

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV092818\
 Data File : VV007987.D
 Acq On : 29 Sep 2018 06:51
 Operator : SY/MD
 Sample : VSTDCCC005EC
 Misc : 25.0 mL/MSVOA V/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

Quant Time: Oct 01 04:59:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Oct 01 04:55:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	94783	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	92287	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	49951	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	18722	3.68	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	73.60%
7) Chloroethane-d5	1.59	69	17724	4.04	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	80.80%
11) 1,1-Dichloroethene-d2	2.14	63	47030	4.10	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	82.00%
20) 2-Butanone-d5	3.96	46	69330	45.36	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	90.72%
24) Chloroform-d	4.41	84	51435	4.44	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.80%
26) 1,2-Dichloroethane-d4	5.09	65	27371	4.30	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.00%
32) Benzene-d6	5.10	84	94607	4.29	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.80%
36) 1,2-Dichloropropane-d6	6.12	67	30011	4.30	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	86.00%
41) Toluene-d8	7.36	98	95253	4.25	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.00%
43) trans-1,3-Dichloropropene-	7.67	79	10581	3.93	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	78.60%
46) 2-Hexanone-d5	8.14	63	54455	45.87	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	91.74%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	24452	4.54	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	90.80%
64) 1,2-Dichlorobenzene-d4	11.68	152	39522	4.09	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	81.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	37254	4.686	ug/L 97
3) Chloromethane	1.25	50	33165	4.689	ug/L 97
5) Vinyl chloride	1.33	62	35325	4.665	ug/L 96
6) Bromomethane	1.54	94	13651	2.923	ug/L 100
8) Chloroethane	1.60	64	22423	4.910	ug/L 96
9) Trichlorofluoromethane	1.77	101	59392	4.804	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.15	101	33293	4.749	ug/L 99
12) 1,1-Dichloroethene	2.15	96	29988	4.786	ug/L 94
13) Acetone	2.21	43	47569	42.719	ug/L 99
14) Carbon disulfide	2.32	76	80266	4.726	ug/L 100
15) Methyl Acetate	2.47	43	12536	4.402	ug/L 99
16) Methylene chloride	2.54	84	32538	4.674	ug/L 92
17) Methyl tert-butyl Ether	2.81	73	73553	4.752	ug/L 98
18) trans-1,2-Dichloroethene	2.79	96	32950	4.771	ug/L 98
19) 1,1-Dichloroethane	3.23	63	56225	4.771	ug/L 98
21) 2-Butanone	4.05	43	79589	44.862	ug/L 99
22) cis-1,2-Dichloroethene	3.97	96	33877	4.845	ug/L 97

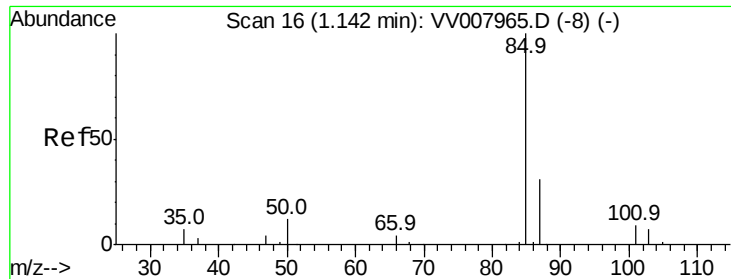
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.31	128	15599	5.129	ug/L	96
25) Chloroform	4.43	83	63100	4.951	ug/L	99
27) 1,2-Dichloroethane	5.19	62	38761	4.726	ug/L	96
29) 1,1,1-Trichloroethane	4.66	97	55184	4.973	ug/L	99
30) Cyclohexane	4.73	56	48779	4.676	ug/L	100
31) Carbon tetrachloride	4.88	117	49346	5.044	ug/L	100
33) Benzene	5.15	78	132652	5.020	ug/L	100
34) Trichloroethene	5.96	95	35484	4.689	ug/L	95
35) Methylcyclohexane	6.18	83	51889	4.573	ug/L	99
37) 1,2-Dichloropropane	6.23	63	33835	5.012	ug/L	99
38) Bromodichloromethane	6.56	83	40844	5.060	ug/L	97
39) cis-1,3-Dichloropropene	7.08	75	41824	4.631	ug/L	98
40) 4-Methyl-2-pentanone	7.28	43	201187	47.480	ug/L	99
42) Toluene	7.43	91	147146	5.113	ug/L	97
44) trans-1,3-Dichloropropene	7.70	75	34180	4.553	ug/L	98
45) 1,1,2-Trichloroethane	7.89	97	23305	4.783	ug/L	97
47) Tetrachloroethene	8.02	164	33078	4.718	ug/L	97
48) 2-Hexanone	8.19	43	139974	47.497	ug/L	98
49) Dibromochloromethane	8.30	129	27688	4.978	ug/L	98
50) 1,2-Dibromoethane	8.40	107	22130	4.969	ug/L	97
51) Chlorobenzene	8.93	112	97253	4.892	ug/L	100
52) Ethylbenzene	9.06	91	155335	4.838	ug/L	100
53) m,p-xylene	9.18	106	60087	4.915	ug/L	98
54) o-xylene	9.59	106	57244	4.848	ug/L	98
55) Styrene	9.61	104	100631	4.990	ug/L	98
56) Isopropylbenzene	9.98	105	156758	4.902	ug/L	98
58) 1,1,1,2,2-Tetrachloroethane	10.29	83	27364	4.782	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	20065	4.777	ug/L	99
61) Bromoform	9.78	173	15491	5.164	ug/L	97
62) 1,3-Dichlorobenzene	11.23	146	78417	4.755	ug/L	98
63) 1,4-Dichlorobenzene	11.32	146	81704	4.765	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	76217	4.903	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	3889	4.911	ug/L	89
67) 1,3,5-Trichlorobenzene	12.70	180	66387	4.702	ug/L	98
68) 1,2,4-trichlorobenzene	13.32	180	52696	4.415	ug/L	100
69) Naphthalene	13.56	128	70303	4.211	ug/L	99
70) 1,2,3-Trichlorobenzene	13.80	180	49767	4.605	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 4.686 ug/L

RT: 1.14 min Scan# 16

Delta R.T. 0.00 min

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MSVOA_V

ClientSampleId :

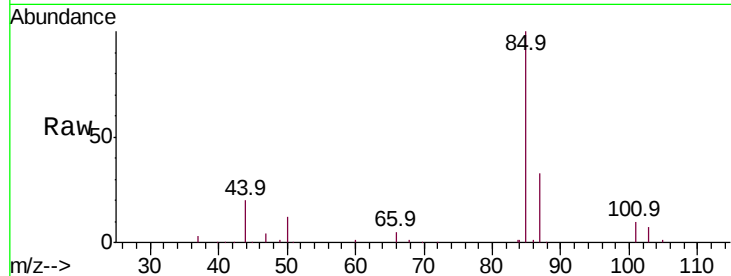
VSTD00562

Tot Ion: 85 Resp: 37254

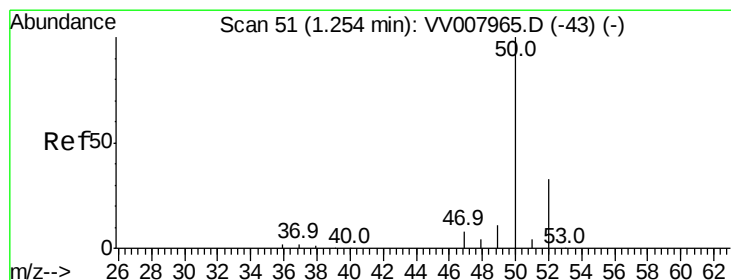
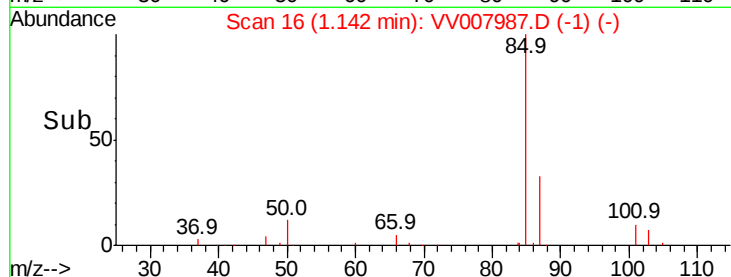
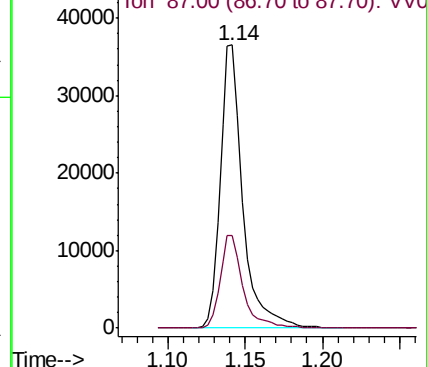
Ion Ratio Lower Upper

85 100

87 33.2 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VV007965.D (-8) (-)



#3

Chloromethane

Concen: 4.689 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV007987.D

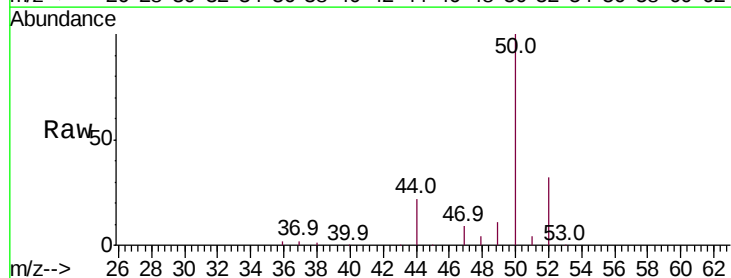
Acq: 29 Sep 2018 06:51

Tgt Ion: 50 Resp: 33165

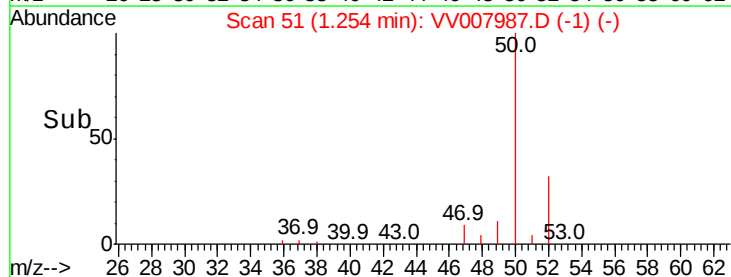
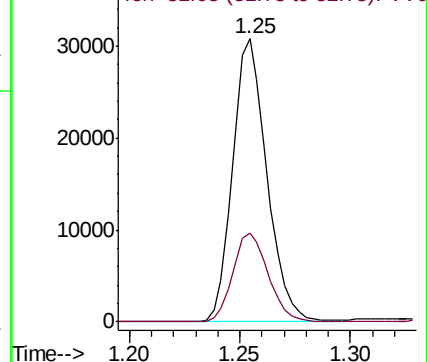
Ion Ratio Lower Upper

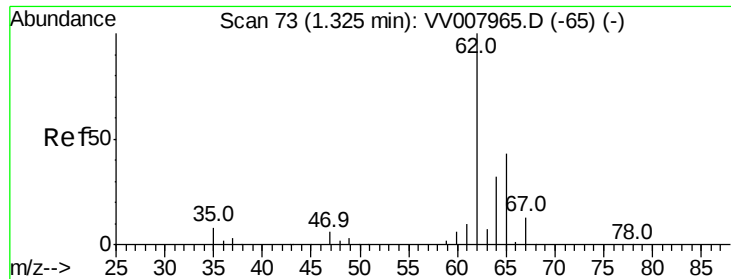
50 100

52 31.5 23.4 43.4



Abundance Ion 50.05 (49.75 to 50.75): VV007965.D (-43) (-)





#5

Vinyl chloride

Concen: 4.665 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV007987.D

Acq: 29 Sep 2018 06:51

Instrument :

MSVOA_V

ClientSampleId :

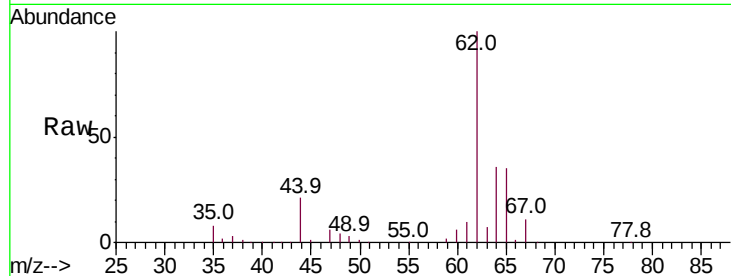
VSTD00562

Tot Ion: 62 Resp: 35325

Ion Ratio Lower Upper

62 100

64 36.4 24.0 44.6



Abundance Ion 62.00 (61.70 to 62.70): VV007965.D (-65) (-)

Ion 64.10 (63.80 to 64.80): VV007987.D (-1) (-)

1.33

40000

30000

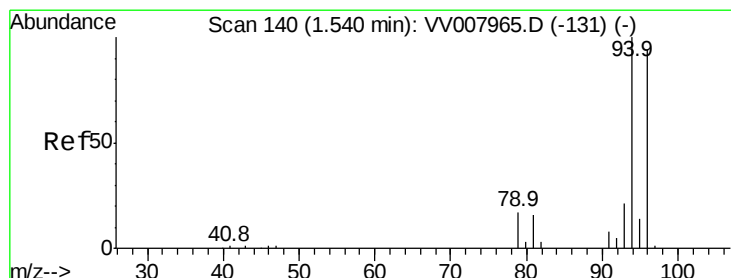
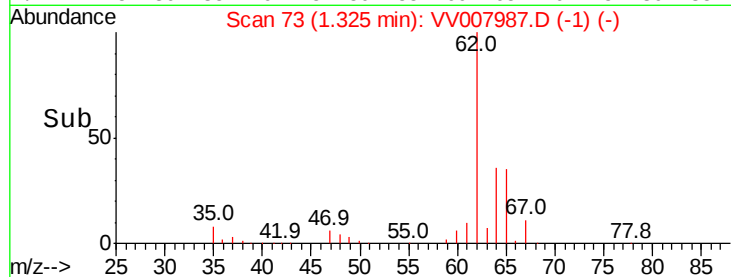
20000

10000

0

1.25 1.30 1.35 1.40

Time-->



#6

Bromomethane

Concen: 2.923 ug/L

RT: 1.54 min Scan# 139

Delta R.T. -0.00 min

Lab File: VV007987.D

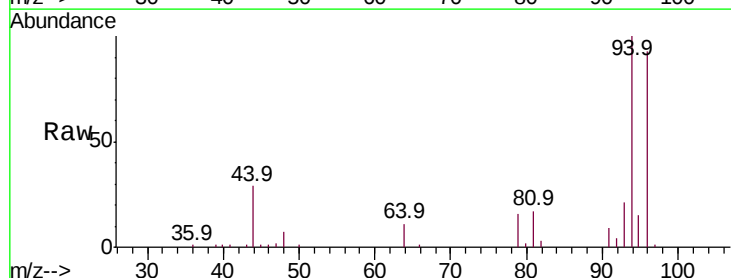
Acq: 29 Sep 2018 06:51

Tgt Ion: 94 Resp: 13651

Ion Ratio Lower Upper

94 100

96 93.3 65.2 121.2



Abundance Ion 94.00 (93.70 to 94.70): VV007965.D (-131) (-)

Ion 96.00 (95.70 to 96.70): VV007987.D (-47) (-)

1.54

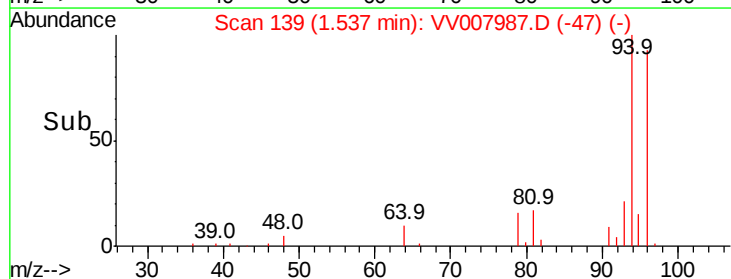
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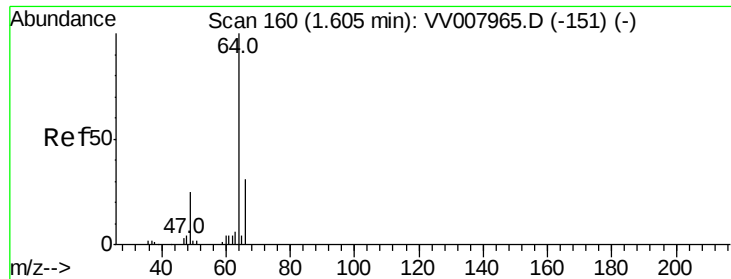
5000

0

1.50 1.55

Time-->

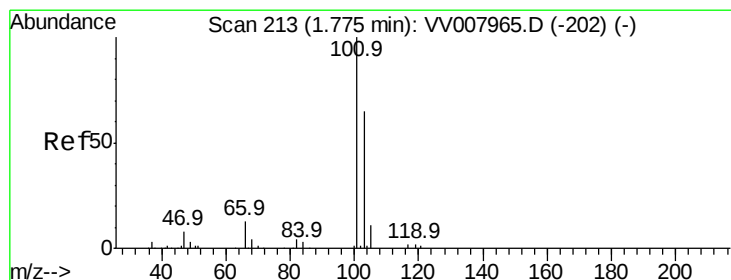
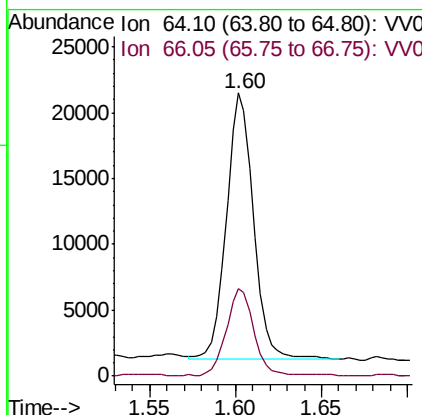
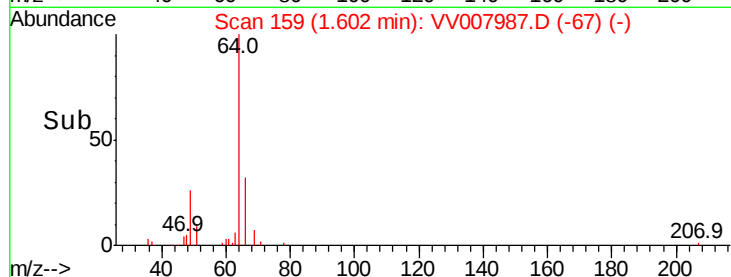
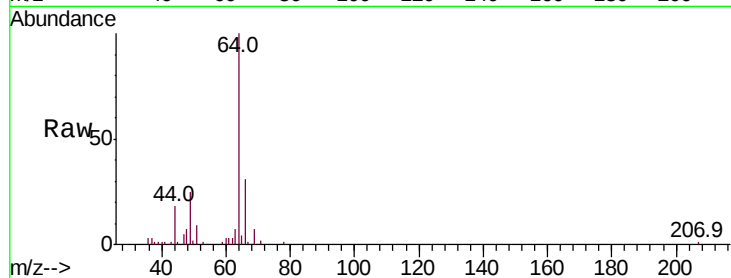




#8
Chloroethane
Concen: 4.910 ug/L
RT: 1.60 min Scan# 159
Delta R.T. -0.00 min
Lab File: VV007987.D
Acq: 29 Sep 2018 06:51

