

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV091318\
 Data File : VV007528.D
 Acq On : 13 Sep 2018 23:45
 Operator : SY/MD
 Sample : J4871-13DL 5X
 Misc : 25.0 mL/MSVOA V/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 14 05:12:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR091318WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Sep 14 05:10:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	132058	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	114036	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	60324	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	27775	4.03	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	80.60%
7) Chloroethane-d5	1.59	69	26255	4.54	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.80%
11) 1,1-Dichloroethene-d2	2.13	63	51448	3.58	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	71.60%
20) 2-Butanone-d5	3.97	46	70007	72.76	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	145.52%#
24) Chloroform-d	4.41	84	63781	4.51	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.20%
26) 1,2-Dichloroethane-d4	5.09	65	33421	4.82	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.40%
32) Benzene-d6	5.10	84	123334	4.77	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.40%
36) 1,2-Dichloropropane-d6	6.12	67	37130	4.81	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.20%
41) Toluene-d8	7.36	98	121688	4.52	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.40%
43) trans-1,3-Dichloropropene-	7.67	79	15692	4.40	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.00%
46) 2-Hexanone-d5	8.14	63	32495	57.04	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	114.08%
57) 1,1,2,2-Tetrachloroethane-	10.27	84	27825	5.16	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	103.20%
64) 1,2-Dichlorobenzene-d4	11.68	152	48935	4.43	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.60%

Target Compounds

					Ovalue
5) Vinyl chloride	1.32	62	2420	0.349 ug/L #	69
12) 1,1-Dichloroethene	2.15	96	7465	1.114 ug/L #	9
16) Methylene chloride	2.54	84	6746	0.931 ug/L	97
19) 1,1-Dichloroethane	3.23	63	1400	0.132 ug/L #	78
22) cis-1,2-Dichloroethene	3.97	96	29052	4.042 ug/L	98
25) Chloroform	4.43	83	1200	0.099 ug/L	87
29) 1,1,1-Trichloroethane	4.66	97	14019	1.264 ug/L	99
31) Carbon tetrachloride	4.66	117	1925	0.185 ug/L	90
34) Trichloroethene	5.96	95	184747	25.581 ug/L	98
35) Methylcyclohexane	6.13	83	9812	0.880 ug/L #	22
37) 1,2-Dichloropropane	6.13	63	4207	0.725 ug/L #	85
39) cis-1,3-Dichloropropene	7.03	75	1282	0.139 ug/L #	55
44) trans-1,3-Dichloropropene	7.67	75	800	0.105 ug/L #	54
48) 2-Hexanone	8.20	43	5161	2.122 ug/L #	36
52) Ethylbenzene	9.06	91	2874	0.094 ug/L	95
53) m,p-xylene	9.18	106	3922	0.330 ug/L	95
54) o-xylene	9.59	106	1147	0.099 ug/L	83

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Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Sep 14 05:10:24 2018
Response via : Initial Calibration

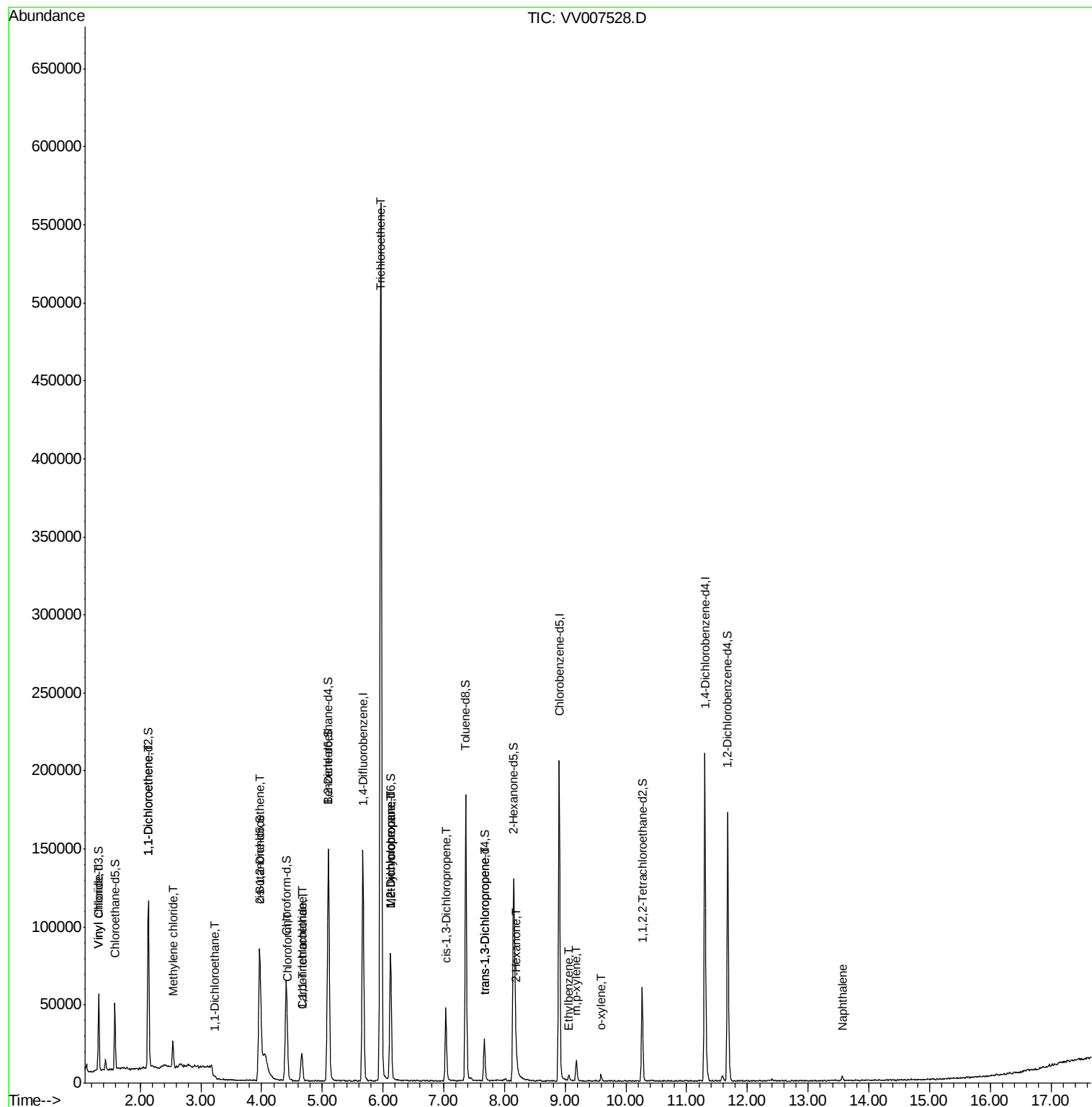
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) Naphthalene	13.56	128	2753	0.266	ug/L	98

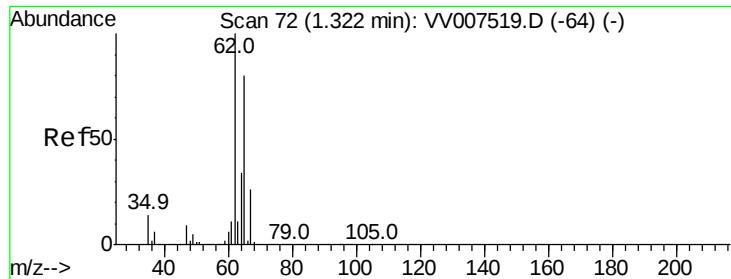
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Sep 14 05:10:24 2018
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.349 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV007528.D

