

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW050919\
 Data File : VW010339.D
 Acq On : 09 May 2019 16:24
 Operator : SY/VA
 Sample : K2241-01
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

Manual Integrations
 APPROVED

MMDadoda
 5/10/2019 10:07:42 AM

Quant Time: May 10 03:44:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W050919S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 10 03:38:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	1265785	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	2058278	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	1821926	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	898066	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	749207	55.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.34%	
35) Dibromofluoromethane	7.88	113	637516	52.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.86%	
50) Toluene-d8	10.32	98	2611827	53.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.50%	
62) 4-Bromofluorobenzene	12.62	95	899204	52.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.16%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	54809	5.343	ug/l	100
3) Chloromethane	2.21	50	62012	4.786	ug/l	97
4) Vinyl Chloride	2.36	62	74158	4.605	ug/l	98
5) Bromomethane	2.78	94	44232	4.763	ug/l	95
6) Chloroethane	2.92	64	39272	4.217	ug/l	95
7) Trichlorofluoromethane	3.25	101	34290	4.254	ug/l	95
8) Diethyl Ether	3.67	74	30615	4.320	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	4.06	101	53406	4.043	ug/l	97
10) Methyl Iodide	4.26	142	80521	4.305	ug/l	94
11) Tert butyl alcohol	5.17	59	21285	22.397	ug/l #	85
12) 1,1-Dichloroethene	4.03	96	60582	4.389	ug/l	92
13) Acrolein	3.89	56	27973	22.294	ug/l #	75
14) Allyl chloride	4.66	41	85796	4.164	ug/l	91
15) Acrylonitrile	5.37	53	83812	21.337	ug/l	97
16) Acetone	4.11	43	105107	29.961	ug/l	97
17) Carbon Disulfide	4.37	76	177739	4.258	ug/l	97
18) Methyl Acetate	4.67	43	38414	4.421	ug/l	92
19) Methyl tert-butyl Ether	5.42	73	67625	4.116	ug/l	97
20) Methylene Chloride	4.92	84	76086	5.200	ug/l	90
21) trans-1,2-Dichloroethene	5.41	96	62467	4.204	ug/l	89
22) Diisopropyl ether	6.31	45	159409	3.987	ug/l	99
23) Vinyl Acetate	6.25	43	516198	18.801	ug/l #	95
24) 1,1-Dichloroethane	6.21	63	115565	4.293	ug/l	98
25) 2-Butanone	7.17	43	108283	20.177	ug/l	99
26) 2,2-Dichloropropane	7.16	77	57460	4.290	ug/l	96
27) cis-1,2-Dichloroethene	7.17	96	62640	4.100	ug/l	97
28) Bromochloromethane	7.51	49	37681	3.796	ug/l	99
29) Tetrahydrofuran	7.53	42	68461	19.722	ug/l	98
30) Chloroform	7.67	83	108861	4.321	ug/l	99
31) Cyclohexane	7.95	56	132388	4.803	ug/l #	76
32) 1,1,1-Trichloroethane	7.87	97	84866	4.349	ug/l	99
36) 1,1-Dichloropropene	8.07	75	91194	4.086	ug/l	98
37) Ethyl Acetate	7.25	43	50468	4.247	ug/l	98
38) Carbon Tetrachloride	8.06	117	79995	4.181	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.33	83	106815	3.912	ug/l	95
40) Benzene	8.32	78	253744	4.152	ug/l	99
41) Methacrylonitrile	7.48	41	24879	3.733	ug/l	93
42) 1,2-Dichloroethane	8.40	62	75078	4.291	ug/l	98
43) Isopropyl Acetate	8.42	43	78060	3.961	ug/l	99
44) Trichloroethene	9.09	130	63918	4.177	ug/l	98
45) 1,2-Dichloropropane	9.37	63	63597	4.186	ug/l	92
46) Dibromomethane	9.46	93	33485	4.266	ug/l	98
47) Bromodichloromethane	9.64	83	77177	4.099	ug/l	96
48) Methyl methacrylate	9.44	41	33667	3.613	ug/l	89
49) 1,4-Dioxane	9.45	88	11343	82.873	ug/l #	93
51) 4-Methyl-2-Pentanone	10.21	43	219915	19.461	ug/l	97
52) Toluene	10.39	92	159118	4.259	ug/l	98
53) t-1,3-Dichloropropene	10.60	75	72352	3.794	ug/l	98
54) cis-1,3-Dichloropropene	10.07	75	86667	3.837	ug/l #	89
55) 1,1,2-Trichloroethane	10.79	97	46952	4.212	ug/l	99
56) Ethyl methacrylate	10.65	69	50825	3.453	ug/l #	88
57) 1,3-Dichloropropane	10.93	76	81723	4.101	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.93	63	117762	16.708	ug/l	100
59) 2-Hexanone	10.97	43	147756	18.494	ug/l	99
60) Dibromochloromethane	11.13	129	47612	3.969	ug/l	99
61) 1,2-Dibromoethane	11.24	107	43739	4.087	ug/l	100
64) Tetrachloroethene	10.87	164	52934	4.157	ug/l	97
65) Chlorobenzene	11.66	112	160136	4.246	ug/l	94
66) 1,1,1,2-Tetrachloroethane	11.73	131	51591	4.047	ug/l	98
67) Ethyl Benzene	11.73	91	274643	3.958	ug/l	100
68) m/p-Xylenes	11.84	106	197542	7.663	ug/l	100
69) o-Xylene	12.16	106	85713	3.676	ug/l	100
70) Styrene	12.18	104	147383	3.627	ug/l	98
71) Bromoform	12.35	173	27496	3.773	ug/l #	95
73) Isopropylbenzene	12.46	105	240633	3.676	ug/l	99
74) N-amyl acetate	12.27	43	58924	3.484	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.72	83	60064	4.164	ug/l	97
76) 1,2,3-Trichloropropane	12.77	75	53015m	5.063	ug/l	
77) Bromobenzene	12.75	156	59624	4.034	ug/l	94
78) n-propylbenzene	12.80	91	316446	3.914	ug/l	99
79) 2-Chlorotoluene	12.90	91	183508	3.986	ug/l	99
80) 1,3,5-Trimethylbenzene	12.94	105	207178	3.754	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.51	75	16522	3.563	ug/l	98
82) 4-Chlorotoluene	12.99	91	194247	4.027	ug/l	98
83) tert-Butylbenzene	13.21	119	167101	3.630	ug/l	98
84) 1,2,4-Trimethylbenzene	13.26	105	207913	3.791	ug/l	98
85) sec-Butylbenzene	13.38	105	248079	3.651	ug/l	98
86) p-Isopropyltoluene	13.50	119	212701	3.525	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	131930	4.470	ug/l	98
88) 1,4-Dichlorobenzene	13.58	146	126117	4.306	ug/l	93
89) n-Butylbenzene	13.83	91	225828	3.733	ug/l	99
90) Hexachloroethane	14.10	117	42909	3.835	ug/l	92
91) 1,2-Dichlorobenzene	13.87	146	110721	4.238	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.49	75	11168	4.300	ug/l	95

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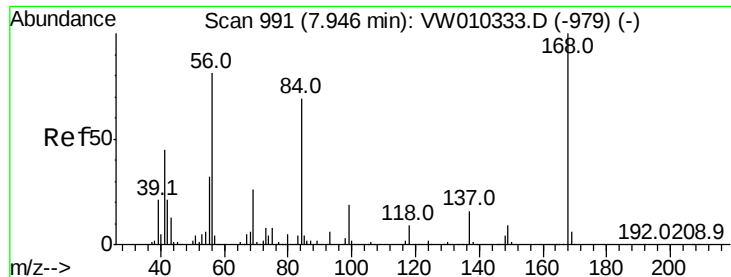
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	76962	4.316	ug/l	98
94) Hexachlorobutadiene	15.24	225	44546	3.897	ug/l	98
95) Naphthalene	15.37	128	127535	3.491	ug/l	99
96) 1,2,3-Trichlorobenzene	15.56	180	58954	3.660	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:168 Resp: 1265785

Ion Ratio Lower Upper

168 100

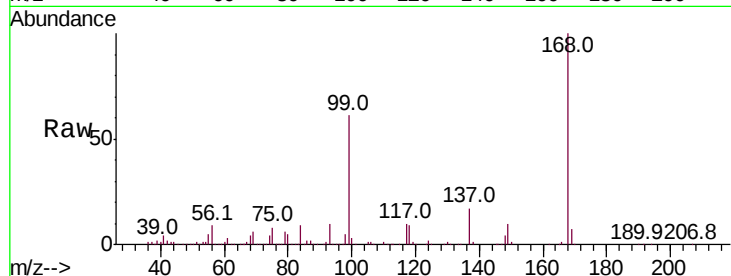
99 60.5 48.4 72.6

Manual Integrations

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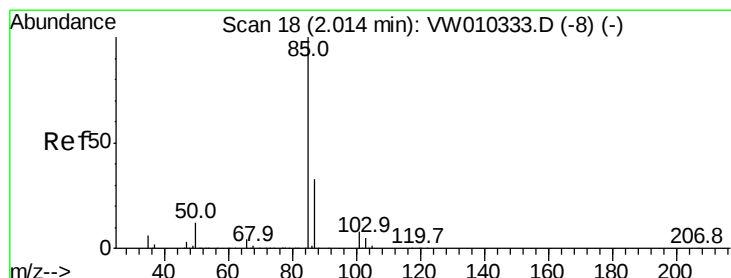
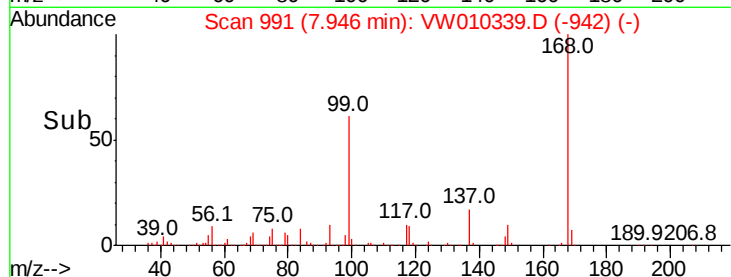
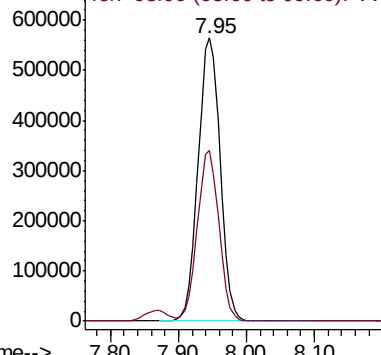
MMDadoda

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 5.343 ug/l

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW010339.D

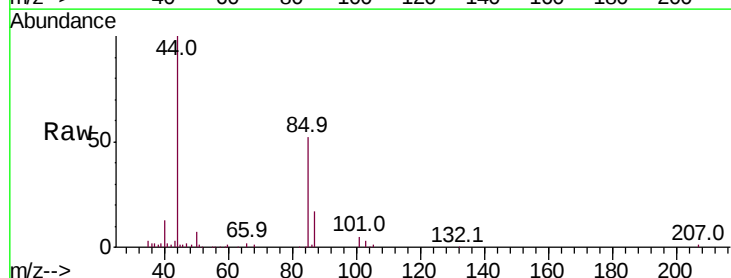
Acq: 09 May 2019 16:24

Tgt Ion: 85 Resp: 54809

Ion Ratio Lower Upper

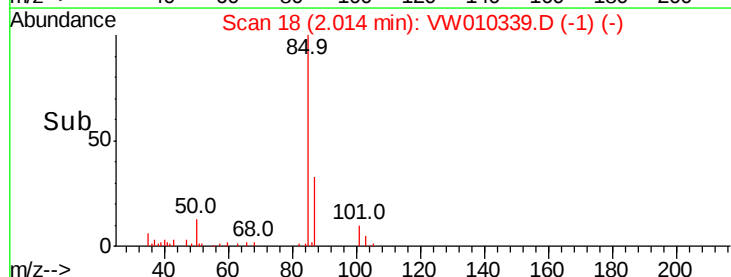
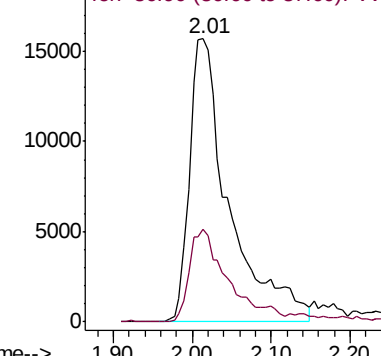
85 100

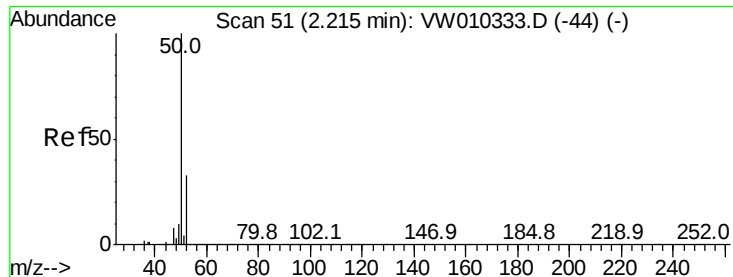
87 32.8 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: 4.786 ug/l

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 50 Resp: 62012

Ion Ratio Lower Upper

50 100

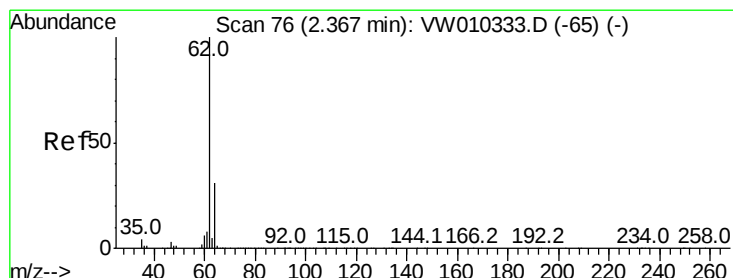
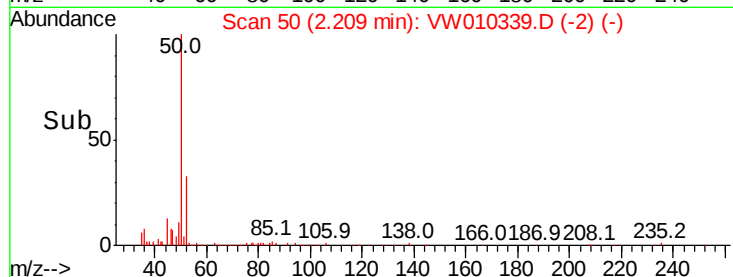
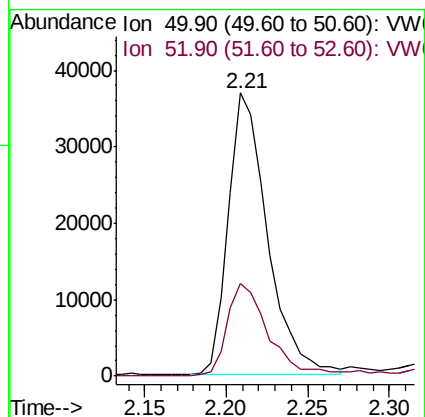
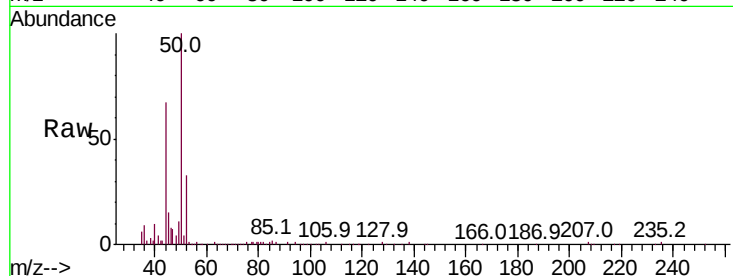
52 32.8 25.0 37.6

Manual Integrations

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#4

Vinyl Chloride

Concen: 4.605 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW010339.D

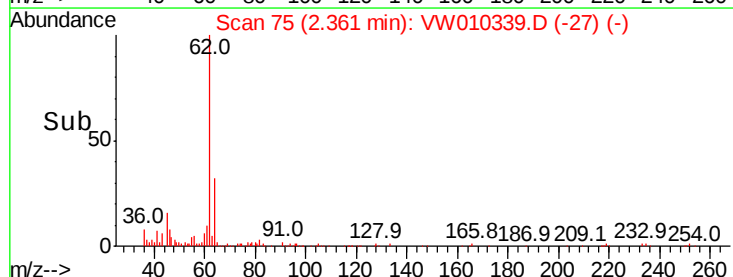
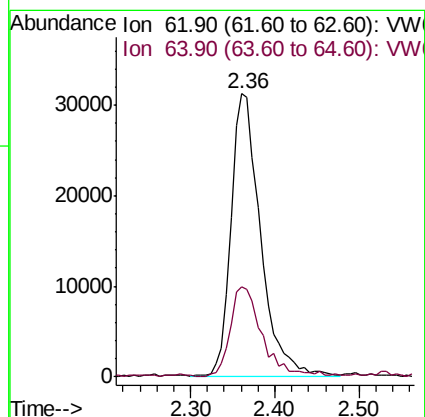
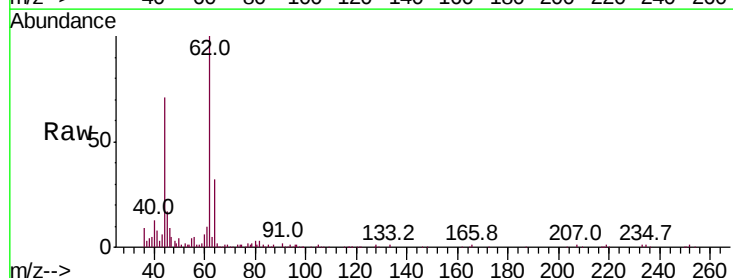
Acq: 09 May 2019 16:24

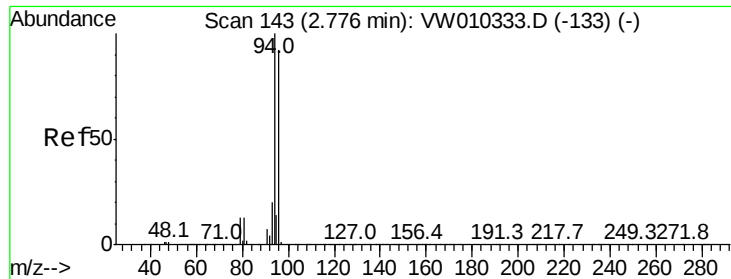
Tgt Ion: 62 Resp: 74158

Ion Ratio Lower Upper

62 100

64 31.0 25.9 38.9





#5

Bromomethane

Concen: 4.763 ug/l

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Instrument :

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ClientSampleId :

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Tot Ion: 94 Resp: 44232

Ion Ratio Lower Upper

94 100

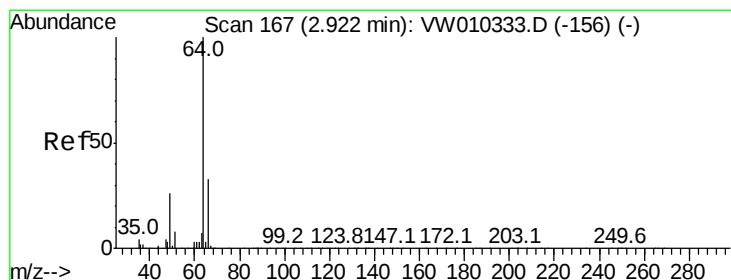
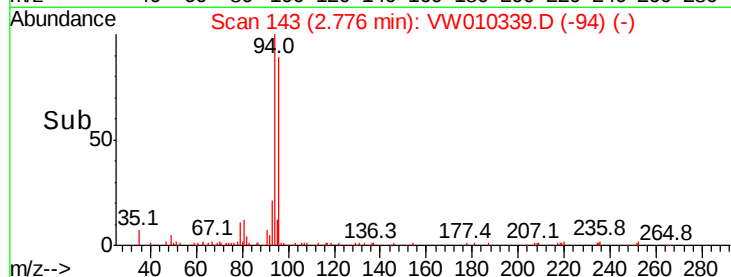
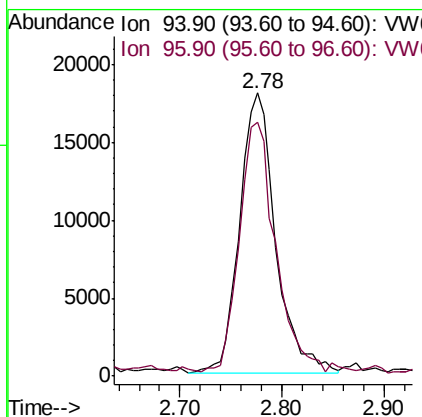
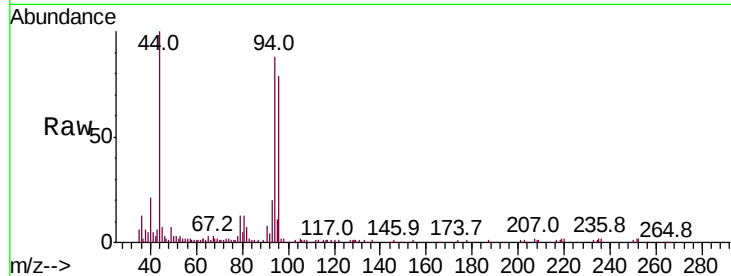
96 88.1 74.2 111.2

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#6

Chloroethane

Concen: 4.217 ug/l

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW010339.D

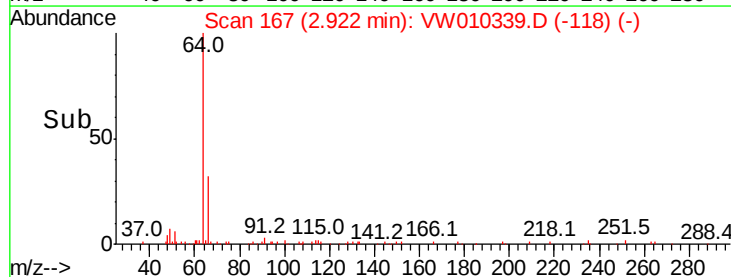
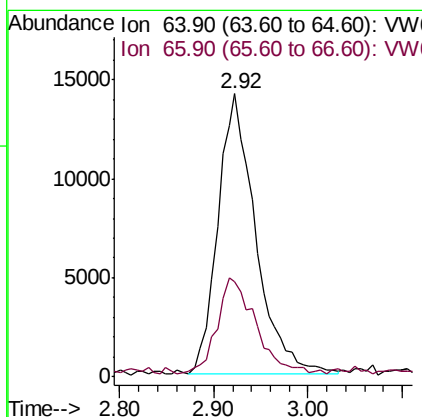
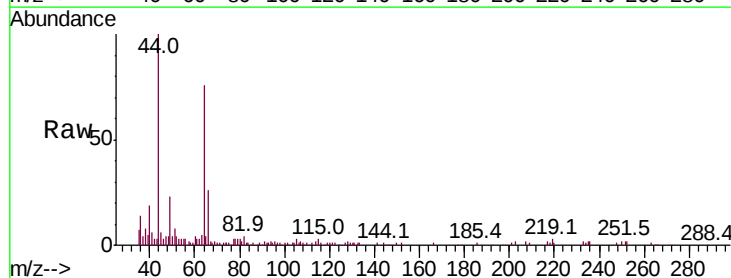
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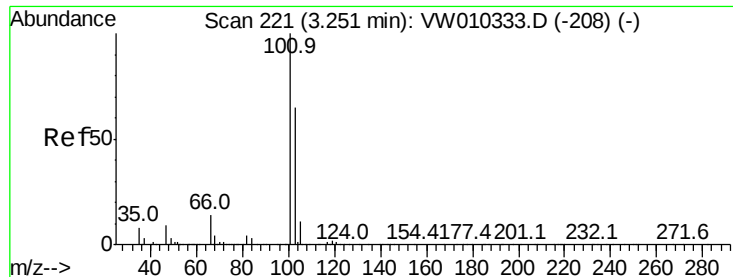
Tgt Ion: 64 Resp: 39272

Ion Ratio Lower Upper

64 100

66 31.6 23.4 35.0





#7

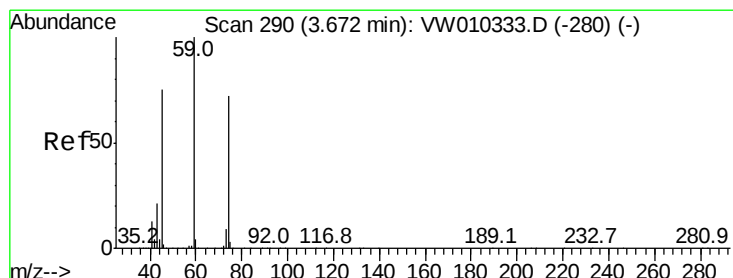
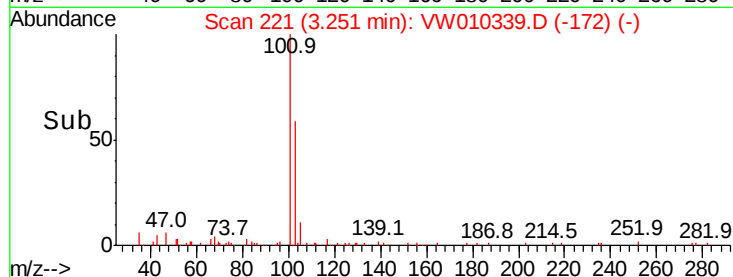
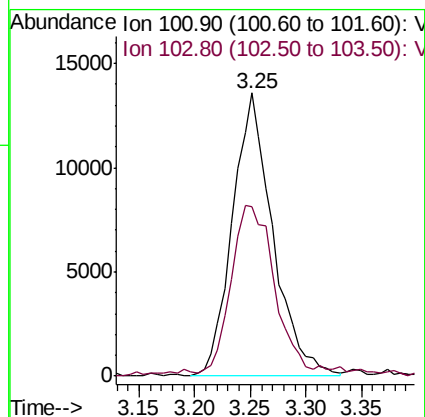
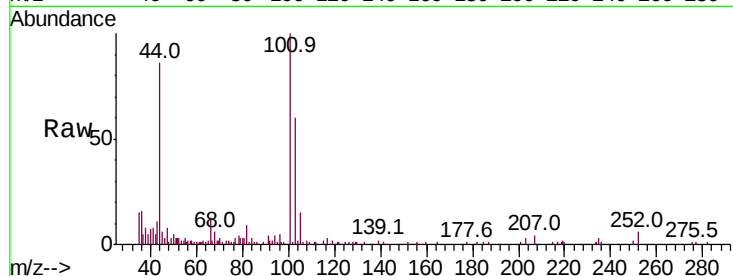
Trichlorofluoromethane
 Concen: 4.254 ug/l
 RT: 3.25 min Scan# 221
 Delta R.T. 0.00 min
 Lab File: VW010339.D
 Acq: 09 May 2019 16:24

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Tot Ion	Ratio	Lower	Upper
101	100		
103	58.5	49.8	74.6

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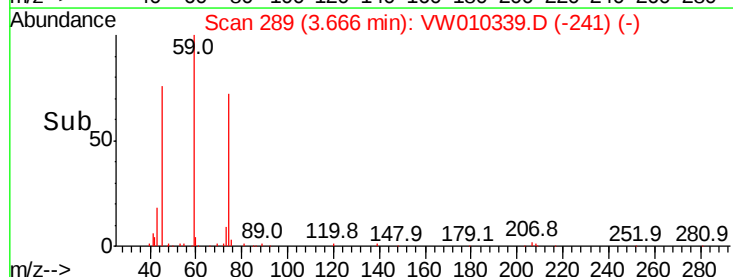
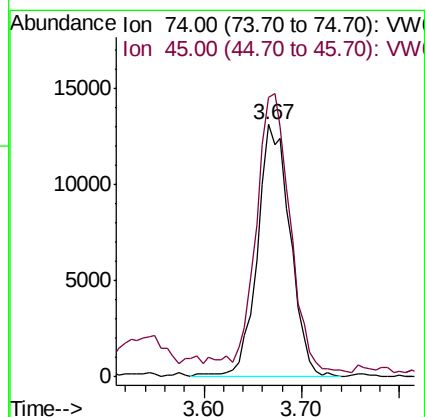
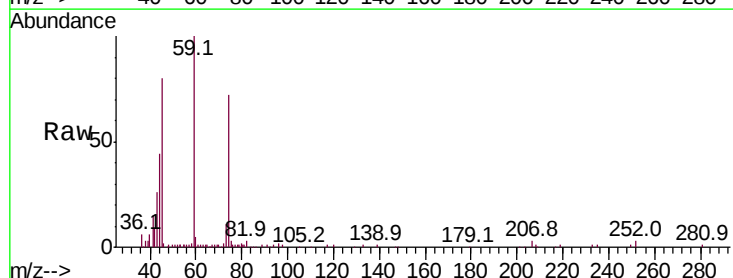
MMDadoda
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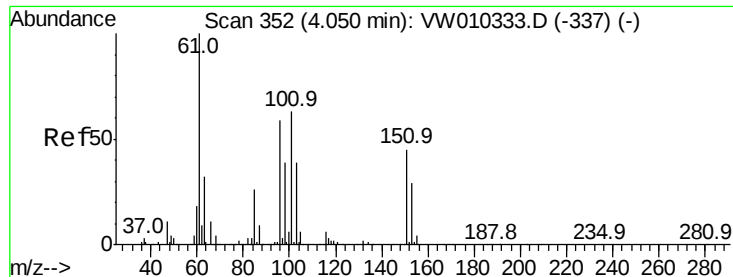


#8

Diethyl Ether
 Concen: 4.320 ug/l
 RT: 3.67 min Scan# 289
 Delta R.T. -0.01 min
 Lab File: VW010339.D
 Acq: 09 May 2019 16:24

Tgt Ion	Ratio	Lower	Upper
74	100		
45	112.6	56.0	168.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.043 ug/l

RT: 4.06 min Scan# 353

Delta R.T. 0.01 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Instrument :

MSVOA_W

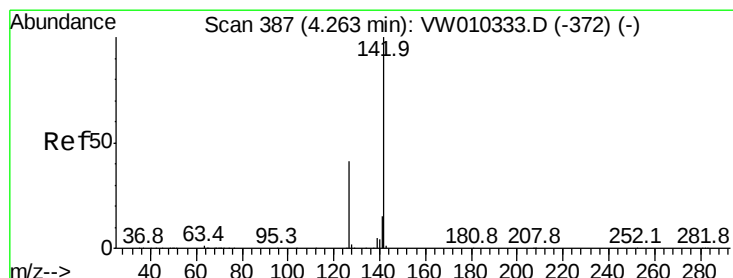
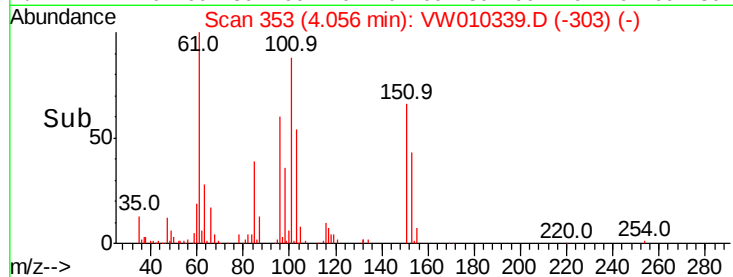
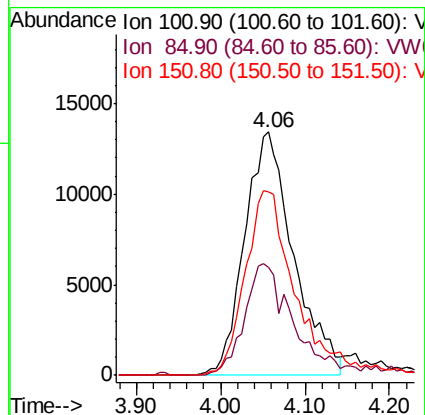
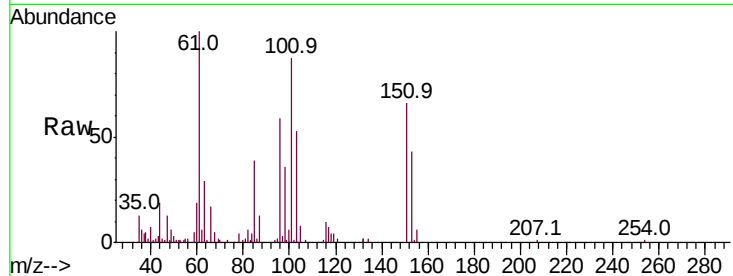
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	101	Resp:	53406
Ion Ratio	Lower	Upper	
101	100		
85	45.5	36.3	54.5
151	78.8	60.2	90.2

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#10

Methyl Iodide

Concen: 4.305 ug/l

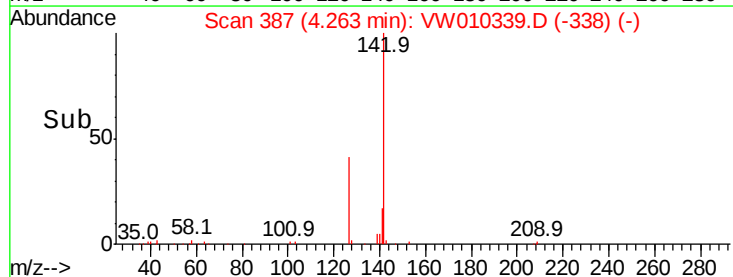
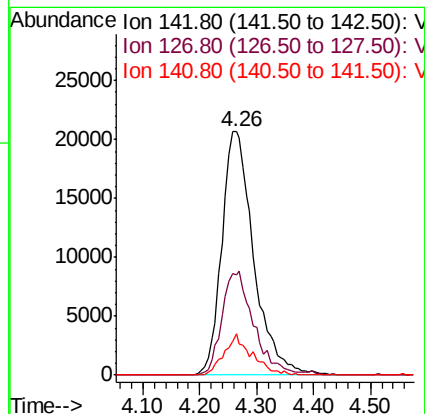
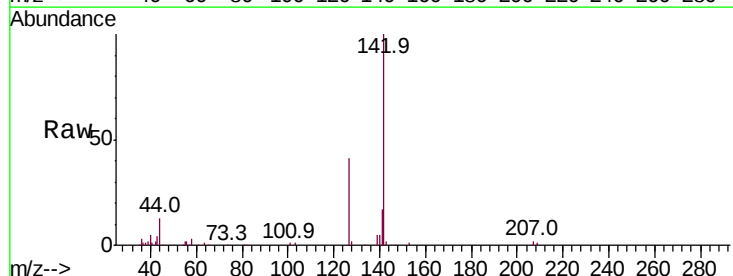
RT: 4.26 min Scan# 387

