

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW121718\
 Data File : VW007544.D
 Acq On : 14 Dec 2018 19:01
 Operator : SY/AP
 Sample : J6347-05
 Misc : 2.82G/5ML/MSVOA_W/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 P001-SD002-0612-01

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 12/17/2018 1:44:34 PM

Quant Time: Dec 15 01:54:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W121118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 11 02:58:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	41313	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	68644	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	41637	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	11437	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	27750	60.55	ug/l	0.00
Spiked Amount			Recovery	=	121.10%	
35) Dibromofluoromethane	7.88	113	23173	55.77	ug/l	0.00
Spiked Amount			Recovery	=	111.54%	
50) Toluene-d8	10.34	98	64093	41.14	ug/l	0.02
Spiked Amount			Recovery	=	82.28%	
62) 4-Bromofluorobenzene	12.62	95	13899	24.26	ug/l	0.00
Spiked Amount			Recovery	=	48.52%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	4.12	43	19027	237.667	ug/l	93
25) 2-Butanone	7.17	43	10452	100.005	ug/l	99
27) cis-1,2-Dichloroethene	7.17	96	65886	132.727	ug/l	94
31) Cyclohexane	7.96	56	258580	363.166	ug/l	93
37) Ethyl Acetate	7.26	43	13599	58.389	ug/l #	79
39) Methylcyclohexane	9.34	83	449580	592.914	ug/l	92
40) Benzene	8.32	78	48811	28.088	ug/l	96
52) Toluene	10.40	92	38387675m	34134.187	ug/l	
64) Tetrachloroethene	10.87	164	1591	5.314	ug/l	88
65) Chlorobenzene	11.66	112	312391	359.961	ug/l	96
67) Ethyl Benzene	11.74	91	16055375	10760.464	ug/l #	86
68) m/p-Xylenes	11.85	106	24461663	42171.486	ug/l #	1
69) o-Xylene	12.18	106	8692773	16046.309	ug/l	90
73) Isopropylbenzene	12.47	105	351213	400.769	ug/l	99
78) n-propylbenzene	12.81	91	582828	590.955	ug/l	99
80) 1,3,5-Trimethylbenzene	12.95	105	625098	848.916	ug/l	99
84) 1,2,4-Trimethylbenzene	13.26	105	2106646	2780.171	ug/l	98
85) sec-Butylbenzene	13.39	105	40150m	45.330	ug/l	
86) p-Isopropyltoluene	13.51	119	228844	287.597	ug/l	98
87) 1,3-Dichlorobenzene	13.51	146	29888	77.170	ug/l	92
88) 1,4-Dichlorobenzene	13.58	146	308895	793.334	ug/l	97
89) n-Butylbenzene	13.83	91	56312	76.339	ug/l #	71
91) 1,2-Dichlorobenzene	13.87	146	91396	263.474	ug/l	96
93) 1,2,4-Trichlorobenzene	15.14	180	122366	512.581	ug/l	90
95) Naphthalene	15.37	128	600161	1314.159	ug/l	98
96) 1,2,3-Trichlorobenzene	15.57	180	33688	162.450	ug/l #	80

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

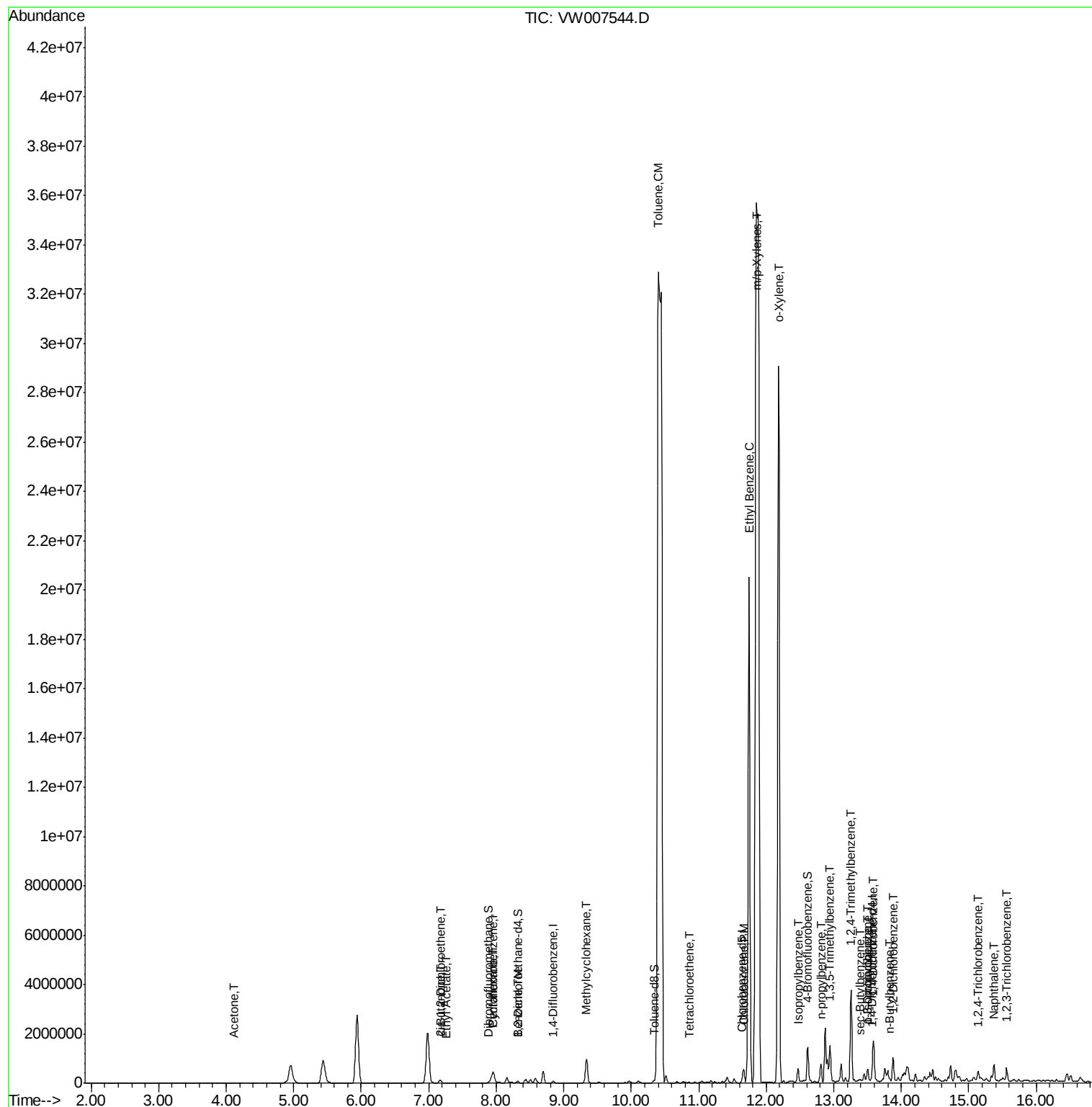
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_W\DATA\VW121718\
Data File : VW007544.D
Acq On : 14 Dec 2018 19:01
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Quant Time: Dec 15 01:54:50 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W121118S.M
Quant Title : SW846 8260
QLast Update : Tue Dec 11 02:58:16 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW007544.D

Acq: 14 Dec 2018 19:01

Instrument :

MSVOA_W

ClientSampleId :

P001-SD002-0612-01

Tgt Ion: 168 Resp: 41313

Ion Ratio Lower Upper

168 100

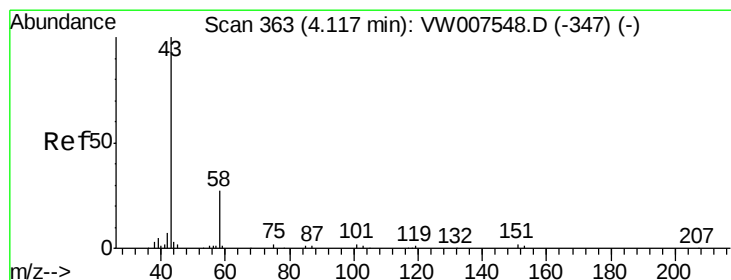
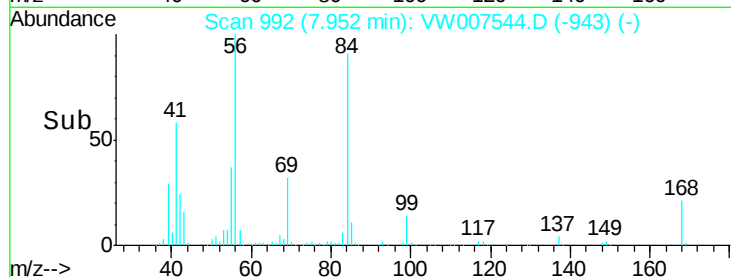
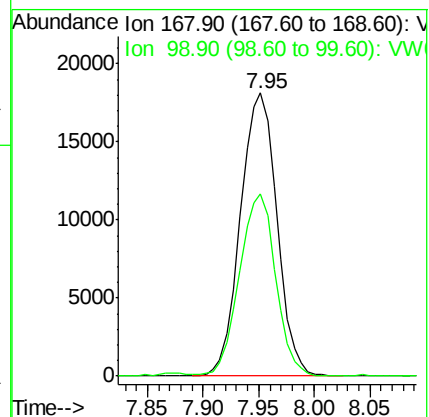
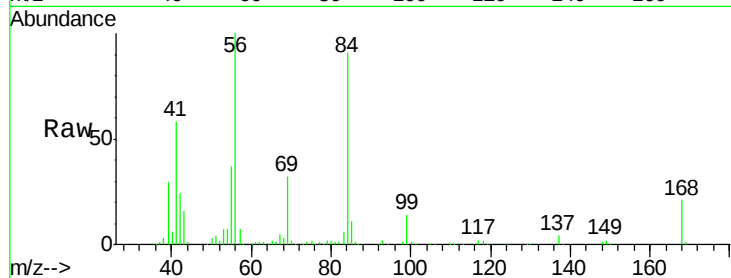
99 64.4 48.3 72.5

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#16

Acetone

Concen: 237.667 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW007544.D

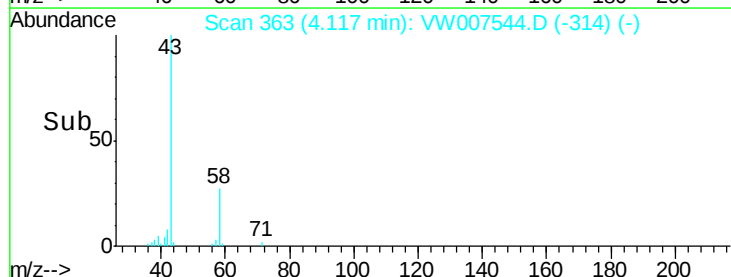
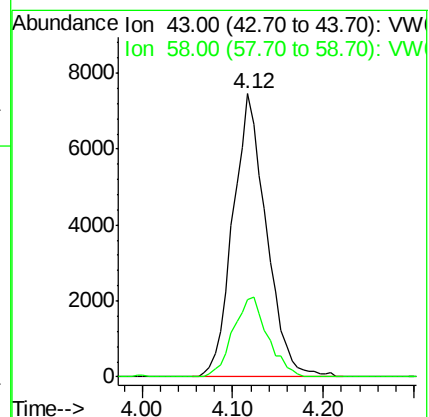
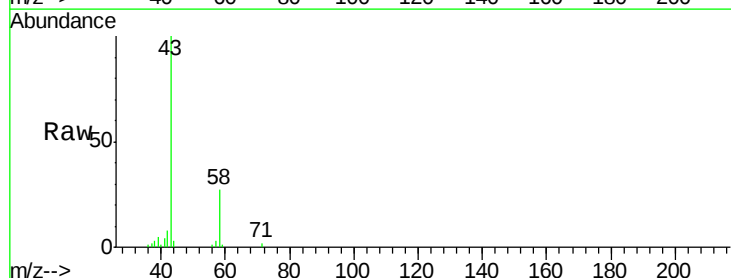
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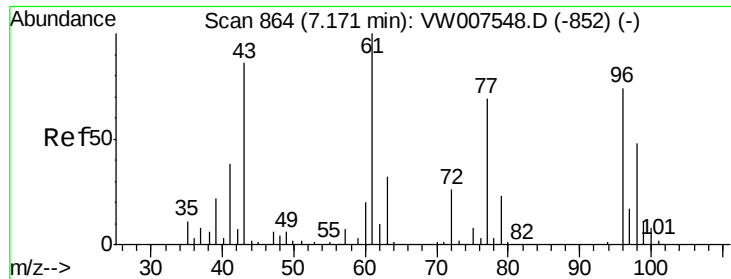
Tgt Ion: 43 Resp: 19027

Ion Ratio Lower Upper

43 100

58 27.3 24.9 37.3





#25

2-Butanone

Concen: 100.005 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW007544.D

Acq: 14 Dec 2018 19:01

Instrument :

MSVOA_W

ClientSampleId :

