

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW030719\
 Data File : VW009043.D
 Acq On : 07 Mar 2019 16:48
 Operator : SY/VA
 Sample : K1560-03MDL2.5PPB
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

Manual Integrations
 APPROVED

MMDadoda
 3/8/2019 12:06:20 PM

Quant Time: Mar 08 06:17:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 05:22:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	277923	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	399532	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	390706	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	211456	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	149231	53.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.74%	
35) Dibromofluoromethane	7.88	113	129216	53.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.44%	
50) Toluene-d8	10.32	98	552872	55.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.92%	
62) 4-Bromofluorobenzene	12.62	95	206007	52.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.94%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.00	85	8852	3.160	ug/l	99
3) Chloromethane	2.21	50	9530	2.678	ug/l	91
4) Vinyl Chloride	2.36	62	9657	2.674	ug/l	91
5) Bromomethane	2.76	94	9086	2.981	ug/l	98
6) Chloroethane	2.92	64	7653	2.977	ug/l	99
7) Trichlorofluoromethane	3.26	101	11738	2.525	ug/l	95
8) Diethyl Ether	3.68	74	3331	2.343	ug/l	86
9) 1,1,2-Trichlorotrifluoroet	4.06	101	7664	2.647	ug/l	93
10) Methyl Iodide	4.28	142	5225	4.745	ug/l #	98
11) Tert butyl alcohol	5.18	59	4724m	22.047	ug/l	
12) 1,1-Dichloroethene	4.03	96	5879	2.354	ug/l	98
13) Acrolein	3.91	56	2848	12.079	ug/l #	72
14) Allyl chloride	4.68	41	10674	2.423	ug/l	95
15) Acrylonitrile	5.37	53	8371	13.492	ug/l #	16
16) Acetone	4.14	43	9182	14.552	ug/l	99
17) Carbon Disulfide	4.37	76	20075	2.389	ug/l #	93
18) Methyl Acetate	4.69	43	4175	2.877	ug/l #	85
19) Methyl tert-butyl Ether	5.43	73	15245	2.307	ug/l	96
20) Methylene Chloride	4.92	84	14902	Below Cal		96
21) trans-1,2-Dichloroethene	5.42	96	7159	2.482	ug/l	96
22) Diisopropyl ether	6.31	45	19457	2.222	ug/l #	85
23) Vinyl Acetate	6.26	43	57399	10.534	ug/l	97
24) 1,1-Dichloroethane	6.22	63	12708	2.502	ug/l	98
25) 2-Butanone	7.18	43	10017	11.487	ug/l	94
26) 2,2-Dichloropropane	7.17	77	12467	2.701	ug/l	98
27) cis-1,2-Dichloroethene	7.17	96	7223	2.332	ug/l	92
28) Bromochloromethane	7.51	49	5296	2.507	ug/l	100
29) Tetrahydrofuran	7.54	42	6340	11.537	ug/l	96
30) Chloroform	7.67	83	12212	2.336	ug/l	91
31) Cyclohexane	7.95	56	18777	3.601	ug/l #	64
32) 1,1,1-Trichloroethane	7.87	97	12174	2.523	ug/l	94
36) 1,1-Dichloropropene	8.08	75	11039	2.642	ug/l	98
37) Ethyl Acetate	7.26	43	4383	2.234	ug/l #	82
38) Carbon Tetrachloride	8.07	117	10696	2.479	ug/l	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	12733	2.559	ug/l	94
40) Benzene	8.32	78	26671	2.392	ug/l	98
41) Methacrylonitrile	7.48	41	1638	1.503	ug/l #	55
42) 1,2-Dichloroethane	8.40	62	9121	2.533	ug/l	96
43) Isopropyl Acetate	8.42	43	9119	2.495	ug/l	97
44) Trichloroethene	9.09	130	7287	2.331	ug/l	96
45) 1,2-Dichloropropane	9.37	63	6795	2.433	ug/l #	84
46) Dibromomethane	9.45	93	3617	2.371	ug/l	99
47) Bromodichloromethane	9.64	83	8895	2.304	ug/l #	93
48) Methyl methacrylate	9.43	41	3464	2.036	ug/l #	86
49) 1,4-Dioxane	9.46	88	1169	53.518	ug/l	95
51) 4-Methyl-2-Pentanone	10.21	43	20987	11.312	ug/l	98
52) Toluene	10.39	92	18439	2.438	ug/l	100
53) t-1,3-Dichloropropene	10.61	75	8522	2.231	ug/l	96
54) cis-1,3-Dichloropropene	10.07	75	10145	2.312	ug/l	96
55) 1,1,2-Trichloroethane	10.79	97	5575	2.697	ug/l	97
56) Ethyl methacrylate	10.65	69	5716	2.228	ug/l	98
57) 1,3-Dichloropropane	10.94	76	8861	2.419	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.92	63	14523	10.918	ug/l	96
59) 2-Hexanone	10.97	43	14587	11.182	ug/l	99
60) Dibromochloromethane	11.13	129	5458	2.133	ug/l	96
61) 1,2-Dibromoethane	11.24	107	4795	2.366	ug/l	99
64) Tetrachloroethene	10.87	164	7584	2.692	ug/l	92
65) Chlorobenzene	11.66	112	20998	2.469	ug/l	92
66) 1,1,1,2-Tetrachloroethane	11.73	131	6535	2.301	ug/l	94
67) Ethyl Benzene	11.73	91	35498	2.311	ug/l	96
68) m/p-Xylenes	11.84	106	28347	4.675	ug/l	99
69) o-Xylene	12.16	106	12325	2.184	ug/l	99
70) Styrene	12.18	104	19981	2.189	ug/l	99
71) Bromoform	12.35	173	3399	2.229	ug/l #	93
73) Isopropylbenzene	12.46	105	34397	2.272	ug/l	99
74) N-amyl acetate	12.27	43	6854	1.912	ug/l #	87
75) 1,1,2,2-Tetrachloroethane	12.72	83	5776	2.418	ug/l	99
76) 1,2,3-Trichloropropane	12.77	75	5303m	3.174	ug/l	
77) Bromobenzene	12.75	156	8183	2.365	ug/l	99
78) n-propylbenzene	12.80	91	44249	2.372	ug/l	99
79) 2-Chlorotoluene	12.90	91	25576	2.441	ug/l	97
80) 1,3,5-Trimethylbenzene	12.94	105	29834	2.286	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.51	75	1675m	2.243	ug/l	
82) 4-Chlorotoluene	12.99	91	26752	2.395	ug/l	97
83) tert-Butylbenzene	13.21	119	25920	2.355	ug/l	99
84) 1,2,4-Trimethylbenzene	13.26	105	28869	2.186	ug/l	99
85) sec-Butylbenzene	13.38	105	37796	2.317	ug/l	97
86) p-Isopropyltoluene	13.50	119	32633	2.237	ug/l	99
87) 1,3-Dichlorobenzene	13.51	146	18402	2.531	ug/l	97
88) 1,4-Dichlorobenzene	13.58	146	19589	2.726	ug/l	90
89) n-Butylbenzene	13.83	91	30304	2.185	ug/l	98
90) Hexachloroethane	14.10	117	6164	2.449	ug/l	97
91) 1,2-Dichlorobenzene	13.87	146	16302	2.541	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.49	75	1229	2.889	ug/l	87

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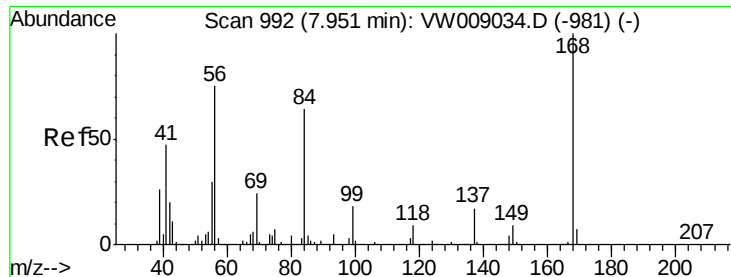
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	10599	2.446	ug/l	99
94) Hexachlorobutadiene	15.24	225	7559	2.785	ug/l	96
95) Naphthalene	15.38	128	14519	2.047	ug/l	95
96) 1,2,3-Trichlorobenzene	15.57	180	9370	2.459	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:168 Resp: 277923

Ion Ratio Lower Upper

168 100

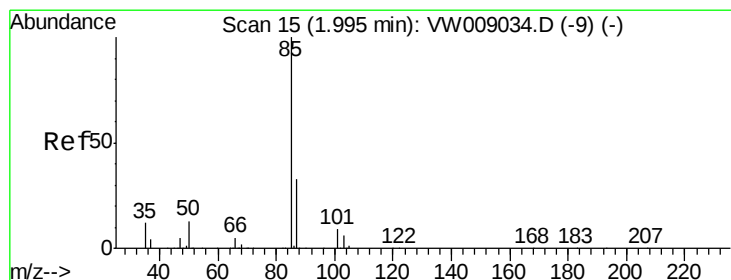
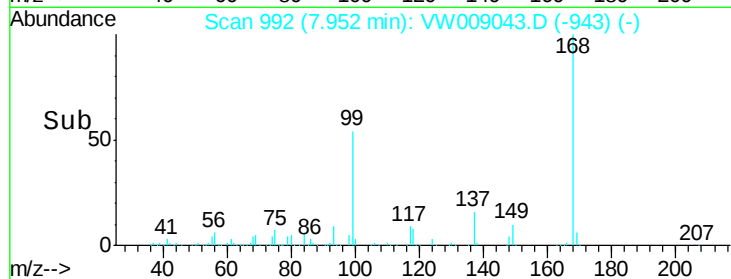
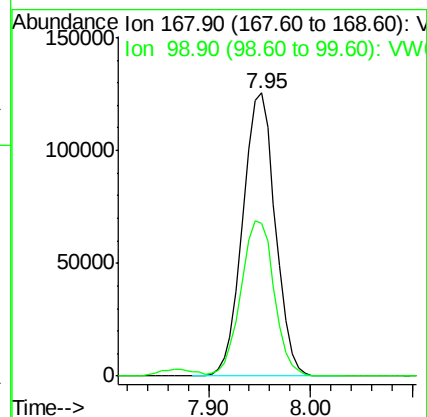
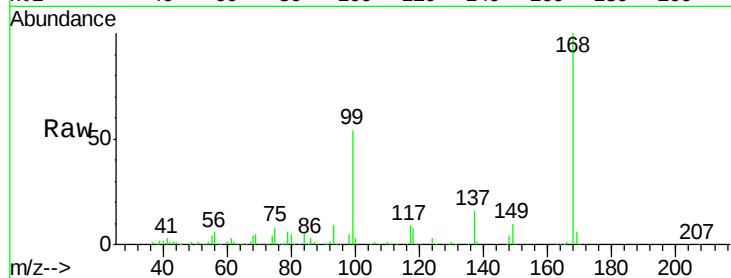
99 54.0 42.2 63.2

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 3.160 ug/l

RT: 2.00 min Scan# 16

Delta R.T. 0.01 min

Lab File: VW009043.D

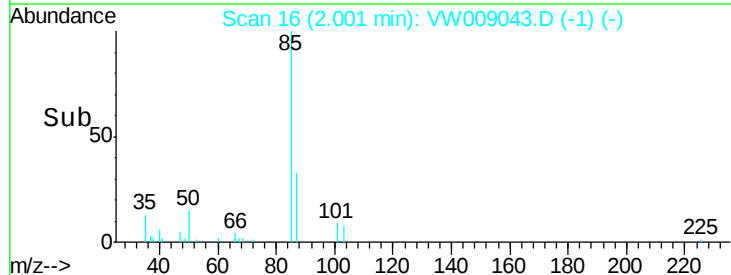
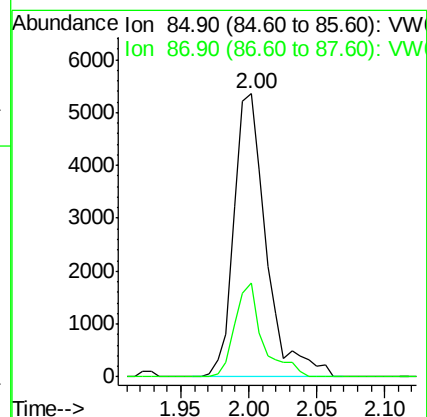
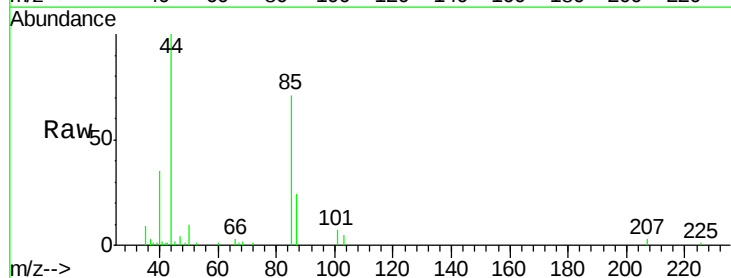
Acq: 07 Mar 2019 16:48

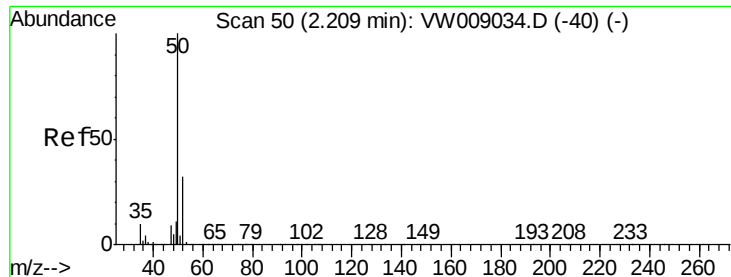
Tgt Ion: 85 Resp: 8852

Ion Ratio Lower Upper

85 100

87 33.2 16.3 48.9





#3

Chloromethane

Concen: 2.678 ug/l

RT: 2.21 min Scan# 50

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 50 Resp: 9530

Ion Ratio Lower Upper

50 100

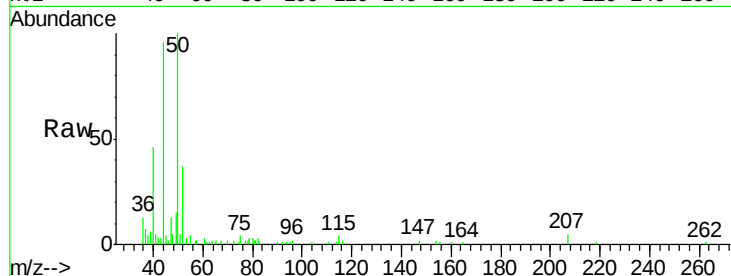
52 36.9 25.4 38.2

Manual Integrations

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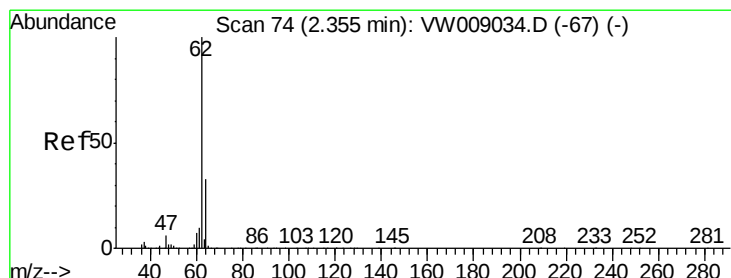
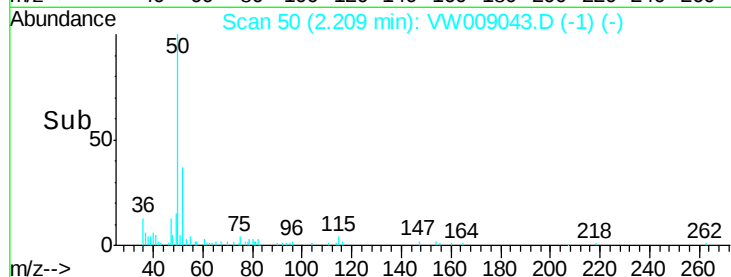
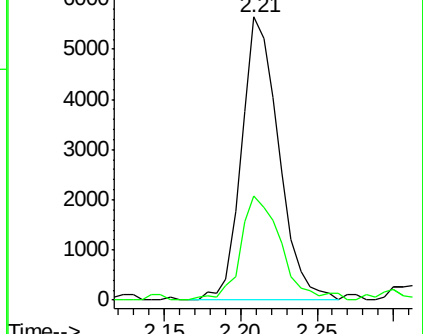
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Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW



#4

Vinyl Chloride

Concen: 2.674 ug/l

RT: 2.36 min Scan# 74

Delta R.T. 0.00 min

Lab File: VW009043.D

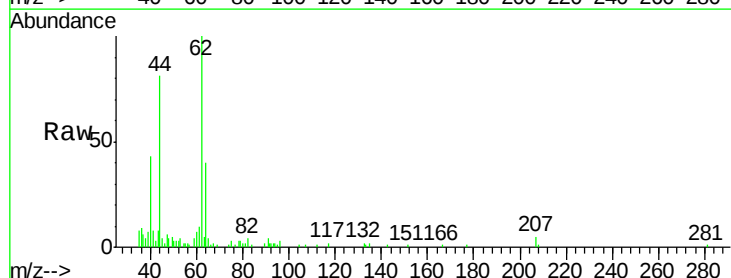
Acq: 07 Mar 2019 16:48

Tgt Ion: 62 Resp: 9657

Ion Ratio Lower Upper

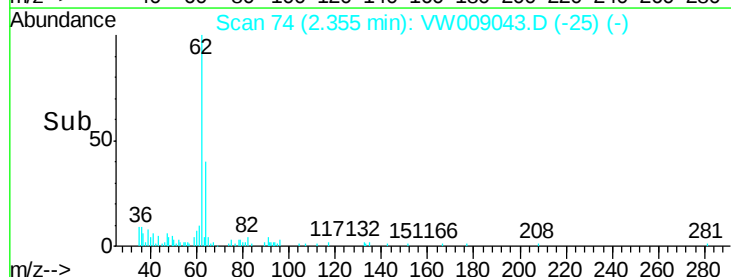
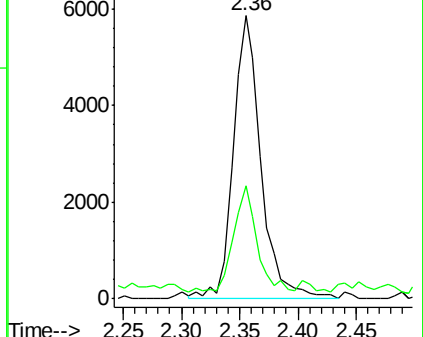
62 100

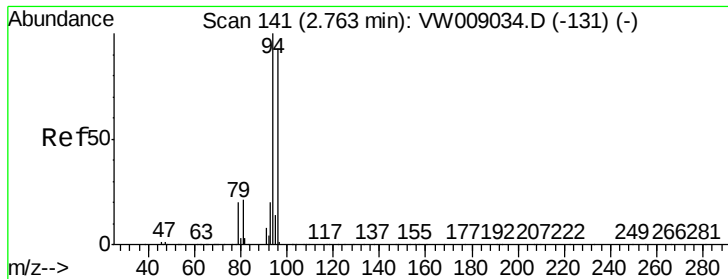
64 37.7 26.0 39.0



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW





#5

Bromomethane

Concen: 2.981 ug/l

RT: 2.76 min Scan# 141

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 94 Resp: 9086

Ion Ratio Lower Upper

94 100

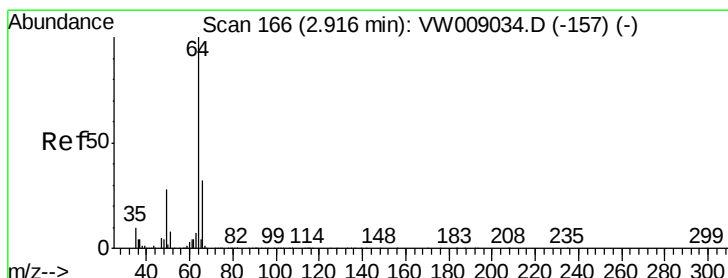
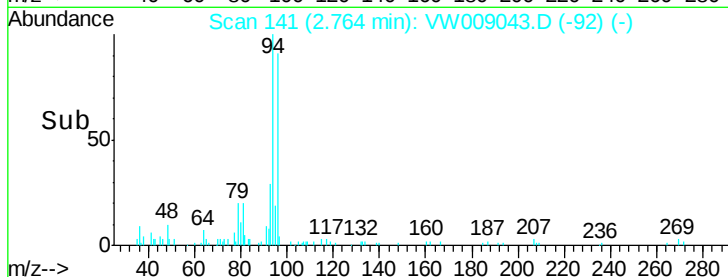
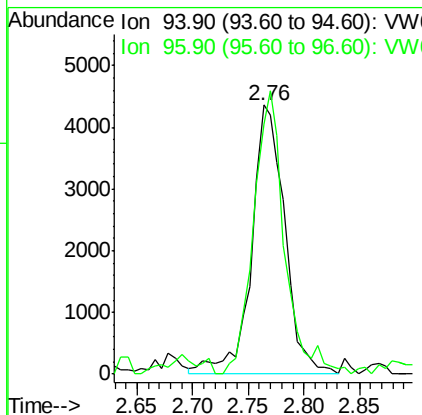
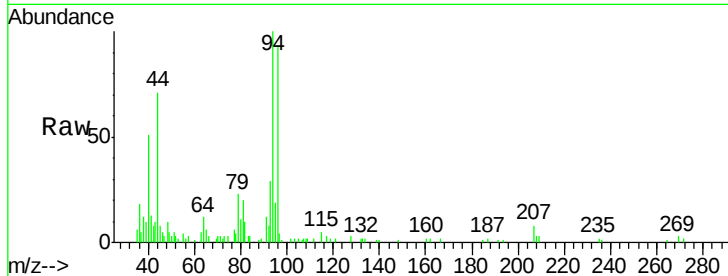
96 90.7 74.4 111.6

Manual Integrations

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#6

Chloroethane

Concen: 2.977 ug/l

RT: 2.92 min Scan# 166

Delta R.T. 0.00 min

Lab File: VW009043.D

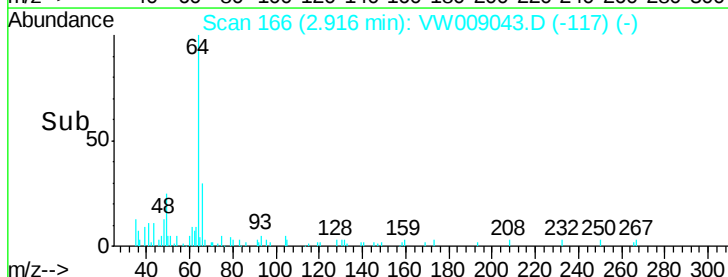
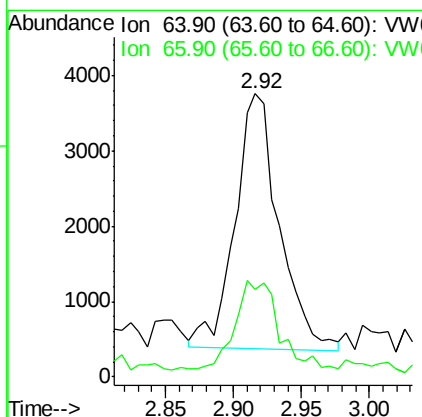
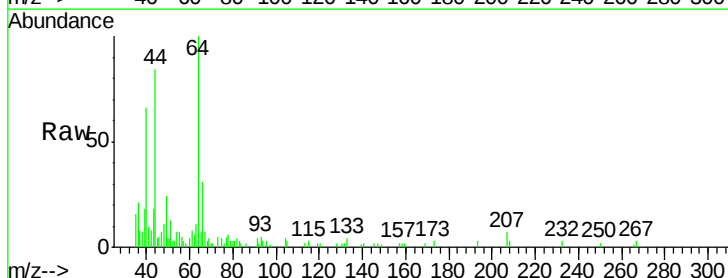
Acq: 07 Mar 2019 16:48

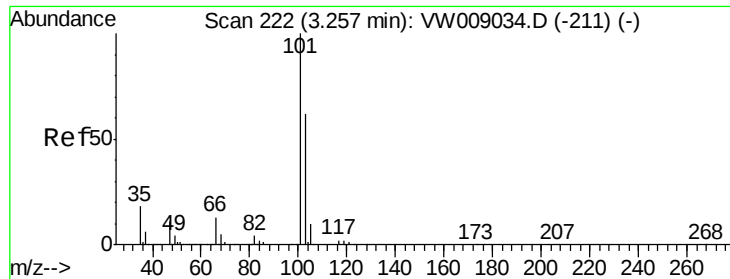
Tgt Ion: 64 Resp: 7653

Ion Ratio Lower Upper

64 100

66 32.2 25.5 38.3





#7

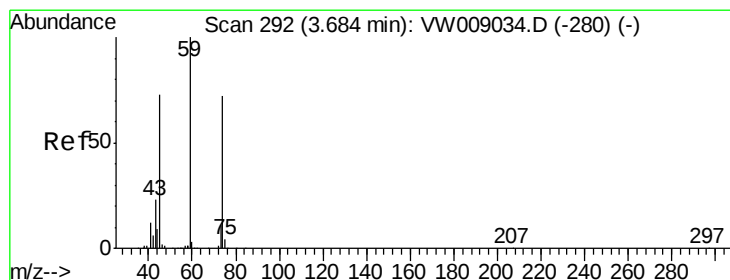
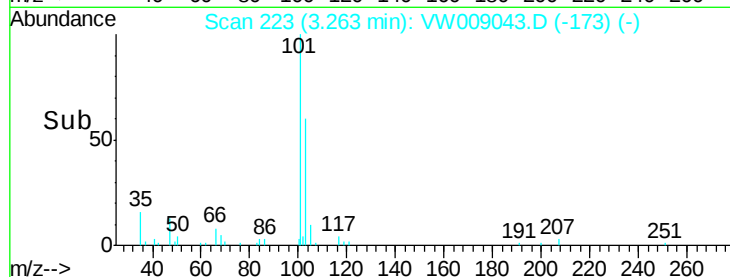
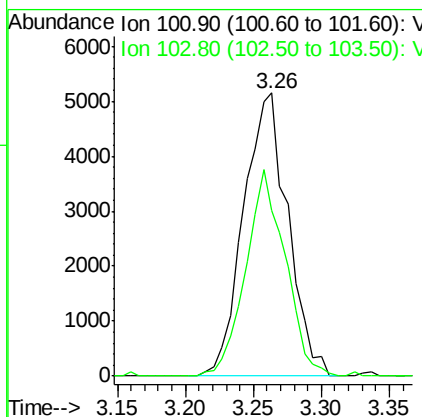
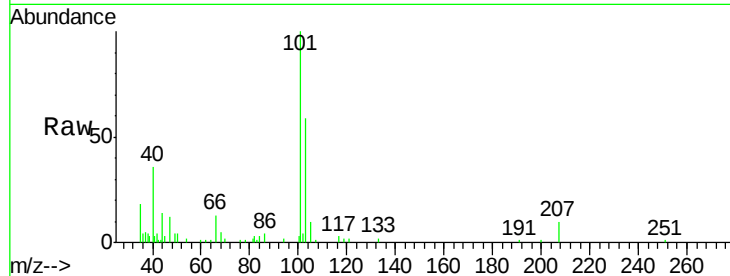
Trichlorofluoromethane
Concen: 2.525 ug/l
RT: 3.26 min Scan# 223
Delta R.T. 0.01 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

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Tot Ion	Ratio	Lower	Upper
101	100		
103	58.5	49.9	74.9

Manual Integrations
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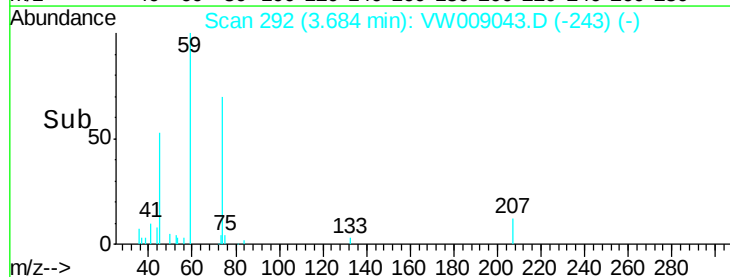
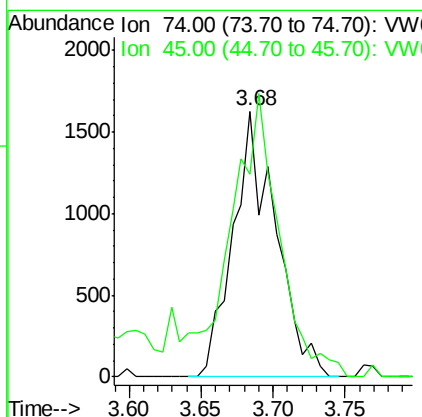
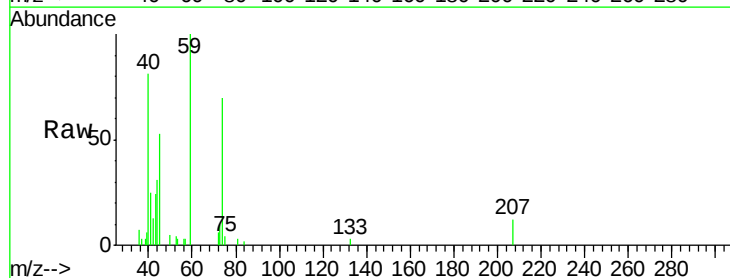
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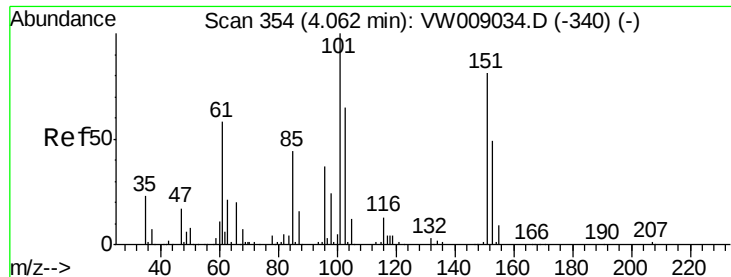


#8

Diethyl Ether
Concen: 2.343 ug/l
RT: 3.68 min Scan# 292
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Tgt Ion	Ratio	Lower	Upper
74	100		
45	119.3	52.3	157.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.647 ug/l

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

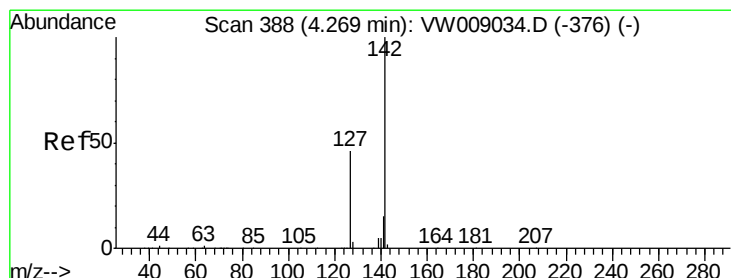
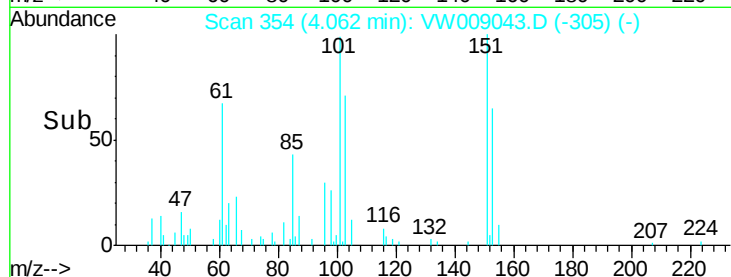
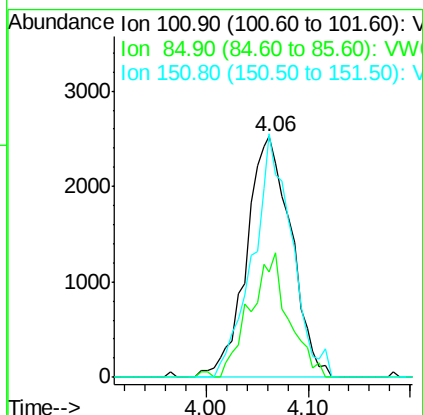
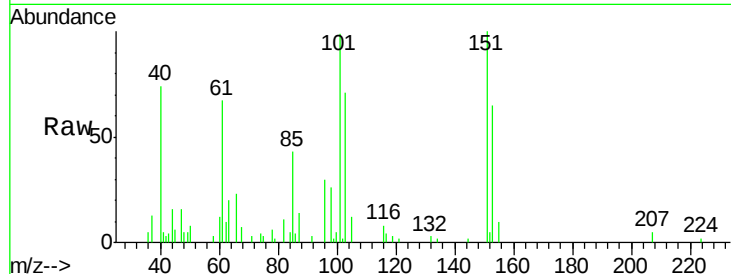
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:	101	Resp:	7664
Ion Ratio	Lower	Upper	
101	100		
85	44.5	36.2	54.4
151	88.4	63.4	95.2

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#10

Methyl Iodide

Concen: 4.745 ug/l

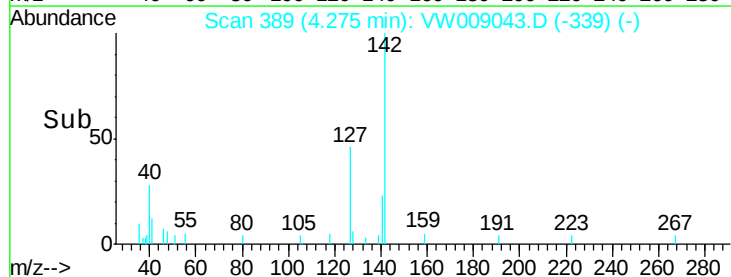
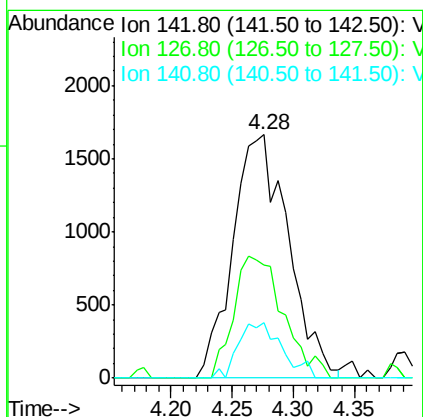
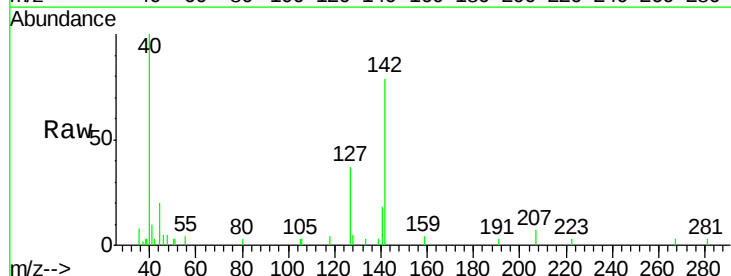
RT: 4.28 min Scan# 389

