

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052920\
 Data File : VV016317.D
 Acq On : 29 May 2020 15:56
 Operator : SY/MD
 Sample : L2662-01DL 10X
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 30 00:03:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR052620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat May 30 00:00:26 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	128566	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	120437	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	57045	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	33553	4.06	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	81.20%
7) Chloroethane-d5	1.58	69	25965	3.58	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	71.60%
11) 1,1-Dichloroethene-d2	2.12	63	45226	2.92	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	58.40%#
20) 2-Butanone-d5	3.95	46	100055	48.85	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.70%
24) Chloroform-d	4.38	84	63830	3.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	77.60%
26) 1,2-Dichloroethane-d4	5.06	65	37638	4.32	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.40%
32) Benzene-d6	5.07	84	136686	4.58	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.60%
36) 1,2-Dichloropropane-d6	6.10	67	42138	4.57	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.40%
41) Toluene-d8	7.34	98	122897	4.32	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.40%
45) trans-1,3-Dichloropropene-	7.65	79	14946	4.34	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.80%
48) 2-Hexanone-d5	8.13	63	80782	51.20	ug/L	0.02
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.40%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	30030	4.40	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	88.00%
65) 1,2-Dichlorobenzene-d4	11.65	152	45156	4.74	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.80%

Target Compounds

					Ovalue
5) Vinyl chloride	1.32	62	4613	0.410 ug/L #	79
8) Chloroethane	1.32	64	2089	0.332 ug/L	87
12) 1,1-Dichloroethene	2.13	96	957	0.126 ug/L #	1
16) Methylene chloride	2.52	84	2159	0.248 ug/L	98
18) trans-1,2-Dichloroethene	2.78	96	3496	0.421 ug/L	95
22) cis-1,2-Dichloroethene	3.94	96	101081	10.299 ug/L	96
25) Chloroform	4.40	83	3980	0.239 ug/L	90
27) 1,2-Dichloroethane	5.16	62	11121	1.020 ug/L #	96
33) Benzene	5.13	78	6379	0.184 ug/L	100
34) Trichloroethene	5.94	95	9375	1.038 ug/L	97
35) Methylcyclohexane	6.09	83	9964	0.654 ug/L #	21
37) 1,2-Dichloropropane	6.10	63	5102	0.600 ug/L #	88
39) cis-1,3-Dichloropropene	7.01	75	1266	0.105 ug/L #	40
46) trans-1,3-Dichloropropene	7.64	75	787	0.079 ug/L	97
47) 1,1,2-Trichloroethane	7.86	97	937	0.168 ug/L	88
50) 2-Hexanone	8.13	43	10805	2.930 ug/L #	70
53) Chlorobenzene	8.90	112	13804	0.591 ug/L	97

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Quant Title : TRACE VOA SOM01.0
QLast Update : Sat May 30 00:00:26 2020
Response via : Initial Calibration

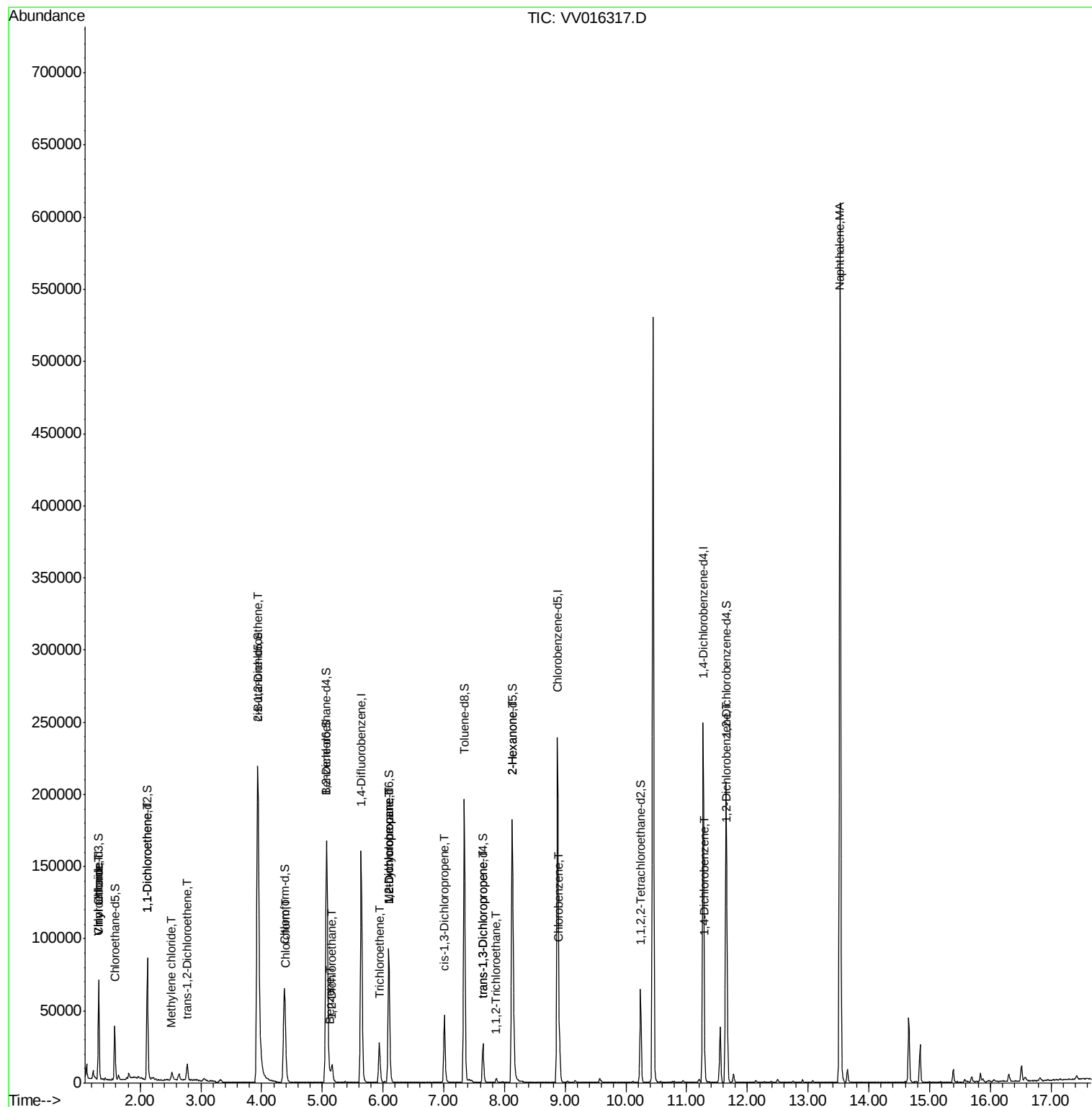
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 1,4-Dichlorobenzene	11.30	146	3717	0.210	ug/L	94
66) 1,2-Dichlorobenzene	11.67	146	18239	1.159	ug/L	99
70) Naphthalene	13.53	128	443118	18.749	ug/L	100

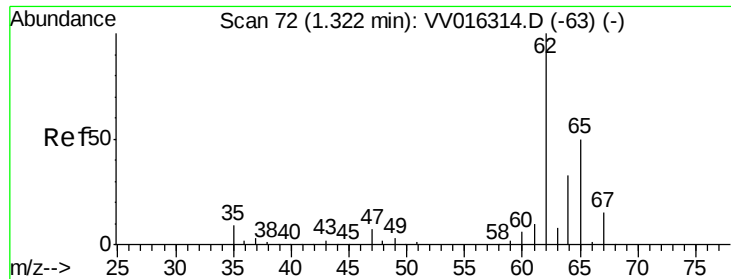
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.410 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV016317.D

Acq: 29 May 2020 15:56

Instrument :

