

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW030920\
 Data File : VW015102.D
 Acq On : 09 Mar 2020 17:23
 Operator : SY/VA
 Sample : L1161-01 2.5PPBL0D
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2020

Manual Integrations
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 3/11/2020 3:24:11 PM

Quant Time: Mar 10 18:32:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W030920S.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 09 18:51:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	399760	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	775922	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	679976	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	286159	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	333560	56.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.50%	
35) Dibromofluoromethane	7.88	113	243971	52.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.04%	
50) Toluene-d8	10.32	98	1013316	52.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.18%	
62) 4-Bromofluorobenzene	12.62	95	324304	50.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.38%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	5466	2.255	ug/l	96
3) Chloromethane	2.21	50	16310	3.135	ug/l	91
4) Vinyl Chloride	2.36	62	17500	2.570	ug/l	99
5) Bromomethane	2.78	94	10784	2.770	ug/l	84
6) Chloroethane	2.93	64	10037	2.545	ug/l	93
7) Trichlorofluoromethane	3.26	101	9337	2.740	ug/l	95
8) Diethyl Ether	3.69	74	7100	2.734	ug/l	76
9) 1,1,2-Trichlorotrifluoroet	4.07	101	14515	2.794	ug/l	99
10) Methyl Iodide	4.27	142	14378	2.488	ug/l	96
11) Tert butyl alcohol	5.15	59	11350	33.599	ug/l #	70
12) 1,1-Dichloroethene	4.04	96	13727	2.703	ug/l	84
13) Acrolein	3.89	56	7733	15.652	ug/l	98
14) Allyl chloride	4.67	41	26499	2.603	ug/l	99
15) Acrylonitrile	5.37	53	19408	14.581	ug/l	98
16) Acetone	4.12	43	26768	19.968	ug/l	99
17) Carbon Disulfide	4.39	76	46740	2.595	ug/l	95
18) Methyl Acetate	4.67	43	10033	3.157	ug/l	99
19) Methyl tert-butyl Ether	5.42	73	18750	2.884	ug/l	93
20) Methylene Chloride	4.91	84	31488	5.074	ug/l	96
21) trans-1,2-Dichloroethene	5.42	96	15010	2.783	ug/l	85
22) Diisopropyl ether	6.31	45	44591	2.283	ug/l #	88
23) Vinyl Acetate	6.25	43	133055	11.541	ug/l	99
24) 1,1-Dichloroethane	6.21	63	30872	2.711	ug/l	99
25) 2-Butanone	7.18	43	29671	16.146	ug/l	97
26) 2,2-Dichloropropane	7.16	77	23559	3.617	ug/l	90
27) cis-1,2-Dichloroethene	7.17	96	14798	2.636	ug/l	82
28) Bromochloromethane	7.51	49	14600	2.675	ug/l #	98
29) Tetrahydrofuran	7.52	42	15082	13.121	ug/l	99
30) Chloroform	7.68	83	28632	2.833	ug/l	97
31) Cyclohexane	7.95	56	41242	3.521	ug/l #	72
32) 1,1,1-Trichloroethane	7.87	97	20965	2.657	ug/l	98
36) 1,1-Dichloropropene	8.09	75	22592	2.511	ug/l	98
37) Ethyl Acetate	7.26	43	15485	3.453	ug/l #	95
38) Carbon Tetrachloride	8.06	117	17984	2.455	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	24493	2.381	ug/l	98
40) Benzene	8.32	78	66317	2.652	ug/l	99
41) Methacrylonitrile	7.48	41	6327	2.668	ug/l	94
42) 1,2-Dichloroethane	8.40	62	20698	2.717	ug/l	98
43) Isopropyl Acetate	8.43	43	21535	2.679	ug/l	98
44) Trichloroethene	9.09	130	13347	2.507	ug/l	96
45) 1,2-Dichloropropane	9.37	63	16976	2.521	ug/l	99
46) Dibromomethane	9.46	93	8064	2.754	ug/l	98
47) Bromodichloromethane	9.64	83	18998	2.430	ug/l	98
48) Methyl methacrylate	9.43	41	8104	2.184	ug/l #	85
49) 1,4-Dioxane	9.44	88	2288	51.035	ug/l #	77
51) 4-Methyl-2-Pentanone	10.21	43	60750	13.680	ug/l	98
52) Toluene	10.38	92	37115	2.584	ug/l	100
53) t-1,3-Dichloropropene	10.60	75	18427	2.396	ug/l	95
54) cis-1,3-Dichloropropene	10.07	75	21650	2.311	ug/l	94
55) 1,1,2-Trichloroethane	10.79	97	10882	2.712	ug/l	97
56) Ethyl methacrylate	10.65	69	11521	2.225	ug/l	95
57) 1,3-Dichloropropane	10.93	76	19187	2.512	ug/l	94
58) 2-Chloroethyl Vinyl ether	9.92	63	35026	11.530	ug/l	97
59) 2-Hexanone	10.97	43	31766	11.452	ug/l	98
60) Dibromochloromethane	11.12	129	10108	2.439	ug/l	96
61) 1,2-Dibromoethane	11.23	107	9634	2.708	ug/l	97
64) Tetrachloroethene	10.86	164	10222	2.605	ug/l	93
65) Chlorobenzene	11.66	112	34692	2.542	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.73	131	11214	2.467	ug/l	95
67) Ethyl Benzene	11.73	91	63913	2.406	ug/l	97
68) m/p-Xylenes	11.84	106	41839	4.456	ug/l	100
69) o-Xylene	12.16	106	18878	2.232	ug/l	98
70) Styrene	12.18	104	29902	2.063	ug/l	99
71) Bromoform	12.35	173	5039	2.498	ug/l #	99
73) Isopropylbenzene	12.46	105	48568	2.222	ug/l	99
74) N-amyl acetate	12.27	43	14447	2.236	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.71	83	14053	3.166	ug/l	95
76) 1,2,3-Trichloropropane	12.76	75	10229m	3.163	ug/l	
77) Bromobenzene	12.74	156	11997	2.777	ug/l	96
78) n-propylbenzene	12.80	91	72310	2.545	ug/l	97
79) 2-Chlorotoluene	12.89	91	41720	2.612	ug/l	99
80) 1,3,5-Trimethylbenzene	12.94	105	43840	2.333	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.51	75	3512m	2.453	ug/l	
82) 4-Chlorotoluene	12.99	91	43170	2.538	ug/l	98
83) tert-Butylbenzene	13.21	119	35616	2.339	ug/l	99
84) 1,2,4-Trimethylbenzene	13.25	105	41954	2.232	ug/l	96
85) sec-Butylbenzene	13.38	105	53396	2.317	ug/l	97
86) p-Isopropyltoluene	13.49	119	43613	2.202	ug/l	99
87) 1,3-Dichlorobenzene	13.49	146	24013	2.623	ug/l	99
88) 1,4-Dichlorobenzene	13.57	146	25792	2.861	ug/l	87
89) n-Butylbenzene	13.82	91	49083	2.298	ug/l	97
90) Hexachloroethane	14.08	117	10730	2.701	ug/l	98
91) 1,2-Dichlorobenzene	13.87	146	21486	2.680	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.48	75	2094	2.938	ug/l	94

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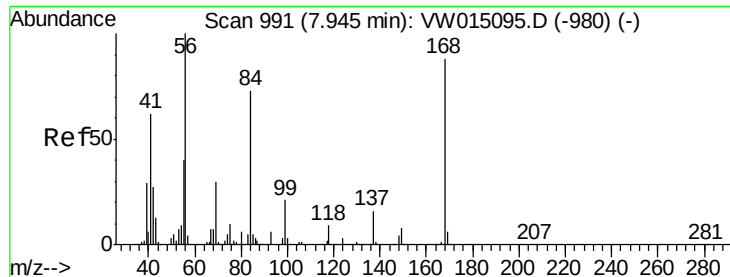
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	9420	2.053	ug/l	99
94) Hexachlorobutadiene	15.24	225	7294	2.532	ug/l	98
95) Naphthalene	15.36	128	13973	1.631	ug/l	96
96) 1,2,3-Trichlorobenzene	15.55	180	8726	2.144	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: VW015102.D

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Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion:168 Resp: 399760

Ion Ratio Lower Upper

168 100

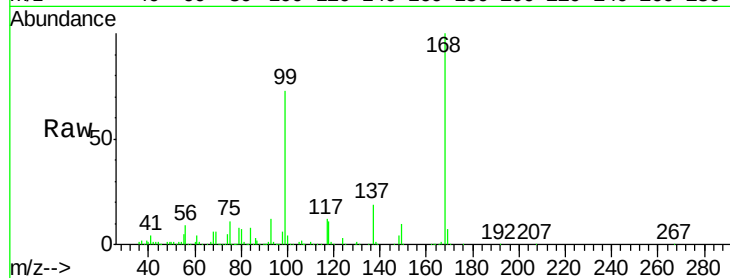
99 73.0 57.2 85.8

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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

200000

150000

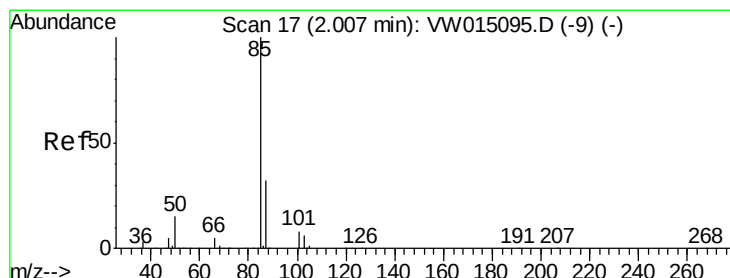
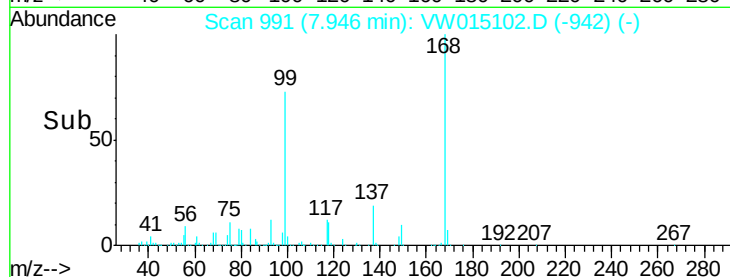
100000

50000

0

7.90 8.00

Time-->



#2

Dichlorodifluoromethane

Concen: 2.255 ug/l

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW015102.D

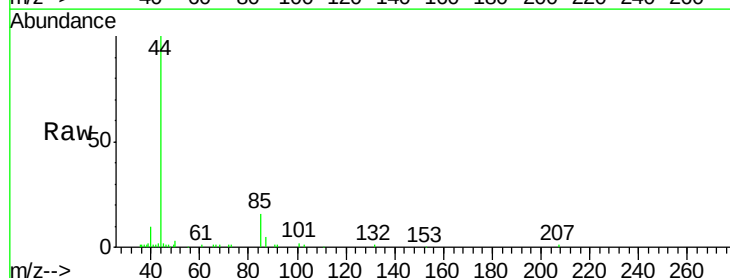
Acq: 09 Mar 2020 17:23

Tgt Ion: 85 Resp: 5466

Ion Ratio Lower Upper

85 100

87 29.9 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

2000

1500

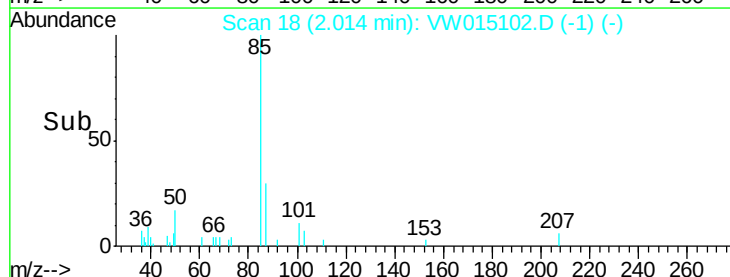
1000

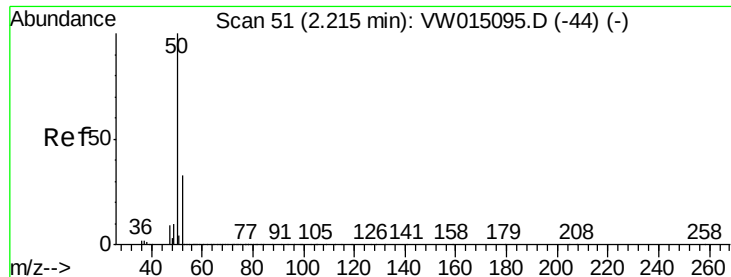
500

0

1.90 1.95 2.00 2.05 2.10

Time-->





#3

Chloromethane

Concen: 3.135 ug/l

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion: 50 Resp: 16310

Ion Ratio Lower Upper

50 100

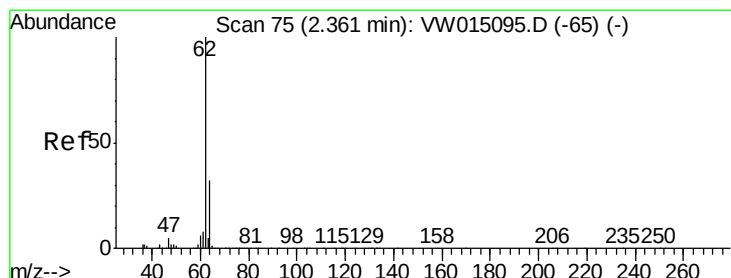
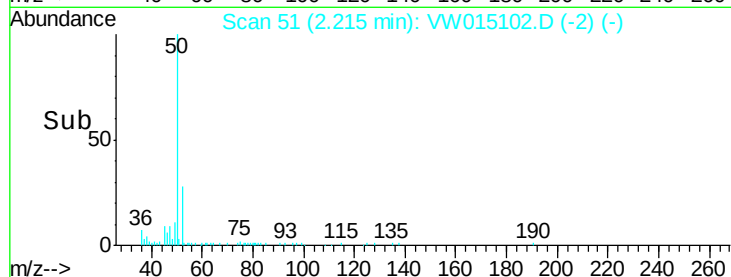
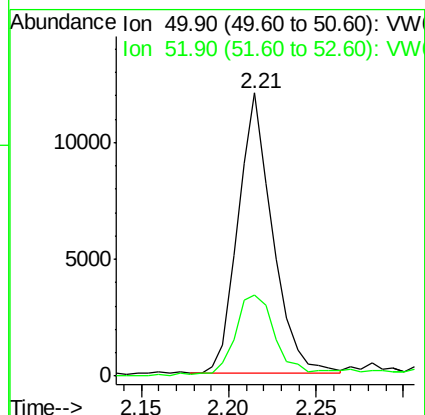
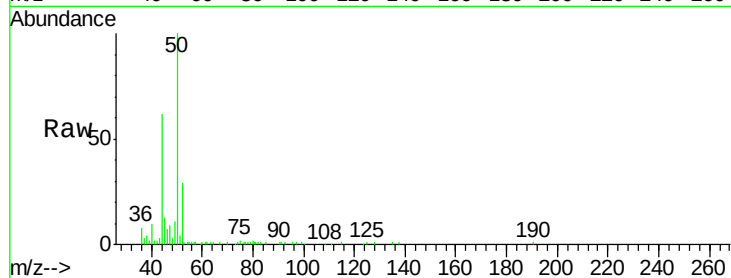
52 28.3 26.6 40.0

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#4

Vinyl Chloride

Concen: 2.570 ug/l

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW015102.D

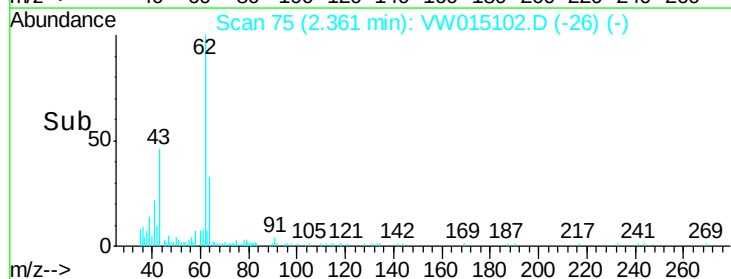
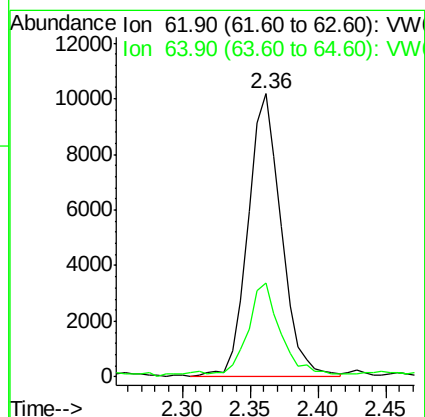
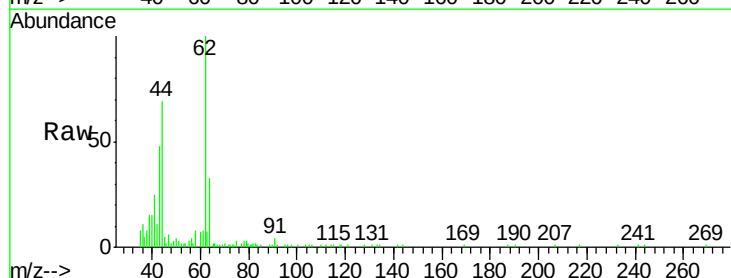
Acq: 09 Mar 2020 17:23

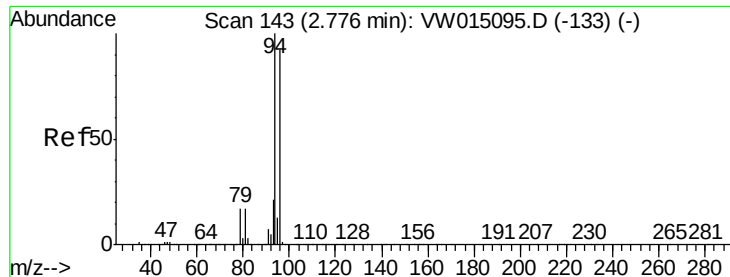
Tgt Ion: 62 Resp: 17500

Ion Ratio Lower Upper

62 100

64 32.1 25.3 37.9





#5

Bromomethane

Concen: 2.770 ug/l

RT: 2.78 min Scan# 144

Delta R.T. 0.01 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

Instrument :

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Tot Ion: 94 Resp: 10784

Ion Ratio Lower Upper

94 100

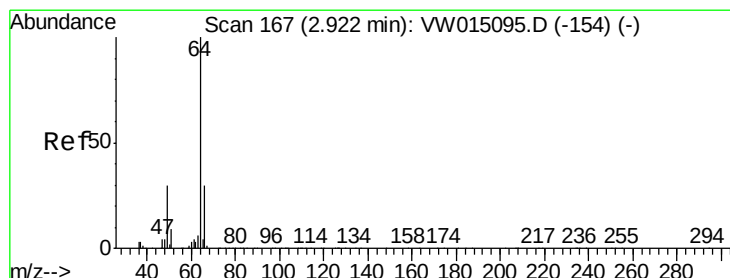
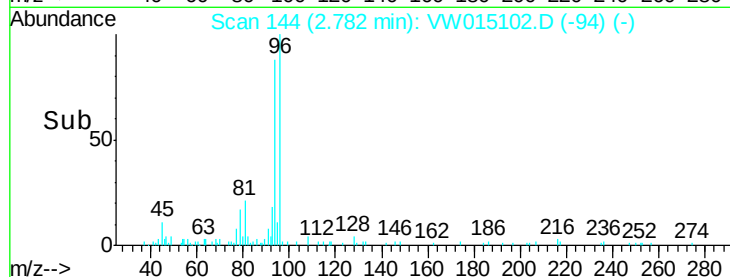
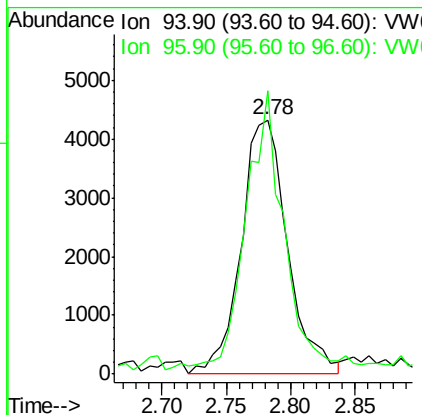
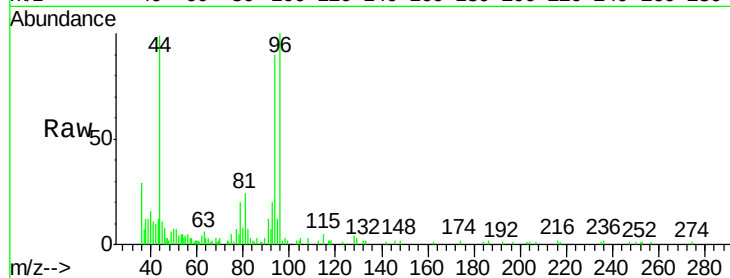
96 108.0 74.0 111.0

Manual Integrations

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#6

Chloroethane

Concen: 2.545 ug/l

RT: 2.93 min Scan# 168

Delta R.T. 0.01 min

Lab File: VW015102.D

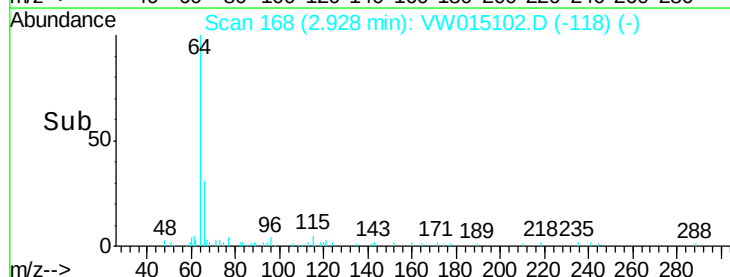
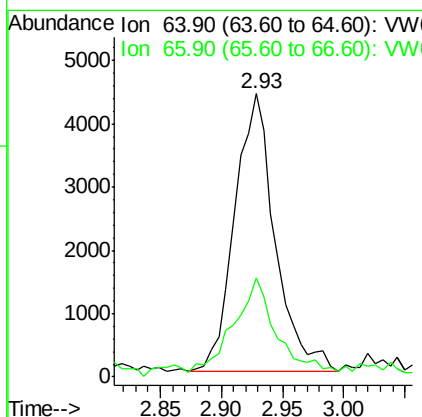
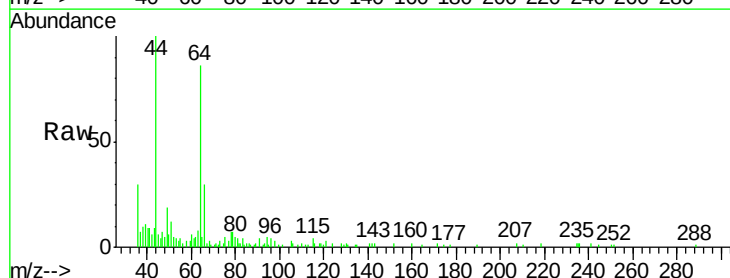
Acq: 09 Mar 2020 17:23

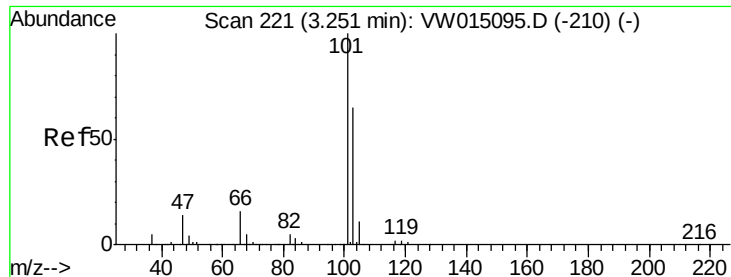
Tgt Ion: 64 Resp: 10037

Ion Ratio Lower Upper

64 100

66 33.9 24.2 36.2





#7

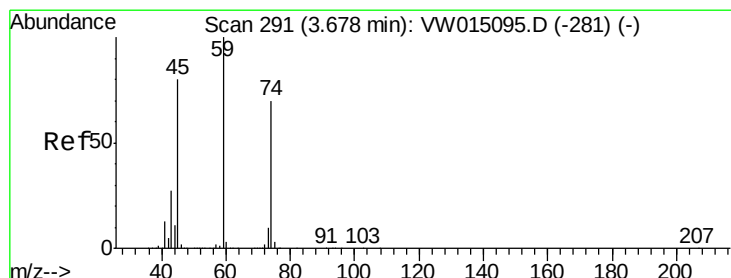
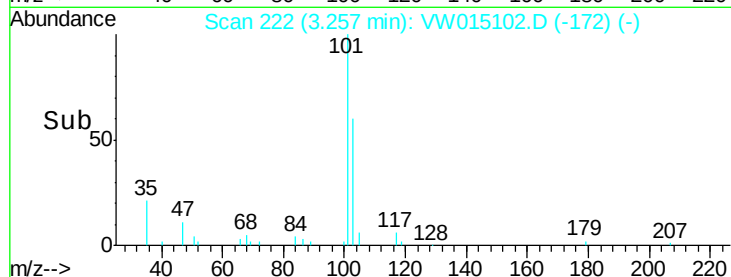
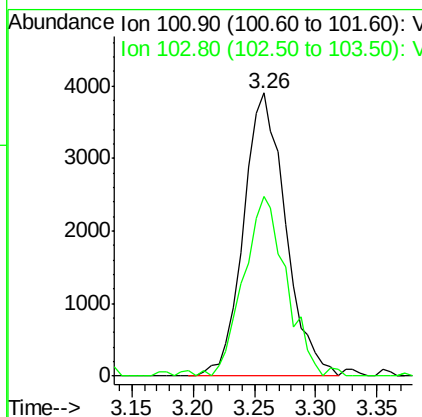
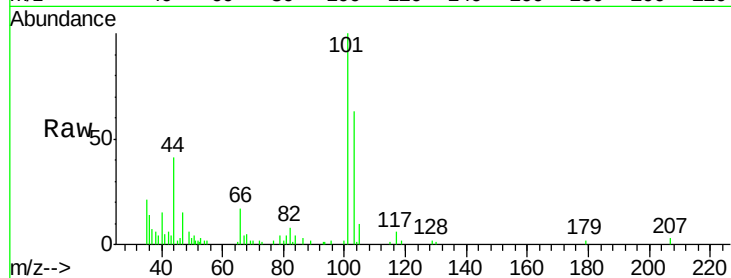
Trichlorofluoromethane
 Concen: 2.740 ug/l
 RT: 3.26 min Scan# 222
 Delta R.T. 0.01 min
 Lab File: VW015102.D
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Tot Ion	Ratio	Lower	Upper
101	100		
103	61.1	51.8	77.6

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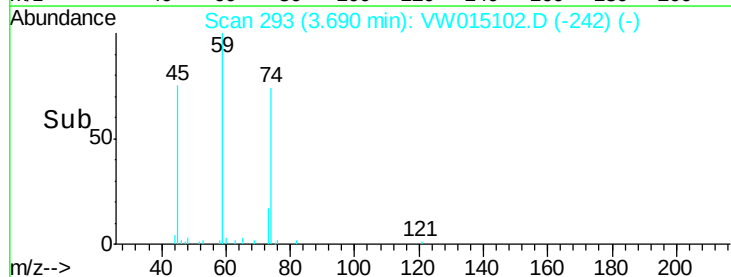
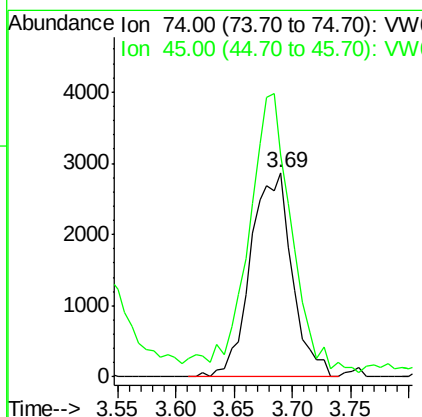
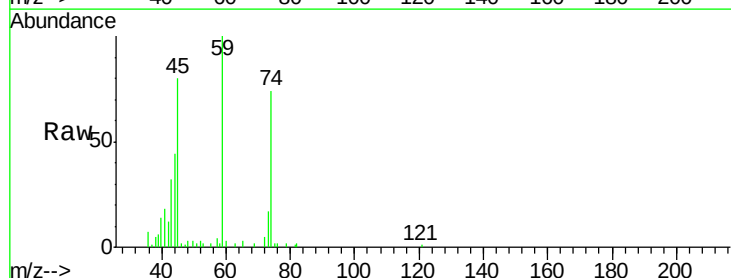
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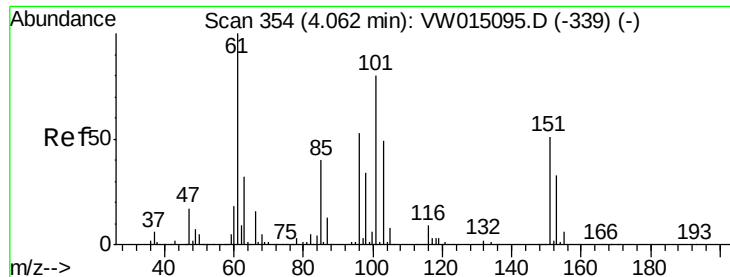


#8

Diethyl Ether
 Concen: 2.734 ug/l
 RT: 3.69 min Scan# 293
 Delta R.T. 0.01 min
 Lab File: VW015102.D
 Acq: 09 Mar 2020 17:23

Tgt Ion	Ratio	Lower	Upper
74	100		
45	144.2	59.2	177.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.794 ug/l

RT: 4.07 min Scan# 355

Delta R.T. 0.01 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

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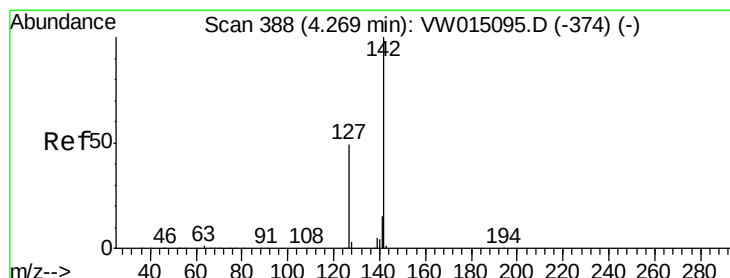
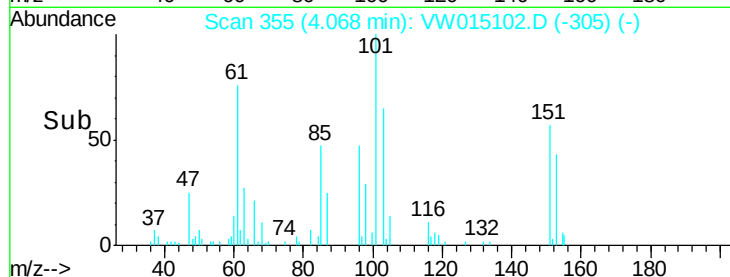
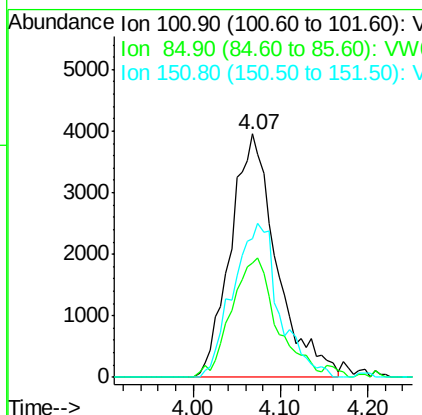
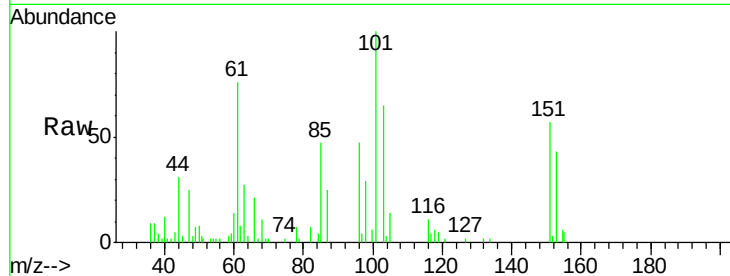
ClientSampleId :

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Tot Ion:	101	Resp:	14515
Ion Ratio	Lower	Upper	
101	100		
85	48.0	39.0	58.4
151	63.0	50.8	76.2

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#10

Methyl Iodide

Concen: 2.488 ug/l

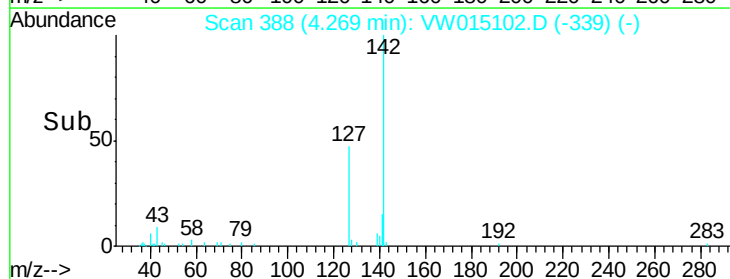
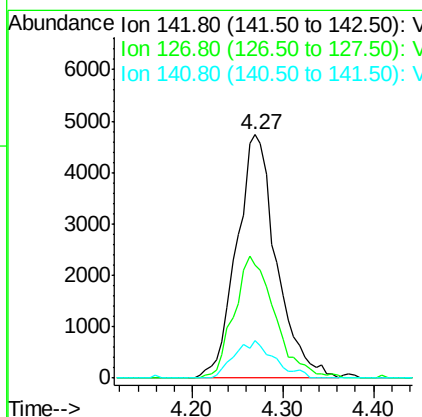
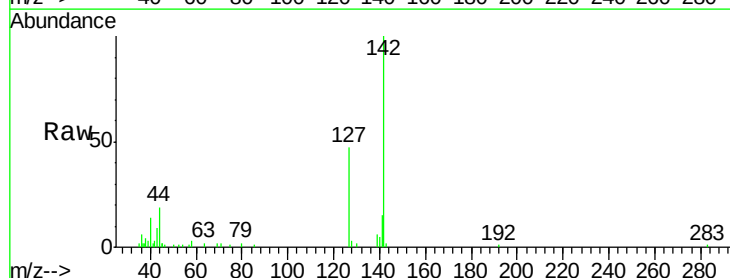
RT: 4.27 min Scan# 388

