

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW100819\
 Data File : VW013488.D
 Acq On : 08 Oct 2019 15:53
 Operator : SY/VA
 Sample : K5111-01 2.5PPBLOD
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

Manual Integrations
 APPROVED

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 10/9/2019 4:09:55 PM

Quant Time: Oct 09 05:52:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W100819S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 09 05:37:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	328179	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	474824	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	406990	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	203584	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	132779	52.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.74%	
35) Dibromofluoromethane	7.88	113	132986	50.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.30%	
50) Toluene-d8	10.32	98	562823	50.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.00%	
62) 4-Bromofluorobenzene	12.62	95	189882	50.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.44%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	2507	2.306	ug/l #	62
3) Chloromethane	2.21	50	5247	2.746	ug/l	92
4) Vinyl Chloride	2.36	62	7341	2.605	ug/l	98
5) Bromomethane	2.77	94	4865	2.893	ug/l	82
6) Chloroethane	2.91	64	4247	2.683	ug/l #	82
7) Trichlorofluoromethane	3.25	101	3064	2.298	ug/l #	72
8) Diethyl Ether	3.68	74	3550	2.572	ug/l	88
9) 1,1,2-Trichlorotrifluoroet	4.06	101	7186	2.615	ug/l #	56
10) Methyl Iodide	4.27	142	11070	2.544	ug/l	98
11) Tert butyl alcohol	5.17	59	3810	17.759	ug/l #	84
12) 1,1-Dichloroethene	4.04	96	7525	2.642	ug/l	98
13) Acrolein	3.89	56	847	4.098	ug/l	91
14) Allyl chloride	4.67	41	10562	2.413	ug/l	99
15) Acrylonitrile	5.37	53	8062	12.497	ug/l	97
16) Acetone	4.14	43	10496	17.789	ug/l #	88
17) Carbon Disulfide	4.38	76	20421	2.554	ug/l	99
18) Methyl Acetate	4.68	43	6114	3.617	ug/l	90
19) Methyl tert-butyl Ether	5.42	73	11954	2.775	ug/l	94
20) Methylene Chloride	4.92	84	19323	5.949	ug/l	97
21) trans-1,2-Dichloroethene	5.42	96	7521	2.485	ug/l	98
22) Diisopropyl ether	6.31	45	21212	2.586	ug/l	97
23) Vinyl Acetate	6.25	43	53973	10.962	ug/l #	94
24) 1,1-Dichloroethane	6.21	63	12490	2.492	ug/l	98
25) 2-Butanone	7.18	43	13529	15.558	ug/l #	84
26) 2,2-Dichloropropane	7.15	77	11689	3.617	ug/l	81
27) cis-1,2-Dichloroethene	7.17	96	8287	2.588	ug/l	84
28) Bromochloromethane	7.51	49	5121	2.864	ug/l #	98
29) Tetrahydrofuran	7.54	42	7215	13.576	ug/l	99
30) Chloroform	7.67	83	13231	2.729	ug/l	94
31) Cyclohexane	7.95	56	17802	3.355	ug/l #	60
32) 1,1,1-Trichloroethane	7.87	97	10008	2.539	ug/l	95
36) 1,1-Dichloropropene	8.08	75	11061	2.575	ug/l	98
37) Ethyl Acetate	7.25	43	5734	2.942	ug/l #	79
38) Carbon Tetrachloride	8.06	117	8839	2.321	ug/l	96

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.33	83	14295	2.569	ug/l	97
40) Benzene	8.32	78	30561	2.549	ug/l	97
41) Methacrylonitrile	7.49	41	2305	2.080	ug/l #	78
42) 1,2-Dichloroethane	8.40	62	7648	2.524	ug/l	96
43) Isopropyl Acetate	8.42	43	8811	2.502	ug/l	99
44) Trichloroethene	9.09	130	8794	2.571	ug/l	91
45) 1,2-Dichloropropane	9.37	63	7051	2.450	ug/l	91
46) Dibromomethane	9.46	93	3458	2.412	ug/l	98
47) Bromodichloromethane	9.64	83	8592	2.411	ug/l	89
48) Methyl methacrylate	9.44	41	4416	2.546	ug/l	96
49) 1,4-Dioxane	9.46	88	1132	44.966	ug/l #	83
51) 4-Methyl-2-Pentanone	10.21	43	24673	13.329	ug/l	98
52) Toluene	10.38	92	19582	2.535	ug/l	100
53) t-1,3-Dichloropropene	10.60	75	8725	2.356	ug/l	95
54) cis-1,3-Dichloropropene	10.07	75	10454	2.330	ug/l	94
55) 1,1,2-Trichloroethane	10.79	97	5534	2.572	ug/l	93
56) Ethyl methacrylate	10.65	69	6424	2.216	ug/l #	88
57) 1,3-Dichloropropane	10.93	76	9247	2.502	ug/l	94
58) 2-Chloroethyl Vinyl ether	9.93	63	18428	13.477	ug/l	98
59) 2-Hexanone	10.97	43	14424	11.363	ug/l	98
60) Dibromochloromethane	11.13	129	6057	2.447	ug/l	100
61) 1,2-Dibromoethane	11.23	107	5439	2.657	ug/l	96
64) Tetrachloroethene	10.86	164	8123	2.712	ug/l	97
65) Chlorobenzene	11.66	112	21413	2.648	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.73	131	7555	2.689	ug/l	96
67) Ethyl Benzene	11.73	91	37689	2.550	ug/l	100
68) m/p-Xylenes	11.84	106	28066	4.990	ug/l	96
69) o-Xylene	12.17	106	12973	2.497	ug/l	99
70) Styrene	12.18	104	20651	2.315	ug/l	99
71) Bromoform	12.35	173	3379	2.192	ug/l #	94
73) Isopropylbenzene	12.46	105	35433	2.430	ug/l	98
74) N-amyl acetate	12.27	43	7133	2.237	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.72	83	6161	2.479	ug/l	99
76) 1,2,3-Trichloropropane	12.77	75	3157m	1.862	ug/l	
77) Bromobenzene	12.74	156	9280	2.685	ug/l	96
78) n-propylbenzene	12.80	91	43065	2.554	ug/l	100
79) 2-Chlorotoluene	12.89	91	24258	2.568	ug/l	99
80) 1,3,5-Trimethylbenzene	12.94	105	30703	2.534	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.52	75	1815m	2.188	ug/l	
82) 4-Chlorotoluene	12.99	91	25089	2.559	ug/l	97
83) tert-Butylbenzene	13.21	119	27530	2.558	ug/l	98
84) 1,2,4-Trimethylbenzene	13.25	105	31290	2.611	ug/l	96
85) sec-Butylbenzene	13.38	105	37023	2.490	ug/l	96
86) p-Isopropyltoluene	13.50	119	34720	2.542	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	18142	2.768	ug/l	98
88) 1,4-Dichlorobenzene	13.58	146	17677	2.753	ug/l	85
89) n-Butylbenzene	13.82	91	30474	2.469	ug/l	98
90) Hexachloroethane	14.09	117	5779	2.472	ug/l	92
91) 1,2-Dichlorobenzene	13.87	146	15817	2.733	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.48	75	1117	2.819	ug/l	85

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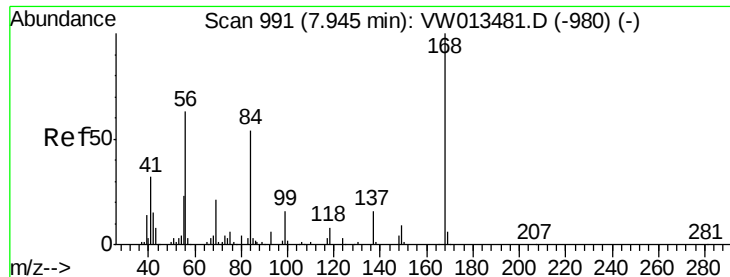
Manual Integrations
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10/9/2019 4:09:55 PM

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W100819S.M
Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	10615	2.595	ug/l	98
94) Hexachlorobutadiene	15.23	225	8067	2.968	ug/l	96
95) Naphthalene	15.36	128	16072	2.272	ug/l	99
96) 1,2,3-Trichlorobenzene	15.56	180	9348	2.614	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion:168 Resp: 328179

Ion Ratio Lower Upper

168 100

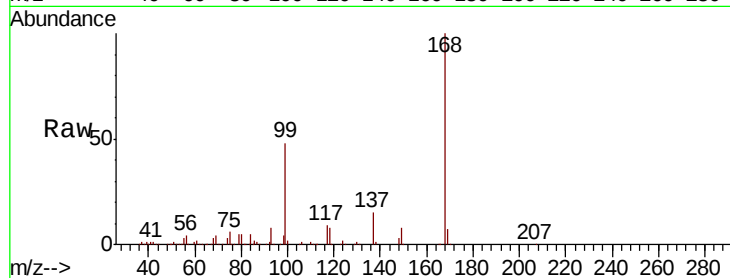
99 47.6 38.3 57.5

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

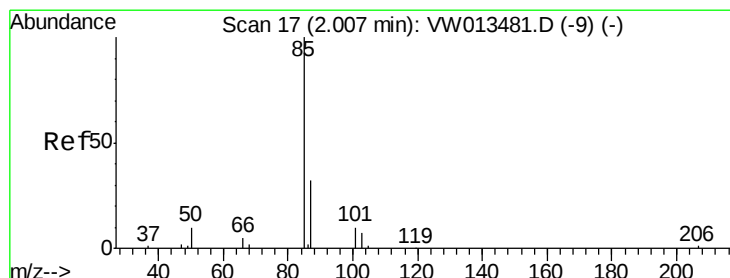
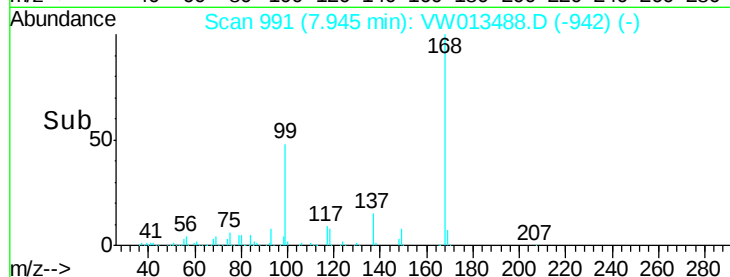
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 2.306 ug/l

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW013488.D

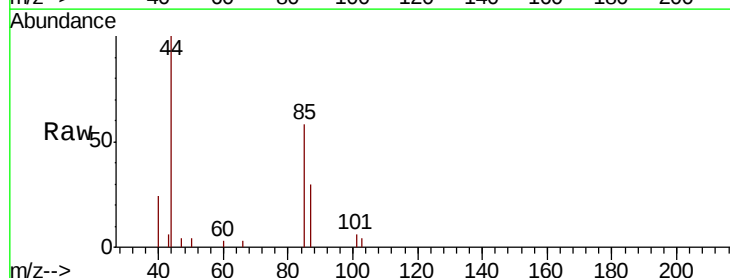
Acq: 08 Oct 2019 15:53

Tgt Ion: 85 Resp: 2507

Ion Ratio Lower Upper

85 100

87 52.6 15.8 47.3#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

1200

1000

800

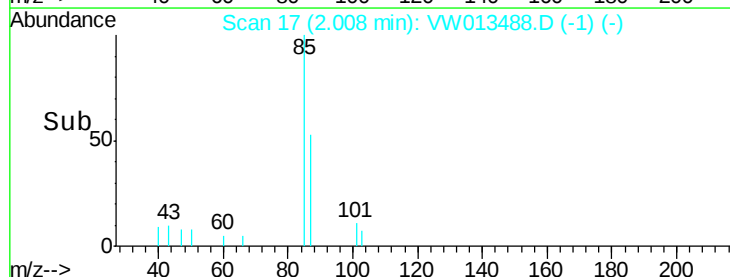
600

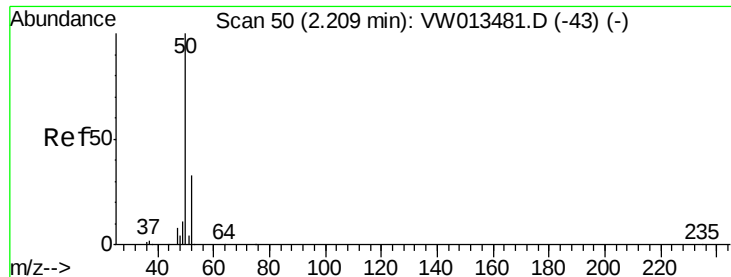
400

200

0

Time-->





#3

Chloromethane

Concen: 2.746 ug/l

RT: 2.21 min Scan# 50

Delta R.T. 0.00 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 50 Resp: 5247

Ion Ratio Lower Upper

50 100

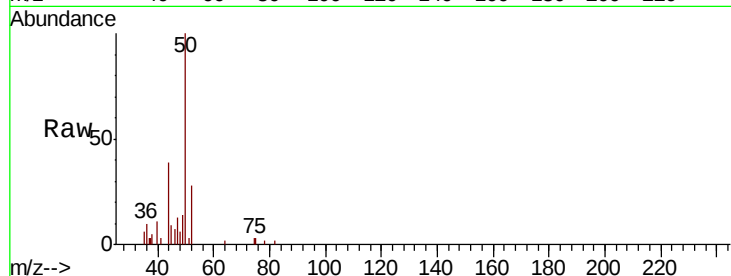
52 28.0 26.0 39.0

Manual Integrations

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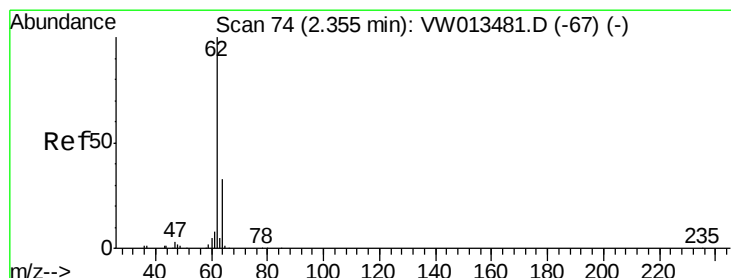
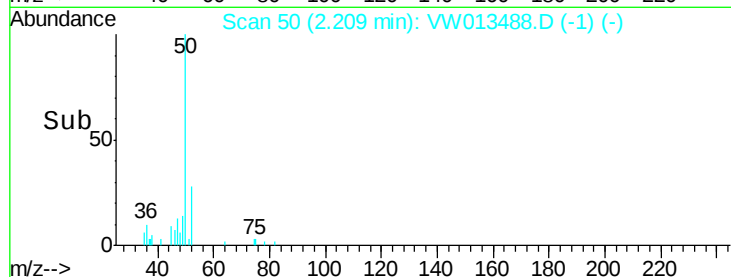
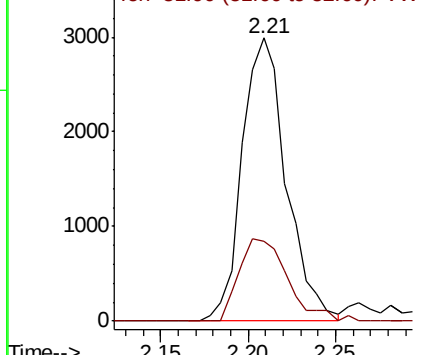
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Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW



#4

Vinyl Chloride

Concen: 2.605 ug/l

RT: 2.36 min Scan# 74

Delta R.T. 0.00 min

Lab File: VW013488.D

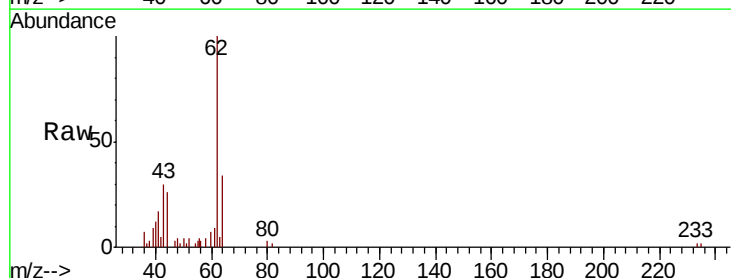
Acq: 08 Oct 2019 15:53

Tgt Ion: 62 Resp: 7341

Ion Ratio Lower Upper

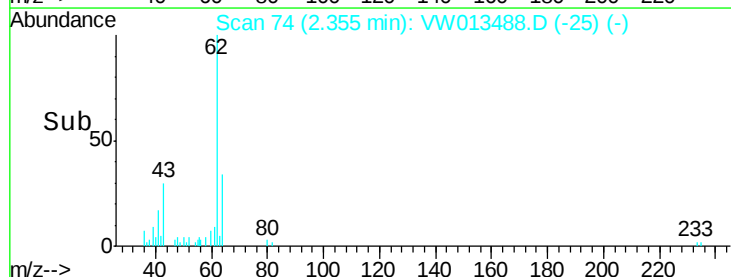
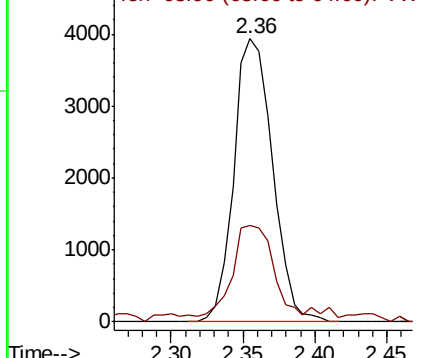
62 100

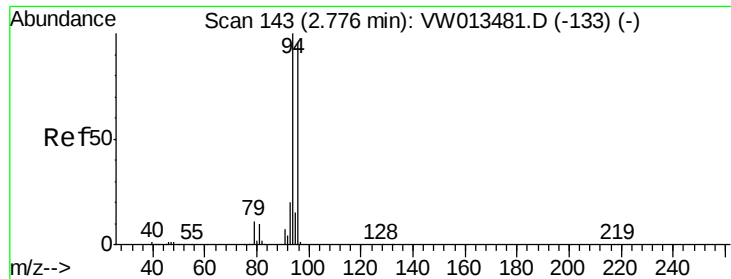
64 32.3 26.6 39.8



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW





#5

Bromomethane

Concen: 2.893 ug/l

RT: 2.77 min Scan# 142

Delta R.T. -0.01 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

Instrument :

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Tot Ion: 94 Resp: 4865

Ion Ratio Lower Upper

94 100

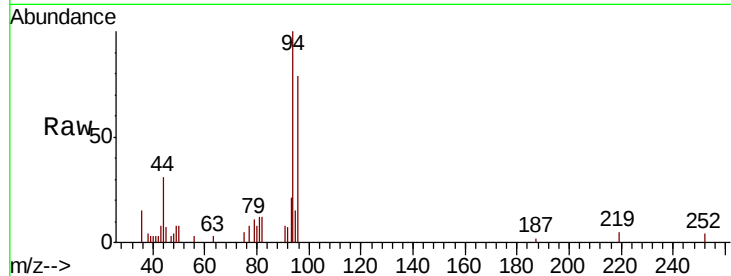
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Manual Integrations

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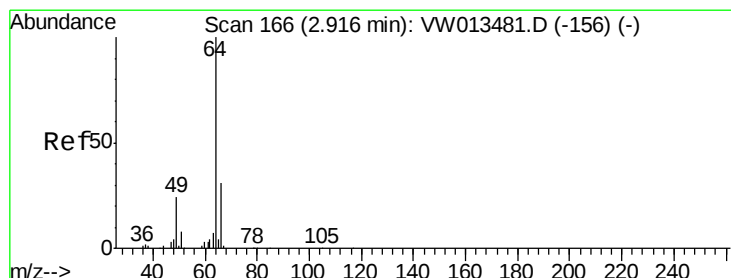
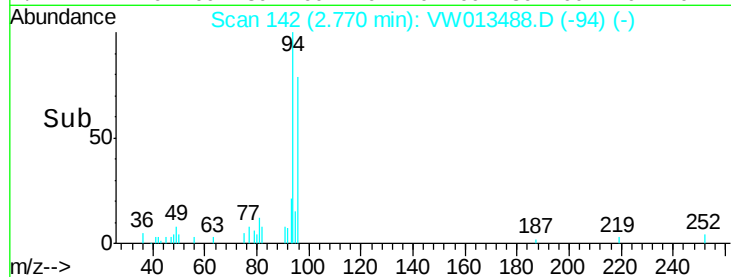
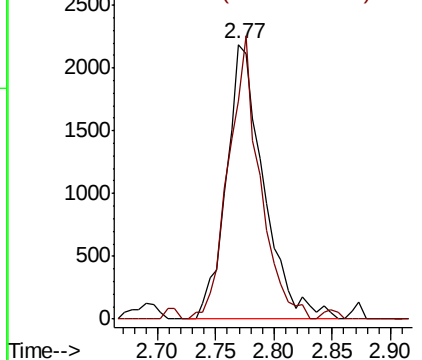
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Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW



#6

Chloroethane

Concen: 2.683 ug/l

RT: 2.91 min Scan# 165

Delta R.T. -0.01 min

Lab File: VW013488.D

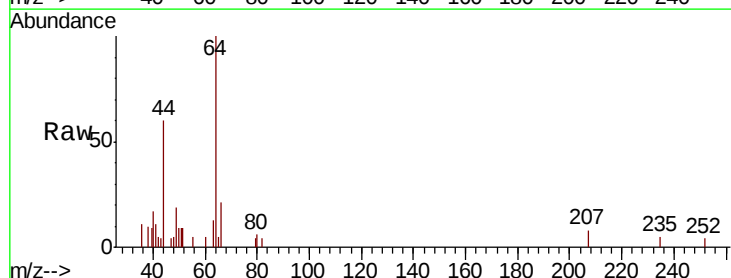
Acq: 08 Oct 2019 15:53

Tgt Ion: 64 Resp: 4247

Ion Ratio Lower Upper

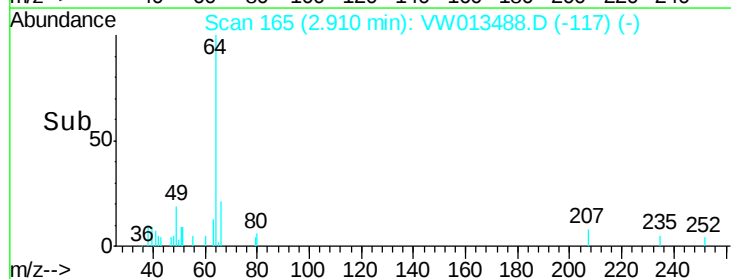
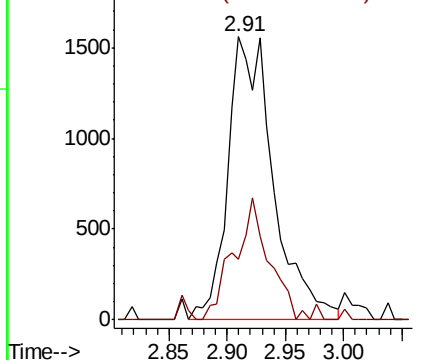
64 100

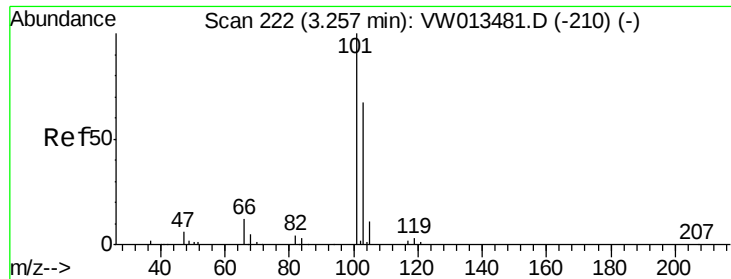
66 21.4 25.0 37.4#



Abundance Ion 63.90 (63.60 to 64.60): VW

Ion 65.90 (65.60 to 66.60): VW





#7

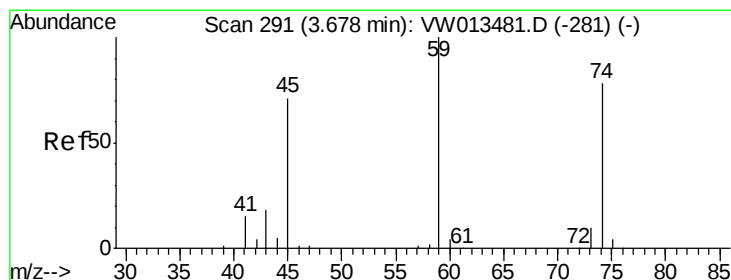
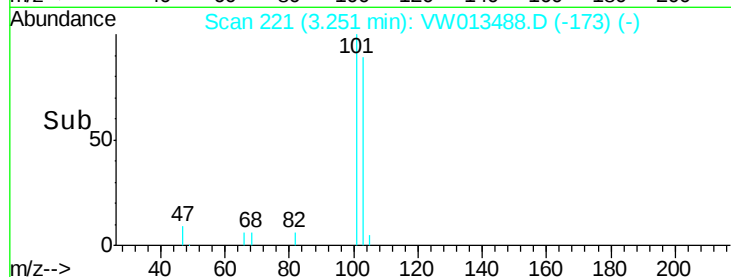
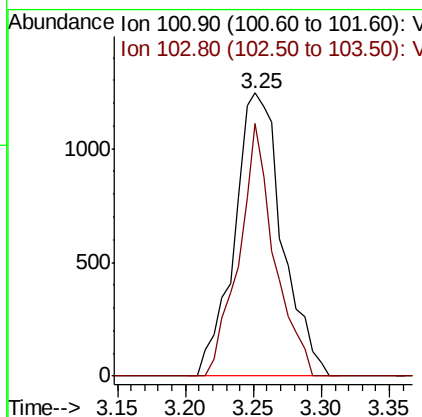
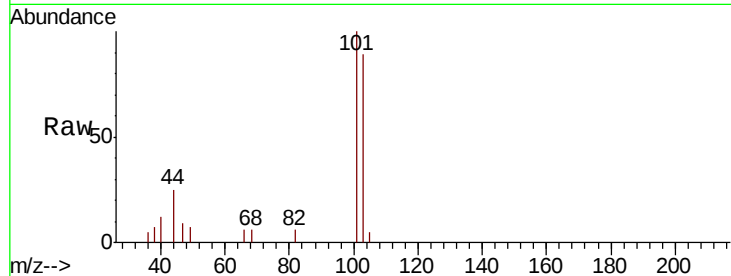
Trichlorofluoromethane
 Concen: 2.298 ug/l
 RT: 3.25 min Scan# 221
 Delta R.T. -0.01 min
 Lab File: VW013488.D
 Acq: 08 Oct 2019 15:53

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Tot Ion	Ratio	Lower	Upper
101	100		
103	89.3	53.7	80.5#

Manual Integrations
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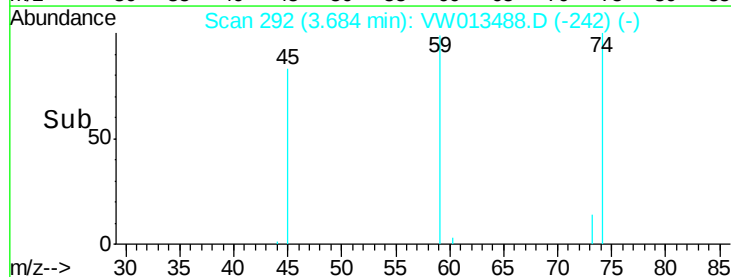
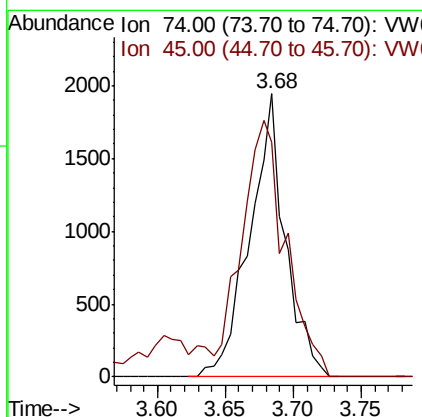
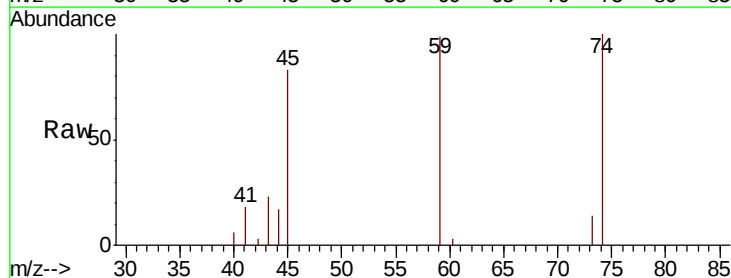
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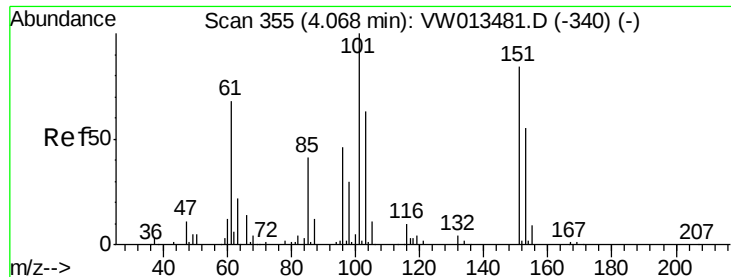


#8

Diethyl Ether
 Concen: 2.572 ug/l
 RT: 3.68 min Scan# 292
 Delta R.T. 0.01 min
 Lab File: VW013488.D
 Acq: 08 Oct 2019 15:53

Tgt Ion	Ratio	Lower	Upper
74	100		
45	112.0	50.0	150.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.615 ug/l

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

Instrument :

MSVOA_W

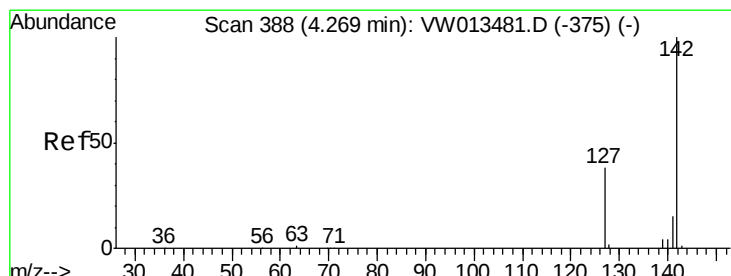
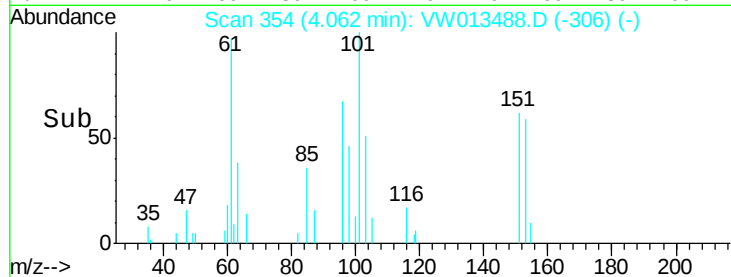
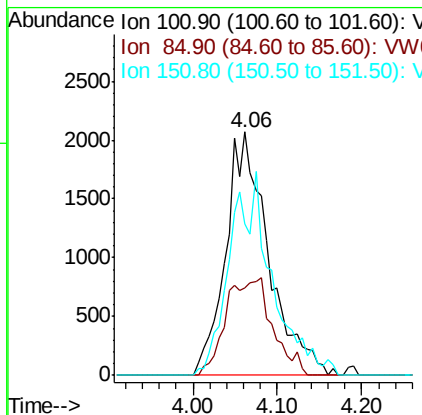
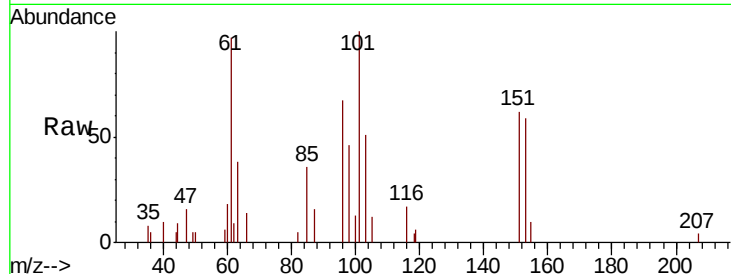
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion:	101	Resp:	7186
Ion Ratio	Lower	Upper	
101	100		
85	16.7	31.6	47.4#
151	41.9	67.5	101.3#

Manual Integrations
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#10

Methyl Iodide

Concen: 2.544 ug/l

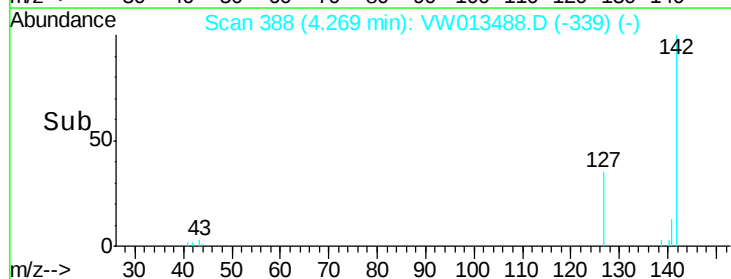
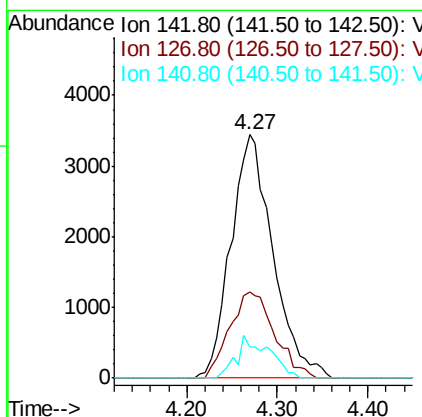
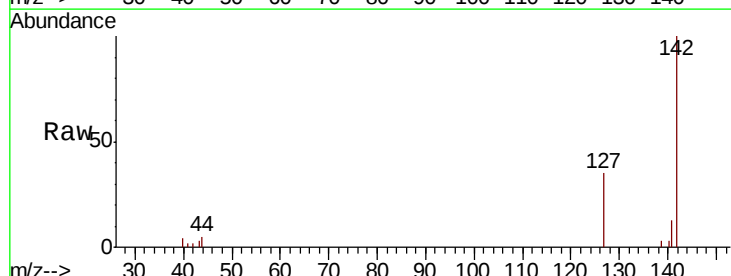
RT: 4.27 min Scan# 388

