

Data File : VV006115.D

Acq On : 31 May 2018 19:08

Operator : SY/MD

Sample : VSTD00162

Misc : 25 mL/MSVOA_V/WATER

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00162

Quant Time: Jun 01 07:53:04 2018

Quant Method : W:\HPCHEM1\MSVOA_V\METHOD\SOMVTR053118WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Fri Jun 01 07:29:00 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	286534	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	255442	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	116516	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	16358	0.75	ug/L	0.00
7) Chloroethane-d5	1.58	69	13262	0.83	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.13	63	32076	0.73	ug/L	0.00
20) 2-Butanone-d5	3.97	46	34046	7.54	ug/L	0.02
24) Chloroform-d	4.41	84	31642	0.83	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.09	65	15556	0.87	ug/L	0.00
32) Benzene-d6	5.10	84	64817	0.91	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.12	67	19603	0.89	ug/L	0.00
41) Toluene-d8	7.36	98	60258	0.91	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.67	79	8862	1.09	ug/L	0.00
46) 2-Hexanone-d5	8.14	63	36028	9.82	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.27	84	14392	0.95	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.68	152	21858	0.97	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	18209	0.56	ug/L	97
3) Chloromethane	1.26	50	17952	0.54	ug/L	95
5) Vinyl chloride	1.32	62	22908	0.62	ug/L	100
6) Bromomethane	1.54	94	12009	0.63	ug/L	94
8) Chloroethane	1.60	64	12442	0.61	ug/L	96
9) Trichlorofluoromethane	1.77	101	29874	0.64	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	18580	0.67	ug/L	100
12) 1,1-Dichloroethene	2.14	96	16496	0.62	ug/L	96
13) Acetone	2.22	43	16275	3.86	ug/L	91
14) Carbon disulfide	2.32	76	56856	0.67	ug/L	99
15) Methyl Acetate	2.47	43	5231	0.47	ug/L	97
16) Methylene chloride	2.54	84	18294	0.61	ug/L	98
17) Methyl tert-butyl Ether	2.82	73	41446	0.64	ug/L	98
18) trans-1,2-Dichloroethene	2.79	96	18678	0.64	ug/L	97
19) 1,1-Dichloroethane	3.23	63	31108	0.58	ug/L	95
21) 2-Butanone	4.06	43	33136	4.96	ug/L	93
22) cis-1,2-Dichloroethene	3.97	96	19810	0.66	ug/L	# 96
23) Bromochloromethane	4.31	128	8244	0.66	ug/L	96
25) Chloroform	4.44	83	33050	0.64	ug/L	97
27) 1,2-Dichloroethane	5.19	62	18177	0.59	ug/L	95
29) 1,1,1-Trichloroethane	4.67	97	28857	0.69	ug/L	98
30) Cyclohexane	4.73	56	30566	0.72	ug/L	97
31) Carbon tetrachloride	4.88	117	25678	0.69	ug/L	99
33) Benzene	5.15	78	72825	0.66	ug/L	100
34) Trichloroethene	5.96	95	19823	0.67	ug/L	99
35) Methylcyclohexane	6.18	83	33993	0.78	ug/L	99
37) 1,2-Dichloropropane	6.23	63	17691	0.62	ug/L	100
38) Bromodichloromethane	6.56	83	23194	0.71	ug/L	99
39) cis-1,3-Dichloropropene	7.08	75	28148	0.75	ug/L	98
40) 4-Methyl-2-pentanone	7.29	43	89119	5.85	ug/L	99

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Instrument :
MSVOA_V
ClientSampleId :
VSTD00162

Quant Time: Jun 01 07:53:04 2018
Quant Method : W:\HPCHEM1\MSVOA_V\METHOD\SOMVTR053118WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Jun 01 07:29:00 2018
Response via : Initial Calibration

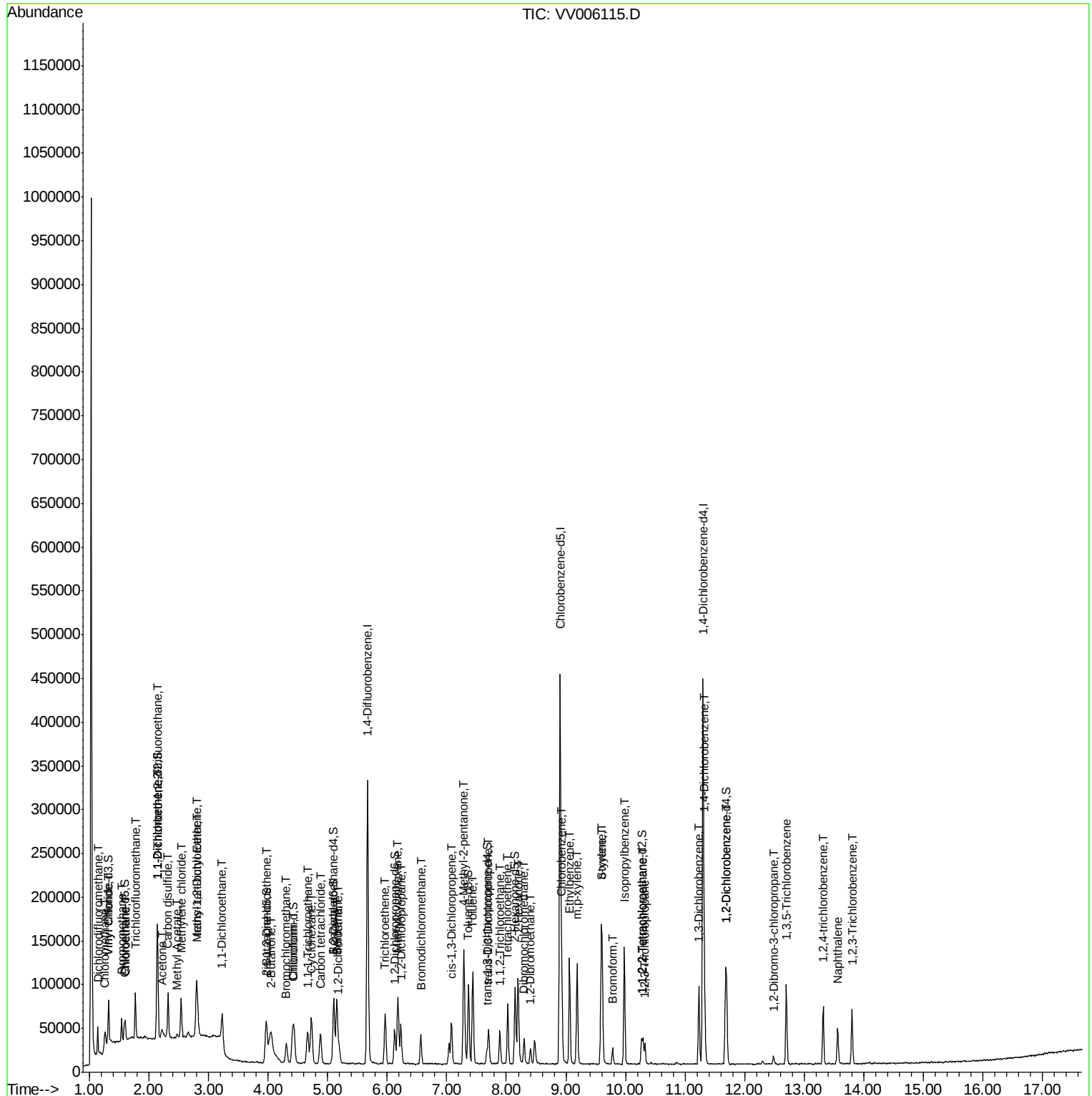
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.44	91	80702	0.71	ug/L	100
44) trans-1,3-Dichloropropene	7.70	75	22666	0.74	ug/L	98
45) 1,1,2-Trichloroethane	7.89	97	12535	0.68	ug/L	96
47) Tetrachloroethene	8.03	164	15630	0.66	ug/L	97
48) 2-Hexanone	8.20	43	63849	5.90	ug/L	99
49) Dibromochloromethane	8.30	129	15200	0.71	ug/L	96
50) 1,2-Dibromoethane	8.40	107	11393	0.67	ug/L	93
51) Chlorobenzene	8.93	112	50058	0.68	ug/L	99
52) Ethylbenzene	9.06	91	87884	0.73	ug/L	99
53) m,p-xylene	9.19	106	34470	0.76	ug/L	100
54) o-xylene	9.59	106	33702	0.76	ug/L	98
55) Styrene	9.61	104	54000	0.73	ug/L	97
56) Isopropylbenzene	9.98	105	86988	0.75	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.29	83	14286	0.67	ug/L	96
59) 1,2,3-Trichloropropane	10.33	75	9668	0.62	ug/L	98
61) Bromoform	9.78	173	8154	0.72	ug/L	99
62) 1,3-Dichlorobenzene	11.23	146	37993	0.73	ug/L	98
63) 1,4-Dichlorobenzene	11.32	146	37111	0.70	ug/L	98
65) 1,2-Dichlorobenzene	11.70	146	35041	0.69	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.48	75	2397	0.82	ug/L	94
67) 1,3,5-Trichlorobenzene	12.70	180	28572	0.69	ug/L	100
68) 1,2,4-trichlorobenzene	13.32	180	20567	0.64	ug/L	99
69) Naphthalene	13.56	128	33846	0.71	ug/L	99
70) 1,2,3-Trichlorobenzene	13.80	180	19409	0.65	ug/L	99

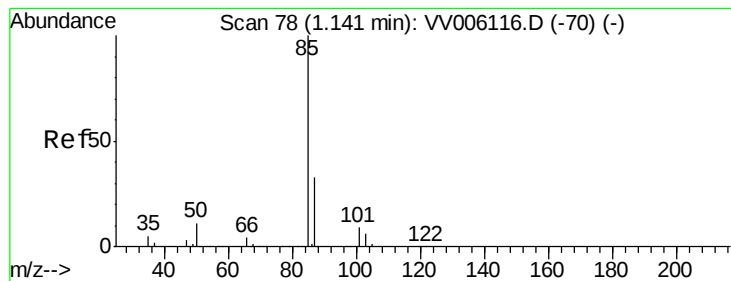
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ALS Vial : 1 Sample Multiplier: 1

VSTD00162

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 0.56 ug/L

RT: 1.14 min Scan# 78

Delta R.T. -0.00 min

Lab File: VV006115.D

Acq: 31 May 2018 19:08

Instrument :

MSVOA_V

ClientSampleId :

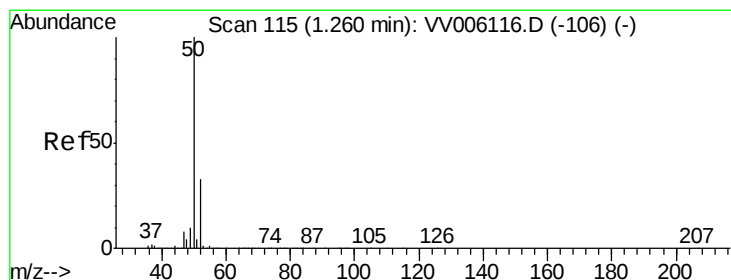
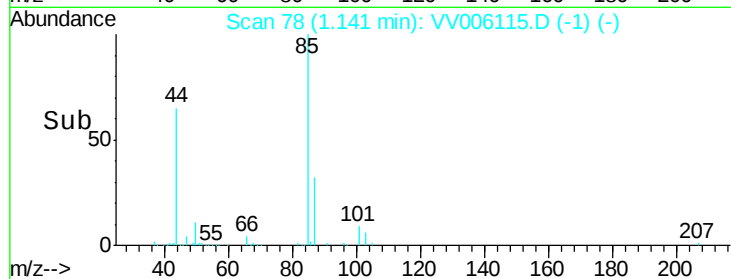
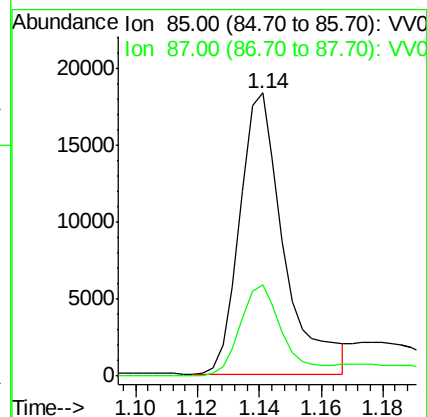
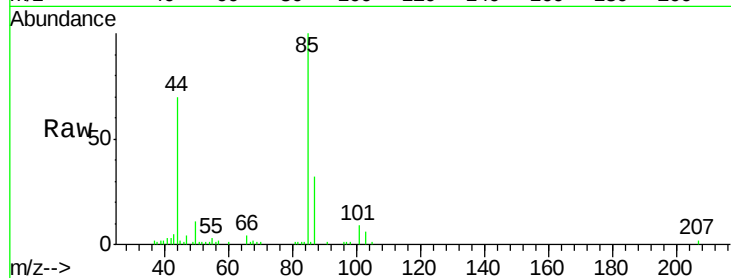
VSTD00162

Tgt Ion: 85 Resp: 18209

Ion Ratio Lower Upper

85 100

87 31.0 26.2 39.4



#3

Chloromethane

Concen: 0.54 ug/L

RT: 1.26 min Scan# 115

Delta R.T. -0.00 min

Lab File: VV006115.D

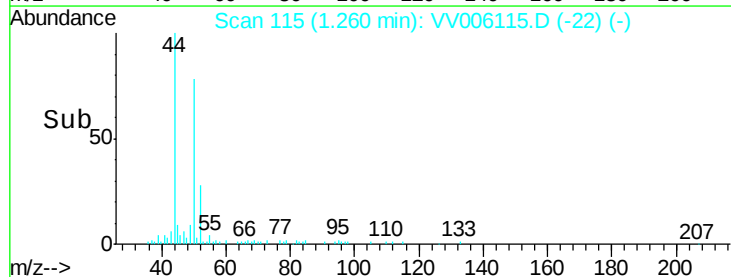
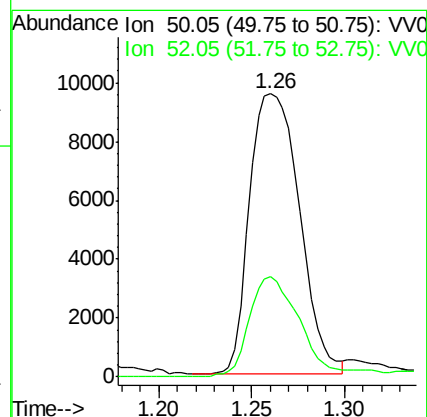
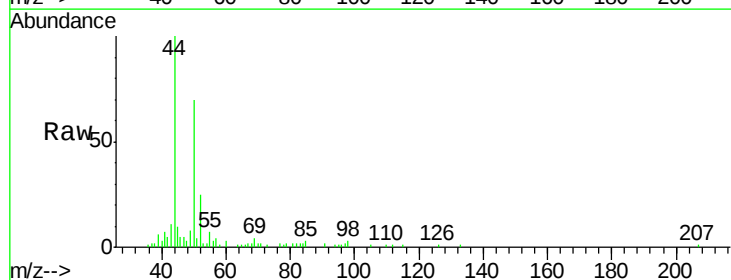
Acq: 31 May 2018 19:08

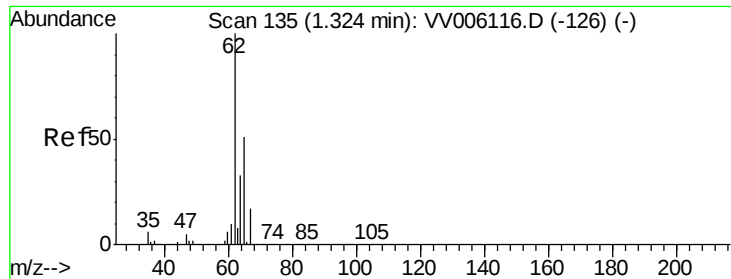
Tgt Ion: 50 Resp: 17952

Ion Ratio Lower Upper

50 100

52 35.5 23.0 42.8





#5

Vinyl chloride

Concen: 0.62 ug/L

RT: 1.32 min Scan# 135

Delta R.T. -0.00 min

Lab File: VV006115.D

Acq: 31 May 2018 19:08

Instrument :

MSVOA_V

ClientSampleId :

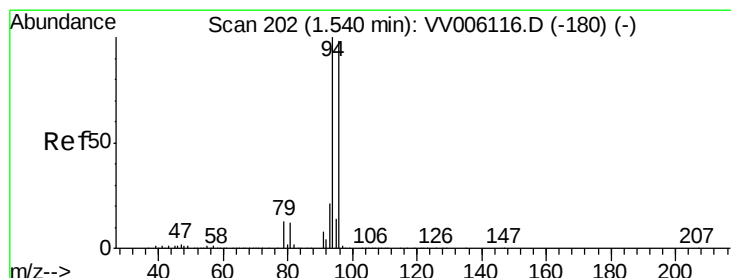
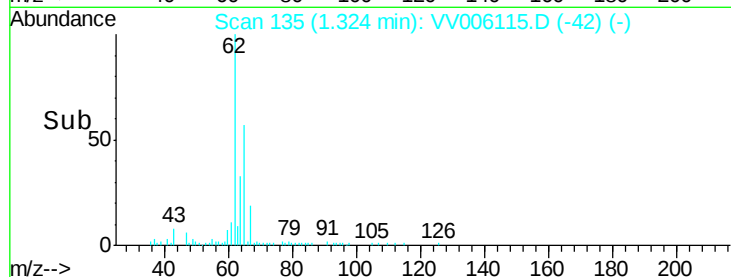
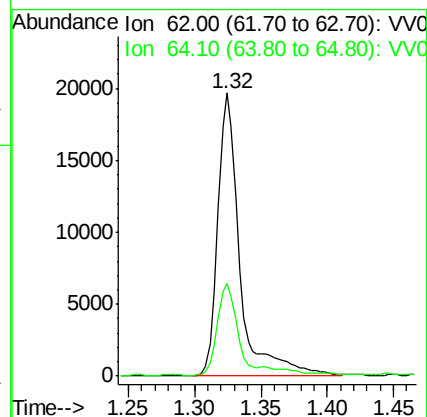
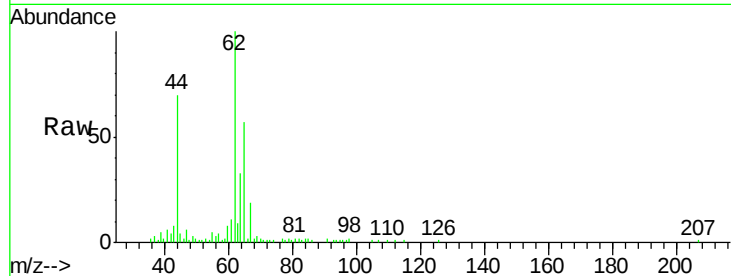
VSTD00162

