

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW050620\
 Data File : VW015411.D
 Acq On : 06 May 2020 13:11
 Operator : SY/VA
 Sample : L2182-02 5PPBL00
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT2-2020

Manual Integrations
 APPROVED

MMDadoda
 5/7/2020 10:35:00 AM

Quant Time: May 07 04:00:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W050620S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 05 18:41:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	208788	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	345392	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	306238	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	147966	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	116226	50.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.28%	
35) Dibromofluoromethane	7.88	113	100028	50.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.92%	
50) Toluene-d8	10.32	98	414659	50.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.08%	
62) 4-Bromofluorobenzene	12.62	95	147887	48.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.64%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	5355	4.436	ug/l	86
3) Chloromethane	2.21	50	7663	5.071	ug/l	97
4) Vinyl Chloride	2.36	62	11057	4.831	ug/l	98
5) Bromomethane	2.78	94	8823	4.921	ug/l	91
6) Chloroethane	2.93	64	7370	4.673	ug/l	96
7) Trichlorofluoromethane	3.26	101	7176	4.275	ug/l	93
8) Diethyl Ether	3.68	74	5323	5.074	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	4.07	101	9628	4.948	ug/l	99
10) Methyl Iodide	4.27	142	14854	5.044	ug/l	99
11) Tert butyl alcohol	5.20	59	4217	31.863	ug/l #	86
12) 1,1-Dichloroethene	4.03	96	9794	4.853	ug/l	94
13) Acrolein	3.89	56	4495	26.596	ug/l	96
14) Allyl chloride	4.67	41	17909	5.065	ug/l	97
15) Acrylonitrile	5.37	53	11088	25.971	ug/l	99
16) Acetone	4.12	43	9968	27.957	ug/l	99
17) Carbon Disulfide	4.38	76	29835	4.822	ug/l	98
18) Methyl Acetate	4.67	43	5388	5.692	ug/l	98
19) Methyl tert-butyl Ether	5.43	73	16488	5.085	ug/l	98
20) Methylene Chloride	4.92	84	11675	5.019	ug/l	97
21) trans-1,2-Dichloroethene	5.43	96	11355	4.957	ug/l	94
22) Diisopropyl ether	6.31	45	34082	4.933	ug/l	93
23) Vinyl Acetate	6.26	43	101053	24.059	ug/l	99
24) 1,1-Dichloroethane	6.22	63	20356	4.914	ug/l	99
25) 2-Butanone	7.17	43	14958	26.915	ug/l	93
26) 2,2-Dichloropropane	7.16	77	14554	5.301	ug/l	99
27) cis-1,2-Dichloroethene	7.16	96	12473	5.014	ug/l	98
28) Bromochloromethane	7.51	49	8963	5.381	ug/l	99
29) Tetrahydrofuran	7.53	42	9615	26.289	ug/l	98
30) Chloroform	7.68	83	20876	5.072	ug/l	98
31) Cyclohexane	7.96	56	24746	5.884	ug/l #	88
32) 1,1,1-Trichloroethane	7.87	97	17761	5.135	ug/l	100
36) 1,1-Dichloropropene	8.09	75	17050	5.024	ug/l	99
37) Ethyl Acetate	7.26	43	7353	5.584	ug/l	99
38) Carbon Tetrachloride	8.07	117	15906	5.014	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	21918	5.103	ug/l	99
40) Benzene	8.32	78	46197	4.992	ug/l	100
41) Methacrylonitrile	7.48	41	3965	4.766	ug/l	97
42) 1,2-Dichloroethane	8.40	62	14467	5.132	ug/l	99
43) Isopropyl Acetate	8.43	43	13930	5.030	ug/l	99
44) Trichloroethene	9.09	130	11861	4.945	ug/l	96
45) 1,2-Dichloropropane	9.37	63	11191	4.895	ug/l	96
46) Dibromomethane	9.46	93	5780	5.083	ug/l	95
47) Bromodichloromethane	9.65	83	15490	4.998	ug/l	100
48) Methyl methacrylate	9.44	41	6280	4.910	ug/l	97
49) 1,4-Dioxane	9.45	88	1483	103.631	ug/l	89
51) 4-Methyl-2-Pentanone	10.21	43	33449	25.774	ug/l	100
52) Toluene	10.39	92	29829	4.960	ug/l	99
53) t-1,3-Dichloropropene	10.60	75	15291	4.834	ug/l	96
54) cis-1,3-Dichloropropene	10.07	75	18224	4.893	ug/l	94
55) 1,1,2-Trichloroethane	10.79	97	8063	5.014	ug/l	91
56) Ethyl methacrylate	10.65	69	10487	4.747	ug/l	93
57) 1,3-Dichloropropane	10.93	76	14525	5.024	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.93	63	28558	26.569	ug/l	100
59) 2-Hexanone	10.97	43	22439	25.554	ug/l	98
60) Dibromochloromethane	11.13	129	9001	4.654	ug/l	99
61) 1,2-Dibromoethane	11.23	107	7713	5.066	ug/l	98
64) Tetrachloroethene	10.86	164	9958	5.320	ug/l	88
65) Chlorobenzene	11.66	112	30723	5.088	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.73	131	10556	4.931	ug/l	99
67) Ethyl Benzene	11.73	91	58123	5.029	ug/l	97
68) m/p-Xylenes	11.84	106	42766	9.953	ug/l	99
69) o-Xylene	12.16	106	19759	4.894	ug/l	98
70) Styrene	12.18	104	33467	4.813	ug/l	99
71) Bromoform	12.35	173	4921	4.714	ug/l #	99
73) Isopropylbenzene	12.46	105	56812	5.143	ug/l	98
74) N-amyl acetate	12.27	43	13125	5.026	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.71	83	8919	5.161	ug/l	100
76) 1,2,3-Trichloropropane	12.77	75	6115m	5.024	ug/l	
77) Bromobenzene	12.74	156	11859	5.066	ug/l	100
78) n-propylbenzene	12.80	91	67282	5.077	ug/l	100
79) 2-Chlorotoluene	12.89	91	37857	5.067	ug/l	98
80) 1,3,5-Trimethylbenzene	12.94	105	46799	5.030	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.51	75	2752	4.472	ug/l	91
82) 4-Chlorotoluene	12.99	91	40359	5.097	ug/l	99
83) tert-Butylbenzene	13.21	119	40590	5.112	ug/l	98
84) 1,2,4-Trimethylbenzene	13.25	105	47264	5.078	ug/l	100
85) sec-Butylbenzene	13.38	105	56383	5.040	ug/l	99
86) p-Isopropyltoluene	13.50	119	51589	5.056	ug/l	100
87) 1,3-Dichlorobenzene	13.50	146	23117	4.957	ug/l	97
88) 1,4-Dichlorobenzene	13.58	146	23593	5.109	ug/l	93
89) n-Butylbenzene	13.82	91	49968	5.003	ug/l	99
90) Hexachloroethane	14.09	117	9206	4.896	ug/l	96
91) 1,2-Dichlorobenzene	13.87	146	20697	5.126	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.48	75	1620	5.370	ug/l	92

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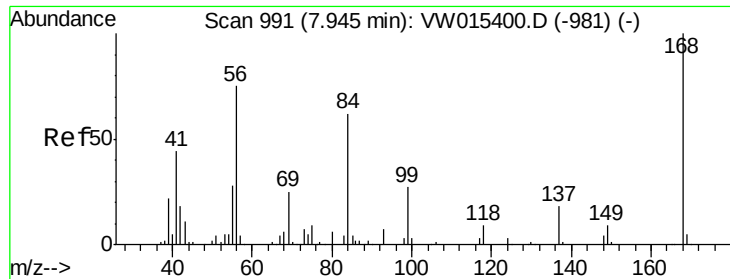
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	13117	4.834	ug/l	97
94) Hexachlorobutadiene	15.24	225	8160	5.074	ug/l	95
95) Naphthalene	15.36	128	24086	4.955	ug/l	99
96) 1,2,3-Trichlorobenzene	15.56	180	11836	5.076	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT2-2020

Tot Ion:168 Resp: 208788

Ion Ratio Lower Upper

168 100

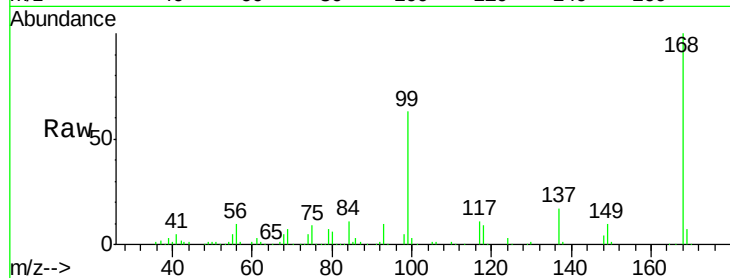
99 63.2 50.3 75.5

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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

100000

80000

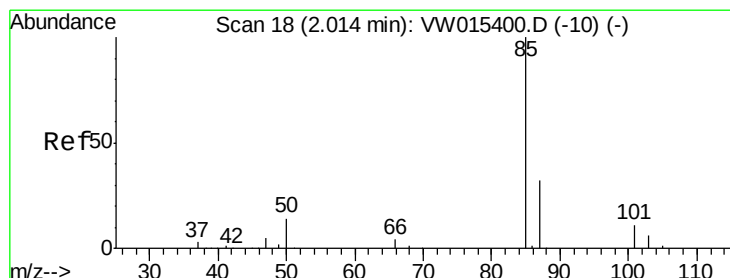
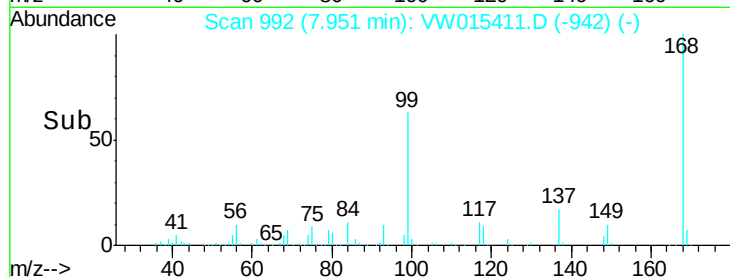
60000

40000

20000

0

Time--> 7.80 7.90 8.00



#2

Dichlorodifluoromethane

Concen: 4.436 ug/l

RT: 2.01 min Scan# 18

Delta R.T. -0.00 min

Lab File: VW015411.D

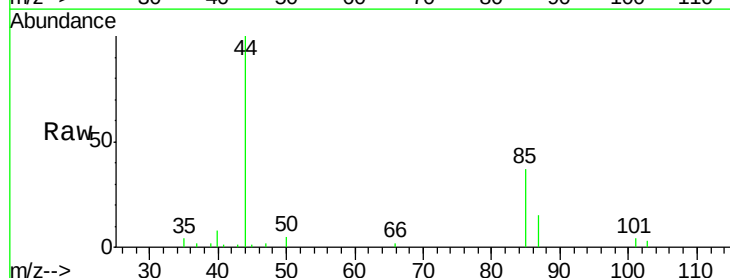
Acq: 06 May 2020 13:11

Tgt Ion: 85 Resp: 5355

Ion Ratio Lower Upper

85 100

87 39.9 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

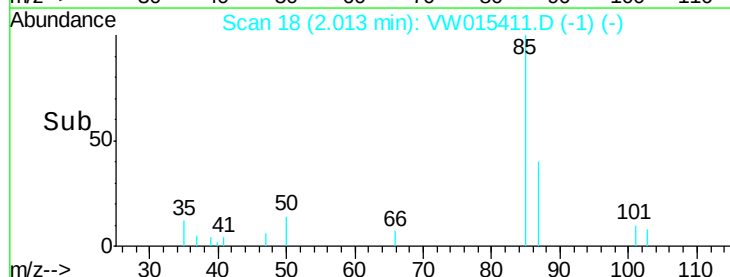
1500

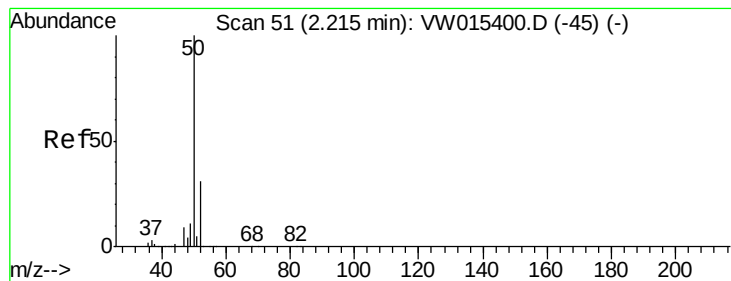
1000

500

0

Time--> 1.90 2.00 2.10 2.20





#3

Chloromethane

Concen: 5.071 ug/l

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT2-2020

Tot Ion: 50 Resp: 7663

Ion Ratio Lower Upper

50 100

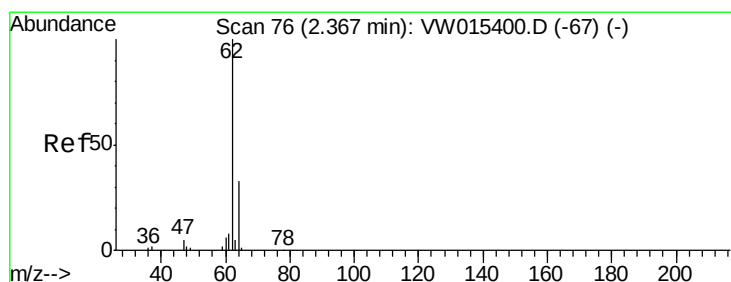
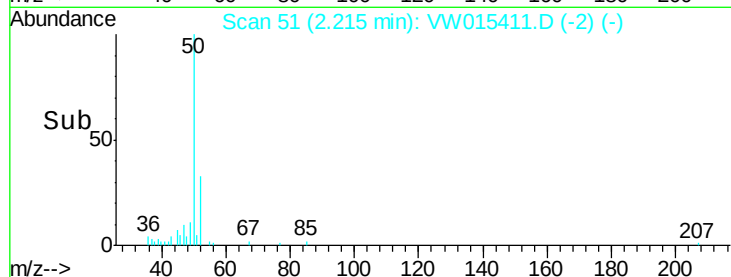
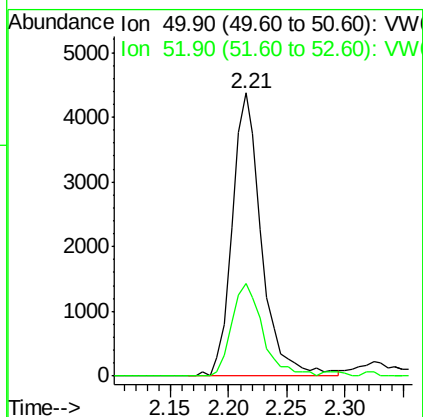
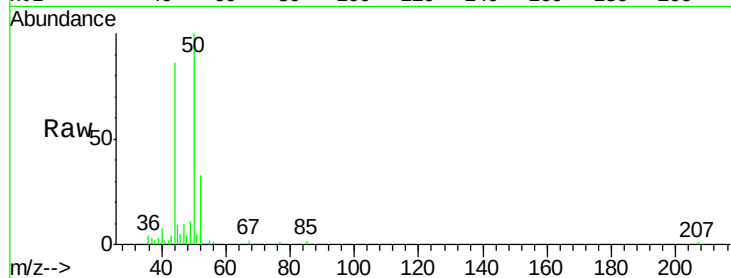
52 32.9 25.0 37.6

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#4

Vinyl Chloride

Concen: 4.831 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW015411.D

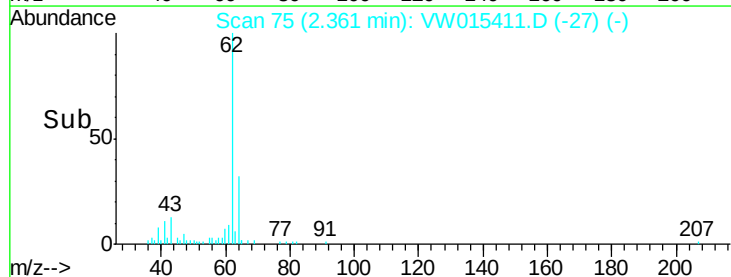
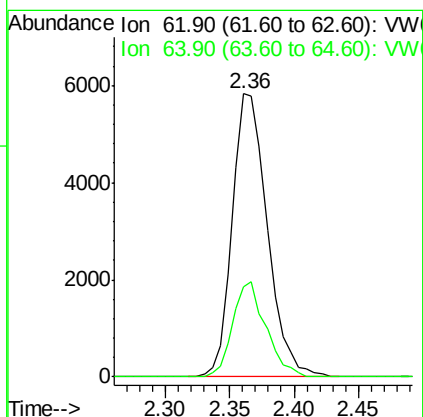
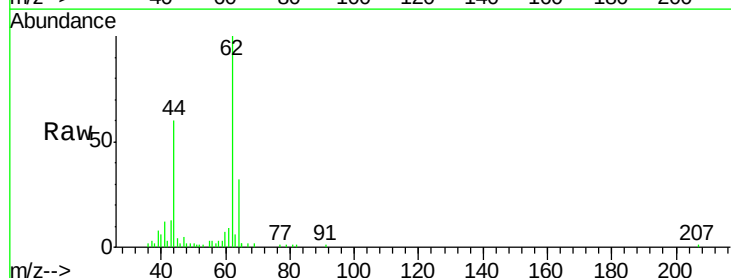
Acq: 06 May 2020 13:11

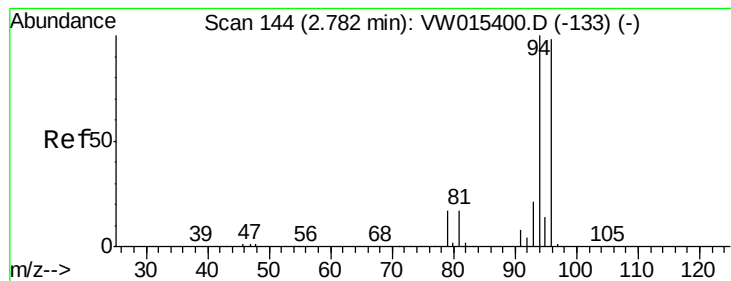
Tgt Ion: 62 Resp: 11057

Ion Ratio Lower Upper

62 100

64 31.9 26.4 39.6





#5

Bromomethane

Concen: 4.921 ug/l

RT: 2.78 min Scan# 144

Delta R.T. -0.00 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

Instrument :

MSVOA_W

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LOQ-SOIL-02-QT2-2020

Tot Ion: 94 Resp: 8823

Ion Ratio Lower Upper

94 100

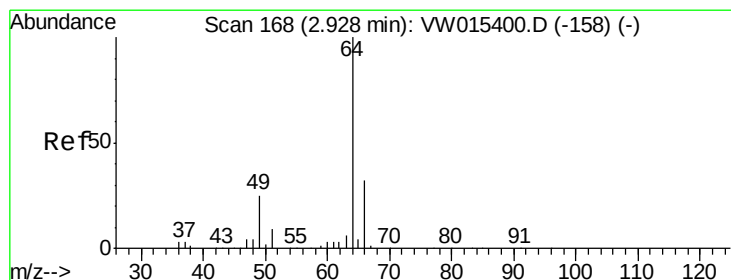
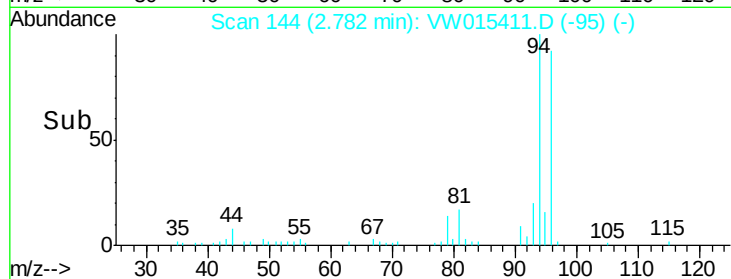
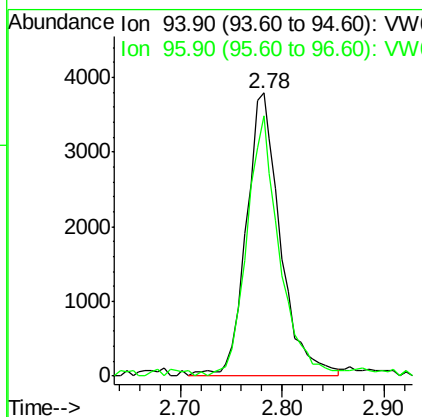
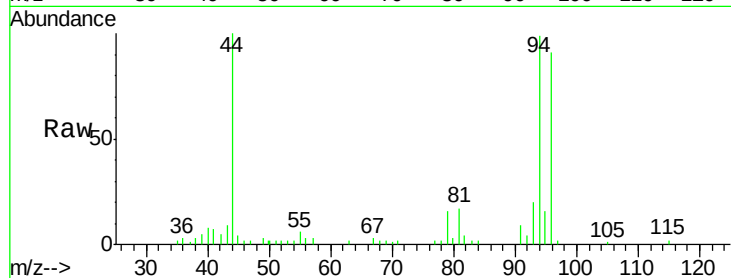
96 89.9 78.8 118.2

Manual Integrations

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#6

Chloroethane

Concen: 4.673 ug/l

RT: 2.93 min Scan# 168

Delta R.T. -0.00 min

Lab File: VW015411.D

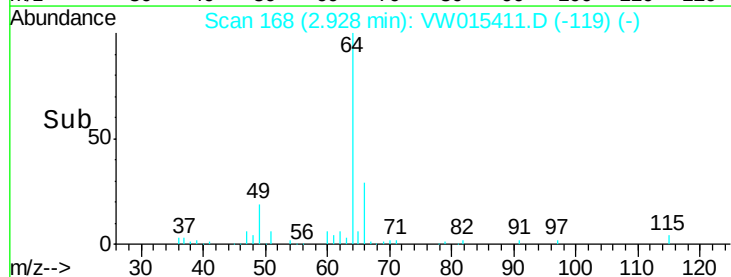
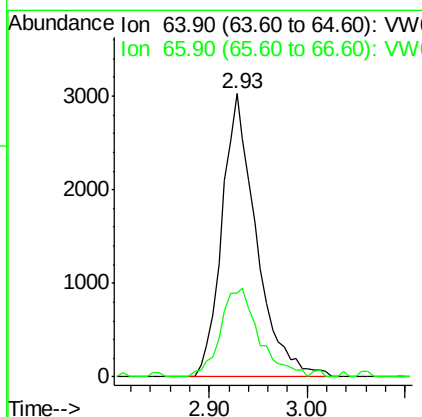
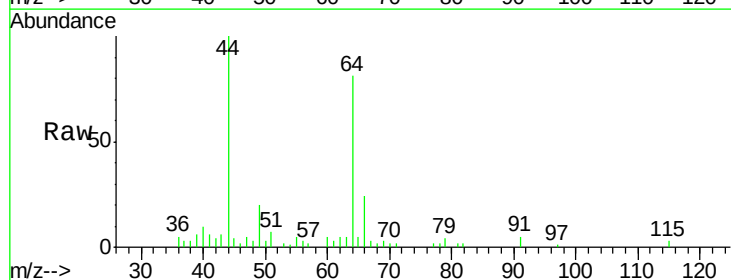
Acq: 06 May 2020 13:11

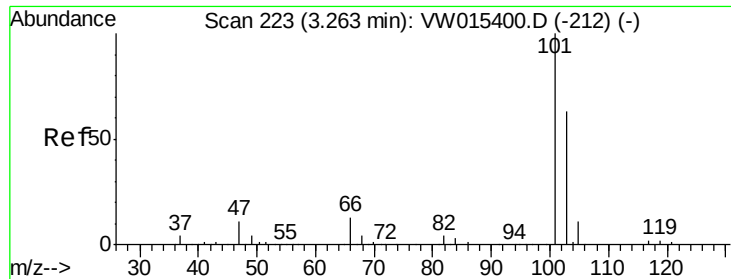
Tgt Ion: 64 Resp: 7370

Ion Ratio Lower Upper

64 100

66 29.4 25.4 38.0





#7

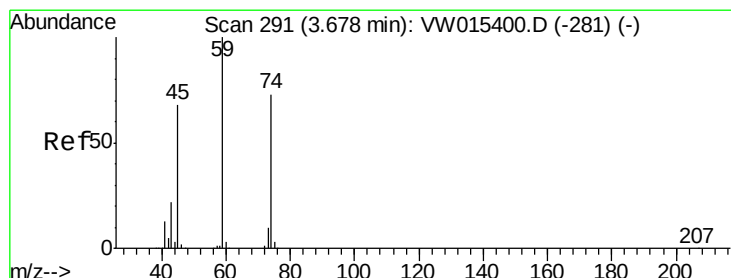
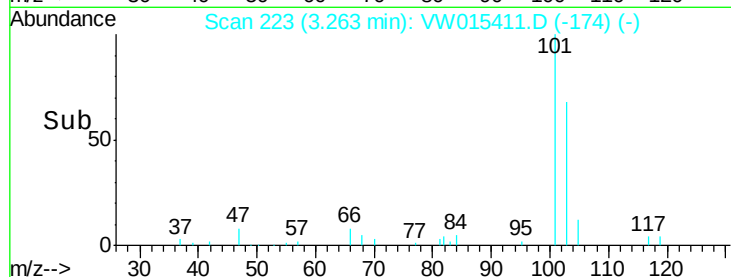
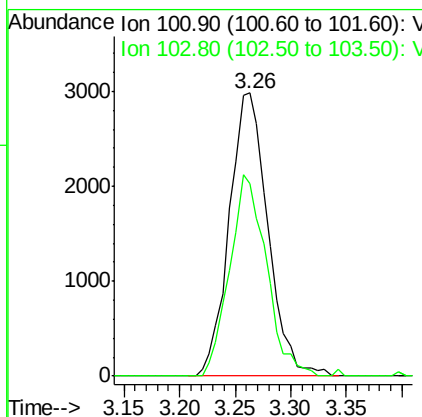
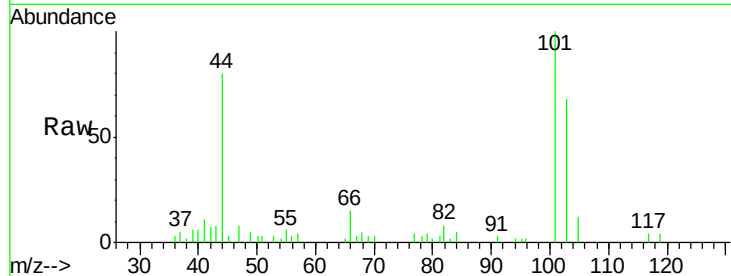
Trichlorofluoromethane
 Concen: 4.275 ug/l
 RT: 3.26 min Scan# 223
 Delta R.T. -0.00 min
 Lab File: VW015411.D
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Instrument :
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 ClientSampleId :
 LOQ-SOIL-02-QT2-2020

Tot Ion	Ratio	Lower	Upper
101	100		
103	67.9	50.2	75.4

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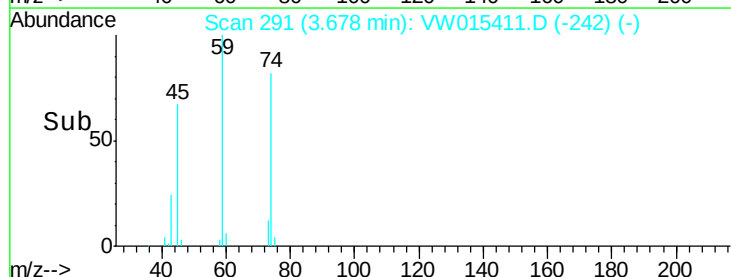
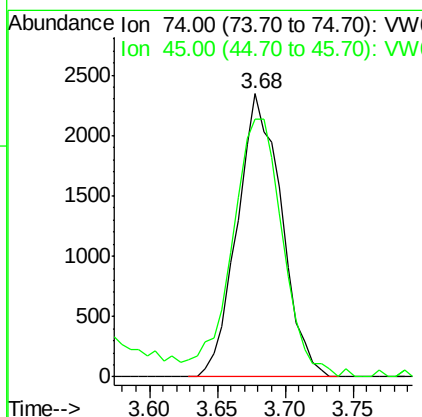
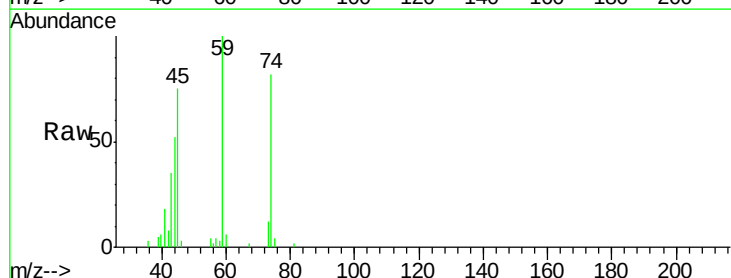
MMDadoda
 5/7/2020 10:35:00 AM

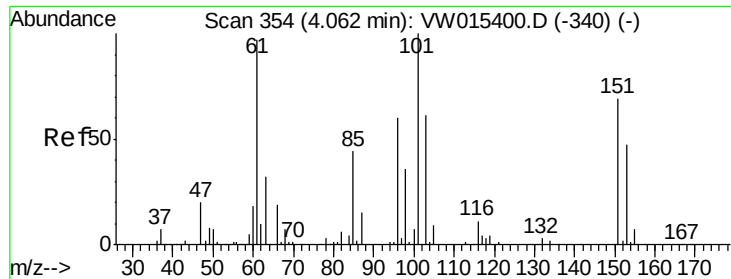


#8

Diethyl Ether
 Concen: 5.074 ug/l
 RT: 3.68 min Scan# 291
 Delta R.T. -0.00 min
 Lab File: VW015411.D
 Acq: 06 May 2020 13:11

Tgt Ion	Ratio	Lower	Upper
74	100		
45	105.1	48.3	144.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.948 ug/l

RT: 4.07 min Scan# 356

Delta R.T. 0.01 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

Instrument :

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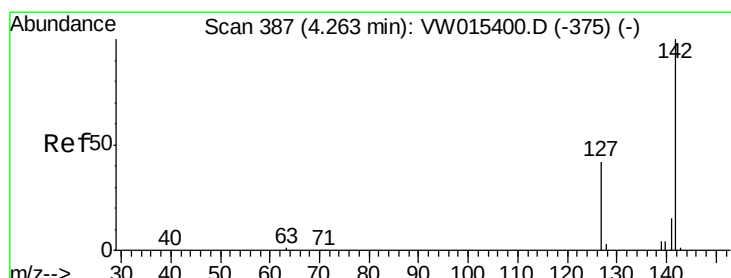
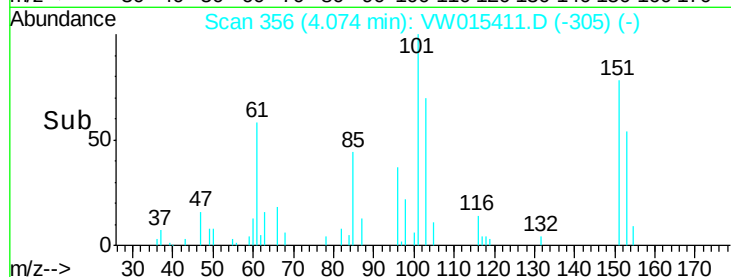
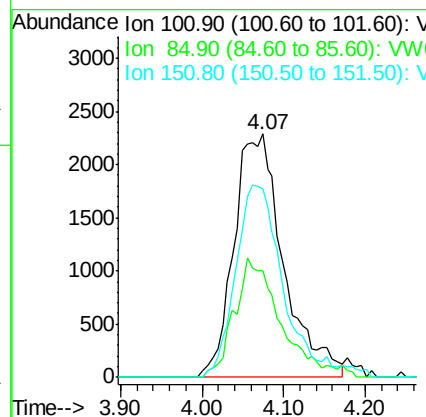
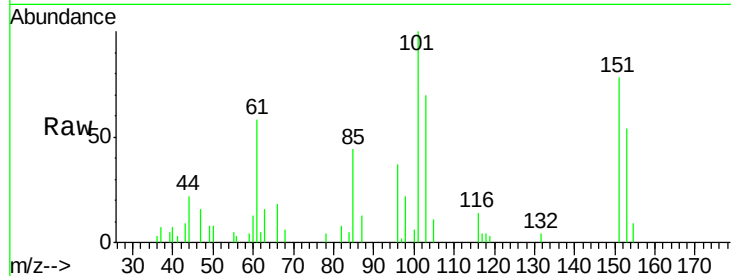
ClientSampleId :

LOQ-SOIL-02-QT2-2020

Tot Ion:	101	Resp:	9628
Ion Ratio	Lower	Upper	
101	100		
85	46.2	37.3	55.9
151	75.1	58.9	88.3

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5/7/2020 10:35:00 AM



#10

Methyl Iodide

Concen: 5.044 ug/l

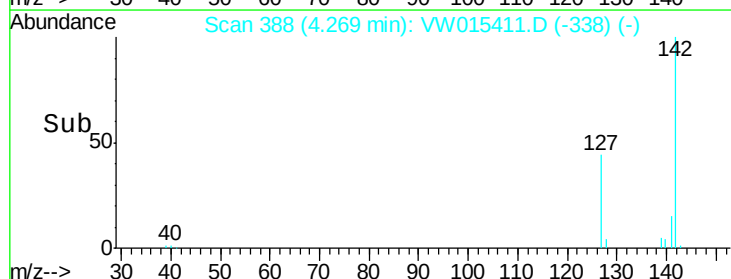
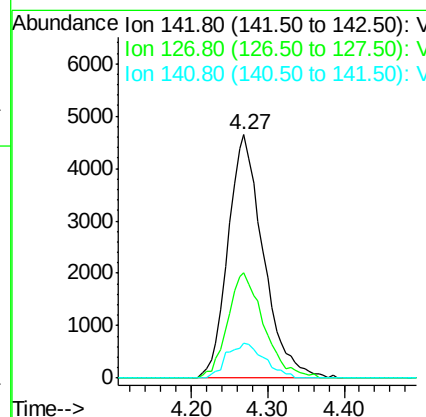
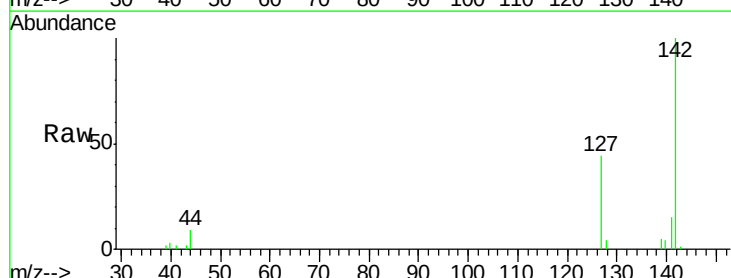
RT: 4.27 min Scan# 388

