

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW050620\
 Data File : VW015409.D
 Acq On : 06 May 2020 12:23
 Operator : SY/VA
 Sample : L2182-01 2.5PPBL0D
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2020

Manual Integrations
 APPROVED

MMDadoda
 5/7/2020 10:34:53 AM

Quant Time: May 07 03:47:43 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	222863	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	369717	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	332762	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	159478	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	125762	51.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.66%	
35) Dibromofluoromethane	7.88	113	107963	50.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.76%	
50) Toluene-d8	10.32	98	449911	51.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.46%	
62) 4-Bromofluorobenzene	12.62	95	163028	50.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.56%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	3109	2.413	ug/l	97
3) Chloromethane	2.21	50	4515	2.799	ug/l	89
4) Vinyl Chloride	2.36	62	5945	2.434	ug/l	97
5) Bromomethane	2.78	94	4914	2.568	ug/l	94
6) Chloroethane	2.92	64	4088	2.428	ug/l	95
7) Trichlorofluoromethane	3.26	101	3737	2.086	ug/l	99
8) Diethyl Ether	3.68	74	3113	2.780	ug/l	85
9) 1,1,2-Trichlorotrifluoroet	4.06	101	5363	2.582	ug/l	96
10) Methyl Iodide	4.27	142	8001	2.546	ug/l	97
11) Tert butyl alcohol	5.18	59	2849	20.167	ug/l #	93
12) 1,1-Dichloroethene	4.03	96	5608	2.603	ug/l	96
13) Acrolein	3.89	56	2437	13.509	ug/l	86
14) Allyl chloride	4.66	41	9607	2.545	ug/l	96
15) Acrylonitrile	5.37	53	6153	13.502	ug/l	99
16) Acetone	4.12	43	7106	18.672	ug/l	93
17) Carbon Disulfide	4.37	76	16335	2.473	ug/l	98
18) Methyl Acetate	4.67	43	2727	2.699	ug/l	100
19) Methyl tert-butyl Ether	5.43	73	9451	2.731	ug/l	97
20) Methylene Chloride	4.92	84	7091	2.856	ug/l	96
21) trans-1,2-Dichloroethene	5.42	96	6377	2.608	ug/l	95
22) Diisopropyl ether	6.31	45	18809	2.550	ug/l	90
23) Vinyl Acetate	6.26	43	55148	12.301	ug/l	97
24) 1,1-Dichloroethane	6.21	63	11443	2.588	ug/l	98
25) 2-Butanone	7.18	43	8905	15.012	ug/l	94
26) 2,2-Dichloropropane	7.17	77	8393	2.864	ug/l	97
27) cis-1,2-Dichloroethene	7.17	96	6824	2.570	ug/l	95
28) Bromochloromethane	7.51	49	4468	2.513	ug/l #	99
29) Tetrahydrofuran	7.53	42	5679	14.547	ug/l	95
30) Chloroform	7.68	83	11292	2.570	ug/l	92
31) Cyclohexane	7.95	56	16388	3.650	ug/l #	65
32) 1,1,1-Trichloroethane	7.87	97	9372	2.538	ug/l	97
36) 1,1-Dichloropropene	8.08	75	9122	2.511	ug/l	97
37) Ethyl Acetate	7.26	43	3998	2.837	ug/l	99
38) Carbon Tetrachloride	8.07	117	8530	2.512	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW050620\
 Data File : VW015409.D
 Acq On : 06 May 2020 12:23
 Operator : SY/VA
 Sample : L2182-01 2.5PPBL0D
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2020

Manual Integrations
 APPROVED

MMDadoda
 5/7/2020 10:34:53 AM

Quant Time: May 07 03:47:43 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)
39) Methylcyclohexane	9.34	83	11999	2.610	ug/l	96
40) Benzene	8.32	78	25440	2.568	ug/l	99
41) Methacrylonitrile	7.48	41	2180	2.448	ug/l #	88
42) 1,2-Dichloroethane	8.40	62	8192	2.715	ug/l	98
43) Isopropyl Acetate	8.42	43	8024	2.707	ug/l	98
44) Trichloroethene	9.09	130	6640	2.586	ug/l	95
45) 1,2-Dichloropropane	9.37	63	6252	2.555	ug/l	98
46) Dibromomethane	9.46	93	3168	2.603	ug/l	96
47) Bromodichloromethane	9.65	83	8372	2.524	ug/l	97
48) Methyl methacrylate	9.44	41	3565	2.604	ug/l	98
49) 1,4-Dioxane	9.45	88	909	59.341	ug/l #	76
51) 4-Methyl-2-Pentanone	10.21	43	18970	13.656	ug/l	97
52) Toluene	10.39	92	16929	2.630	ug/l	99
53) t-1,3-Dichloropropene	10.60	75	8399	2.480	ug/l	100
54) cis-1,3-Dichloropropene	10.07	75	9757	2.447	ug/l	95
55) 1,1,2-Trichloroethane	10.79	97	4536	2.635	ug/l	97
56) Ethyl methacrylate	10.65	69	5846	2.472	ug/l	93
57) 1,3-Dichloropropane	10.93	76	7771	2.511	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.92	63	13242	11.509	ug/l	98
59) 2-Hexanone	10.97	43	12678	13.488	ug/l	95
60) Dibromochloromethane	11.13	129	5006	2.418	ug/l	99
61) 1,2-Dibromoethane	11.24	107	4215	2.586	ug/l	100
64) Tetrachloroethene	10.86	164	5659	2.782	ug/l	94
65) Chlorobenzene	11.65	112	17180	2.619	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.73	131	5830	2.506	ug/l	100
67) Ethyl Benzene	11.73	91	32323	2.574	ug/l	97
68) m/p-Xylenes	11.83	106	24123	5.167	ug/l	98
69) o-Xylene	12.16	106	10952	2.496	ug/l	98
70) Styrene	12.18	104	18102	2.396	ug/l	99
71) Bromoform	12.34	173	2768	2.440	ug/l #	96
73) Isopropylbenzene	12.46	105	30951	2.600	ug/l	100
74) N-amyl acetate	12.27	43	7842	2.786	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.71	83	5027	2.699	ug/l	98
76) 1,2,3-Trichloropropane	12.77	75	3320m	2.531	ug/l	
77) Bromobenzene	12.74	156	6839	2.711	ug/l	99
78) n-propylbenzene	12.80	91	37661	2.636	ug/l	100
79) 2-Chlorotoluene	12.89	91	21271	2.642	ug/l	98
80) 1,3,5-Trimethylbenzene	12.94	105	26594	2.652	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.51	75	1607m	2.423	ug/l	
82) 4-Chlorotoluene	12.99	91	22847	2.677	ug/l	100
83) tert-Butylbenzene	13.20	119	22700	2.653	ug/l	100
84) 1,2,4-Trimethylbenzene	13.25	105	26047	2.596	ug/l	99
85) sec-Butylbenzene	13.38	105	31104	2.580	ug/l	99
86) p-Isopropyltoluene	13.50	119	28206	2.565	ug/l	98
87) 1,3-Dichlorobenzene	13.50	146	13351	2.656	ug/l	96
88) 1,4-Dichlorobenzene	13.58	146	13828	2.778	ug/l	87
89) n-Butylbenzene	13.82	91	27457	2.551	ug/l	99
90) Hexachloroethane	14.09	117	5153	2.543	ug/l	98
91) 1,2-Dichlorobenzene	13.87	146	11955	2.747	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.48	75	934	2.872	ug/l	93

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW050620\
Data File : VW015409.D
Acq On : 06 May 2020 12:23
Operator : SY/VA
Sample : L2182-01 2.5PPBL0D
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

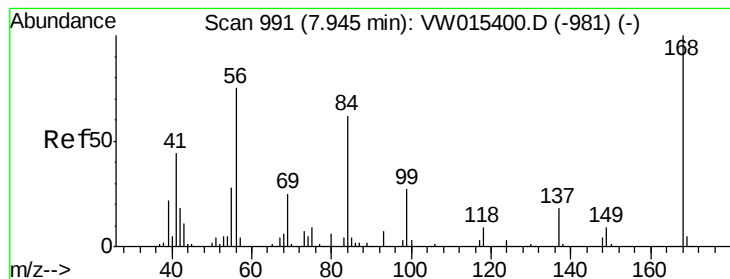
Manual Integrations
APPROVED

MMDadoda
5/7/2020 10:34:53 AM

Quant Time: May 07 03:47:43 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)
93) 1,2,4-Trichlorobenzene	15.13	180	7846	2.683	ug/l	98
94) Hexachlorobutadiene	15.24	225	4704	2.714	ug/l	99
95) Naphthalene	15.36	128	13453	2.568	ug/l	98
96) 1,2,3-Trichlorobenzene	15.55	180	6771	2.694	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion:168 Resp: 222863

Ion Ratio Lower Upper

168 100

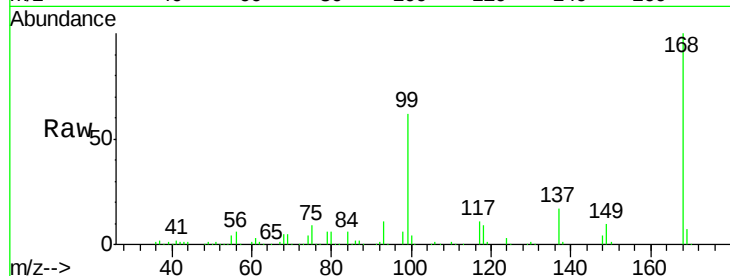
99 62.0 50.3 75.5

Manual Integrations

APPROVED

MMDadoda

5/7/2020 10:34:53 AM



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

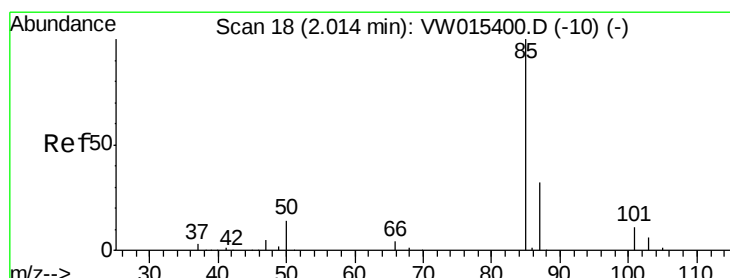
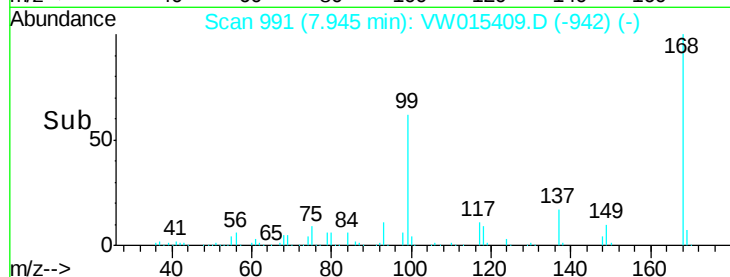
20000

0

7.90

8.00

Time-->



#2

Dichlorodifluoromethane

Concen: 2.413 ug/l

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW015409.D

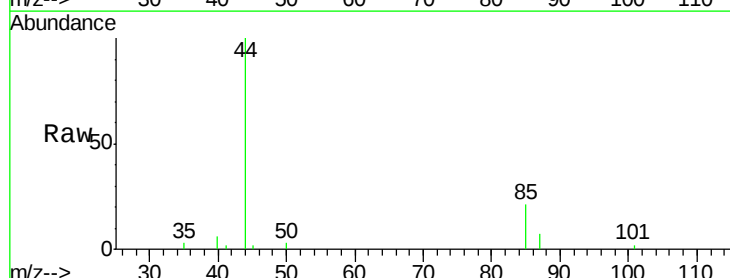
Acq: 06 May 2020 12:23

Tgt Ion: 85 Resp: 3109

Ion Ratio Lower Upper

85 100

87 30.6 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

1000

800

600

400

200

0

1.95

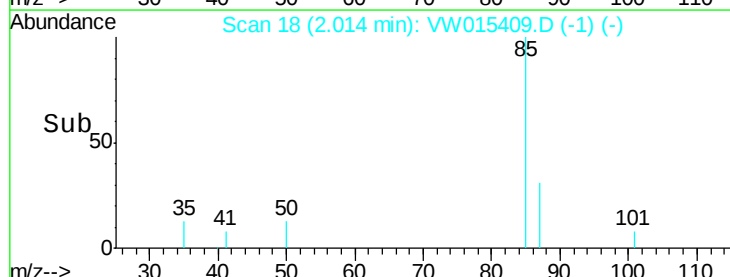
2.00

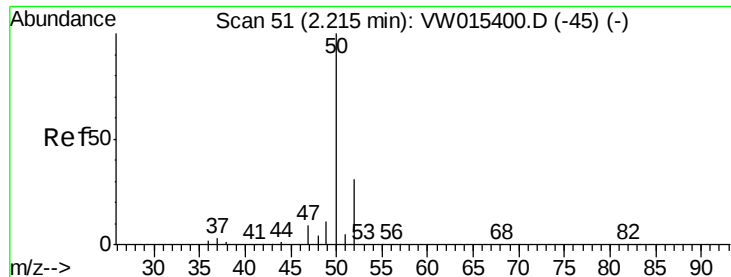
2.05

2.10

2.15

Time-->





#3

Chloromethane

Concen: 2.799 ug/l

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion: 50 Resp: 4515

Ion Ratio Lower Upper

50 100

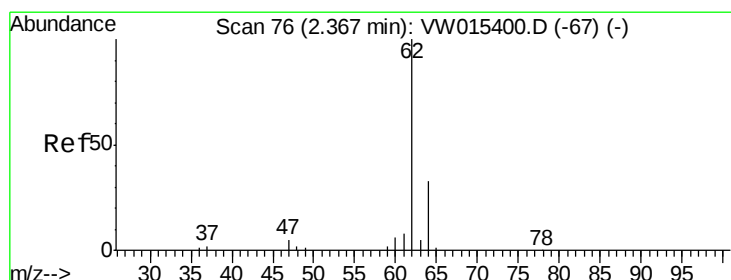
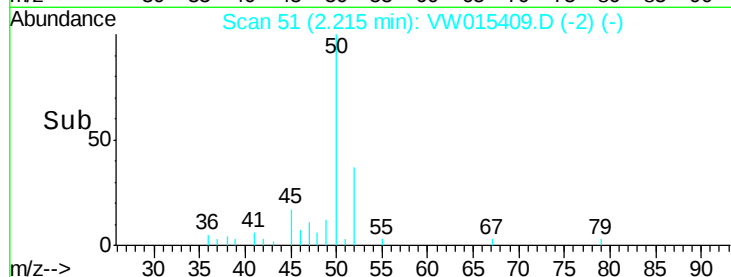
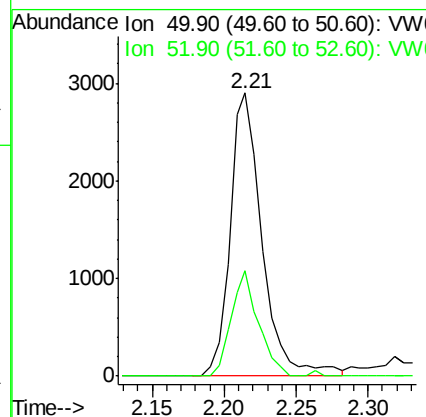
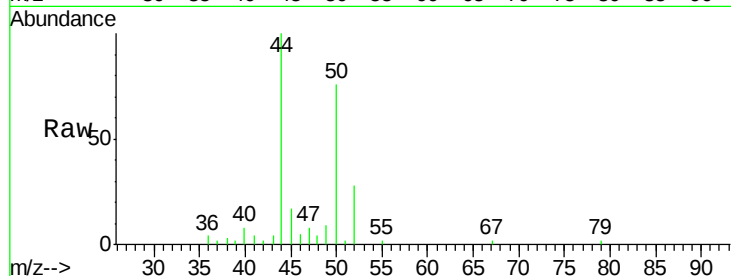
52 37.3 25.0 37.6

Manual Integrations

APPROVED

MMDadoda

5/7/2020 10:34:53 AM



#4

Vinyl Chloride

Concen: 2.434 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW015409.D

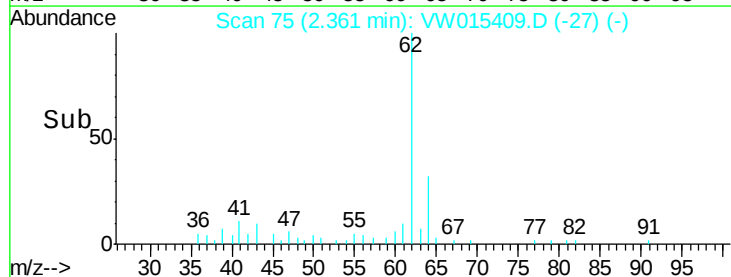
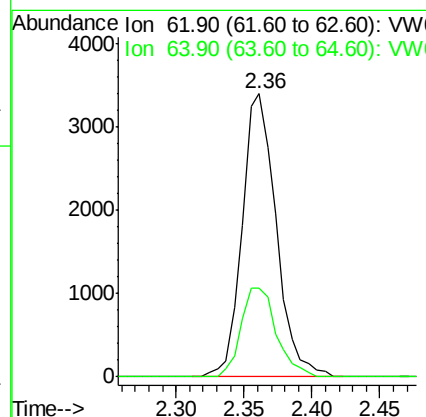
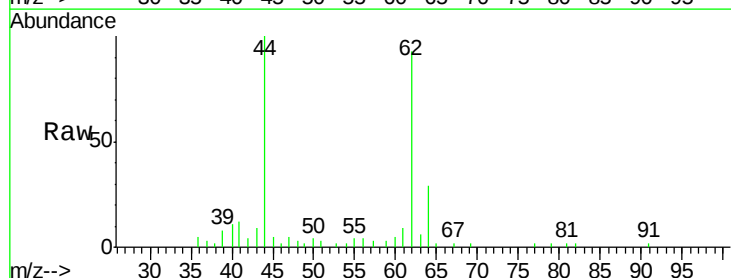
Acq: 06 May 2020 12:23

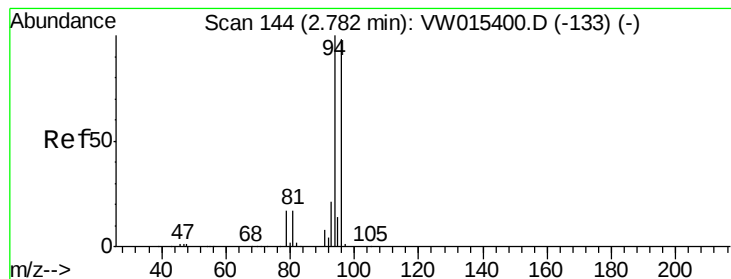
Tgt Ion: 62 Resp: 5945

Ion Ratio Lower Upper

62 100

64 31.6 26.4 39.6





#5

Bromomethane

Concen: 2.568 ug/l

RT: 2.78 min Scan# 143

Delta R.T. -0.01 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion: 94 Resp: 4914

Ion Ratio Lower Upper

94 100

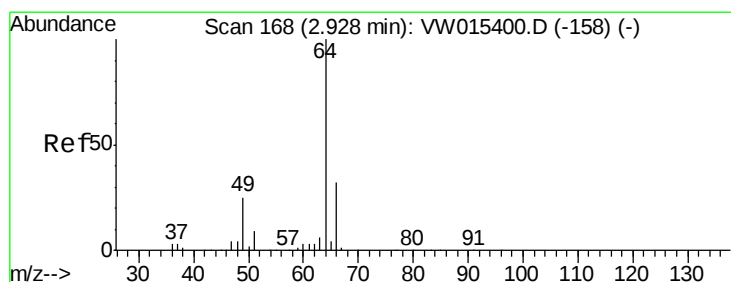
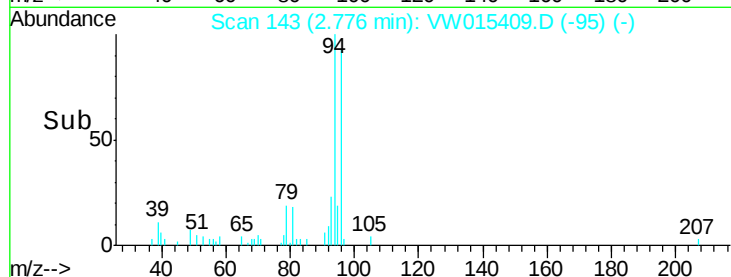
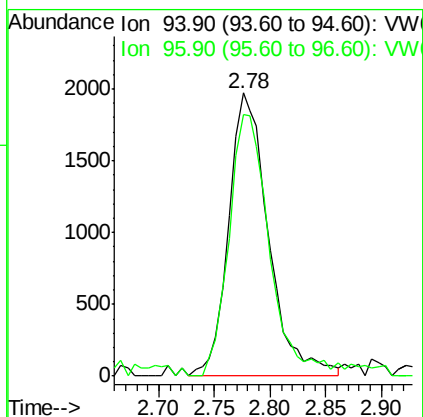
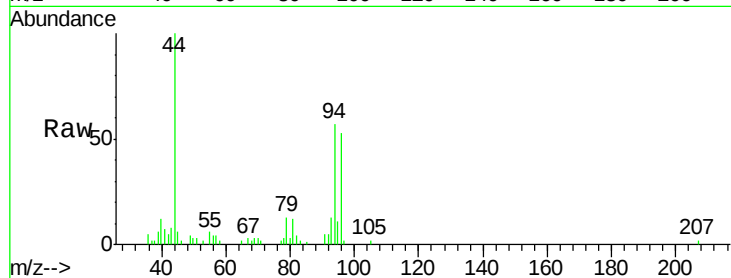
96 92.6 78.8 118.2

Manual Integrations

APPROVED

MMDadoda

5/7/2020 10:34:53 AM



#6

Chloroethane

Concen: 2.428 ug/l

RT: 2.92 min Scan# 167

Delta R.T. -0.01 min

Lab File: VW015409.D

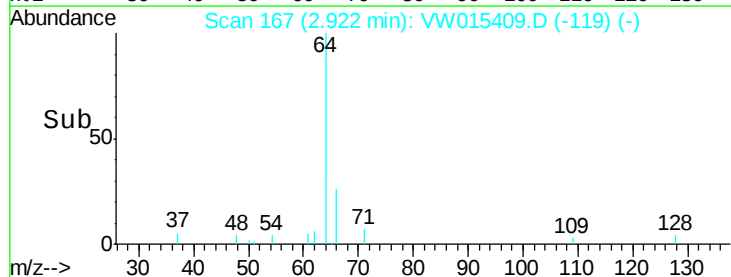
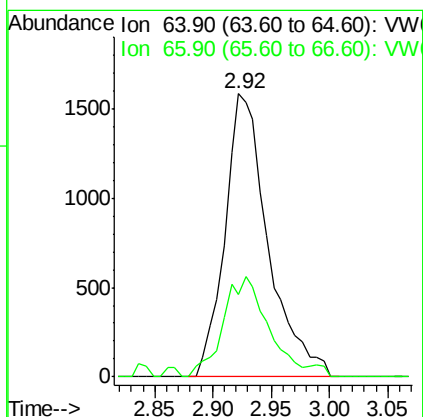
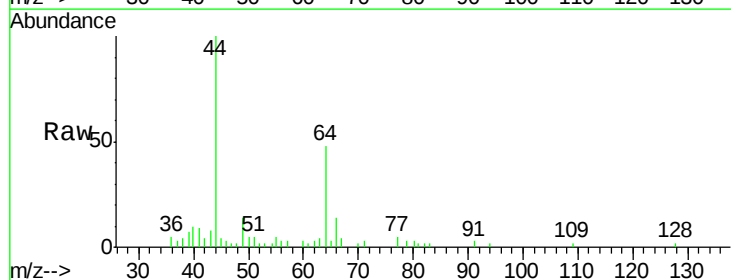
Acq: 06 May 2020 12:23

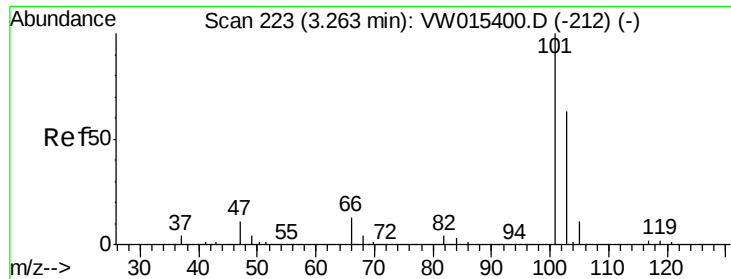
Tgt Ion: 64 Resp: 4088

Ion Ratio Lower Upper

64 100

66 29.0 25.4 38.0





#7

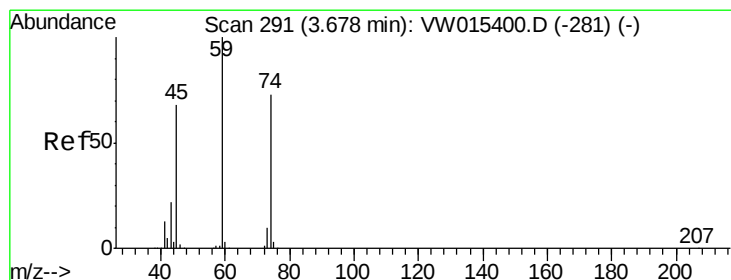
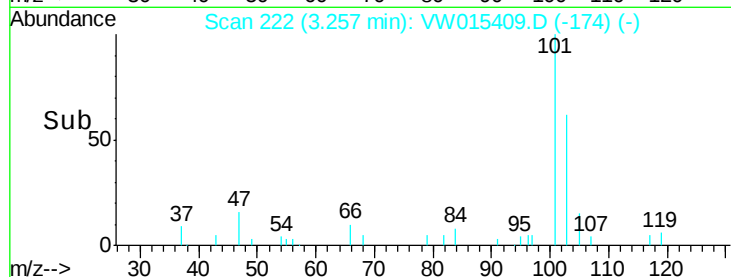
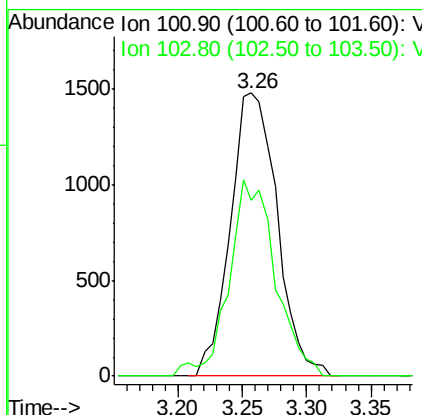
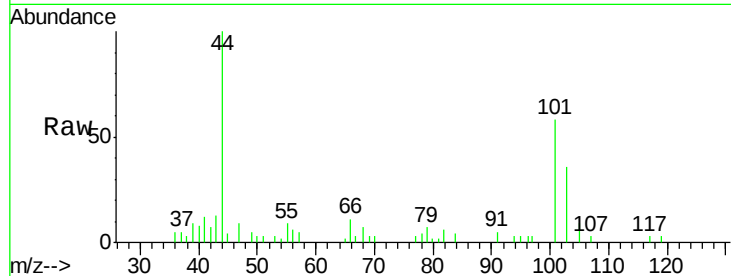
Trichlorofluoromethane
Concen: 2.086 ug/l
RT: 3.26 min Scan# 222
Delta R.T. -0.01 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
101	100		
103	62.0	50.2	75.4

Manual Integrations
APPROVED

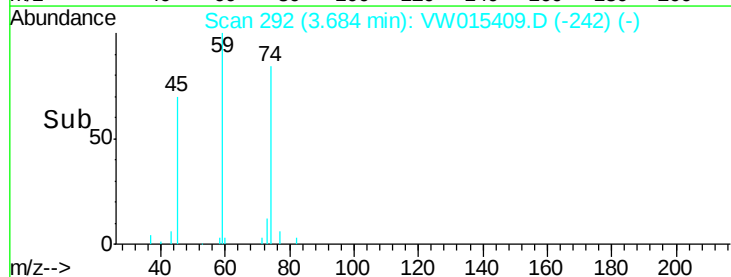
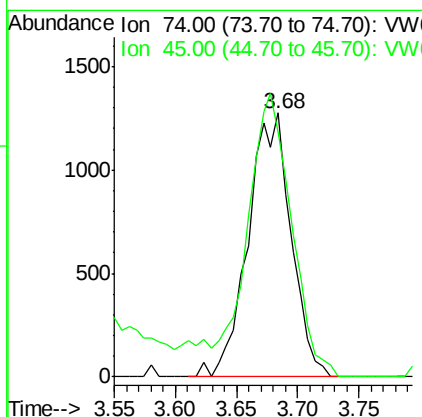
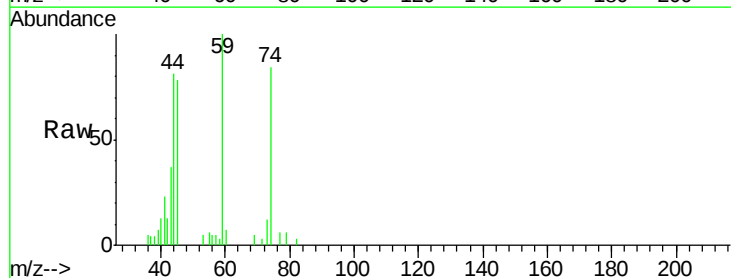
MMDadoda
5/7/2020 10:34:53 AM

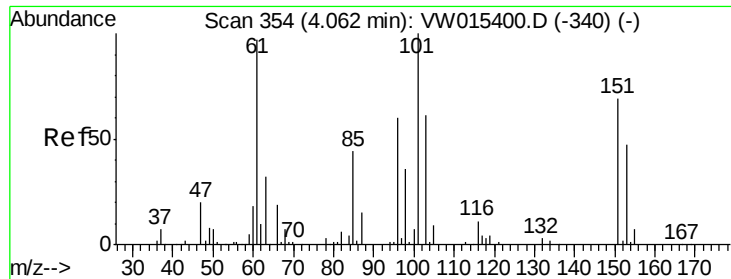


#8

Diethyl Ether
Concen: 2.780 ug/l
RT: 3.68 min Scan# 292
Delta R.T. 0.01 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Tgt Ion	Ratio	Lower	Upper
74	100		
45	110.7	48.3	144.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.582 ug/l

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

Instrument :

MSVOA_W

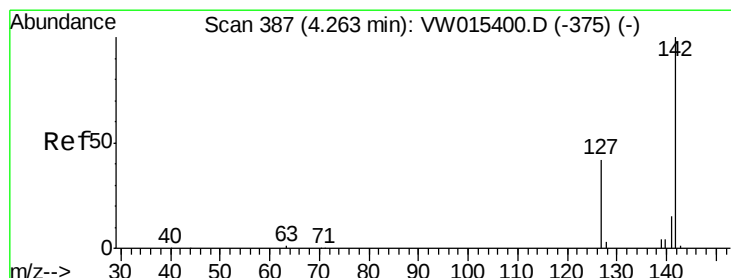
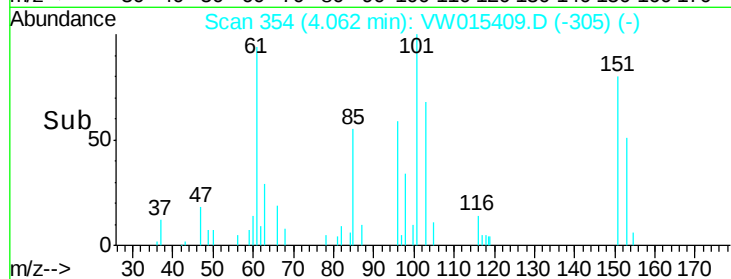
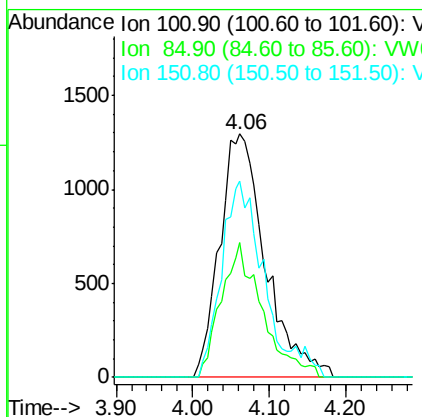
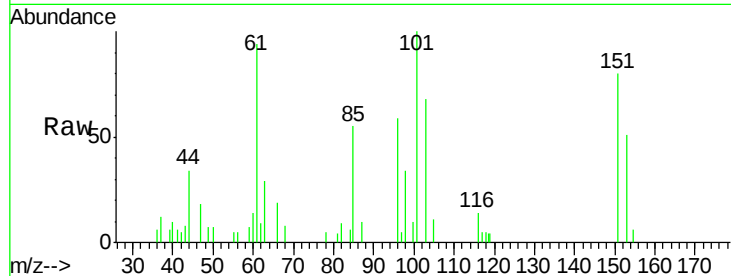
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion:	101	Resp:	5363
Ion Ratio	Lower	Upper	
101	100		
85	49.5	37.3	55.9
151	70.9	58.9	88.3

Manual Integrations
APPROVED

MMDadoda
5/7/2020 10:34:53 AM



#10

Methyl Iodide

Concen: 2.546 ug/l

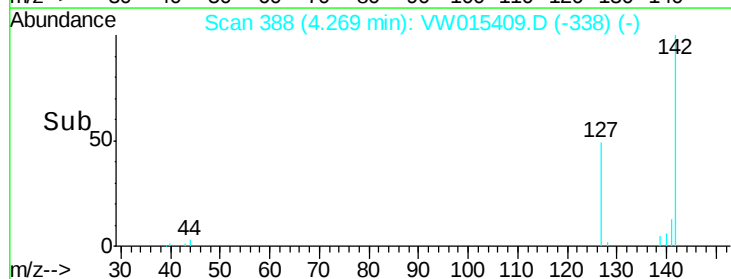
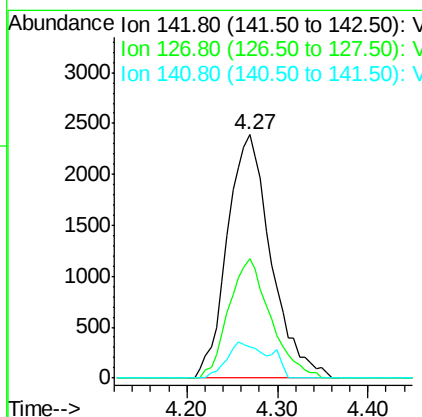
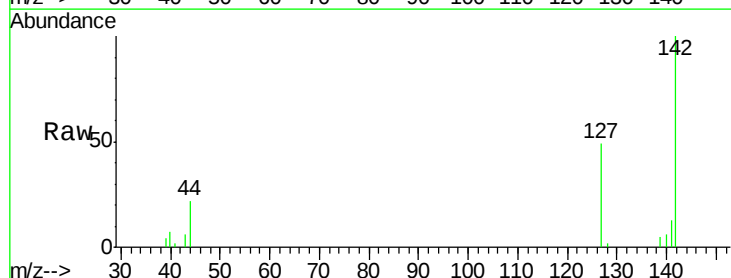
RT: 4.27 min Scan# 388