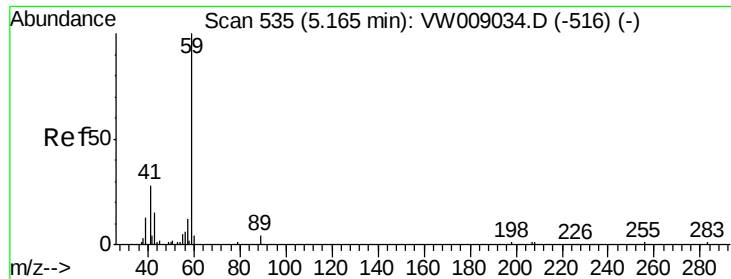
Delta R.T. 0.01 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Tgt Ion:	142	Resp:	5225
Ion Ratio	Lower	Upper	
142	100		
127	45.1	35.8	53.6
141	18.0	11.8	17.8#





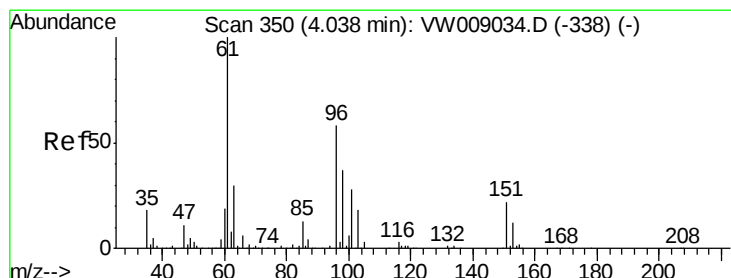
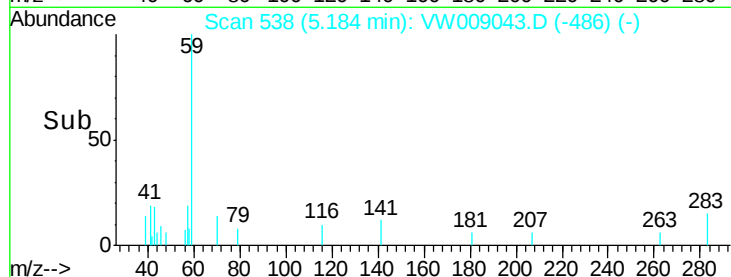
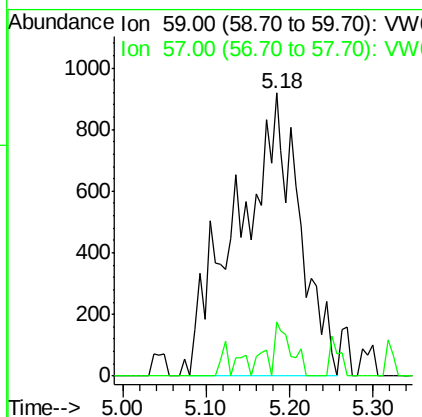
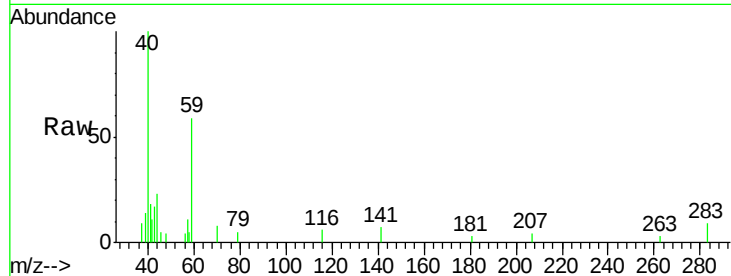
#11
Tert butyl alcohol
Concen: 22.047 ug/l m
RT: 5.18 min Scan# 538
Delta R.T. 0.02 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 59 Resp: 4724
Ion Ratio Lower Upper
59 100
57 6.9 8.6 12.8#

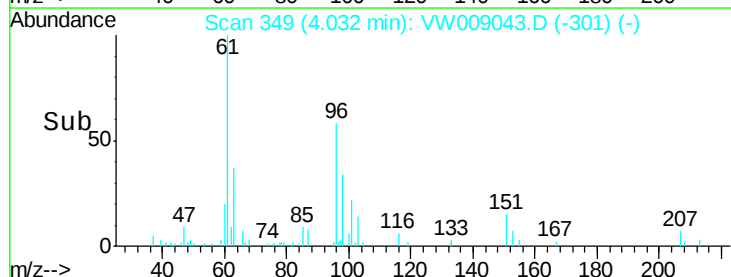
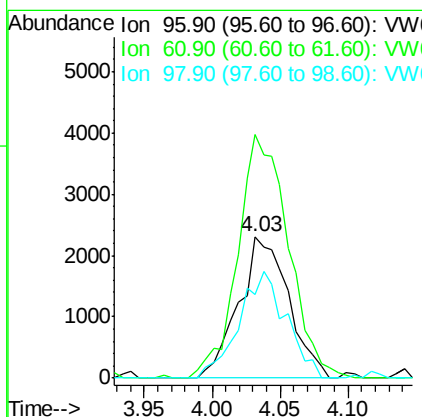
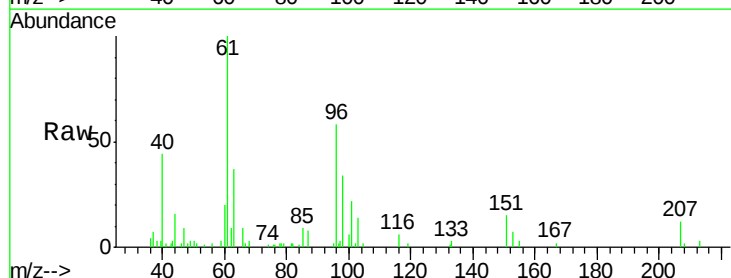
Manual Integrations
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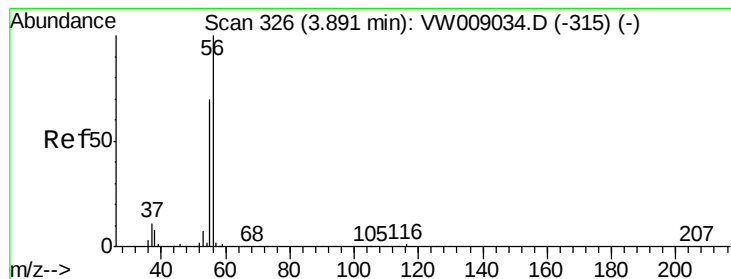
MMDadoda
3/8/2019 12:06:20 PM



#12
1,1-Dichloroethene
Concen: 2.354 ug/l
RT: 4.03 min Scan# 349
Delta R.T. -0.01 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Tgt Ion: 96 Resp: 5879
Ion Ratio Lower Upper
96 100
61 172.3 138.2 207.2
98 58.9 51.3 76.9





#13

Acrolein

Concen: 12.079 ug/l

RT: 3.91 min Scan# 329

Delta R.T. 0.02 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 56 Resp: 2848

Ion Ratio Lower Upper

56 100

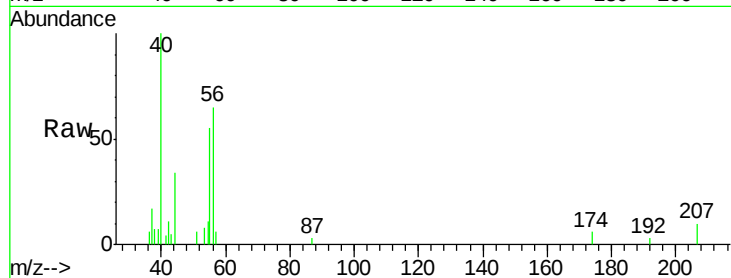
55 93.8 56.6 84.8#

Manual Integrations

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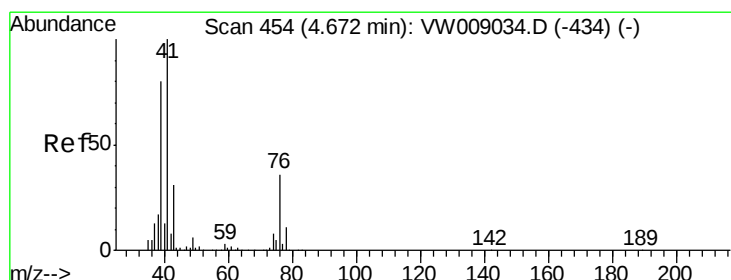
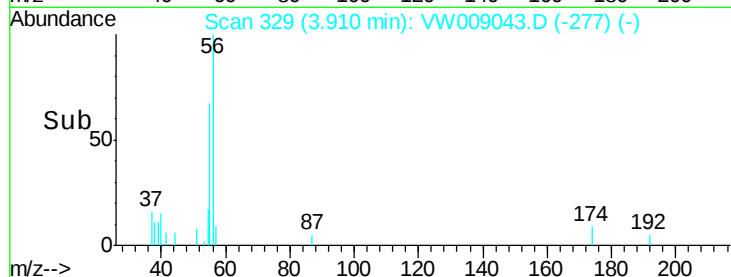
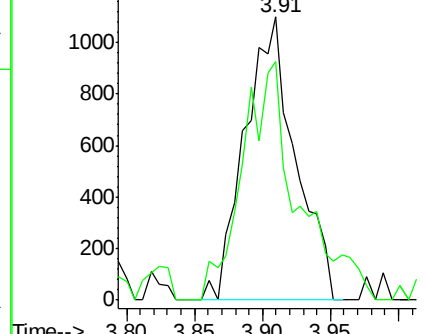
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#14

Allyl chloride

Concen: 2.423 ug/l

RT: 4.68 min Scan# 455

Delta R.T. 0.01 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

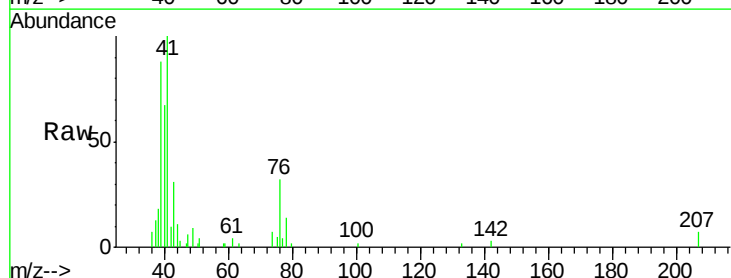
Tgt Ion: 41 Resp: 10674

Ion Ratio Lower Upper

41 100

39 74.0 63.0 94.4

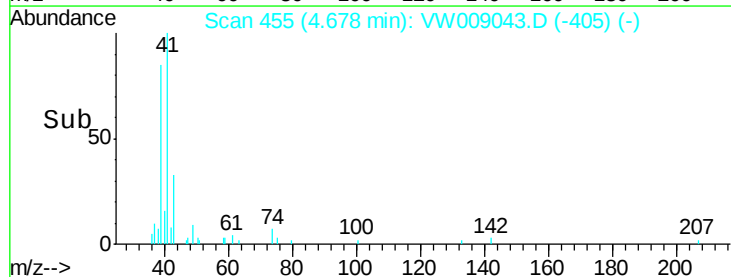
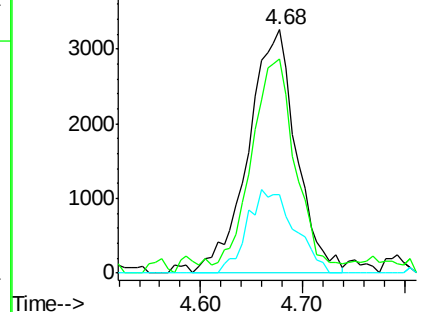
76 33.5 28.2 42.2

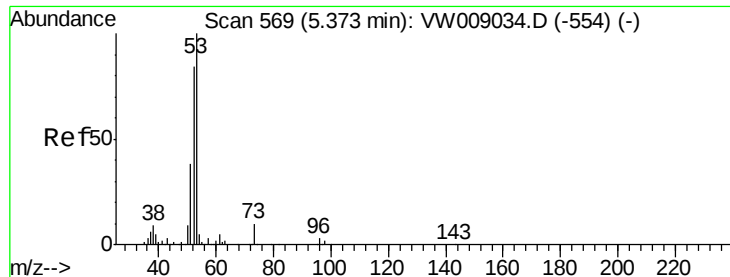


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 75.90 (75.60 to 76.60): VW





#15

Acrylonitrile

Concen: 13.492 ug/l

RT: 5.37 min Scan# 568

Delta R.T. -0.01 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

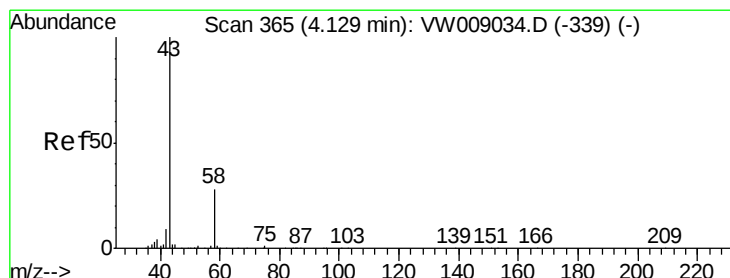
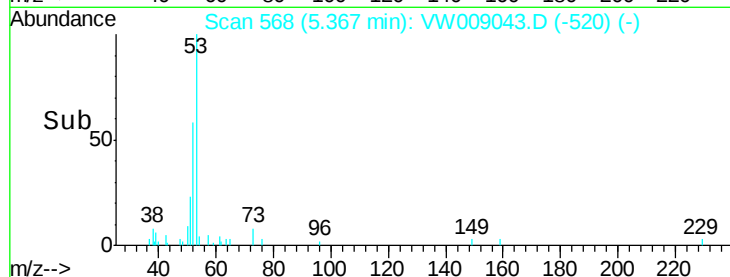
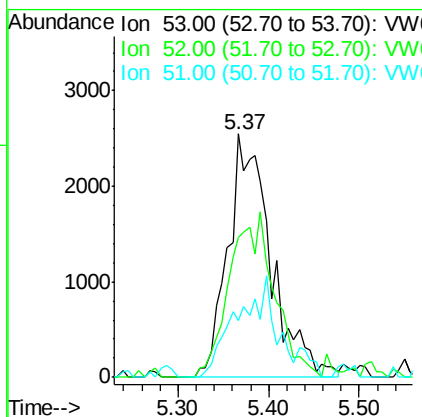
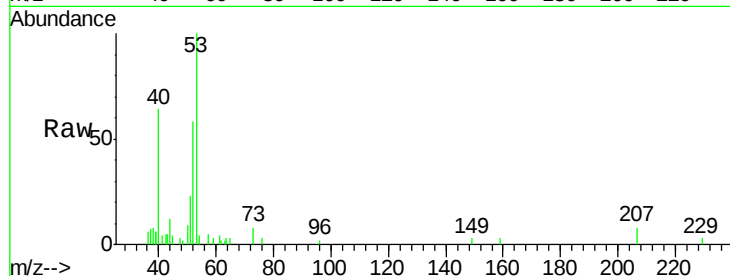
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:	53	Resp:	8371
Ion	Ratio	Lower	Upper
53	100		
52	0.0	67.2	100.8#
51	0.0	31.8	47.6#

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#16

Acetone

Concen: 14.552 ug/l

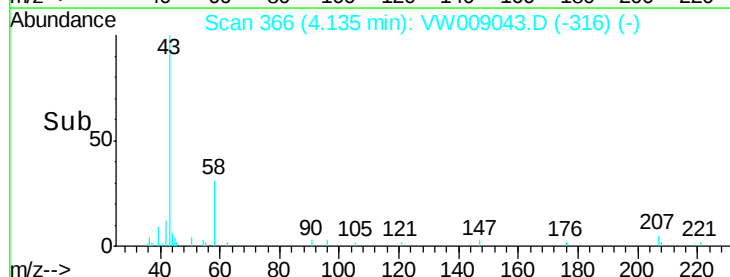
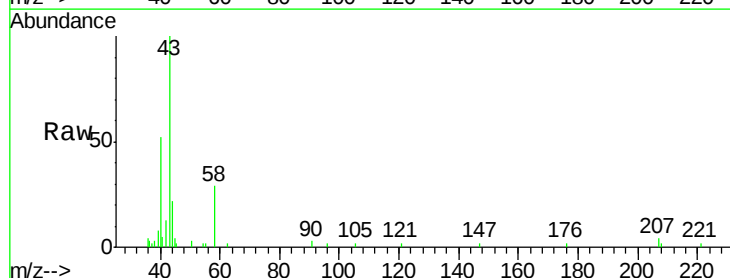
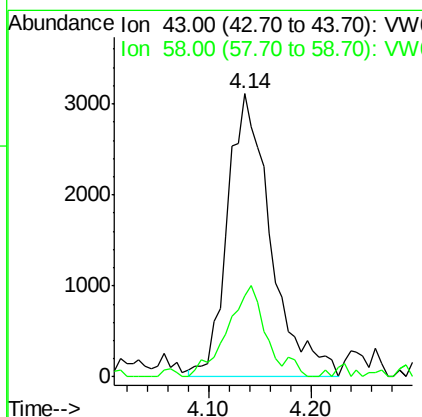
RT: 4.14 min Scan# 366

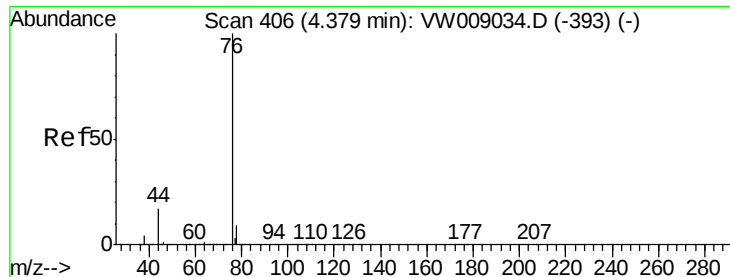
Delta R.T. 0.01 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Tgt Ion:	43	Resp:	9182
Ion	Ratio	Lower	Upper
43	100		
58	28.6	22.5	33.7





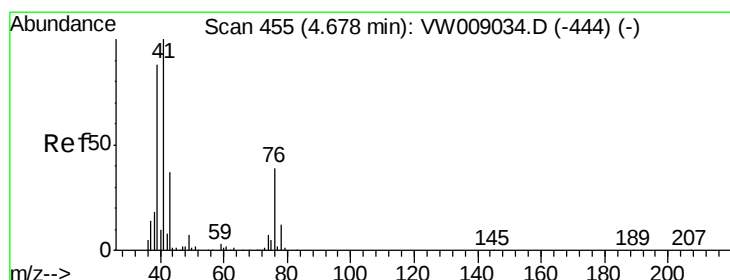
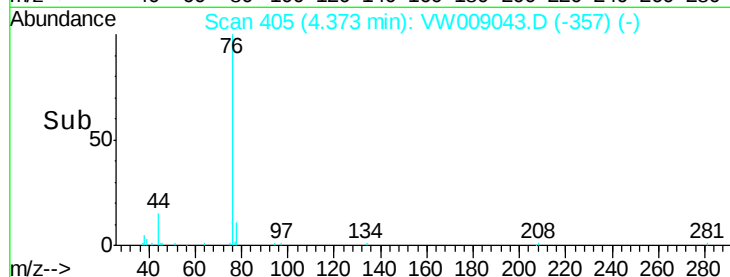
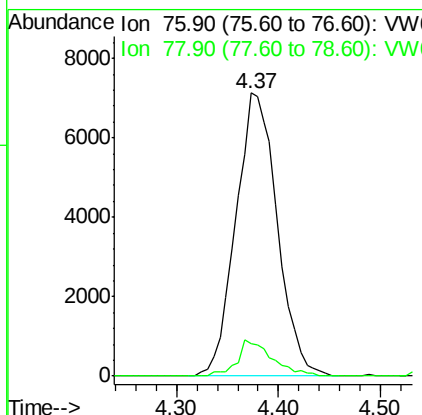
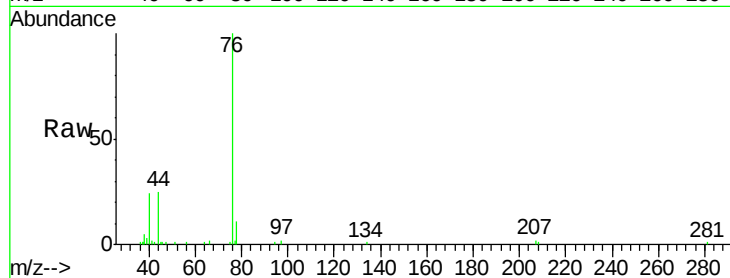
#17
Carbon Disulfide
Concen: 2.389 ug/l
RT: 4.37 min Scan# 405
Delta R.T. -0.01 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 76 Resp: 20075
Ion Ratio Lower Upper
76 100
78 11.4 7.0 10.6#

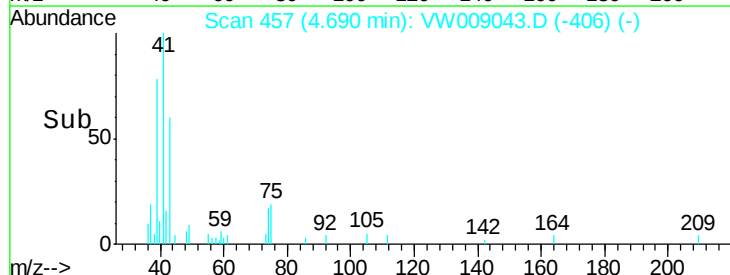
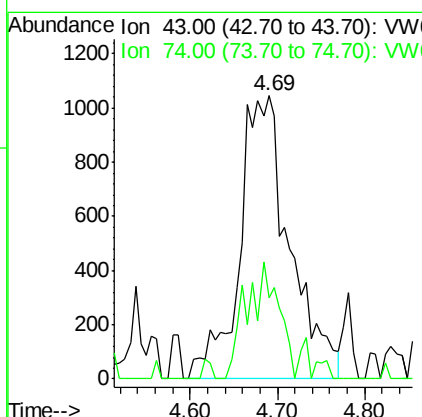
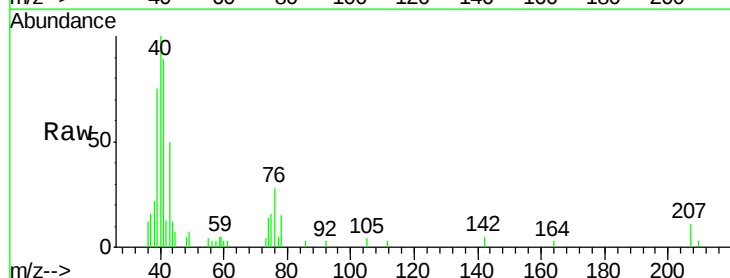
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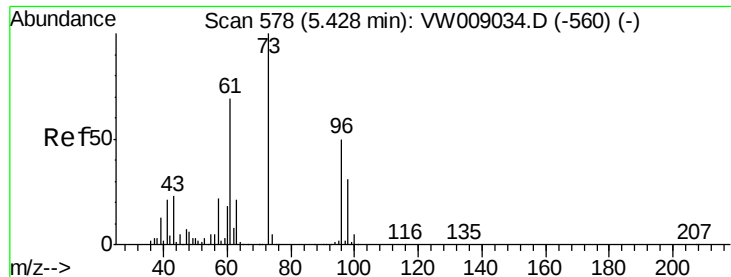
MMDadoda
3/8/2019 12:06:20 PM



#18
Methyl Acetate
Concen: 2.877 ug/l
RT: 4.69 min Scan# 457
Delta R.T. 0.01 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Tgt Ion: 43 Resp: 4175
Ion Ratio Lower Upper
43 100
74 14.7 17.6 26.4#





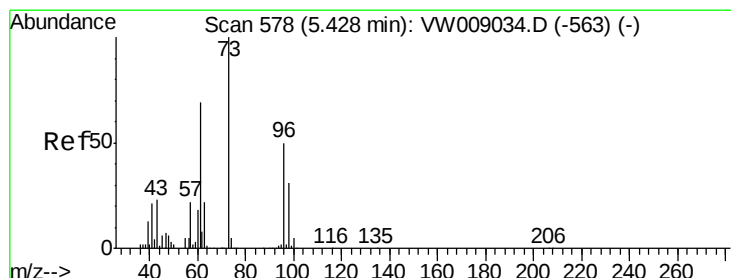
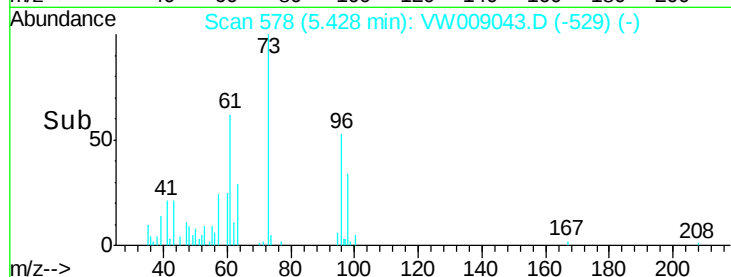
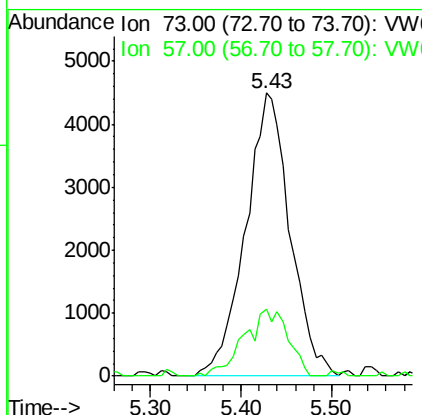
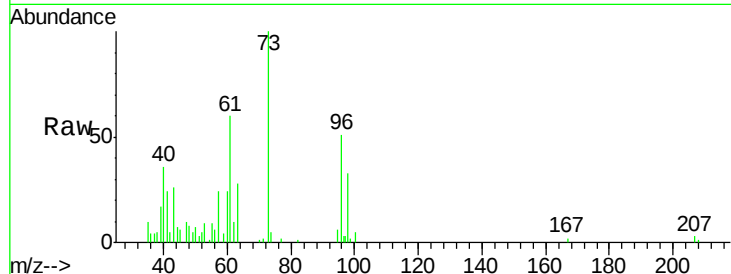
#19
Methvl tert-butvl Ether
Concen: 2.307 ug/l
RT: 5.43 min Scan# 578
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 73 Resp: 15245
Ion Ratio Lower Upper
73 100
57 23.6 17.3 25.9

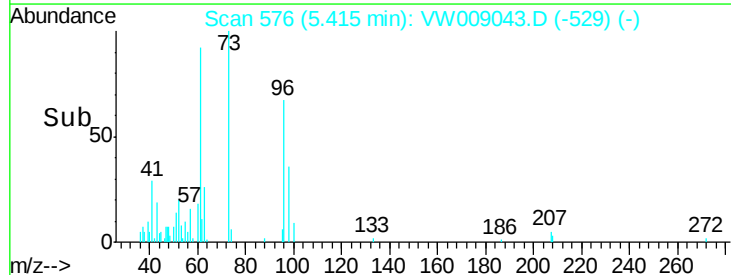
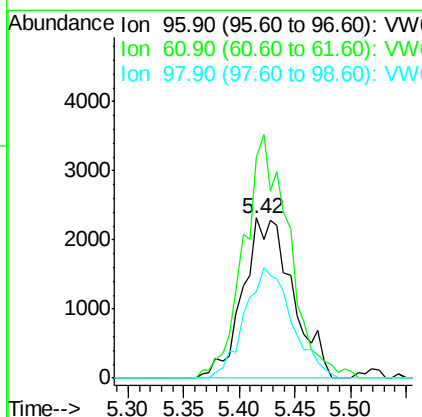
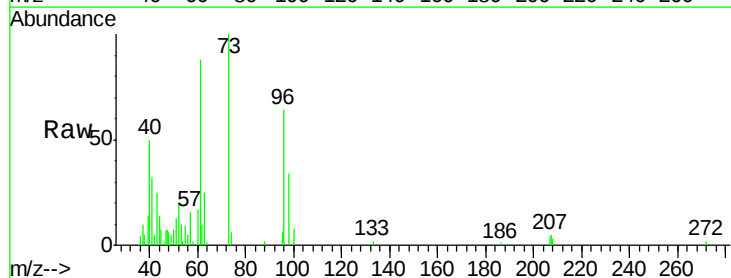
Manual Integrations
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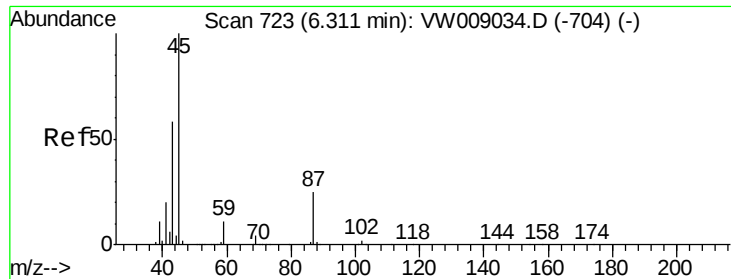
MMDadoda
3/8/2019 12:06:20 PM



#21
trans-1,2-Dichloroethene
Concen: 2.482 ug/l
RT: 5.42 min Scan# 576
Delta R.T. -0.01 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Tgt Ion: 96 Resp: 7159
Ion Ratio Lower Upper
96 100
61 137.7 111.0 166.6
98 53.7 49.4 74.0





#22

Diisopropyl ether

Concen: 2.222 ug/l

RT: 6.31 min Scan# 723

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

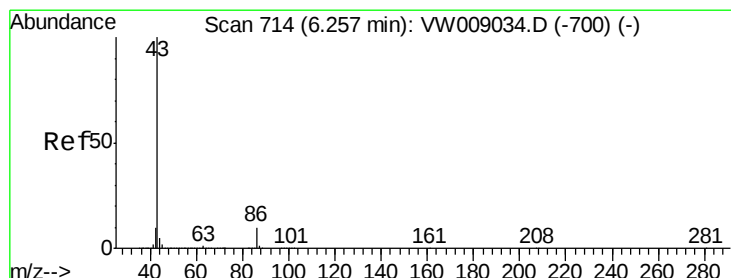
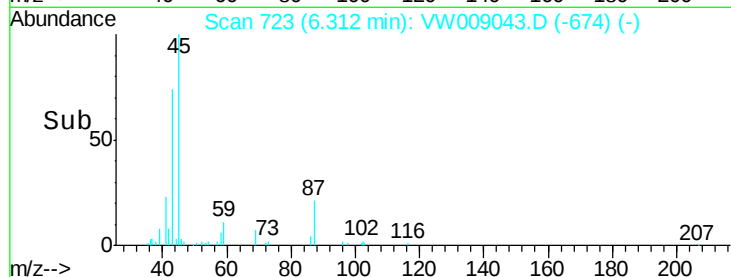
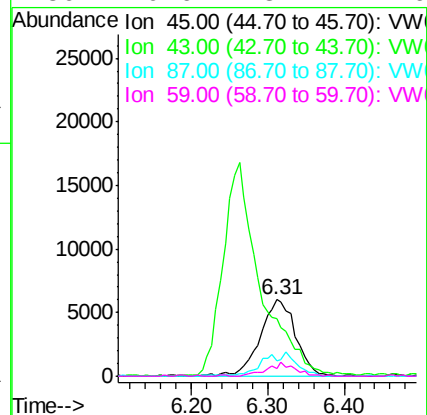
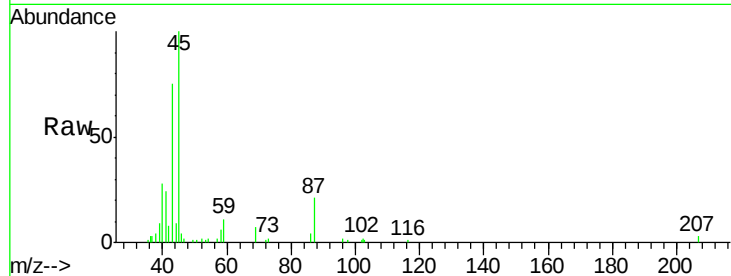
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ion	Ratio	Lower	Upper
45	100			
43	73.4	46.2	69.4#	
87	20.7	20.1	30.1	
59	10.6	8.4	12.6	

Manual Integrations
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#23

Vinyl Acetate

Concen: 10.534 ug/l

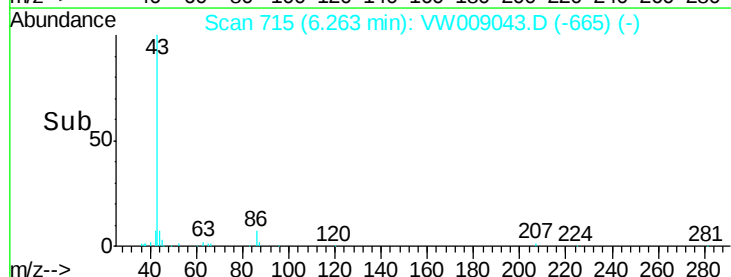
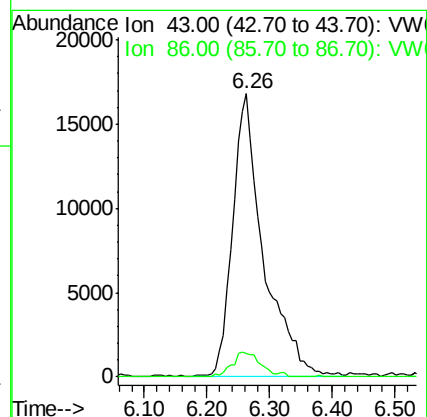
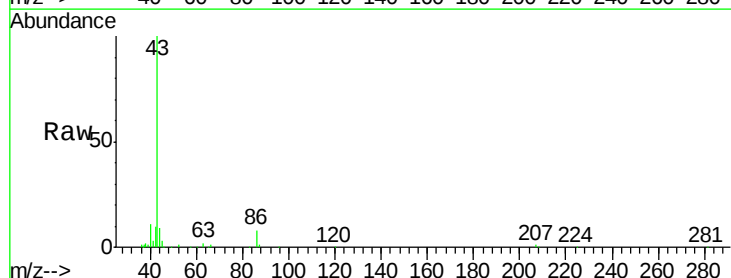
RT: 6.26 min Scan# 715

