

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062420\
 Data File : VV017080.D
 Acq On : 24 Jun 2020 18:41
 Operator : SY/MD
 Sample : L3105-04
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BFXK7

Manual Integrations
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 6/25/2020 3:37:59 PM

Quant Time: Jun 25 02:45:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Jun 25 01:16:55 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	177952	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	175242	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	83980	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	46504	4.35	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	87.00%
7) Chloroethane-d5	1.58	69	32951	4.24	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	84.80%
11) 1,1-Dichloroethene-d2	2.13	63	77771	3.83	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	76.60%
20) 2-Butanone-d5	3.93	46	123304	45.30	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	90.60%
24) Chloroform-d	4.38	84	100434	4.40	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.00%
26) 1,2-Dichloroethane-d4	5.06	65	54611	4.51	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.20%
32) Benzene-d6	5.08	84	192457	4.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.60%
36) 1,2-Dichloropropane-d6	6.10	67	57831	4.25	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	85.00%
41) Toluene-d8	7.34	98	171902	4.03	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.60%
45) trans-1,3-Dichloropropene-	7.64	79	23120	4.08	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	81.60%
48) 2-Hexanone-d5	8.11	63	88948	41.18	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	82.36%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	40426	4.47	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	89.40%
65) 1,2-Dichlorobenzene-d4	11.65	152	72337	4.66	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	1178032	100.884	ug/L	100
8) Chloroethane	1.60	64	1526m	0.236	ug/L	
12) 1,1-Dichloroethene	2.14	96	28919	3.386	ug/L	88
13) Acetone	2.20	43	11930m	8.670	ug/L	
18) trans-1,2-Dichloroethene	2.78	96	21380	2.362	ug/L	97
19) 1,1-Dichloroethane	3.21	63	605222	29.763	ug/L	99
22) cis-1,2-Dichloroethene	3.94	96	642307	51.899	ug/L #	98
25) Chloroform	4.40	83	22568	1.016	ug/L	96
27) 1,2-Dichloroethane	5.16	62	22062	1.599	ug/L #	95
29) 1,1,1-Trichloroethane	4.64	97	161396	7.687	ug/L	97
30) Cyclohexane	4.70	56	71483	3.578	ug/L	99
33) Benzene	5.13	78	139194	3.033	ug/L	100
34) Trichloroethene	5.94	95	14455	1.076	ug/L	92
42) Toluene	7.42	91	4207	0.079	ug/L	93
47) 1,1,2-Trichloroethane	7.87	97	20617	2.559	ug/L	96
53) Chlorobenzene	8.90	112	470292	14.139	ug/L	98
56) o-xylene	9.57	106	44717	2.145	ug/L	99

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Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Jun 25 01:16:55 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) Isopropylbenzene	9.95	105	25503	0.445	ug/L	98
63) 1,3-Dichlorobenzene	11.21	146	32908	1.302	ug/L	98
64) 1,4-Dichlorobenzene	11.30	146	66975	2.606	ug/L	98
66) 1,2-Dichlorobenzene	11.67	146	30745	1.340	ug/L	98
69) 1,2,4-trichlorobenzene	13.29	180	5630	0.337	ug/L	94
71) 1,2,3-Trichlorobenzene	13.77	180	2074	0.152	ug/L	95

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

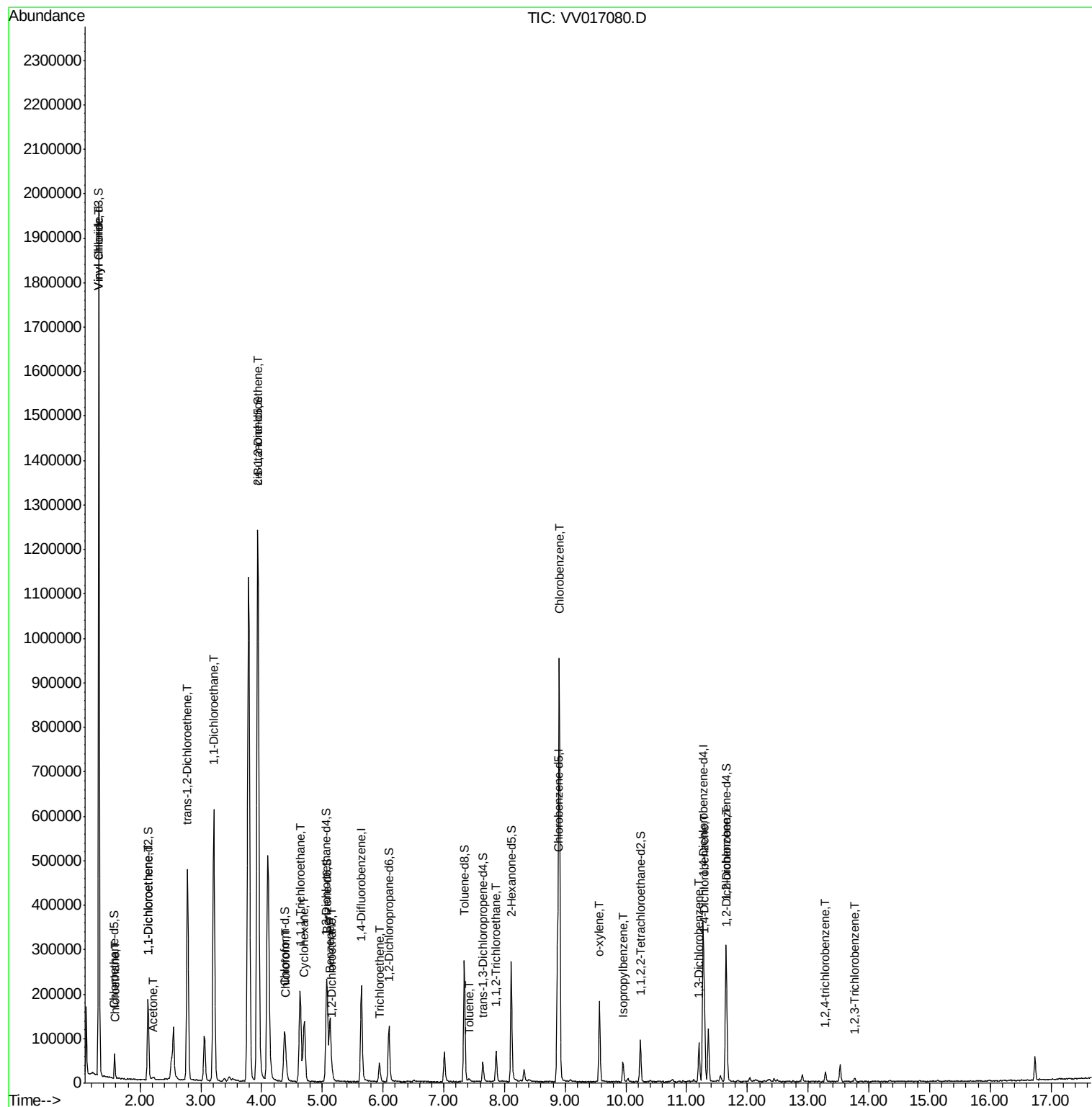
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV062420\
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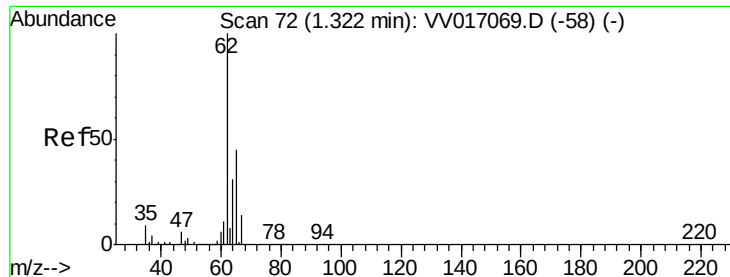
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#5

Vinyl chloride

Concen: 100.884 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV017080.D

Acq: 24 Jun 2020 18:41

Instrument :

MSVOA_V

ClientSampleId :

BFXK7

Tot Ion: 62 Resp: 1178032

Ion Ratio Lower Upper

62 100

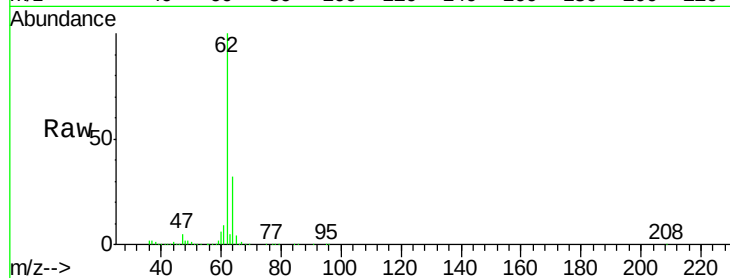
64 32.0 22.5 41.7

Manual Integrations

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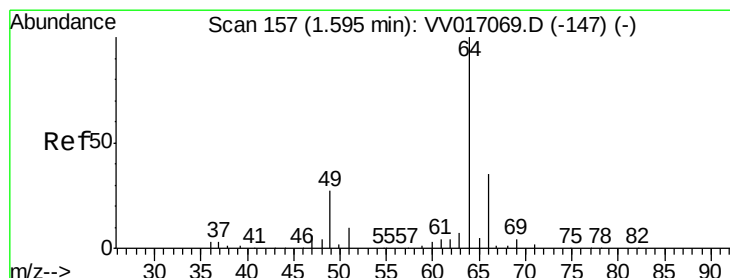
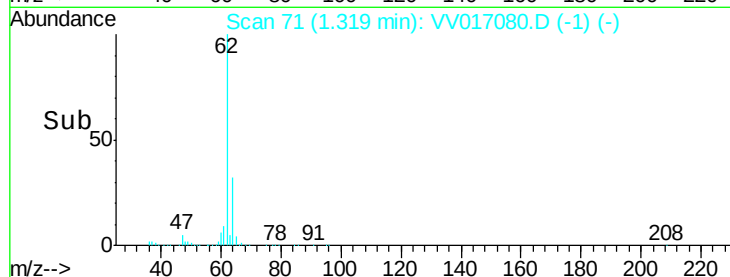
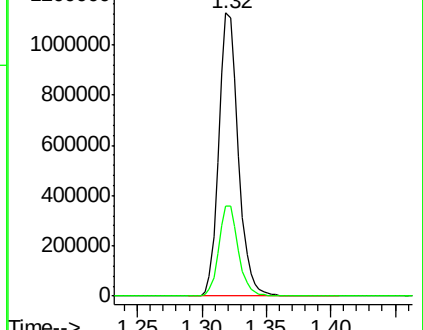
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Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#8

