

Data File : VW007165.D
Acq On : 03 Dec 2018 16:22
Operator : SY/AP
Sample : J6171-10
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
F9Y14

Quant Time: Dec 04 03:18:19 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM113018S.M
Quant Title : VOC Analysis
QLast Update : Tue Dec 04 03:14:20 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	174944	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	151433	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.57	152	72703	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	26003	17.47	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	69.88%
7) Chloroethane-d5	2.89	69	20482	19.19	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	76.76%
10) 1,1-Dichloroethene-d2	4.02	63	54199	13.98	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	55.92%
20) 2-Butanone-d5	7.08	46	19808	32.87	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	65.74%
24) Chloroform-d	7.65	84	64836	17.69	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	70.76%
26) 1,2-Dichloroethane-d4	8.31	65	39364	18.56	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	74.24%
29) Benzene-d6	8.28	84	165655	23.02	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	92.08%
33) 1,2-Dichloropropane-d6	9.28	67	56406	27.36	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	109.44%
37) Toluene-d8	10.32	98	277997	36.53	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	146.12%#
38) trans-1,3-Dichloropropene-	10.58	79	21875	21.71	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	86.84%
39) 2-Hexanone-d5	10.93	63	19243	39.83	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	79.66%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	38589	20.55	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	82.20%
61) 1,2-Dichlorobenzene-d4	13.86	152	58416	21.41	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	85.64%

Target Compounds

						Qvalue
13) Acetone	4.11	43	11257	26.659	ug/L	63
15) Methyl Acetate	4.90	43	87502	83.572	ug/L #	51
21) 2-Butanone	7.17	43	5426	8.371	ug/L #	51
25) Chloroform	7.68	83	9895	2.561	ug/L #	1
27) 1,2-Dichloroethane	8.45	62	4363	1.702	ug/L #	1
30) Cyclohexane	7.96	56	912748	276.531	ug/L	99
36) Methylcyclohexane	9.34	83	2999808	759.351	ug/L	89
40) 1,2-Dichloropropane	9.34	63	38511	20.460	ug/L #	1
41) Bromodichloromethane	9.61	83	35380	14.357	ug/L #	38
43) 4-Methyl-2-pentanone	10.21	43	7267	5.218	ug/L #	49
44) Toluene	10.37	91	2551	0.271	ug/L #	32
46) 1,1,2-Trichloroethane	10.76	97	295521	199.369	ug/L #	21
49) 2-Hexanone	10.94	43	263409	279.384	ug/L #	24
51) 1,2-Dibromoethane	11.24	107	433	0.288	ug/L #	1
57) Isopropylbenzene	12.47	105	273679	24.952	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.69	83	31758	16.860	ug/L #	42
59) 1,2,3-Trichloropropane	13.56	75	7910	5.373	ug/L	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW120318\
Quantitation Report (Not Reviewed)

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Quant Title : VOC Analysis
QLast Update : Tue Dec 04 03:14:20 2018
Response via : Initial Calibration

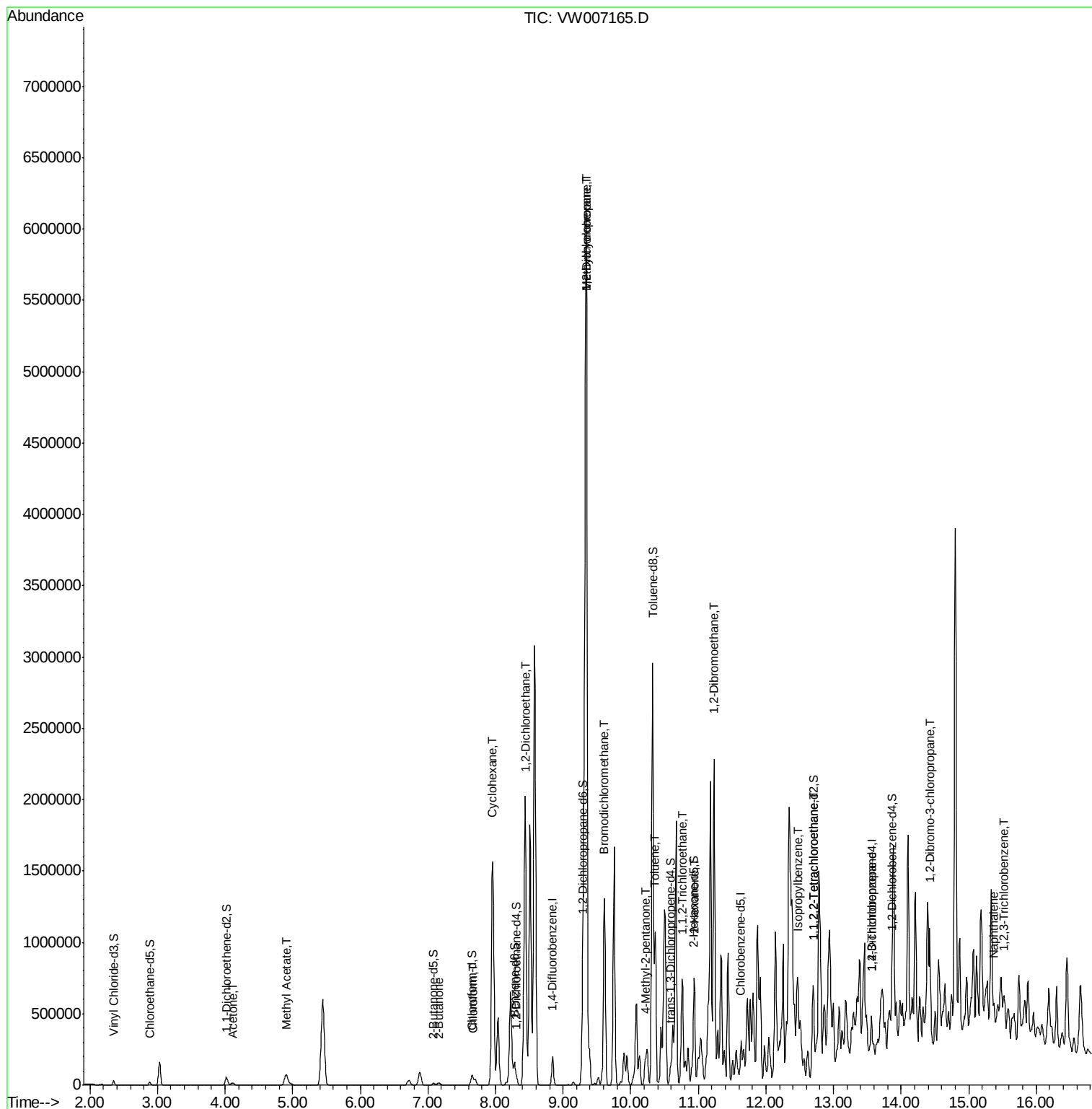
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) 1,2-Dibromo-3-chloropropan	14.43	75	4095	11.535	ug/L #	7
69) Naphthalene	15.38	128	222894	34.272	ug/L	96
70) 1,2,3-Trichlorobenzene	15.53	180	3713	1.393	ug/L #	29

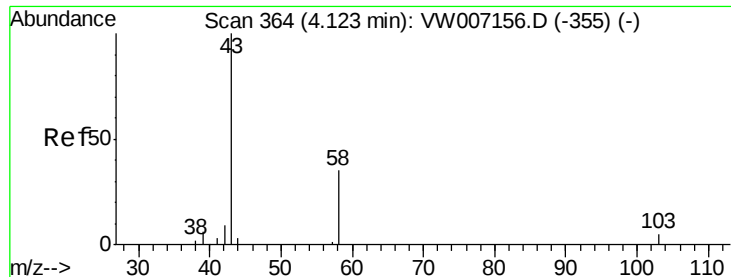
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 26.659 ug/L

RT: 4.11 min Scan# 362

Delta R.T. -0.01 min

Lab File: VW007165.D

Acq: 03 Dec 2018 16:22

Instrument :

MSVOA_W

ClientSampleId :

