

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR101618\
 Data File : VR026108.D
 Acq On : 16 Oct 2018 19:19
 Operator : SY/MD
 Sample : J5464-03
 Misc : 25mL/MSVOA R/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_R
 ClientSampleId :
 C0JD8

Quant Time: Oct 17 09:37:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR101518WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Oct 17 08:49:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.46	114	575208	5.00	ug/L	0.00
28) Chlorobenzene-d5	11.29	117	493733	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.23	152	166310	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.15	65	277442	5.51	ug/L	-0.01
Spiked Amount	5.000	Range	40 - 130	Recovery	=	110.20%
7) Chloroethane-d5	2.62	69	219718	5.08	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	101.60%
11) 1,1-Dichloroethene-d2	3.61	63	652053	5.27	ug/L	-0.01
Spiked Amount	5.000	Range	60 - 125	Recovery	=	105.40%
20) 2-Butanone-d5	6.59	46	216924	52.49	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	104.98%
24) Chloroform-d	7.20	84	364505	4.56	ug/L	-0.01
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.20%
26) 1,2-Dichloroethane-d4	7.90	65	152990	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.00%
32) Benzene-d6	7.85	84	742034	4.68	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.60%
36) 1,2-Dichloropropane-d6	8.89	67	203415	4.96	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.20%
41) Toluene-d8	9.97	98	696106	4.65	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.00%
43) trans-1,3-Dichloropropene-	10.24	79	46101	4.29	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.80%
46) 2-Hexanone-d5	10.59	63	177913	57.35	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	114.70%
57) 1,1,2,2-Tetrachloroethane-	12.36	84	75763	4.71	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	94.20%
64) 1,2-Dichlorobenzene-d4	13.52	152	148477	5.65	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	113.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	2.16	62	1144205	18.720	ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	3.68	101	2656133	50.491	ug/L	100
12) 1,1-Dichloroethene	3.62	96	320781	5.735	ug/L	93
13) Acetone	3.69	43	48228	11.288	ug/L	75
17) Methyl tert-butyl Ether	4.89	73	28718	0.566	ug/L #	76
18) trans-1,2-Dichloroethene	4.89	96	48291	1.142	ug/L	97
19) 1,1-Dichloroethane	5.69	63	71365	0.899	ug/L	99
22) cis-1,2-Dichloroethene	6.67	96	9969297	249.147	ug/L #	76
27) 1,2-Dichloroethane	7.99	62	6179	0.163	ug/L	97
29) 1,1,1-Trichloroethane	7.43	97	7390	0.110	ug/L	93
34) Trichloroethene	8.71	95	10637508	224.335	ug/L	85
45) 1,1,2-Trichloroethane	10.45	97	8487	0.515	ug/L	90
47) Tetrachloroethene	10.52	164	8998563	265.751	ug/L	91
51) Chlorobenzene	11.32	112	95550	0.883	ug/L	97
62) 1,3-Dichlorobenzene	13.16	146	17678	0.320	ug/L	96
63) 1,4-Dichlorobenzene	13.24	146	242321	4.235	ug/L	96
65) 1,2-Dichlorobenzene	13.53	146	1332721	30.055	ug/L	99

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QLast Update : Wed Oct 17 08:49:24 2018
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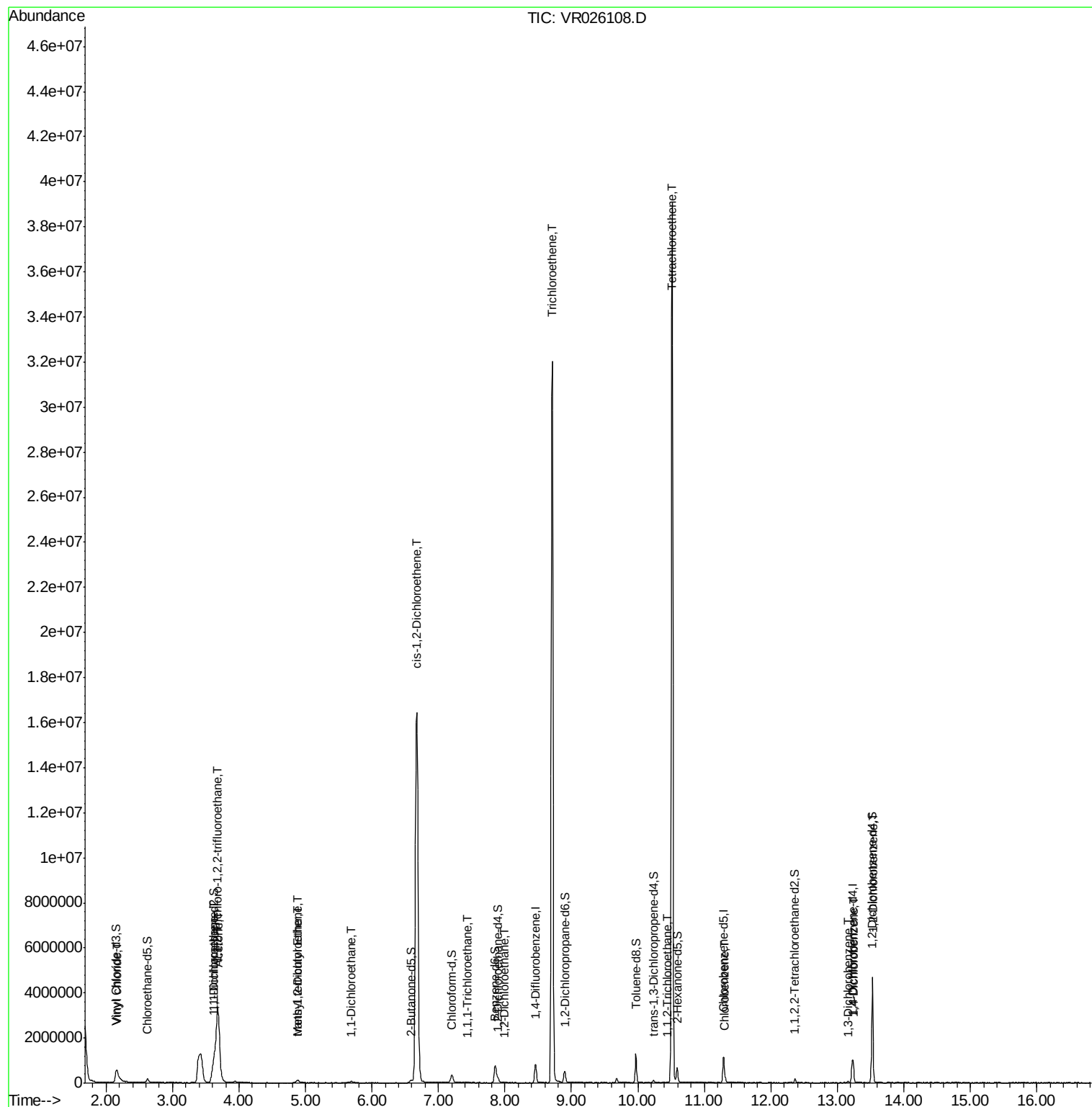
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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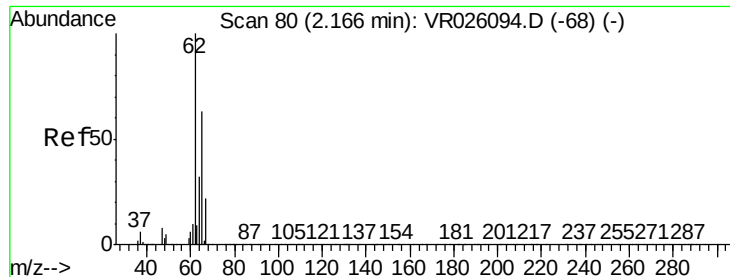
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 18.720 ug/L

