

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW100818\
 Data File : VW005899.D
 Acq On : 08 Oct 2018 16:51
 Operator : SY/AP
 Sample : J5164-02LOQ
 Misc : 5.00G/5ML/MSVOA_W/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

Manual Integrations
 APPROVED

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 10/9/2018 4:26:28 PM

Quant Time: Oct 09 07:16:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W100818S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 09 02:14:04 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	302572	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	436814	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	393273	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	218308	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	141830	48.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.58%	
35) Dibromofluoromethane	7.88	113	139840	50.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.28%	
50) Toluene-d8	10.33	98	543739	50.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.34%	
62) 4-Bromofluorobenzene	12.62	95	201272	49.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.60%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	12364	8.34	ug/l	91
3) Chloromethane	2.21	50	17491	10.03	ug/l	99
4) Vinyl Chloride	2.37	62	27697	10.00	ug/l	99
5) Bromomethane	2.79	94	22442	10.27	ug/l	95
6) Chloroethane	2.93	64	18109	10.27	ug/l	92
7) Trichlorofluoromethane	3.26	101	21951	9.99	ug/l	96
8) Diethyl Ether	3.68	74	13433	9.93	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	4.06	101	26836	9.68	ug/l	98
10) Methyl Iodide	4.27	142	42014	9.26	ug/l	100
11) Tert butyl alcohol	5.23	59	10023	46.56	ug/l #	92
12) 1,1-Dichloroethene	4.04	96	24560	9.22	ug/l	95
13) Acrolein	3.90	56	9206	47.99	ug/l	91
14) Allyl chloride	4.67	41	40020	8.81	ug/l	100
15) Acrylonitrile	5.38	53	28489	48.40	ug/l	99
16) Acetone	4.14	43	32067	54.66	ug/l	100
17) Carbon Disulfide	4.37	76	69528	8.63	ug/l	100
18) Methyl Acetate	4.68	43	13965	9.43	ug/l	99
19) Methyl tert-butyl Ether	5.43	73	40628	9.80	ug/l	97
20) Methylene Chloride	4.92	84	32555	11.08	ug/l	98
21) trans-1,2-Dichloroethene	5.42	96	27519	9.48	ug/l	93
22) Diisopropyl ether	6.31	45	77963	9.18	ug/l	95
23) Vinyl Acetate	6.26	43	245676	47.01	ug/l	99
24) 1,1-Dichloroethane	6.21	63	48175	9.27	ug/l	97
25) 2-Butanone	7.18	43	42383	50.79	ug/l	97
26) 2,2-Dichloropropane	7.16	77	36022	9.85	ug/l	100
27) cis-1,2-Dichloroethene	7.17	96	30921	9.42	ug/l	99
28) Bromochloromethane	7.51	49	18898	9.85	ug/l	98
29) Tetrahydrofuran	7.54	42	25376	48.10	ug/l	96
30) Chloroform	7.68	83	50679	9.50	ug/l	99
31) Cyclohexane	7.95	56	49659	9.66	ug/l #	90
32) 1,1,1-Trichloroethane	7.87	97	45112	9.49	ug/l	97
36) 1,1-Dichloropropene	8.09	75	39173	9.36	ug/l	98
37) Ethyl Acetate	7.26	43	15321	8.64	ug/l #	90
38) Carbon Tetrachloride	8.07	117	43524	9.68	ug/l	100

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 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	52735	9.55	ug/l	99
40) Benzene	8.32	78	110444	9.64	ug/l	99
41) Methacrylonitrile	7.49	41	11110	10.01	ug/l	98
42) 1,2-Dichloroethane	8.40	62	32768	9.47	ug/l	98
43) Isopropyl Acetate	8.43	43	35817	9.67	ug/l	100
44) Trichloroethene	9.09	130	32266	9.71	ug/l	100
45) 1,2-Dichloropropane	9.37	63	26879	9.37	ug/l	99
46) Dibromomethane	9.46	93	15201	9.65	ug/l	98
47) Bromodichloromethane	9.65	83	37611	9.48	ug/l	96
48) Methyl methacrylate	9.44	41	17104	9.70	ug/l	99
49) 1,4-Dioxane	9.47	88	4705	196.55	ug/l #	93
51) 4-Methyl-2-Pentanone	10.21	43	91029	50.49	ug/l	99
52) Toluene	10.39	92	72477	9.63	ug/l	100
53) t-1,3-Dichloropropene	10.61	75	38845	9.37	ug/l	97
54) cis-1,3-Dichloropropene	10.08	75	43913	9.43	ug/l	95
55) 1,1,2-Trichloroethane	10.79	97	20984	9.61	ug/l	98
56) Ethyl methacrylate	10.65	69	28079	9.54	ug/l	98
57) 1,3-Dichloropropane	10.93	76	35228	9.59	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.93	63	58636	48.98	ug/l	100
59) 2-Hexanone	10.98	43	65238	50.46	ug/l	99
60) Dibromochloromethane	11.13	129	26858	9.53	ug/l	99
61) 1,2-Dibromoethane	11.24	107	21075	9.66	ug/l	98
64) Tetrachloroethene	10.87	164	27963	9.55	ug/l	99
65) Chlorobenzene	11.66	112	81547	9.68	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.73	131	30075	9.74	ug/l	98
67) Ethyl Benzene	11.73	91	143196	9.62	ug/l	100
68) m/p-Xylenes	11.84	106	110995	19.09	ug/l	100
69) o-Xylene	12.17	106	52569	9.44	ug/l	99
70) Styrene	12.18	104	88208	9.55	ug/l	99
71) Bromoform	12.35	173	17328	9.42	ug/l #	99
73) Isopropylbenzene	12.47	105	149658	9.39	ug/l	100
74) N-amyl acetate	12.27	43	35321	9.33	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.72	83	25399	9.72	ug/l	99
76) 1,2,3-Trichloropropane	12.77	75	19372m	9.93	ug/l	
77) Bromobenzene	12.75	156	36886	9.77	ug/l	97
78) n-propylbenzene	12.81	91	178267	9.51	ug/l	99
79) 2-Chlorotoluene	12.90	91	98946	9.35	ug/l	99
80) 1,3,5-Trimethylbenzene	12.95	105	126726	9.41	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.52	75	8391	9.08	ug/l	97
82) 4-Chlorotoluene	12.99	91	104567	9.39	ug/l	99
83) tert-Butylbenzene	13.21	119	114356	9.55	ug/l	99
84) 1,2,4-Trimethylbenzene	13.26	105	128343	9.45	ug/l	99
85) sec-Butylbenzene	13.39	105	160565	9.55	ug/l	99
86) p-Isopropyltoluene	13.51	119	144570	9.57	ug/l	99
87) 1,3-Dichlorobenzene	13.51	146	73504	9.79	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	73427	9.85	ug/l	98
89) n-Butylbenzene	13.83	91	136072	9.55	ug/l	99
90) Hexachloroethane	14.10	117	25411	8.94	ug/l	96
91) 1,2-Dichlorobenzene	13.88	146	64990	9.75	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.49	75	4571	9.39	ug/l	94

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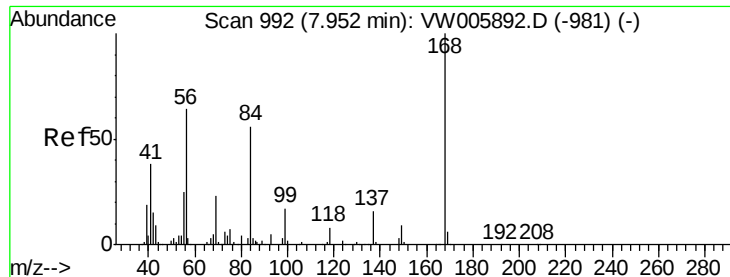
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	51249	9.92	ug/l	99
94) Hexachlorobutadiene	15.24	225	32290	10.01	ug/l	98
95) Naphthalene	15.38	128	89667	10.07	ug/l	100
96) 1,2,3-Trichlorobenzene	15.57	180	44203	9.88	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion: 168 Resp: 302572

Ion Ratio Lower Upper

168 100

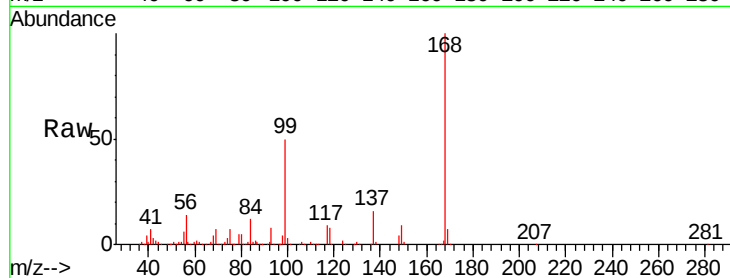
99 50.3 40.9 61.3

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

150000

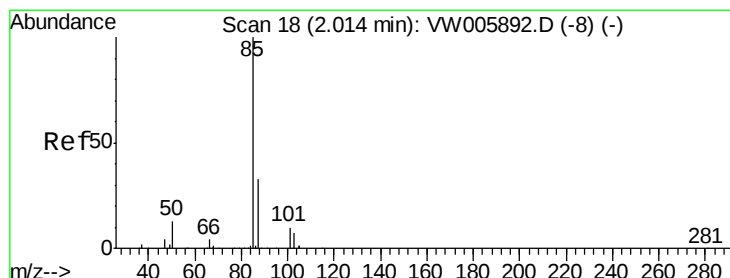
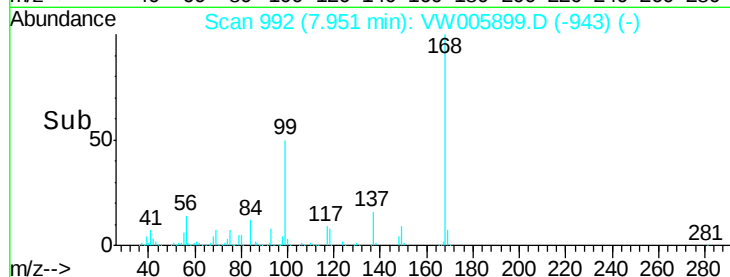
100000

50000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 8.34 ug/l

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW005899.D

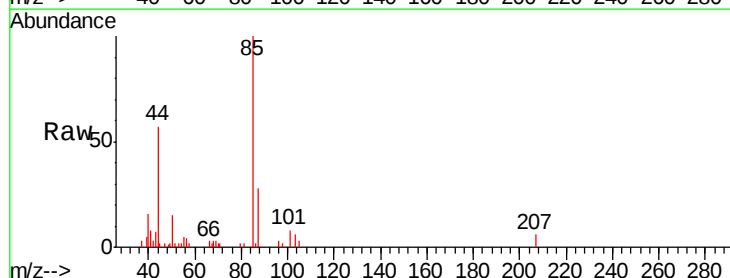
Acq: 08 Oct 2018 16:51

Tgt Ion: 85 Resp: 12364

Ion Ratio Lower Upper

85 100

87 28.2 16.6 49.8



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

4000

3000

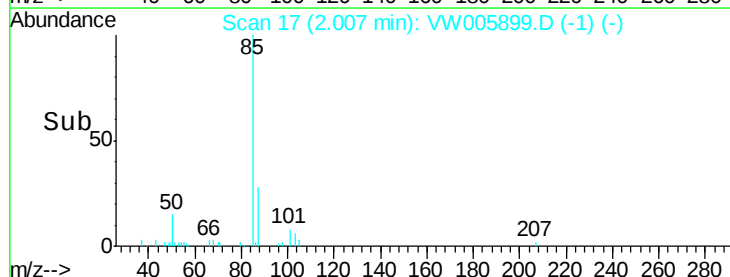
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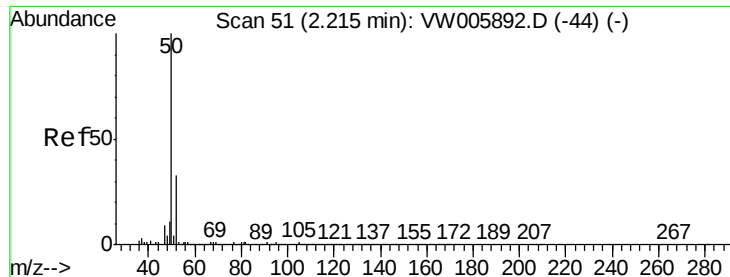
1000

0

1.90 1.95 2.00 2.05 2.10

Time-->





#3

Chloromethane

Concen: 10.03 ug/l

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion: 50 Resp: 17491

Ion Ratio Lower Upper

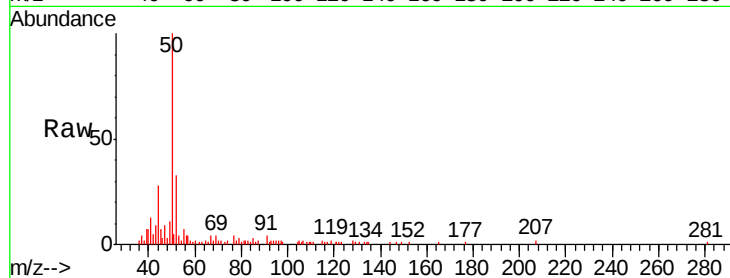
50 100

52 33.1 26.7 40.1

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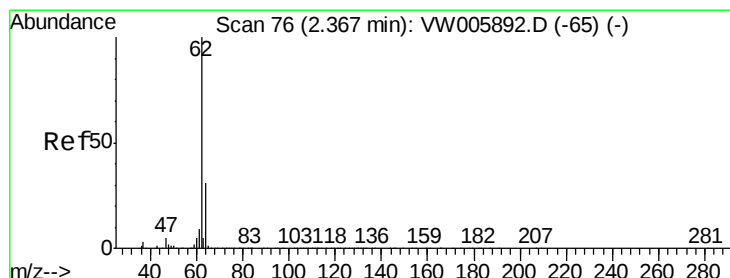
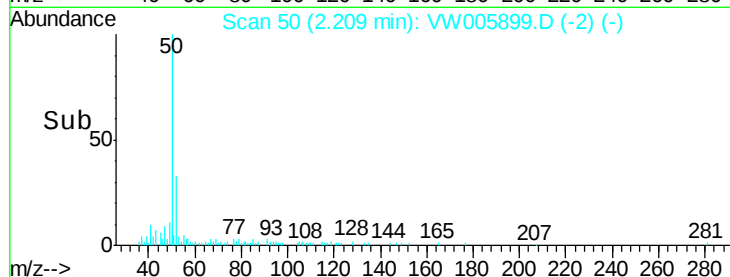
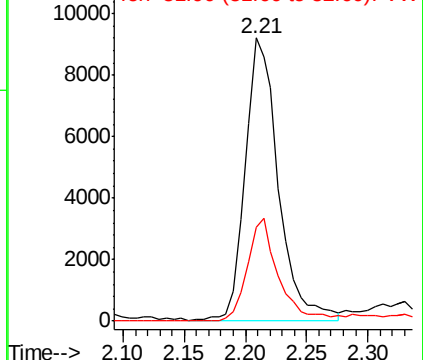
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Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW



#4

Vinyl Chloride

Concen: 10.00 ug/l

RT: 2.37 min Scan# 76

Delta R.T. -0.00 min

Lab File: VW005899.D

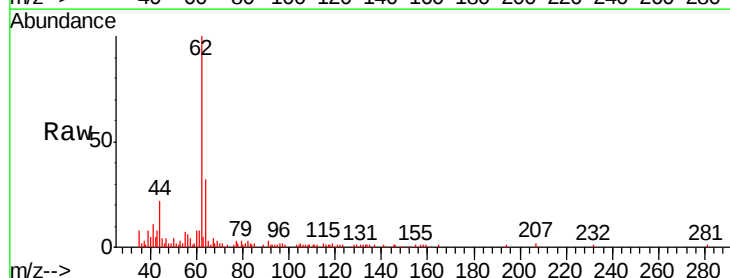
Acq: 08 Oct 2018 16:51

Tgt Ion: 62 Resp: 27697

Ion Ratio Lower Upper

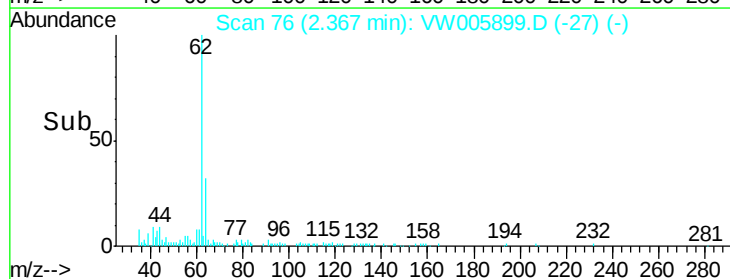
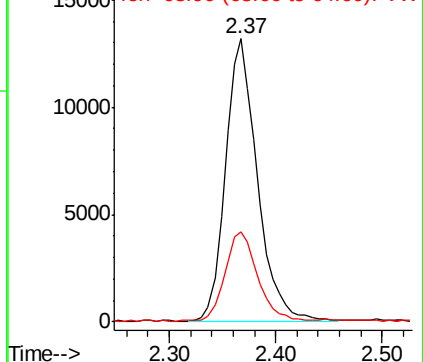
62 100

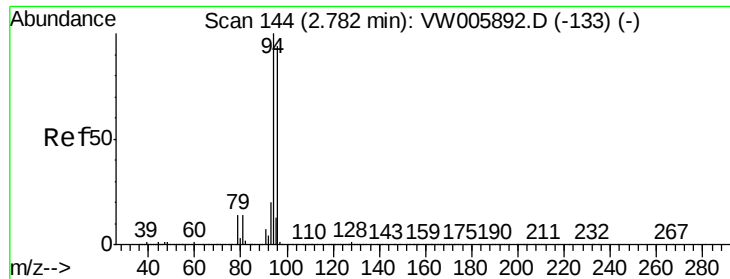
64 31.5 24.6 36.8



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW





#5

Bromomethane

Concen: 10.27 ug/l

RT: 2.79 min Scan# 145

Delta R.T. 0.01 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion: 94 Resp: 22442

Ion Ratio Lower Upper

94 100

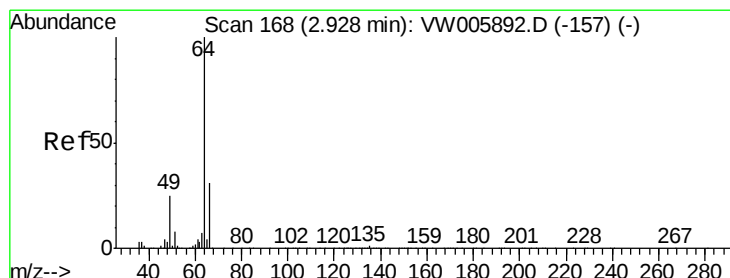
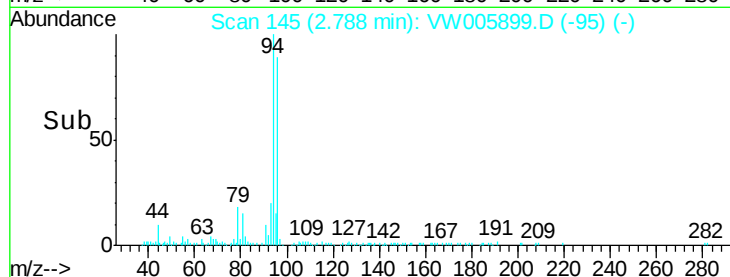
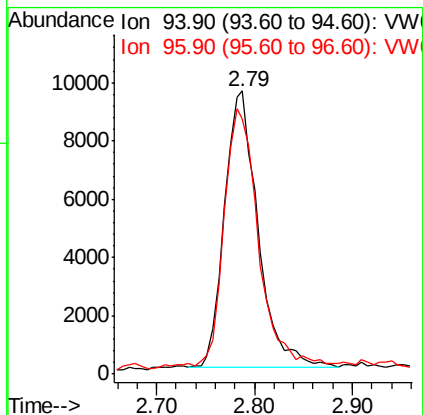
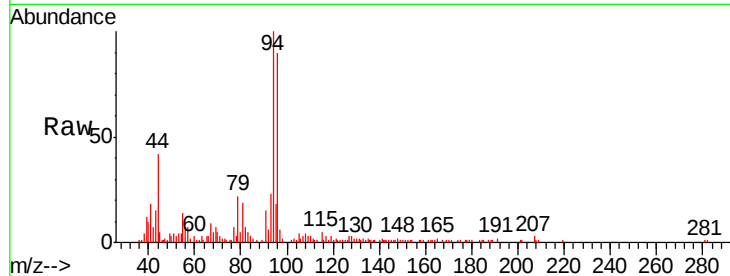
96 88.9 75.0 112.4

Manual Integrations

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#6

Chloroethane

Concen: 10.27 ug/l

RT: 2.93 min Scan# 168

Delta R.T. -0.00 min

Lab File: VW005899.D

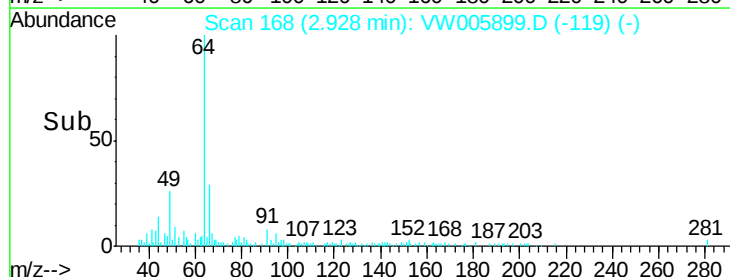
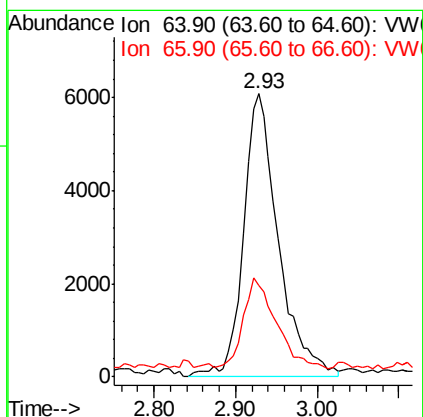
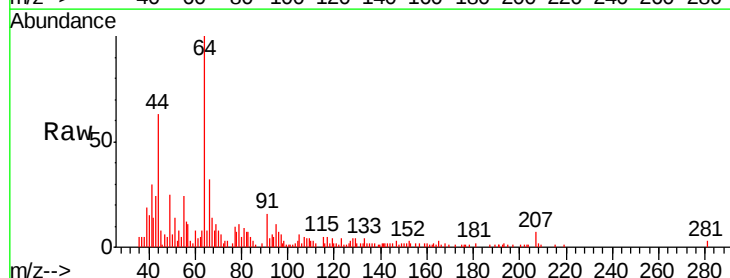
Acq: 08 Oct 2018 16:51

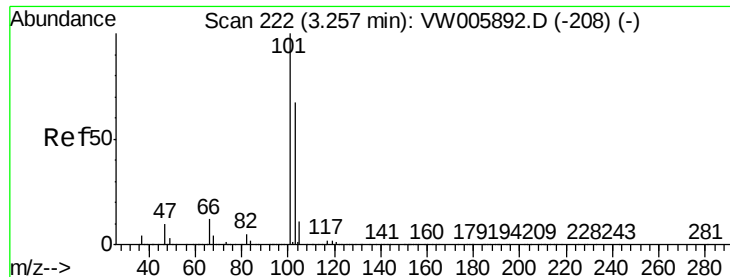
Tgt Ion: 64 Resp: 18109

Ion Ratio Lower Upper

64 100

66 27.0 25.0 37.4





#7

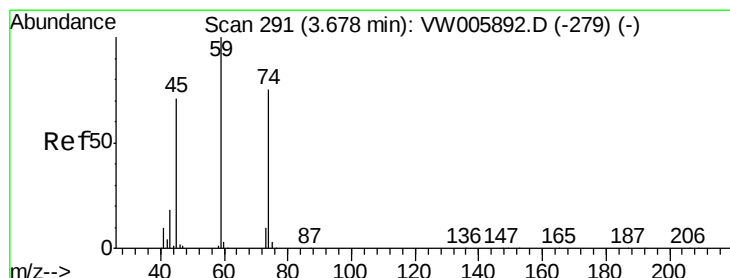
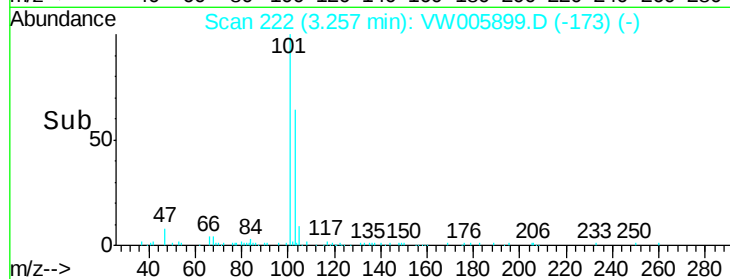
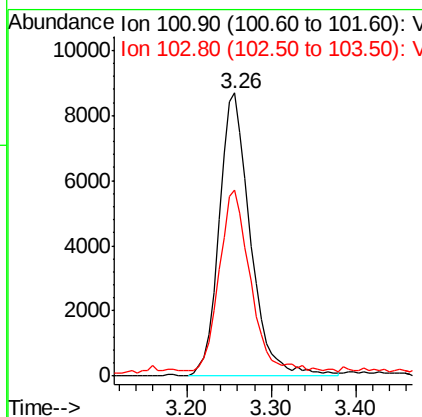
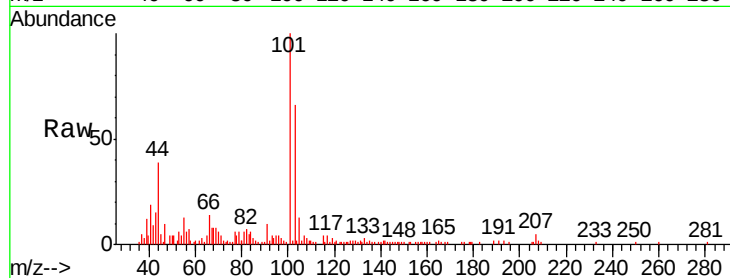
Trichlorofluoromethane
Concen: 9.99 ug/l
RT: 3.26 min Scan# 222
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

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Tgt Ion	Ratio	Resp	Lower	Upper
101	100	21951		
103	64.1	53.5	80.3	

Manual Integrations
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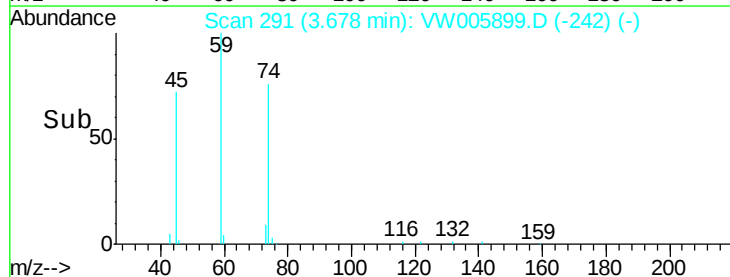
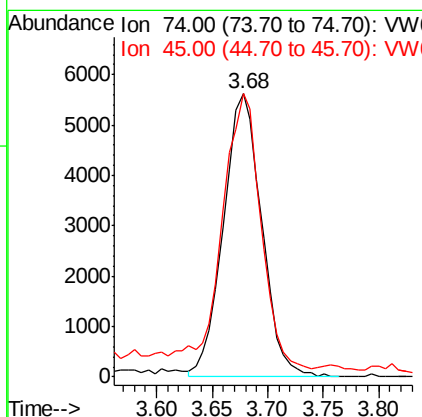
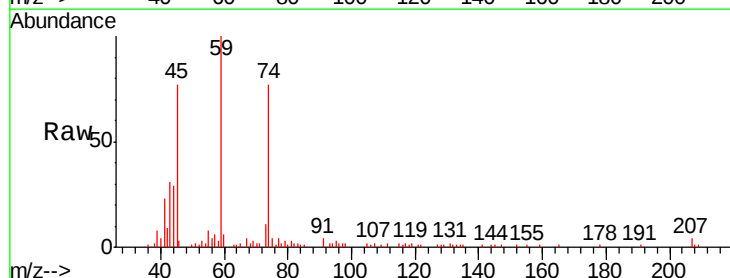
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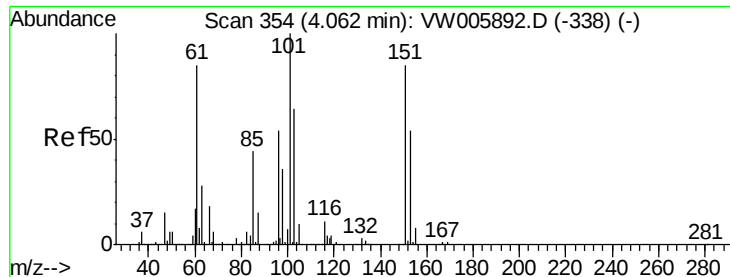


#8

Diethyl Ether
Concen: 9.93 ug/l
RT: 3.68 min Scan# 291
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	13433		
45	98.6	46.8	140.4	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 9.68 ug/l

RT: 4.06 min Scan# 354

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

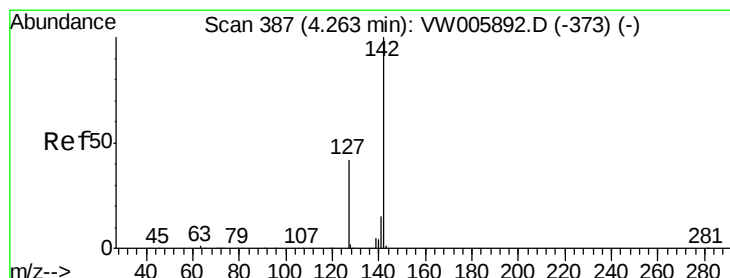
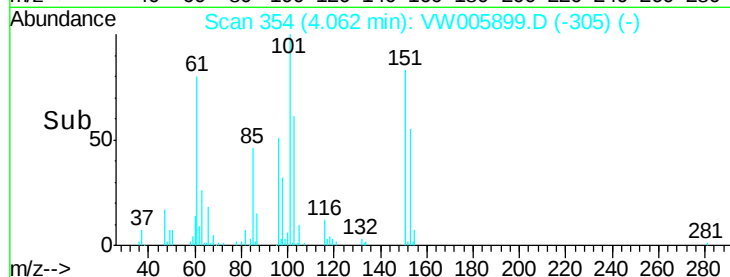
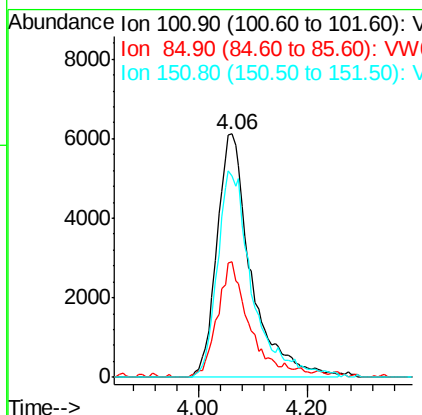
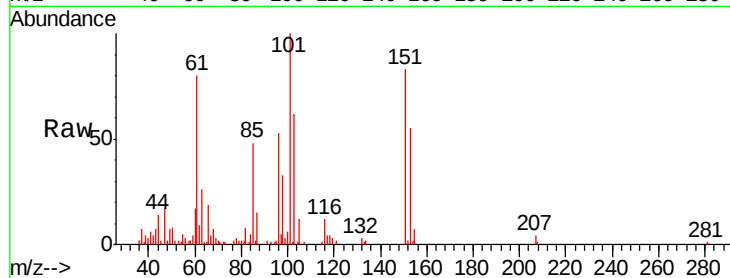
ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion:	101	Resp:	26836
Ion Ratio	Lower	Upper	
101	100		
85	42.9	35.1	52.7
151	86.2	67.7	101.5