Tgt Ion: 62 Resp: 22908

Ion Ratio Lower Upper

62 100

64 32.8 23.1 42.9



#6

Bromomethane

Concen: 0.63 ug/L

RT: 1.54 min Scan# 202

Delta R.T. -0.00 min

Lab File: VV006115.D

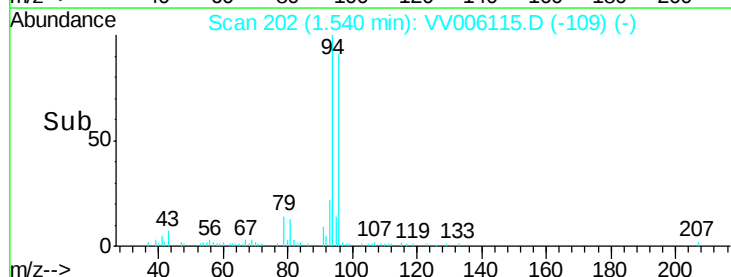
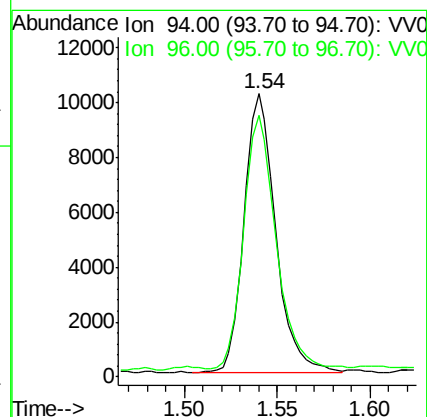
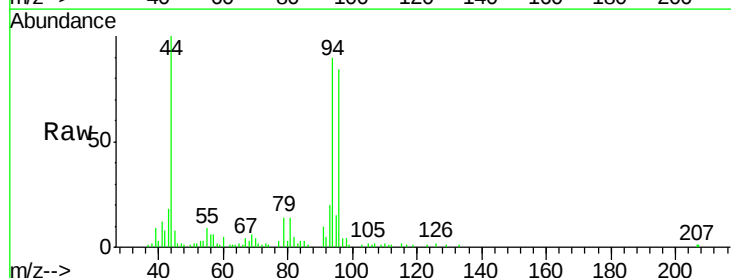
Acq: 31 May 2018 19:08

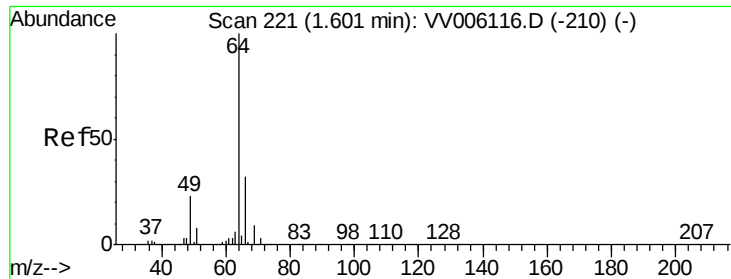
Tgt Ion: 94 Resp: 12009

Ion Ratio Lower Upper

94 100

96 92.4 68.9 127.9





#8

Chloroethane

Concen: 0.61 ug/L

RT: 1.60 min Scan# 222

Delta R.T. 0.00 min

Lab File: VV006115.D

Acq: 31 May 2018 19:08

Instrument :

MSVOA_V

ClientSampleId :

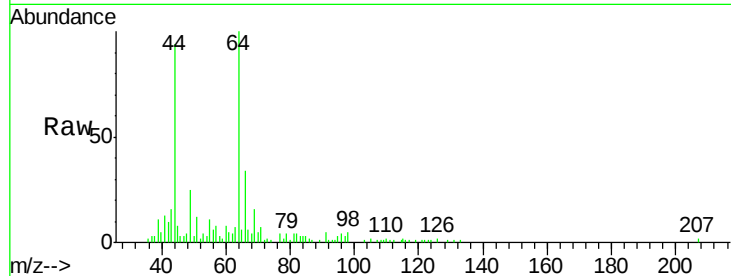
VSTD00162

Tgt Ion: 64 Resp: 12442

Ion Ratio Lower Upper

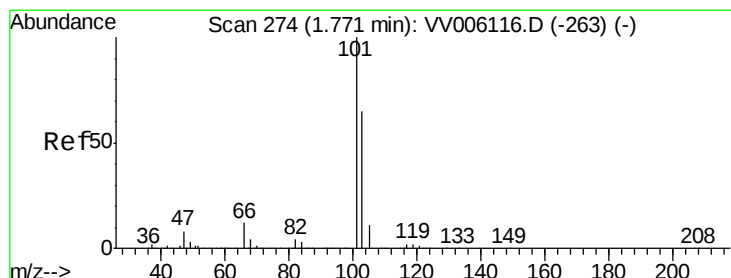
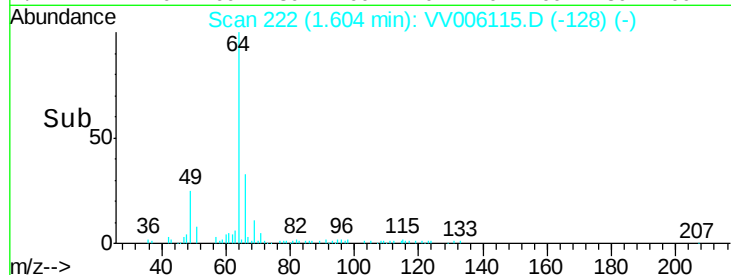
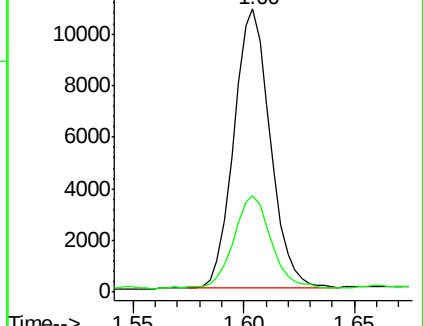
64 100

66 34.3 22.5 41.7



Abundance Ion 64.10 (63.80 to 64.80): VV006116.D (-210) (-)

Ion 66.05 (65.75 to 66.75): VV006116.D (-210) (-)



#9

Trichlorofluoromethane

Concen: 0.64 ug/L

RT: 1.77 min Scan# 274

Delta R.T. -0.00 min

Lab File: VV006115.D

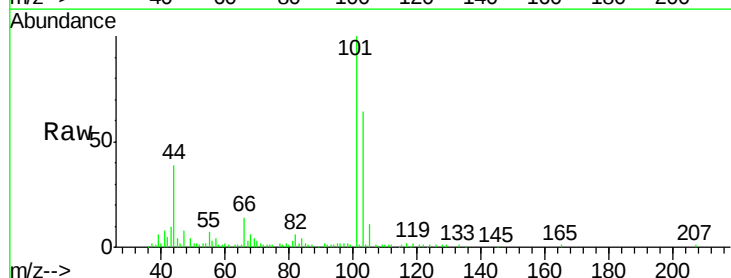
Acq: 31 May 2018 19:08

Tgt Ion: 101 Resp: 29874

Ion Ratio Lower Upper

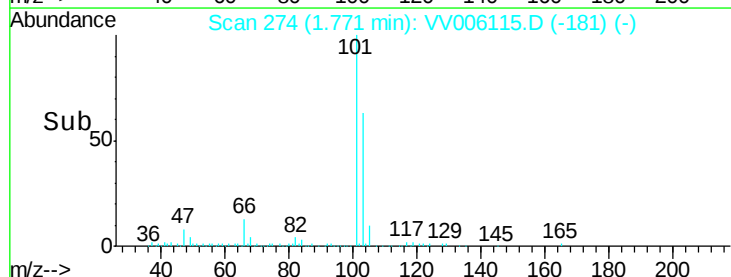
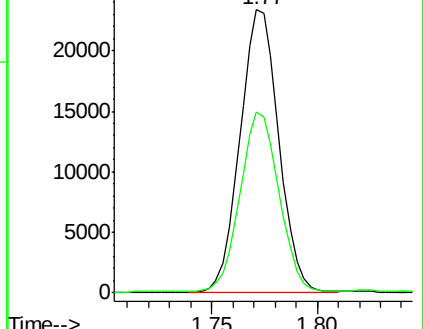
101 100

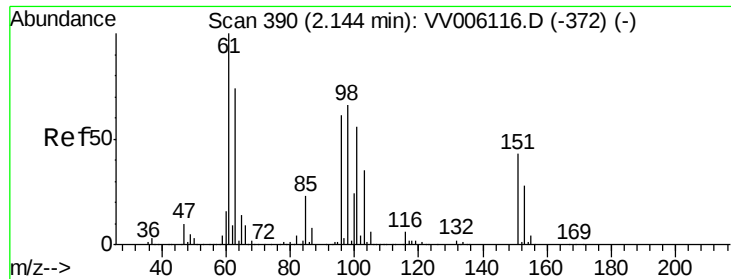
103 65.6 52.0 78.0



Abundance Ion 101.00 (100.70 to 101.70): VV006116.D (-263) (-)

Ion 103.00 (102.70 to 103.70): VV006116.D (-263) (-)





#10

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

Concen: 0.67 ug/L

RT: 2.14 min Scan# 390

Delta R.T. -0.00 min

Lab File: VV006115.D

Acq: 31 May 2018 19:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD00162

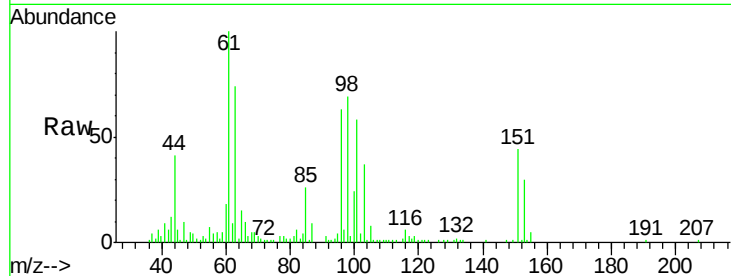
Tgt Ion: 101 Resp: 18580

Ion Ratio Lower Upper

101 100

85 40.4 32.6 49.0

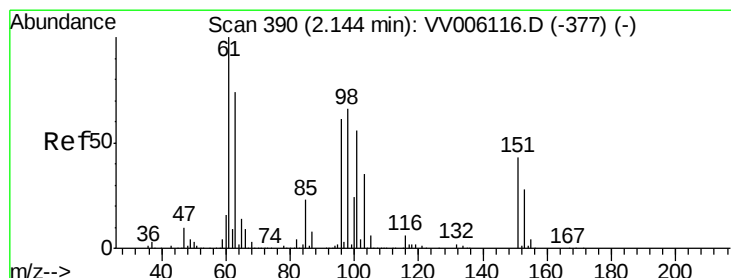
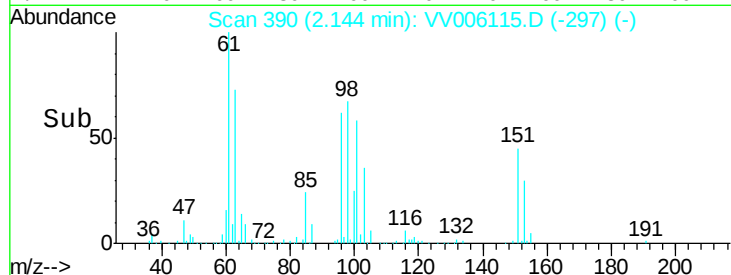
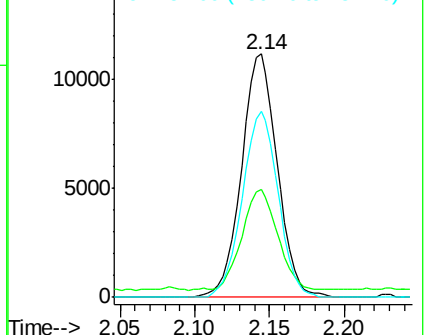
151 76.4 60.9 91.3



Abundance Ion 101.00 (100.70 to 101.70): VV006115.D (-297) (-)

Ion 85.00 (84.70 to 85.70): VV006115.D (-297) (-)

Ion 151.00 (150.70 to 151.70): VV006115.D (-297) (-)



#12

1,1-Dichloroethene

Concen: 0.62 ug/L

RT: 2.14 min Scan# 390

Delta R.T. -0.00 min

Lab File: VV006115.D

Acq: 31 May 2018 19:08

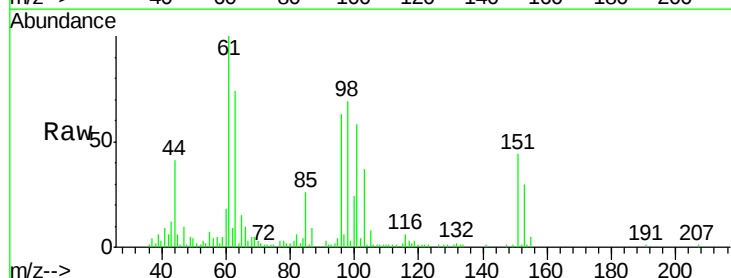
Tgt Ion: 96 Resp: 16496

Ion Ratio Lower Upper

96 100

61 158.5 114.2 212.2

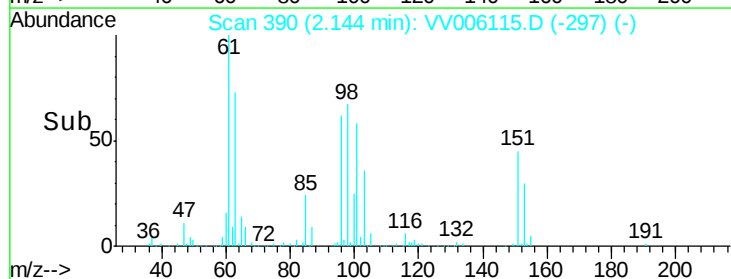
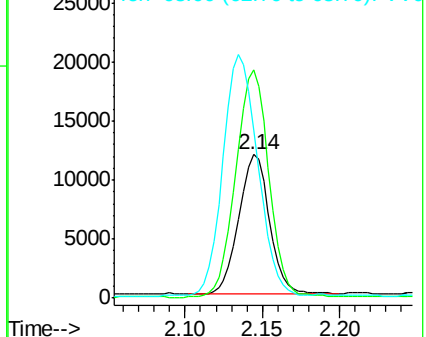
63 117.1 85.0 157.8

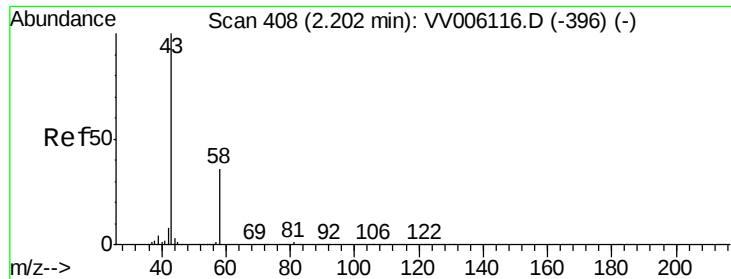


Abundance Ion 96.00 (95.70 to 96.70): VV006115.D (-297) (-)

Ion 61.05 (60.75 to 61.75): VV006115.D (-297) (-)

Ion 63.00 (62.70 to 63.70): VV006115.D (-297) (-)

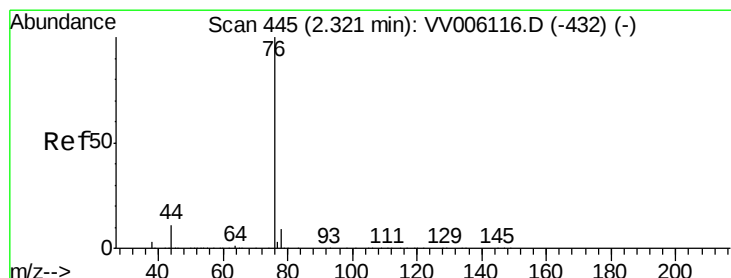
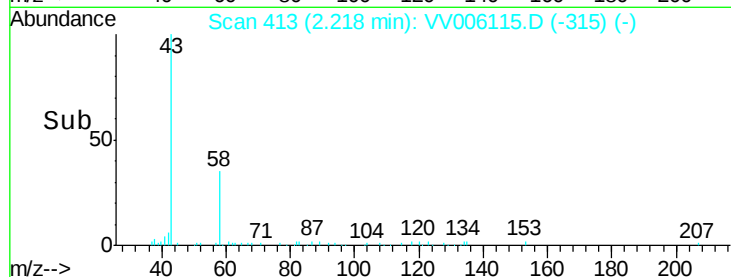
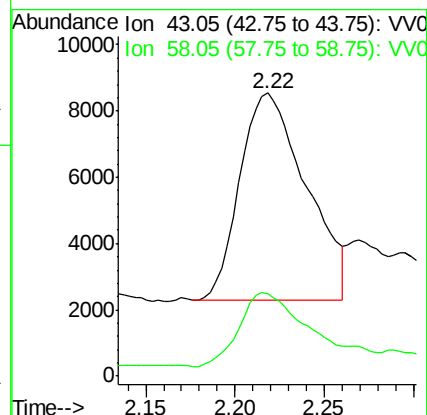
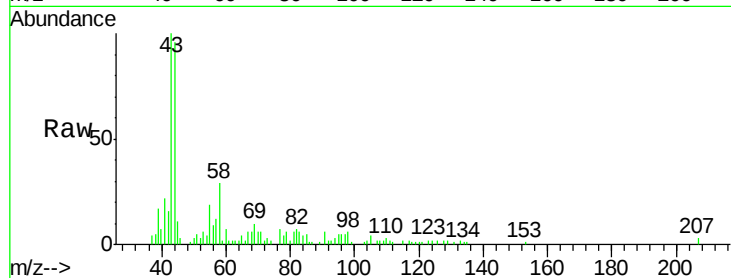




#13
Acetone
Concen: 3.86 ug/L
RT: 2.22 min Scan# 413
Delta R.T. 0.02 min
Lab File: VV006115.D
Acq: 31 May 2018 19:08

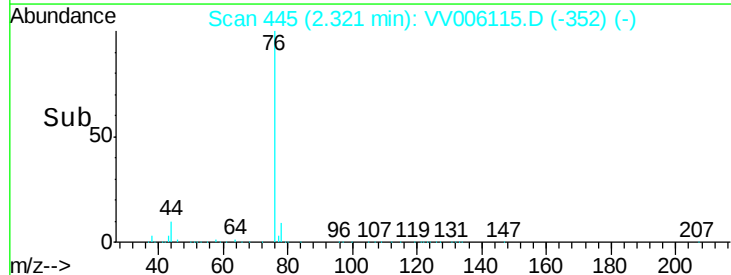
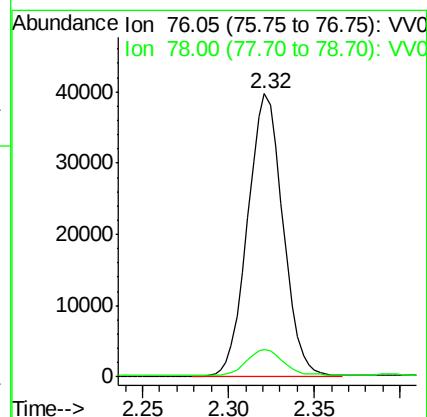
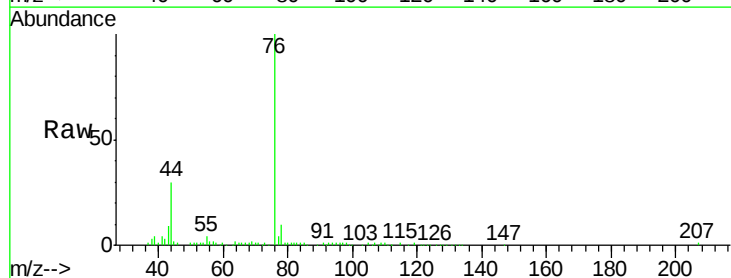
Instrument :
MSVOA_V
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VSTD00162

