

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW070819\
 Data File : VW011165.D
 Acq On : 08 Jul 2019 17:13
 Operator : SY/VA
 Sample : K3591-01LOD2.5PPB
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2019

Manual Integrations
 APPROVED

MMDadoda
 7/9/2019 4:13:20 PM

Quant Time: Jul 09 07:17:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W070819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 09 07:10:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	223227	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	376142	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	332723	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	161112	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	141661	50.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.00%	
35) Dibromofluoromethane	7.88	113	107828	48.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.20%	
50) Toluene-d8	10.32	98	439369	48.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.96%	
62) 4-Bromofluorobenzene	12.62	95	159241	47.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.88%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	4093	2.458	ug/l	92
3) Chloromethane	2.21	50	6051	2.821	ug/l	92
4) Vinyl Chloride	2.35	62	7287	2.595	ug/l	95
5) Bromomethane	2.77	94	4328	3.068	ug/l	87
6) Chloroethane	2.92	64	3675	2.430	ug/l	92
7) Trichlorofluoromethane	3.25	101	2073	2.078	ug/l #	80
8) Diethyl Ether	3.68	74	3754	2.720	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	4.06	101	6822	2.855	ug/l	96
10) Methyl Iodide	4.26	142	8332	2.536	ug/l	100
11) Tert butyl alcohol	5.18	59	3050	14.687	ug/l	98
12) 1,1-Dichloroethene	4.04	96	6212	2.505	ug/l	87
13) Acrolein	3.89	56	2052	12.409	ug/l	94
14) Allyl chloride	4.66	41	10973	2.427	ug/l	95
15) Acrylonitrile	5.36	53	9296	13.225	ug/l	99
16) Acetone	4.12	43	11617	17.213	ug/l	96
17) Carbon Disulfide	4.37	76	17638	2.346	ug/l	98
18) Methyl Acetate	4.67	43	8325	3.944	ug/l	96
19) Methyl tert-butyl Ether	5.42	73	10020	2.663	ug/l	99
20) Methylene Chloride	4.91	84	11129	4.180	ug/l	97
21) trans-1,2-Dichloroethene	5.42	96	6564	2.547	ug/l	90
22) Diisopropyl ether	6.31	45	25115	2.582	ug/l #	89
23) Vinyl Acetate	6.26	43	60687	10.082	ug/l	99
24) 1,1-Dichloroethane	6.21	63	13168	2.578	ug/l	99
25) 2-Butanone	7.17	43	13062	12.329	ug/l	99
26) 2,2-Dichloropropane	7.16	77	6603	2.487	ug/l	96
27) cis-1,2-Dichloroethene	7.16	96	7349	2.644	ug/l	97
28) Bromochloromethane	7.51	49	6854	2.951	ug/l	100
29) Tetrahydrofuran	7.53	42	9402	13.535	ug/l	100
30) Chloroform	7.67	83	13215	2.794	ug/l	99
31) Cyclohexane	7.95	56	18489	3.403	ug/l #	76
32) 1,1,1-Trichloroethane	7.87	97	9042	2.513	ug/l	98
36) 1,1-Dichloropropene	8.08	75	10138	2.531	ug/l	99
37) Ethyl Acetate	7.26	43	5919	2.459	ug/l #	96
38) Carbon Tetrachloride	8.07	117	8153	2.401	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW070819\
 Data File : VW011165.D
 Acq On : 08 Jul 2019 17:13
 Operator : SY/VA
 Sample : K3591-01LOD2.5PPB
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2019

Manual Integrations
 APPROVED

MMDadoda
 7/9/2019 4:13:20 PM

Quant Time: Jul 09 07:17:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W070819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 09 07:10:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	12669	2.610	ug/l	92
40) Benzene	8.32	78	29493	2.664	ug/l	98
41) Methacrylonitrile	7.48	41	3851	2.798	ug/l	94
42) 1,2-Dichloroethane	8.40	62	9730	2.710	ug/l	98
43) Isopropyl Acetate	8.43	43	11610	2.555	ug/l	99
44) Trichloroethene	9.09	130	6811	2.557	ug/l	99
45) 1,2-Dichloropropane	9.37	63	7714	2.573	ug/l	97
46) Dibromomethane	9.46	93	3561	2.529	ug/l	98
47) Bromodichloromethane	9.64	83	8948	2.483	ug/l	92
48) Methyl methacrylate	9.44	41	5107	2.336	ug/l	95
49) 1,4-Dioxane	9.45	88	1343	57.138	ug/l	92
51) 4-Methyl-2-Pentanone	10.21	43	28728	12.104	ug/l	98
52) Toluene	10.38	92	17499	2.606	ug/l	99
53) t-1,3-Dichloropropene	10.61	75	8619	2.247	ug/l	95
54) cis-1,3-Dichloropropene	10.07	75	10565	2.340	ug/l	99
55) 1,1,2-Trichloroethane	10.79	97	5139	2.572	ug/l	91
56) Ethyl methacrylate	10.65	69	7039	2.314	ug/l	98
57) 1,3-Dichloropropane	10.93	76	9833	2.603	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.92	63	17060	12.099	ug/l	98
59) 2-Hexanone	10.97	43	19286	11.717	ug/l	99
60) Dibromochloromethane	11.13	129	5036	2.299	ug/l	99
61) 1,2-Dibromoethane	11.23	107	4597	2.429	ug/l	99
64) Tetrachloroethene	10.86	164	6266	2.791	ug/l	96
65) Chlorobenzene	11.66	112	17763	2.626	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.73	131	5671	2.381	ug/l	98
67) Ethyl Benzene	11.73	91	32241	2.490	ug/l	98
68) m/p-Xylenes	11.84	106	23601	5.037	ug/l	99
69) o-Xylene	12.16	106	10983	2.487	ug/l	99
70) Styrene	12.18	104	18165	2.383	ug/l	98
71) Bromoform	12.35	173	2948	2.328	ug/l	# 94
73) Isopropylbenzene	12.46	105	30460	2.529	ug/l	99
74) N-amyl acetate	12.27	43	9457	2.255	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.71	83	6377	2.583	ug/l	97
76) 1,2,3-Trichloropropane	12.77	75	4762m	2.558	ug/l	
77) Bromobenzene	12.75	156	7140	2.642	ug/l	97
78) n-propylbenzene	12.80	91	38155	2.572	ug/l	100
79) 2-Chlorotoluene	12.89	91	22476	2.633	ug/l	99
80) 1,3,5-Trimethylbenzene	12.94	105	25299	2.473	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.51	75	1688m	2.051	ug/l	
82) 4-Chlorotoluene	12.99	91	23184	2.607	ug/l	99
83) tert-Butylbenzene	13.21	119	21657	2.538	ug/l	98
84) 1,2,4-Trimethylbenzene	13.25	105	25875	2.519	ug/l	98
85) sec-Butylbenzene	13.38	105	31087	2.525	ug/l	97
86) p-Isopropyltoluene	13.50	119	27663	2.505	ug/l	98
87) 1,3-Dichlorobenzene	13.50	146	14185	2.728	ug/l	98
88) 1,4-Dichlorobenzene	13.58	146	14527	2.774	ug/l	87
89) n-Butylbenzene	13.83	91	28432	2.581	ug/l	100
90) Hexachloroethane	14.10	117	5001	2.478	ug/l	97
91) 1,2-Dichlorobenzene	13.87	146	12483	2.646	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.49	75	1088	2.485	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW070819\
Data File : VW011165.D
Acq On : 08 Jul 2019 17:13
Operator : SY/VA
Sample : K3591-01LOD2.5PPB
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

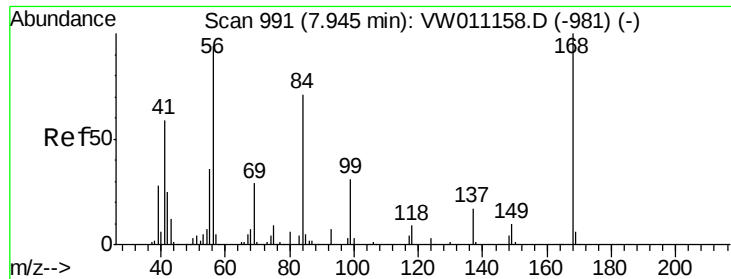
Manual Integrations
APPROVED

MMDadoda
7/9/2019 4:13:20 PM

Quant Time: Jul 09 07:17:07 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W070819S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 09 07:10:47 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	8545	2.630	ug/l	98
94) Hexachlorobutadiene	15.24	225	5820	2.917	ug/l	98
95) Naphthalene	15.37	128	14514	2.331	ug/l	100
96) 1,2,3-Trichlorobenzene	15.57	180	8020	2.797	ug/l	95

(#) = 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: VW011165.D

Acq: 08 Jul 2019 17:13

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion:168 Resp: 223227

Ion Ratio Lower Upper

168 100

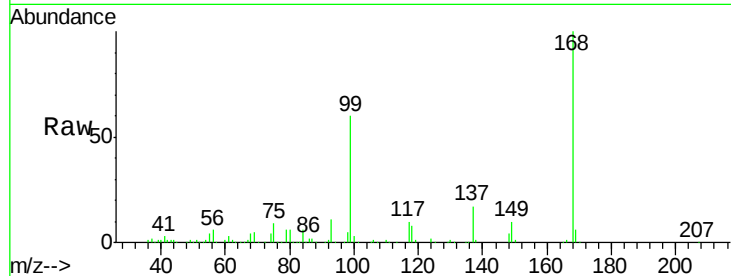
99 60.4 50.1 75.1

Manual Integrations

APPROVED

MMDadoda

7/9/2019 4:13:20 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

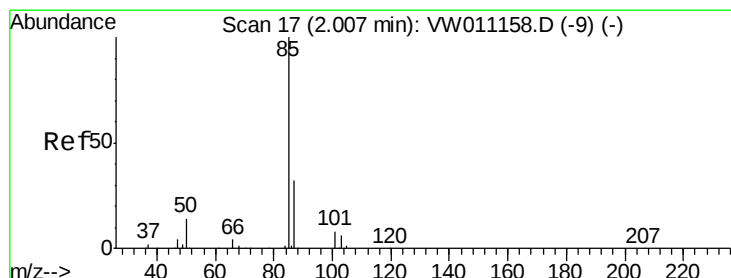
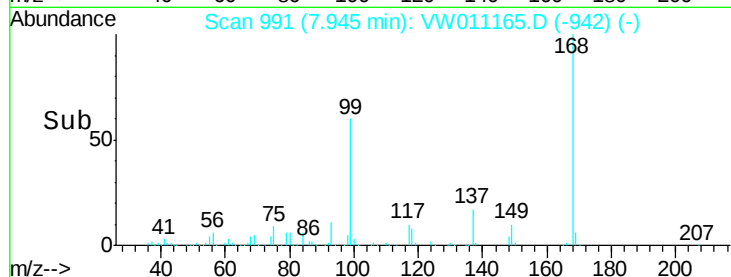
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 2.458 ug/l

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW011165.D

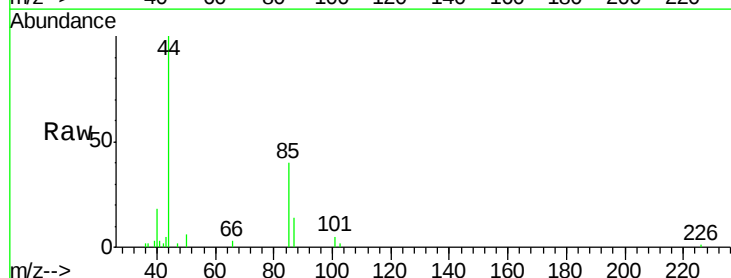
Acq: 08 Jul 2019 17:13

Tgt Ion: 85 Resp: 4093

Ion Ratio Lower Upper

85 100

87 36.1 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

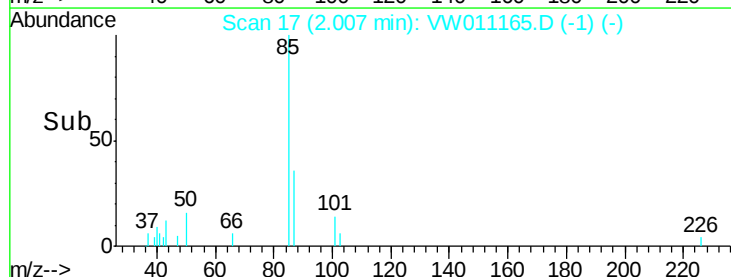
1500

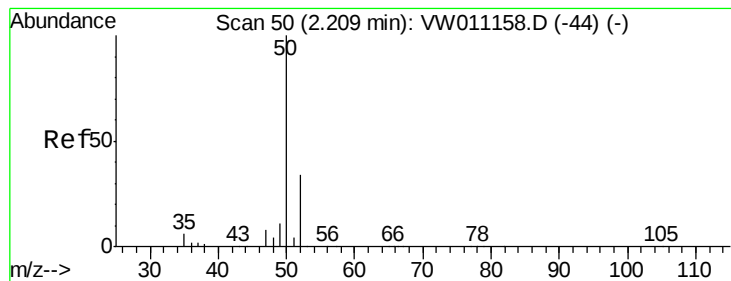
1000

500

0

Time-->





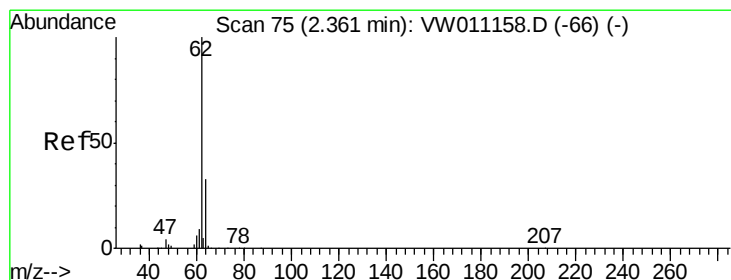
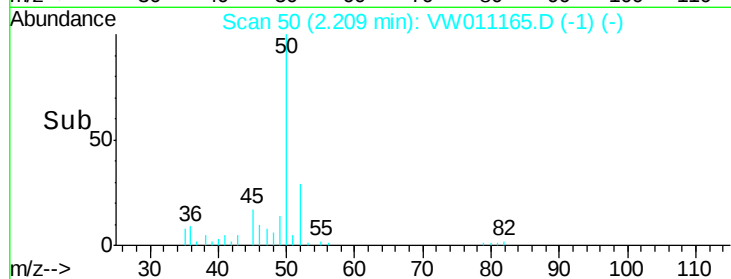
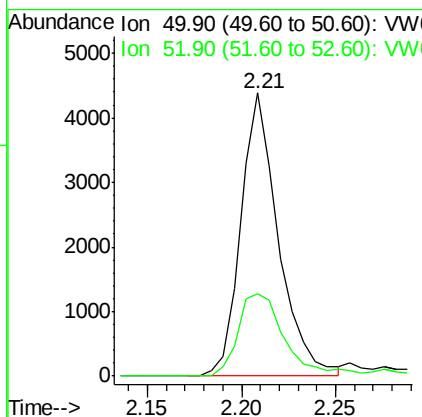
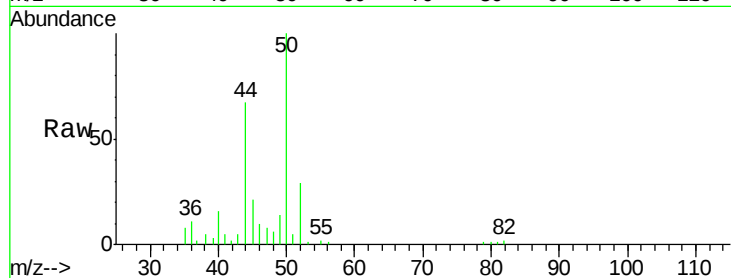
#3
Chloromethane
Concen: 2.821 ug/l
RT: 2.21 min Scan# 50
Delta R.T. 0.00 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
50	100		
52	29.2	26.9	40.3

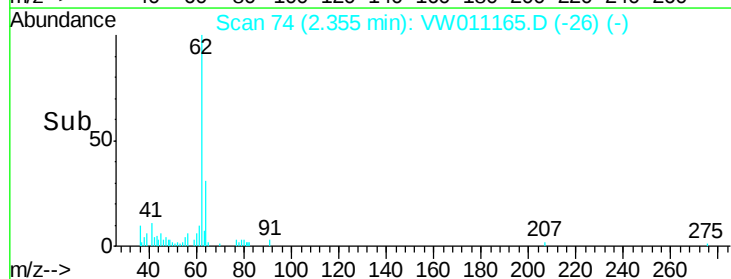
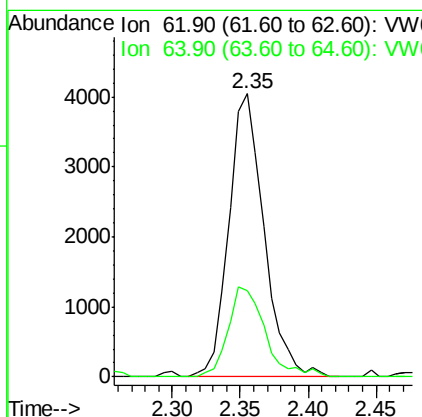
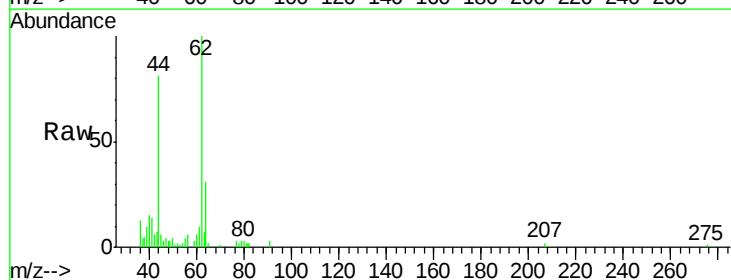
Manual Integrations
APPROVED

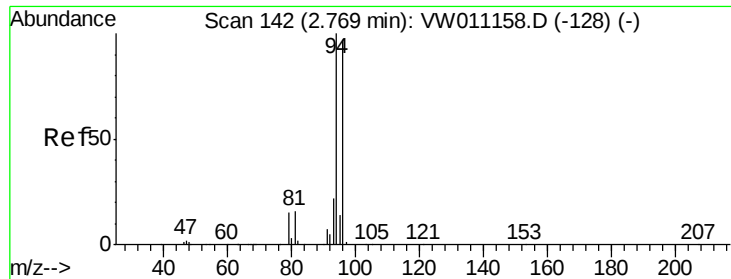
MMDadoda
7/9/2019 4:13:20 PM



#4
Vinyl Chloride
Concen: 2.595 ug/l
RT: 2.35 min Scan# 74
Delta R.T. -0.01 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Tgt Ion	Ratio	Lower	Upper
62	100		
64	30.5	26.6	40.0





#5

Bromomethane

Concen: 3.068 ug/l

RT: 2.77 min Scan# 142

Delta R.T. 0.00 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 94 Resp: 4328

Ion Ratio Lower Upper

94 100

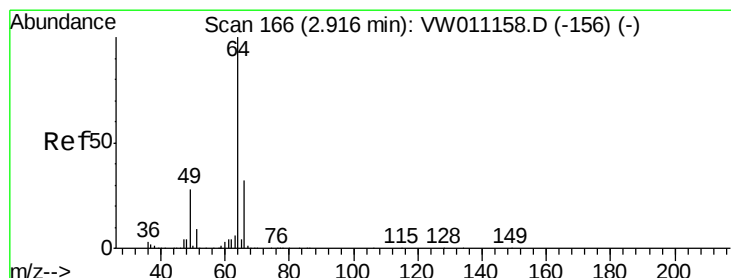
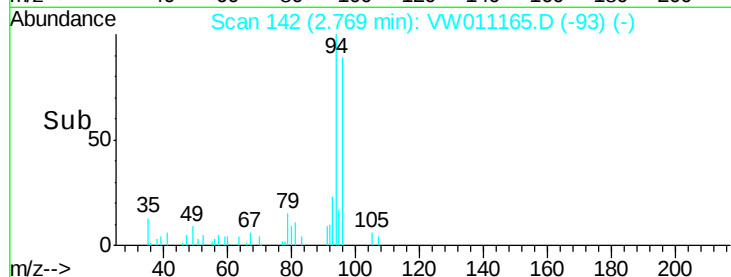
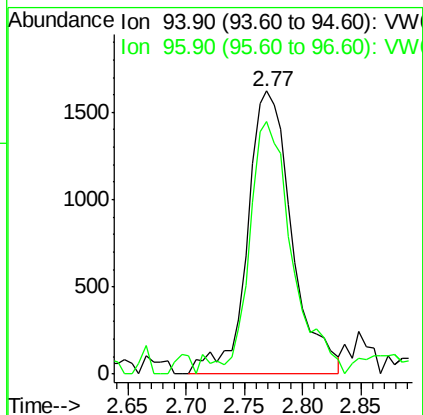
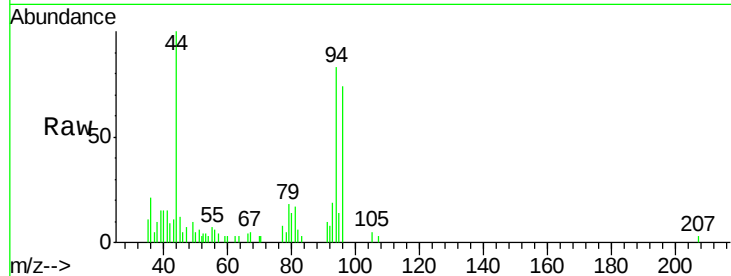
96 84.0 77.4 116.0

Manual Integrations

APPROVED

MMDadoda

7/9/2019 4:13:20 PM



#6

Chloroethane

Concen: 2.430 ug/l

RT: 2.92 min Scan# 167

Delta R.T. 0.01 min

Lab File: VW011165.D

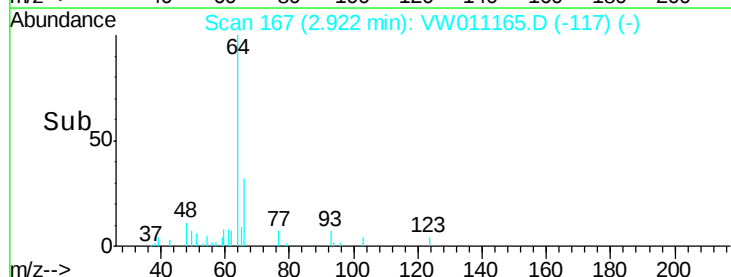
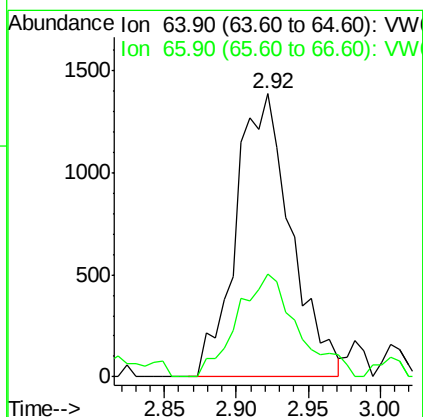
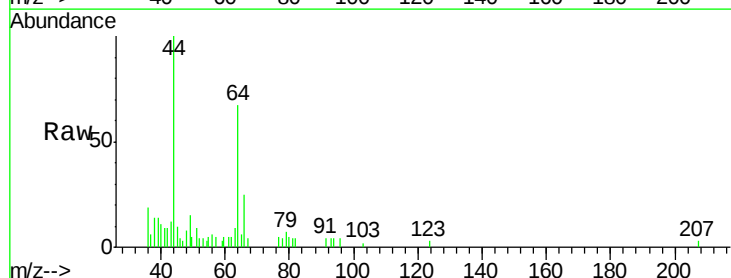
Acq: 08 Jul 2019 17:13

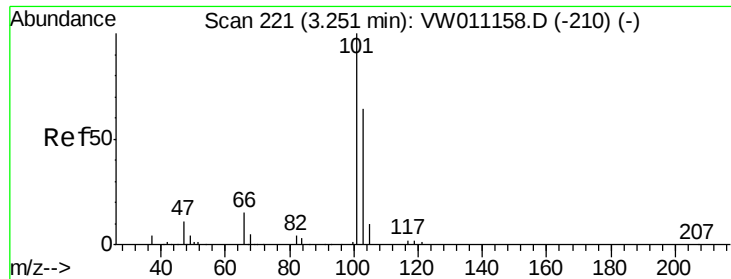
Tgt Ion: 64 Resp: 3675

Ion Ratio Lower Upper

64 100

66 36.6 25.8 38.8





#7

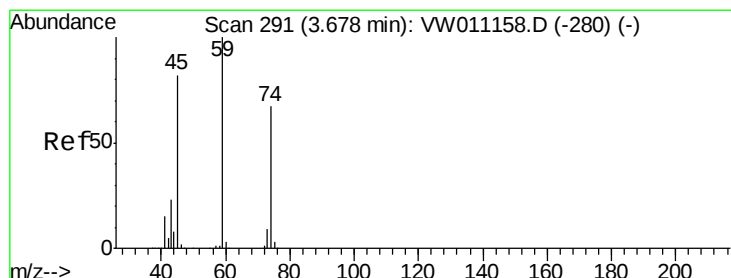
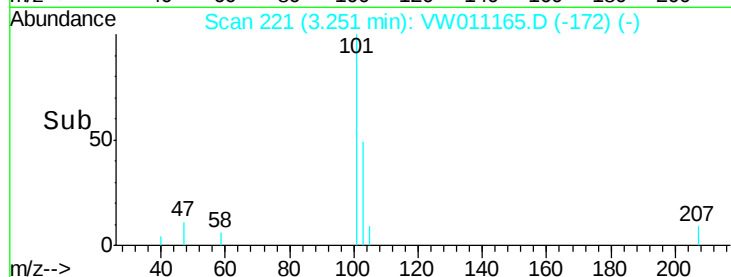
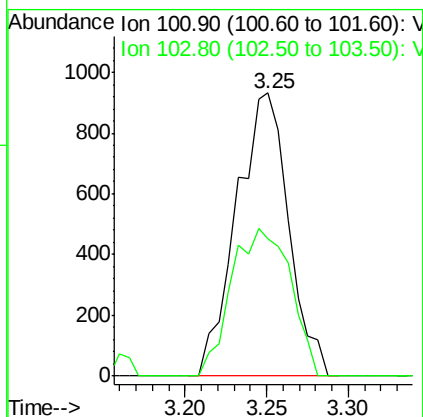
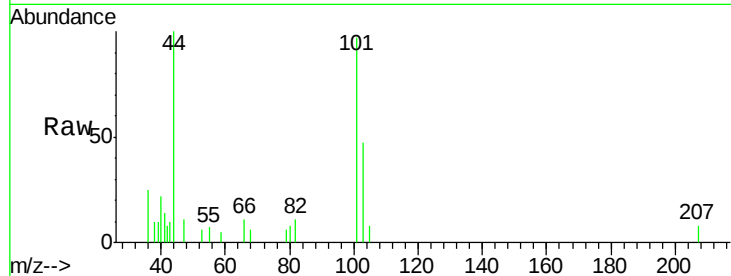
Trichlorofluoromethane
 Concen: 2.078 ug/l
 RT: 3.25 min Scan# 221
 Delta R.T. -0.00 min
 Lab File: VW011165.D
 Acq: 08 Jul 2019 17:13

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
101	100		
103	48.6	51.3	76.9#

Manual Integrations
 APPROVED

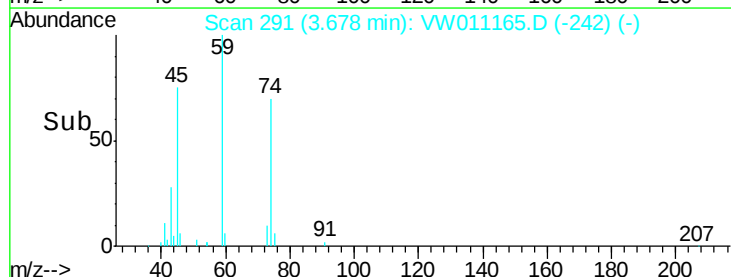
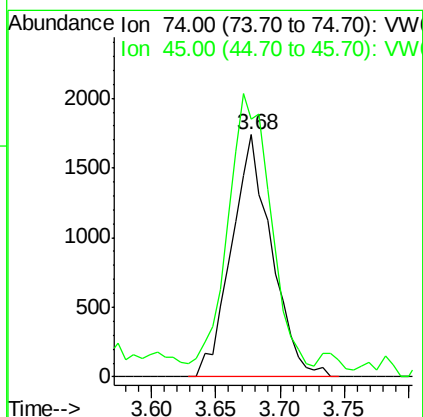
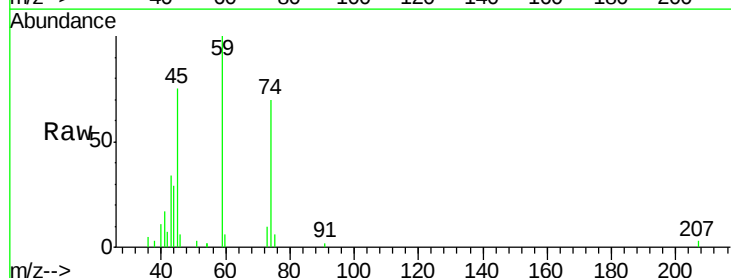
MMDadoda
 7/9/2019 4:13:20 PM

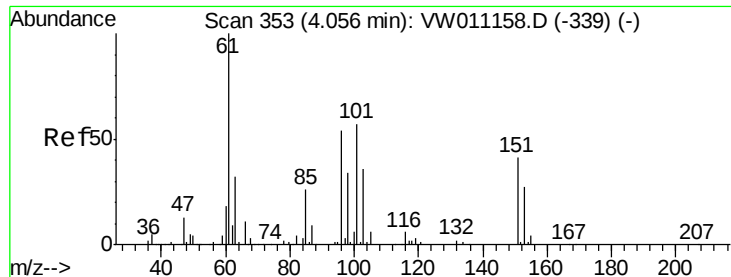


#8

Diethyl Ether
 Concen: 2.720 ug/l
 RT: 3.68 min Scan# 291
 Delta R.T. -0.00 min
 Lab File: VW011165.D
 Acq: 08 Jul 2019 17:13

Tgt Ion	Ratio	Lower	Upper
74	100		
45	118.8	59.9	179.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.855 ug/l

RT: 4.06 min Scan# 353

Delta R.T. -0.00 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

Instrument :

MSVOA_W

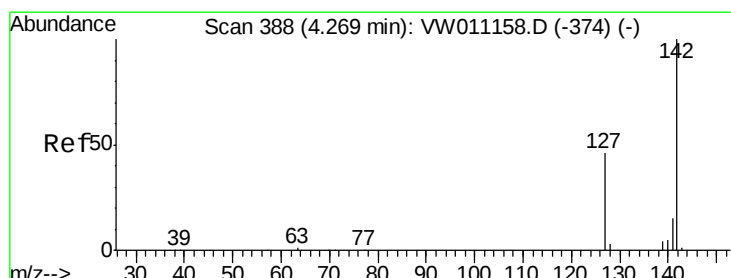
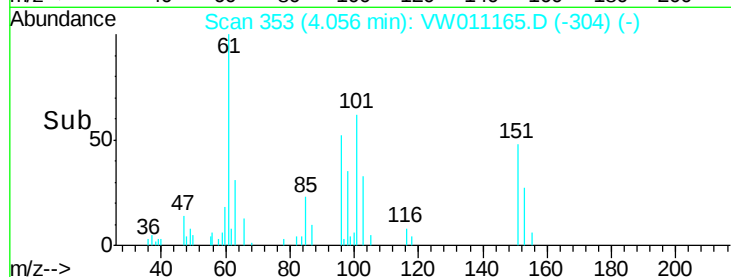
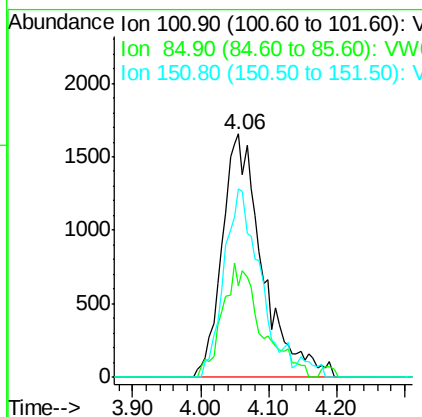
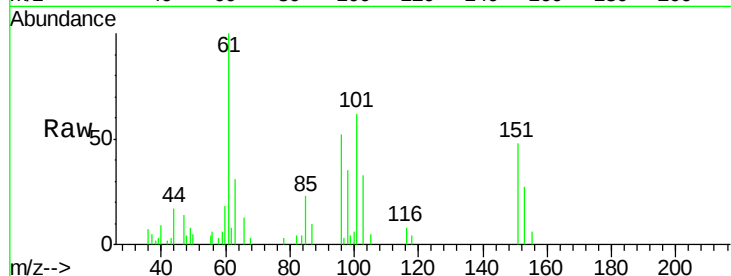
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion:	101	Resp:	6822
Ion Ratio	Lower	Upper	
101	100		
85	45.0	36.5	54.7
151	68.9	59.1	88.7

Manual Integrations
APPROVED

MMDadoda
7/9/2019 4:13:20 PM



#10

Methyl Iodide

Concen: 2.536 ug/l

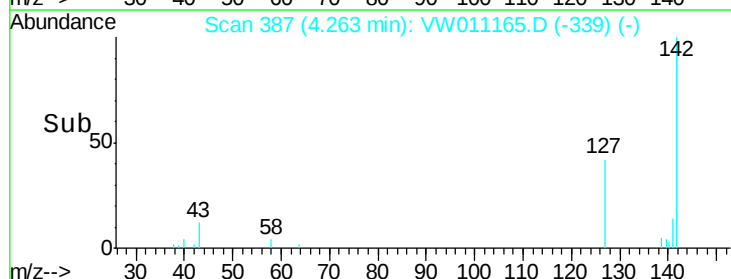
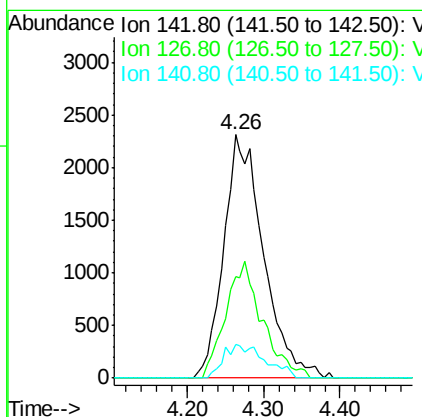
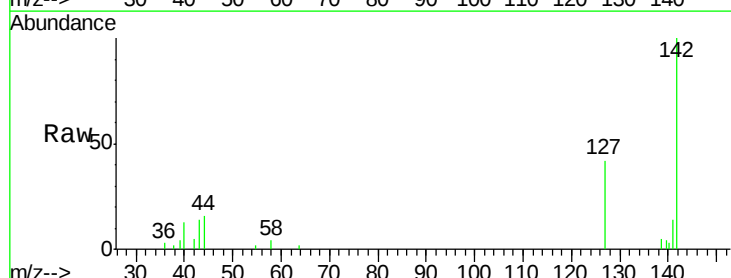
RT: 4.26 min Scan# 387