Chloroethane

Concen: 0.236 ug/L m

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV017080.D

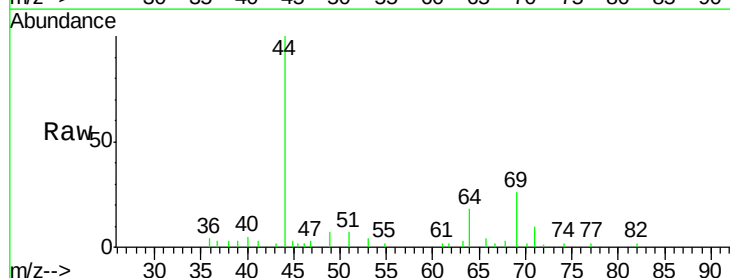
Acq: 24 Jun 2020 18:41

Tgt Ion: 64 Resp: 1526

Ion Ratio Lower Upper

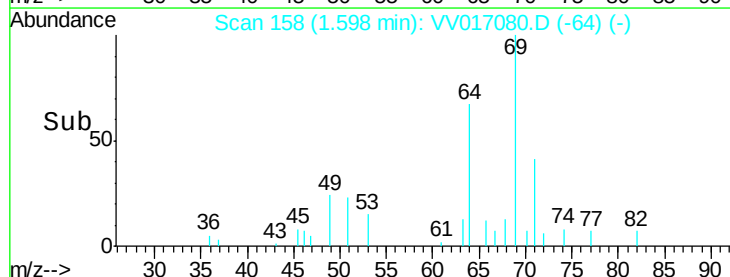
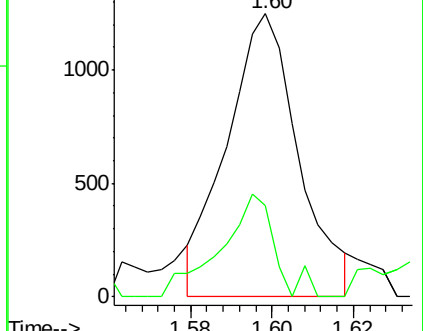
64 100

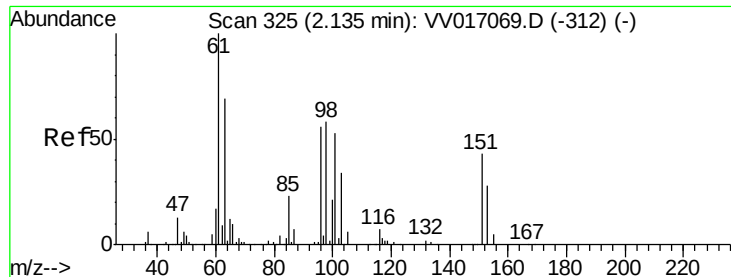
66 23.3 22.8 42.4



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0





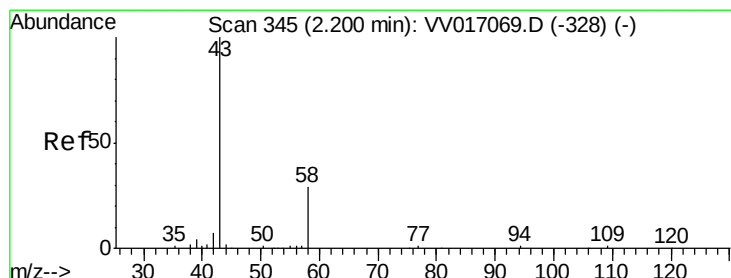
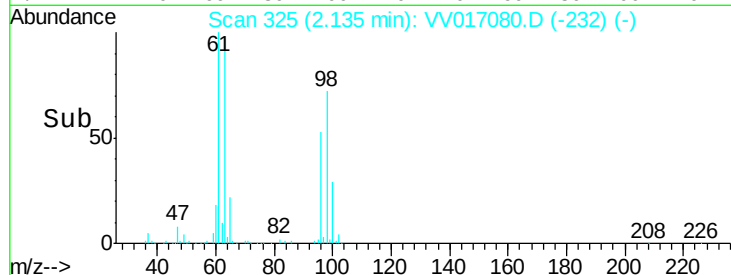
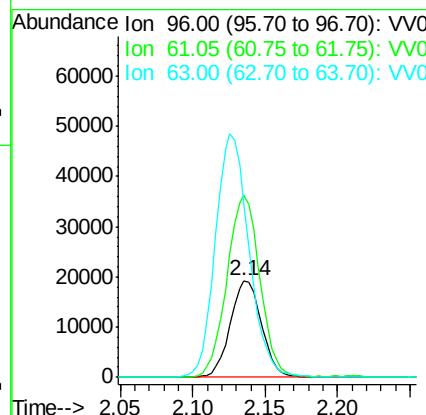
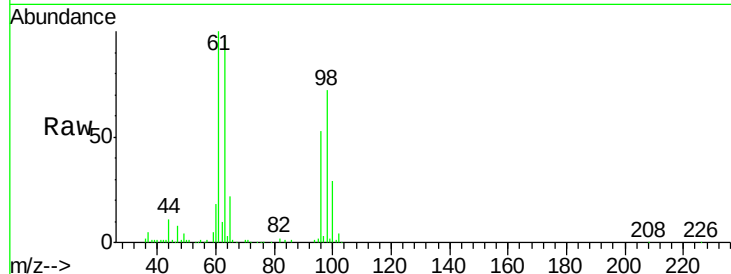
#12
 1,1-Dichloroethene
 Concen: 3.386 ug/L
 RT: 2.14 min Scan# 325
 Delta R.T. 0.00 min
 Lab File: VV017080.D
 Acq: 24 Jun 2020 18:41

Instrument :
 MSVOA_V
 ClientSampleId :
 BFXK7

Tot Ion	Ratio	Lower	Upper
96	100		
61	187.6	125.0	232.2
63	180.7	109.8	203.8

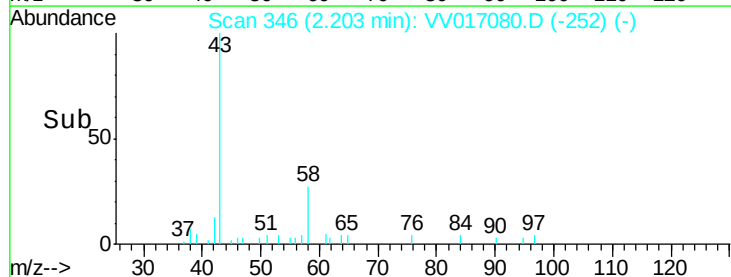
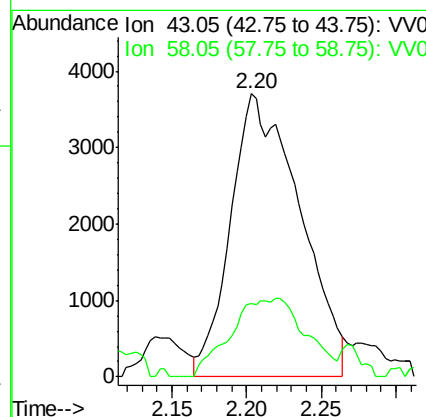
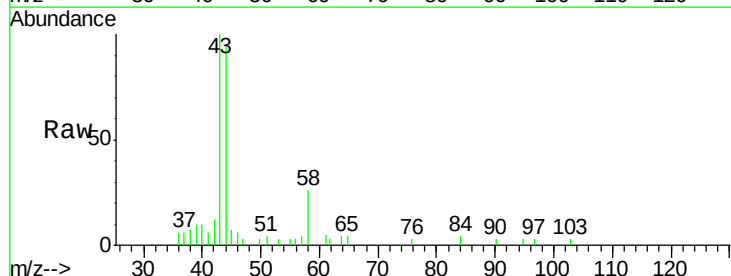
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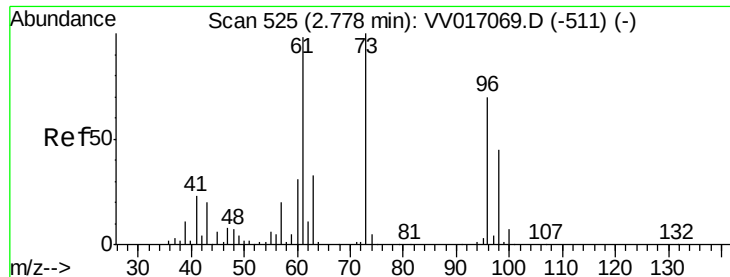
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#13
 Acetone
 Concen: 8.670 ug/L m
 RT: 2.20 min Scan# 346
 Delta R.T. 0.00 min
 Lab File: VV017080.D
 Acq: 24 Jun 2020 18:41