MSVOA_V

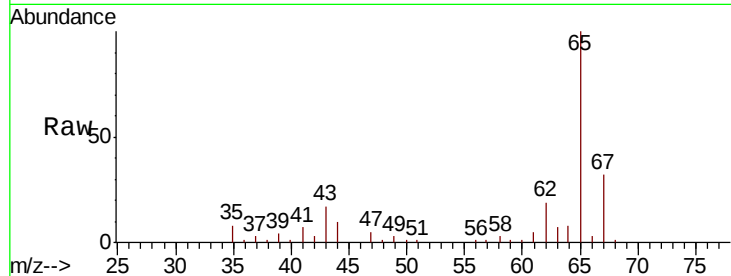
ClientSampled :

Tot Ion: 62 Resp: 4613

Ion Ratio Lower Upper

62 100

64 43.5 22.1 41.1#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

1.32

4000

3000

2000

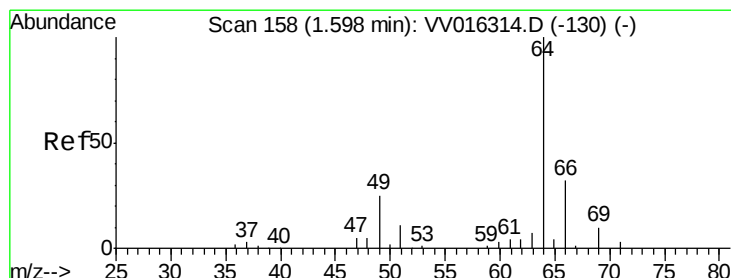
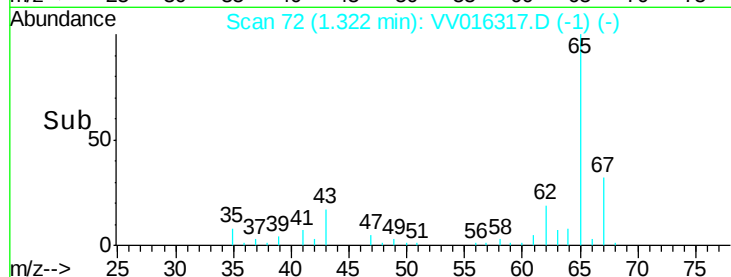
1000

0

1.30

1.35

Time-->



#8

Chloroethane

Concen: 0.332 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.28 min

Lab File: VV016317.D

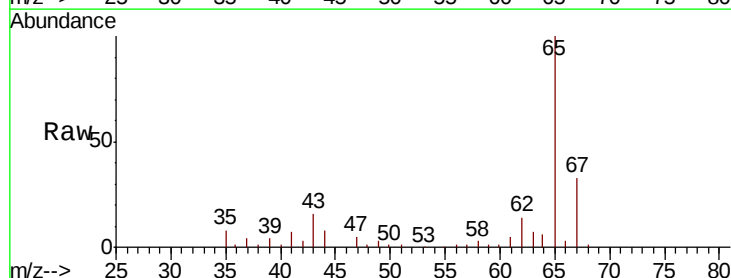
Acq: 29 May 2020 15:56

Tgt Ion: 64 Resp: 2089

Ion Ratio Lower Upper

64 100

66 40.0 22.9 42.5



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0

1.32

2000

1500

1000

500

0

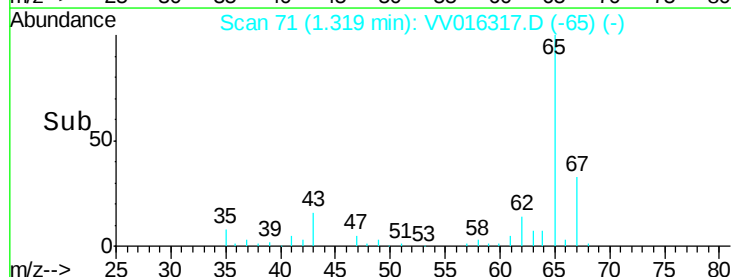
1.30

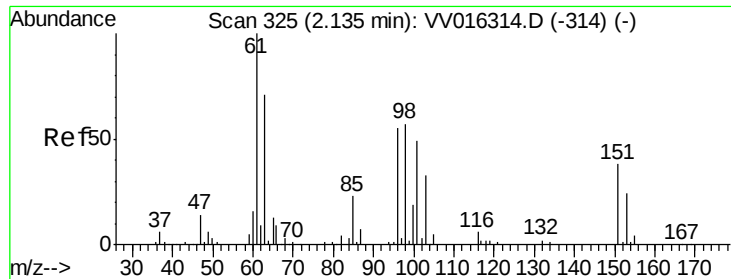
1.32

1.34

1.36

Time-->





#12

1,1-Dichloroethene

Concen: 0.126 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV016317.D

Acq: 29 May 2020 15:56

Instrument :
MSVOA_V
ClientSampleId :

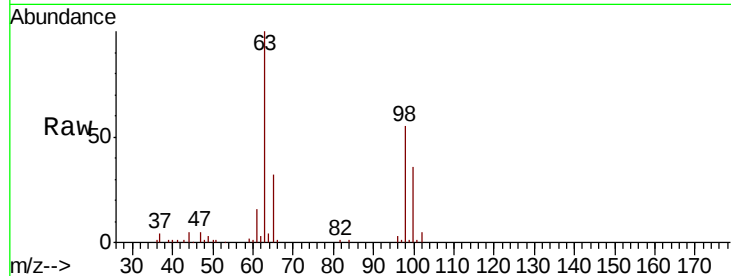
Tot Ion: 96 Resp: 957

Ion Ratio Lower Upper

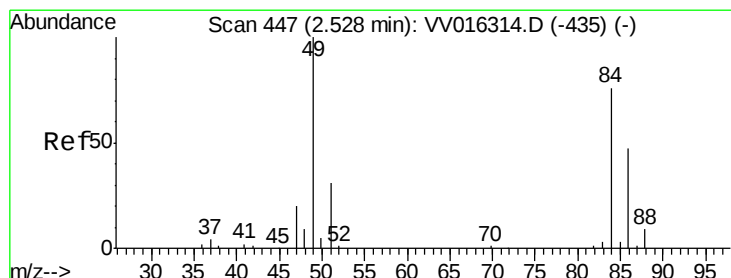
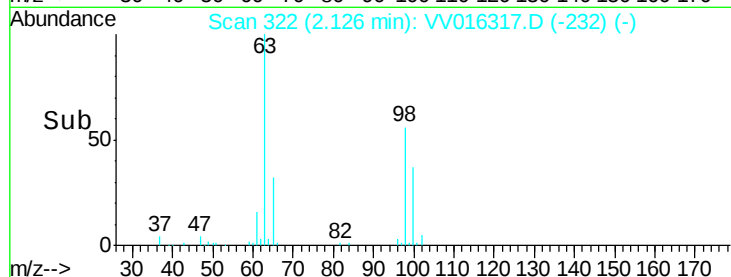
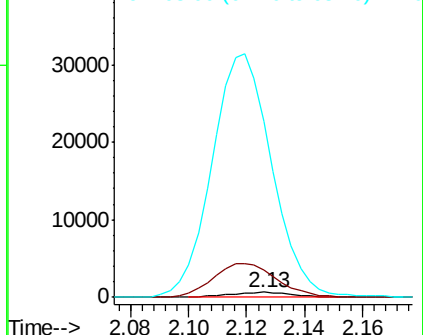
96 100

61 547.6 124.9 231.9#

63 3492.1 80.4 149.2#



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 63.00 (62.70 to 63.70): VV0



