

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092520\
 Data File : VW016645.D
 Acq On : 24 Sep 2020 16:49
 Operator : SY/VA
 Sample : L4109-11
 Misc : 5.96G/10ML/MSVOA W/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 BG3X1

Manual Integrations
 APPROVED

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 9/28/2020 3:15:21 PM

Quant Time: Sep 28 10:57:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM091520S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Sep 25 07:55:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	449944	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	248029	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	97882m	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.37	65	121391	27.87	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	111.48%
7) Chloroethane-d5	2.90	69	106324	29.90	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	119.60%
10) 1,1-Dichloroethene-d2	4.03	63	284288	29.20	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	116.80%#
20) 2-Butanone-d5	7.08	46	56116	47.26	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	94.52%
24) Chloroform-d	7.66	84	249498	26.51	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	106.04%
26) 1,2-Dichloroethane-d4	8.31	65	129248	26.75	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	107.00%
29) Benzene-d6	8.28	84	462402	41.57	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	166.28%#
33) 1,2-Dichloropropane-d6	9.28	67	130624	43.33	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	173.32%#
37) Toluene-d8	10.33	98	506611	46.29	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	185.16%#
38) trans-1,3-Dichloropropene-	10.58	79	53333	35.10	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	140.40%#
39) 2-Hexanone-d5	10.93	63	46515	84.84	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	169.68%#
48) 1,1,2,2-Tetrachloroethane-	12.70	84	74753	29.14	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	116.56%
61) 1,2-Dichlorobenzene-d4	13.86	152	60397	19.31	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	77.24%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
12) 1,1-Dichloroethene	4.06	96	219699	38.549	ug/L #	85
13) Acetone	4.13	43	28979	31.156	ug/L	97
14) Carbon disulfide	4.39	76	5047	0.294	ug/L #	83
16) Methylene chloride	4.93	84	30623	4.413	ug/L #	44
18) trans-1,2-Dichloroethene	5.43	96	5497m	0.931	ug/L	
19) 1,1-Dichloroethane	6.23	63	106694	11.431	ug/L	98
22) cis-1,2-Dichloroethene	7.18	96	574899	93.878	ug/L	97
30) Cyclohexane	7.96	56	765735	141.276	ug/L	100
31) 1,1,1-Trichloroethane	7.88	97	3431050	592.301	ug/L	99
34) Benzene	8.33	78	7217	0.543	ug/L	100
35) Trichloroethene	9.10	95	6261	1.628	ug/L #	1
36) Methylcyclohexane	9.34	83	109863	16.840	ug/L #	52
44) Toluene	10.38	91	25720635m	1720.596	ug/L	
47) Tetrachloroethene	10.87	164	23395	6.736	ug/L	92
52) Chlorobenzene	11.66	112	99146	9.874	ug/L	99
53) Ethylbenzene	11.73	91	15957154m	940.215	ug/L	
54) m,p-Xylene	11.84	106	20058973m	3018.369	ug/L	

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Quant Title : VOC Analysis
QLast Update : Fri Sep 25 07:55:30 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) o-xylene	12.17	106	11033690m	1733.028	ug/L	
57) Isopropylbenzene	12.47	105	10065683	578.586	ug/L	96
63) 1,3-Dichlorobenzene	13.51	146	80547	12.652	ug/L #	28
64) 1,4-Dichlorobenzene	13.58	146	151764	24.341	ug/L #	22
65) 1,2-Dichlorobenzene	13.87	146	648833	114.055	ug/L #	89
68) 1,2,4-trichlorobenzene	15.14	180	168408	44.711	ug/L #	16
70) 1,2,3-Trichlorobenzene	15.56	180	56856	17.551	ug/L #	1

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

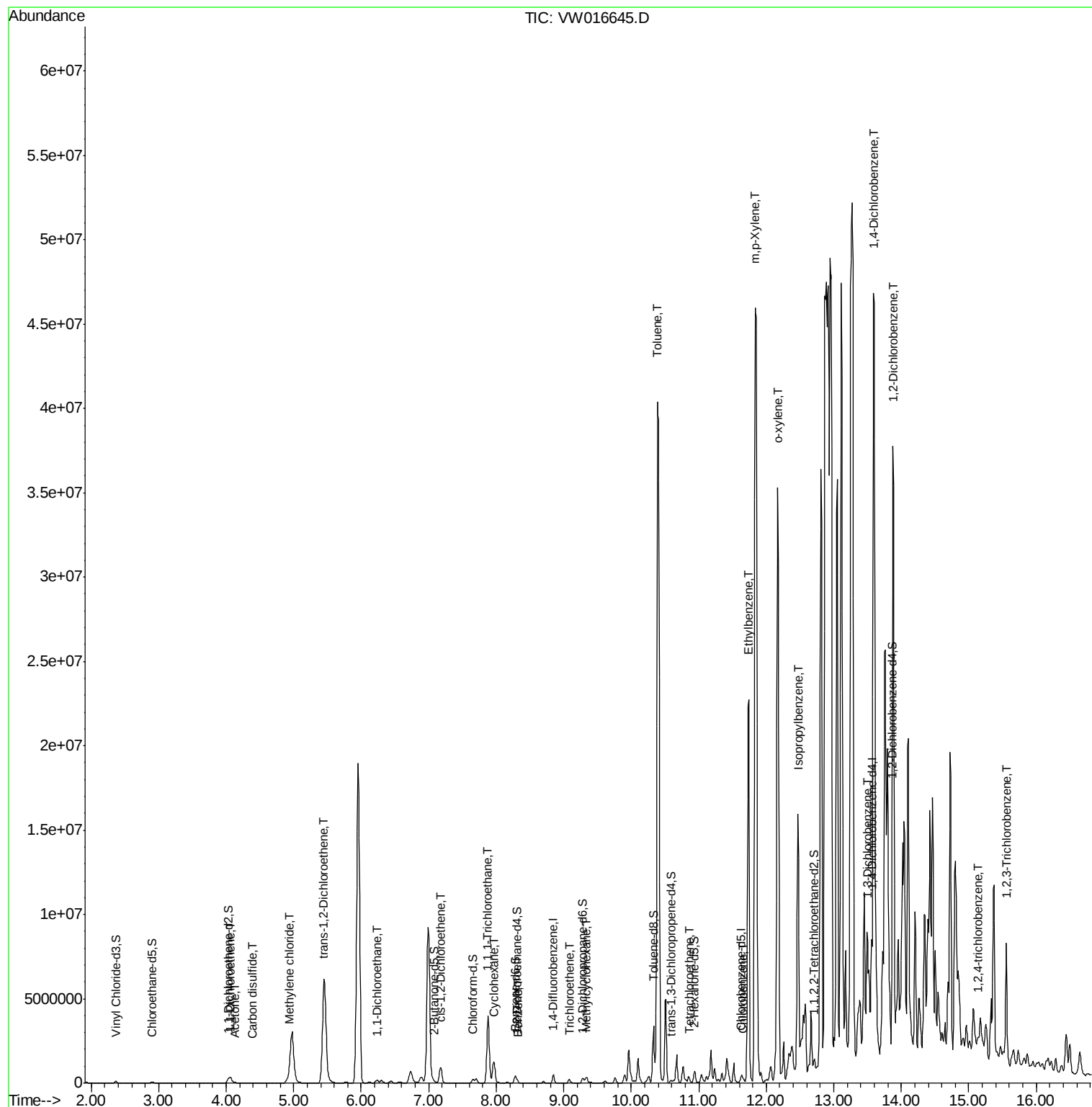
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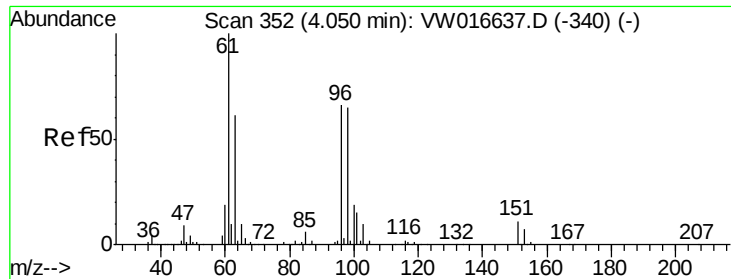
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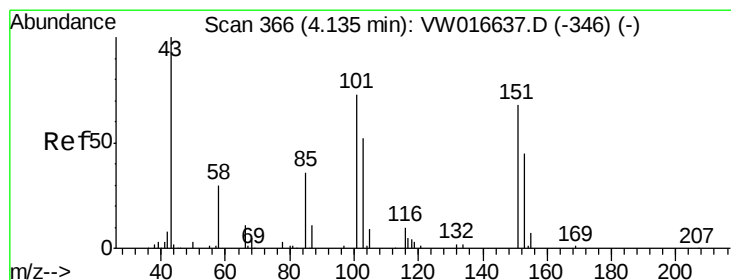
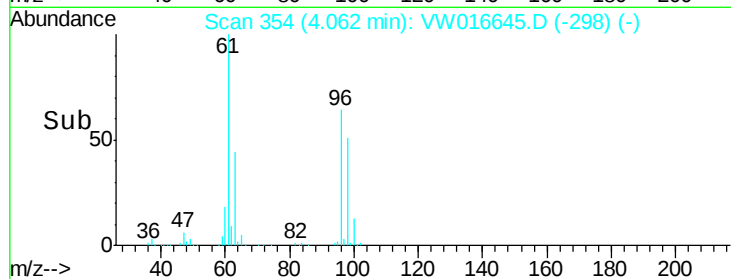
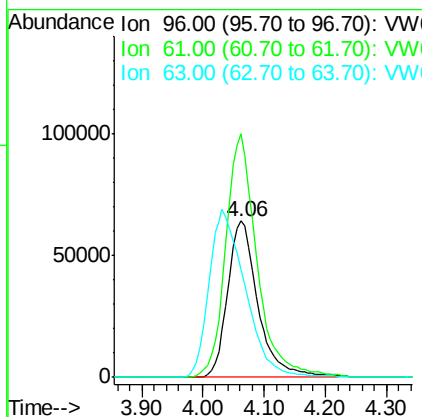
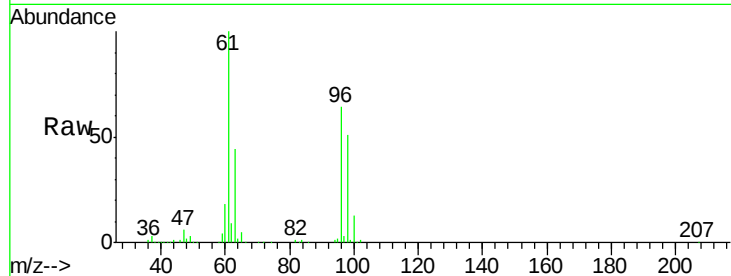
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 1,1-Dichloroethene
 Concen: 38.549 ug/L
 RT: 4.06 min Scan# 354
 Delta R.T. 0.01 min
 Lab File: VW016645.D
 Acq: 24 Sep 2020 16:49