Acq: 13 Sep 2018 23:45

Instrument :

MSVOA_V

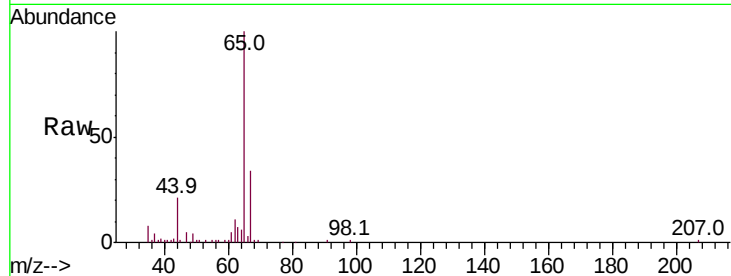
ClientSampled :

Tot Ion: 62 Resp: 2420

Ion Ratio Lower Upper

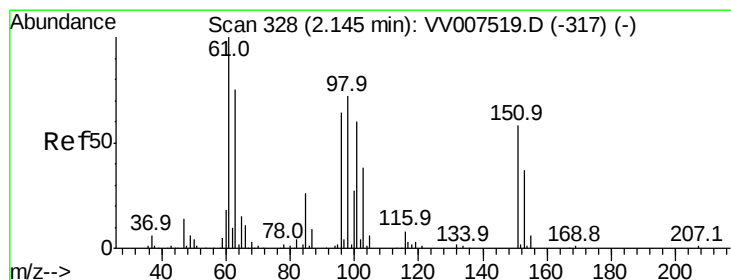
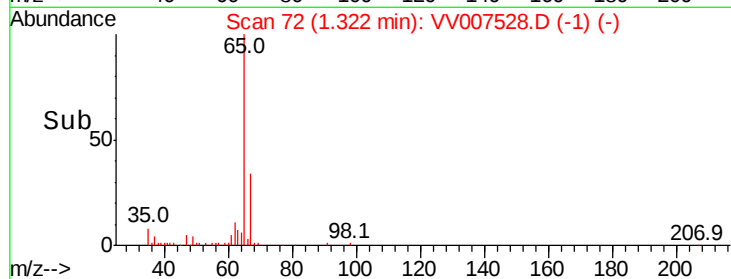
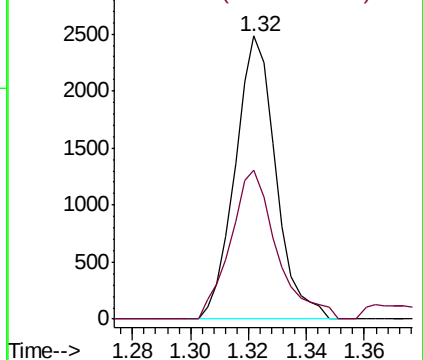
62 100

64 52.7 24.4 45.2#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#12

1,1-Dichloroethene

Concen: 1.114 ug/L

RT: 2.15 min Scan# 328

Delta R.T. 0.00 min

Lab File: VV007528.D

Acq: 13 Sep 2018 23:45

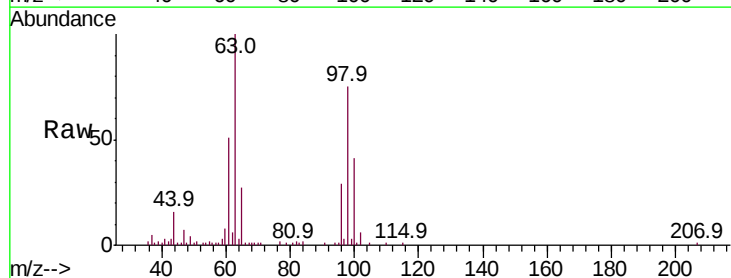
Tgt Ion: 96 Resp: 7465

Ion Ratio Lower Upper

96 100

61 175.7 114.8 213.2

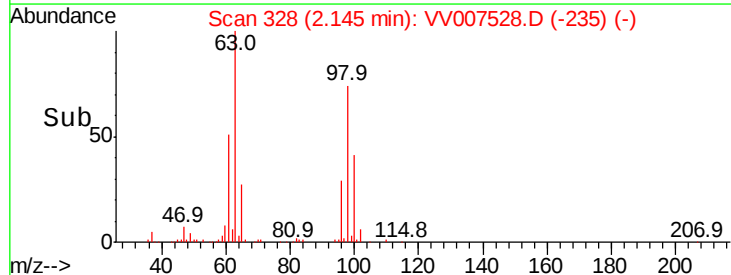
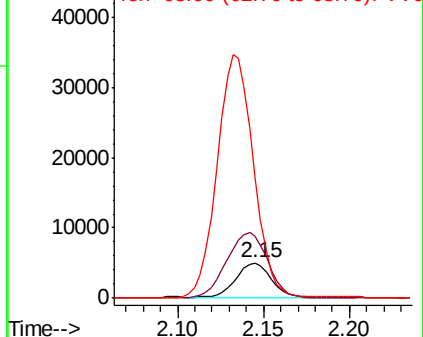
63 342.1 81.8 151.8#