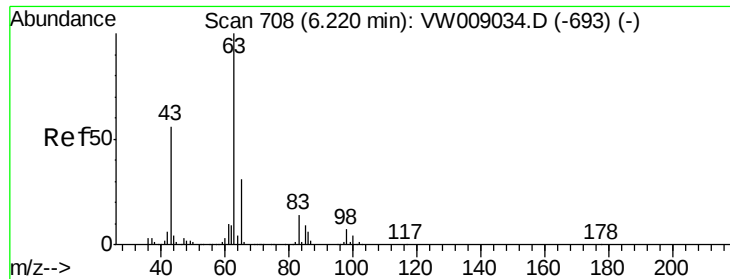
Delta R.T. 0.01 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Tgt Ion	Ion	Ratio	Lower	Upper
43	100			
86	8.4	7.6	11.4	





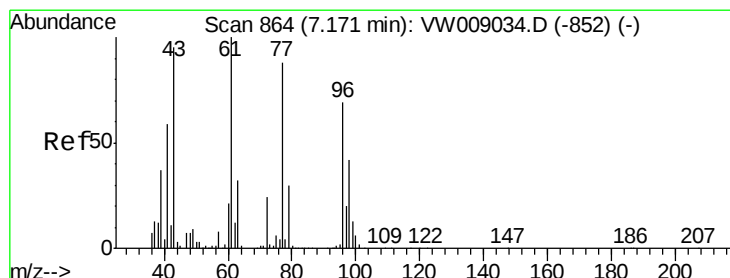
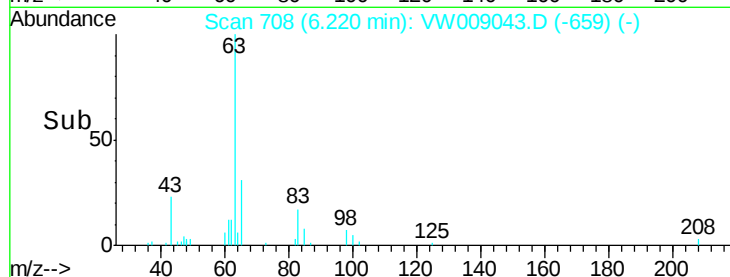
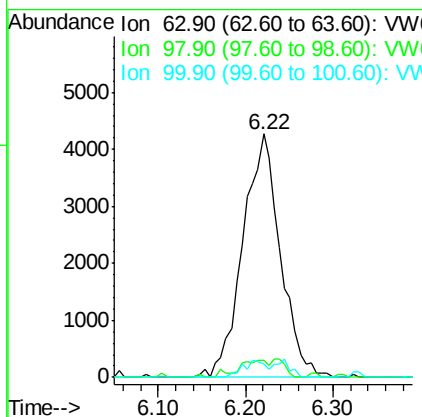
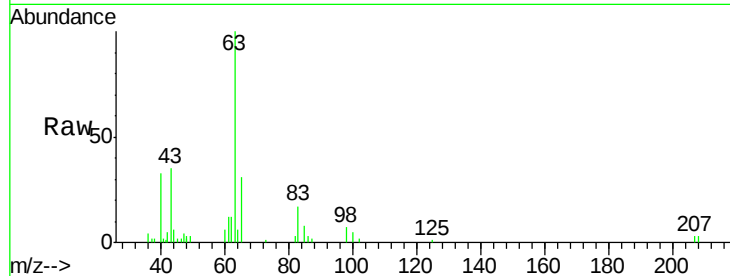
#24
 1,1-Dichloroethane
 Concen: 2.502 ug/l
 RT: 6.22 min Scan# 708
 Delta R.T. 0.00 min
 Lab File: VW009043.D
 Acq: 07 Mar 2019 16:48

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Resp	Lower	Upper
63	100	12708		
98	7.2		3.4	10.2
100	5.4		2.1	6.2

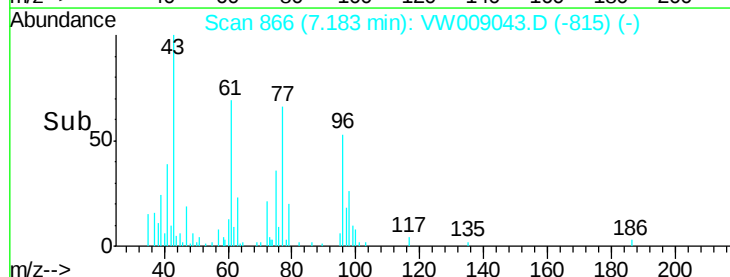
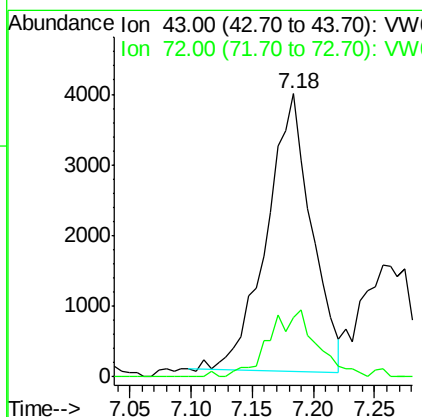
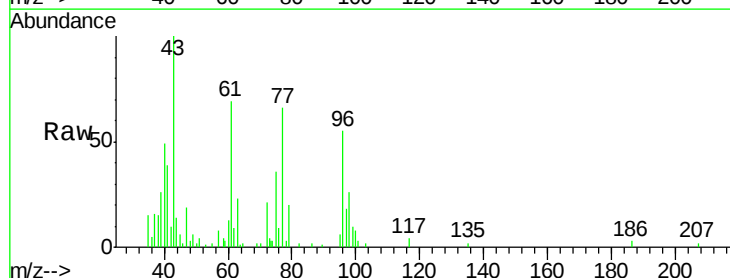
Manual Integrations
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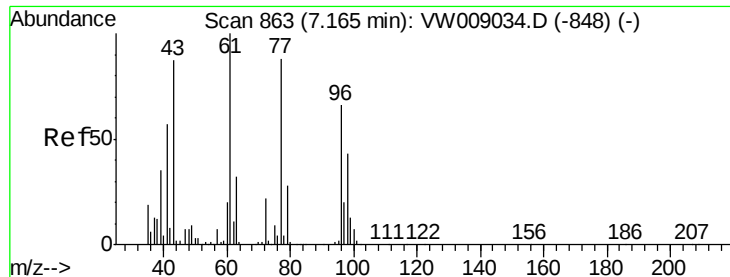
MMDadoda
 3/8/2019 12:06:20 PM



#25
 2-Butanone
 Concen: 11.487 ug/l
 RT: 7.18 min Scan# 866
 Delta R.T. 0.01 min
 Lab File: VW009043.D
 Acq: 07 Mar 2019 16:48

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	10017		
72	21.8		20.0	30.0





#26

2,2-Dichloropropane

Concen: 2.701 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 77 Resp: 12467

Ion Ratio Lower Upper

77 100

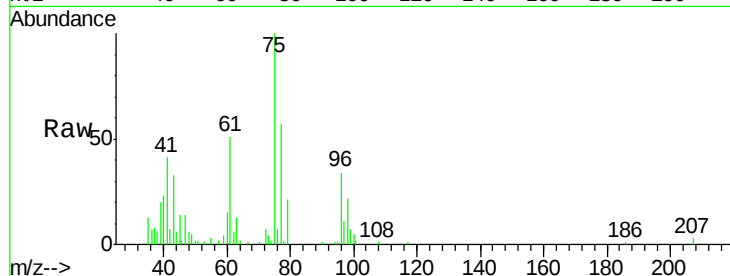
97 20.8 10.9 32.9

Manual Integrations

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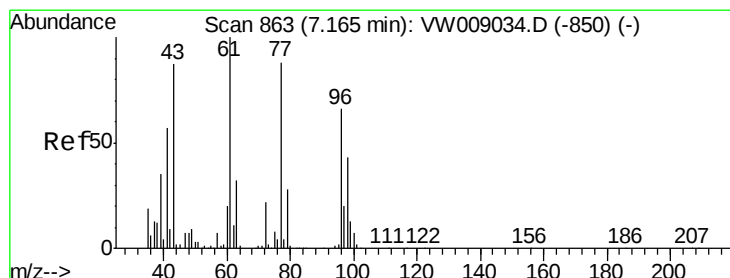
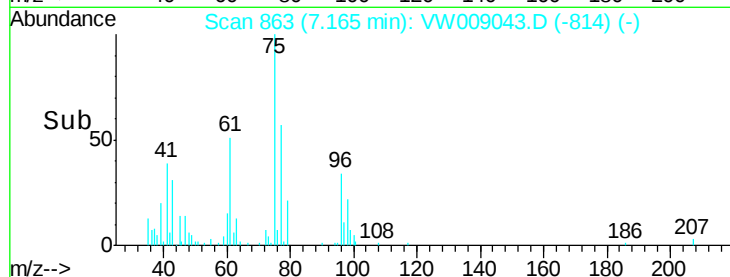
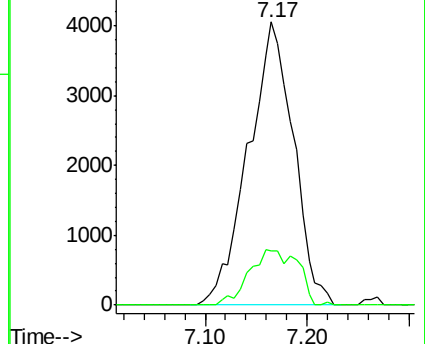
MMDadoda

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Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW



#27

cis-1,2-Dichloroethene

Concen: 2.332 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

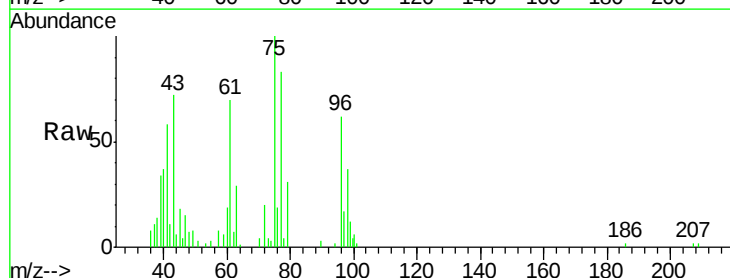
Tgt Ion: 96 Resp: 7223

Ion Ratio Lower Upper

96 100

61 164.1 0.0 299.8

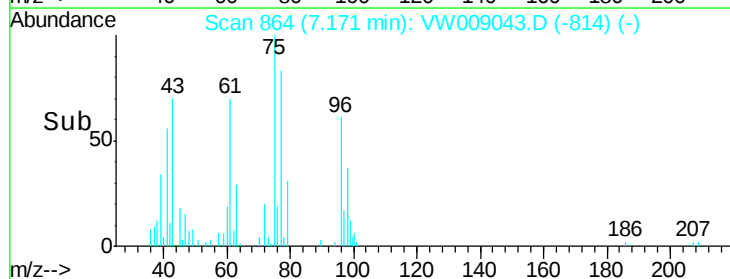
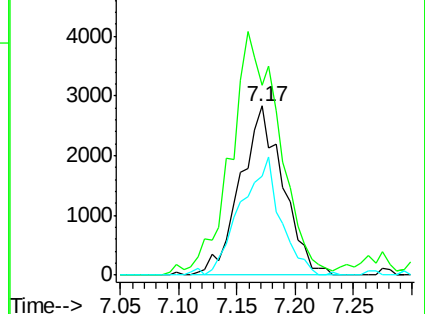
98 65.1 0.0 127.2

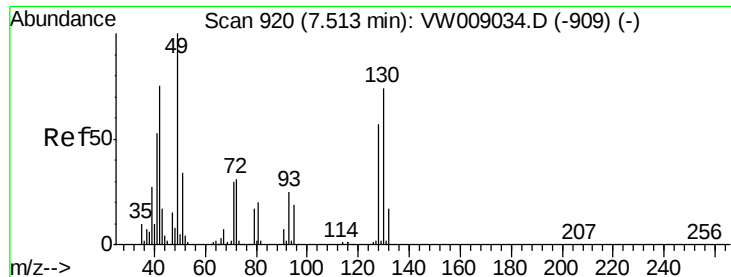


Abundance Ion 95.90 (95.60 to 96.60): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 97.90 (97.60 to 98.60): VW





#28

Bromochloromethane

Concen: 2.507 ug/l

RT: 7.51 min Scan# 920

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

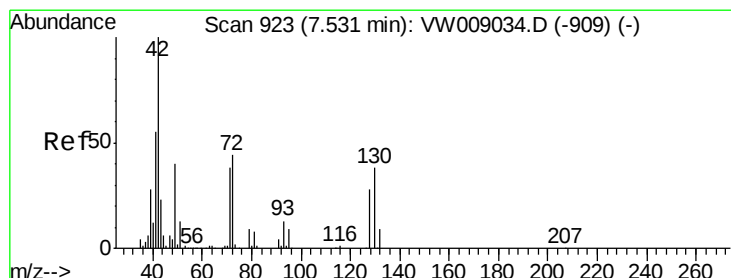
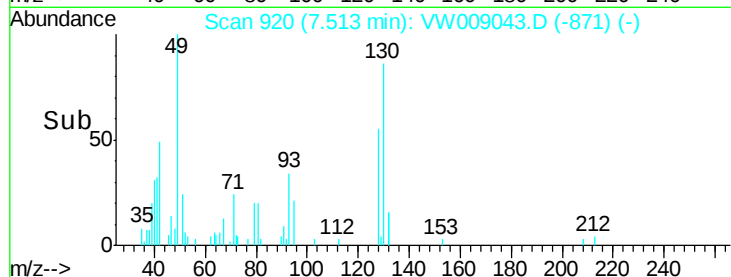
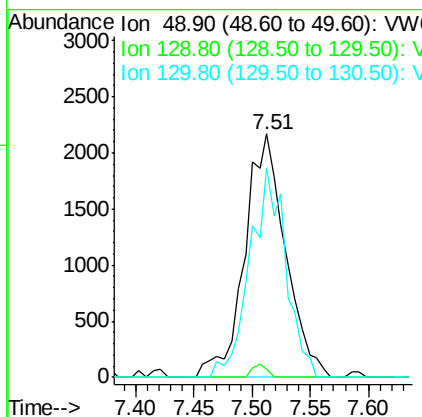
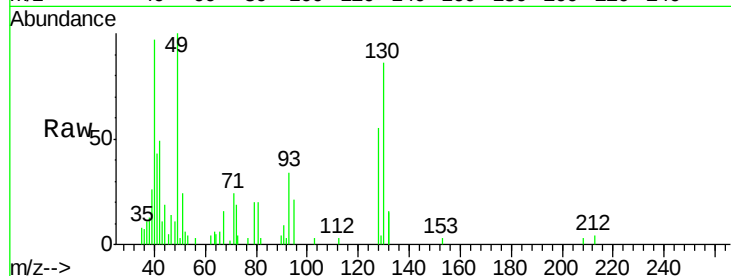
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:	49	Resp:	5296
Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.6
130	75.6	60.4	90.6

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#29

Tetrahydrofuran

Concen: 11.537 ug/l

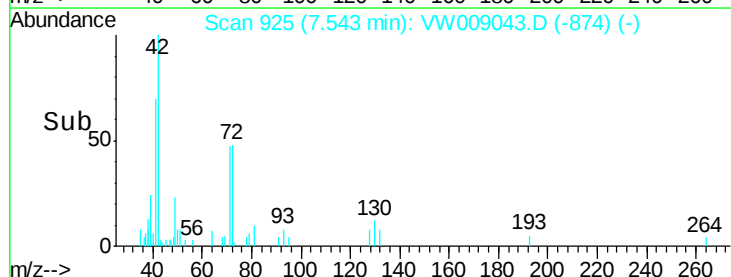
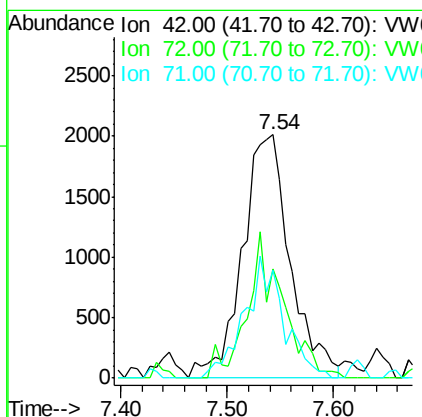
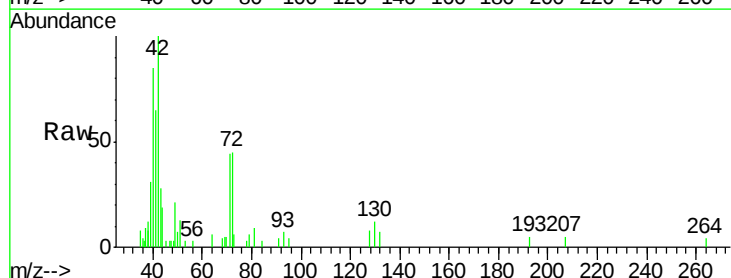
RT: 7.54 min Scan# 925

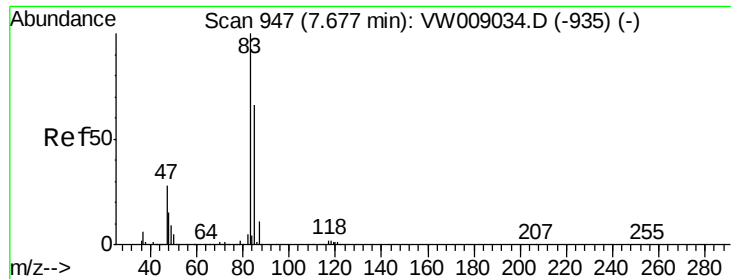
Delta R.T. 0.01 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Tgt Ion:	42	Resp:	6340
Ion	Ratio	Lower	Upper
42	100		
72	42.3	32.2	48.4
71	41.1	30.7	46.1





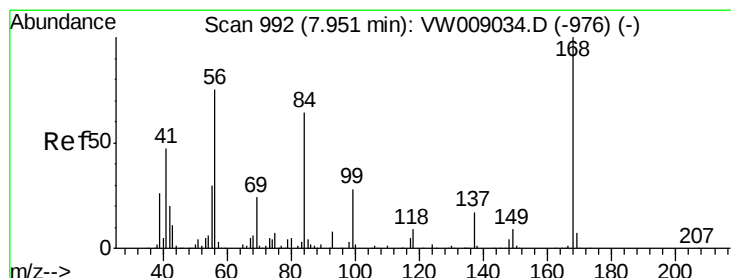
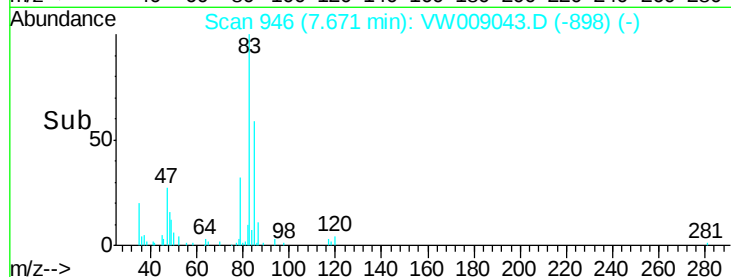
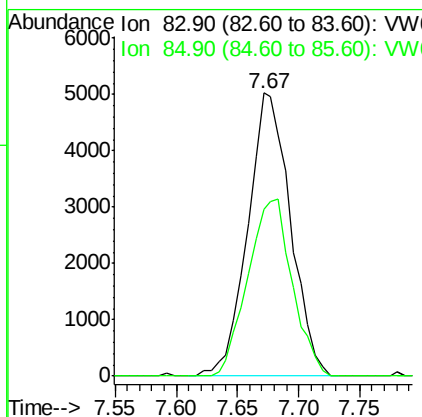
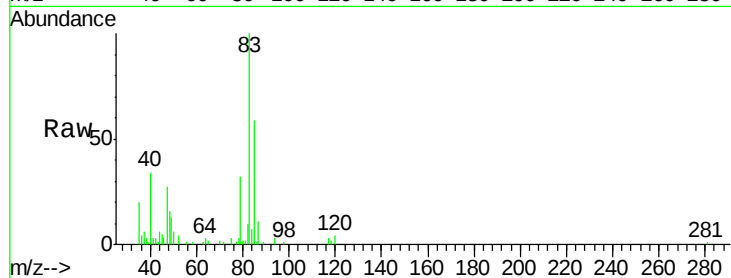
#30
Chloroform
Concen: 2.336 ug/l
RT: 7.67 min Scan# 946
Delta R.T. -0.01 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion	83	Resp	12212
Ion Ratio	100	Lower	Upper
85	58.9	53.0	79.6

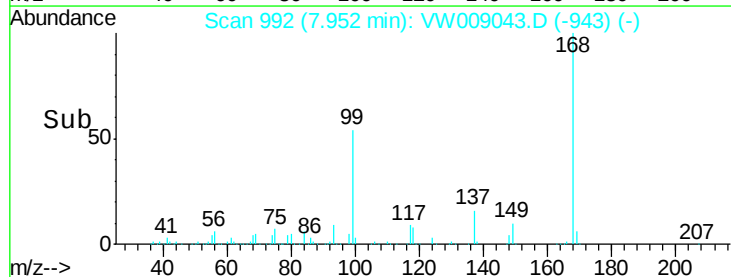
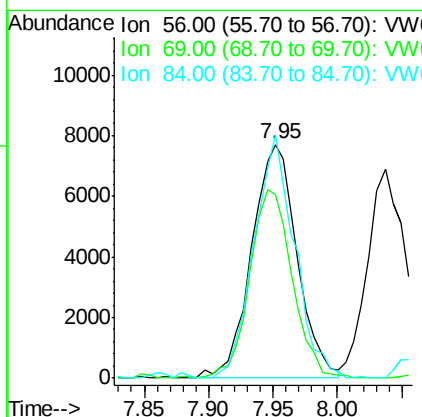
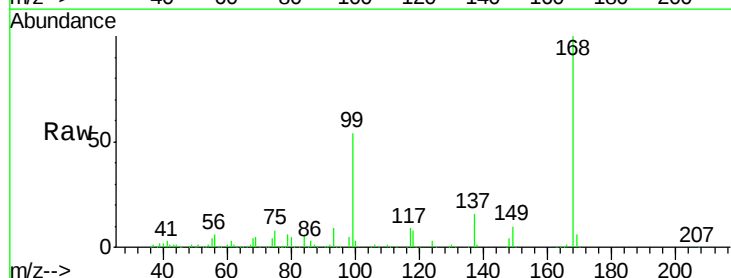
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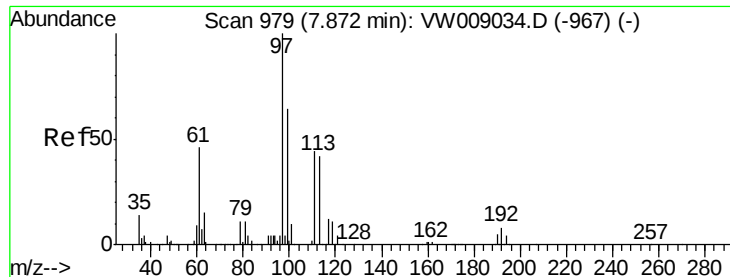
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#31
Cyclohexane
Concen: 3.601 ug/l
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Tgt Ion	56	Resp	18777
Ion Ratio	100	Lower	Upper
69	78.0	25.5	38.3#
84	103.1	68.6	103.0#





#32

1,1,1-Trichloroethane

Concen: 2.523 ug/l

RT: 7.87 min Scan# 979

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

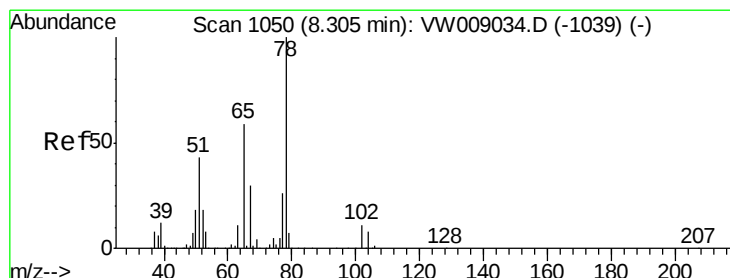
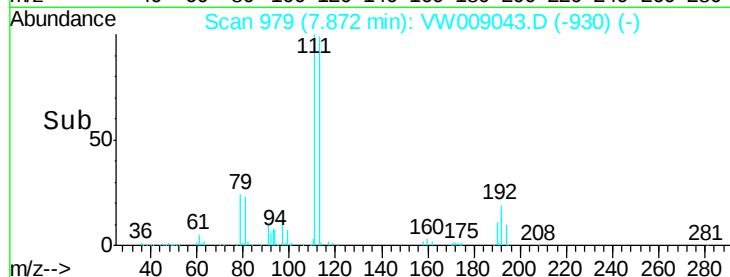
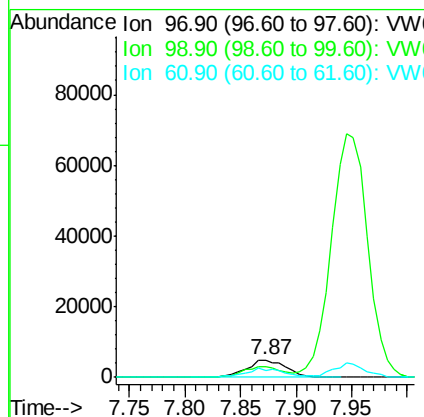
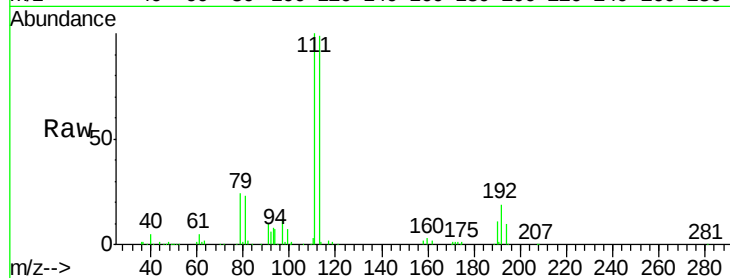
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:	97	Resp:	12174
Ion	Ratio	Lower	Upper
97	100		
99	59.4	51.8	77.8
61	49.3	37.3	55.9

Manual Integrations
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#33

1,2-Dichloroethane-d4

Concen: 53.370 ug/l

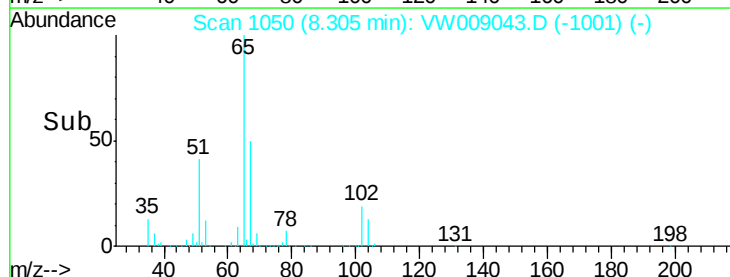
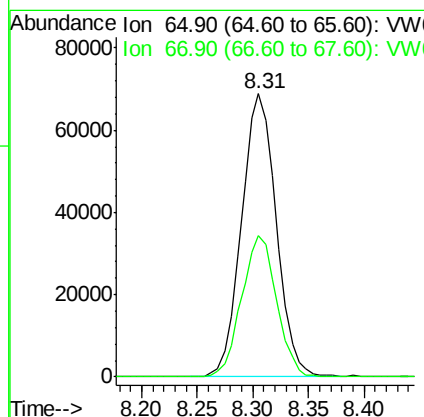
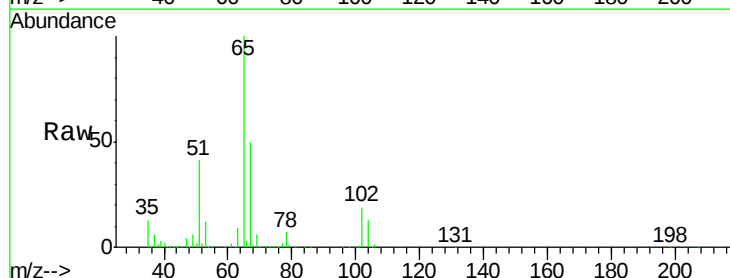
RT: 8.31 min Scan# 1050

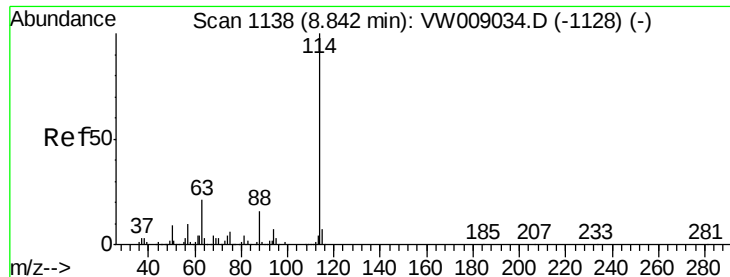
Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Tgt Ion:	65	Resp:	149231
Ion	Ratio	Lower	Upper
65	100		
67	50.1	0.0	103.0





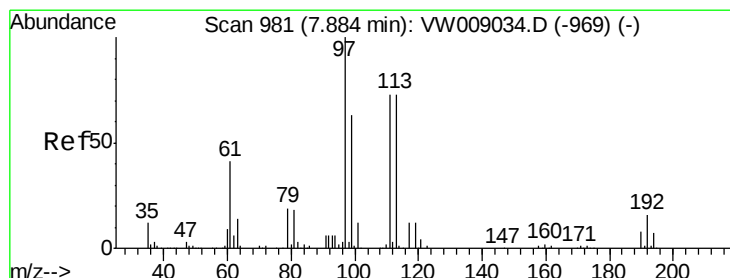
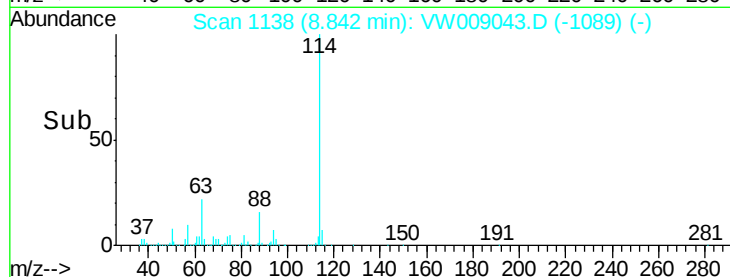
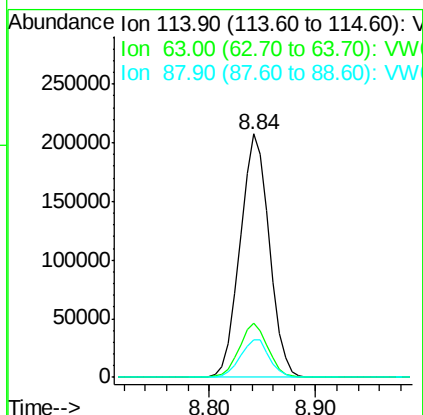
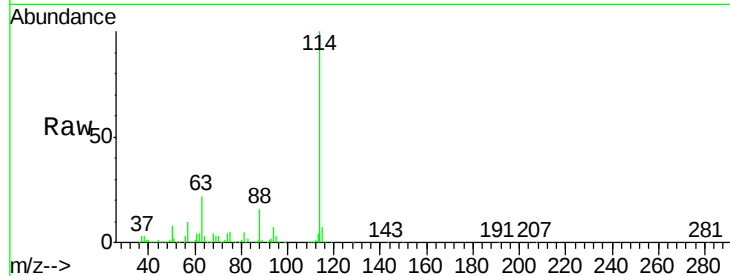
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.84 min Scan# 1138
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Resp Lower	Upper
114	100		
63	22.3	0.0	41.2
88	15.6	0.0	31.2

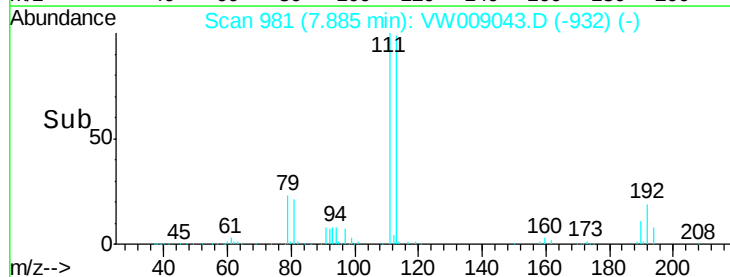
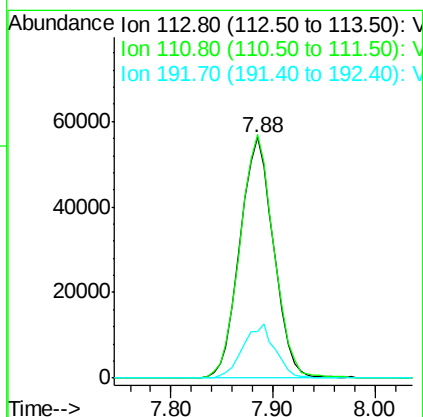
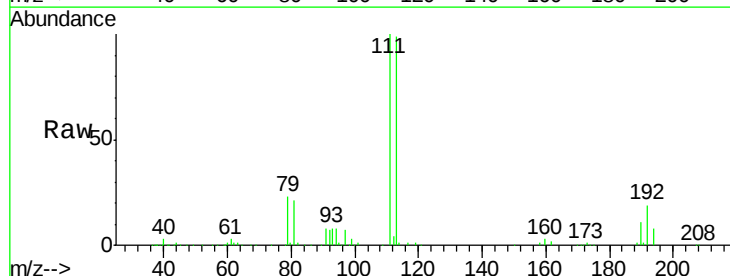
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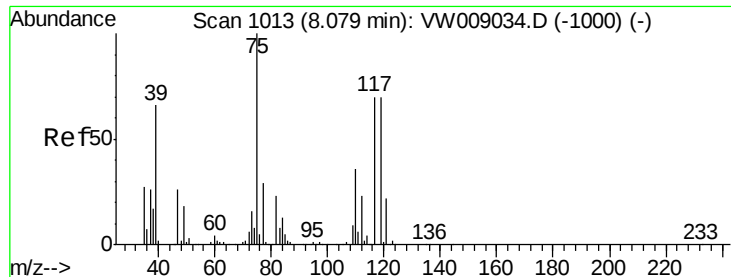
MMDadoda
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#35
Dibromofluoromethane
Concen: 53.716 ug/l
RT: 7.88 min Scan# 981
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Tgt Ion	Ratio	Resp Lower	Upper
113	100		
111	101.7	81.0	121.4
192	21.4	17.1	25.7