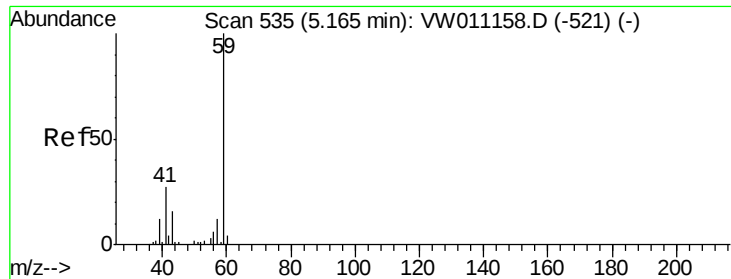
Delta R.T. -0.01 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

Tgt Ion:	142	Resp:	8332
Ion Ratio	Lower	Upper	
142	100		
127	44.4	35.7	53.5
141	14.4	11.5	17.3





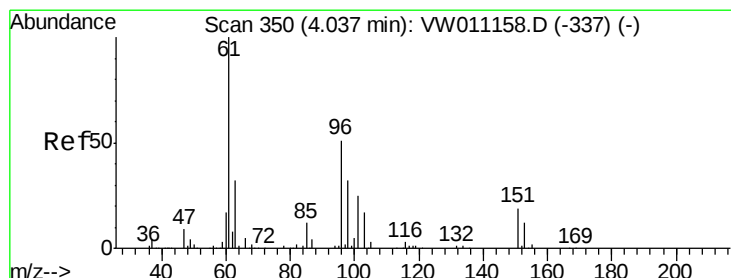
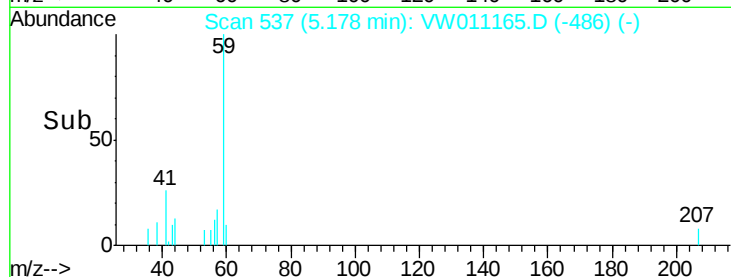
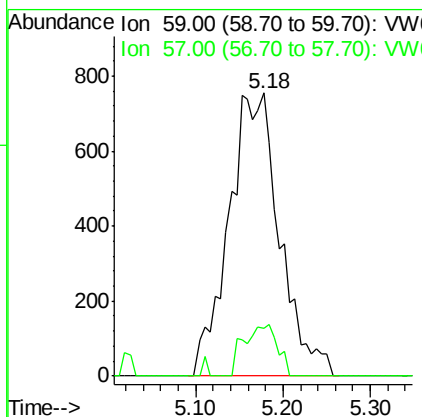
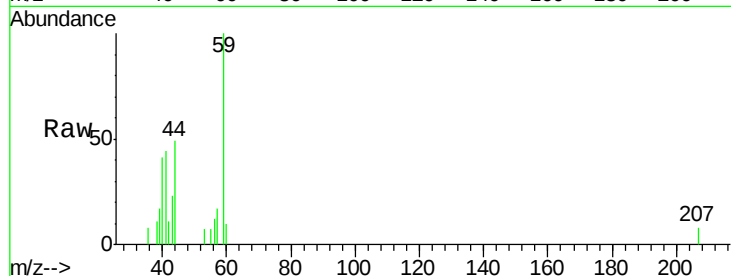
#11
Tert butyl alcohol
Concen: 14.687 ug/l
RT: 5.18 min Scan# 537
Delta R.T. 0.01 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 59 Resp: 3050
Ion Ratio Lower Upper
59 100
57 12.1 9.0 13.6

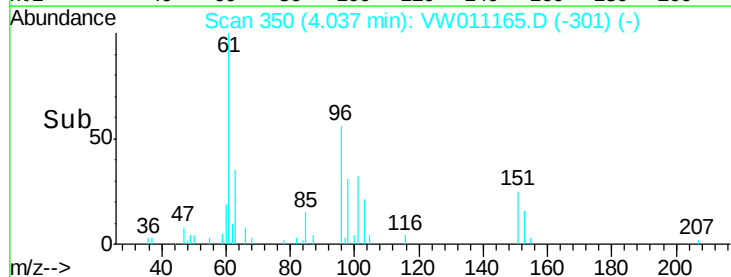
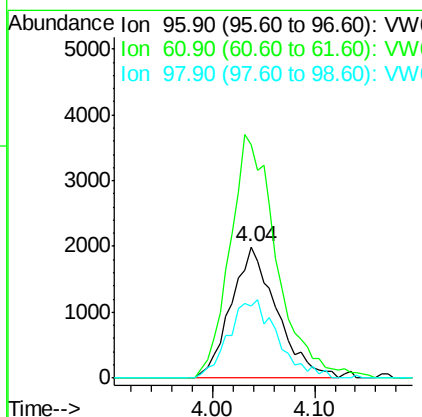
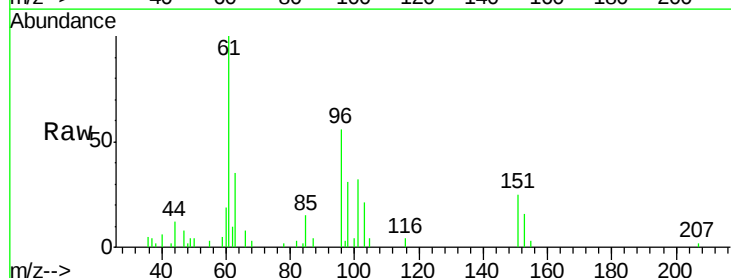
Manual Integrations
APPROVED

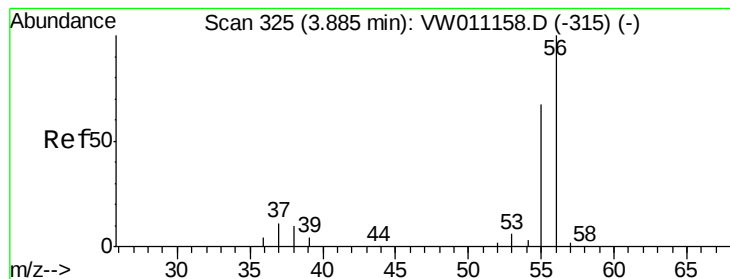
MMDadoda
7/9/2019 4:13:20 PM



#12
1,1-Dichloroethene
Concen: 2.505 ug/l
RT: 4.04 min Scan# 350
Delta R.T. 0.00 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Tgt Ion: 96 Resp: 6212
Ion Ratio Lower Upper
96 100
61 177.7 157.7 236.5
98 54.4 50.9 76.3





#13

Acrolein

Concen: 12.409 ug/l

RT: 3.89 min Scan# 325

Delta R.T. -0.00 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 56 Resp: 2052

Ion Ratio Lower Upper

56 100

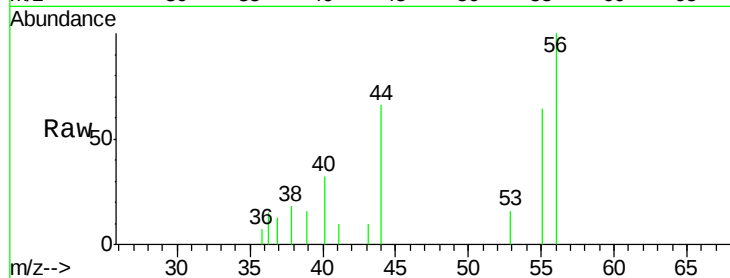
55 75.1 56.4 84.6

Manual Integrations

APPROVED

MMDadoda

7/9/2019 4:13:20 PM



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW

3.89

600

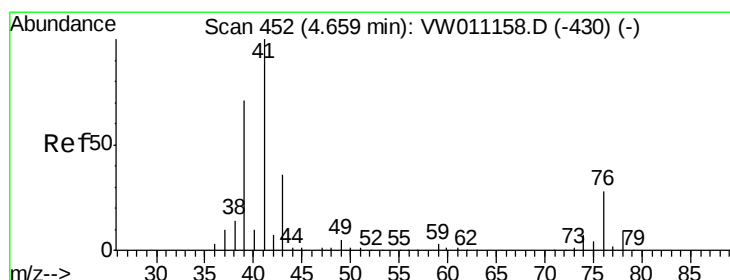
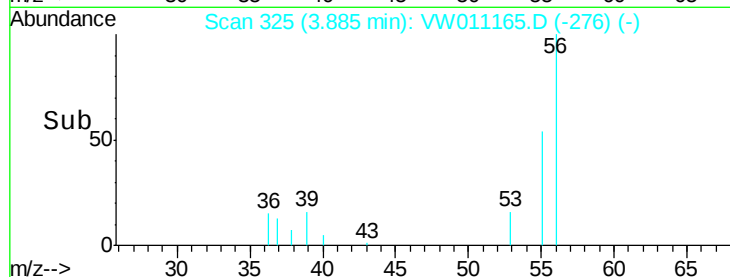
400

200

0

3.80 3.85 3.90 3.95

Time-->



#14

Allyl chloride

Concen: 2.427 ug/l

RT: 4.66 min Scan# 452

Delta R.T. -0.00 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

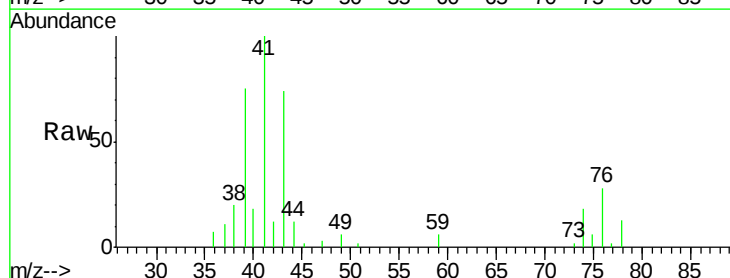
Tgt Ion: 41 Resp: 10973

Ion Ratio Lower Upper

41 100

39 73.2 55.1 82.7

76 26.6 22.5 33.7



Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 75.90 (75.60 to 76.60): VW

4.66

4000

3000

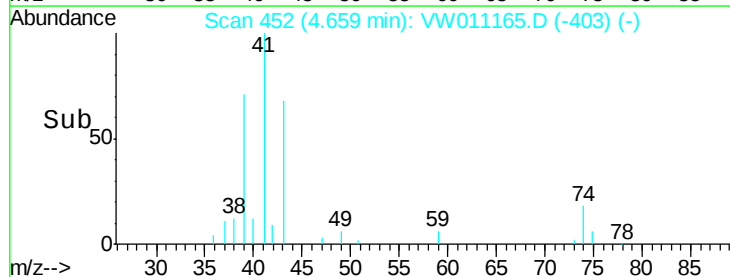
2000

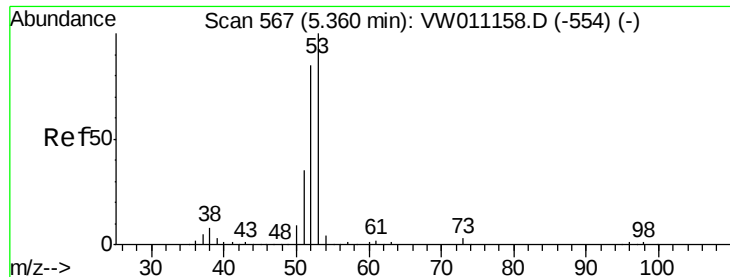
1000

0

4.50 4.60 4.70 4.80

Time-->





#15

Acrylonitrile

Concen: 13.225 ug/l

RT: 5.36 min Scan# 567

Delta R.T. 0.00 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

Instrument :

MSVOA_W

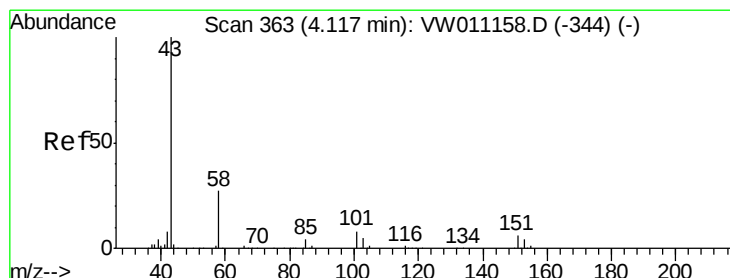
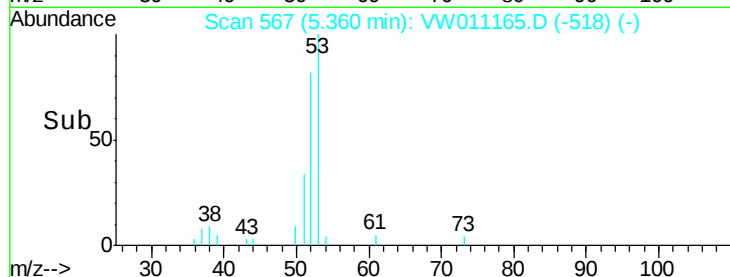
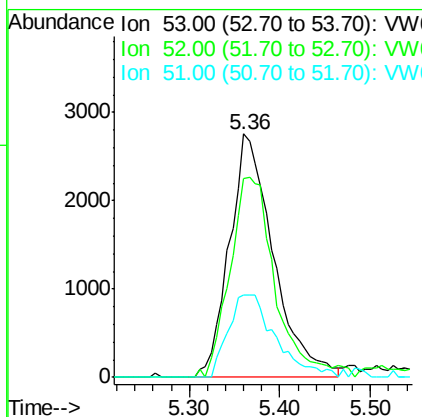
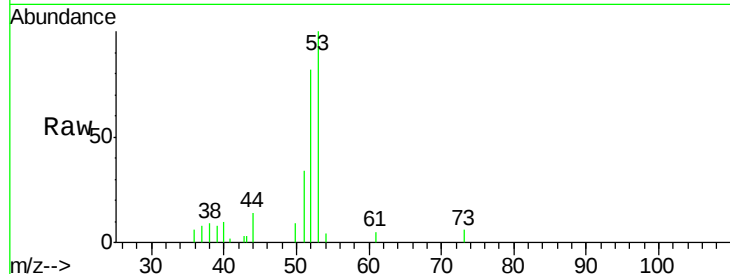
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion:	53	Resp:	9296
Ion	Ratio	Lower	Upper
53	100		
52	84.6	66.2	99.4
51	36.3	29.1	43.7

Manual Integrations
APPROVED

MMDadoda
7/9/2019 4:13:20 PM



#16

Acetone

Concen: 17.213 ug/l

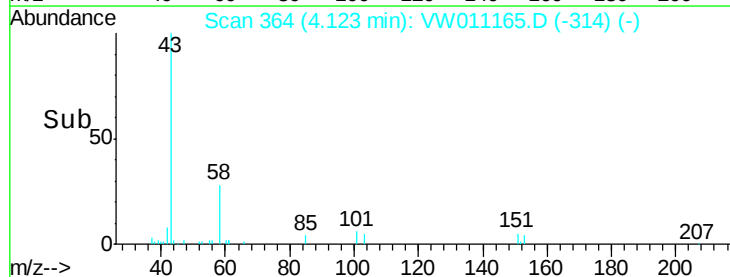
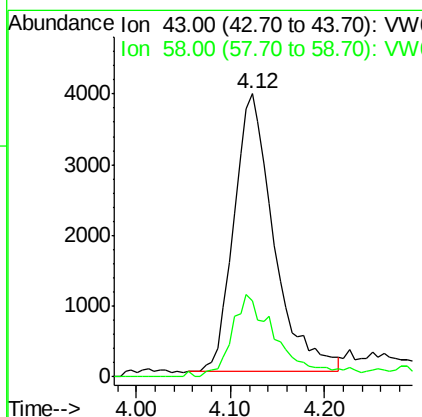
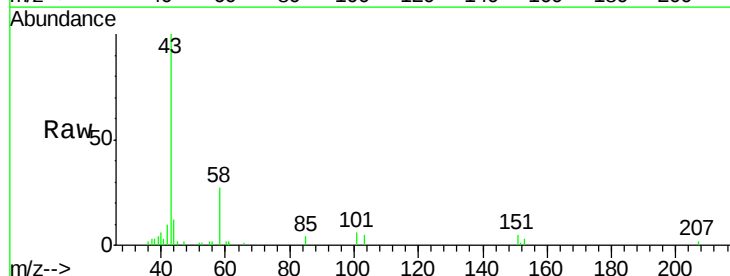
RT: 4.12 min Scan# 364

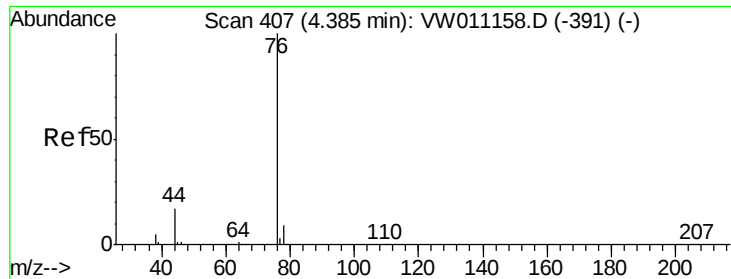
Delta R.T. 0.01 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

Tgt Ion:	43	Resp:	11617
Ion	Ratio	Lower	Upper
43	100		
58	25.4	21.8	32.6





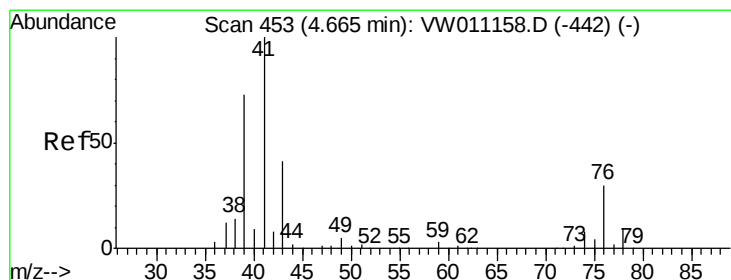
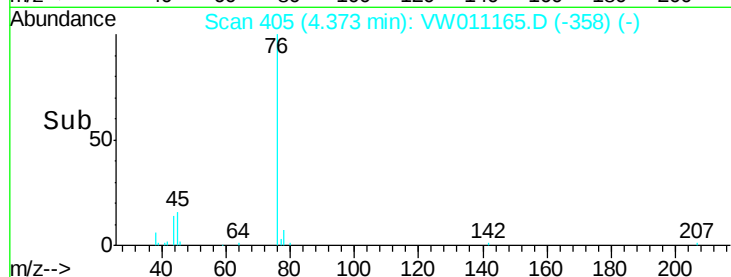
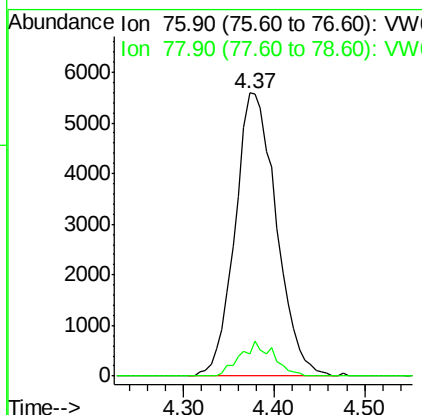
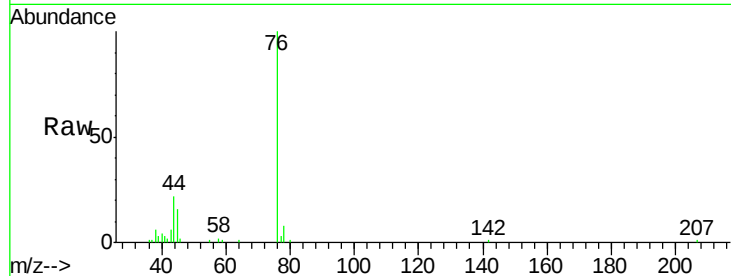
#17
Carbon Disulfide
Concen: 2.346 ug/l
RT: 4.37 min Scan# 405
Delta R.T. -0.01 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.1	7.1	10.7

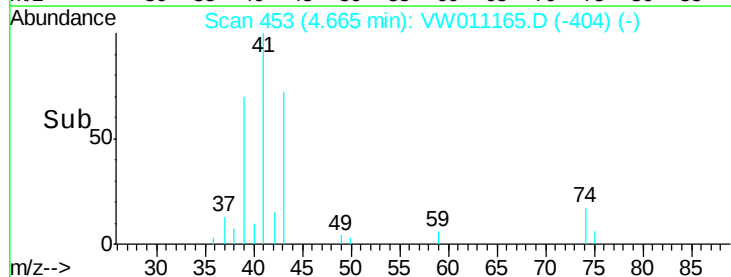
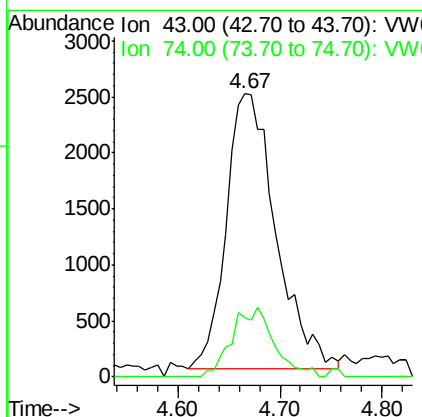
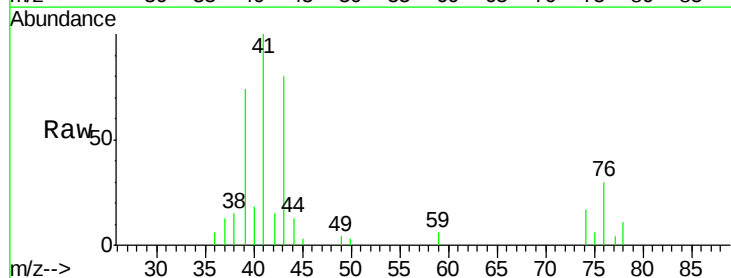
Manual Integrations
APPROVED

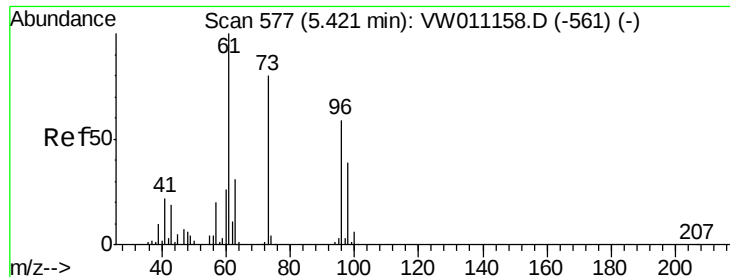
MMDadoda
7/9/2019 4:13:20 PM



#18
Methyl Acetate
Concen: 3.944 ug/l
RT: 4.67 min Scan# 453
Delta R.T. 0.00 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Tgt Ion	Ratio	Lower	Upper
43	100		
74	21.4	15.7	23.5





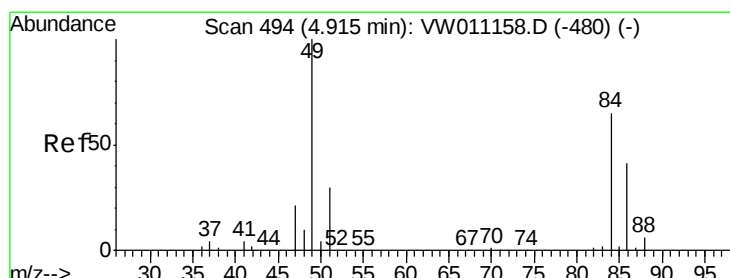
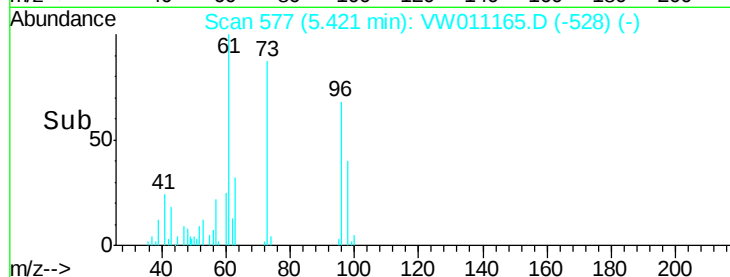
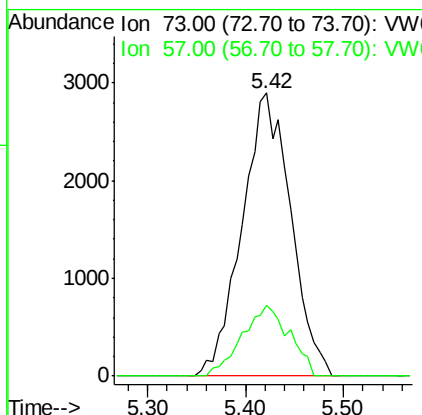
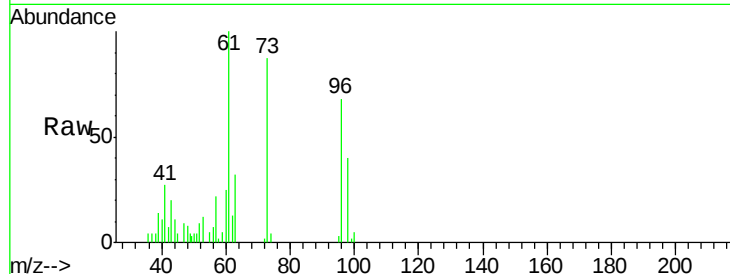
#19
Methyl tert-butyl Ether
Concen: 2.663 ug/l
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 73 Resp: 10020
Ion Ratio Lower Upper
73 100
57 25.1 19.7 29.5

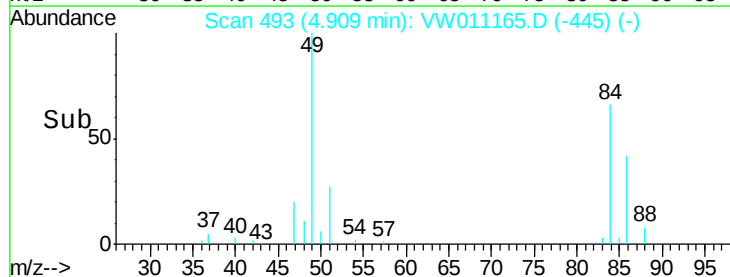
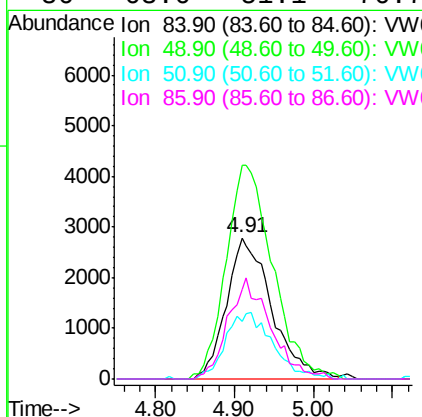
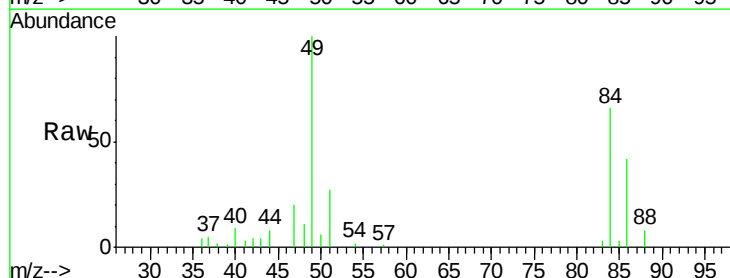
Manual Integrations
APPROVED

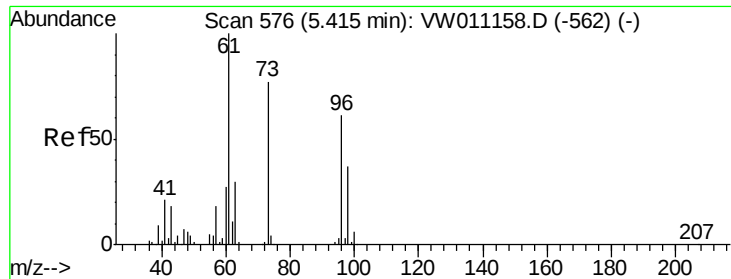
MMDadoda
7/9/2019 4:13:20 PM



#20
Methylene Chloride
Concen: 4.180 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Tgt Ion: 84 Resp: 11129
Ion Ratio Lower Upper
84 100
49 151.1 123.8 185.6
51 40.7 37.4 56.2
86 63.6 51.1 76.7





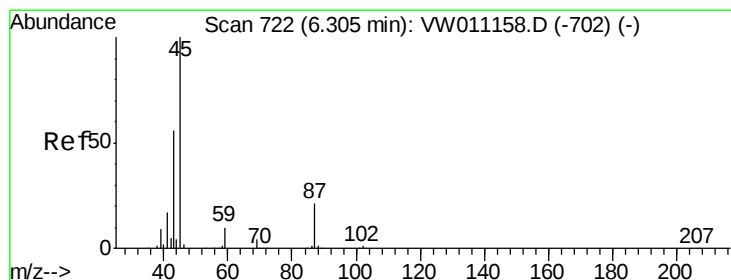
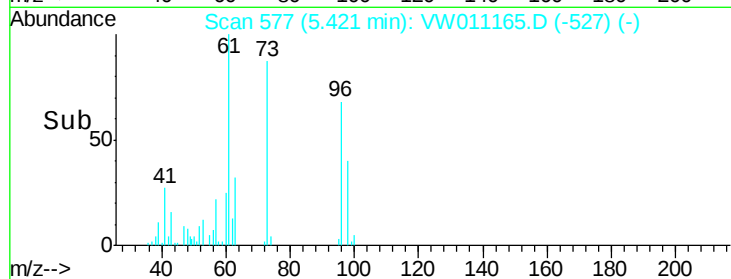
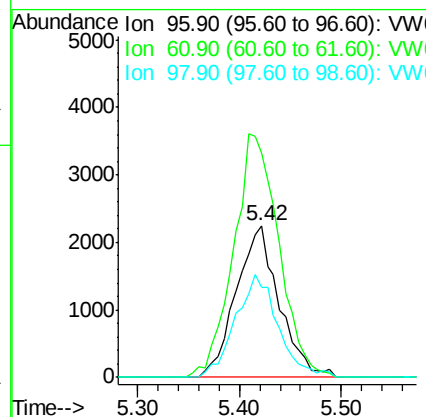
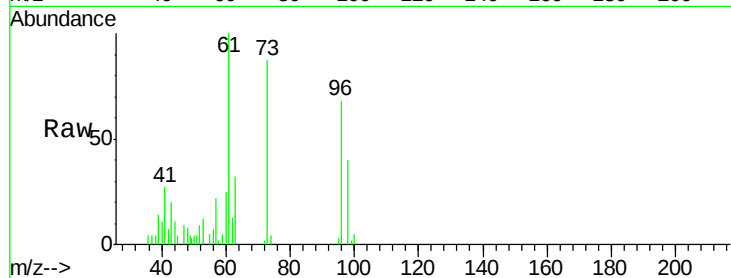
#21
trans-1,2-Dichloroethene
Concen: 2.547 ug/l
RT: 5.42 min Scan# 577
Delta R.T. 0.01 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	147.7	132.2	198.2
98	59.0	49.4	74.0

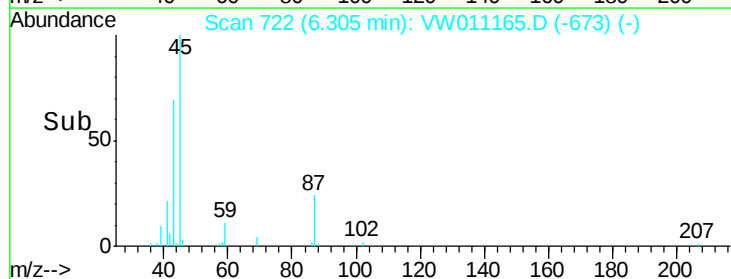
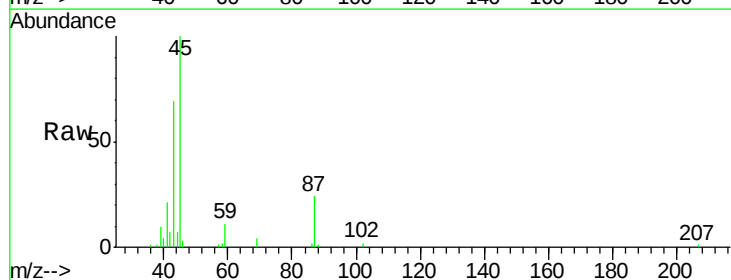
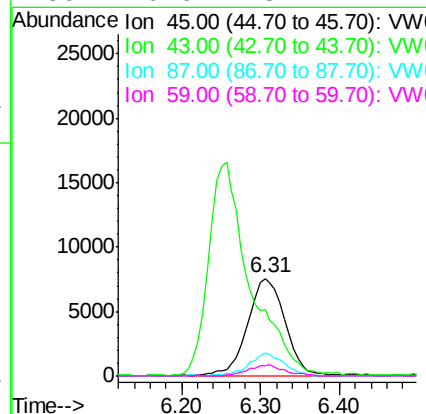
Manual Integrations
APPROVED