#16

Methylene chloride

Concen: 0.248 ug/L

RT: 2.52 min Scan# 446

Delta R.T. -0.00 min

Lab File: VV016317.D

Acq: 29 May 2020 15:56

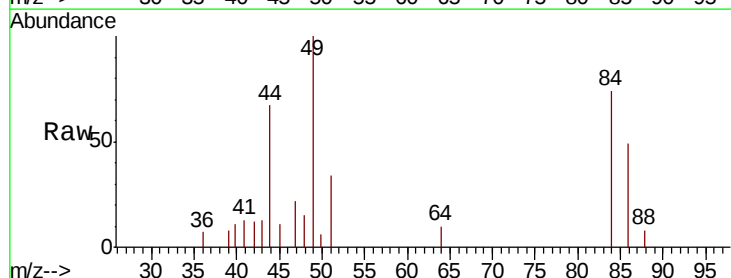
Tgt Ion: 84 Resp: 2159

Ion Ratio Lower Upper

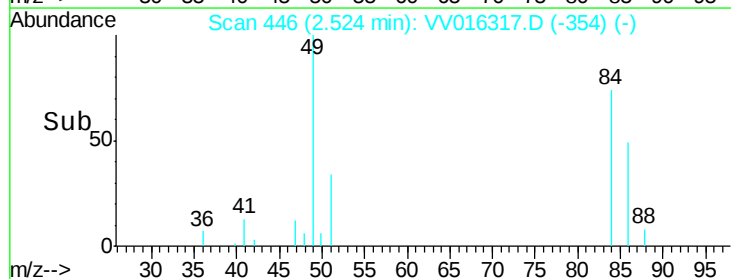
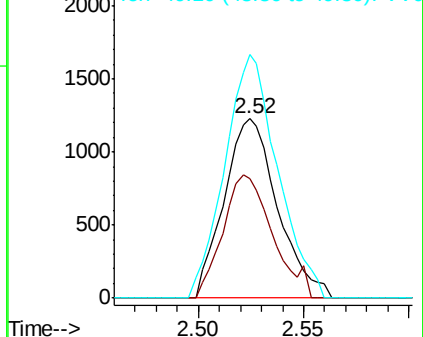
84 100

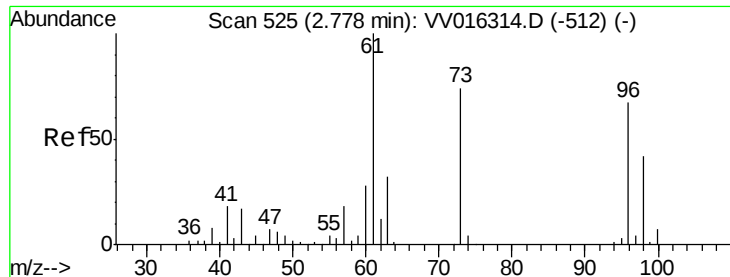
86 66.7 44.9 83.5

49 135.7 96.7 179.7



Abundance Ion 84.05 (83.75 to 84.75): VV0
Ion 86.00 (85.70 to 86.70): VV0
Ion 49.10 (48.80 to 49.80): VV0





#18

trans-1,2-Dichloroethene

Concen: 0.421 ug/L

RT: 2.78 min Scan# 524

Delta R.T. -0.00 min

Lab File: VV016317.D

Acq: 29 May 2020 15:56

Instrument :
MSVOA_V
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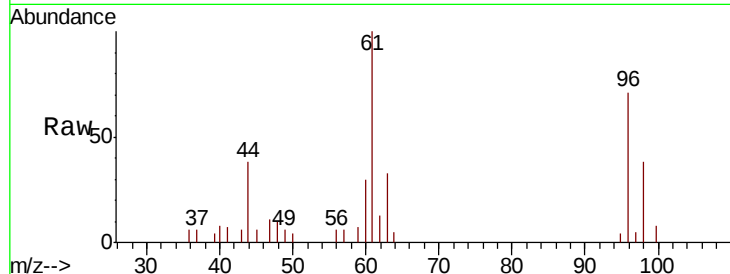
Tot Ion: 96 Resp: 3496

Ion Ratio Lower Upper

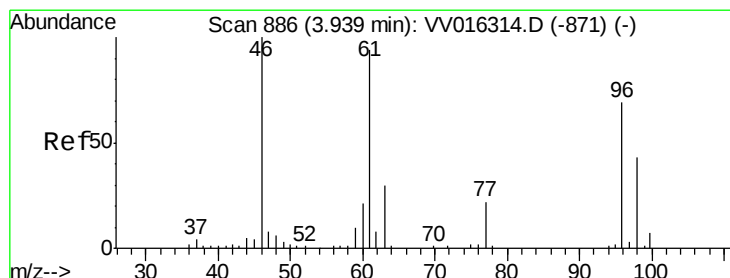
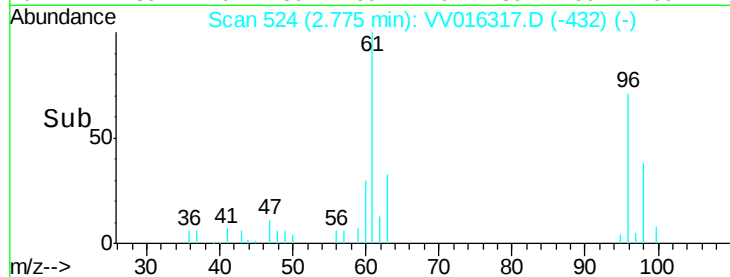
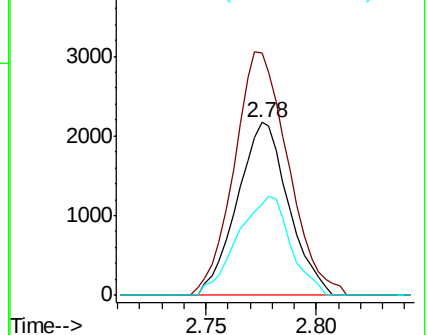
96 100

61 140.5 99.8 185.4

98 52.7 44.0 81.6



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 97.95 (97.65 to 98.65): VV0



#22

cis-1,2-Dichloroethene

Concen: 10.299 ug/L

RT: 3.94 min Scan# 885

Delta R.T. -0.00 min

Lab File: VV016317.D

Acq: 29 May 2020 15:56

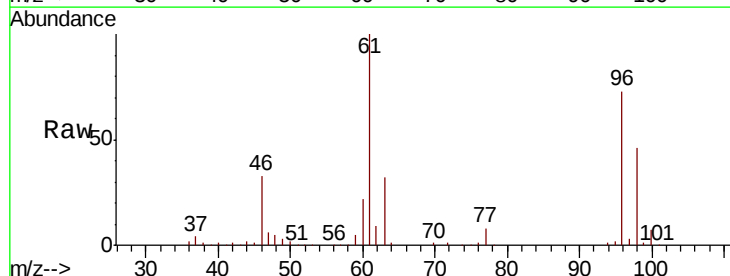
Tgt Ion: 96 Resp: 101081

Ion Ratio Lower Upper

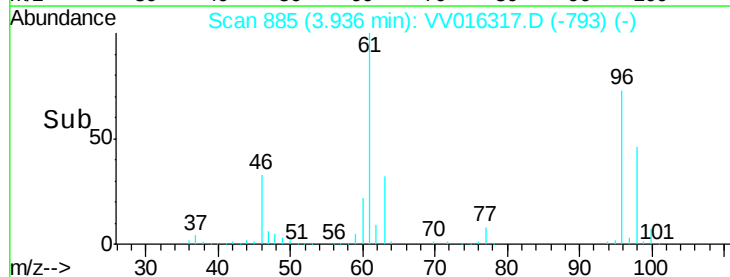
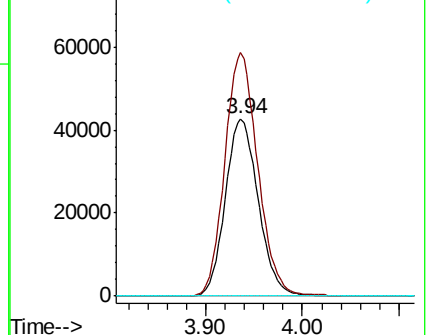
96 100