Instrument :
 MSVOA_W
 ClientSampled :
 BG3X1

Tot Ion	Ratio	Resp	Lower	Upper
96	100	219699		
61	156.0		111.4	206.8
63	68.8		73.0	135.6#

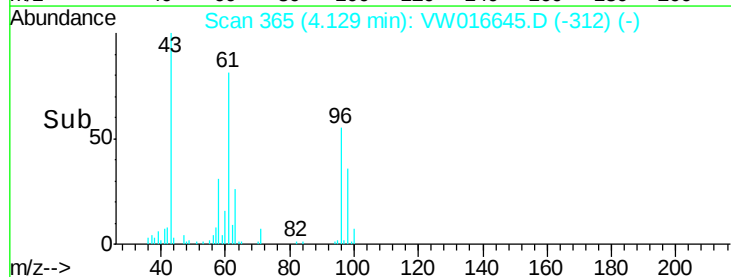
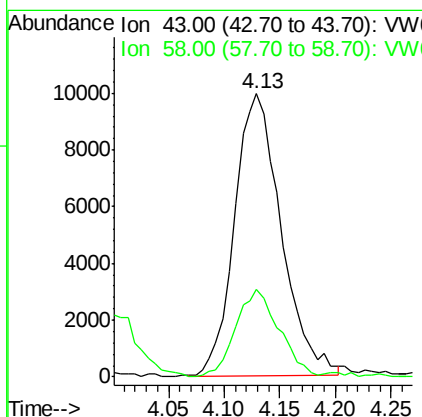
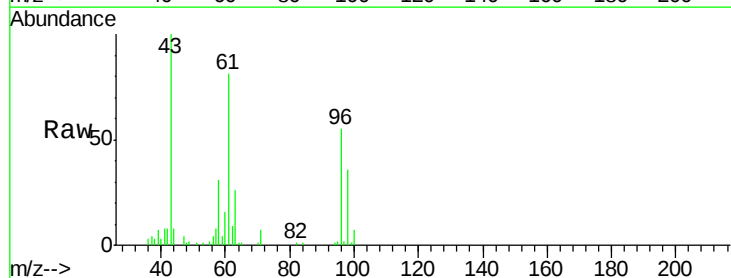
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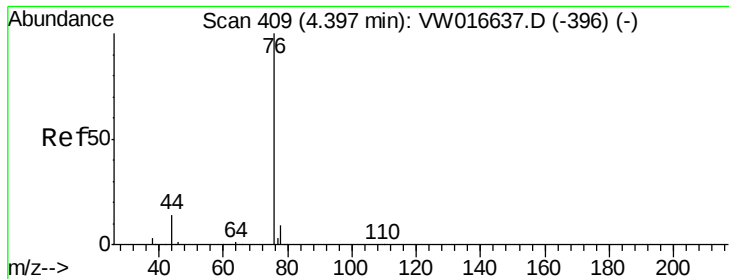
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#13
 Acetone
 Concen: 31.156 ug/L
 RT: 4.13 min Scan# 365
 Delta R.T. -0.01 min
 Lab File: VW016645.D
 Acq: 24 Sep 2020 16:49

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	28979		
58	28.7		0.0	60.2





#14

Carbon disulfide

Concen: 0.294 ug/L

RT: 4.39 min Scan# 408

Delta R.T. -0.01 min

Lab File: VW016645.D

Acq: 24 Sep 2020 16:49

Instrument :

MSVOA_W

ClientSampleId :

BG3X1

Tot Ion: 76 Resp: 5047

Ion Ratio Lower Upper

76 100

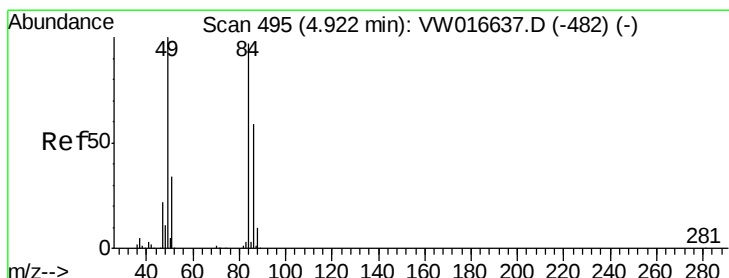
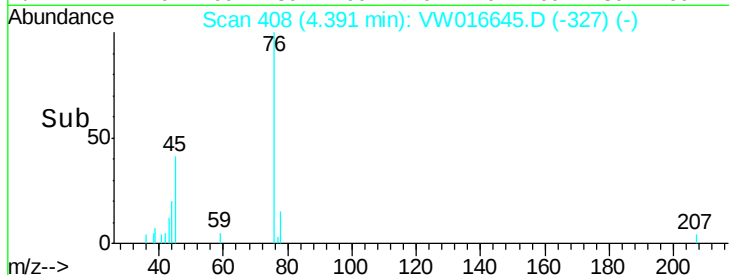
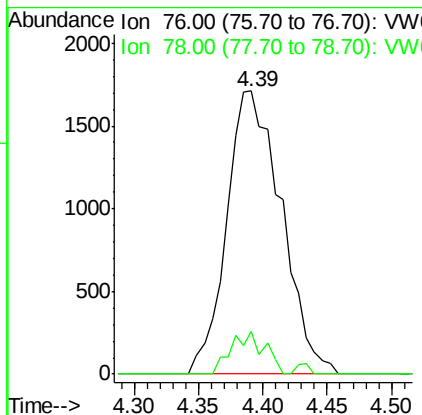
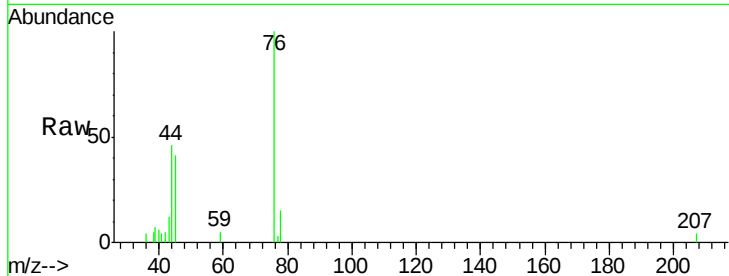
78 15.2 7.3 10.9#

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#16

Methylene chloride

Concen: 4.413 ug/L

RT: 4.93 min Scan# 496

Delta R.T. 0.01 min

Lab File: VW016645.D

Acq: 24 Sep 2020 16:49

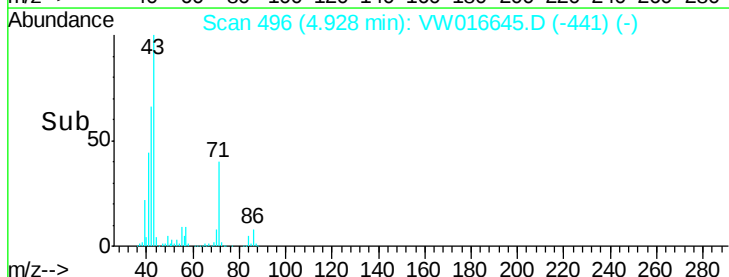
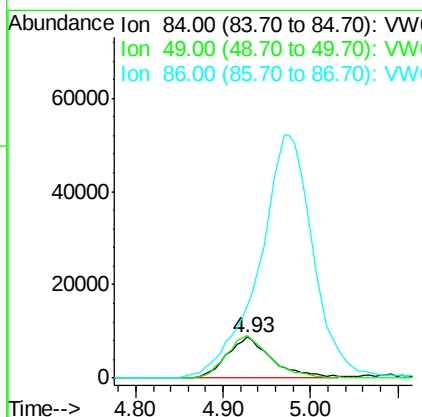
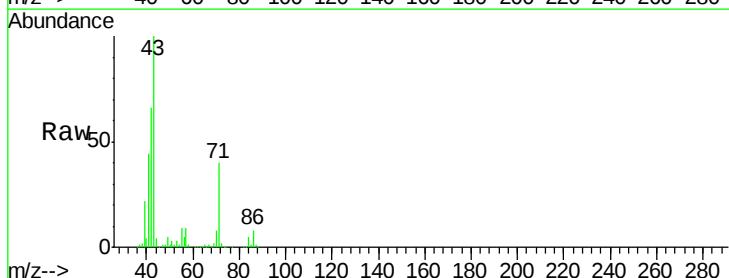
Tgt Ion: 84 Resp: 30623