RT: 2.16 min Scan# 79

Delta R.T. -0.01 min

Lab File: VR026108.D

Acq: 16 Oct 2018 19:19

Instrument :

MSVOA_R

ClientSampleId :

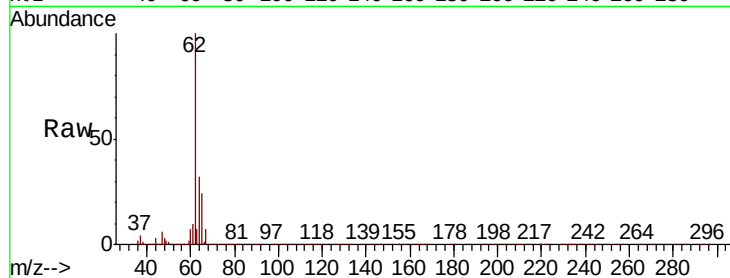
C0JD8

Tot Ion: 62 Resp: 1144205

Ion Ratio Lower Upper

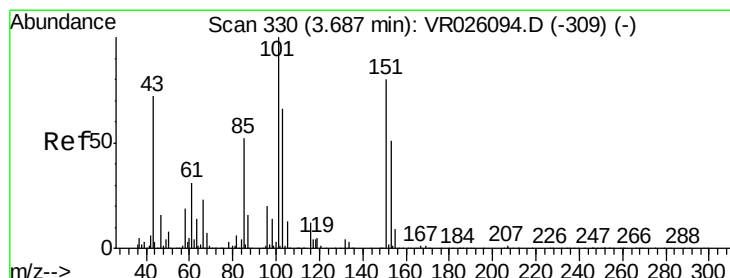
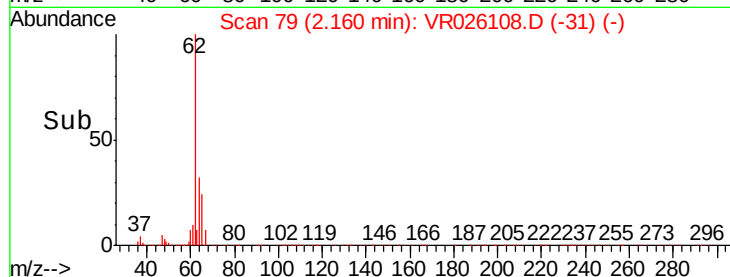
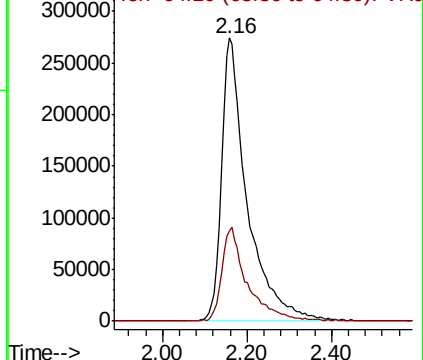
62 100

64 32.0 23.9 44.3



Abundance Ion 62.00 (61.70 to 62.70): VR0

Ion 64.10 (63.80 to 64.80): VR0



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 50.491 ug/L

RT: 3.68 min Scan# 329

Delta R.T. -0.01 min

Lab File: VR026108.D

Acq: 16 Oct 2018 19:19

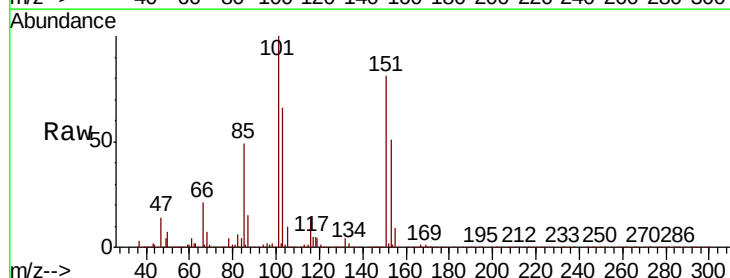
Tgt Ion: 101 Resp: 2656133

Ion Ratio Lower Upper

101 100

85 47.2 37.8 56.8

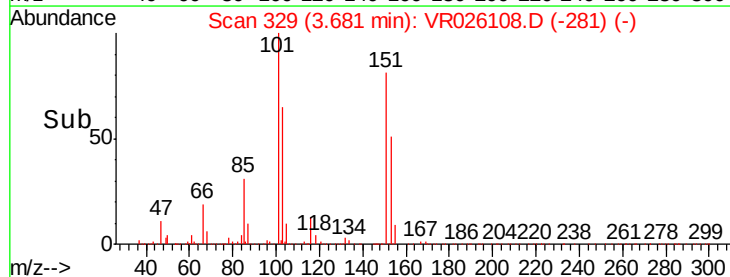
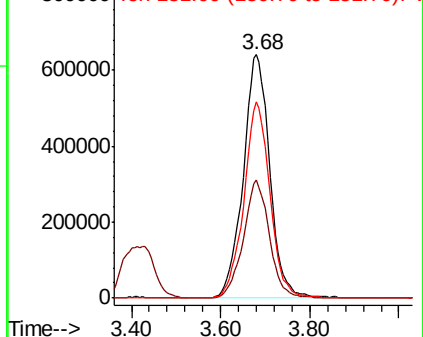
151 79.3 63.2 94.8