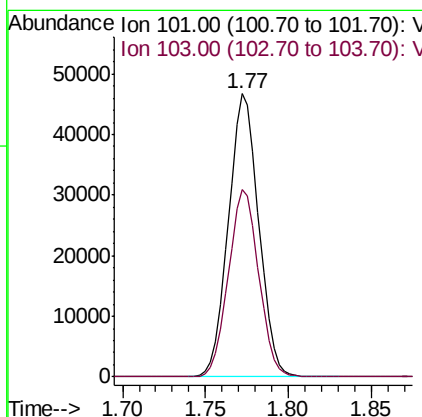
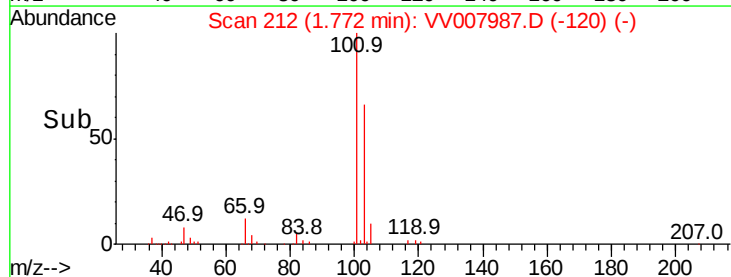
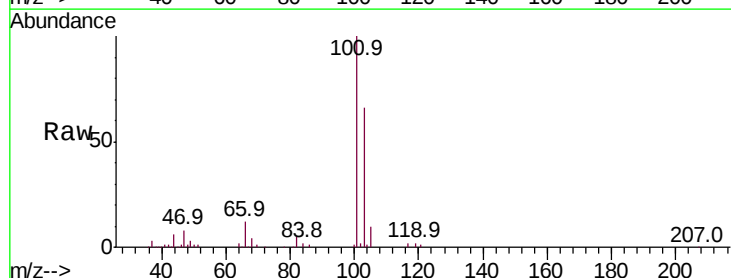
Instrument :
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VSTD00562

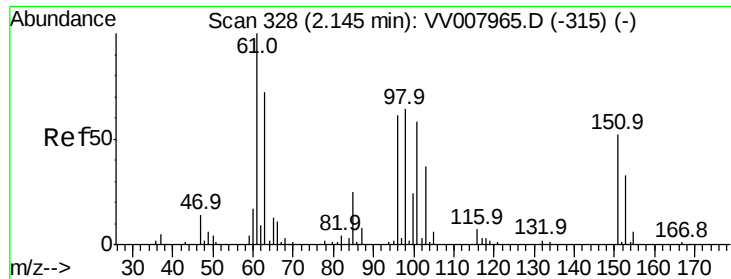
Tot Ion: 64 Resp: 22423
Ion Ratio Lower Upper
64 100
66 30.8 23.1 42.9



#9
Trichlorofluoromethane
Concen: 4.804 ug/L
RT: 1.77 min Scan# 212
Delta R.T. -0.00 min
Lab File: VV007987.D
Acq: 29 Sep 2018 06:51

Tgt Ion: 101 Resp: 59392
Ion Ratio Lower Upper
101 100
103 66.1 51.5 77.3





#10

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

Concen: 4.749 ug/L

RT: 2.15 min Scan# 328

Delta R.T. 0.00 min

Lab File: VV007987.D

Acq: 29 Sep 2018 06:51

Instrument :

MSVOA_V

ClientSampleId :

VSTD00562

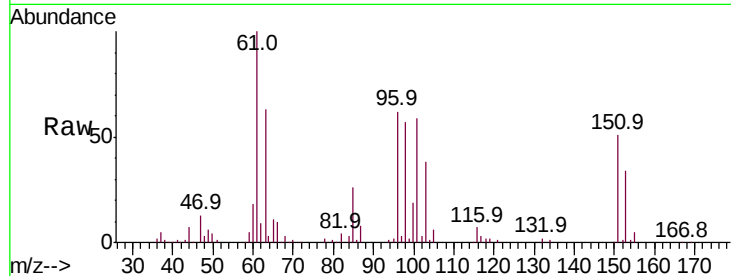
Tot Ion:101 Resp: 33293

Ion Ratio Lower Upper

101 100

85 44.0 34.7 52.1

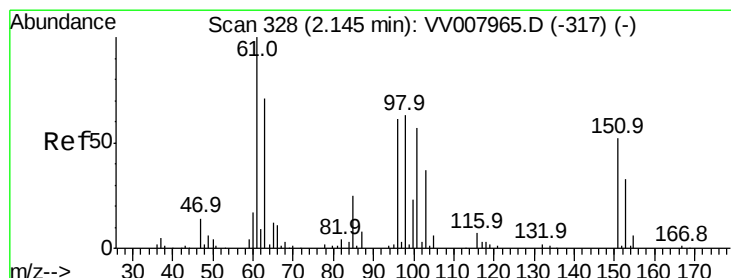
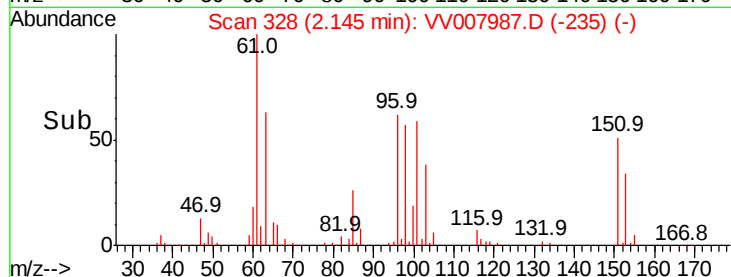
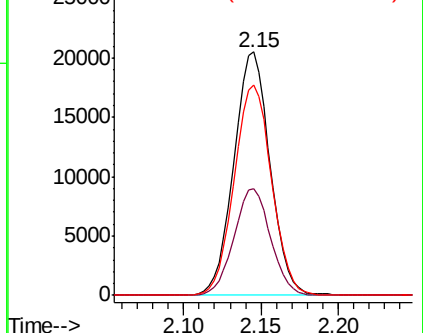
151 89.2 72.2 108.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.786 ug/L

RT: 2.15 min Scan# 328

Delta R.T. 0.00 min

Lab File: VV007987.D

Acq: 29 Sep 2018 06:51

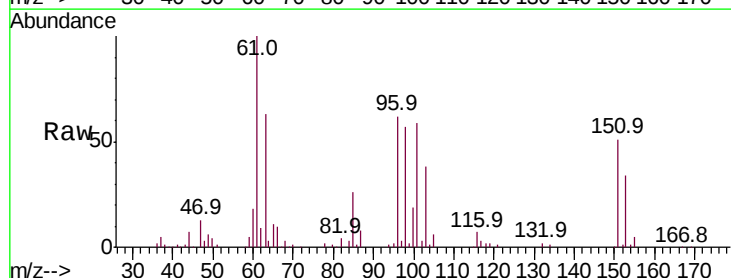
Tgt Ion: 96 Resp: 29988

Ion Ratio Lower Upper

96 100

61 161.3 114.1 211.9

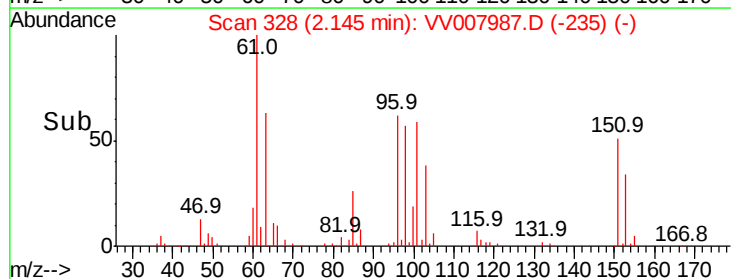
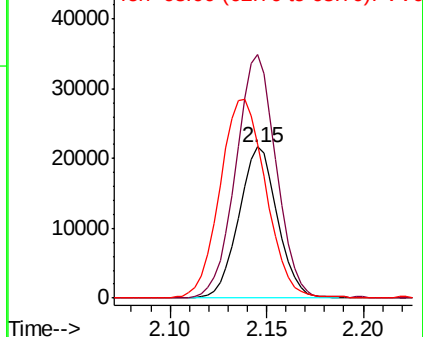
63 101.9 81.5 151.3

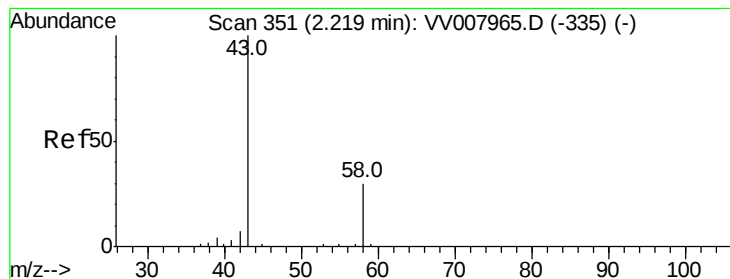


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 42.719 ug/L

RT: 2.21 min Scan# 348

Delta R.T. -0.01 min

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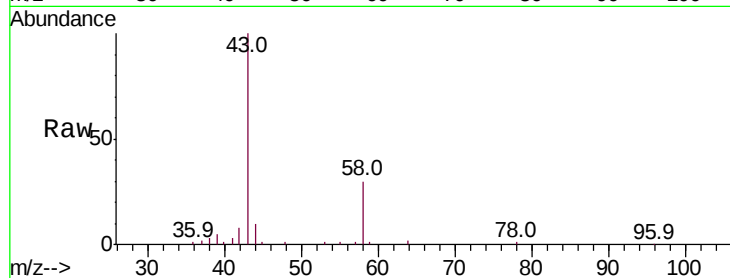
VSTD00562

Tot Ion: 43 Resp: 47569

Ion Ratio Lower Upper

43 100

58 30.3 0.0 62.0



Abundance Ion 43.05 (42.75 to 43.75): VV007965.D (-335) (-)

Ion 58.05 (57.75 to 58.75): VV007965.D (-335) (-)

25000

20000

15000

10000

5000

0

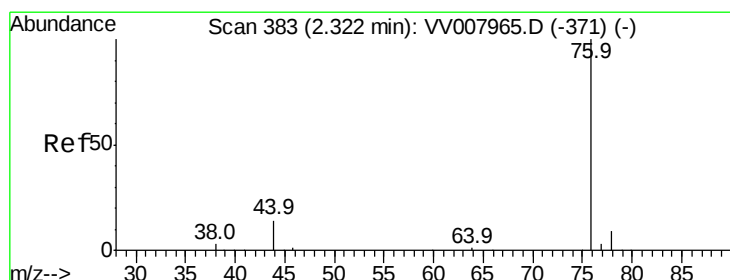
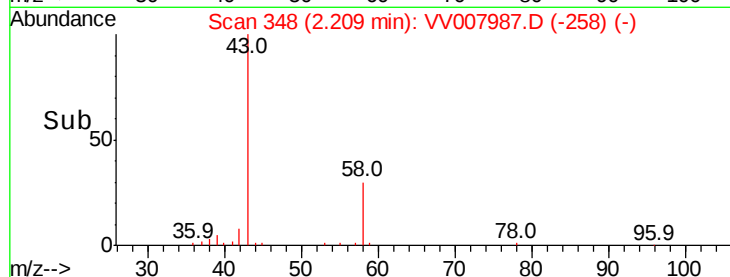
2.15

2.20

2.25

2.30

Time-->



#14

Carbon disulfide

Concen: 4.726 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VV007987.D

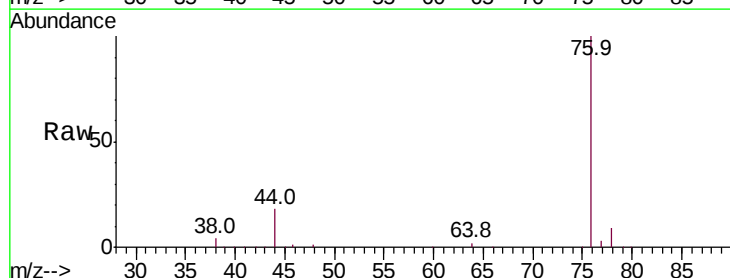
Acq: 29 Sep 2018 06:51

Tgt Ion: 76 Resp: 80266

Ion Ratio Lower Upper

76 100

78 8.9 7.2 10.8



Abundance Ion 76.05 (75.75 to 76.75): VV007965.D (-371) (-)

Ion 78.00 (77.70 to 78.70): VV007965.D (-371) (-)

60000

50000

40000

30000

20000

10000

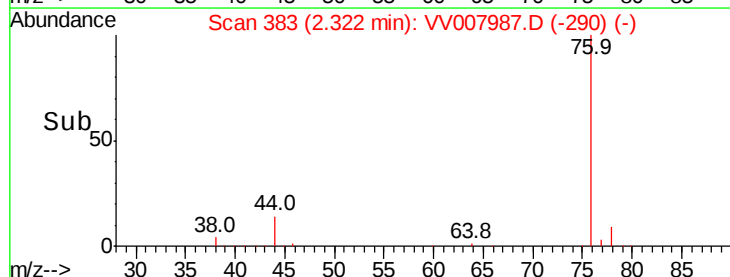
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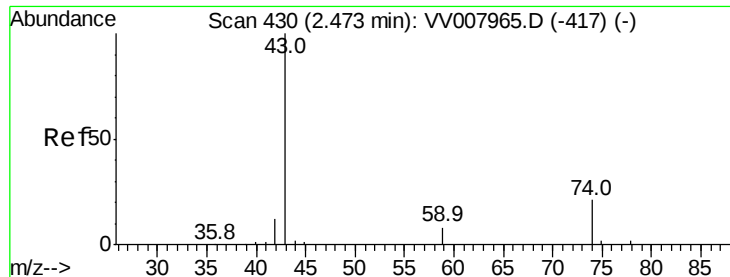
2.30

2.32

2.40

Time-->





#15

Methyl Acetate

Concen: 4.402 ug/L

RT: 2.47 min Scan# 429

Delta R.T. -0.00 min

Lab File: VV007987.D

Acq: 29 Sep 2018 06:51

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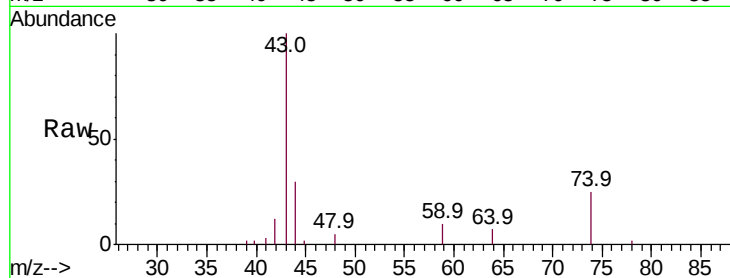
VSTD00562

Tot Ion: 43 Resp: 12536

Ion Ratio Lower Upper

43 100

74 24.7 19.5 29.3



Abundance Ion 43.05 (42.75 to 43.75): VV007965.D (-417) (-)

Ion 74.05 (73.75 to 74.75): VV007965.D (-417) (-)

2.47

6000

4000

2000

0

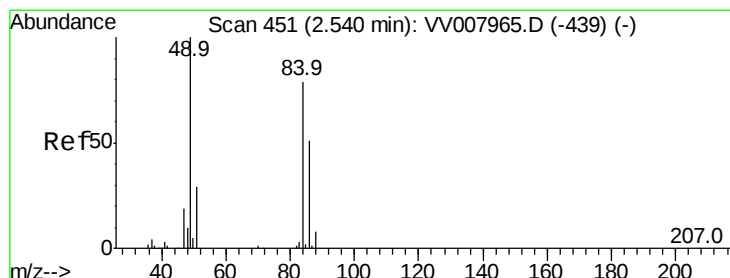
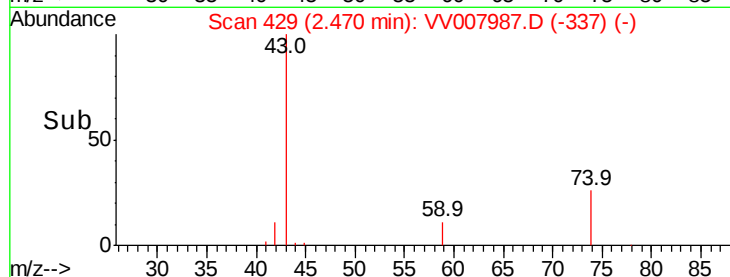
Time-->

2.40

2.45

2.50

2.55



#16

Methylene chloride

Concen: 4.674 ug/L

RT: 2.54 min Scan# 451

Delta R.T. 0.00 min

Lab File: VV007987.D

Acq: 29 Sep 2018 06:51

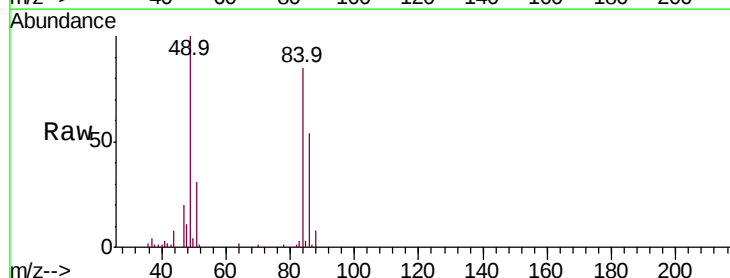
Tgt Ion: 84 Resp: 32538

Ion Ratio Lower Upper

84 100

86 63.6 47.3 87.8

49 118.2 90.0 167.2



Abundance Ion 84.05 (83.75 to 84.75): VV007965.D (-439) (-)

Ion 86.00 (85.70 to 86.70): VV007965.D (-439) (-)

Ion 49.10 (48.80 to 49.80): VV007965.D (-439) (-)

2.54

30000

20000

10000

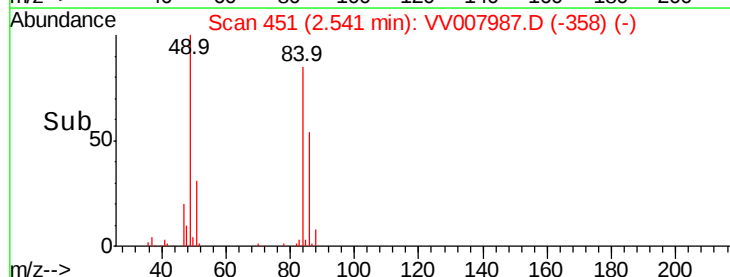
0

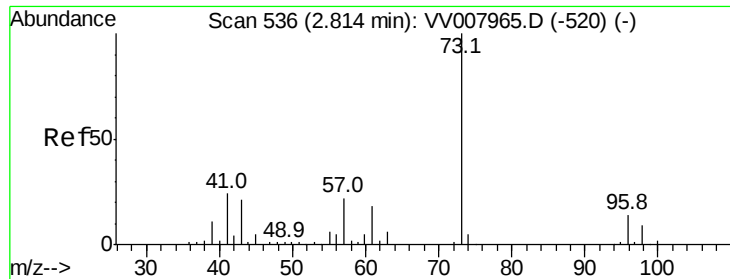
Time-->

2.50

2.55

2.60

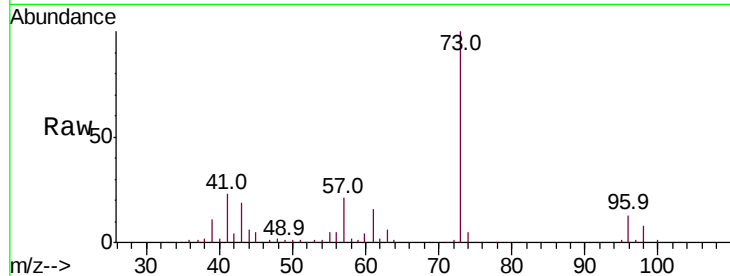




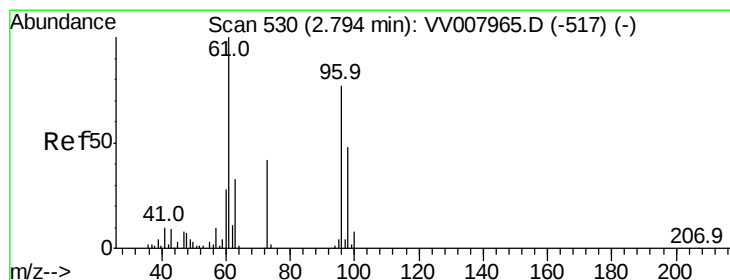
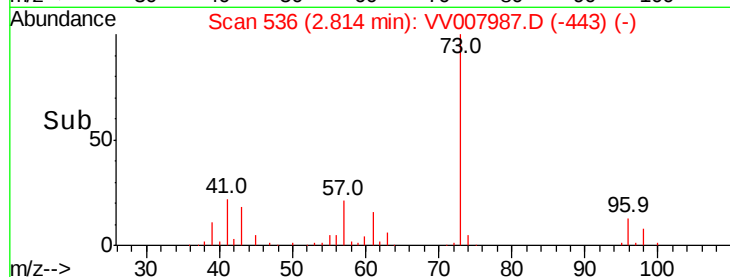
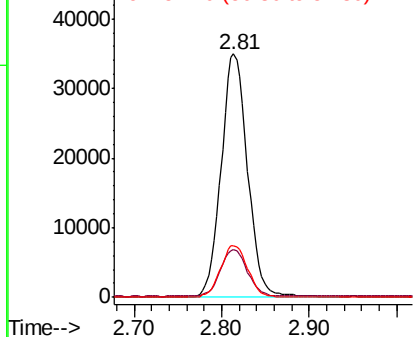
#17
Methvl tert-butvl Ether
Concen: 4.752 ug/L
RT: 2.81 min Scan# 536
Delta R.T. 0.00 min
Lab File: VV007987.D
Acq: 29 Sep 2018 06:51