#36

1,1-Dichloropropene

Concen: 2.642 ug/l

RT: 8.08 min Scan# 1013

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

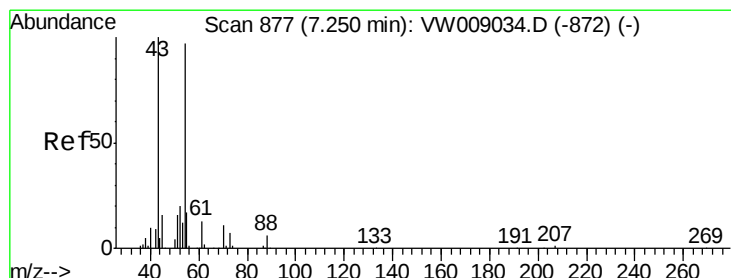
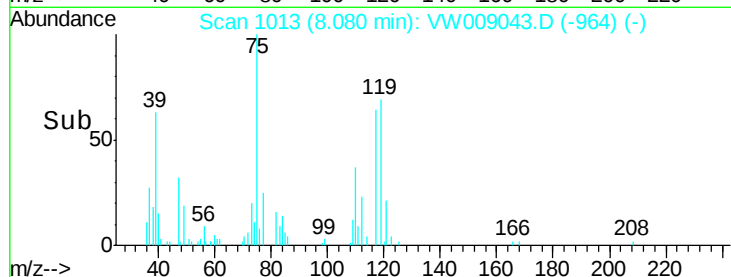
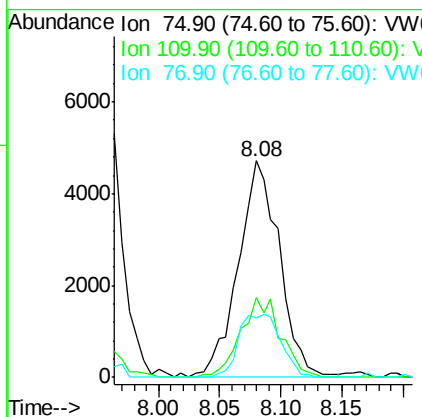
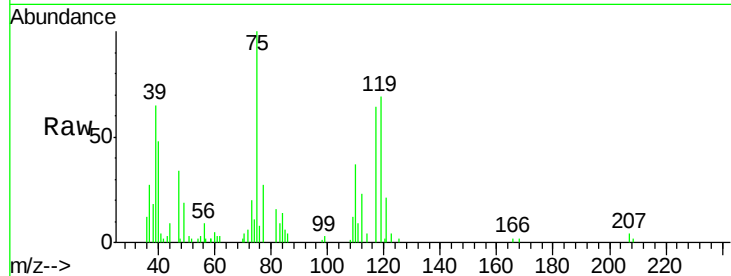
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:	75	Resp:	11039
Ion Ratio	Lower	Upper	
75	100		
110	35.9	17.6	52.9
77	29.9	25.1	37.7

Manual Integrations
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#37

Ethyl Acetate

Concen: 2.234 ug/l

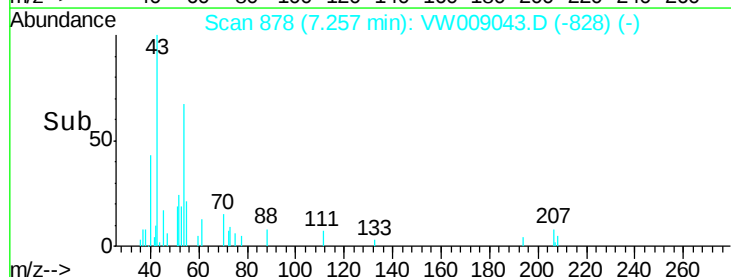
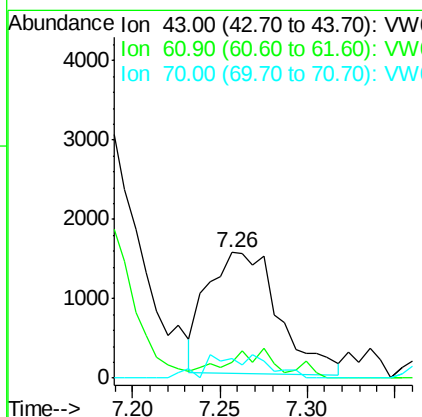
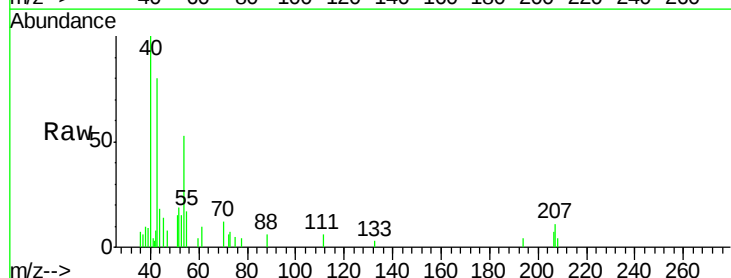
RT: 7.26 min Scan# 878

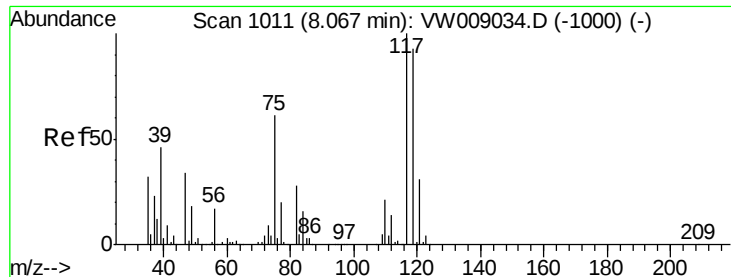
Delta R.T. 0.01 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Tgt Ion:	43	Resp:	4383
Ion Ratio	Lower	Upper	
43	100		
61	0.0	9.8	14.6#
70	9.2	7.2	10.8





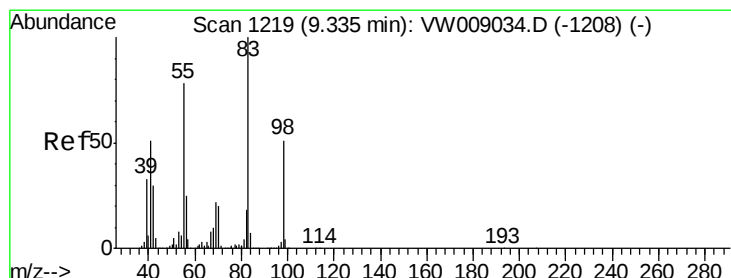
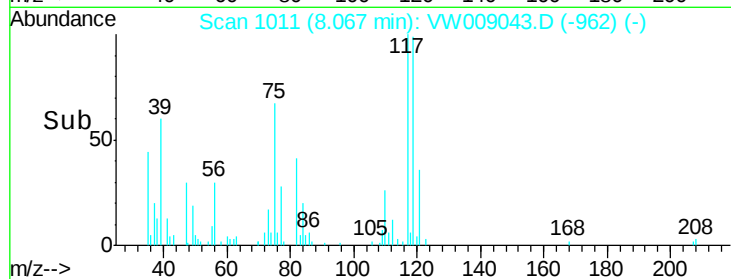
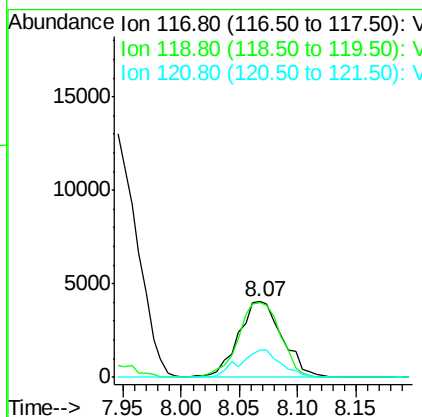
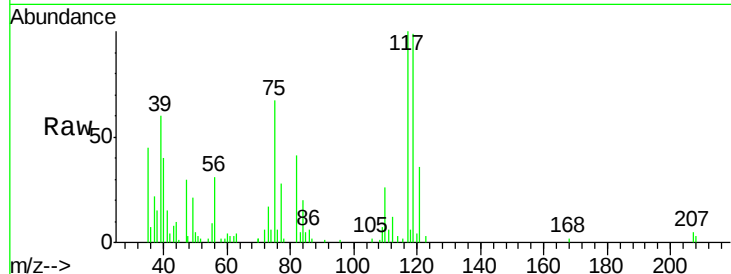
#38
Carbon Tetrachloride
Concen: 2.479 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Resp	Lower	Upper
117	100	10696		
119	99.4	74.6	112.0	
121	36.5	24.7	37.1	

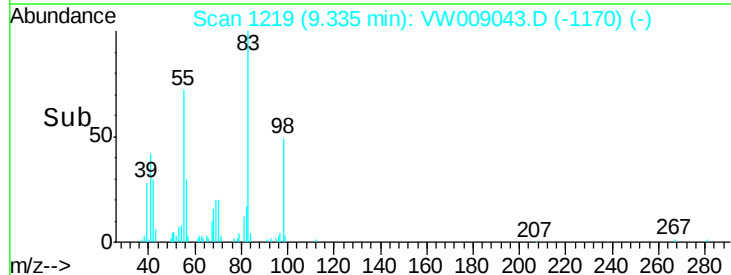
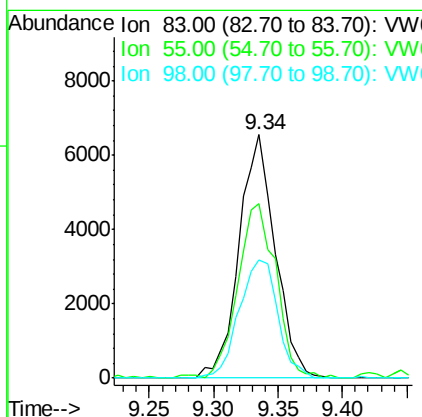
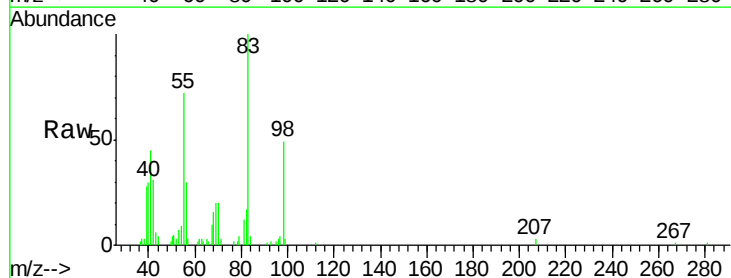
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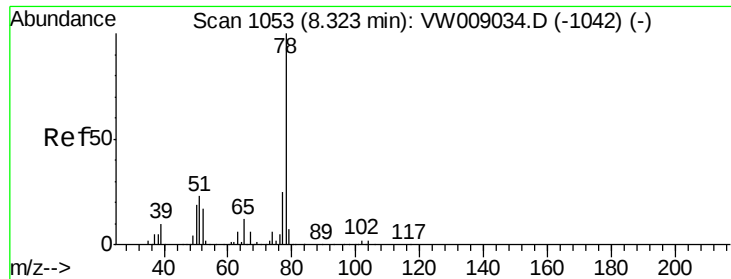
MMDadoda
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#39
Methylcyclohexane
Concen: 2.559 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	12733		
55	71.8	62.7	94.1	
98	48.6	40.8	61.2	





#40

Benzene

Concen: 2.392 ug/l

RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 78 Resp: 26671

Ion Ratio Lower Upper

78 100

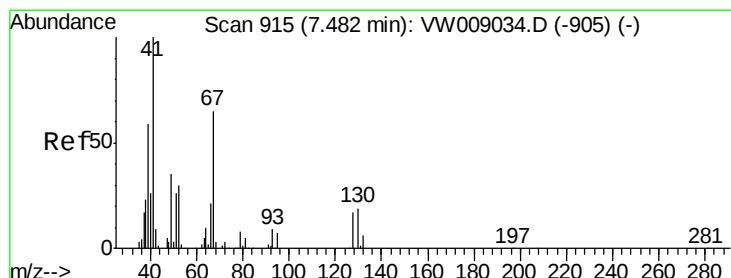
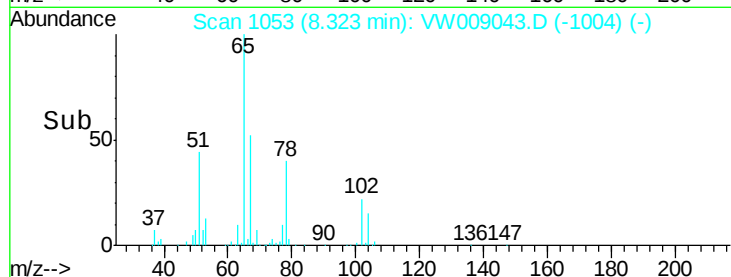
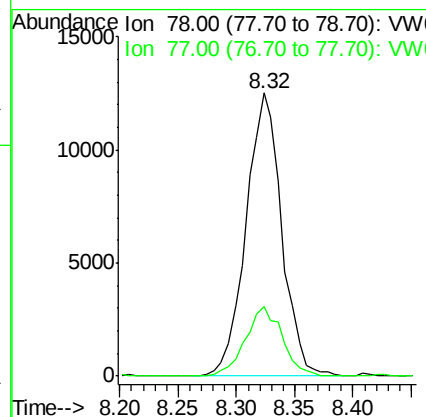
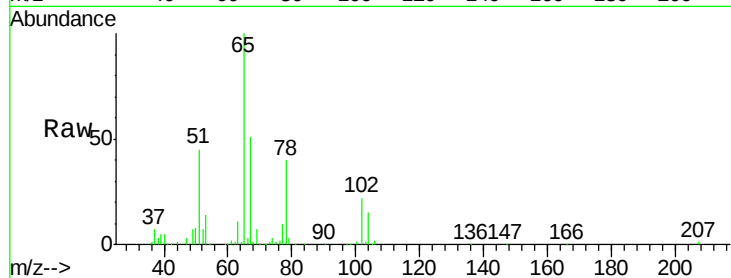
77 24.5 20.2 30.4

Manual Integrations

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3/8/2019 12:06:20 PM



#41

Methacrylonitrile

Concen: 1.503 ug/l

RT: 7.48 min Scan# 915

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Tgt Ion: 41 Resp: 1638

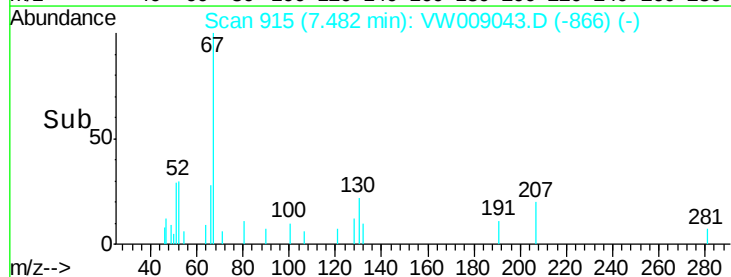
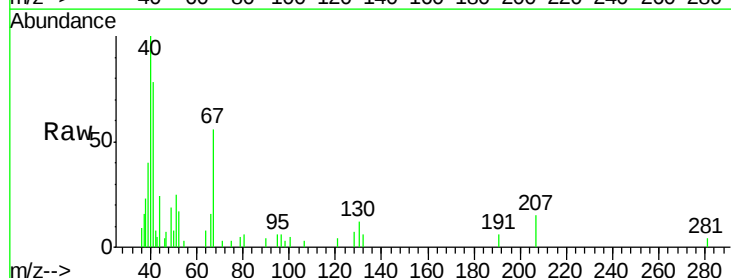
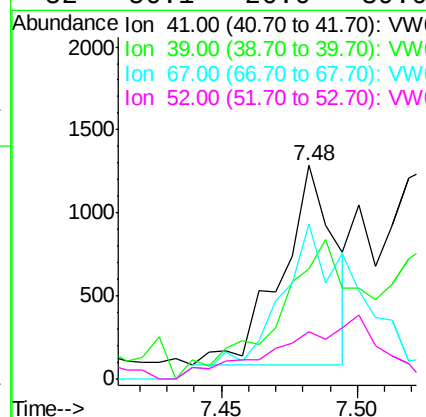
Ion Ratio Lower Upper

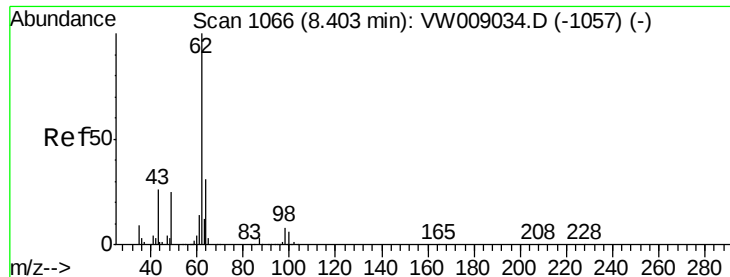
41 100

39 86.1 53.6 80.4#

67 127.0 57.6 86.4#

52 56.1 26.0 39.0#





#42

1,2-Dichloroethane

Concen: 2.533 ug/l

RT: 8.40 min Scan# 1065

Delta R.T. -0.01 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

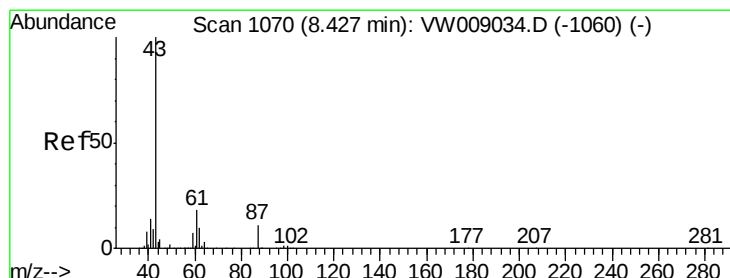
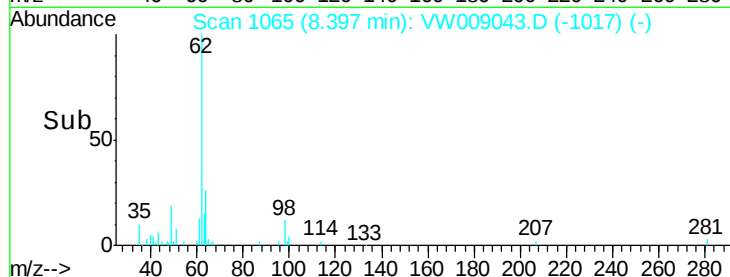
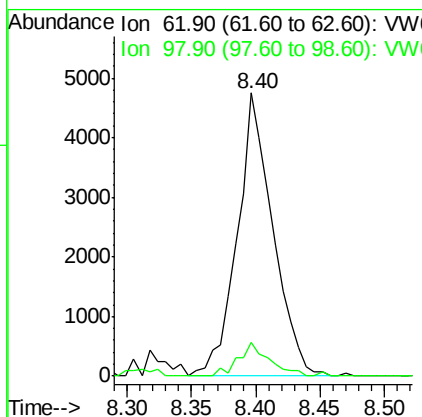
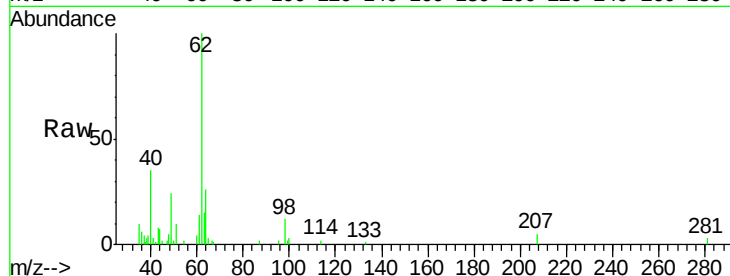
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:	62	Resp:	9121
Ion Ratio	Lower	Upper	
62	100		
98	10.3	0.0	17.6

Manual Integrations
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3/8/2019 12:06:20 PM



#43

Isopropyl Acetate

Concen: 2.495 ug/l

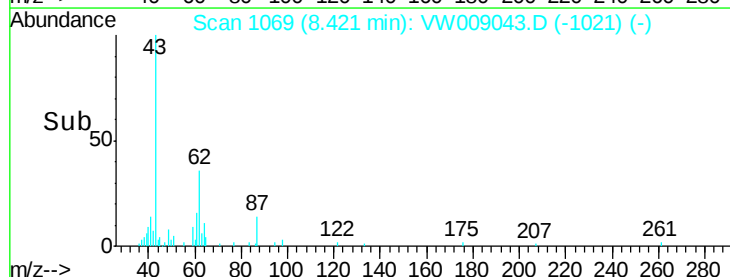
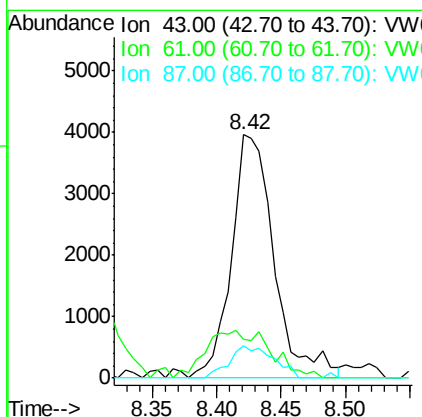
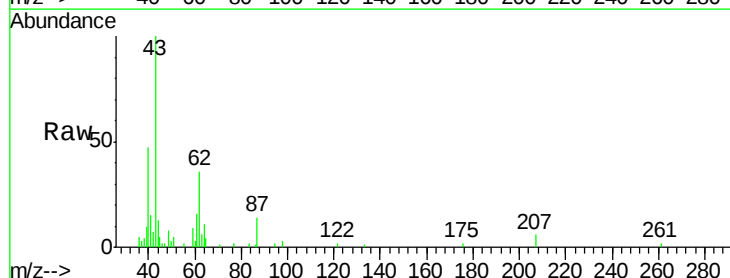
RT: 8.42 min Scan# 1069

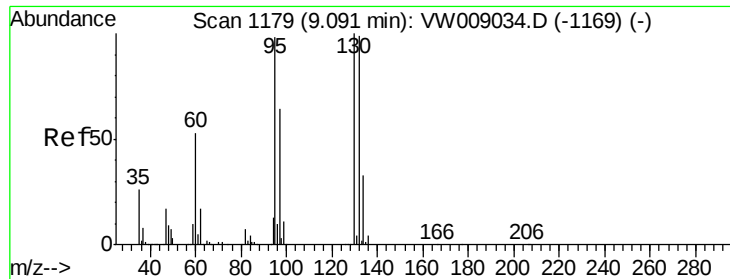
Delta R.T. -0.01 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Tgt Ion:	43	Resp:	9119
Ion Ratio	Lower	Upper	
43	100		
61	29.8	22.8	34.2
87	13.7	9.4	14.2





#44

Trichloroethene

Concen: 2.331 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:130 Resp: 7287

Ion Ratio Lower Upper

130 100

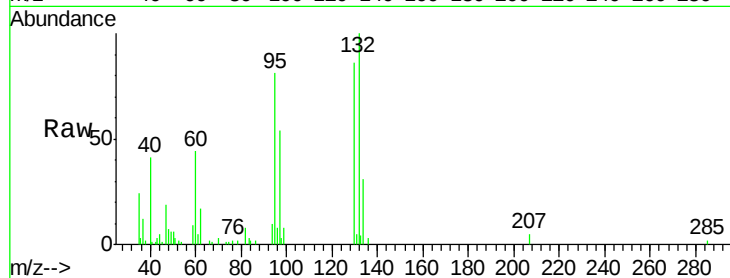
95 94.2 0.0 197.0

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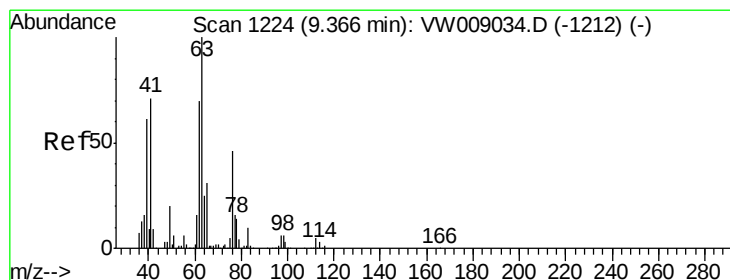
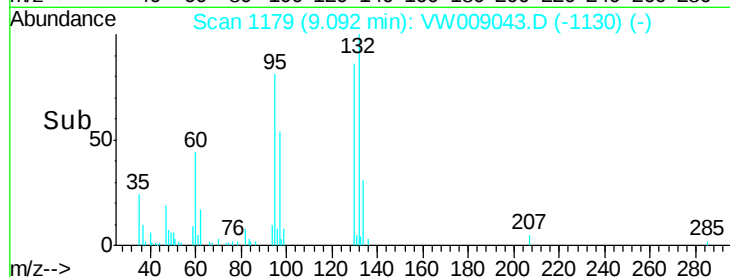
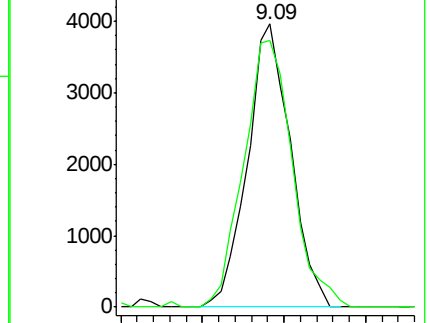
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Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW



#45

1,2-Dichloropropane

Concen: 2.433 ug/l

RT: 9.37 min Scan# 1225

Delta R.T. 0.01 min

Lab File: VW009043.D

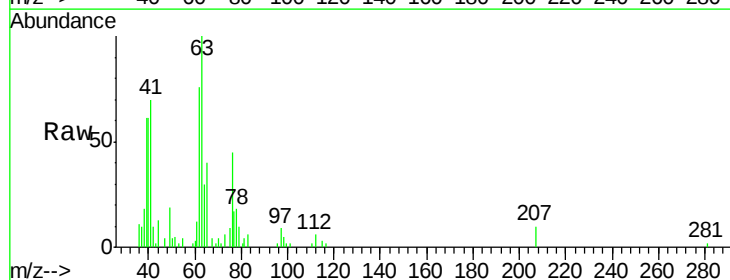
Acq: 07 Mar 2019 16:48

Tgt Ion: 63 Resp: 6795

Ion Ratio Lower Upper

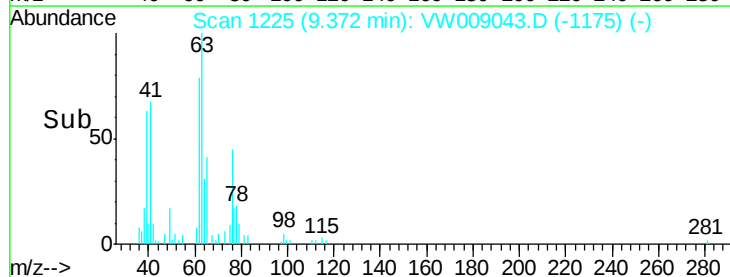
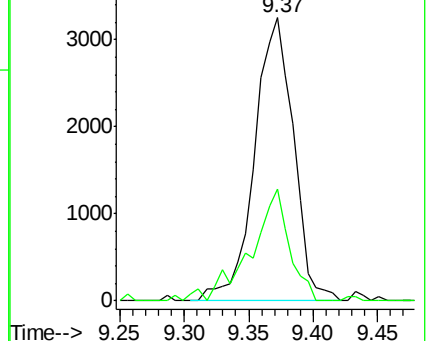
63 100

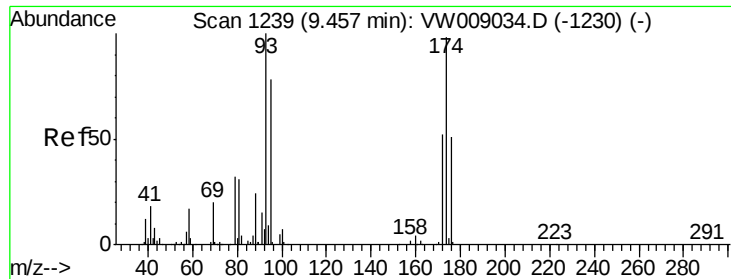
65 39.7 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 64.90 (64.60 to 65.60): VW





#46

Dibromomethane

Concen: 2.371 ug/l

RT: 9.45 min Scan# 1238

Delta R.T. -0.01 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

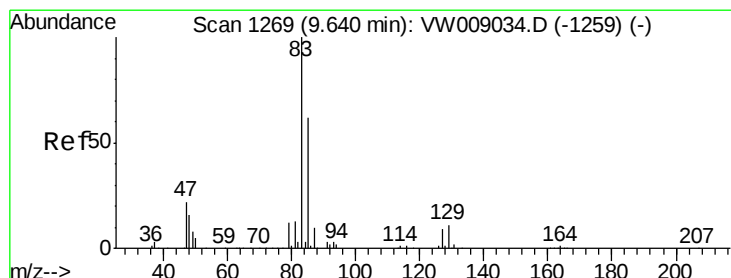
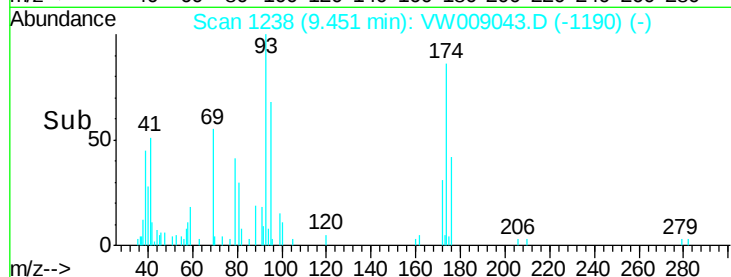
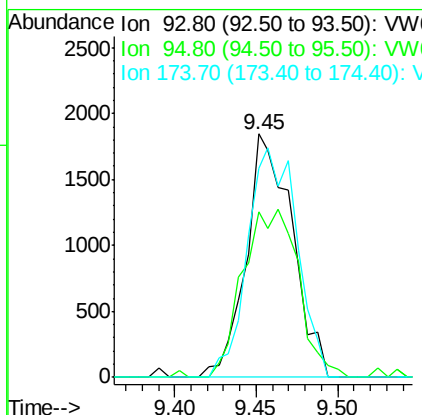
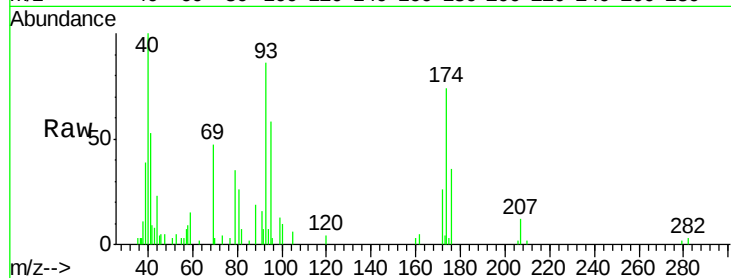
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:	93	Resp:	3617
Ion	Ratio	Lower	Upper
93	100		
95	83.2	65.0	97.6
174	101.4	81.8	122.6

Manual Integrations
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#47

Bromodichloromethane

Concen: 2.304 ug/l

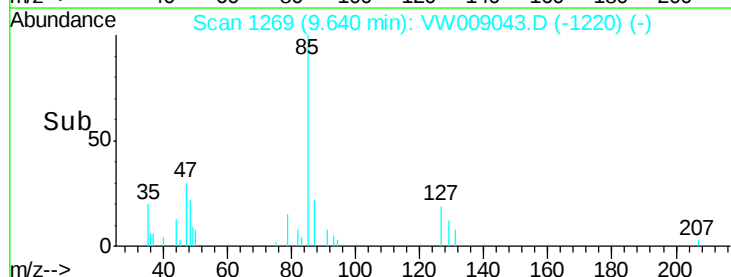
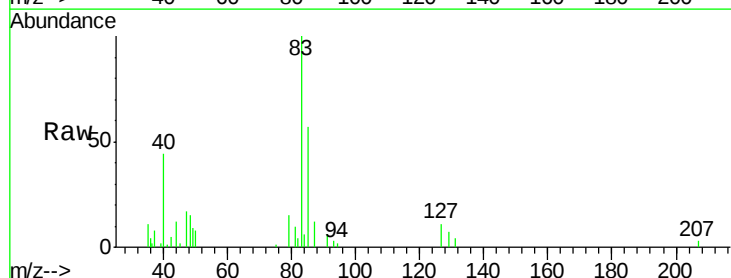
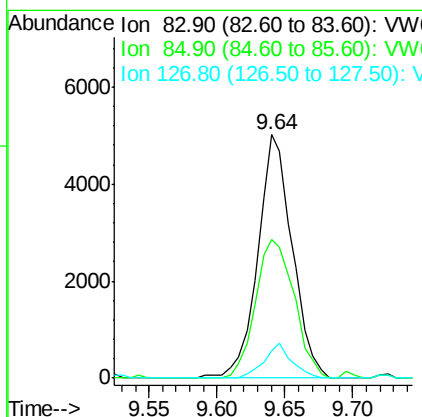
RT: 9.64 min Scan# 1269