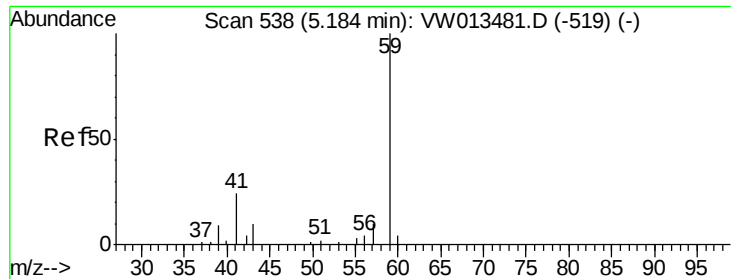
Delta R.T. 0.00 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

Tgt Ion:	142	Resp:	11070
Ion Ratio	Lower	Upper	
142	100		
127	37.6	29.6	44.4
141	13.5	12.1	18.1





#11

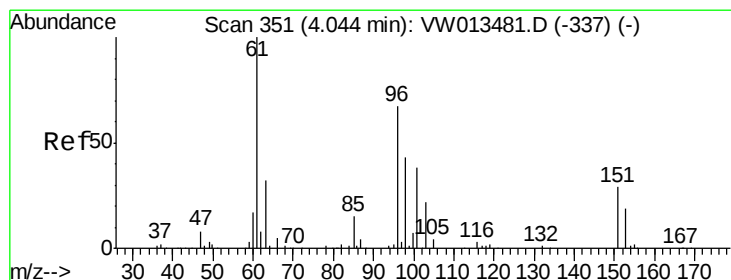
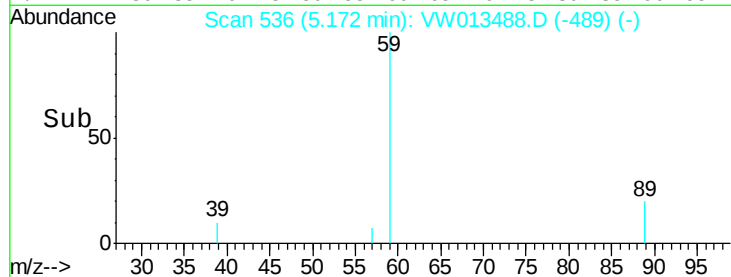
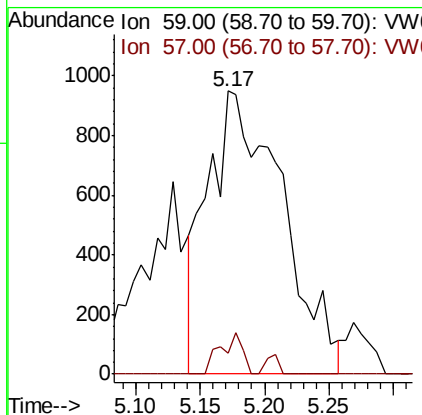
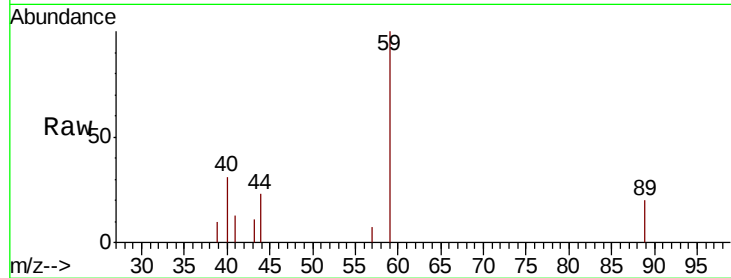
Tert butyl alcohol
 Concen: 17.759 ug/l
 RT: 5.17 min Scan# 536
 Delta R.T. -0.01 min
 Lab File: VW013488.D
 Acq: 08 Oct 2019 15:53

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
59	100		
57	4.5	8.2	12.4#

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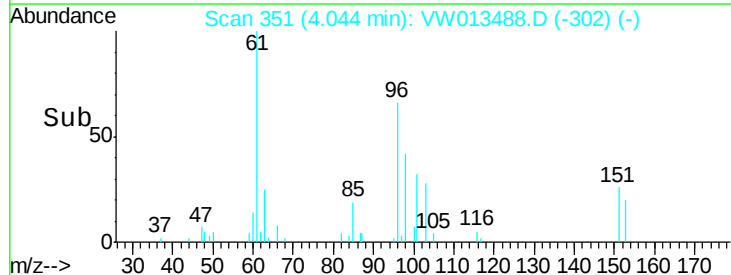
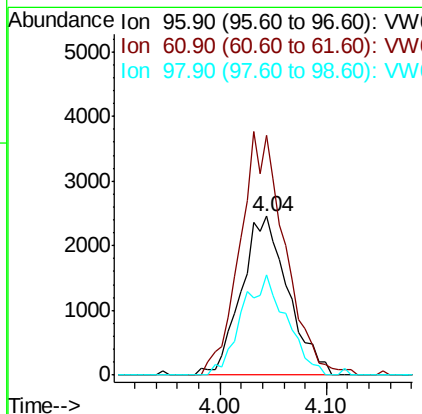
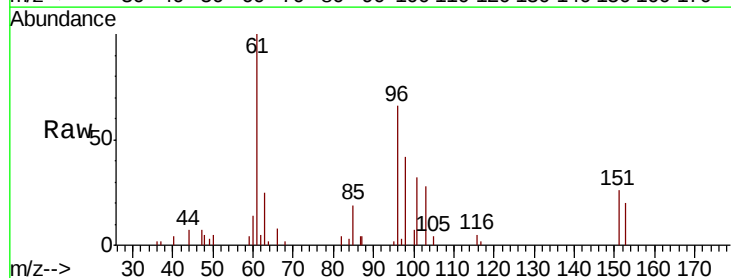
MMDadoda
 10/9/2019 4:09:55 PM

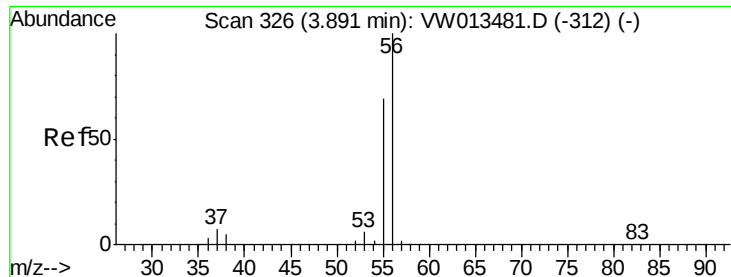


#12

1,1-Dichloroethene
 Concen: 2.642 ug/l
 RT: 4.04 min Scan# 351
 Delta R.T. 0.00 min
 Lab File: VW013488.D
 Acq: 08 Oct 2019 15:53

Tgt Ion	Ratio	Lower	Upper
96	100		
61	151.5	119.4	179.0
98	62.9	51.1	76.7





#13

Acrolein

Concen: 4.098 ug/l

RT: 3.89 min Scan# 326

Delta R.T. 0.00 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 56 Resp: 847

Ion Ratio Lower Upper

56 100

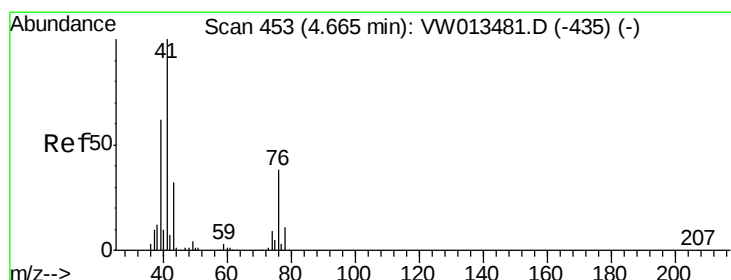
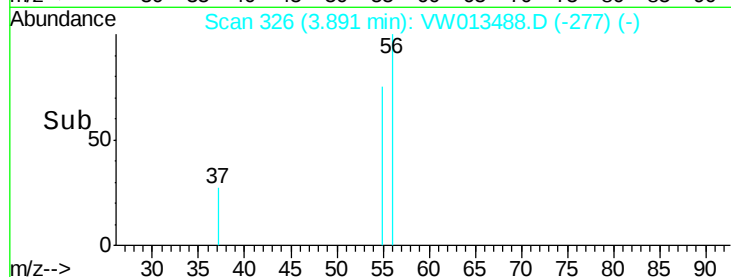
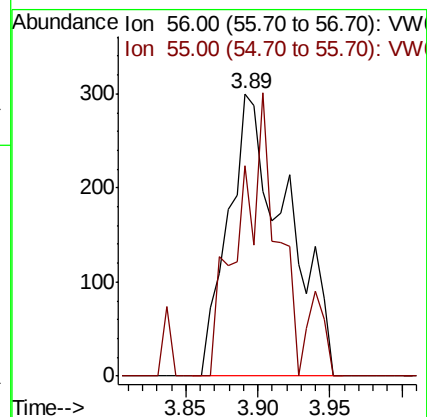
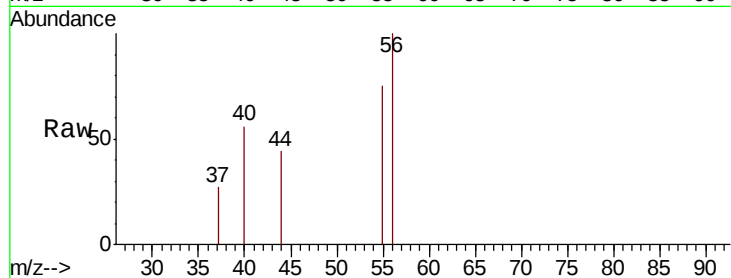
55 62.8 55.9 83.9

Manual Integrations

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#14

Allyl chloride

Concen: 2.413 ug/l

RT: 4.67 min Scan# 453

Delta R.T. 0.00 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

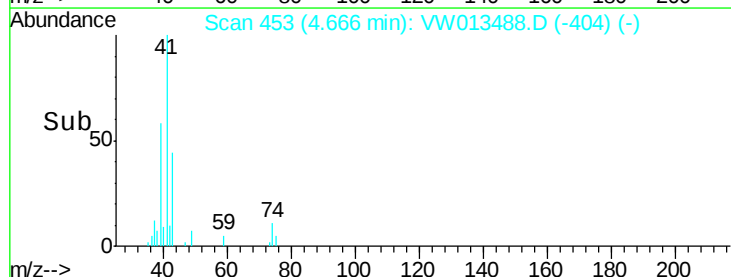
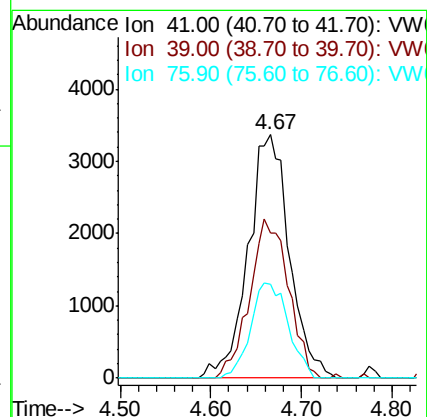
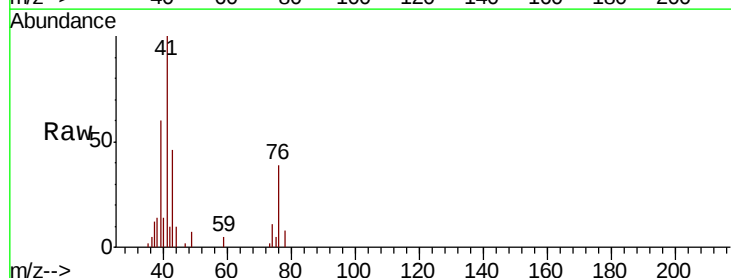
Tgt Ion: 41 Resp: 10562

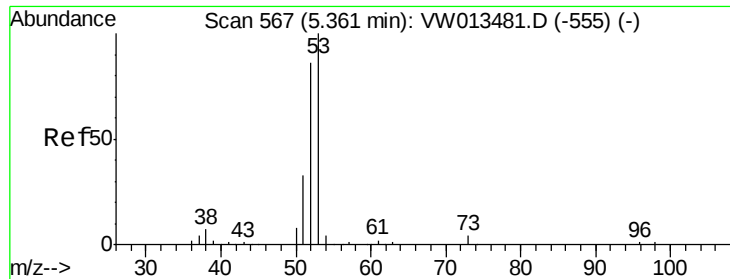
Ion Ratio Lower Upper

41 100

39 61.8 50.1 75.1

76 35.7 29.0 43.4





#15

Acrylonitrile

Concen: 12.497 ug/l

RT: 5.37 min Scan# 569

Delta R.T. 0.01 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

Instrument :

MSVOA_W

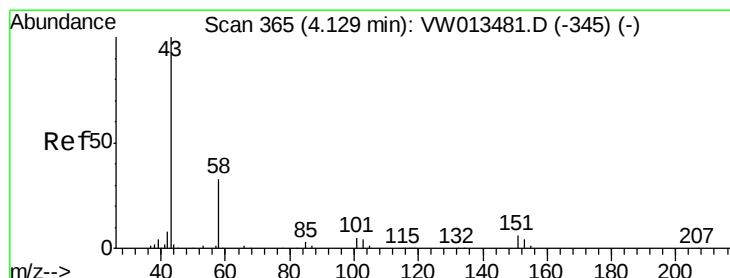
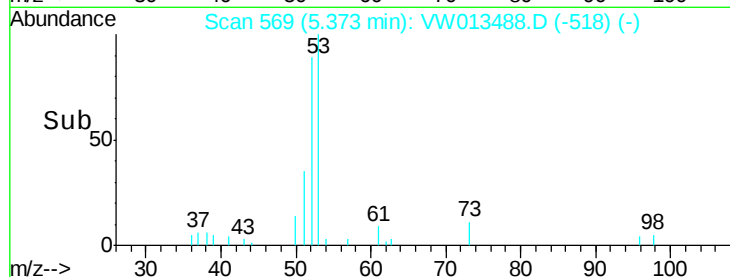
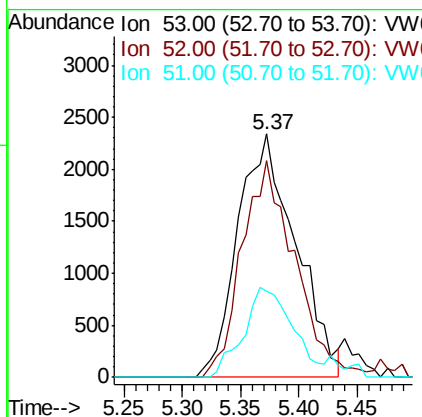
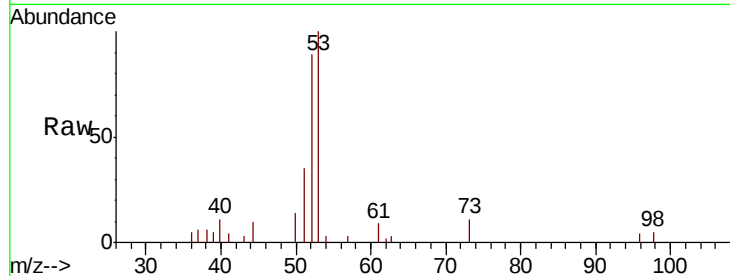
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion:	53	Resp:	8062
Ion	Ratio	Lower	Upper
53	100		
52	81.5	65.8	98.8
51	31.6	28.6	42.8

Manual Integrations
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#16

Acetone

Concen: 17.789 ug/l

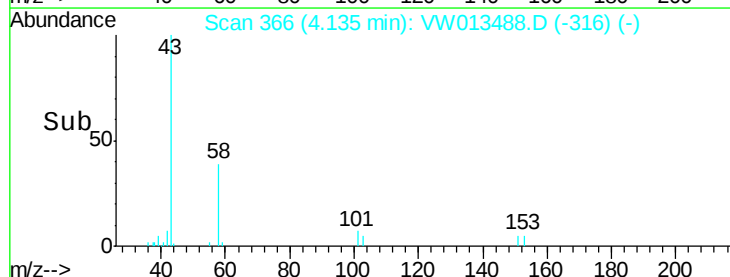
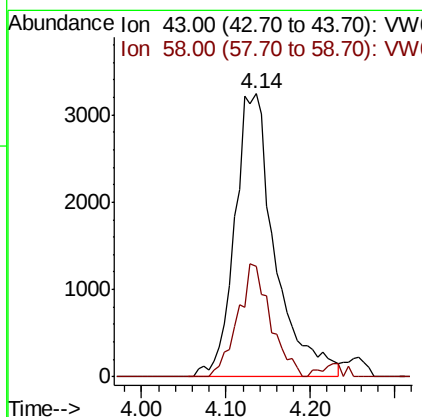
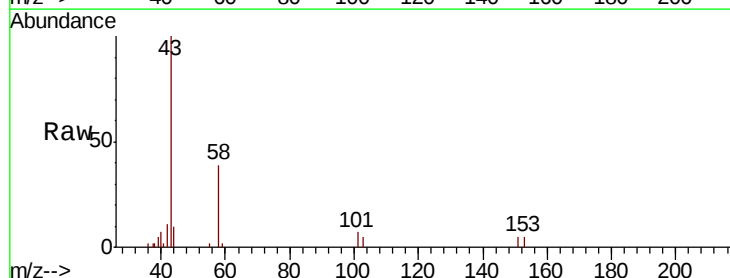
RT: 4.14 min Scan# 366

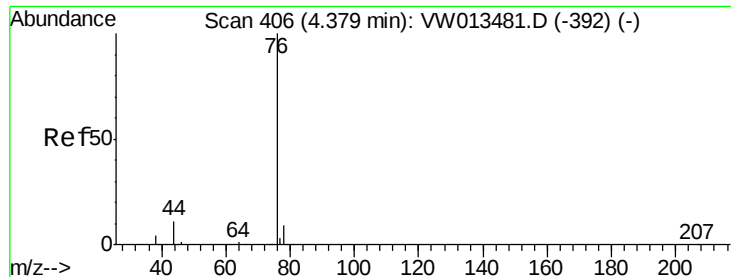
Delta R.T. 0.01 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

Tgt Ion:	43	Resp:	10496
Ion	Ratio	Lower	Upper
43	100		
58	39.3	26.1	39.1#





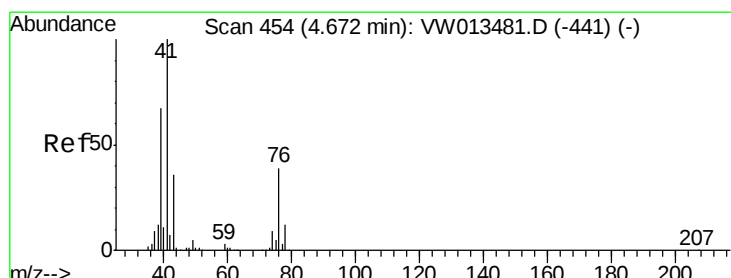
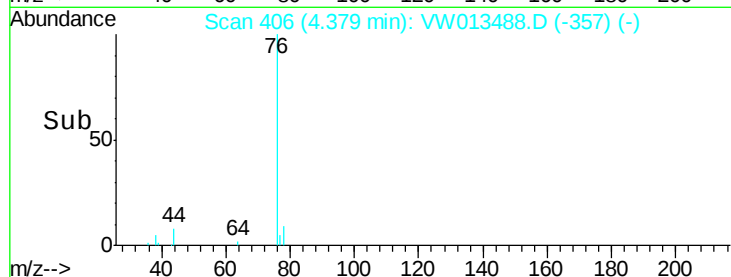
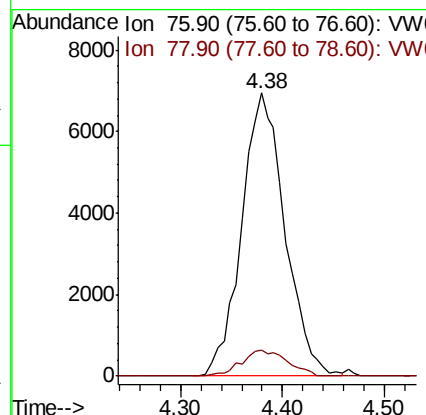
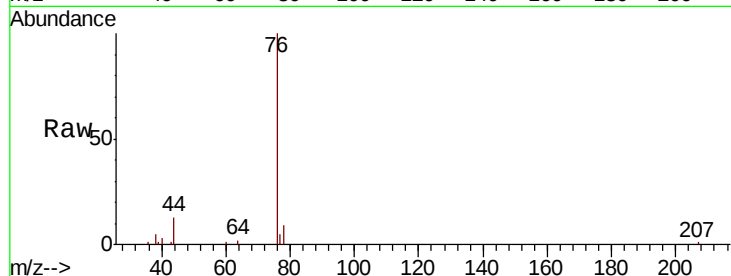
#17
Carbon Disulfide
Concen: 2.554 ug/l
RT: 4.38 min Scan# 406
Delta R.T. 0.00 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.1	10.7

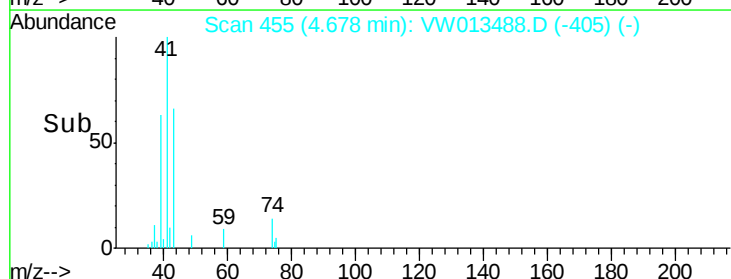
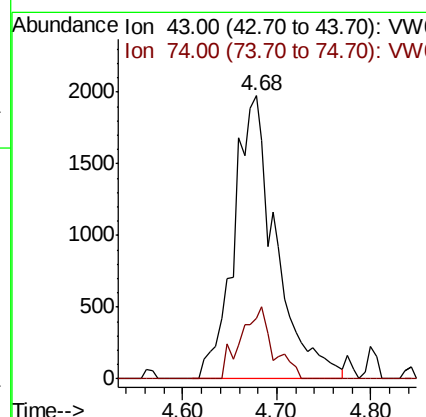
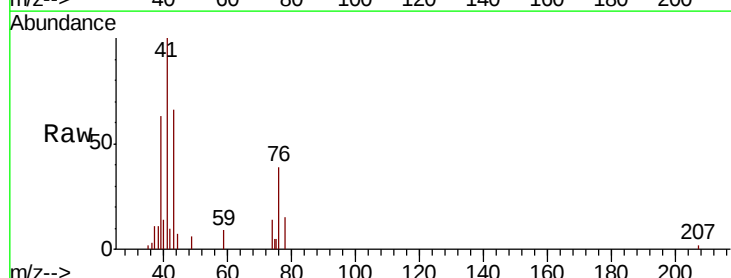
Manual Integrations
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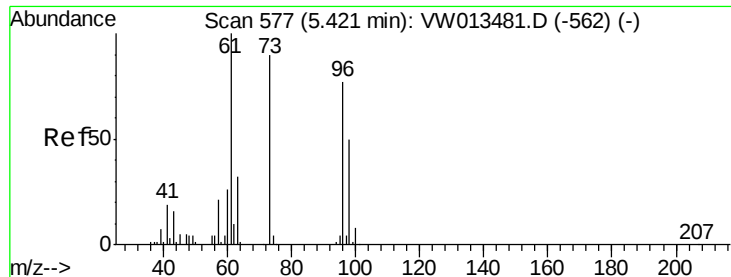
MMDadoda
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#18
Methyl Acetate
Concen: 3.617 ug/l
RT: 4.68 min Scan# 455
Delta R.T. 0.01 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Tgt Ion	Ratio	Lower	Upper
43	100		
74	19.7	19.6	29.4





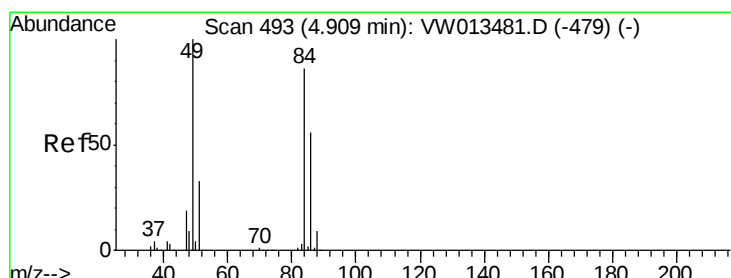
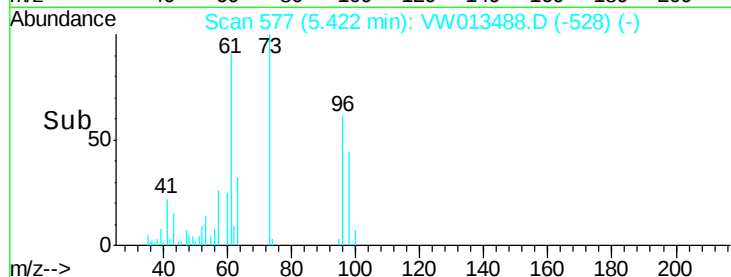
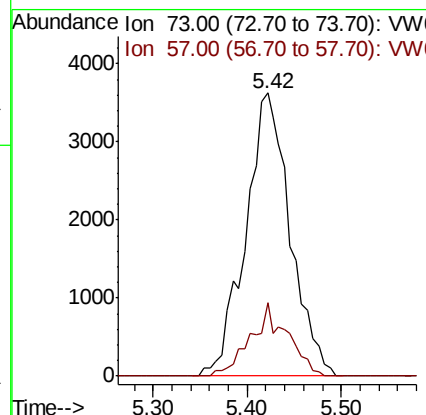
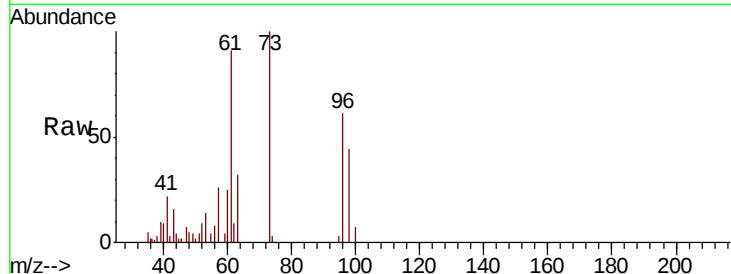
#19
Methvl tert-butvl Ether
Concen: 2.775 ug/l
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 73 Resp: 11954
Ion Ratio Lower Upper
73 100
57 25.9 18.6 27.8

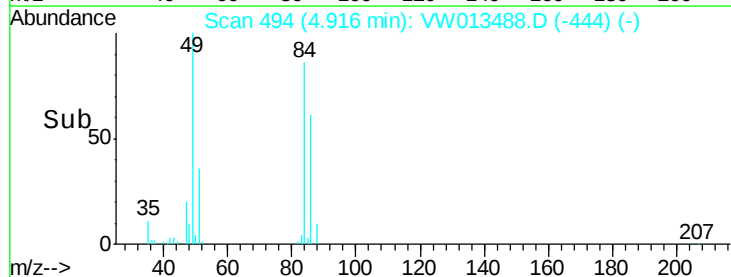
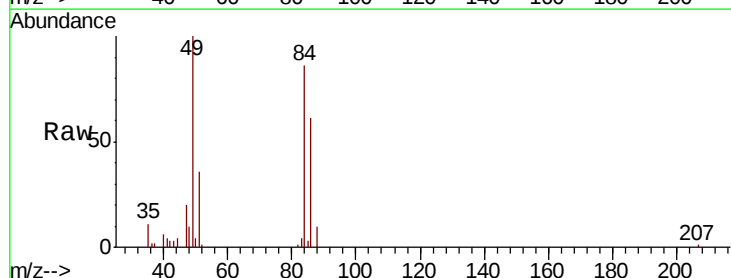
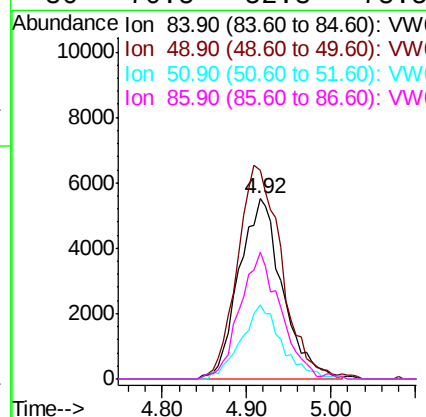
Manual Integrations
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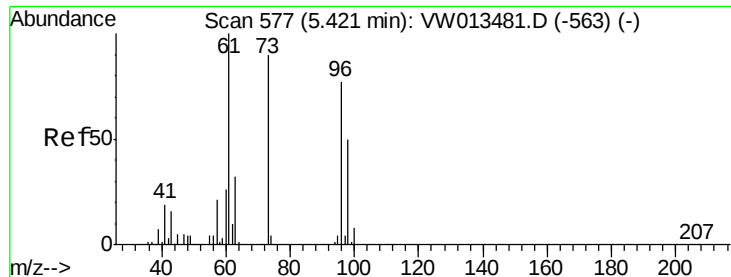
MMDadoda
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#20
Methylene Chloride
Concen: 5.949 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Tgt Ion: 84 Resp: 19323
Ion Ratio Lower Upper
84 100
49 115.7 93.4 140.0
51 41.5 30.6 46.0
86 70.5 52.3 78.5





#21

trans-1,2-Dichloroethene

Concen: 2.485 ug/l

RT: 5.42 min Scan# 576

Delta R.T. -0.01 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

Instrument :

MSVOA_W

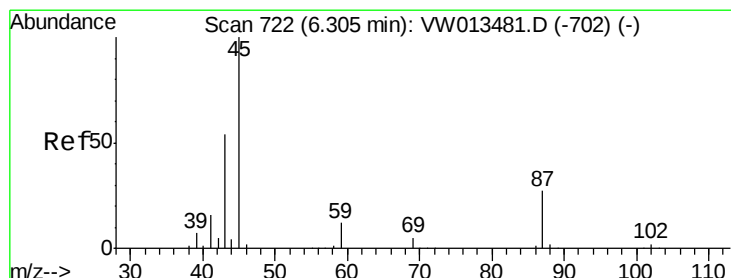
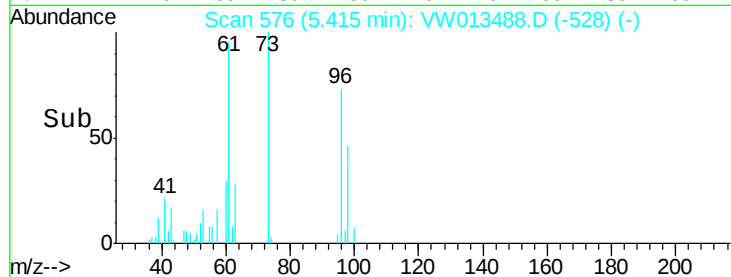
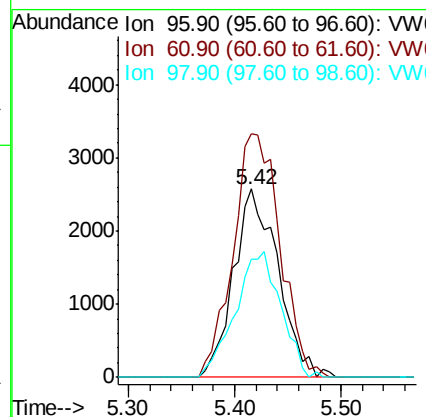
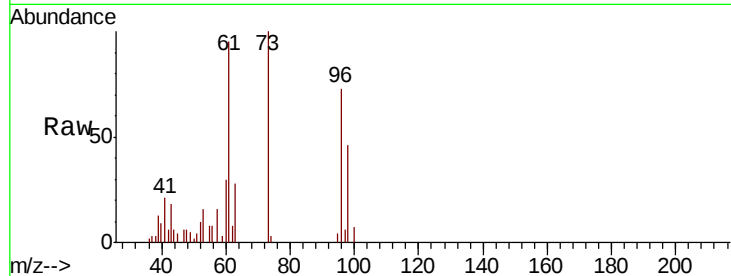
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion:	96	Resp:	7521
Ion	Ratio	Lower	Upper
96	100		
61	129.3	104.3	156.5
98	62.5	51.8	77.8

Manual Integrations
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#22

Diisopropyl ether

Concen: 2.586 ug/l

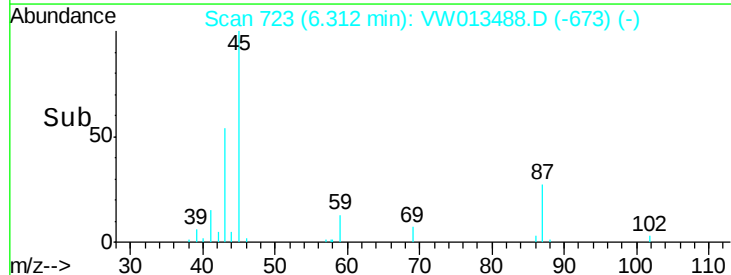
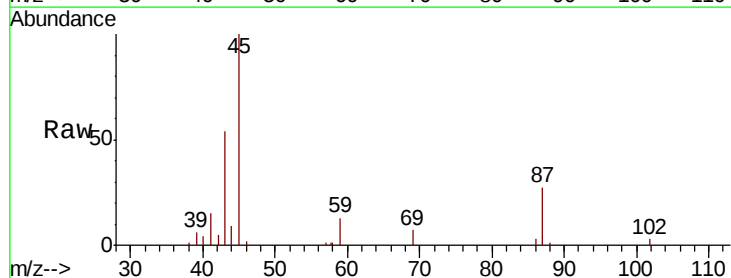
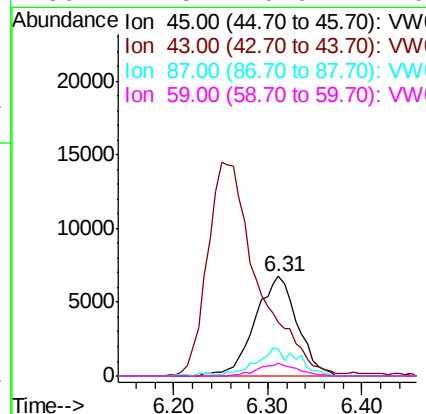
RT: 6.31 min Scan# 723