Instrument :
MSVOA_V
ClientSampleId :
VSTD00562

Tot Ion: 73 Resp: 73553
Ion Ratio Lower Upper
73 100
43 18.9 16.8 25.2
57 21.8 17.6 26.4

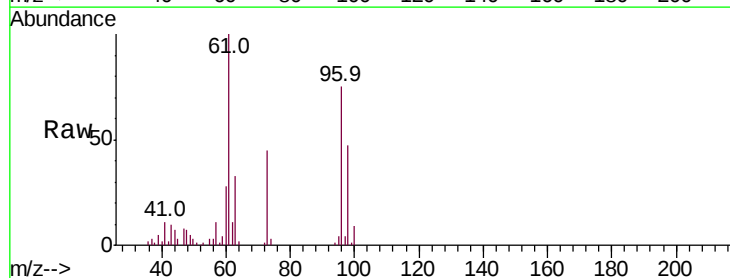


Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0

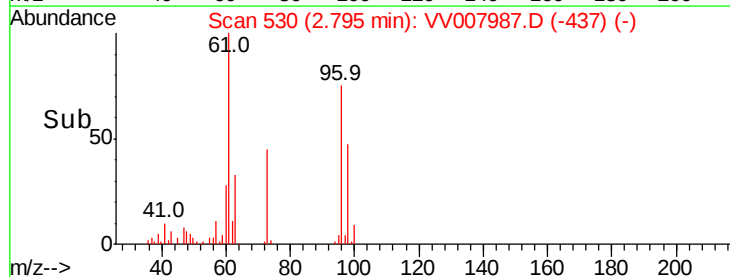
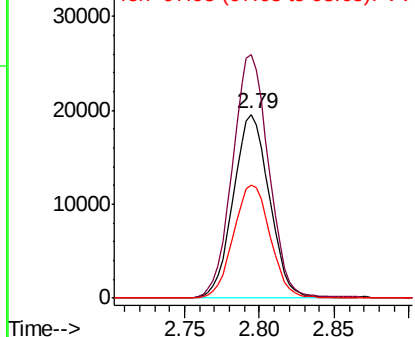


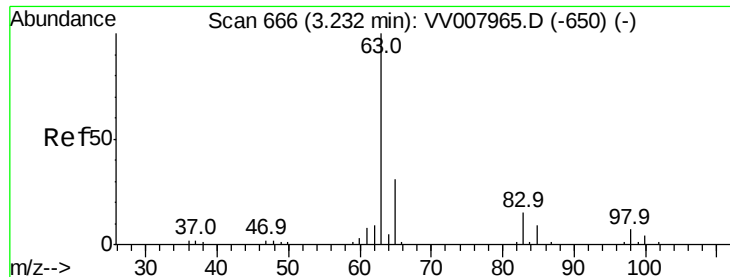
#18
trans-1,2-Dichloroethene
Concen: 4.771 ug/L
RT: 2.79 min Scan# 530
Delta R.T. 0.00 min
Lab File: VV007987.D
Acq: 29 Sep 2018 06:51

Tgt Ion: 96 Resp: 32950
Ion Ratio Lower Upper
96 100
61 132.7 94.2 175.0
98 61.8 44.9 83.5



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

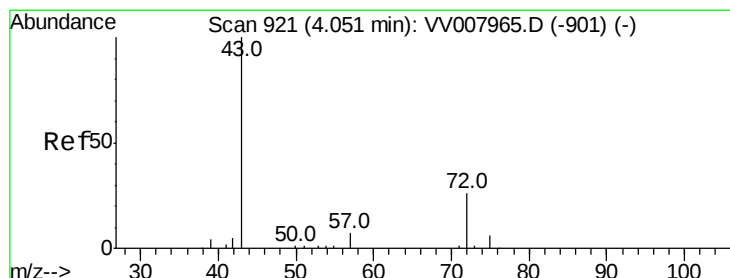
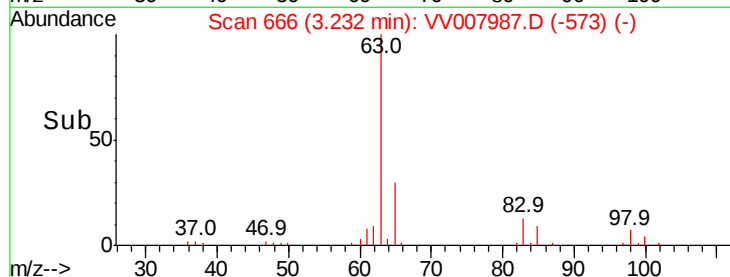
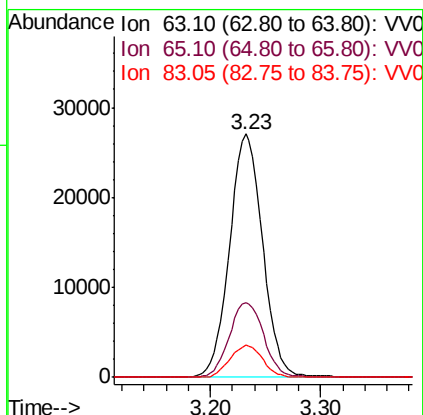
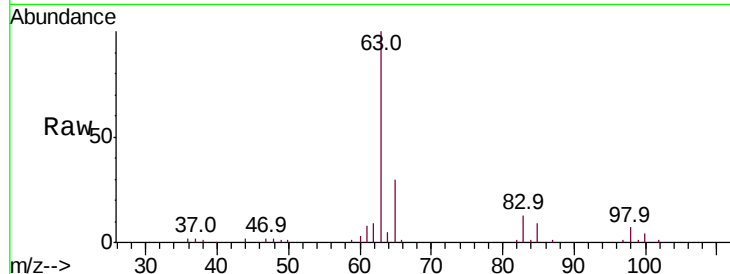




#19
 1,1-Dichloroethane
 Concen: 4.771 ug/L
 RT: 3.23 min Scan# 666
 Delta R.T. 0.00 min
 Lab File: VV007987.D
 Acq: 29 Sep 2018 06:51

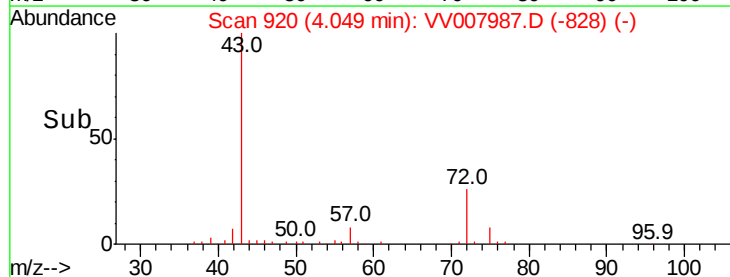
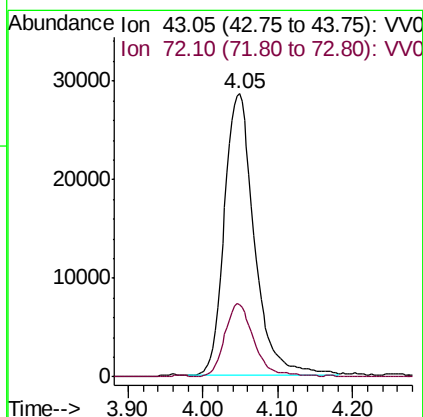
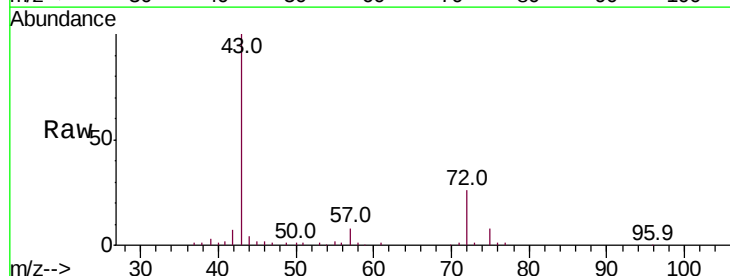
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

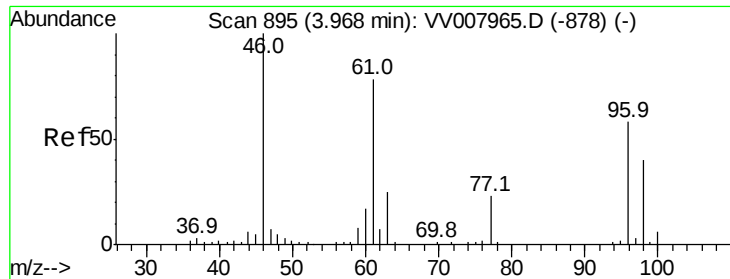
Tot Ion: 63 Resp: 56225
 Ion Ratio Lower Upper
 63 100
 65 30.4 22.3 41.5
 83 13.2 9.8 18.2



#21
 2-Butanone
 Concen: 44.862 ug/L
 RT: 4.05 min Scan# 920
 Delta R.T. -0.00 min
 Lab File: VV007987.D
 Acq: 29 Sep 2018 06:51

Tgt Ion: 43 Resp: 79589
 Ion Ratio Lower Upper
 43 100
 72 25.5 12.5 37.5



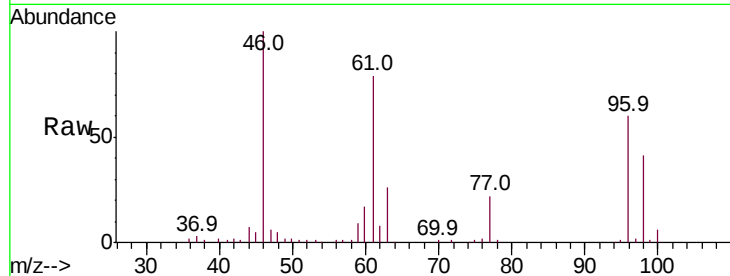


#22

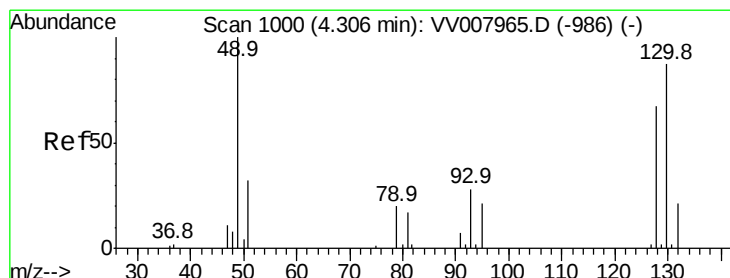
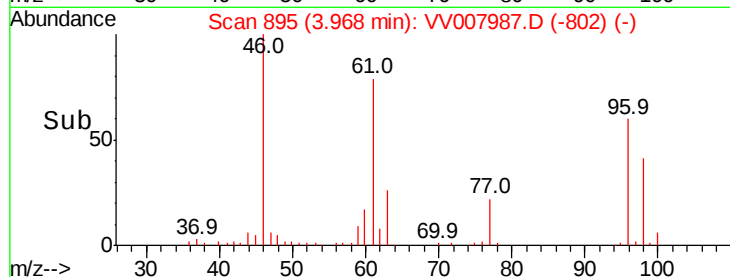
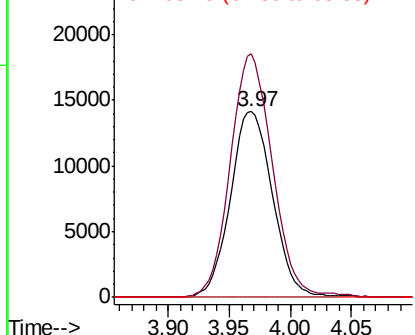
cis-1,2-Dichloroethene
 Concen: 4.845 ug/L
 RT: 3.97 min Scan# 895
 Delta R.T. 0.00 min
 Lab File: VV007987.D
 Acq: 29 Sep 2018 06:51

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

Tot Ion: 96 Resp: 33877
 Ion Ratio Lower Upper
 96 100
 61 131.2 89.5 166.1
 68 0.0 0.0 0.0



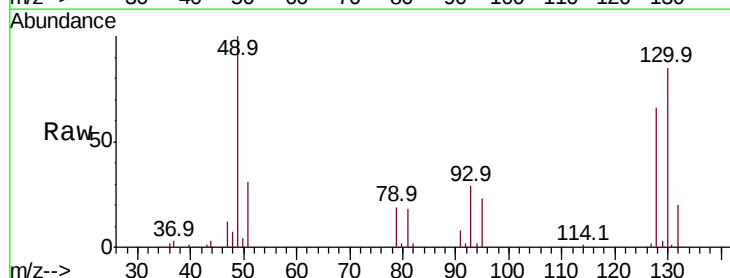
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



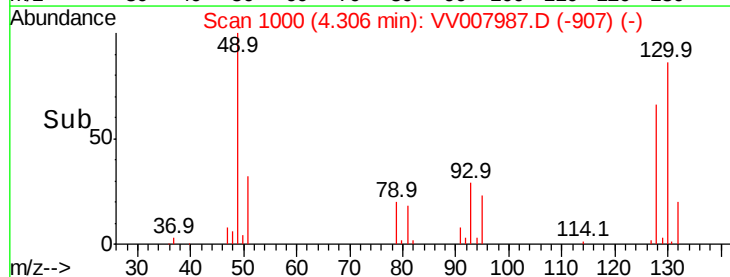
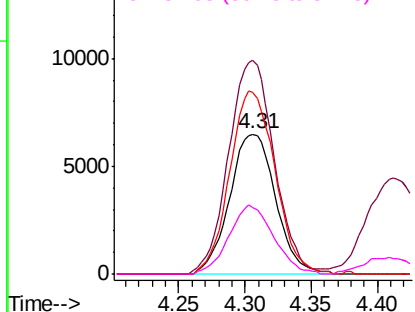
#23

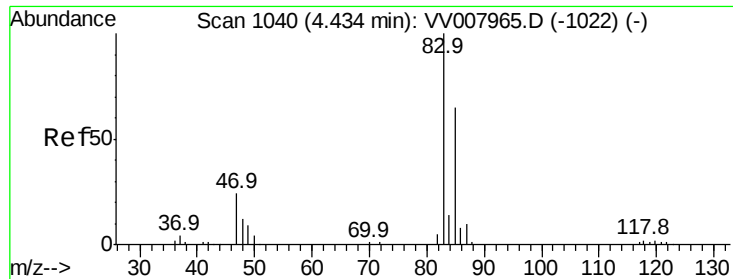
Bromochloromethane
 Concen: 5.129 ug/L
 RT: 4.31 min Scan# 1000
 Delta R.T. 0.00 min
 Lab File: VV007987.D
 Acq: 29 Sep 2018 06:51

Tgt Ion: 128 Resp: 15599
 Ion Ratio Lower Upper
 128 100
 49 152.4 112.8 209.4
 130 129.9 92.3 171.5
 51 47.9 38.4 57.6



Abundance Ion 127.90 (127.60 to 128.60): V
 Ion 49.10 (48.80 to 49.80): VV0
 Ion 129.95 (129.65 to 130.65): V
 Ion 51.05 (50.75 to 51.75): VV0

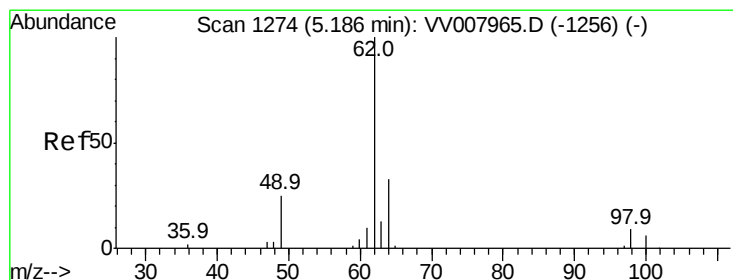
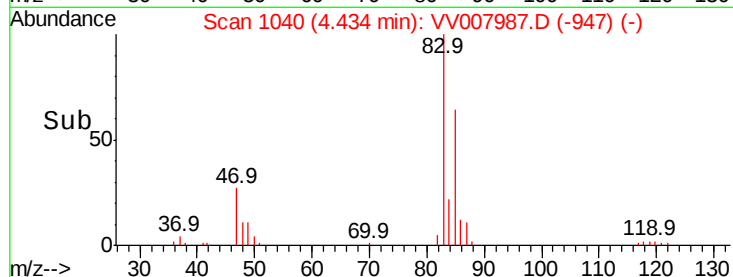
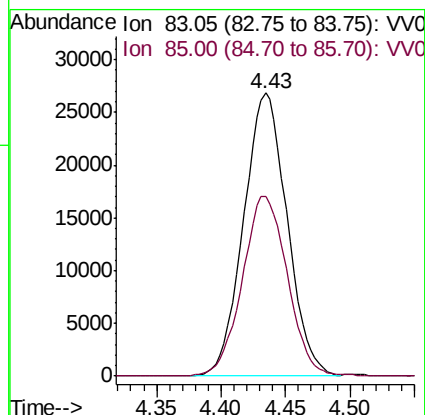
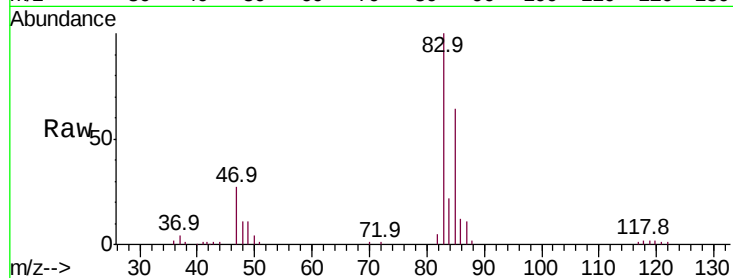




#25
Chloroform
Concen: 4.951 ug/L
RT: 4.43 min Scan# 1040
Delta R.T. 0.00 min
Lab File: VV007987.D
Acq: 29 Sep 2018 06:51