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#10

Methyl Iodide

Concen: 9.26 ug/l

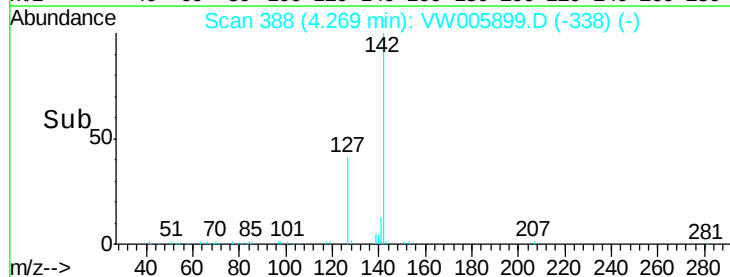
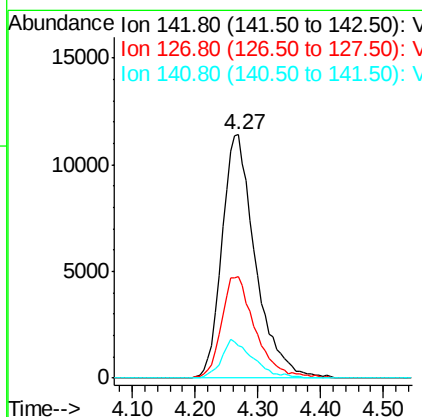
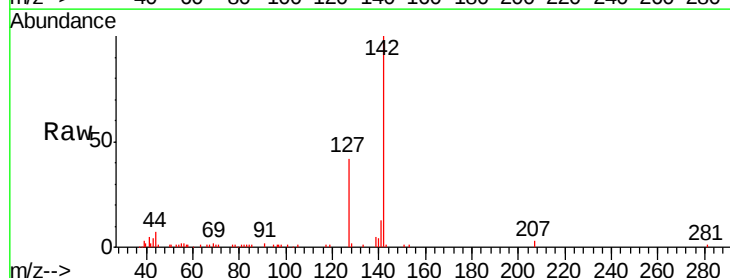
RT: 4.27 min Scan# 388

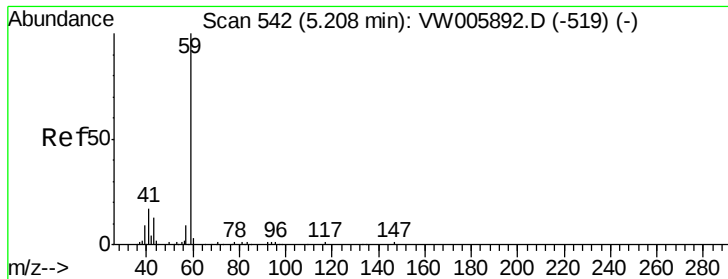
Delta R.T. 0.01 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Tgt Ion:	142	Resp:	42014
Ion Ratio	Lower	Upper	
142	100		
127	42.2	33.7	50.5
141	14.9	11.5	17.3





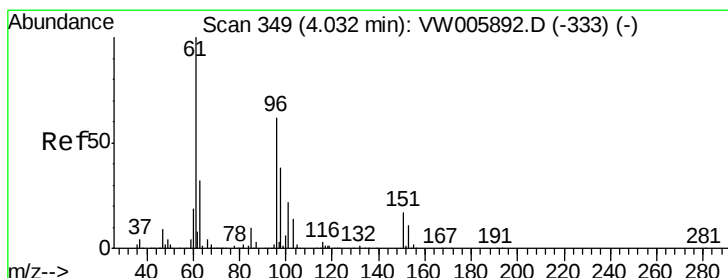
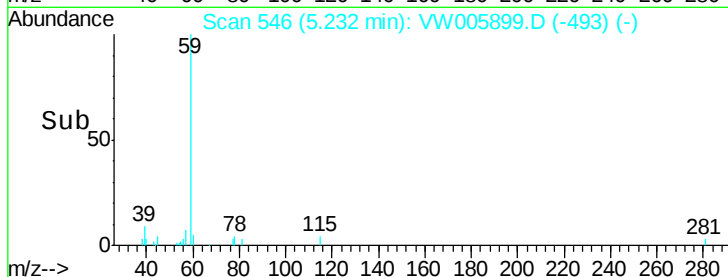
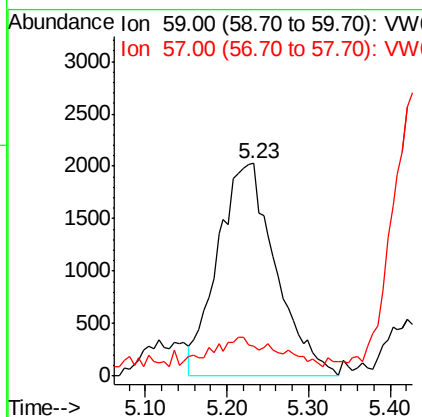
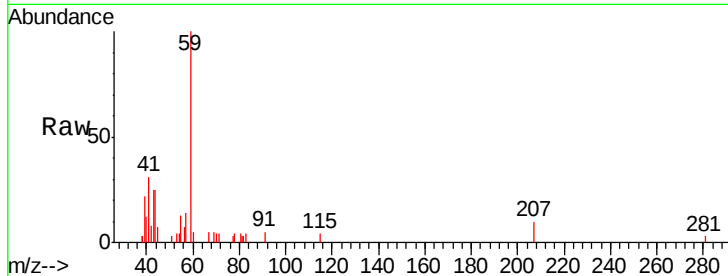
#11
Tert butyl alcohol
Concen: 46.56 ug/l
RT: 5.23 min Scan# 546
Delta R.T. 0.02 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion: 59 Resp: 10023
Ion Ratio Lower Upper
59 100
57 6.8 7.7 11.5#

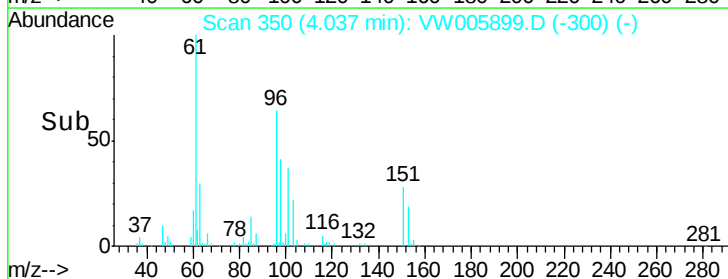
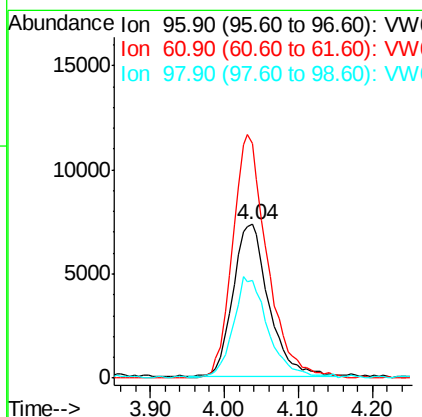
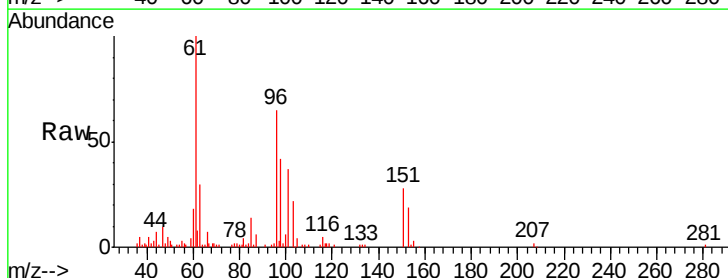
Manual Integrations
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#12
1,1-Dichloroethene
Concen: 9.22 ug/l
RT: 4.04 min Scan# 350
Delta R.T. 0.01 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Tgt Ion: 96 Resp: 24560
Ion Ratio Lower Upper
96 100
61 154.5 128.6 193.0
98 64.7 49.4 74.0





#13

Acrolein

Concen: 47.99 ug/l

RT: 3.90 min Scan# 327

Delta R.T. 0.01 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion: 56 Resp: 9206

Ion Ratio Lower Upper

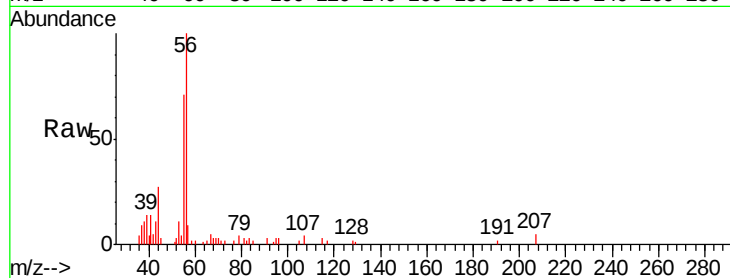
56 100

55 75.9 54.6 82.0

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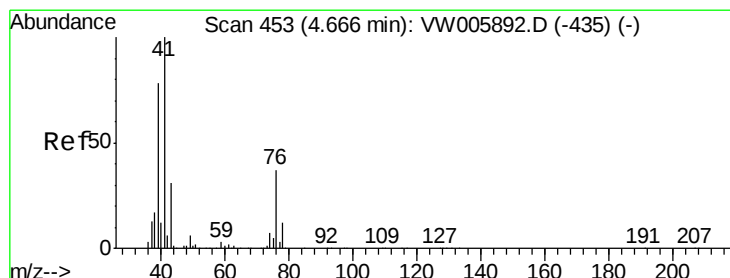
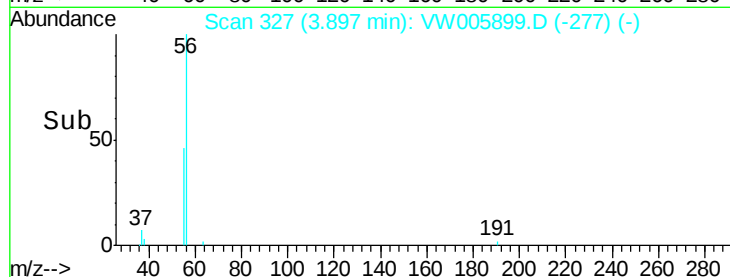
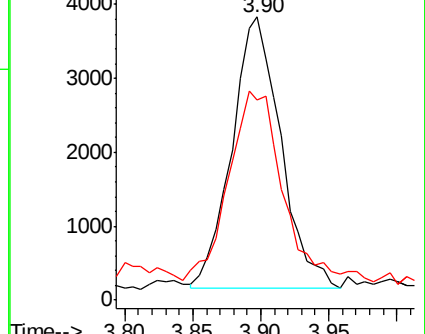
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Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#14

Allyl chloride

Concen: 8.81 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

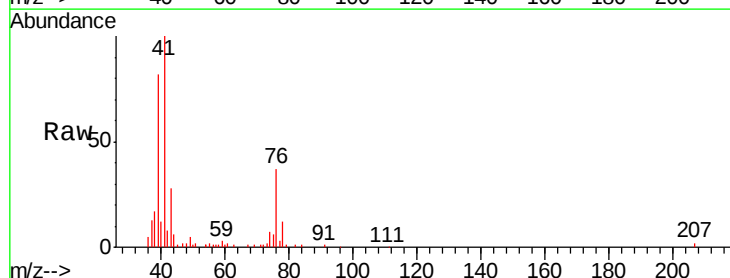
Tgt Ion: 41 Resp: 40020

Ion Ratio Lower Upper

41 100

39 75.6 60.8 91.2

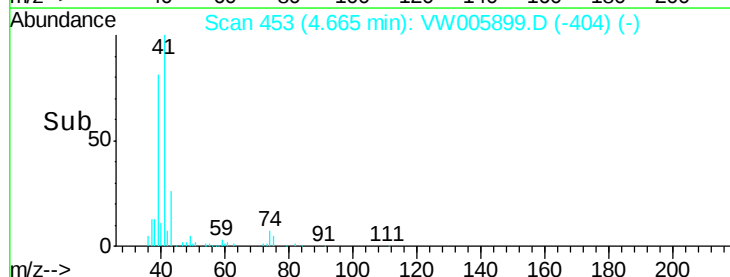
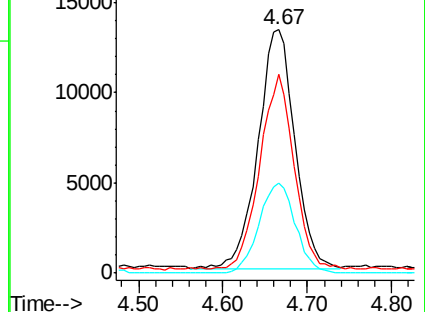
76 37.0 29.6 44.4

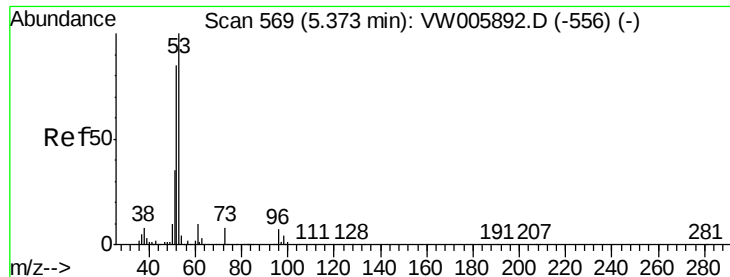


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 75.90 (75.60 to 76.60): VW





#15

Acrylonitrile

Concen: 48.40 ug/l

RT: 5.38 min Scan# 570

Delta R.T. 0.01 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

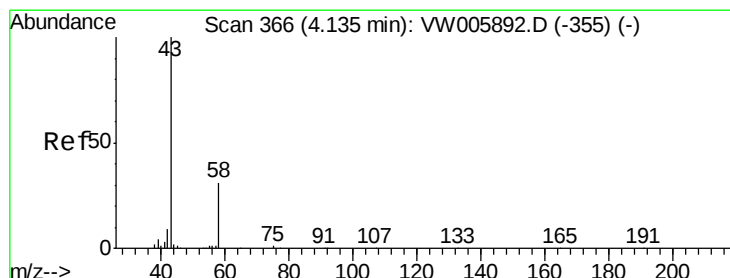
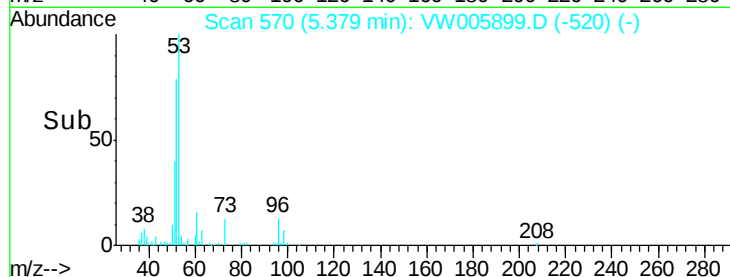
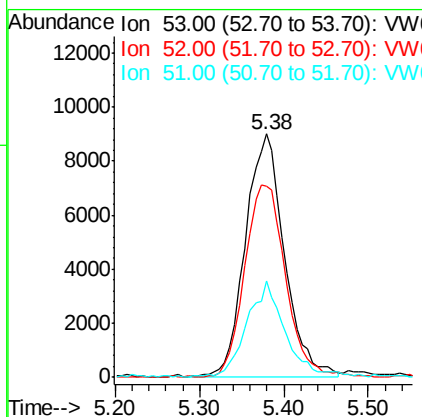
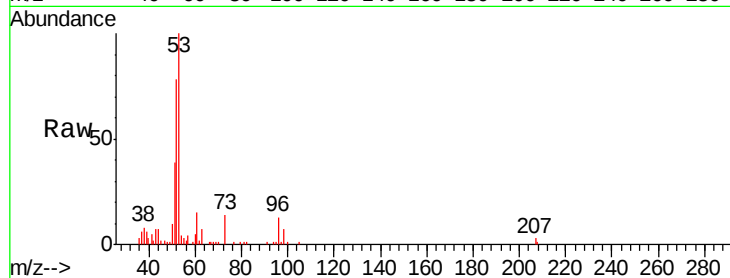
ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion:	53	Resp:	28489
Ion	Ratio	Lower	Upper
53	100		
52	83.1	66.8	100.2
51	39.0	29.8	44.6

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#16

Acetone

Concen: 54.66 ug/l

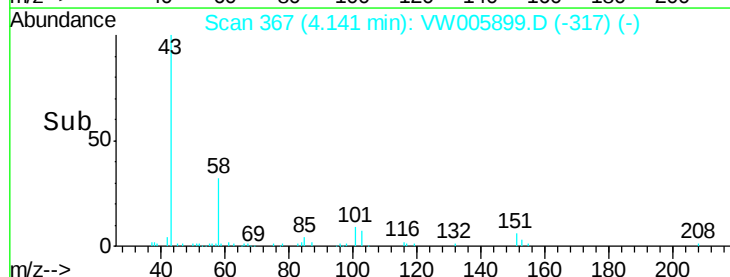
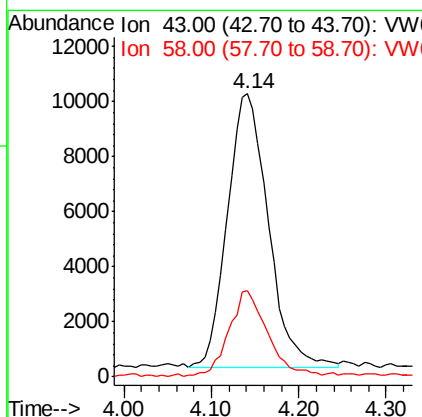
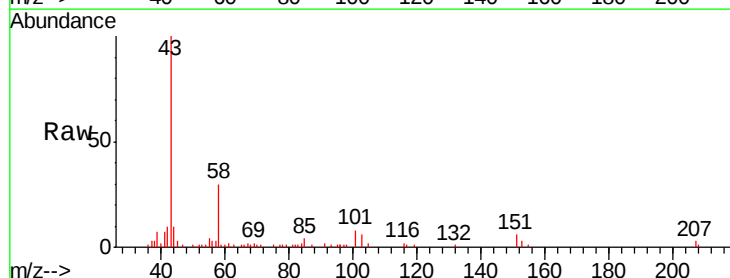
RT: 4.14 min Scan# 367

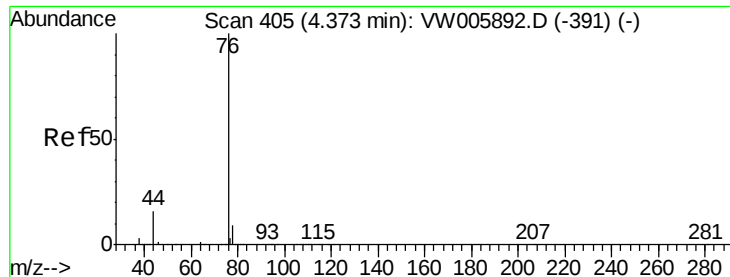
Delta R.T. 0.01 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Tgt Ion:	43	Resp:	32067
Ion	Ratio	Lower	Upper
43	100		
58	30.8	24.7	37.1





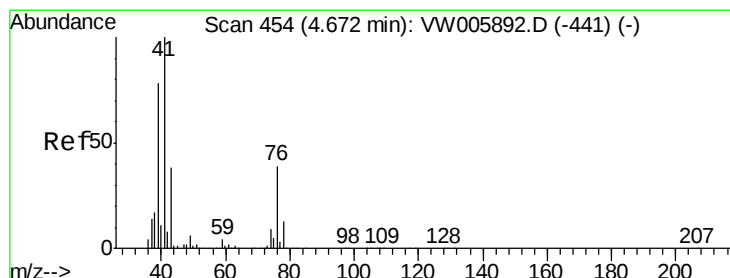
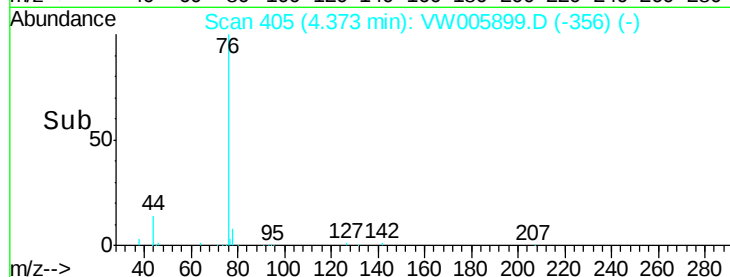
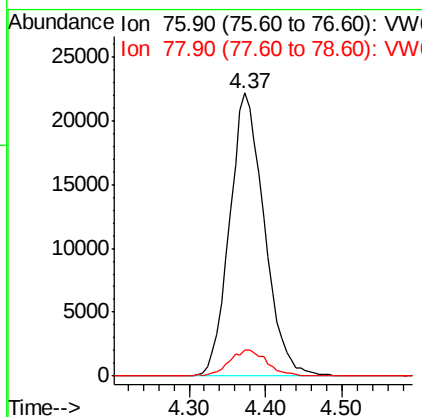
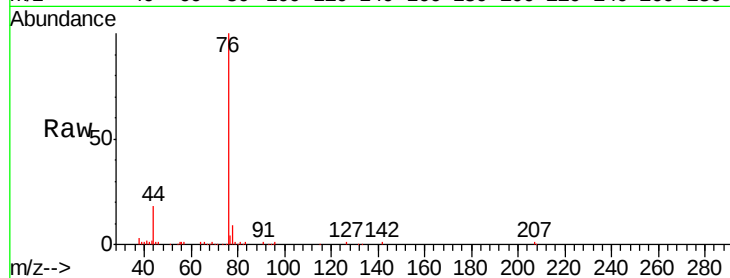
#17
Carbon Disulfide
Concen: 8.63 ug/l
RT: 4.37 min Scan# 405
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.4	11.0

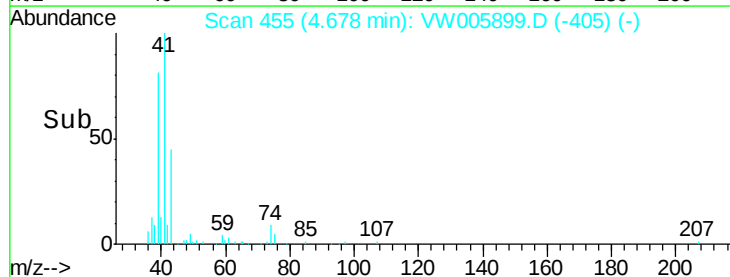
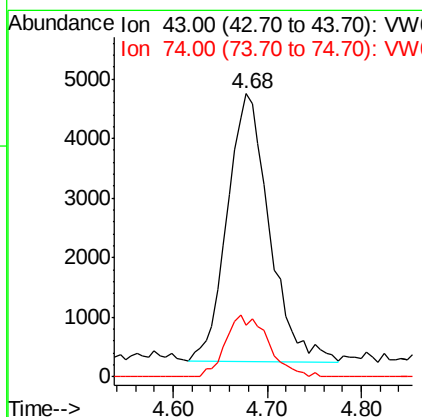
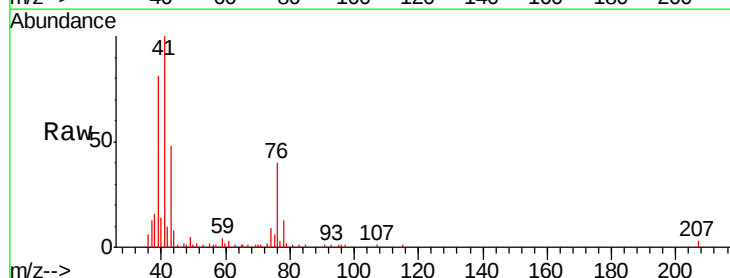
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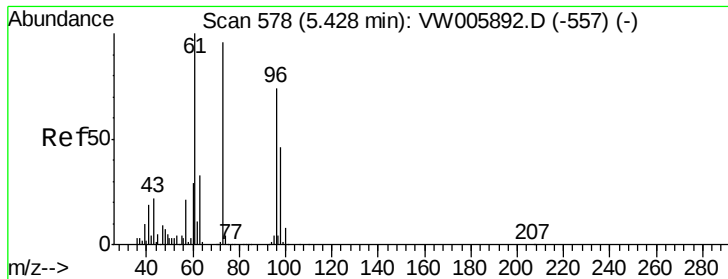
apatel
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#18
Methyl Acetate
Concen: 9.43 ug/l
RT: 4.68 min Scan# 455
Delta R.T. 0.01 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.5	19.2	28.8





#19

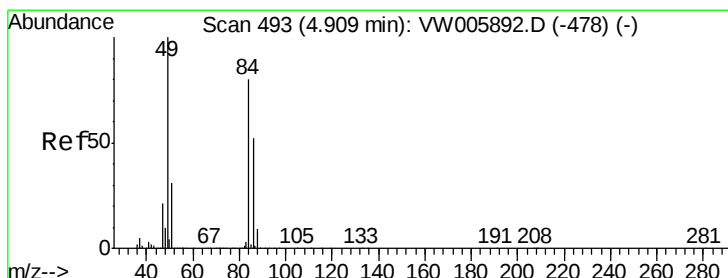
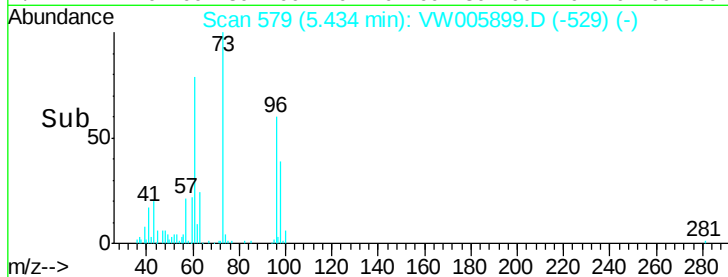
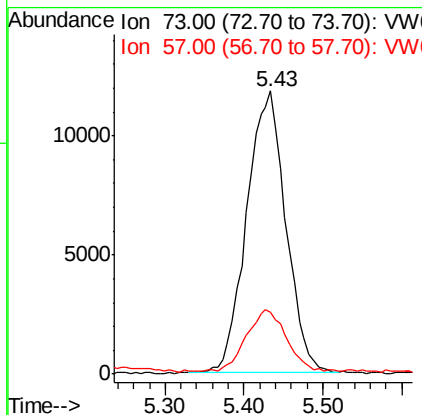
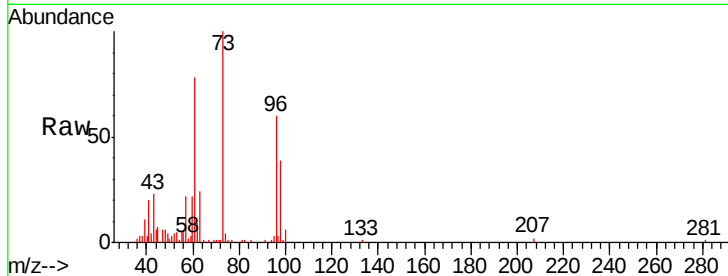
Methyl tert-butyl Ether
 Concen: 9.80 ug/l
 RT: 5.43 min Scan# 579
 Delta R.T. 0.01 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

Tgt Ion: 73 Resp: 40628
 Ion Ratio Lower Upper
 73 100
 57 20.7 17.7 26.5

Manual Integrations
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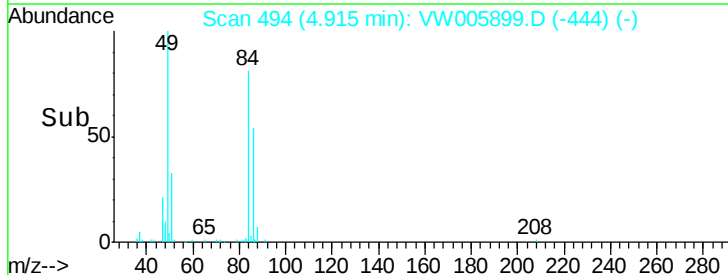
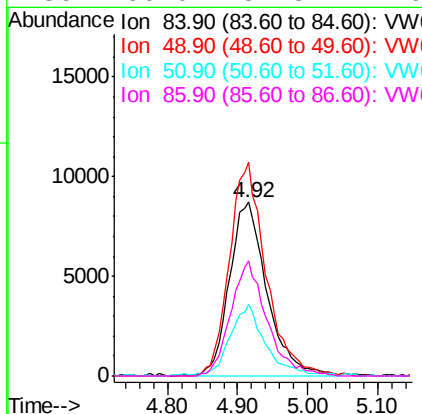
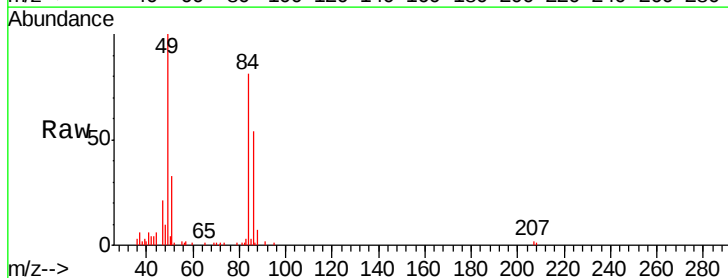
apatel
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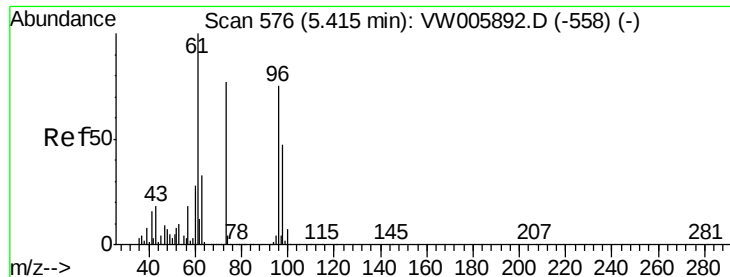


#20

Methylene Chloride
 Concen: 11.08 ug/l
 RT: 4.92 min Scan# 494
 Delta R.T. 0.01 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Tgt Ion: 84 Resp: 32555
 Ion Ratio Lower Upper
 84 100
 49 123.0 99.9 149.9
 51 41.1 31.1 46.7
 86 66.0 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 9.48 ug/l

RT: 5.42 min Scan# 576

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

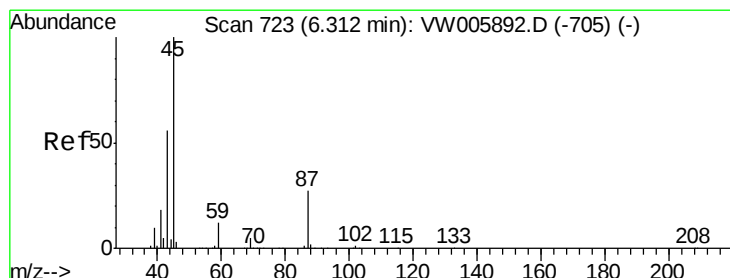
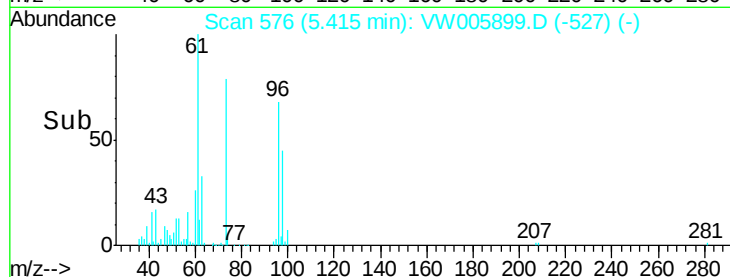
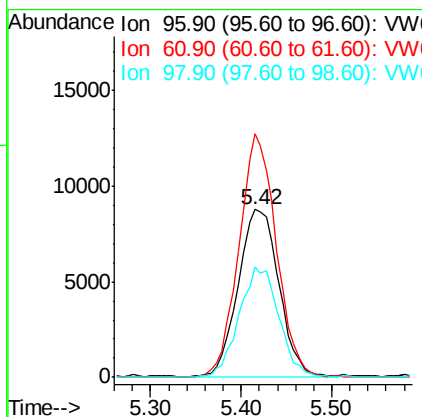
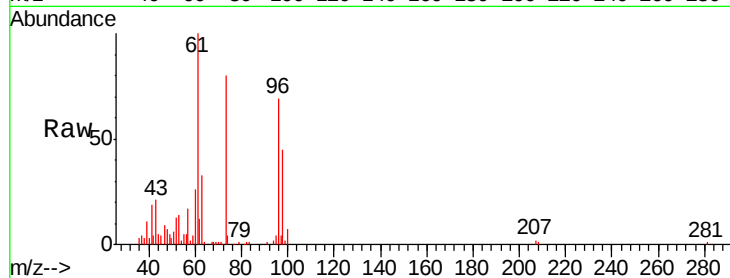
ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion:	96	Resp:	27519
Ion	Ratio	Lower	Upper
96	100		
61	145.3	107.4	161.0
98	66.1	50.8	76.2