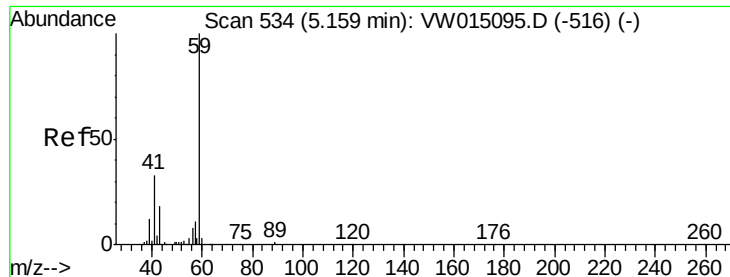
Delta R.T. 0.00 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

Tgt Ion:	142	Resp:	14378
Ion Ratio	Lower	Upper	
142	100		
127	51.4	38.2	57.4
141	15.7	12.0	18.0





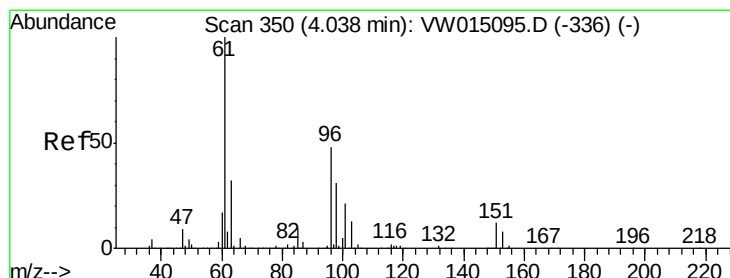
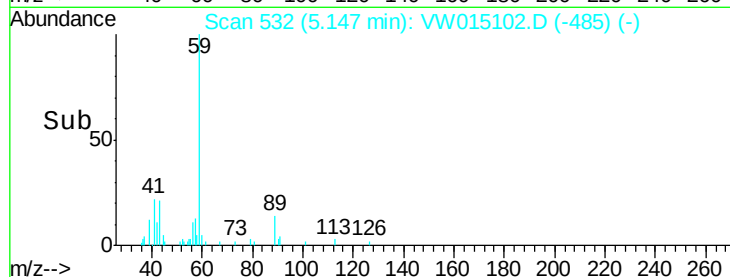
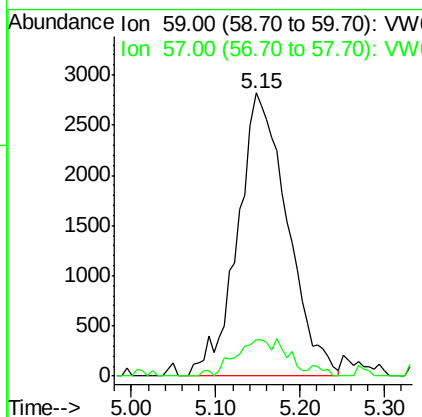
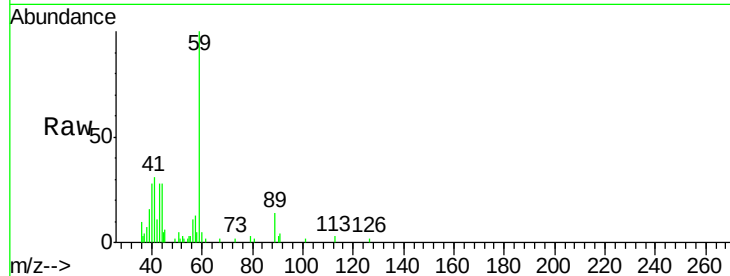
#11
Tert butyl alcohol
Concen: 33.599 ug/l
RT: 5.15 min Scan# 532
Delta R.T. -0.01 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	9.1	13.7#

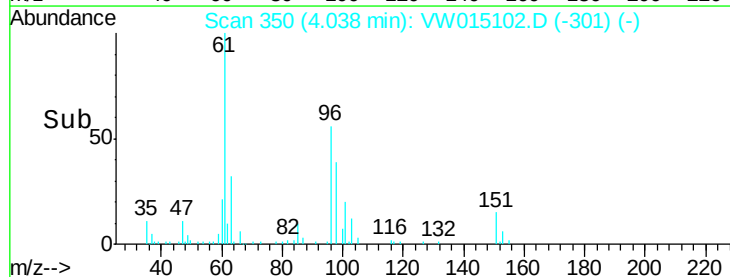
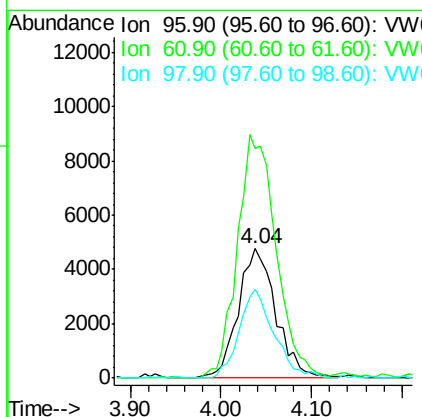
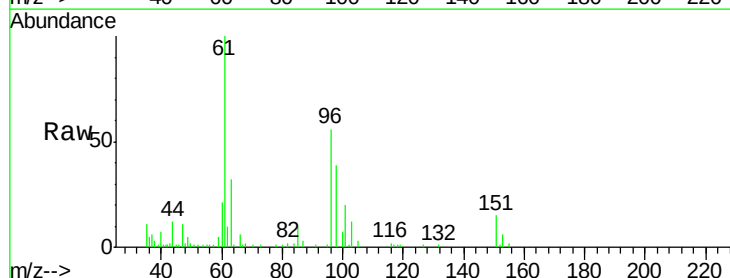
Manual Integrations
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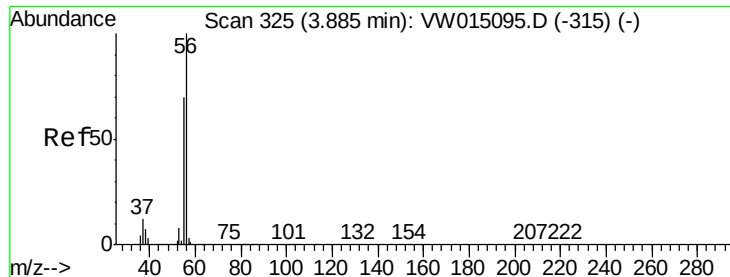
MMDadoda
3/11/2020 3:24:11 PM



#12
1,1-Dichloroethene
Concen: 2.703 ug/l
RT: 4.04 min Scan# 350
Delta R.T. 0.00 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Tgt Ion	Ratio	Lower	Upper
96	100		
61	177.5	165.5	248.3
98	68.7	51.1	76.7





#13

Acrolein

Concen: 15.652 ug/l

RT: 3.89 min Scan# 326

Delta R.T. 0.01 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion: 56 Resp: 7733

Ion Ratio Lower Upper

56 100

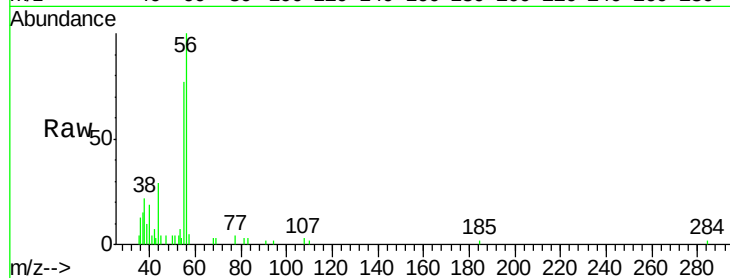
55 71.3 55.4 83.2

Manual Integrations

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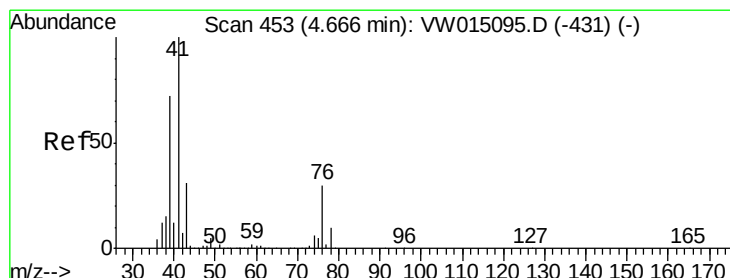
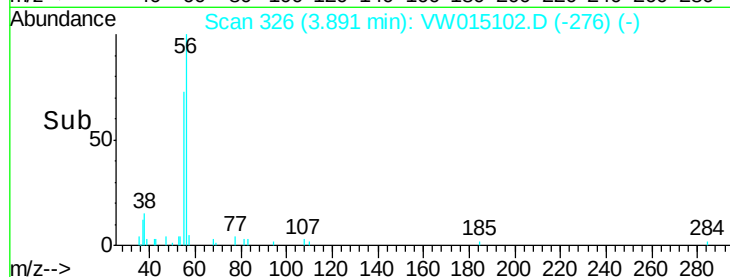


Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW

3.89

Time-->



#14

Allyl chloride

Concen: 2.603 ug/l

RT: 4.67 min Scan# 453

Delta R.T. 0.00 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

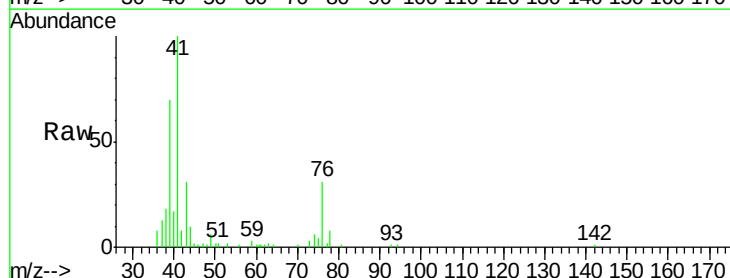
Tgt Ion: 41 Resp: 26499

Ion Ratio Lower Upper

41 100

39 71.3 56.9 85.3

76 28.1 23.2 34.8



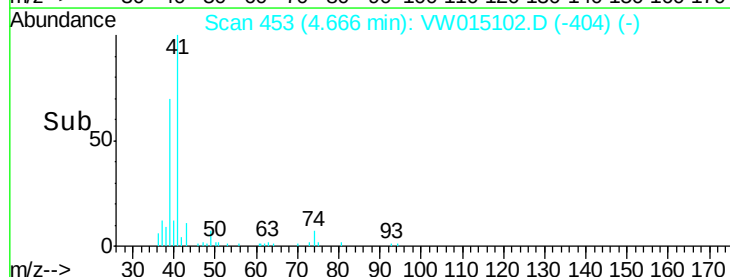
Abundance Ion 41.00 (40.70 to 41.70): VW

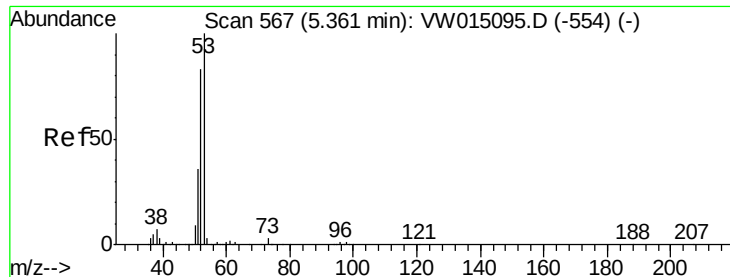
Ion 39.00 (38.70 to 39.70): VW

Ion 75.90 (75.60 to 76.60): VW

4.67

Time-->





#15

Acrylonitrile

Concen: 14.581 ug/l

RT: 5.37 min Scan# 568

Delta R.T. 0.01 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

Instrument :

MSVOA_W

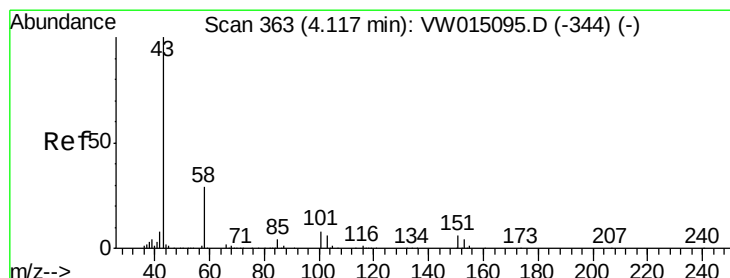
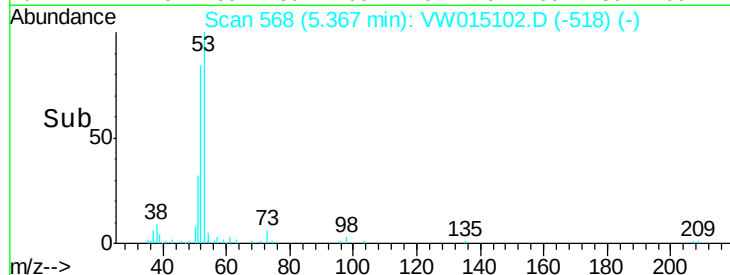
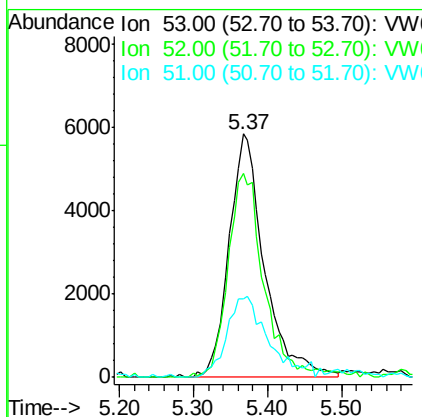
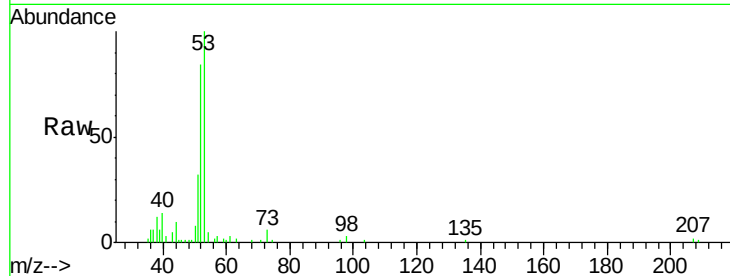
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion:	53	Resp:	19408
Ion	Ratio	Lower	Upper
53	100		
52	83.3	67.2	100.8
51	39.3	29.8	44.6

Manual Integrations
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#16

Acetone

Concen: 19.968 ug/l

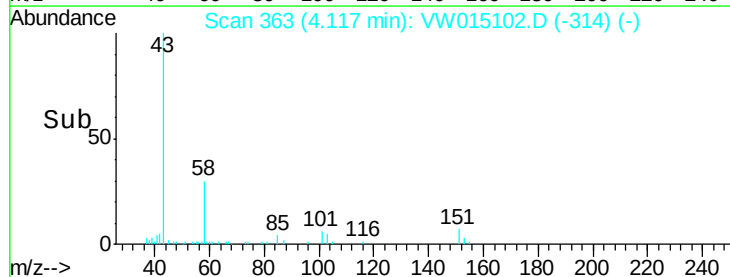
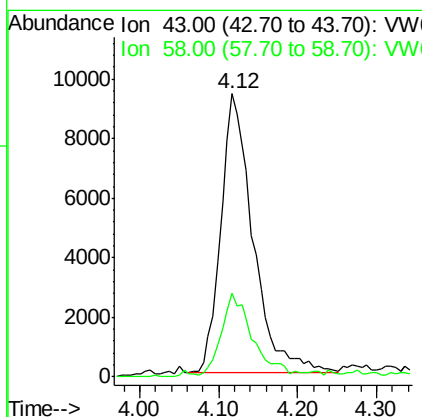
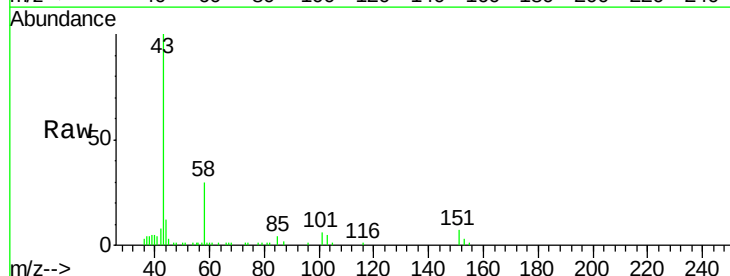
RT: 4.12 min Scan# 363

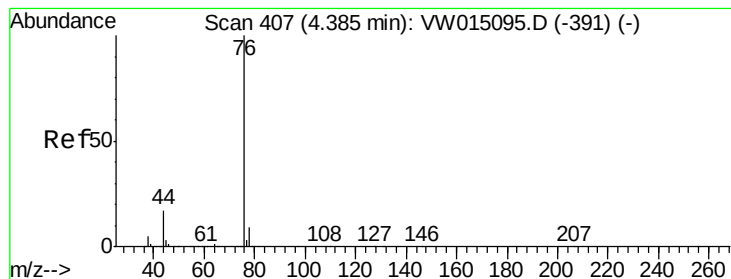
Delta R.T. 0.00 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

Tgt Ion:	43	Resp:	26768
Ion	Ratio	Lower	Upper
43	100		
58	28.9	22.9	34.3





#17

Carbon Disulfide

Concen: 2.595 ug/l

RT: 4.39 min Scan# 407

Delta R.T. 0.00 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion: 76 Resp: 46740

Ion Ratio Lower Upper

76 100

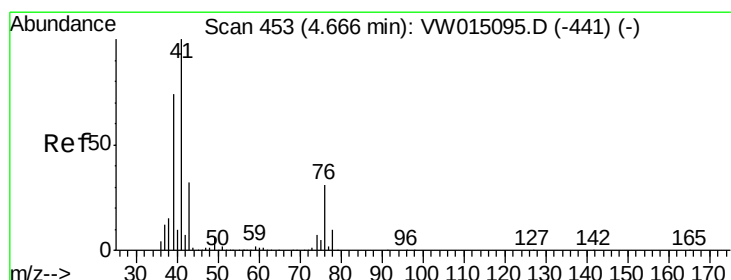
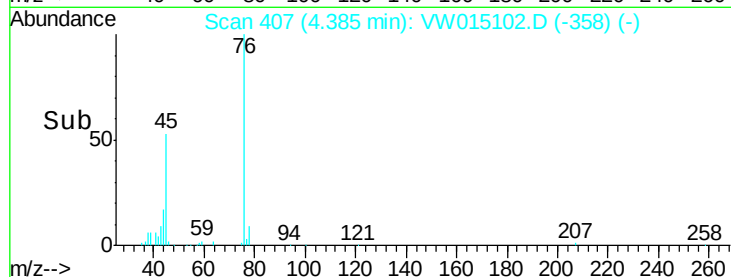
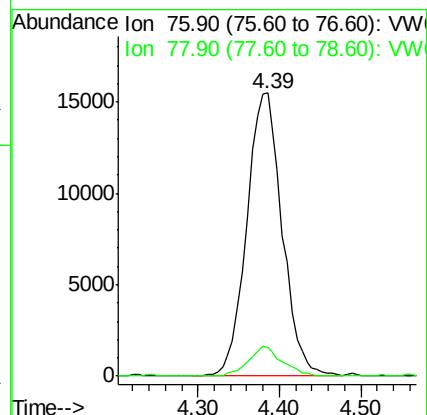
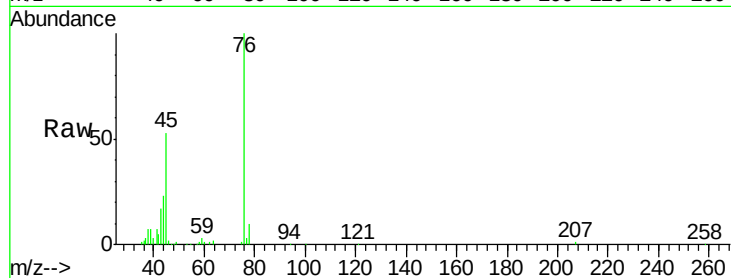
78 10.2 6.9 10.3

Manual Integrations

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#18

Methyl Acetate

Concen: 3.157 ug/l

RT: 4.67 min Scan# 454

Delta R.T. 0.01 min

Lab File: VW015102.D

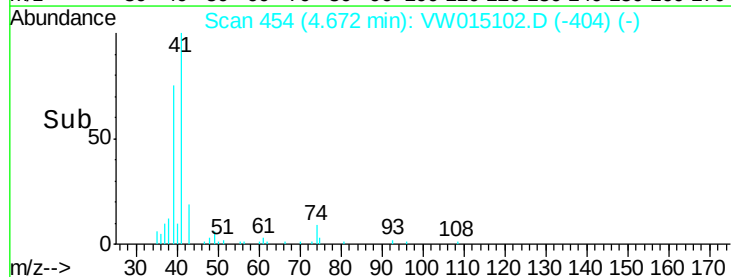
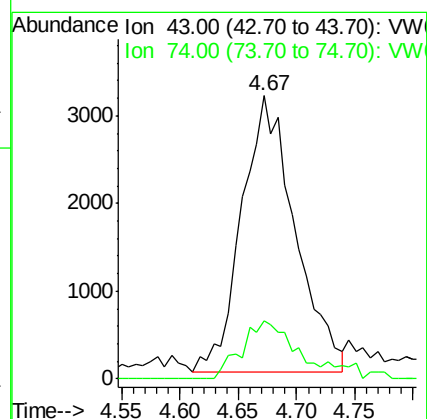
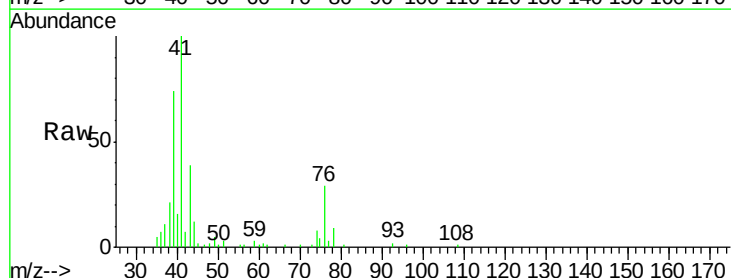
Acq: 09 Mar 2020 17:23

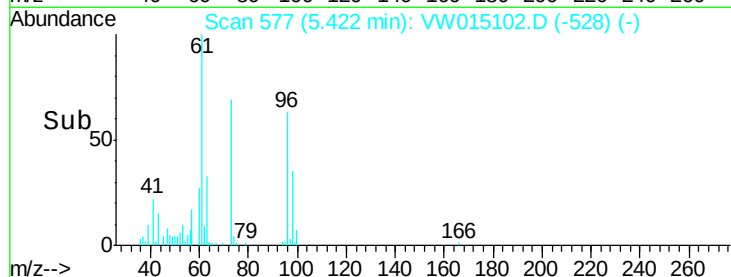
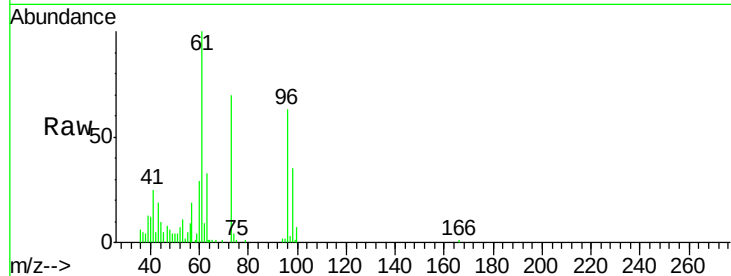
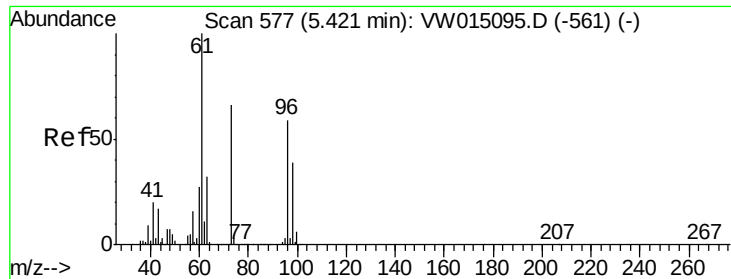
Tgt Ion: 43 Resp: 10033

Ion Ratio Lower Upper

43 100

74 20.1 15.8 23.6





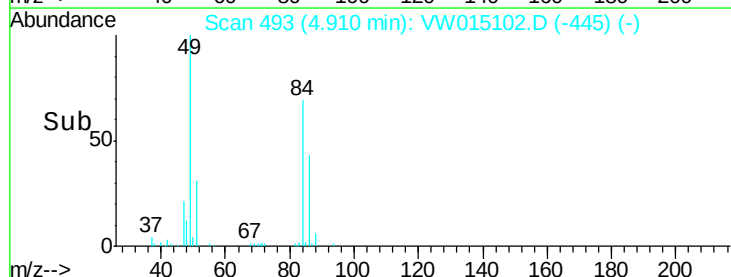
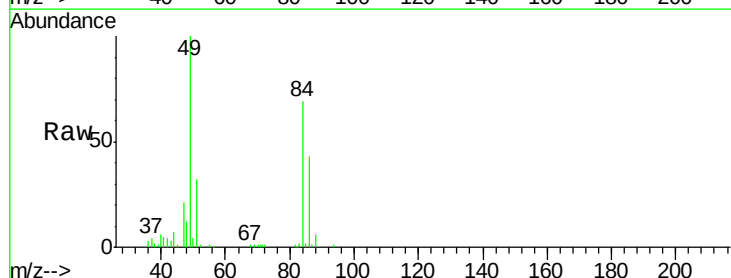
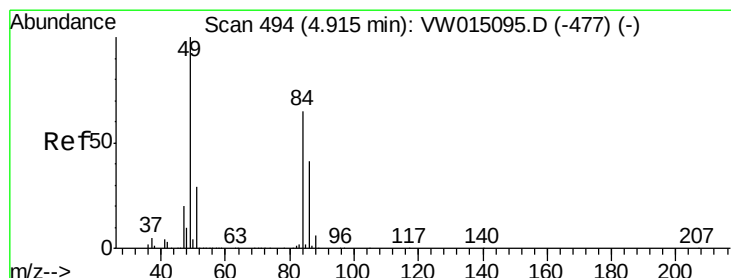
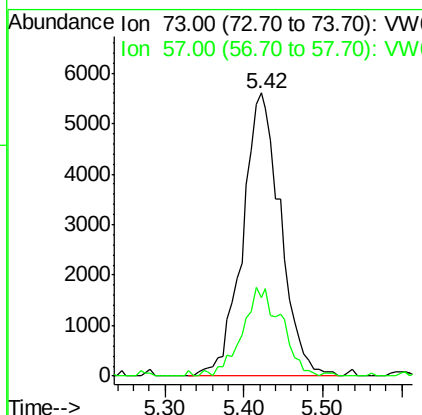
#19
Methyl tert-butyl Ether
Concen: 2.884 ug/l
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Tot Ion	Ratio	Lower	Upper
73	100		
57	27.8	19.3	28.9

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

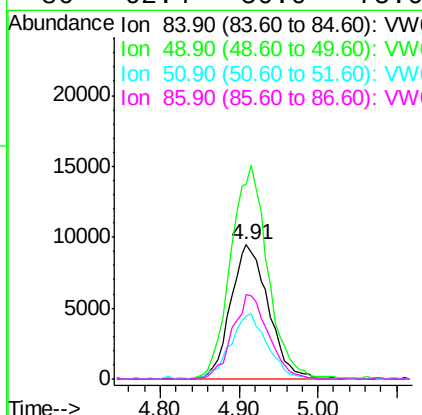
Manual Integrations
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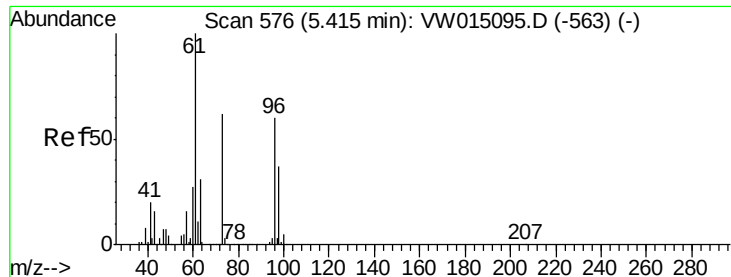
MMDadoda
3/11/2020 3:24:11 PM



#20
Methylene Chloride
Concen: 5.074 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Tgt Ion	Ratio	Lower	Upper
84	100		
49	145.2	122.8	184.2
51	46.3	35.9	53.9
86	62.4	50.0	75.0





#21

trans-1,2-Dichloroethene

Concen: 2.783 ug/l

RT: 5.42 min Scan# 576

Delta R.T. 0.00 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

Instrument :

MSVOA_W

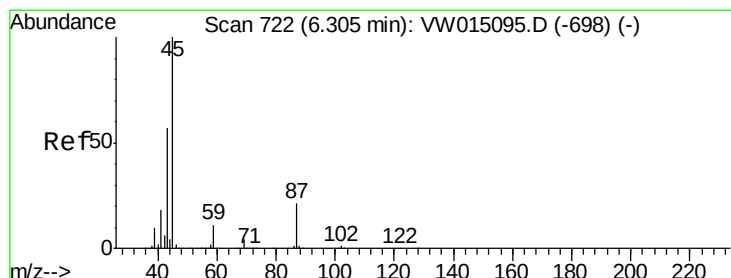
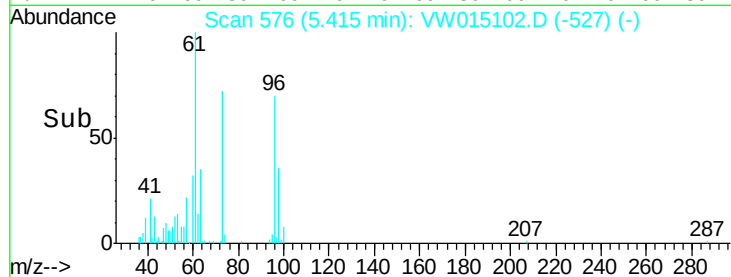
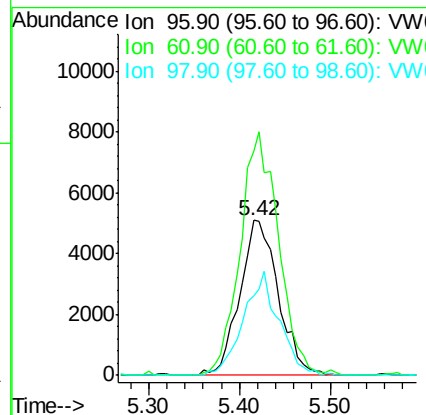
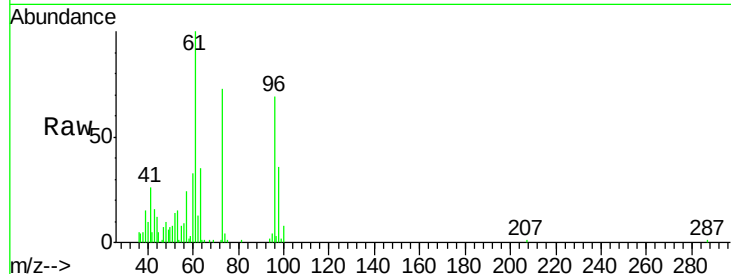
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion:	96	Resp:	15010
Ion	Ratio	Lower	Upper
96	100		
61	144.6	132.5	198.7
98	51.9	48.9	73.3

Manual Integrations
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#22

Diisopropyl ether

Concen: 2.283 ug/l

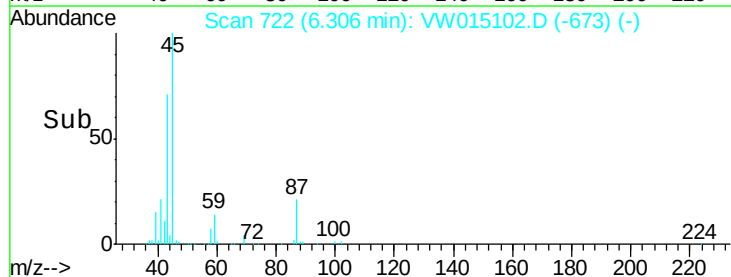
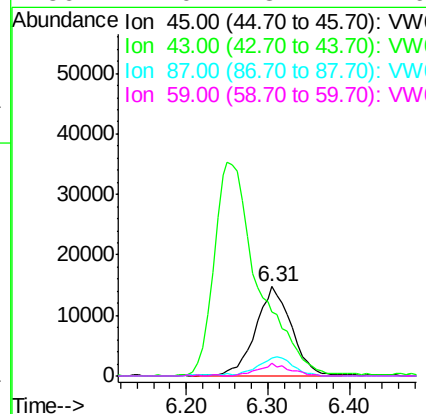
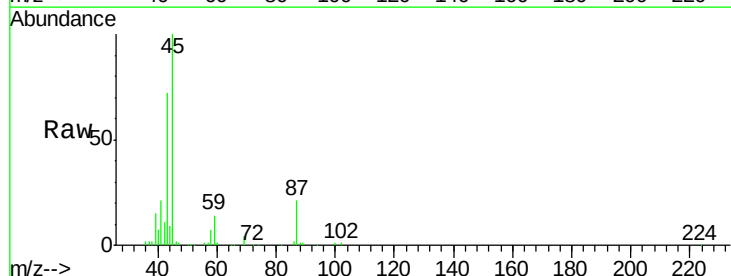
RT: 6.31 min Scan# 722

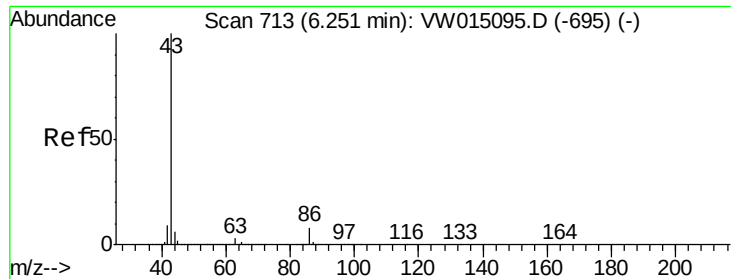
Delta R.T. 0.00 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