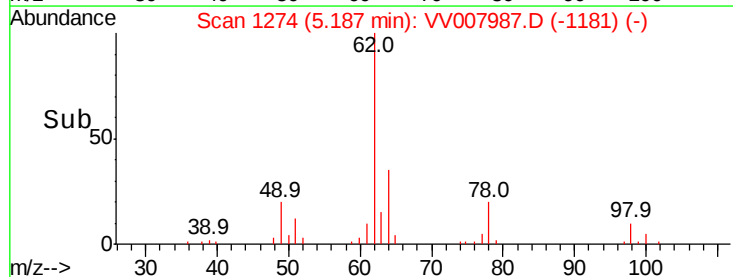
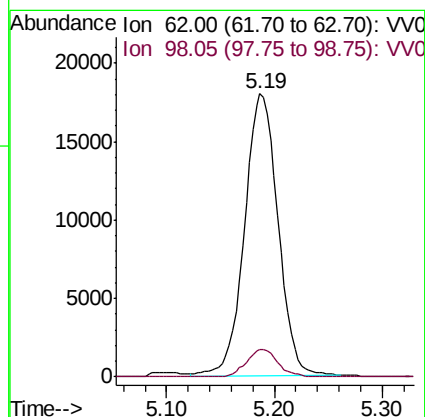
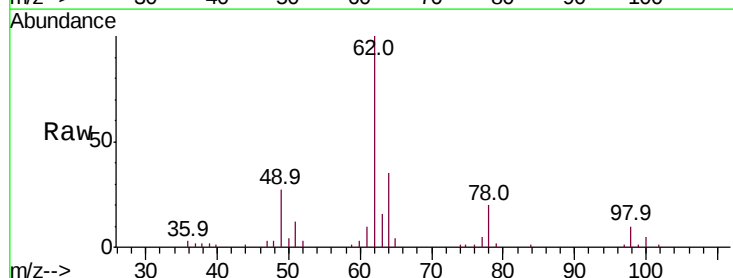
Instrument :
MSVOA_V
ClientSampleId :
VSTD00562

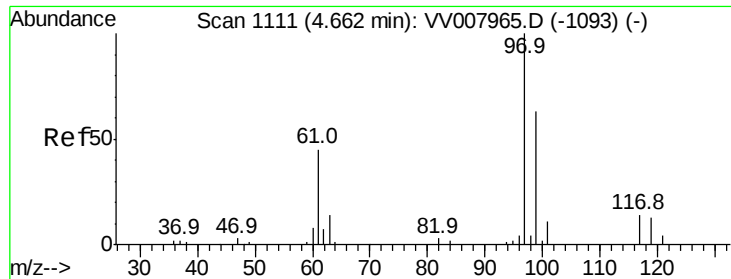
Tot Ion: 83 Resp: 63100
Ion Ratio Lower Upper
83 100
85 63.5 44.8 83.2



#27
1,2-Dichloroethane
Concen: 4.726 ug/L
RT: 5.19 min Scan# 1274
Delta R.T. 0.00 min
Lab File: VV007987.D
Acq: 29 Sep 2018 06:51

Tgt Ion: 62 Resp: 38761
Ion Ratio Lower Upper
62 100
98 9.6 6.6 10.0

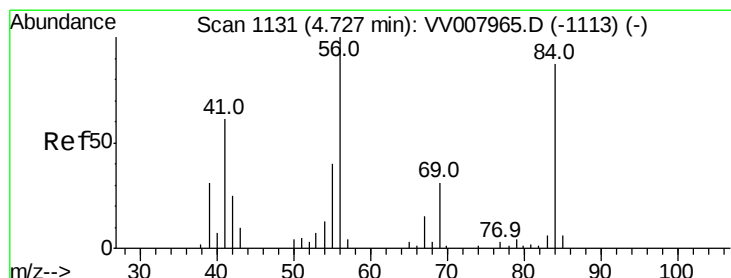
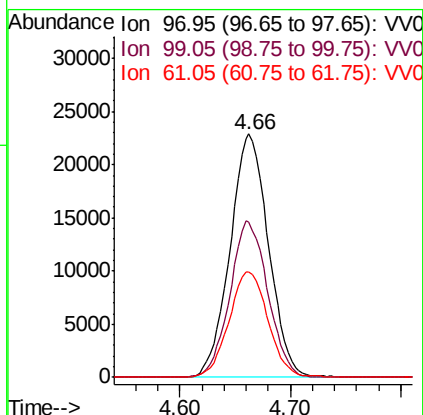
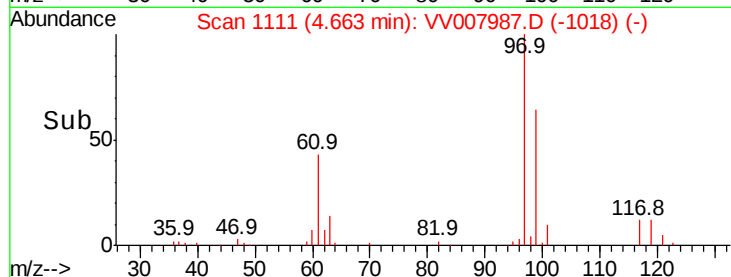
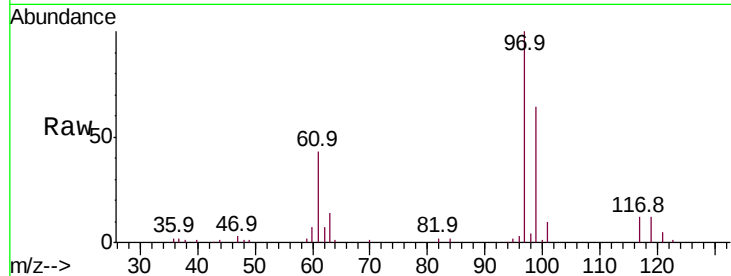




#29
 1,1,1-Trichloroethane
 Concen: 4.973 ug/L
 RT: 4.66 min Scan# 1111
 Delta R.T. 0.00 min
 Lab File: VV007987.D
 Acq: 29 Sep 2018 06:51

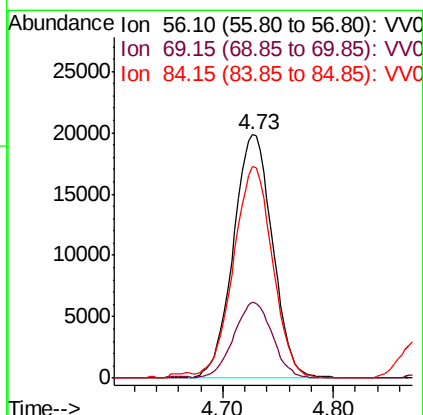
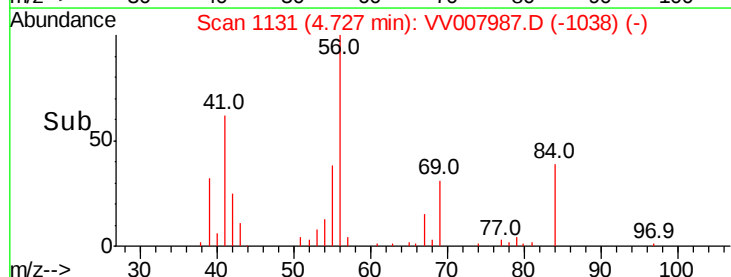
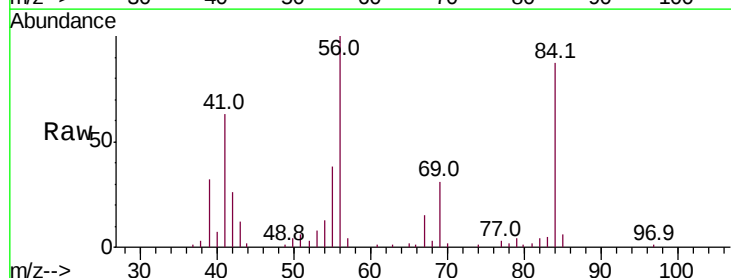
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

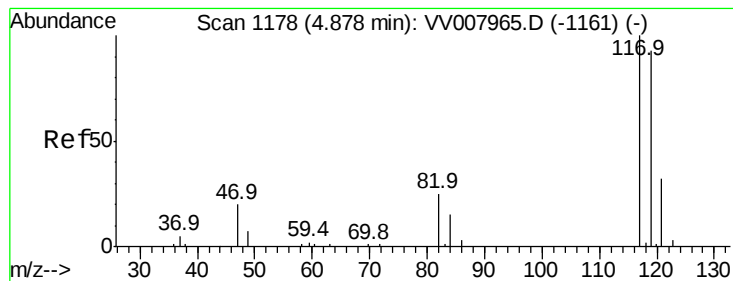
Tot Ion: 97 Resp: 55184
 Ion Ratio Lower Upper
 97 100
 99 63.3 51.2 76.8
 61 44.1 34.6 52.0



#30
 Cyclohexane
 Concen: 4.676 ug/L
 RT: 4.73 min Scan# 1131
 Delta R.T. 0.00 min
 Lab File: VV007987.D
 Acq: 29 Sep 2018 06:51

Tgt Ion: 56 Resp: 48779
 Ion Ratio Lower Upper
 56 100
 69 30.7 24.2 36.4
 84 87.1 69.8 104.8





#31

Carbon tetrachloride

Concen: 5.044 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VV007987.D

Acq: 29 Sep 2018 06:51

Instrument :

MSVOA_V

ClientSampleId :

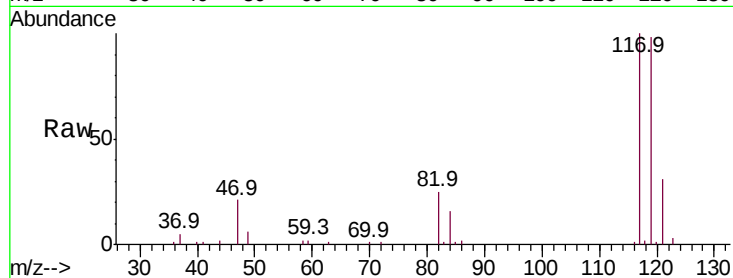
VSTD00562

Tot Ion:117 Resp: 49346

Ion Ratio Lower Upper

117 100

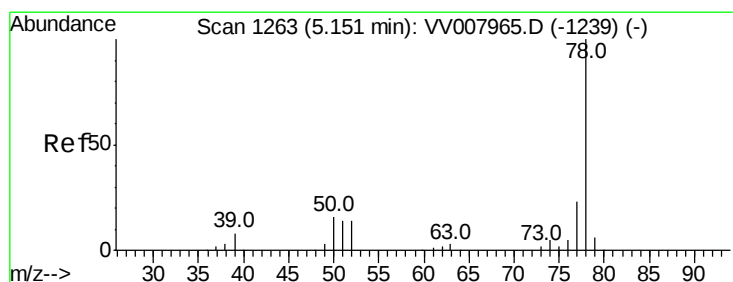
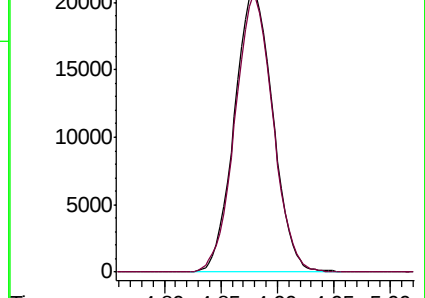
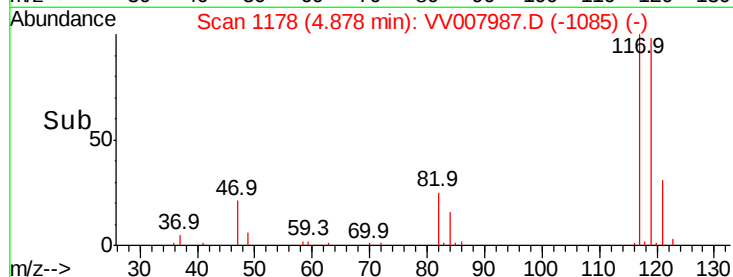
119 96.9 77.8 116.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

4.88



#33

Benzene

Concen: 5.020 ug/L

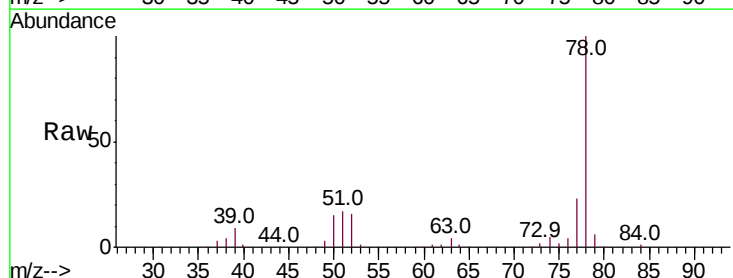
RT: 5.15 min Scan# 1263

Delta R.T. 0.00 min

Lab File: VV007987.D

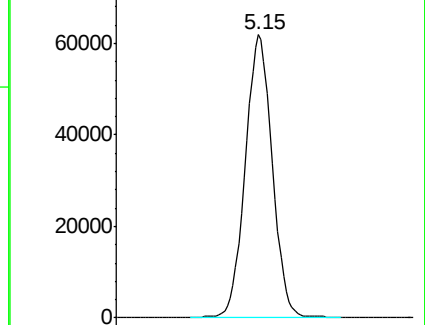
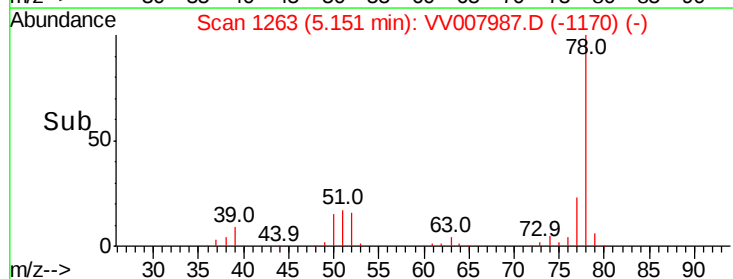
Acq: 29 Sep 2018 06:51

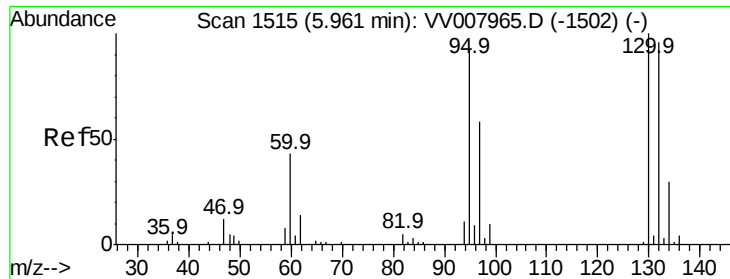
Tgt Ion: 78 Resp: 132652



Abundance Ion 78.10 (77.80 to 78.80): VV0

5.15





#34

Trichloroethene

Concen: 4.689 ug/L

RT: 5.96 min Scan# 1516

Delta R.T. 0.00 min

Lab File: VV007987.D

Acq: 29 Sep 2018 06:51

Instrument :

MSVOA_V

ClientSampleId :

VSTD00562

Tot Ion: 95 Resp: 35484

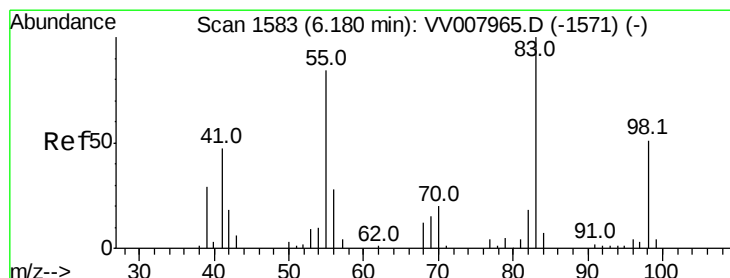
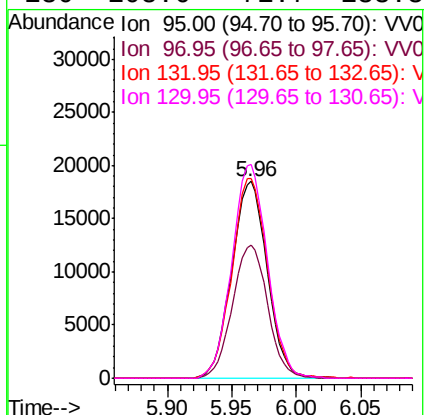
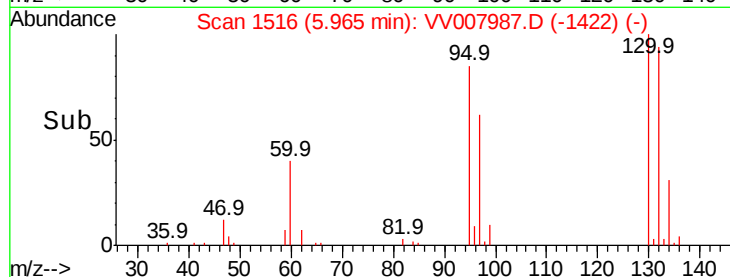
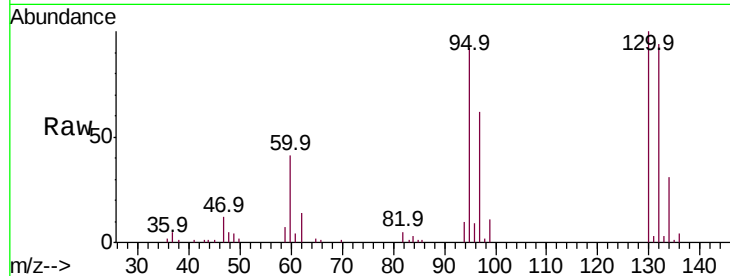
Ion Ratio Lower Upper

95 100

97 67.6 43.6 81.0

132 101.8 69.9 129.9

130 108.6 71.7 133.3



#35

Methylcyclohexane

Concen: 4.573 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VV007987.D

Acq: 29 Sep 2018 06:51

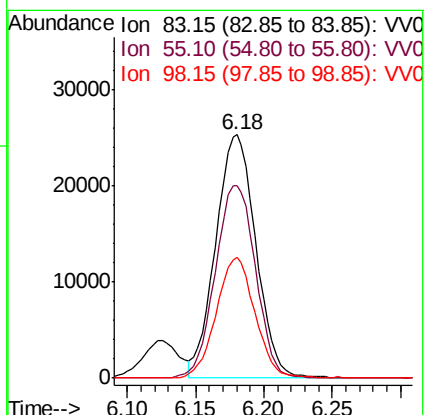
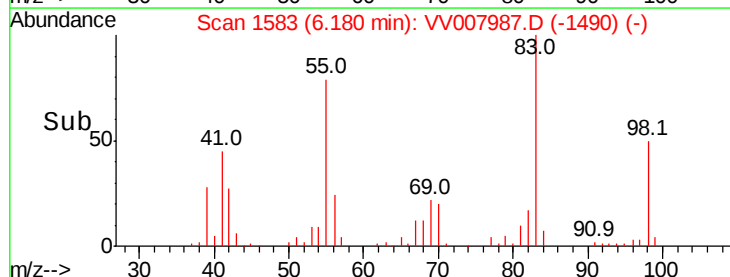
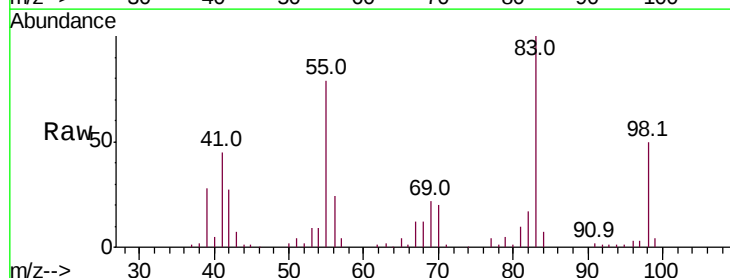
Tgt Ion: 83 Resp: 51889