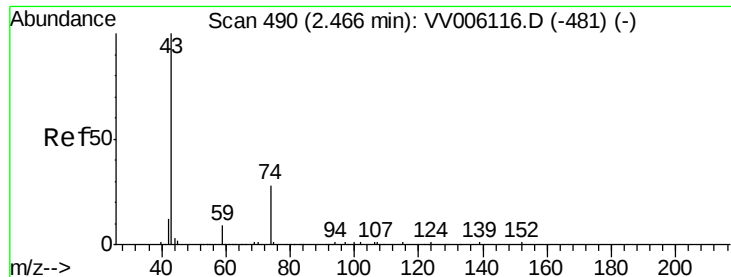
Tgt Ion: 43 Resp: 16275
Ion Ratio Lower Upper
43 100
58 38.7 0.0 67.4



#14
Carbon disulfide
Concen: 0.67 ug/L
RT: 2.32 min Scan# 445
Delta R.T. -0.00 min
Lab File: VV006115.D
Acq: 31 May 2018 19:08

Tgt Ion: 76 Resp: 56856
Ion Ratio Lower Upper
76 100
78 9.6 7.5 11.3





#15

Methyl Acetate

Concen: 0.47 ug/L

RT: 2.47 min Scan# 492

Delta R.T. 0.01 min

Lab File: VV006115.D

Acq: 31 May 2018 19:08

Instrument :

MSVOA_V

ClientSampleId :

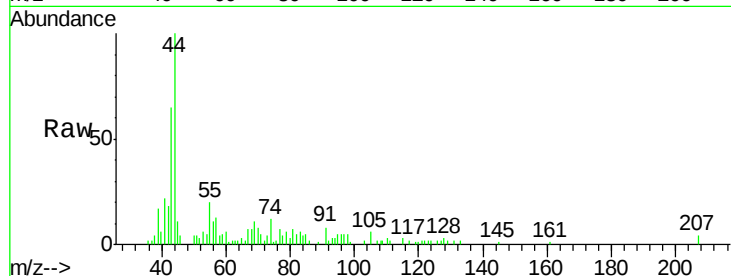
VSTD00162

Tgt Ion: 43 Resp: 5231

Ion Ratio Lower Upper

43 100

74 30.6 23.4 35.0

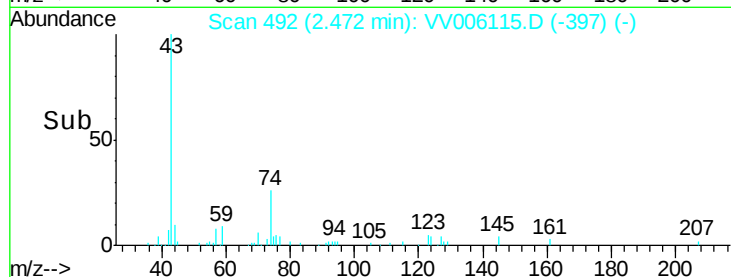


Abundance Ion 43.05 (42.75 to 43.75): VV006115.D (-397) (-)

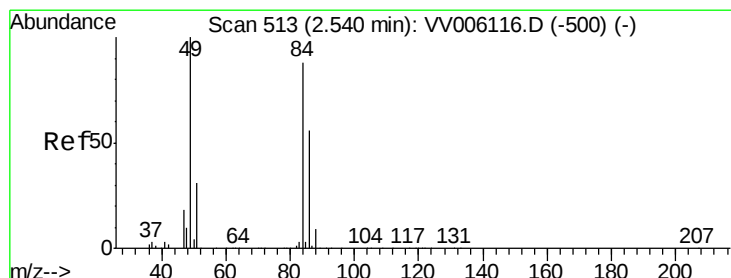
Ion 74.05 (73.75 to 74.75): VV006115.D (-397) (-)

2.47

2.45 2.50



Time-->



#16

Methylene chloride

Concen: 0.61 ug/L

RT: 2.54 min Scan# 513

Delta R.T. -0.00 min

Lab File: VV006115.D

Acq: 31 May 2018 19:08

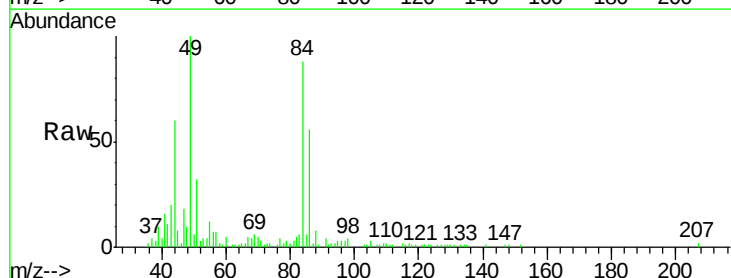
Tgt Ion: 84 Resp: 18294

Ion Ratio Lower Upper

84 100

86 64.4 44.2 82.0

49 114.1 78.8 146.4



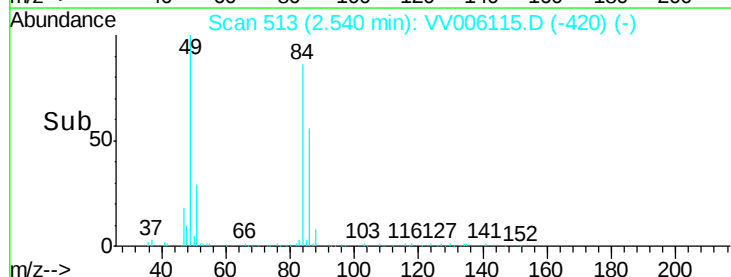
Abundance Ion 84.05 (83.75 to 84.75): VV006115.D (-420) (-)

Ion 86.00 (85.70 to 86.70): VV006115.D (-420) (-)

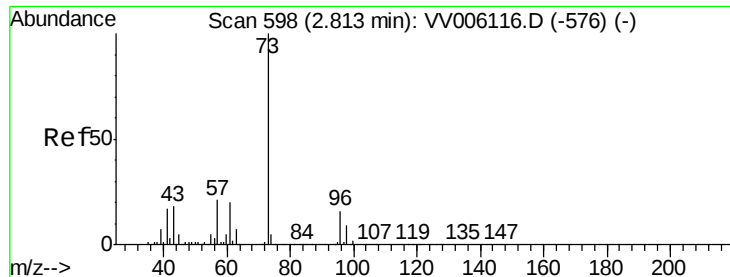
Ion 49.10 (48.80 to 49.80): VV006115.D (-420) (-)

2.54

2.50 2.55 2.60



Time-->



#17

Methyl tert-butyl Ether

Concen: 0.64 ug/L

RT: 2.82 min Scan# 599

Delta R.T. 0.00 min

Lab File: VV006115.D

Acq: 31 May 2018 19:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD00162

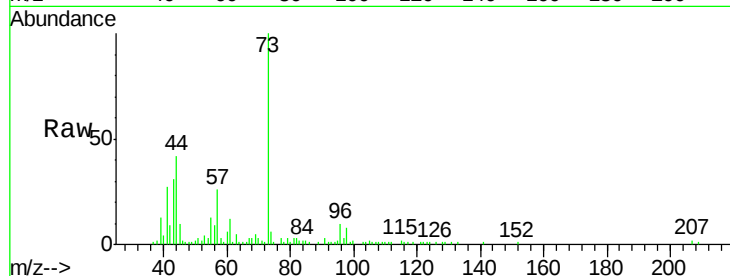
Tgt Ion: 73 Resp: 41446

Ion Ratio Lower Upper

73 100

43 19.4 14.2 21.4

57 21.5 16.8 25.2



Abundance Ion 73.10 (72.80 to 73.80): VV006115.D (-598) (-)

Ion 43.05 (42.75 to 43.75): VV006115.D (-598) (-)

Ion 57.10 (56.80 to 57.80): VV006115.D (-598) (-)

Time-->

2.70 2.75 2.80 2.85 2.90

2.82

20000

15000

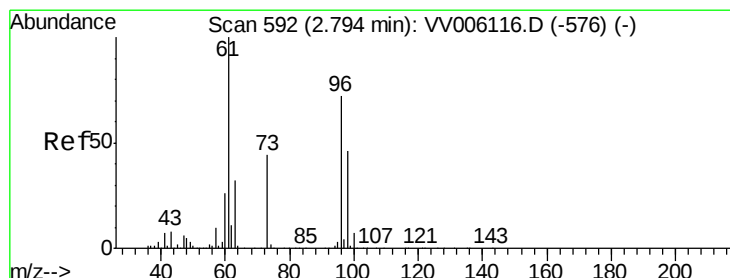
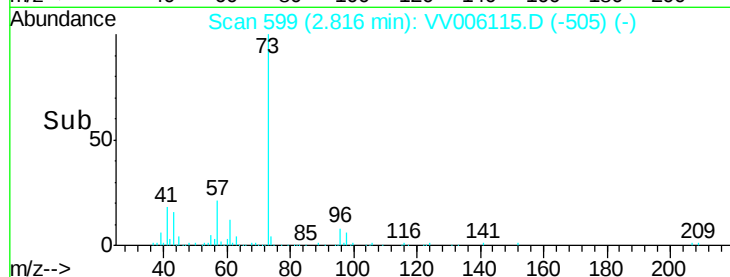
10000

5000

0

2.70 2.75 2.80 2.85 2.90

Time-->



#18

trans-1,2-Dichloroethene

Concen: 0.64 ug/L

RT: 2.79 min Scan# 592

Delta R.T. -0.00 min

Lab File: VV006115.D

Acq: 31 May 2018 19:08

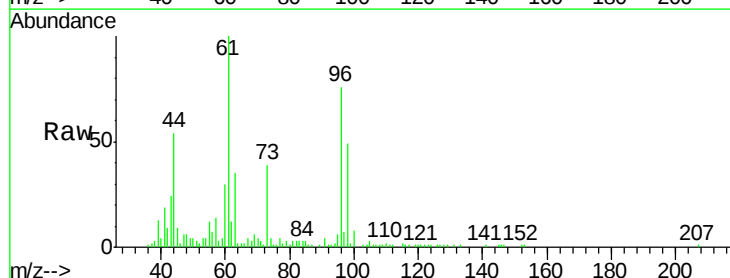
Tgt Ion: 96 Resp: 18678

Ion Ratio Lower Upper

96 100

61 131.6 96.3 178.9

98 65.0 45.4 84.2



Abundance Ion 96.00 (95.70 to 96.70): VV006115.D (-592) (-)

Ion 61.05 (60.75 to 61.75): VV006115.D (-592) (-)

Ion 97.95 (97.65 to 98.65): VV006115.D (-592) (-)

Time-->

2.70 2.75 2.80 2.85 2.90

2.79

20000

15000

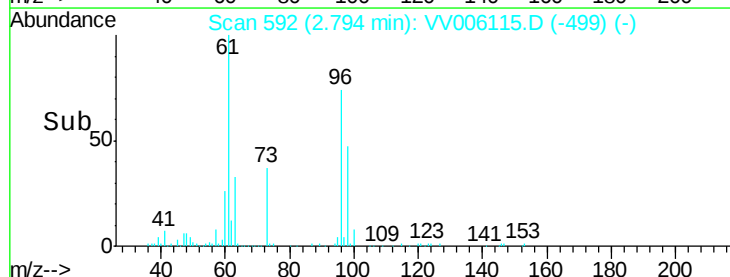
10000

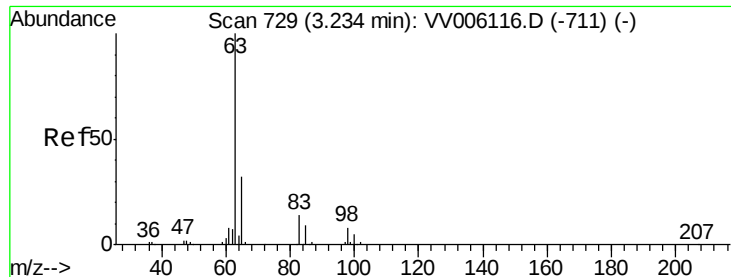
5000

0

2.70 2.75 2.80 2.85 2.90

Time-->

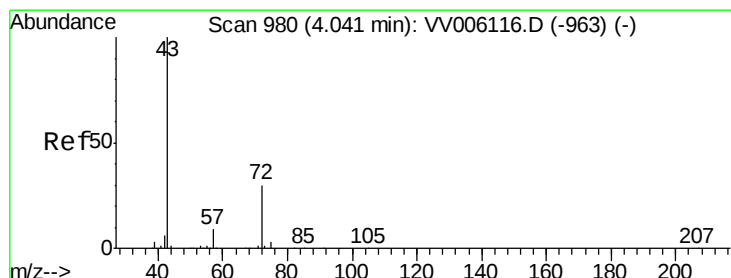
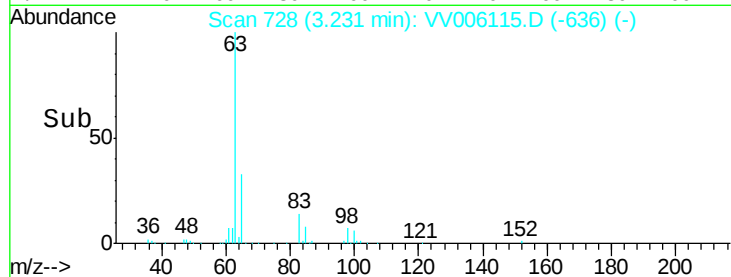
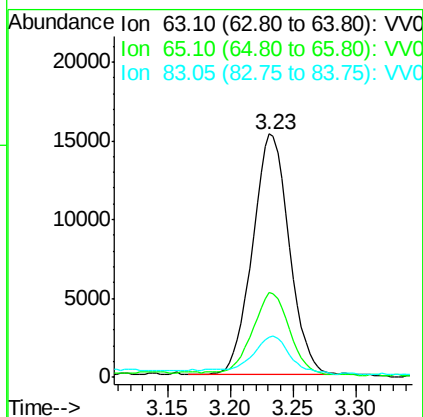
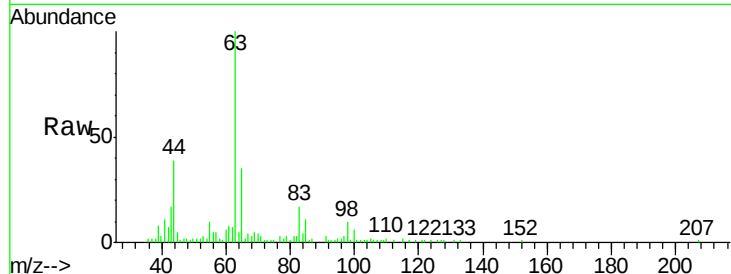




#19
 1,1-Dichloroethane
 Concen: 0.58 ug/L
 RT: 3.23 min Scan# 728
 Delta R.T. -0.00 min
 Lab File: VV006115.D
 Acq: 31 May 2018 19:08

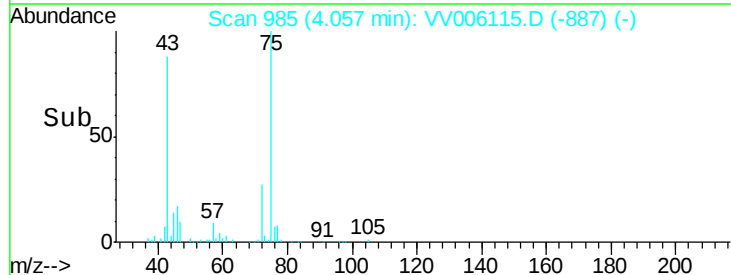
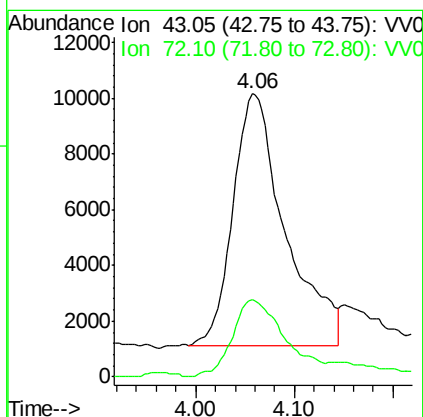
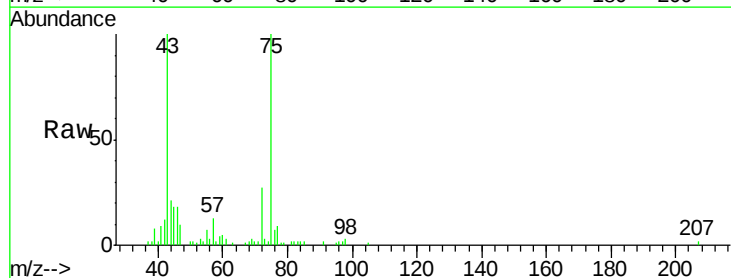
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00162

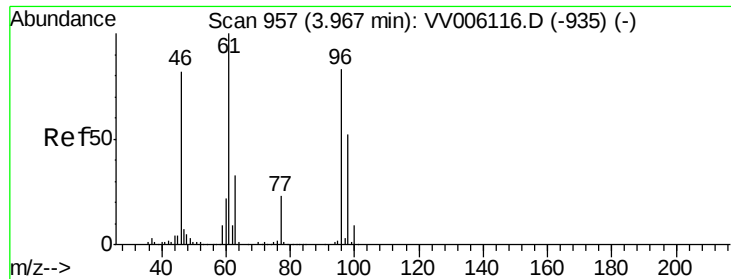
Tgt Ion	Ratio	Lower	Upper
63	100		
65	34.7	22.3	41.3
83	16.6	10.0	18.6



#21
 2-Butanone
 Concen: 4.96 ug/L
 RT: 4.06 min Scan# 985
 Delta R.T. 0.02 min
 Lab File: VV006115.D
 Acq: 31 May 2018 19:08