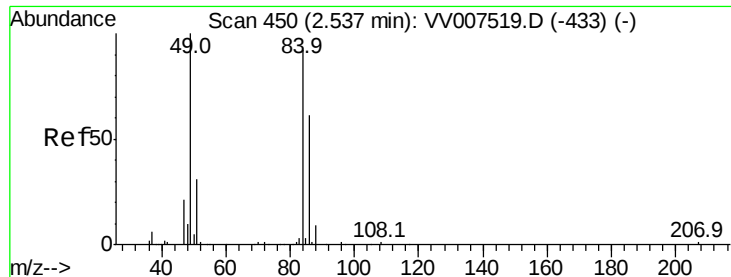


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0

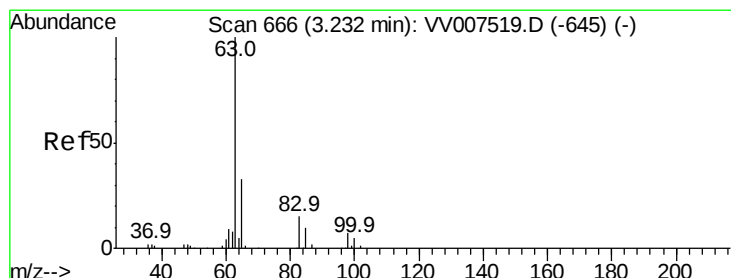
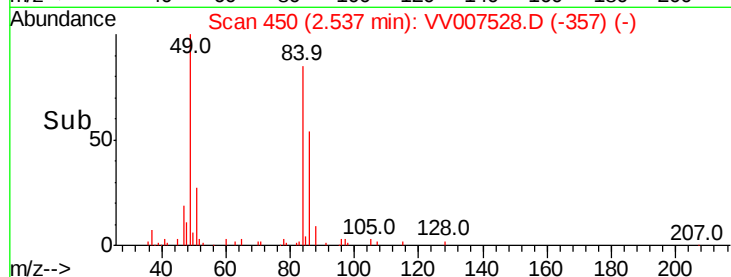
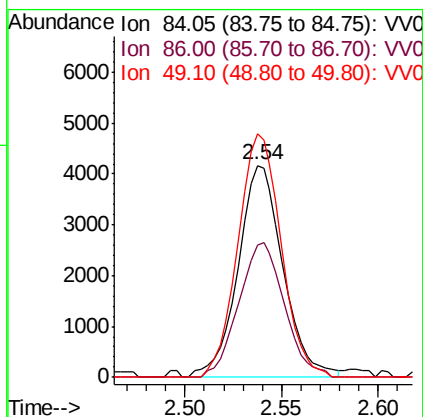
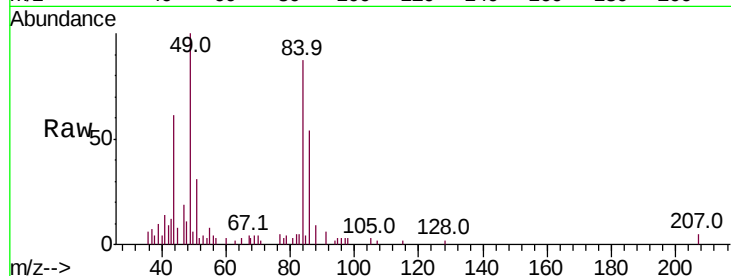




#16
Methvlene chloride
Concen: 0.931 ug/L
RT: 2.54 min Scan# 450
Delta R.T. 0.00 min
Lab File: VV007528.D
Acq: 13 Sep 2018 23:45

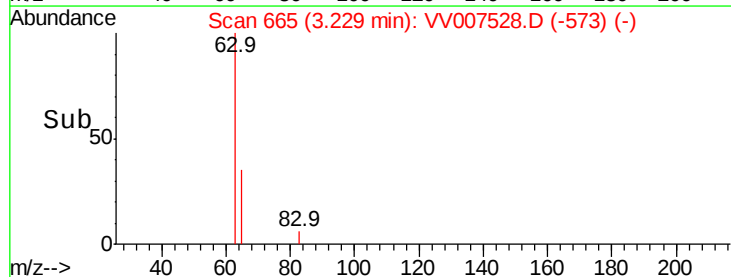
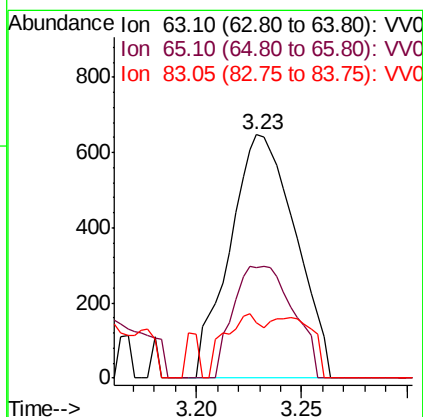
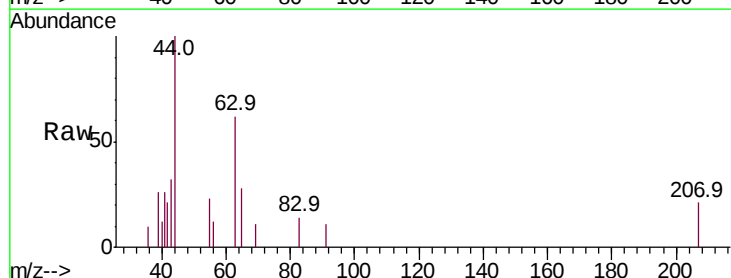
Instrument :
MSVOA_V
ClientSampleId :

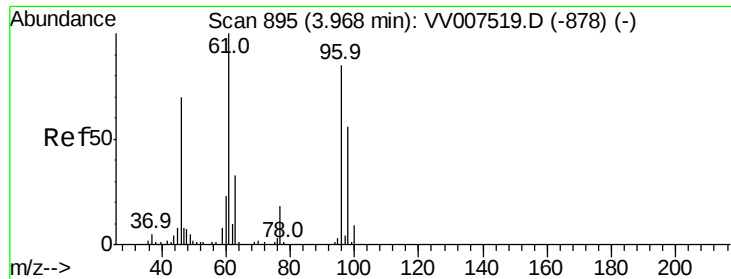
Tot Ion: 84 Resp: 6746
Ion Ratio Lower Upper
84 100
86 62.5 43.7 81.1
49 115.0 76.8 142.6



#19
1,1-Dichloroethane
Concen: 0.132 ug/L
RT: 3.23 min Scan# 665
Delta R.T. -0.00 min
Lab File: VV007528.D
Acq: 13 Sep 2018 23:45

Tgt Ion: 63 Resp: 1400
Ion Ratio Lower Upper
63 100
65 45.5 22.5 41.9#
83 22.7 10.4 19.2#

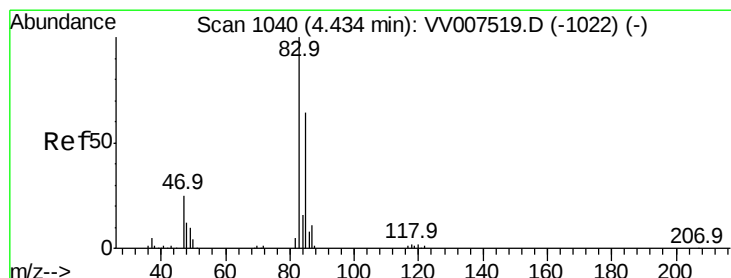
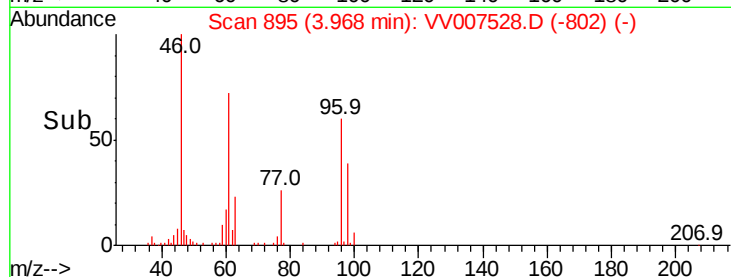
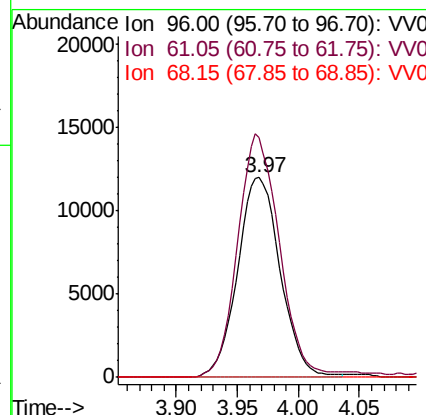
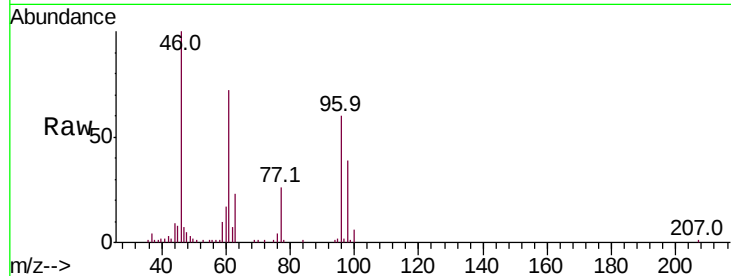




