
MMDadoda
7/10/2019 10:47:49 AM



#50
Toluene-d8
Concen: 49.247 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.3	52.4	78.6





#51

4-Methyl-2-Pentanone

Concen: 12.046 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

Tot Ion: 43 Resp: 29144

Ion Ratio Lower Upper

43 100

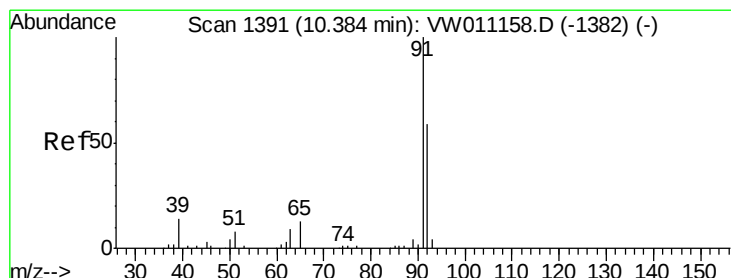
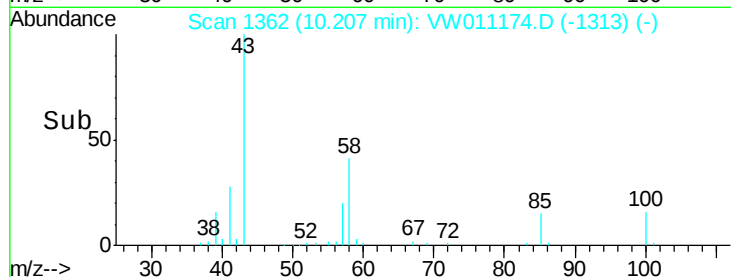
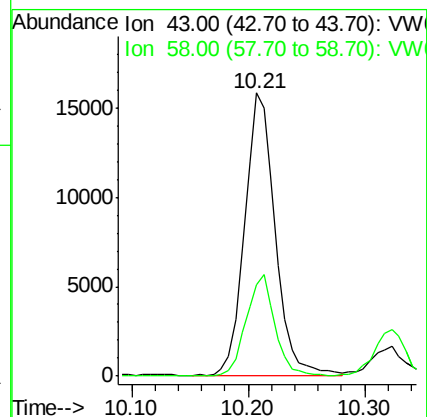
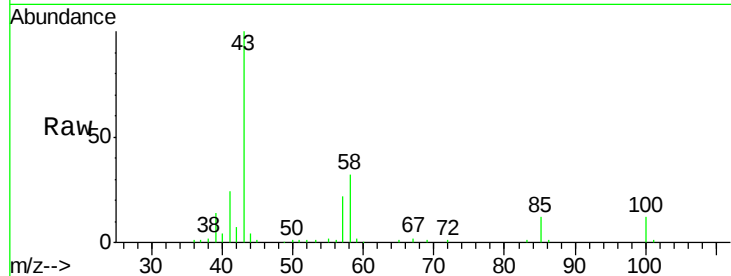
58 33.7 28.2 42.2

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7/10/2019 10:47:49 AM



#52

Toluene

Concen: 2.486 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW011174.D

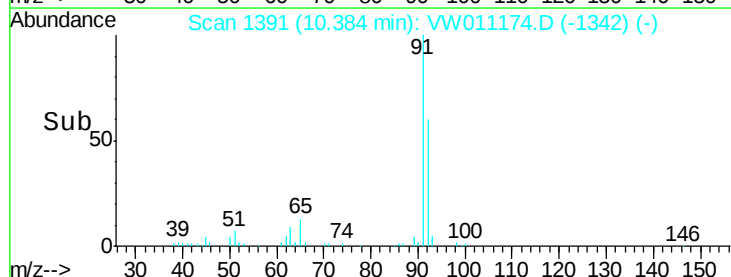
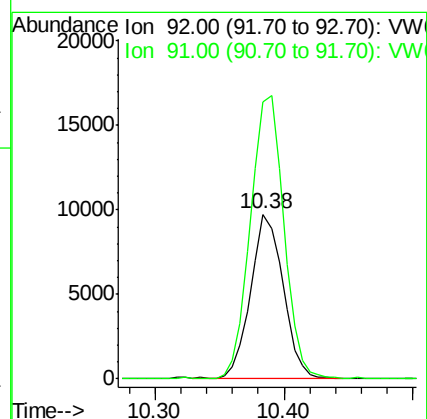
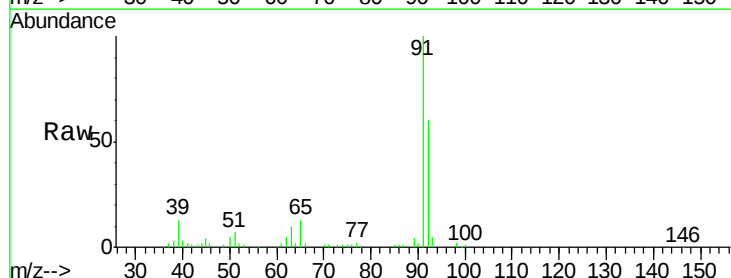
Acq: 09 Jul 2019 12:59

Tgt Ion: 92 Resp: 17014

Ion Ratio Lower Upper

92 100

91 176.1 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 2.198 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

Tot Ion: 75 Resp: 8593

Ion Ratio Lower Upper

75 100

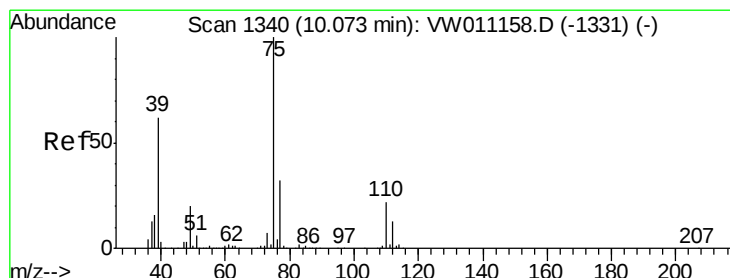
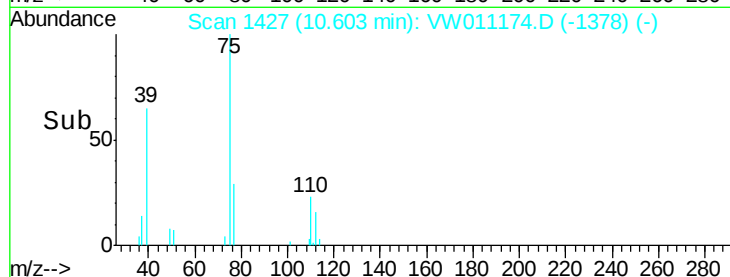
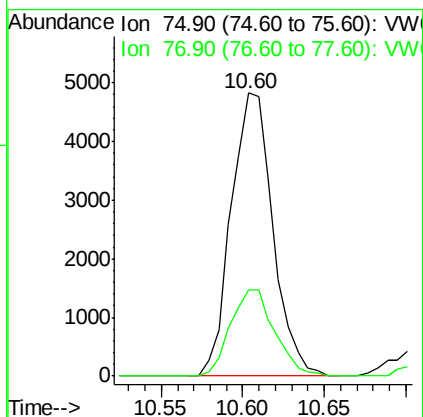
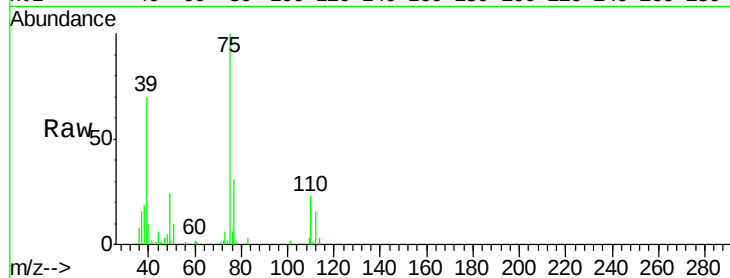
77 30.5 25.4 38.0

Manual Integrations

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7/10/2019 10:47:49 AM



#54

cis-1,3-Dichloropropene

Concen: 2.195 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

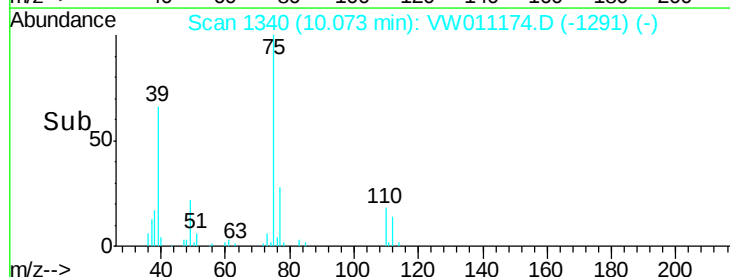
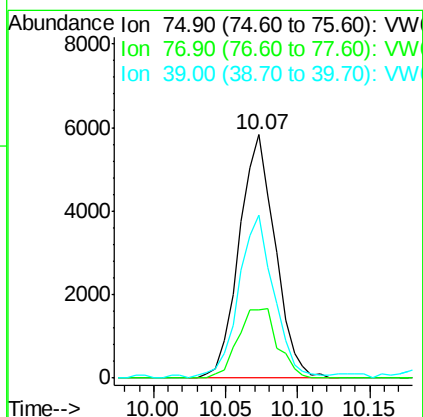
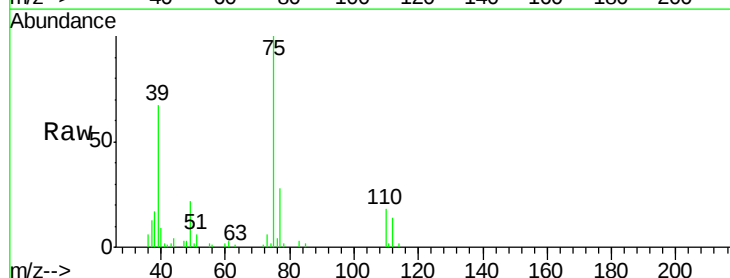
Tgt Ion: 75 Resp: 10101

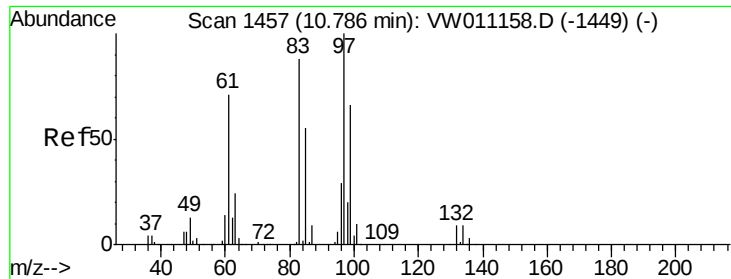
Ion Ratio Lower Upper

75 100

77 28.1 25.7 38.5

39 66.8 49.8 74.8





#55

1,1,2-Trichloroethane

Concen: 2.566 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

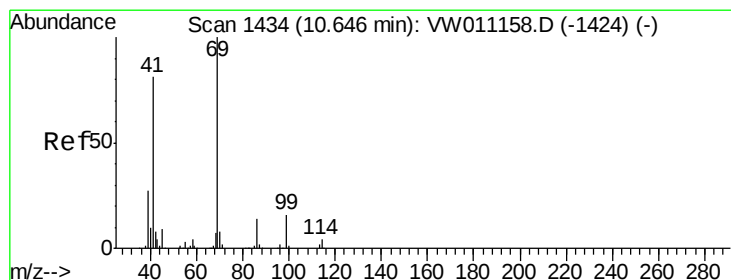
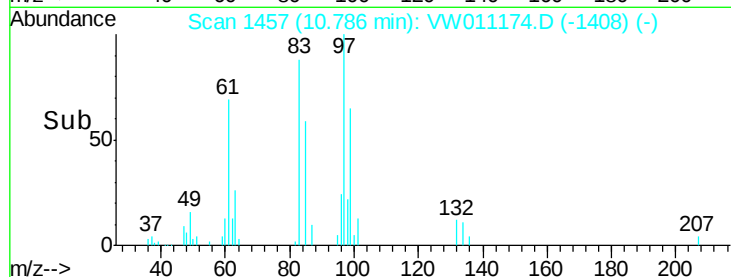
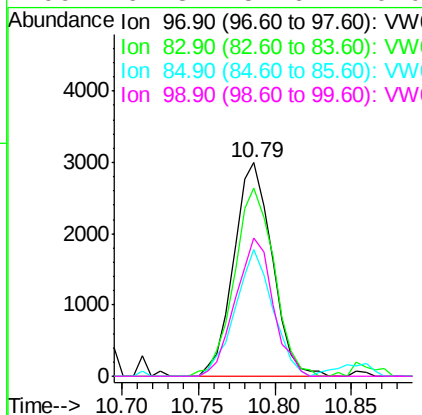
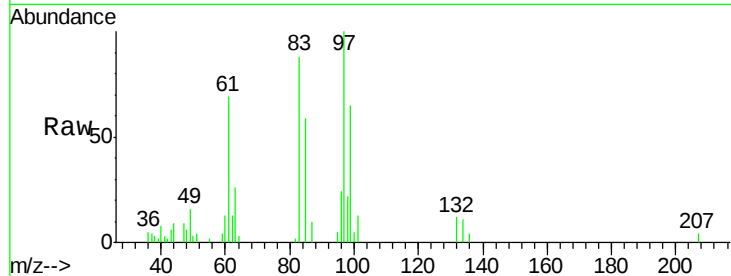
ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

Tot Ion:	97	Resp:	5226
Ion	Ratio	Lower	Upper
97	100		
83	88.0	70.2	105.4
85	59.1	44.2	66.2
99	64.8	52.6	79.0

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#56

Ethyl methacrylate

Concen: 2.268 ug/l

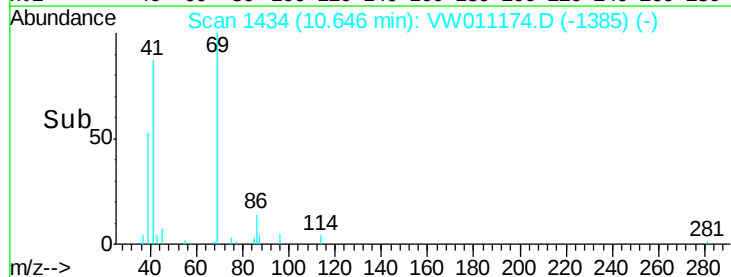
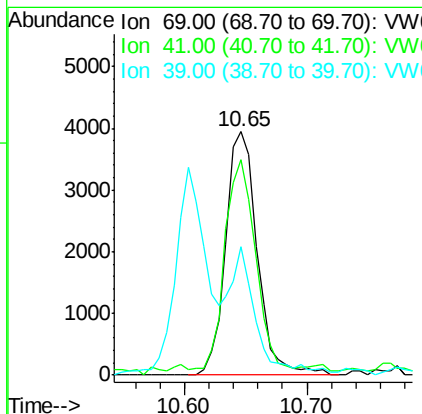
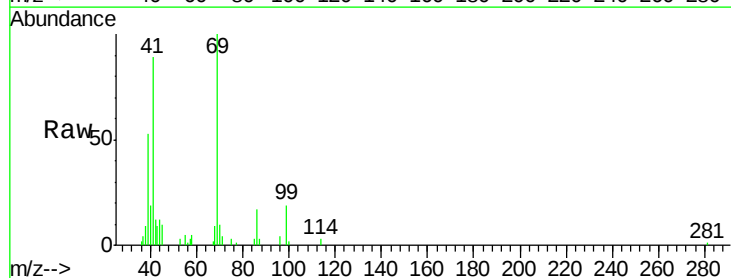
RT: 10.65 min Scan# 1434