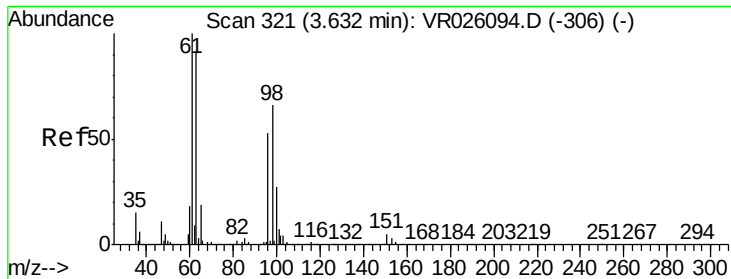


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VR0

Ion 151.00 (150.70 to 151.70): V

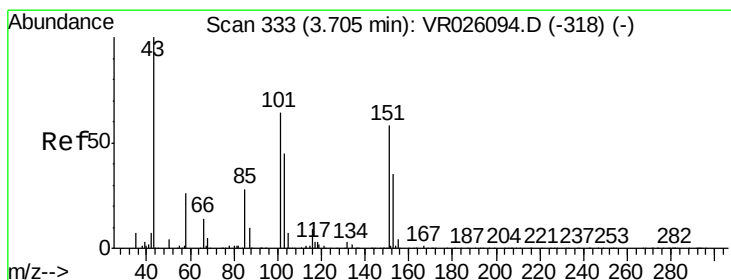
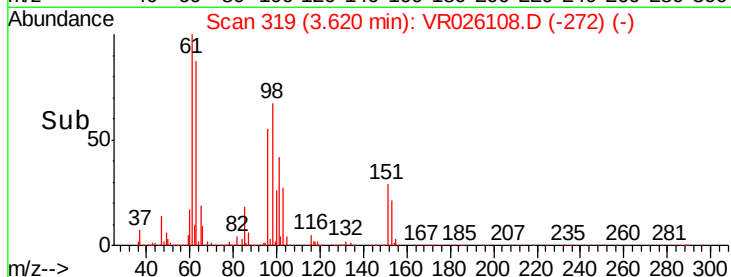
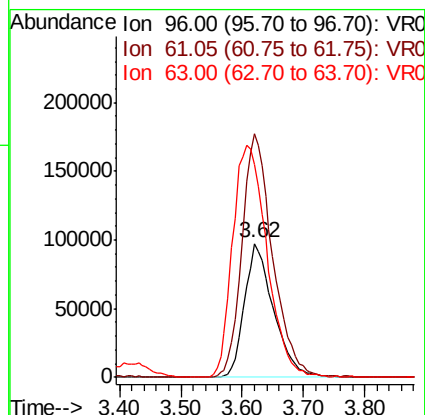
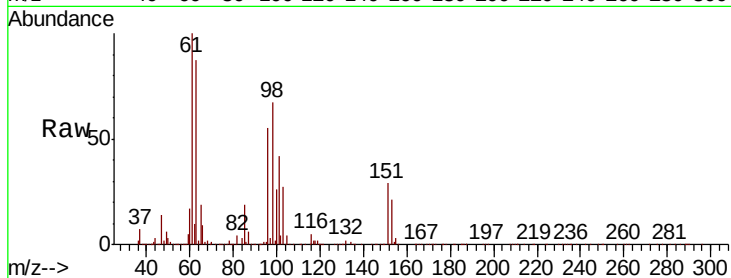




#12
1,1-Dichloroethene
Concen: 5.735 ug/L
RT: 3.62 min Scan# 319
Delta R.T. -0.01 min
Lab File: VR026108.D
Acq: 16 Oct 2018 19:19

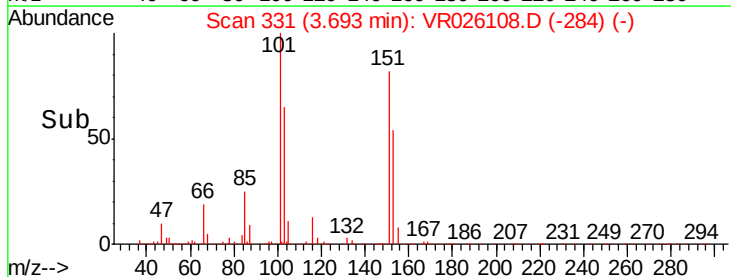
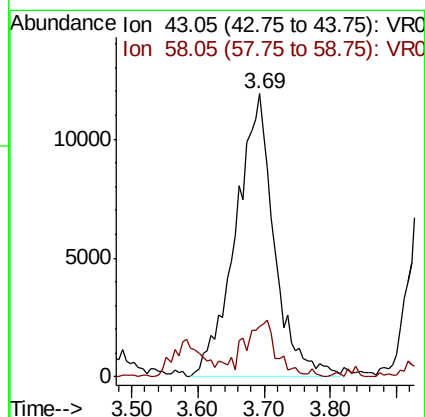
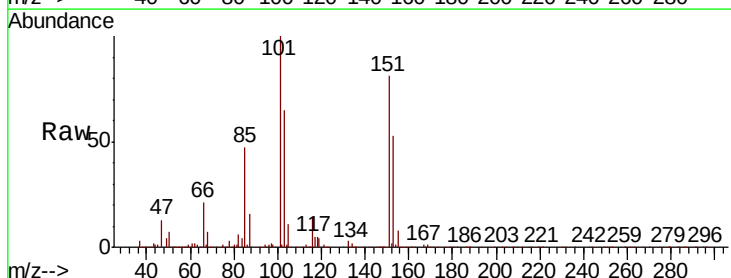
Instrument :
MSVOA_R
ClientSampleId :
C0JD8

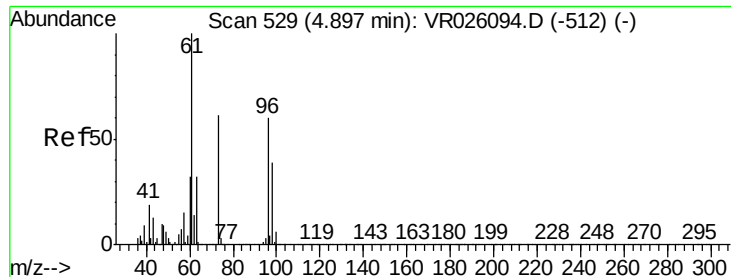
Tot Ion: 96 Resp: 320781
Ion Ratio Lower Upper
96 100
61 181.5 126.7 235.3
63 158.3 125.0 232.2



#13
Acetone
Concen: 11.288 ug/L
RT: 3.69 min Scan# 331
Delta R.T. -0.01 min
Lab File: VR026108.D
Acq: 16 Oct 2018 19:19

Tgt Ion: 43 Resp: 48228
Ion Ratio Lower Upper
43 100
58 14.5 0.0 55.4

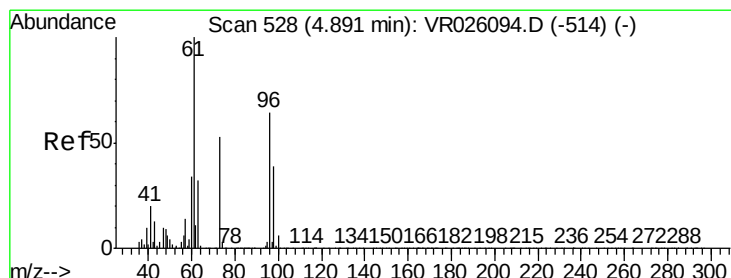
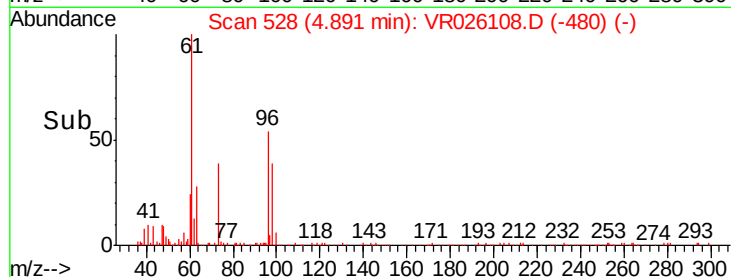
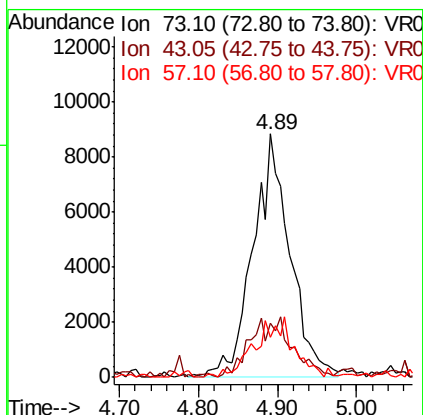
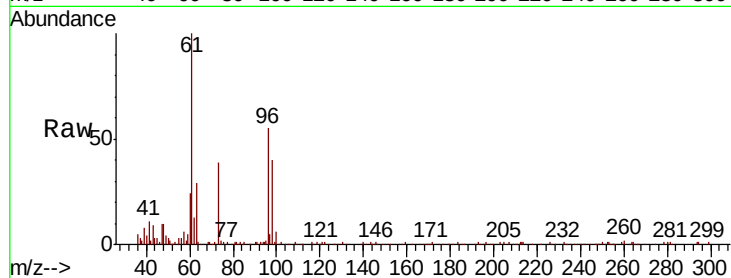