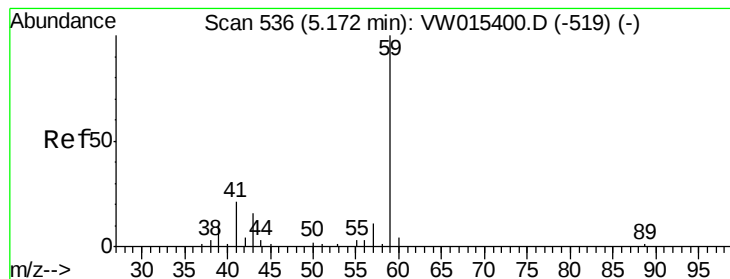
Delta R.T. 0.01 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

Tgt Ion:	142	Resp:	8001
Ion Ratio	Lower	Upper	
142	100		
127	46.8	35.4	53.2
141	14.2	11.7	17.5





#11

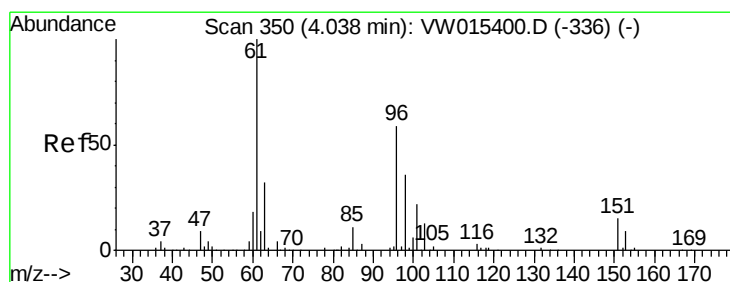
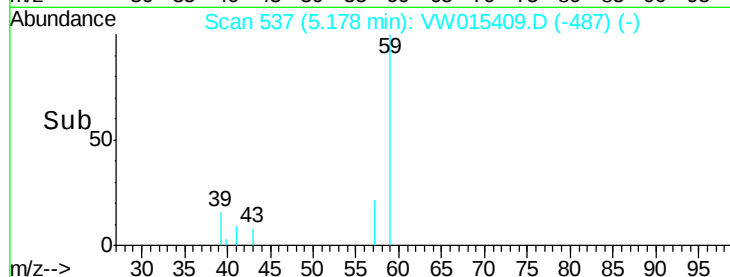
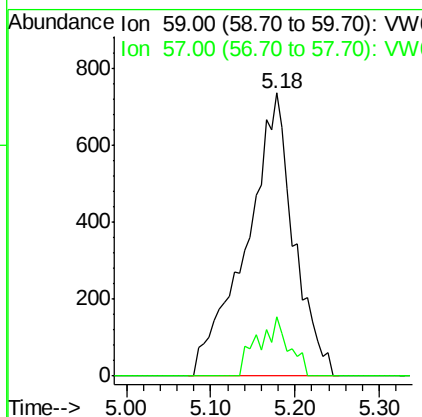
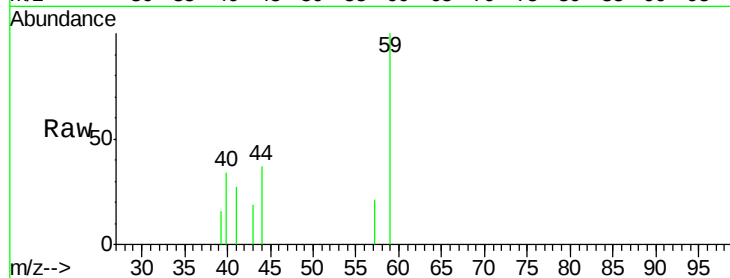
Tert butyl alcohol
 Concen: 20.167 ug/l
 RT: 5.18 min Scan# 537
 Delta R.T. 0.01 min
 Lab File: VW015409.D
 Acq: 06 May 2020 12:23

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
59	100		
57	13.4	8.6	13.0#

Manual Integrations
 APPROVED

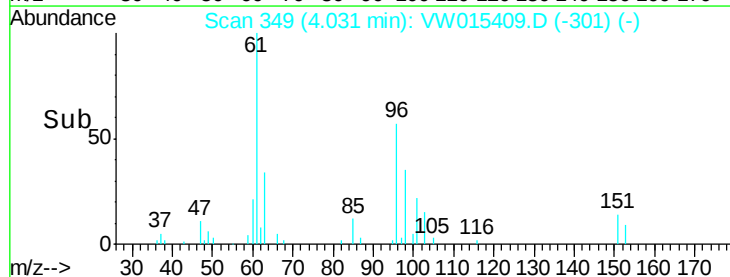
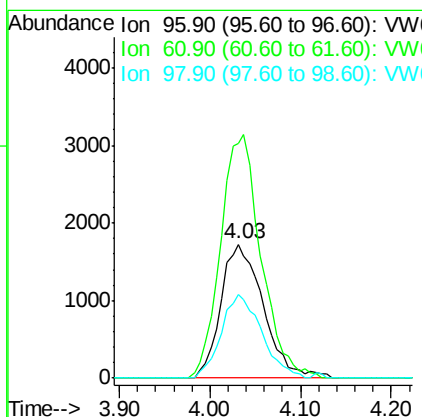
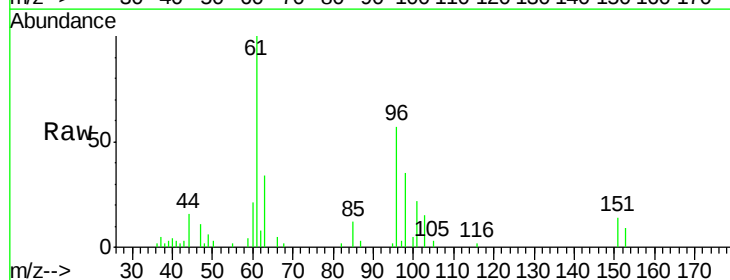
MMDadoda
 5/7/2020 10:34:53 AM

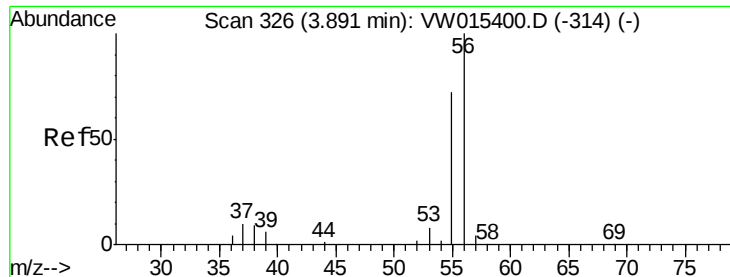


#12

1,1-Dichloroethene
 Concen: 2.603 ug/l
 RT: 4.03 min Scan# 349
 Delta R.T. -0.01 min
 Lab File: VW015409.D
 Acq: 06 May 2020 12:23

Tgt Ion	Ratio	Lower	Upper
96	100		
61	176.1	135.8	203.8
98	62.4	48.6	72.8





#13

Acrolein

Concen: 13.509 ug/l

RT: 3.89 min Scan# 325

Delta R.T. -0.01 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion: 56 Resp: 2437

Ion Ratio Lower Upper

56 100

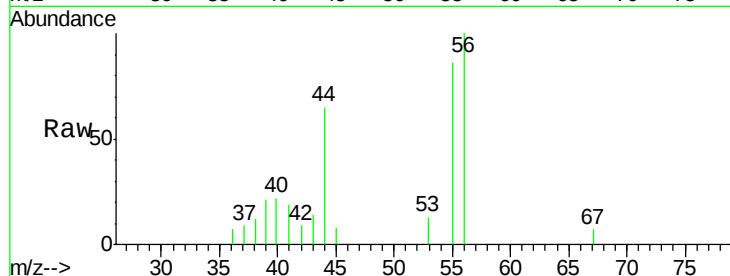
55 82.1 56.4 84.6

Manual Integrations

APPROVED

MMDadoda

5/7/2020 10:34:53 AM



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW

3.89

800

600

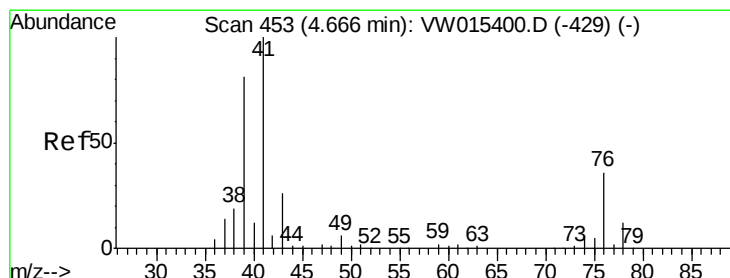
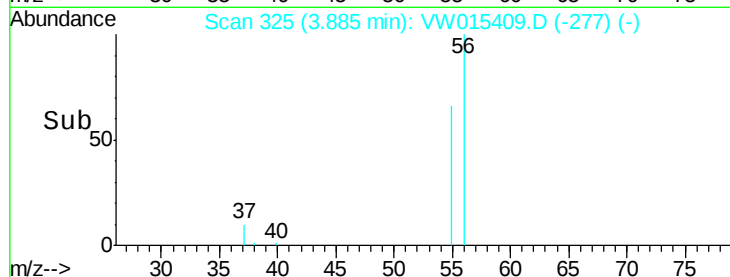
400

200

0

3.80 3.85 3.90 3.95

Time-->



#14

Allyl chloride

Concen: 2.545 ug/l

RT: 4.66 min Scan# 452

Delta R.T. -0.01 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

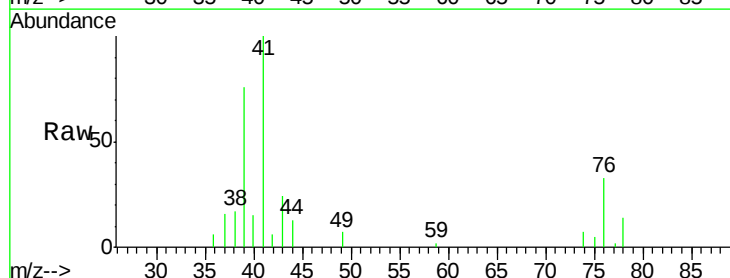
Tgt Ion: 41 Resp: 9607

Ion Ratio Lower Upper

41 100

39 84.5 63.6 95.4

76 35.7 28.4 42.6



Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 75.90 (75.60 to 76.60): VW

4.66

4000

3000

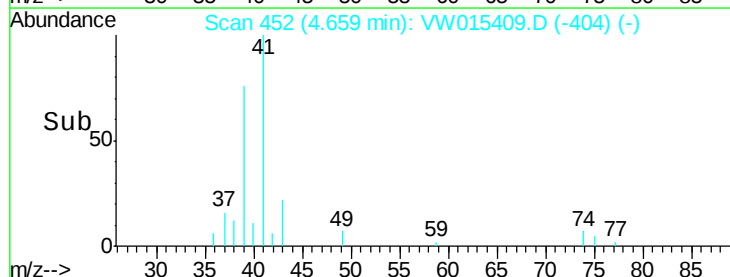
2000

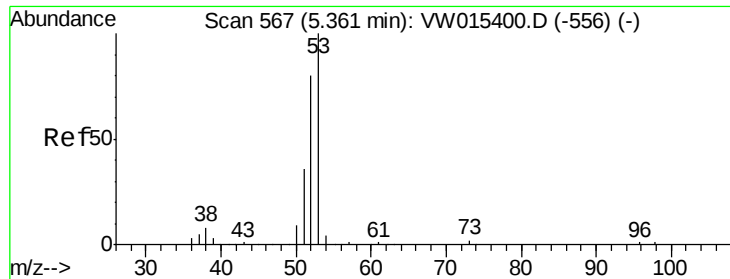
1000

0

4.60 4.70

Time-->





#15

Acrylonitrile

Concen: 13.502 ug/l

RT: 5.37 min Scan# 568

Delta R.T. 0.01 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

Instrument :

MSVOA_W

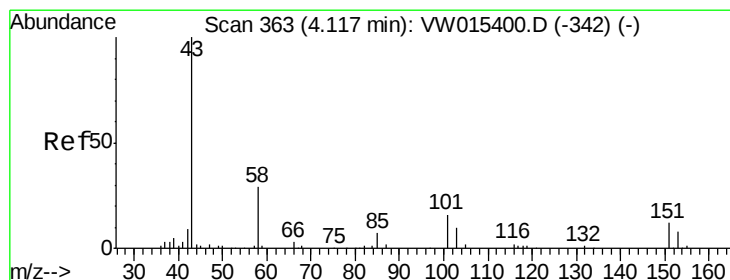
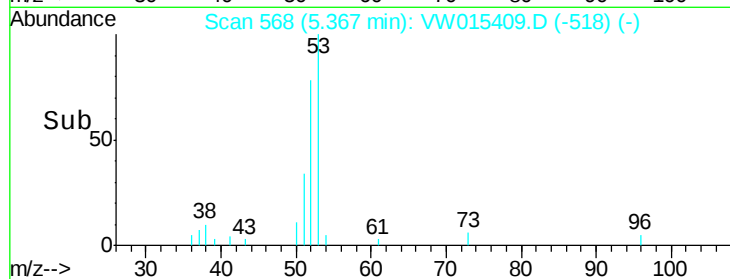
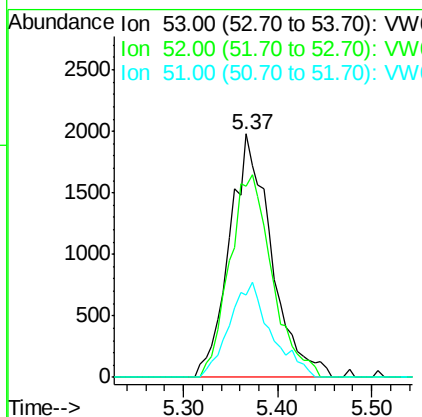
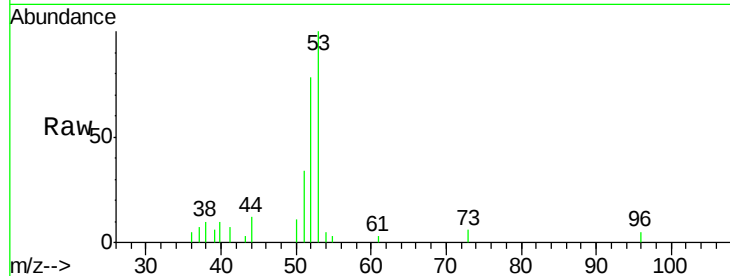
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion:	53	Resp:	6153
Ion	Ratio	Lower	Upper
53	100		
52	84.4	66.6	99.8
51	38.8	30.2	45.2

Manual Integrations
APPROVED

MMDadoda
5/7/2020 10:34:53 AM



#16

Acetone

Concen: 18.672 ug/l

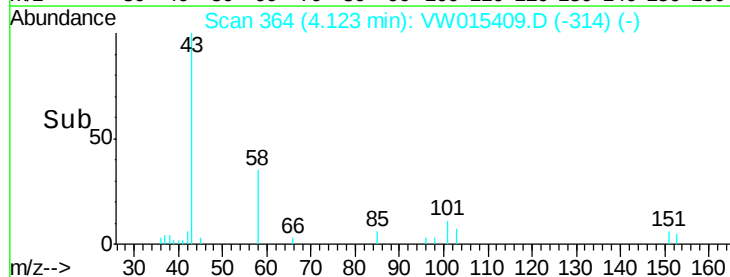
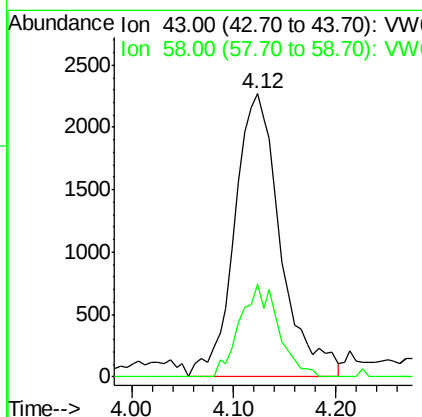
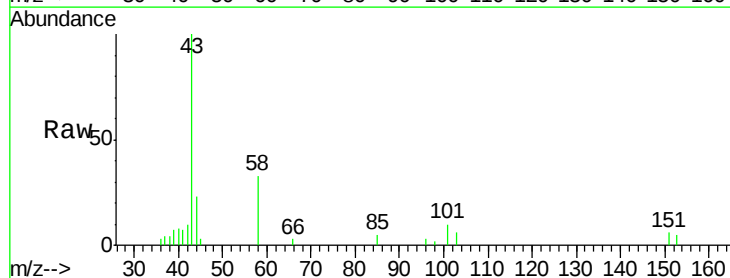
RT: 4.12 min Scan# 364

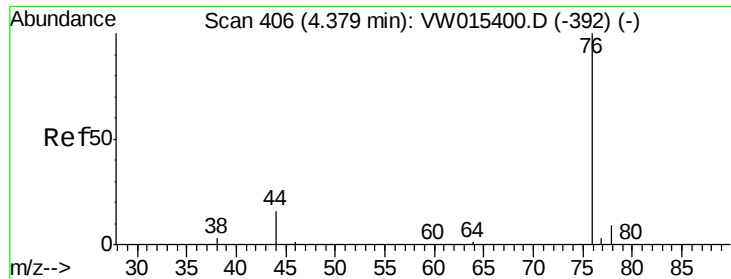
Delta R.T. 0.01 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

Tgt Ion:	43	Resp:	7106
Ion	Ratio	Lower	Upper
43	100		
58	32.8	23.4	35.0





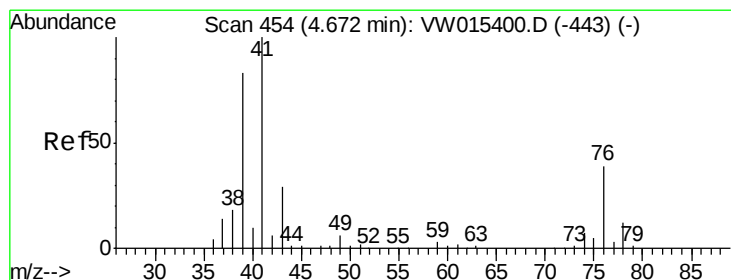
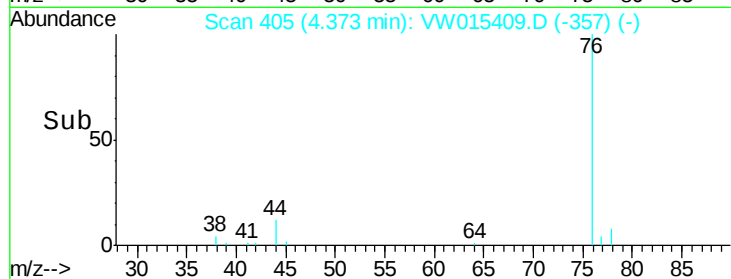
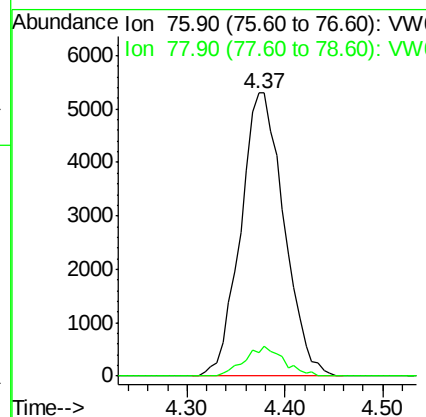
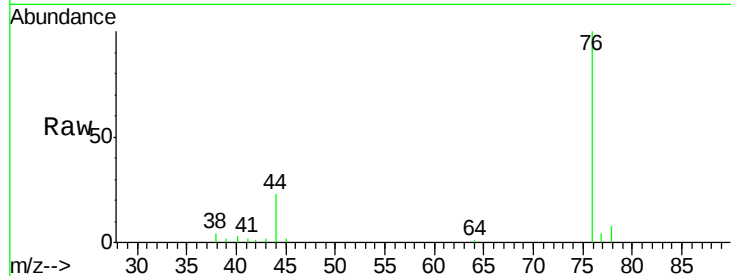
#17
Carbon Disulfide
Concen: 2.473 ug/l
RT: 4.37 min Scan# 405
Delta R.T. -0.01 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

Tot Ion: 76 Resp: 16335
Ion Ratio Lower Upper
76 100
78 8.3 7.3 10.9

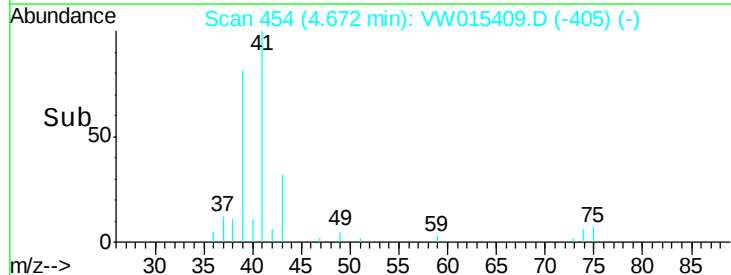
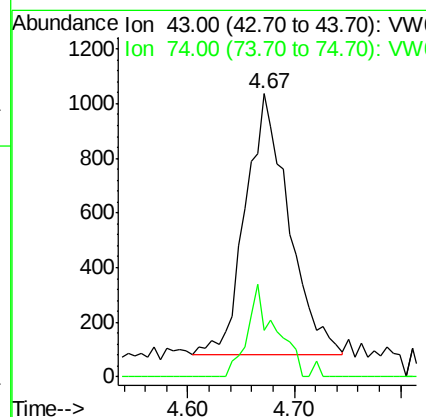
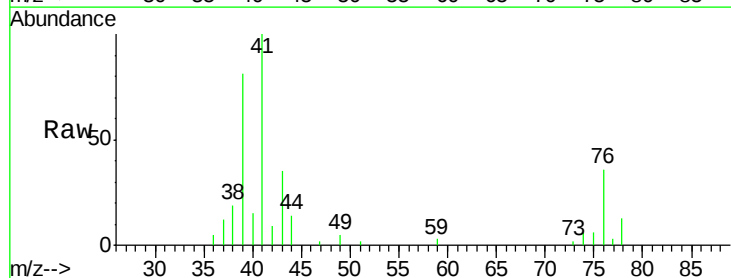
Manual Integrations
APPROVED

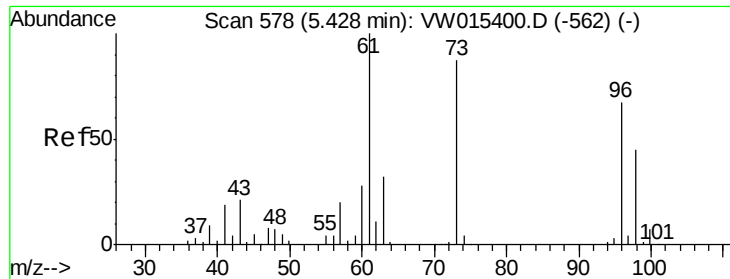
MMDadoda
5/7/2020 10:34:53 AM



#18
Methyl Acetate
Concen: 2.699 ug/l
RT: 4.67 min Scan# 454
Delta R.T. 0.00 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Tgt Ion: 43 Resp: 2727
Ion Ratio Lower Upper
43 100
74 23.2 18.7 28.1





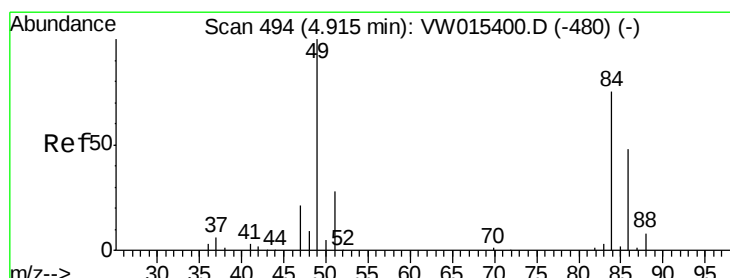
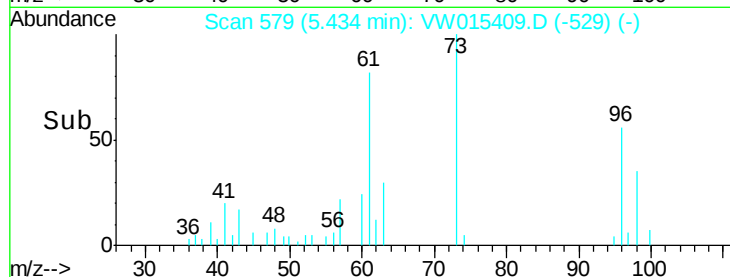
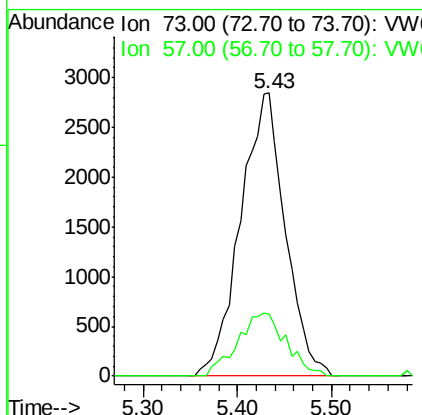
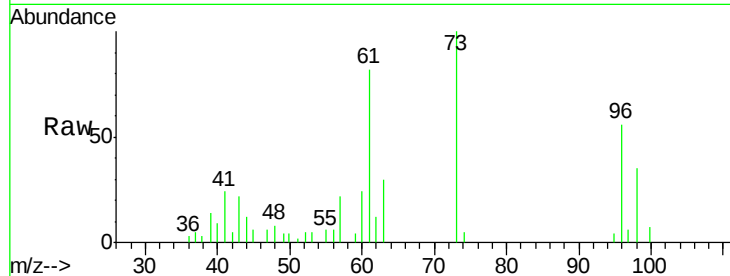
#19
Methyl tert-butyl Ether
Concen: 2.731 ug/l
RT: 5.43 min Scan# 579
Delta R.T. 0.01 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

Tot Ion: 73 Resp: 9451
Ion Ratio Lower Upper
73 100
57 21.7 18.5 27.7

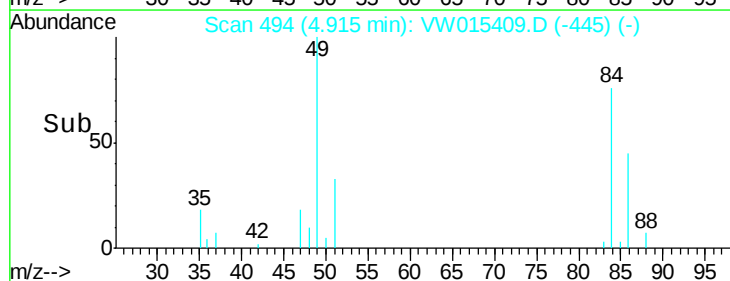
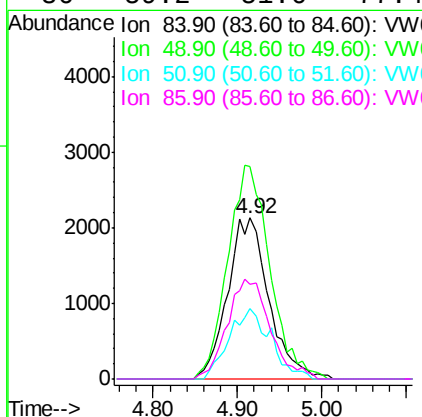
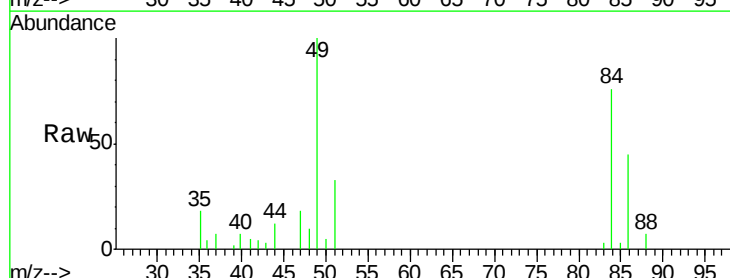
Manual Integrations
APPROVED

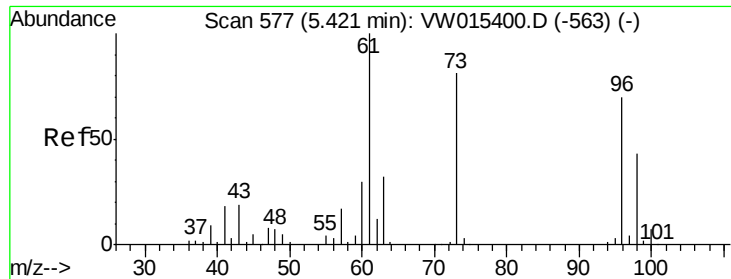
MMDadoda
5/7/2020 10:34:53 AM



#20
Methylene Chloride
Concen: 2.856 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Tgt Ion: 84 Resp: 7091
Ion Ratio Lower Upper
84 100
49 132.4 106.4 159.6
51 43.6 30.2 45.2
86 59.2 51.6 77.4





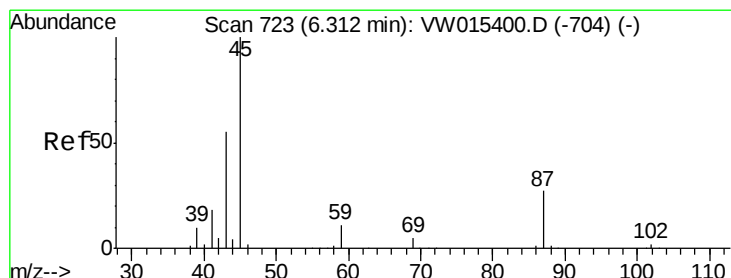
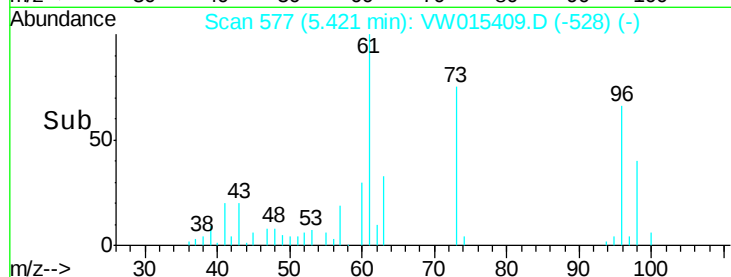
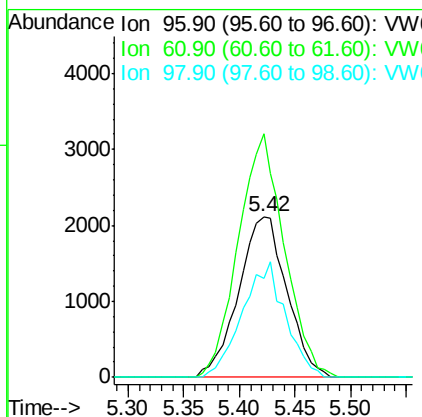
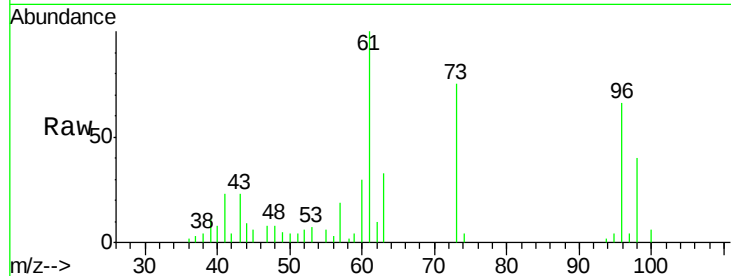
#21
trans-1,2-Dichloroethene
Concen: 2.608 ug/l
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
96	100		
61	151.3	114.9	172.3
98	61.1	49.4	74.0

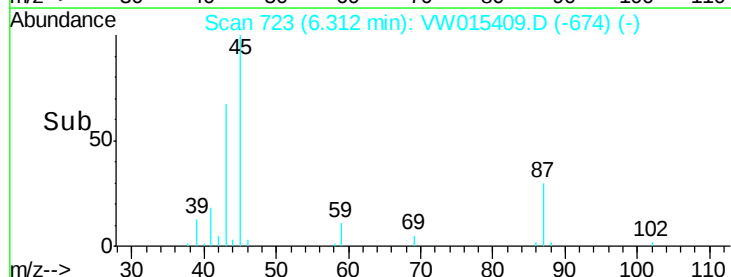
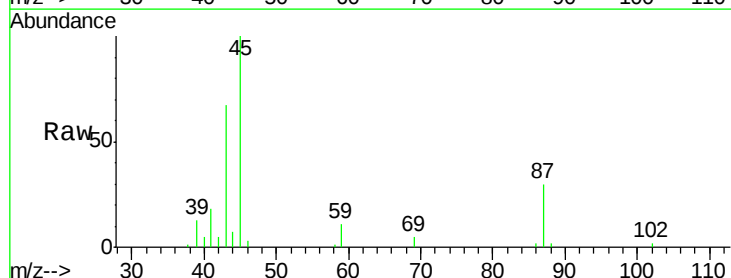
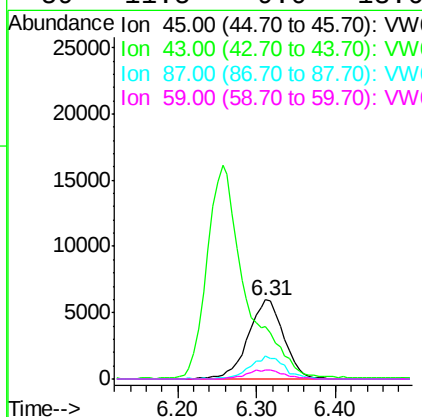
Manual Integrations
APPROVED