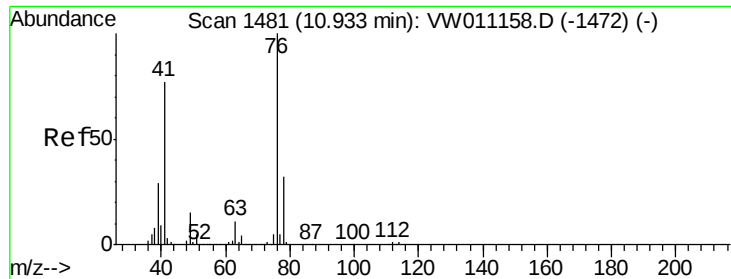
Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Tgt Ion:	69	Resp:	7031
Ion	Ratio	Lower	Upper
69	100		
41	83.0	66.5	99.7
39	46.0	32.5	48.7





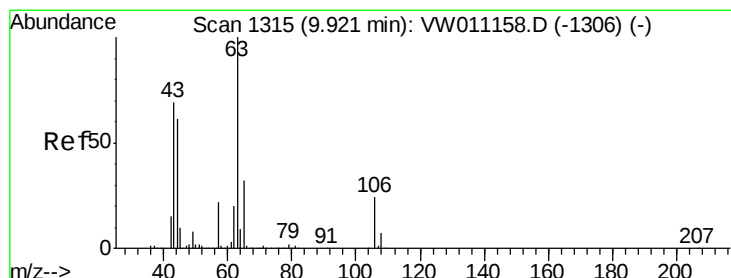
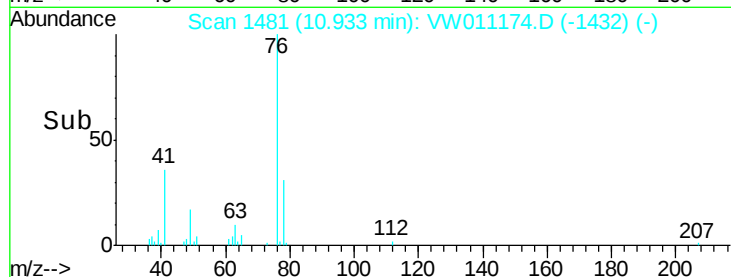
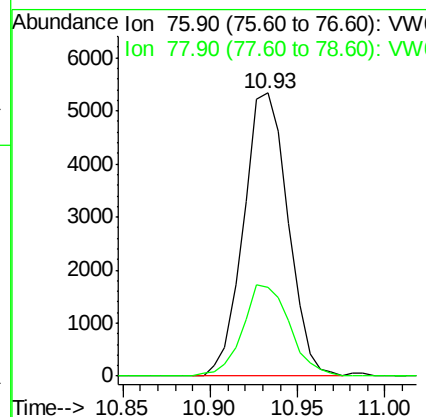
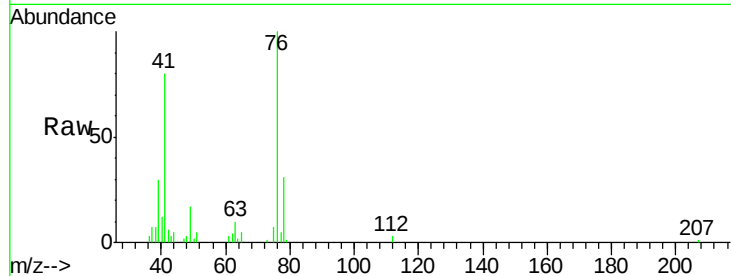
#57
 1,3-Dichloropropane
 Concen: 2.450 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. 0.00 min
 Lab File: VW011174.D
 Acq: 09 Jul 2019 12:59

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT3-2019

Tot Ion: 76 Resp: 9435
 Ion Ratio Lower Upper
 76 100
 78 33.8 26.2 39.2

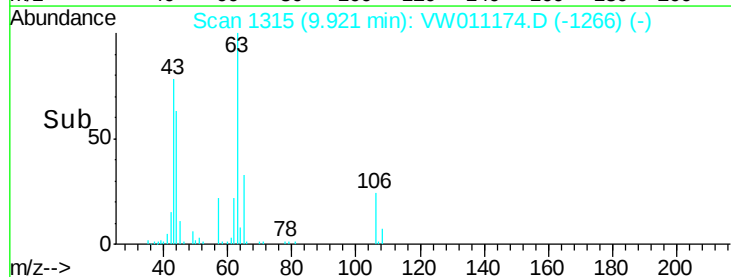
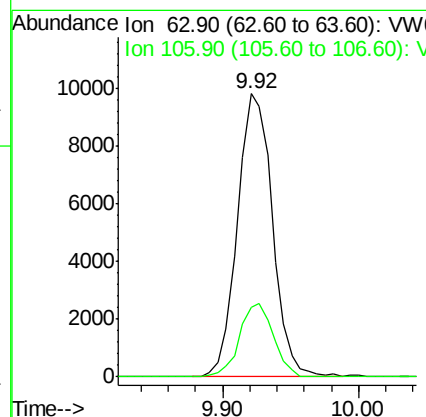
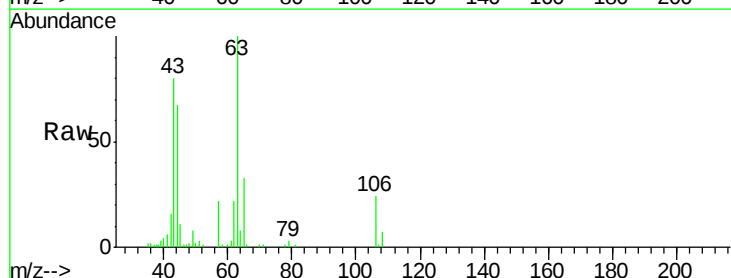
Manual Integrations
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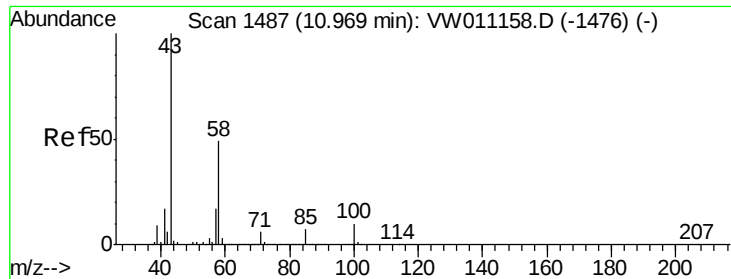
MMDadoda
 7/10/2019 10:47:49 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 12.312 ug/l
 RT: 9.92 min Scan# 1315
 Delta R.T. 0.00 min
 Lab File: VW011174.D
 Acq: 09 Jul 2019 12:59

Tgt Ion: 63 Resp: 17695
 Ion Ratio Lower Upper
 63 100
 106 25.0 19.4 29.0





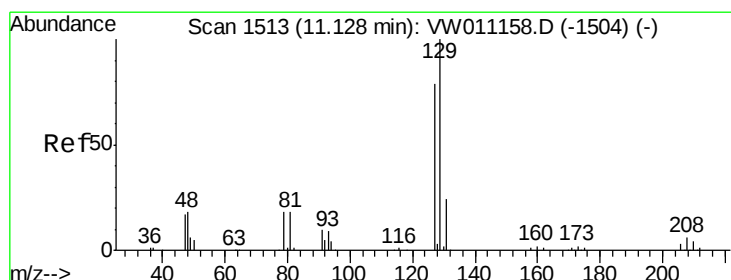
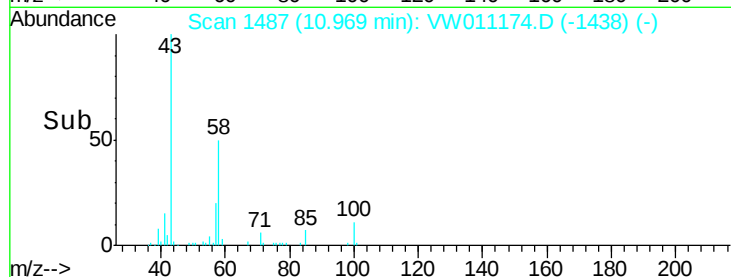
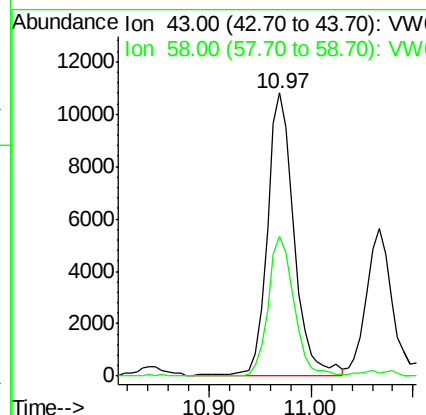
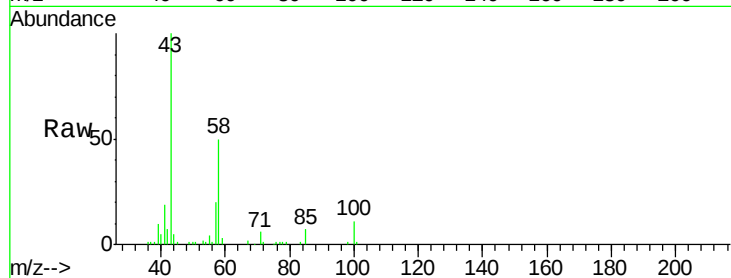
#59
2-Hexanone
Concen: 11.751 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

Tot Ion: 43 Resp: 19716
Ion Ratio Lower Upper
43 100
58 47.8 24.4 73.4

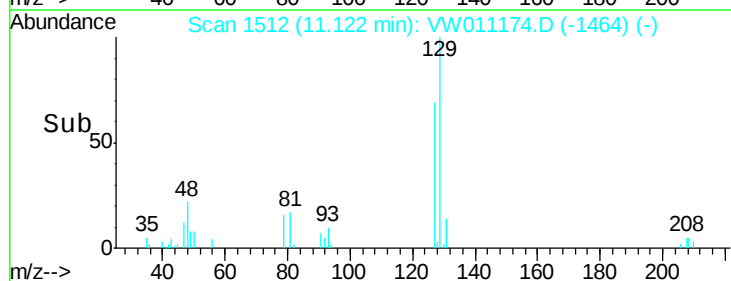
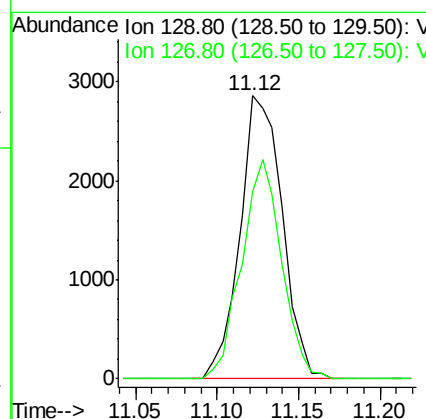
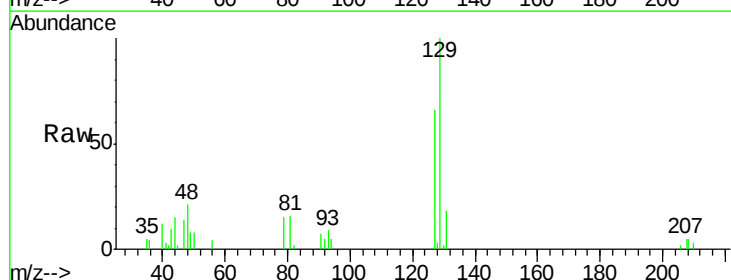
Manual Integrations
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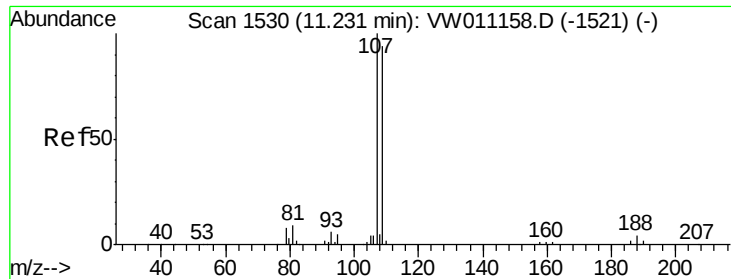
MMDadoda
7/10/2019 10:47:49 AM



#60
Dibromochloromethane
Concen: 2.312 ug/l
RT: 11.12 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Tgt Ion: 129 Resp: 5162
Ion Ratio Lower Upper
129 100
127 73.4 39.1 117.3





#61

1,2-Dibromoethane

Concen: 2.431 ug/l

RT: 11.24 min Scan# 1531

Delta R.T. 0.01 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

Tot Ion: 107 Resp: 4689

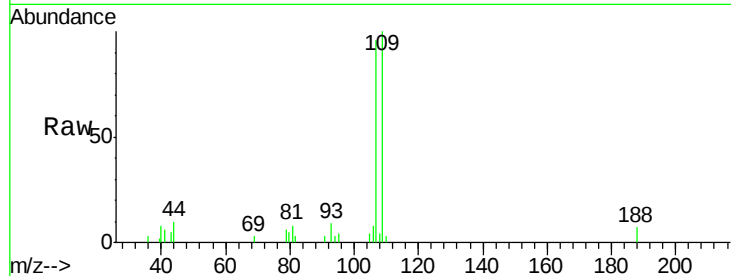
Ion Ratio Lower Upper

107 100

109 98.5 75.2 112.8

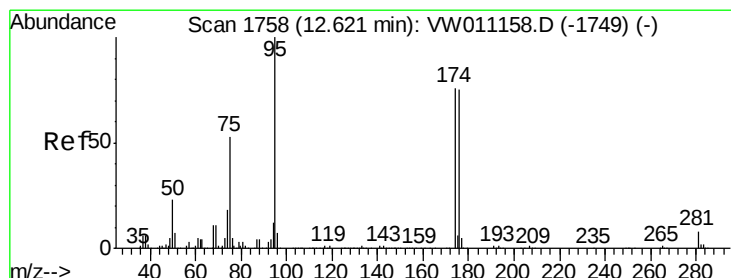
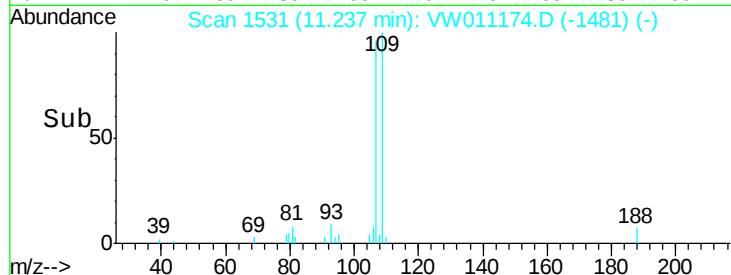
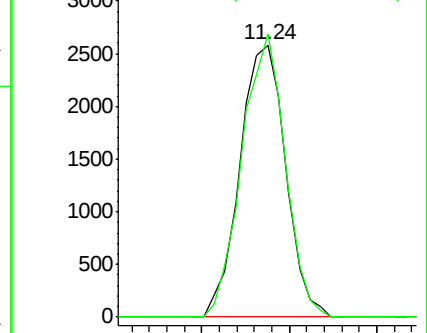
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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 49.019 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.01 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

