

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW100819\
 Data File : VW013489.D
 Acq On : 08 Oct 2019 16:19
 Operator : SY/VA
 Sample : K5111-01 4PPBLOD
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 14 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 10/9/2019 4:10:01 PM

Quant Time: Oct 09 05:54:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W100819S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 09 05:37:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	332497	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	480866	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	420094	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	208988	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	135445	52.73	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.46%	
35) Dibromofluoromethane	7.88	113	137331	51.13	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.26%	
50) Toluene-d8	10.32	98	570294	50.53	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.06%	
62) 4-Bromofluorobenzene	12.62	95	197130	51.99	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.98%	
Target Compounds				Qvalue		
2) Dichlorodifluoromethane	2.00	85	4636	4.209	ug/l	98
3) Chloromethane	2.21	50	9078	4.689	ug/l	96
4) Vinyl Chloride	2.35	62	12000	4.202	ug/l	98
5) Bromomethane	2.77	94	7937	4.658	ug/l	97
6) Chloroethane	2.92	64	7169	4.470	ug/l	97
7) Trichlorofluoromethane	3.25	101	5126	3.794	ug/l #	83
8) Diethyl Ether	3.67	74	6363	4.550	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	4.07	101	11573	4.156	ug/l	96
10) Methyl Iodide	4.27	142	18742	4.250	ug/l	98
11) Tert butyl alcohol	5.18	59	4479m	20.606	ug/l	
12) 1,1-Dichloroethene	4.04	96	11866	4.112	ug/l	90
13) Acrolein	3.90	56	1208	5.768	ug/l	86
14) Allyl chloride	4.67	41	17496	3.945	ug/l	98
15) Acrylonitrile	5.37	53	13158	20.132	ug/l	99
16) Acetone	4.14	43	13276	22.208	ug/l	96
17) Carbon Disulfide	4.38	76	33078	4.084	ug/l	95
18) Methyl Acetate	4.67	43	8500	4.964	ug/l	96
19) Methyl tert-butyl Ether	5.43	73	18824	4.314	ug/l	99
20) Methylene Chloride	4.92	84	25314	7.692	ug/l	96
21) trans-1,2-Dichloroethene	5.42	96	13276	4.329	ug/l	94
22) Diisopropyl ether	6.31	45	35254	4.243	ug/l #	89
23) Vinyl Acetate	6.26	43	90774	18.197	ug/l	96
24) 1,1-Dichloroethane	6.21	63	21535	4.240	ug/l	98
25) 2-Butanone	7.18	43	19453	22.081	ug/l #	86
26) 2,2-Dichloropropane	7.15	77	16896	5.161	ug/l	90
27) cis-1,2-Dichloroethene	7.16	96	13701	4.223	ug/l	90
28) Bromochloromethane	7.51	49	8384	4.629	ug/l #	99
29) Tetrahydrofuran	7.53	42	11224	20.845	ug/l	97
30) Chloroform	7.67	83	21561	4.389	ug/l	94
31) Cyclohexane	7.96	56	25556	4.754	ug/l #	79
32) 1,1,1-Trichloroethane	7.87	97	16220	4.062	ug/l	98
36) 1,1-Dichloropropene	8.08	75	17683	4.065	ug/l	100
37) Ethyl Acetate	7.26	43	9081	4.601	ug/l #	94
38) Carbon Tetrachloride	8.07	117	15628	4.053	ug/l #	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	22403	3.975	ug/l	95
40) Benzene	8.32	78	50823	4.185	ug/l	100
41) Methacrylonitrile	7.48	41	4578	4.079	ug/l	98
42) 1,2-Dichloroethane	8.40	62	12839	4.183	ug/l	96
43) Isopropyl Acetate	8.42	43	14276	4.004	ug/l	98
44) Trichloroethene	9.09	130	14763	4.262	ug/l	82
45) 1,2-Dichloropropane	9.37	63	12338	4.233	ug/l	94
46) Dibromomethane	9.45	93	6077	4.185	ug/l	98
47) Bromodichloromethane	9.65	83	15231	4.220	ug/l #	98
48) Methyl methacrylate	9.43	41	7606	4.330	ug/l	92
49) 1,4-Dioxane	9.46	88	2082	81.664	ug/l #	99
51) 4-Methyl-2-Pentanone	10.21	43	40104	21.393	ug/l	100
52) Toluene	10.38	92	32848	4.200	ug/l	99
53) t-1,3-Dichloropropene	10.61	75	14618	3.898	ug/l	95
54) cis-1,3-Dichloropropene	10.07	75	17720	3.900	ug/l	97
55) 1,1,2-Trichloroethane	10.79	97	9265	4.251	ug/l	94
56) Ethyl methacrylate	10.65	69	10706	3.647	ug/l	92
57) 1,3-Dichloropropane	10.93	76	15102	4.036	ug/l	94
58) 2-Chloroethyl Vinyl ether	9.93	63	25411	18.350	ug/l	99
59) 2-Hexanone	10.97	43	23184	18.035	ug/l	97
60) Dibromochloromethane	11.13	129	9714	3.876	ug/l	95
61) 1,2-Dibromoethane	11.24	107	8839	4.264	ug/l	96
64) Tetrachloroethene	10.86	164	13163	4.257	ug/l	96
65) Chlorobenzene	11.66	112	34265	4.105	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.73	131	12039	4.152	ug/l	97
67) Ethyl Benzene	11.73	91	60142	3.942	ug/l	97
68) m/p-Xylenes	11.84	106	47345	8.156	ug/l	99
69) o-Xylene	12.16	106	21134	3.940	ug/l	99
70) Styrene	12.18	104	36516	3.965	ug/l	99
71) Bromoform	12.35	173	6061	3.810	ug/l #	94
73) Isopropylbenzene	12.46	105	59209	3.955	ug/l	99
74) N-amyl acetate	12.27	43	12037	3.677	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.72	83	10161	3.982	ug/l	99
76) 1,2,3-Trichloropropane	12.77	75	8343m	4.793	ug/l	
77) Bromobenzene	12.74	156	14666	4.133	ug/l	98
78) n-propylbenzene	12.80	91	68446	3.954	ug/l	98
79) 2-Chlorotoluene	12.89	91	39652	4.089	ug/l	99
80) 1,3,5-Trimethylbenzene	12.94	105	50273	4.042	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.51	75	3043	3.574	ug/l	92
82) 4-Chlorotoluene	12.99	91	41414	4.114	ug/l	98
83) tert-Butylbenzene	13.21	119	44556	4.034	ug/l	99
84) 1,2,4-Trimethylbenzene	13.25	105	50362	4.094	ug/l	98
85) sec-Butylbenzene	13.38	105	59977	3.930	ug/l	100
86) p-Isopropyltoluene	13.50	119	56149	4.004	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	28681	4.263	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	29684	4.504	ug/l	96
89) n-Butylbenzene	13.82	91	48602	3.837	ug/l	99
90) Hexachloroethane	14.09	117	9794	4.082	ug/l	93
91) 1,2-Dichlorobenzene	13.87	146	24758	4.168	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.49	75	1771	4.354	ug/l	84

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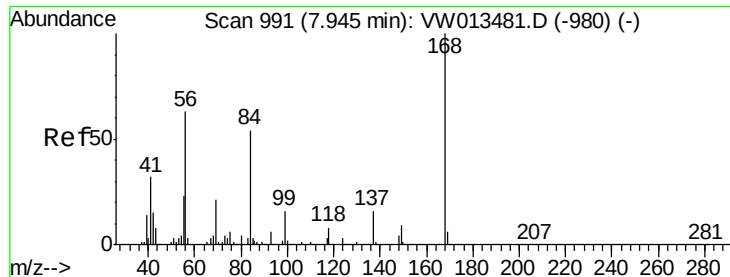
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	16249	3.870	ug/l	98
94) Hexachlorobutadiene	15.23	225	12569	4.505	ug/l	98
95) Naphthalene	15.36	128	26054	3.588	ug/l	100
96) 1,2,3-Trichlorobenzene	15.56	180	14790	4.029	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW013489.D

Acq: 08 Oct 2019 16:19

Instrument :

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ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion:168 Resp: 332497

Ion Ratio Lower Upper

168 100

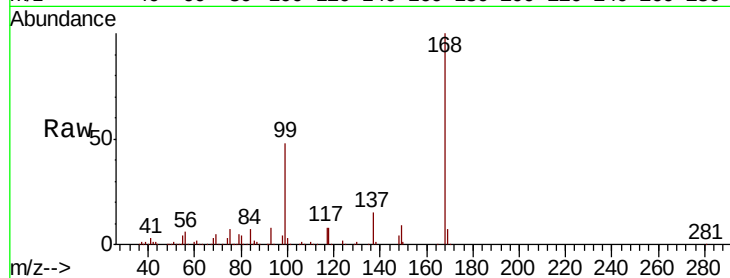
99 48.0 38.3 57.5

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

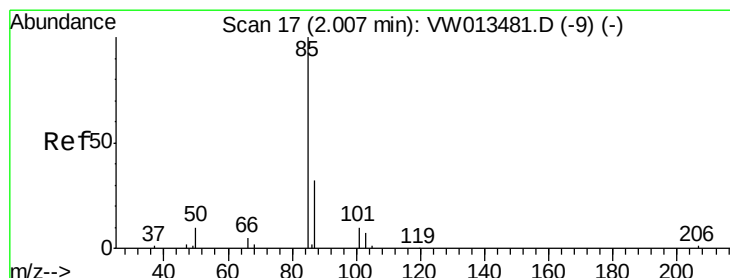
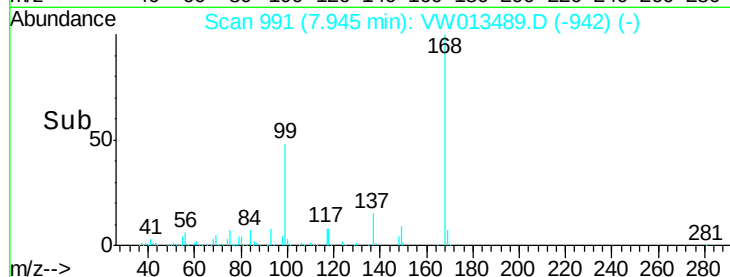
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: 4.209 ug/l

RT: 2.00 min Scan# 16

Delta R.T. -0.01 min

Lab File: VW013489.D

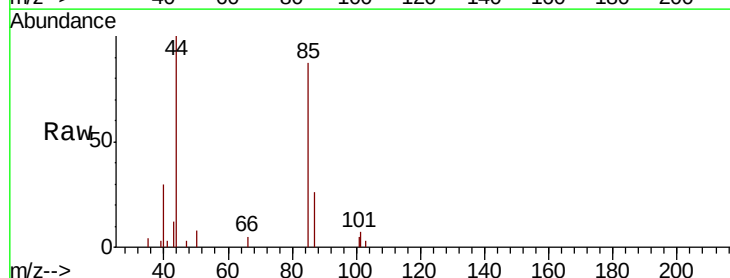
Acq: 08 Oct 2019 16:19

Tgt Ion: 85 Resp: 4636

Ion Ratio Lower Upper

85 100

87 30.3 15.8 47.3



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2000

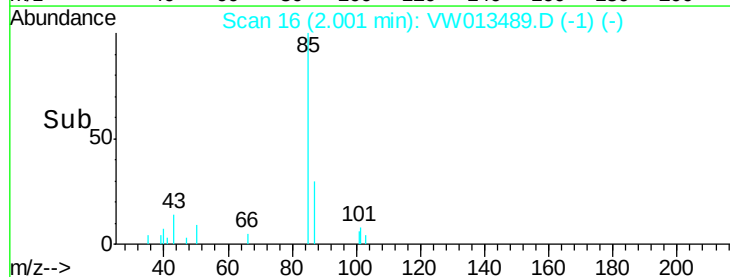
1500

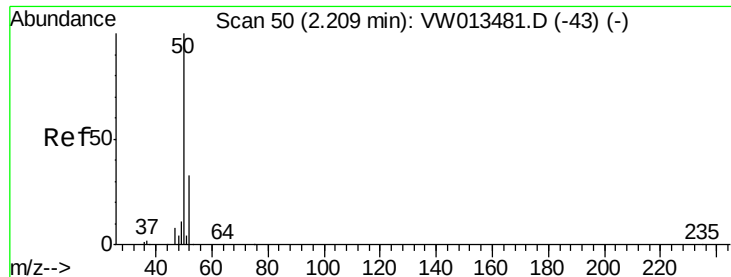
1000

500

0

Time--> 1.95 2.00 2.05 2.10





#3

Chloromethane

Concen: 4.689 ug/l

RT: 2.21 min Scan# 50

Delta R.T. 0.00 min

Lab File: VW013489.D

Acq: 08 Oct 2019 16:19

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 50 Resp: 9078

Ion Ratio Lower Upper

50 100

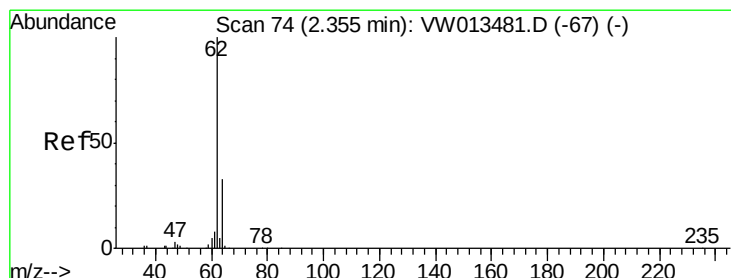
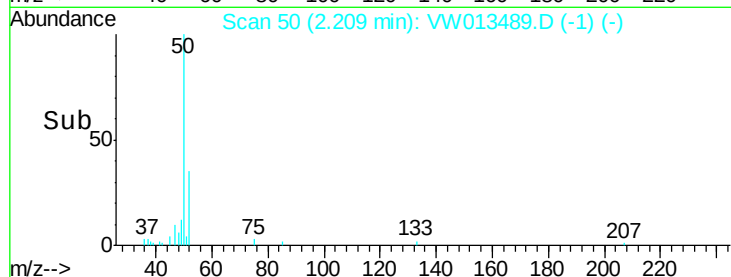
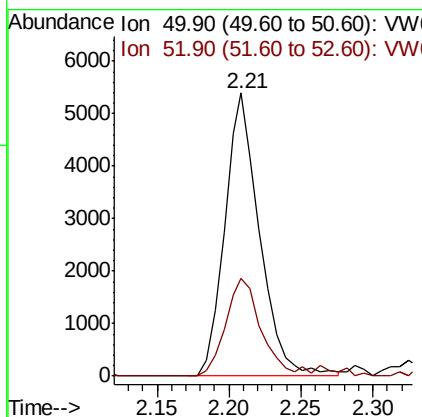
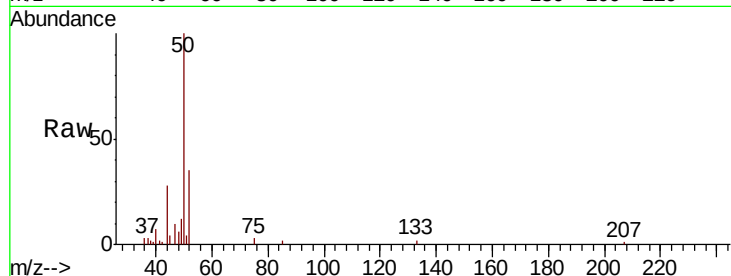
52 34.8 26.0 39.0

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#4

Vinyl Chloride

Concen: 4.202 ug/l

RT: 2.35 min Scan# 74

Delta R.T. 0.00 min

Lab File: VW013489.D

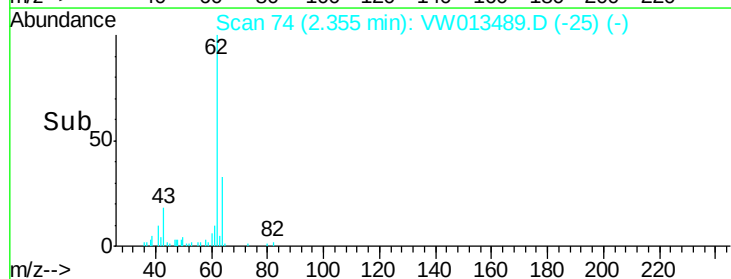
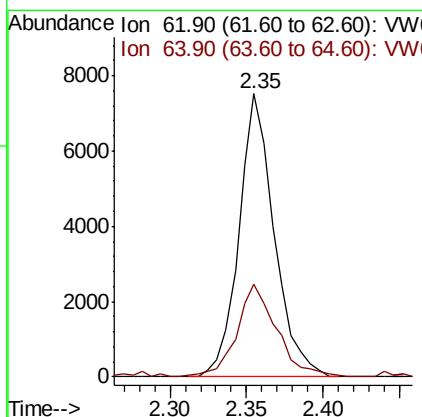
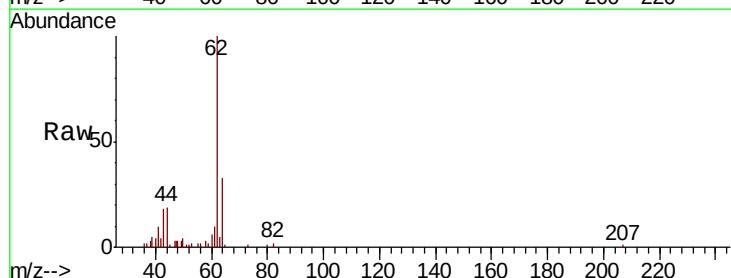
Acq: 08 Oct 2019 16:19

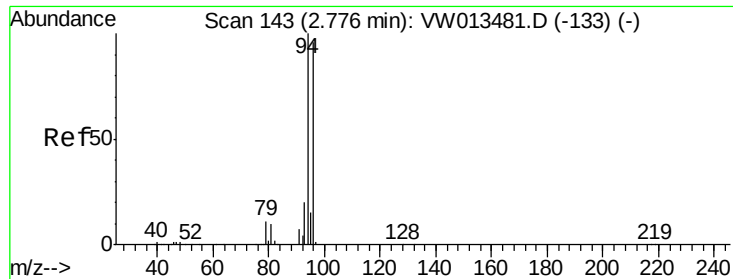
Tgt Ion: 62 Resp: 12000

Ion Ratio Lower Upper

62 100

64 32.1 26.6 39.8





#5

Bromomethane

Concen: 4.658 ug/l

RT: 2.77 min Scan# 142

Delta R.T. -0.01 min

Lab File: VW013489.D

Acq: 08 Oct 2019 16:19

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Tot Ion: 94 Resp: 7937

Ion Ratio Lower Upper

94 100

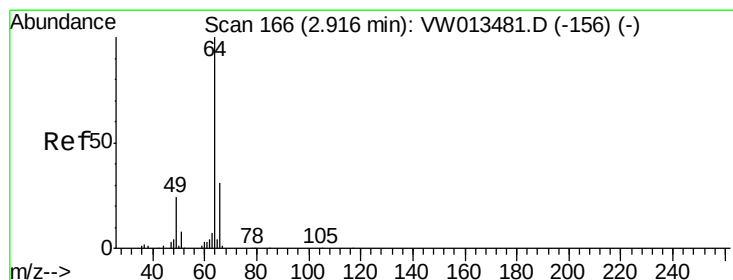
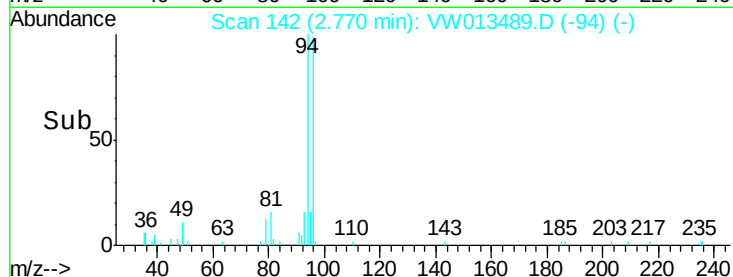
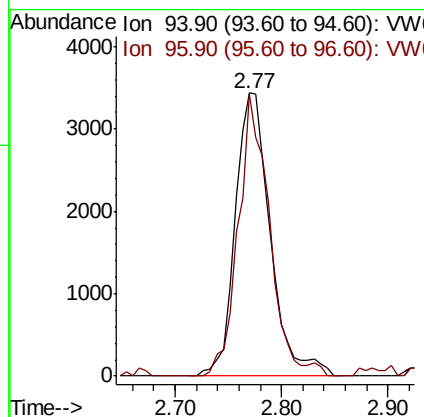
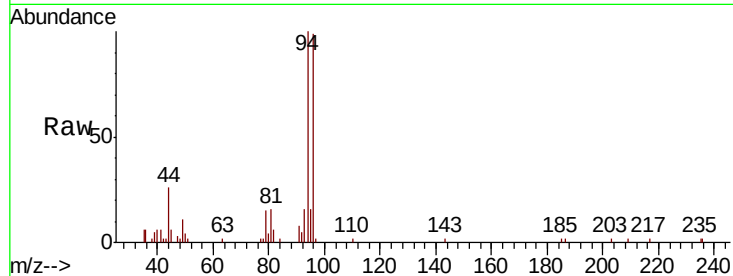
96 99.4 77.0 115.6

Manual Integrations

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#6

Chloroethane

Concen: 4.470 ug/l

RT: 2.92 min Scan# 167

Delta R.T. 0.01 min

Lab File: VW013489.D

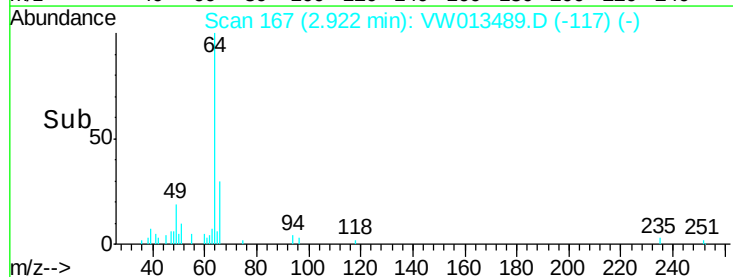
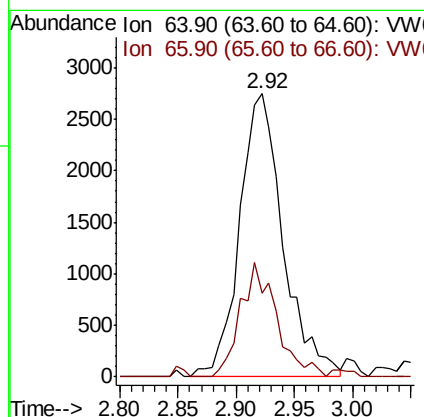
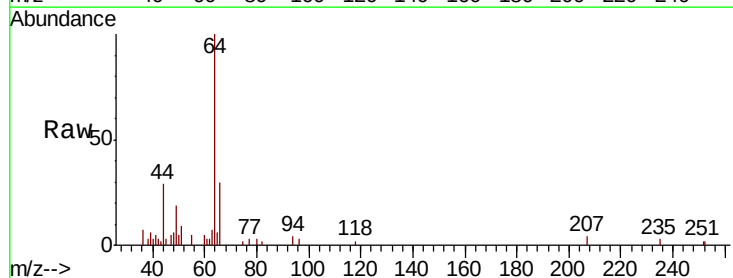
Acq: 08 Oct 2019 16:19

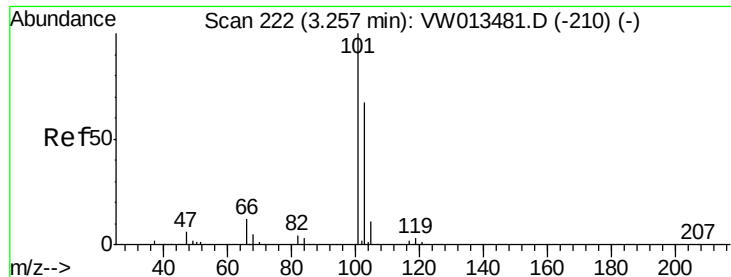
Tgt Ion: 64 Resp: 7169

Ion Ratio Lower Upper

64 100

66 29.8 25.0 37.4





#7

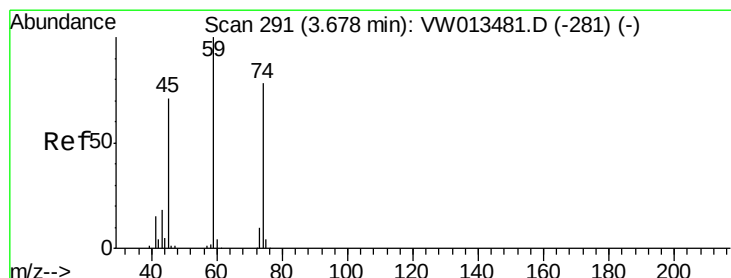
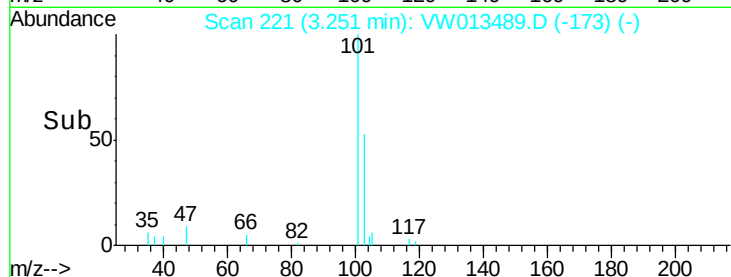
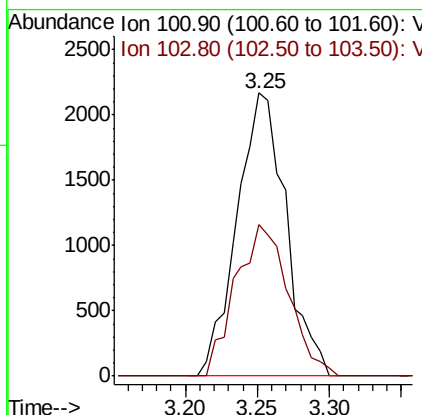
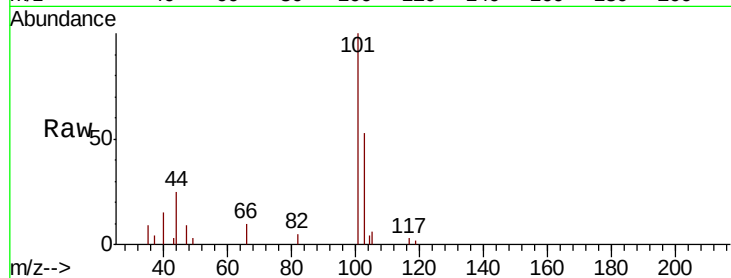
Trichlorofluoromethane
Concen: 3.794 ug/l
RT: 3.25 min Scan# 221
Delta R.T. -0.01 min
Lab File: VW013489.D
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Tot Ion	Ratio	Lower	Upper
101	100		
103	53.4	53.7	80.5#

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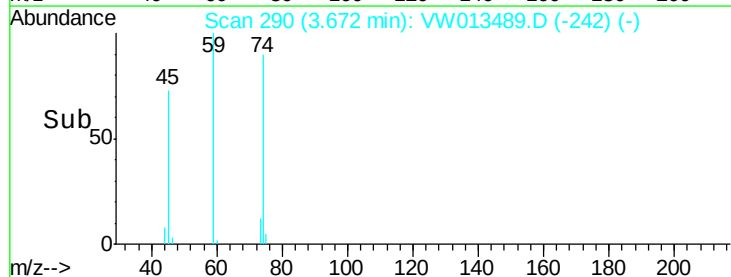
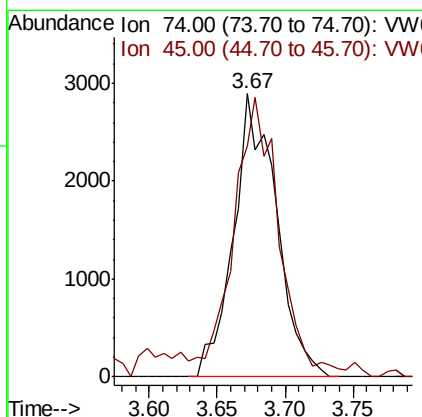
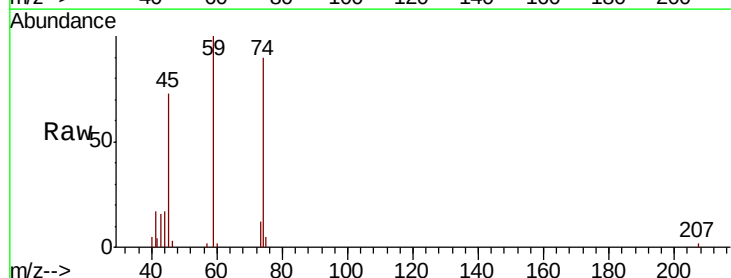
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10/9/2019 4:10:01 PM

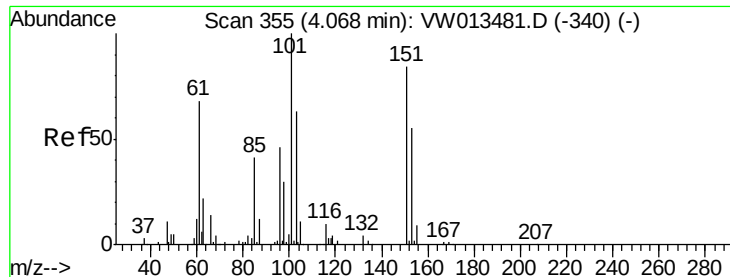


#8

Diethyl Ether
Concen: 4.550 ug/l
RT: 3.67 min Scan# 290
Delta R.T. -0.01 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

Tgt Ion	Ratio	Lower	Upper
74	100		
45	99.2	50.0	150.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.156 ug/l

RT: 4.07 min Scan# 355

Delta R.T. 0.00 min

Lab File: VW013489.D

Acq: 08 Oct 2019 16:19

Instrument :

MSVOA_W

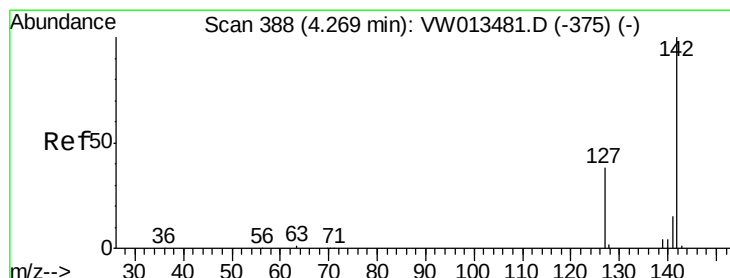
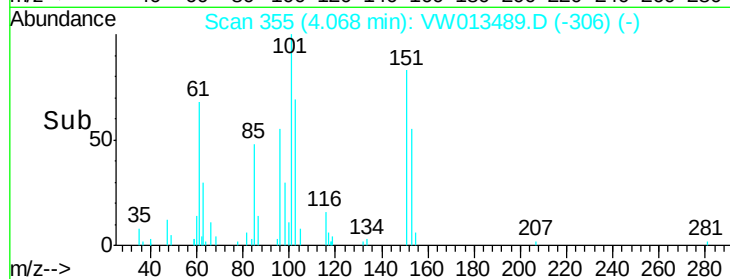
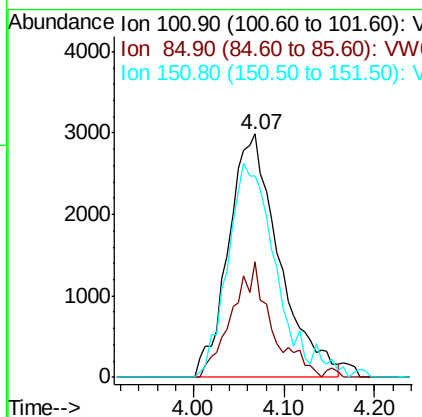
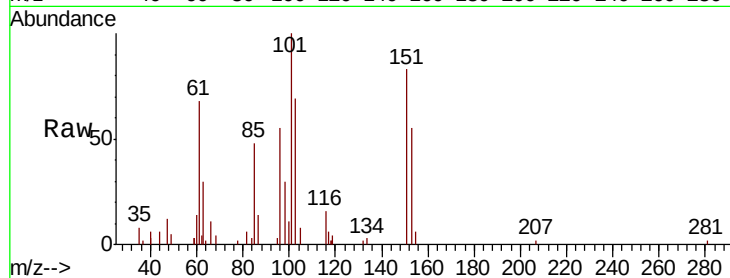
ClientSampleId :

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Tot Ion:	101	Resp:	11573
Ion Ratio	Lower	Upper	
101	100		
85	37.3	31.6	47.4
151	80.4	67.5	101.3

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#10

Methyl Iodide

Concen: 4.250 ug/l

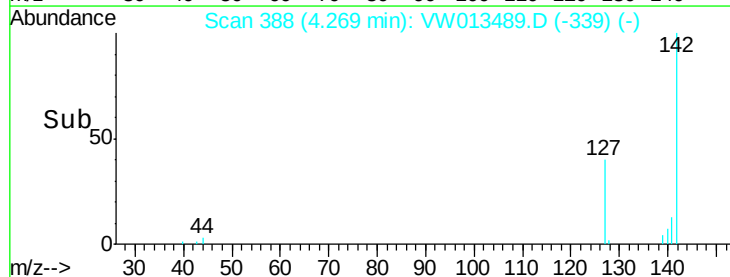
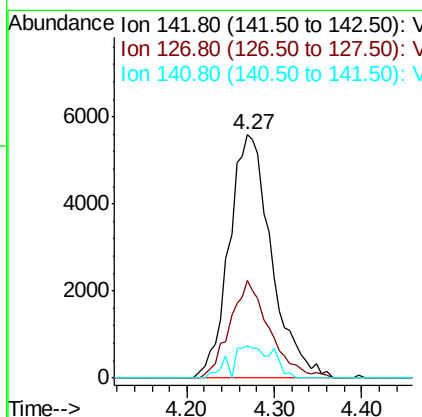
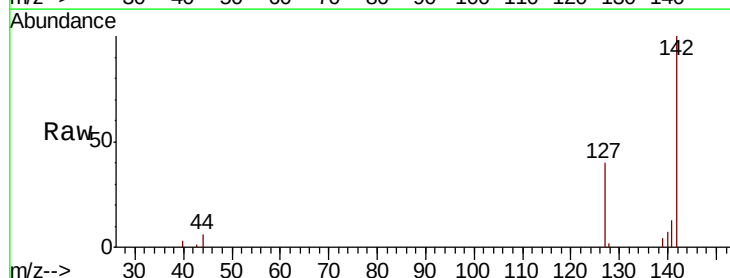
RT: 4.27 min Scan# 388