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#22

Diisopropyl ether

Concen: 9.18 ug/l

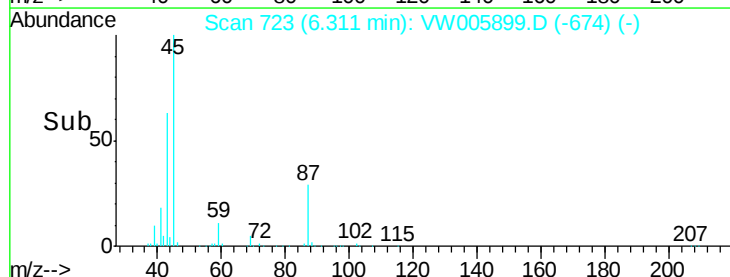
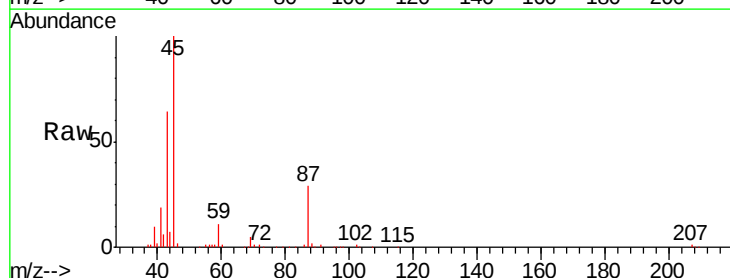
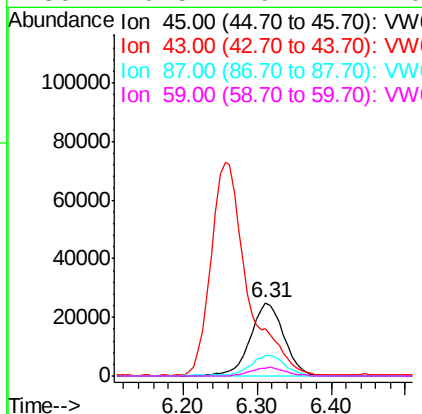
RT: 6.31 min Scan# 723

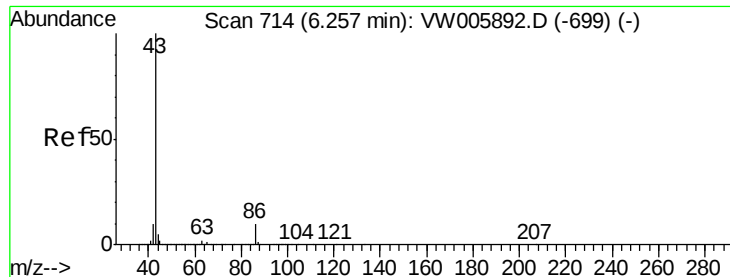
Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Tgt Ion:	45	Resp:	77963
Ion	Ratio	Lower	Upper
45	100		
43	62.8	45.9	68.9
87	28.9	22.2	33.4
59	10.5	9.4	14.0





#23

Vinyl Acetate

Concen: 47.01 ug/l

RT: 6.26 min Scan# 714

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion: 43 Resp: 245676

Ion Ratio Lower Upper

43 100

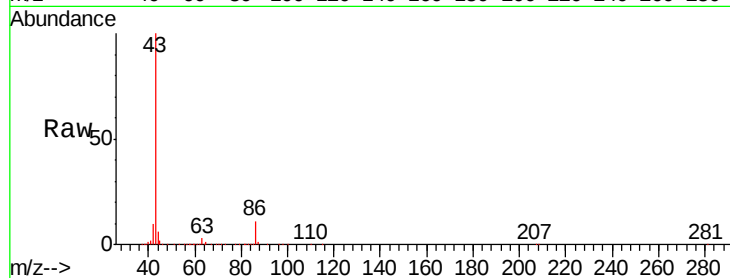
86 10.6 8.2 12.4

Manual Integrations

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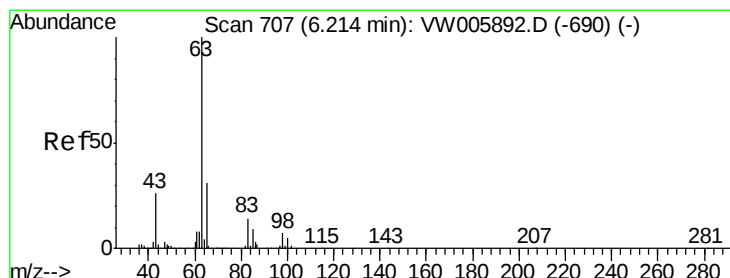
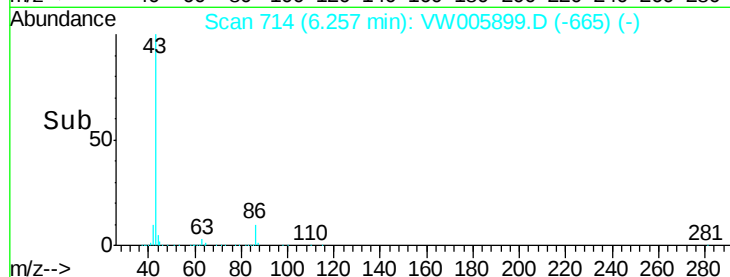
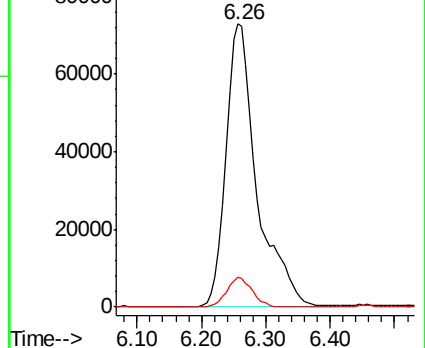
apatel

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Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW



#24

1,1-Dichloroethane

Concen: 9.27 ug/l

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

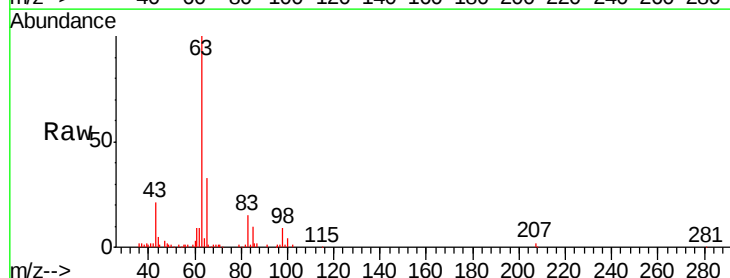
Tgt Ion: 63 Resp: 48175

Ion Ratio Lower Upper

63 100

98 8.6 3.5 10.6

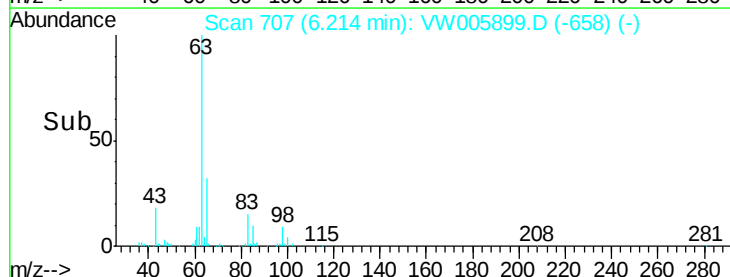
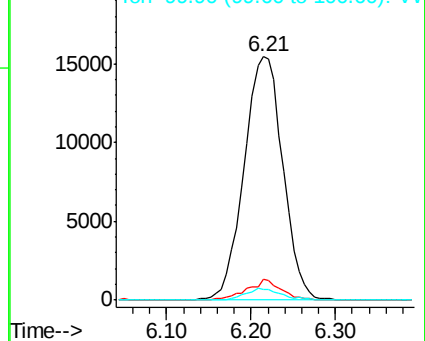
100 4.5 2.4 7.1



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW





#25

2-Butanone

Concen: 50.79 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion: 43 Resp: 42383

Ion Ratio Lower Upper

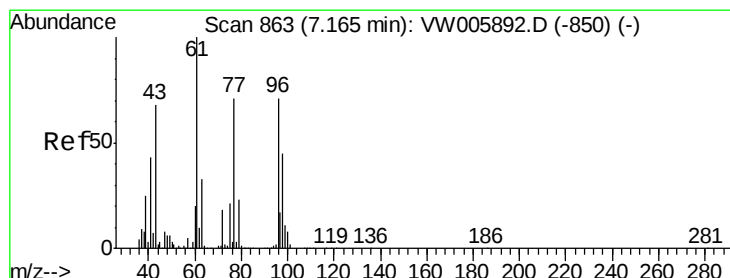
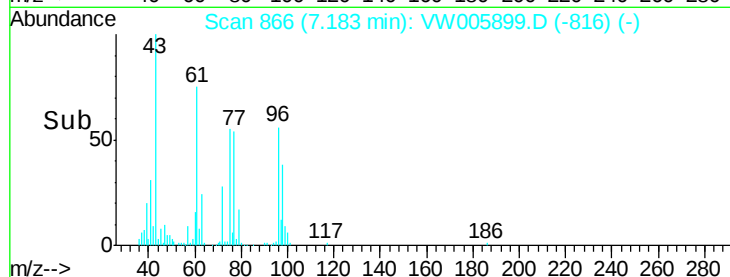
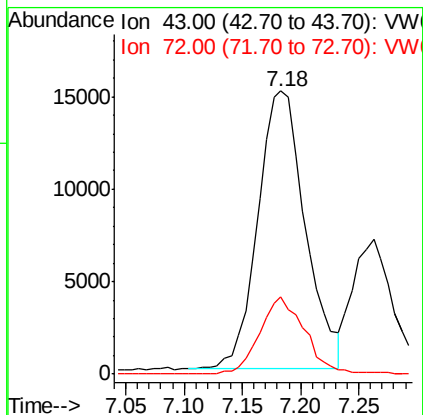
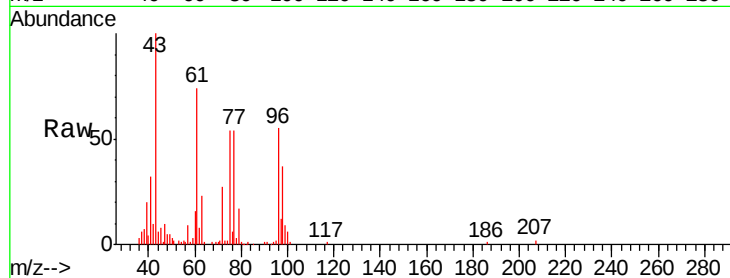
43 100

72 27.6 21.0 31.4

Manual Integrations
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#26

2,2-Dichloropropane

Concen: 9.85 ug/l

RT: 7.16 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW005899.D

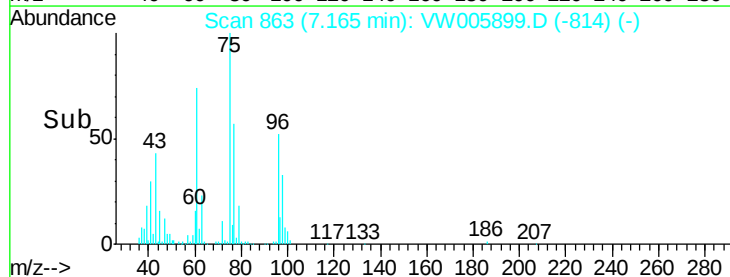
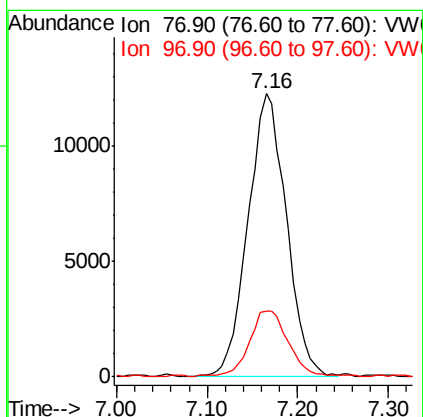
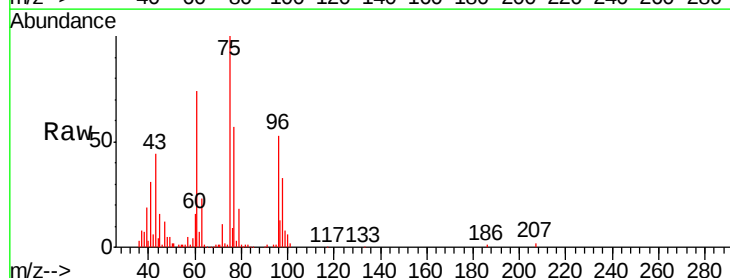
Acq: 08 Oct 2018 16:51

Tgt Ion: 77 Resp: 36022

Ion Ratio Lower Upper

77 100

97 23.8 11.9 35.7





#27

cis-1,2-Dichloroethene

Concen: 9.42 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

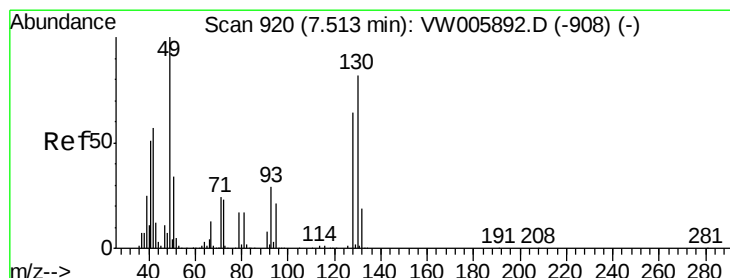
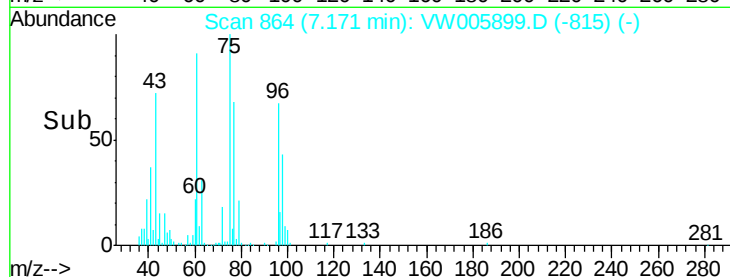
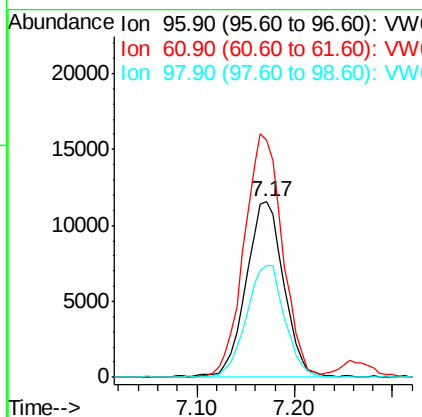
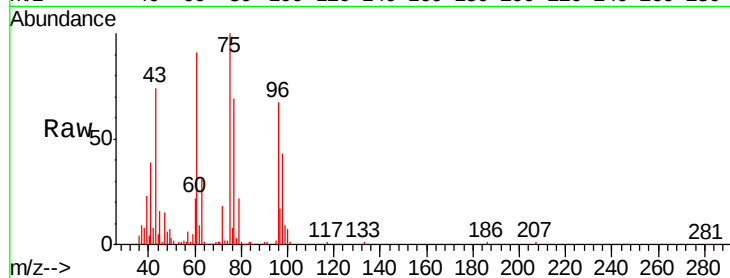
ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion:	96	Resp:	30921
Ion	Ratio	Lower	Upper
96	100		
61	140.4	0.0	284.0
98	64.9	0.0	129.8

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#28

Bromochloromethane

Concen: 9.85 ug/l

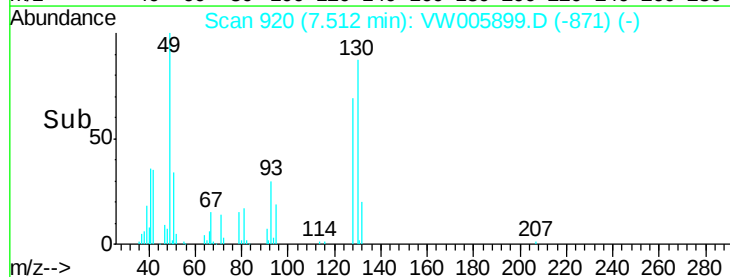
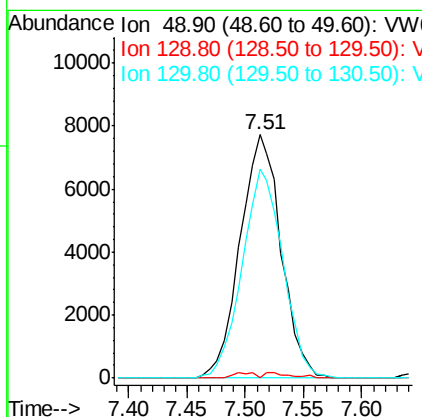
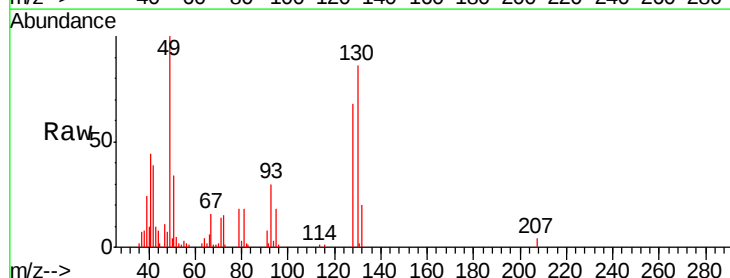
RT: 7.51 min Scan# 920

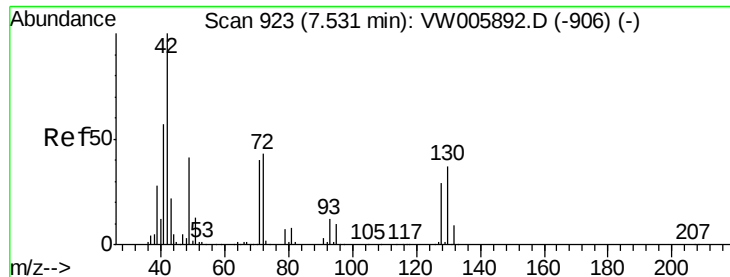
Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Tgt Ion:	49	Resp:	18898
Ion	Ratio	Lower	Upper
49	100		
129	1.1	0.0	5.0
130	85.6	66.9	100.3





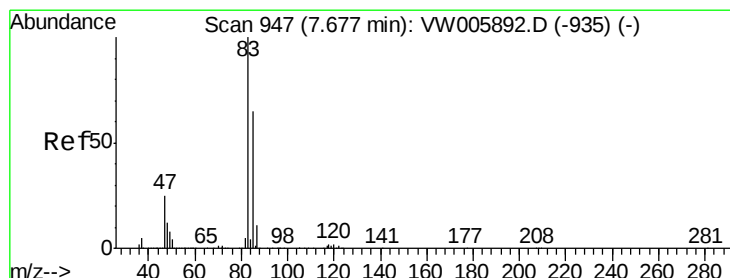
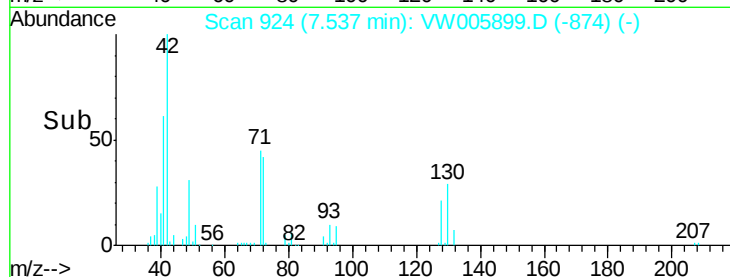
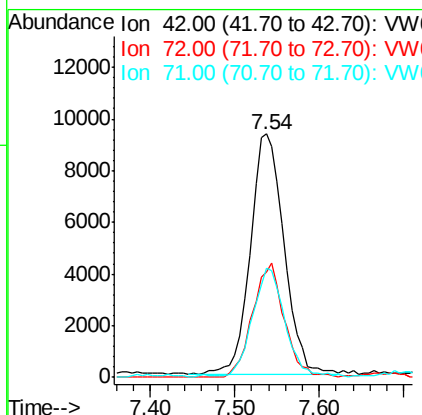
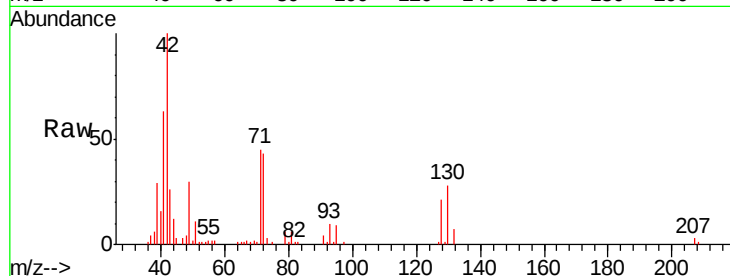
#29
Tetrahydrofuran
Concen: 48.10 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
42	100		
72	44.7	34.6	51.8
71	44.4	32.6	49.0

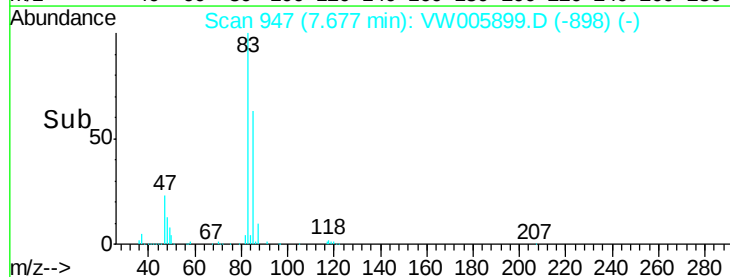
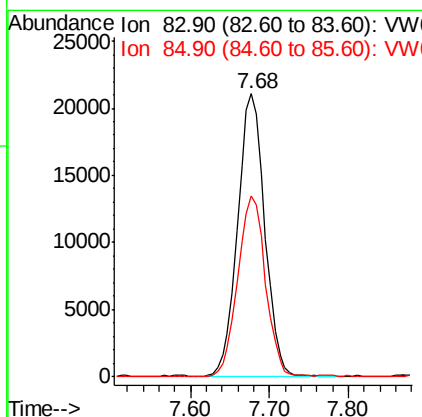
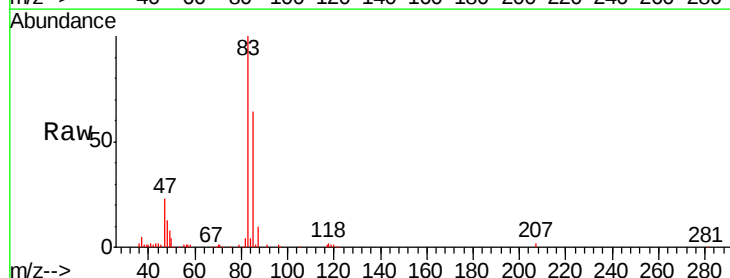
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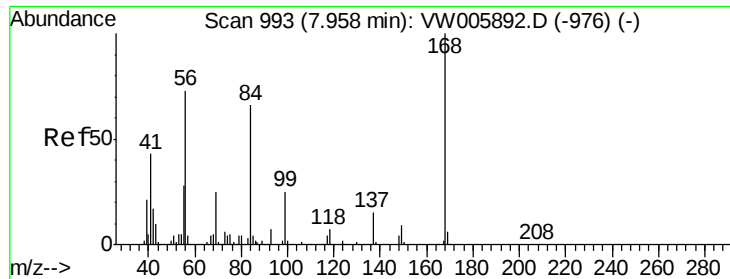
apatel
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#30
Chloroform
Concen: 9.50 ug/l
RT: 7.68 min Scan# 947
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.8	51.6	77.4





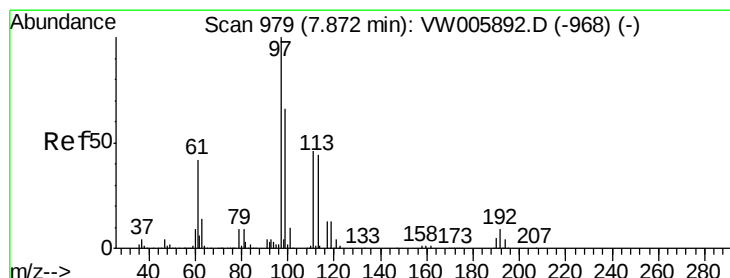
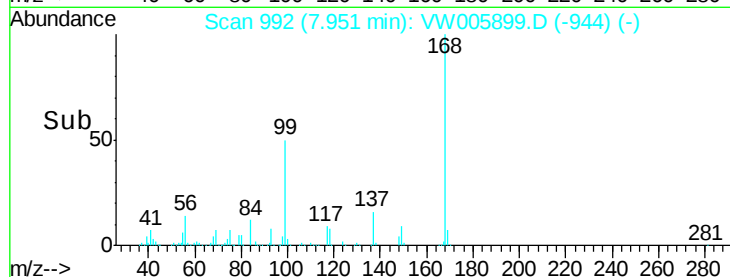
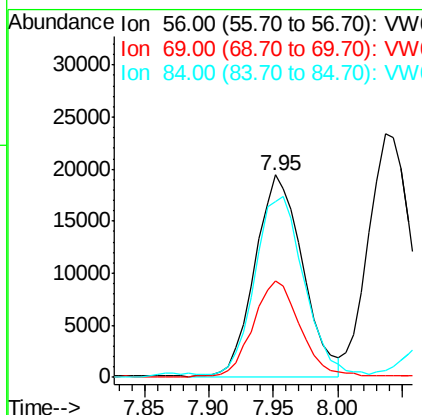
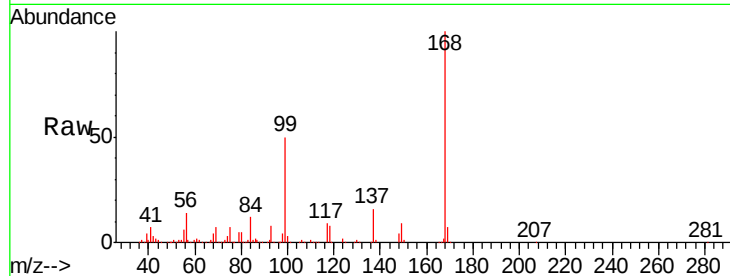
#31
Cyclohexane
Concen: 9.66 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.01 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
56	100		
69	47.0	27.9	41.9#
84	85.6	72.3	108.5

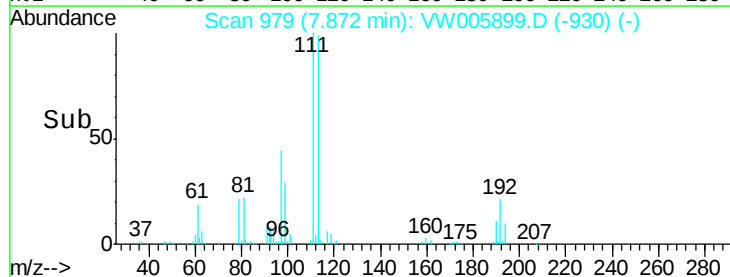
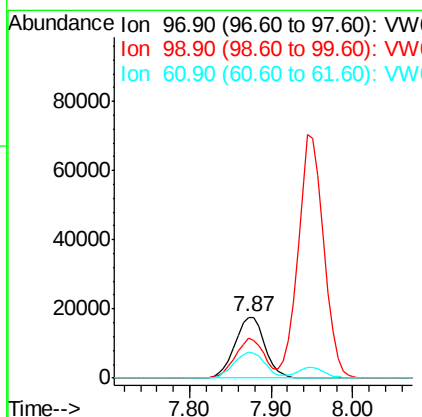
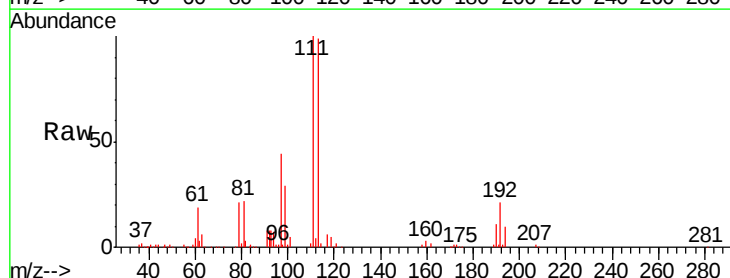
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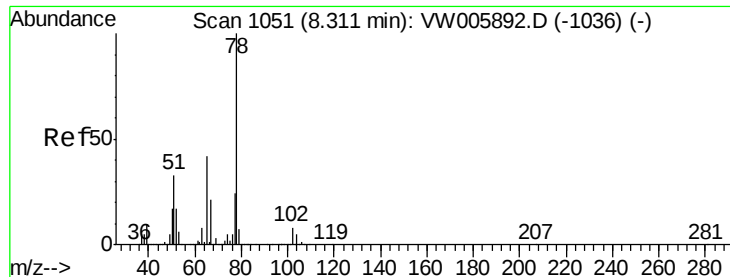
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#32
1,1,1-Trichloroethane
Concen: 9.49 ug/l
RT: 7.87 min Scan# 979
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Tgt Ion	Ratio	Lower	Upper
97	100		
99	61.0	51.6	77.4
61	43.4	34.5	51.7





#33

1,2-Dichloroethane-d4

Concen: 48.29 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion: 65 Resp: 141830

Ion Ratio Lower Upper

65 100

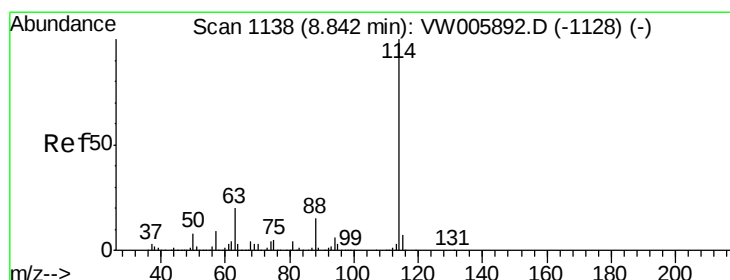
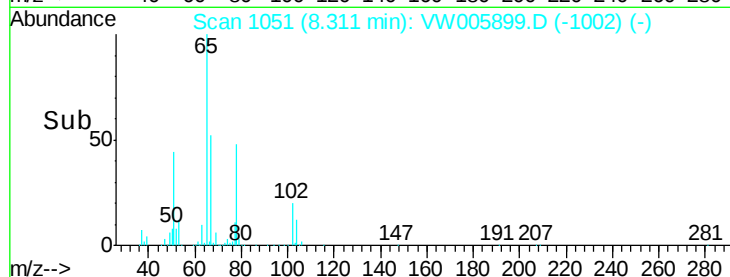
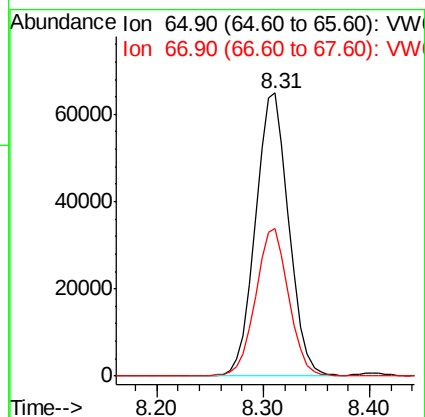
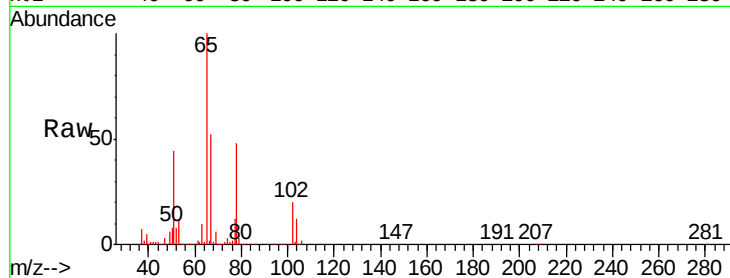
67 52.3 0.0 104.6

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#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.85 min Scan# 1139

Delta R.T. 0.01 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

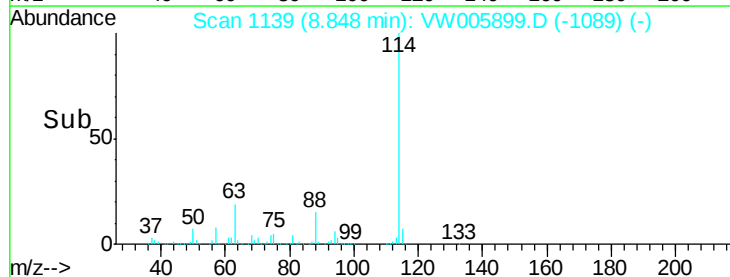
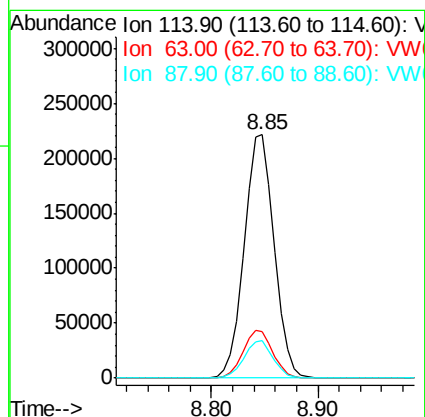
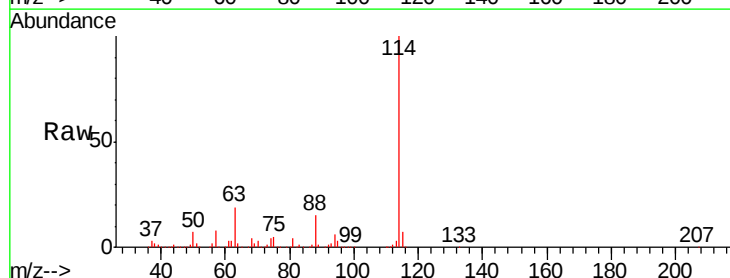
Tgt Ion: 114 Resp: 436814