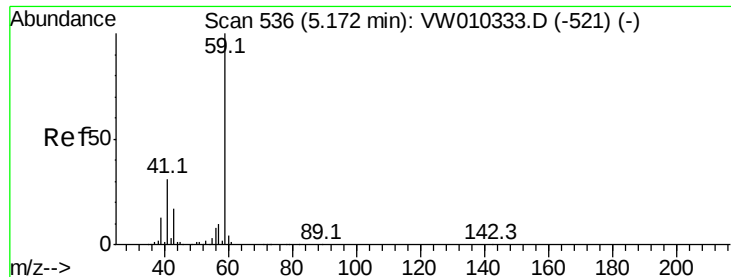
Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Tgt Ion:	142	Resp:	80521
Ion Ratio	Lower	Upper	
142	100		
127	42.5	38.1	57.1
141	14.5	12.2	18.2





#11

Tert butyl alcohol

Concen: 22.397 ug/l

RT: 5.17 min Scan# 536

Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

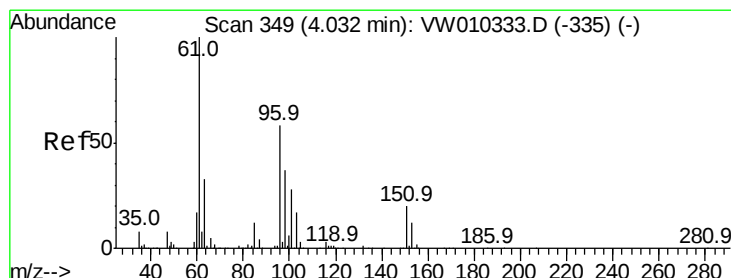
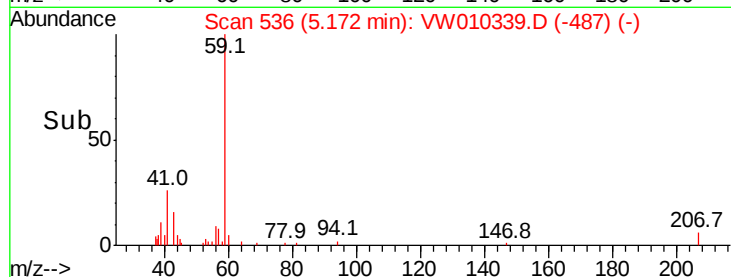
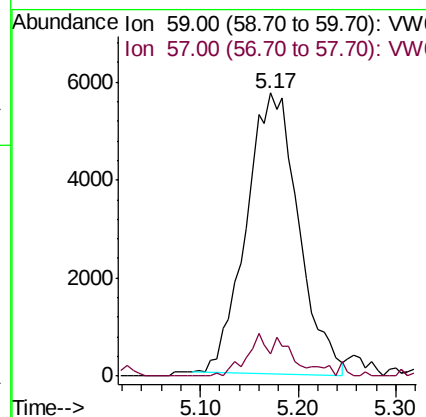
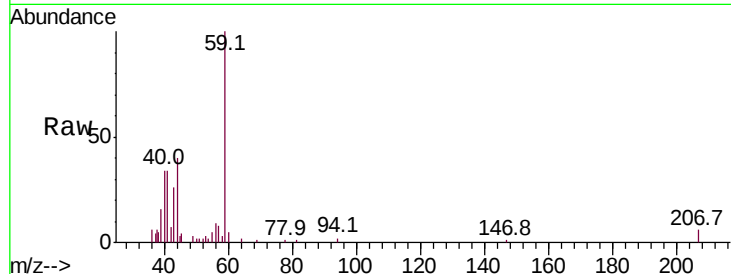
Instrument :
MSVOA_W

ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
59	100		
57	5.4	9.0	13.4#

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#12

1,1-Dichloroethene

Concen: 4.389 ug/l

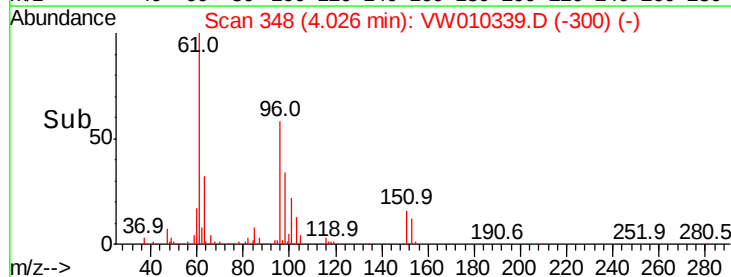
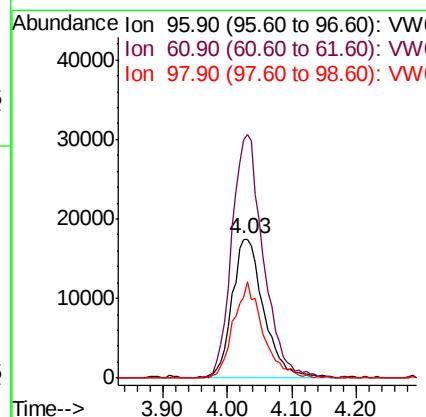
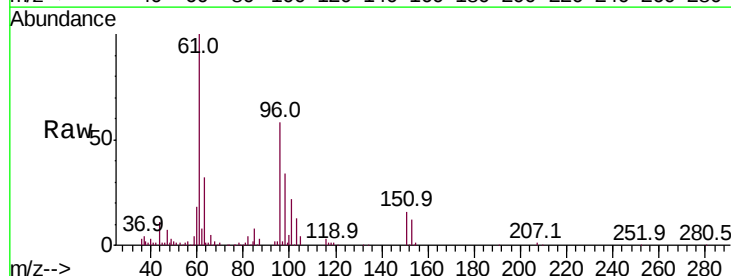
RT: 4.03 min Scan# 348

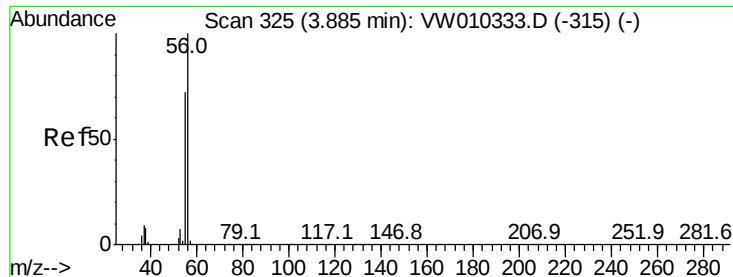
Delta R.T. -0.01 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Tgt Ion	Ratio	Lower	Upper
96	100		
61	171.5	147.4	221.2
98	58.2	49.7	74.5





#13

Acrolein

Concen: 22.294 ug/l

RT: 3.89 min Scan# 326

Delta R.T. 0.01 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 56 Resp: 27973

Ion Ratio Lower Upper

56 100

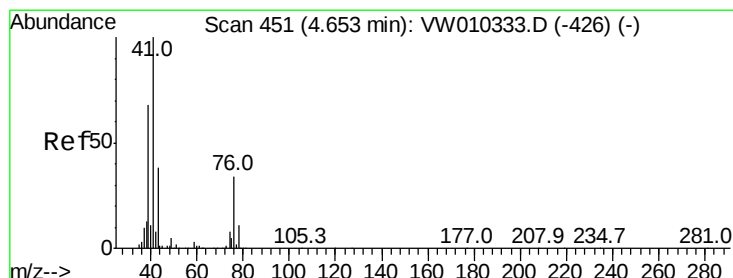
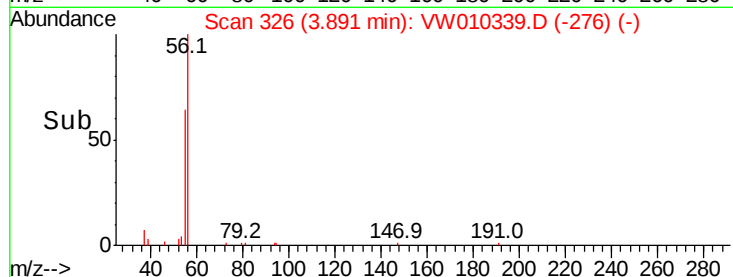
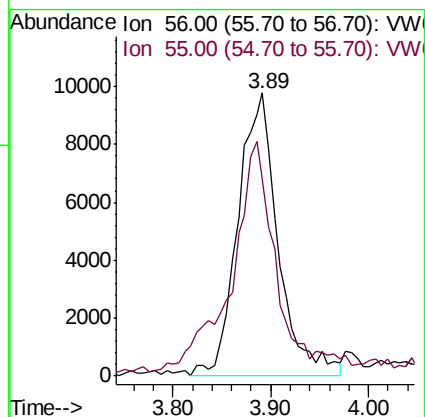
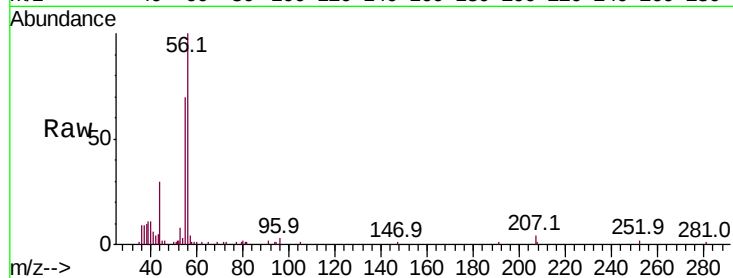
55 87.6 54.2 81.2#

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#14

Allyl chloride

Concen: 4.164 ug/l

RT: 4.66 min Scan# 452

Delta R.T. 0.01 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

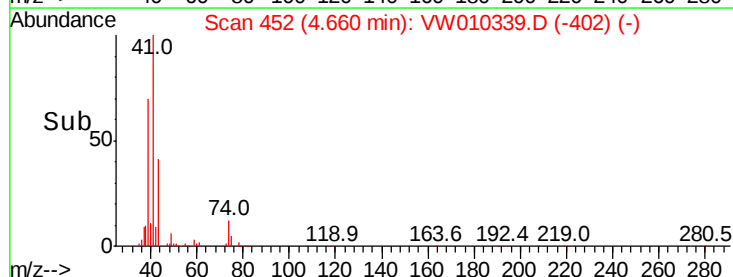
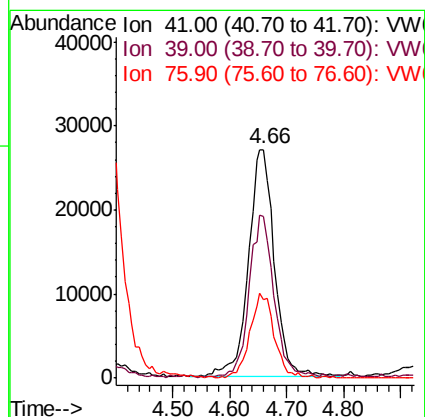
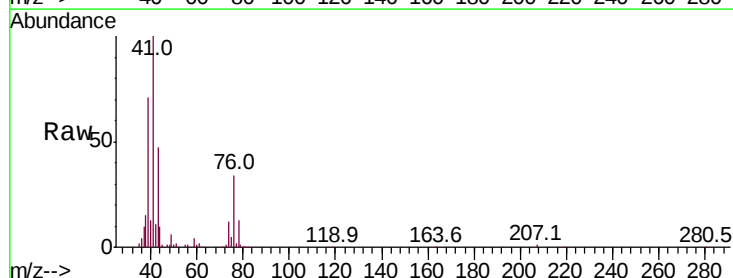
Tgt Ion: 41 Resp: 85796

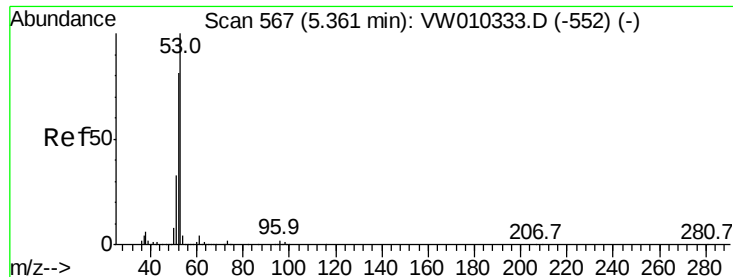
Ion Ratio Lower Upper

41 100

39 67.0 60.2 90.4

76 35.0 25.0 37.6





#15

Acrylonitrile

Concen: 21.337 ug/l

RT: 5.37 min Scan# 568

Delta R.T. 0.01 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Instrument :

MSVOA_W

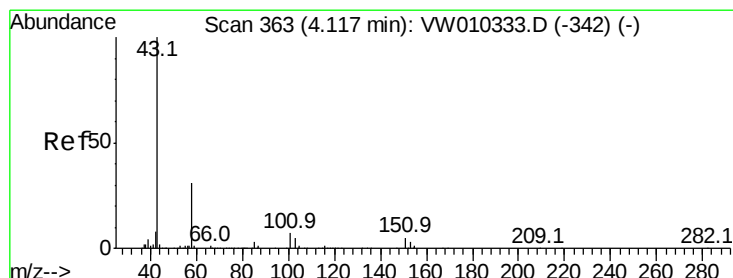
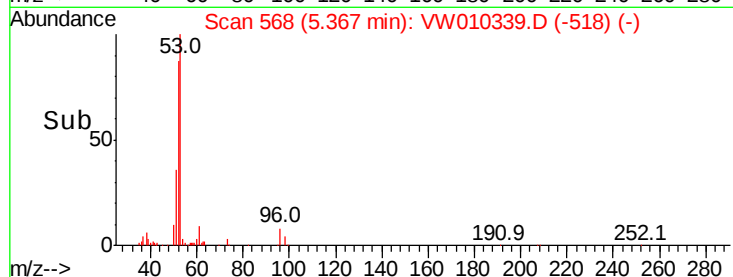
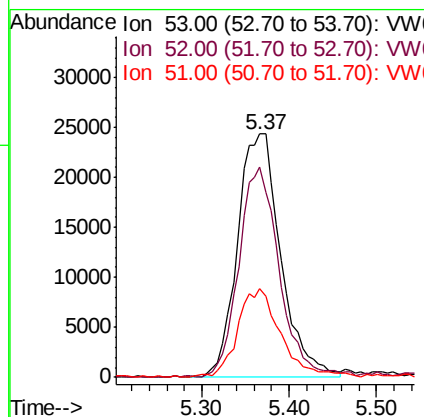
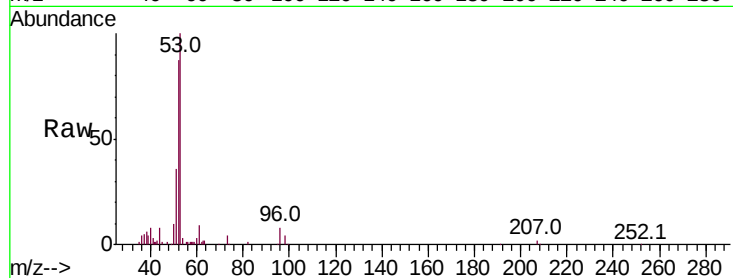
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	53	Resp:	83812
Ion	Ratio	Lower	Upper
53	100		
52	81.0	66.6	100.0
51	36.4	30.3	45.5

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#16

Acetone

Concen: 29.961 ug/l

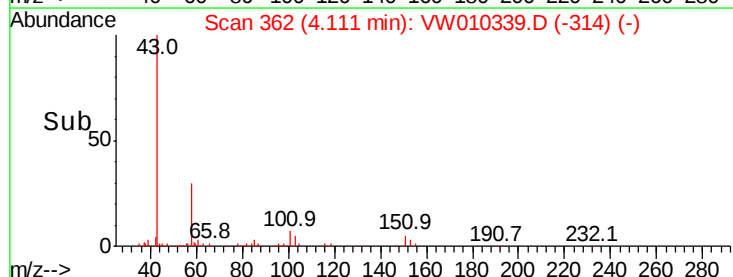
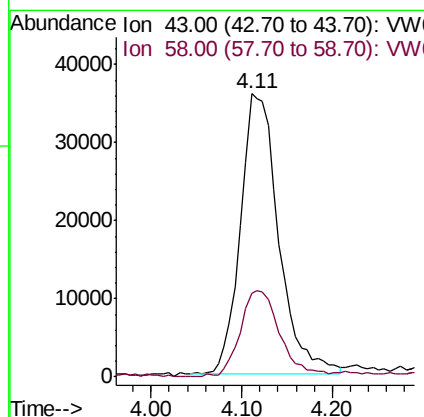
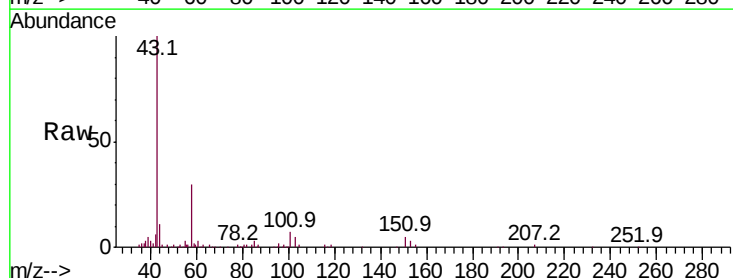
RT: 4.11 min Scan# 362

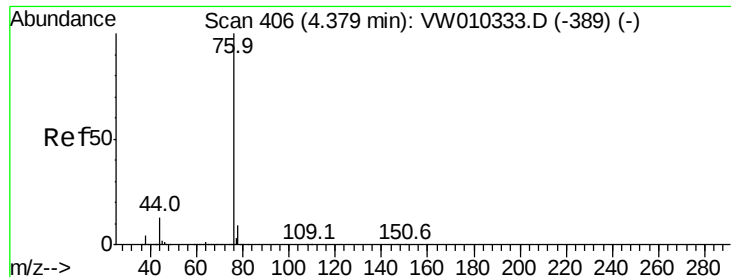
Delta R.T. -0.01 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Tgt Ion:	43	Resp:	105107
Ion	Ratio	Lower	Upper
43	100		
58	29.8	22.7	34.1





#17

Carbon Disulfide

Concen: 4.258 ug/l

RT: 4.37 min Scan# 405

Delta R.T. -0.01 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Tot Ion: 76 Resp: 177739

Ion Ratio Lower Upper

76 100

78 10.2 7.4 11.2

Instrument :

MSVOA_W

ClientSampleId :

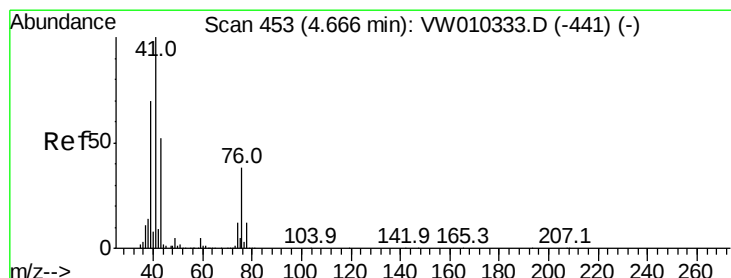
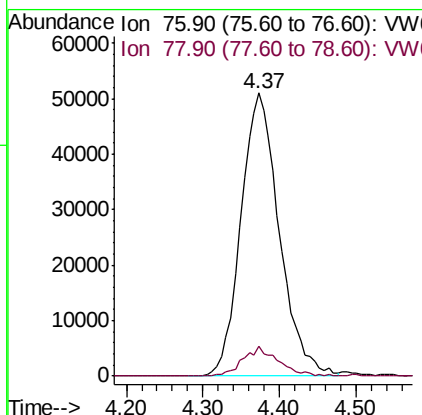
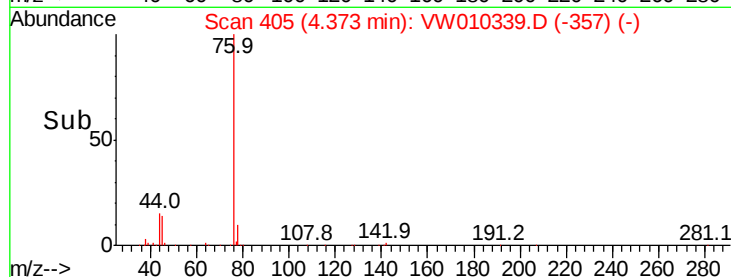
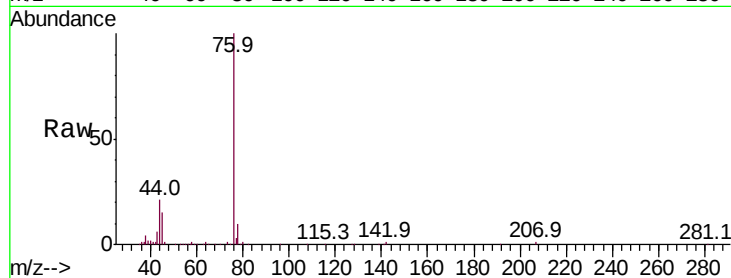
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#18

Methyl Acetate

Concen: 4.421 ug/l

RT: 4.67 min Scan# 453

Delta R.T. 0.00 min

Lab File: VW010339.D

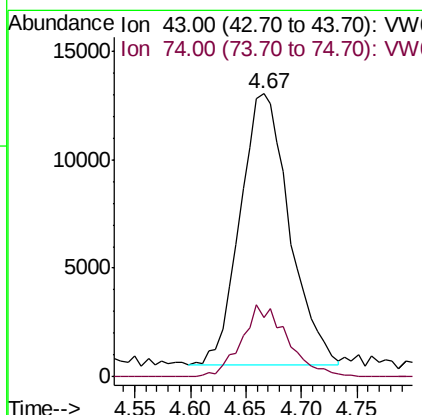
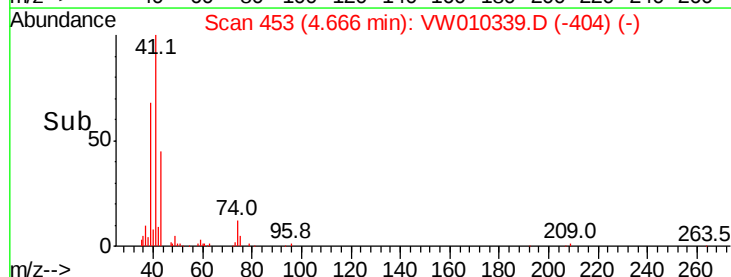
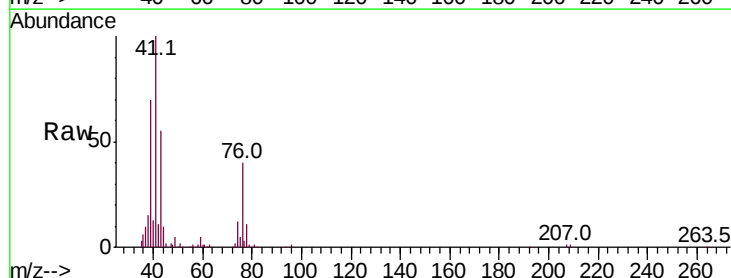
Acq: 09 May 2019 16:24

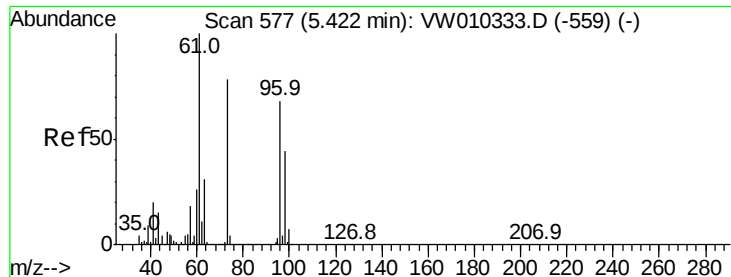
Tgt Ion: 43 Resp: 38414

Ion Ratio Lower Upper

43 100

74 24.7 16.8 25.2





#19

Methvl tert-butvl Ether

Concen: 4.116 ug/l

RT: 5.42 min Scan# 577

Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Instrument :
MSVOA_W

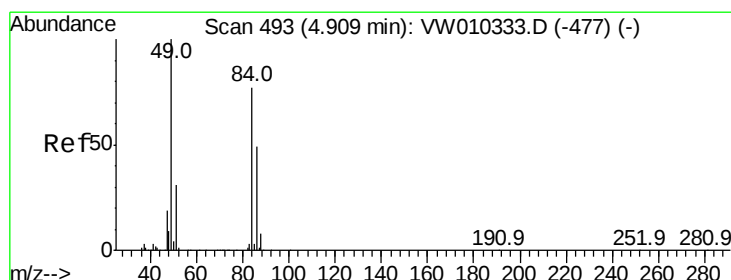
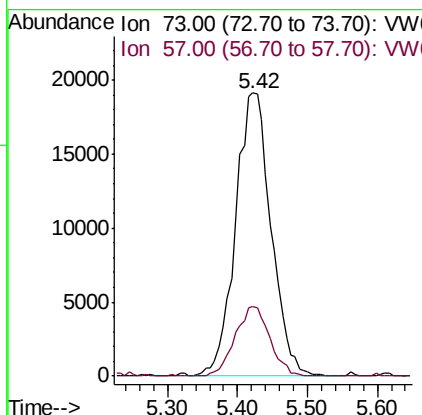
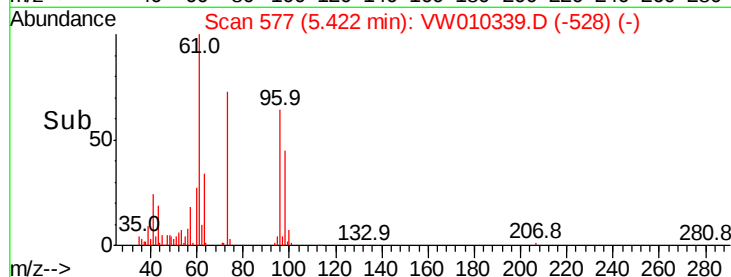
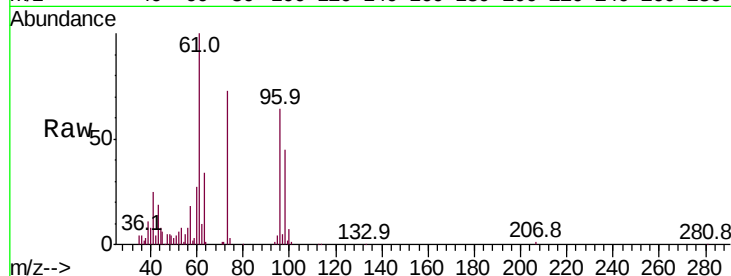
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 73 Resp: 67625

Ion	Ratio	Lower	Upper
73	100		
57	24.5	18.5	27.7

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#20

Methylene Chloride

Concen: 5.200 ug/l

RT: 4.92 min Scan# 494

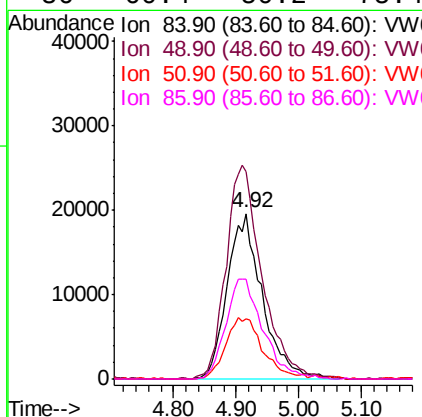
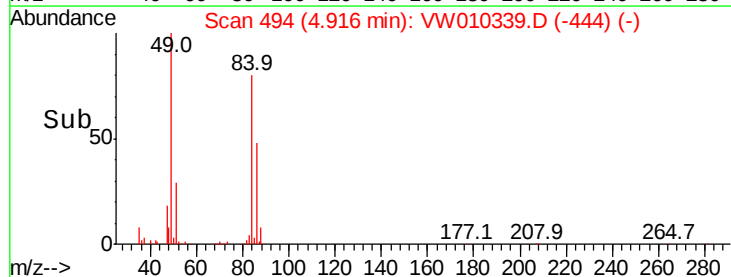
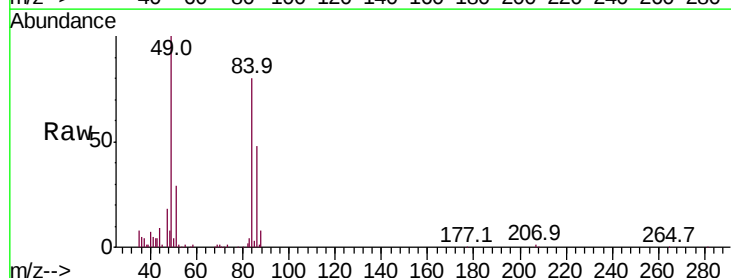
Delta R.T. 0.01 min

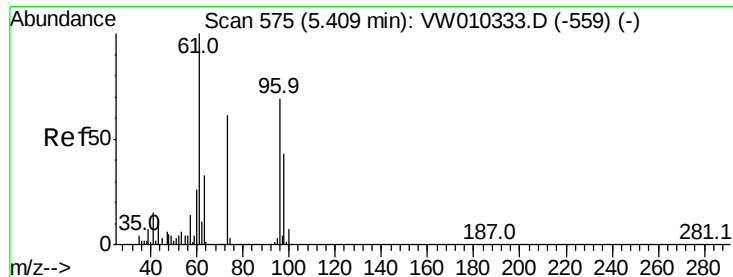
Lab File: VW010339.D

Acq: 09 May 2019 16:24

Tgt Ion: 84 Resp: 76086

Ion	Ratio	Lower	Upper
84	100		
49	125.0	112.3	168.5
51	36.5	33.9	50.9
86	60.4	50.2	75.4





#21

trans-1,2-Dichloroethene

Concen: 4.204 ug/l

RT: 5.41 min Scan# 575

Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Instrument :

MSVOA_W

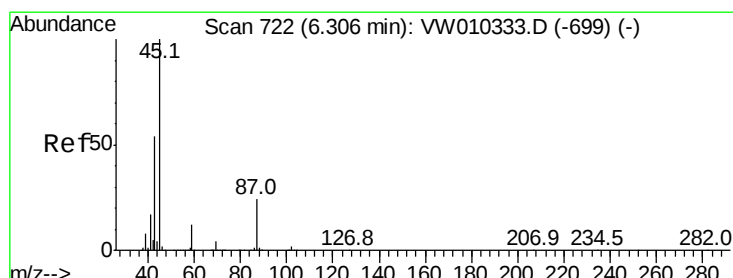
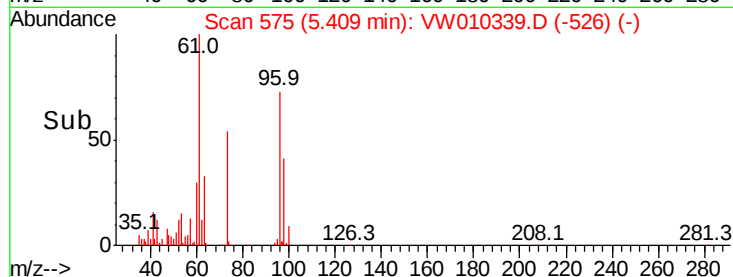
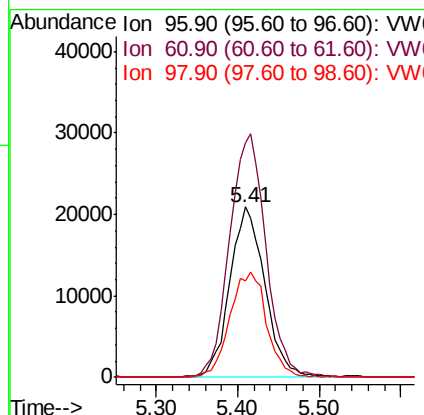
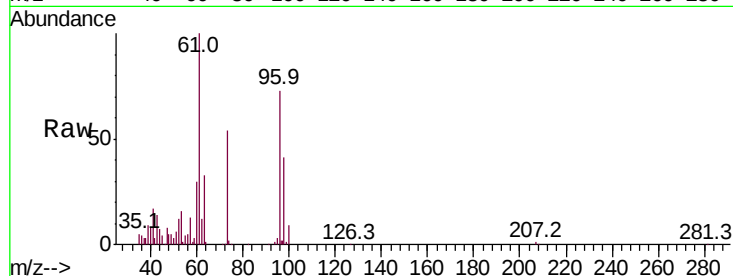
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	96	Resp:	62467
Ion	Ratio	Lower	Upper
96	100		
61	137.4	122.3	183.5
98	56.3	50.5	75.7

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#22

Diisopropyl ether

Concen: 3.987 ug/l

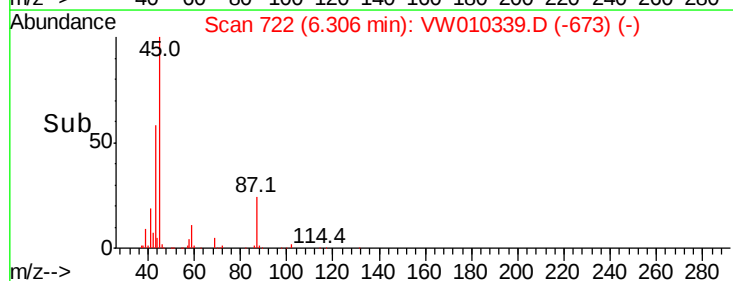
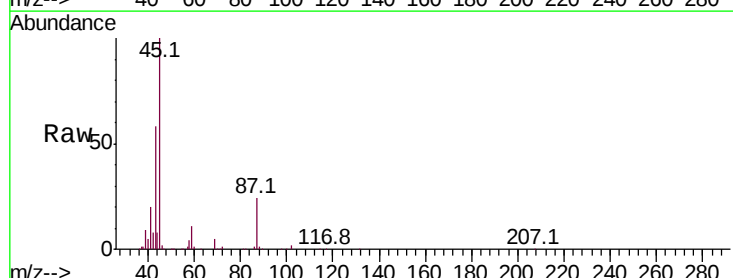
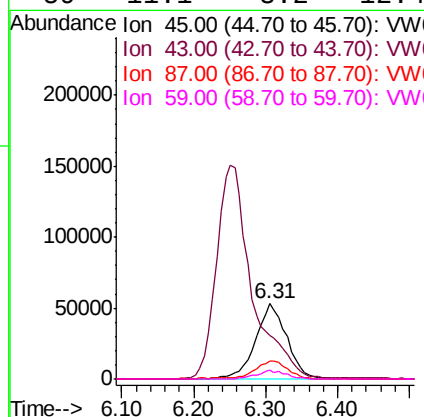
RT: 6.31 min Scan# 722