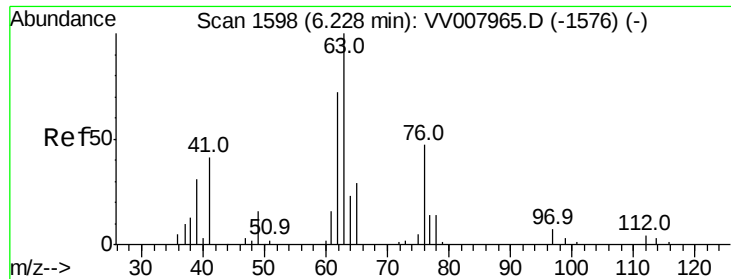
Ion Ratio Lower Upper

83 100

55 79.2 62.2 93.2

98 47.6 38.0 57.0





#37

1,2-Dichloropropane

Concen: 5.012 ug/L

RT: 6.23 min Scan# 1597

Delta R.T. -0.00 min

Lab File: VV007987.D

Acq: 29 Sep 2018 06:51

Instrument :

MSVOA_V

ClientSampleId :

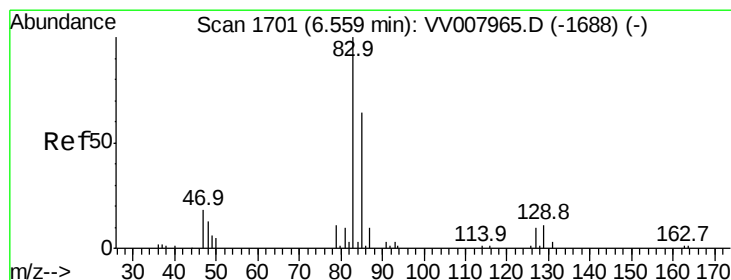
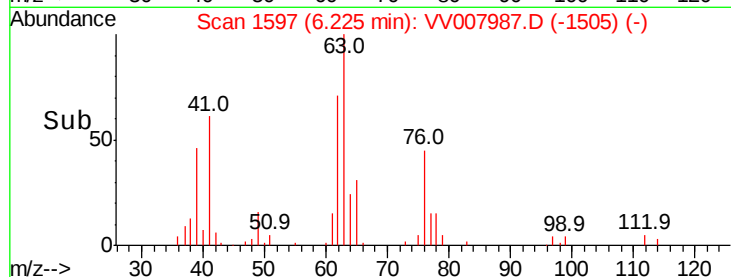
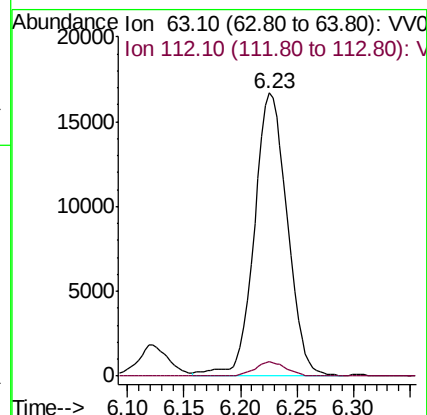
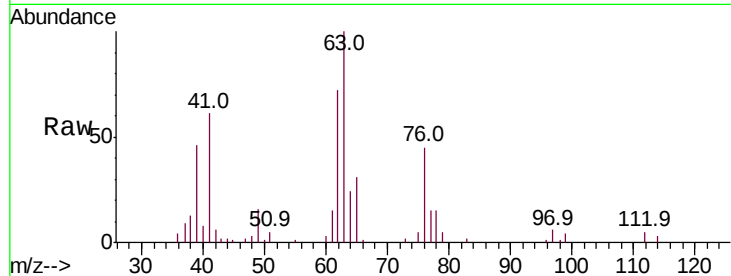
VSTD00562

Tot Ion: 63 Resp: 33835

Ion Ratio Lower Upper

63 100

112 4.7 3.4 5.0



#38

Bromodichloromethane

Concen: 5.060 ug/L

RT: 6.56 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VV007987.D

Acq: 29 Sep 2018 06:51

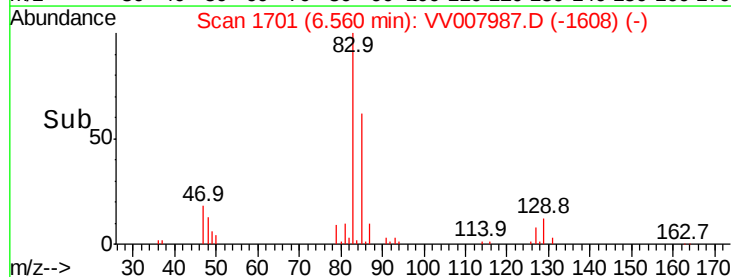
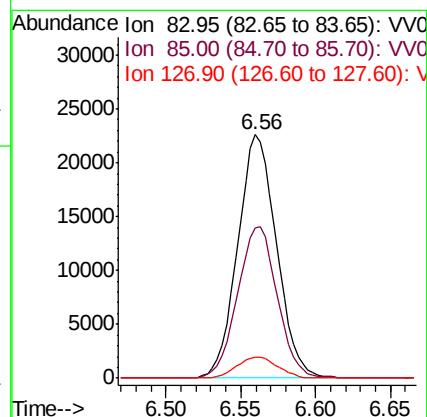
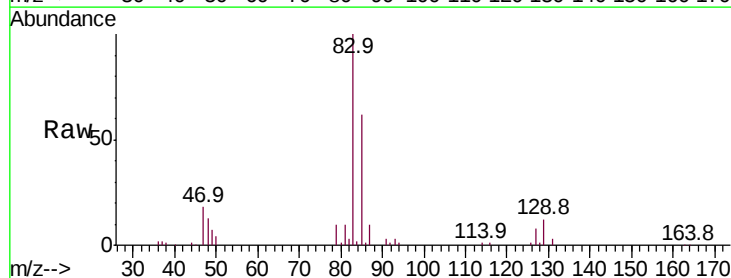
Tgt Ion: 83 Resp: 40844

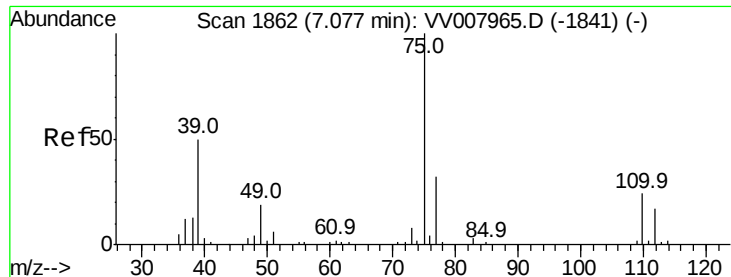
Ion Ratio Lower Upper

83 100

85 61.6 44.7 82.9

127 8.5 7.8 11.6

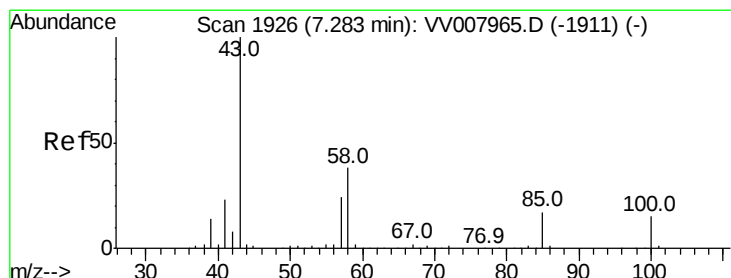
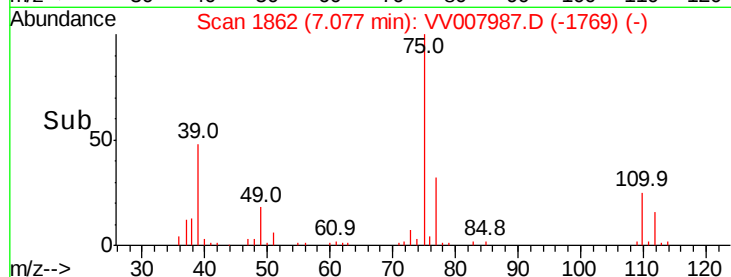
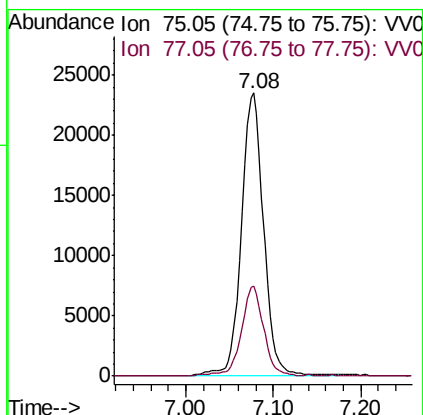
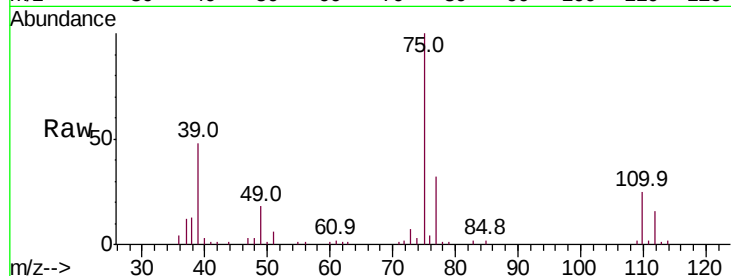




#39
 cis-1,3-Dichloropropene
 Concen: 4.631 ug/L
 RT: 7.08 min Scan# 1862
 Delta R.T. 0.00 min
 Lab File: VV007987.D
 Acq: 29 Sep 2018 06:51

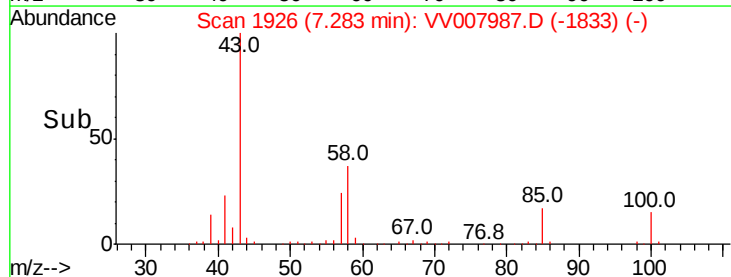
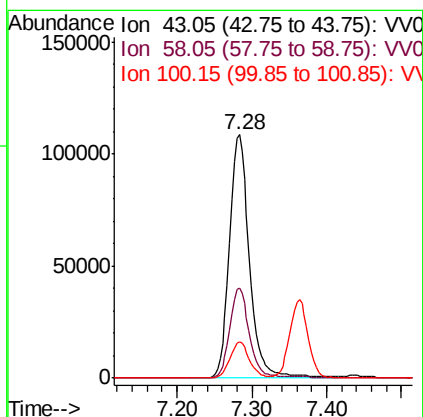
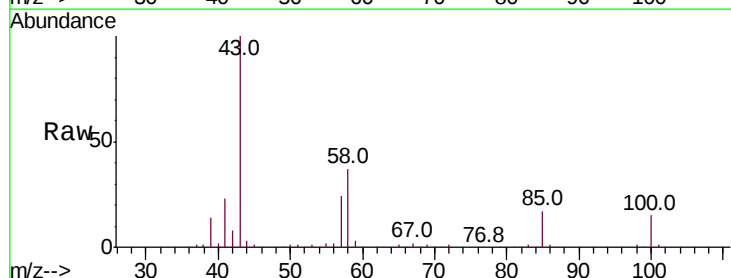
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

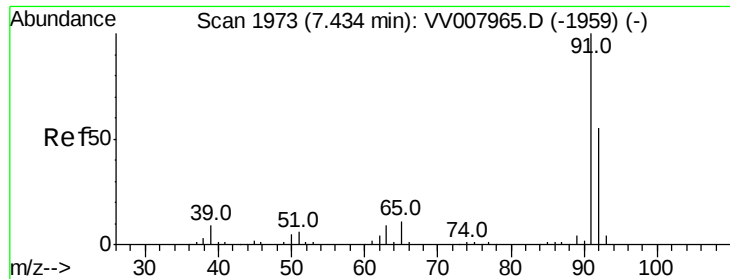
Tot Ion: 75 Resp: 41824
 Ion Ratio Lower Upper
 75 100
 77 31.8 22.9 42.5



#40
 4-Methyl-2-pentanone
 Concen: 47.480 ug/L
 RT: 7.28 min Scan# 1926
 Delta R.T. 0.00 min
 Lab File: VV007987.D
 Acq: 29 Sep 2018 06:51

Tgt Ion: 43 Resp: 201187
 Ion Ratio Lower Upper
 43 100
 58 36.0 29.4 44.0
 100 14.3 11.5 17.3





#42

Toluene

Concen: 5.113 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VV007987.D

Acq: 29 Sep 2018 06:51

Instrument :

MSVOA_V

ClientSampleId :

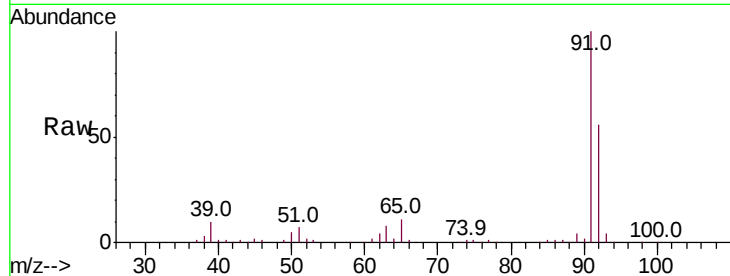
VSTD00562

Tot Ion: 91 Resp: 147146

Ion Ratio Lower Upper

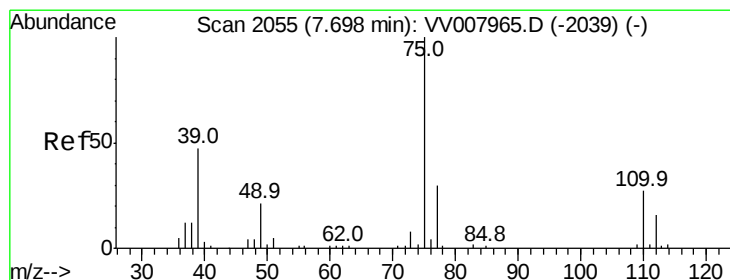
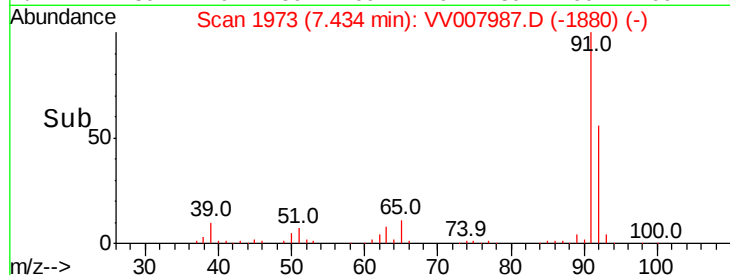
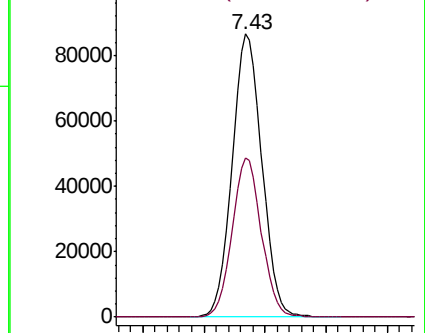
91 100

92 56.4 40.8 75.8



Abundance Ion 91.15 (90.85 to 91.85): VV007965.D (-1959) (-)

Ion 92.15 (91.85 to 92.85): VV007987.D (-1880) (-)



#44

trans-1,3-Dichloropropene

Concen: 4.553 ug/L

RT: 7.70 min Scan# 2055

Delta R.T. 0.00 min

Lab File: VV007987.D

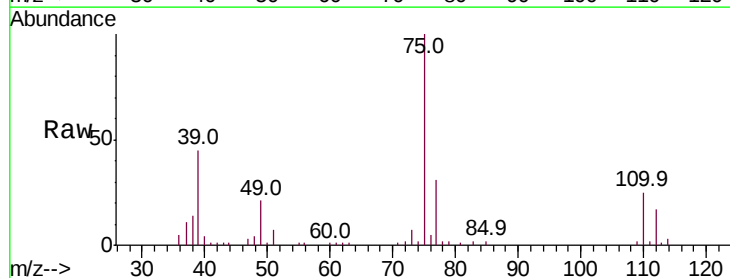
Acq: 29 Sep 2018 06:51

Tgt Ion: 75 Resp: 34180

Ion Ratio Lower Upper

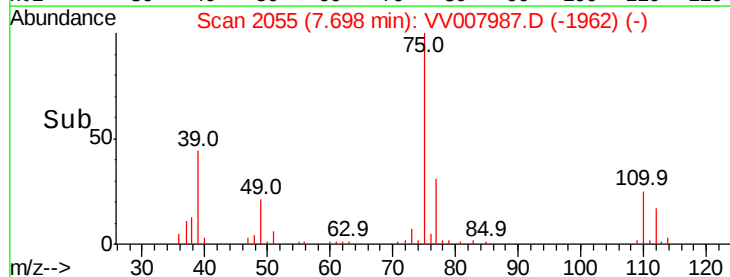
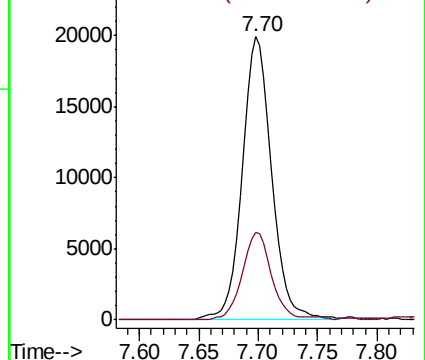
75 100

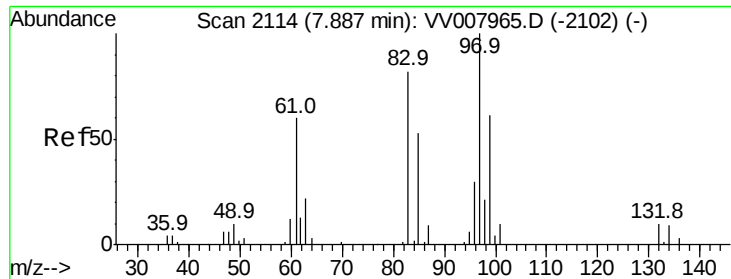
77 30.8 22.3 41.5



Abundance Ion 75.05 (74.75 to 75.75): VV007965.D (-2039) (-)

Ion 77.05 (76.75 to 77.75): VV007987.D (-1962) (-)





#45

1,1,2-Trichloroethane

Concen: 4.783 ug/L

RT: 7.89 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VV007987.D

Acq: 29 Sep 2018 06:51

Instrument :

MSVOA_V

ClientSampleId :