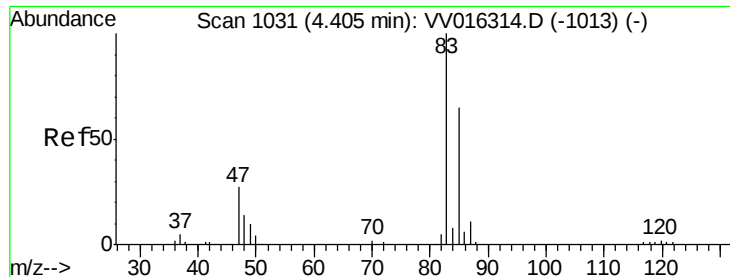
61 137.3 99.7 185.1

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0

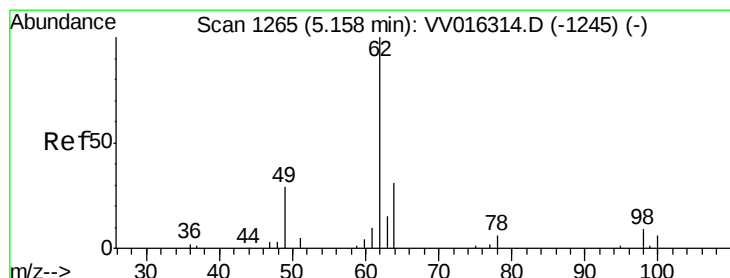
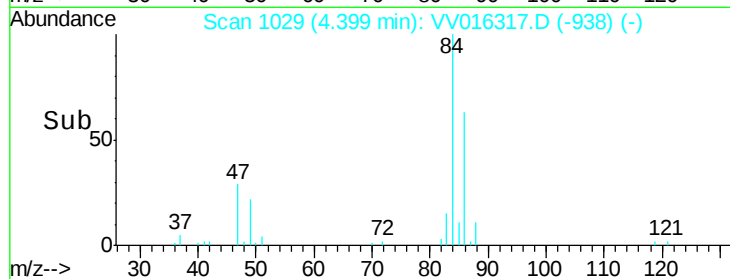
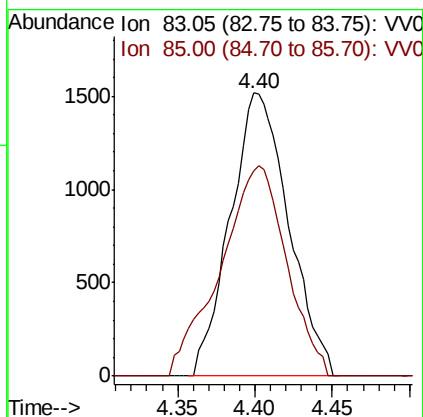
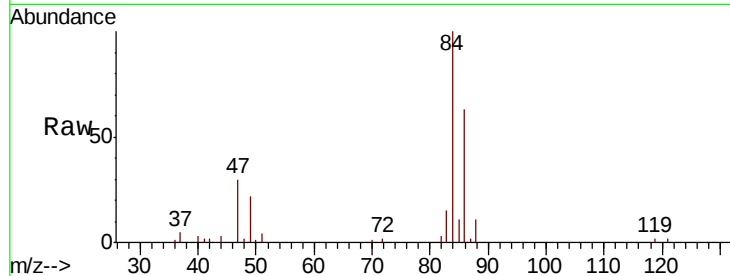




#25
 Chloroform
 Concen: 0.239 ug/L
 RT: 4.40 min Scan# 1029
 Delta R.T. -0.01 min
 Lab File: VV016317.D
 Acq: 29 May 2020 15:56

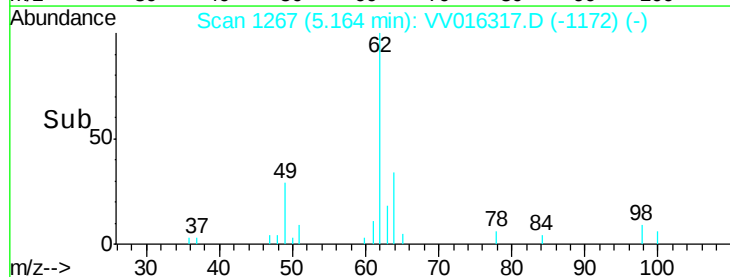
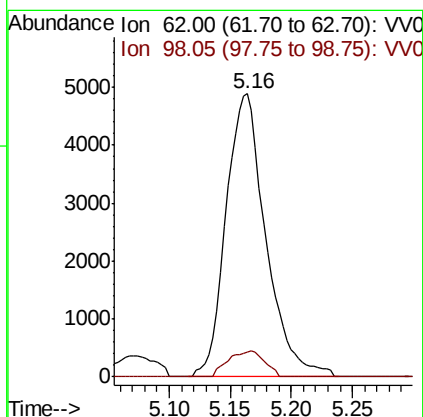
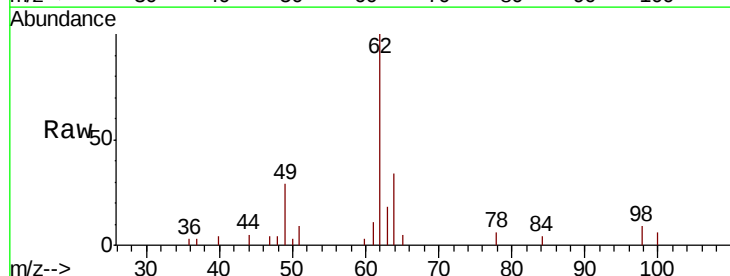
Instrument :
 MSVOA_V
 ClientSampleId :

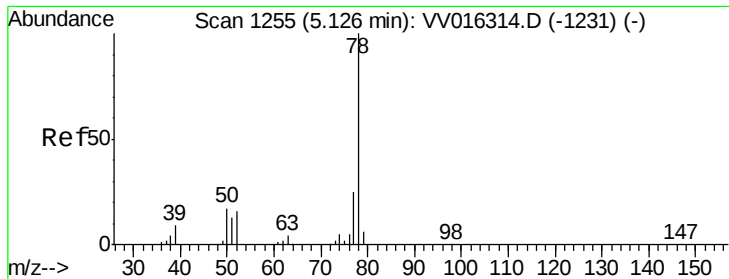
Tot Ion: 83 Resp: 3980
 Ion Ratio Lower Upper
 83 100
 85 72.4 45.1 83.7



#27
 1,2-Dichloroethane
 Concen: 1.020 ug/L
 RT: 5.16 min Scan# 1267
 Delta R.T. 0.01 min
 Lab File: VV016317.D
 Acq: 29 May 2020 15:56

Tgt Ion: 62 Resp: 11121
 Ion Ratio Lower Upper
 62 100
 98 8.6 5.7 8.5#

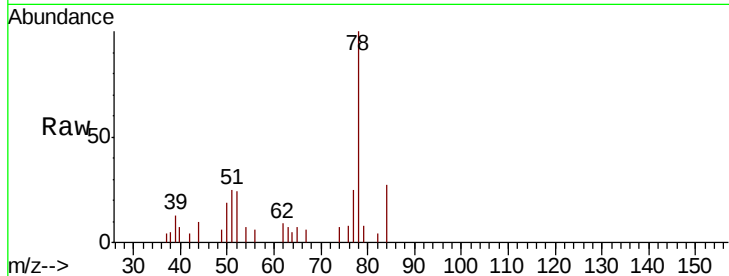




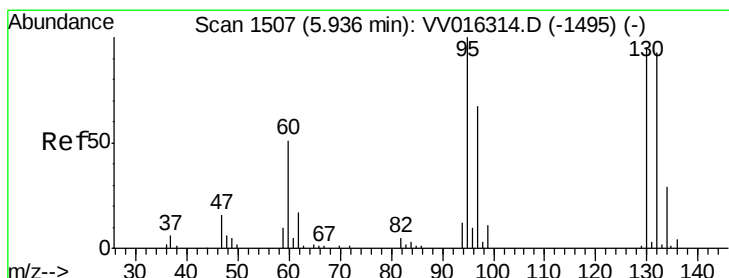
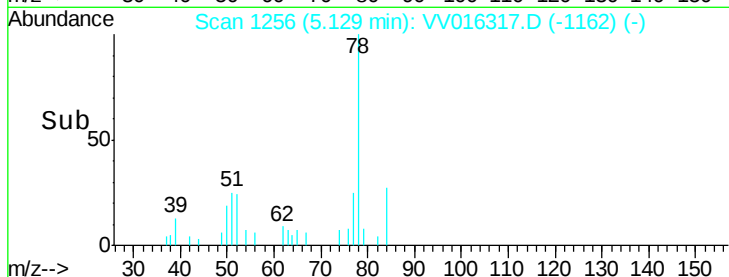
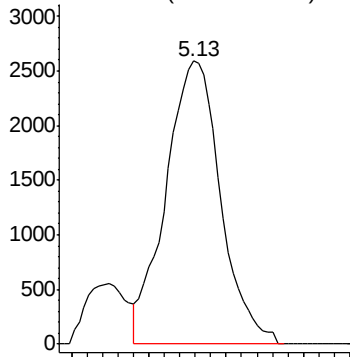
#33
Benzene
Concen: 0.184 ug/L
RT: 5.13 min Scan# 1256
Delta R.T. 0.00 min
Lab File: VV016317.D
Acq: 29 May 2020 15:56