Tgt Ion:	45	Resp:	44591
Ion	Ratio	Lower	Upper
45	100		
43	69.1	45.4	68.0#
87	20.6	16.4	24.6
59	14.0	8.4	12.6#





#23

Vinyl Acetate

Concen: 11.541 ug/l

RT: 6.25 min Scan# 713

Delta R.T. 0.00 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion: 43 Resp: 133055

Ion Ratio Lower Upper

43 100

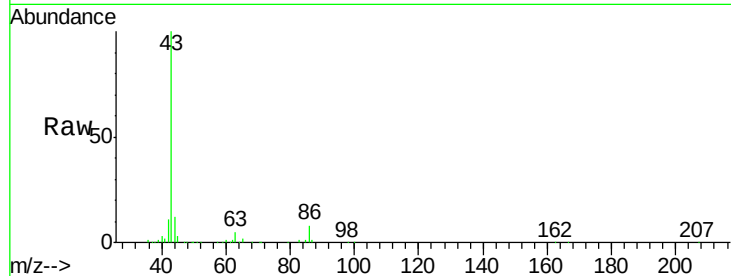
86 7.5 6.3 9.5

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW

6.25

40000

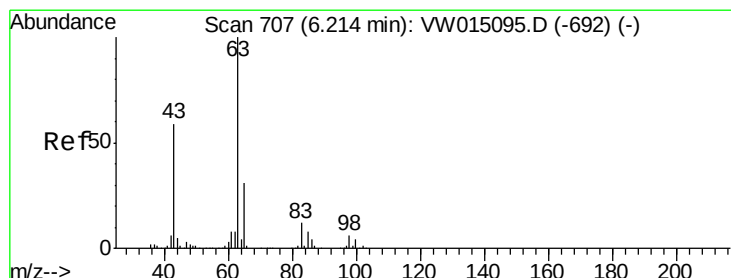
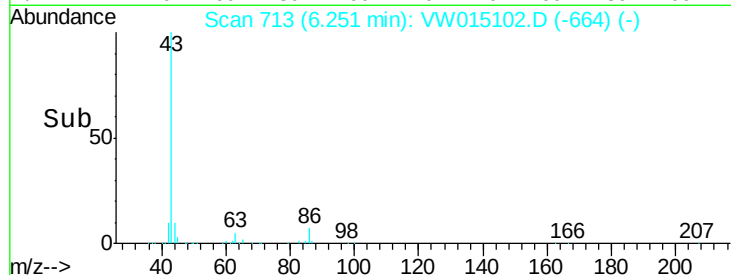
30000

20000

10000

0

Time-->



#24

1,1-Dichloroethane

Concen: 2.711 ug/l

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

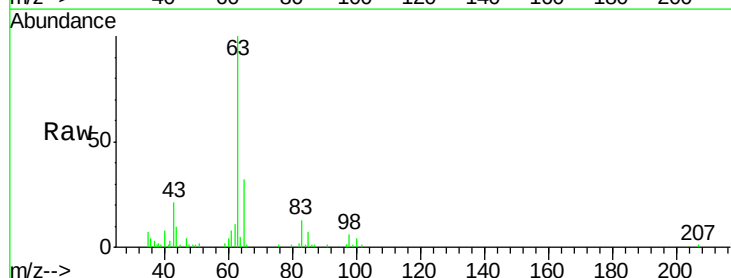
Tgt Ion: 63 Resp: 30872

Ion Ratio Lower Upper

63 100

98 5.8 2.9 8.8

100 3.6 2.1 6.3



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW

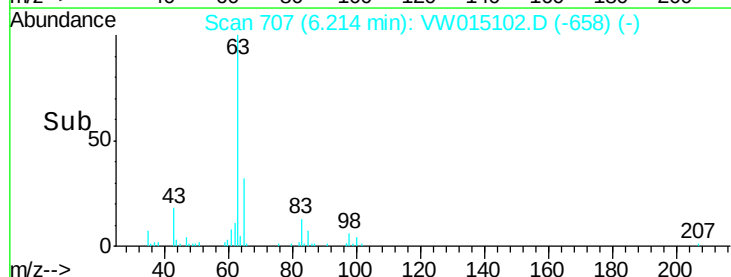
6.21

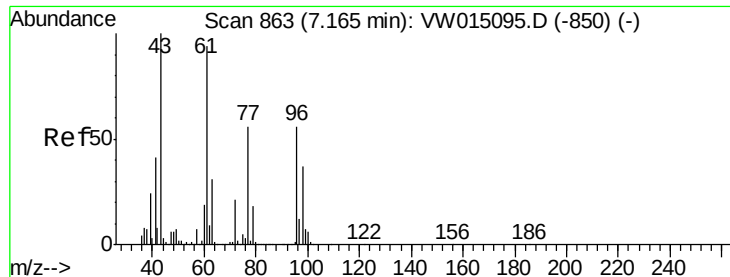
10000

5000

0

Time-->





#25

2-Butanone

Concen: 16.146 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion: 43 Resp: 29671

Ion Ratio Lower Upper

43 100

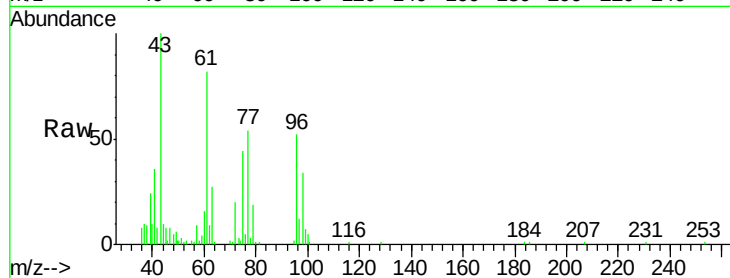
72 20.0 17.0 25.6

Manual Integrations

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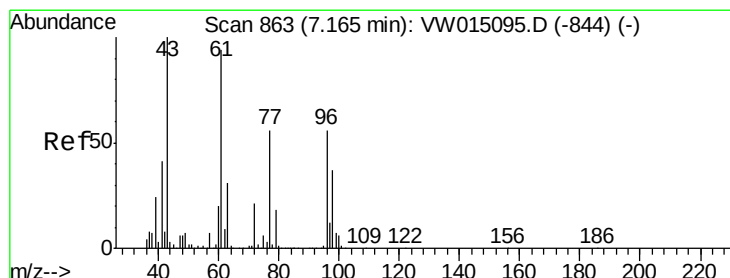
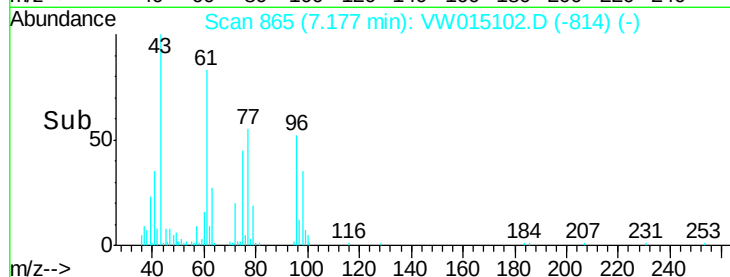
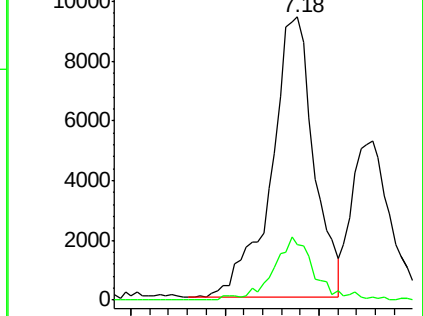
MMDadoda

3/11/2020 3:24:11 PM



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: 7.16 min Scan# 862

Delta R.T. -0.01 min

Lab File: VW015102.D

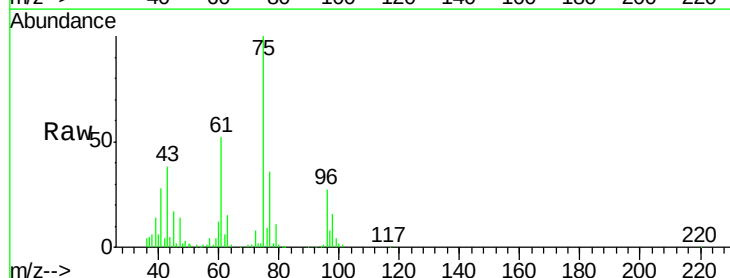
Acq: 09 Mar 2020 17:23

Tgt Ion: 77 Resp: 23559

Ion Ratio Lower Upper

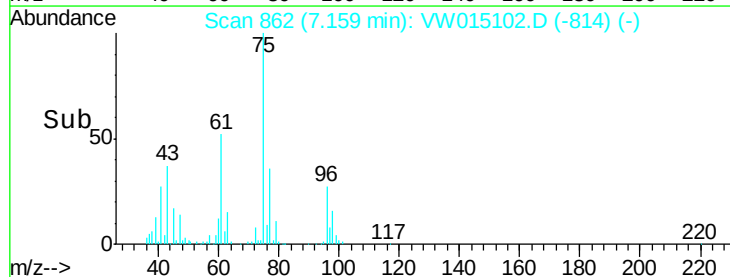
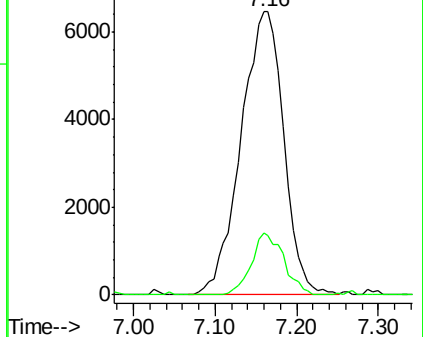
77 100

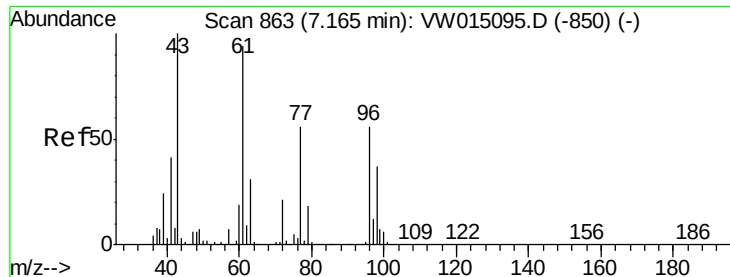
97 16.7 10.6 31.8



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW





#27

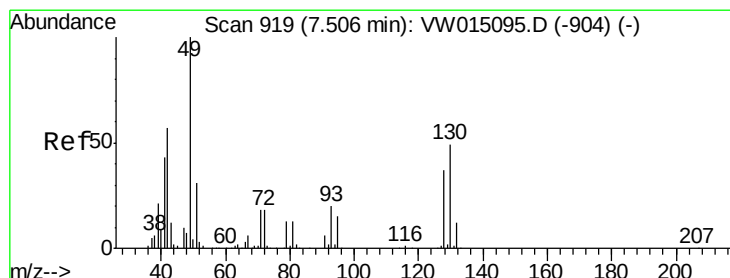
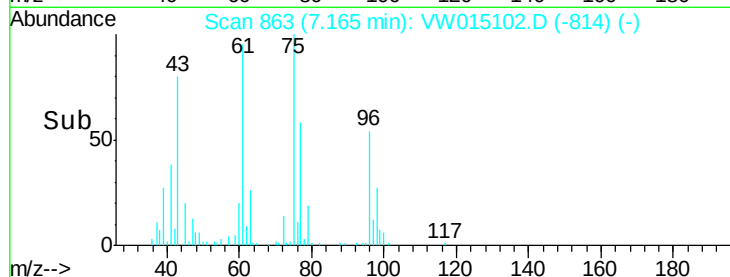
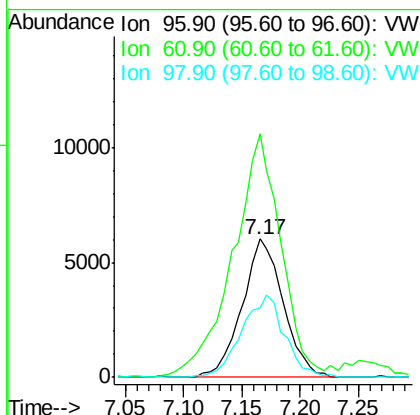
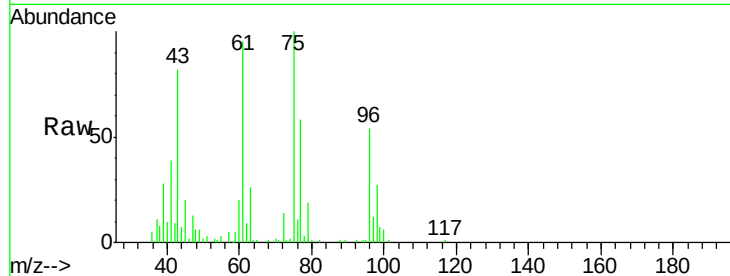
cis-1,2-Dichloroethene
Concen: 2.636 ug/l
RT: 7.17 min Scan# 863
Delta R.T. 0.00 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
96	100		
61	204.7	0.0	343.4
98	61.9	0.0	127.6

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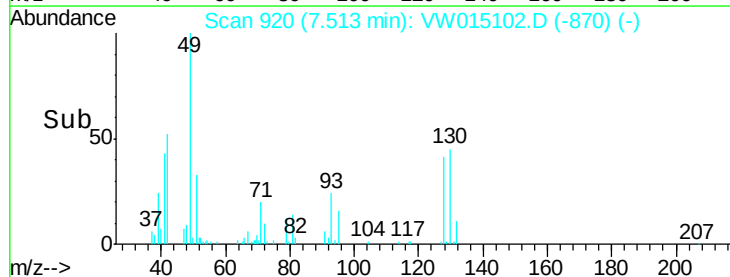
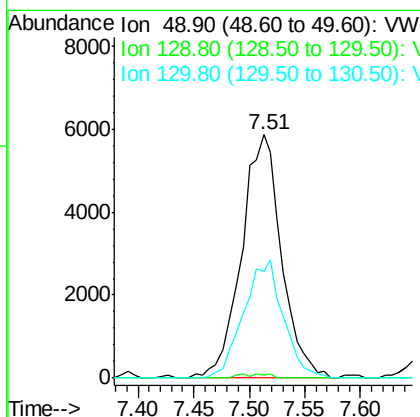
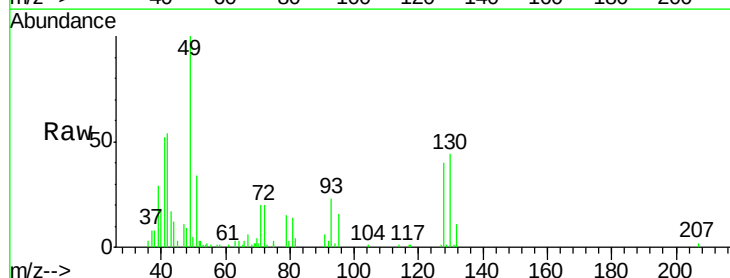
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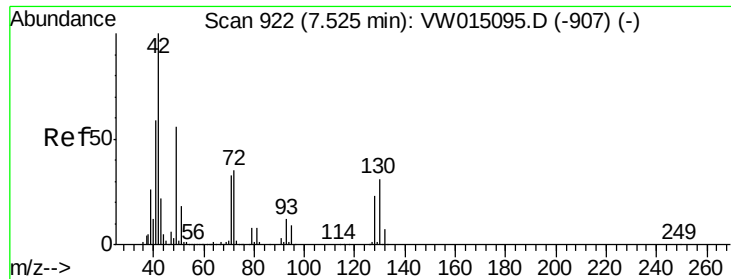


#28

Bromochloromethane
Concen: 2.675 ug/l
RT: 7.51 min Scan# 920
Delta R.T. 0.01 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.0
130	48.1	39.8	59.6





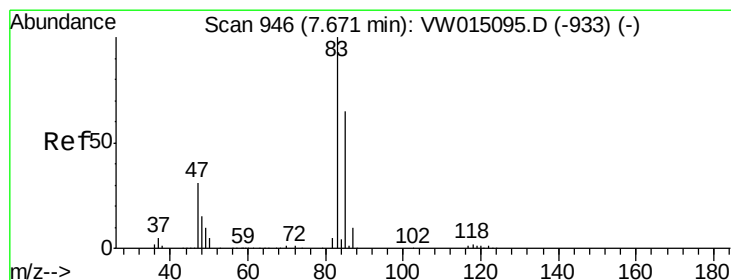
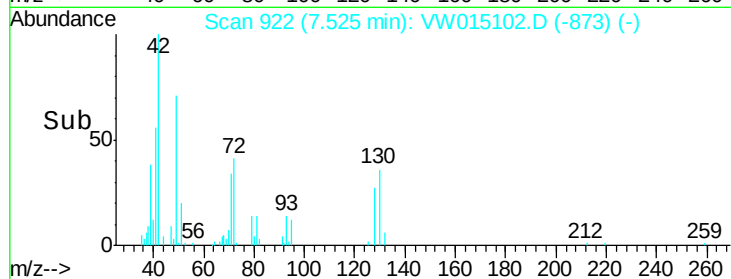
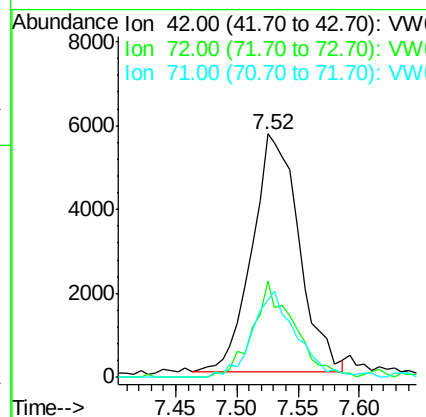
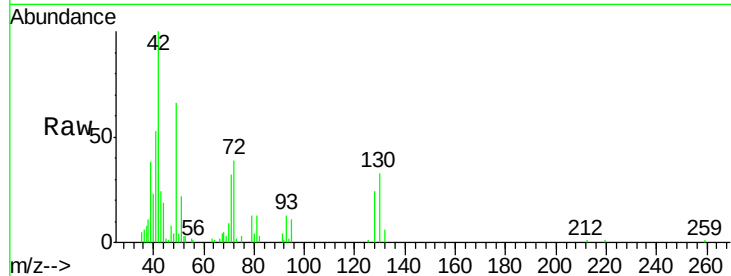
#29
Tetrahydrofuran
Concen: 13.121 ug/l
RT: 7.52 min Scan# 922
Delta R.T. 0.00 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
42	100		
72	35.8	27.8	41.6
71	33.6	26.4	39.6

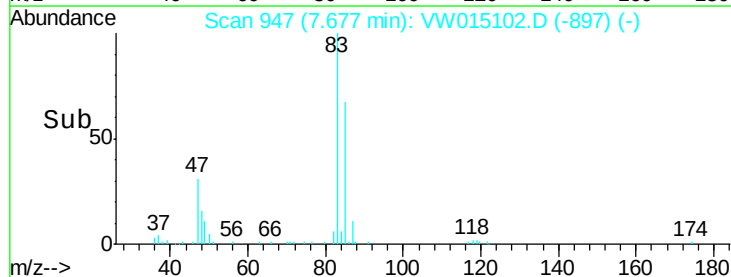
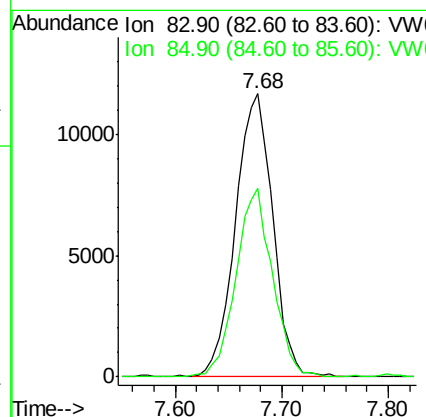
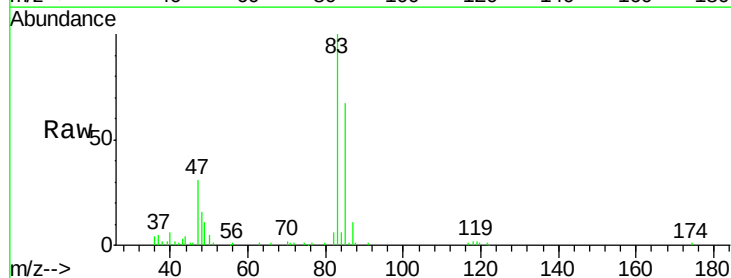
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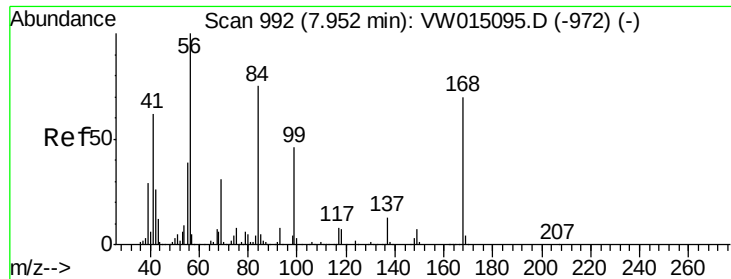
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#30
Chloroform
Concen: 2.833 ug/l
RT: 7.68 min Scan# 947
Delta R.T. 0.01 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.9	51.9	77.9





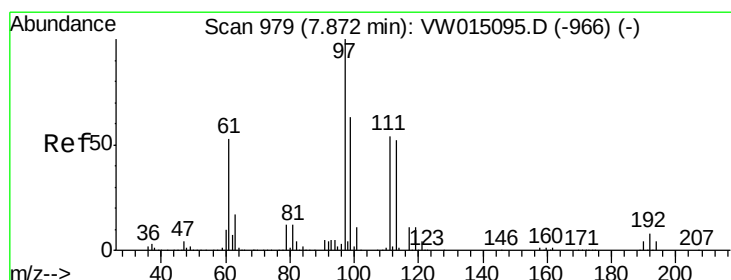
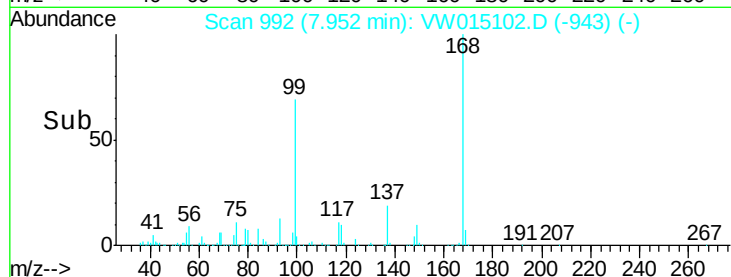
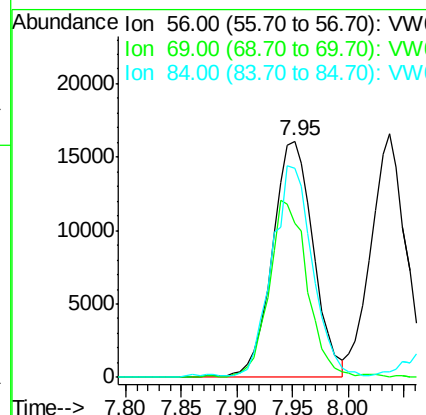
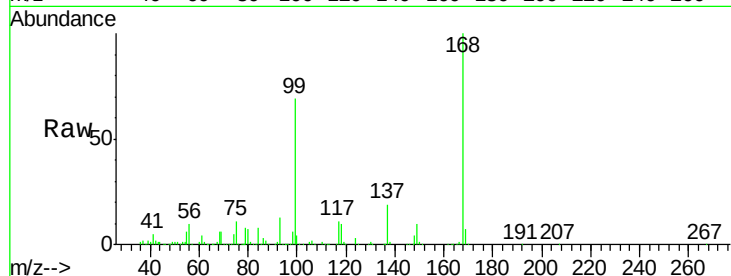
#31
Cyclohexane
Concen: 3.521 ug/l
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
56	100		
69	64.7	24.6	37.0#
84	87.2	59.9	89.9

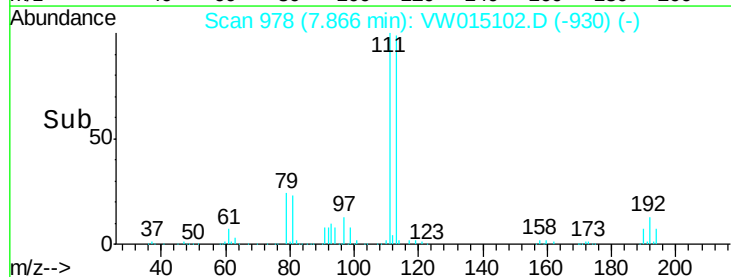
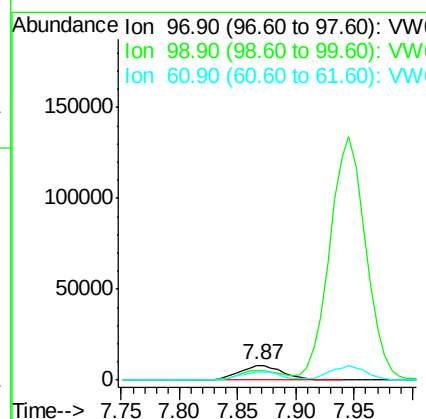
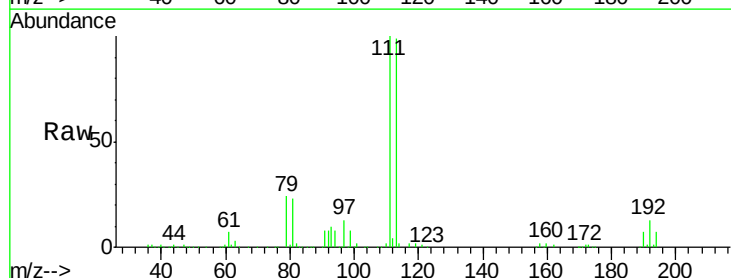
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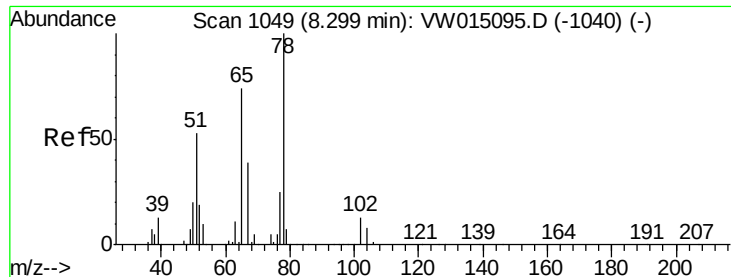
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 2.657 ug/l
RT: 7.87 min Scan# 978
Delta R.T. -0.01 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.1	51.3	76.9
61	56.3	44.0	66.0





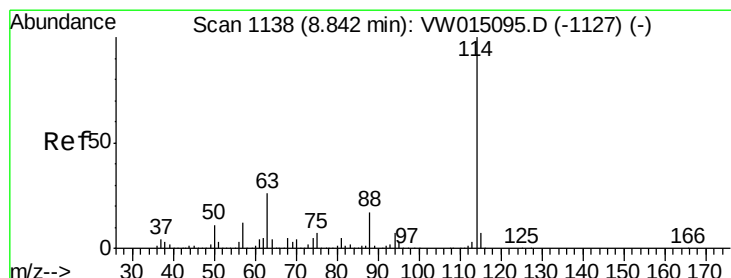
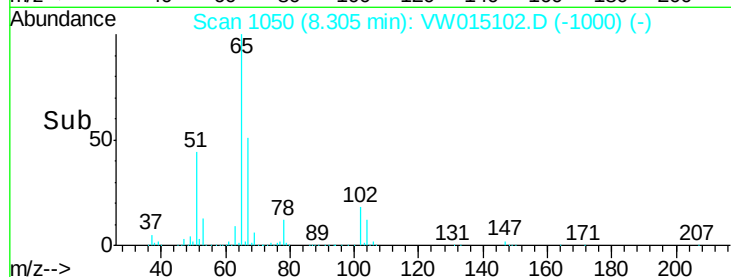
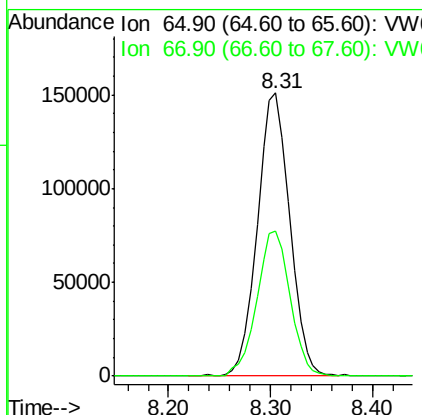
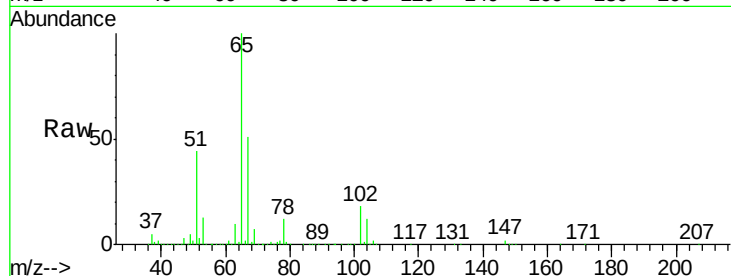
#33
 1,2-Dichloroethane-d4
 Concen: 56.747 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.01 min
 Lab File: VW015102.D
 Acq: 09 Mar 2020 17:23

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	105.0

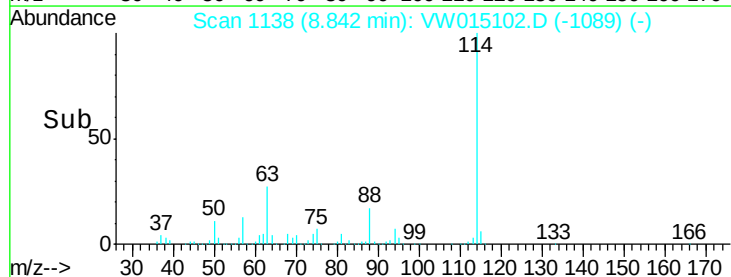
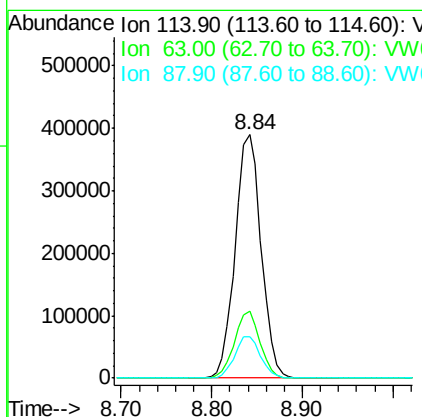
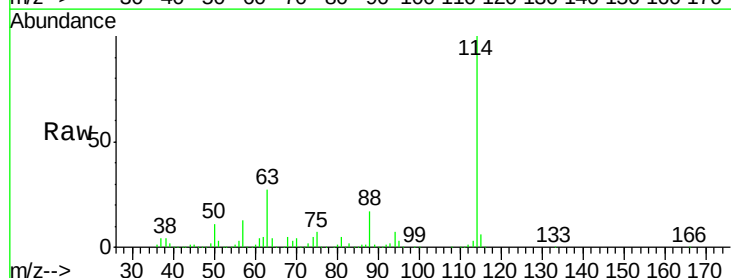
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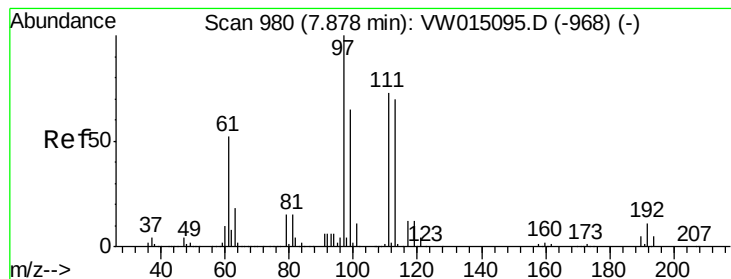
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW015102.D
 Acq: 09 Mar 2020 17:23

Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.4	0.0	52.0
88	17.2	0.0	34.2





#35

Dibromofluoromethane

Concen: 52.519 ug/l

RT: 7.88 min Scan# 980

Delta R.T. 0.00 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

Instrument :

MSVOA_W

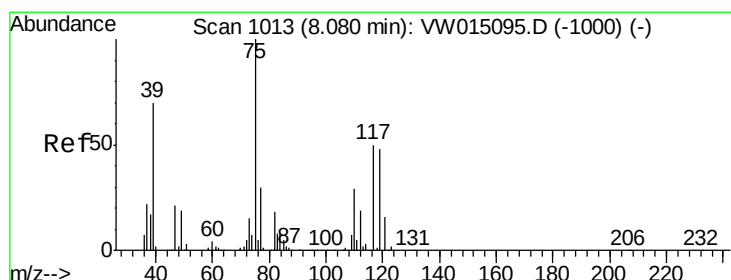
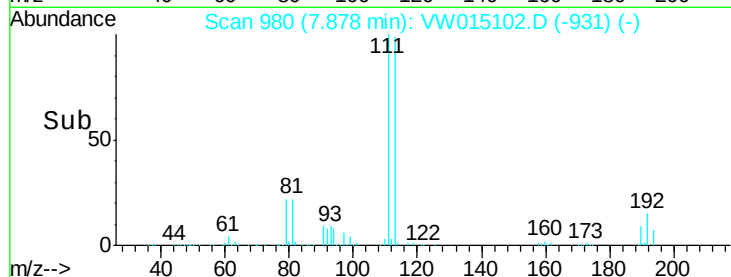
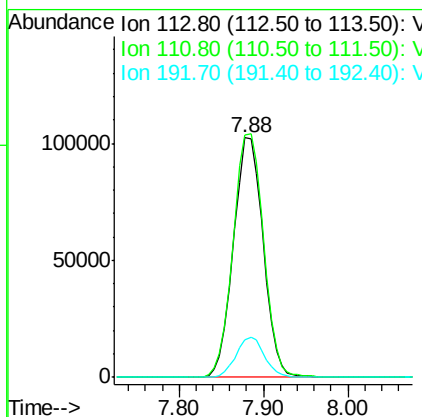
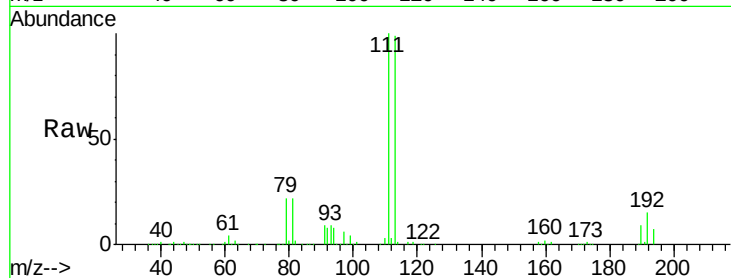
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion:	113	Resp:	243971
Ion Ratio	Lower	Upper	
113	100		
111	104.0	83.6	125.4
192	16.0	12.4	18.6

