

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW071919\
 Data File : VW011371.D
 Acq On : 19 Jul 2019 11:36
 Operator : SY/VA
 Sample : K3831-06
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 GAMR3

Manual Integrations
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MMDadoda
 7/24/2019 12:48:59 AM

Quant Time: Jul 20 01:05:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM070219S.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jul 20 00:46:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	333904	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	294180	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	146214	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	135831	26.64	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	106.56%
7) Chloroethane-d5	2.88	69	96416	26.95	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	107.80%
10) 1,1-Dichloroethene-d2	4.01	63	288187	26.69	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	106.76%
20) 2-Butanone-d5	7.07	46	96152	47.87	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	95.74%
24) Chloroform-d	7.64	84	237209	25.92	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	103.68%
26) 1,2-Dichloroethane-d4	8.30	65	144754	25.68	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	102.72%
29) Benzene-d6	8.27	84	513750	28.35	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	113.40%
33) 1,2-Dichloropropane-d6	9.27	67	164174	27.82	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	111.28%
37) Toluene-d8	10.32	98	454503	28.14	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	112.56%
38) trans-1,3-Dichloropropene-	10.57	79	67628	26.95	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	107.80%
39) 2-Hexanone-d5	10.92	63	66144	48.87	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	97.74%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	120906	24.77	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	99.08%
61) 1,2-Dichlorobenzene-d4	13.85	152	147907	26.35	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	105.40%

Target Compounds

					Ovalue
3) Chloromethane	2.21	50	96876	21.728	ug/L 99
6) Bromomethane	2.78	94	26202	9.624	ug/L 98
9) Trichlorofluoromethane	3.25	101	35792	17.964	ug/L 100
12) 1,1-Dichloroethene	4.03	96	104348	23.780	ug/L 96
13) Acetone	4.12	43	156318	79.684	ug/L 99
15) Methyl Acetate	4.67	43	119990m	37.590	ug/L
16) Methylene chloride	4.91	84	60268	12.283	ug/L 97
17) Methyl tert-butyl Ether	5.42	73	217467	31.957	ug/L 99
18) trans-1,2-Dichloroethene	5.42	96	50975	11.496	ug/L 93
22) cis-1,2-Dichloroethene	7.17	96	130291	27.146	ug/L 99
23) Bromochloromethane	7.51	128	31691	15.736	ug/L 99
27) 1,2-Dichloroethane	8.40	62	66703	10.234	ug/L 99
30) Cyclohexane	7.95	56	102738	11.486	ug/L 100
31) 1,1,1-Trichloroethane	7.87	97	70127	11.486	ug/L 99
32) Carbon tetrachloride	8.06	117	81500	14.233	ug/L 98
35) Trichloroethene	9.09	95	209206	45.091	ug/L 100
36) Methylcyclohexane	9.33	83	242899	29.092	ug/L 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

40) 1,2-Dichloropropane	9.37	63	71431	14.178	ug/L	100
41) Bromodichloromethane	9.64	83	125933	21.681	ug/L	96
42) cis-1,3-Dichloropropene	10.07	75	136885	18.414	ug/L	97
44) Toluene	10.38	91	437306	22.979	ug/L	99
45) trans-1,3-Dichloropropene	10.60	75	54335	8.834	ug/L	99
47) Tetrachloroethene	10.86	164	160427	45.751	ug/L	98
49) 2-Hexanone	10.97	43	159226	46.838	ug/L	99
50) Dibromochloromethane	11.13	129	77365	20.824	ug/L	100
53) Ethylbenzene	11.73	91	362566	16.796	ug/L	100
54) m,p-Xylene	11.85	106	87644	11.183	ug/L	97
55) o-xylene	12.16	106	101893	13.667	ug/L	96
57) Isopropylbenzene	12.46	105	285872	14.047	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	197023	21.902	ug/L	99
65) 1,2-Dichlorobenzene	13.87	146	92081	10.997	ug/L	100
66) 1,2-Dibromo-3-chloropropan	14.48	75	14624	17.789	ug/L	94

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

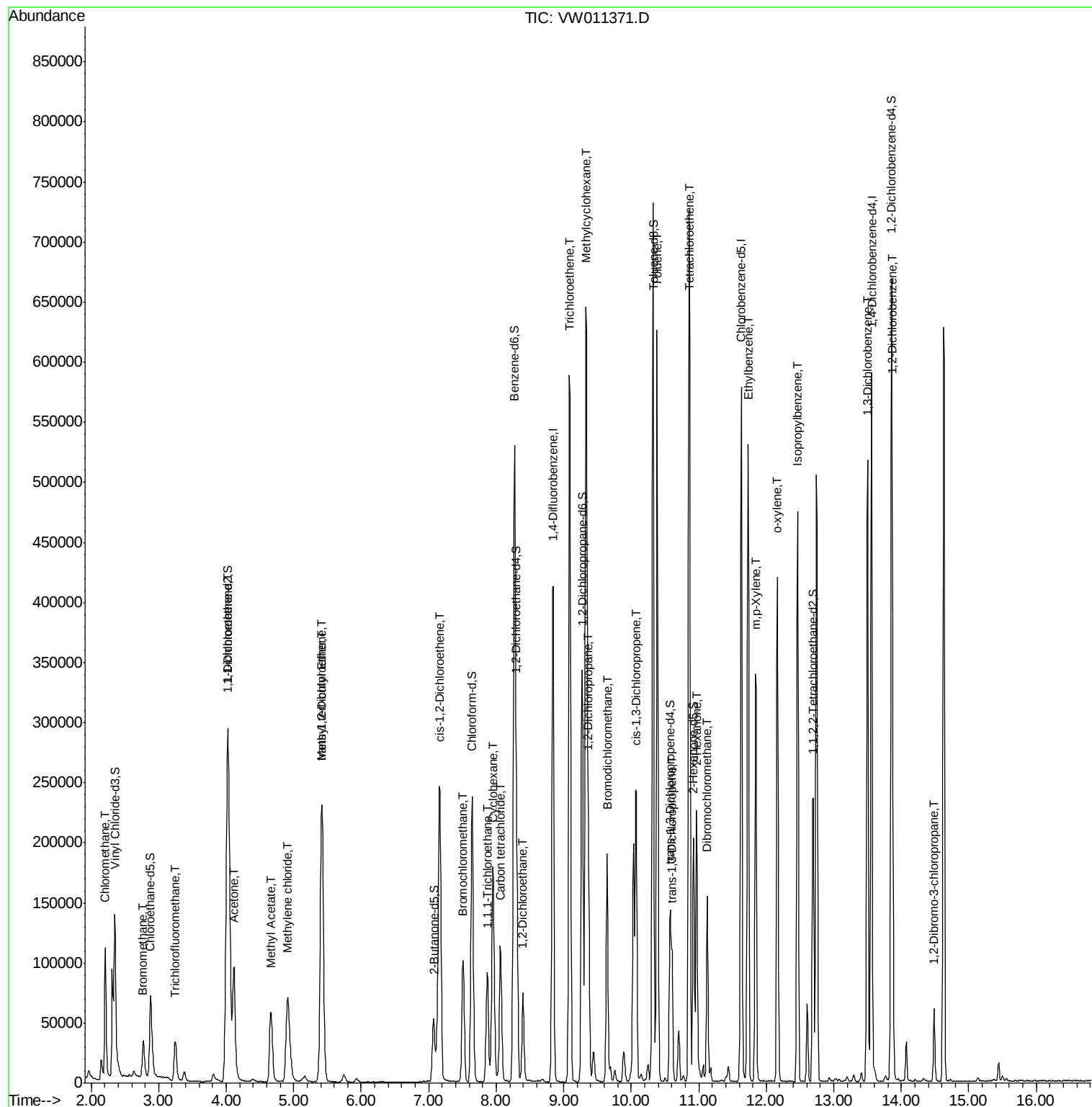
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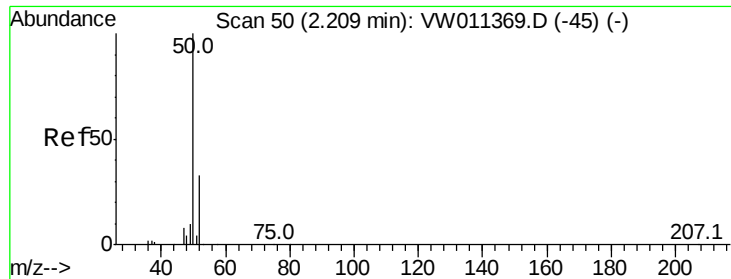
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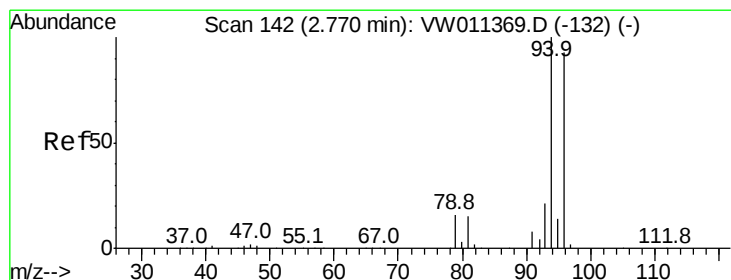
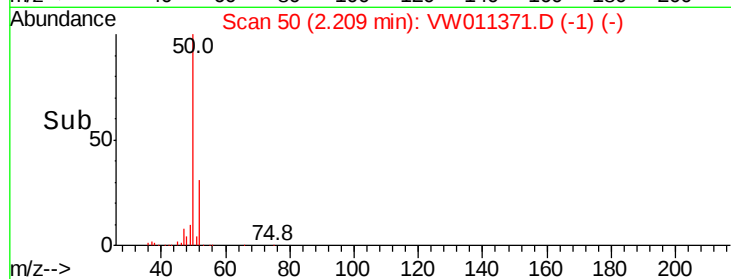
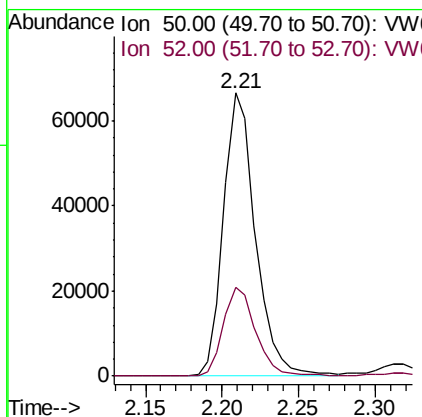
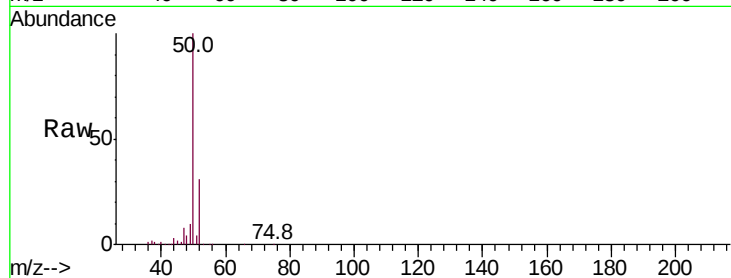
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Chloromethane
Concen: 21.728 ug/L
RT: 2.21 min Scan# 50
Delta R.T. 0.00 min
Lab File: VW011371.D
Acq: 19 Jul 2019 11:36