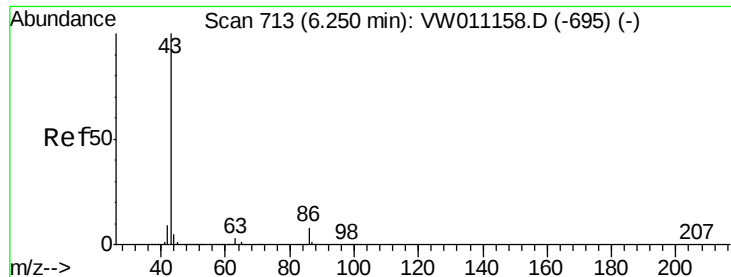
MMDadoda
7/9/2019 4:13:20 PM



#22
Diisopropyl ether
Concen: 2.582 ug/l
RT: 6.31 min Scan# 722
Delta R.T. 0.00 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Tgt Ion	Ratio	Lower	Upper
45	100		
43	67.1	44.6	66.8#
87	24.2	17.3	25.9
59	10.6	8.2	12.2





#23

Vinyl Acetate

Concen: 10.082 ug/l

RT: 6.26 min Scan# 714

Delta R.T. 0.01 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 43 Resp: 60687

Ion Ratio Lower Upper

43 100

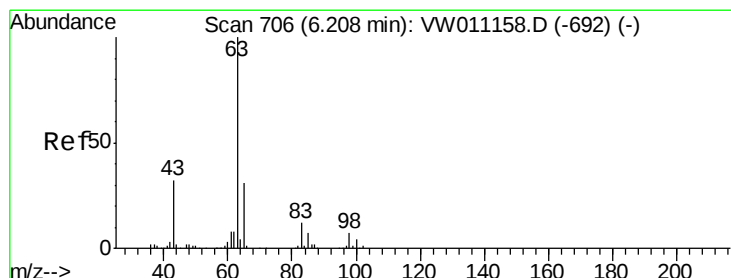
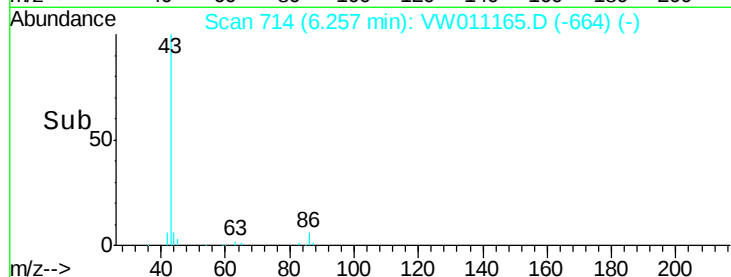
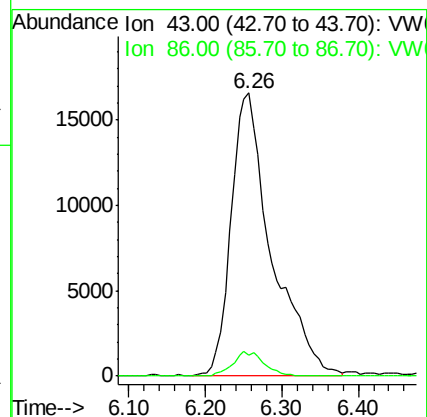
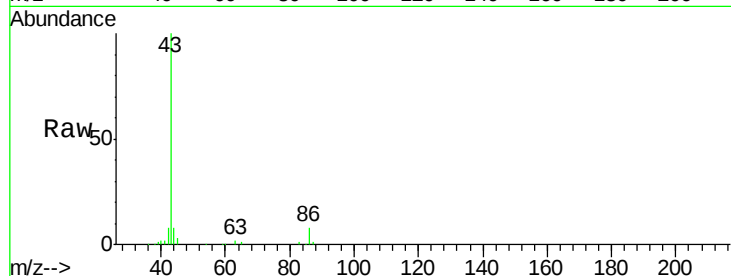
86 7.6 6.5 9.7

Manual Integrations

APPROVED

MMDadoda

7/9/2019 4:13:20 PM



#24

1,1-Dichloroethane

Concen: 2.578 ug/l

RT: 6.21 min Scan# 706

Delta R.T. 0.00 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

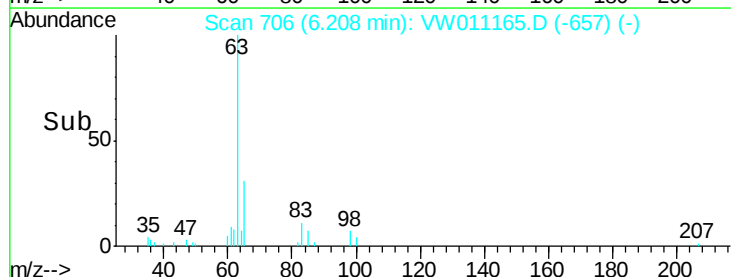
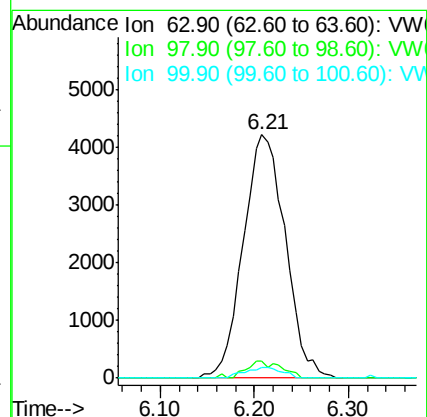
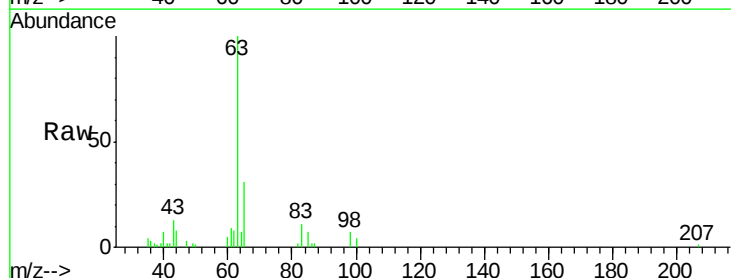
Tgt Ion: 63 Resp: 13168

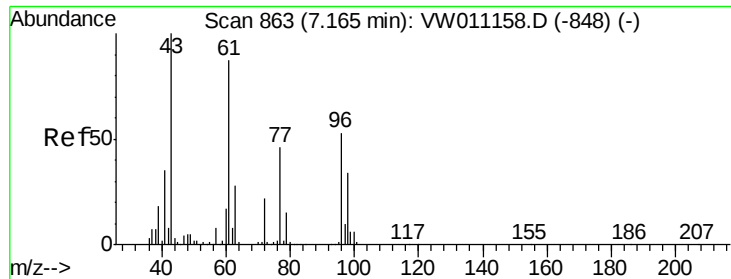
Ion Ratio Lower Upper

63 100

98 7.2 3.3 9.9

100 4.4 2.1 6.2





#25

2-Butanone

Concen: 12.329 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 43 Resp: 13062

Ion Ratio Lower Upper

43 100

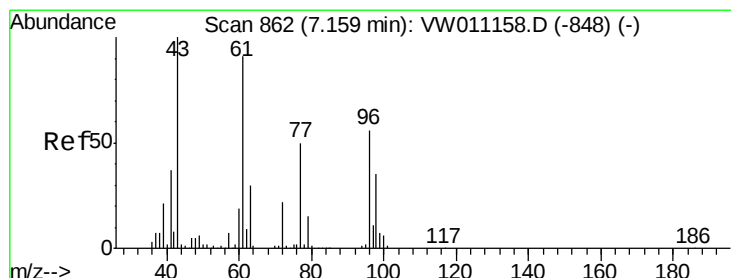
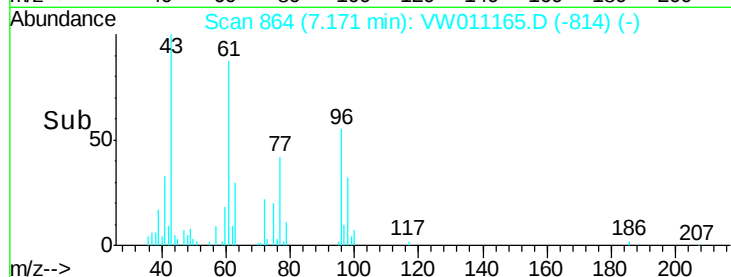
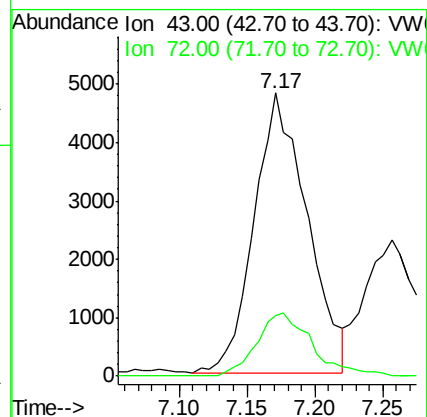
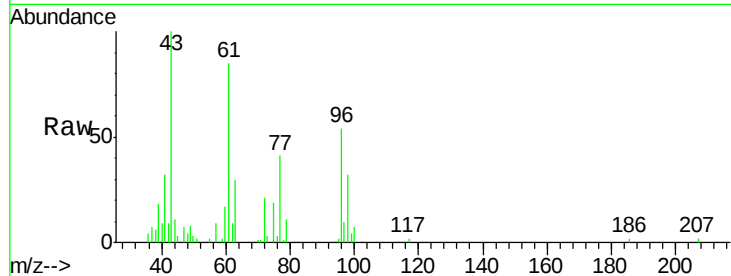
72 21.7 17.6 26.4

Manual Integrations

APPROVED

MMDadoda

7/9/2019 4:13:20 PM



#26

2,2-Dichloropropane

Concen: 2.487 ug/l

RT: 7.16 min Scan# 863

Delta R.T. 0.01 min

Lab File: VW011165.D

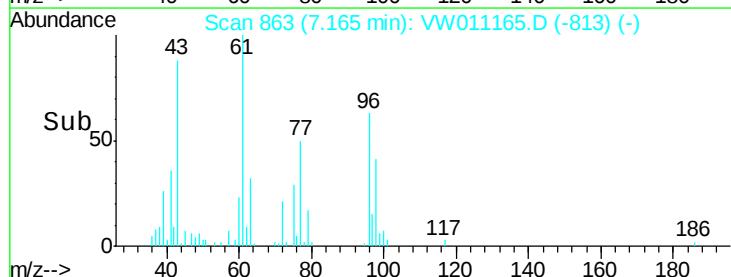
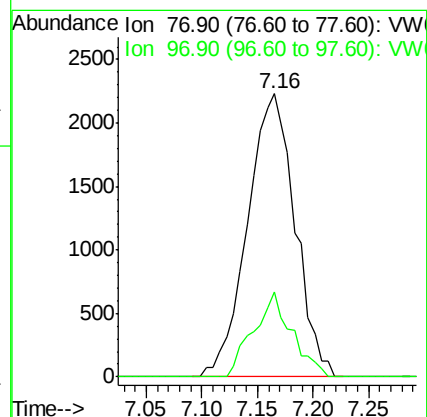
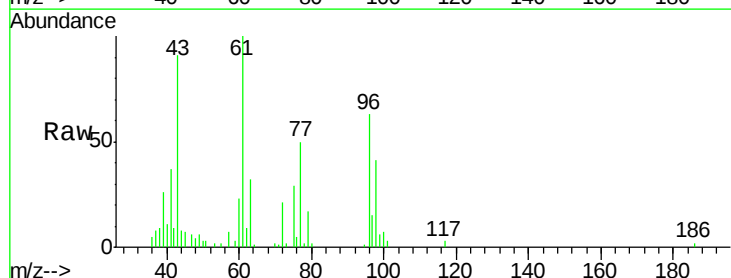
Acq: 08 Jul 2019 17:13

Tgt Ion: 77 Resp: 6603

Ion Ratio Lower Upper

77 100

97 24.1 11.2 33.5





#27

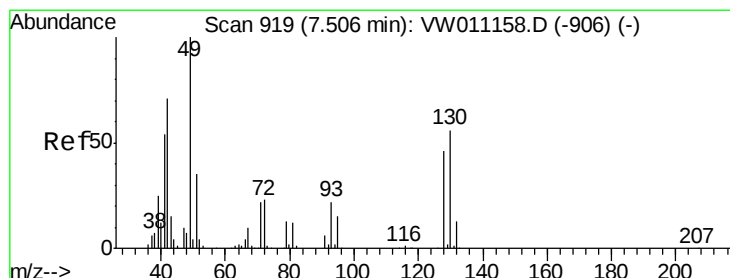
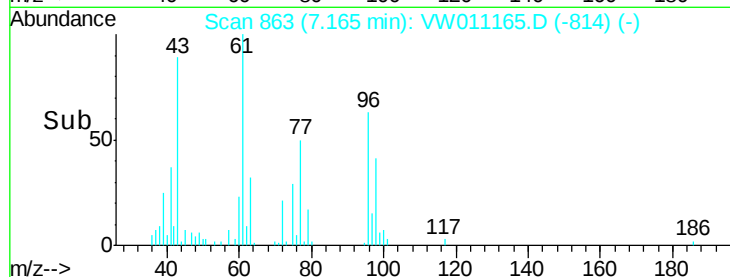
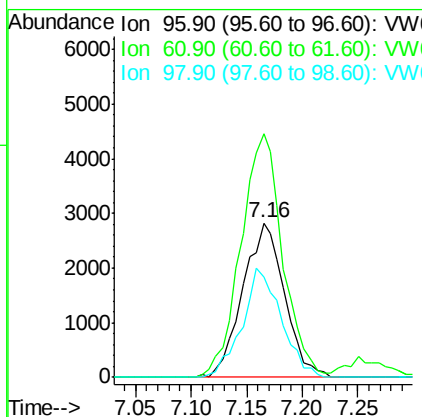
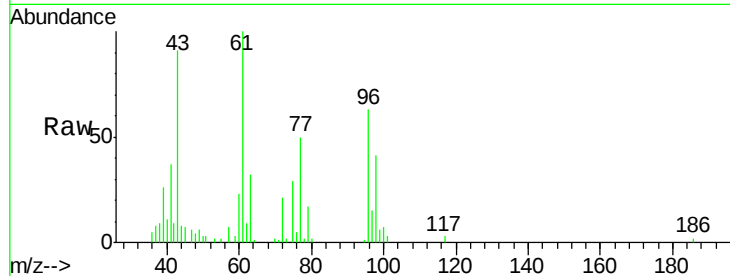
cis-1,2-Dichloroethene
Concen: 2.644 ug/l
RT: 7.16 min Scan# 863
Delta R.T. -0.00 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	157.8	0.0	325.6
98	66.1	0.0	128.2

Manual Integrations
APPROVED

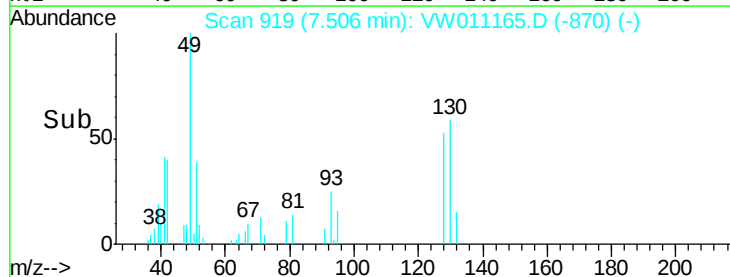
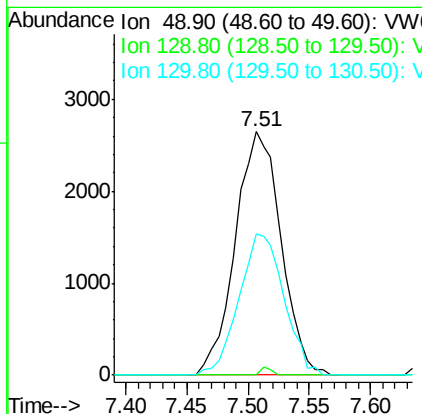
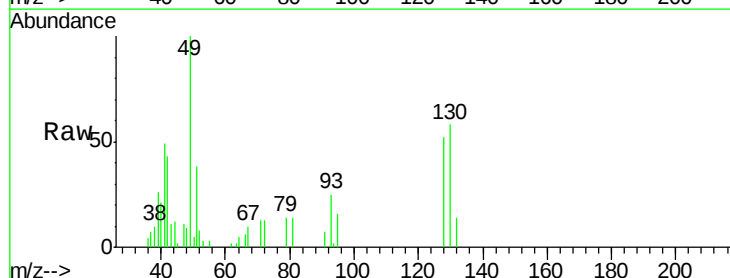
MMDadoda
7/9/2019 4:13:20 PM

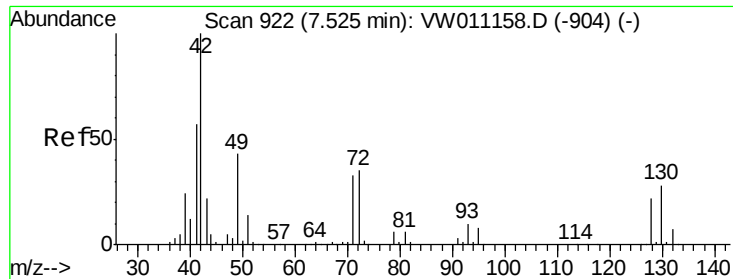


#28

Bromochloromethane
Concen: 2.951 ug/l
RT: 7.51 min Scan# 919
Delta R.T. -0.00 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.8	0.0	1.4
130	57.2	45.8	68.8





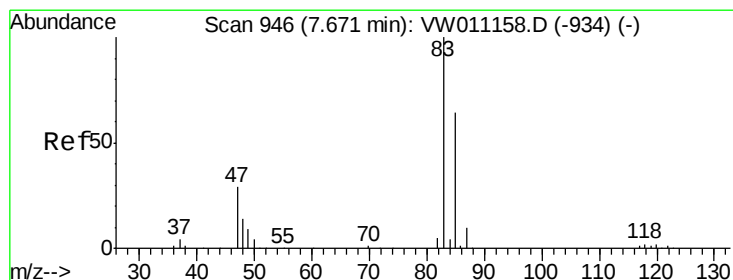
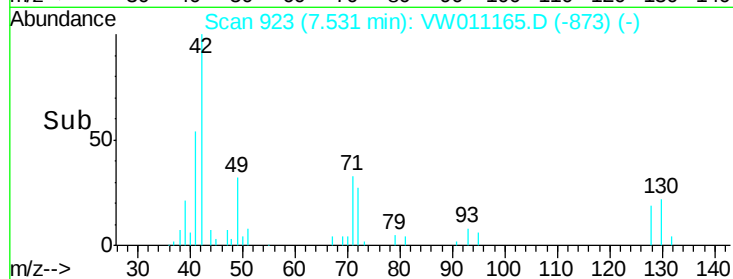
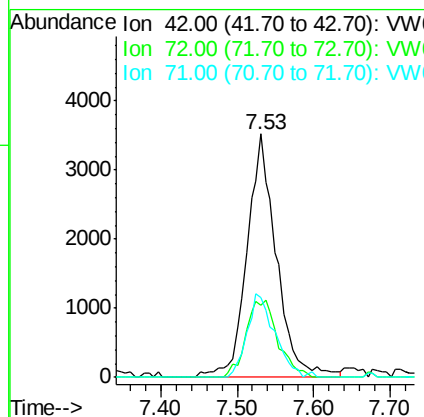
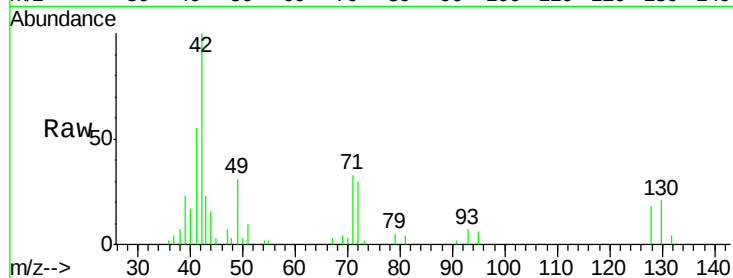
#29
Tetrahydrofuran
Concen: 13.535 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.01 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
42	100		
72	34.2	27.4	41.2
71	32.5	25.9	38.9

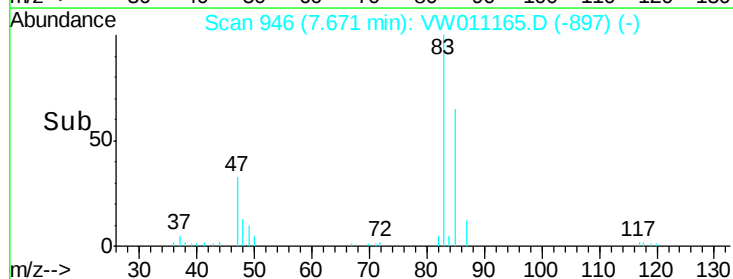
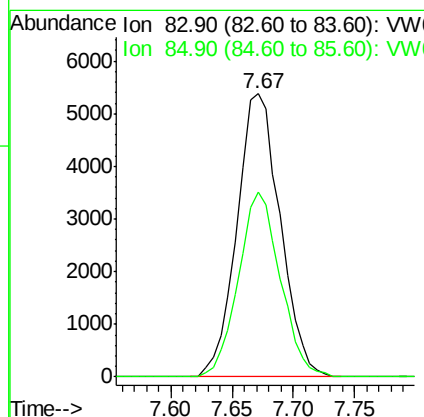
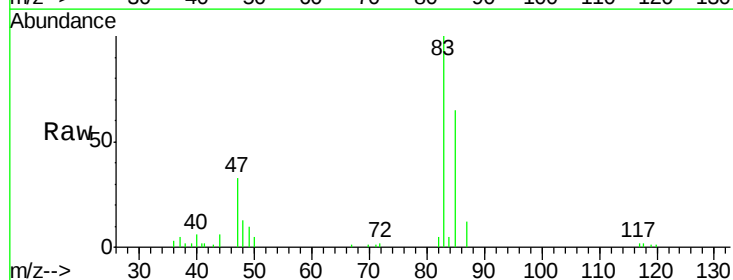
Manual Integrations
APPROVED

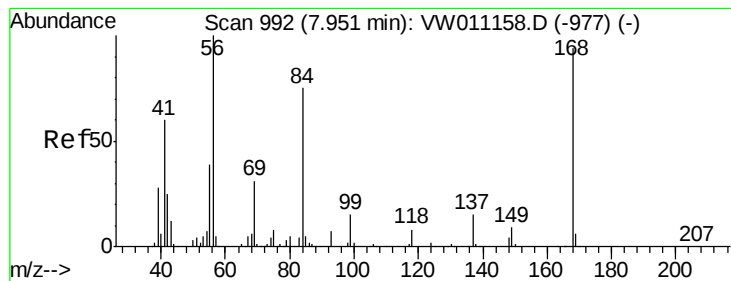
MMDadoda
7/9/2019 4:13:20 PM



#30
Chloroform
Concen: 2.794 ug/l
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.4	51.4	77.2





#31

Cvclohexane

Concen: 3.403 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

Instrument :

MSVOA_W

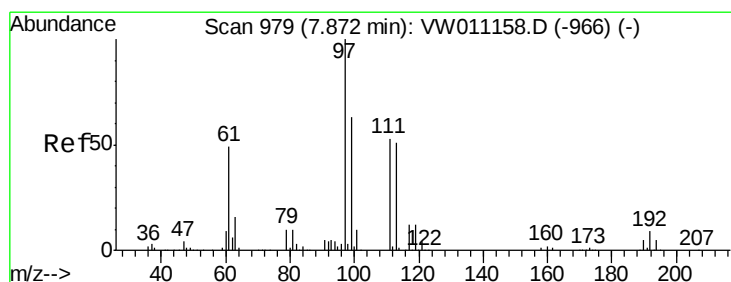
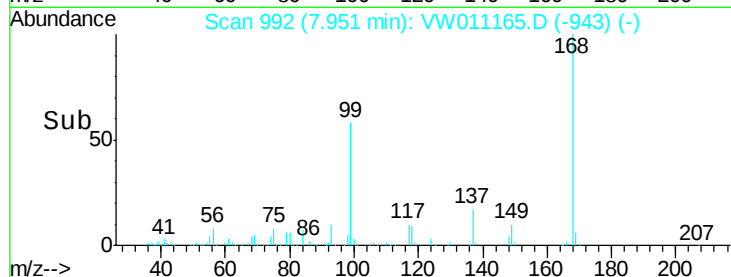
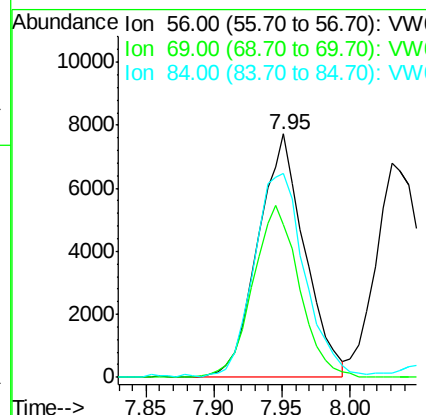
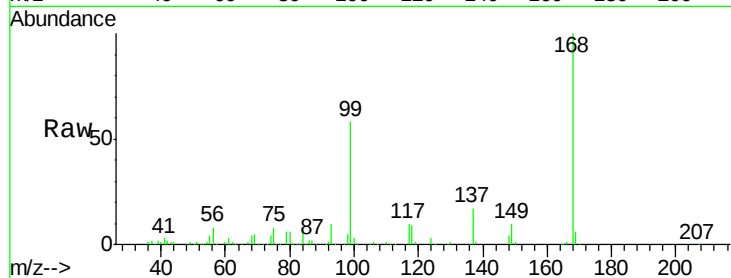
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion:	56	Resp:	18489
Ion Ratio		Lower	Upper
56	100		
69	62.9	24.6	36.8#
84	82.8	60.1	90.1

Manual Integrations
APPROVED

MMDadoda
7/9/2019 4:13:20 PM



#32

1,1,1-Trichloroethane

Concen: 2.513 ug/l

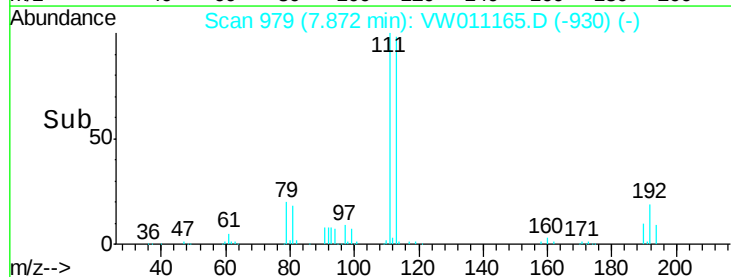
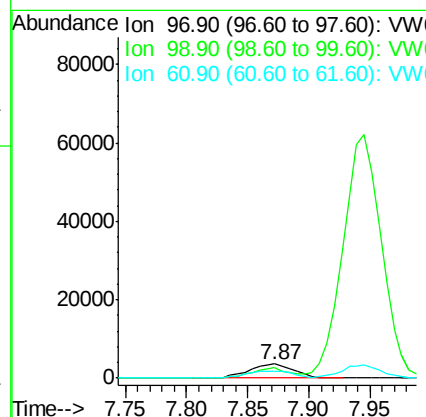
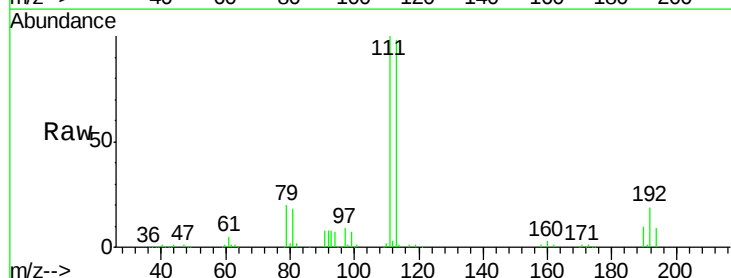
RT: 7.87 min Scan# 979

Delta R.T. 0.00 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

Tgt Ion:	97	Resp:	9042
Ion Ratio		Lower	Upper
97	100		
99	64.4	51.0	76.4
61	52.4	40.4	60.6





#33

1,2-Dichloroethane-d4

Concen: 50.504 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 65 Resp: 141661

Ion Ratio Lower Upper

65 100

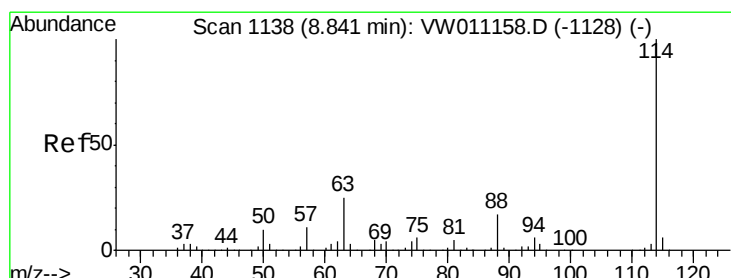
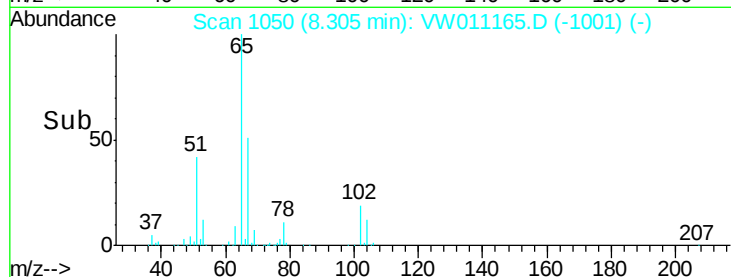
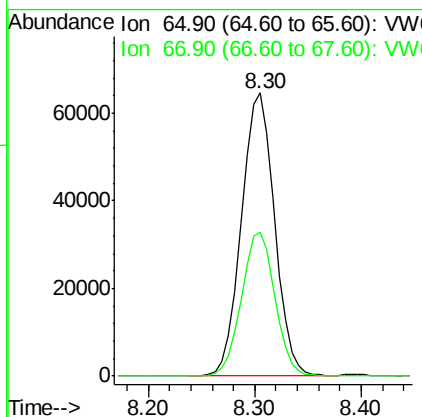
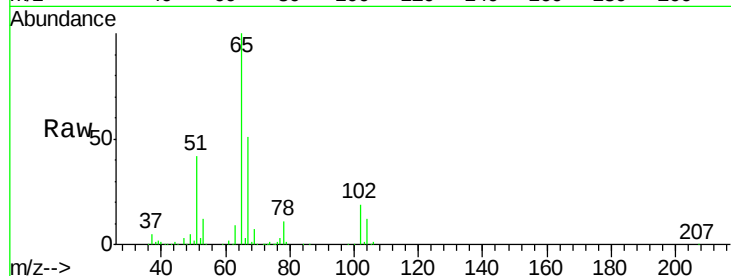
67 51.2 0.0 104.4

Manual Integrations

APPROVED

MMDadoda

7/9/2019 4:13:20 PM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

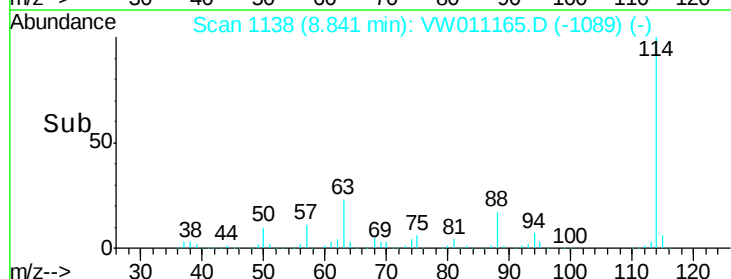
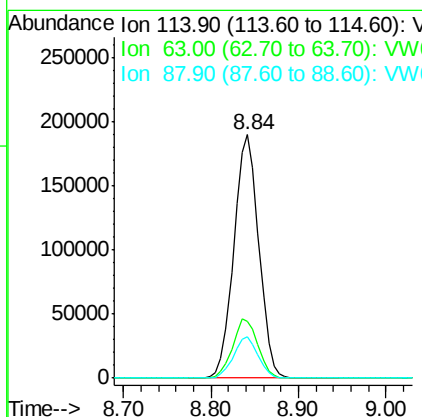
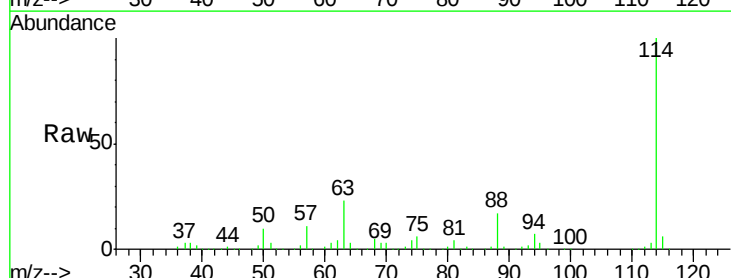
Tgt Ion: 114 Resp: 376142

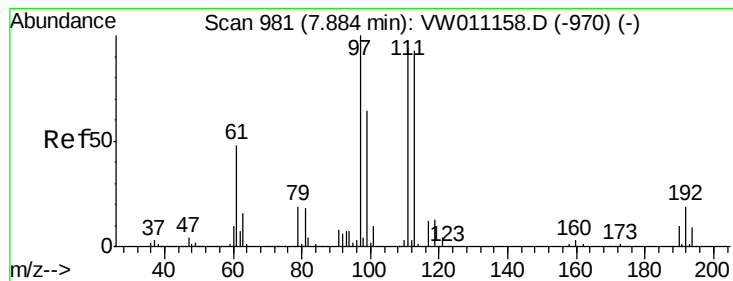
Ion Ratio Lower Upper

114 100

63 23.5 0.0 50.8

88 17.1 0.0 34.2





#35

Dibromofluoromethane

Concen: 48.095 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

Instrument :