P001-SD002-0612-01

Tgt Ion: 43 Resp: 10452

Ion Ratio Lower Upper

43 100

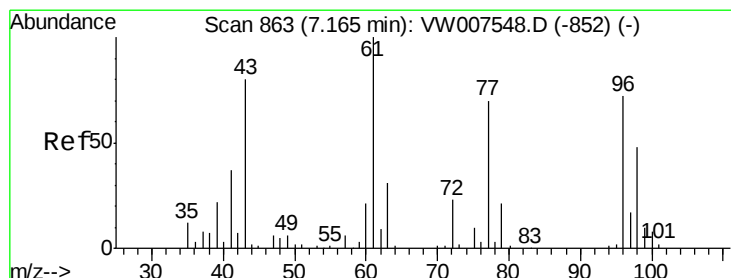
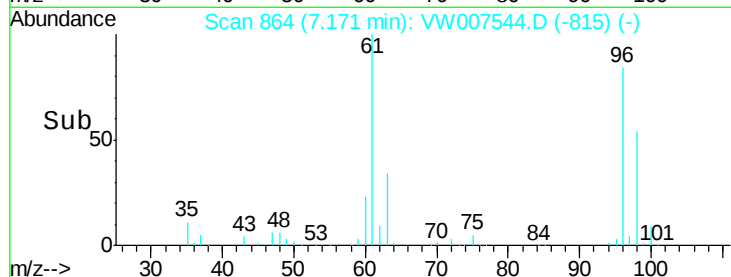
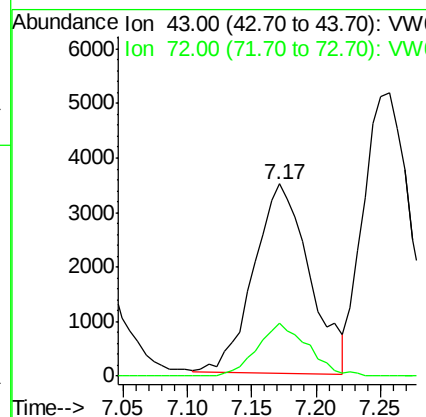
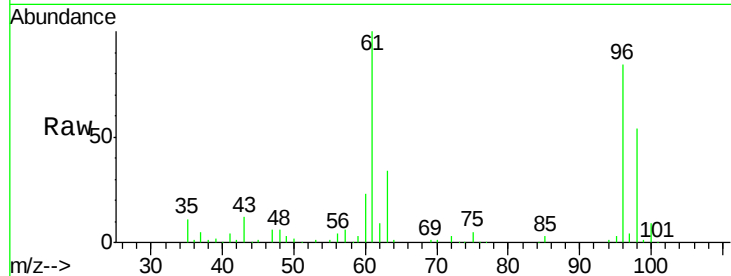
72 28.8 23.4 35.2

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#27

cis-1,2-Dichloroethene

Concen: 132.727 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW007544.D

Acq: 14 Dec 2018 19:01

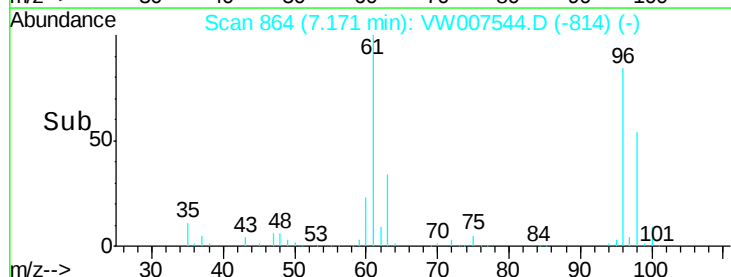
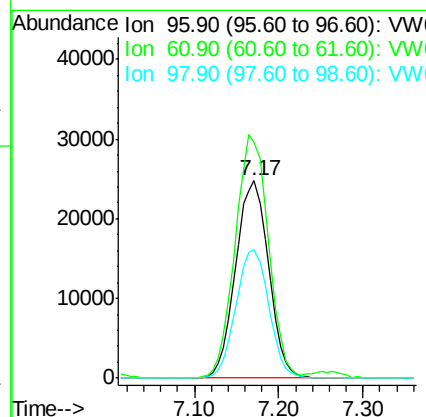
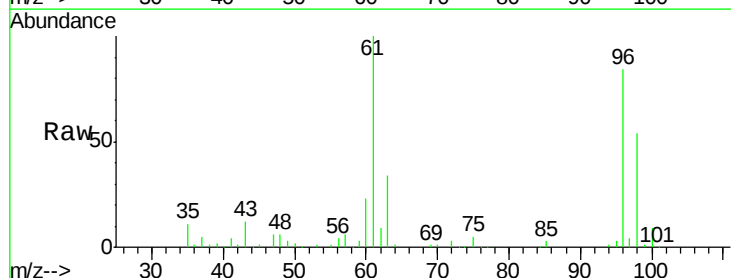
Tgt Ion: 96 Resp: 65886

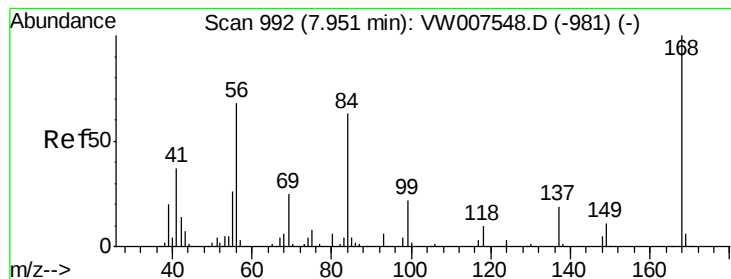
Ion Ratio Lower Upper

96 100

61 123.8 0.0 268.4

98 65.0 0.0 127.8





#31

Cyclohexane

Concen: 363.166 ug/l

RT: 7.96 min Scan# 993

Delta R.T. 0.01 min

Lab File: VW007544.D

Acq: 14 Dec 2018 19:01

Instrument :

MSVOA_W

ClientSampleId :

P001-SD002-0612-01

Tgt Ion: 56 Resp: 258580
Ion Ratio Lower Upper

56 100

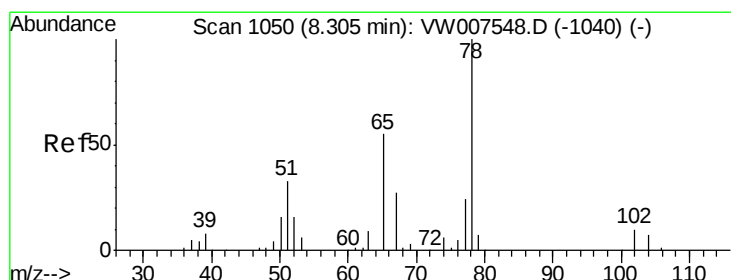
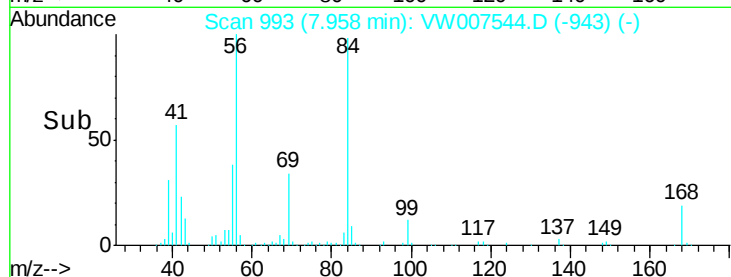
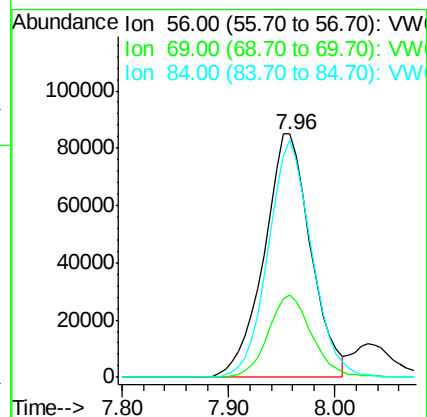
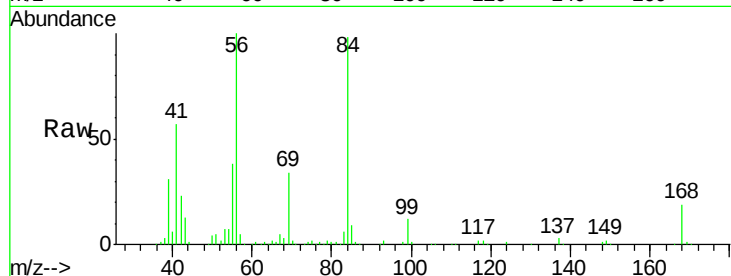
69 33.8 28.9 43.3

84 97.6 71.8 107.6

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#33

1,2-Dichloroethane-d4

Concen: 60.545 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. 0.01 min

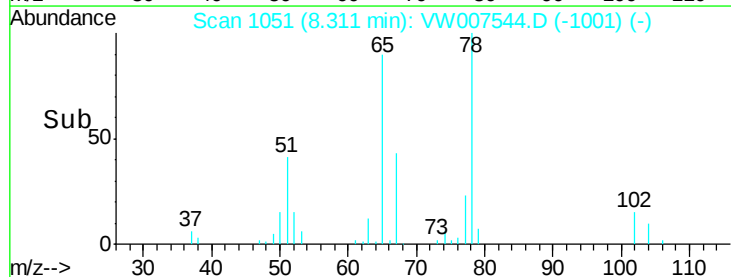
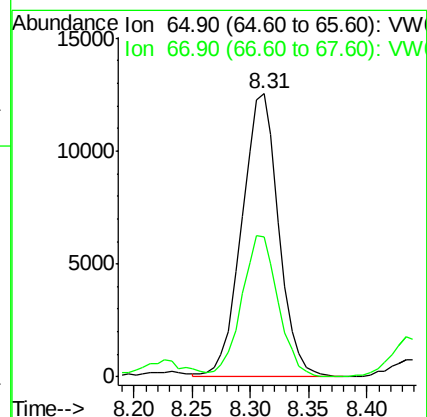
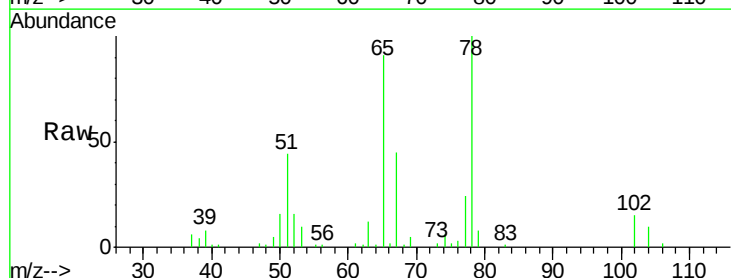
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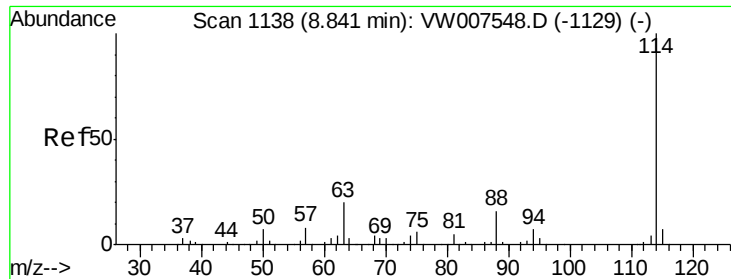
Acq: 14 Dec 2018 19:01

Tgt Ion: 65 Resp: 27750
Ion Ratio Lower Upper

65 100

67 49.3 0.0 101.6





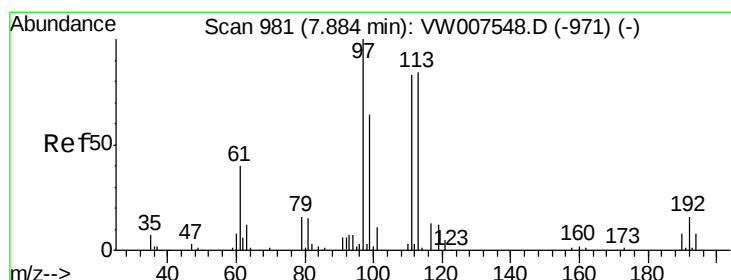
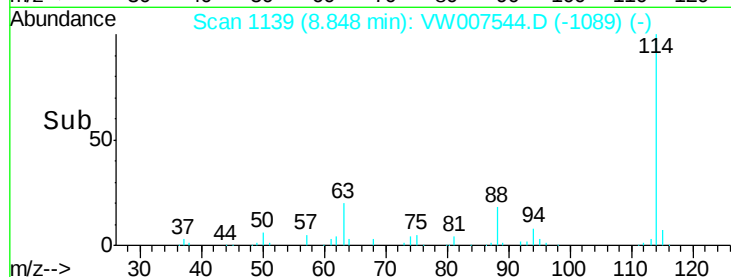
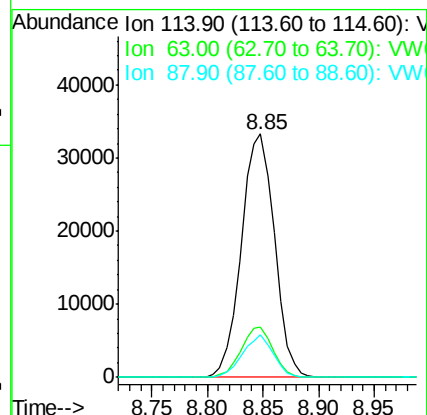
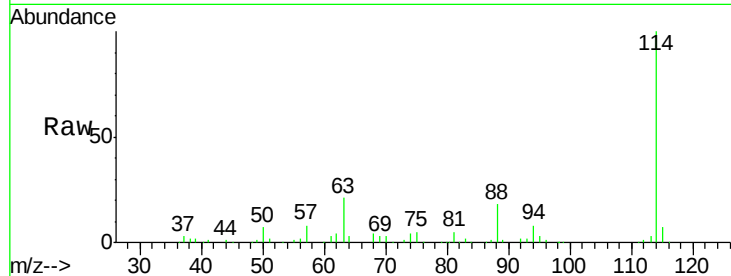
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.85 min Scan# 1139
Delta R.T. 0.01 min
Lab File: VW007544.D
Acq: 14 Dec 2018 19:01