#17
Methyl tert-butyl Ether
Concen: 0.566 ug/L
RT: 4.89 min Scan# 528
Delta R.T. -0.01 min
Lab File: VR026108.D
Acq: 16 Oct 2018 19:19

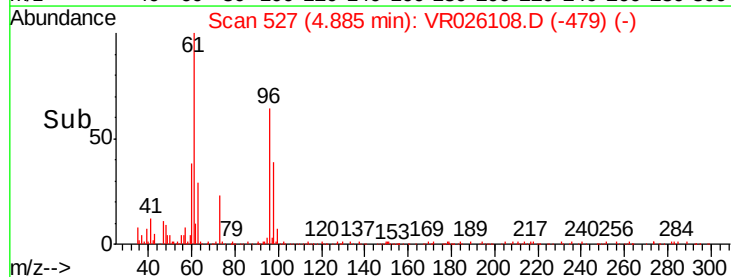
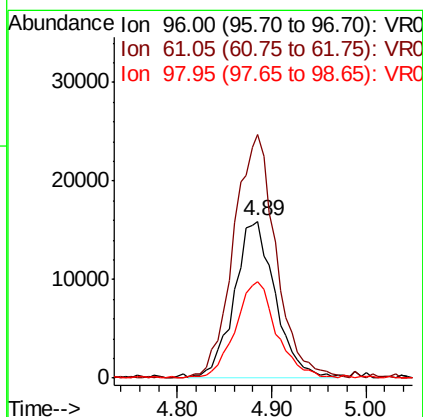
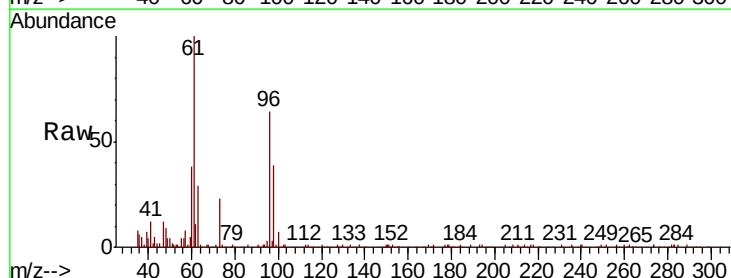
Instrument :
MSVOA_R
ClientSampleId :
C0JD8

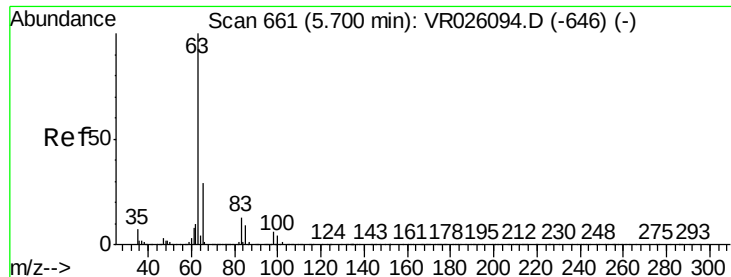
Tot Ion	Ratio	Lower	Upper
73	100		
43	12.3	20.1	30.1#
57	12.4	19.0	28.4#



#18
trans-1,2-Dichloroethene
Concen: 1.142 ug/L
RT: 4.89 min Scan# 527
Delta R.T. -0.01 min
Lab File: VR026108.D
Acq: 16 Oct 2018 19:19

Tgt Ion	Ratio	Lower	Upper
96	100		
61	155.1	111.4	206.8
98	61.0	41.4	77.0

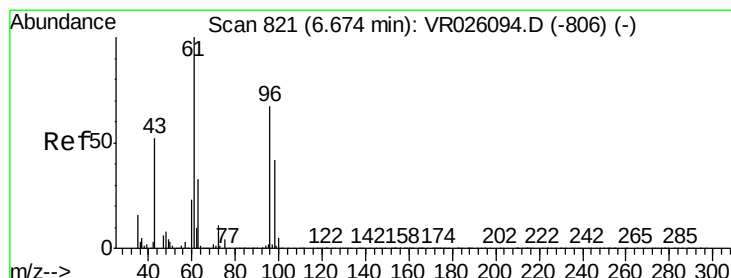
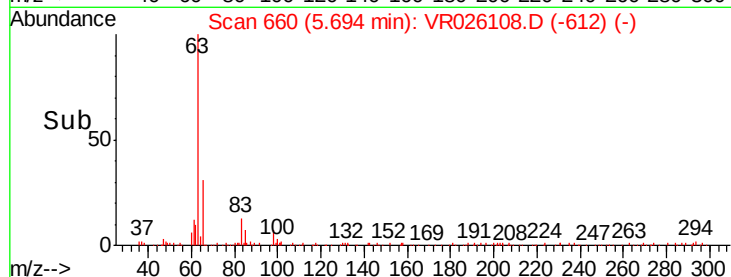
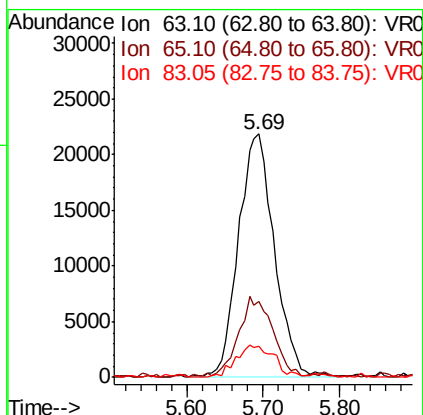
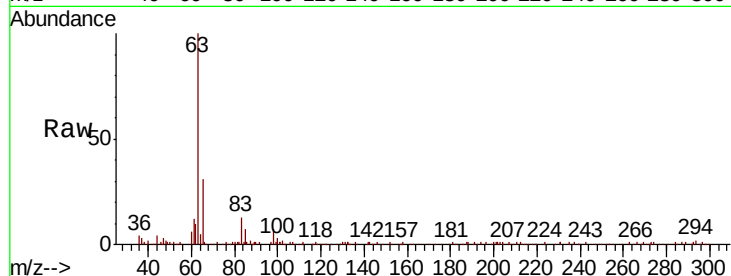