Tgt Ion	Ratio	Lower	Upper
43	100		
72	31.2	13.8	41.3





#22

cis-1,2-Dichloroethene

Concen: 0.66 ug/L

RT: 3.97 min Scan# 957

Delta R.T. -0.00 min

Lab File: VV006115.D

Acq: 31 May 2018 19:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD00162

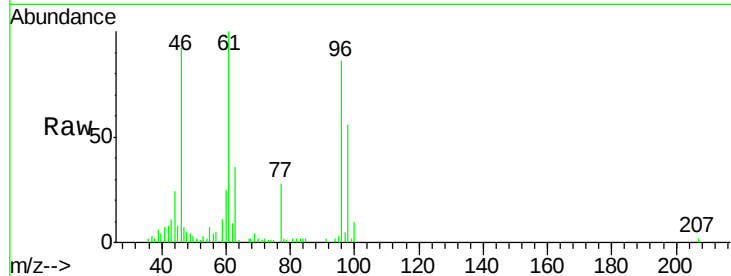
Tgt Ion: 96 Resp: 19810

Ion Ratio Lower Upper

96 100

61 116.0 84.1 156.3

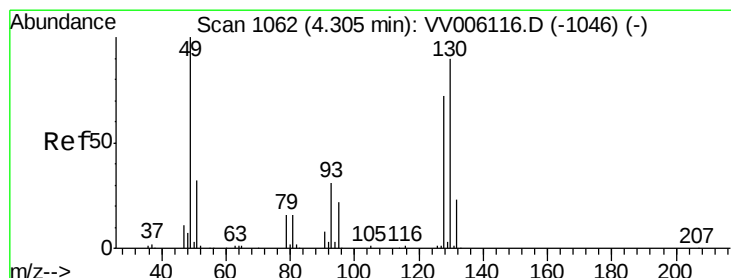
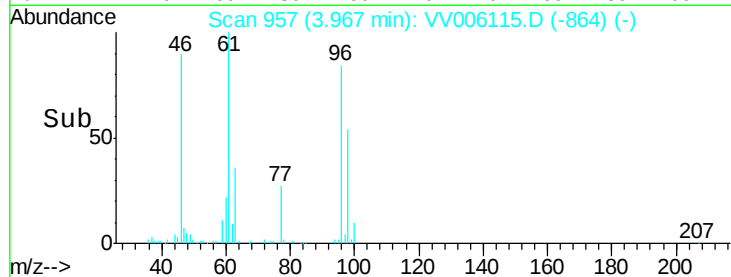
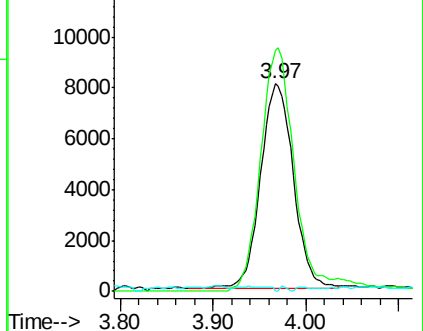
68 0.0 0.3 0.5#



Abundance Ion 96.00 (95.70 to 96.70): VV006115.D (-969) (-)

Ion 61.05 (60.75 to 61.75): VV006115.D (-969) (-)

Ion 68.15 (67.85 to 68.85): VV006115.D (-969) (-)



#23

Bromochloromethane

Concen: 0.66 ug/L

RT: 4.31 min Scan# 1063

Delta R.T. 0.00 min

Lab File: VV006115.D

Acq: 31 May 2018 19:08

Tgt Ion: 128 Resp: 8244

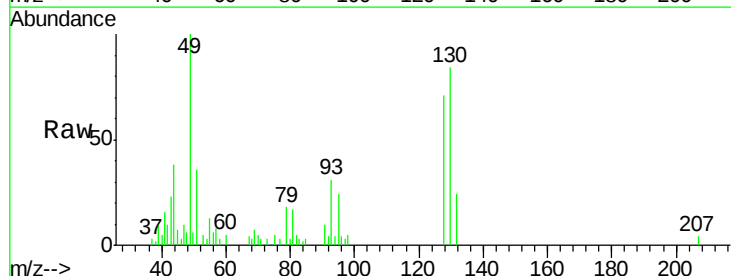
Ion Ratio Lower Upper

128 100

49 140.7 97.1 180.3

130 117.6 86.6 160.8

51 50.7 35.9 53.9

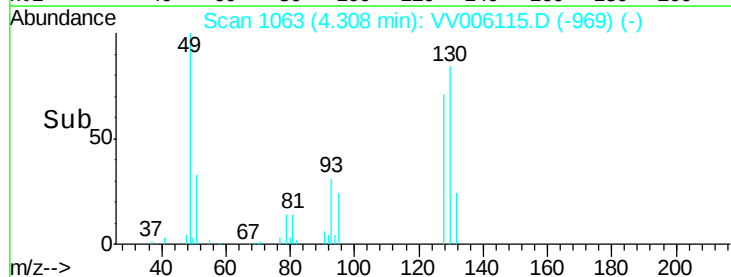
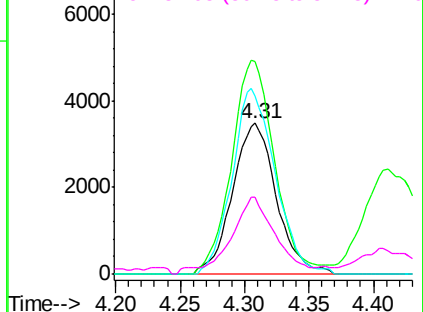


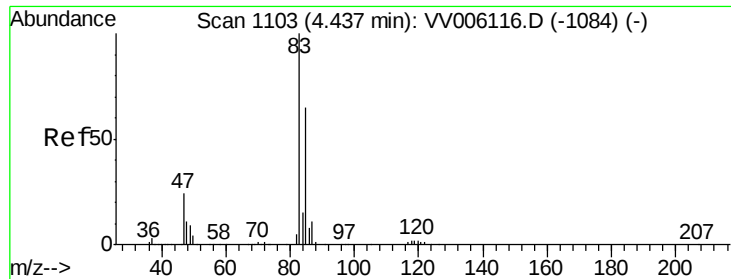
Abundance Ion 127.90 (127.60 to 128.60): VV006115.D (-969) (-)

Ion 49.10 (48.80 to 49.80): VV006115.D (-969) (-)

Ion 129.95 (129.65 to 130.65): VV006115.D (-969) (-)

Ion 51.05 (50.75 to 51.75): VV006115.D (-969) (-)





#25

Chloroform

Concen: 0.64 ug/L

RT: 4.44 min Scan# 1103

Delta R.T. -0.00 min

Lab File: VV006115.D

Acq: 31 May 2018 19:08

Instrument :

MSVOA_V

ClientSampleId :

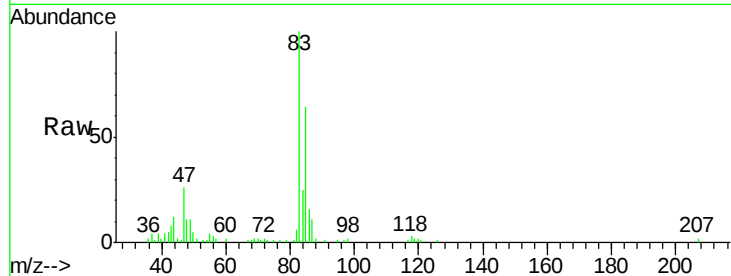
VSTD00162

Tgt Ion: 83 Resp: 33050

Ion Ratio Lower Upper

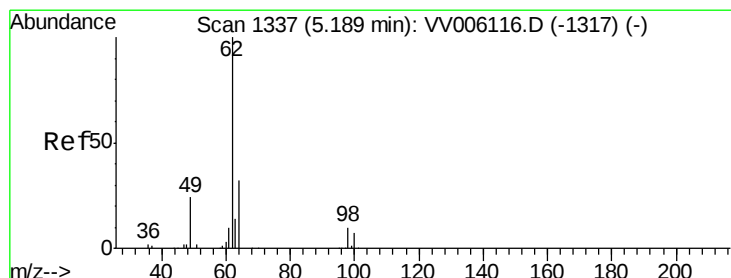
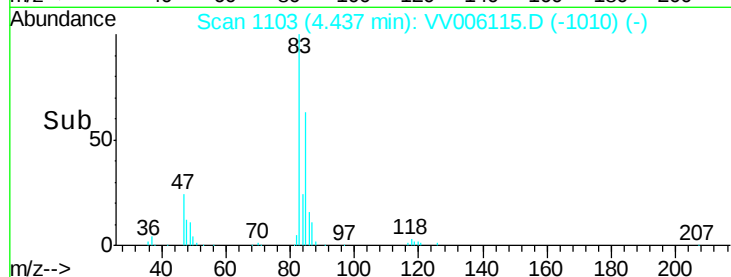
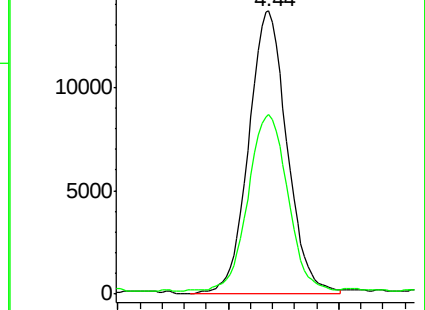
83 100

85 63.6 46.2 85.8



Abundance Ion 83.05 (82.75 to 83.75): VV006115.D (-1010) (-)

Ion 85.00 (84.70 to 85.70): VV006115.D (-1010) (-)



#27

1,2-Dichloroethane

Concen: 0.59 ug/L

RT: 5.19 min Scan# 1337

Delta R.T. -0.00 min

Lab File: VV006115.D

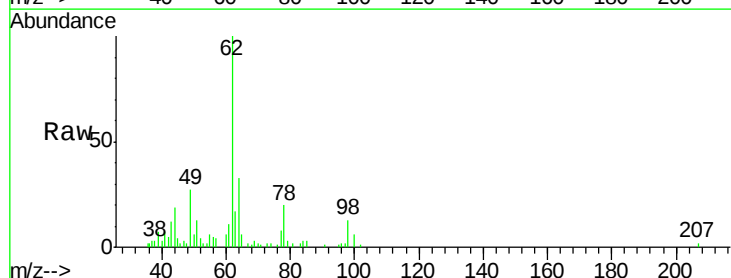
Acq: 31 May 2018 19:08

Tgt Ion: 62 Resp: 18177

Ion Ratio Lower Upper

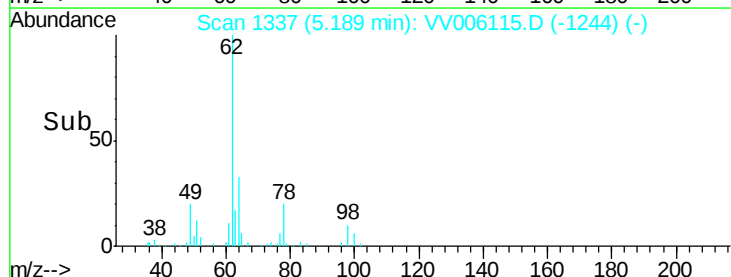
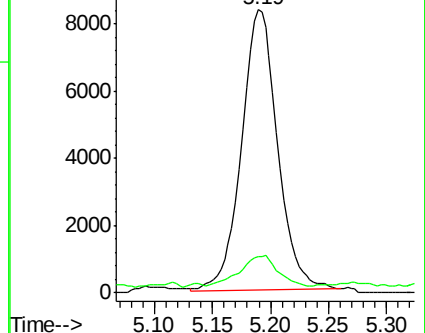
62 100

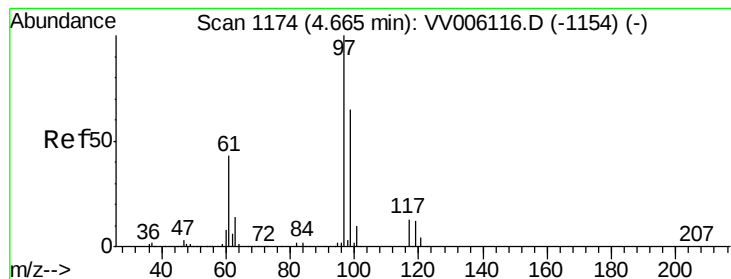
98 12.7 8.6 12.8



Abundance Ion 62.00 (61.70 to 62.70): VV006115.D (-1244) (-)

Ion 98.05 (97.75 to 98.75): VV006115.D (-1244) (-)





#29

1,1,1-Trichloroethane

Concen: 0.69 ug/L

RT: 4.67 min Scan# 1174

Delta R.T. -0.00 min

Lab File: VV006115.D

Acq: 31 May 2018 19:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD00162

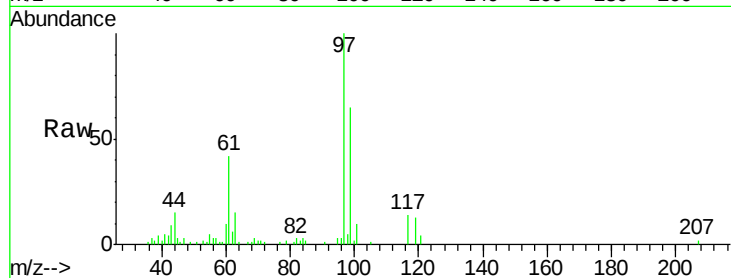
Tgt Ion: 97 Resp: 28857

Ion Ratio Lower Upper

97 100

99 66.5 51.5 77.3

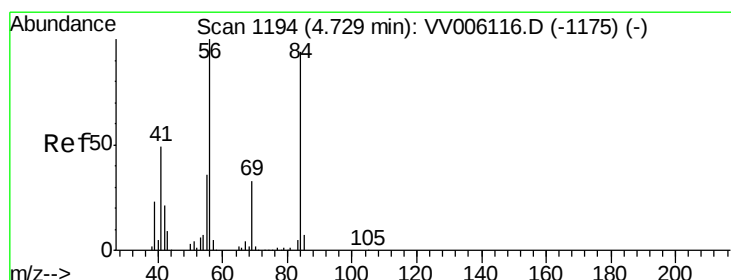
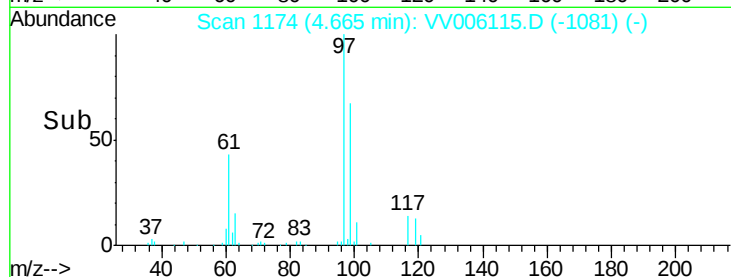
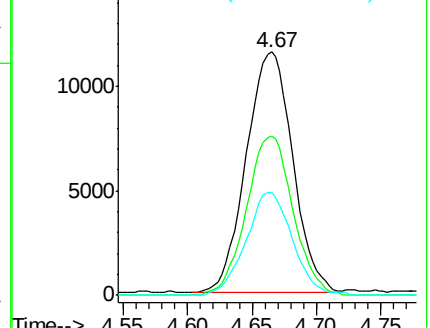
61 42.5 33.7 50.5



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



#30

Cyclohexane

Concen: 0.72 ug/L

RT: 4.73 min Scan# 1193

Delta R.T. -0.00 min

Lab File: VV006115.D

Acq: 31 May 2018 19:08

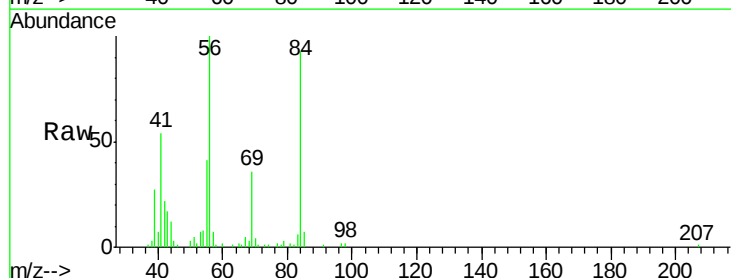
Tgt Ion: 56 Resp: 30566

Ion Ratio Lower Upper

56 100

69 33.9 26.4 39.6

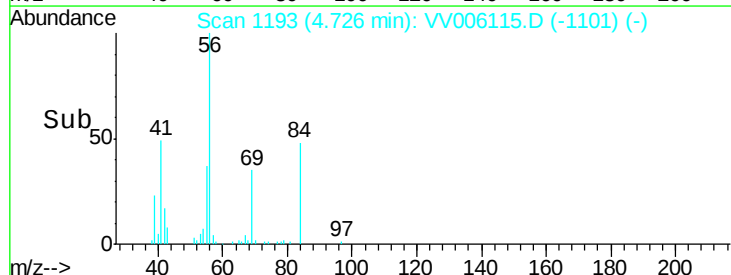
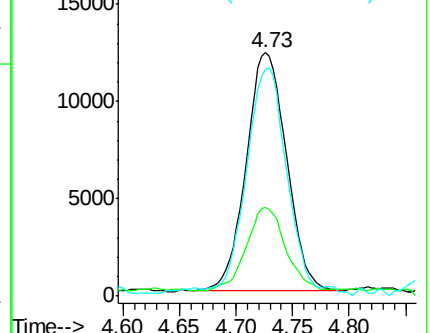
84 95.0 78.9 118.3

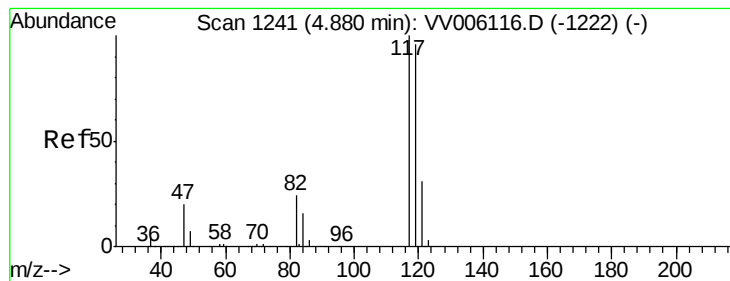


Abundance Ion 56.10 (55.80 to 56.80): VV0

Ion 69.15 (68.85 to 69.85): VV0

Ion 84.15 (83.85 to 84.85): VV0





#31

Carbon tetrachloride

Concen: 0.69 ug/L

RT: 4.88 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VV006115.D

Acq: 31 May 2018 19:08

Instrument :

MSVOA_V

ClientSampleId :

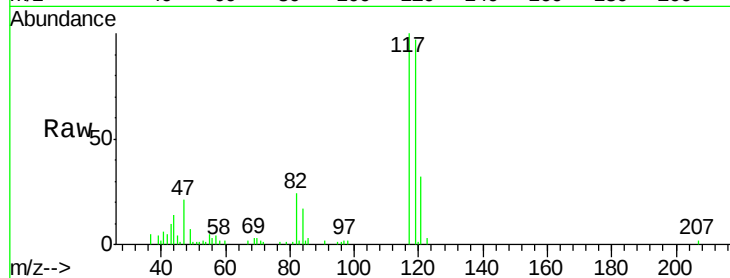
VSTD00162

Tgt Ion:117 Resp: 25678

Ion Ratio Lower Upper

117 100

119 95.7 76.1 114.1



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

4.88

12000

10000

8000

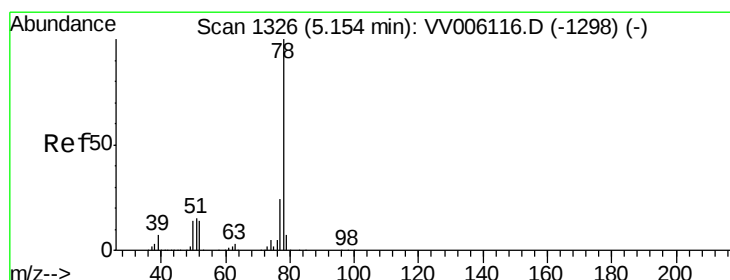
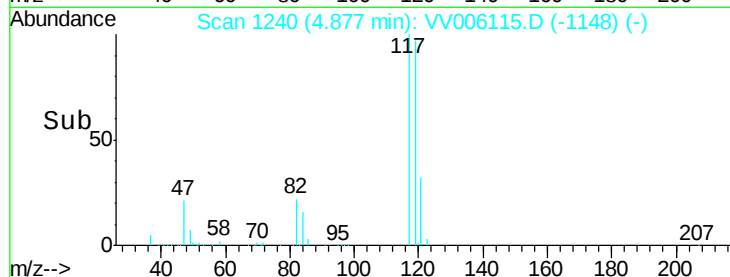
6000