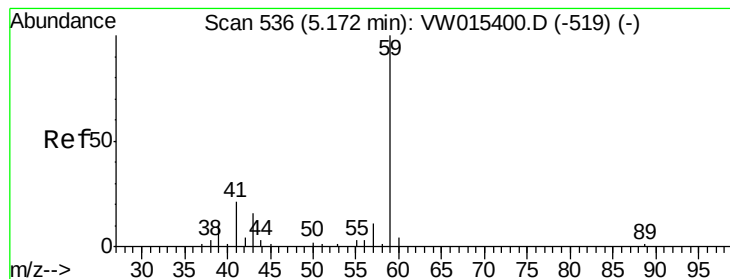
Delta R.T. 0.01 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

Tgt Ion:	142	Resp:	14854
Ion Ratio	Lower	Upper	
142	100		
127	44.4	35.4	53.2
141	15.3	11.7	17.5





#11

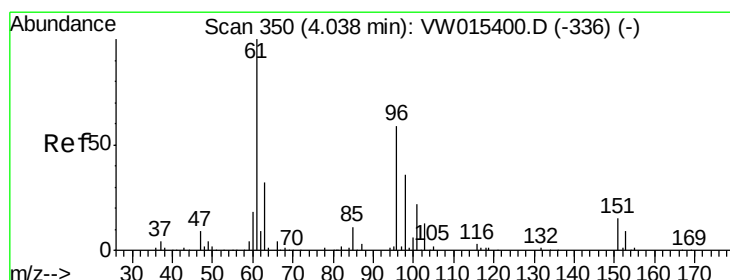
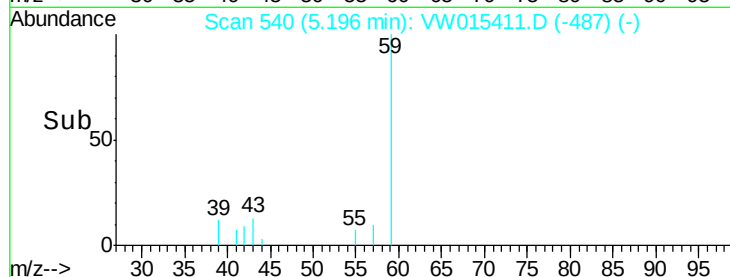
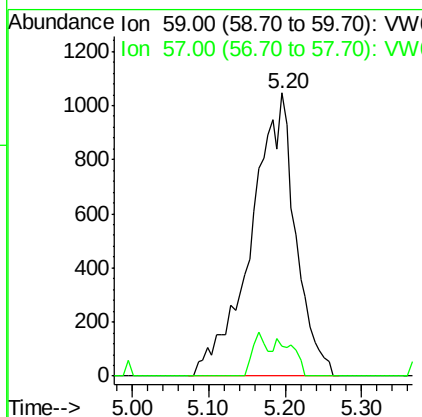
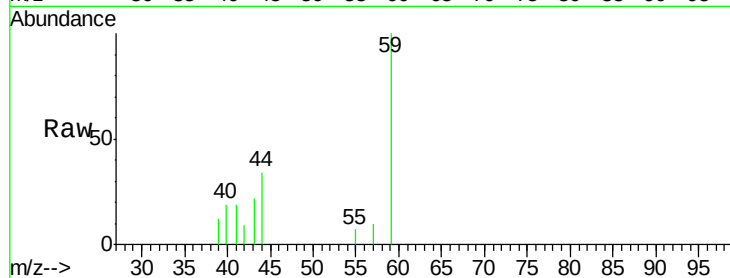
Tert butyl alcohol
Concen: 31.863 ug/l
RT: 5.20 min Scan# 540
Delta R.T. 0.02 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2020

Tot Ion	Ratio	Lower	Upper
59	100		
57	5.5	8.6	13.0#

Manual Integrations
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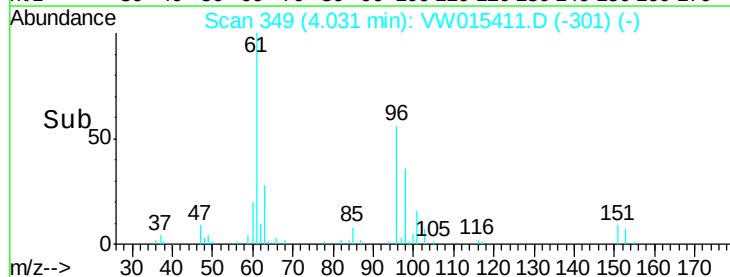
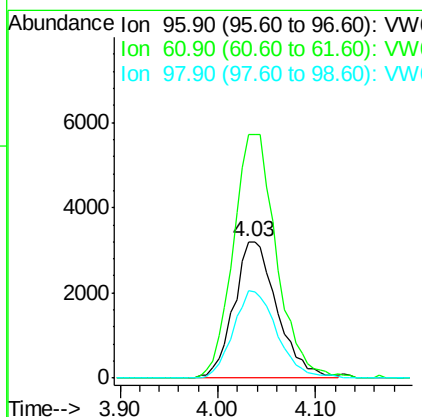
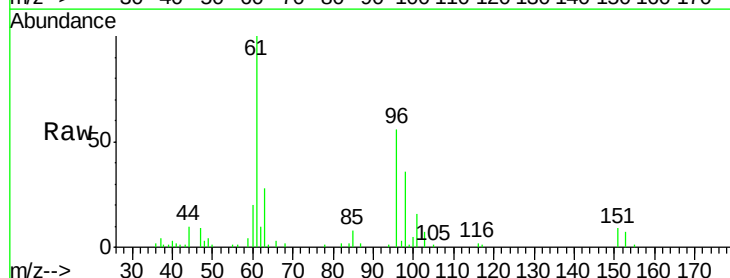
MMDadoda
5/7/2020 10:35:00 AM

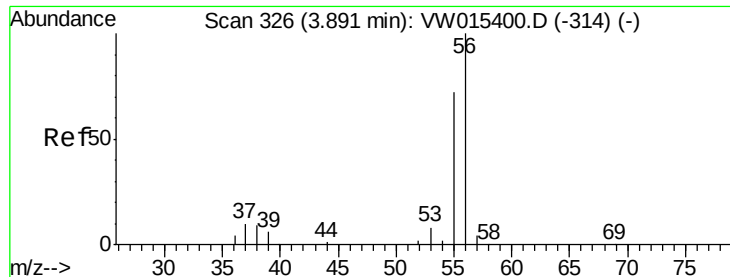


#12

1,1-Dichloroethene
Concen: 4.853 ug/l
RT: 4.03 min Scan# 349
Delta R.T. -0.01 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Tgt Ion	Ratio	Lower	Upper
96	100		
61	178.2	135.8	203.8
98	63.8	48.6	72.8





#13

Acrolein

Concen: 26.596 ug/l

RT: 3.89 min Scan# 326

Delta R.T. -0.00 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT2-2020

Tot Ion: 56 Resp: 4495

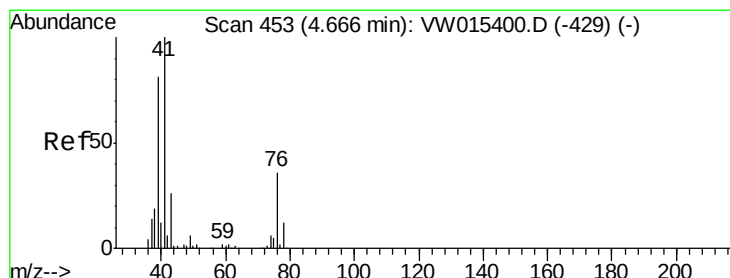
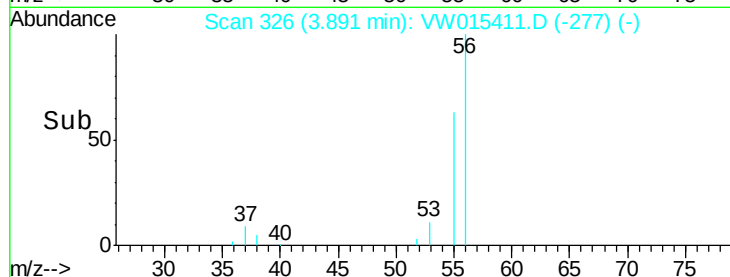
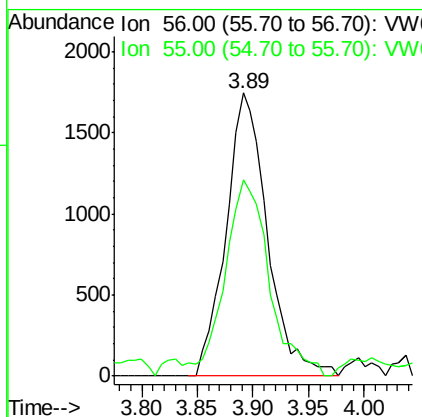
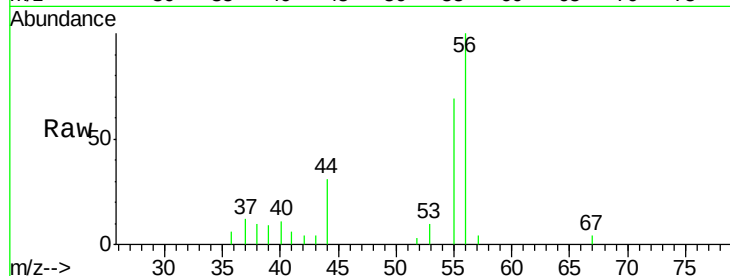
Ion Ratio Lower Upper

56 100

55 73.4 56.4 84.6

Manual Integrations
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#14

Allyl chloride

Concen: 5.065 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.00 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

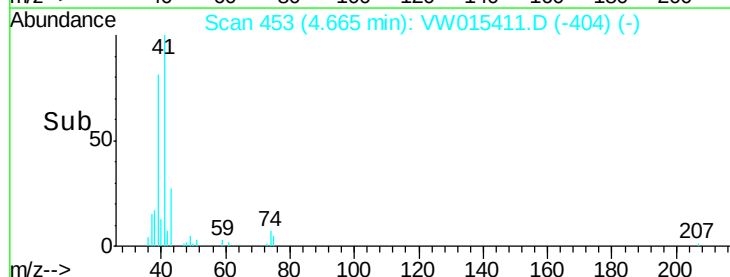
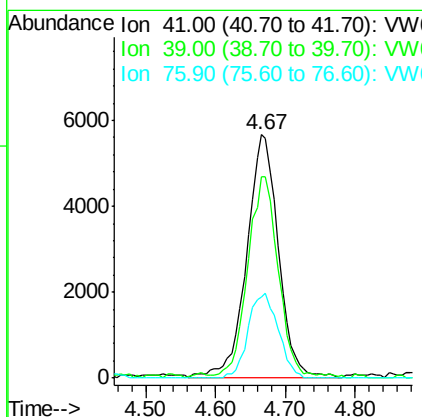
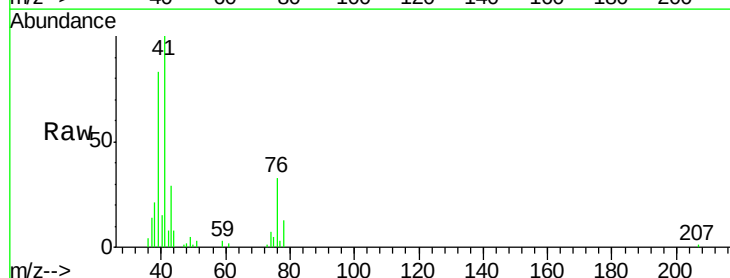
Tgt Ion: 41 Resp: 17909

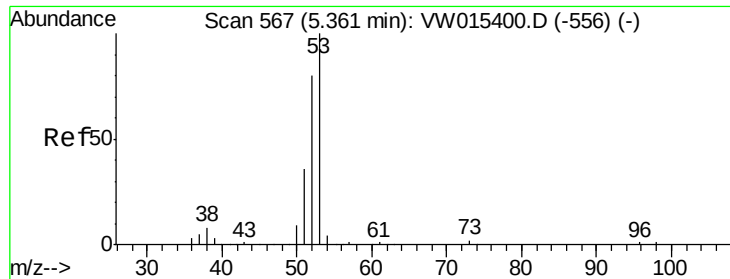
Ion Ratio Lower Upper

41 100

39 77.5 63.6 95.4

76 32.9 28.4 42.6





#15

Acrylonitrile

Concen: 25.971 ug/l

RT: 5.37 min Scan# 568

Delta R.T. 0.01 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

Instrument :

MSVOA_W

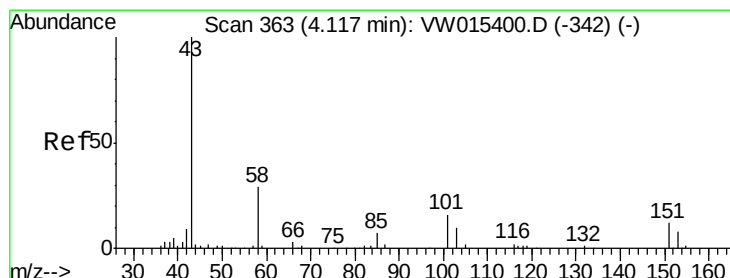
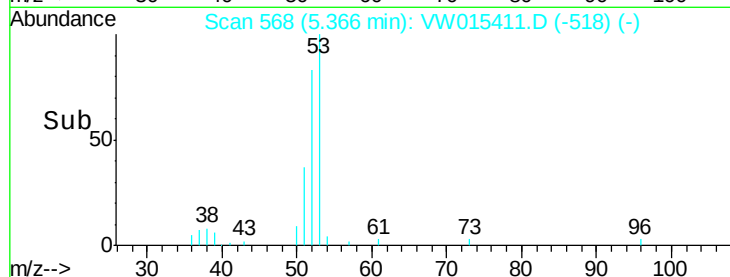
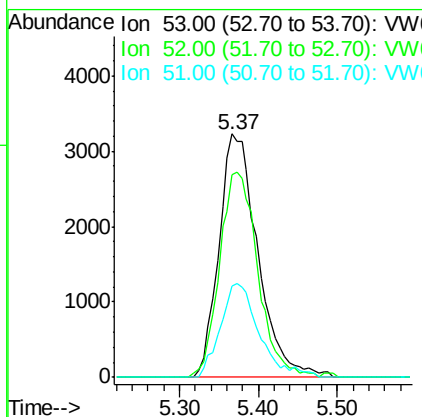
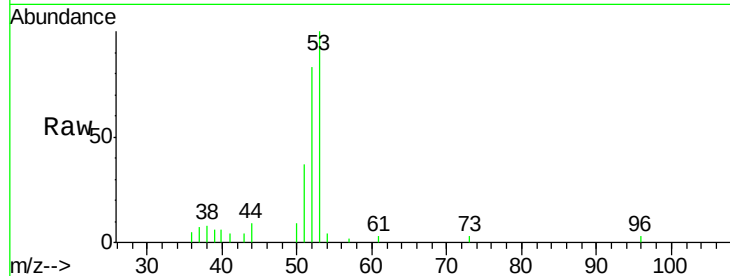
ClientSampleId :

LOQ-SOIL-02-QT2-2020

Tot Ion:	53	Resp:	11088
Ion	Ratio	Lower	Upper
53	100		
52	82.5	66.6	99.8
51	38.3	30.2	45.2

Manual Integrations
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5/7/2020 10:35:00 AM



#16

Acetone

Concen: 27.957 ug/l

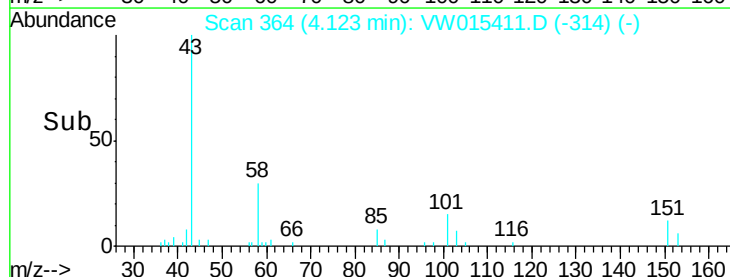
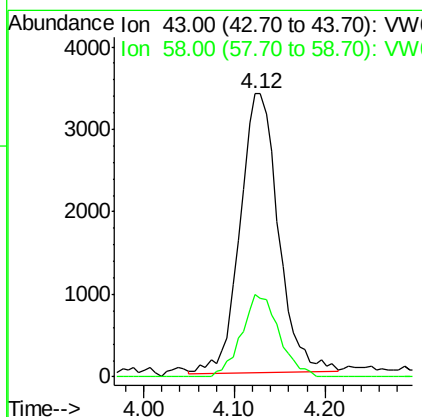
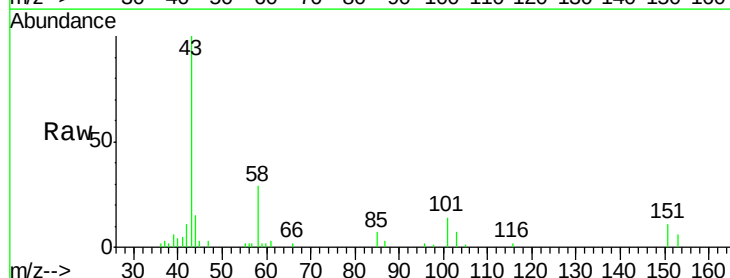
RT: 4.12 min Scan# 364

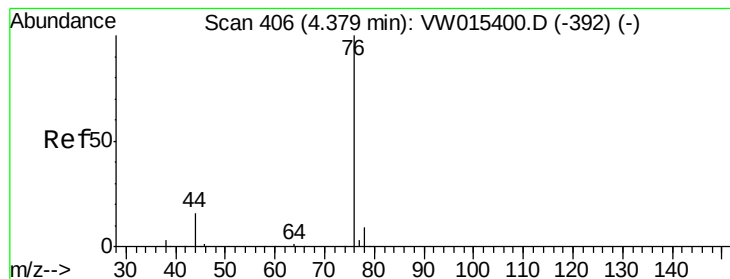
Delta R.T. 0.01 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

Tgt Ion:	43	Resp:	9968
Ion	Ratio	Lower	Upper
43	100		
58	29.7	23.4	35.0





#17

Carbon Disulfide

Concen: 4.822 ug/l

RT: 4.38 min Scan# 407

Delta R.T. 0.01 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT2-2020

Tot Ion: 76 Resp: 29835

Ion Ratio Lower Upper

76 100

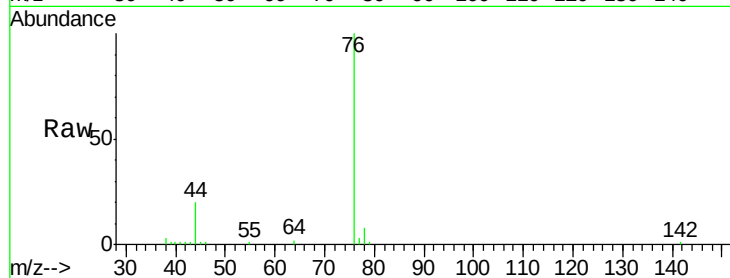
78 8.2 7.3 10.9

Manual Integrations

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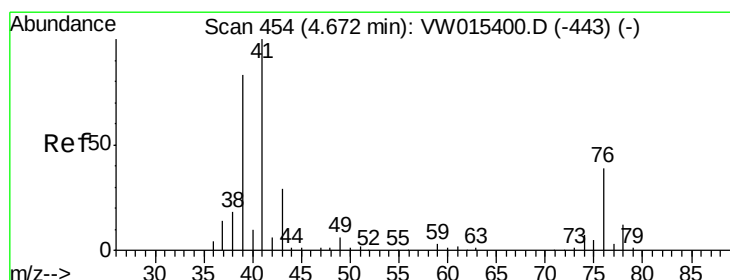
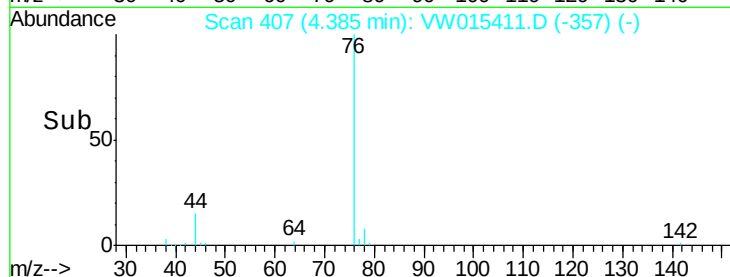
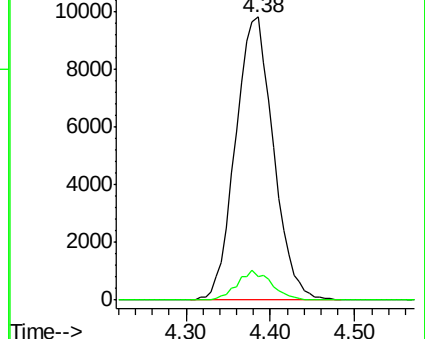
MMDadoda

5/7/2020 10:35:00 AM



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#18

Methyl Acetate

Concen: 5.692 ug/l

RT: 4.67 min Scan# 454

Delta R.T. -0.00 min

Lab File: VW015411.D

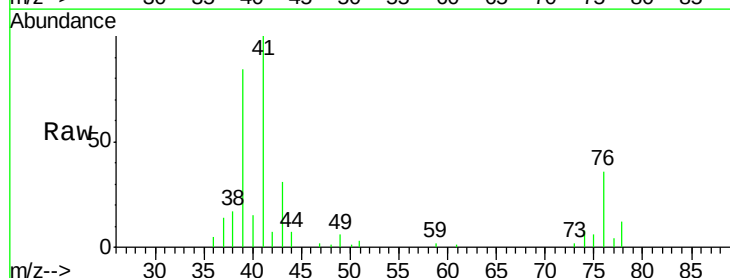
Acq: 06 May 2020 13:11

Tgt Ion: 43 Resp: 5388

Ion Ratio Lower Upper

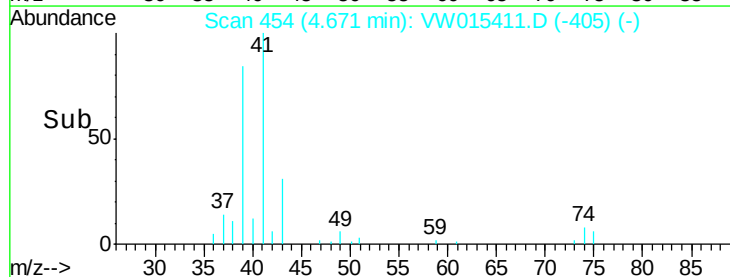
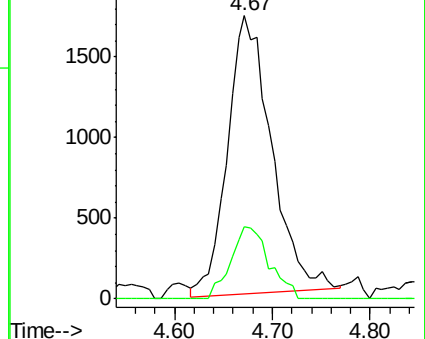
43 100

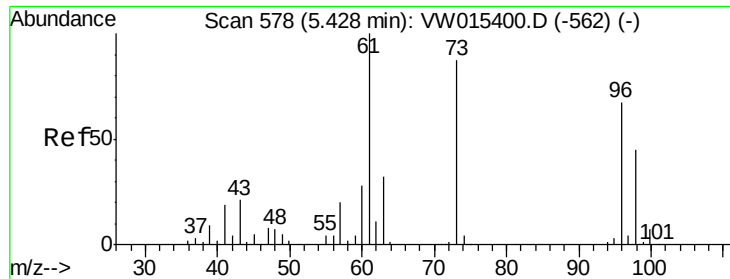
74 22.6 18.7 28.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW





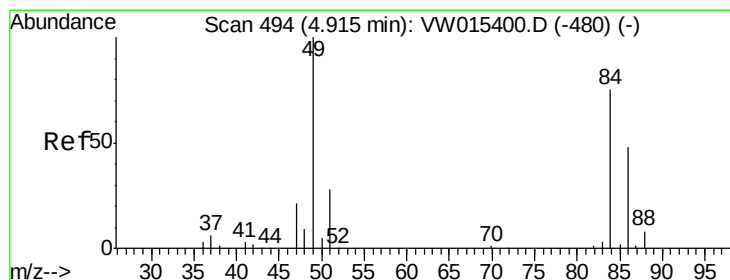
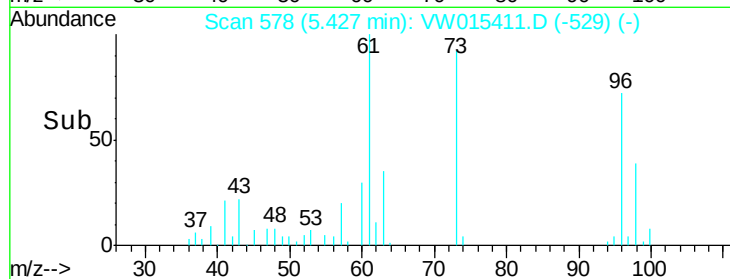
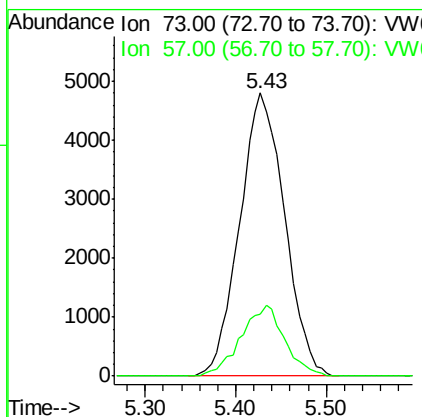
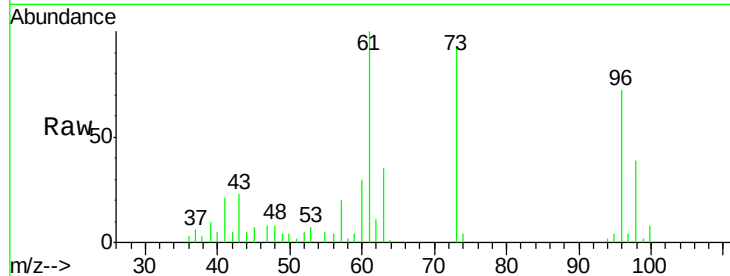
#19
Methyl tert-butyl Ether
Concen: 5.085 ug/l
RT: 5.43 min Scan# 578
Delta R.T. -0.00 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2020

Tot Ion: 73 Resp: 16488
Ion Ratio Lower Upper
73 100
57 22.0 18.5 27.7

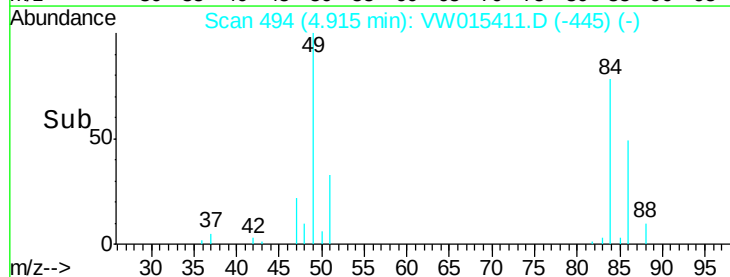
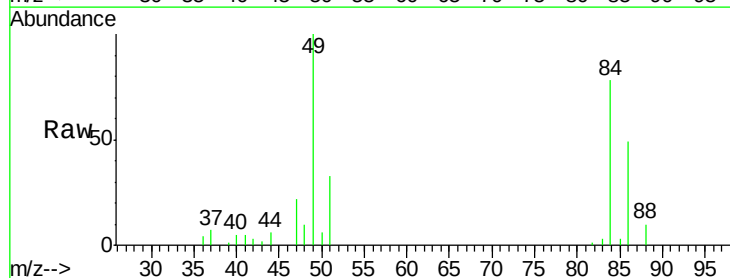
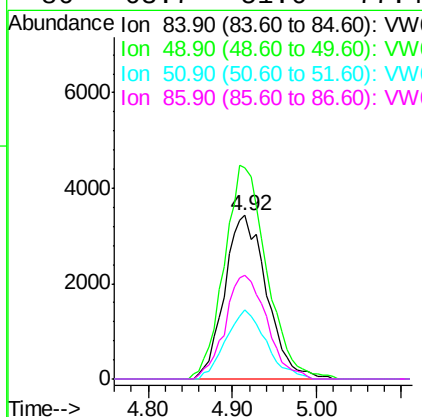
Manual Integrations
APPROVED

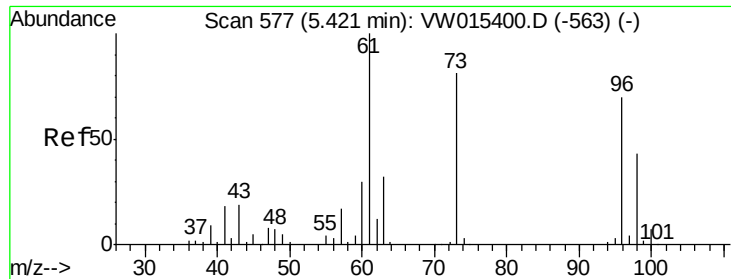
MMDadoda
5/7/2020 10:35:00 AM



#20
Methylene Chloride
Concen: 5.019 ug/l
RT: 4.92 min Scan# 494
Delta R.T. -0.00 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Tgt Ion: 84 Resp: 11675
Ion Ratio Lower Upper
84 100
49 129.0 106.4 159.6
51 42.1 30.2 45.2
86 63.7 51.6 77.4





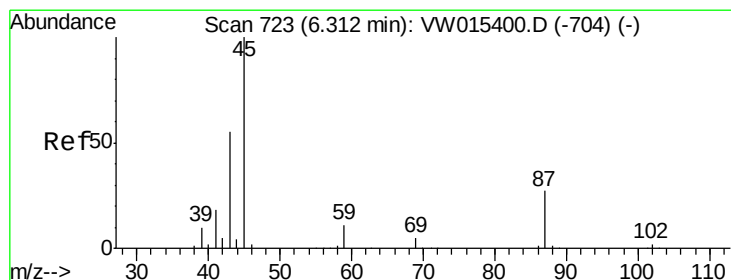
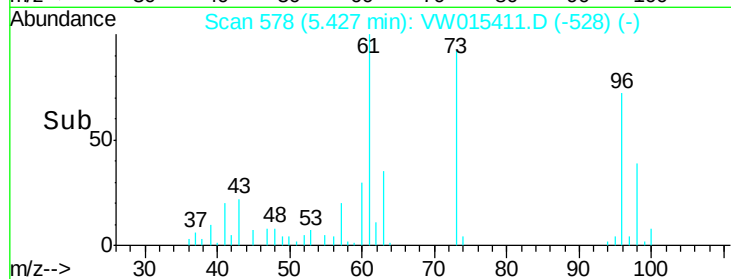
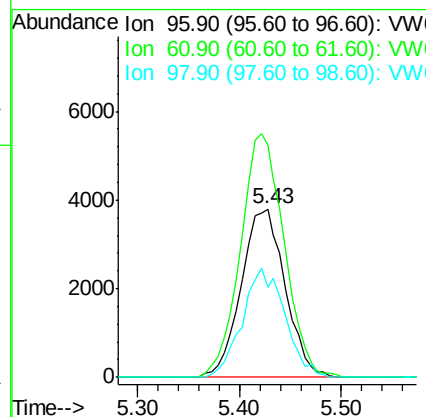
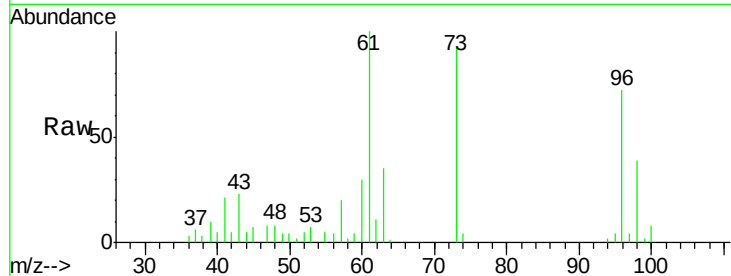
#21
trans-1,2-Dichloroethene
Concen: 4.957 ug/l
RT: 5.43 min Scan# 578
Delta R.T. 0.01 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2020

Tot Ion	Ratio	Lower	Upper
96	100		
61	138.1	114.9	172.3
98	53.6	49.4	74.0

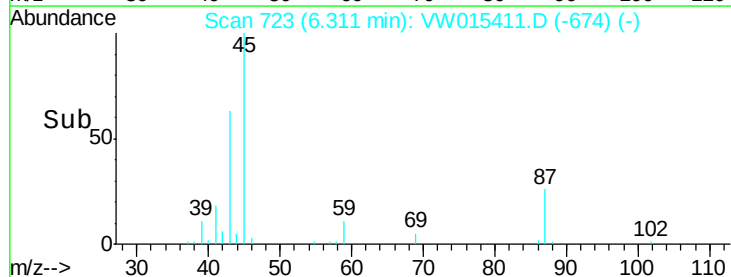
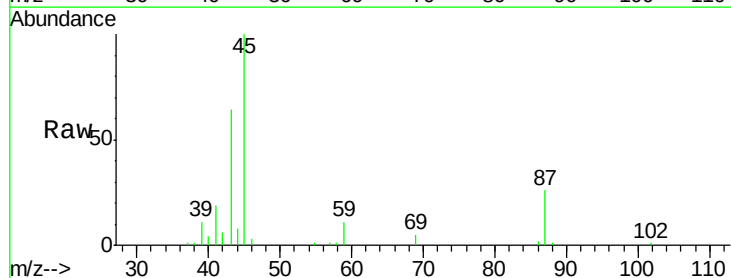
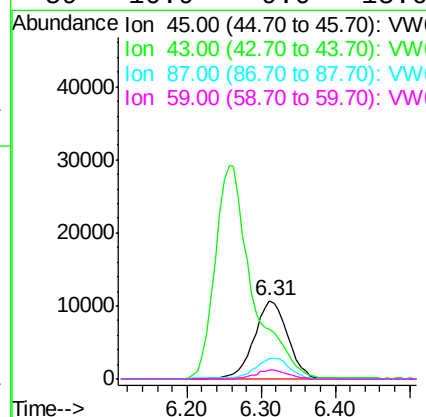
Manual Integrations
APPROVED

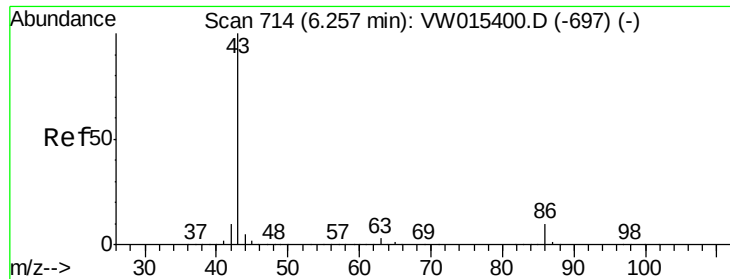
MMDadoda
5/7/2020 10:35:00 AM



#22
Diisopropyl ether
Concen: 4.933 ug/l
RT: 6.31 min Scan# 723
Delta R.T. -0.00 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Tgt Ion	Ratio	Lower	Upper
45	100		
43	62.3	44.2	66.4
87	25.6	21.6	32.4
59	10.9	9.0	13.6