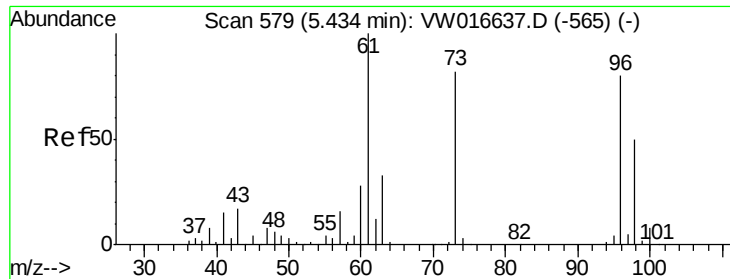
Ion Ratio Lower Upper

84 100

49 102.9 76.0 141.2

86 175.6 45.6 84.6#





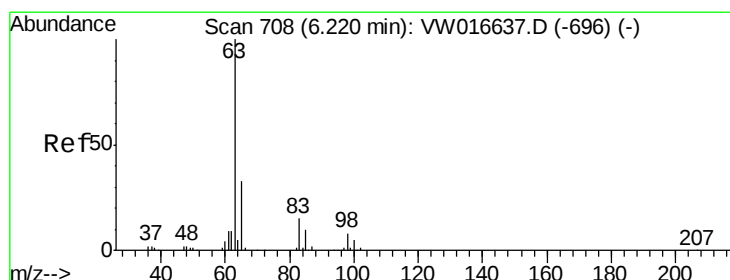
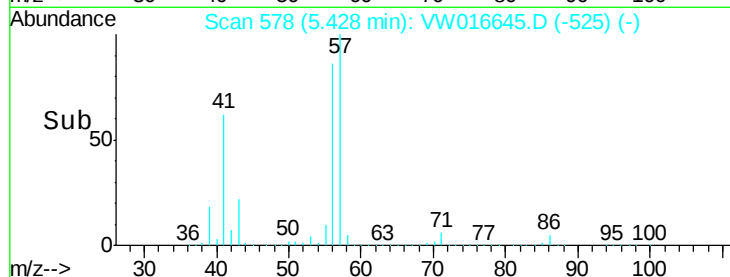
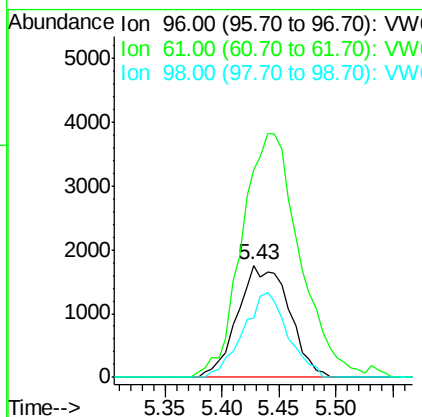
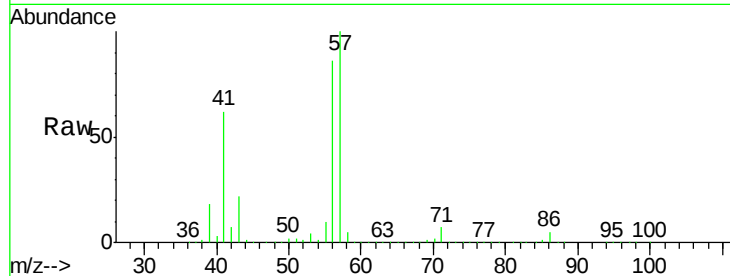
#18
trans-1,2-Dichloroethene
Concen: 0.931 ug/L m
RT: 5.43 min Scan# 578
Delta R.T. -0.01 min
Lab File: VW016645.D
Acq: 24 Sep 2020 16:49

Instrument :
MSVOA_W
ClientSampled :
BG3X1

Tot Ion	Ratio	Lower	Upper
96	100		
61	185.4	88.4	164.2#
98	53.6	43.0	80.0

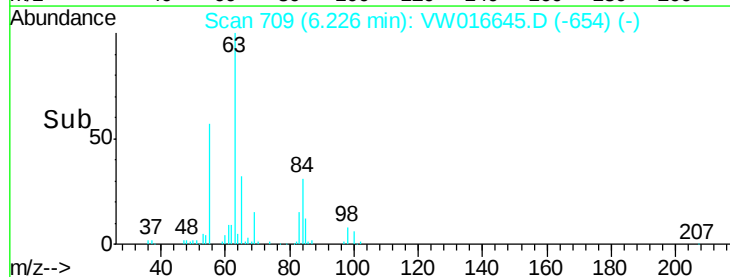
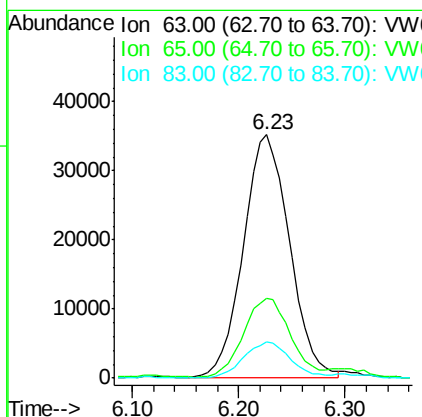
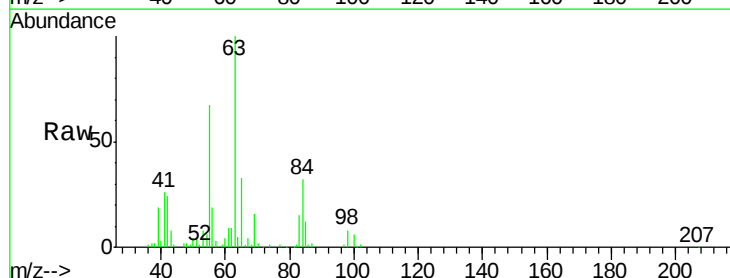
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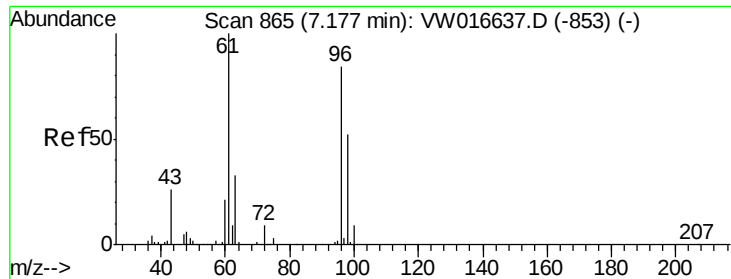
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#19
1,1-Dichloroethane
Concen: 11.431 ug/L
RT: 6.23 min Scan# 709
Delta R.T. 0.01 min
Lab File: VW016645.D
Acq: 24 Sep 2020 16:49

Tgt Ion	Ratio	Lower	Upper
63	100		
65	32.6	21.6	40.0
83	14.7	10.4	19.2





#22

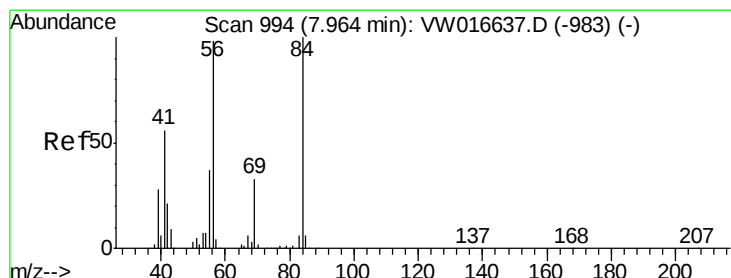
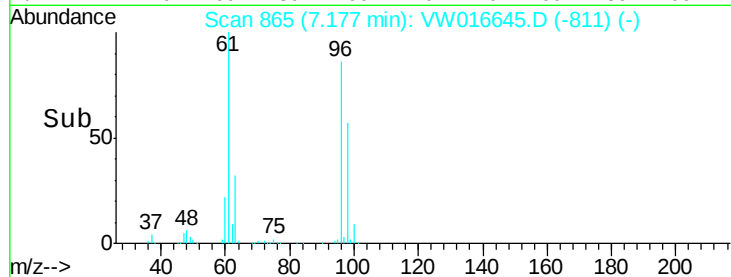
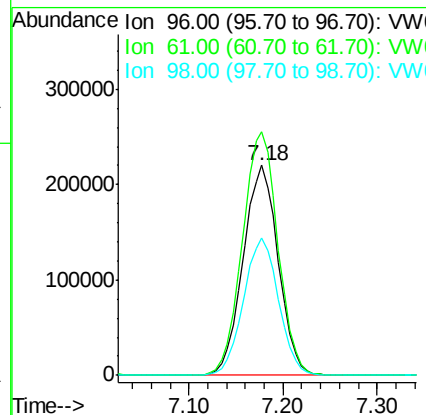
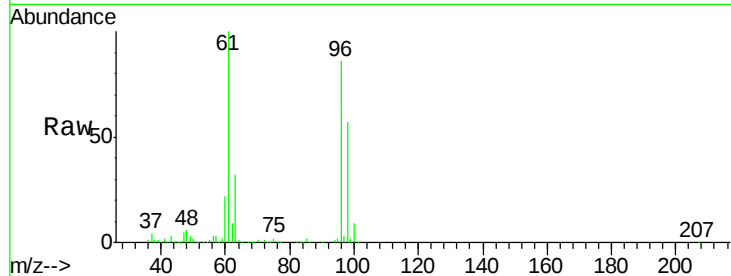
cis-1,2-Dichloroethene
Concen: 93.878 ug/L
RT: 7.18 min Scan# 865
Delta R.T. -0.00 min
Lab File: VW016645.D
Acq: 24 Sep 2020 16:49