4000

2000

0

Time-->



#33

Benzene

Concen: 0.66 ug/L

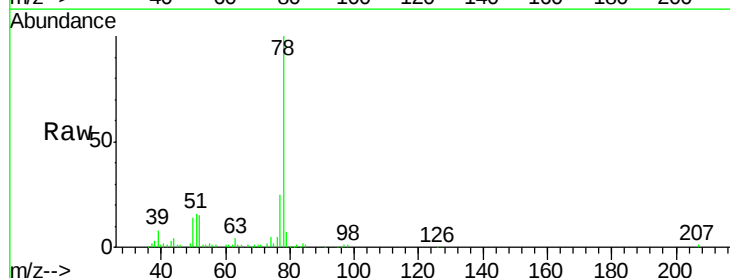
RT: 5.15 min Scan# 1326

Delta R.T. -0.00 min

Lab File: VV006115.D

Acq: 31 May 2018 19:08

Tgt Ion: 78 Resp: 72825



Abundance Ion 78.10 (77.80 to 78.80): VV0

5.15

40000

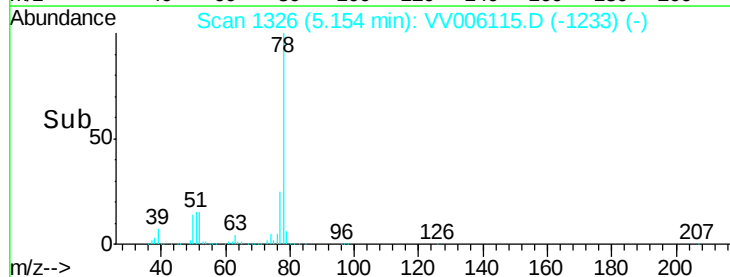
30000

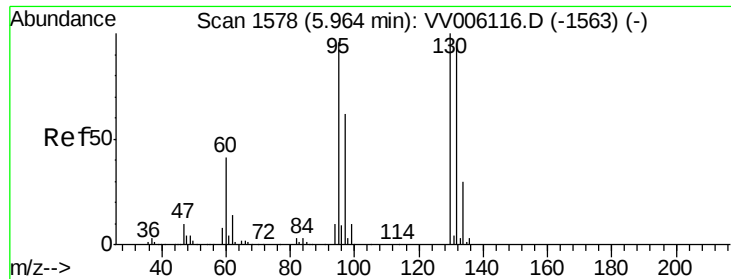
20000

10000

0

Time-->

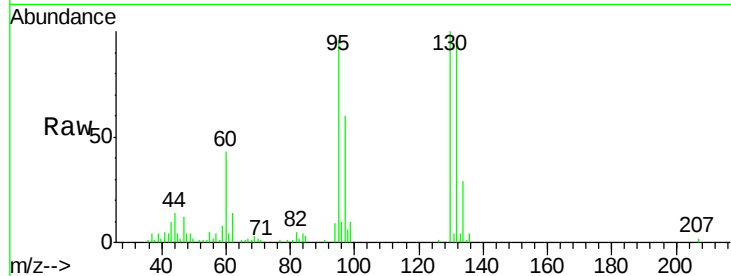




#34
 Trichloroethene
 Concen: 0.67 ug/L
 RT: 5.96 min Scan# 1578
 Delta R.T. -0.00 min
 Lab File: VV006115.D
 Acq: 31 May 2018 19:08

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00162

Tgt Ion:	95	Resp:	19823
Ion	Ratio	Lower	Upper
95	100		
97	62.6	45.1	83.9
132	99.0	69.0	128.1
130	104.0	72.8	135.2

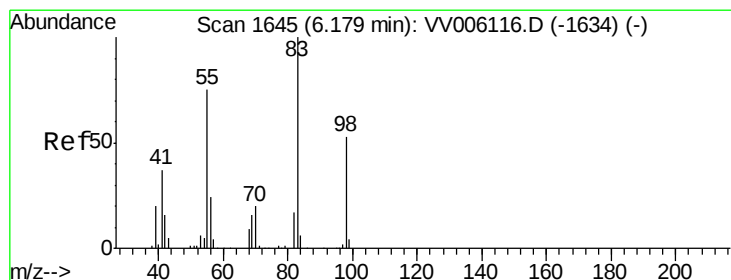
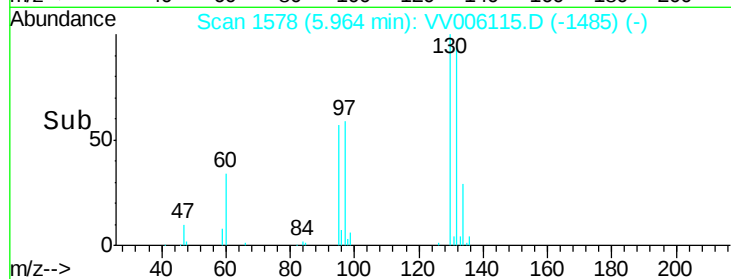
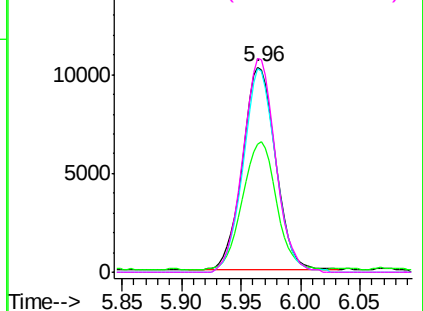


Abundance Ion 95.00 (94.70 to 95.70): VV006115.D (-1563) (-)

Ion 96.95 (96.65 to 97.65): VV006115.D (-1563) (-)

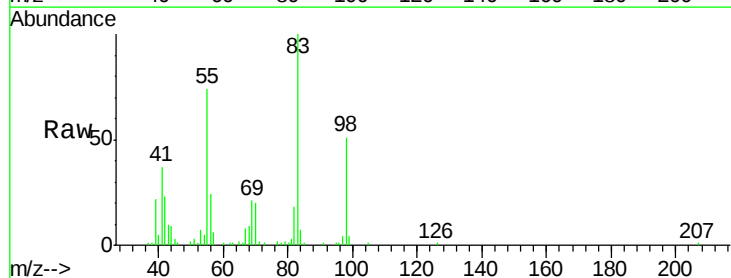
Ion 131.95 (131.65 to 132.65): VV006115.D (-1563) (-)

Ion 129.95 (129.65 to 130.65): VV006115.D (-1563) (-)



#35
 Methylcyclohexane
 Concen: 0.78 ug/L
 RT: 6.18 min Scan# 1645
 Delta R.T. -0.00 min
 Lab File: VV006115.D
 Acq: 31 May 2018 19:08

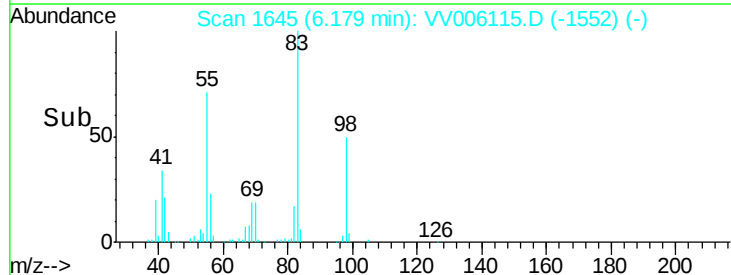
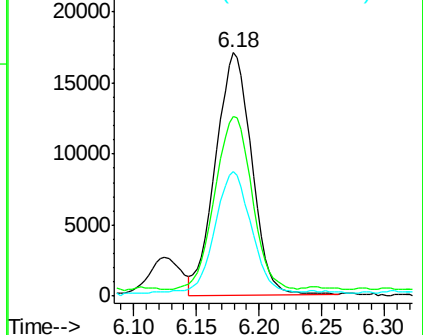
Tgt Ion:	83	Resp:	33993
Ion	Ratio	Lower	Upper
83	100		
55	73.2	57.5	86.3
98	50.4	39.8	59.8

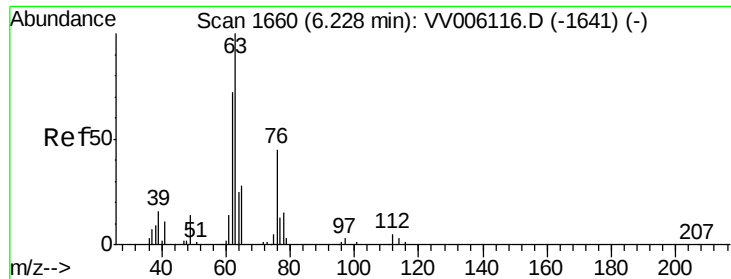


Abundance Ion 83.15 (82.85 to 83.85): VV006115.D (-1552) (-)

Ion 55.10 (54.80 to 55.80): VV006115.D (-1552) (-)

Ion 98.15 (97.85 to 98.85): VV006115.D (-1552) (-)





#37

1,2-Dichloropropane

Concen: 0.62 ug/L

RT: 6.23 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VV006115.D

Acq: 31 May 2018 19:08

Instrument :

MSVOA_V

ClientSampleId :

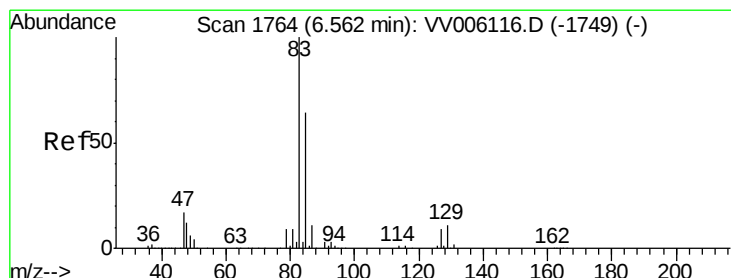
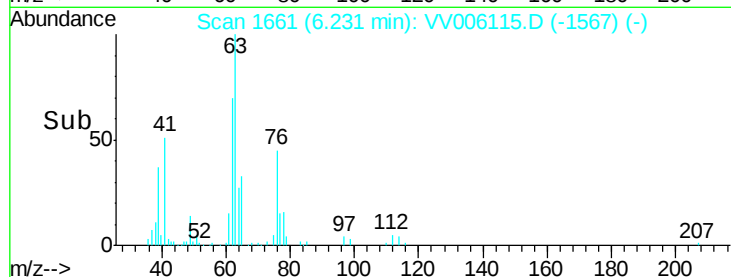
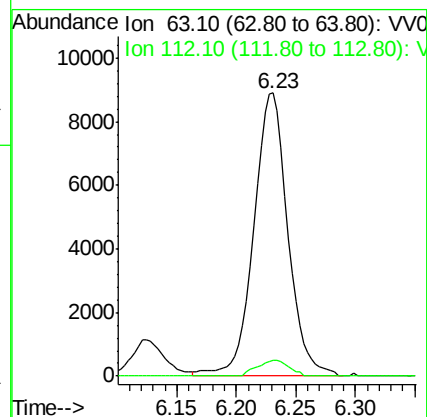
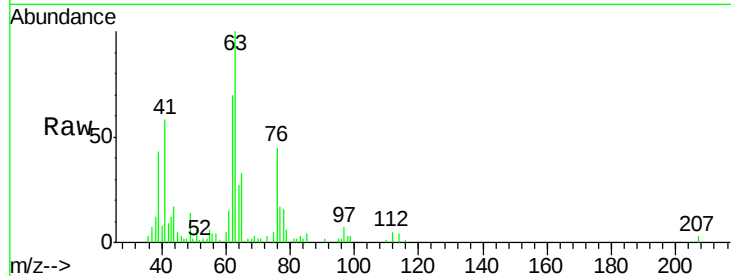
VSTD00162

Tgt Ion: 63 Resp: 17691

Ion Ratio Lower Upper

63 100

112 5.2 4.1 6.1



#38

Bromodichloromethane

Concen: 0.71 ug/L

RT: 6.56 min Scan# 1764

Delta R.T. -0.00 min

Lab File: VV006115.D

Acq: 31 May 2018 19:08

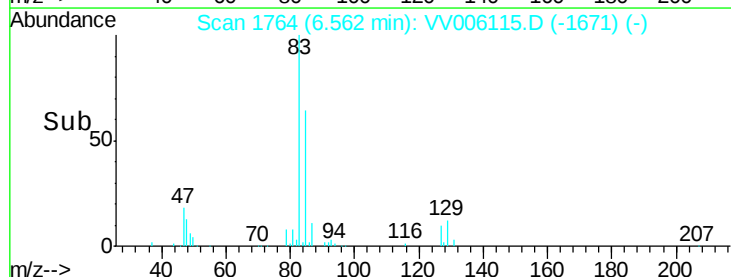
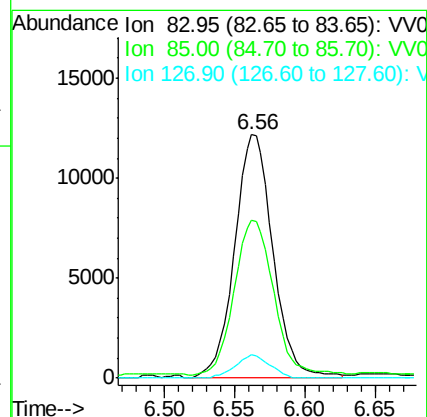
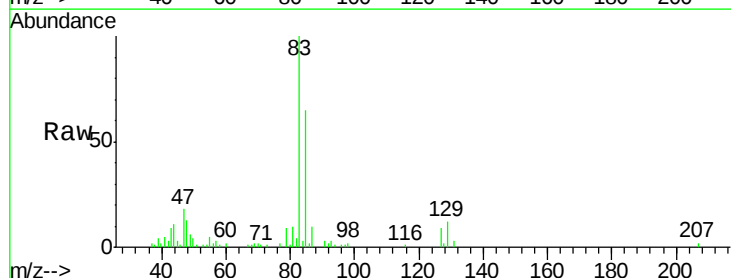
Tgt Ion: 83 Resp: 23194

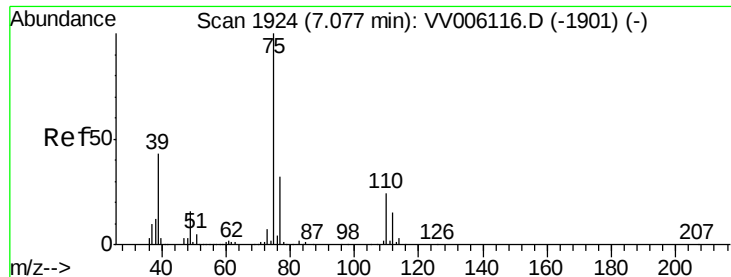
Ion Ratio Lower Upper

83 100

85 64.9 44.9 83.5

127 9.4 7.0 10.4





#39

cis-1,3-Dichloropropene

Concen: 0.75 ug/L

RT: 7.08 min Scan# 1925

Delta R.T. 0.00 min

Lab File: VV006115.D

Acq: 31 May 2018 19:08

Instrument :

MSVOA_V

ClientSampleId :

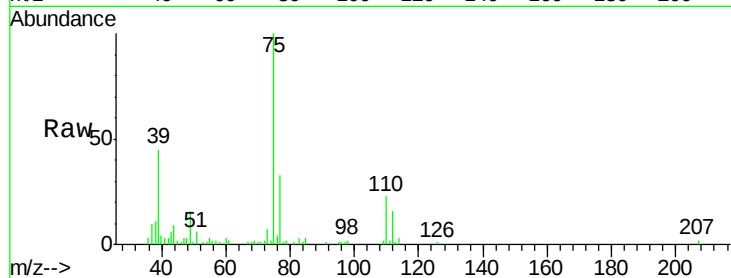
VSTD00162

Tgt Ion: 75 Resp: 28148

Ion Ratio Lower Upper

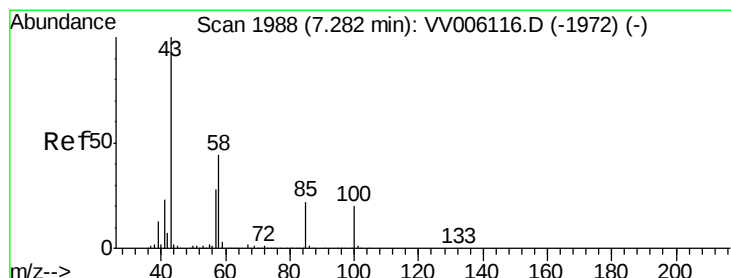
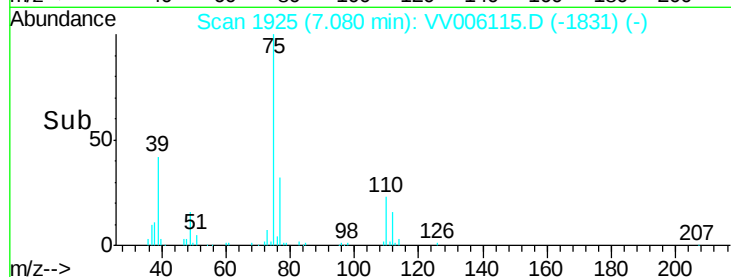
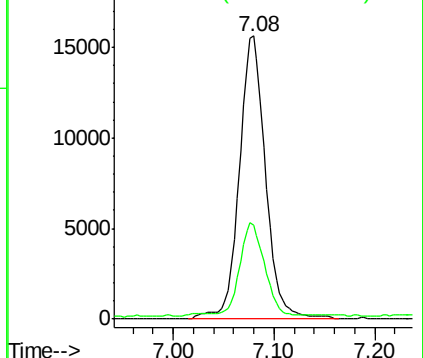
75 100

77 33.2 22.5 41.7



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0



#40

4-Methyl-2-pentanone

Concen: 5.85 ug/L

RT: 7.29 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VV006115.D

Acq: 31 May 2018 19:08

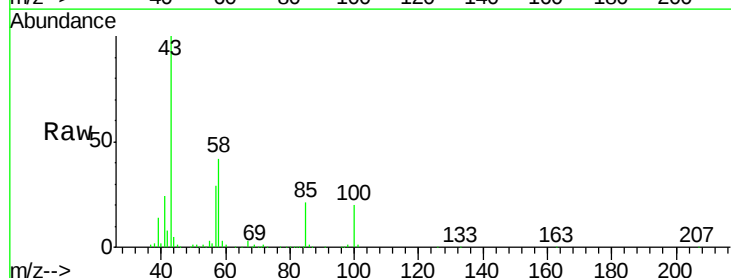
Tgt Ion: 43 Resp: 89119

Ion Ratio Lower Upper

43 100

58 44.7 36.0 54.0

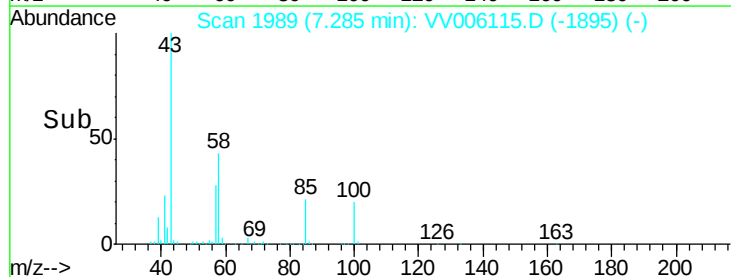
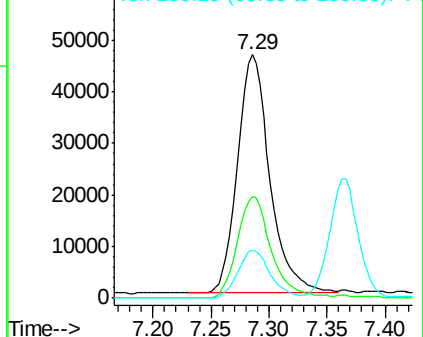
100 20.2 15.4 23.2