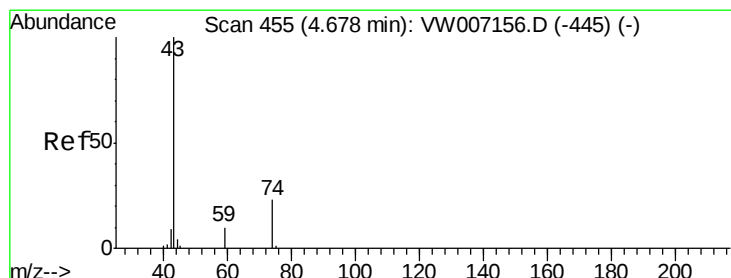
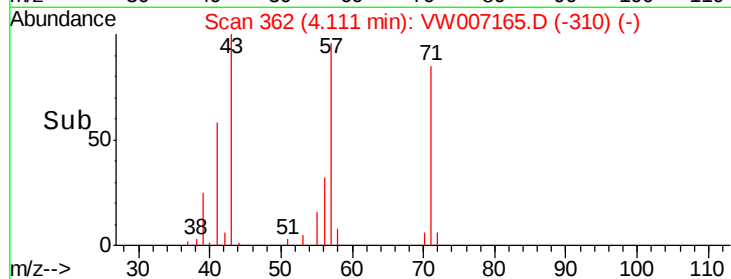
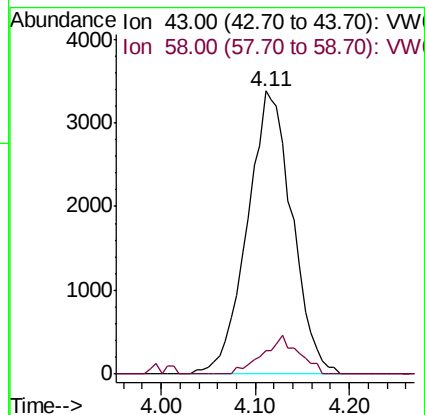
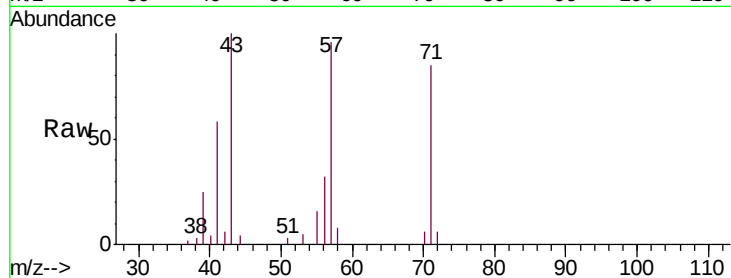
F9Y14

Tgt Ion: 43 Resp: 11257

Ion Ratio Lower Upper

43 100

58 10.9 0.0 62.4



#15

Methyl Acetate

Concen: 83.572 ug/L

RT: 4.90 min Scan# 492

Delta R.T. 0.23 min

Lab File: VW007165.D

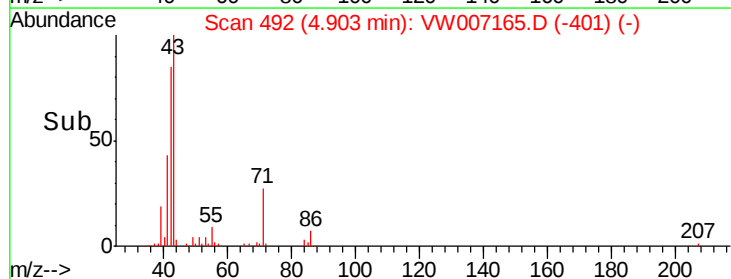
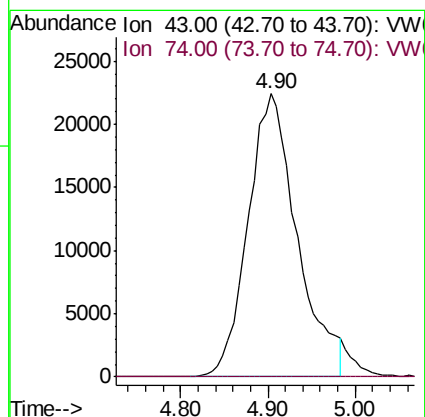
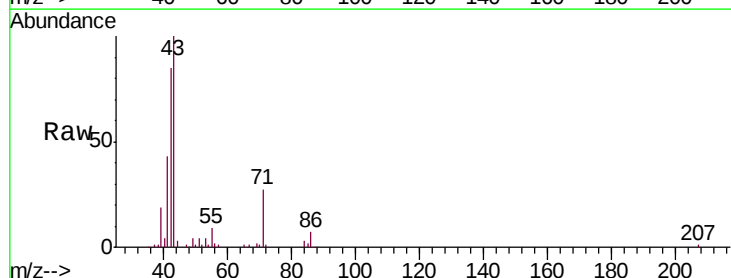
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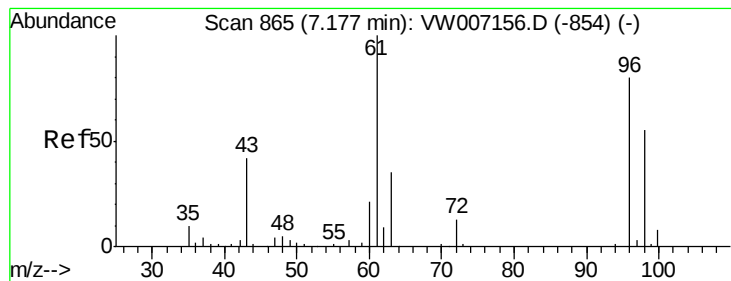
Tgt Ion: 43 Resp: 87502

Ion Ratio Lower Upper

43 100

74 0.0 19.3 28.9#





#21

2-Butanone

Concen: 8.371 ug/L

RT: 7.17 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW007165.D

Acq: 03 Dec 2018 16:22

Instrument :

MSVOA_W

ClientSampleId :

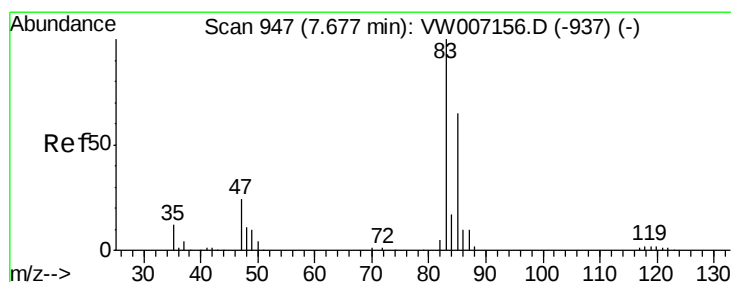
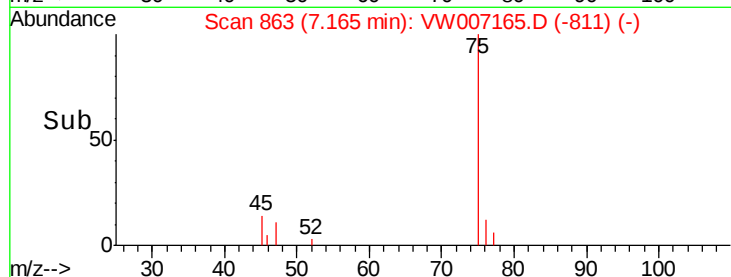
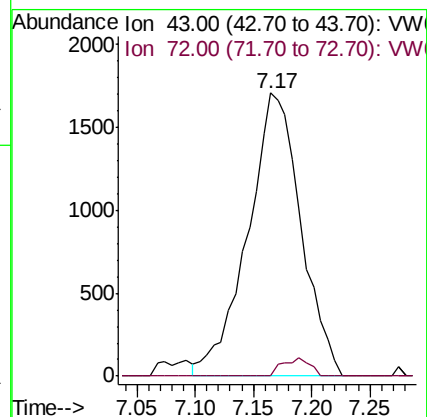
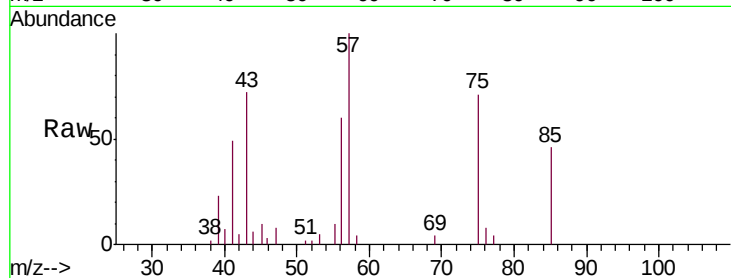
F9Y14