#19
 1,1-Dichloroethane
 Concen: 0.899 ug/L
 RT: 5.69 min Scan# 660
 Delta R.T. -0.01 min
 Lab File: VR026108.D
 Acq: 16 Oct 2018 19:19

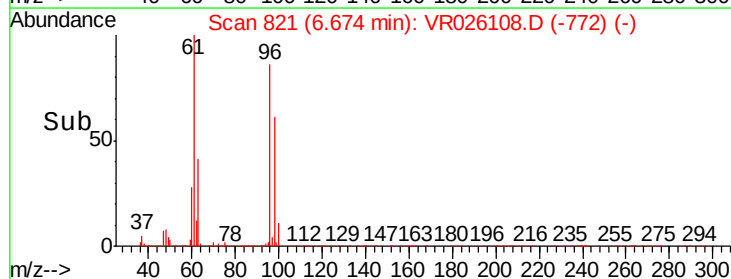
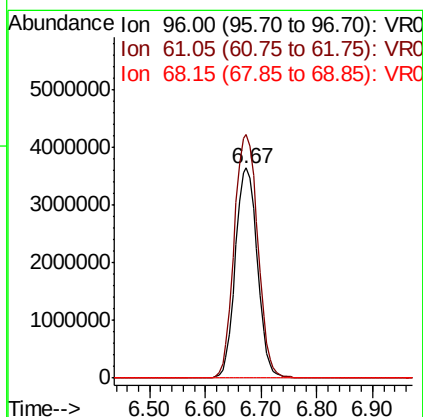
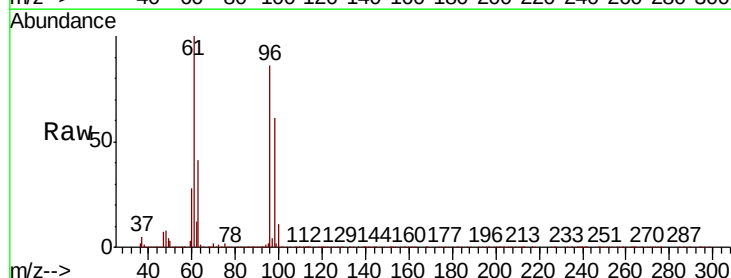
Instrument :
 MSVOA_R
 ClientSampleId :
 C0JD8

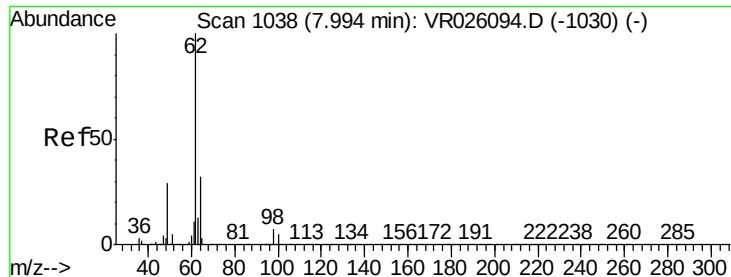
Tot Ion	Ratio	Lower	Upper
63	100		
65	31.0	21.2	39.4
83	12.6	9.2	17.2



#22
 cis-1,2-Dichloroethene
 Concen: 249.147 ug/L
 RT: 6.67 min Scan# 821
 Delta R.T. 0.00 min
 Lab File: VR026108.D
 Acq: 16 Oct 2018 19:19

Tgt Ion	Ratio	Lower	Upper
96	100		
61	115.9	101.8	189.0
68	0.0	0.1	0.3#

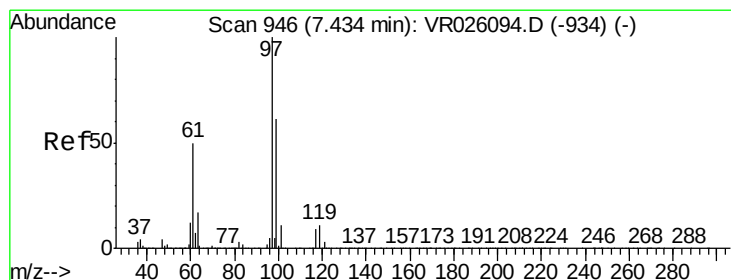
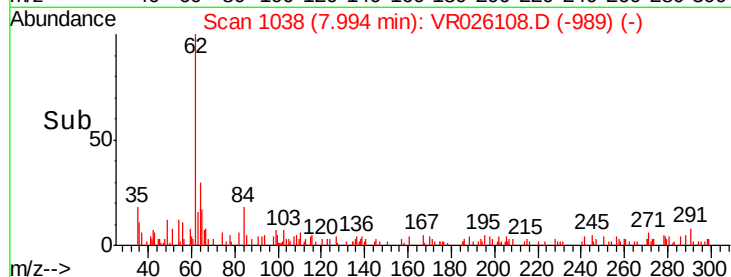
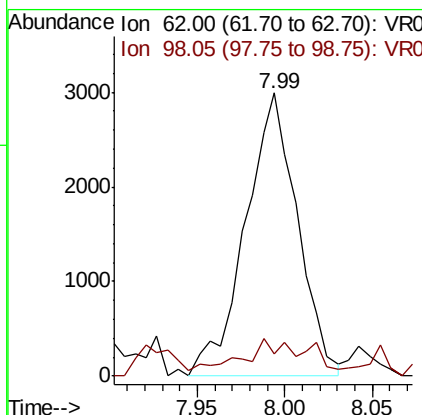
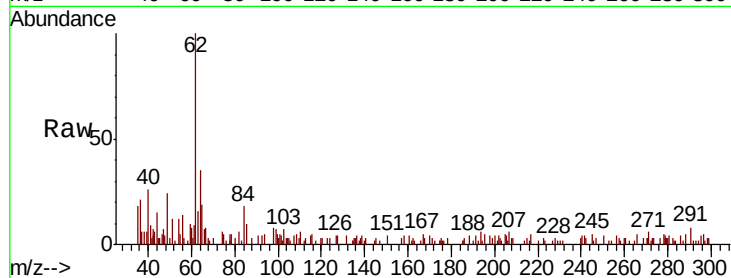




#27
 1,2-Dichloroethane
 Concen: 0.163 ug/L
 RT: 7.99 min Scan# 1038
 Delta R.T. 0.00 min
 Lab File: VR026108.D
 Acq: 16 Oct 2018 19:19