Instrument :
MSVOA_W
ClientSampleId :
P001-SD002-0612-01

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	68644		
63	20.8	0.0	39.6	
88	17.5	0.0	31.4	

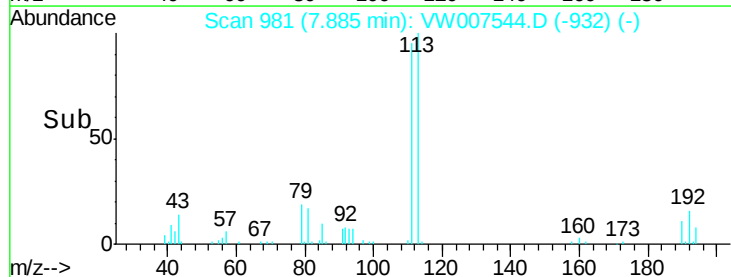
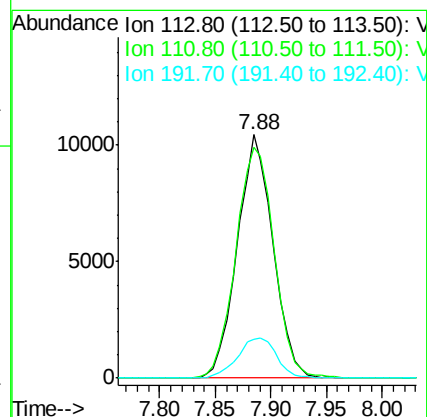
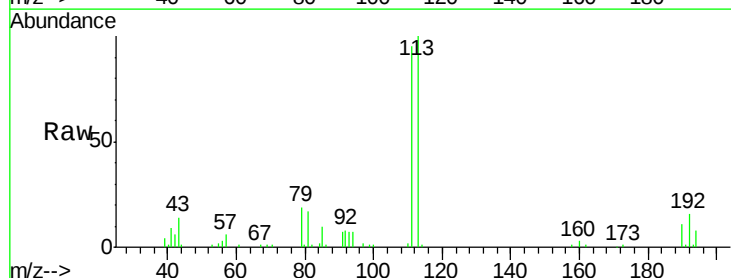
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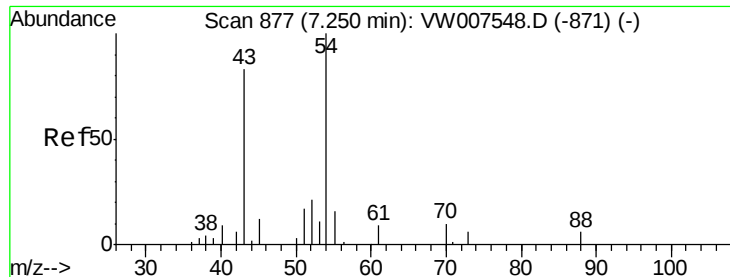
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#35
Dibromofluoromethane
Concen: 55.767 ug/l
RT: 7.88 min Scan# 981
Delta R.T. 0.00 min
Lab File: VW007544.D
Acq: 14 Dec 2018 19:01

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	23173		
111	102.1	81.1	121.7	
192	18.2	14.6	21.8	





#37

Ethyl Acetate

Concen: 58.389 ug/l

RT: 7.26 min Scan# 878

Delta R.T. 0.01 min

Lab File: VW007544.D

Acq: 14 Dec 2018 19:01

Instrument :

MSVOA_W

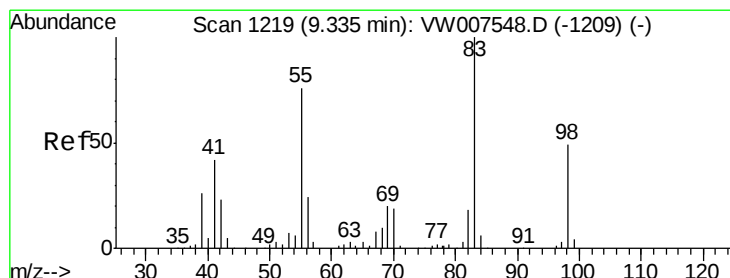
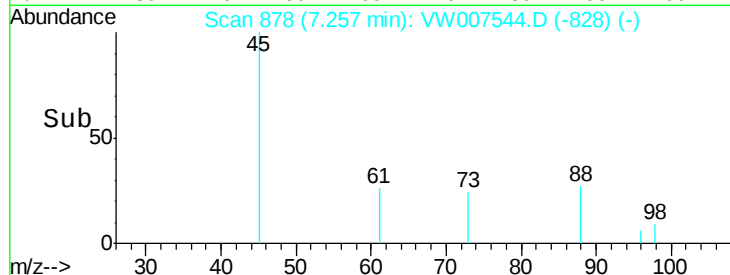
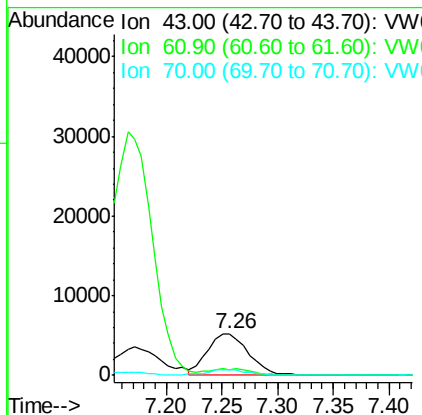
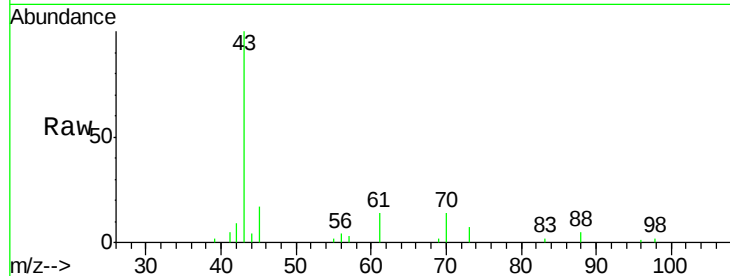
ClientSampleId :

P001-SD002-0612-01

Tgt Ion:	43	Resp:	13599
Ion Ratio	Lower	Upper	
43	100		
61	0.0	12.1	18.1#
70	13.7	10.0	15.0

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#39

Methylcyclohexane

Concen: 592.914 ug/l

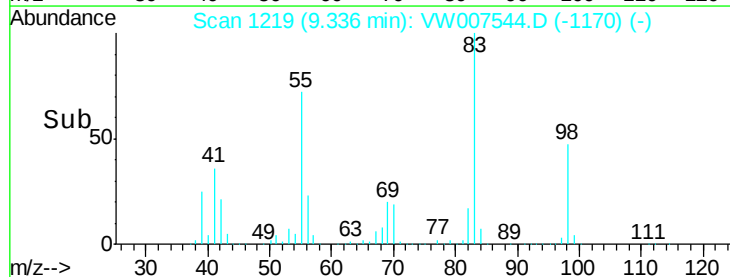
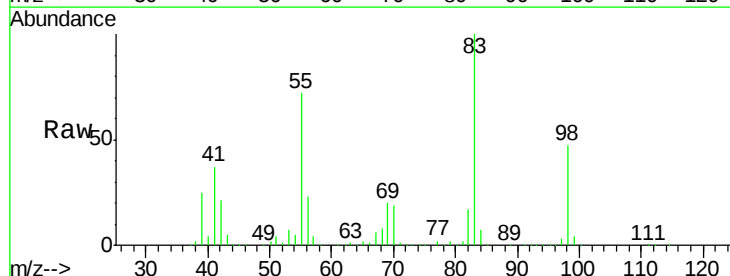
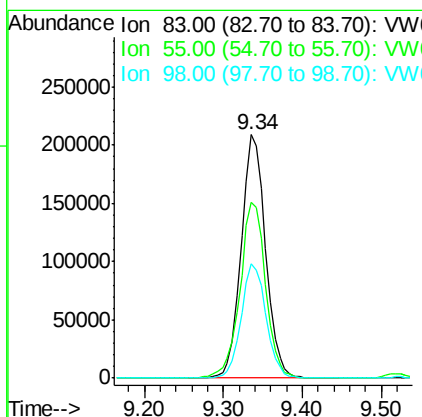
RT: 9.34 min Scan# 1219

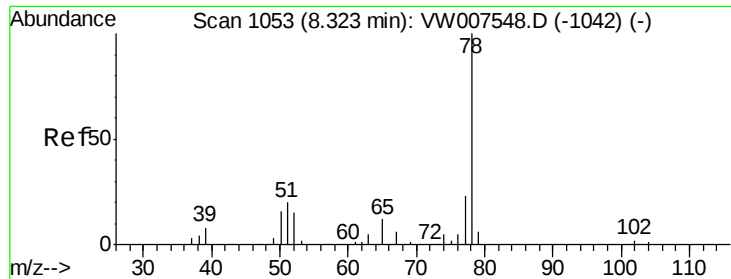
Delta R.T. 0.00 min

Lab File: VW007544.D

Acq: 14 Dec 2018 19:01

Tgt Ion:	83	Resp:	449580
Ion Ratio	Lower	Upper	
83	100		
55	72.0	62.8	94.2
98	46.9	42.2	63.2





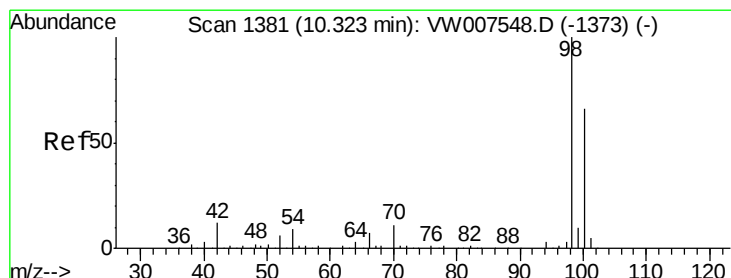
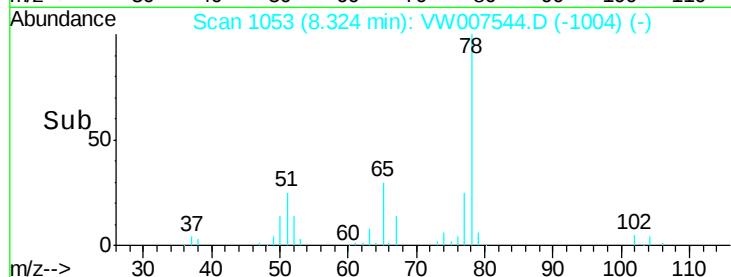
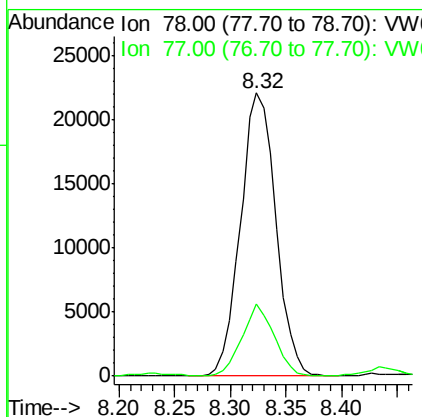
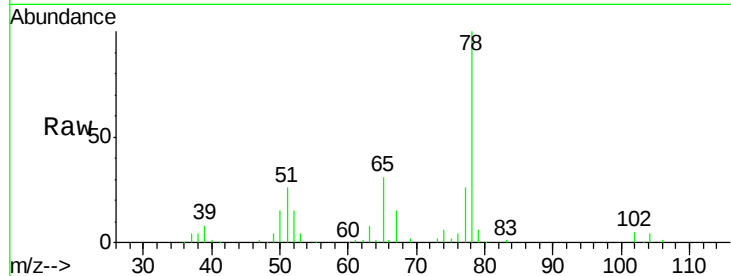
#40
Benzene
Concen: 28.088 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. 0.00 min
Lab File: VW007544.D
Acq: 14 Dec 2018 19:01