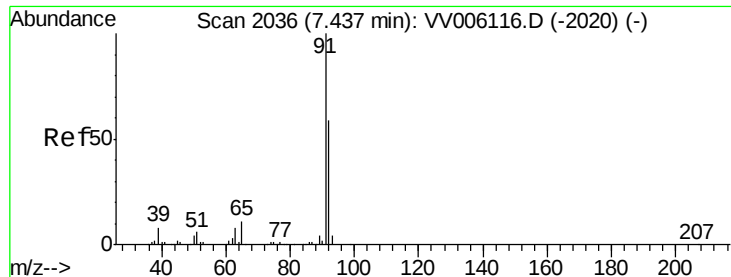


Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 100.15 (99.85 to 100.85): VV0





#42

Toluene

Concen: 0.71 ug/L

RT: 7.44 min Scan# 2036

Delta R.T. -0.00 min

Lab File: VV006115.D

Acq: 31 May 2018 19:08

Instrument :

MSVOA_V

ClientSampleId :

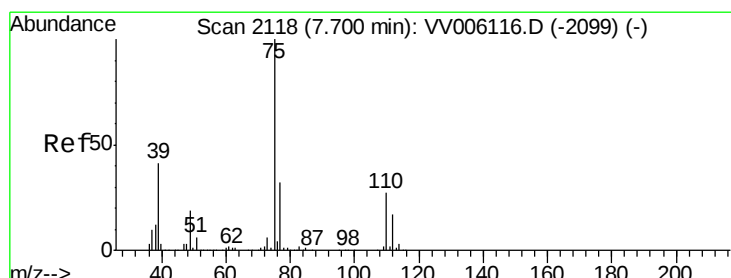
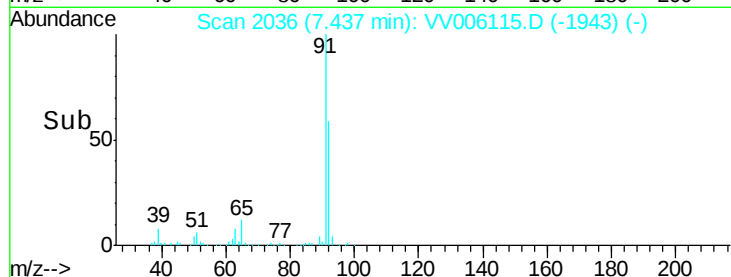
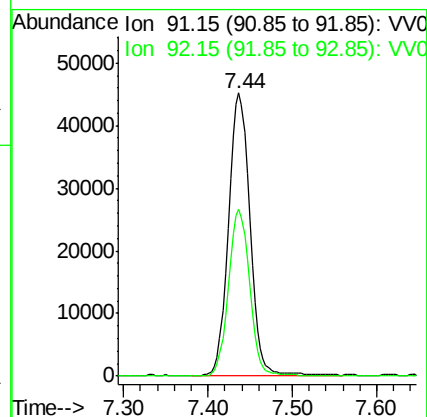
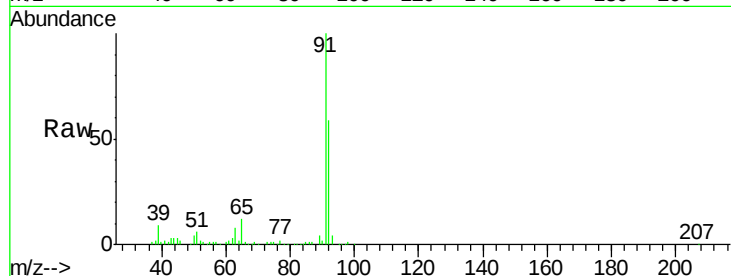
VSTD00162

Tgt Ion: 91 Resp: 80702

Ion Ratio Lower Upper

91 100

92 58.8 41.1 76.3



#44

trans-1,3-Dichloropropene

Concen: 0.74 ug/L

RT: 7.70 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VV006115.D

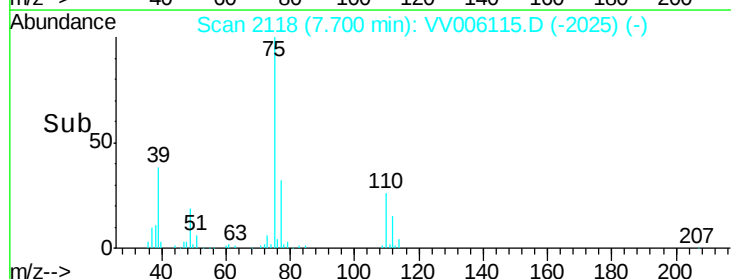
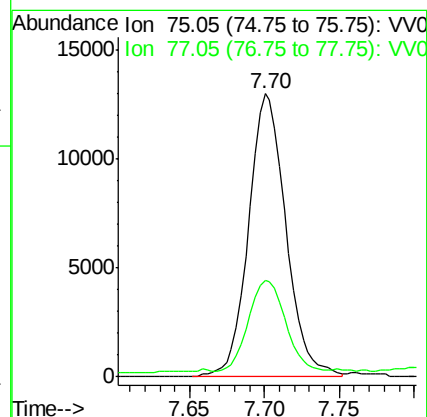
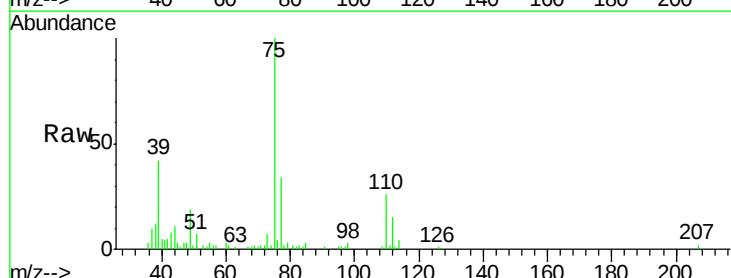
Acq: 31 May 2018 19:08

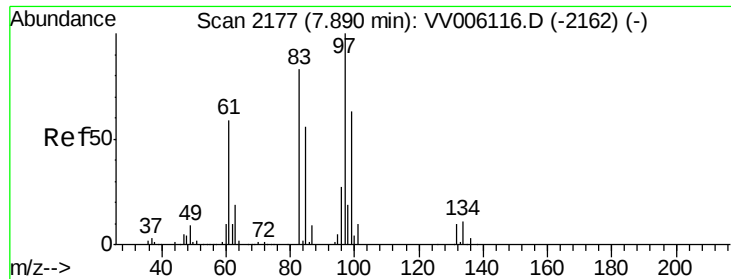
Tgt Ion: 75 Resp: 22666

Ion Ratio Lower Upper

75 100

77 34.1 23.0 42.6

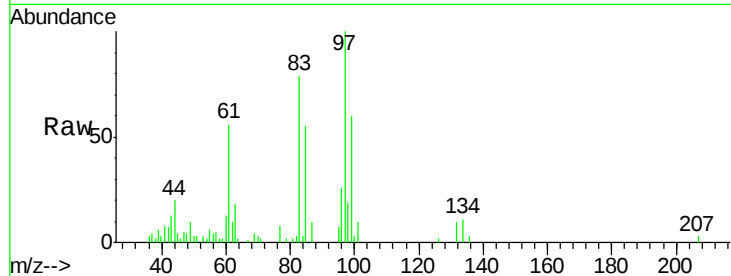




#45
 1,1,2-Trichloroethane
 Concen: 0.68 ug/L
 RT: 7.89 min Scan# 2177
 Delta R.T. -0.00 min
 Lab File: VV006115.D
 Acq: 31 May 2018 19:08

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00162

Tgt Ion:	97	Resp:	12535
Ion	Ratio	Lower	Upper
97	100		
99	59.8	43.8	81.3
83	78.8	58.2	108.2
85	54.5	39.3	73.1

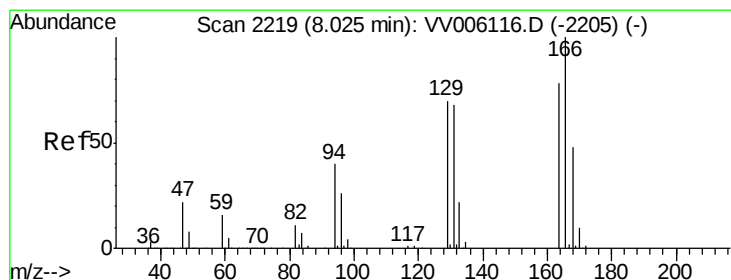
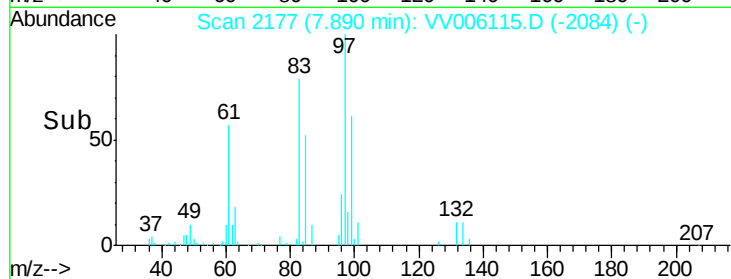
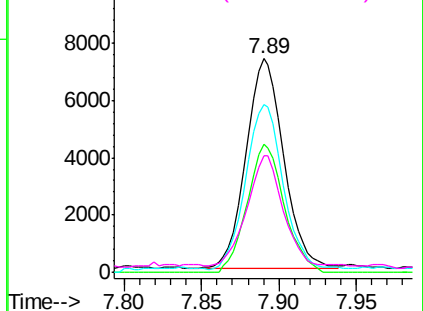


Abundance Ion 96.95 (96.65 to 97.65): VV006115.D (-2162) (-)

Ion 99.05 (98.75 to 99.75): VV006115.D (-2162) (-)

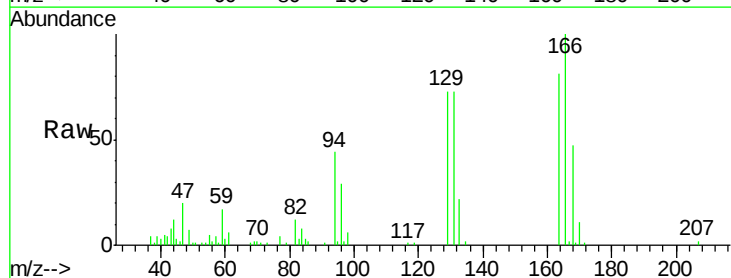
Ion 82.95 (82.65 to 83.65): VV006115.D (-2162) (-)

Ion 85.00 (84.70 to 85.70): VV006115.D (-2162) (-)



#47
 Tetrachloroethene
 Concen: 0.66 ug/L
 RT: 8.03 min Scan# 2219
 Delta R.T. -0.00 min
 Lab File: VV006115.D
 Acq: 31 May 2018 19:08

Tgt Ion:	164	Resp:	15630
Ion	Ratio	Lower	Upper
164	100		
129	90.3	62.7	116.5
131	89.8	61.0	113.2
166	123.6	89.5	166.3

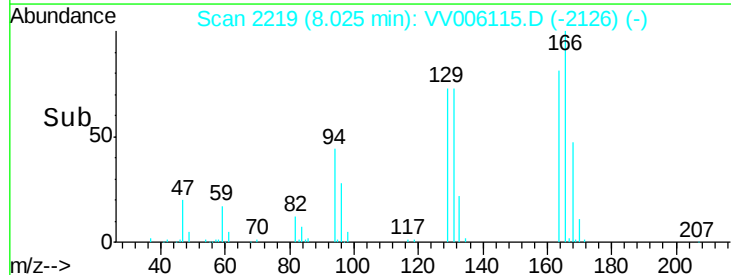
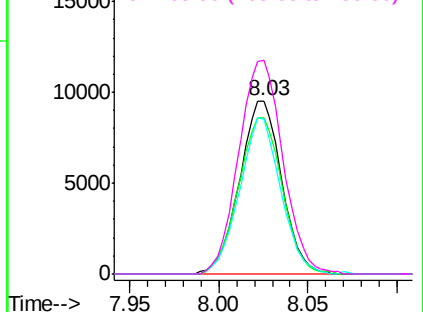


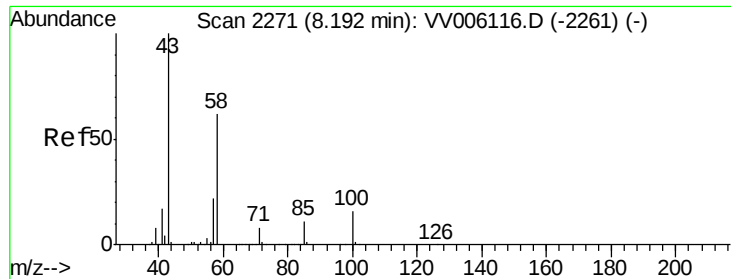
Abundance Ion 163.90 (163.60 to 164.60): VV006115.D (-2205) (-)

Ion 128.95 (128.65 to 129.65): VV006115.D (-2205) (-)

Ion 130.95 (130.65 to 131.65): VV006115.D (-2205) (-)

Ion 165.90 (165.60 to 166.60): VV006115.D (-2205) (-)

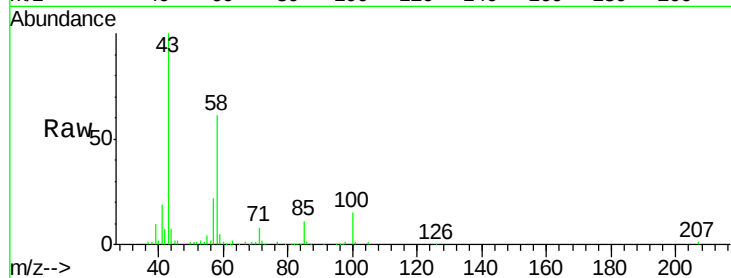




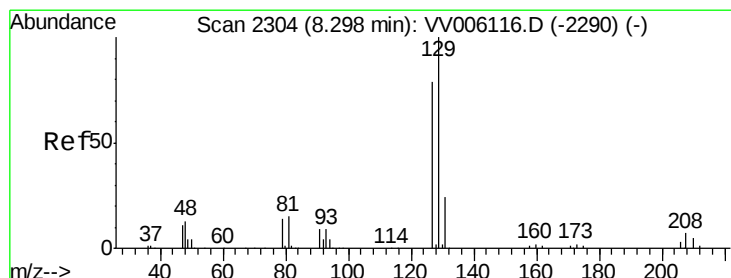
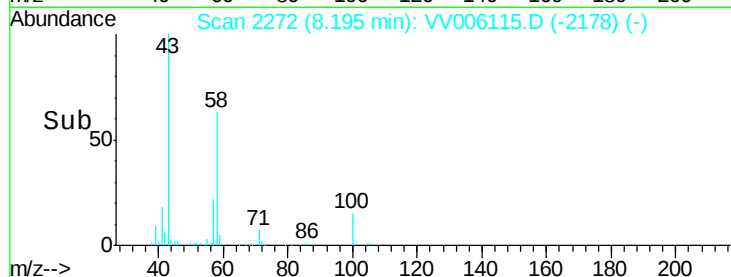
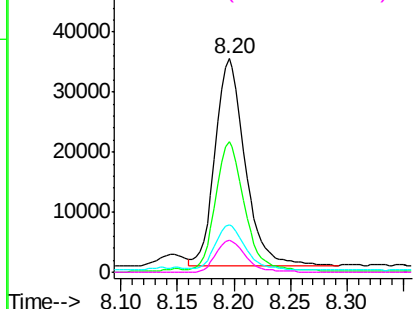
#48
2-Hexanone
Concen: 5.90 ug/L
RT: 8.20 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VV006115.D
Acq: 31 May 2018 19:08

Instrument :
MSVOA_V
ClientSampleId :
VSTD00162

Tgt Ion: 43 Resp: 63849
Ion Ratio Lower Upper
43 100
58 61.3 48.6 72.8
57 21.0 17.5 26.3
100 15.5 12.6 18.8

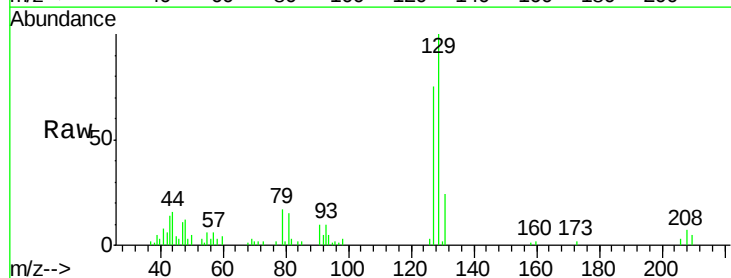


Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0

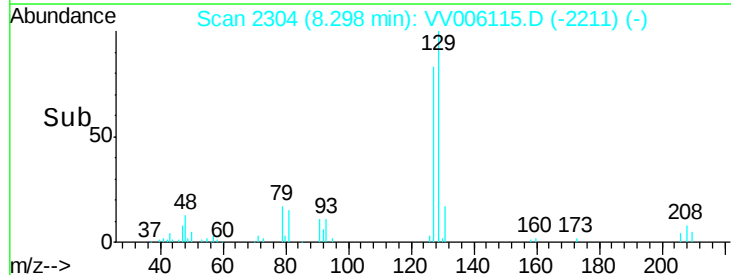
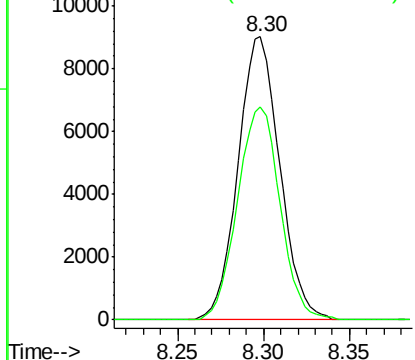


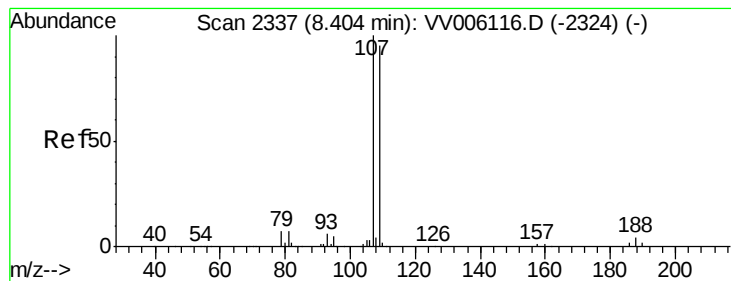
#49
Dibromochloromethane
Concen: 0.71 ug/L
RT: 8.30 min Scan# 2304
Delta R.T. -0.00 min
Lab File: VV006115.D
Acq: 31 May 2018 19:08