Instrument :
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Tot Ion	Ratio	Lower	Upper
96	100		
61	115.9	78.4	145.6
98	65.6	44.8	83.2

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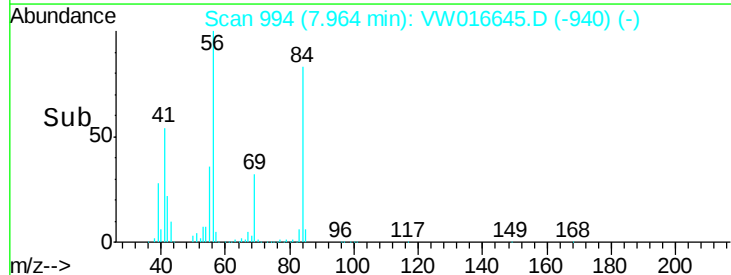
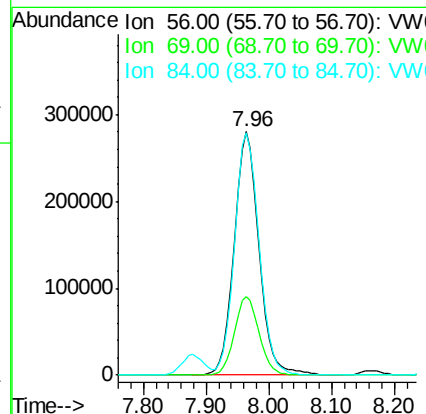
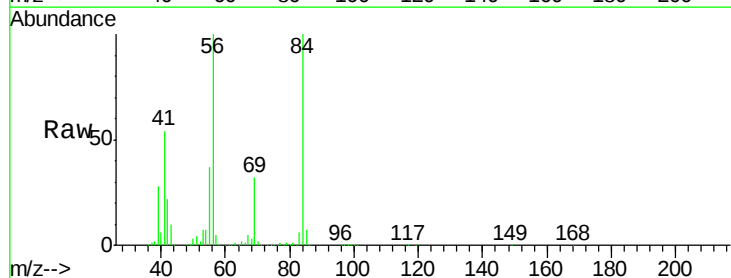
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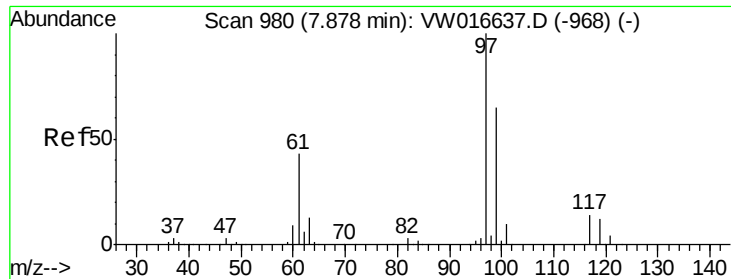


#30

Cyclohexane
Concen: 141.276 ug/L
RT: 7.96 min Scan# 994
Delta R.T. -0.00 min
Lab File: VW016645.D
Acq: 24 Sep 2020 16:49

Tgt Ion	Ratio	Lower	Upper
56	100		
69	32.2	26.5	39.7
84	98.8	79.0	118.6





#31

1,1,1-Trichloroethane

Concen: 592.301 ug/L

RT: 7.88 min Scan# 980

Delta R.T. -0.00 min

Lab File: VW016645.D

Acq: 24 Sep 2020 16:49

Instrument :

MSVOA_W

ClientSampled :

BG3X1

Tot Ion: 97 Resp: 3431050

Ion Ratio Lower Upper

97 100

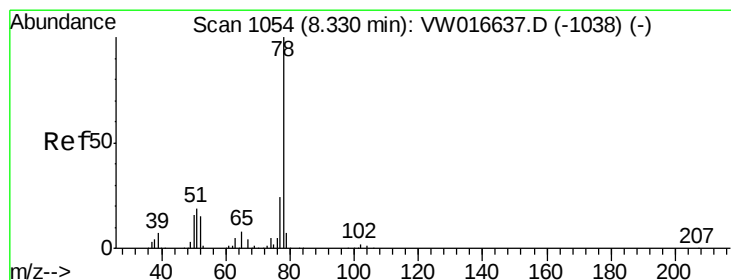
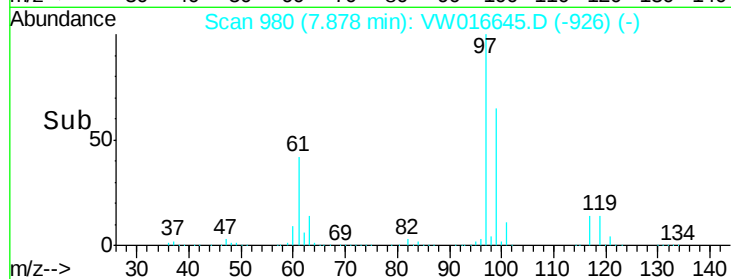
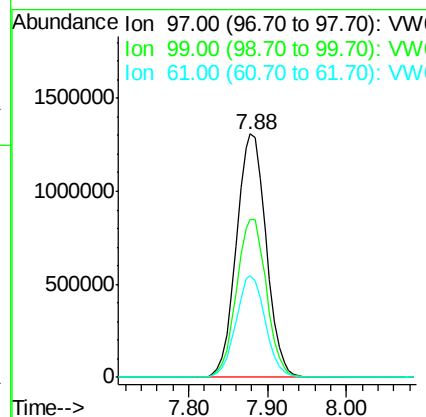
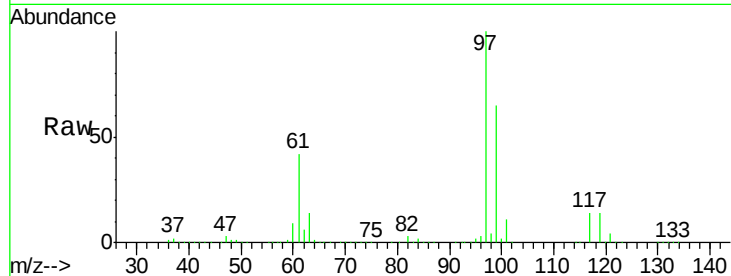
99 65.2 51.8 77.6

61 41.1 33.6 50.4

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#34

Benzene

Concen: 0.543 ug/L

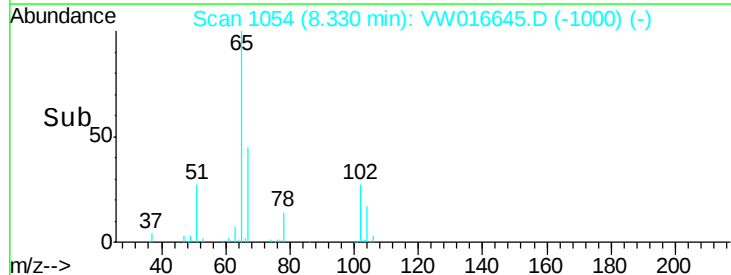
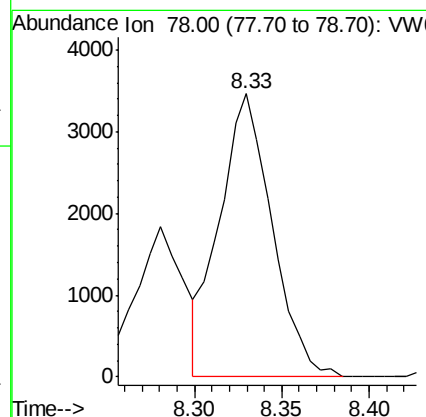
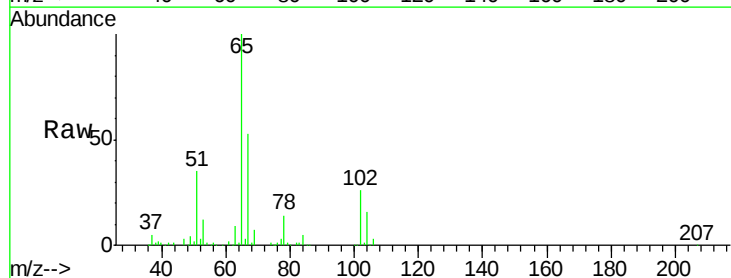
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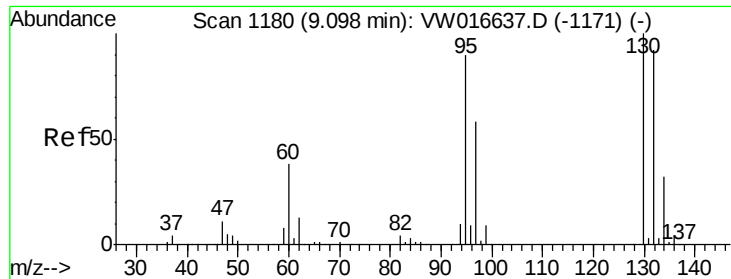
Delta R.T. -0.00 min

Lab File: VW016645.D

Acq: 24 Sep 2020 16:49

Tgt Ion: 78 Resp: 7217





#35

Trichloroethene

Concen: 1.628 ug/L

RT: 9.10 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VW016645.D

Acq: 24 Sep 2020 16:49

Instrument :