#22
 cis-1,2-Dichloroethene
 Concen: 4.042 ug/L
 RT: 3.97 min Scan# 895
 Delta R.T. 0.00 min
 Lab File: VV007528.D
 Acq: 13 Sep 2018 23:45

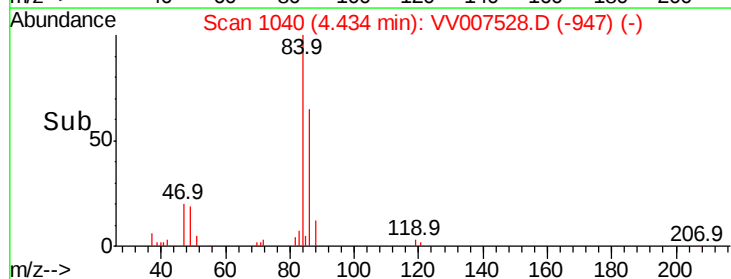
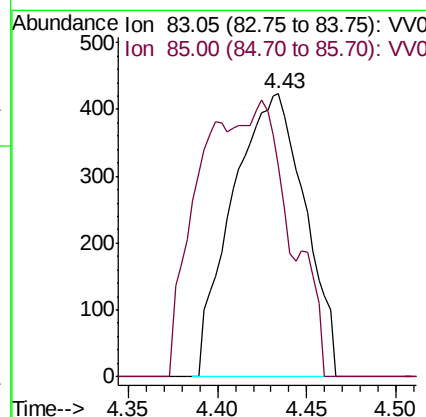
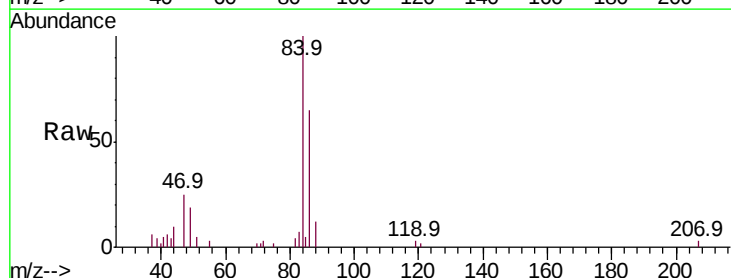
Instrument :
 MSVOA_V
 ClientSampleId :

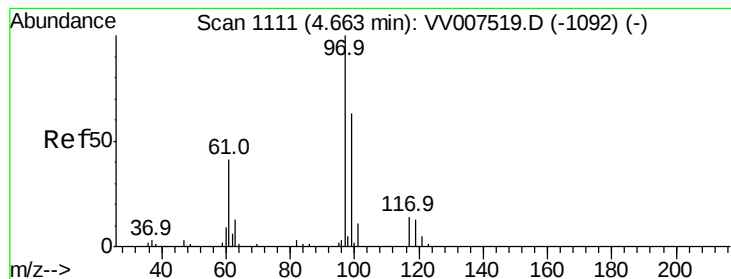
Tot Ion: 96 Resp: 29052
 Ion Ratio Lower Upper
 96 100
 61 120.1 85.3 158.5
 68 0.0 0.0 0.0



#25
 Chloroform
 Concen: 0.099 ug/L
 RT: 4.43 min Scan# 1040
 Delta R.T. 0.00 min
 Lab File: VV007528.D
 Acq: 13 Sep 2018 23:45

Tgt Ion: 83 Resp: 1200
 Ion Ratio Lower Upper
 83 100
 85 74.9 45.5 84.5





#29

1,1,1-Trichloroethane

Concen: 1.264 ug/L

RT: 4.66 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VV007528.D

Acq: 13 Sep 2018 23:45

Instrument :
MSVOA_V
ClientSampleId :

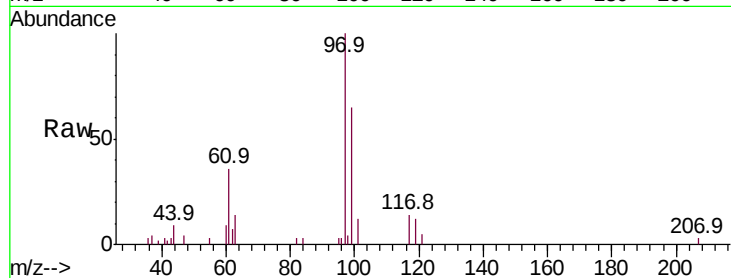
Tot Ion: 97 Resp: 14019

Ion Ratio Lower Upper

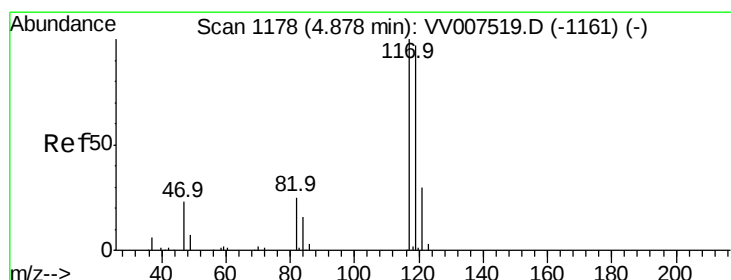
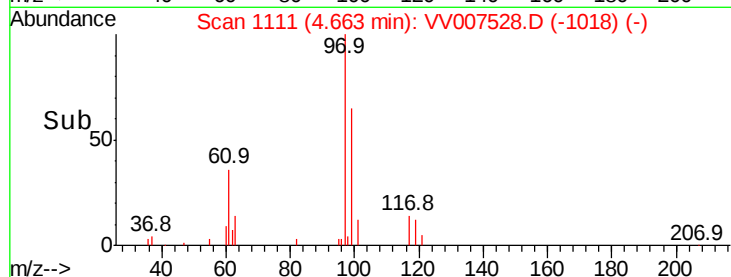
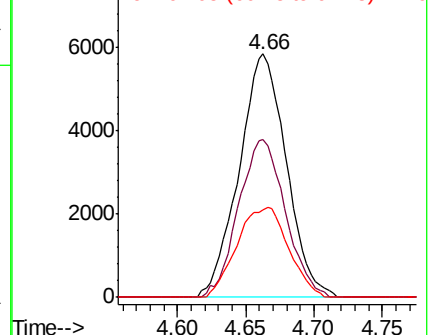
97 100

99 64.3 50.7 76.1

61 40.3 32.5 48.7



Abundance Ion 96.95 (96.65 to 97.65): VV0
Ion 99.05 (98.75 to 99.75): VV0
Ion 61.05 (60.75 to 61.75): VV0