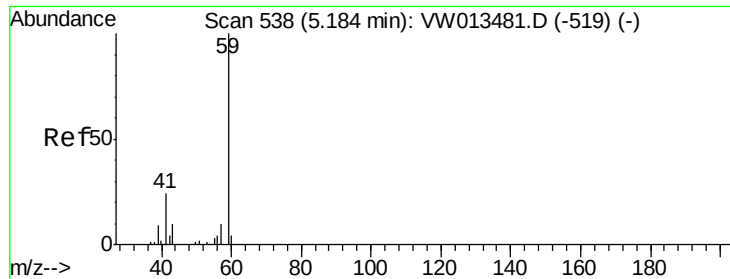
Delta R.T. 0.00 min

Lab File: VW013489.D

Acq: 08 Oct 2019 16:19

Tgt Ion:	142	Resp:	18742
Ion Ratio	Lower	Upper	
142	100		
127	37.7	29.6	44.4
141	13.3	12.1	18.1





#11

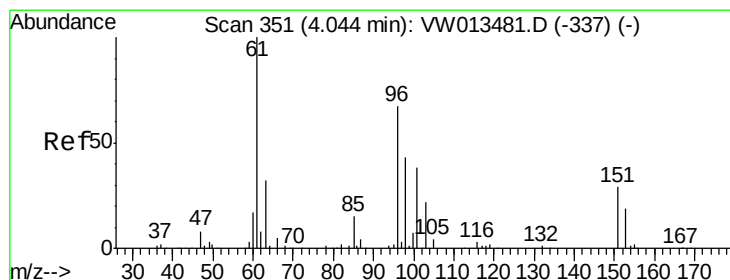
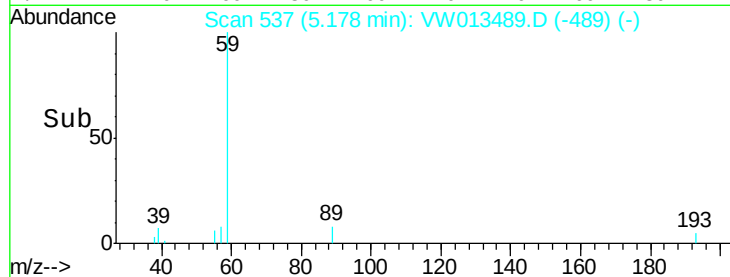
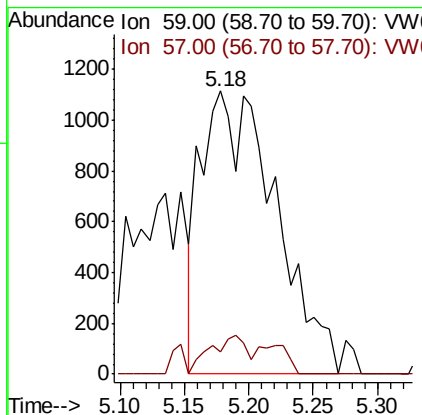
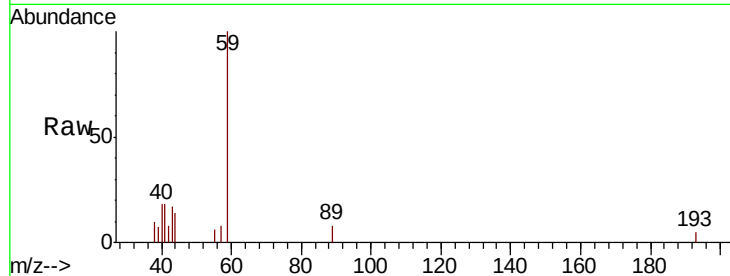
Tert butyl alcohol
Concen: 20.606 ug/l m
RT: 5.18 min Scan# 537
Delta R.T. -0.01 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

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

Tot Ion: 59 Resp: 4479
Ion Ratio Lower Upper
59 100
57 6.7 8.2 12.4#

Manual Integrations
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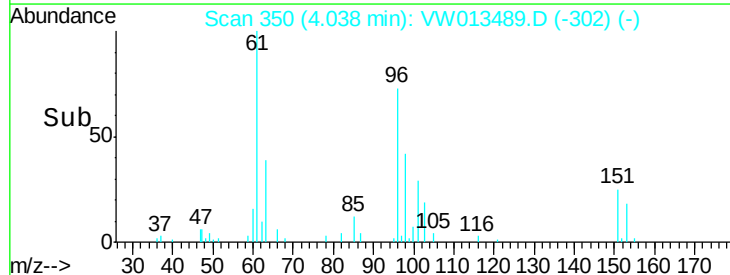
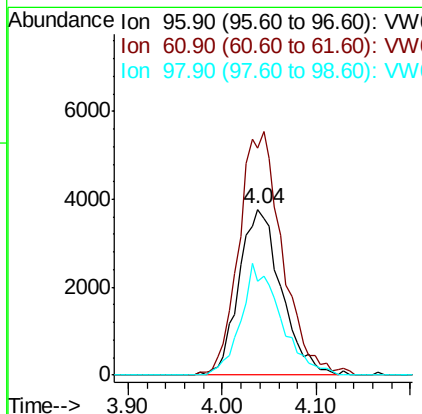
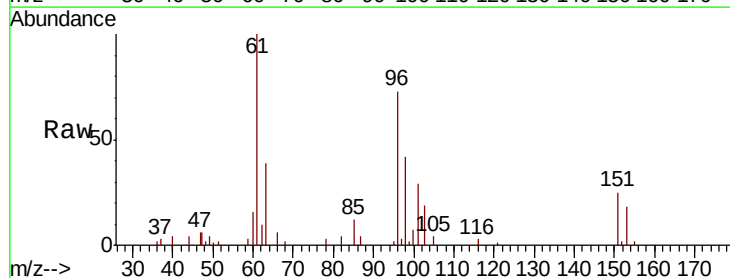
MMDadoda
10/9/2019 4:10:01 PM

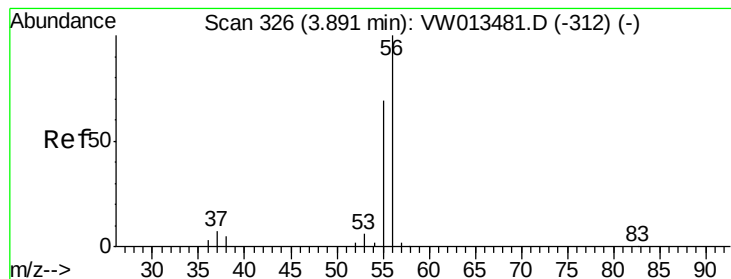


#12

1,1-Dichloroethene
Concen: 4.112 ug/l
RT: 4.04 min Scan# 350
Delta R.T. -0.01 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

Tgt Ion: 96 Resp: 11866
Ion Ratio Lower Upper
96 100
61 136.5 119.4 179.0
98 56.7 51.1 76.7





#13

Acrolein

Concen: 5.768 ug/l

RT: 3.90 min Scan# 327

Delta R.T. 0.01 min

Lab File: VW013489.D

Acq: 08 Oct 2019 16:19

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 56 Resp: 1208

Ion Ratio Lower Upper

56 100

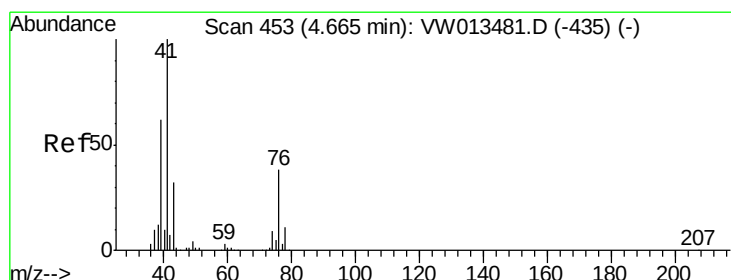
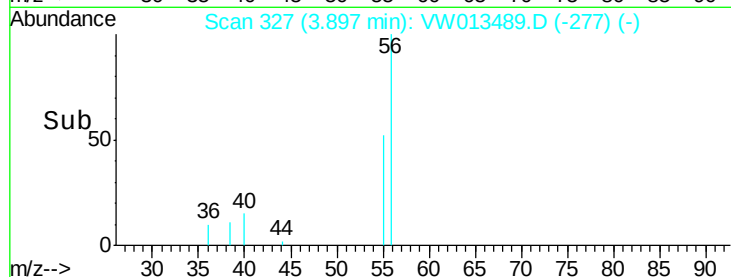
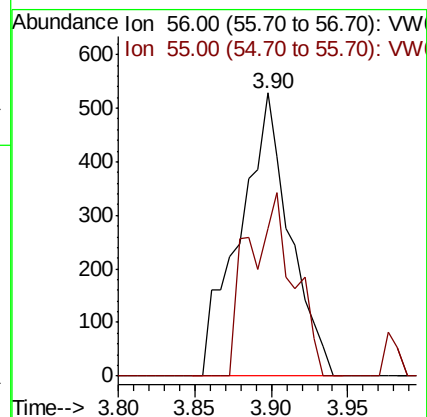
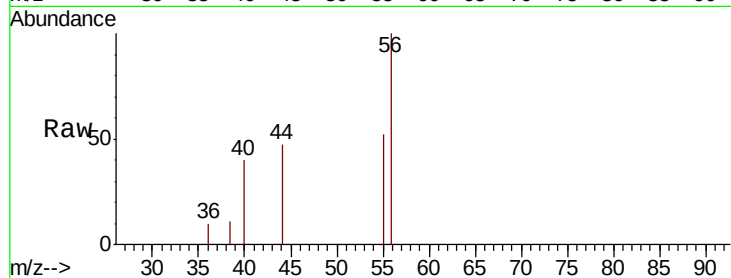
55 58.6 55.9 83.9

Manual Integrations

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MMDadoda

10/9/2019 4:10:01 PM



#14

Allyl chloride

Concen: 3.945 ug/l

RT: 4.67 min Scan# 453

Delta R.T. 0.00 min

Lab File: VW013489.D

Acq: 08 Oct 2019 16:19

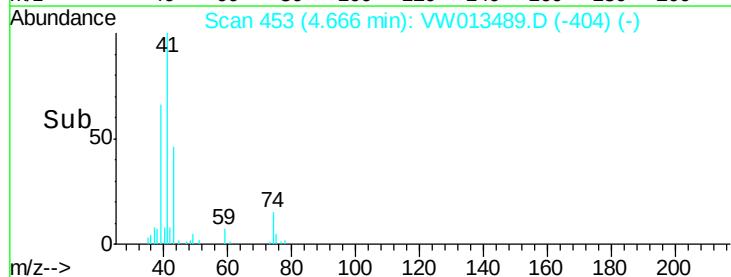
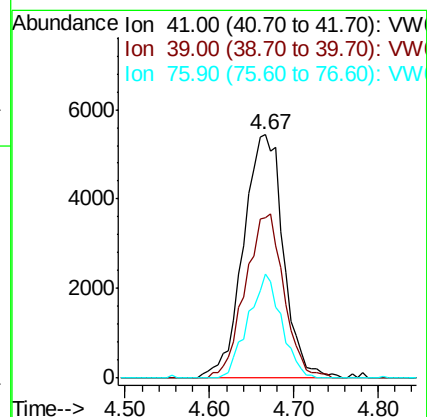
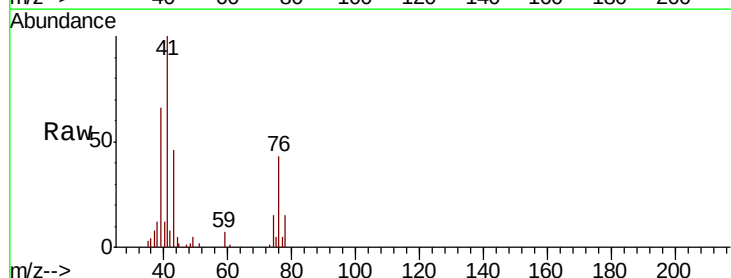
Tgt Ion: 41 Resp: 17496

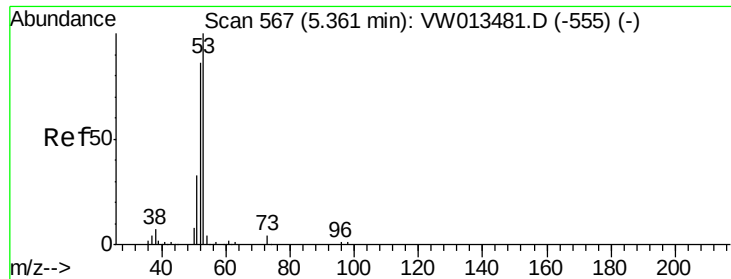
Ion Ratio Lower Upper

41 100

39 65.2 50.1 75.1

76 35.6 29.0 43.4





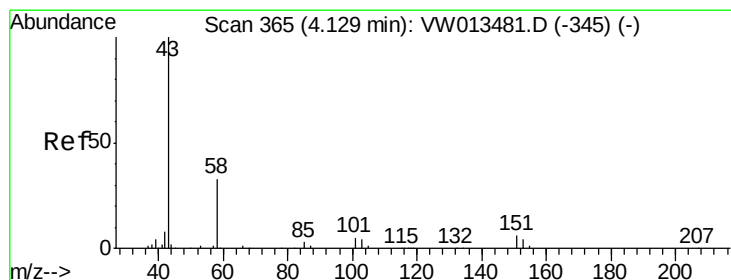
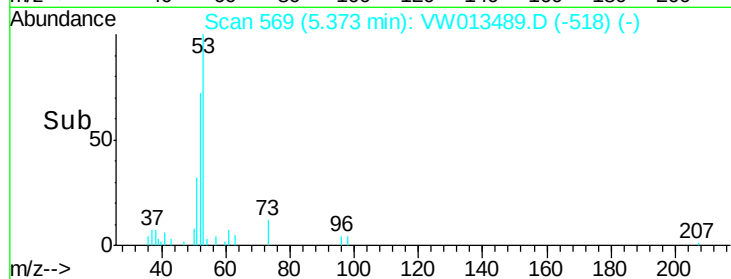
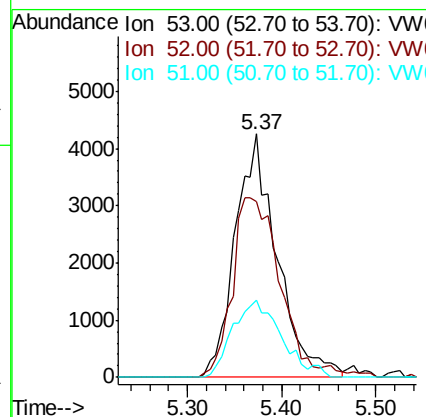
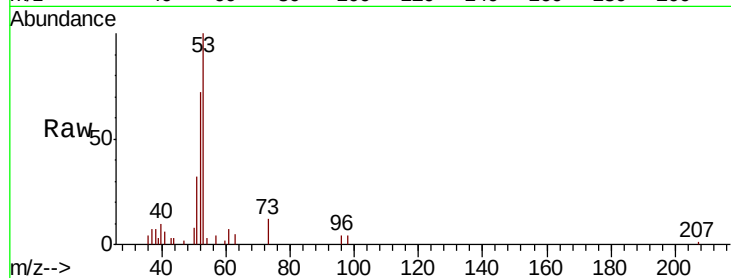
#15
 Acrylonitrile
 Concen: 20.132 ug/l
 RT: 5.37 min Scan# 569
 Delta R.T. 0.01 min
 Lab File: VW013489.D
 Acq: 08 Oct 2019 16:19

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

Tot Ion:	53	Resp:	13158
Ion	Ratio	Lower	Upper
53	100		
52	82.9	65.8	98.8
51	35.7	28.6	42.8

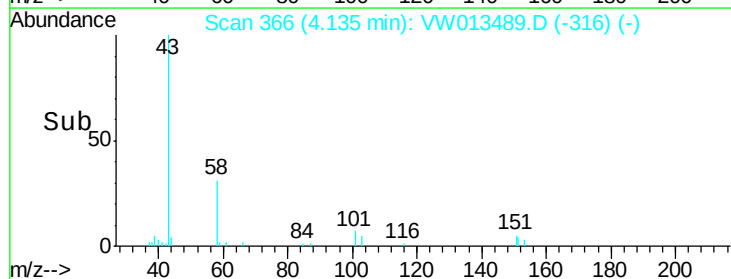
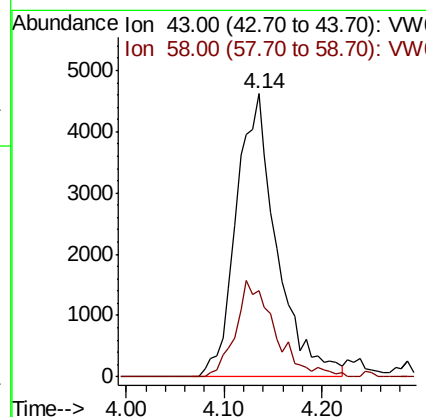
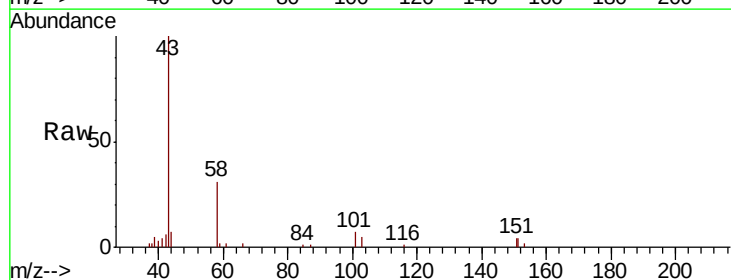
Manual Integrations
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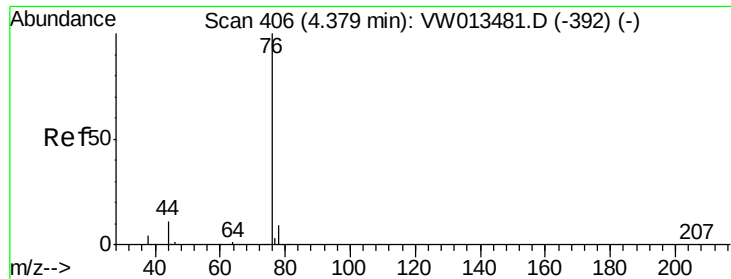
MMDadoda
 10/9/2019 4:10:01 PM



#16
 Acetone
 Concen: 22.208 ug/l
 RT: 4.14 min Scan# 366
 Delta R.T. 0.01 min
 Lab File: VW013489.D
 Acq: 08 Oct 2019 16:19

Tgt Ion:	43	Resp:	13276
Ion	Ratio	Lower	Upper
43	100		
58	30.6	26.1	39.1





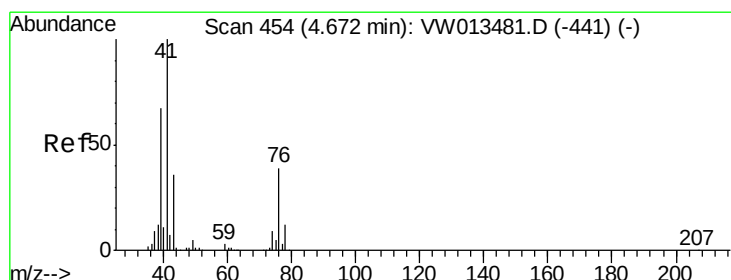
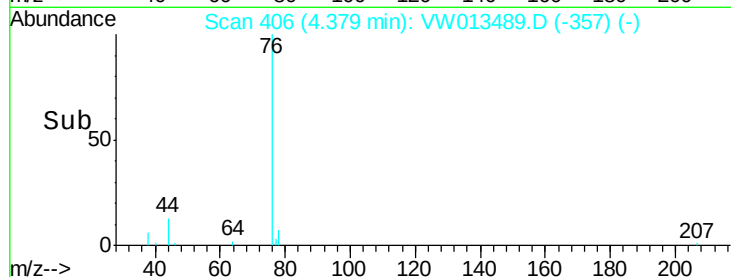
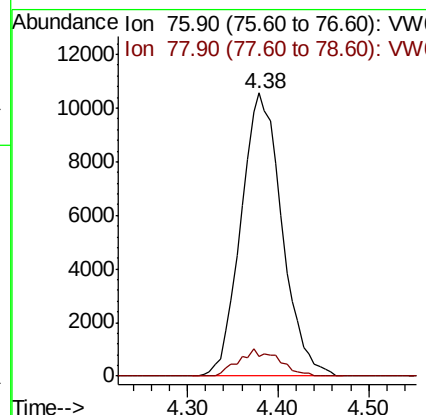
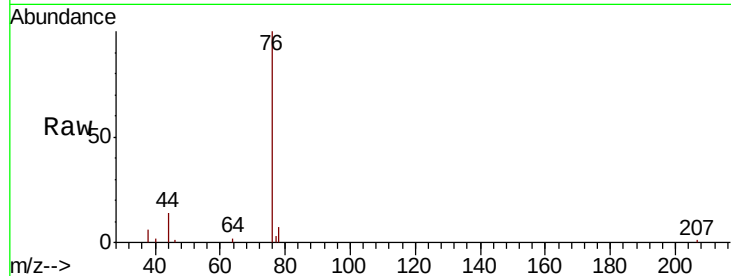
#17
Carbon Disulfide
Concen: 4.084 ug/l
RT: 4.38 min Scan# 406
Delta R.T. 0.00 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

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

Tot Ion	Ratio	Lower	Upper
76	100		
78	7.2	7.1	10.7

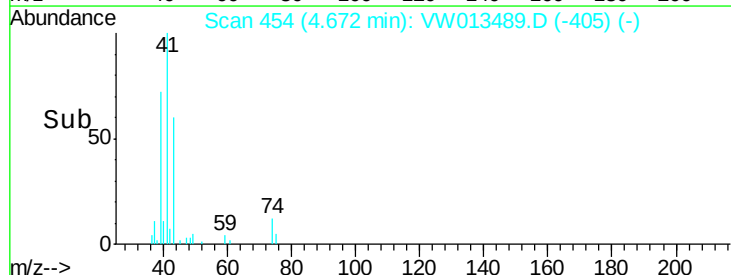
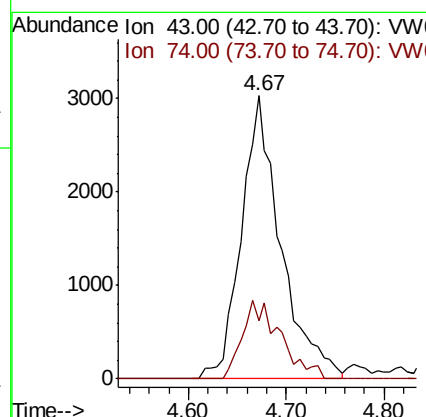
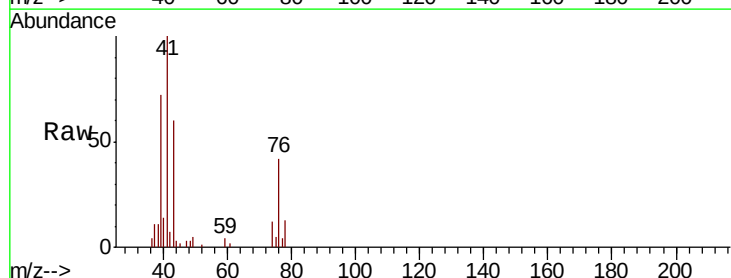
Manual Integrations
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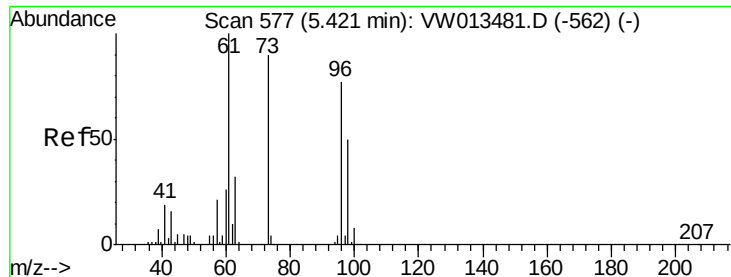
MMDadoda
10/9/2019 4:10:01 PM



#18
Methyl Acetate
Concen: 4.964 ug/l
RT: 4.67 min Scan# 454
Delta R.T. 0.00 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

Tgt Ion	Ratio	Lower	Upper
43	100		
74	26.7	19.6	29.4





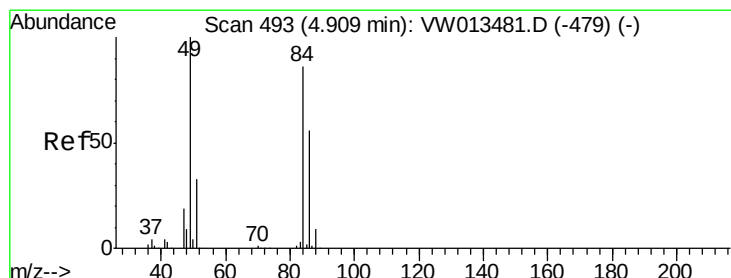
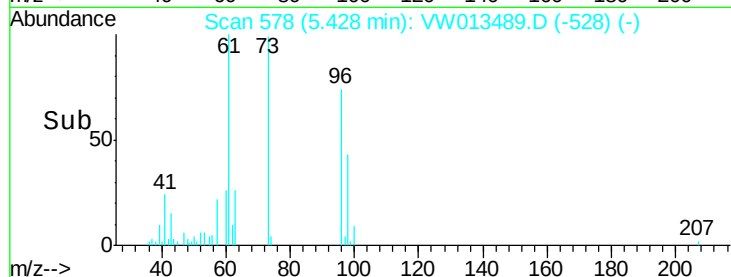
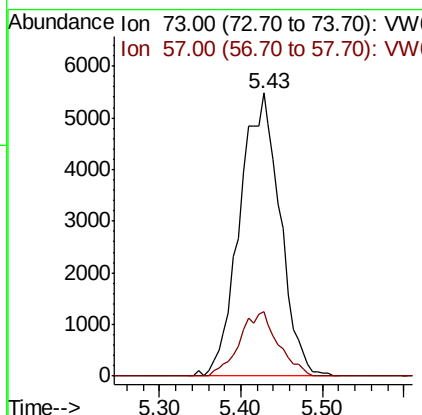
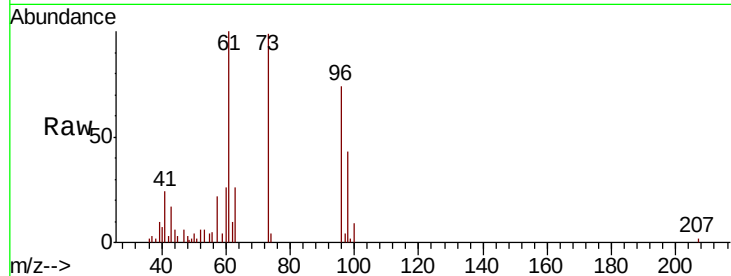
#19
Methyl tert-butyl Ether
Concen: 4.314 ug/l
RT: 5.43 min Scan# 578
Delta R.T. 0.01 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

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

Tot Ion: 73 Resp: 18824
Ion Ratio Lower Upper
73 100
57 22.7 18.6 27.8

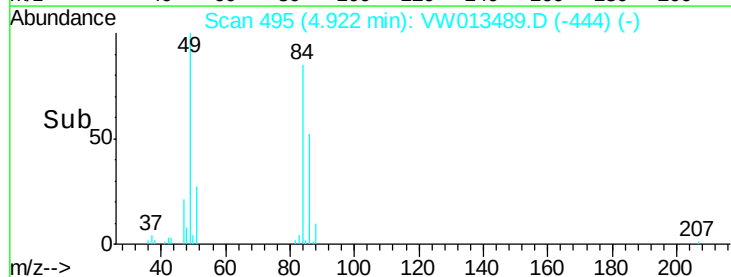
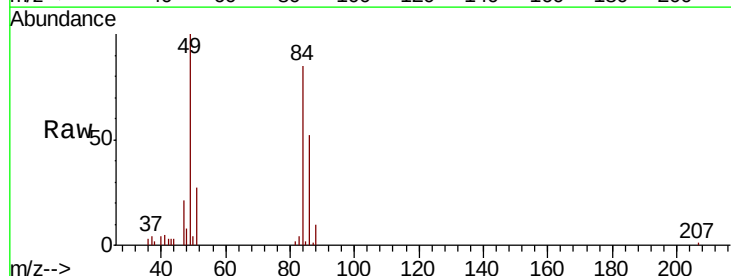
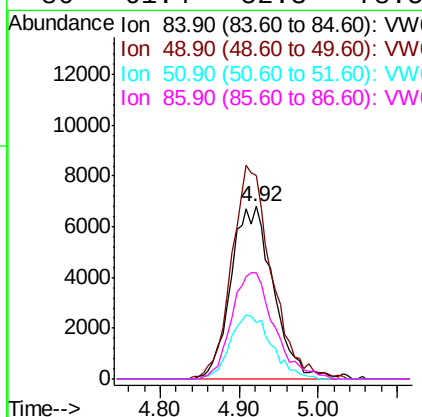
Manual Integrations
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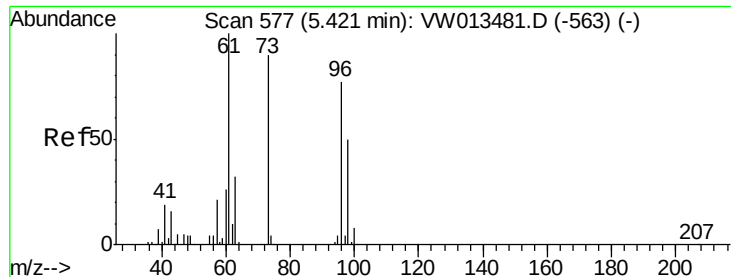
MMDadoda
10/9/2019 4:10:01 PM



#20
Methylene Chloride
Concen: 7.692 ug/l
RT: 4.92 min Scan# 495
Delta R.T. 0.01 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

Tgt Ion: 84 Resp: 25314
Ion Ratio Lower Upper
84 100
49 118.1 93.4 140.0
51 32.5 30.6 46.0
86 61.4 52.3 78.5





#21

trans-1,2-Dichloroethene

Concen: 4.329 ug/l

RT: 5.42 min Scan# 577

Delta R.T. 0.00 min

Lab File: VW013489.D

Acq: 08 Oct 2019 16:19

Instrument :

MSVOA_W

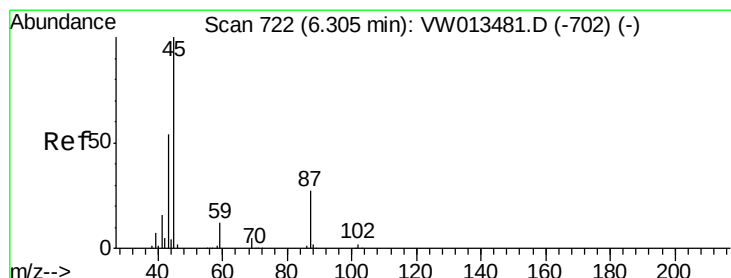
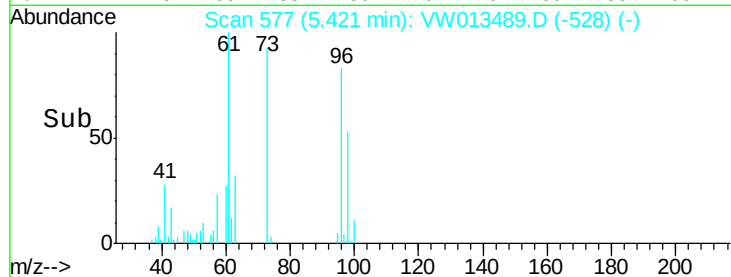
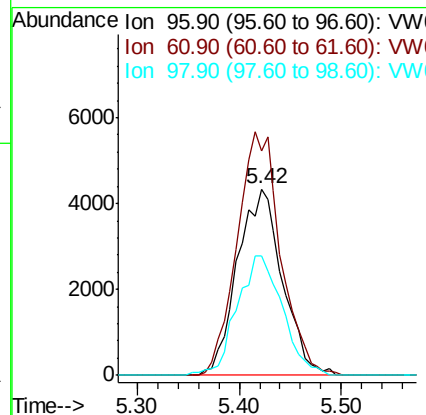
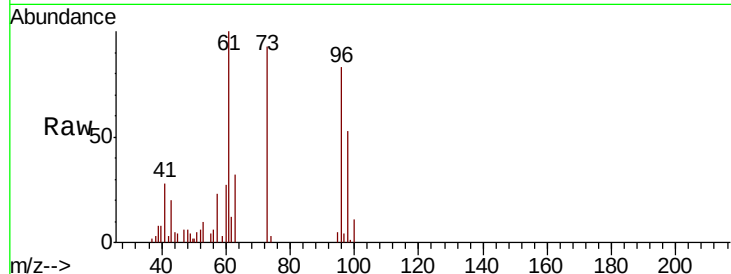
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion:	96	Resp:	13276
Ion	Ratio	Lower	Upper
96	100		
61	120.4	104.3	156.5
98	64.4	51.8	77.8

Manual Integrations
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MMDadoda
10/9/2019 4:10:01 PM



#22

Diisopropyl ether

Concen: 4.243 ug/l

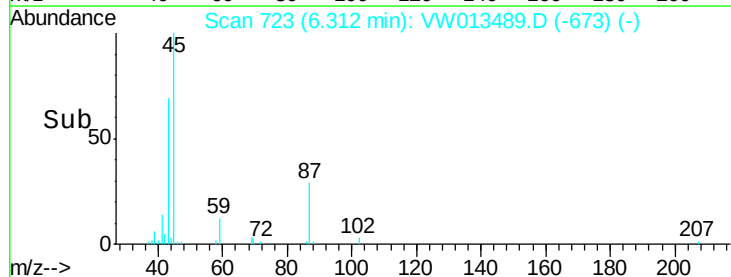
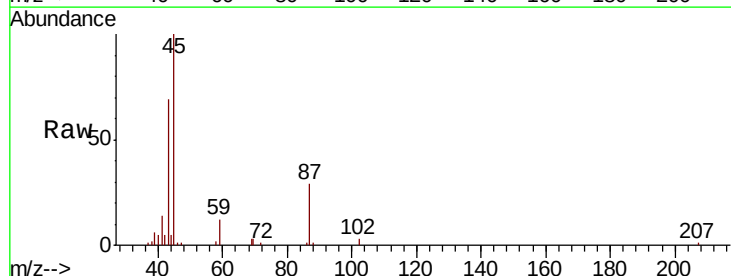
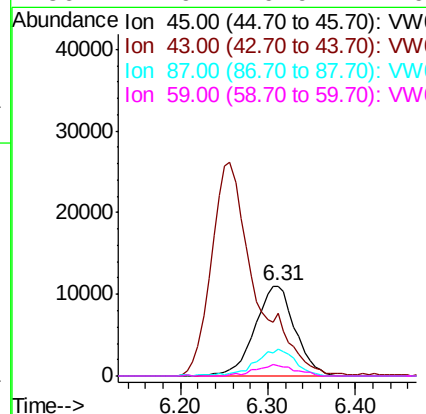
RT: 6.31 min Scan# 723