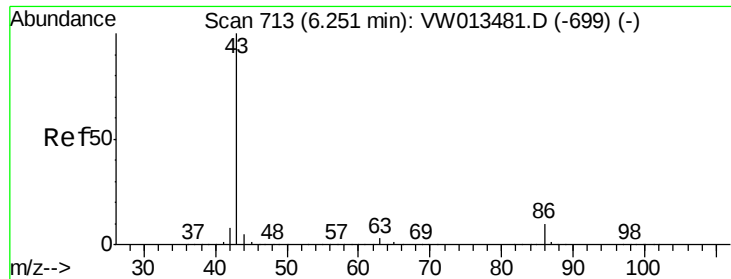
Delta R.T. 0.01 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

Tgt Ion:	45	Resp:	21212
Ion	Ratio	Lower	Upper
45	100		
43	50.6	43.4	65.0
87	26.9	22.1	33.1
59	12.5	9.9	14.9





#23

Vinyl Acetate

Concen: 10.962 ug/l

RT: 6.25 min Scan# 713

Delta R.T. 0.00 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 43 Resp: 53973

Ion Ratio Lower Upper

43 100

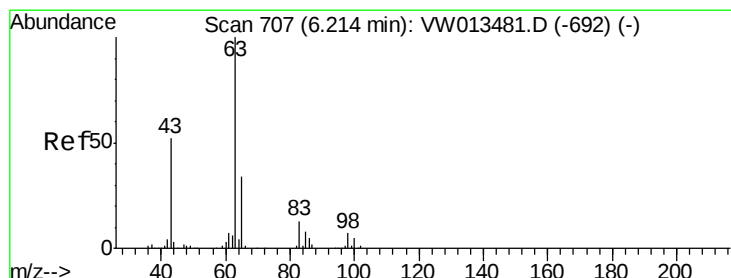
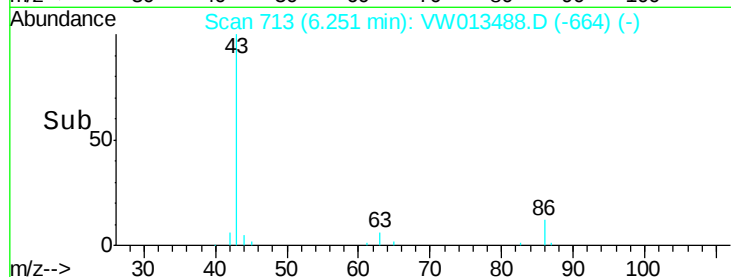
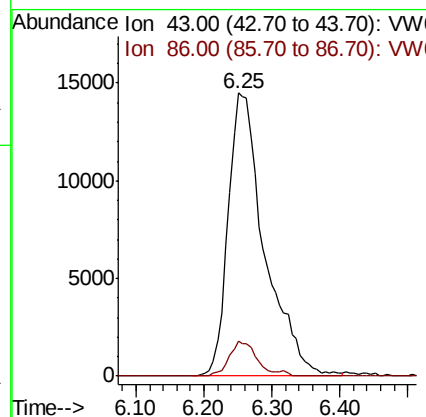
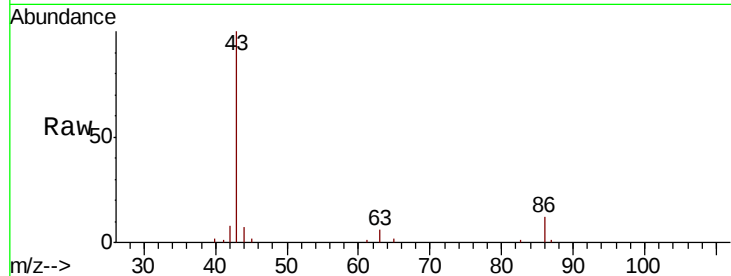
86 12.5 8.3 12.5#

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 2.492 ug/l

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

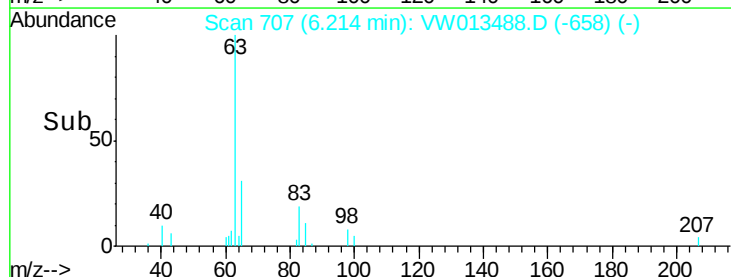
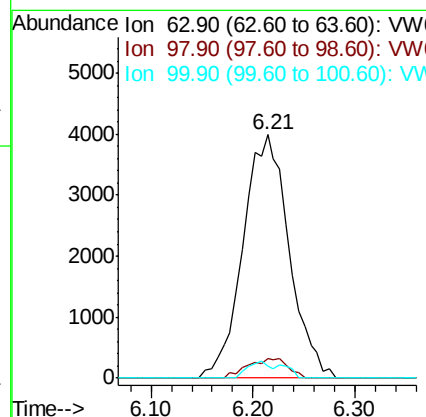
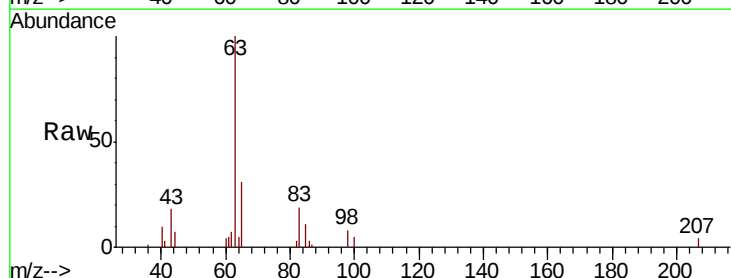
Tgt Ion: 63 Resp: 12490

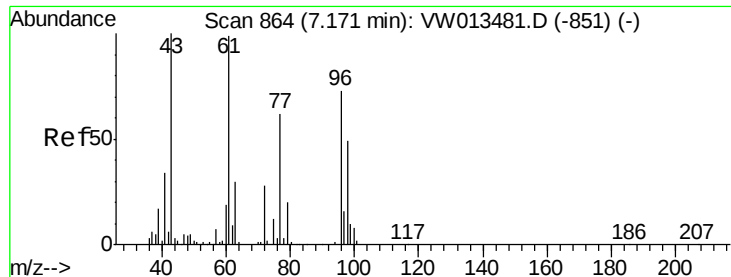
Ion Ratio Lower Upper

63 100

98 8.1 3.5 10.6

100 5.1 2.3 6.8





#25

2-Butanone

Concen: 15.558 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 43 Resp: 13529

Ion Ratio Lower Upper

43 100

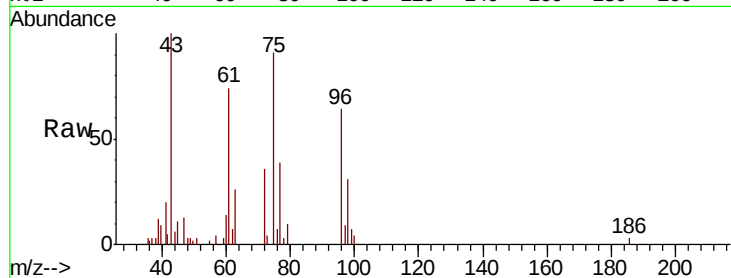
72 35.8 22.1 33.1#

Manual Integrations

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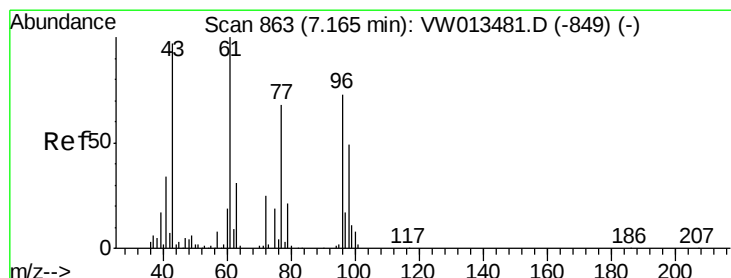
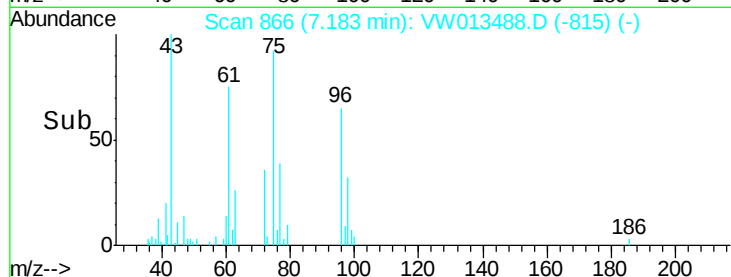
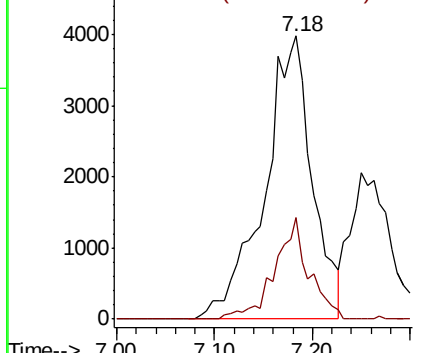
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#26

2,2-Dichloropropane

Concen: 3.617 ug/l

RT: 7.15 min Scan# 861

Delta R.T. -0.01 min

Lab File: VW013488.D

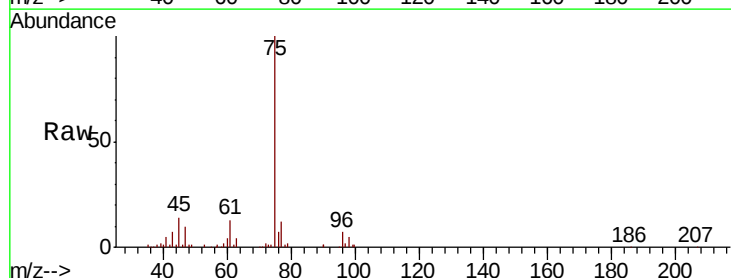
Acq: 08 Oct 2019 15:53

Tgt Ion: 77 Resp: 11689

Ion Ratio Lower Upper

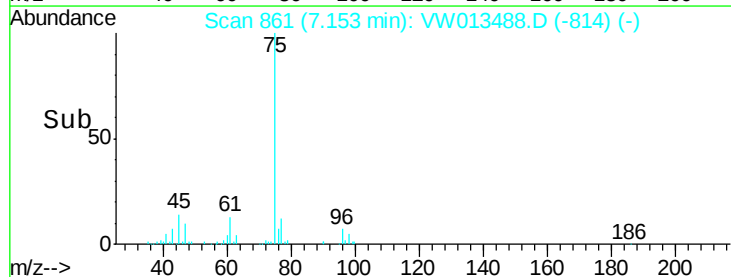
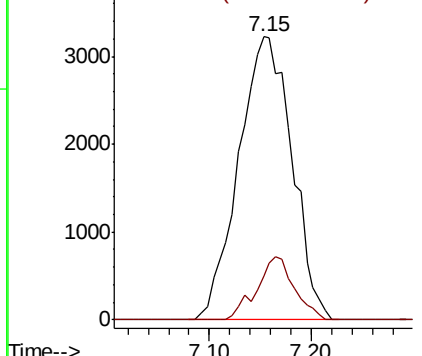
77 100

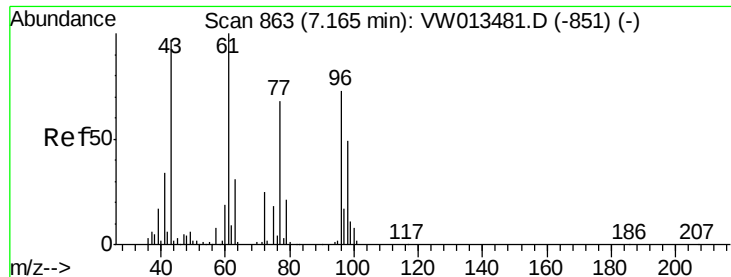
97 15.8 12.6 37.6



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW





#27

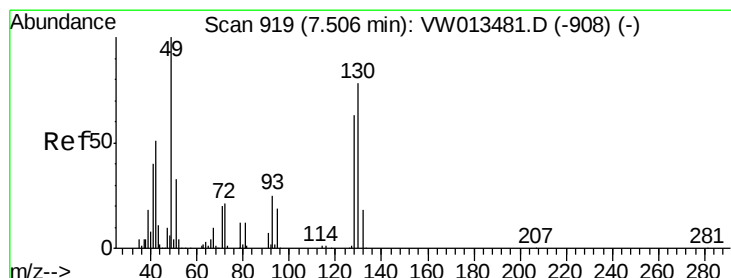
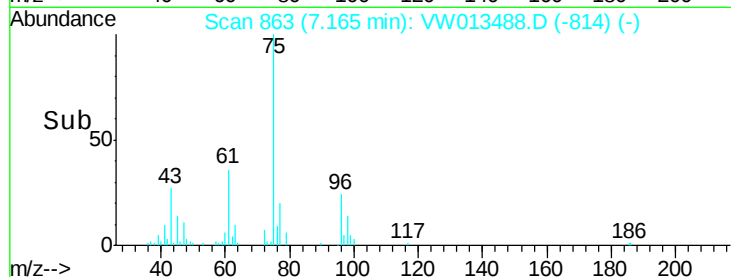
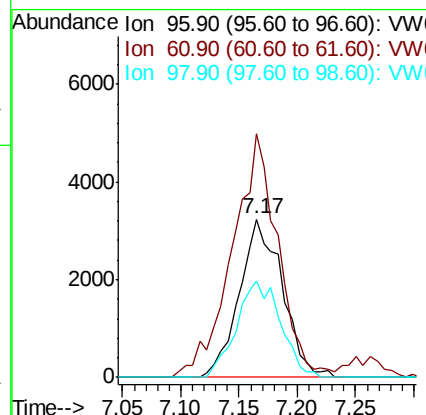
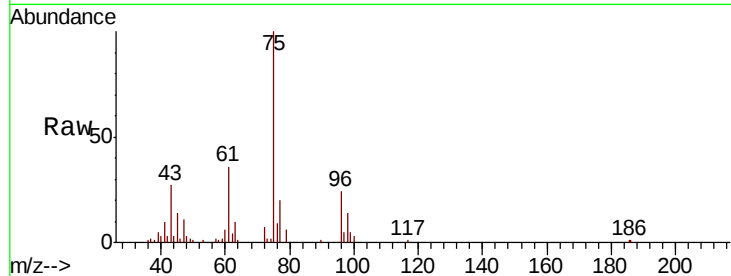
cis-1,2-Dichloroethene
Concen: 2.588 ug/l
RT: 7.17 min Scan# 863
Delta R.T. 0.00 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	164.1	0.0	274.4
98	62.4	0.0	130.2

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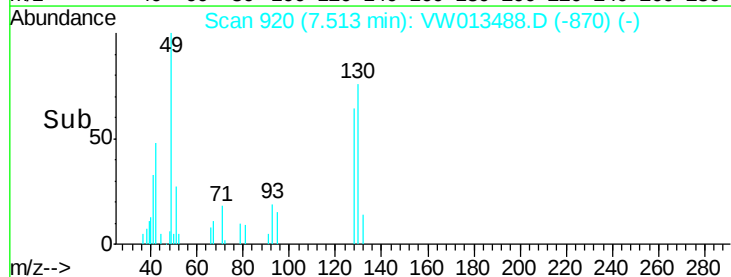
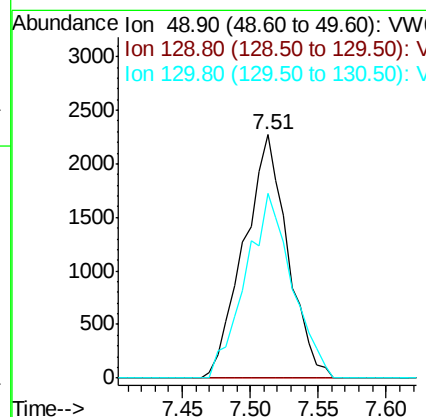
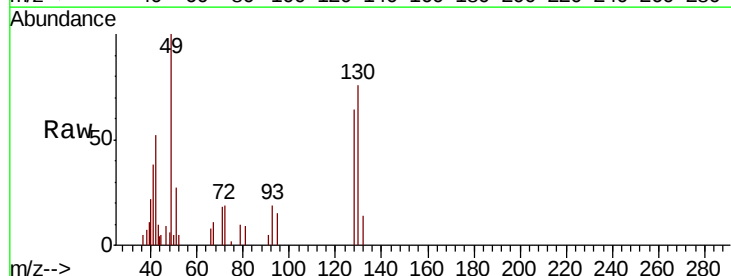
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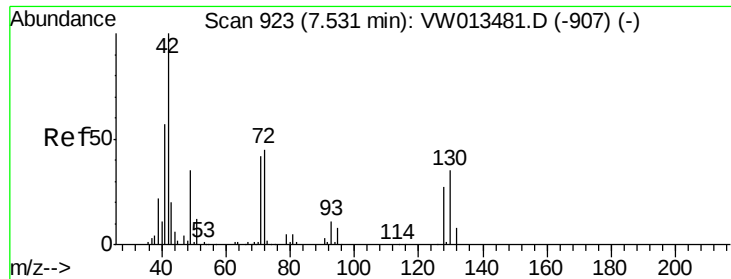


#28

Bromochloromethane
Concen: 2.864 ug/l
RT: 7.51 min Scan# 920
Delta R.T. 0.01 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	1.6
130	80.6	0.0	0.0#





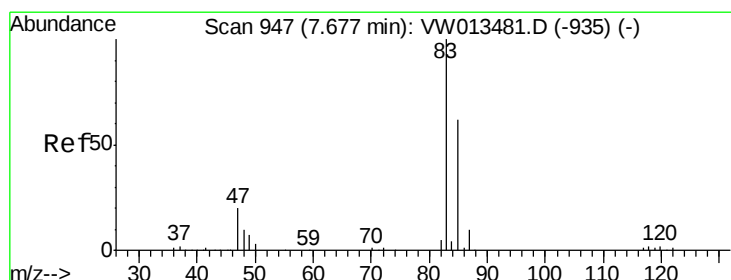
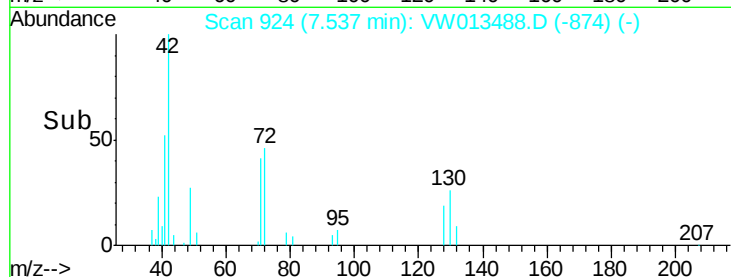
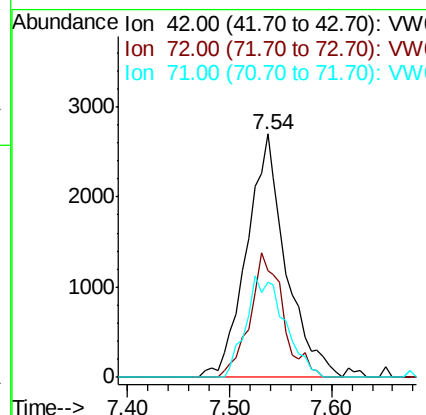
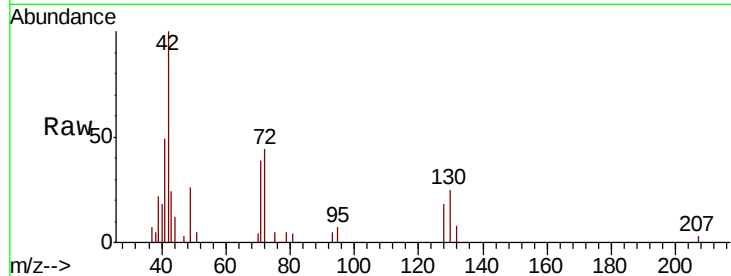
#29
Tetrahydrofuran
Concen: 13.576 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.0	34.8	52.2
71	40.8	33.6	50.4

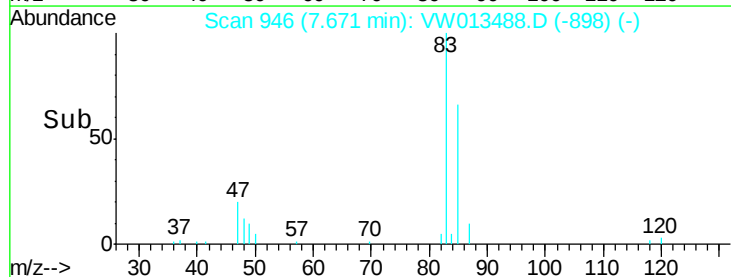
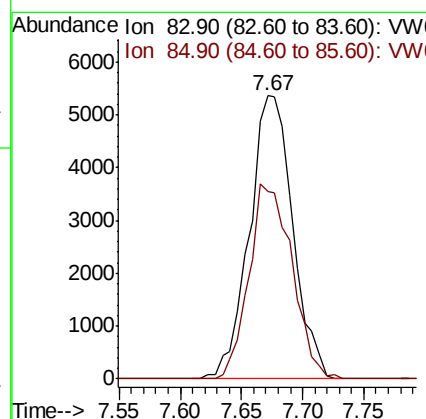
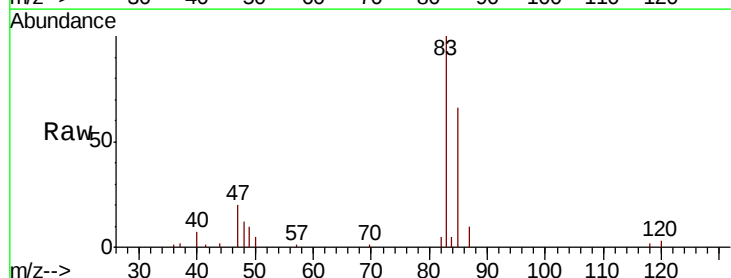
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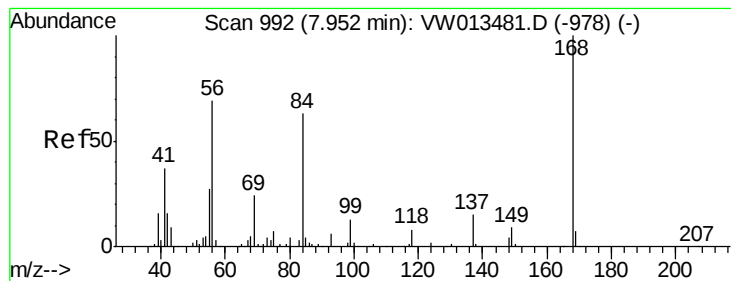
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#30
Chloroform
Concen: 2.729 ug/l
RT: 7.67 min Scan# 946
Delta R.T. -0.01 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.4	49.4	74.2





#31

Cvclohexane

Concen: 3.355 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 56 Resp: 17802

Ion Ratio Lower Upper

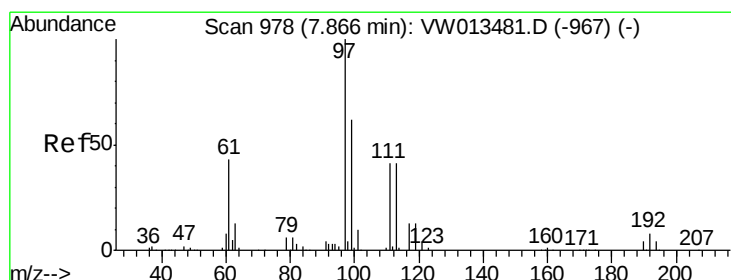
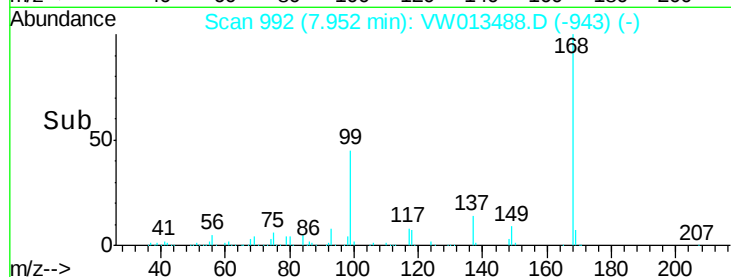
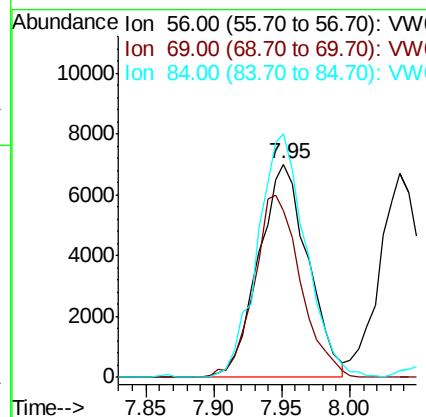
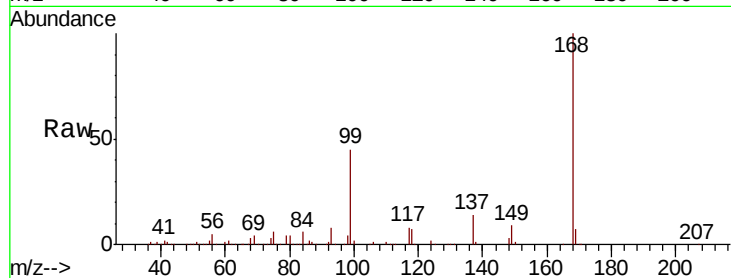
56 100

69 78.1 28.0 42.0#

84 114.4 71.8 107.6#

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#32

1,1,1-Trichloroethane

Concen: 2.539 ug/l

RT: 7.87 min Scan# 979

Delta R.T. 0.01 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

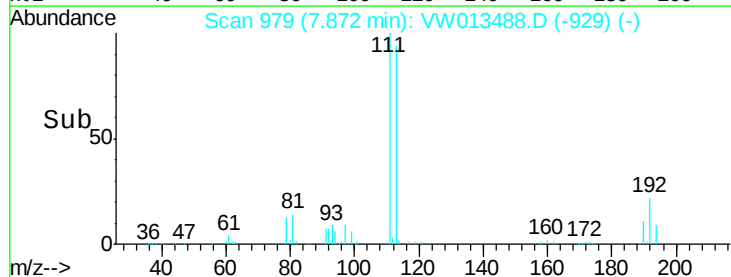
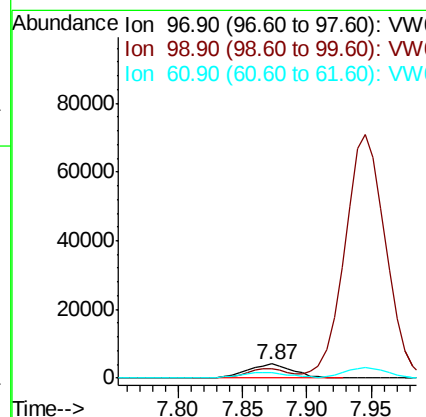
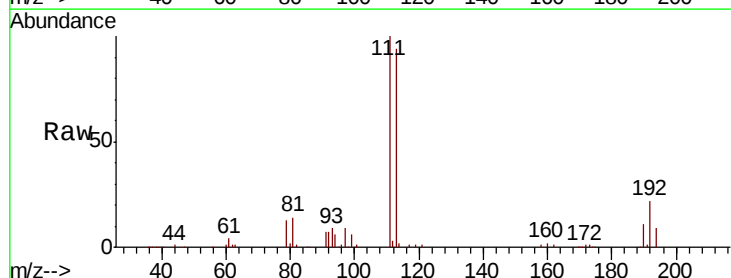
Tgt Ion: 97 Resp: 10008

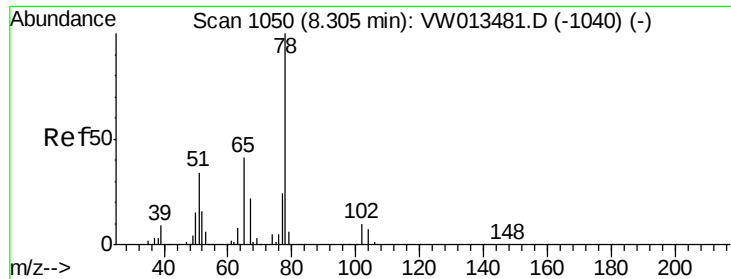
Ion Ratio Lower Upper

97 100

99 60.9 52.3 78.5

61 44.2 33.7 50.5





#33

1,2-Dichloroethane-d4

Concen: 52.368 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 65 Resp: 132779

Ion Ratio Lower Upper

65 100

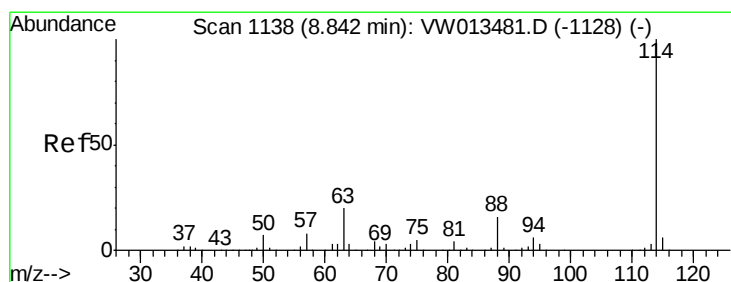
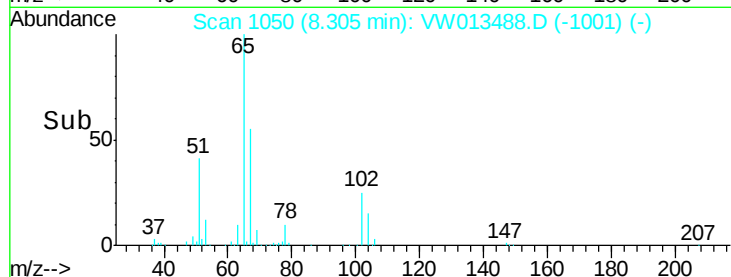
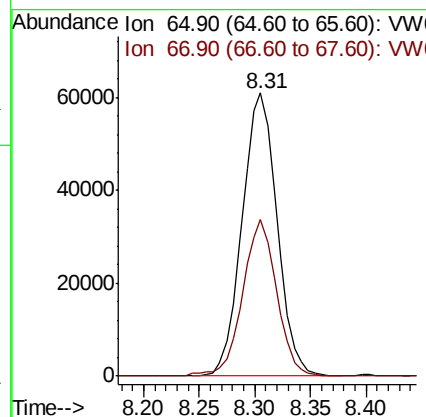
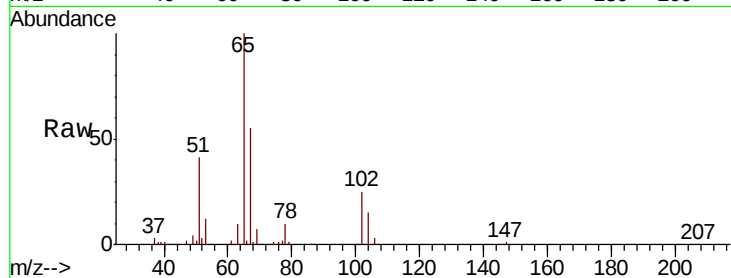
67 53.8 0.0 109.4

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

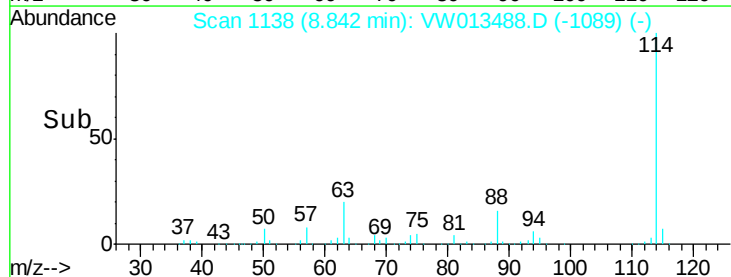
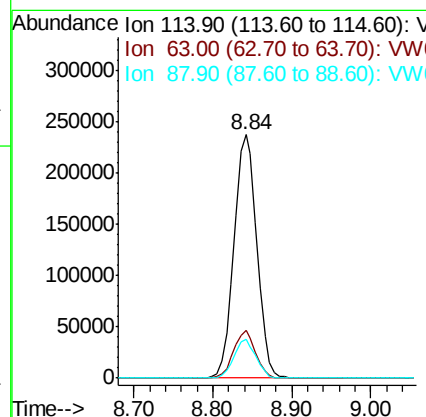
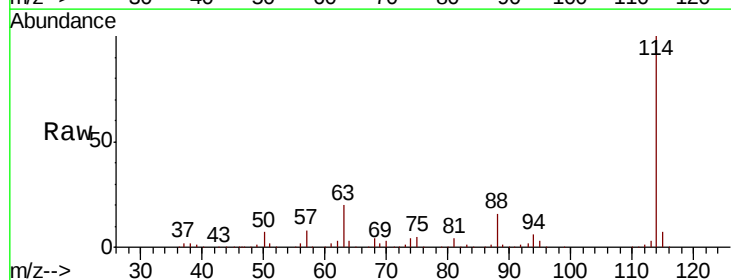
Tgt Ion: 114 Resp: 474824

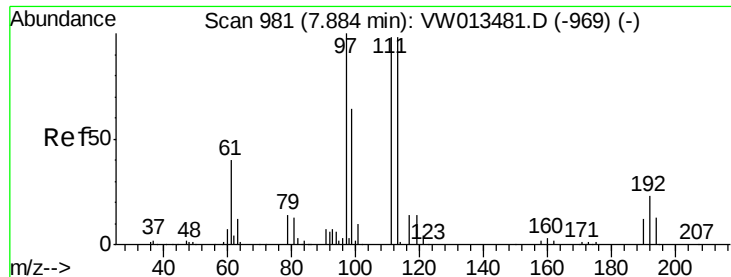
Ion Ratio Lower Upper

114 100

63 19.5 0.0 40.4

88 15.8 0.0 31.4





#35

Dibromofluoromethane

Concen: 50.146 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

Instrument :