#23

Vinyl Acetate

Concen: 24.059 ug/l

RT: 6.26 min Scan# 714

Delta R.T. -0.00 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT2-2020

Tot Ion: 43 Resp: 101053

Ion Ratio Lower Upper

43 100

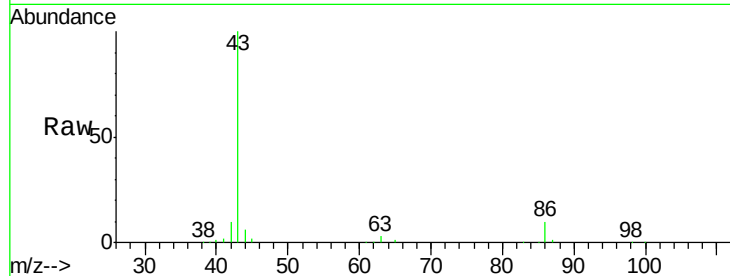
86 9.6 8.1 12.1

Manual Integrations

APPROVED

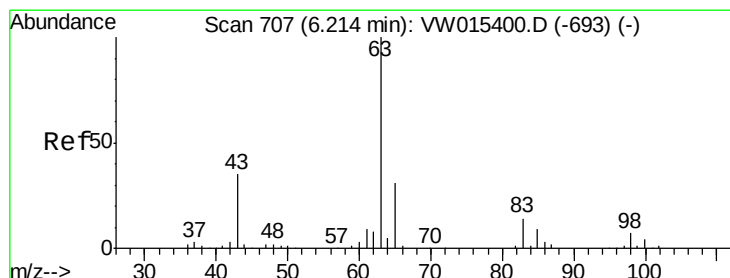
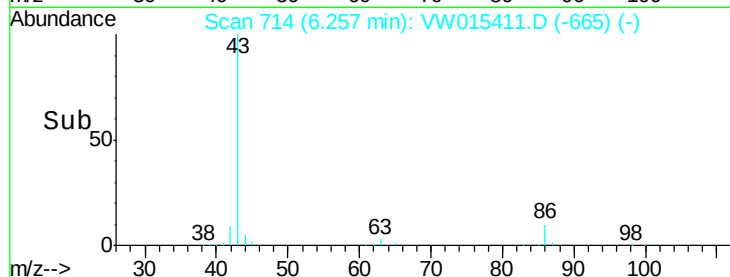
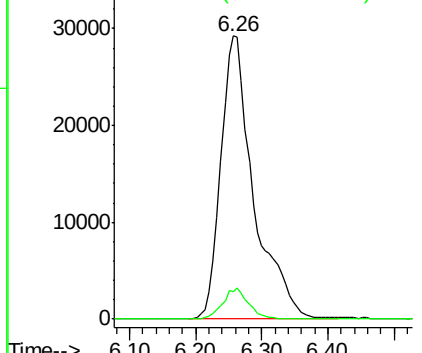
MMDadoda

5/7/2020 10:35:00 AM



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW



#24

1,1-Dichloroethane

Concen: 4.914 ug/l

RT: 6.22 min Scan# 708

Delta R.T. 0.01 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

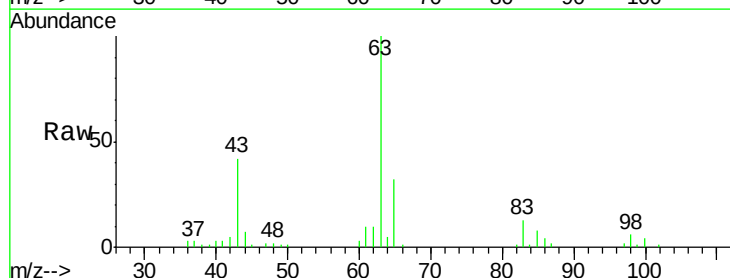
Tgt Ion: 63 Resp: 20356

Ion Ratio Lower Upper

63 100

98 6.3 3.5 10.4

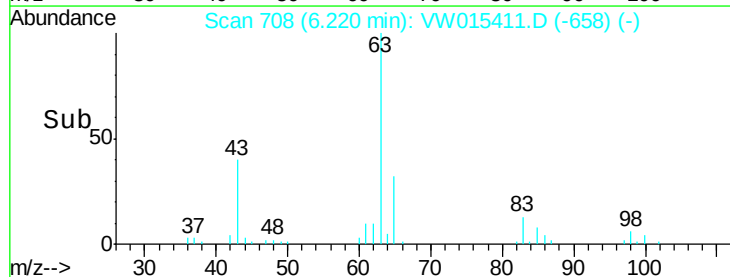
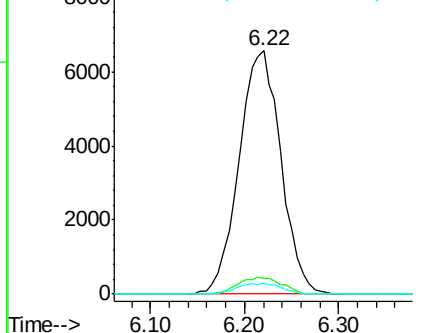
100 4.3 2.1 6.5

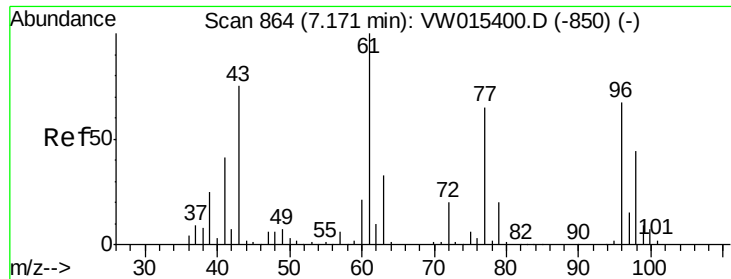


Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW





#25

2-Butanone

Concen: 26.915 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT2-2020

Tot Ion: 43 Resp: 14958

Ion Ratio Lower Upper

43 100

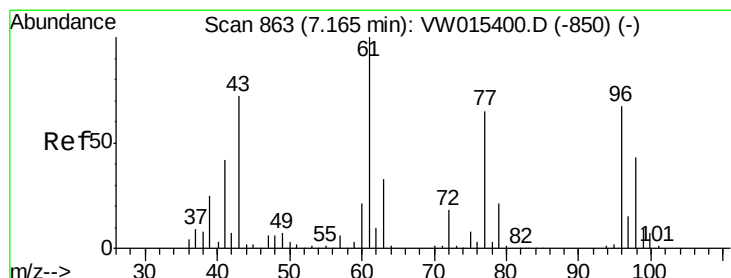
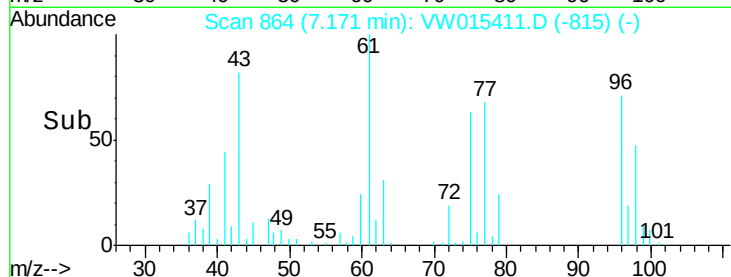
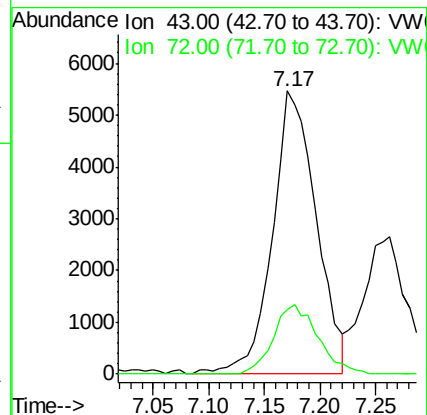
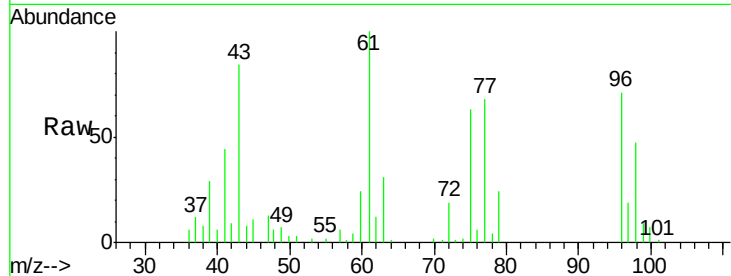
72 22.9 21.4 32.0

Manual Integrations

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MMDadoda

5/7/2020 10:35:00 AM



#26

2,2-Dichloropropane

Concen: 5.301 ug/l

RT: 7.16 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW015411.D

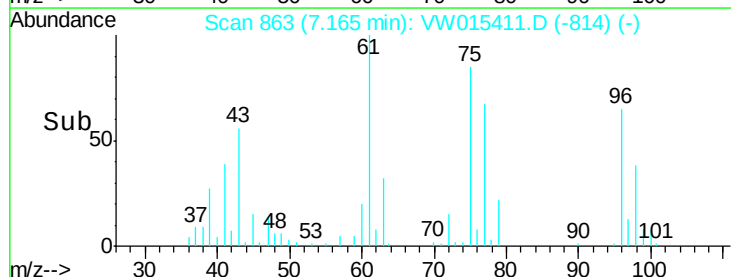
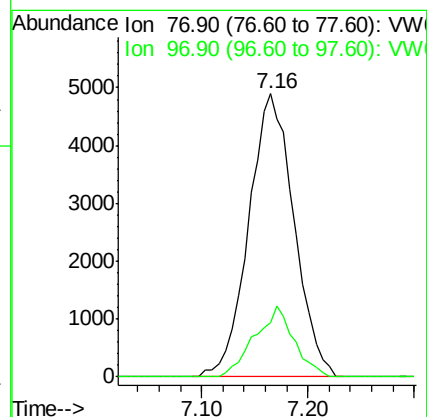
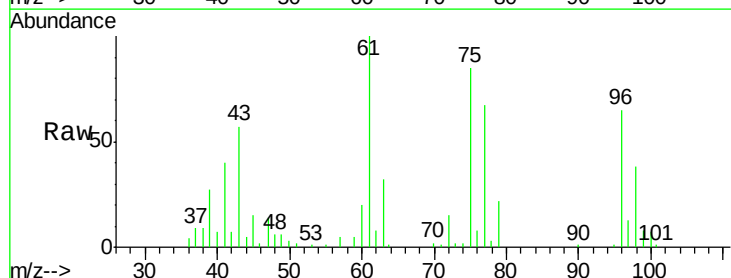
Acq: 06 May 2020 13:11

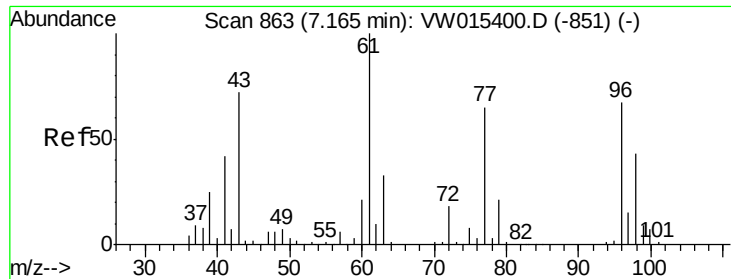
Tgt Ion: 77 Resp: 14554

Ion Ratio Lower Upper

77 100

97 21.6 11.1 33.1





#27

cis-1,2-Dichloroethene

Concen: 5.014 ug/l

RT: 7.16 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

Instrument :

MSVOA_W

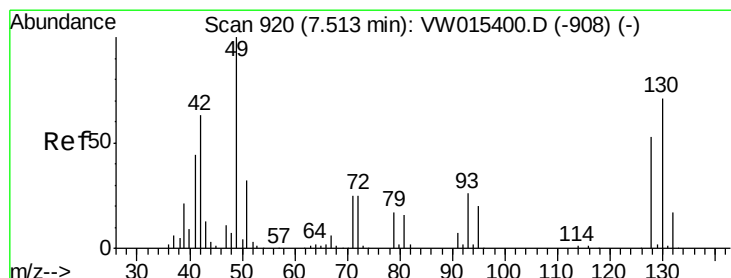
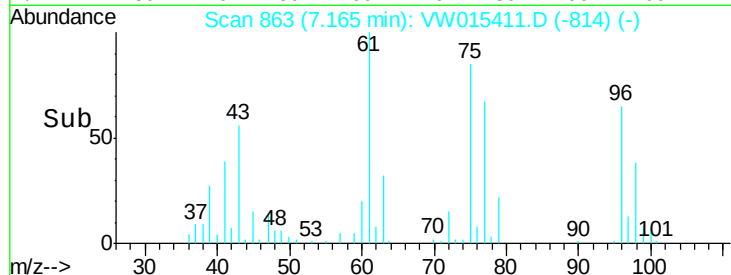
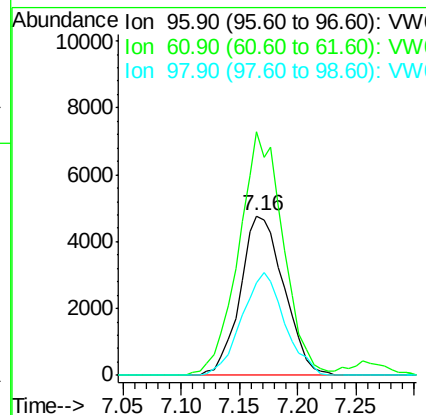
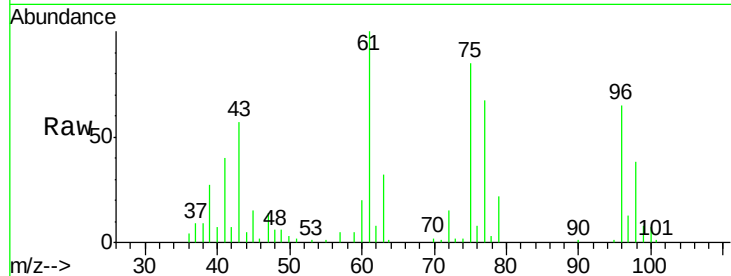
ClientSampleId :

LOQ-SOIL-02-QT2-2020

Tot Ion:	96	Resp:	12473
Ion	Ratio	Lower	Upper
96	100		
61	154.9	0.0	304.6
98	63.2	0.0	129.2

Manual Integrations
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5/7/2020 10:35:00 AM



#28

Bromochloromethane

Concen: 5.381 ug/l

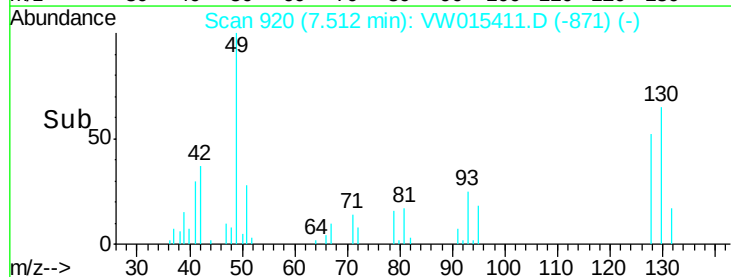
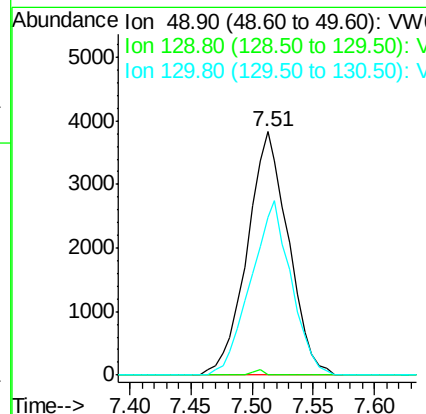
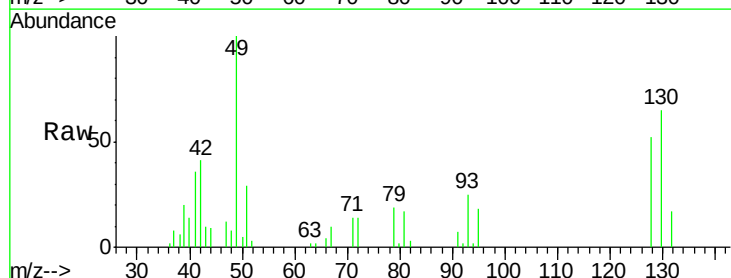
RT: 7.51 min Scan# 920

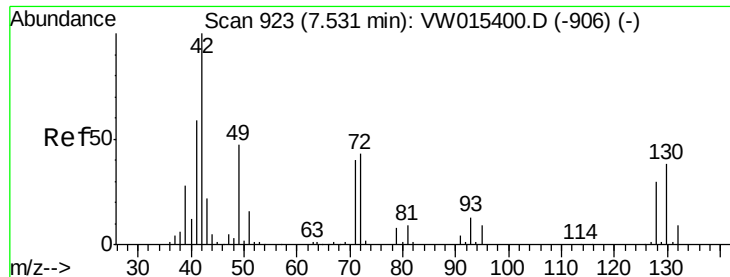
Delta R.T. -0.00 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

Tgt Ion:	49	Resp:	8963
Ion	Ratio	Lower	Upper
49	100		
129	0.5	0.0	3.0
130	70.3	57.0	85.4





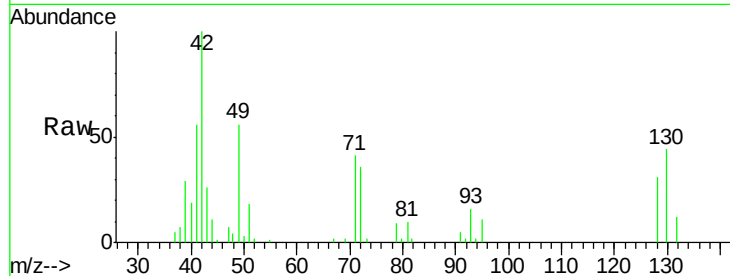
#29
Tetrahydrofuran
Concen: 26.289 ug/l
RT: 7.53 min Scan# 923
Delta R.T. -0.00 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2020

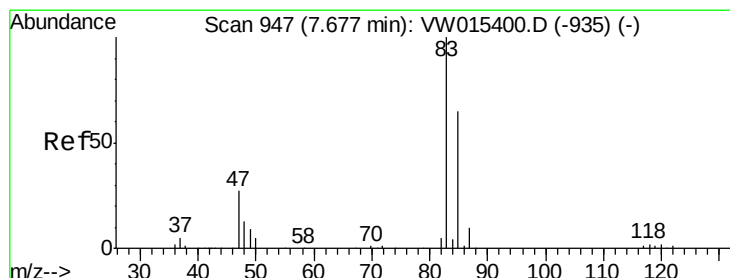
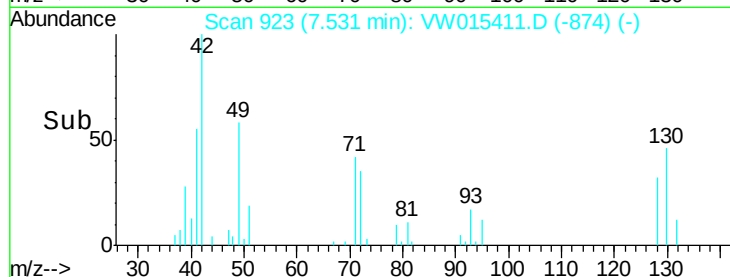
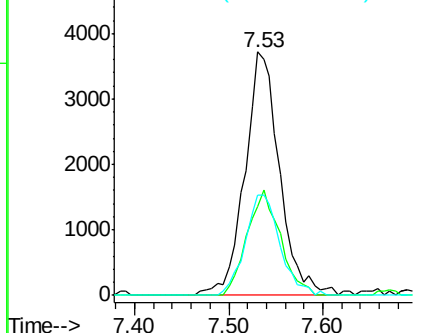
Tot Ion	Ratio	Lower	Upper
42	100		
72	41.1	33.6	50.4
71	41.3	32.1	48.1

Manual Integrations
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5/7/2020 10:35:00 AM

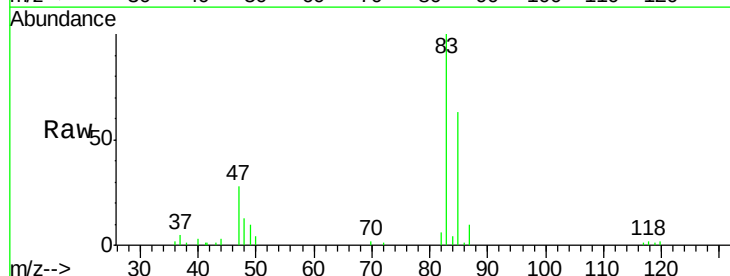


Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW

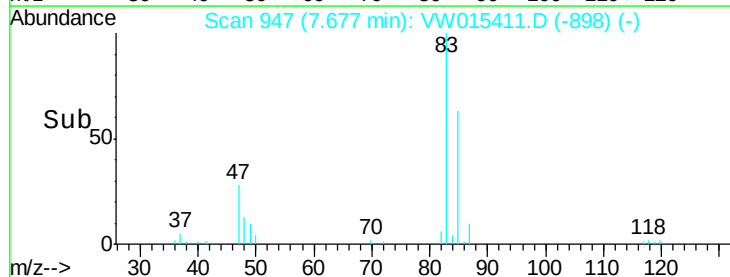
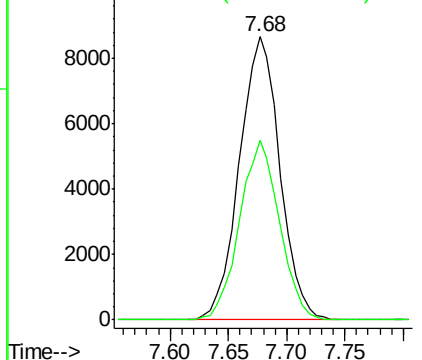


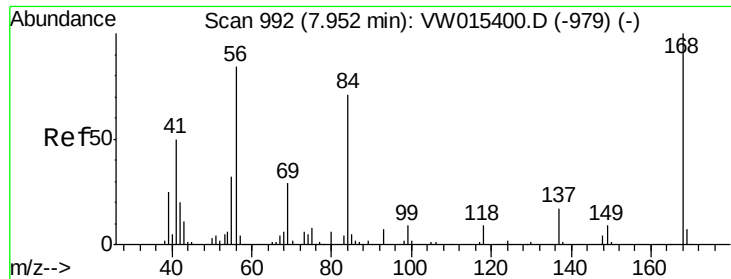
#30
Chloroform
Concen: 5.072 ug/l
RT: 7.68 min Scan# 947
Delta R.T. -0.00 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.3	51.8	77.6



Abundance Ion 82.90 (82.60 to 83.60): VW
Ion 84.90 (84.60 to 85.60): VW





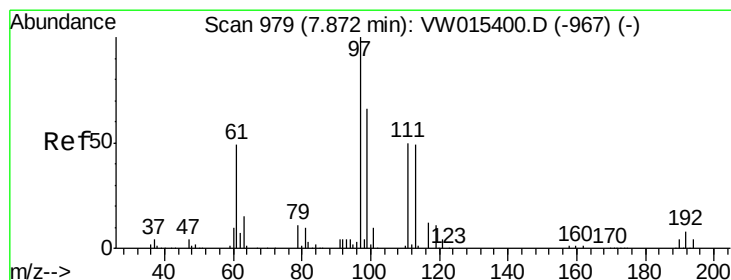
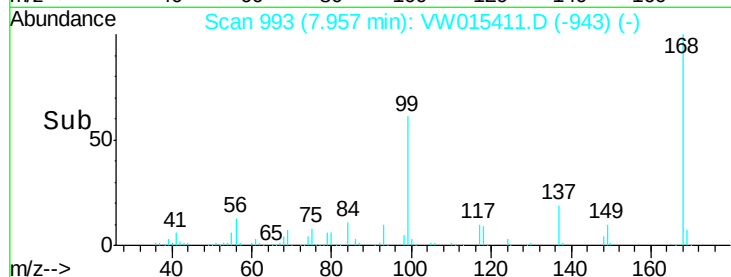
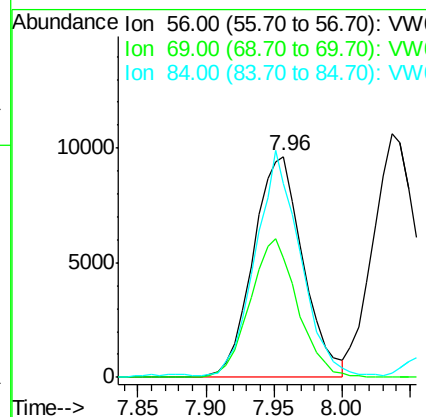
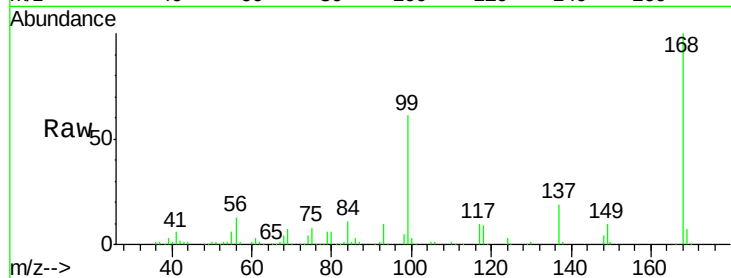
#31
Cyclohexane
Concen: 5.884 ug/l
RT: 7.96 min Scan# 993
Delta R.T. 0.01 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2020

Tot Ion	Ratio	Lower	Upper
56	100		
69	54.1	27.2	40.8#
84	86.5	67.7	101.5

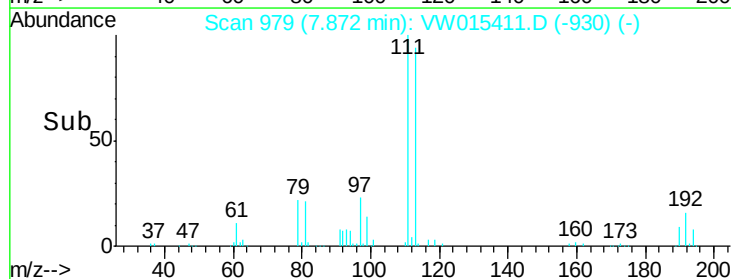
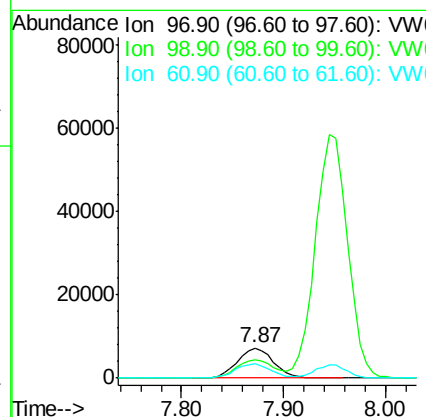
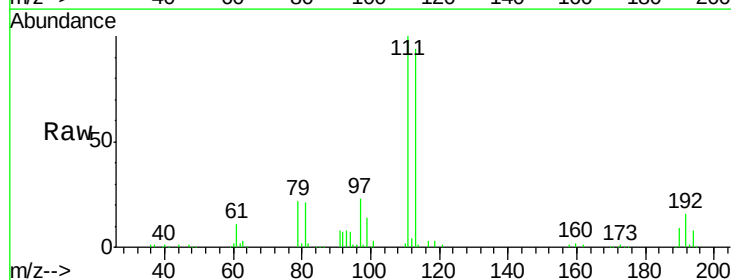
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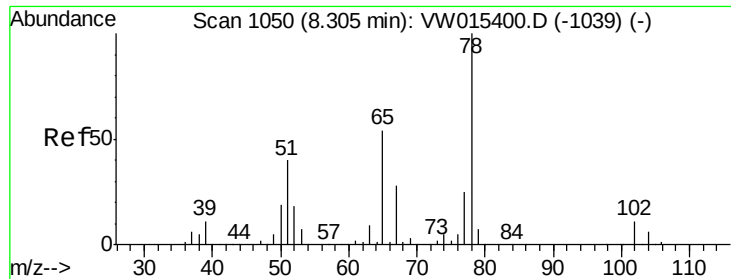
MMDadoda
5/7/2020 10:35:00 AM



#32
1,1,1-Trichloroethane
Concen: 5.135 ug/l
RT: 7.87 min Scan# 979
Delta R.T. -0.00 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.7	50.7	76.1
61	47.3	38.0	57.0





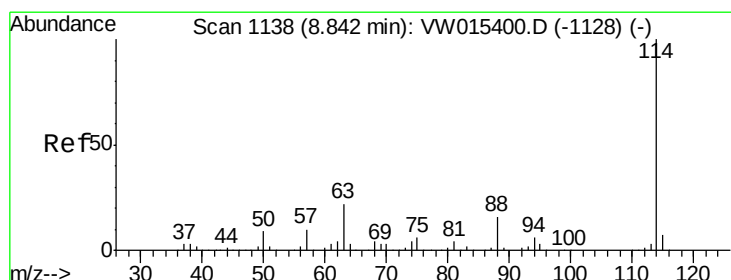
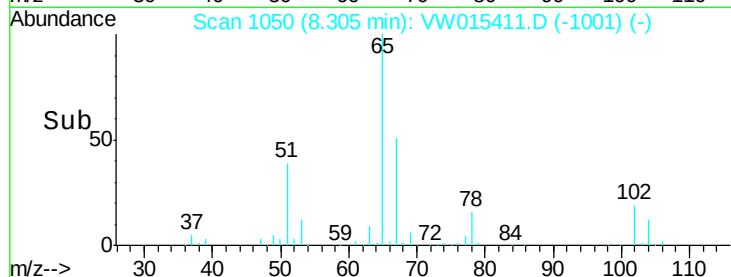
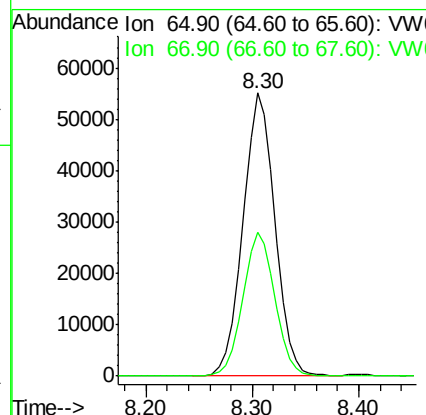
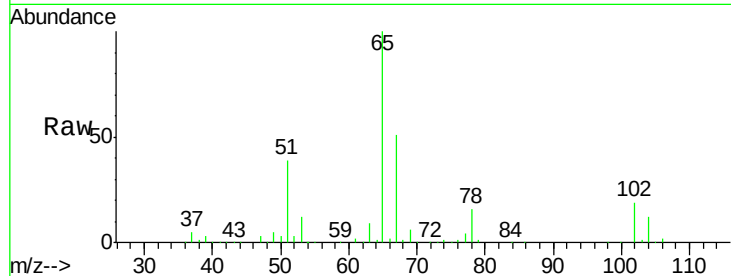
#33
 1,2-Dichloroethane-d4
 Concen: 50.640 ug/l
 RT: 8.30 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW015411.D
 Acq: 06 May 2020 13:11

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT2-2020

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	50.6	0.0	102.8	

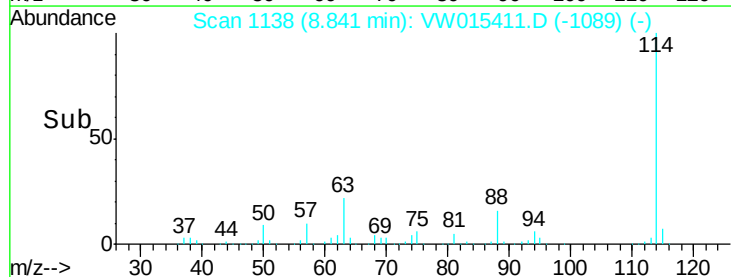
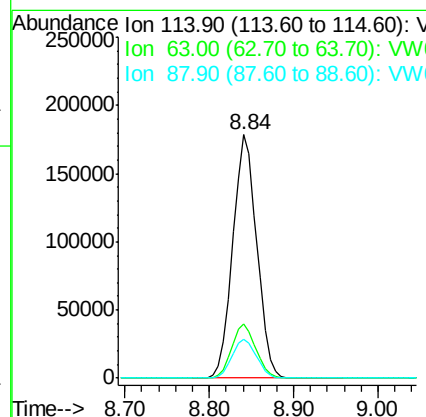
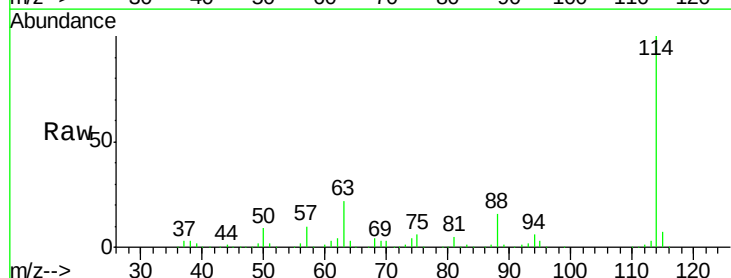
Manual Integrations
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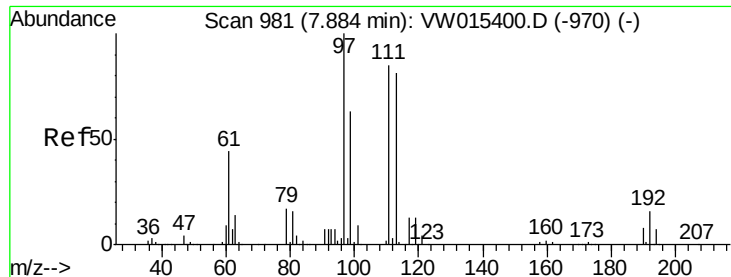
MMDadoda
 5/7/2020 10:35:00 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW015411.D
 Acq: 06 May 2020 13:11

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	22.3	0.0	43.4	
88	16.2	0.0	31.8	





#35

Dibromofluoromethane

Concen: 50.458 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

Instrument :