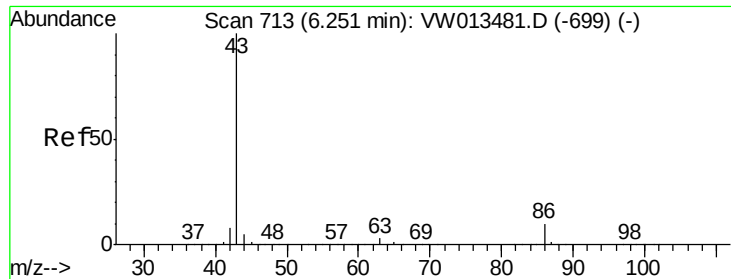
Delta R.T. 0.01 min

Lab File: VW013489.D

Acq: 08 Oct 2019 16:19

Tgt Ion:	45	Resp:	35254
Ion	Ratio	Lower	Upper
45	100		
43	66.5	43.4	65.0#
87	29.3	22.1	33.1
59	11.9	9.9	14.9





#23

Vinyl Acetate

Concen: 18.197 ug/l

RT: 6.26 min Scan# 714

Delta R.T. 0.01 min

Lab File: VW013489.D

Acq: 08 Oct 2019 16:19

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 43 Resp: 90774

Ion Ratio Lower Upper

43 100

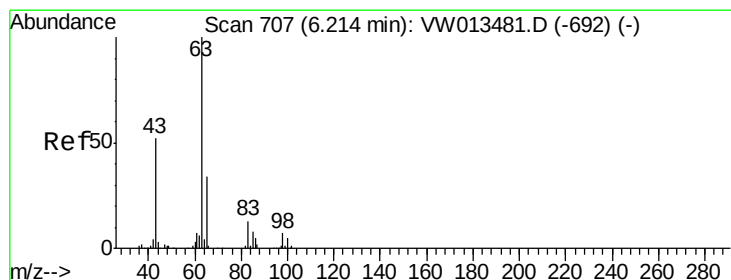
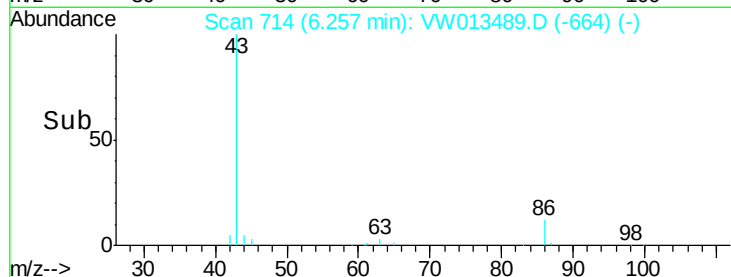
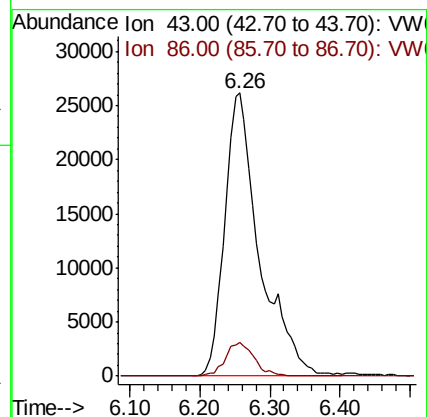
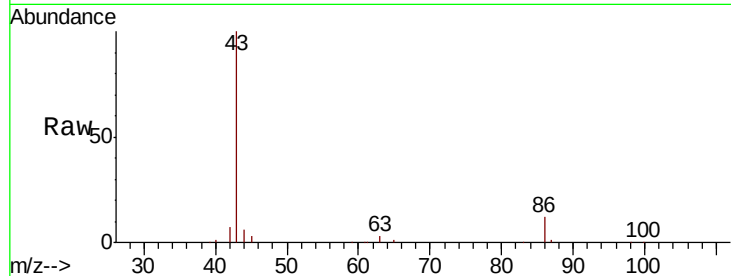
86 11.9 8.3 12.5

Manual Integrations

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MMDadoda

10/9/2019 4:10:01 PM



#24

1,1-Dichloroethane

Concen: 4.240 ug/l

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW013489.D

Acq: 08 Oct 2019 16:19

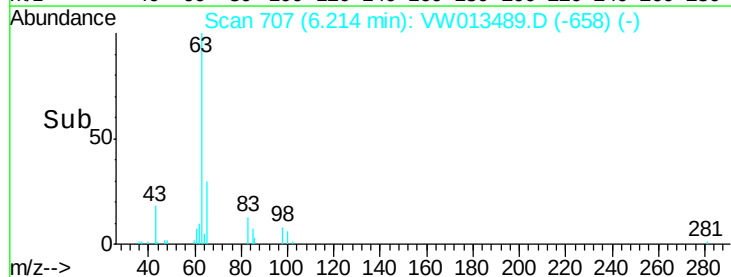
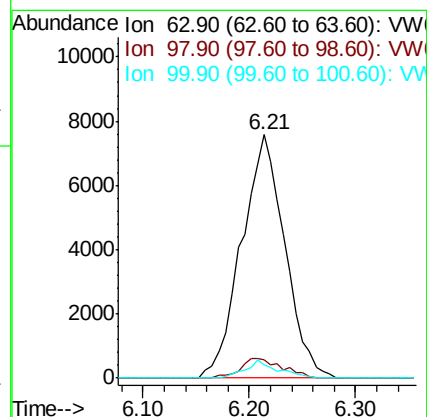
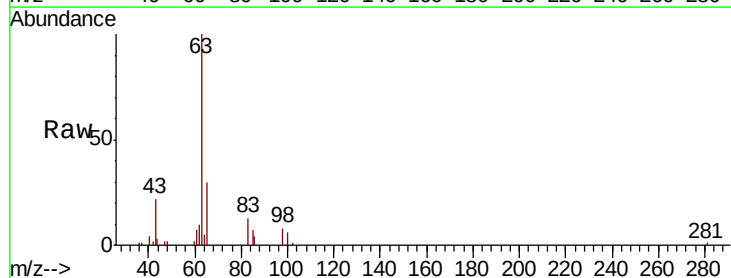
Tgt Ion: 63 Resp: 21535

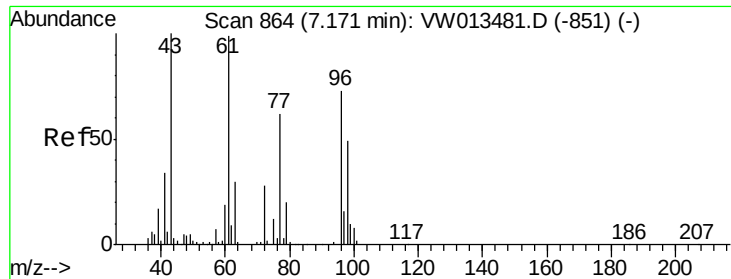
Ion Ratio Lower Upper

63 100

98 7.6 3.5 10.6

100 5.5 2.3 6.8





#25

2-Butanone

Concen: 22.081 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW013489.D

Acq: 08 Oct 2019 16:19

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 43 Resp: 19453

Ion Ratio Lower Upper

43 100

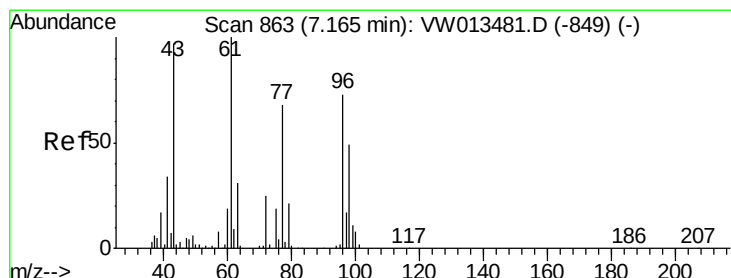
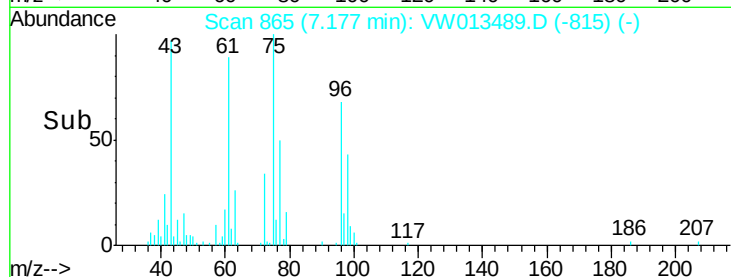
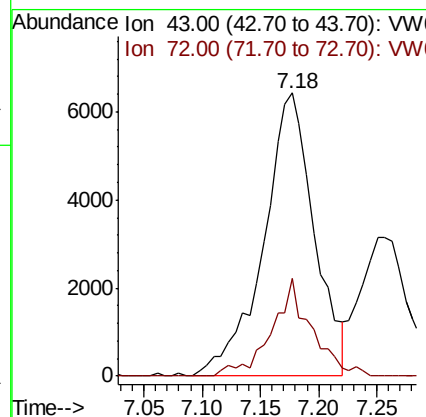
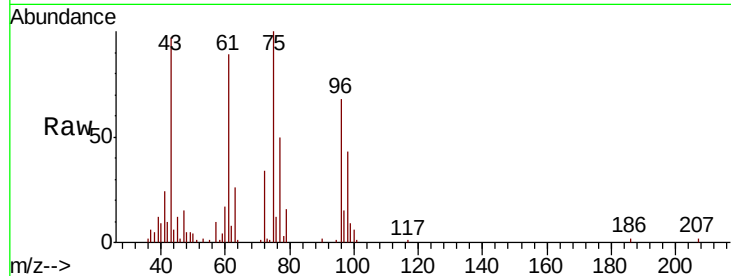
72 34.7 22.1 33.1#

Manual Integrations

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MMDadoda

10/9/2019 4:10:01 PM



#26

2,2-Dichloropropane

Concen: 5.161 ug/l

RT: 7.15 min Scan# 861

Delta R.T. -0.01 min

Lab File: VW013489.D

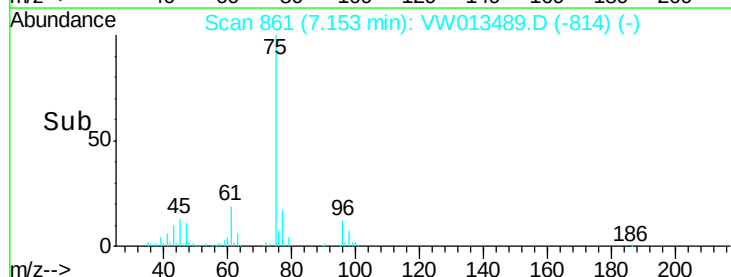
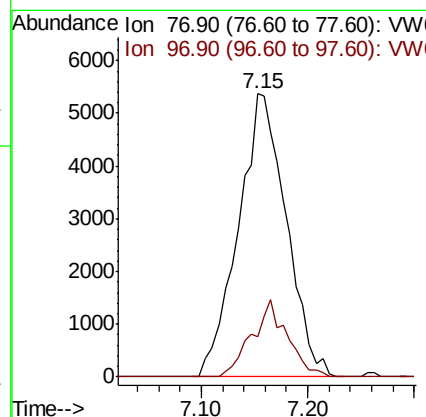
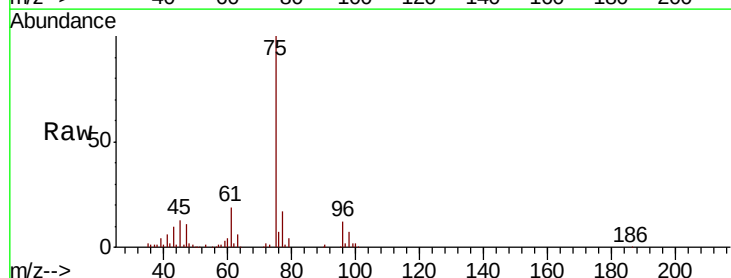
Acq: 08 Oct 2019 16:19

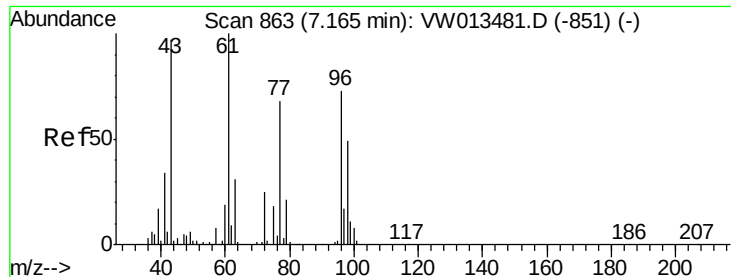
Tgt Ion: 77 Resp: 16896

Ion Ratio Lower Upper

77 100

97 20.1 12.6 37.6





#27

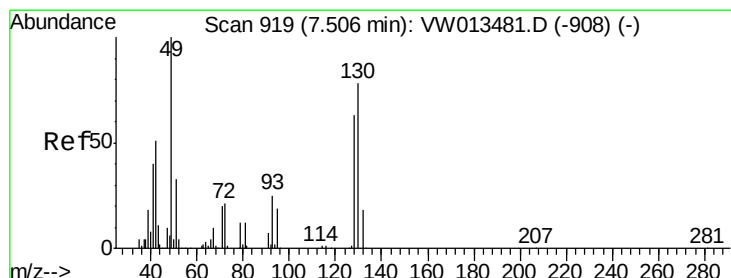
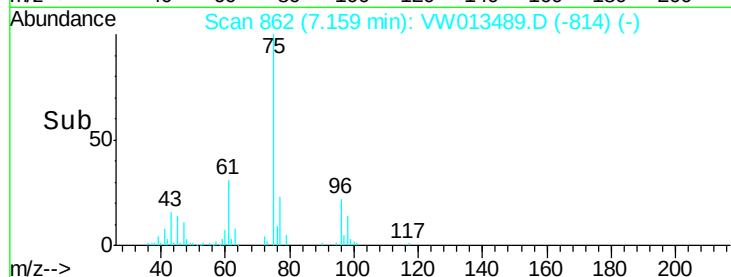
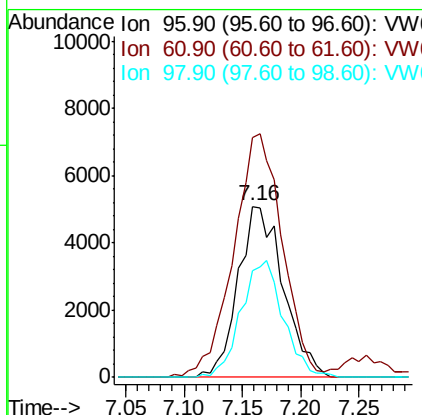
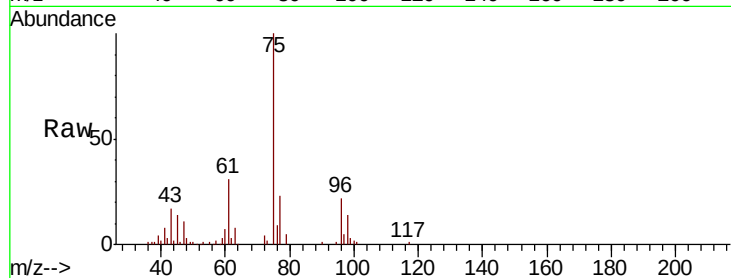
cis-1,2-Dichloroethene
 Concen: 4.223 ug/l
 RT: 7.16 min Scan# 862
 Delta R.T. -0.01 min
 Lab File: VW013489.D
 Acq: 08 Oct 2019 16:19

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

Tot Ion	Ratio	Lower	Upper
96	100		
61	153.7	0.0	274.4
98	64.0	0.0	130.2

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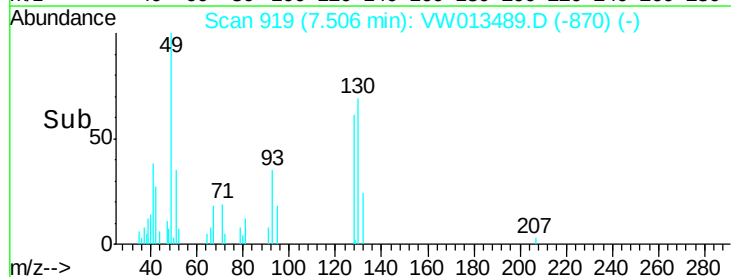
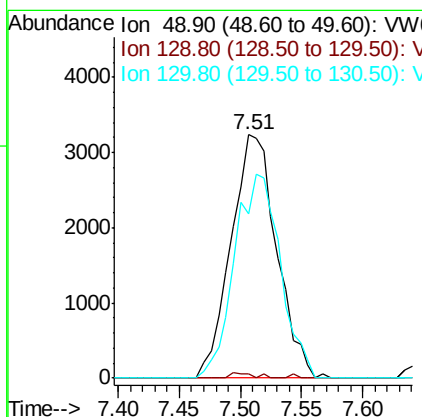
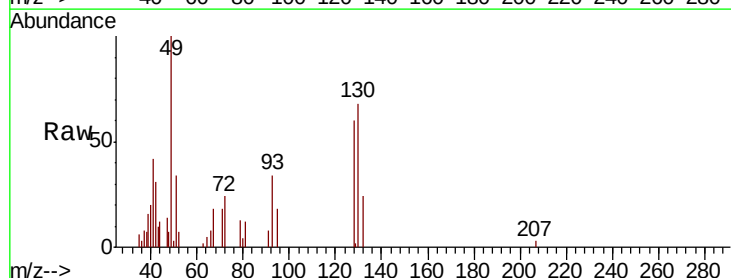
MMDadoda
 10/9/2019 4:10:01 PM

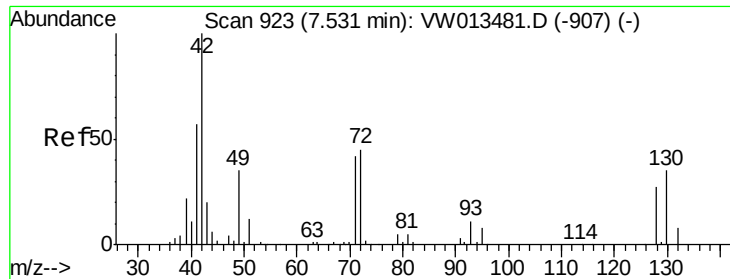


#28

Bromochloromethane
 Concen: 4.629 ug/l
 RT: 7.51 min Scan# 919
 Delta R.T. 0.00 min
 Lab File: VW013489.D
 Acq: 08 Oct 2019 16:19

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.1	0.0	1.6
130	84.2	0.0	0.0#





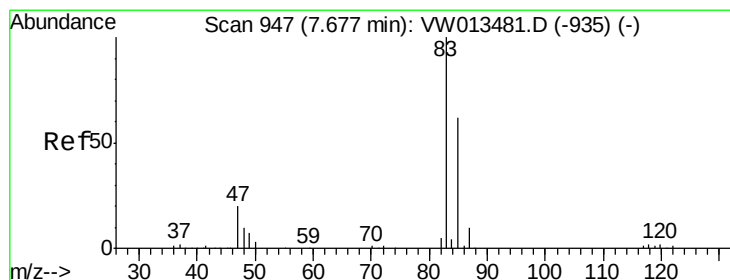
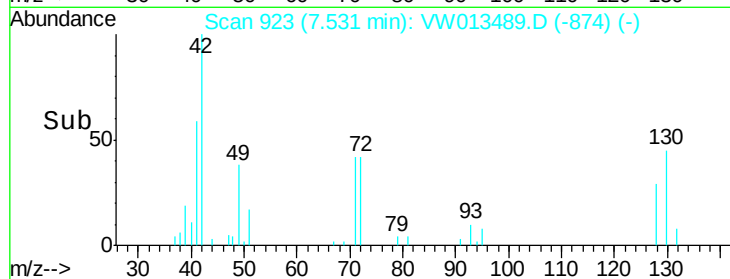
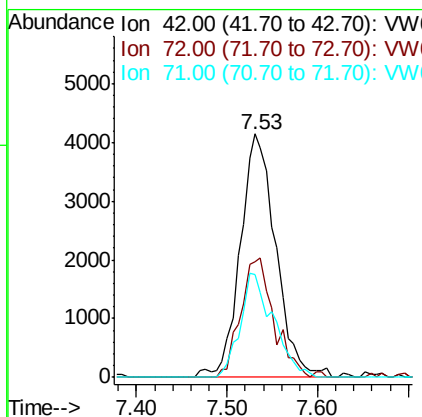
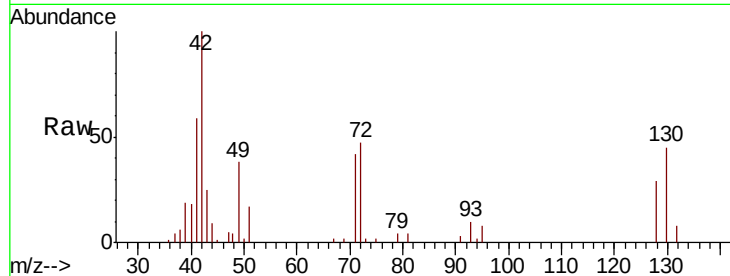
#29
Tetrahydrofuran
Concen: 20.845 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.00 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

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

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.8	34.8	52.2
71	40.0	33.6	50.4

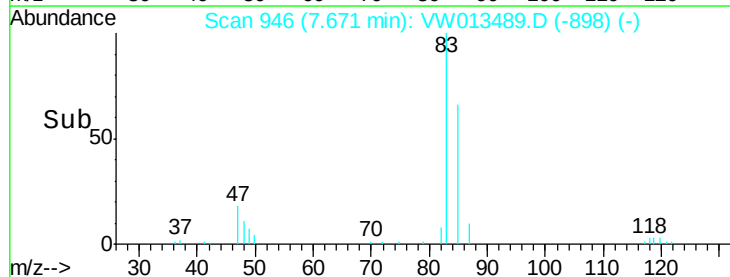
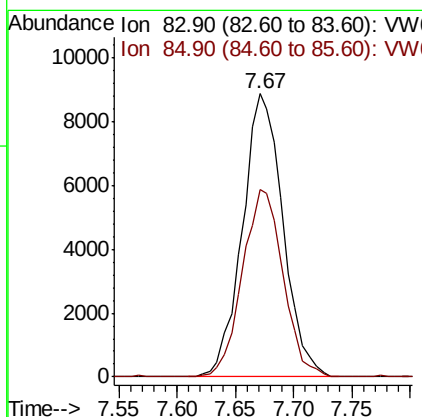
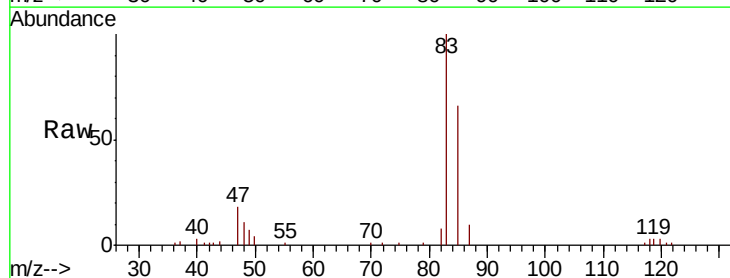
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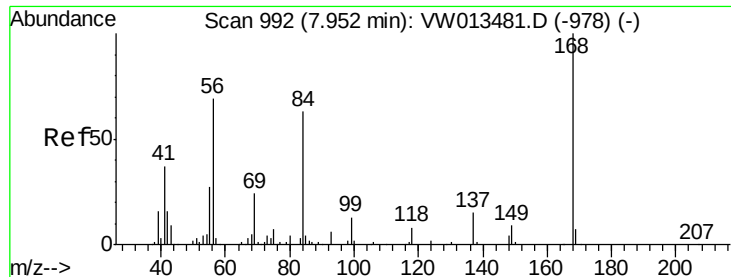
MMDadoda
10/9/2019 4:10:01 PM



#30
Chloroform
Concen: 4.389 ug/l
RT: 7.67 min Scan# 946
Delta R.T. -0.01 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.1	49.4	74.2





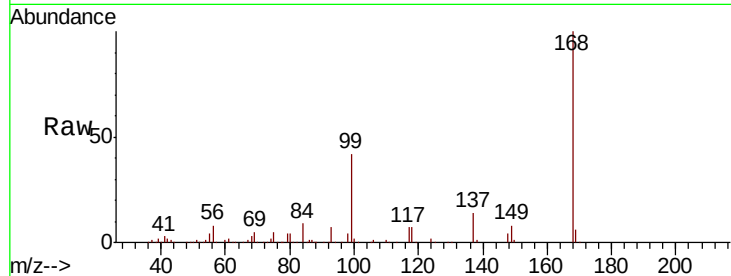
#31
Cyclohexane
Concen: 4.754 ug/l
RT: 7.96 min Scan# 993
Delta R.T. 0.01 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

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

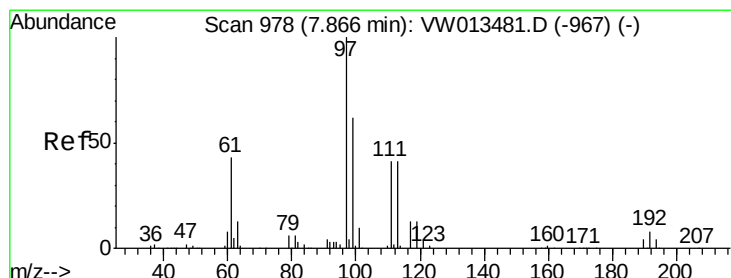
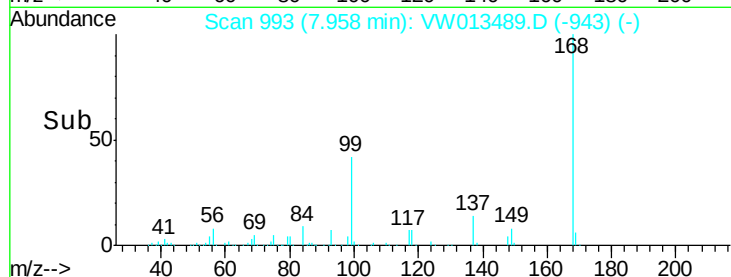
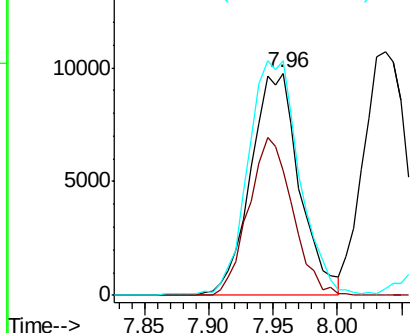
Tot Ion	Ratio	Lower	Upper
56	100		
69	55.9	28.0	42.0#
84	104.5	71.8	107.6

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10/9/2019 4:10:01 PM

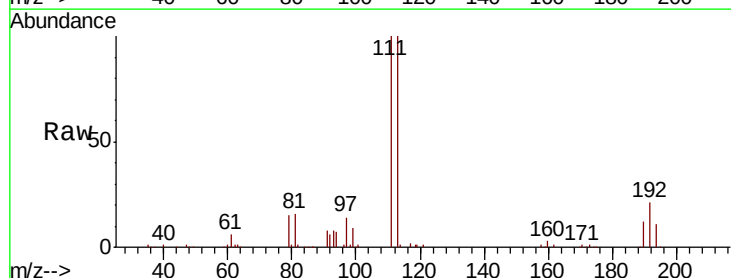


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

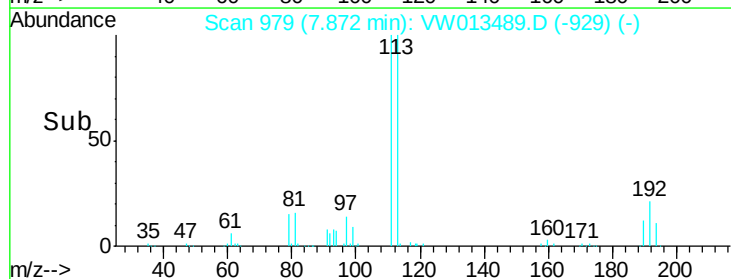
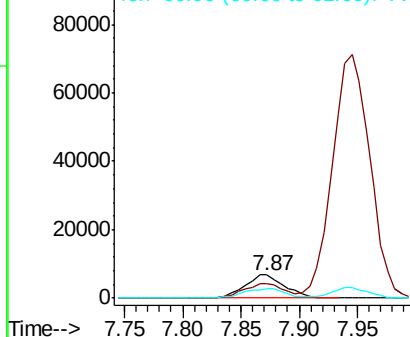


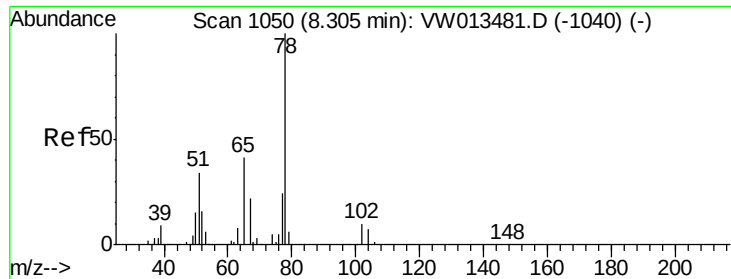
#32
1,1,1-Trichloroethane
Concen: 4.062 ug/l
RT: 7.87 min Scan# 979
Delta R.T. 0.01 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.2	52.3	78.5
61	42.6	33.7	50.5



Abundance Ion 96.90 (96.60 to 97.60): VW
Ion 98.90 (98.60 to 99.60): VW
Ion 60.90 (60.60 to 61.60): VW





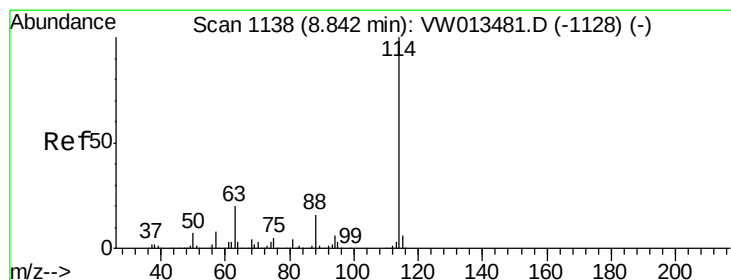
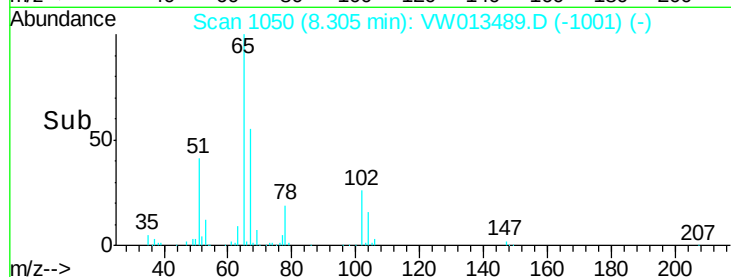
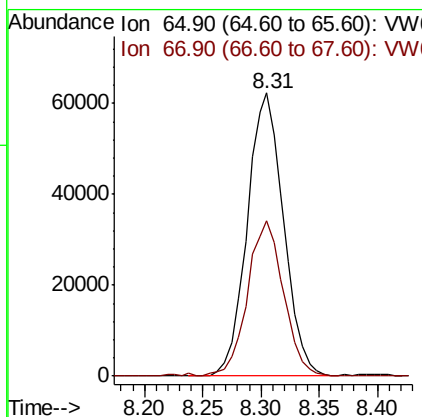
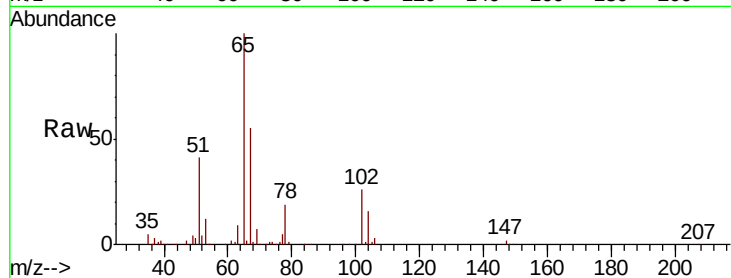
#33
 1,2-Dichloroethane-d4
 Concen: 52.726 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW013489.D
 Acq: 08 Oct 2019 16:19

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

Tot Ion	Ratio	Resp	Lower	Upper
65	100	135445		
67	54.5	0.0	109.4	

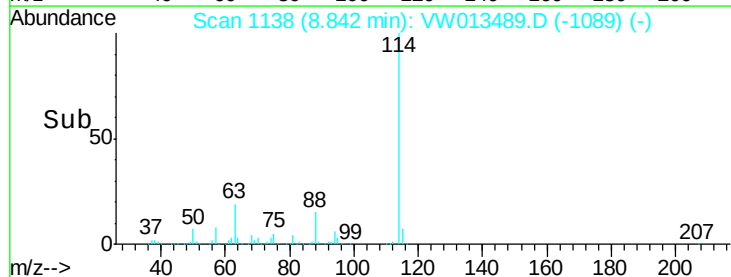
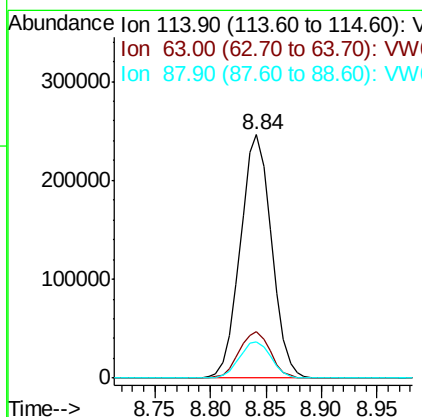
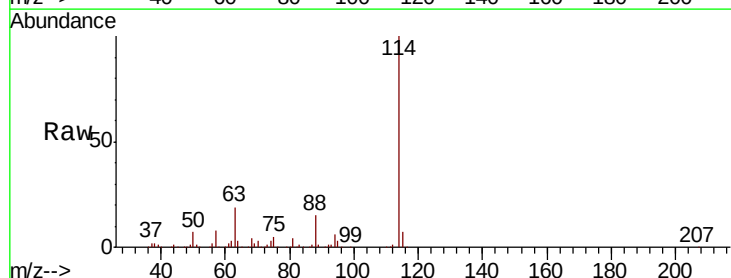
Manual Integrations
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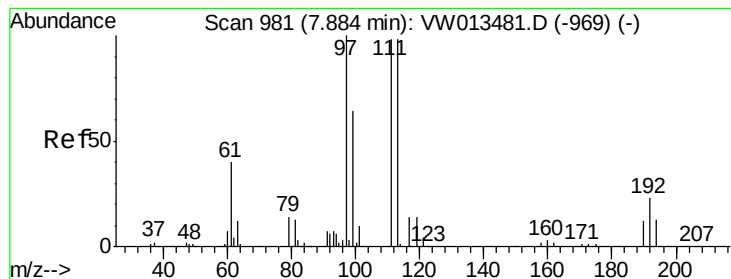
MMDadoda
 10/9/2019 4:10:01 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW013489.D
 Acq: 08 Oct 2019 16:19