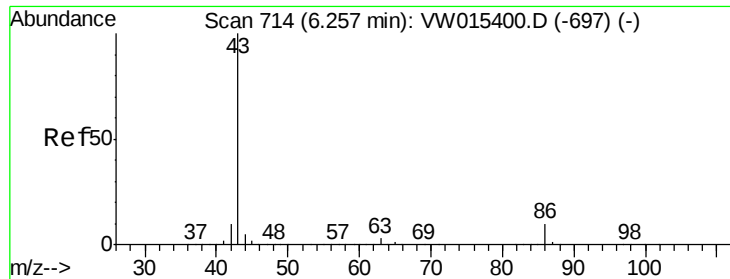
MMDadoda
5/7/2020 10:34:53 AM



#22
Diisopropyl ether
Concen: 2.550 ug/l
RT: 6.31 min Scan# 723
Delta R.T. 0.00 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Tgt Ion	Ratio	Lower	Upper
45	100		
43	65.1	44.2	66.4
87	29.7	21.6	32.4
59	11.5	9.0	13.6





#23

Vinyl Acetate

Concen: 12.301 ug/l

RT: 6.26 min Scan# 714

Delta R.T. 0.00 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion: 43 Resp: 55148

Ion Ratio Lower Upper

43 100

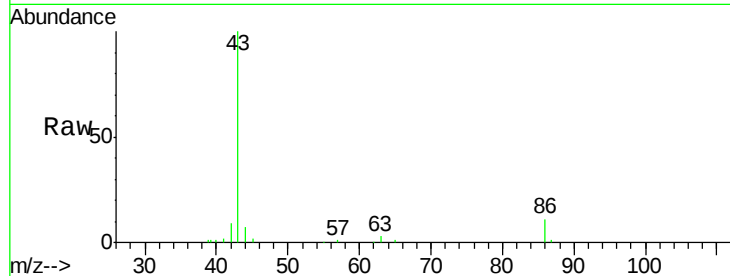
86 11.1 8.1 12.1

Manual Integrations

APPROVED

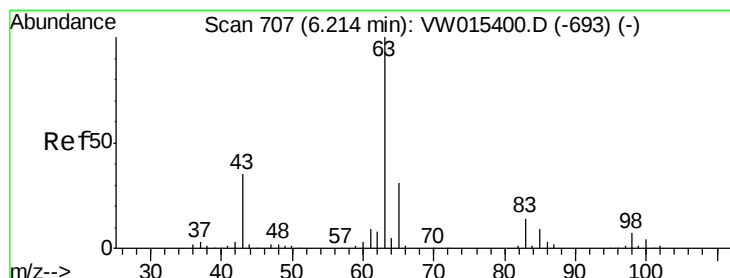
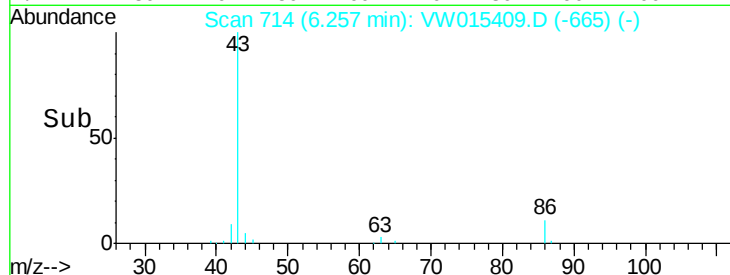
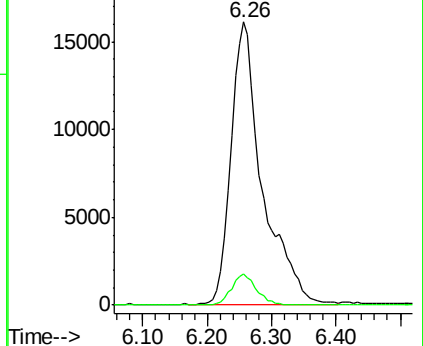
MMDadoda

5/7/2020 10:34:53 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: 2.588 ug/l

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

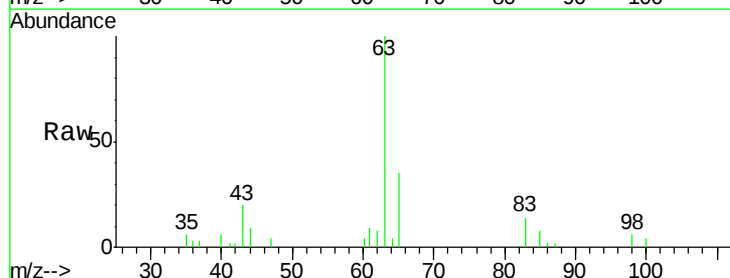
Tgt Ion: 63 Resp: 11443

Ion Ratio Lower Upper

63 100

98 5.9 3.5 10.4

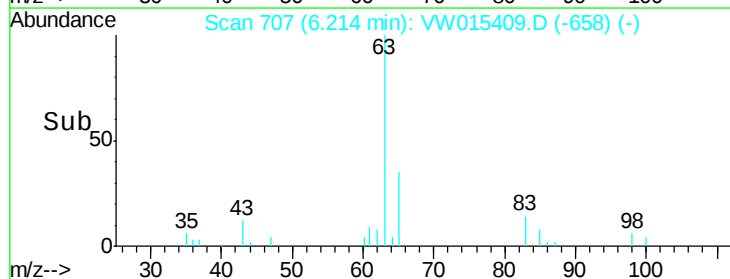
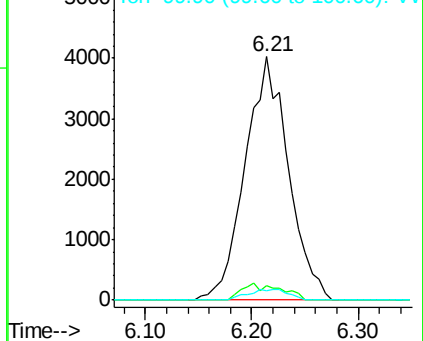
100 3.7 2.1 6.5

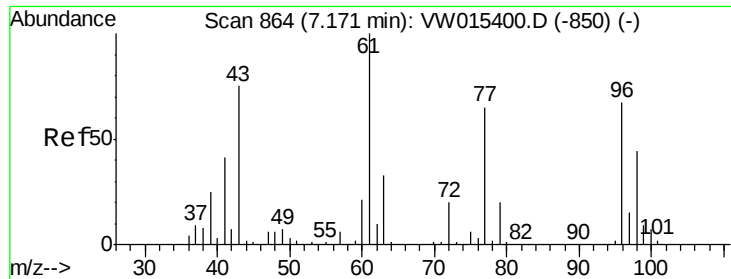


Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW





#25

2-Butanone

Concen: 15.012 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

Tot Ion: 43 Resp: 8905

Ion Ratio Lower Upper

43 100

72 23.6 21.4 32.0

Instrument :

MSVOA_W

ClientSampled :

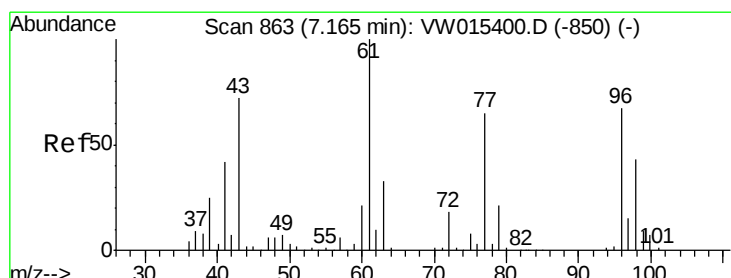
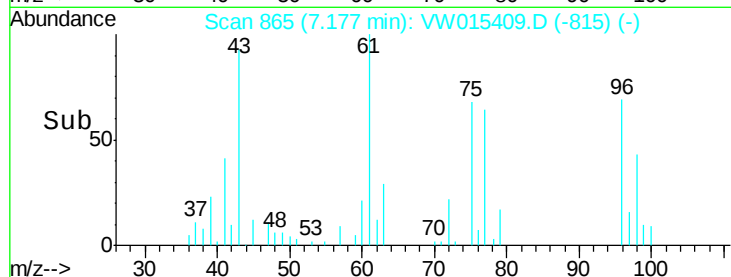
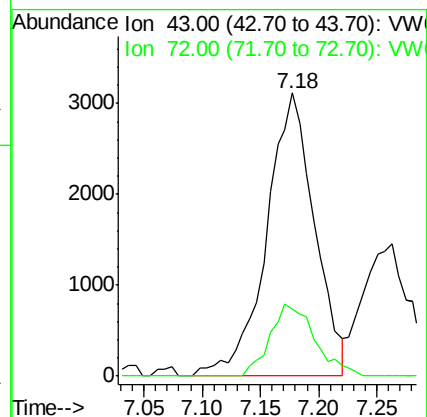
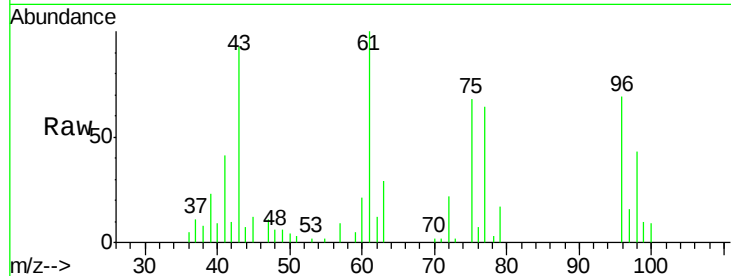
LOD-MDL-SOIL-01-QT2-2020

Manual Integrations

APPROVED

MMDadoda

5/7/2020 10:34:53 AM



#26

2,2-Dichloropropane

Concen: 2.864 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW015409.D

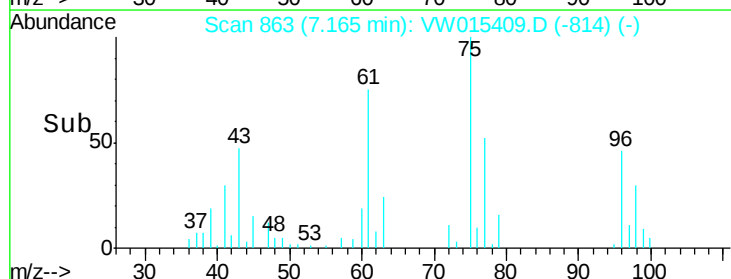
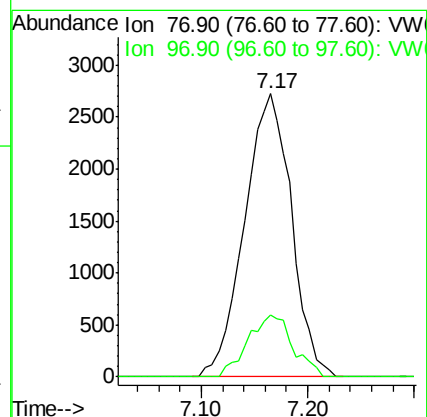
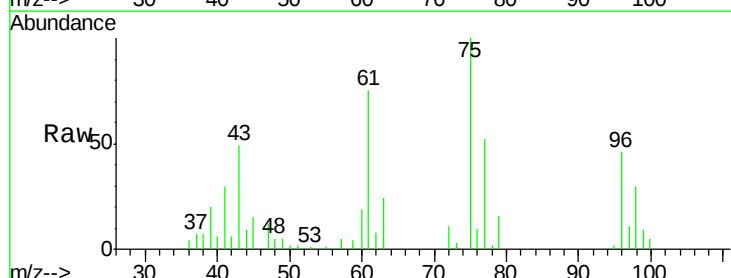
Acq: 06 May 2020 12:23

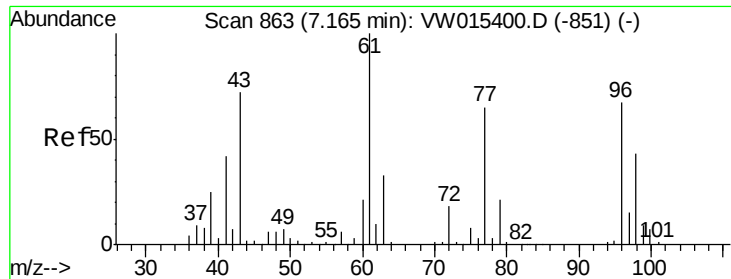
Tgt Ion: 77 Resp: 8393

Ion Ratio Lower Upper

77 100

97 20.8 11.1 33.1





#27

cis-1,2-Dichloroethene

Concen: 2.570 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

Instrument :

MSVOA_W

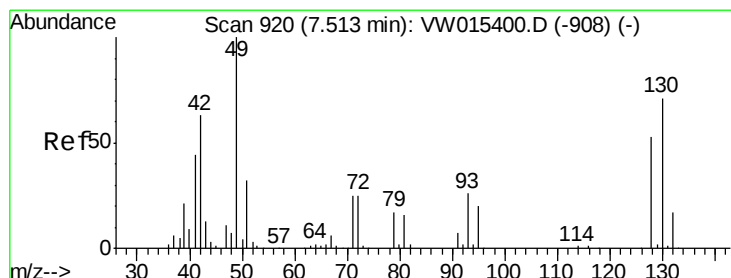
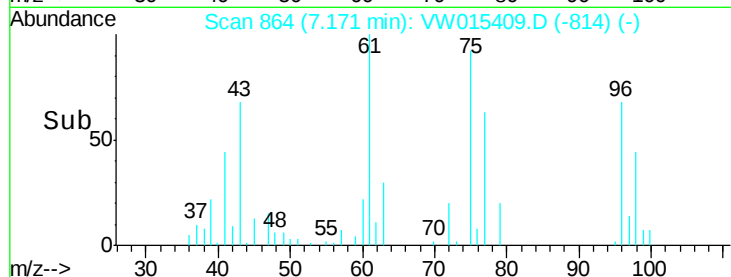
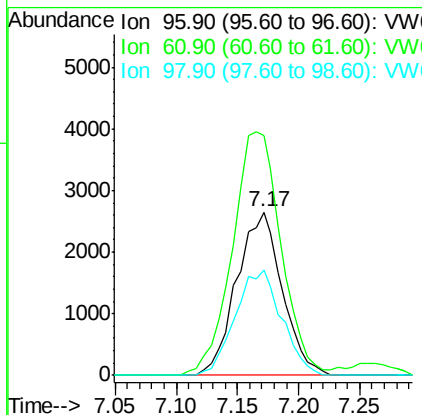
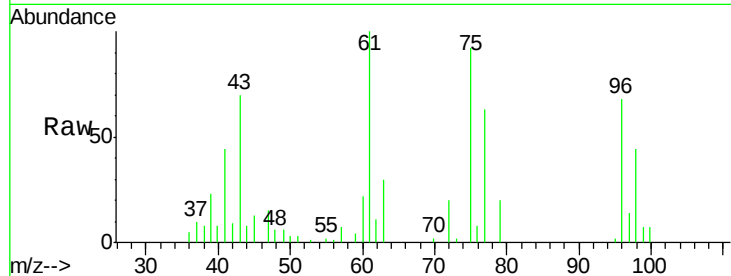
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion:	96	Resp:	6824
Ion	Ratio	Lower	Upper
96	100		
61	159.9	0.0	304.6
98	66.1	0.0	129.2

Manual Integrations
APPROVED

MMDadoda
5/7/2020 10:34:53 AM



#28

Bromochloromethane

Concen: 2.513 ug/l

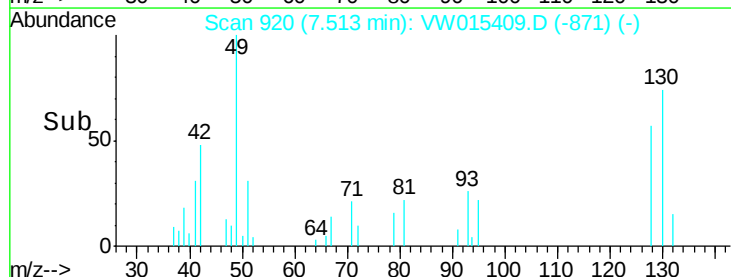
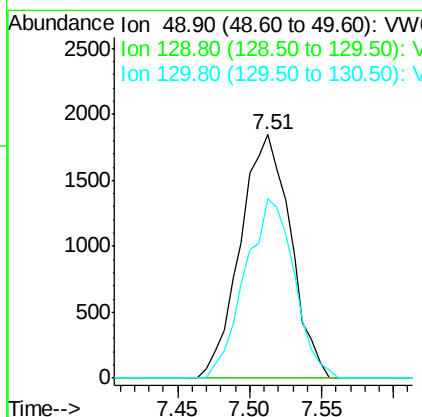
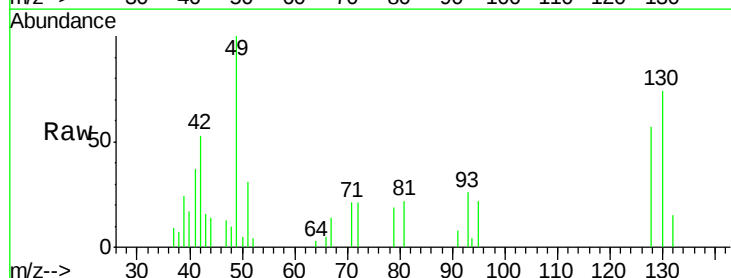
RT: 7.51 min Scan# 920

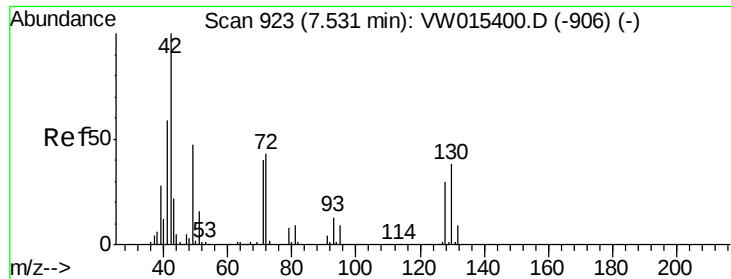
Delta R.T. 0.00 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

Tgt Ion:	49	Resp:	4468
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.0
130	72.2	57.0	85.4





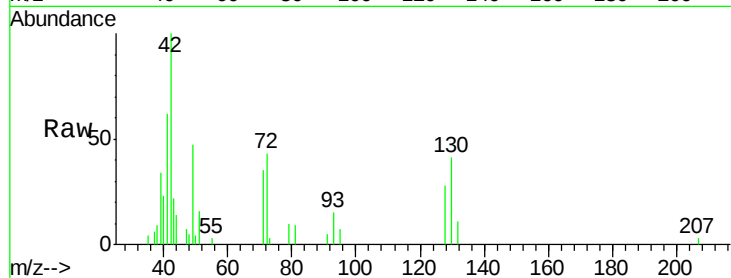
#29
Tetrahydrofuran
Concen: 14.547 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.00 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

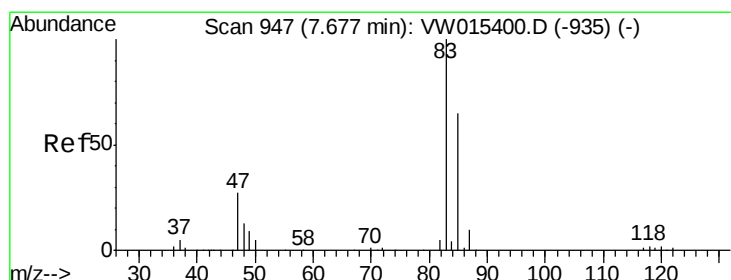
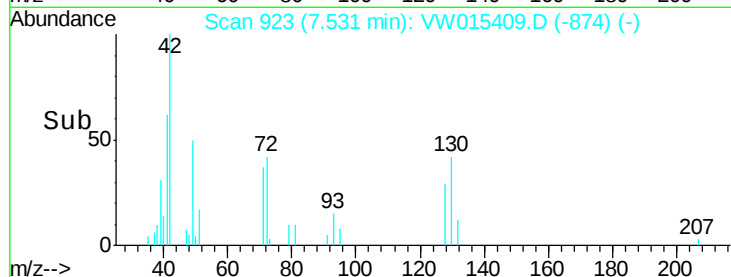
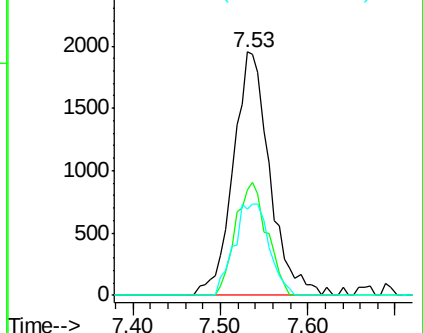
Tot Ion: 42 Resp: 5679
Ion Ratio Lower Upper
42 100
72 39.9 33.6 50.4
71 35.9 32.1 48.1

Manual Integrations
APPROVED

MMDadoda
5/7/2020 10:34:53 AM

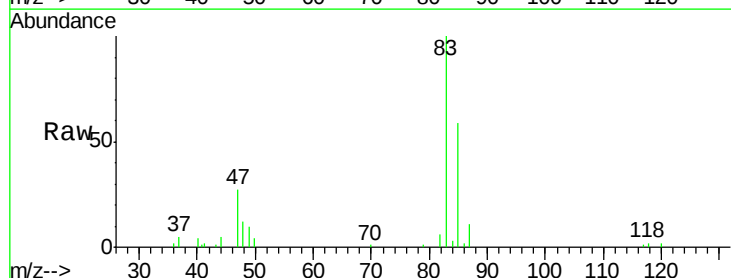


Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW

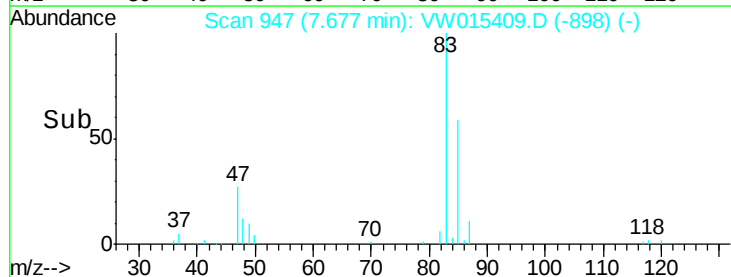
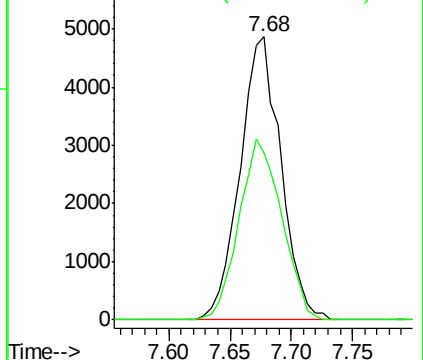


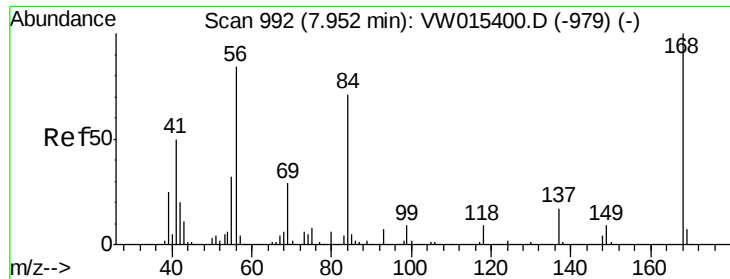
#30
Chloroform
Concen: 2.570 ug/l
RT: 7.68 min Scan# 947
Delta R.T. 0.00 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Tgt Ion: 83 Resp: 11292
Ion Ratio Lower Upper
83 100
85 58.8 51.8 77.6



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





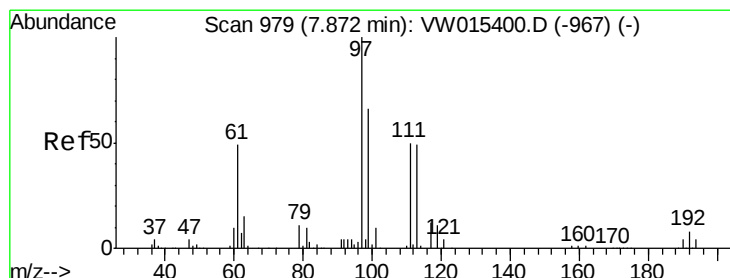
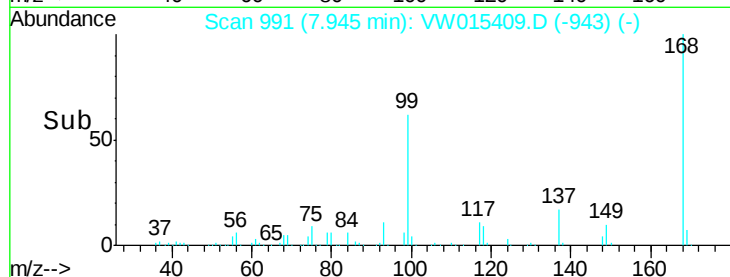
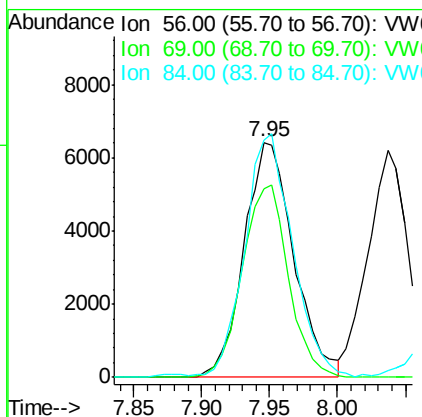
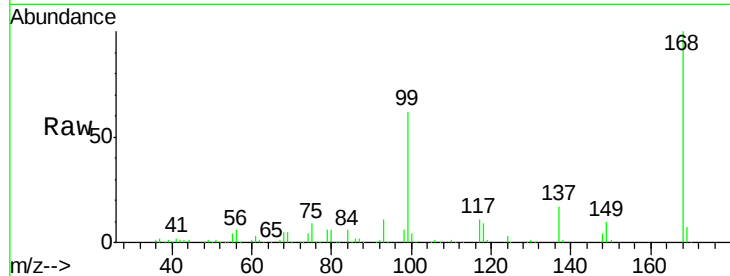
#31
Cyclohexane
Concen: 3.650 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
56	100		
69	80.5	27.2	40.8#
84	100.2	67.7	101.5

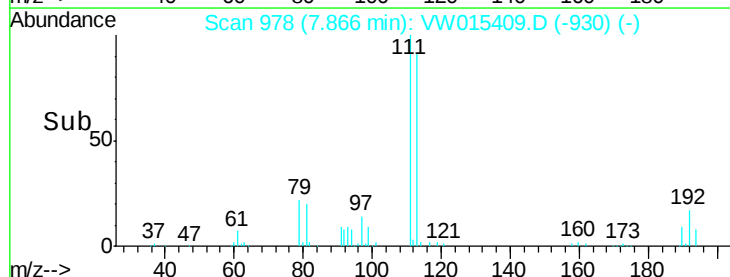
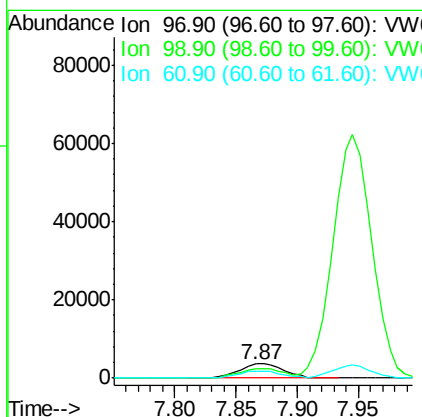
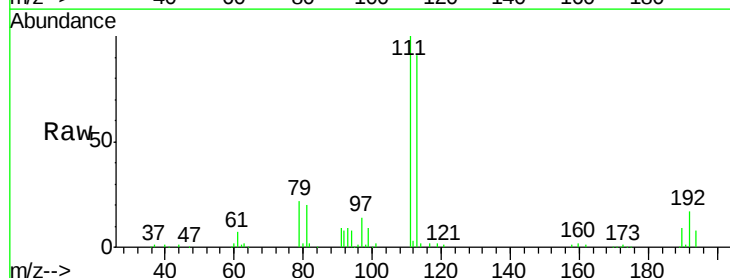
Manual Integrations
APPROVED

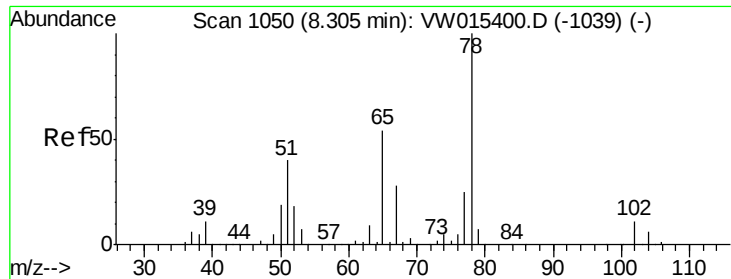
MMDadoda
5/7/2020 10:34:53 AM



#32
1,1,1-Trichloroethane
Concen: 2.538 ug/l
RT: 7.87 min Scan# 978
Delta R.T. -0.01 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.4	50.7	76.1
61	49.7	38.0	57.0





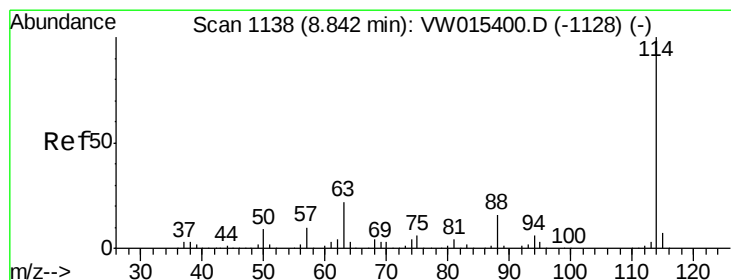
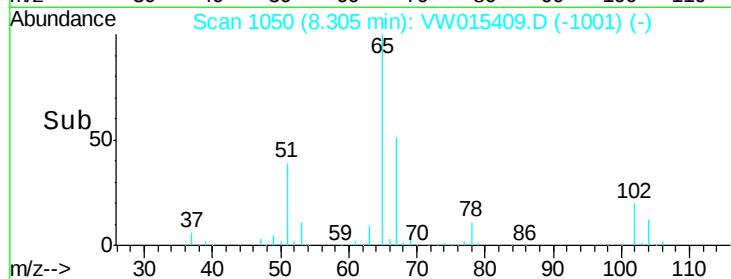
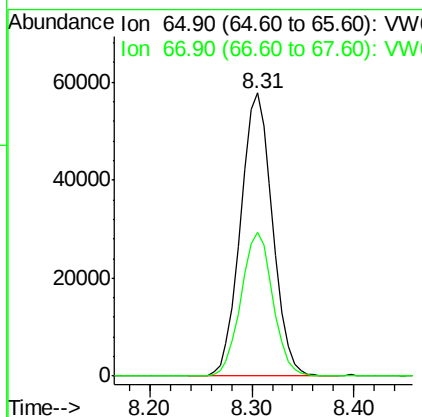
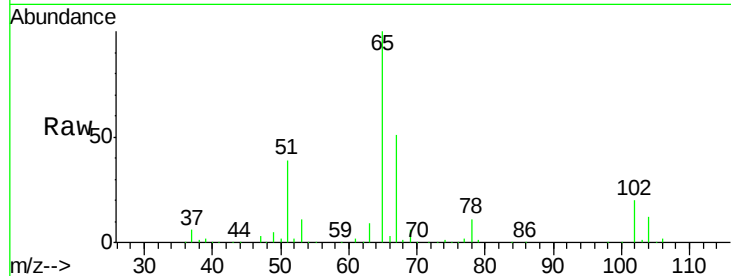
#33
 1,2-Dichloroethane-d4
 Concen: 51.335 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW015409.D
 Acq: 06 May 2020 12:23

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ratio	Resp	Lower	Upper
65	100	125762		
67	50.7	0.0	102.8	

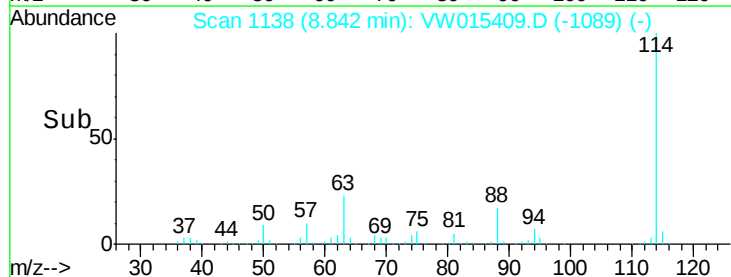
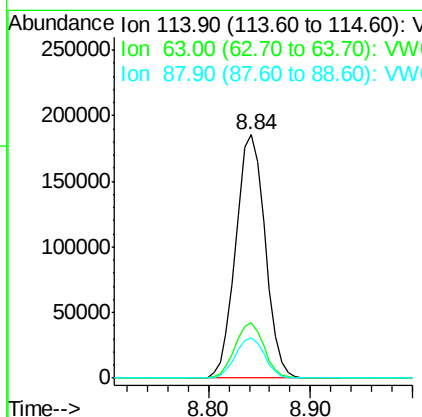
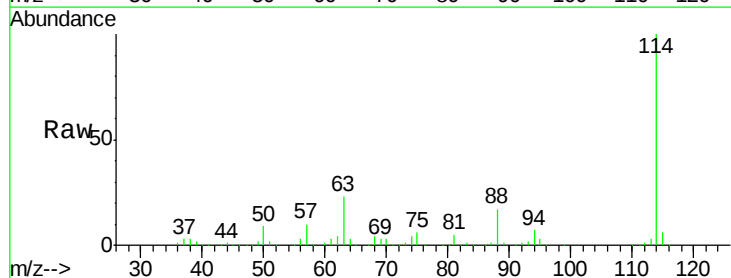
Manual Integrations
 APPROVED

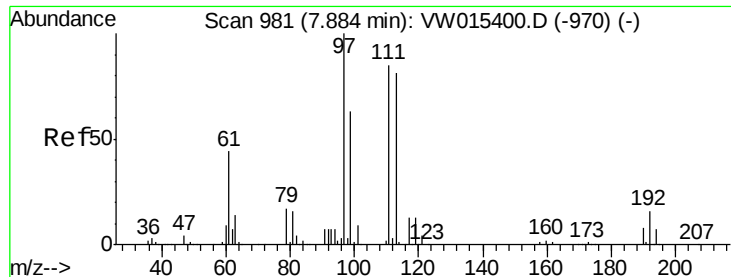
MMDadoda
 5/7/2020 10:34:53 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW015409.D
 Acq: 06 May 2020 12:23

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	369717		
63	22.7	0.0	43.4	
88	16.7	0.0	31.8	