MSVOA_W

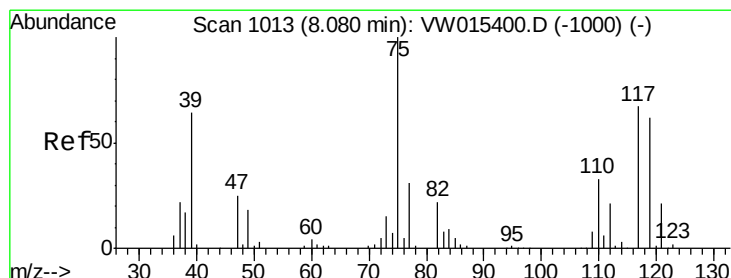
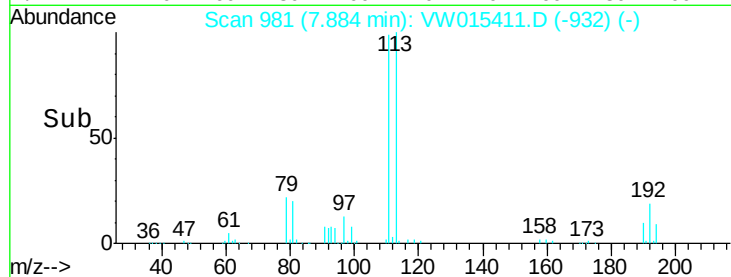
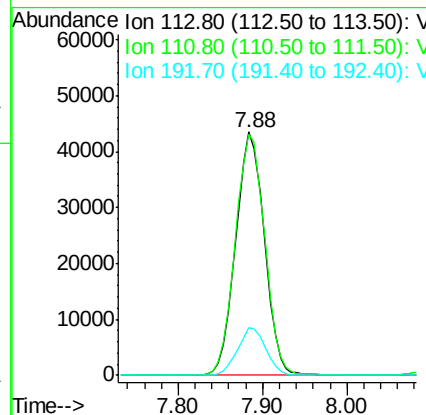
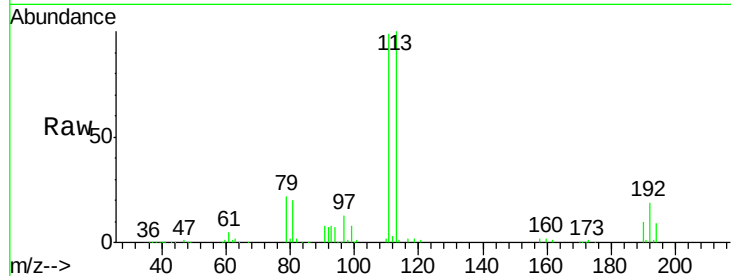
ClientSampleId :

LOQ-SOIL-02-QT2-2020

Tot Ion:	113	Resp:	100028
Ion Ratio	Lower	Upper	
113	100		
111	102.2	82.9	124.3
192	19.3	15.4	23.0

Manual Integrations
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5/7/2020 10:35:00 AM



#36

1,1-Dichloropropene

Concen: 5.024 ug/l

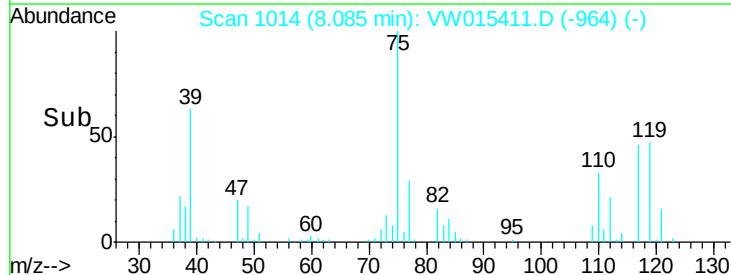
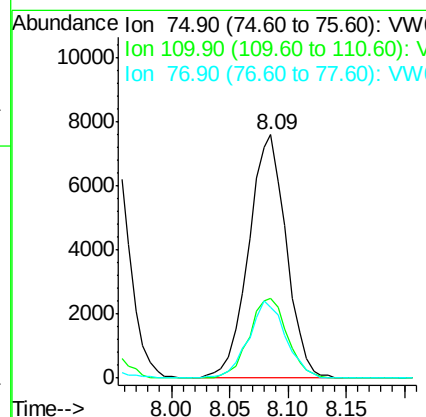
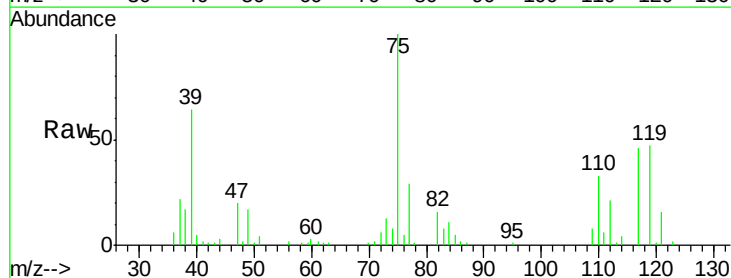
RT: 8.09 min Scan# 1014

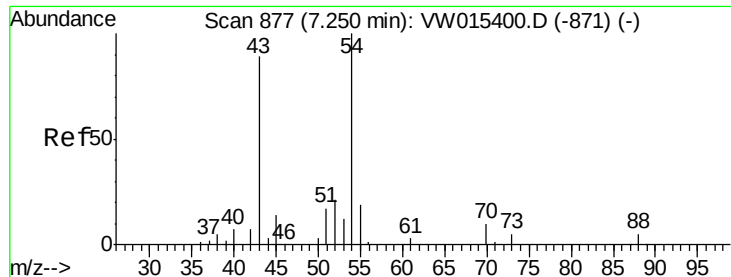
Delta R.T. 0.01 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

Tgt Ion:	75	Resp:	17050
Ion Ratio	Lower	Upper	
75	100		
110	33.1	16.6	49.8
77	31.4	24.5	36.7





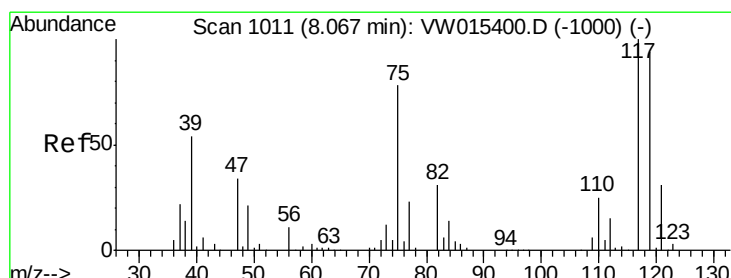
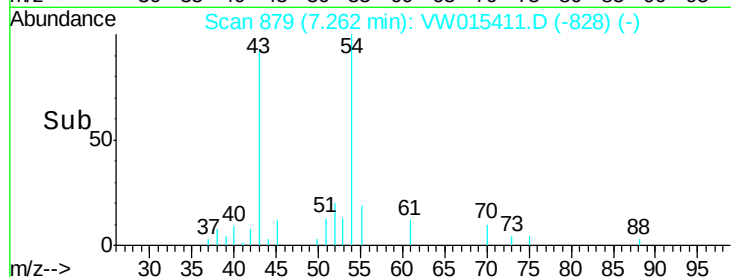
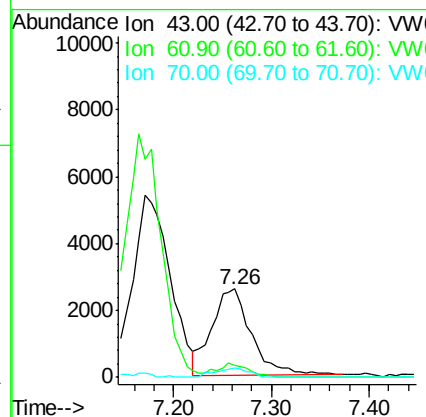
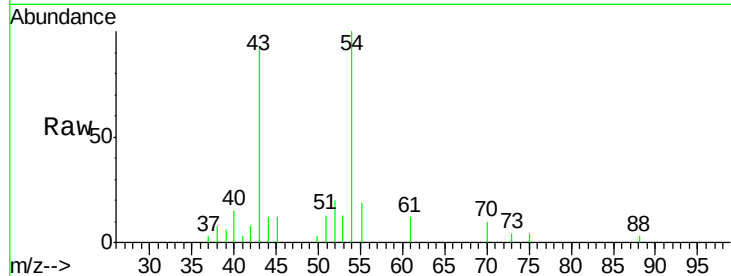
#37
Ethyl Acetate
Concen: 5.584 ug/l
RT: 7.26 min Scan# 879
Delta R.T. 0.01 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2020

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.7	10.2	15.2
70	9.0	8.0	12.0

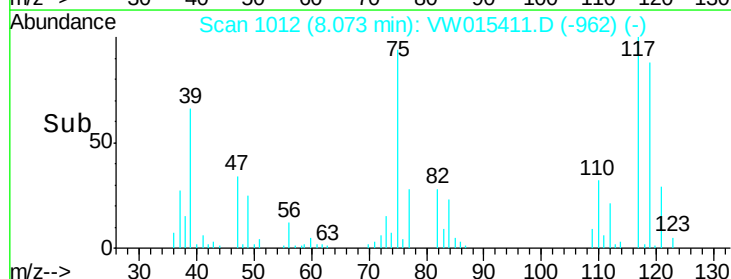
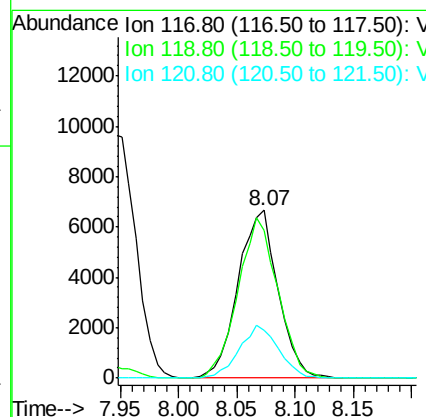
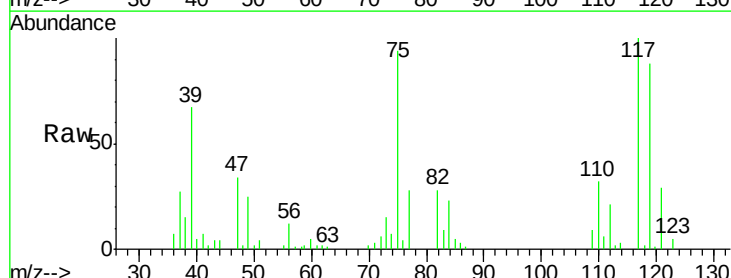
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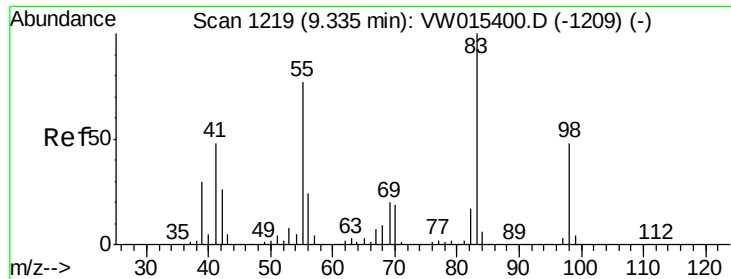
MMDadoda
5/7/2020 10:35:00 AM



#38
Carbon Tetrachloride
Concen: 5.014 ug/l
RT: 8.07 min Scan# 1012
Delta R.T. 0.01 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Tgt Ion	Ratio	Lower	Upper
117	100		
119	88.2	75.4	113.0
121	28.5	24.8	37.2





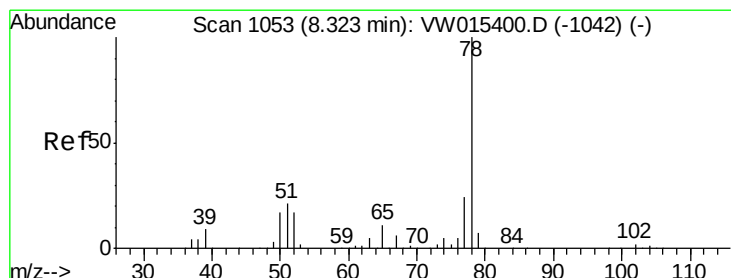
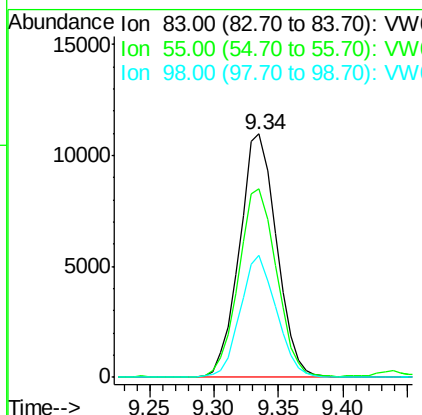
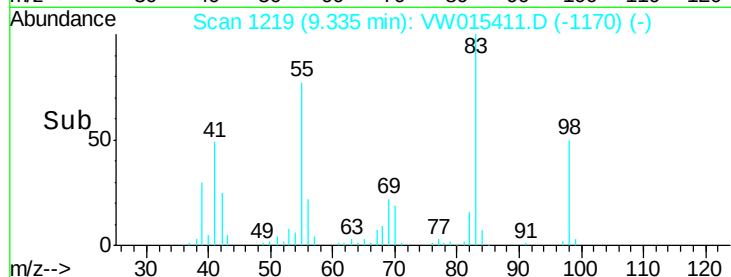
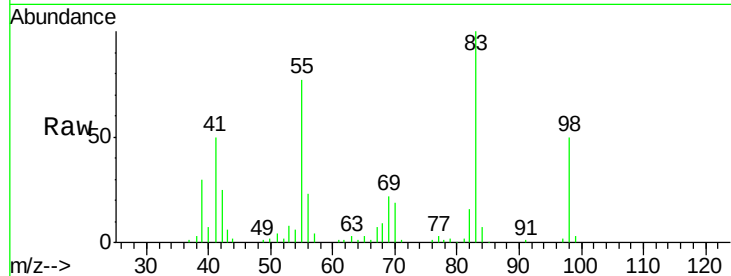
#39
Methylvclclohexane
Concen: 5.103 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2020

Tot Ion	Ratio	Resp	Lower	Upper
83	100	21918		
55	77.4	61.9	92.9	
98	50.0	38.2	57.2	

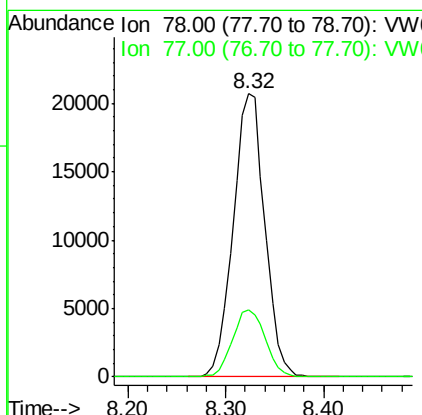
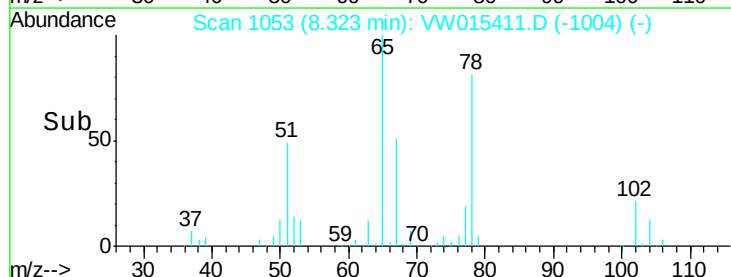
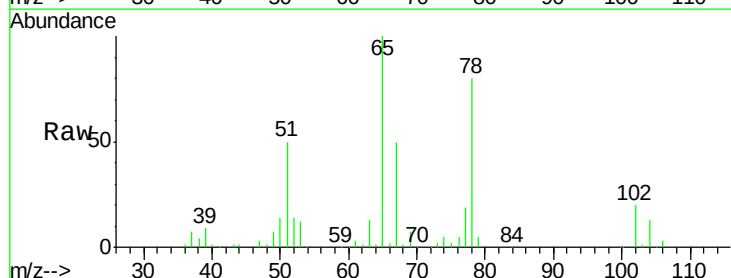
Manual Integrations
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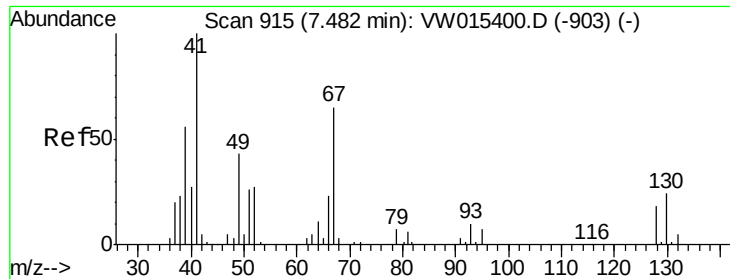
MMDadoda
5/7/2020 10:35:00 AM



#40
Benzene
Concen: 4.992 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	46197		
77	23.6	19.0	28.4	





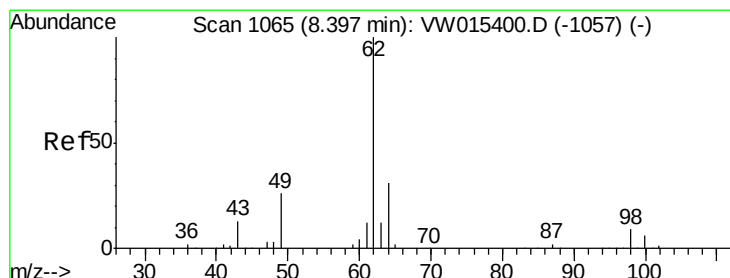
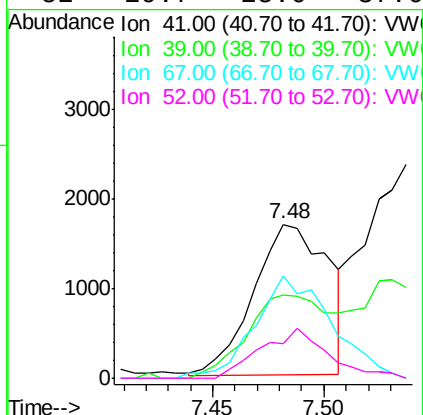
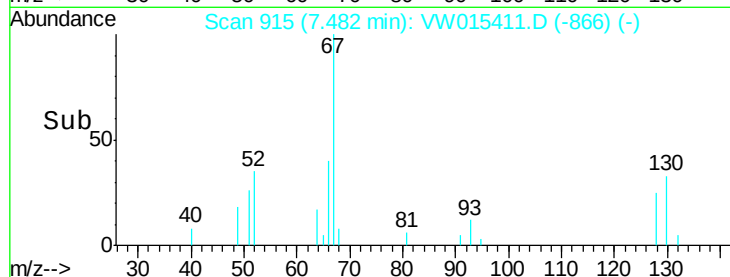
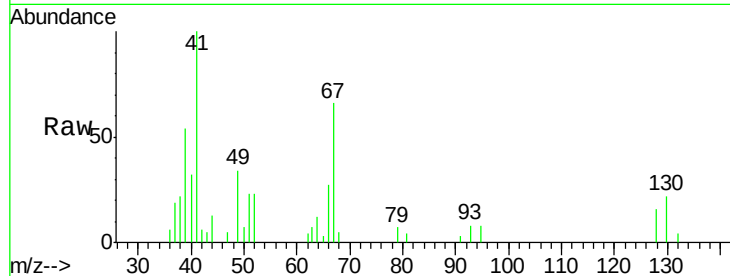
#41
Methacrylonitrile
Concen: 4.766 ug/l
RT: 7.48 min Scan# 915
Delta R.T. -0.00 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2020

Tot Ion	41	Resp	3965
Ion	Ratio	Lower	Upper
41	100		
39	61.0	46.2	69.4
67	69.1	56.2	84.2
52	29.7	25.0	37.6

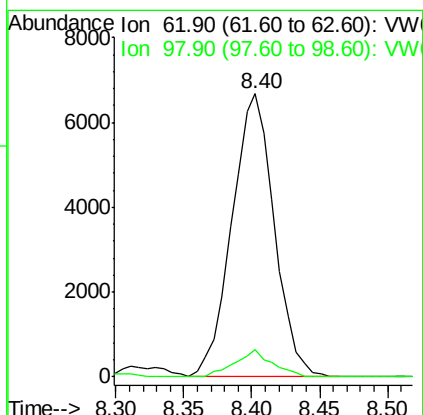
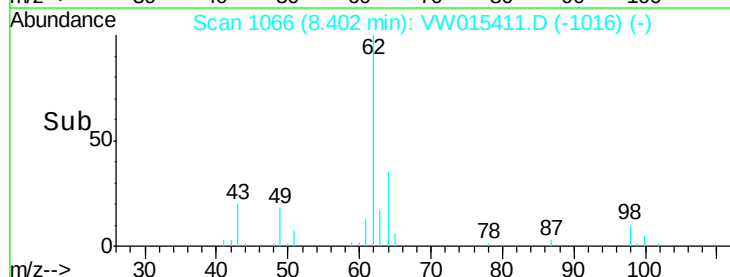
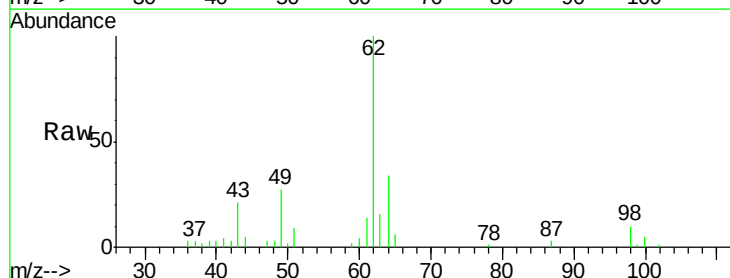
Manual Integrations
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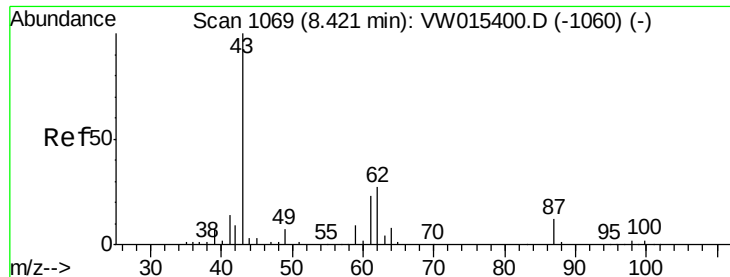
MMDadoda
5/7/2020 10:35:00 AM



#42
1,2-Dichloroethane
Concen: 5.132 ug/l
RT: 8.40 min Scan# 1066
Delta R.T. 0.01 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Tgt Ion	62	Resp	14467
Ion	Ratio	Lower	Upper
62	100		
98	8.4	0.0	17.6





#43

Isopropyl Acetate

Concen: 5.030 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. 0.01 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

Instrument :

MSVOA_W

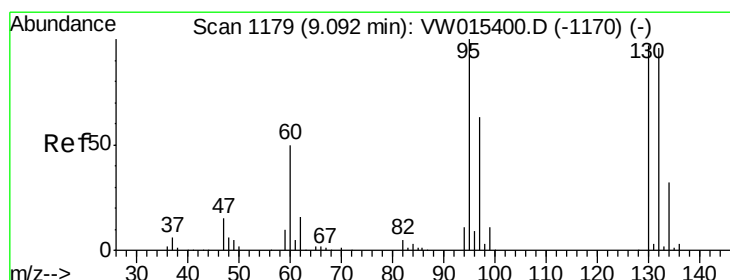
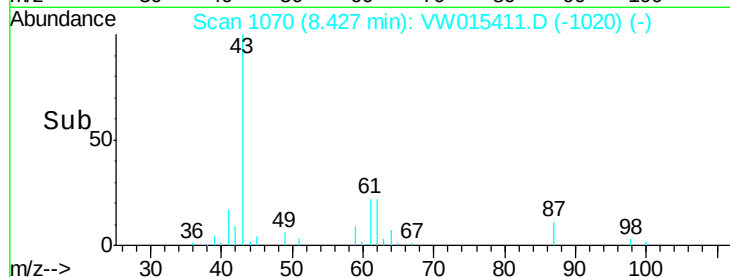
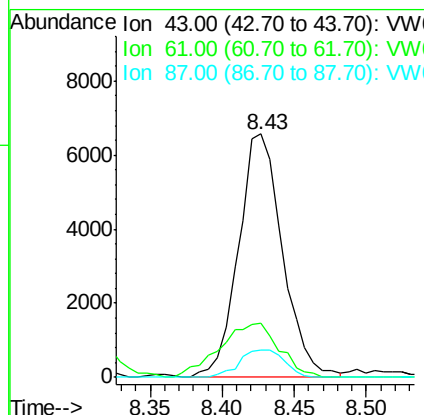
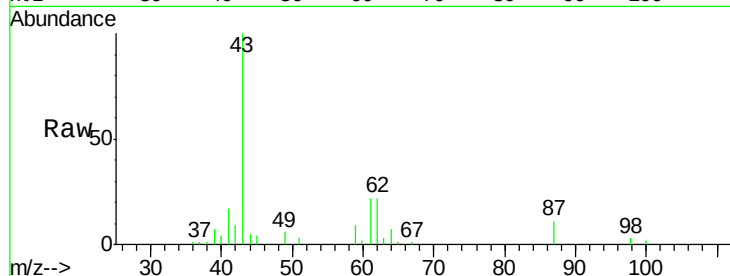
ClientSampleId :

LOQ-SOIL-02-QT2-2020

Tot Ion:	43	Resp:	13930
Ion	Ratio	Lower	Upper
43	100		
61	30.2	24.3	36.5
87	11.5	10.1	15.1

Manual Integrations
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MMDadoda
5/7/2020 10:35:00 AM



#44

Trichloroethene

Concen: 4.945 ug/l

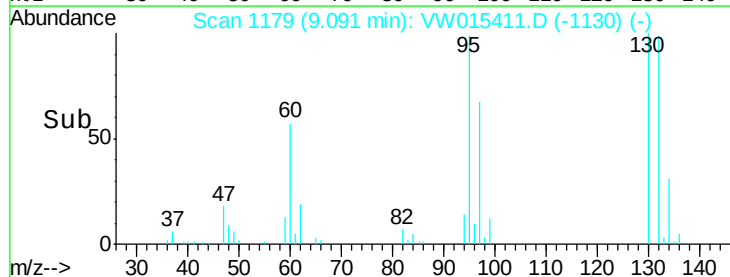
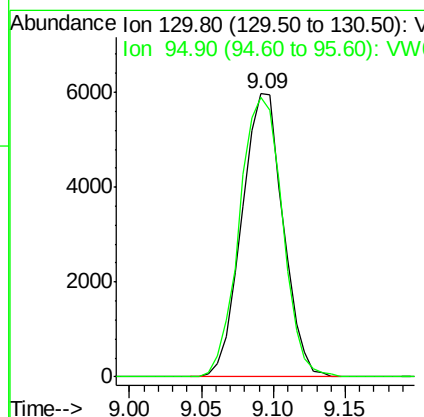
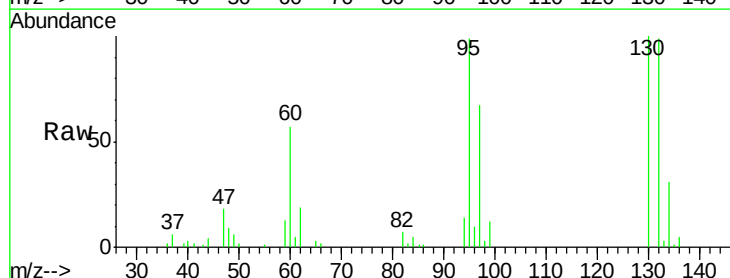
RT: 9.09 min Scan# 1179

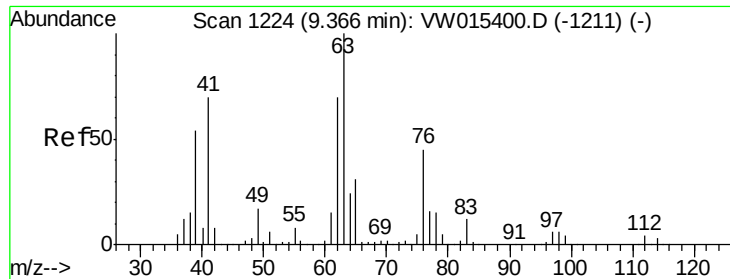
Delta R.T. -0.00 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

Tgt Ion:	130	Resp:	11861
Ion	Ratio	Lower	Upper
130	100		
95	98.6	0.0	205.8





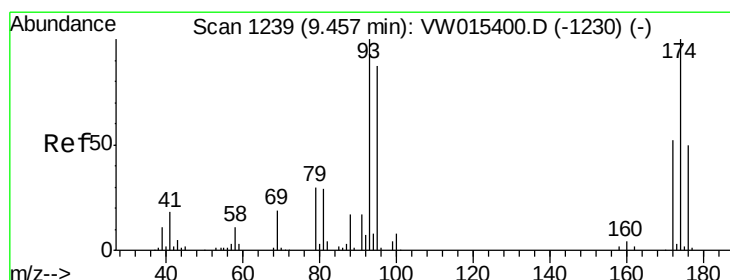
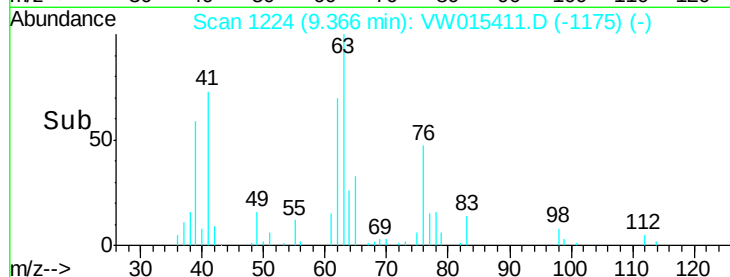
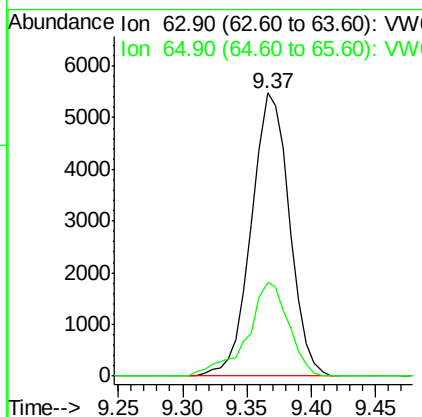
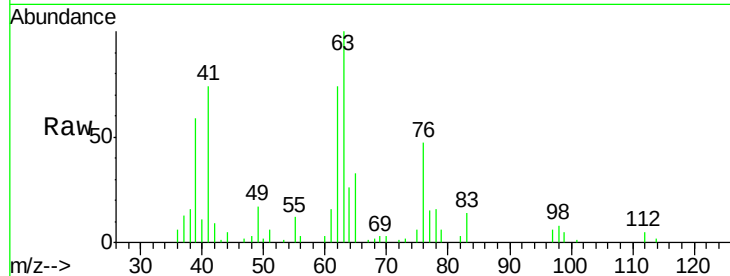
#45
 1,2-Dichloropropane
 Concen: 4.895 ug/l
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.00 min
 Lab File: VW015411.D
 Acq: 06 May 2020 13:11

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT2-2020

Tot Ion: 63 Resp: 11191
 Ion Ratio Lower Upper
 63 100
 65 33.3 25.0 37.6

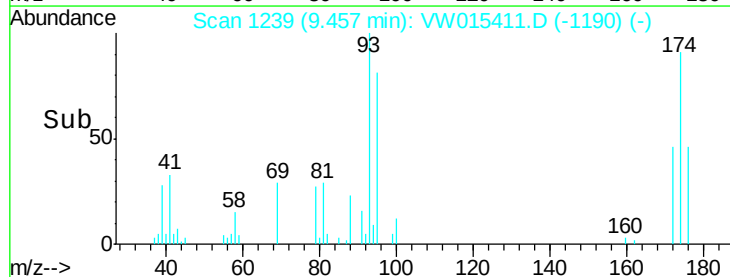
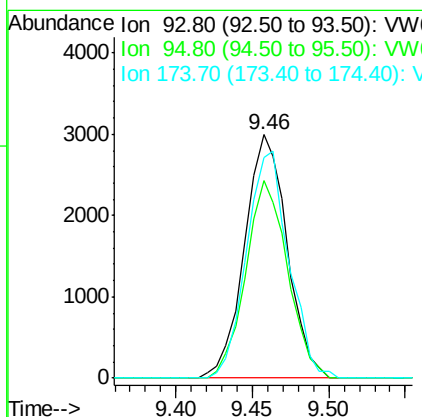
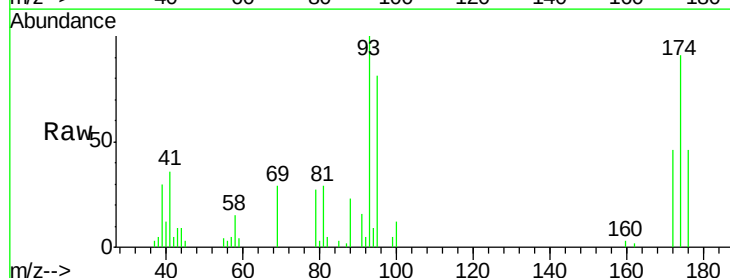
Manual Integrations
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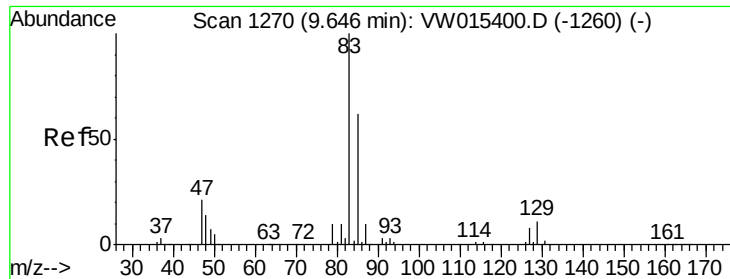
MMDadoda
 5/7/2020 10:35:00 AM



#46
 Dibromomethane
 Concen: 5.083 ug/l
 RT: 9.46 min Scan# 1239
 Delta R.T. -0.00 min
 Lab File: VW015411.D
 Acq: 06 May 2020 13:11

Tgt Ion: 93 Resp: 5780
 Ion Ratio Lower Upper
 93 100
 95 80.0 67.0 100.4
 174 92.8 78.4 117.6