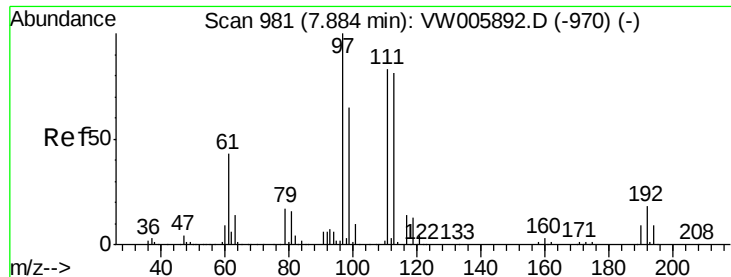
Ion Ratio Lower Upper

114 100

63 18.9 0.0 39.2

88 15.4 0.0 30.8





#35

Dibromofluoromethane

Concen: 50.14 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

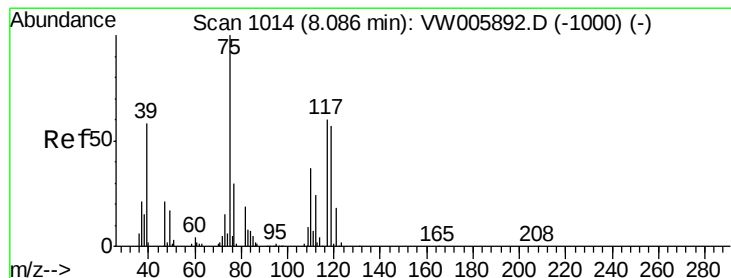
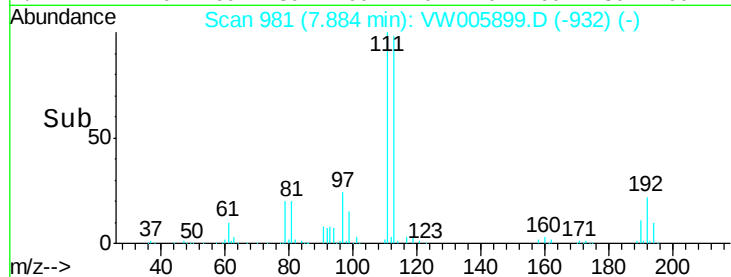
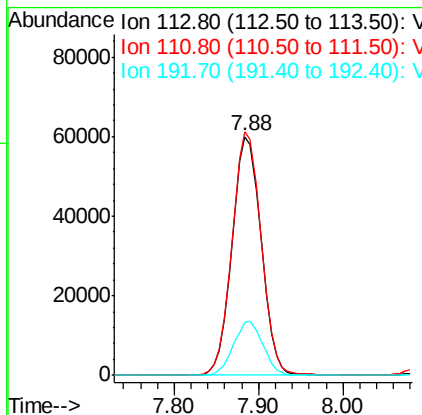
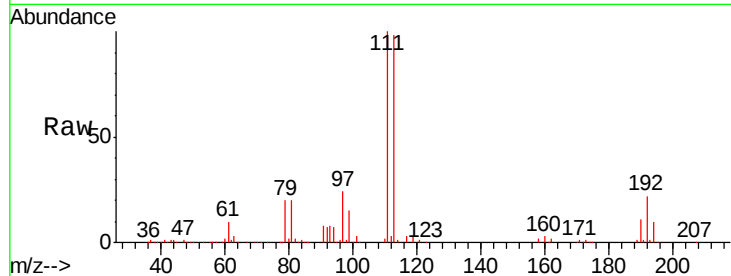
ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion:	113	Resp:	139840
Ion Ratio	Lower	Upper	
113	100		
111	101.8	82.0	123.0
192	22.9	18.3	27.5

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#36

1,1-Dichloropropene

Concen: 9.36 ug/l

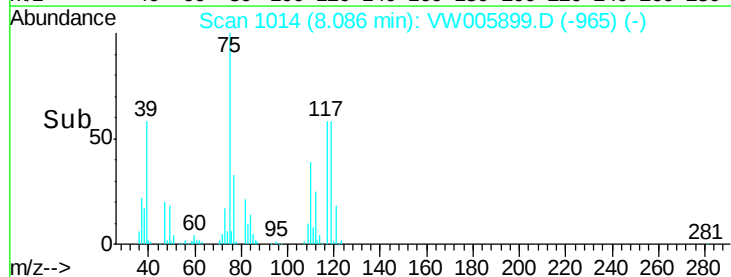
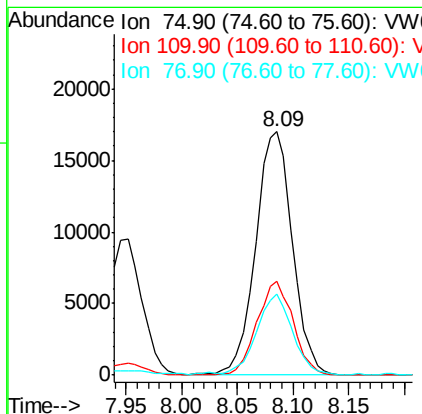
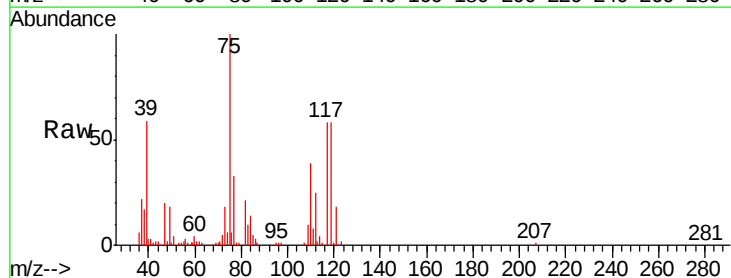
RT: 8.09 min Scan# 1014

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Tgt Ion:	75	Resp:	39173
Ion Ratio	Lower	Upper	
75	100		
110	37.9	18.6	56.0
77	33.1	24.7	37.1





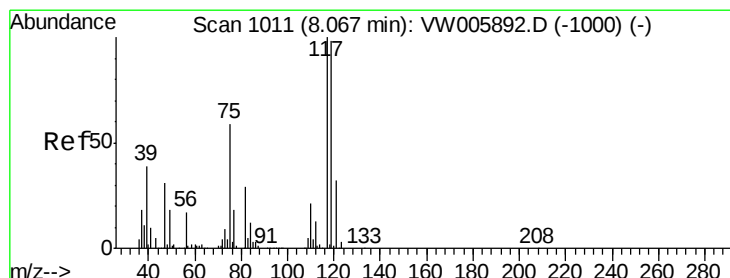
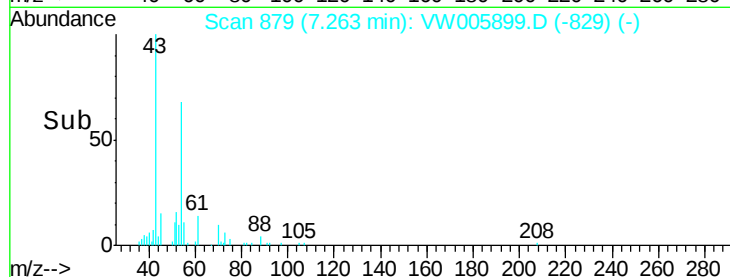
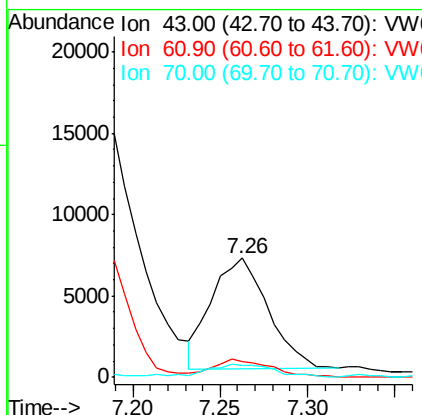
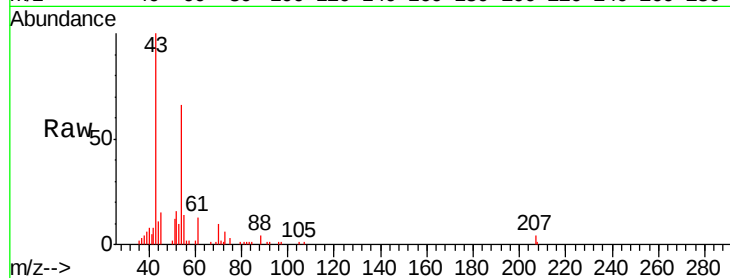
#37
Ethyl Acetate
Concen: 8.64 ug/l
RT: 7.26 min Scan# 879
Delta R.T. 0.01 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
43	100		
61	17.2	10.6	16.0#
70	14.4	8.6	13.0#

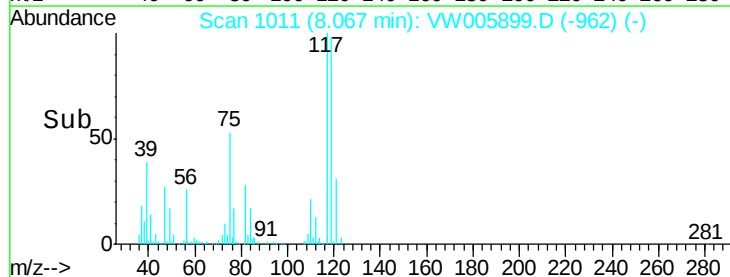
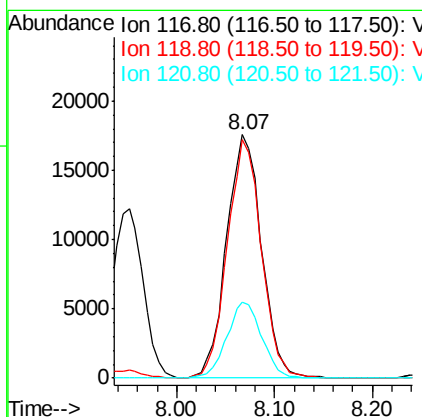
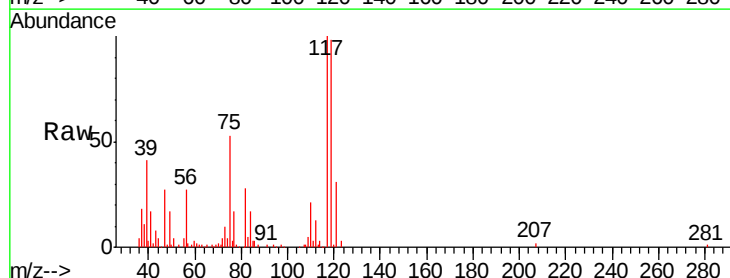
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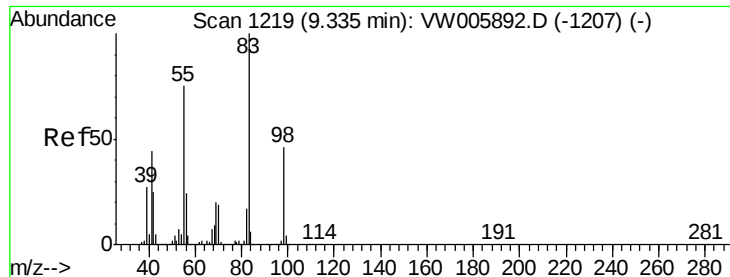
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#38
Carbon Tetrachloride
Concen: 9.68 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.9	78.6	117.8
121	31.2	25.3	37.9





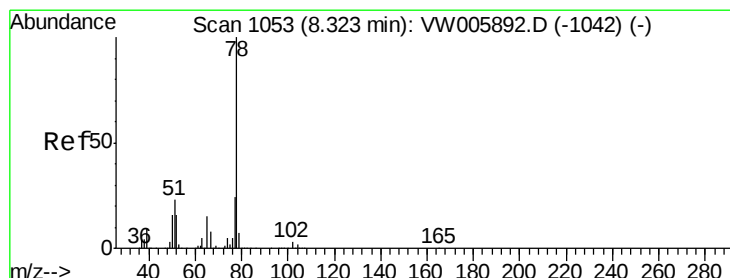
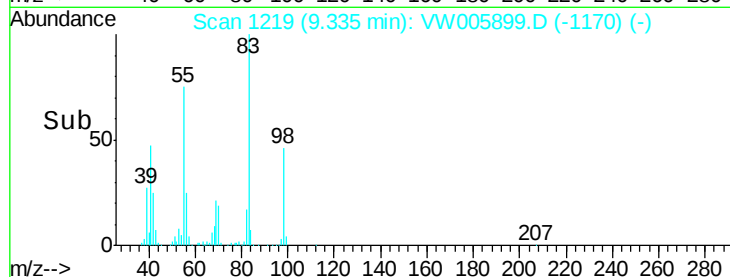
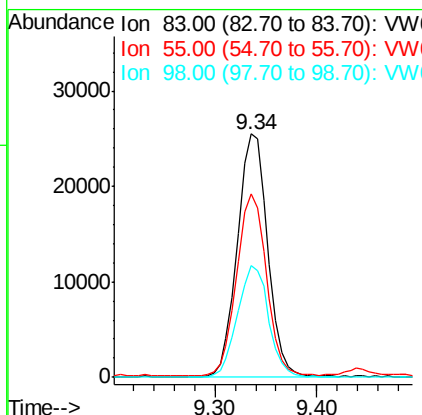
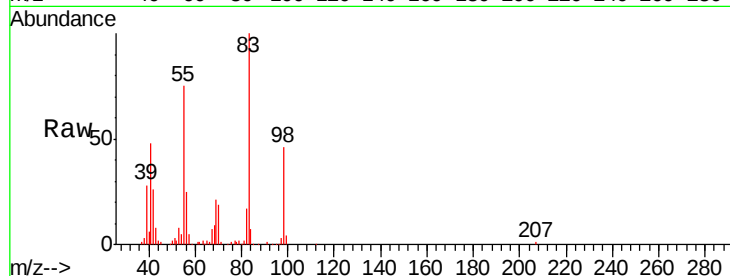
#39
Methylcyclohexane
Concen: 9.55 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
83	100		
55	74.4	59.8	89.6
98	45.5	37.1	55.7

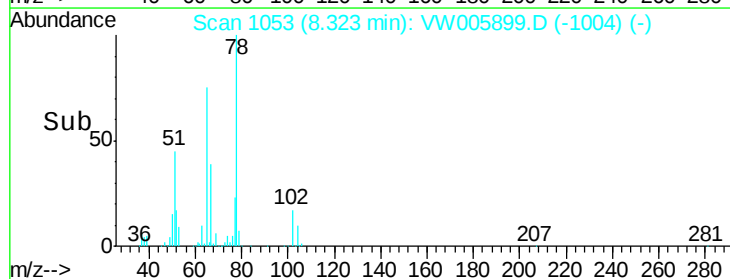
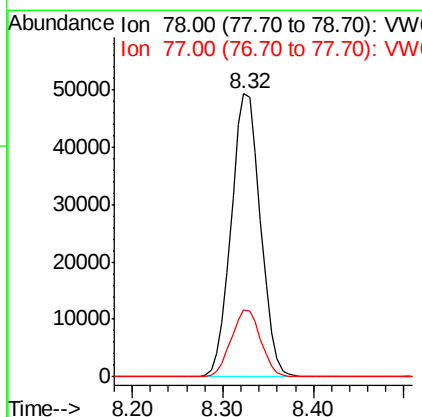
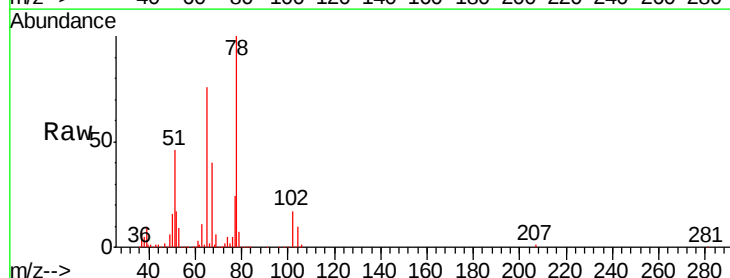
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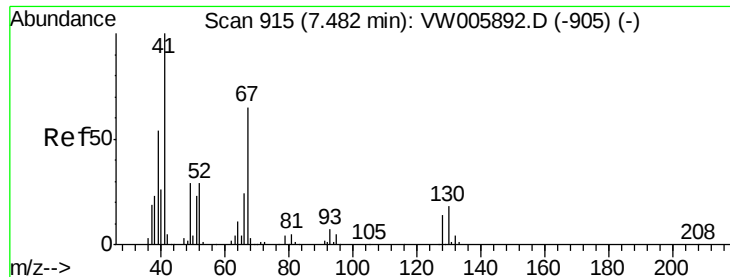
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#40
Benzene
Concen: 9.64 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.1	28.7





#41

Methacrylonitrile

Concen: 10.01 ug/l

RT: 7.49 min Scan# 916

Delta R.T. 0.01 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

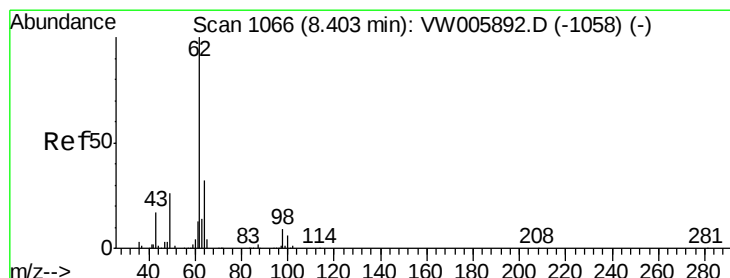
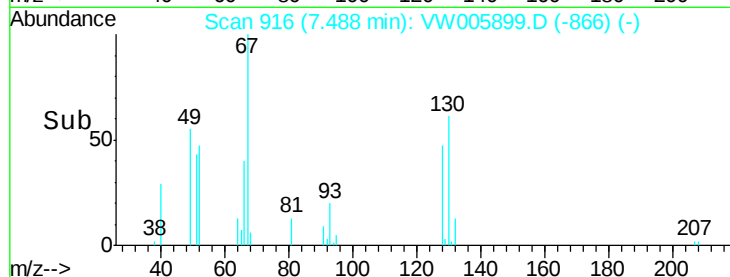
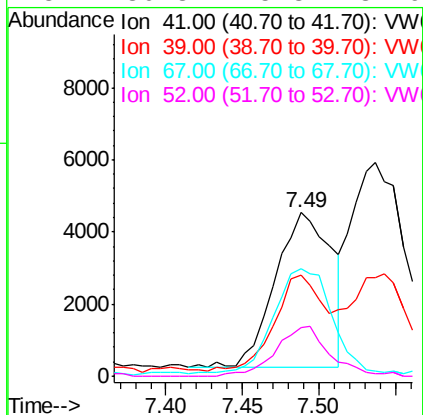
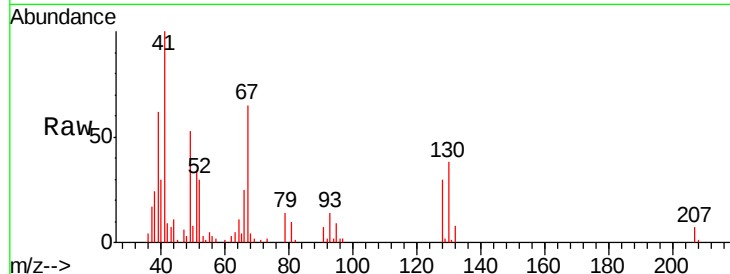
ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
41	100		
39	53.0	45.0	67.4
67	69.7	55.8	83.8
52	30.3	25.3	37.9

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#42

1,2-Dichloroethane

Concen: 9.47 ug/l

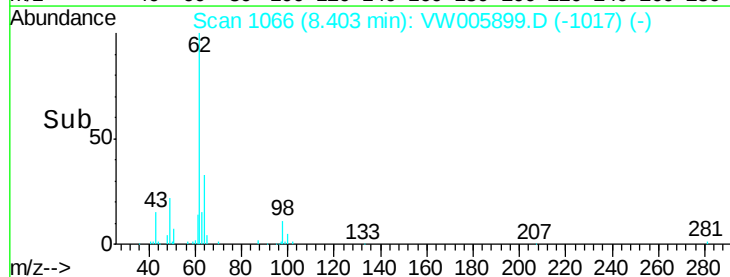
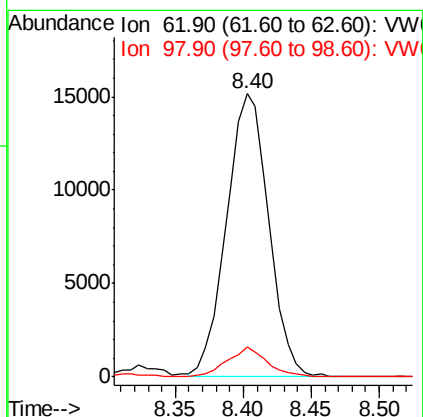
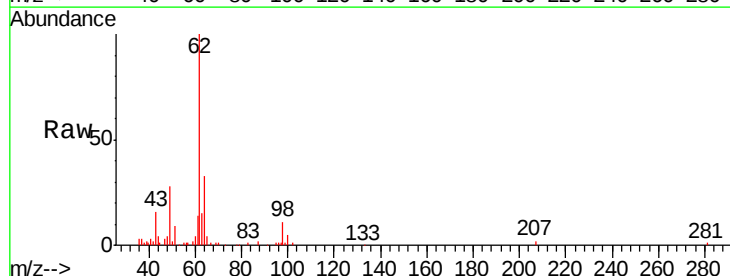
RT: 8.40 min Scan# 1066

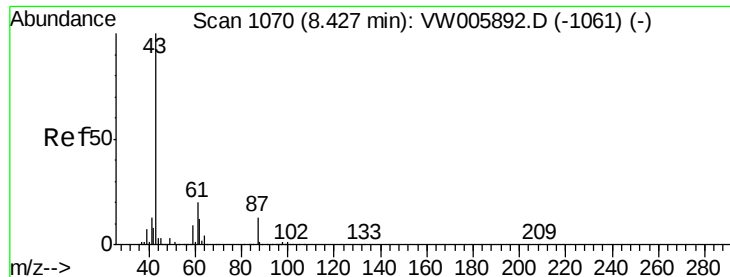
Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.9	0.0	18.0





#43

Isopropyl Acetate

Concen: 9.67 ug/l

RT: 8.43 min Scan# 1071

Delta R.T. 0.01 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

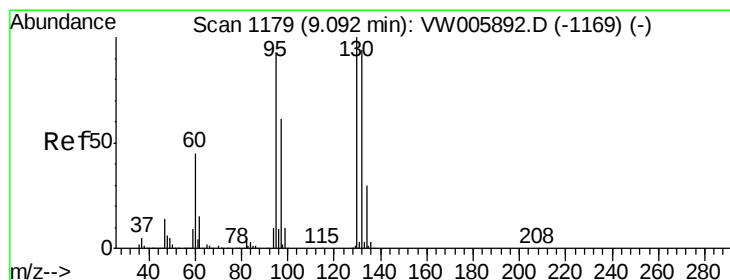
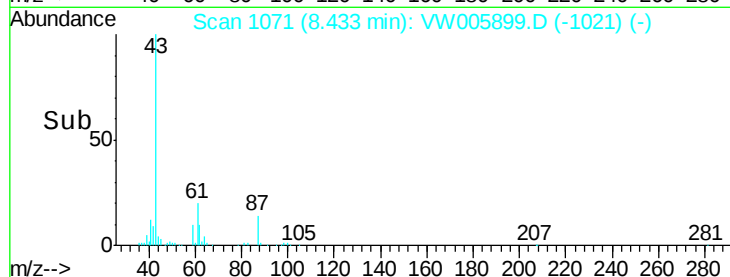
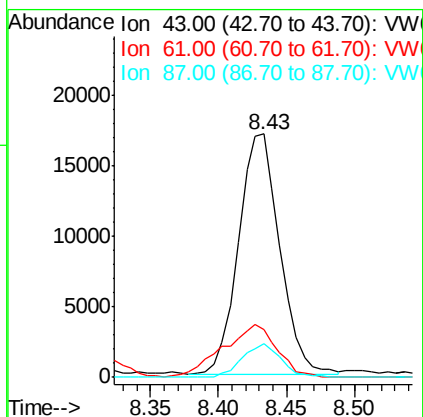
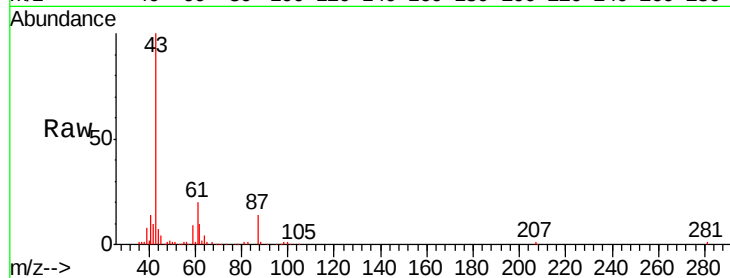
ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion:	43	Resp:	35817
Ion Ratio	Lower	Upper	
43	100		
61	28.9	23.1	34.7
87	13.3	10.7	16.1

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#44

Trichloroethene

Concen: 9.71 ug/l

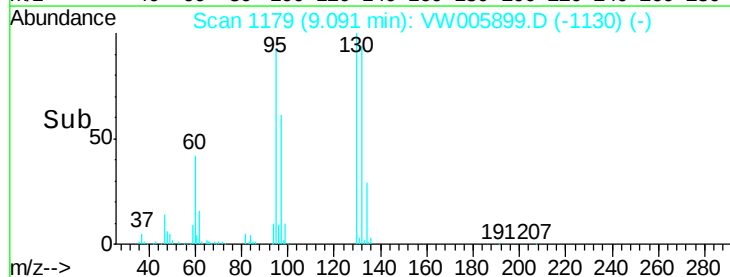
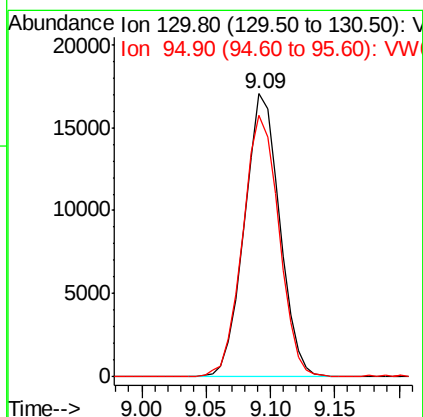
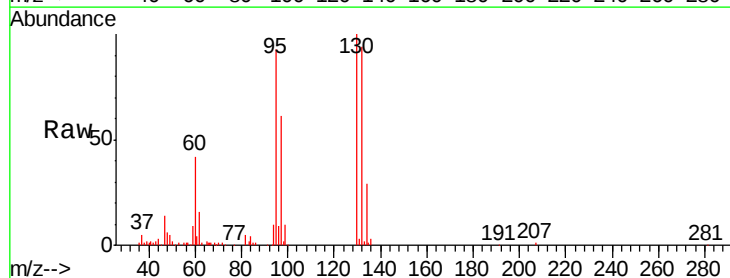
RT: 9.09 min Scan# 1179

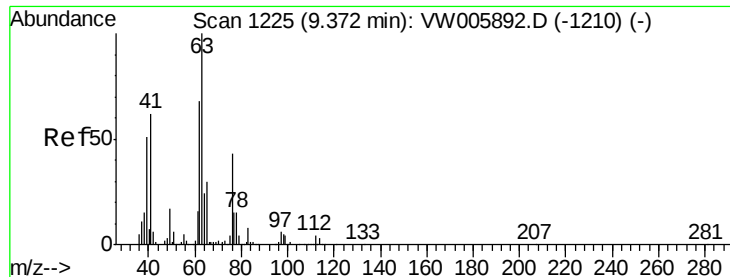
Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Tgt Ion:	130	Resp:	32266
Ion Ratio	Lower	Upper	
130	100		
95	92.6	0.0	185.6





#45

1,2-Dichloropropane

Concen: 9.37 ug/l

RT: 9.37 min Scan# 1225

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion: 63 Resp: 26879

Ion Ratio Lower Upper

63 100

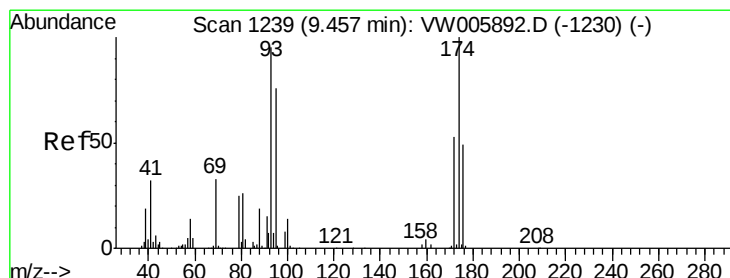
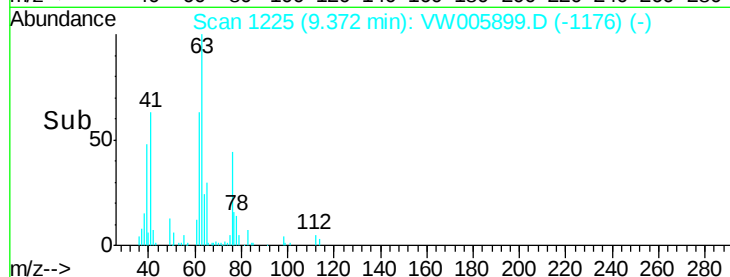
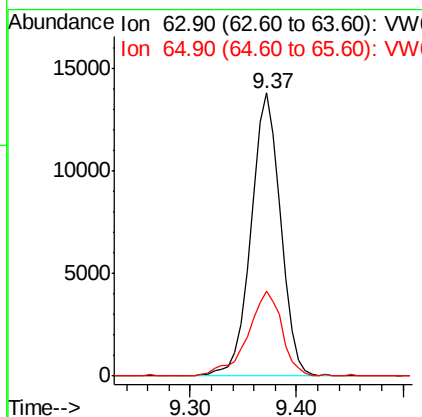
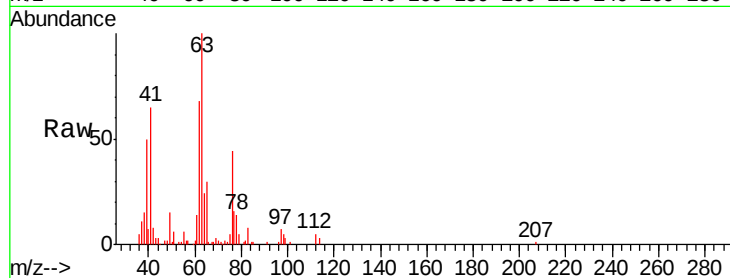
65 30.0 24.3 36.5

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#46

Dibromomethane

Concen: 9.65 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

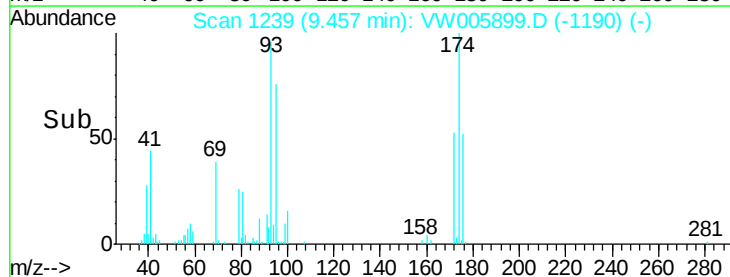
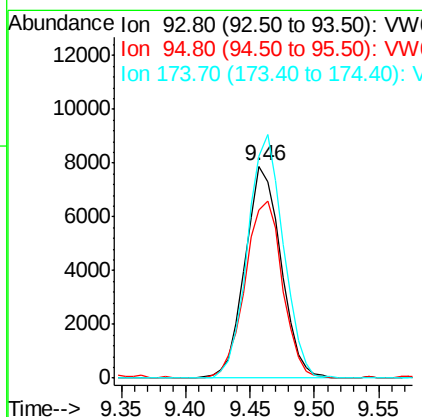
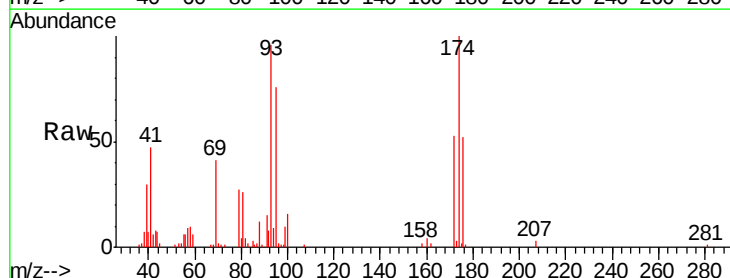
Tgt Ion: 93 Resp: 15201