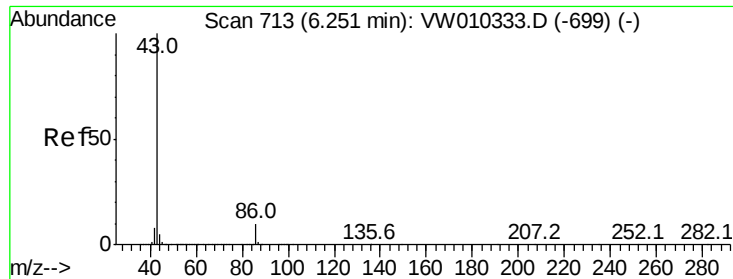
Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Tgt Ion:	45	Resp:	159409
Ion	Ratio	Lower	Upper
45	100		
43	56.6	46.1	69.1
87	23.4	18.3	27.5
59	11.1	8.2	12.4





#23

Vinyl Acetate

Concen: 18.801 ug/l

RT: 6.25 min Scan# 713

Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 43 Resp: 516198

Ion Ratio Lower Upper

43 100

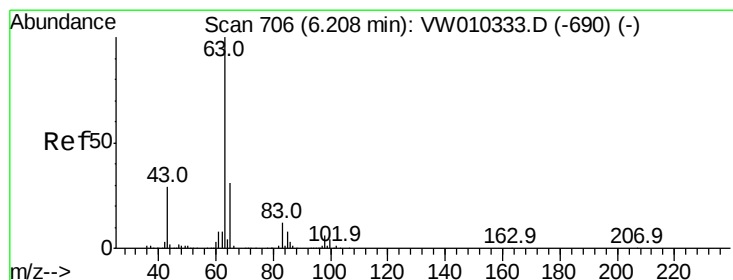
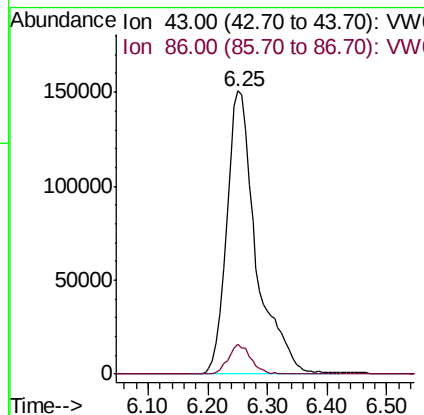
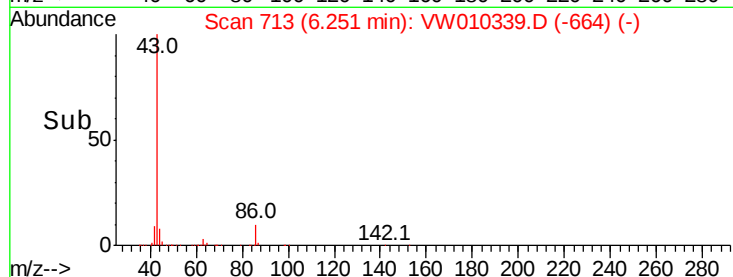
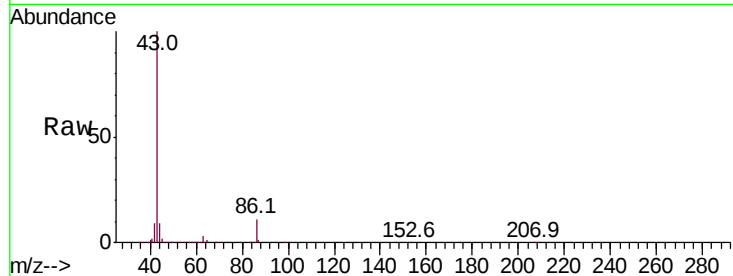
86 10.7 7.0 10.6#

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#24

1,1-Dichloroethane

Concen: 4.293 ug/l

RT: 6.21 min Scan# 706

Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

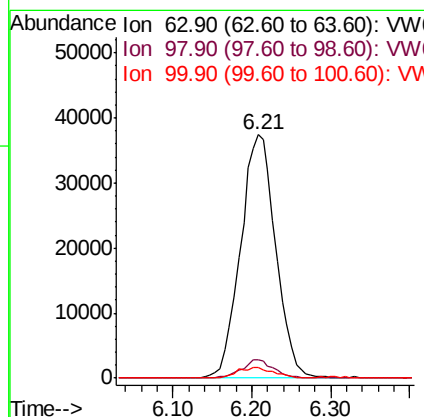
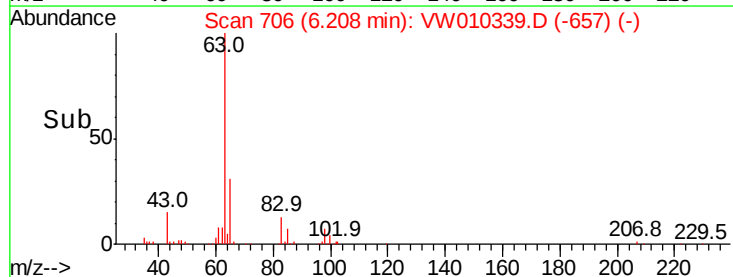
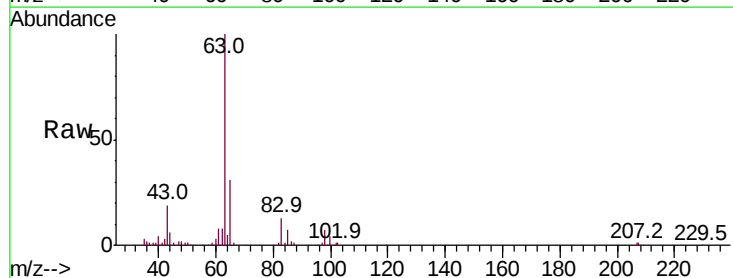
Tgt Ion: 63 Resp: 115565

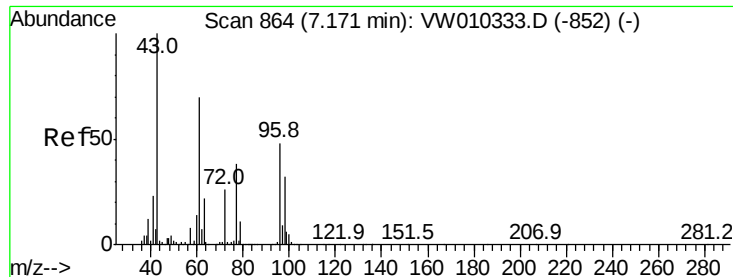
Ion Ratio Lower Upper

63 100

98 7.3 3.3 9.8

100 4.3 2.0 6.0





#25

2-Butanone

Concen: 20.177 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 43 Resp: 108283

Ion Ratio Lower Upper

43 100

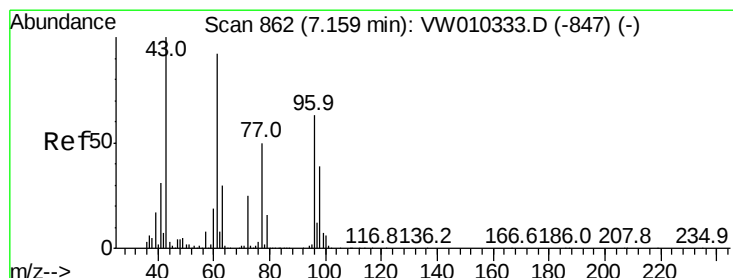
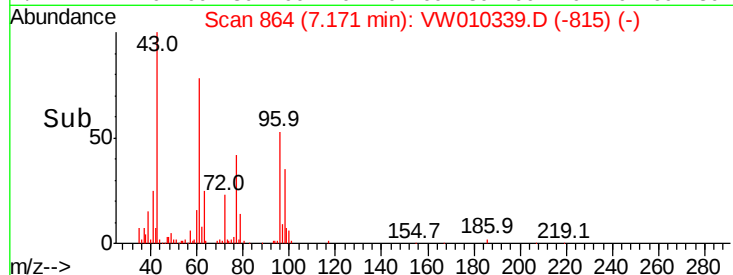
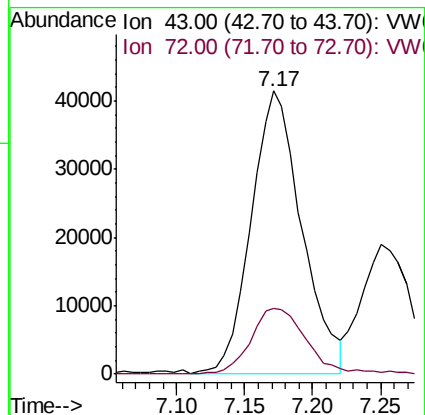
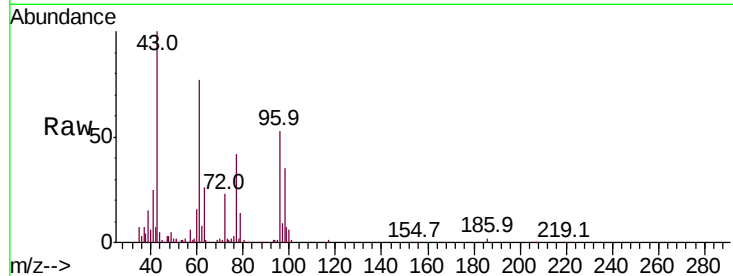
72 23.3 19.1 28.7

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#26

2,2-Dichloropropane

Concen: 4.290 ug/l

RT: 7.16 min Scan# 862

Delta R.T. 0.00 min

Lab File: VW010339.D

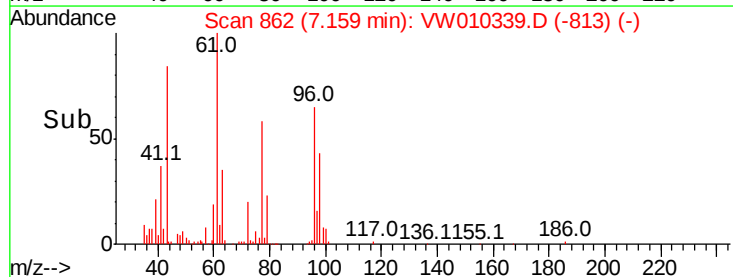
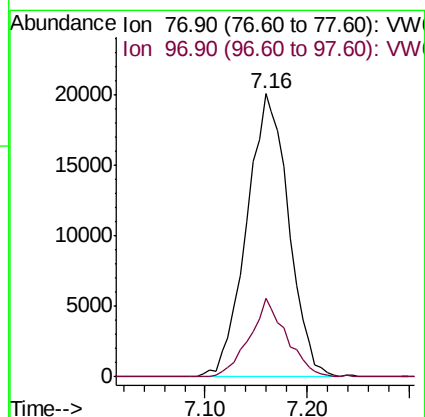
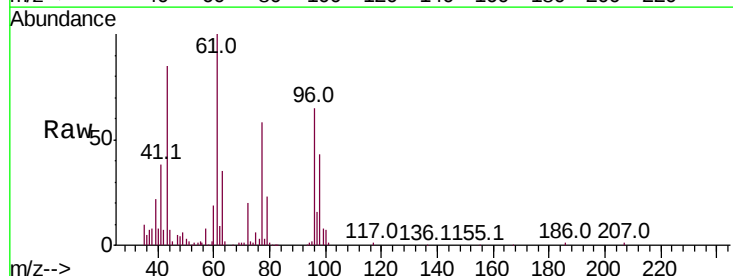
Acq: 09 May 2019 16:24

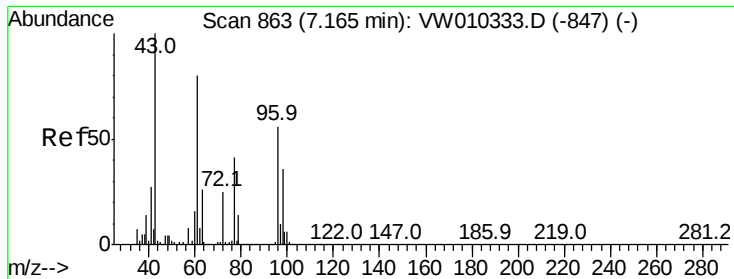
Tgt Ion: 77 Resp: 57460

Ion Ratio Lower Upper

77 100

97 24.6 11.3 33.9





#27

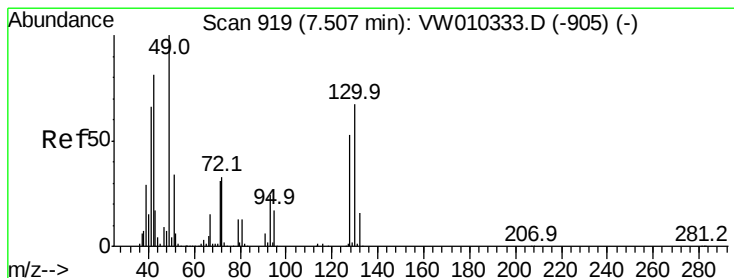
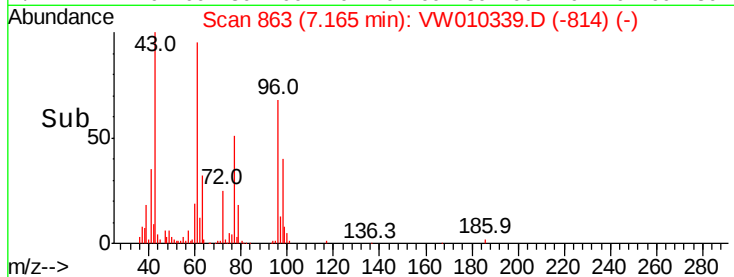
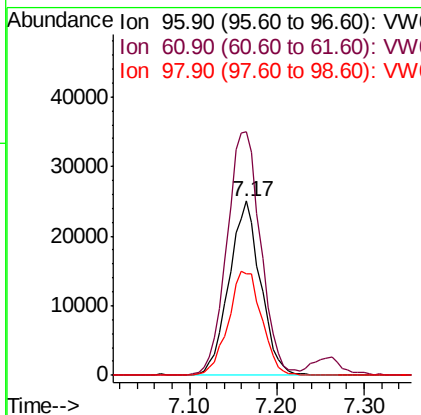
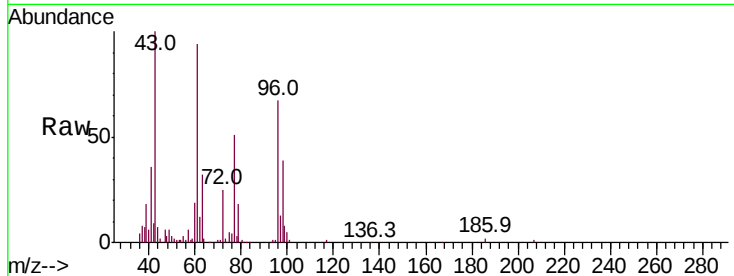
cis-1,2-Dichloroethene
Concen: 4.100 ug/l
RT: 7.17 min Scan# 863
Delta R.T. 0.00 min
Lab File: VW010339.D
Acq: 09 May 2019 16:24

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	150.2	0.0	309.4
98	63.0	0.0	128.6

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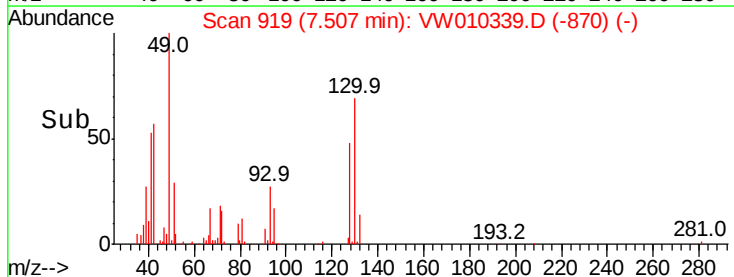
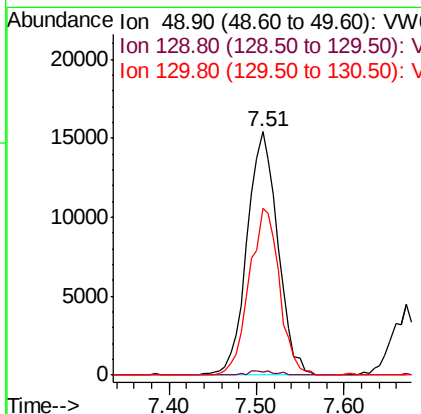
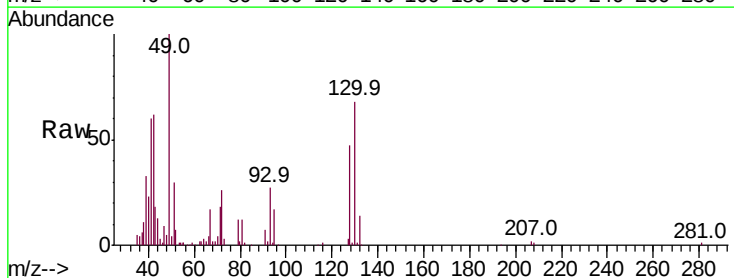
MMDadoda
5/10/2019 10:07:42 AM

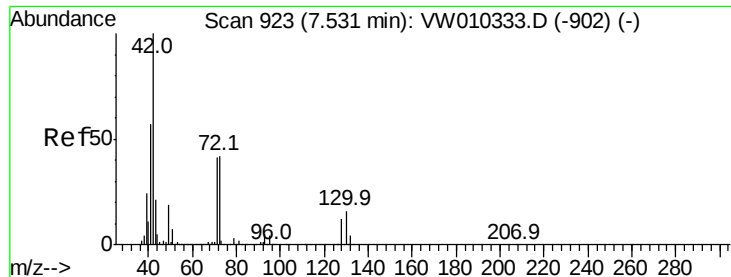


#28

Bromochloromethane
Concen: 3.796 ug/l
RT: 7.51 min Scan# 919
Delta R.T. 0.00 min
Lab File: VW010339.D
Acq: 09 May 2019 16:24

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.8
130	67.3	54.6	82.0





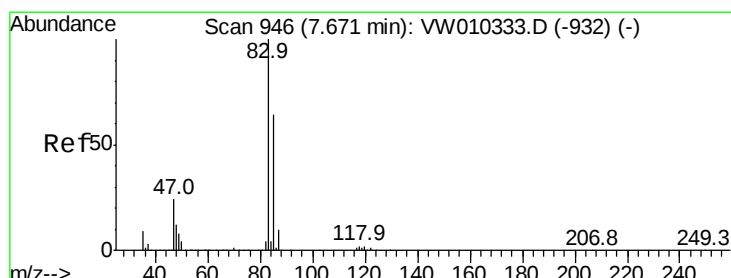
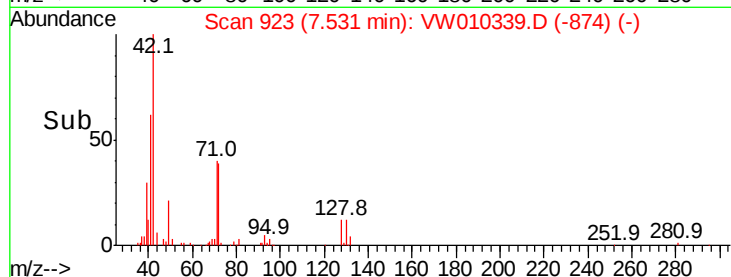
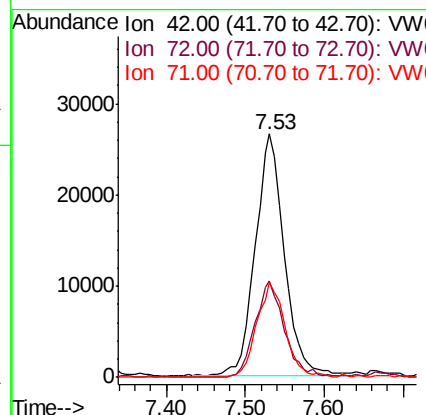
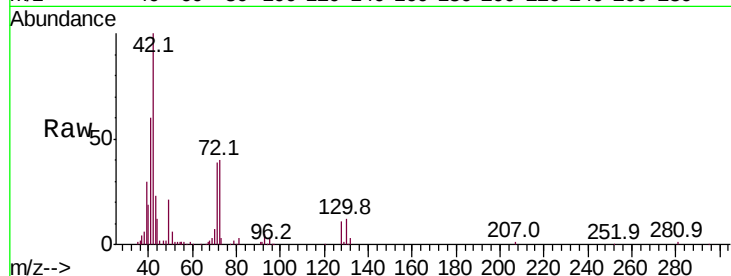
#29
Tetrahydrofuran
Concen: 19.722 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.00 min
Lab File: VW010339.D
Acq: 09 May 2019 16:24

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.0	31.0	46.6
71	38.0	29.7	44.5

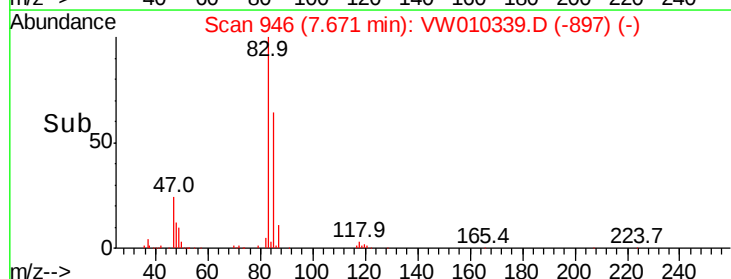
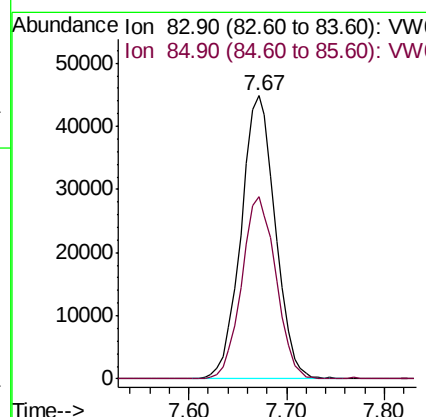
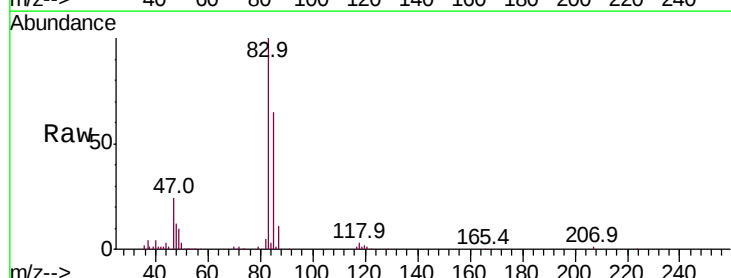
Manual Integrations
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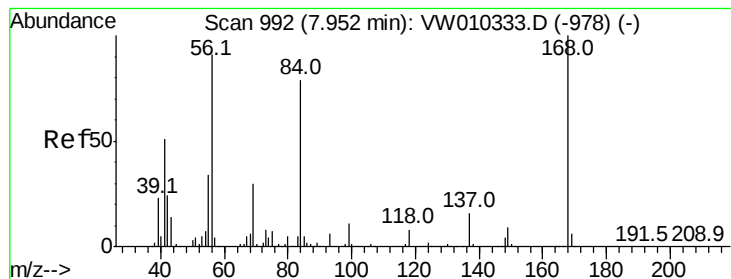
MMDadoda
5/10/2019 10:07:42 AM



#30
Chloroform
Concen: 4.321 ug/l
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW010339.D
Acq: 09 May 2019 16:24

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.4	50.7	76.1





#31

Cvclohexane

Concen: 4.803 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Instrument :

MSVOA_W

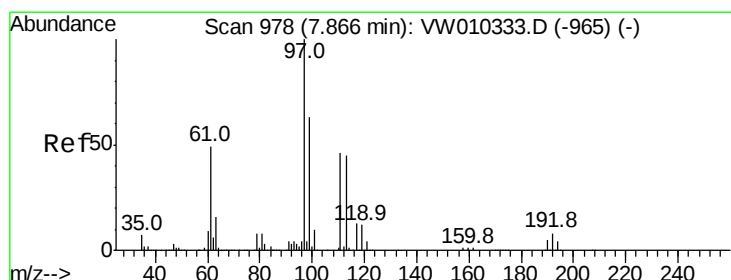
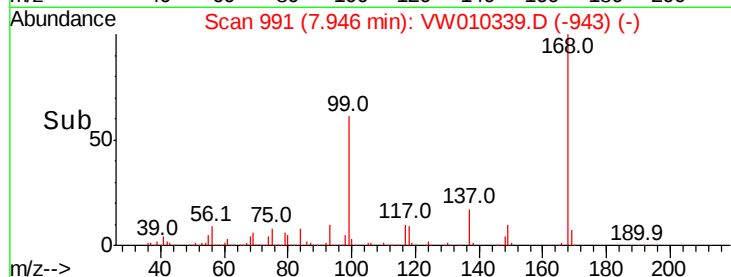
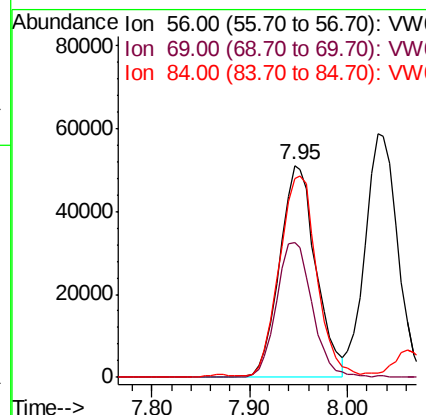
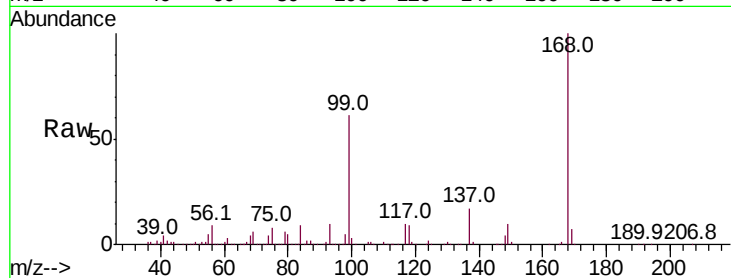
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion	56	Resp	132388
Ion	Ratio	Lower	Upper
56	100		
69	63.7	26.6	40.0#
84	93.9	66.2	99.2

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#32

1,1,1-Trichloroethane

Concen: 4.349 ug/l

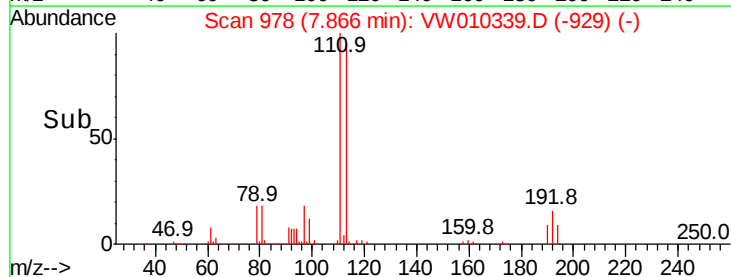
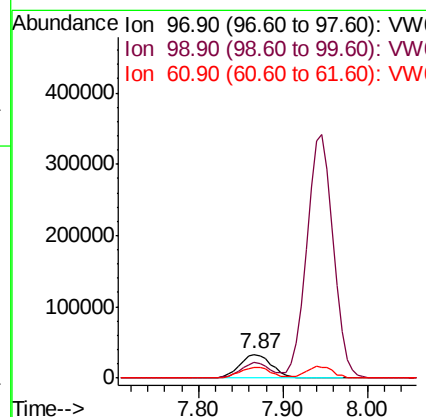
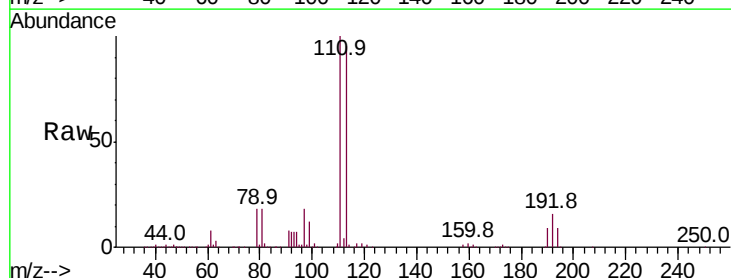
RT: 7.87 min Scan# 978

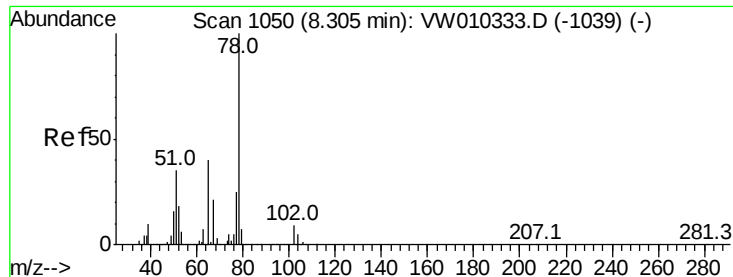
Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Tgt Ion	97	Resp	84866
Ion	Ratio	Lower	Upper
97	100		
99	61.8	50.2	75.2
61	46.8	38.2	57.2





#33

1,2-Dichloroethane-d4

Concen: 55.674 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 65 Resp: 749207

Ion Ratio Lower Upper

65 100

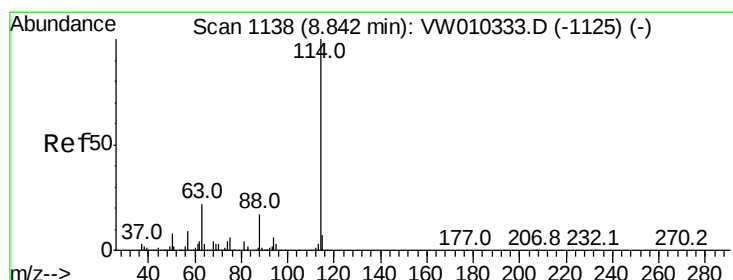
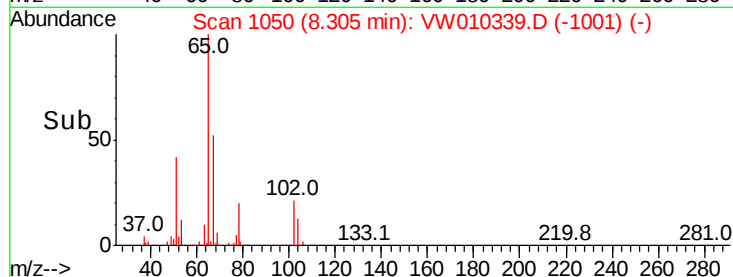
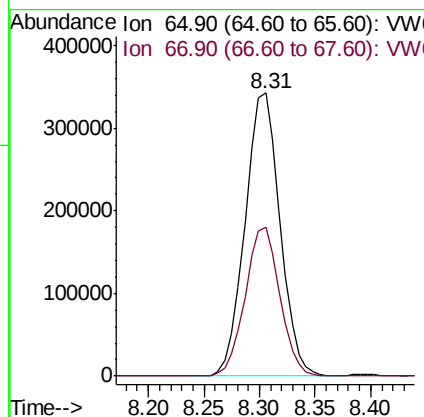
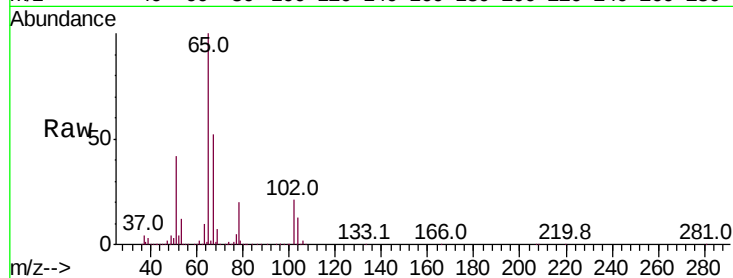
67 52.2 0.0 100.8

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

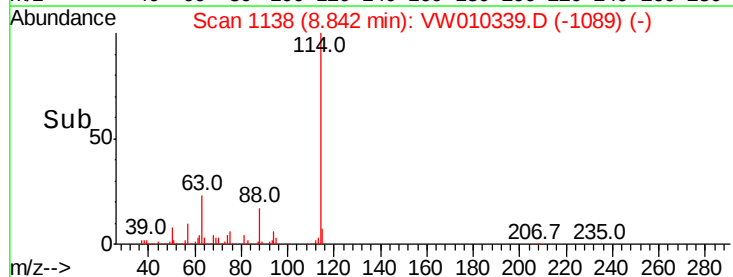
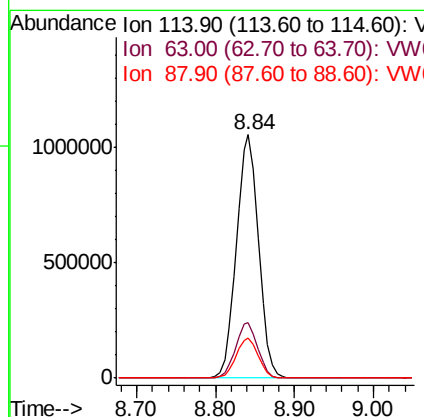
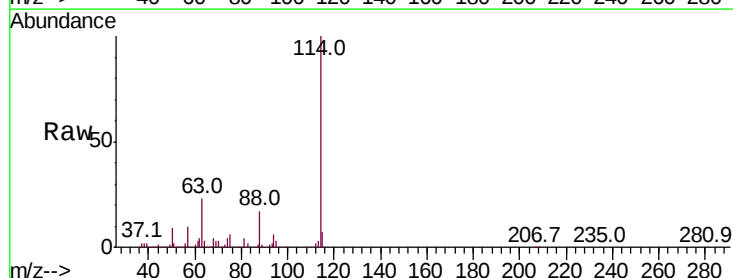
Tgt Ion: 114 Resp: 2058278