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#36

1,1-Dichloropropene

Concen: 2.511 ug/l

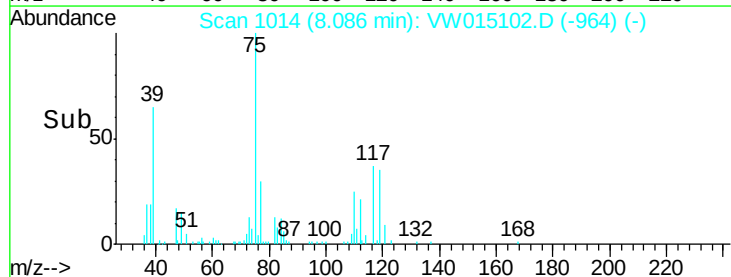
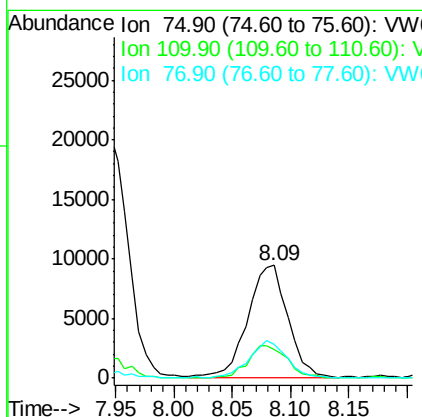
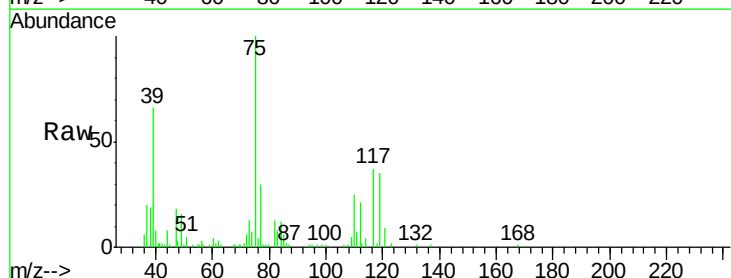
RT: 8.09 min Scan# 1014

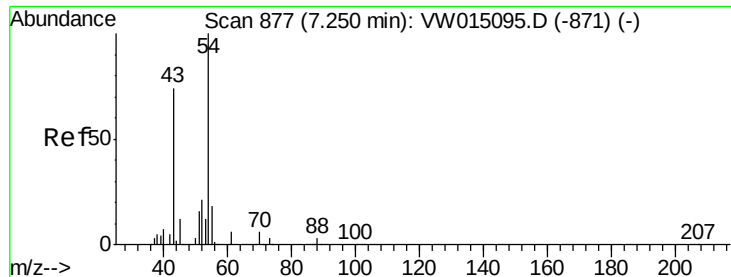
Delta R.T. 0.01 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

Tgt Ion:	75	Resp:	22592
Ion Ratio	Lower	Upper	
75	100		
110	28.8	14.7	44.1
77	31.4	24.2	36.4





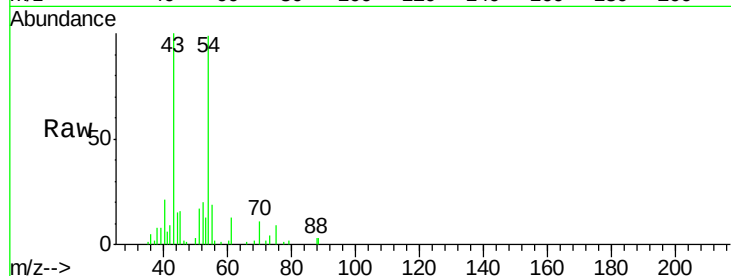
#37
Ethyl Acetate
Concen: 3.453 ug/l
RT: 7.26 min Scan# 878
Delta R.T. 0.01 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

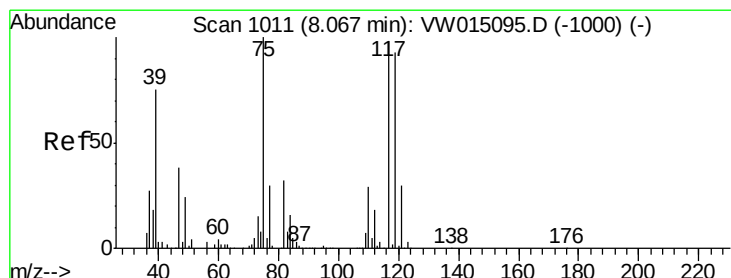
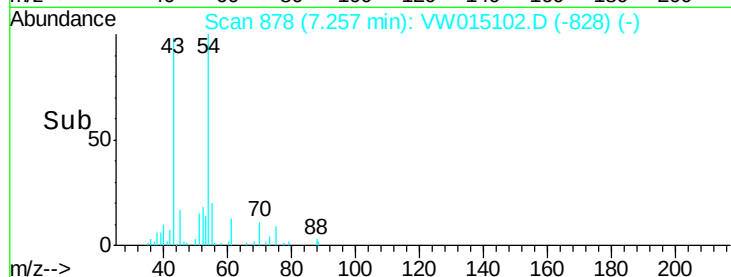
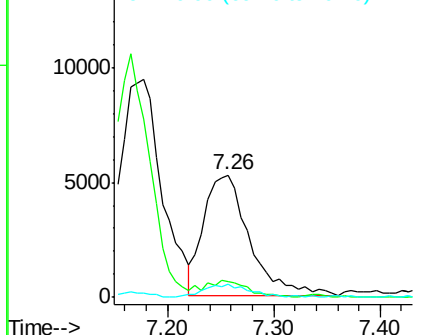
Tot Ion	Ratio	Lower	Upper
43	100		
61	13.6	9.6	14.4
70	10.6	6.5	9.7#

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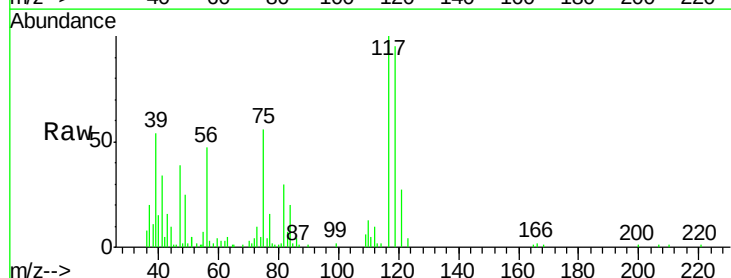


Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 70.00 (69.70 to 70.70): VW

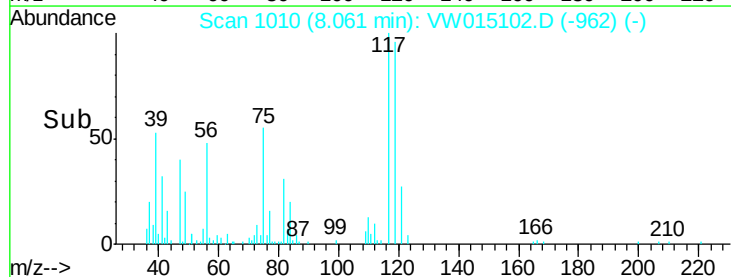
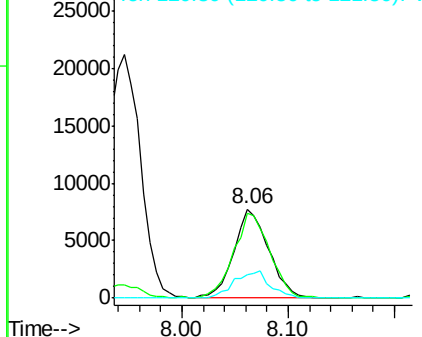


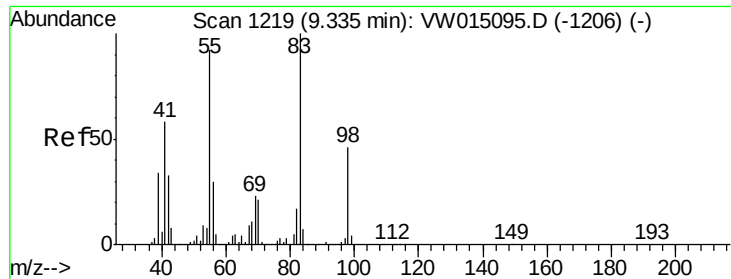
#38
Carbon Tetrachloride
Concen: 2.455 ug/l
RT: 8.06 min Scan# 1010
Delta R.T. -0.01 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.5	75.8	113.8
121	26.7	24.5	36.7



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V





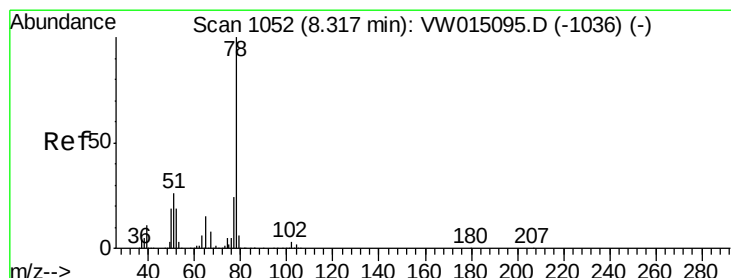
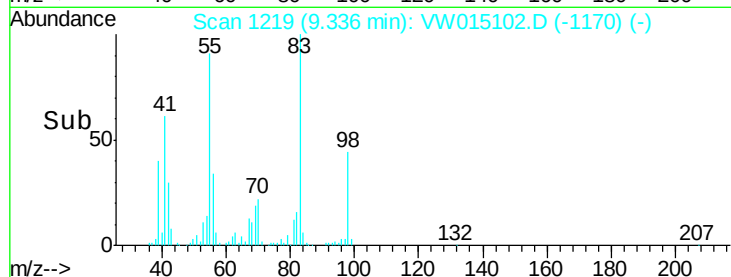
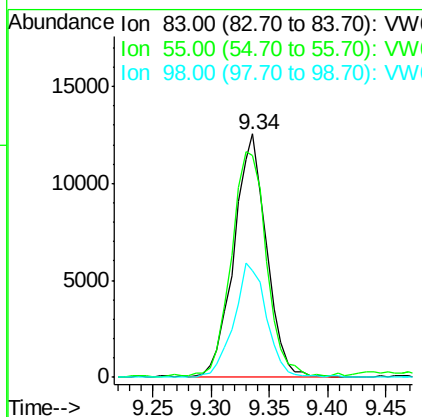
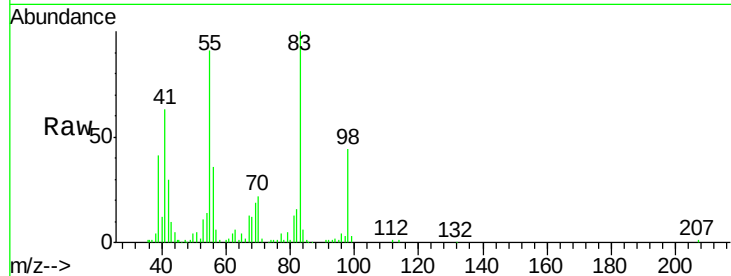
#39
Methylvlcyclohexane
Concen: 2.381 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion	83	Resp	24493
Ion Ratio	Lower	Upper	
83	100		
55	90.5	73.5	110.3
98	43.9	37.2	55.8

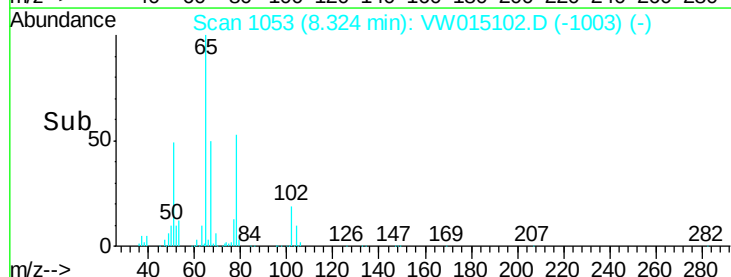
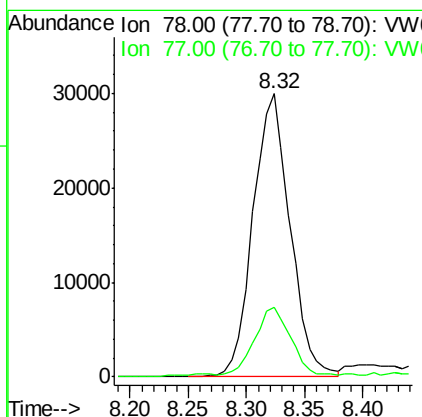
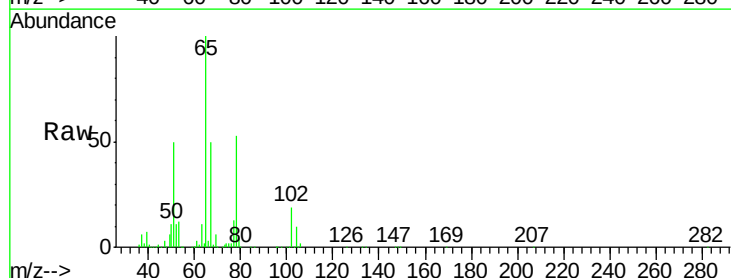
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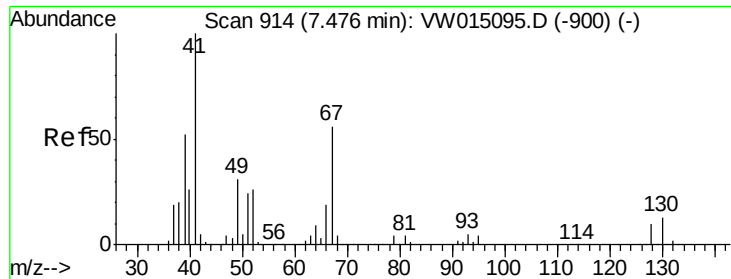
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#40
Benzene
Concen: 2.652 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. 0.01 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Tgt Ion	78	Resp	66317
Ion Ratio	Lower	Upper	
78	100		
77	24.1	19.5	29.3





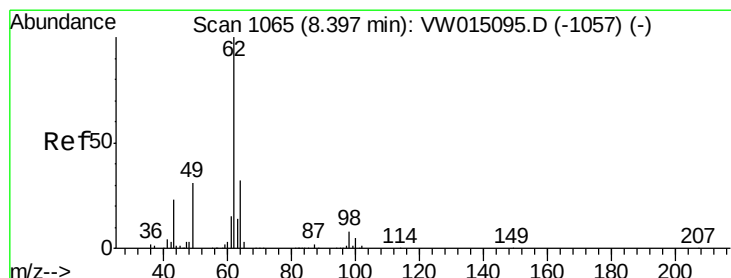
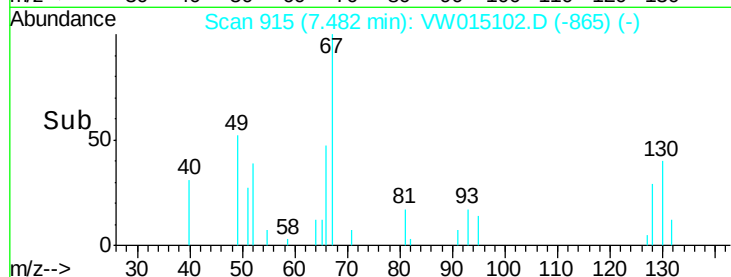
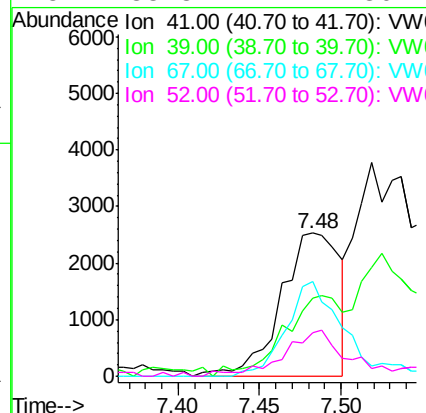
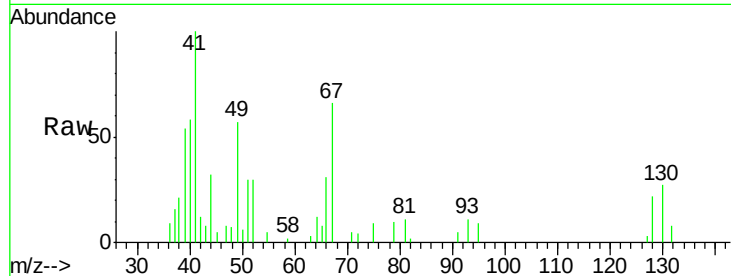
#41
Methacrylonitrile
Concen: 2.668 ug/l
RT: 7.48 min Scan# 915
Delta R.T. 0.01 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion:	41	Resp:	6327
Ion	Ratio	Lower	Upper
41	100		
39	54.9	49.0	73.4
67	65.1	50.4	75.6
52	33.8	24.2	36.4

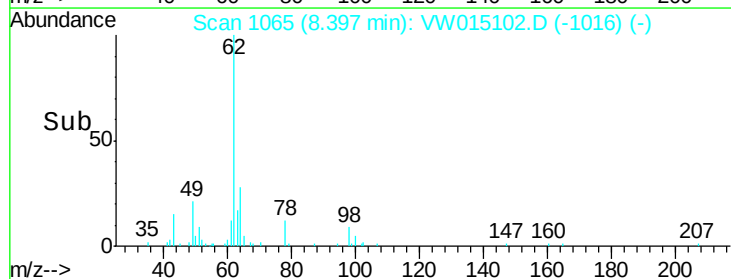
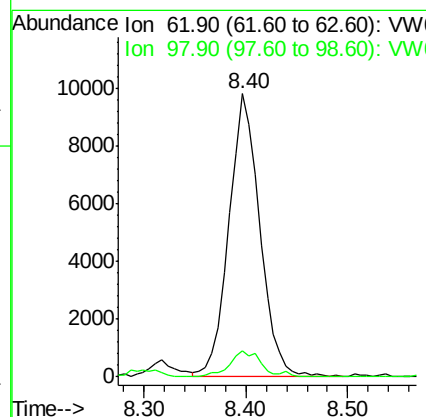
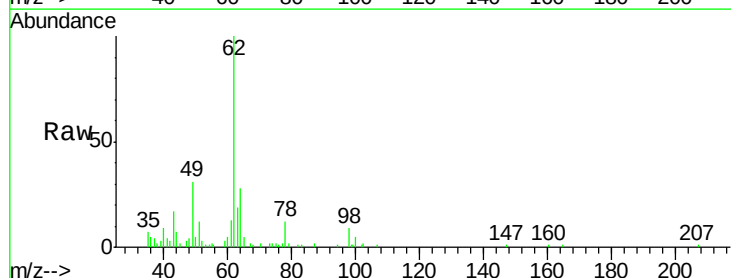
Manual Integrations
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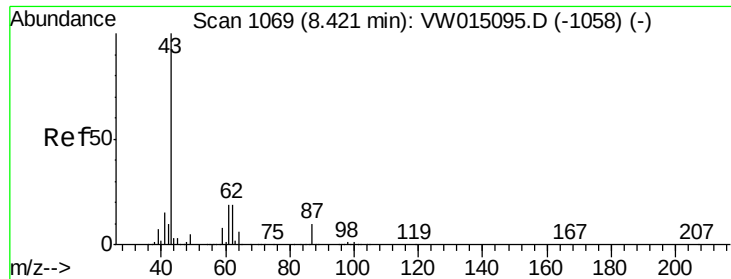
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#42
1,2-Dichloroethane
Concen: 2.717 ug/l
RT: 8.40 min Scan# 1065
Delta R.T. 0.00 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Tgt Ion:	62	Resp:	20698
Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	16.0





#43

Isopropyl Acetate

Concen: 2.679 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. 0.01 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

Instrument :

MSVOA_W

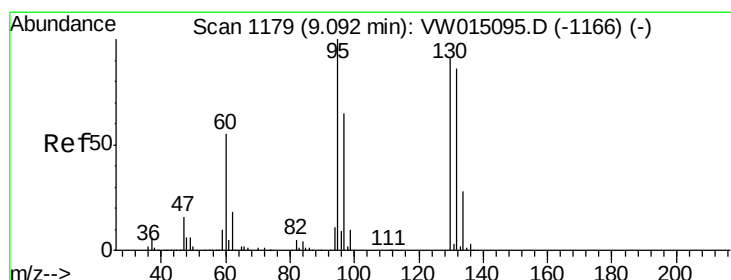
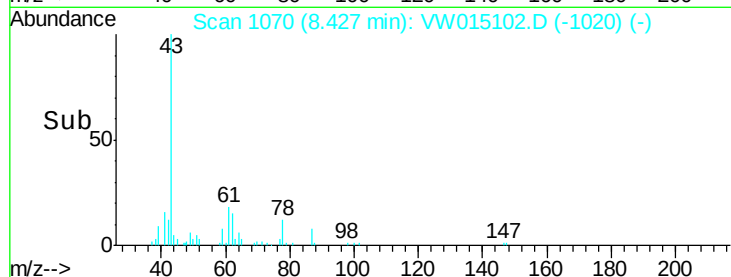
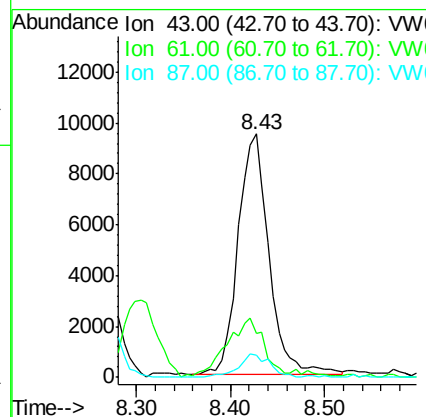
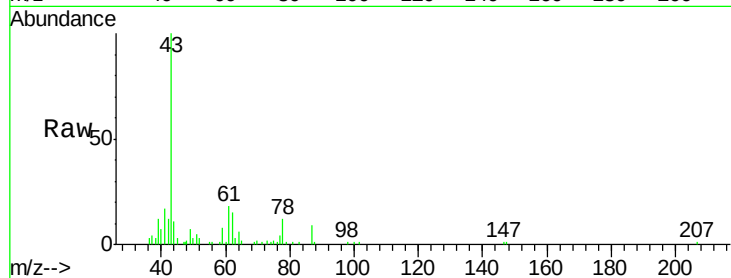
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion:	43	Resp:	21535
Ion	Ratio	Lower	Upper
43	100		
61	28.4	21.8	32.8
87	9.7	8.0	12.0

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#44

Trichloroethene

Concen: 2.507 ug/l

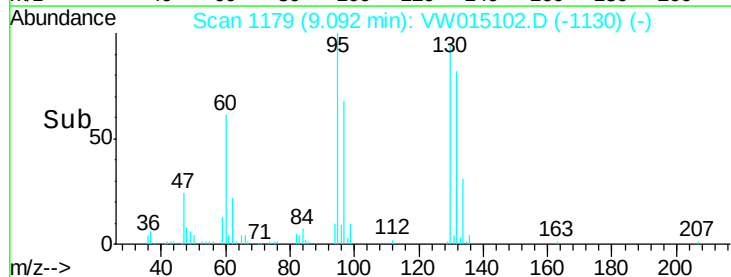
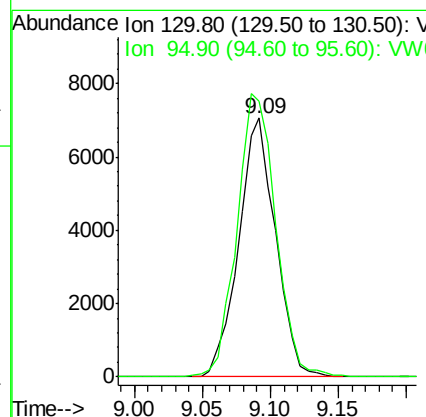
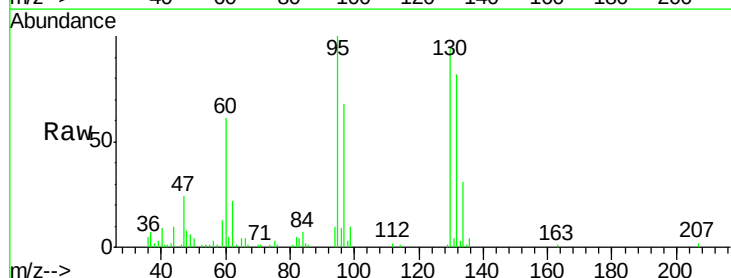
RT: 9.09 min Scan# 1179

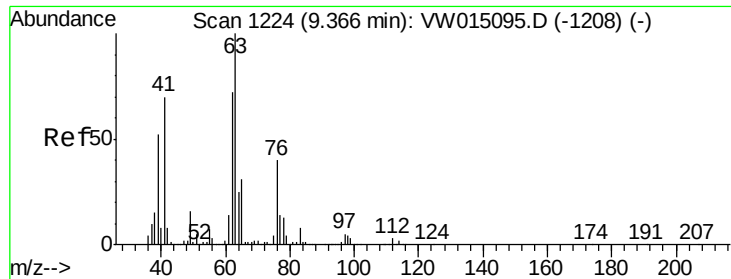
Delta R.T. 0.00 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

Tgt Ion:	130	Resp:	13347
Ion	Ratio	Lower	Upper
130	100		
95	105.7	0.0	219.8





#45

1,2-Dichloropropane

Concen: 2.521 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion: 63 Resp: 16976

Ion Ratio Lower Upper

63 100

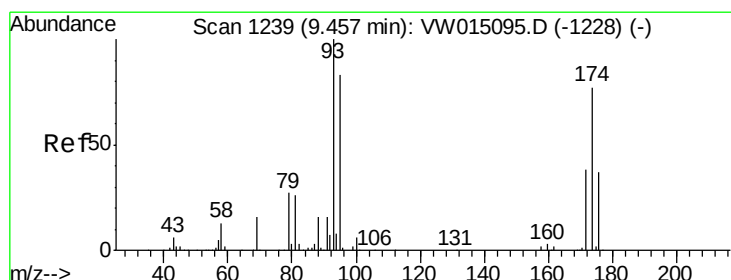
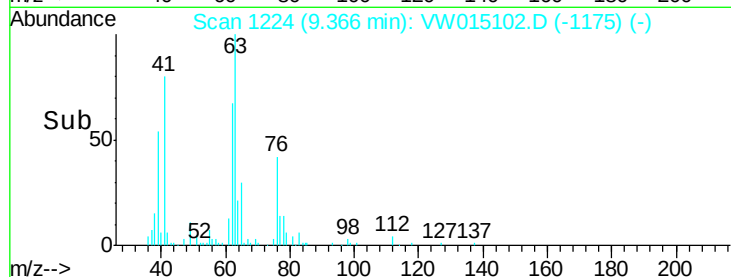
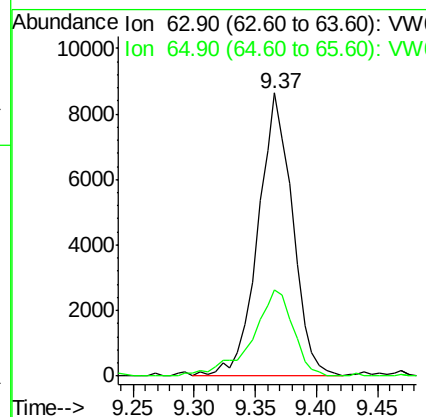
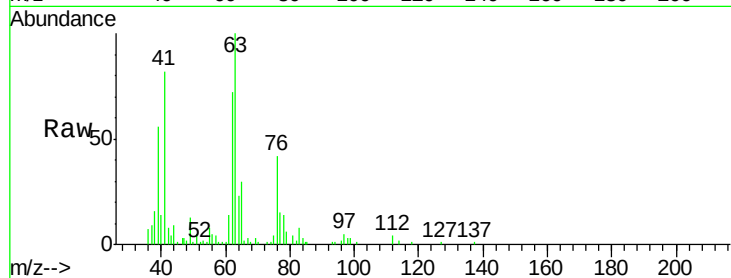
65 30.3 24.6 36.8

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#46

Dibromomethane

Concen: 2.754 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. 0.00 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

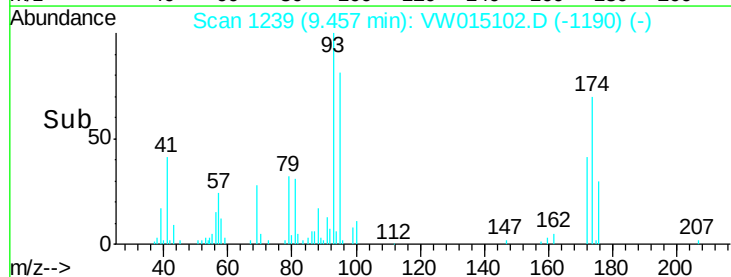
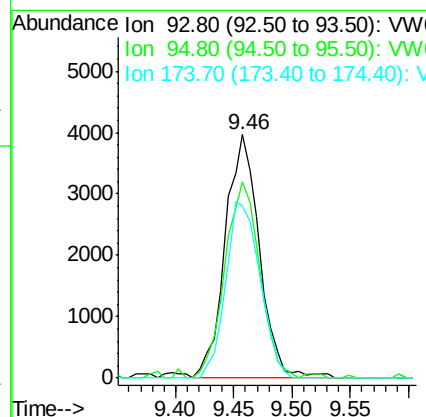
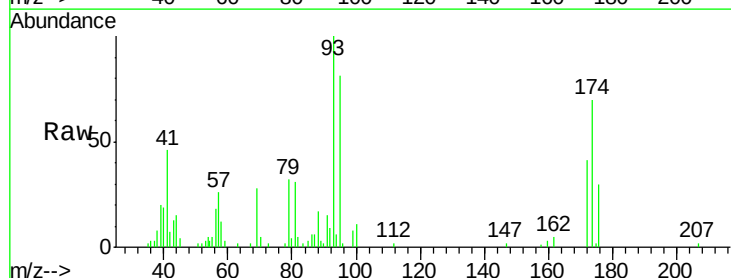
Tgt Ion: 93 Resp: 8064

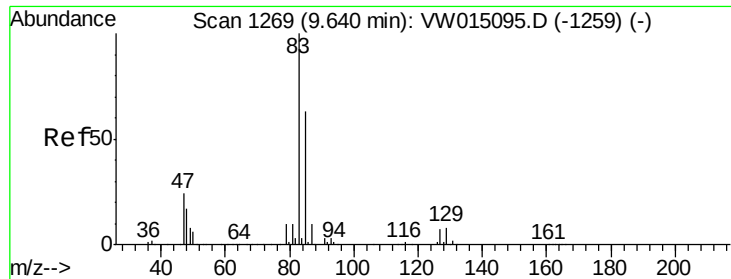
Ion Ratio Lower Upper

93 100

95 82.4 66.6 100.0

174 72.8 60.6 91.0





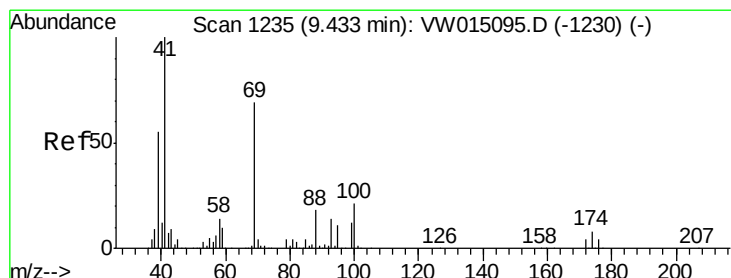
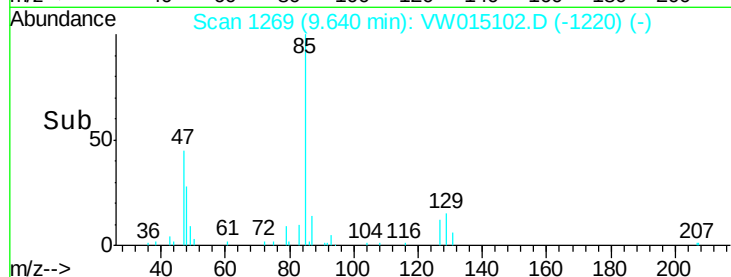
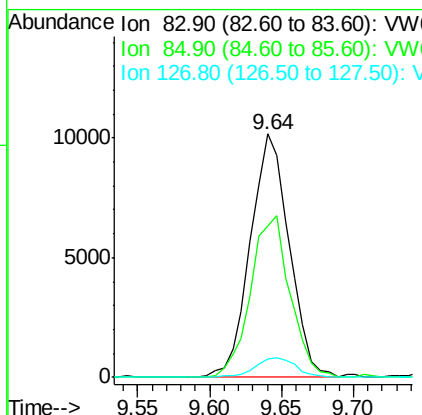
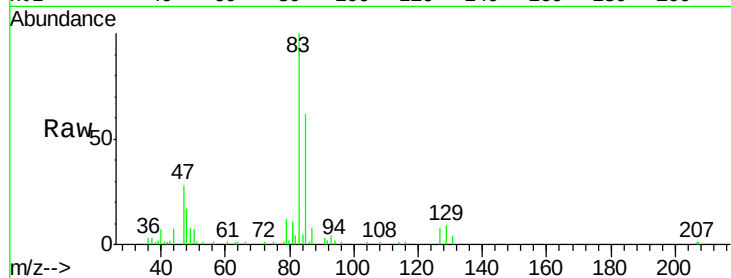
#47
Bromodichloromethane
Concen: 2.430 ug/l
RT: 9.64 min Scan# 1269
Delta R.T. 0.00 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
83	100		
85	62.2	50.7	76.1
127	7.6	5.5	8.3