Tgt Ion: 129 Resp: 15200
Ion Ratio Lower Upper
129 100
127 75.2 55.2 102.4



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





#50

1,2-Dibromoethane

Concen: 0.67 ug/L

RT: 8.40 min Scan# 2337

Delta R.T. -0.00 min

Lab File: VV006115.D

Acq: 31 May 2018 19:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD00162

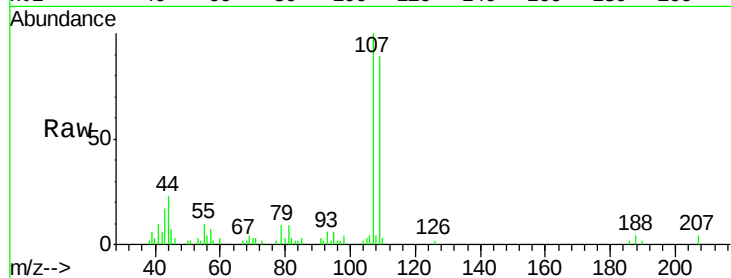
Tgt Ion:107 Resp: 11393

Ion Ratio Lower Upper

107 100

109 88.7 66.8 124.2

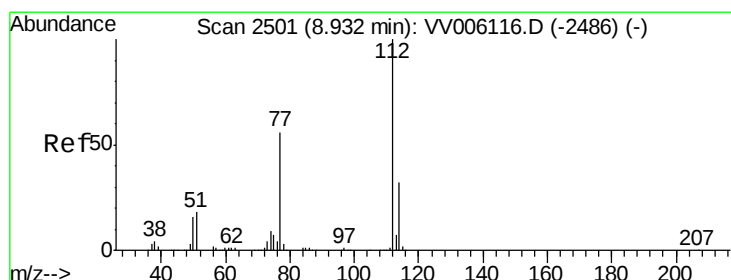
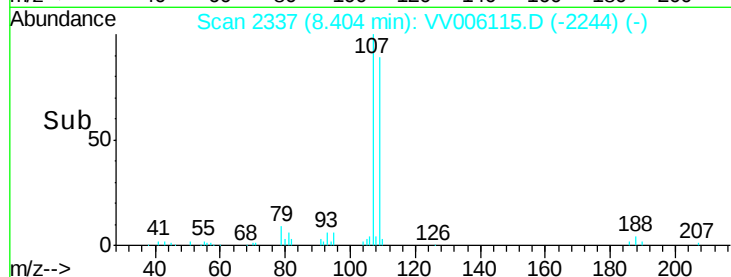
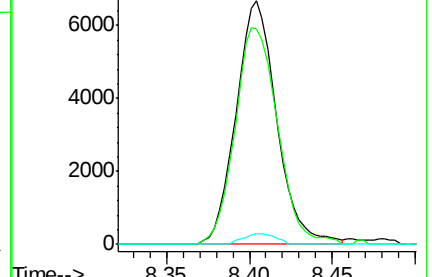
188 4.5 3.4 5.0



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: 0.68 ug/L

RT: 8.93 min Scan# 2501

Delta R.T. -0.00 min

Lab File: VV006115.D

Acq: 31 May 2018 19:08

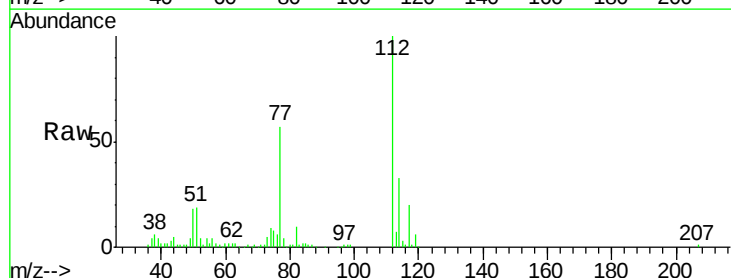
Tgt Ion:112 Resp: 50058

Ion Ratio Lower Upper

112 100

114 32.9 22.2 41.2

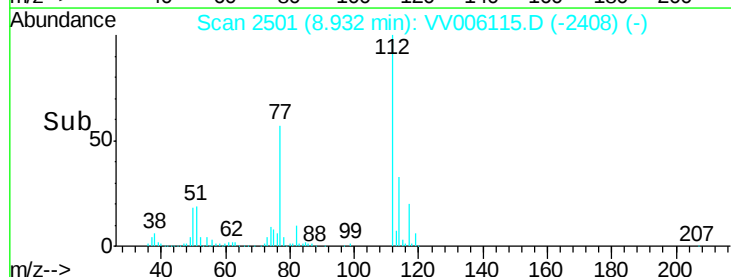
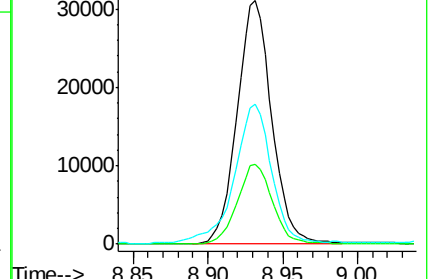
77 57.3 45.2 67.8

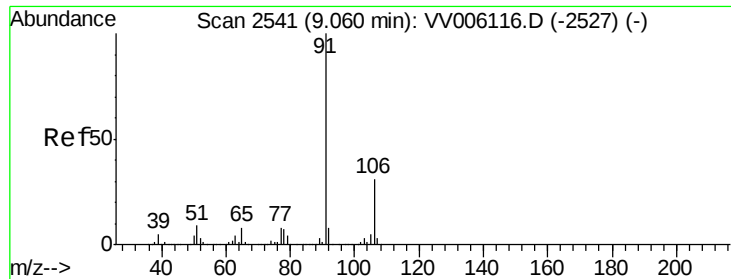


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VV0





#52

Ethylbenzene

Concen: 0.73 ug/L

RT: 9.06 min Scan# 2541

Delta R.T. -0.00 min

Lab File: VV006115.D

Acq: 31 May 2018 19:08

Instrument :

MSVOA_V

ClientSampleId :

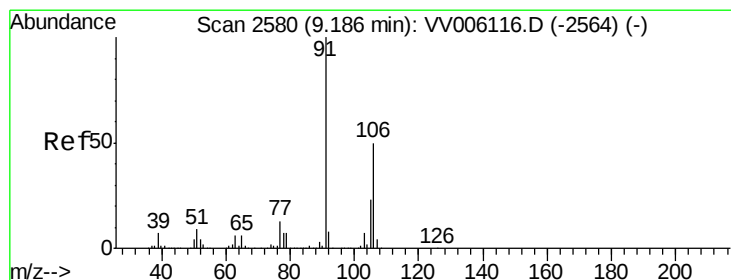
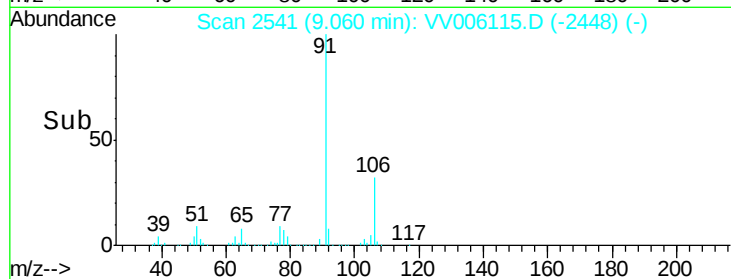
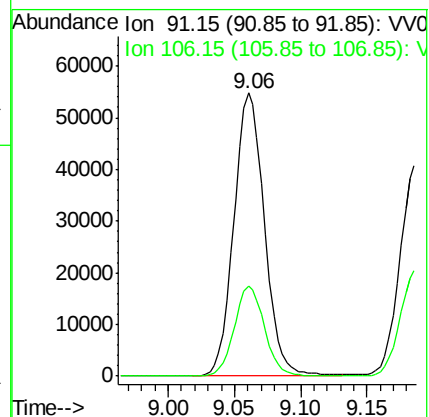
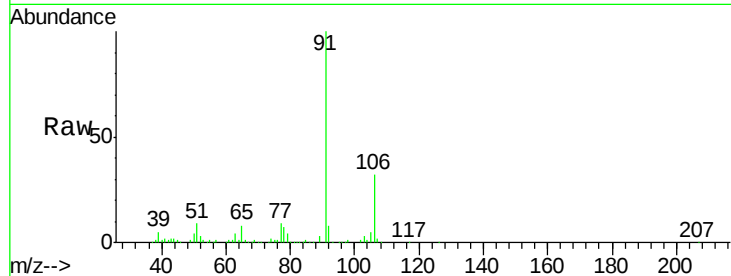
VSTD00162

Tgt Ion: 91 Resp: 87884

Ion Ratio Lower Upper

91 100

106 31.7 21.9 40.7



#53

m,p-xylene

Concen: 0.76 ug/L

RT: 9.19 min Scan# 2580

Delta R.T. -0.00 min

Lab File: VV006115.D

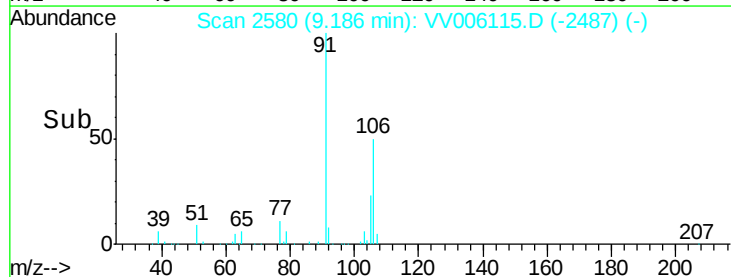
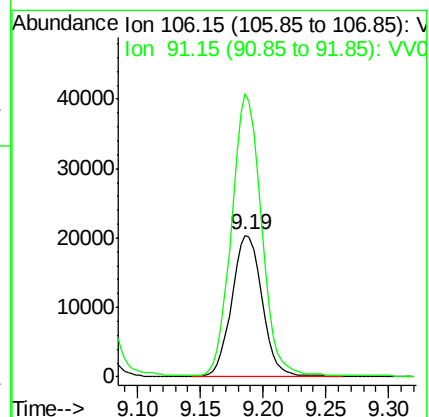
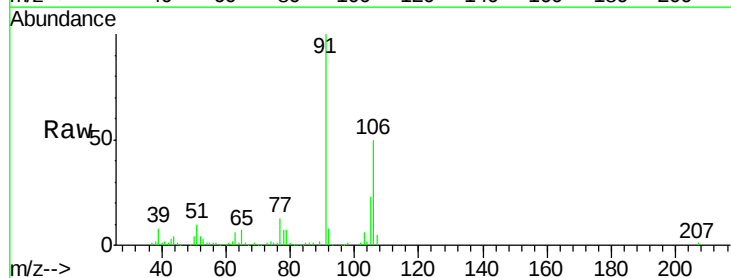
Acq: 31 May 2018 19:08

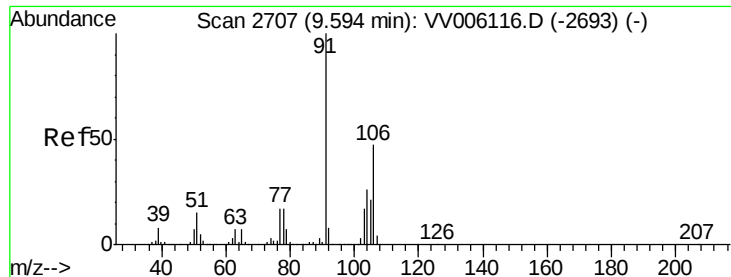
Tgt Ion: 106 Resp: 34470

Ion Ratio Lower Upper

106 100

91 199.9 139.7 259.4





#54

o-xylene

Concen: 0.76 ug/L

RT: 9.59 min Scan# 2706

Delta R.T. -0.00 min

Lab File: VV006115.D

Acq: 31 May 2018 19:08

Instrument :

MSVOA_V

ClientSampleId :

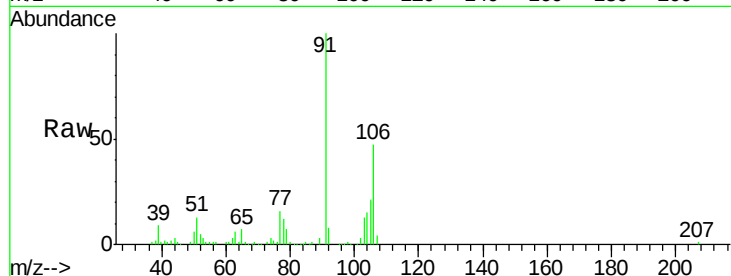
VSTD00162

Tgt Ion:106 Resp: 33702

Ion Ratio Lower Upper

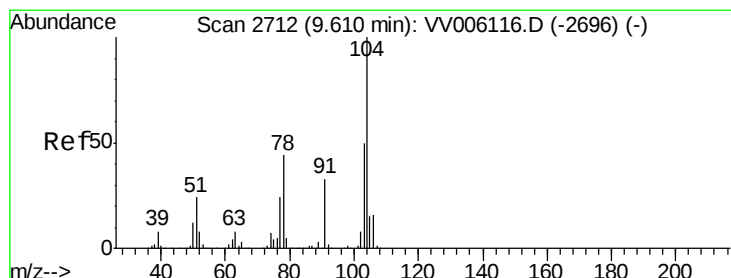
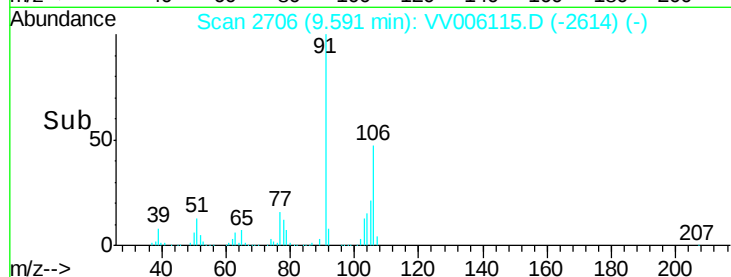
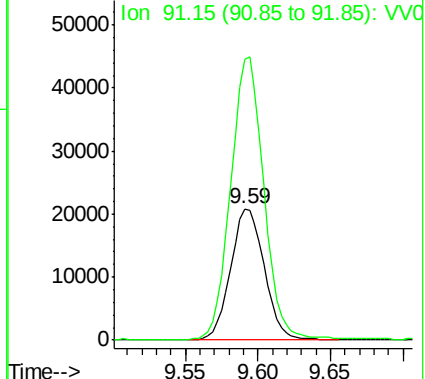
106 100

91 213.8 147.9 274.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 0.73 ug/L

RT: 9.61 min Scan# 2712

Delta R.T. -0.00 min

Lab File: VV006115.D

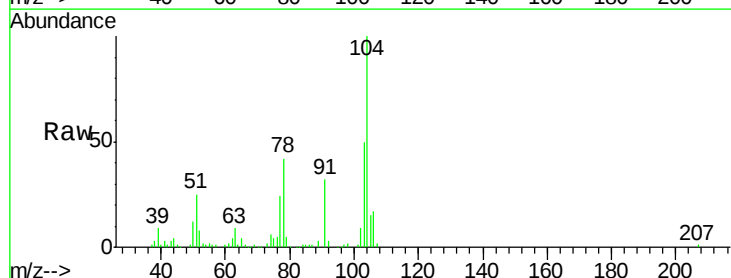
Acq: 31 May 2018 19:08

Tgt Ion:104 Resp: 54000

Ion Ratio Lower Upper

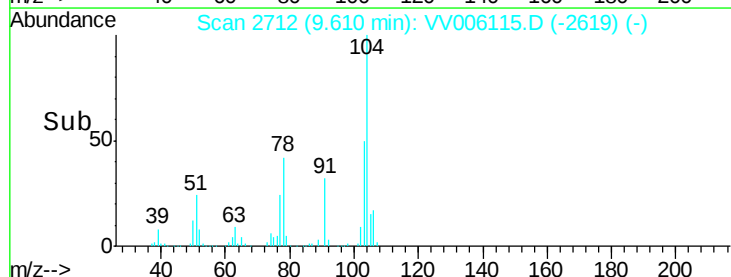
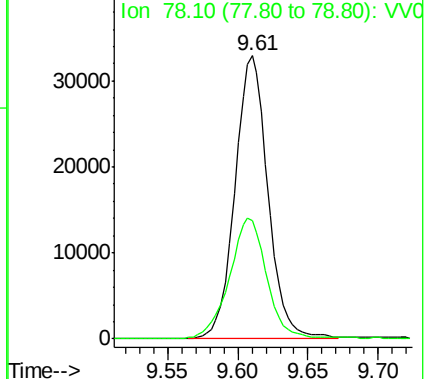
104 100

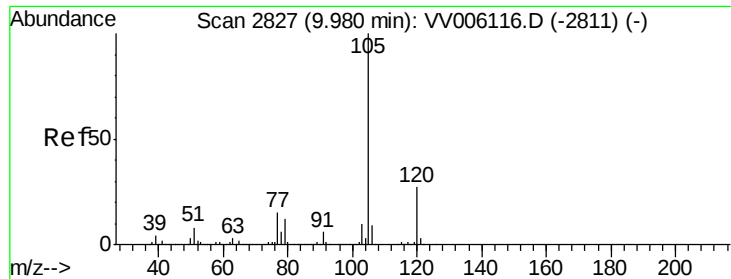
78 41.8 30.6 56.8



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0

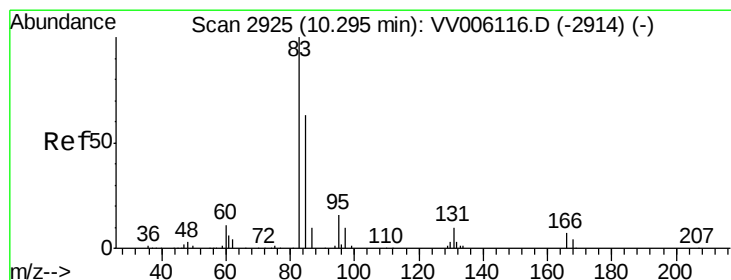
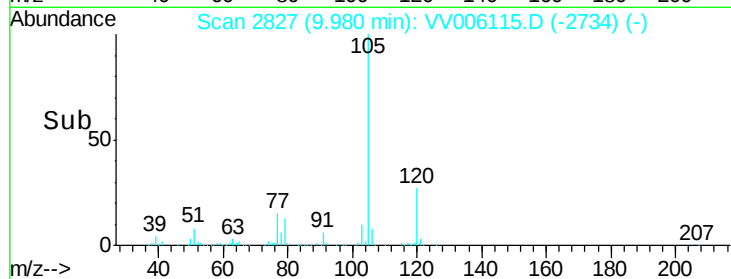
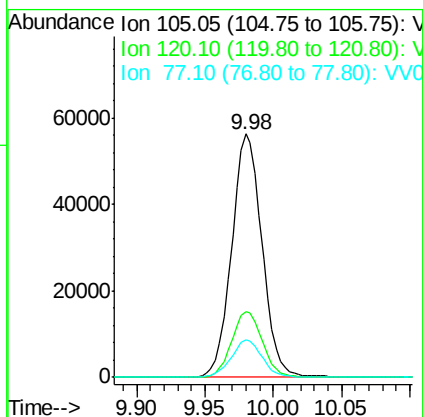
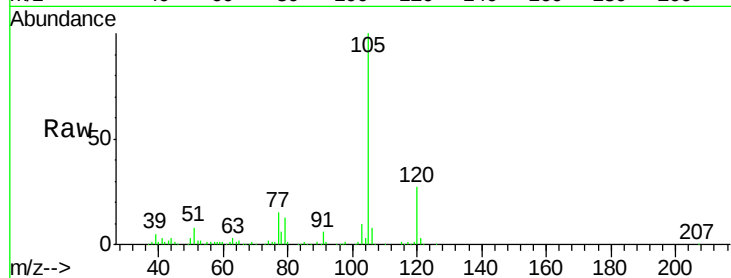