Tgt Ion	Ratio	Lower	Upper
43	100		
58	1.1	0.0	58.4





#18

trans-1,2-Dichloroethene

Concen: 2.362 ug/L

RT: 2.78 min Scan# 526

Delta R.T. 0.00 min

Lab File: VV017080.D

Acq: 24 Jun 2020 18:41

Instrument :

MSVOA_V

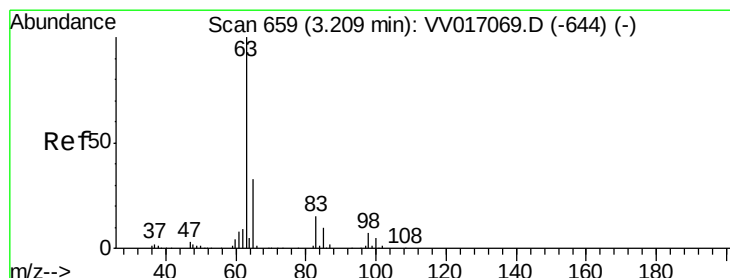
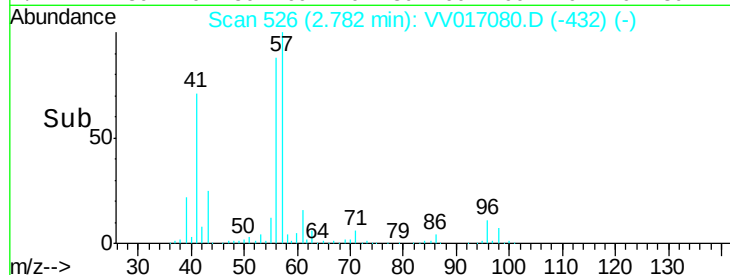
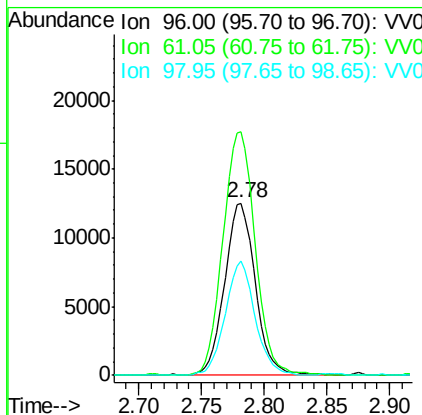
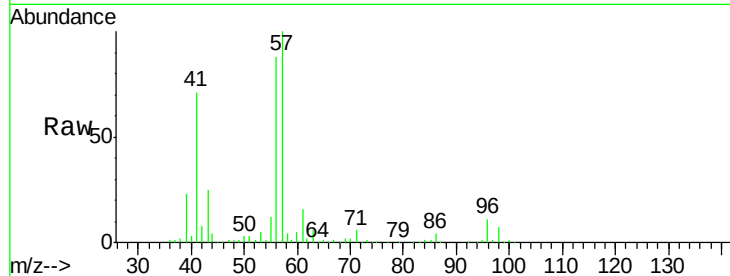
ClientSampleId :

BFXK7

Tot Ion:	96	Resp:	21380
Ion	Ratio	Lower	Upper
96	100		
61	141.6	102.3	189.9
98	66.2	44.7	82.9

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#19

1,1-Dichloroethane

Concen: 29.763 ug/L

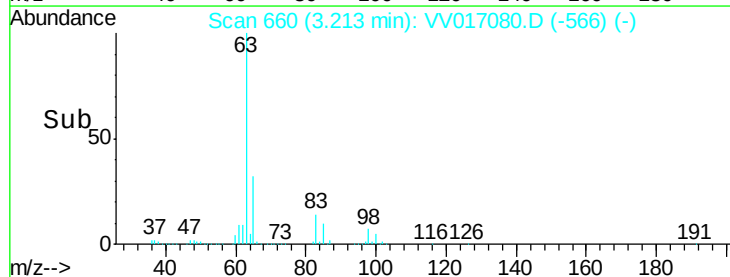
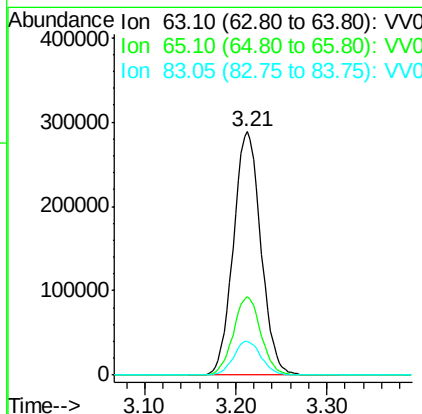
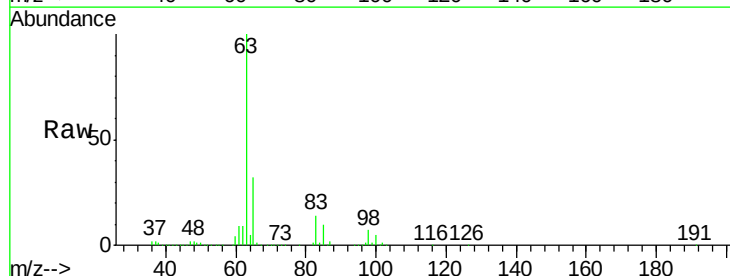
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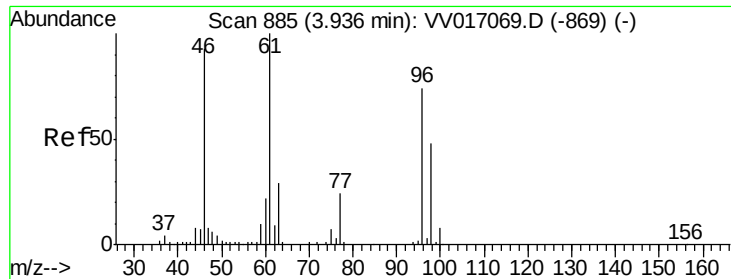
Delta R.T. 0.00 min

Lab File: VV017080.D

Acq: 24 Jun 2020 18:41

Tgt Ion:	63	Resp:	605222
Ion	Ratio	Lower	Upper
63	100		
65	32.3	21.8	40.4
83	13.8	9.7	17.9





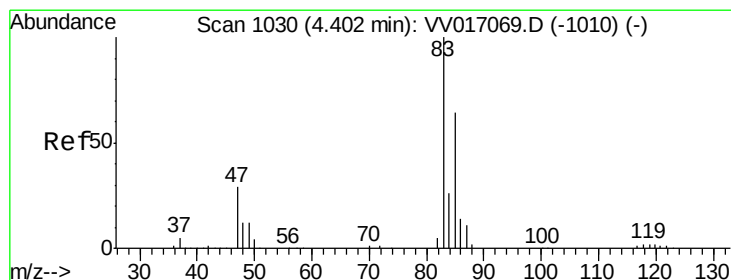
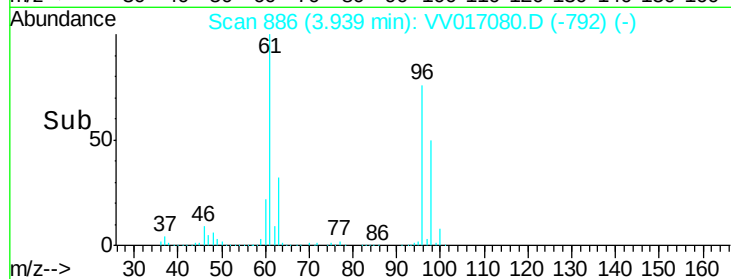
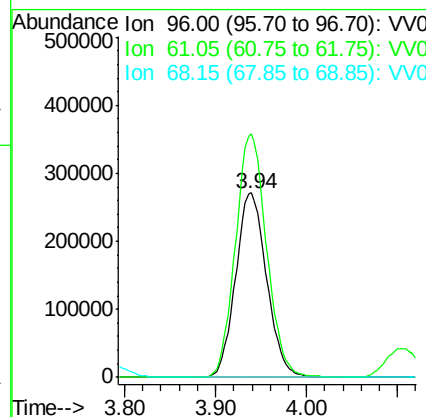
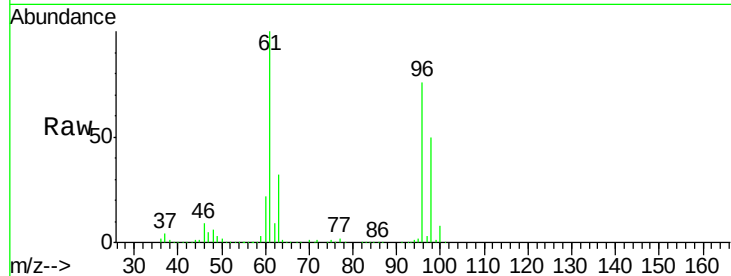
#22
 cis-1,2-Dichloroethene
 Concen: 51.899 ug/L
 RT: 3.94 min Scan# 886
 Delta R.T. 0.00 min
 Lab File: VV017080.D
 Acq: 24 Jun 2020 18:41