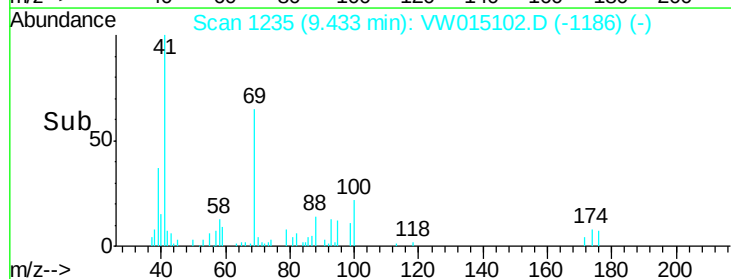
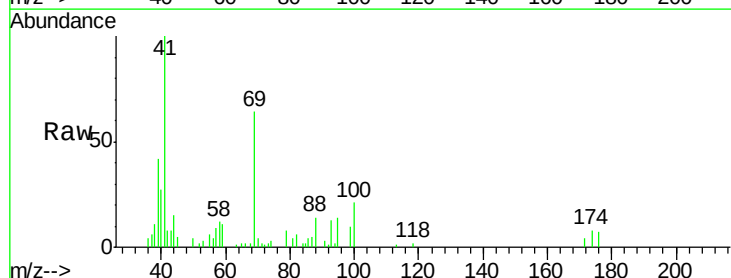
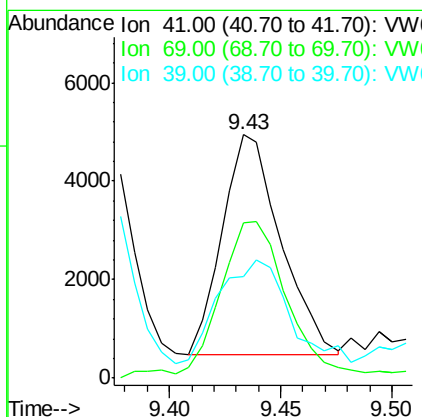
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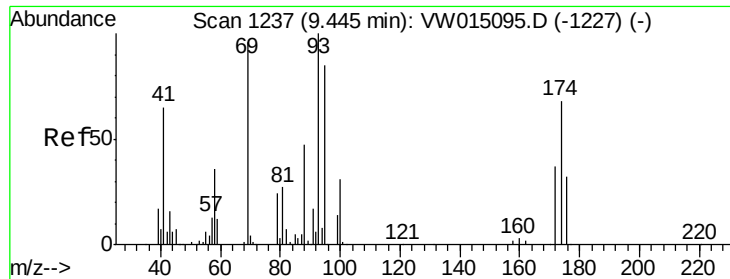
MMDadoda
3/11/2020 3:24:11 PM



#48
Methyl methacrylate
Concen: 2.184 ug/l
RT: 9.43 min Scan# 1235
Delta R.T. 0.00 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Tgt Ion	Ratio	Lower	Upper
41	100		
69	85.4	58.7	88.1
39	68.4	45.1	67.7#





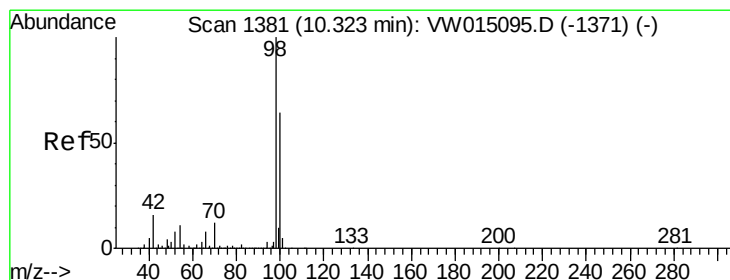
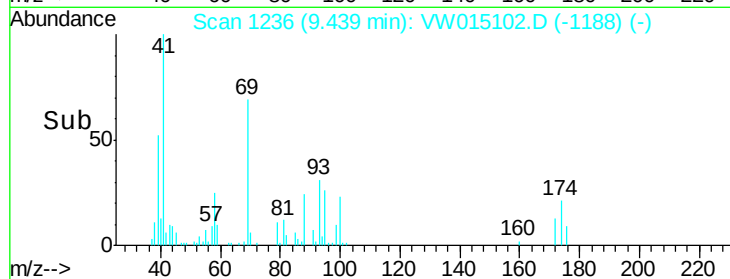
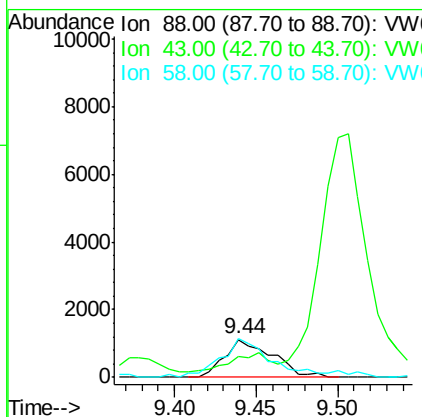
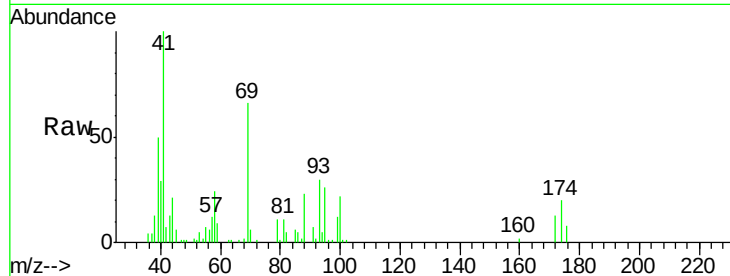
#49
1,4-Dioxane
Concen: 51.035 ug/l
RT: 9.44 min Scan# 1236
Delta R.T. -0.01 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
88	100		
43	38.4	35.8	53.8
58	107.3	64.0	96.0#

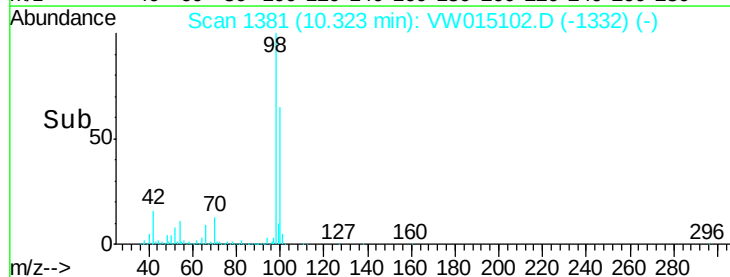
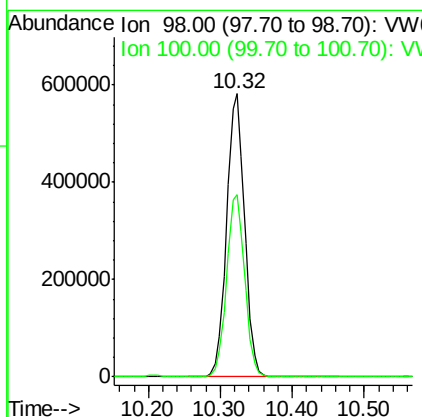
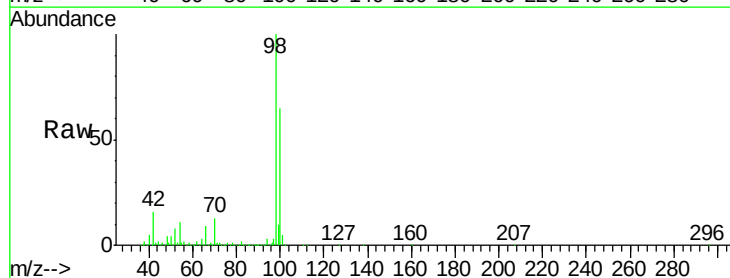
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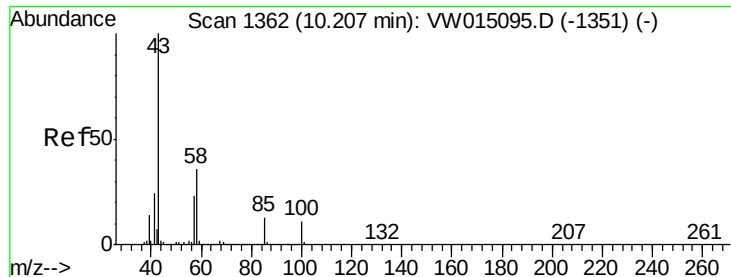
MMDadoda
3/11/2020 3:24:11 PM



#50
Toluene-d8
Concen: 52.089 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.2	78.2





#51

4-Methyl-2-Pentanone

Concen: 13.680 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion: 43 Resp: 60750

Ion Ratio Lower Upper

43 100

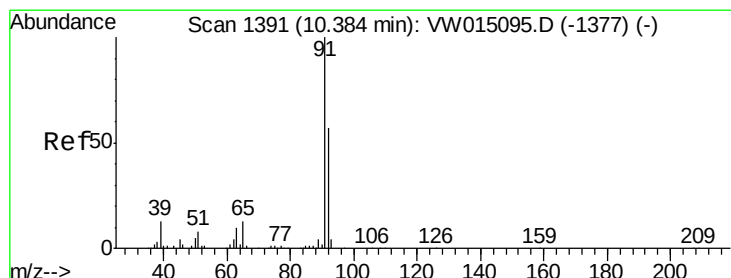
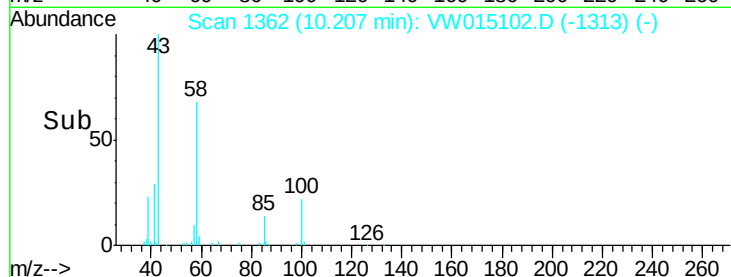
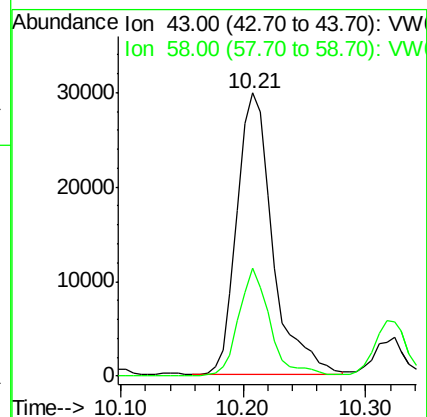
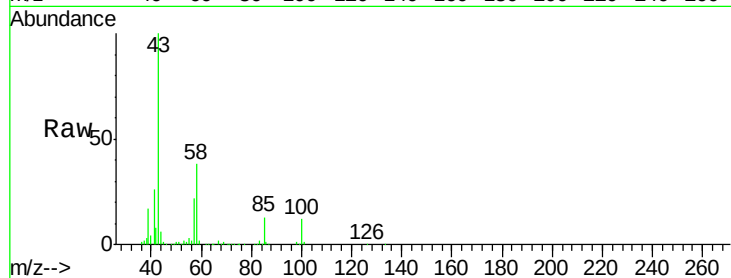
58 33.6 28.0 42.0

Manual Integrations

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#52

Toluene

Concen: 2.584 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW015102.D

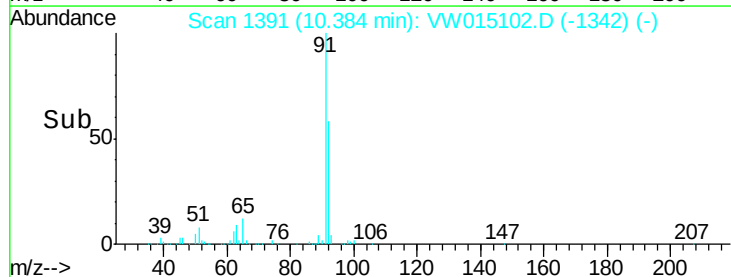
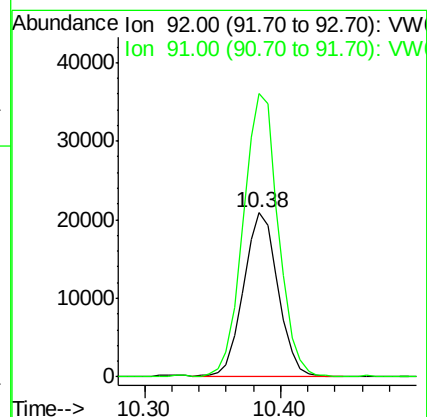
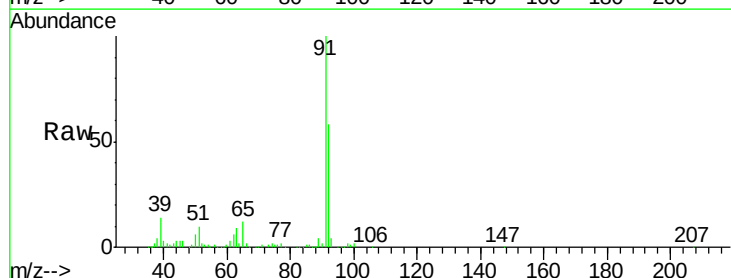
Acq: 09 Mar 2020 17:23

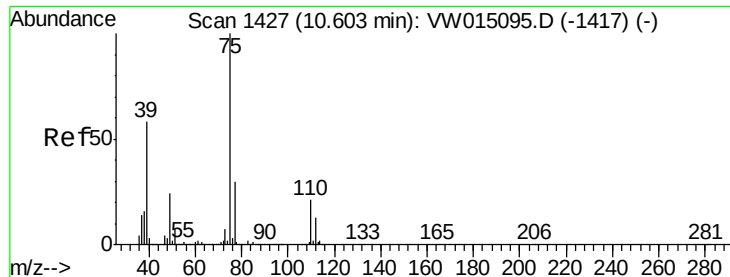
Tgt Ion: 92 Resp: 37115

Ion Ratio Lower Upper

92 100

91 173.0 138.9 208.3





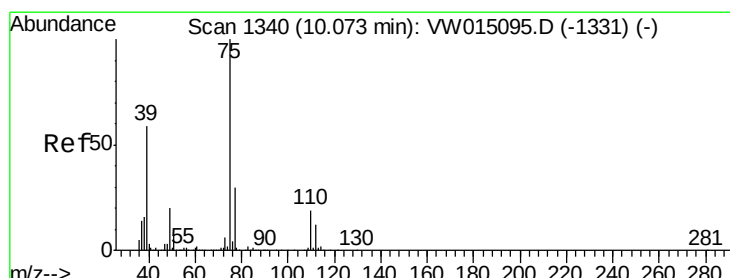
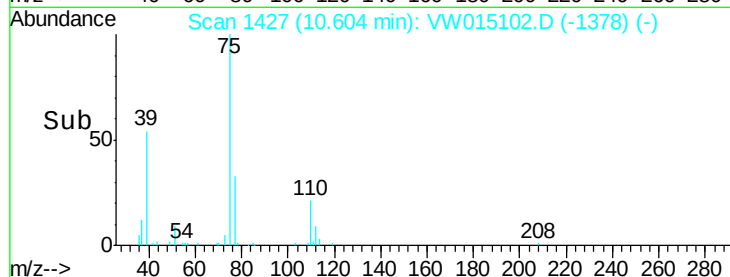
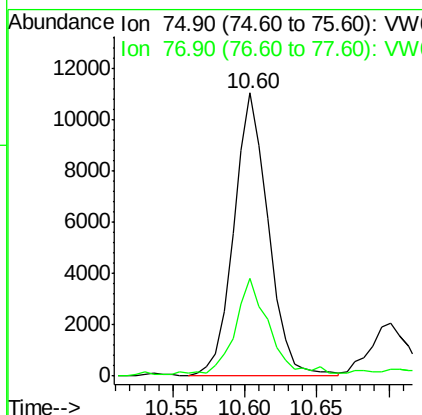
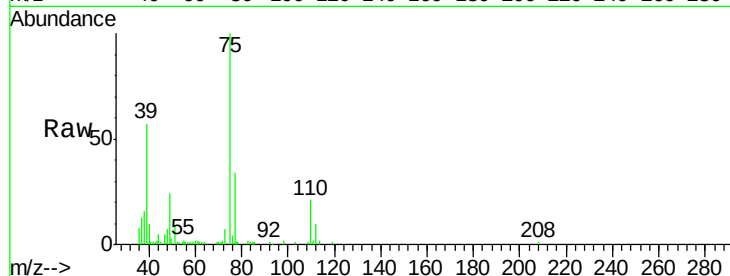
#53
t-1,3-Dichloropropene
Concen: 2.396 ug/l
RT: 10.60 min Scan# 1427
Delta R.T. 0.00 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
75	100		
77	33.3	24.4	36.6

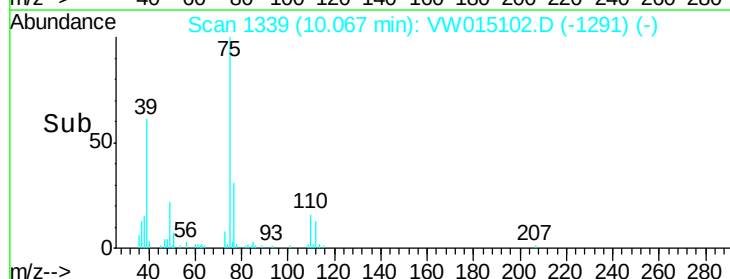
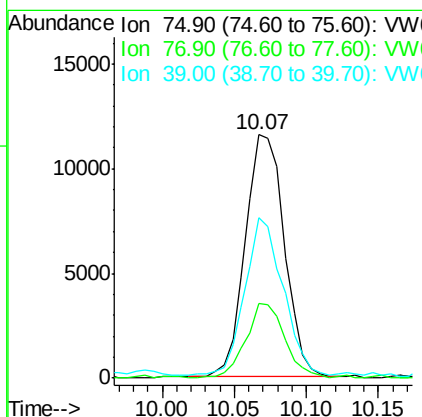
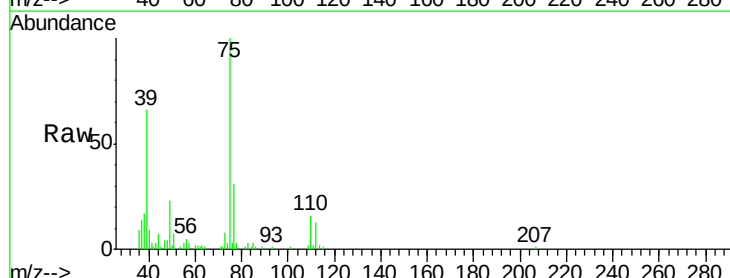
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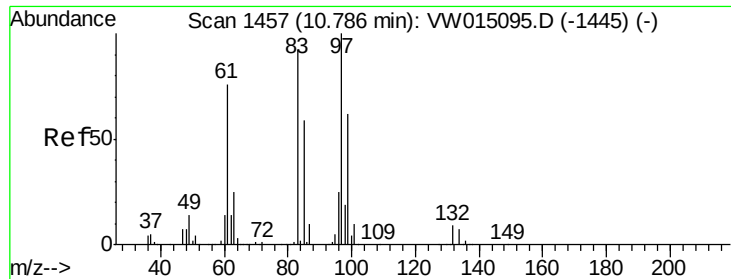
MMDadoda
3/11/2020 3:24:11 PM



#54
cis-1,3-Dichloropropene
Concen: 2.311 ug/l
RT: 10.07 min Scan# 1339
Delta R.T. -0.01 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Tgt Ion	Ratio	Lower	Upper
75	100		
77	30.8	24.3	36.5
39	65.2	47.0	70.6





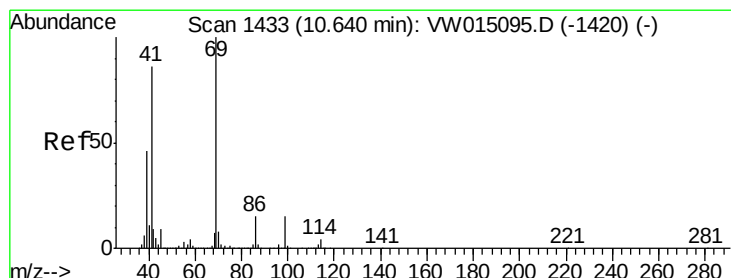
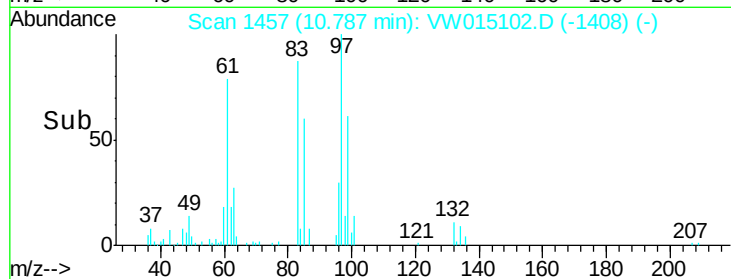
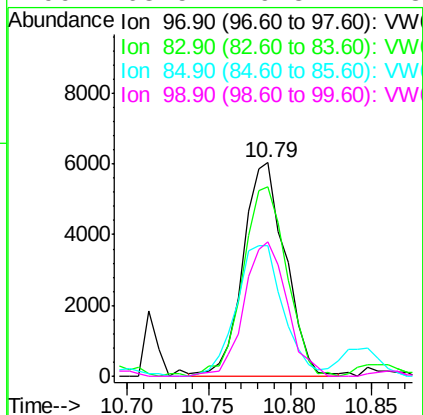
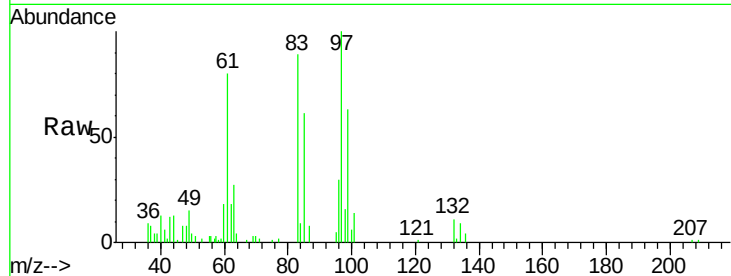
#55
 1,1,2-Trichloroethane
 Concen: 2.712 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. 0.00 min
 Lab File: VW015102.D
 Acq: 09 Mar 2020 17:23

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2020

Tot Ion:	97	Resp:	10882
Ion	Ratio	Lower	Upper
97	100		
83	89.6	74.0	111.0
85	61.6	46.9	70.3
99	63.5	49.8	74.8

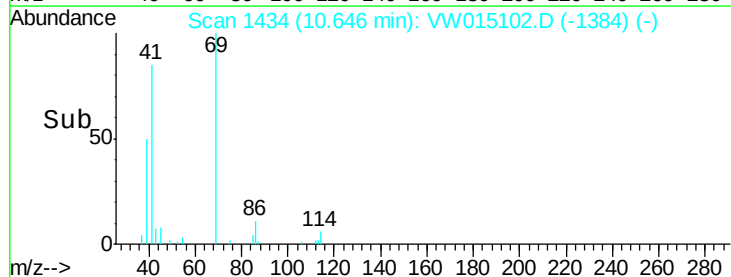
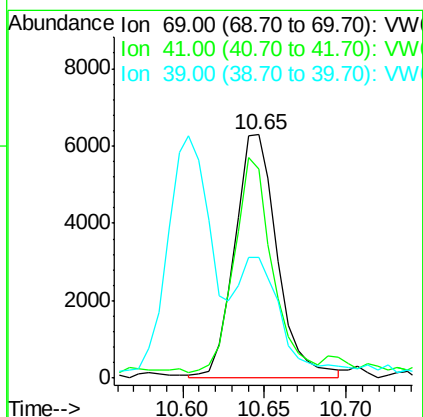
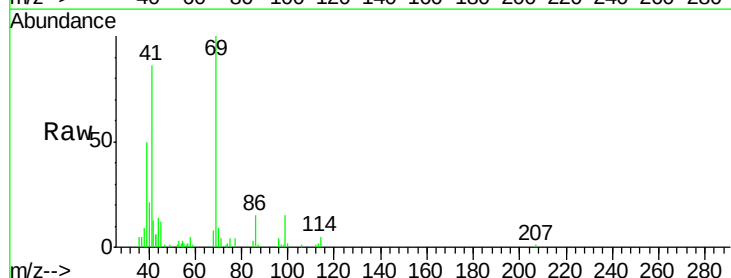
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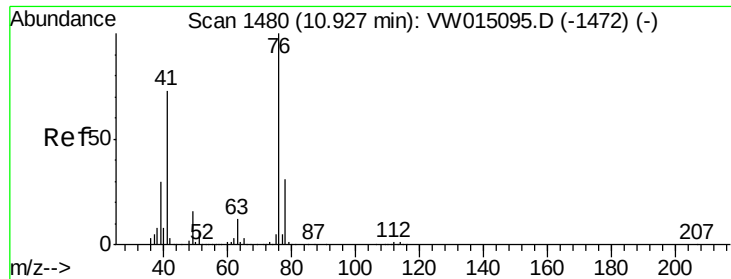
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 3/11/2020 3:24:11 PM



#56
 Ethyl methacrylate
 Concen: 2.225 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. 0.01 min
 Lab File: VW015102.D
 Acq: 09 Mar 2020 17:23

Tgt Ion:	69	Resp:	11521
Ion	Ratio	Lower	Upper
69	100		
41	78.8	65.8	98.6
39	42.7	31.2	46.8





#57

1,3-Dichloropropane

Concen: 2.512 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. 0.01 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion: 76 Resp: 19187

Ion Ratio Lower Upper

76 100

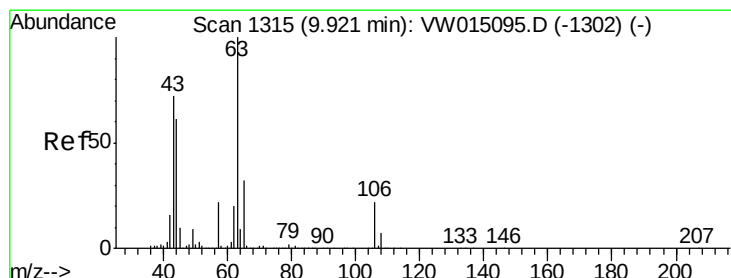
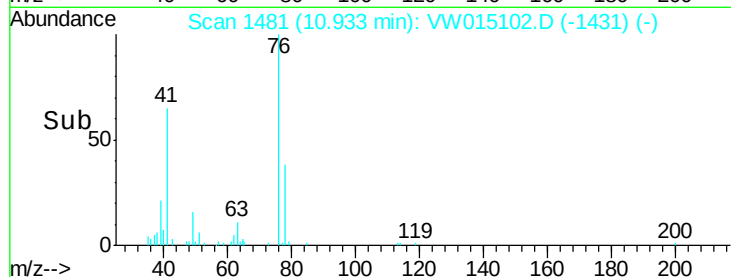
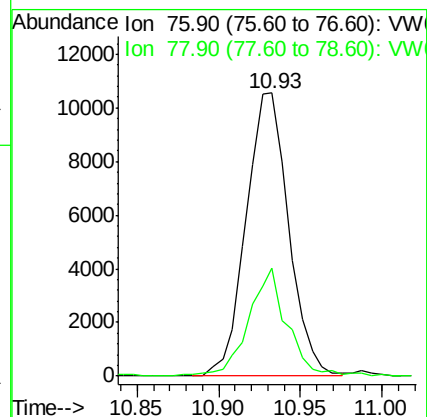
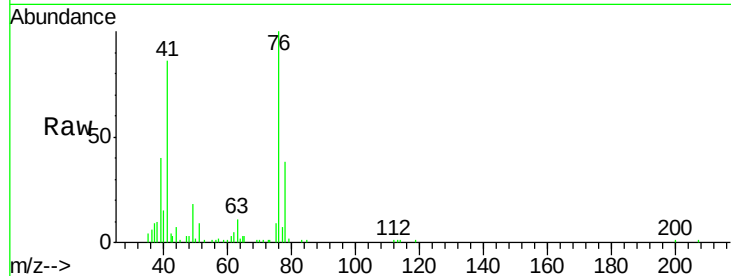
78 34.7 25.3 37.9

Manual Integrations

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3/11/2020 3:24:11 PM



#58

2-Chloroethyl Vinyl ether

Concen: 11.530 ug/l

RT: 9.92 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VW015102.D

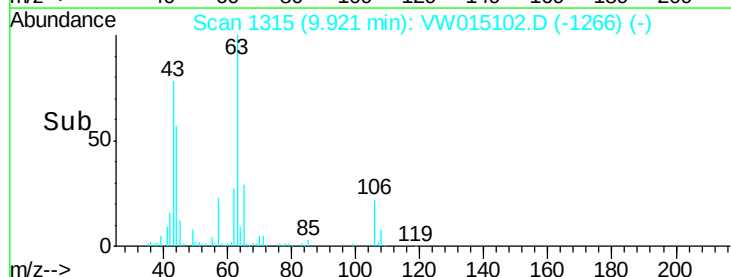
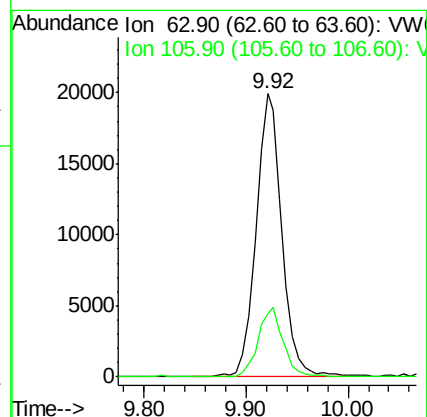
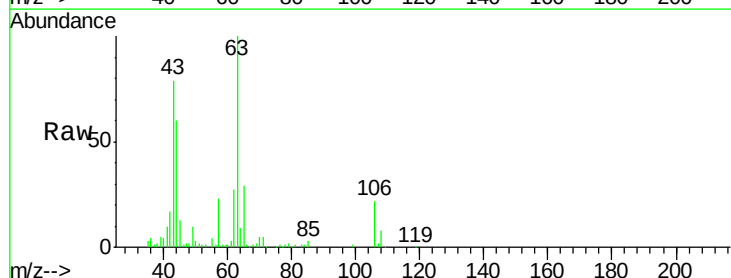
Acq: 09 Mar 2020 17:23

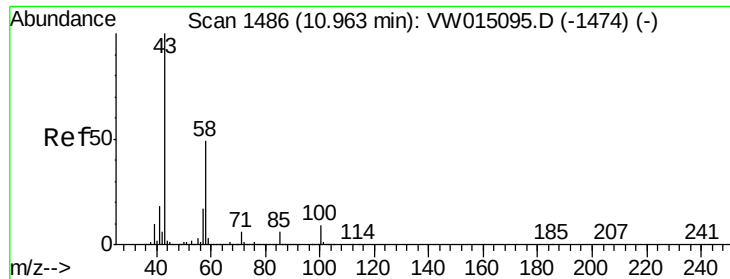
Tgt Ion: 63 Resp: 35026

Ion Ratio Lower Upper

63 100

106 24.1 18.0 27.0





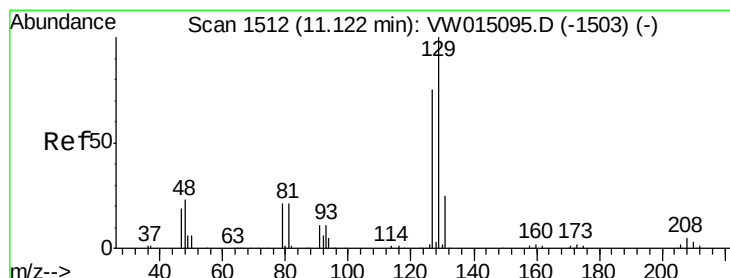
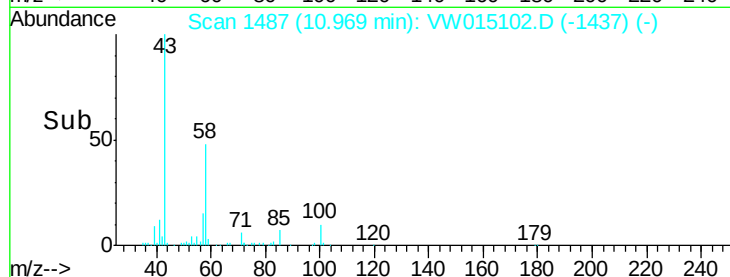
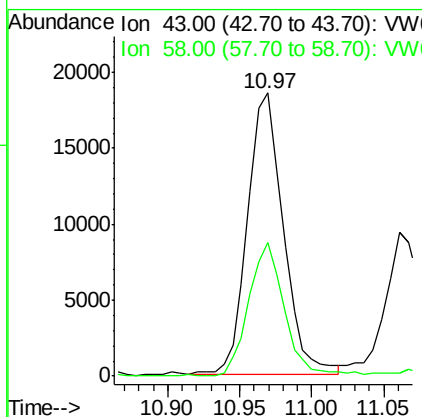
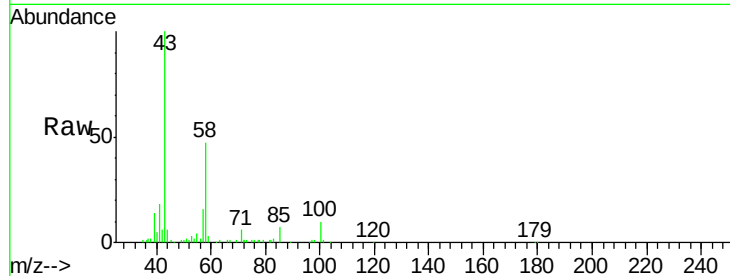
#59
2-Hexanone
Concen: 11.452 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. 0.01 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion	43	Resp	31766
Ion Ratio	100	Lower	Upper
43	100		
58	47.6	24.6	73.8