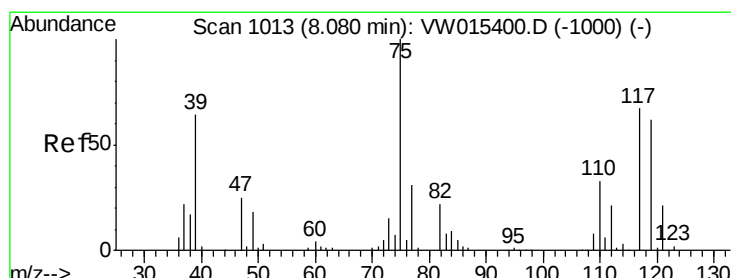
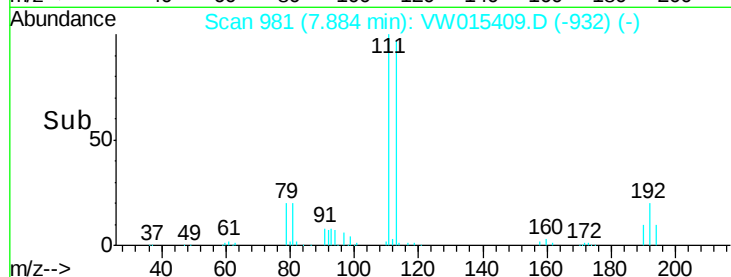
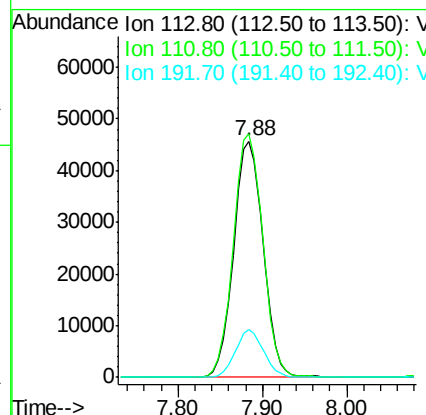
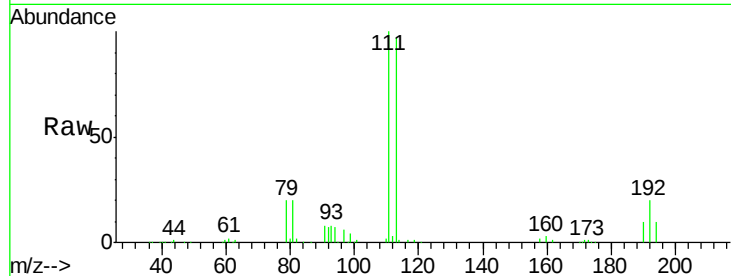
#35
 Dibromofluoromethane
 Concen: 50.877 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW015409.D
 Acq: 06 May 2020 12:23

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ratio	Resp	Lower	Upper
113	100	107963		
111	103.4	82.9	124.3	
192	19.2	15.4	23.0	

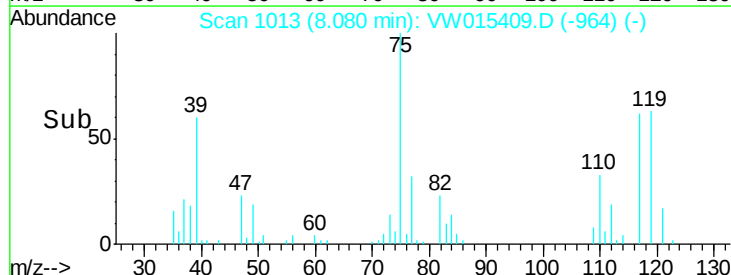
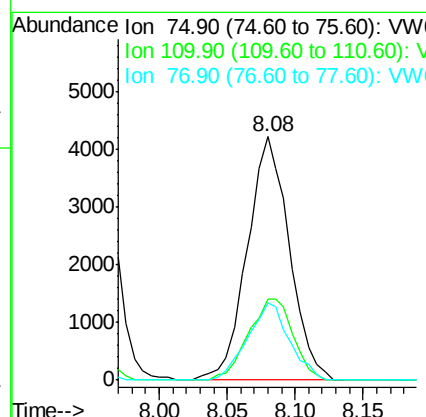
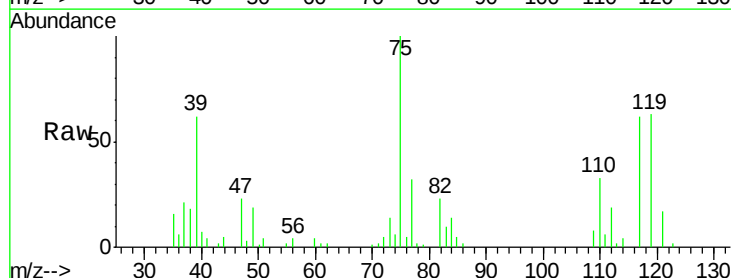
Manual Integrations
 APPROVED

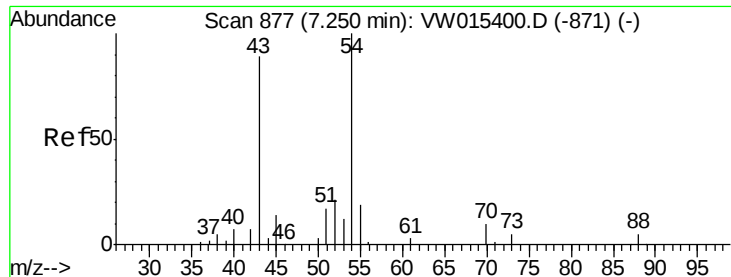
MMDadoda
 5/7/2020 10:34:53 AM



#36
 1,1-Dichloropropene
 Concen: 2.511 ug/l
 RT: 8.08 min Scan# 1013
 Delta R.T. 0.00 min
 Lab File: VW015409.D
 Acq: 06 May 2020 12:23

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	9122		
110	35.1	16.6	49.8	
77	31.5	24.5	36.7	





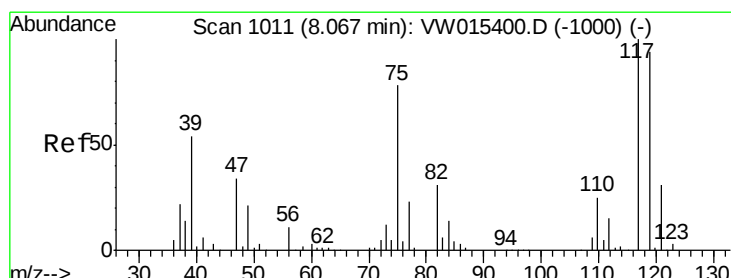
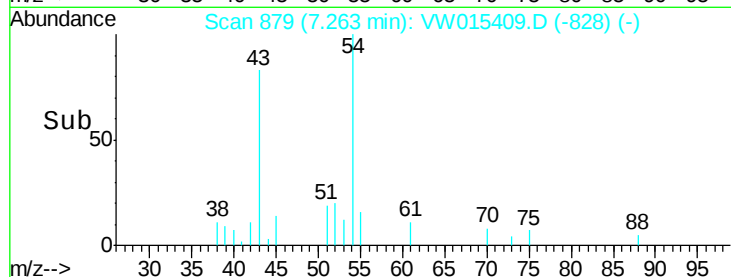
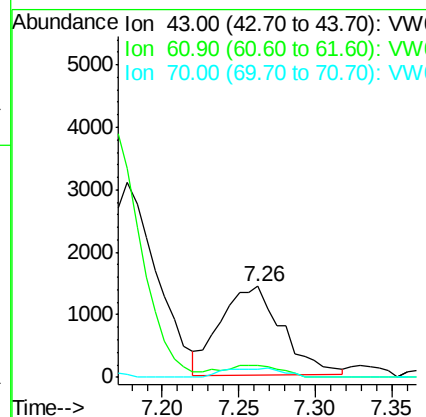
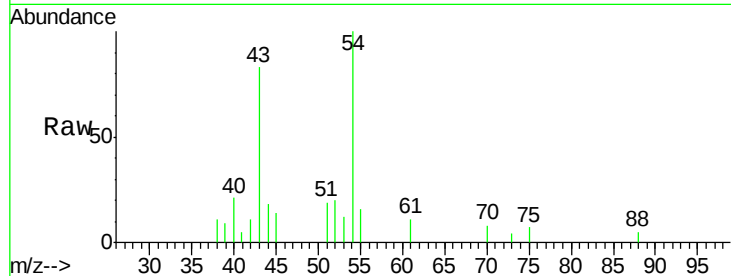
#37
Ethyl Acetate
Concen: 2.837 ug/l
RT: 7.26 min Scan# 879
Delta R.T. 0.01 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.9	10.2	15.2
70	9.7	8.0	12.0

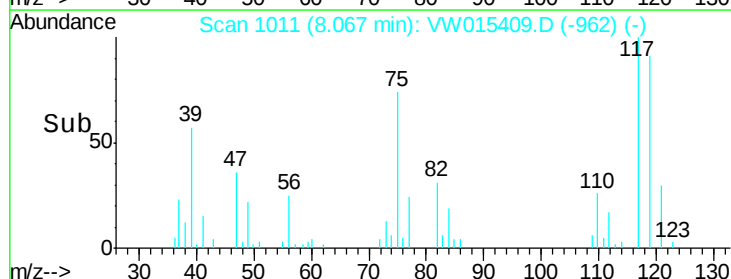
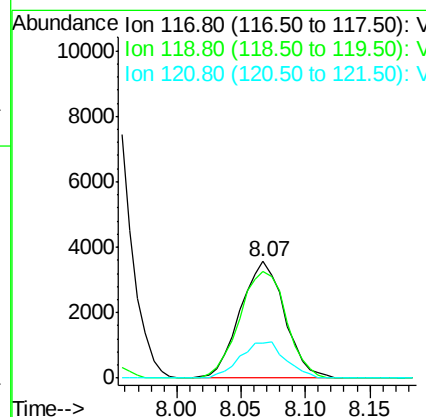
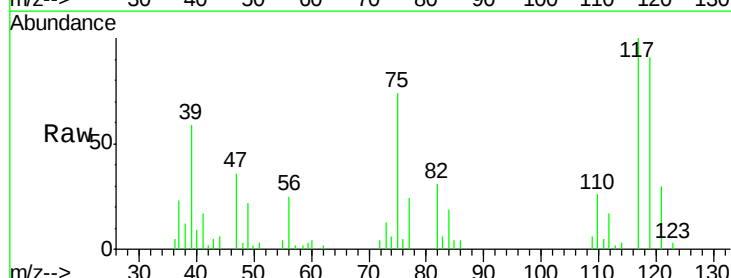
Manual Integrations
APPROVED

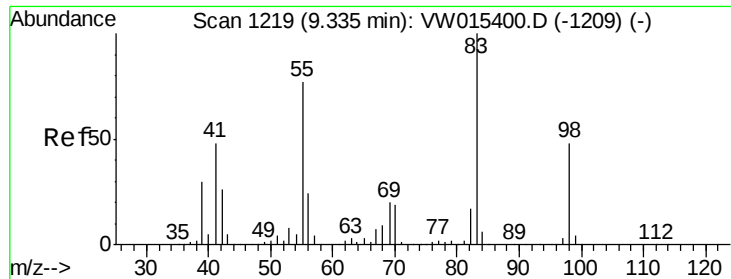
MMDadoda
5/7/2020 10:34:53 AM



#38
Carbon Tetrachloride
Concen: 2.512 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. 0.00 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Tgt Ion	Ratio	Lower	Upper
117	100		
119	91.0	75.4	113.0
121	30.5	24.8	37.2





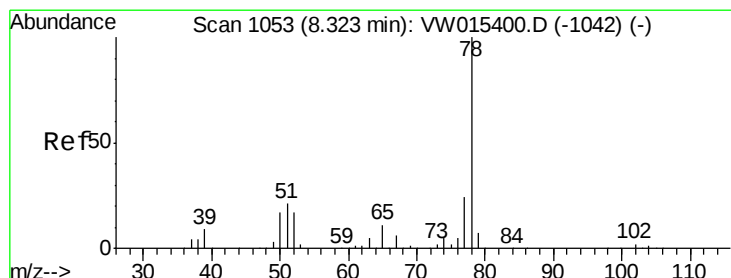
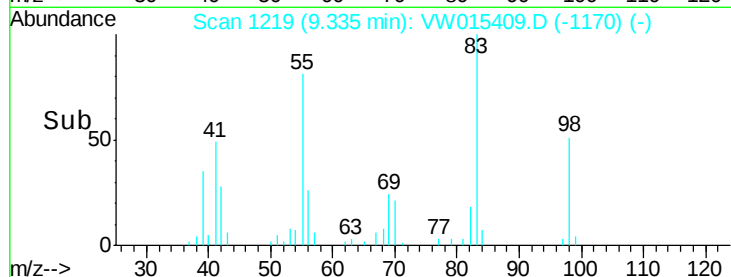
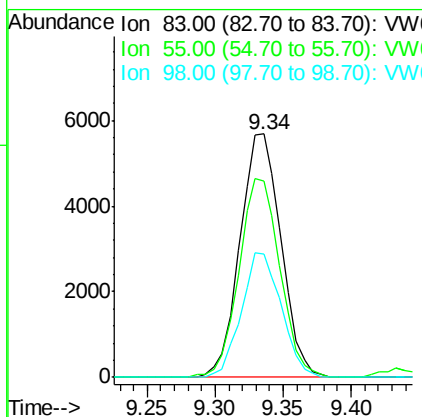
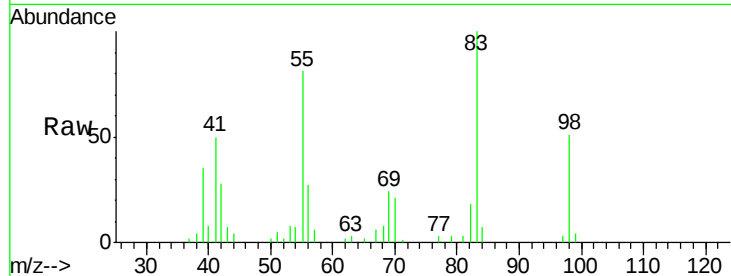
#39
Methvlcvclohexane
Concen: 2.610 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
83	100		
55	80.5	61.9	92.9
98	50.5	38.2	57.2

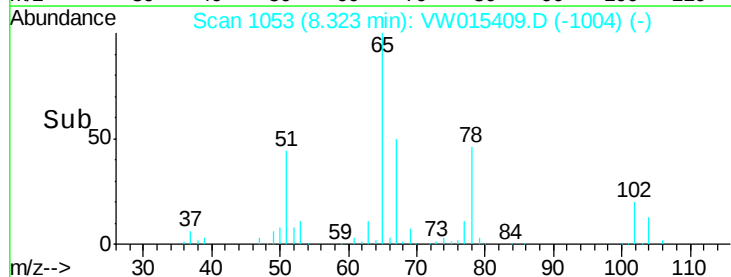
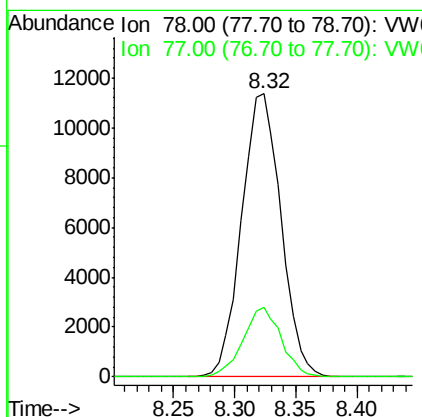
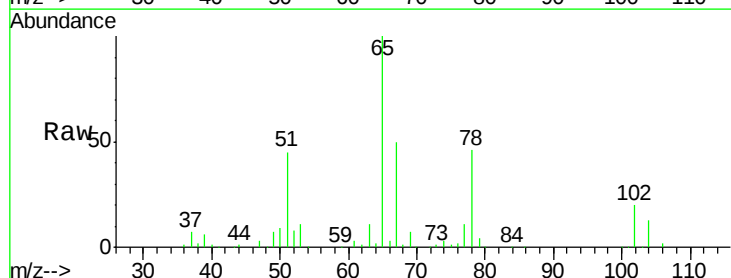
Manual Integrations
APPROVED

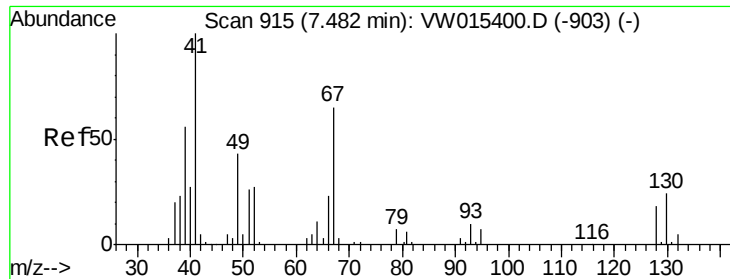
MMDadoda
5/7/2020 10:34:53 AM



#40
Benzene
Concen: 2.568 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. 0.00 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.0	28.4





#41

Methacrylonitrile

Concen: 2.448 ug/l

RT: 7.48 min Scan# 915

Delta R.T. 0.00 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

Instrument :

MSVOA_W

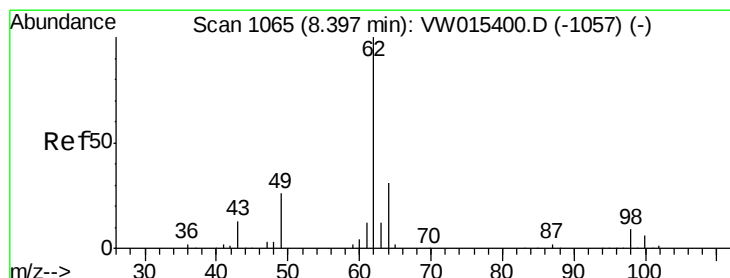
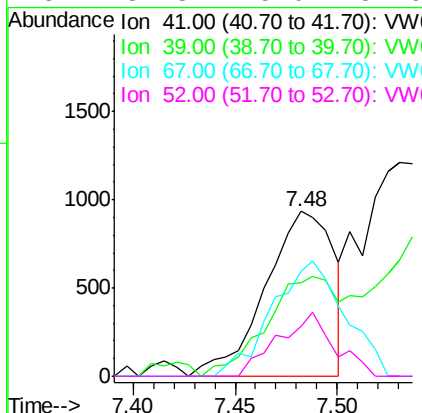
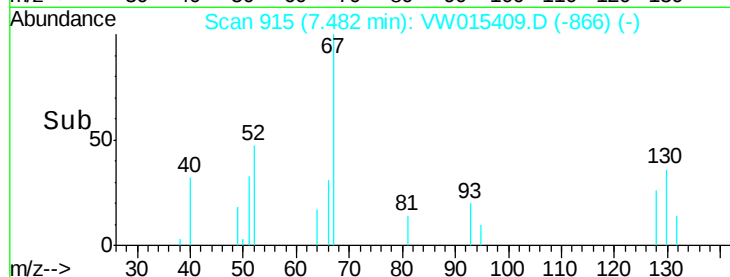
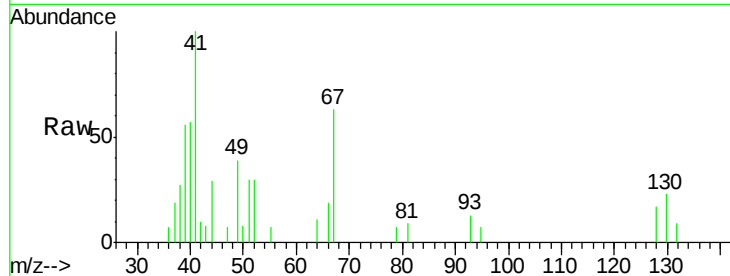
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion:	41	Resp:	2180
Ion	Ratio	Lower	Upper
41	100		
39	76.4	46.2	69.4#
67	74.4	56.2	84.2
52	31.8	25.0	37.6

Manual Integrations
APPROVED

MMDadoda
5/7/2020 10:34:53 AM



#42

1,2-Dichloroethane

Concen: 2.715 ug/l

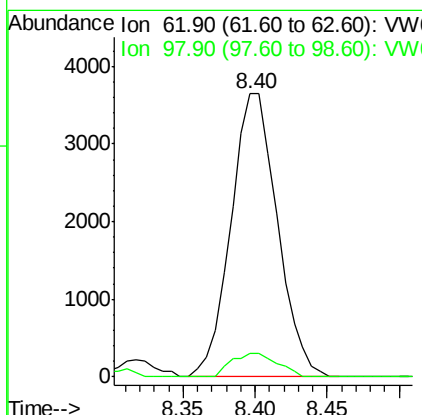
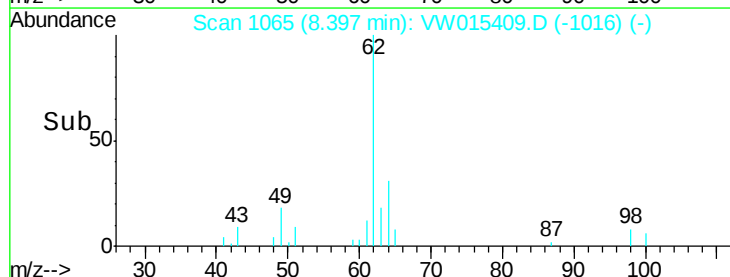
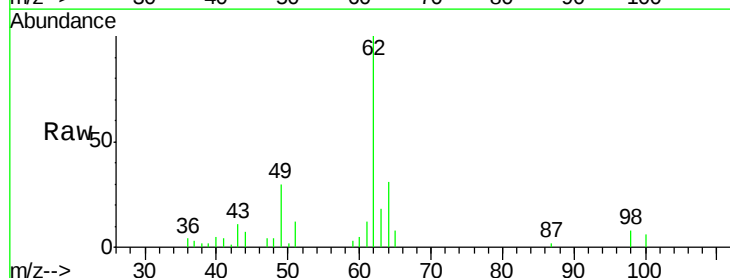
RT: 8.40 min Scan# 1065

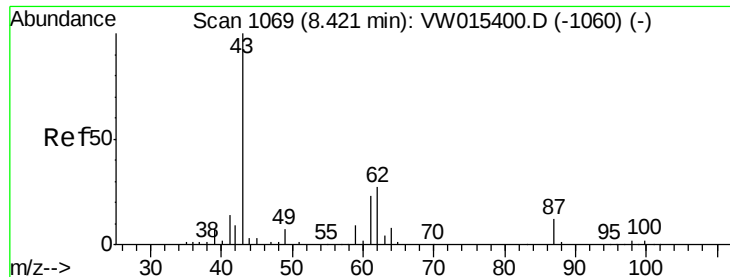
Delta R.T. 0.00 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

Tgt Ion:	62	Resp:	8192
Ion	Ratio	Lower	Upper
62	100		
98	8.2	0.0	17.6





#43

Isopropyl Acetate

Concen: 2.707 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

Instrument :

MSVOA_W

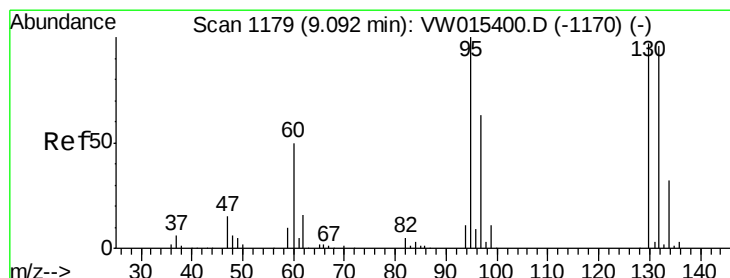
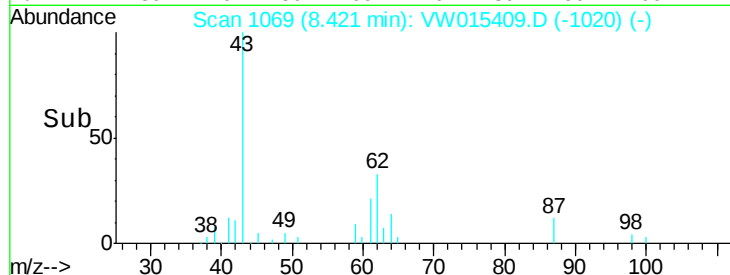
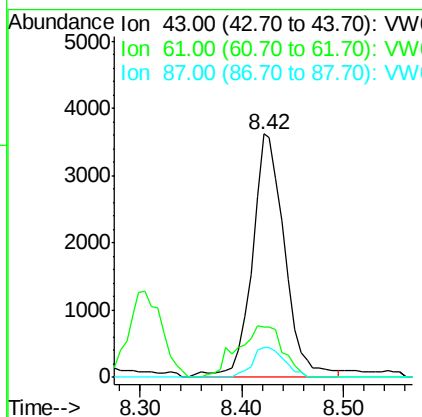
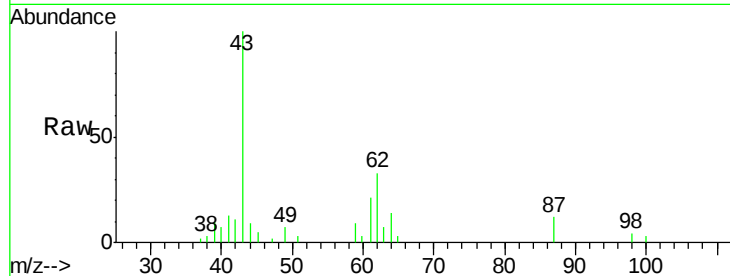
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion:	43	Resp:	8024
Ion	Ratio	Lower	Upper
43	100		
61	29.4	24.3	36.5
87	12.0	10.1	15.1

Manual Integrations
APPROVED

MMDadoda
5/7/2020 10:34:53 AM



#44

Trichloroethene

Concen: 2.586 ug/l

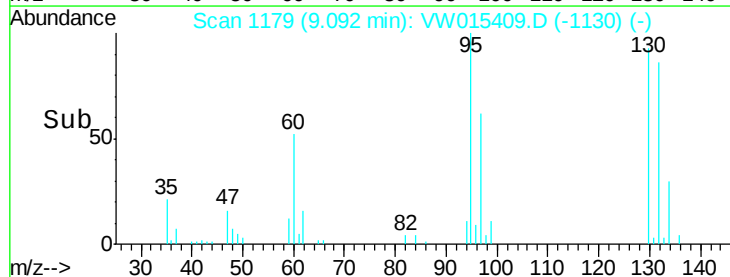
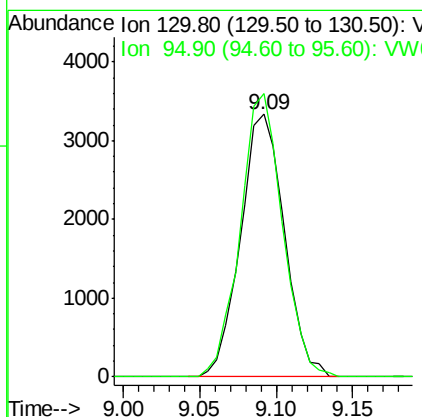
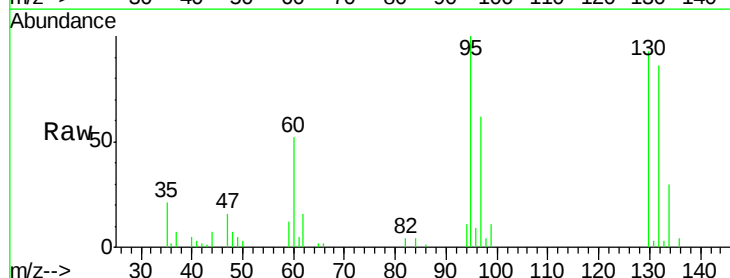
RT: 9.09 min Scan# 1179

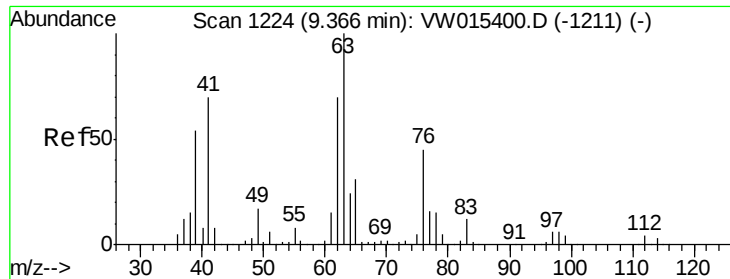
Delta R.T. 0.00 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

Tgt Ion:	130	Resp:	6640
Ion	Ratio	Lower	Upper
130	100		
95	107.8	0.0	205.8





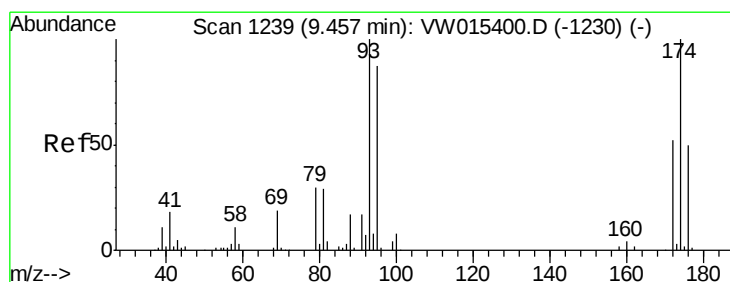
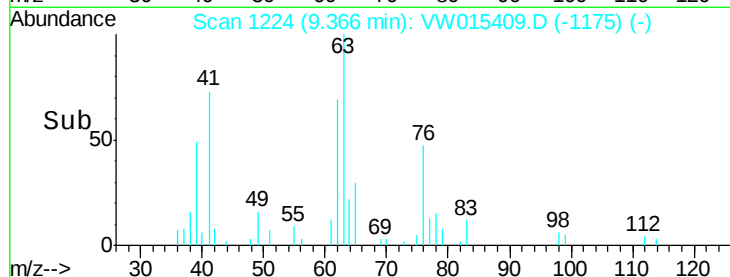
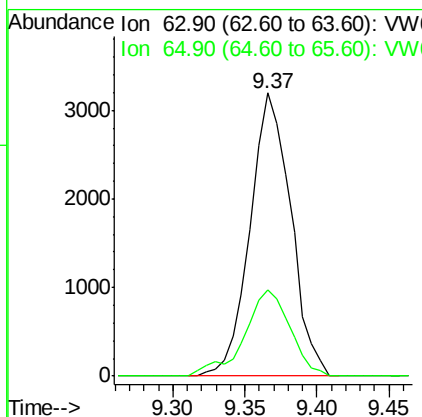
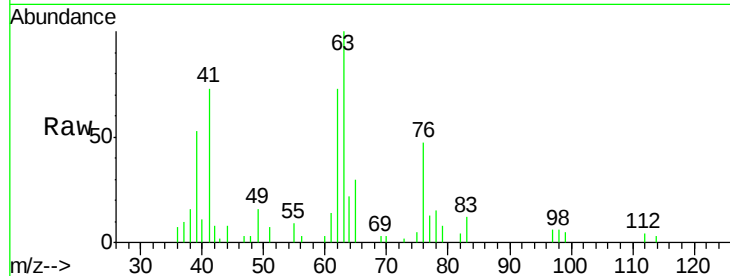
#45
 1,2-Dichloropropane
 Concen: 2.555 ug/l
 RT: 9.37 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: VW015409.D
 Acq: 06 May 2020 12:23

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2020

Tot Ion: 63 Resp: 6252
 Ion Ratio Lower Upper
 63 100
 65 30.3 25.0 37.6

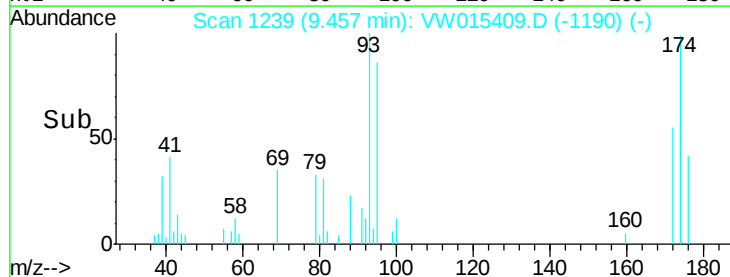
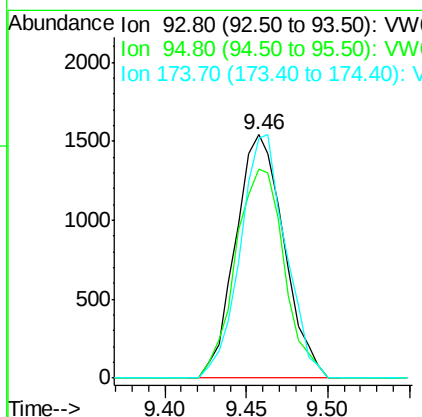
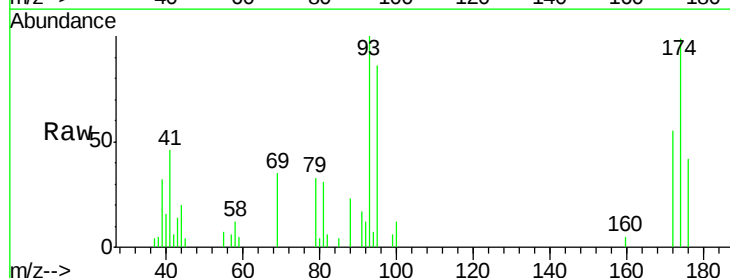
Manual Integrations
 APPROVED

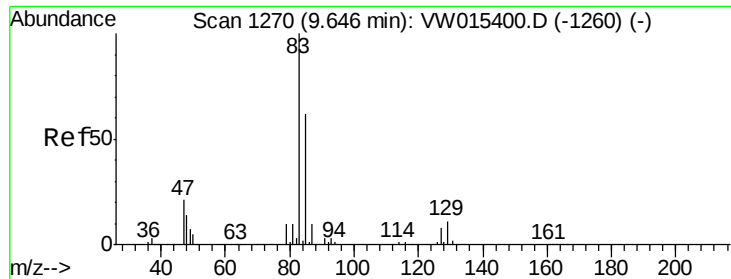
MMDadoda
 5/7/2020 10:34:53 AM



#46
 Dibromomethane
 Concen: 2.603 ug/l
 RT: 9.46 min Scan# 1239
 Delta R.T. 0.00 min
 Lab File: VW015409.D
 Acq: 06 May 2020 12:23

Tgt Ion: 93 Resp: 3168
 Ion Ratio Lower Upper
 93 100
 95 86.6 67.0 100.4
 174 93.9 78.4 117.6





#47

Bromodichloromethane

Concen: 2.524 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

Instrument :