#31

Carbon tetrachloride

Concen: 0.185 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. -0.22 min

Lab File: VV007528.D

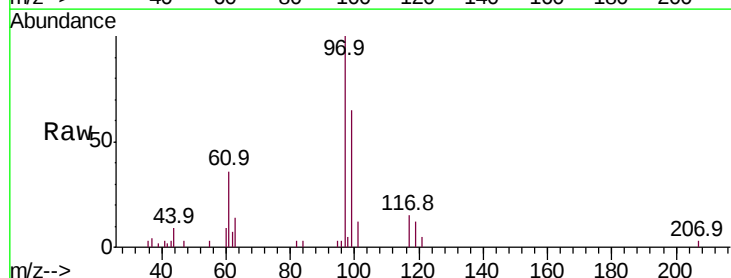
Acq: 13 Sep 2018 23:45

Tgt Ion: 117 Resp: 1925

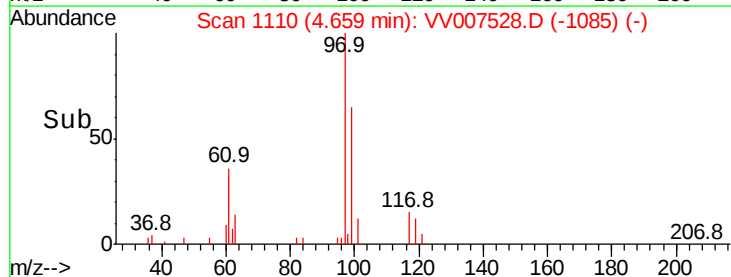
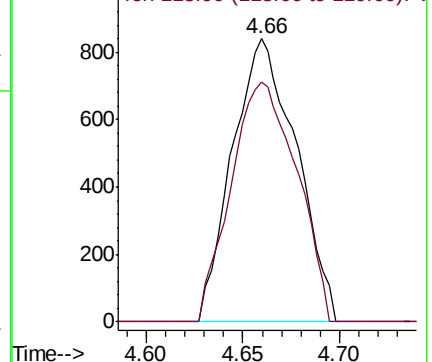
Ion Ratio Lower Upper

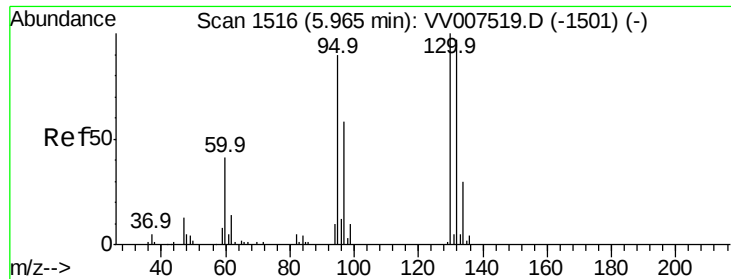
117 100

119 87.2 77.5 116.3



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 118.90 (118.60 to 119.60): V





#34

Trichloroethene

Concen: 25.581 ug/L

RT: 5.96 min Scan# 1516

Delta R.T. 0.00 min

Lab File: VV007528.D

Acq: 13 Sep 2018 23:45

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 95 Resp: 184747

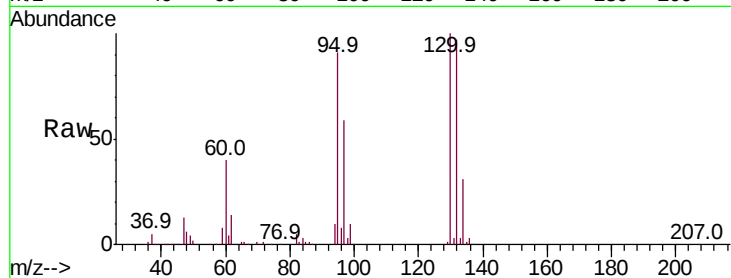
Ion Ratio Lower Upper

95 100

97 64.8 45.5 84.5

132 106.8 74.9 139.1

130 110.4 80.0 148.6

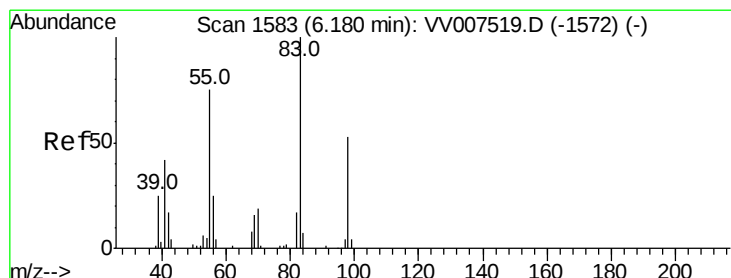
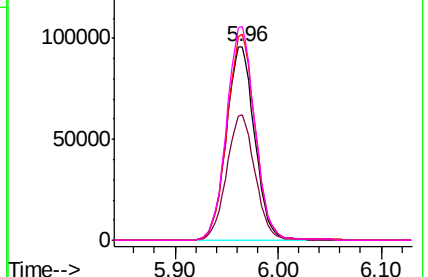
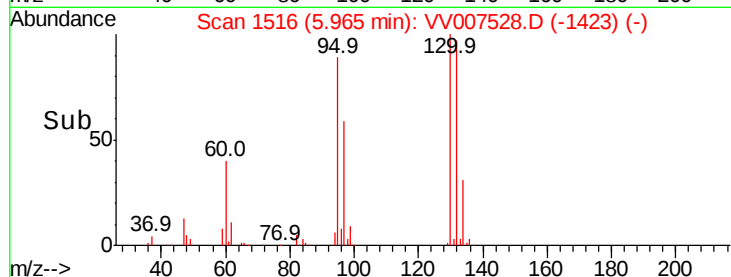


Abundance Ion 95.00 (94.70 to 95.70): VV0

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

Methylcyclohexane

Concen: 0.880 ug/L

RT: 6.13 min Scan# 1566

Delta R.T. -0.05 min

Lab File: VV007528.D

Acq: 13 Sep 2018 23:45

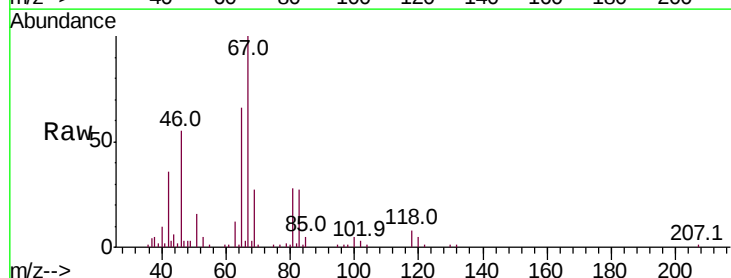
Tgt Ion: 83 Resp: 9812

Ion Ratio Lower Upper

83 100

55 0.9 55.0 82.4#

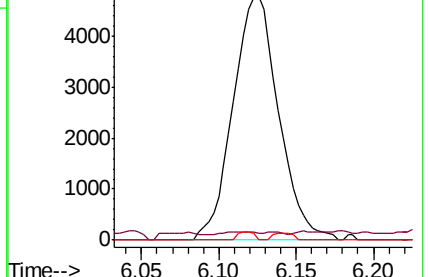
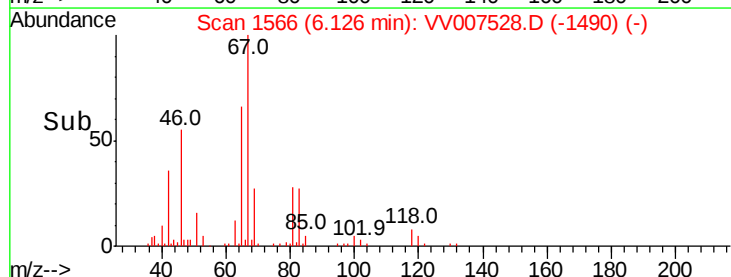
98 0.0 37.6 56.4#