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	480866		
63	18.9	0.0	40.4	
88	15.0	0.0	31.4	





#35

Dibromofluoromethane

Concen: 51.134 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW013489.D

Acq: 08 Oct 2019 16:19

Instrument :

MSVOA_W

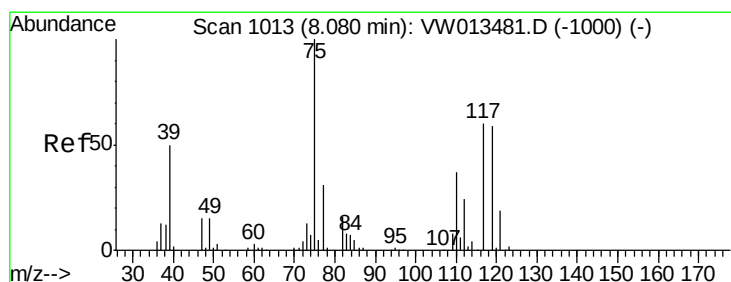
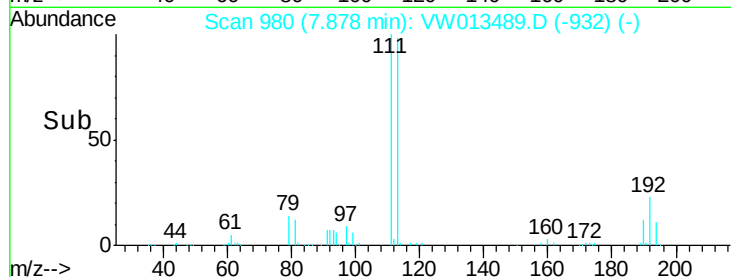
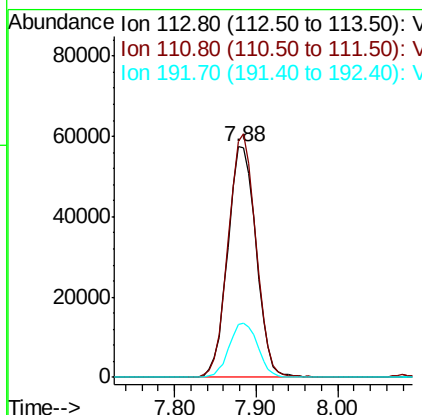
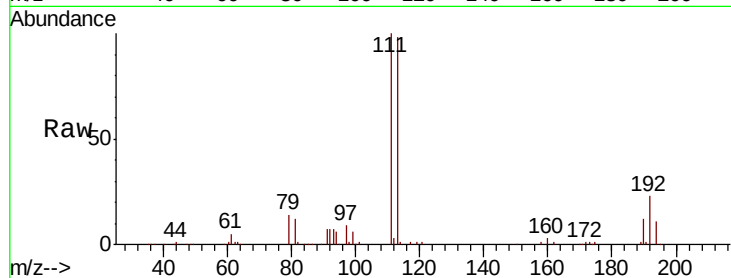
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion:	113	Resp:	137331
Ion Ratio	Lower	Upper	
113	100		
111	103.0	82.3	123.5
192	23.6	19.3	28.9

Manual Integrations
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10/9/2019 4:10:01 PM



#36

1,1-Dichloropropene

Concen: 4.065 ug/l

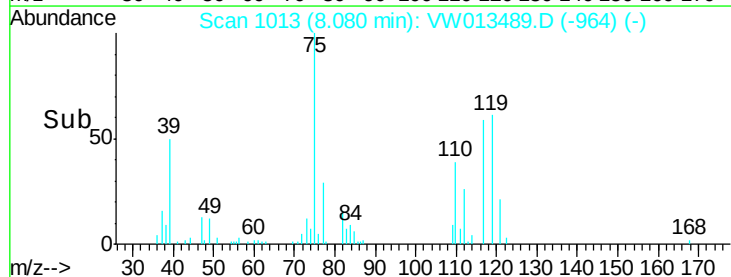
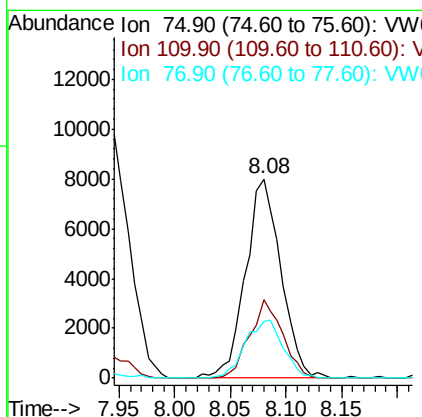
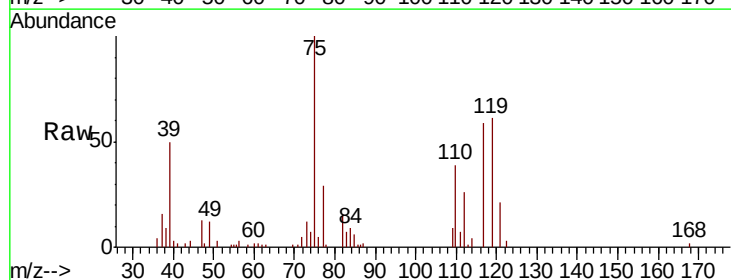
RT: 8.08 min Scan# 1013

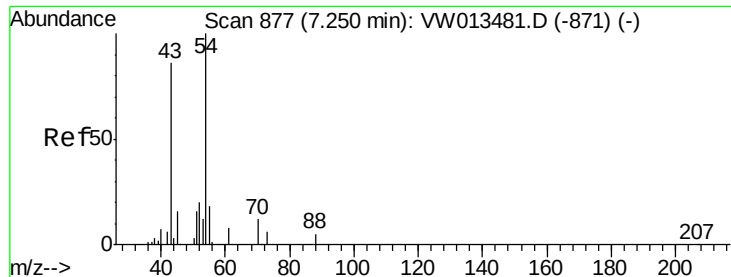
Delta R.T. 0.00 min

Lab File: VW013489.D

Acq: 08 Oct 2019 16:19

Tgt Ion:	75	Resp:	17683
Ion Ratio	Lower	Upper	
75	100		
110	36.7	18.4	55.2
77	31.2	25.0	37.4





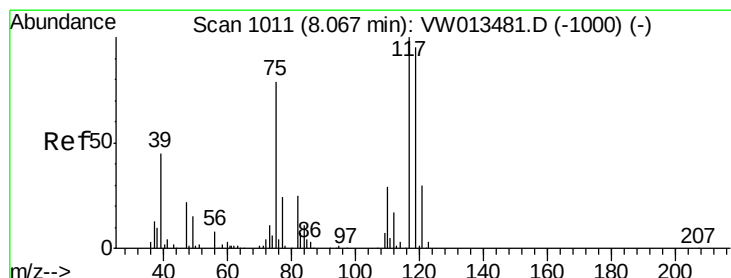
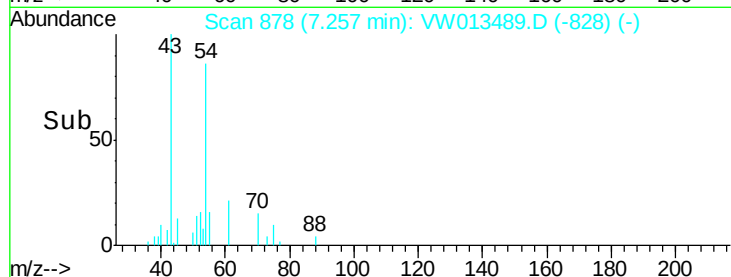
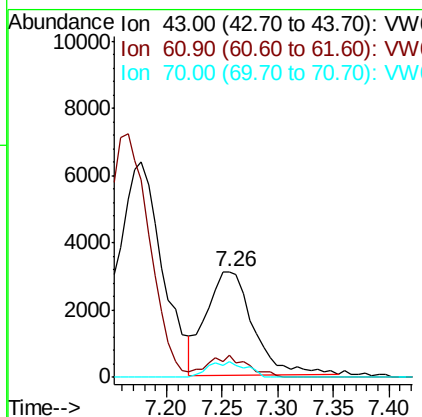
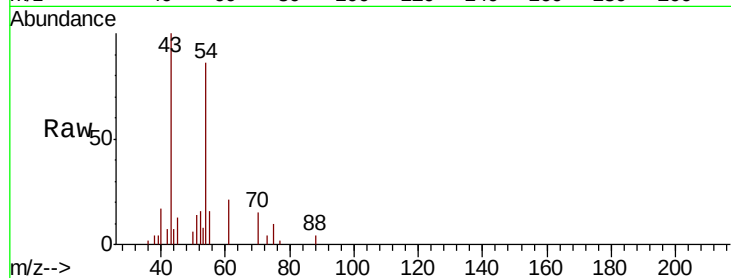
#37
Ethyl Acetate
Concen: 4.601 ug/l
RT: 7.26 min Scan# 878
Delta R.T. 0.01 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

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

Tot Ion	Ratio	Lower	Upper
43	100		
61	17.7	10.9	16.3#
70	12.2	9.2	13.8

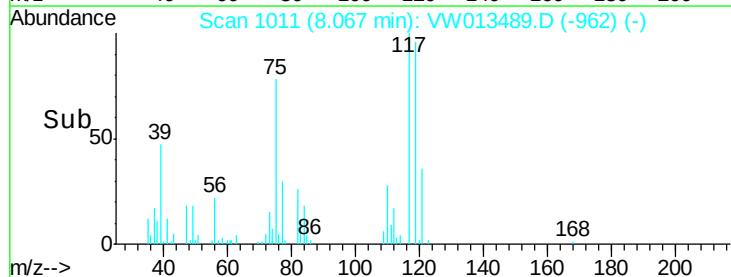
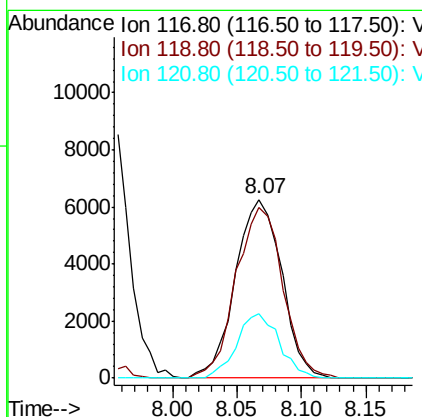
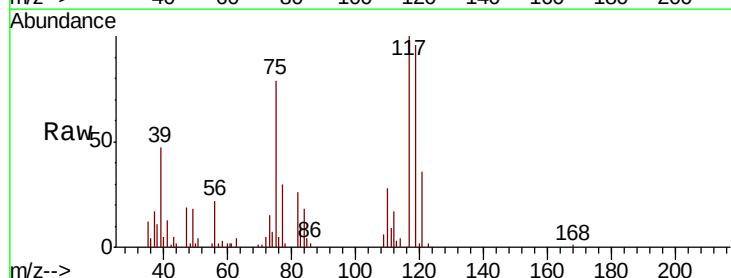
Manual Integrations
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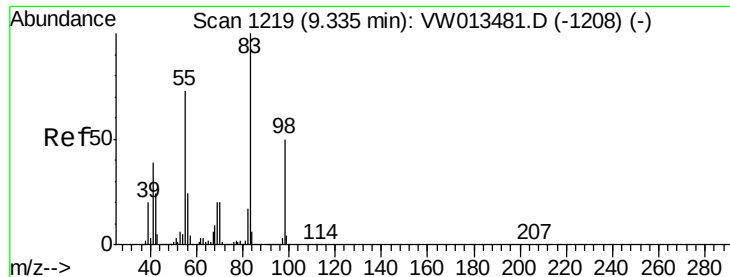
MMDadoda
10/9/2019 4:10:01 PM



#38
Carbon Tetrachloride
Concen: 4.053 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. 0.00 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.6	76.3	114.5
121	36.4	23.6	35.4#





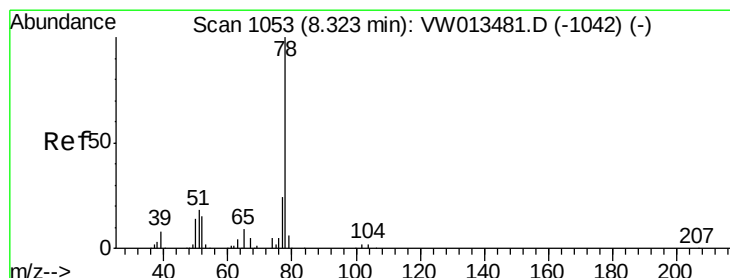
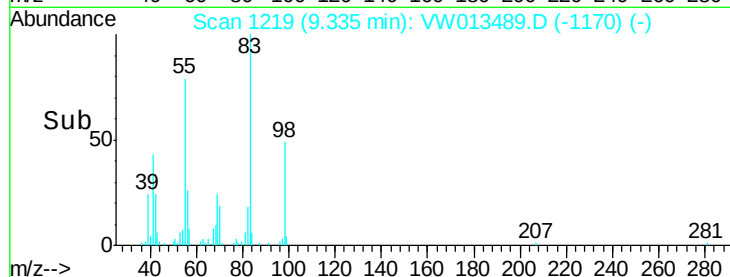
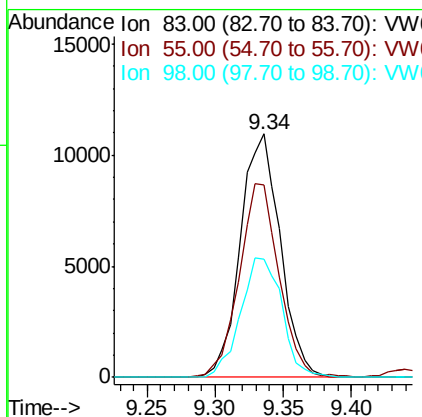
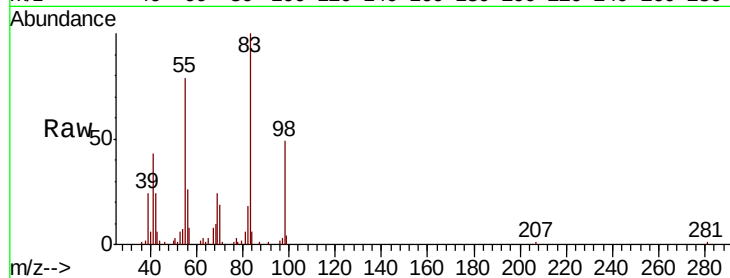
#39
Methylvlcyclohexane
Concen: 3.975 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

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

Tot Ion	Ratio	Lower	Upper
83	100		
55	78.9	58.2	87.4
98	48.6	39.8	59.6

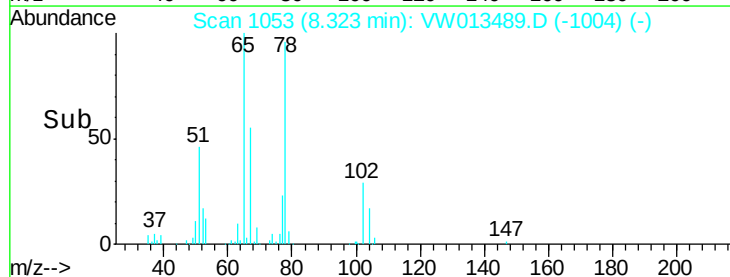
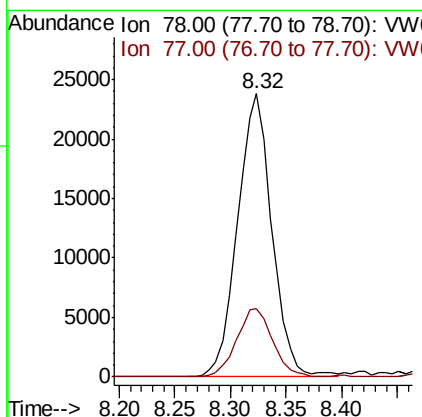
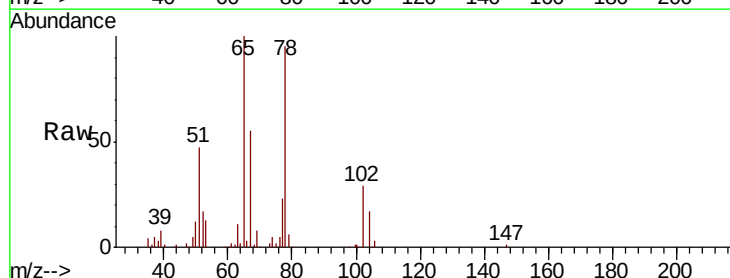
Manual Integrations
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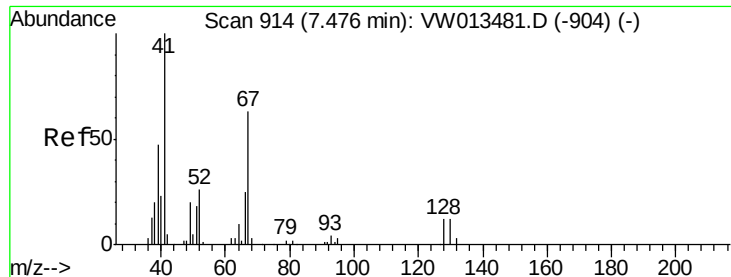
MMDadoda
10/9/2019 4:10:01 PM



#40
Benzene
Concen: 4.185 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. 0.00 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.2	28.8





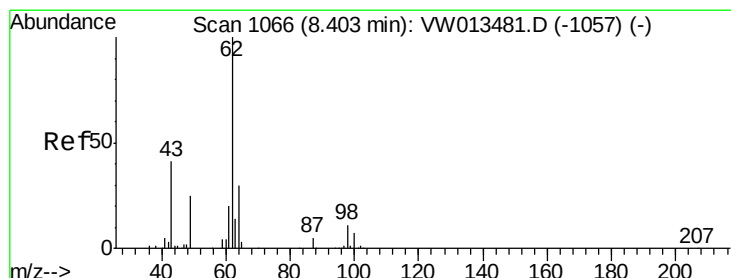
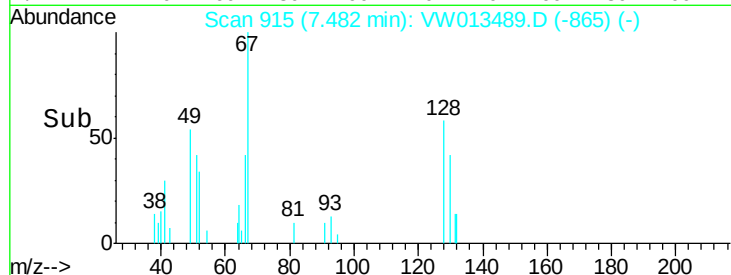
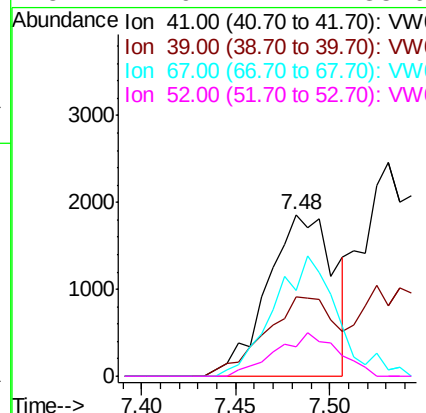
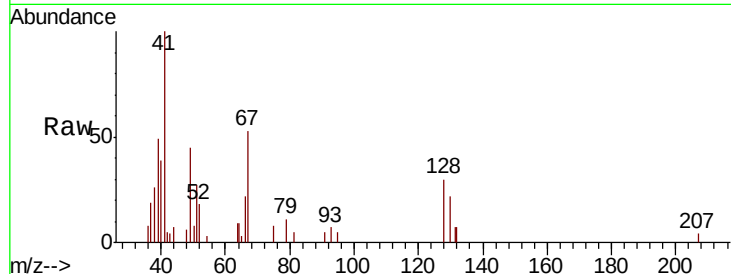
#41
Methacrylonitrile
Concen: 4.079 ug/l
RT: 7.48 min Scan# 915
Delta R.T. 0.01 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

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

Tot Ion	41	Resp:	4578
Ion	Ratio	Lower	Upper
41	100		
39	50.3	39.4	59.0
67	70.6	57.0	85.6
52	24.9	22.4	33.6

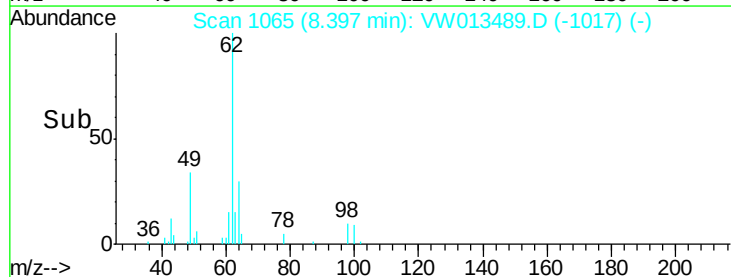
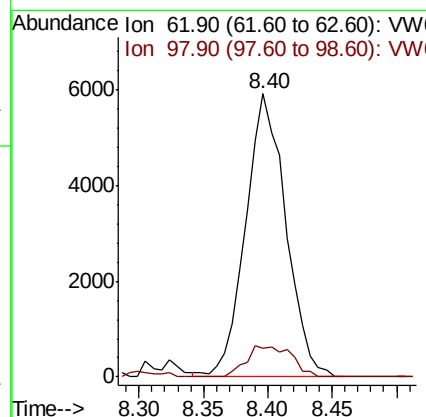
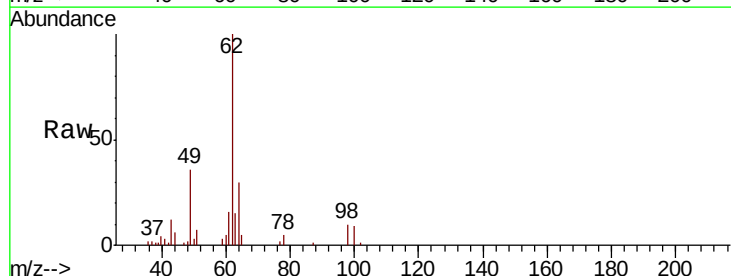
Manual Integrations
APPROVED

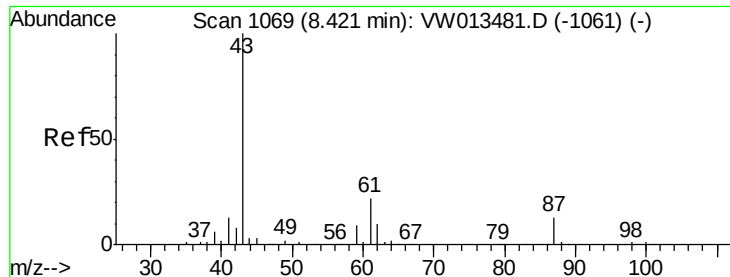
MMDadoda
10/9/2019 4:10:01 PM



#42
1,2-Dichloroethane
Concen: 4.183 ug/l
RT: 8.40 min Scan# 1065
Delta R.T. -0.01 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

Tgt Ion	62	Resp:	12839
Ion	Ratio	Lower	Upper
62	100		
98	12.2	0.0	21.4





#43

Isopropyl Acetate

Concen: 4.004 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VW013489.D

Acq: 08 Oct 2019 16:19

Instrument :

MSVOA_W

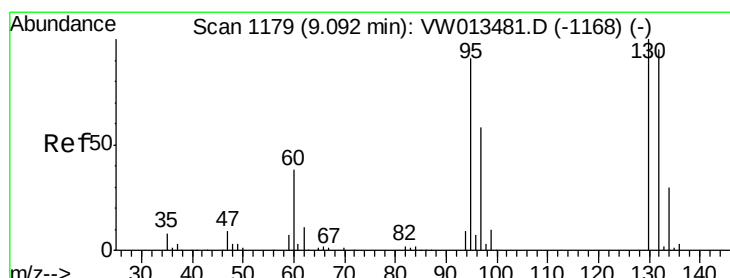
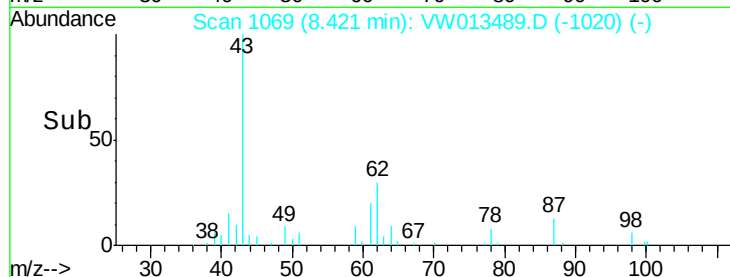
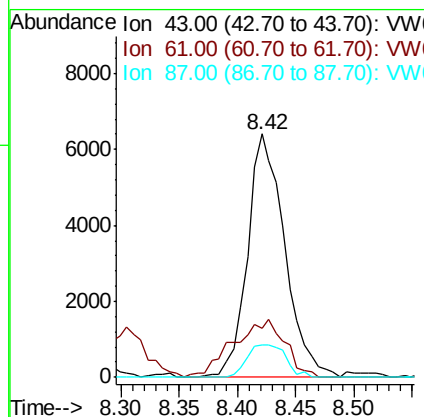
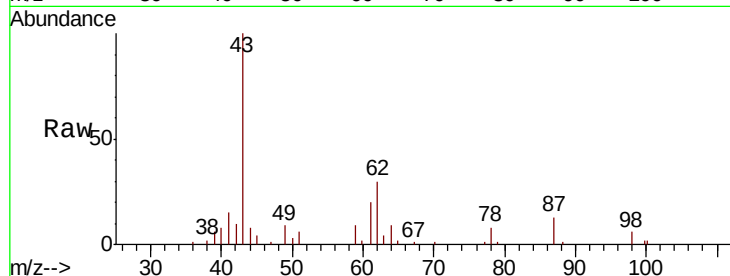
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion:	43	Resp:	14276
Ion	Ratio	Lower	Upper
43	100		
61	33.0	25.4	38.2
87	13.8	10.8	16.2

Manual Integrations
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#44

Trichloroethene

Concen: 4.262 ug/l

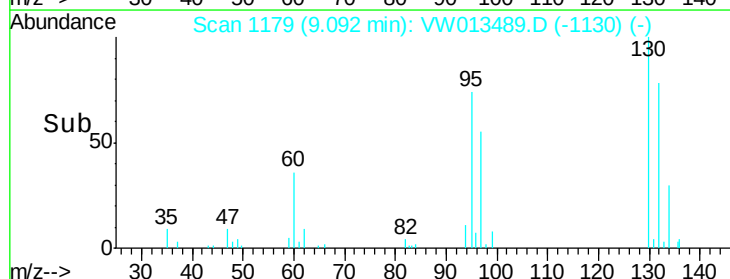
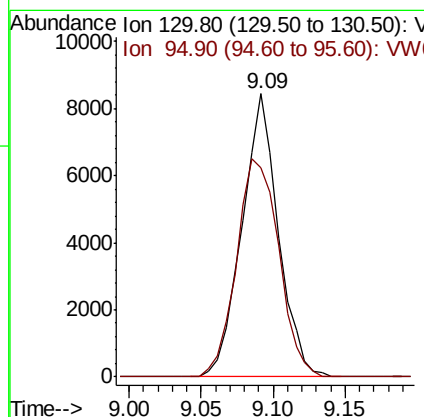
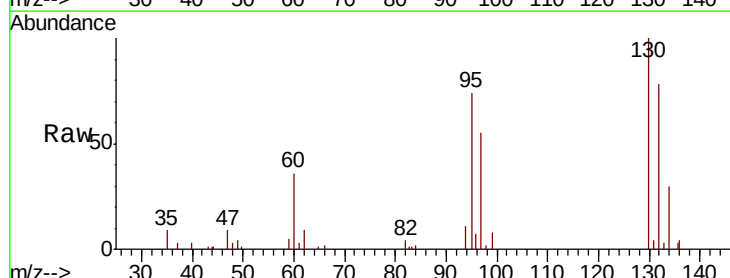
RT: 9.09 min Scan# 1179

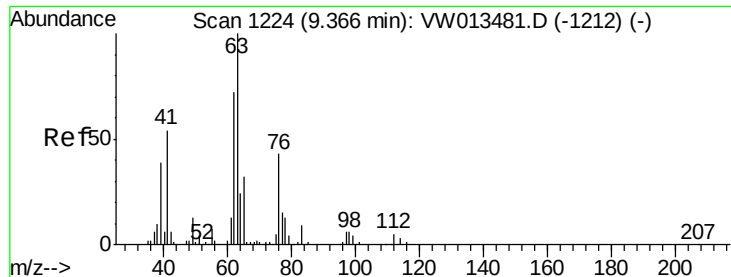
Delta R.T. 0.00 min

Lab File: VW013489.D

Acq: 08 Oct 2019 16:19

Tgt Ion:	130	Resp:	14763
Ion	Ratio	Lower	Upper
130	100		
95	74.1	0.0	182.2





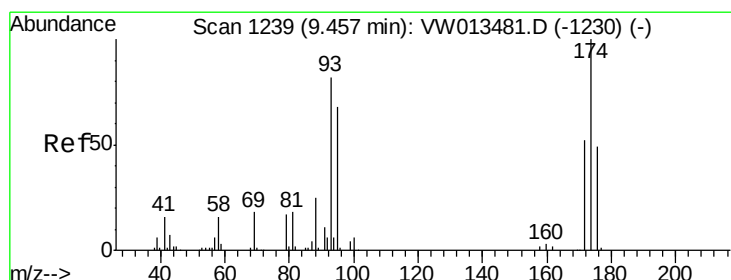
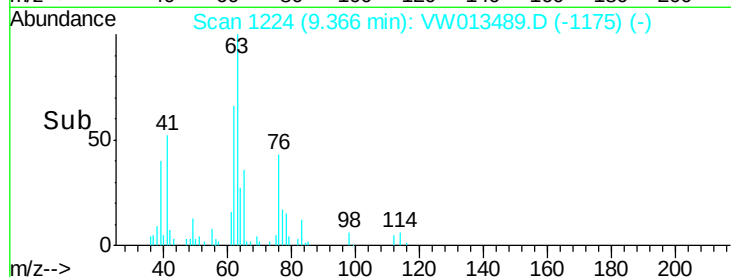
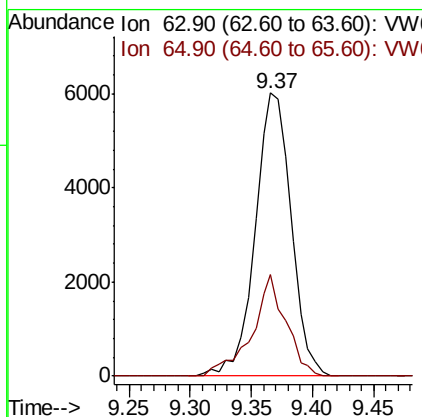
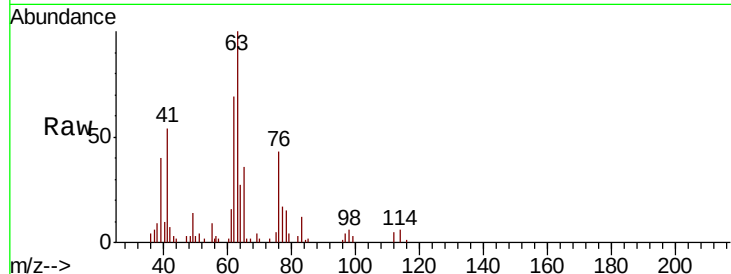
#45
 1,2-Dichloropropane
 Concen: 4.233 ug/l
 RT: 9.37 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: VW013489.D
 Acq: 08 Oct 2019 16:19

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

Tot Ion	Ratio	Lower	Upper
63	100		
65	35.7	25.8	38.6

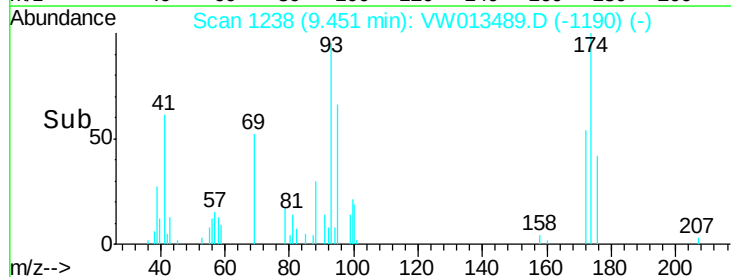
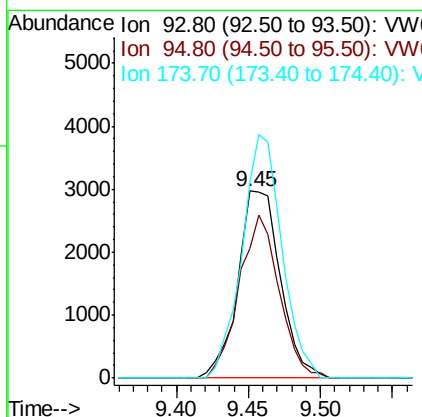
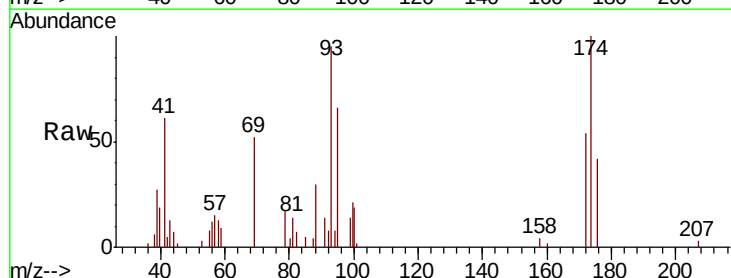
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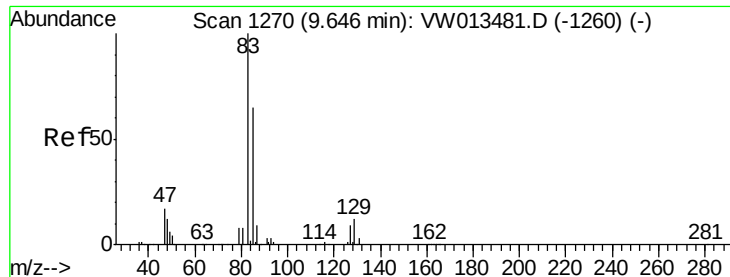
MMDadoda
 10/9/2019 4:10:01 PM



#46
 Dibromomethane
 Concen: 4.185 ug/l
 RT: 9.45 min Scan# 1238
 Delta R.T. -0.01 min
 Lab File: VW013489.D
 Acq: 08 Oct 2019 16:19