Instrument :
MSVOA_W
ClientSampleId :
GAMR3

Tot Ion: 50 Resp: 96876
Ion Ratio Lower Upper
50 100
52 31.3 22.3 41.5

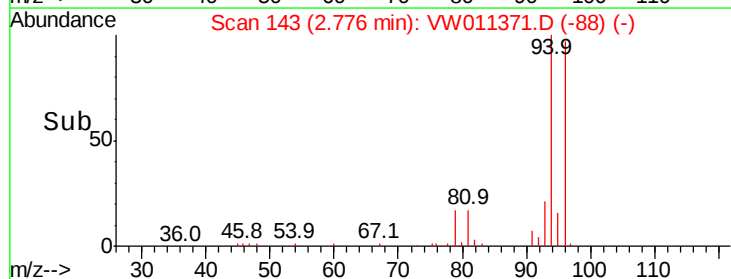
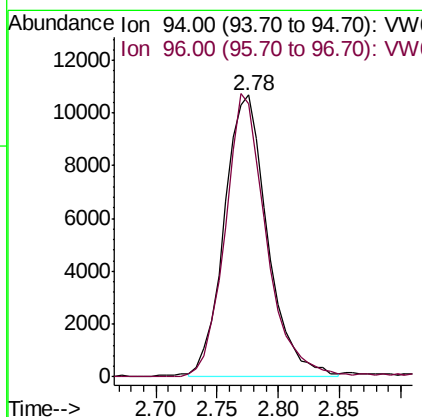
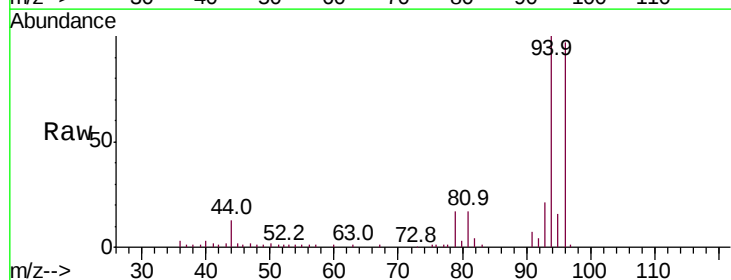
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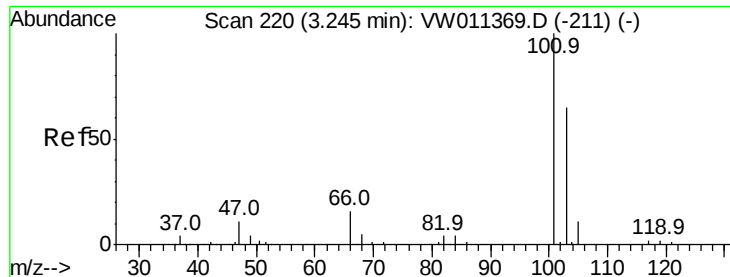
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#6
Bromomethane
Concen: 9.624 ug/L
RT: 2.78 min Scan# 143
Delta R.T. 0.01 min
Lab File: VW011371.D
Acq: 19 Jul 2019 11:36

Tgt Ion: 94 Resp: 26202
Ion Ratio Lower Upper
94 100
96 95.4 9.3 177.3





#9

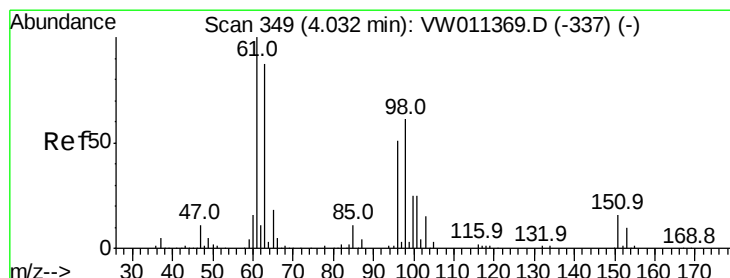
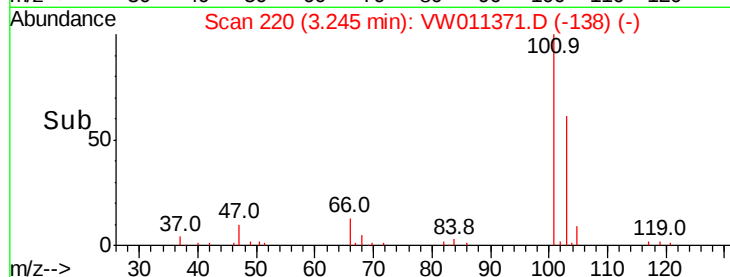
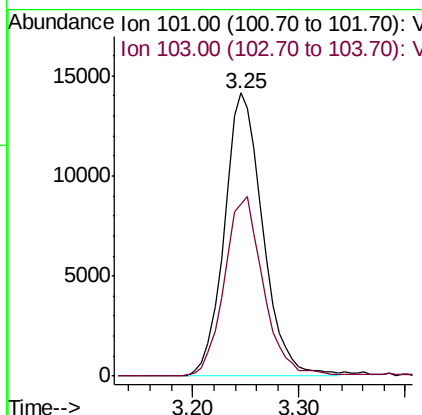
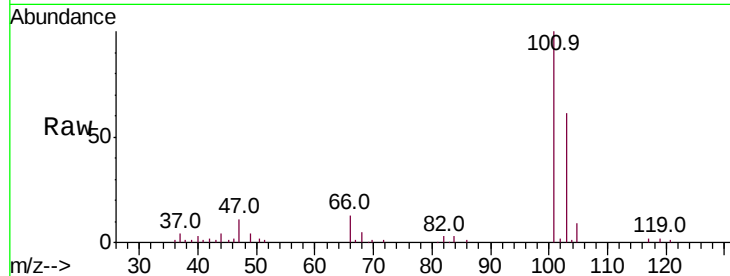
Trichlorofluoromethane
 Concen: 17.964 ug/L
 RT: 3.25 min Scan# 220
 Delta R.T. 0.00 min
 Lab File: VW011371.D
 Acq: 19 Jul 2019 11:36

Instrument :
 MSVOA_W
 ClientSampleId :
 GAMR3

Tot Ion:101 Resp: 35792
 Ion Ratio Lower Upper
 101 100
 103 63.5 44.6 82.8

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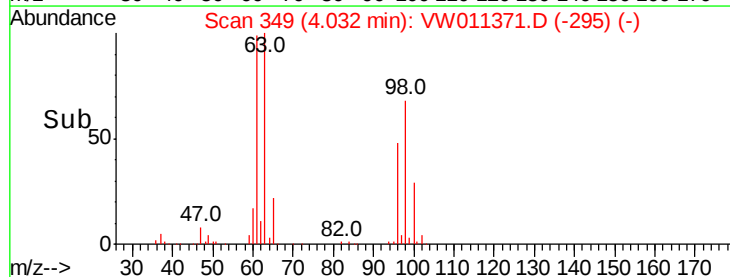
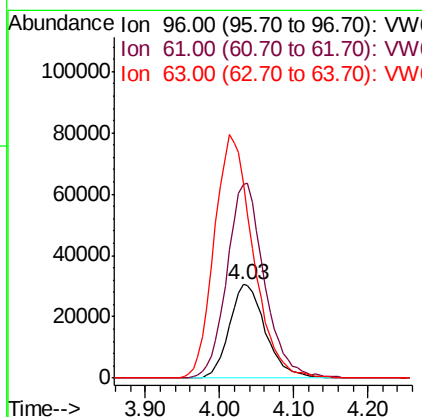
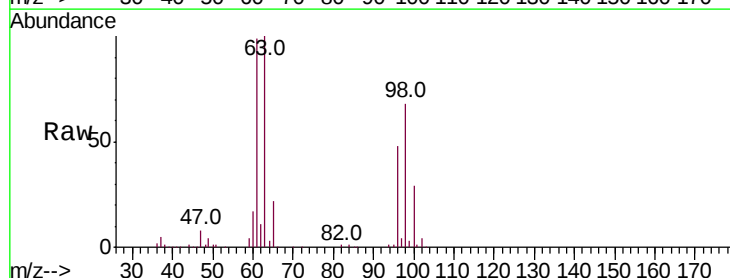
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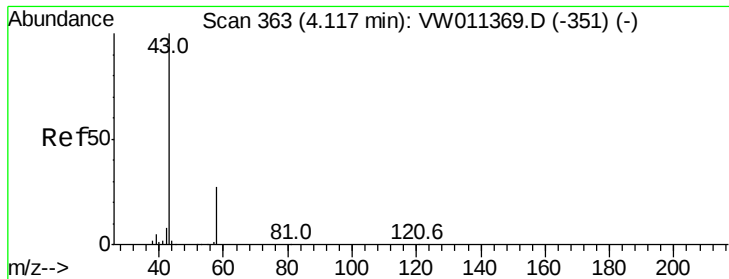


#12

1,1-Dichloroethene
 Concen: 23.780 ug/L
 RT: 4.03 min Scan# 349
 Delta R.T. 0.00 min
 Lab File: VW011371.D
 Acq: 19 Jul 2019 11:36

Tgt Ion: 96 Resp: 104348
 Ion Ratio Lower Upper
 96 100
 61 206.4 142.2 264.0
 63 208.0 138.9 257.9





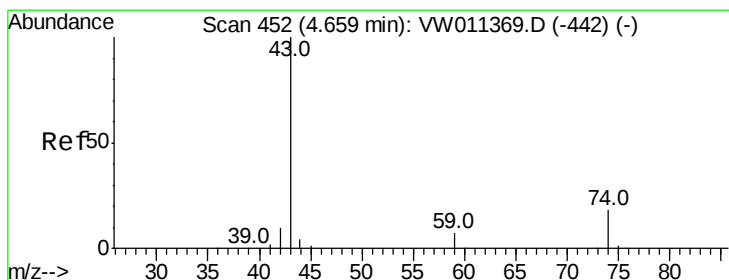
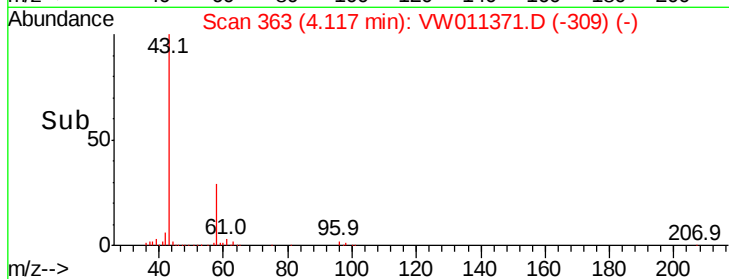
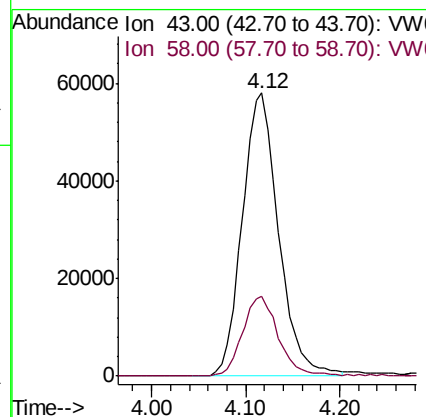
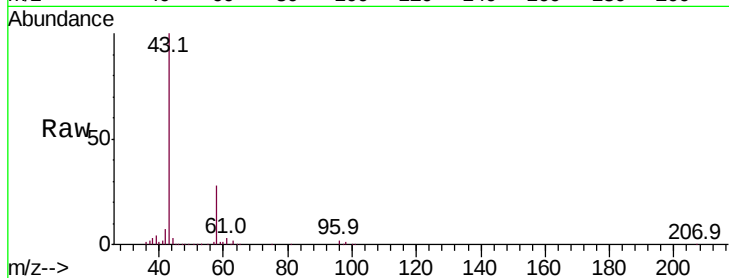
#13
Acetone
Concen: 79.684 ug/L
RT: 4.12 min Scan# 363
Delta R.T. 0.00 min
Lab File: VW011371.D
Acq: 19 Jul 2019 11:36

Instrument :
MSVOA_W
ClientSampleId :
GAMR3

Tot Ion	43	58	Ratio	100	27.9	Resp	Lower	Upper
156318							0.0	55.0

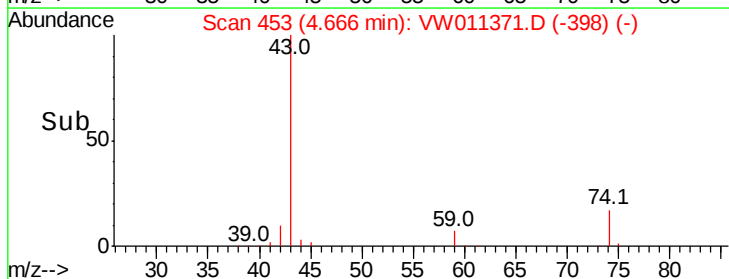
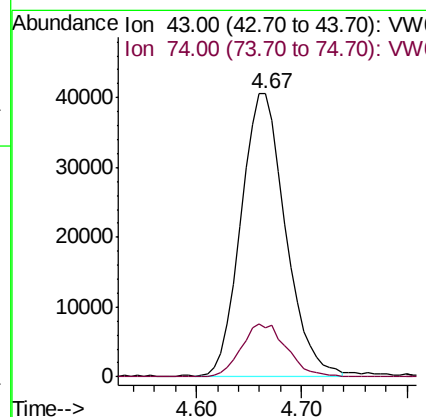
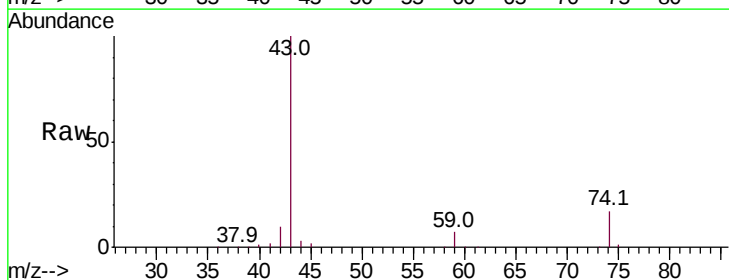
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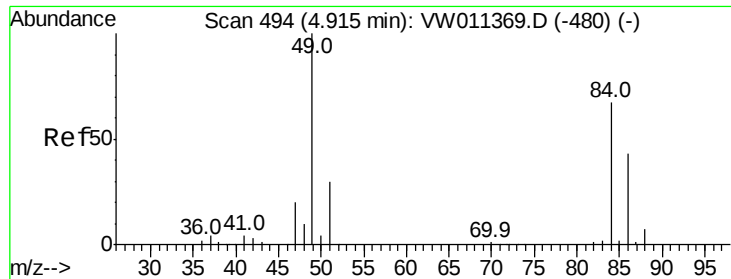
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#15
Methyl Acetate
Concen: 37.590 ug/L m
RT: 4.67 min Scan# 453
Delta R.T. 0.01 min
Lab File: VW011371.D
Acq: 19 Jul 2019 11:36