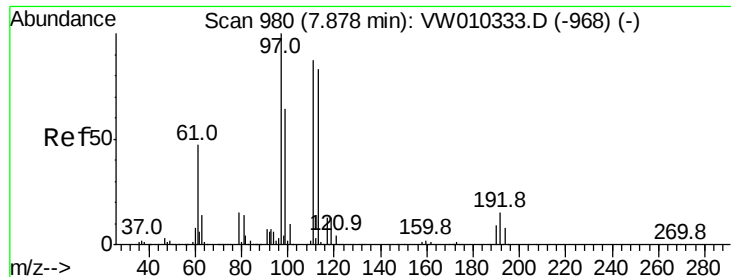
Ion Ratio Lower Upper

114 100

63 23.0 0.0 46.2

88 16.6 0.0 32.6





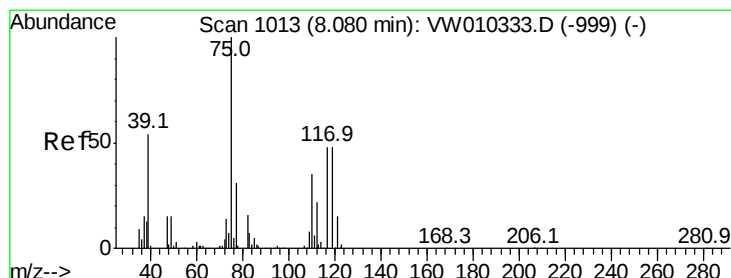
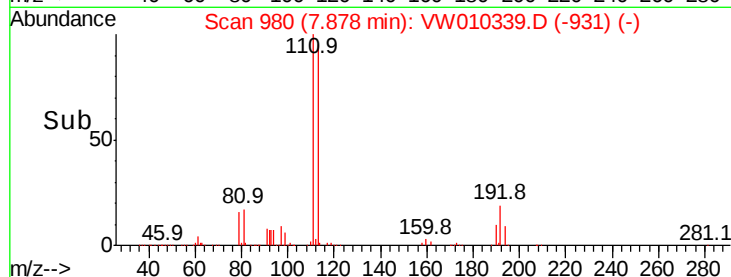
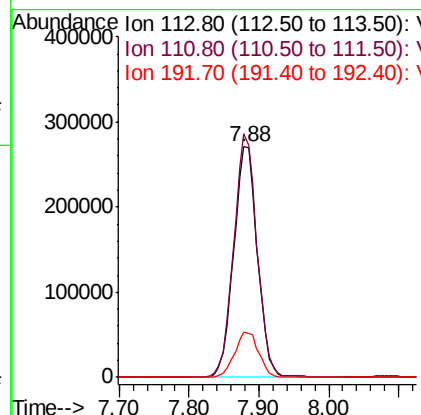
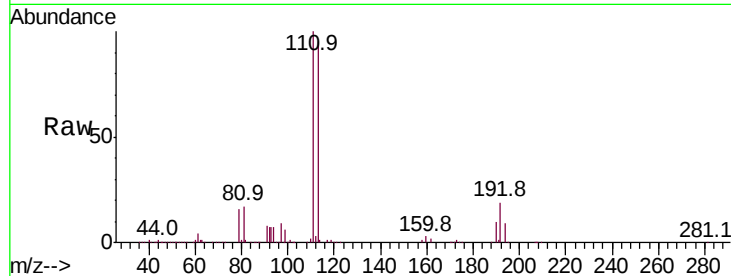
#35
 Dibromofluoromethane
 Concen: 52.929 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. 0.00 min
 Lab File: VW010339.D
 Acq: 09 May 2019 16:24

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
113	100	637516		
111	103.8	82.6	123.8	
192	19.9	15.4	23.2	

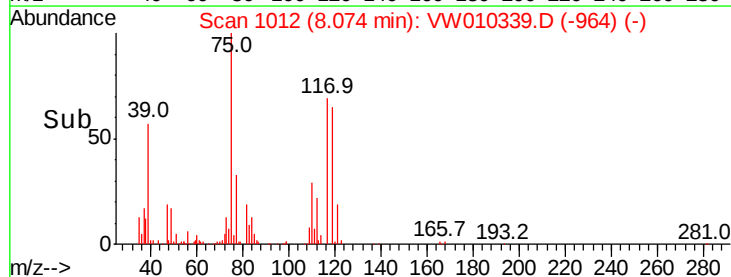
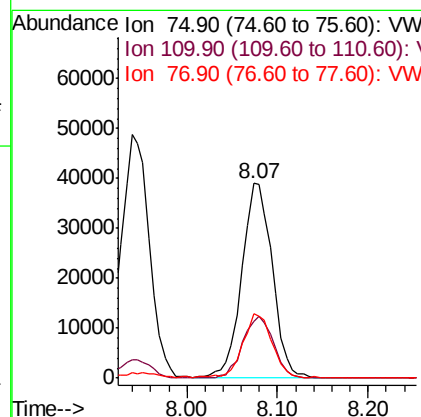
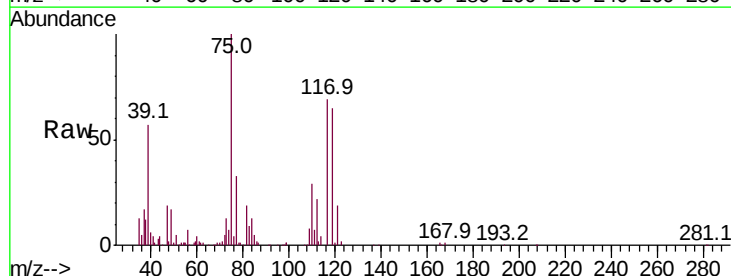
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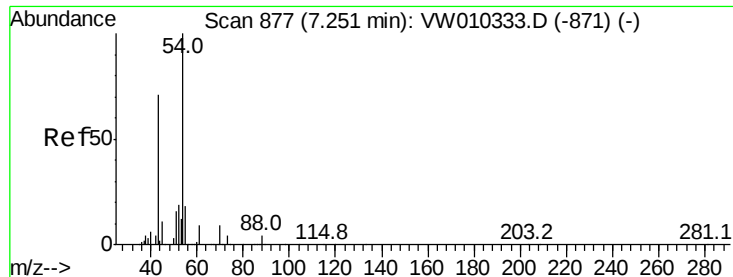
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#36
 1,1-Dichloropropene
 Concen: 4.086 ug/l
 RT: 8.07 min Scan# 1012
 Delta R.T. -0.01 min
 Lab File: VW010339.D
 Acq: 09 May 2019 16:24

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	91194		
110	31.8	16.6	49.8	
77	32.2	24.8	37.2	





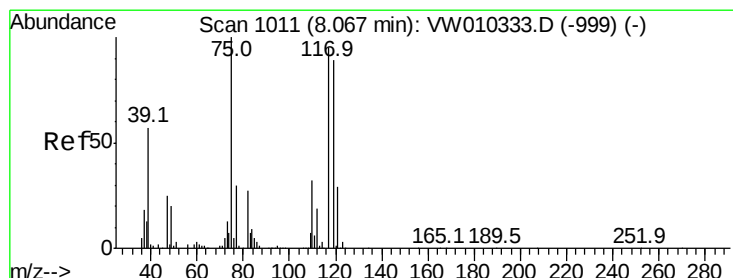
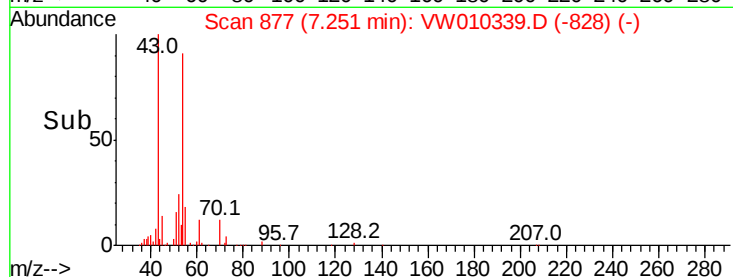
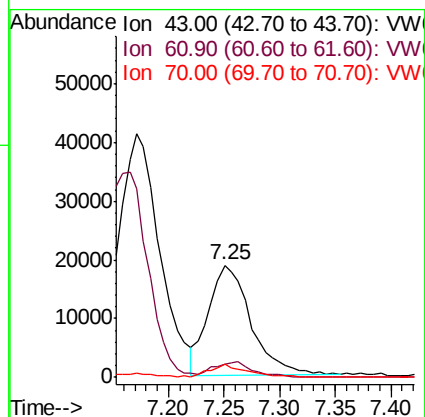
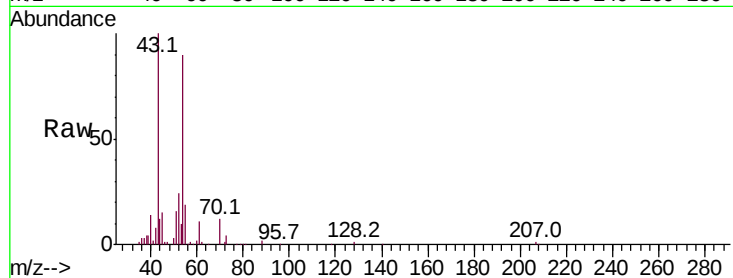
#37
Ethyl Acetate
Concen: 4.247 ug/l
RT: 7.25 min Scan# 877
Delta R.T. 0.00 min
Lab File: VW010339.D
Acq: 09 May 2019 16:24

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.3	9.8	14.8
70	10.6	7.4	11.0

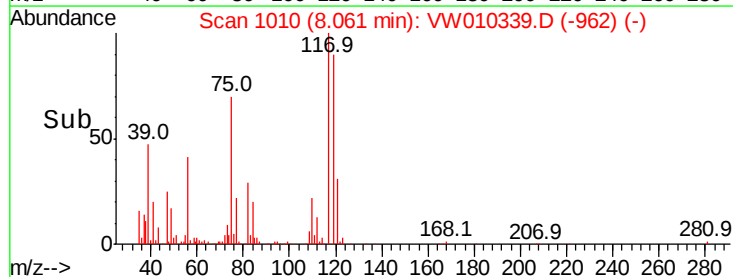
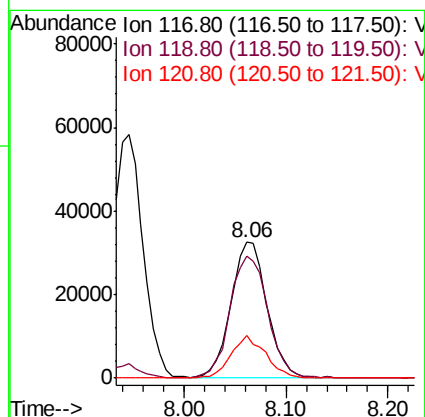
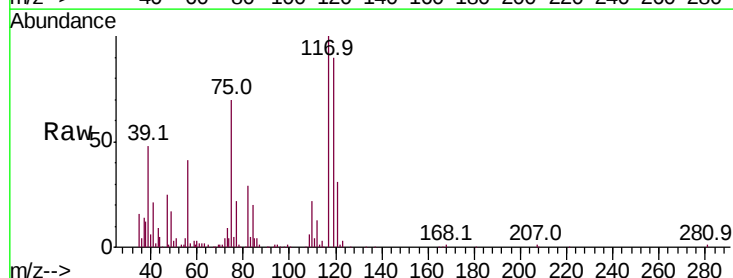
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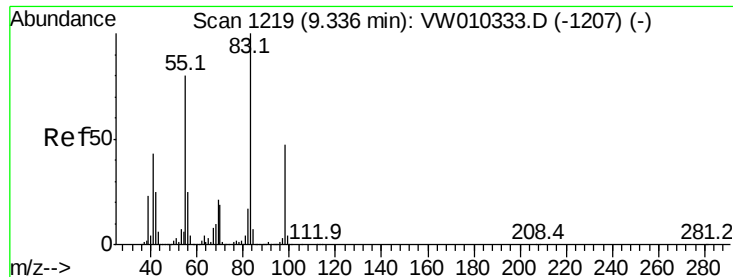
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#38
Carbon Tetrachloride
Concen: 4.181 ug/l
RT: 8.06 min Scan# 1010
Delta R.T. -0.01 min
Lab File: VW010339.D
Acq: 09 May 2019 16:24

Tgt Ion	Ratio	Lower	Upper
117	100		
119	90.2	75.3	112.9
121	31.2	24.4	36.6





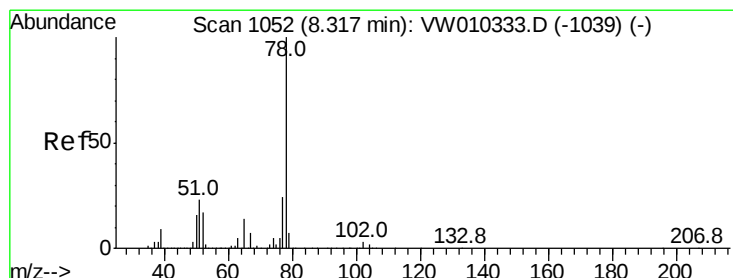
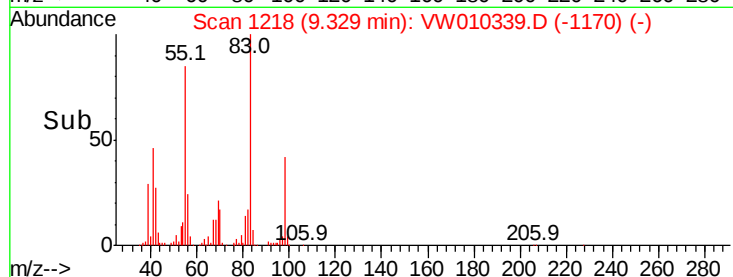
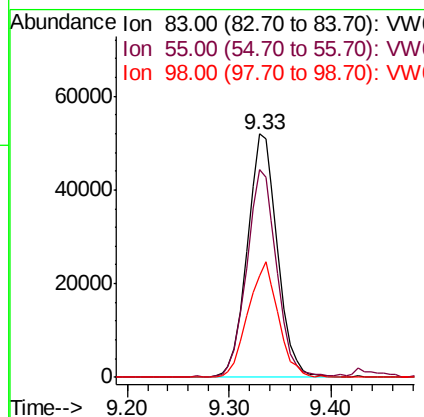
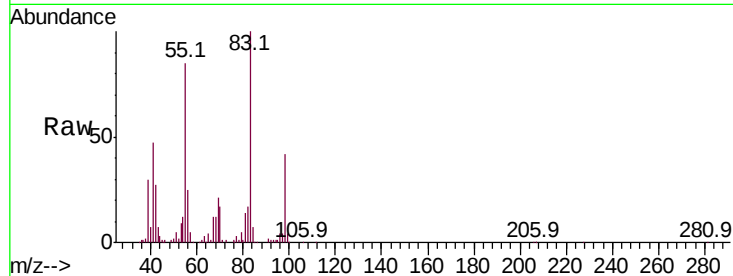
#39
Methvlcvclohexane
Concen: 3.912 ug/l
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW010339.D
Acq: 09 May 2019 16:24

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
83	100		
55	85.3	67.1	100.7
98	41.7	39.2	58.8

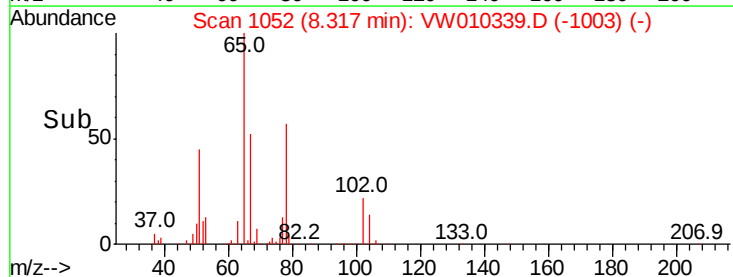
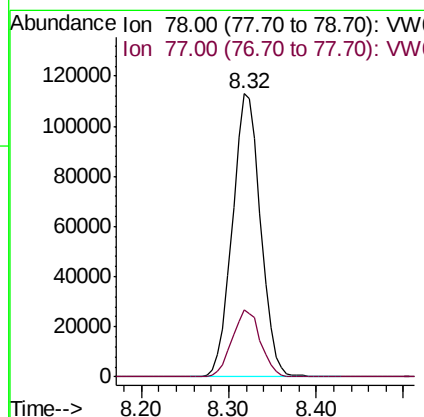
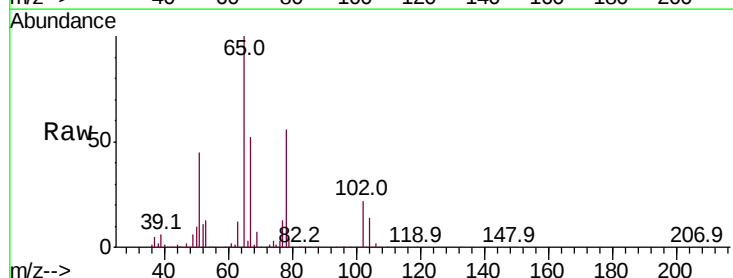
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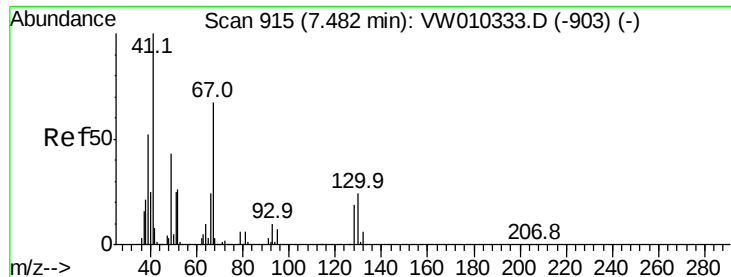
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#40
Benzene
Concen: 4.152 ug/l
RT: 8.32 min Scan# 1052
Delta R.T. 0.00 min
Lab File: VW010339.D
Acq: 09 May 2019 16:24

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.1	28.7





#41

Methacrylonitrile

Concen: 3.733 ug/l

RT: 7.48 min Scan# 914

Delta R.T. -0.01 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Instrument :

MSVOA_W

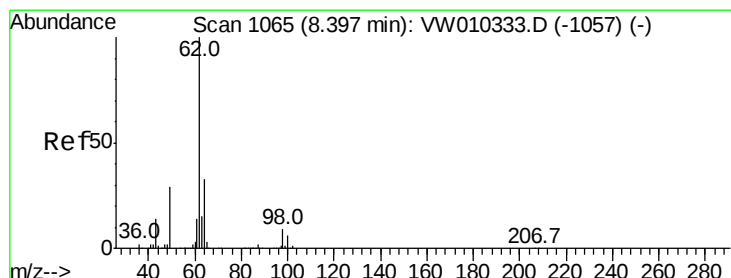
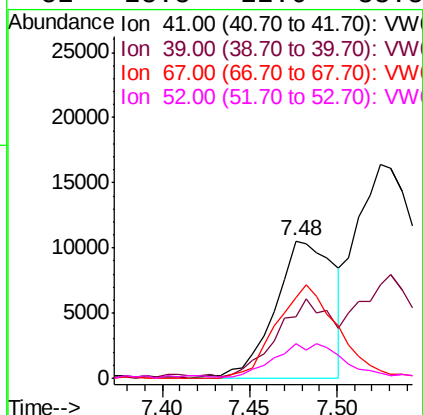
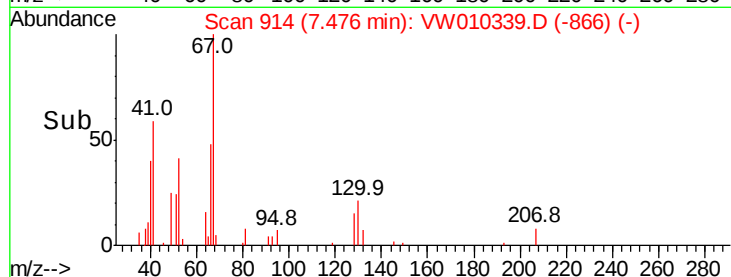
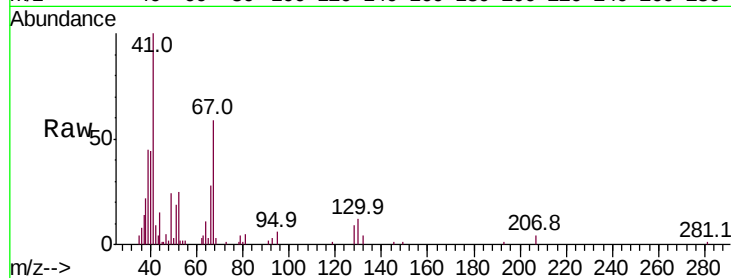
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
41	100		
39	52.4	45.0	67.4
67	72.1	50.7	76.1
52	28.8	22.6	33.8

Manual Integrations
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5/10/2019 10:07:42 AM



#42

1,2-Dichloroethane

Concen: 4.291 ug/l

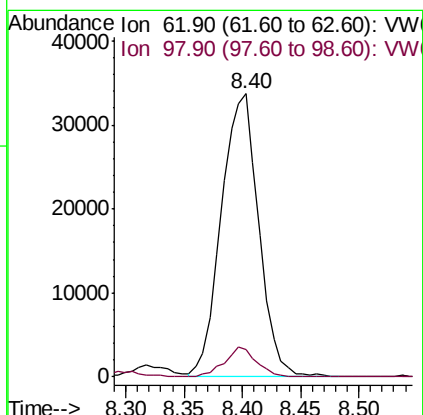
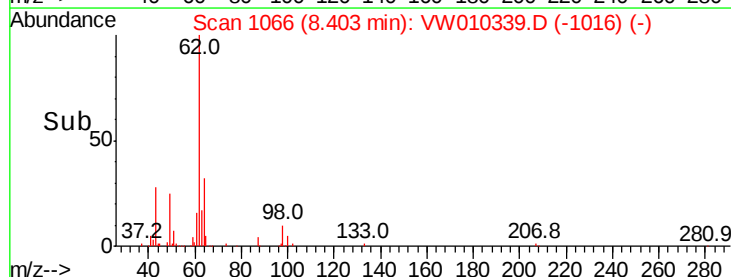
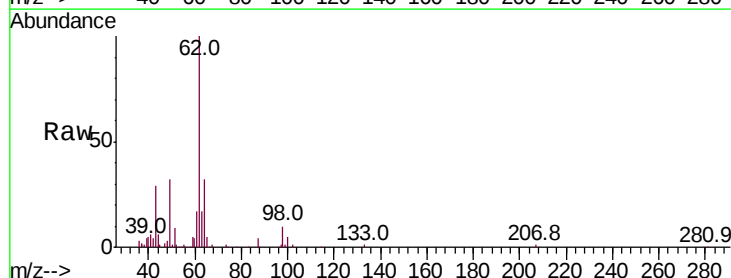
RT: 8.40 min Scan# 1066

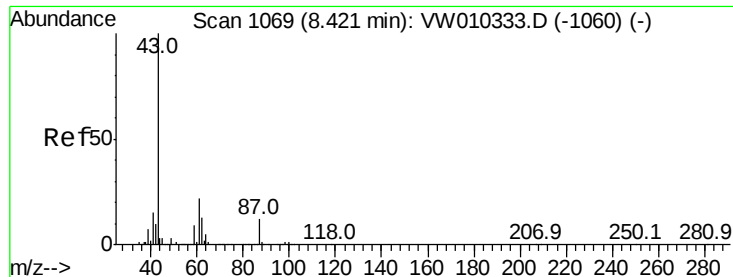
Delta R.T. 0.01 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	16.6





#43

Isopropyl Acetate

Concen: 3.961 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Instrument :

MSVOA_W

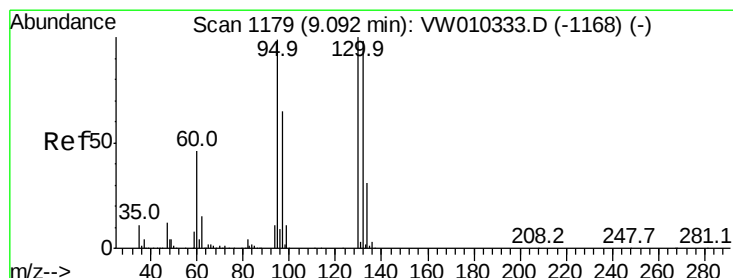
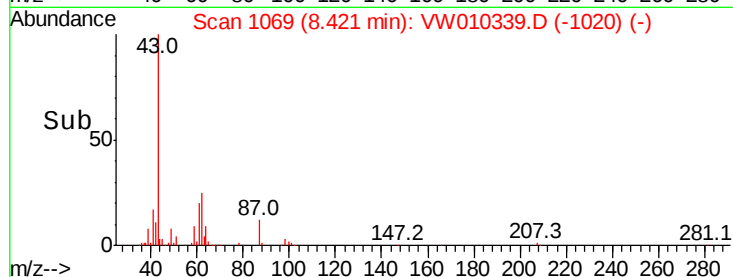
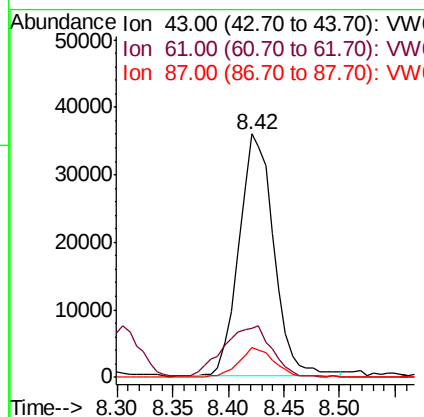
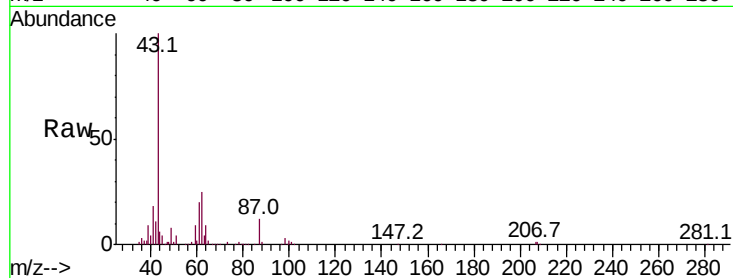
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	43	Resp:	78060
Ion	Ratio	Lower	Upper
43	100		
61	29.1	23.0	34.6
87	12.9	9.3	13.9

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#44

Trichloroethene

Concen: 4.177 ug/l

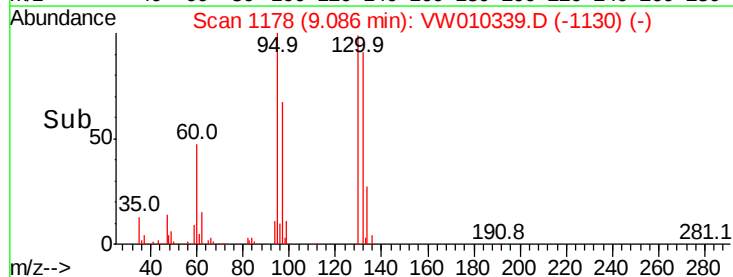
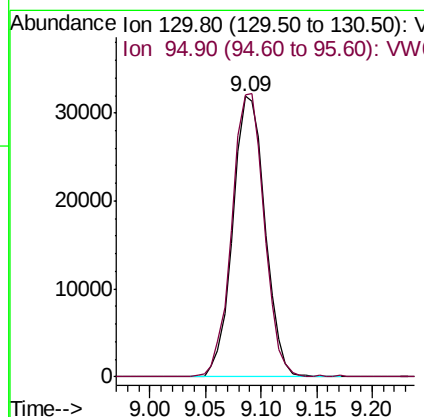
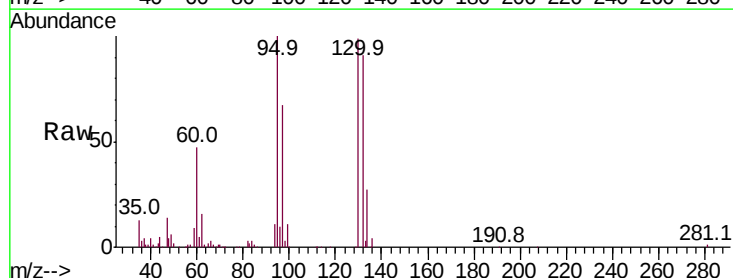
RT: 9.09 min Scan# 1178

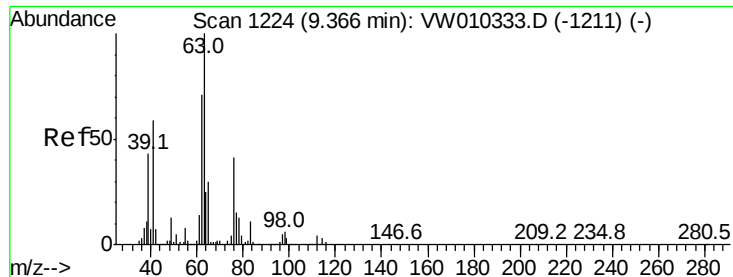
Delta R.T. -0.01 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Tgt Ion:	130	Resp:	63918
Ion	Ratio	Lower	Upper
130	100		
95	100.5	0.0	205.4





#45

1,2-Dichloropropane

Concen: 4.186 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 63 Resp: 63597

Ion Ratio Lower Upper

63 100

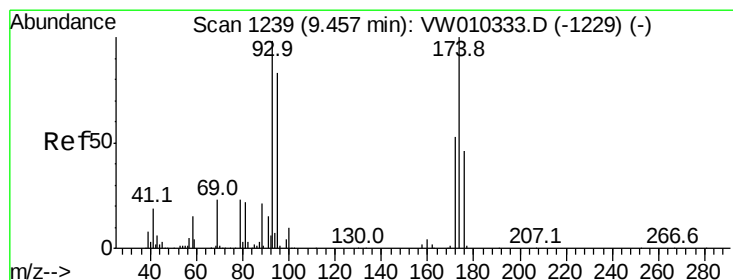
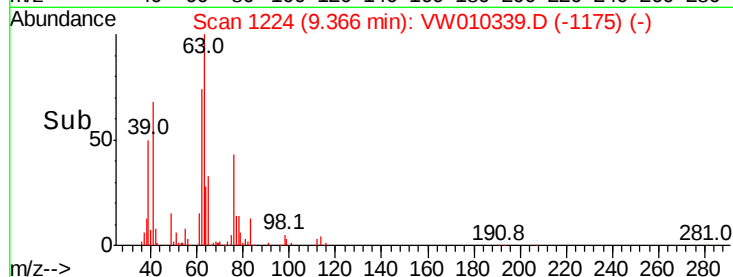
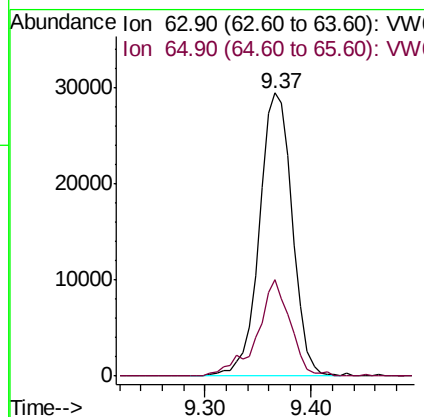
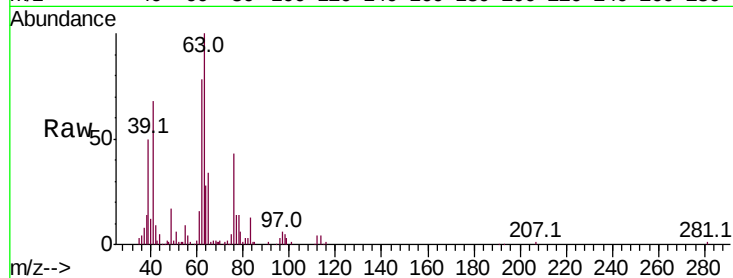
65 34.0 23.8 35.6

Manual Integrations

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MMDadoda

5/10/2019 10:07:42 AM



#46

Dibromomethane

Concen: 4.266 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

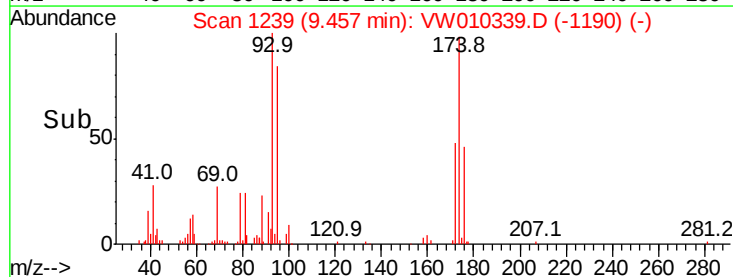
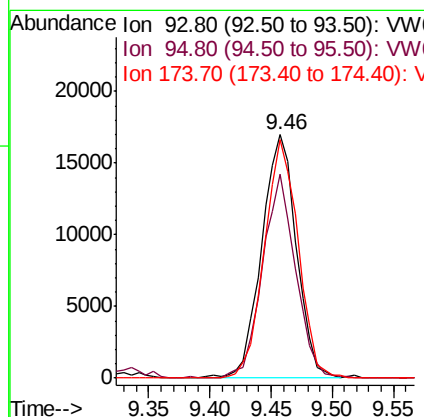
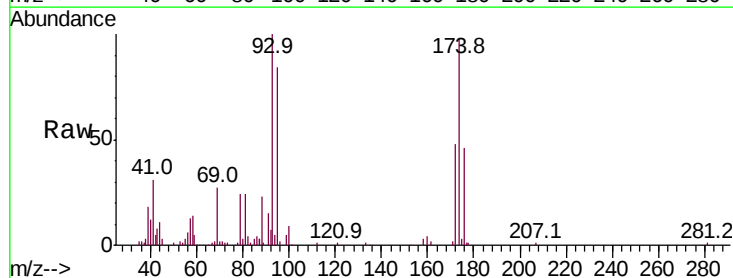
Tgt Ion: 93 Resp: 33485

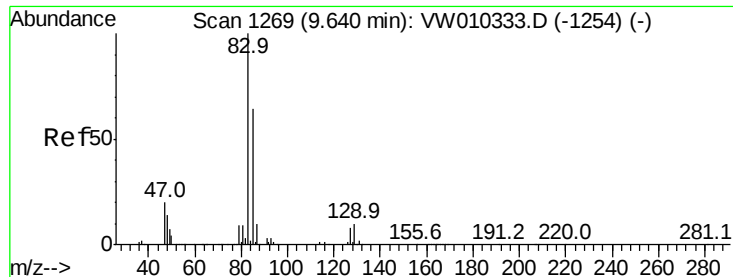
Ion Ratio Lower Upper

93 100

95 79.7 65.8 98.8

174 95.7 75.5 113.3





#47

Bromodichloromethane

Concen: 4.099 ug/l

RT: 9.64 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Instrument :