MSVOA_W

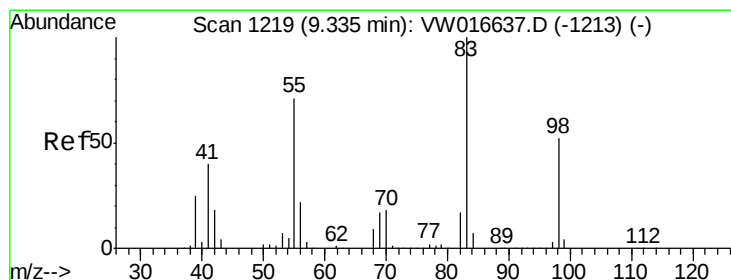
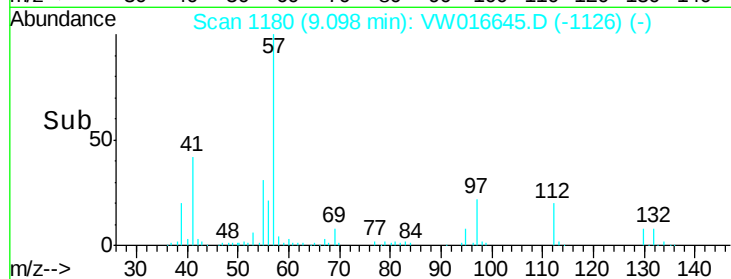
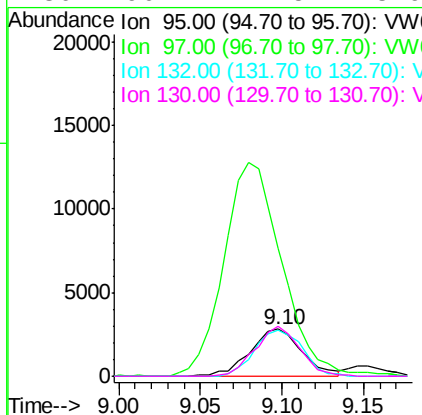
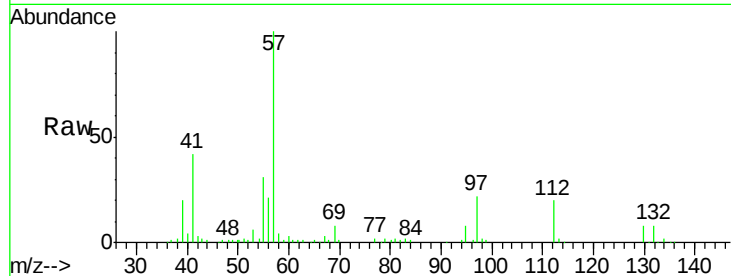
ClientSampleId :

BG3X1

Tot Ion:	95	Resp:	6261
Ion	Ratio	Lower	Upper
95	100		
97	506.9	45.2	84.0#
132	89.9	73.3	136.1
130	90.1	77.5	143.9

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#36

Methylcyclohexane

Concen: 16.840 ug/L

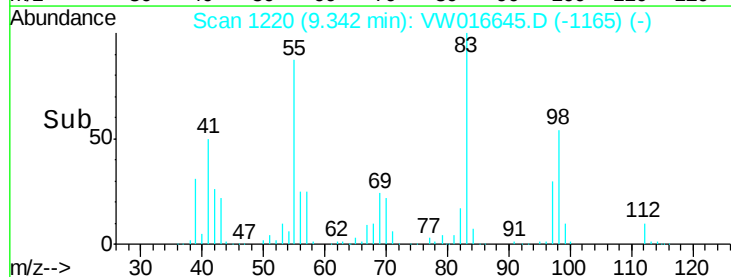
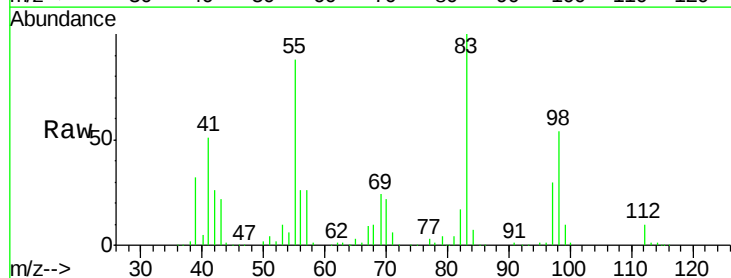
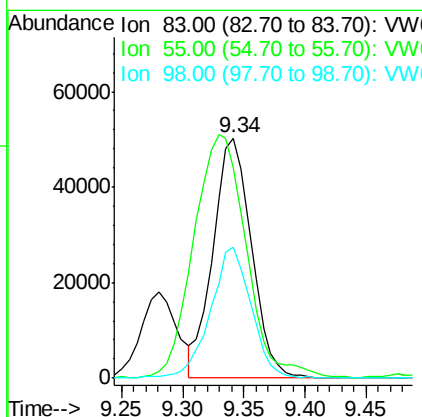
RT: 9.34 min Scan# 1220

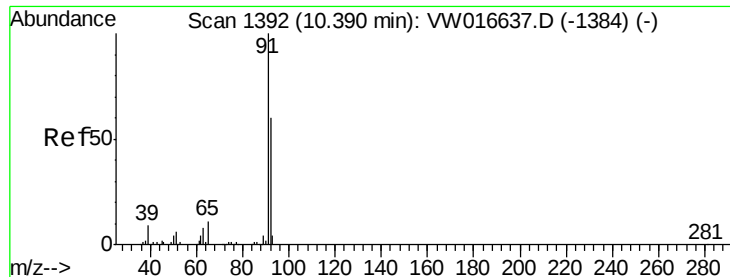
Delta R.T. 0.01 min

Lab File: VW016645.D

Acq: 24 Sep 2020 16:49

Tgt Ion:	83	Resp:	109863
Ion	Ratio	Lower	Upper
83	100		
55	134.2	55.9	83.9#
98	57.9	42.1	63.1





#44

Toluene

Concen: 1720.596 ug/L m

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW016645.D

Acq: 24 Sep 2020 16:49

Instrument :

MSVOA_W

ClientSampleId :

BG3X1

Tot Ion: 91 Resp: 25720635

Ion Ratio Lower Upper

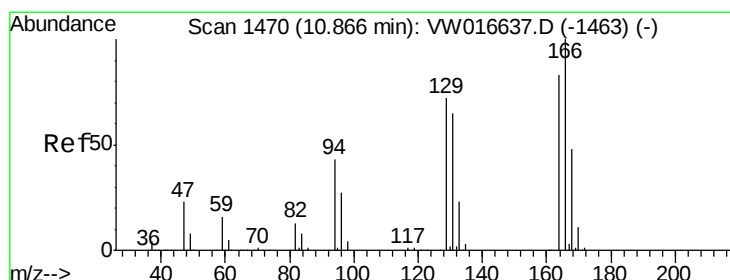
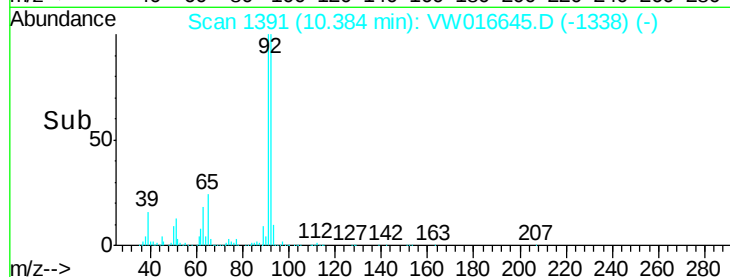
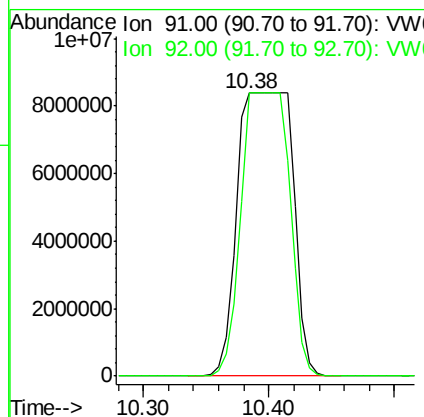
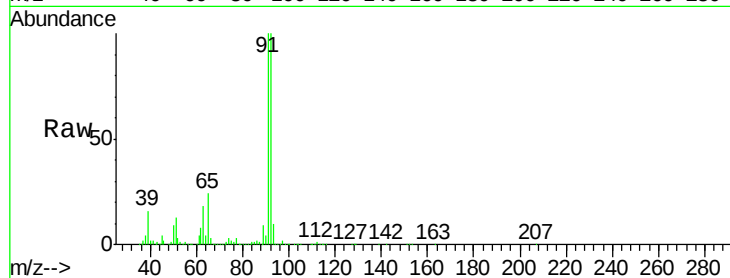
91 100