Instrument :
MSVOA_V
ClientSampled :

Tgt Ion: 78 Resp: 6379

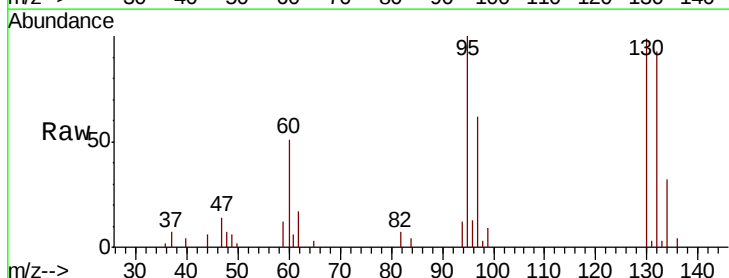


Abundance Ion 78.10 (77.80 to 78.80): VV0



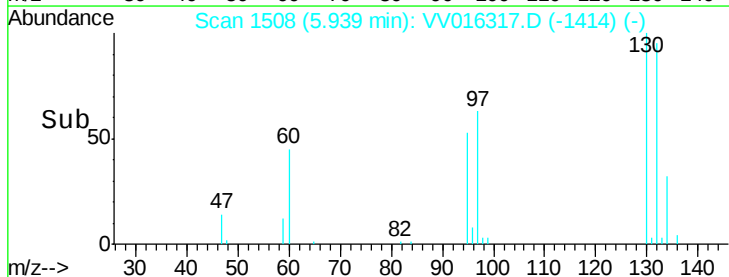
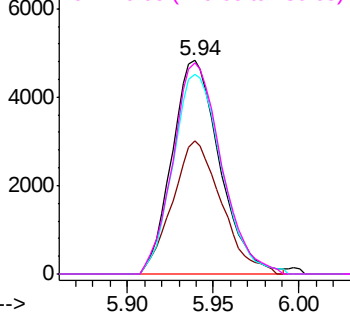
#34
Trichloroethene
Concen: 1.038 ug/L
RT: 5.94 min Scan# 1508
Delta R.T. 0.00 min
Lab File: VV016317.D
Acq: 29 May 2020 15:56

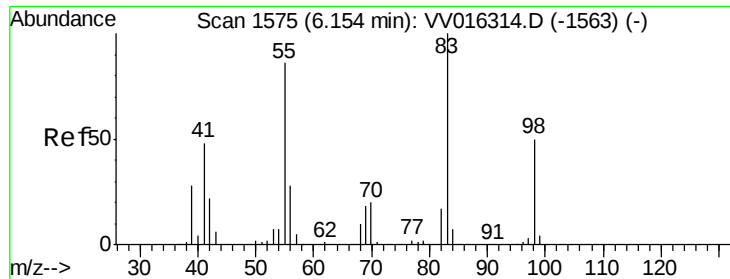
Tgt Ion: 95 Resp: 9375
Ion Ratio Lower Upper
95 100
97 62.2 43.6 81.0
132 93.4 63.9 118.7
130 98.9 65.2 121.0



Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0
Ion 131.95 (131.65 to 132.65): VV0
Ion 129.95 (129.65 to 130.65): VV0

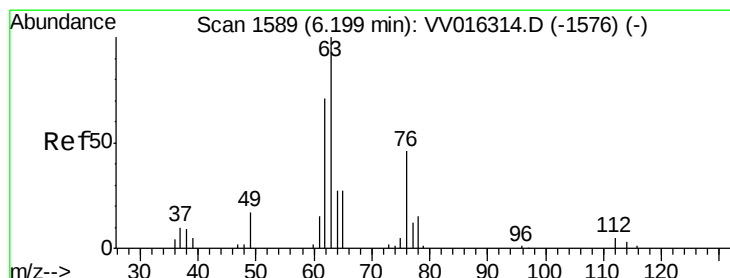
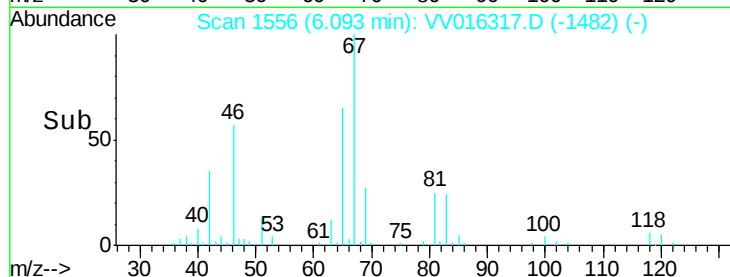
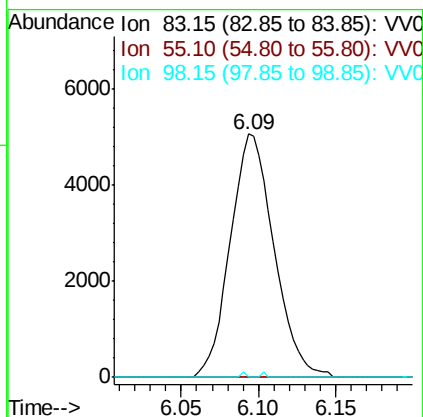
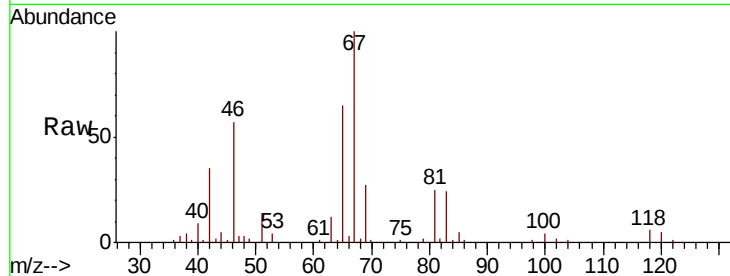




#35
Methvlcvclohexane
Concen: 0.654 ug/L
RT: 6.09 min Scan# 1556
Delta R.T. -0.06 min
Lab File: VV016317.D
Acq: 29 May 2020 15:56

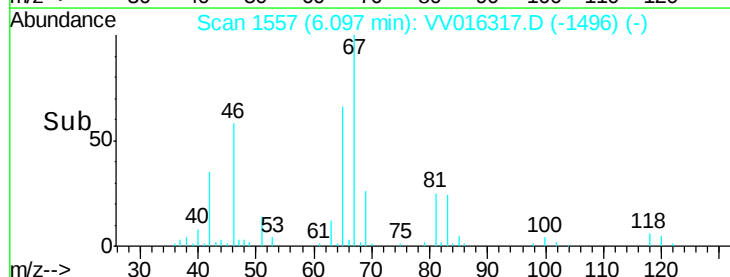
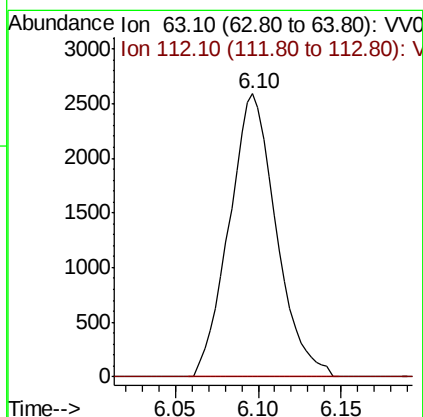
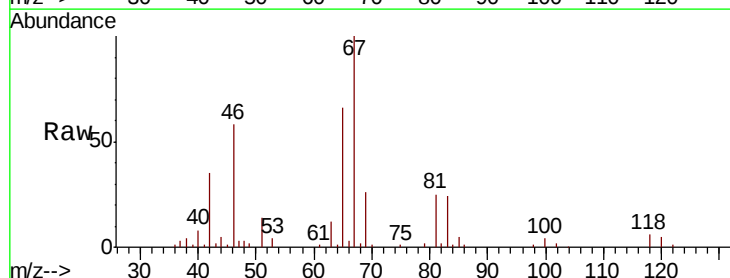
Instrument :
MSVOA_V
ClientSampleId :