VSTD00562

Tot Ion: 97 Resp: 23305

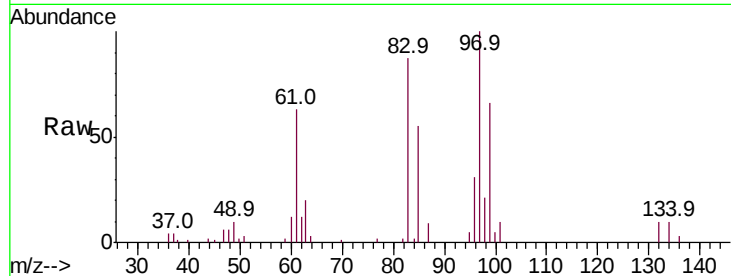
Ion Ratio Lower Upper

97 100

99 66.0 43.5 80.9

83 86.7 59.7 110.9

85 55.0 39.5 73.3



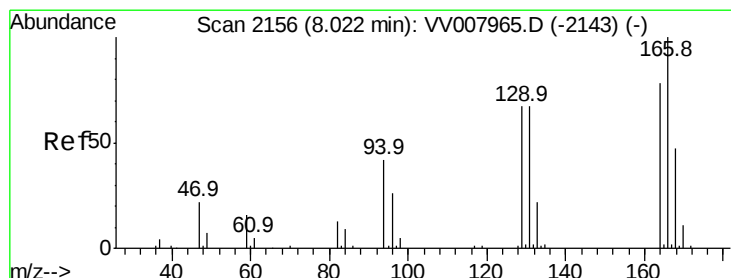
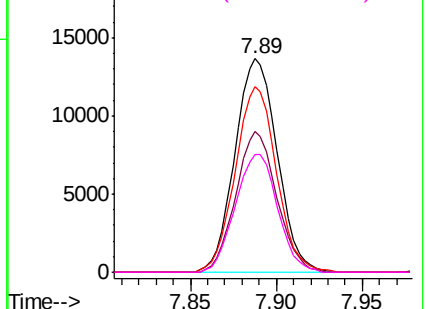
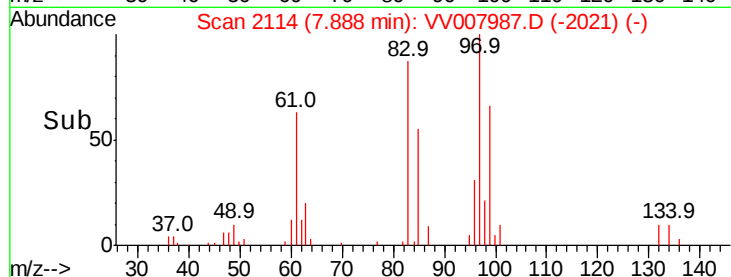
Abundance

Ion 96.95 (96.65 to 97.65): VV007987.D (-2021) (-)

Ion 99.05 (98.75 to 99.75): VV007987.D (-2021) (-)

Ion 82.95 (82.65 to 83.65): VV007987.D (-2021) (-)

Ion 85.00 (84.70 to 85.70): VV007987.D (-2021) (-)



#47

Tetrachloroethene

Concen: 4.718 ug/L

RT: 8.02 min Scan# 2156

Delta R.T. 0.00 min

Lab File: VV007987.D

Acq: 29 Sep 2018 06:51

Tgt Ion: 164 Resp: 33078

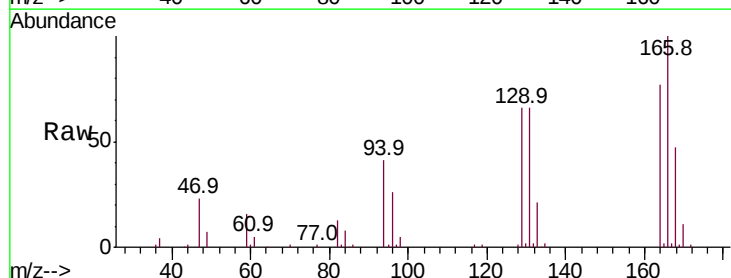
Ion Ratio Lower Upper

164 100

129 85.5 59.2 110.0

131 85.3 57.1 106.1

166 129.6 88.6 164.6



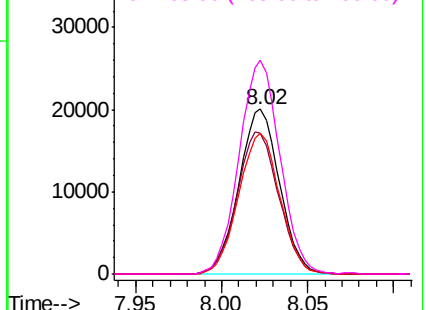
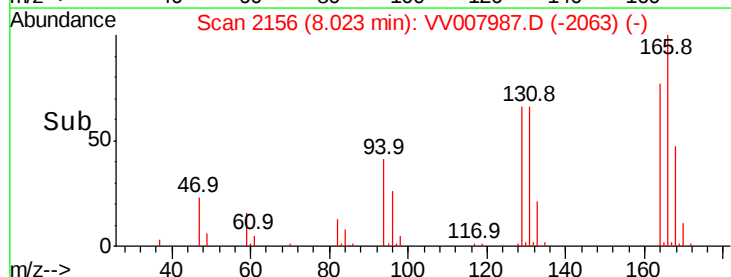
Abundance

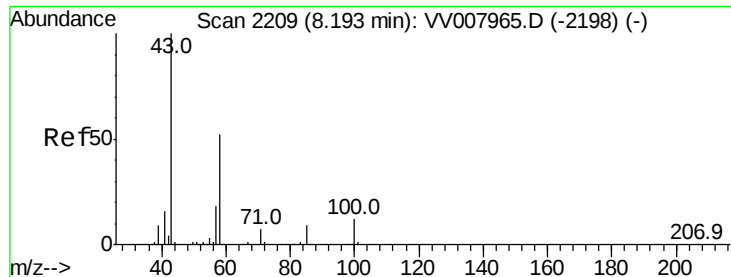
Ion 163.90 (163.60 to 164.60): VV007987.D (-2063) (-)

Ion 128.95 (128.65 to 129.65): VV007987.D (-2063) (-)

Ion 130.95 (130.65 to 131.65): VV007987.D (-2063) (-)

Ion 165.90 (165.60 to 166.60): VV007987.D (-2063) (-)

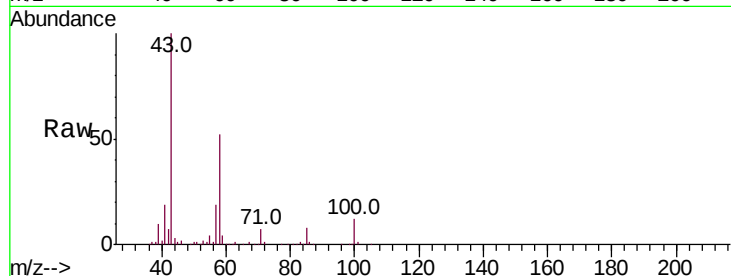




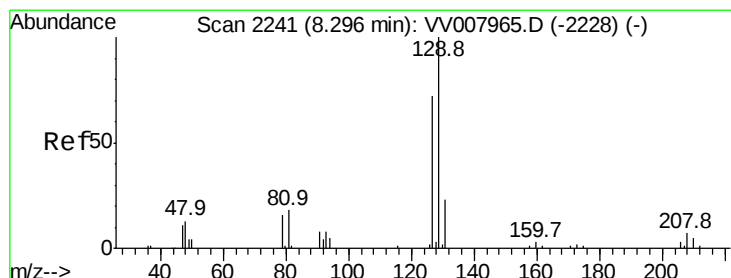
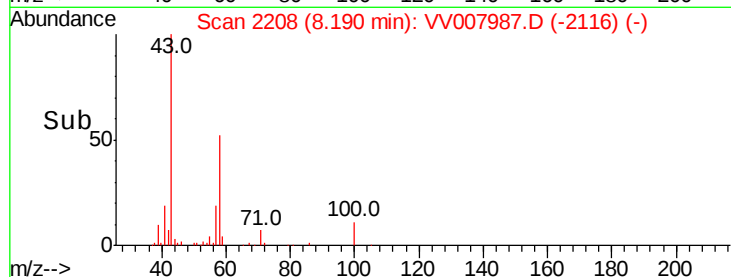
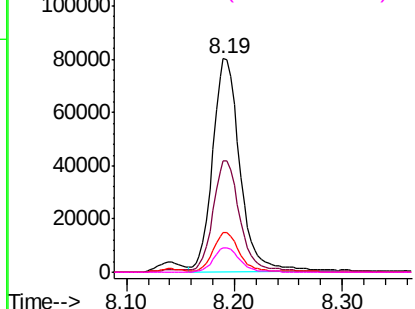
#48
2-Hexanone
Concen: 47.497 ug/L
RT: 8.19 min Scan# 2208
Delta R.T. -0.00 min
Lab File: VV007987.D
Acq: 29 Sep 2018 06:51

Instrument :
MSVOA_V
ClientSampleId :
VSTD00562

Tot Ion: 43 Resp: 139974
Ion Ratio Lower Upper
43 100
58 50.6 41.9 62.9
57 18.0 14.3 21.5
100 11.7 9.2 13.8

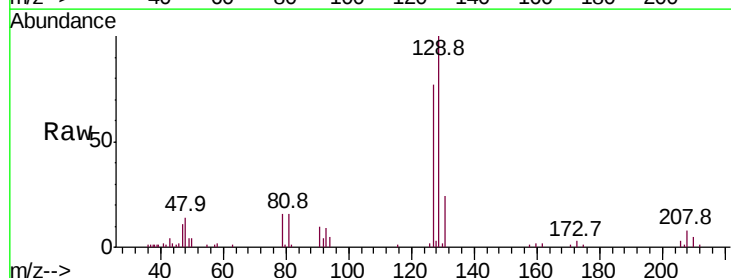


Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0

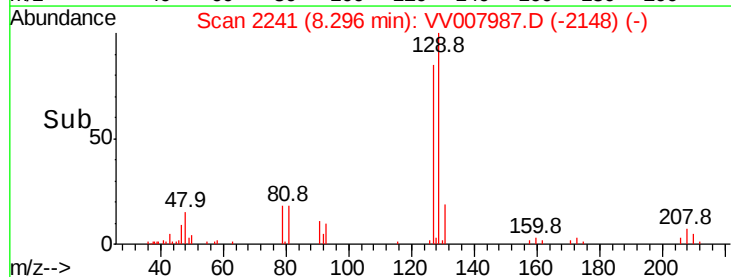
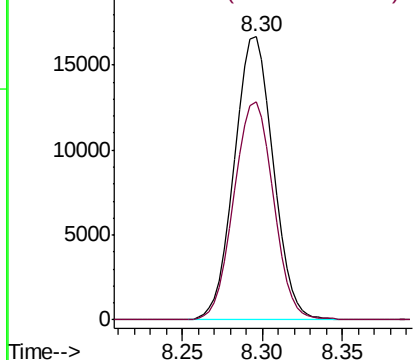


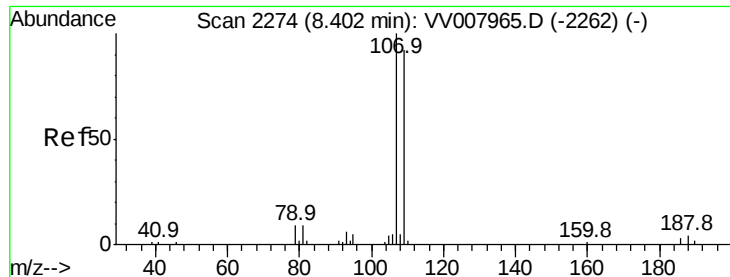
#49
Dibromochloromethane
Concen: 4.978 ug/L
RT: 8.30 min Scan# 2241
Delta R.T. 0.00 min
Lab File: VV007987.D
Acq: 29 Sep 2018 06:51

Tgt Ion: 129 Resp: 27688
Ion Ratio Lower Upper
129 100
127 77.1 53.1 98.5



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

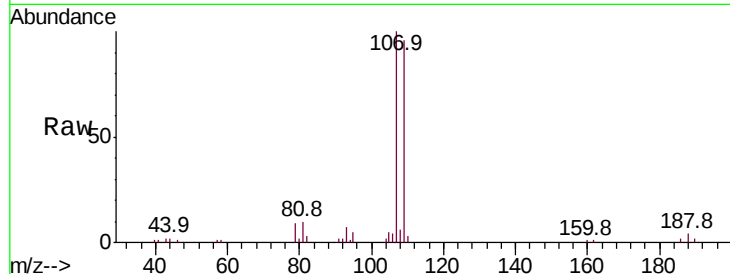




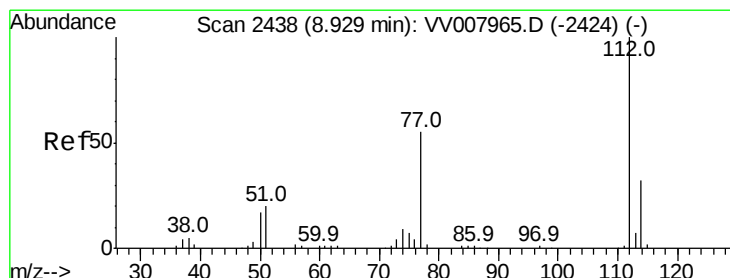
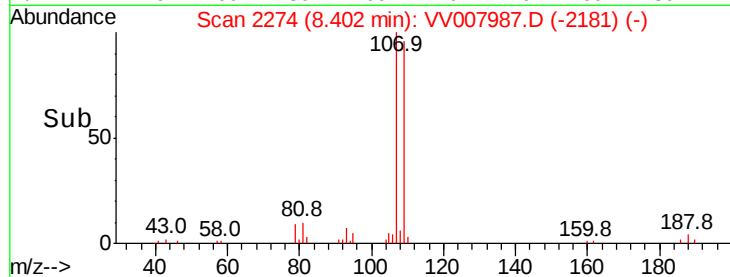
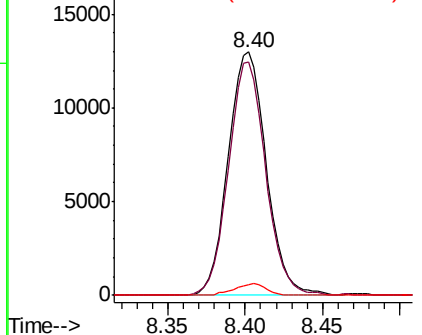
#50
 1,2-Dibromoethane
 Concen: 4.969 ug/L
 RT: 8.40 min Scan# 2274
 Delta R.T. 0.00 min
 Lab File: VV007987.D
 Acq: 29 Sep 2018 06:51

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.9	64.9	120.5
188	4.5	4.0	6.0

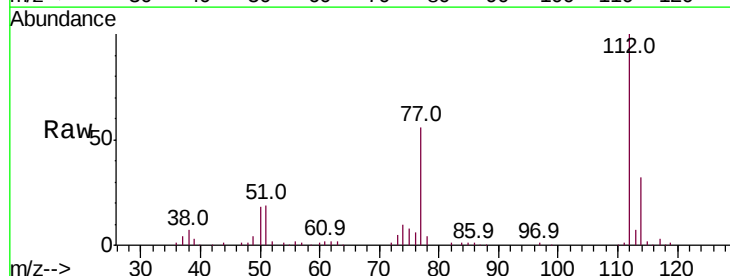


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

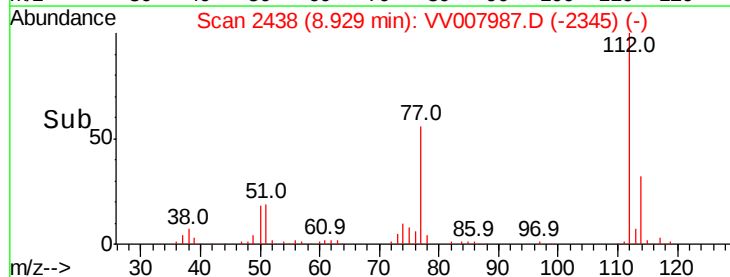
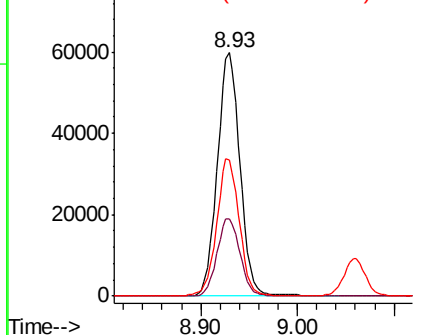


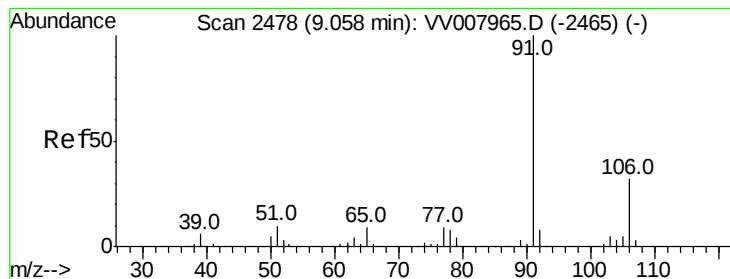
#51
 Chlorobenzene
 Concen: 4.892 ug/L
 RT: 8.93 min Scan# 2438
 Delta R.T. 0.00 min
 Lab File: VV007987.D
 Acq: 29 Sep 2018 06:51

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.4	41.6
77	55.8	45.0	67.6



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): V





#52

Ethylbenzene

Concen: 4.838 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV007987.D

Acq: 29 Sep 2018 06:51

Instrument :

MSVOA_V

ClientSampleId :

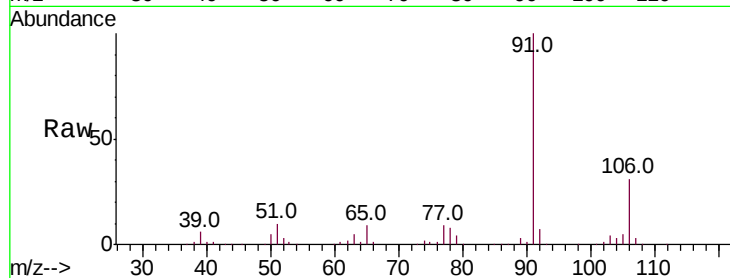
VSTD00562

Tot Ion: 91 Resp: 155335

Ion Ratio Lower Upper

91 100

106 31.2 21.7 40.3



Abundance Ion 91.15 (90.85 to 91.85): VV007987.D (-2465) (-)

Ion 106.15 (105.85 to 106.85): VV007987.D (-2465) (-)

9.06

120000

100000

80000

60000

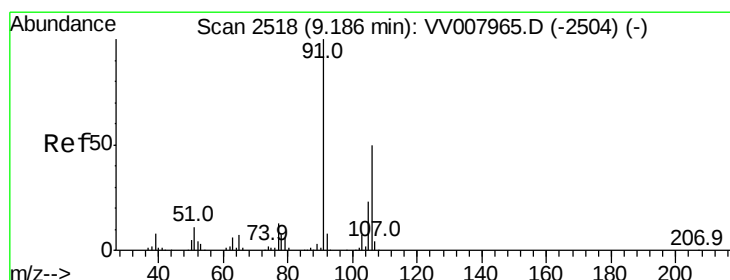
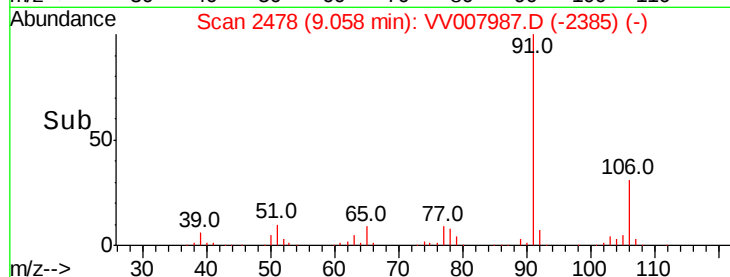
40000

20000

0

Time-->

9.00 9.05 9.10 9.15



#53

m,p-xylene

Concen: 4.915 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. -0.00 min

Lab File: VV007987.D

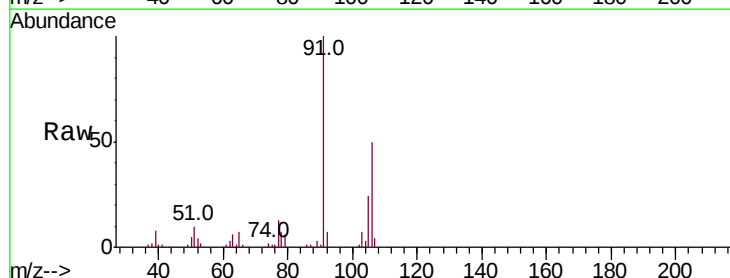
Acq: 29 Sep 2018 06:51

Tgt Ion: 106 Resp: 60087

Ion Ratio Lower Upper

106 100

91 202.0 139.4 258.8



Abundance Ion 106.15 (105.85 to 106.85): VV007987.D (-2504) (-)