Ion Ratio Lower Upper

93 100

95 86.5 66.6 99.8

174 113.9 90.4 135.6





#47

Bromodichloromethane

Concen: 9.48 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

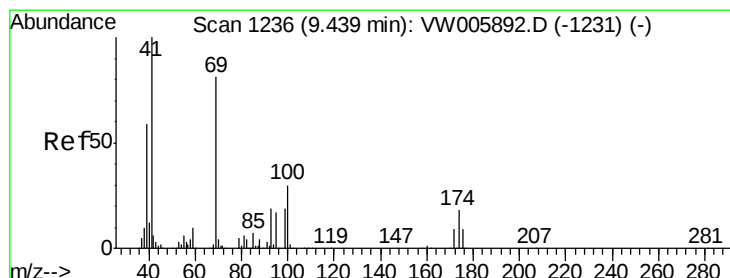
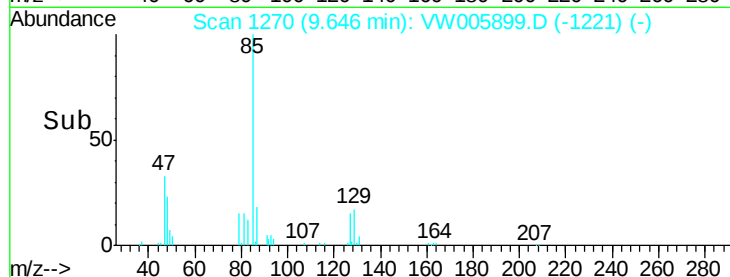
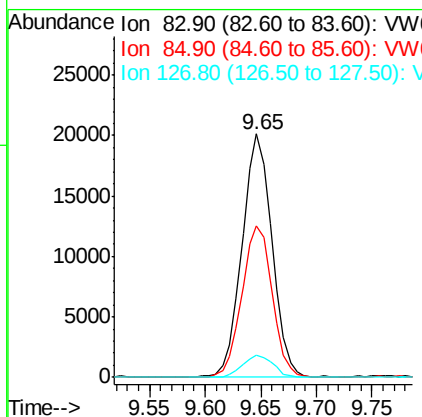
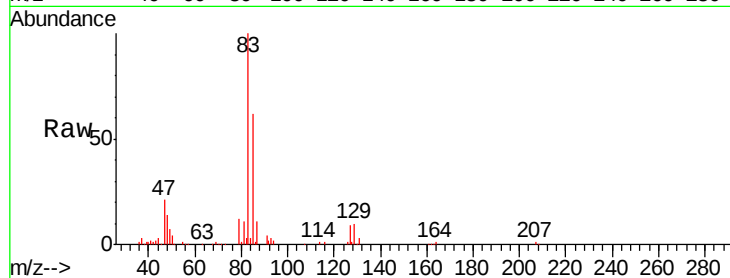
ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion:	83	Resp:	37611
Ion	Ratio	Lower	Upper
83	100		
85	62.3	53.0	79.6
127	9.1	7.4	11.0

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#48

Methyl methacrylate

Concen: 9.70 ug/l

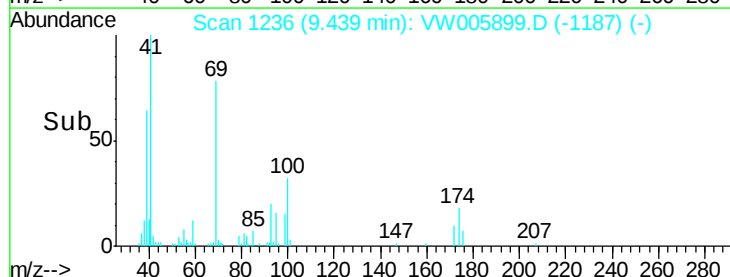
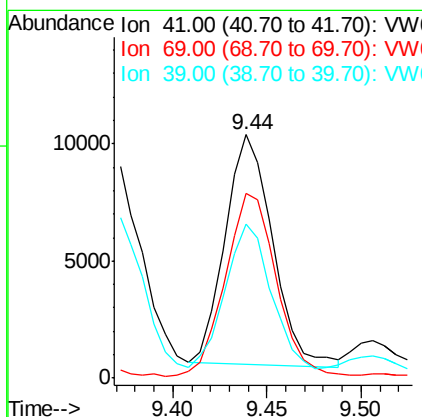
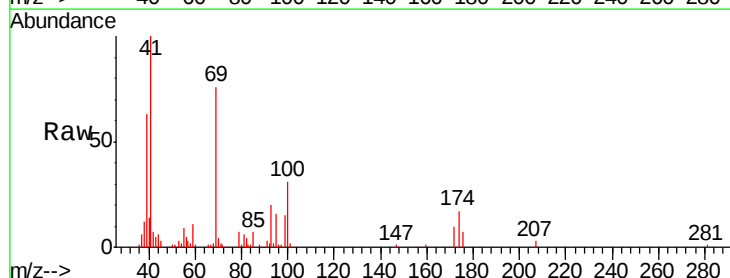
RT: 9.44 min Scan# 1236

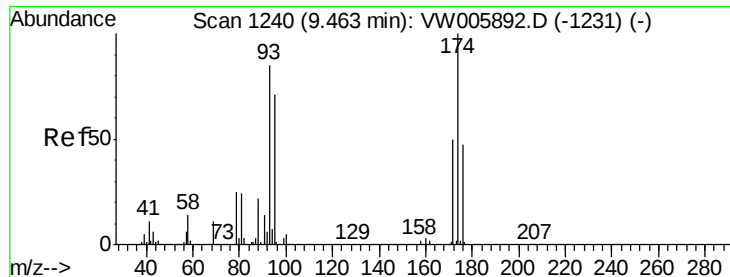
Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Tgt Ion:	41	Resp:	17104
Ion	Ratio	Lower	Upper
41	100		
69	85.0	68.7	103.1
39	61.0	50.0	75.0





#49

1,4-Dioxane

Concen: 196.55 ug/l

RT: 9.47 min Scan# 1241

Delta R.T. 0.01 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

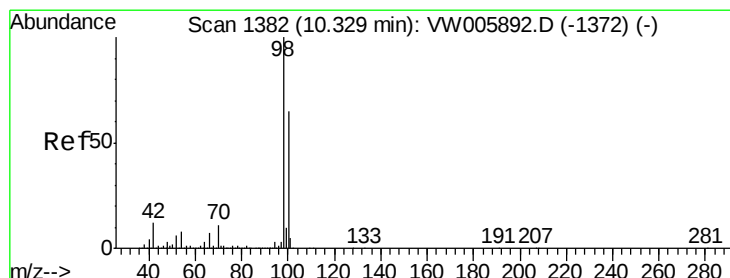
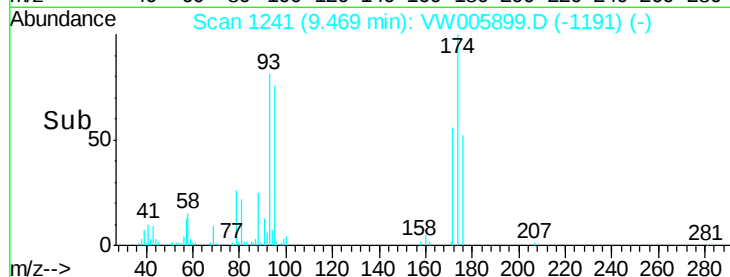
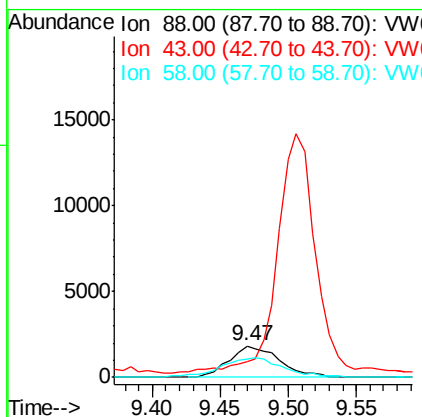
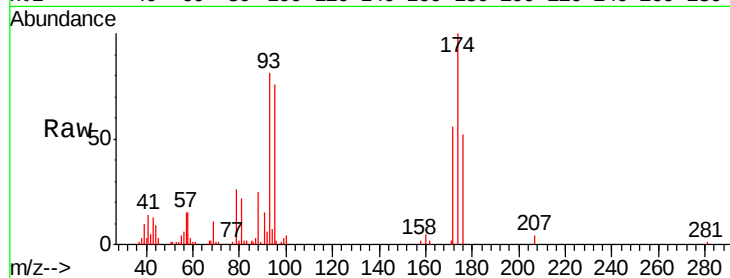
ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion:	88	Resp:	4705
Ion Ratio	Lower	Upper	
88	100		
43	0.0	0.0	0.0
58	77.7	57.7	86.5

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#50

Toluene-d8

Concen: 50.67 ug/l

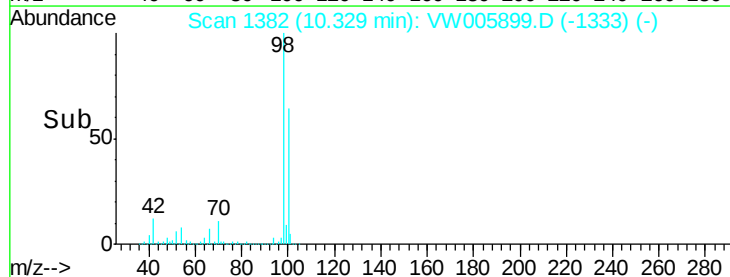
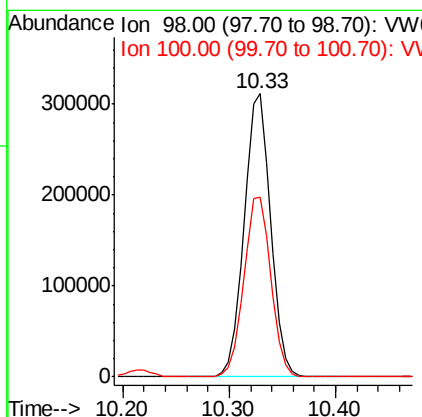
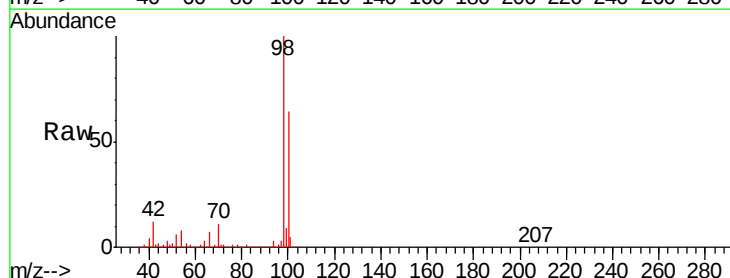
RT: 10.33 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Tgt Ion:	98	Resp:	543739
Ion Ratio	Lower	Upper	
98	100		
100	64.8	51.9	77.9





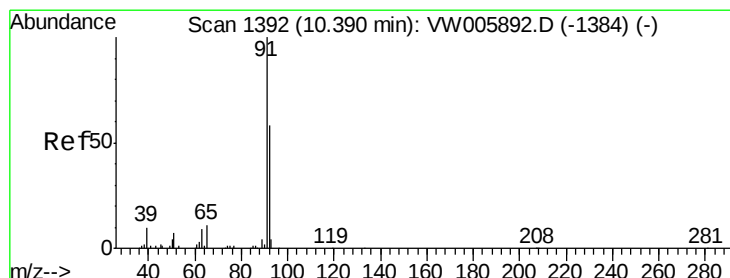
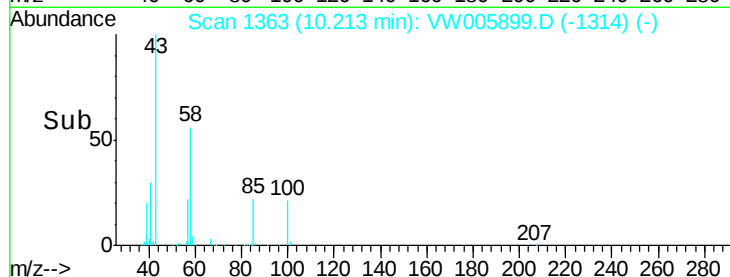
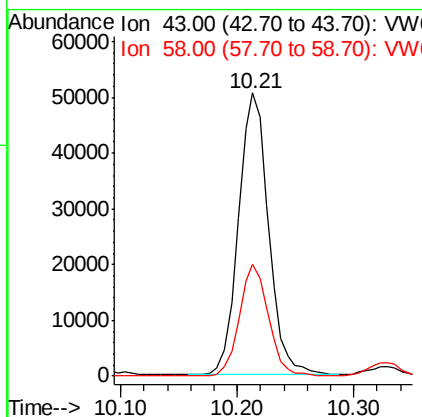
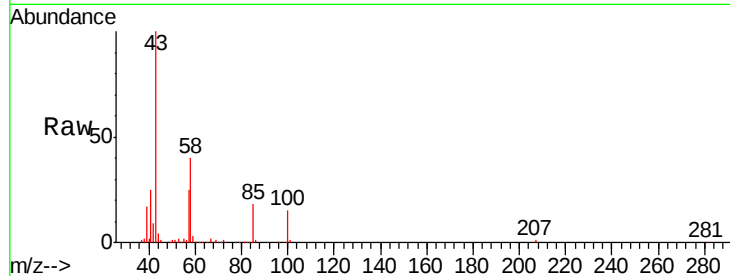
#51
 4-Methyl-2-Pentanone
 Concen: 50.49 ug/l
 RT: 10.21 min Scan# 1363
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

Tgt Ion: 43 Resp: 91029
 Ion Ratio Lower Upper
 43 100
 58 38.5 30.2 45.4

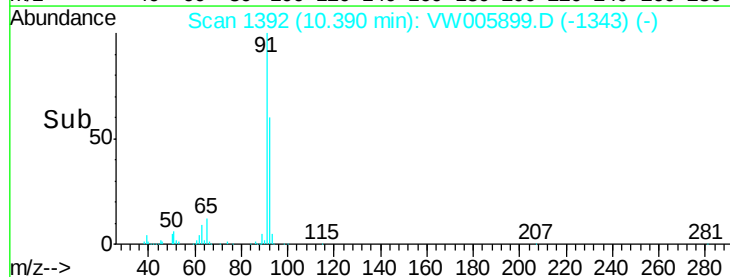
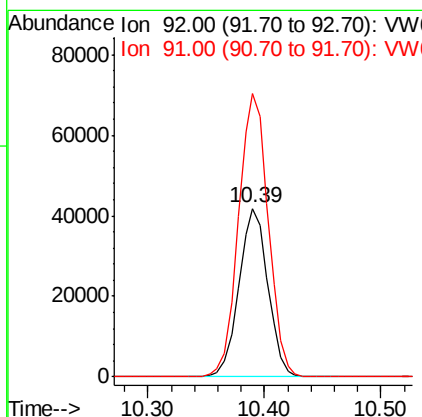
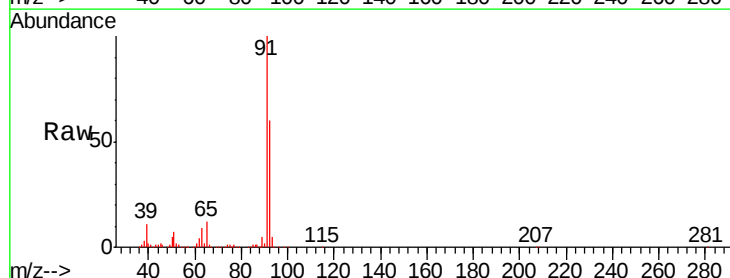
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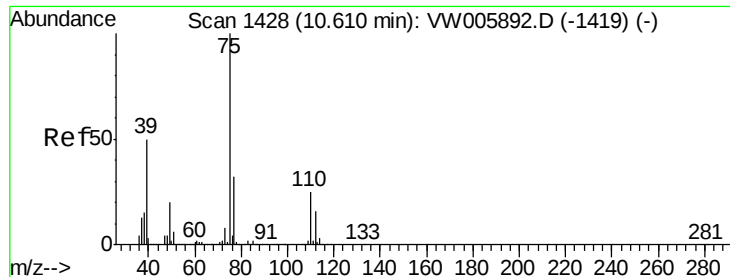
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#52
 Toluene
 Concen: 9.63 ug/l
 RT: 10.39 min Scan# 1392
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Tgt Ion: 92 Resp: 72477
 Ion Ratio Lower Upper
 92 100
 91 172.2 138.2 207.4





#53

t-1,3-Dichloropropene

Concen: 9.37 ug/l

RT: 10.61 min Scan# 1428

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion: 75 Resp: 38845

Ion Ratio Lower Upper

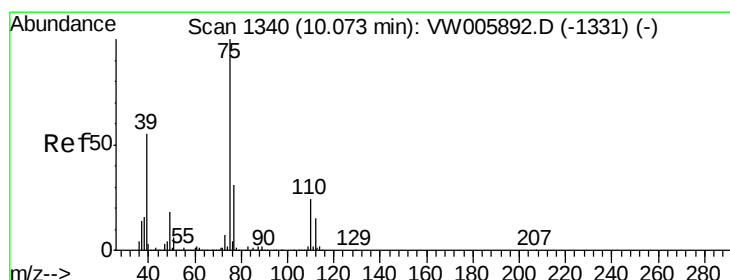
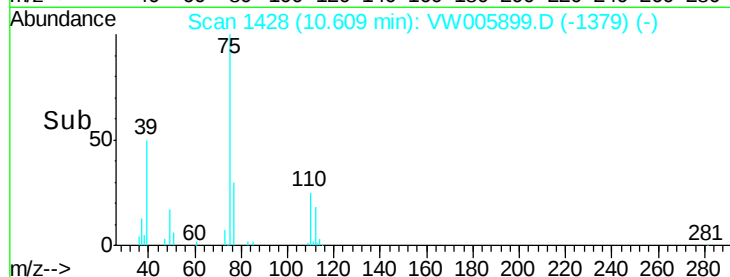
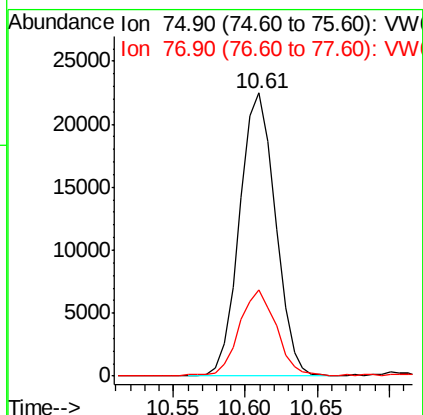
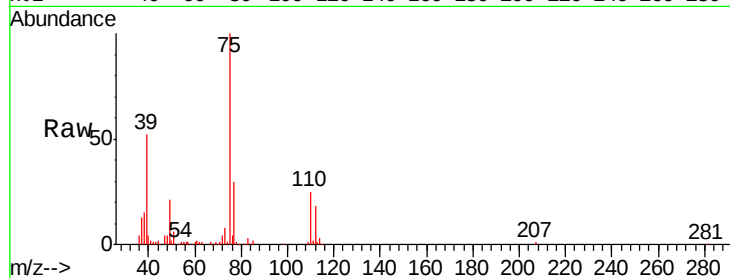
75 100

77 30.0 25.4 38.2

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#54

cis-1,3-Dichloropropene

Concen: 9.43 ug/l

RT: 10.08 min Scan# 1341

Delta R.T. 0.01 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

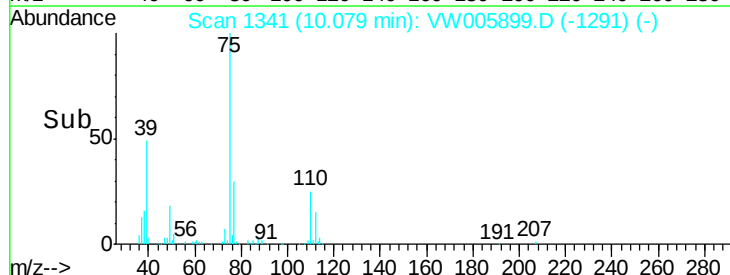
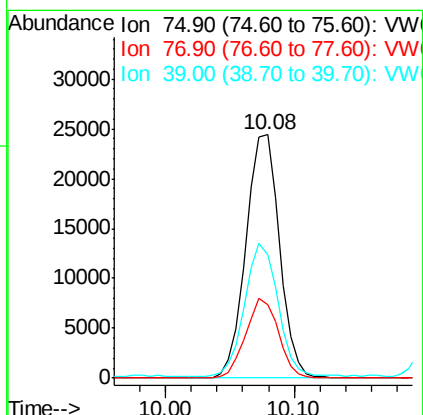
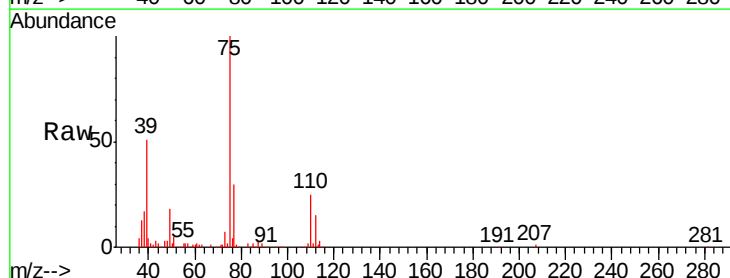
Tgt Ion: 75 Resp: 43913

Ion Ratio Lower Upper

75 100

77 30.1 24.6 37.0

39 49.8 44.2 66.4





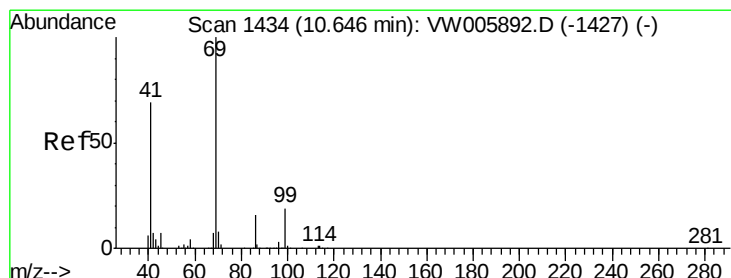
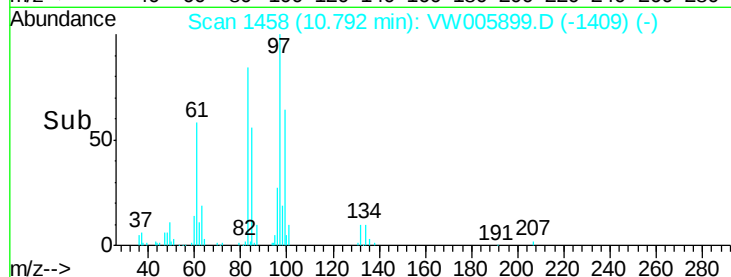
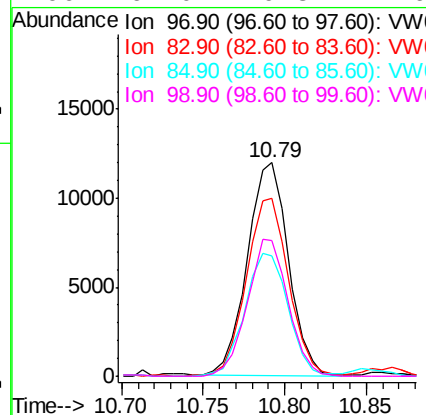
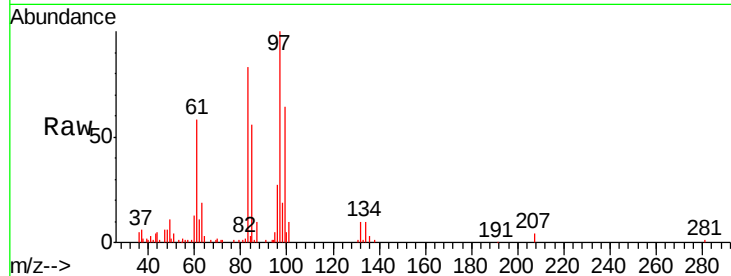
#55
 1,1,2-Trichloroethane
 Concen: 9.61 ug/l
 RT: 10.79 min Scan# 1458
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	20984		
83	83.2	66.9	100.3	
85	56.8	43.4	65.0	
99	64.0	49.8	74.6	

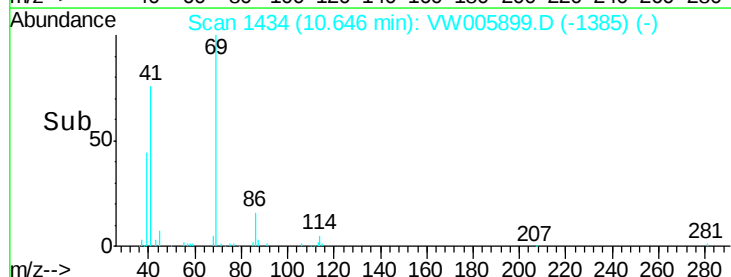
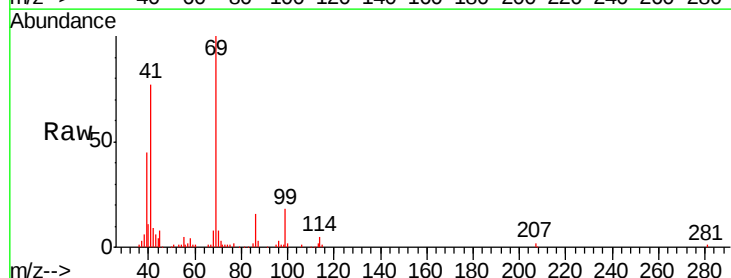
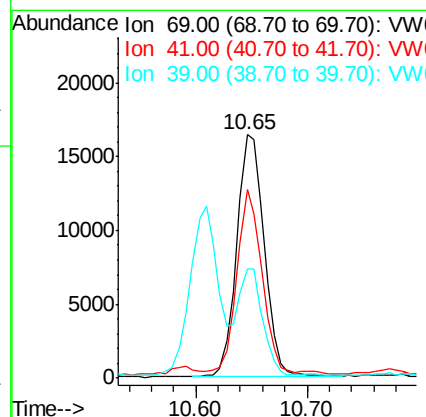
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#56
 Ethyl methacrylate
 Concen: 9.54 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Tgt Ion	Ratio	Resp	Lower	Upper
69	100	28079		
41	68.3	56.0	84.0	
39	40.8	33.5	50.3	





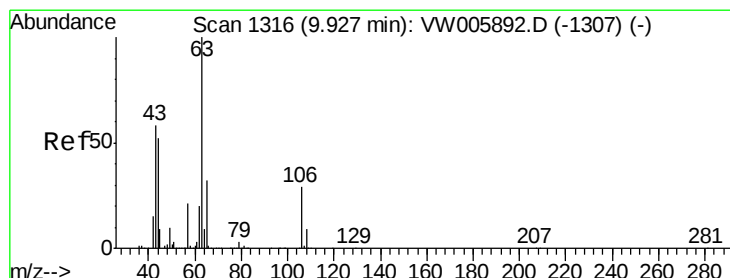
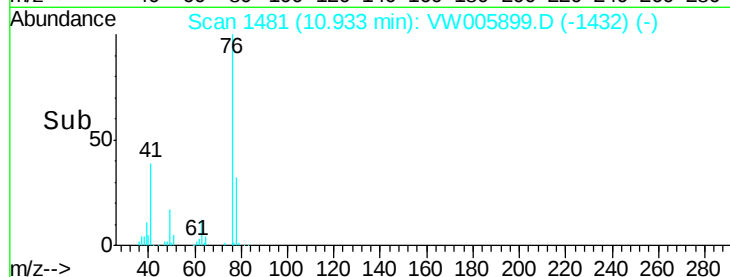
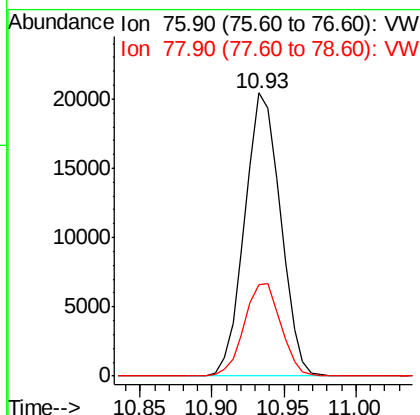
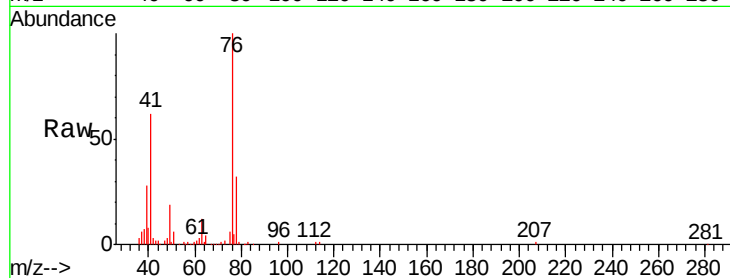
#57
 1,3-Dichloropropane
 Concen: 9.59 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
76	100		
78	33.3	25.8	38.6

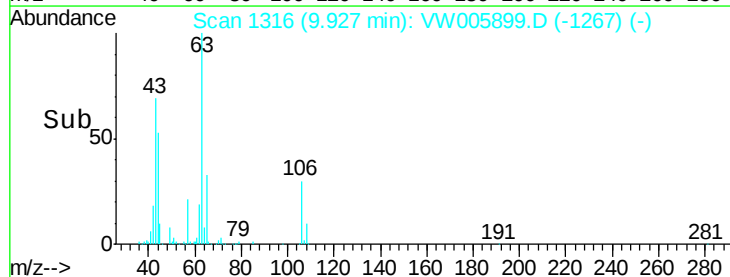
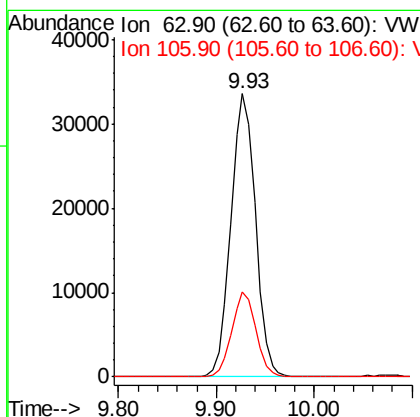
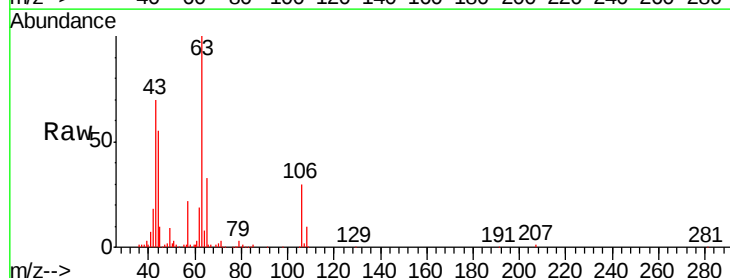
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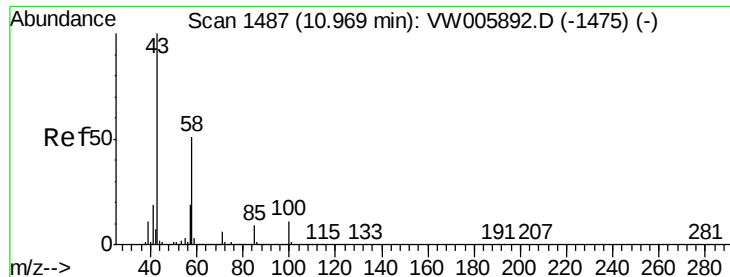
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#58
 2-Chloroethyl Vinyl ether
 Concen: 48.98 ug/l
 RT: 9.93 min Scan# 1316
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Tgt Ion	Ratio	Lower	Upper
63	100		
106	29.2	23.6	35.4