Instrument :
MSVOA_W
ClientSampleId :
P001-SD002-0612-01

Tgt Ion: 78 Resp: 48811
Ion Ratio Lower Upper
78 100
77 25.4 18.8 28.2

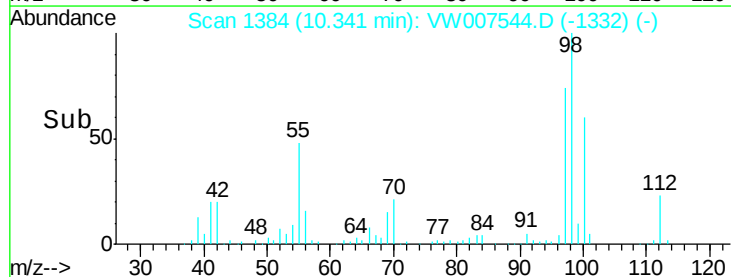
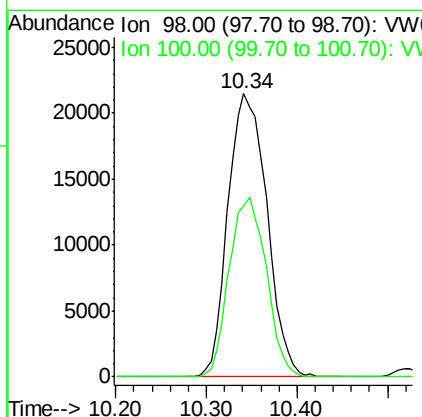
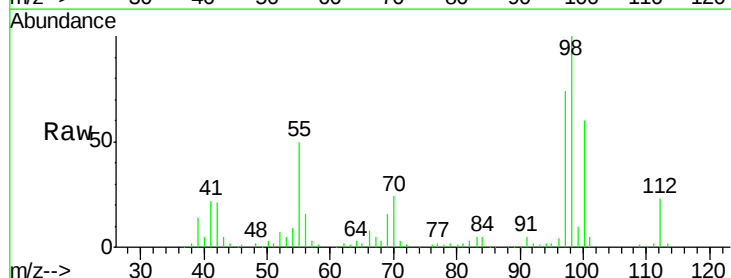
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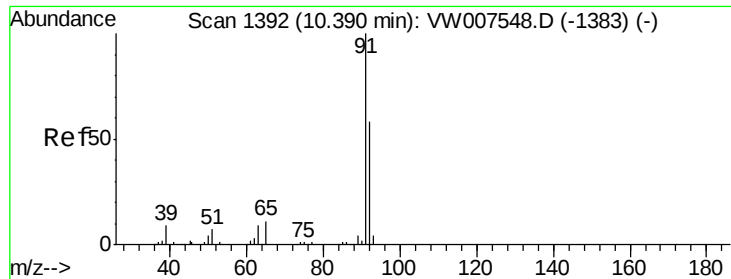
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#50
Toluene-d8
Concen: 41.138 ug/l
RT: 10.34 min Scan# 1384
Delta R.T. 0.02 min
Lab File: VW007544.D
Acq: 14 Dec 2018 19:01

Tgt Ion: 98 Resp: 64093
Ion Ratio Lower Upper
98 100
100 60.3 51.8 77.8





#52

Toluene

Concen: 34134.187 ug/l m

RT: 10.40 min Scan# 1394

Delta R.T. 0.01 min

Lab File: VW007544.D

Acq: 14 Dec 2018 19:01

Instrument :

MSVOA_W

ClientSampleId :

P001-SD002-0612-01

Tgt Ion: 92 Resp: 38387675

Ion Ratio Lower Upper

92 100

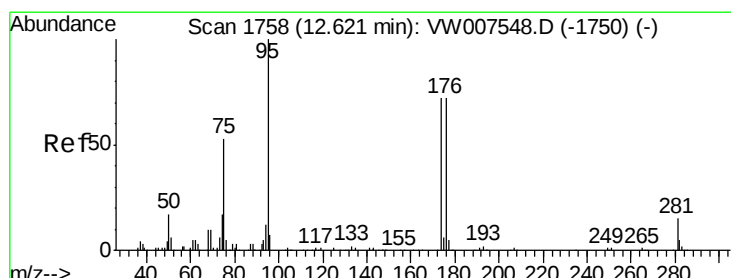
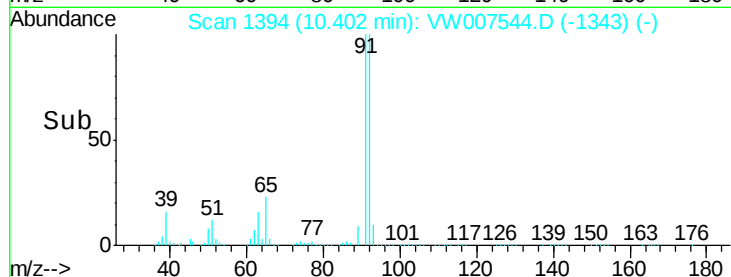
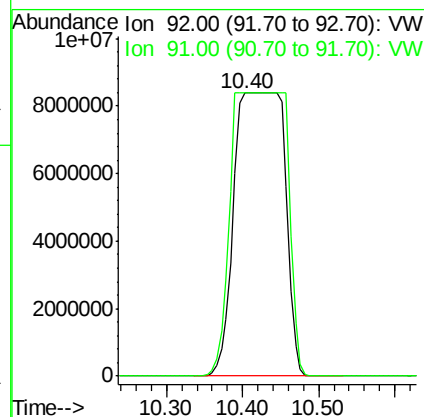
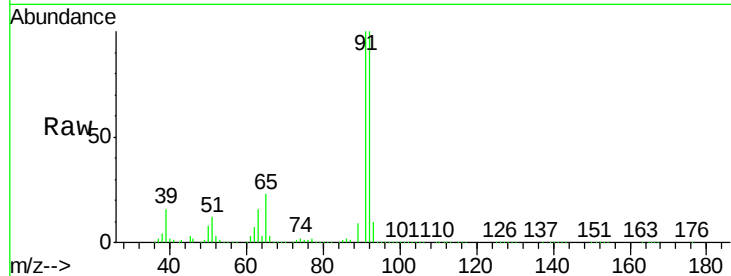
91 0.0 136.2 204.2#

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#62

4-Bromofluorobenzene

Concen: 24.263 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW007544.D

Acq: 14 Dec 2018 19:01

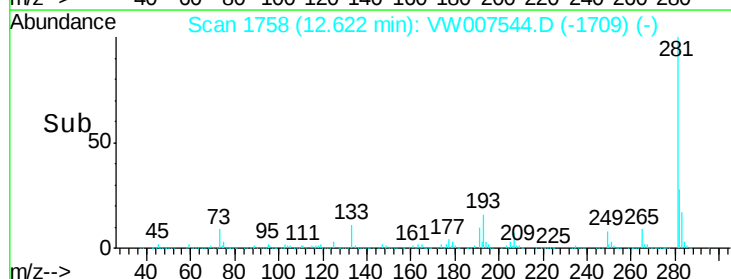
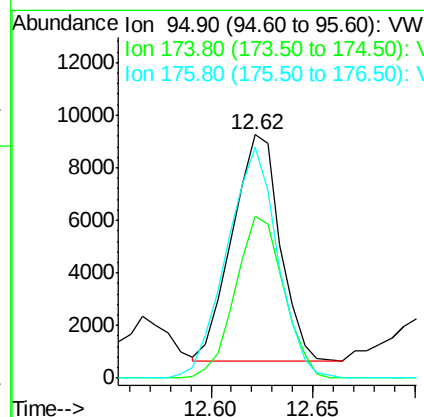
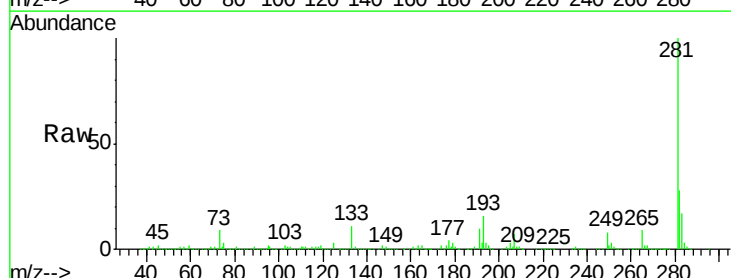
Tgt Ion: 95 Resp: 13899

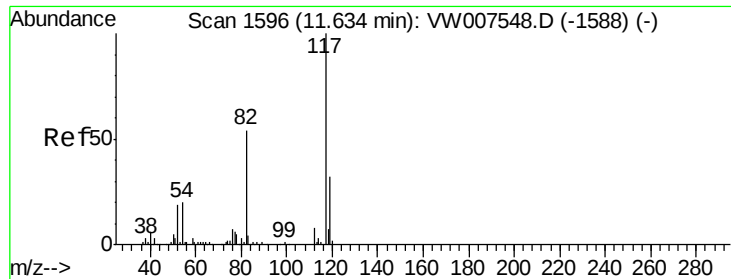
Ion Ratio Lower Upper

95 100

174 72.7 0.0 147.2

176 109.3 0.0 138.8





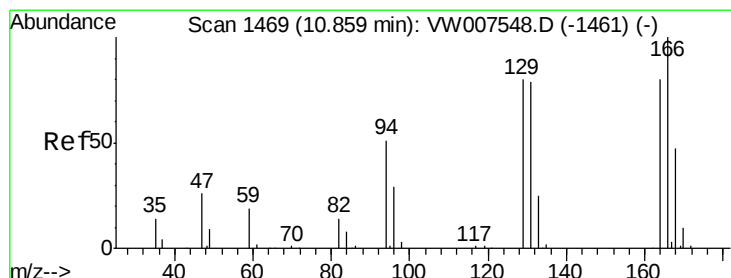
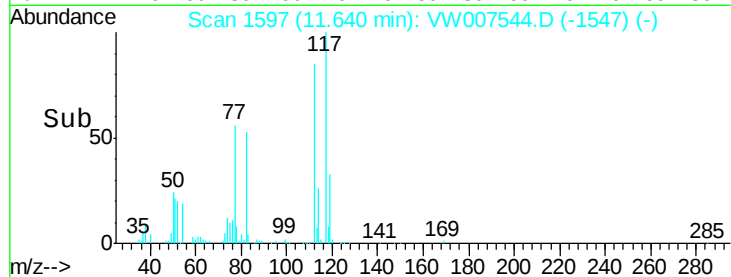
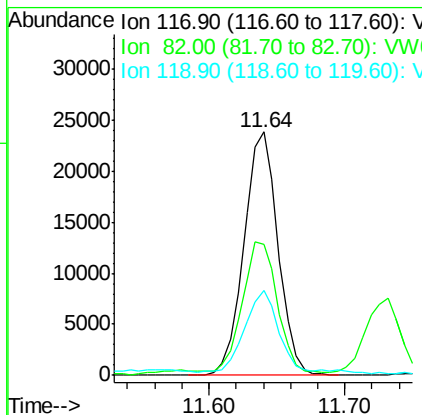
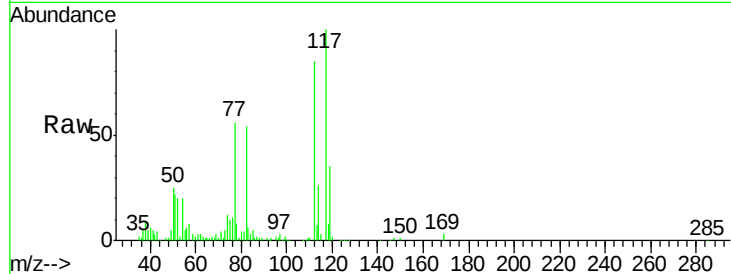
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1597
Delta R.T. 0.01 min
Lab File: VW007544.D
Acq: 14 Dec 2018 19:01

Instrument :
MSVOA_W
ClientSampleId :
P001-SD002-0612-01

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.3	42.3	63.5
119	33.4	23.0	34.6

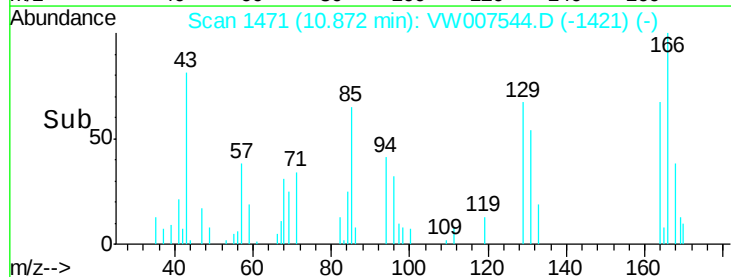
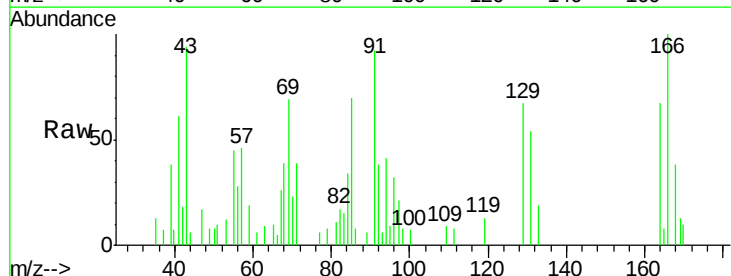
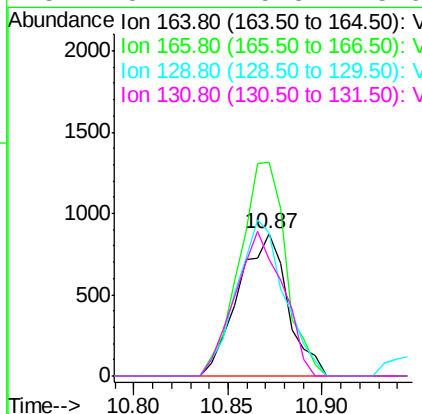
Manual Integrations
APPROVED