Tgt Ion	Ratio	Lower	Upper
93	100		
95	81.9	68.0	102.0
174	122.3	97.0	145.6





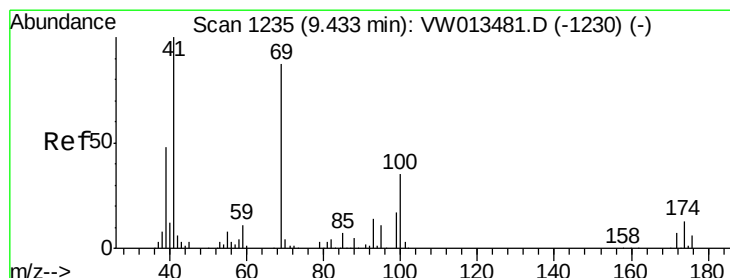
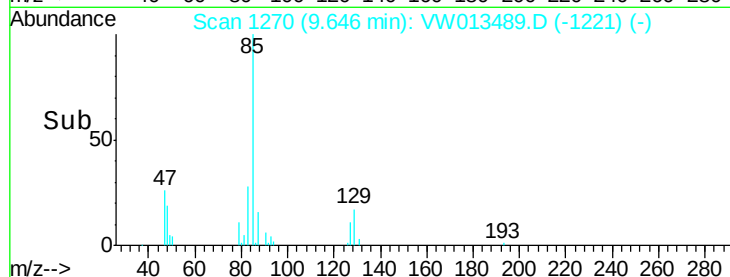
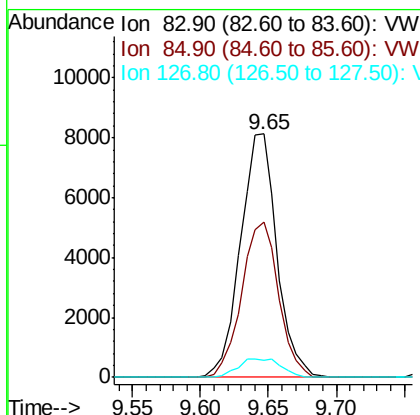
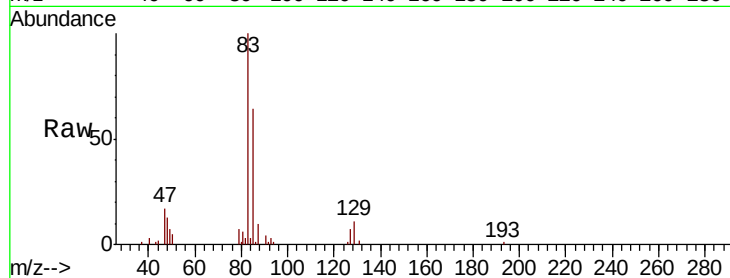
#47
 Bromodichloromethane
 Concen: 4.220 ug/l
 RT: 9.65 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VW013489.D
 Acq: 08 Oct 2019 16:19

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

Tot Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.9	77.9
127	7.1	7.4	11.2#

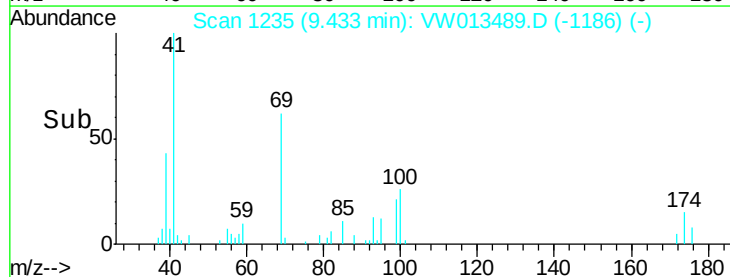
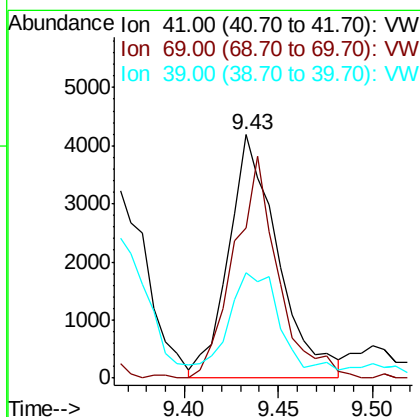
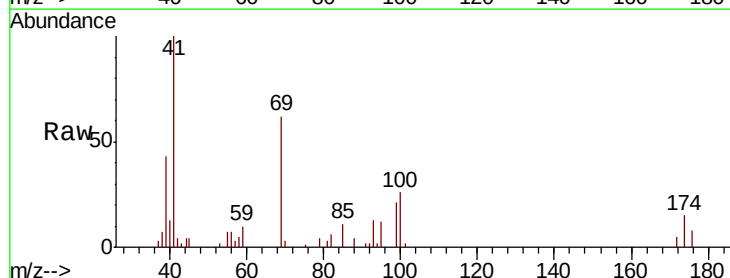
Manual Integrations
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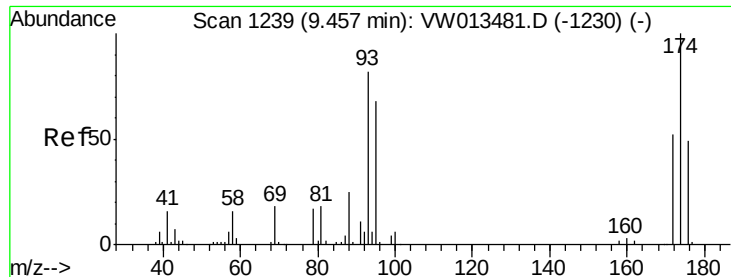
MMDadoda
 10/9/2019 4:10:01 PM



#48
 Methyl methacrylate
 Concen: 4.330 ug/l
 RT: 9.43 min Scan# 1235
 Delta R.T. 0.00 min
 Lab File: VW013489.D
 Acq: 08 Oct 2019 16:19

Tgt Ion	Ratio	Lower	Upper
41	100		
69	81.2	70.4	105.6
39	40.0	37.3	55.9





#49

1,4-Dioxane

Concen: 81.664 ug/l

RT: 9.46 min Scan# 1240

Delta R.T. 0.01 min

Lab File: VW013489.D

Acq: 08 Oct 2019 16:19

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 88 Resp: 2082

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

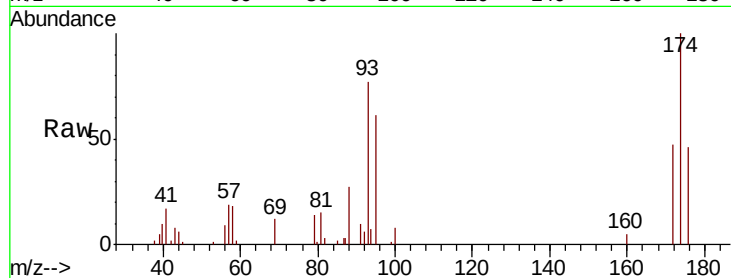
58 75.9 60.0 90.0

Manual Integrations

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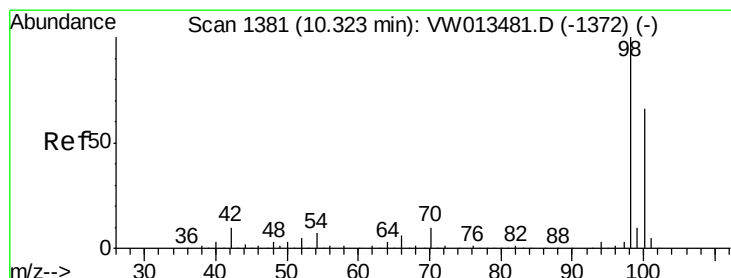
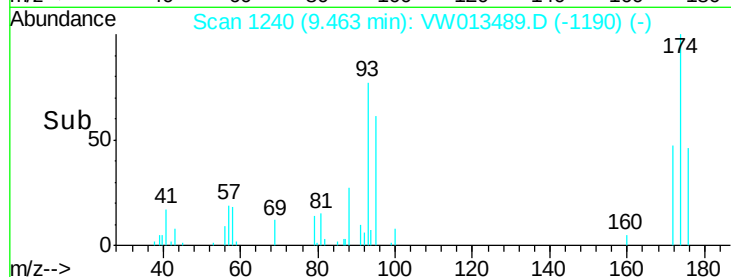
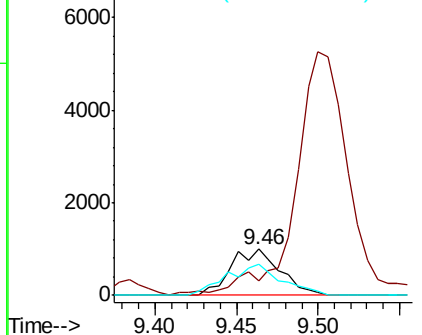
10/9/2019 4:10:01 PM



Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#50

Toluene-d8

Concen: 50.528 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW013489.D

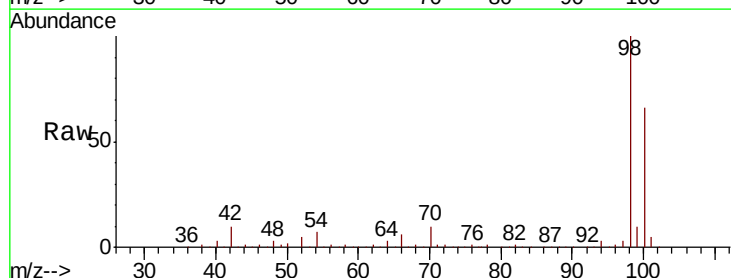
Acq: 08 Oct 2019 16:19

Tgt Ion: 98 Resp: 570294

Ion Ratio Lower Upper

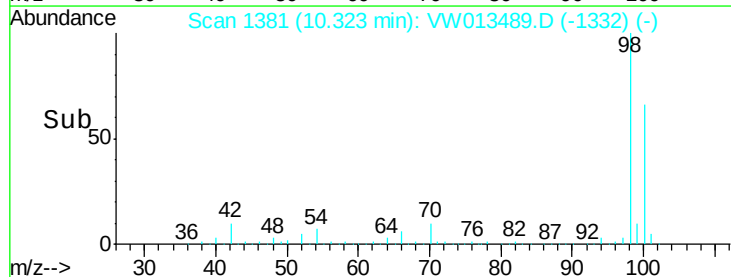
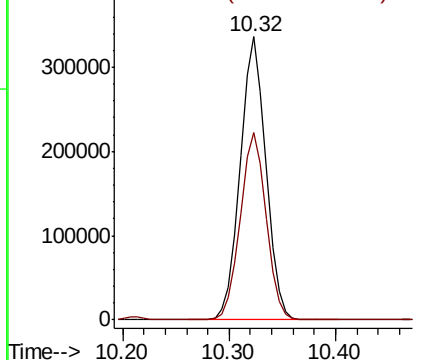
98 100

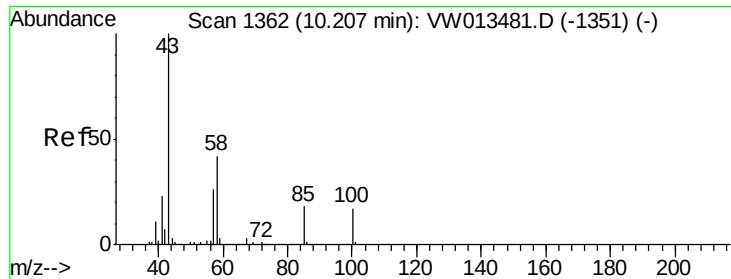
100 66.6 53.2 79.8



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#51

4-Methyl-2-Pentanone

Concen: 21.393 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW013489.D

Acq: 08 Oct 2019 16:19

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 43 Resp: 40104

Ion Ratio Lower Upper

43 100

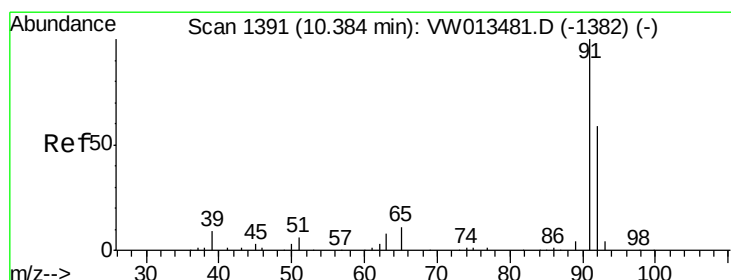
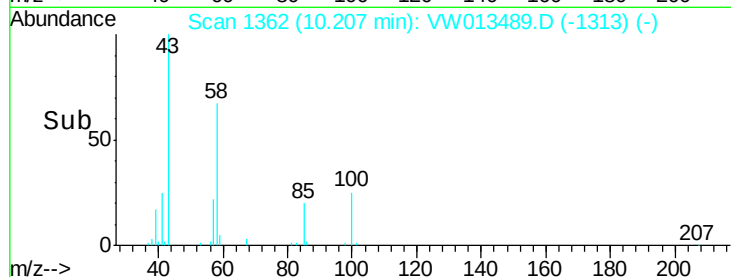
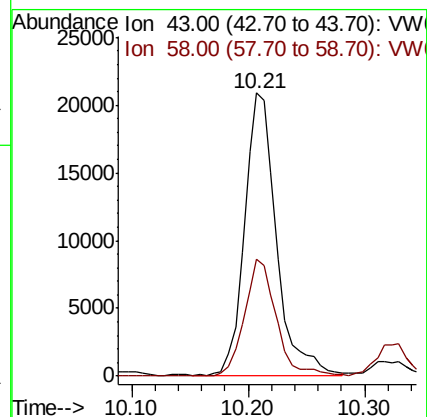
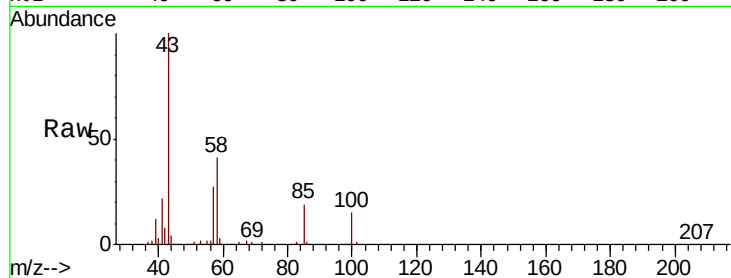
58 40.9 32.8 49.2

Manual Integrations

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#52

Toluene

Concen: 4.200 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW013489.D

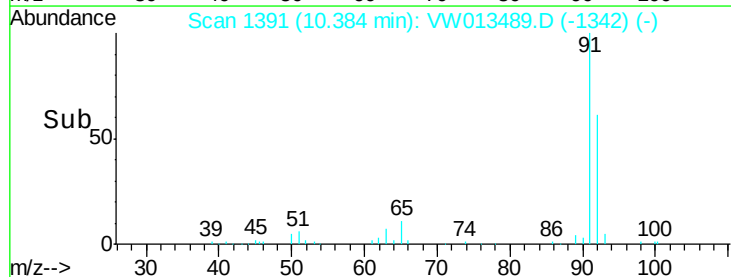
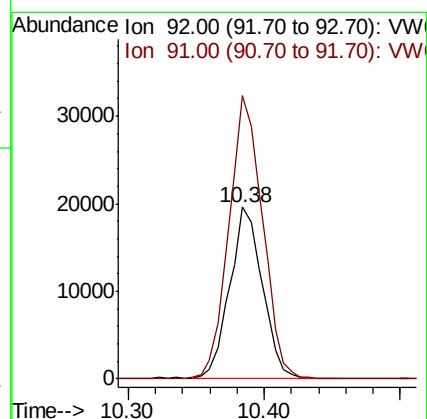
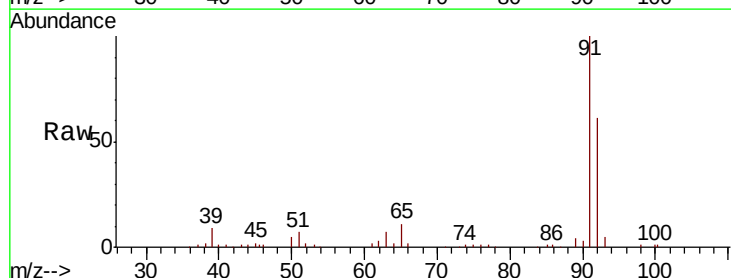
Acq: 08 Oct 2019 16:19

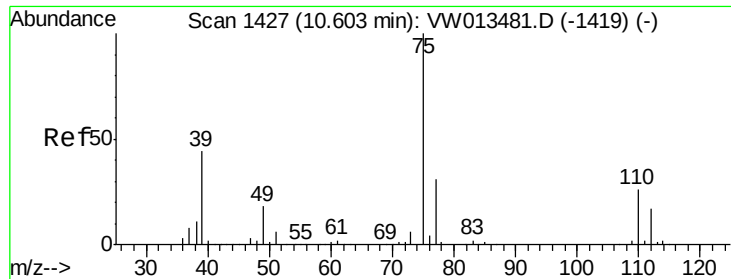
Tgt Ion: 92 Resp: 32848

Ion Ratio Lower Upper

92 100

91 169.2 134.8 202.2





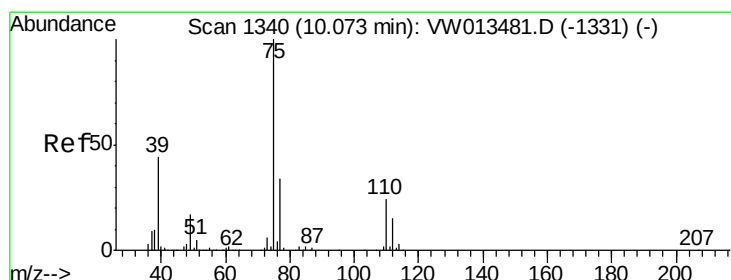
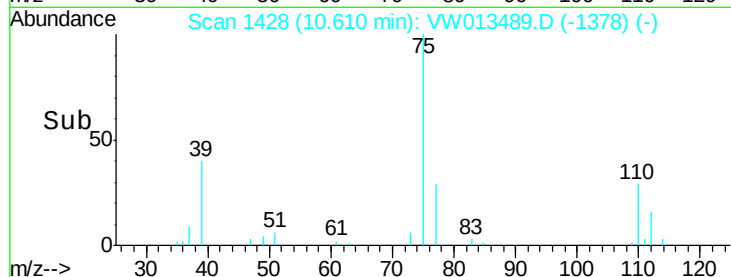
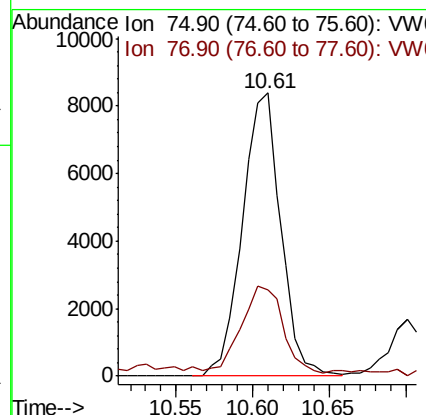
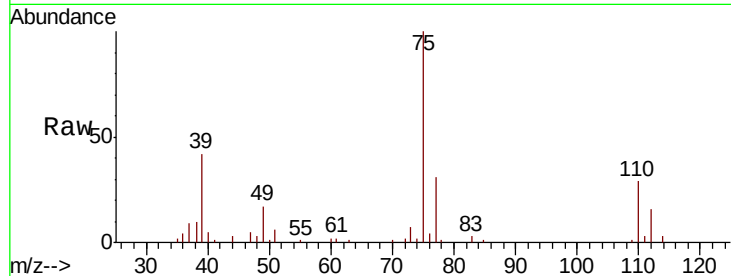
#53
t-1,3-Dichloropropene
Concen: 3.898 ug/l
RT: 10.61 min Scan# 1428
Delta R.T. 0.01 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

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

Tot Ion: 75 Resp: 14618
Ion Ratio Lower Upper
75 100
77 28.5 25.2 37.8

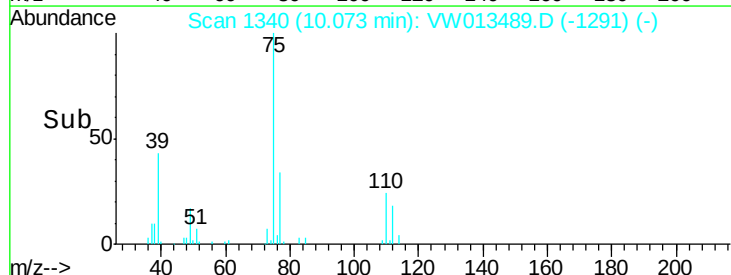
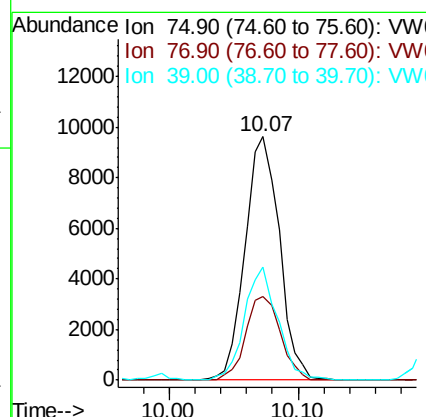
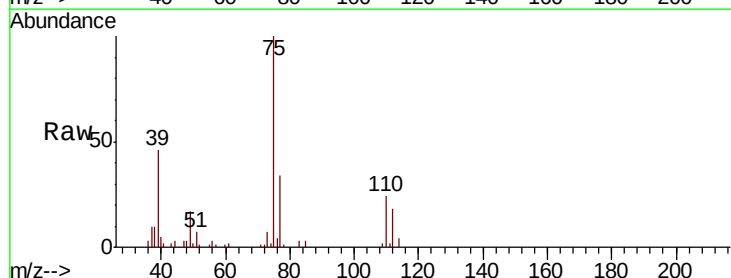
Manual Integrations
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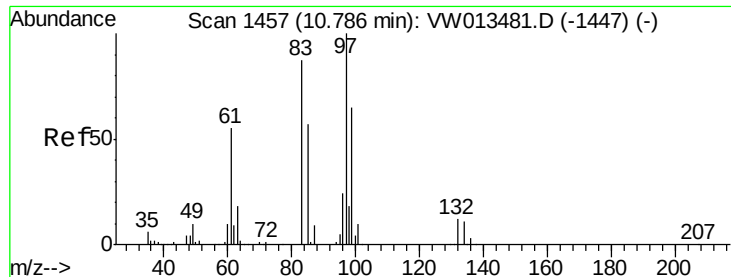
MMDadoda
10/9/2019 4:10:01 PM



#54
cis-1,3-Dichloropropene
Concen: 3.900 ug/l
RT: 10.07 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

Tgt Ion: 75 Resp: 17720
Ion Ratio Lower Upper
75 100
77 34.2 27.0 40.4
39 46.2 35.0 52.4





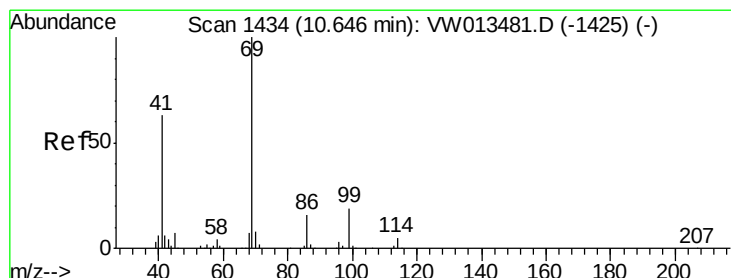
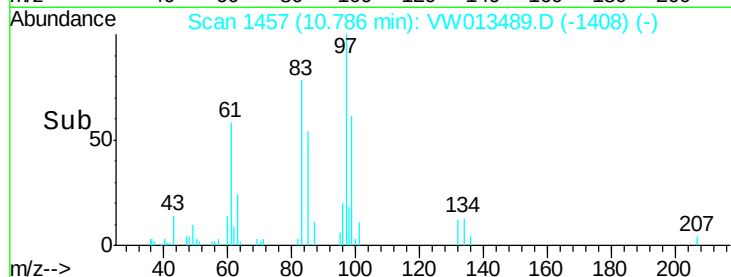
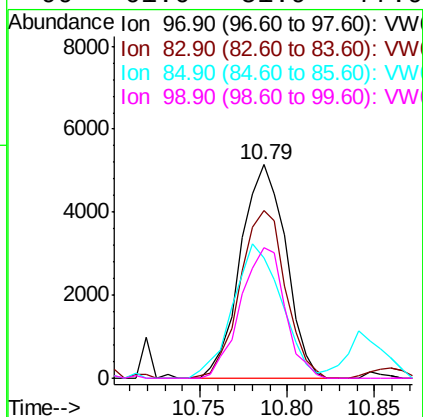
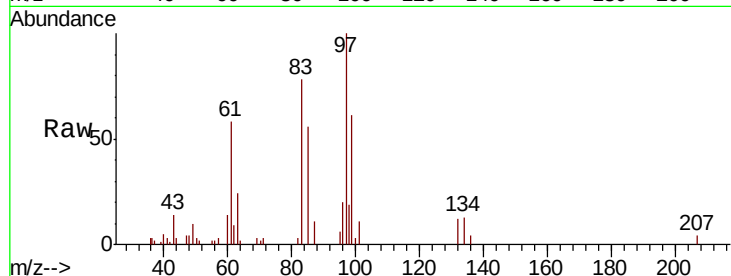
#55
 1,1,2-Trichloroethane
 Concen: 4.251 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. 0.00 min
 Lab File: VW013489.D
 Acq: 08 Oct 2019 16:19

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

Tot Ion:	97	Resp:	9265
Ion	Ratio	Lower	Upper
97	100		
83	78.2	69.8	104.8
85	56.1	45.4	68.0
99	61.0	51.9	77.9

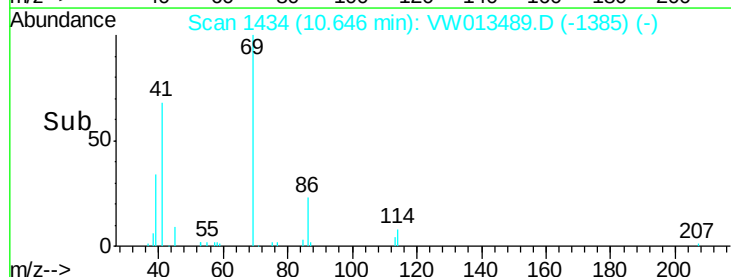
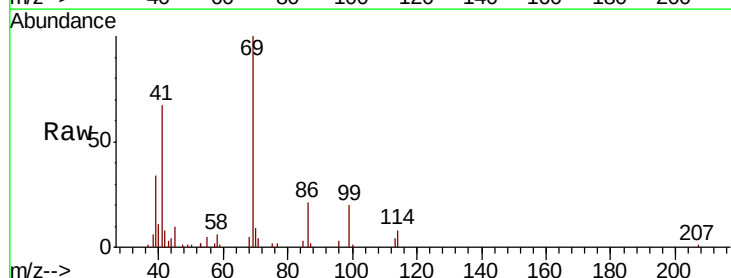
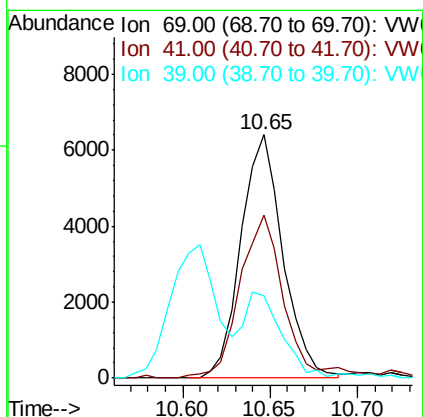
Manual Integrations
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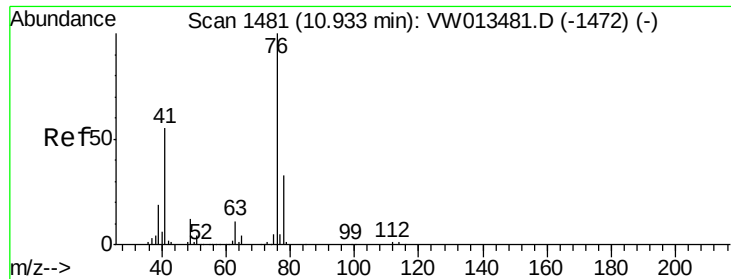
MMDadoda
 10/9/2019 4:10:01 PM



#56
 Ethyl methacrylate
 Concen: 3.647 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. 0.00 min
 Lab File: VW013489.D
 Acq: 08 Oct 2019 16:19

Tgt Ion:	69	Resp:	10706
Ion	Ratio	Lower	Upper
69	100		
41	71.4	51.8	77.6
39	29.9	21.7	32.5





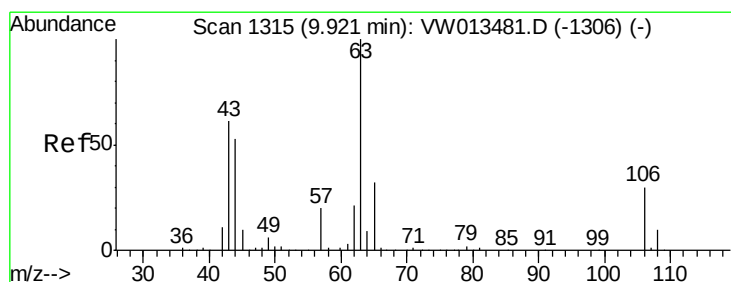
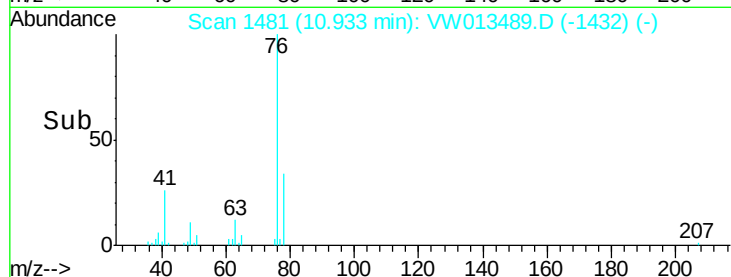
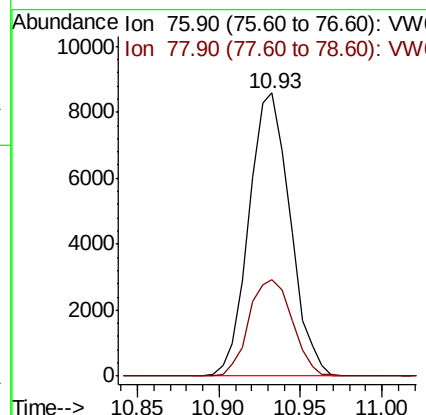
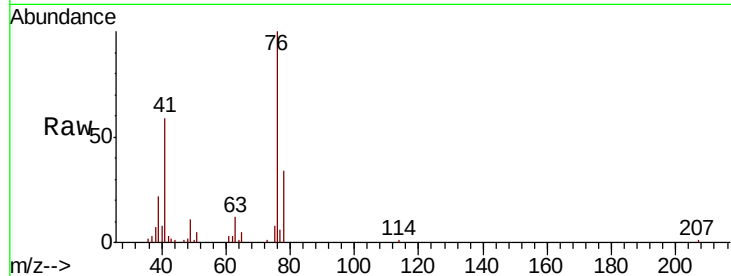
#57
 1,3-Dichloropropane
 Concen: 4.036 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. 0.00 min
 Lab File: VW013489.D
 Acq: 08 Oct 2019 16:19

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

Tot Ion: 76 Resp: 15102
 Ion Ratio Lower Upper
 76 100
 78 35.8 25.9 38.9

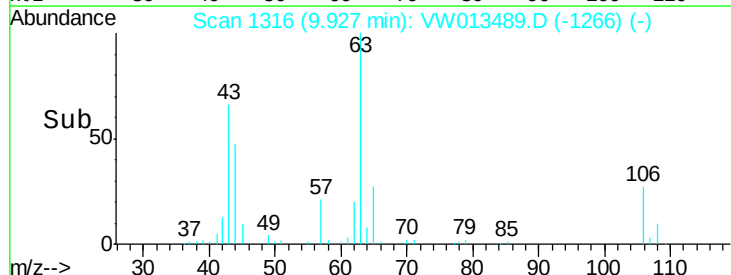
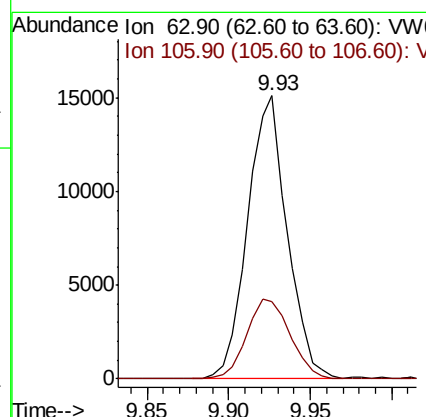
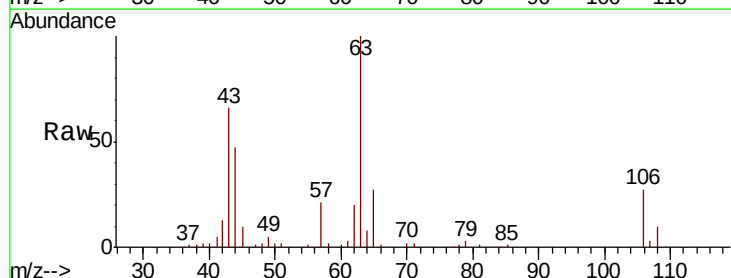
Manual Integrations
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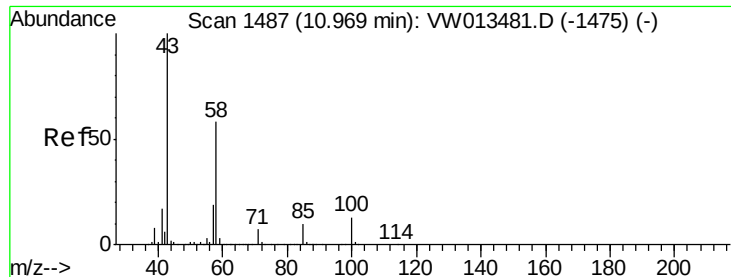
MMDadoda
 10/9/2019 4:10:01 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 18.350 ug/l
 RT: 9.93 min Scan# 1316
 Delta R.T. 0.01 min
 Lab File: VW013489.D
 Acq: 08 Oct 2019 16:19