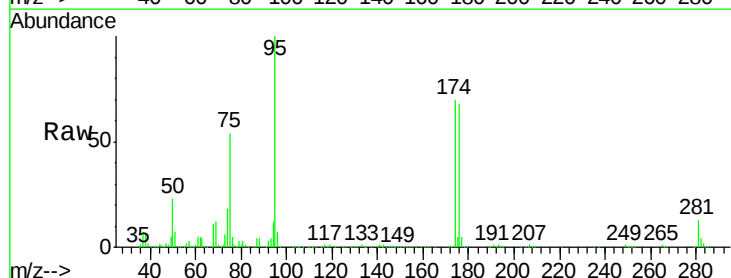
Tgt Ion: 95 Resp: 165973

Ion Ratio Lower Upper

95 100

174 74.1 0.0 147.6

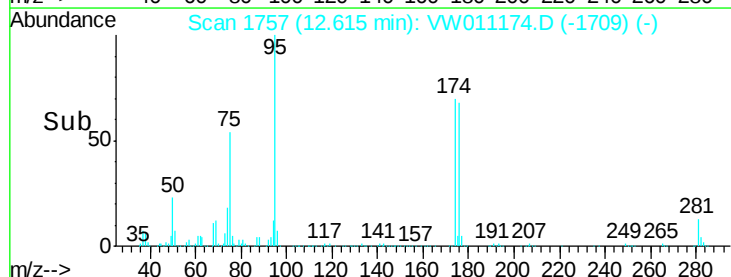
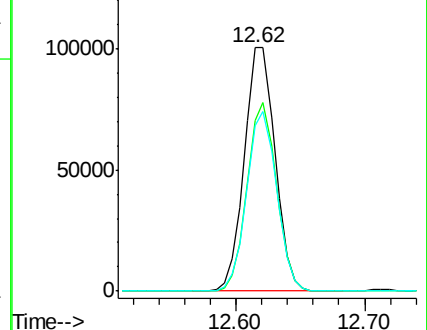
176 72.0 0.0 144.6

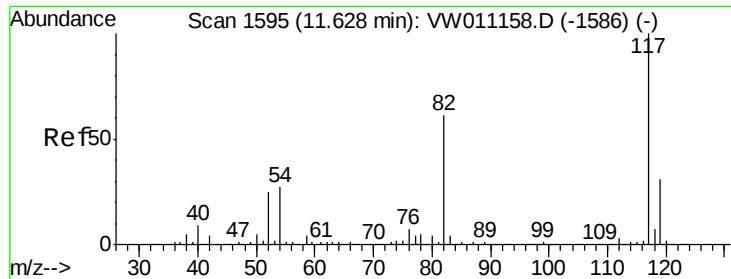


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





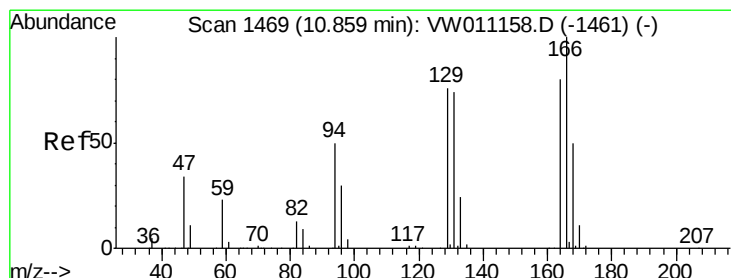
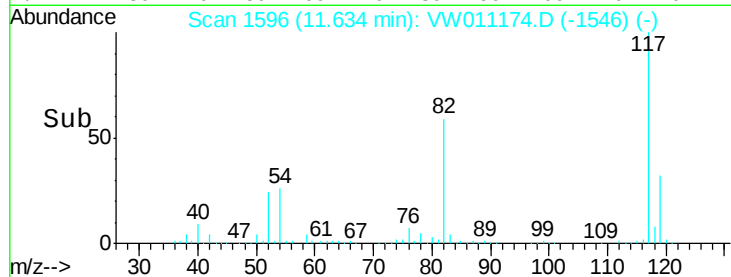
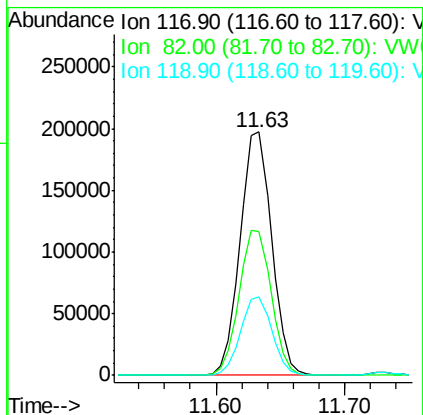
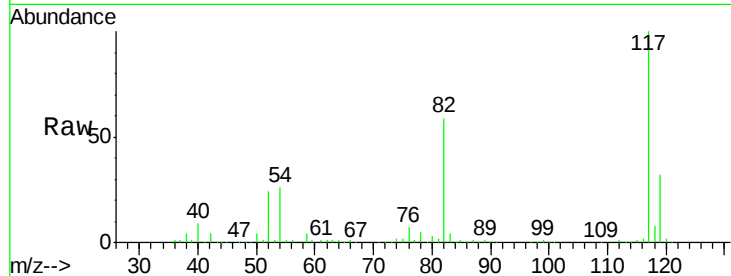
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.01 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

Tot Ion	Ratio	Resp	Lower	Upper
117	100	335415		
82	58.8	48.9	73.3	
119	32.5	25.0	37.6	

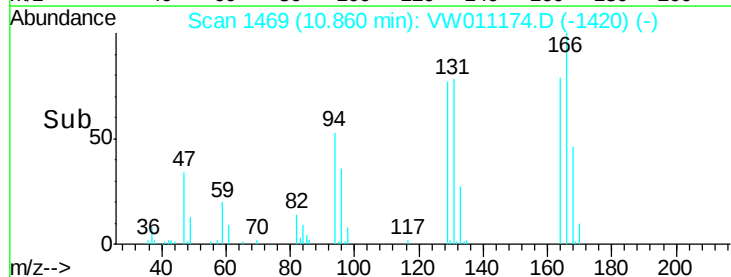
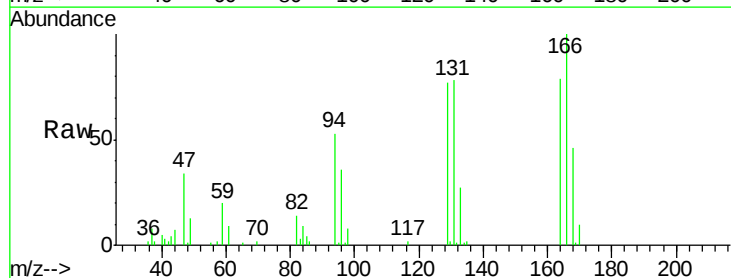
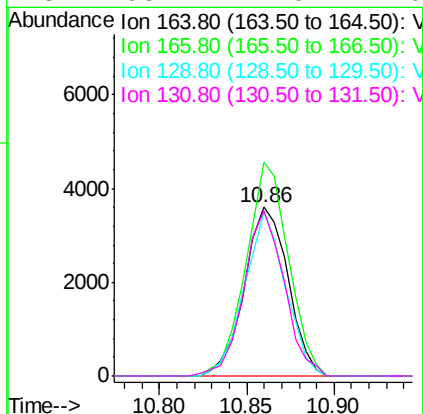
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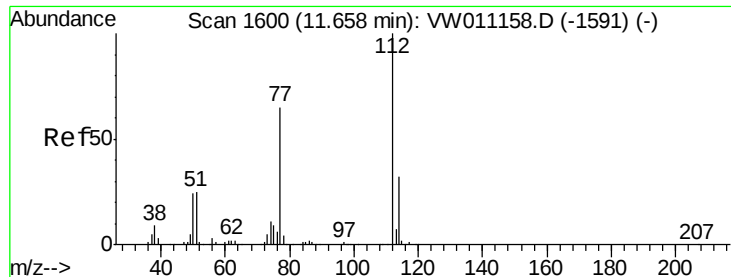
MMDadoda
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#64
Tetrachloroethene
Concen: 2.753 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	6232		
166	126.9	99.7	149.5	
129	97.4	76.2	114.2	
131	98.4	74.0	111.0	





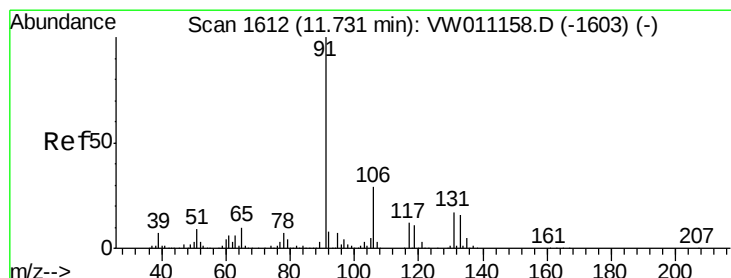
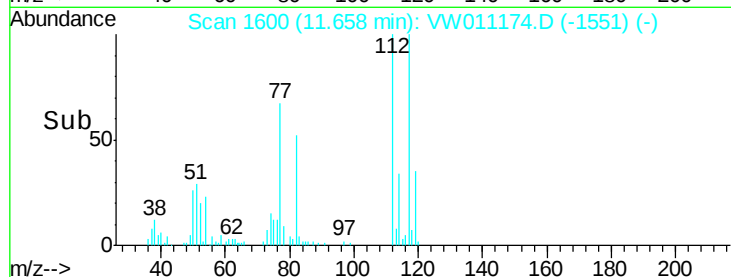
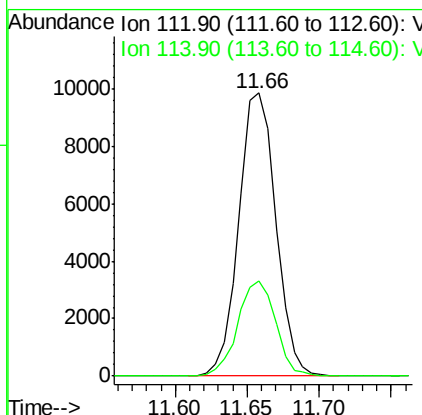
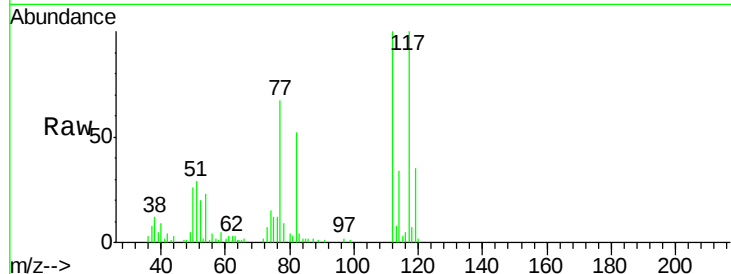
#65
Chlorobenzene
Concen: 2.581 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

Tot Ion:112 Resp: 17599
Ion Ratio Lower Upper
112 100
114 33.5 25.5 38.3

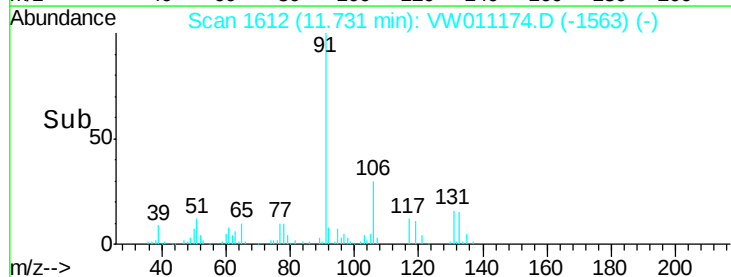
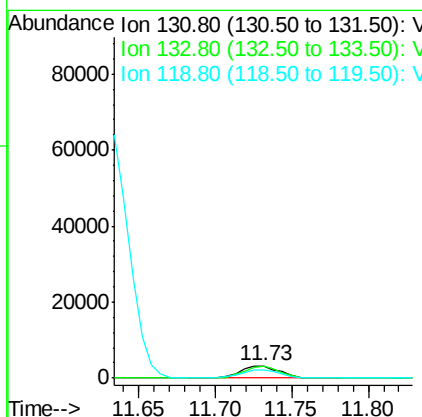
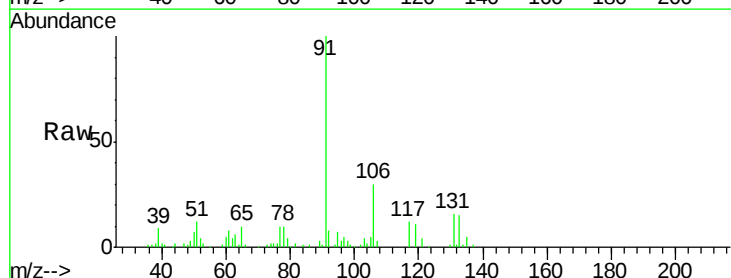
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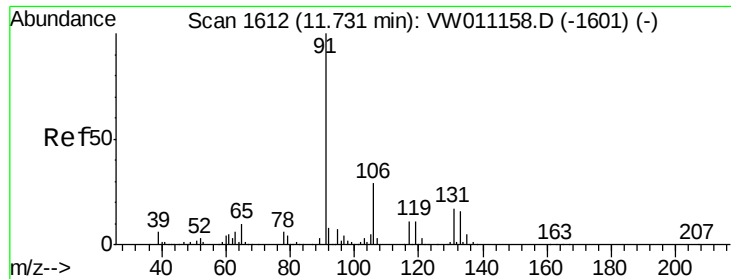
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#66
1,1,1,2-Tetrachloroethane
Concen: 2.385 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Tgt Ion:131 Resp: 5727
Ion Ratio Lower Upper
131 100
133 92.1 47.9 143.8
119 68.4 33.1 99.2





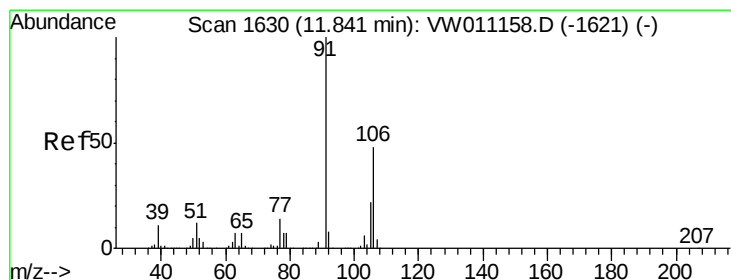
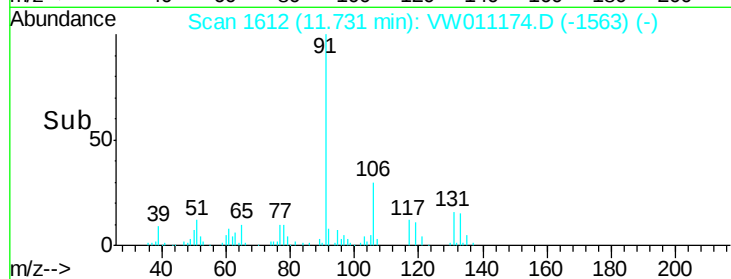
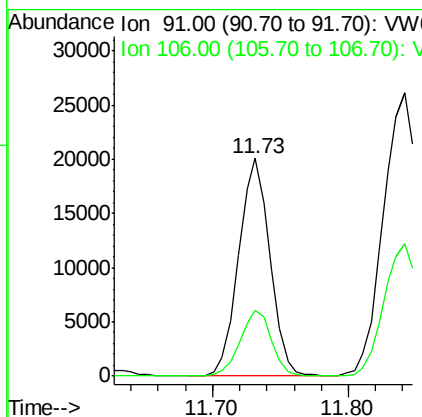
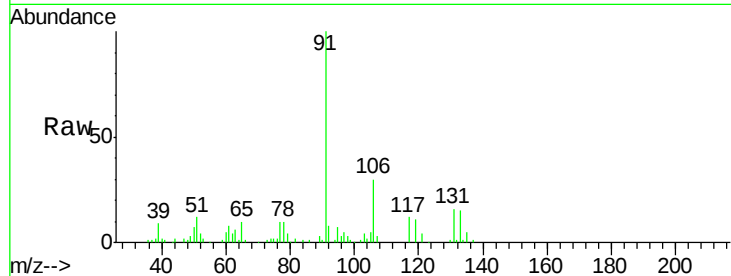
#67
Ethyl Benzene
Concen: 2.466 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