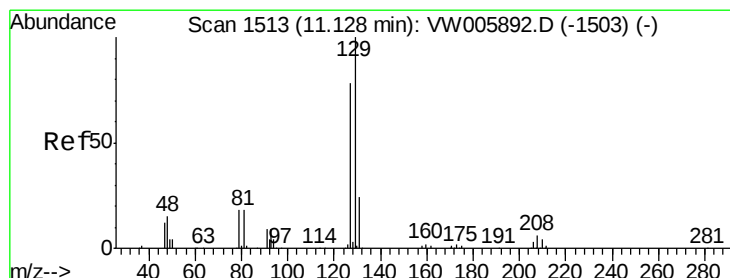
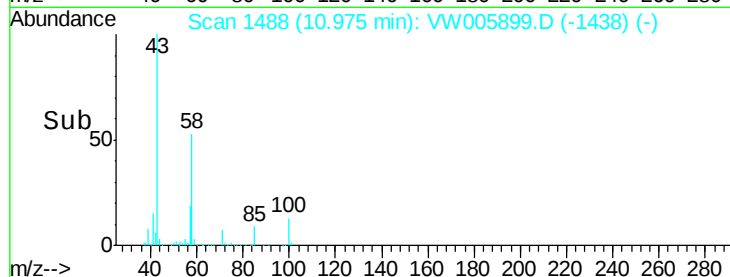
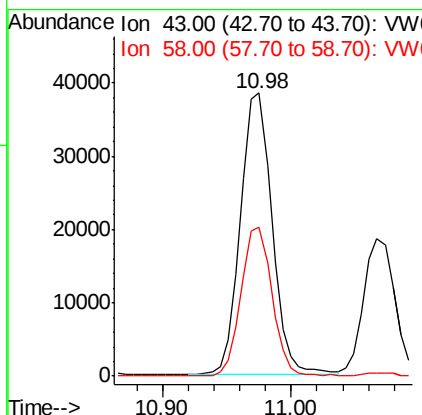
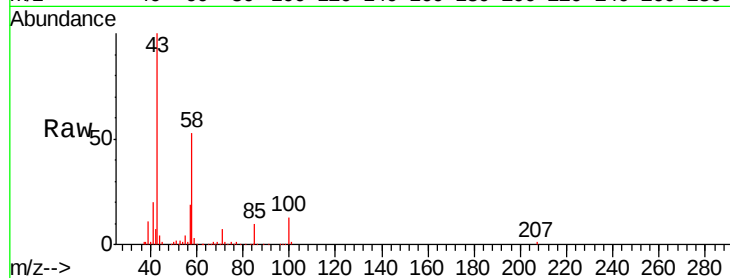
#59
2-Hexanone
Concen: 50.46 ug/l
RT: 10.98 min Scan# 1488
Delta R.T. 0.01 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion: 43 Resp: 65238
Ion Ratio Lower Upper
43 100
58 52.3 25.7 77.1

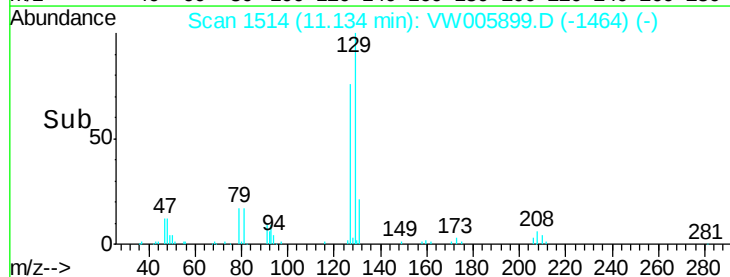
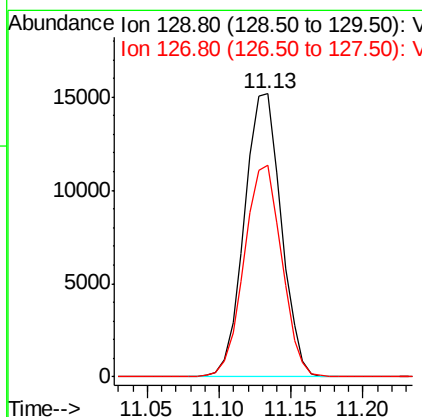
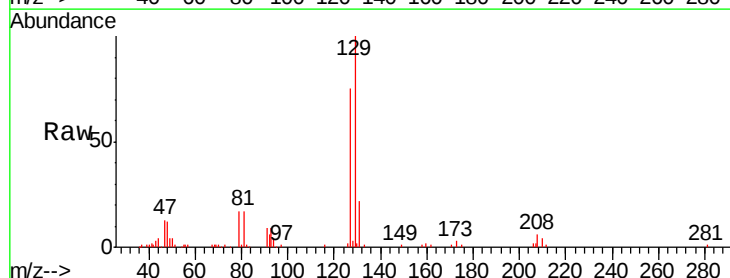
Manual Integrations
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#60
Dibromochloromethane
Concen: 9.53 ug/l
RT: 11.13 min Scan# 1514
Delta R.T. 0.01 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Tgt Ion: 129 Resp: 26858
Ion Ratio Lower Upper
129 100
127 76.2 38.5 115.5





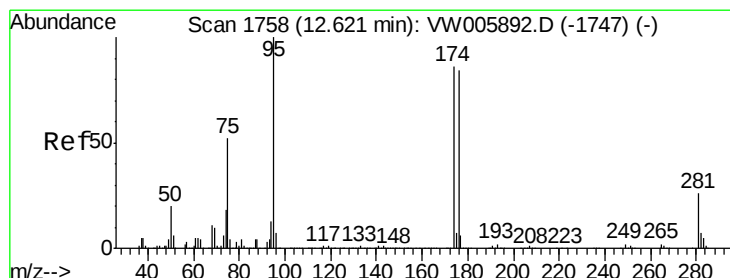
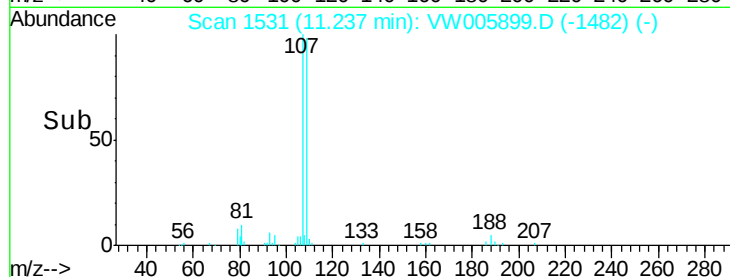
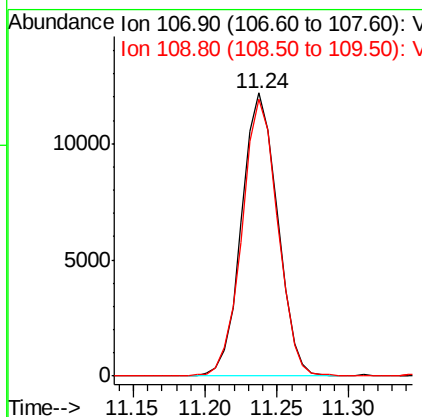
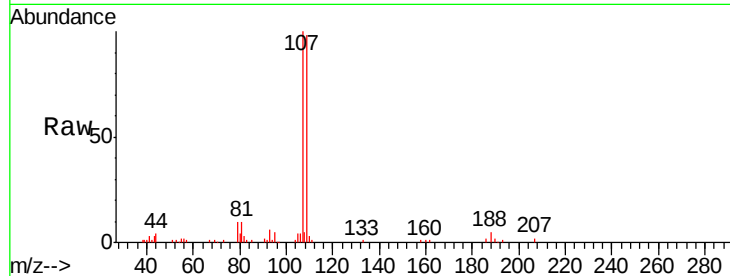
#61
 1,2-Dibromoethane
 Concen: 9.66 ug/l
 RT: 11.24 min Scan# 1531
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
107	100		
109	96.8	75.8	113.8

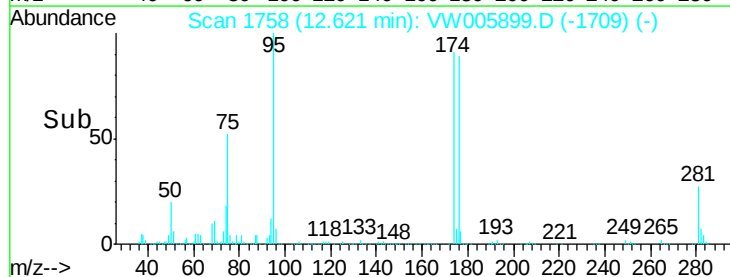
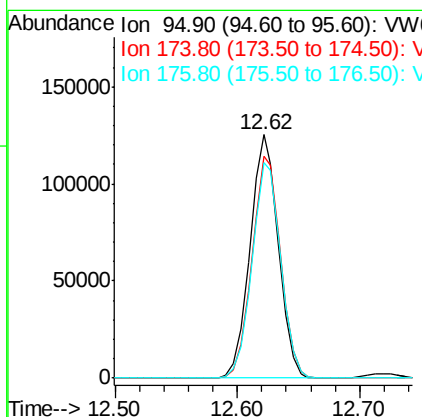
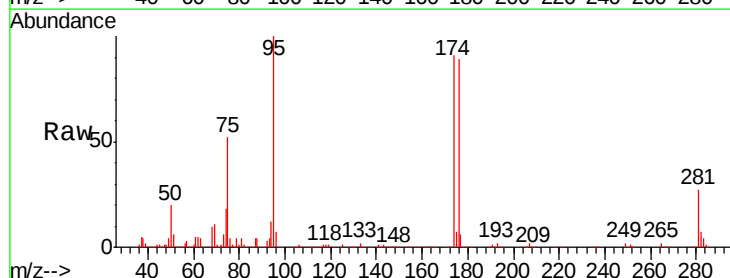
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#62
 4-Bromofluorobenzene
 Concen: 49.30 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Tgt Ion	Ratio	Lower	Upper
95	100		
174	92.0	0.0	176.4
176	89.8	0.0	173.0





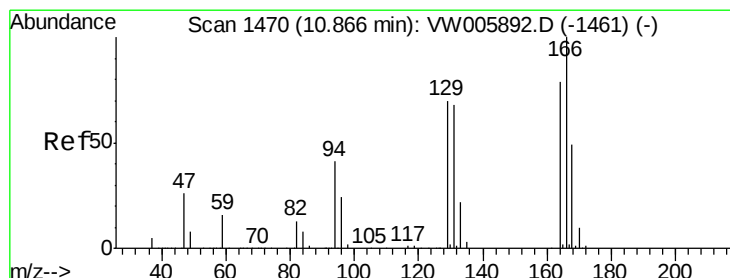
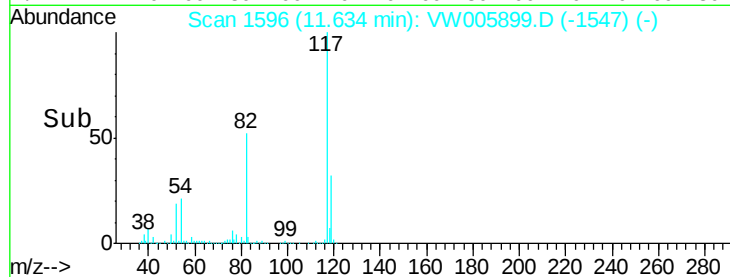
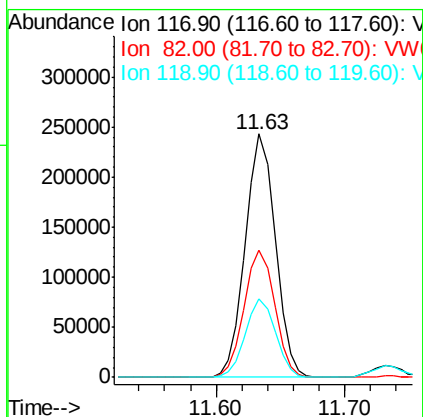
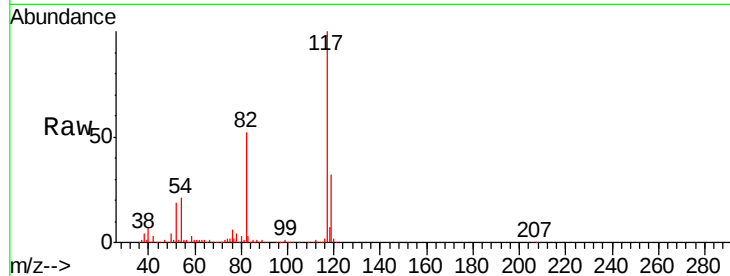
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	393273		
82	52.2		43.5	65.3
119	32.1		25.4	38.2

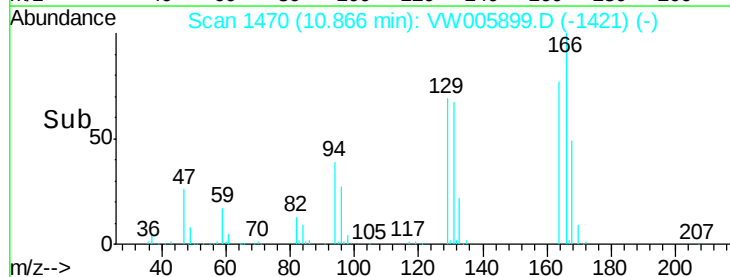
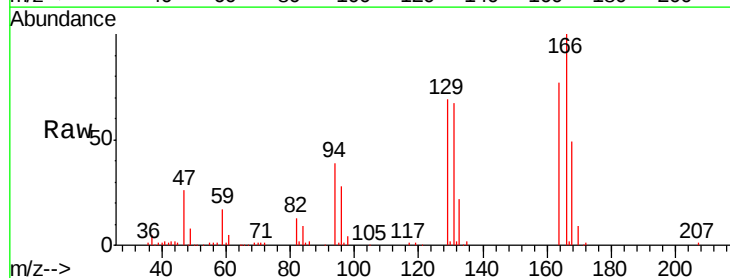
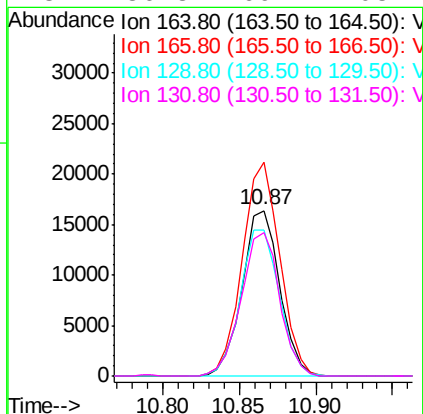
Manual Integrations
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#64
Tetrachloroethene
Concen: 9.55 ug/l
RT: 10.87 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	27963		
166	129.1		101.5	152.3
129	88.5		71.1	106.7
131	86.3		69.1	103.7





#65

Chlorobenzene

Concen: 9.68 ug/l

RT: 11.66 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion:112 Resp: 81547

Ion Ratio Lower Upper

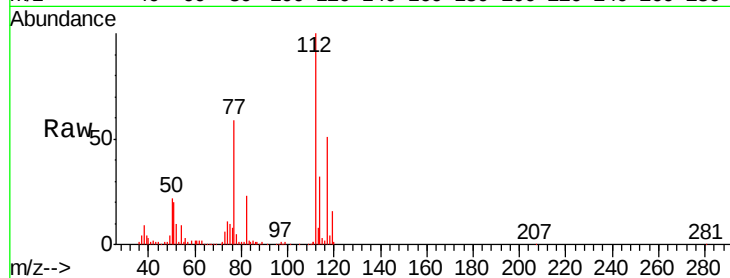
112 100

114 32.0 25.6 38.4

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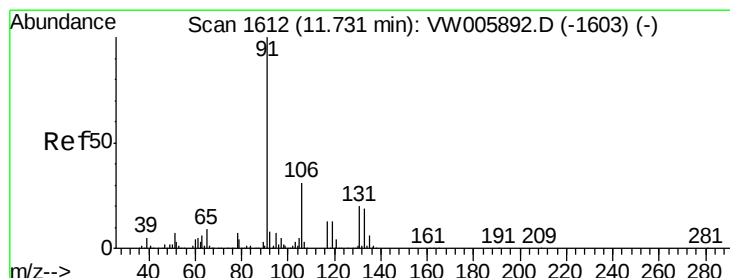
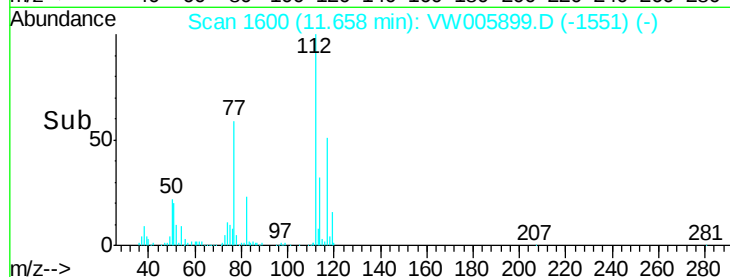
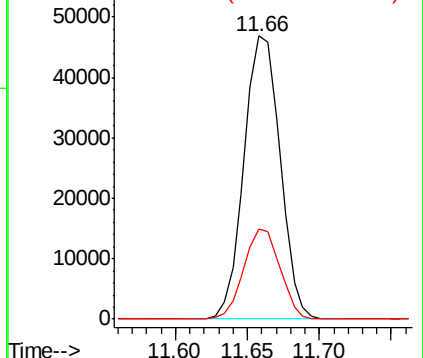
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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 9.74 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

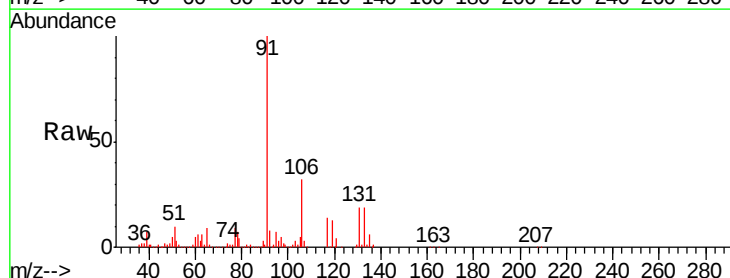
Tgt Ion:131 Resp: 30075

Ion Ratio Lower Upper

131 100

133 94.2 48.2 144.6

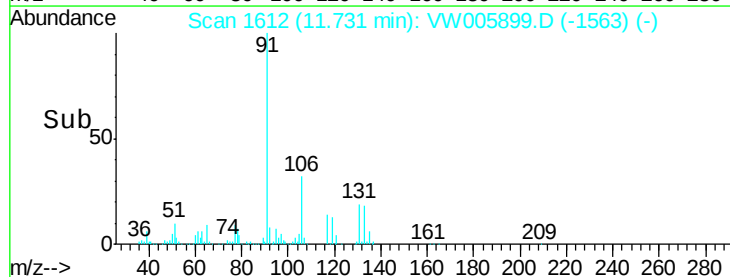
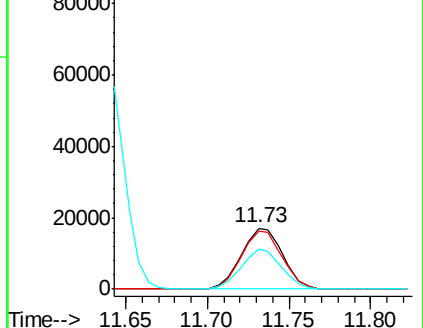
119 64.6 32.5 97.5

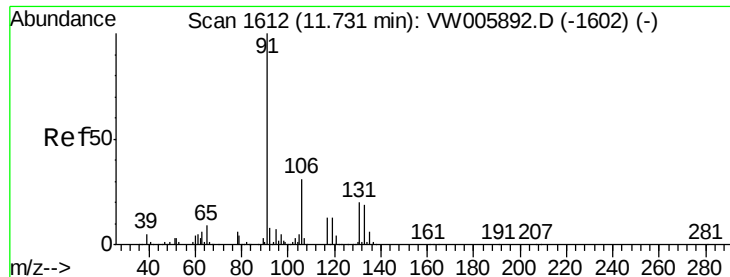


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 9.62 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion: 91 Resp: 143196

Ion Ratio Lower Upper

91 100

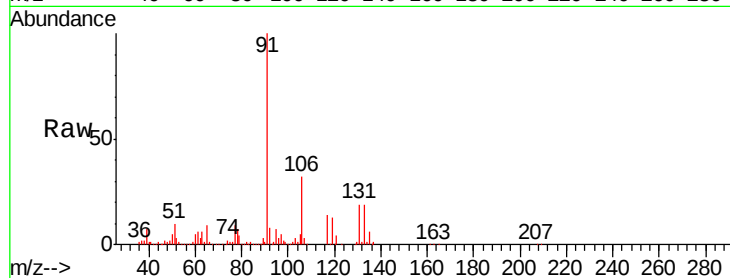
106 31.6 25.0 37.6

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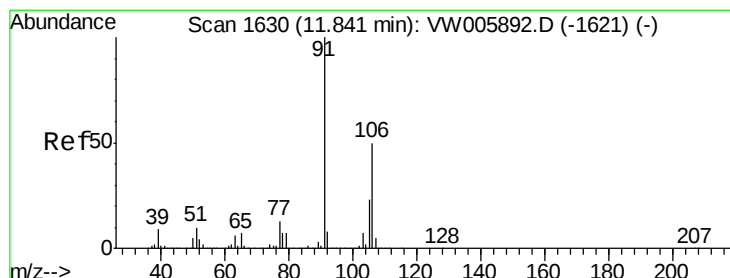
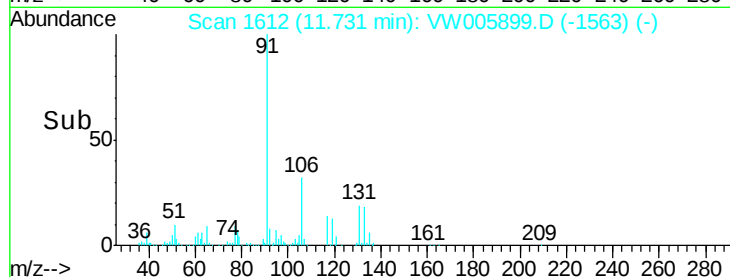
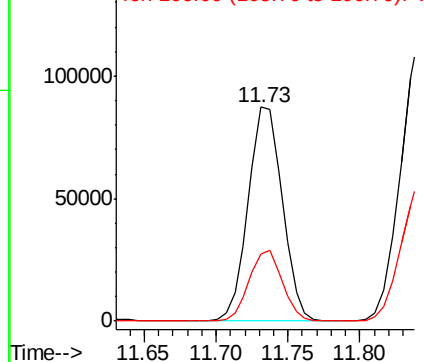
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Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 19.09 ug/l

RT: 11.84 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VW005899.D

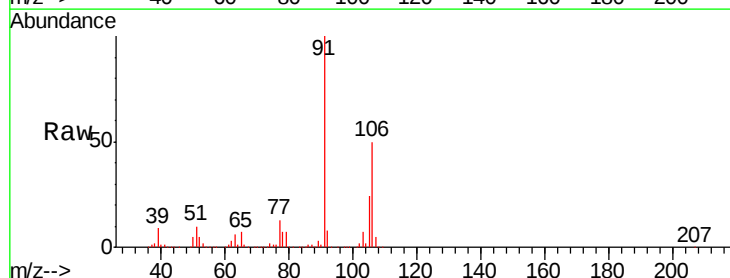
Acq: 08 Oct 2018 16:51

Tgt Ion: 106 Resp: 110995

Ion Ratio Lower Upper

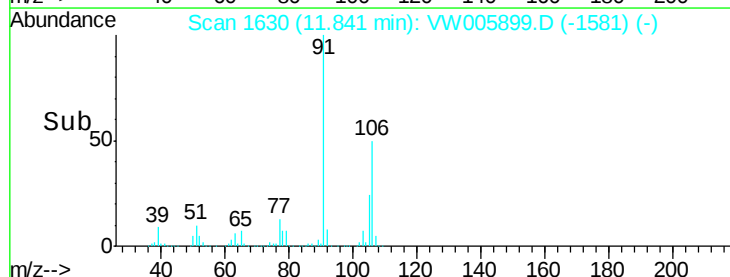
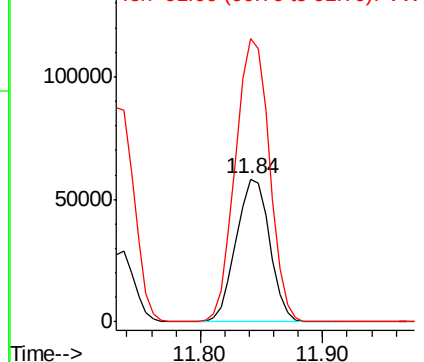
106 100

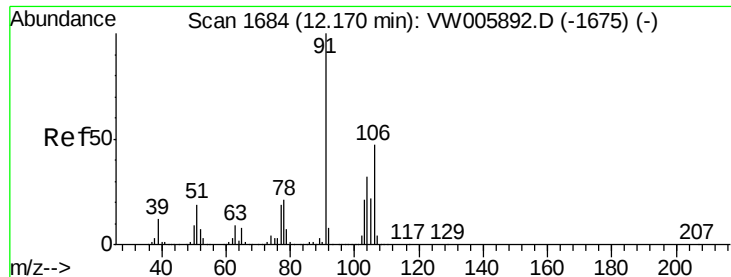
91 200.9 160.2 240.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





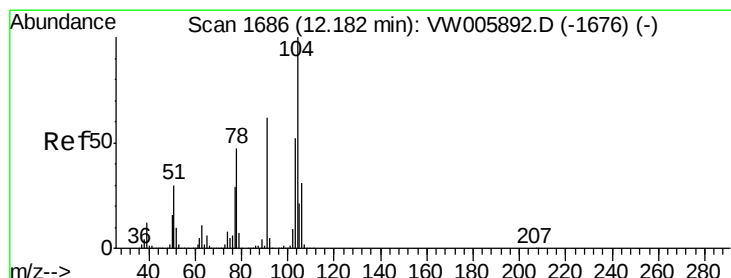
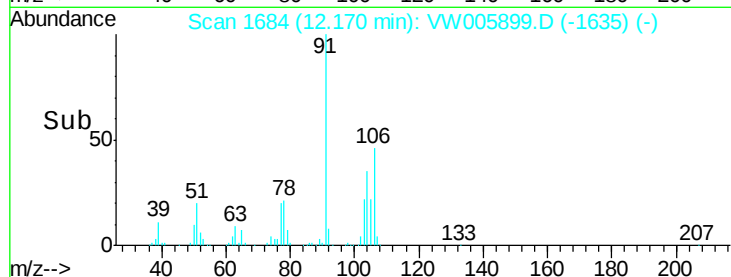
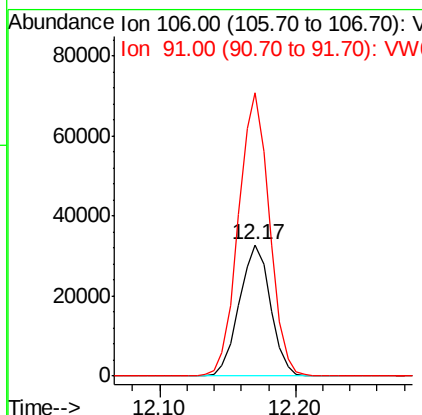
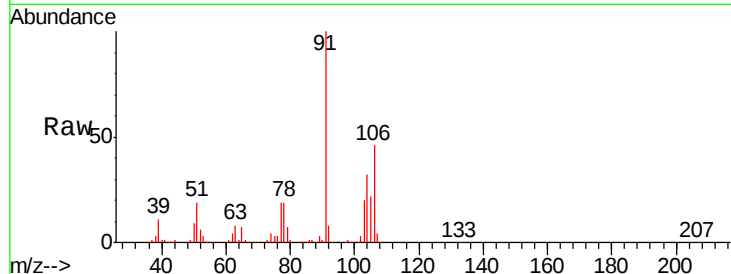
#69
o-Xylene
Concen: 9.44 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion:106 Resp: 52569
Ion Ratio Lower Upper
106 100
91 214.3 106.2 318.5

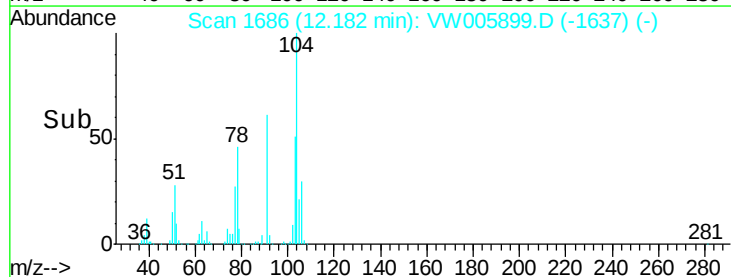
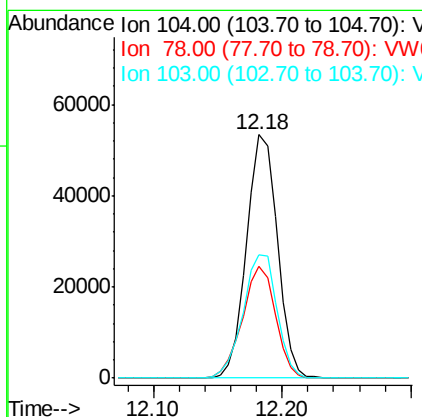
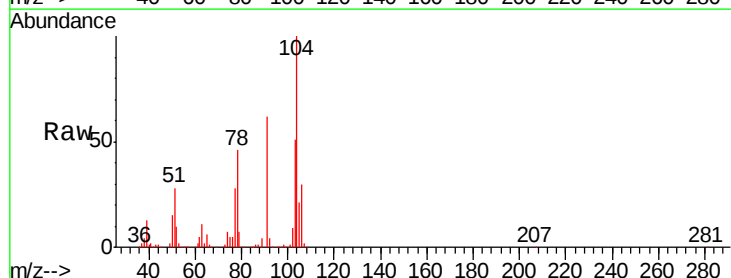
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#70
Styrene
Concen: 9.55 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Tgt Ion:104 Resp: 88208
Ion Ratio Lower Upper
104 100
78 49.5 40.4 60.6
103 55.9 44.2 66.2





#71

Bromoform

Concen: 9.42 ug/l

RT: 12.35 min Scan# 1714

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

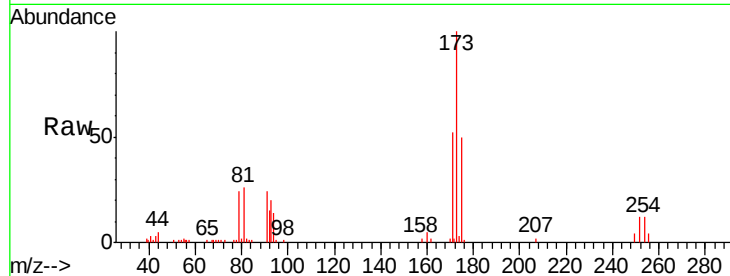
ClientSampleId :

LOQ-SOIL-02-QT4-2018

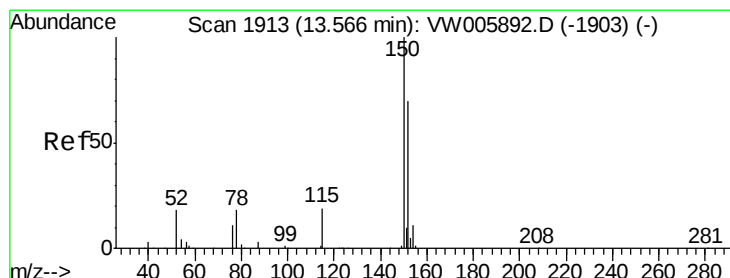
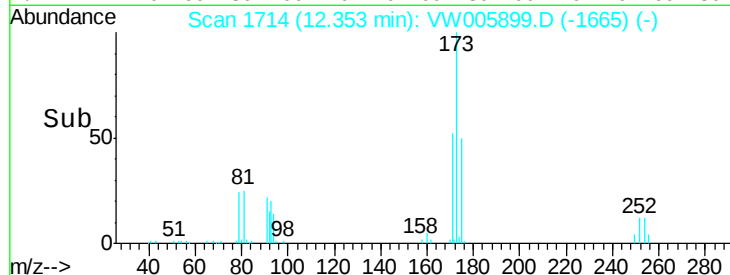
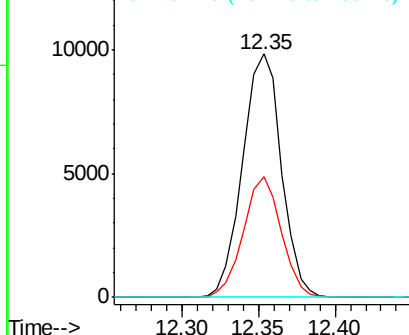
Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.6	24.7	74.1
254	0.0	0.2	0.2