Tgt Ion: 63 Resp: 25411
 Ion Ratio Lower Upper
 63 100
 106 31.0 24.5 36.7





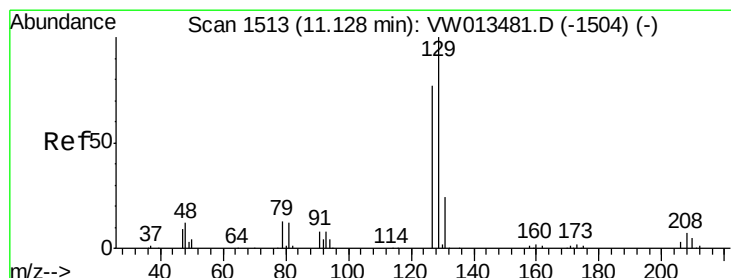
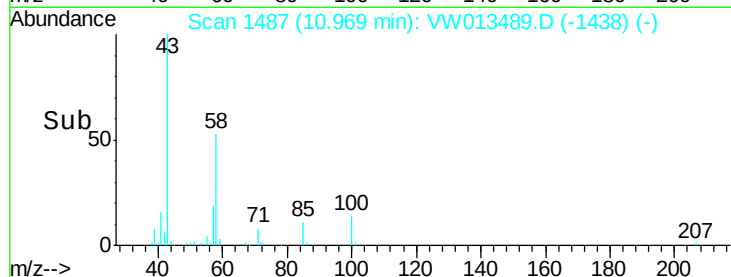
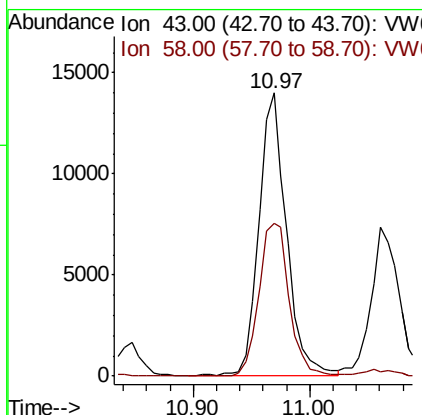
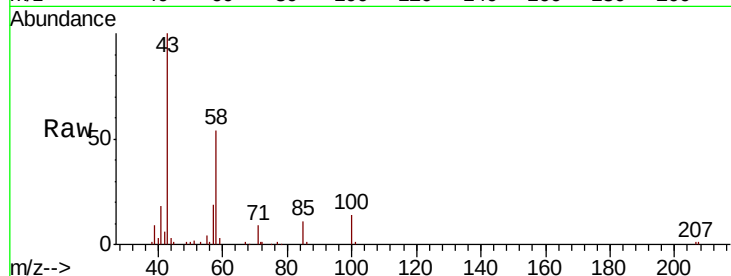
#59
2-Hexanone
Concen: 18.035 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

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

Tot Ion: 43 Resp: 23184
Ion Ratio Lower Upper
43 100
58 59.1 28.4 85.2

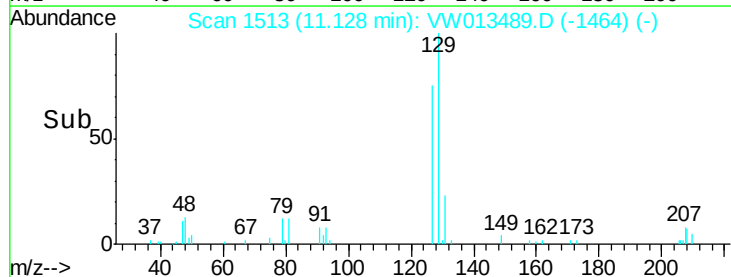
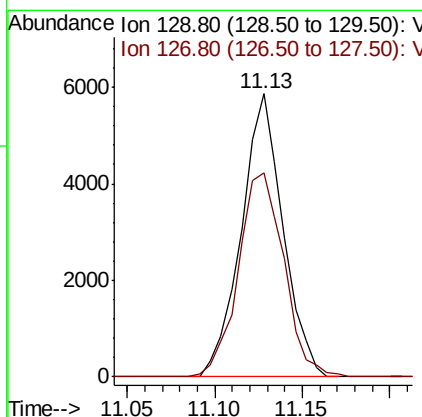
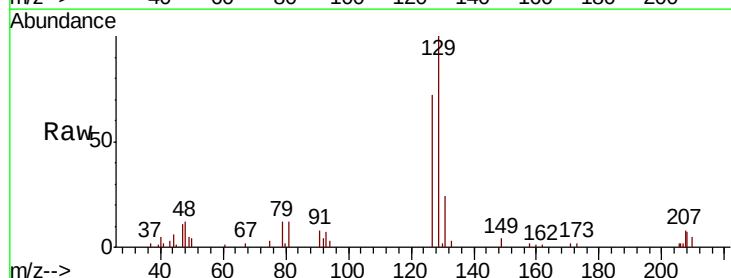
Manual Integrations
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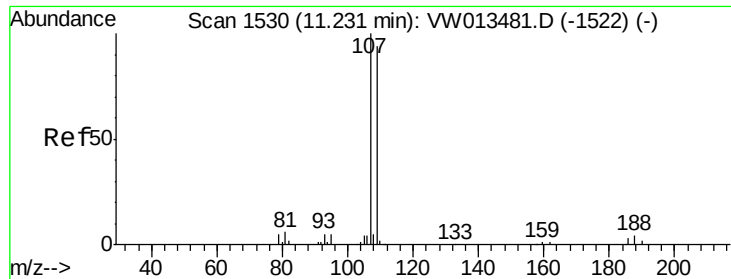
MMDadoda
10/9/2019 4:10:01 PM



#60
Dibromochloromethane
Concen: 3.876 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

Tgt Ion: 129 Resp: 9714
Ion Ratio Lower Upper
129 100
127 78.7 37.4 112.1





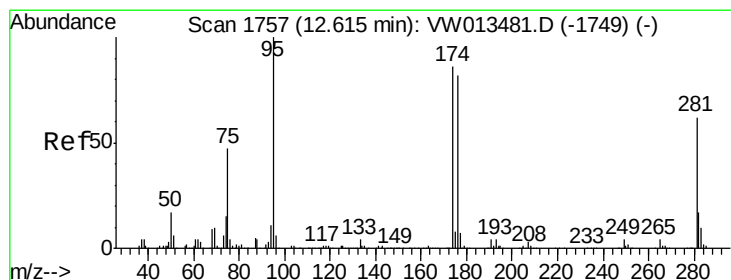
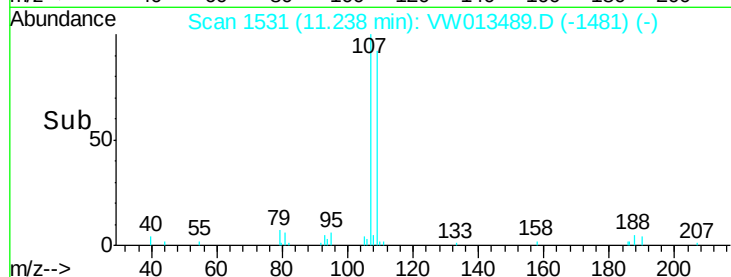
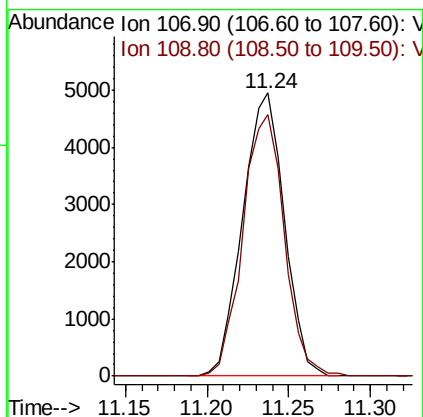
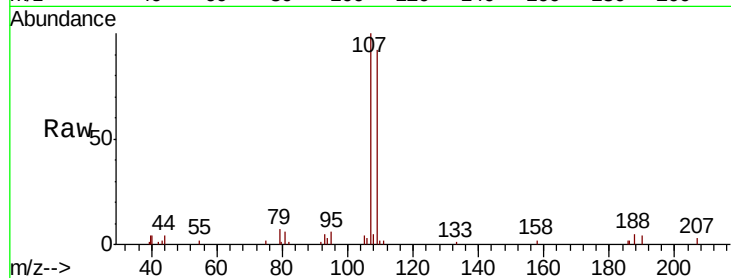
#61
 1,2-Dibromoethane
 Concen: 4.264 ug/l
 RT: 11.24 min Scan# 1531
 Delta R.T. 0.01 min
 Lab File: VW013489.D
 Acq: 08 Oct 2019 16:19

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

Tot Ion	Ratio	Lower	Upper
107	100		
109	91.6	76.6	115.0

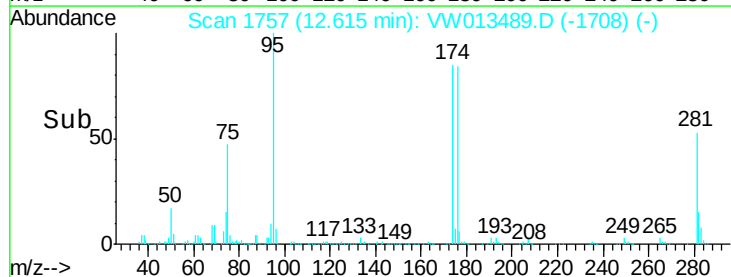
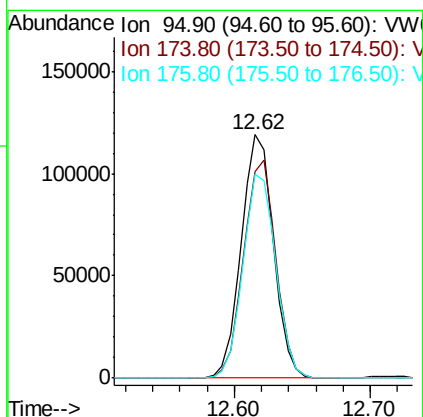
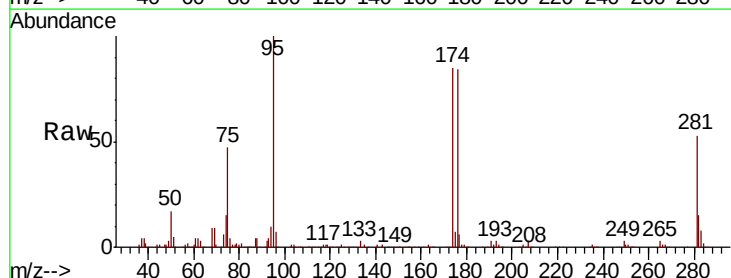
Manual Integrations
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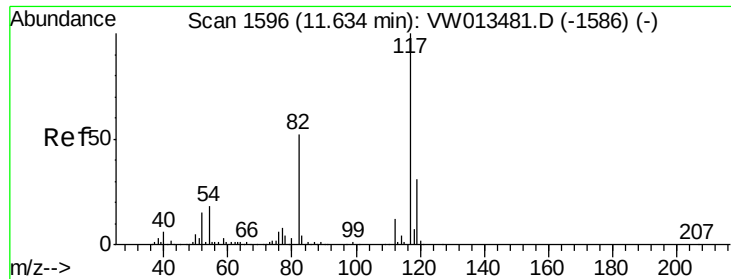
MMDadoda
 10/9/2019 4:10:01 PM



#62
 4-Bromofluorobenzene
 Concen: 51.992 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VW013489.D
 Acq: 08 Oct 2019 16:19

Tgt Ion	Ratio	Lower	Upper
95	100		
174	90.0	0.0	177.4
176	85.7	0.0	173.4





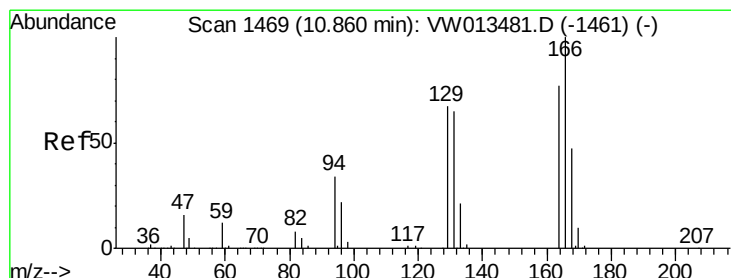
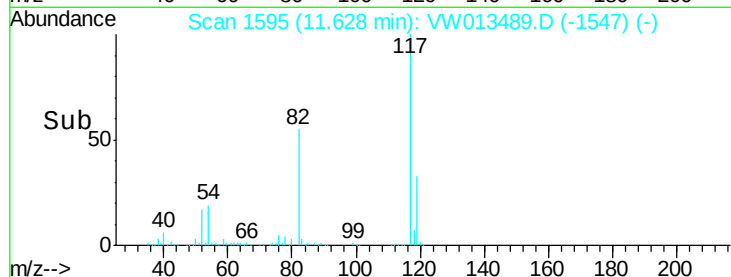
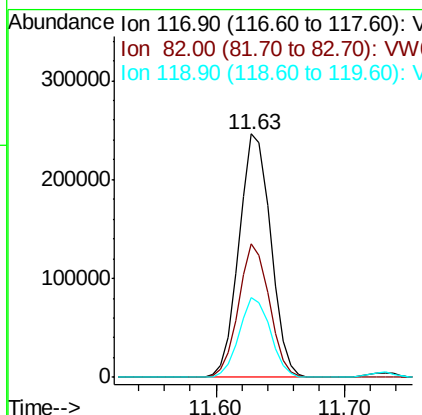
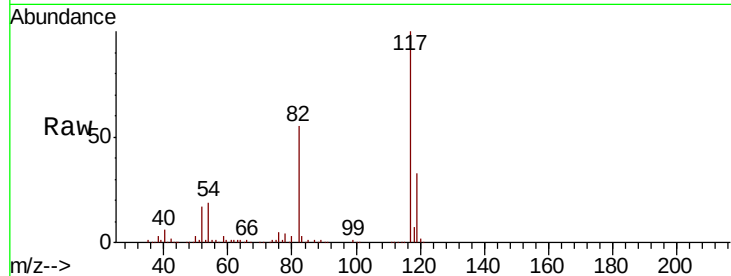
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

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

Tot Ion	Ratio	Resp	Lower	Upper
117	100	420094		
82	55.1		41.4	62.2
119	32.7		25.1	37.7

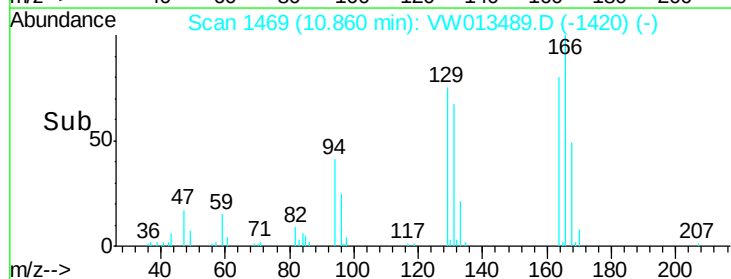
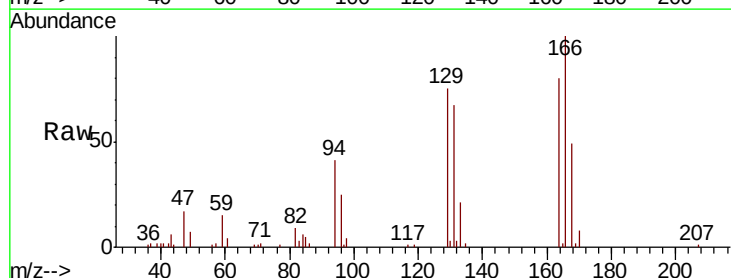
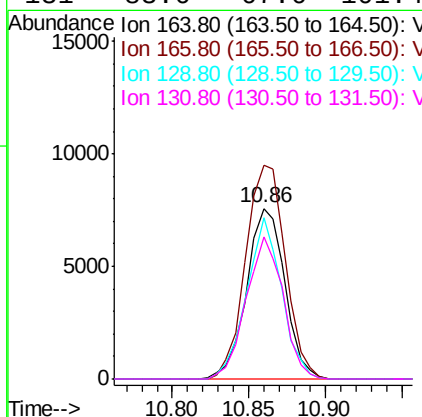
Manual Integrations
APPROVED

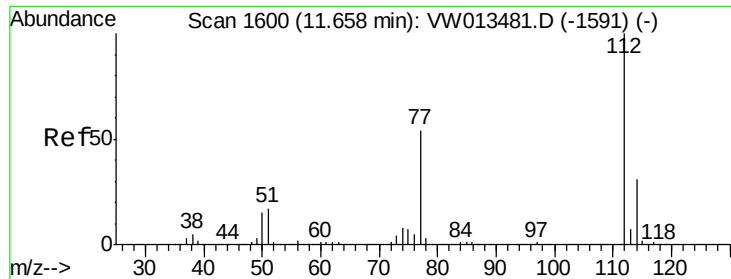
MMDadoda
10/9/2019 4:10:01 PM



#64
Tetrachloroethene
Concen: 4.257 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	13163		
166	125.2		104.6	156.8
129	94.4		70.2	105.2
131	83.6		67.6	101.4





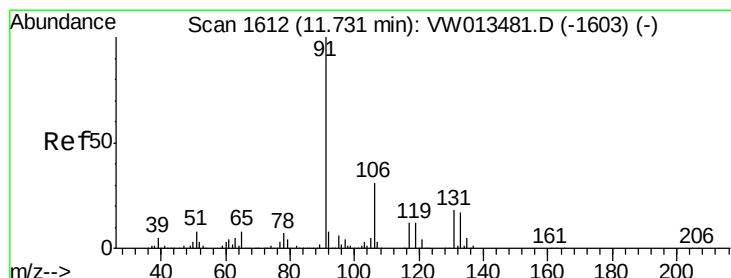
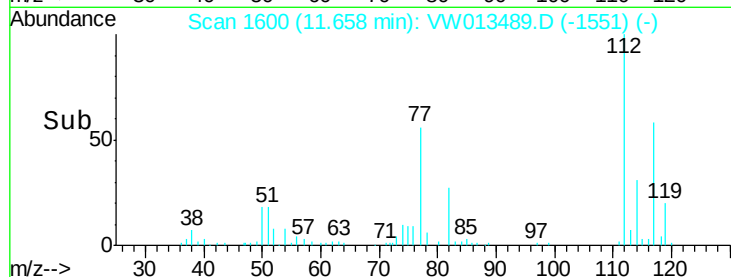
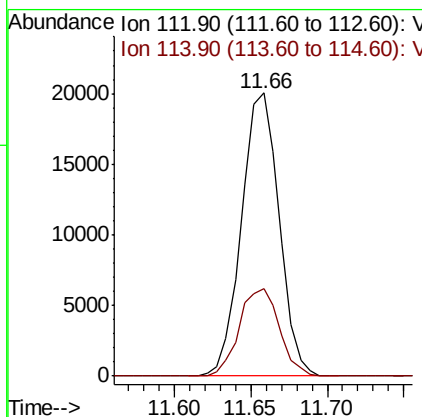
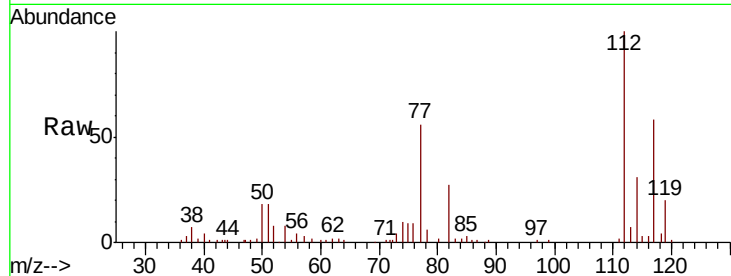
#65
Chlorobenzene
Concen: 4.105 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

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

Tot Ion:112 Resp: 34265
Ion Ratio Lower Upper
112 100
114 30.7 24.6 37.0

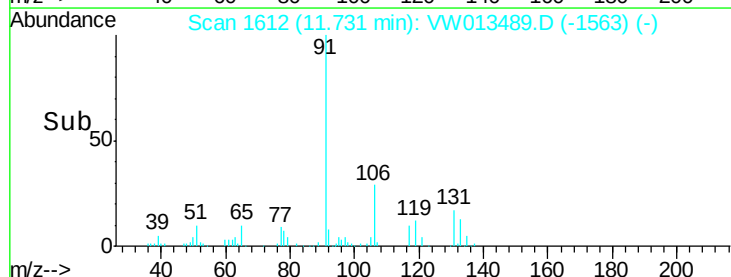
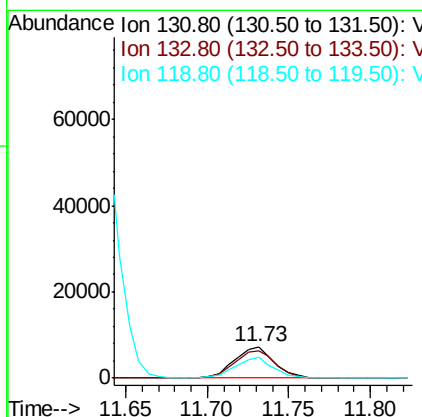
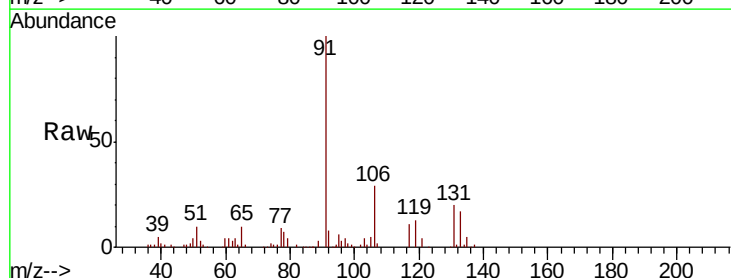
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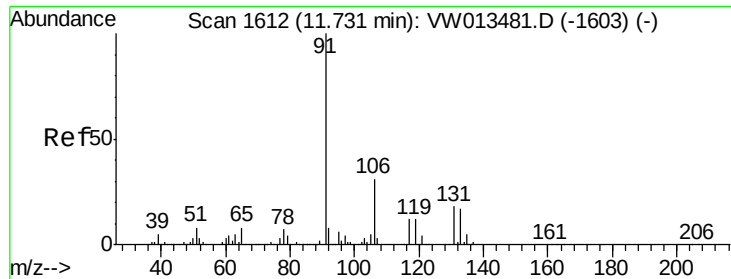
MMDadoda
10/9/2019 4:10:01 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 4.152 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

Tgt Ion:131 Resp: 12039
Ion Ratio Lower Upper
131 100
133 90.9 47.6 142.9
119 65.4 32.6 98.0





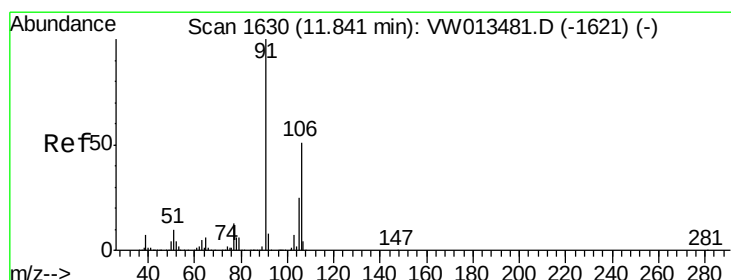
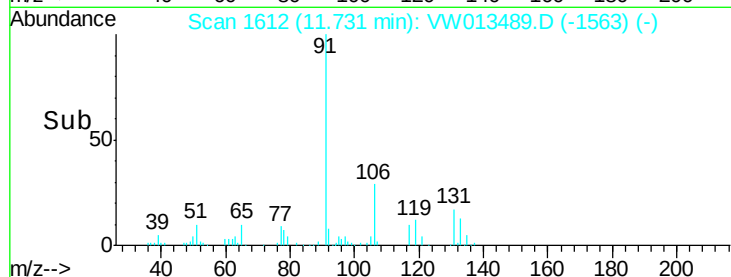
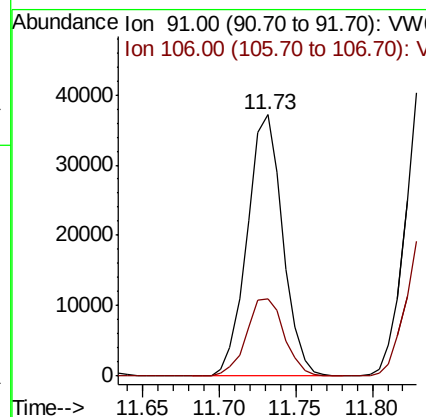
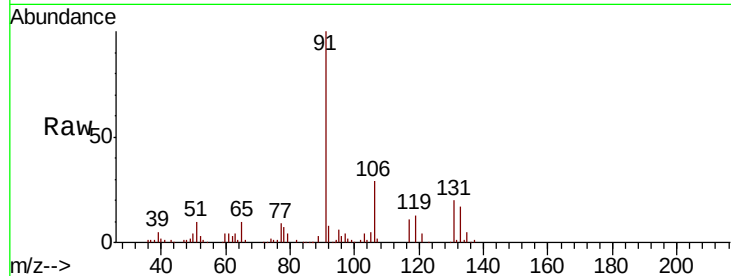
#67
Ethyl Benzene
Concen: 3.942 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

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

Tot Ion: 91 Resp: 60142
Ion Ratio Lower Upper
91 100
106 29.5 24.8 37.2

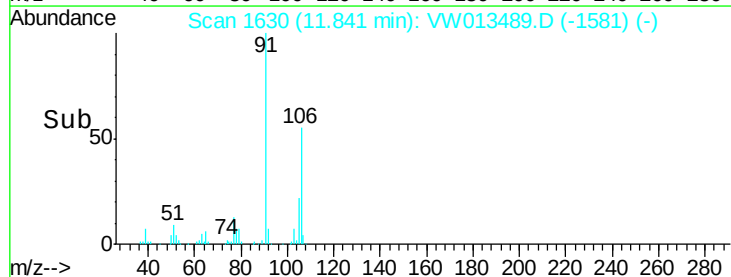
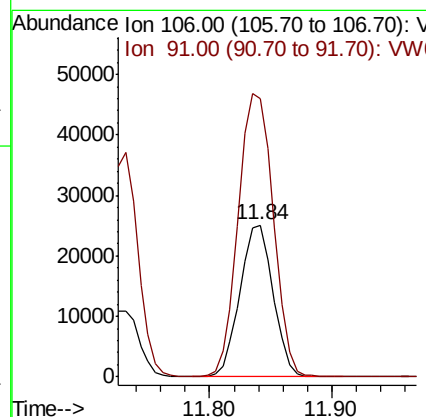
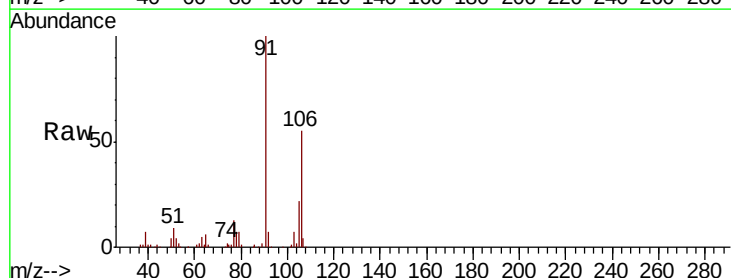
Manual Integrations
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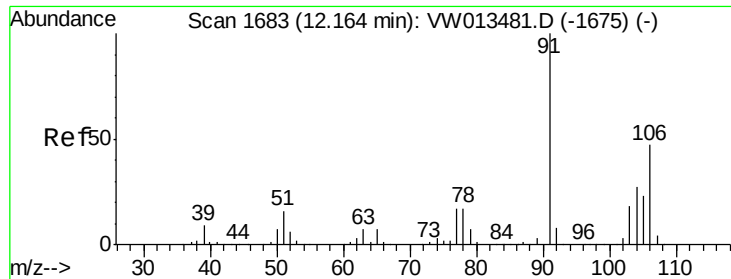
MMDadoda
10/9/2019 4:10:01 PM



#68
m/p-Xylenes
Concen: 8.156 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

Tgt Ion: 106 Resp: 47345
Ion Ratio Lower Upper
106 100
91 197.3 156.2 234.4





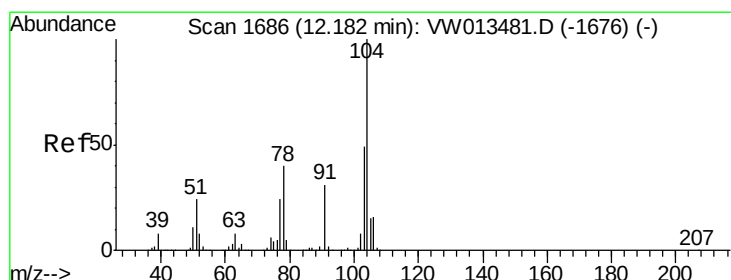
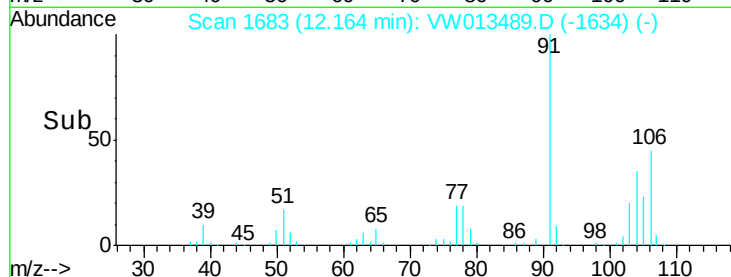
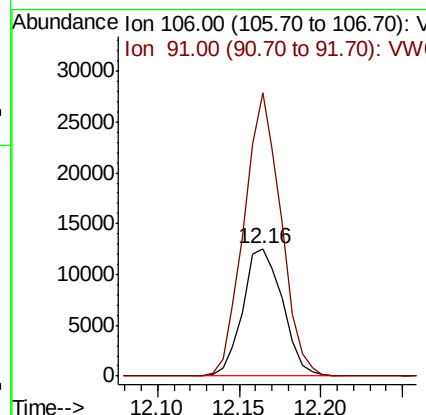
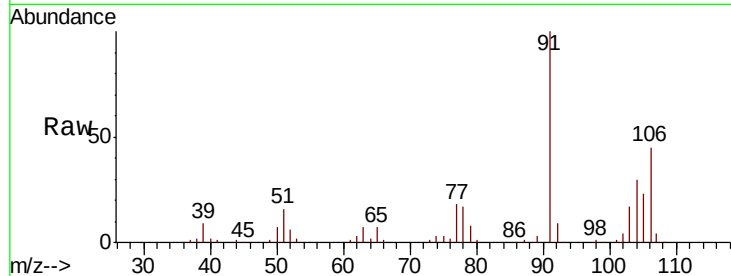
#69
o-Xylene
Concen: 3.940 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

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

Tot Ion:106 Resp: 21134
Ion Ratio Lower Upper
106 100
91 208.1 105.0 315.0

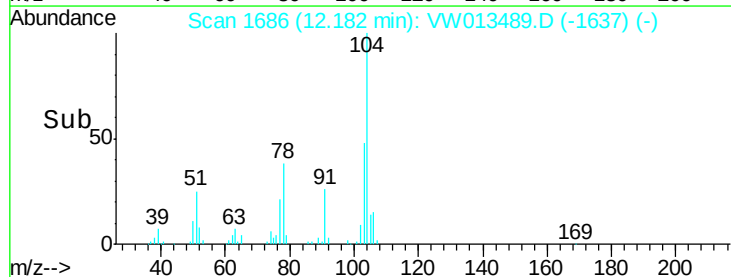
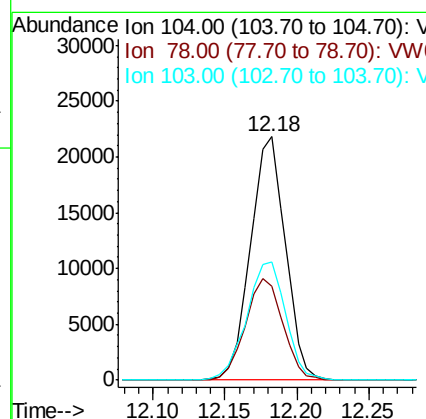
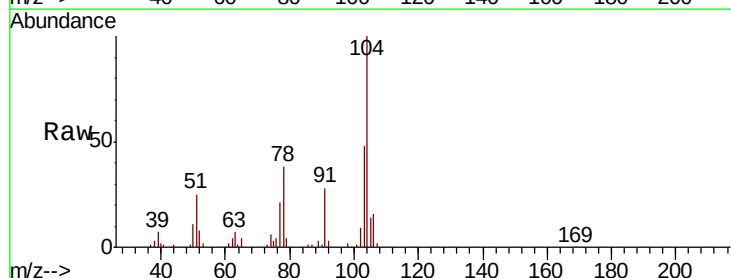
Manual Integrations
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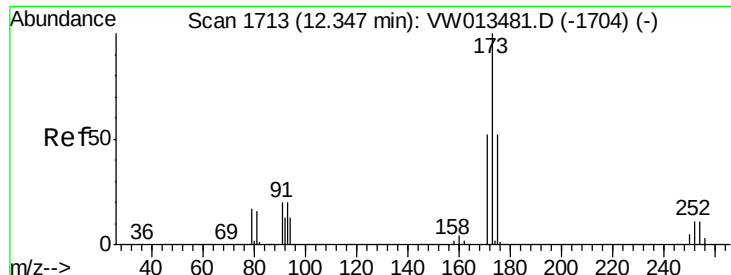
MMDadoda
10/9/2019 4:10:01 PM



#70
Styrene
Concen: 3.965 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

Tgt Ion:104 Resp: 36516
Ion Ratio Lower Upper
104 100
78 44.8 37.1 55.7
103 54.3 43.2 64.8





#71

Bromoform

Concen: 3.810 ug/l

RT: 12.35 min Scan# 1714

Delta R.T. 0.01 min

Lab File: VW013489.D

Acq: 08 Oct 2019 16:19

Instrument :

MSVOA_W

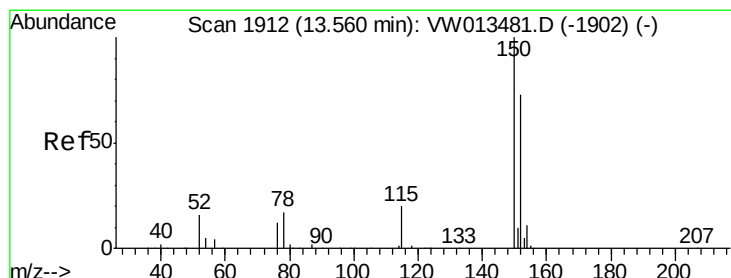
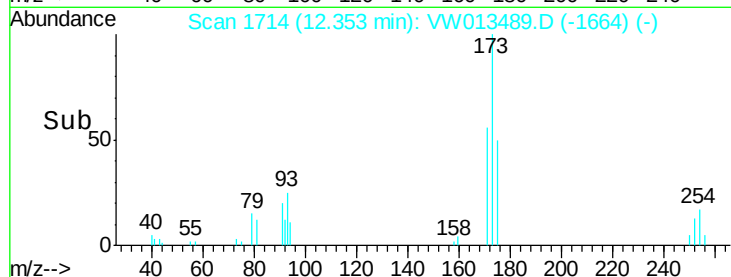
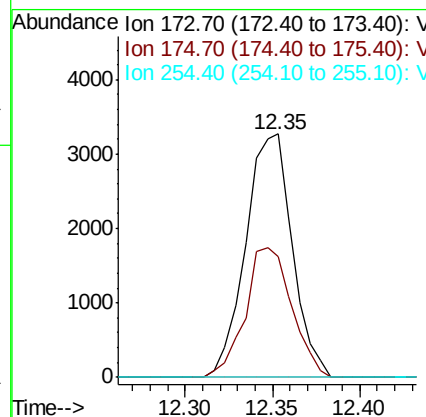
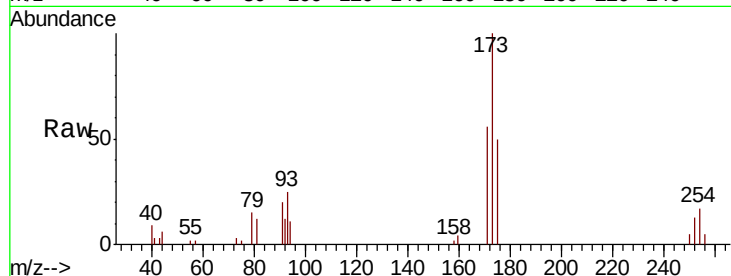
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
173	100		
175	53.2	24.4	73.4
254	0.0	0.1	0.1