Tgt Ion	43	74	Ratio	100	0.0	Resp	Lower	Upper
119990							15.1	22.7#





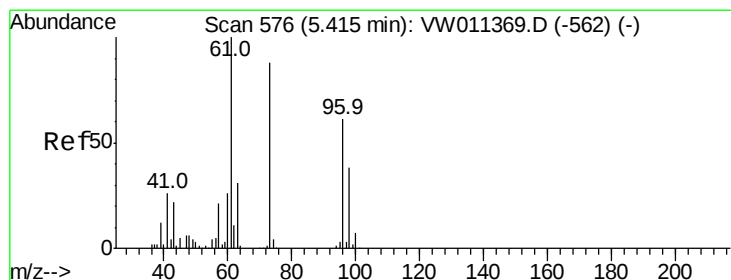
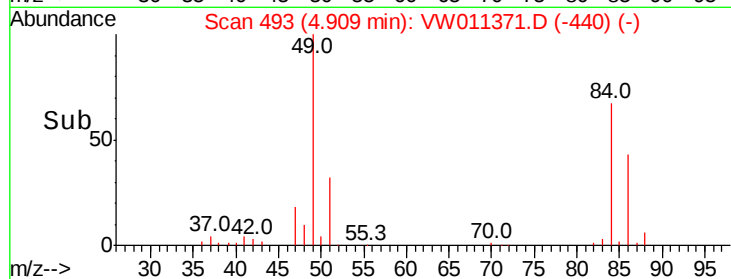
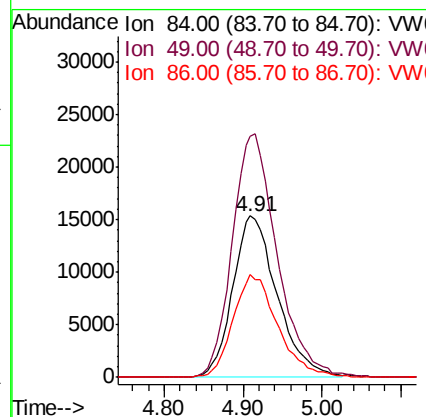
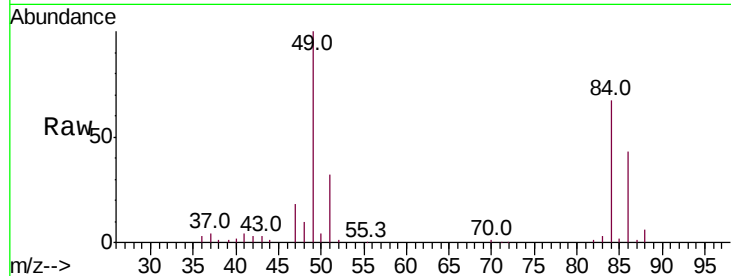
#16
Methvlene chloride
Concen: 12.283 ug/L
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW011371.D
Acq: 19 Jul 2019 11:36

Instrument :
MSVOA_W
ClientSampleId :
GAMR3

Tot Ion	84	Resp	60268
Ion Ratio	100	Lower	Upper
84	100		
49	149.3	102.5	190.3
86	63.9	46.4	86.2

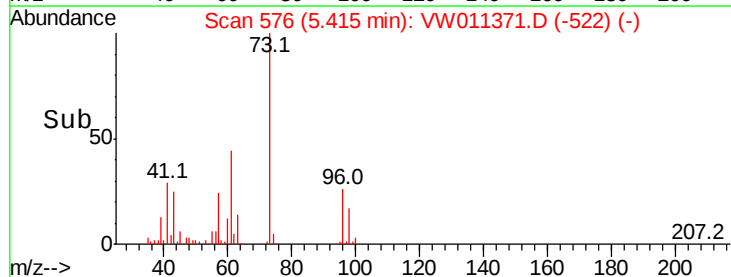
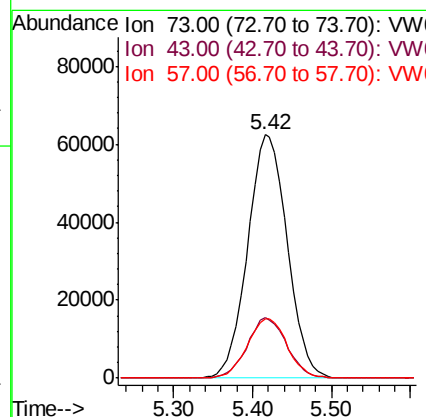
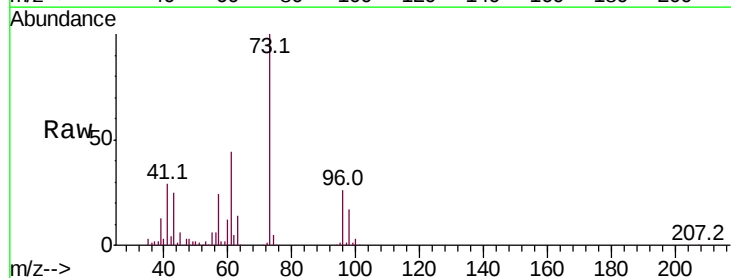
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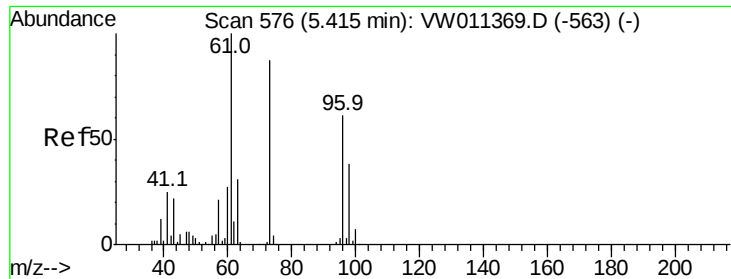
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#17
Methyl tert-butyl Ether
Concen: 31.957 ug/L
RT: 5.42 min Scan# 576
Delta R.T. 0.00 min
Lab File: VW011371.D
Acq: 19 Jul 2019 11:36

Tgt Ion	73	Resp	217467
Ion Ratio	100	Lower	Upper
73	100		
43	24.5	20.2	30.2
57	24.6	19.6	29.4





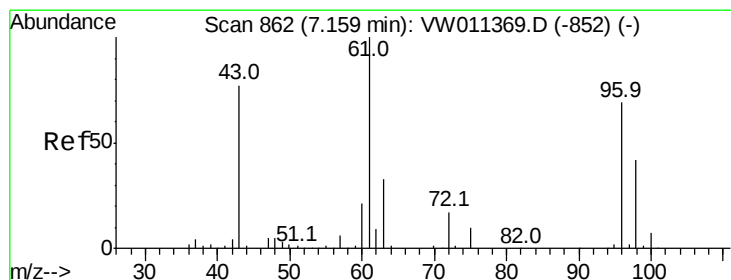
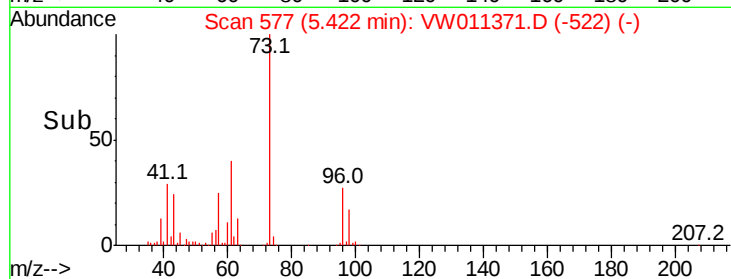
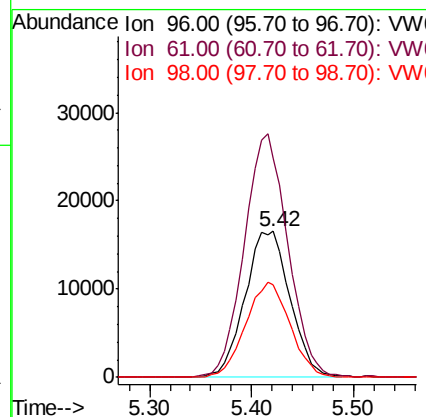
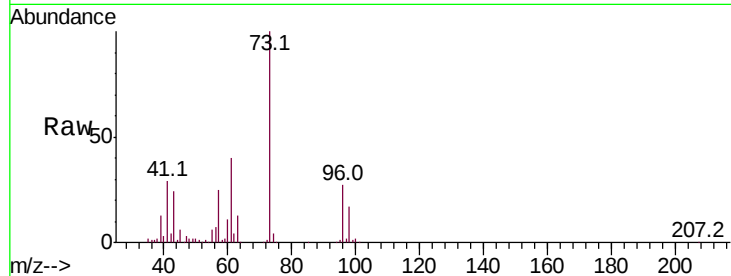
#18
trans-1,2-Dichloroethene
Concen: 11.496 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.01 min
Lab File: VW011371.D
Acq: 19 Jul 2019 11:36

Instrument :
MSVOA_W
ClientSampled :
GAMR3

Tot Ion	Ratio	Lower	Upper
96	100		
61	150.1	113.7	211.1
98	63.5	43.3	80.3

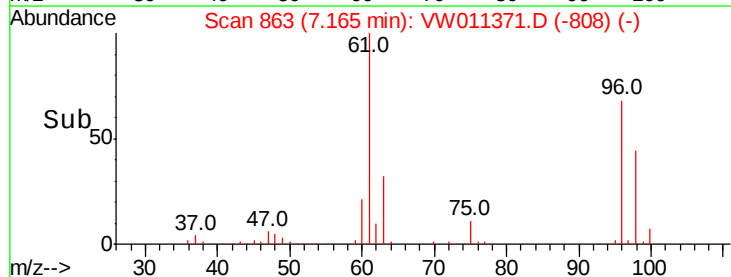
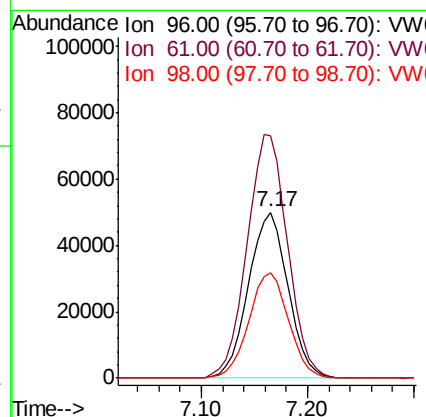
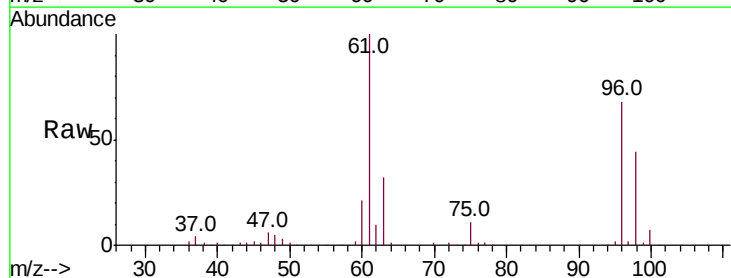
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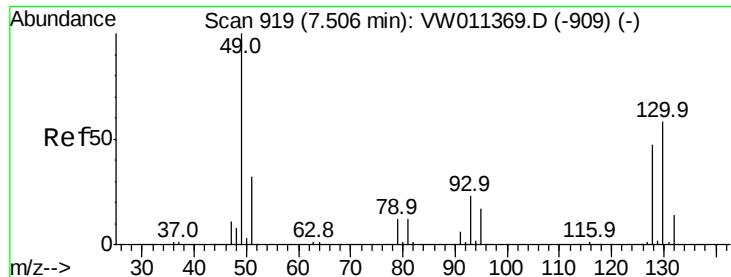
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#22
cis-1,2-Dichloroethene
Concen: 27.146 ug/L
RT: 7.17 min Scan# 863
Delta R.T. 0.01 min
Lab File: VW011371.D
Acq: 19 Jul 2019 11:36