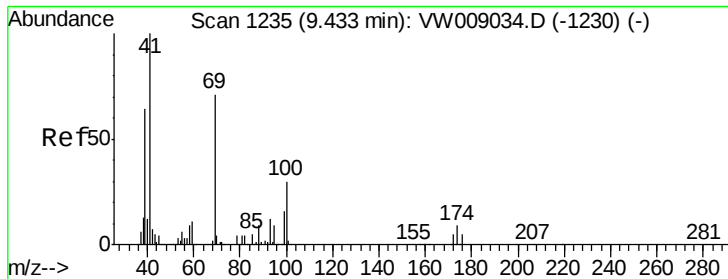
Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Tgt Ion:	83	Resp:	8895
Ion	Ratio	Lower	Upper
83	100		
85	56.9	49.9	74.9
127	11.0	7.1	10.7#





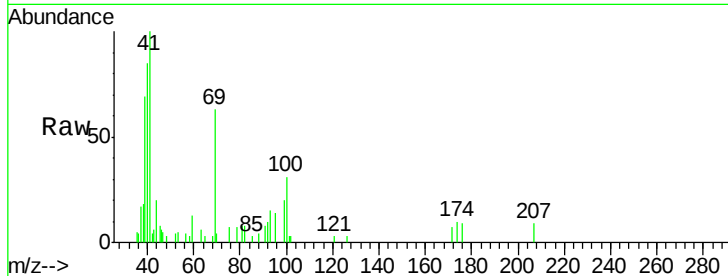
#48
Methvl methacrylate
Concen: 2.036 ug/l
RT: 9.43 min Scan# 1235
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
41	100		
69	90.8	59.1	88.7#
39	56.4	48.9	73.3

Manual Integrations
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3/8/2019 12:06:20 PM

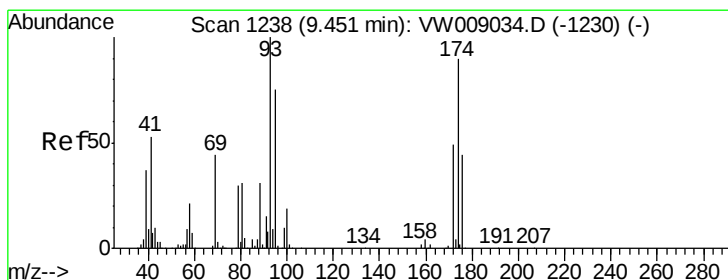
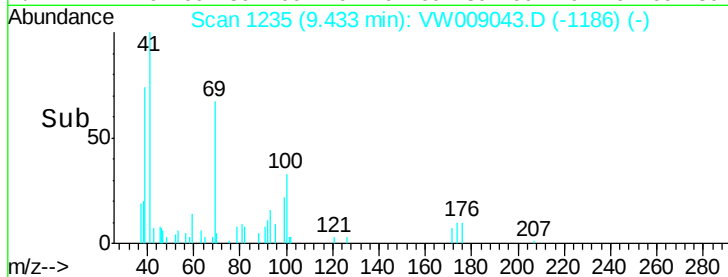
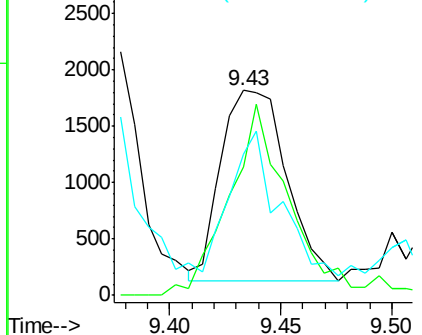


Abundance

Ion 41.00 (40.70 to 41.70): VW

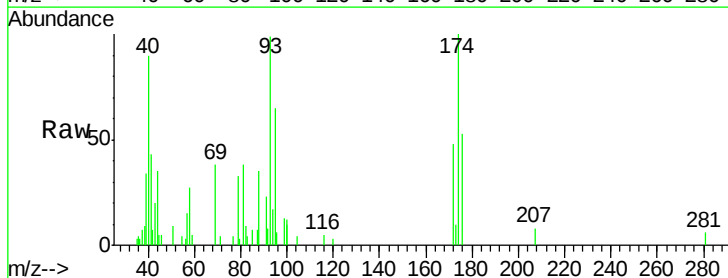
Ion 69.00 (68.70 to 69.70): VW

Ion 39.00 (38.70 to 39.70): VW



#49
1,4-Dioxane
Concen: 53.518 ug/l
RT: 9.46 min Scan# 1239
Delta R.T. 0.01 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Tgt Ion	Ratio	Lower	Upper
88	100		
43	39.0	29.0	43.4
58	77.8	59.2	88.8

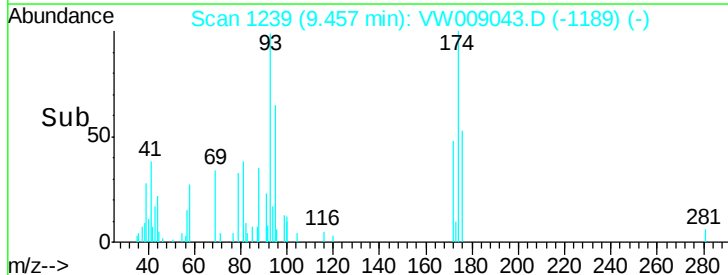
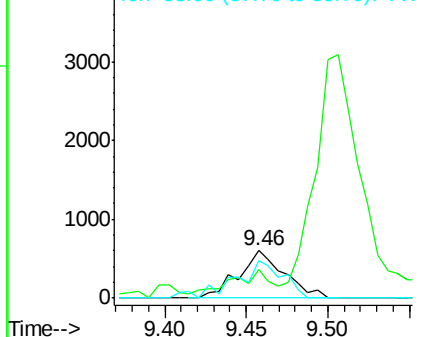


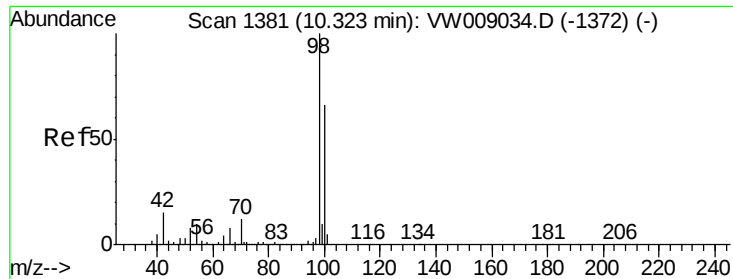
Abundance

Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





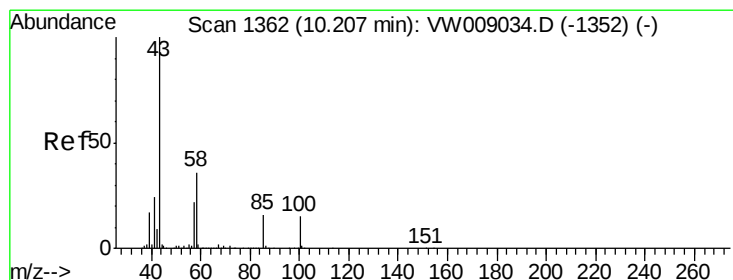
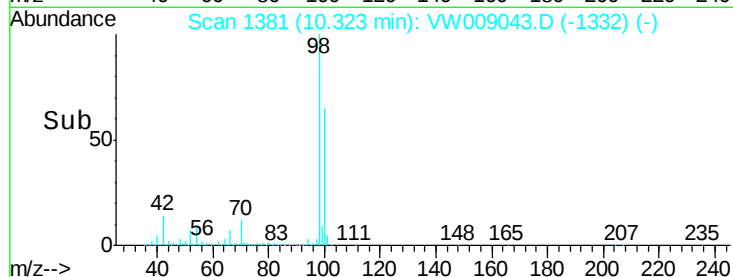
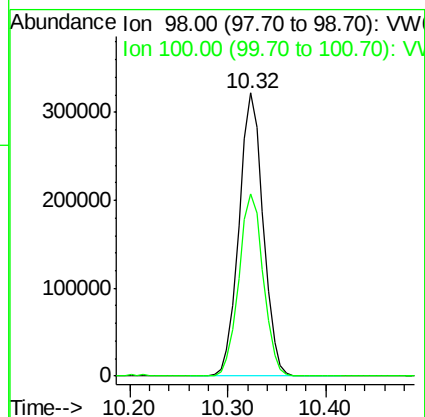
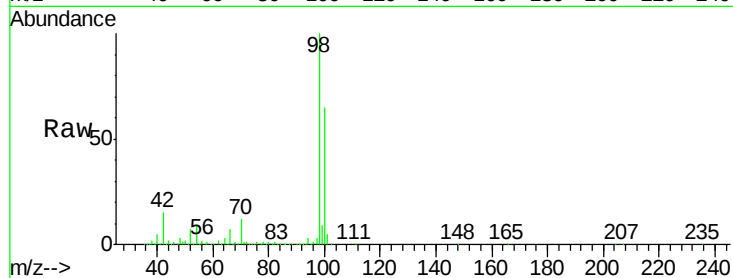
#50
Toluene-d8
Concen: 55.959 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 98 Resp: 552872
Ion Ratio Lower Upper
98 100
100 64.9 51.9 77.9

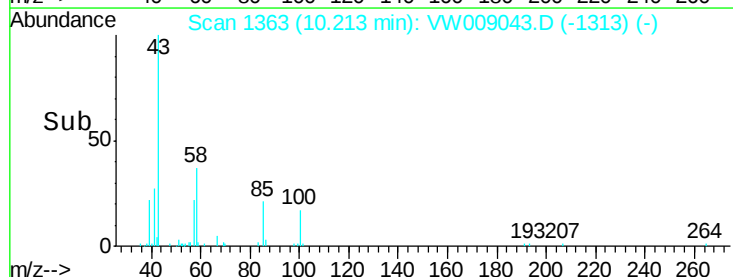
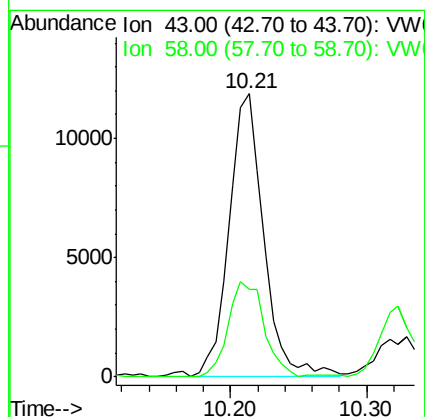
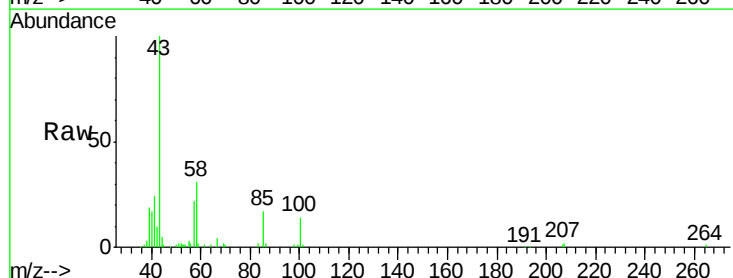
Manual Integrations
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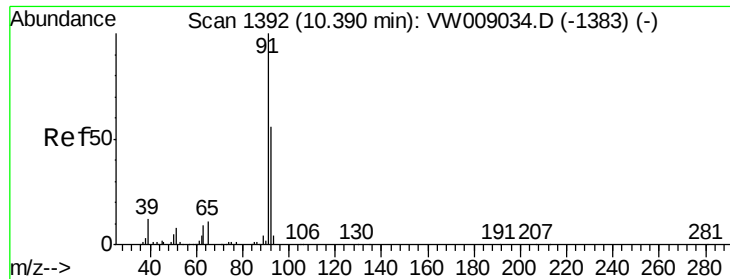
MMDadoda
3/8/2019 12:06:20 PM



#51
4-Methyl-2-Pentanone
Concen: 11.312 ug/l
RT: 10.21 min Scan# 1363
Delta R.T. 0.01 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Tgt Ion: 43 Resp: 20987
Ion Ratio Lower Upper
43 100
58 34.9 28.8 43.2





#52

Toluene

Concen: 2.438 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 92 Resp: 18439

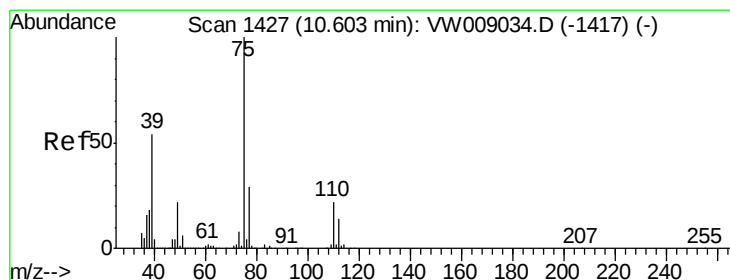
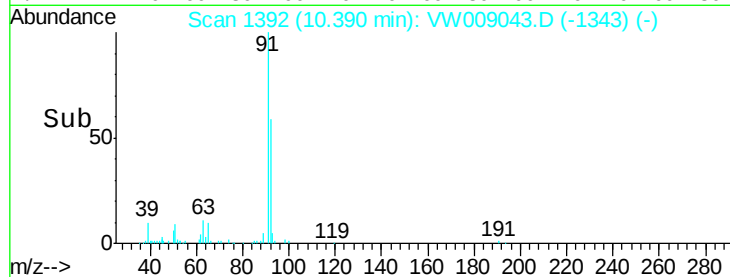
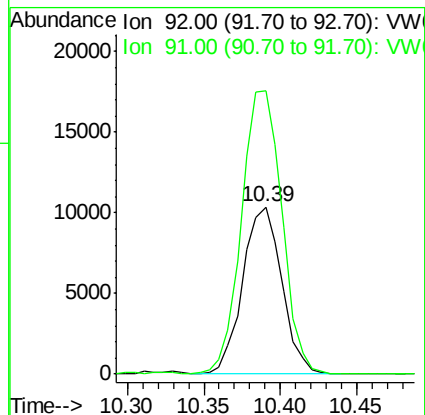
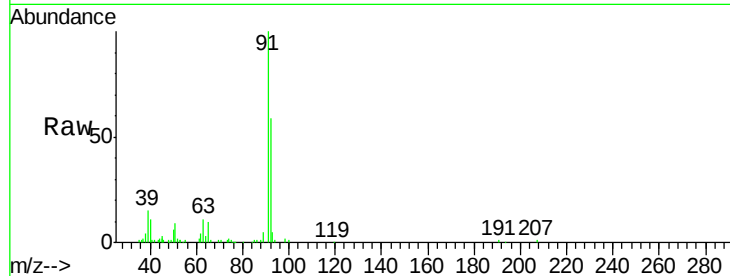
Ion Ratio Lower Upper

92 100

91 174.6 139.9 209.9

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3/8/2019 12:06:20 PM



#53

t-1,3-Dichloropropene

Concen: 2.231 ug/l

RT: 10.61 min Scan# 1428

Delta R.T. 0.01 min

Lab File: VW009043.D

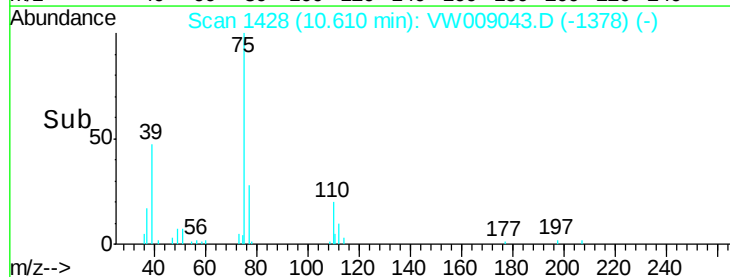
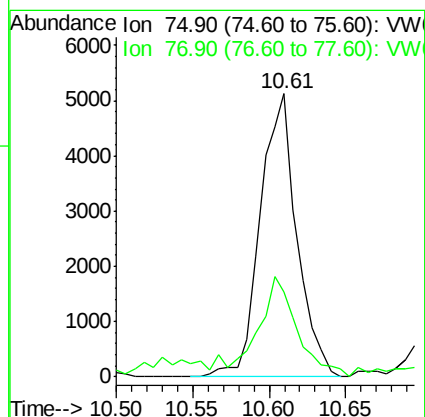
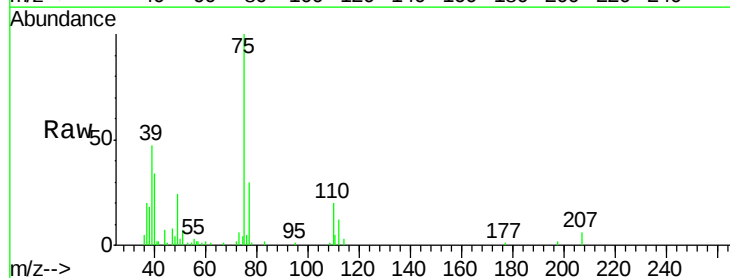
Acq: 07 Mar 2019 16:48

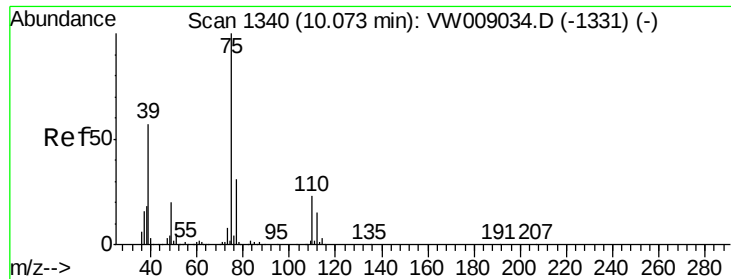
Tgt Ion: 75 Resp: 8522

Ion Ratio Lower Upper

75 100

77 27.2 23.6 35.4





#54

cis-1,3-Dichloropropene

Concen: 2.312 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

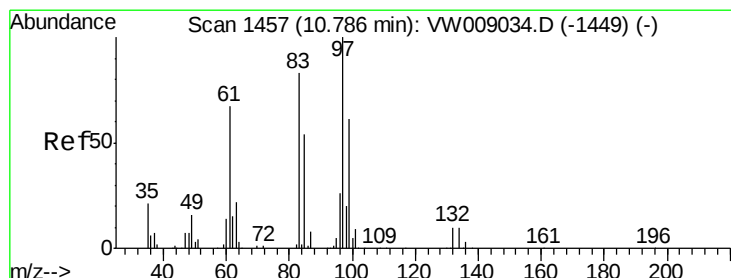
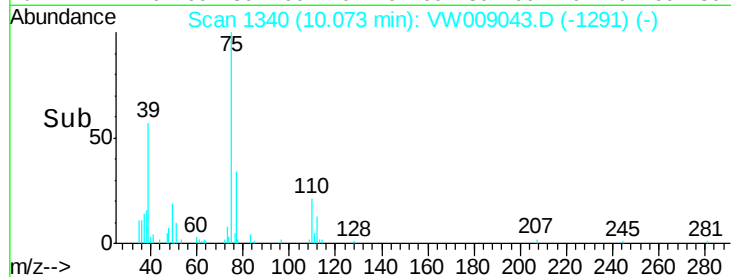
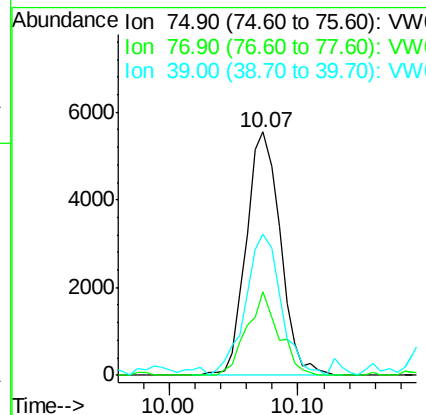
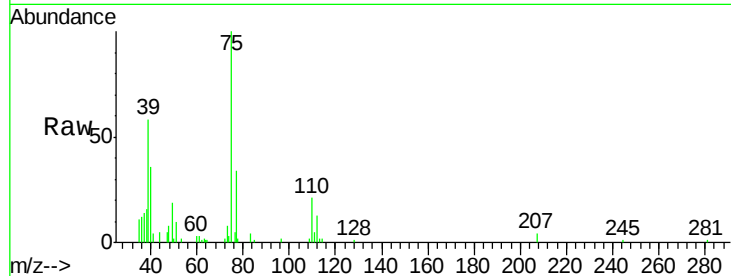
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:	75	Resp:	10145
Ion Ratio	Lower	Upper	
75	100		
77	34.2	24.6	36.8
39	55.7	45.9	68.9

Manual Integrations
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#55

1,1,2-Trichloroethane

Concen: 2.697 ug/l

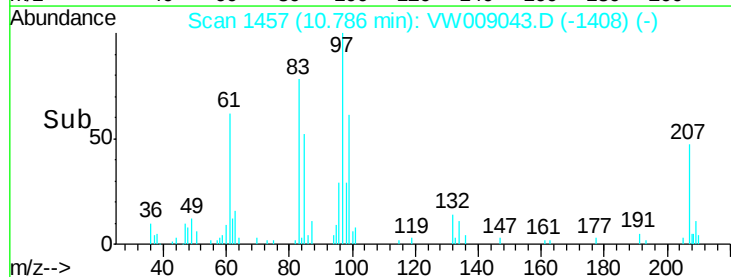
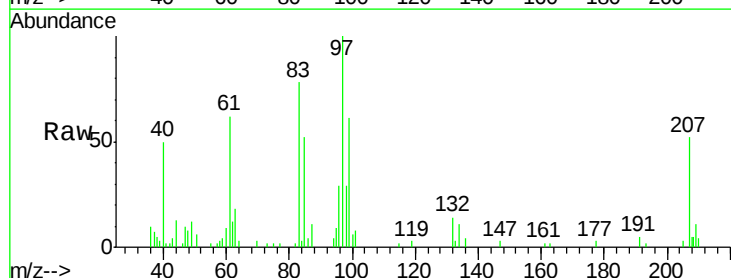
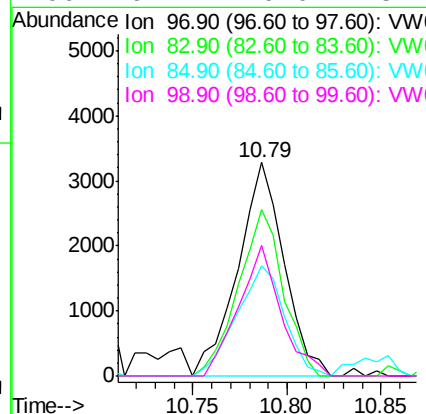
RT: 10.79 min Scan# 1457

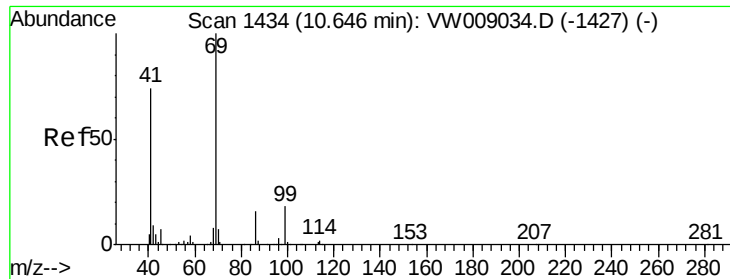
Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Tgt Ion:	97	Resp:	5575
Ion Ratio	Lower	Upper	
97	100		
83	78.1	66.2	99.2
85	51.7	43.6	65.4
99	61.4	49.0	73.4





#56

Ethyl methacrylate

Concen: 2.228 ug/l

RT: 10.65 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

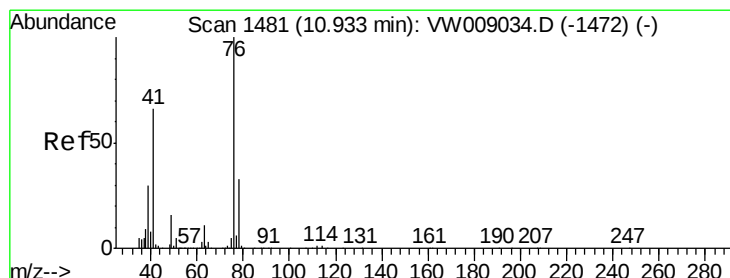
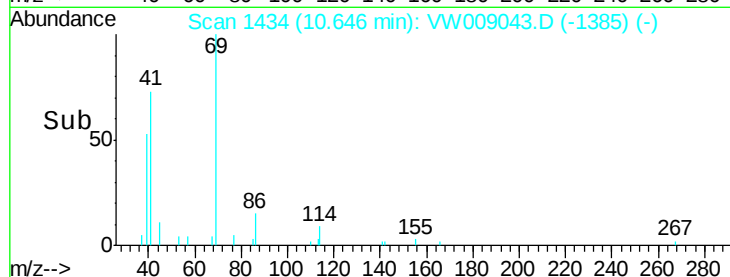
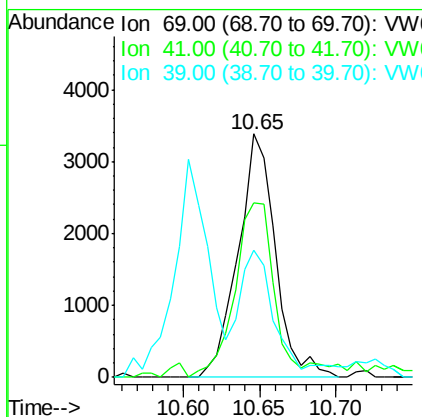
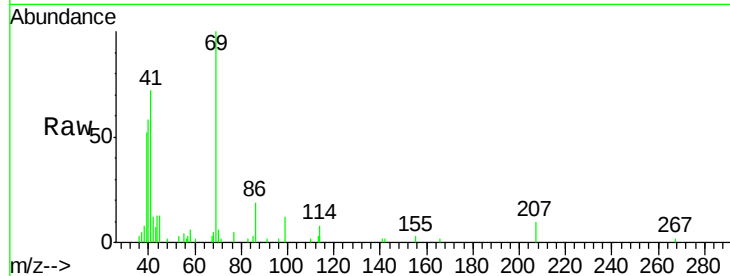
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:	69	Resp:	5716
Ion	Ratio	Lower	Upper
69	100		
41	76.4	59.4	89.2
39	48.4	38.5	57.7

Manual Integrations
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#57

1,3-Dichloropropane

Concen: 2.419 ug/l

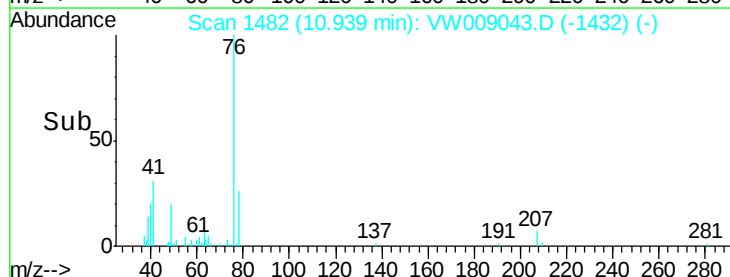
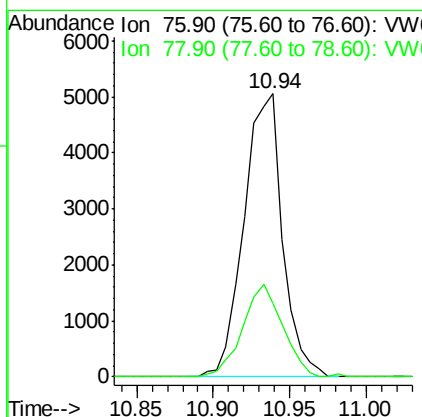
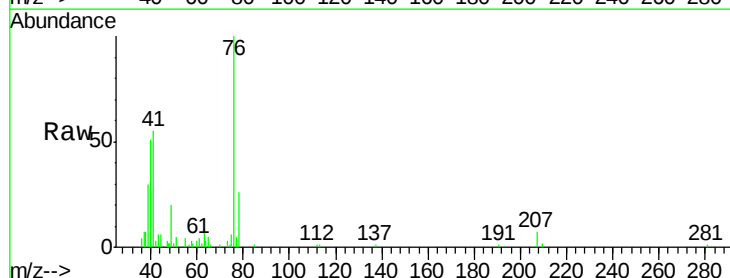
RT: 10.94 min Scan# 1482

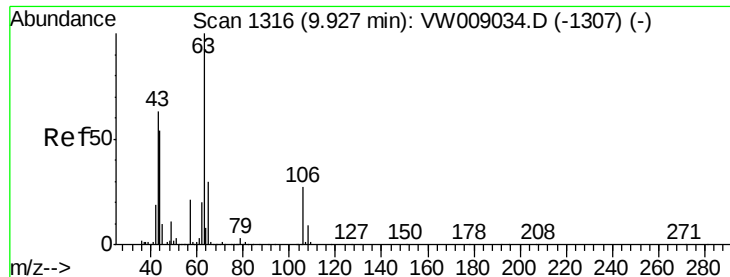
Delta R.T. 0.01 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Tgt Ion:	76	Resp:	8861
Ion	Ratio	Lower	Upper
76	100		
78	33.9	25.7	38.5





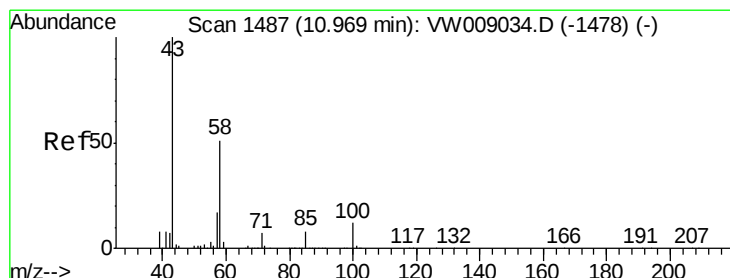
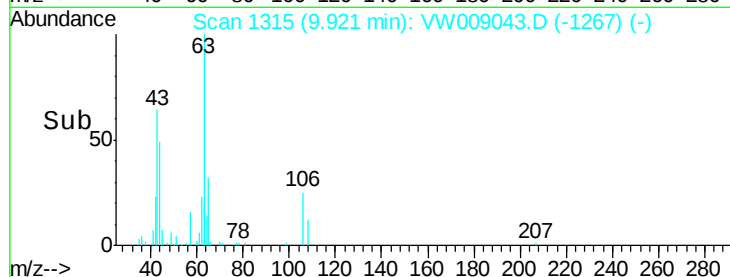
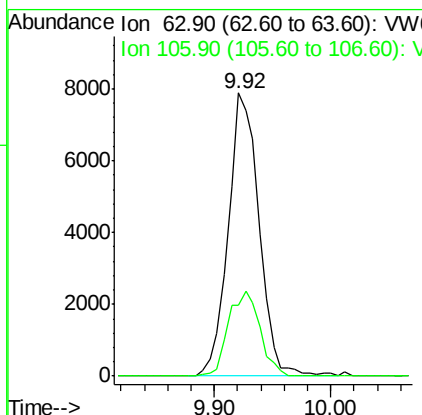
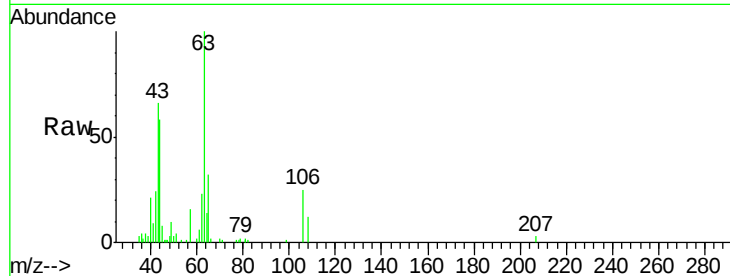
#58
2-Chloroethyl Vinyl ether
Concen: 10.918 ug/l
RT: 9.92 min Scan# 1315
Delta R.T. -0.01 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 63 Resp: 14523
Ion Ratio Lower Upper
63 100
106 30.7 23.0 34.6

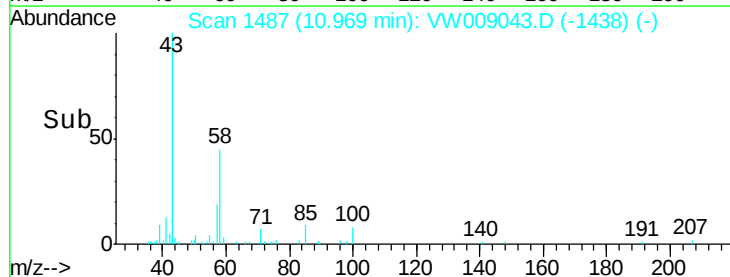
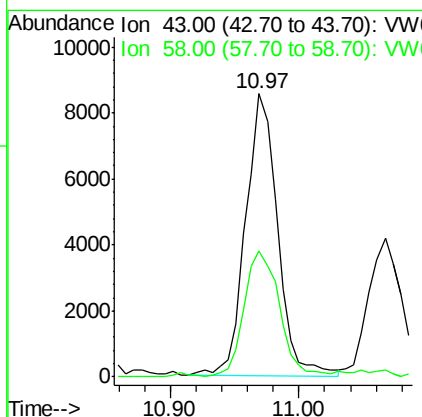
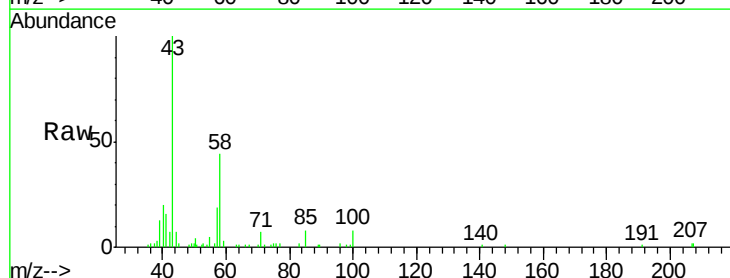
Manual Integrations
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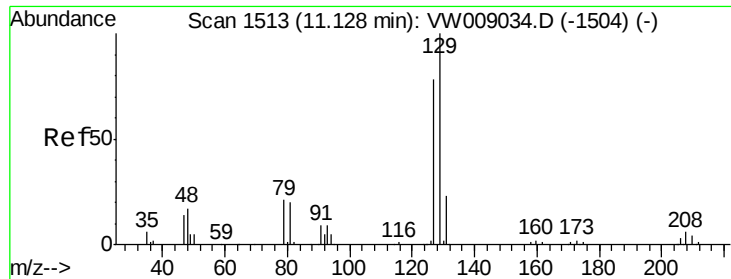
MMDadoda
3/8/2019 12:06:20 PM