Tgt Ion: 43 Resp: 5426

Ion Ratio Lower Upper

43 100

72 1.5 13.5 40.5#



#25

Chloroform

Concen: 2.561 ug/L

RT: 7.68 min Scan# 947

Delta R.T. -0.00 min

Lab File: VW007165.D

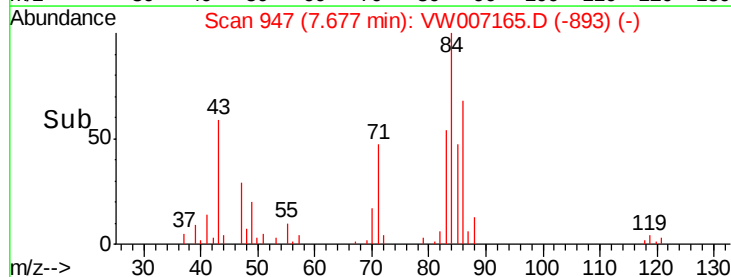
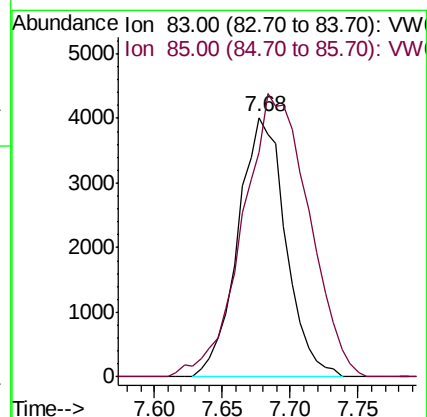
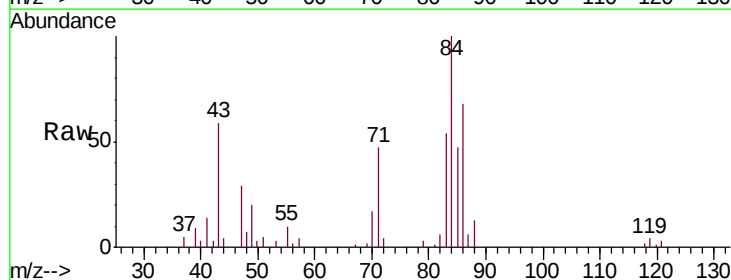
Acq: 03 Dec 2018 16:22

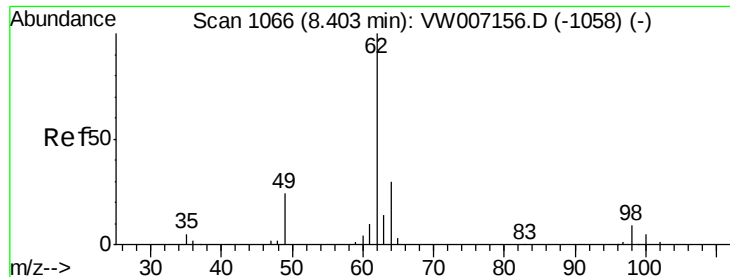
Tgt Ion: 83 Resp: 9895

Ion Ratio Lower Upper

83 100

85 150.1 46.1 85.7#

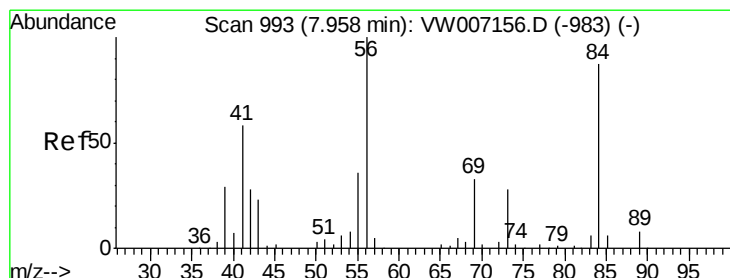
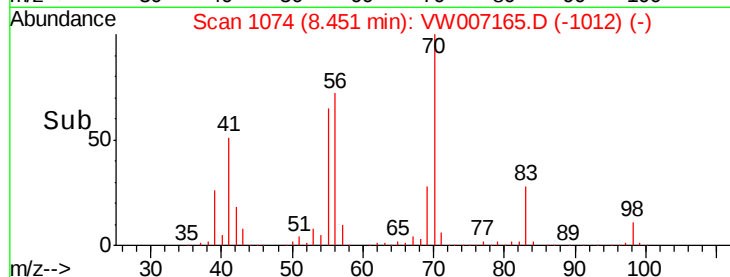
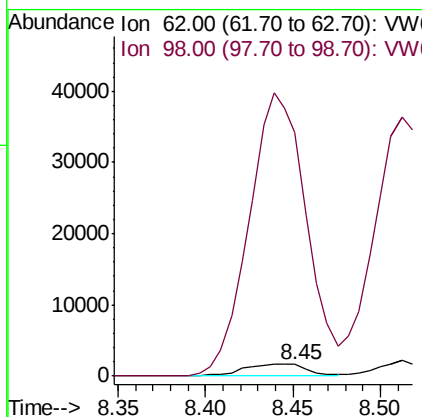
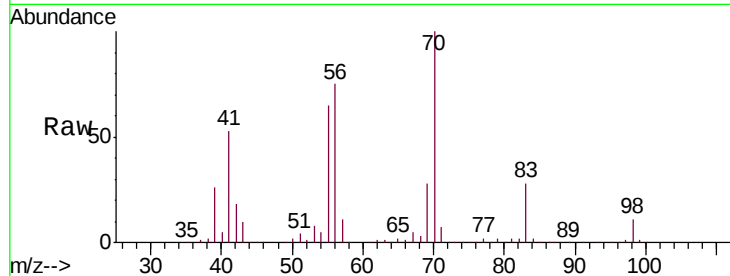




#27
 1,2-Dichloroethane
 Concen: 1.702 ug/L
 RT: 8.45 min Scan# 1074
 Delta R.T. 0.05 min
 Lab File: VW007165.D
 Acq: 03 Dec 2018 16:22

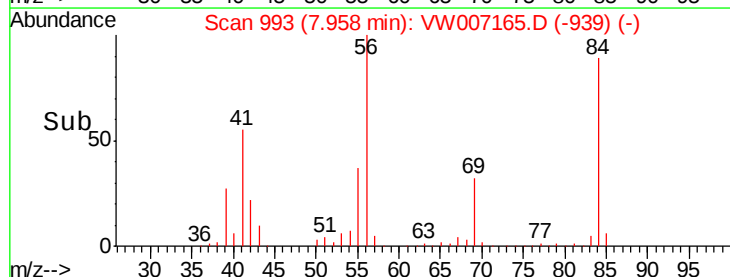
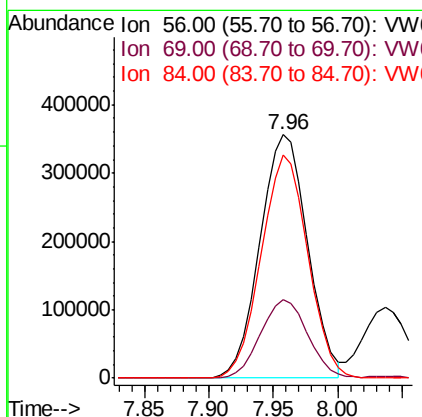
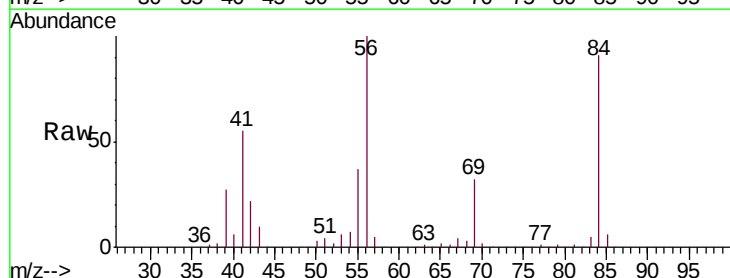
Instrument :
 MSVOA_W
 ClientSampleId :
 F9Y14