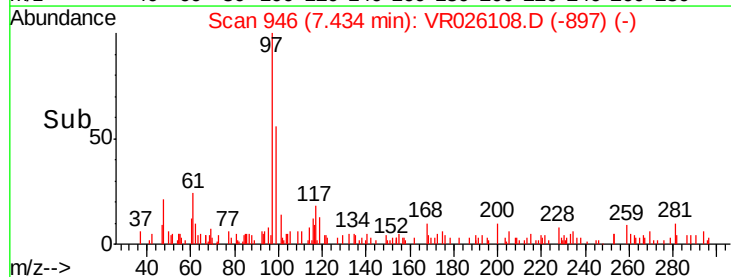
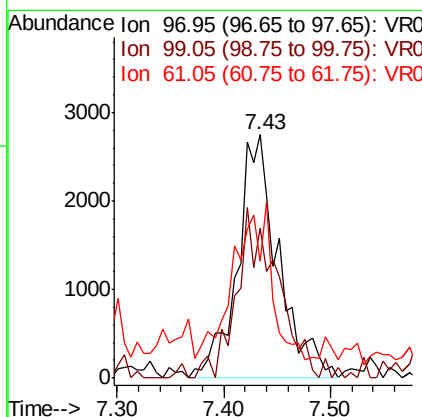
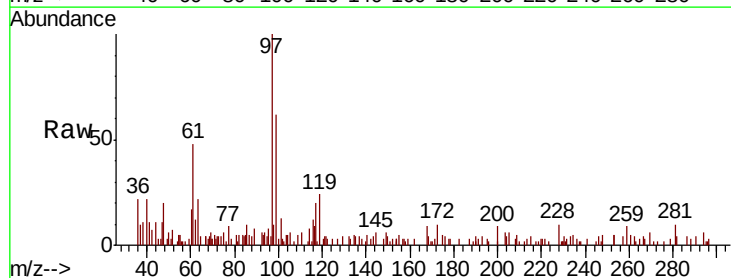
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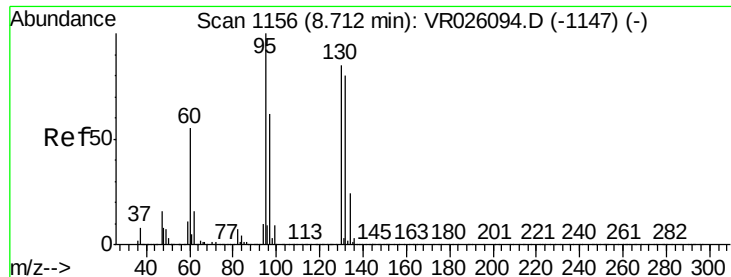
Tot Ion: 62 Resp: 6179
 Ion Ratio Lower Upper
 62 100
 98 8.1 5.6 8.4



#29
 1,1,1-Trichloroethane
 Concen: 0.110 ug/L
 RT: 7.43 min Scan# 946
 Delta R.T. 0.00 min
 Lab File: VR026108.D
 Acq: 16 Oct 2018 19:19

Tgt Ion: 97 Resp: 7390
 Ion Ratio Lower Upper
 97 100
 99 69.4 51.1 76.7
 61 58.3 42.1 63.1

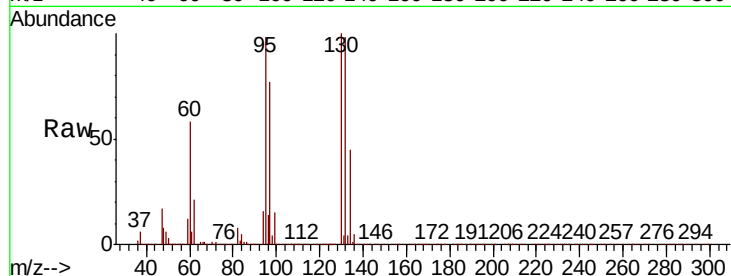




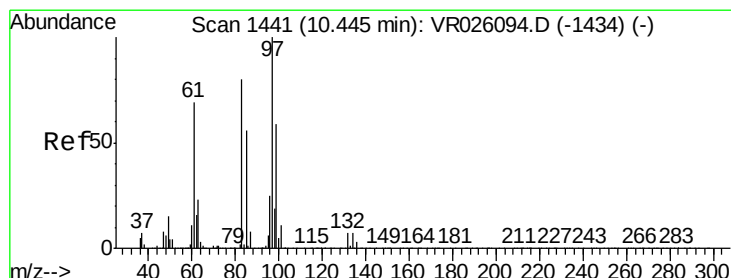
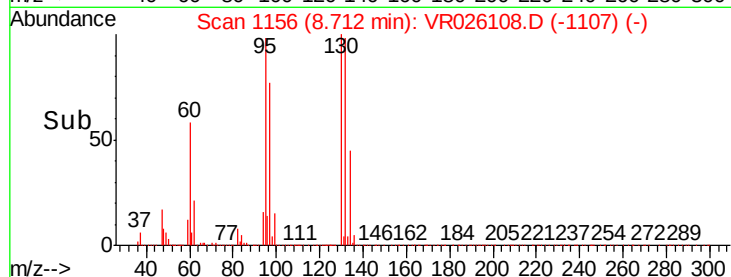
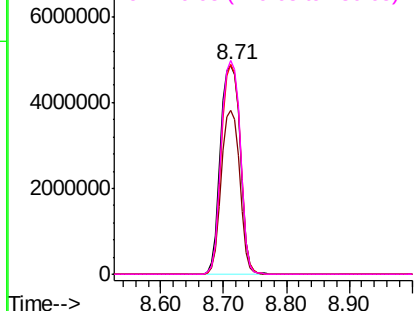
#34
 Trichloroethene
 Concen: 224.335 ug/L
 RT: 8.71 min Scan# 1156
 Delta R.T. 0.00 min
 Lab File: VR026108.D
 Acq: 16 Oct 2018 19:19

Instrument :
 MSVOA_R
 ClientSampleId :
 C0JD8

Tot Ion: 95 Resp:10637508
 Ion Ratio Lower Upper
 95 100
 97 78.5 45.7 84.9
 132 100.4 58.3 108.3
 130 102.1 64.0 119.0



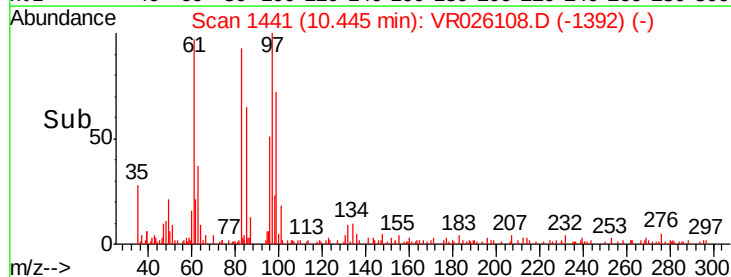
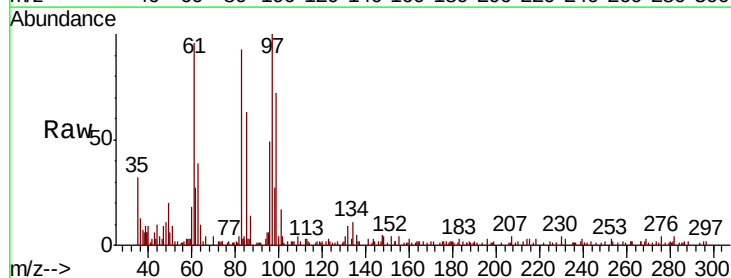
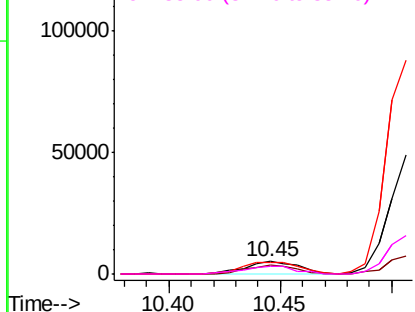
Abundance Ion 95.00 (94.70 to 95.70): VR0
 Ion 96.95 (96.65 to 97.65): VR0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