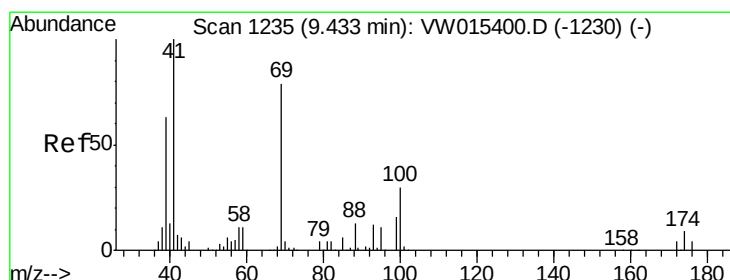
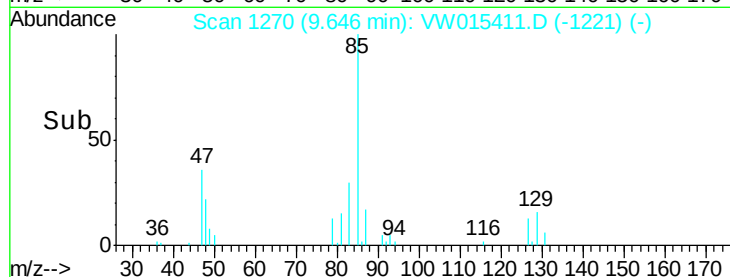
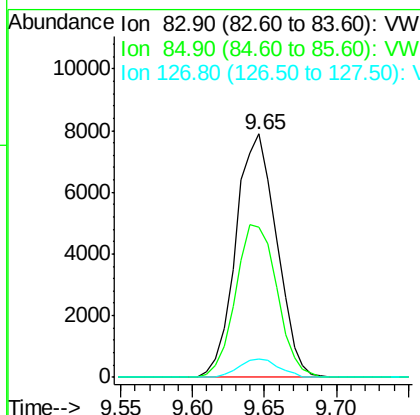
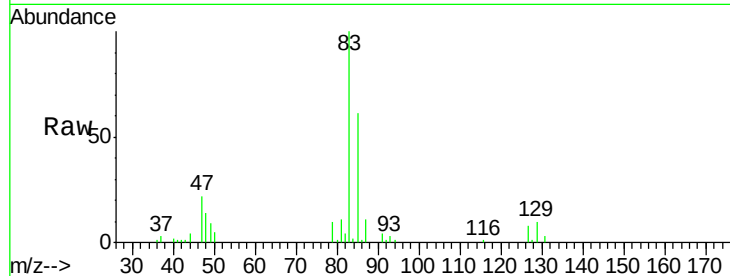
#47
 Bromodichloromethane
 Concen: 4.998 ug/l
 RT: 9.65 min Scan# 1270
 Delta R.T. -0.00 min
 Lab File: VW015411.D
 Acq: 06 May 2020 13:11

Instrument :
 MSVOA_W
 ClientSampled :
 LOQ-SOIL-02-QT2-2020

Tot Ion:	83	Resp:	15490
Ion	Ratio	Lower	Upper
83	100		
85	61.5	49.4	74.0
127	7.7	6.4	9.6

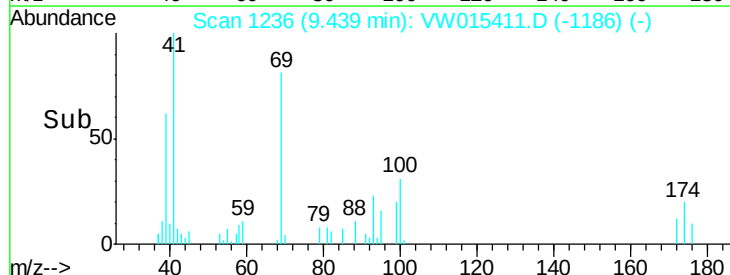
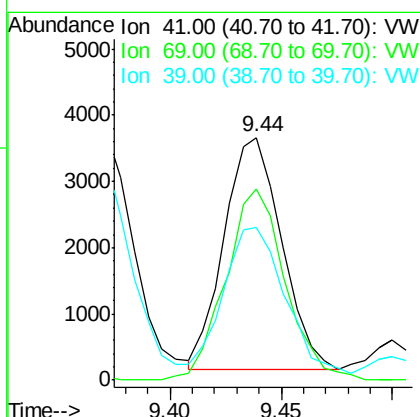
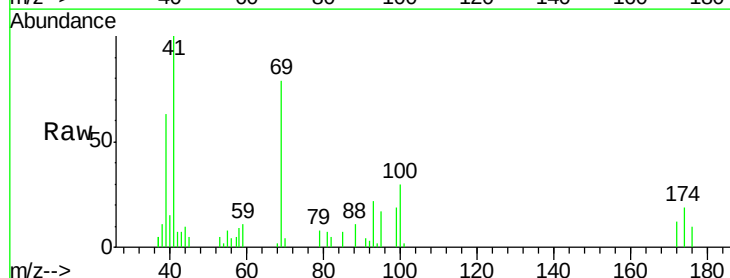
Manual Integrations
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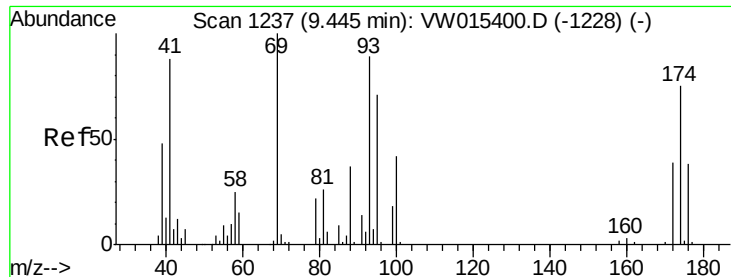
MMDadoda
 5/7/2020 10:35:00 AM



#48
 Methyl methacrylate
 Concen: 4.910 ug/l
 RT: 9.44 min Scan# 1236
 Delta R.T. 0.01 min
 Lab File: VW015411.D
 Acq: 06 May 2020 13:11

Tgt Ion:	41	Resp:	6280
Ion	Ratio	Lower	Upper
41	100		
69	85.7	66.2	99.4
39	66.4	51.1	76.7





#49

1,4-Dioxane

Concen: 103.631 ug/l

RT: 9.45 min Scan# 1238

Delta R.T. 0.01 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

Instrument :

MSVOA_W

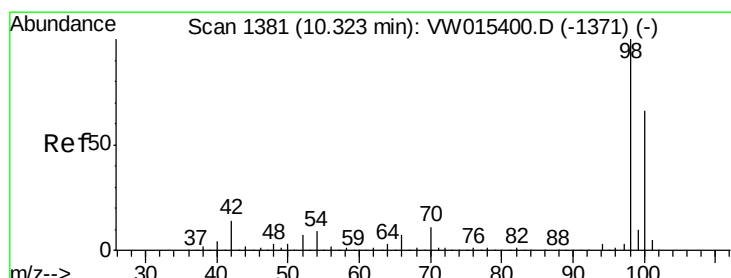
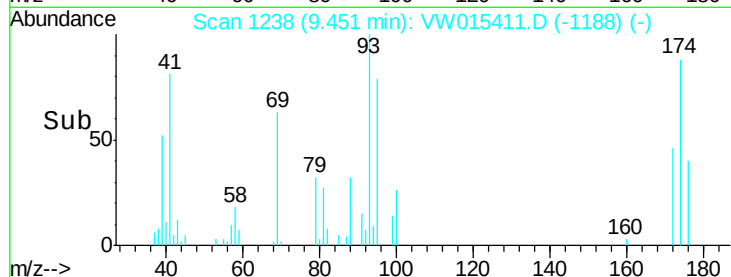
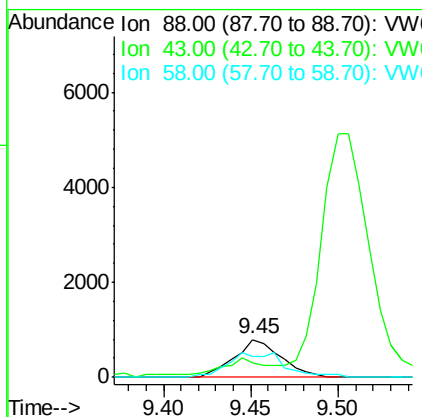
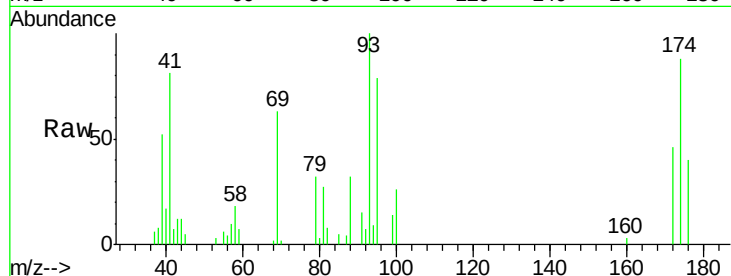
ClientSampleId :

LOQ-SOIL-02-QT2-2020

Tot Ion:	88	Resp:	1483
Ion	Ratio	Lower	Upper
88	100		
43	44.3	30.6	45.8
58	79.6	56.3	84.5

Manual Integrations
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MMDadoda
5/7/2020 10:35:00 AM



#50

Toluene-d8

Concen: 50.544 ug/l

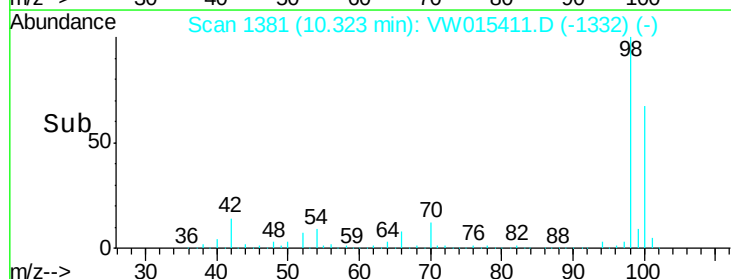
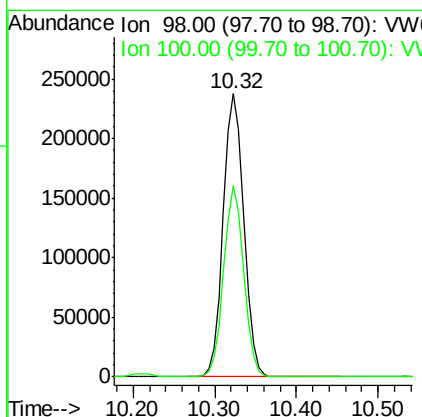
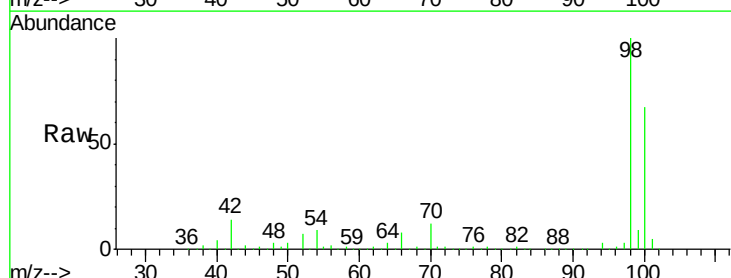
RT: 10.32 min Scan# 1381

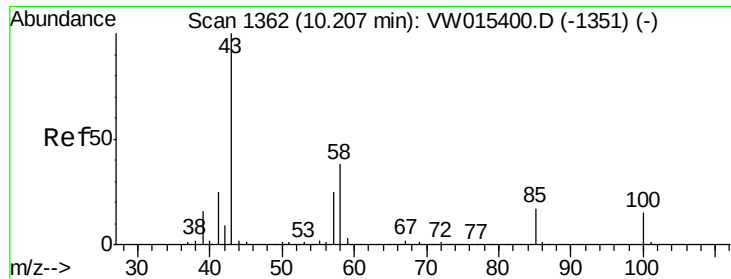
Delta R.T. -0.00 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

Tgt Ion:	98	Resp:	414659
Ion	Ratio	Lower	Upper
98	100		
100	65.7	52.7	79.1





#51

4-Methyl-2-Pentanone

Concen: 25.774 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT2-2020

Tot Ion: 43 Resp: 33449

Ion Ratio Lower Upper

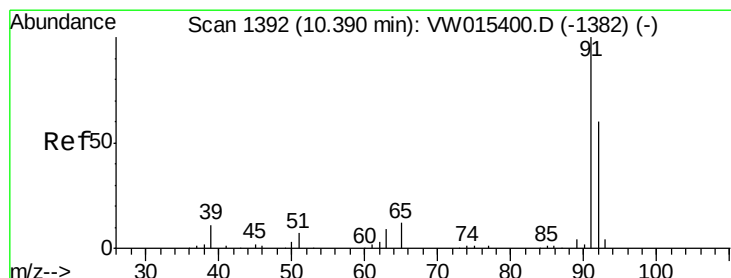
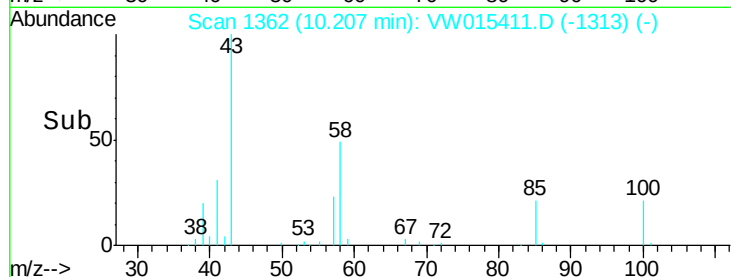
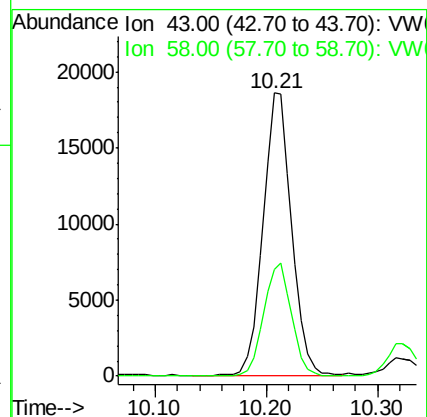
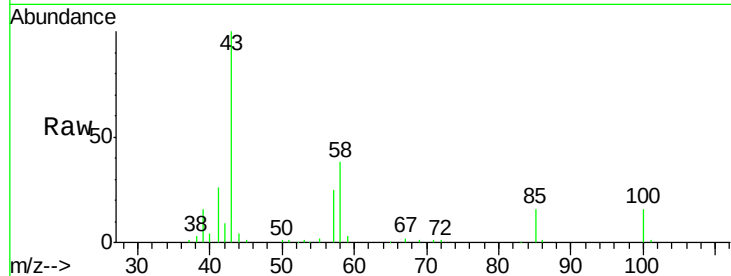
43 100

58 38.5 30.8 46.2

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MMDadoda

5/7/2020 10:35:00 AM



#52

Toluene

Concen: 4.960 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW015411.D

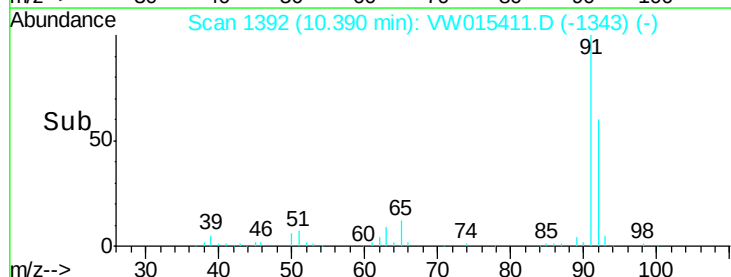
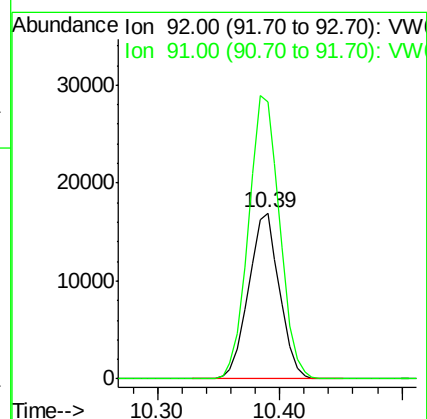
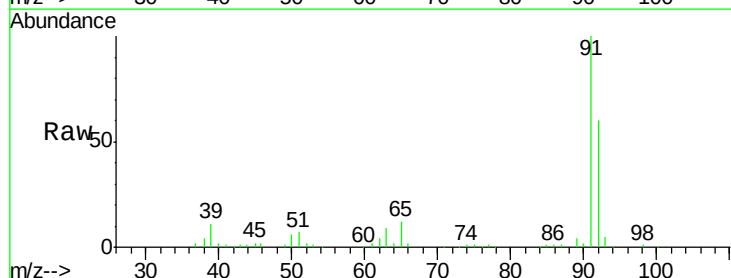
Acq: 06 May 2020 13:11

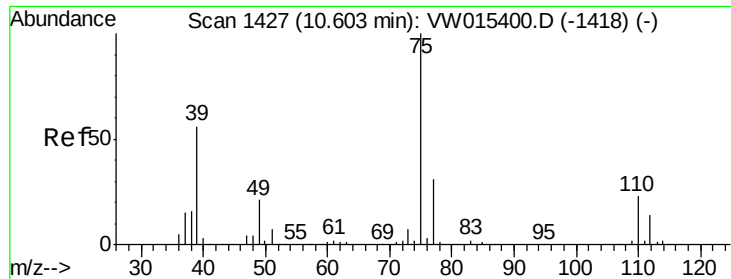
Tgt Ion: 92 Resp: 29829

Ion Ratio Lower Upper

92 100

91 171.7 135.9 203.9





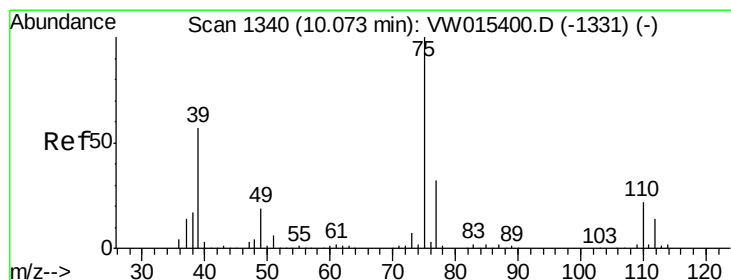
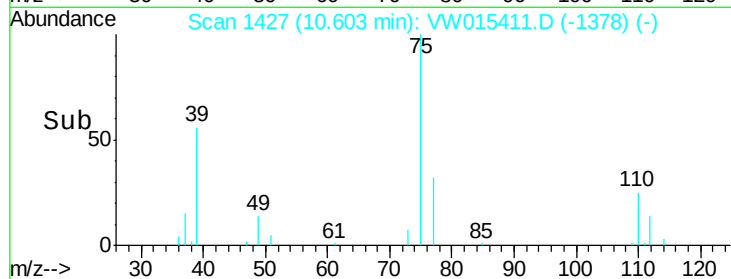
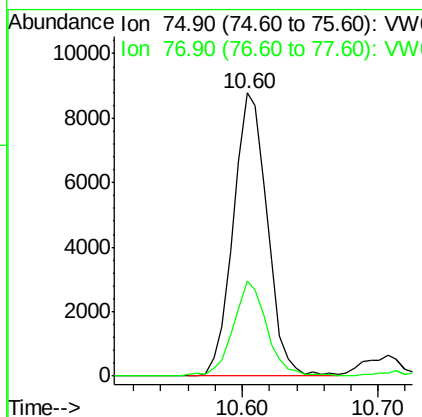
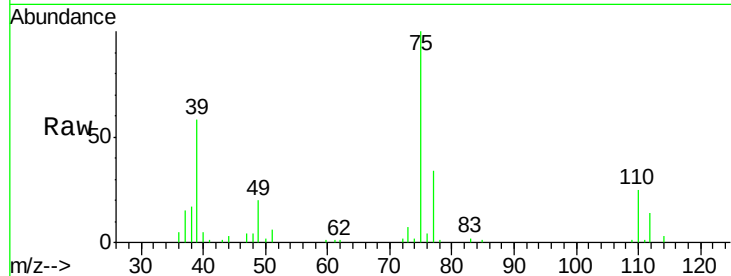
#53
t-1,3-Dichloropropene
Concen: 4.834 ug/l
RT: 10.60 min Scan# 1427
Delta R.T. -0.00 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2020

Tot Ion: 75 Resp: 15291
Ion Ratio Lower Upper
75 100
77 33.5 24.9 37.3

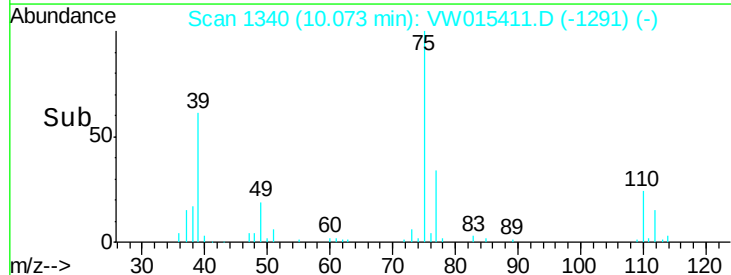
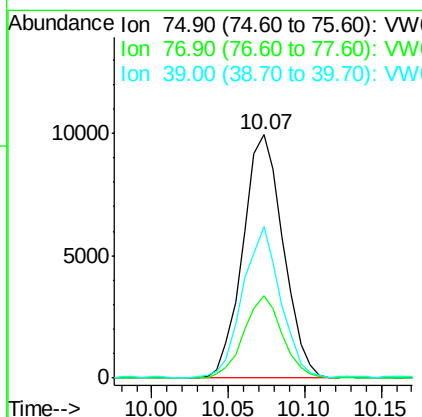
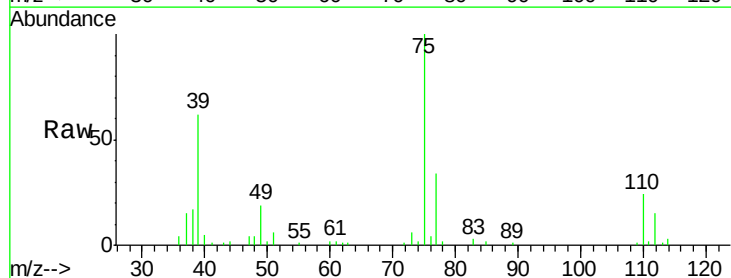
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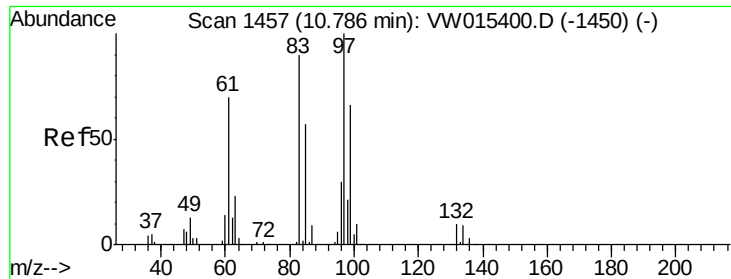
MMDadoda
5/7/2020 10:35:00 AM



#54
cis-1,3-Dichloropropene
Concen: 4.893 ug/l
RT: 10.07 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Tgt Ion: 75 Resp: 18224
Ion Ratio Lower Upper
75 100
77 33.9 25.6 38.4
39 62.0 45.6 68.4





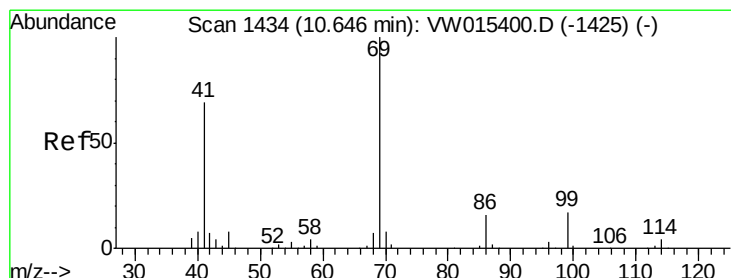
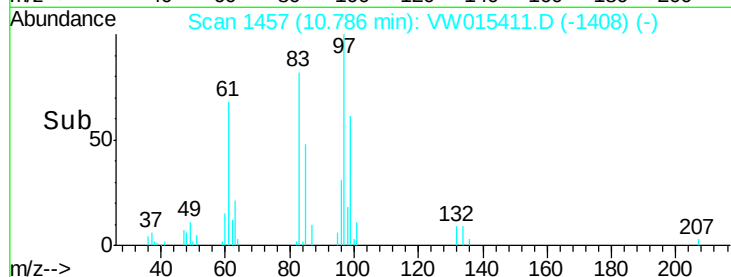
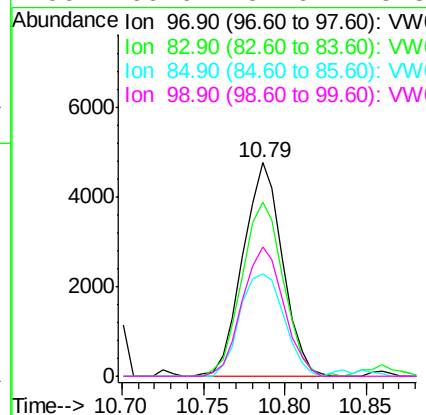
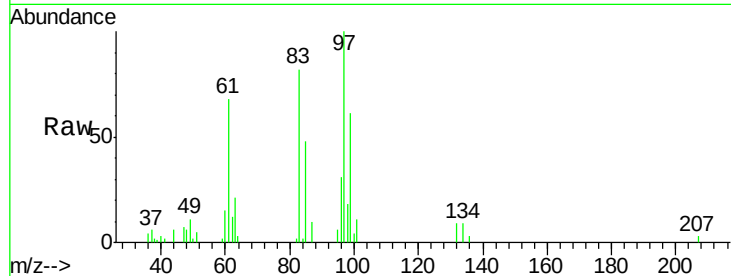
#55
 1,1,2-Trichloroethane
 Concen: 5.014 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. -0.00 min
 Lab File: VW015411.D
 Acq: 06 May 2020 13:11

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT2-2020

Tot Ion:	97	Resp:	8063
Ion	Ratio	Lower	Upper
97	100		
83	81.7	72.2	108.4
85	47.7	45.2	67.8
99	60.6	52.6	78.8

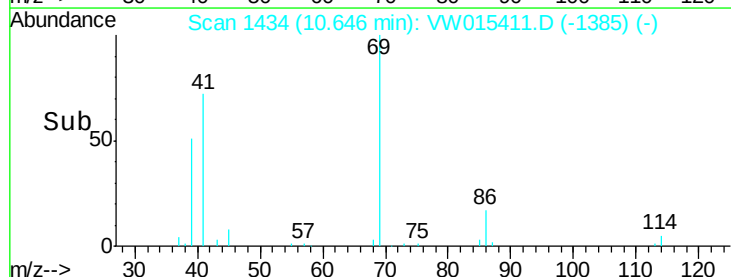
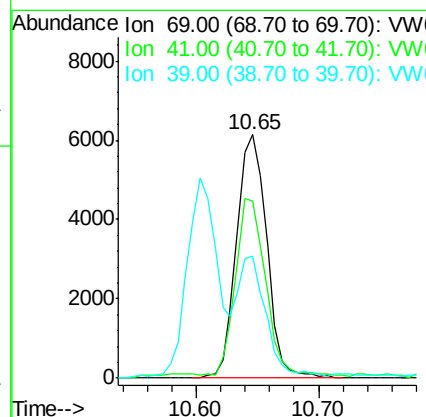
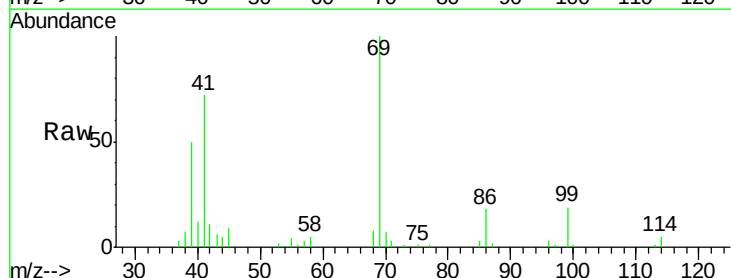
Manual Integrations
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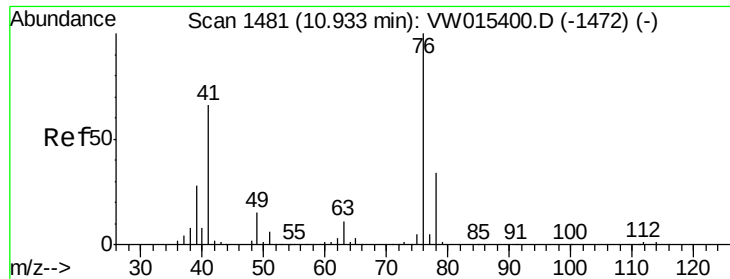
MMDadoda
 5/7/2020 10:35:00 AM



#56
 Ethyl methacrylate
 Concen: 4.747 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. -0.00 min
 Lab File: VW015411.D
 Acq: 06 May 2020 13:11

Tgt Ion:	69	Resp:	10487
Ion	Ratio	Lower	Upper
69	100		
41	73.6	55.3	82.9
39	45.8	31.9	47.9





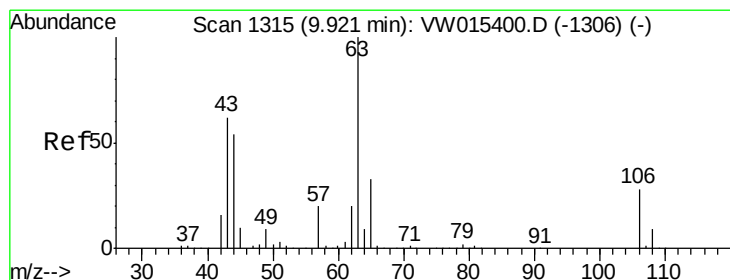
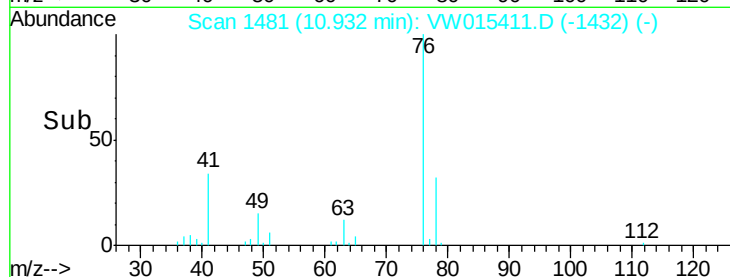
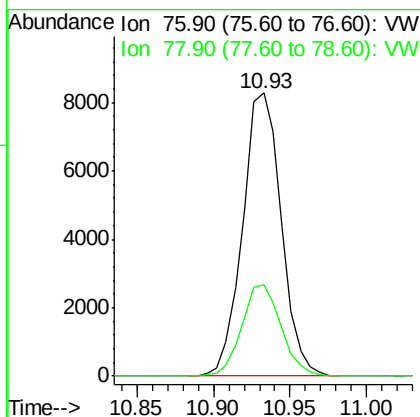
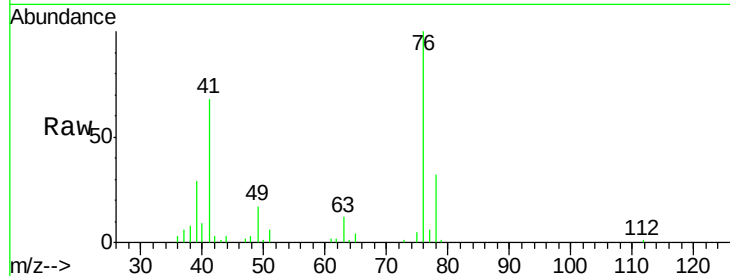
#57
 1,3-Dichloropropane
 Concen: 5.024 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. -0.00 min
 Lab File: VW015411.D
 Acq: 06 May 2020 13:11

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT2-2020

Tot Ion	Ratio	Lower	Upper
76	100		
78	33.0	26.3	39.5

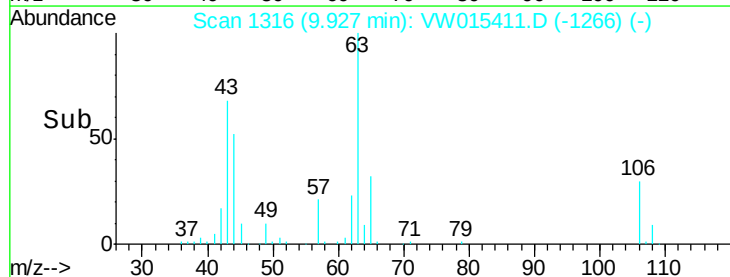
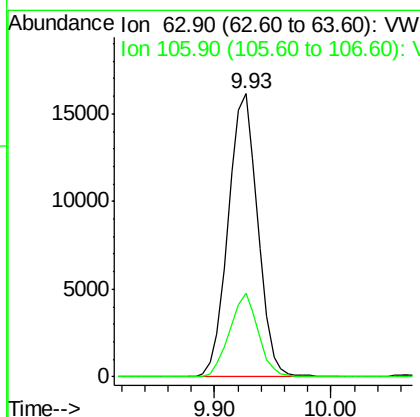
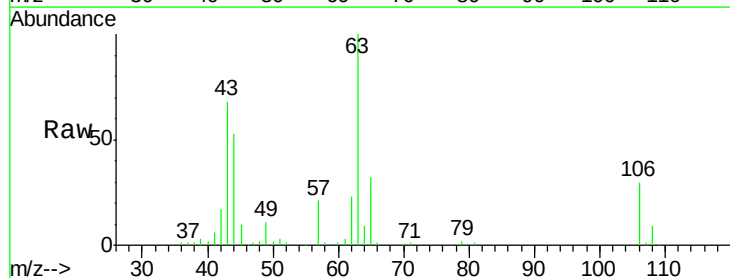
Manual Integrations
 APPROVED

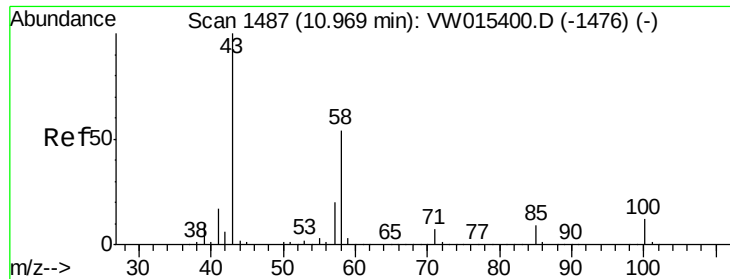
MMDadoda
 5/7/2020 10:35:00 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 26.569 ug/l
 RT: 9.93 min Scan# 1316
 Delta R.T. 0.01 min
 Lab File: VW015411.D
 Acq: 06 May 2020 13:11