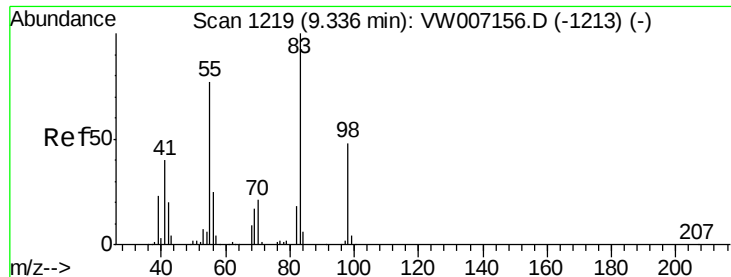
Tgt Ion: 62 Resp: 4363
 Ion Ratio Lower Upper
 62 100
 98 2043.9 7.4 11.2#



#30
 Cyclohexane
 Concen: 276.531 ug/L
 RT: 7.96 min Scan# 993
 Delta R.T. -0.00 min
 Lab File: VW007165.D
 Acq: 03 Dec 2018 16:22

Tgt Ion: 56 Resp: 912748
 Ion Ratio Lower Upper
 56 100
 69 32.1 26.1 39.1
 84 90.1 73.0 109.4

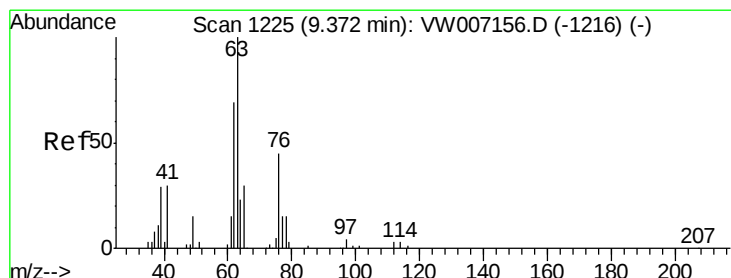
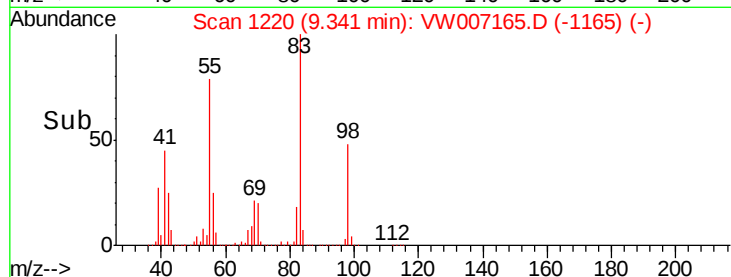
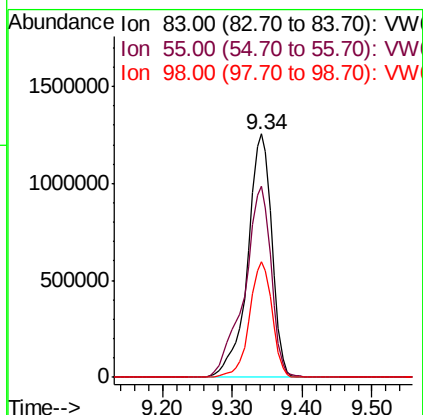
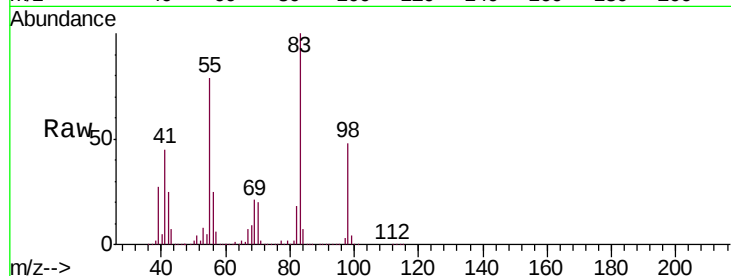




#36
Methylcyclohexane
Concen: 759.351 ug/L
RT: 9.34 min Scan# 1220
Delta R.T. 0.01 min
Lab File: VW007165.D
Acq: 03 Dec 2018 16:22

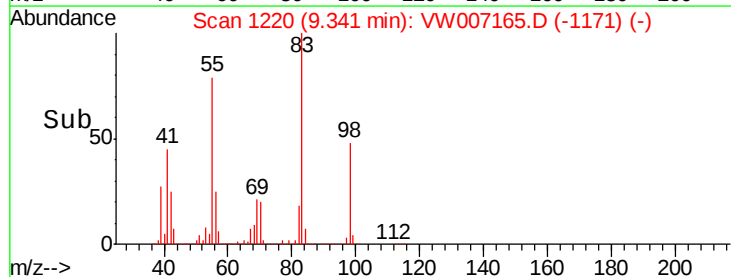
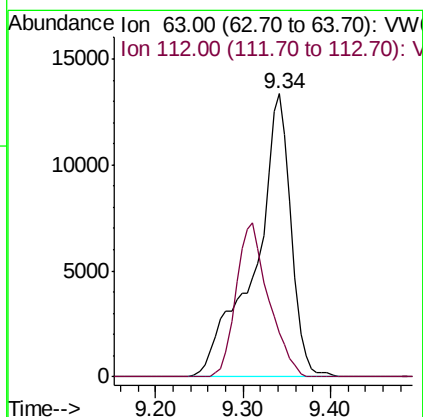
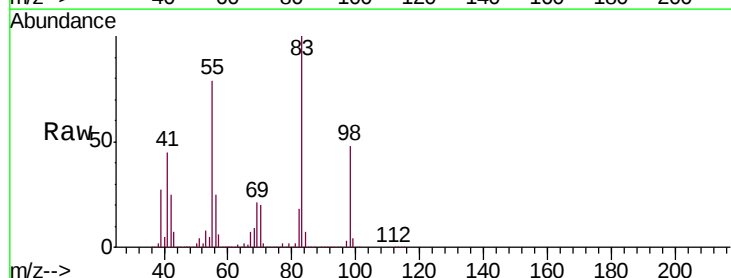
Instrument :
MSVOA_W
ClientSampleId :
F9Y14

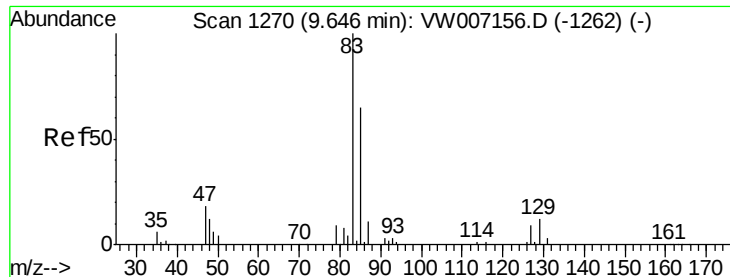
Tgt Ion: 83 Resp: 2999808
Ion Ratio Lower Upper
83 100
55 87.1 60.2 90.4
98 44.4 38.8 58.2



#40
1,2-Dichloropropane
Concen: 20.460 ug/L
RT: 9.34 min Scan# 1220
Delta R.T. -0.03 min
Lab File: VW007165.D
Acq: 03 Dec 2018 16:22

Tgt Ion: 63 Resp: 38511
Ion Ratio Lower Upper
63 100
112 48.7 3.4 5.2#





#41

Bromodichloromethane

Concen: 14.357 ug/L

RT: 9.61 min Scan# 1264

Delta R.T. -0.04 min

Lab File: VW007165.D

Acq: 03 Dec 2018 16:22

Instrument :

MSVOA_W

ClientSampleId :