Tgt Ion	Ratio	Lower	Upper
96	100		
61	146.0	103.2	191.6
98	63.6	44.8	83.2





#23

Bromochloromethane

Concen: 15.736 ug/L

RT: 7.51 min Scan# 919

Delta R.T. 0.00 min

Lab File: VW011371.D

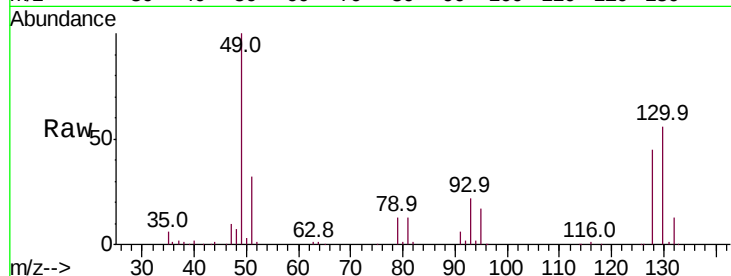
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ClientSampled :
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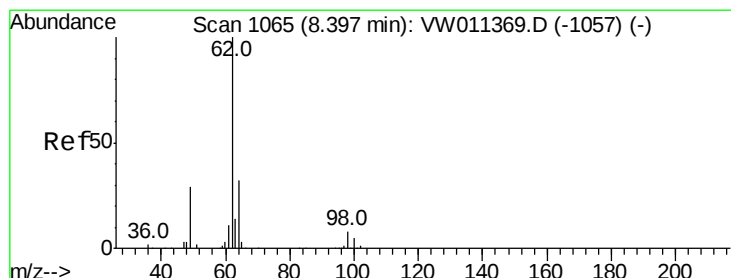
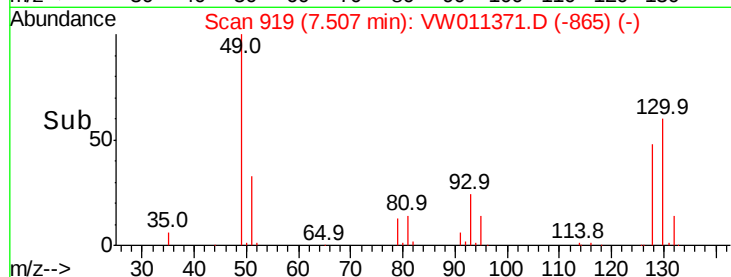
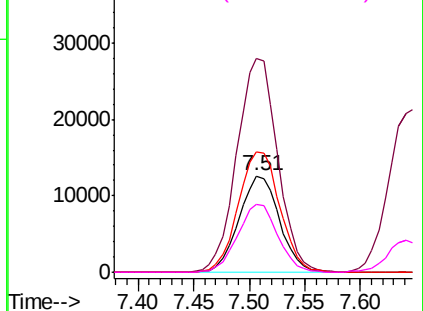
Tot Ion:	128	Resp:	31691
Ion	Ratio	Lower	Upper
128	100		
49	221.5	153.8	285.6
130	124.7	86.4	160.4
51	70.9	56.2	84.4

Manual Integrations
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Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VW
Ion 130.00 (129.70 to 130.70): V
Ion 51.00 (50.70 to 51.70): VW



#27

1,2-Dichloroethane

Concen: 10.234 ug/L

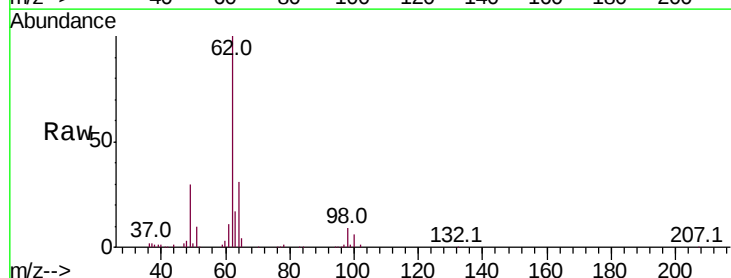
RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

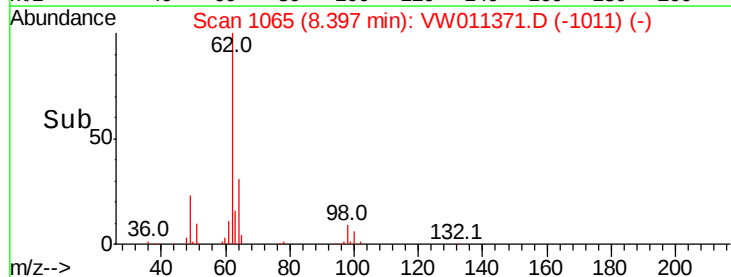
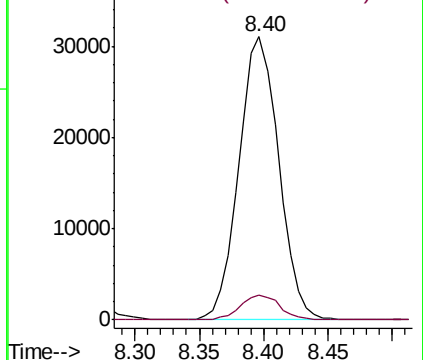
Lab File: VW011371.D

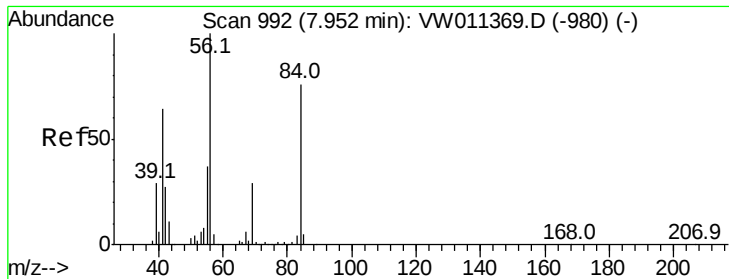
Acq: 19 Jul 2019 11:36

Tgt Ion:	62	Resp:	66703
Ion	Ratio	Lower	Upper
62	100		
98	8.7	6.6	10.0



Abundance Ion 62.00 (61.70 to 62.70): VW
Ion 98.00 (97.70 to 98.70): VW





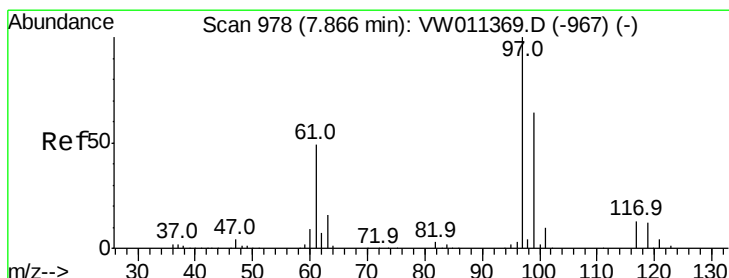
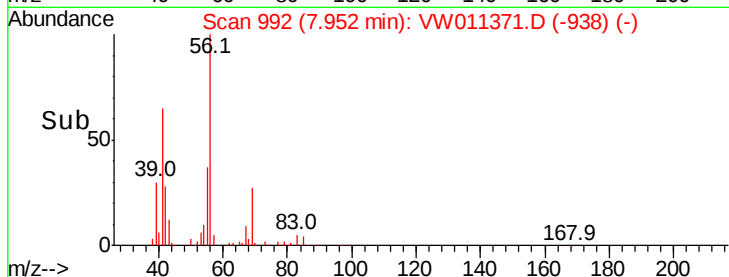
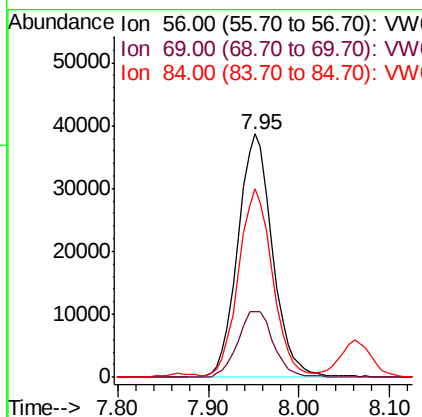
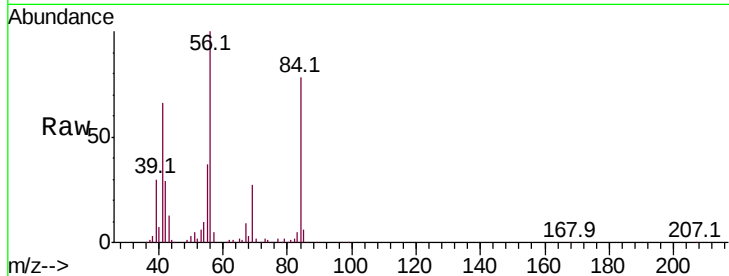
#30
Cyclohexane
Concen: 11.486 ug/L
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW011371.D
Acq: 19 Jul 2019 11:36

Instrument :
MSVOA_W
ClientSampled :
GAMR3

Tot Ion	Ratio	Lower	Upper
56	100		
69	27.8	22.5	33.7
84	76.3	60.9	91.3

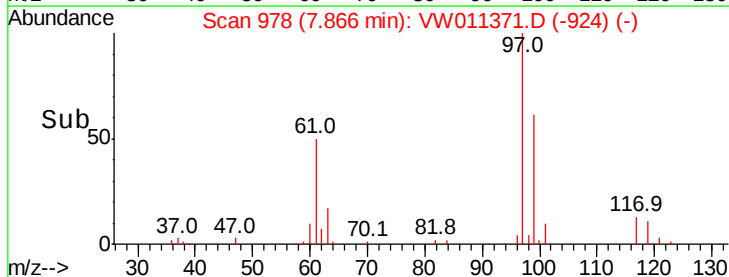
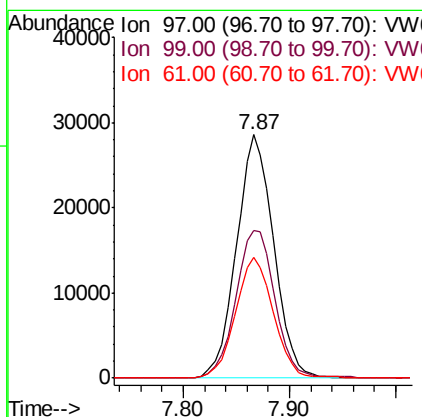
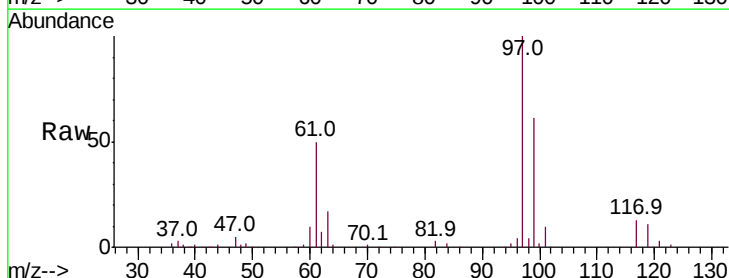
Manual Integrations
APPROVED

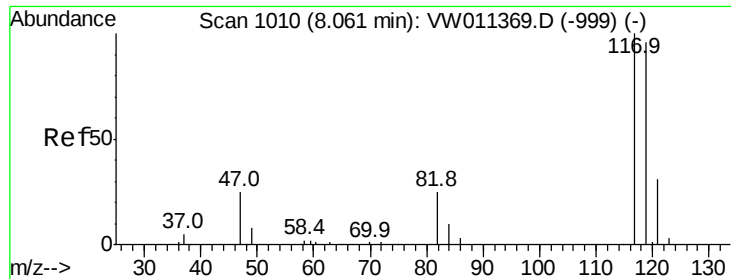
MMDadoda
7/24/2019 12:48:59 AM



#31
1,1,1-Trichloroethane
Concen: 11.486 ug/L
RT: 7.87 min Scan# 978
Delta R.T. 0.00 min
Lab File: VW011371.D
Acq: 19 Jul 2019 11:36