92 100.0 39.6 73.6#

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#47

Tetrachloroethene

Concen: 6.736 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VW016645.D

Acq: 24 Sep 2020 16:49

Tgt Ion: 164 Resp: 23395

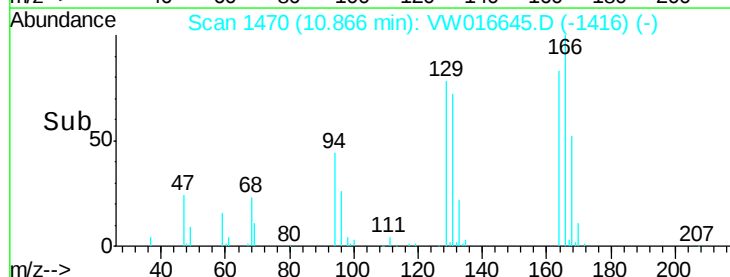
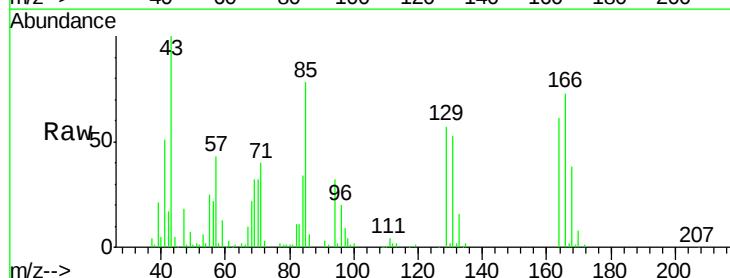
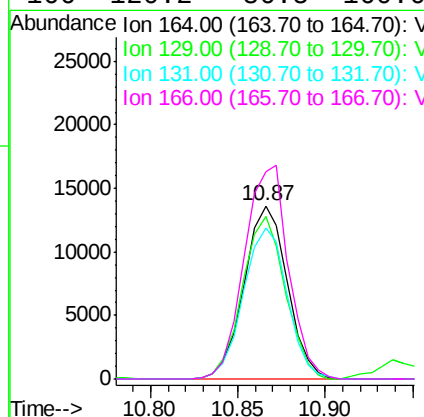
Ion Ratio Lower Upper

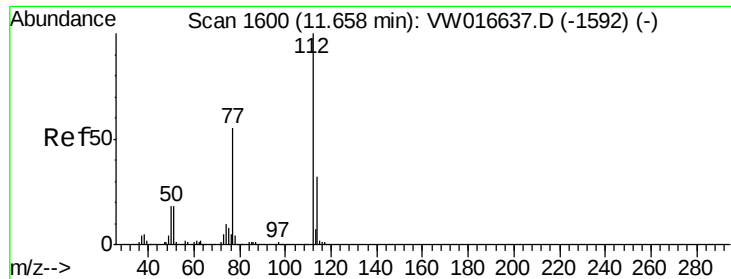
164 100

129 94.1 55.6 103.2

131 87.1 57.2 106.2

166 120.2 86.5 160.6





#52

Chlorobenzene

Concen: 9.874 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VW016645.D

Acq: 24 Sep 2020 16:49

Instrument :

MSVOA_W

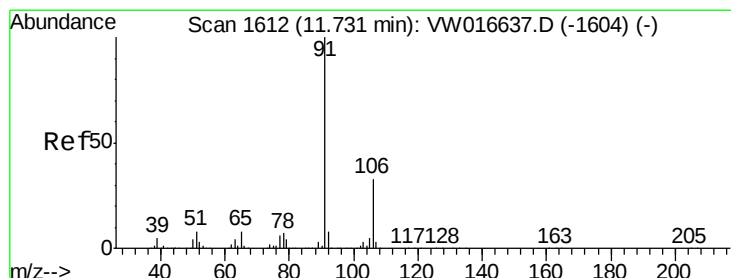
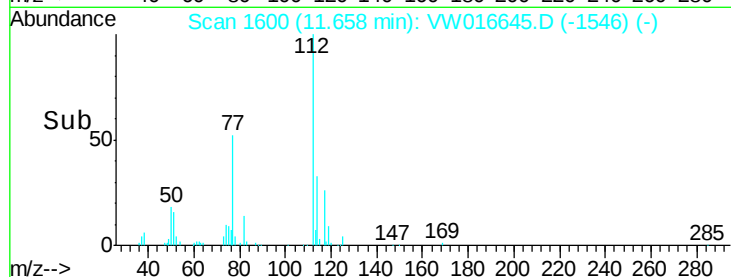
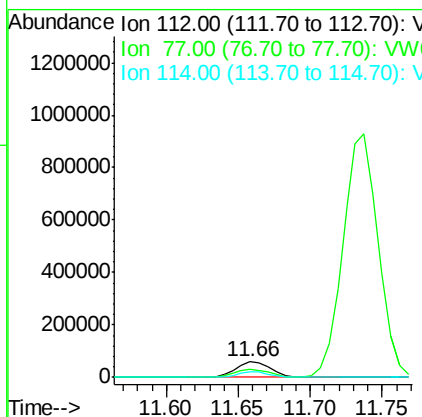
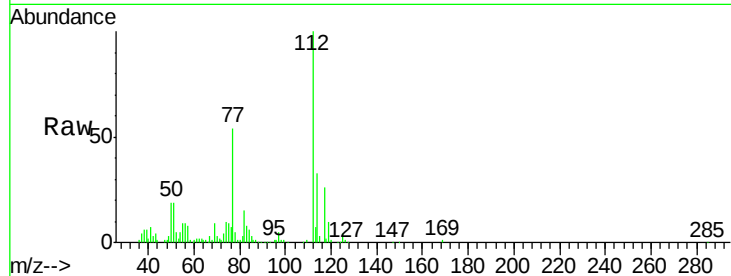
ClientSampleId :

BG3X1

Tot Ion:	112	Resp:	99146
Ion Ratio	Lower	Upper	
112	100		
77	54.0	43.1	64.7
114	32.9	22.3	41.3

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#53

Ethylbenzene

Concen: 940.215 ug/L m

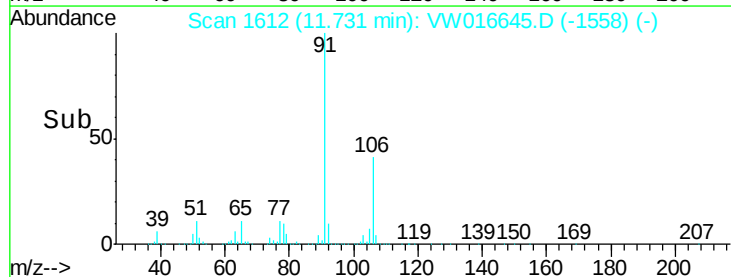
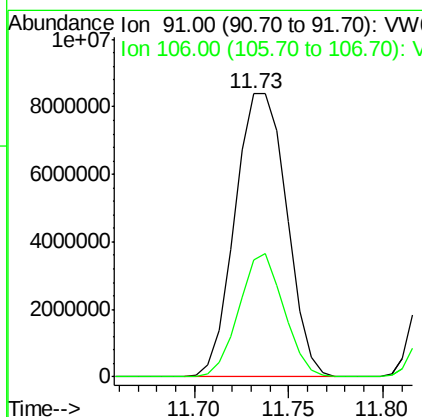
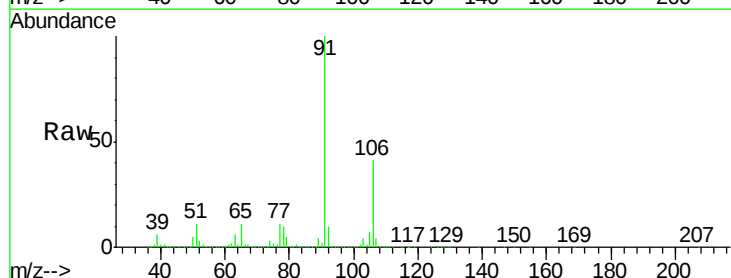
RT: 11.73 min Scan# 1612

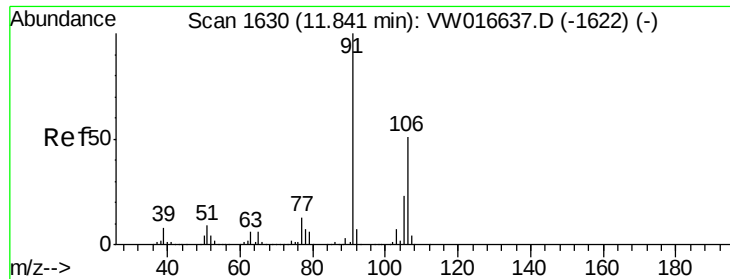
Delta R.T. -0.00 min

Lab File: VW016645.D

Acq: 24 Sep 2020 16:49

Tgt Ion:	91	Resp:	15957154
Ion Ratio	Lower	Upper	
91	100		
106	41.4	20.7	38.5#





#54

m,p-Xylene

Concen: 3018.369 ug/L m

RT: 11.84 min Scan# 1629

Delta R.T. -0.01 min

Lab File: VW016645.D

Acq: 24 Sep 2020 16:49

Instrument :

MSVOA_W

ClientSampled :

BG3X1

Tot Ion:106 Resp:20058973

Ion Ratio Lower Upper

106 100

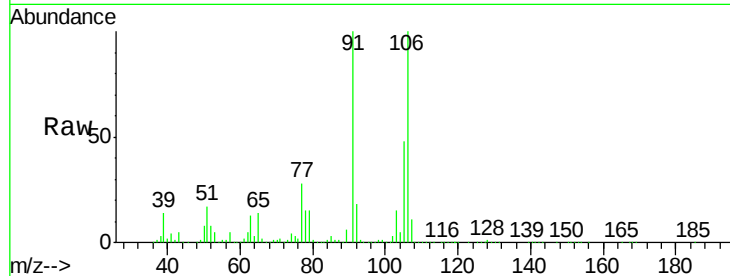
91 100.4 139.7 259.5#

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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