F9Y14

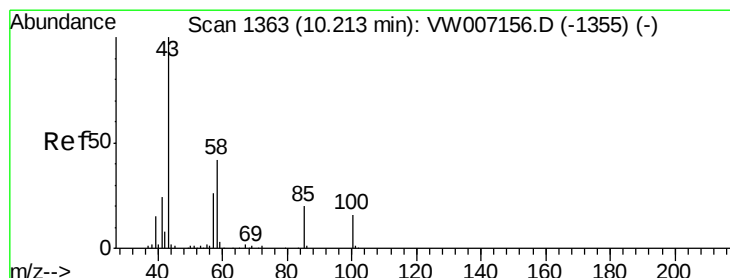
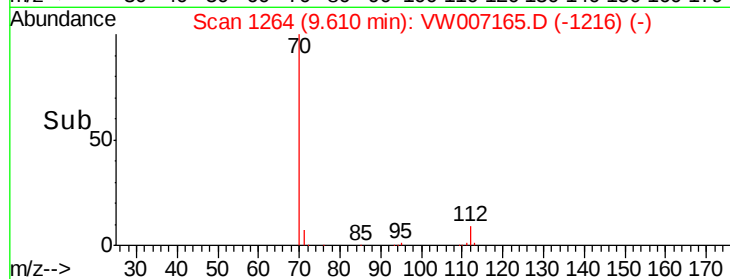
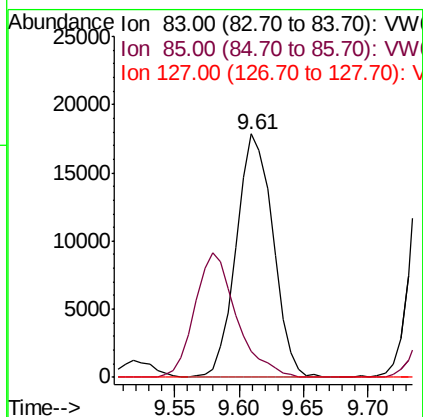
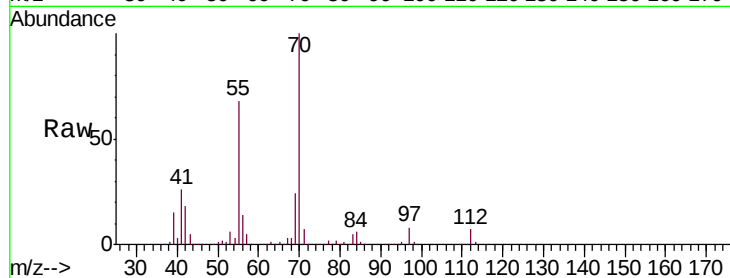
Tgt Ion: 83 Resp: 35380

Ion Ratio Lower Upper

83 100

85 10.8 43.9 81.5#

127 0.0 7.1 10.7#



#43

4-Methyl-2-pentanone

Concen: 5.218 ug/L

RT: 10.21 min Scan# 1363

Delta R.T. -0.00 min

Lab File: VW007165.D

Acq: 03 Dec 2018 16:22

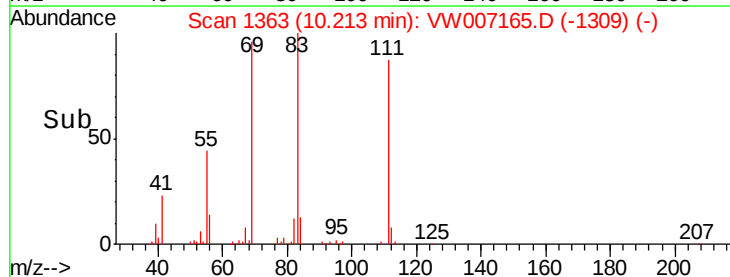
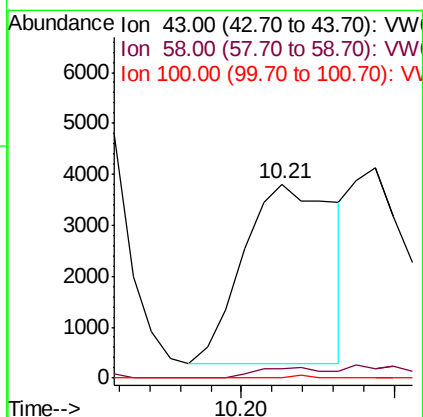
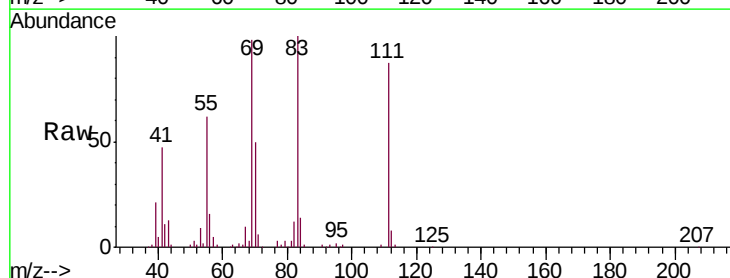
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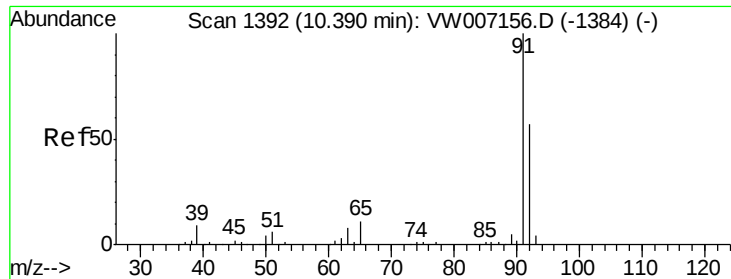
Ion Ratio Lower Upper

43 100

58 4.7 31.4 47.2#

100 0.0 13.1 19.7#





#44

Toluene

Concen: 0.271 ug/L

RT: 10.37 min Scan# 1388

Delta R.T. -0.02 min

Lab File: VW007165.D

Acq: 03 Dec 2018 16:22

Instrument :

MSVOA_W

ClientSampled :

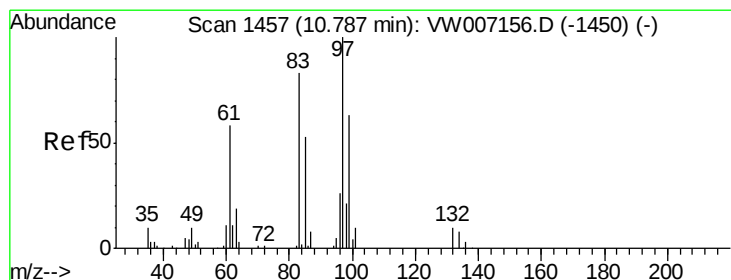
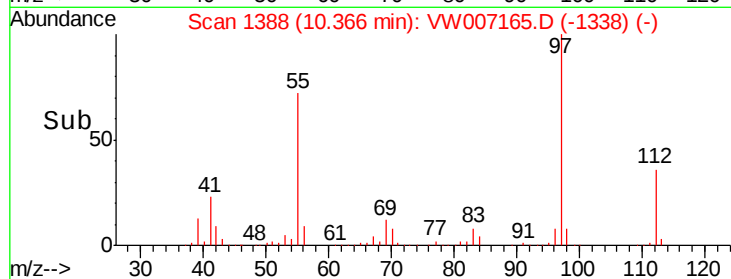
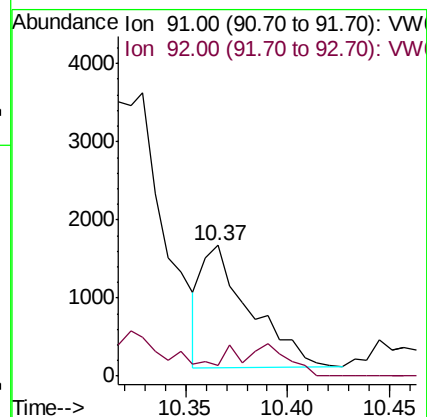
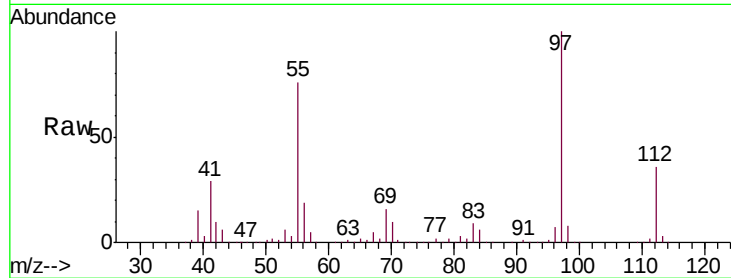
F9Y14