MSVOA_W

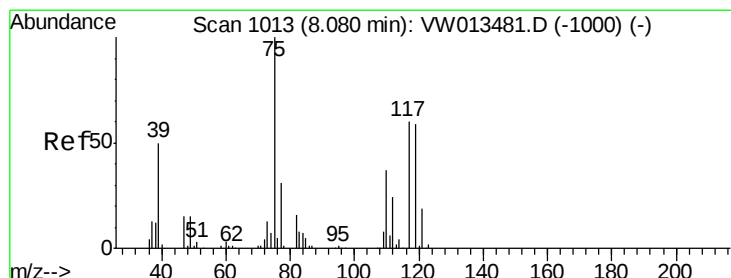
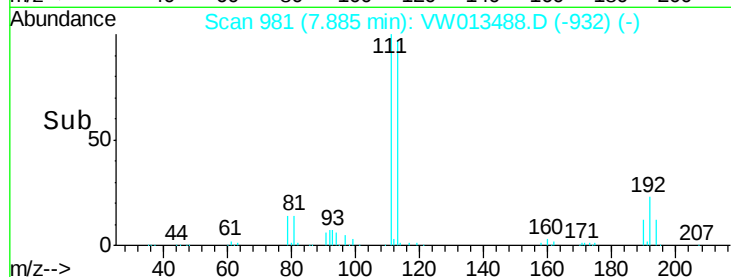
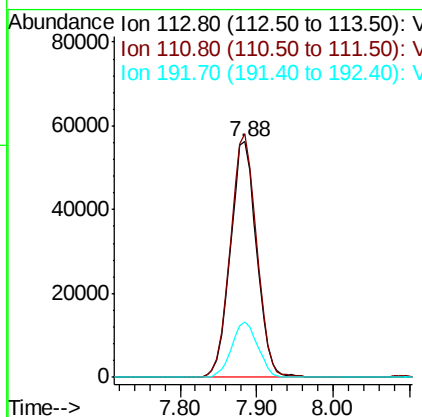
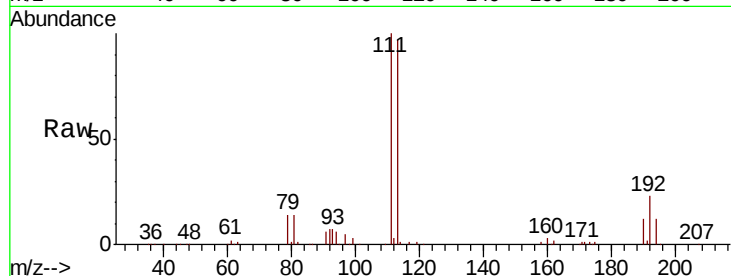
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion:	113	Resp:	132986
Ion Ratio	Lower	Upper	
113	100		
111	103.6	82.3	123.5
192	23.7	19.3	28.9

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#36

1,1-Dichloropropene

Concen: 2.575 ug/l

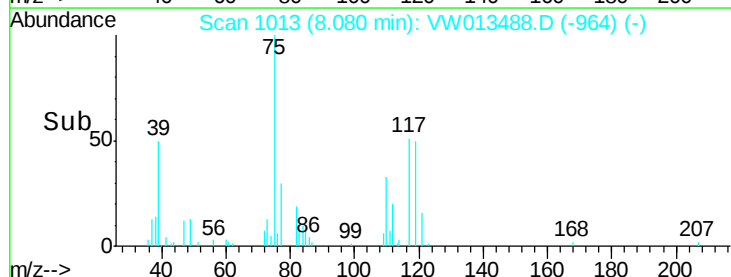
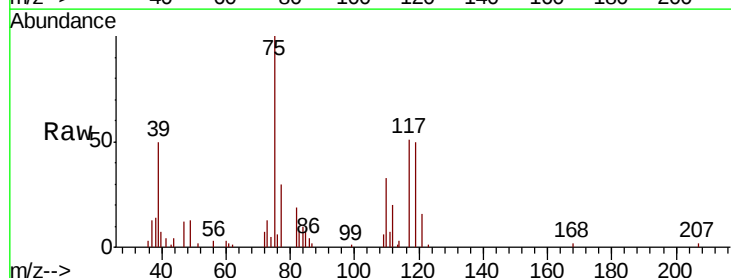
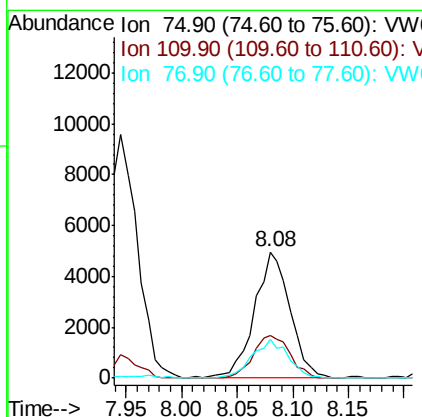
RT: 8.08 min Scan# 1013

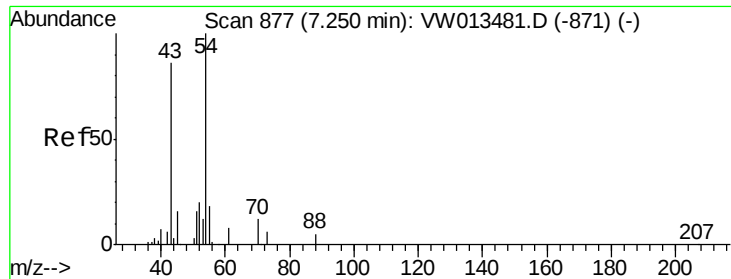
Delta R.T. 0.00 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

Tgt Ion:	75	Resp:	11061
Ion Ratio	Lower	Upper	
75	100		
110	34.7	18.4	55.2
77	31.0	25.0	37.4





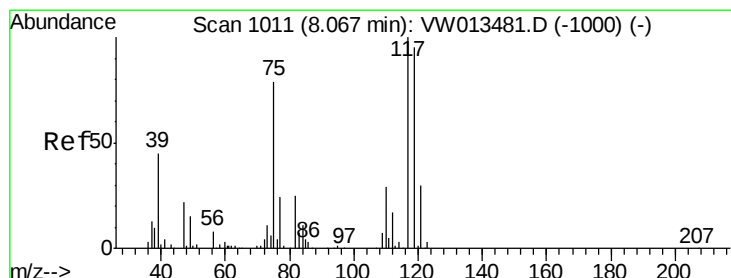
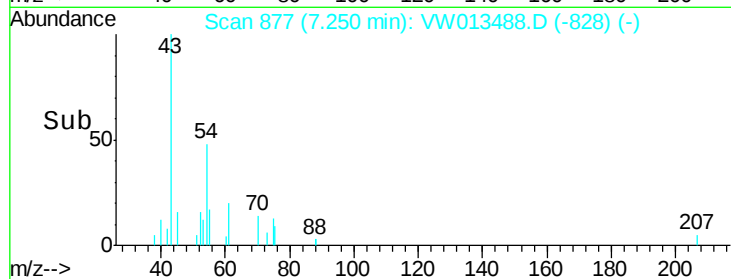
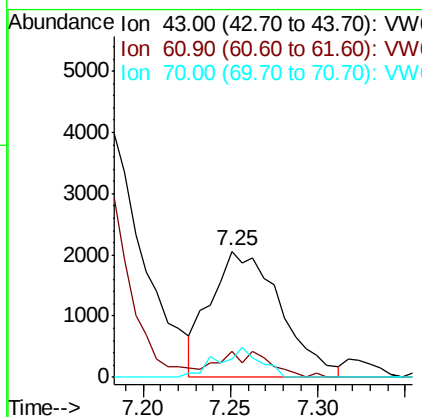
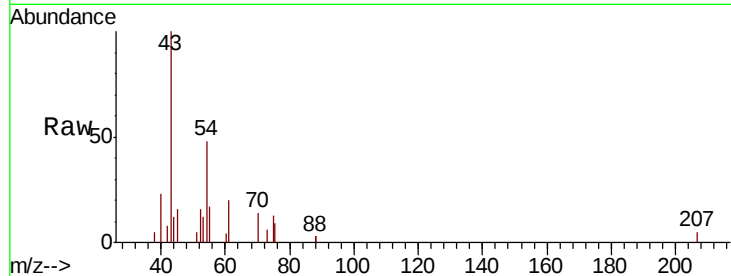
#37
Ethyl Acetate
Concen: 2.942 ug/l
RT: 7.25 min Scan# 877
Delta R.T. 0.00 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.9	16.3#
70	14.2	9.2	13.8#

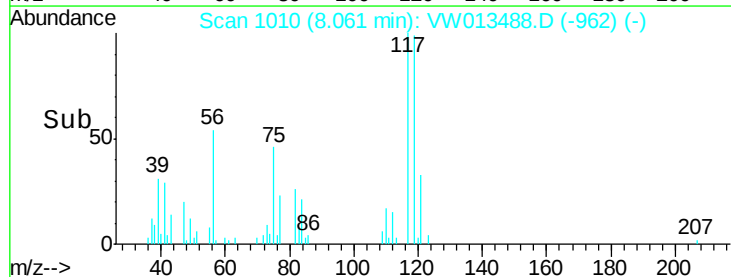
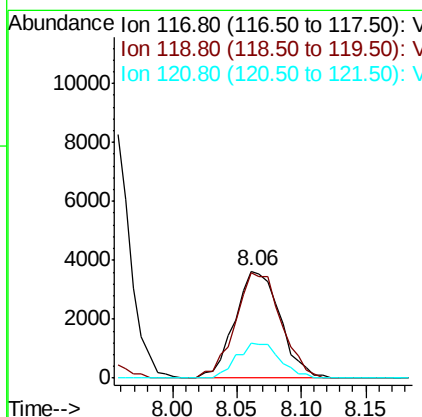
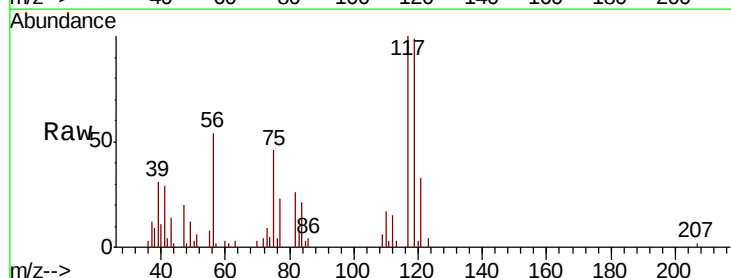
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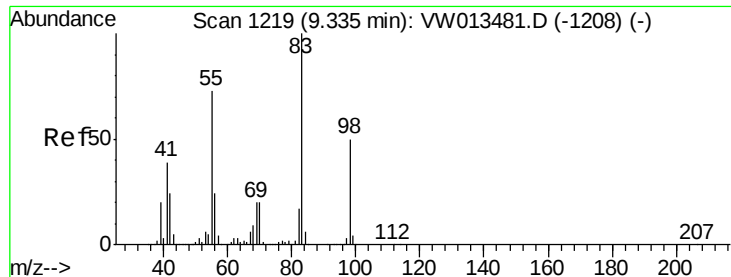
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#38
Carbon Tetrachloride
Concen: 2.321 ug/l
RT: 8.06 min Scan# 1010
Delta R.T. -0.01 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.6	76.3	114.5
121	33.1	23.6	35.4





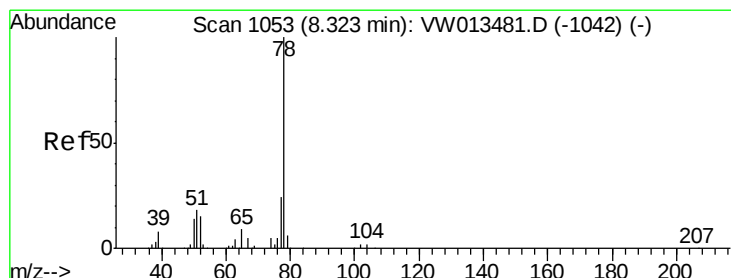
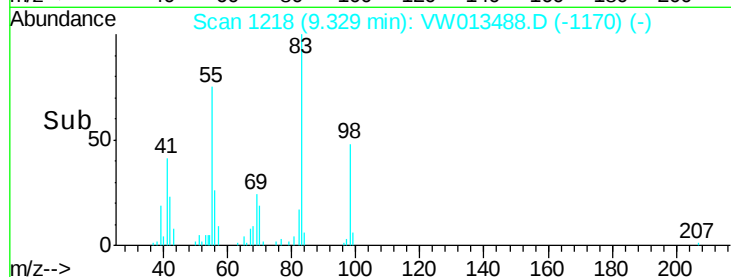
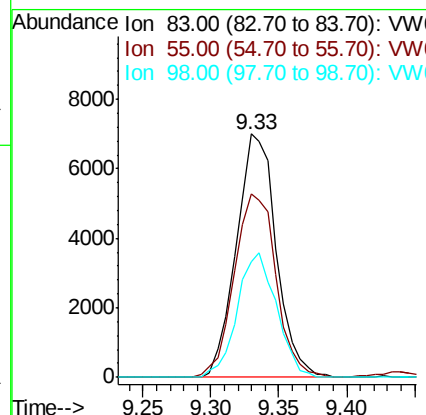
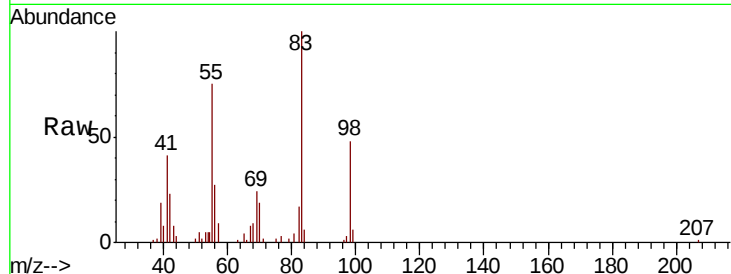
#39
Methvlcvclohexane
Concen: 2.569 ug/l
RT: 9.33 min Scan# 1219
Delta R.T. -0.01 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
83	100		
55	75.5	58.2	87.4
98	47.5	39.8	59.6

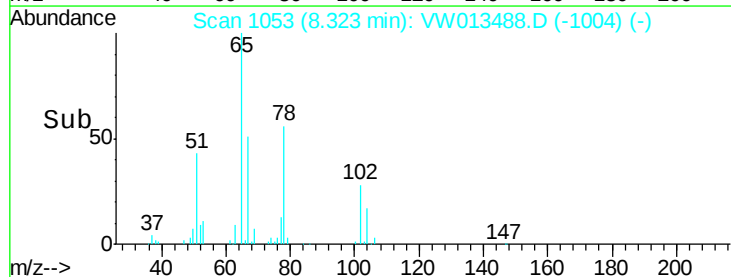
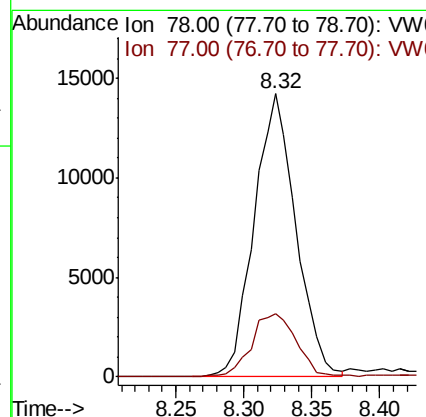
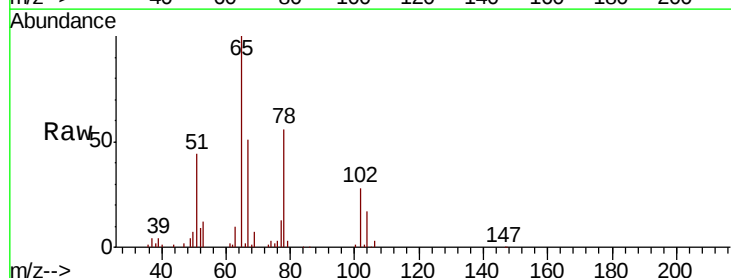
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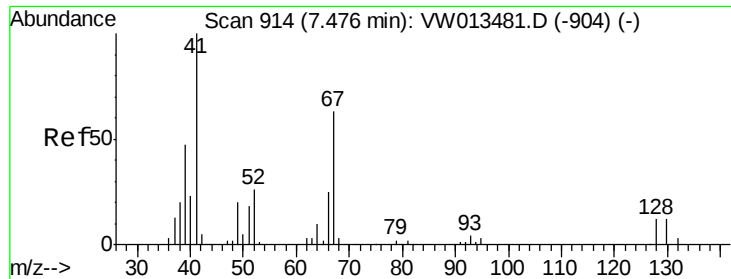
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#40
Benzene
Concen: 2.549 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. 0.00 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.4	19.2	28.8





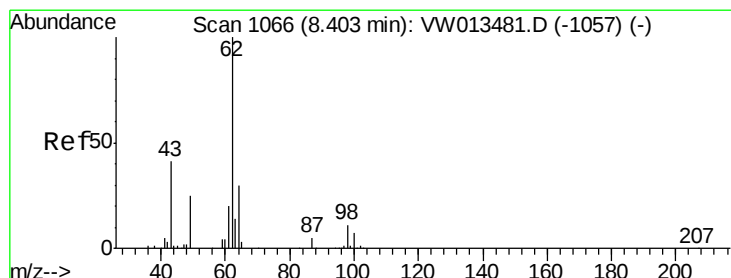
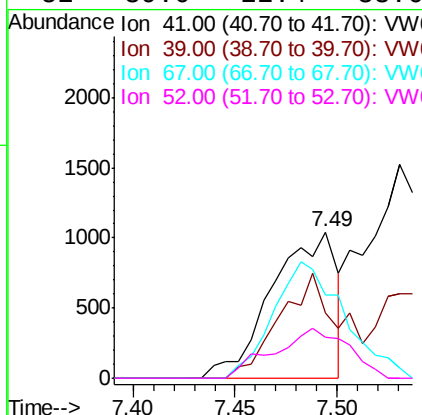
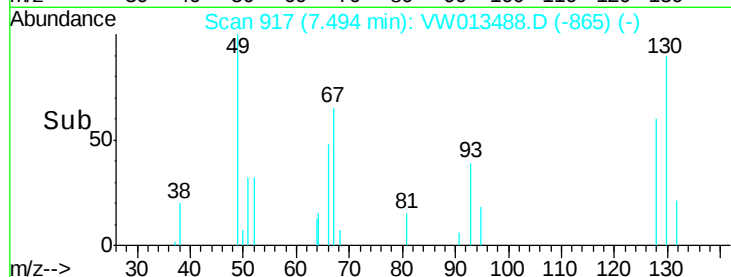
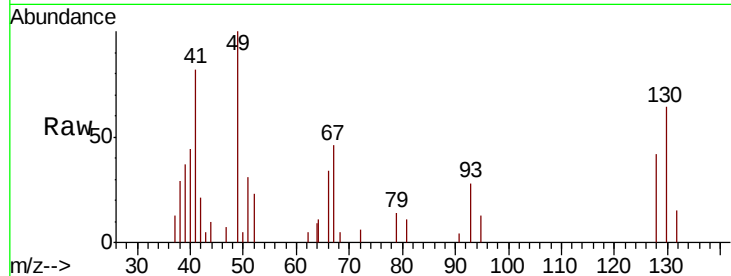
#41
Methacrylonitrile
Concen: 2.080 ug/l
RT: 7.49 min Scan# 917
Delta R.T. 0.02 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
41	100		
39	66.5	39.4	59.0#
67	88.5	57.0	85.6#
52	39.0	22.4	33.6#

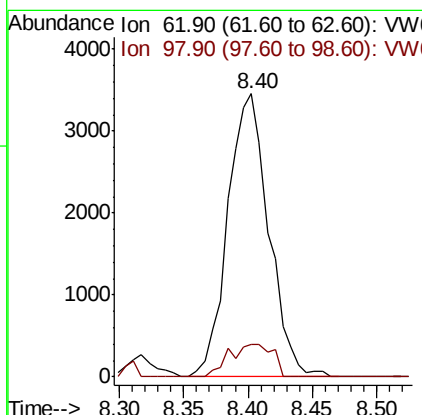
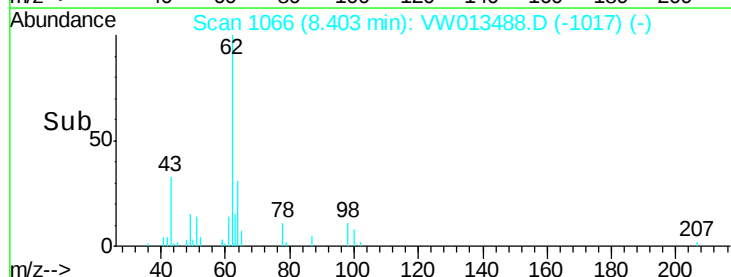
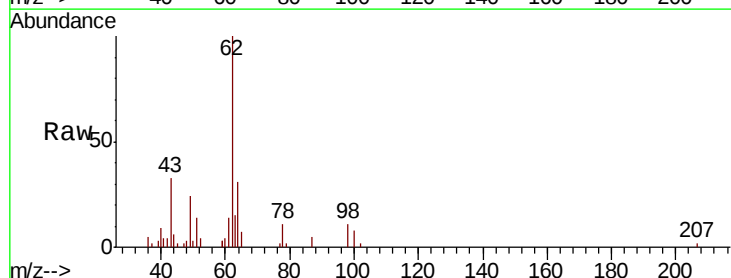
Manual Integrations
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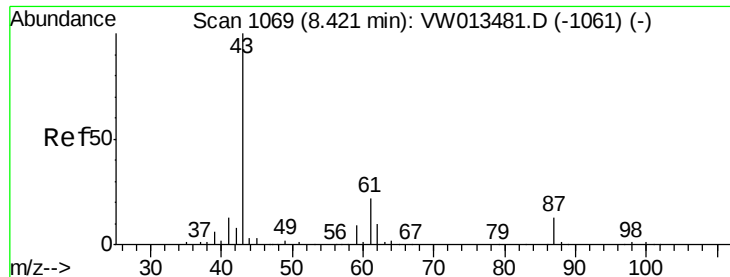
MMDadoda
10/9/2019 4:09:55 PM



#42
1,2-Dichloroethane
Concen: 2.524 ug/l
RT: 8.40 min Scan# 1066
Delta R.T. 0.00 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Tgt Ion	Ratio	Lower	Upper
62	100		
98	12.4	0.0	21.4





#43

Isopropyl Acetate

Concen: 2.502 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

Instrument :

MSVOA_W

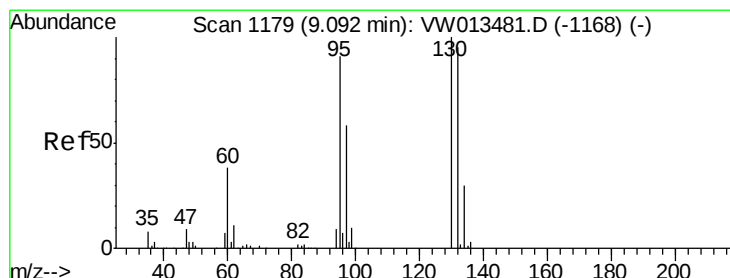
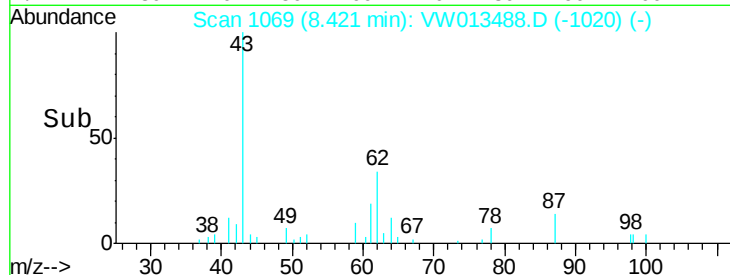
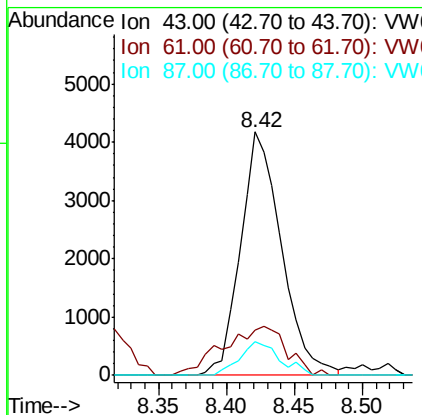
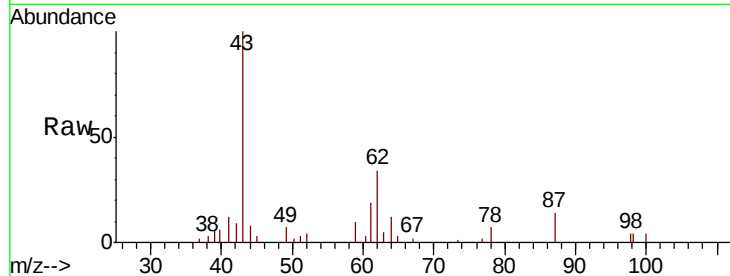
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion:	43	Resp:	8811
Ion	Ratio	Lower	Upper
43	100		
61	31.2	25.4	38.2
87	13.5	10.8	16.2

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#44

Trichloroethene

Concen: 2.571 ug/l

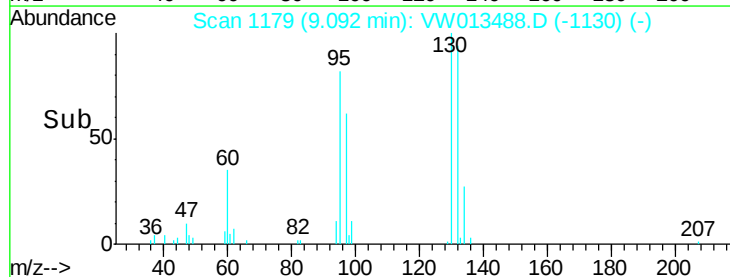
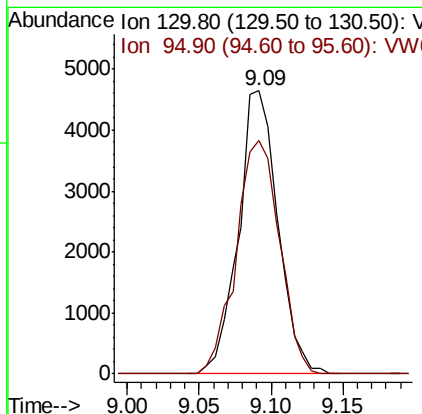
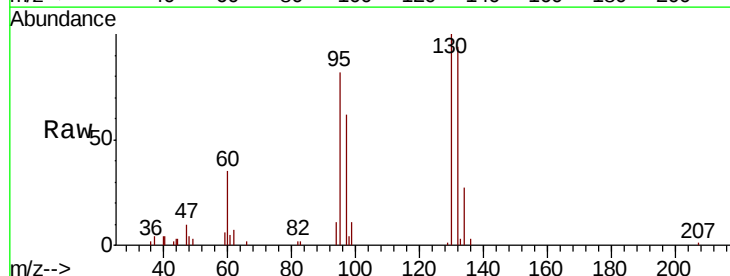
RT: 9.09 min Scan# 1179

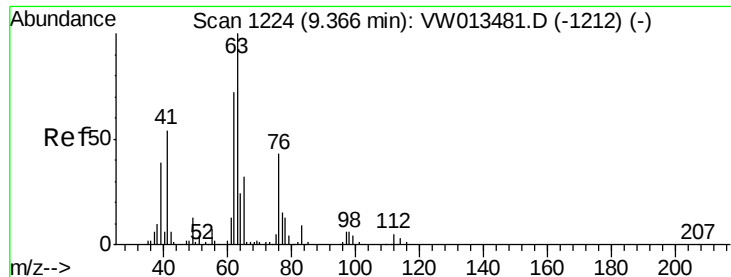
Delta R.T. 0.00 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

Tgt Ion:	130	Resp:	8794
Ion	Ratio	Lower	Upper
130	100		
95	82.4	0.0	182.2





#45

1,2-Dichloropropane

Concen: 2.450 ug/l

RT: 9.37 min Scan# 1225

Delta R.T. 0.01 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 63 Resp: 7051

Ion Ratio Lower Upper

63 100

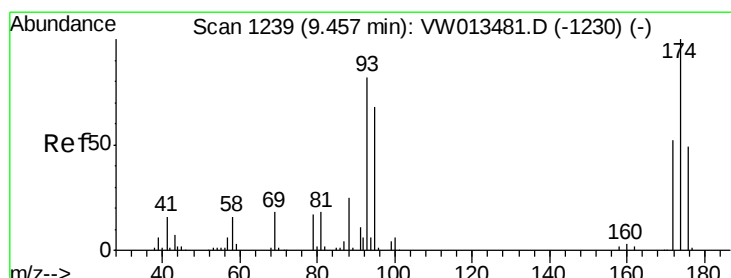
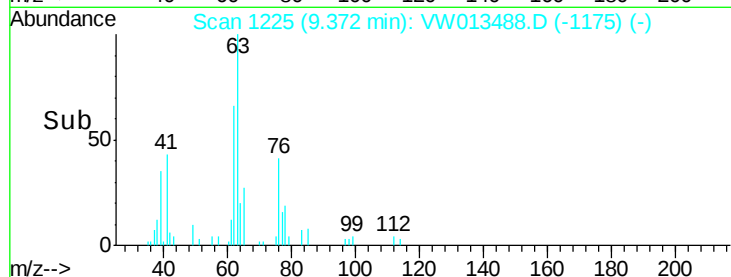
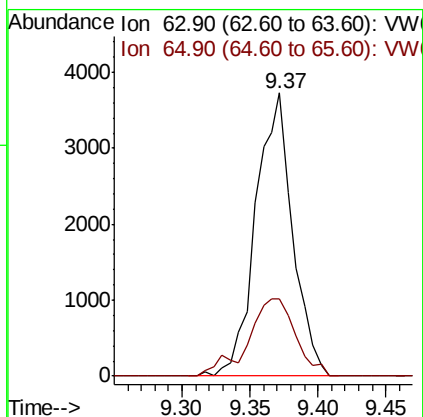
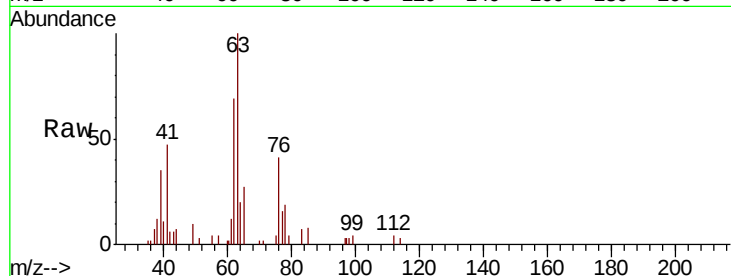
65 27.3 25.8 38.6

Manual Integrations

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#46

Dibromomethane

Concen: 2.412 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. 0.00 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

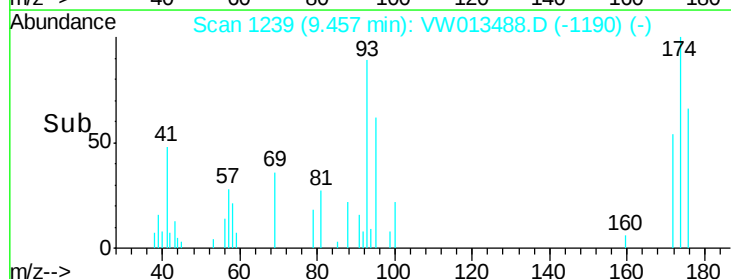
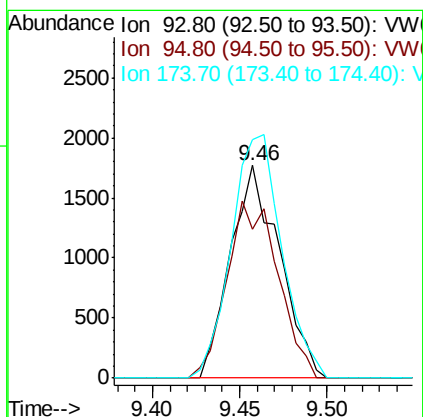
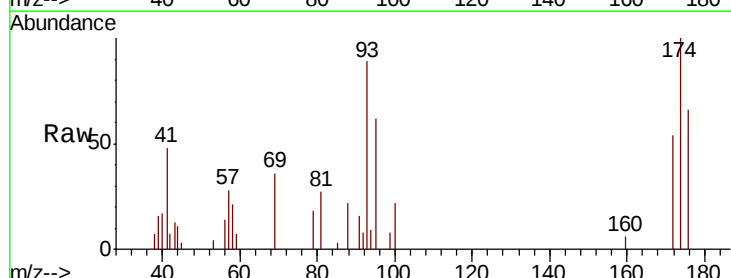
Tgt Ion: 93 Resp: 3458

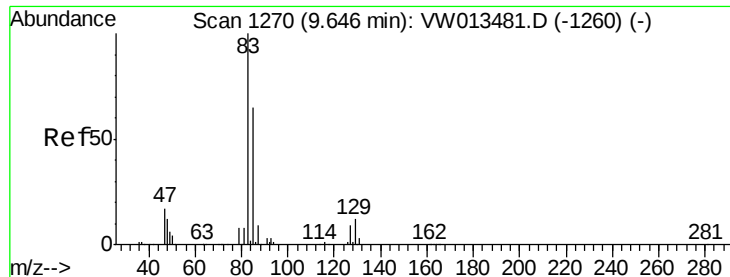
Ion Ratio Lower Upper

93 100

95 86.4 68.0 102.0

174 118.2 97.0 145.6





#47

Bromodichloromethane

Concen: 2.411 ug/l

RT: 9.64 min Scan# 1269

Delta R.T. -0.01 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

Instrument :