MSVOA_W

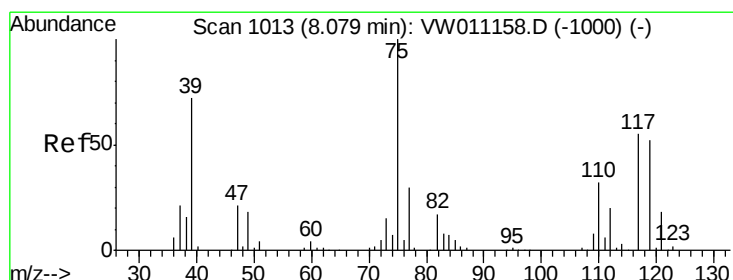
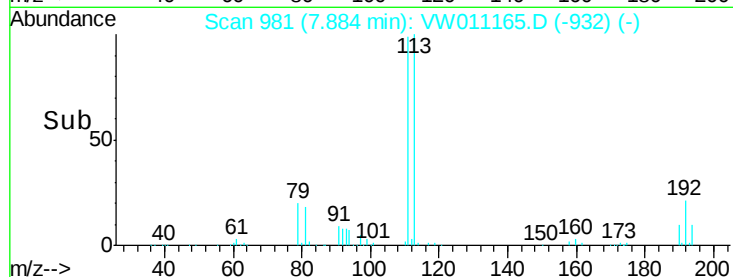
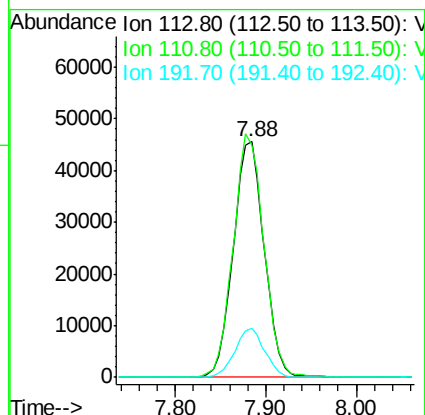
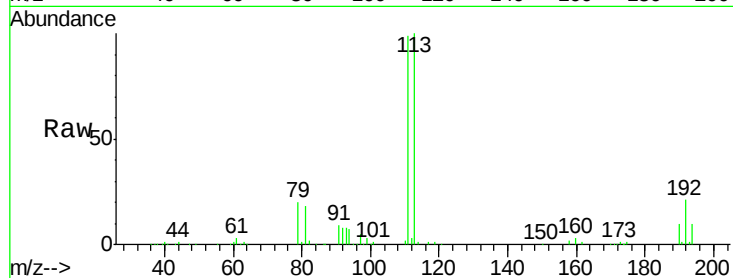
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion:	113	Resp:	107828
Ion Ratio	Lower	Upper	
113	100		
111	102.4	82.4	123.6
192	19.9	15.8	23.8

Manual Integrations
APPROVED

MMDadoda
7/9/2019 4:13:20 PM



#36

1,1-Dichloropropene

Concen: 2.531 ug/l

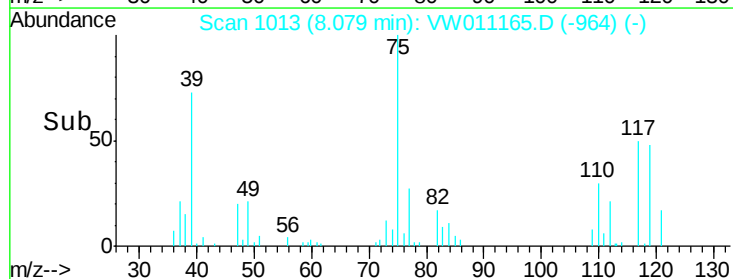
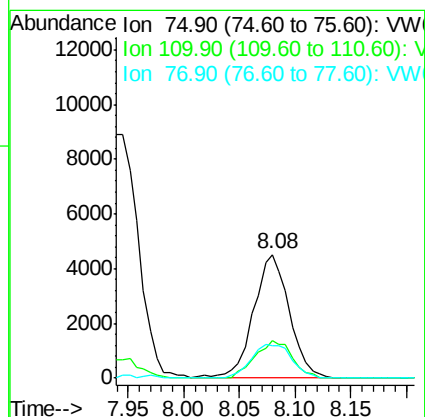
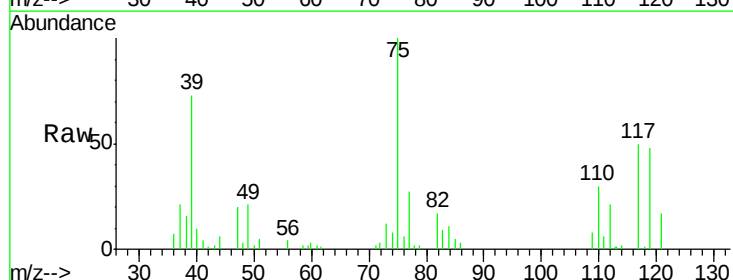
RT: 8.08 min Scan# 1013

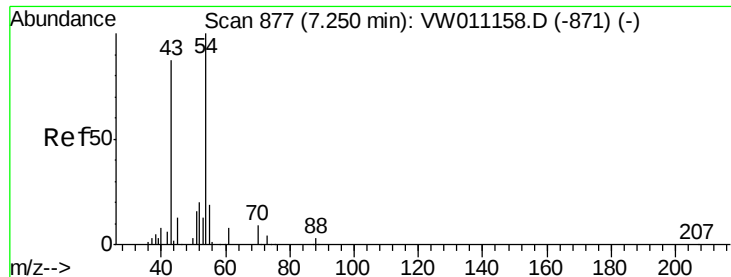
Delta R.T. -0.00 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

Tgt Ion:	75	Resp:	10138
Ion Ratio	Lower	Upper	
75	100		
110	30.9	15.9	47.6
77	30.6	24.6	36.8





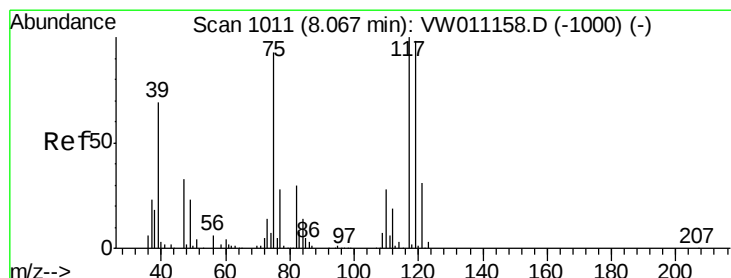
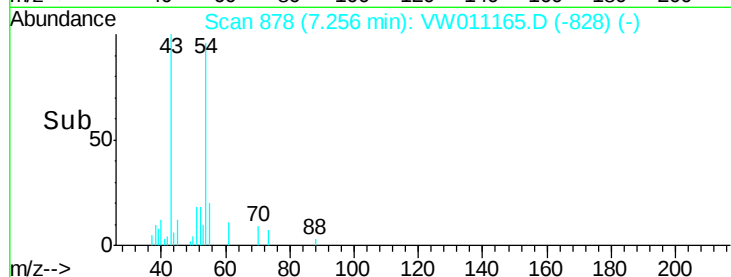
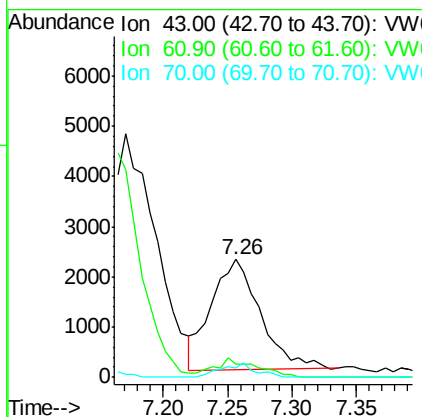
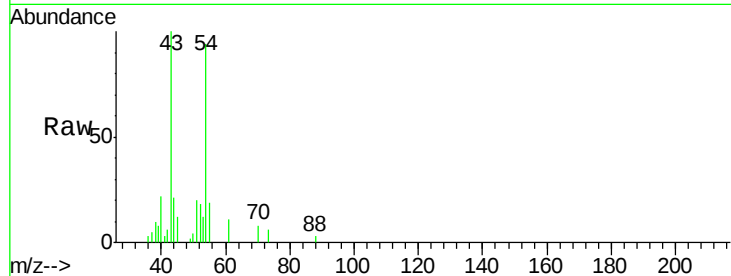
#37
Ethyl Acetate
Concen: 2.459 ug/l
RT: 7.26 min Scan# 878
Delta R.T. 0.01 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.5	9.5	14.3#
70	9.1	7.1	10.7

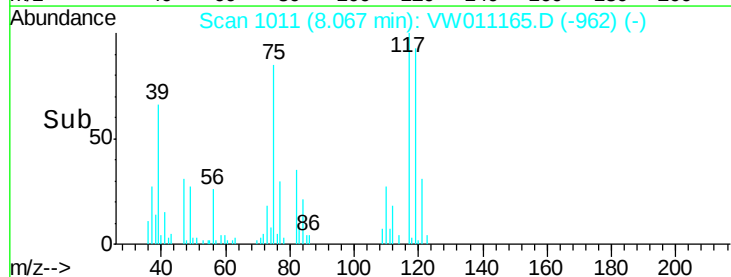
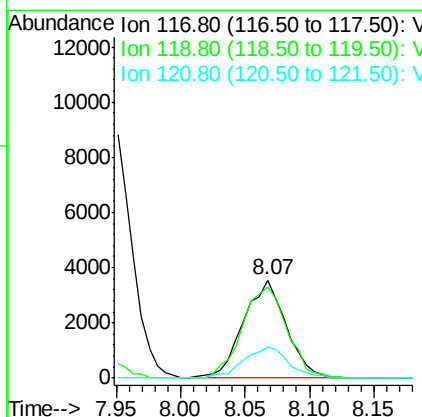
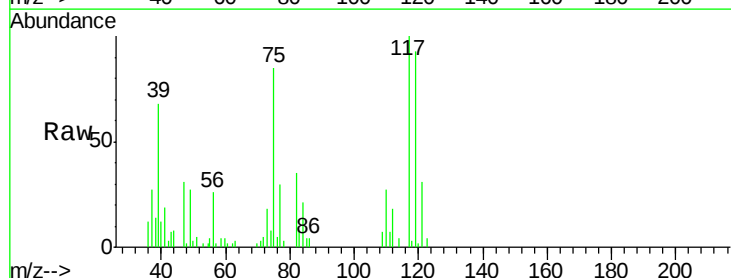
Manual Integrations
APPROVED

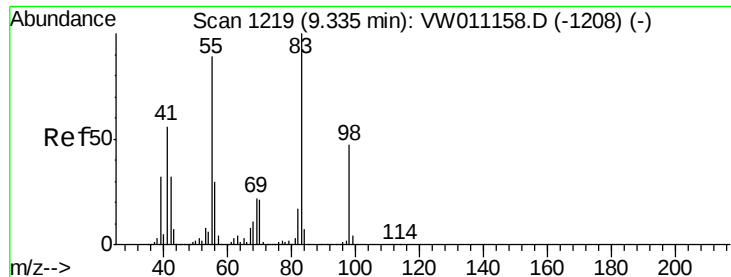
MMDadoda
7/9/2019 4:13:20 PM



#38
Carbon Tetrachloride
Concen: 2.401 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. 0.00 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.0	78.1	117.1
121	31.4	25.1	37.7





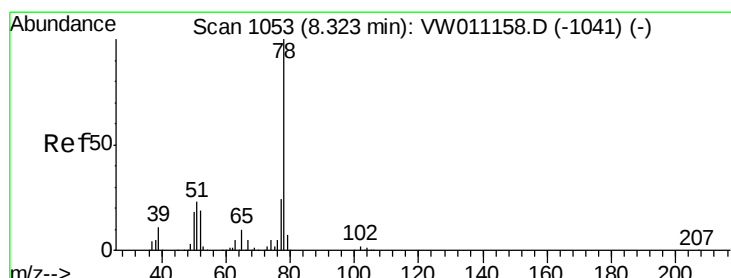
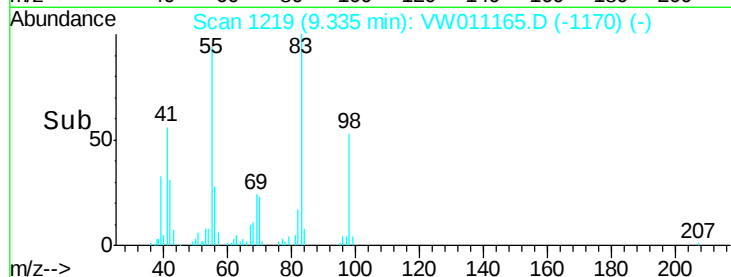
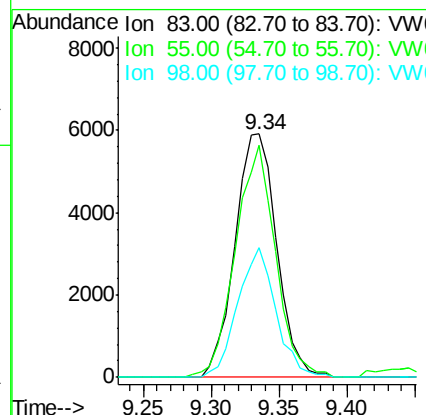
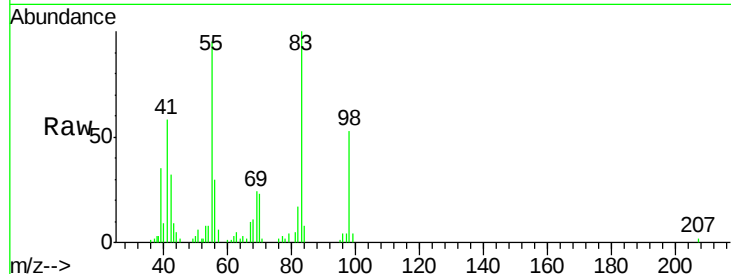
#39
Methvlcvclohexane
Concen: 2.610 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
83	100		
55	95.3	71.2	106.8
98	53.3	37.5	56.3

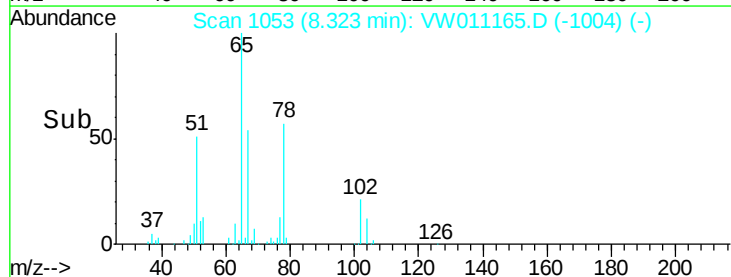
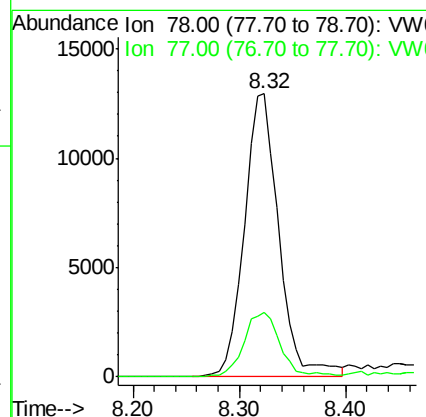
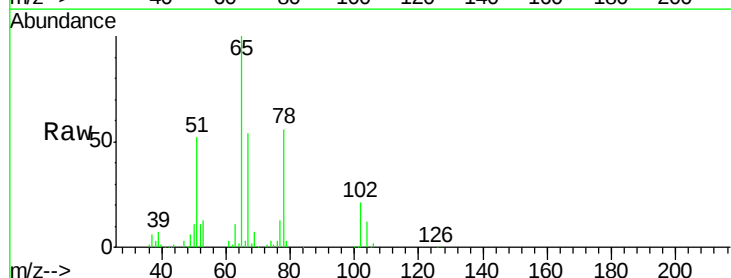
Manual Integrations
APPROVED

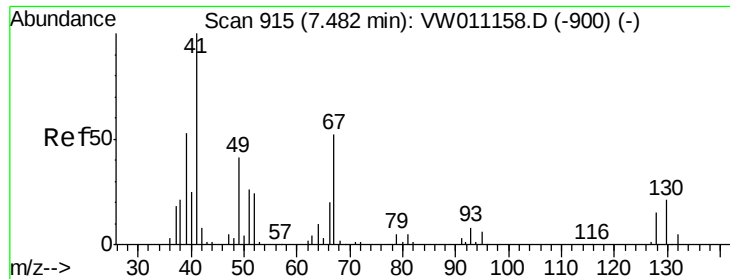
MMDadoda
7/9/2019 4:13:20 PM



#40
Benzene
Concen: 2.664 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. 0.00 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.9	19.0	28.6





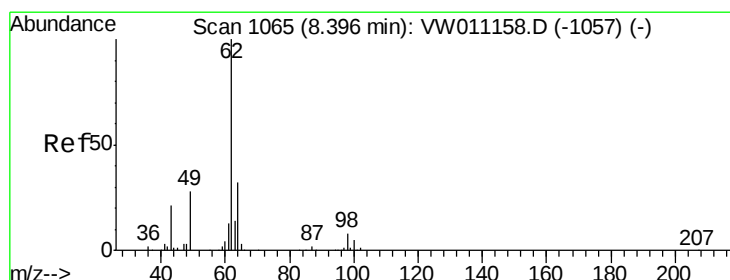
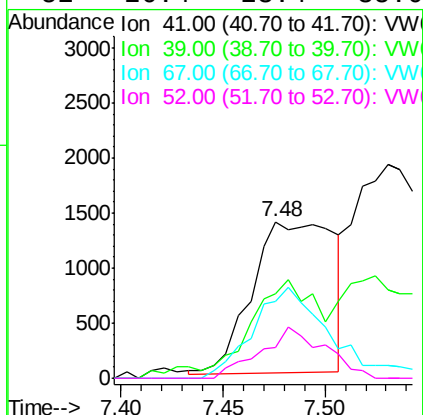
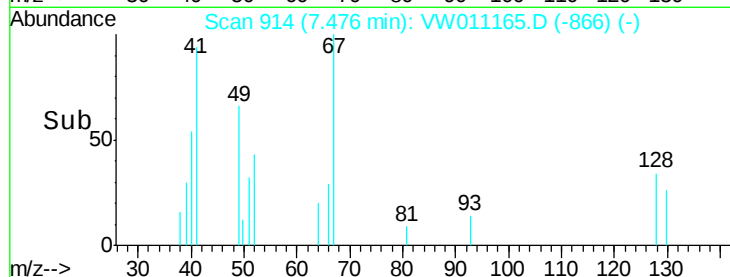
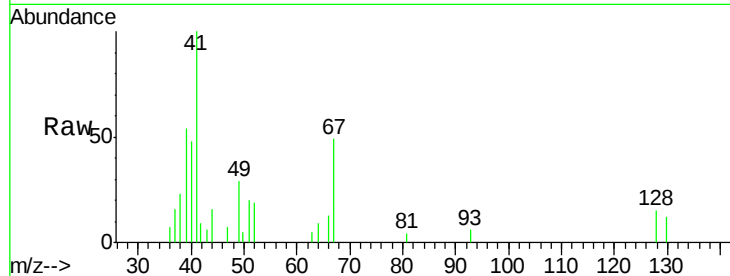
#41
Methacrylonitrile
Concen: 2.798 ug/l
RT: 7.48 min Scan# 914
Delta R.T. -0.01 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion	41	Resp	3851
Ion Ratio	Lower	Upper	
41	100		
39	55.6	48.0	72.0
67	56.1	49.7	74.5
52	26.4	23.4	35.0

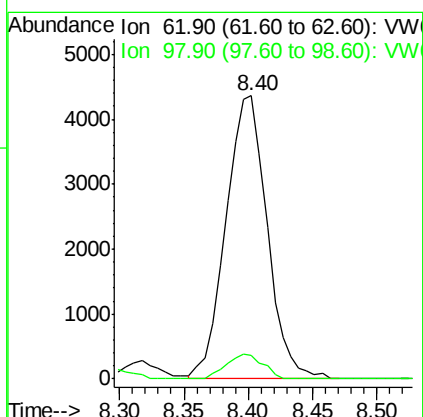
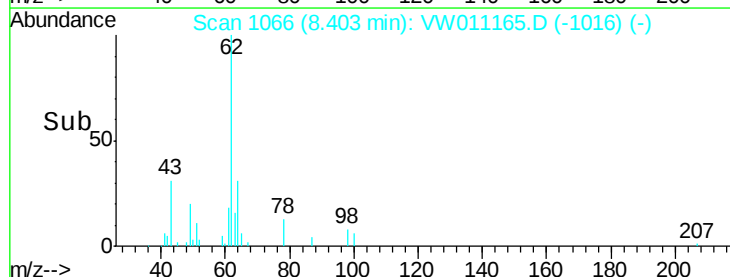
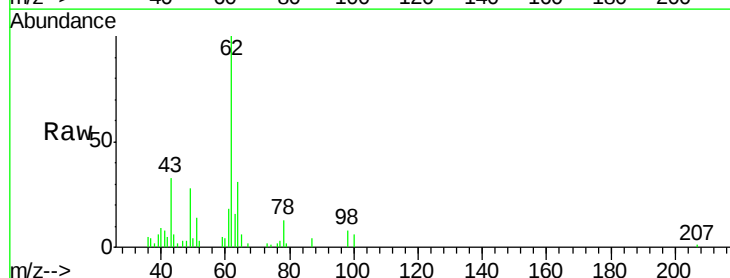
Manual Integrations
APPROVED

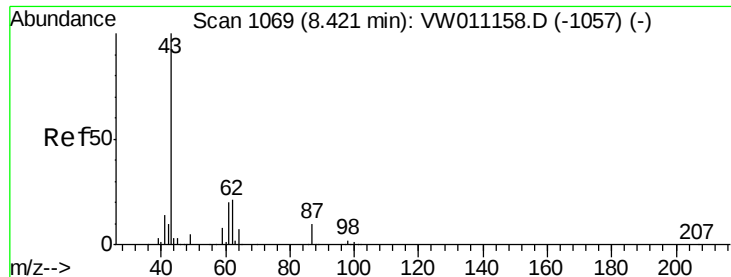
MMDadoda
7/9/2019 4:13:20 PM



#42
1,2-Dichloroethane
Concen: 2.710 ug/l
RT: 8.40 min Scan# 1066
Delta R.T. 0.01 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Tgt Ion	62	Resp	9730
Ion Ratio	Lower	Upper	
62	100		
98	7.7	0.0	16.8





#43

Isopropyl Acetate

Concen: 2.555 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. 0.01 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

Instrument :

MSVOA_W

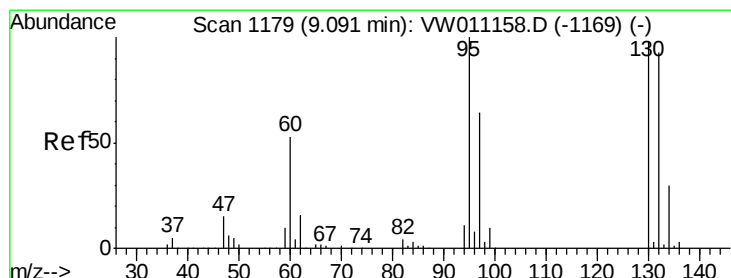
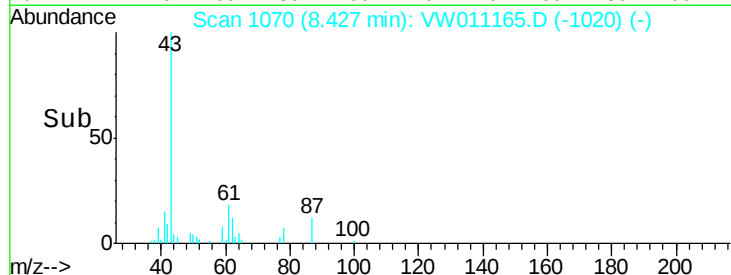
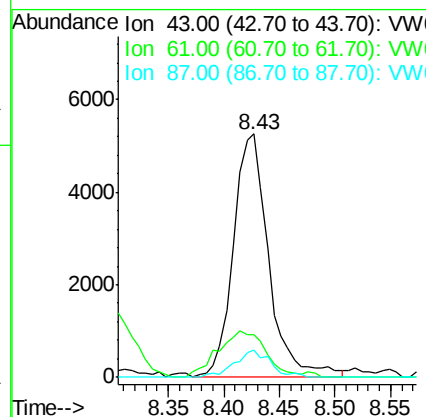
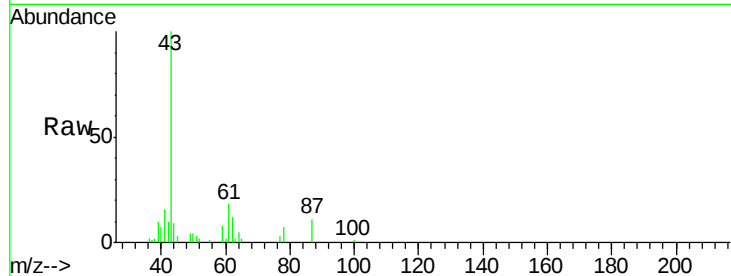
ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion:	43	Resp:	11610
Ion	Ratio	Lower	Upper
43	100		
61	25.9	20.7	31.1
87	11.3	8.1	12.1

Manual Integrations
APPROVED

MMDadoda
7/9/2019 4:13:20 PM



#44

Trichloroethene

Concen: 2.557 ug/l

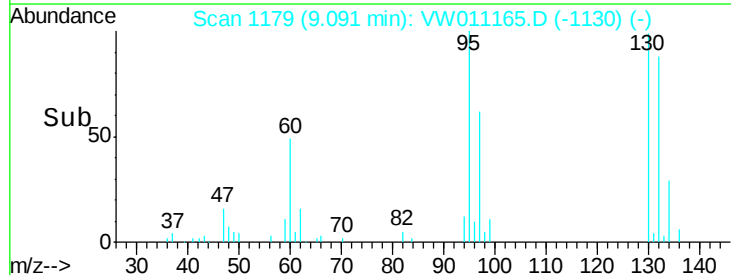
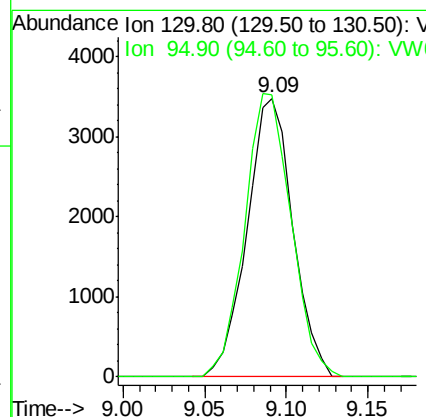
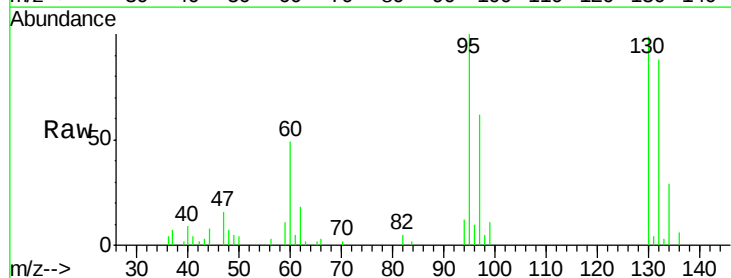
RT: 9.09 min Scan# 1179

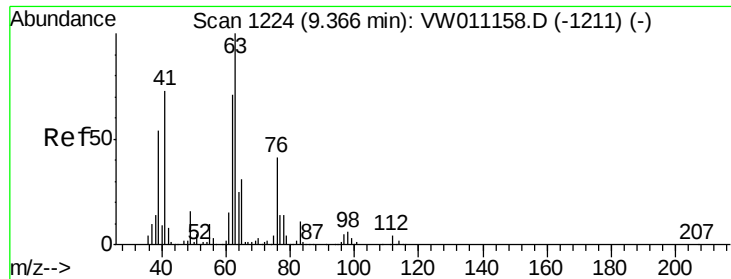
Delta R.T. -0.00 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

Tgt Ion:	130	Resp:	6811
Ion	Ratio	Lower	Upper
130	100		
95	101.3	0.0	203.6





#45

1,2-Dichloropropane

Concen: 2.573 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 63 Resp: 7714

Ion Ratio Lower Upper

63 100

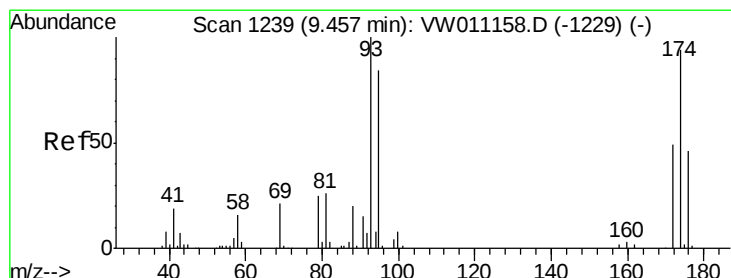
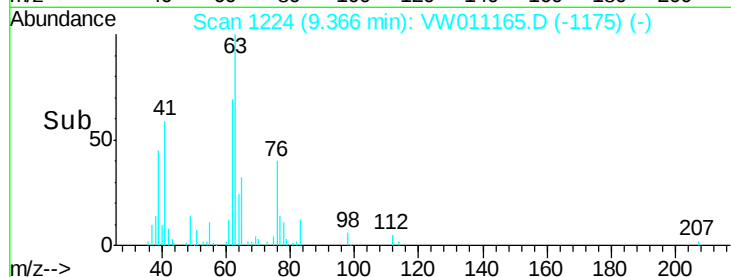
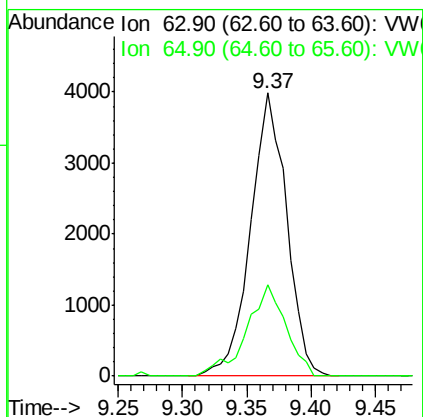
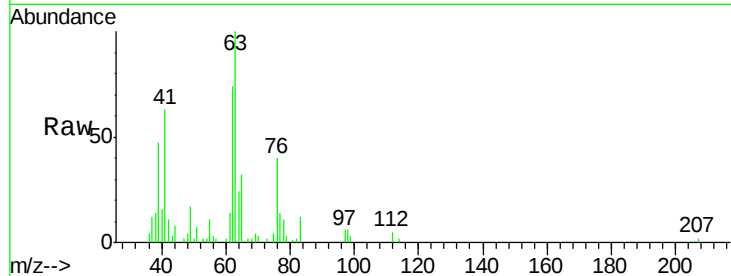
65 32.3 24.4 36.6

Manual Integrations

APPROVED

MMDadoda

7/9/2019 4:13:20 PM



#46

Dibromomethane

Concen: 2.529 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. -0.00 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

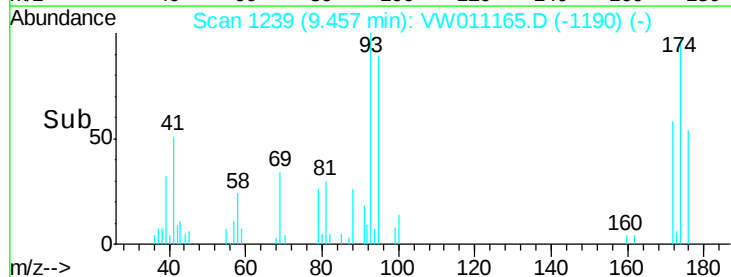
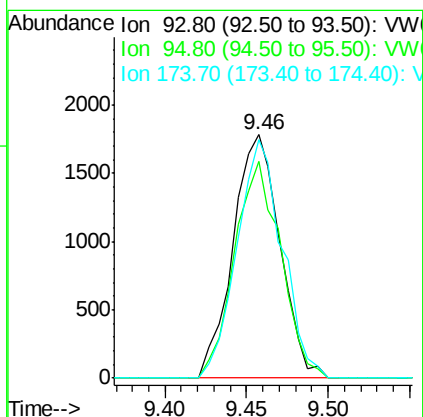
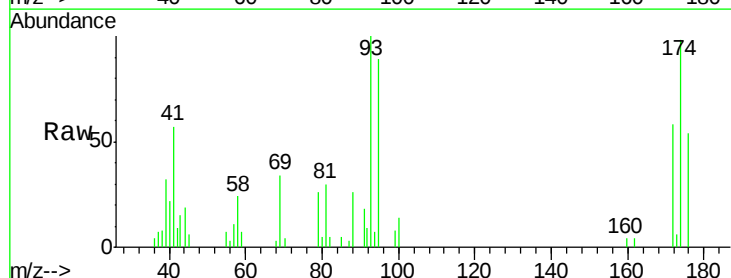
Tgt Ion: 93 Resp: 3561