MSVOA_W

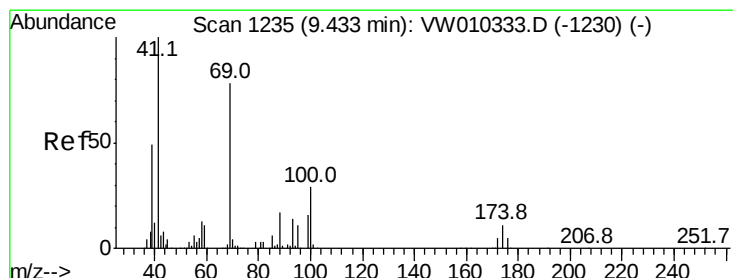
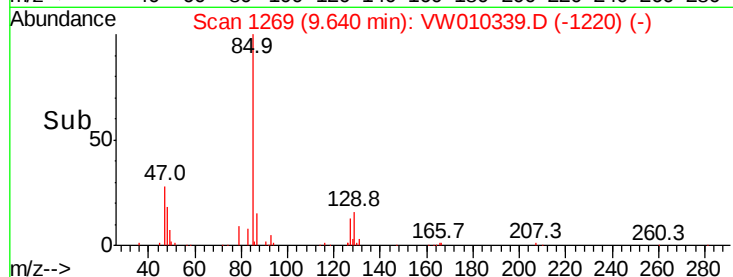
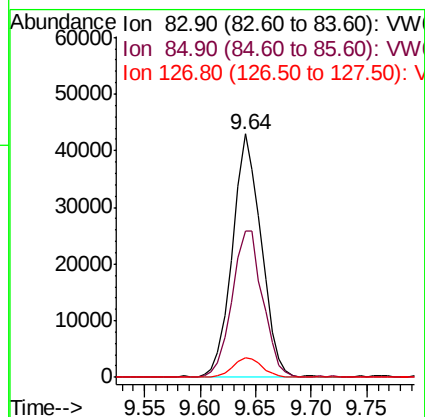
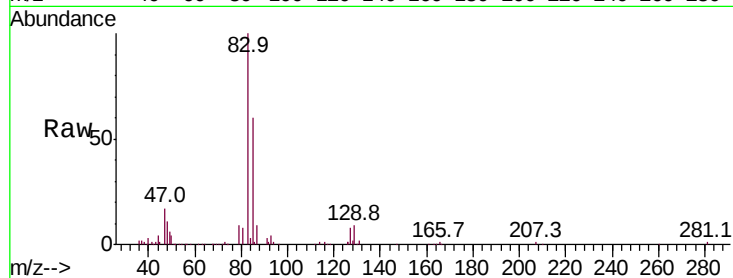
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	83	Resp:	77177
Ion Ratio	Lower	Upper	
83	100		
85	59.9	50.6	75.8
127	8.1	6.6	10.0

Manual Integrations
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#48

Methyl methacrylate

Concen: 3.613 ug/l

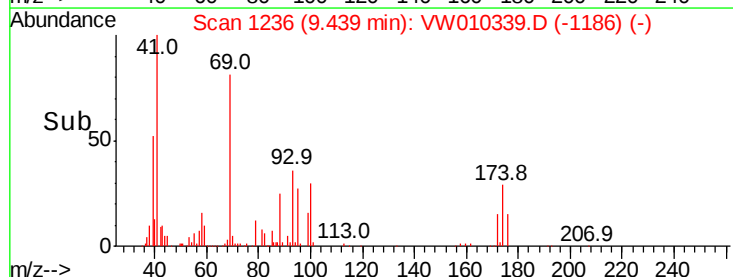
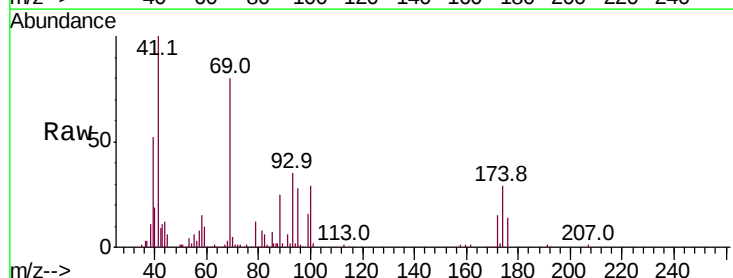
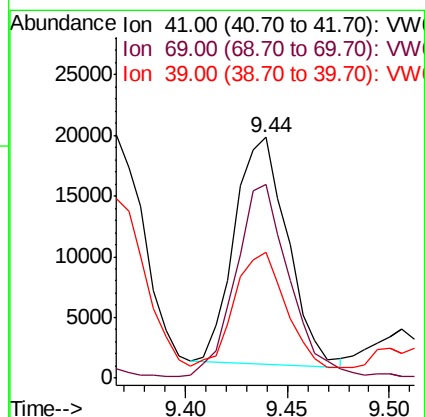
RT: 9.44 min Scan# 1236

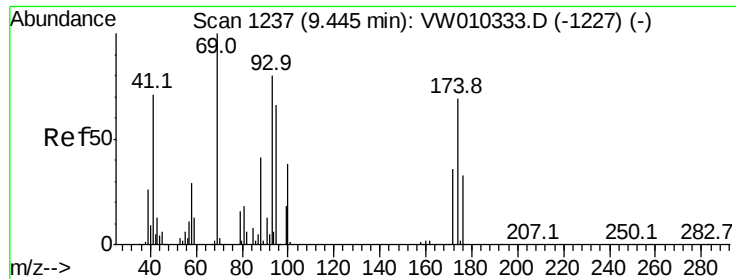
Delta R.T. 0.01 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Tgt Ion:	41	Resp:	33667
Ion Ratio	Lower	Upper	
41	100		
69	87.5	60.1	90.1
39	58.1	51.0	76.6





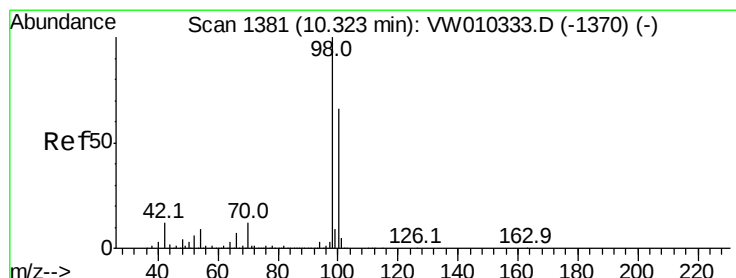
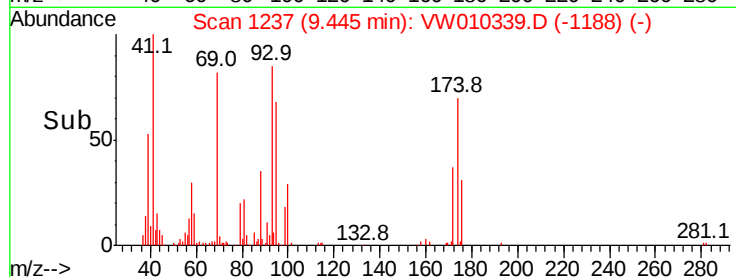
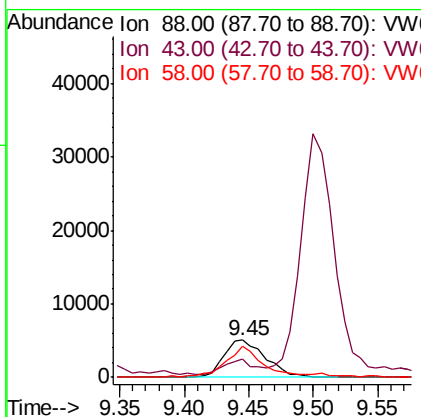
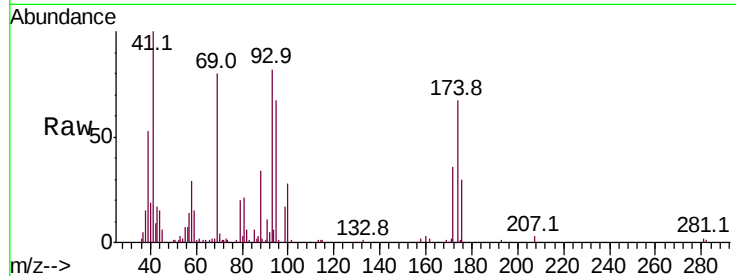
#49
1,4-Dioxane
Concen: 82.873 ug/l
RT: 9.45 min Scan# 1237
Delta R.T. 0.00 min
Lab File: VW010339.D
Acq: 09 May 2019 16:24

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
88	100		
43	30.5	31.9	47.9#
58	75.0	61.8	92.6

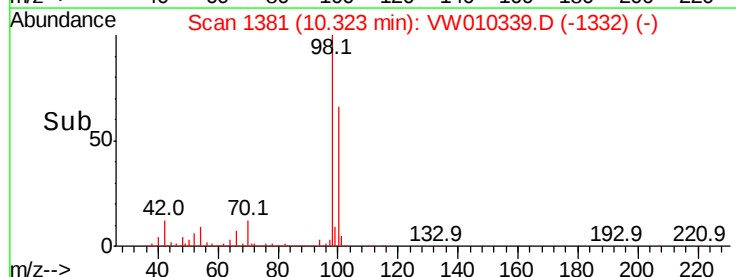
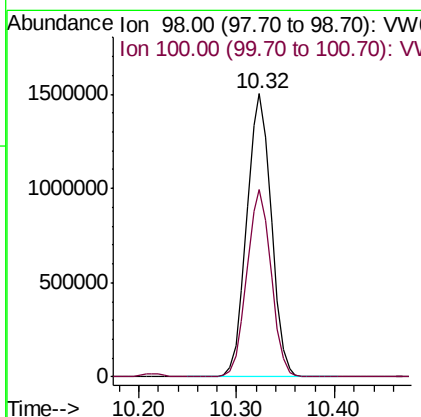
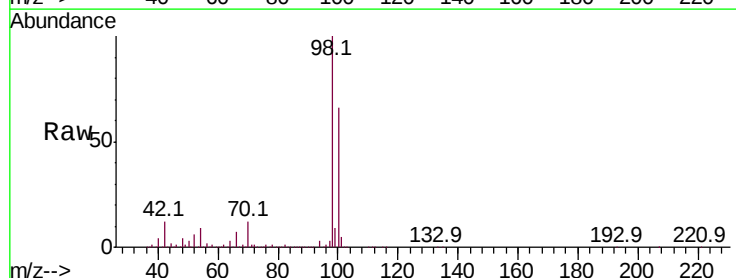
Manual Integrations
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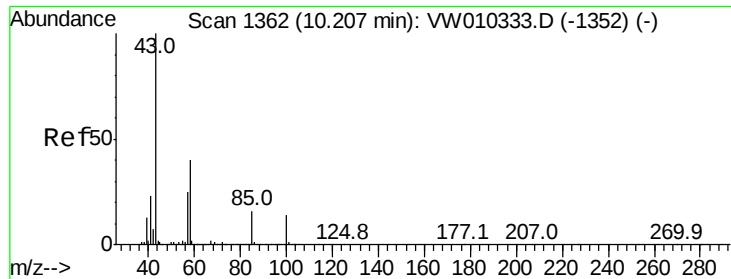
MMDadoda
5/10/2019 10:07:42 AM



#50
Toluene-d8
Concen: 53.252 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW010339.D
Acq: 09 May 2019 16:24

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.3	52.3	78.5





#51

4-Methyl-2-Pentanone

Concen: 19.461 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Instrument :

MSVOA_W

ClientSampled :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 43 Resp: 219915

Ion Ratio Lower Upper

43 100

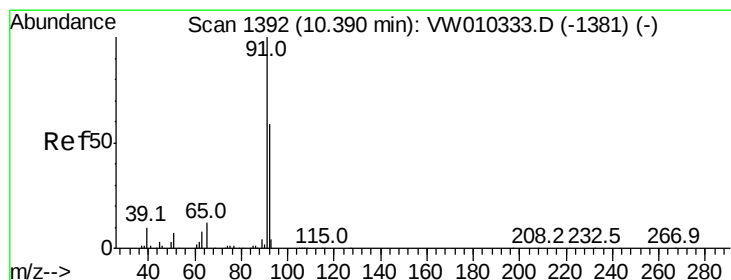
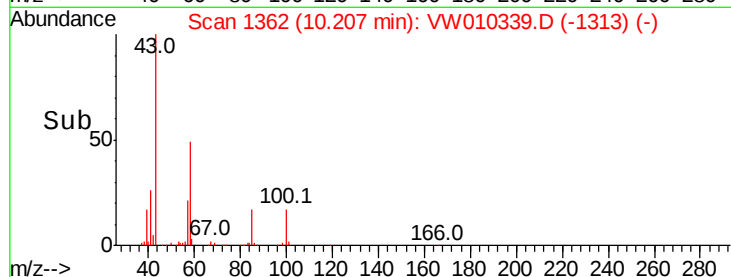
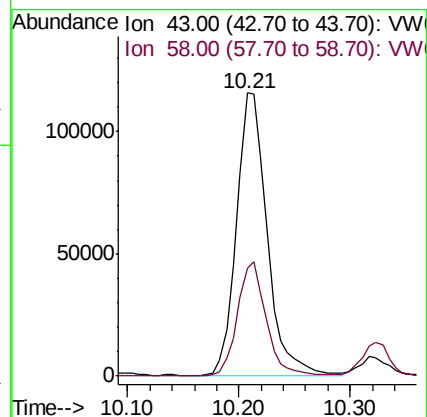
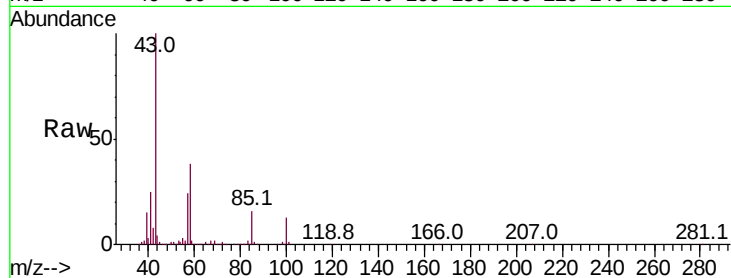
58 37.9 28.9 43.3

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#52

Toluene

Concen: 4.259 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW010339.D

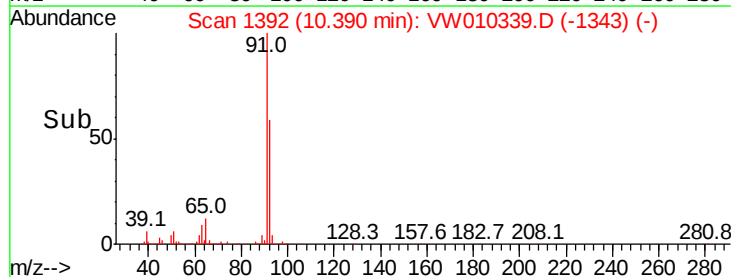
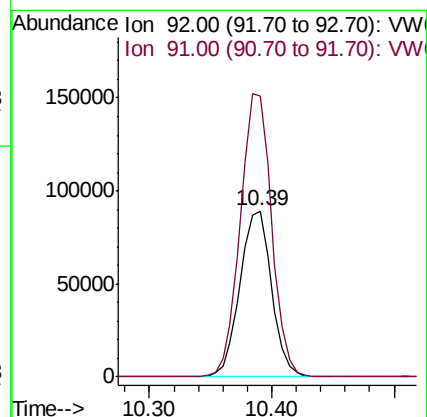
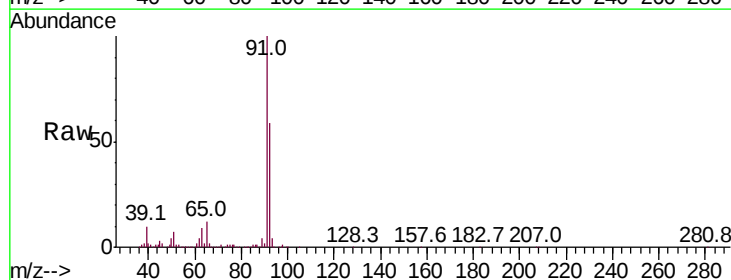
Acq: 09 May 2019 16:24

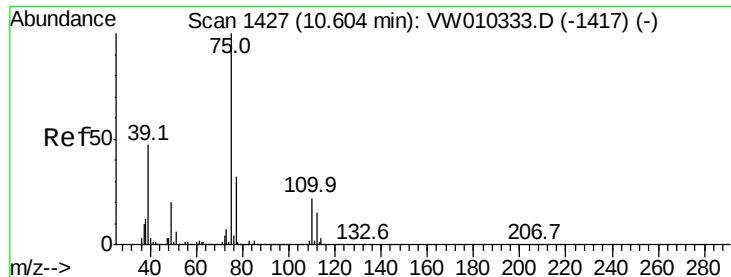
Tgt Ion: 92 Resp: 159118

Ion Ratio Lower Upper

92 100

91 170.5 138.5 207.7





#53

t-1,3-Dichloropropene

Concen: 3.794 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

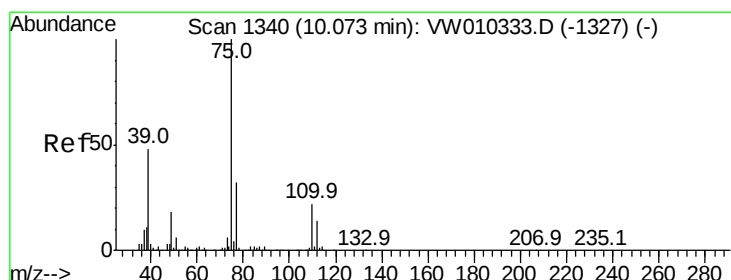
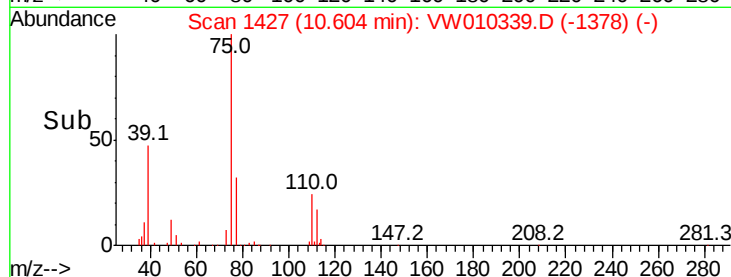
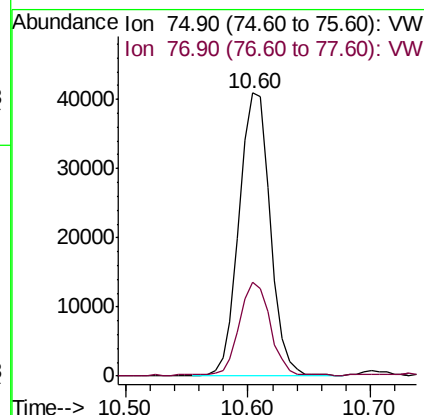
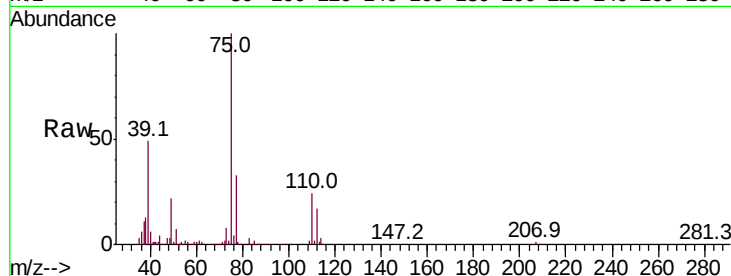
Instrument :
MSVOA_W

ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.6	26.9	40.3

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#54

cis-1,3-Dichloropropene

Concen: 3.837 ug/l

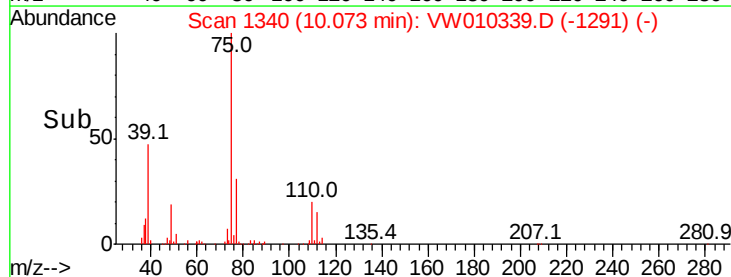
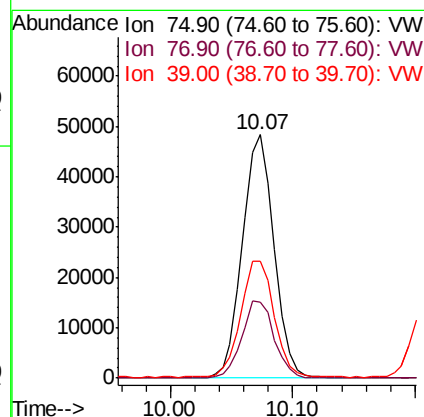
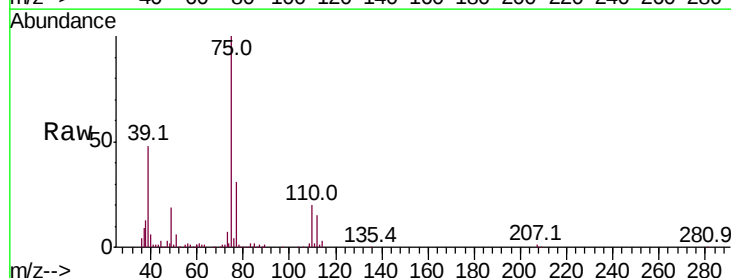
RT: 10.07 min Scan# 1340

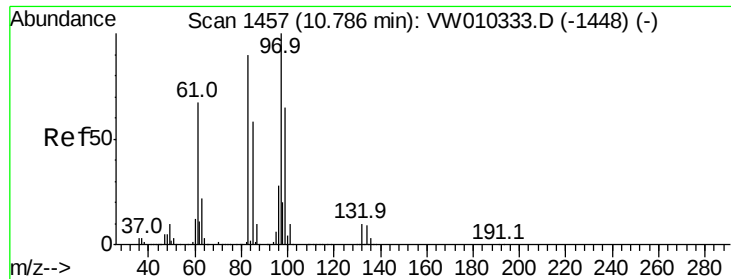
Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.6	38.4
39	47.4	47.8	71.6#





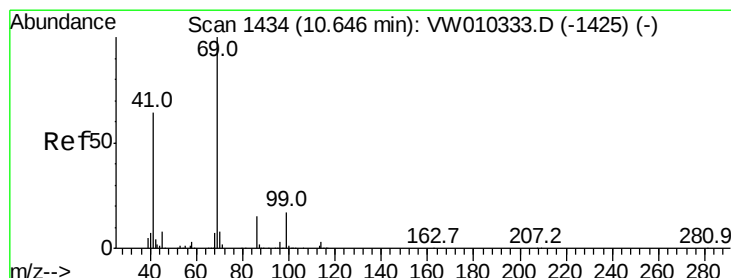
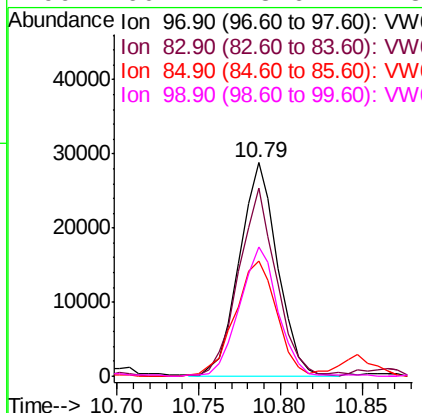
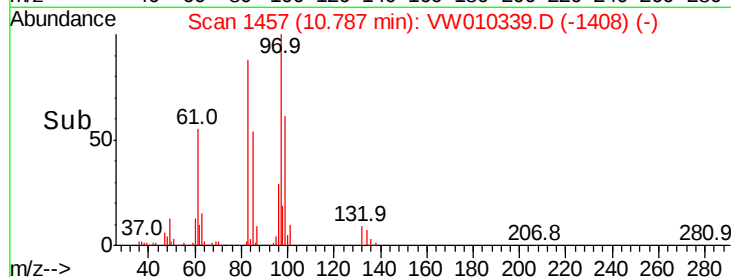
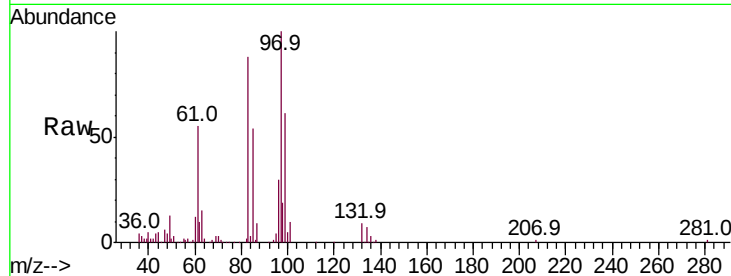
#55
 1,1,2-Trichloroethane
 Concen: 4.212 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. 0.00 min
 Lab File: VW010339.D
 Acq: 09 May 2019 16:24

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

Tot Ion	97	Resp	46952
Ion	Ratio	Lower	Upper
97	100		
83	87.5	68.9	103.3
85	53.3	42.9	64.3
99	60.1	48.6	72.8

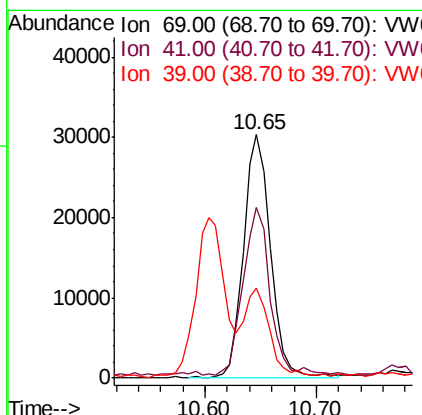
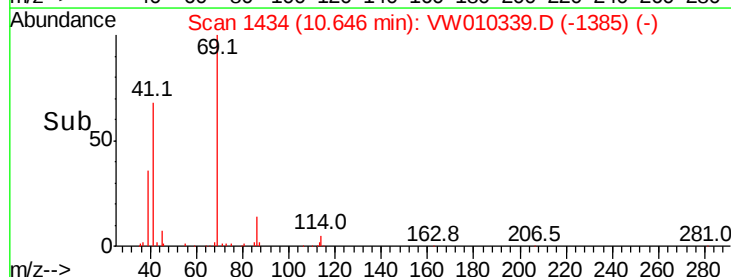
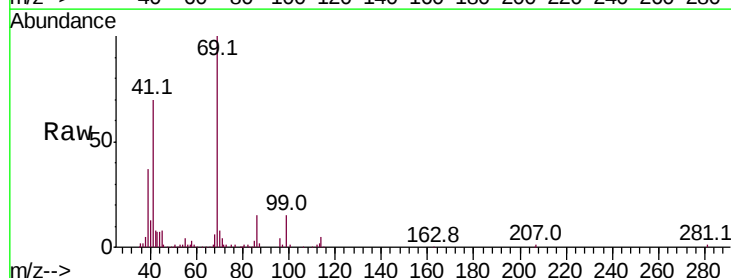
Manual Integrations
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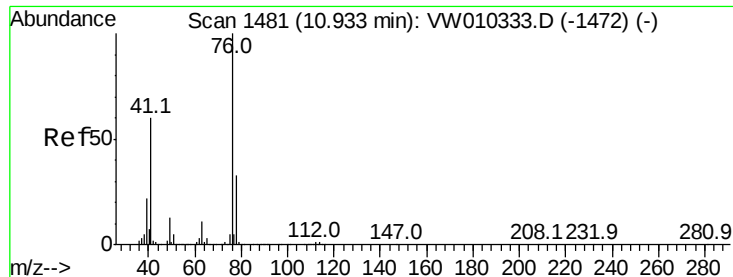
MMDadoda
 5/10/2019 10:07:42 AM



#56
 Ethyl methacrylate
 Concen: 3.453 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. 0.00 min
 Lab File: VW010339.D
 Acq: 09 May 2019 16:24

Tgt Ion	69	Resp	50825
Ion	Ratio	Lower	Upper
69	100		
41	66.8	61.0	91.6
39	32.8	33.8	50.6#





#57

1,3-Dichloropropane

Concen: 4.101 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 76 Resp: 81723

Ion Ratio Lower Upper

76 100

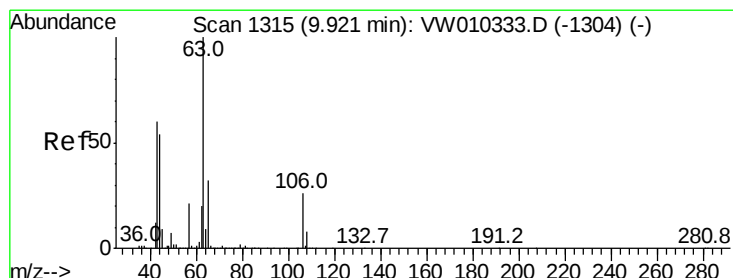
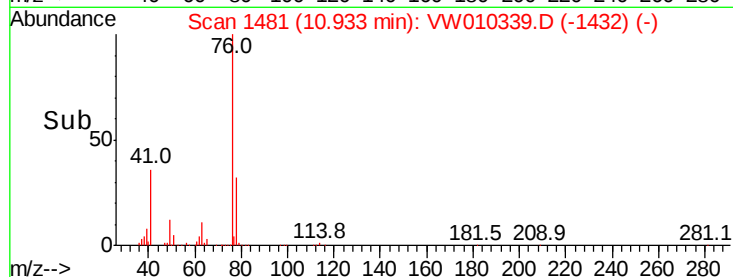
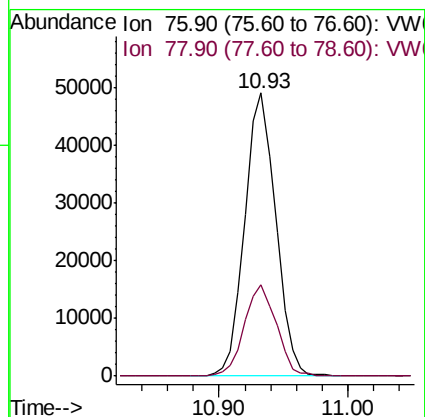
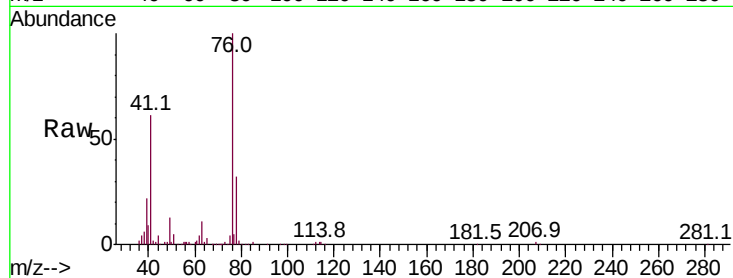
78 33.4 25.8 38.8

Manual Integrations

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MMDadoda

5/10/2019 10:07:42 AM



#58

2-Chloroethyl Vinyl ether

Concen: 16.708 ug/l

RT: 9.93 min Scan# 1316

Delta R.T. 0.01 min

Lab File: VW010339.D

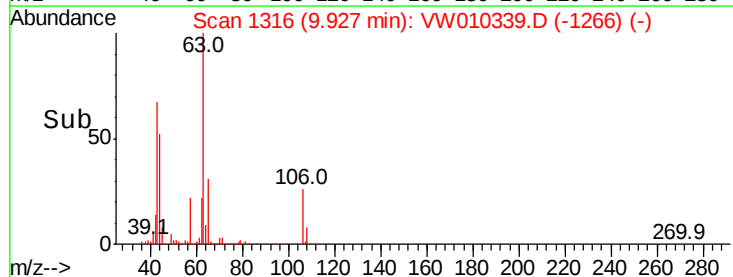
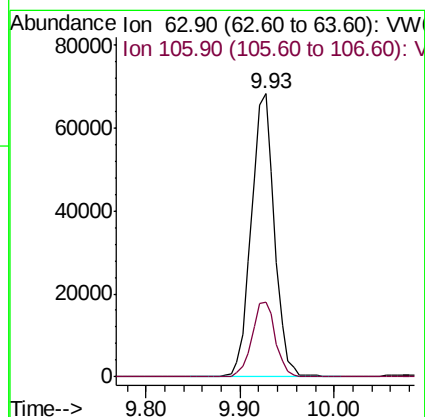
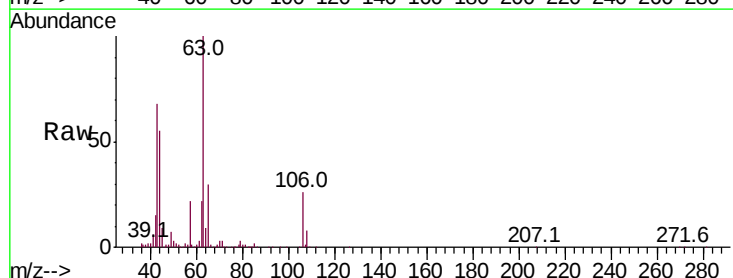
Acq: 09 May 2019 16:24