MSVOA_W

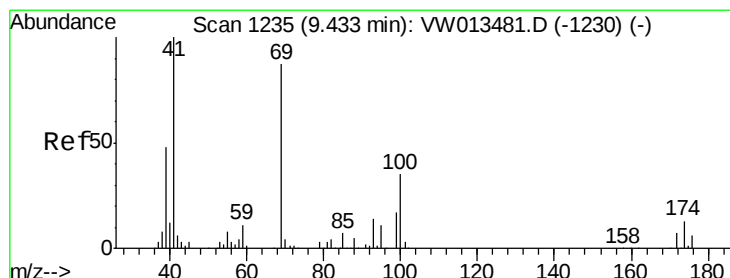
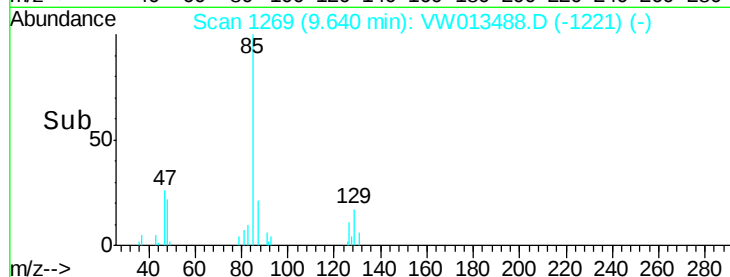
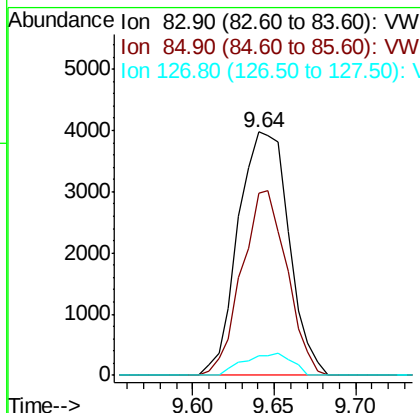
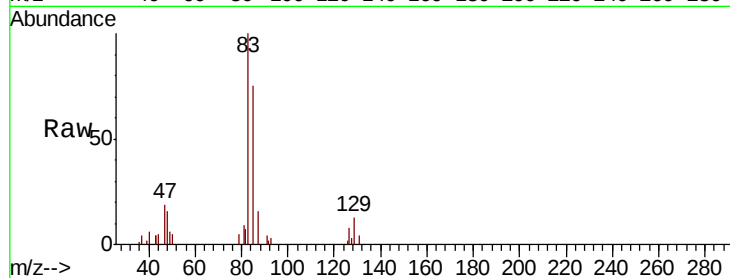
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion:	83	Resp:	8592
Ion	Ratio	Lower	Upper
83	100		
85	74.6	51.9	77.9
127	8.0	7.4	11.2

Manual Integrations
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#48

Methyl methacrylate

Concen: 2.546 ug/l

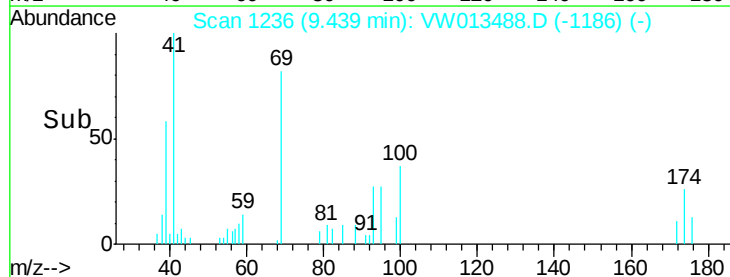
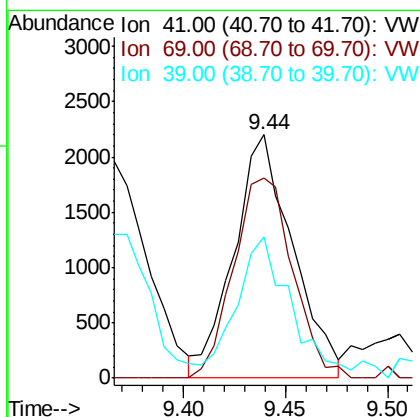
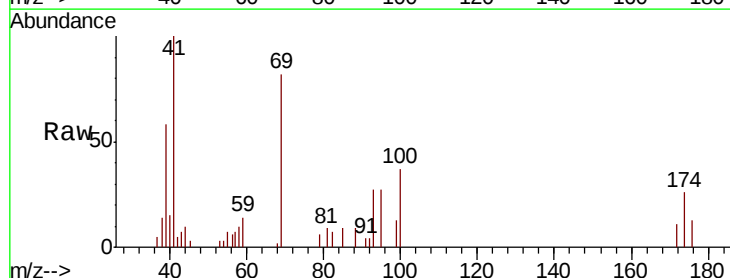
RT: 9.44 min Scan# 1236

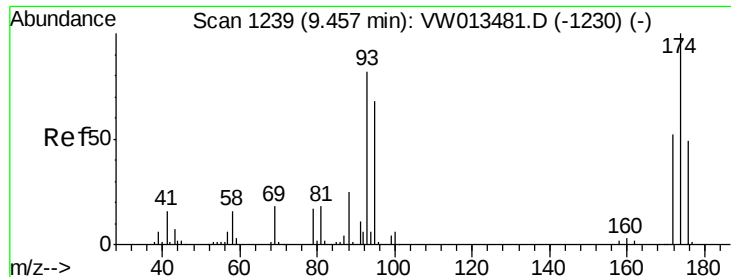
Delta R.T. 0.01 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

Tgt Ion:	41	Resp:	4416
Ion	Ratio	Lower	Upper
41	100		
69	82.6	70.4	105.6
39	45.7	37.3	55.9





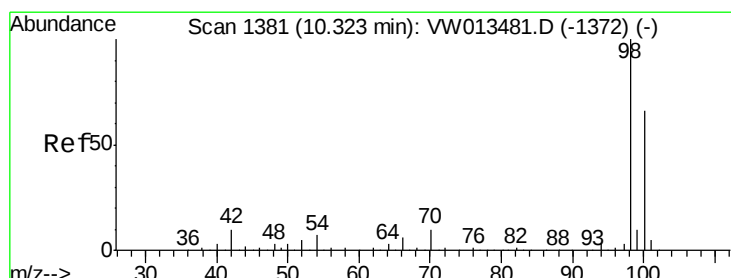
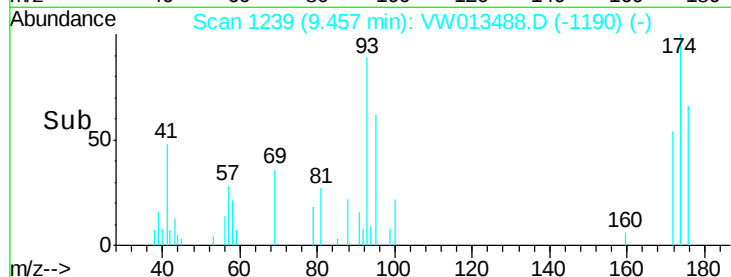
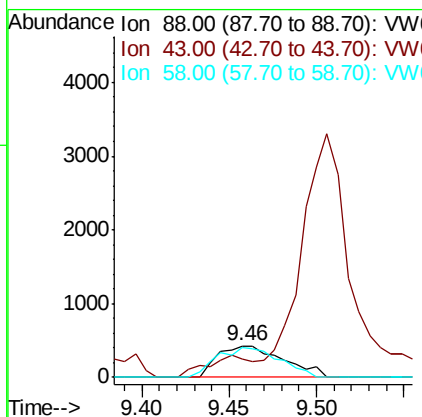
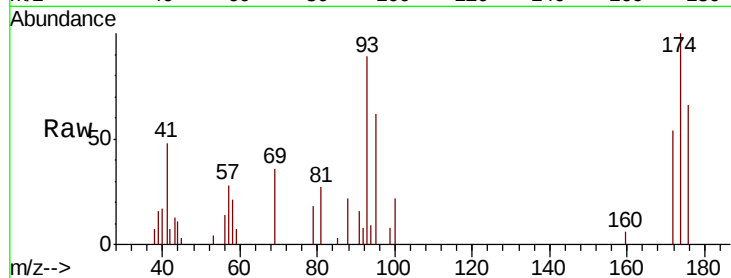
#49
1,4-Dioxane
Concen: 44.966 ug/l
RT: 9.46 min Scan# 1239
Delta R.T. 0.00 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
88	100		
43	45.8	0.0	0.0#
58	89.6	60.0	90.0

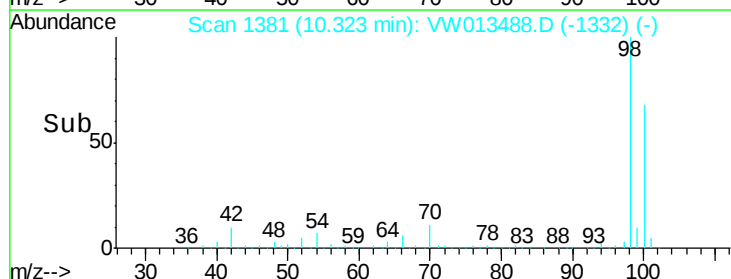
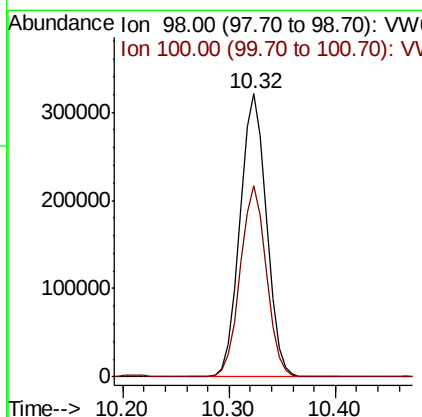
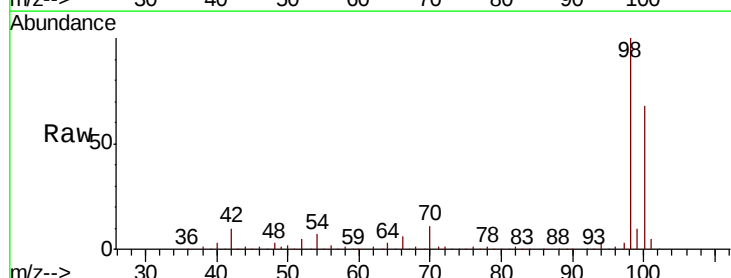
Manual Integrations
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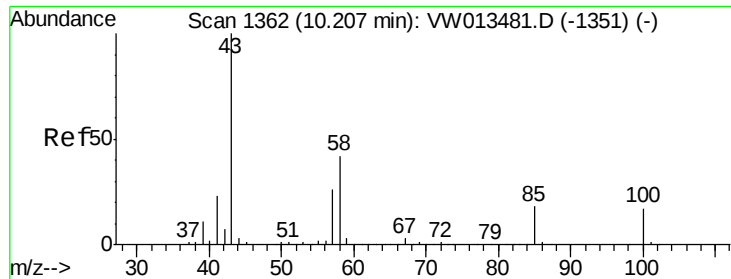
MMDadoda
10/9/2019 4:09:55 PM



#50
Toluene-d8
Concen: 50.501 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.6	53.2	79.8





#51

4-Methyl-2-Pentanone

Concen: 13.329 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 43 Resp: 24673

Ion Ratio Lower Upper

43 100

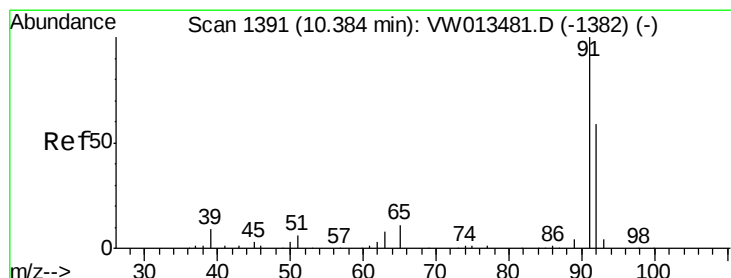
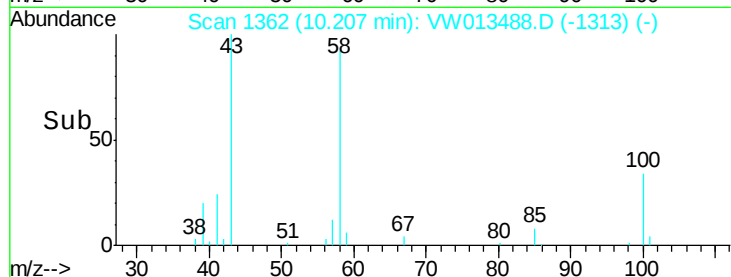
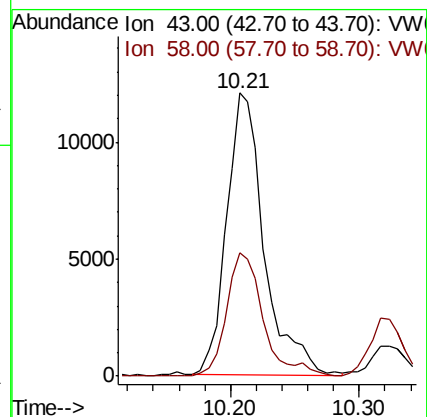
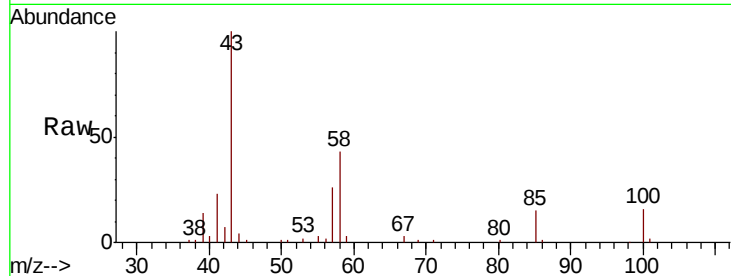
58 42.5 32.8 49.2

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#52

Toluene

Concen: 2.535 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW013488.D

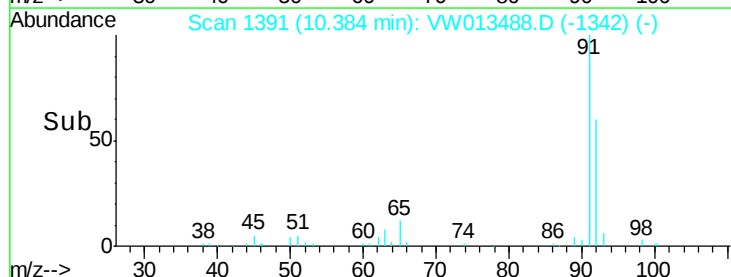
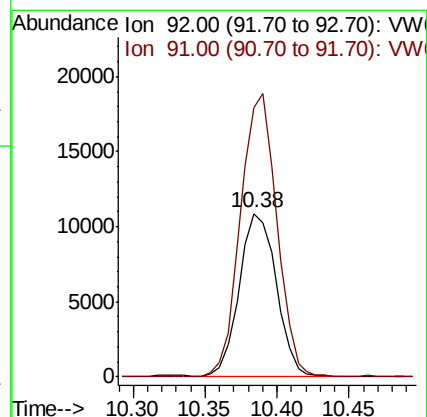
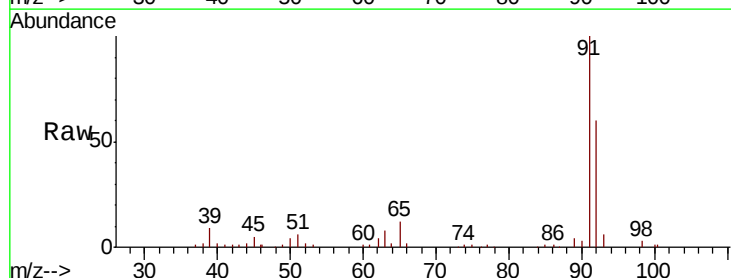
Acq: 08 Oct 2019 15:53

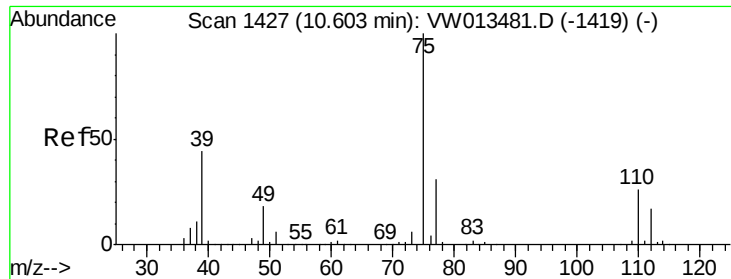
Tgt Ion: 92 Resp: 19582

Ion Ratio Lower Upper

92 100

91 169.1 134.8 202.2





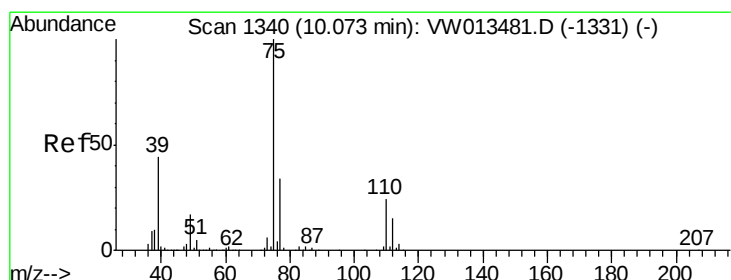
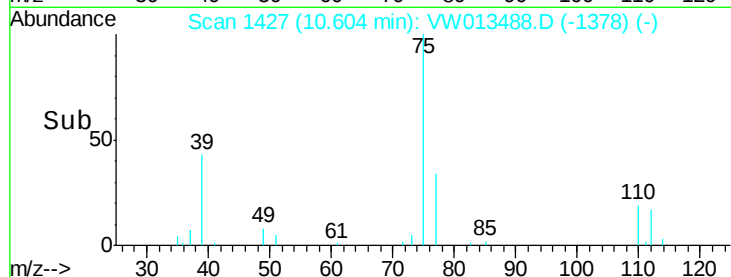
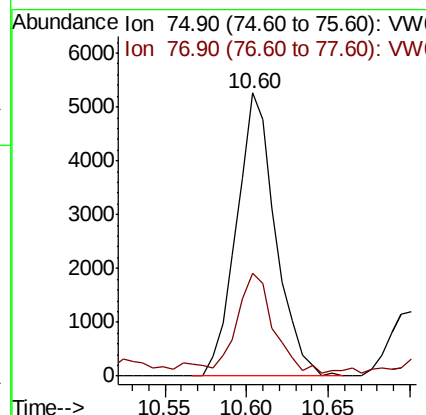
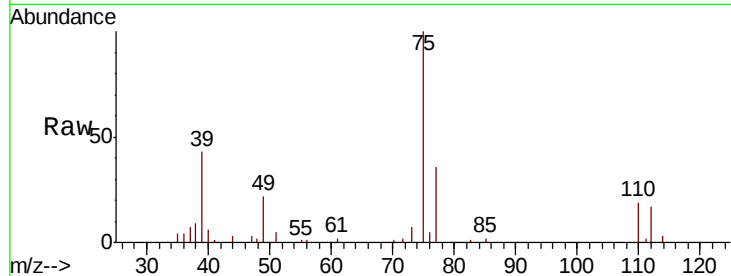
#53
t-1,3-Dichloropropene
Concen: 2.356 ug/l
RT: 10.60 min Scan# 1427
Delta R.T. 0.00 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 75 Resp: 8725
Ion Ratio Lower Upper
75 100
77 34.1 25.2 37.8

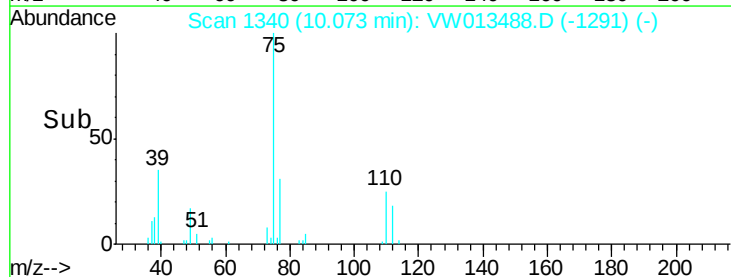
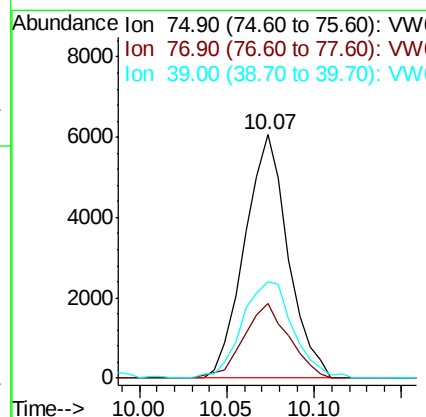
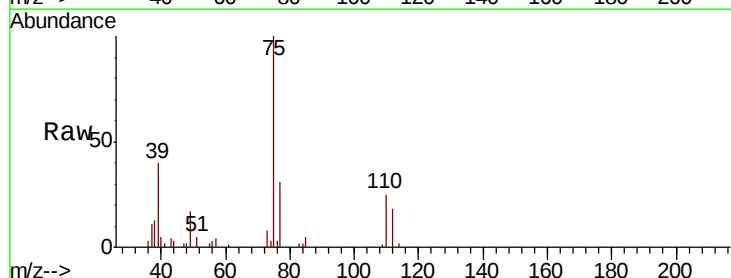
Manual Integrations
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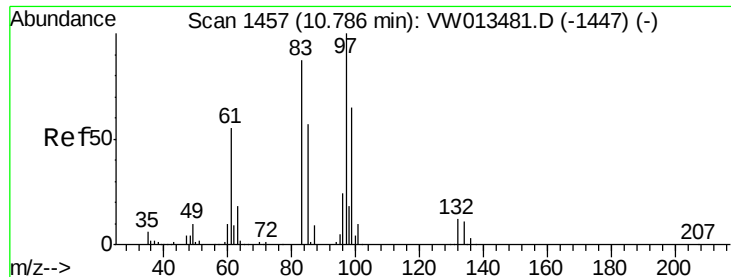
MMDadoda
10/9/2019 4:09:55 PM



#54
cis-1,3-Dichloropropene
Concen: 2.330 ug/l
RT: 10.07 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Tgt Ion: 75 Resp: 10454
Ion Ratio Lower Upper
75 100
77 30.7 27.0 40.4
39 39.6 35.0 52.4





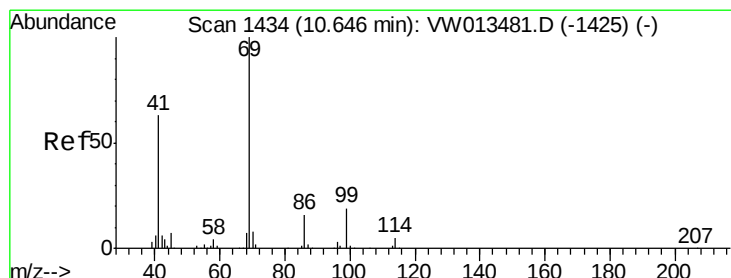
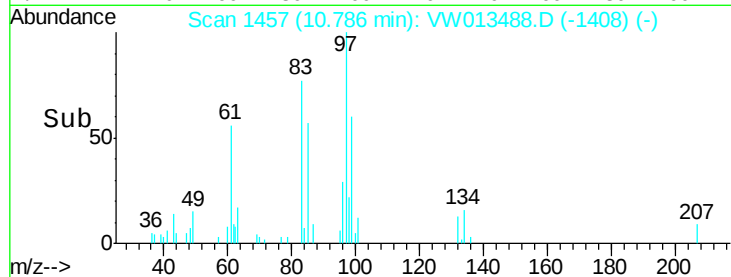
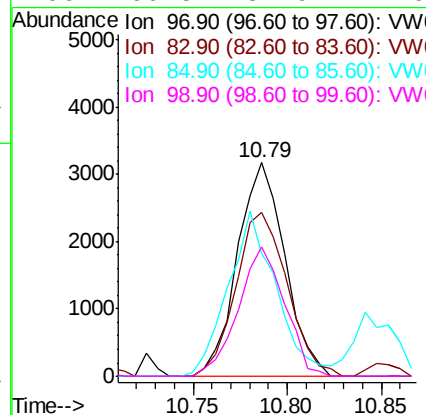
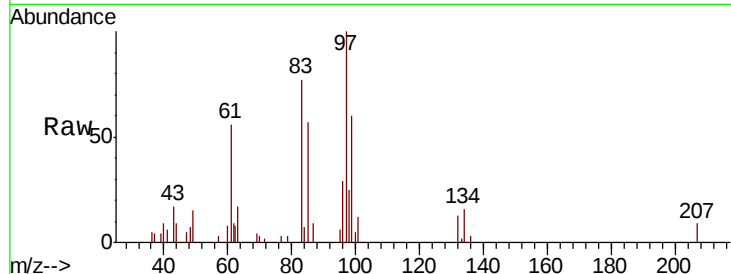
#55
 1,1,2-Trichloroethane
 Concen: 2.572 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. 0.00 min
 Lab File: VW013488.D
 Acq: 08 Oct 2019 15:53

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

Tot Ion:	97	Resp:	5534
Ion	Ratio	Lower	Upper
97	100		
83	77.0	69.8	104.8
85	55.8	45.4	68.0
99	60.5	51.9	77.9

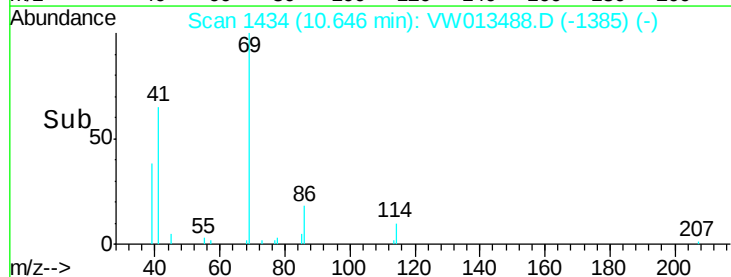
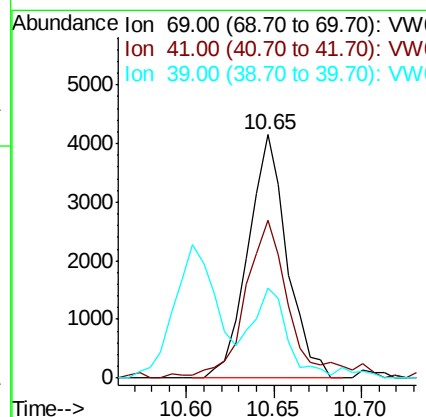
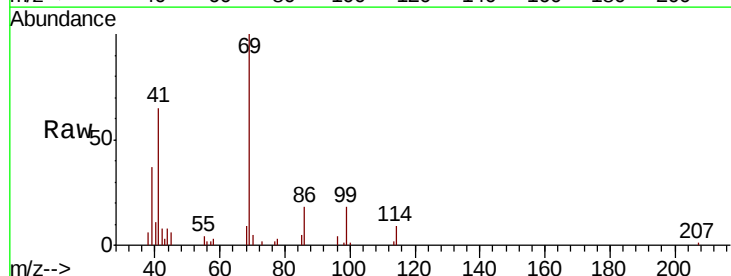
Manual Integrations
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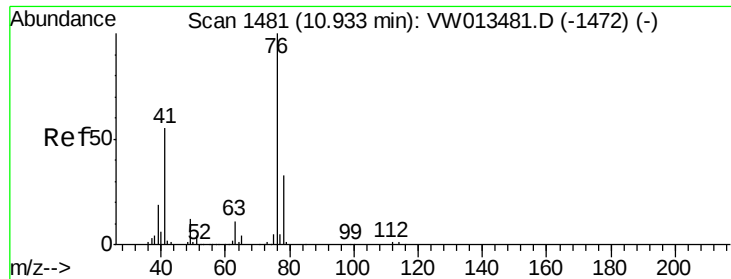
MMDadoda
 10/9/2019 4:09:55 PM



#56
 Ethyl methacrylate
 Concen: 2.216 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. 0.00 min
 Lab File: VW013488.D
 Acq: 08 Oct 2019 15:53

Tgt Ion:	69	Resp:	6424
Ion	Ratio	Lower	Upper
69	100		
41	74.4	51.8	77.6
39	33.7	21.7	32.5#





#57

1,3-Dichloropropane

Concen: 2.502 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. 0.00 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 76 Resp: 9247

Ion Ratio Lower Upper

76 100

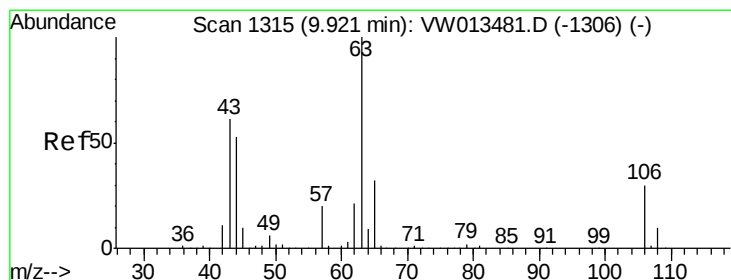
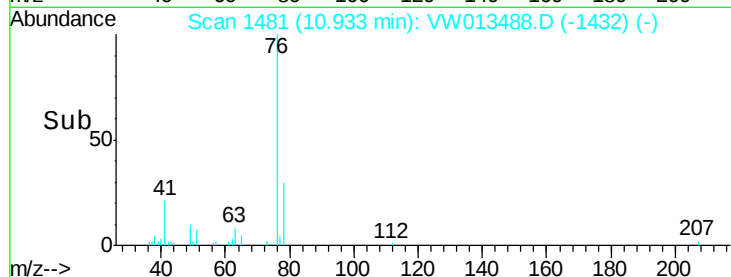
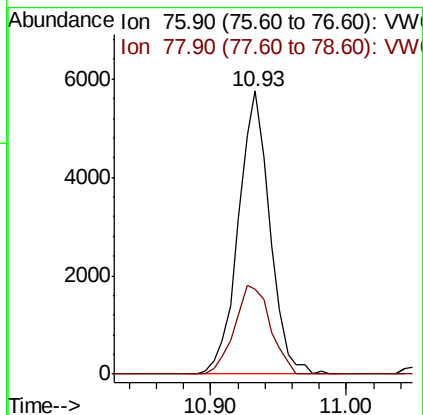
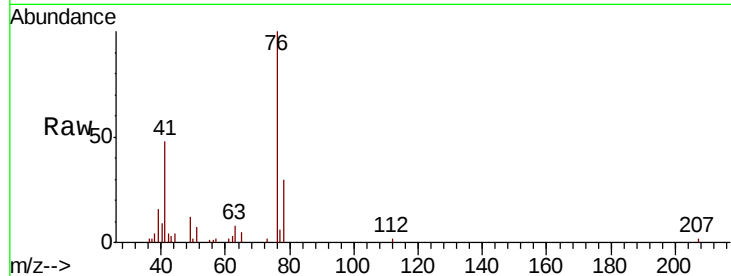
78 35.7 25.9 38.9

Manual Integrations

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10/9/2019 4:09:55 PM



#58

2-Chloroethyl Vinyl ether

Concen: 13.477 ug/l

RT: 9.93 min Scan# 1316

Delta R.T. 0.01 min

Lab File: VW013488.D

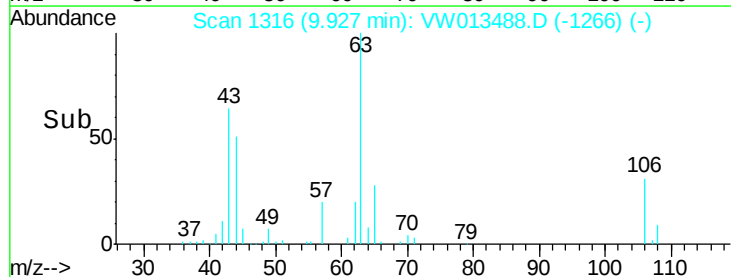
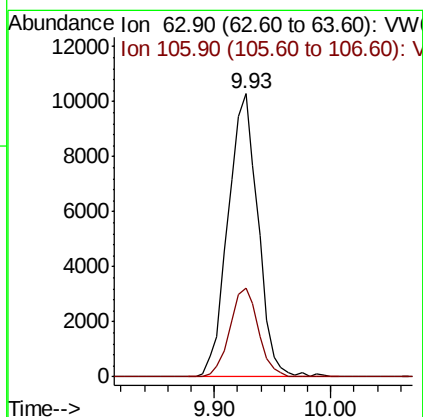
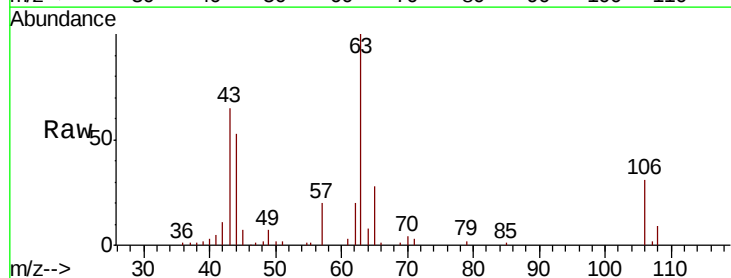
Acq: 08 Oct 2019 15:53