Tot Ion: 91 Resp: 32189
Ion Ratio Lower Upper
91 100
106 30.3 23.5 35.3

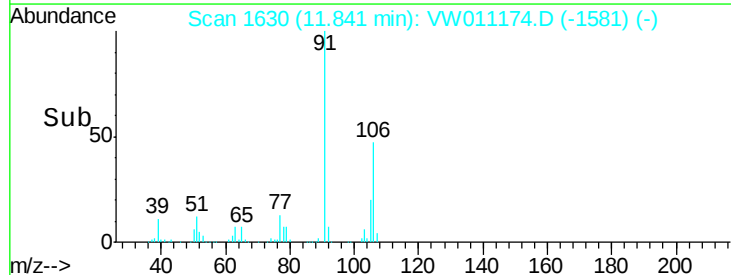
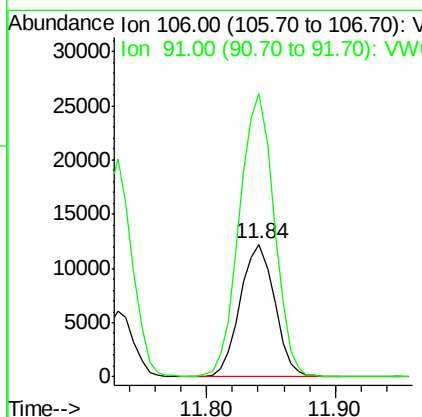
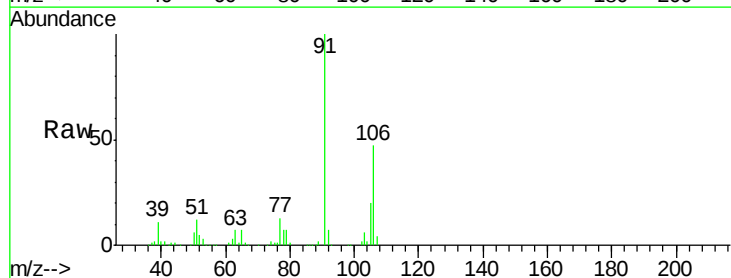
Manual Integrations
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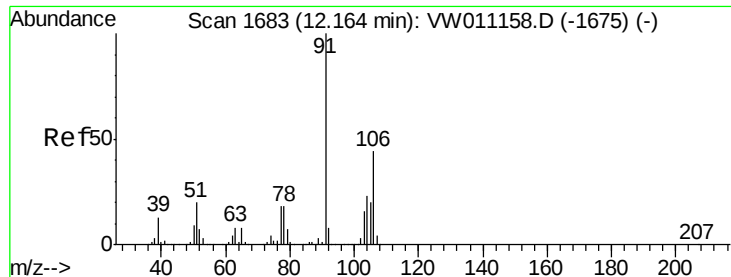
MMDadoda
7/10/2019 10:47:49 AM



#68
m/p-Xylenes
Concen: 4.814 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Tgt Ion: 106 Resp: 22740
Ion Ratio Lower Upper
106 100
91 213.3 167.7 251.5





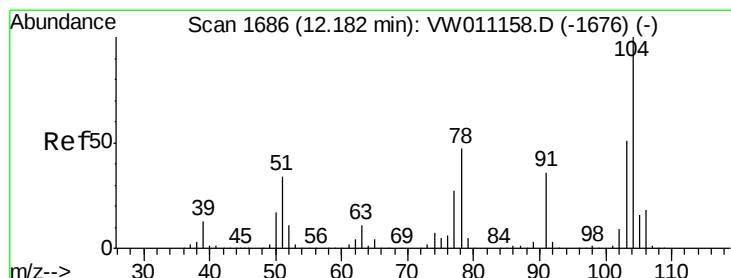
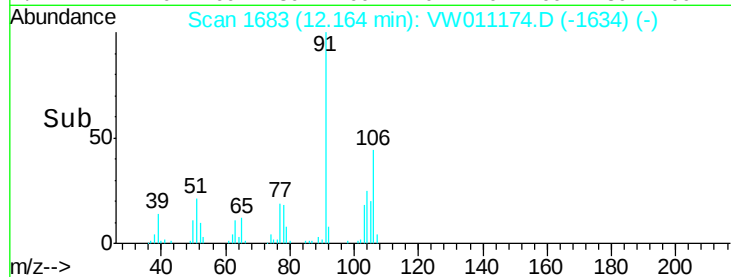
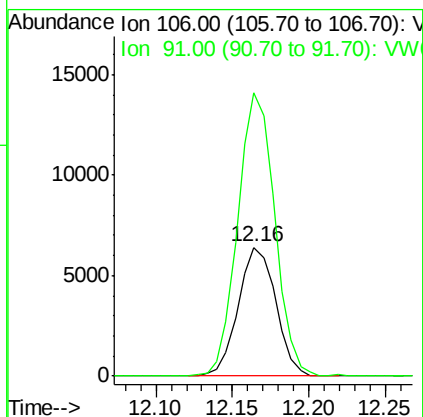
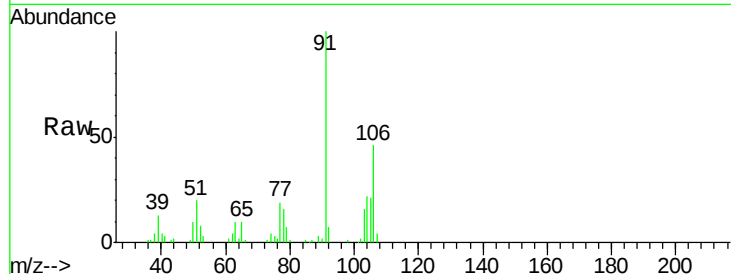
#69
o-Xylene
Concen: 2.456 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

Tot Ion:106 Resp: 10933
Ion Ratio Lower Upper
106 100
91 217.0 110.7 332.1

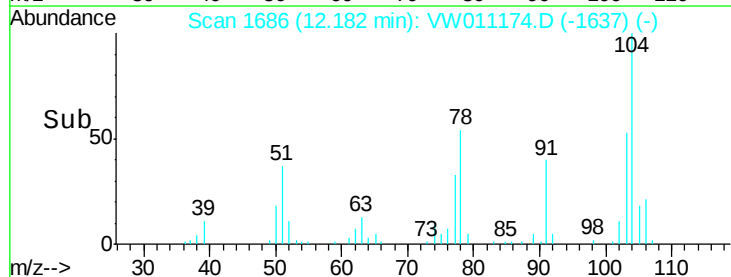
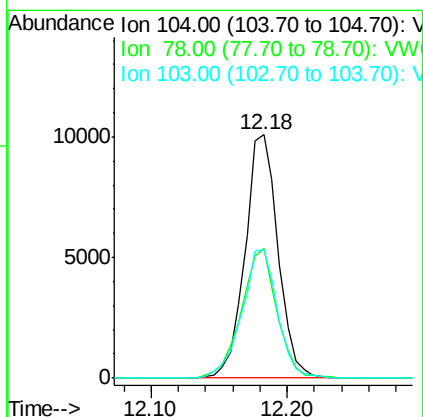
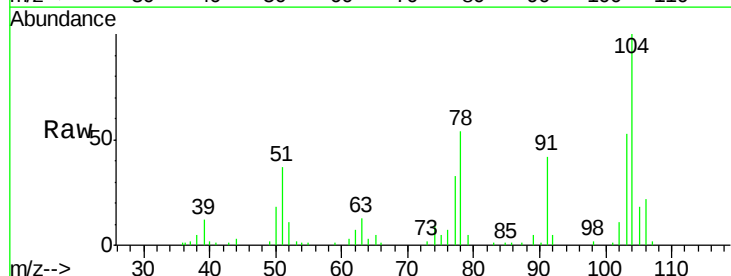
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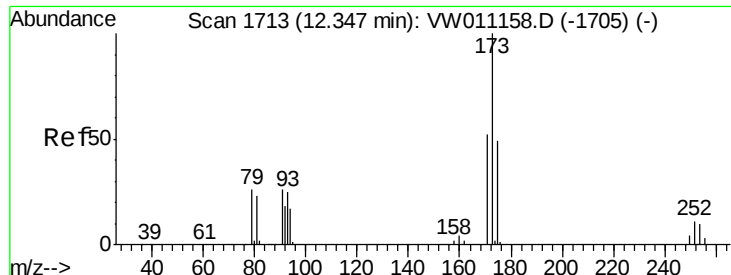
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#70
Styrene
Concen: 2.228 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Tgt Ion:104 Resp: 17121
Ion Ratio Lower Upper
104 100
78 57.4 43.1 64.7
103 56.7 44.1 66.1





#71

Bromoform

Concen: 2.117 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

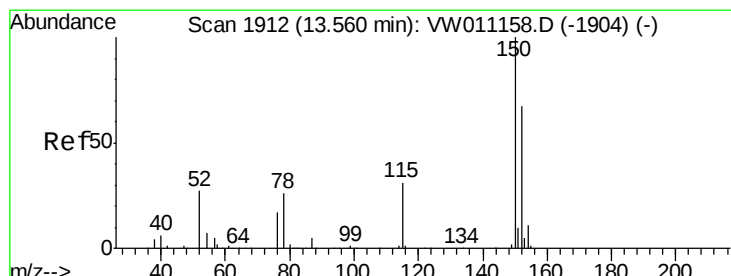
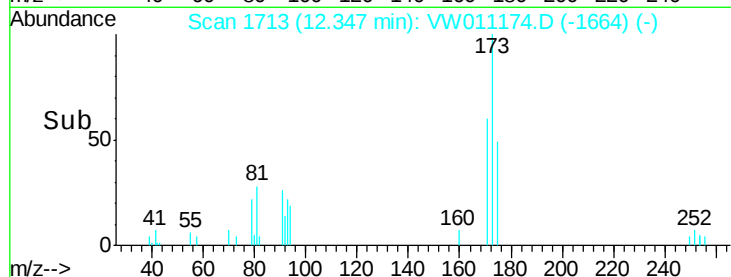
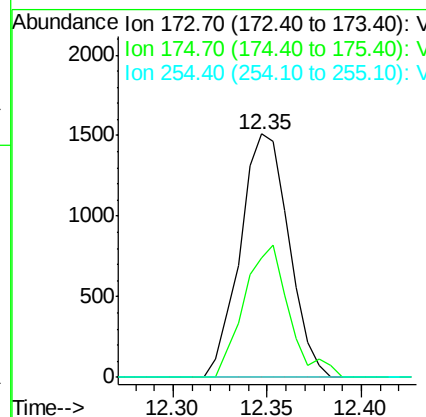
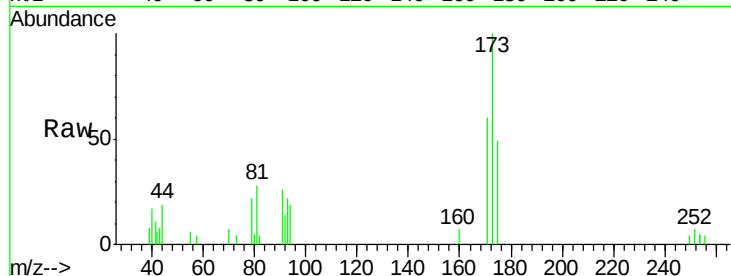
ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
173	100		
175	50.5	24.8	74.3
254	0.0	0.0	0.0

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

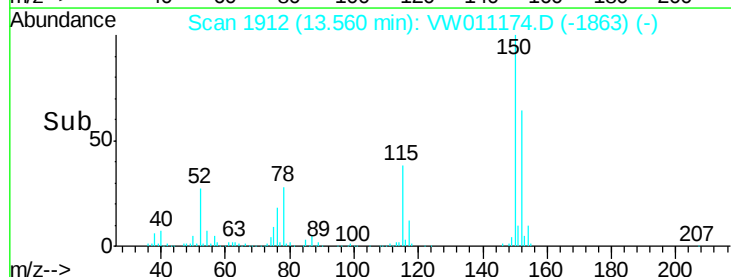
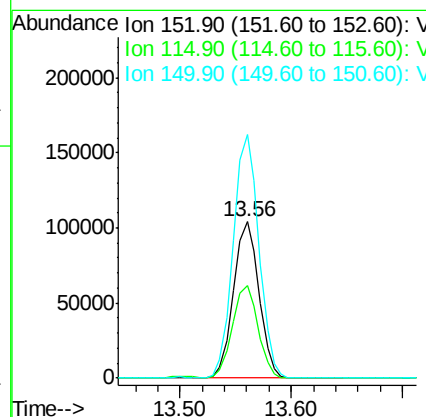
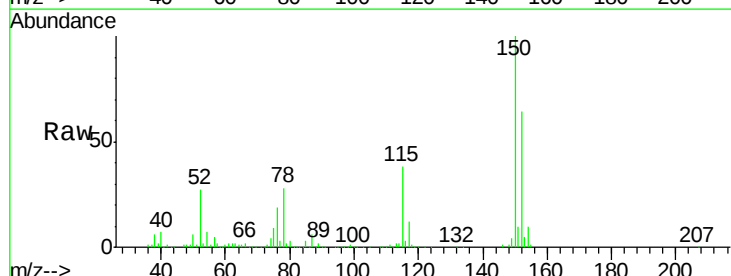
RT: 13.56 min Scan# 1912

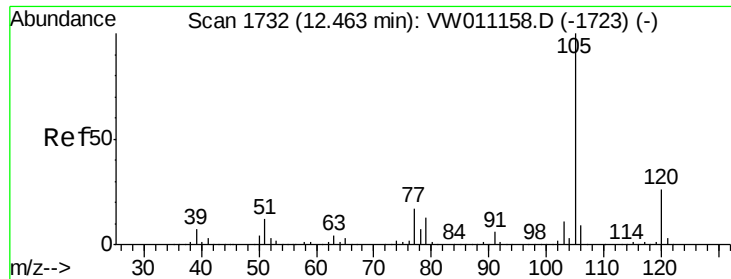
Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.7	30.1	90.3
150	157.0	0.0	346.0





#73

Isopropylbenzene

Concen: 2.413 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

Tot Ion: 105 Resp: 29684

Ion Ratio Lower Upper

105 100

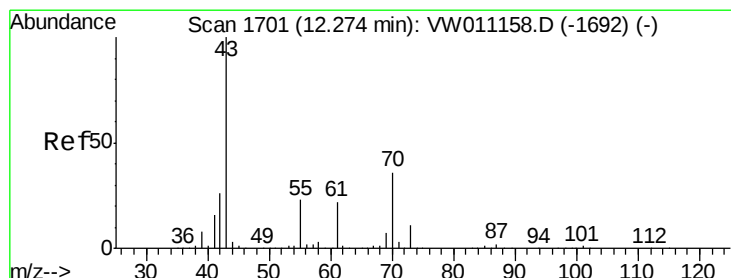
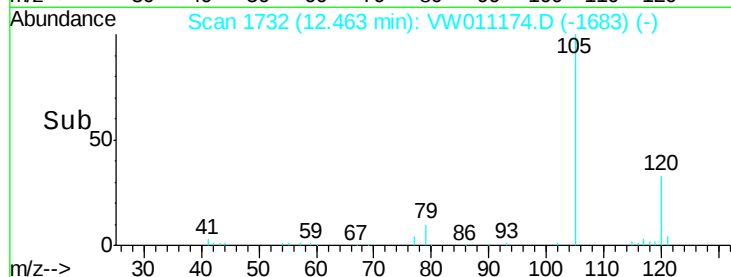
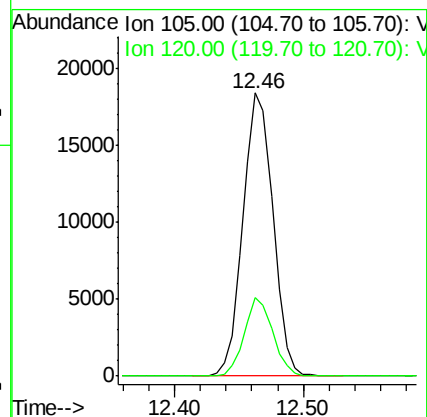
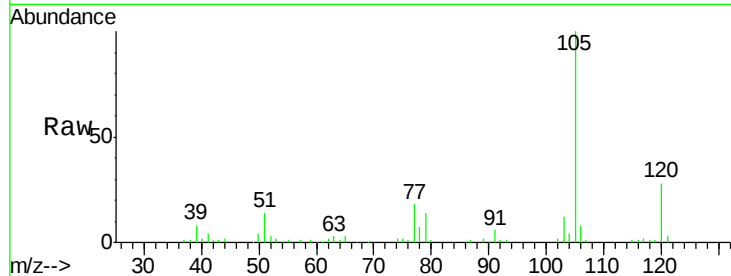
120 26.2 12.8 38.3