Ion 91.15 (90.85 to 91.85): VV007987.D (-2504) (-)

9.18

80000

60000

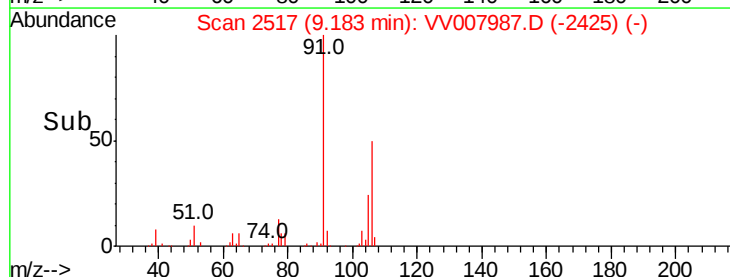
40000

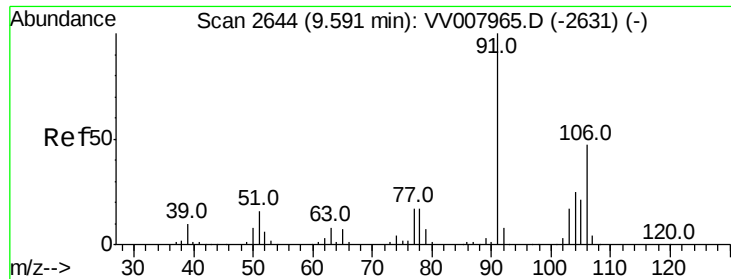
20000

0

Time-->

9.10 9.15 9.20 9.25

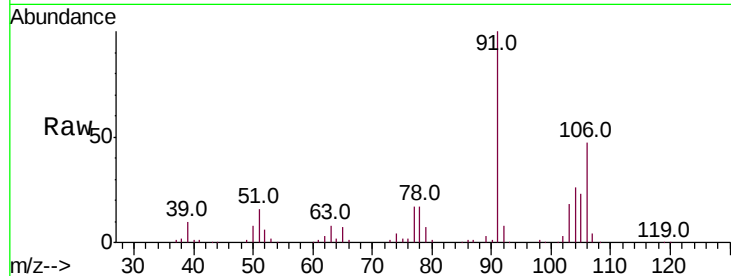




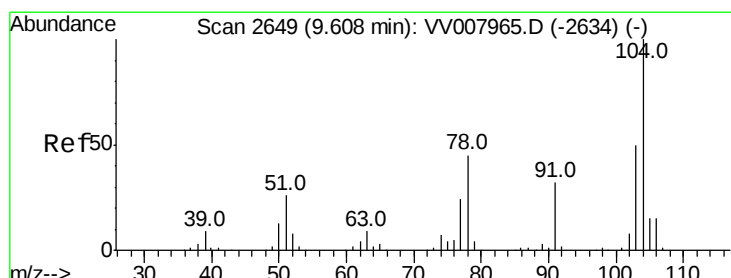
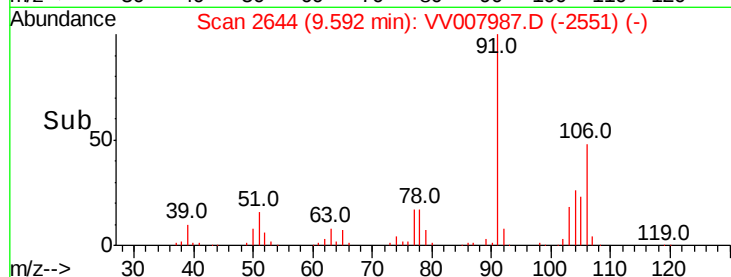
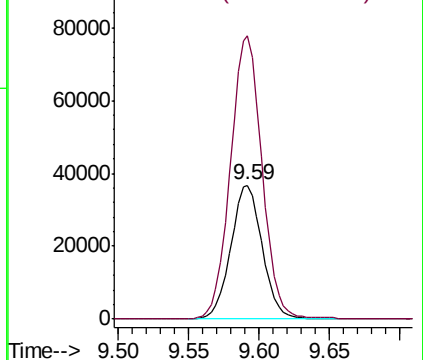
#54
o-xylene
Concen: 4.848 ug/L
RT: 9.59 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VV007987.D
Acq: 29 Sep 2018 06:51

Instrument :
MSVOA_V
ClientSampleId :
VSTD00562

Tot Ion:106 Resp: 57244
Ion Ratio Lower Upper
106 100
91 210.9 150.1 278.9

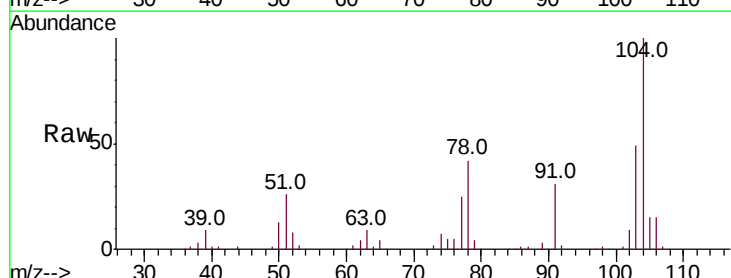


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0

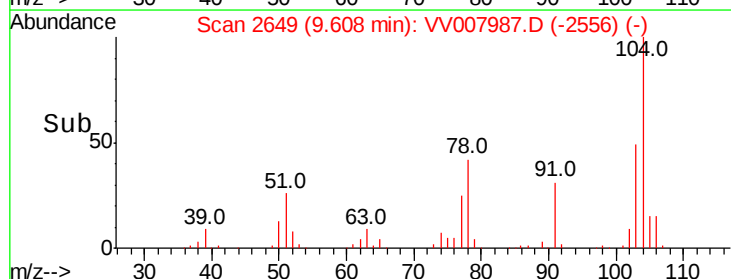
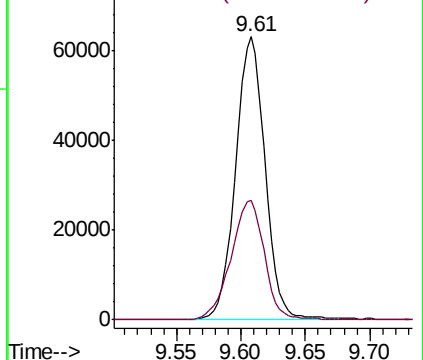


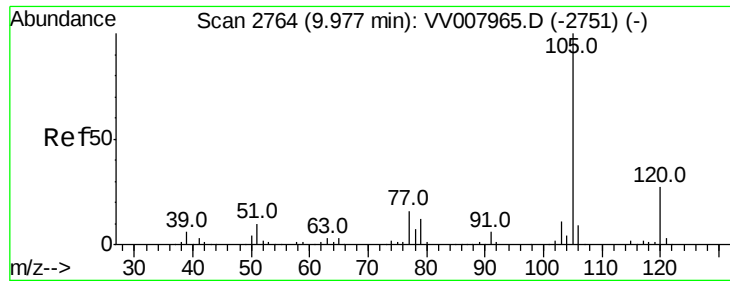
#55
Styrene
Concen: 4.990 ug/L
RT: 9.61 min Scan# 2649
Delta R.T. 0.00 min
Lab File: VV007987.D
Acq: 29 Sep 2018 06:51

Tgt Ion:104 Resp: 100631
Ion Ratio Lower Upper
104 100
78 42.1 30.4 56.4



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 4.902 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV007987.D

Acq: 29 Sep 2018 06:51

Instrument :

MSVOA_V

ClientSampleId :

VSTD00562

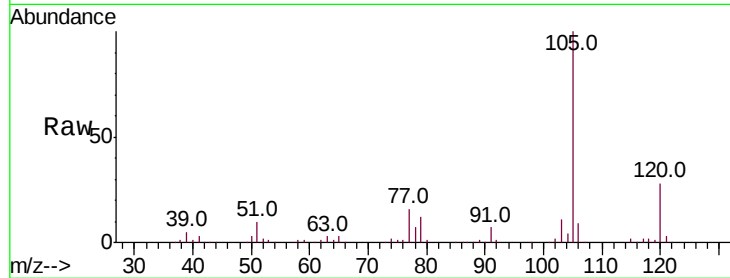
Tot Ion:105 Resp: 156758

Ion Ratio Lower Upper

105 100

120 27.5 21.4 32.0

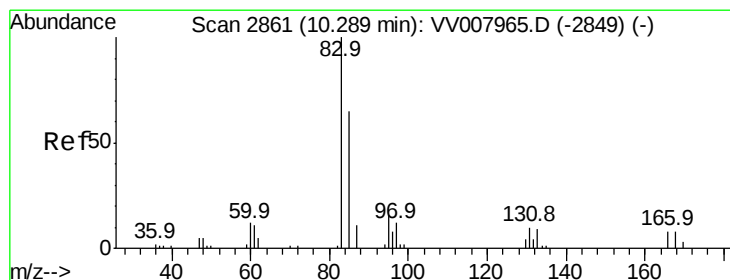
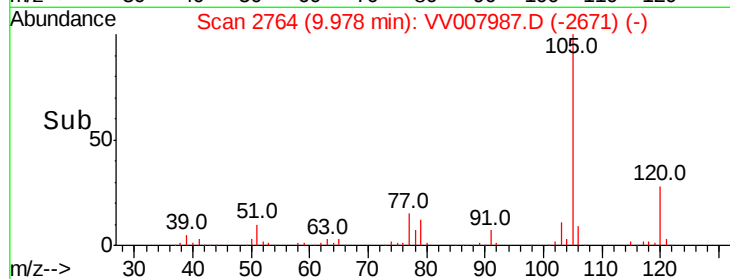
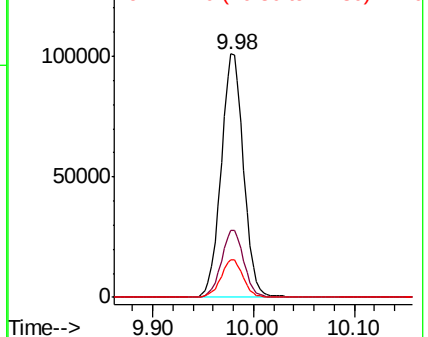
77 15.3 12.7 19.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.782 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VV007987.D

Acq: 29 Sep 2018 06:51

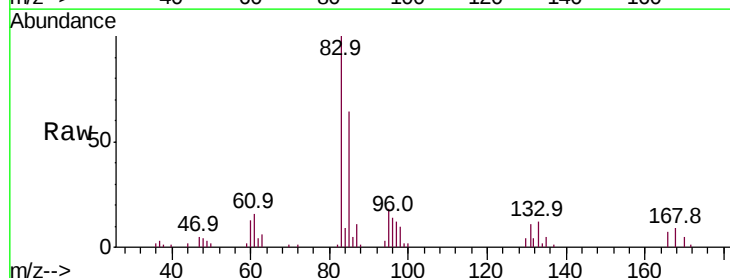
Tgt Ion: 83 Resp: 27364

Ion Ratio Lower Upper

83 100

85 64.4 43.7 81.1

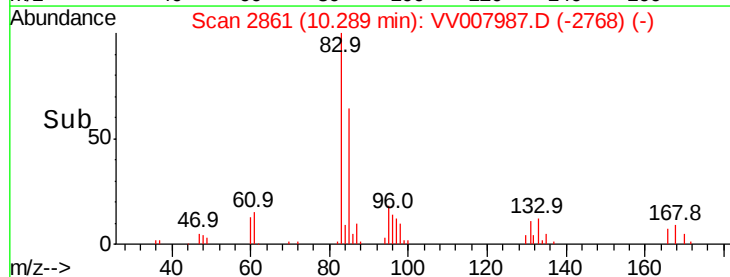
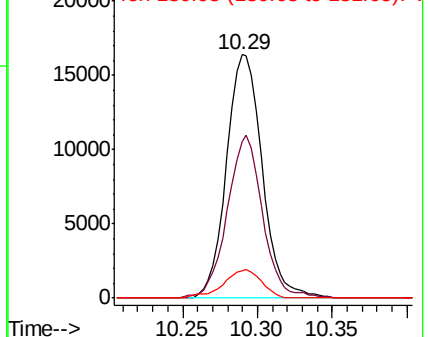
131 11.3 9.0 13.4

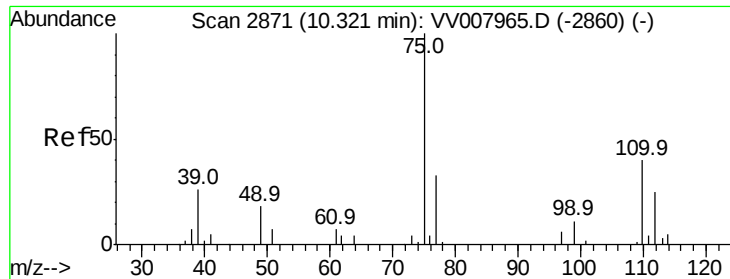


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.777 ug/L

RT: 10.32 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VV007987.D

Acq: 29 Sep 2018 06:51

Instrument :

MSVOA_V

ClientSampleId :

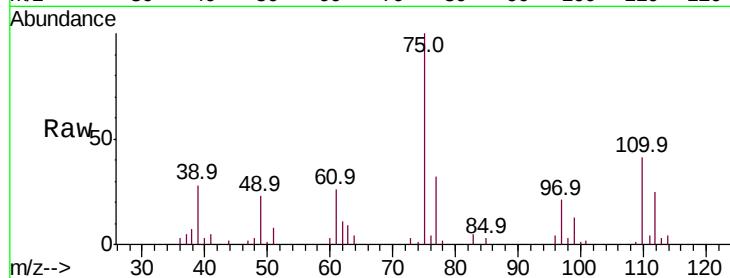
VSTD00562

Tot Ion: 75 Resp: 20065

Ion Ratio Lower Upper

75 100

77 32.2 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VV007965.D (-2860) (-)

Ion 77.00 (76.70 to 77.70): VV007965.D (-2860) (-)

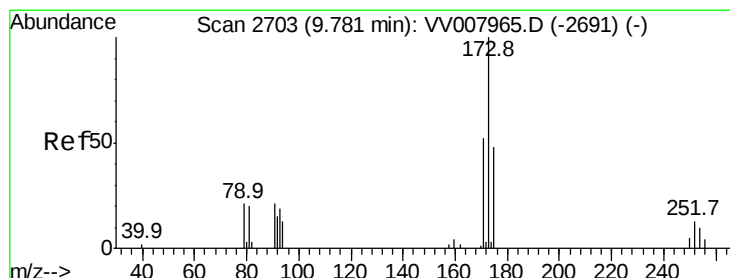
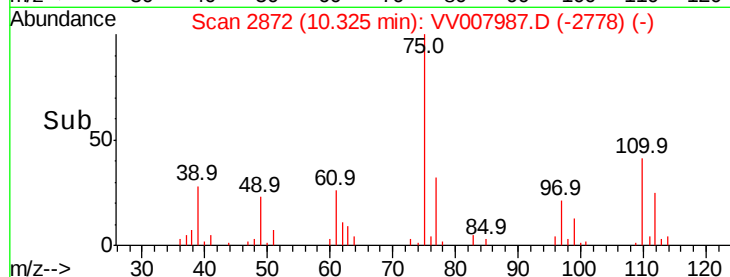
10.32

10000

5000

0

Time-->



#61

Bromoform

Concen: 5.164 ug/L

RT: 9.78 min Scan# 2703

Delta R.T. 0.00 min

Lab File: VV007987.D

Acq: 29 Sep 2018 06:51

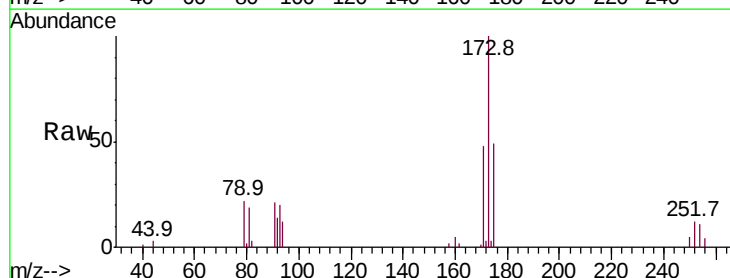
Tgt Ion:173 Resp: 15491

Ion Ratio Lower Upper

173 100

175 48.8 41.0 61.6

254 10.9 9.6 14.4



Abundance Ion 172.90 (172.60 to 173.60): VV007965.D (-2691) (-)

Ion 174.90 (174.60 to 175.60): VV007965.D (-2691) (-)

Ion 253.75 (253.45 to 254.45): VV007965.D (-2691) (-)

9.78

12000

10000

8000

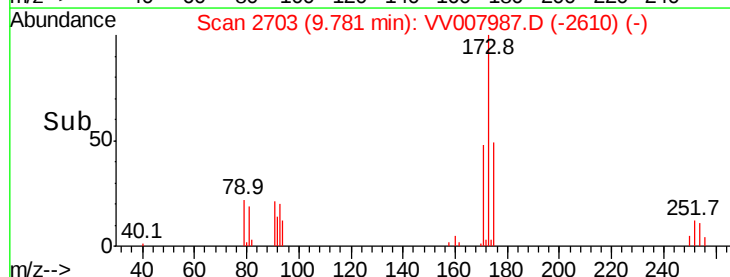
6000

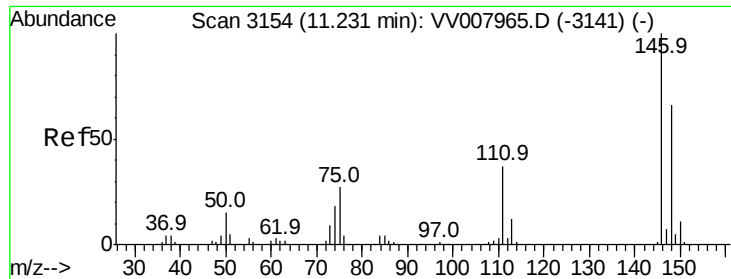
4000

2000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 4.755 ug/L

RT: 11.23 min Scan# 3154

Delta R.T. 0.00 min

Lab File: VV007987.D

Acq: 29 Sep 2018 06:51

Instrument :

MSVOA_V

ClientSampleId :