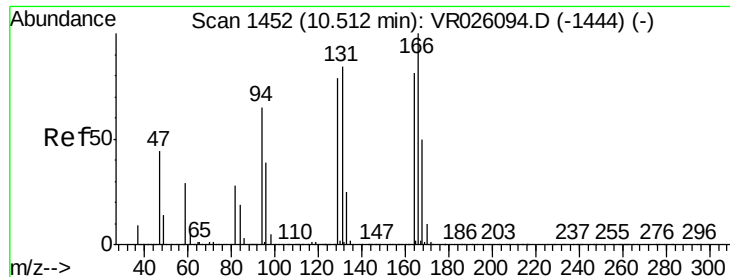


#45
 1,1,2-Trichloroethane
 Concen: 0.515 ug/L
 RT: 10.45 min Scan# 1441
 Delta R.T. 0.00 min
 Lab File: VR026108.D
 Acq: 16 Oct 2018 19:19

Tgt Ion: 97 Resp: 8487
 Ion Ratio Lower Upper
 97 100
 99 71.7 42.8 79.4
 83 92.9 61.9 114.9
 85 66.4 39.3 72.9

Abundance Ion 96.95 (96.65 to 97.65): VR0
 Ion 99.05 (98.75 to 99.75): VR0
 Ion 82.95 (82.65 to 83.65): VR0
 Ion 85.00 (84.70 to 85.70): VR0





#47

Tetrachloroethene

Concen: 265.751 ug/L

RT: 10.52 min Scan# 1453

Delta R.T. 0.01 min

Lab File: VR026108.D

Acq: 16 Oct 2018 19:19

Instrument :

MSVOA_R

ClientSampleId :

C0JD8

Tot Ion:164 Resp: 8998563

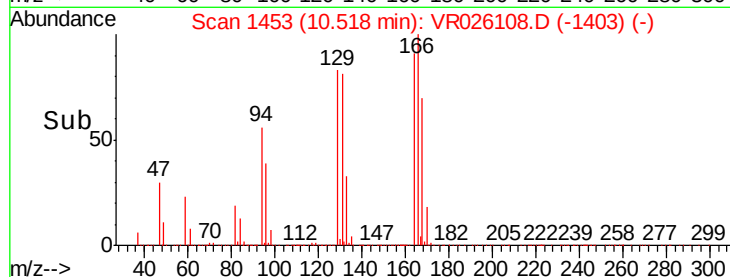
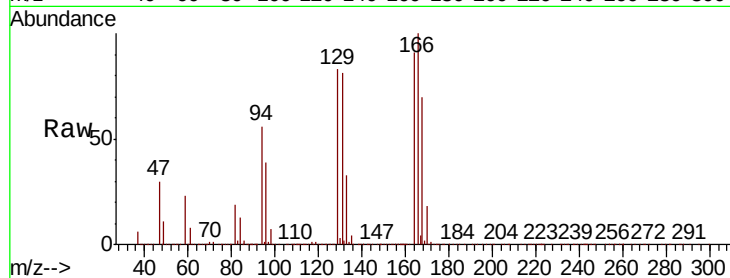
Ion Ratio Lower Upper

164 100

129 91.3 70.3 130.5

131 89.4 67.3 125.1

166 110.0 86.1 159.9



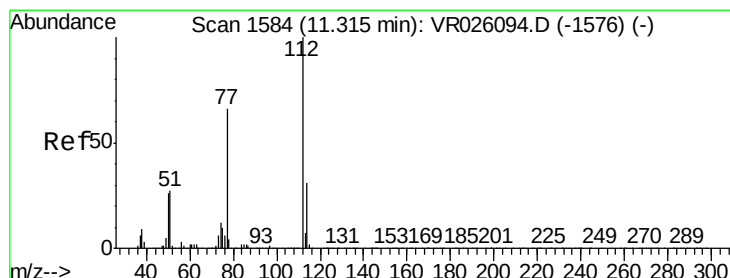
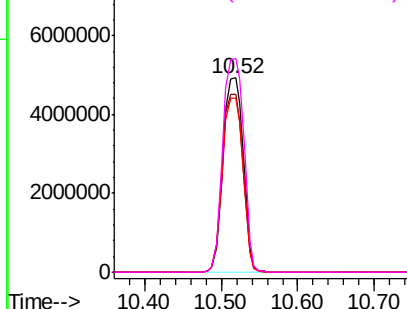
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#51

Chlorobenzene

Concen: 0.883 ug/L

RT: 11.32 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VR026108.D

Acq: 16 Oct 2018 19:19

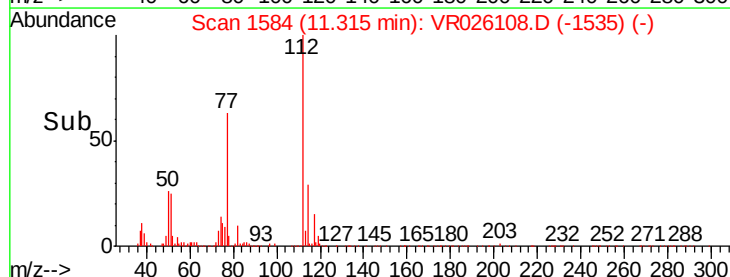
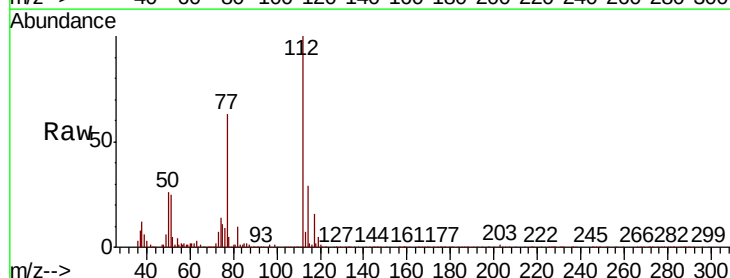
Tgt Ion:112 Resp: 95550

Ion Ratio Lower Upper

112 100

114 28.8 22.8 42.4

77 63.4 51.5 77.3

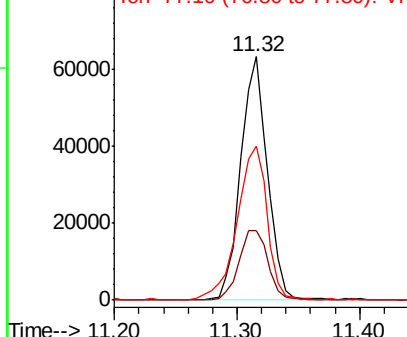


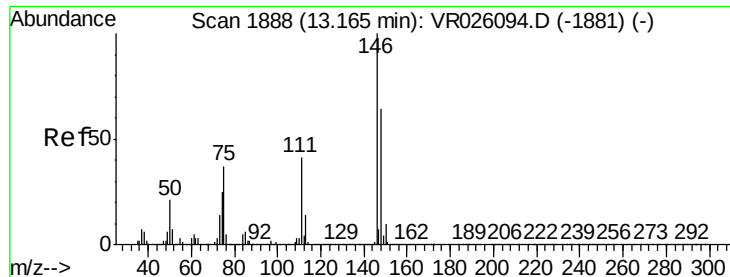
Abundance

Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VR





#62

1,3-Dichlorobenzene

Concen: 0.320 ug/L

RT: 13.16 min Scan# 1887

Delta R.T. -0.01 min

Lab File: VR026108.D

Acq: 16 Oct 2018 19:19

Instrument :