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#74

N-ethyl acetate

Concen: 2.106 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Tgt Ion: 43 Resp: 9022

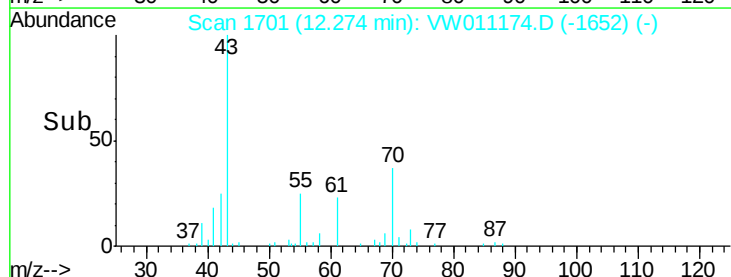
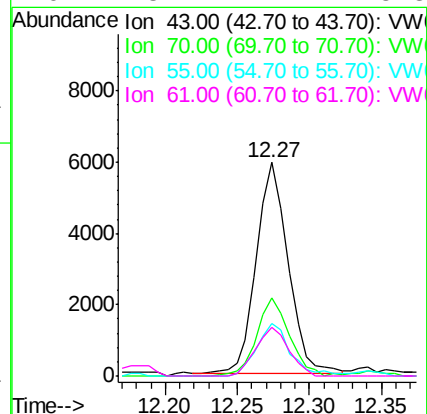
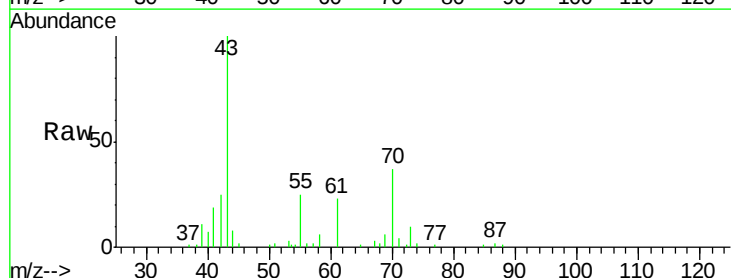
Ion Ratio Lower Upper

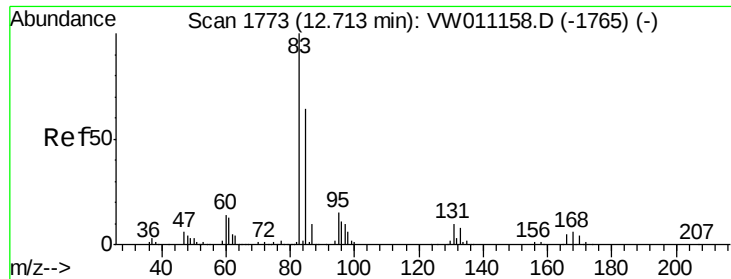
43 100

70 38.2 28.5 42.7

55 26.5 18.1 27.1

61 23.7 17.2 25.8





#75

1,1,2,2-Tetrachloroethane

Concen: 2.529 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

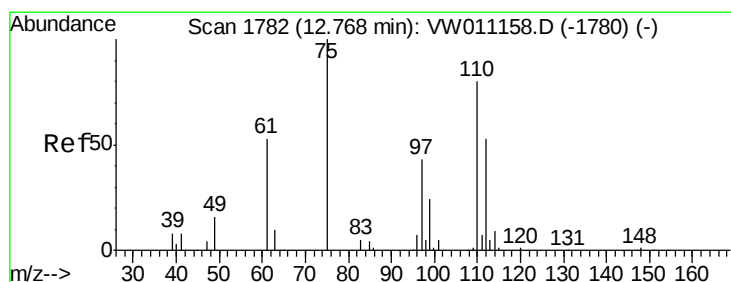
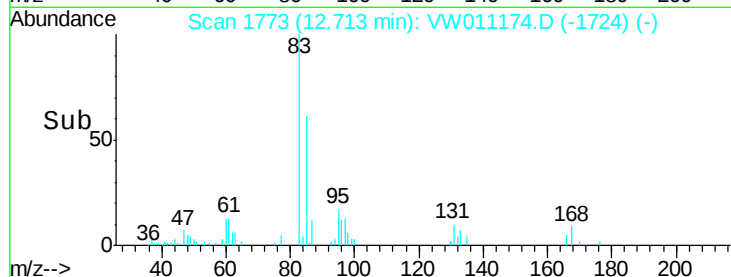
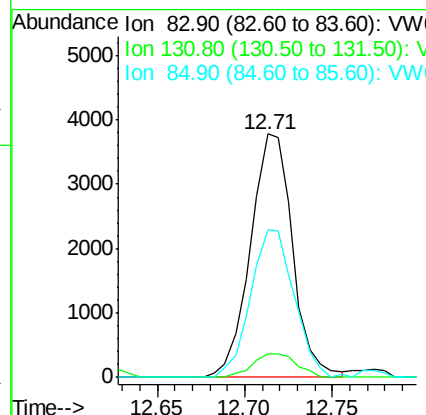
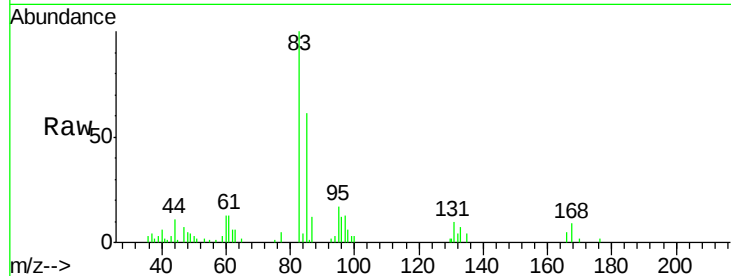
ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

Tot Ion:	83	Resp:	6377
Ion Ratio	Lower	Upper	
83	100		
131	10.1	5.0	15.0
85	62.9	31.6	94.8

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#76

1,2,3-Trichloropropane

Concen: 2.298 ug/l m

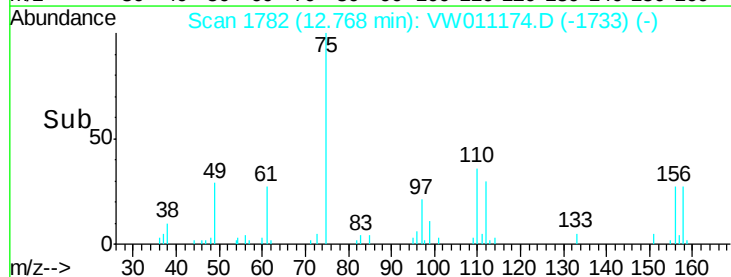
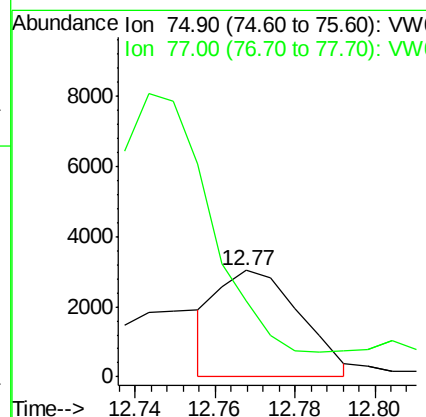
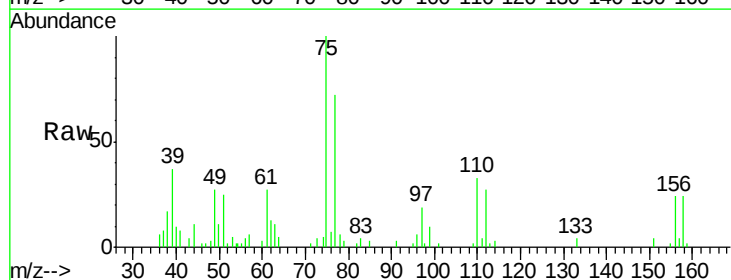
RT: 12.77 min Scan# 1782

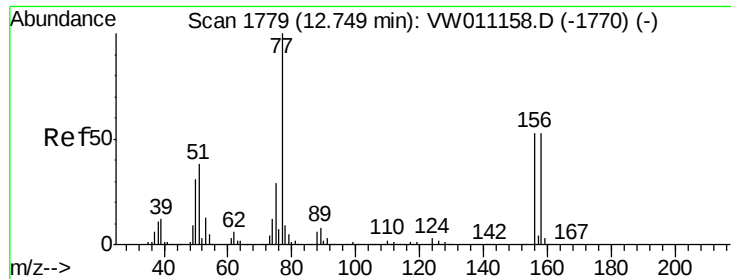
Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Tgt Ion:	75	Resp:	4370
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 2.584 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. -0.01 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

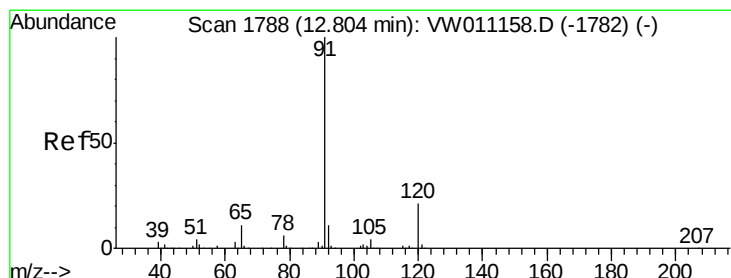
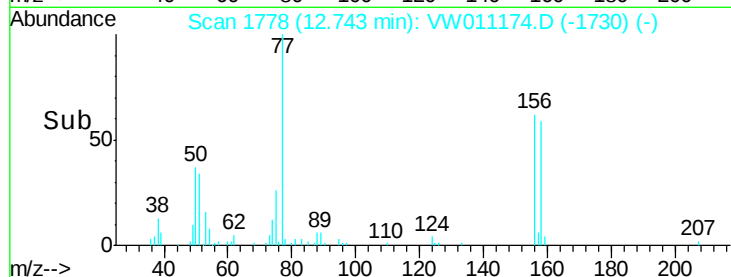
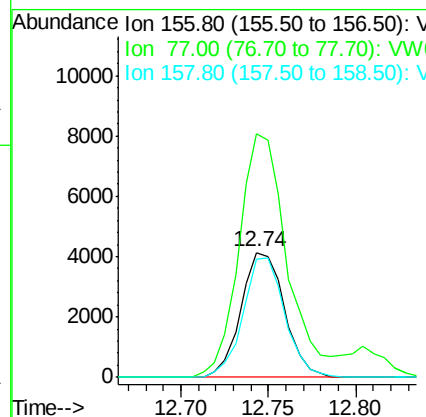
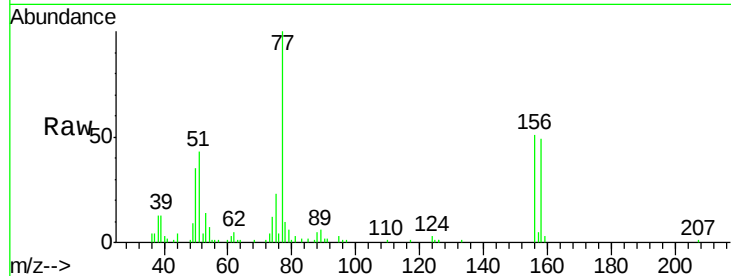
ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	215.4	109.0	327.0	
158	92.4	48.8	146.3	

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#78

n-propylbenzene

Concen: 2.517 ug/l

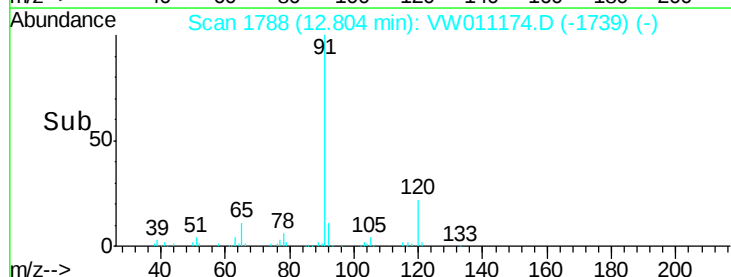
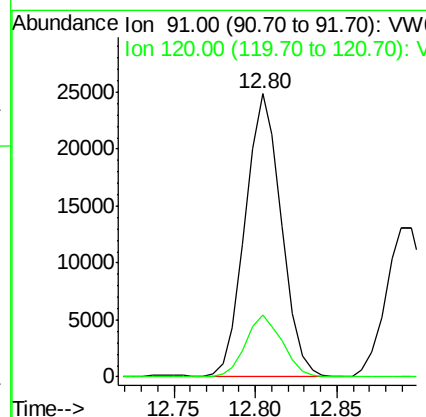
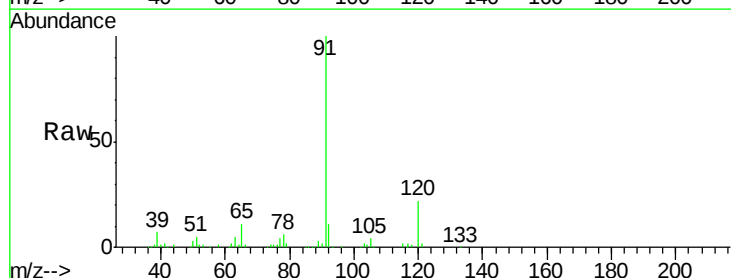
RT: 12.80 min Scan# 1788

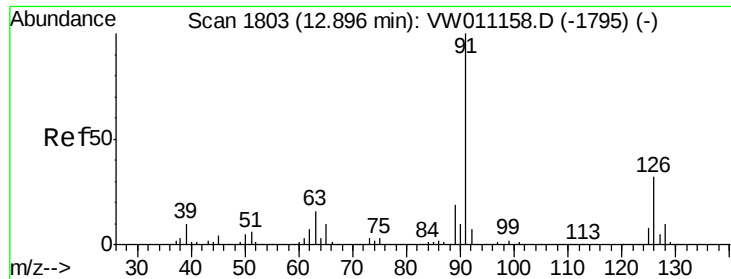
Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	22.2	10.8	32.3	