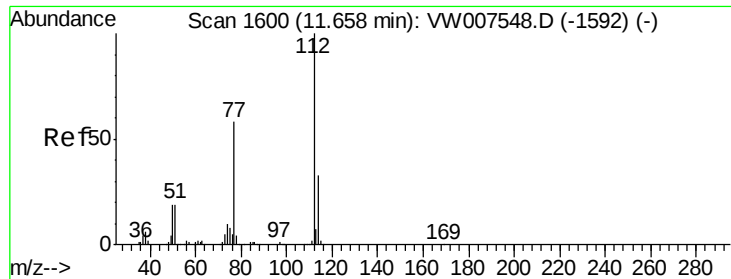
apatel
12/17/2018 1:44:34 PM



#64
Tetrachloroethene
Concen: 5.314 ug/l
RT: 10.87 min Scan# 1471
Delta R.T. 0.01 min
Lab File: VW007544.D
Acq: 14 Dec 2018 19:01

Tgt Ion	Ratio	Lower	Upper
164	100		
166	149.8	107.9	161.9
129	101.0	73.4	110.2
131	81.4	75.8	113.6





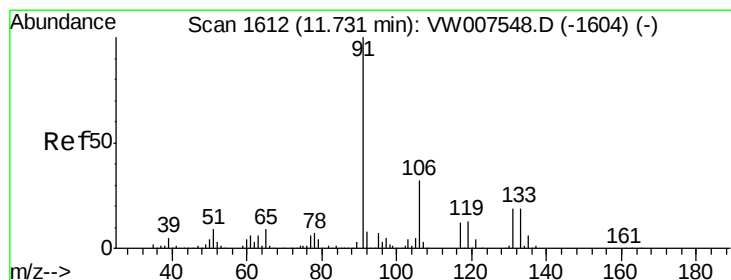
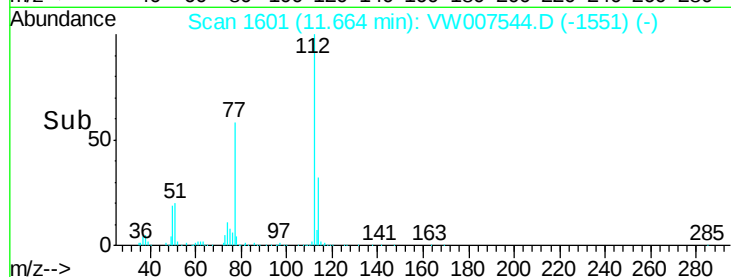
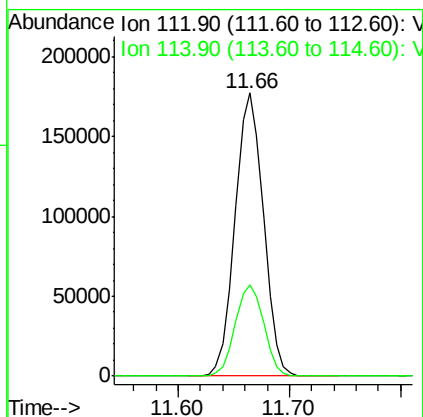
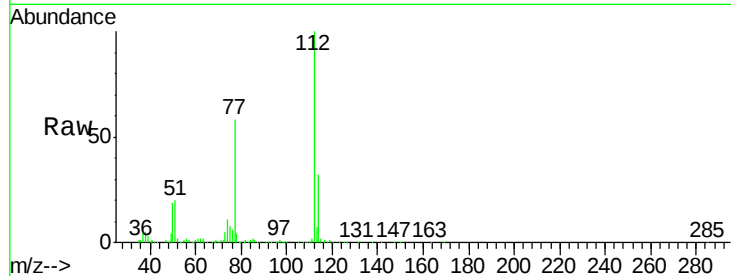
#65
Chlorobenzene
Concen: 359.961 ug/l
RT: 11.66 min Scan# 1601
Delta R.T. 0.01 min
Lab File: VW007544.D
Acq: 14 Dec 2018 19:01

Instrument :
MSVOA_W
ClientSampleId :
P001-SD002-0612-01

Tgt Ion: 112 Resp: 312391
Ion Ratio Lower Upper
112 100
114 32.4 27.8 41.8

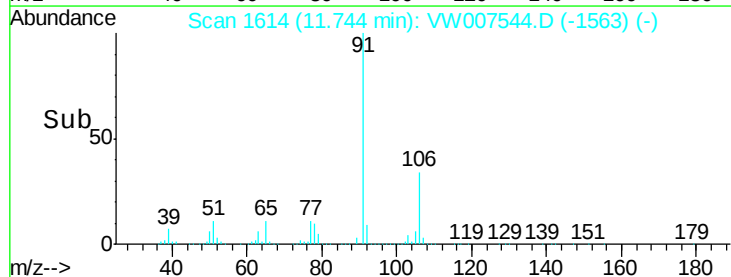
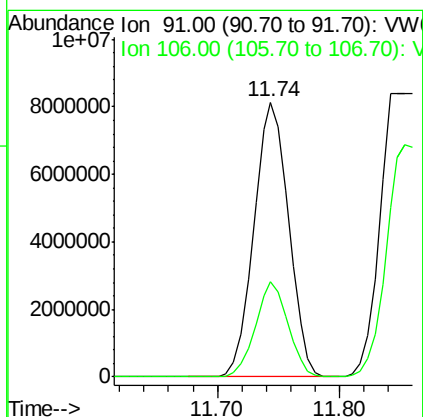
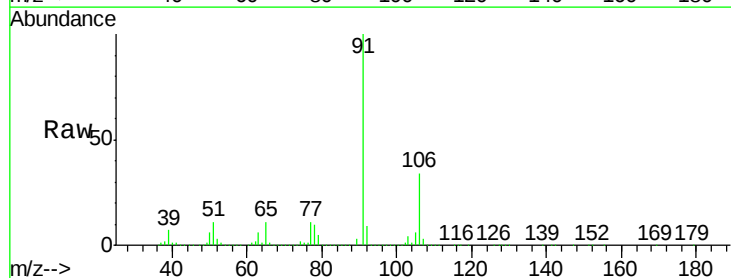
Manual Integrations
APPROVED

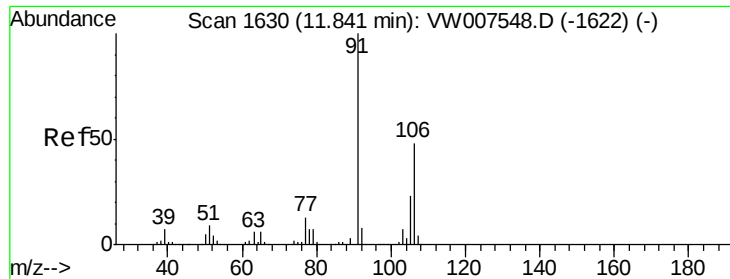
apatel
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#67
Ethyl Benzene
Concen: 10760.464 ug/l
RT: 11.74 min Scan# 1614
Delta R.T. 0.01 min
Lab File: VW007544.D
Acq: 14 Dec 2018 19:01

Tgt Ion: 91 Resp: 16055375
Ion Ratio Lower Upper
91 100
106 34.4 21.8 32.8#





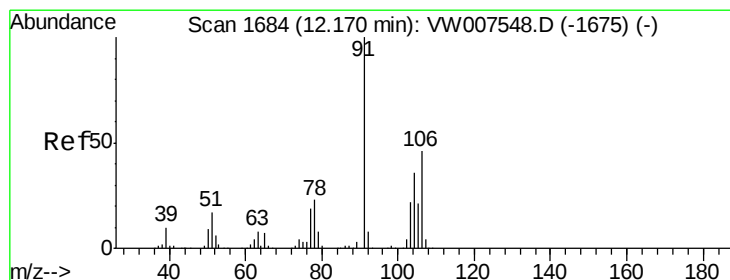
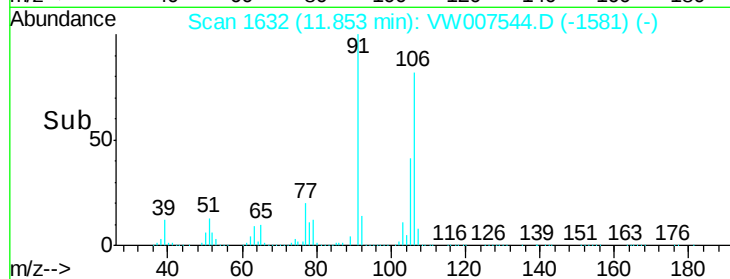
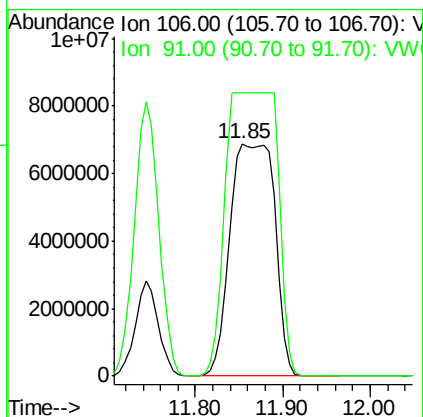
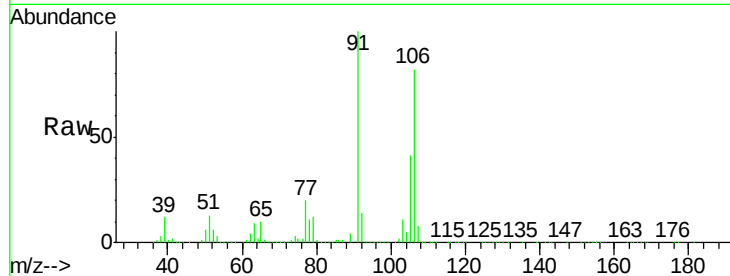
#68
m/p-Xylenes
Concen: 42171.486 ug/l
RT: 11.85 min Scan# 1632
Delta R.T. 0.01 min
Lab File: VW007544.D
Acq: 14 Dec 2018 19:01

Instrument :
MSVOA_W
ClientSampleId :
P001-SD002-0612-01

Tgt Ion:106 Resp:24461663
Ion Ratio Lower Upper
106 100
91 0.0 165.3 247.9#

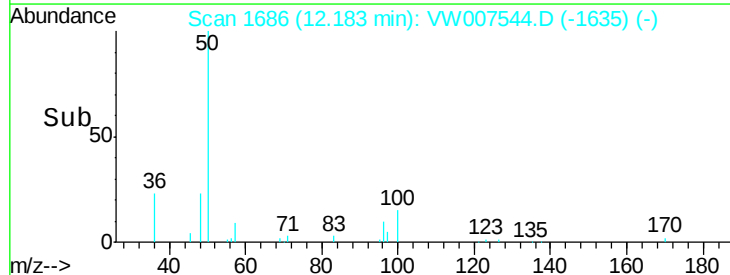
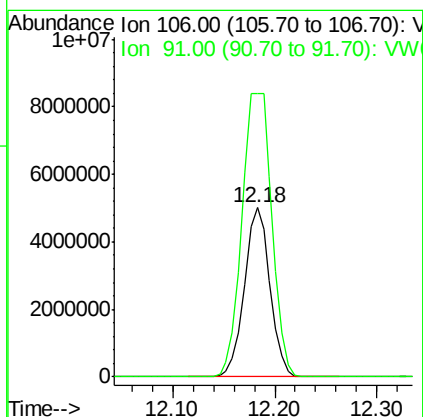
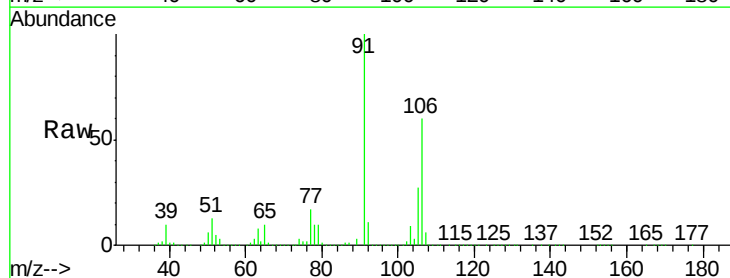
Manual Integrations
APPROVED