Instrument :
 MSVOA_V
 ClientSampleId :
 BFXK7

Tot Ion	Ion	Ratio	Resp	Lower	Upper
96	100				
61	131.8		91.0	169.0	
68	0.0		0.0	0.0#	

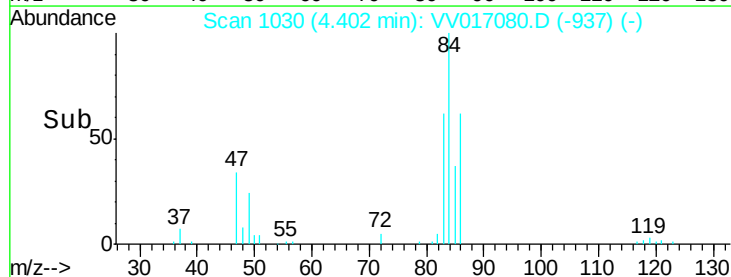
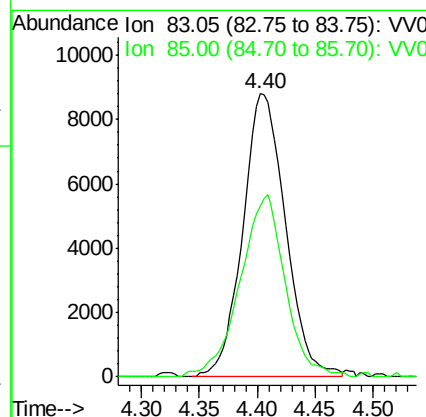
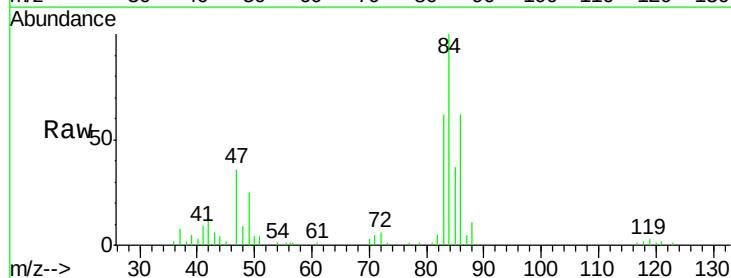
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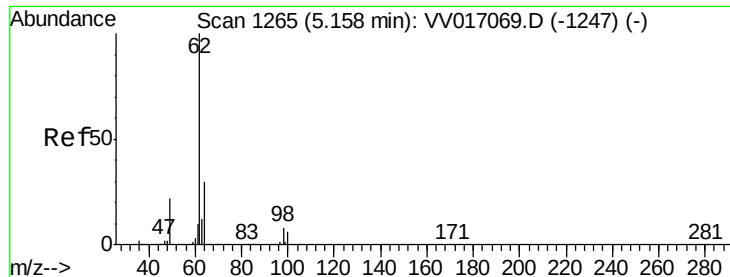
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#25
 Chloroform
 Concen: 1.016 ug/L
 RT: 4.40 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VV017080.D
 Acq: 24 Jun 2020 18:41

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
83	100				
85	60.1		44.2	82.2	





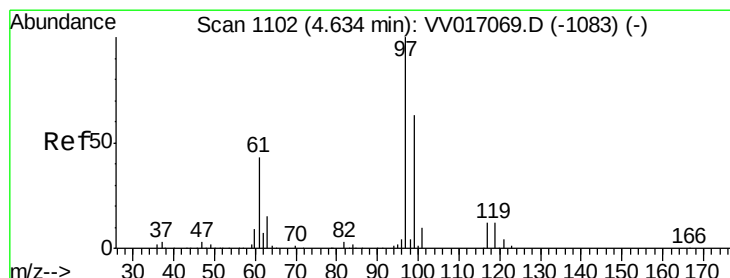
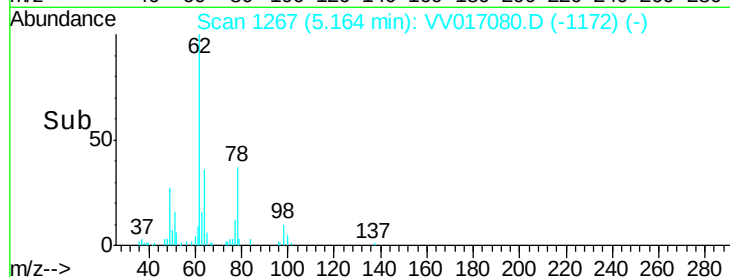
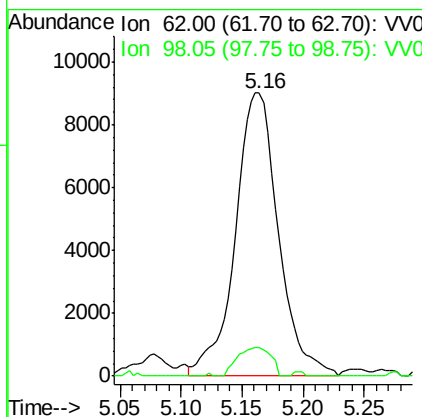
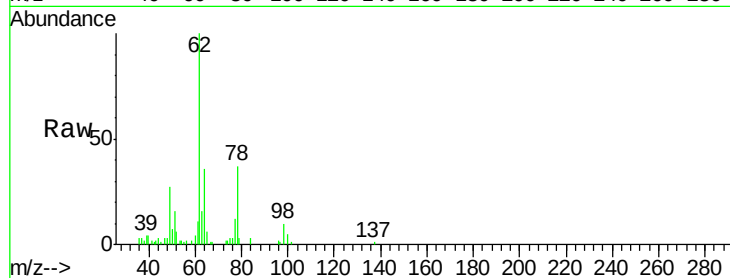
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 1,2-Dichloroethane
 Concen: 1.599 ug/L
 RT: 5.16 min Scan# 1267
 Delta R.T. 0.01 min
 Lab File: VV017080.D
 Acq: 24 Jun 2020 18:41

Instrument :
 MSVOA_V
 ClientSampled :
 BFXK7

Tot Ion	Ratio	Lower	Upper
62	100		
98	10.1	6.7	10.1#

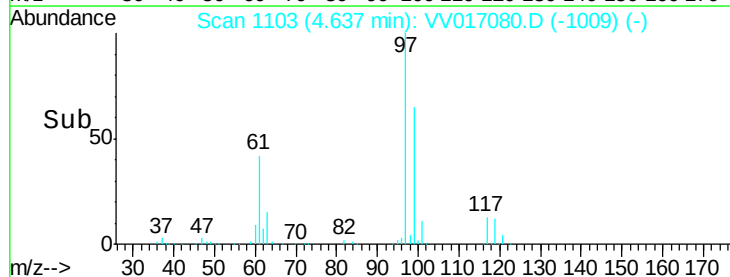
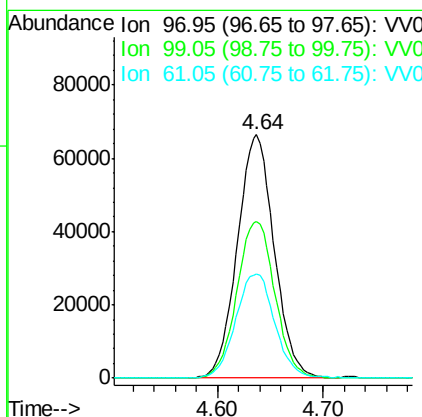
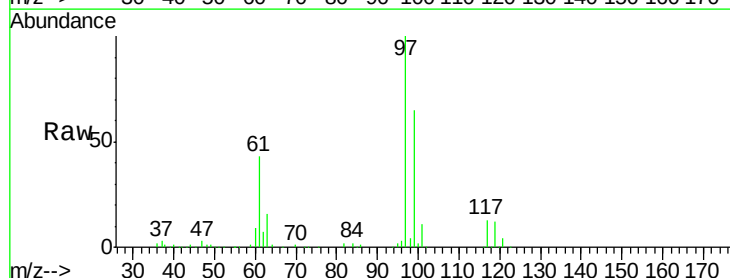
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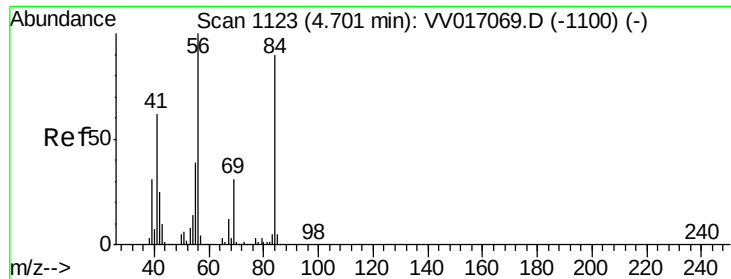
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#29
 1,1,1-Trichloroethane
 Concen: 7.687 ug/L
 RT: 4.64 min Scan# 1103
 Delta R.T. 0.00 min
 Lab File: VV017080.D
 Acq: 24 Jun 2020 18:41