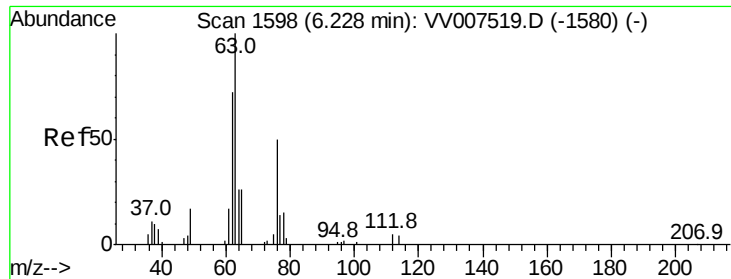


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

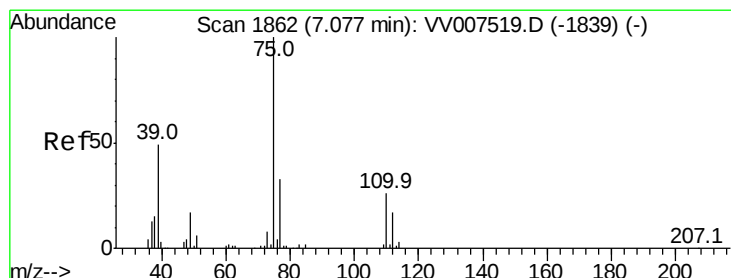
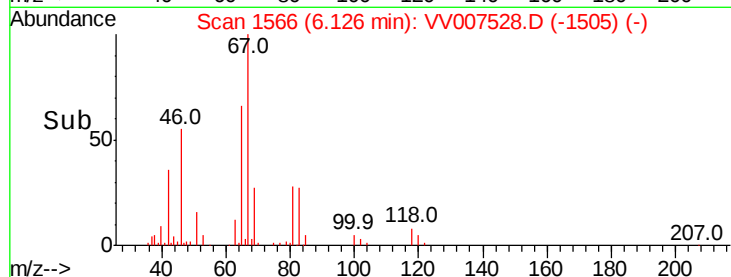
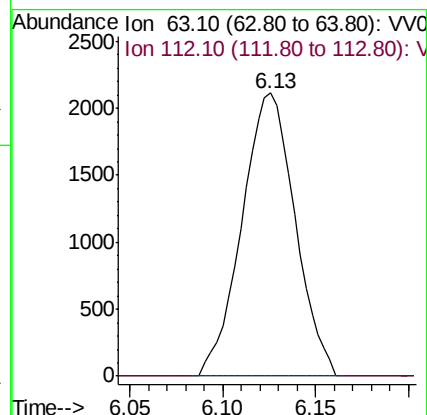
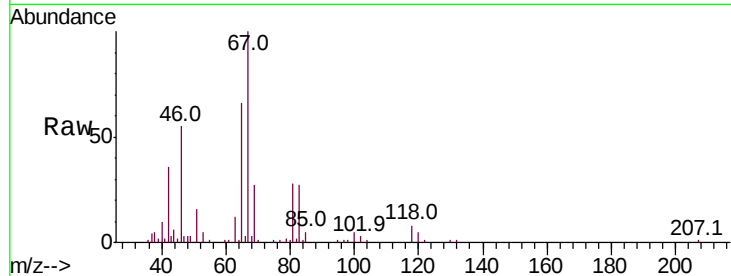




#37
 1,2-Dichloropropane
 Concen: 0.725 ug/L
 RT: 6.13 min Scan# 1566
 Delta R.T. -0.10 min
 Lab File: VV007528.D
 Acq: 13 Sep 2018 23:45

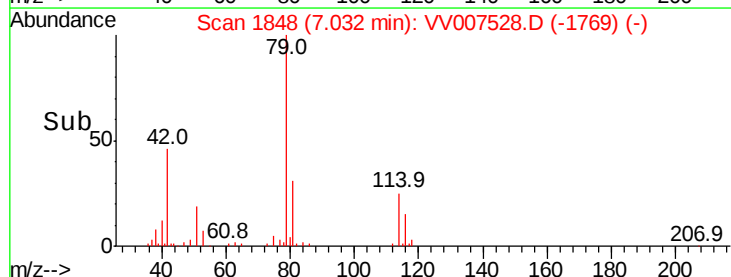
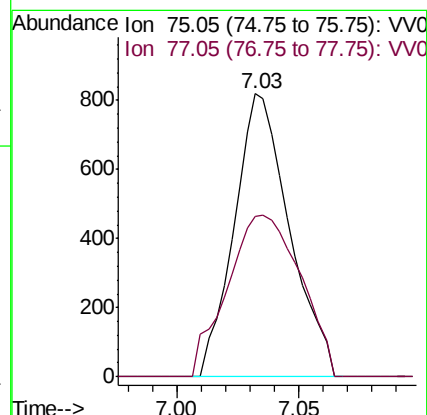
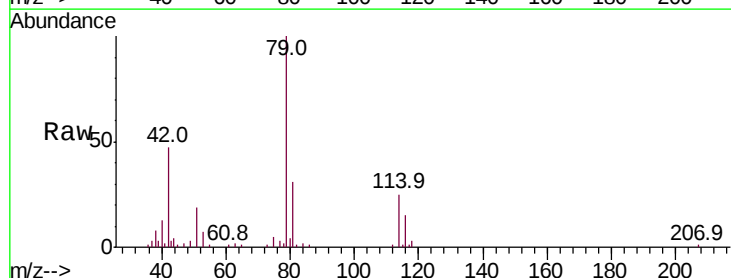
Instrument :
 MSVOA_V
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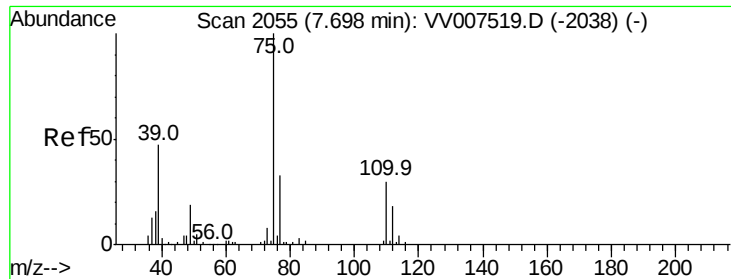
Tot Ion: 63 Resp: 4207
 Ion Ratio Lower Upper
 63 100
 112 0.0 4.1 6.1#



#39
 cis-1,3-Dichloropropene
 Concen: 0.139 ug/L
 RT: 7.03 min Scan# 1848
 Delta R.T. -0.04 min
 Lab File: VV007528.D
 Acq: 13 Sep 2018 23:45

Tgt Ion: 75 Resp: 1282
 Ion Ratio Lower Upper
 75 100
 77 56.5 22.0 41.0#





#44

trans-1,3-Dichloropropene

Concen: 0.105 ug/L

RT: 7.67 min Scan# 2046

Delta R.T. -0.03 min

Lab File: VV007528.D

Acq: 13 Sep 2018 23:45

Instrument :