Tgt Ion: 91 Resp: 2551

Ion Ratio Lower Upper

91 100

92 8.3 41.2 76.6#



#46

1,1,2-Trichloroethane

Concen: 199.369 ug/L

RT: 10.76 min Scan# 1453

Delta R.T. -0.02 min

Lab File: VW007165.D

Acq: 03 Dec 2018 16:22

Tgt Ion: 97 Resp: 295521

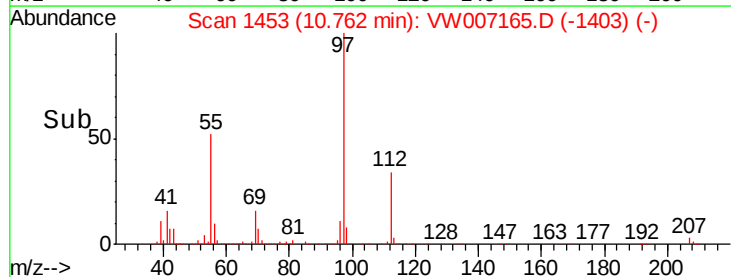
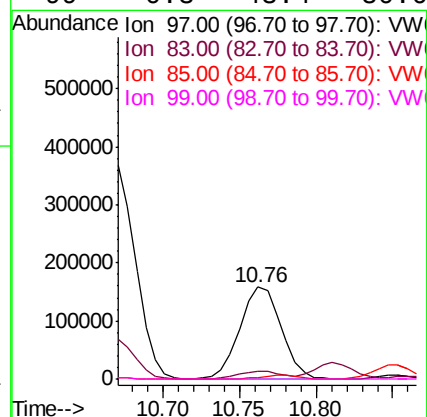
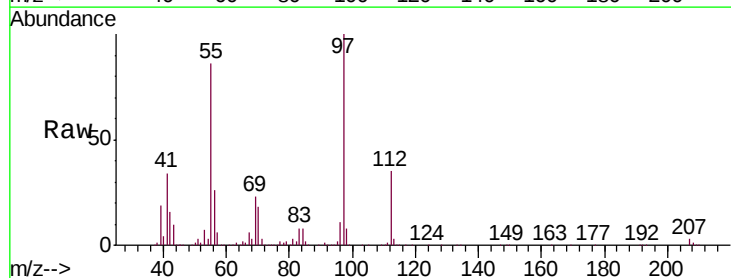
Ion Ratio Lower Upper

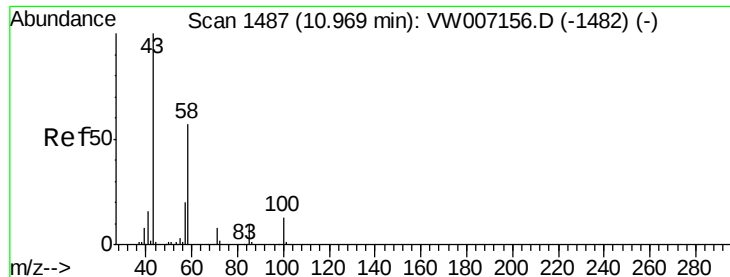
97 100

83 8.4 57.1 106.1#

85 2.0 38.6 71.8#

99 0.3 43.4 80.6#

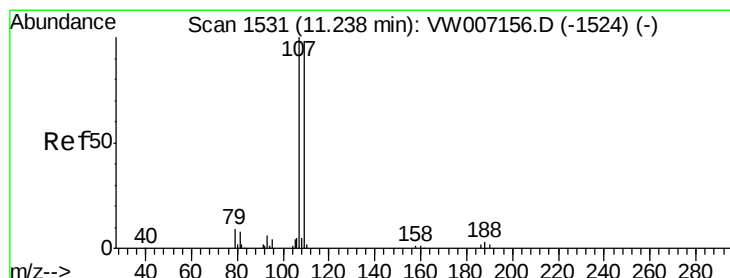
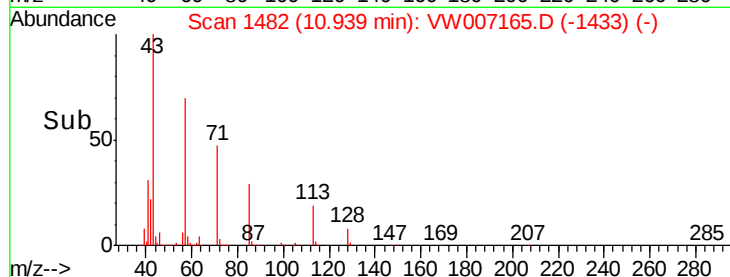
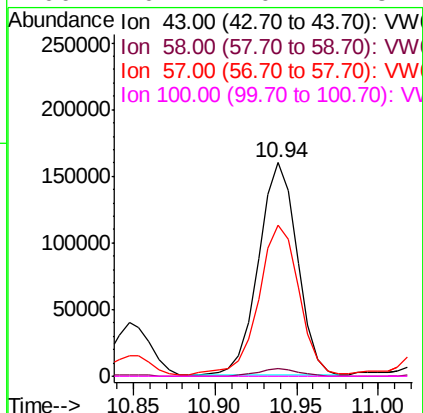
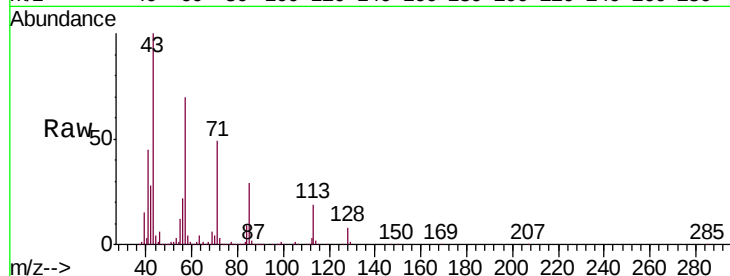




#49
2-Hexanone
Concen: 279.384 ug/L
RT: 10.94 min Scan# 1482
Delta R.T. -0.03 min
Lab File: VW007165.D
Acq: 03 Dec 2018 16:22

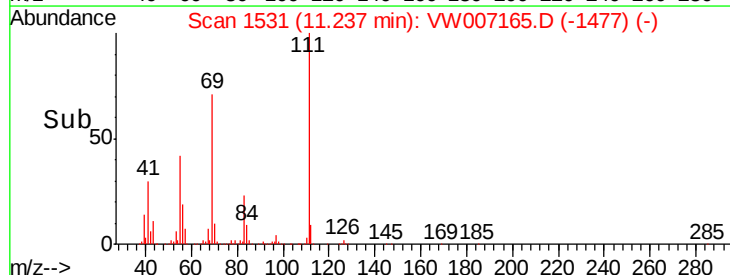
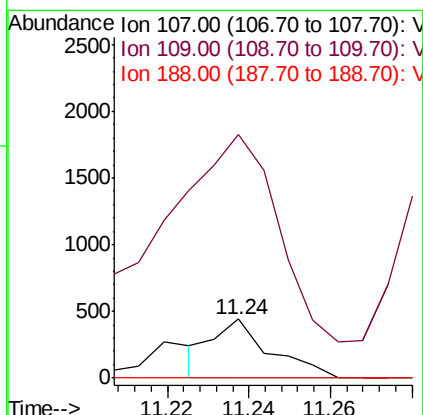
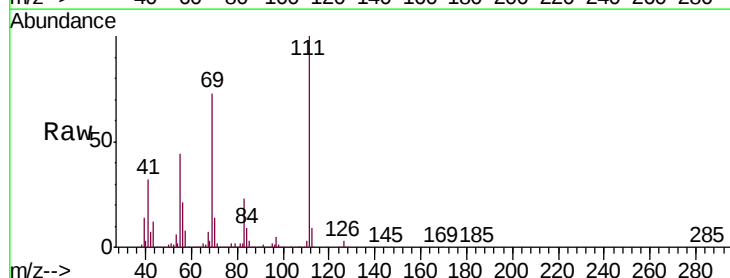
Instrument :
MSVOA_W
ClientSampled :
F9Y14