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.6	50.3	75.5
61	44.7	36.0	54.0





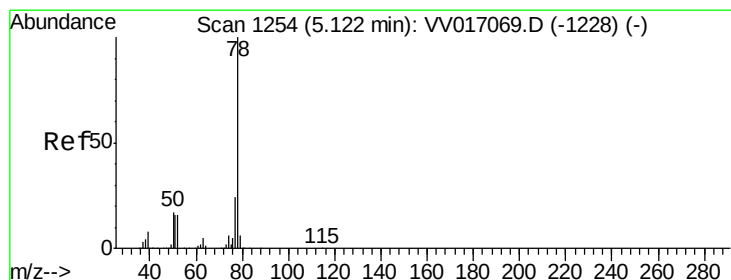
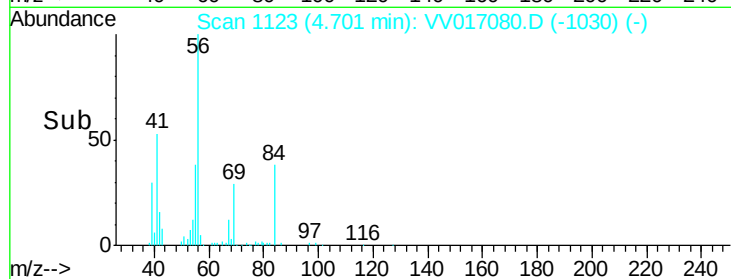
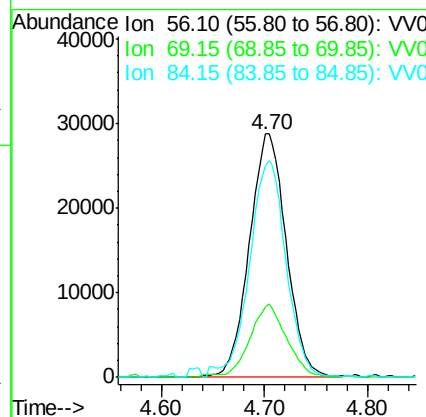
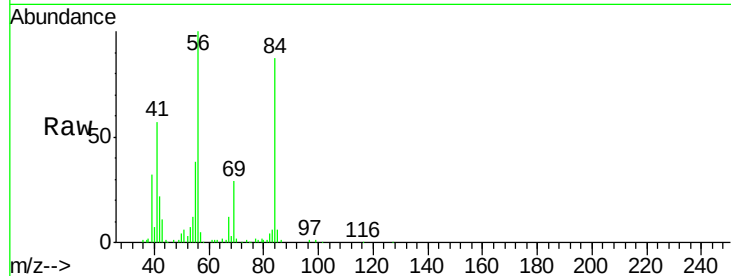
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Cyclohexane
Concen: 3.578 ug/L
RT: 4.70 min Scan# 1123
Delta R.T. 0.00 min
Lab File: VV017080.D
Acq: 24 Jun 2020 18:41

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BFXK7

Tot Ion	Ratio	Lower	Upper
56	100		
69	29.7	24.4	36.6
84	87.1	69.9	104.9

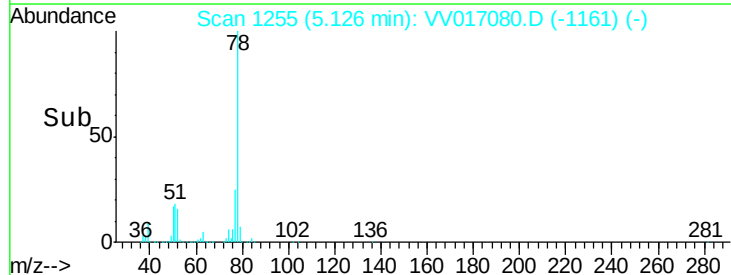
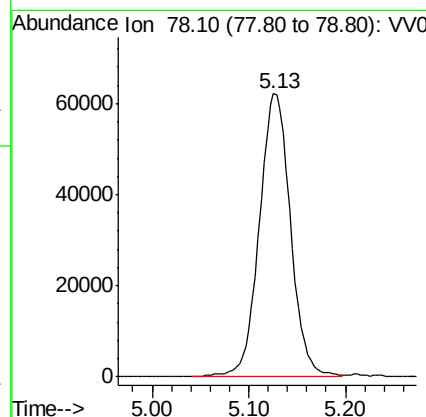
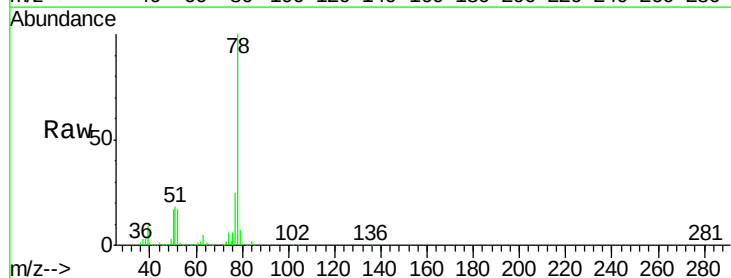
Manual Integrations
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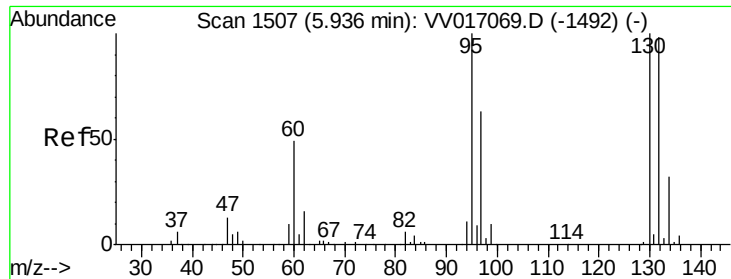
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#33
Benzene
Concen: 3.033 ug/L
RT: 5.13 min Scan# 1255
Delta R.T. 0.00 min
Lab File: VV017080.D
Acq: 24 Jun 2020 18:41

Tgt Ion: 78 Resp: 139194





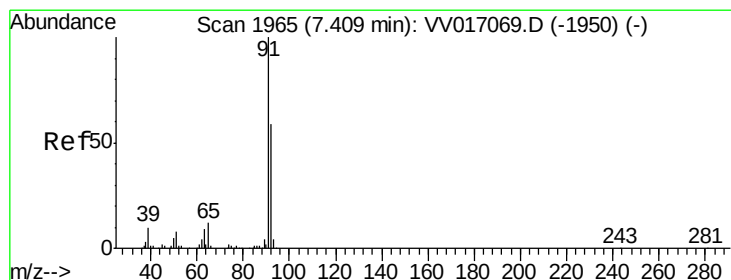
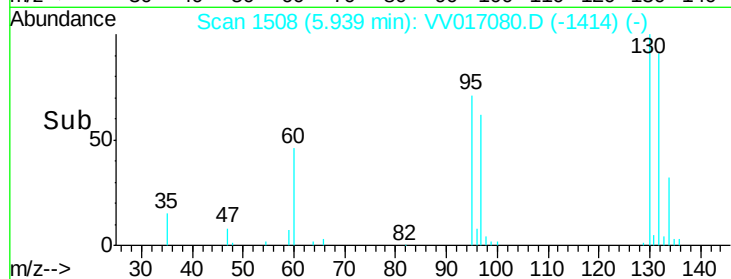
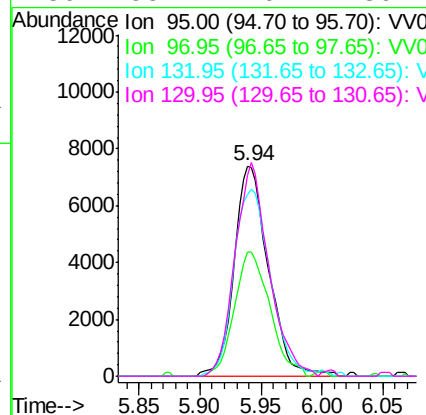
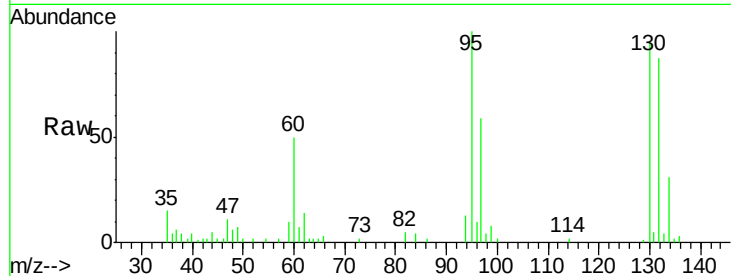
#34
 Trichloroethene
 Concen: 1.076 ug/L
 RT: 5.94 min Scan# 1508
 Delta R.T. 0.00 min
 Lab File: VV017080.D
 Acq: 24 Jun 2020 18:41

Instrument :
 MSVOA_V
 ClientSampled :
 BFXK7

Tot Ion	Ion	Ratio	Resp	Lower	Upper
95	100		14455		
97	58.8	45.3	84.1		
132	86.6	68.8	127.8		
130	95.4	70.2	130.4		