Tgt Ion	Ratio	Lower	Upper
63	100		
106	28.3	22.6	33.8





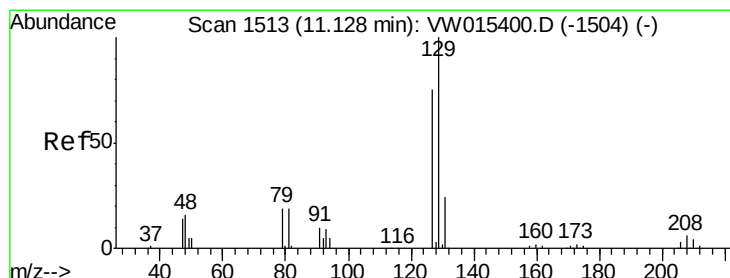
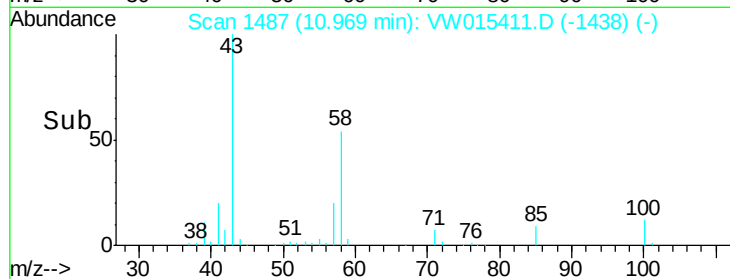
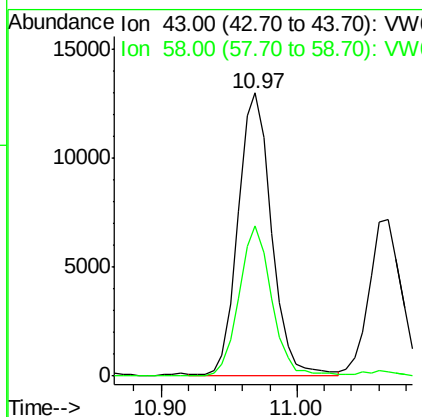
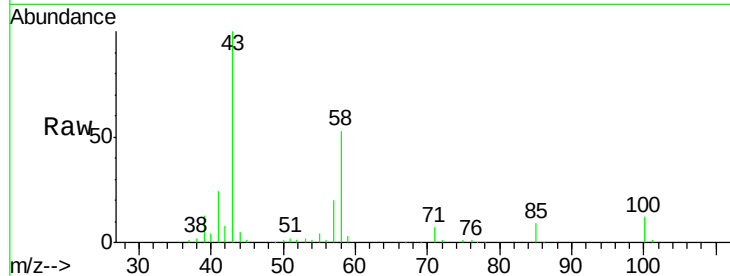
#59
2-Hexanone
Concen: 25.554 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2020

Tot Ion: 43 Resp: 22439
Ion Ratio Lower Upper
43 100
58 51.5 26.7 80.0

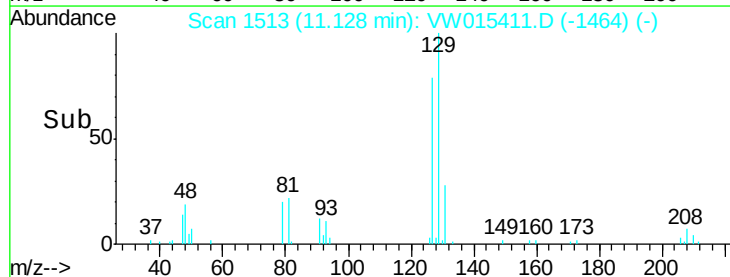
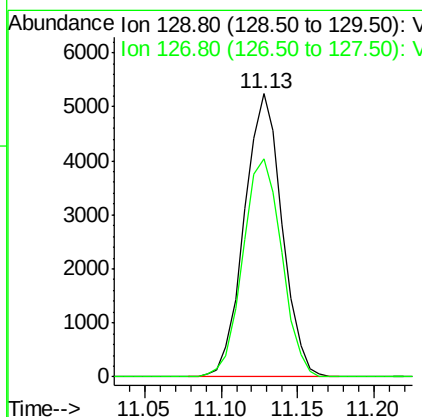
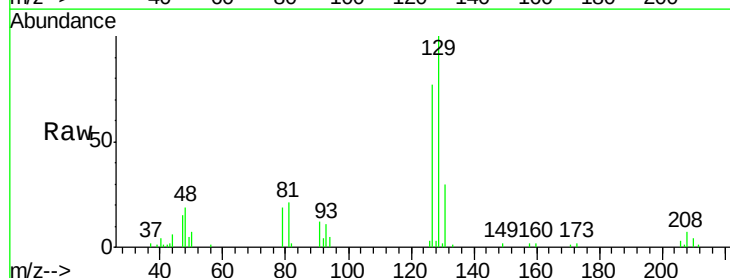
Manual Integrations
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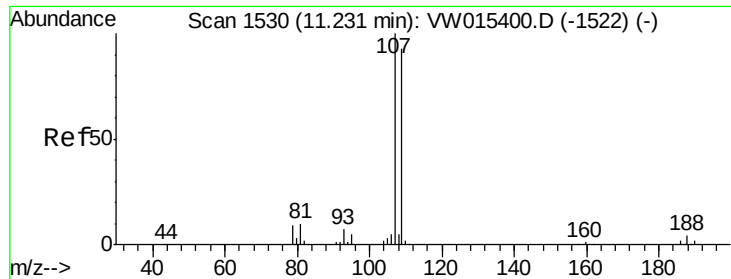
MMDadoda
5/7/2020 10:35:00 AM



#60
Dibromochloromethane
Concen: 4.654 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Tgt Ion: 129 Resp: 9001
Ion Ratio Lower Upper
129 100
127 79.2 39.1 117.2





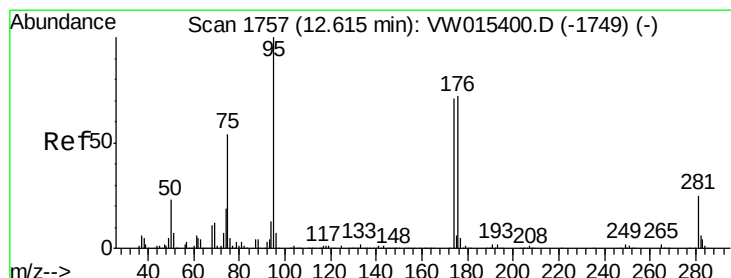
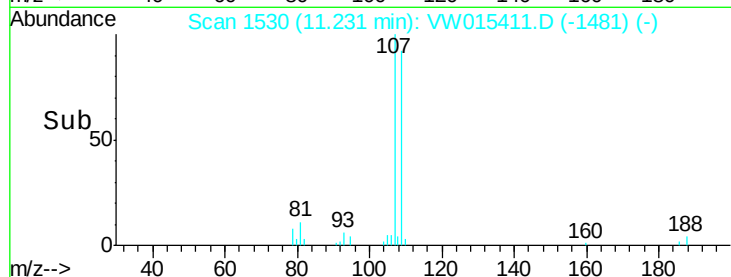
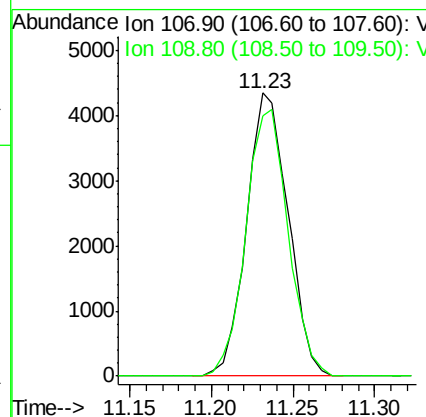
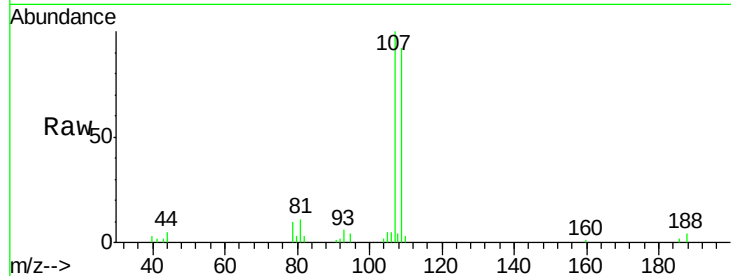
#61
 1,2-Dibromoethane
 Concen: 5.066 ug/l
 RT: 11.23 min Scan# 1530
 Delta R.T. -0.00 min
 Lab File: VW015411.D
 Acq: 06 May 2020 13:11

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT2-2020

Tot Ion	Ratio	Lower	Upper
107	100		
109	96.0	75.0	112.4

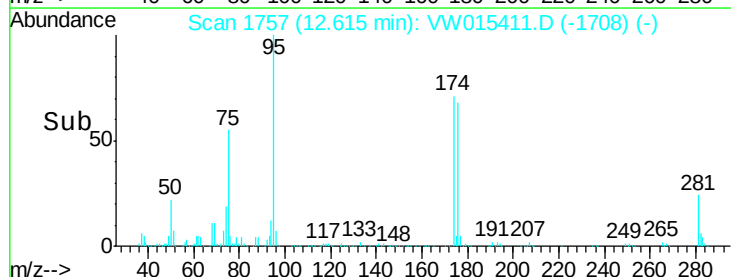
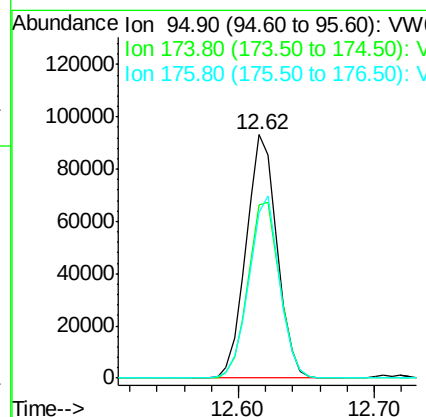
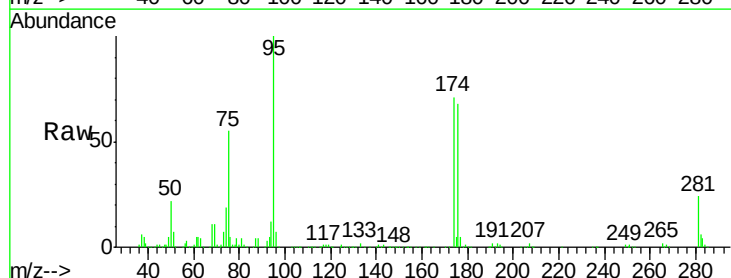
Manual Integrations
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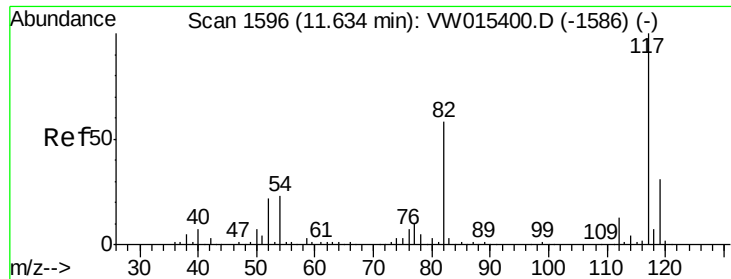
MMDadoda
 5/7/2020 10:35:00 AM



#62
 4-Bromofluorobenzene
 Concen: 48.818 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.00 min
 Lab File: VW015411.D
 Acq: 06 May 2020 13:11

Tgt Ion	Ratio	Lower	Upper
95	100		
174	74.8	0.0	147.6
176	73.9	0.0	144.4





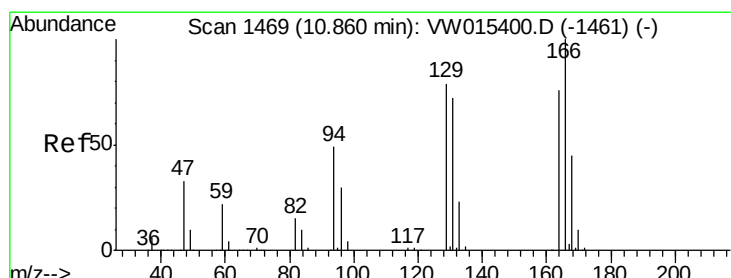
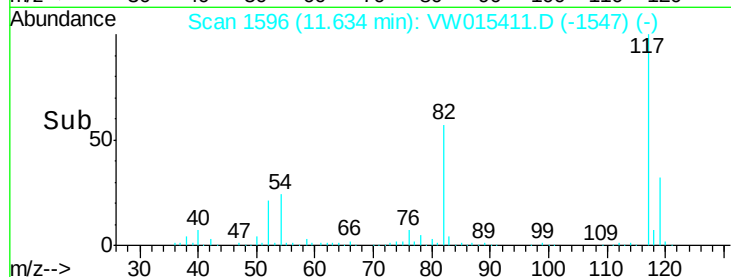
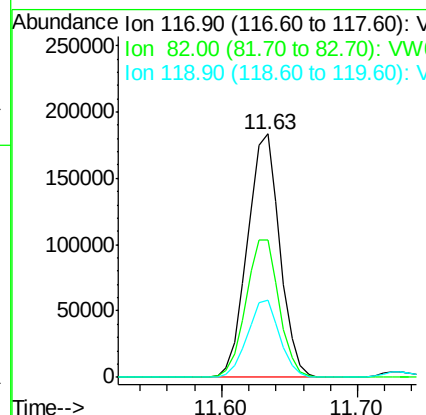
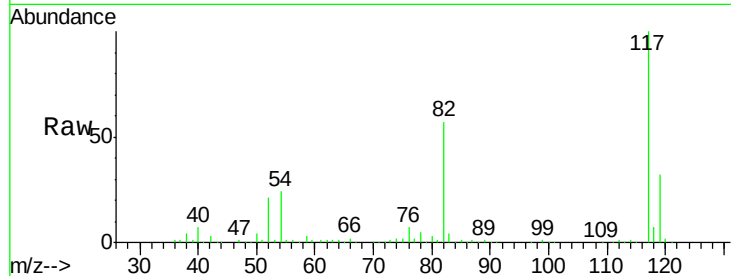
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2020

Tot Ion	Ratio	Resp	Lower	Upper
117	100	306238		
82	56.7		46.4	69.6
119	31.8		24.6	37.0

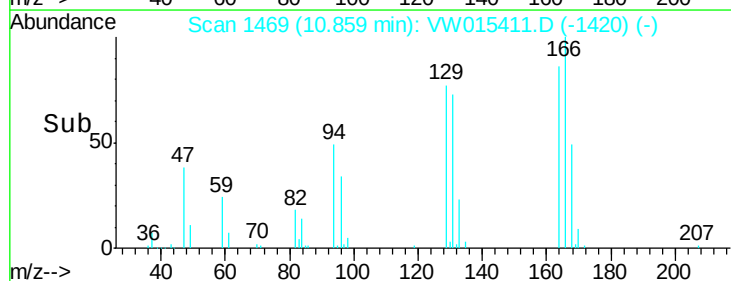
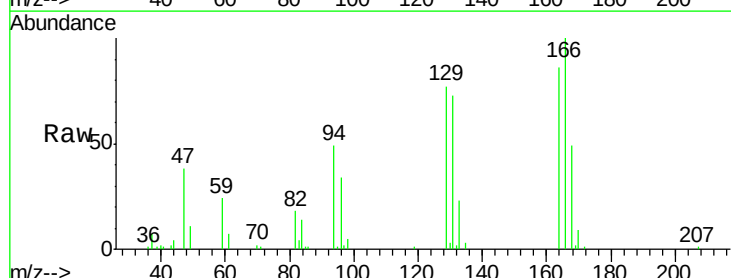
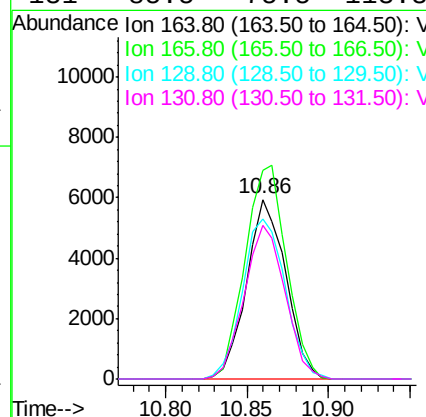
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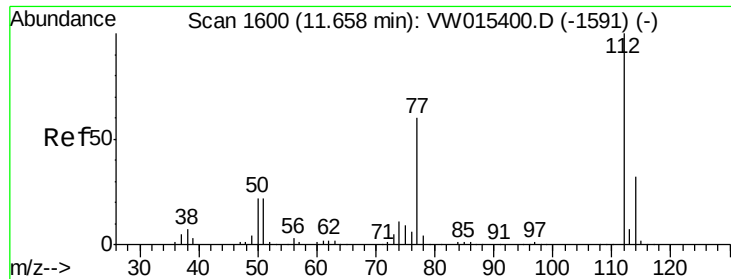
MMDadoda
5/7/2020 10:35:00 AM



#64
Tetrachloroethene
Concen: 5.320 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	9958		
166	116.3		104.9	157.3
129	89.5		82.7	124.1
131	85.5		75.5	113.3





#65

Chlorobenzene

Concen: 5.088 ug/l

RT: 11.66 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT2-2020

Tot Ion:112 Resp: 30723

Ion Ratio Lower Upper

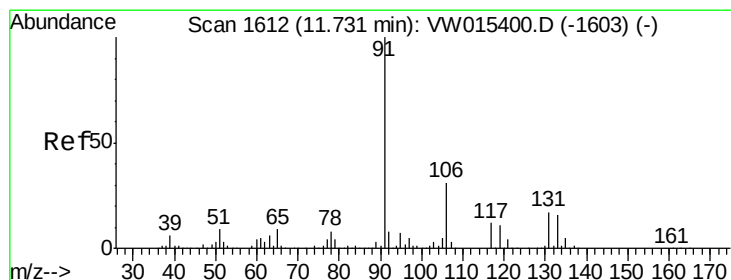
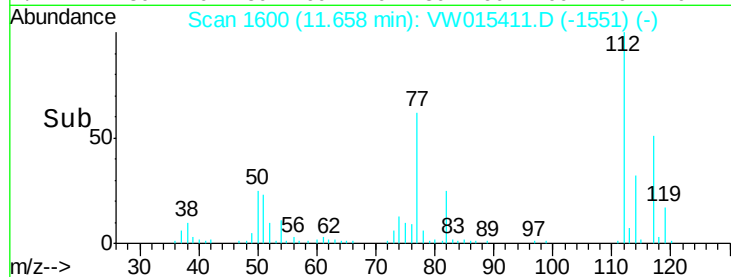
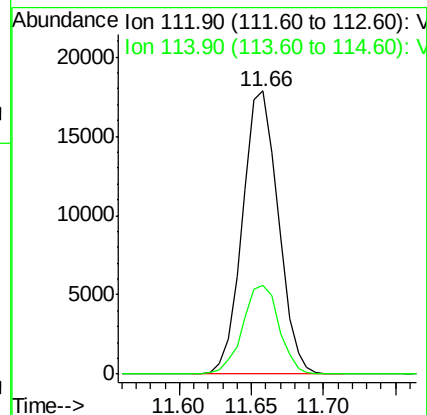
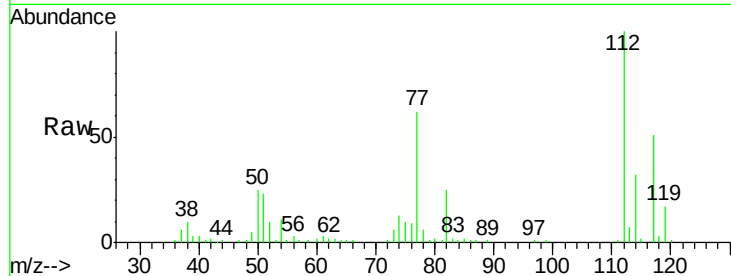
112 100

114 31.6 25.6 38.4

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#66

1,1,1,2-Tetrachloroethane

Concen: 4.931 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

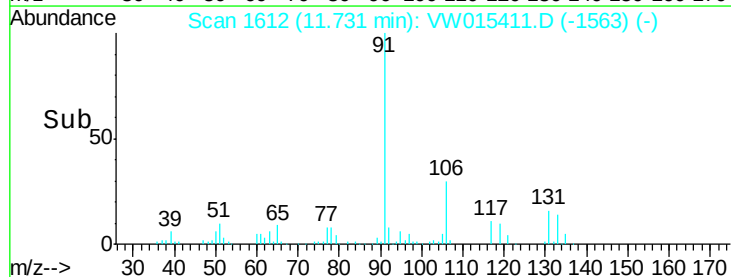
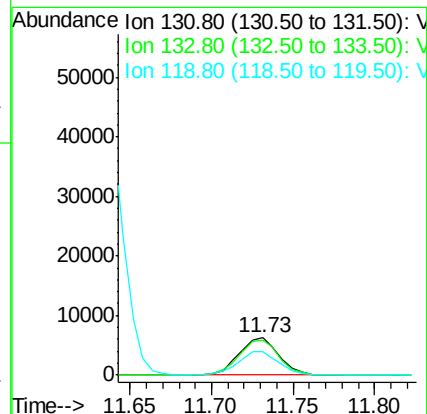
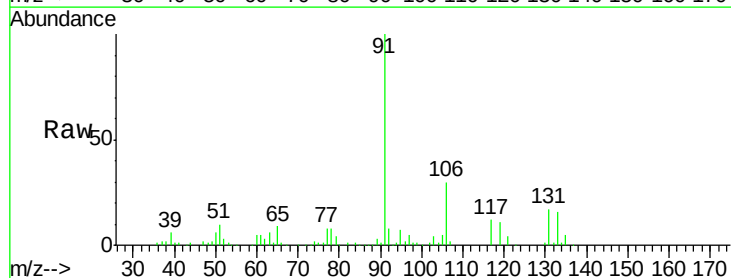
Tgt Ion:131 Resp: 10556

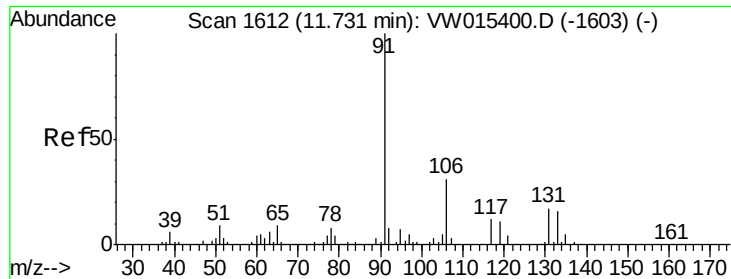
Ion Ratio Lower Upper

131 100

133 95.1 47.9 143.8

119 64.9 33.0 99.0





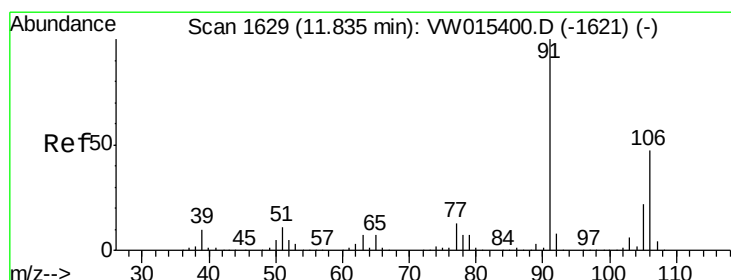
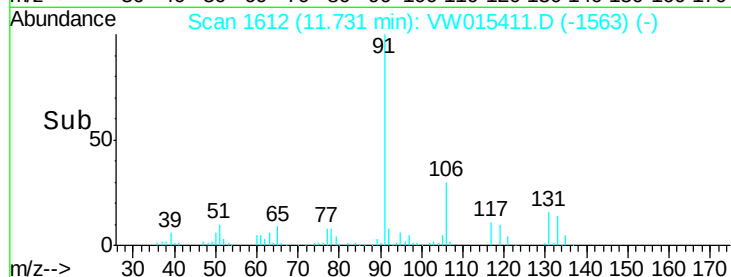
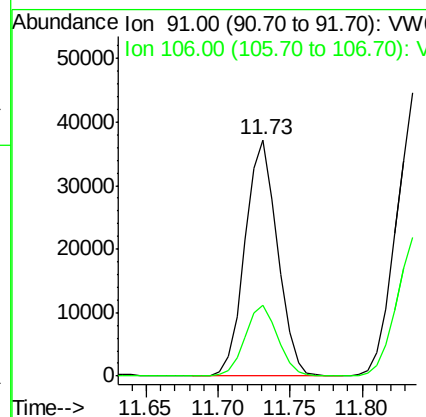
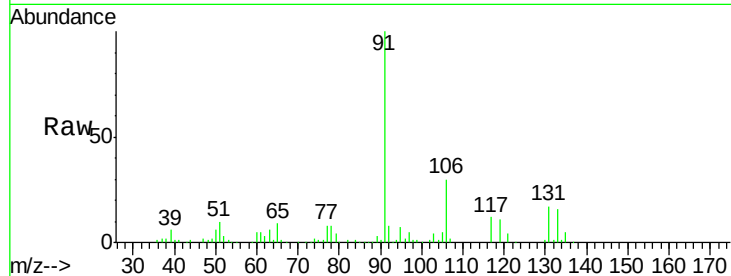
#67
Ethyl Benzene
Concen: 5.029 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2020

Tot Ion: 91 Resp: 58123
Ion Ratio Lower Upper
91 100
106 29.9 25.2 37.8

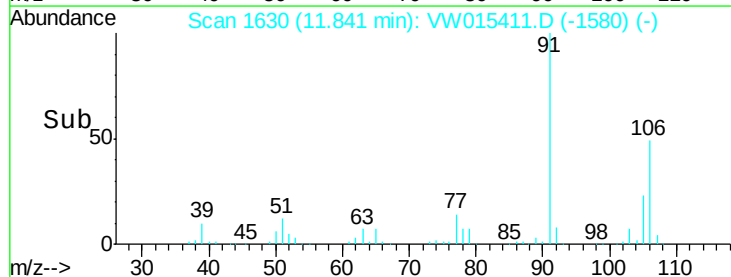
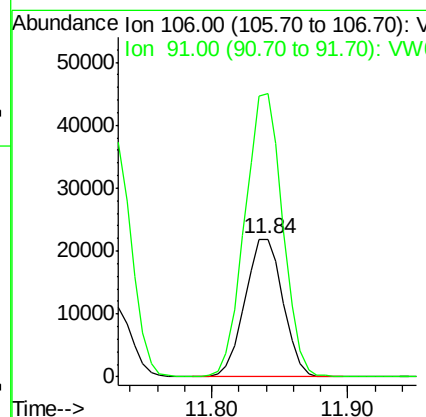
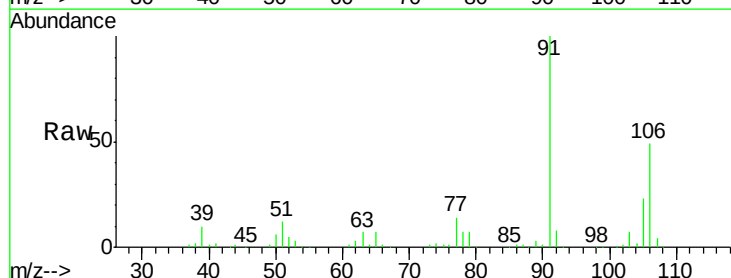
Manual Integrations
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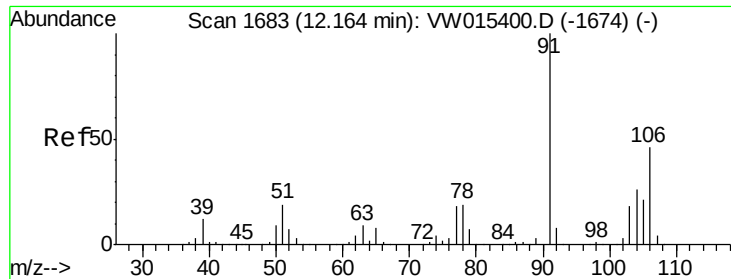
MMDadoda
5/7/2020 10:35:00 AM



#68
m/p-Xylenes
Concen: 9.953 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.01 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Tgt Ion: 106 Resp: 42766
Ion Ratio Lower Upper
106 100
91 204.9 165.7 248.5





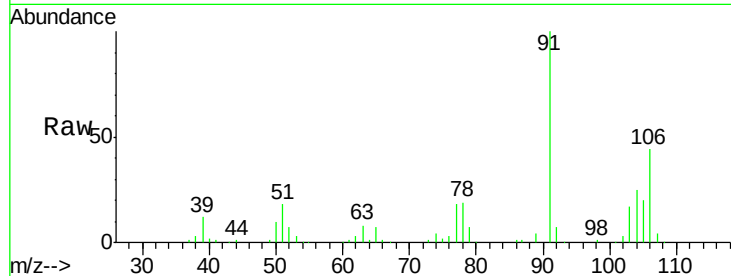
#69
o-Xylene
Concen: 4.894 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2020

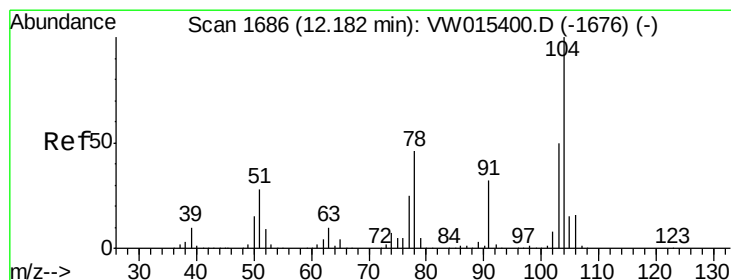
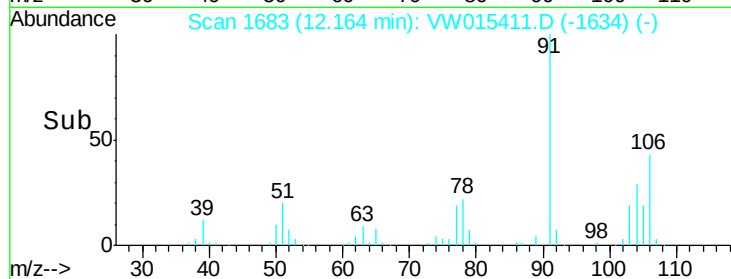
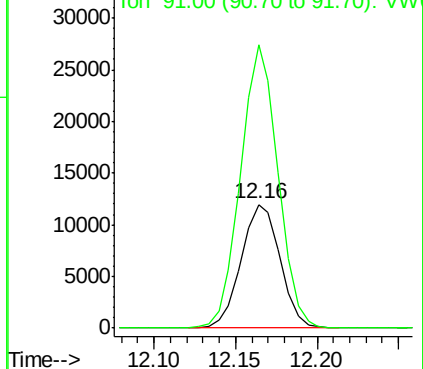
Tot Ion:106 Resp: 19759
Ion Ratio Lower Upper
106 100
91 221.3 109.0 327.0

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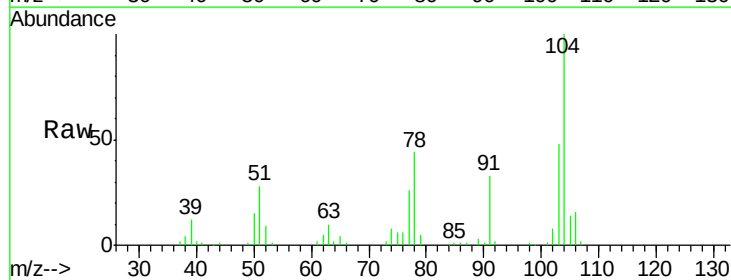


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV

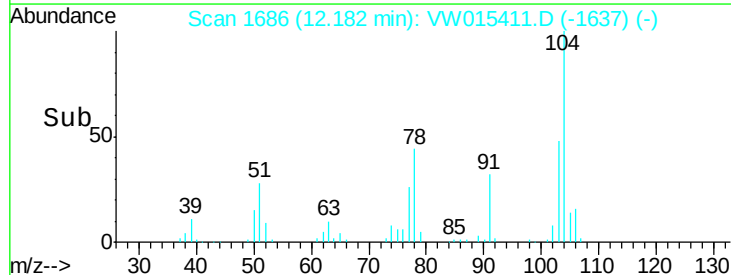
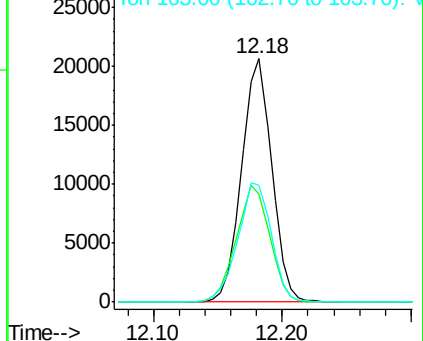


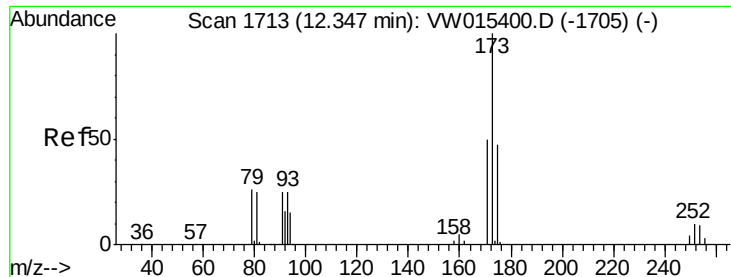
#70
Styrene
Concen: 4.813 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Tgt Ion:104 Resp: 33467
Ion Ratio Lower Upper
104 100
78 53.3 41.8 62.8
103 54.6 43.6 65.4



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 4.714 ug/l

RT: 12.35 min Scan# 1714

Delta R.T. 0.01 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

Instrument :

MSVOA_W

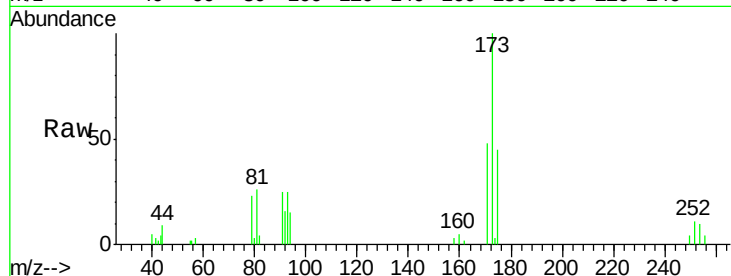
ClientSampleId :

LOQ-SOIL-02-QT2-2020

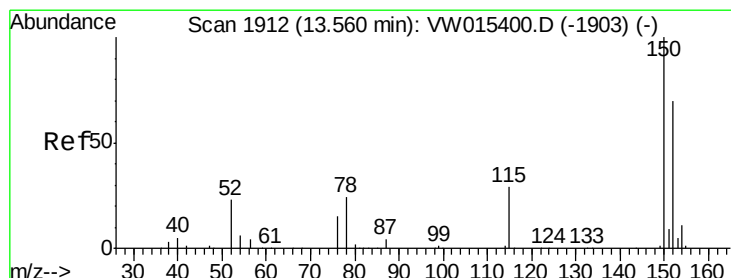
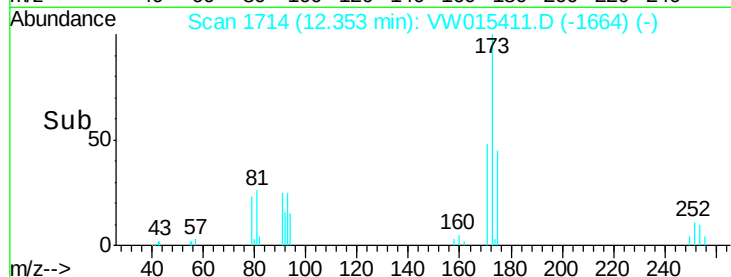
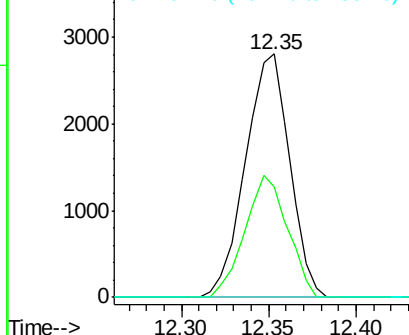
Tot Ion:	173	Resp:	4921
Ion Ratio	Lower	Upper	
173	100		
175	48.5	23.8	71.4
254	0.0	0.0	0.0