VSTD00562

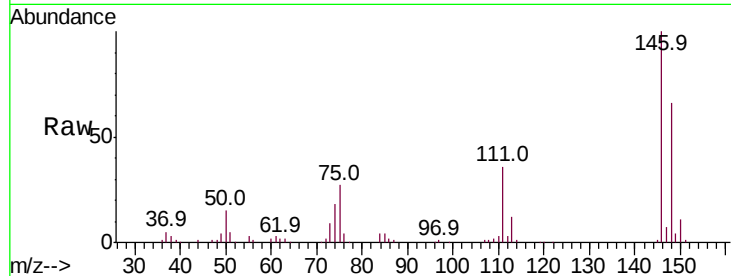
Tot Ion:146 Resp: 78417

Ion Ratio Lower Upper

146 100

111 36.0 25.8 48.0

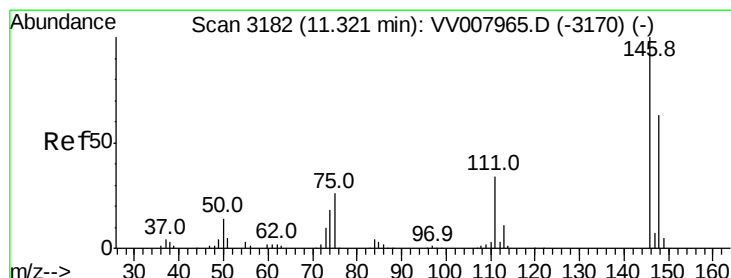
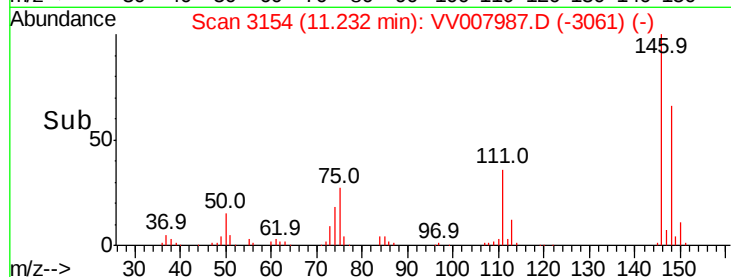
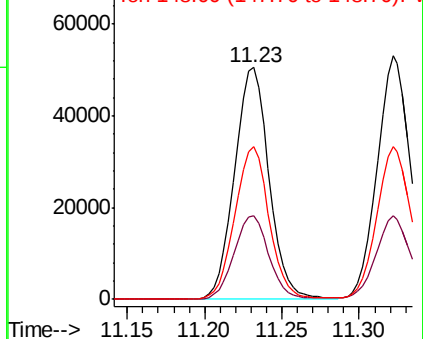
148 65.9 44.7 82.9



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



#63

1,4-Dichlorobenzene

Concen: 4.765 ug/L

RT: 11.32 min Scan# 3182

Delta R.T. 0.00 min

Lab File: VV007987.D

Acq: 29 Sep 2018 06:51

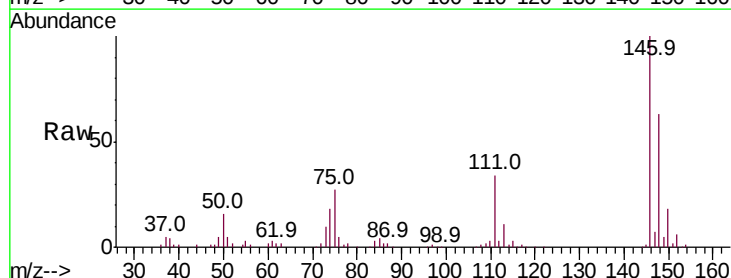
Tgt Ion:146 Resp: 81704

Ion Ratio Lower Upper

146 100

111 34.2 25.3 47.1

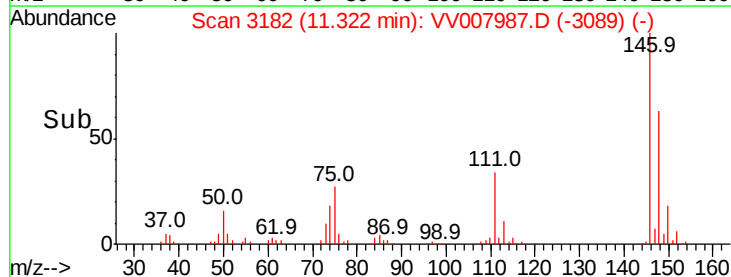
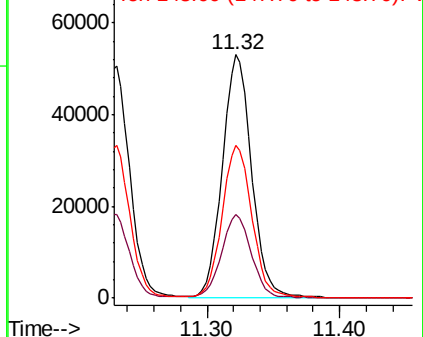
148 62.7 44.7 82.9

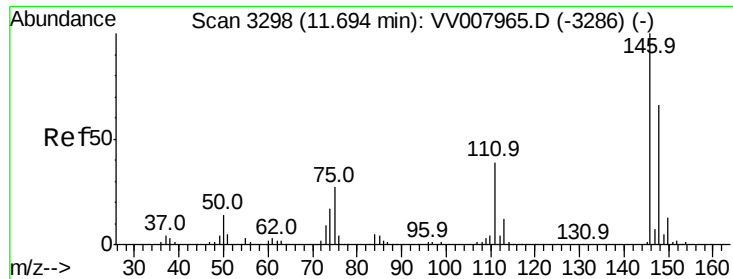


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 4.903 ug/L

RT: 11.69 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VV007987.D

Acq: 29 Sep 2018 06:51

Instrument :

MSVOA_V

ClientSampleId :

VSTD00562

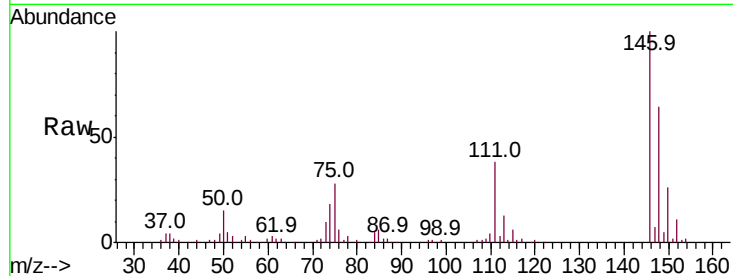
Tot Ion:146 Resp: 76217

Ion Ratio Lower Upper

146 100

111 38.0 31.2 46.8

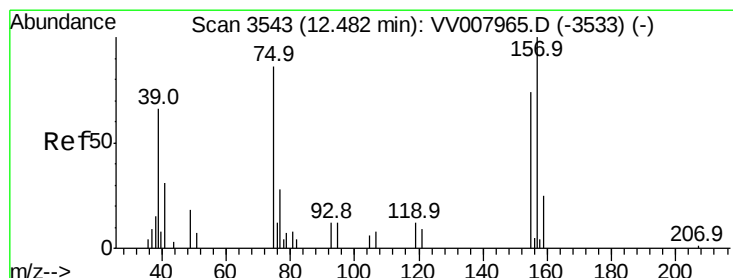
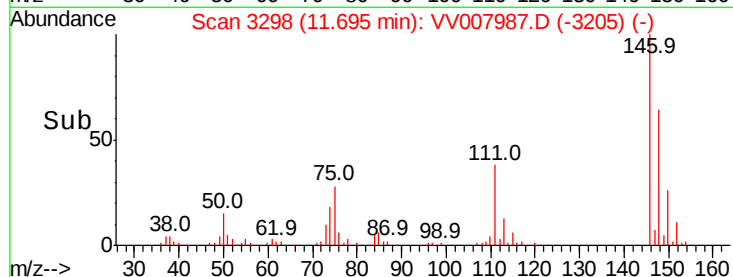
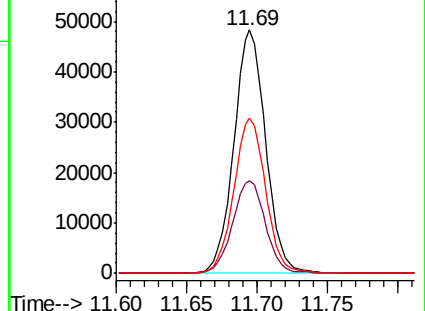
148 63.9 50.3 75.5



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



#66

1,2-Dibromo-3-chloropropane

Concen: 4.911 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. -0.00 min

Lab File: VV007987.D

Acq: 29 Sep 2018 06:51

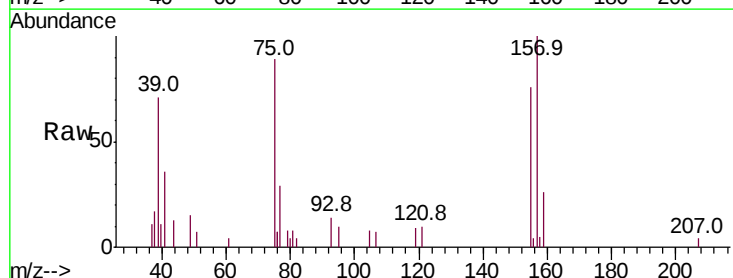
Tgt Ion: 75 Resp: 3889

Ion Ratio Lower Upper

75 100

155 85.4 83.4 125.2

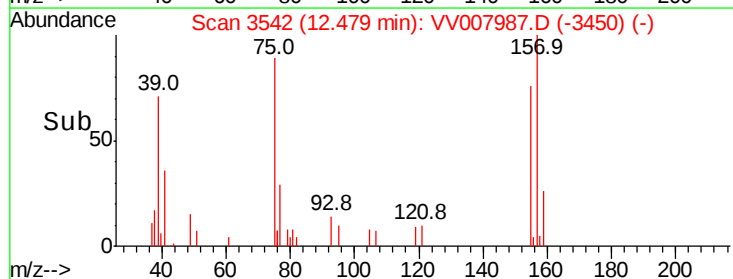
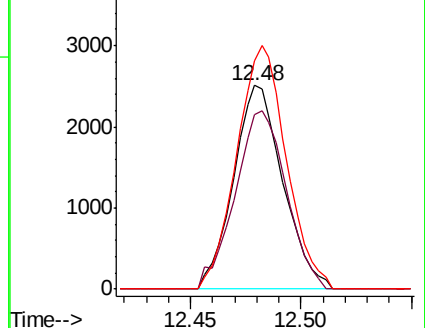
157 112.2 93.9 140.9

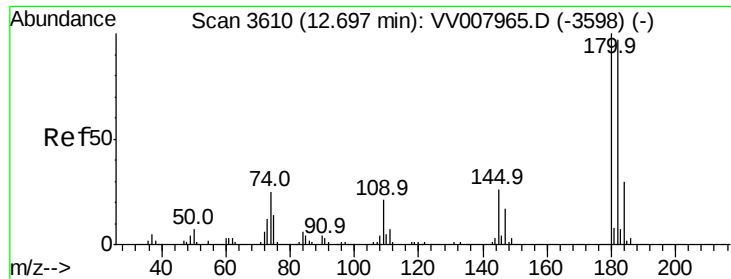


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

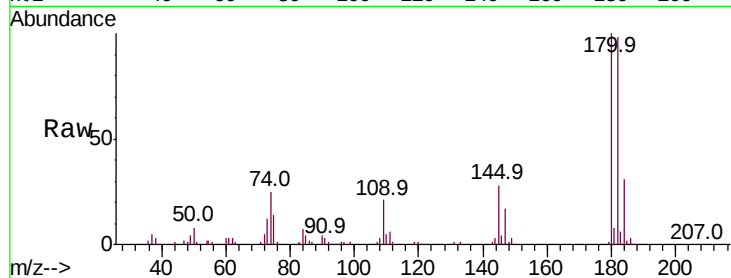




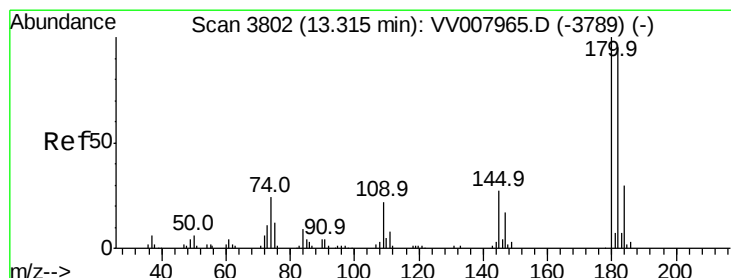
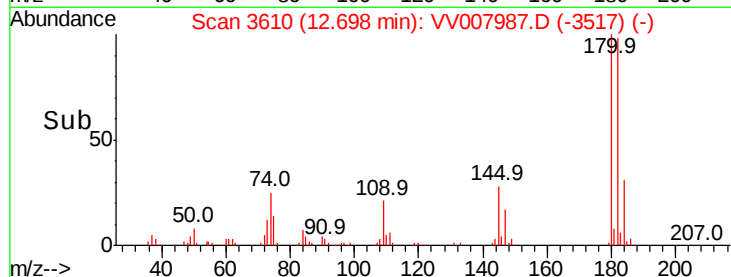
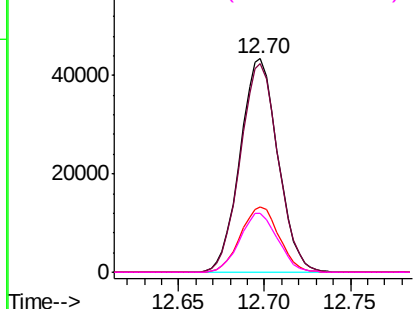
#67
 1,3,5-Trichlorobenzene
 Concen: 4.702 ug/L
 RT: 12.70 min Scan# 3610
 Delta R.T. 0.00 min
 Lab File: VV007987.D
 Acq: 29 Sep 2018 06:51

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

Tot Ion:180	Resp:	66387
Ion Ratio	Lower	Upper
180 100		
182 97.6	76.2	114.4
184 31.0	24.5	36.7
145 27.6	22.2	33.4

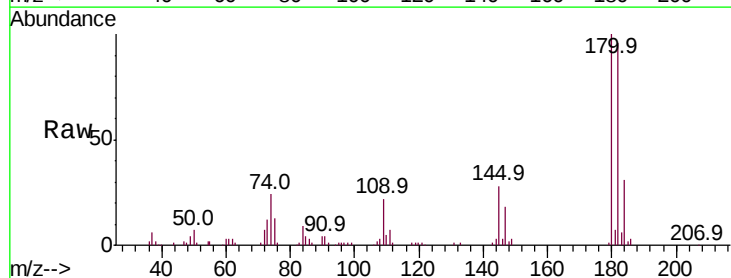


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

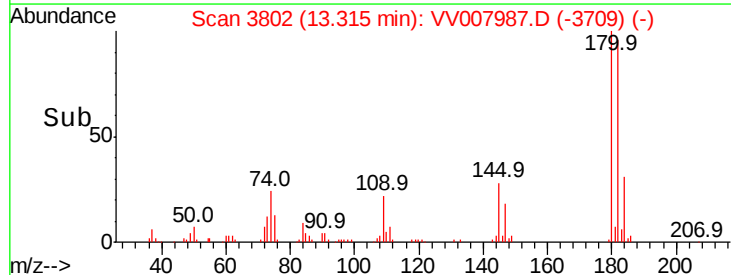
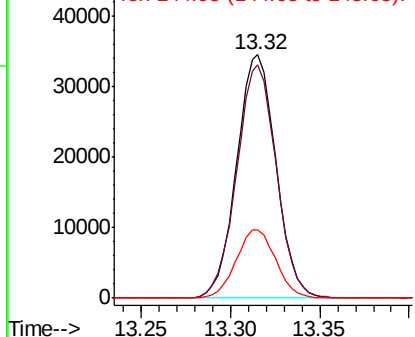


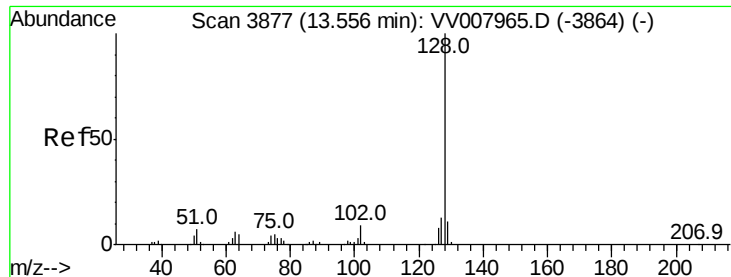
#68
 1,2,4-trichlorobenzene
 Concen: 4.415 ug/L
 RT: 13.32 min Scan# 3802
 Delta R.T. 0.00 min
 Lab File: VV007987.D
 Acq: 29 Sep 2018 06:51

Tgt	Ion:180	Resp:	52696
Ion	Ratio	Lower	Upper
180	100		
182	96.4	77.4	116.2
145	28.3	22.6	33.8



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.211 ug/L

RT: 13.56 min Scan# 3877

Delta R.T. 0.00 min

Lab File: VV007987.D

Acq: 29 Sep 2018 06:51

Instrument :

MSVOA_V

ClientSampleId :

VSTD00562

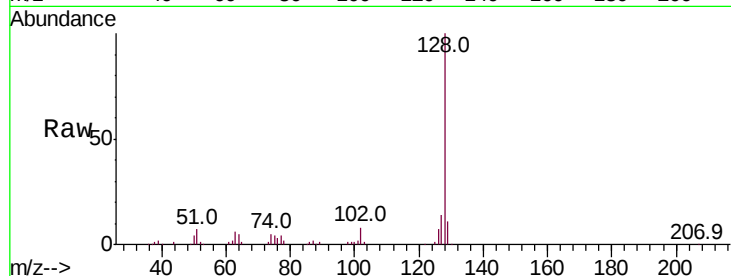
Tot Ion:128 Resp: 70303

Ion Ratio Lower Upper

128 100

129 10.9 8.6 13.0

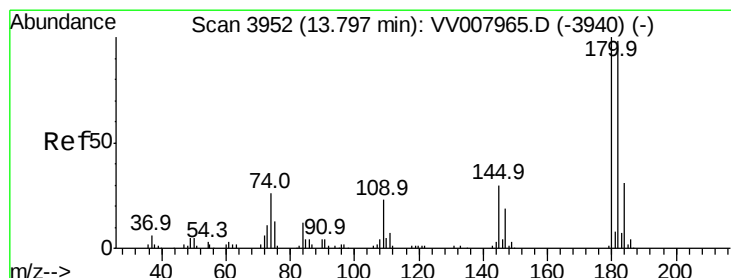
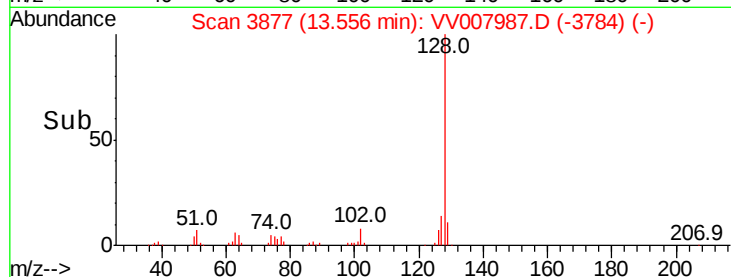
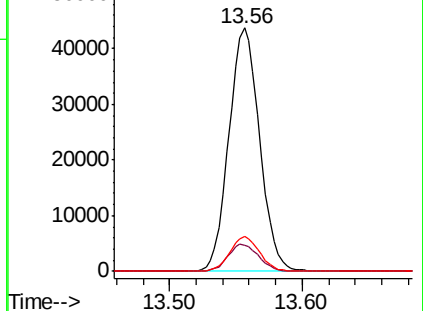
127 13.8 10.3 15.5



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



#70

1,2,3-Trichlorobenzene

Concen: 4.605 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VV007987.D

Acq: 29 Sep 2018 06:51

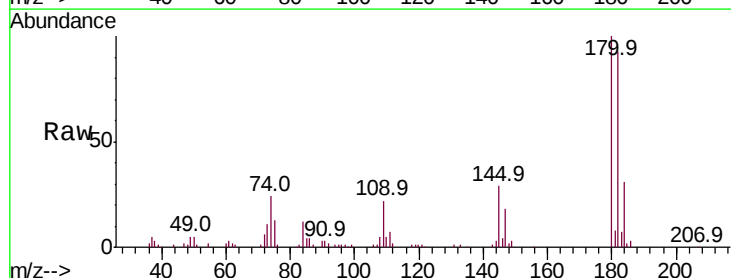
Tgt Ion:180 Resp: 49767

Ion Ratio Lower Upper

180 100

182 95.6 75.7 113.5

145 29.3 23.4 35.0



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