11.84

8000000

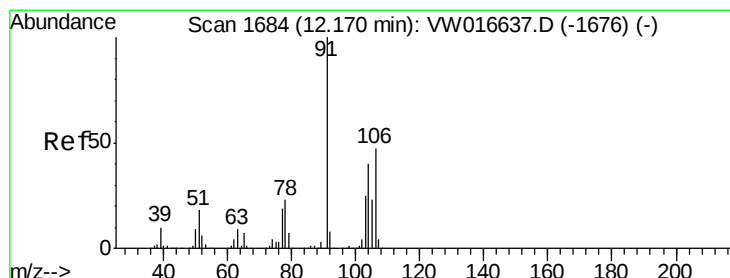
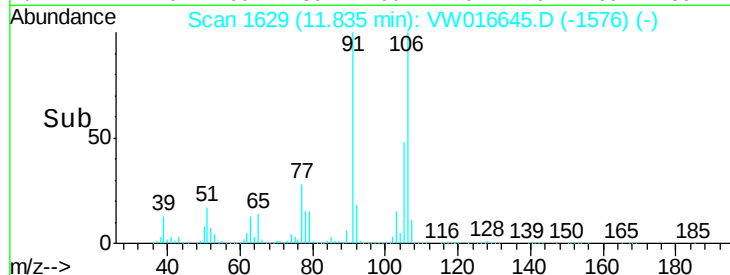
6000000

4000000

2000000

0

Time--> 11.75 11.80 11.85 11.90



#55

o-xylene

Concen: 1733.028 ug/L m

RT: 12.17 min Scan# 1684

Delta R.T. -0.00 min

Lab File: VW016645.D

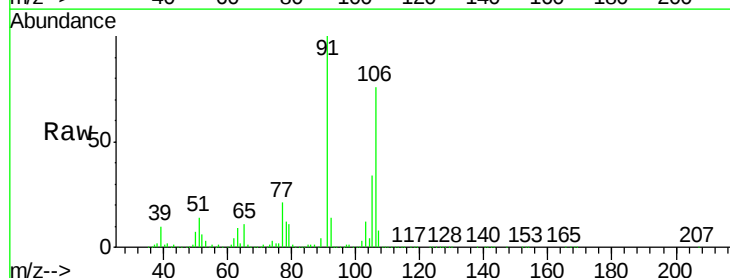
Acq: 24 Sep 2020 16:49

Tgt Ion:106 Resp:11033690

Ion Ratio Lower Upper

106 100

91 131.6 144.8 268.8#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

12.17

8000000

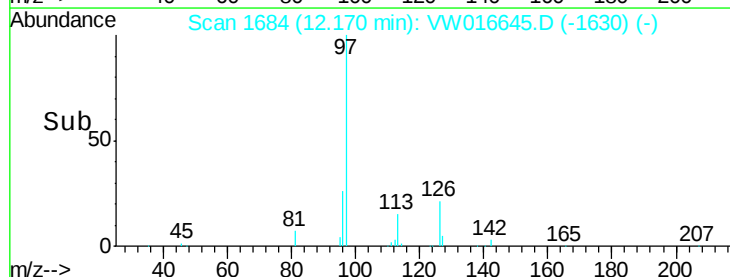
6000000

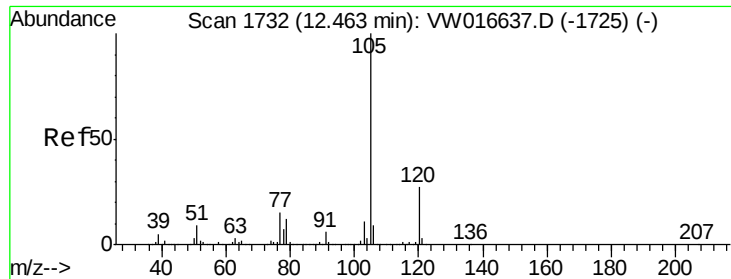
4000000

2000000

0

Time--> 12.10 12.15 12.20





#57

Isopropylbenzene

Concen: 578.586 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW016645.D

Acq: 24 Sep 2020 16:49

Instrument :

MSVOA_W

ClientSampleId :

BG3X1

Tot Ion:105 Resp:10065683

Ion Ratio Lower Upper

105 100

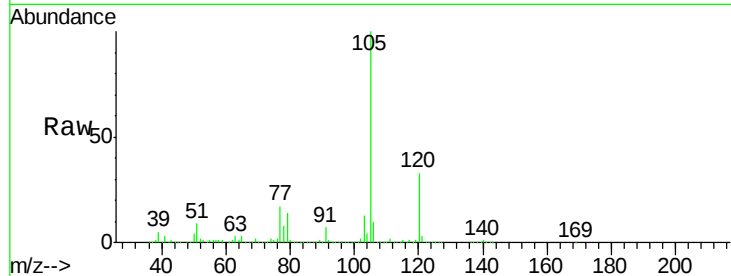
120 29.8 21.8 32.8

77 15.9 12.2 18.2

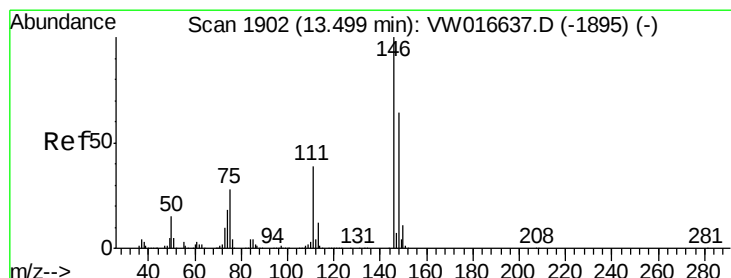
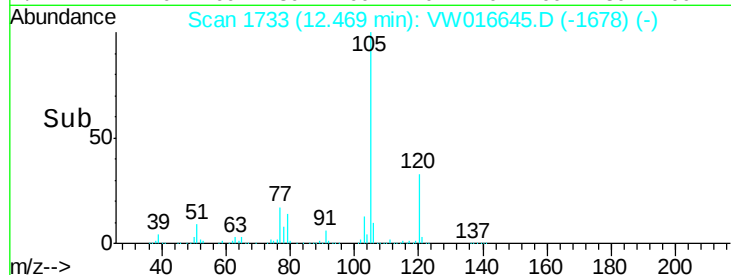
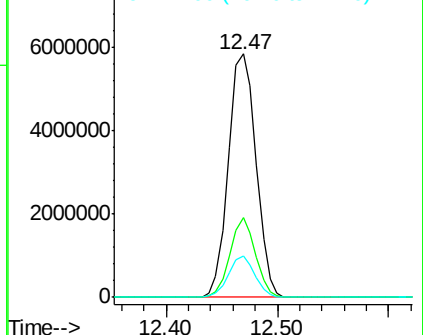
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Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V
Ion 77.00 (76.70 to 77.70): V



#63

1,3-Dichlorobenzene

Concen: 12.652 ug/L

RT: 13.51 min Scan# 1903

Delta R.T. 0.01 min

Lab File: VW016645.D

Acq: 24 Sep 2020 16:49

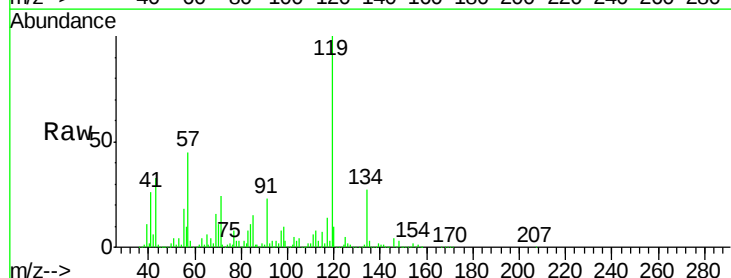
Tgt Ion:146 Resp: 80547

Ion Ratio Lower Upper

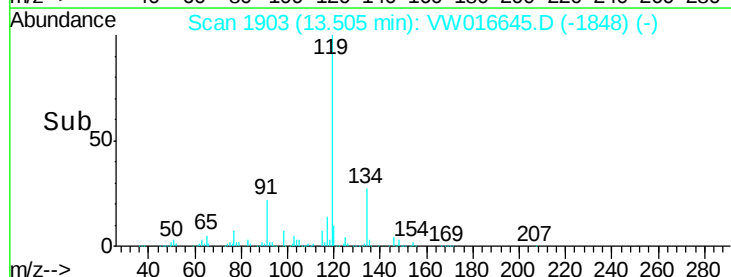
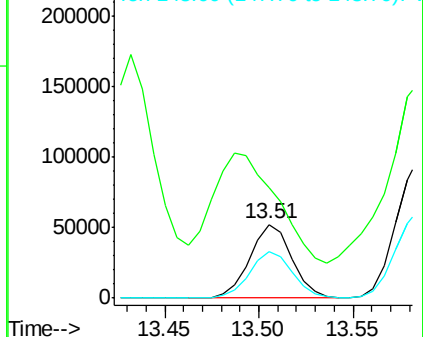
146 100

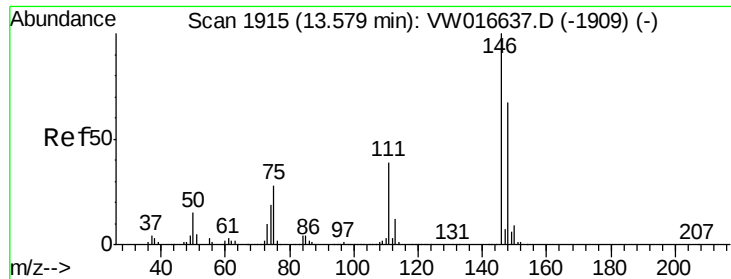
111 150.9 25.0 46.4#

148 63.6 44.0 81.8



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V





#64

1,4-Dichlorobenzene

Concen: 24.341 ug/L

RT: 13.58 min Scan# 1916

Delta R.T. 0.01 min

Lab File: VW016645.D

Acq: 24 Sep 2020 16:49

Instrument :