#59
2-Hexanone
Concen: 11.182 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Tgt Ion: 43 Resp: 14587
Ion Ratio Lower Upper
43 100
58 49.8 25.3 75.9





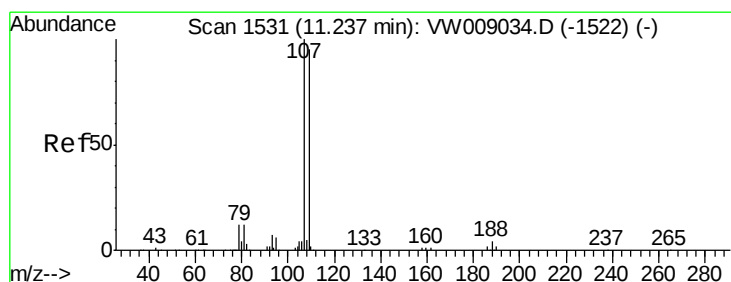
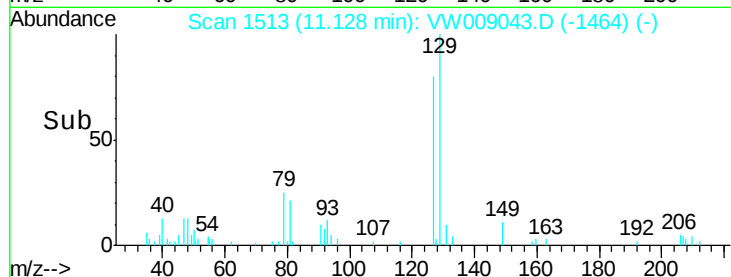
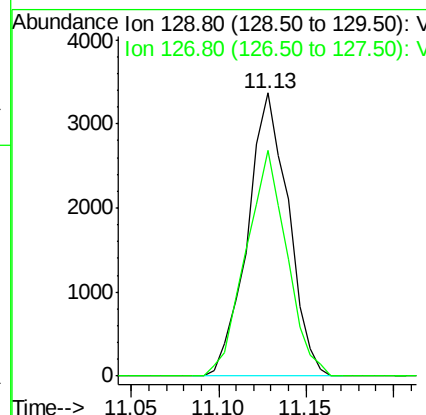
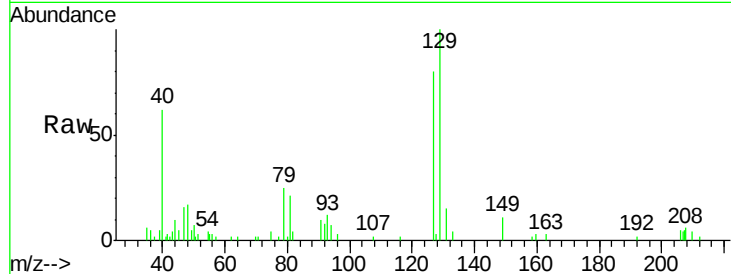
#60
Dibromochloromethane
Concen: 2.133 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion:129 Resp: 5458
Ion Ratio Lower Upper
129 100
127 80.3 38.4 115.1

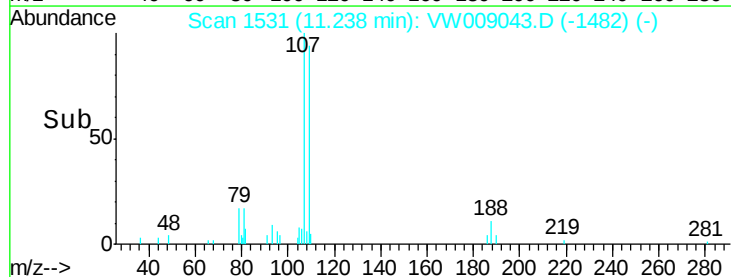
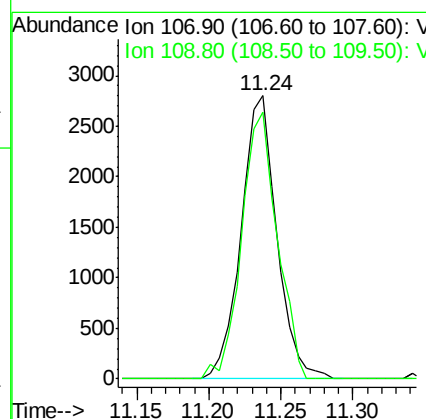
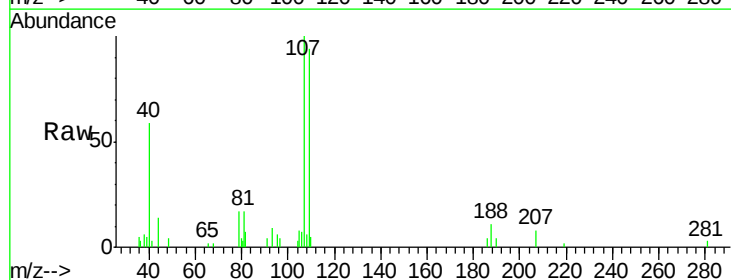
Manual Integrations
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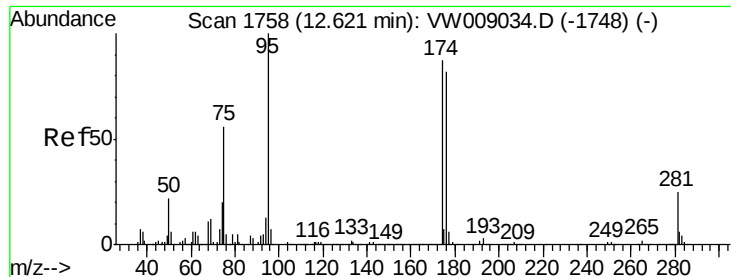
MMDadoda
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#61
1,2-Dibromoethane
Concen: 2.366 ug/l
RT: 11.24 min Scan# 1531
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Tgt Ion:107 Resp: 4795
Ion Ratio Lower Upper
107 100
109 94.4 74.7 112.1





#62

4-Bromofluorobenzene

Concen: 52.967 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

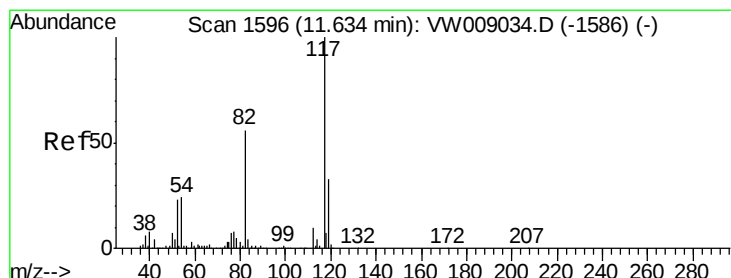
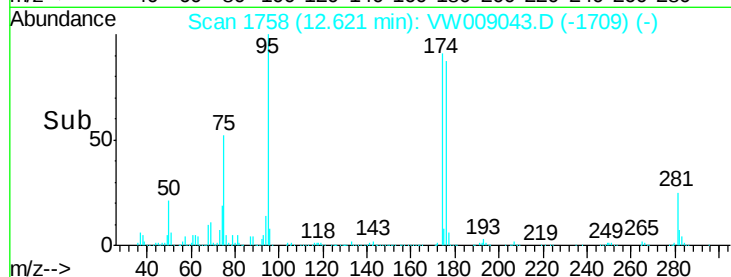
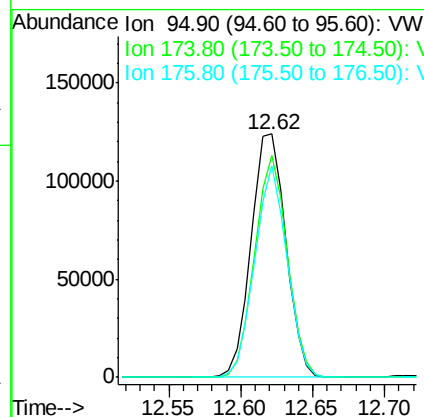
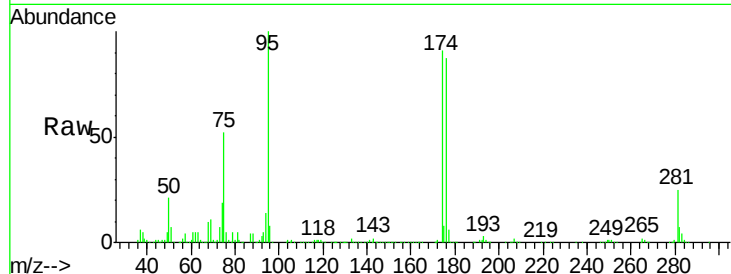
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:	95	Resp:	206007
Ion Ratio	Lower	Upper	
95	100		
174	85.7	0.0	167.0
176	81.1	0.0	159.4

Manual Integrations
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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

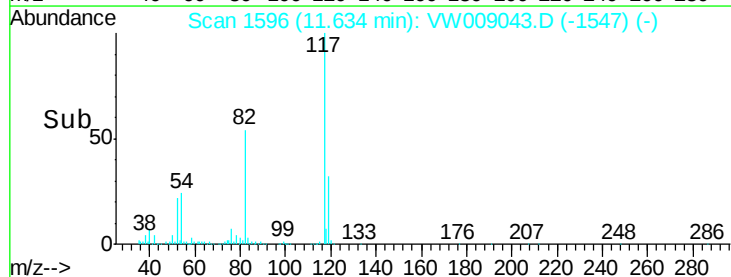
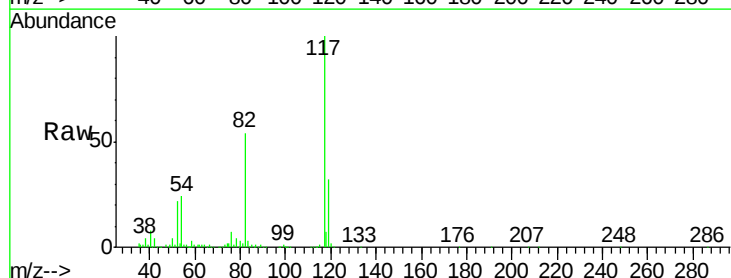
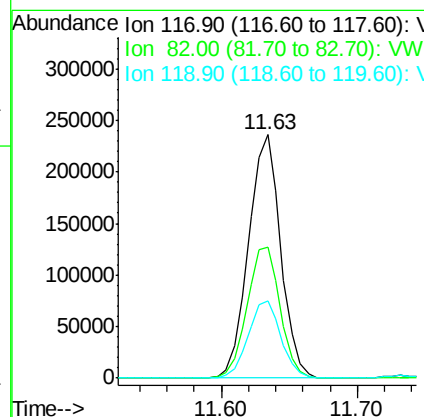
RT: 11.63 min Scan# 1596

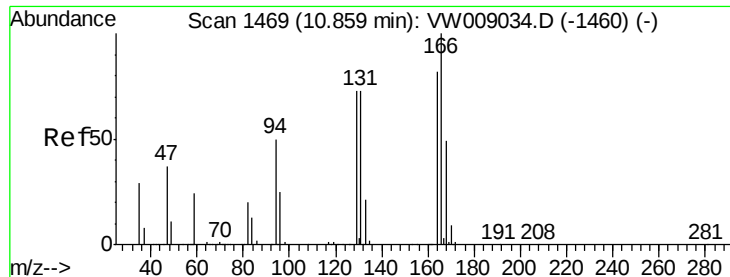
Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Tgt Ion:	117	Resp:	390706
Ion Ratio	Lower	Upper	
117	100		
82	54.0	45.0	67.6
119	31.7	26.6	39.8





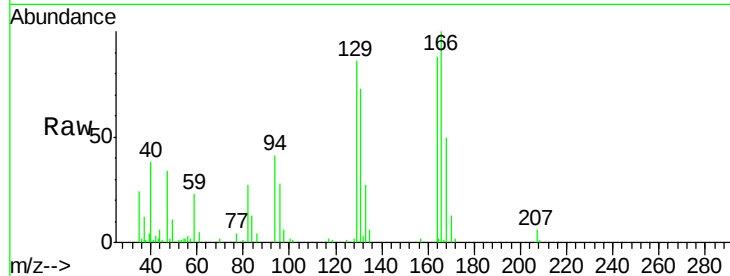
#64
Tetrachloroethene
Concen: 2.692 ug/l
RT: 10.87 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

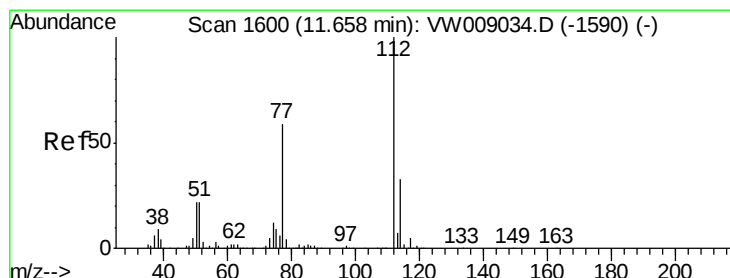
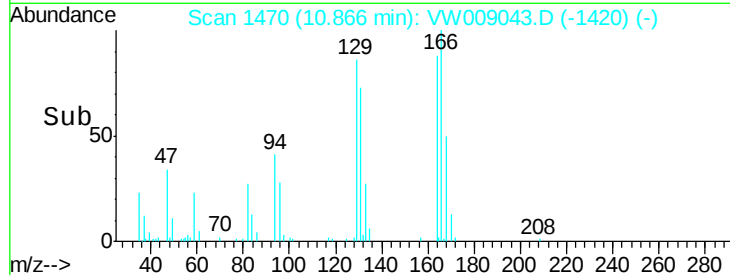
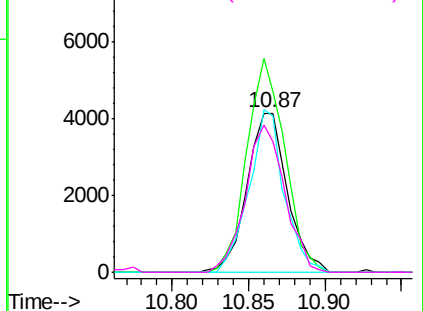
Tot Ion	Ratio	Lower	Upper
164	100		
166	113.4	97.8	146.6
129	98.0	71.6	107.4
131	82.3	71.4	107.0

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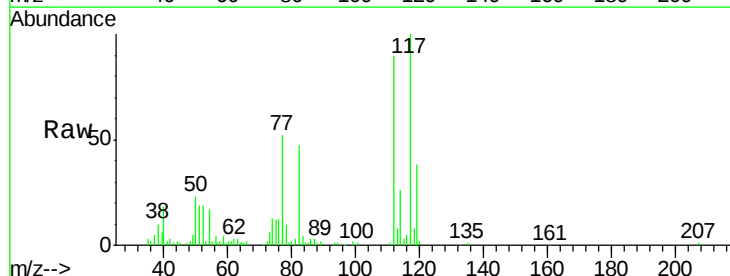


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

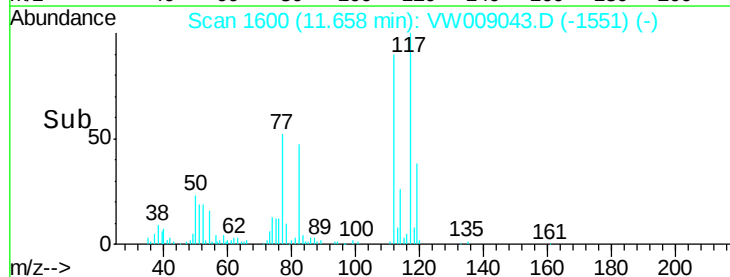
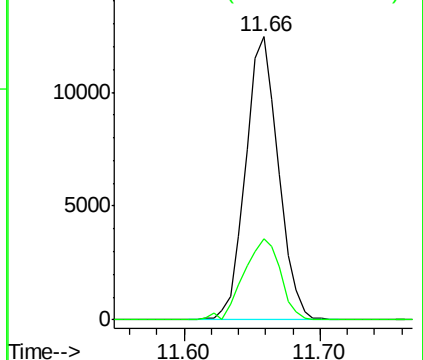


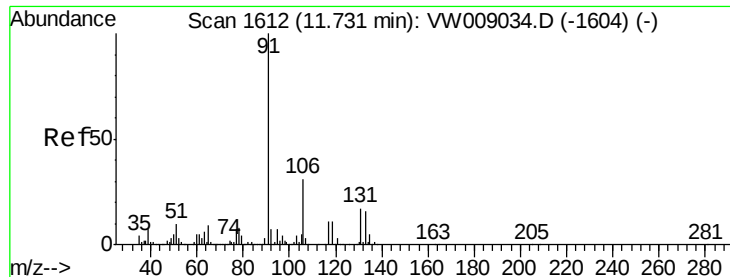
#65
Chlorobenzene
Concen: 2.469 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Tgt Ion	Ratio	Lower	Upper
112	100		
114	28.7	26.6	40.0



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#66

1,1,1,2-Tetrachloroethane

Concen: 2.301 ug/l

RT: 11.73 min Scan# 1611

Delta R.T. -0.01 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

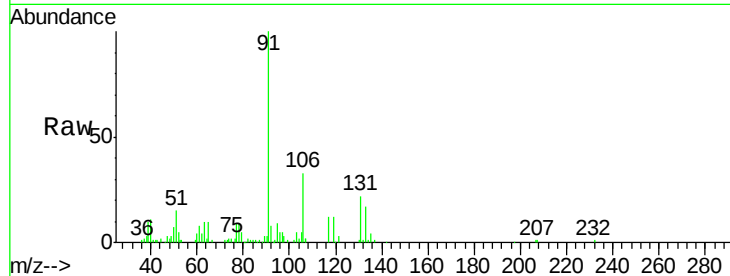
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
131	100		
133	102.1	47.6	142.8
119	66.0	31.3	93.8

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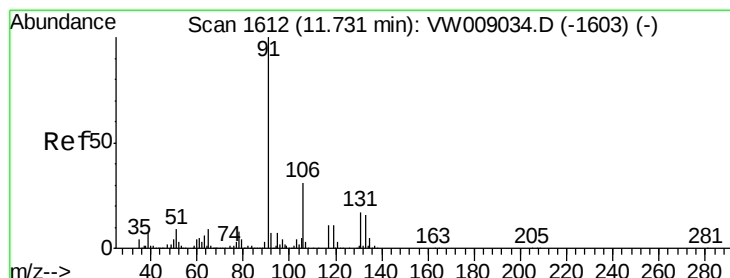
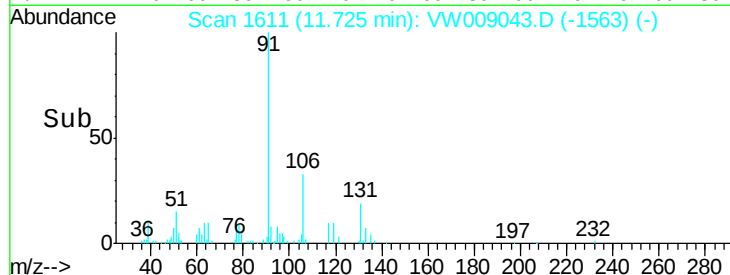
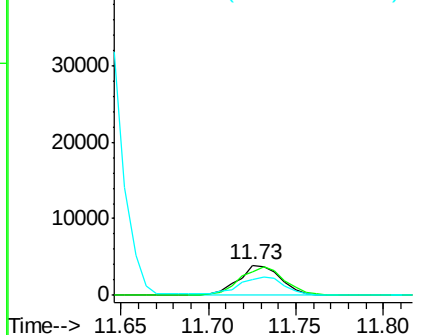
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Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V



#67

Ethyl Benzene

Concen: 2.311 ug/l

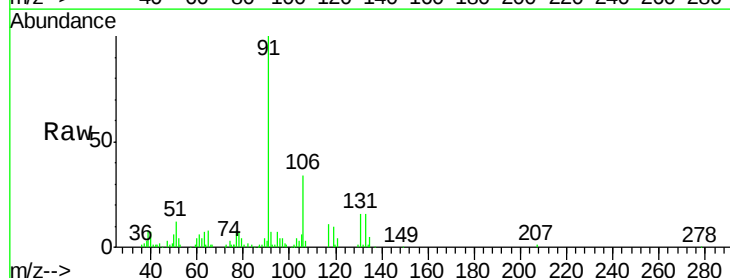
RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW009043.D

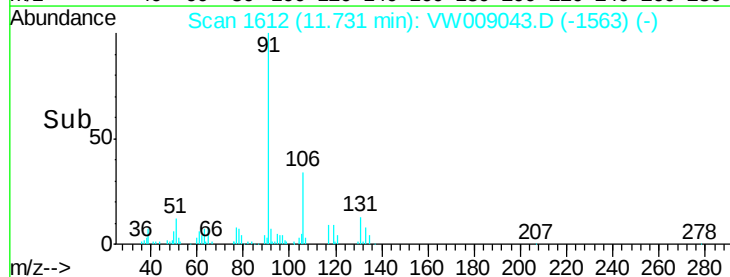
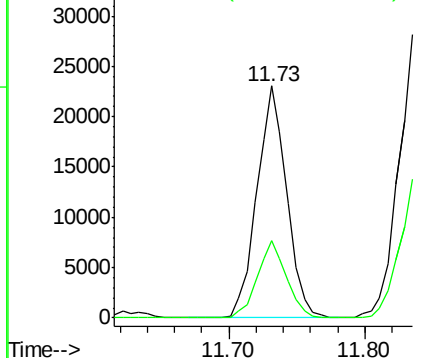
Acq: 07 Mar 2019 16:48

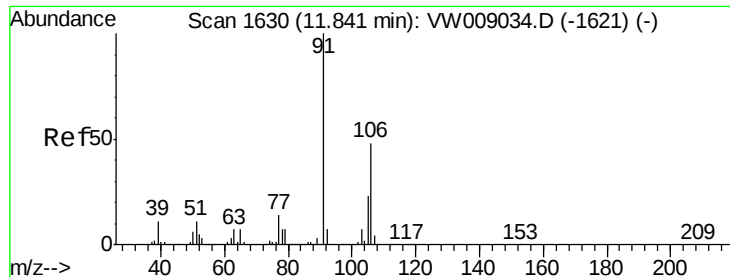
Tgt Ion	Ratio	Lower	Upper
91	100		
106	33.5	25.0	37.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xylenes

Concen: 4.675 ug/l

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:106 Resp: 28347

Ion Ratio Lower Upper

106 100

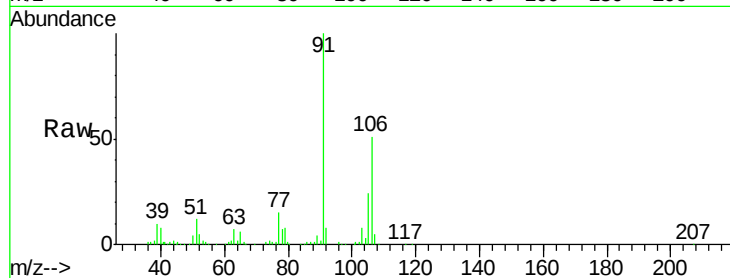
91 201.9 163.2 244.8

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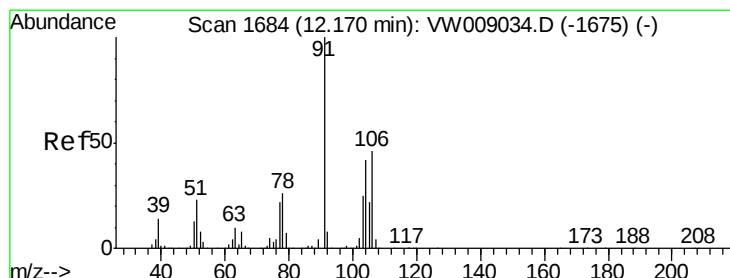
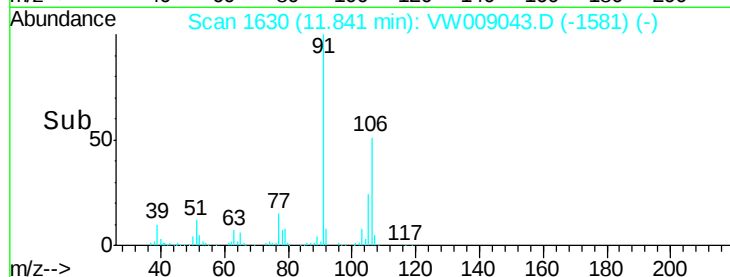
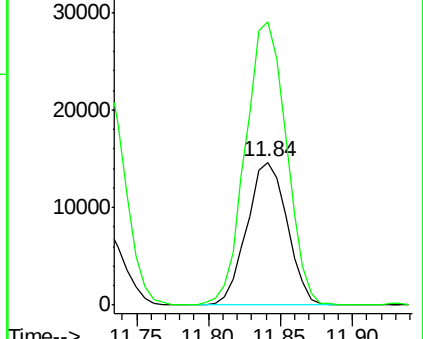
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#69

o-Xylene

Concen: 2.184 ug/l

RT: 12.16 min Scan# 1683

Delta R.T. -0.01 min

Lab File: VW009043.D

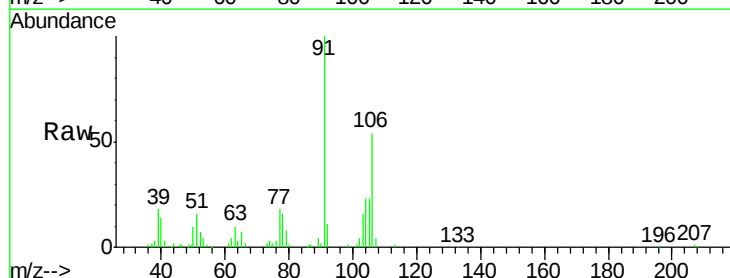
Acq: 07 Mar 2019 16:48

Tgt Ion:106 Resp: 12325

Ion Ratio Lower Upper

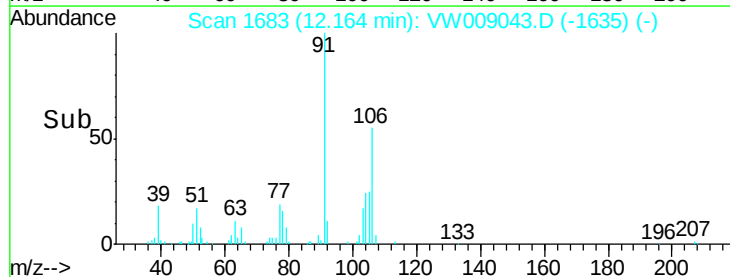
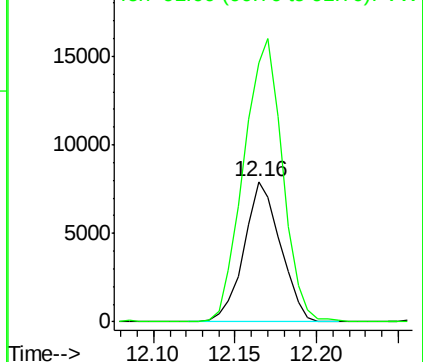
106 100

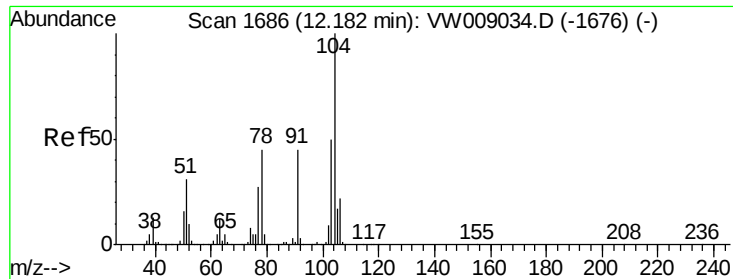
91 215.0 108.6 325.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





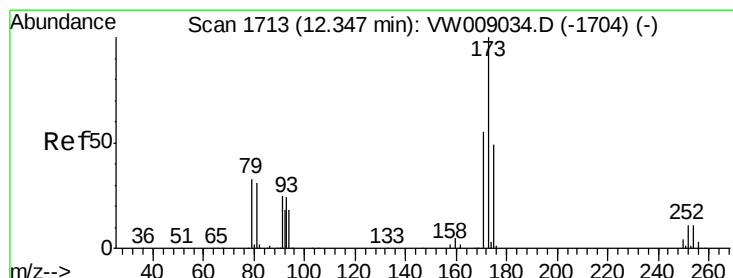
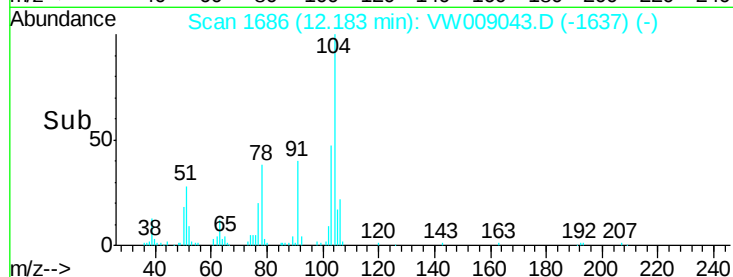
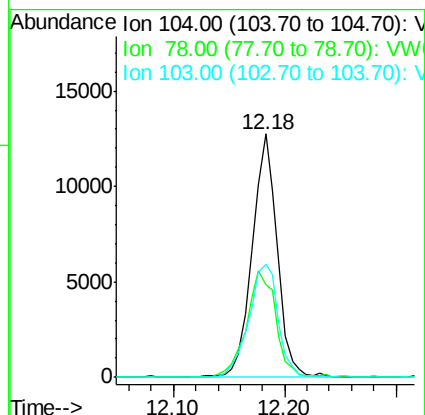
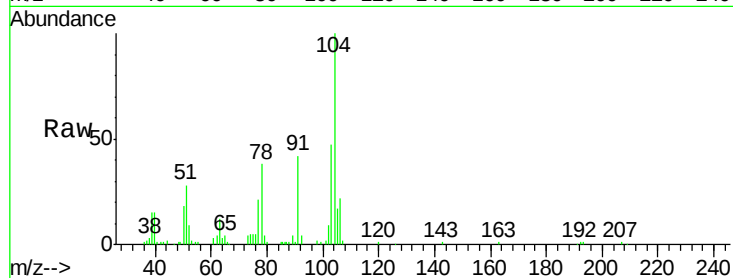
#70
Stvrene
Concen: 2.189 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
104	100		
78	51.7	42.1	63.1
103	54.3	43.9	65.9

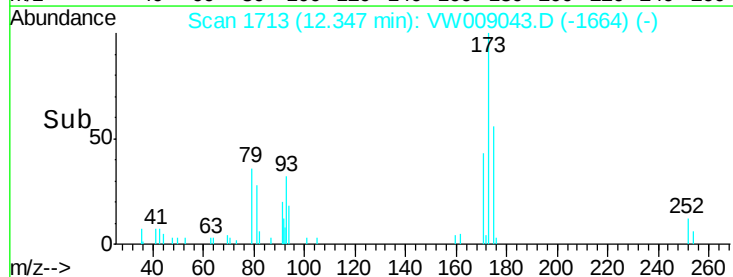
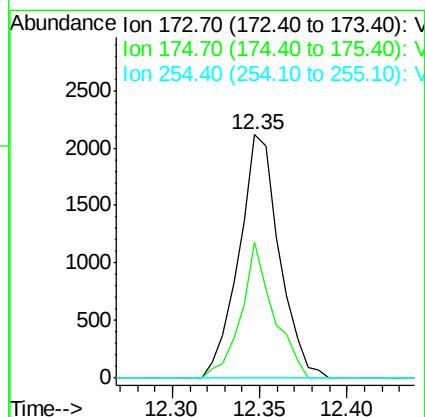
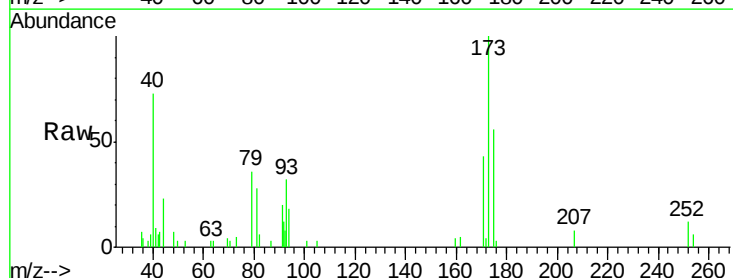
Manual Integrations
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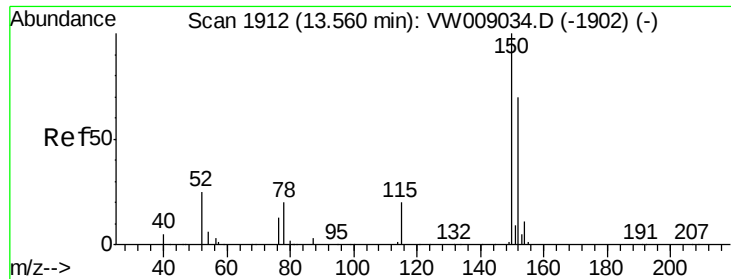
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3/8/2019 12:06:20 PM



#71
Bromoform
Concen: 2.229 ug/l
RT: 12.35 min Scan# 1713
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Tgt Ion	Ratio	Lower	Upper
173	100		
175	44.5	24.6	74.0
254	0.0	0.0	0.0