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.5	50.6	75.8
61	50.3	40.9	61.3





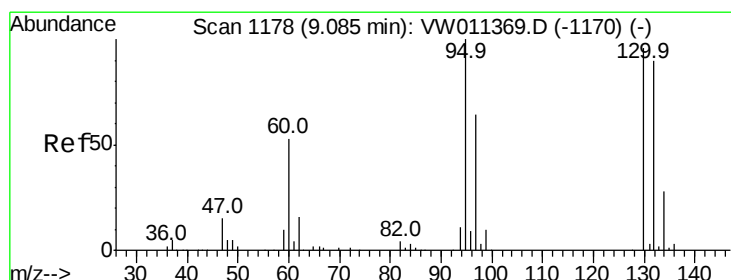
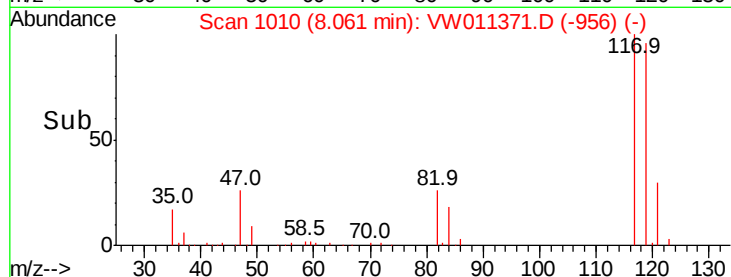
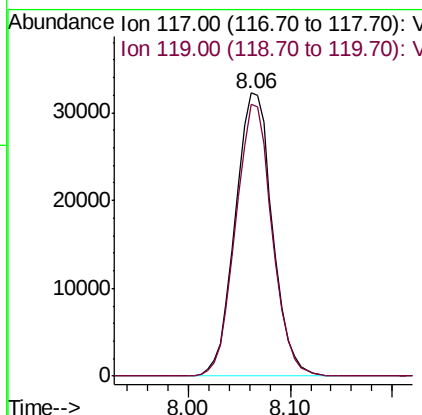
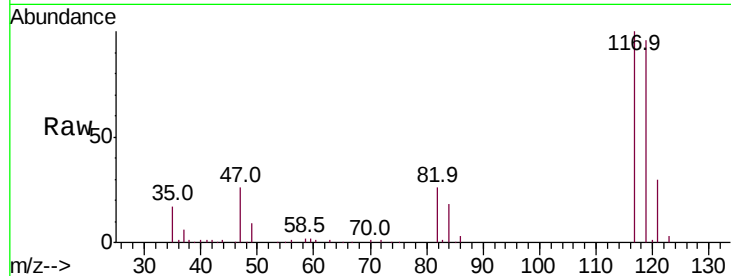
#32
Carbon tetrachloride
Concen: 14.233 ug/L
RT: 8.06 min Scan# 1010
Delta R.T. 0.00 min
Lab File: VW011371.D
Acq: 19 Jul 2019 11:36

Instrument :
MSVOA_W
ClientSampleId :
GAMR3

Tot Ion:117 Resp: 81500
Ion Ratio Lower Upper
117 100
119 94.3 77.4 116.0

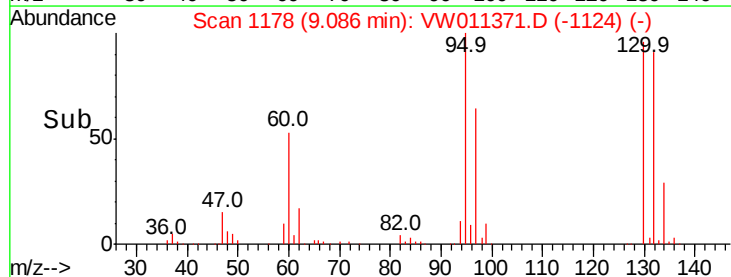
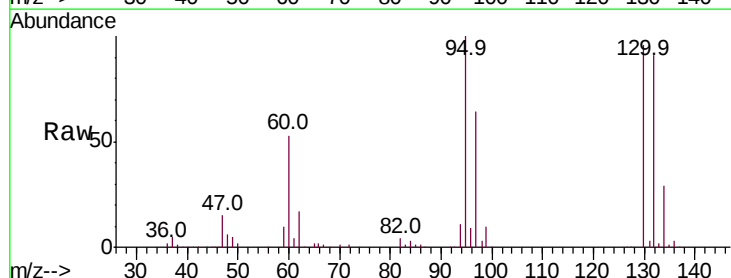
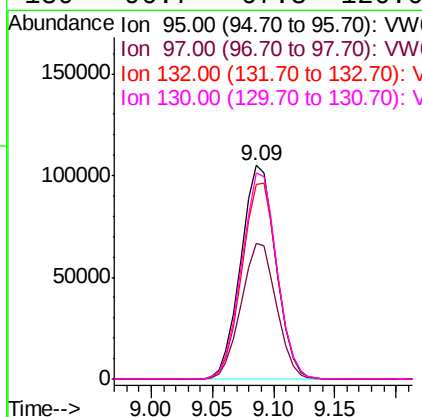
Manual Integrations
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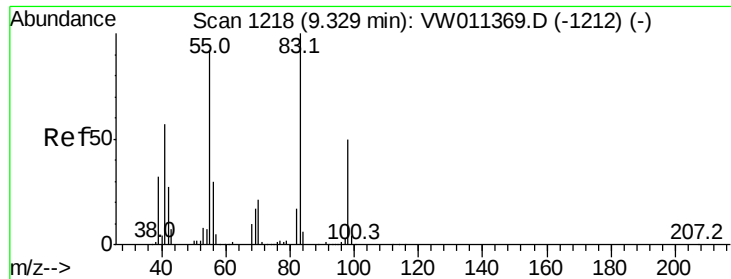
MMDadoda
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#35
Trichloroethene
Concen: 45.091 ug/L
RT: 9.09 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VW011371.D
Acq: 19 Jul 2019 11:36

Tgt Ion: 95 Resp: 209206
Ion Ratio Lower Upper
95 100
97 63.7 45.4 84.2
132 92.8 65.0 120.8
130 96.7 67.8 126.0





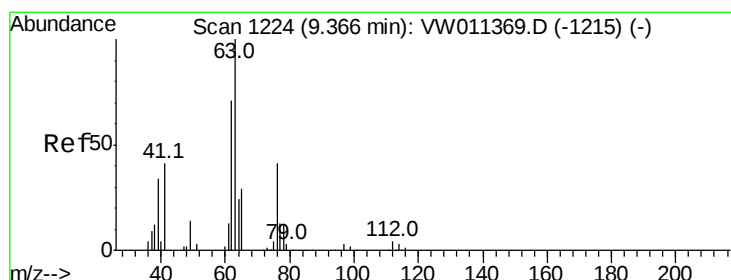
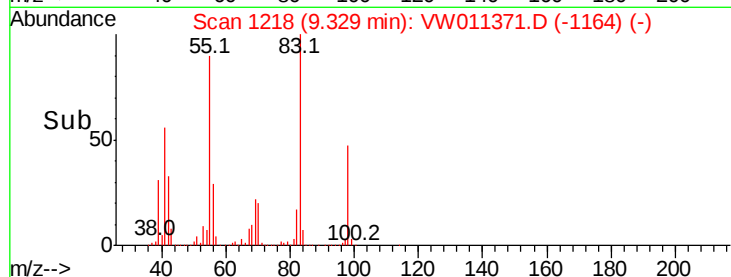
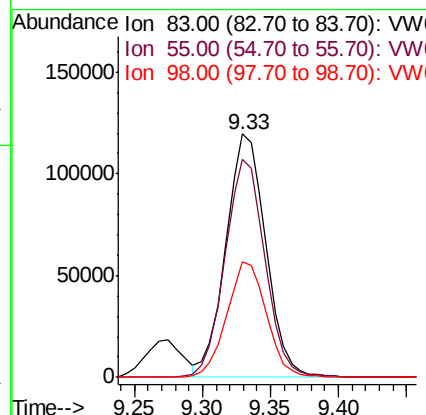
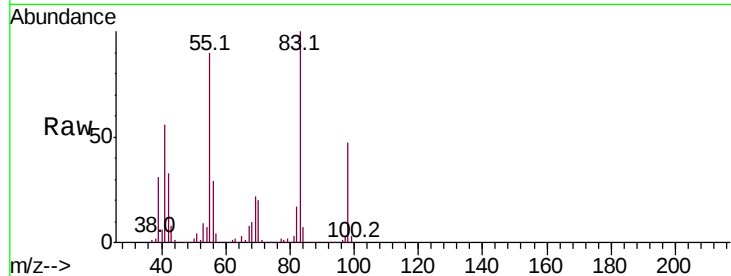
#36
Methvlcvclohexane
Concen: 29.092 ug/L
RT: 9.33 min Scan# 1218
Delta R.T. 0.00 min
Lab File: VW011371.D
Acq: 19 Jul 2019 11:36

Instrument :
MSVOA_W
ClientSampleId :
GAMR3

Tot Ion	Ratio	Resp	Lower	Upper
83	100	242899		
55	90.5	72.2	108.4	
98	47.5	38.2	57.4	

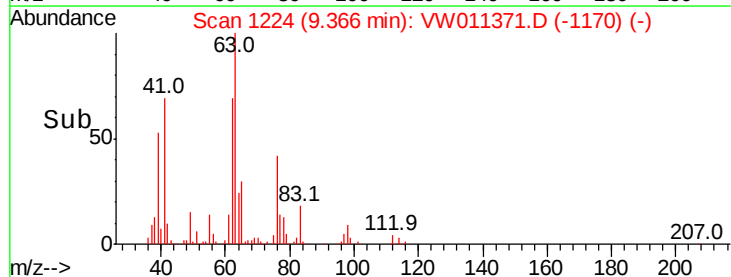
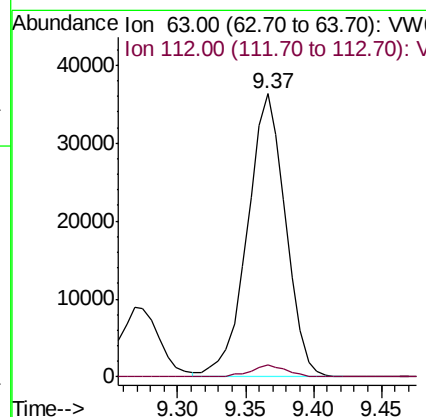
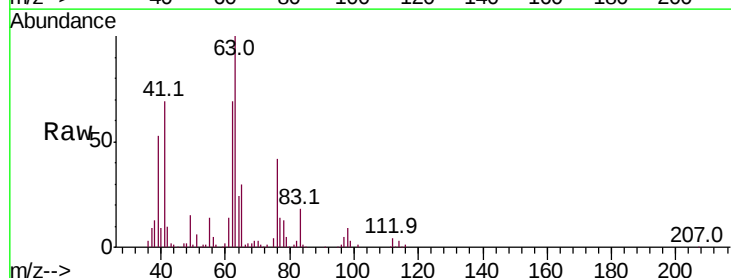
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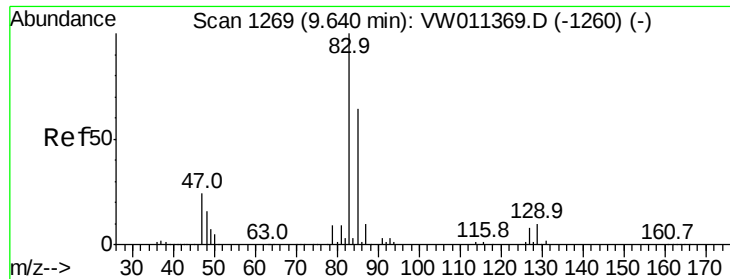
MMDadoda
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#40
1,2-Dichloropropane
Concen: 14.178 ug/L
RT: 9.37 min Scan# 1224
Delta R.T. 0.00 min
Lab File: VW011371.D
Acq: 19 Jul 2019 11:36