MSVOA_W

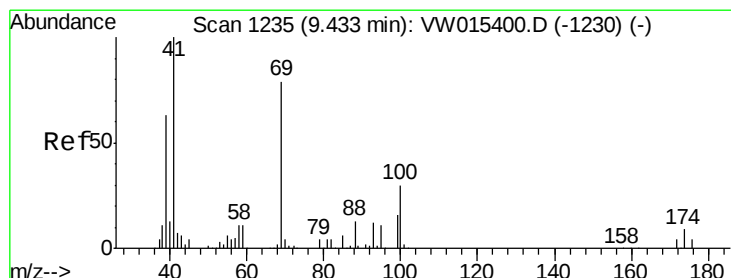
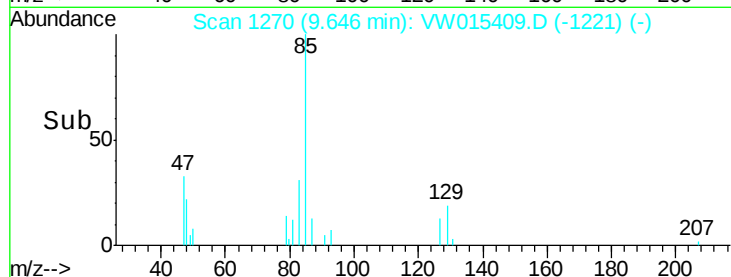
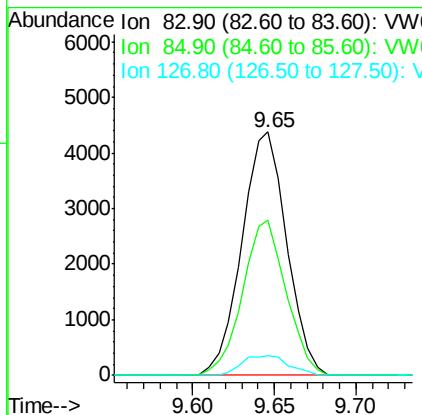
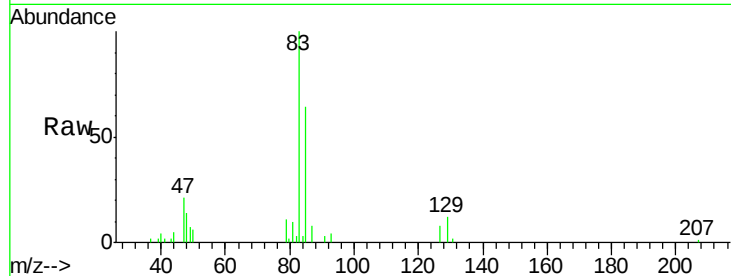
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion:	83	Resp:	8372
Ion	Ratio	Lower	Upper
83	100		
85	63.8	49.4	74.0
127	8.2	6.4	9.6

Manual Integrations
APPROVED

MMDadoda
5/7/2020 10:34:53 AM



#48

Methyl methacrylate

Concen: 2.604 ug/l

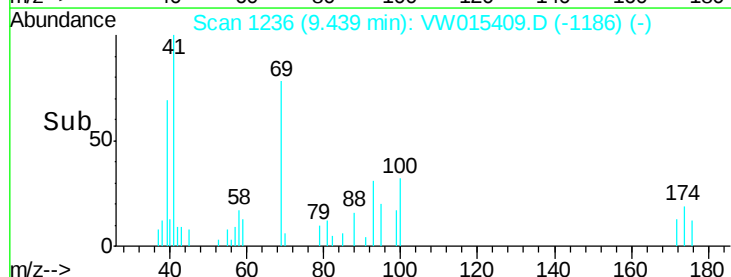
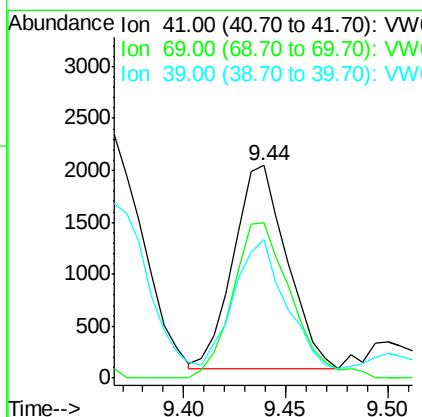
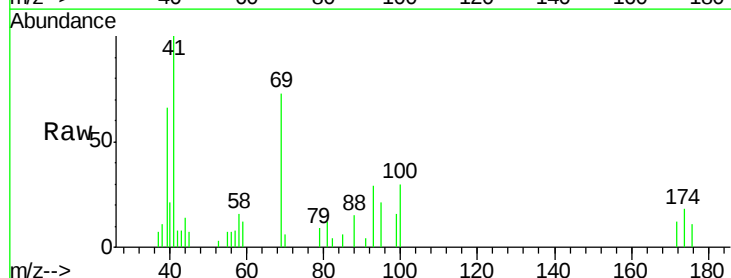
RT: 9.44 min Scan# 1236

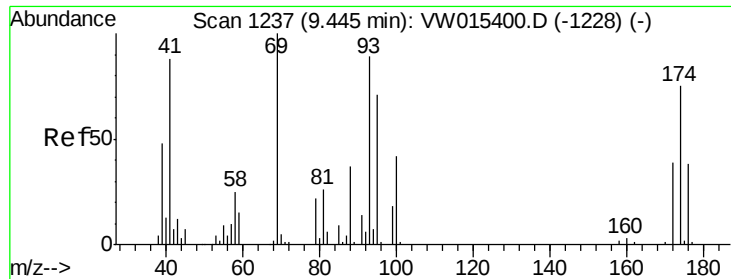
Delta R.T. 0.01 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

Tgt Ion:	41	Resp:	3565
Ion	Ratio	Lower	Upper
41	100		
69	83.9	66.2	99.4
39	60.7	51.1	76.7





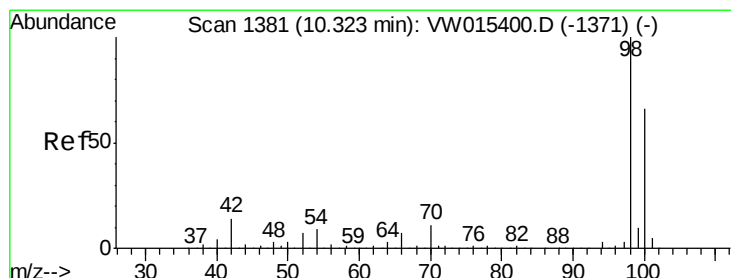
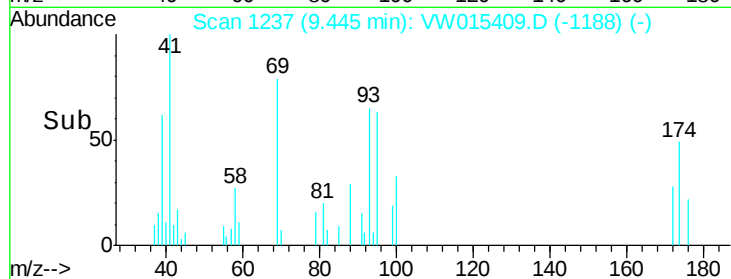
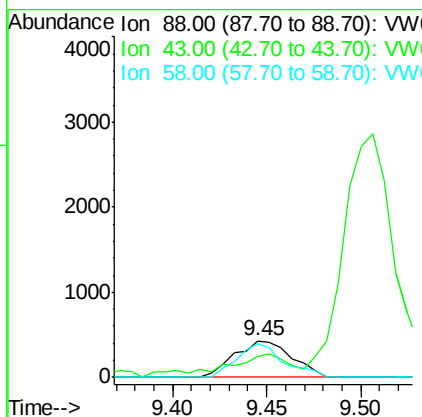
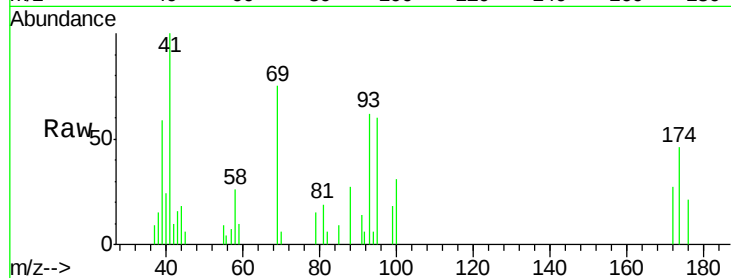
#49
1,4-Dioxane
Concen: 59.341 ug/l
RT: 9.45 min Scan# 1237
Delta R.T. 0.00 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
88	100		
43	73.6	30.6	45.8#
58	75.0	56.3	84.5

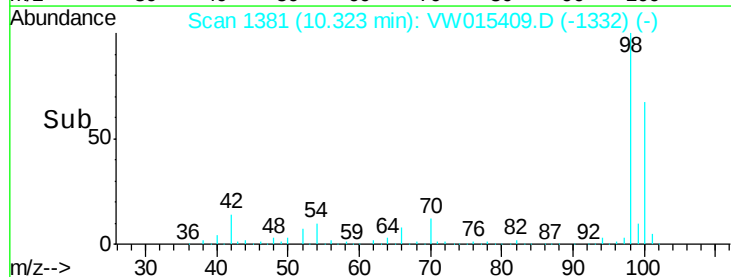
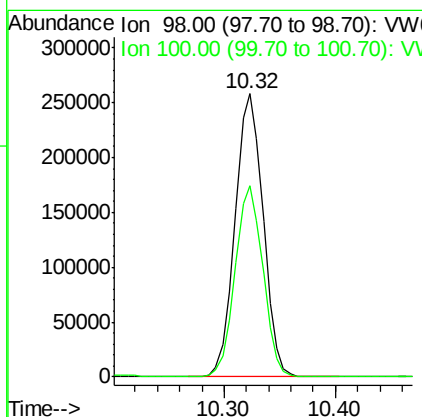
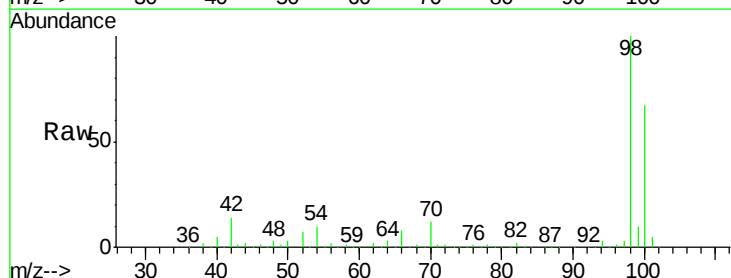
Manual Integrations
APPROVED

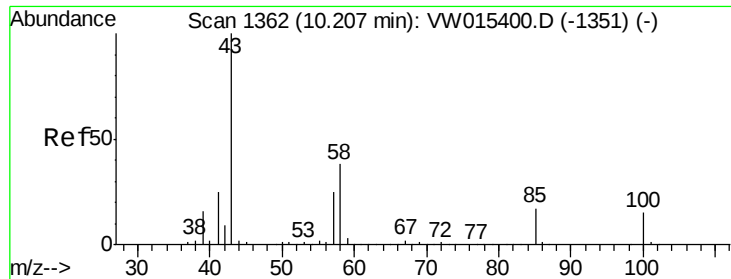
MMDadoda
5/7/2020 10:34:53 AM



#50
Toluene-d8
Concen: 51.233 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.6	52.7	79.1





#51

4-Methyl-2-Pentanone

Concen: 13.656 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion: 43 Resp: 18970

Ion Ratio Lower Upper

43 100

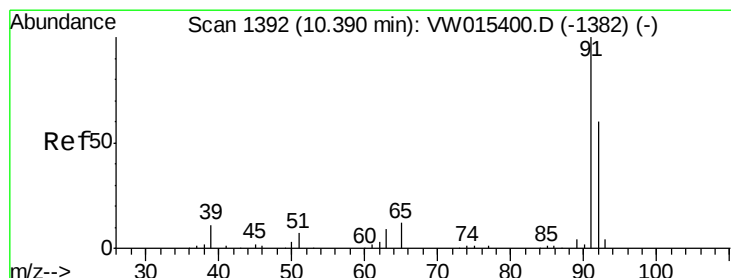
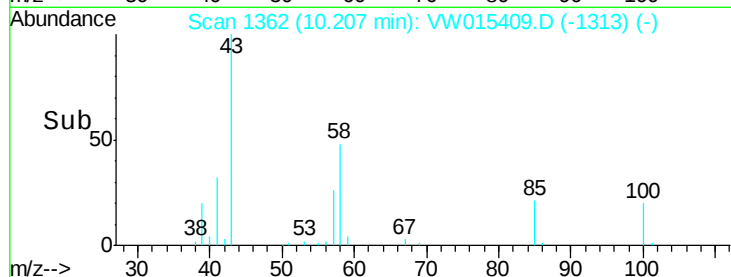
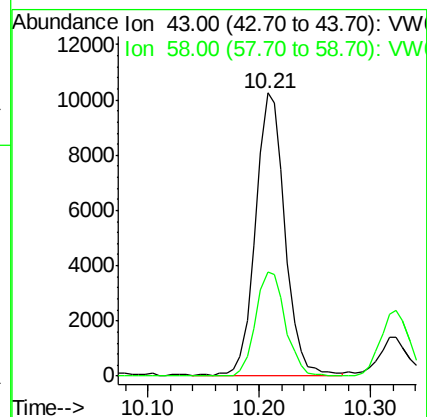
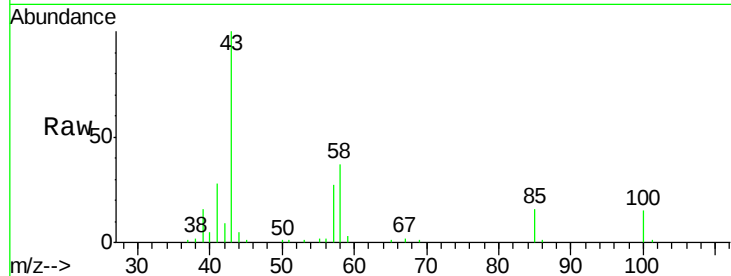
58 36.8 30.8 46.2

Manual Integrations

APPROVED

MMDadoda

5/7/2020 10:34:53 AM



#52

Toluene

Concen: 2.630 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW015409.D

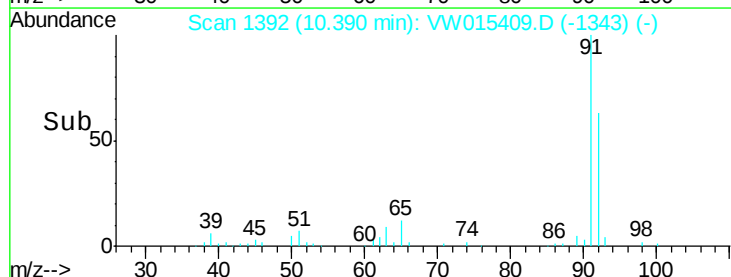
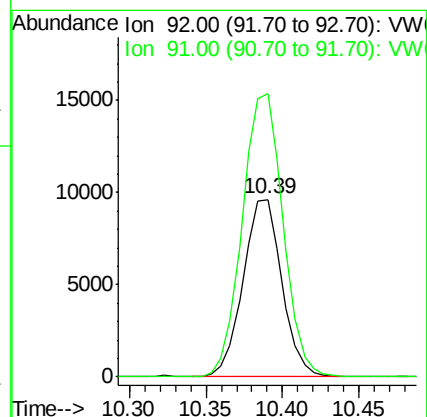
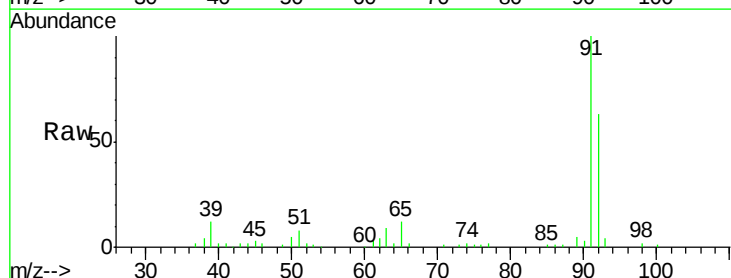
Acq: 06 May 2020 12:23

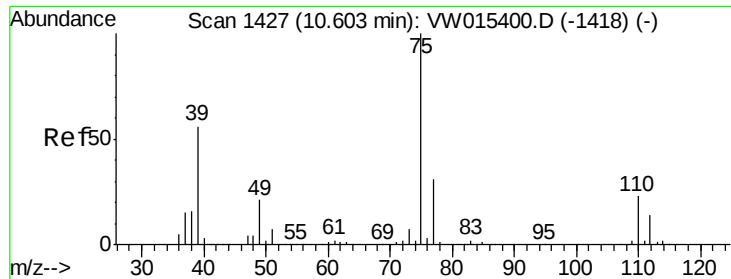
Tgt Ion: 92 Resp: 16929

Ion Ratio Lower Upper

92 100

91 167.9 135.9 203.9





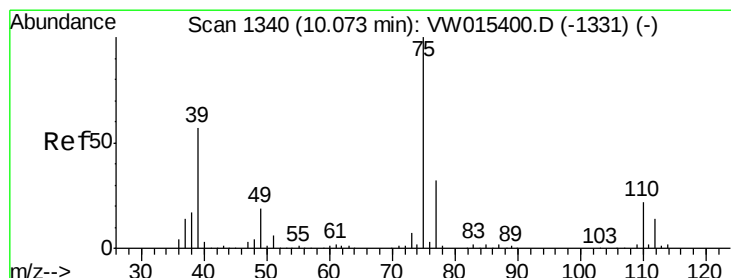
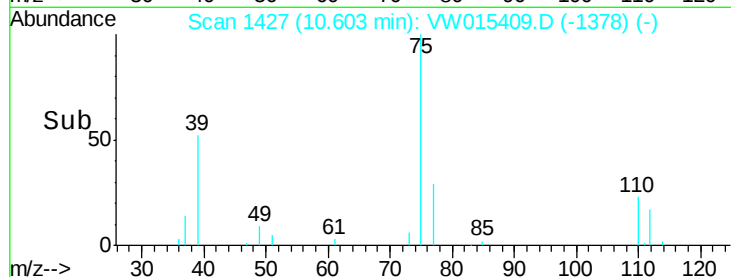
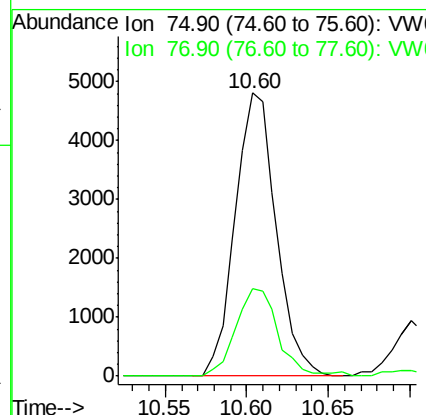
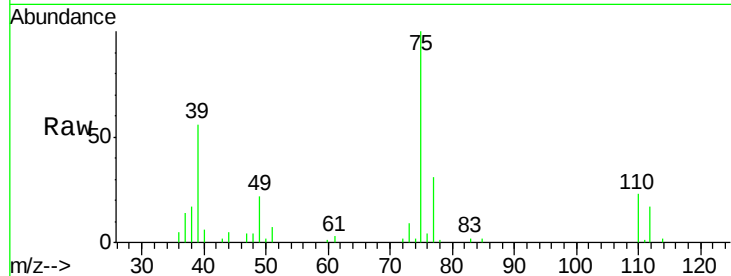
#53
 t-1,3-Dichloropropene
 Concen: 2.480 ug/l
 RT: 10.60 min Scan# 1427
 Delta R.T. 0.00 min
 Lab File: VW015409.D
 Acq: 06 May 2020 12:23

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2020

Tot Ion: 75 Resp: 8399
 Ion Ratio Lower Upper
 75 100
 77 30.8 24.9 37.3

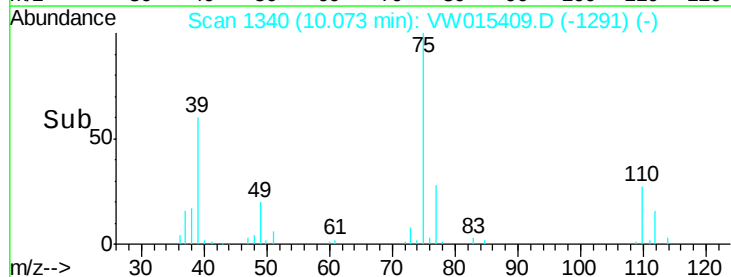
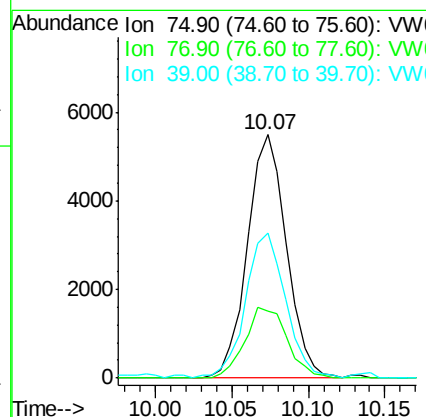
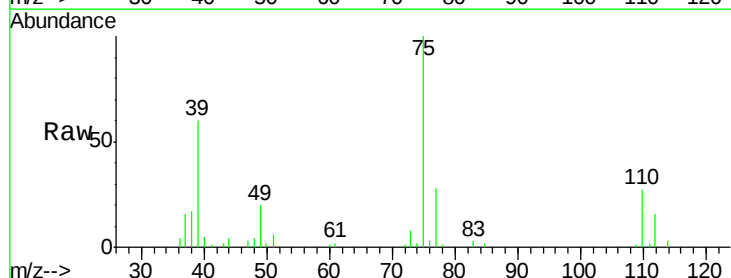
Manual Integrations
 APPROVED

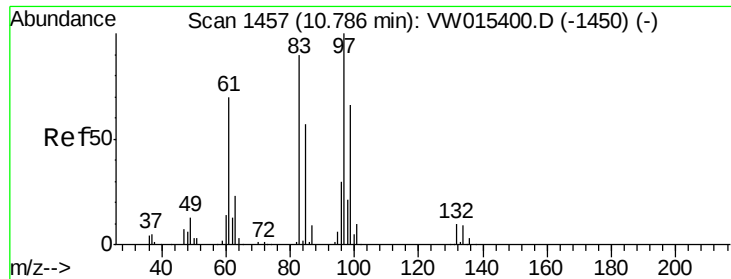
MMDadoda
 5/7/2020 10:34:53 AM



#54
 cis-1,3-Dichloropropene
 Concen: 2.447 ug/l
 RT: 10.07 min Scan# 1340
 Delta R.T. 0.00 min
 Lab File: VW015409.D
 Acq: 06 May 2020 12:23

Tgt Ion: 75 Resp: 9757
 Ion Ratio Lower Upper
 75 100
 77 27.5 25.6 38.4
 39 59.8 45.6 68.4





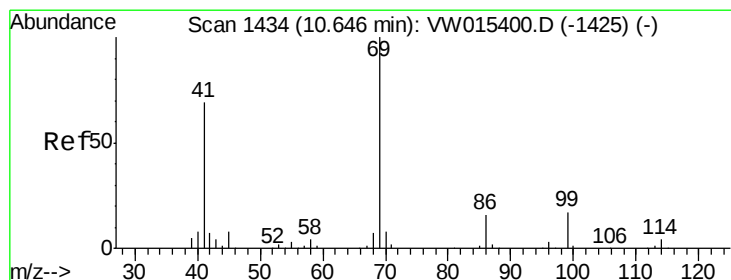
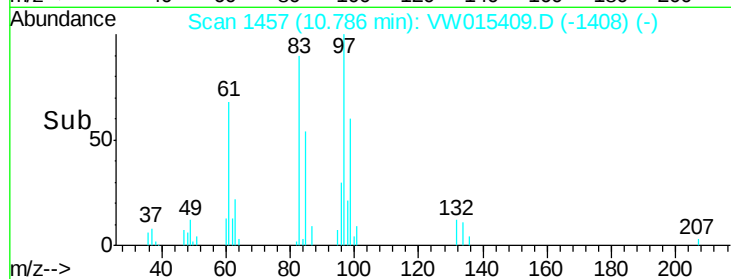
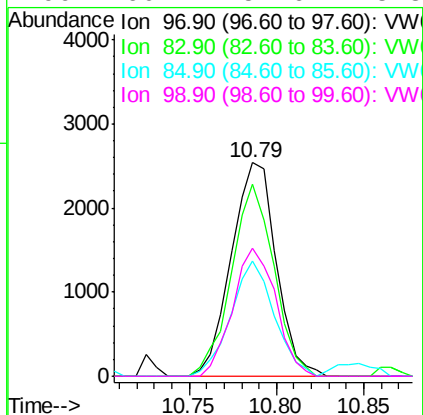
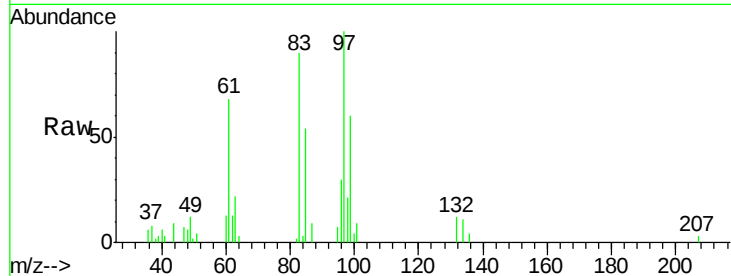
#55
 1,1,2-Trichloroethane
 Concen: 2.635 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. 0.00 min
 Lab File: VW015409.D
 Acq: 06 May 2020 12:23

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2020

Tot Ion:	97	Resp:	4536
Ion	Ratio	Lower	Upper
97	100		
83	90.0	72.2	108.4
85	54.2	45.2	67.8
99	60.1	52.6	78.8

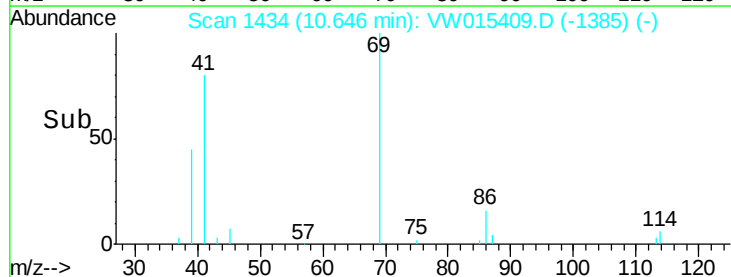
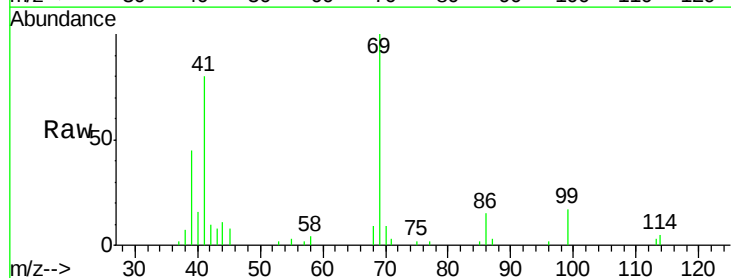
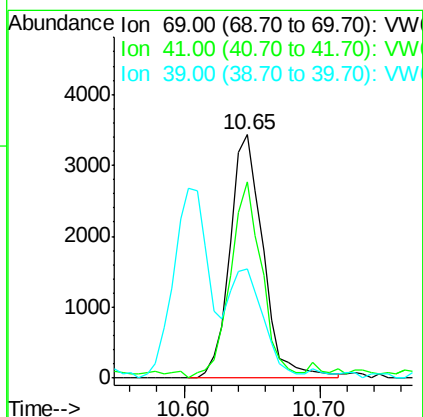
Manual Integrations
 APPROVED

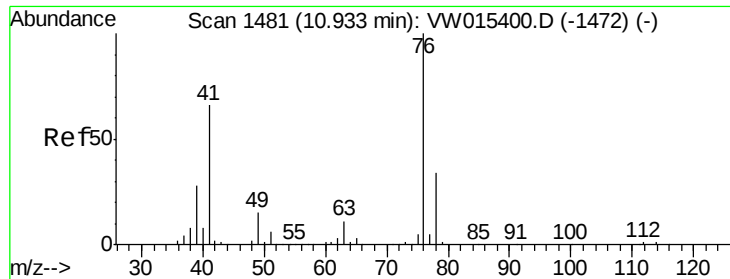
MMDadoda
 5/7/2020 10:34:53 AM



#56
 Ethyl methacrylate
 Concen: 2.472 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. 0.00 min
 Lab File: VW015409.D
 Acq: 06 May 2020 12:23

Tgt Ion:	69	Resp:	5846
Ion	Ratio	Lower	Upper
69	100		
41	76.9	55.3	82.9
39	42.3	31.9	47.9





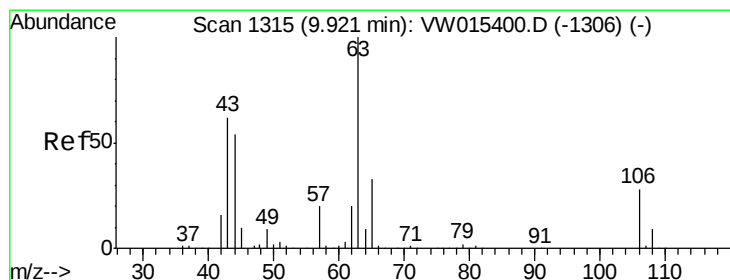
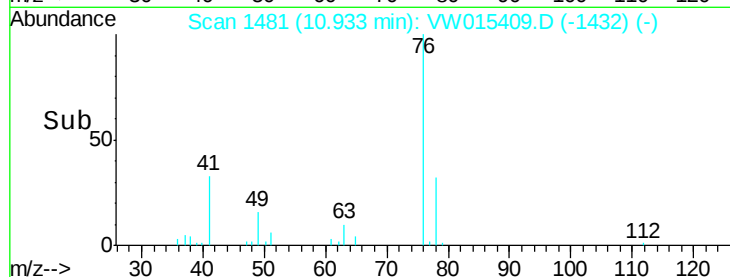
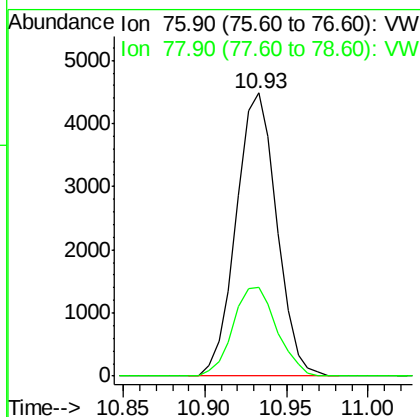
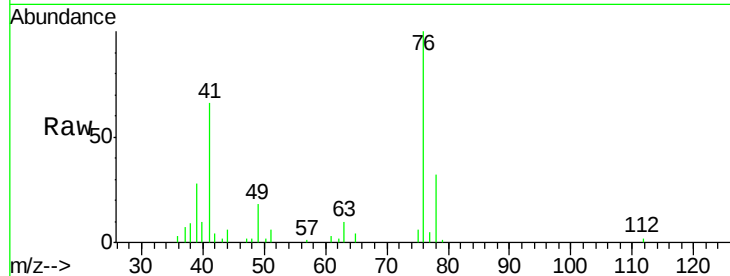
#57
 1,3-Dichloropropane
 Concen: 2.511 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. 0.00 min
 Lab File: VW015409.D
 Acq: 06 May 2020 12:23

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2020

Tot Ion: 76 Resp: 7771
 Ion Ratio Lower Upper
 76 100
 78 33.9 26.3 39.5

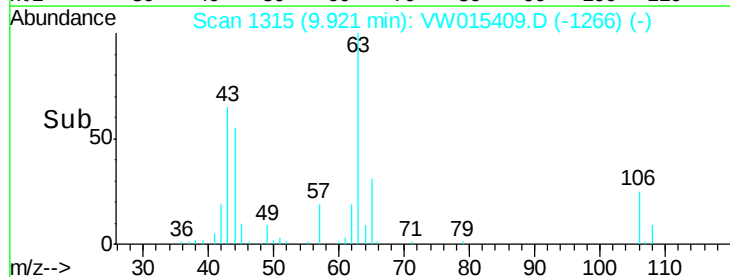
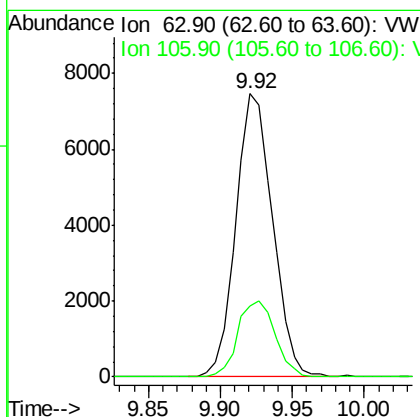
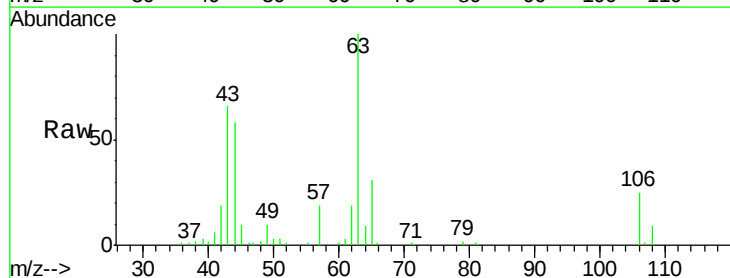
Manual Integrations
 APPROVED

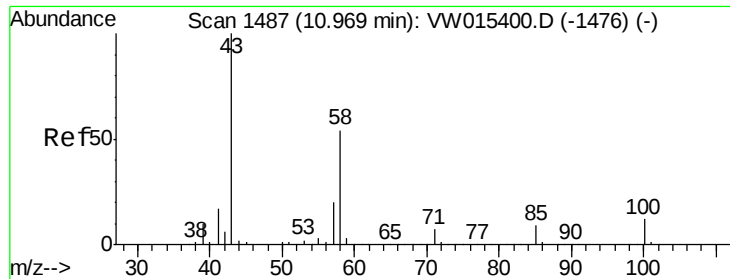
MMDadoda
 5/7/2020 10:34:53 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 11.509 ug/l
 RT: 9.92 min Scan# 1315
 Delta R.T. 0.00 min
 Lab File: VW015409.D
 Acq: 06 May 2020 12:23