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10/9/2019 4:10:01 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

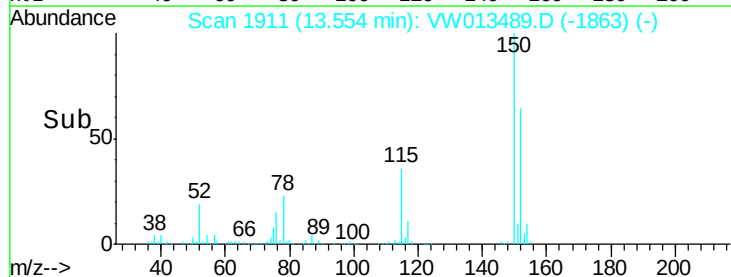
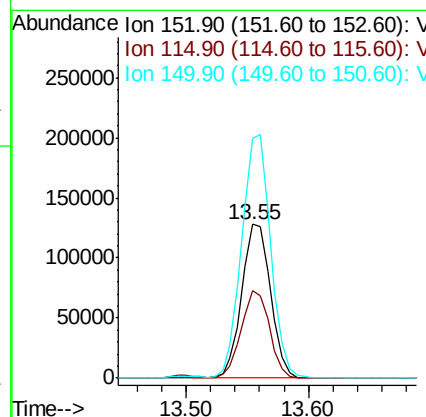
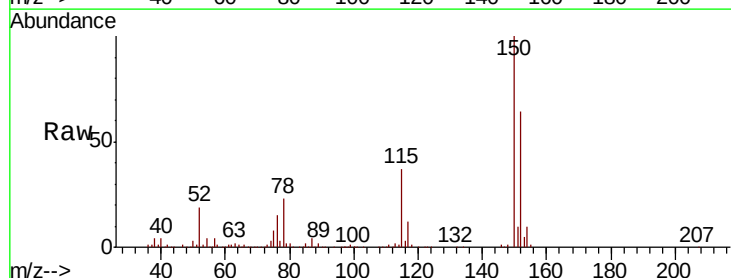
RT: 13.55 min Scan# 1911

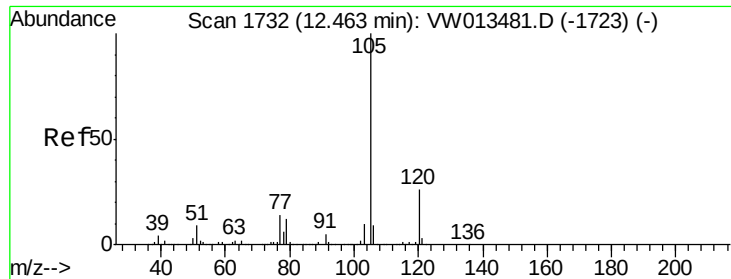
Delta R.T. -0.01 min

Lab File: VW013489.D

Acq: 08 Oct 2019 16:19

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.6	27.0	81.0
150	158.4	0.0	337.4





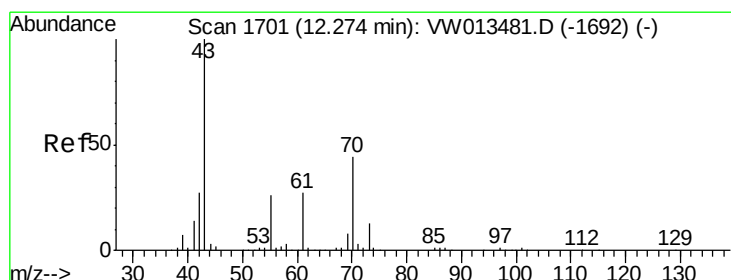
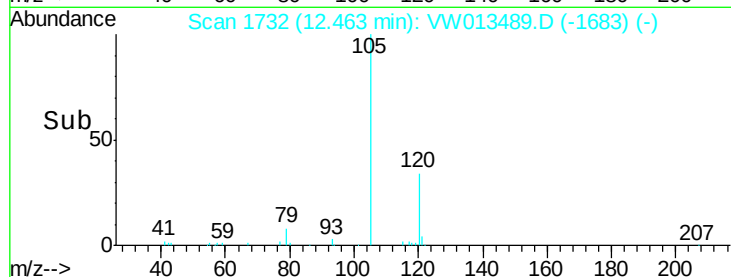
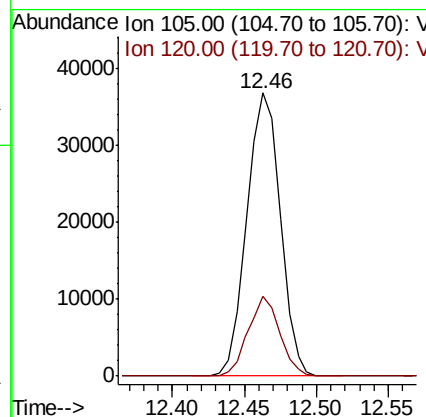
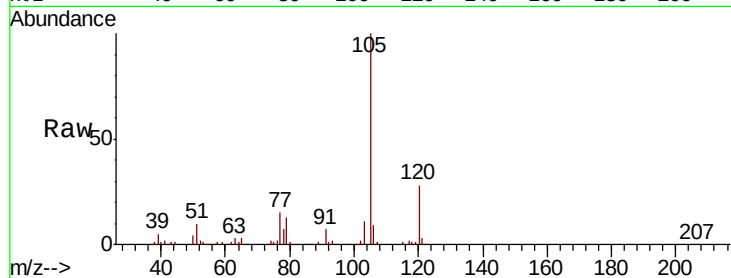
#73
Isopropylbenzene
Concen: 3.955 ug/l
RT: 12.46 min Scan# 1732
Delta R.T. 0.00 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

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

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.7	13.5	40.5

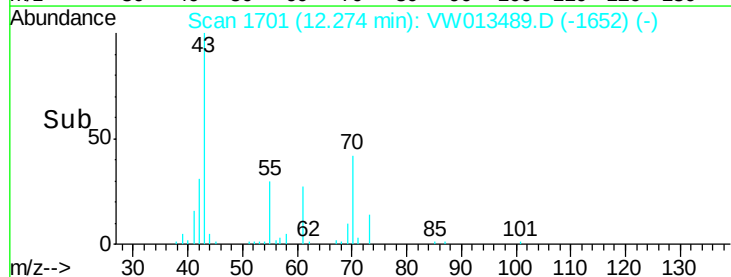
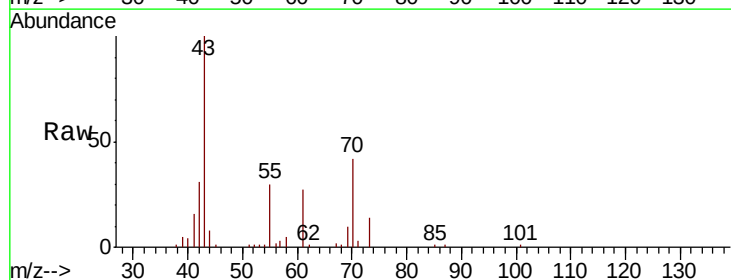
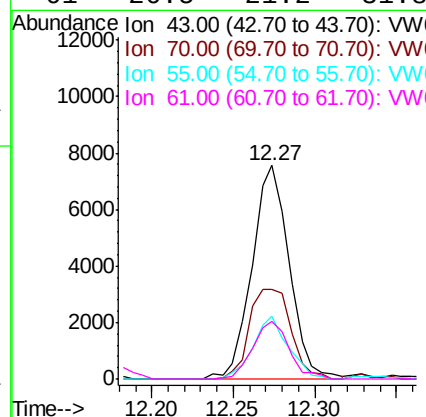
Manual Integrations
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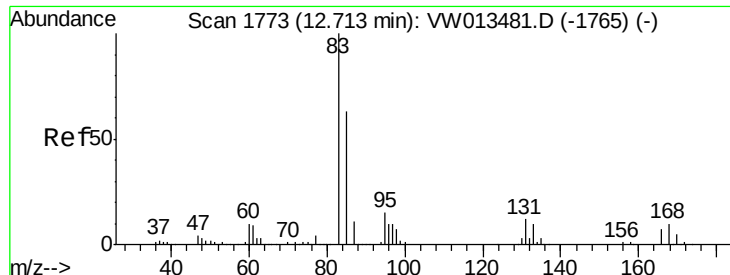
MMDadoda
10/9/2019 4:10:01 PM



#74
N-ethyl acetate
Concen: 3.677 ug/l
RT: 12.27 min Scan# 1701
Delta R.T. 0.00 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

Tgt Ion	Ratio	Lower	Upper
43	100		
70	47.1	35.3	52.9
55	28.0	20.0	30.0
61	26.5	21.2	31.8





#75

1,1,2,2-Tetrachloroethane

Concen: 3.982 ug/l

RT: 12.72 min Scan# 1774

Delta R.T. 0.01 min

Lab File: VW013489.D

Acq: 08 Oct 2019 16:19

Instrument :

MSVOA_W

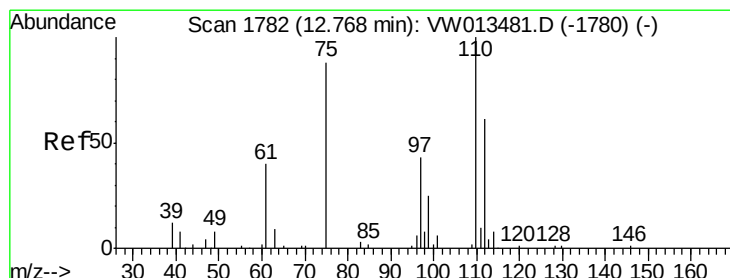
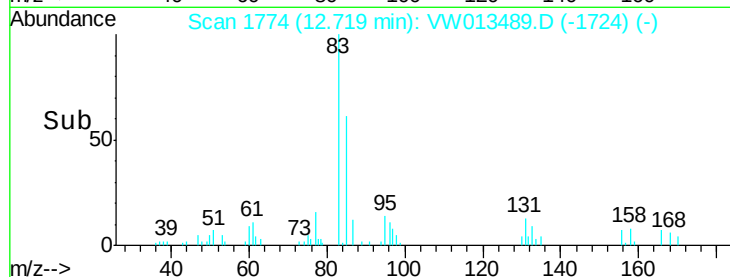
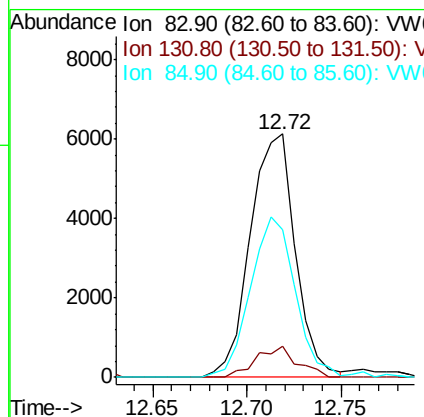
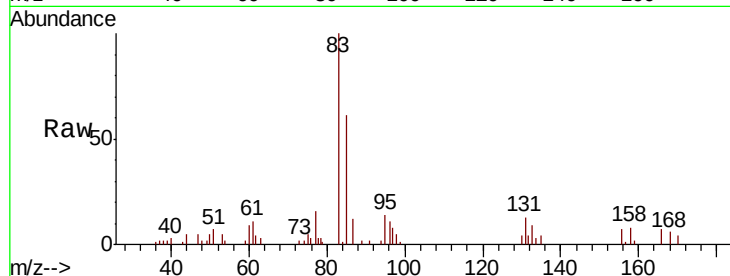
ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion:	83	Resp:	10161
Ion Ratio	Lower	Upper	
83	100		
131	11.6	5.9	17.7
85	65.8	32.5	97.4

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MMDadoda
10/9/2019 4:10:01 PM



#76

1,2,3-Trichloropropane

Concen: 4.793 ug/l m

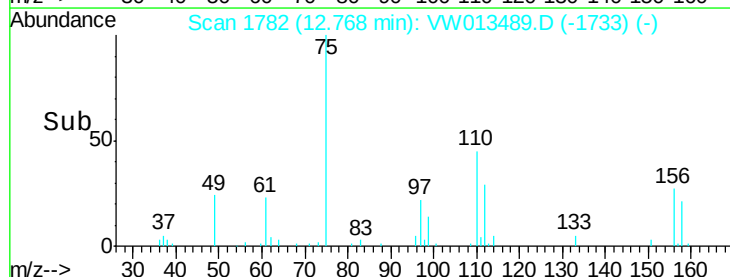
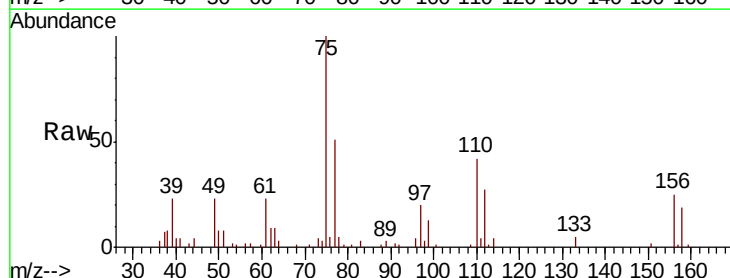
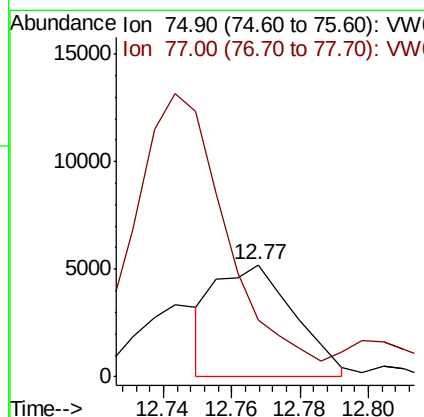
RT: 12.77 min Scan# 1782

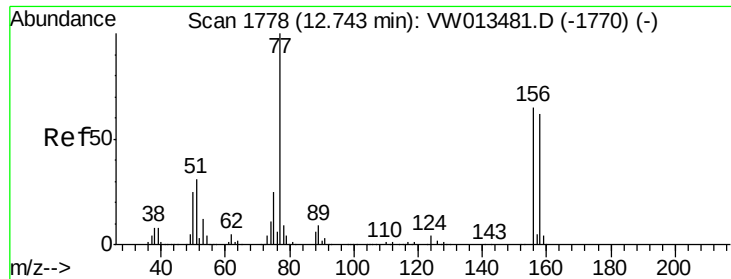
Delta R.T. 0.00 min

Lab File: VW013489.D

Acq: 08 Oct 2019 16:19

Tgt Ion:	75	Resp:	8343
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





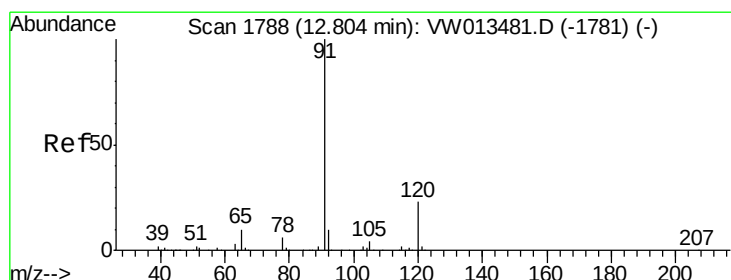
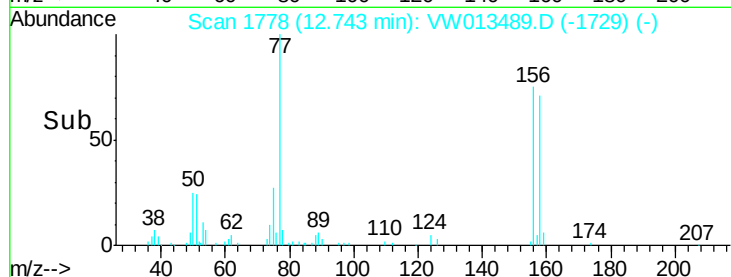
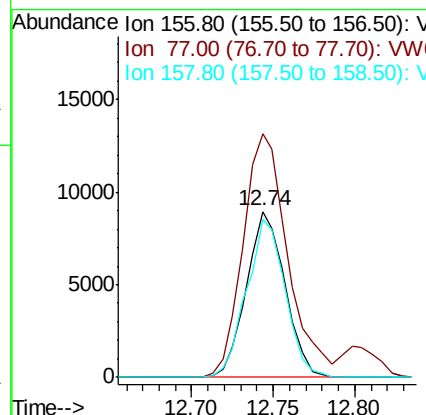
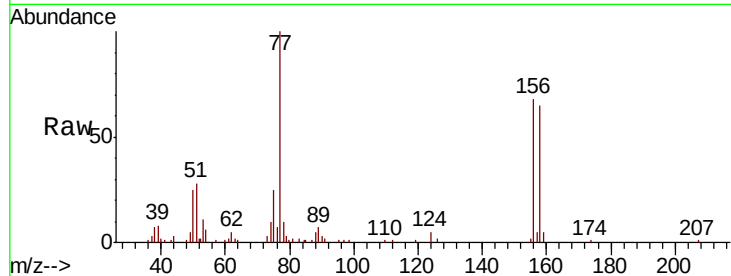
#77
Bromobenzene
Concen: 4.133 ug/l
RT: 12.74 min Scan# 1778
Delta R.T. 0.00 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

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

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	170.7	83.7	251.0	
158	96.1	49.0	147.0	

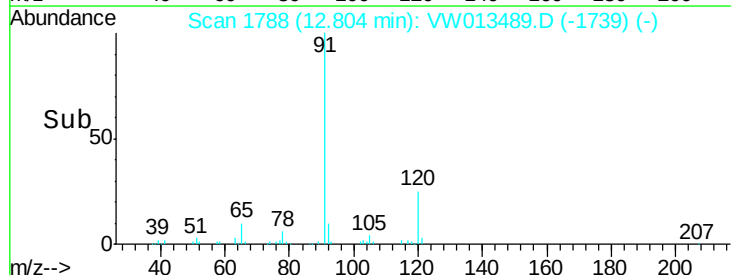
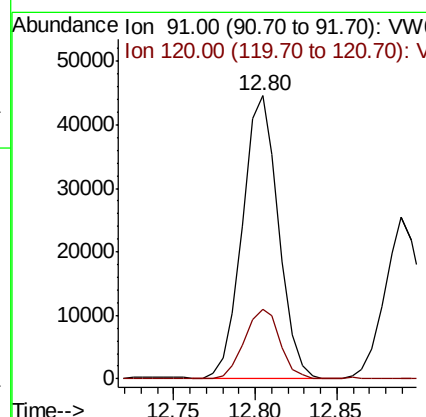
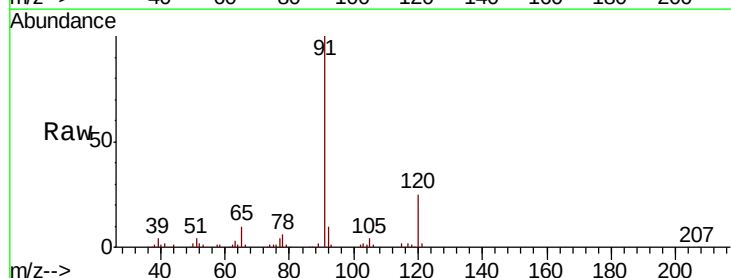
Manual Integrations
APPROVED

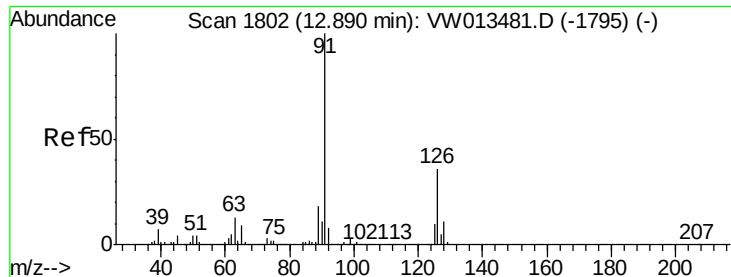
MMDadoda
10/9/2019 4:10:01 PM



#78
n-propylbenzene
Concen: 3.954 ug/l
RT: 12.80 min Scan# 1788
Delta R.T. 0.00 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	24.3	11.7	35.1	





#79

2-Chlorotoluene

Concen: 4.089 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VW013489.D

Acq: 08 Oct 2019 16:19

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion: 91 Resp: 39652

Ion Ratio Lower Upper

91 100

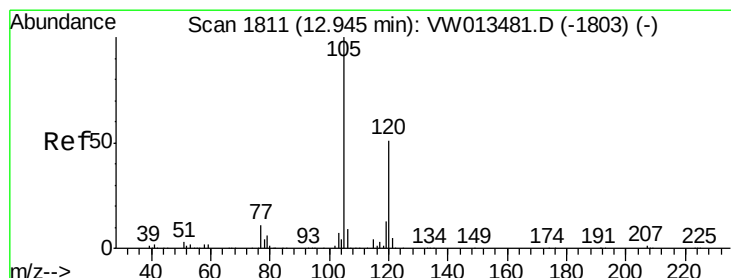
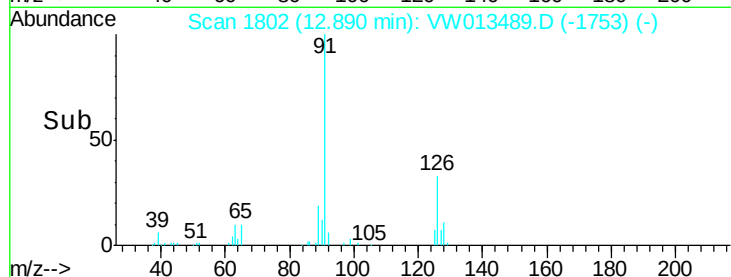
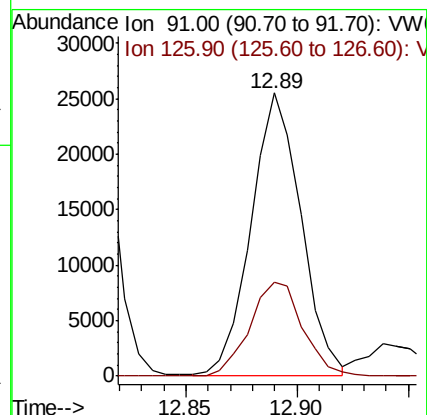
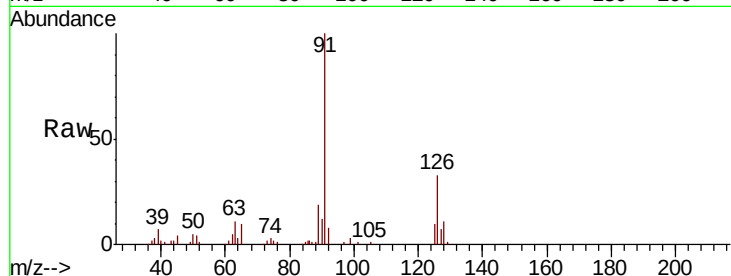
126 35.1 17.8 53.4

Manual Integrations

APPROVED

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10/9/2019 4:10:01 PM



#80

1,3,5-Trimethylbenzene

Concen: 4.042 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW013489.D

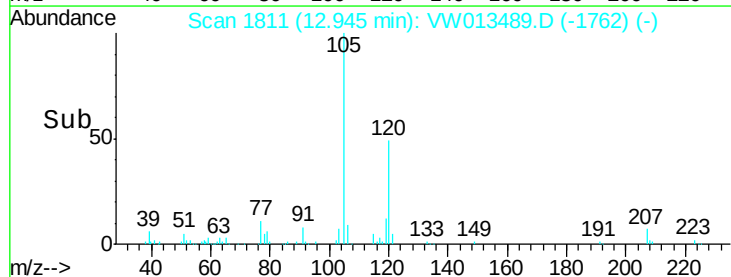
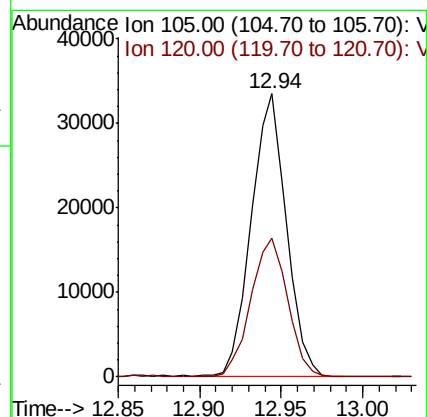
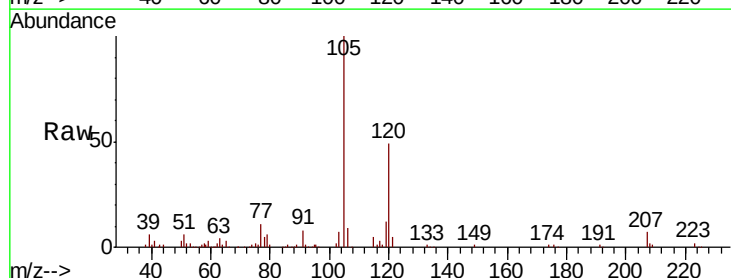
Acq: 08 Oct 2019 16:19

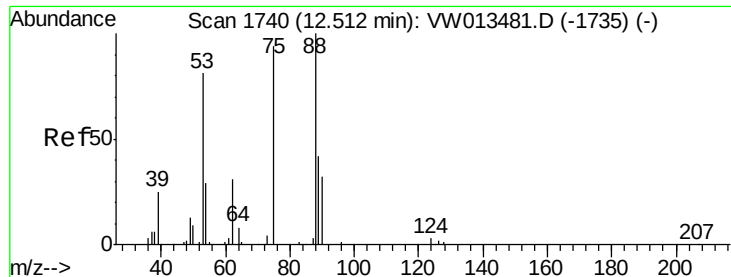
Tgt Ion:105 Resp: 50273

Ion Ratio Lower Upper

105 100

120 51.5 25.4 76.0





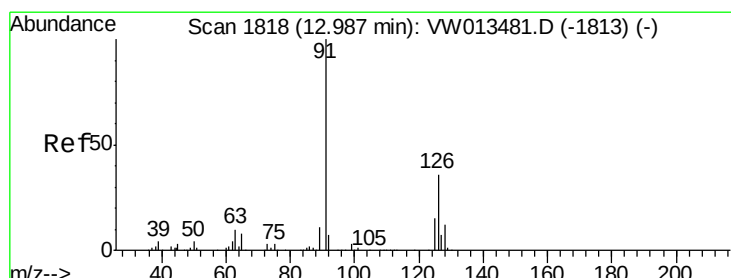
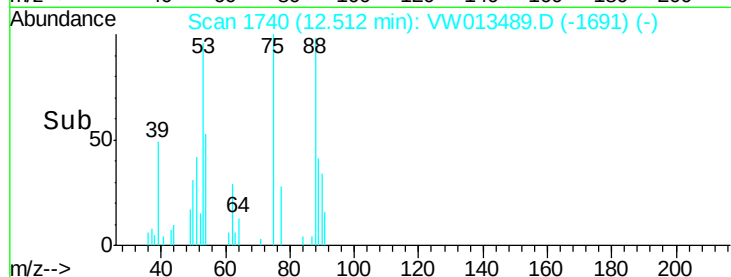
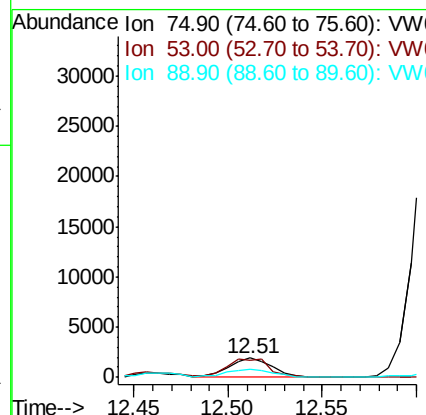
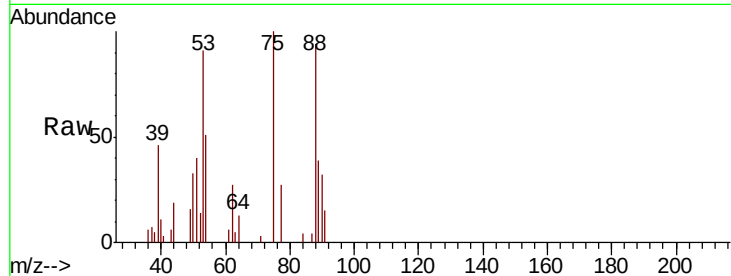
#81
trans-1,4-Dichloro-2-butene
Concen: 3.574 ug/l
RT: 12.51 min Scan# 1740
Delta R.T. 0.00 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

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

Tot Ion: 75 Resp: 3043
Ion Ratio Lower Upper
75 100
53 99.4 71.0 106.6
89 45.6 36.1 54.1

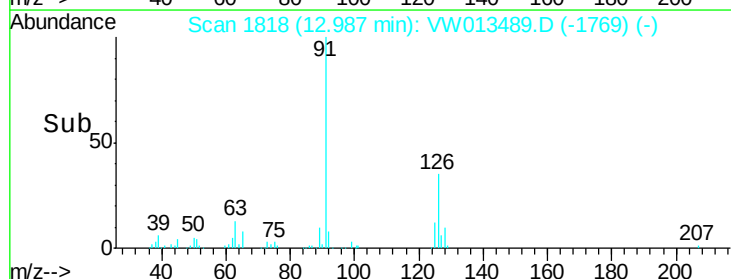
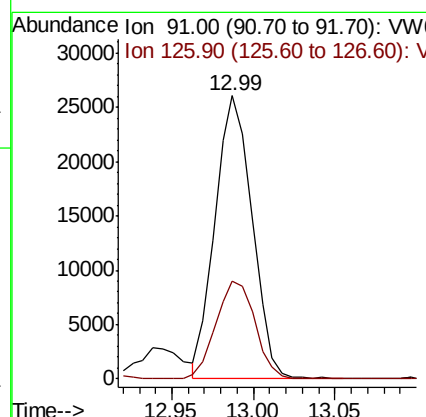
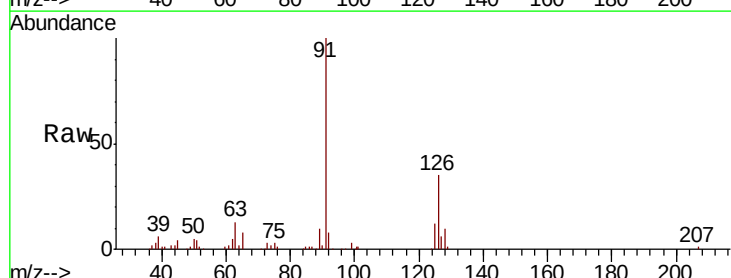
Manual Integrations
APPROVED

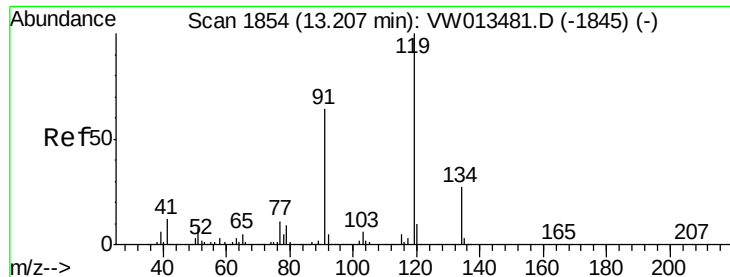
MMDadoda
10/9/2019 4:10:01 PM



#82
4-Chlorotoluene
Concen: 4.114 ug/l
RT: 12.99 min Scan# 1818
Delta R.T. 0.00 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

Tgt Ion: 91 Resp: 41414
Ion Ratio Lower Upper
91 100
126 36.4 17.5 52.6





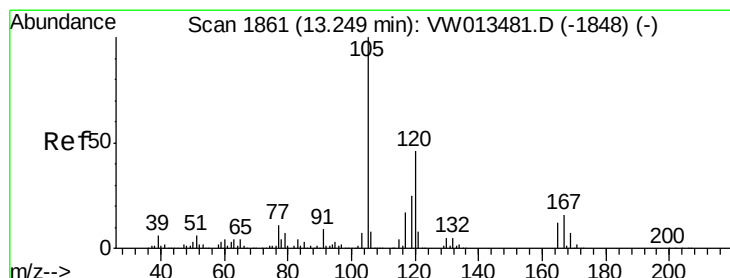
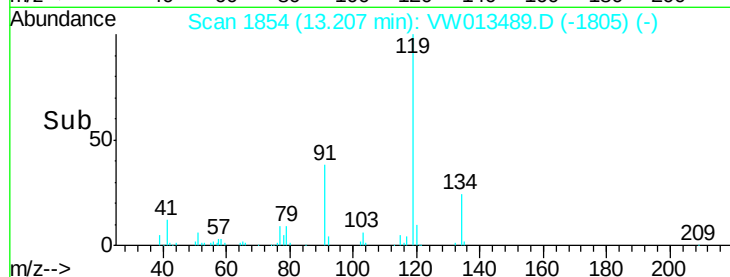
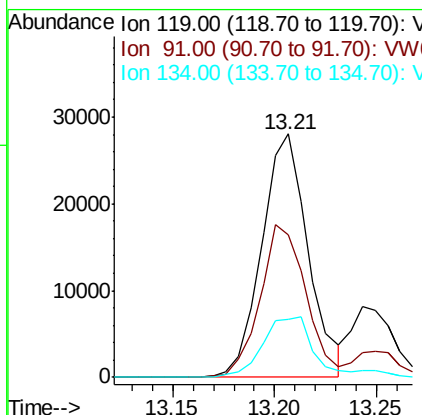
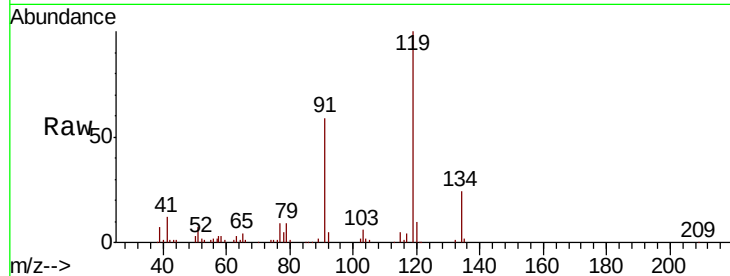
#83
tert-Butylbenzene
Concen: 4.034 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