MSVOA_W

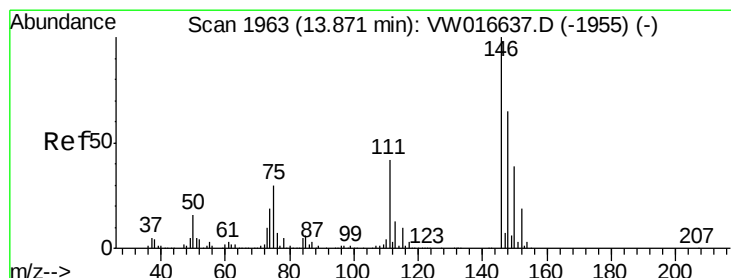
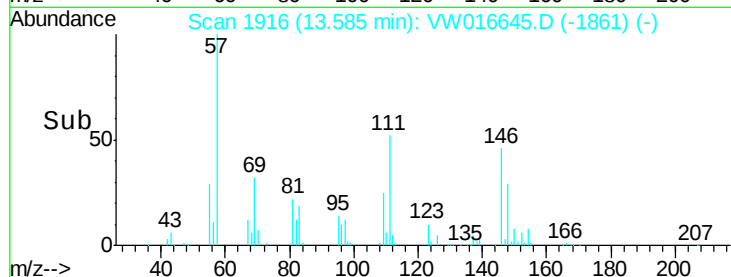
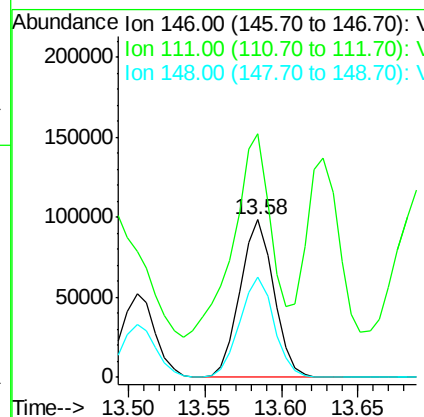
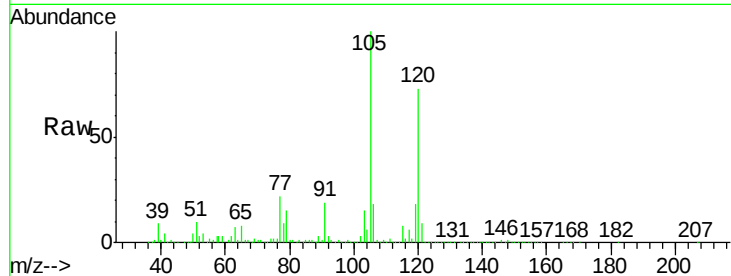
ClientSampled :

BG3X1

Tot Ion:	146	Resp:	151764
Ion Ratio	Lower	Upper	
146	100		
111	154.4	25.1	46.5#
148	63.4	42.3	78.5

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#65

1,2-Dichlorobenzene

Concen: 114.055 ug/L

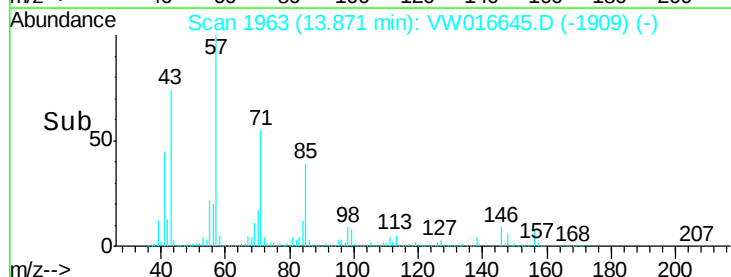
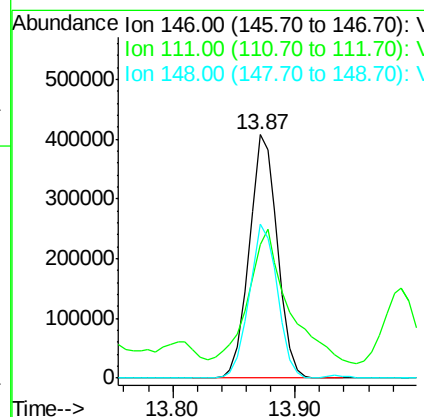
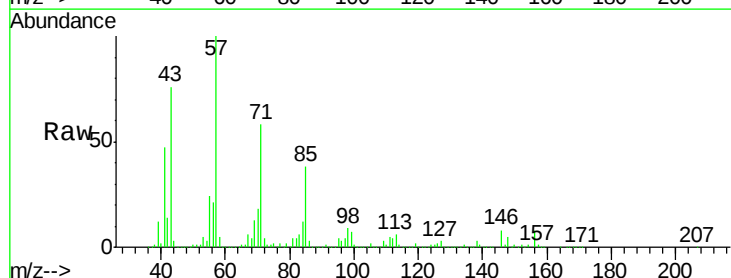
RT: 13.87 min Scan# 1963

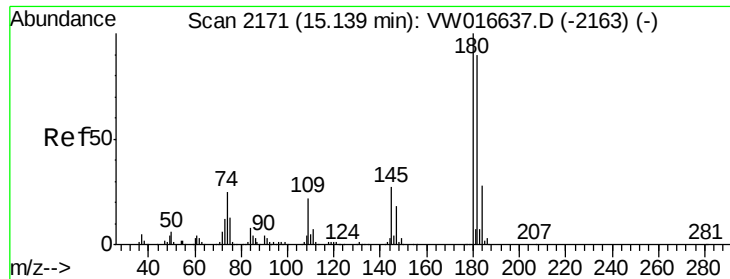
Delta R.T. -0.00 min

Lab File: VW016645.D

Acq: 24 Sep 2020 16:49

Tgt Ion:	146	Resp:	648833
Ion Ratio	Lower	Upper	
146	100		
111	54.8	31.4	47.0#
148	63.1	49.3	73.9





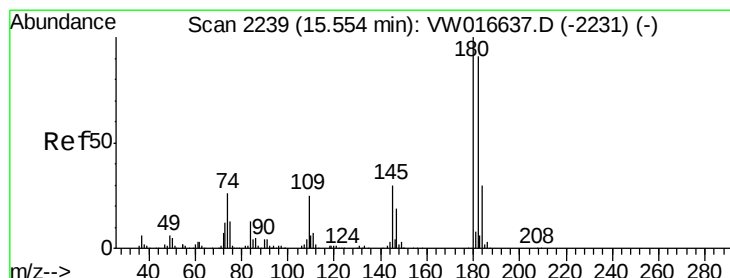
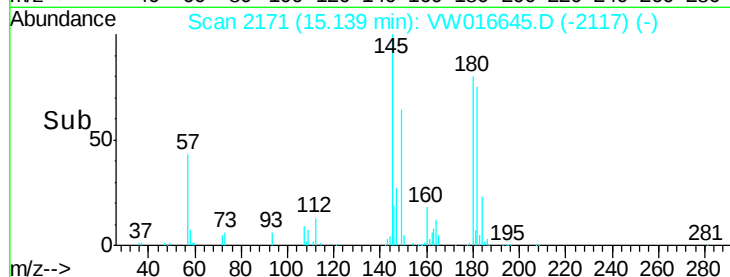
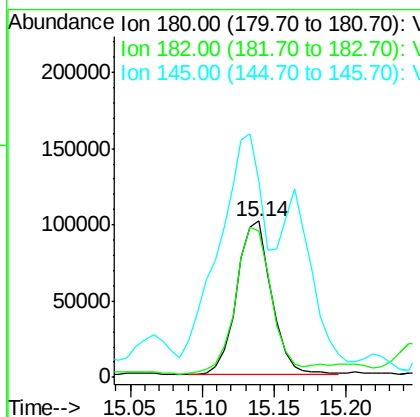
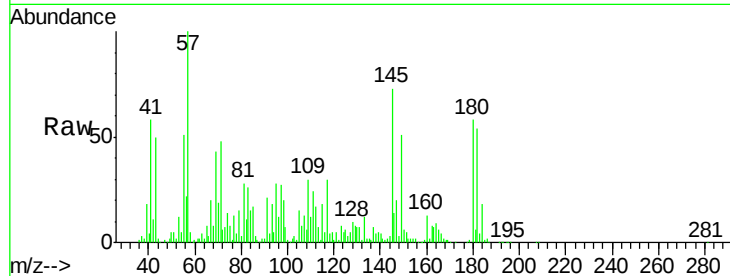
#68
 1,2,4-trichlorobenzene
 Concen: 44.711 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. -0.00 min
 Lab File: VW016645.D
 Acq: 24 Sep 2020 16:49

Instrument :
 MSVOA_W
 ClientSampleId :
 BG3X1

Tot Ion	Ratio	Resp	Lower	Upper
180	100	168408		
182	99.5	74.5	111.7	
145	205.6	23.1	34.7#	

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#70
 1,2,3-Trichlorobenzene
 Concen: 17.551 ug/L
 RT: 15.56 min Scan# 2240
 Delta R.T. 0.01 min
 Lab File: VW016645.D
 Acq: 24 Sep 2020 16:49

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	56856		
182	76.9	76.3	114.5	
145	381.2	24.1	36.1#	