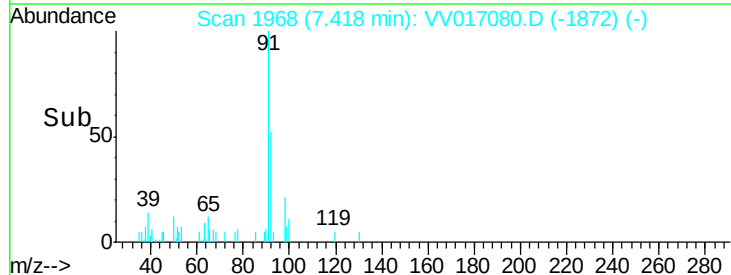
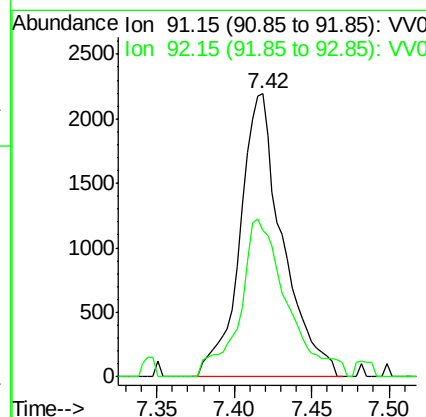
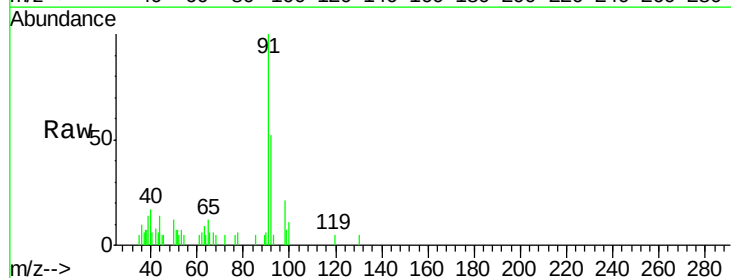
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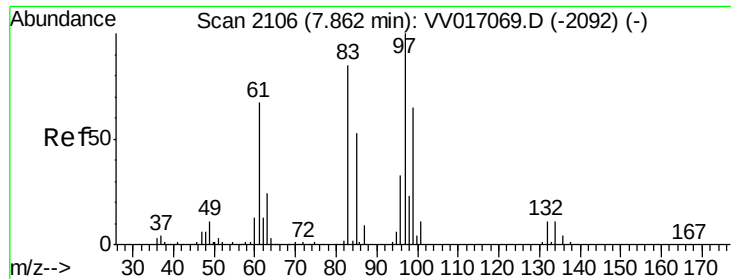
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#42
 Toluene
 Concen: 0.079 ug/L
 RT: 7.42 min Scan# 1968
 Delta R.T. 0.01 min
 Lab File: VV017080.D
 Acq: 24 Jun 2020 18:41

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		4207		
92	51.5	39.9	74.1		





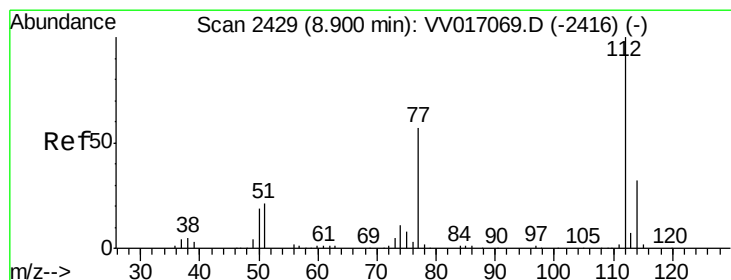
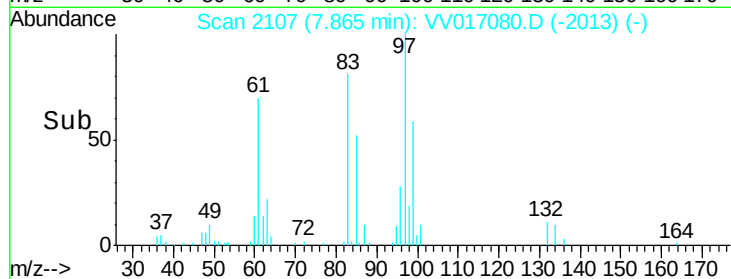
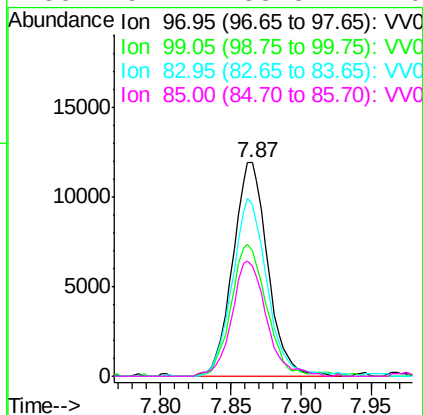
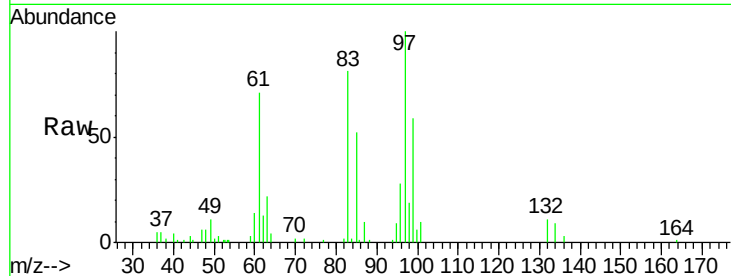
#47
 1,1,2-Trichloroethane
 Concen: 2.559 ug/L
 RT: 7.87 min Scan# 2107
 Delta R.T. 0.00 min
 Lab File: VV017080.D
 Acq: 24 Jun 2020 18:41

Instrument :
 MSVOA_V
 ClientSampleId :
 BFXK7

Tot Ion:	97	Resp:	20617
Ion	Ratio	Lower	Upper
97	100		
99	58.8	43.6	81.0
83	80.5	57.4	106.6
85	51.7	38.8	72.0

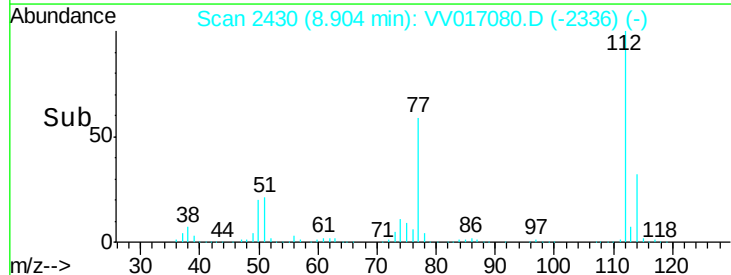
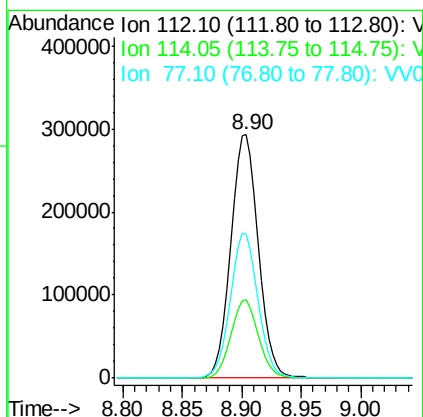
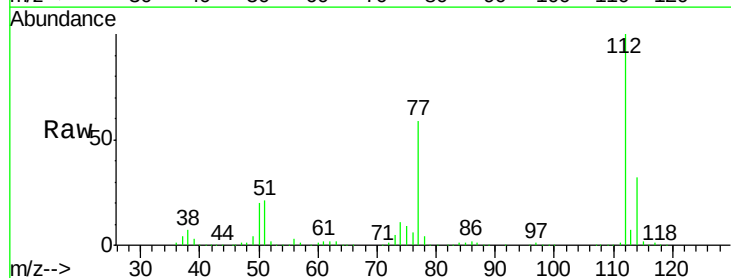
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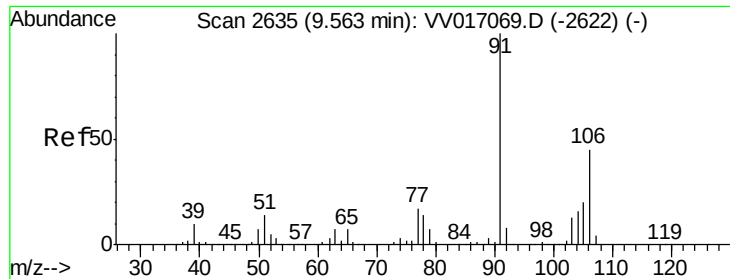
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#53
 Chlorobenzene
 Concen: 14.139 ug/L
 RT: 8.90 min Scan# 2430
 Delta R.T. 0.00 min
 Lab File: VV017080.D
 Acq: 24 Jun 2020 18:41

Tgt Ion:	112	Resp:	470292
Ion	Ratio	Lower	Upper
112	100		
114	32.0	22.0	41.0
77	58.9	46.0	69.0