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

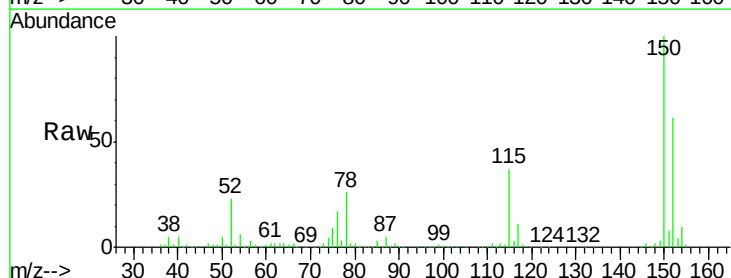
RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

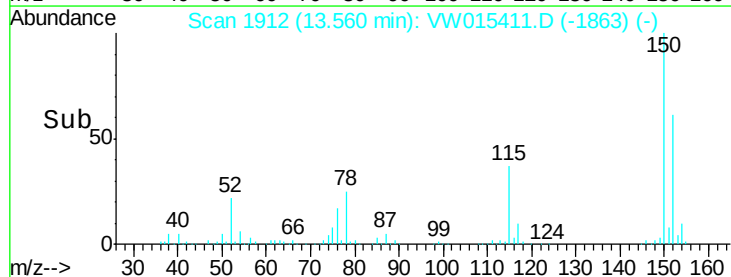
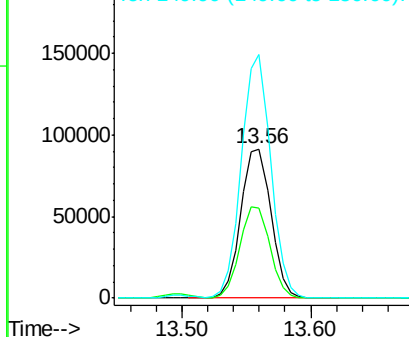
Lab File: VW015411.D

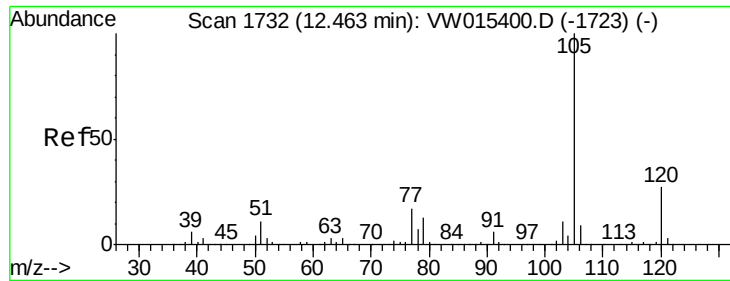
Acq: 06 May 2020 13:11

Tgt Ion:	152	Resp:	147966
Ion Ratio	Lower	Upper	
152	100		
115	61.4	30.3	90.8
150	159.5	0.0	344.4



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





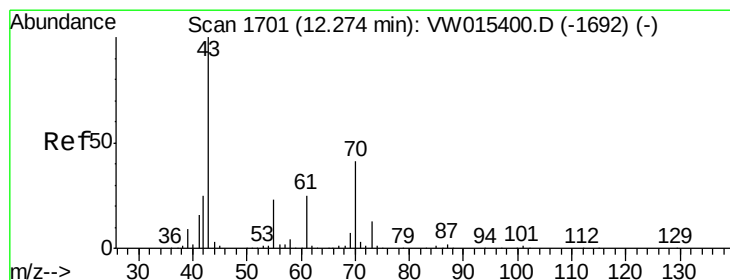
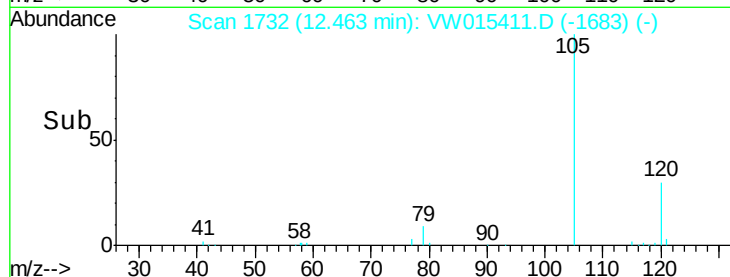
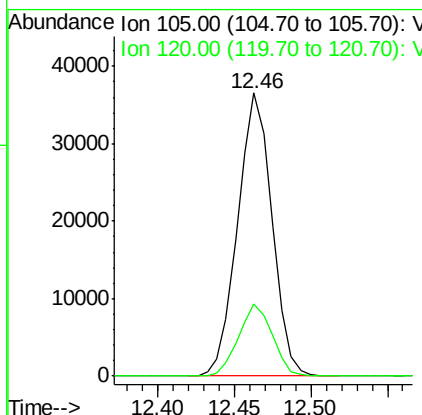
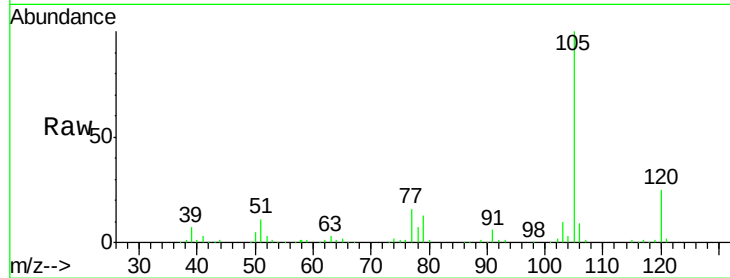
#73
Isopropylbenzene
Concen: 5.143 ug/l
RT: 12.46 min Scan# 1732
Delta R.T. -0.00 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2020

Tot Ion	Ratio	Resp	Lower	Upper
105	100	56812		
120	25.1		13.1	39.3

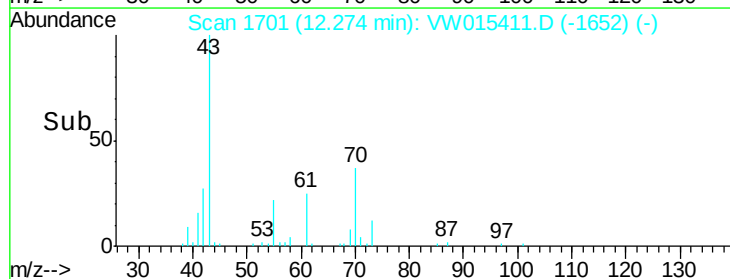
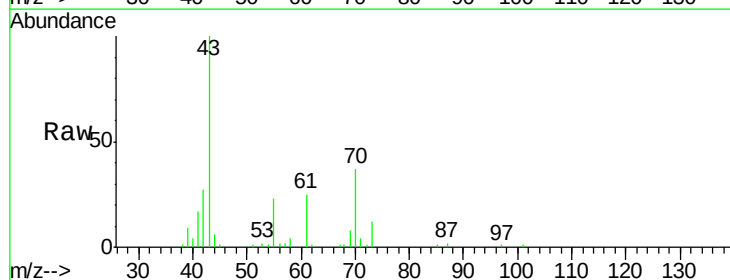
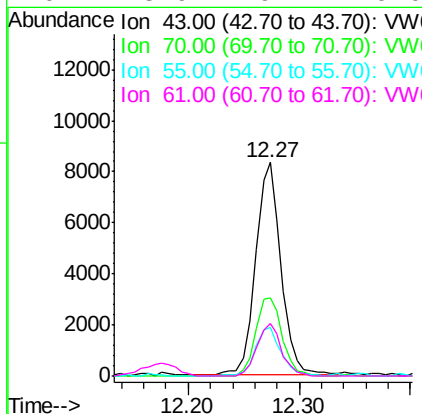
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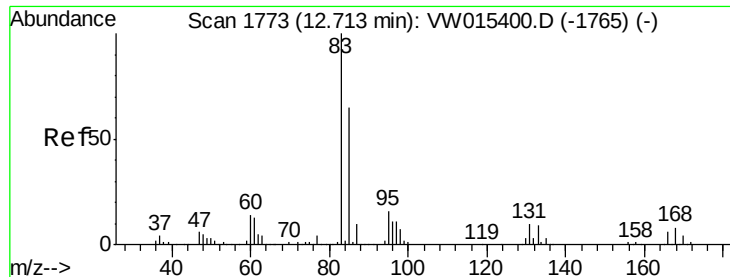
MMDadoda
5/7/2020 10:35:00 AM



#74
N-ethyl acetate
Concen: 5.026 ug/l
RT: 12.27 min Scan# 1701
Delta R.T. -0.00 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	13125		
70	38.5		33.4	50.0
55	23.7		18.9	28.3
61	23.9		19.4	29.0





#75

1,1,2,2-Tetrachloroethane

Concen: 5.161 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

Instrument :

MSVOA_W

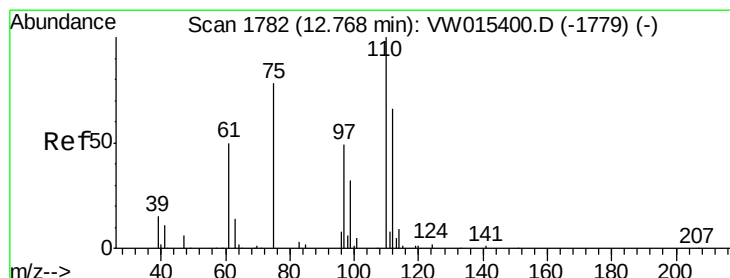
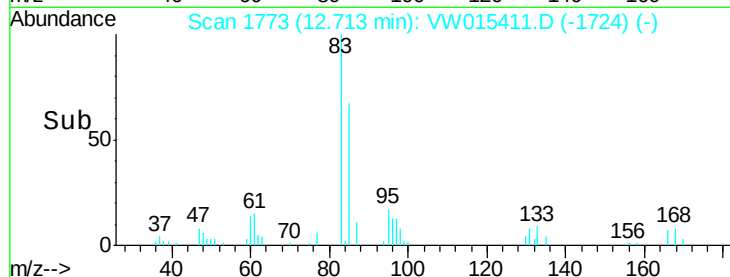
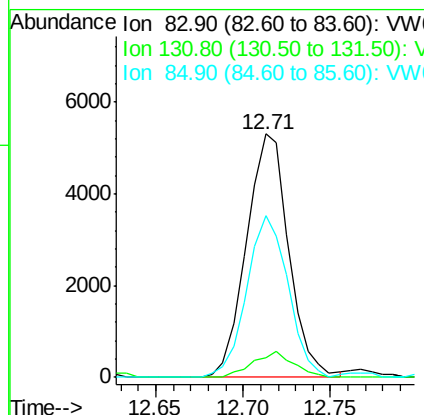
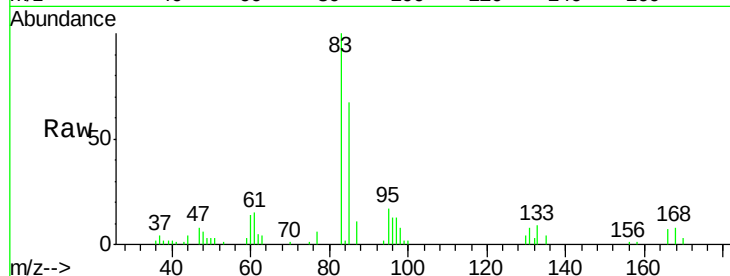
ClientSampleId :

LOQ-SOIL-02-QT2-2020

Tot Ion:	83	Resp:	8919
Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.1	15.2
85	64.8	32.2	96.6

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 5.024 ug/l m

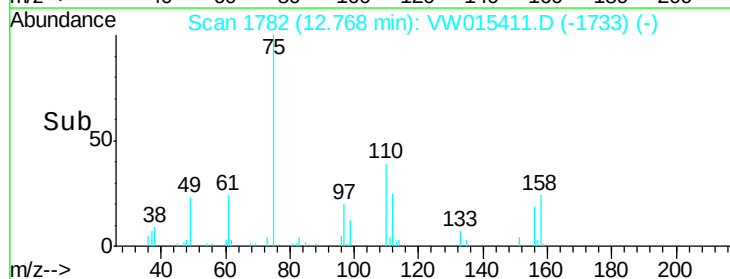
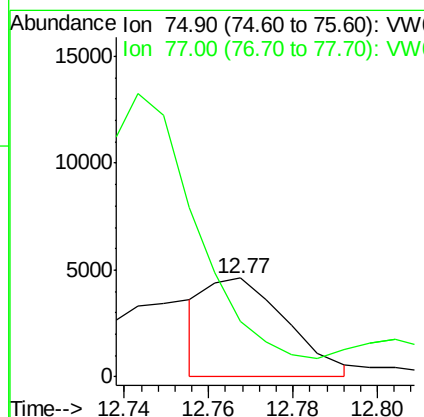
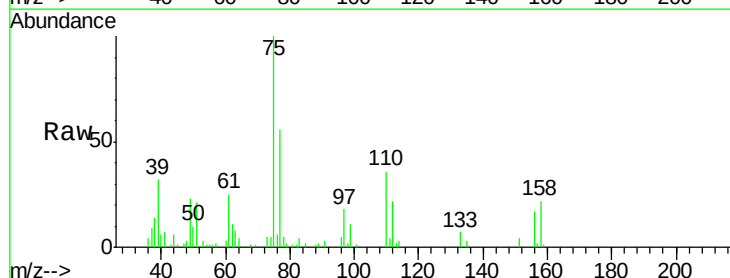
RT: 12.77 min Scan# 1782

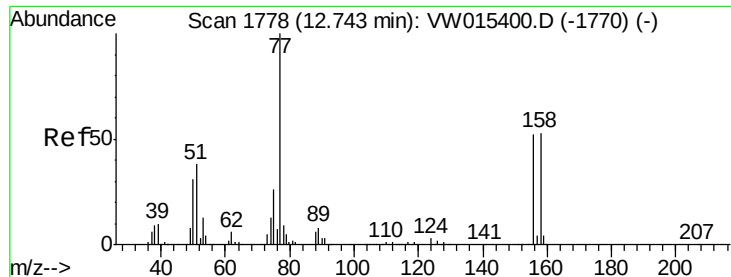
Delta R.T. -0.00 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

Tgt Ion:	75	Resp:	6115
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 5.066 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. -0.00 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT2-2020

Tot Ion:156 Resp: 11859

Ion Ratio Lower Upper

156 100

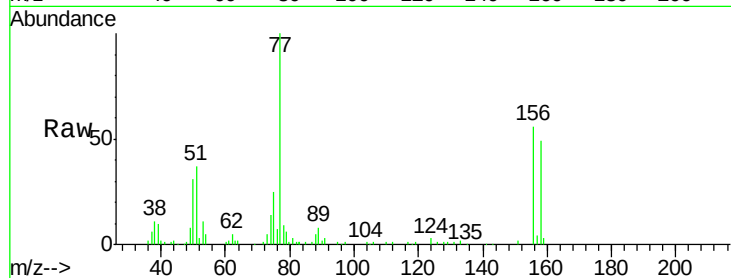
77 203.6 101.8 305.6

158 97.8 48.3 144.8

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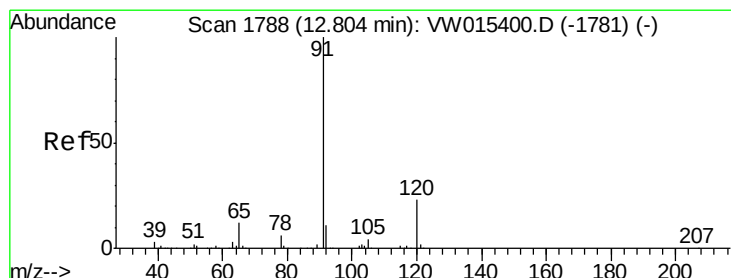
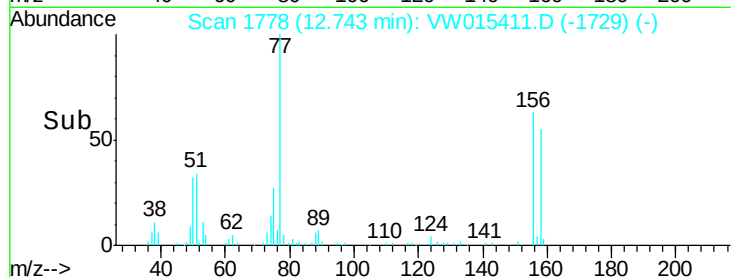
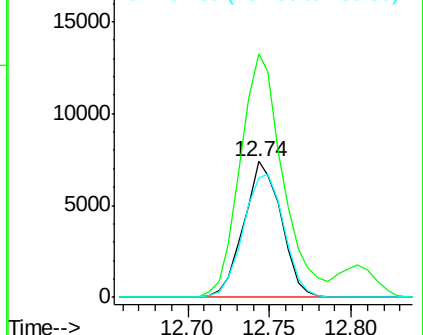
5/7/2020 10:35:00 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 5.077 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW015411.D

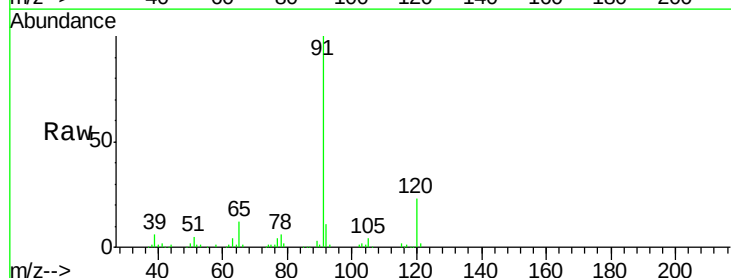
Acq: 06 May 2020 13:11

Tgt Ion: 91 Resp: 67282

Ion Ratio Lower Upper

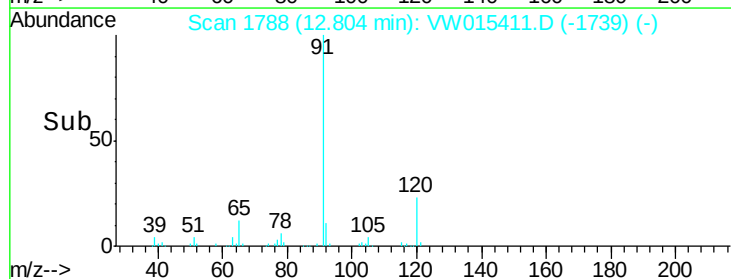
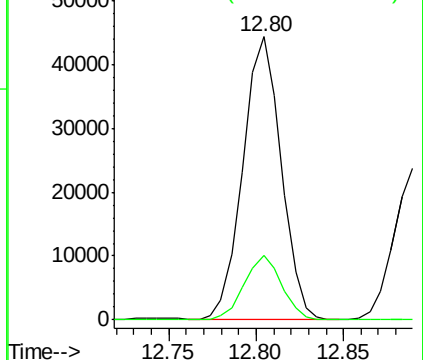
91 100

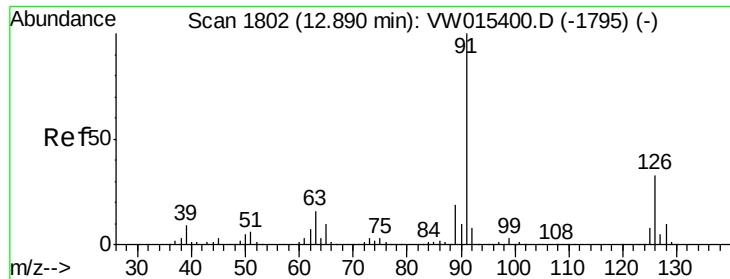
120 22.3 11.2 33.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





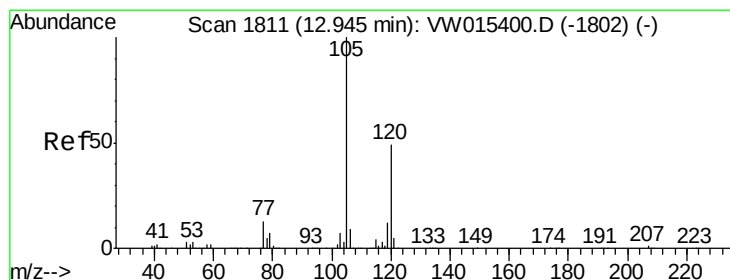
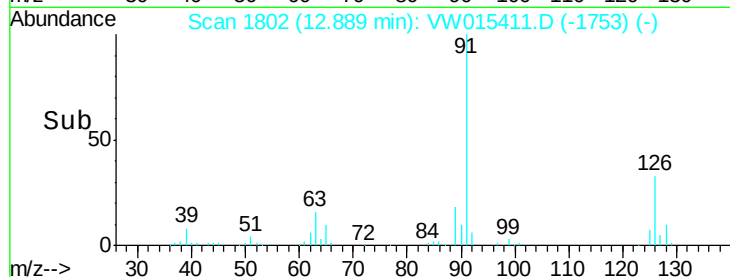
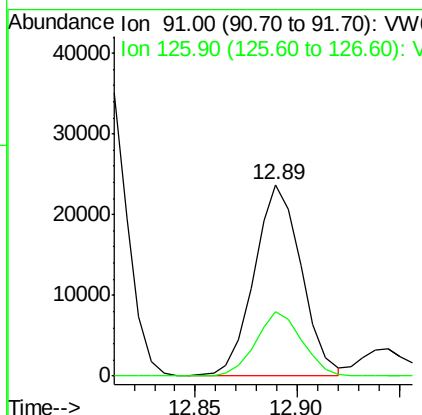
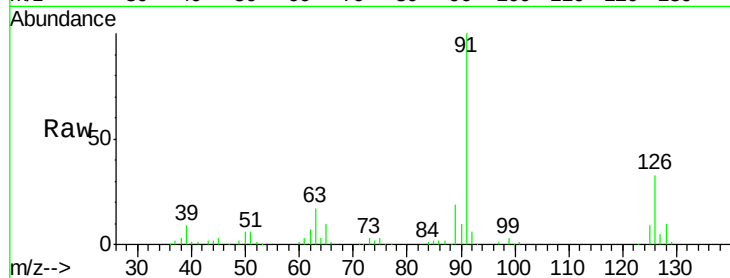
#79
2-Chlorotoluene
Concen: 5.067 ug/l
RT: 12.89 min Scan# 1802
Delta R.T. -0.00 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2020

Tot Ion: 91 Resp: 37857
Ion Ratio Lower Upper
91 100
126 33.0 16.1 48.2

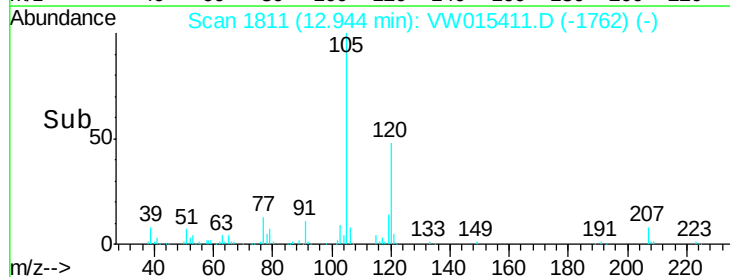
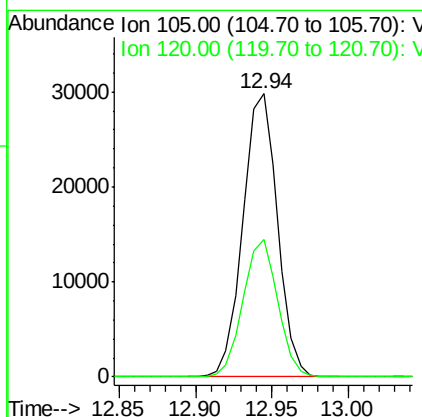
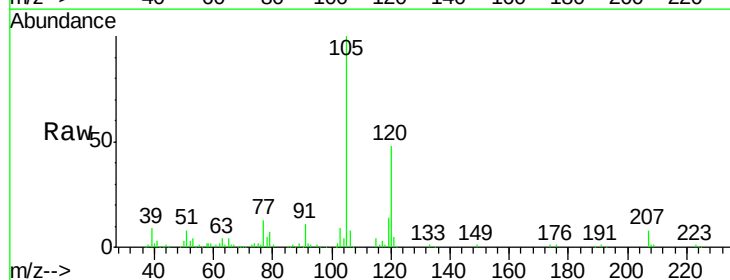
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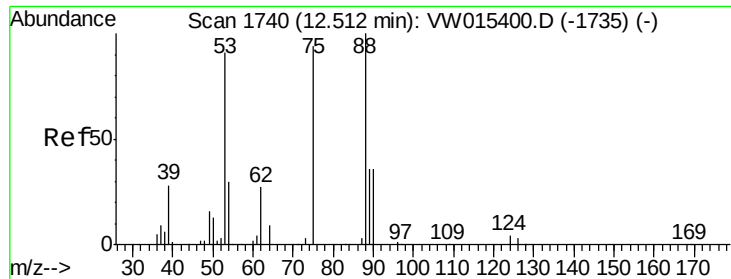
MMDadoda
5/7/2020 10:35:00 AM



#80
1,3,5-Trimethylbenzene
Concen: 5.030 ug/l
RT: 12.94 min Scan# 1811
Delta R.T. -0.00 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Tgt Ion: 105 Resp: 46799
Ion Ratio Lower Upper
105 100
120 48.5 24.2 72.6





#81

trans-1,4-Dichloro-2-butene

Concen: 4.472 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. -0.00 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

Instrument :

MSVOA_W

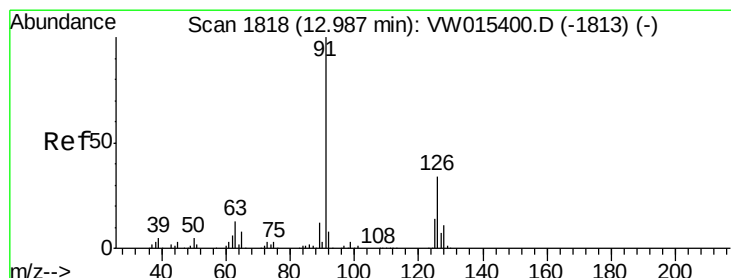
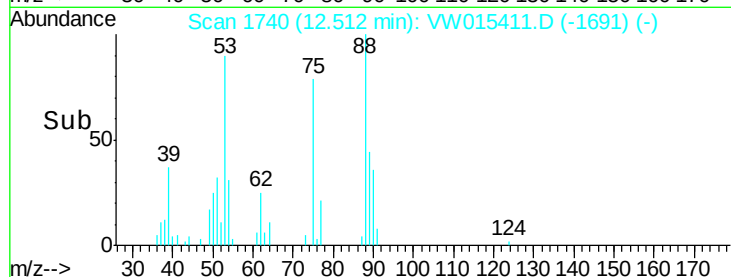
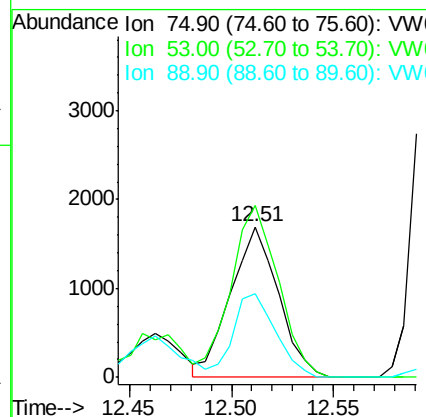
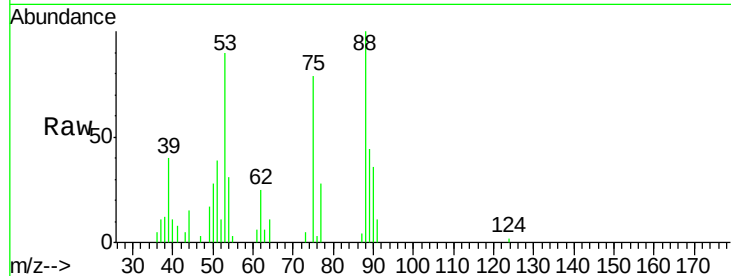
ClientSampleId :

LOQ-SOIL-02-QT2-2020

Tot Ion:	75	Resp:	2752
Ion	Ratio	Lower	Upper
75	100		
53	113.6	82.5	123.7
89	49.6	35.8	53.8

Manual Integrations
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#82

4-Chlorotoluene

Concen: 5.097 ug/l

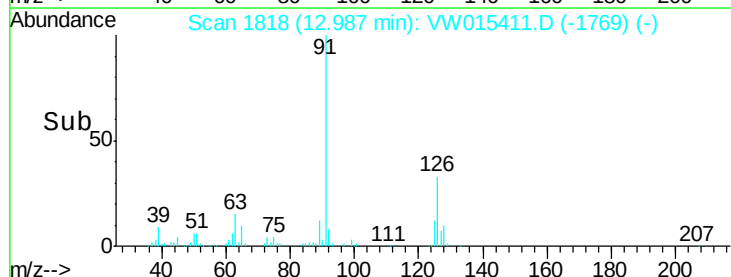
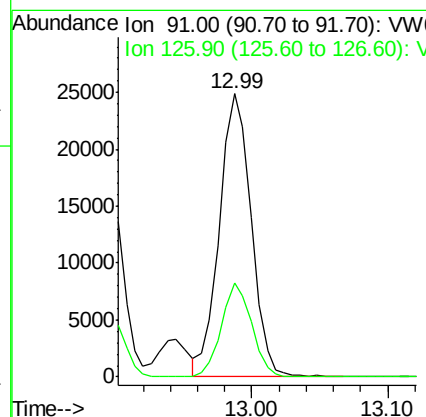
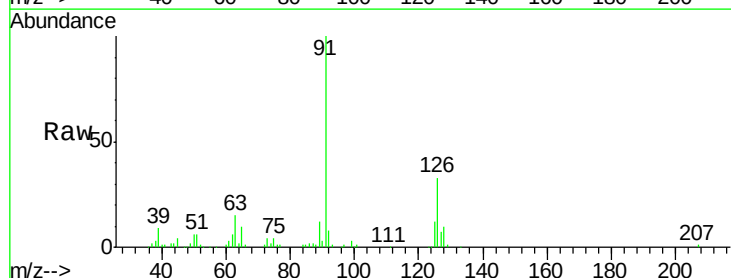
RT: 12.99 min Scan# 1818

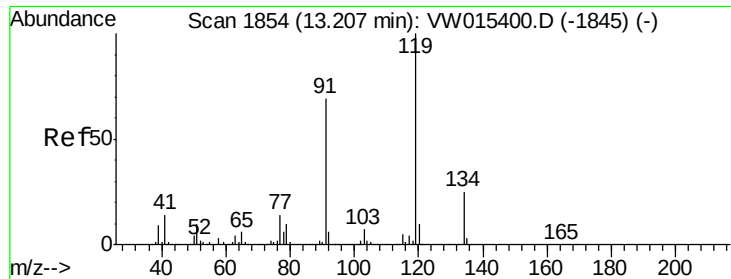
Delta R.T. -0.00 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

Tgt Ion:	91	Resp:	40359
Ion	Ratio	Lower	Upper
91	100		
126	31.6	16.0	47.9





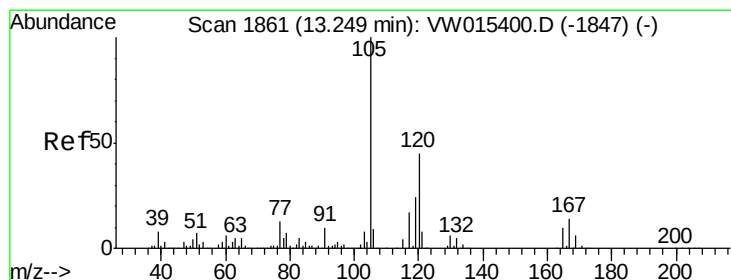
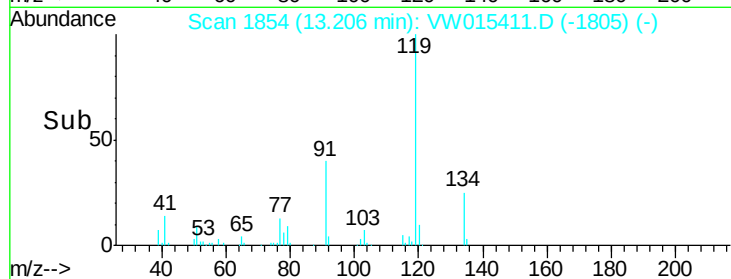
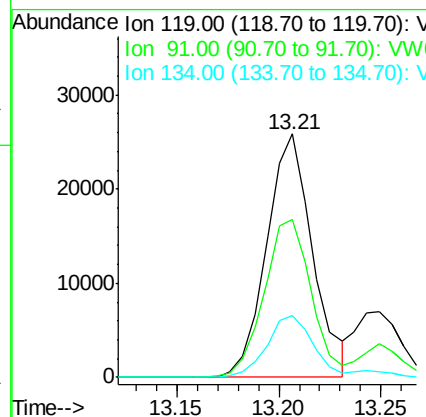
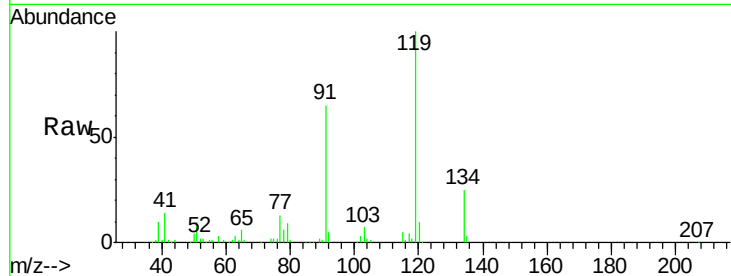
#83
tert-Butylbenzene
Concen: 5.112 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. -0.00 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2020