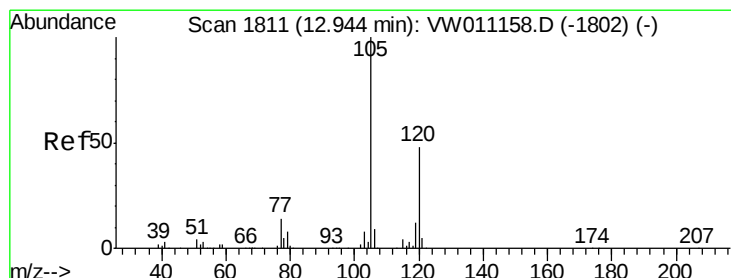
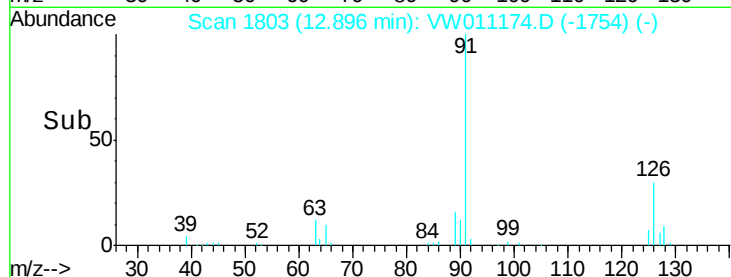
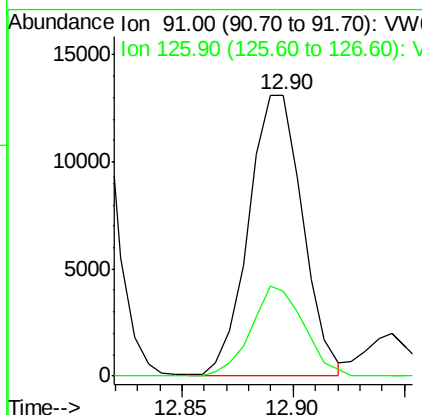
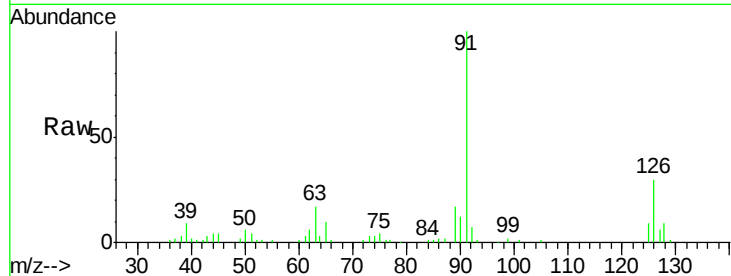
#79
 2-Chlorotoluene
 Concen: 2.528 ug/l
 RT: 12.90 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VW011174.D
 Acq: 09 Jul 2019 12:59

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT3-2019

Tot Ion: 91 Resp: 22048
 Ion Ratio Lower Upper
 91 100
 126 31.3 15.8 47.3

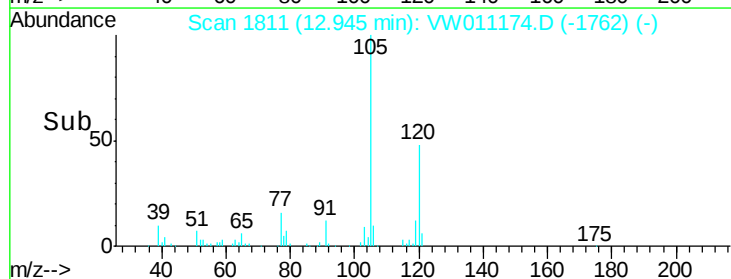
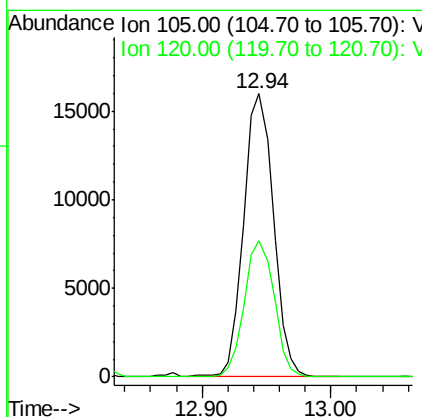
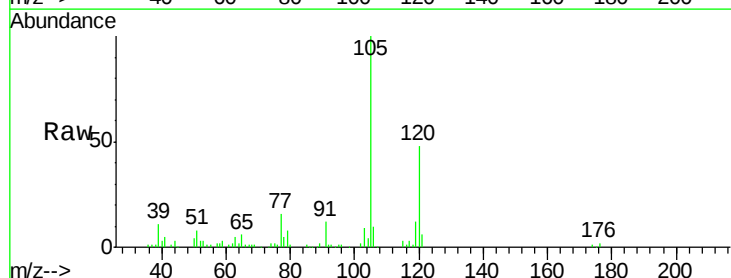
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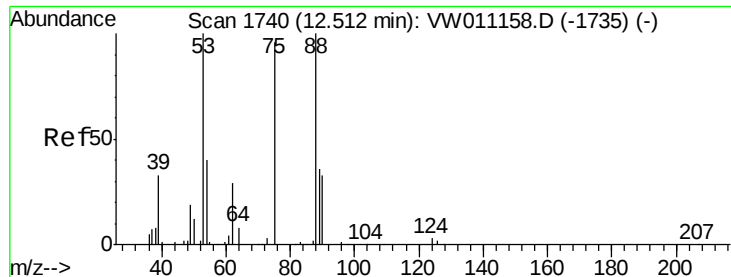
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 7/10/2019 10:47:49 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 2.441 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. 0.00 min
 Lab File: VW011174.D
 Acq: 09 Jul 2019 12:59

Tgt Ion: 105 Resp: 25515
 Ion Ratio Lower Upper
 105 100
 120 48.2 24.1 72.2





#81

trans-1,4-Dichloro-2-butene

Concen: 1.839 ug/l m

RT: 12.51 min Scan# 1739

Delta R.T. -0.01 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

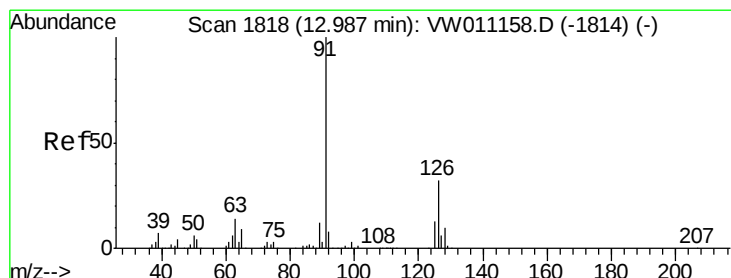
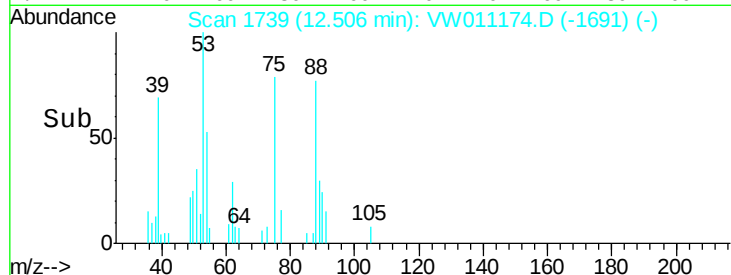
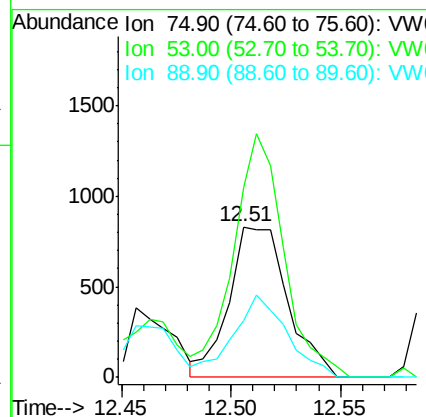
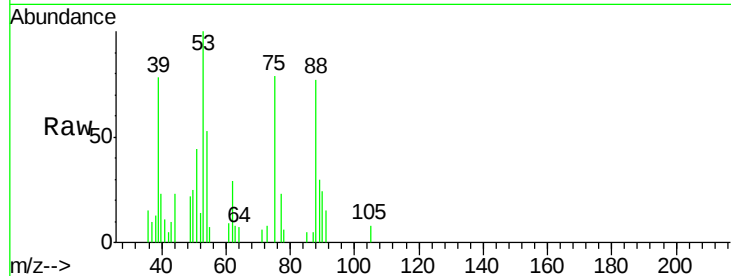
ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

Tot Ion:	75	Resp:	1546
Ion Ratio	Lower	Upper	
75	100		
53	5.7	89.8	134.6#
89	6.8	34.3	51.5#

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#82

4-Chlorotoluene

Concen: 2.579 ug/l

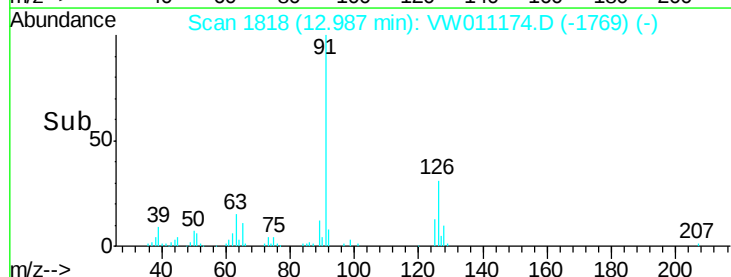
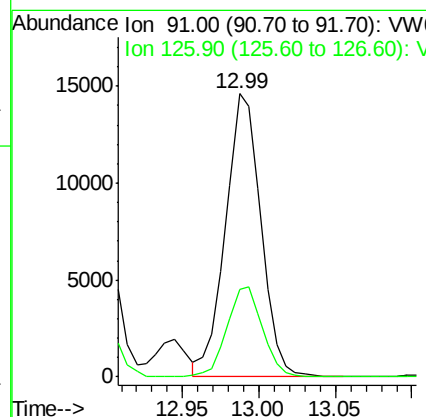
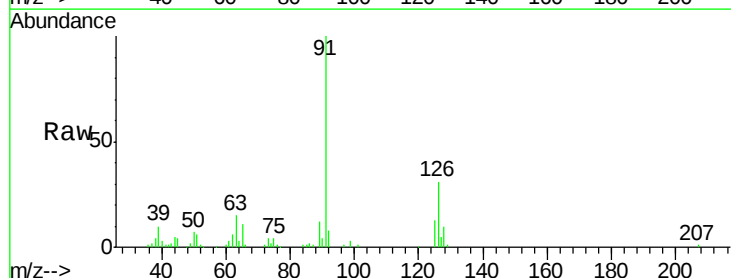
RT: 12.99 min Scan# 1818

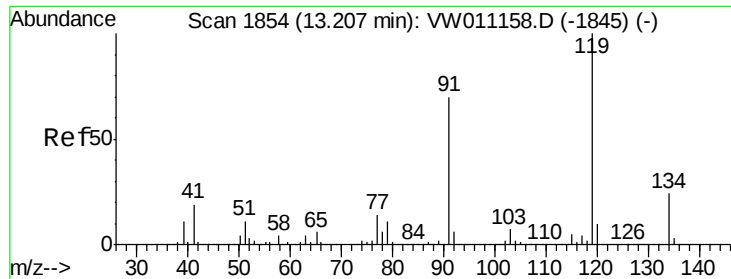
Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Tgt Ion:	91	Resp:	23427
Ion Ratio	Lower	Upper	
91	100		
126	31.8	15.7	47.1





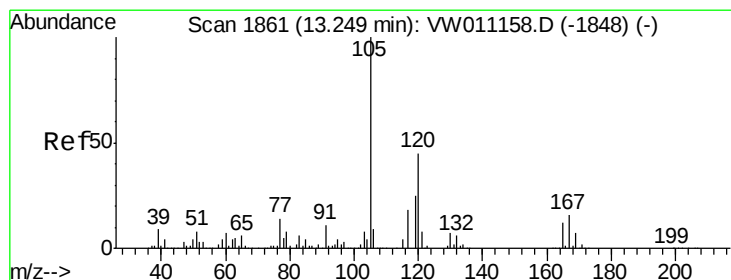
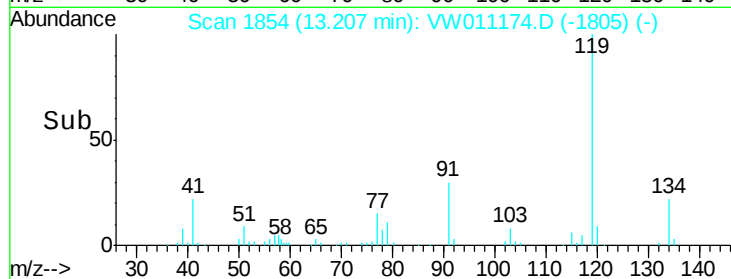
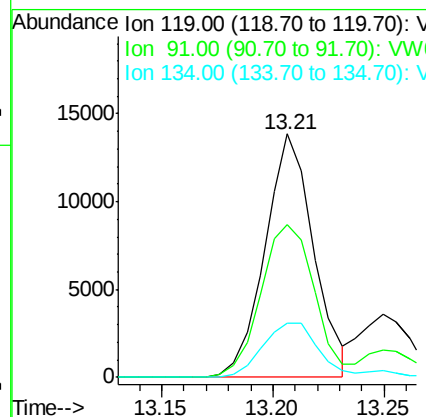
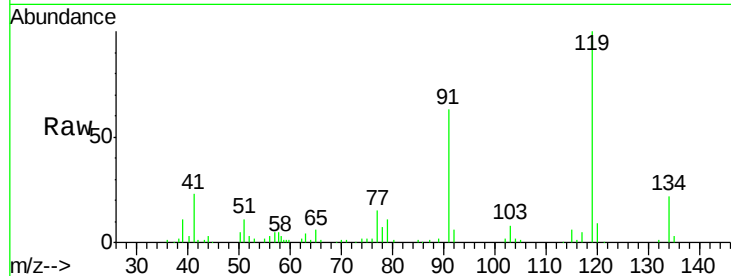
#83
tert-Butylbenzene
Concen: 2.405 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
119	100		
91	70.0	35.4	106.3
134	25.4	13.4	40.2

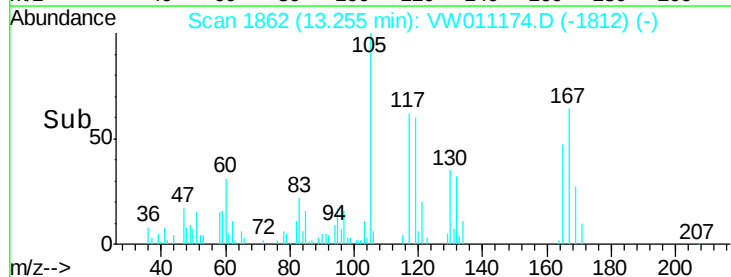
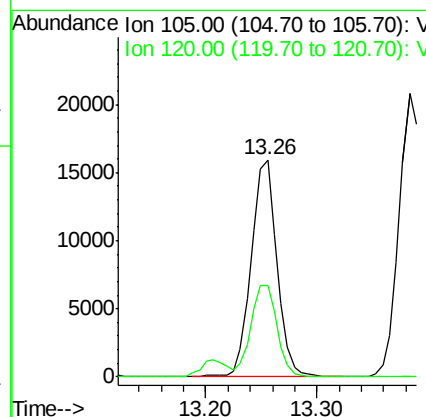
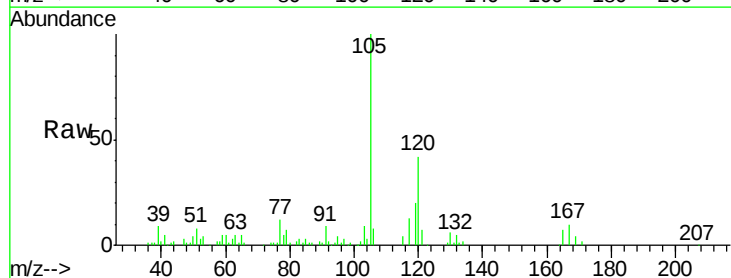
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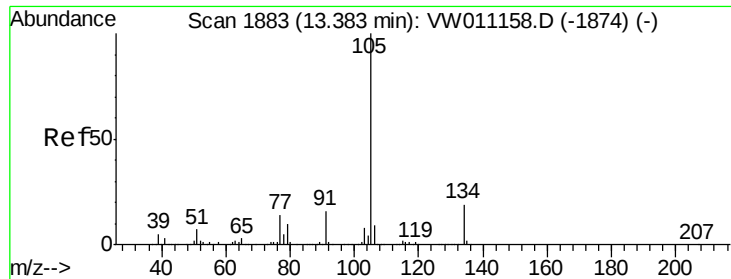
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 2.449 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. 0.01 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.0	22.3	66.9