#72

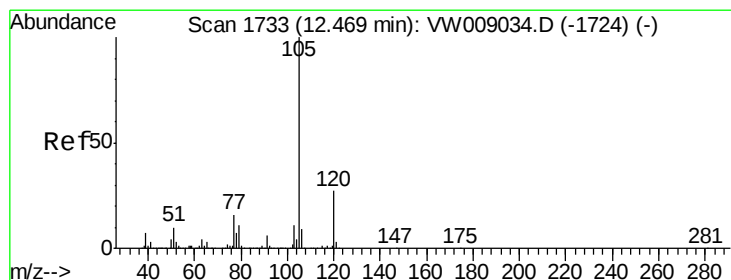
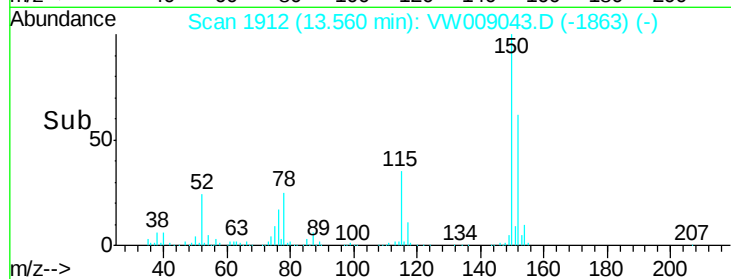
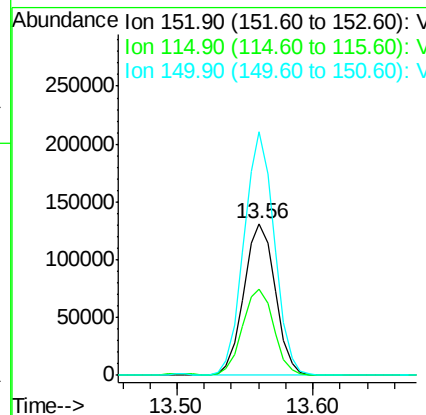
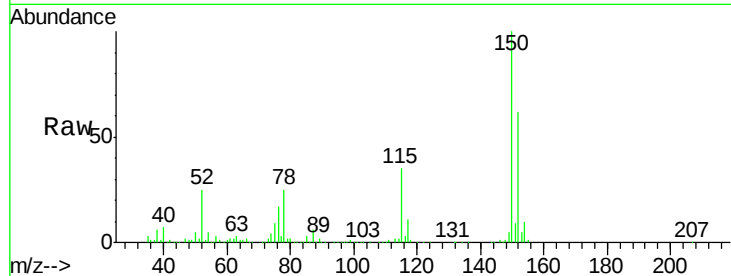
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
152	100		
115	56.6	28.9	86.7
150	156.0	0.0	349.2

Manual Integrations
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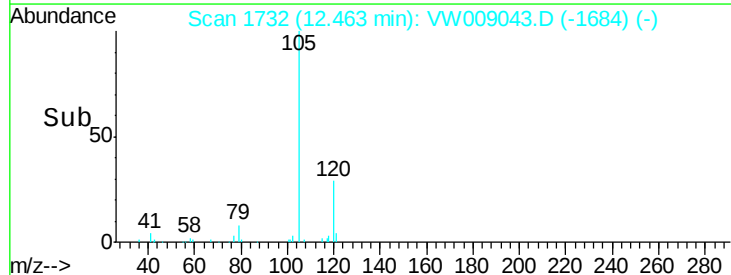
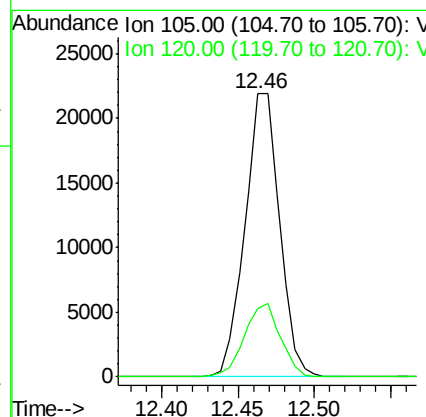
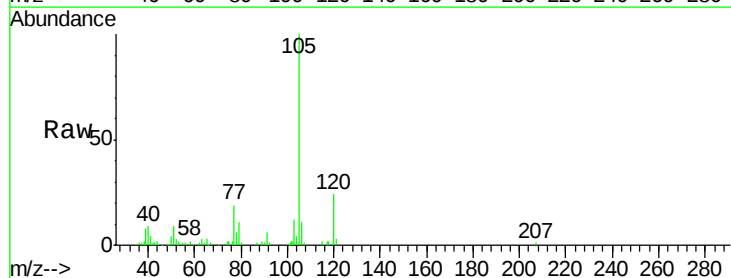
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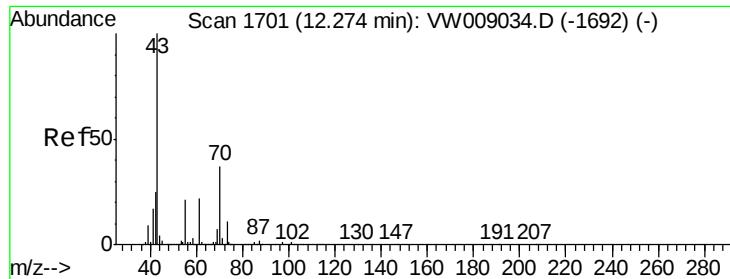


#73

Isopropylbenzene
Concen: 2.272 ug/l
RT: 12.46 min Scan# 1732
Delta R.T. -0.01 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.9	13.2	39.6





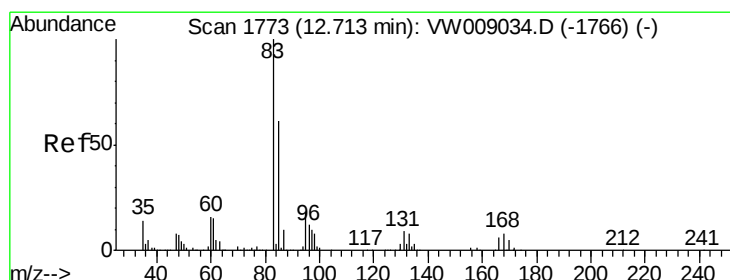
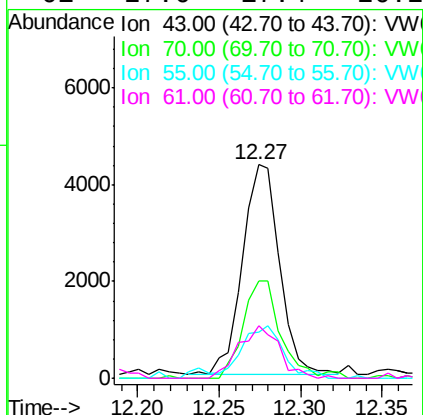
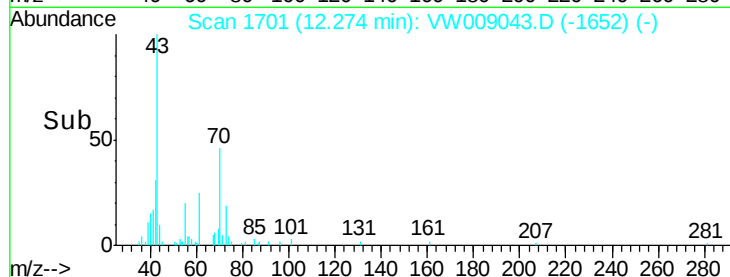
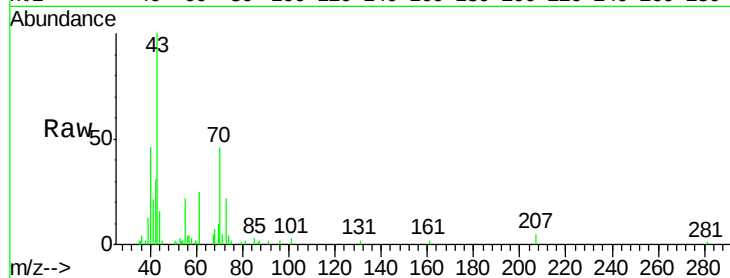
#74
N-amvl acetate
Concen: 1.912 ug/l
RT: 12.27 min Scan# 1701
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
43	100		
70	47.7	30.8	46.2#
55	27.8	17.8	26.8#
61	27.6	17.4	26.2#

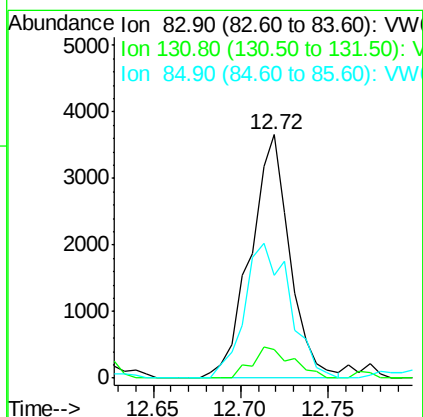
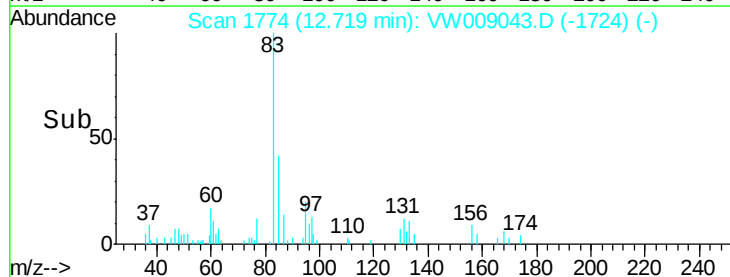
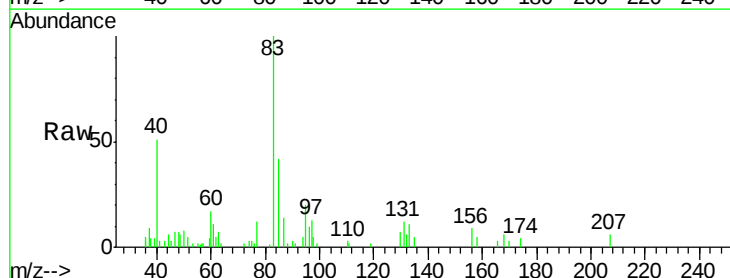
Manual Integrations
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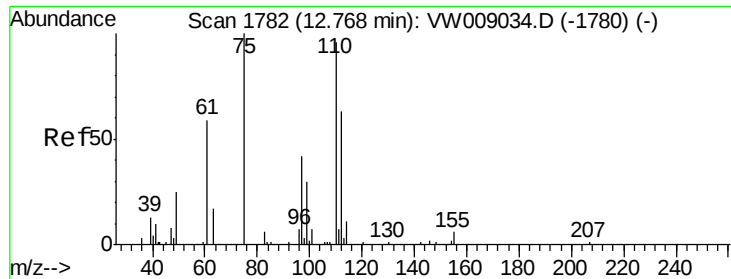
MMDadoda
3/8/2019 12:06:20 PM



#75
1,1,2,2-Tetrachloroethane
Concen: 2.418 ug/l
RT: 12.72 min Scan# 1774
Delta R.T. 0.01 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Tgt Ion	Ratio	Lower	Upper
83	100		
131	12.9	5.5	16.7
85	63.9	31.7	95.1





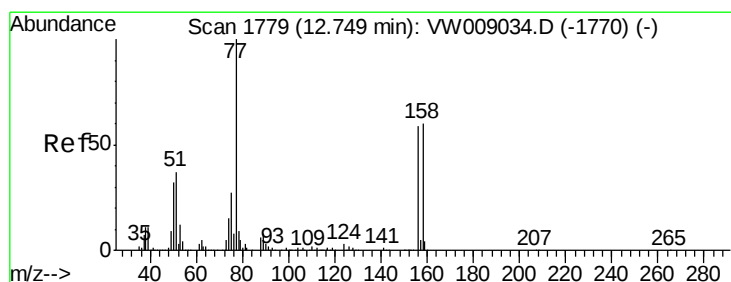
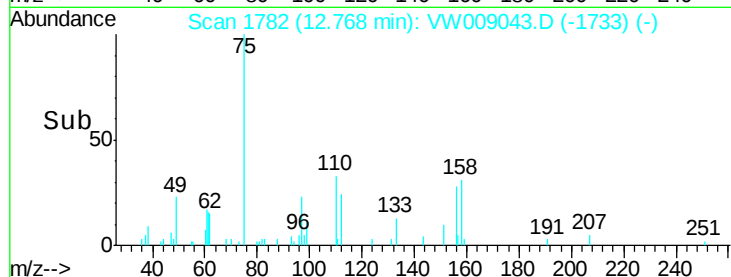
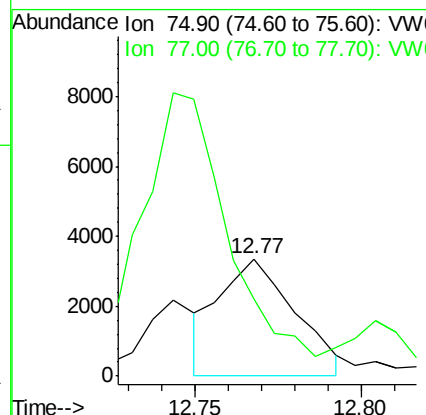
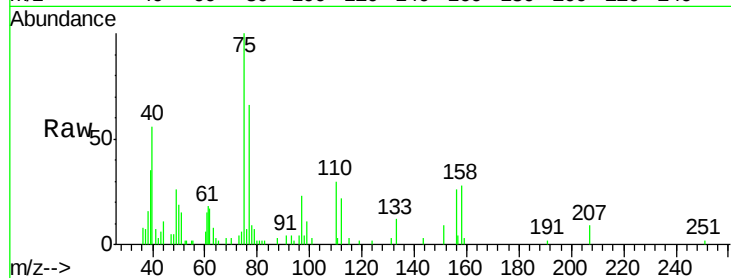
#76
 1,2,3-Trichloropropane
 Concen: 3.174 ug/l m
 RT: 12.77 min Scan# 1782
 Delta R.T. 0.00 min
 Lab File: VW009043.D
 Acq: 07 Mar 2019 16:48

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 75 Resp: 5303
 Ion Ratio Lower Upper
 75 100
 77 0.0 186.7 560.0#

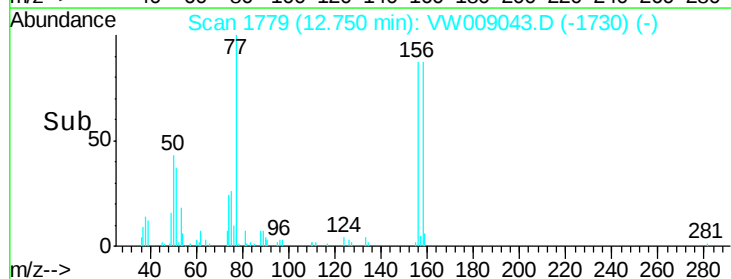
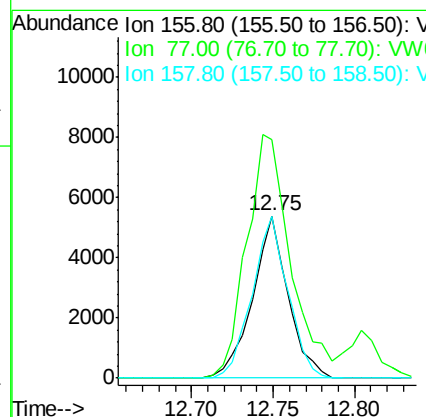
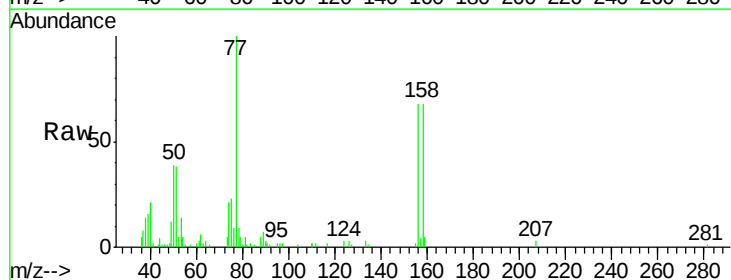
Manual Integrations
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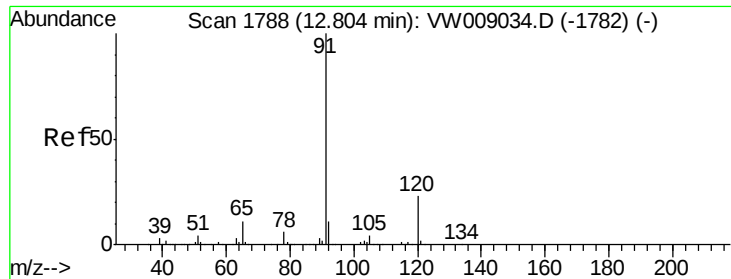
MMDadoda
 3/8/2019 12:06:20 PM



#77
 Bromobenzene
 Concen: 2.365 ug/l
 RT: 12.75 min Scan# 1779
 Delta R.T. 0.00 min
 Lab File: VW009043.D
 Acq: 07 Mar 2019 16:48

Tgt Ion: 156 Resp: 8183
 Ion Ratio Lower Upper
 156 100
 77 184.8 93.0 279.2
 158 100.4 50.0 149.8





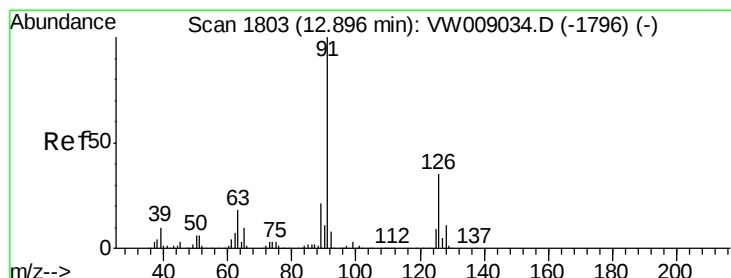
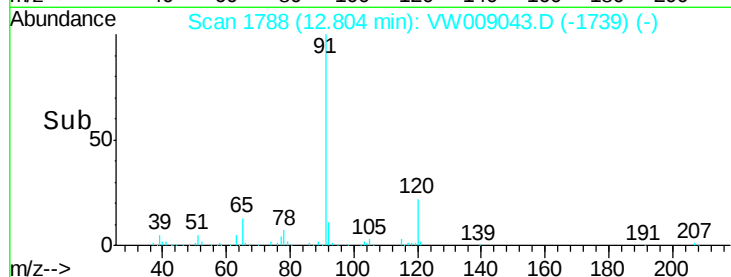
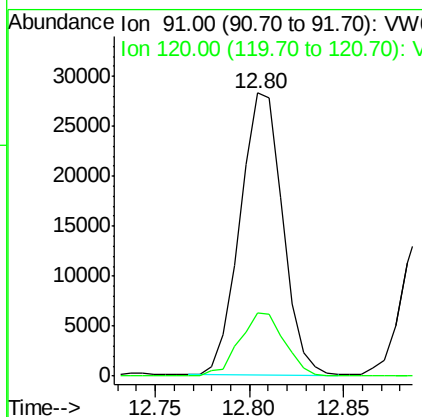
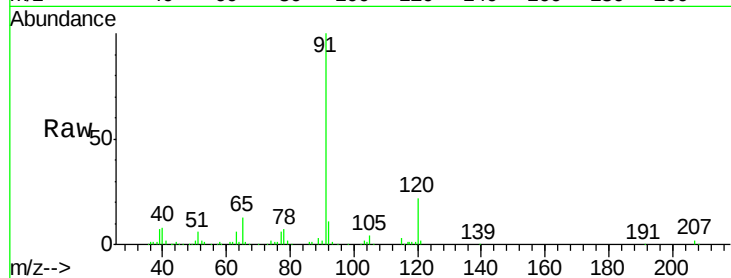
#78
n-propylbenzene
Concen: 2.372 ug/l
RT: 12.80 min Scan# 1788
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 91 Resp: 44249
Ion Ratio Lower Upper
91 100
120 23.5 11.4 34.2

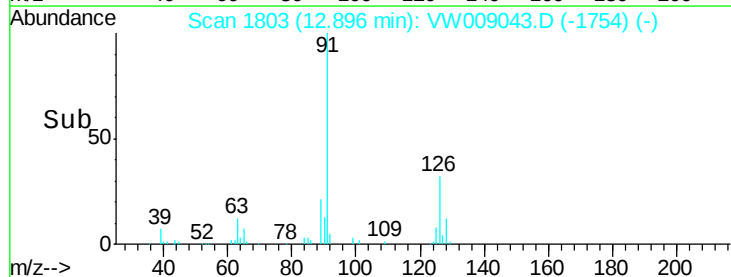
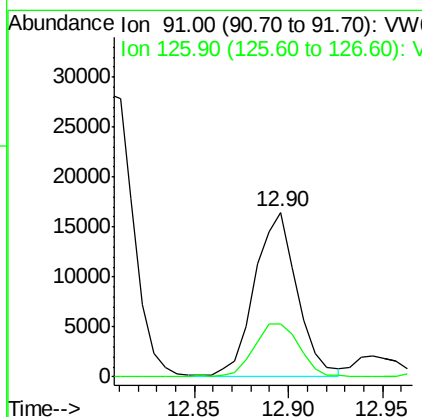
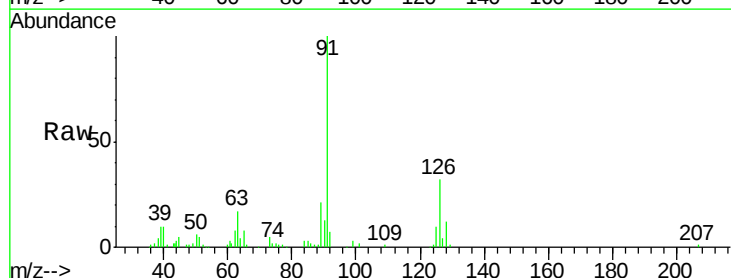
Manual Integrations
APPROVED

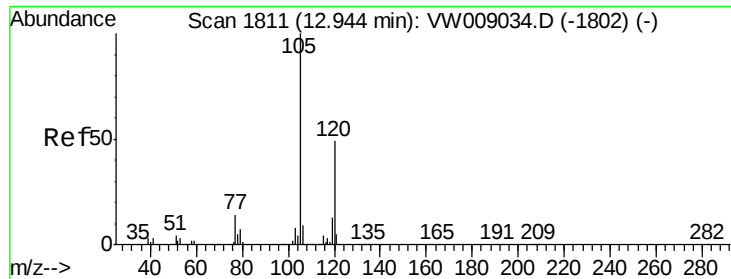
MMDadoda
3/8/2019 12:06:20 PM



#79
2-Chlorotoluene
Concen: 2.441 ug/l
RT: 12.90 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Tgt Ion: 91 Resp: 25576
Ion Ratio Lower Upper
91 100
126 35.2 16.8 50.4





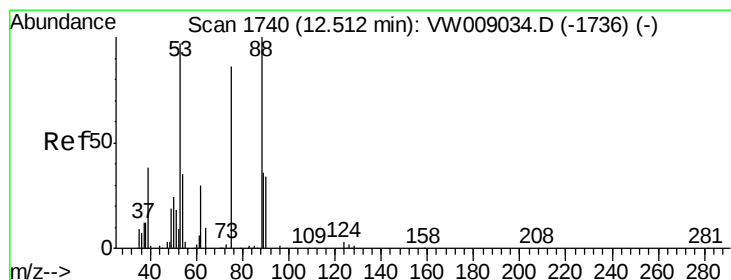
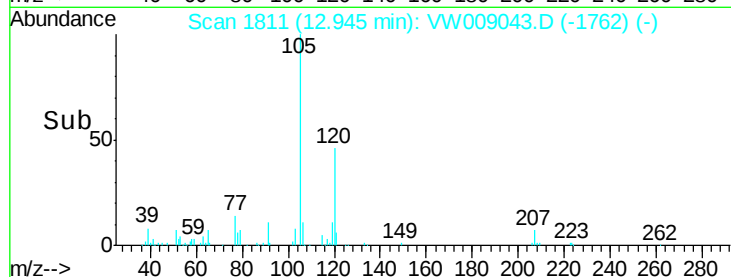
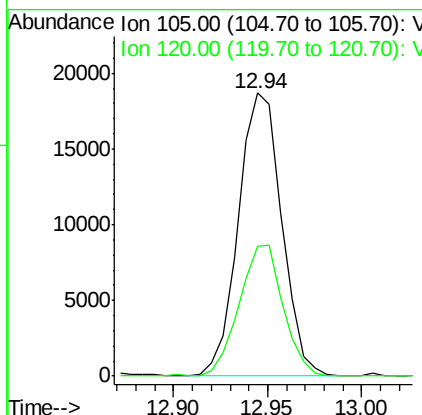
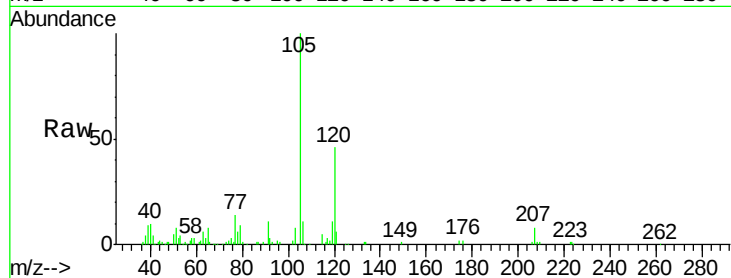
#80
 1,3,5-Trimethylbenzene
 Concen: 2.286 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. 0.00 min
 Lab File: VW009043.D
 Acq: 07 Mar 2019 16:48

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

Tot Ion:105 Resp: 29834
 Ion Ratio Lower Upper
 105 100
 120 47.0 24.4 73.2

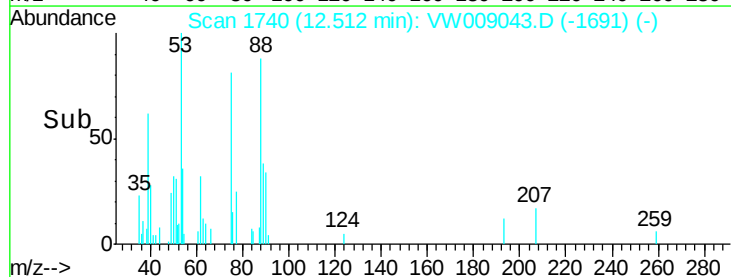
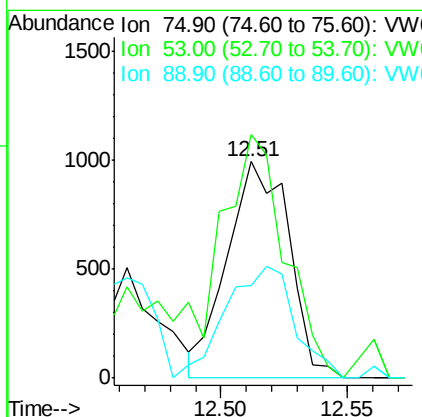
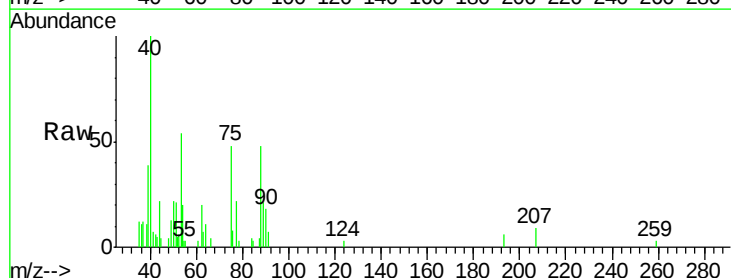
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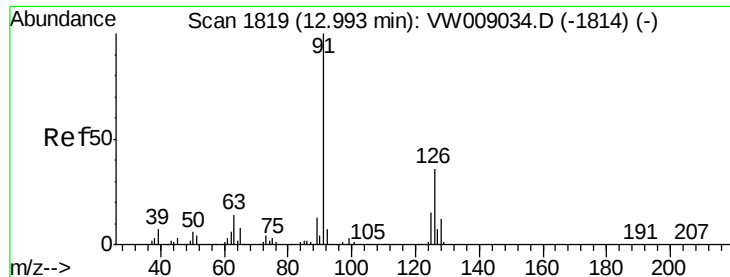
MMDadoda
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#81
 trans-1,4-Dichloro-2-butene
 Concen: 2.243 ug/l m
 RT: 12.51 min Scan# 1740
 Delta R.T. 0.00 min
 Lab File: VW009043.D
 Acq: 07 Mar 2019 16:48

Tgt Ion: 75 Resp: 1675
 Ion Ratio Lower Upper
 75 100
 53 11.6 90.5 135.7#
 89 21.9 37.5 56.3#





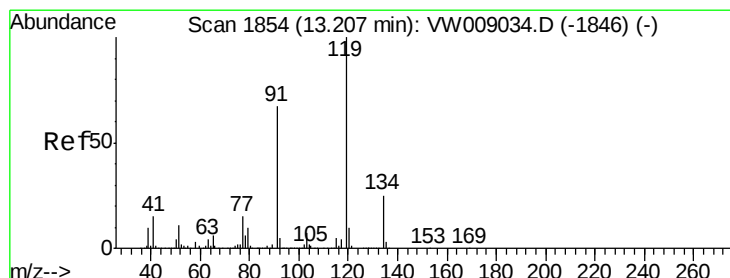
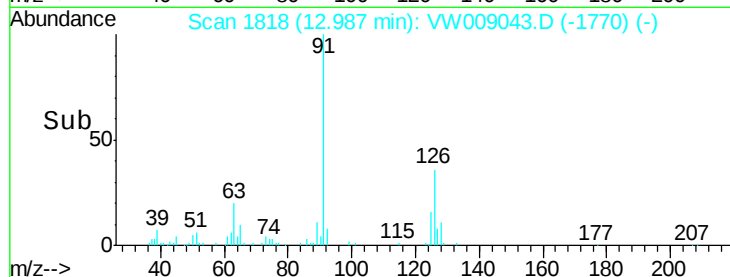
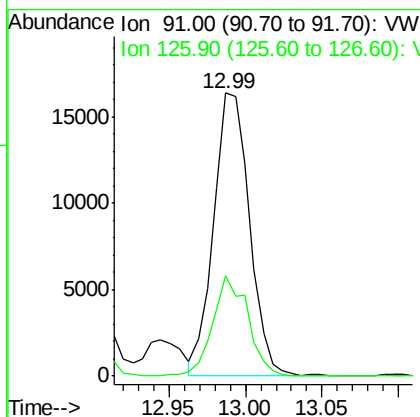
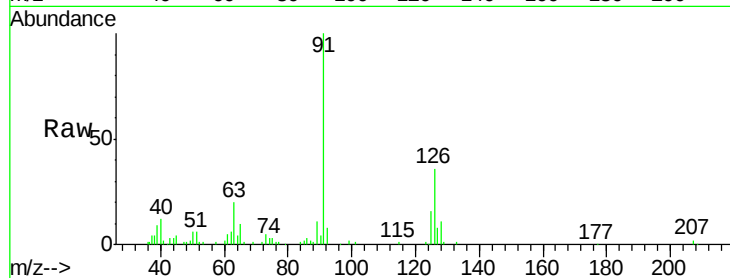
#82
4-Chlorotoluene
Concen: 2.395 ug/l
RT: 12.99 min Scan# 1818
Delta R.T. -0.01 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 91 Resp: 26752
Ion Ratio Lower Upper
91 100
126 35.0 16.6 49.8

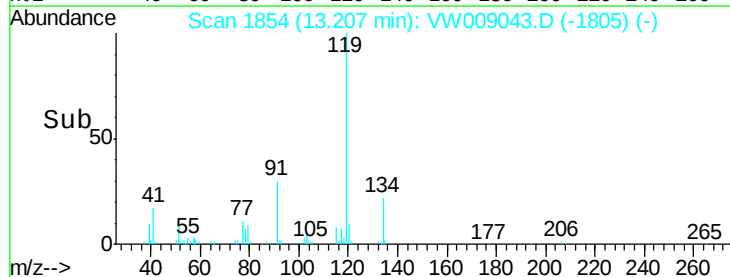
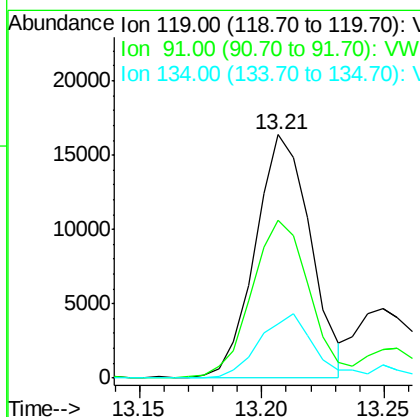
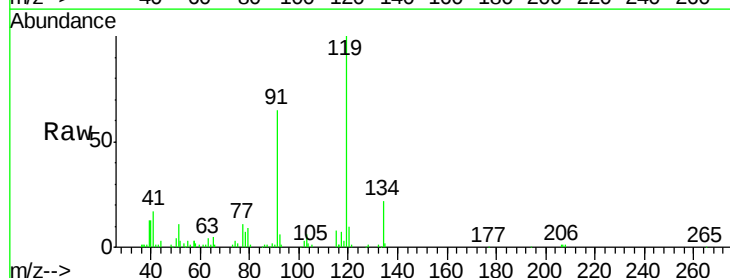
Manual Integrations
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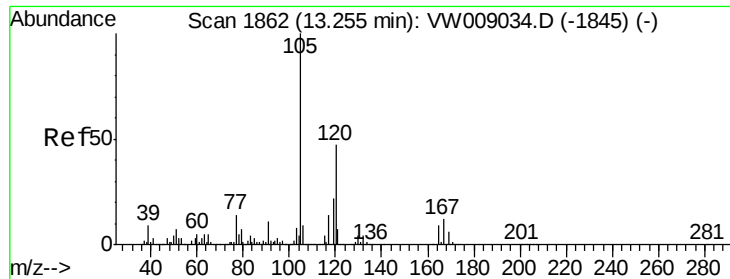
MMDadoda
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#83
tert-Butylbenzene
Concen: 2.355 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Tgt Ion: 119 Resp: 25920
Ion Ratio Lower Upper
119 100
91 67.9 34.2 102.5
134 26.4 13.9 41.6