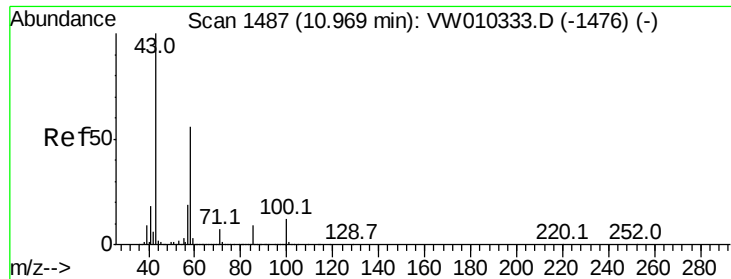
Tgt Ion: 63 Resp: 117762

Ion Ratio Lower Upper

63 100

106 26.8 21.4 32.0





#59

2-Hexanone

Concen: 18.494 ug/l

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 43 Resp: 147756

Ion Ratio Lower Upper

43 100

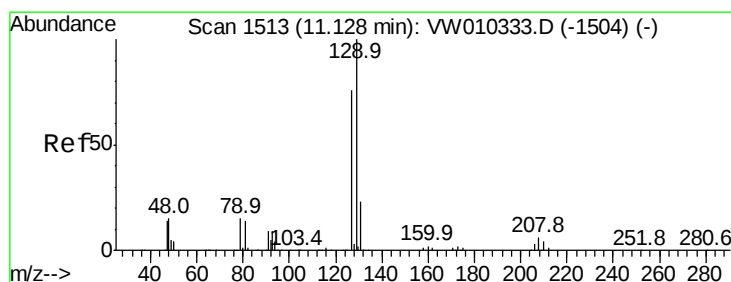
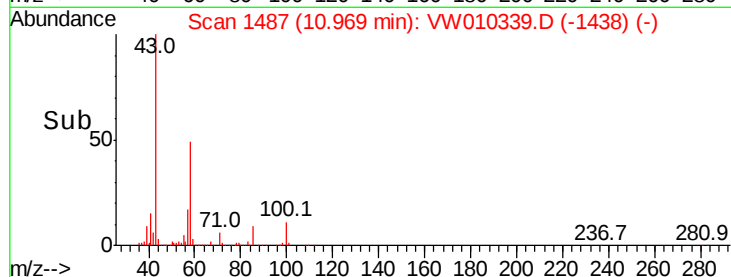
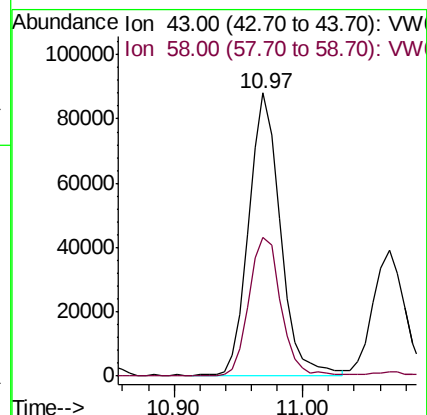
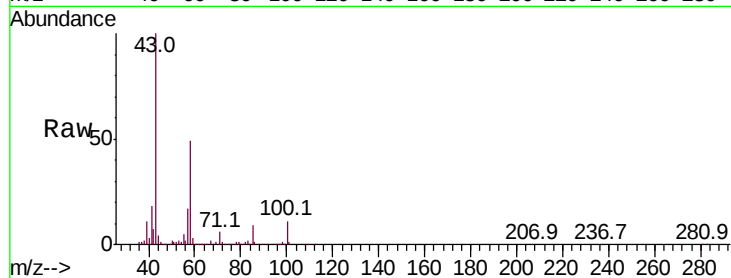
58 50.4 24.9 74.7

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#60

Dibromochloromethane

Concen: 3.969 ug/l

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW010339.D

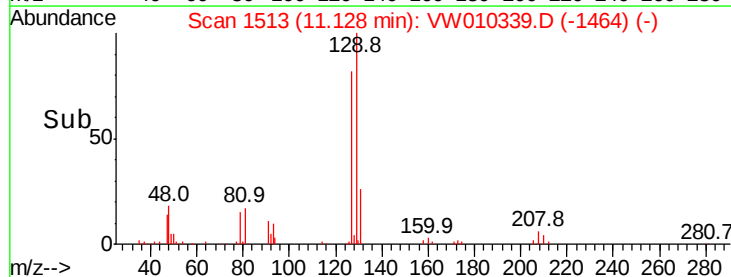
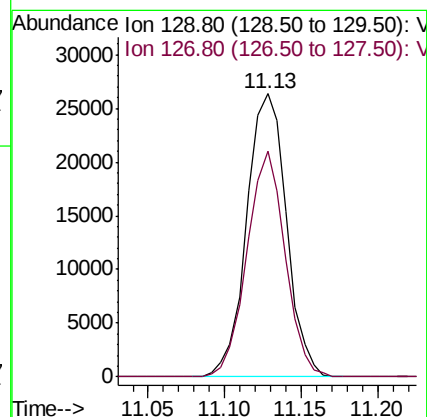
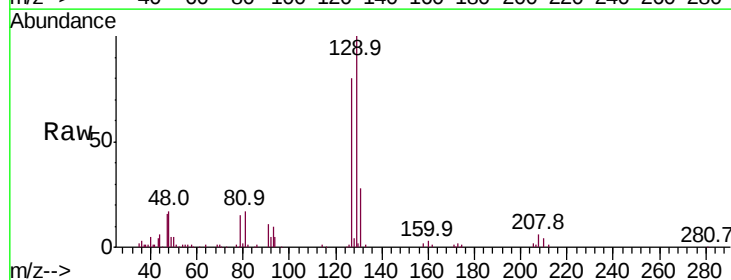
Acq: 09 May 2019 16:24

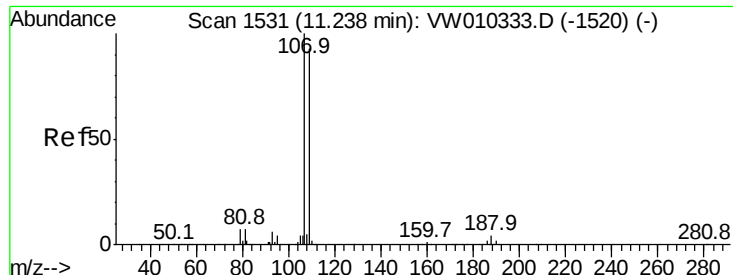
Tgt Ion: 129 Resp: 47612

Ion Ratio Lower Upper

129 100

127 76.7 38.6 116.0





#61

1,2-Dibromoethane

Concen: 4.087 ug/l

RT: 11.24 min Scan# 1531

Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:107 Resp: 43739

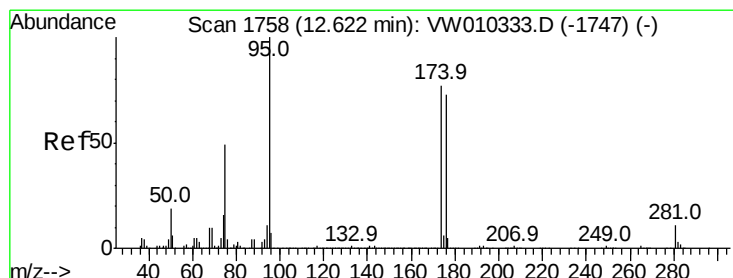
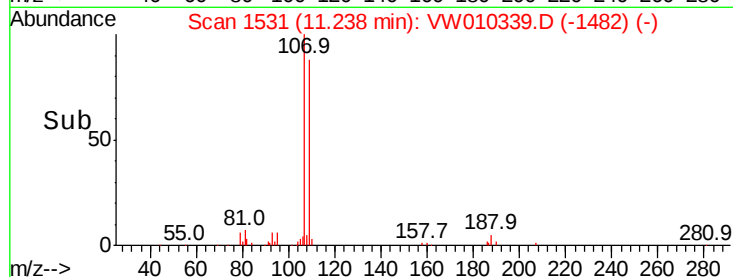
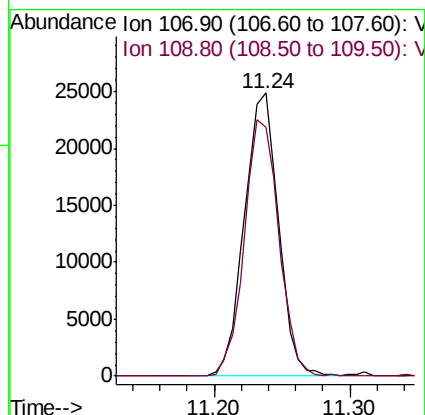
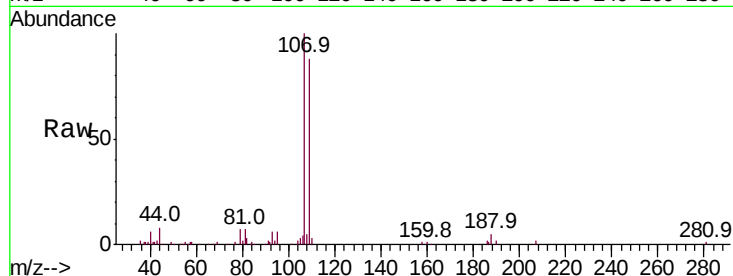
Ion Ratio Lower Upper

107 100

109 92.2 73.6 110.4

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#62

4-Bromofluorobenzene

Concen: 52.083 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

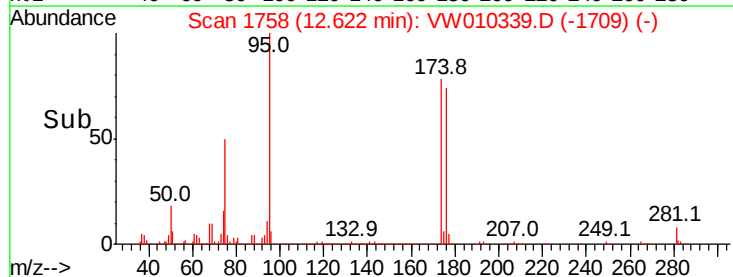
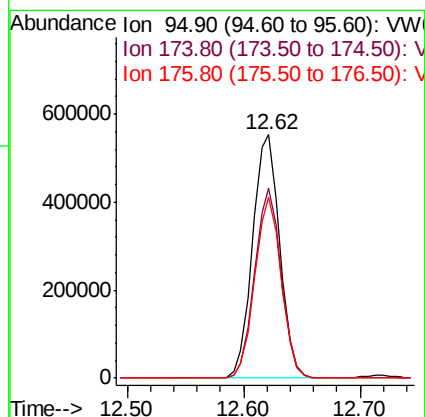
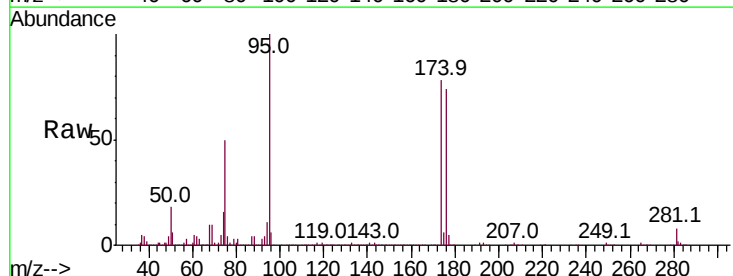
Tgt Ion: 95 Resp: 899204

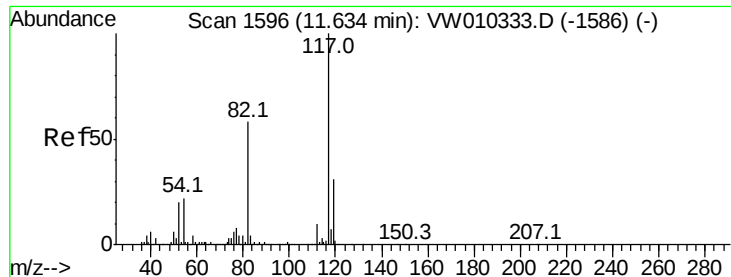
Ion Ratio Lower Upper

95 100

174 76.1 0.0 151.4

176 72.8 0.0 146.2





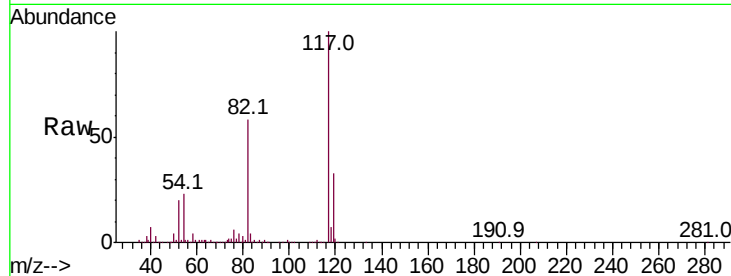
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW010339.D
Acq: 09 May 2019 16:24

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.1	45.2	67.8
119	32.7	25.4	38.2

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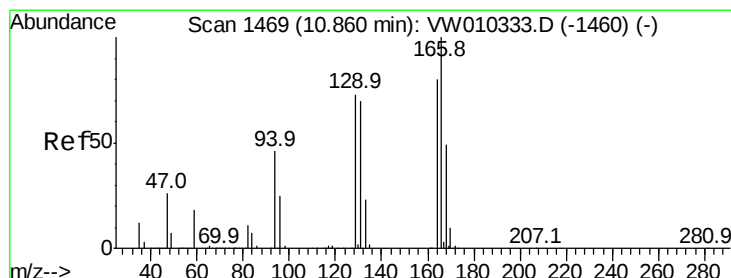
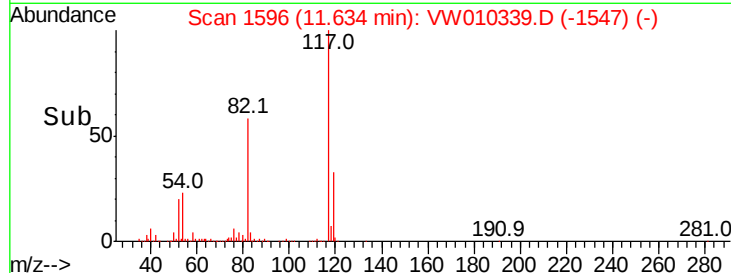
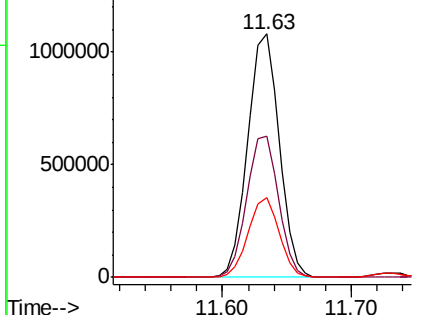


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 4.157 ug/l
RT: 10.87 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VW010339.D
Acq: 09 May 2019 16:24

Tgt Ion	Ratio	Lower	Upper
164	100		
166	131.3	101.2	151.8
129	95.8	77.8	116.6
131	88.8	73.1	109.7

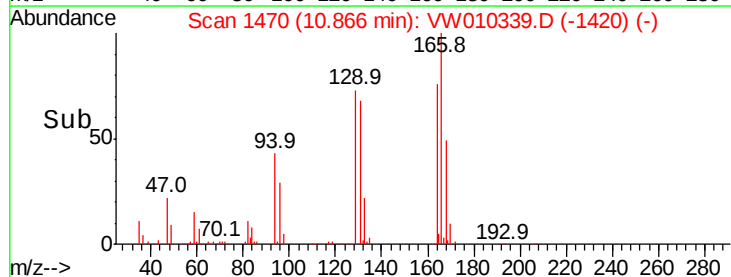
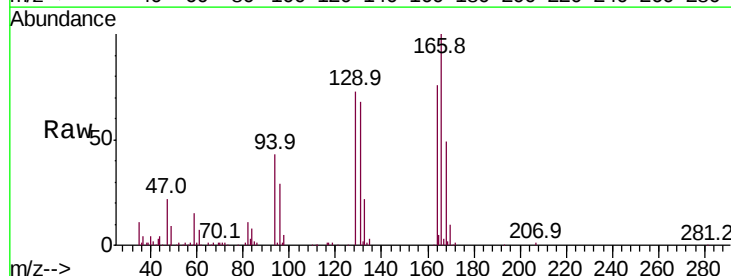
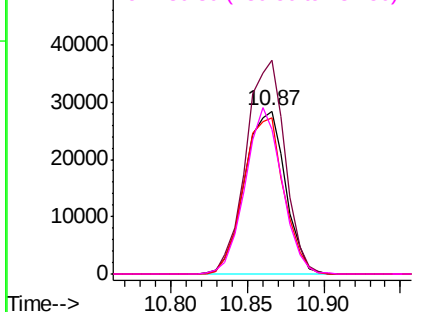
Abundance

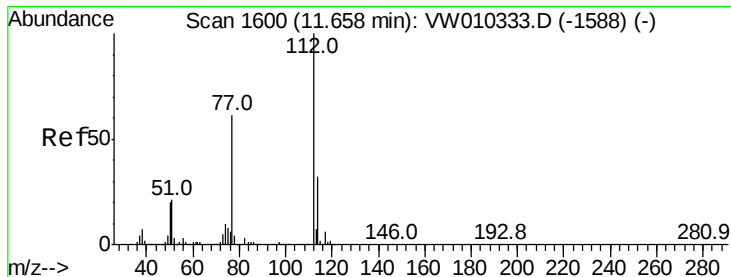
Ion 163.80 (163.50 to 164.50): V

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





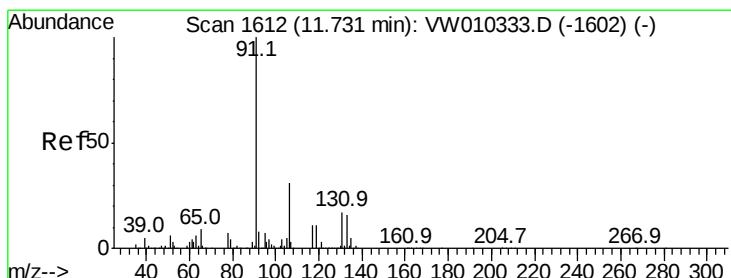
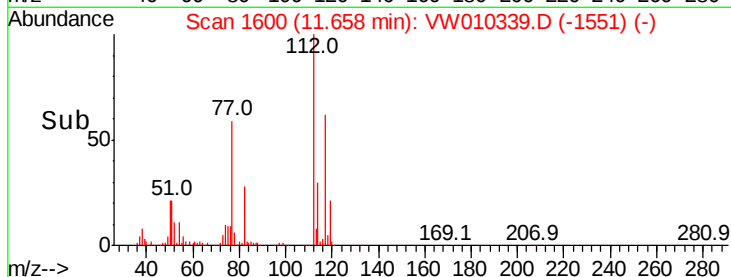
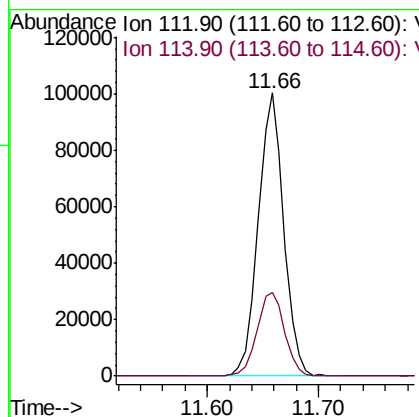
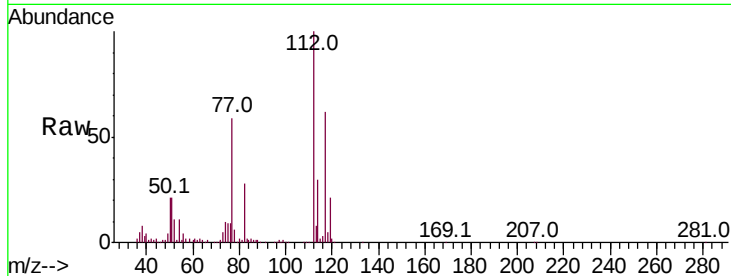
#65
Chlorobenzene
Concen: 4.246 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW010339.D
Acq: 09 May 2019 16:24

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
112	100		
114	29.8	26.5	39.7

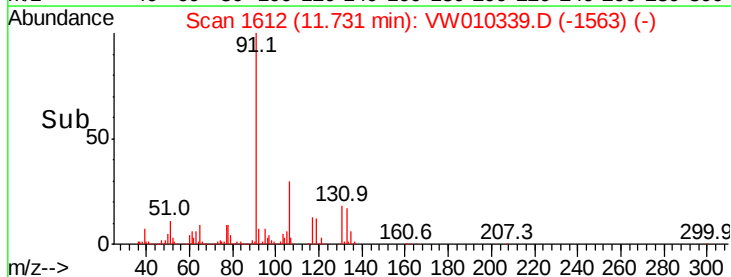
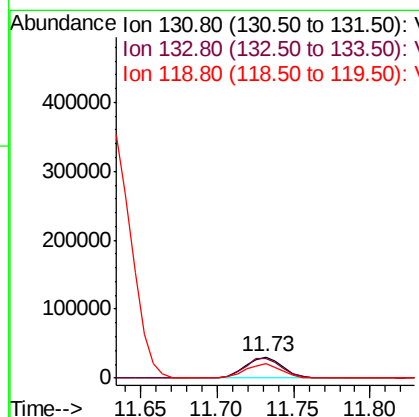
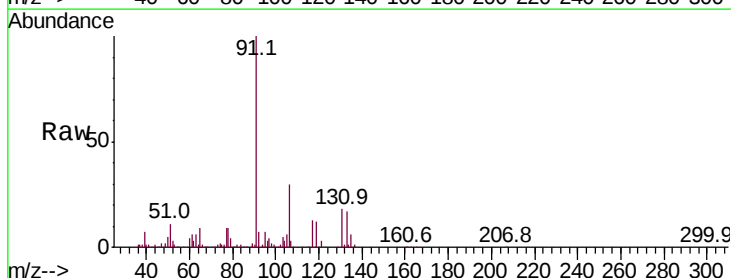
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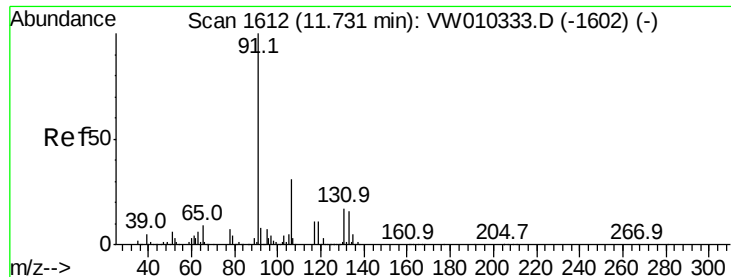
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#66
1,1,1,2-Tetrachloroethane
Concen: 4.047 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW010339.D
Acq: 09 May 2019 16:24

Tgt Ion	Ratio	Lower	Upper
131	100		
133	93.9	46.5	139.5
119	66.3	31.9	95.5





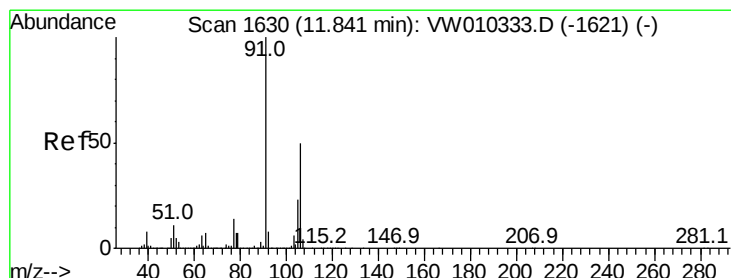
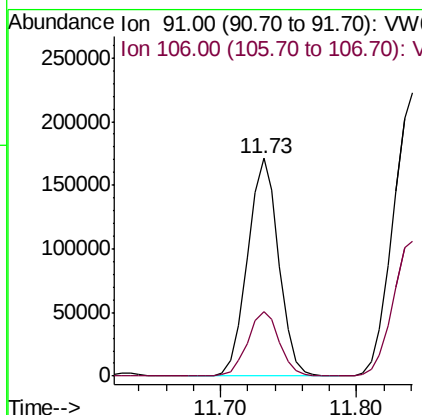
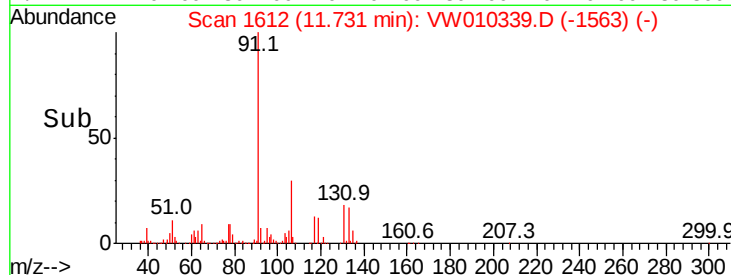
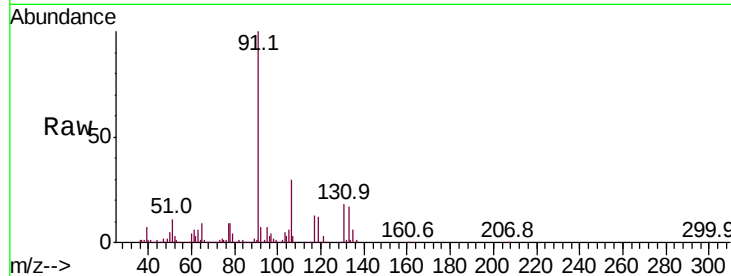
#67
Ethyl Benzene
Concen: 3.958 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW010339.D
Acq: 09 May 2019 16:24

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 91 Resp: 274643
Ion Ratio Lower Upper
91 100
106 29.5 23.8 35.8

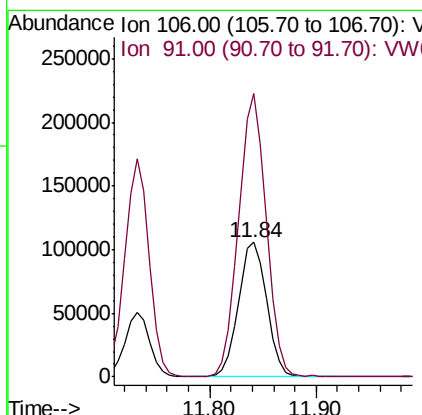
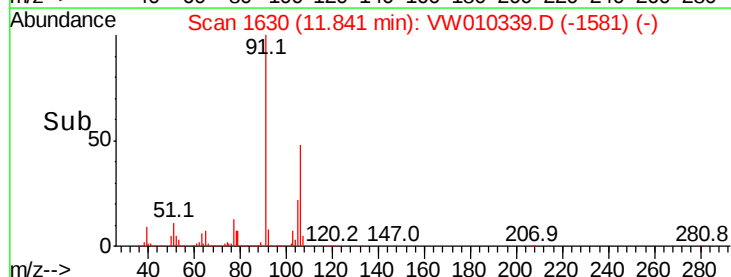
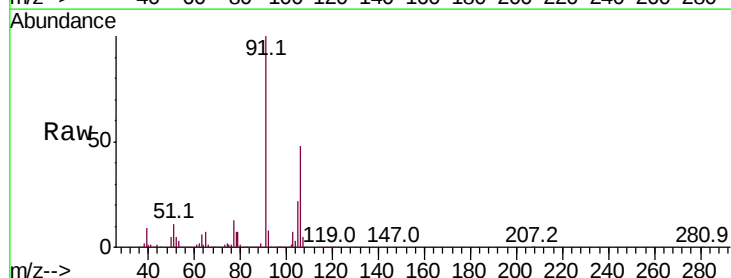
Manual Integrations
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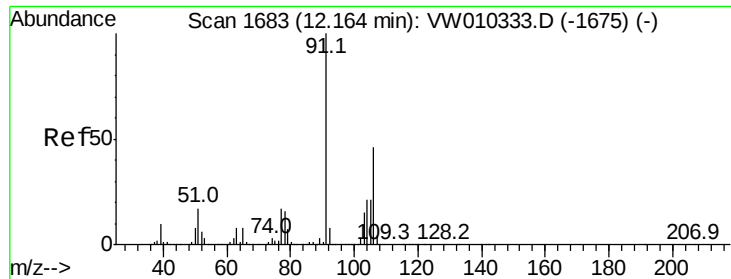
MMDadoda
5/10/2019 10:07:42 AM



#68
m/p-Xylenes
Concen: 7.663 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW010339.D
Acq: 09 May 2019 16:24

Tgt Ion: 106 Resp: 197542
Ion Ratio Lower Upper
106 100
91 205.9 165.0 247.6





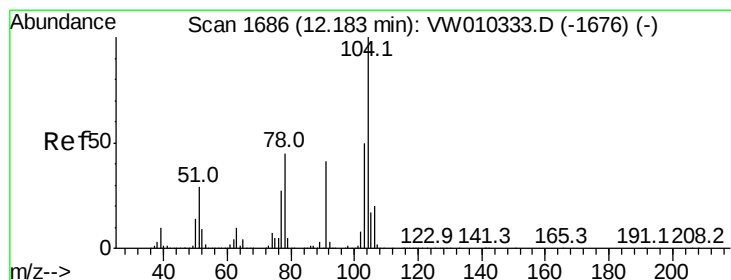
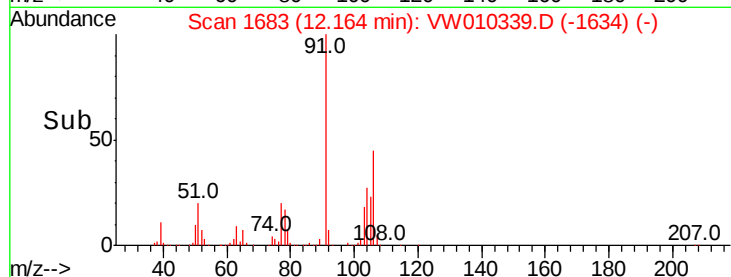
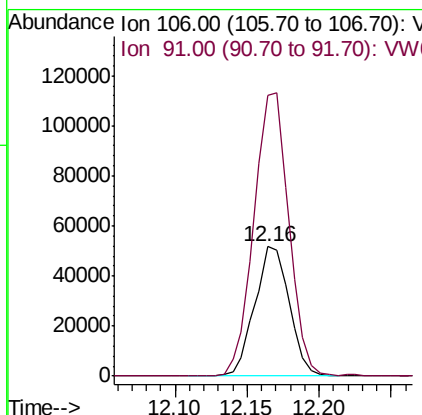
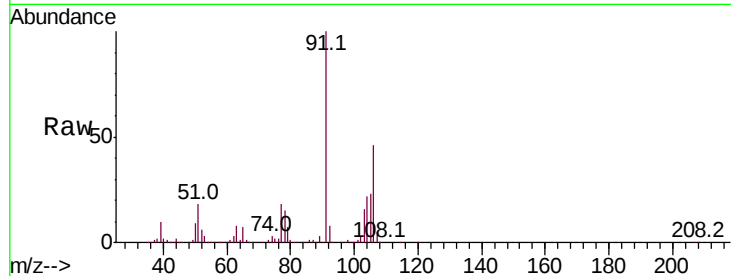
#69
o-Xylene
Concen: 3.676 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW010339.D
Acq: 09 May 2019 16:24

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion:106 Resp: 85713
Ion Ratio Lower Upper
106 100
91 221.7 110.5 331.4

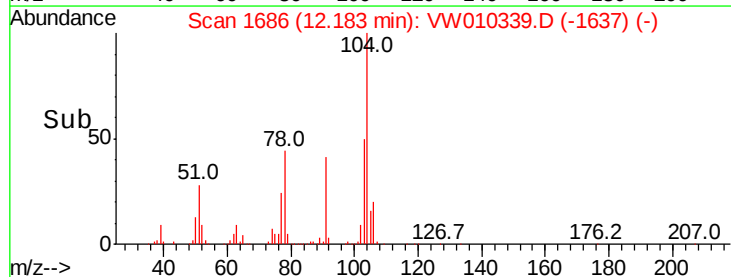
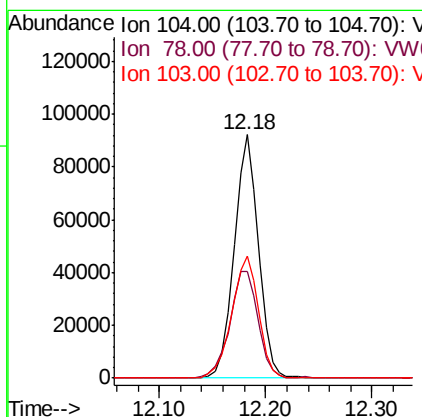
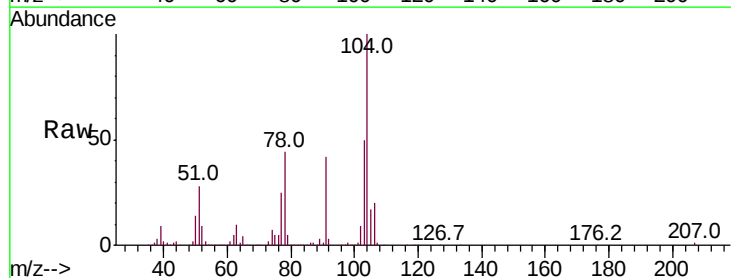
Manual Integrations
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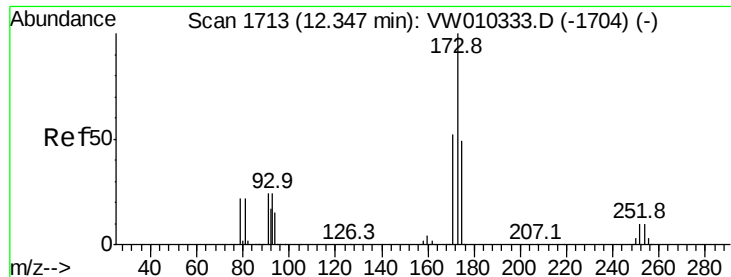
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#70
Styrene
Concen: 3.627 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW010339.D
Acq: 09 May 2019 16:24

Tgt Ion:104 Resp: 147383
Ion Ratio Lower Upper
104 100
78 51.1 42.5 63.7
103 55.2 43.6 65.4





#71

Bromoform

Concen: 3.773 ug/l

RT: 12.35 min Scan# 1714

Delta R.T. 0.01 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:173 Resp: 27496

Ion Ratio Lower Upper

173 100

175 51.1 23.8 71.4

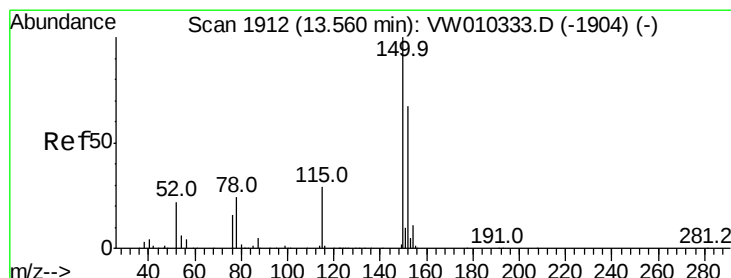
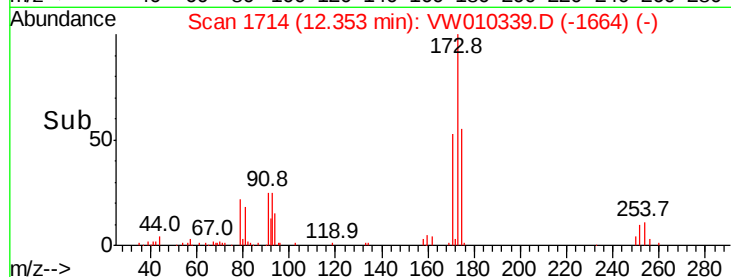
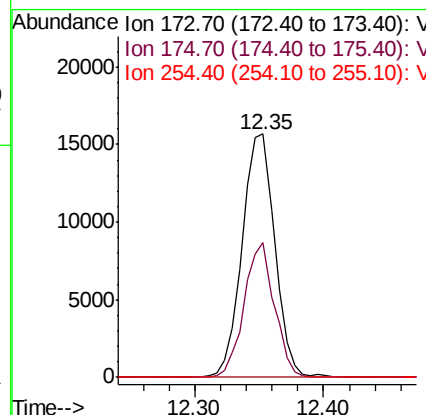
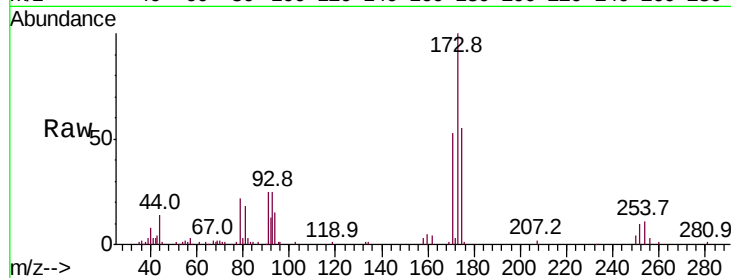
254 0.0 0.1 0.1#