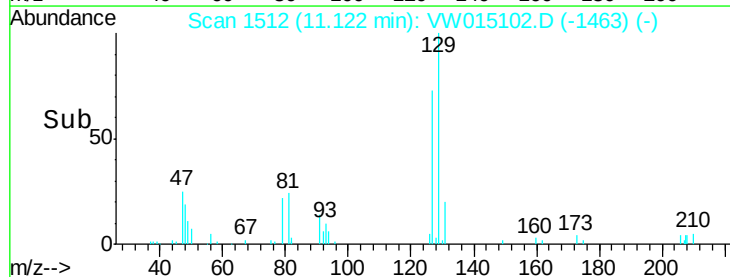
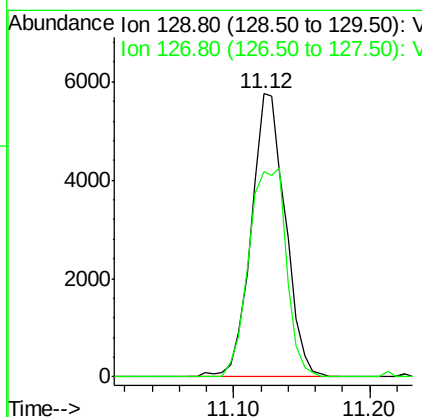
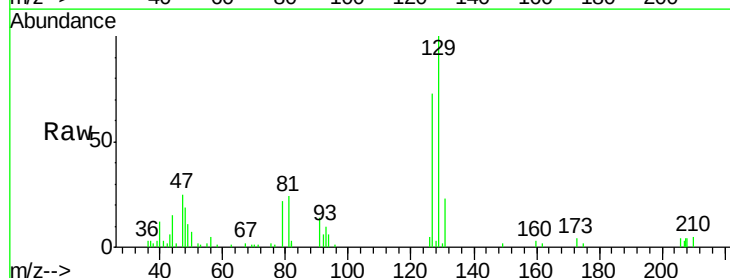
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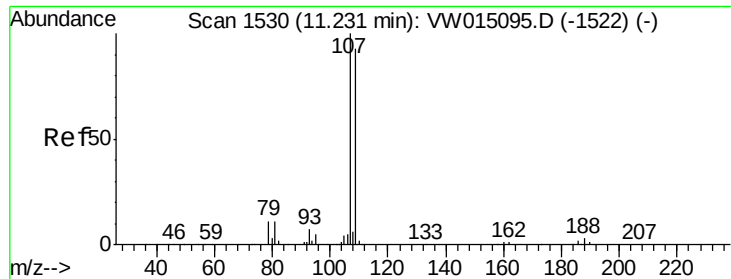
MMDadoda
3/11/2020 3:24:11 PM



#60
Dibromochloromethane
Concen: 2.439 ug/l
RT: 11.12 min Scan# 1512
Delta R.T. 0.00 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Tgt Ion	129	Resp	10108
Ion Ratio	100	Lower	Upper
129	100		
127	81.1	38.7	116.1





#61

1,2-Dibromoethane

Concen: 2.708 ug/l

RT: 11.23 min Scan# 1530

Delta R.T. 0.00 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion: 107 Resp: 9634

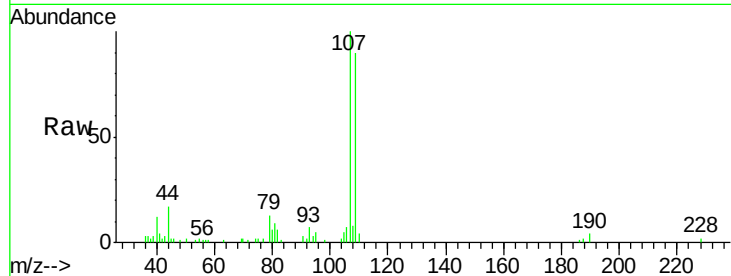
Ion Ratio Lower Upper

107 100

109 91.2 75.3 112.9

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.23

6000

5000

4000

3000

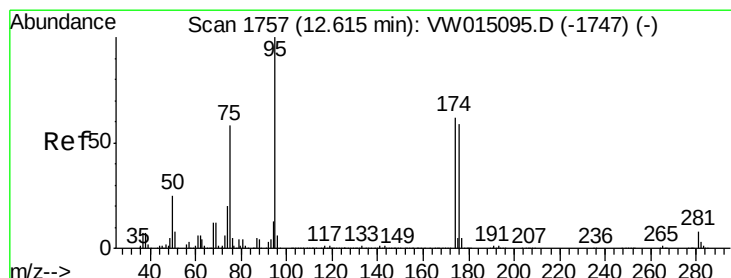
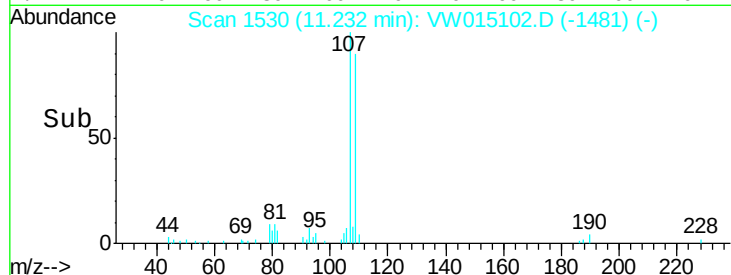
2000

1000

0

Time-->

11.15 11.20 11.25 11.30



#62

4-Bromofluorobenzene

Concen: 50.187 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

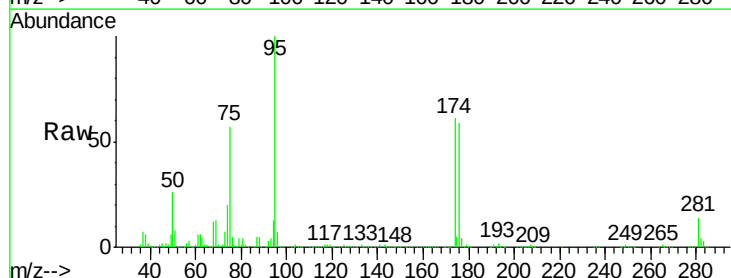
Tgt Ion: 95 Resp: 324304

Ion Ratio Lower Upper

95 100

174 62.1 0.0 126.8

176 60.0 0.0 121.6



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

250000

200000

150000

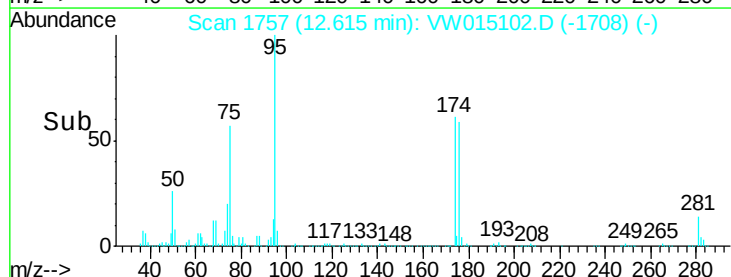
100000

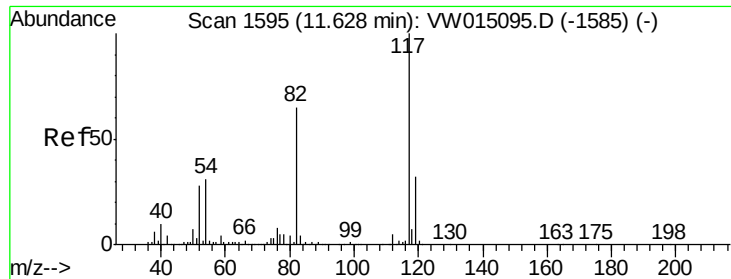
50000

0

Time-->

12.60 12.70





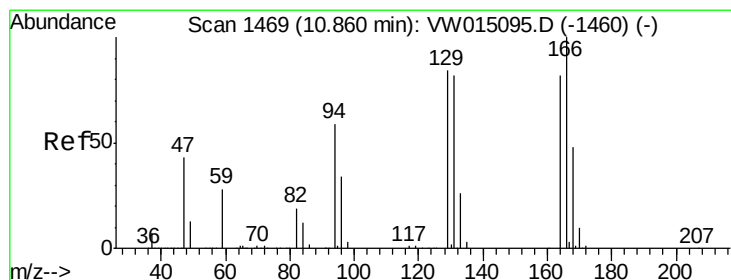
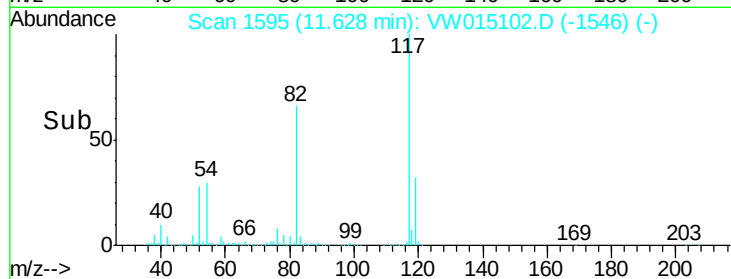
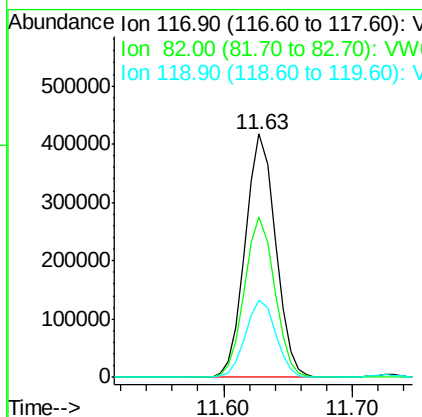
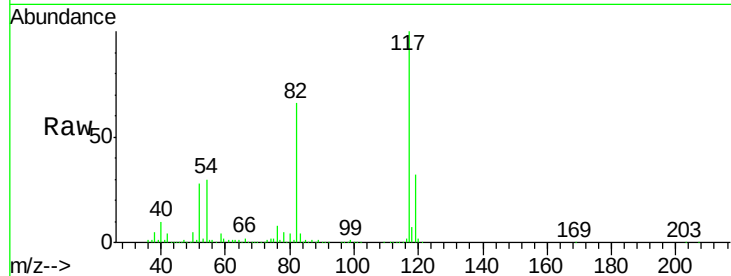
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. 0.00 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
117	100		
82	65.8	52.2	78.2
119	31.6	25.4	38.0

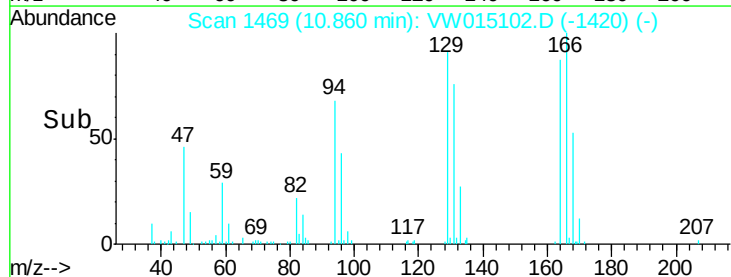
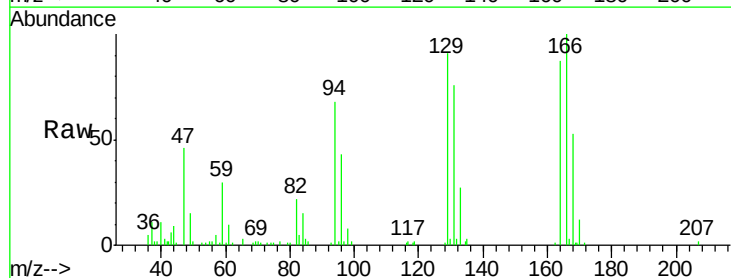
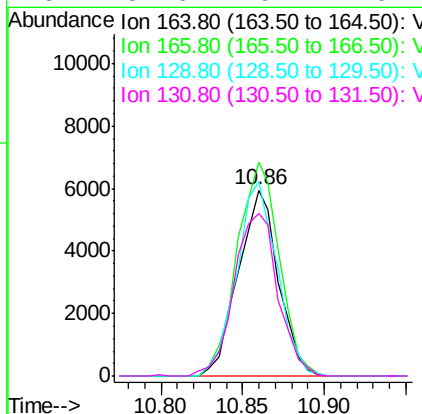
Manual Integrations
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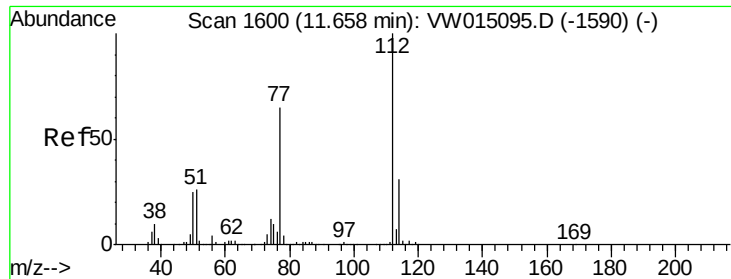
MMDadoda
3/11/2020 3:24:11 PM



#64
Tetrachloroethene
Concen: 2.605 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Tgt Ion	Ratio	Lower	Upper
164	100		
166	115.0	97.0	145.6
129	104.7	81.2	121.8
131	87.6	79.4	119.2





#65

Chlorobenzene

Concen: 2.542 ug/l

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion:112 Resp: 34692

Ion Ratio Lower Upper

112 100

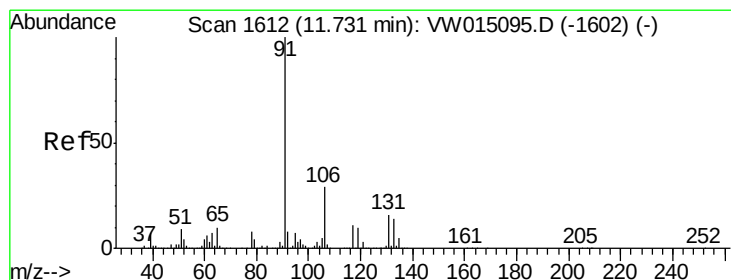
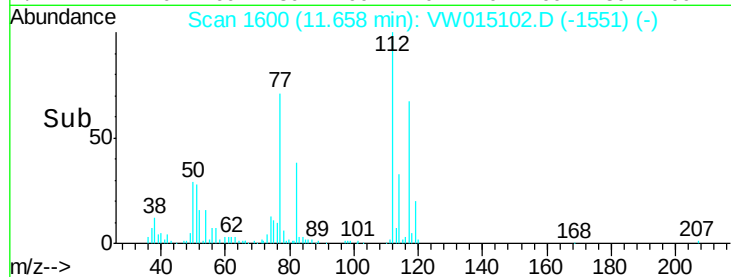
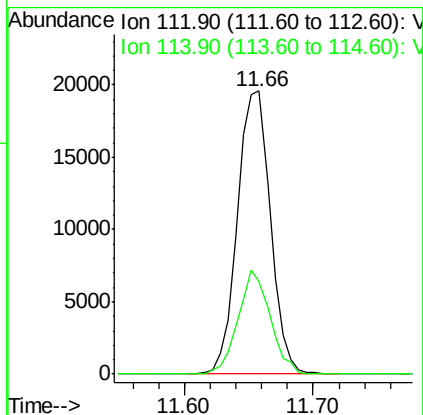
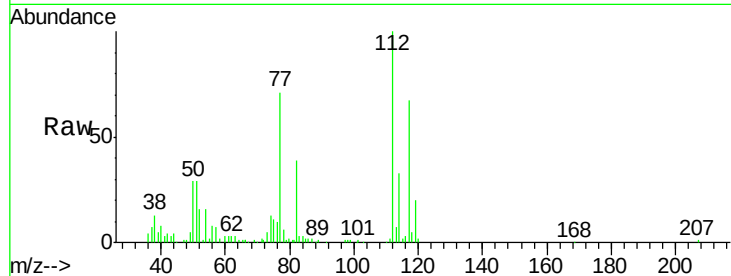
114 32.9 25.0 37.6

Manual Integrations

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#66

1,1,1,2-Tetrachloroethane

Concen: 2.467 ug/l

RT: 11.73 min Scan# 1611

Delta R.T. -0.01 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

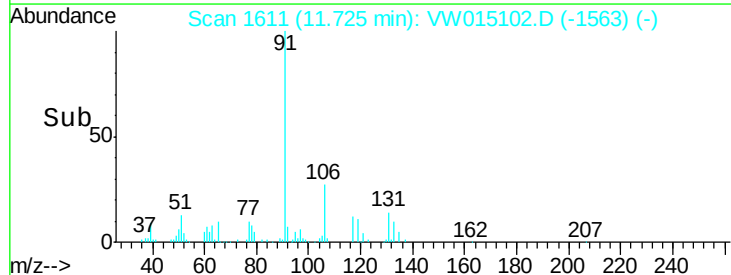
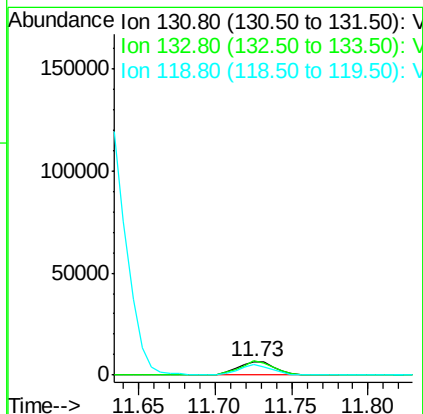
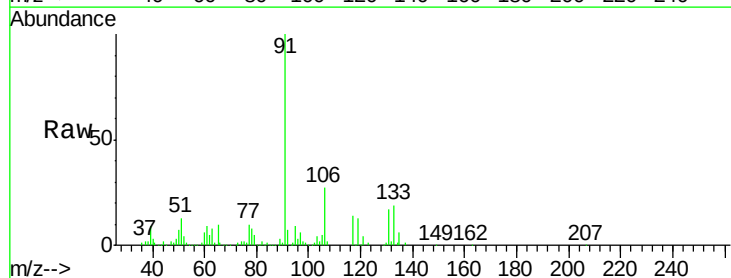
Tgt Ion:131 Resp: 11214

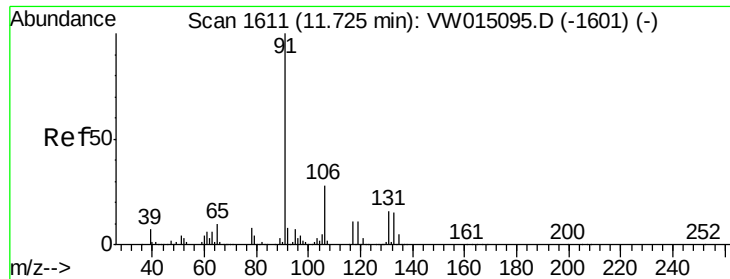
Ion Ratio Lower Upper

131 100

133 99.9 47.3 141.8

119 70.9 34.0 101.8





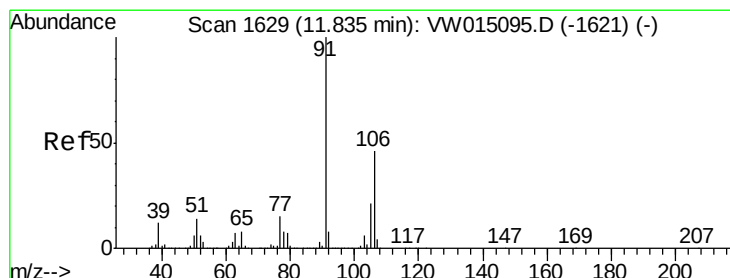
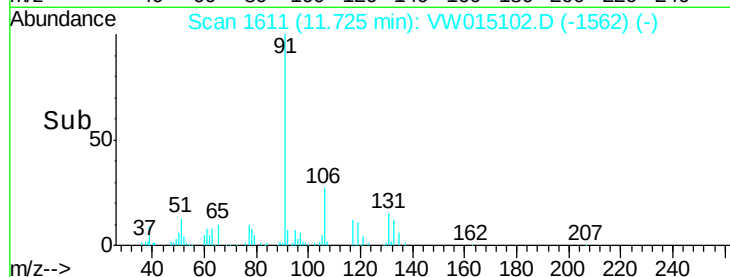
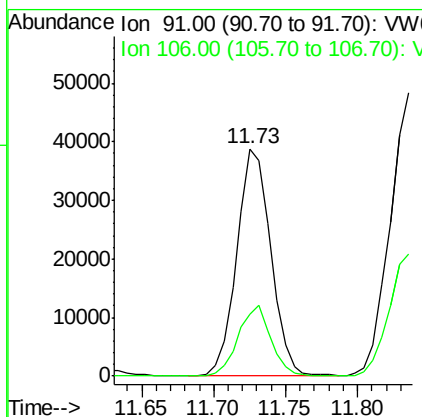
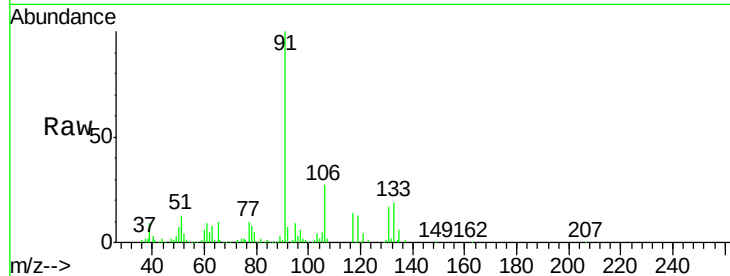
#67
Ethyl Benzene
Concen: 2.406 ug/l
RT: 11.73 min Scan# 1611
Delta R.T. 0.00 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion: 91 Resp: 63913
Ion Ratio Lower Upper
91 100
106 27.0 22.8 34.2

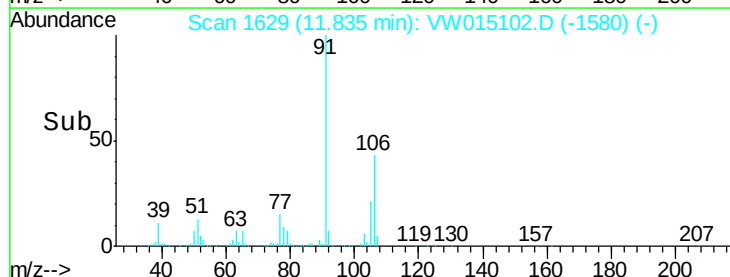
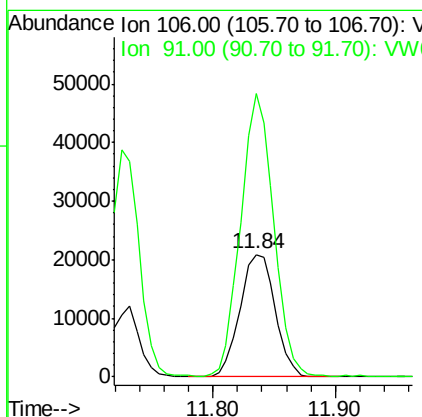
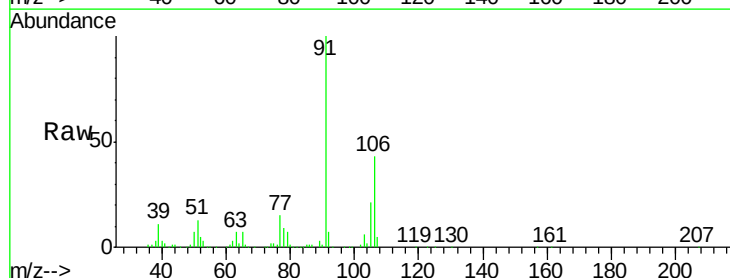
Manual Integrations
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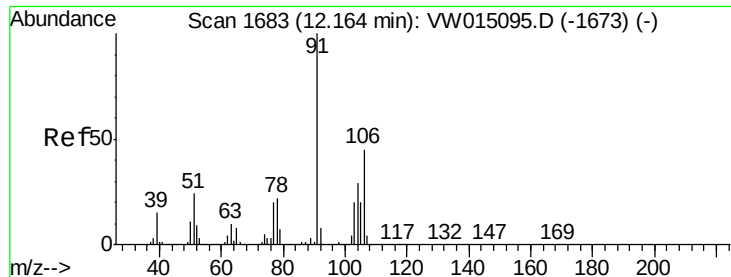
MMDadoda
3/11/2020 3:24:11 PM



#68
m/p-Xylenes
Concen: 4.456 ug/l
RT: 11.84 min Scan# 1629
Delta R.T. 0.00 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Tgt Ion: 106 Resp: 41839
Ion Ratio Lower Upper
106 100
91 214.9 172.3 258.5





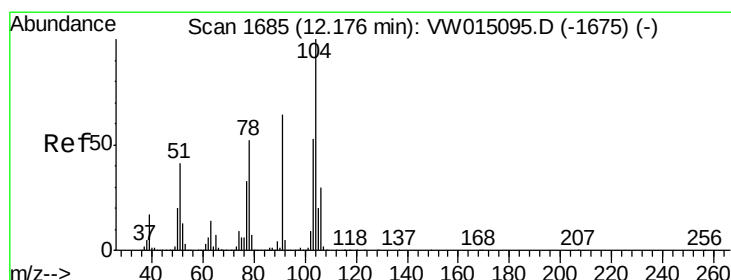
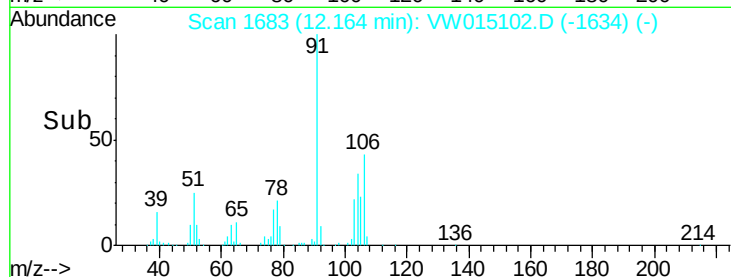
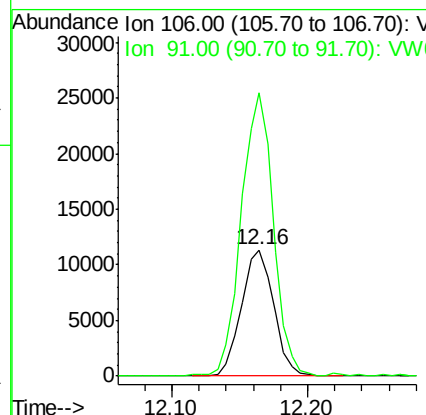
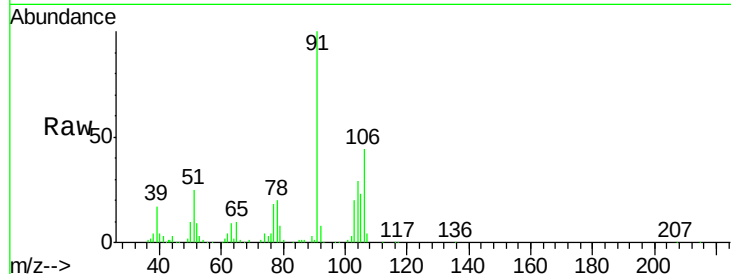
#69
o-Xylene
Concen: 2.232 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion:106 Resp: 18878
Ion Ratio Lower Upper
106 100
91 221.7 112.6 337.8

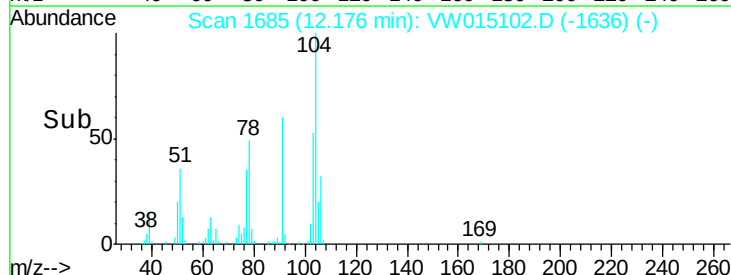
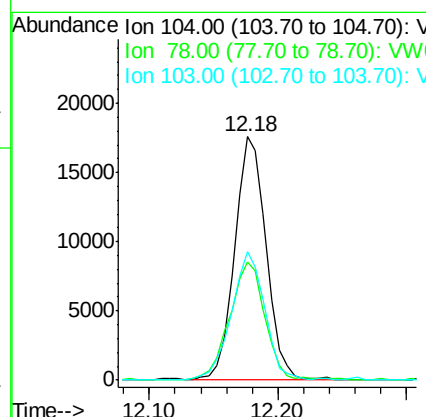
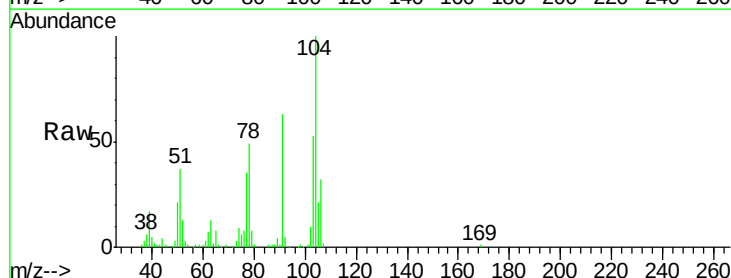
Manual Integrations
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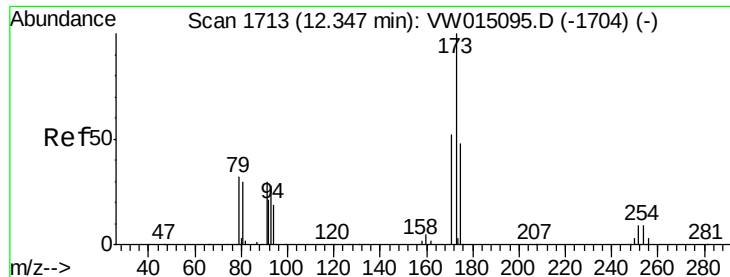
MMDadoda
3/11/2020 3:24:11 PM



#70
Styrene
Concen: 2.063 ug/l
RT: 12.18 min Scan# 1685
Delta R.T. 0.00 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Tgt Ion:104 Resp: 29902
Ion Ratio Lower Upper
104 100
78 54.6 44.7 67.1
103 56.2 44.7 67.1





#71

Bromoform

Concen: 2.498 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

Instrument :

MSVOA_W

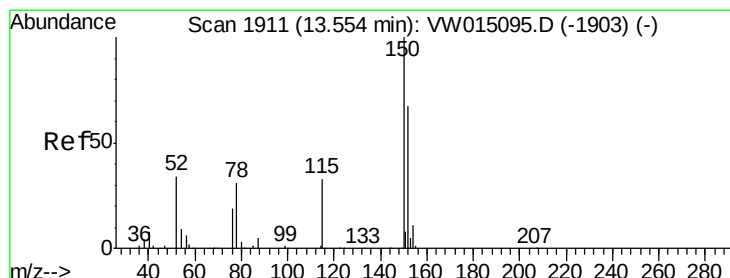
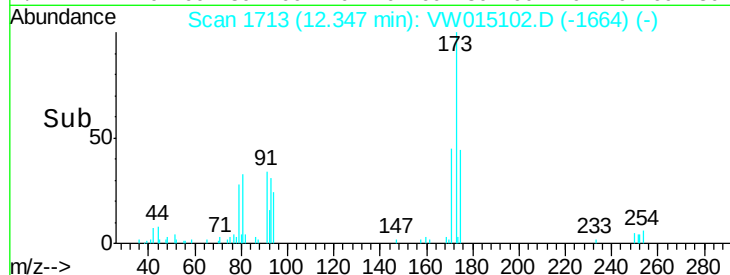
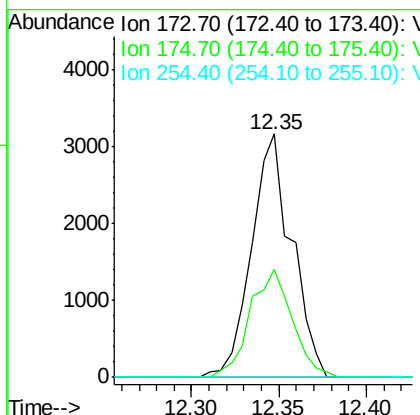
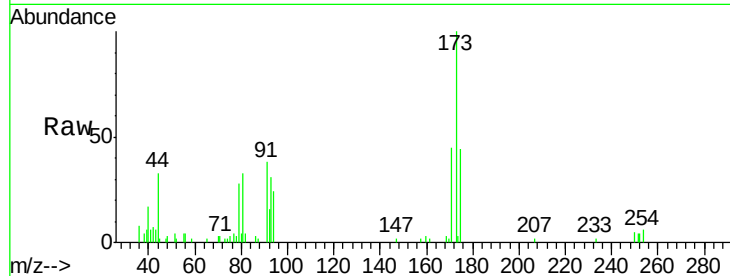
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion:	173	Resp:	5039
Ion Ratio	Lower	Upper	
173	100		
175	46.7	23.8	71.4
254	0.0	0.1	0.1#

Manual Integrations
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3/11/2020 3:24:11 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