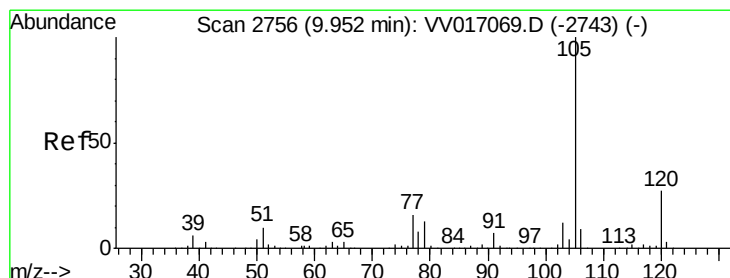
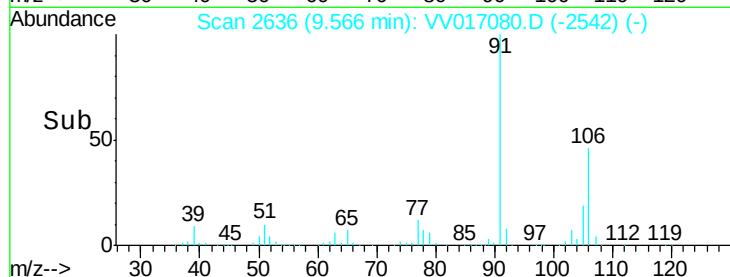
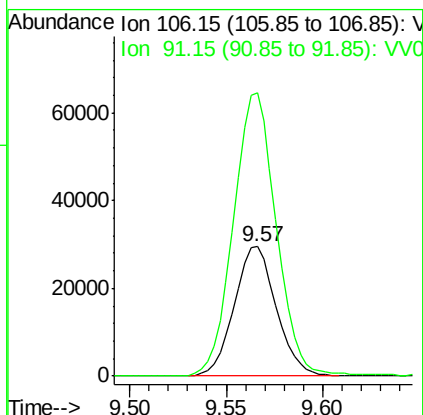
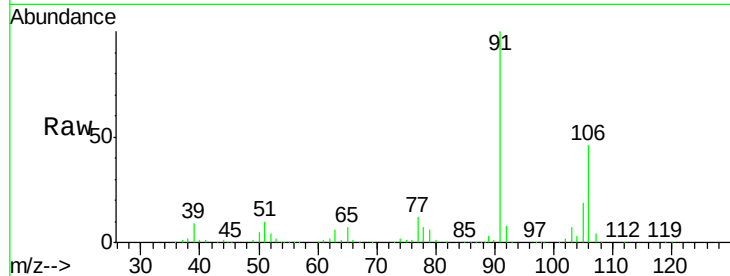
#56
o-xylene
Concen: 2.145 ug/L
RT: 9.57 min Scan# 2636
Delta R.T. 0.00 min
Lab File: VV017080.D
Acq: 24 Jun 2020 18:41

Instrument :
MSVOA_V
ClientSampled :
BFXK7

Tot Ion:106 Resp: 44717
Ion Ratio Lower Upper
106 100
91 218.3 153.6 285.2

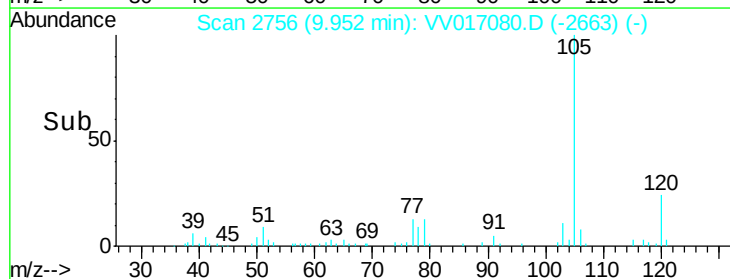
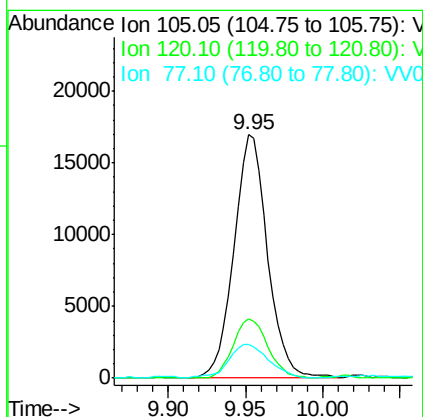
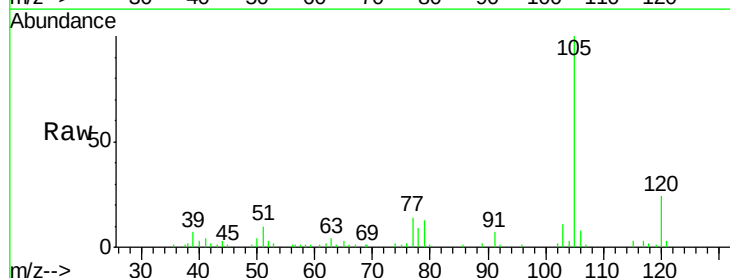
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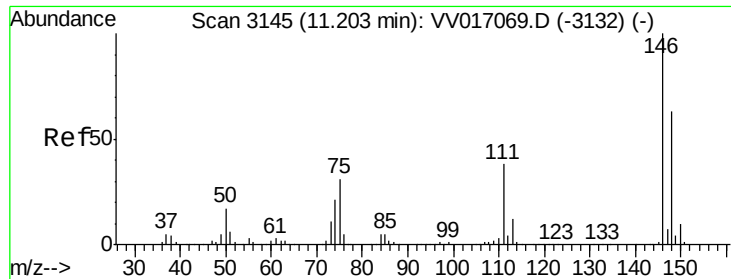
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#58
Isopropylbenzene
Concen: 0.445 ug/L
RT: 9.95 min Scan# 2756
Delta R.T. 0.00 min
Lab File: VV017080.D
Acq: 24 Jun 2020 18:41

Tgt Ion:105 Resp: 25503
Ion Ratio Lower Upper
105 100
120 25.0 21.2 31.8
77 16.6 13.0 19.4





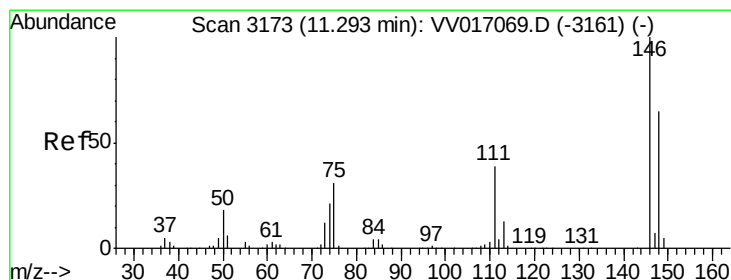
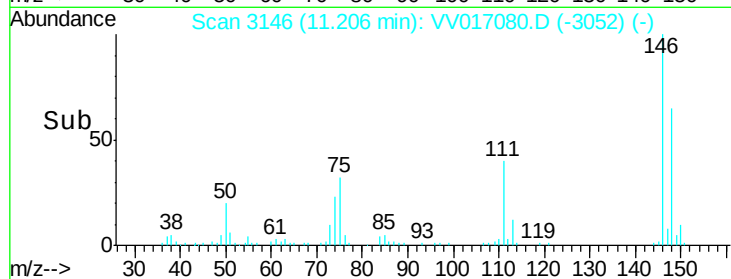
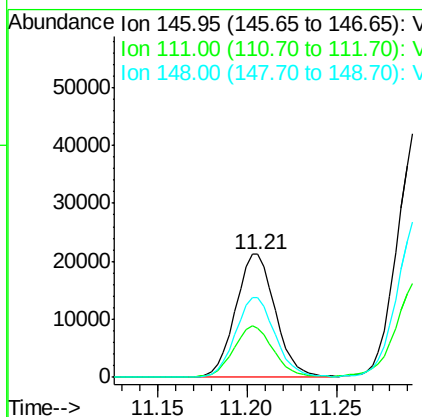
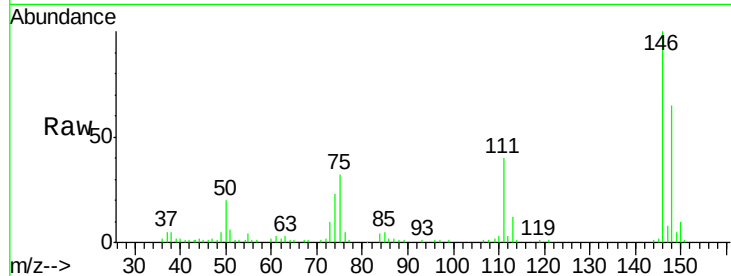
#63
 1,3-Dichlorobenzene
 Concen: 1.302 ug/L
 RT: 11.21 min Scan# 3146
 Delta R.T. 0.00 min
 Lab File: VV017080.D
 Acq: 24 Jun 2020 18:41

Instrument :
 MSVOA_V
 ClientSampled :
 BFXK7

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.8	29.2	54.2
148	64.8	44.9	83.5