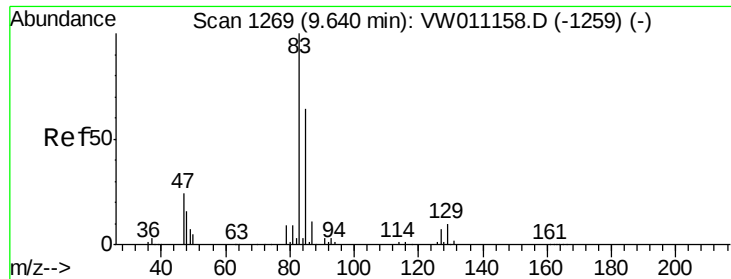
Ion Ratio Lower Upper

93 100

95 87.8 67.2 100.8

174 94.8 76.3 114.5





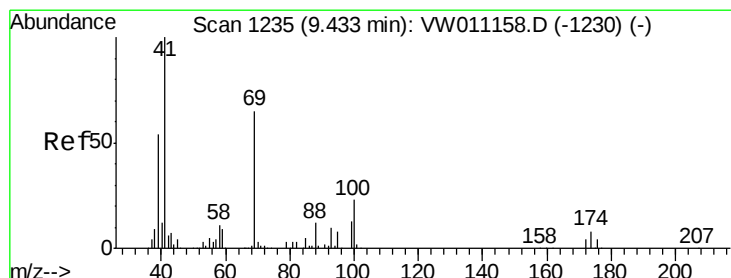
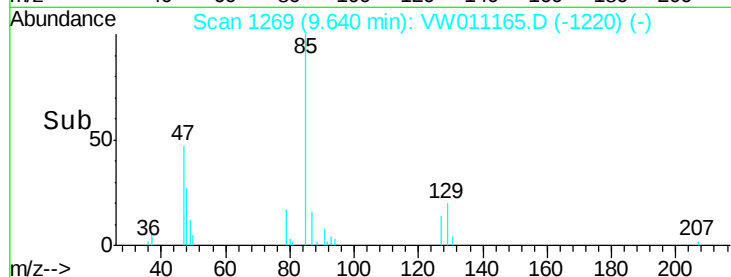
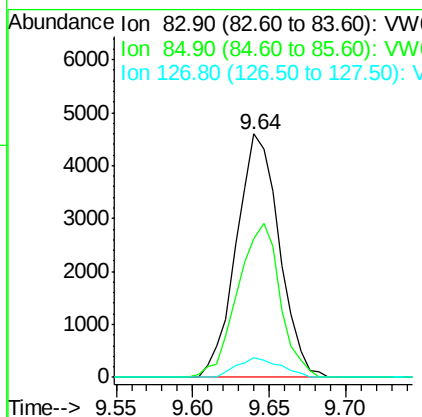
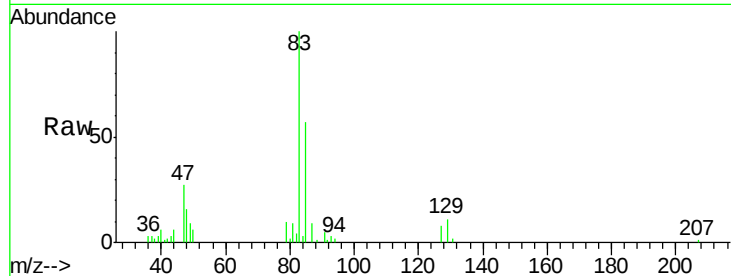
#47
Bromodichloromethane
Concen: 2.483 ug/l
RT: 9.64 min Scan# 1269
Delta R.T. 0.00 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion	83	Resp	8948
Ion Ratio	100	Lower	Upper
83	100		
85	57.2	51.0	76.4
127	7.8	6.0	9.0

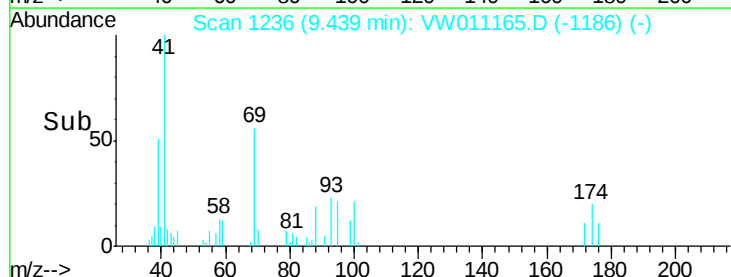
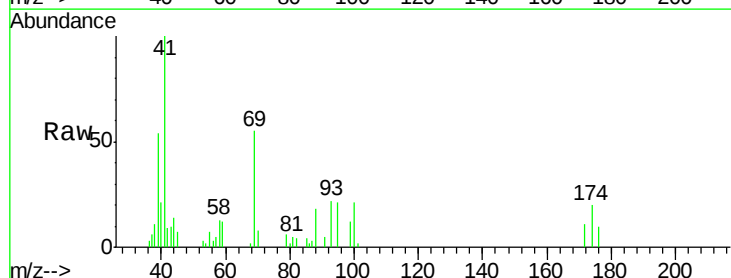
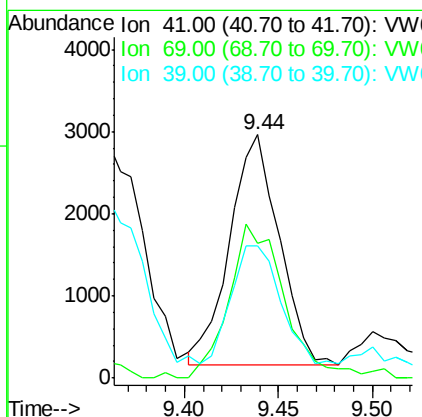
Manual Integrations
APPROVED

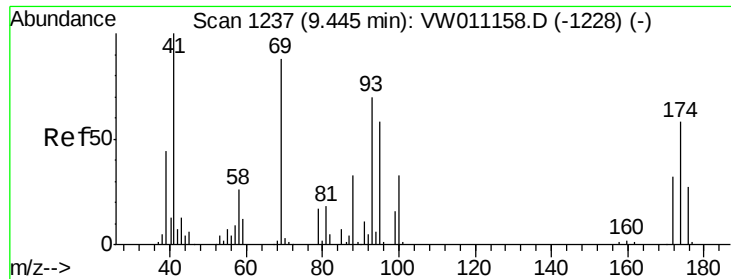
MMDadoda
7/9/2019 4:13:20 PM



#48
Methyl methacrylate
Concen: 2.336 ug/l
RT: 9.44 min Scan# 1236
Delta R.T. 0.01 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Tgt Ion	41	Resp	5107
Ion Ratio	100	Lower	Upper
41	100		
69	76.0	56.0	84.0
39	52.6	43.5	65.3





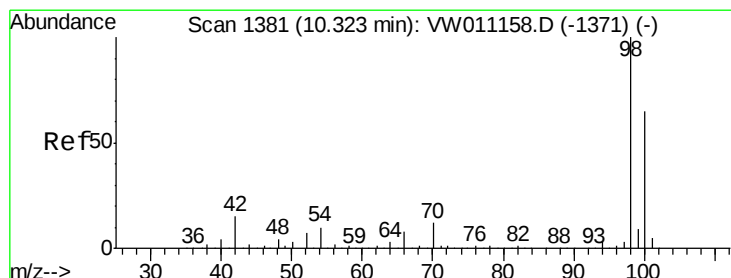
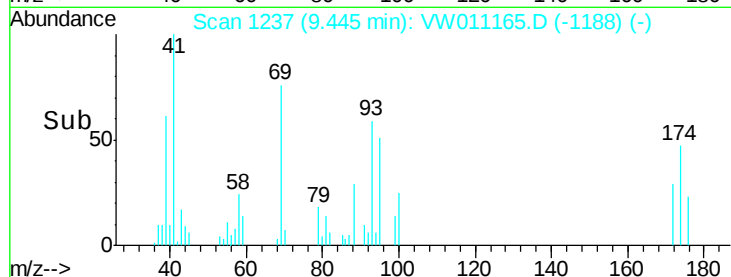
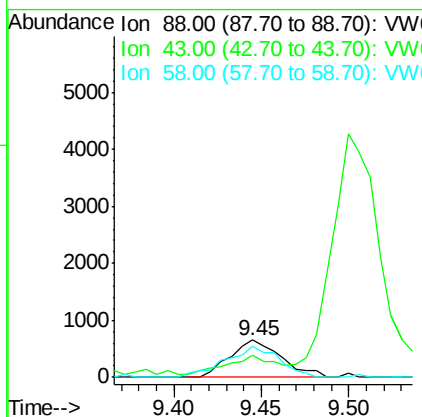
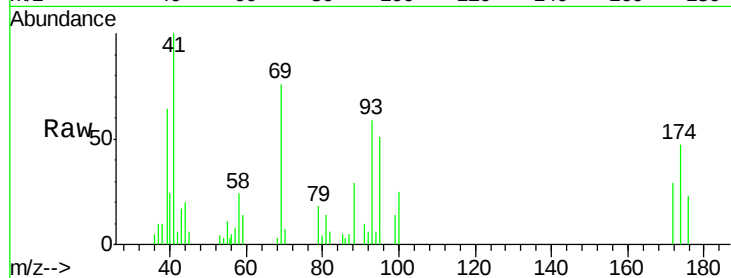
#49
1,4-Dioxane
Concen: 57.138 ug/l
RT: 9.45 min Scan# 1237
Delta R.T. 0.00 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
88	100		
43	48.0	33.4	50.0
58	86.7	64.5	96.7

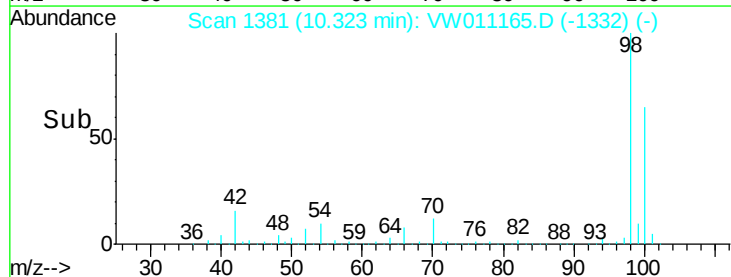
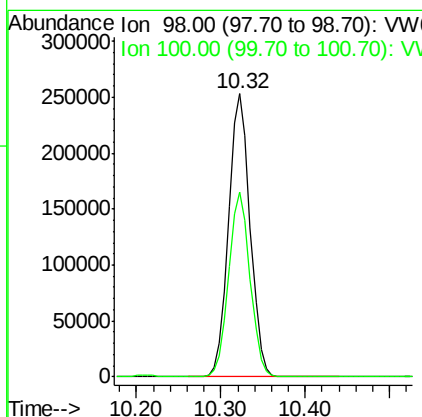
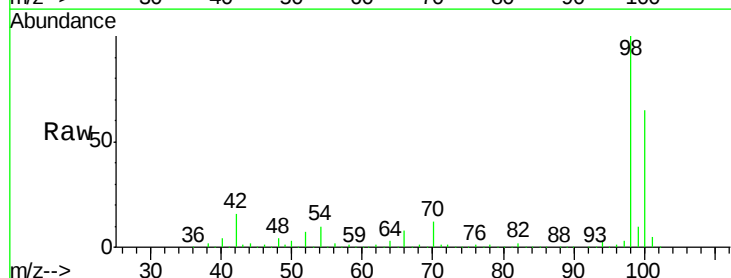
Manual Integrations
APPROVED

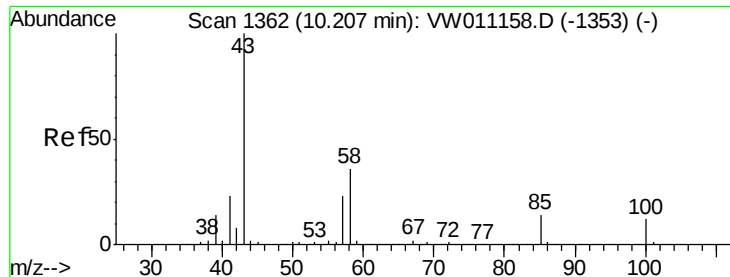
MMDadoda
7/9/2019 4:13:20 PM



#50
Toluene-d8
Concen: 48.483 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.4	78.6





#51

4-Methyl-2-Pentanone

Concen: 12.104 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 43 Resp: 28728

Ion Ratio Lower Upper

43 100

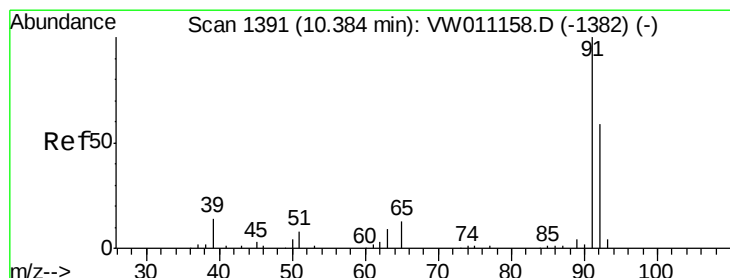
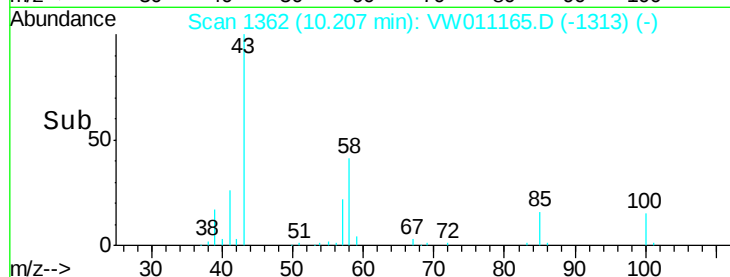
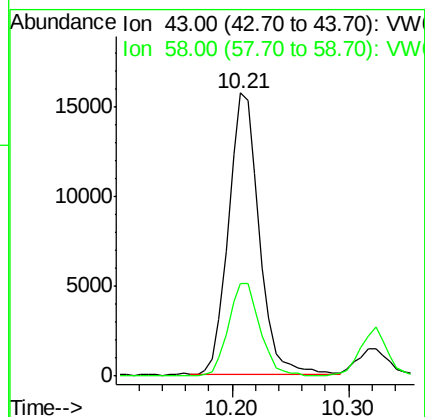
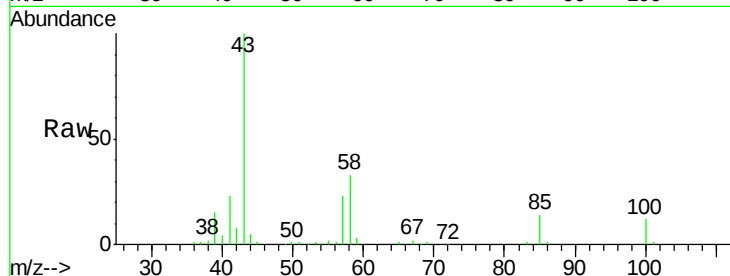
58 34.0 28.2 42.2

Manual Integrations

APPROVED

MMDadoda

7/9/2019 4:13:20 PM



#52

Toluene

Concen: 2.606 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW011165.D

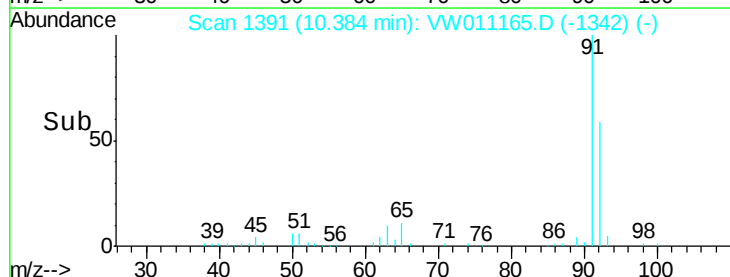
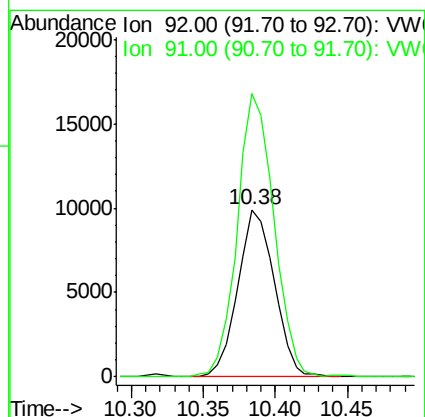
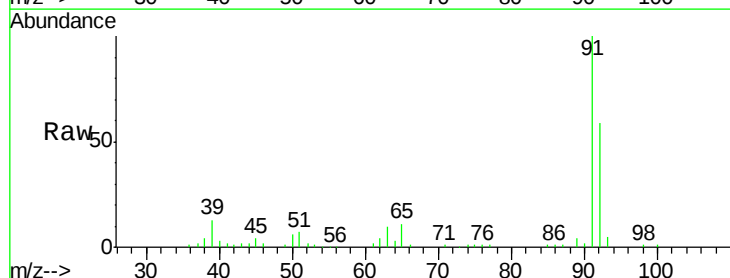
Acq: 08 Jul 2019 17:13

Tgt Ion: 92 Resp: 17499

Ion Ratio Lower Upper

92 100

91 170.1 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 2.247 ug/l

RT: 10.61 min Scan# 1428

Delta R.T. 0.01 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 75 Resp: 8619

Ion Ratio Lower Upper

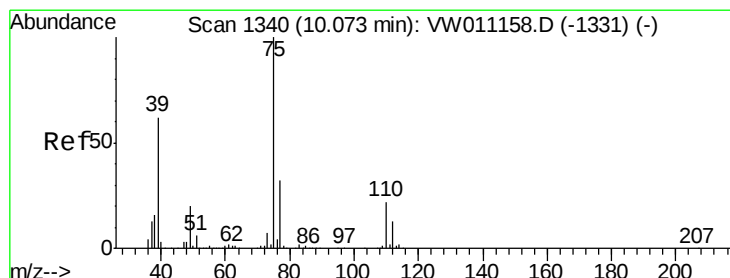
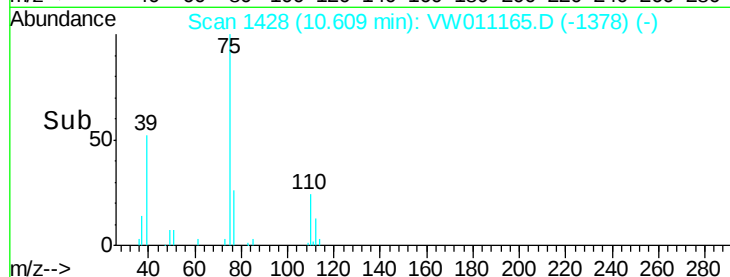
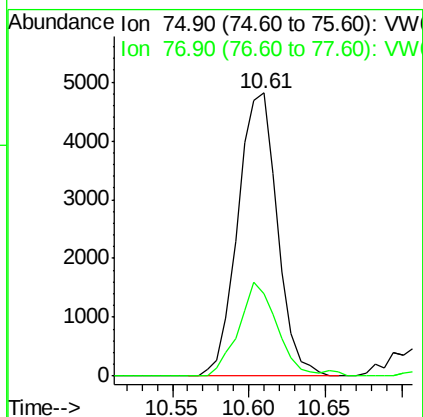
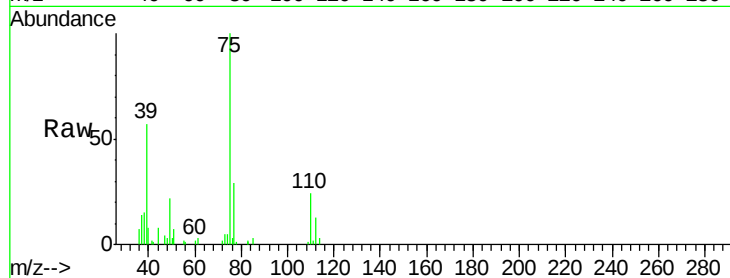
75 100

77 28.9 25.4 38.0

Manual Integrations
APPROVED

MMDadoda

7/9/2019 4:13:20 PM



#54

cis-1,3-Dichloropropene

Concen: 2.340 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

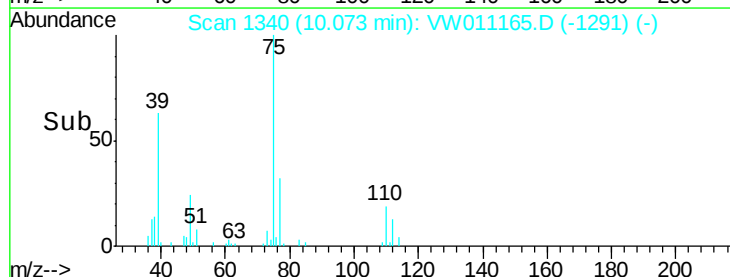
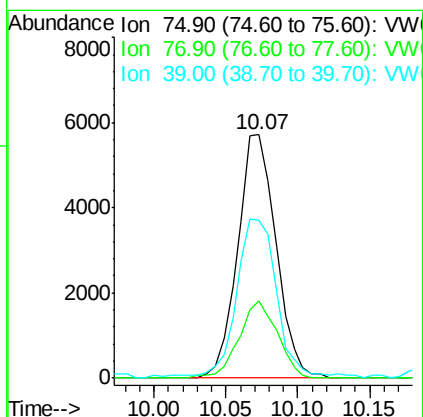
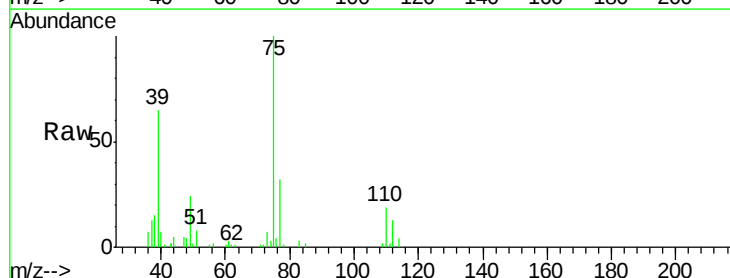
Tgt Ion: 75 Resp: 10565

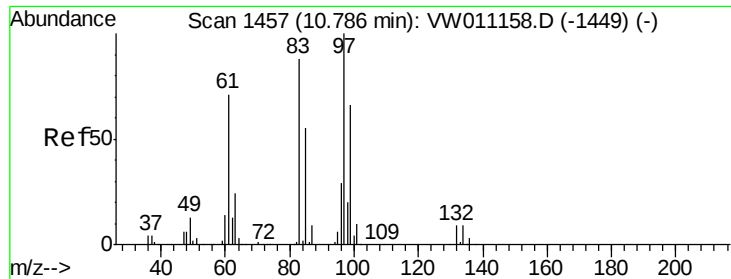
Ion Ratio Lower Upper

75 100

77 31.9 25.7 38.5

39 63.6 49.8 74.8





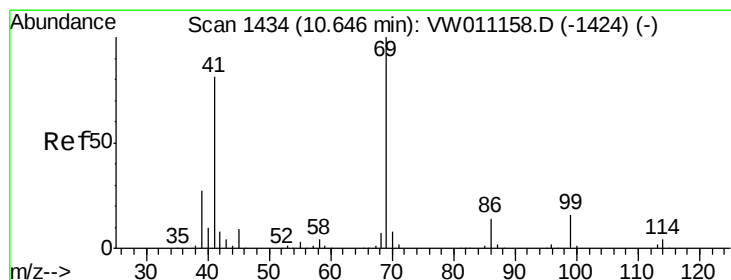
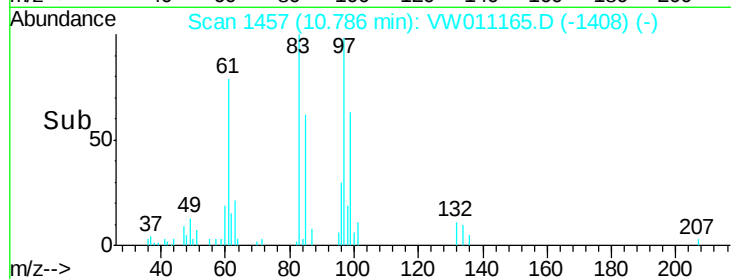
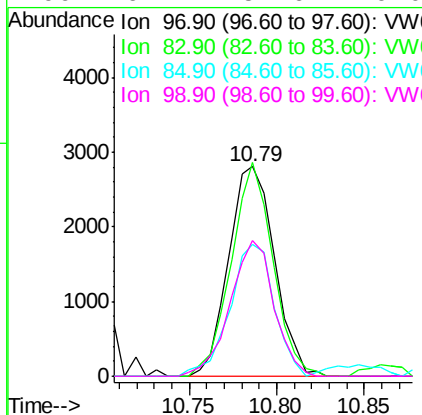
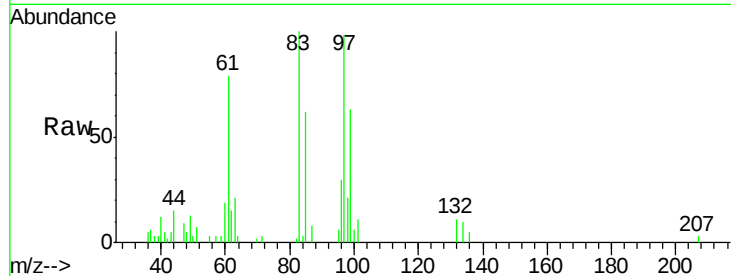
#55
 1,1,2-Trichloroethane
 Concen: 2.572 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. -0.00 min
 Lab File: VW011165.D
 Acq: 08 Jul 2019 17:13

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2019

Tot Ion:	97	Resp:	5139
Ion	Ratio	Lower	Upper
97	100		
83	102.0	70.2	105.4
85	60.0	44.2	66.2
99	64.7	52.6	79.0

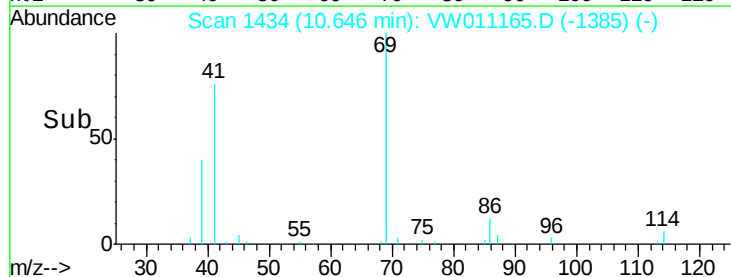
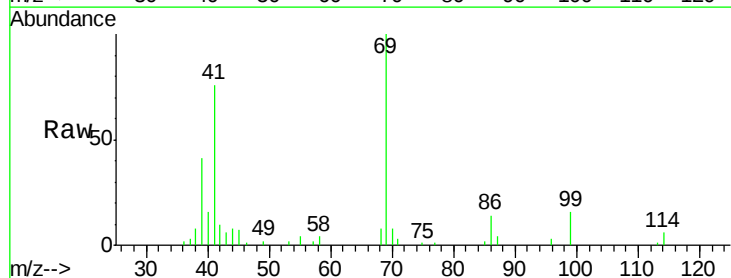
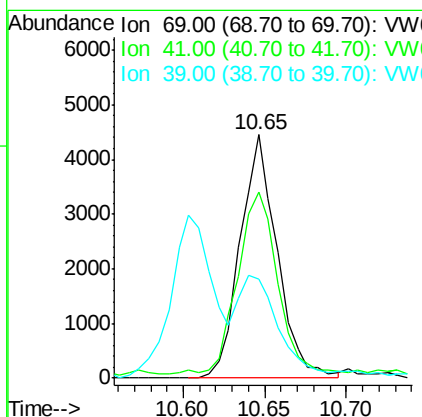
Manual Integrations
 APPROVED

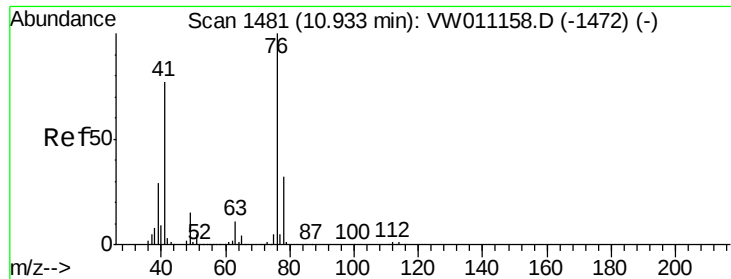
MMDadoda
 7/9/2019 4:13:20 PM



#56
 Ethyl methacrylate
 Concen: 2.314 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. 0.00 min
 Lab File: VW011165.D
 Acq: 08 Jul 2019 17:13

Tgt Ion:	69	Resp:	7039
Ion	Ratio	Lower	Upper
69	100		
41	81.2	66.5	99.7
39	41.5	32.5	48.7





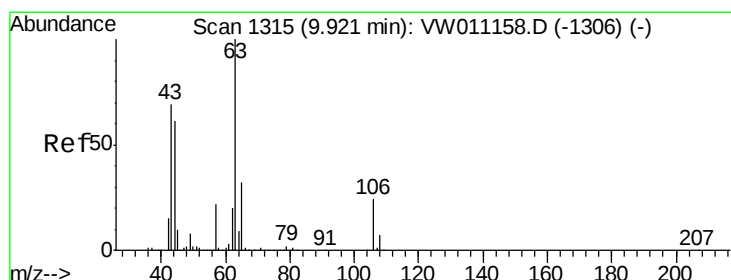
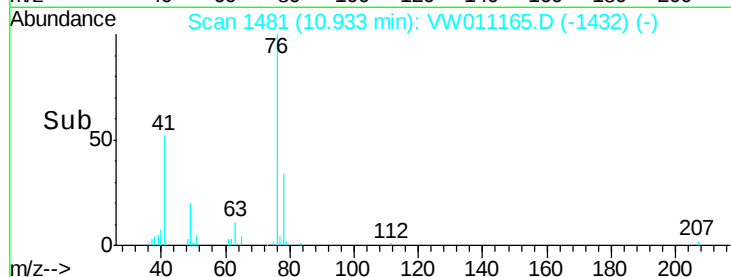
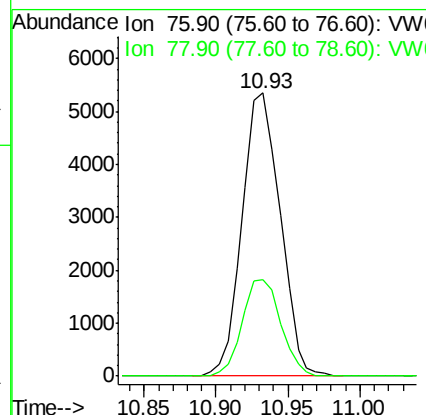
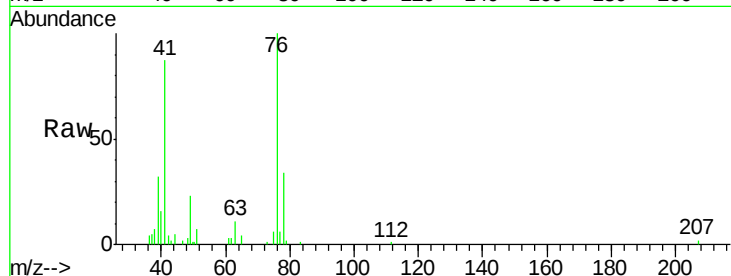
#57
 1,3-Dichloropropane
 Concen: 2.603 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. 0.00 min
 Lab File: VW011165.D
 Acq: 08 Jul 2019 17:13

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 76 Resp: 9833
 Ion Ratio Lower Upper
 76 100
 78 34.4 26.2 39.2

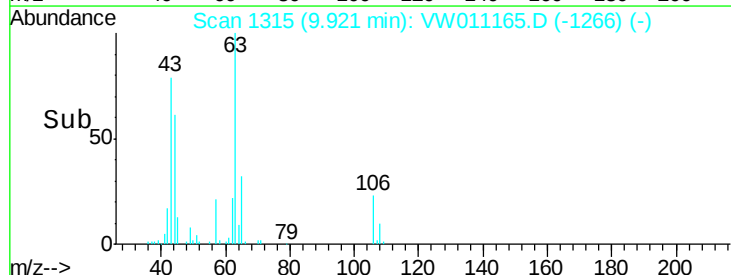
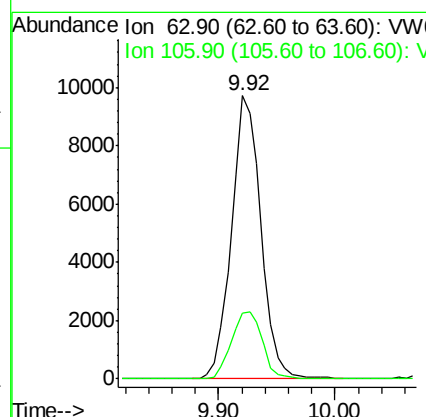
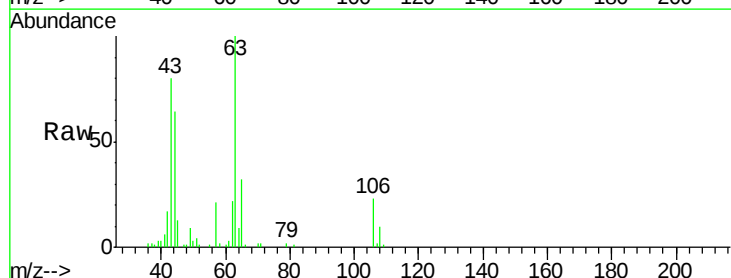
Manual Integrations
 APPROVED

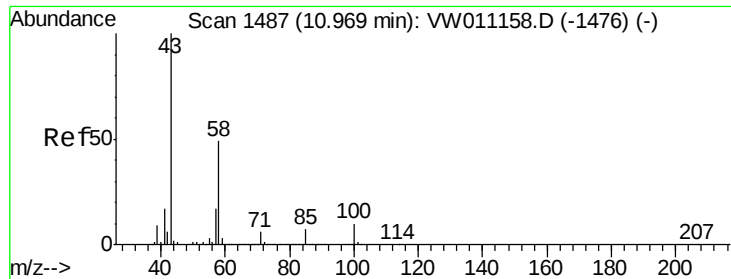
MMDadoda
 7/9/2019 4:13:20 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 12.099 ug/l
 RT: 9.92 min Scan# 1315
 Delta R.T. -0.00 min
 Lab File: VW011165.D
 Acq: 08 Jul 2019 17:13

Tgt Ion: 63 Resp: 17060
 Ion Ratio Lower Upper
 63 100
 106 24.9 19.4 29.0





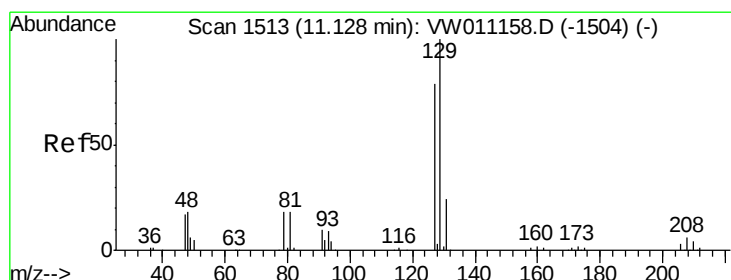
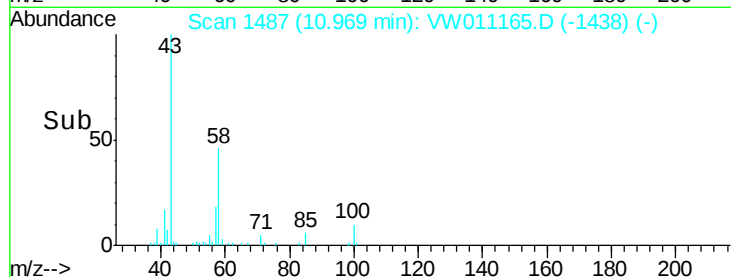
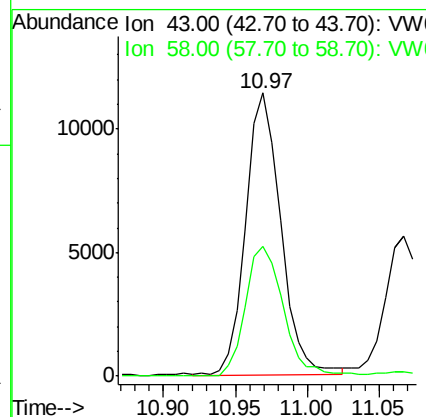
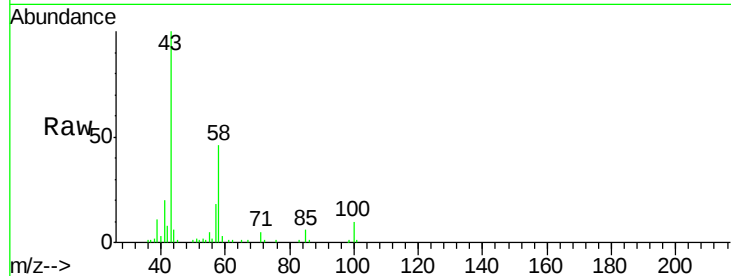
#59
2-Hexanone
Concen: 11.717 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion	43	Resp	19286
Ion Ratio	100	Lower	Upper
43	100		
58	49.8	24.4	73.4