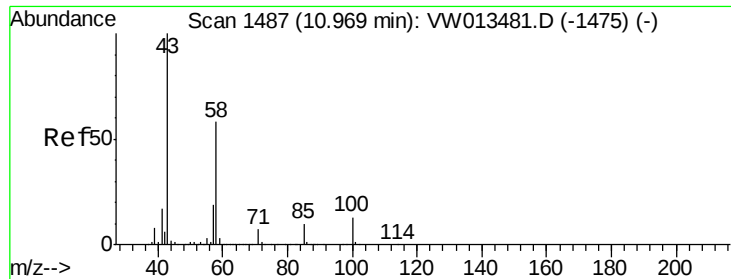
Tgt Ion: 63 Resp: 18428

Ion Ratio Lower Upper

63 100

106 29.7 24.5 36.7





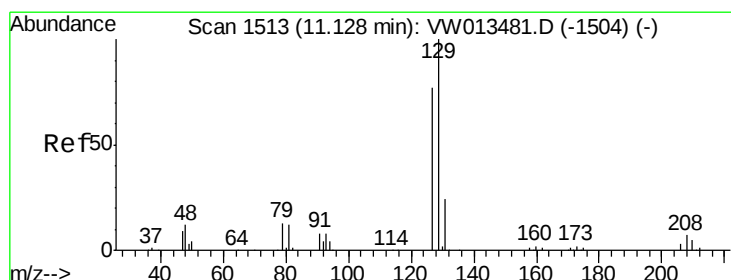
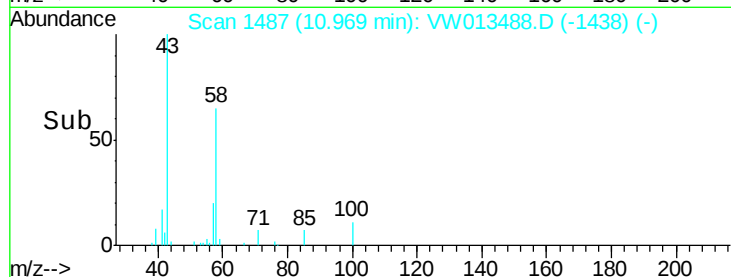
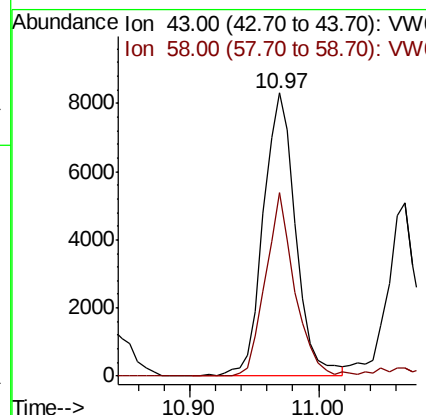
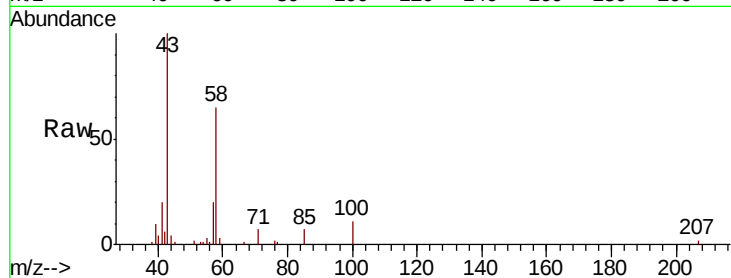
#59
2-Hexanone
Concen: 11.363 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 43 Resp: 14424
Ion Ratio Lower Upper
43 100
58 58.6 28.4 85.2

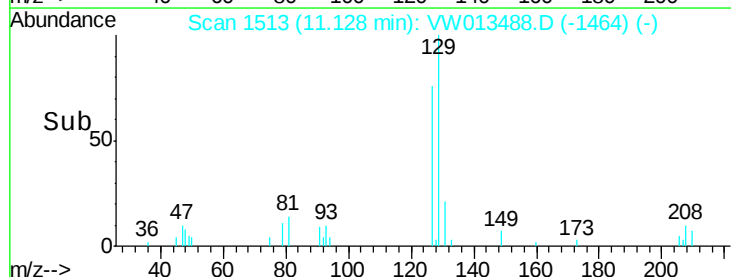
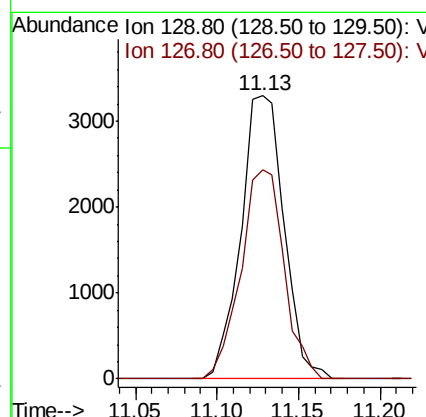
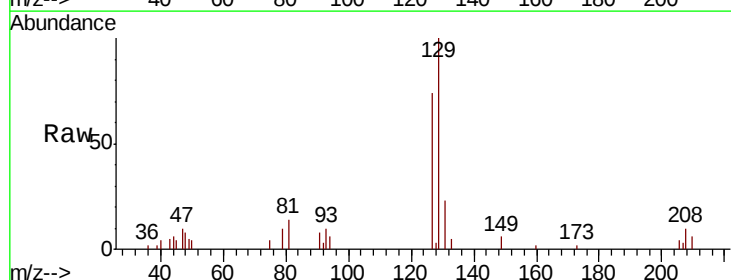
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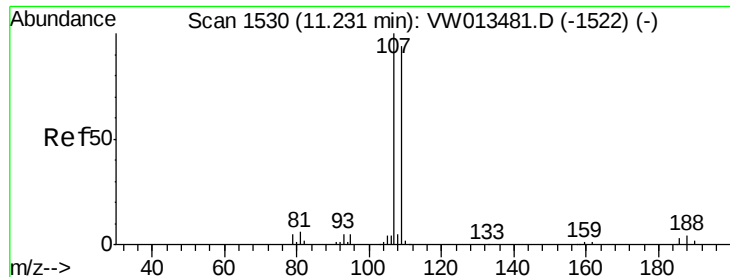
MMDadoda
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#60
Dibromochloromethane
Concen: 2.447 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Tgt Ion:129 Resp: 6057
Ion Ratio Lower Upper
129 100
127 74.3 37.4 112.1





#61

1,2-Dibromoethane

Concen: 2.657 ug/l

RT: 11.23 min Scan# 1530

Delta R.T. 0.00 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 107 Resp: 5439

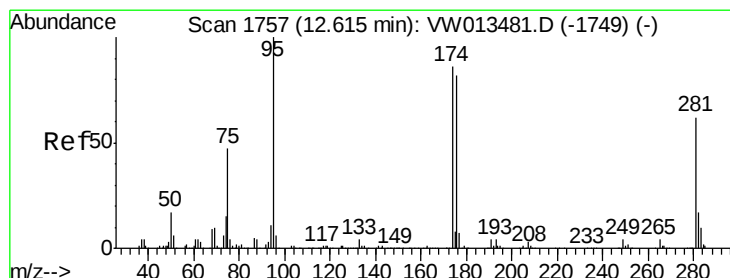
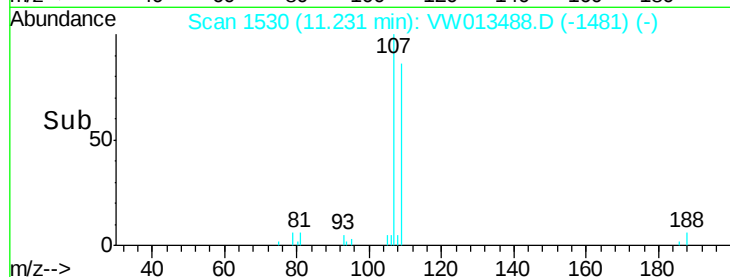
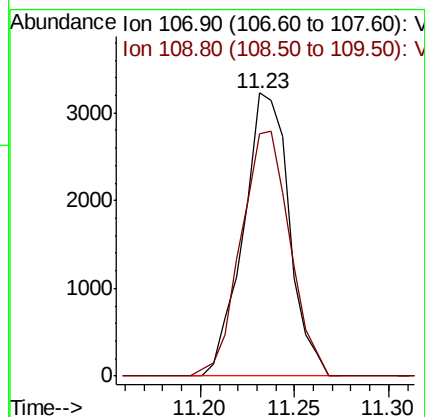
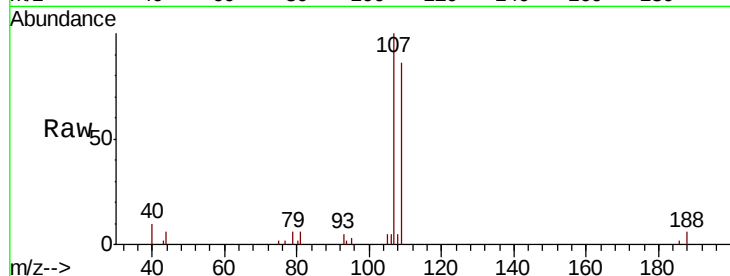
Ion Ratio Lower Upper

107 100

109 92.2 76.6 115.0

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#62

4-Bromofluorobenzene

Concen: 50.718 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

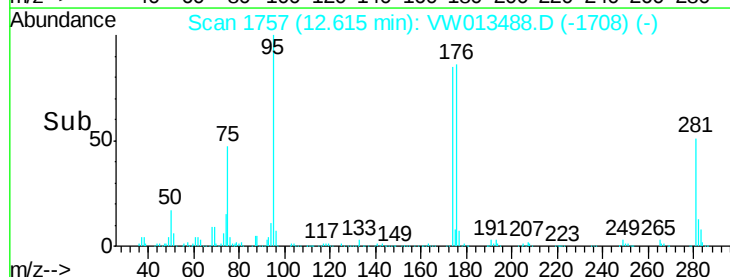
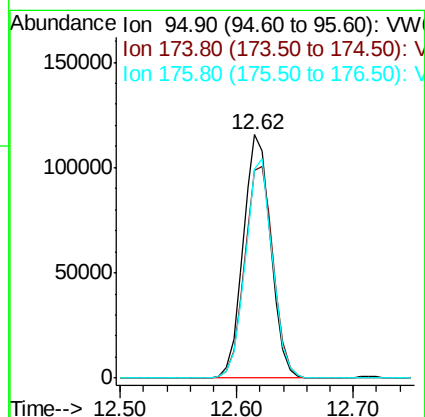
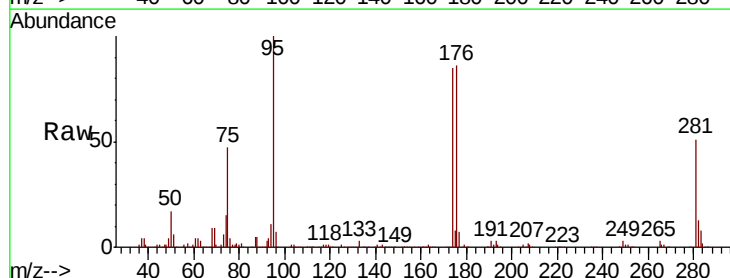
Tgt Ion: 95 Resp: 189882

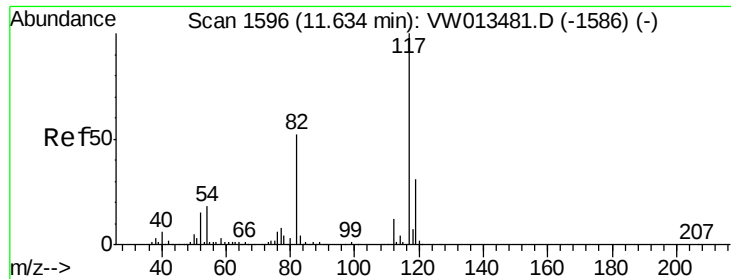
Ion Ratio Lower Upper

95 100

174 90.3 0.0 177.4

176 88.7 0.0 173.4





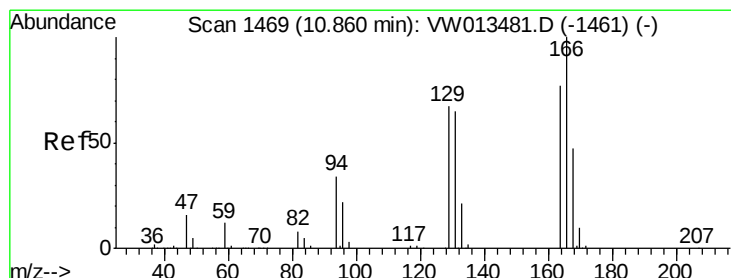
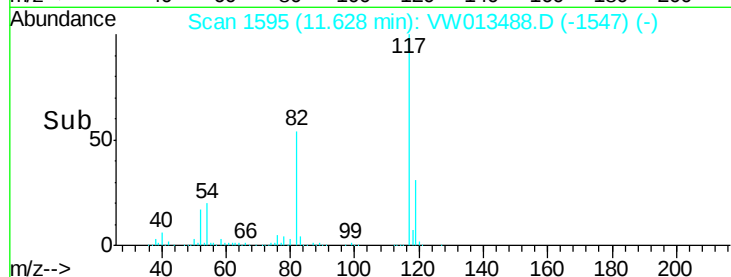
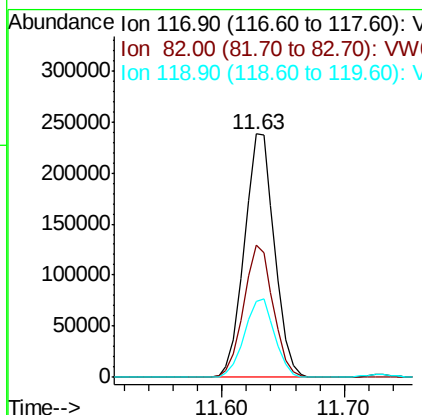
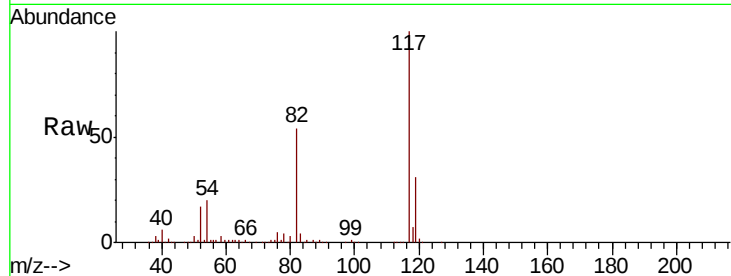
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
117	100	406990		
82	54.4		41.4	62.2
119	31.3		25.1	37.7

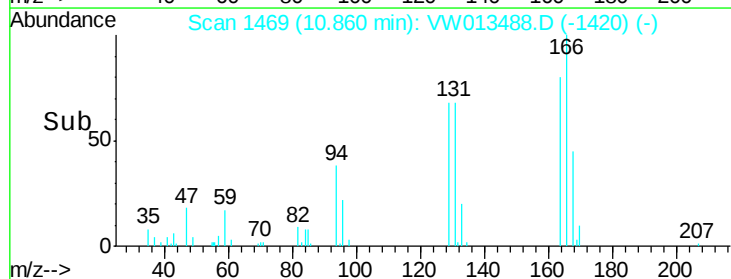
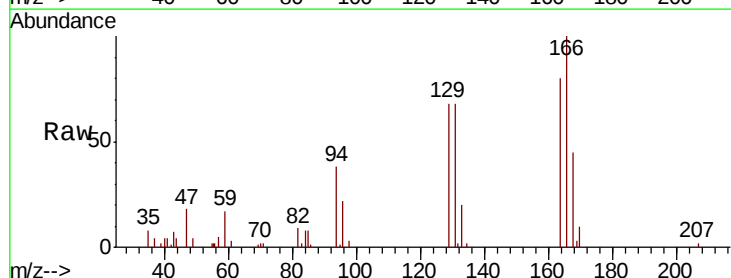
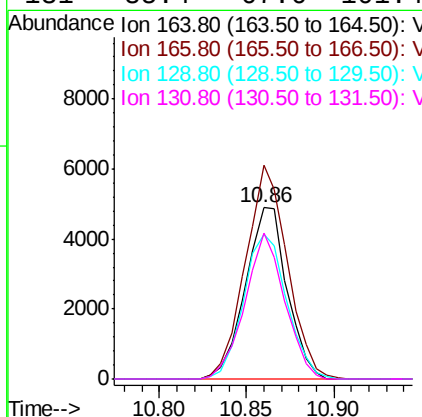
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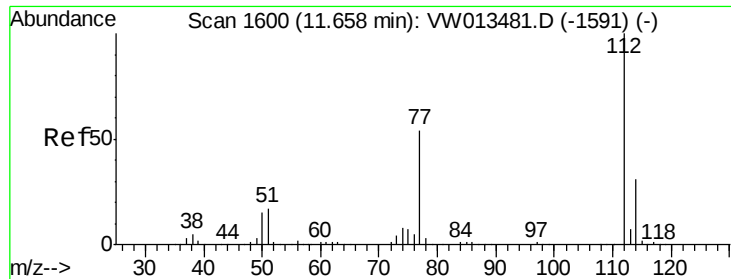
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#64
Tetrachloroethene
Concen: 2.712 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	8123		
166	125.0		104.6	156.8
129	84.6		70.2	105.2
131	85.4		67.6	101.4





#65

Chlorobenzene

Concen: 2.648 ug/l

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion:112 Resp: 21413

Ion Ratio Lower Upper

112 100

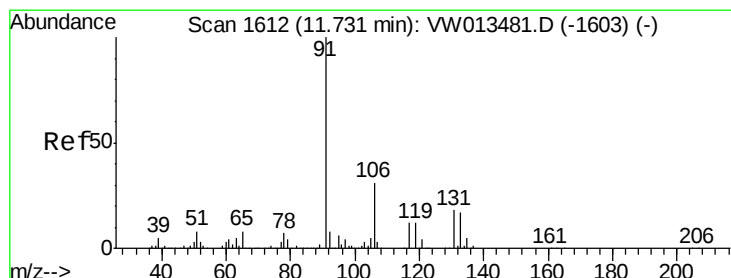
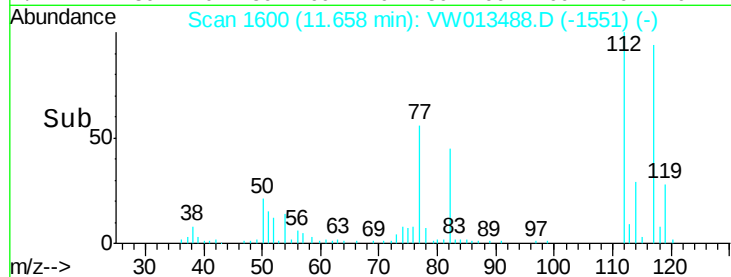
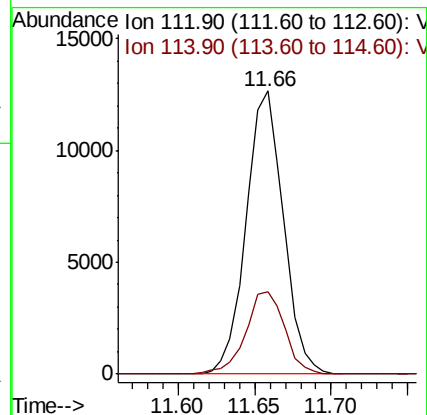
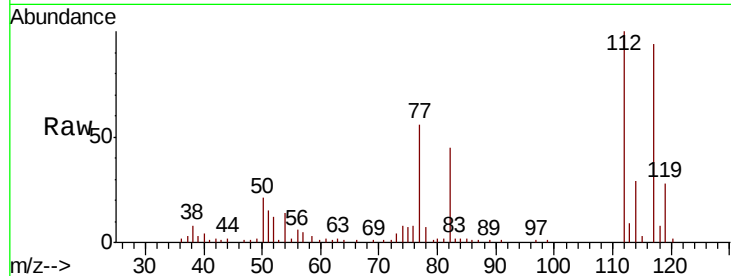
114 29.3 24.6 37.0

Manual Integrations

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#66

1,1,1,2-Tetrachloroethane

Concen: 2.689 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

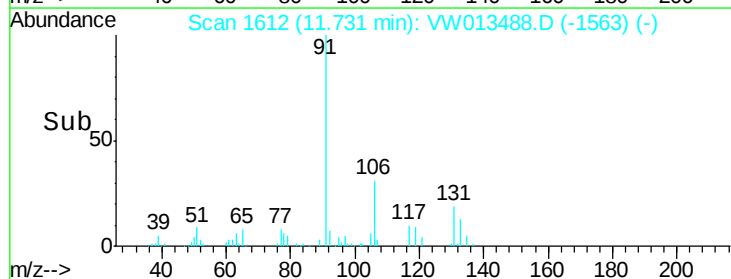
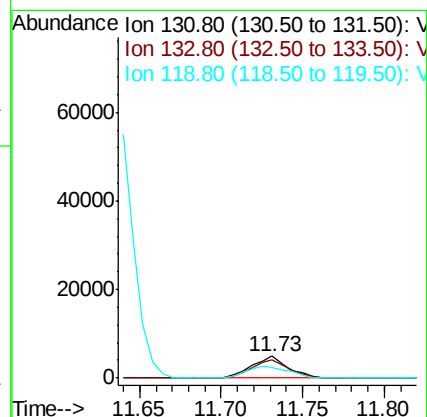
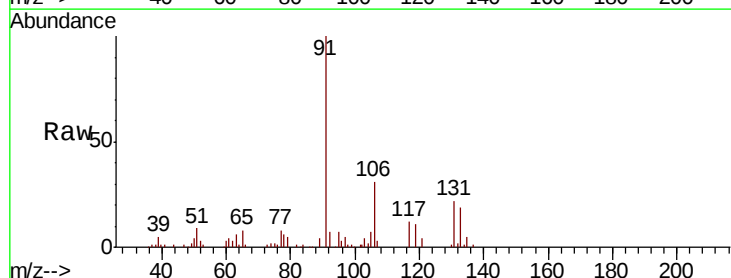
Tgt Ion:131 Resp: 7555

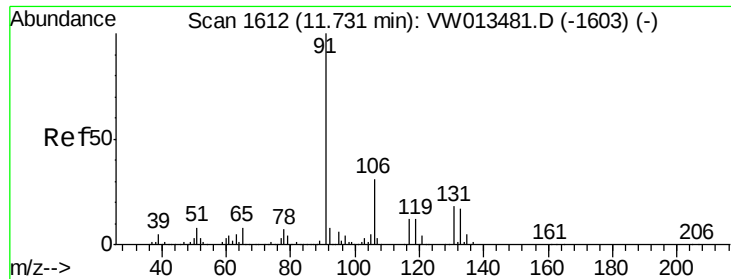
Ion Ratio Lower Upper

131 100

133 89.6 47.6 142.9

119 64.4 32.6 98.0





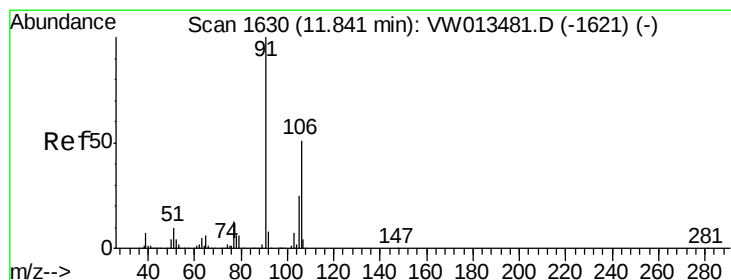
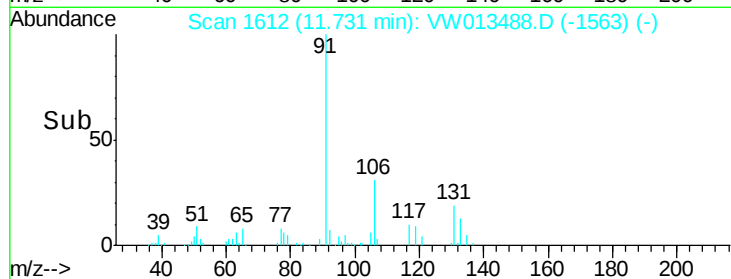
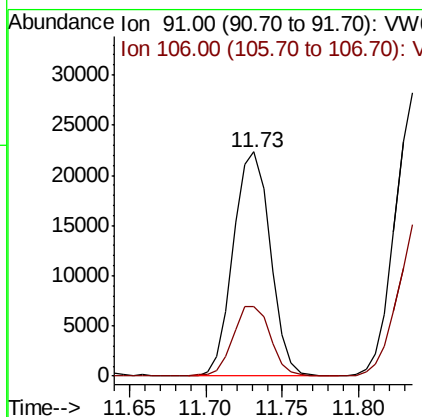
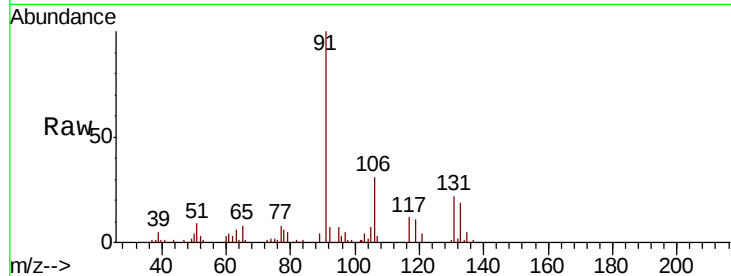
#67
Ethyl Benzene
Concen: 2.550 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 91 Resp: 37689
Ion Ratio Lower Upper
91 100
106 31.2 24.8 37.2

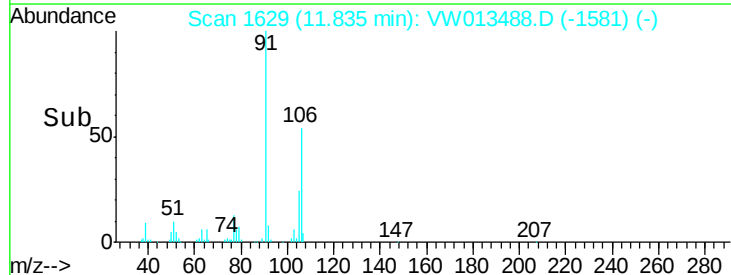
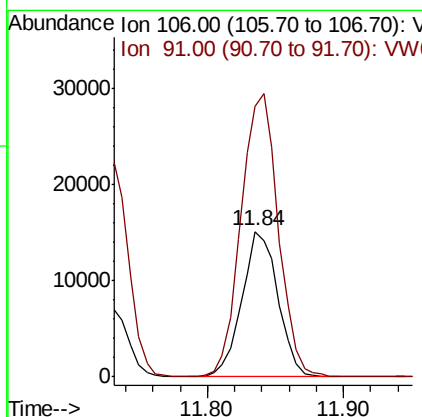
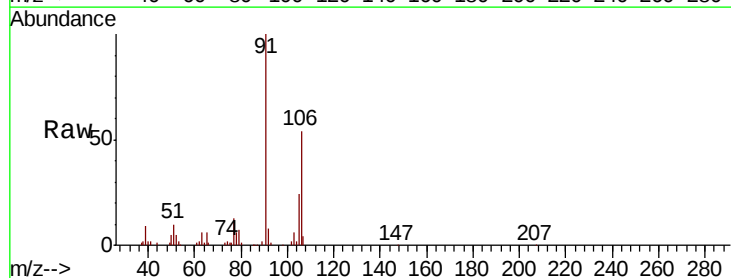
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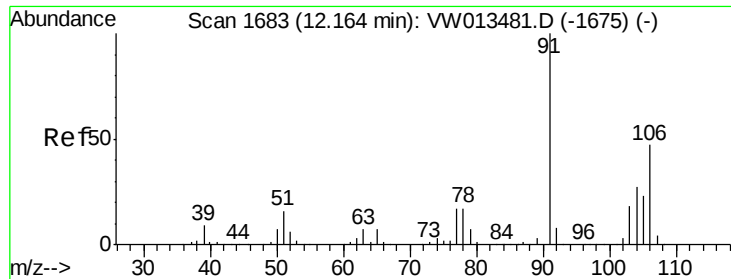
MMDadoda
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#68
m/p-Xylenes
Concen: 4.990 ug/l
RT: 11.84 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Tgt Ion: 106 Resp: 28066
Ion Ratio Lower Upper
106 100
91 201.3 156.2 234.4





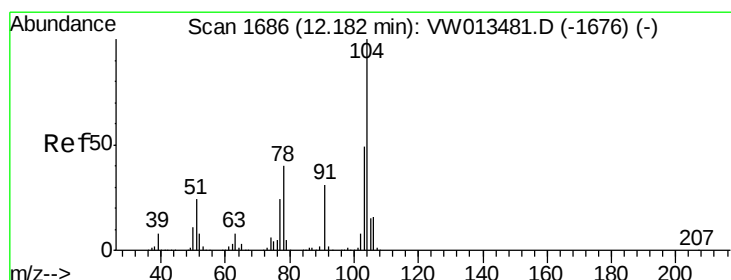
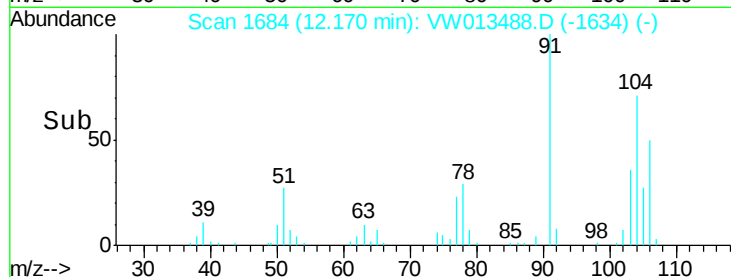
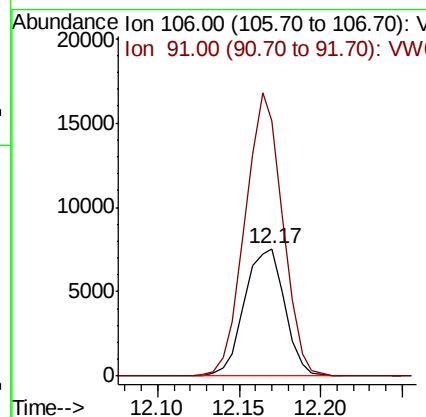
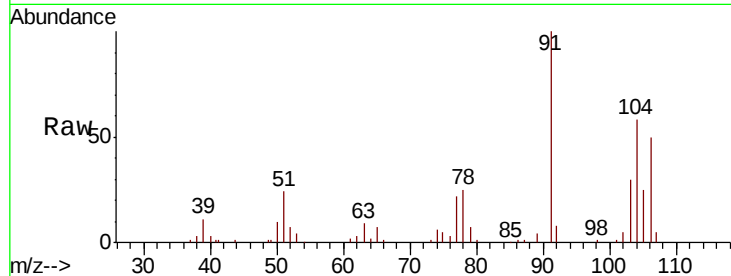
#69
o-Xylene
Concen: 2.497 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. 0.01 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion:106 Resp: 12973
Ion Ratio Lower Upper
106 100
91 207.8 105.0 315.0

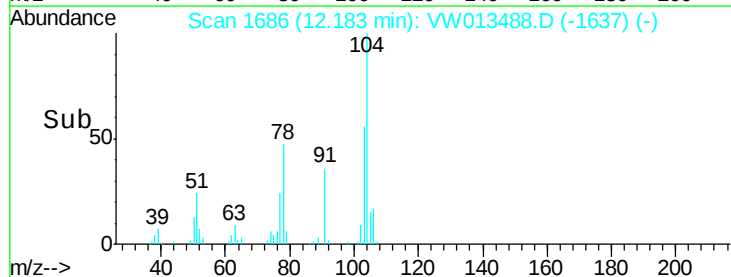
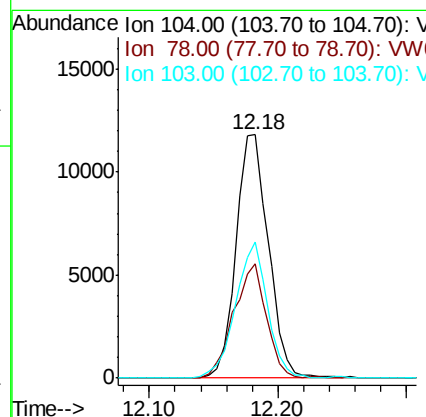
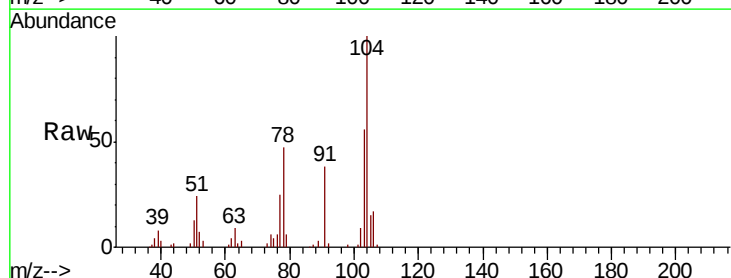
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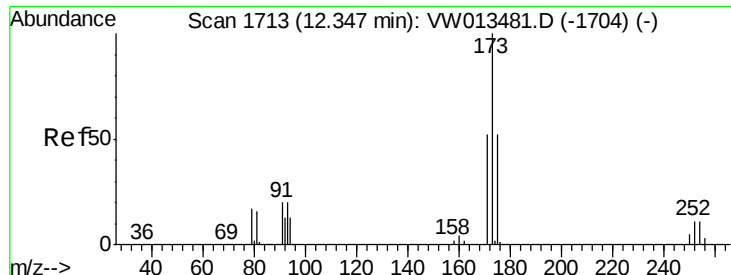
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#70
Styrene
Concen: 2.315 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Tgt Ion:104 Resp: 20651
Ion Ratio Lower Upper
104 100
78 47.1 37.1 55.7
103 55.3 43.2 64.8





#71

Bromoform

Concen: 2.192 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

Instrument :

MSVOA_W

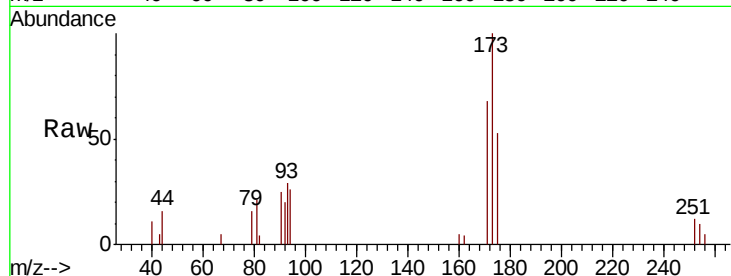
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