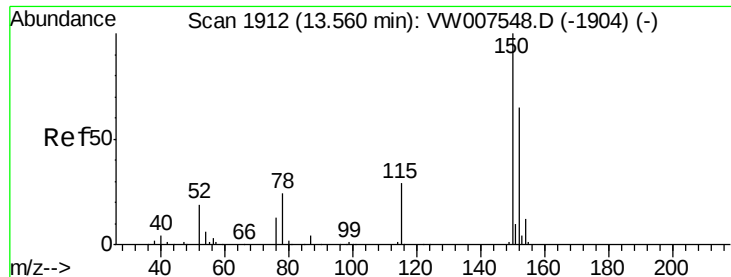
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#69
o-Xylene
Concen: 16046.309 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.01 min
Lab File: VW007544.D
Acq: 14 Dec 2018 19:01

Tgt Ion:106 Resp: 8692773
Ion Ratio Lower Upper
106 100
91 197.6 106.6 319.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW007544.D

Acq: 14 Dec 2018 19:01

Instrument :

MSVOA_W

ClientSampleId :

P001-SD002-0612-01

Tgt Ion:152 Resp: 11437
Ion Ratio Lower Upper

152 100

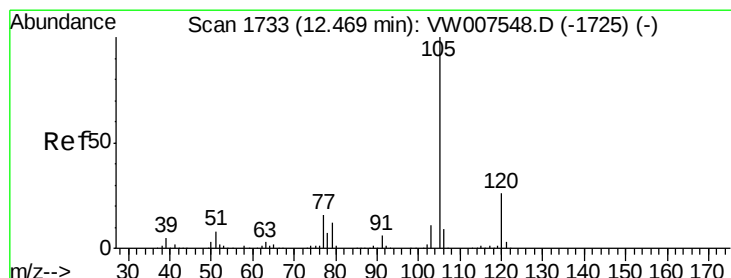
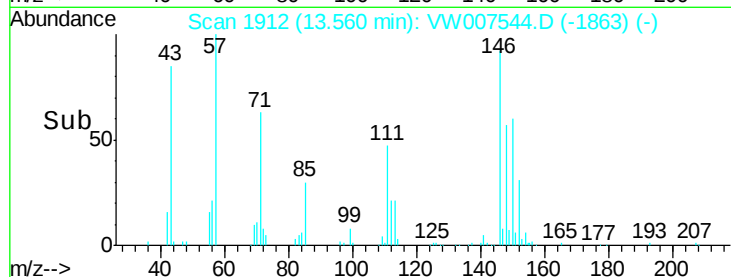
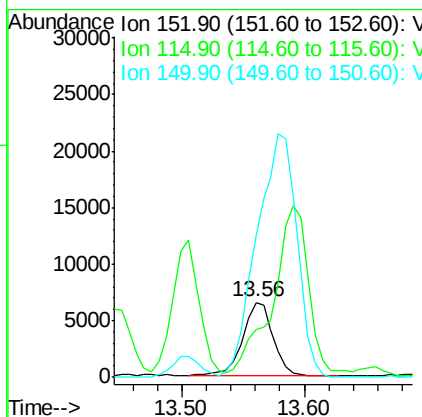
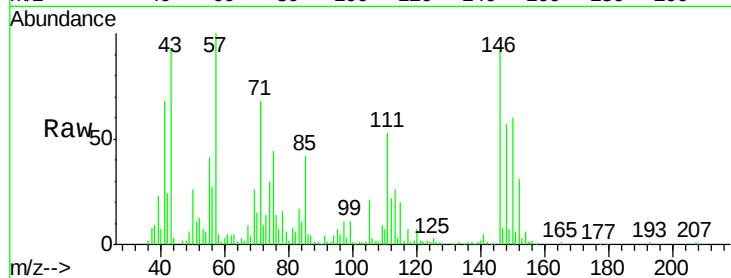
115 0.0 31.4 94.2#

150 0.0 0.0 358.4

Manual Integrations
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#73

Isopropylbenzene

Concen: 400.769 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

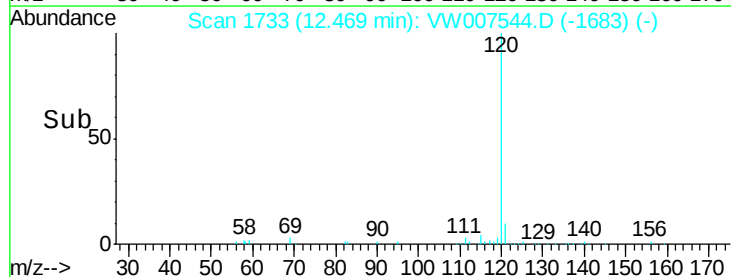
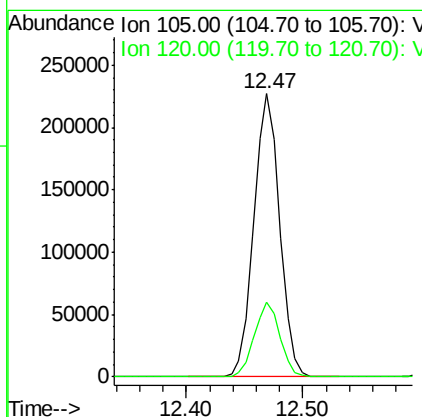
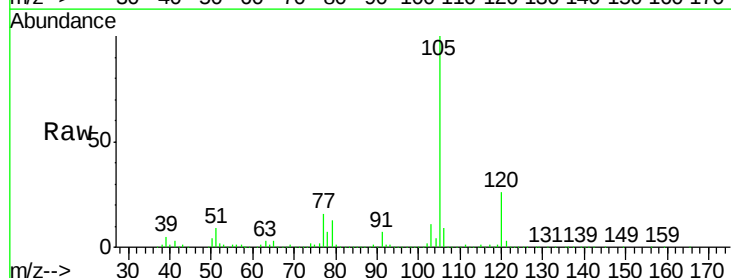
Lab File: VW007544.D

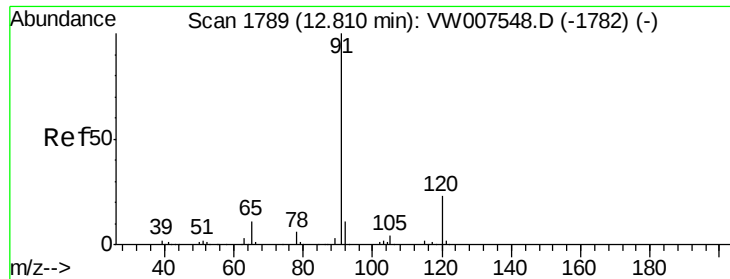
Acq: 14 Dec 2018 19:01

Tgt Ion:105 Resp: 351213
Ion Ratio Lower Upper

105 100

120 26.2 12.8 38.4





#78

n-propylbenzene

Concen: 590.955 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. 0.01 min

Lab File: VW007544.D

Acq: 14 Dec 2018 19:01

Instrument :

MSVOA_W

ClientSampleId :

P001-SD002-0612-01

Tgt Ion: 91 Resp: 582828

Ion Ratio Lower Upper

91 100

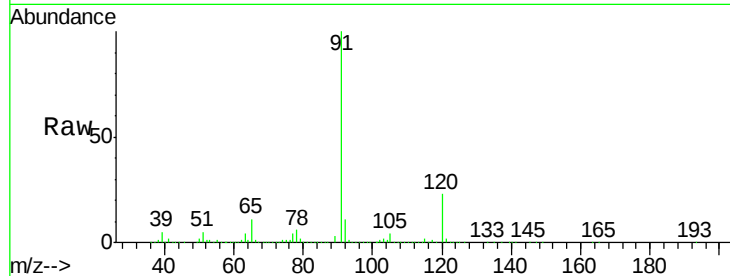
120 23.4 11.9 35.5

Manual Integrations

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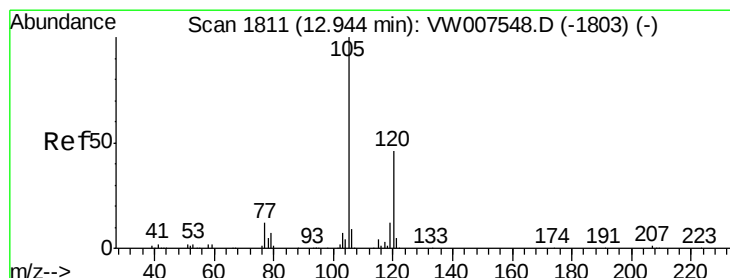
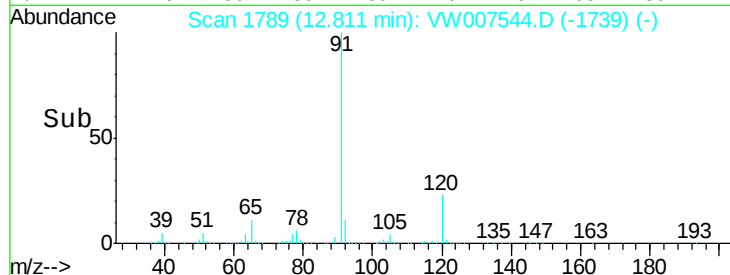
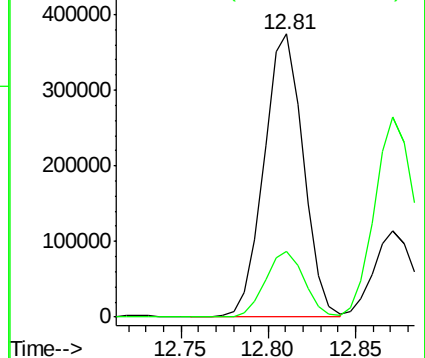
apatel

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Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V



#80

1,3,5-Trimethylbenzene

Concen: 848.916 ug/l

RT: 12.95 min Scan# 1812

Delta R.T. 0.01 min

Lab File: VW007544.D

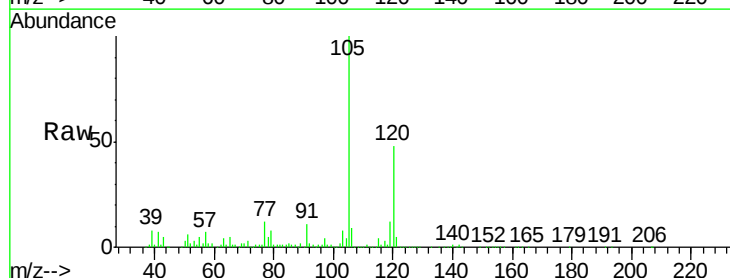
Acq: 14 Dec 2018 19:01

Tgt Ion: 105 Resp: 625098

Ion Ratio Lower Upper

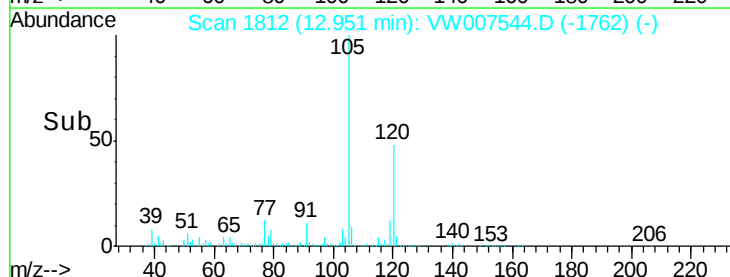
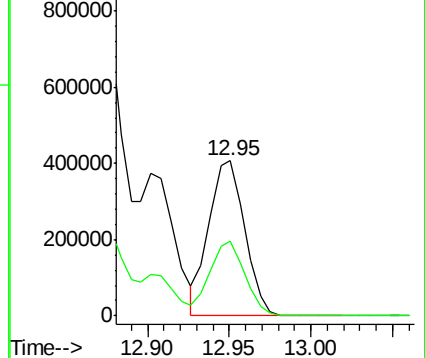
105 100

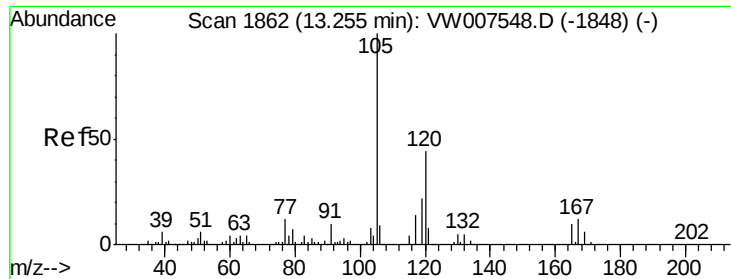
120 47.1 23.8 71.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