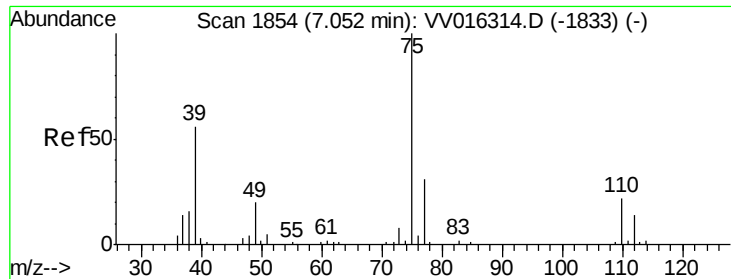
Tot Ion: 83 Resp: 9964
Ion Ratio Lower Upper
83 100
55 0.0 65.4 98.0#
98 9.5 39.3 58.9#



#37
1,2-Dichloropropane
Concen: 0.600 ug/L
RT: 6.10 min Scan# 1557
Delta R.T. -0.10 min
Lab File: VV016317.D
Acq: 29 May 2020 15:56

Tgt Ion: 63 Resp: 5102
Ion Ratio Lower Upper
63 100
112 0.0 3.1 4.7#

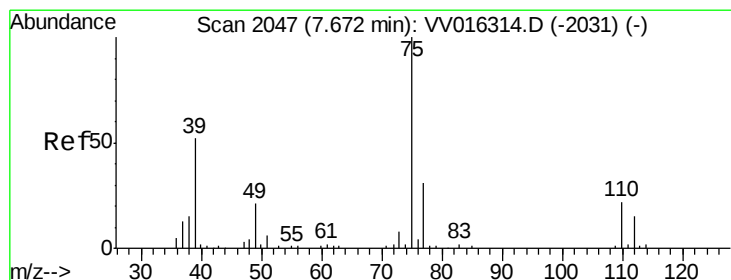
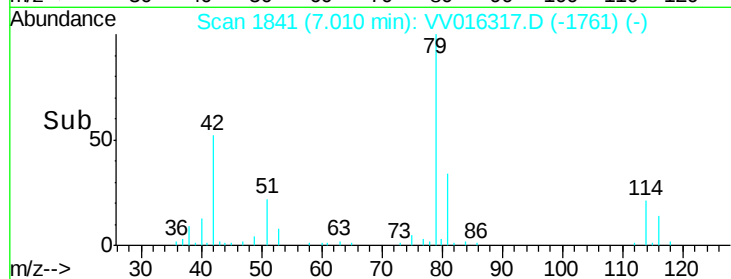
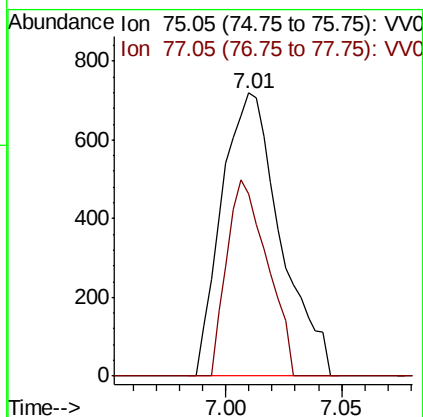
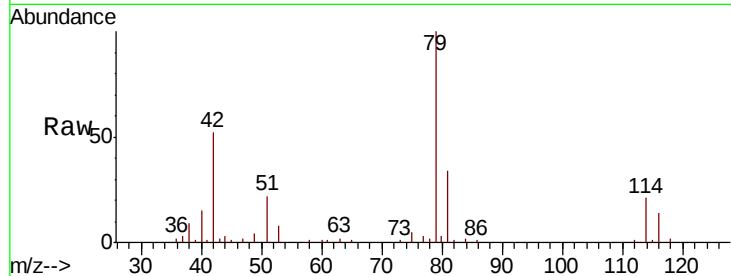




#39
 cis-1,3-Dichloropropene
 Concen: 0.105 ug/L
 RT: 7.01 min Scan# 1841
 Delta R.T. -0.04 min
 Lab File: VV016317.D
 Acq: 29 May 2020 15:56

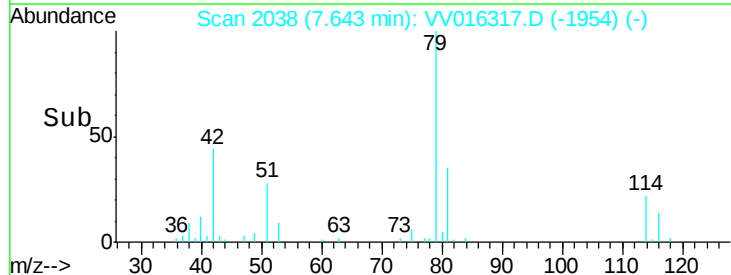
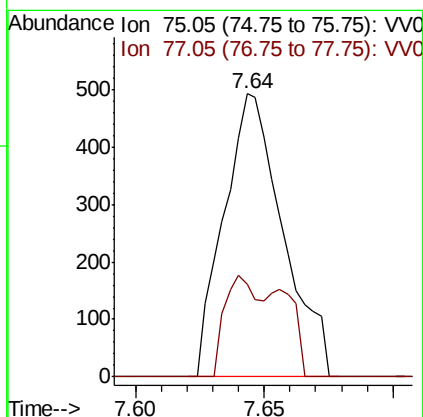
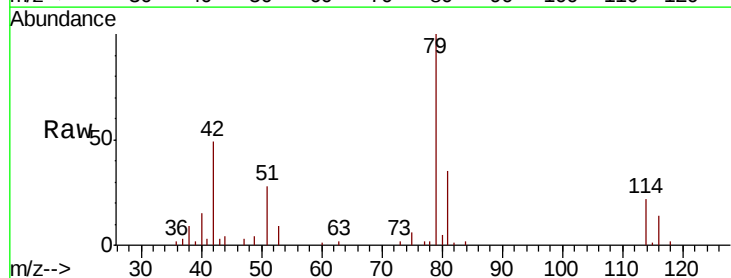
Instrument :
 MSVOA_V
 ClientSampleId :

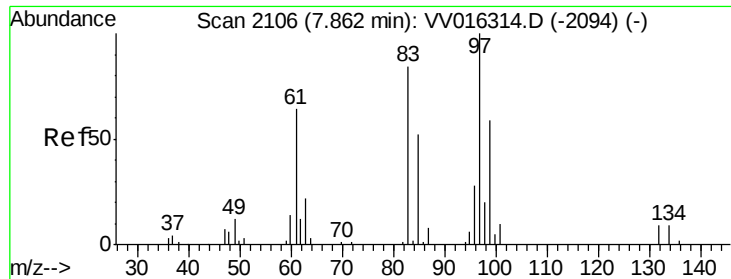
Tot Ion: 75 Resp: 1266
 Ion Ratio Lower Upper
 75 100
 77 64.3 21.7 40.3#



#46
 trans-1,3-Dichloropropene
 Concen: 0.079 ug/L
 RT: 7.64 min Scan# 2038
 Delta R.T. -0.03 min
 Lab File: VV016317.D
 Acq: 29 May 2020 15:56