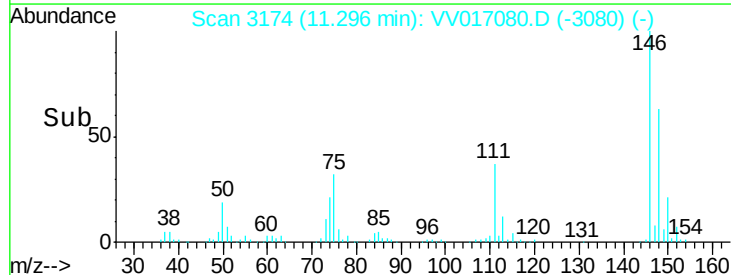
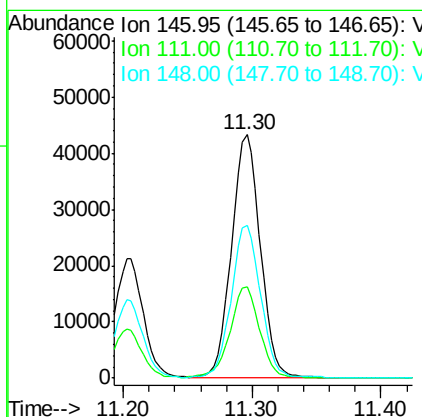
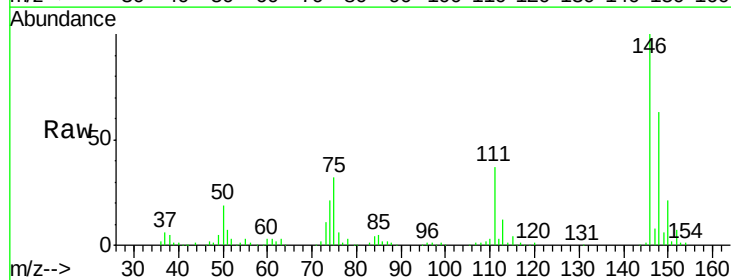
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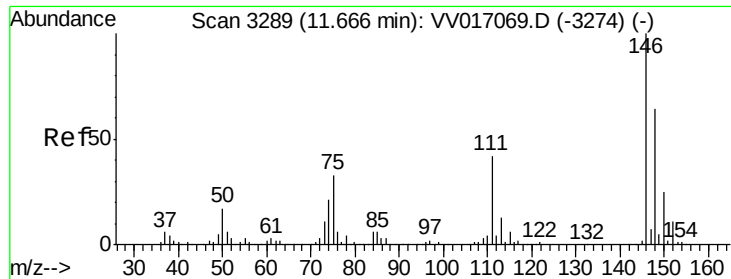
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#64
 1,4-Dichlorobenzene
 Concen: 2.606 ug/L
 RT: 11.30 min Scan# 3174
 Delta R.T. 0.00 min
 Lab File: VV017080.D
 Acq: 24 Jun 2020 18:41

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.3	27.4	50.8
148	62.7	44.3	82.3





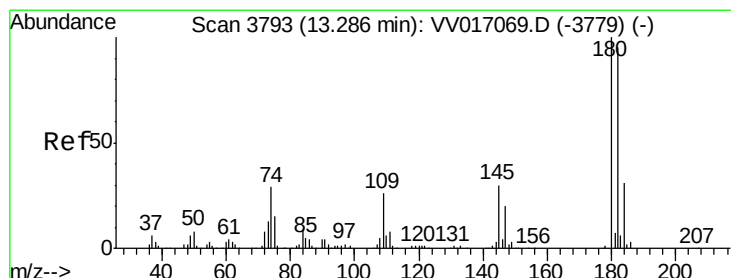
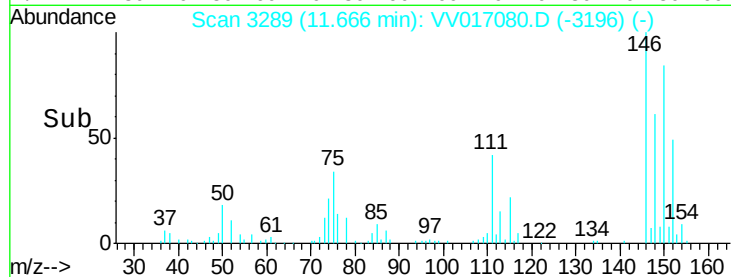
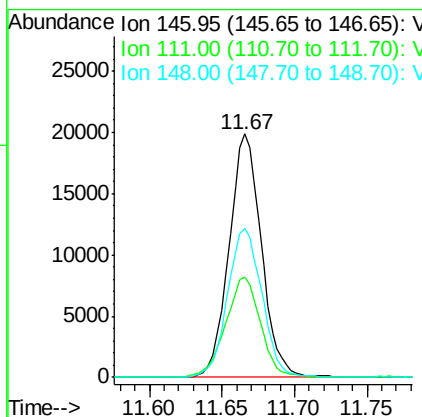
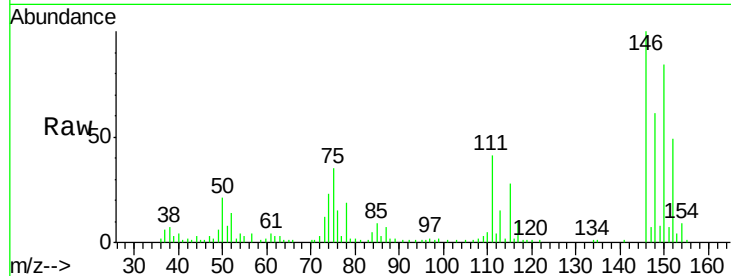
#66
 1,2-Dichlorobenzene
 Concen: 1.340 ug/L
 RT: 11.67 min Scan# 3289
 Delta R.T. 0.00 min
 Lab File: VV017080.D
 Acq: 24 Jun 2020 18:41

Instrument :
 MSVOA_V
 ClientSampleId :
 BFXK7

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.3	34.4	51.6
148	61.2	49.9	74.9

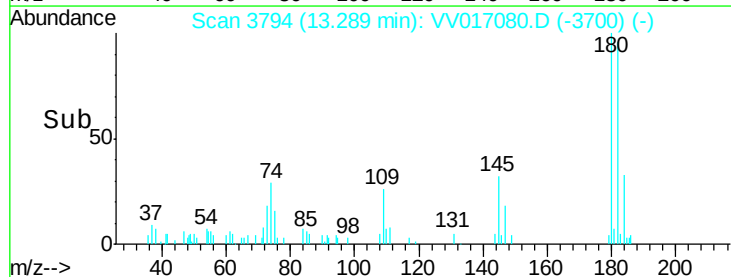
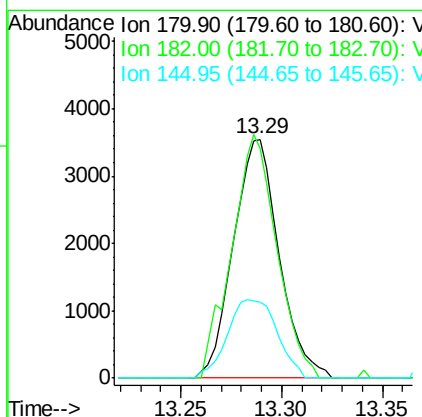
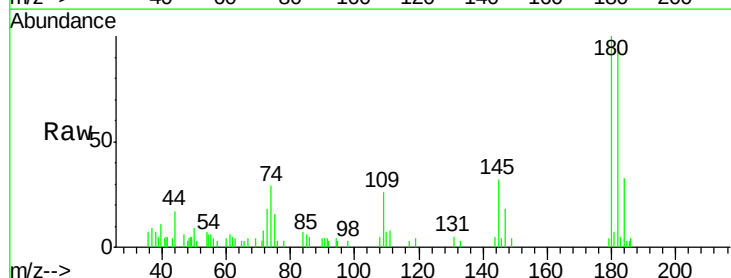
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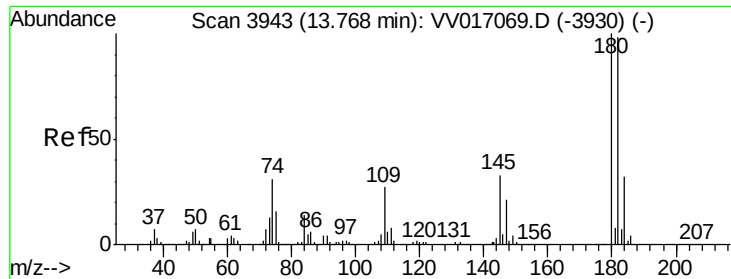
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#69
 1,2,4-trichlorobenzene
 Concen: 0.337 ug/L
 RT: 13.29 min Scan# 3794
 Delta R.T. 0.00 min
 Lab File: VV017080.D
 Acq: 24 Jun 2020 18:41

Tgt Ion	Ratio	Lower	Upper
180	100		
182	100.3	76.6	114.8
145	35.9	25.0	37.6





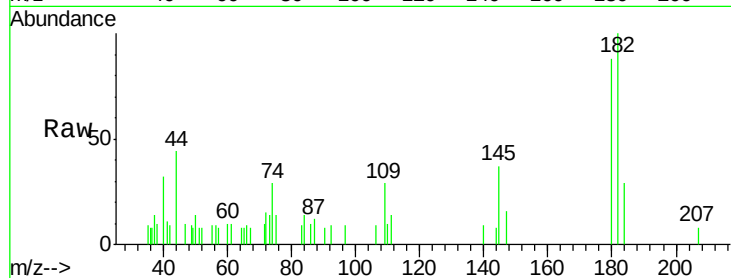
#71
 1,2,3-Trichlorobenzene
 Concen: 0.152 ug/L
 RT: 13.77 min Scan# 3944
 Delta R.T. 0.00 min
 Lab File: VV017080.D
 Acq: 24 Jun 2020 18:41

Instrument :
 MSVOA_V
 ClientSampleId :
 BFXK7

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.9	77.4	116.0
145	37.5	25.9	38.9

Manual Integrations
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Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 181.90 (181.60 to 182.60): V
 Ion 144.95 (144.65 to 145.65): V