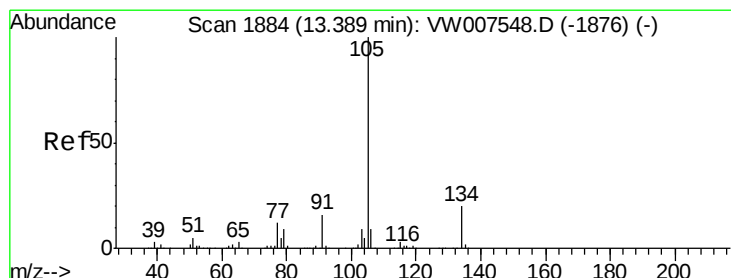
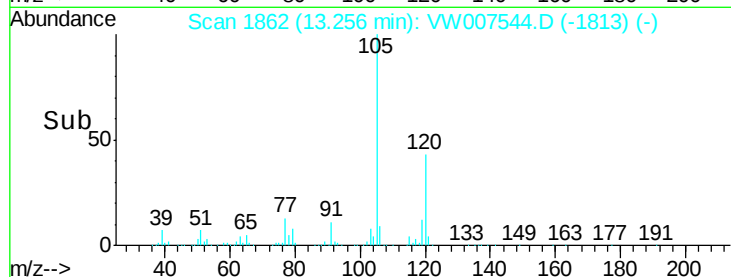
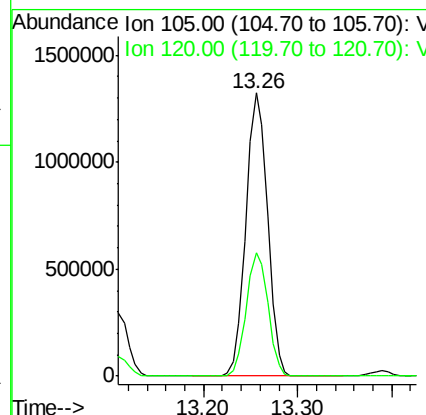
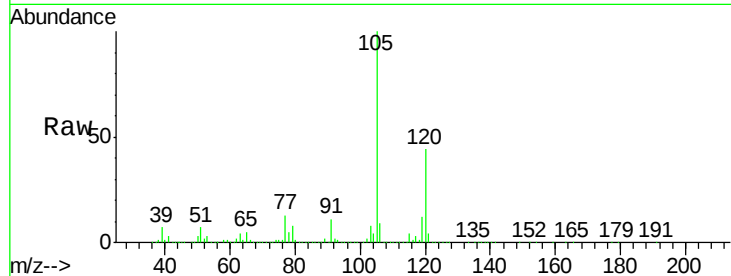
#84
1,2,4-Trimethylbenzene
Concen: 2780.171 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. 0.00 min
Lab File: VW007544.D
Acq: 14 Dec 2018 19:01

Instrument :
MSVOA_W
ClientSampleId :
P001-SD002-0612-01

Tgt Ion:105 Resp: 2106646
Ion Ratio Lower Upper
105 100
120 43.9 22.6 67.7

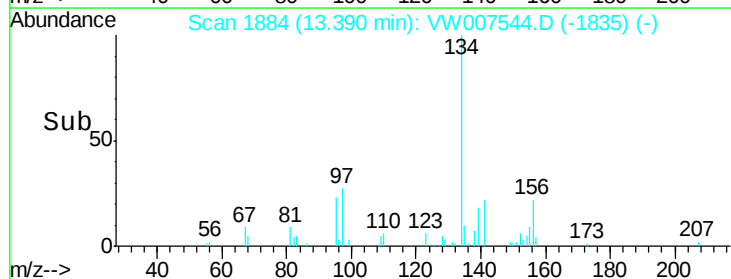
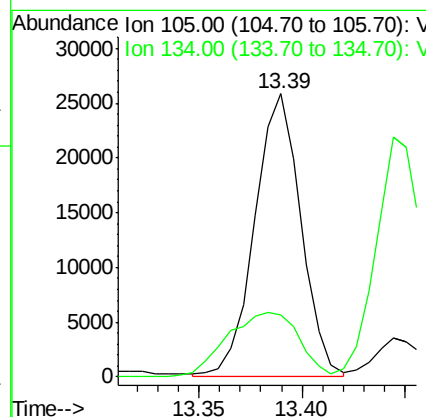
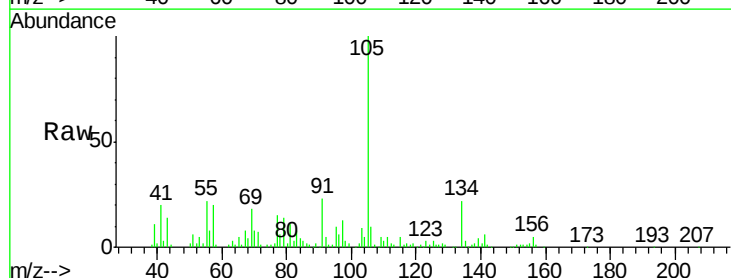
Manual Integrations
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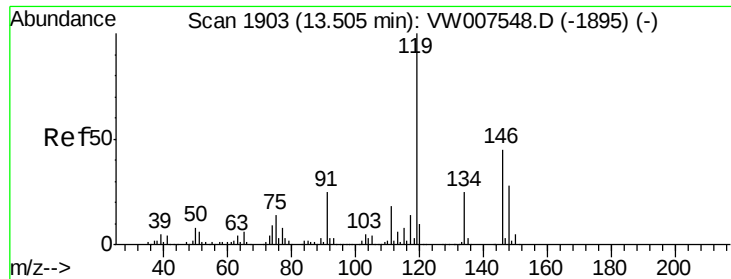
apatel
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#85
sec-Butylbenzene
Concen: 45.330 ug/l m
RT: 13.39 min Scan# 1884
Delta R.T. 0.00 min
Lab File: VW007544.D
Acq: 14 Dec 2018 19:01

Tgt Ion:105 Resp: 40150
Ion Ratio Lower Upper
105 100
134 0.0 11.1 33.3#





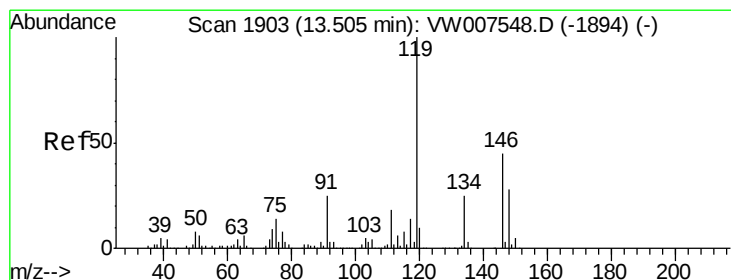
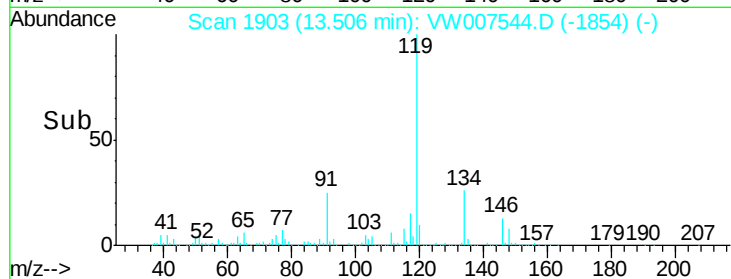
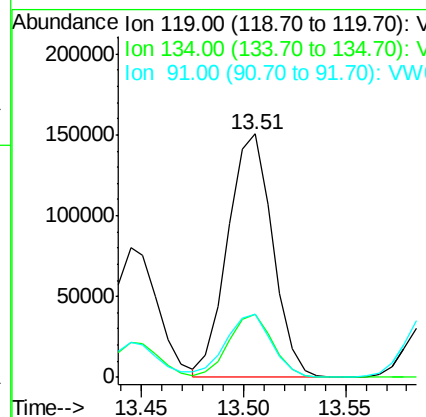
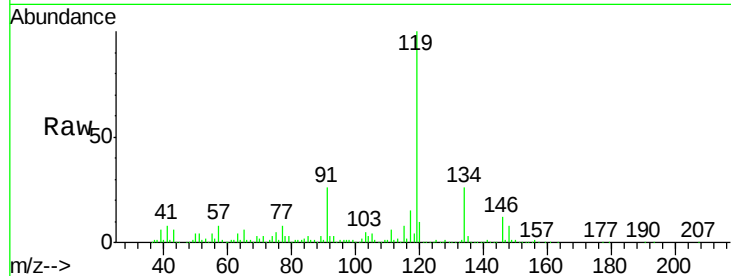
#86
p-Isopropyltoluene
Concen: 287.597 ug/l
RT: 13.51 min Scan# 1903
Delta R.T. 0.00 min
Lab File: VW007544.D
Acq: 14 Dec 2018 19:01

Instrument :
MSVOA_W
ClientSampleId :
P001-SD002-0612-01

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.4	12.9	38.7
91	26.0	11.9	35.9

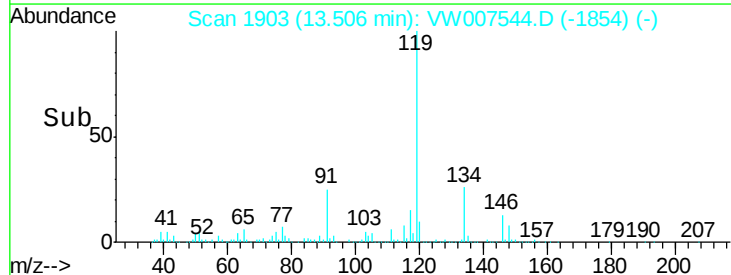
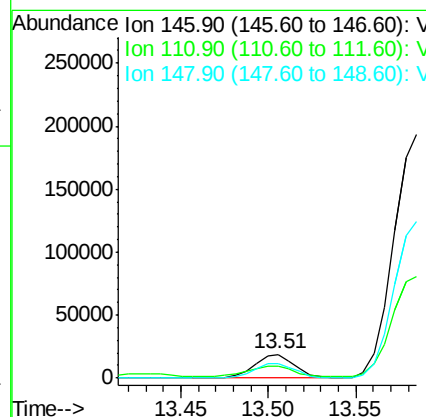
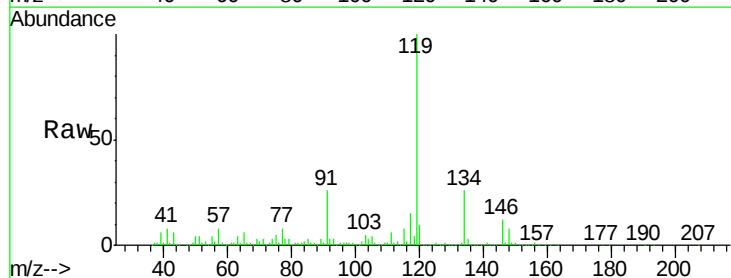
Manual Integrations
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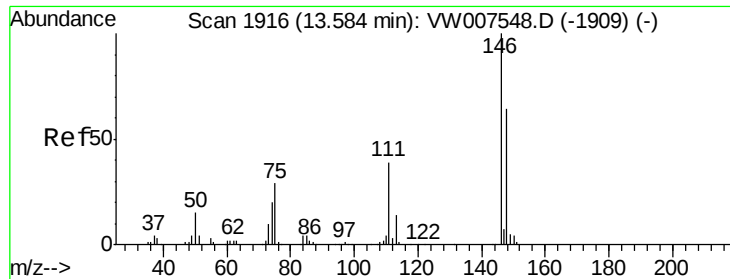
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#87
1,3-Dichlorobenzene
Concen: 77.170 ug/l
RT: 13.51 min Scan# 1903
Delta R.T. 0.00 min
Lab File: VW007544.D
Acq: 14 Dec 2018 19:01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	50.1	20.1	60.3
148	64.5	31.4	94.0





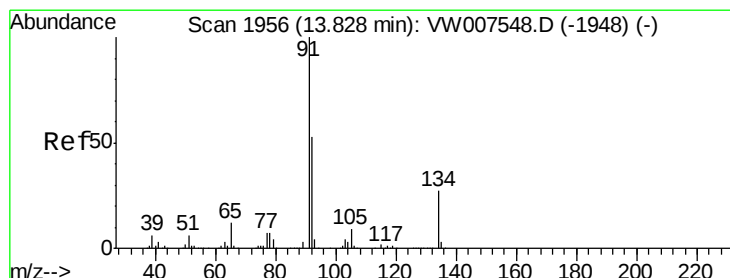
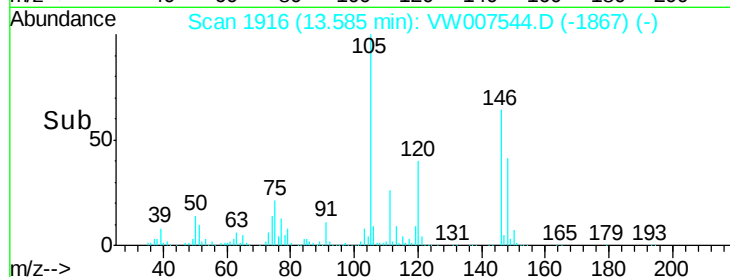
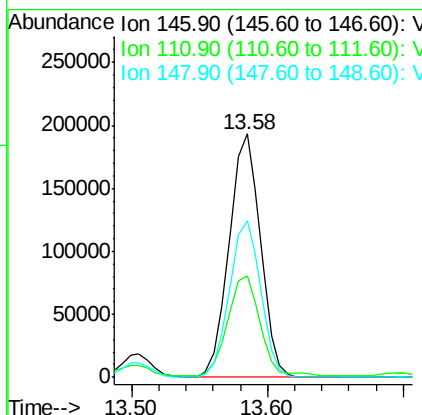
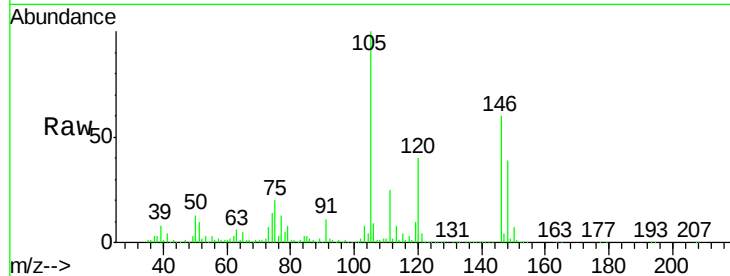
#88
 1,4-Dichlorobenzene
 Concen: 793.334 ug/l
 RT: 13.58 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VW007544.D
 Acq: 14 Dec 2018 19:01