MSVOA_V

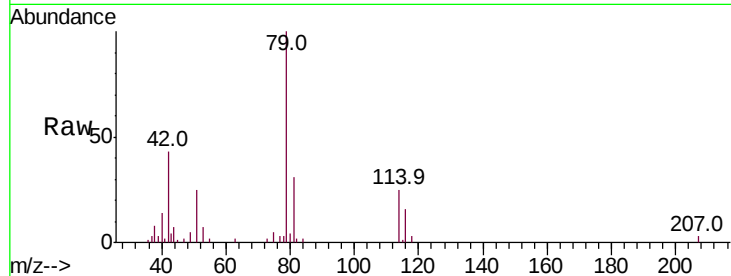
ClientSampleId :

Tot Ion: 75 Resp: 800

Ion Ratio Lower Upper

75 100

77 59.7 23.4 43.4#



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.67

400

300

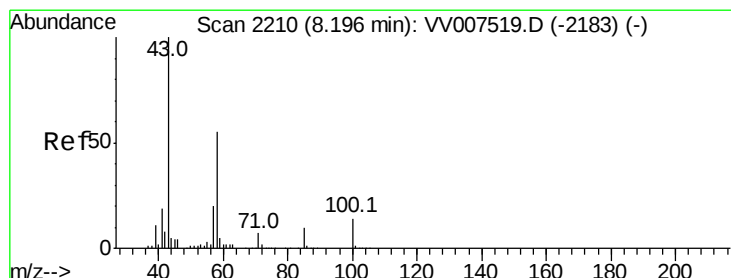
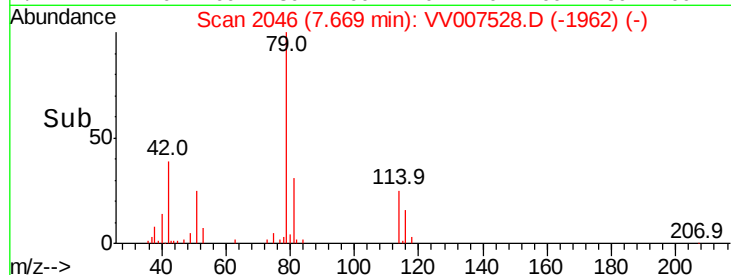
200

100

0

7.65 7.70

Time-->



#48

2-Hexanone

Concen: 2.122 ug/L

RT: 8.20 min Scan# 2210

Delta R.T. 0.00 min

Lab File: VV007528.D

Acq: 13 Sep 2018 23:45

Tgt Ion: 43 Resp: 5161

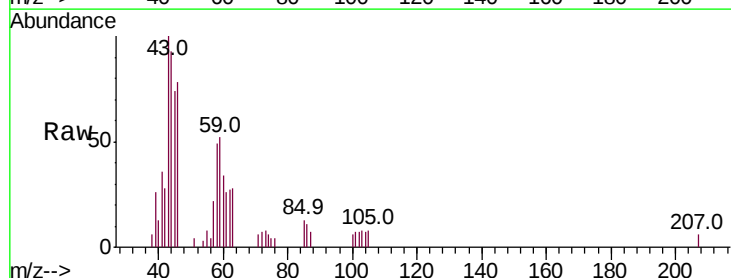
Ion Ratio Lower Upper

43 100

58 0.0 49.8 74.6#

57 1.9 18.2 27.4#

100 3.6 11.0 16.4#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 57.20 (56.90 to 57.90): VV0

Ion 100.15 (99.85 to 100.85): VV0

5000

4000

3000

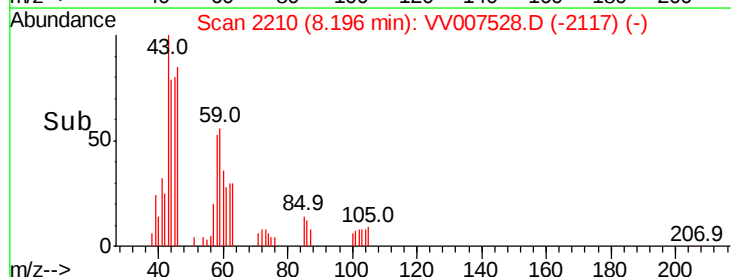
2000

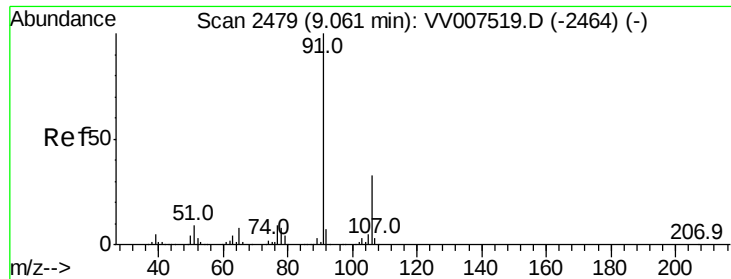
1000

0

8.15 8.20 8.25

Time-->





#52

Ethylbenzene

Concen: 0.094 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. -0.00 min

Lab File: VV007528.D

Acq: 13 Sep 2018 23:45

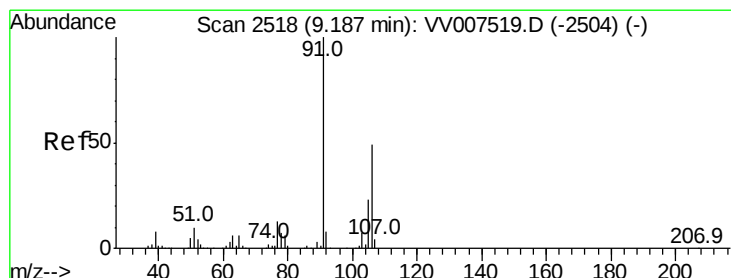
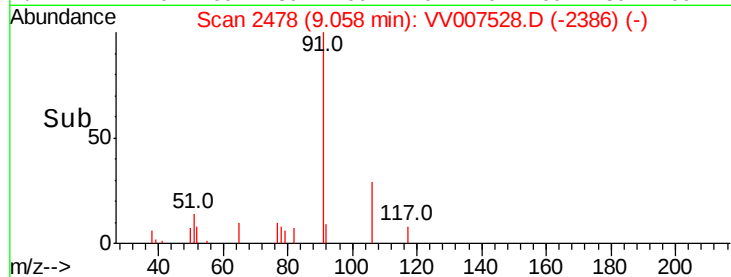
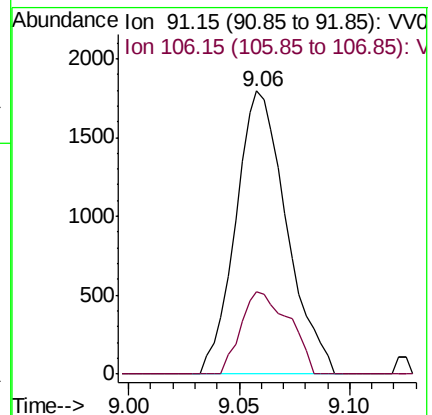
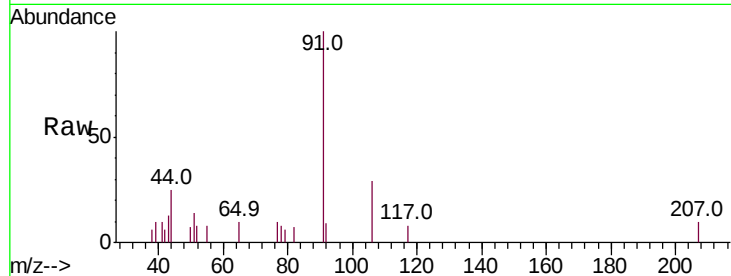
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 2874