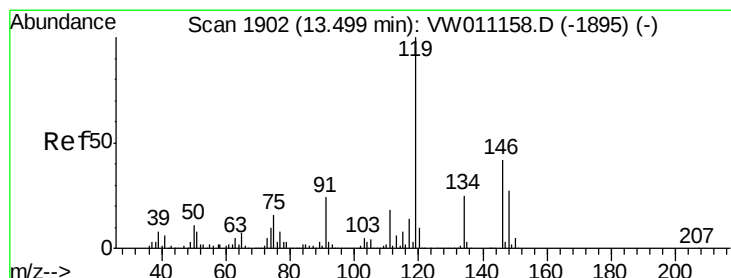
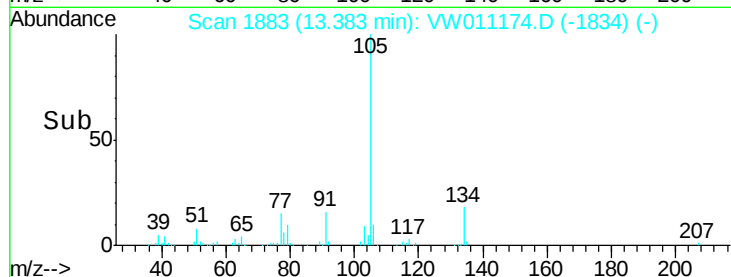
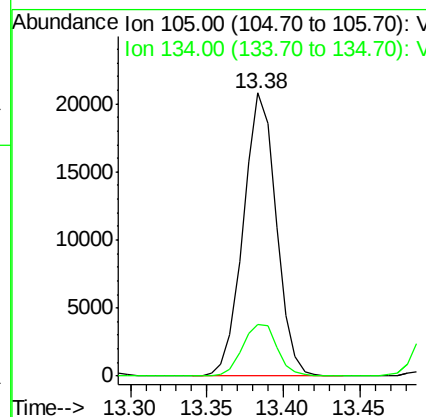
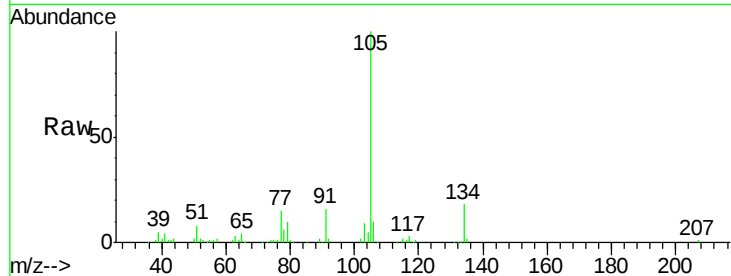
#85
 sec-Butylbenzene
 Concen: 2.475 ug/l
 RT: 13.38 min Scan# 1883
 Delta R.T. 0.00 min
 Lab File: VW011174.D
 Acq: 09 Jul 2019 12:59

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.7	28.9

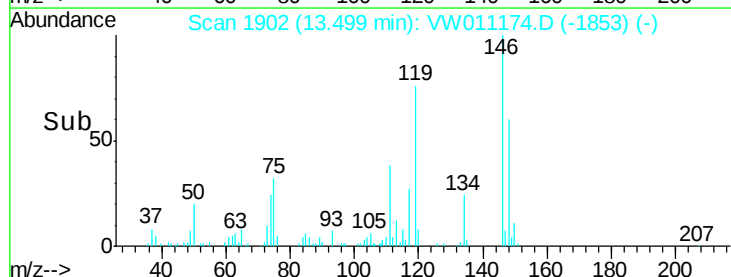
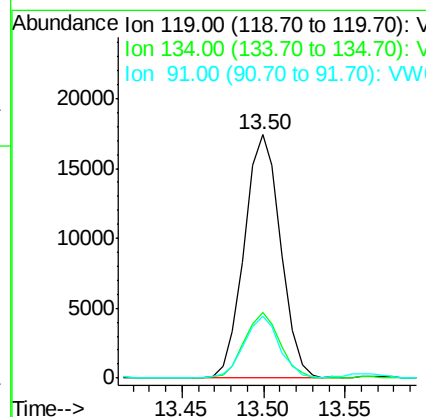
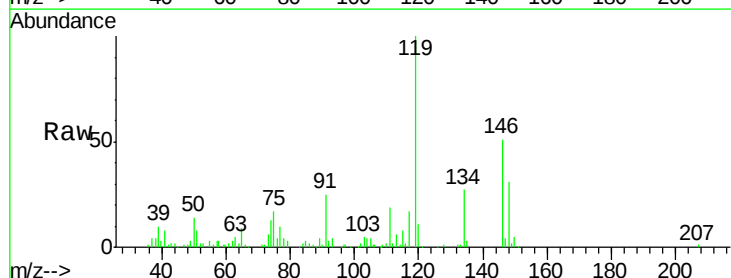
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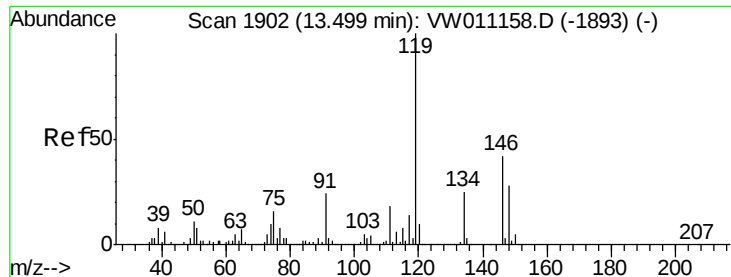
MMDadoda
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#86
 p-Isopropyltoluene
 Concen: 2.401 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW011174.D
 Acq: 09 Jul 2019 12:59

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.5	12.9	38.6
91	24.8	12.3	36.8





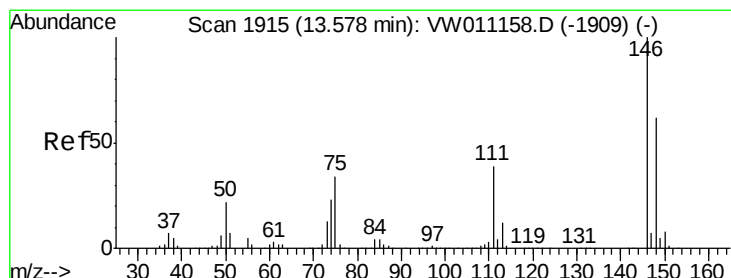
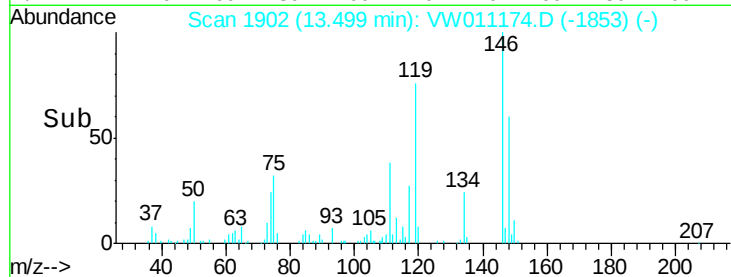
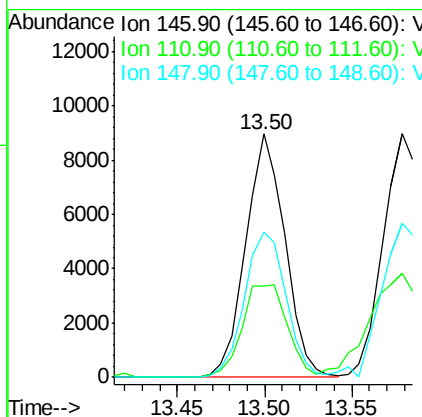
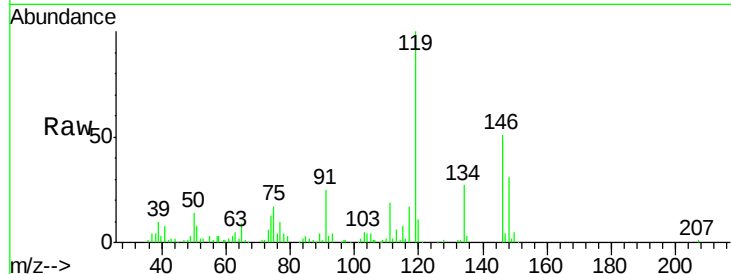
#87
 1,3-Dichlorobenzene
 Concen: 2.630 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW011174.D
 Acq: 09 Jul 2019 12:59

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.8	21.1	63.1
148	63.5	32.6	97.7

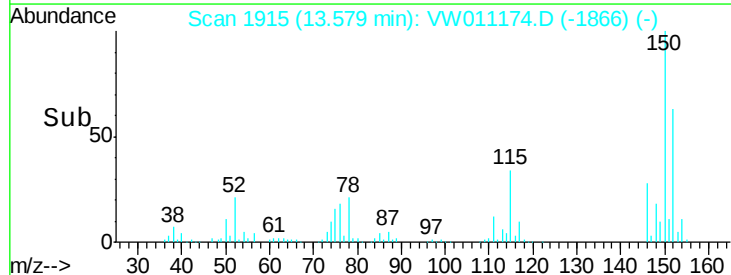
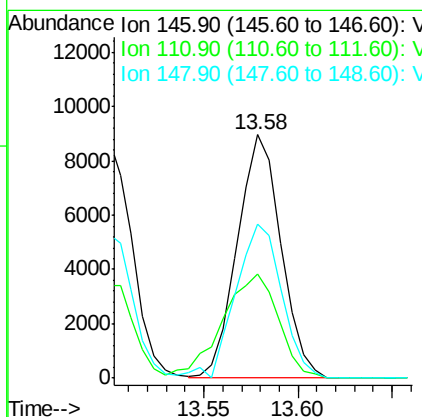
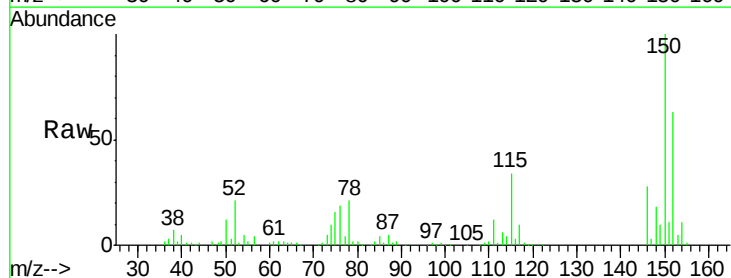
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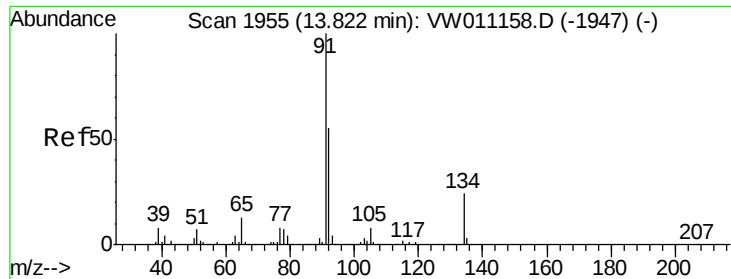
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#88
 1,4-Dichlorobenzene
 Concen: 2.696 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW011174.D
 Acq: 09 Jul 2019 12:59

Tgt Ion	Ratio	Lower	Upper
146	100		
111	54.7	19.9	59.7
148	66.8	31.5	94.5





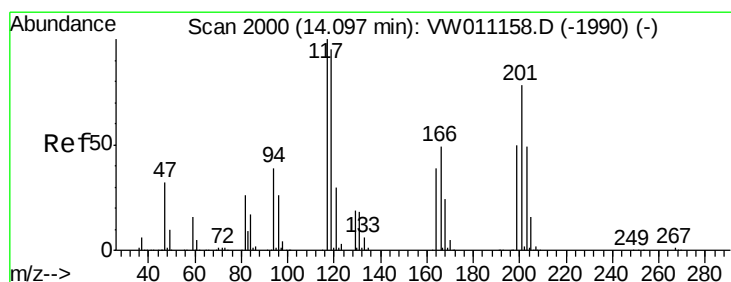
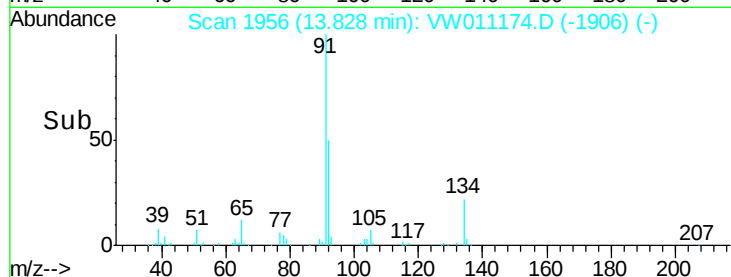
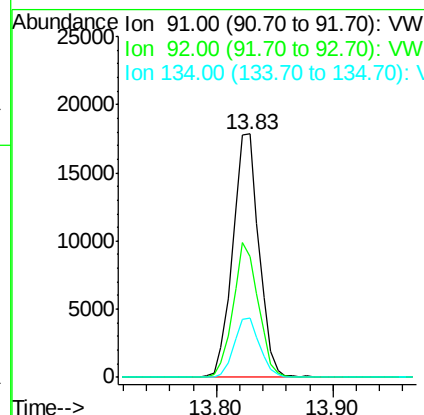
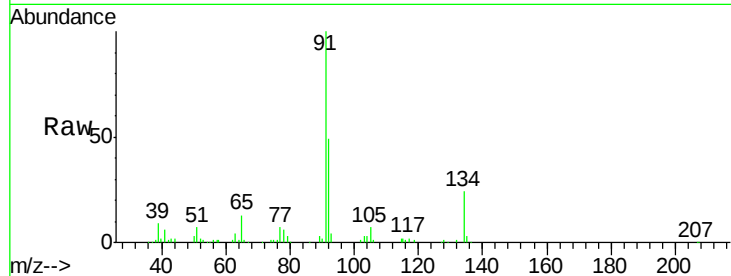
#89
n-Butylbenzene
Concen: 2.487 ug/l
RT: 13.83 min Scan# 1956
Delta R.T. 0.01 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

Tot Ion	Ratio	Resp	Lower	Upper
91	100	27992		
92	52.9		26.9	80.7
134	23.6		12.2	36.4

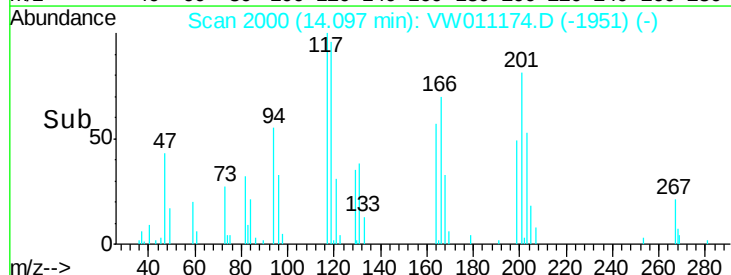
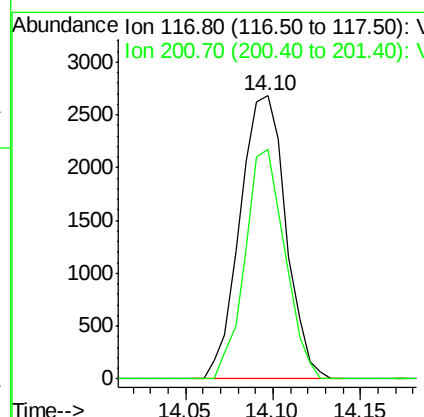
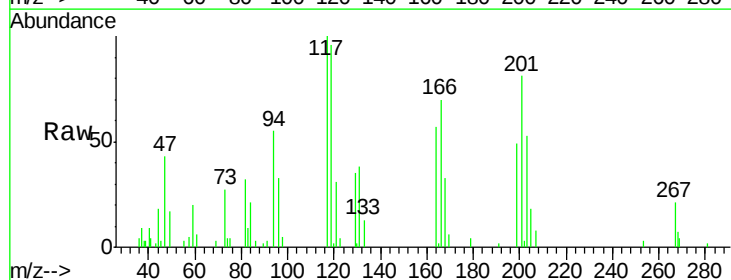
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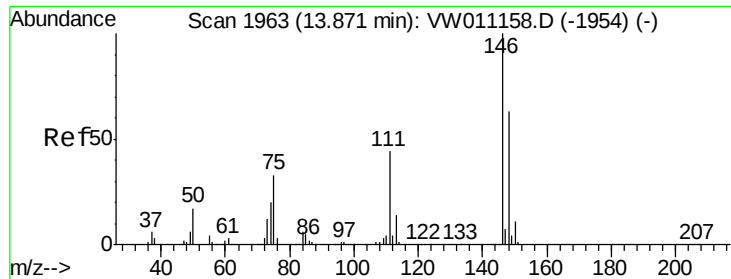
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#90
Hexachloroethane
Concen: 2.373 ug/l
RT: 14.10 min Scan# 2000
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	4891		
201	70.5		38.3	114.8