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

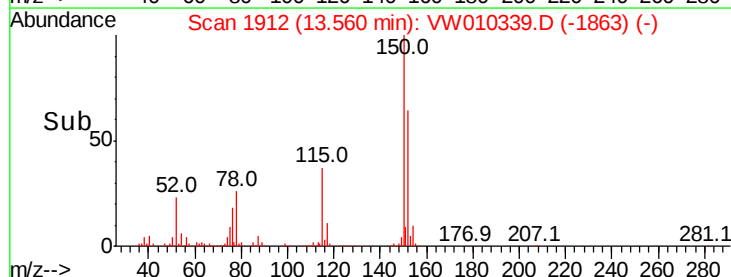
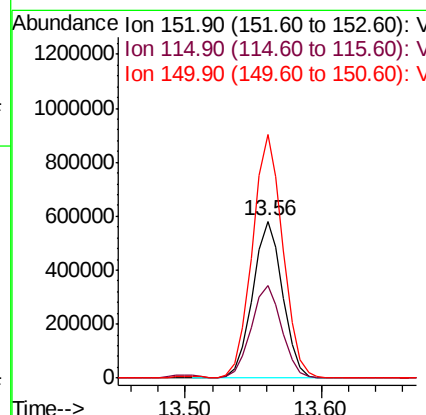
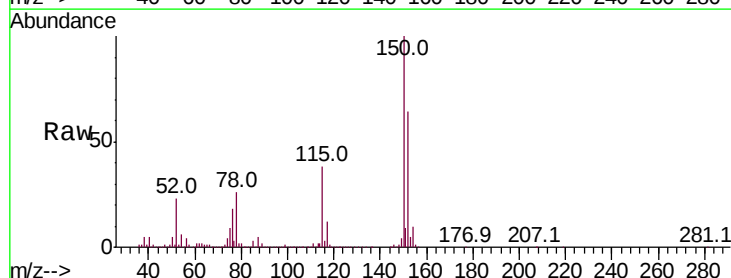
Tgt Ion:152 Resp: 898066

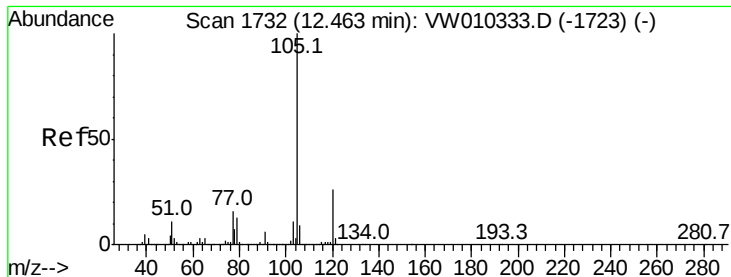
Ion Ratio Lower Upper

152 100

115 59.6 30.4 91.2

150 157.5 0.0 347.0





#73

Isopropylbenzene

Concen: 3.676 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:105 Resp: 240633

Ion Ratio Lower Upper

105 100

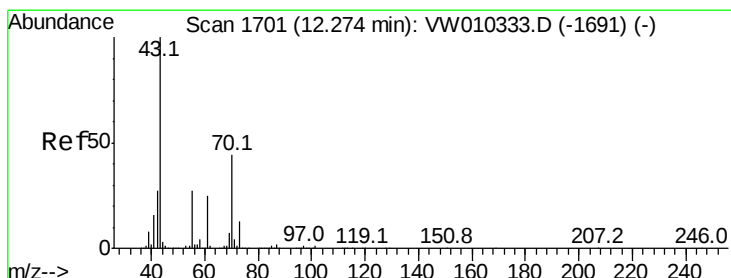
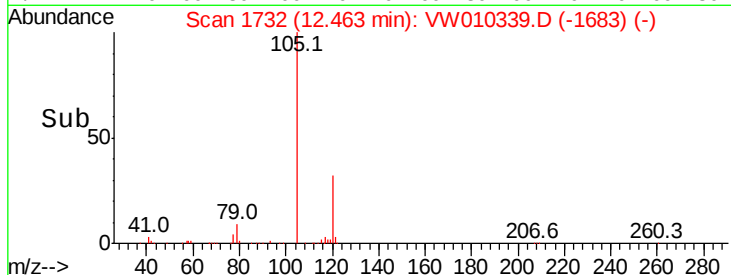
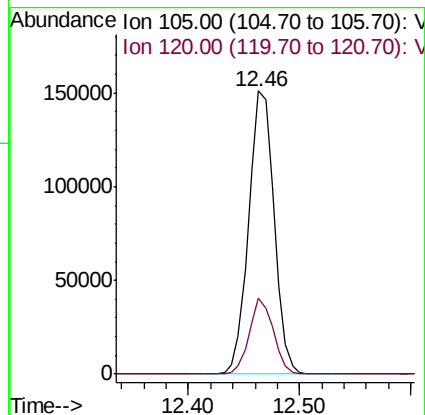
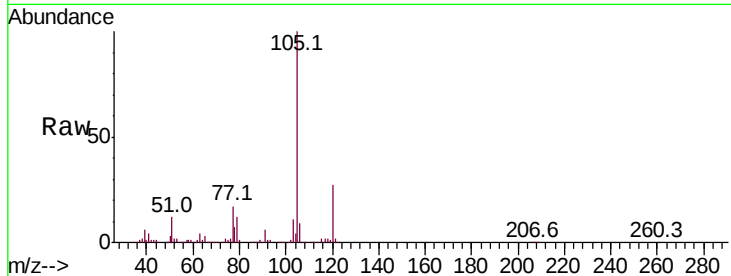
120 25.4 13.1 39.1

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#74

N-ethyl acetate

Concen: 3.484 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Tgt Ion: 43 Resp: 58924

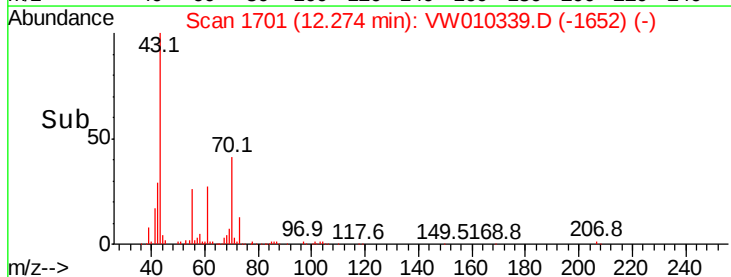
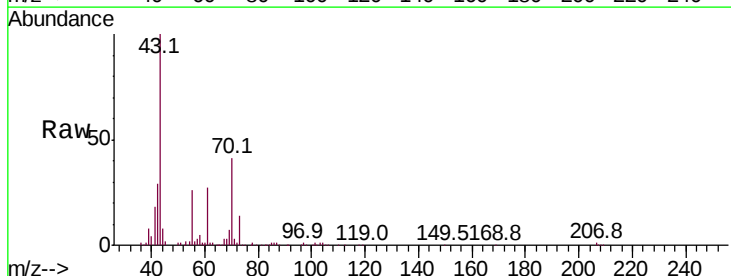
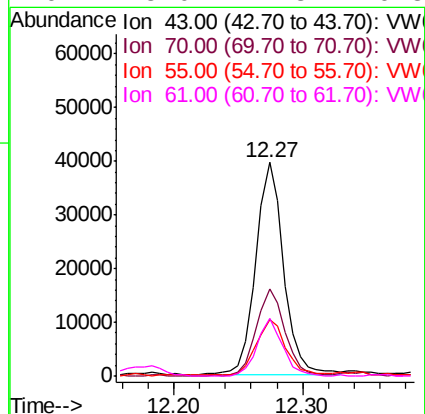
Ion Ratio Lower Upper

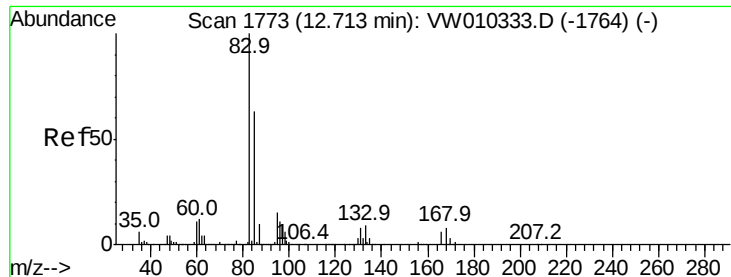
43 100

70 42.5 31.3 46.9

55 27.6 20.0 30.0

61 25.0 17.8 26.8





#75

1,1,2,2-Tetrachloroethane

Concen: 4.164 ug/l

RT: 12.72 min Scan# 1774

Delta R.T. 0.01 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Instrument :

MSVOA_W

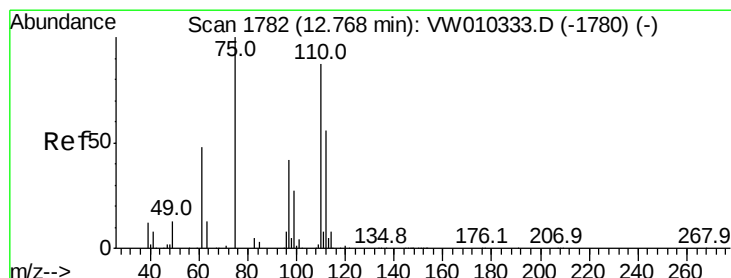
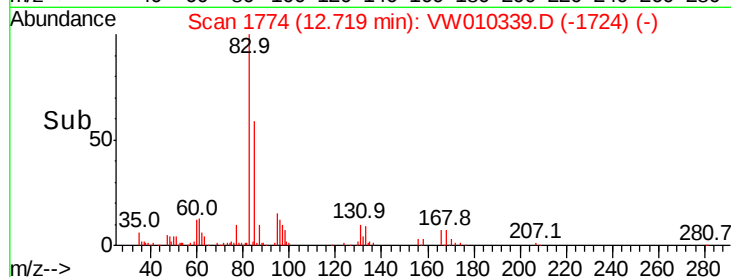
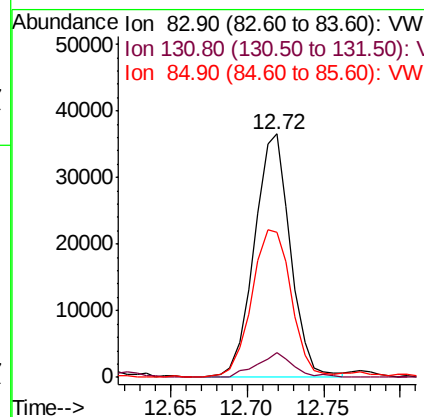
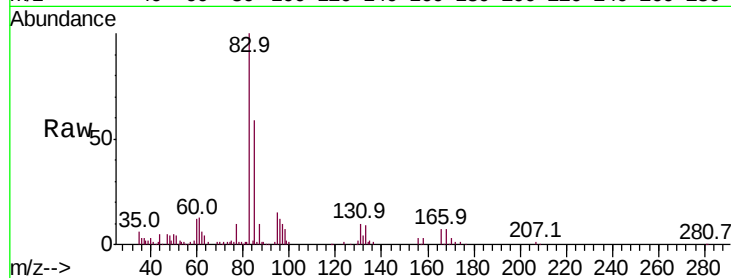
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	83	Resp:	60064
Ion Ratio	Lower	Upper	
83	100		
131	10.3	5.3	15.8
85	66.4	32.0	96.2

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#76

1,2,3-Trichloropropane

Concen: 5.063 ug/l m

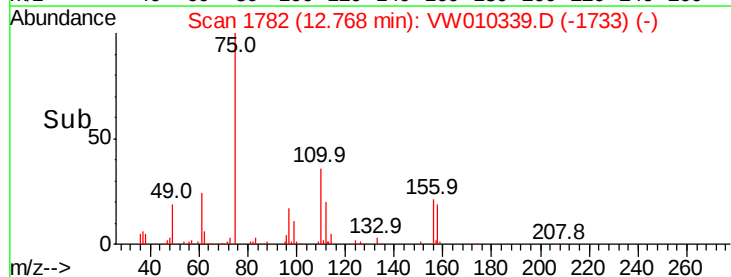
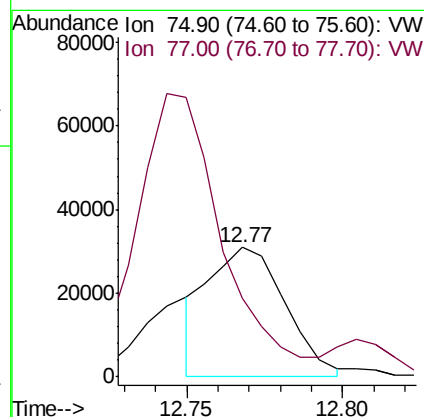
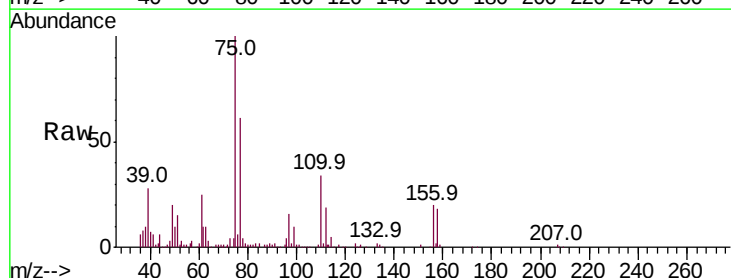
RT: 12.77 min Scan# 1782

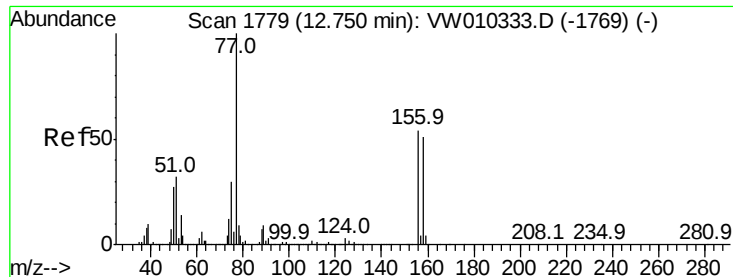
Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Tgt Ion:	75	Resp:	53015
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 4.034 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Instrument :

MSVOA_W

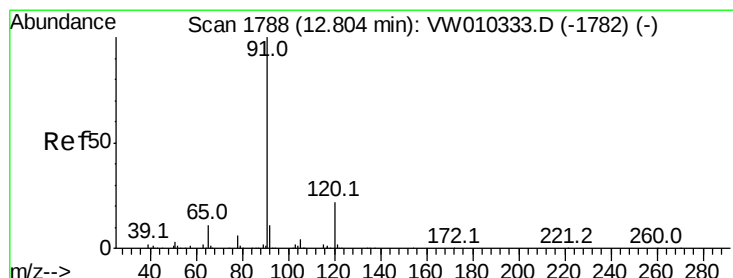
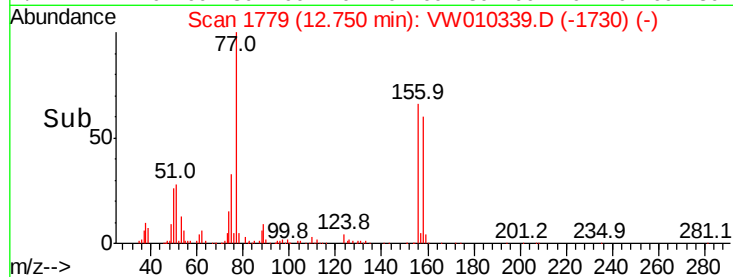
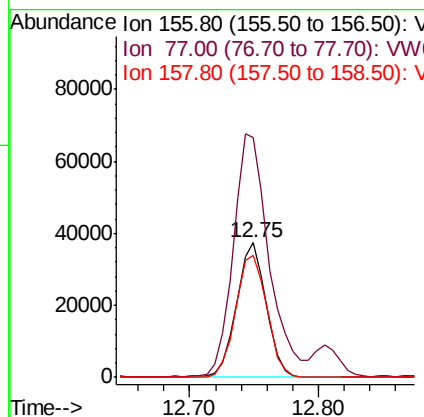
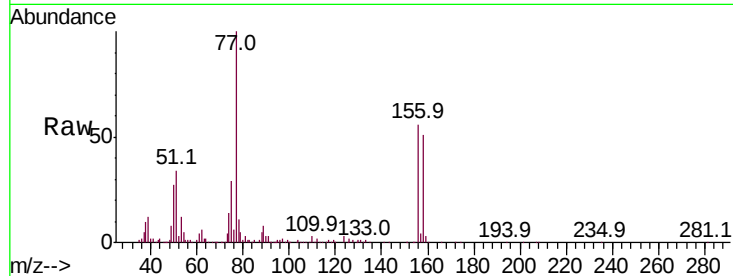
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	156	Resp:	59624
Ion Ratio	Lower	Upper	
156	100		
77	217.5	102.5	307.4
158	95.7	48.8	146.4

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#78

n-propylbenzene

Concen: 3.914 ug/l

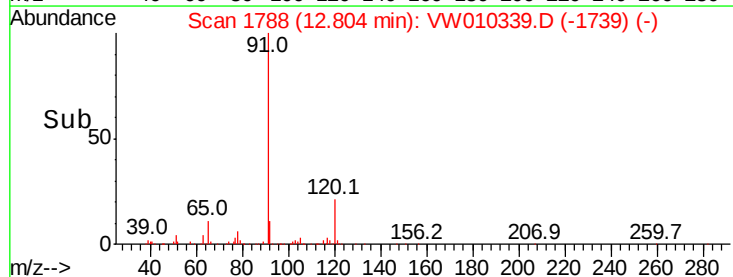
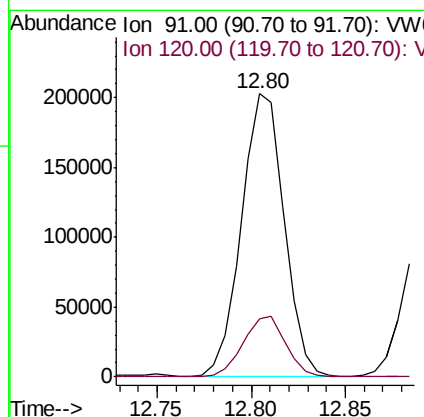
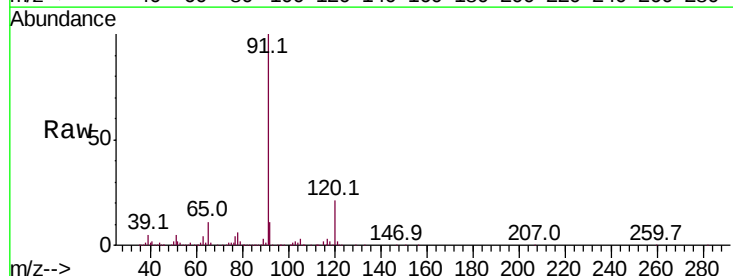
RT: 12.80 min Scan# 1788

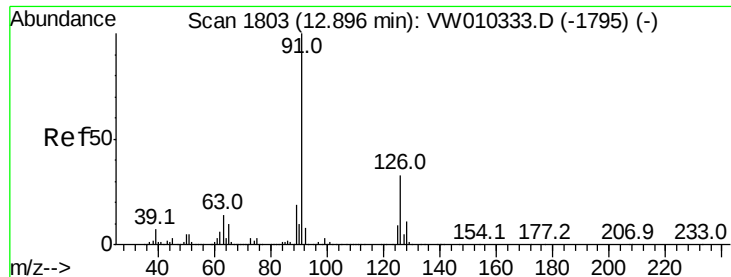
Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Tgt Ion:	91	Resp:	316446
Ion Ratio	Lower	Upper	
91	100		
120	21.4	11.1	33.1





#79

2-Chlorotoluene

Concen: 3.986 ug/l

RT: 12.90 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion: 91 Resp: 183508

Ion Ratio Lower Upper

91 100

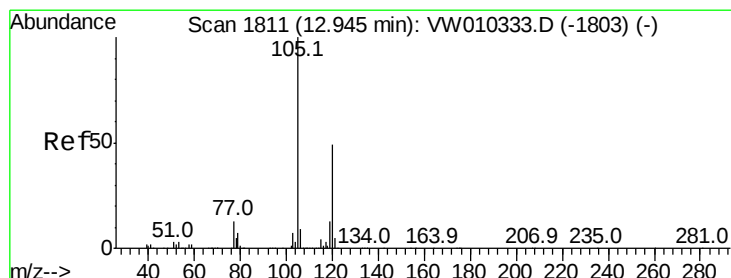
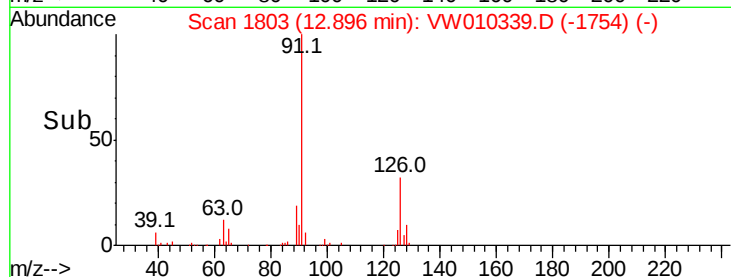
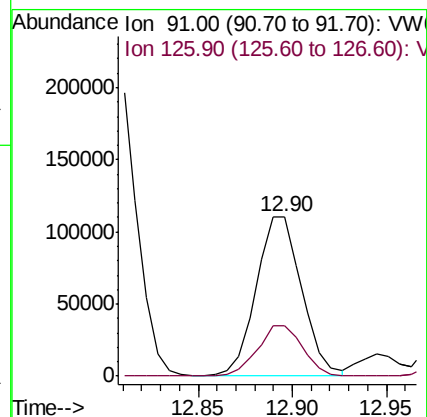
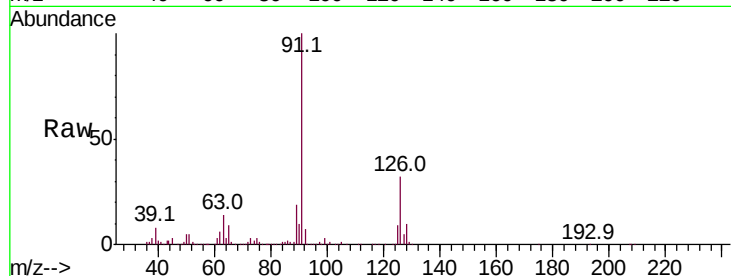
126 31.9 16.3 48.8

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#80

1,3,5-Trimethylbenzene

Concen: 3.754 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW010339.D

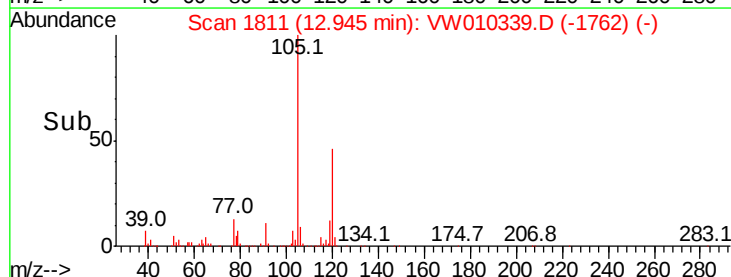
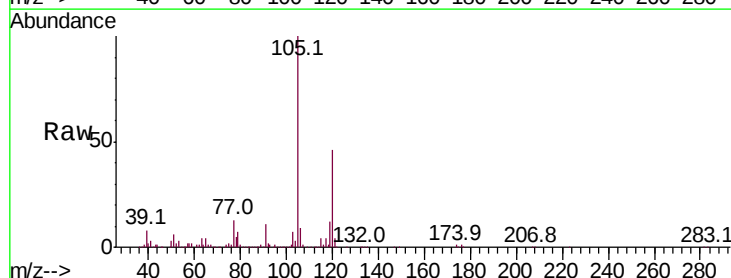
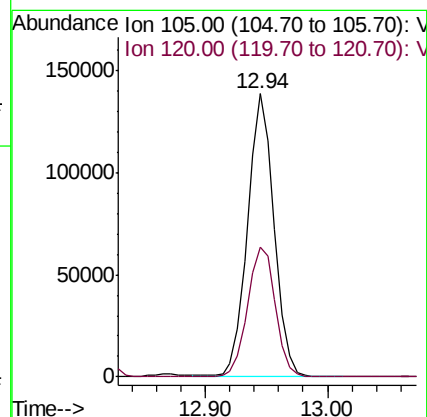
Acq: 09 May 2019 16:24

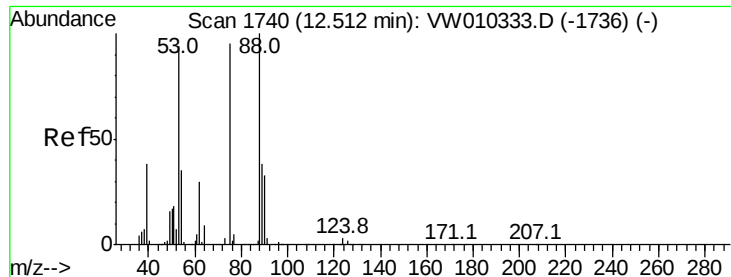
Tgt Ion:105 Resp: 207178

Ion Ratio Lower Upper

105 100

120 47.9 24.3 72.8





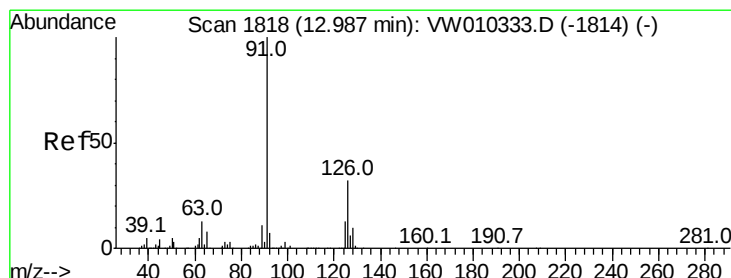
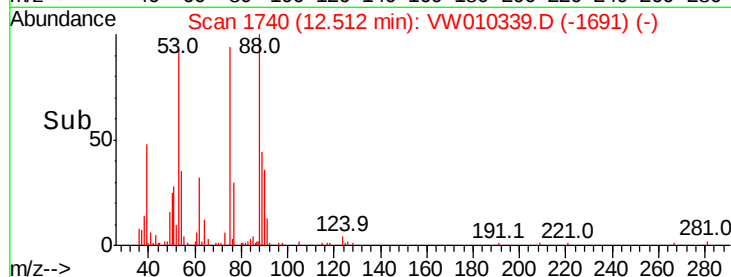
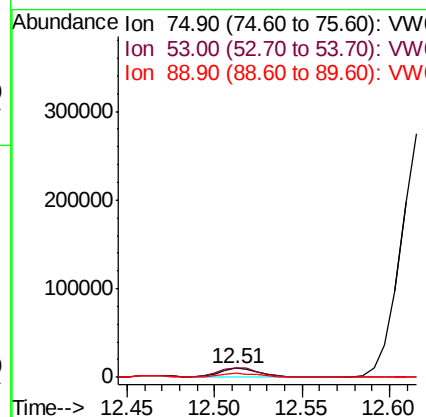
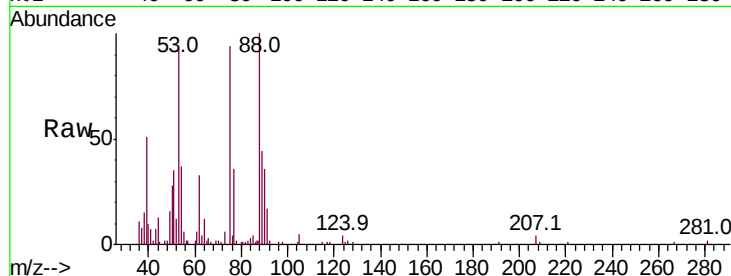
#81
trans-1,4-Dichloro-2-butene
Concen: 3.563 ug/l
RT: 12.51 min Scan# 1740
Delta R.T. 0.00 min
Lab File: VW010339.D
Acq: 09 May 2019 16:24

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
75	100		
53	110.8	89.8	134.8
89	44.3	36.6	54.8

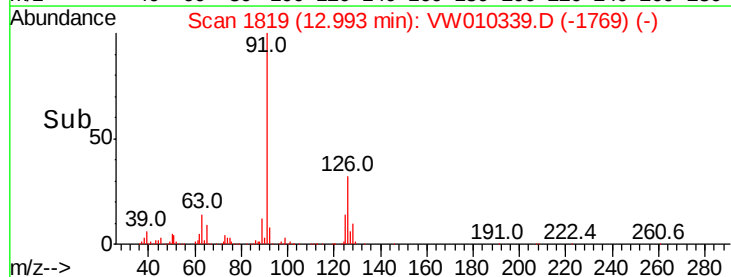
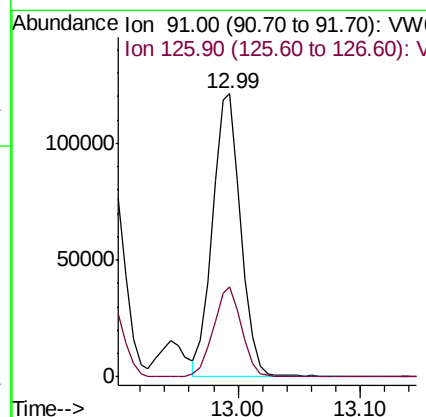
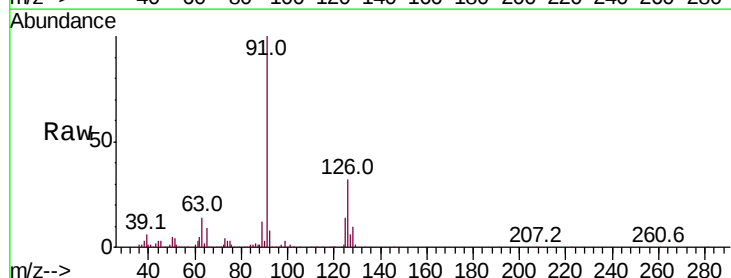
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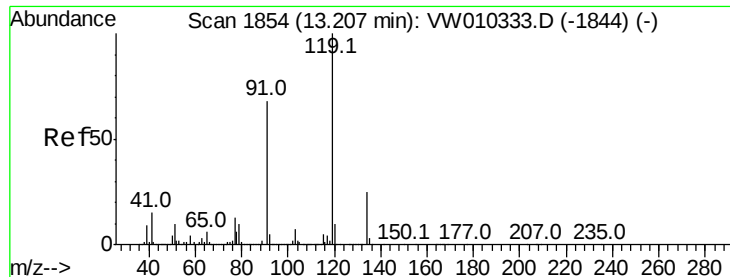
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#82
4-Chlorotoluene
Concen: 4.027 ug/l
RT: 12.99 min Scan# 1819
Delta R.T. 0.01 min
Lab File: VW010339.D
Acq: 09 May 2019 16:24

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.8	16.4	49.1





#83

tert-Butylbenzene

Concen: 3.630 ug/l

RT: 13.21 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

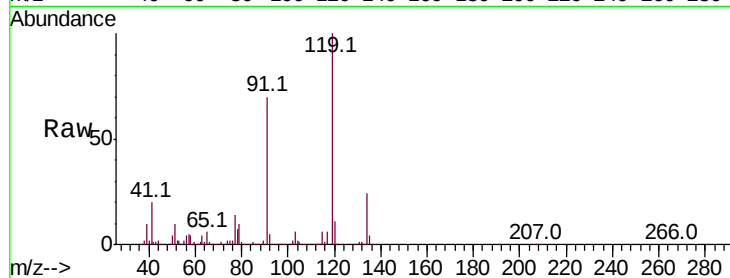
Instrument : MSVOA_W

ClientSampleId : LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
119	100		
91	68.0	34.8	104.4
134	26.0	13.7	41.1

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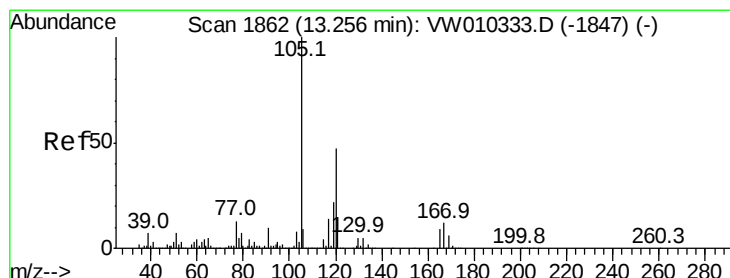
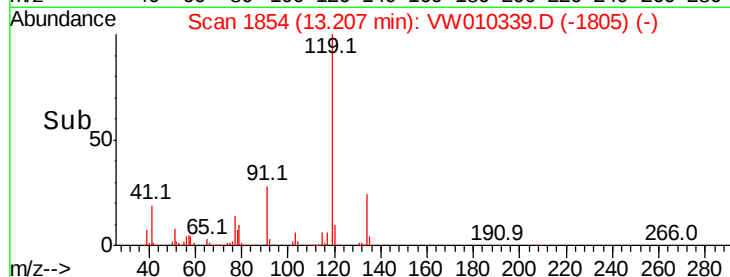
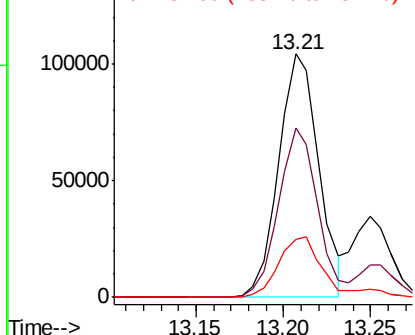
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Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 3.791 ug/l