Instrument :
 MSVOA_W
 ClientSampleId :
 P001-SD002-0612-01

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	308895		
111	43.0	20.3	61.0	
148	64.5	33.5	100.5	

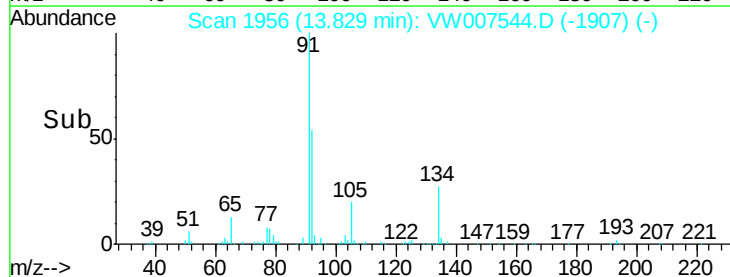
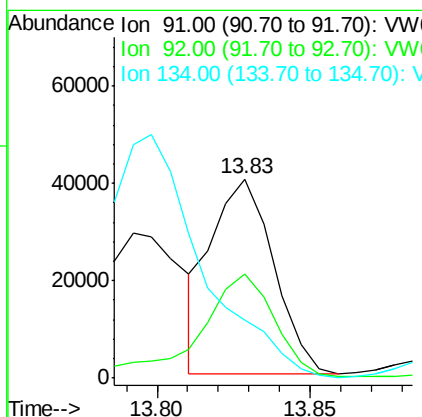
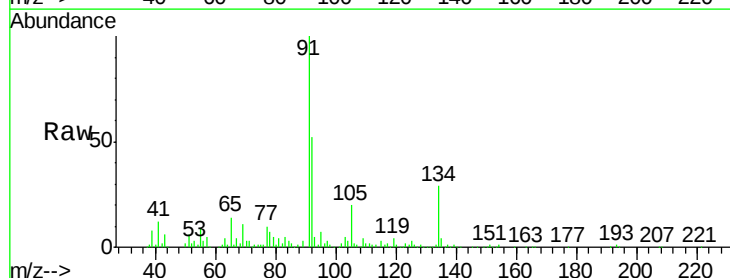
Manual Integrations
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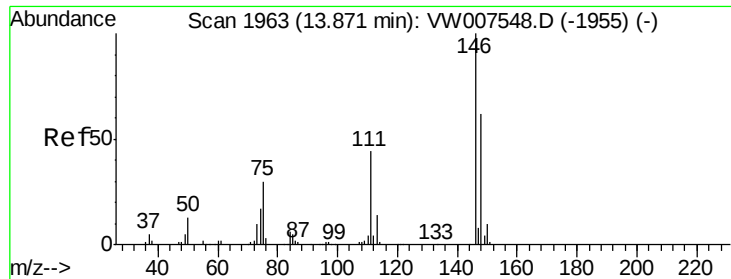
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#89
 n-Butylbenzene
 Concen: 76.339 ug/l
 RT: 13.83 min Scan# 1956
 Delta R.T. 0.00 min
 Lab File: VW007544.D
 Acq: 14 Dec 2018 19:01

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	56312		
92	63.5	25.7	77.1	
134	0.0	13.4	40.2	





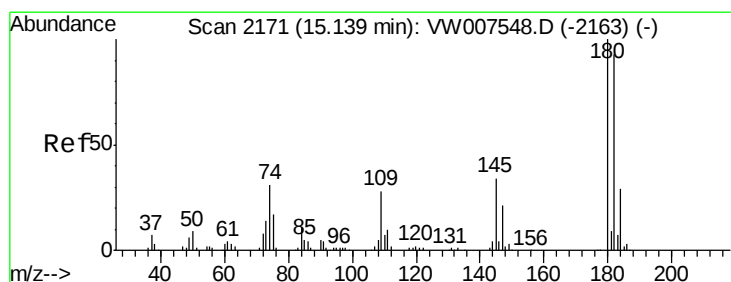
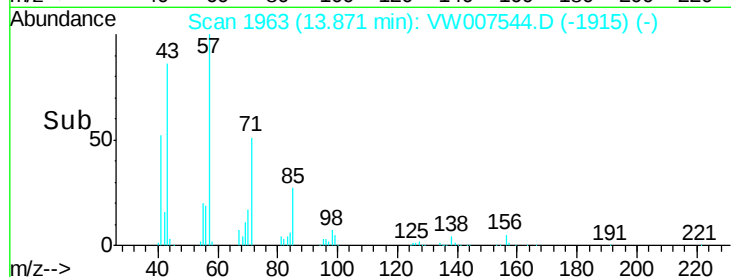
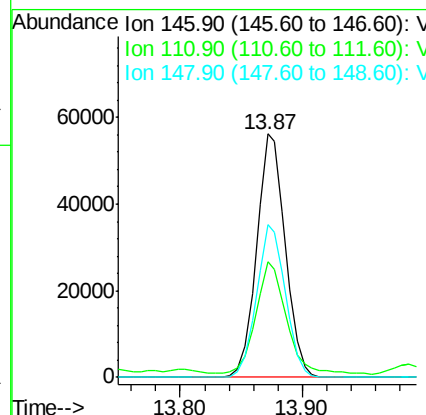
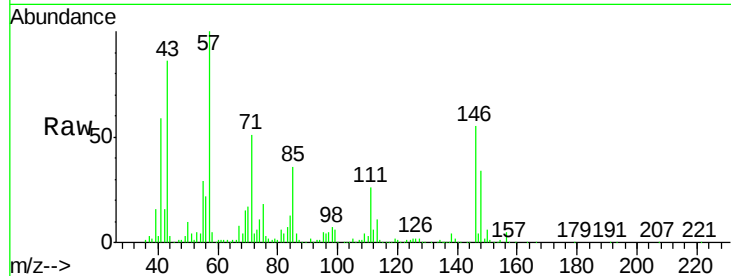
#91
 1,2-Dichlorobenzene
 Concen: 263.474 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.01 min
 Lab File: VW007544.D
 Acq: 14 Dec 2018 19:01

Instrument :
 MSVOA_W
 ClientSampleId :
 P001-SD002-0612-01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	49.1	22.4	67.2
148	63.0	32.4	97.2

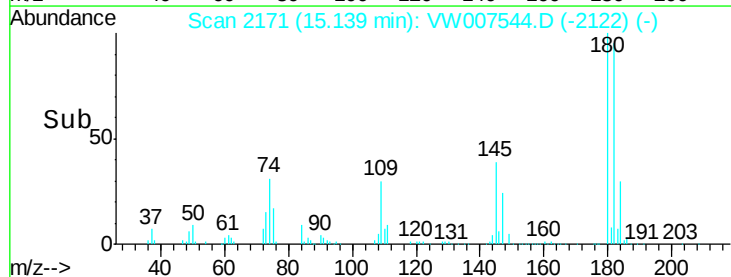
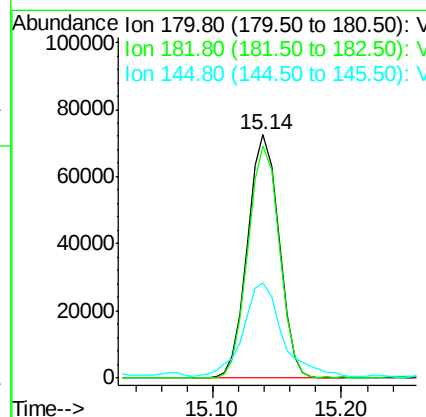
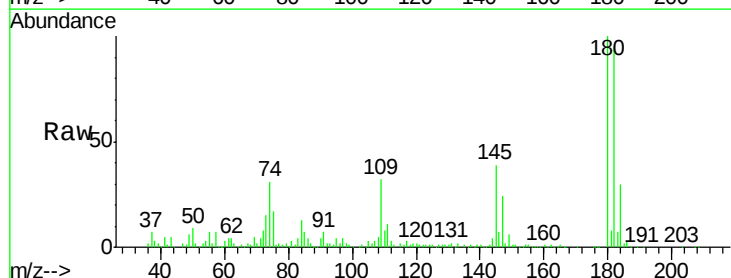
Manual Integrations
 APPROVED

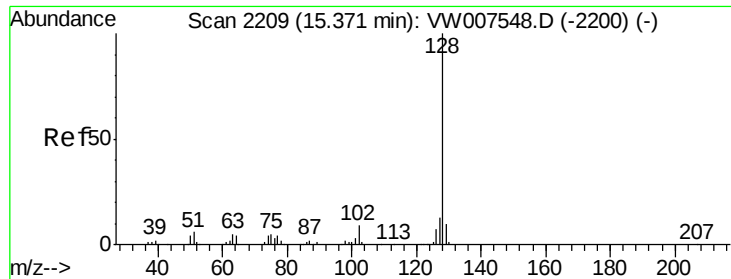
apatel
 12/17/2018 1:44:34 PM



#93
 1,2,4-Trichlorobenzene
 Concen: 512.581 ug/l
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW007544.D
 Acq: 14 Dec 2018 19:01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	49.9	149.6
145	50.1	17.8	53.4





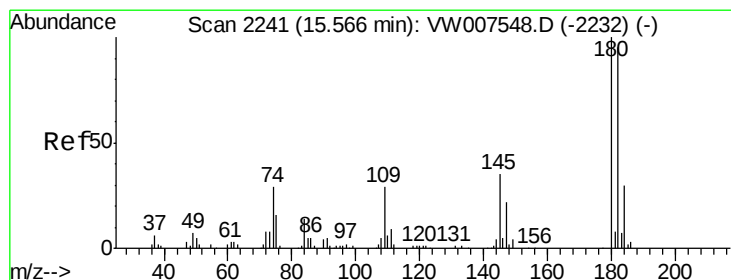
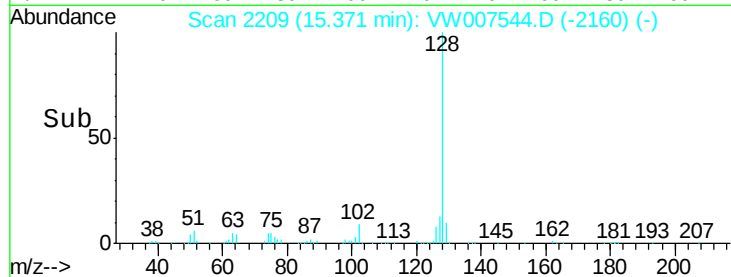
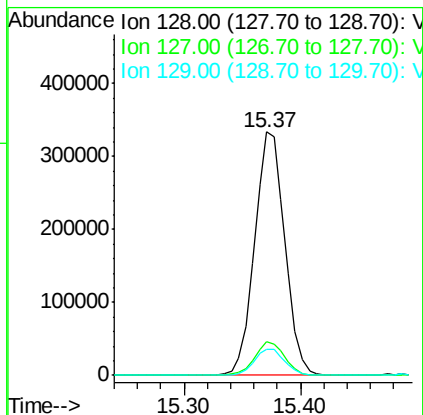
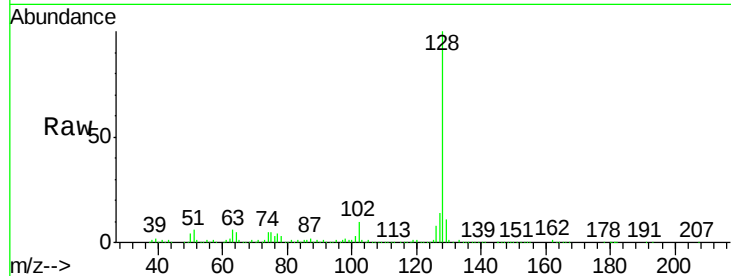
#95
Naphthalene
Concen: 1314.159 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW007544.D
Acq: 14 Dec 2018 19:01

Instrument :
MSVOA_W
ClientSampleId :
P001-SD002-0612-01

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.8	10.2	15.4
129	10.8	8.3	12.5

Manual Integrations
APPROVED

apatel
12/17/2018 1:44:34 PM



#96
1,2,3-Trichlorobenzene
Concen: 162.450 ug/l
RT: 15.57 min Scan# 2241
Delta R.T. 0.01 min
Lab File: VW007544.D
Acq: 14 Dec 2018 19:01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.1	45.6	136.7
145	74.7	17.5	52.5