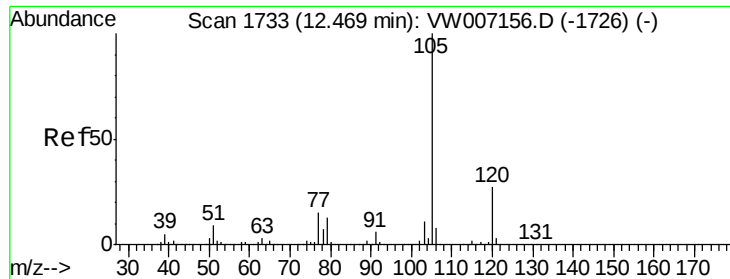
Tgt Ion: 43 Resp: 263409
Ion Ratio Lower Upper
43 100
58 3.5 44.2 66.2#
57 73.3 16.3 24.5#
100 0.1 10.1 15.1#



#51
1,2-Dibromoethane
Concen: 0.288 ug/L
RT: 11.24 min Scan# 1531
Delta R.T. -0.00 min
Lab File: VW007165.D
Acq: 03 Dec 2018 16:22

Tgt Ion: 107 Resp: 433
Ion Ratio Lower Upper
107 100
109 413.8 66.0 122.6#
188 0.0 3.6 5.4#





#57

Isopropylbenzene

Concen: 24.952 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VW007165.D

Acq: 03 Dec 2018 16:22

Instrument :

MSVOA_W

ClientSampleId :

F9Y14

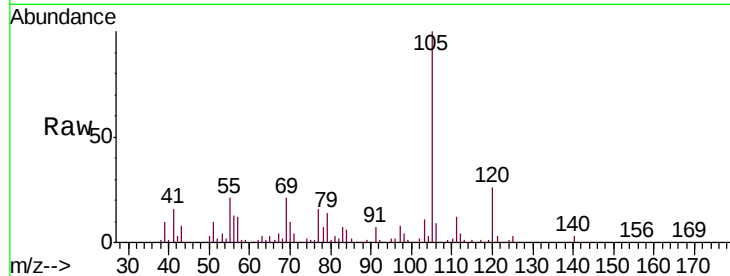
Tgt Ion: 105 Resp: 273679

Ion Ratio Lower Upper

105 100

120 25.9 20.8 31.2

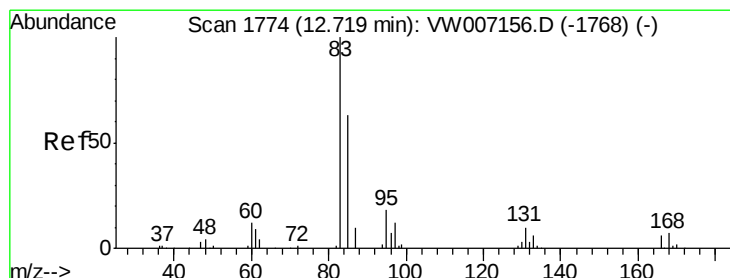
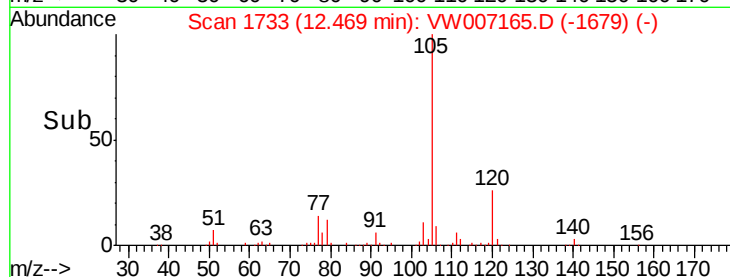
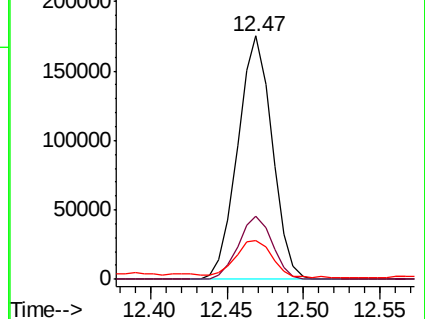
77 15.6 12.0 18.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 16.860 ug/L

RT: 12.69 min Scan# 1770

Delta R.T. -0.02 min

Lab File: VW007165.D

Acq: 03 Dec 2018 16:22

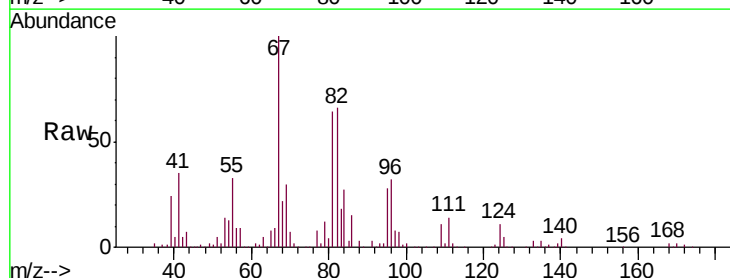
Tgt Ion: 83 Resp: 31758

Ion Ratio Lower Upper

83 100

85 16.8 47.8 88.8#

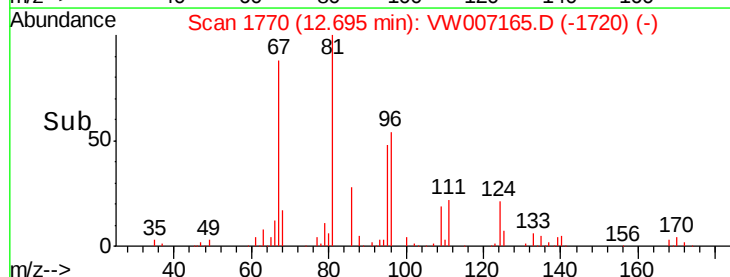
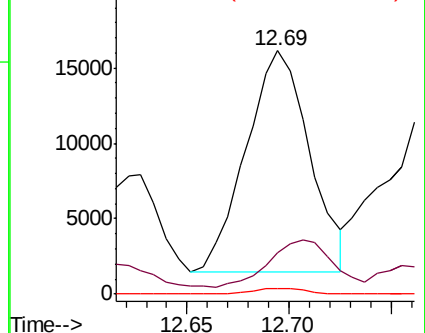
131 2.0 8.2 12.2#

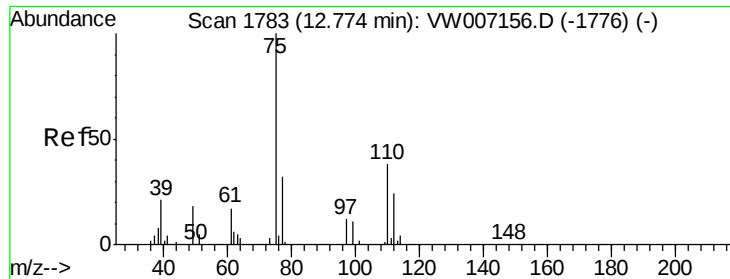


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V

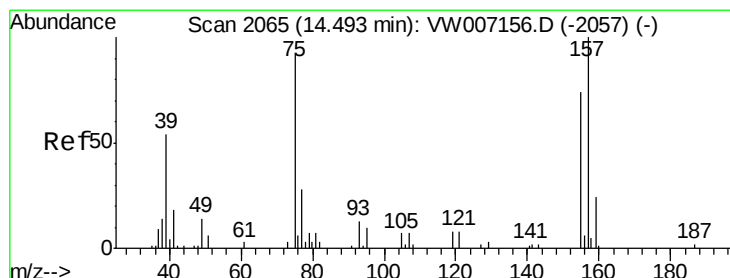
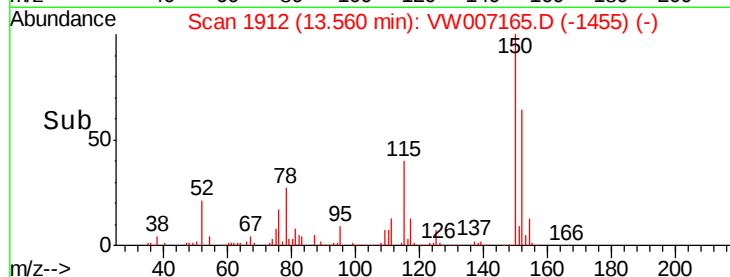
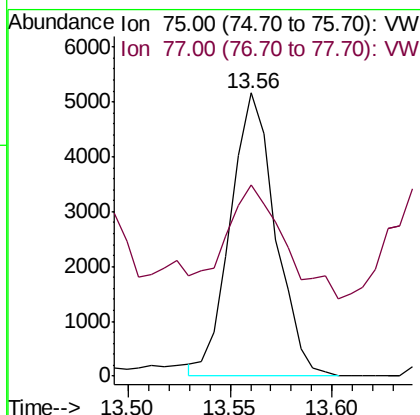
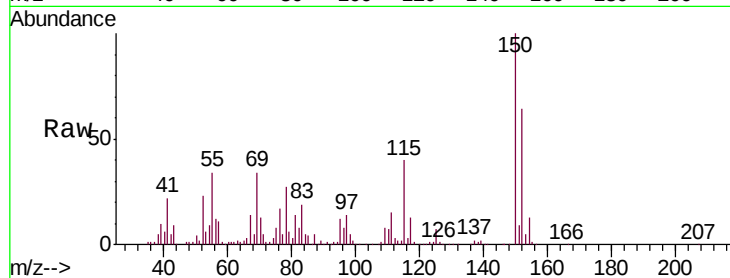