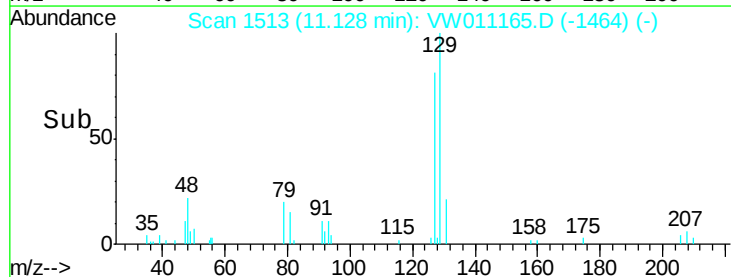
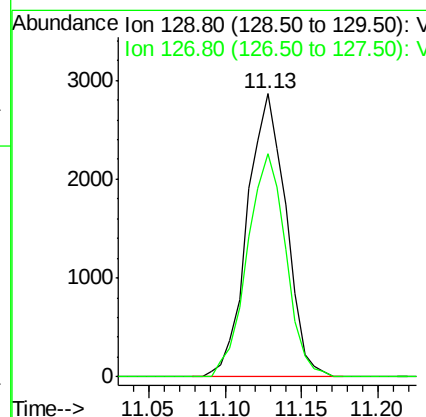
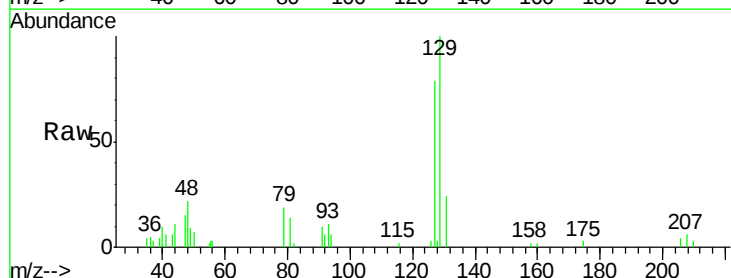
Manual Integrations
APPROVED

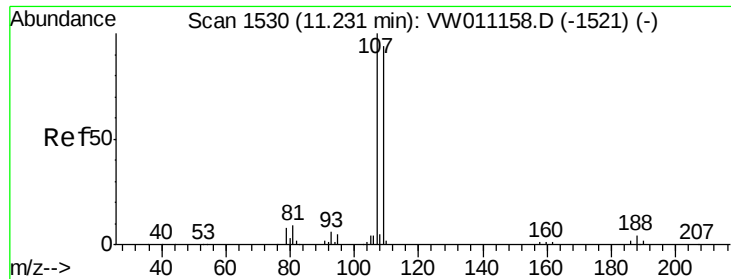
MMDadoda
7/9/2019 4:13:20 PM



#60
Dibromochloromethane
Concen: 2.299 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Tgt Ion	129	Resp	5036	
Ion Ratio	129	100	Lower	Upper
129	100			
127	78.9	39.1	117.3	





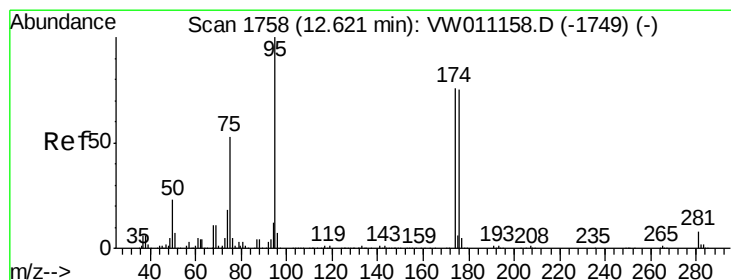
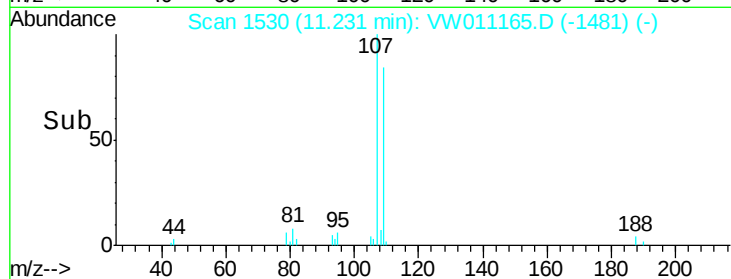
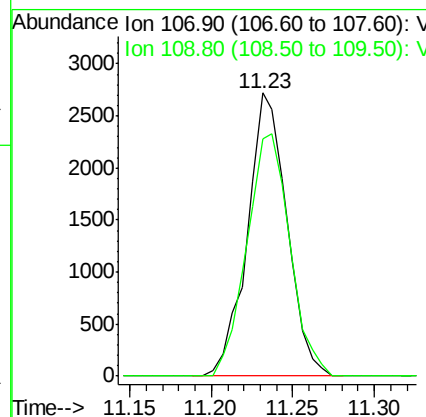
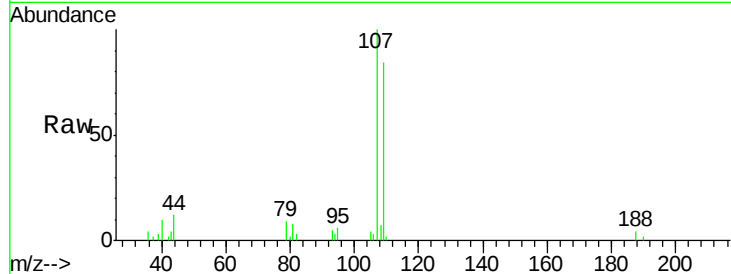
#61
1,2-Dibromoethane
Concen: 2.429 ug/l
RT: 11.23 min Scan# 1530
Delta R.T. 0.00 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 107 Resp: 4597
Ion Ratio Lower Upper
107 100
109 92.7 75.2 112.8

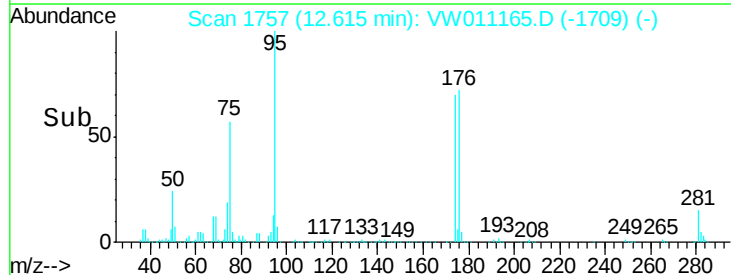
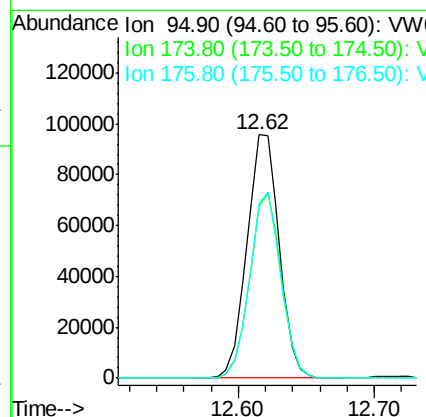
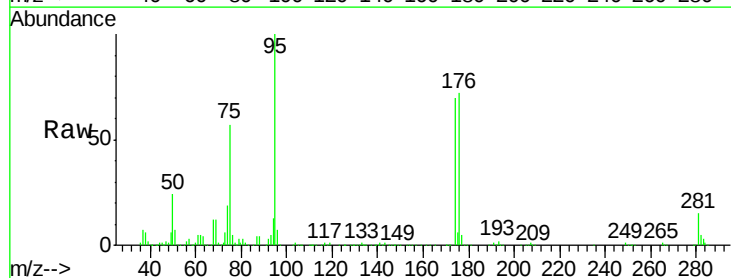
Manual Integrations
APPROVED

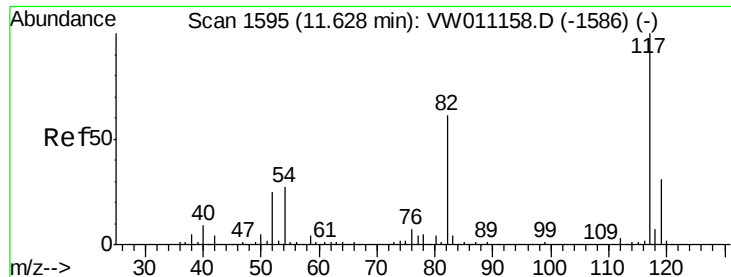
MMDadoda
7/9/2019 4:13:20 PM



#62
4-Bromofluorobenzene
Concen: 47.940 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.01 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Tgt Ion: 95 Resp: 159241
Ion Ratio Lower Upper
95 100
174 74.1 0.0 147.6
176 73.8 0.0 144.6





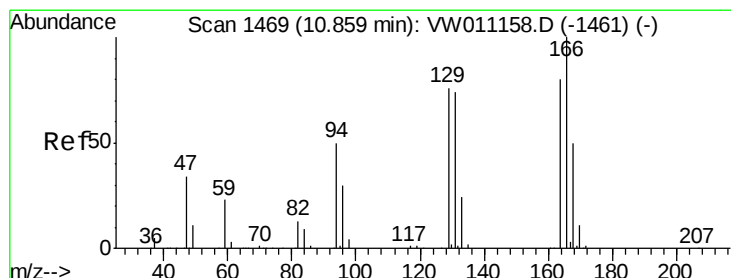
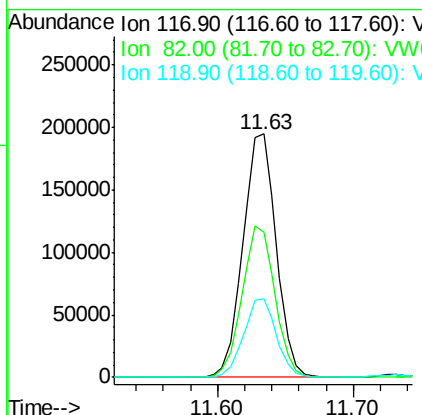
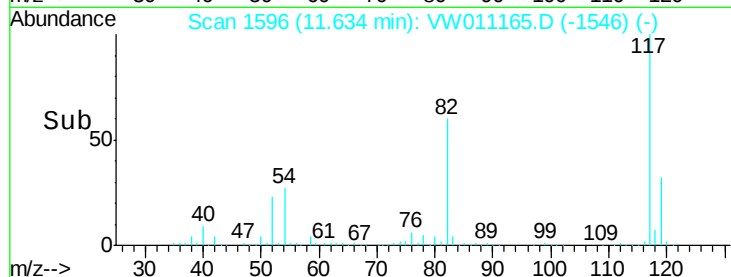
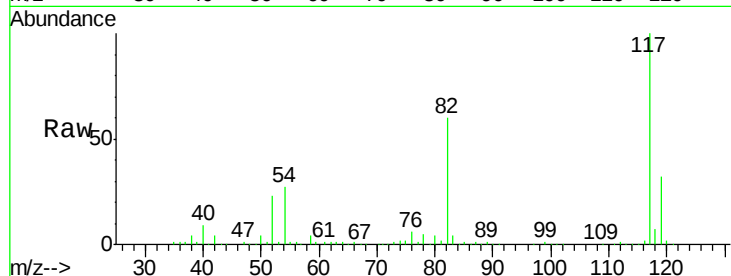
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.01 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
117	100		
82	59.6	48.9	73.3
119	32.0	25.0	37.6

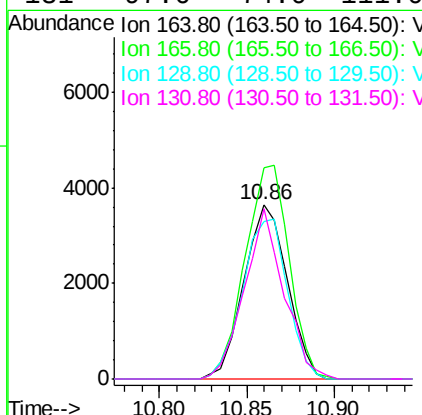
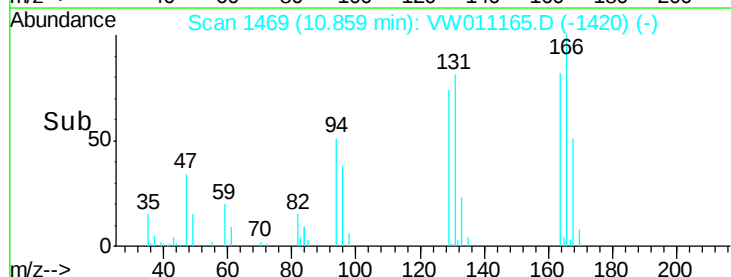
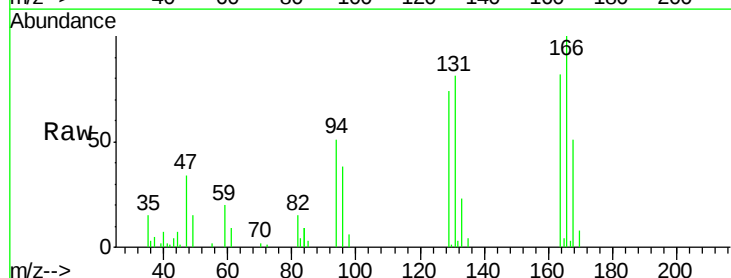
Manual Integrations
APPROVED

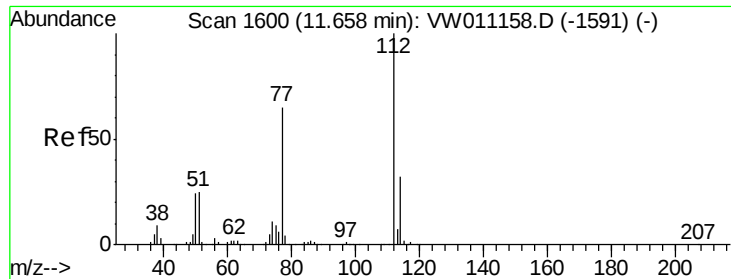
MMDadoda
7/9/2019 4:13:20 PM



#64
Tetrachloroethene
Concen: 2.791 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Tgt Ion	Ratio	Lower	Upper
164	100		
166	121.3	99.7	149.5
129	90.3	76.2	114.2
131	97.6	74.0	111.0





#65

Chlorobenzene

Concen: 2.626 ug/l

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion:112 Resp: 17763

Ion Ratio Lower Upper

112 100

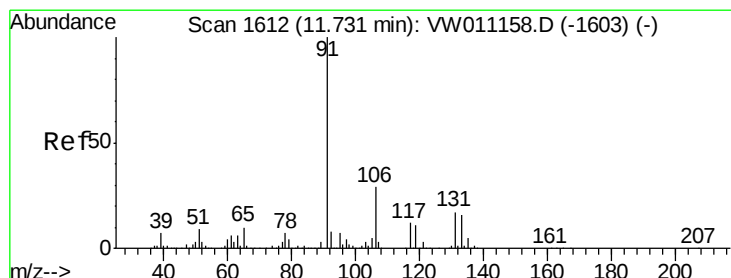
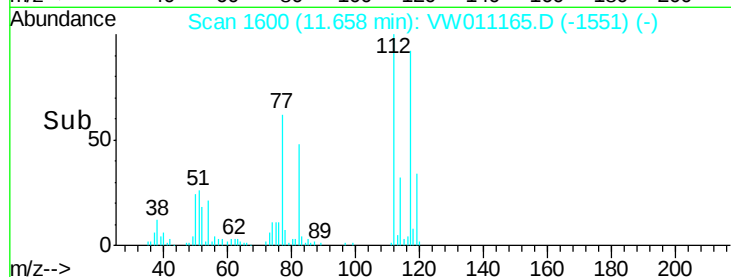
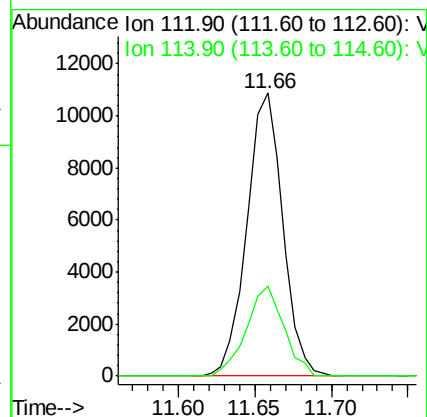
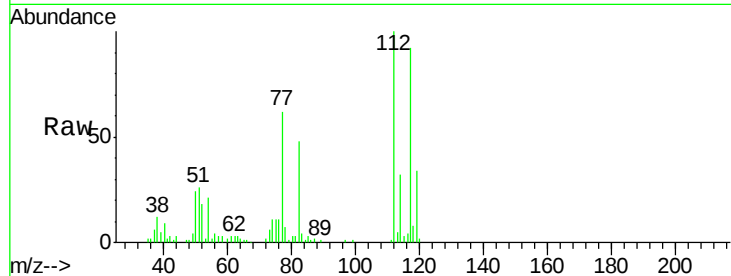
114 32.1 25.5 38.3

Manual Integrations

APPROVED

MMDadoda

7/9/2019 4:13:20 PM



#66

1,1,1,2-Tetrachloroethane

Concen: 2.381 ug/l

RT: 11.73 min Scan# 1611

Delta R.T. -0.01 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

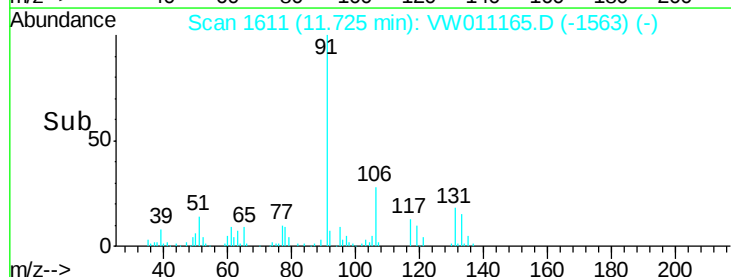
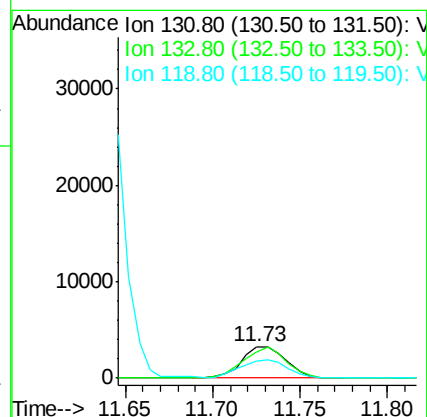
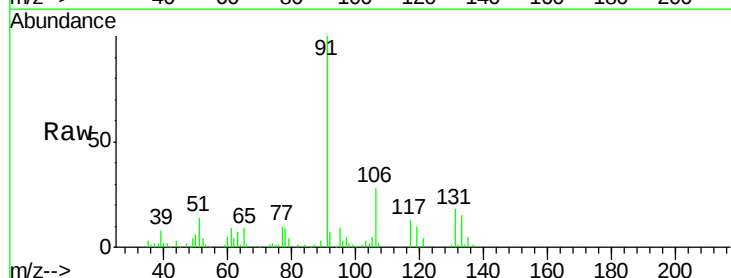
Tgt Ion:131 Resp: 5671

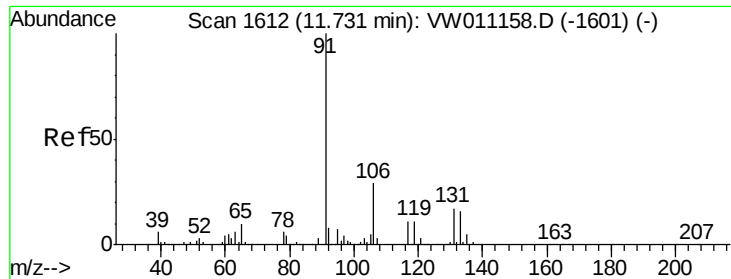
Ion Ratio Lower Upper

131 100

133 96.7 47.9 143.8

119 63.5 33.1 99.2





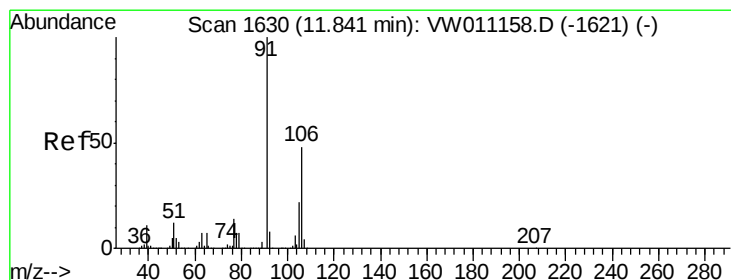
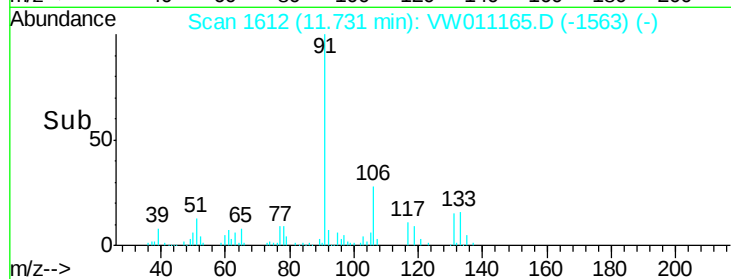
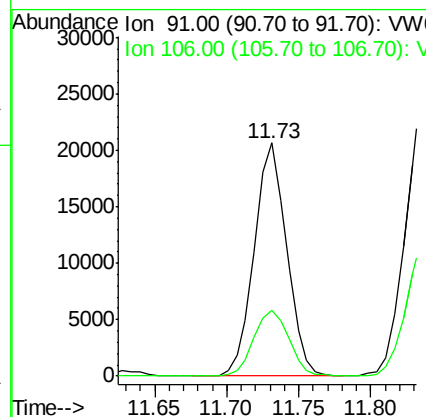
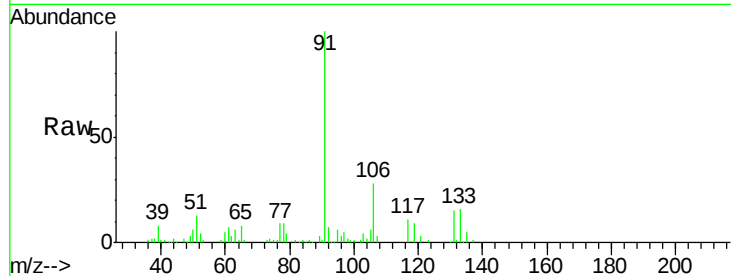
#67
Ethyl Benzene
Concen: 2.490 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 91 Resp: 32241
Ion Ratio Lower Upper
91 100
106 28.1 23.5 35.3

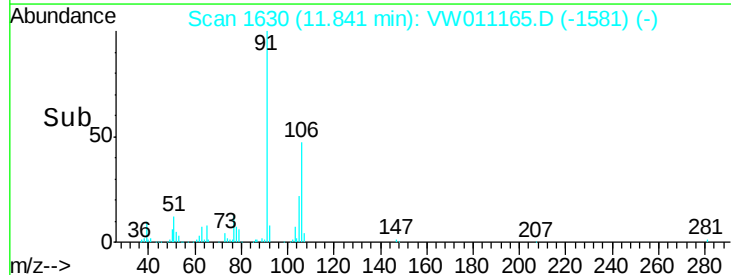
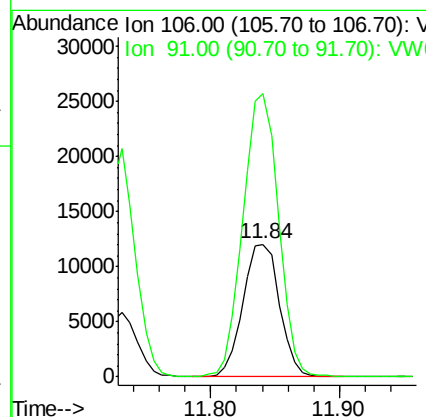
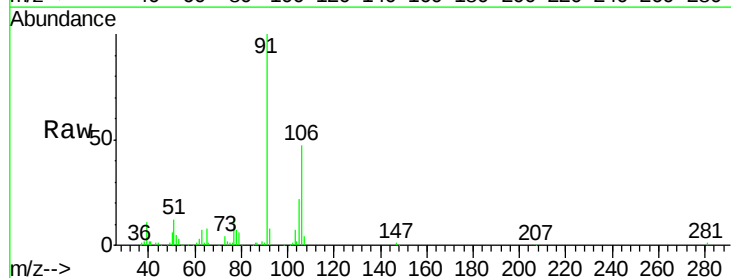
Manual Integrations
APPROVED

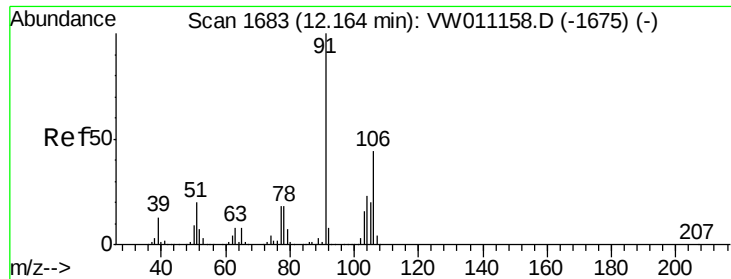
MMDadoda
7/9/2019 4:13:20 PM



#68
m/p-Xylenes
Concen: 5.037 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Tgt Ion: 106 Resp: 23601
Ion Ratio Lower Upper
106 100
91 208.6 167.7 251.5





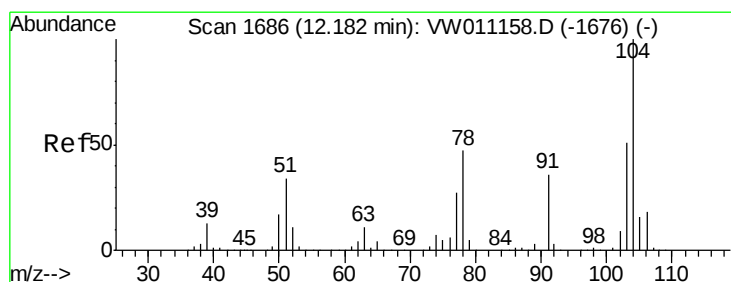
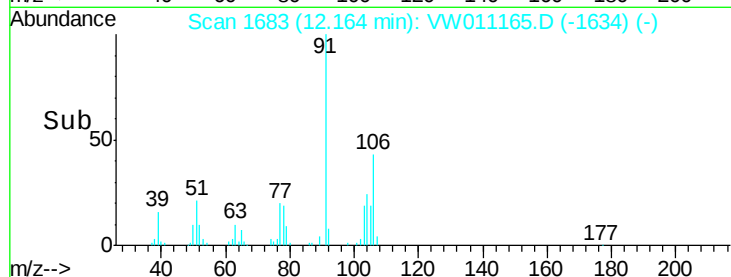
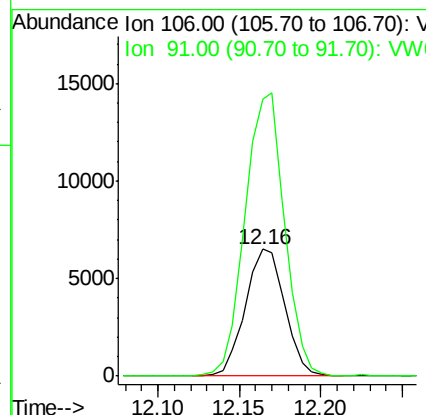
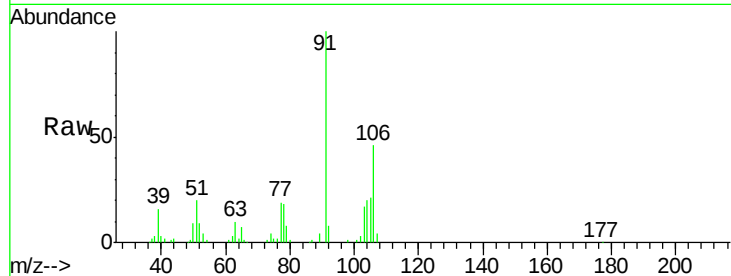
#69
o-Xylene
Concen: 2.487 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion:106 Resp: 10983
Ion Ratio Lower Upper
106 100
91 222.2 110.7 332.1

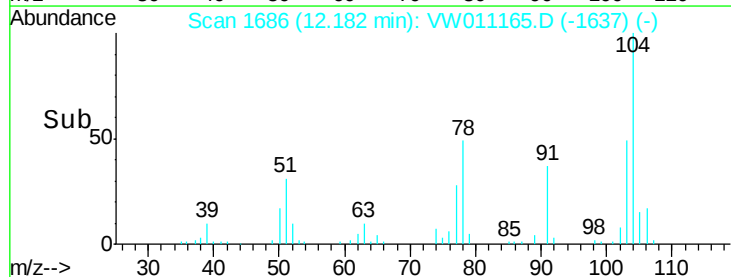
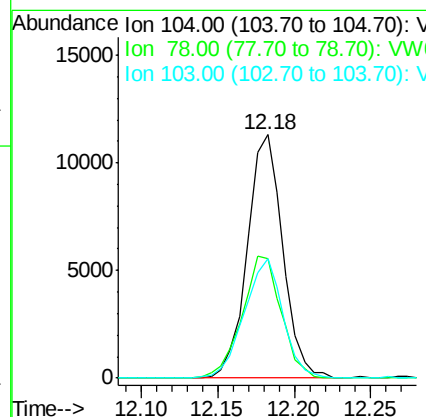
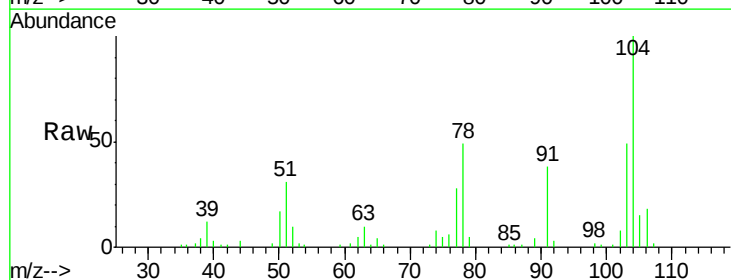
Manual Integrations
APPROVED

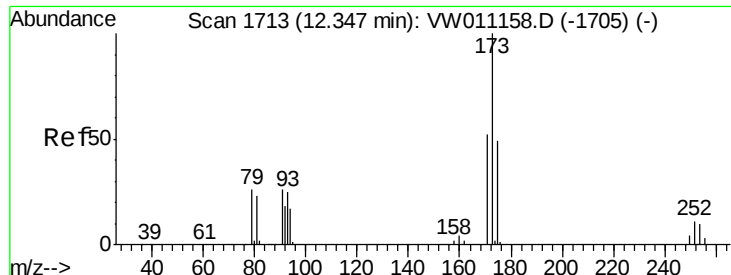
MMDadoda
7/9/2019 4:13:20 PM



#70
Styrene
Concen: 2.383 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Tgt Ion:104 Resp: 18165
Ion Ratio Lower Upper
104 100
78 55.3 43.1 64.7
103 53.6 44.1 66.1





#71

Bromoform

Concen: 2.328 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion:173 Resp: 2948

Ion Ratio Lower Upper

173 100

175 45.5 24.8 74.3

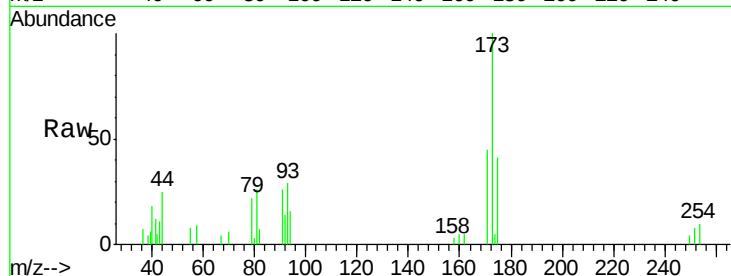
254 0.0 0.0 0.0

Manual Integrations

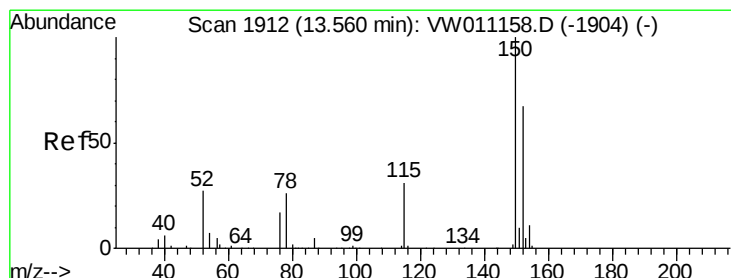
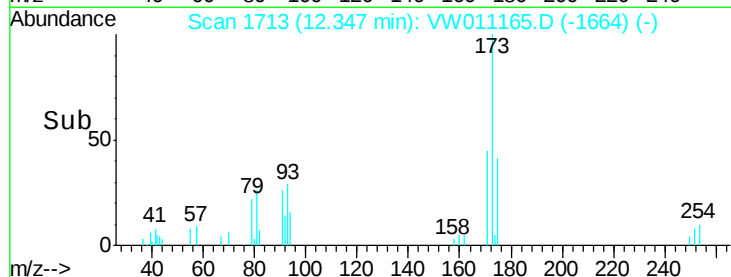
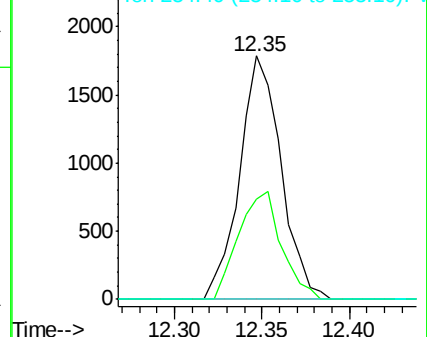
APPROVED