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

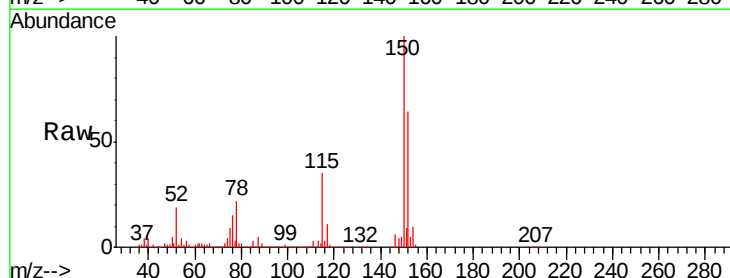
RT: 13.57 min Scan# 1913

Delta R.T. -0.00 min

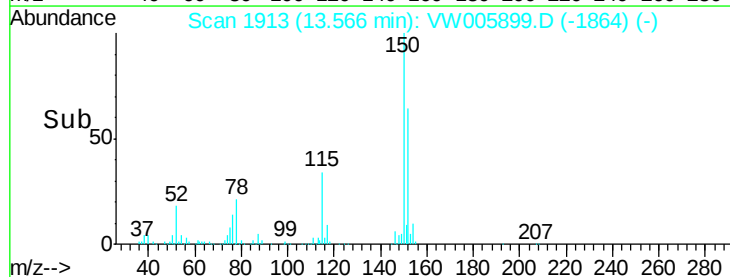
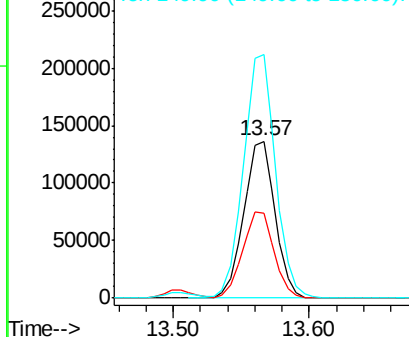
Lab File: VW005899.D

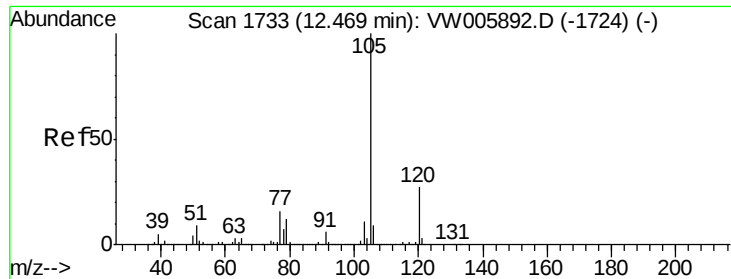
Acq: 08 Oct 2018 16:51

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.3	28.3	85.0
150	159.3	0.0	349.2



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: 9.39 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion: 105 Resp: 149658

Ion Ratio Lower Upper

105 100

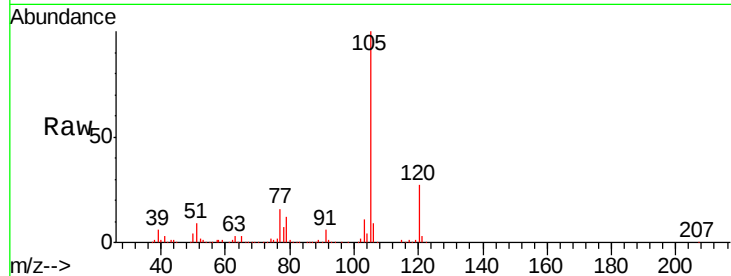
120 27.2 13.6 40.8

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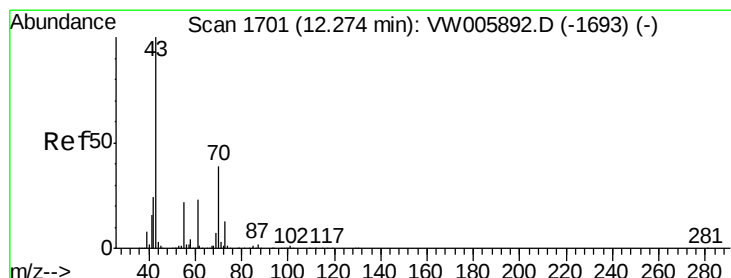
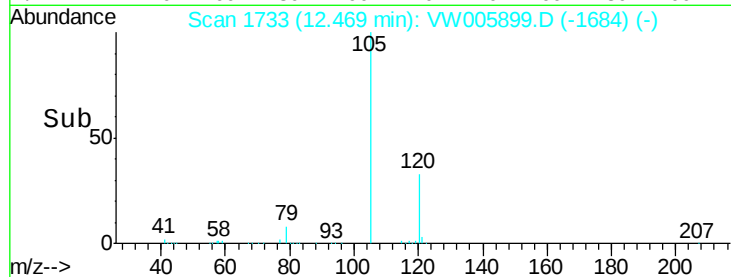
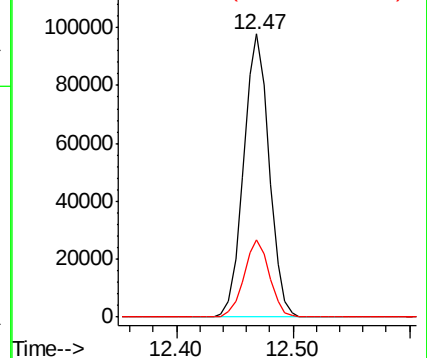
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 9.33 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Tgt Ion: 43 Resp: 35321

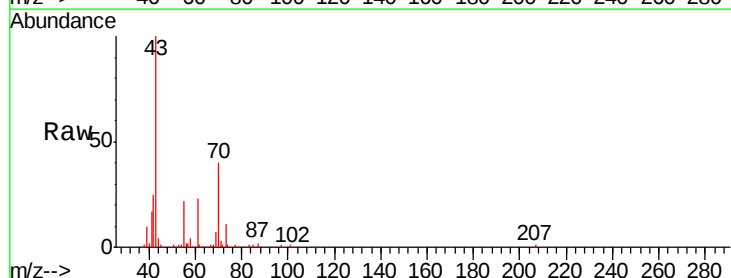
Ion Ratio Lower Upper

43 100

70 40.2 31.6 47.4

55 24.1 17.9 26.9

61 23.4 18.6 28.0

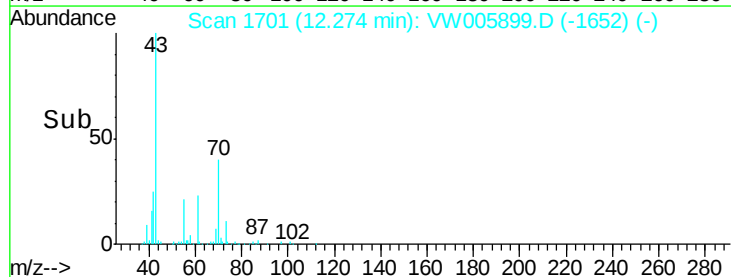
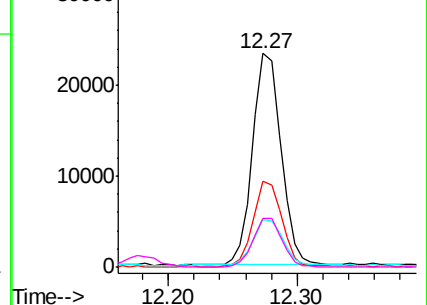


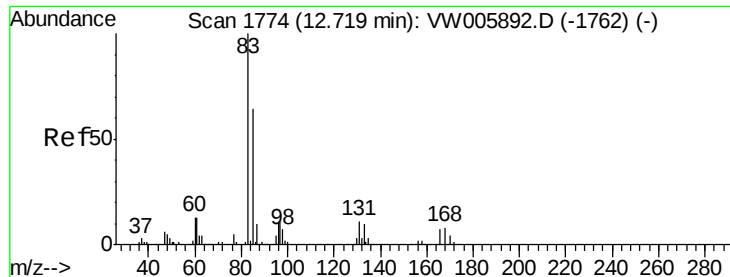
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW





#75

1,1,2,2-Tetrachloroethane

Concen: 9.72 ug/l

RT: 12.72 min Scan# 1774

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

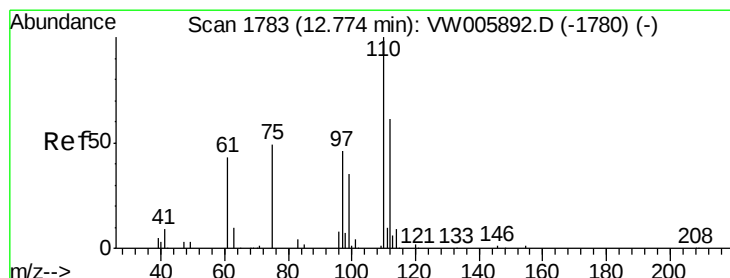
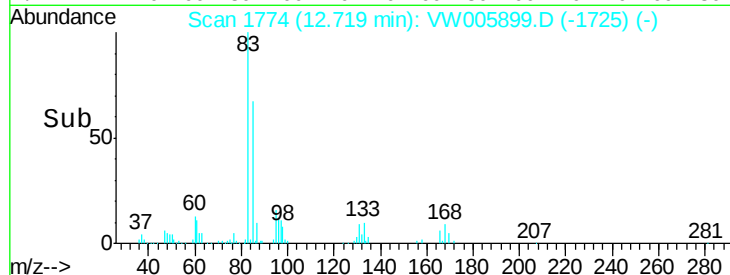
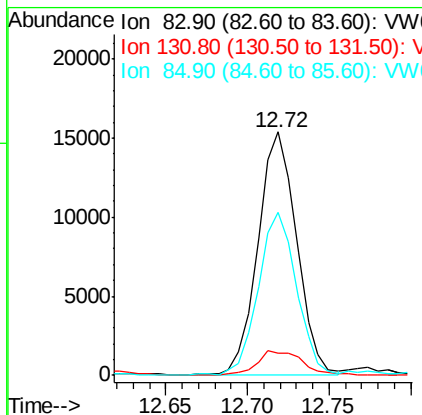
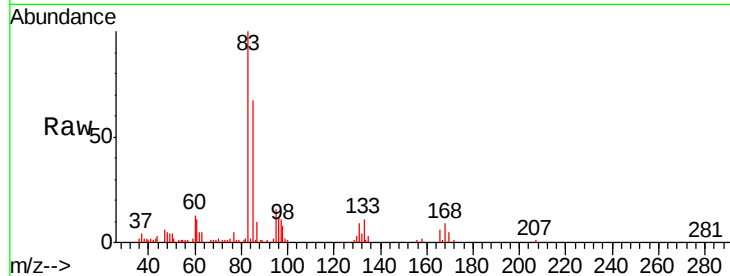
ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion:	83	Resp:	25399
Ion Ratio	Lower	Upper	
83	100		
131	11.7	5.8	17.3
85	66.0	32.4	97.0

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#76

1,2,3-Trichloropropane

Concen: 9.93 ug/l m

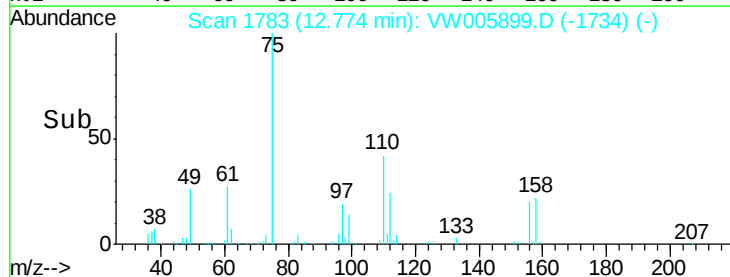
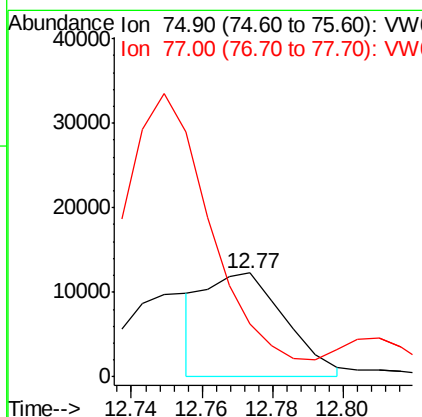
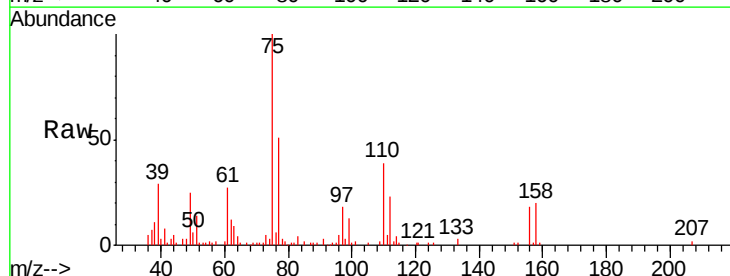
RT: 12.77 min Scan# 1783

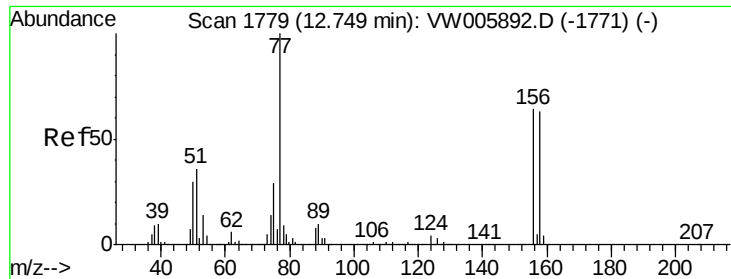
Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Tgt Ion:	75	Resp:	19372
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





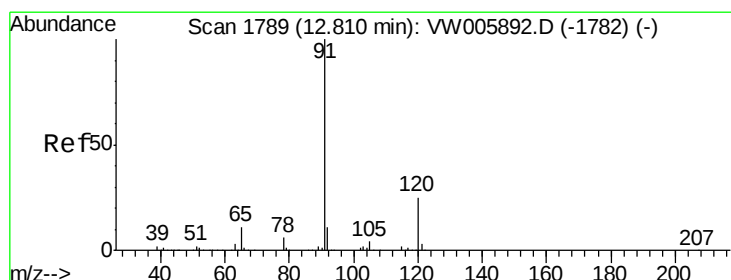
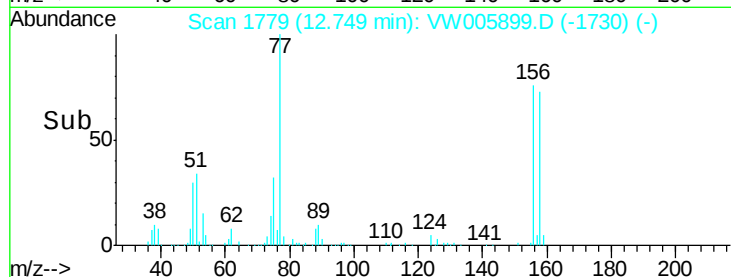
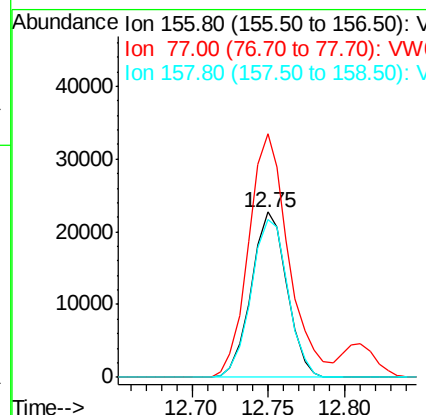
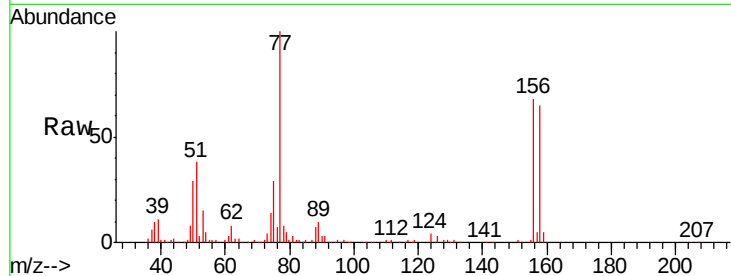
#77
Bromobenzene
Concen: 9.77 ug/l
RT: 12.75 min Scan# 1779
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
156	100		
77	165.6	85.8	257.4
158	98.2	49.1	147.4

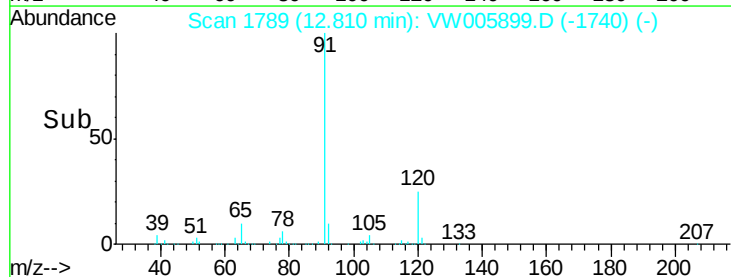
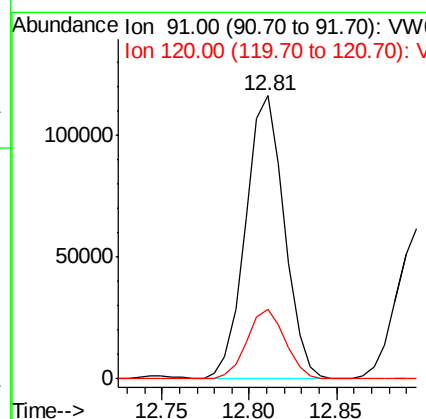
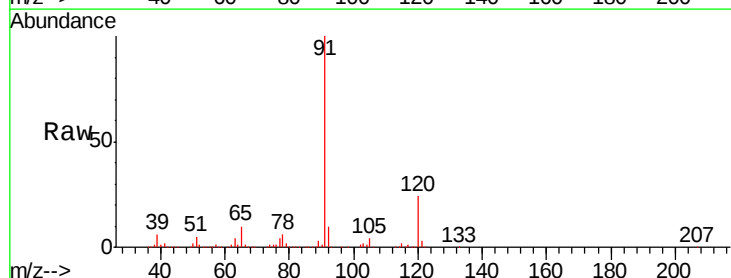
Manual Integrations
APPROVED

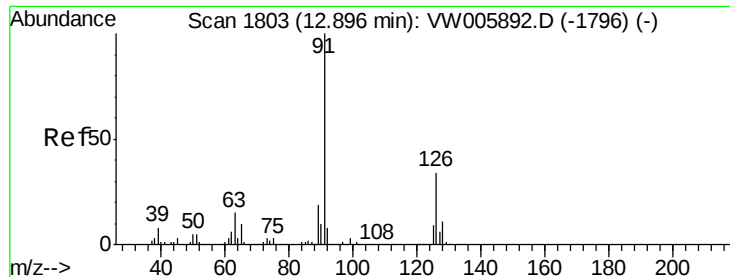
apatel
10/9/2018 4:26:28 PM



#78
n-propylbenzene
Concen: 9.51 ug/l
RT: 12.81 min Scan# 1789
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Tgt Ion	Ratio	Lower	Upper
91	100		
120	24.6	12.0	36.0





#79

2-Chlorotoluene

Concen: 9.35 ug/l

RT: 12.90 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion: 91 Resp: 98946

Ion Ratio Lower Upper

91 100

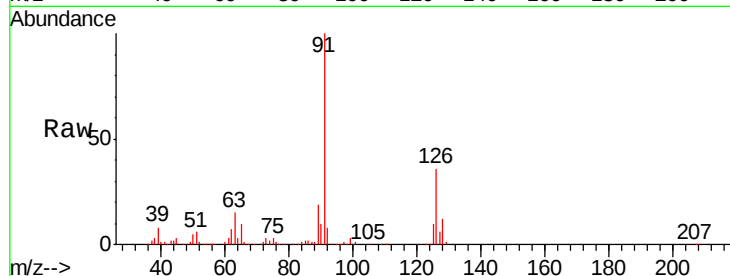
126 35.7 17.5 52.5

Manual Integrations

APPROVED

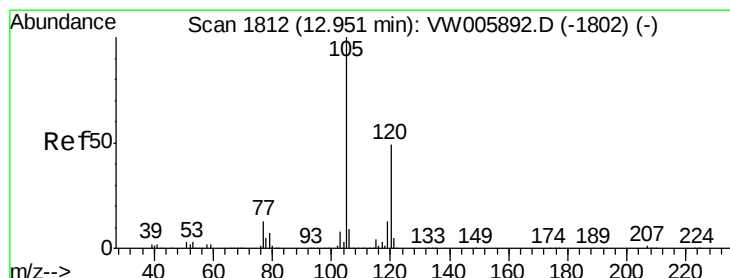
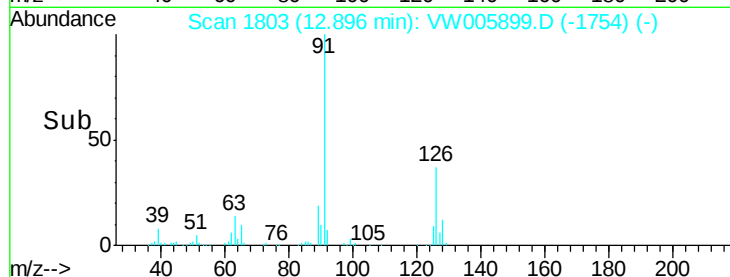
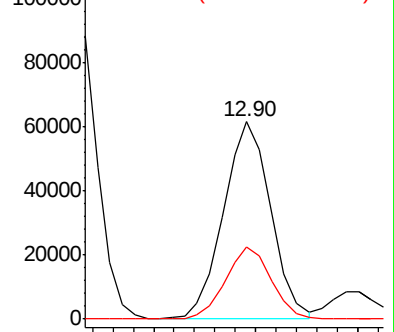
apatel

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Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 9.41 ug/l

RT: 12.95 min Scan# 1812

Delta R.T. -0.00 min

Lab File: VW005899.D

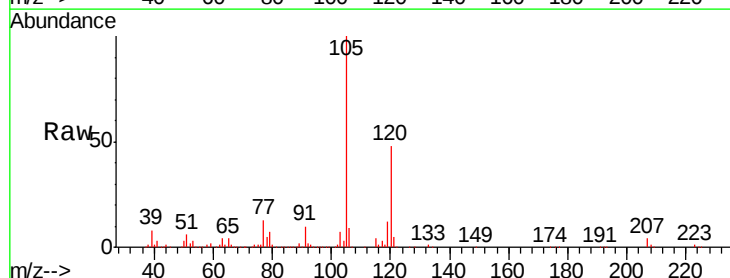
Acq: 08 Oct 2018 16:51

Tgt Ion: 105 Resp: 126726

Ion Ratio Lower Upper

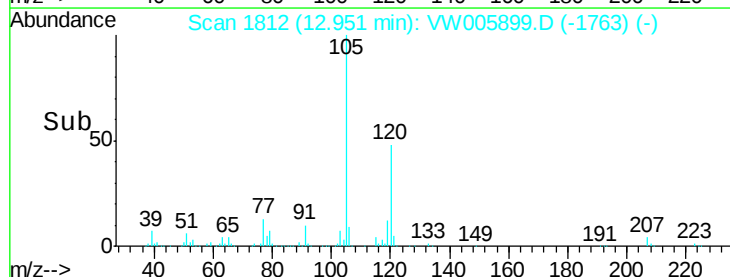
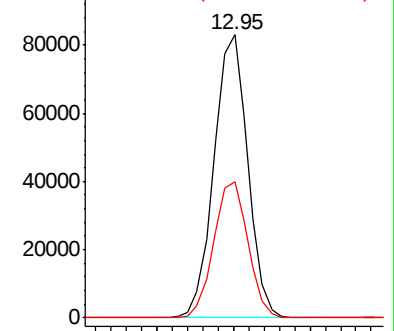
105 100

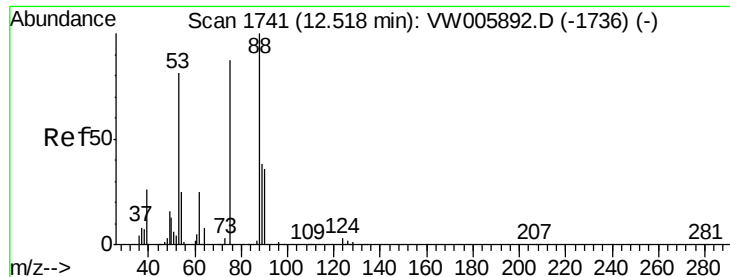
120 48.7 24.6 73.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





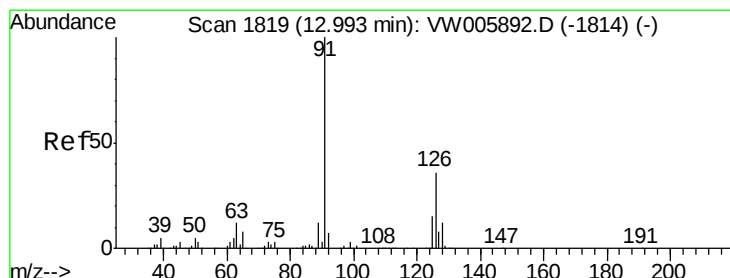
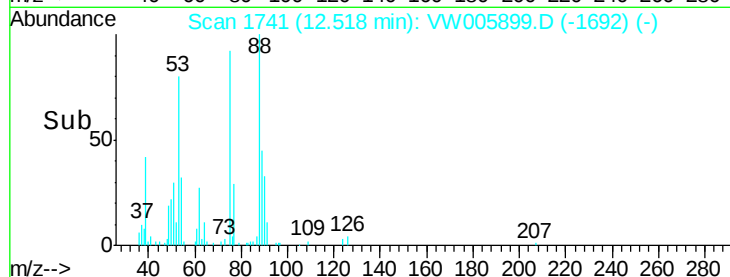
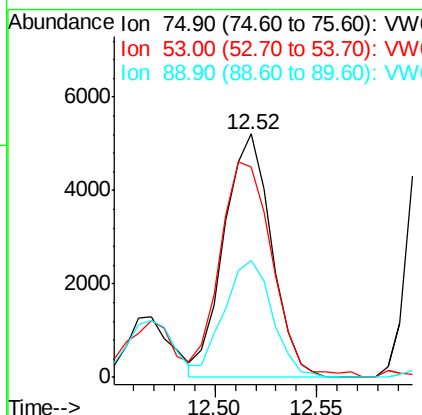
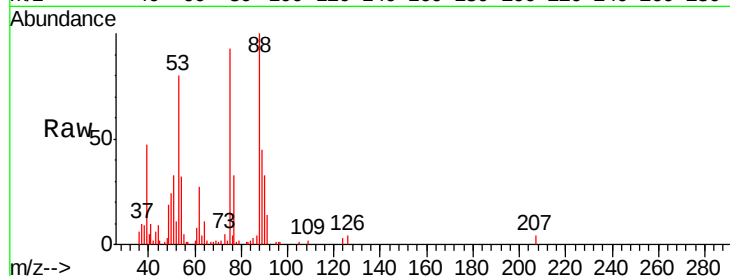
#81
trans-1,4-Dichloro-2-butene
Concen: 9.08 ug/l
RT: 12.52 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
75	100		
53	97.8	76.5	114.7
89	49.3	37.6	56.4

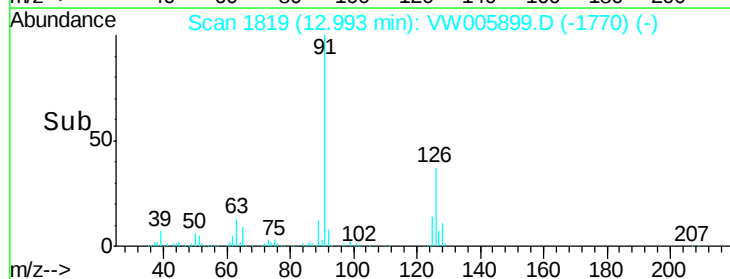
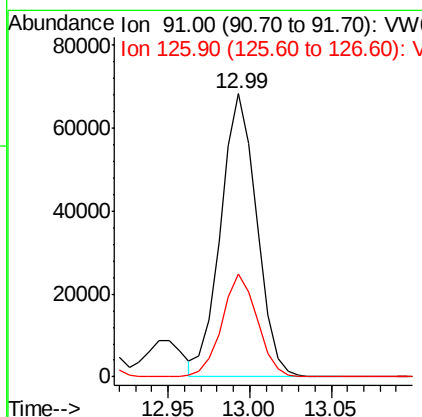
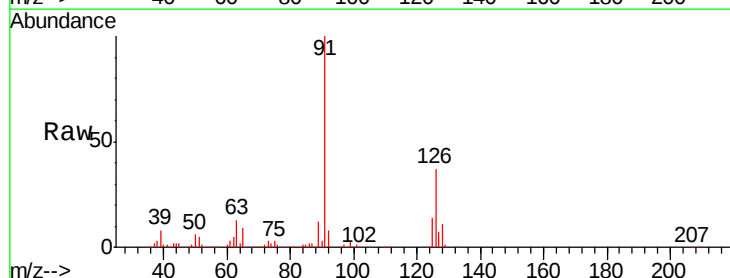
Manual Integrations
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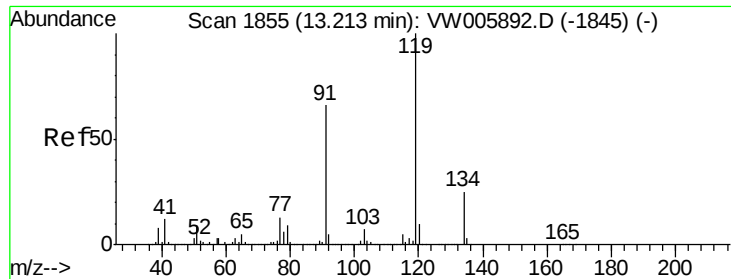
apatel
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#82
4-Chlorotoluene
Concen: 9.39 ug/l
RT: 12.99 min Scan# 1819
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.7	17.4	52.2





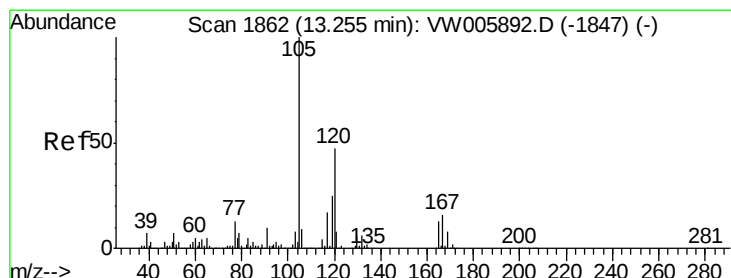
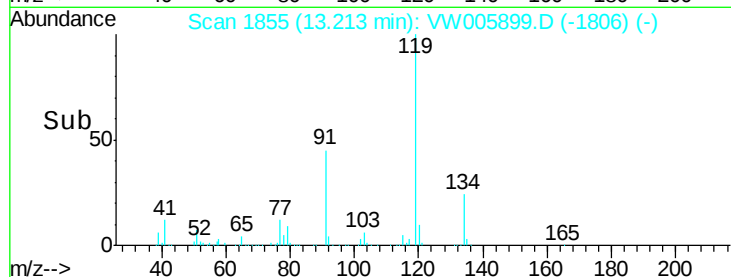
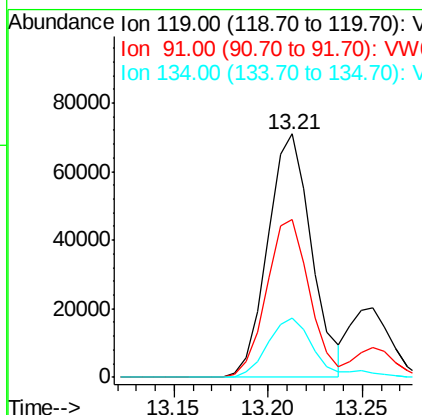
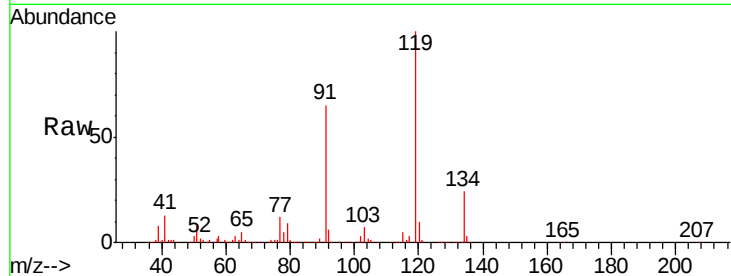
#83
 tert-Butylbenzene
 Concen: 9.55 ug/l
 RT: 13.21 min Scan# 1855
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	114356		
91	63.7	32.4	97.0	
134	26.4	13.2	39.6	