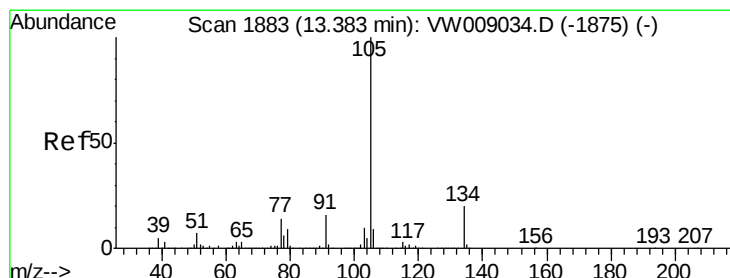
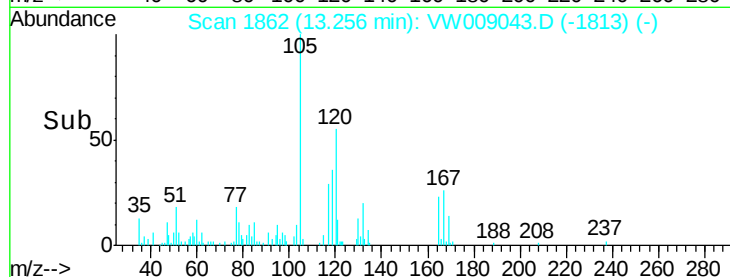
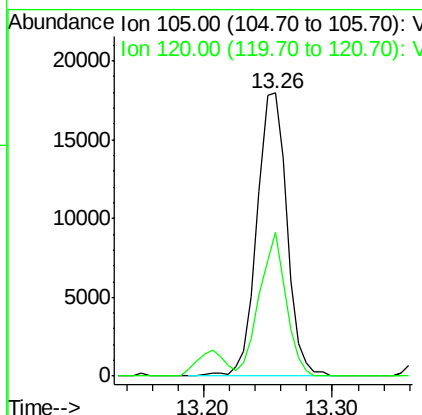
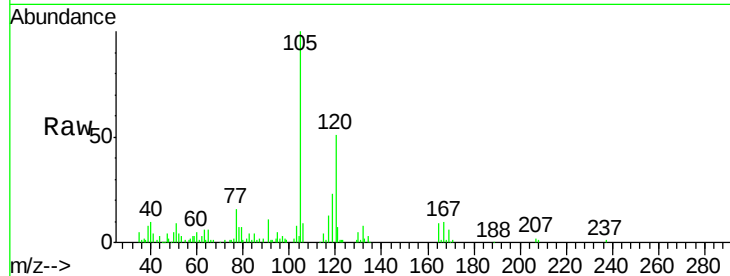
#84
1,2,4-Trimethylbenzene
Concen: 2.186 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion:105 Resp: 28869
Ion Ratio Lower Upper
105 100
120 45.1 22.8 68.4

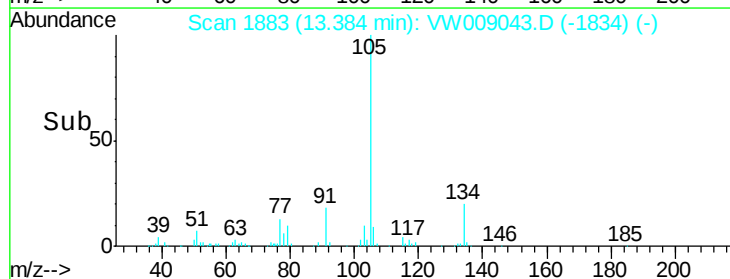
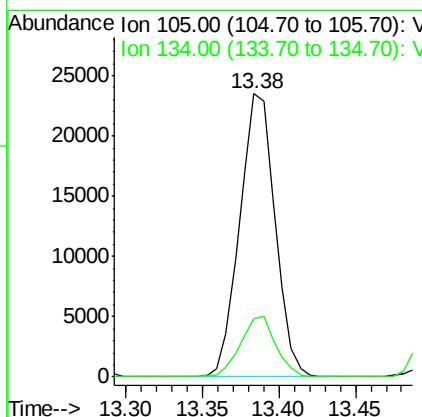
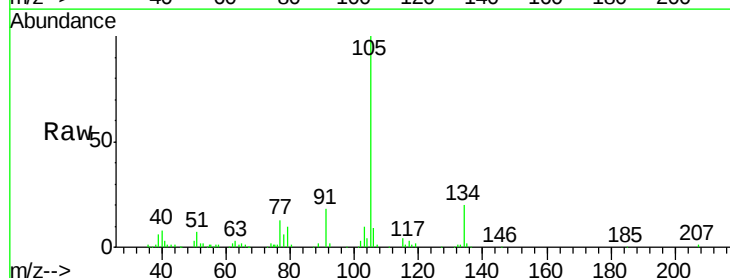
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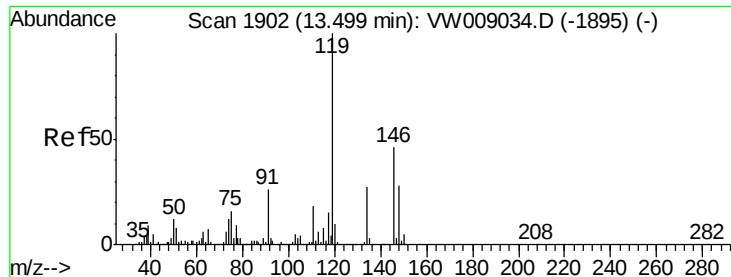
MMDadoda
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#85
sec-Butylbenzene
Concen: 2.317 ug/l
RT: 13.38 min Scan# 1883
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Tgt Ion:105 Resp: 37796
Ion Ratio Lower Upper
105 100
134 21.4 10.0 30.0





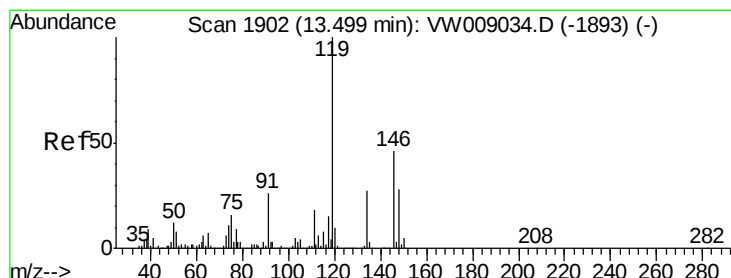
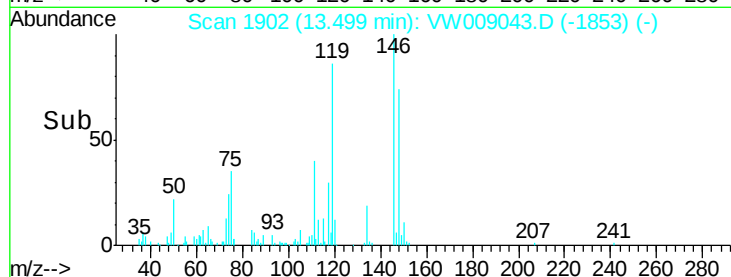
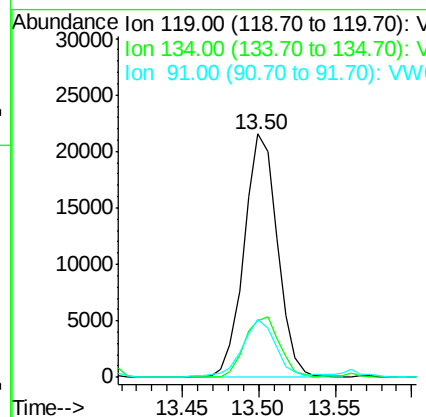
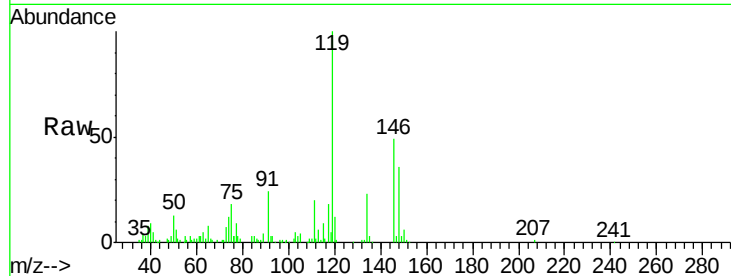
#86
p-Isopropyltoluene
Concen: 2.237 ug/l
RT: 13.50 min Scan# 1902
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.7	13.3	39.9
91	24.6	12.3	36.9

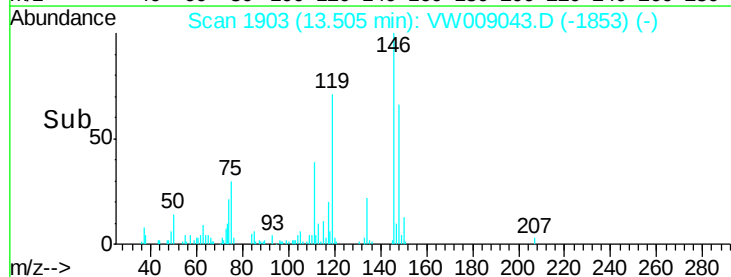
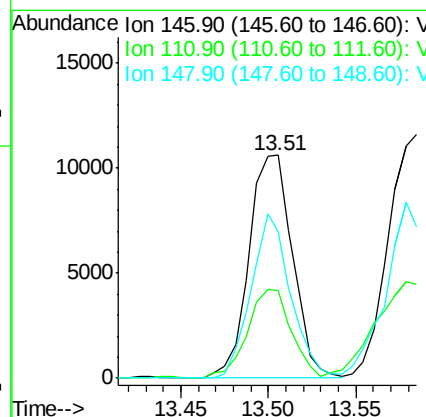
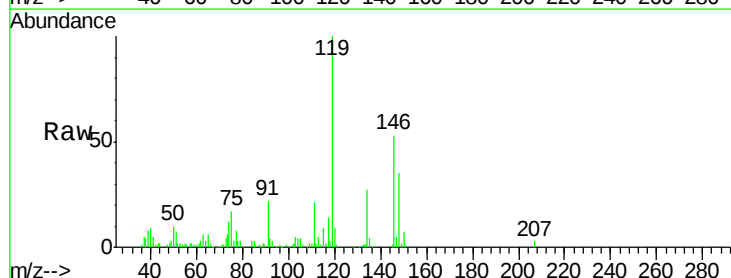
Manual Integrations
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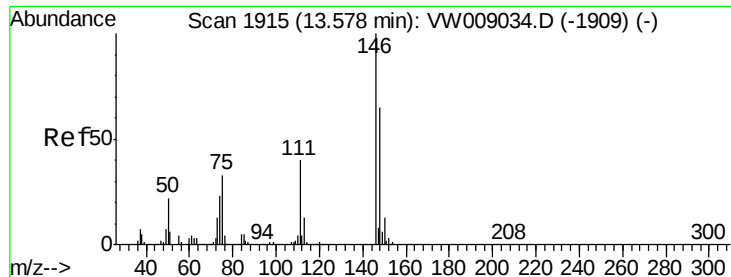
MMDadoda
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#87
1,3-Dichlorobenzene
Concen: 2.531 ug/l
RT: 13.51 min Scan# 1903
Delta R.T. 0.01 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.0	19.8	59.4
148	67.0	31.6	94.8





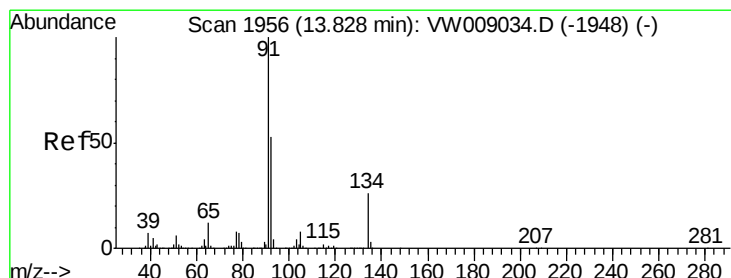
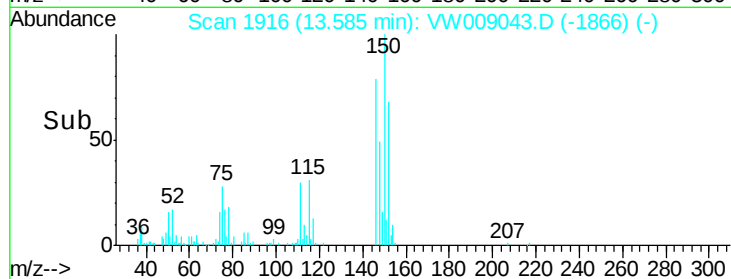
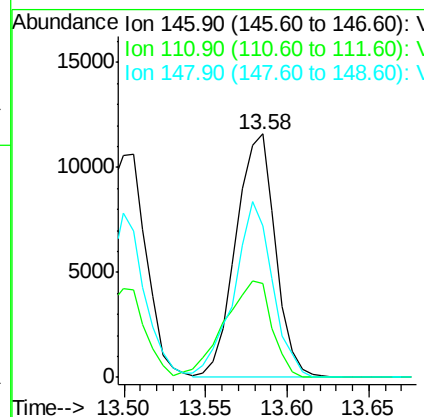
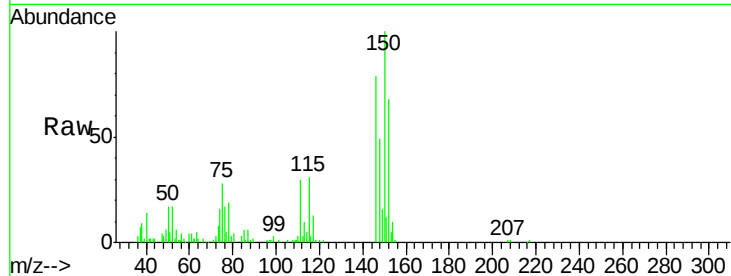
#88
 1,4-Dichlorobenzene
 Concen: 2.726 ug/l
 RT: 13.58 min Scan# 1916
 Delta R.T. 0.01 min
 Lab File: VW009043.D
 Acq: 07 Mar 2019 16:48

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.0	19.7	59.0
148	70.7	32.2	96.6

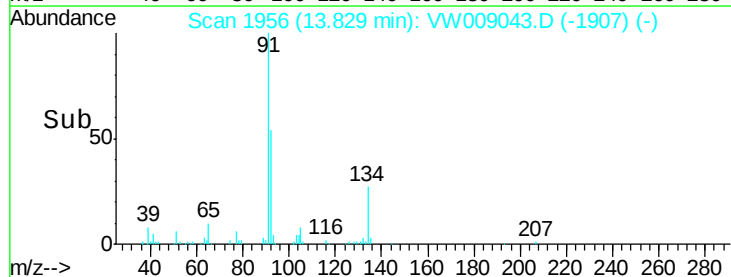
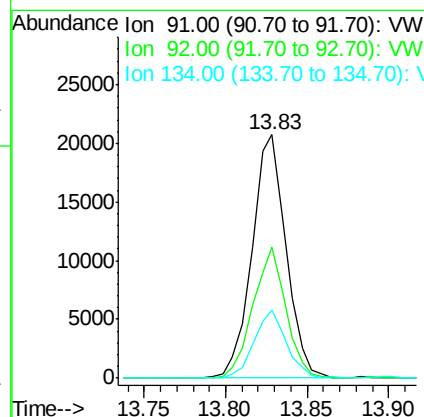
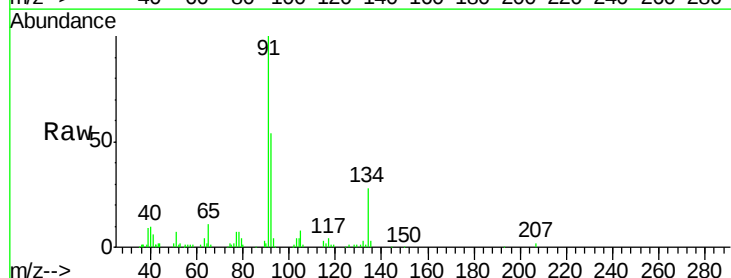
Manual Integrations
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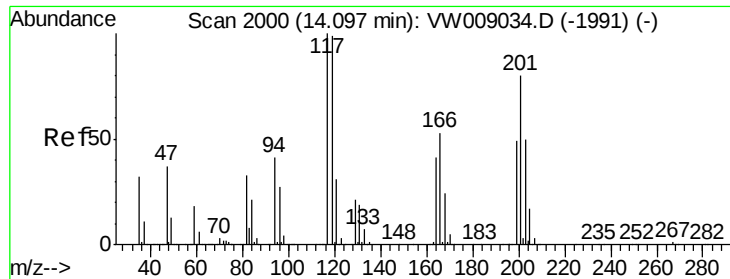
MMDadoda
 3/8/2019 12:06:20 PM



#89
 n-Butylbenzene
 Concen: 2.185 ug/l
 RT: 13.83 min Scan# 1956
 Delta R.T. 0.00 min
 Lab File: VW009043.D
 Acq: 07 Mar 2019 16:48

Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.6	26.8	80.3
134	26.6	12.9	38.7





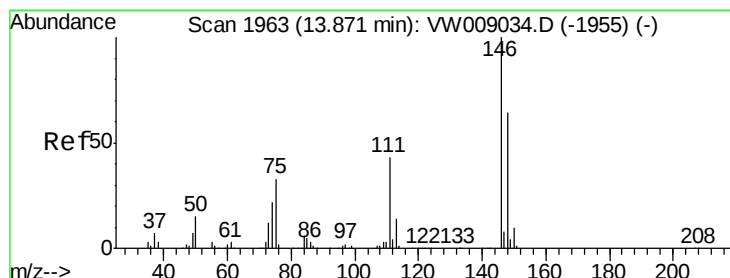
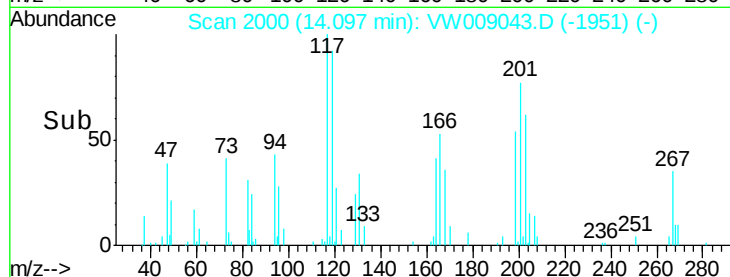
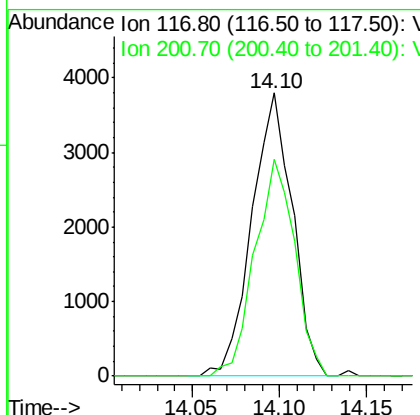
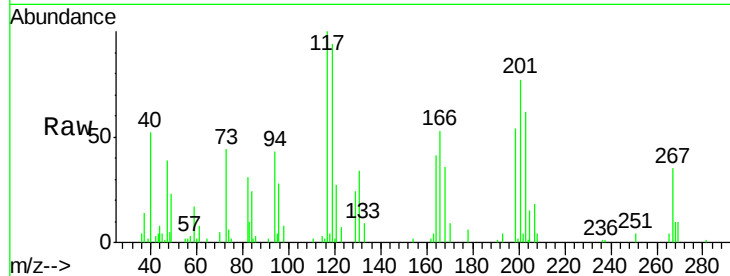
#90
Hexachloroethane
Concen: 2.449 ug/l
RT: 14.10 min Scan# 2000
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion:117 Resp: 6164
Ion Ratio Lower Upper
117 100
201 75.5 39.1 117.5

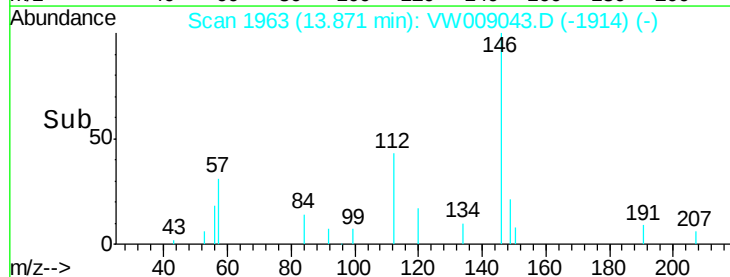
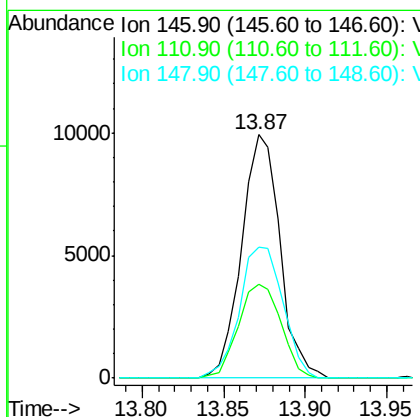
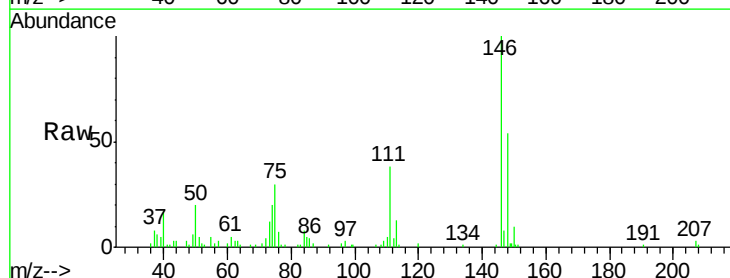
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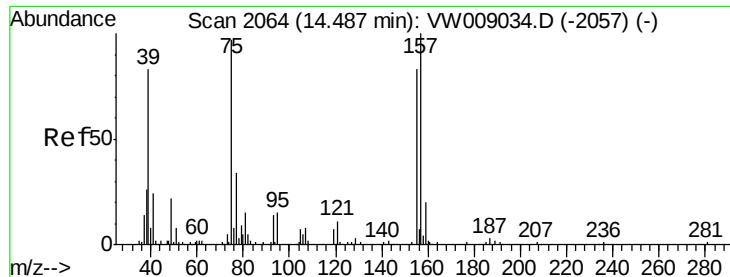
MMDadoda
3/8/2019 12:06:20 PM



#91
1,2-Dichlorobenzene
Concen: 2.541 ug/l
RT: 13.87 min Scan# 1963
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Tgt Ion:146 Resp: 16302
Ion Ratio Lower Upper
146 100
111 42.5 21.1 63.1
148 61.0 32.3 96.9





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.889 ug/l

RT: 14.49 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

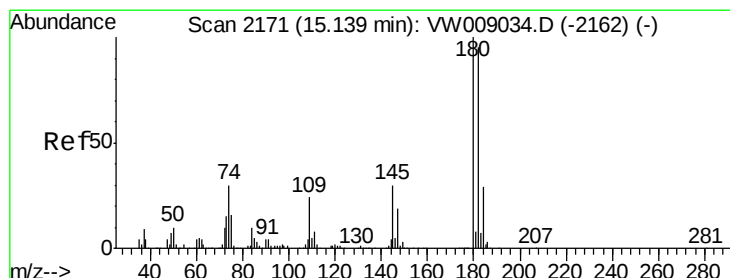
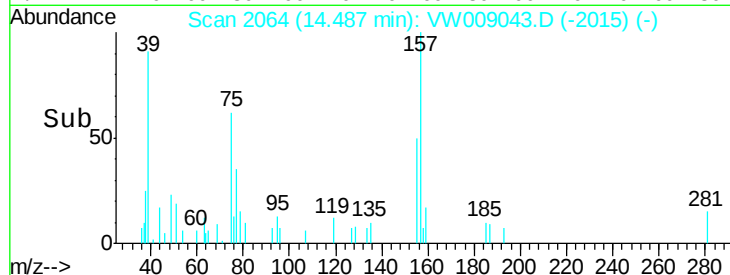
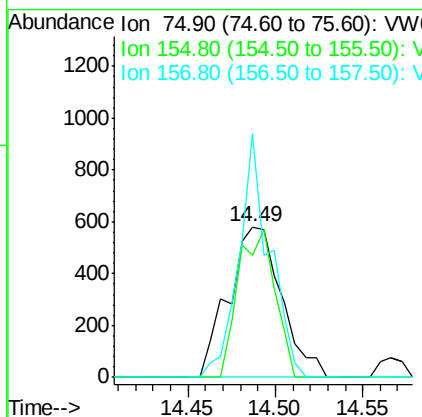
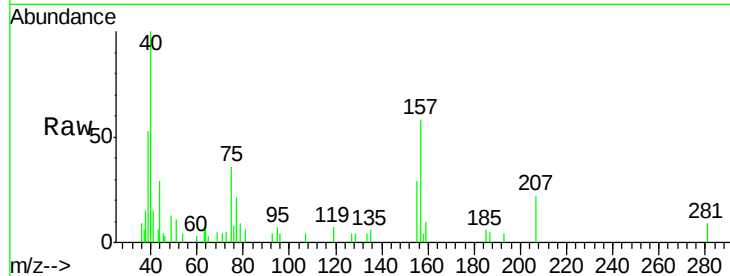
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion:	75	Resp:	1229
Ion	Ratio	Lower	Upper
75	100		
155	68.2	40.8	122.4
157	93.7	52.4	157.3

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3/8/2019 12:06:20 PM



#93

1,2,4-Trichlorobenzene

Concen: 2.446 ug/l

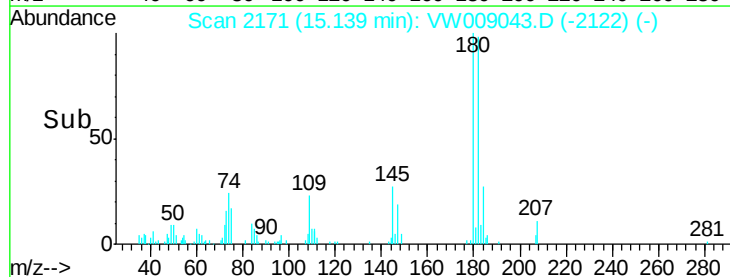
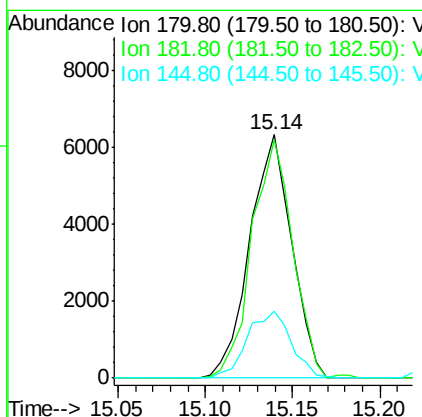
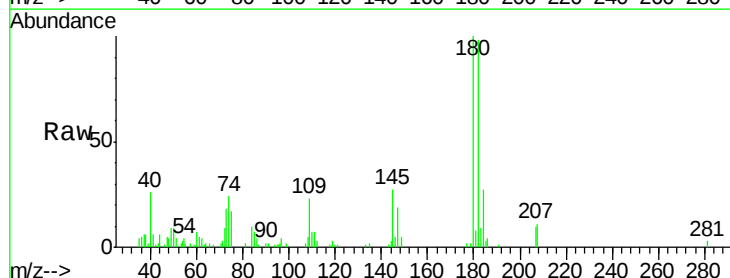
RT: 15.14 min Scan# 2171

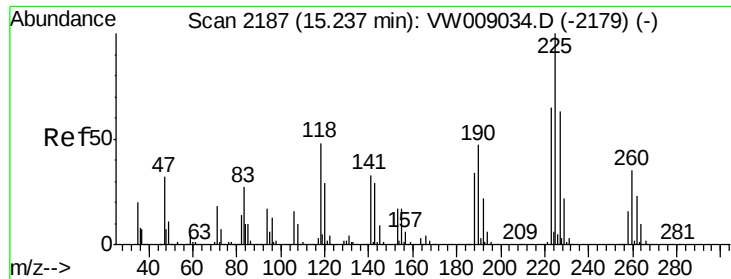
Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Tgt Ion:	180	Resp:	10599
Ion	Ratio	Lower	Upper
180	100		
182	95.8	48.1	144.3
145	28.9	15.4	46.1





#94

Hexachlorobutadiene

Concen: 2.785 ug/l

RT: 15.24 min Scan# 2188

Delta R.T. 0.01 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

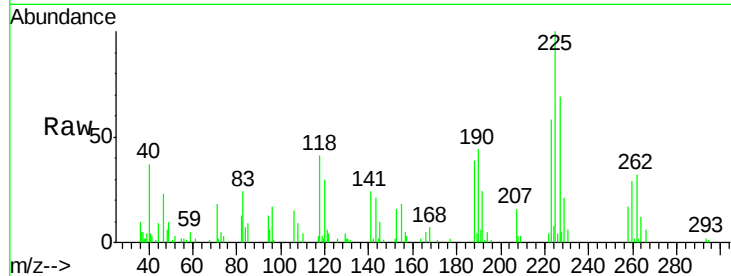
ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

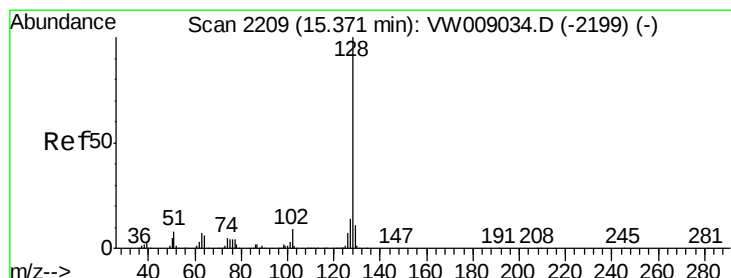
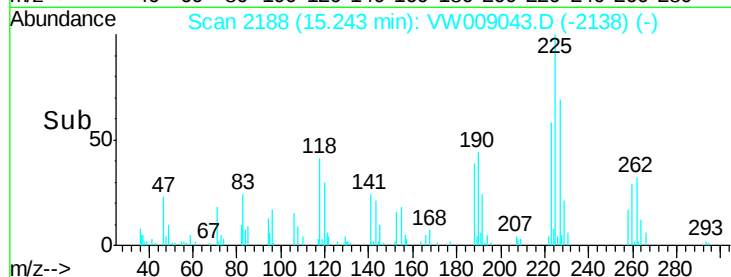
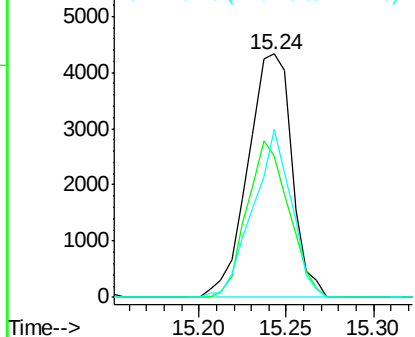
Tot Ion:	225	Resp:	7559
Ion Ratio	Lower	Upper	
225	100		
223	60.9	31.6	94.8
227	60.3	32.0	96.2

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3/8/2019 12:06:20 PM



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 2.047 ug/l

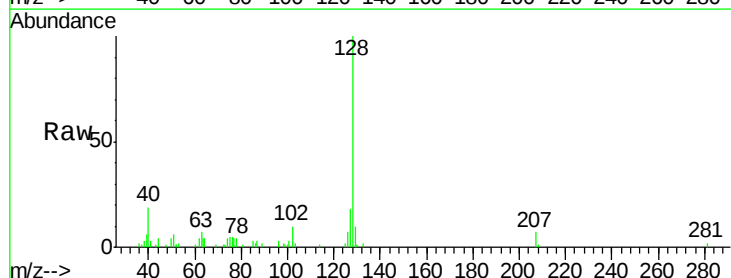
RT: 15.38 min Scan# 2210

Delta R.T. 0.01 min

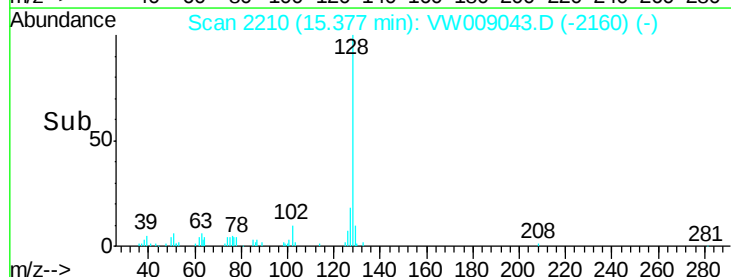
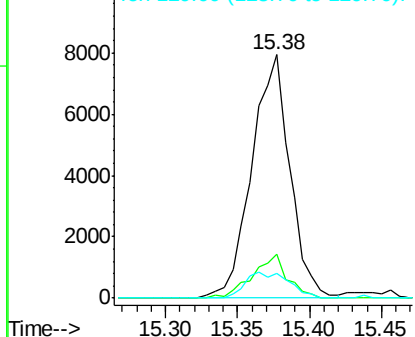
Lab File: VW009043.D

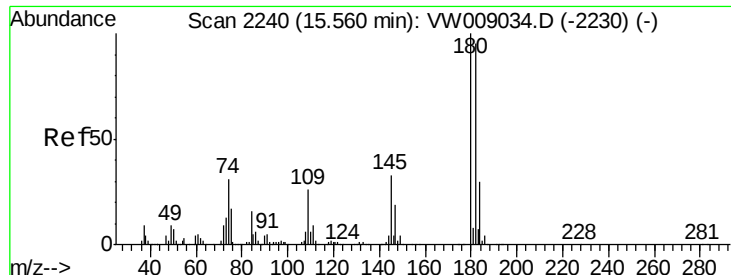
Acq: 07 Mar 2019 16:48

Tgt Ion:	128	Resp:	14519
Ion Ratio	Lower	Upper	
128	100		
127	16.4	11.0	16.6
129	12.2	8.8	13.2



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V





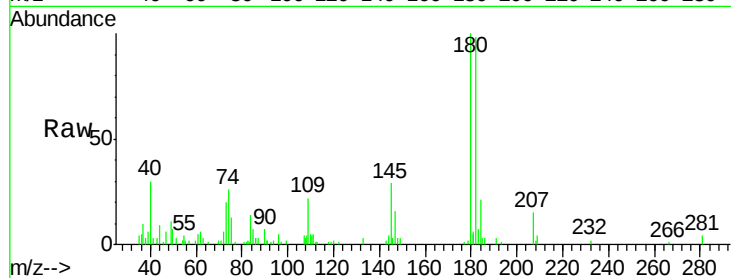
#96
 1,2,3-Trichlorobenzene
 Concen: 2.459 ug/l
 RT: 15.57 min Scan# 2241
 Delta R.T. 0.01 min
 Lab File: VW009043.D
 Acq: 07 Mar 2019 16:48

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

Tot Ion:	180	Resp:	9370
Ion Ratio	Lower	Upper	
180	100		
182	99.5	48.1	144.3
145	32.1	15.8	47.3

Manual Integrations
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 3/8/2019 12:06:20 PM



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