MMDadoda

7/9/2019 4:13:20 PM



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

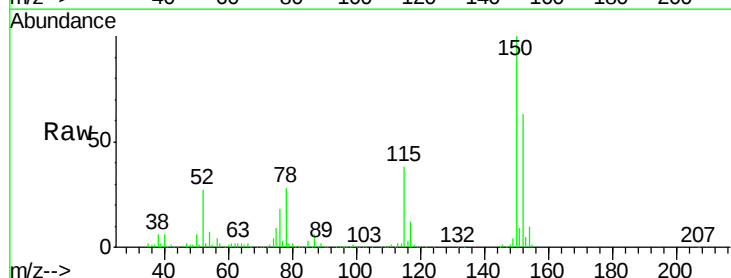
Tgt Ion:152 Resp: 161112

Ion Ratio Lower Upper

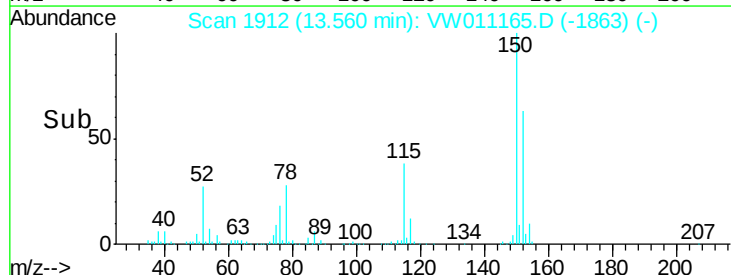
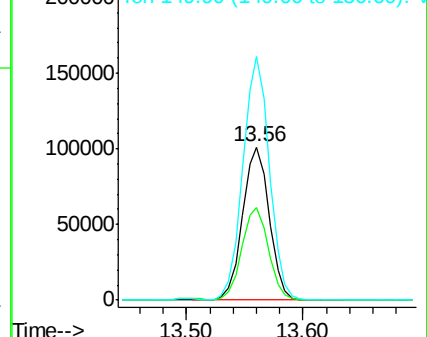
152 100

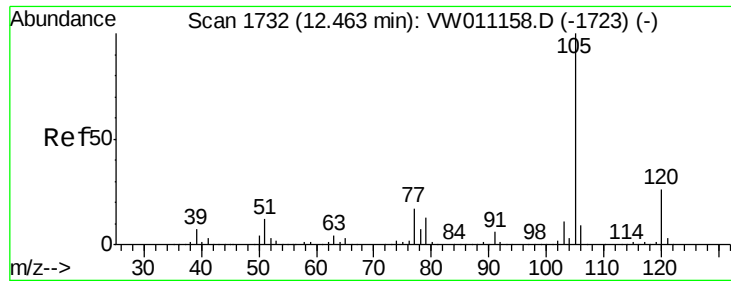
115 60.5 30.1 90.3

150 158.7 0.0 346.0



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





#73

Isopropylbenzene

Concen: 2.529 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion:105 Resp: 30460

Ion Ratio Lower Upper

105 100

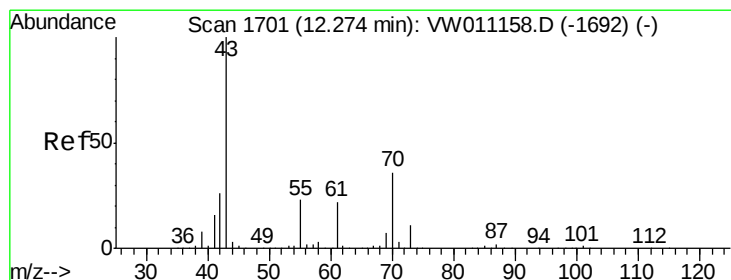
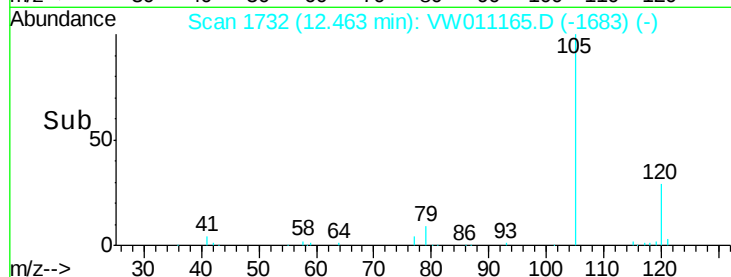
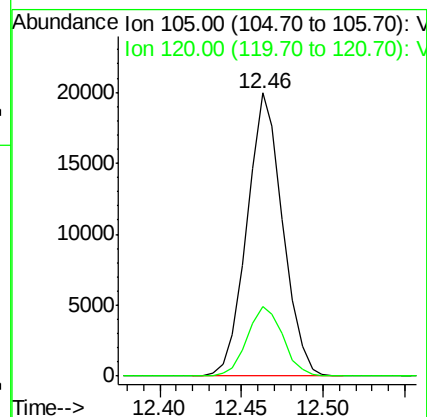
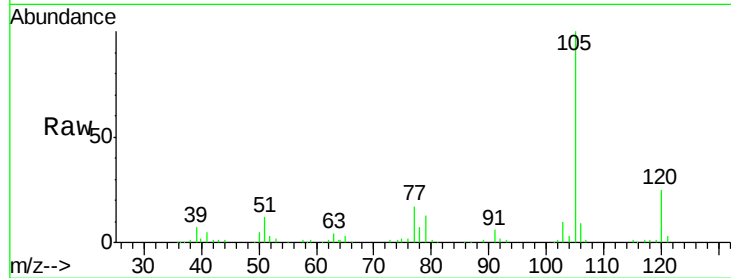
120 24.8 12.8 38.3

Manual Integrations

APPROVED

MMDadoda

7/9/2019 4:13:20 PM



#74

N-ethyl acetate

Concen: 2.255 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

Tgt Ion: 43 Resp: 9457

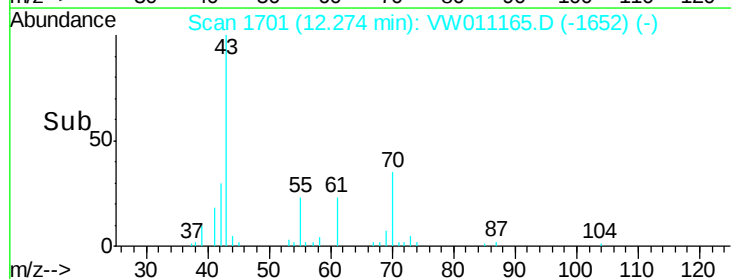
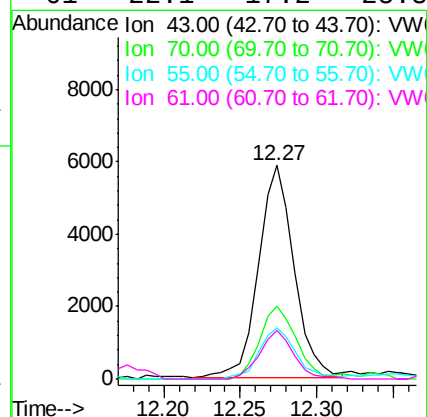
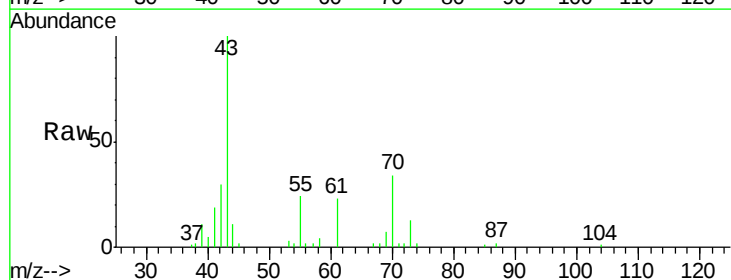
Ion Ratio Lower Upper

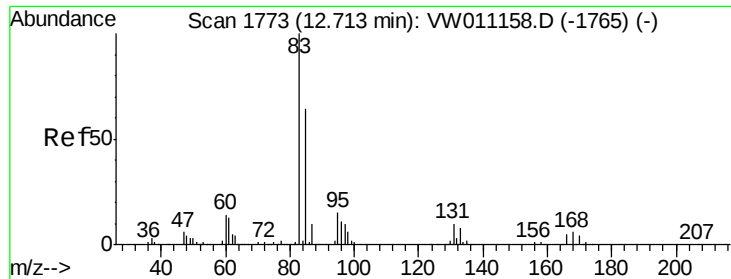
43 100

70 36.7 28.5 42.7

55 24.8 18.1 27.1

61 22.1 17.2 25.8





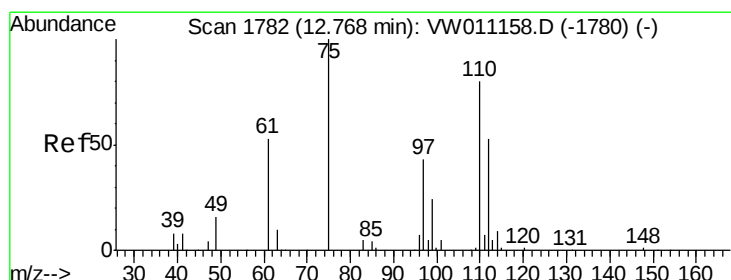
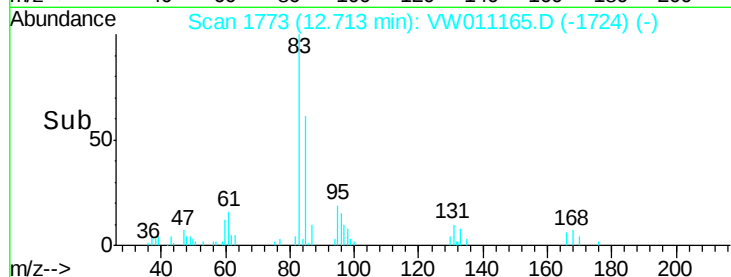
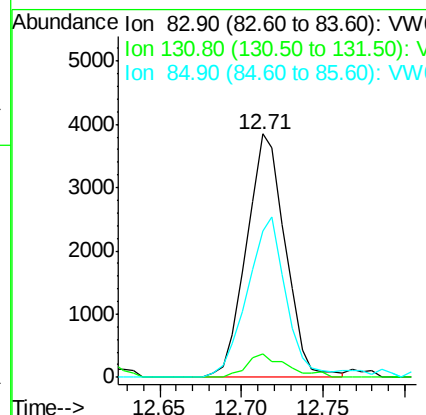
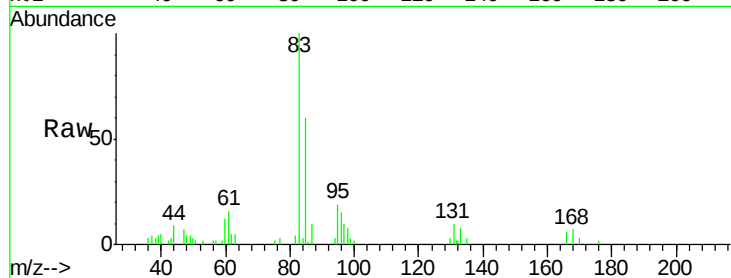
#75
 1,1,2,2-Tetrachloroethane
 Concen: 2.583 ug/l
 RT: 12.71 min Scan# 1773
 Delta R.T. -0.00 min
 Lab File: VW011165.D
 Acq: 08 Jul 2019 17:13

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	15.0
85	65.7	31.6	94.8

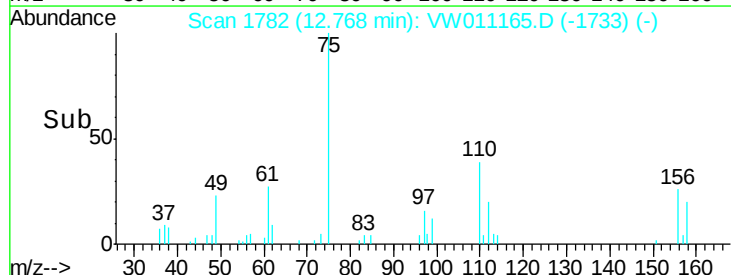
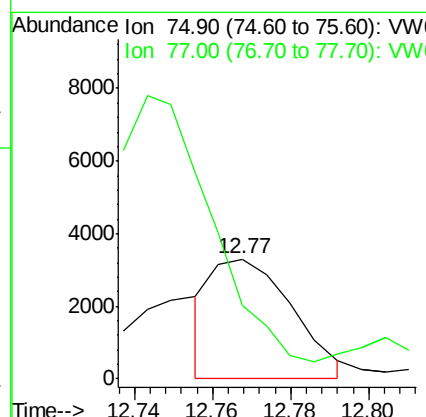
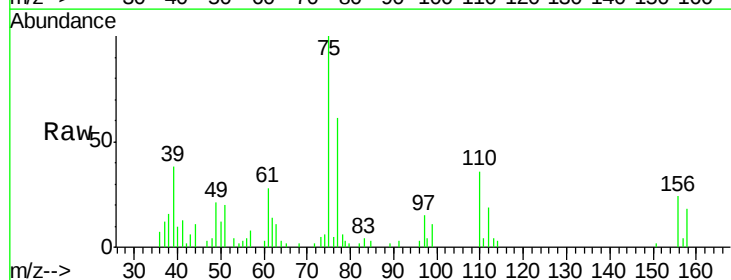
Manual Integrations
 APPROVED

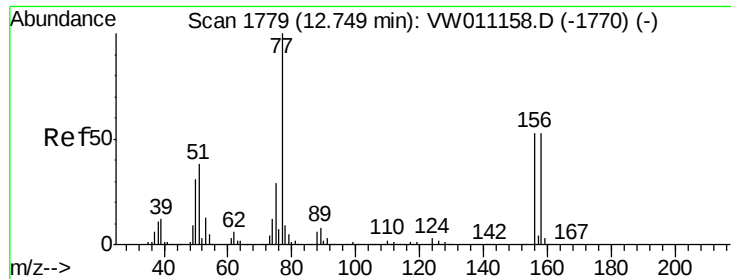
MMDadoda
 7/9/2019 4:13:20 PM



#76
 1,2,3-Trichloropropane
 Concen: 2.558 ug/l m
 RT: 12.77 min Scan# 1782
 Delta R.T. -0.00 min
 Lab File: VW011165.D
 Acq: 08 Jul 2019 17:13

Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 2.642 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. 0.00 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

Instrument :

MSVOA_W

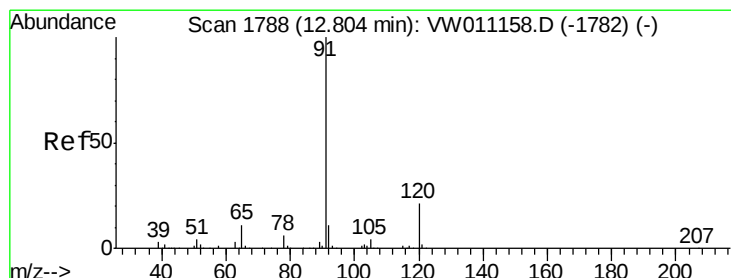
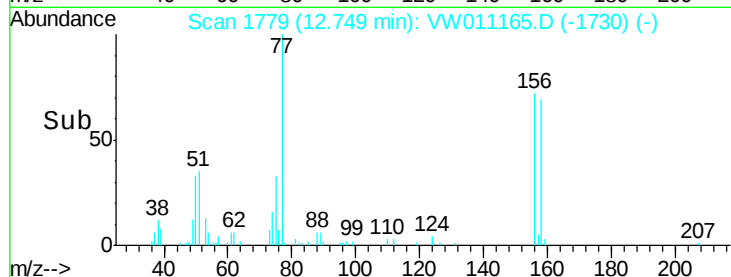
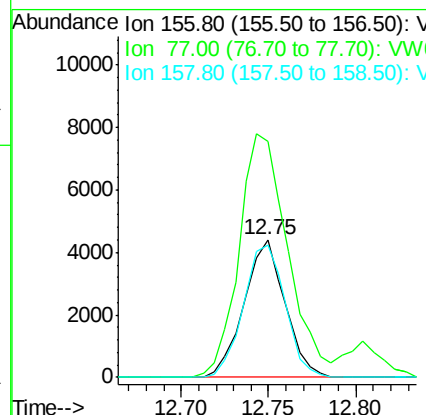
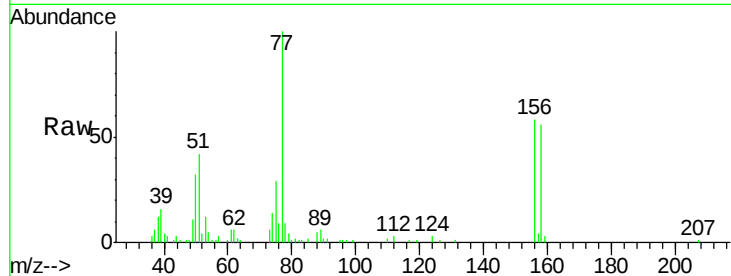
ClientSampled :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	211.0	109.0	327.0	
158	98.2	48.8	146.3	

Manual Integrations
APPROVED

MMDadoda
7/9/2019 4:13:20 PM



#78

n-propylbenzene

Concen: 2.572 ug/l

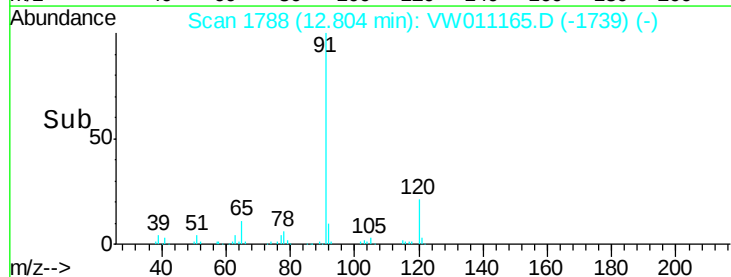
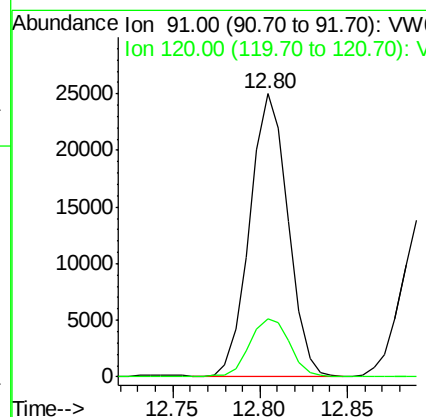
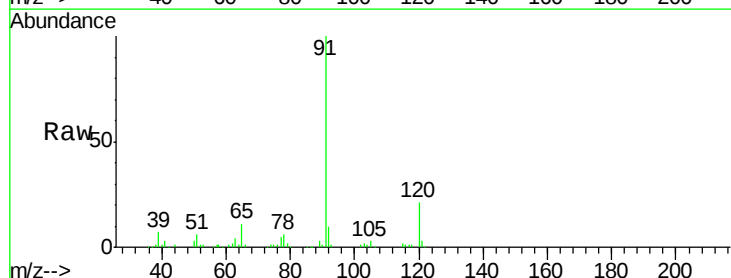
RT: 12.80 min Scan# 1788

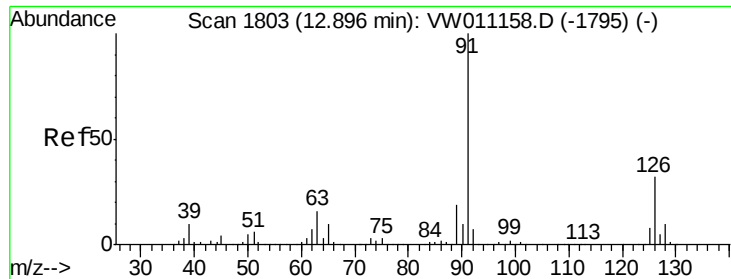
Delta R.T. 0.00 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	21.6	10.8	32.3	





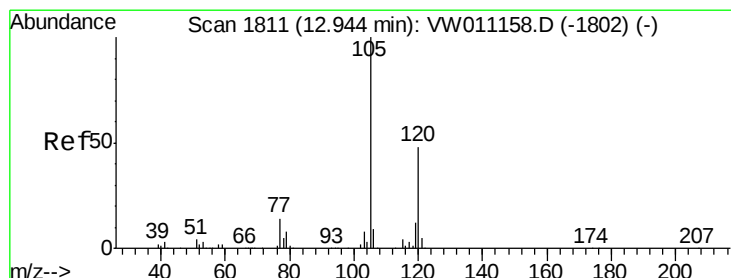
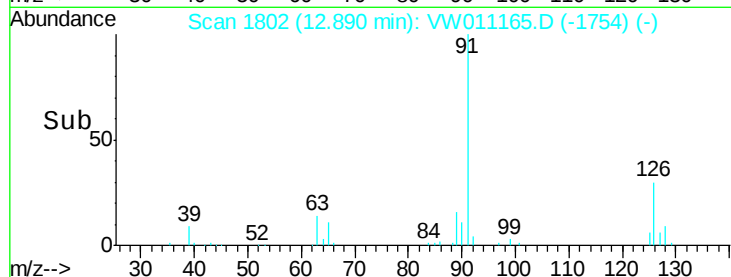
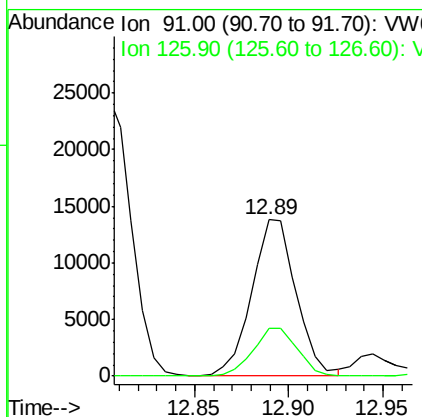
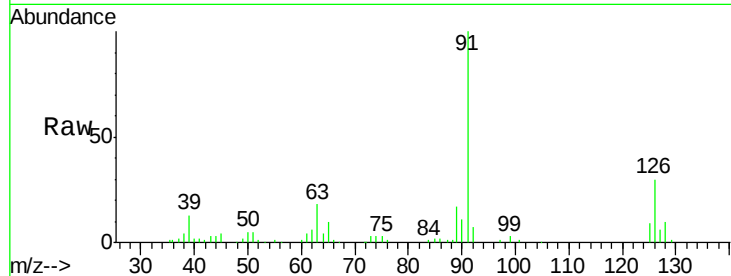
#79
 2-Chlorotoluene
 Concen: 2.633 ug/l
 RT: 12.89 min Scan# 1802
 Delta R.T. -0.01 min
 Lab File: VW011165.D
 Acq: 08 Jul 2019 17:13

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 91 Resp: 22476
 Ion Ratio Lower Upper
 91 100
 126 30.9 15.8 47.3

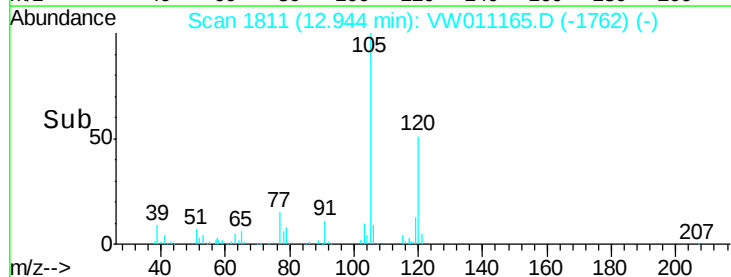
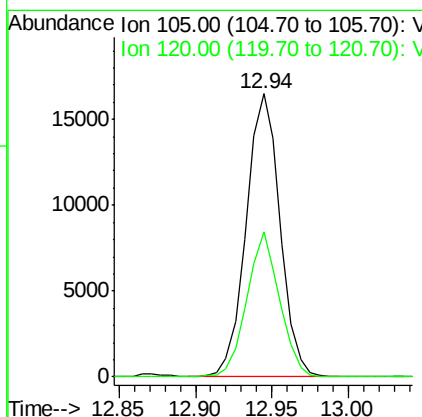
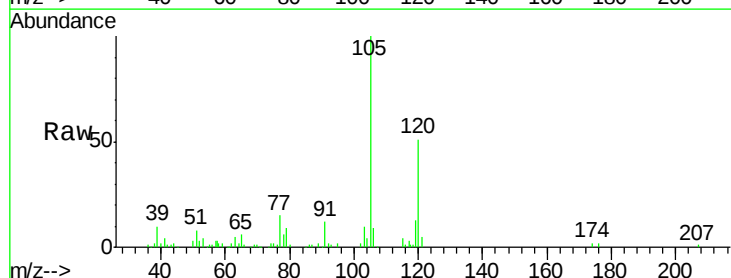
Manual Integrations
 APPROVED

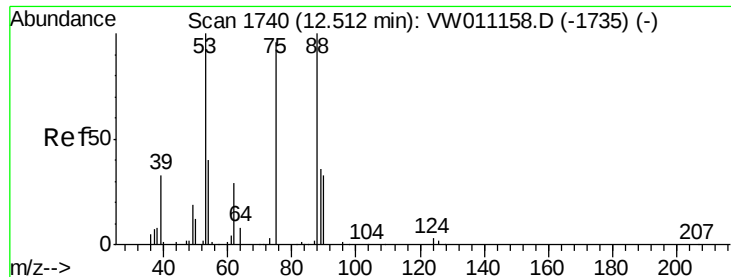
MMDadoda
 7/9/2019 4:13:20 PM



#80
 1,3,5-Trimethylbenzene
 Concen: 2.473 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. -0.00 min
 Lab File: VW011165.D
 Acq: 08 Jul 2019 17:13

Tgt Ion: 105 Resp: 25299
 Ion Ratio Lower Upper
 105 100
 120 49.6 24.1 72.2





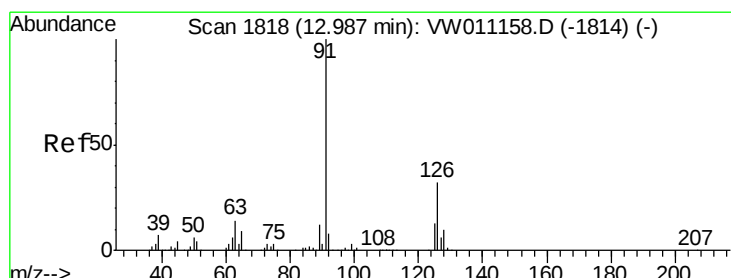
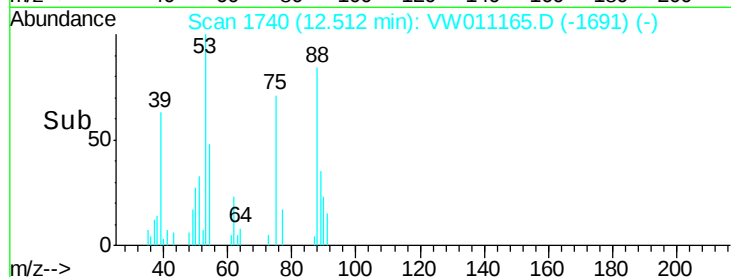
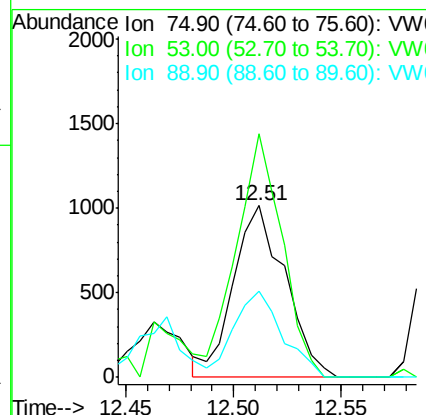
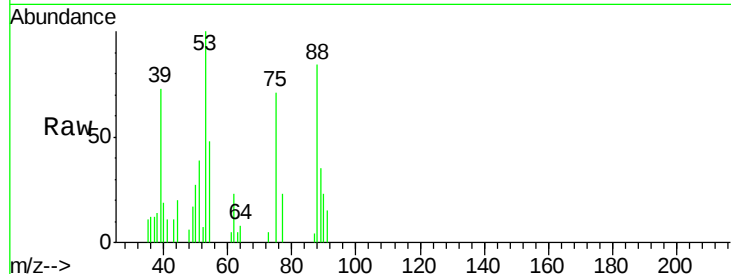
#81
trans-1,4-Dichloro-2-butene
Concen: 2.051 ug/l m
RT: 12.51 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	89.8	134.6#
89	2.0	34.3	51.5#

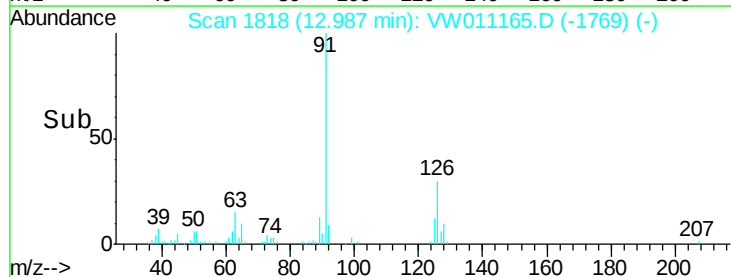
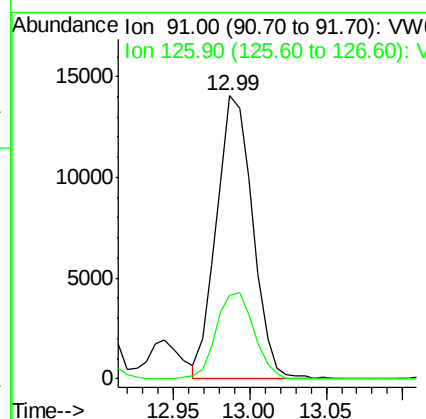
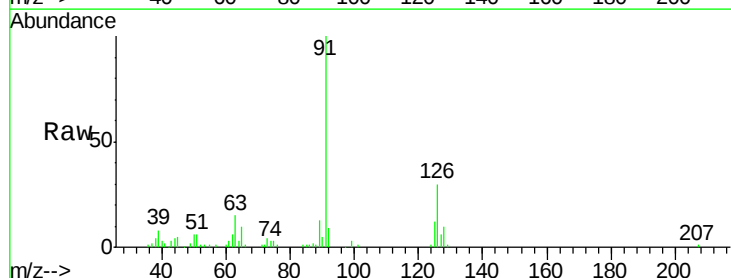
Manual Integrations
APPROVED

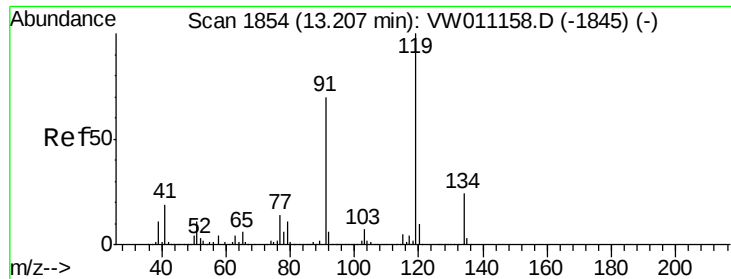
MMDadoda
7/9/2019 4:13:20 PM



#82
4-Chlorotoluene
Concen: 2.607 ug/l
RT: 12.99 min Scan# 1818
Delta R.T. 0.00 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.9	15.7	47.1





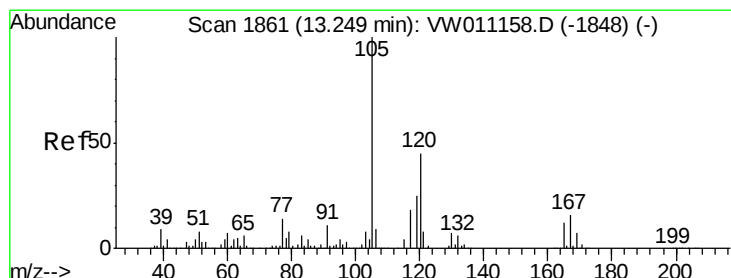
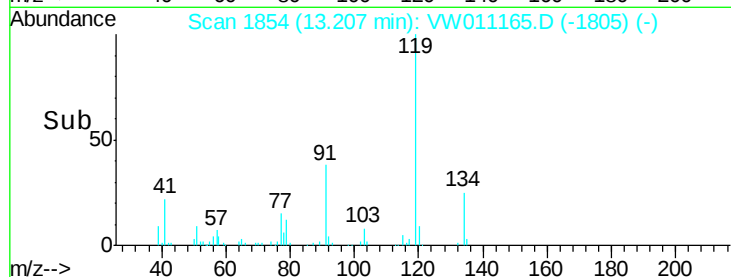
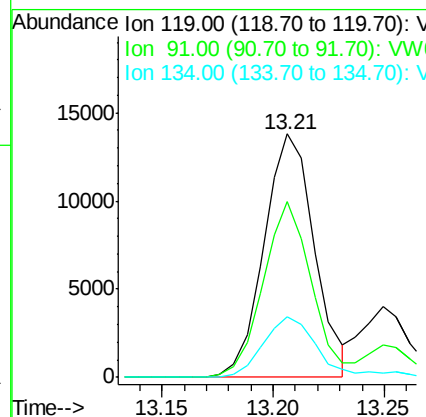
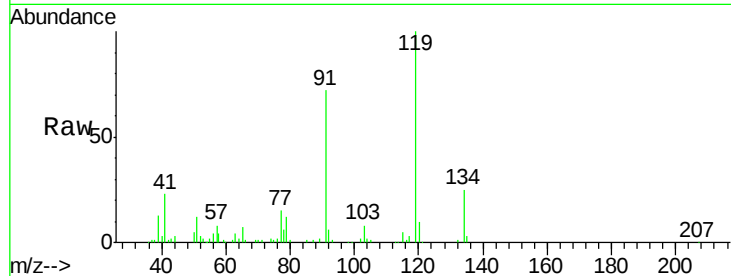
#83
tert-Butylbenzene
Concen: 2.538 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
119	100		
91	68.5	35.4	106.3
134	27.2	13.4	40.2