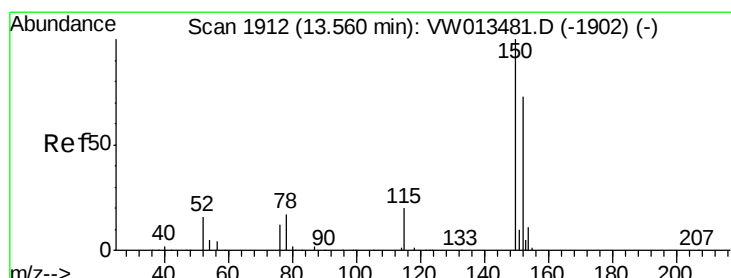
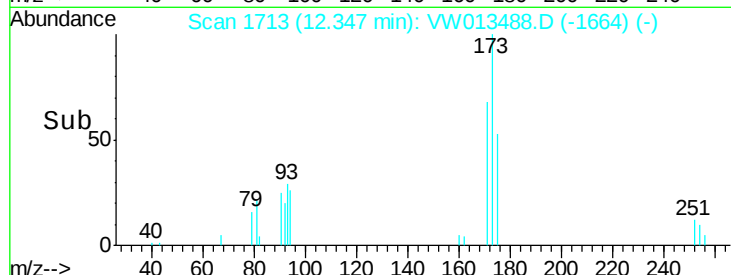
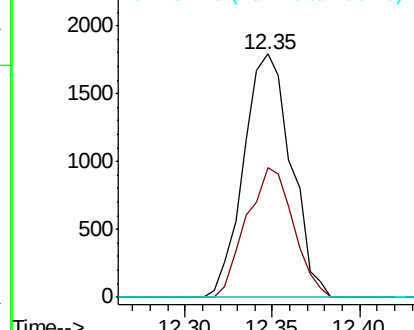
Tot Ion	Ratio	Lower	Upper
173	100		
175	52.7	24.4	73.4
254	0.0	0.1	0.1#

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

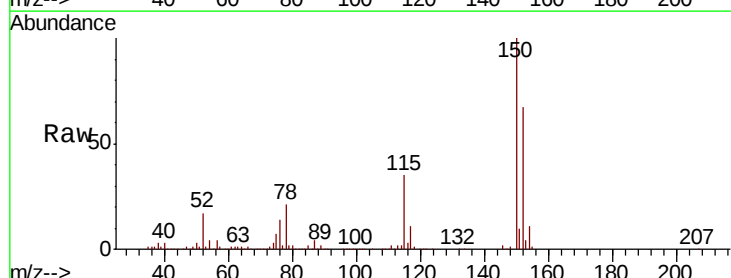
RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

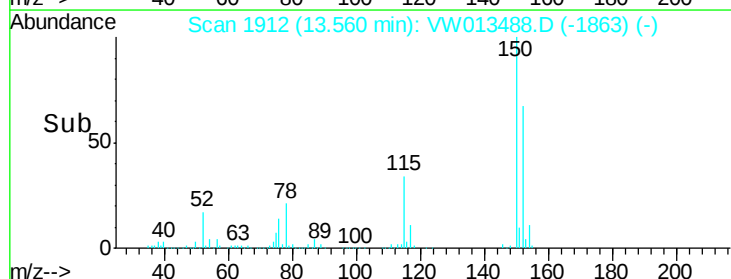
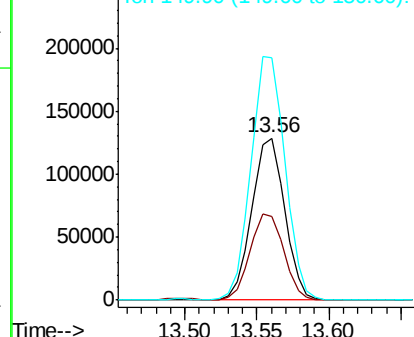
Lab File: VW013488.D

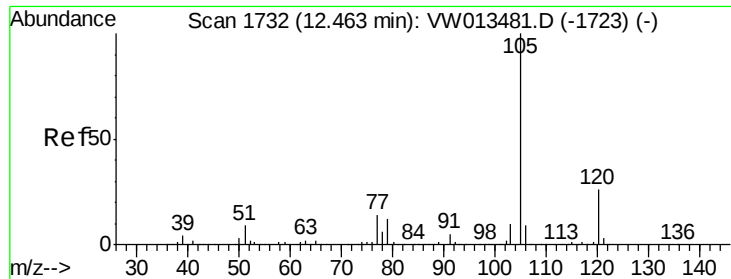
Acq: 08 Oct 2019 15:53

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.4	27.0	81.0
150	155.0	0.0	337.4



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





#73

Isopropylbenzene

Concen: 2.430 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion:105 Resp: 35433

Ion Ratio Lower Upper

105 100

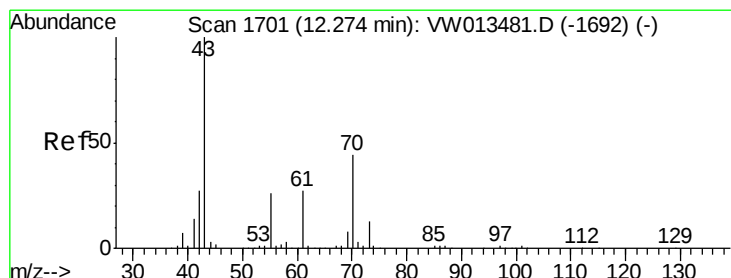
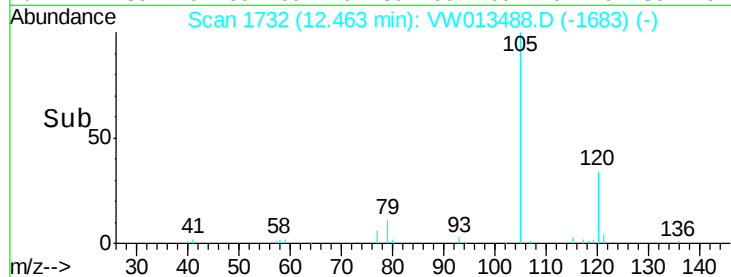
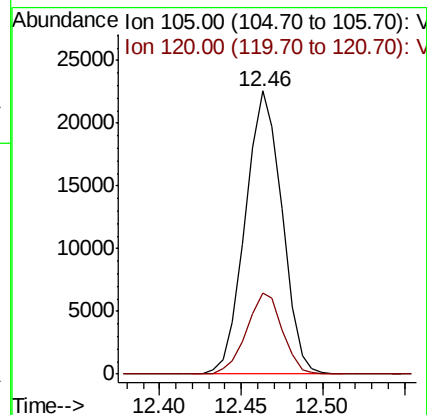
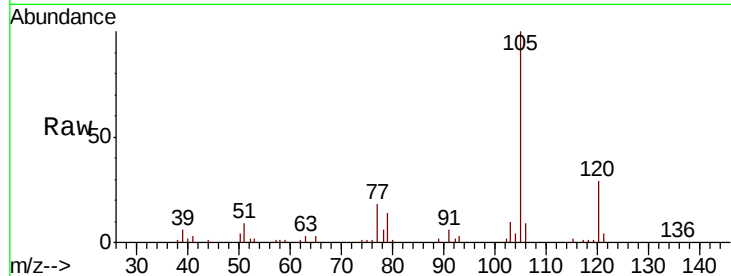
120 28.0 13.5 40.5

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#74

N-ethyl acetate

Concen: 2.237 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

Tgt Ion: 43 Resp: 7133

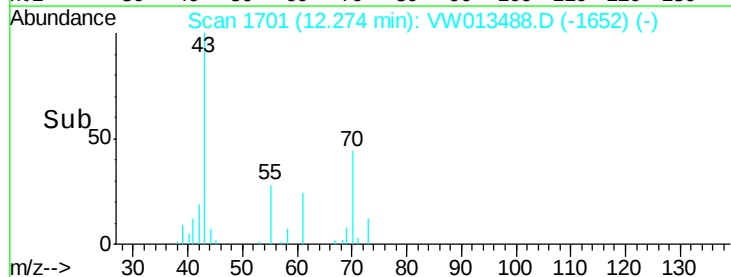
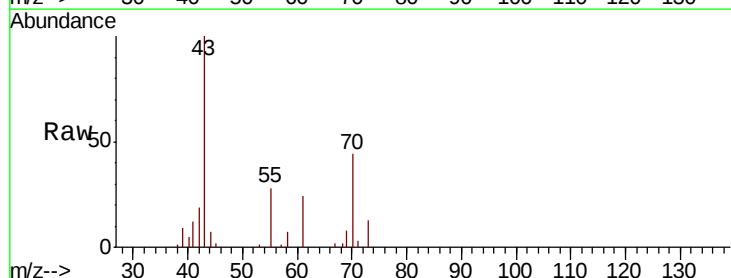
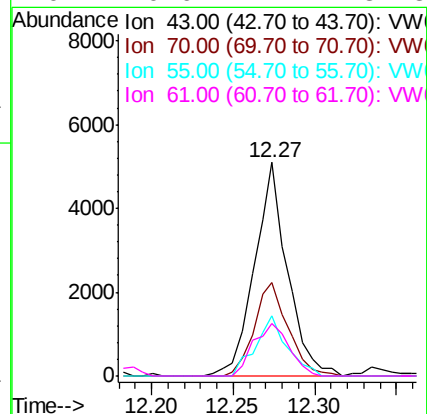
Ion Ratio Lower Upper

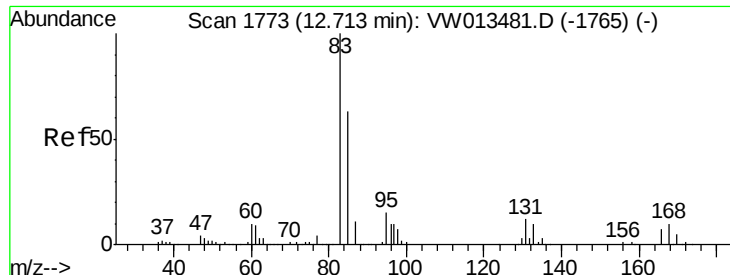
43 100

70 45.1 35.3 52.9

55 27.2 20.0 30.0

61 26.6 21.2 31.8





#75

1,1,2,2-Tetrachloroethane

Concen: 2.479 ug/l

RT: 12.72 min Scan# 1774

Delta R.T. 0.01 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

Instrument :

MSVOA_W

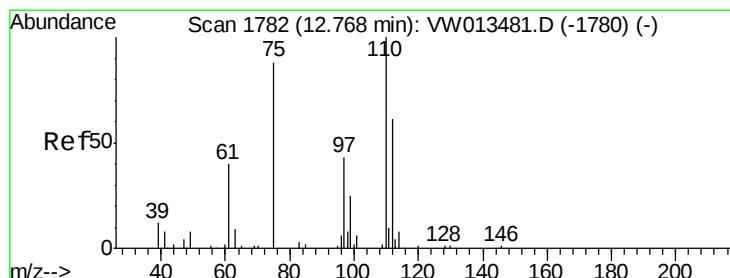
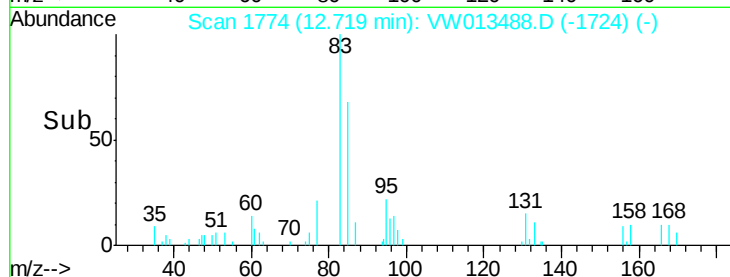
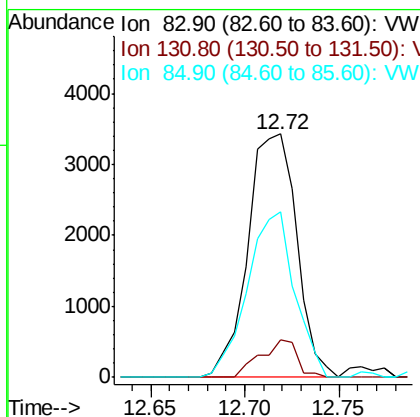
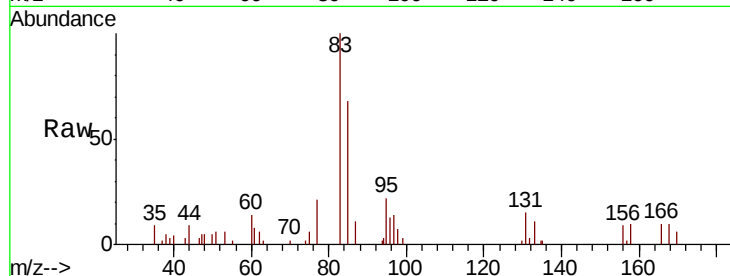
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion:	83	Resp:	6161
Ion	Ratio	Lower	Upper
83	100		
131	11.5	5.9	17.7
85	65.8	32.5	97.4

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#76

1,2,3-Trichloropropane

Concen: 1.862 ug/l m

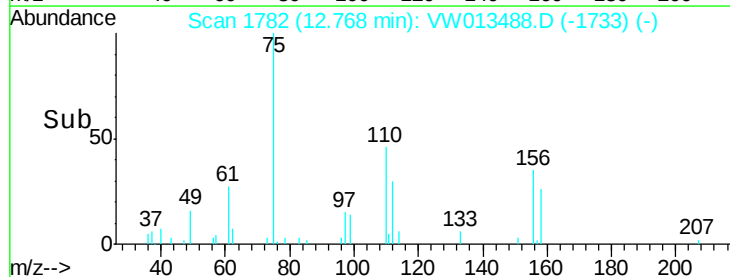
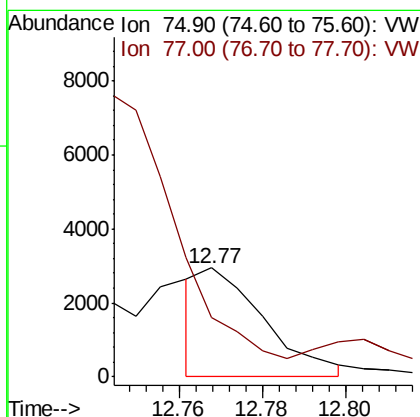
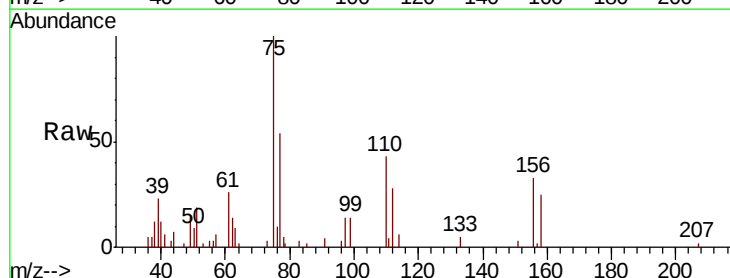
RT: 12.77 min Scan# 1782

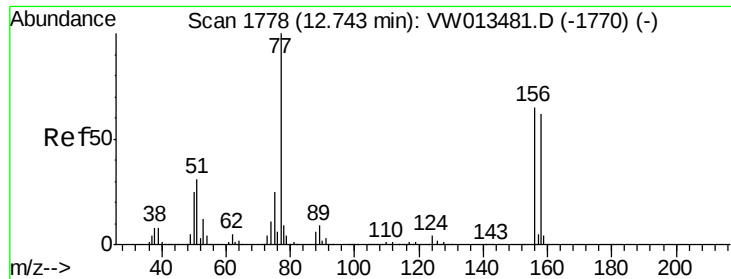
Delta R.T. 0.00 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

Tgt Ion:	75	Resp:	3157
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





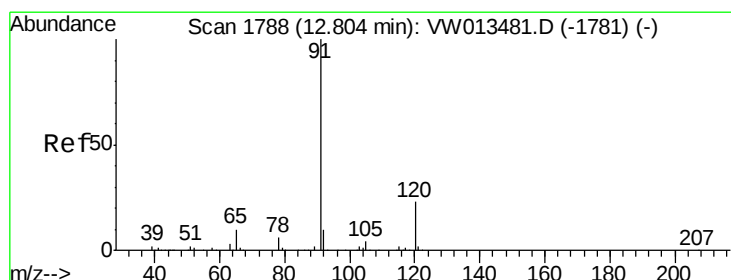
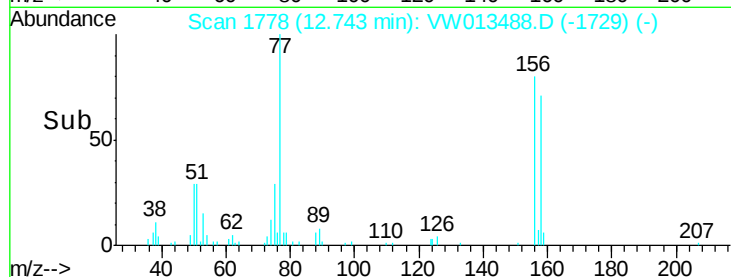
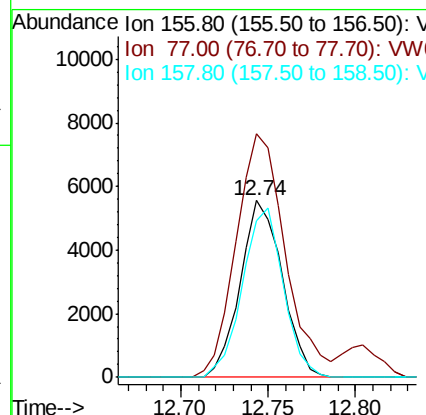
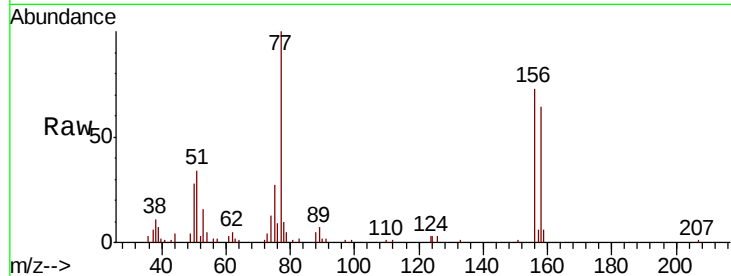
#77
Bromobenzene
Concen: 2.685 ug/l
RT: 12.74 min Scan# 1778
Delta R.T. 0.00 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	161.8	83.7	251.0	
158	93.2	49.0	147.0	

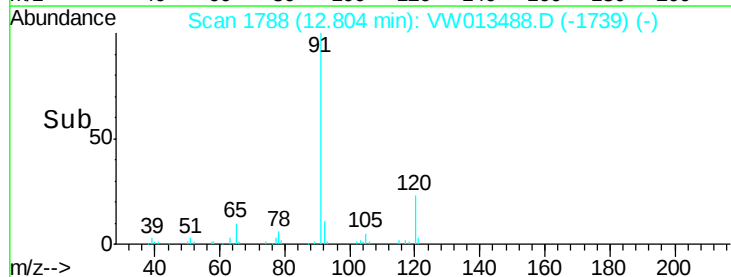
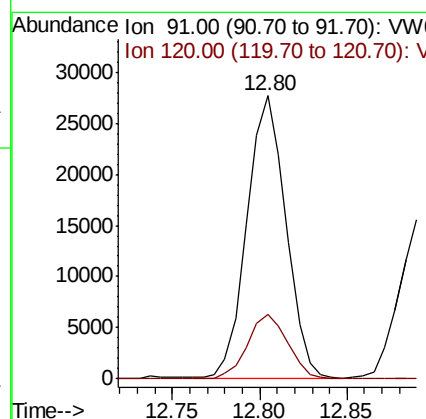
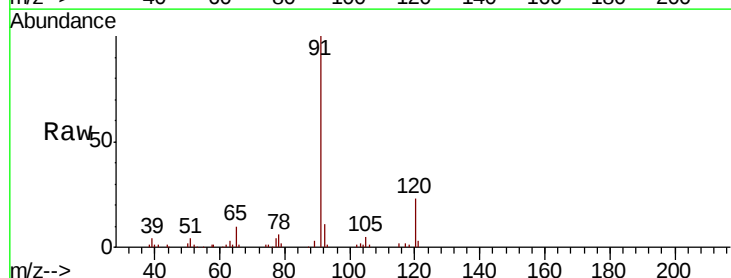
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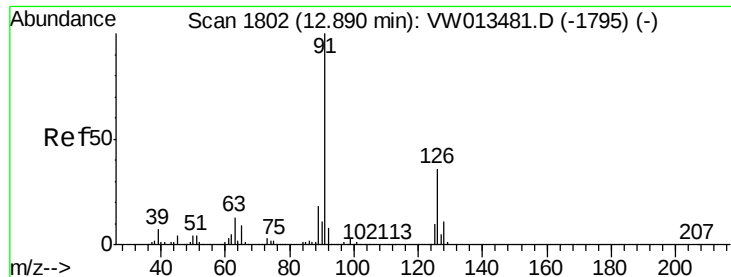
MMDadoda
10/9/2019 4:09:55 PM



#78
n-propylbenzene
Concen: 2.554 ug/l
RT: 12.80 min Scan# 1788
Delta R.T. 0.00 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	23.2	11.7	35.1	





#79

2-Chlorotoluene

Concen: 2.568 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

Instrument :

MSVOA_W

ClientSampled :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 91 Resp: 24258

Ion Ratio Lower Upper

91 100

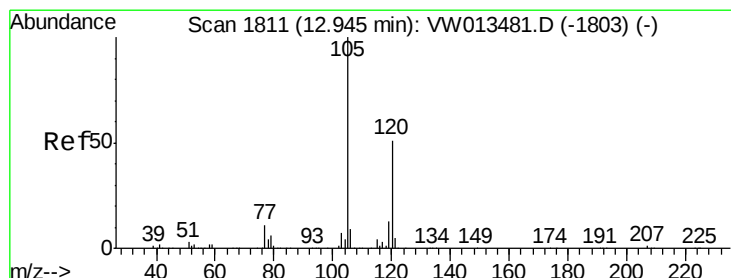
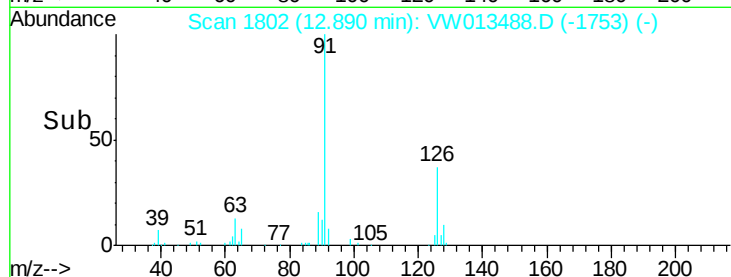
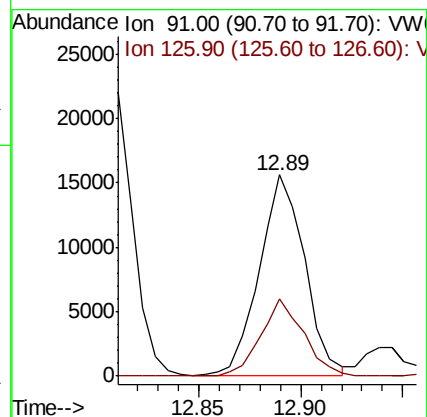
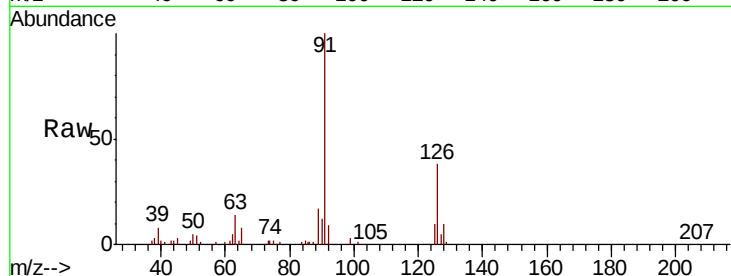
126 36.2 17.8 53.4

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 2.534 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW013488.D

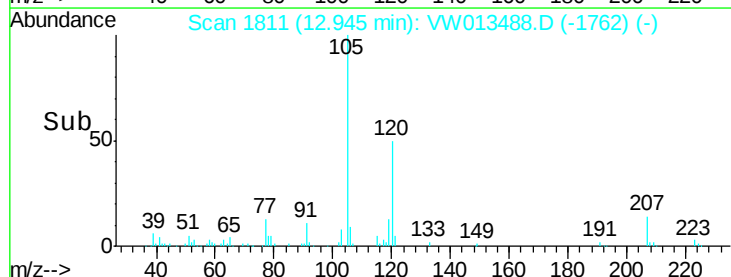
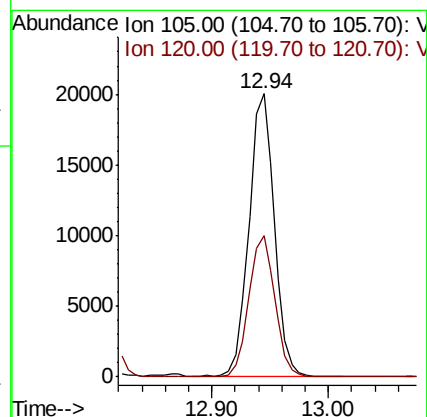
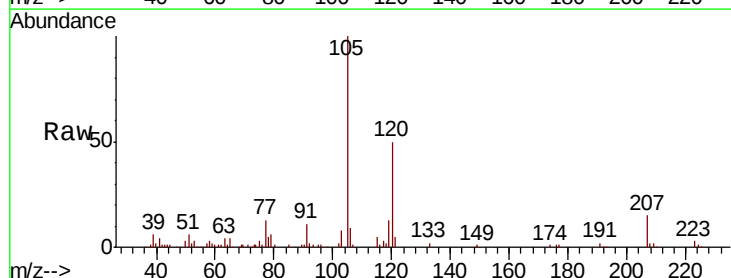
Acq: 08 Oct 2019 15:53

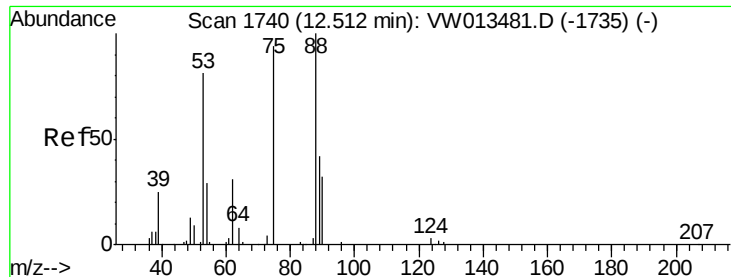
Tgt Ion: 105 Resp: 30703

Ion Ratio Lower Upper

105 100

120 50.9 25.4 76.0





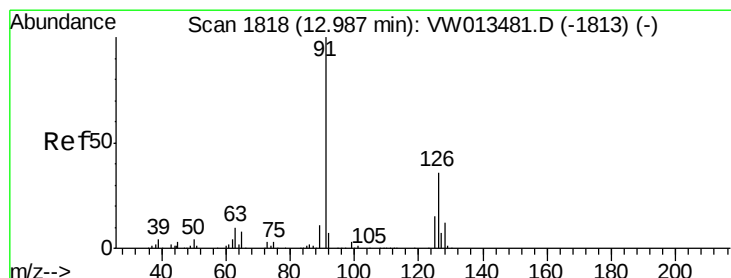
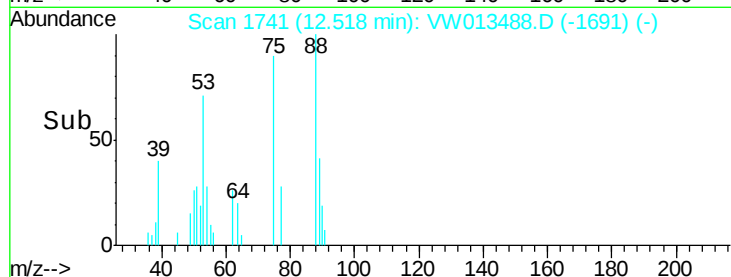
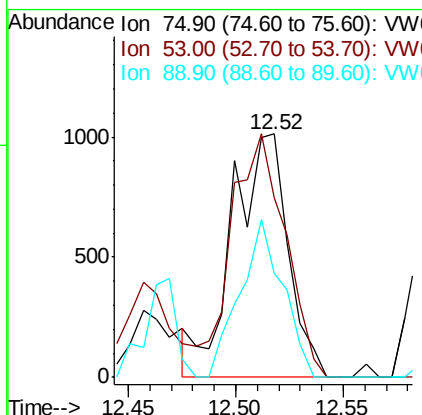
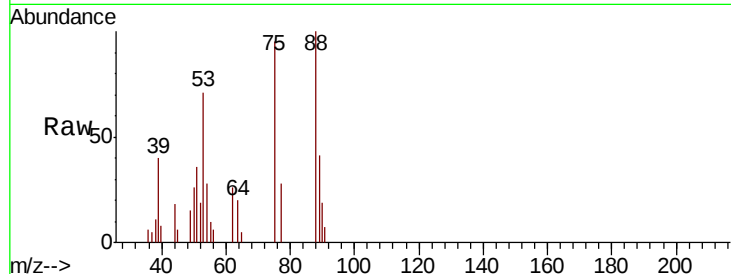
#81
trans-1,4-Dichloro-2-butene
Concen: 2.188 ug/l m
RT: 12.52 min Scan# 1741
Delta R.T. 0.01 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	71.0	106.6#
89	34.2	36.1	54.1#

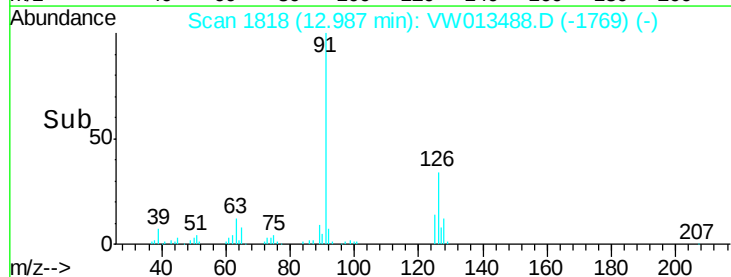
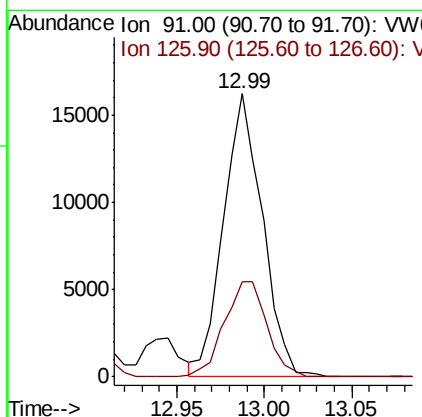
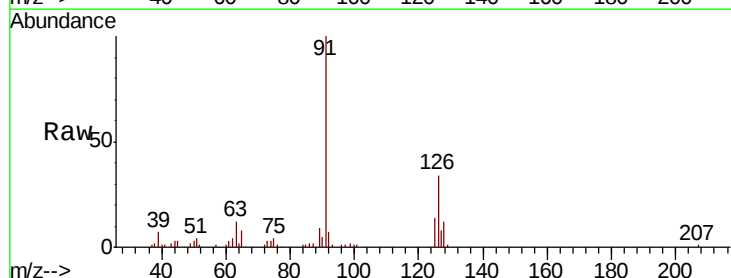
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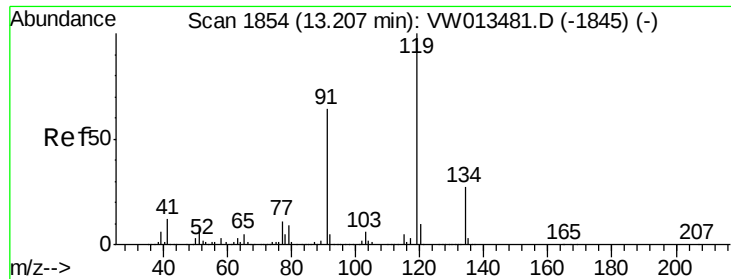
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#82
4-Chlorotoluene
Concen: 2.559 ug/l
RT: 12.99 min Scan# 1818
Delta R.T. 0.00 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Tgt Ion	Ratio	Lower	Upper
91	100		
126	37.0	17.5	52.6





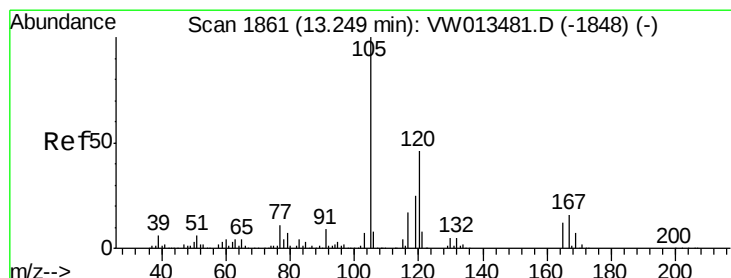
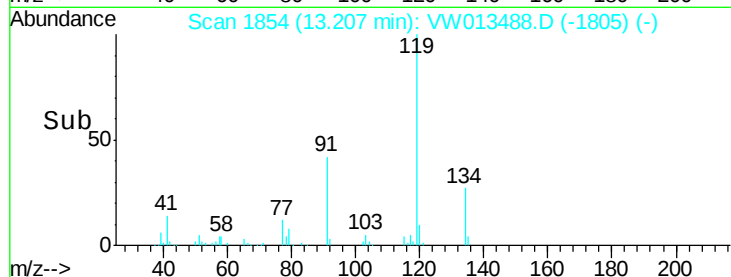
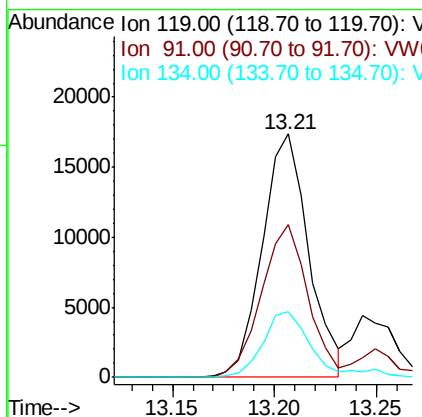
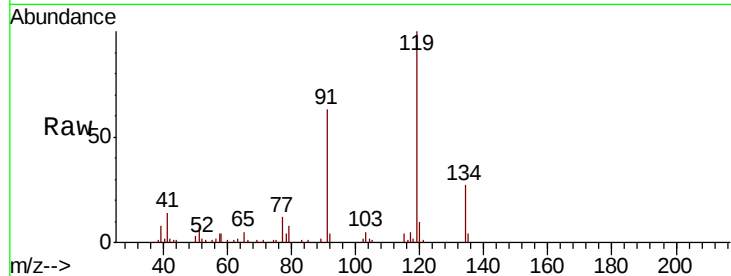
#83
tert-Butylbenzene
Concen: 2.558 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
119	100	27530		
91	62.7		30.6	91.6
134	28.9		13.8	41.3