Ion Ratio Lower Upper

91 100

106 28.9 22.0 41.0



#53

m,p-xylene

Concen: 0.330 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. -0.00 min

Lab File: VV007528.D

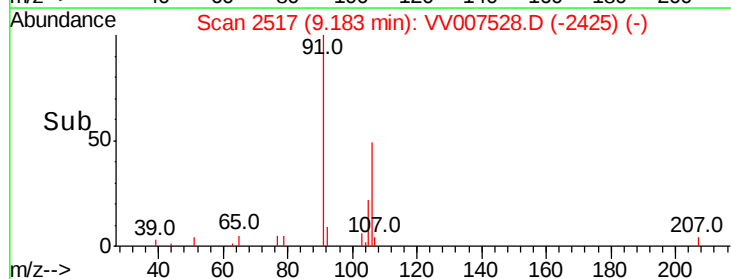
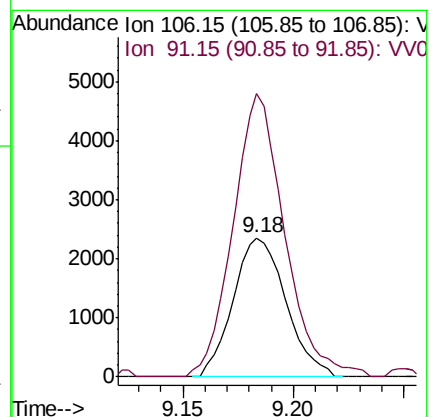
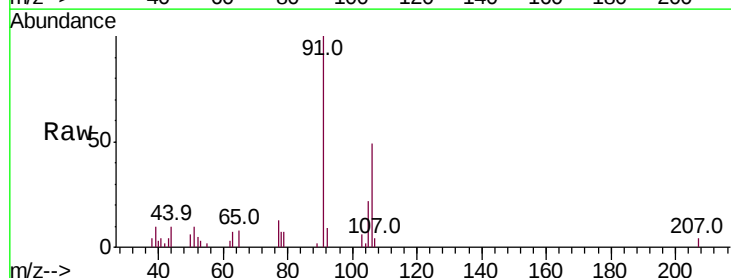
Acq: 13 Sep 2018 23:45

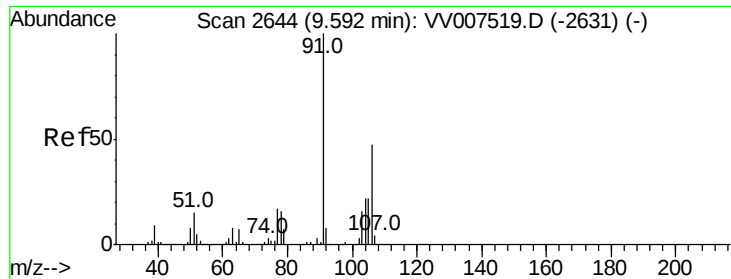
Tgt Ion: 106 Resp: 3922

Ion Ratio Lower Upper

106 100

91 203.9 137.2 254.8





#54

o-xylene

Concen: 0.099 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. -0.00 min

Lab File: VV007528.D

Acq: 13 Sep 2018 23:45

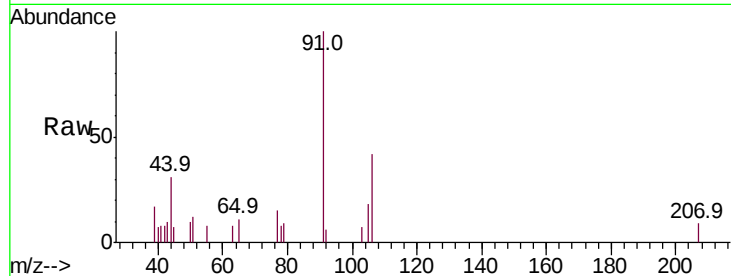
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:106 Resp: 1147

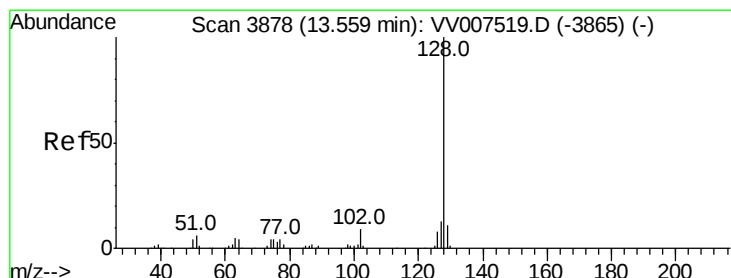
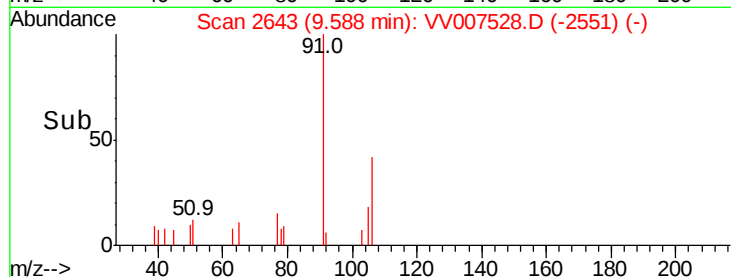
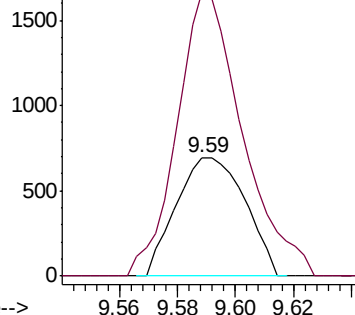
Ion Ratio Lower Upper

106 100

91 238.2 147.6 274.0



Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0



#69

Naphthalene

Concen: 0.266 ug/L

RT: 13.56 min Scan# 3879

Delta R.T. 0.00 min

Lab File: VV007528.D

Acq: 13 Sep 2018 23:45

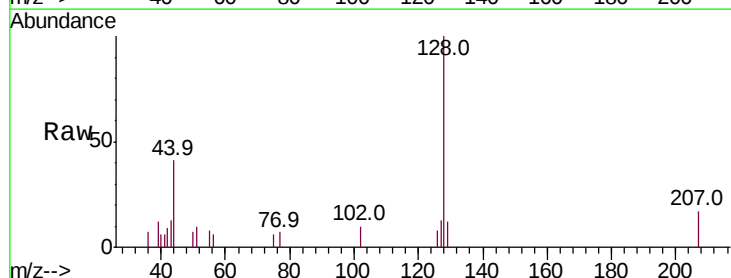
Tgt Ion:128 Resp: 2753

Ion Ratio Lower Upper

128 100

129 9.3 8.5 12.7

127 12.5 10.5 15.7



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