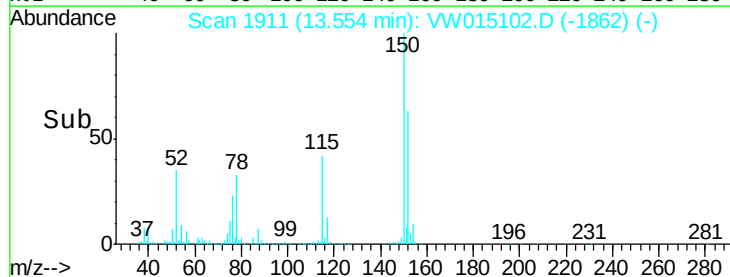
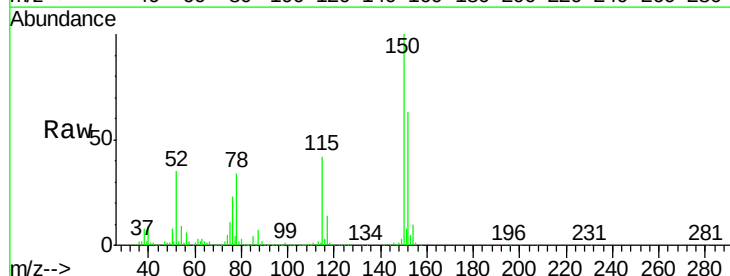
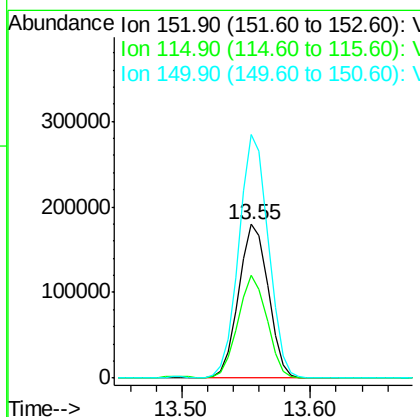
RT: 13.55 min Scan# 1911

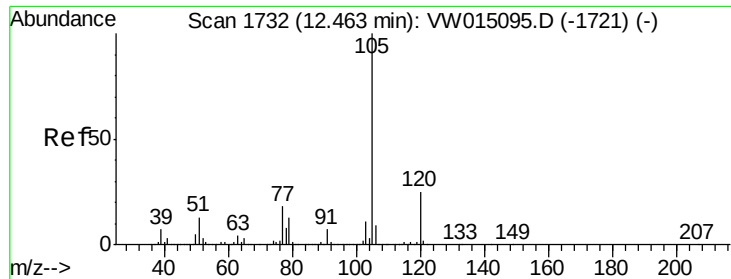
Delta R.T. 0.00 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

Tgt Ion:	152	Resp:	286159
Ion Ratio	Lower	Upper	
152	100		
115	65.3	33.3	99.9
150	157.4	0.0	351.2





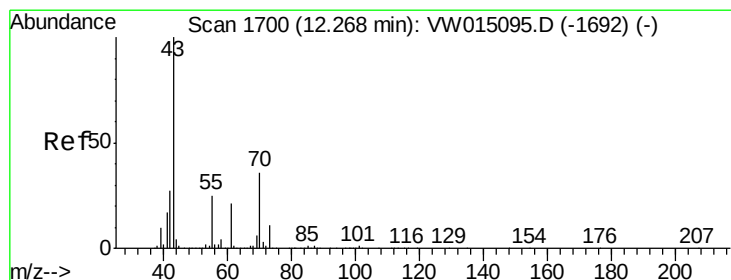
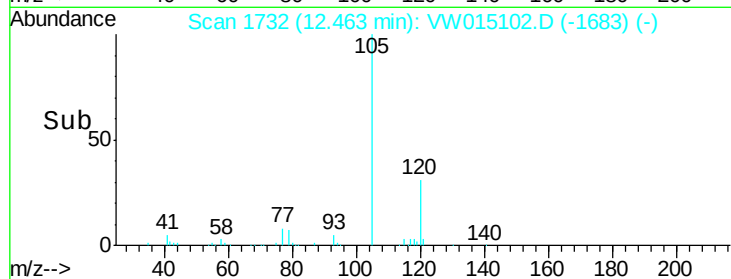
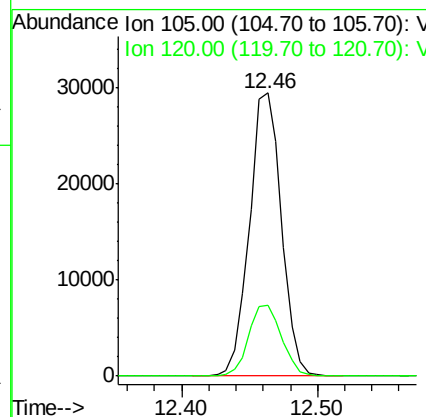
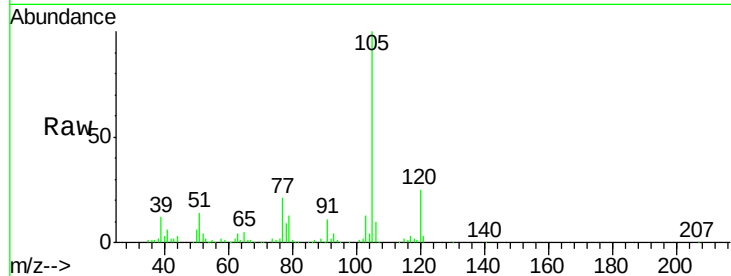
#73
Isopropylbenzene
Concen: 2.222 ug/l
RT: 12.46 min Scan# 1732
Delta R.T. 0.00 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
105	100		
120	25.9	12.6	37.8

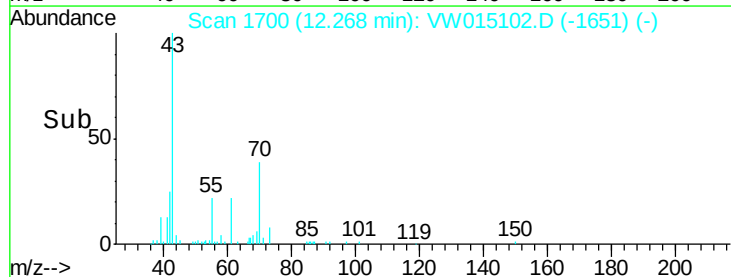
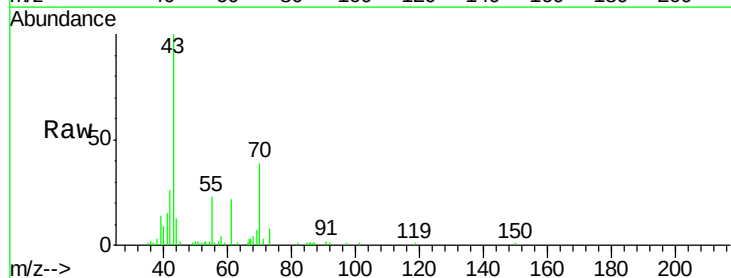
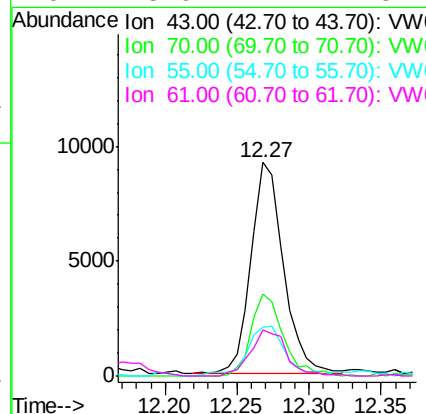
Manual Integrations
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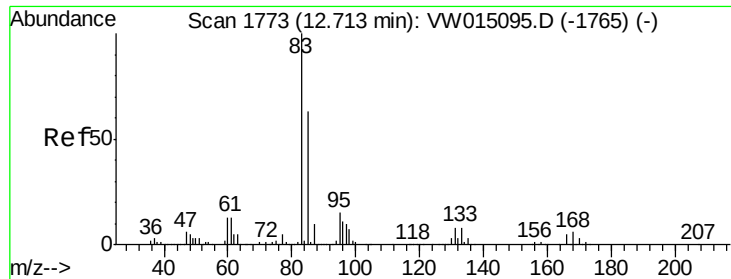
MMDadoda
3/11/2020 3:24:11 PM



#74
N-ethyl acetate
Concen: 2.236 ug/l
RT: 12.27 min Scan# 1700
Delta R.T. 0.00 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Tgt Ion	Ratio	Lower	Upper
43	100		
70	38.2	29.4	44.2
55	27.2	20.3	30.5
61	23.9	17.1	25.7





#75

1,1,2,2-Tetrachloroethane

Concen: 3.166 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

Instrument :

MSVOA_W

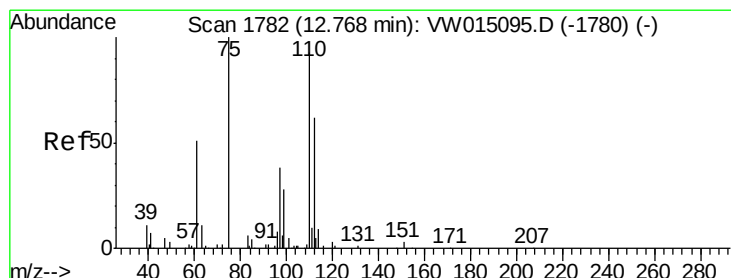
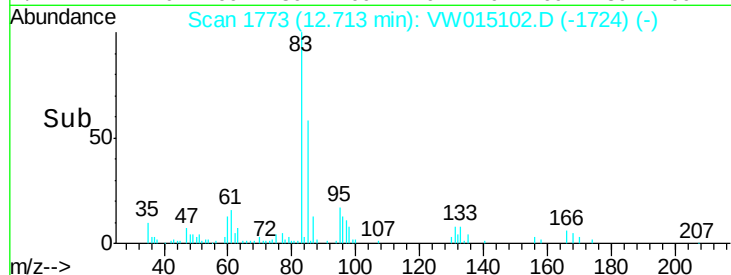
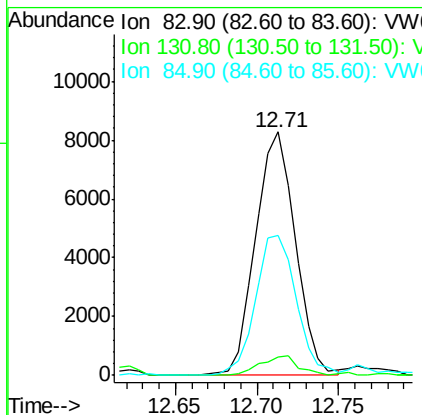
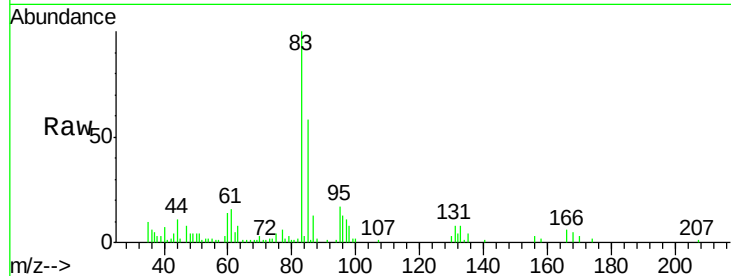
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion:	83	Resp:	14053
Ion Ratio	Lower	Upper	
83	100		
131	7.8	4.3	13.1
85	58.8	31.5	94.5

Manual Integrations
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3/11/2020 3:24:11 PM



#76

1,2,3-Trichloropropane

Concen: 3.163 ug/l m

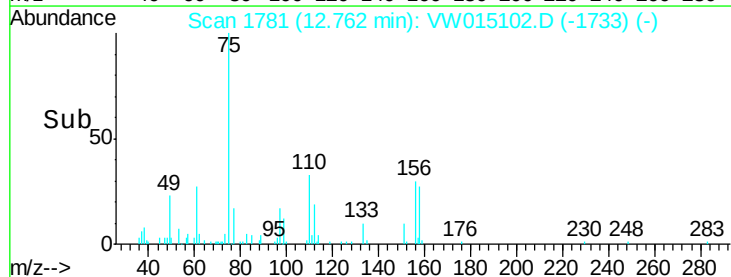
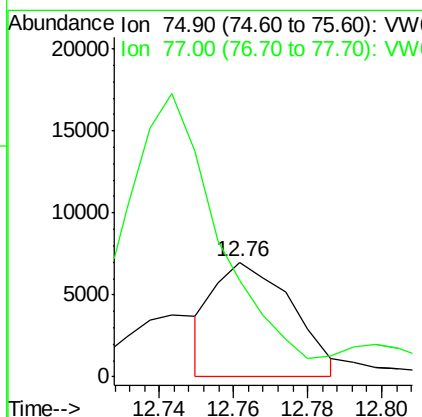
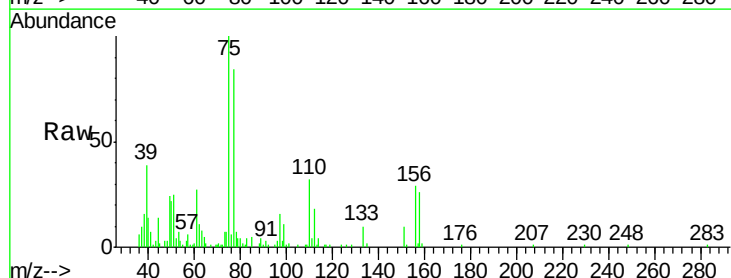
RT: 12.76 min Scan# 1781

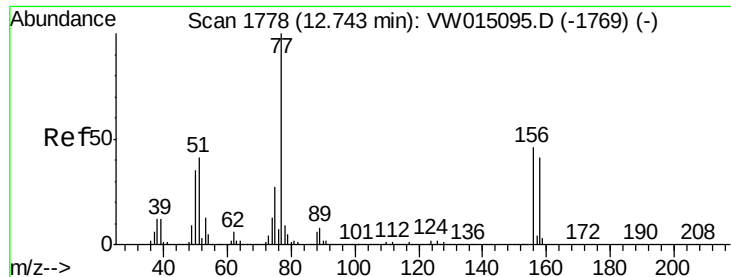
Delta R.T. -0.01 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

Tgt Ion:	75	Resp:	10229
Ion Ratio	Lower	Upper	
75	100		
77	306.7	0.0	0.0#





#77

Bromobenzene

Concen: 2.777 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. 0.00 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

Instrument :

MSVOA_W

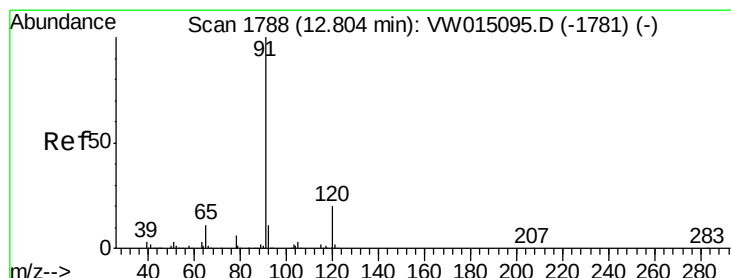
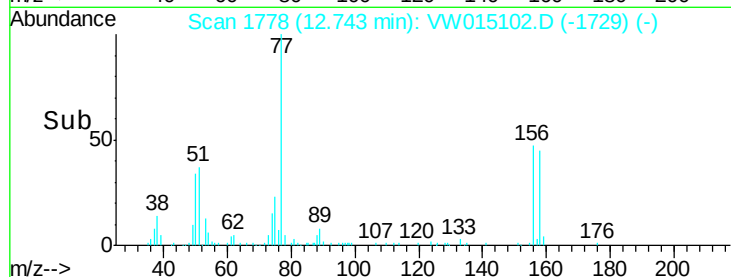
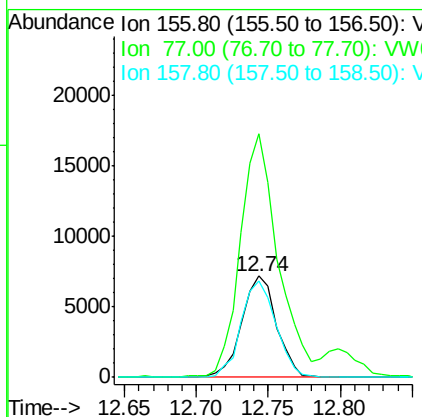
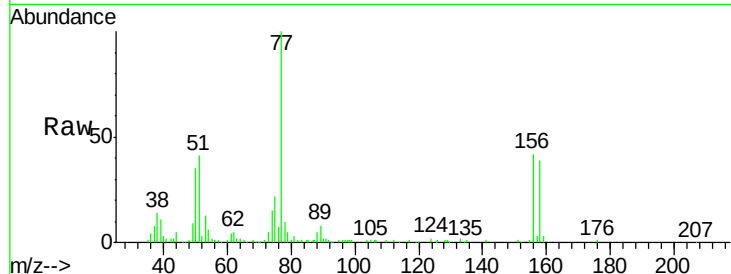
ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion:	156	Resp:	11997
Ion Ratio	Lower	Upper	
156	100		
77	261.5	126.6	379.8
158	95.3	47.4	142.2

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#78

n-propylbenzene

Concen: 2.545 ug/l

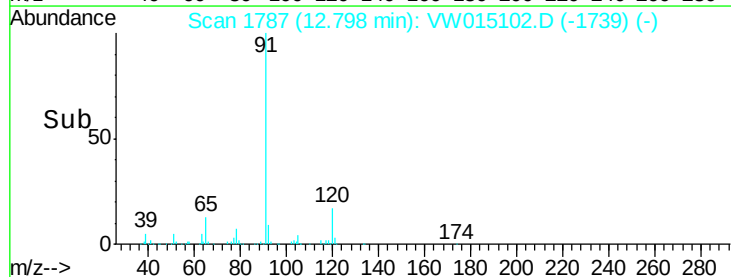
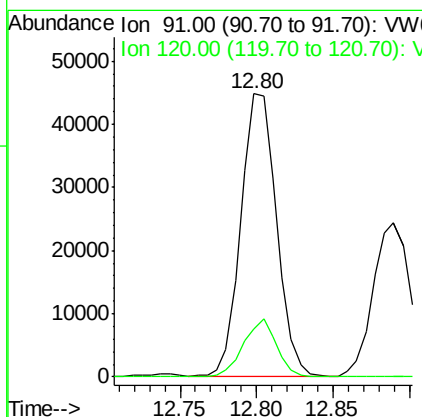
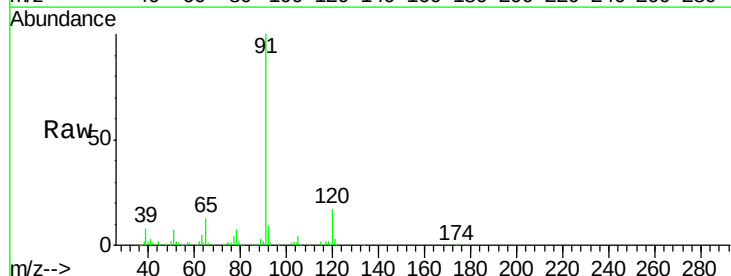
RT: 12.80 min Scan# 1787

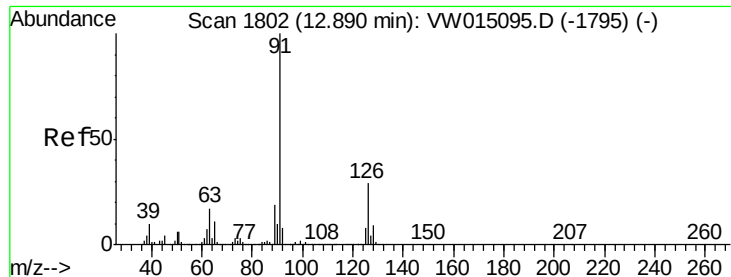
Delta R.T. -0.01 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

Tgt Ion:	91	Resp:	72310
Ion Ratio	Lower	Upper	
91	100		
120	19.0	10.2	30.4





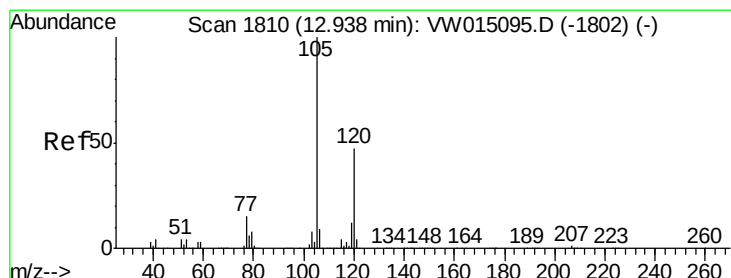
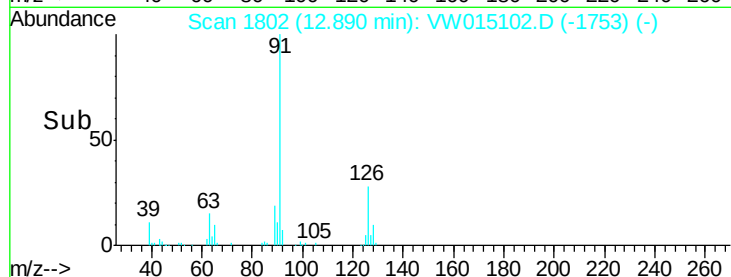
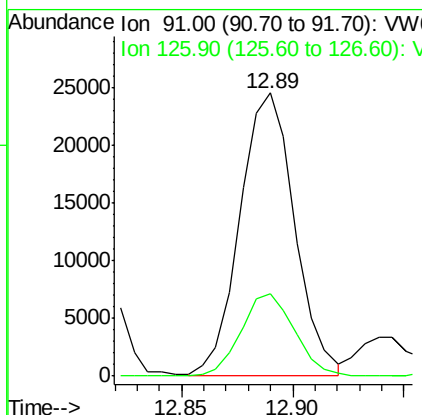
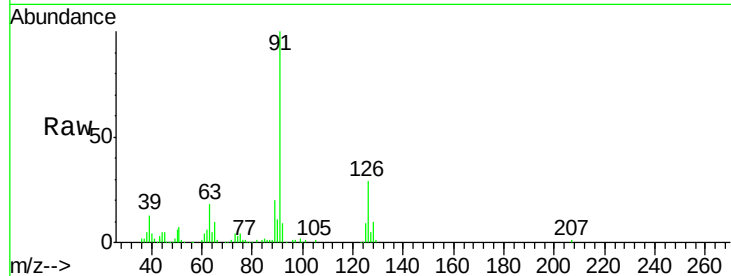
#79
2-Chlorotoluene
Concen: 2.612 ug/l
RT: 12.89 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion: 91 Resp: 41720
Ion Ratio Lower Upper
91 100
126 28.8 14.5 43.6

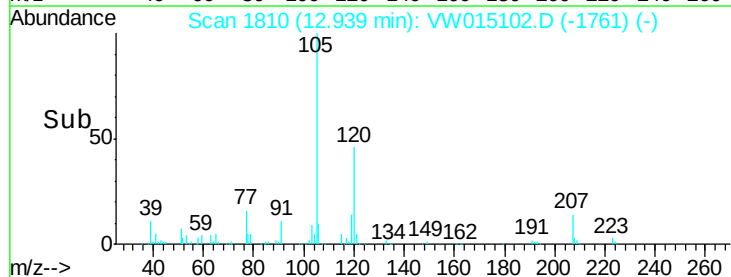
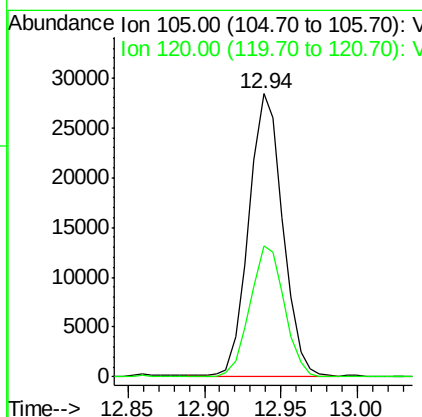
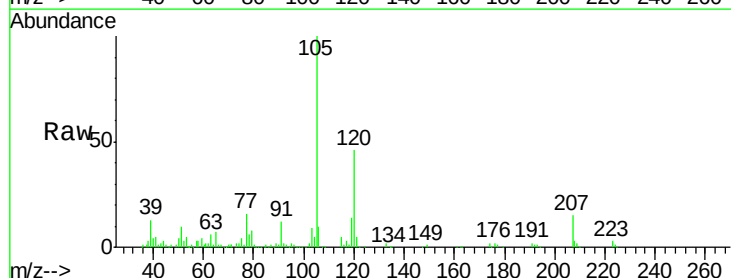
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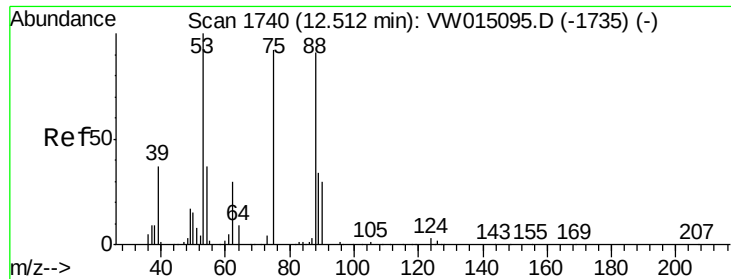
MMDadoda
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#80
1,3,5-Trimethylbenzene
Concen: 2.333 ug/l
RT: 12.94 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Tgt Ion: 105 Resp: 43840
Ion Ratio Lower Upper
105 100
120 46.9 23.3 69.8





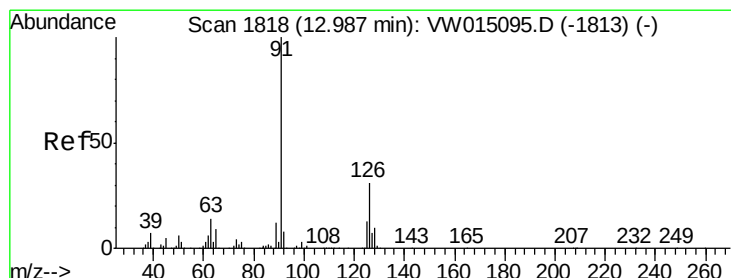
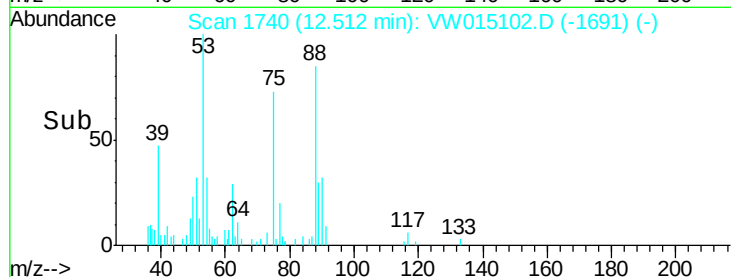
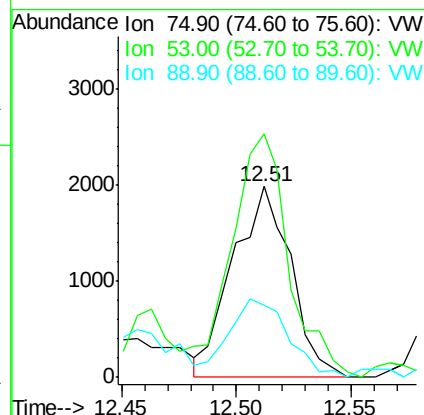
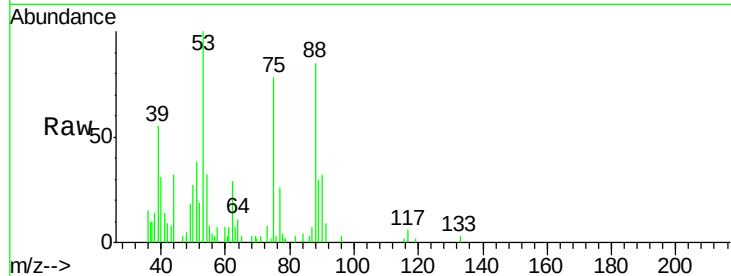
#81
trans-1,4-Dichloro-2-butene
Concen: 2.453 ug/l m
RT: 12.51 min Scan# 1740
Delta R.T. 0.00 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
75	100		
53	19.4	88.4	132.6#
89	23.5	33.1	49.7#

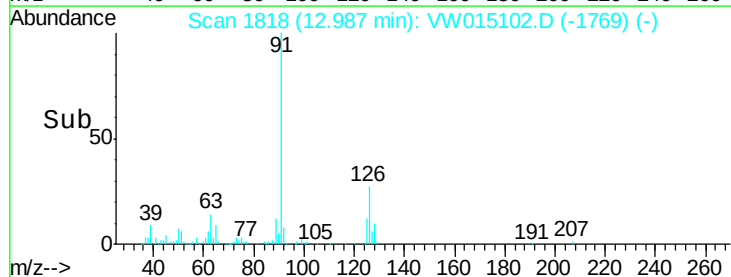
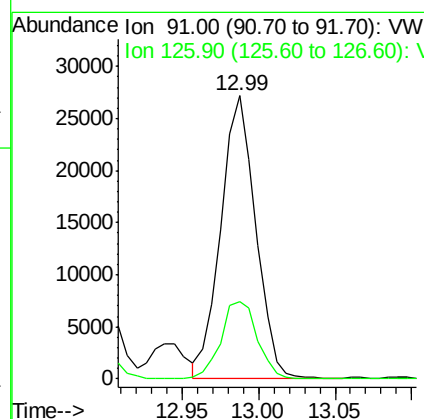
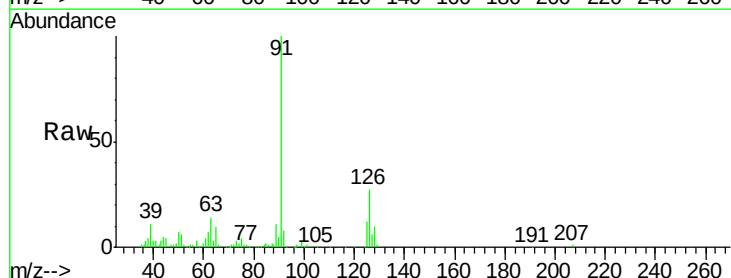
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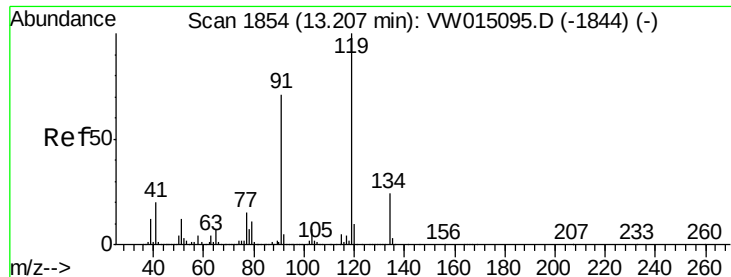
MMDadoda
3/11/2020 3:24:11 PM



#82
4-Chlorotoluene
Concen: 2.538 ug/l
RT: 12.99 min Scan# 1818
Delta R.T. 0.00 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Tgt Ion	Ratio	Lower	Upper
91	100		
126	28.7	14.8	44.4





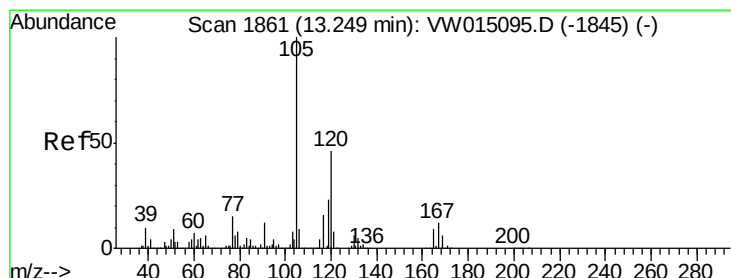
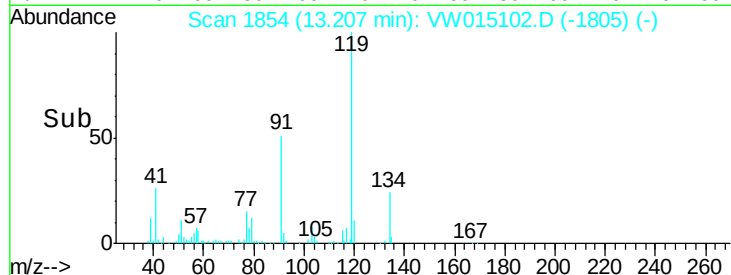
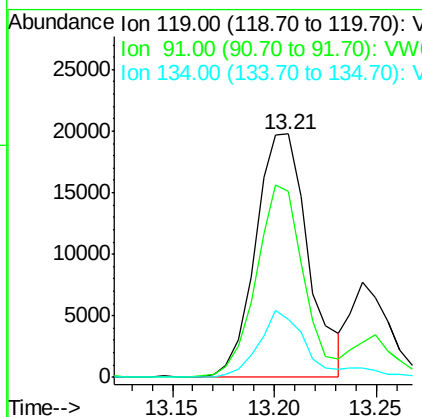
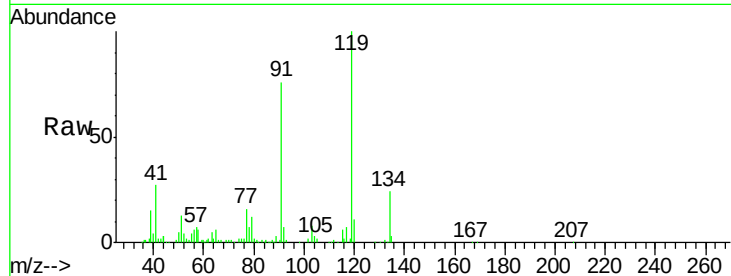
#83
tert-Butylbenzene
Concen: 2.339 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
119	100		
91	71.3	35.7	107.1
134	26.2	12.7	38.1