Tgt Ion: 75 Resp: 787
 Ion Ratio Lower Upper
 75 100
 77 32.7 21.7 40.3

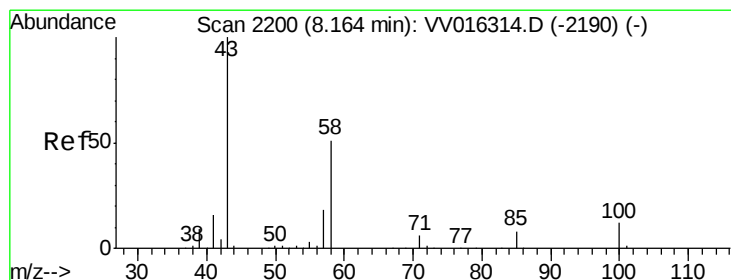
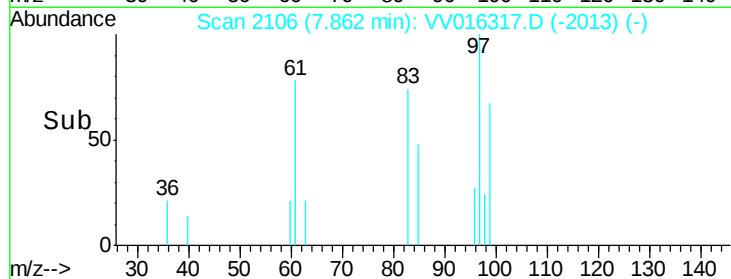
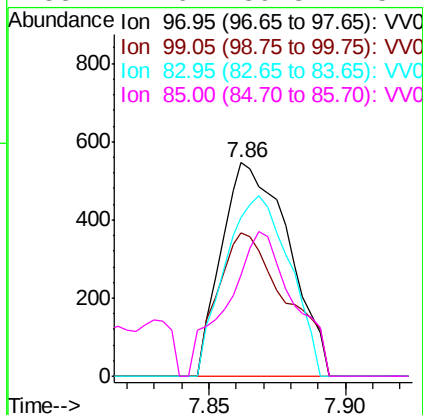
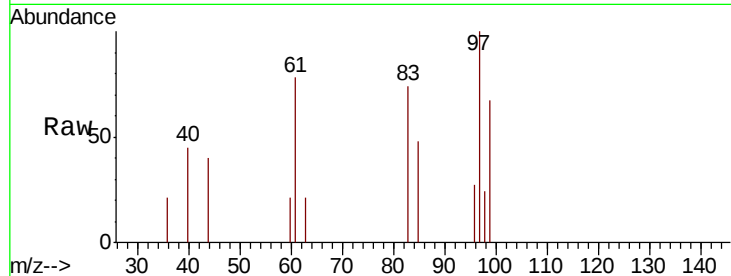




#47
 1,1,2-Trichloroethane
 Concen: 0.168 ug/L
 RT: 7.86 min Scan# 2106
 Delta R.T. 0.00 min
 Lab File: VV016317.D
 Acq: 29 May 2020 15:56

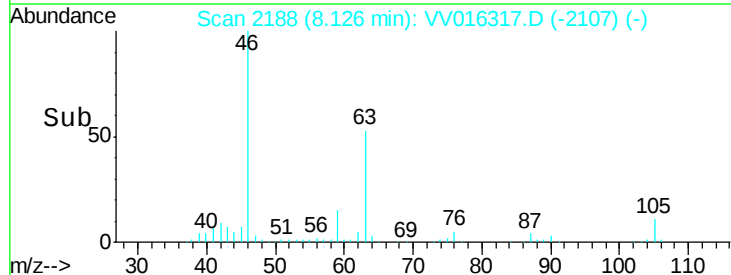
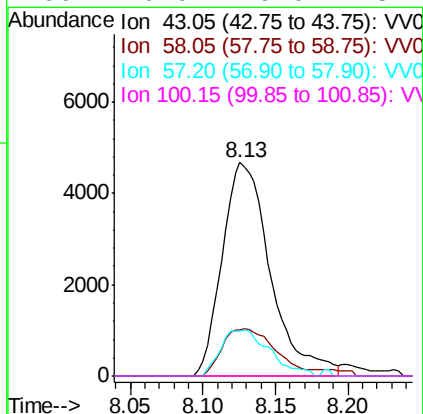
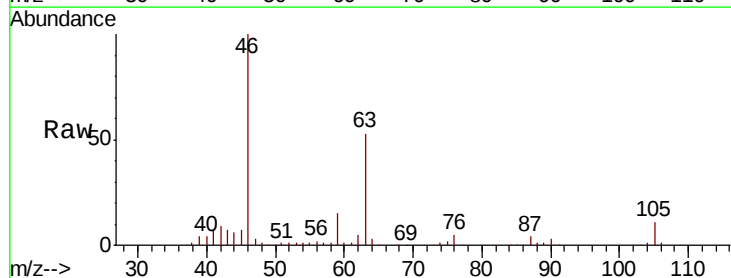
Instrument :
 MSVOA_V
 ClientSampleId :

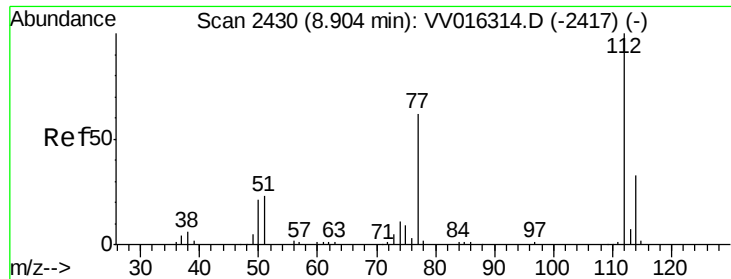
Tot Ion:	97	Resp:	937
Ion	Ratio	Lower	Upper
97	100		
99	67.0	40.8	75.8
83	74.2	60.0	111.4
85	47.6	39.3	73.1



#50
 2-Hexanone
 Concen: 2.930 ug/L
 RT: 8.13 min Scan# 2188
 Delta R.T. -0.04 min
 Lab File: VV016317.D
 Acq: 29 May 2020 15:56

Tgt Ion:	43	Resp:	10805
Ion	Ratio	Lower	Upper
43	100		
58	24.3	41.4	62.0#
57	21.9	15.0	22.4
100	0.0	9.0	13.4#

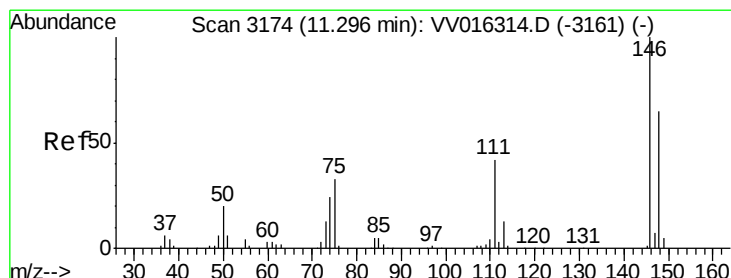
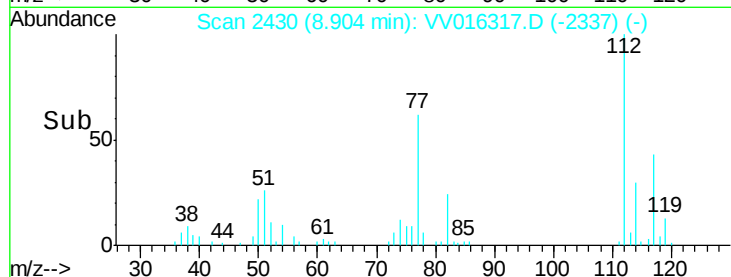
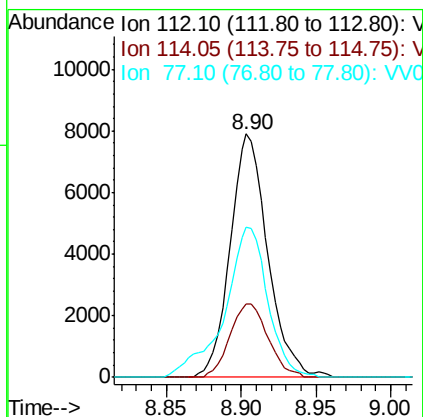
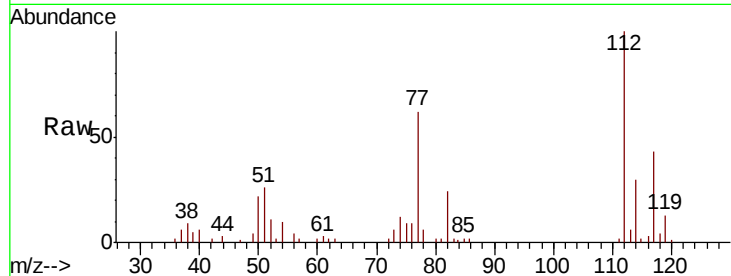