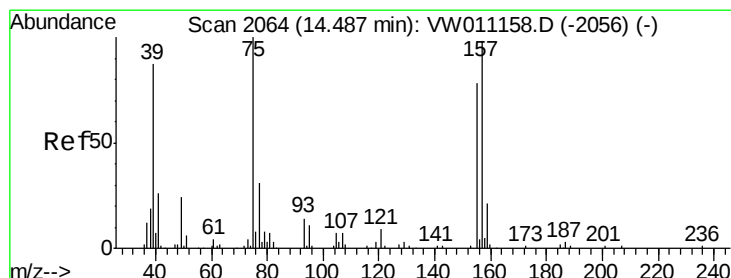
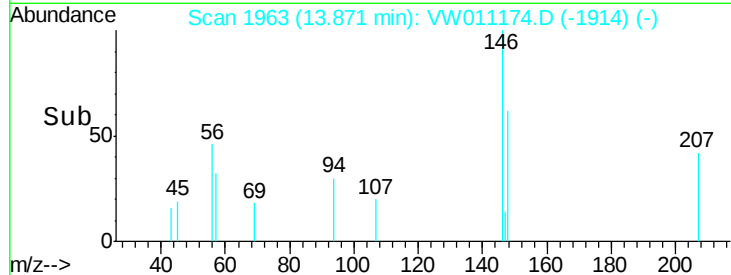
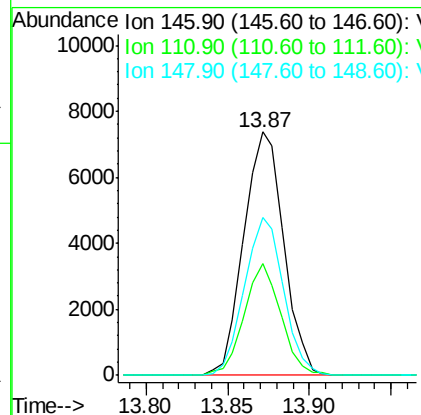
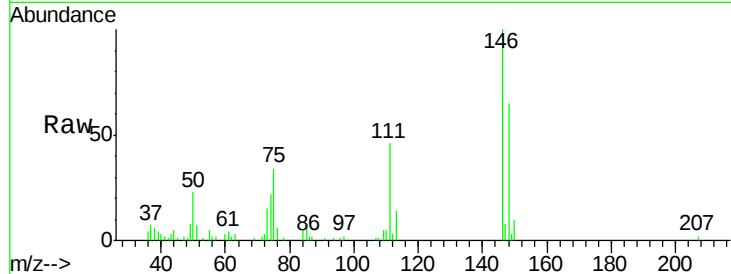
#91
 1,2-Dichlorobenzene
 Concen: 2.605 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW011174.D
 Acq: 09 Jul 2019 12:59

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.6	65.0
148	63.6	31.9	95.5

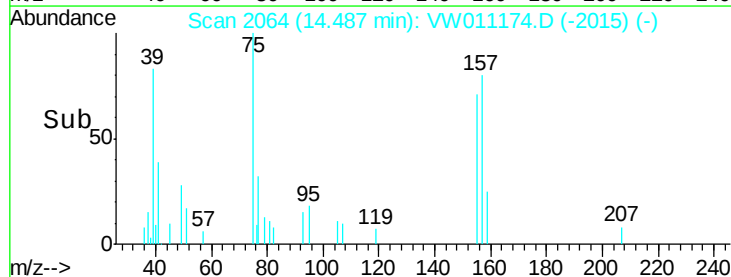
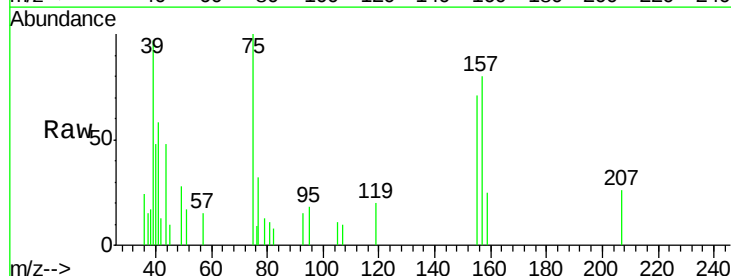
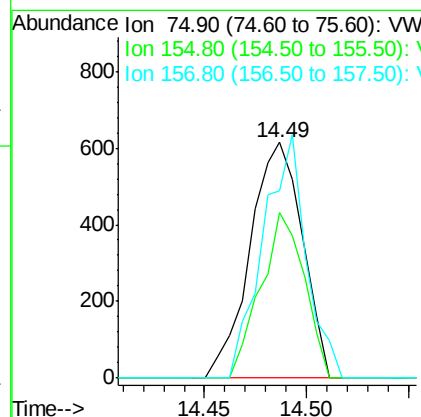
Manual Integrations
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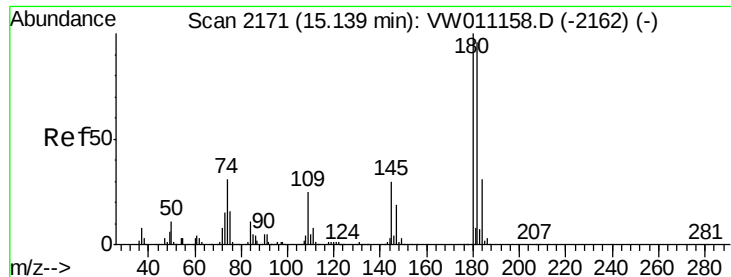
MMDadoda
 7/10/2019 10:47:49 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.452 ug/l
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VW011174.D
 Acq: 09 Jul 2019 12:59

Tgt Ion	Ratio	Lower	Upper
75	100		
155	58.6	37.1	111.3
157	84.8	48.5	145.6





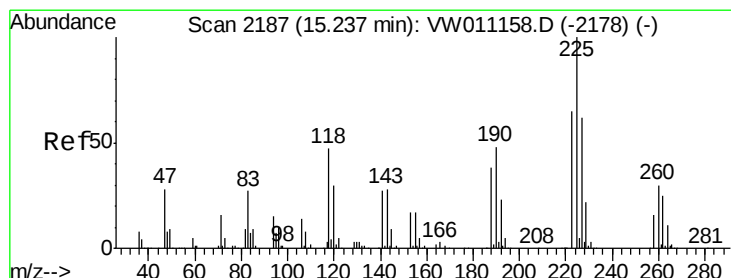
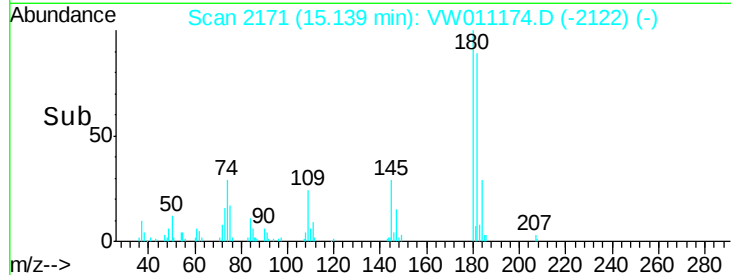
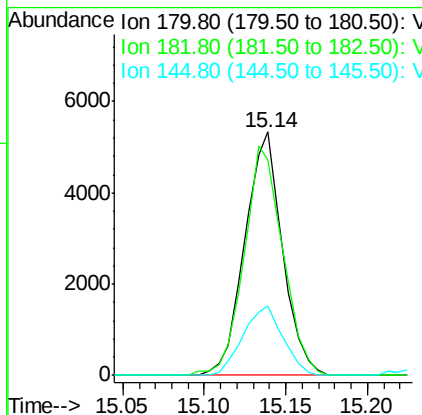
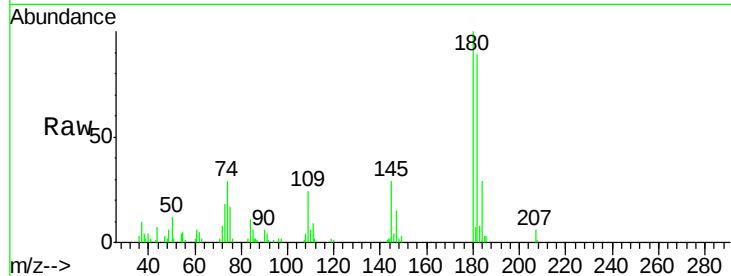
#93
 1,2,4-Trichlorobenzene
 Concen: 2.568 ug/l
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW011174.D
 Acq: 09 Jul 2019 12:59

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.3	48.3	144.9
145	30.4	15.5	46.5

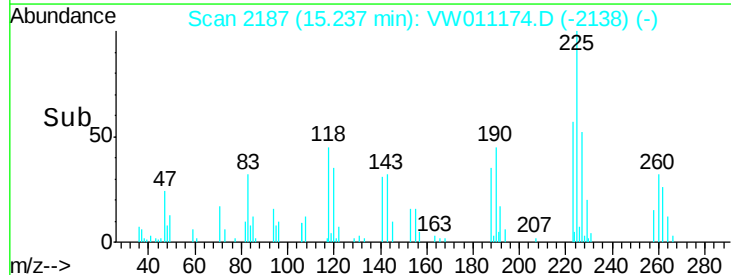
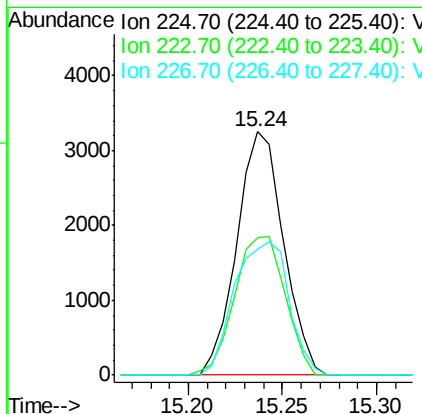
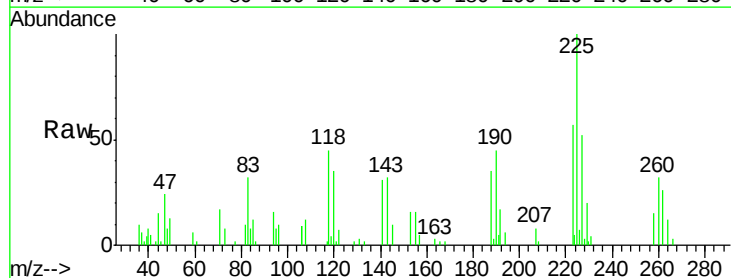
Manual Integrations
 APPROVED

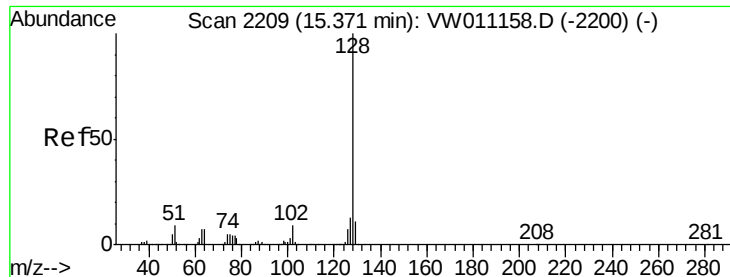
MMDadoda
 7/10/2019 10:47:49 AM



#94
 Hexachlorobutadiene
 Concen: 2.744 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. 0.00 min
 Lab File: VW011174.D
 Acq: 09 Jul 2019 12:59

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.3	31.6	95.0
227	63.9	32.0	96.0





#95

Naphthalene

Concen: 2.243 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

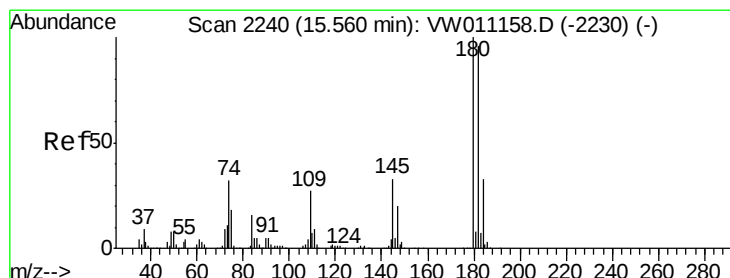
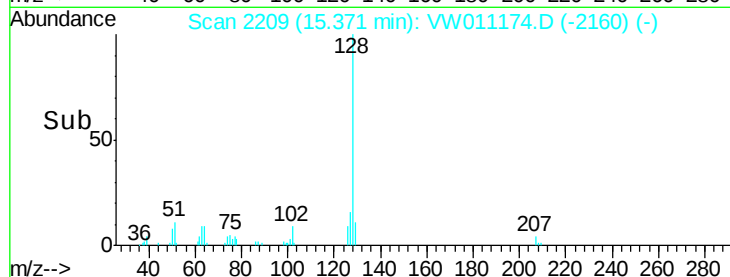
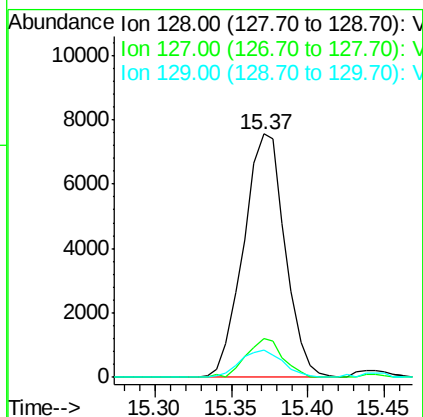
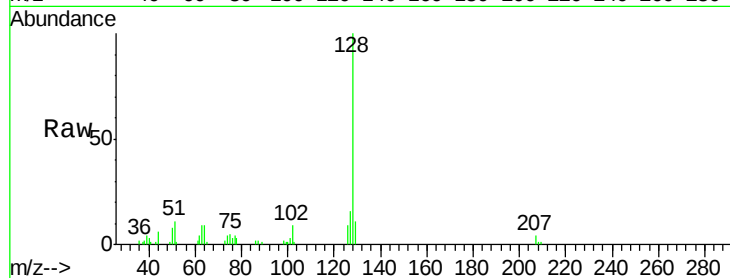
ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

Tot Ion:	128	Resp:	14266
Ion Ratio	Lower	Upper	
128	100		
127	14.1	10.6	16.0
129	11.5	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
7/10/2019 10:47:49 AM



#96

1,2,3-Trichlorobenzene

Concen: 2.673 ug/l

RT: 15.56 min Scan# 2240

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Tgt Ion:	180	Resp:	7830
Ion Ratio	Lower	Upper	
180	100		
182	97.7	47.6	142.8
145	33.8	16.5	49.5