Tgt Ion	Ratio	Resp	Lower	Upper
63	100	71431		
112	3.9	3.0	4.6	





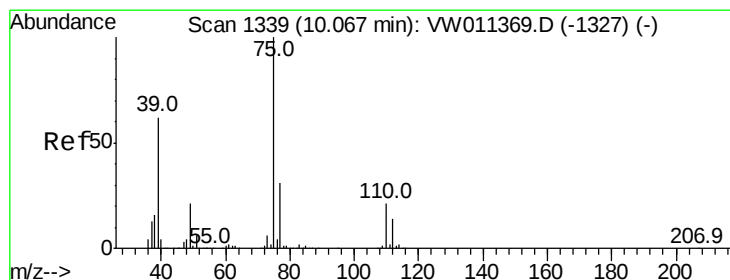
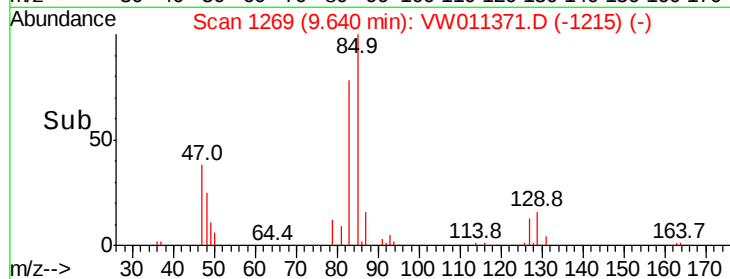
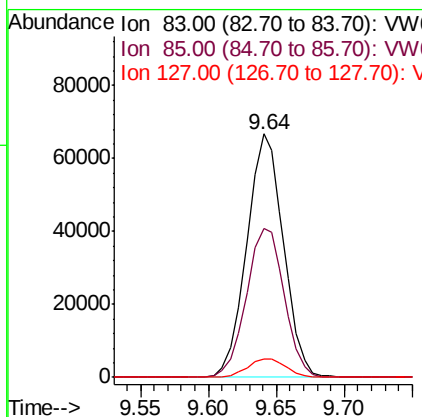
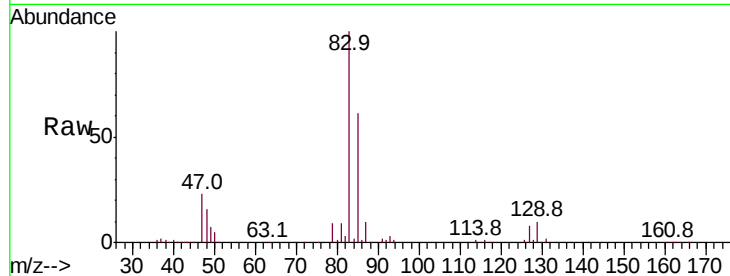
#41
Bromodichloromethane
Concen: 21.681 ug/L
RT: 9.64 min Scan# 1269
Delta R.T. 0.00 min
Lab File: VW011371.D
Acq: 19 Jul 2019 11:36

Instrument :
MSVOA_W
ClientSampleId :
GAMR3

Tot Ion	83	Resp	125933
Ion Ratio	100	Lower	Upper
83	100		
85	61.3	45.5	84.5
127	7.7	5.8	8.8

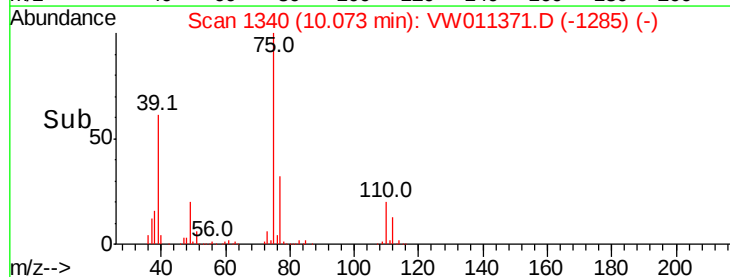
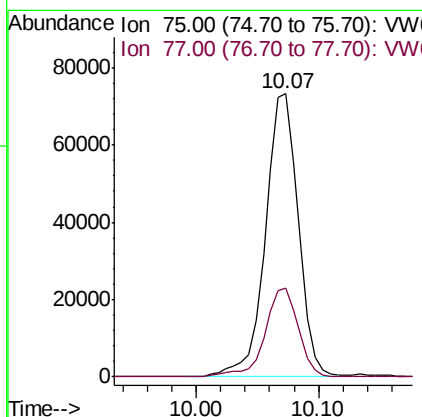
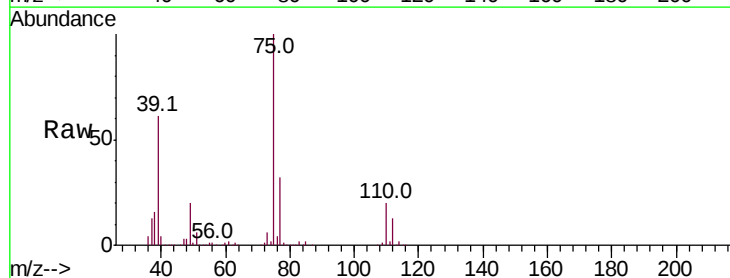
Manual Integrations
APPROVED

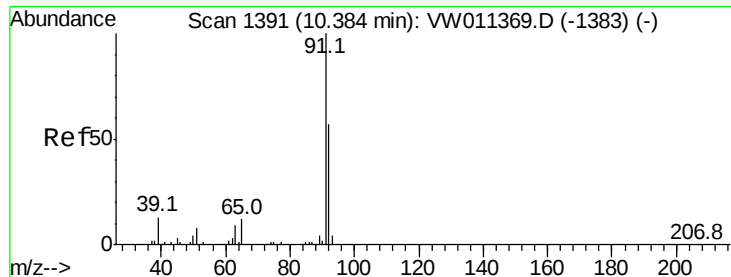
MMDadoda
7/24/2019 12:48:59 AM



#42
cis-1,3-Dichloropropene
Concen: 18.414 ug/L
RT: 10.07 min Scan# 1340
Delta R.T. 0.01 min
Lab File: VW011371.D
Acq: 19 Jul 2019 11:36

Tgt Ion	75	Resp	136885
Ion Ratio	100	Lower	Upper
75	100		
77	31.6	21.1	39.1





#44

Toluene

Concen: 22.979 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW011371.D

Acq: 19 Jul 2019 11:36

Instrument :

MSVOA_W

ClientSampled :

GAMR3

Tot Ion: 91 Resp: 437306

Ion Ratio Lower Upper

91 100

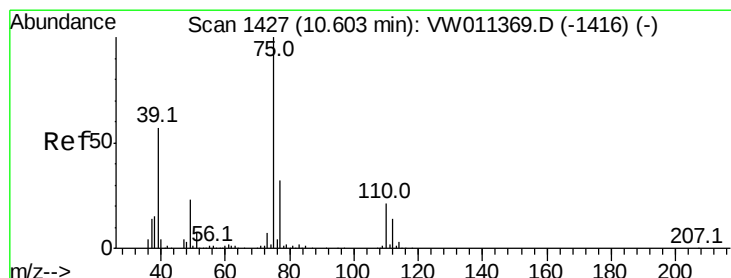
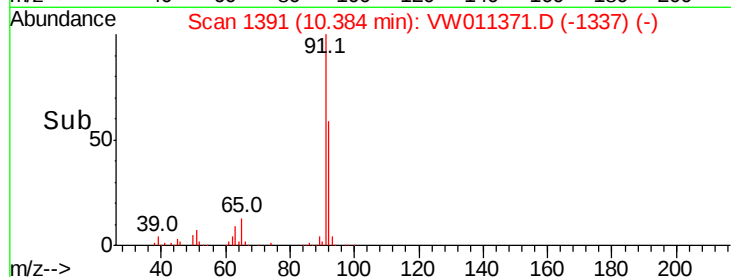
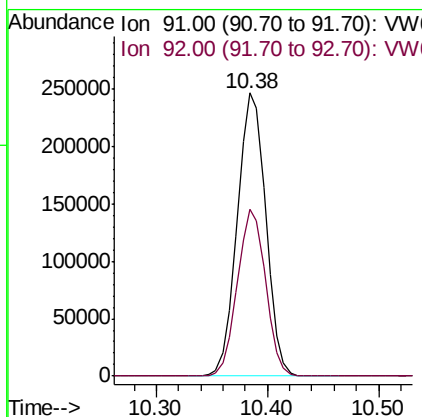
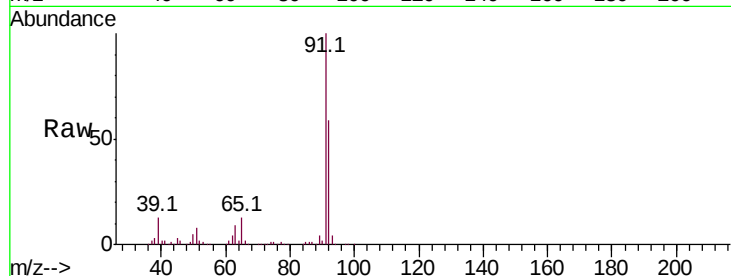
92 58.9 40.8 75.8

Manual Integrations

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#45

trans-1,3-Dichloropropene

Concen: 8.834 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW011371.D

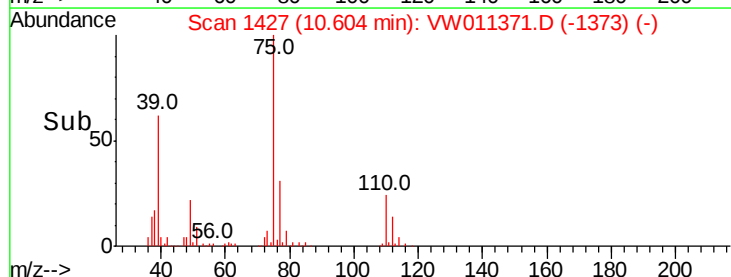
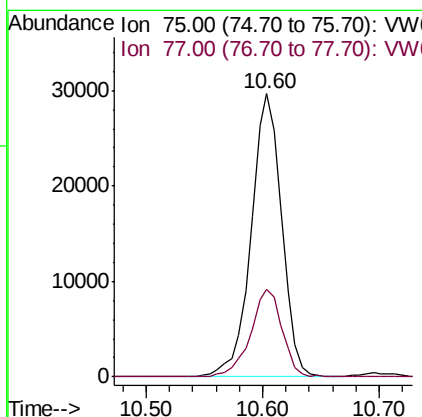
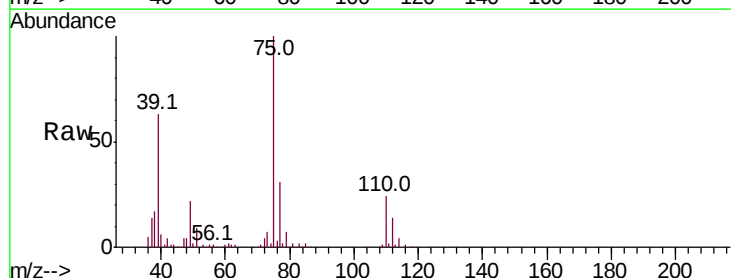
Acq: 19 Jul 2019 11:36