Tgt Ion: 63 Resp: 13242
 Ion Ratio Lower Upper
 63 100
 106 27.2 22.6 33.8





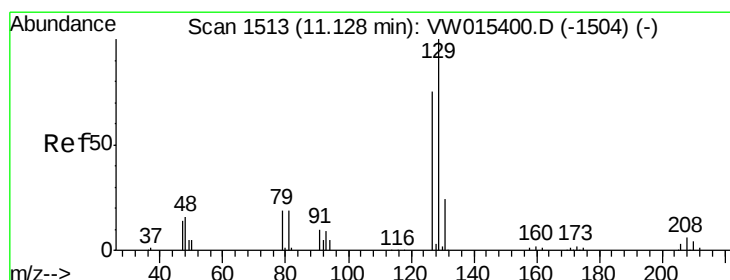
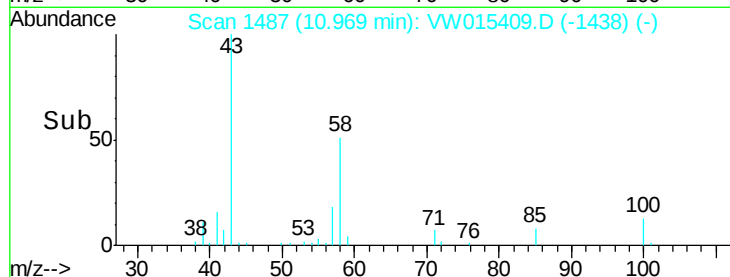
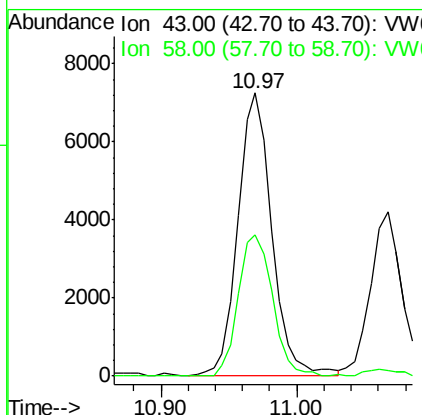
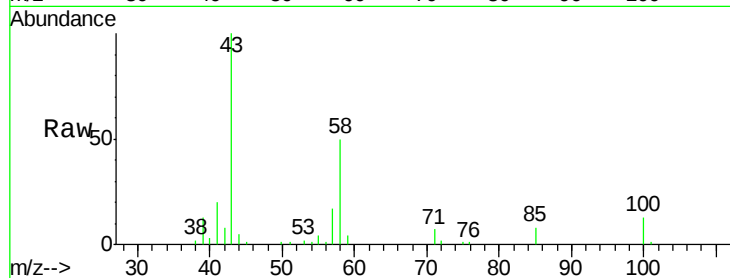
#59
2-Hexanone
Concen: 13.488 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

Tot Ion: 43 Resp: 12678
Ion Ratio Lower Upper
43 100
58 50.0 26.7 80.0

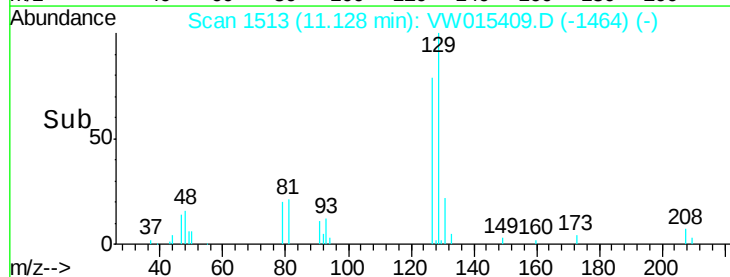
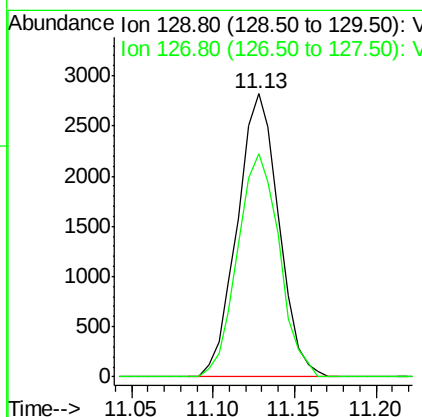
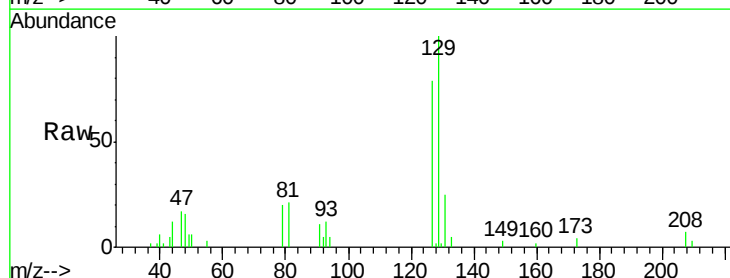
Manual Integrations
APPROVED

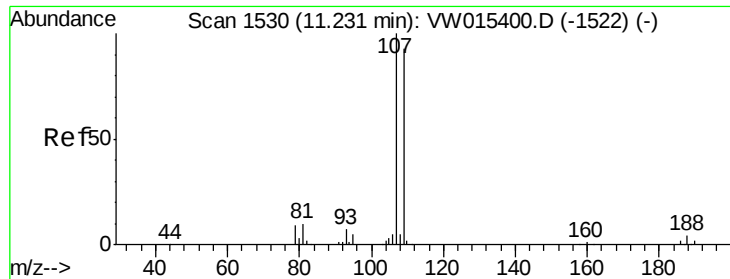
MMDadoda
5/7/2020 10:34:53 AM



#60
Dibromochloromethane
Concen: 2.418 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Tgt Ion: 129 Resp: 5006
Ion Ratio Lower Upper
129 100
127 79.2 39.1 117.2





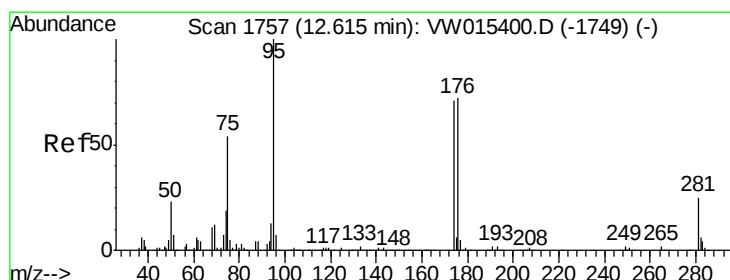
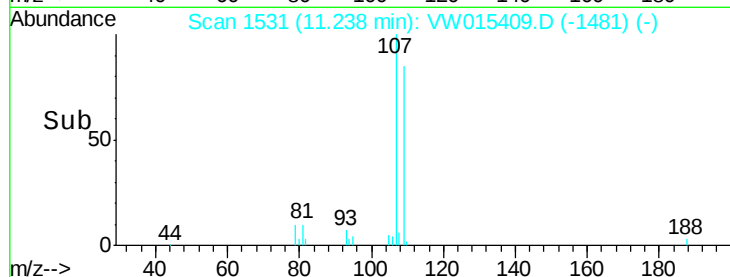
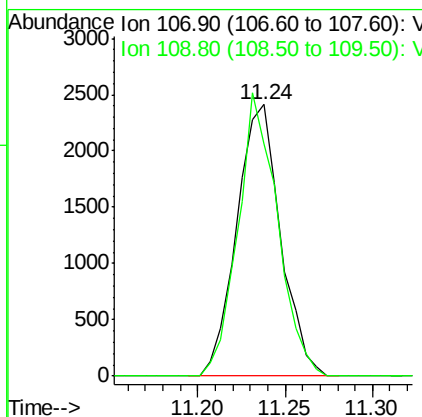
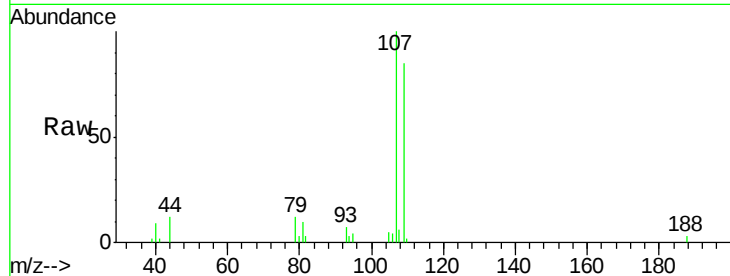
#61
 1,2-Dibromoethane
 Concen: 2.586 ug/l
 RT: 11.24 min Scan# 1531
 Delta R.T. 0.01 min
 Lab File: VW015409.D
 Acq: 06 May 2020 12:23

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.0	75.0	112.4

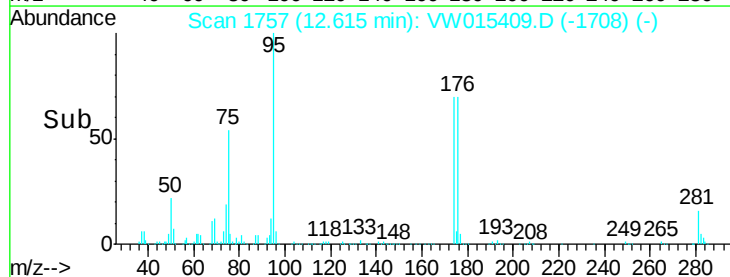
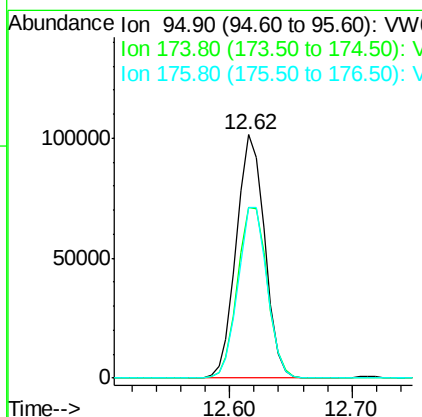
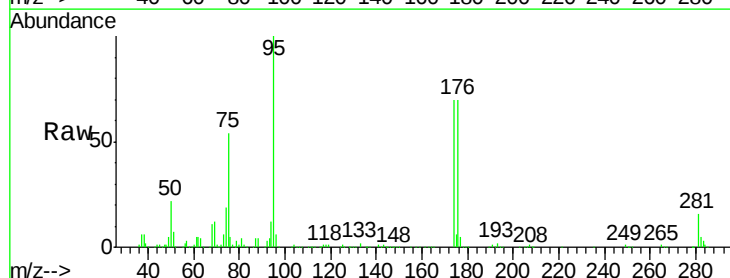
Manual Integrations
 APPROVED

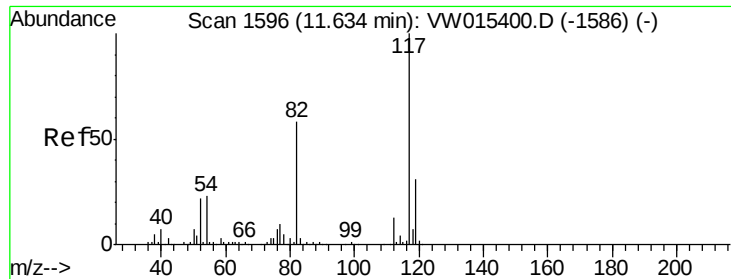
MMDadoda
 5/7/2020 10:34:53 AM



#62
 4-Bromofluorobenzene
 Concen: 50.275 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VW015409.D
 Acq: 06 May 2020 12:23

Tgt Ion	Ratio	Lower	Upper
95	100		
174	73.6	0.0	147.6
176	71.9	0.0	144.4





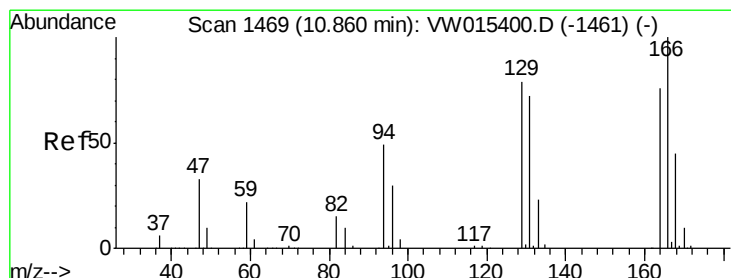
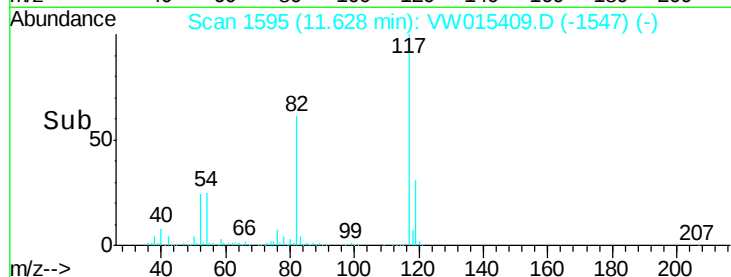
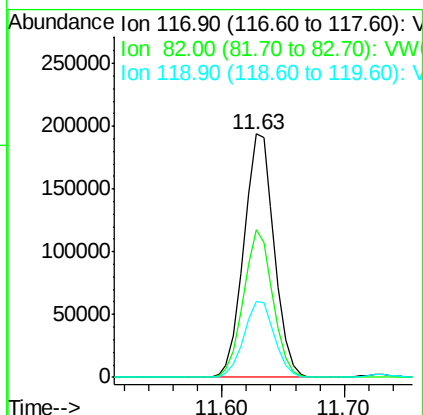
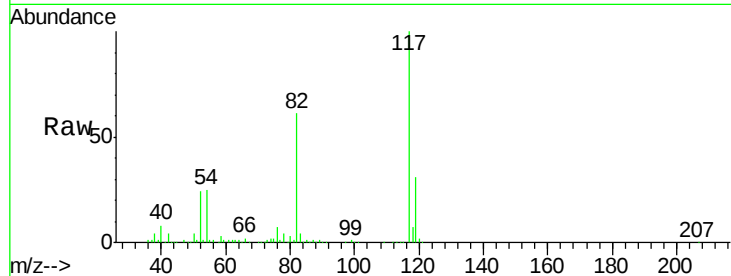
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ratio	Resp	Lower	Upper
117	100	332762		
82	60.6	46.4	69.6	
119	31.2	24.6	37.0	

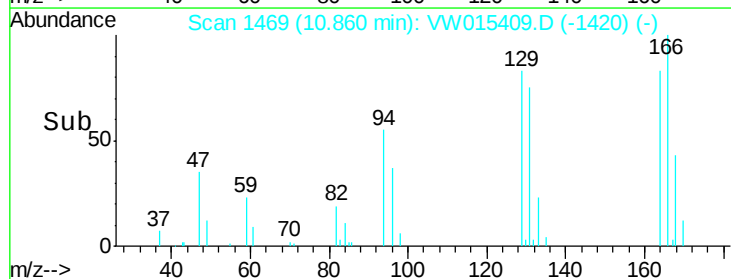
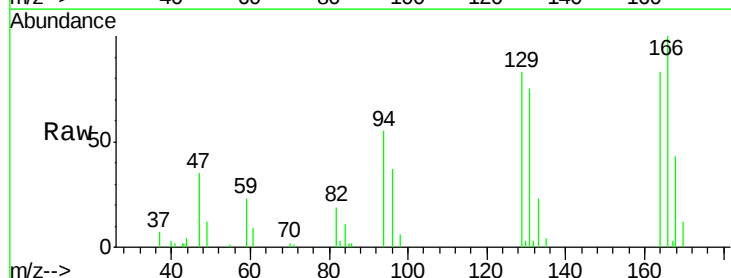
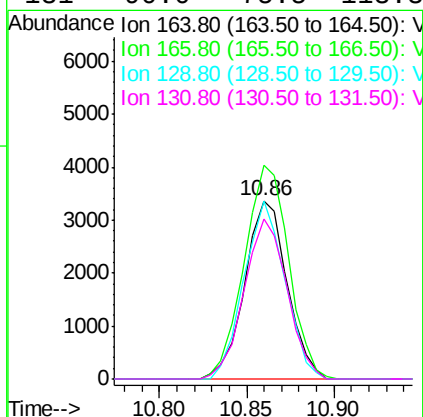
Manual Integrations
APPROVED

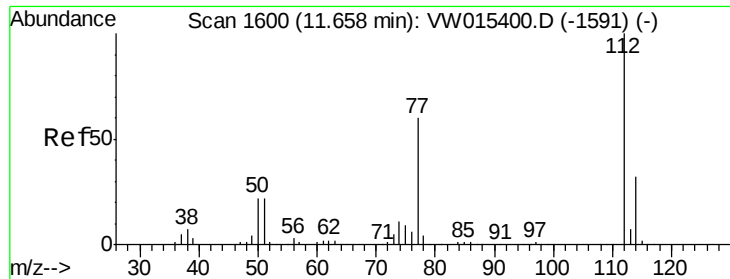
MMDadoda
5/7/2020 10:34:53 AM



#64
Tetrachloroethene
Concen: 2.782 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	5659		
166	119.8	104.9	157.3	
129	99.7	82.7	124.1	
131	90.0	75.5	113.3	





#65

Chlorobenzene

Concen: 2.619 ug/l

RT: 11.65 min Scan# 1599

Delta R.T. -0.01 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion:112 Resp: 17180

Ion Ratio Lower Upper

112 100

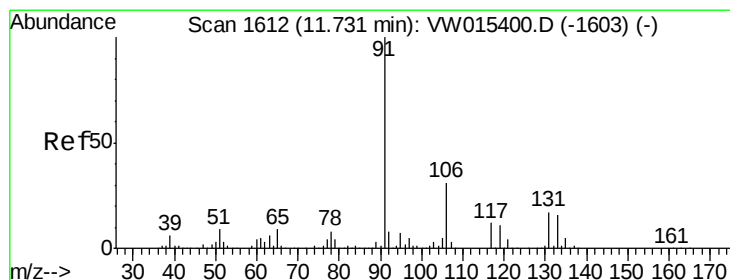
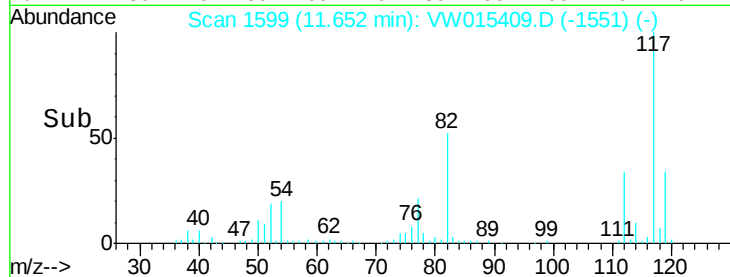
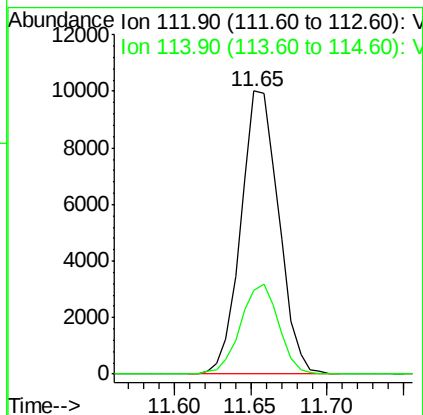
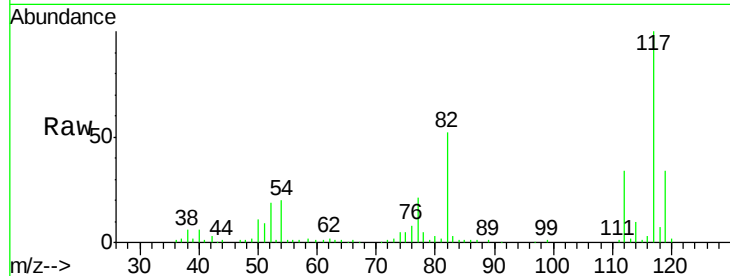
114 29.4 25.6 38.4

Manual Integrations

APPROVED

MMDadoda

5/7/2020 10:34:53 AM



#66

1,1,1,2-Tetrachloroethane

Concen: 2.506 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

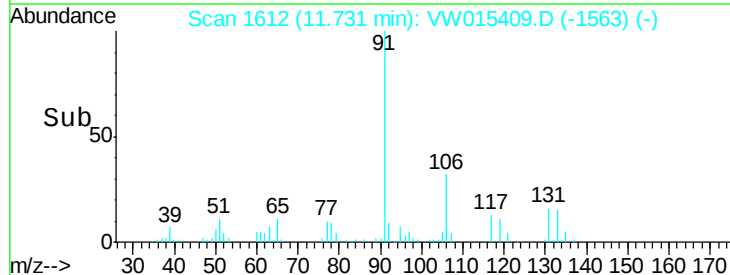
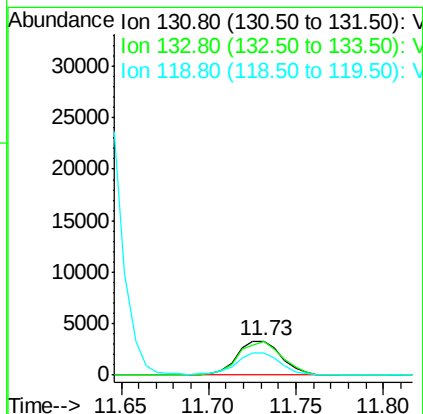
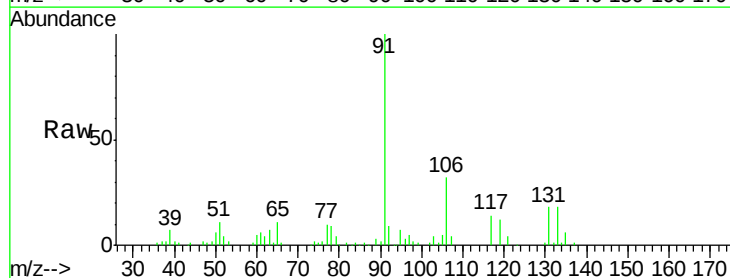
Tgt Ion:131 Resp: 5830

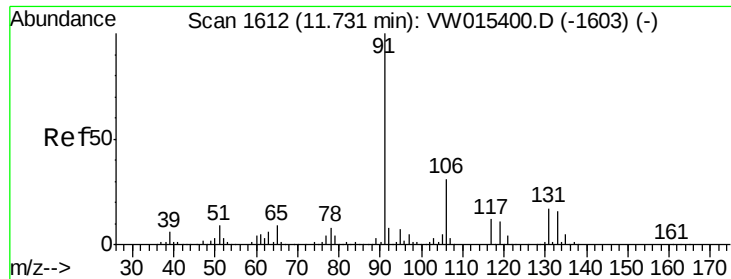
Ion Ratio Lower Upper

131 100

133 96.1 47.9 143.8

119 65.8 33.0 99.0





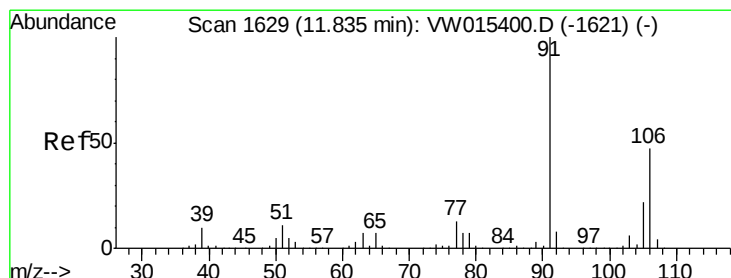
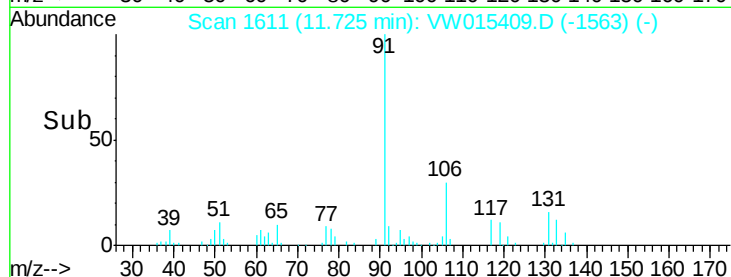
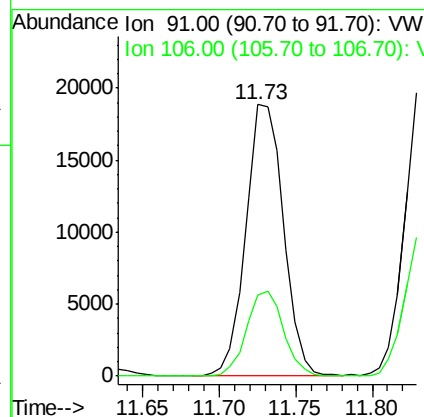
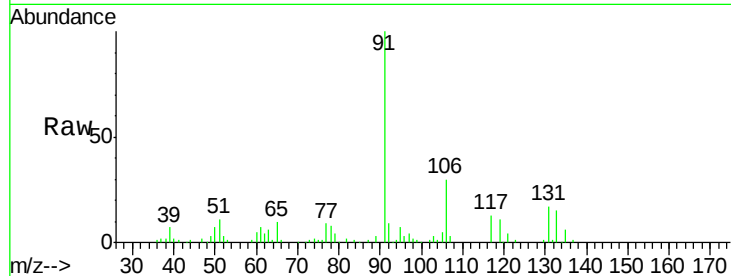
#67
Ethyl Benzene
Concen: 2.574 ug/l
RT: 11.73 min Scan# 1611
Delta R.T. -0.01 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

Tot Ion: 91 Resp: 32323
Ion Ratio Lower Upper
91 100
106 29.8 25.2 37.8

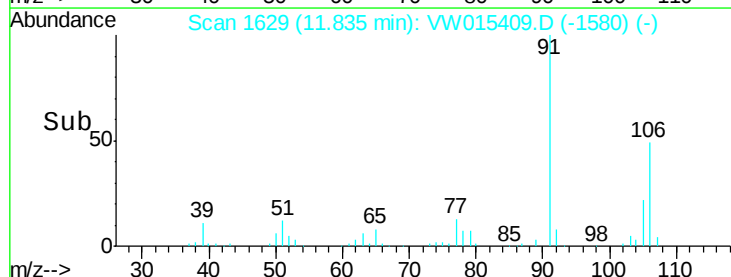
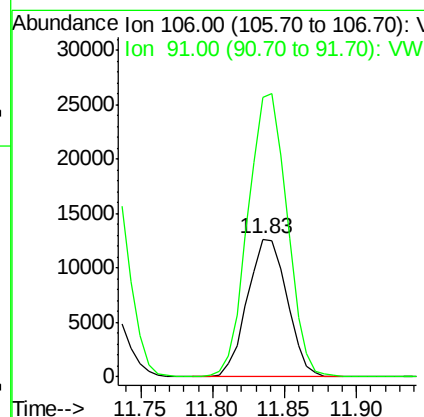
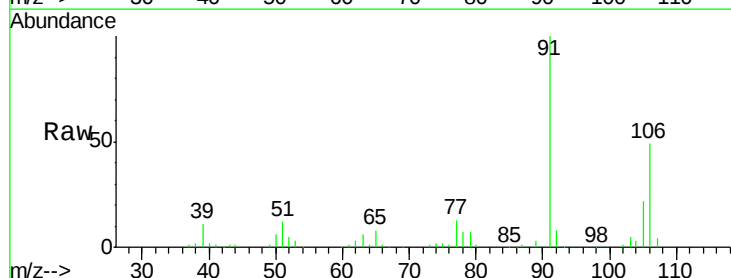
Manual Integrations
APPROVED

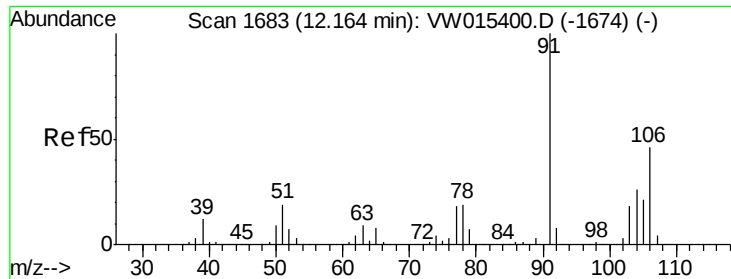
MMDadoda
5/7/2020 10:34:53 AM



#68
m/p-Xylenes
Concen: 5.167 ug/l
RT: 11.83 min Scan# 1629
Delta R.T. 0.00 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Tgt Ion: 106 Resp: 24123
Ion Ratio Lower Upper
106 100
91 204.3 165.7 248.5





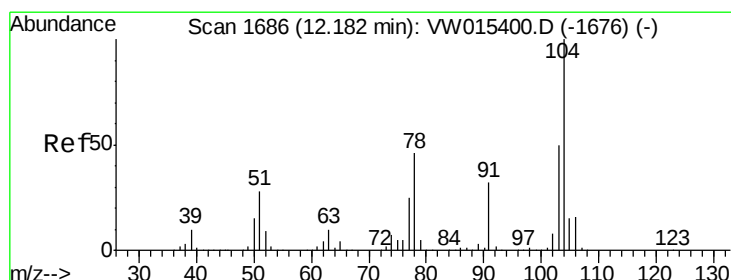
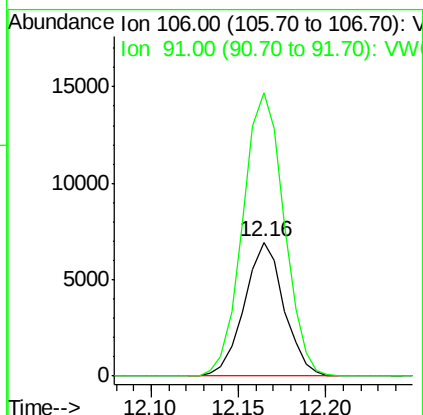
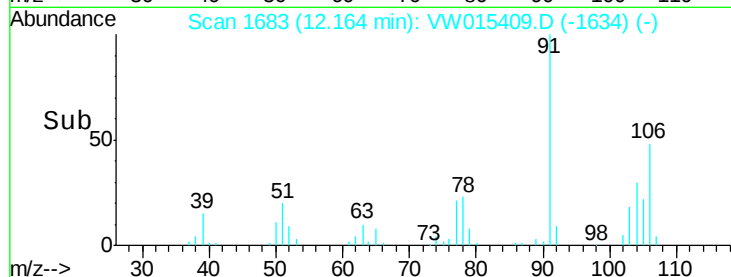
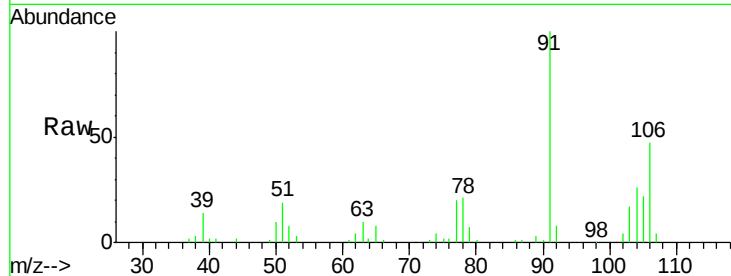
#69
o-Xylene
Concen: 2.496 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

Tot Ion:106 Resp: 10952
Ion Ratio Lower Upper
106 100
91 220.8 109.0 327.0

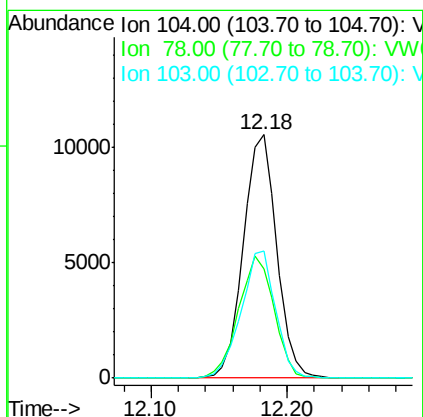
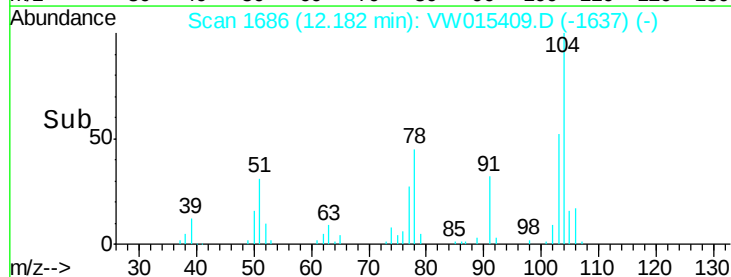
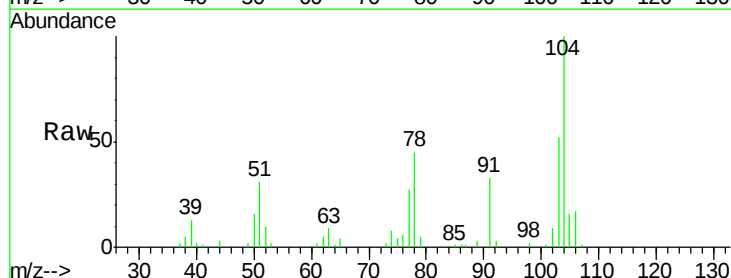
Manual Integrations
APPROVED

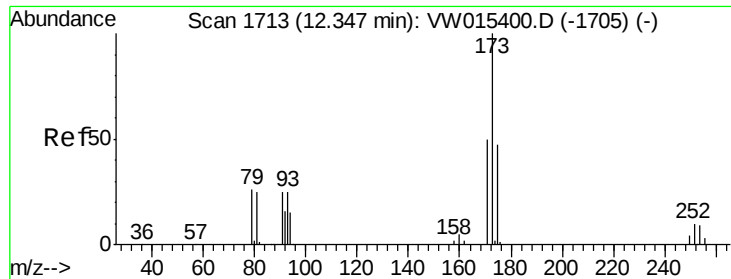
MMDadoda
5/7/2020 10:34:53 AM



#70
Styrene
Concen: 2.396 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Tgt Ion:104 Resp: 18102
Ion Ratio Lower Upper
104 100
78 53.7 41.8 62.8
103 54.1 43.6 65.4