#59
 1,2,3-Trichloropropane
 Concen: 5.373 ug/L
 RT: 13.56 min Scan# 1912
 Delta R.T. 0.79 min
 Lab File: VW007165.D
 Acq: 03 Dec 2018 16:22

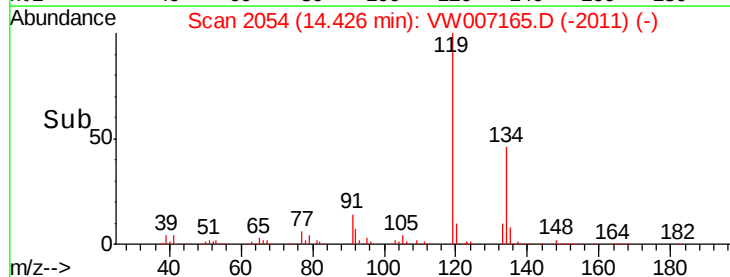
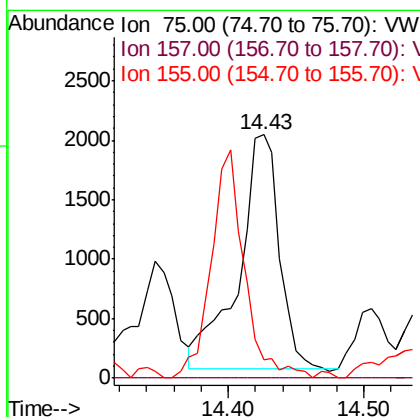
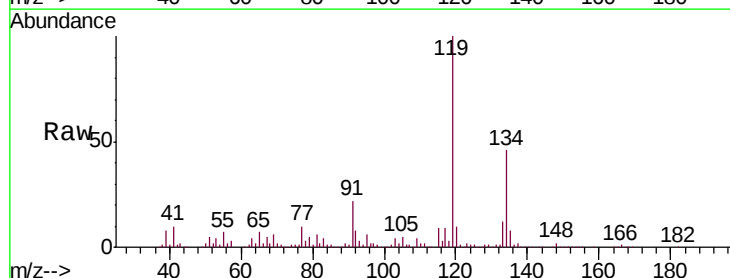
Instrument :
 MSVOA_W
 ClientSampled :
 F9Y14

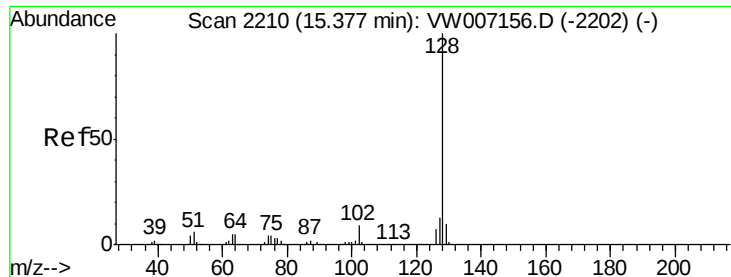
Tgt Ion: 75 Resp: 7910
 Ion Ratio Lower Upper
 75 100
 77 33.0 25.8 38.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 11.535 ug/L
 RT: 14.43 min Scan# 2054
 Delta R.T. -0.07 min
 Lab File: VW007165.D
 Acq: 03 Dec 2018 16:22

Tgt Ion: 75 Resp: 4095
 Ion Ratio Lower Upper
 75 100
 157 0.0 86.4 129.6#
 155 7.6 58.3 87.5#





#69

Naphthalene

Concen: 34.272 ug/L

RT: 15.38 min Scan# 2210

Delta R.T. -0.00 min

Lab File: VW007165.D

Acq: 03 Dec 2018 16:22

Instrument :

MSVOA_W

ClientSampleId :

F9Y14

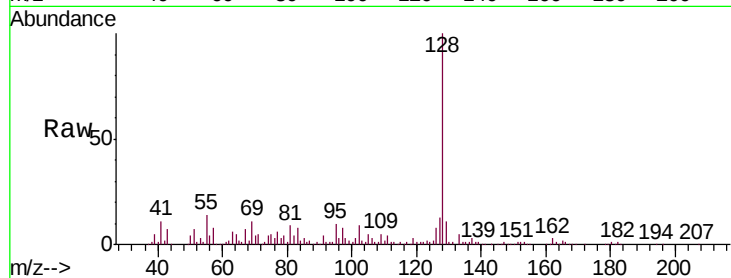
Tgt Ion:128 Resp: 222894

Ion Ratio Lower Upper

128 100

129 9.2 8.7 13.1

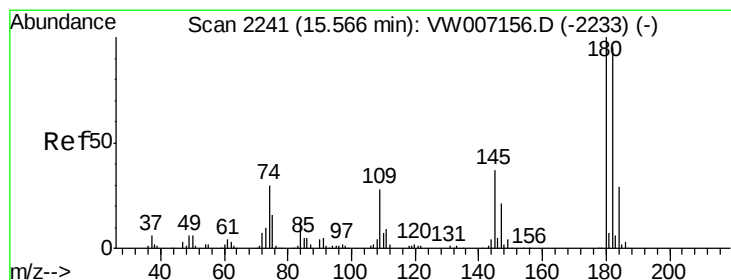
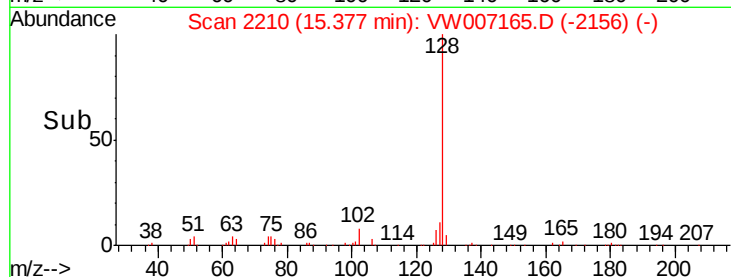
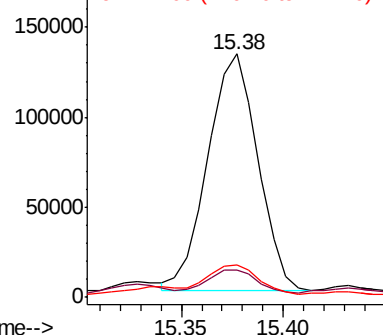
127 12.4 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 1.393 ug/L

RT: 15.53 min Scan# 2235

Delta R.T. -0.04 min

Lab File: VW007165.D

Acq: 03 Dec 2018 16:22

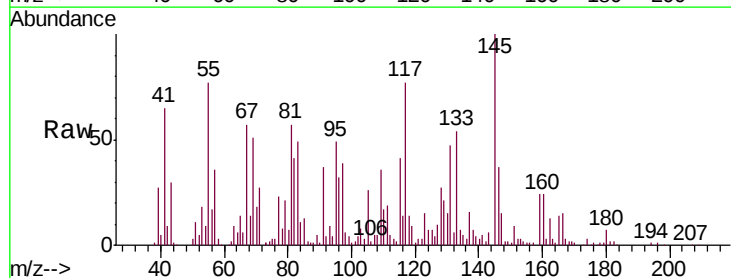
Tgt Ion:180 Resp: 3713

Ion Ratio Lower Upper

180 100

182 22.0 75.0 112.4#

145 0.0 28.2 42.4#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