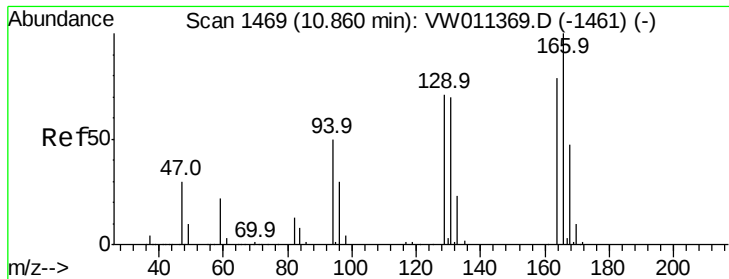
Tgt Ion: 75 Resp: 54335

Ion Ratio Lower Upper

75 100

77 31.1 22.3 41.5





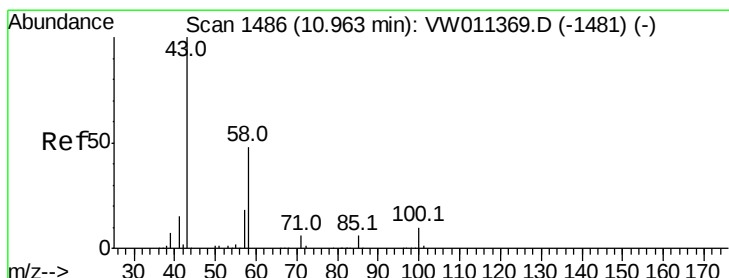
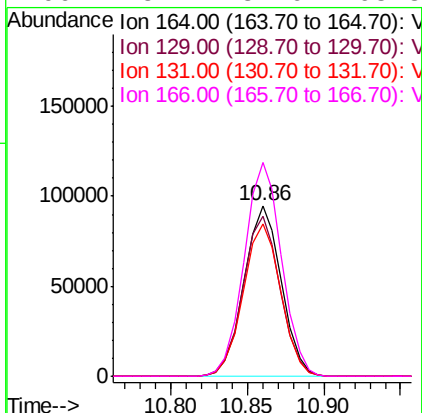
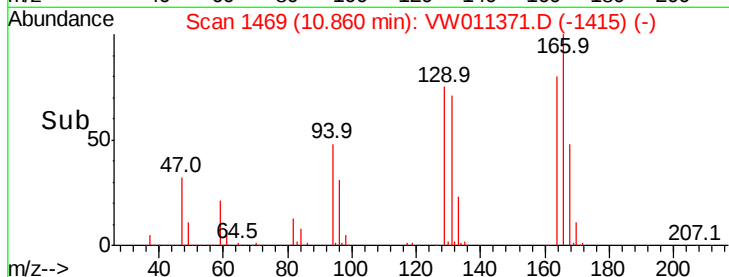
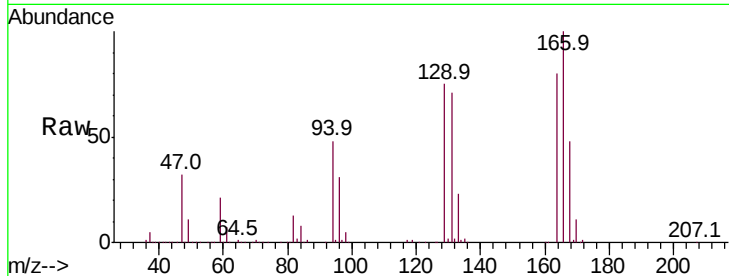
#47
Tetrachloroethene
Concen: 45.751 ug/L
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW011371.D
Acq: 19 Jul 2019 11:36

Instrument :
MSVOA_W
ClientSampleId :
GAMR3

Tot Ion	Ratio	Resp	Lower	Upper
164	100	160427		
129	94.2	68.5	127.1	
131	89.6	64.8	120.4	
166	125.4	87.9	163.3	

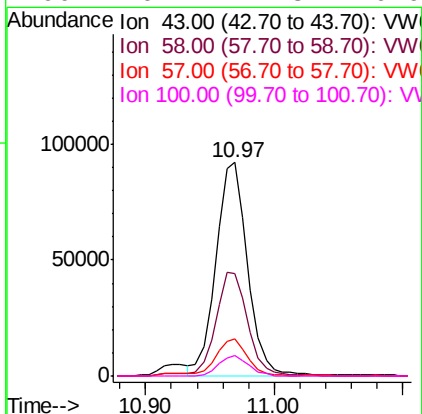
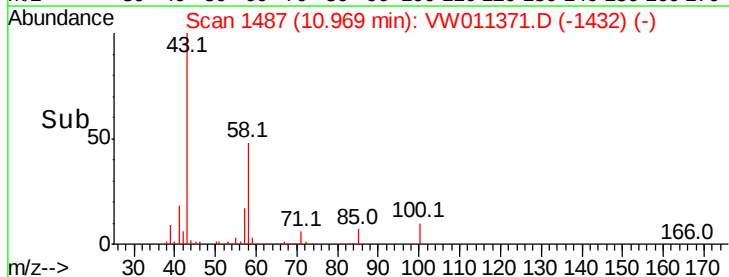
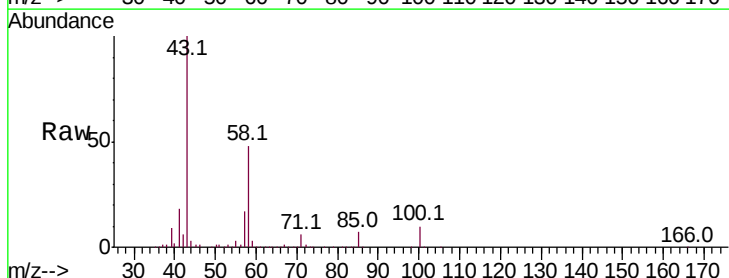
Manual Integrations
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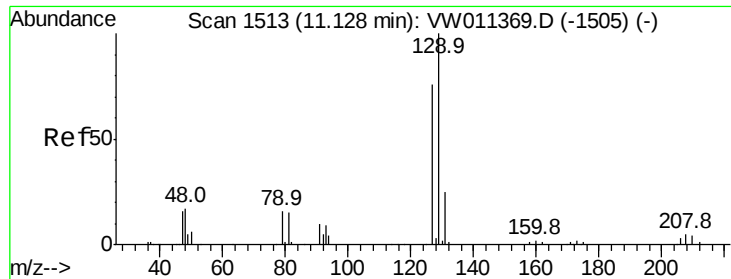
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#49
2-Hexanone
Concen: 46.838 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. 0.01 min
Lab File: VW011371.D
Acq: 19 Jul 2019 11:36

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	159226		
58	46.8	38.4	57.6	
57	17.0	13.3	19.9	
100	9.1	7.3	10.9	





#50

Dibromochloromethane

Concen: 20.824 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW011371.D

Acq: 19 Jul 2019 11:36

Instrument :

MSVOA_W

ClientSampled :

GAMR3

Tot Ion:129 Resp: 77365

Ion Ratio Lower Upper

129 100

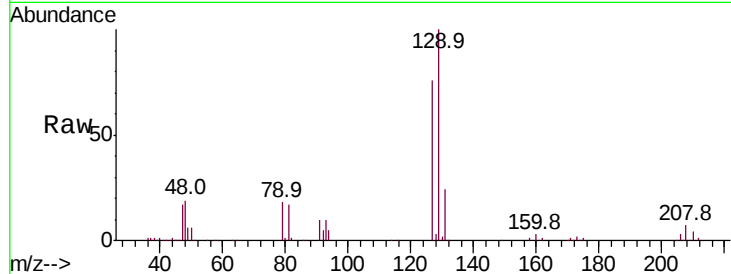
127 76.0 53.3 99.1

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Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

11.13

50000

40000

30000

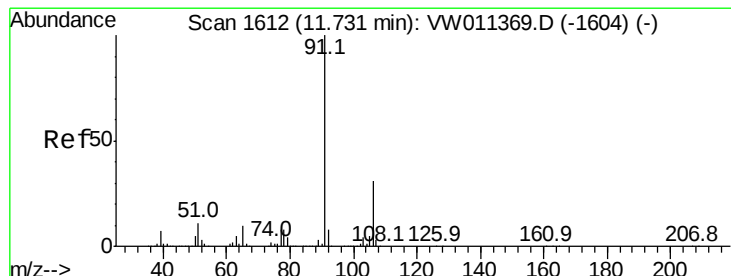
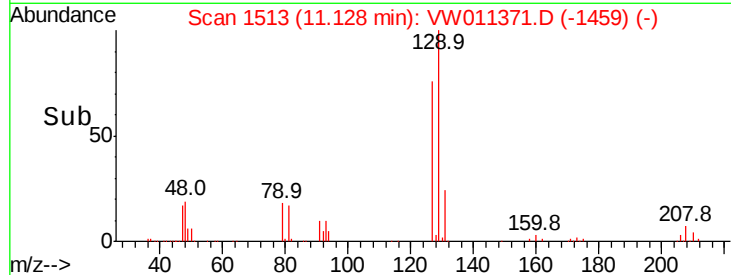
20000

10000

0

Time-->

11.05 11.10 11.15 11.20



#53

Ethylbenzene

Concen: 16.796 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW011371.D

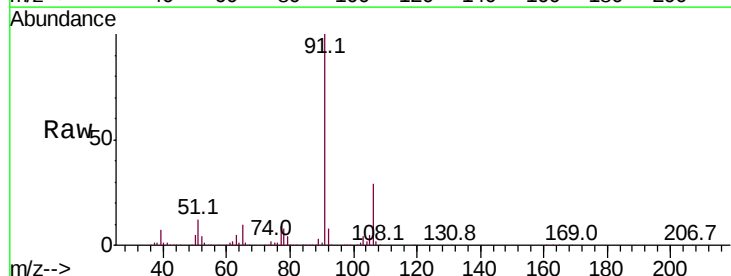
Acq: 19 Jul 2019 11:36

Tgt Ion: 91 Resp: 362566

Ion Ratio Lower Upper

91 100

106 29.5 20.6 38.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V

11.73

250000

200000

150000

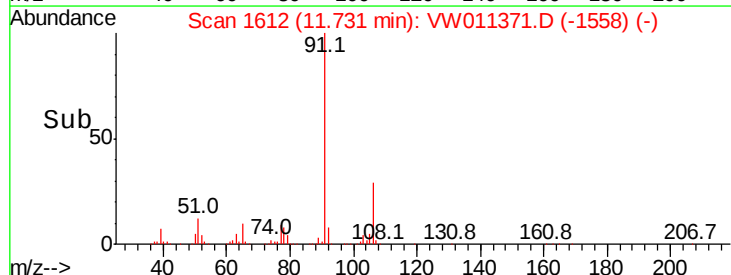
100000

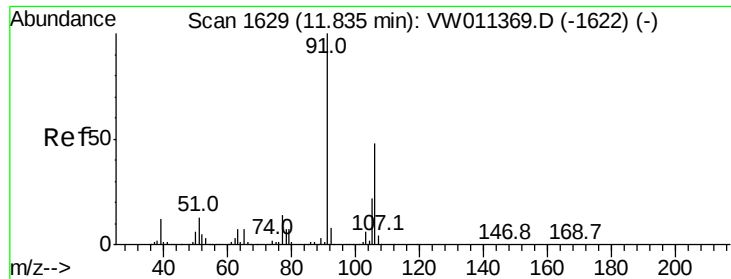
50000

0

Time-->

11.65 11.70 11.75 11.80





#54

m,p-Xylene

Concen: 11.183 ug/L

RT: 11.85 min Scan# 1631

Delta R.T. 0.01 min

Lab File: VW011371.D

Acq: 19 Jul 2019 11:36

Instrument :

MSVOA_W

ClientSampled :

GAMR3

Tot Ion:106 Resp: 87644

Ion Ratio Lower Upper

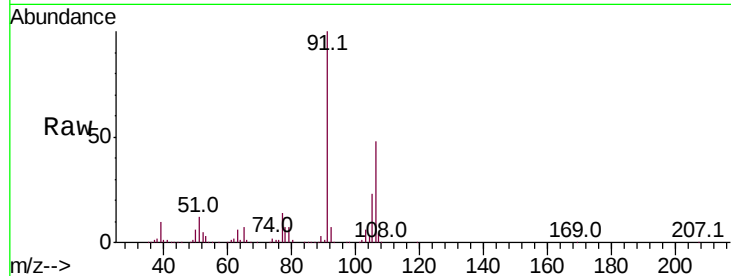
106 100

91 207.8 142.6 264.8

Manual Integrations
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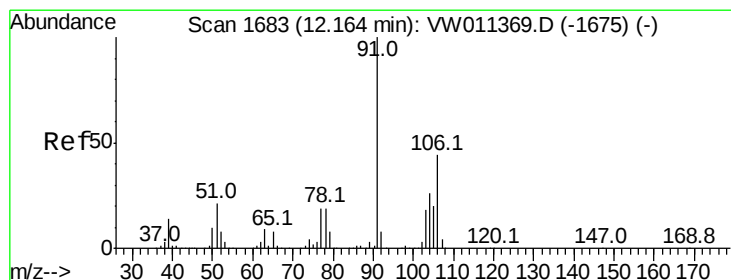
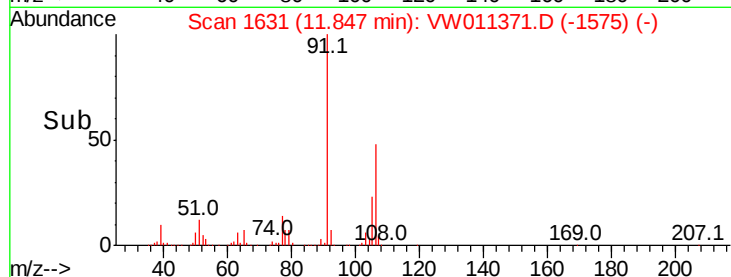
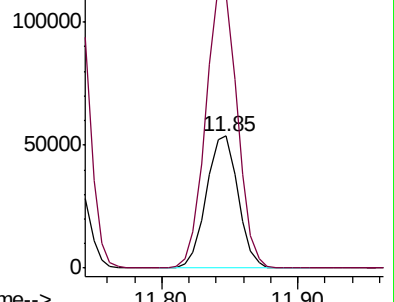
MMDadoda