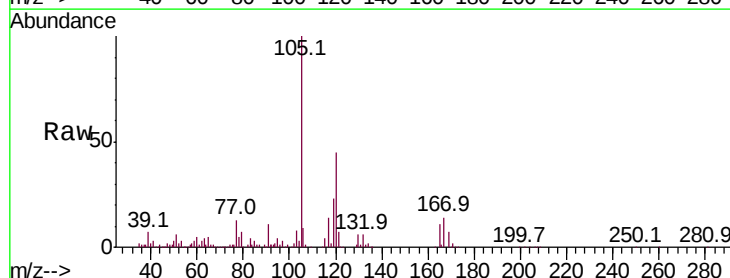
RT: 13.26 min Scan# 1862

Delta R.T. 0.00 min

Lab File: VW010339.D

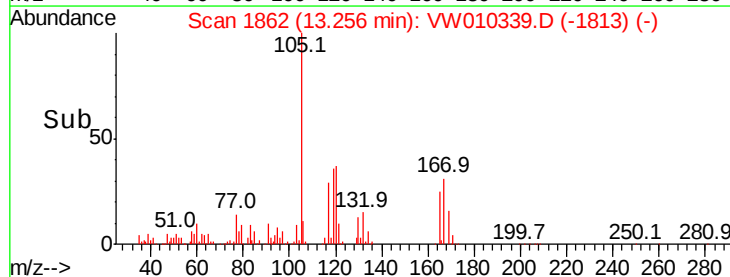
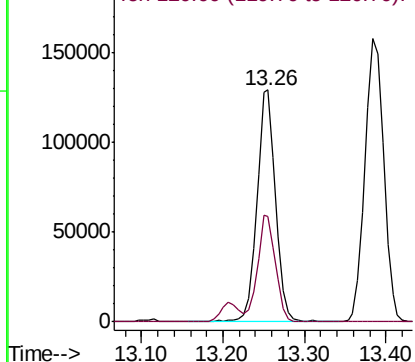
Acq: 09 May 2019 16:24

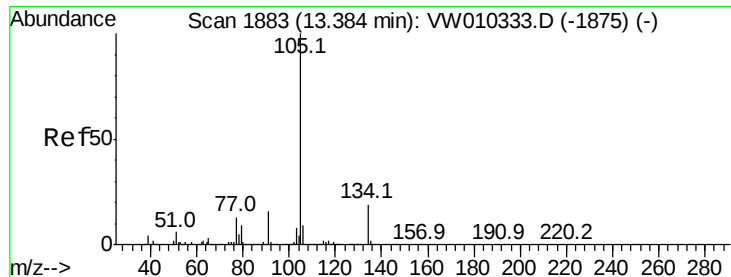
Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.6	67.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 3.651 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:105 Resp: 248079

Ion Ratio Lower Upper

105 100

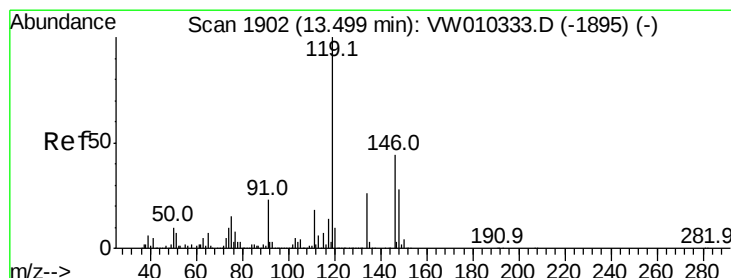
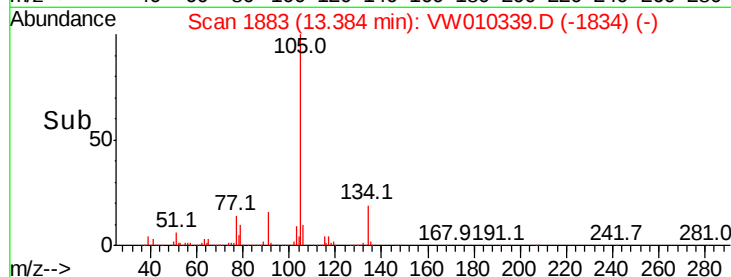
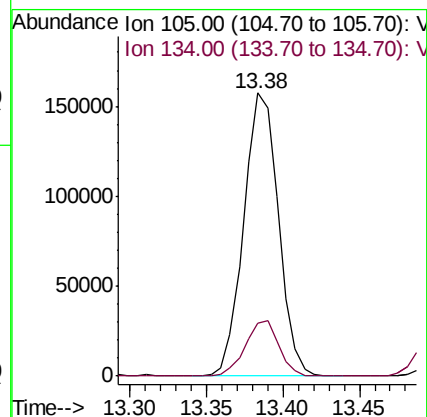
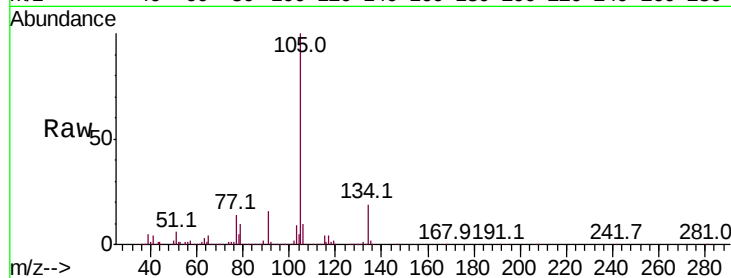
134 19.0 9.8 29.5

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#86

p-Isopropyltoluene

Concen: 3.525 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

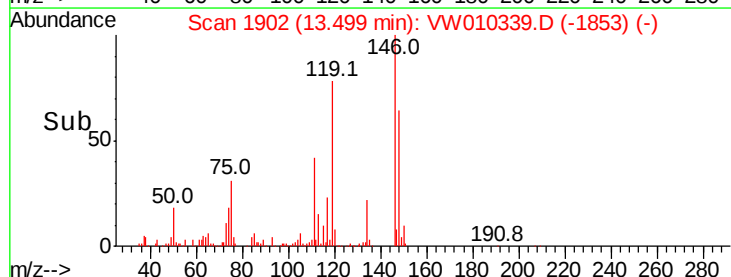
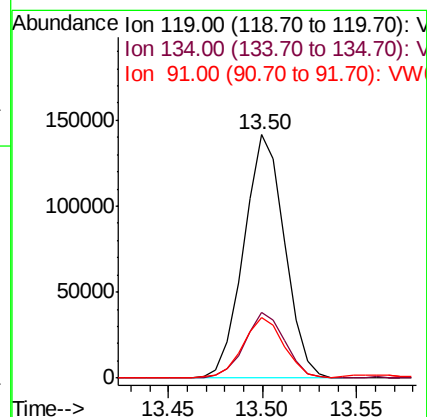
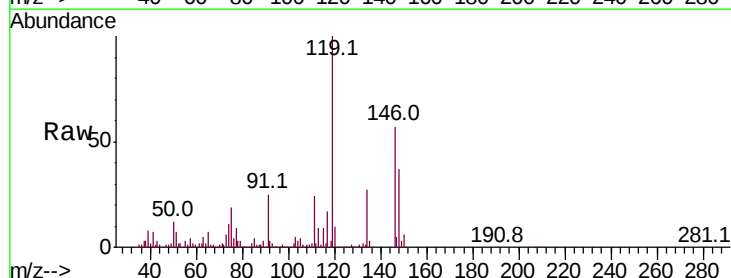
Tgt Ion:119 Resp: 212701

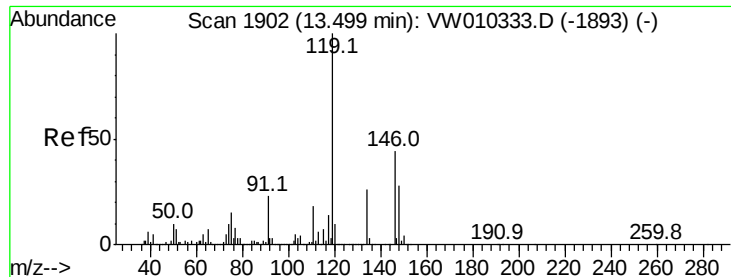
Ion Ratio Lower Upper

119 100

134 26.5 13.0 38.9

91 24.9 12.3 36.9





#87

1,3-Dichlorobenzene

Concen: 4.470 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

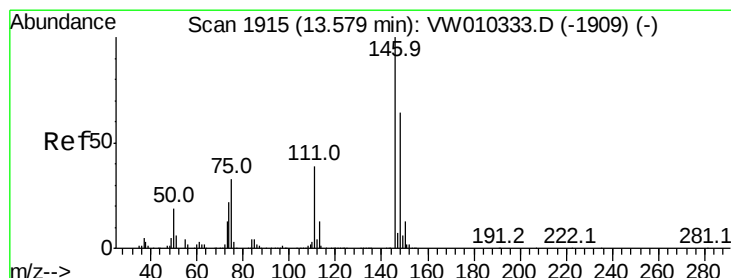
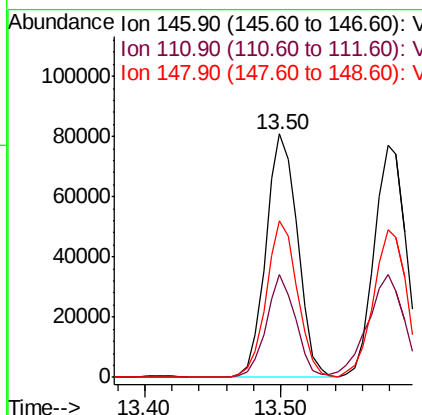
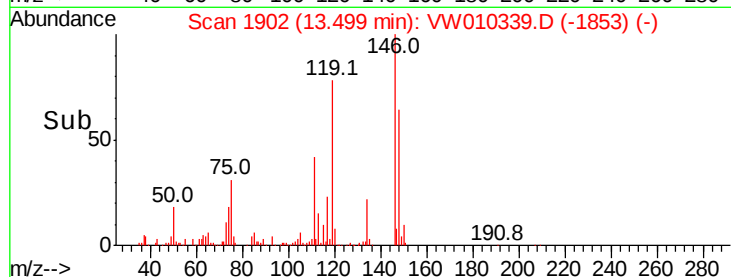
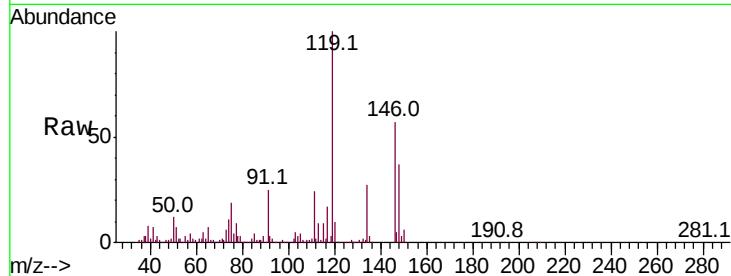
Instrument :
MSVOA_W

ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.5	20.3	61.0
148	63.0	32.0	96.2

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#88

1,4-Dichlorobenzene

Concen: 4.306 ug/l

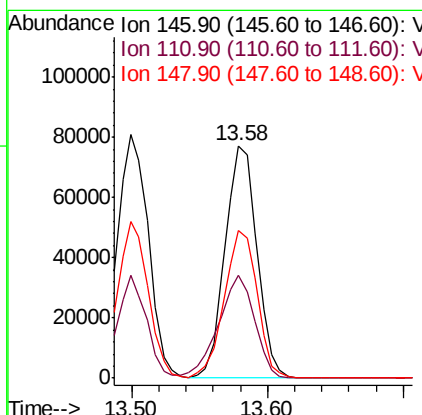
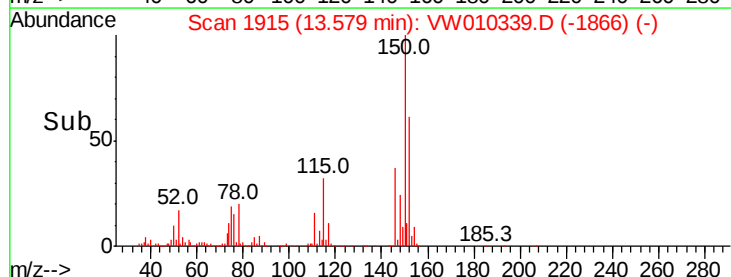
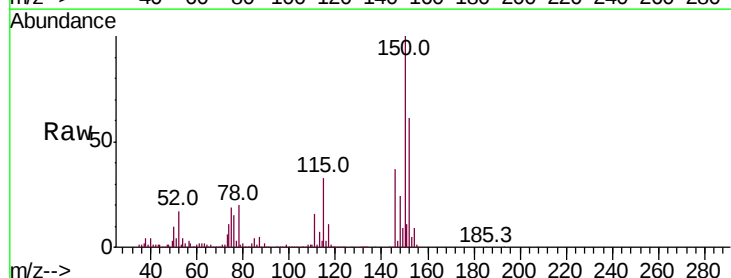
RT: 13.58 min Scan# 1915

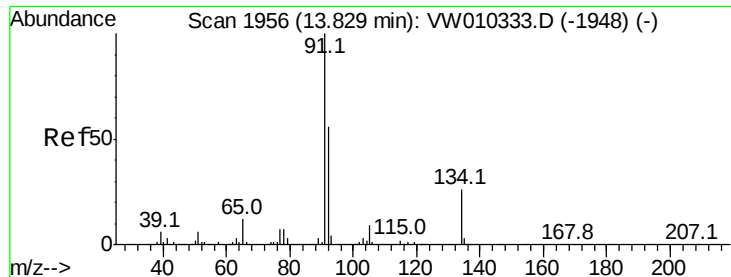
Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Tgt Ion	Ratio	Lower	Upper
146	100		
111	49.7	20.1	60.3
148	65.3	31.8	95.3





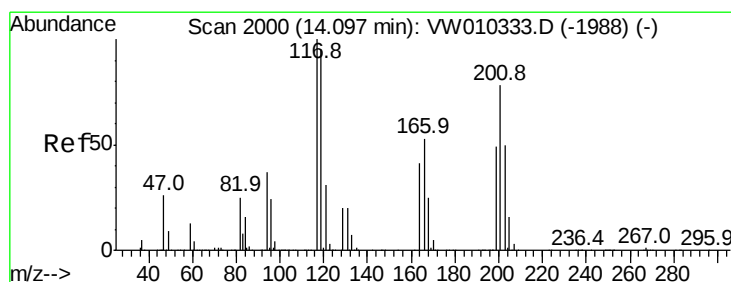
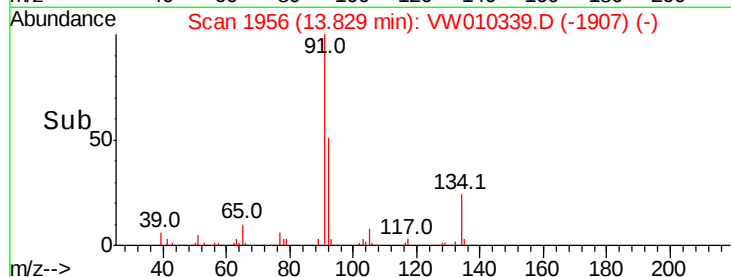
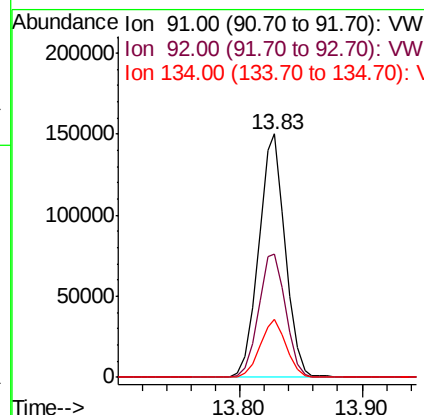
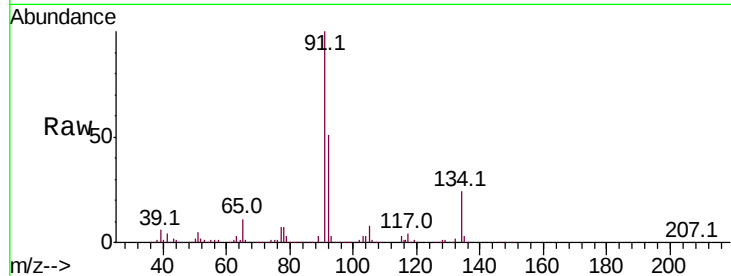
#89
n-Butylbenzene
Concen: 3.733 ug/l
RT: 13.83 min Scan# 1956
Delta R.T. 0.00 min
Lab File: VW010339.D
Acq: 09 May 2019 16:24

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.2	26.5	79.4
134	23.7	12.4	37.0

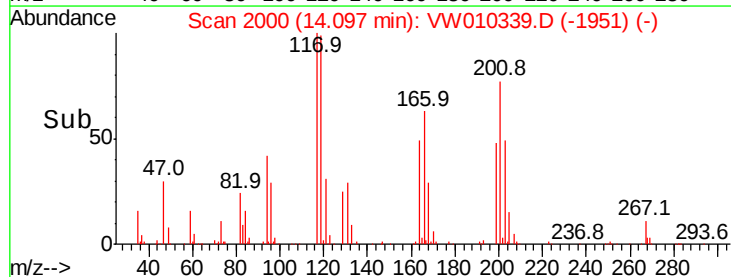
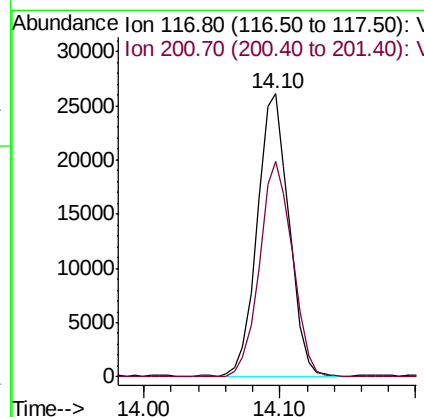
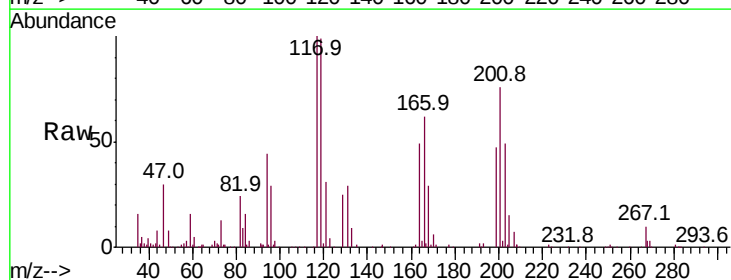
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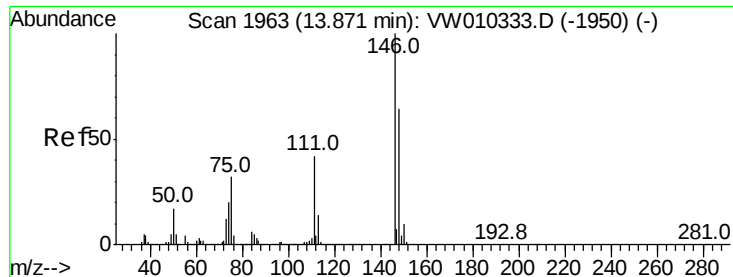
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#90
Hexachloroethane
Concen: 3.835 ug/l
RT: 14.10 min Scan# 2000
Delta R.T. 0.00 min
Lab File: VW010339.D
Acq: 09 May 2019 16:24

Tgt Ion	Ratio	Lower	Upper
117	100		
201	78.7	36.1	108.3





#91

1,2-Dichlorobenzene

Concen: 4.238 ug/l

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Instrument :

MSVOA_W

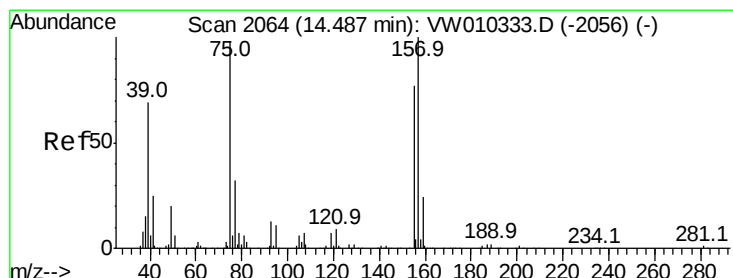
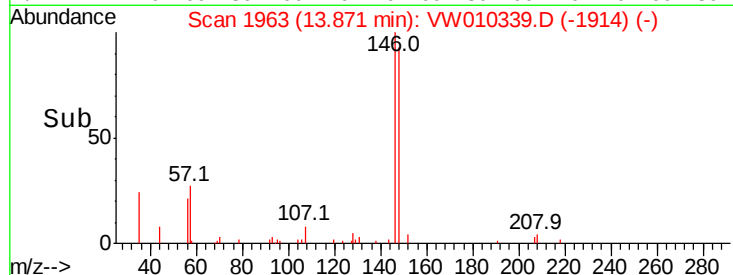
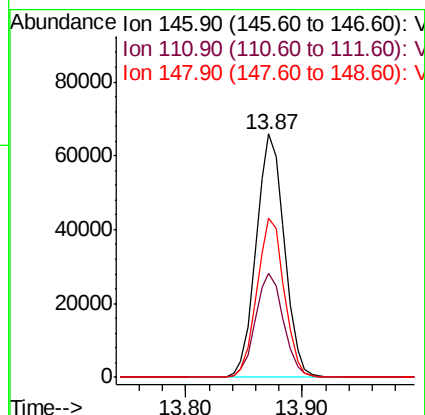
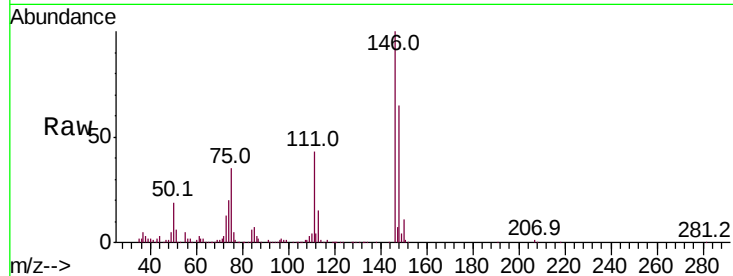
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	146	Resp:	110721
Ion Ratio	Lower	Upper	
146	100		
111	42.6	20.9	62.8
148	63.9	31.9	95.7

Manual Integrations
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#92

1,2-Dibromo-3-Chloropropane

Concen: 4.300 ug/l

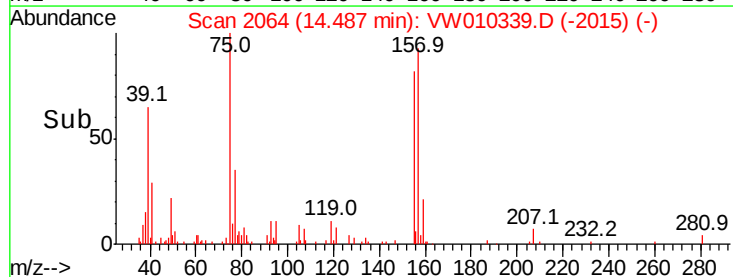
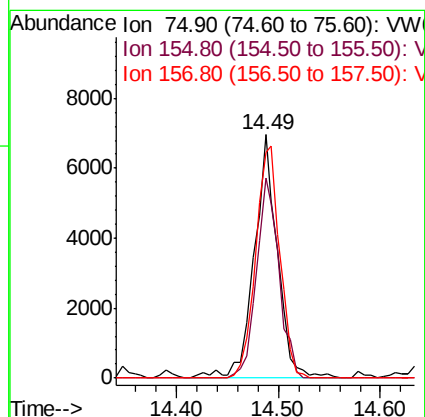
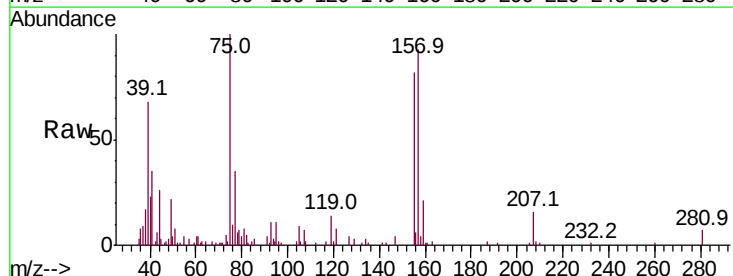
RT: 14.49 min Scan# 2064

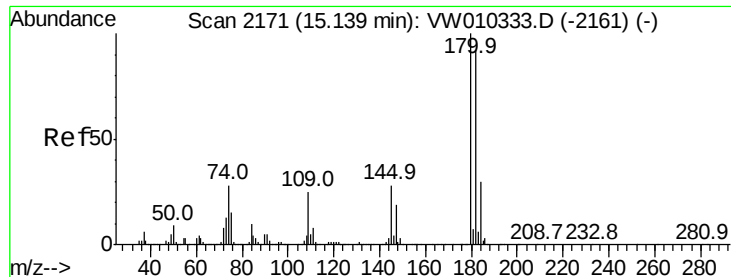
Delta R.T. 0.00 min

Lab File: VW010339.D

Acq: 09 May 2019 16:24

Tgt Ion:	75	Resp:	11168
Ion Ratio	Lower	Upper	
75	100		
155	79.2	37.1	111.5
157	98.5	47.3	141.9





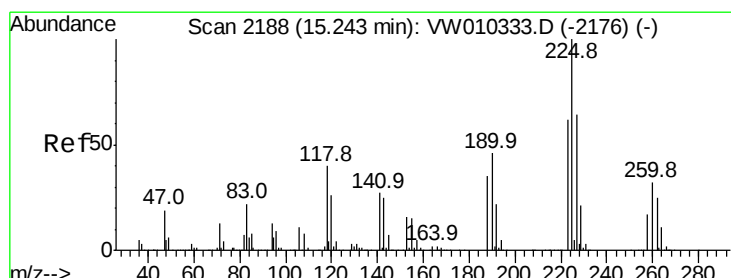
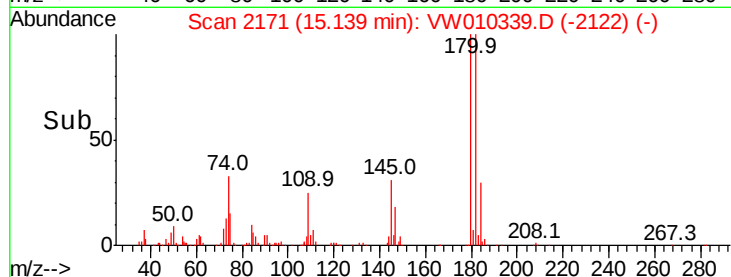
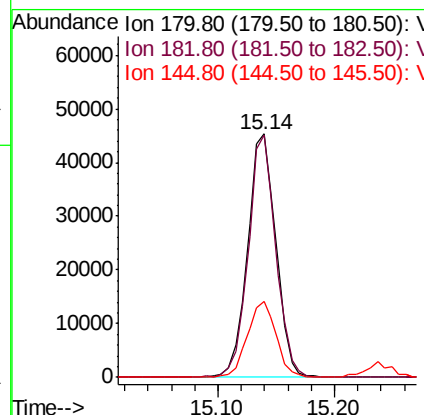
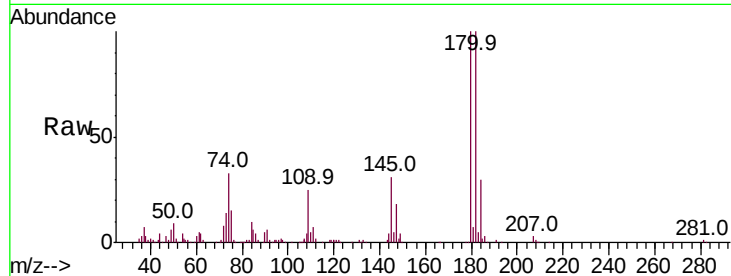
#93
 1,2,4-Trichlorobenzene
 Concen: 4.316 ug/l
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW010339.D
 Acq: 09 May 2019 16:24

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	96.4	47.1	141.4	
145	31.6	15.2	45.6	

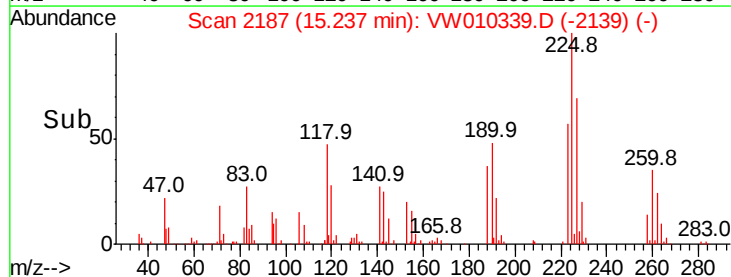
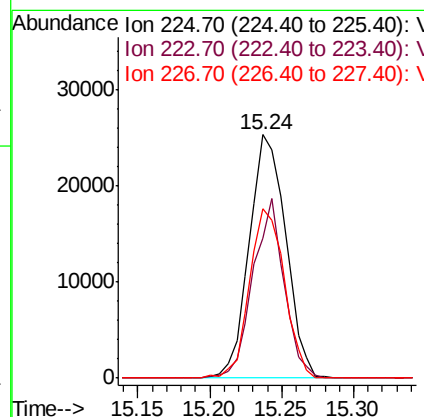
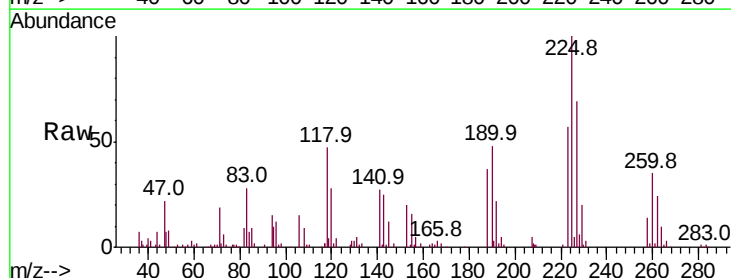
Manual Integrations
 APPROVED

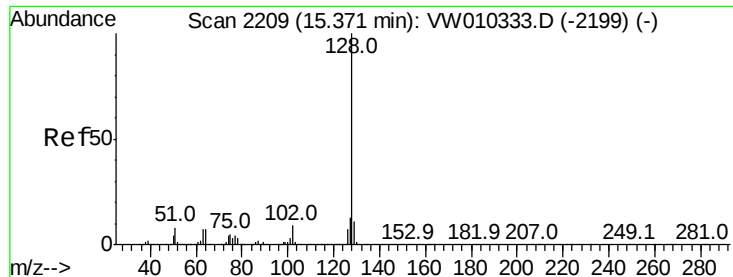
MMDadoda
 5/10/2019 10:07:42 AM



#94
 Hexachlorobutadiene
 Concen: 3.897 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. -0.01 min
 Lab File: VW010339.D
 Acq: 09 May 2019 16:24

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.5	31.9	95.5	
227	66.2	31.8	95.3	





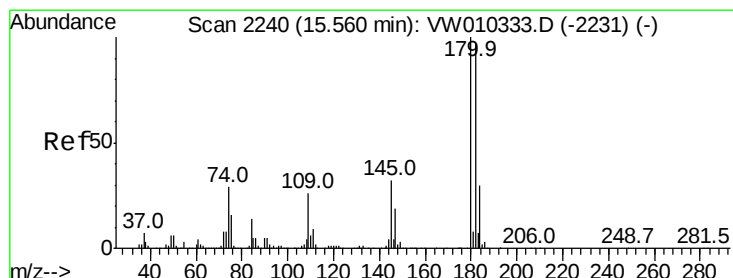
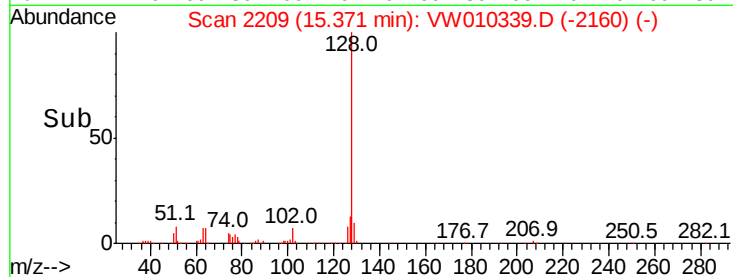
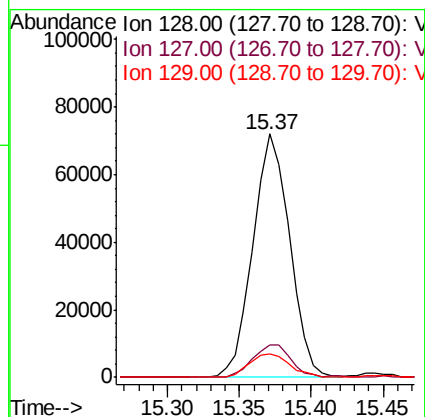
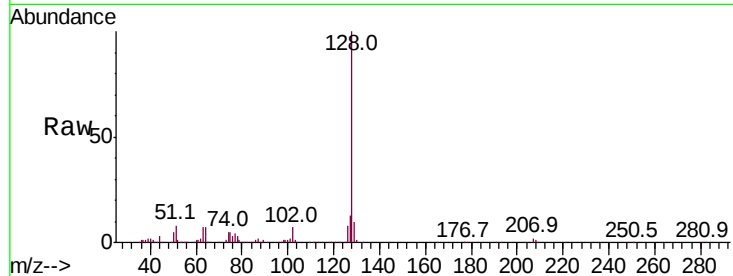
#95
Naphthalene
Concen: 3.491 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW010339.D
Acq: 09 May 2019 16:24

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
128	100			
127	14.1	10.6	15.8	
129	10.8	8.7	13.1	

Manual Integrations
APPROVED

MMDadoda
5/10/2019 10:07:42 AM



#96
1,2,3-Trichlorobenzene
Concen: 3.660 ug/l
RT: 15.56 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VW010339.D
Acq: 09 May 2019 16:24

Tgt Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.6	47.8	143.3	
145	33.3	16.4	49.2	