MSVOA_R

ClientSampled :

C0JD8

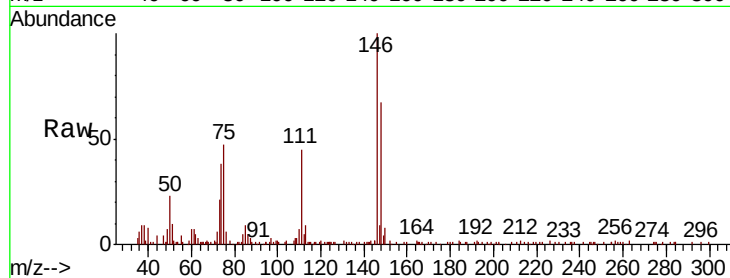
Tot Ion:146 Resp: 17678

Ion Ratio Lower Upper

146 100

111 45.4 32.1 59.7

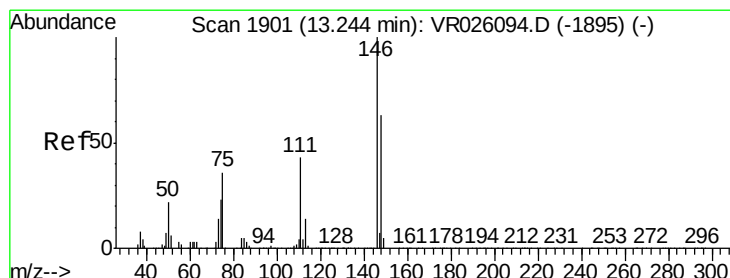
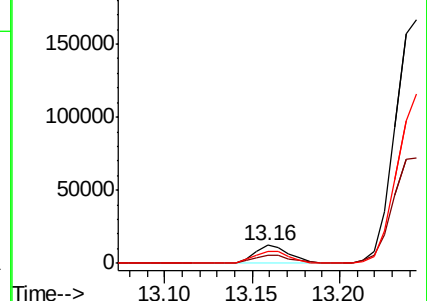
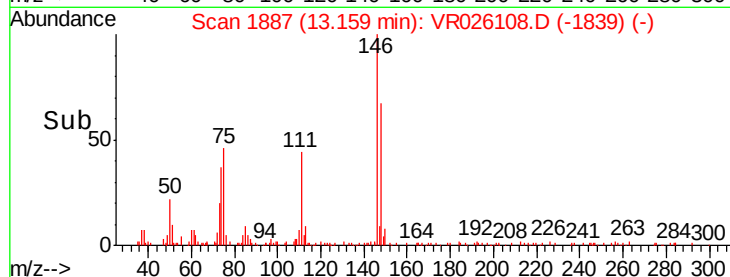
148 66.9 43.8 81.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.235 ug/L

RT: 13.24 min Scan# 1901

Delta R.T. 0.00 min

Lab File: VR026108.D

Acq: 16 Oct 2018 19:19

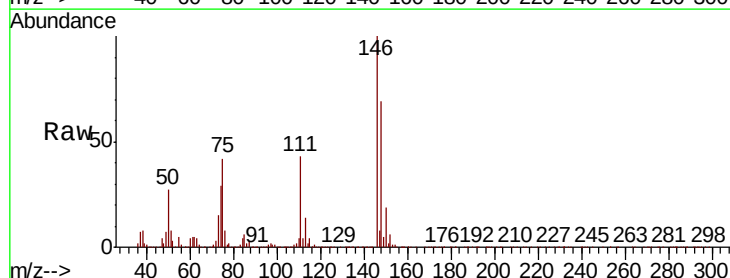
Tgt Ion:146 Resp: 242321

Ion Ratio Lower Upper

146 100

111 43.5 32.6 60.6

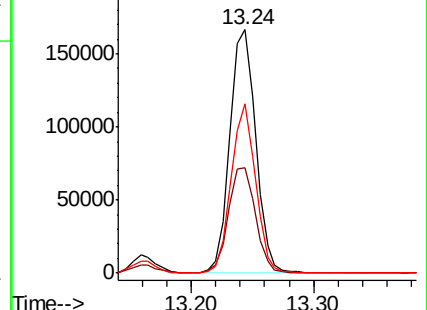
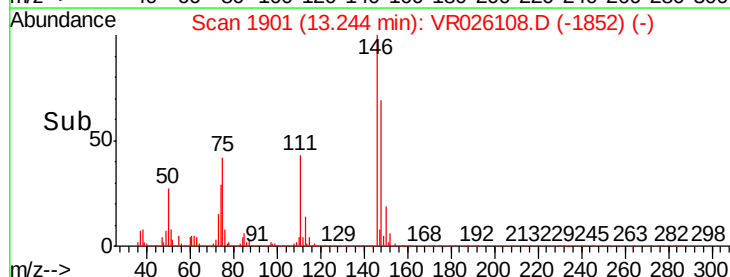
148 69.3 46.7 86.7

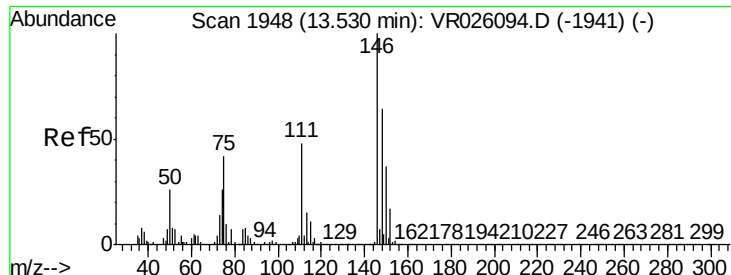


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 30.055 ug/L

RT: 13.53 min Scan# 1948

Delta R.T. 0.00 min

Lab File: VR026108.D

Acq: 16 Oct 2018 19:19

Instrument :

MSVOA_R

ClientSampleId :

C0JD8

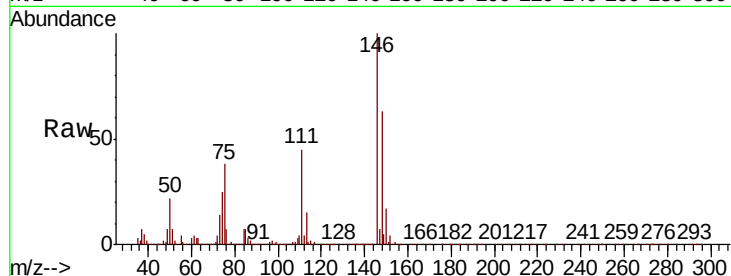
Tot Ion:146 Resp: 1332721

Ion Ratio Lower Upper

146 100

111 45.2 35.2 52.8

148 63.4 51.2 76.8



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