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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 13.667 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW011371.D

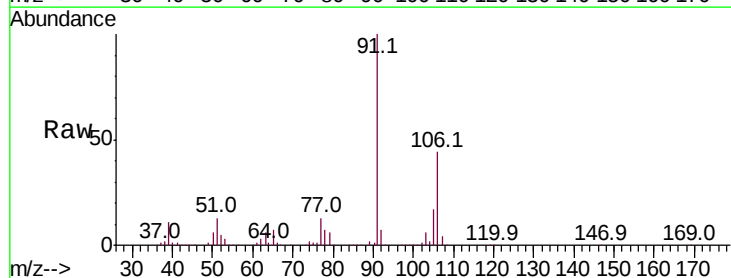
Acq: 19 Jul 2019 11:36

Tgt Ion:106 Resp: 101893

Ion Ratio Lower Upper

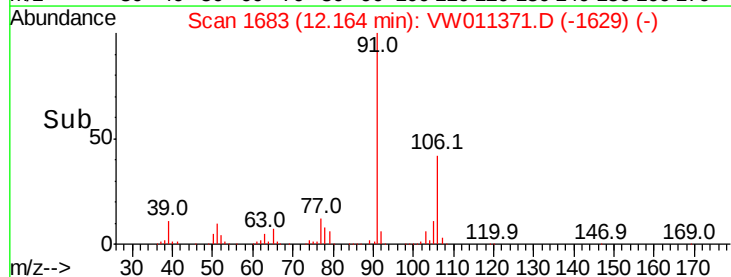
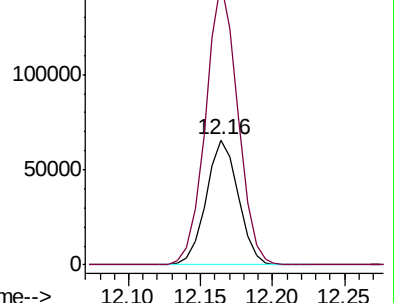
106 100

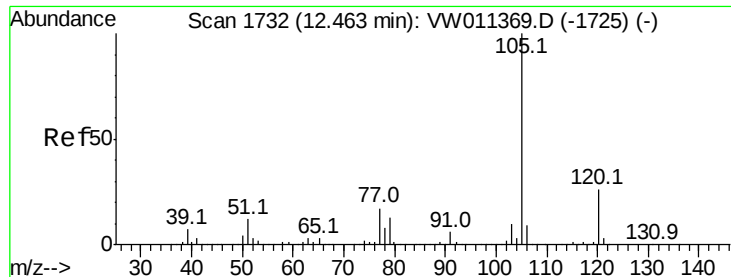
91 226.6 154.6 287.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





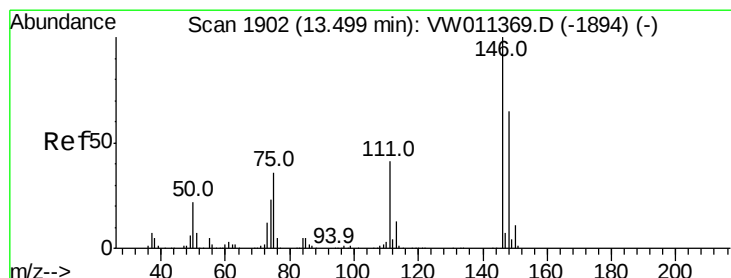
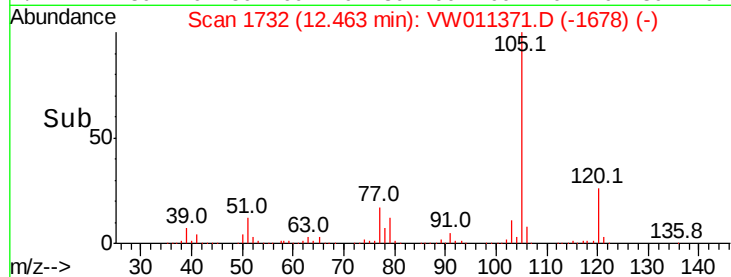
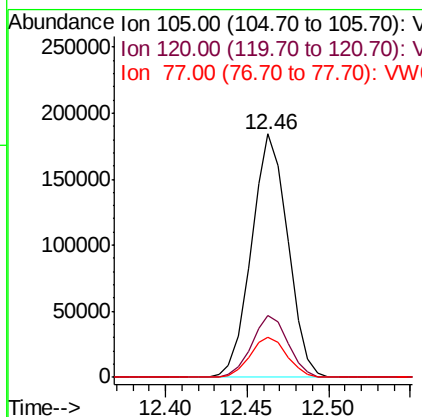
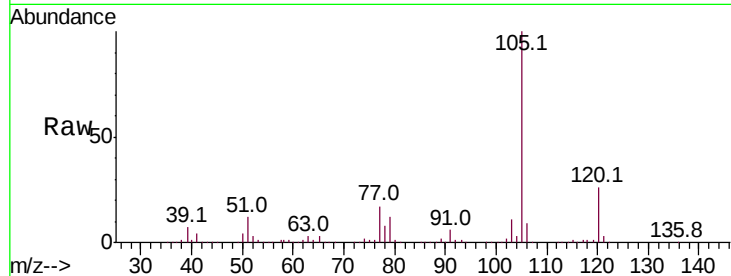
#57
Isopropylbenzene
Concen: 14.047 ug/L
RT: 12.46 min Scan# 1732
Delta R.T. 0.00 min
Lab File: VW011371.D
Acq: 19 Jul 2019 11:36

Instrument :
MSVOA_W
ClientSampled :
GAMR3

Tot Ion	Ratio	Resp Lower	Resp Upper
105	100		
120	25.4	20.7	31.1
77	16.8	13.5	20.3

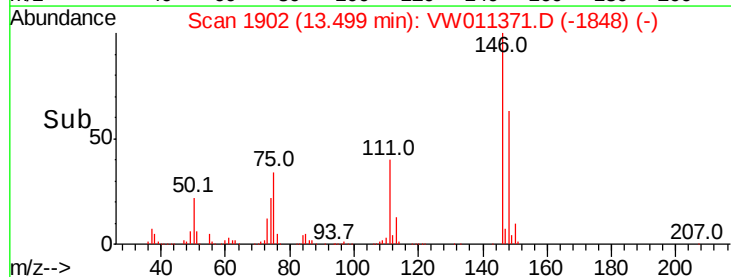
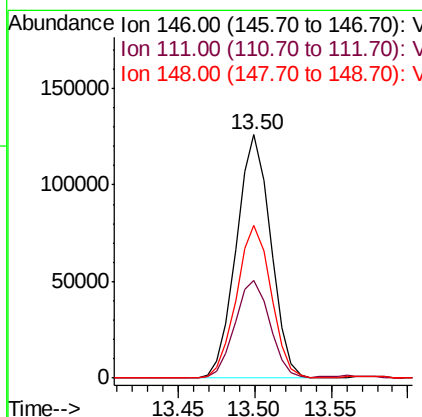
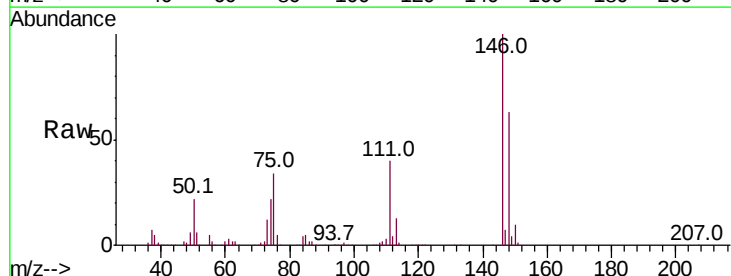
Manual Integrations
APPROVED

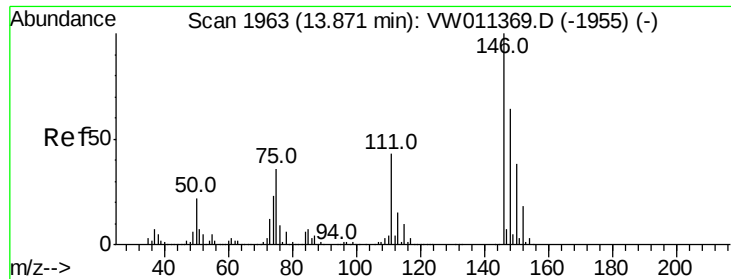
MMDadoda
7/24/2019 12:48:59 AM



#63
1,3-Dichlorobenzene
Concen: 21.902 ug/L
RT: 13.50 min Scan# 1902
Delta R.T. 0.00 min
Lab File: VW011371.D
Acq: 19 Jul 2019 11:36

Tgt Ion	Ratio	Resp Lower	Resp Upper
146	100		
111	40.2	29.0	53.8
148	62.6	44.4	82.5





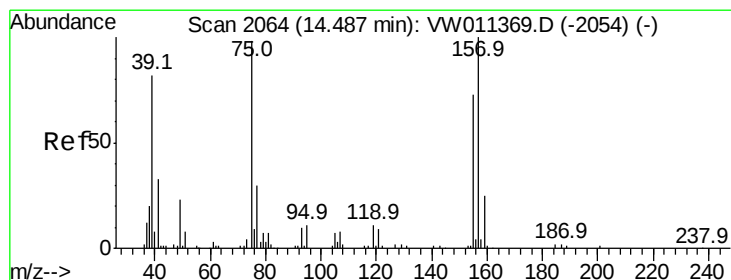
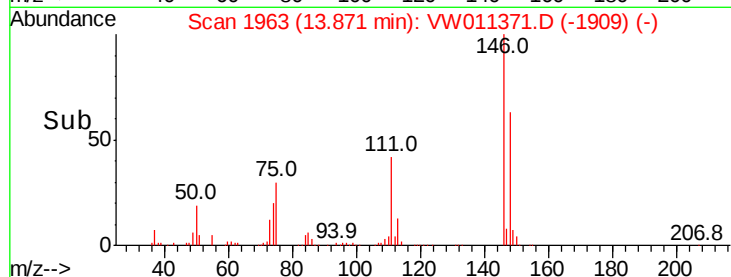
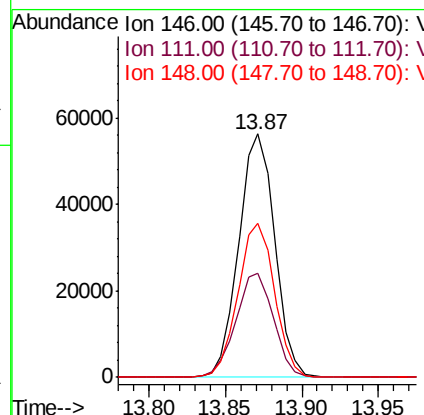
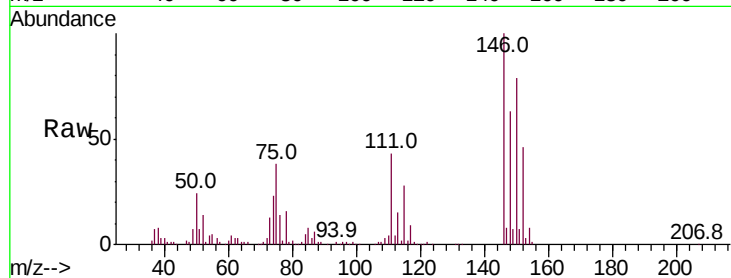
#65
 1,2-Dichlorobenzene
 Concen: 10.997 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW011371.D
 Acq: 19 Jul 2019 11:36

Instrument :
 MSVOA_W
 ClientSampleId :
 GAMR3

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.8	34.1	51.1
148	63.3	51.0	76.4

Manual Integrations
 APPROVED

MMDadoda
 7/24/2019 12:48:59 AM



#66
 1,2-Dibromo-3-chloropropane
 Concen: 17.789 ug/L
 RT: 14.48 min Scan# 2063
 Delta R.T. -0.01 min
 Lab File: VW011371.D
 Acq: 19 Jul 2019 11:36

Tgt Ion	Ratio	Lower	Upper
75	100		
157	85.4	75.3	112.9
155	72.7	60.2	90.2