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

Tot Ion	Ratio	Lower	Upper
119	100		
91	61.7	30.6	91.6
134	26.6	13.8	41.3

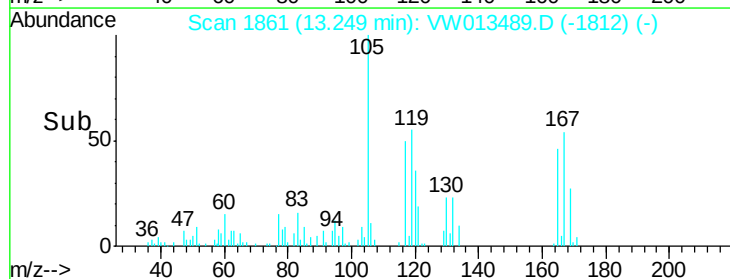
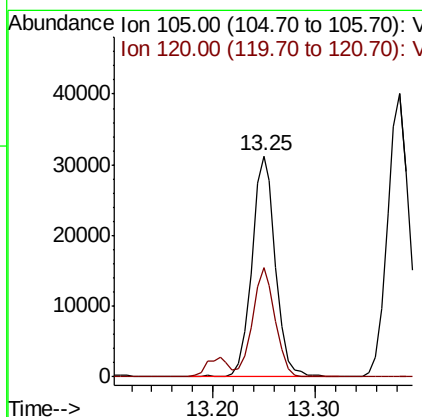
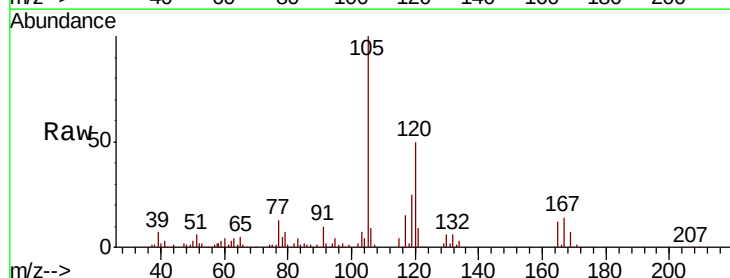
Manual Integrations
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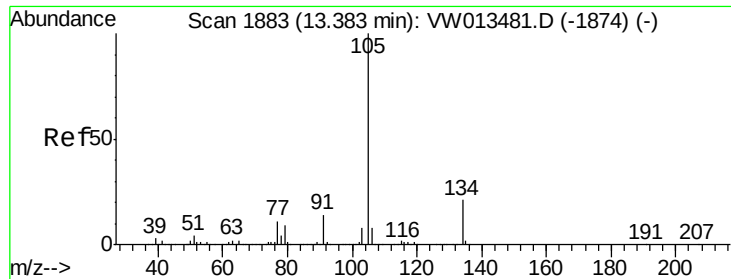
MMDadoda
10/9/2019 4:10:01 PM



#84
1,2,4-Trimethylbenzene
Concen: 4.094 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.7	23.2	69.5





#85

sec-Butylbenzene

Concen: 3.930 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VW013489.D

Acq: 08 Oct 2019 16:19

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2019

Tot Ion:105 Resp: 59977

Ion Ratio Lower Upper

105 100

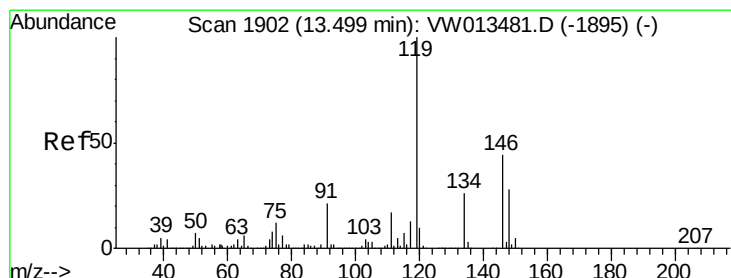
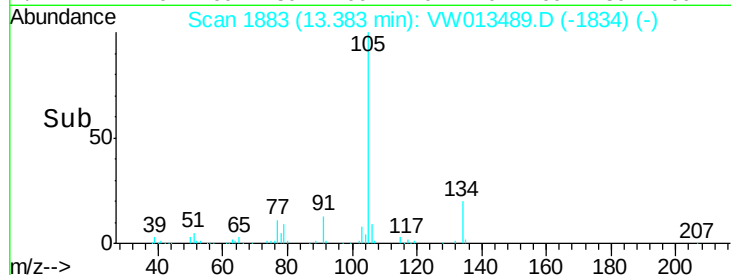
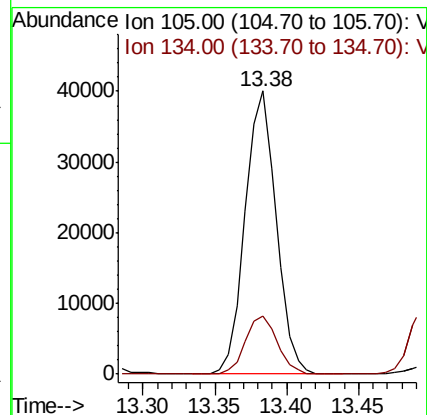
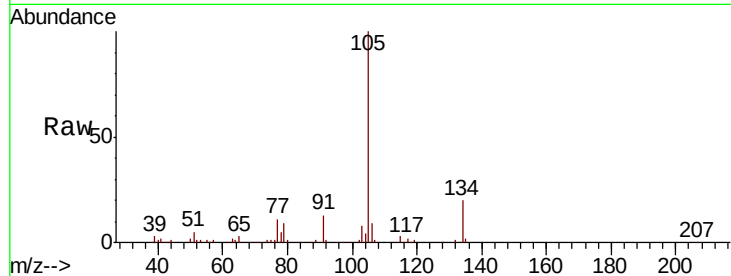
134 20.9 10.4 31.4

Manual Integrations

APPROVED

MMDadoda

10/9/2019 4:10:01 PM



#86

p-Isopropyltoluene

Concen: 4.004 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW013489.D

Acq: 08 Oct 2019 16:19

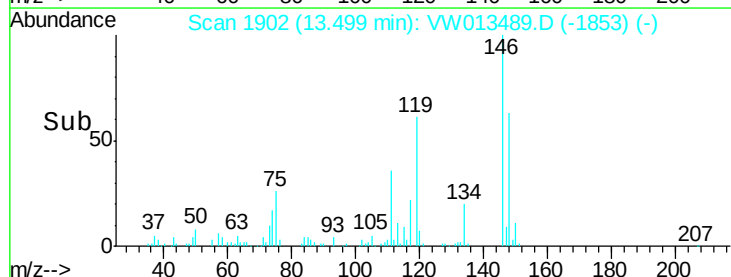
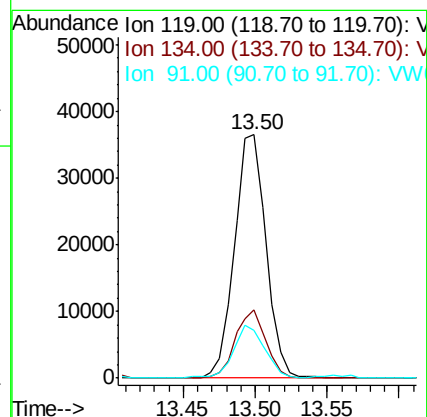
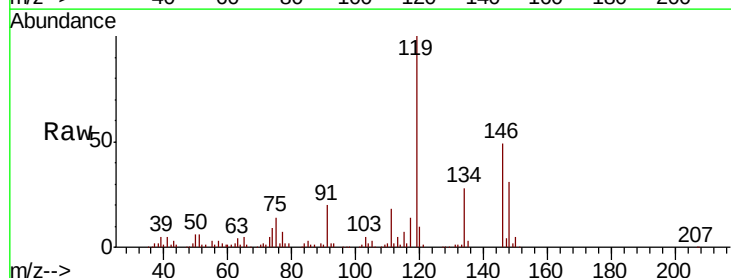
Tgt Ion:119 Resp: 56149

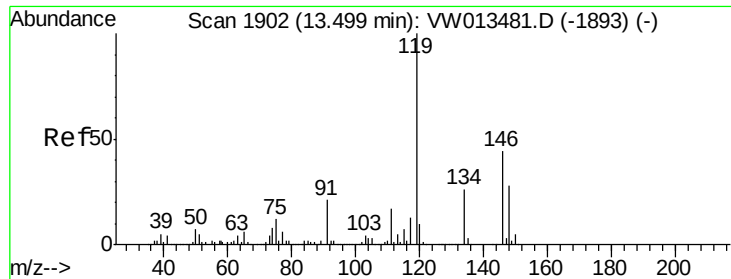
Ion Ratio Lower Upper

119 100

134 26.9 13.1 39.1

91 21.8 10.8 32.3





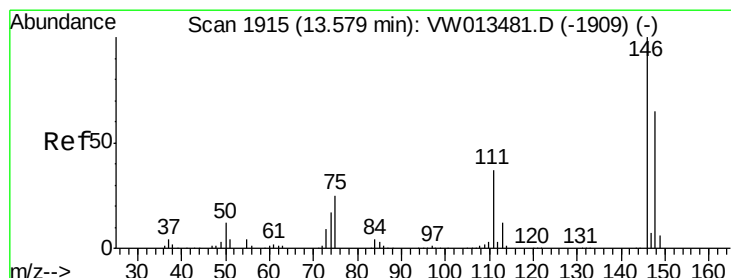
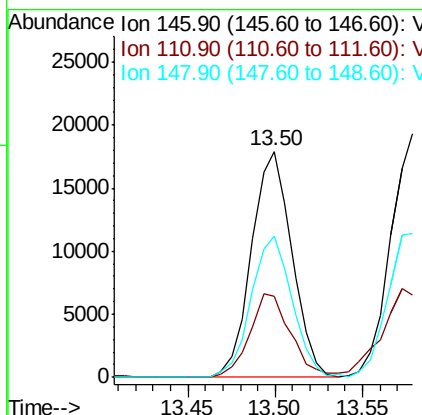
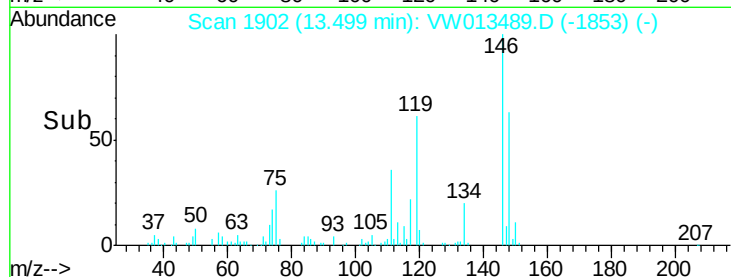
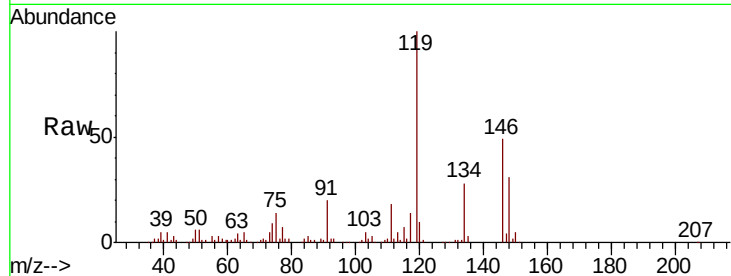
#87
 1,3-Dichlorobenzene
 Concen: 4.263 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW013489.D
 Acq: 08 Oct 2019 16:19

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.0	18.7	56.1
148	63.9	32.3	96.8

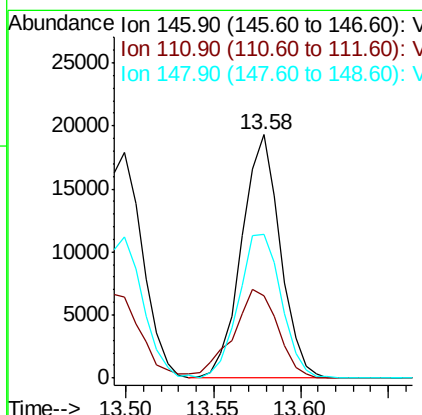
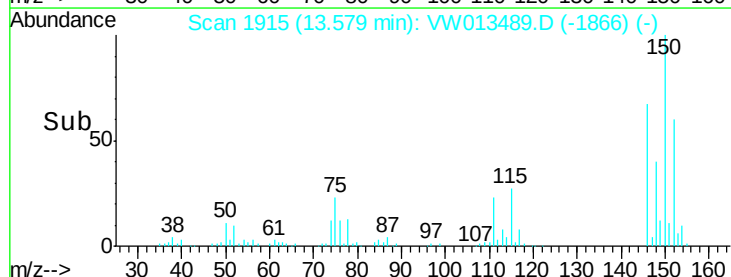
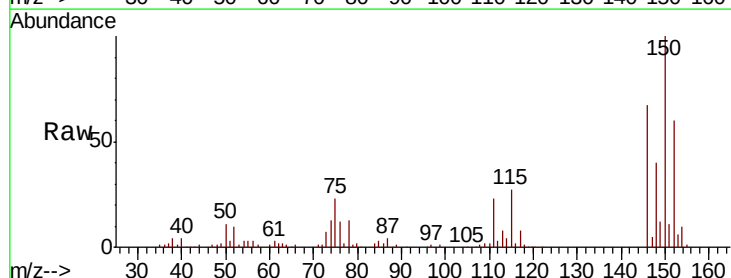
Manual Integrations
 APPROVED

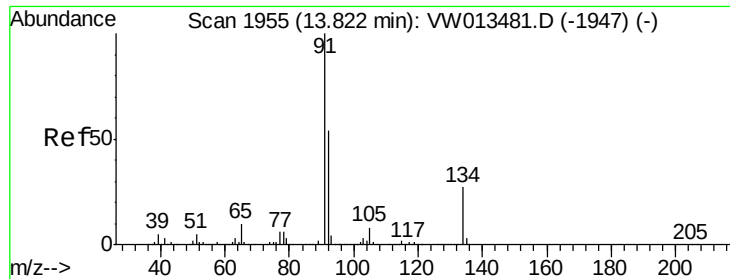
MMDadoda
 10/9/2019 4:10:01 PM



#88
 1,4-Dichlorobenzene
 Concen: 4.504 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW013489.D
 Acq: 08 Oct 2019 16:19

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.2	18.4	55.4
148	65.3	32.0	96.2





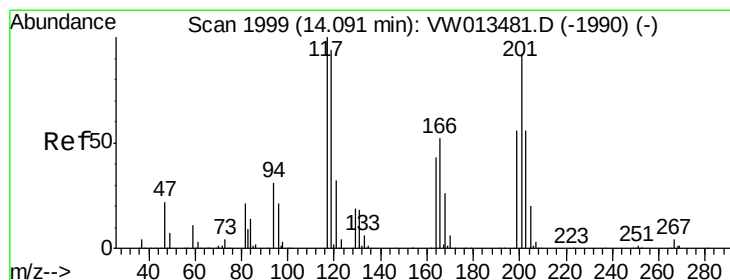
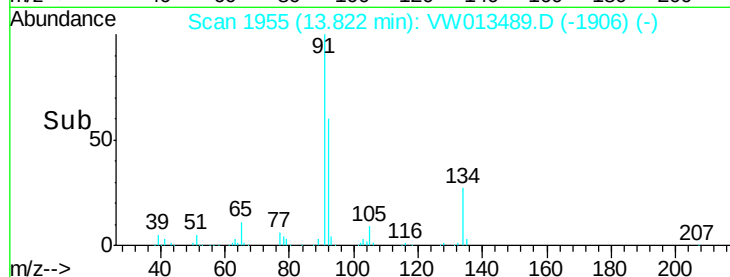
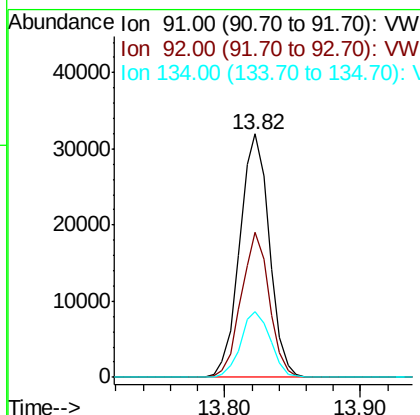
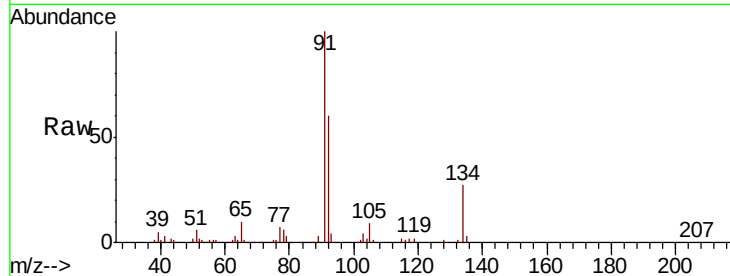
#89
n-Butylbenzene
Concen: 3.837 ug/l
RT: 13.82 min Scan# 1955
Delta R.T. 0.00 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

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

Tot Ion	Ratio	Lower	Upper
91	100		
92	56.3	27.5	82.4
134	27.2	13.8	41.3

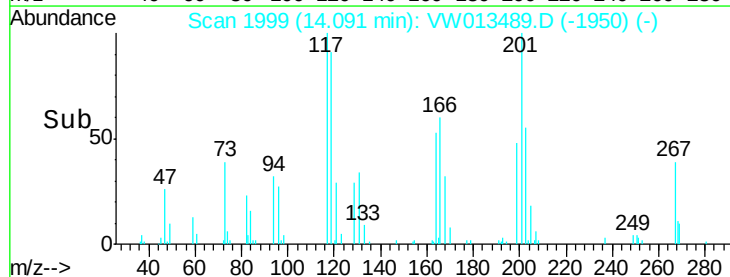
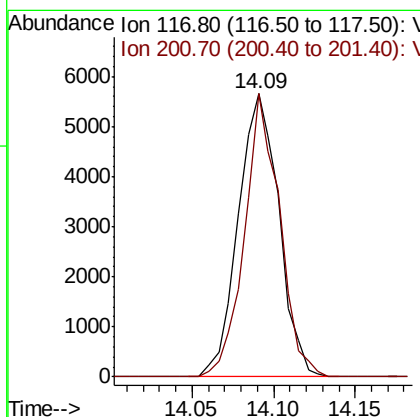
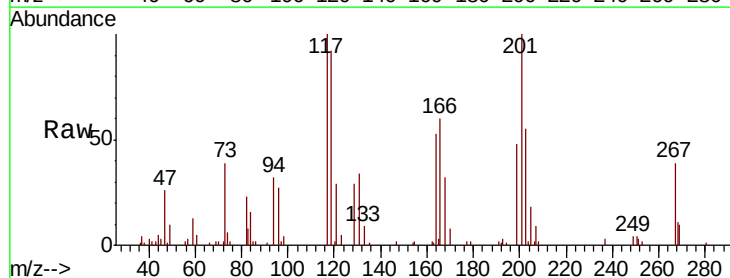
Manual Integrations
APPROVED

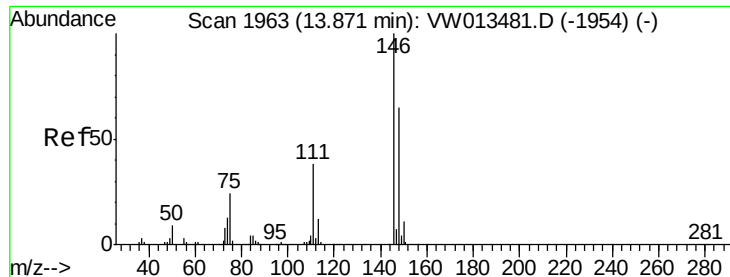
MMDadoda
10/9/2019 4:10:01 PM



#90
Hexachloroethane
Concen: 4.082 ug/l
RT: 14.09 min Scan# 1999
Delta R.T. 0.00 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

Tgt Ion	Ratio	Lower	Upper
117	100		
201	86.6	46.9	140.7





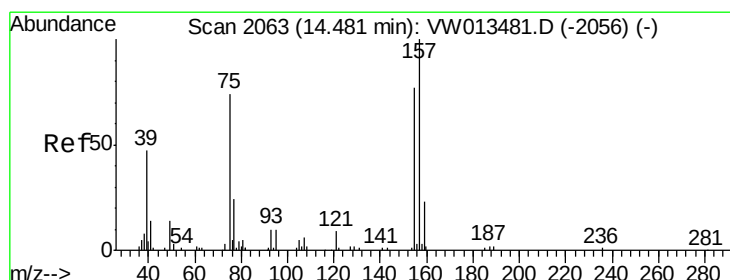
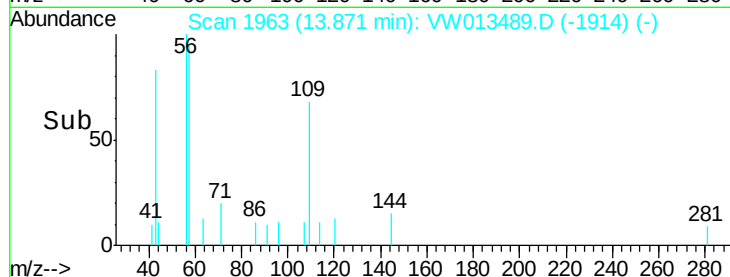
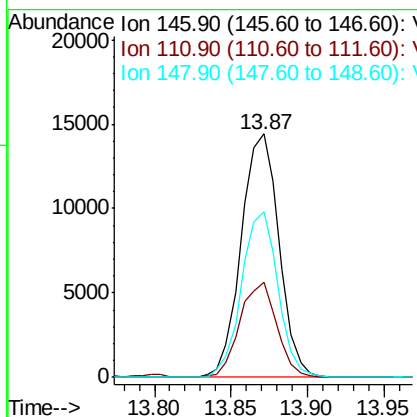
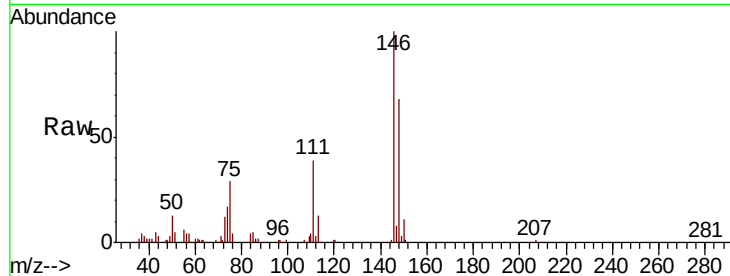
#91
 1,2-Dichlorobenzene
 Concen: 4.168 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW013489.D
 Acq: 08 Oct 2019 16:19

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.2	19.4	58.2
148	65.7	31.8	95.3

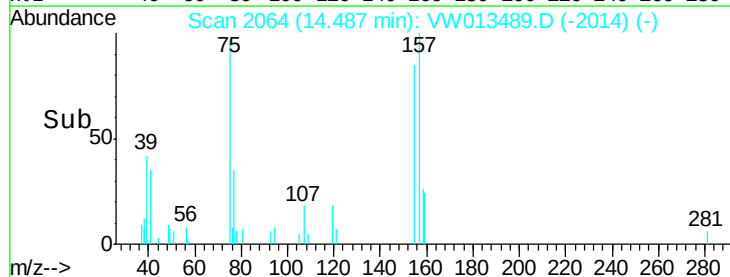
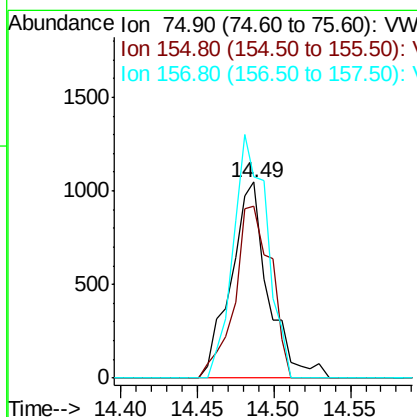
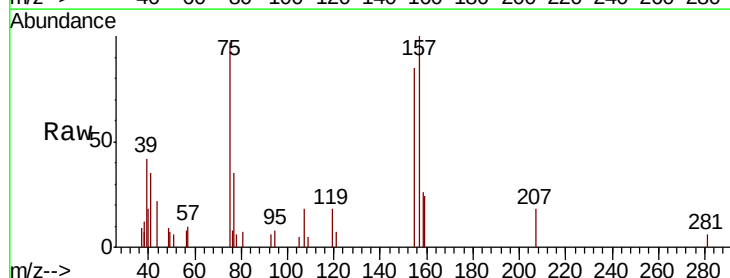
Manual Integrations
 APPROVED

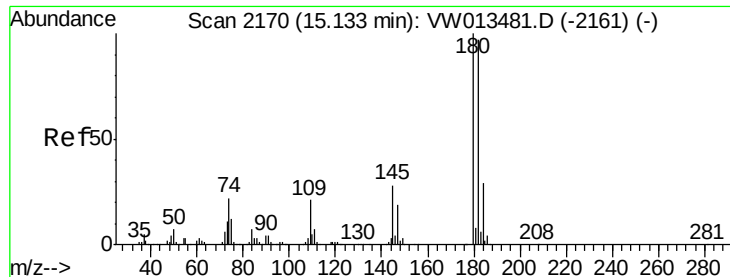
MMDadoda
 10/9/2019 4:10:01 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.354 ug/l
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.01 min
 Lab File: VW013489.D
 Acq: 08 Oct 2019 16:19

Tgt Ion	Ratio	Lower	Upper
75	100		
155	86.1	51.0	153.1
157	112.4	65.9	197.7





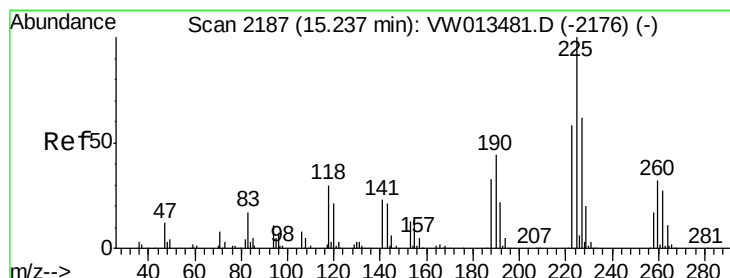
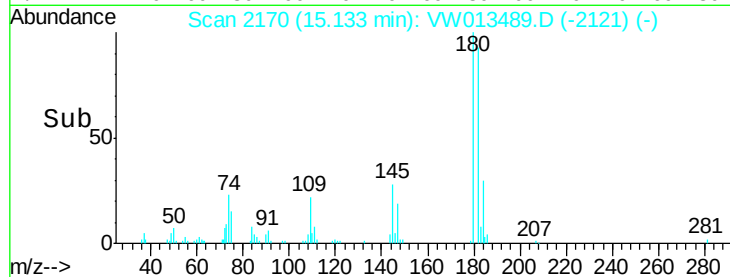
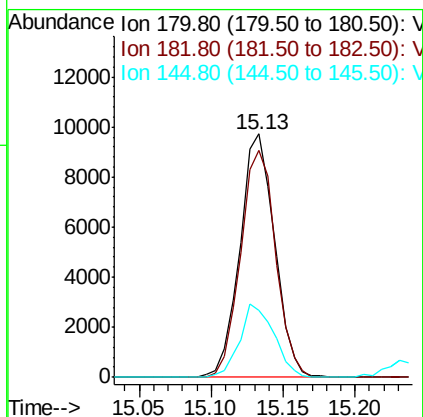
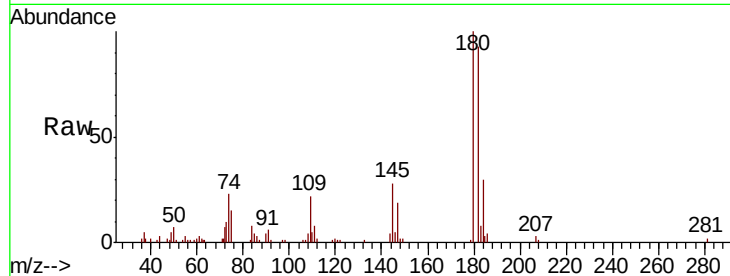
#93
 1,2,4-Trichlorobenzene
 Concen: 3.870 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW013489.D
 Acq: 08 Oct 2019 16:19

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

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.8	47.7	143.1
145	29.6	14.0	41.9

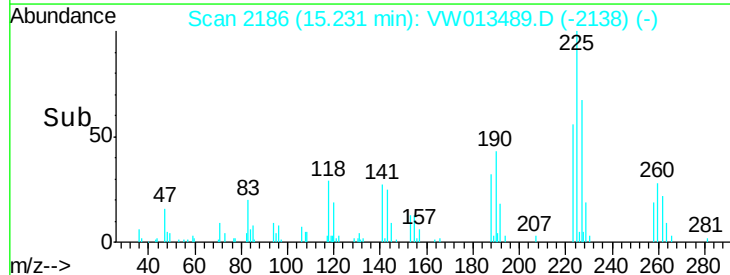
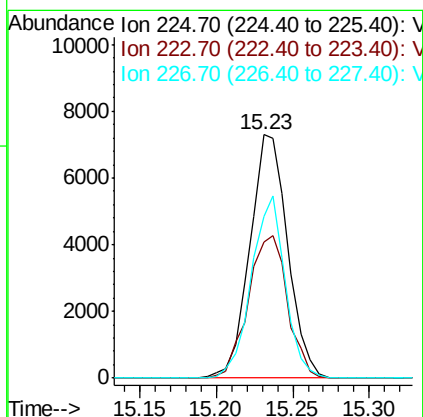
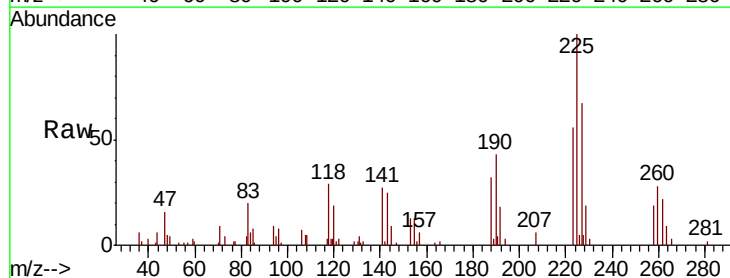
Manual Integrations
 APPROVED

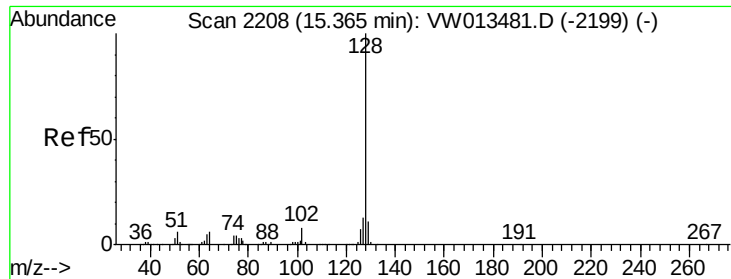
MMDadoda
 10/9/2019 4:10:01 PM



#94
 Hexachlorobutadiene
 Concen: 4.505 ug/l
 RT: 15.23 min Scan# 2186
 Delta R.T. -0.01 min
 Lab File: VW013489.D
 Acq: 08 Oct 2019 16:19

Tgt Ion	Ratio	Lower	Upper
225	100		
223	60.8	30.3	90.9
227	66.6	32.0	96.0





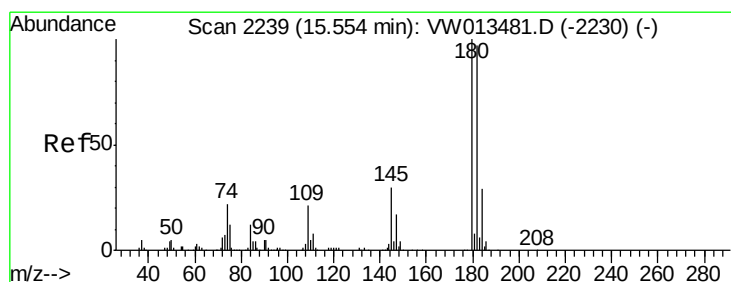
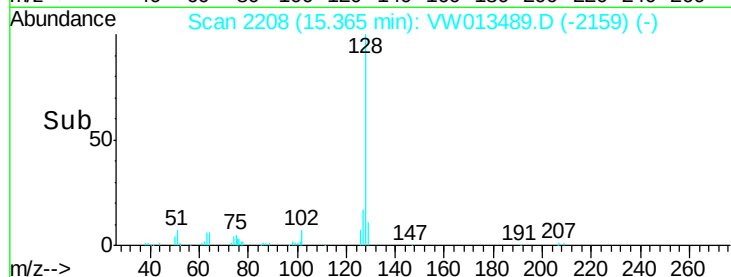
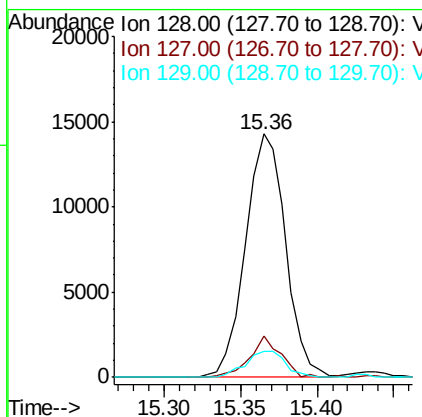
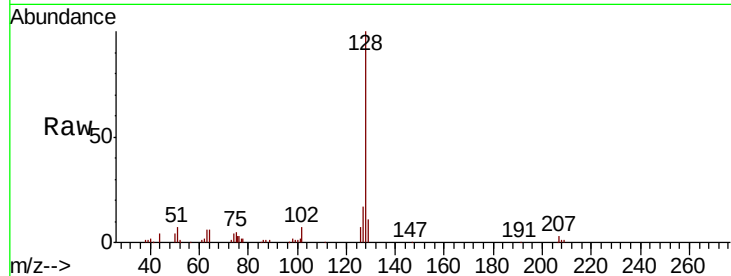
#95
Naphthalene
Concen: 3.588 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. 0.00 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

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

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.6	16.0
129	11.0	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
10/9/2019 4:10:01 PM



#96
1,2,3-Trichlorobenzene
Concen: 4.029 ug/l
RT: 15.56 min Scan# 2240
Delta R.T. 0.01 min
Lab File: VW013489.D
Acq: 08 Oct 2019 16:19

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.1	47.7	143.1
145	29.1	14.9	44.9