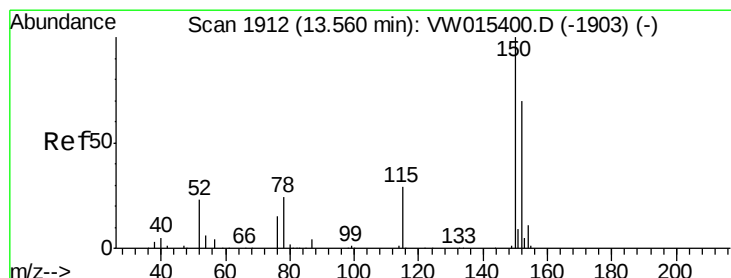
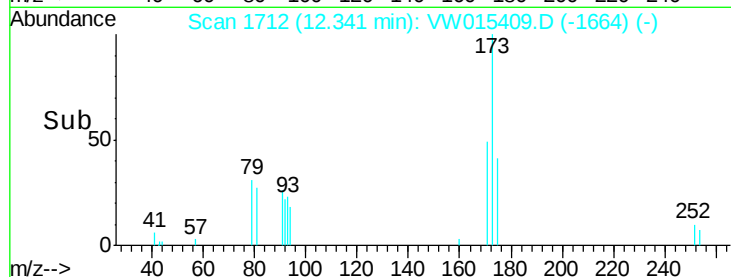
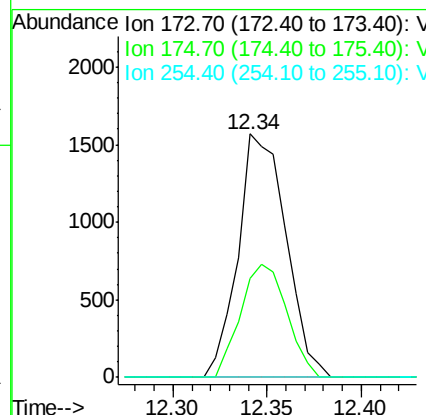
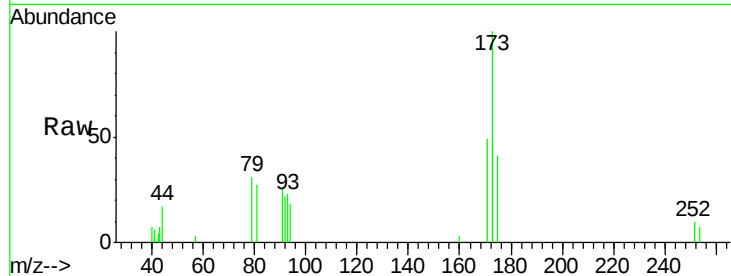
#71
Bromoform
Concen: 2.440 ug/l
RT: 12.34 min Scan# 1712
Delta R.T. -0.01 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
173	100		
175	44.7	23.8	71.4
254	0.0	0.0	0.0

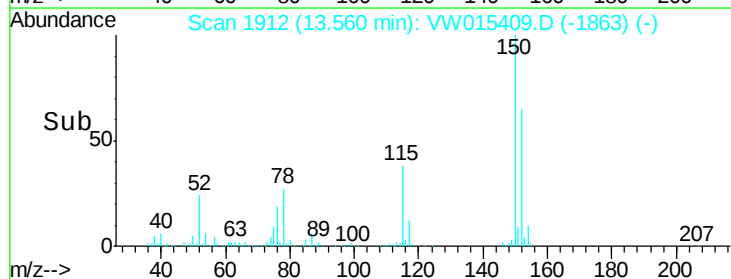
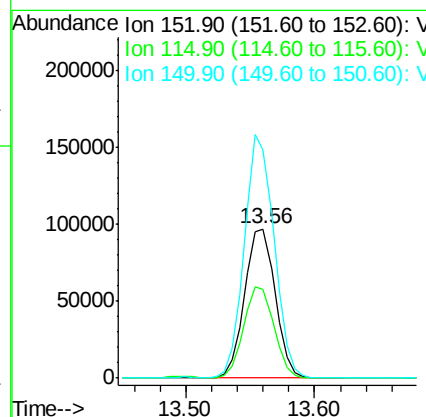
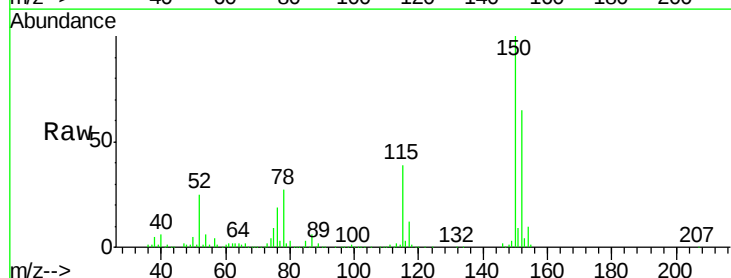
Manual Integrations
APPROVED

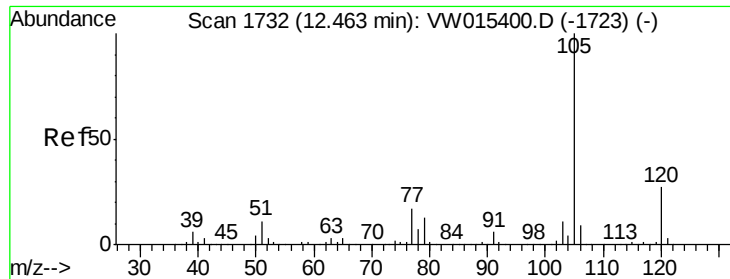
MMDadoda
5/7/2020 10:34:53 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.5	30.3	90.8
150	158.4	0.0	344.4





#73

Isopropylbenzene

Concen: 2.600 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion: 105 Resp: 30951

Ion Ratio Lower Upper

105 100

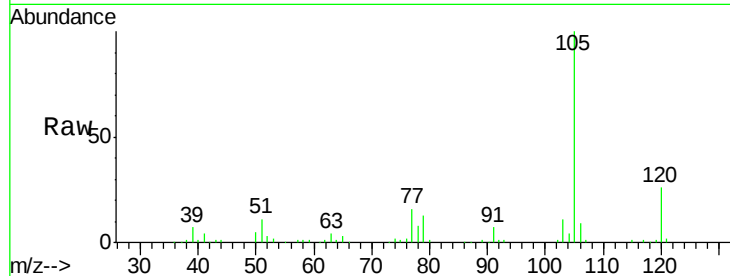
120 26.4 13.1 39.3

Manual Integrations

APPROVED

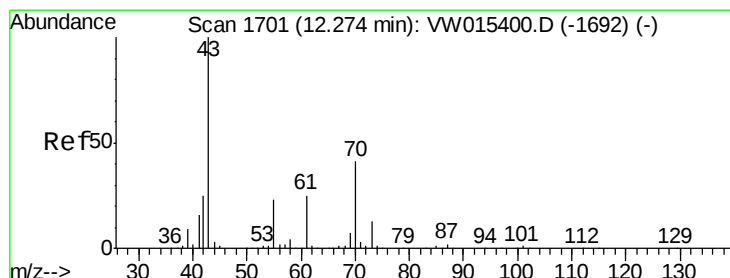
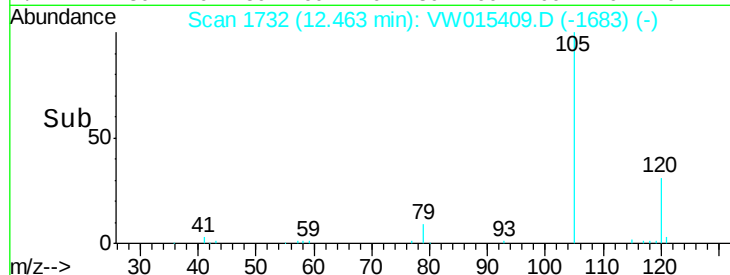
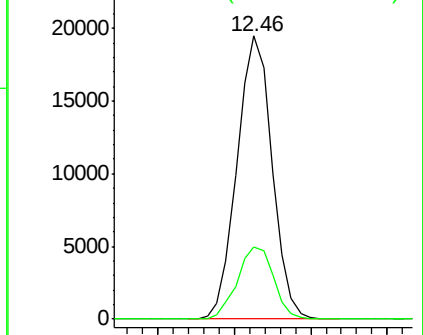
MMDadoda

5/7/2020 10:34:53 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 2.786 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

Tgt Ion: 43 Resp: 7842

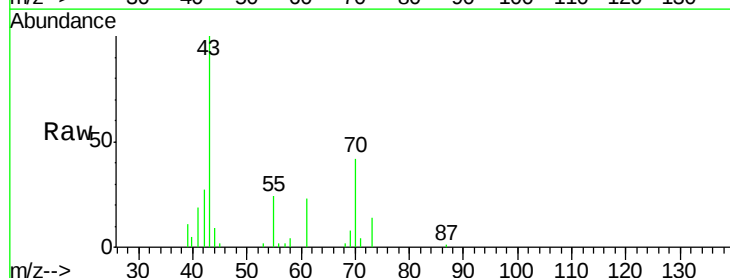
Ion Ratio Lower Upper

43 100

70 36.4 33.4 50.0

55 23.9 18.9 28.3

61 21.4 19.4 29.0

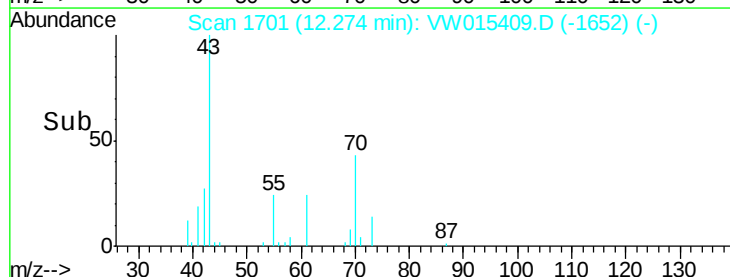
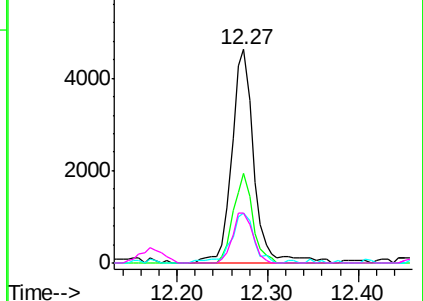


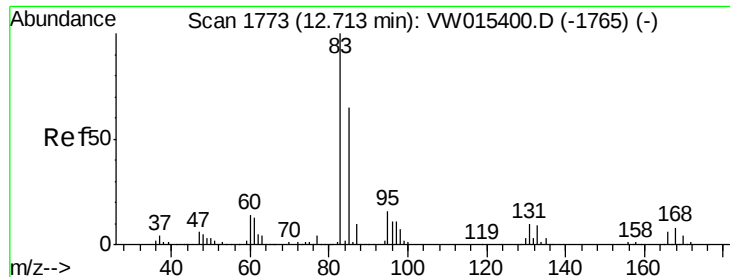
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW





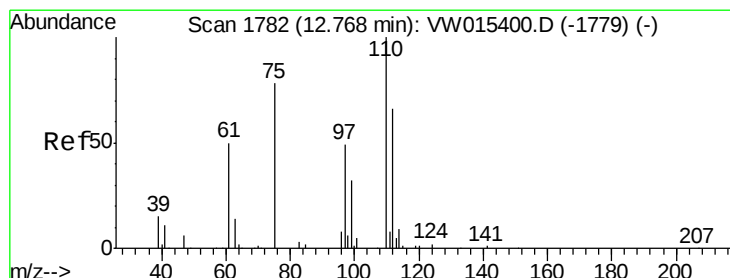
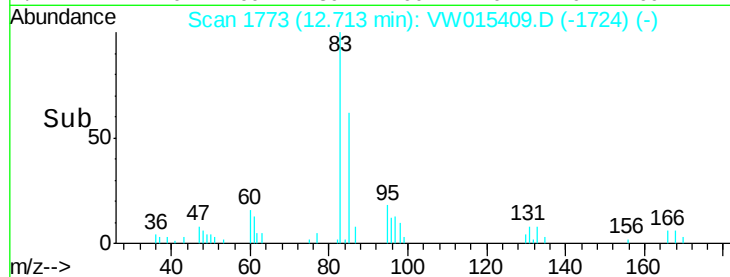
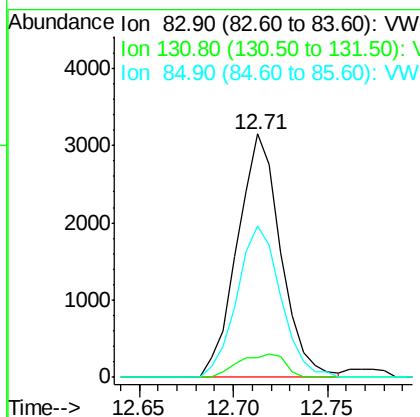
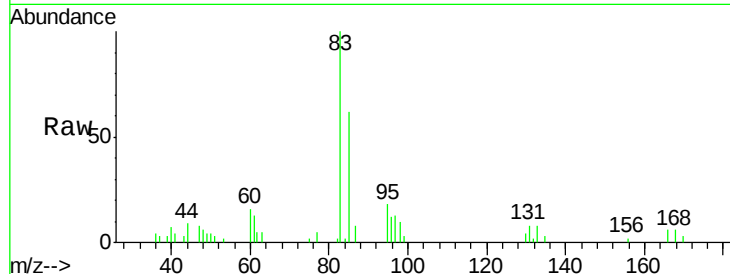
#75
 1,1,2,2-Tetrachloroethane
 Concen: 2.699 ug/l
 RT: 12.71 min Scan# 1773
 Delta R.T. 0.00 min
 Lab File: VW015409.D
 Acq: 06 May 2020 12:23

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.1	15.2
85	62.8	32.2	96.6

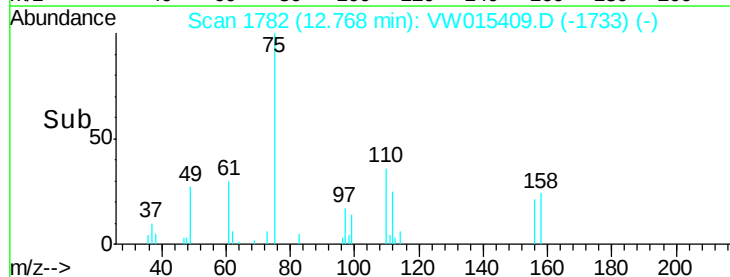
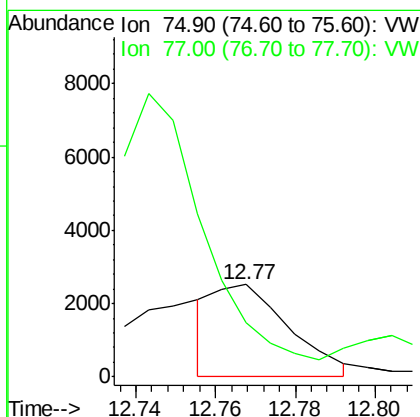
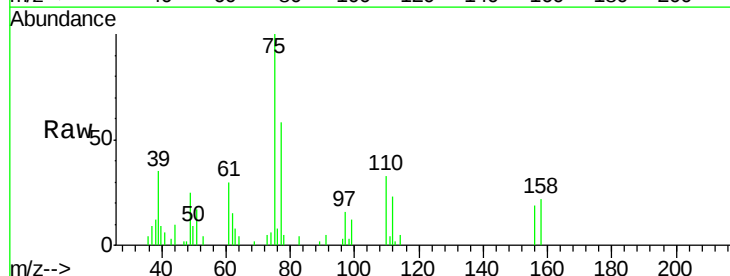
Manual Integrations
 APPROVED

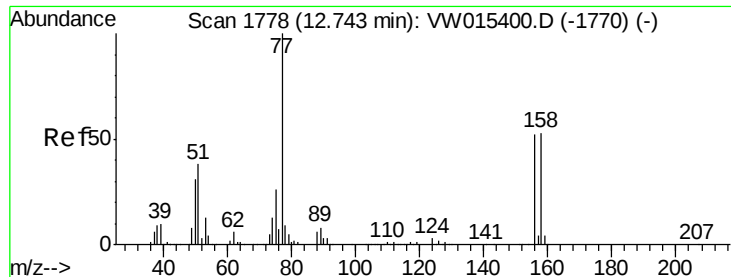
MMDadoda
 5/7/2020 10:34:53 AM



#76
 1,2,3-Trichloropropane
 Concen: 2.531 ug/l m
 RT: 12.77 min Scan# 1782
 Delta R.T. 0.00 min
 Lab File: VW015409.D
 Acq: 06 May 2020 12:23

Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 2.711 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. 0.00 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion:156 Resp: 6839

Ion Ratio Lower Upper

156 100

77 200.8 101.8 305.6

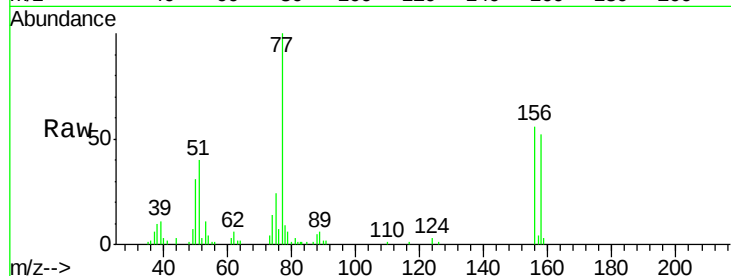
158 96.8 48.3 144.8

Manual Integrations

APPROVED

MMDadoda

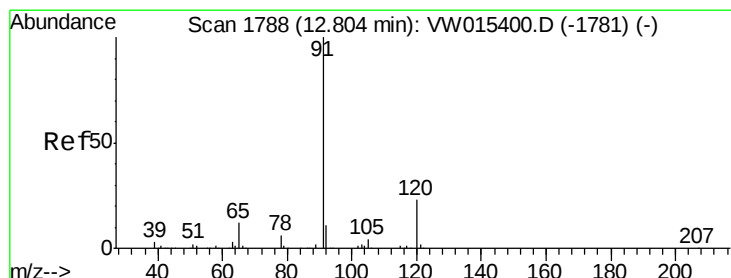
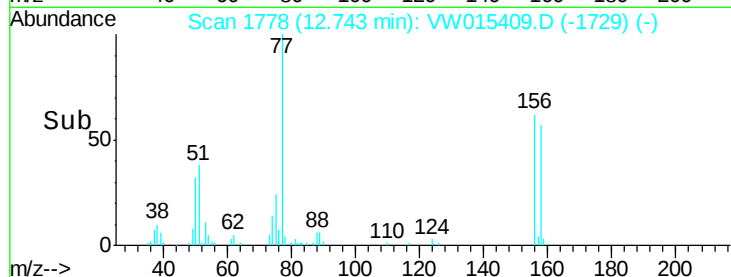
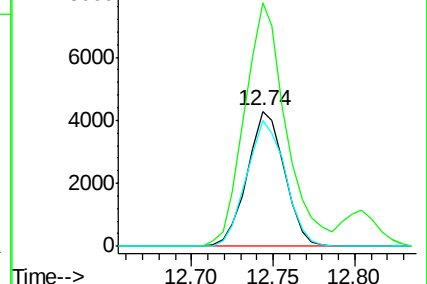
5/7/2020 10:34:53 AM



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: 2.636 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. 0.00 min

Lab File: VW015409.D

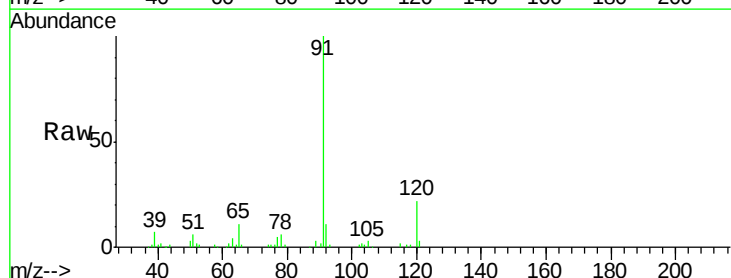
Acq: 06 May 2020 12:23

Tgt Ion: 91 Resp: 37661

Ion Ratio Lower Upper

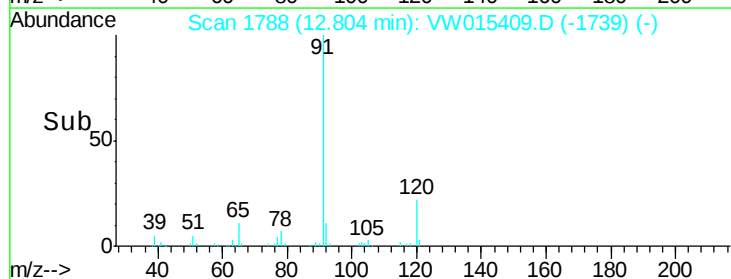
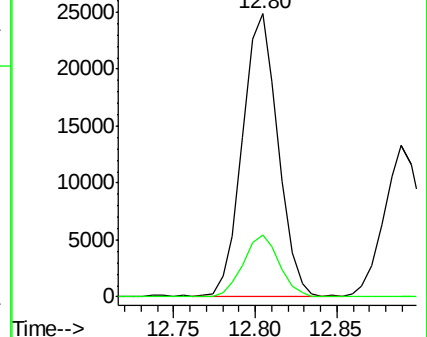
91 100

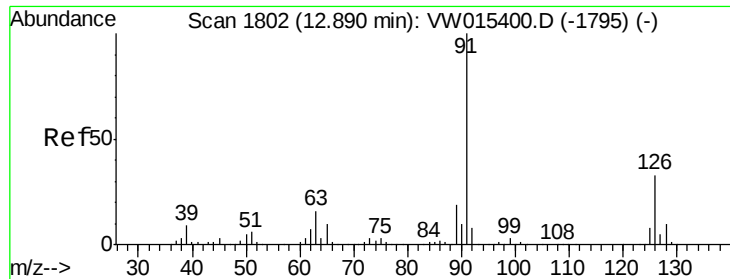
120 22.2 11.2 33.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 2.642 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion: 91 Resp: 21271

Ion Ratio Lower Upper

91 100

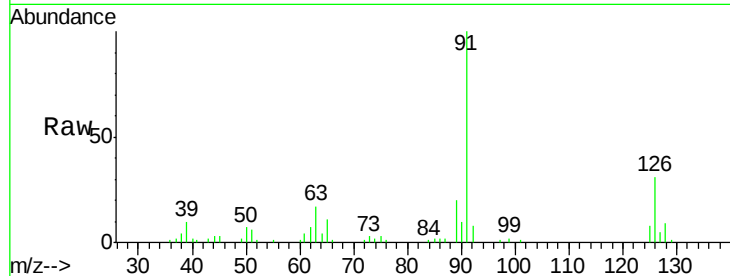
126 30.8 16.1 48.2

Manual Integrations

APPROVED

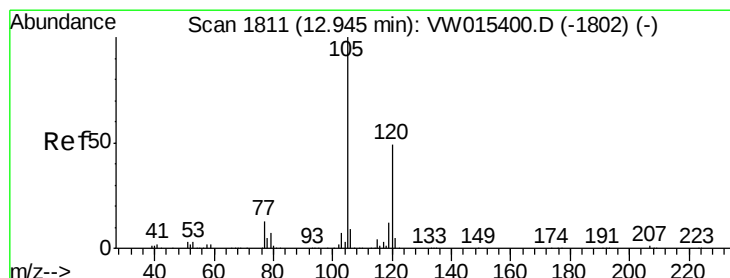
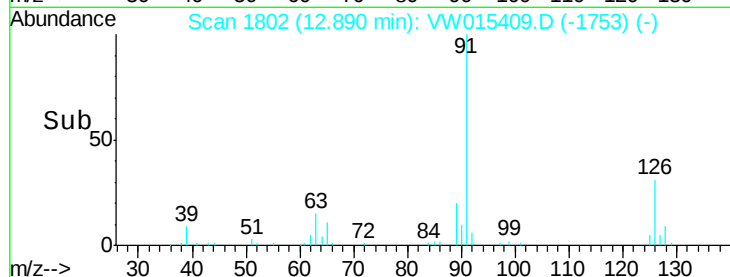
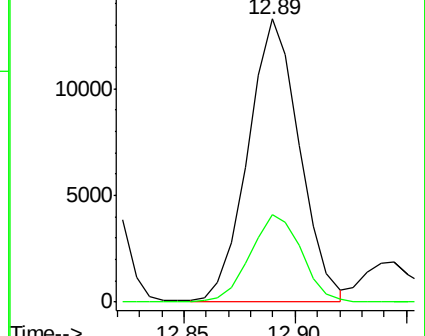
MMDadoda

5/7/2020 10:34:53 AM



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 2.652 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW015409.D

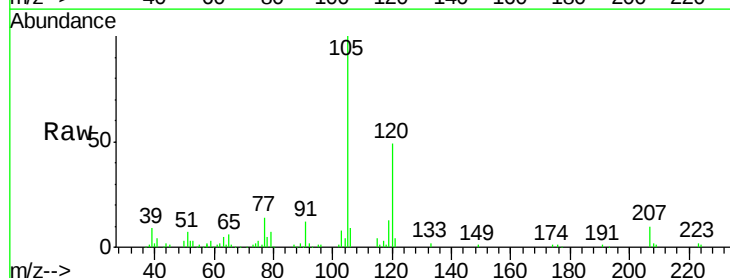
Acq: 06 May 2020 12:23

Tgt Ion:105 Resp: 26594

Ion Ratio Lower Upper

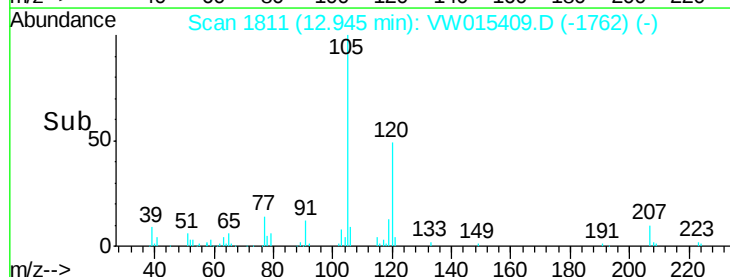
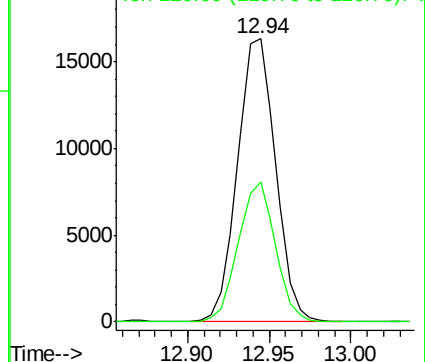
105 100

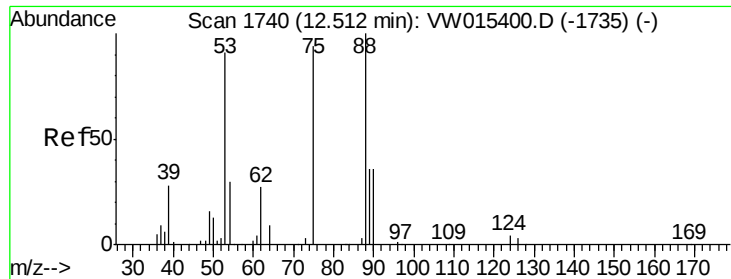
120 47.8 24.2 72.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 2.423 ug/l m

RT: 12.51 min Scan# 1740

Delta R.T. 0.00 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

Instrument :

MSVOA_W

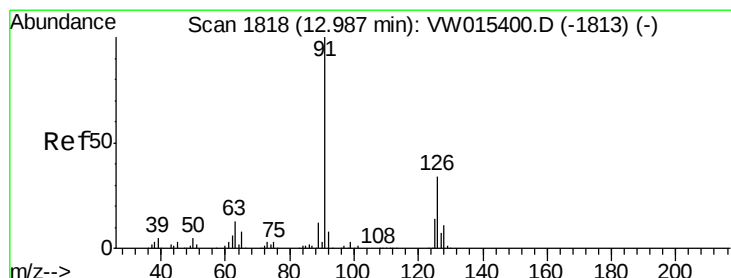
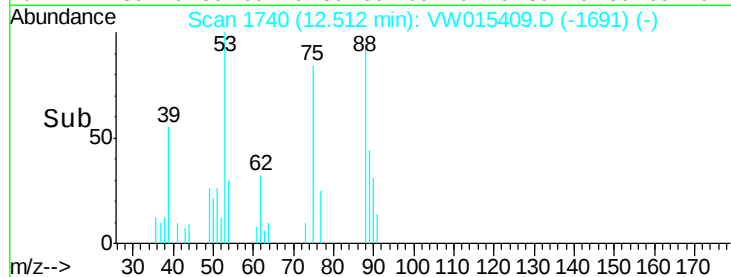
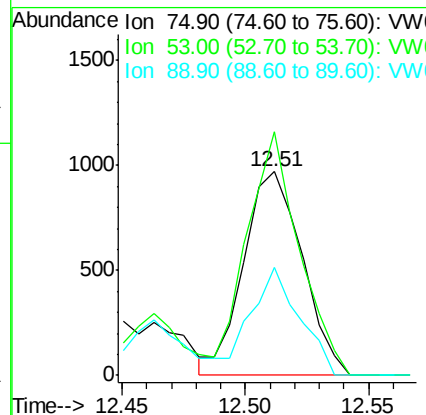
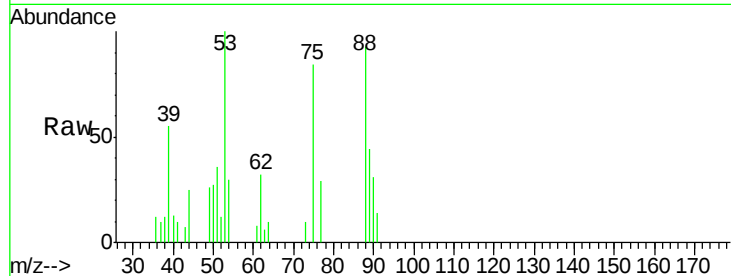
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion:	75	Resp:	1607
Ion Ratio	Lower	Upper	
75	100		
53	0.0	82.5	123.7#
89	13.8	35.8	53.8#

Manual Integrations
APPROVED

MMDadoda
5/7/2020 10:34:53 AM



#82

4-Chlorotoluene

Concen: 2.677 ug/l

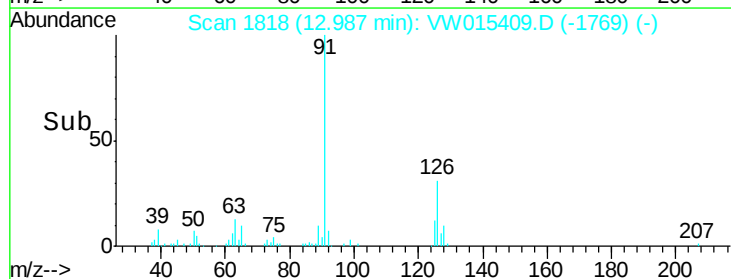
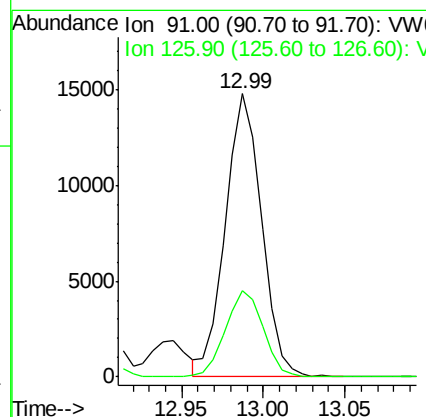
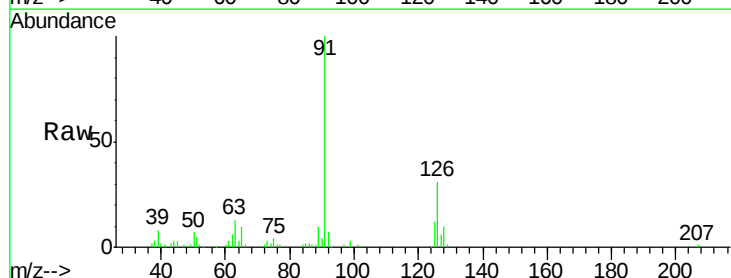
RT: 12.99 min Scan# 1818

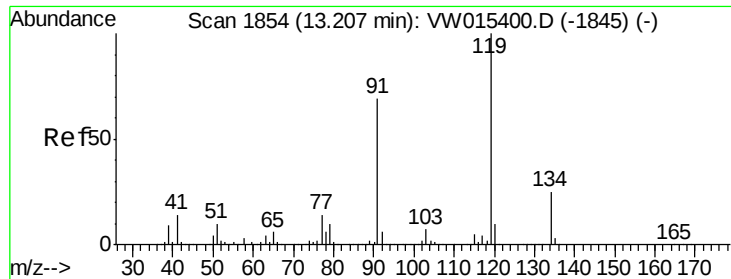
Delta R.T. 0.00 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

Tgt Ion:	91	Resp:	22847
Ion Ratio	Lower	Upper	
91	100		
126	31.7	16.0	47.9





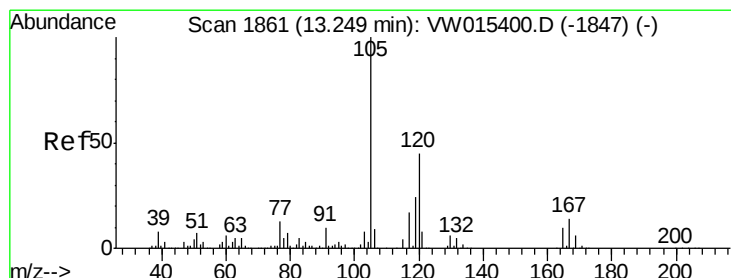
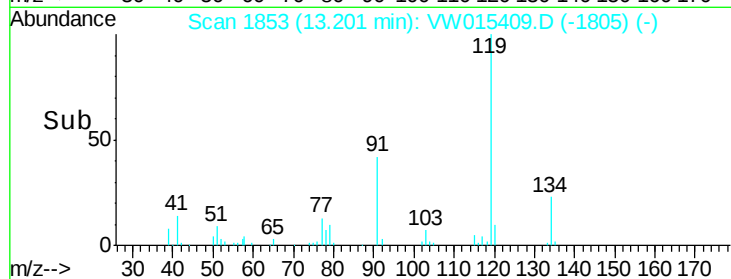
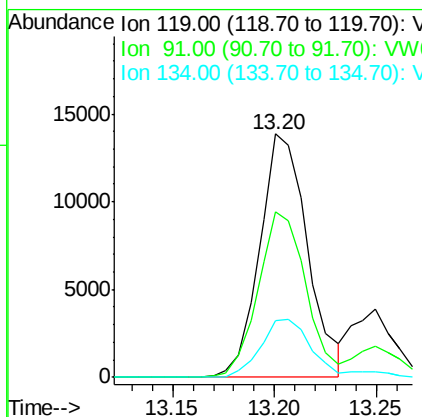
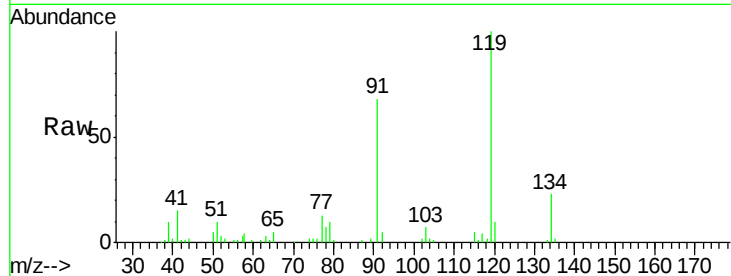
#83
tert-Butylbenzene
Concen: 2.653 ug/l
RT: 13.20 min Scan# 1853
Delta R.T. -0.01 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
119	100		
91	67.6	33.8	101.4
134	24.9	12.3	36.9