Tot Ion	Ratio	Lower	Upper
119	100		
91	66.6	33.8	101.4
134	25.7	12.3	36.9

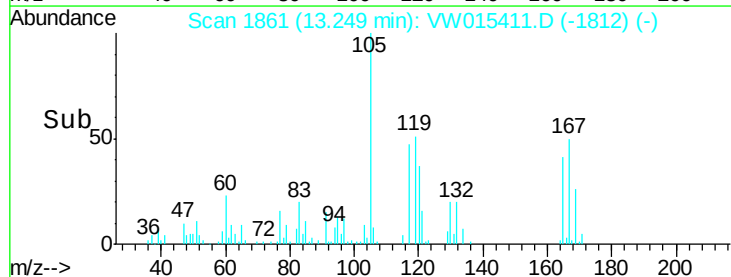
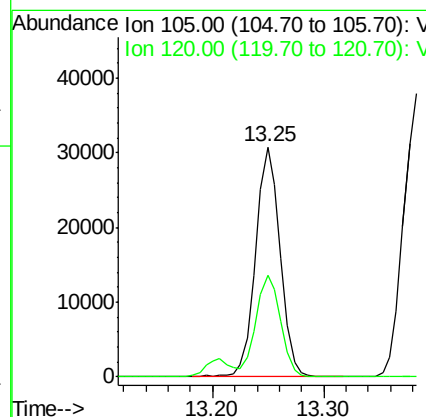
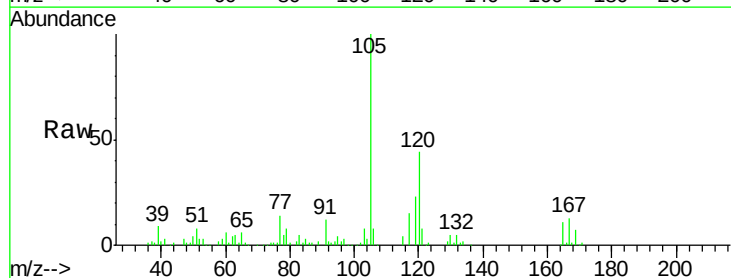
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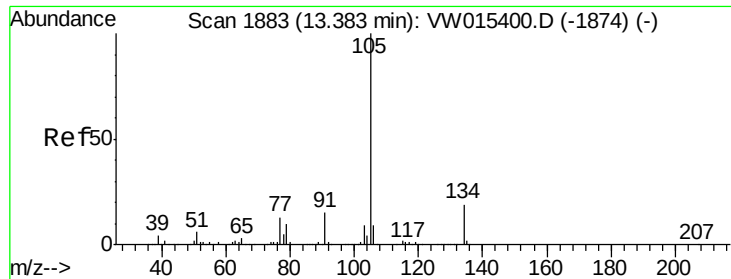
MMDadoda
5/7/2020 10:35:00 AM



#84
1,2,4-Trimethylbenzene
Concen: 5.078 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. -0.00 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.0	66.0





#85

sec-Butylbenzene

Concen: 5.040 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. -0.00 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT2-2020

Tot Ion:105 Resp: 56383

Ion Ratio Lower Upper

105 100

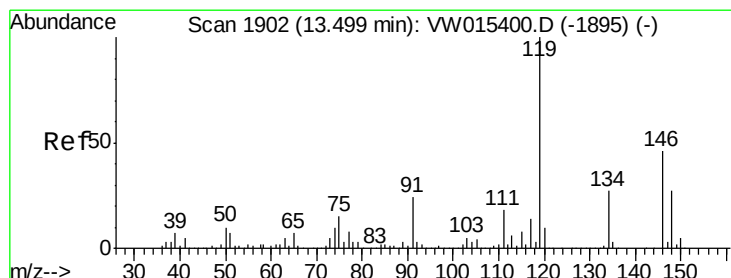
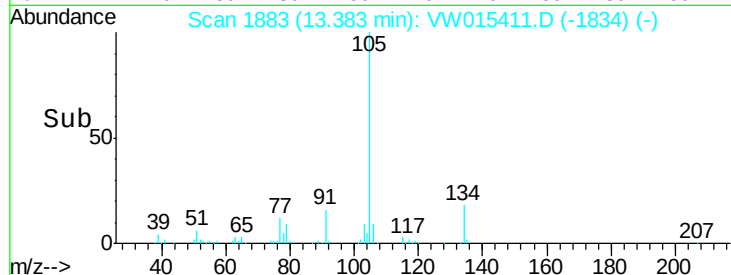
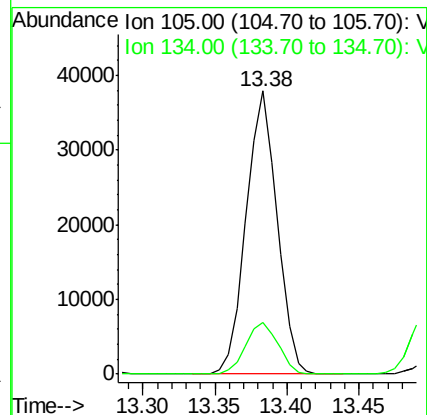
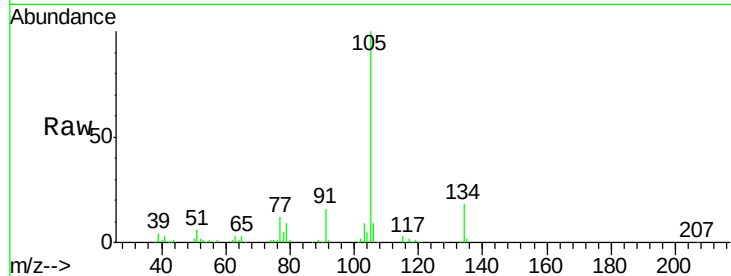
134 19.2 9.8 29.5

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#86

p-Isopropyltoluene

Concen: 5.056 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

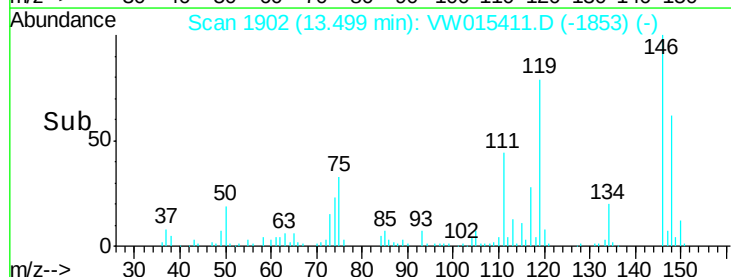
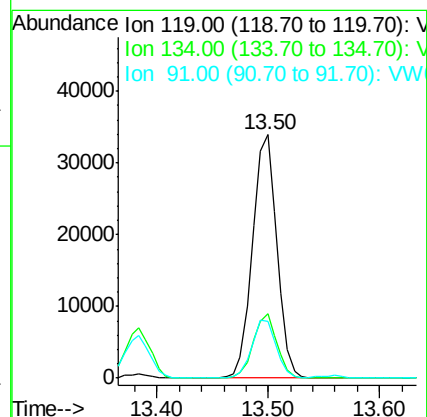
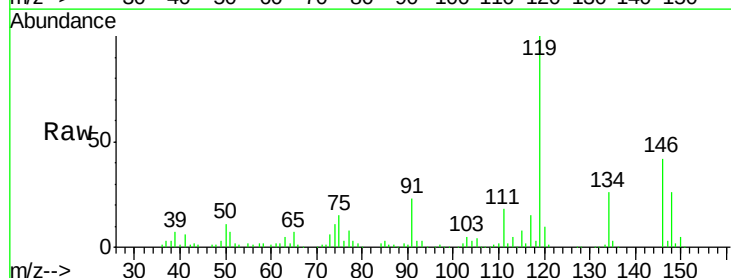
Tgt Ion:119 Resp: 51589

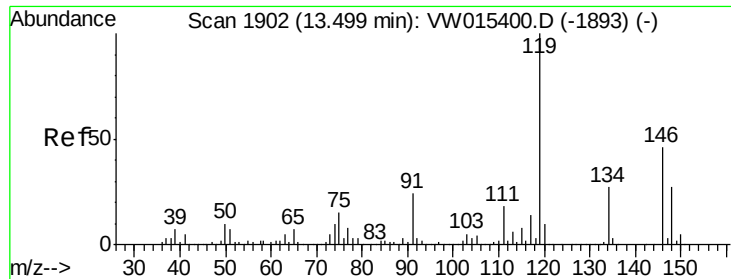
Ion Ratio Lower Upper

119 100

134 25.5 12.8 38.4

91 23.9 12.1 36.3





#87

1,3-Dichlorobenzene

Concen: 4.957 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

Instrument :

MSVOA_W

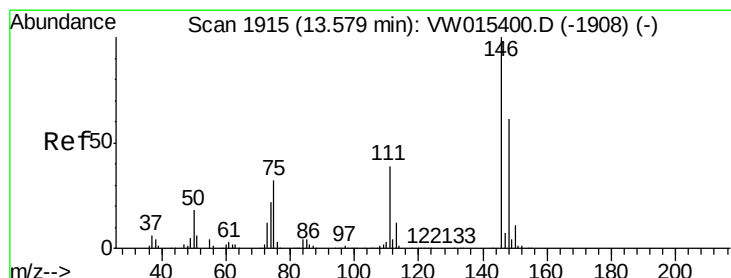
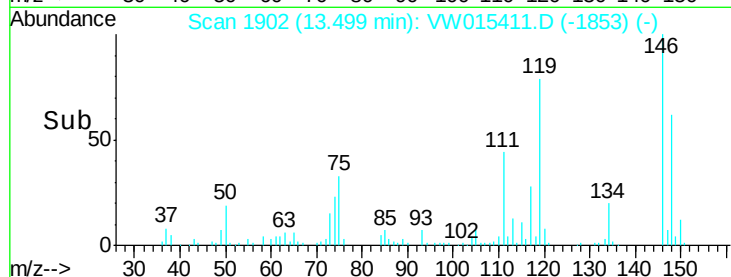
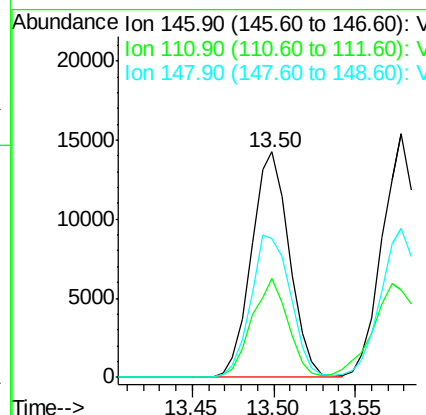
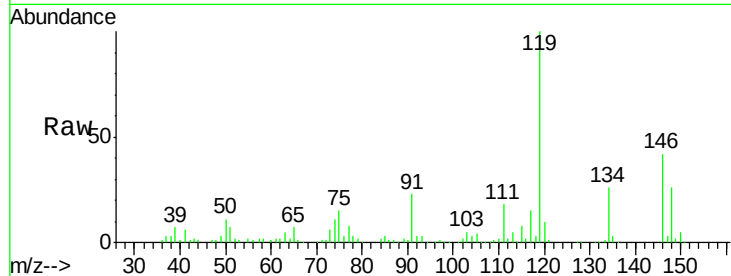
ClientSampleId :

LOQ-SOIL-02-QT2-2020

Tot Ion:	146	Resp:	23117
Ion Ratio	Lower	Upper	
146	100		
111	41.8	20.5	61.5
148	65.9	31.4	94.0

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#88

1,4-Dichlorobenzene

Concen: 5.109 ug/l

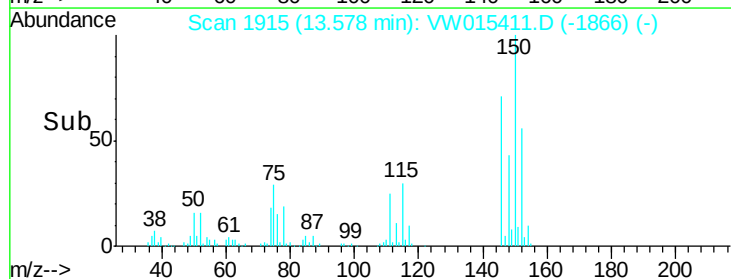
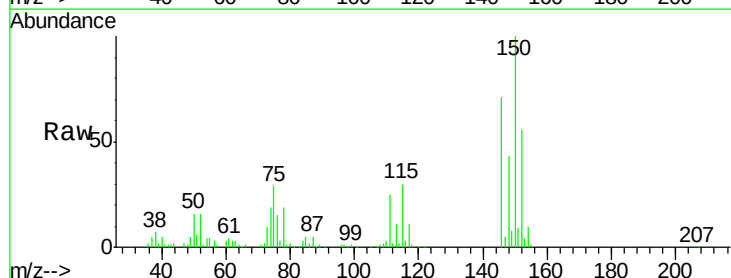
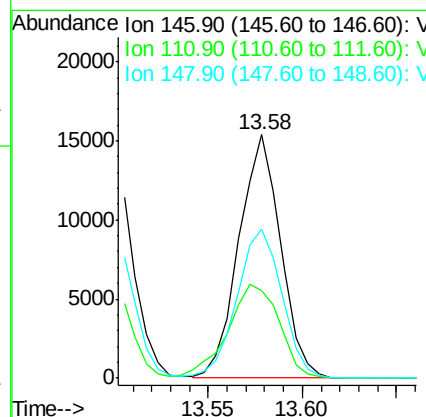
RT: 13.58 min Scan# 1915

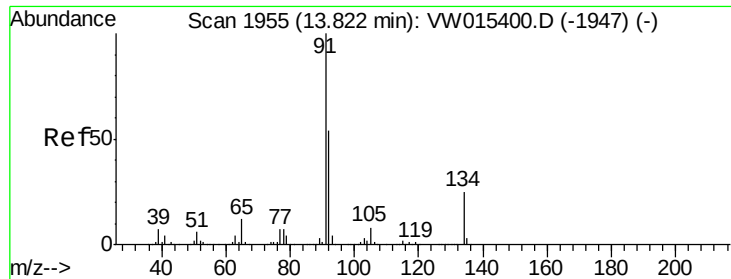
Delta R.T. -0.00 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

Tgt Ion:	146	Resp:	23593
Ion Ratio	Lower	Upper	
146	100		
111	47.7	20.0	60.0
148	66.1	31.4	94.3





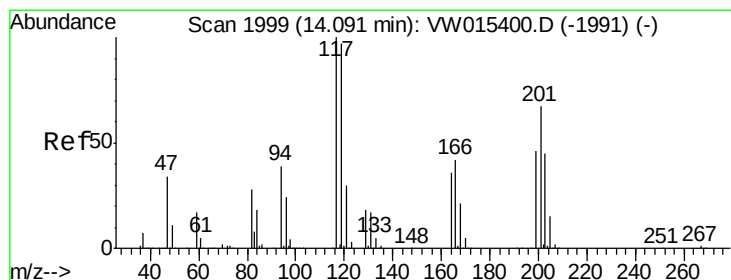
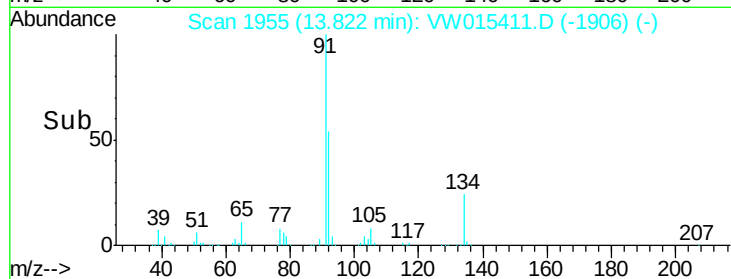
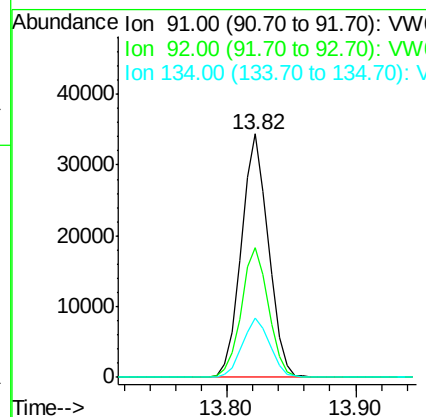
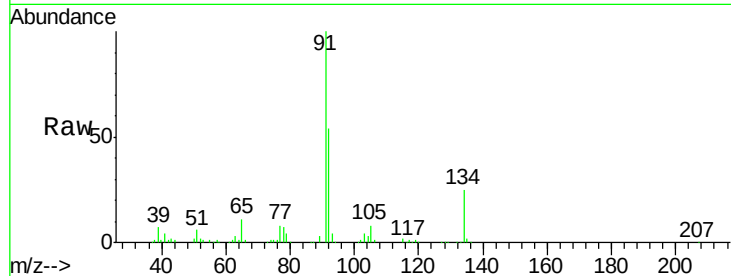
#89
n-Butylbenzene
Concen: 5.003 ug/l
RT: 13.82 min Scan# 1955
Delta R.T. -0.00 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT2-2020

Tot Ion	Ratio	Resp	Lower	Upper
91	100	49968		
92	53.5		27.2	81.6
134	24.7		12.6	37.6

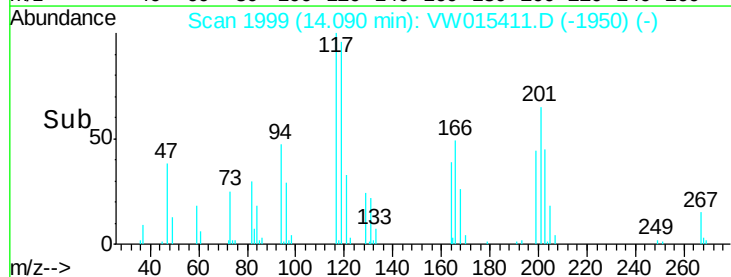
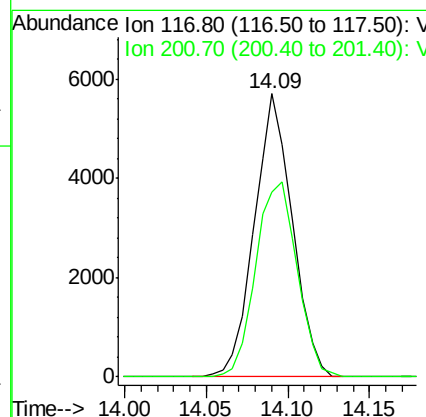
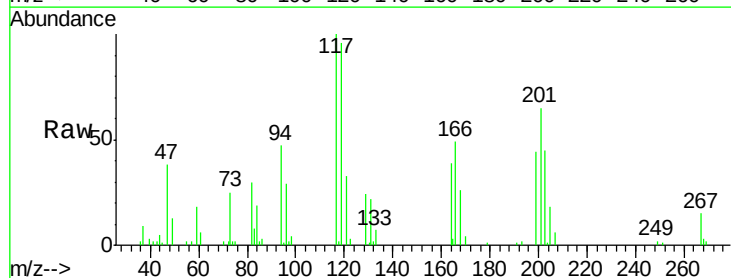
Manual Integrations
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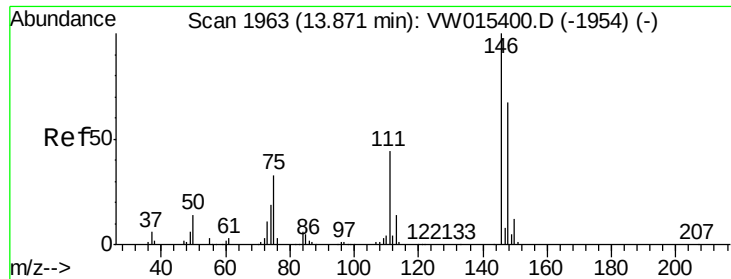
MMDadoda
5/7/2020 10:35:00 AM



#90
Hexachloroethane
Concen: 4.896 ug/l
RT: 14.09 min Scan# 1999
Delta R.T. -0.00 min
Lab File: VW015411.D
Acq: 06 May 2020 13:11

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	9206		
201	74.8		35.9	107.8





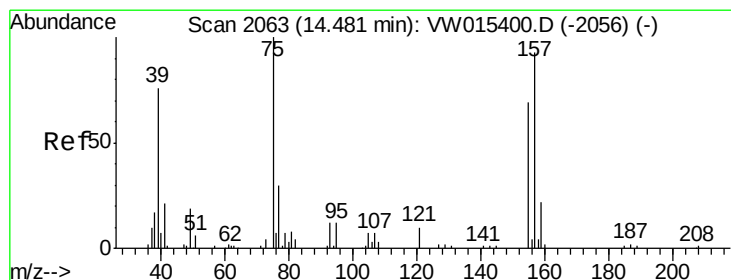
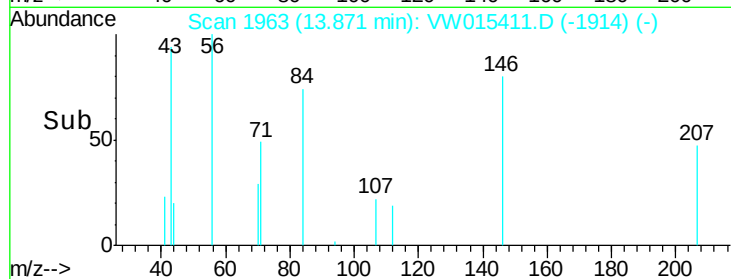
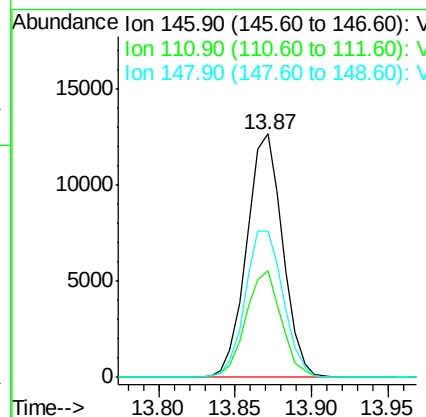
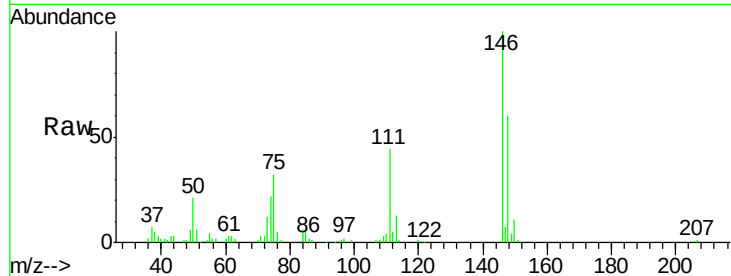
#91
 1,2-Dichlorobenzene
 Concen: 5.126 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW015411.D
 Acq: 06 May 2020 13:11

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT2-2020

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.2	22.1	66.3
148	63.5	32.5	97.4

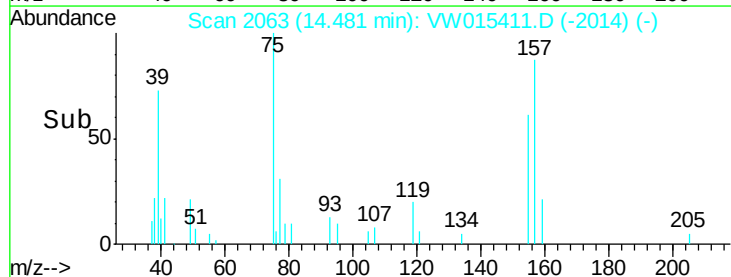
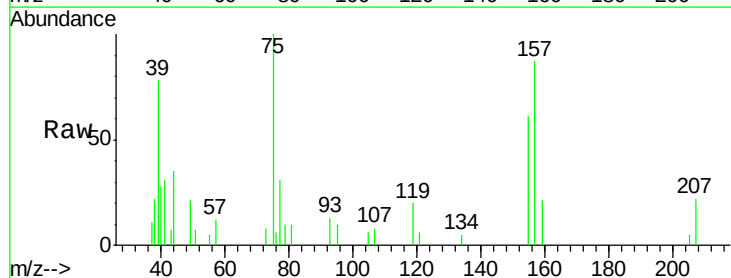
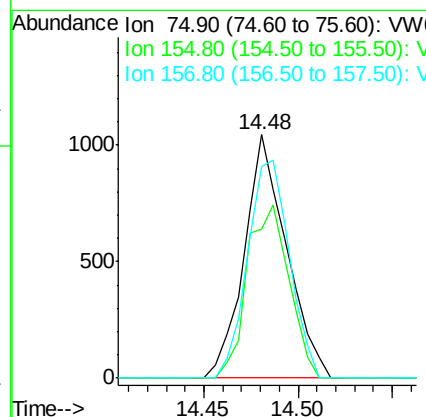
Manual Integrations
 APPROVED

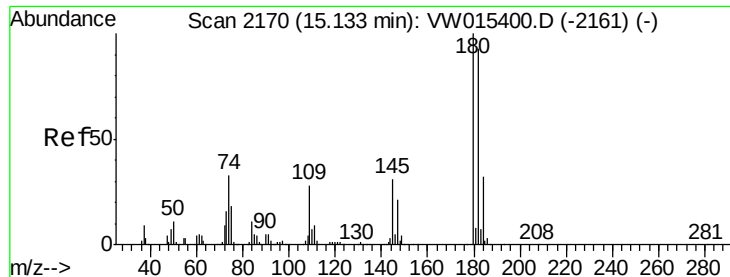
MMDadoda
 5/7/2020 10:35:00 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 5.370 ug/l
 RT: 14.48 min Scan# 2063
 Delta R.T. -0.00 min
 Lab File: VW015411.D
 Acq: 06 May 2020 13:11

Tgt Ion	Ratio	Lower	Upper
75	100		
155	70.6	38.7	116.1
157	88.9	48.1	144.4





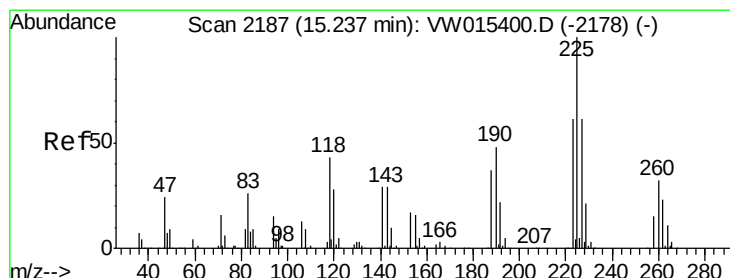
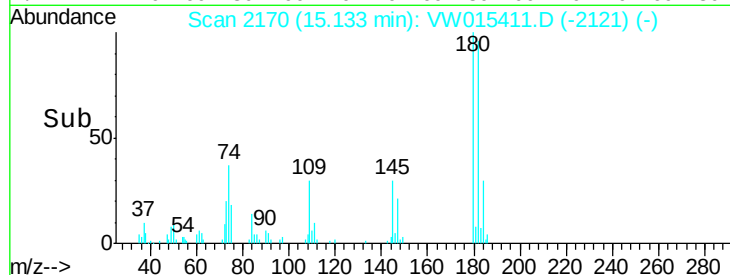
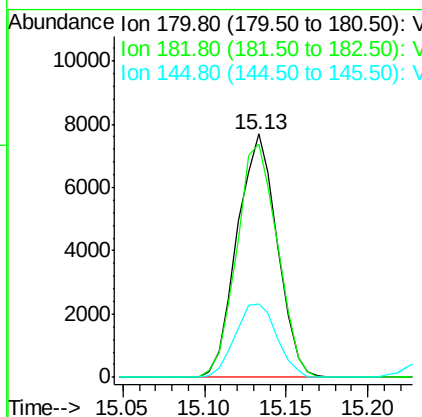
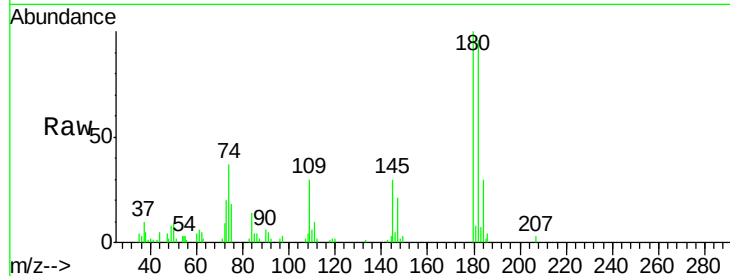
#93
 1,2,4-Trichlorobenzene
 Concen: 4.834 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW015411.D
 Acq: 06 May 2020 13:11

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT2-2020

Tot Ion	Ratio	Resp	Lower	Upper
180	100	13117		
182	97.7	47.2	141.6	
145	31.5	15.6	46.8	

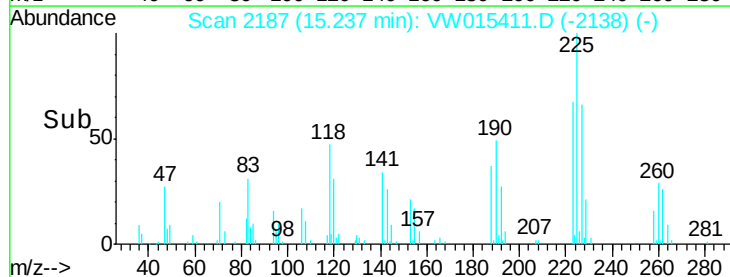
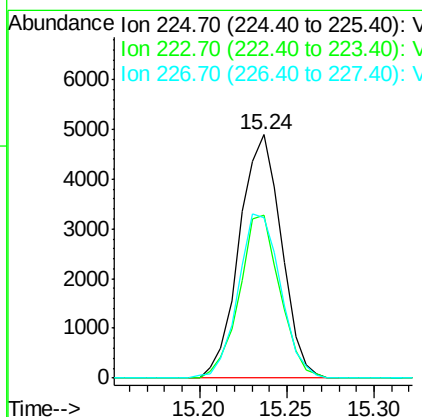
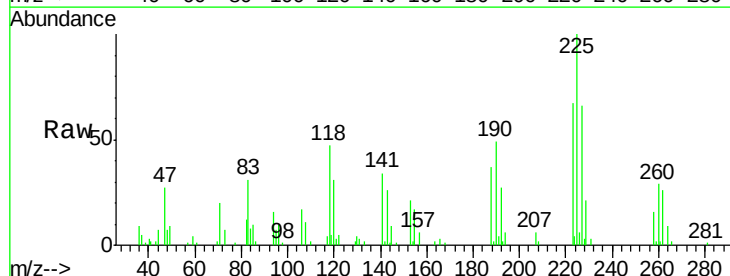
Manual Integrations
 APPROVED

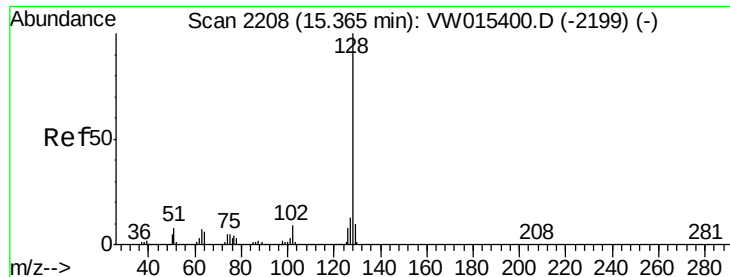
MMDadoda
 5/7/2020 10:35:00 AM



#94
 Hexachlorobutadiene
 Concen: 5.074 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. -0.00 min
 Lab File: VW015411.D
 Acq: 06 May 2020 13:11

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	8160		
223	64.7	30.7	92.1	
227	68.1	32.0	96.0	





#95

Naphthalene

Concen: 4.955 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

Instrument :

MSVOA_W

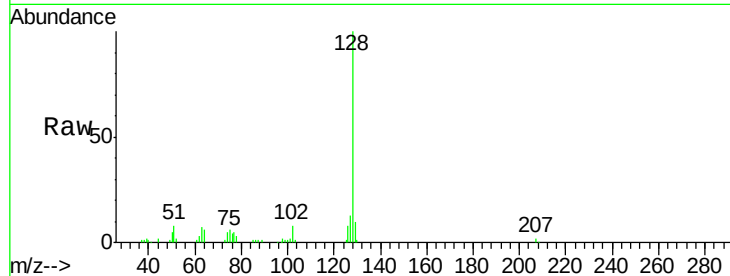
ClientSampleId :

LOQ-SOIL-02-QT2-2020

Tot Ion:	128	Resp:	24086
Ion Ratio	Lower	Upper	
128	100		
127	13.2	10.5	15.7
129	10.3	8.6	12.8

Manual Integrations
APPROVED

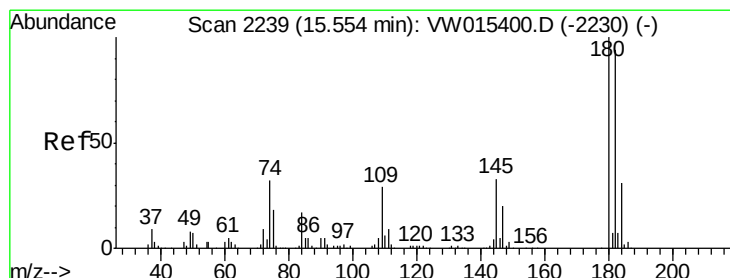
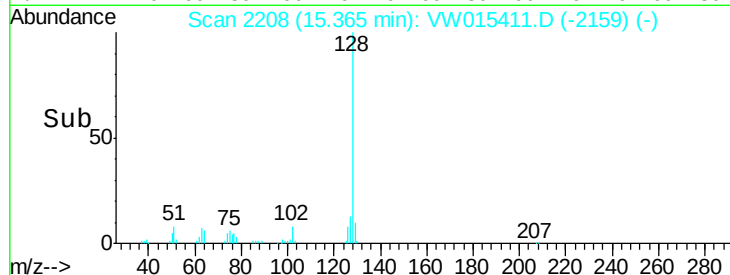
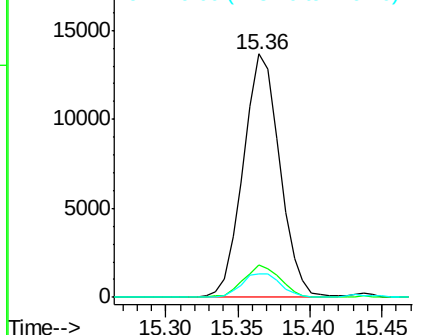
MMDadoda
5/7/2020 10:35:00 AM



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: 5.076 ug/l

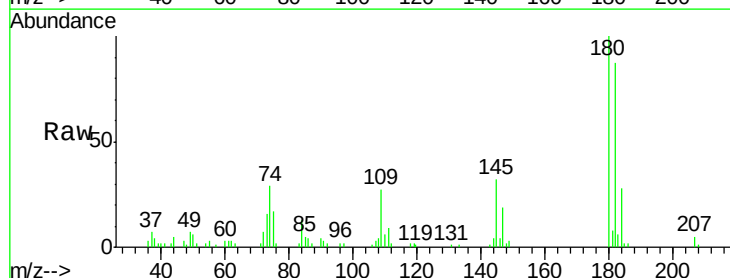
RT: 15.56 min Scan# 2240

Delta R.T. 0.01 min

Lab File: VW015411.D

Acq: 06 May 2020 13:11

Tgt Ion:	180	Resp:	11836
Ion Ratio	Lower	Upper	
180	100		
182	95.3	47.6	142.8
145	31.9	16.3	48.8



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