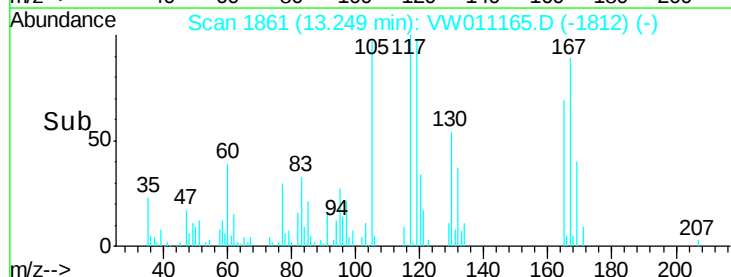
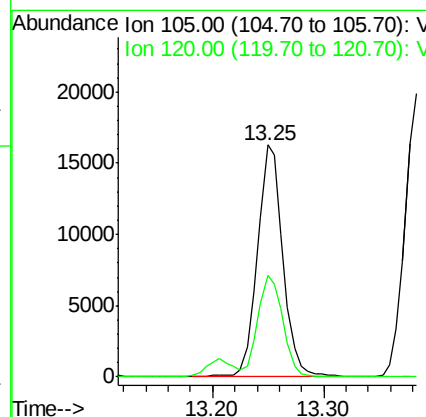
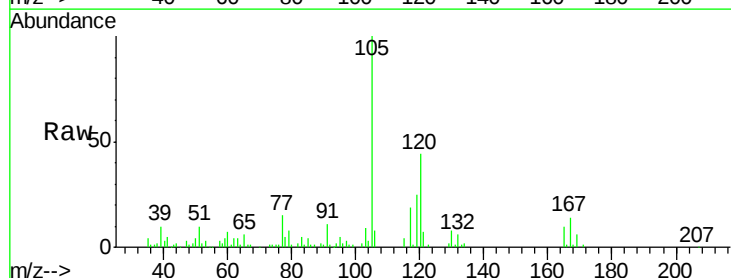
Manual Integrations
APPROVED

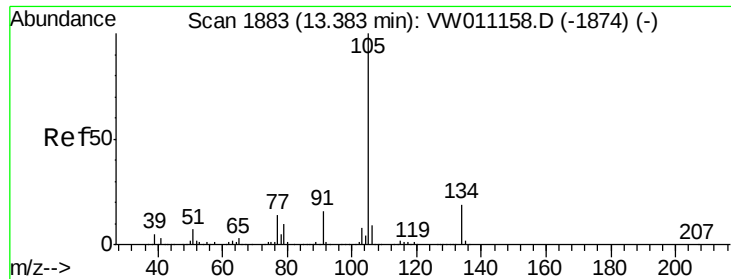
MMDadoda
7/9/2019 4:13:20 PM



#84
1,2,4-Trimethylbenzene
Concen: 2.519 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.0	22.3	66.9





#85

sec-Butylbenzene

Concen: 2.525 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion:105 Resp: 31087

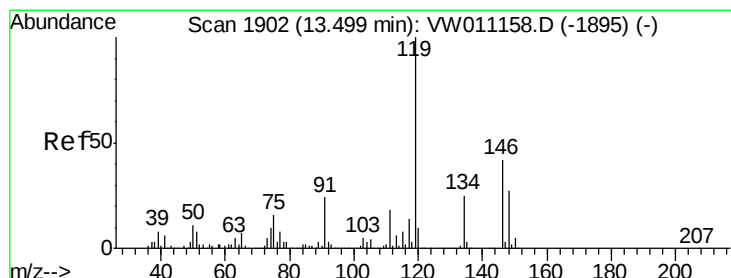
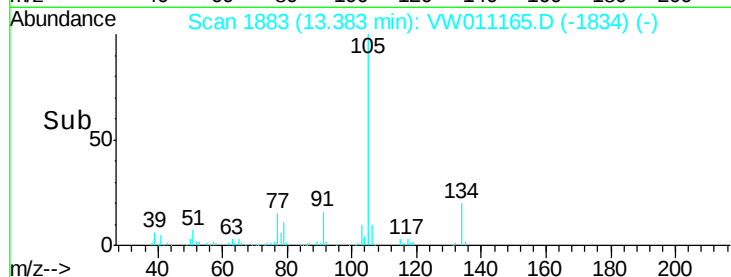
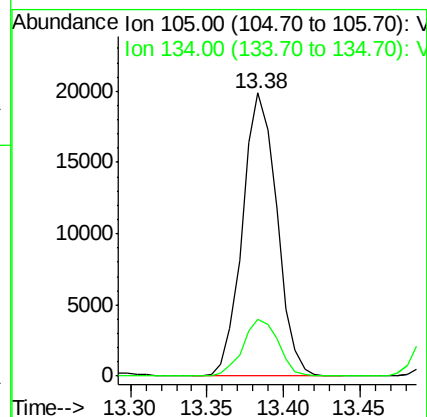
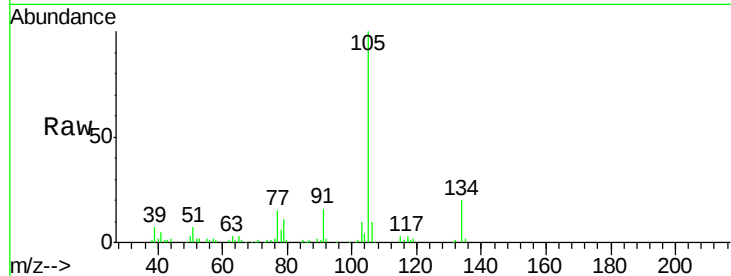
Ion Ratio Lower Upper

105 100

134 20.5 9.7 28.9

Manual Integrations
APPROVED

MMDadoda
7/9/2019 4:13:20 PM



#86

p-Isopropyltoluene

Concen: 2.505 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

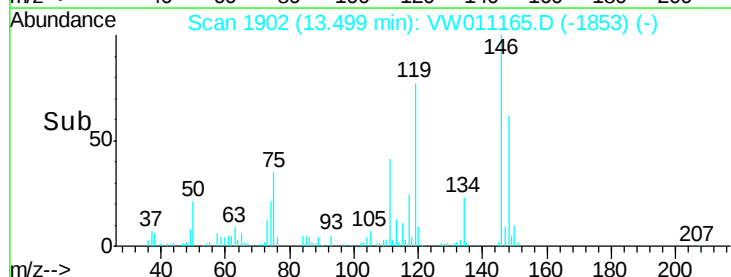
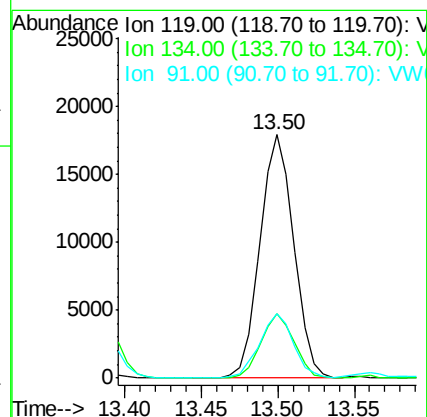
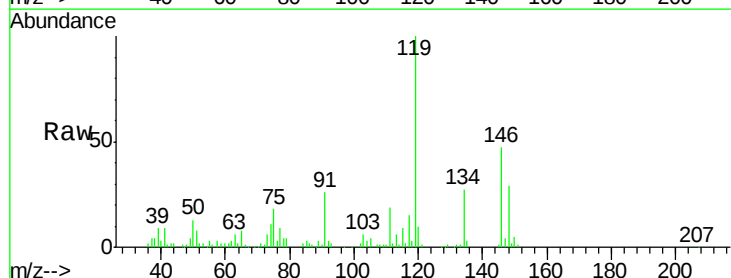
Tgt Ion:119 Resp: 27663

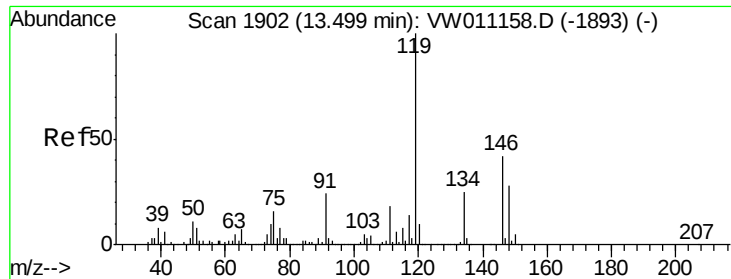
Ion Ratio Lower Upper

119 100

134 25.8 12.9 38.6

91 26.5 12.3 36.8





#87

1,3-Dichlorobenzene

Concen: 2.728 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

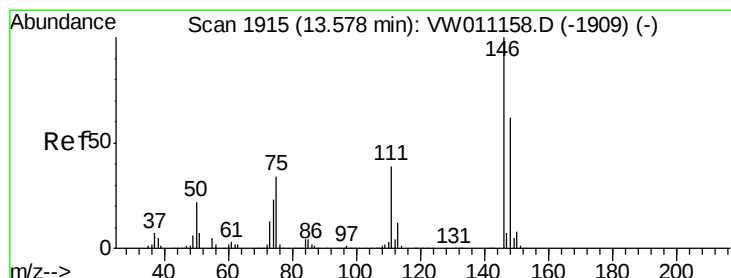
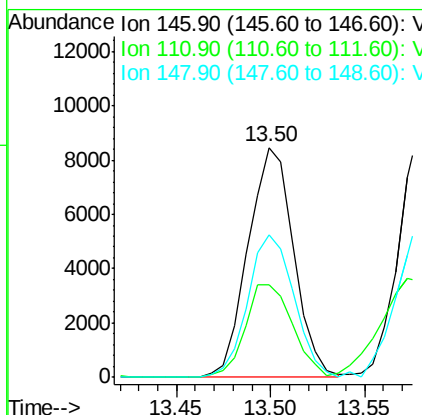
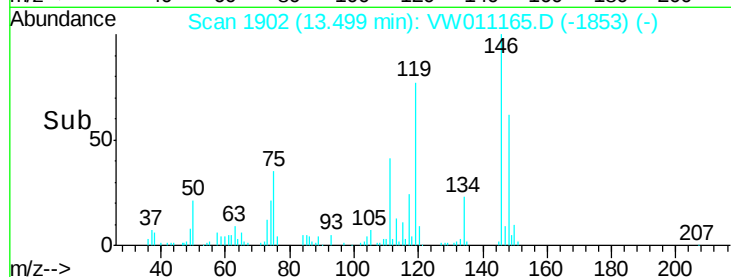
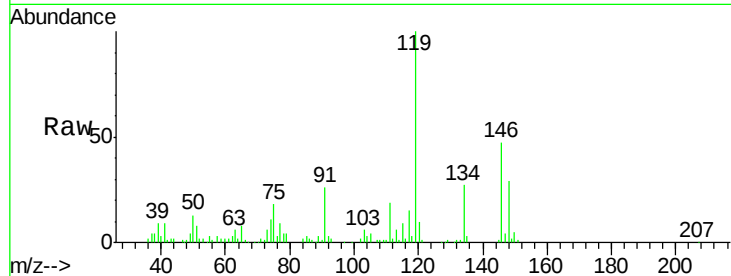
Instrument :
MSVOA_W

ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.3	21.1	63.1
148	62.6	32.6	97.7

Manual Integrations
APPROVED

MMDadoda
7/9/2019 4:13:20 PM



#88

1,4-Dichlorobenzene

Concen: 2.774 ug/l

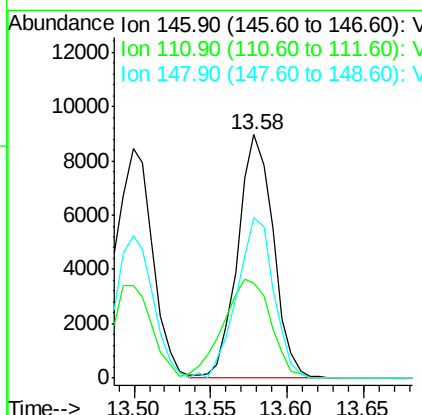
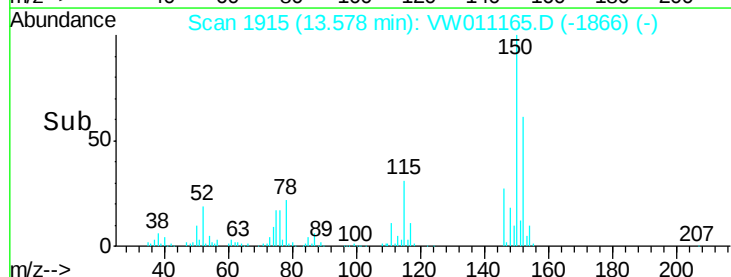
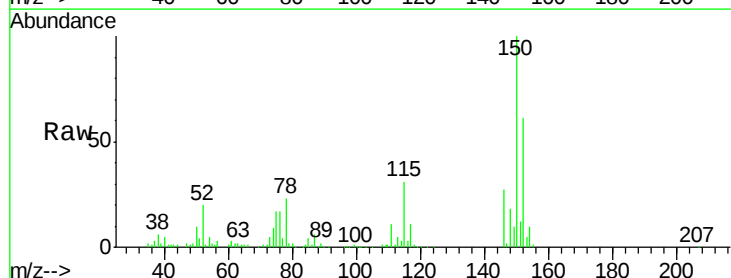
RT: 13.58 min Scan# 1915

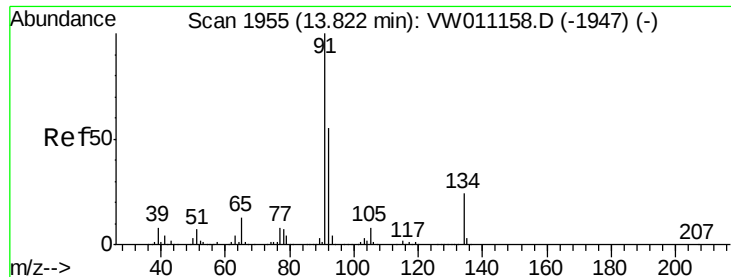
Delta R.T. 0.00 min

Lab File: VW011165.D

Acq: 08 Jul 2019 17:13

Tgt Ion	Ratio	Lower	Upper
146	100		
111	54.2	19.9	59.7
148	68.0	31.5	94.5





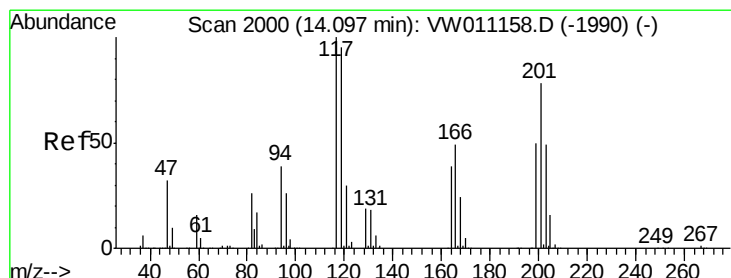
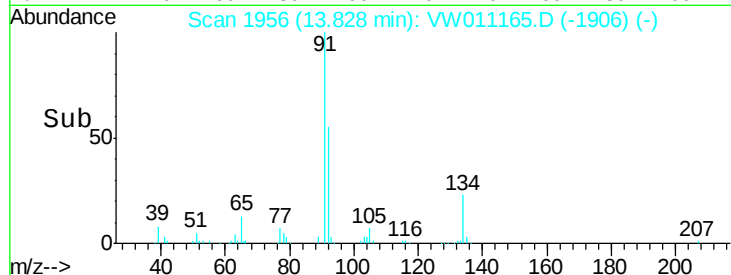
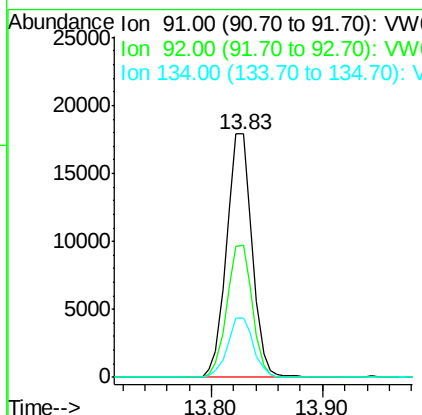
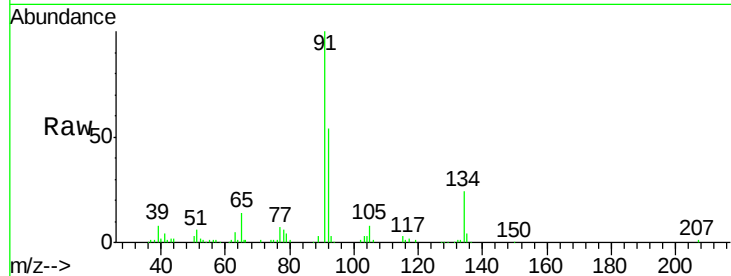
#89
n-Butylbenzene
Concen: 2.581 ug/l
RT: 13.83 min Scan# 1956
Delta R.T. 0.01 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.5	26.9	80.7
134	24.6	12.2	36.4

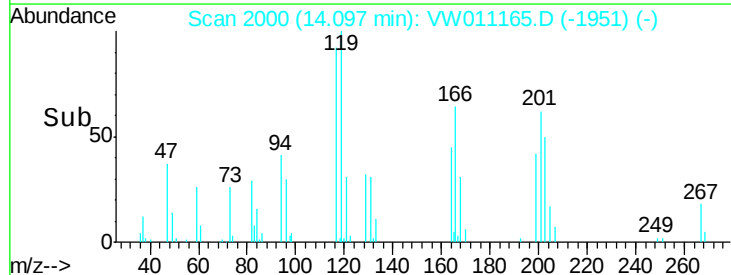
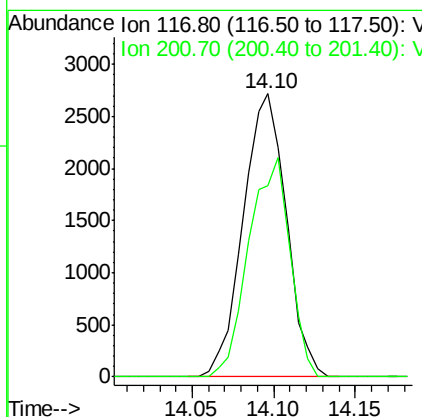
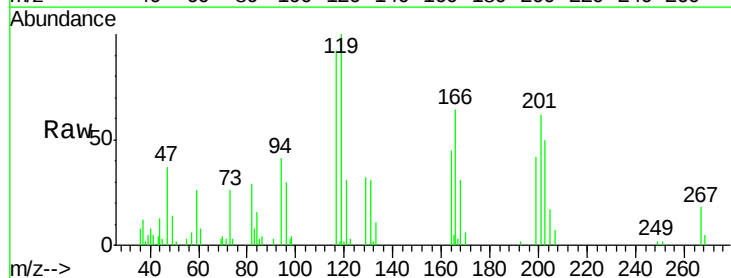
Manual Integrations
APPROVED

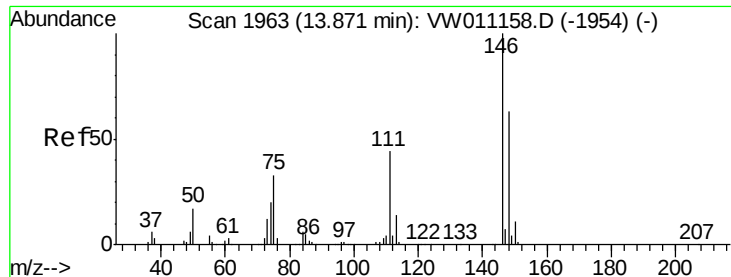
MMDadoda
7/9/2019 4:13:20 PM



#90
Hexachloroethane
Concen: 2.478 ug/l
RT: 14.10 min Scan# 2000
Delta R.T. 0.00 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Tgt Ion	Ratio	Lower	Upper
117	100		
201	73.6	38.3	114.8





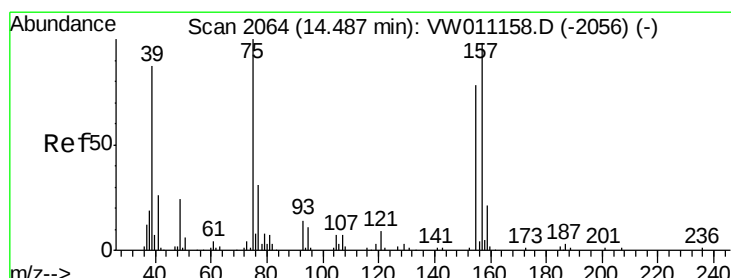
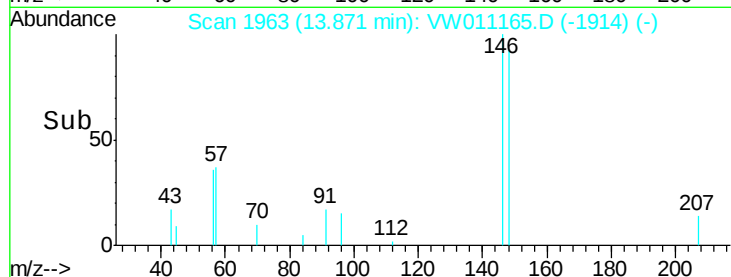
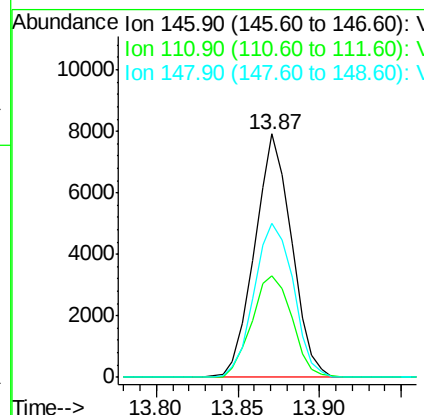
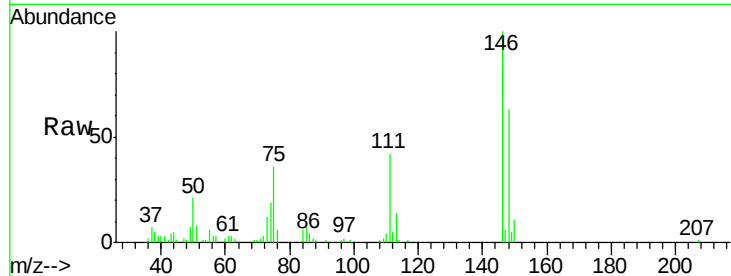
#91
 1,2-Dichlorobenzene
 Concen: 2.646 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW011165.D
 Acq: 08 Jul 2019 17:13

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.4	21.6	65.0
148	67.3	31.9	95.5

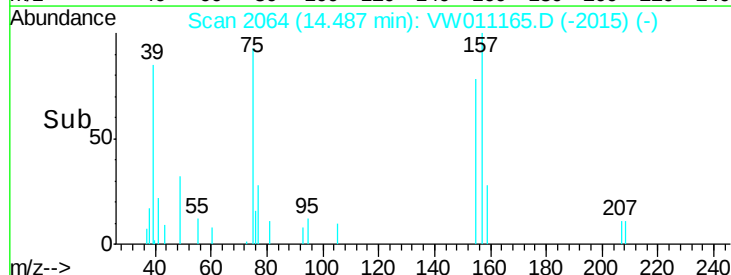
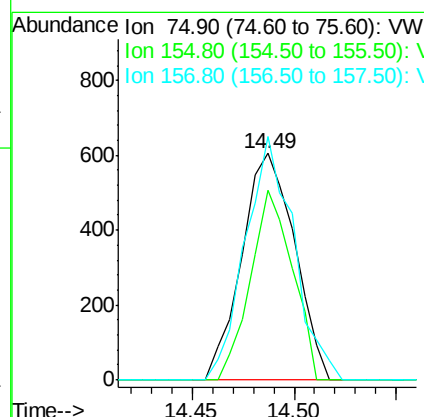
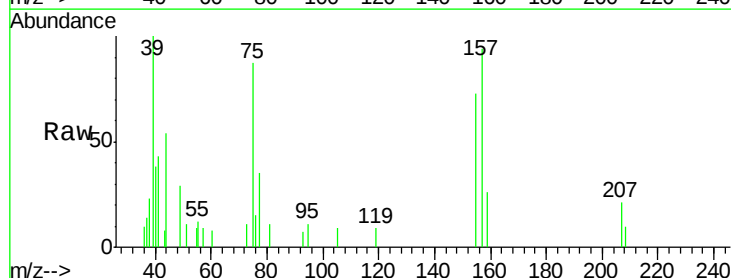
Manual Integrations
 APPROVED

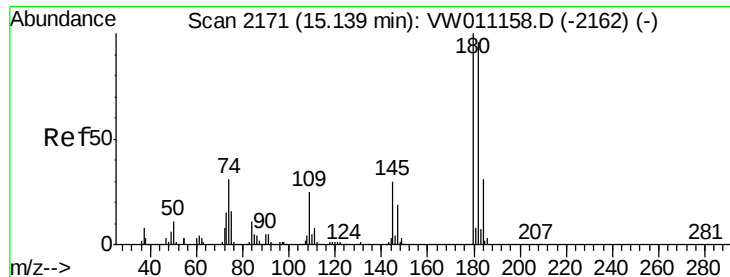
MMDadoda
 7/9/2019 4:13:20 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.485 ug/l
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VW011165.D
 Acq: 08 Jul 2019 17:13

Tgt Ion	Ratio	Lower	Upper
75	100		
155	66.7	37.1	111.3
157	98.2	48.5	145.6





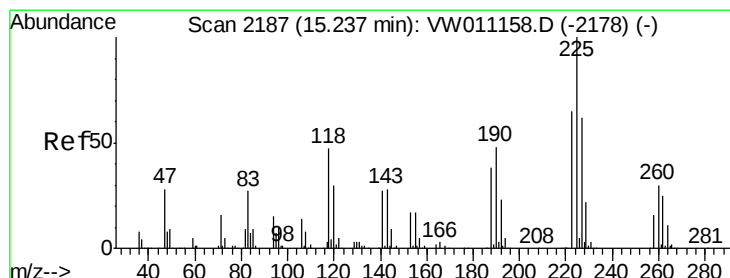
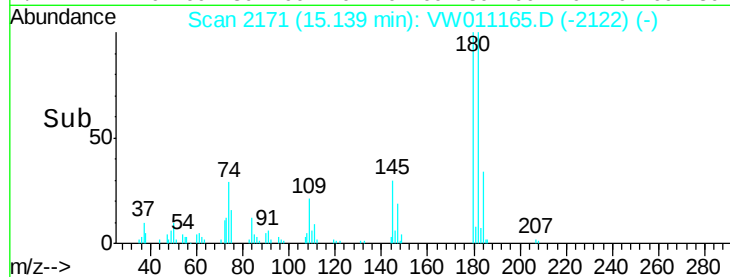
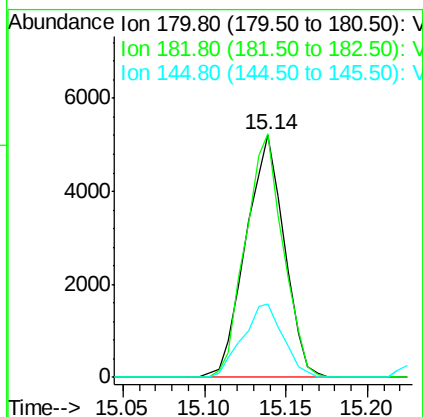
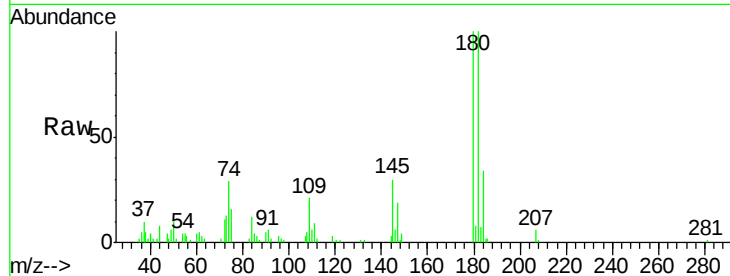
#93
 1,2,4-Trichlorobenzene
 Concen: 2.630 ug/l
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW011165.D
 Acq: 08 Jul 2019 17:13

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Resp	Lower	Upper
180	100	8545		
182	98.7	48.3	144.9	
145	32.1	15.5	46.5	

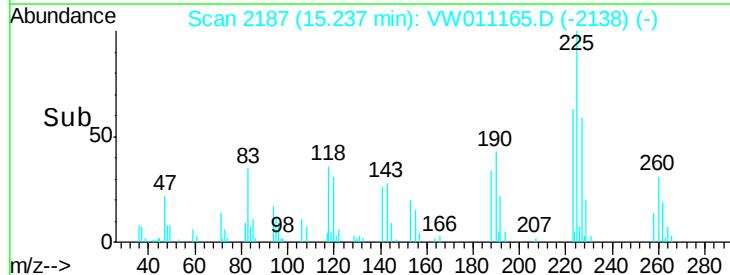
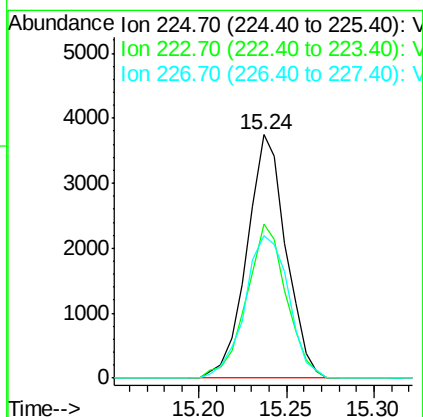
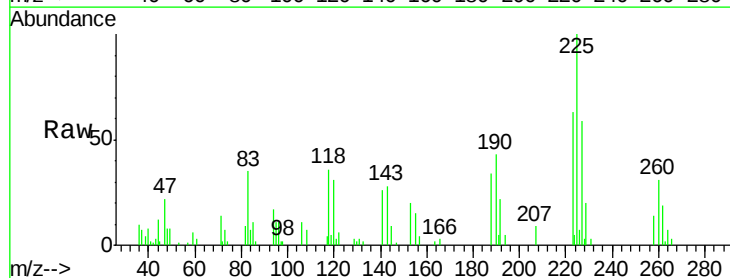
Manual Integrations
 APPROVED

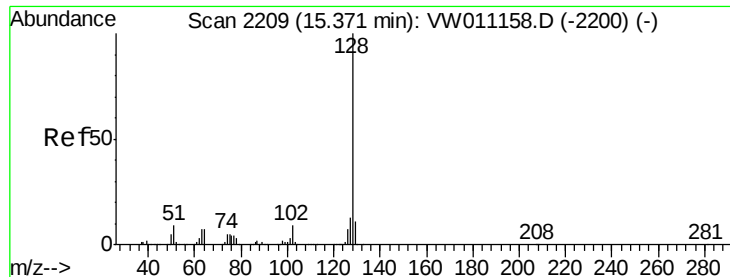
MMDadoda
 7/9/2019 4:13:20 PM



#94
 Hexachlorobutadiene
 Concen: 2.917 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. -0.00 min
 Lab File: VW011165.D
 Acq: 08 Jul 2019 17:13

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	5820		
223	64.5	31.6	95.0	
227	65.5	32.0	96.0	





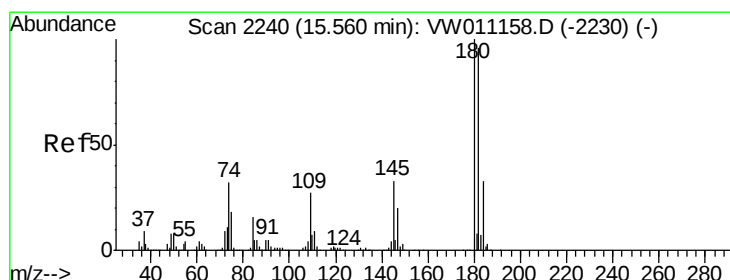
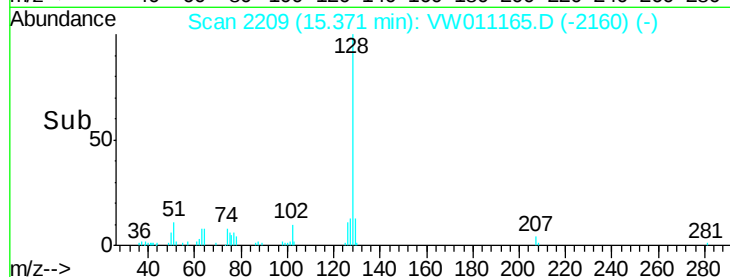
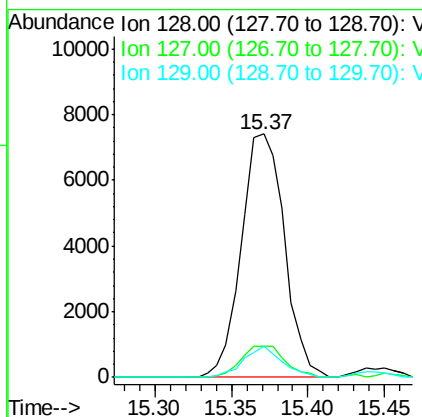
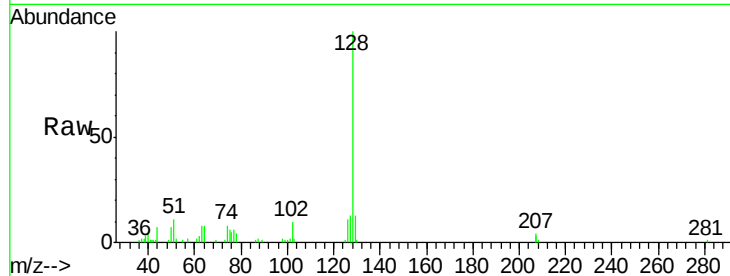
#95
Naphthalene
Concen: 2.331 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.6	16.0
129	11.2	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
7/9/2019 4:13:20 PM



#96
1,2,3-Trichlorobenzene
Concen: 2.797 ug/l
RT: 15.57 min Scan# 2241
Delta R.T. 0.01 min
Lab File: VW011165.D
Acq: 08 Jul 2019 17:13

Tgt Ion	Ratio	Lower	Upper
180	100		
182	89.4	47.6	142.8
145	31.0	16.5	49.5