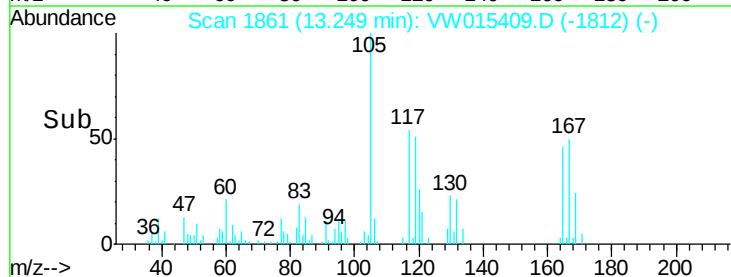
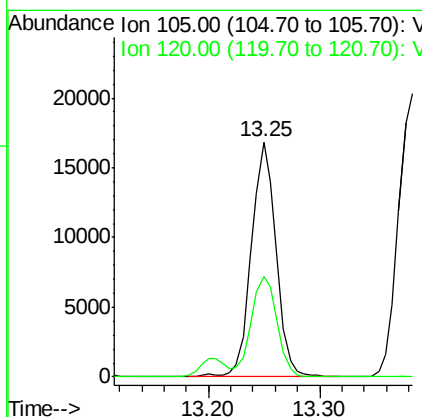
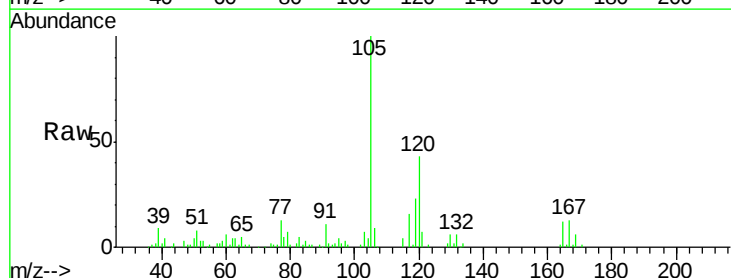
Manual Integrations
APPROVED

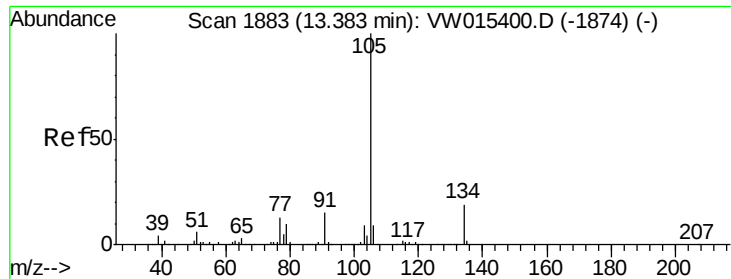
MMDadoda
5/7/2020 10:34:53 AM



#84
1,2,4-Trimethylbenzene
Concen: 2.596 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.8	22.0	66.0





#85

sec-Butylbenzene

Concen: 2.580 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion:105 Resp: 31104

Ion Ratio Lower Upper

105 100

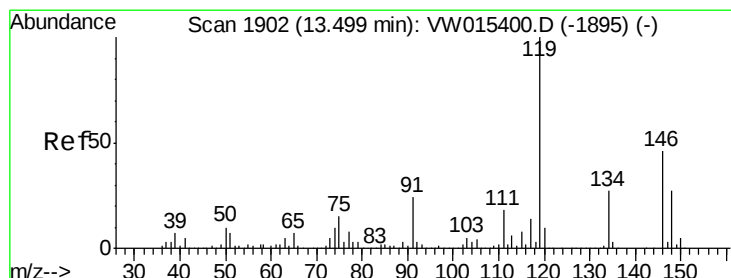
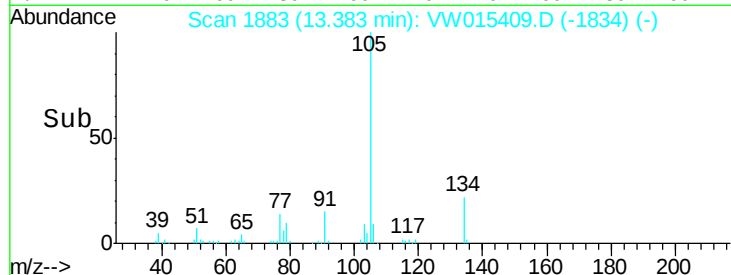
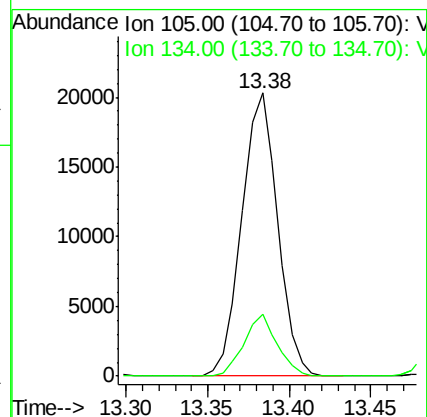
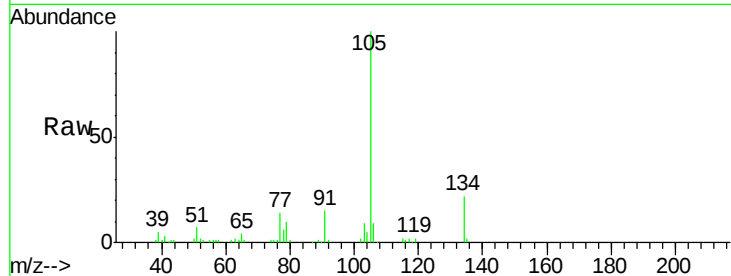
134 20.3 9.8 29.5

Manual Integrations

APPROVED

MMDadoda

5/7/2020 10:34:53 AM



#86

p-Isopropyltoluene

Concen: 2.565 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

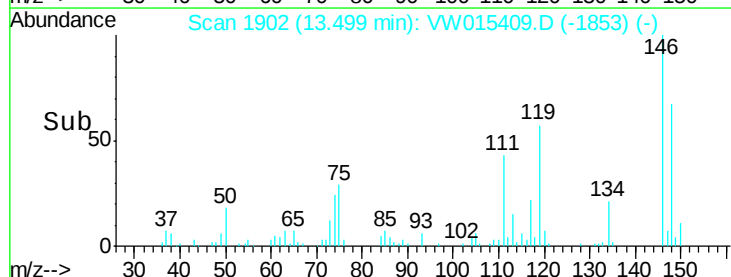
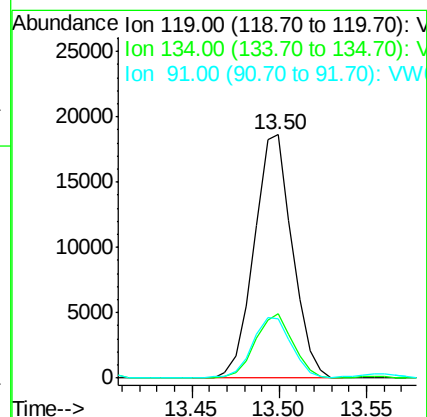
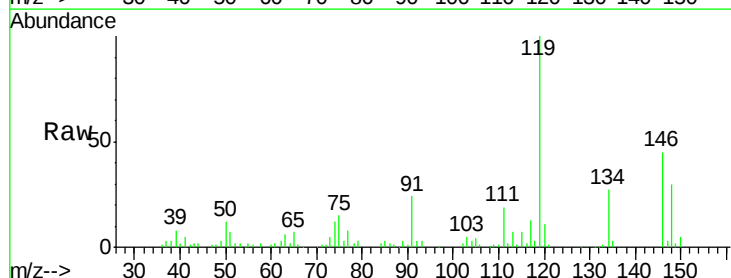
Tgt Ion:119 Resp: 28206

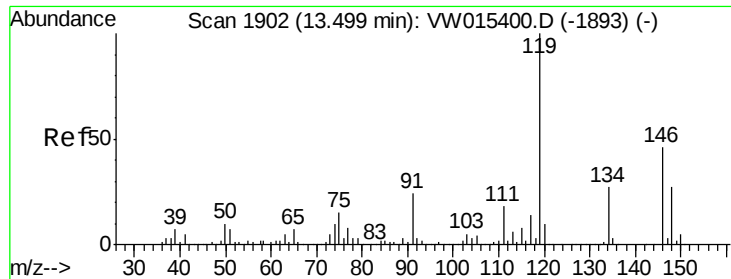
Ion Ratio Lower Upper

119 100

134 26.1 12.8 38.4

91 25.6 12.1 36.3





#87

1,3-Dichlorobenzene

Concen: 2.656 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

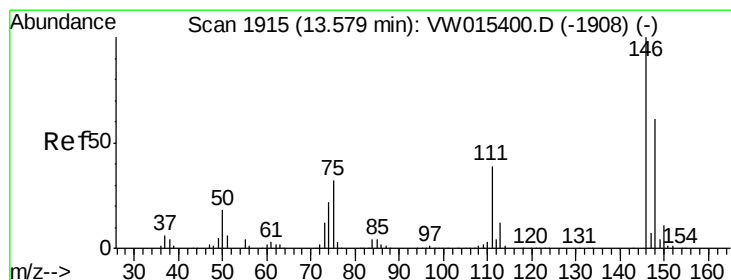
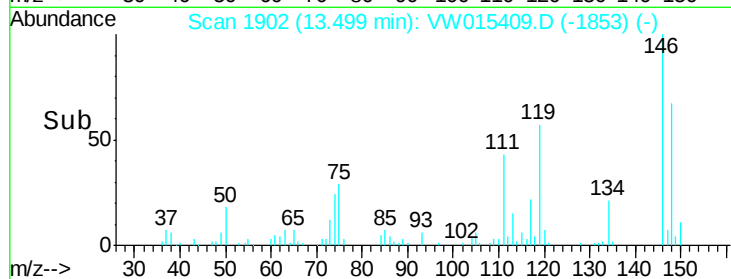
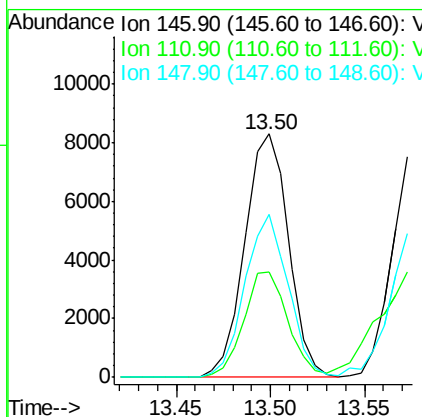
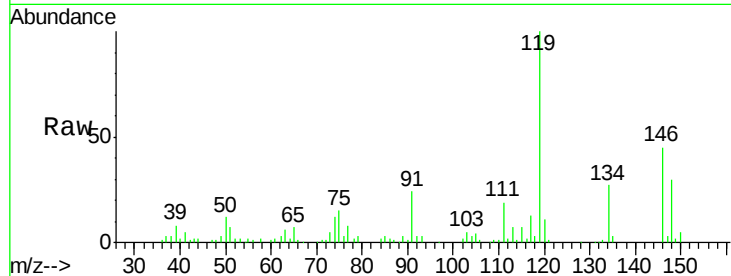
Instrument :
MSVOA_W

ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.7	20.5	61.5
148	66.2	31.4	94.0

Manual Integrations
APPROVED

MMDadoda
5/7/2020 10:34:53 AM



#88

1,4-Dichlorobenzene

Concen: 2.778 ug/l

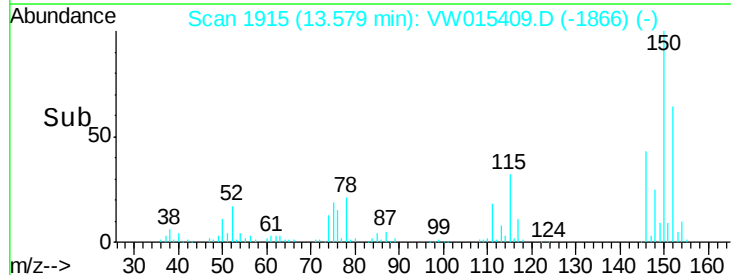
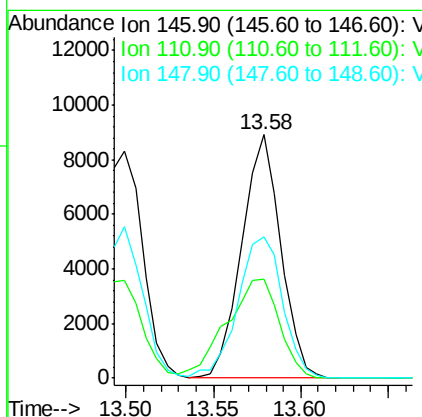
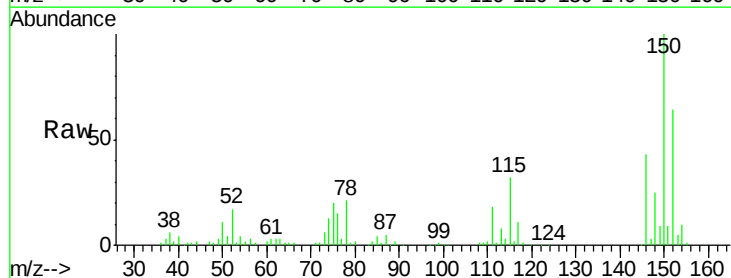
RT: 13.58 min Scan# 1915

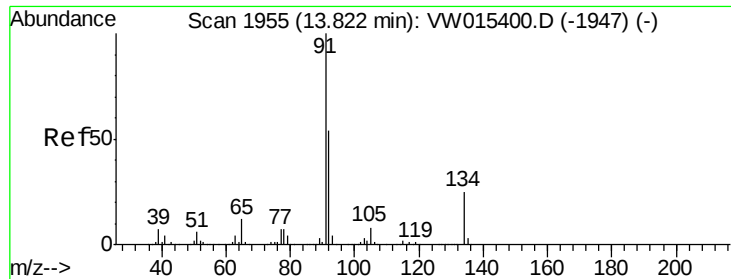
Delta R.T. 0.00 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

Tgt Ion	Ratio	Lower	Upper
146	100		
111	55.3	20.0	60.0
148	66.9	31.4	94.3





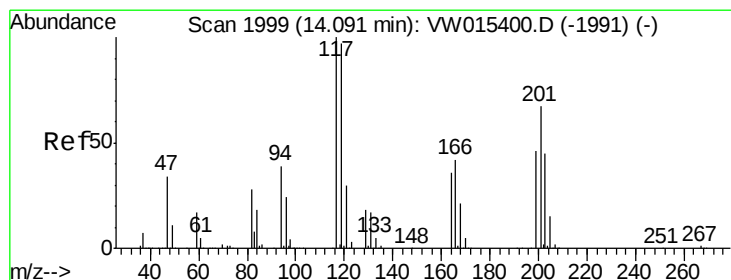
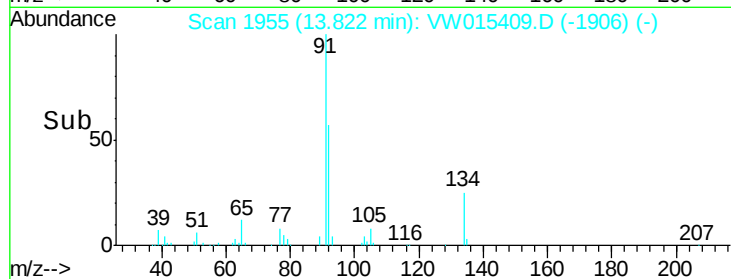
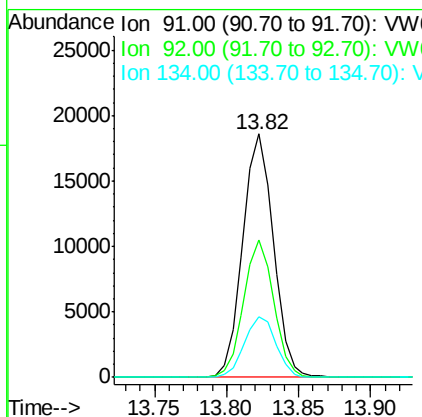
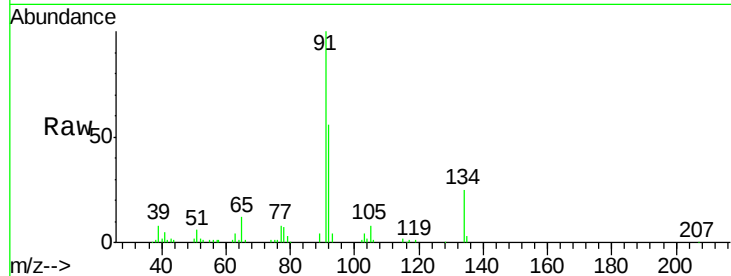
#89
n-Butylbenzene
Concen: 2.551 ug/l
RT: 13.82 min Scan# 1955
Delta R.T. 0.00 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ratio	Lower	Upper
91	100		
92	55.2	27.2	81.6
134	25.7	12.6	37.6

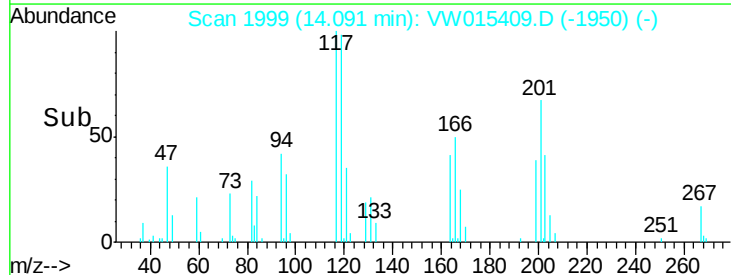
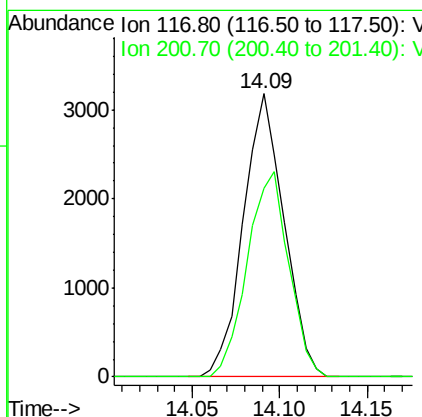
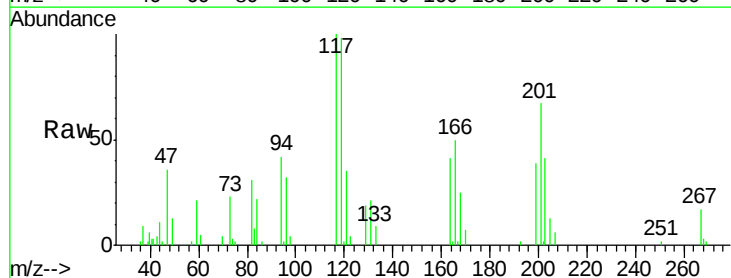
Manual Integrations
APPROVED

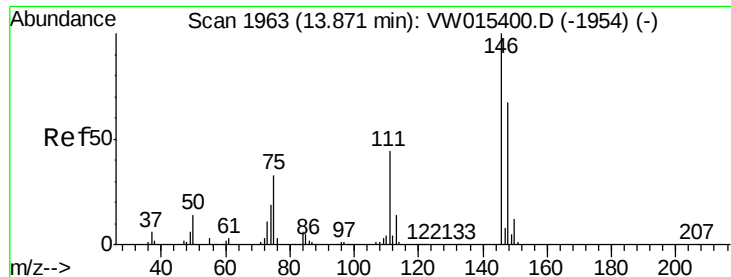
MMDadoda
5/7/2020 10:34:53 AM



#90
Hexachloroethane
Concen: 2.543 ug/l
RT: 14.09 min Scan# 1999
Delta R.T. 0.00 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Tgt Ion	Ratio	Lower	Upper
117	100		
201	73.7	35.9	107.8





#91

1,2-Dichlorobenzene

Concen: 2.747 ug/l

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

Instrument :

MSVOA_W

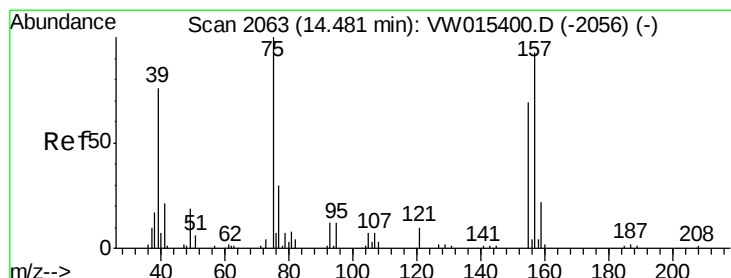
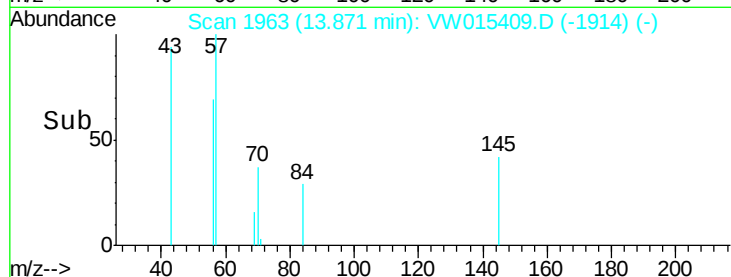
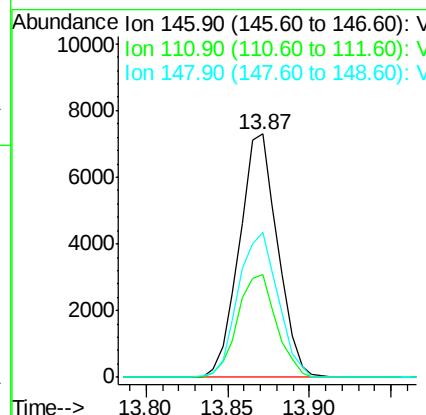
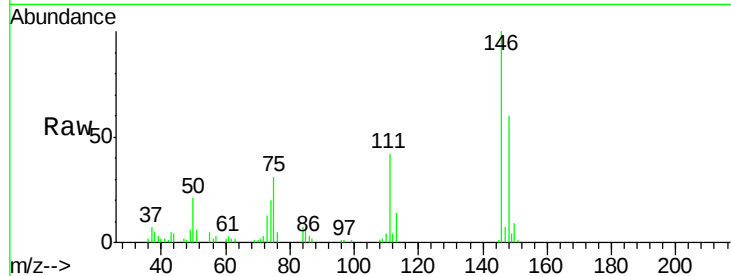
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2020

Tot Ion:	146	Resp:	11955
Ion Ratio	Lower	Upper	
146	100		
111	42.6	22.1	66.3
148	61.9	32.5	97.4

Manual Integrations
APPROVED

MMDadoda
5/7/2020 10:34:53 AM



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.872 ug/l

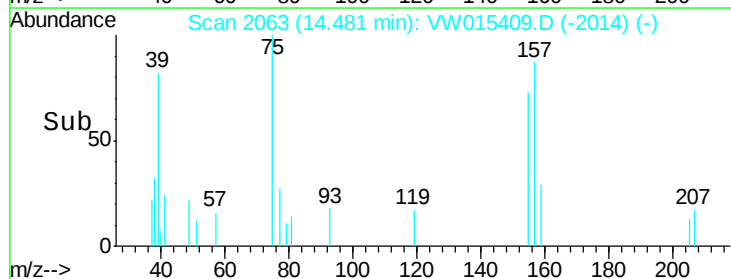
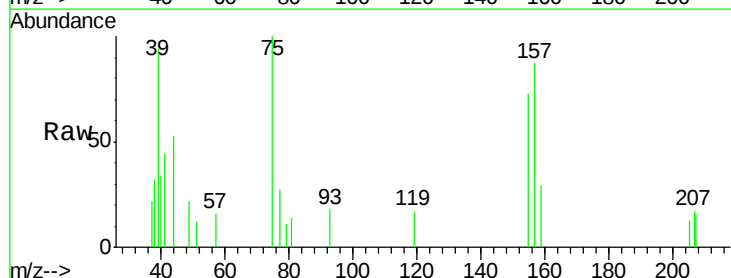
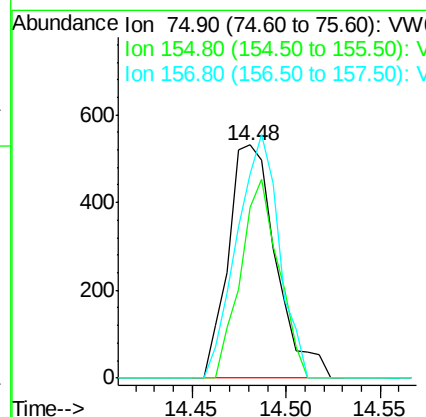
RT: 14.48 min Scan# 2063

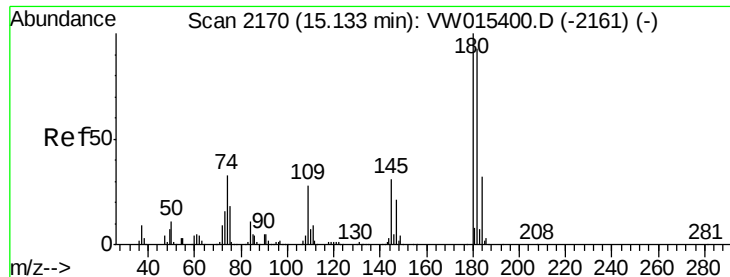
Delta R.T. 0.00 min

Lab File: VW015409.D

Acq: 06 May 2020 12:23

Tgt Ion:	75	Resp:	934
Ion Ratio	Lower	Upper	
75	100		
155	67.8	38.7	116.1
157	92.4	48.1	144.4





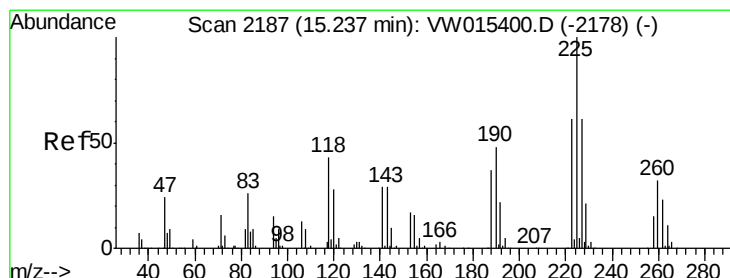
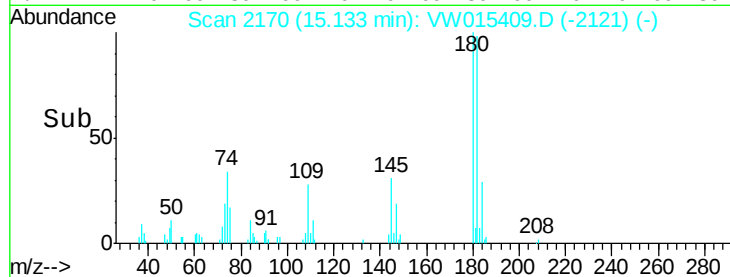
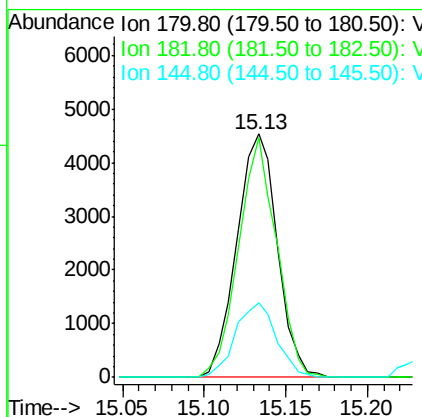
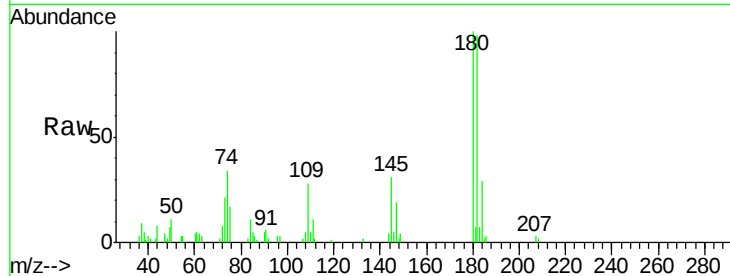
#93
 1,2,4-Trichlorobenzene
 Concen: 2.683 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW015409.D
 Acq: 06 May 2020 12:23

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2020

Tot Ion	Ratio	Resp	Lower	Upper
180	100	7846		
182	92.0		47.2	141.6
145	30.9		15.6	46.8

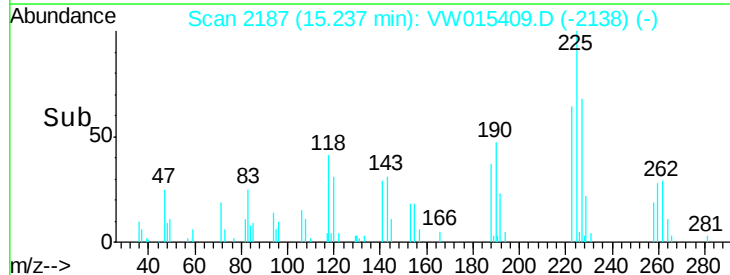
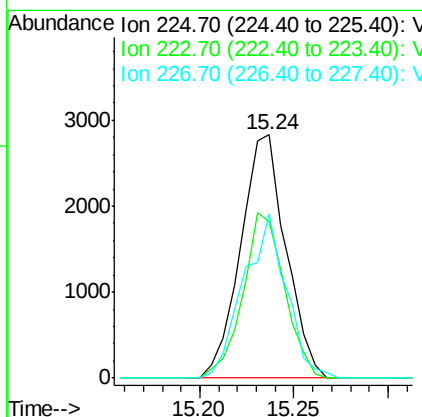
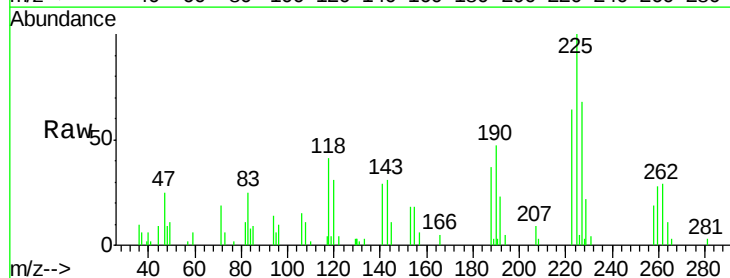
Manual Integrations
 APPROVED

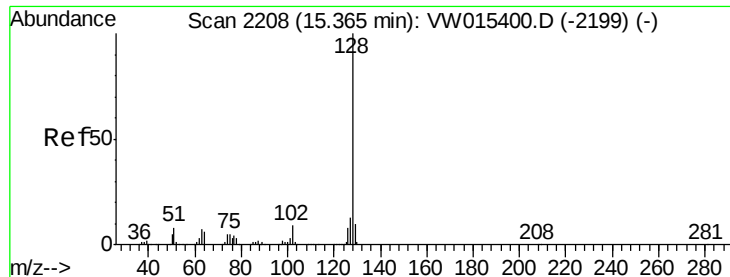
MMDadoda
 5/7/2020 10:34:53 AM



#94
 Hexachlorobutadiene
 Concen: 2.714 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. 0.00 min
 Lab File: VW015409.D
 Acq: 06 May 2020 12:23

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	4704		
223	62.5		30.7	92.1
227	63.5		32.0	96.0





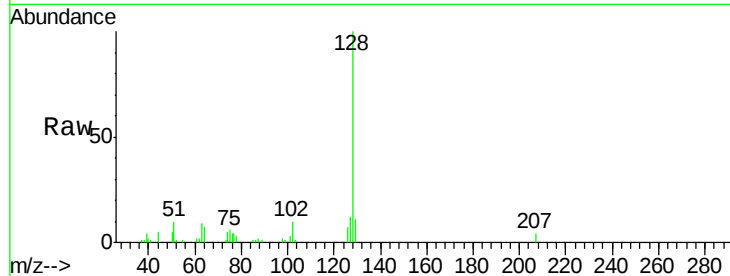
#95
Naphthalene
Concen: 2.568 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. 0.00 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2020

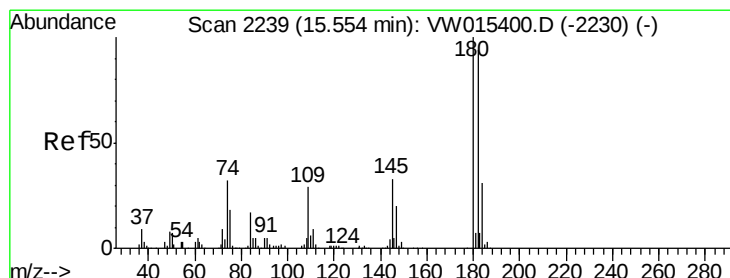
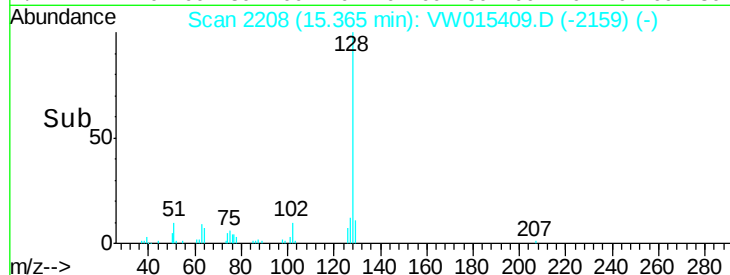
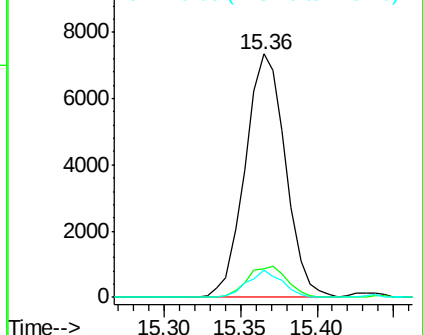
Tot Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.5	15.7
129	9.7	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
5/7/2020 10:34:53 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: 2.694 ug/l
RT: 15.55 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VW015409.D
Acq: 06 May 2020 12:23

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.6	47.6	142.8
145	33.2	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