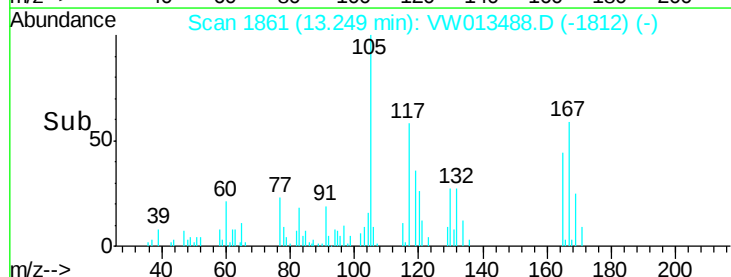
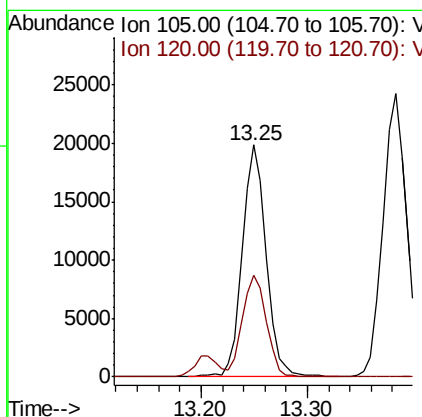
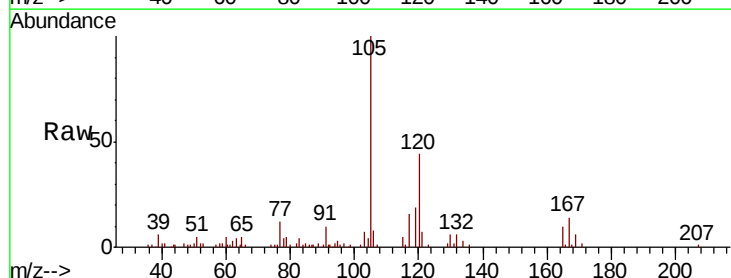
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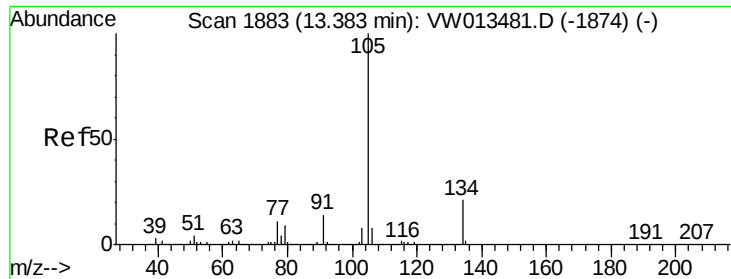
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#84
1,2,4-Trimethylbenzene
Concen: 2.611 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	31290		
120	43.6		23.2	69.5





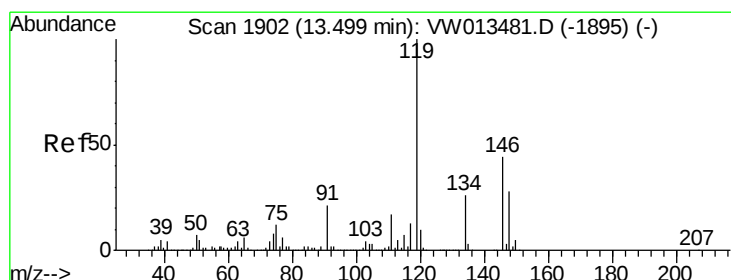
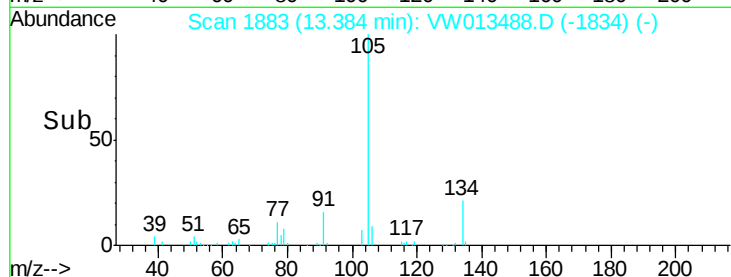
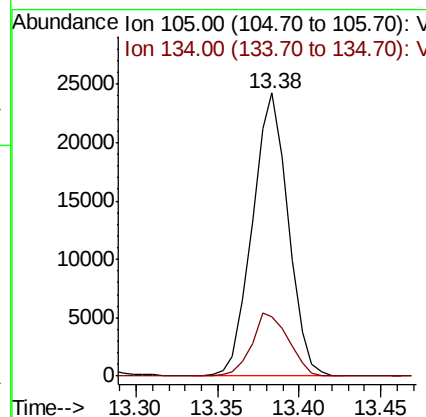
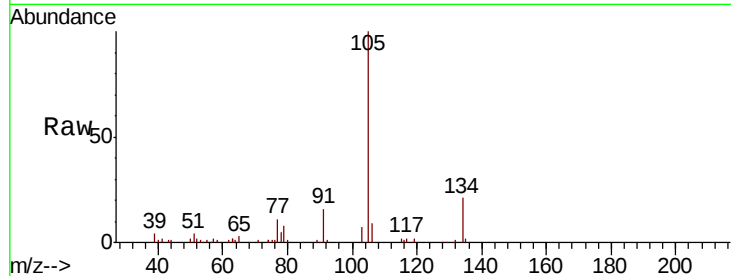
#85
 sec-Butylbenzene
 Concen: 2.490 ug/l
 RT: 13.38 min Scan# 1883
 Delta R.T. 0.00 min
 Lab File: VW013488.D
 Acq: 08 Oct 2019 15:53

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
105	100		
134	23.0	10.4	31.4

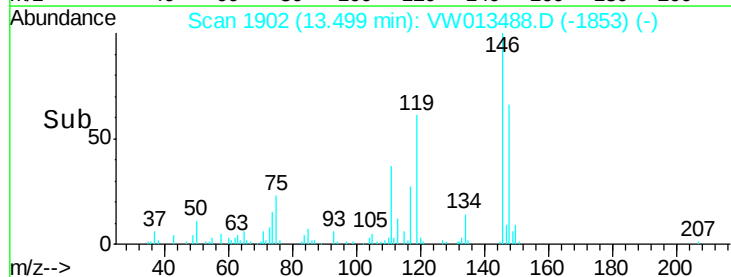
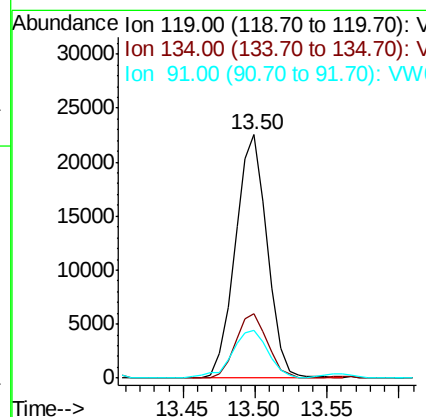
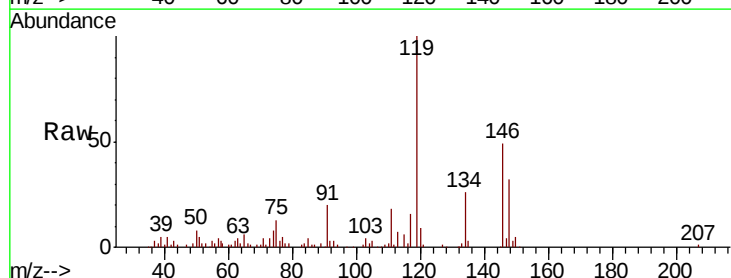
Manual Integrations
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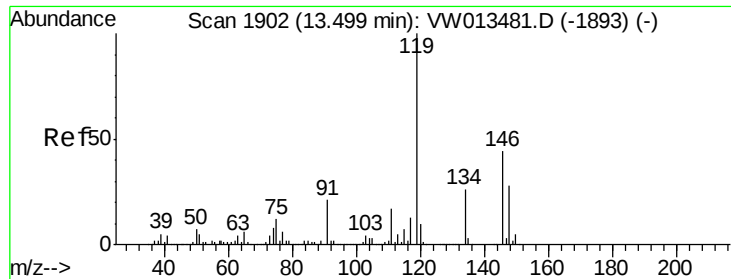
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#86
 p-Isopropyltoluene
 Concen: 2.542 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW013488.D
 Acq: 08 Oct 2019 15:53

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.5	13.1	39.1
91	22.4	10.8	32.3





#87

1,3-Dichlorobenzene

Concen: 2.768 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

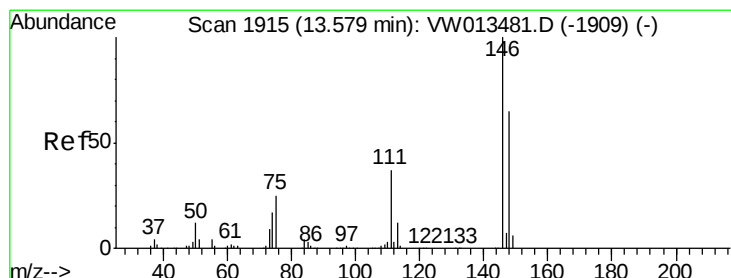
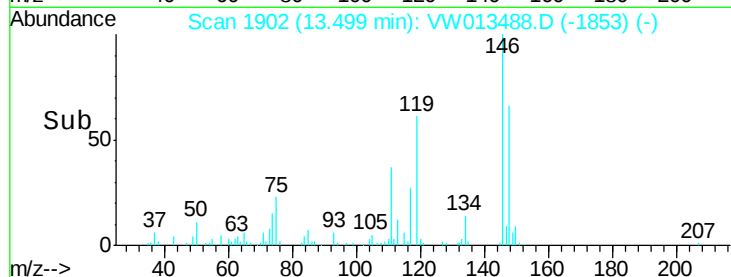
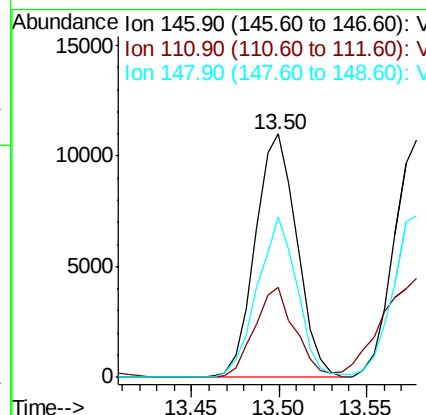
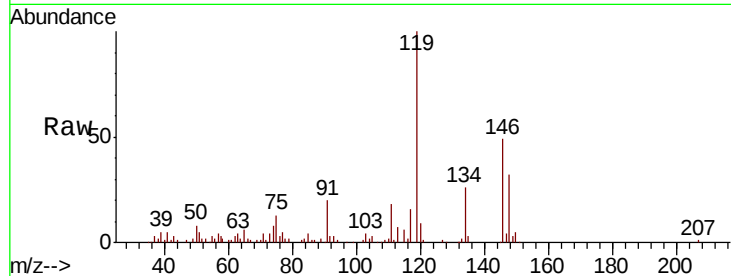
Instrument :
MSVOA_W

ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.2	18.7	56.1
148	63.3	32.3	96.8

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#88

1,4-Dichlorobenzene

Concen: 2.753 ug/l

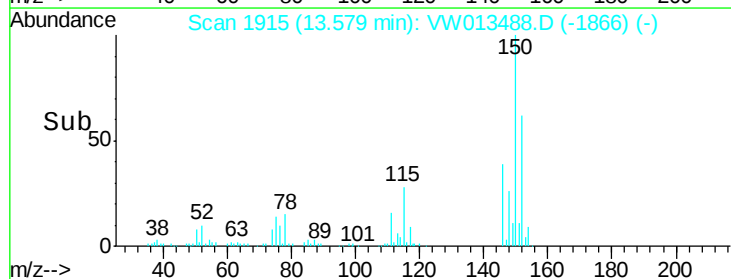
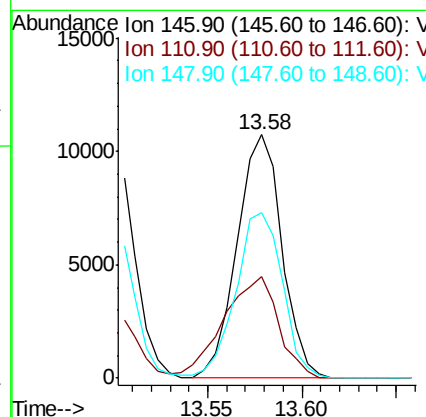
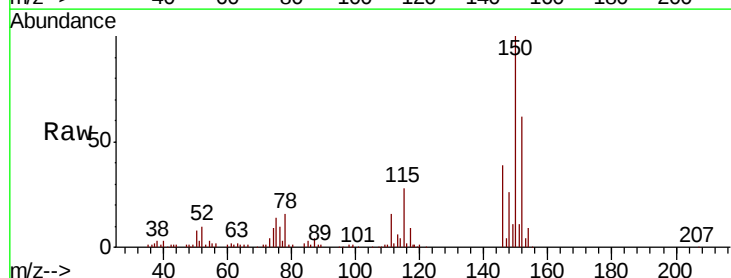
RT: 13.58 min Scan# 1915

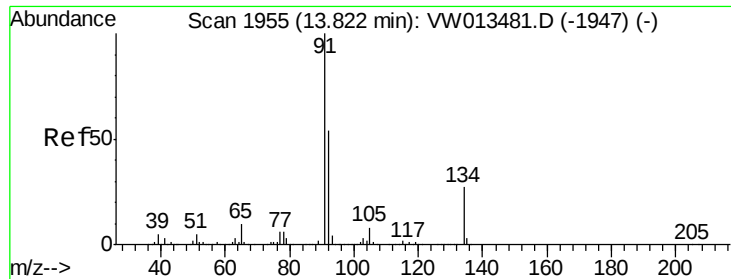
Delta R.T. 0.00 min

Lab File: VW013488.D

Acq: 08 Oct 2019 15:53

Tgt Ion	Ratio	Lower	Upper
146	100		
111	51.6	18.4	55.4
148	70.8	32.0	96.2





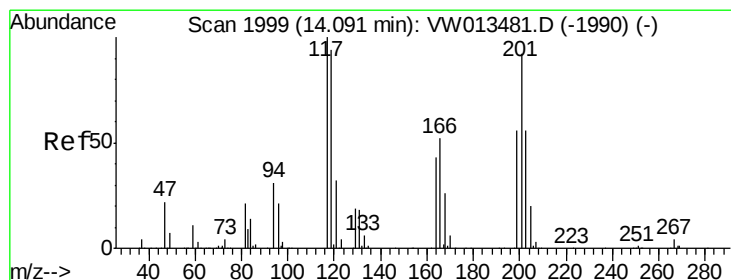
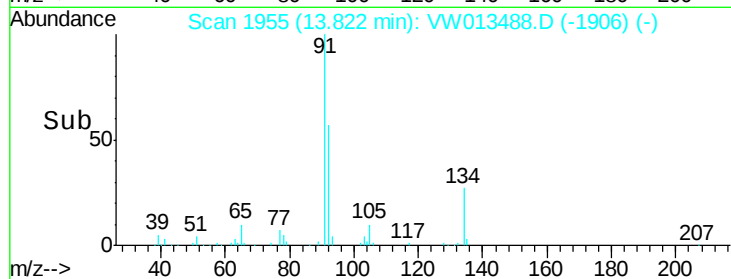
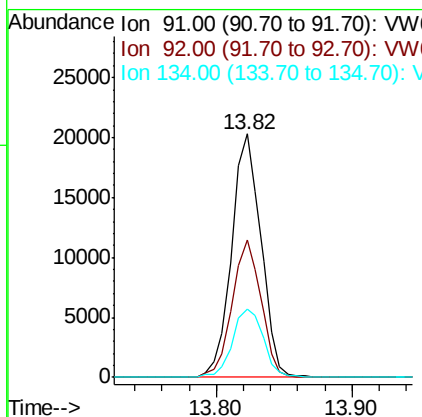
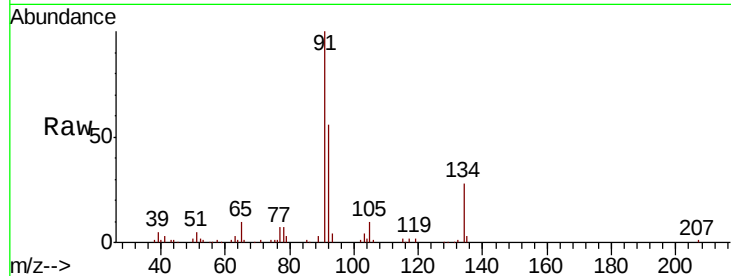
#89
n-Butylbenzene
Concen: 2.469 ug/l
RT: 13.82 min Scan# 1955
Delta R.T. 0.00 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
91	100		
92	55.4	27.5	82.4
134	29.7	13.8	41.3

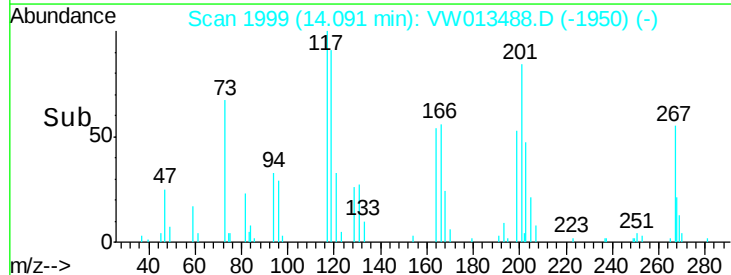
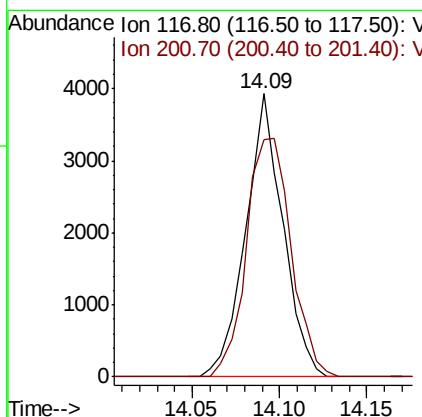
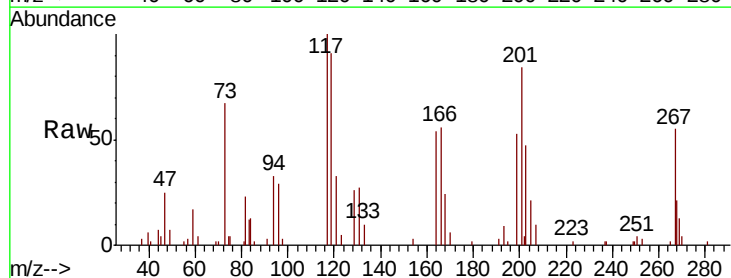
Manual Integrations
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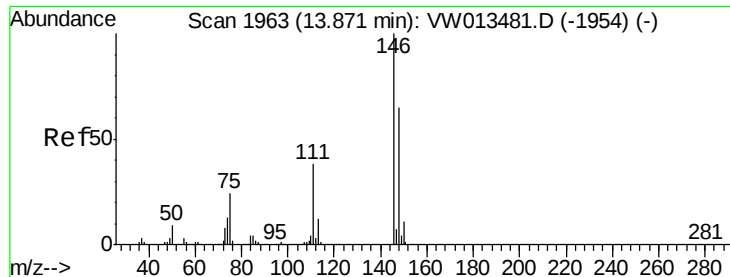
MMDadoda
10/9/2019 4:09:55 PM



#90
Hexachloroethane
Concen: 2.472 ug/l
RT: 14.09 min Scan# 1999
Delta R.T. 0.00 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Tgt Ion	Ratio	Lower	Upper
117	100		
201	101.7	46.9	140.7





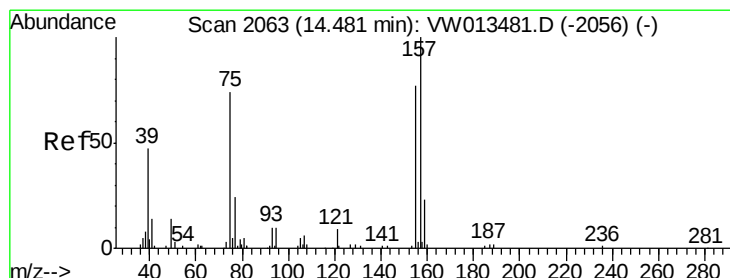
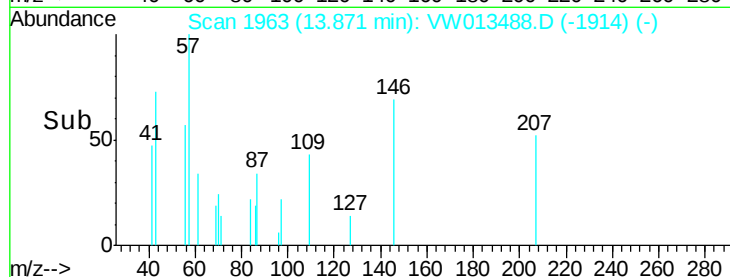
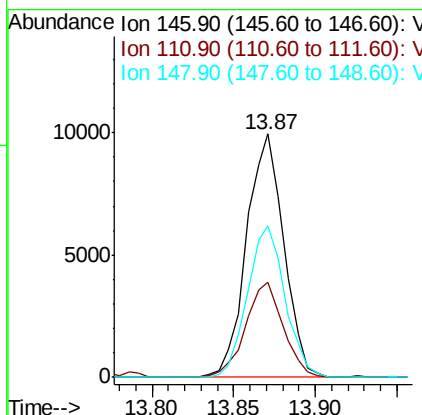
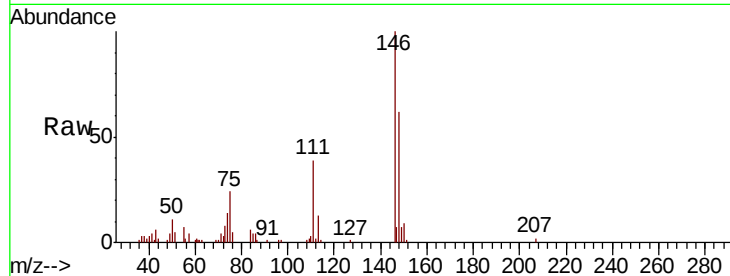
#91
 1,2-Dichlorobenzene
 Concen: 2.733 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW013488.D
 Acq: 08 Oct 2019 15:53

Instrument :
 MSVOA_W
 ClientSampleID :
 LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.6	19.4	58.2
148	62.8	31.8	95.3

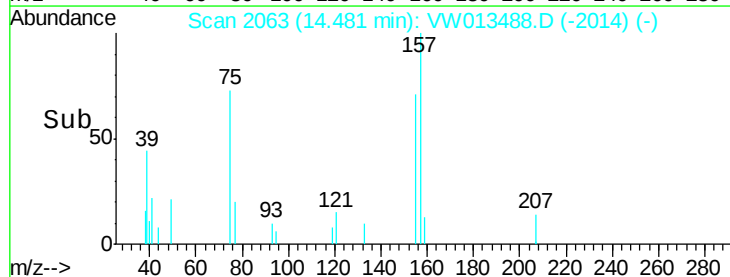
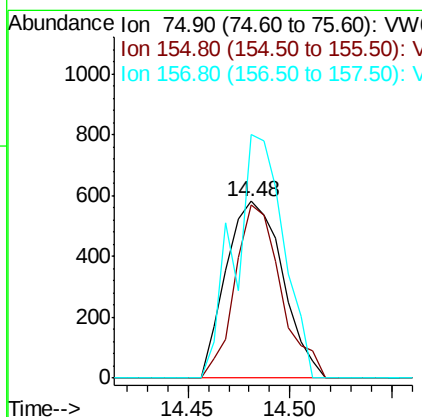
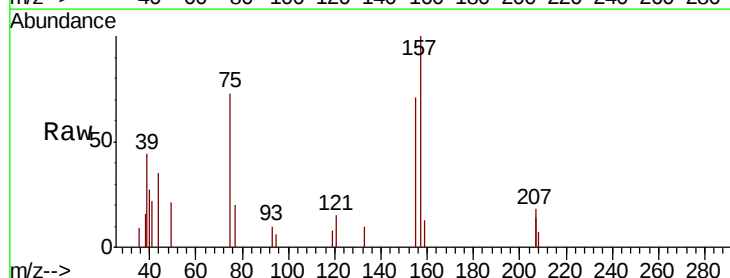
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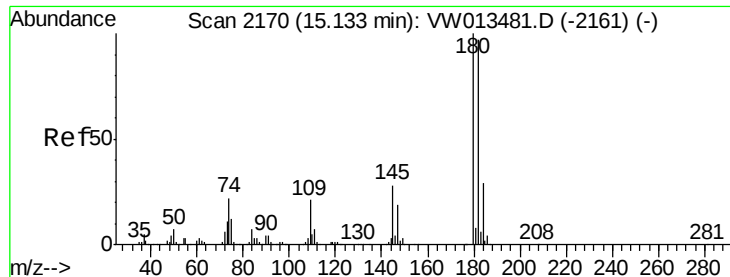
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.819 ug/l
 RT: 14.48 min Scan# 2063
 Delta R.T. 0.00 min
 Lab File: VW013488.D
 Acq: 08 Oct 2019 15:53

Tgt Ion	Ratio	Lower	Upper
75	100		
155	79.9	51.0	153.1
157	120.3	65.9	197.7





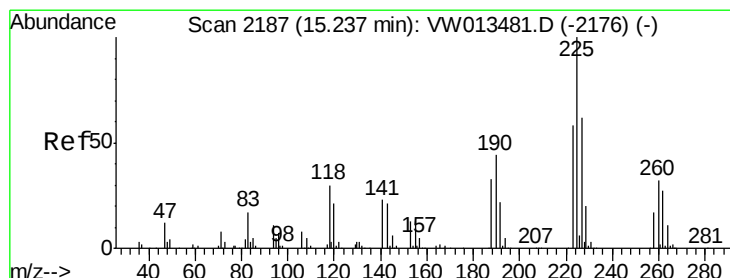
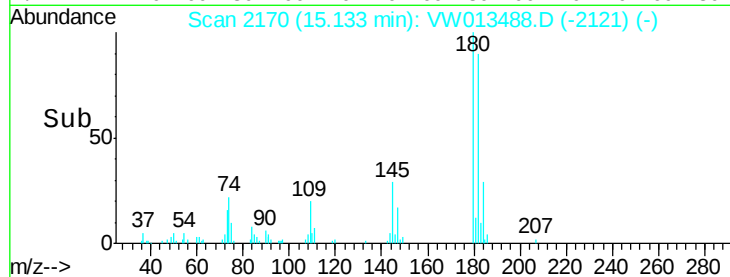
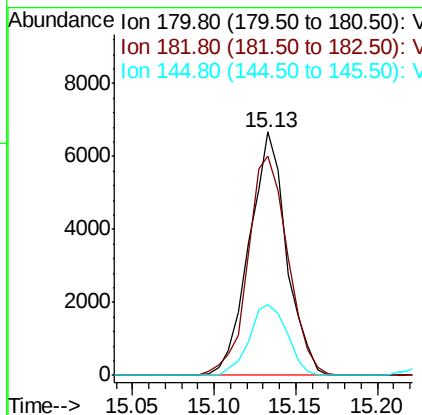
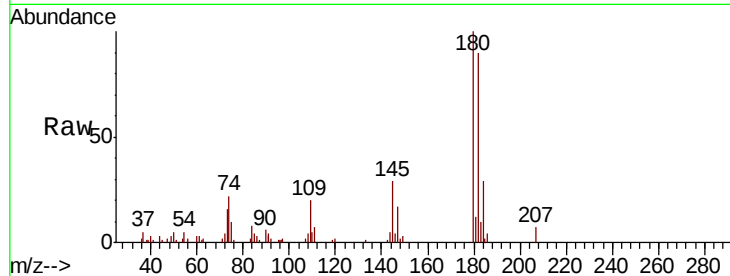
#93
 1,2,4-Trichlorobenzene
 Concen: 2.595 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW013488.D
 Acq: 08 Oct 2019 15:53

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
180	100	10615		
182	96.7	47.7	143.1	
145	29.6	14.0	41.9	

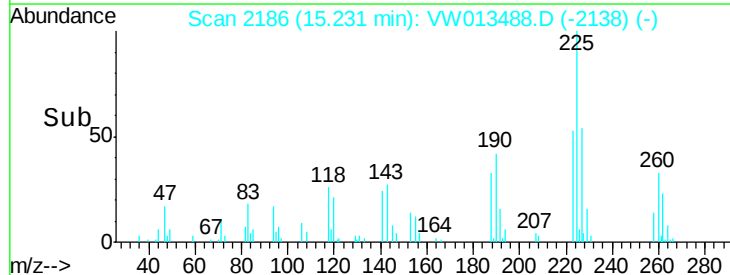
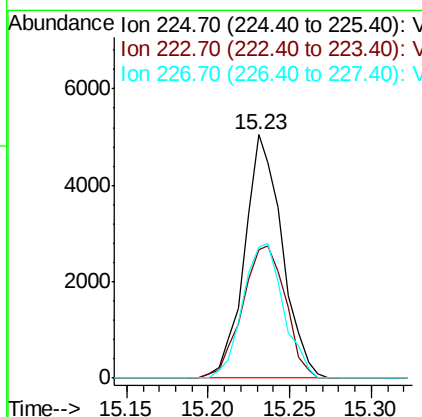
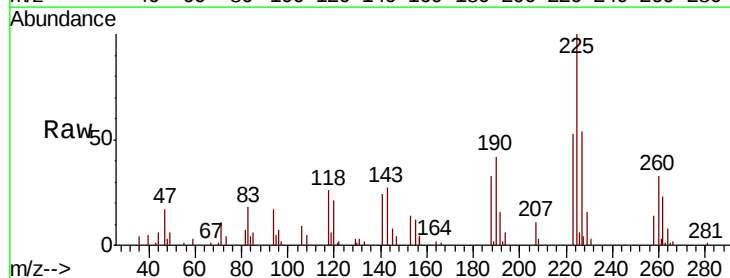
Manual Integrations
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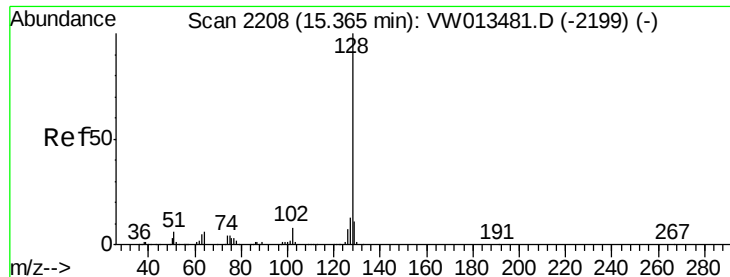
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#94
 Hexachlorobutadiene
 Concen: 2.968 ug/l
 RT: 15.23 min Scan# 2186
 Delta R.T. -0.01 min
 Lab File: VW013488.D
 Acq: 08 Oct 2019 15:53

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	8067		
223	62.5	30.3	90.9	
227	59.8	32.0	96.0	





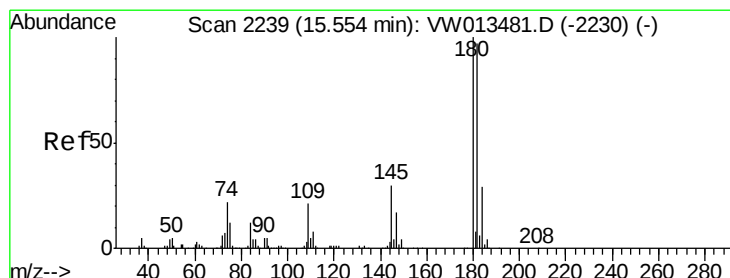
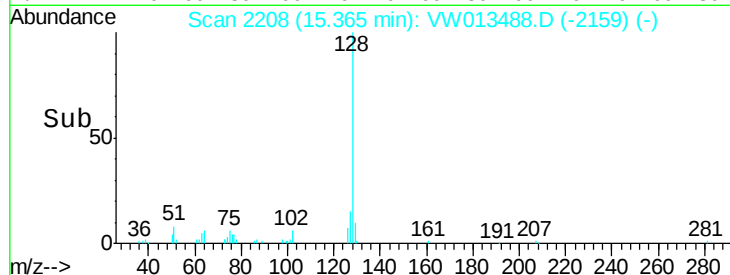
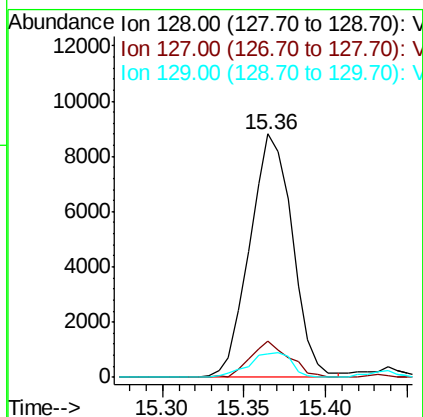
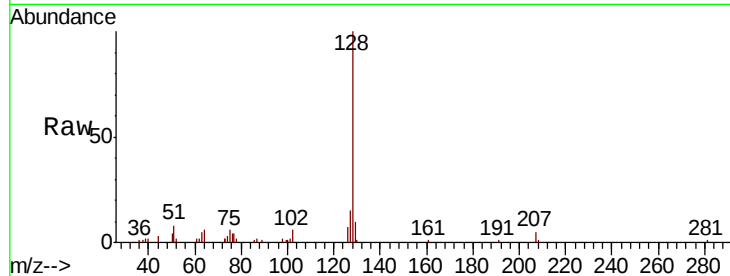
#95
Naphthalene
Concen: 2.272 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. 0.00 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.6	16.0
129	10.1	8.8	13.2

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 2.614 ug/l
RT: 15.56 min Scan# 2240
Delta R.T. 0.01 min
Lab File: VW013488.D
Acq: 08 Oct 2019 15:53

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.7	47.7	143.1
145	30.6	14.9	44.9