#53
Chlorobenzene
Concen: 0.591 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV016317.D
Acq: 29 May 2020 15:56

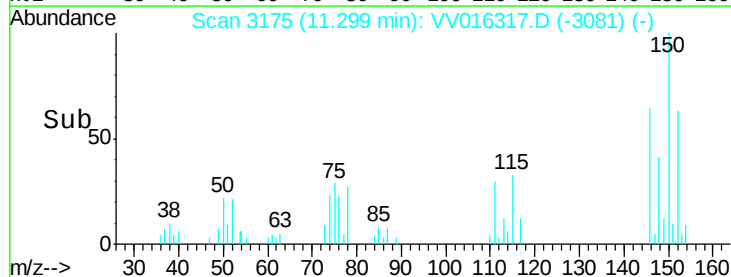
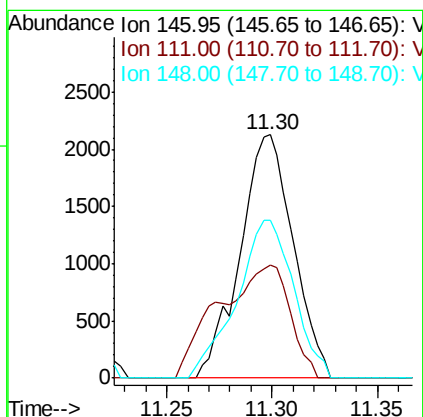
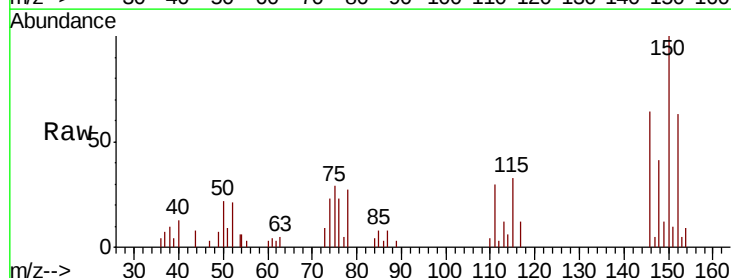
Instrument :
MSVOA_V
ClientSampled :

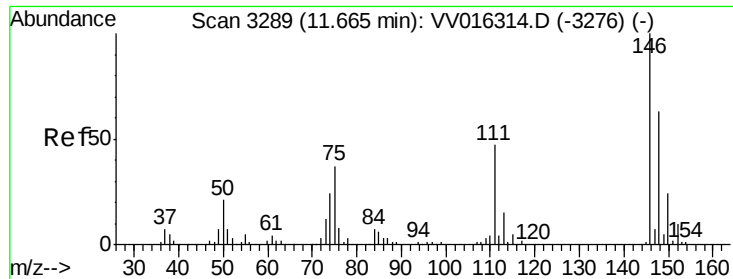
Tot Ion:112 Resp: 13804
Ion Ratio Lower Upper
112 100
114 29.9 22.3 41.3
77 61.5 50.7 76.1



#64
1,4-Dichlorobenzene
Concen: 0.210 ug/L
RT: 11.30 min Scan# 3175
Delta R.T. 0.00 min
Lab File: VV016317.D
Acq: 29 May 2020 15:56

Tgt Ion:146 Resp: 3717
Ion Ratio Lower Upper
146 100
111 46.3 28.3 52.7
148 64.7 43.3 80.3

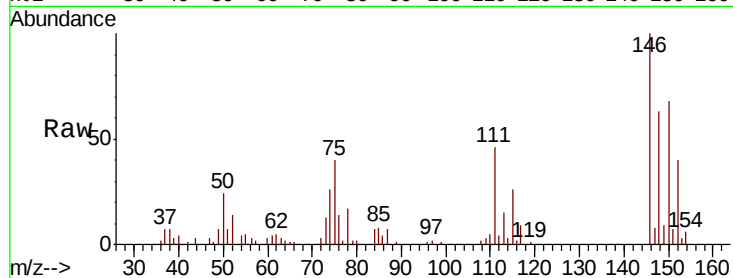




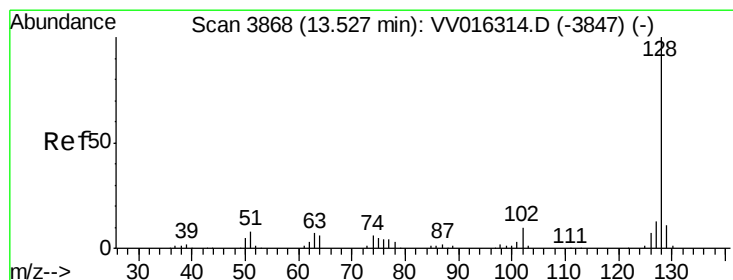
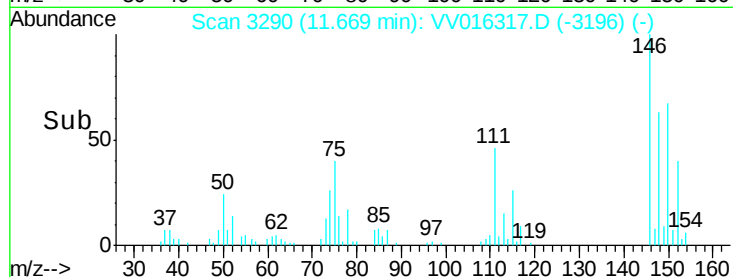
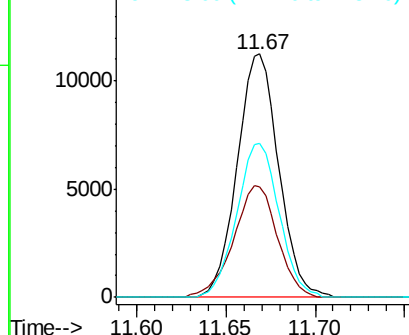
#66
 1,2-Dichlorobenzene
 Concen: 1.159 ug/L
 RT: 11.67 min Scan# 3290
 Delta R.T. 0.00 min
 Lab File: VV016317.D
 Acq: 29 May 2020 15:56

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion:146 Resp: 18239
 Ion Ratio Lower Upper
 146 100
 111 45.6 35.7 53.5
 148 63.4 51.3 76.9

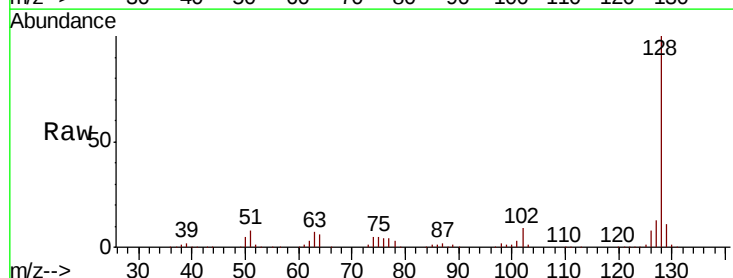


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V



#70
 Naphthalene
 Concen: 18.749 ug/L
 RT: 13.53 min Scan# 3868
 Delta R.T. 0.00 min
 Lab File: VV016317.D
 Acq: 29 May 2020 15:56

Tgt Ion:128 Resp: 443118
 Ion Ratio Lower Upper
 128 100
 129 10.9 8.6 13.0
 127 13.0 10.6 15.8



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