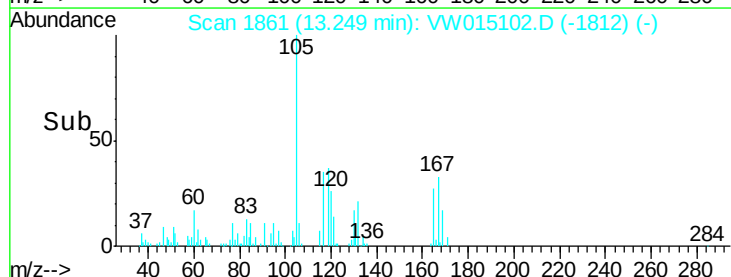
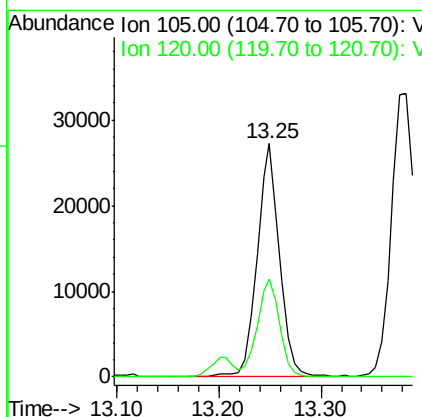
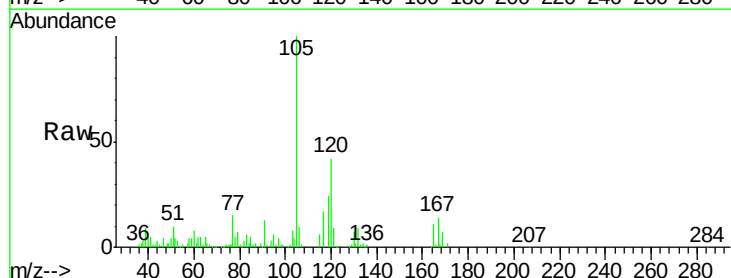
Manual Integrations
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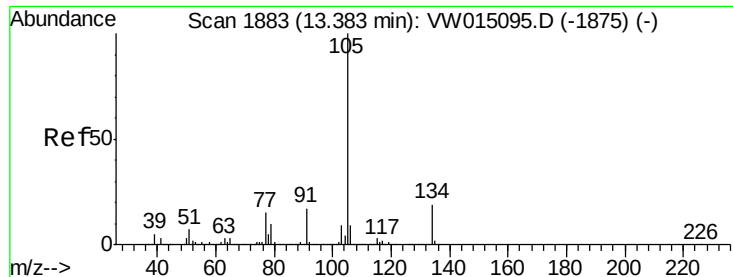
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#84
1,2,4-Trimethylbenzene
Concen: 2.232 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Tgt Ion	Ratio	Lower	Upper
105	100		
120	41.8	22.1	66.3





#85

sec-Butylbenzene

Concen: 2.317 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT1-2020

Tot Ion:105 Resp: 53396

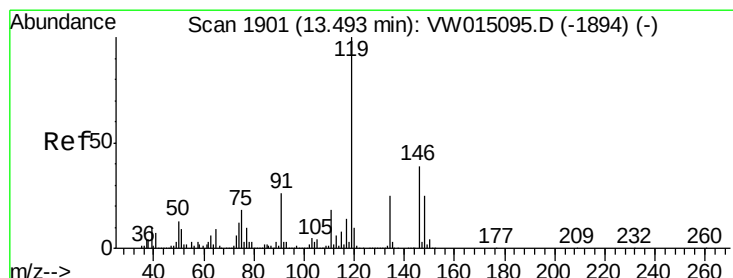
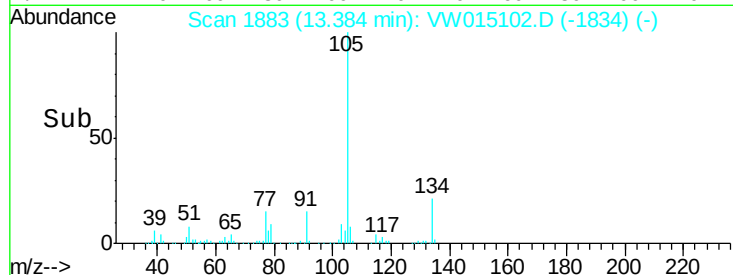
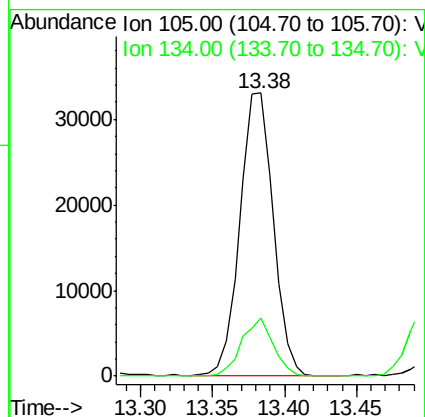
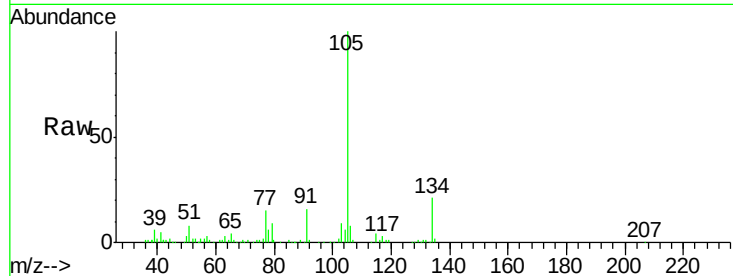
Ion Ratio Lower Upper

105 100

134 19.5 9.0 27.1

Manual Integrations
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#86

p-Isopropyltoluene

Concen: 2.202 ug/l

RT: 13.49 min Scan# 1901

Delta R.T. 0.00 min

Lab File: VW015102.D

Acq: 09 Mar 2020 17:23

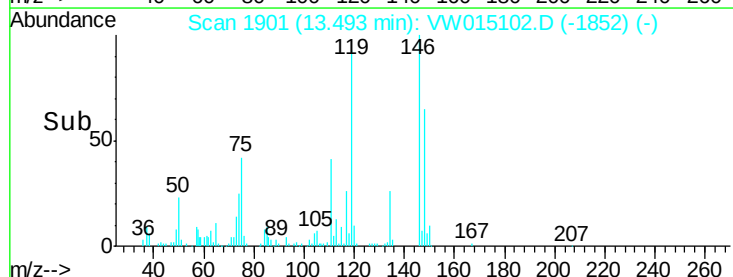
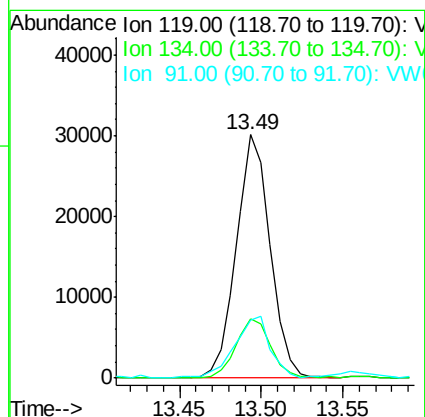
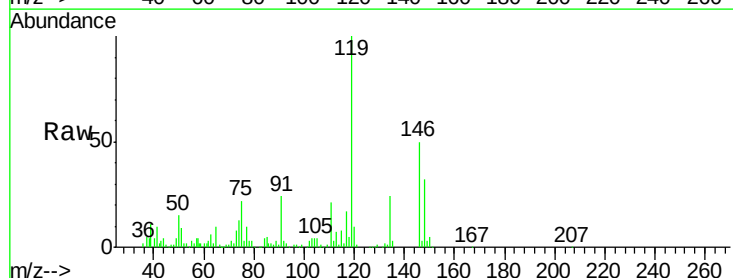
Tgt Ion:119 Resp: 43613

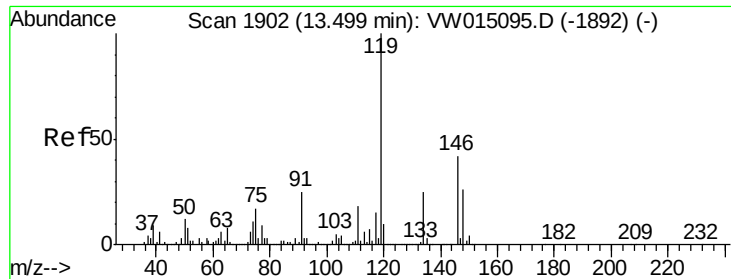
Ion Ratio Lower Upper

119 100

134 25.2 12.6 37.8

91 26.7 12.9 38.6





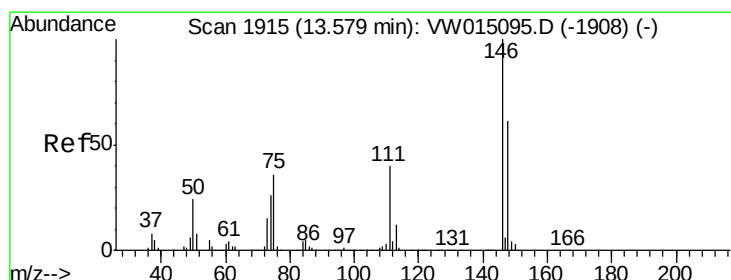
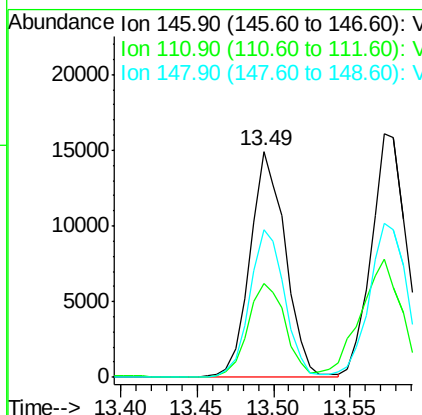
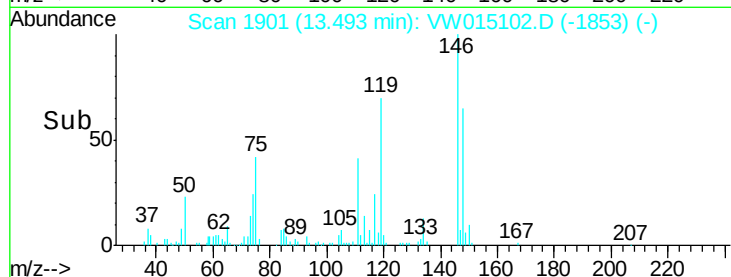
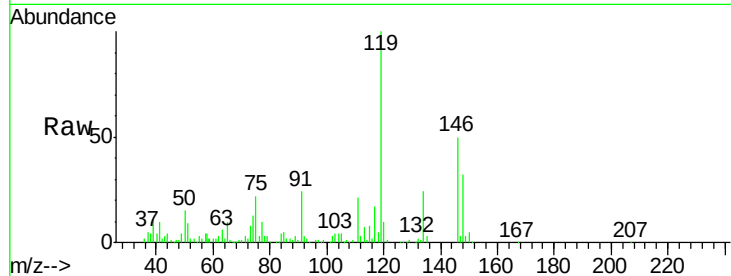
#87
 1,3-Dichlorobenzene
 Concen: 2.623 ug/l
 RT: 13.49 min Scan# 1901
 Delta R.T. -0.01 min
 Lab File: VW015102.D
 Acq: 09 Mar 2020 17:23

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.4	22.5	67.5
148	64.5	31.9	95.9

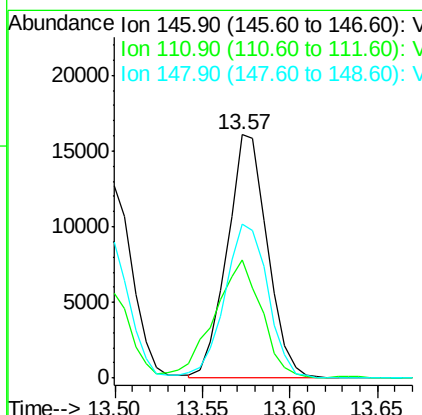
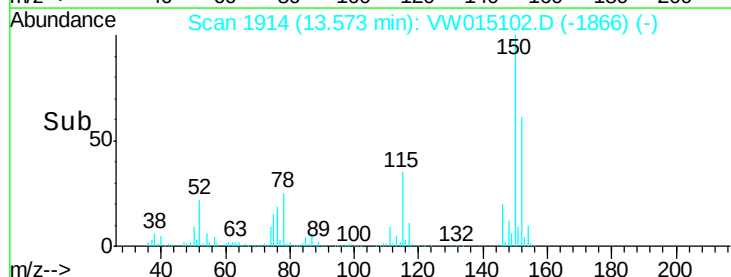
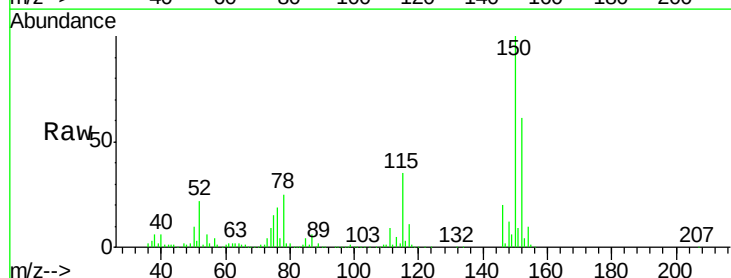
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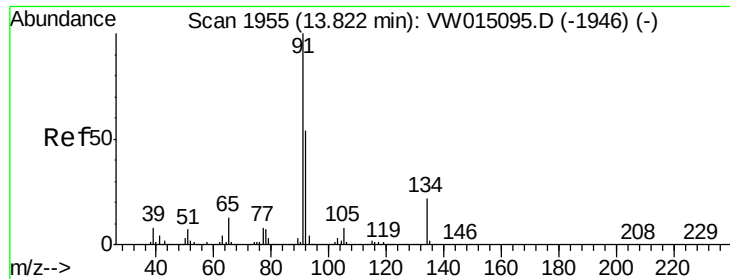
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#88
 1,4-Dichlorobenzene
 Concen: 2.861 ug/l
 RT: 13.57 min Scan# 1914
 Delta R.T. -0.01 min
 Lab File: VW015102.D
 Acq: 09 Mar 2020 17:23

Tgt Ion	Ratio	Lower	Upper
146	100		
111	56.6	21.3	63.9
148	68.1	31.6	94.8





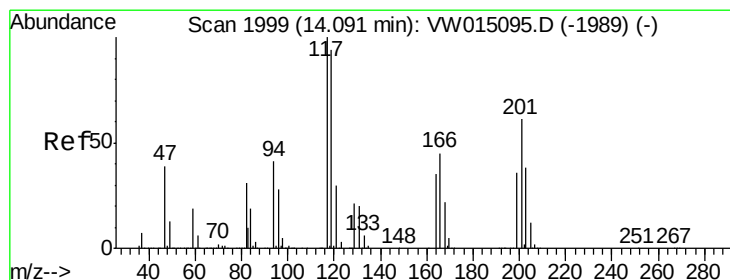
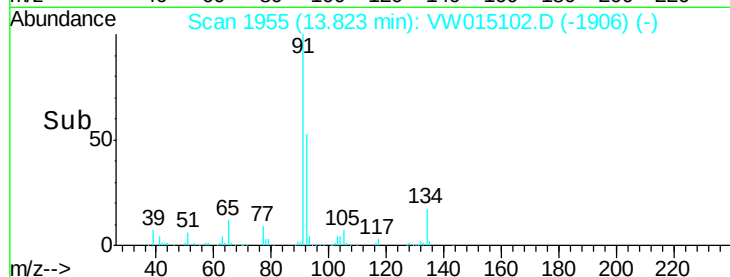
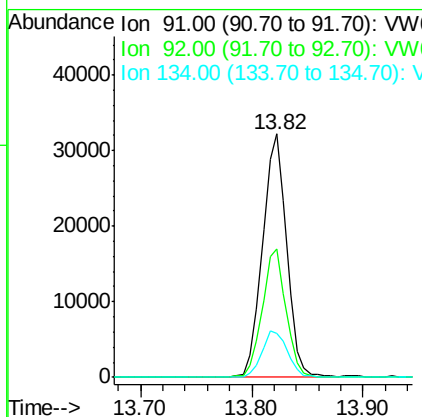
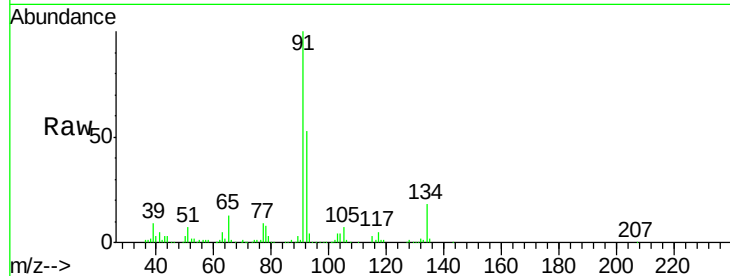
#89
n-Butylbenzene
Concen: 2.298 ug/l
RT: 13.82 min Scan# 1955
Delta R.T. 0.00 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.6	26.8	80.3
134	20.0	10.8	32.4

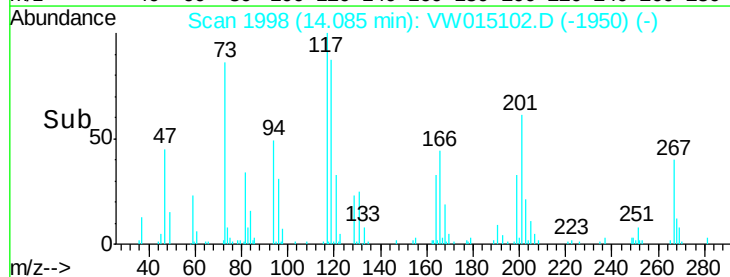
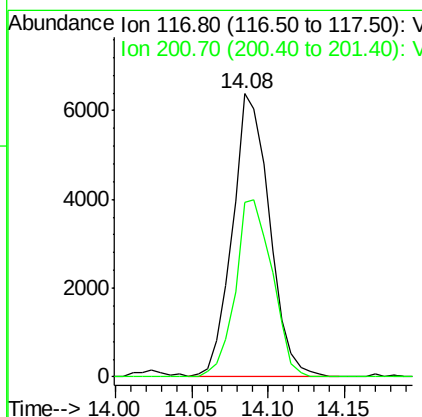
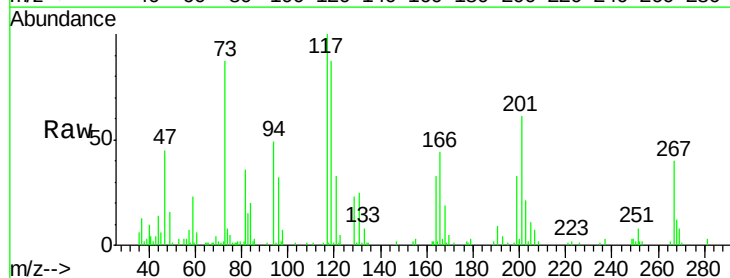
Manual Integrations
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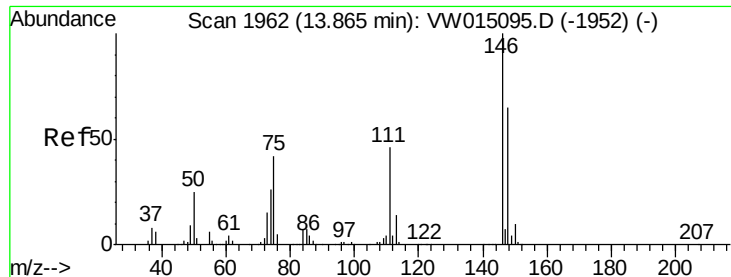
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#90
Hexachloroethane
Concen: 2.701 ug/l
RT: 14.08 min Scan# 1998
Delta R.T. -0.01 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Tgt Ion	Ratio	Lower	Upper
117	100		
201	62.1	30.3	90.9





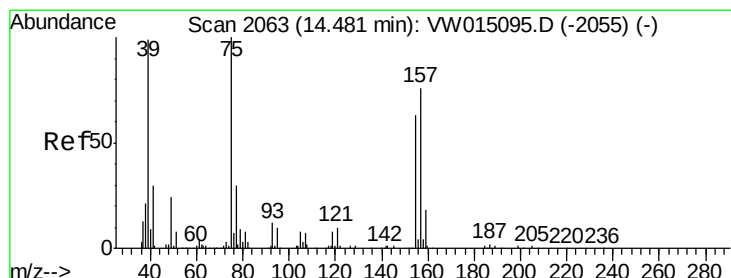
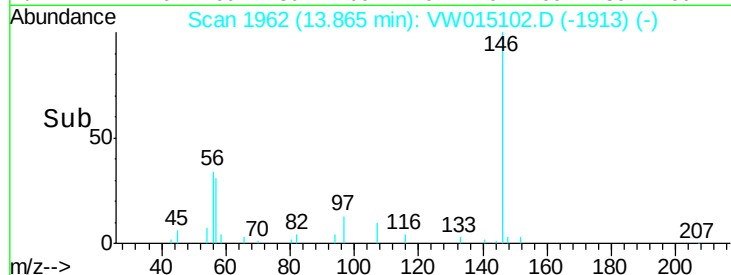
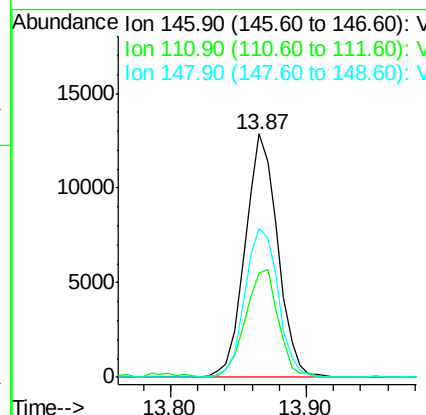
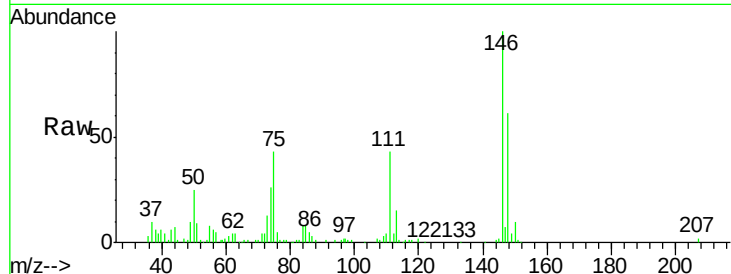
#91
 1,2-Dichlorobenzene
 Concen: 2.680 ug/l
 RT: 13.87 min Scan# 1962
 Delta R.T. 0.00 min
 Lab File: VW015102.D
 Acq: 09 Mar 2020 17:23

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.9	23.1	69.2
148	62.7	32.3	96.9

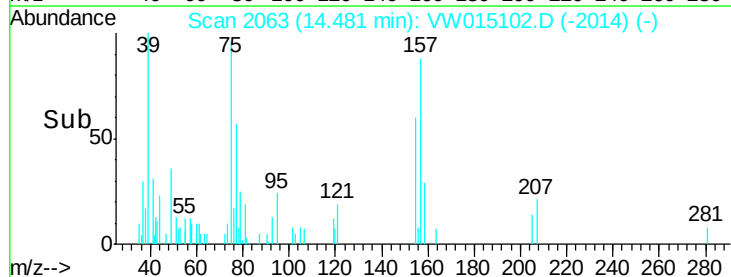
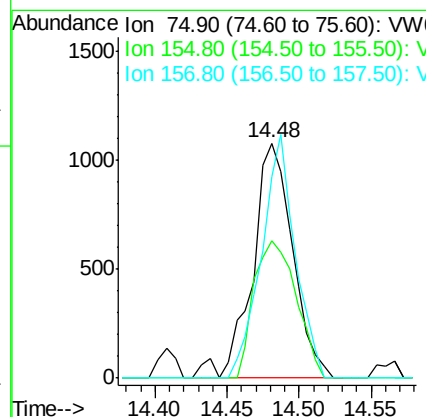
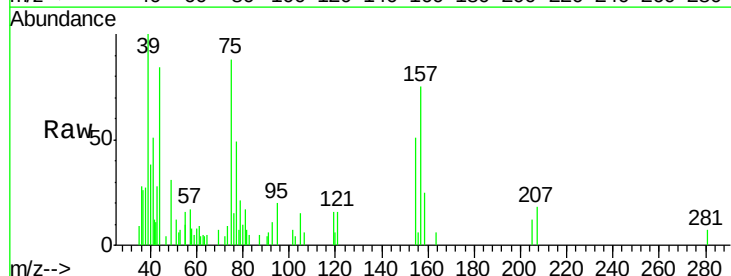
Manual Integrations
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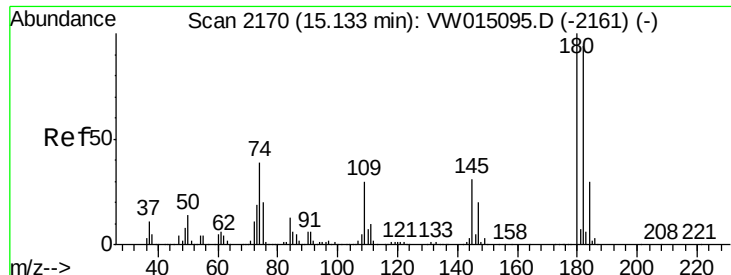
MMDadoda
 3/11/2020 3:24:11 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.938 ug/l
 RT: 14.48 min Scan# 2063
 Delta R.T. 0.00 min
 Lab File: VW015102.D
 Acq: 09 Mar 2020 17:23

Tgt Ion	Ratio	Lower	Upper
75	100		
155	61.2	32.1	96.3
157	86.4	39.6	118.7





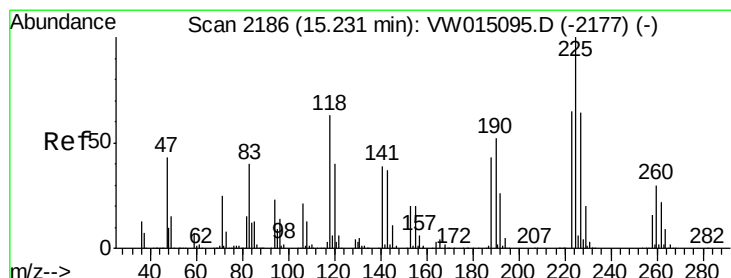
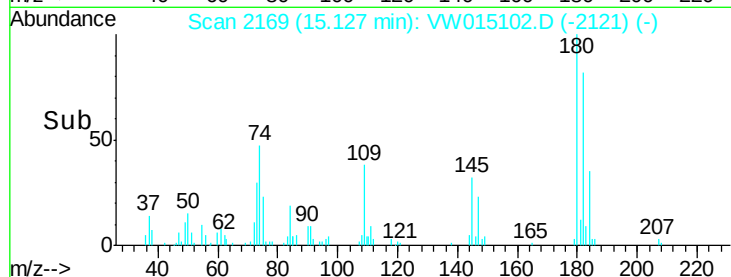
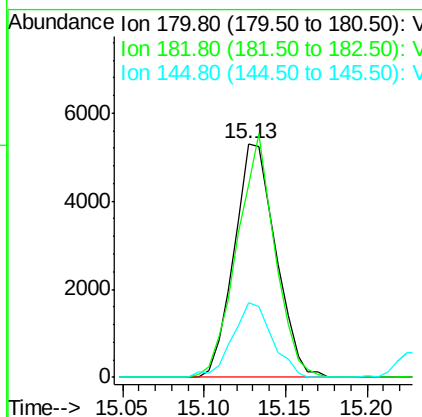
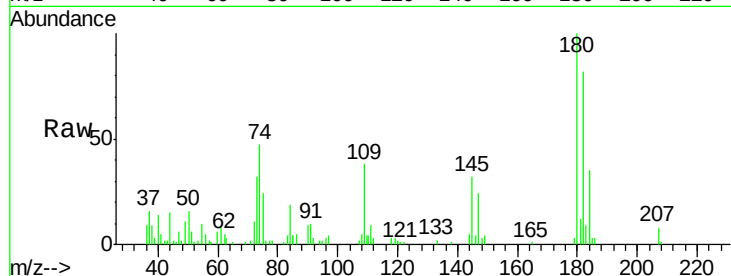
#93
1,2,4-Trichlorobenzene
Concen: 2.053 ug/l
RT: 15.13 min Scan# 2169
Delta R.T. -0.01 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

Tot Ion:180 Resp: 9420
Ion Ratio Lower Upper
180 100
182 94.9 47.6 142.9
145 30.6 16.2 48.5

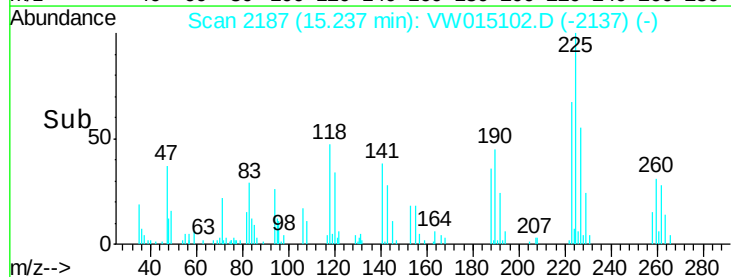
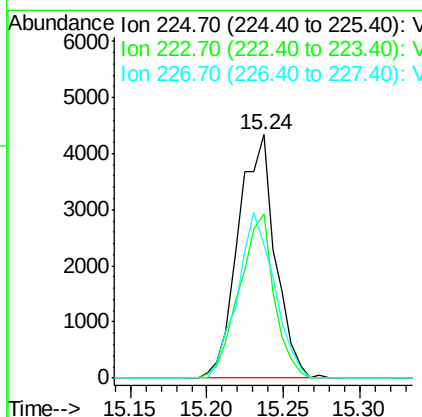
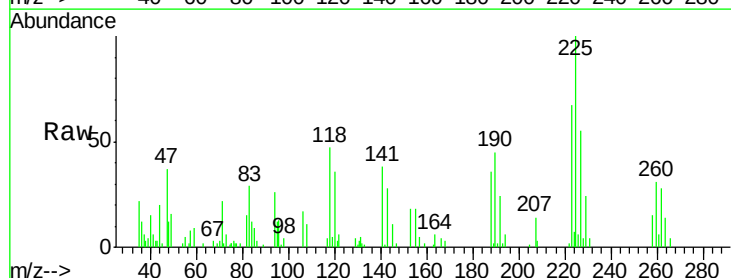
Manual Integrations
APPROVED

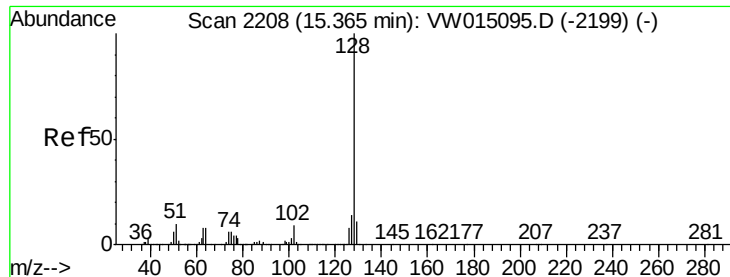
MMDadoda
3/11/2020 3:24:11 PM



#94
Hexachlorobutadiene
Concen: 2.532 ug/l
RT: 15.24 min Scan# 2187
Delta R.T. 0.01 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Tgt Ion:225 Resp: 7294
Ion Ratio Lower Upper
225 100
223 62.9 32.5 97.4
227 67.4 33.0 99.0





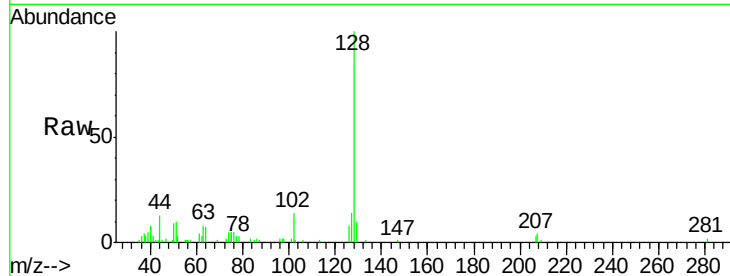
#95
Naphthalene
Concen: 1.631 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. 0.00 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT1-2020

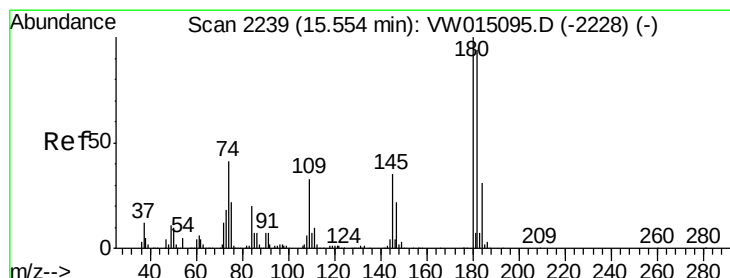
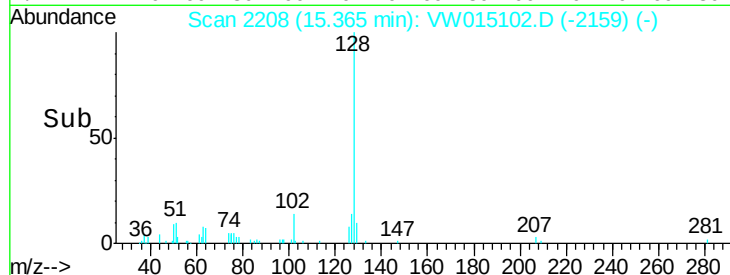
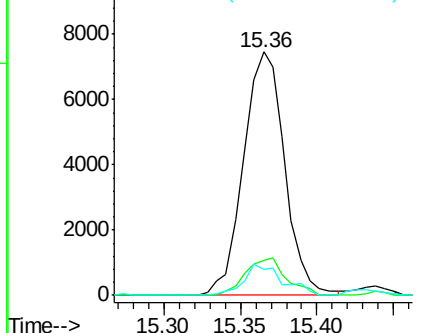
Tot Ion	Ratio	Lower	Upper
128	100		
127	15.1	10.7	16.1
129	11.9	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
3/11/2020 3:24:11 PM

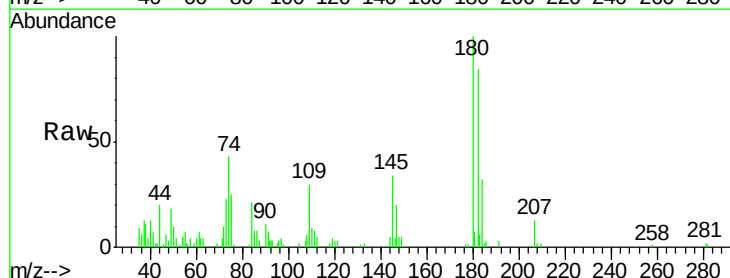


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 2.144 ug/l
RT: 15.55 min Scan# 2238
Delta R.T. -0.01 min
Lab File: VW015102.D
Acq: 09 Mar 2020 17:23

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.9	143.7
145	38.4	17.5	52.6



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