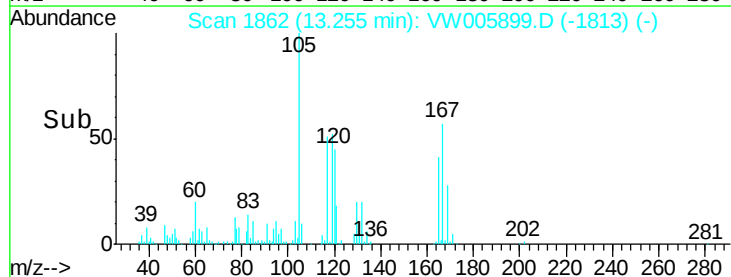
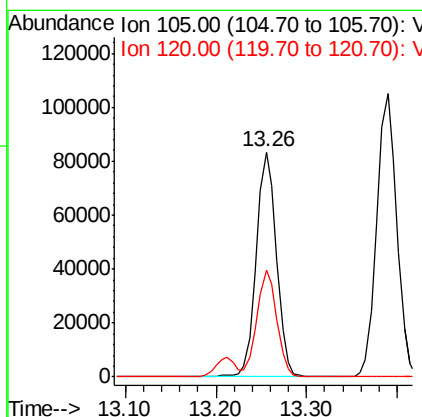
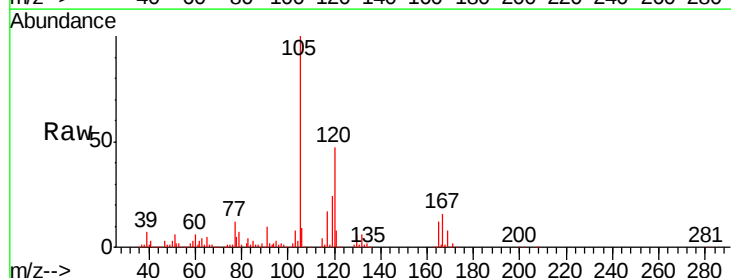
Manual Integrations
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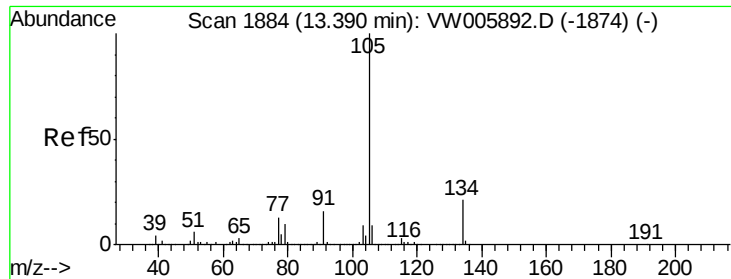
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#84
 1,2,4-Trimethylbenzene
 Concen: 9.45 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	128343		
120	46.2	22.8	68.3	





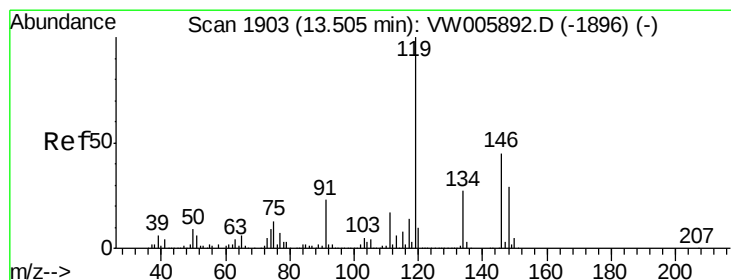
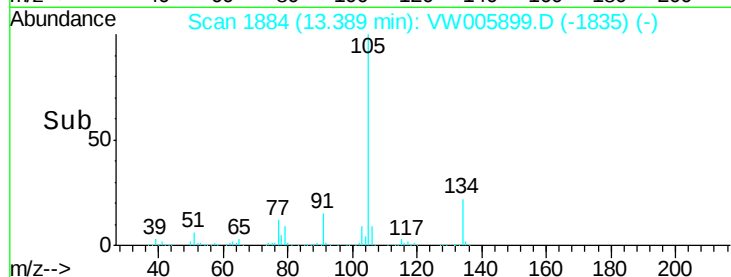
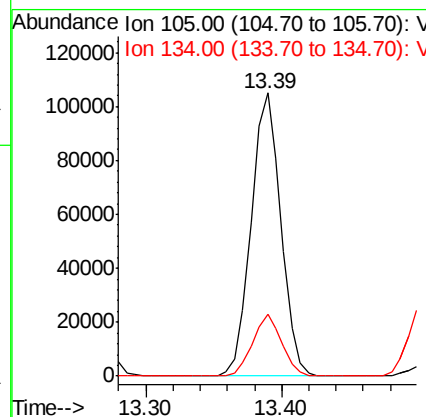
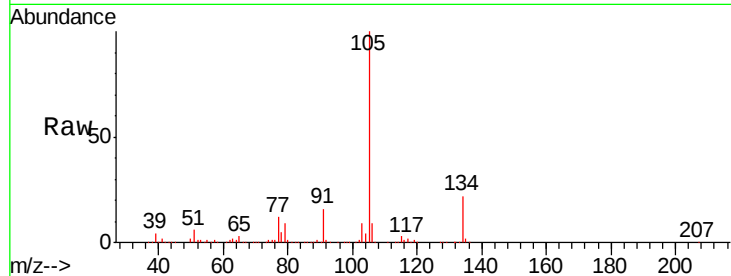
#85
 sec-Butylbenzene
 Concen: 9.55 ug/l
 RT: 13.39 min Scan# 1884
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
105	100		
134	21.3	10.4	31.4

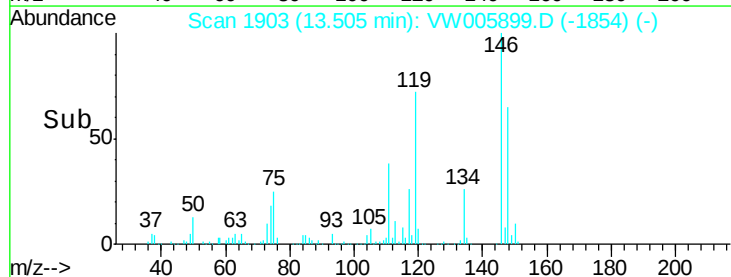
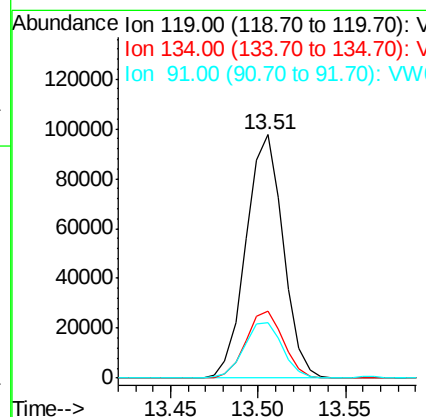
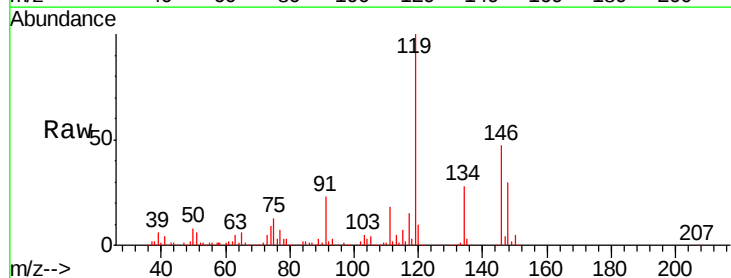
Manual Integrations
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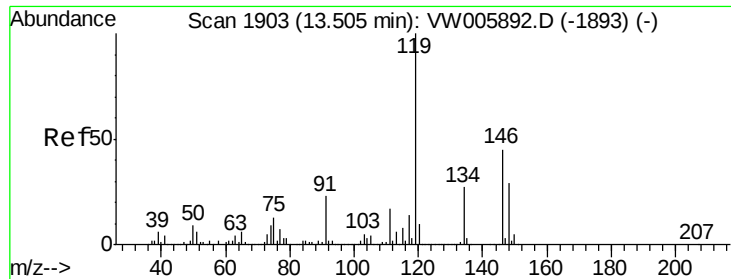
apatel
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#86
 p-Isopropyltoluene
 Concen: 9.57 ug/l
 RT: 13.51 min Scan# 1903
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.7	13.5	40.5
91	23.3	11.9	35.5





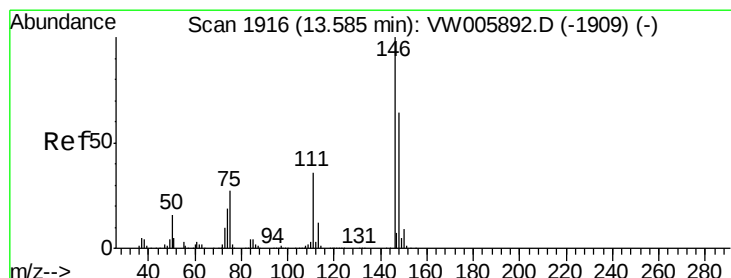
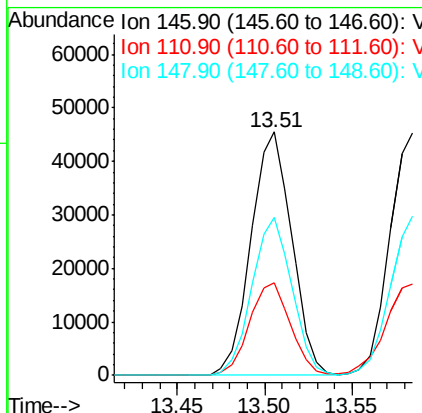
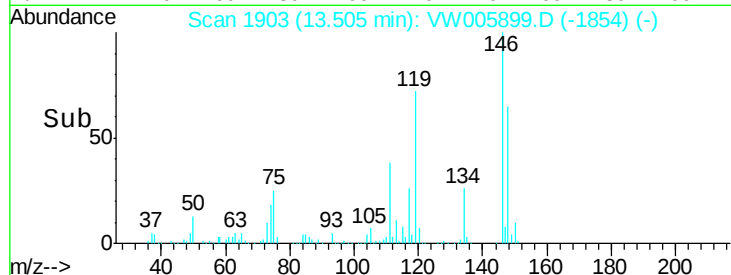
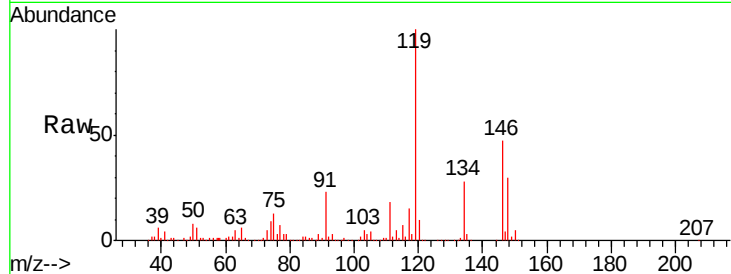
#87
 1,3-Dichlorobenzene
 Concen: 9.79 ug/l
 RT: 13.51 min Scan# 1903
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.2	19.5	58.5
148	63.7	32.1	96.5

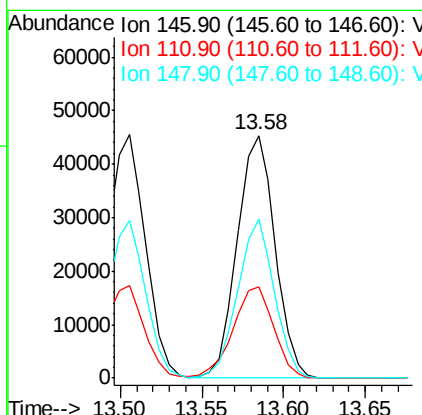
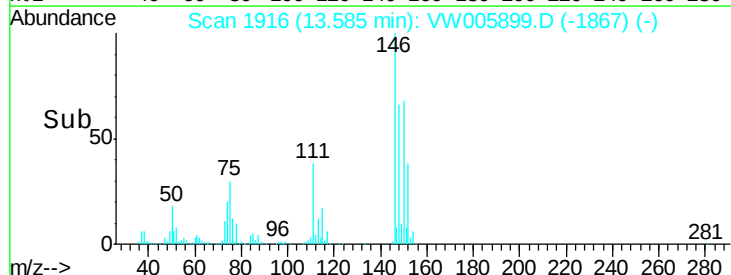
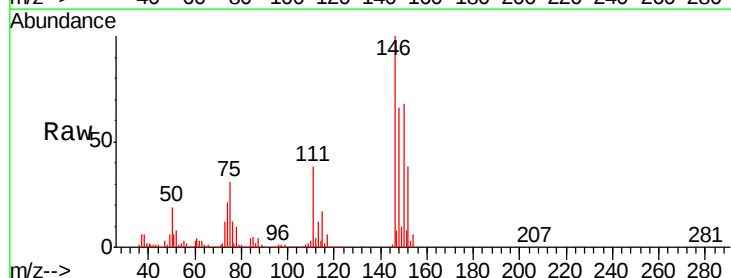
Manual Integrations
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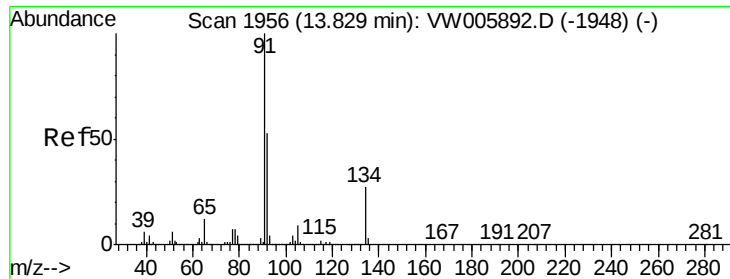
apatel
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#88
 1,4-Dichlorobenzene
 Concen: 9.85 ug/l
 RT: 13.58 min Scan# 1916
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.8	19.0	57.0
148	63.5	32.0	96.2





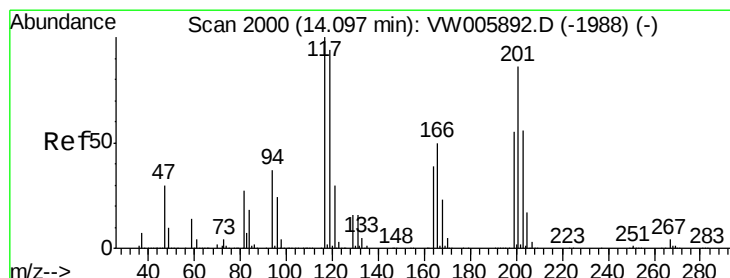
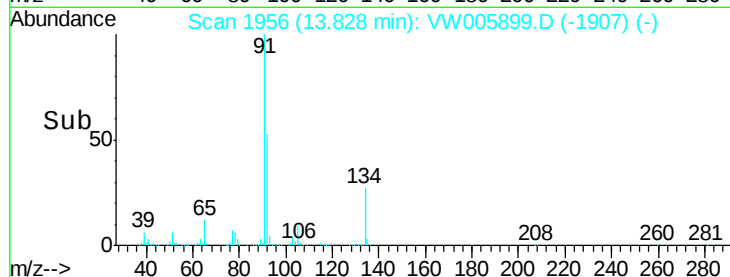
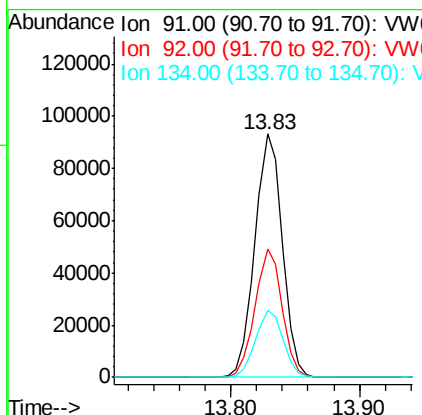
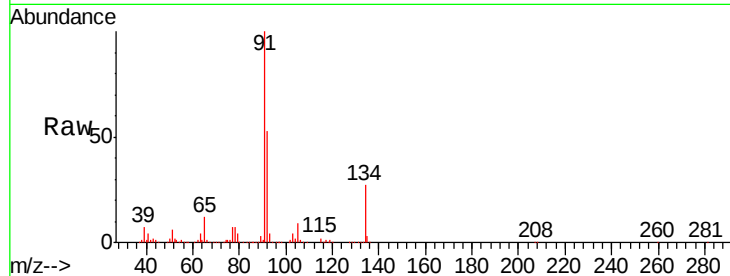
#89
n-Butylbenzene
Concen: 9.55 ug/l
RT: 13.83 min Scan# 1956
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.0	26.6	79.8
134	27.6	13.8	41.4

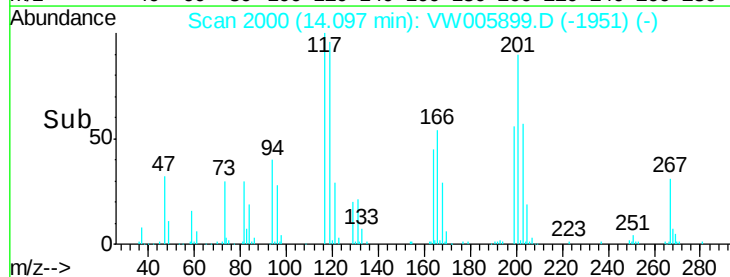
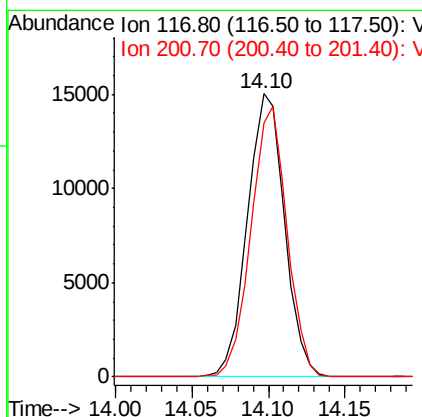
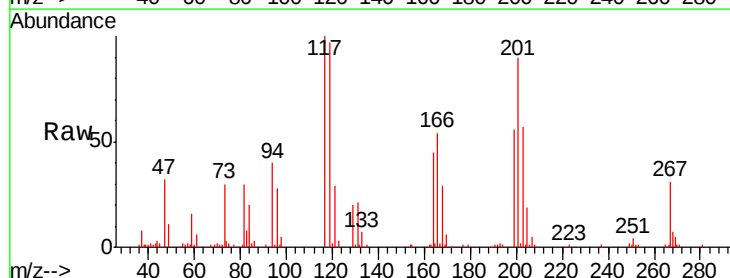
Manual Integrations
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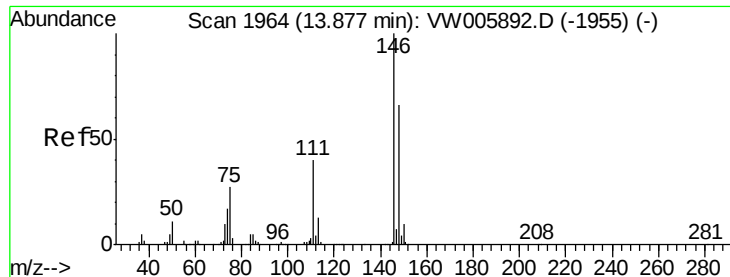
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#90
Hexachloroethane
Concen: 8.94 ug/l
RT: 14.10 min Scan# 2000
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Tgt Ion	Ratio	Lower	Upper
117	100		
201	92.5	44.5	133.5





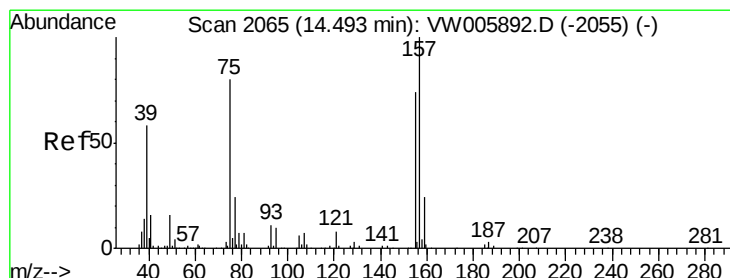
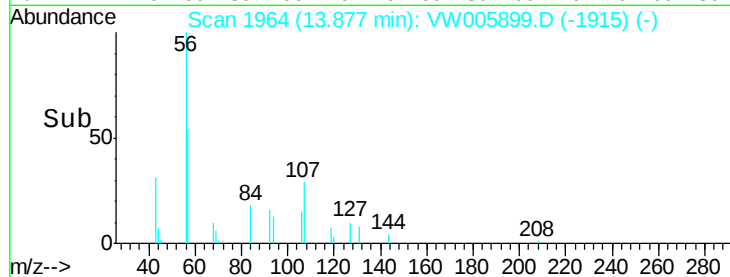
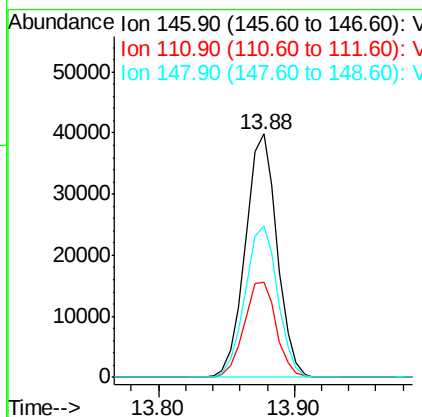
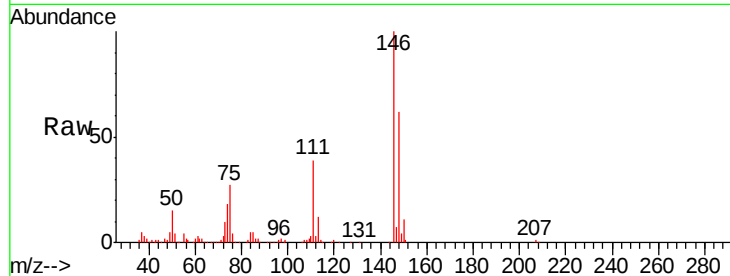
#91
 1,2-Dichlorobenzene
 Concen: 9.75 ug/l
 RT: 13.88 min Scan# 1964
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	64990		
111	39.9	20.3	61.0	
148	64.1	32.5	97.4	

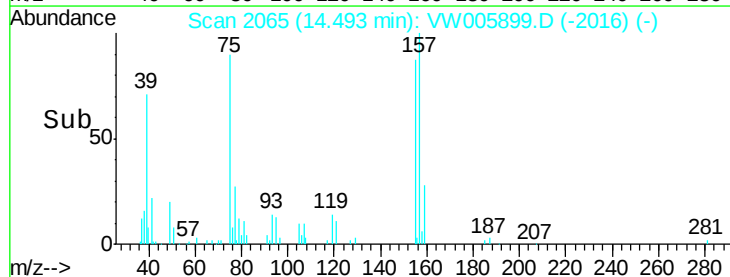
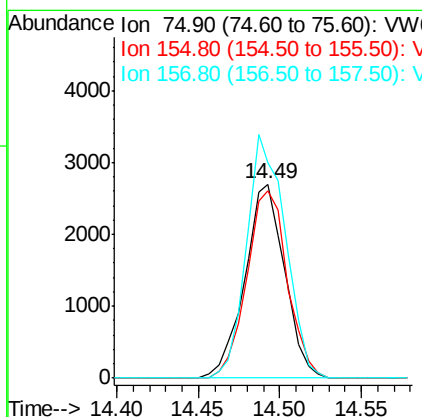
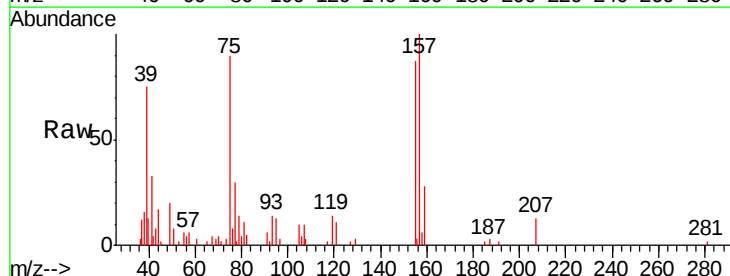
Manual Integrations
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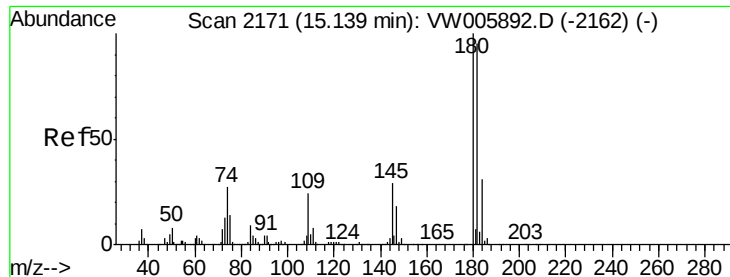
apatel
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 9.39 ug/l
 RT: 14.49 min Scan# 2065
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	4571		
155	98.3	44.8	134.3	
157	122.2	58.9	176.6	





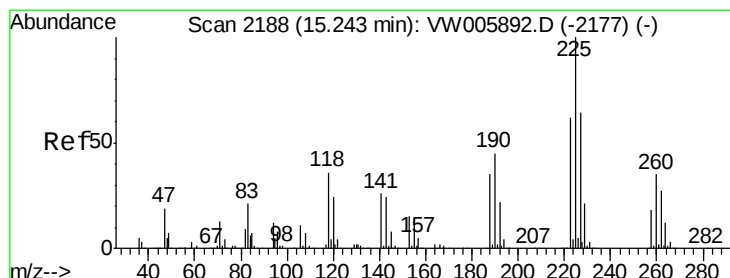
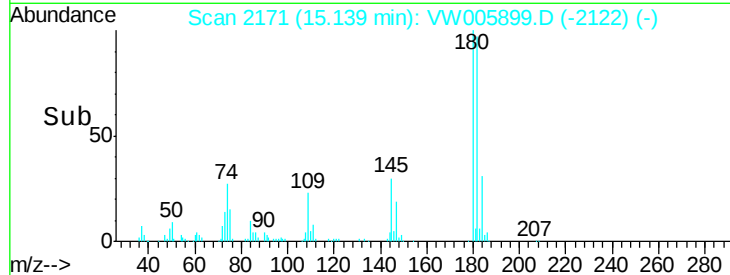
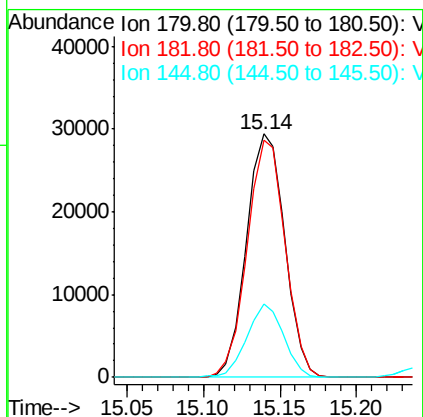
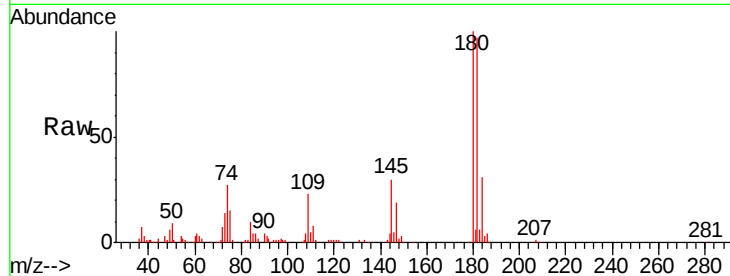
#93
 1,2,4-Trichlorobenzene
 Concen: 9.92 ug/l
 RT: 15.14 min Scan# 2171
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	51249		
182	96.9	47.8	143.3	
145	28.9	14.5	43.6	

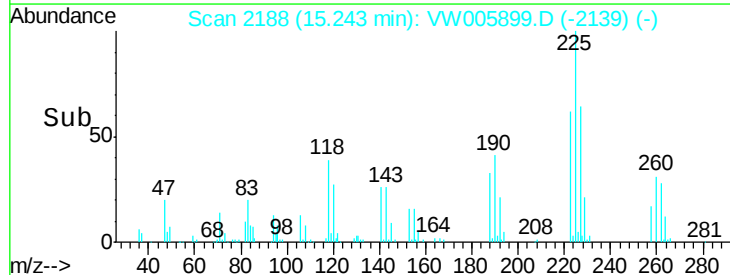
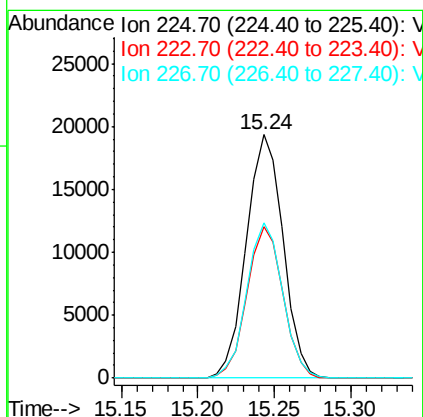
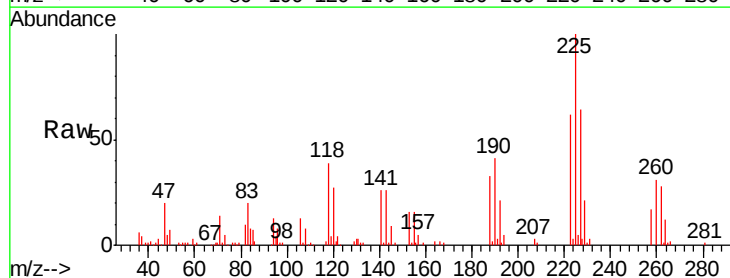
Manual Integrations
 APPROVED

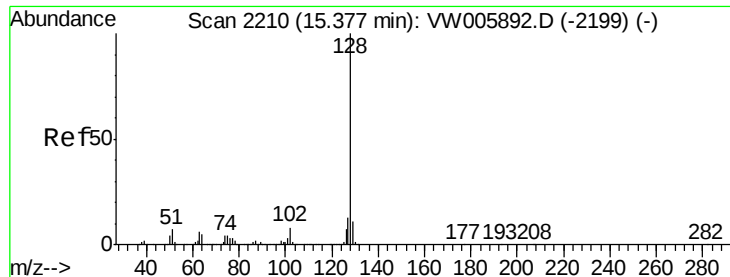
apatel
 10/9/2018 4:26:28 PM



#94
 Hexachlorobutadiene
 Concen: 10.01 ug/l
 RT: 15.24 min Scan# 2188
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	32290		
223	61.0	31.2	93.6	
227	62.4	31.9	95.9	





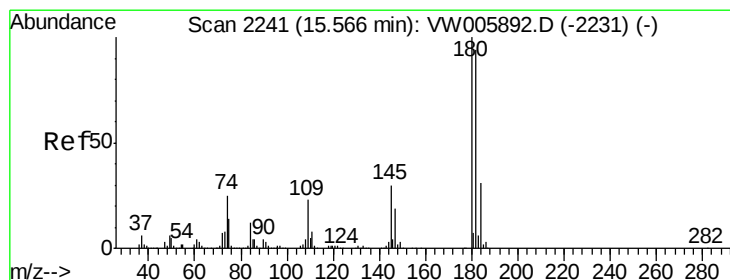
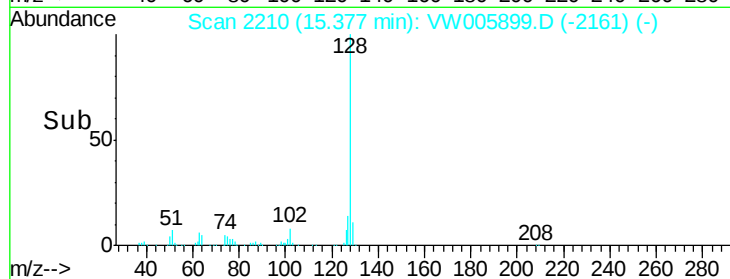
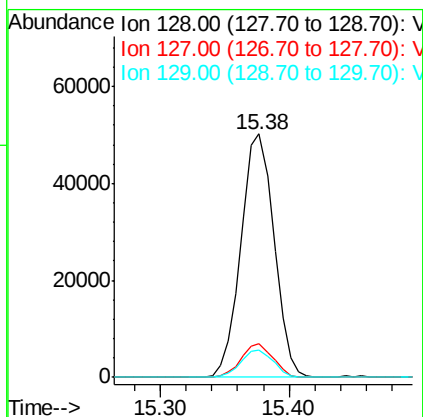
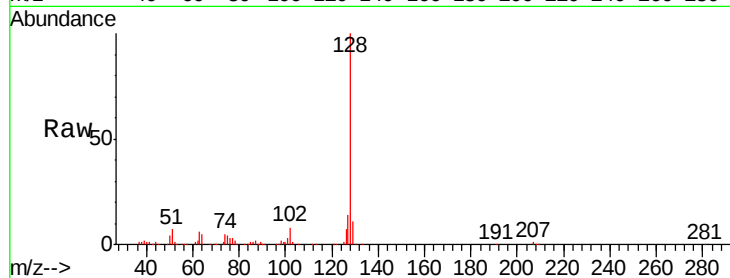
#95
Naphthalene
Concen: 10.07 ug/l
RT: 15.38 min Scan# 2210
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.5	15.7
129	11.0	8.9	13.3

Manual Integrations
APPROVED

apatel
10/9/2018 4:26:28 PM



#96
1,2,3-Trichlorobenzene
Concen: 9.88 ug/l
RT: 15.57 min Scan# 2241
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.0	47.6	142.8
145	30.6	15.3	45.9