#56
Isopropylbenzene
Concen: 0.75 ug/L
RT: 9.98 min Scan# 2827
Delta R.T. -0.00 min
Lab File: VV006115.D
Acq: 31 May 2018 19:08

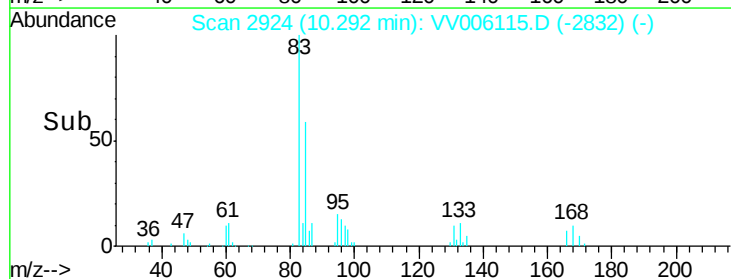
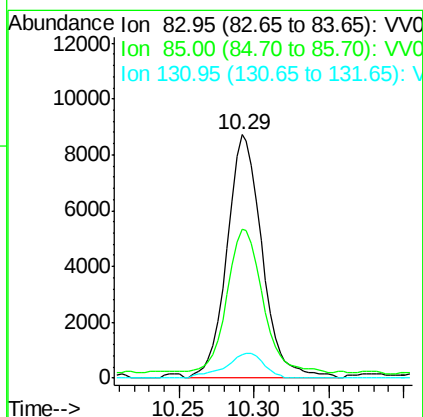
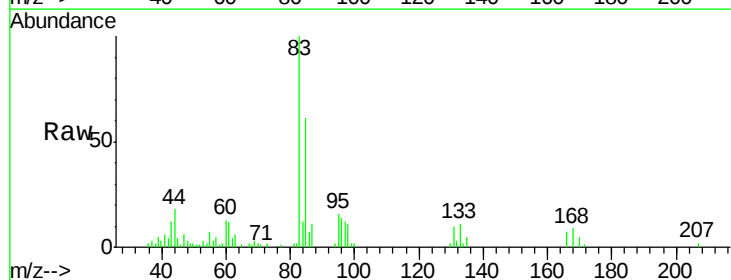
Instrument :
MSVOA_V
ClientSampleId :
VSTD00162

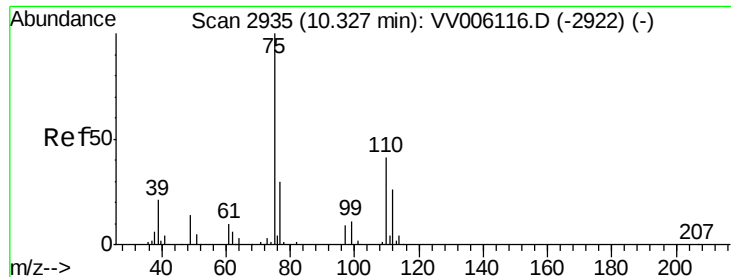
Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.3	21.4	32.2
77	16.0	11.9	17.9



#58
1,1,2,2-Tetrachloroethane
Concen: 0.67 ug/L
RT: 10.29 min Scan# 2924
Delta R.T. -0.00 min
Lab File: VV006115.D
Acq: 31 May 2018 19:08

Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.9	45.0	83.6
131	9.8	8.3	12.5





#59

1,2,3-Trichloropropane

Concen: 0.62 ug/L

RT: 10.33 min Scan# 2935

Delta R.T. -0.00 min

Lab File: VV006115.D

Acq: 31 May 2018 19:08

Instrument :

MSVOA_V

ClientSampleId :

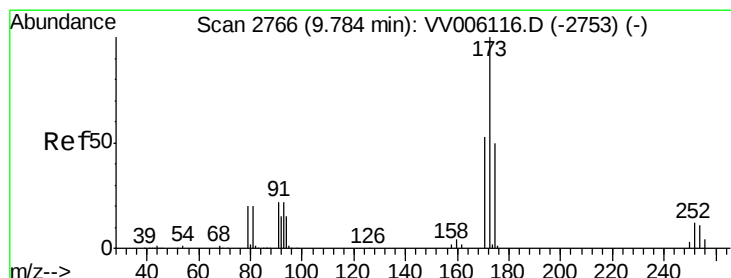
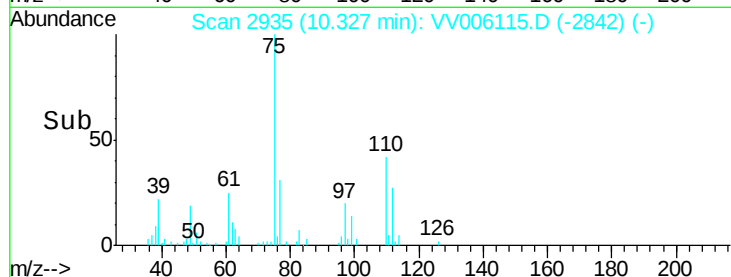
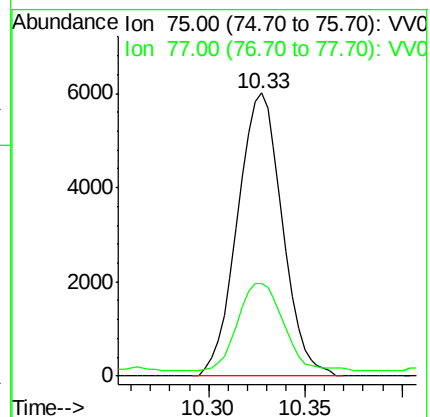
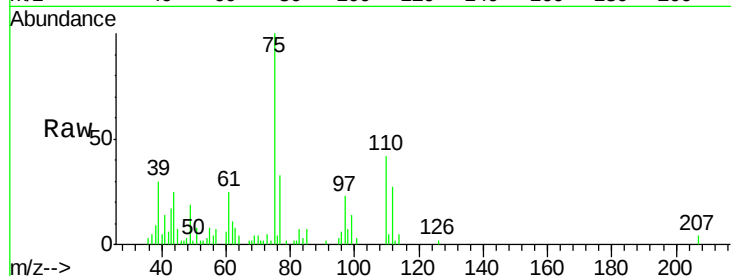
VSTD00162

Tgt Ion: 75 Resp: 9668

Ion Ratio Lower Upper

75 100

77 31.1 25.7 38.5



#61

Bromoform

Concen: 0.72 ug/L

RT: 9.78 min Scan# 2766

Delta R.T. -0.00 min

Lab File: VV006115.D

Acq: 31 May 2018 19:08

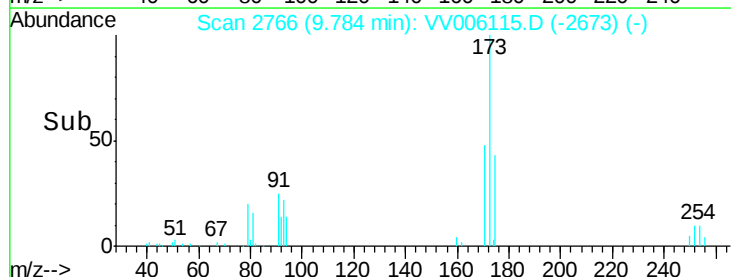
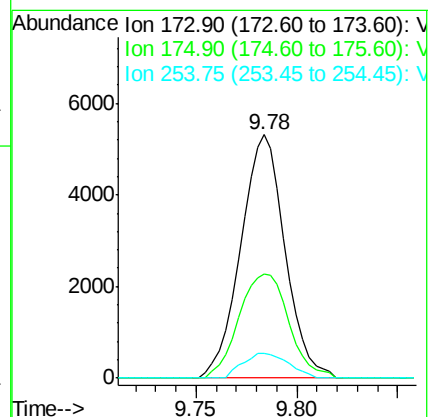
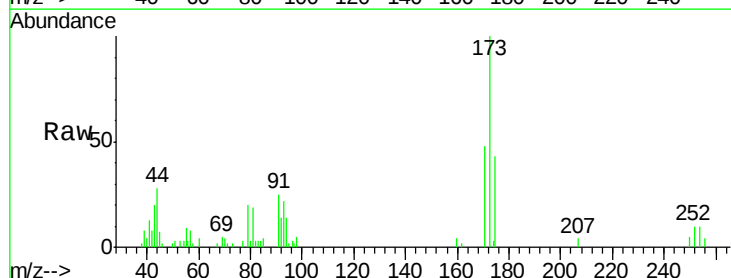
Tgt Ion: 173 Resp: 8154

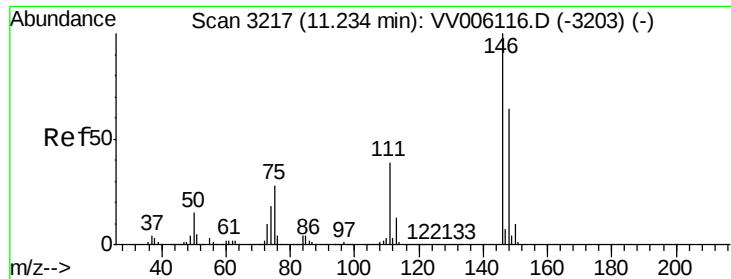
Ion Ratio Lower Upper

173 100

175 48.3 39.3 58.9

254 10.5 9.1 13.7





#62

1,3-Dichlorobenzene

Concen: 0.73 ug/L

RT: 11.23 min Scan# 3217

Delta R.T. -0.00 min

Lab File: VV006115.D

Acq: 31 May 2018 19:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD00162

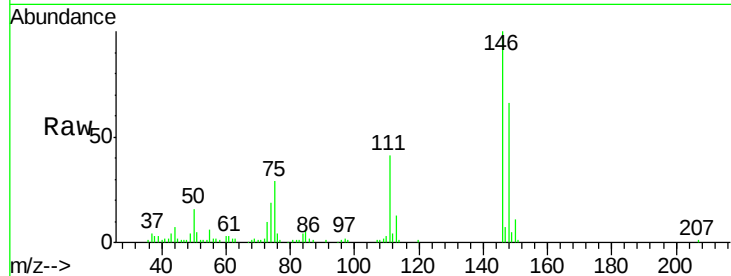
Tgt Ion:146 Resp: 37993

Ion Ratio Lower Upper

146 100

111 40.9 27.6 51.2

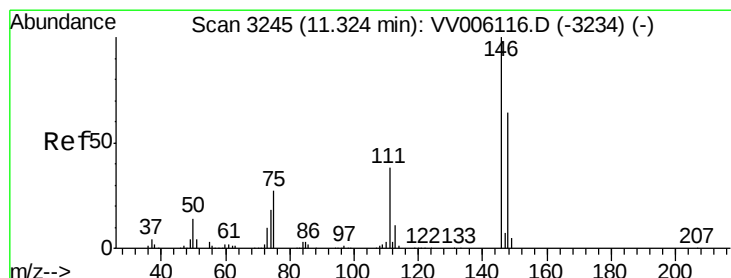
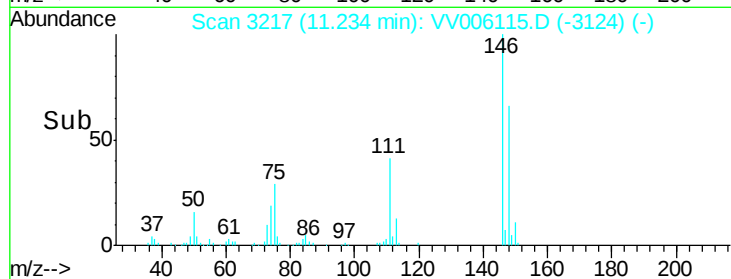
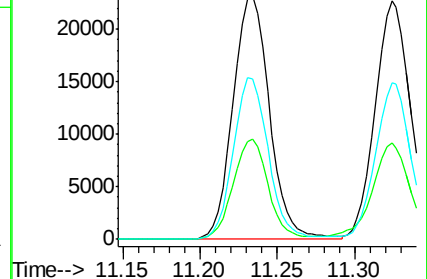
148 65.8 45.1 83.7



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 0.70 ug/L

RT: 11.32 min Scan# 3245

Delta R.T. -0.00 min

Lab File: VV006115.D

Acq: 31 May 2018 19:08

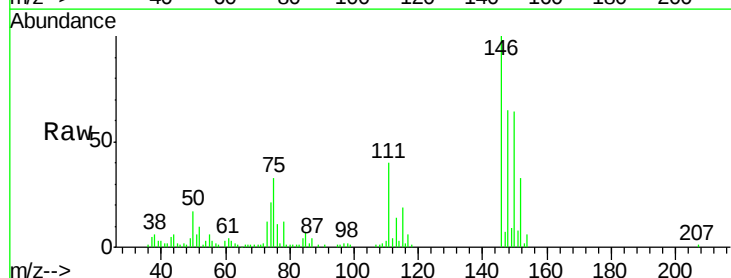
Tgt Ion:146 Resp: 37111

Ion Ratio Lower Upper

146 100

111 40.5 26.9 50.1

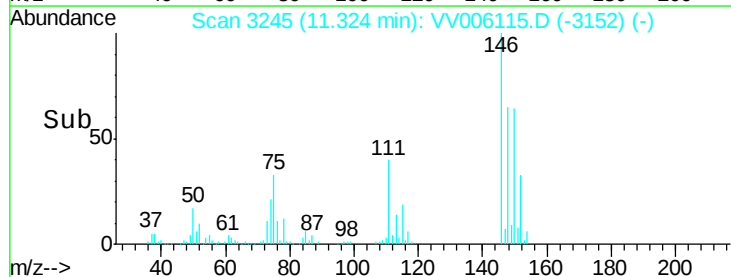
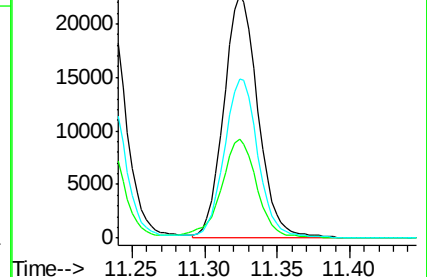
148 65.3 44.8 83.2

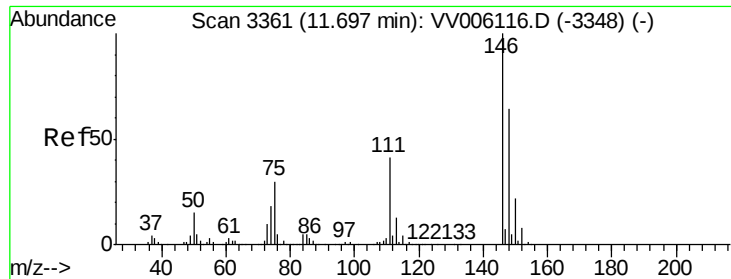


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

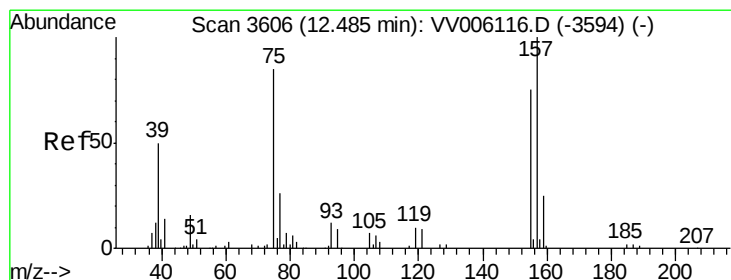
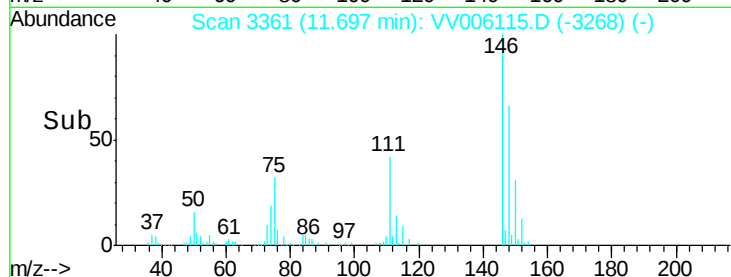
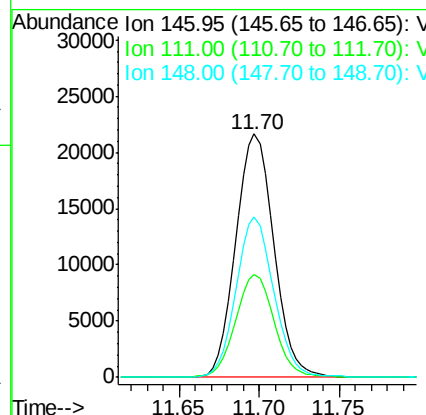
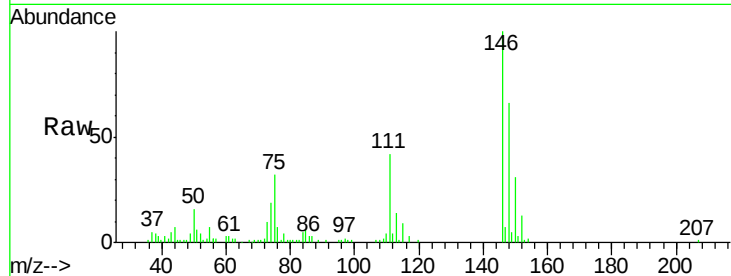




#65
 1,2-Dichlorobenzene
 Concen: 0.69 ug/L
 RT: 11.70 min Scan# 3361
 Delta R.T. -0.00 min
 Lab File: VV006115.D
 Acq: 31 May 2018 19:08

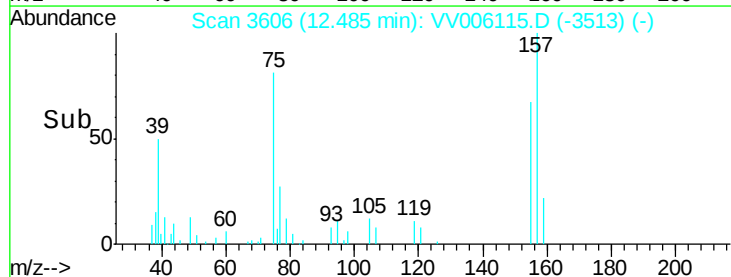
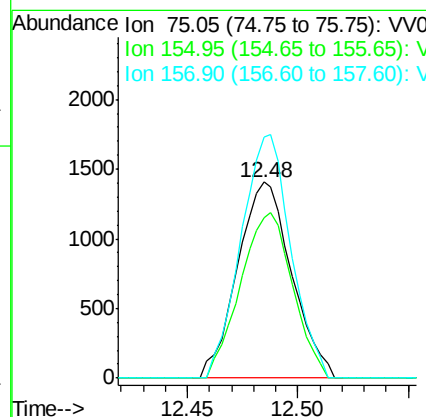
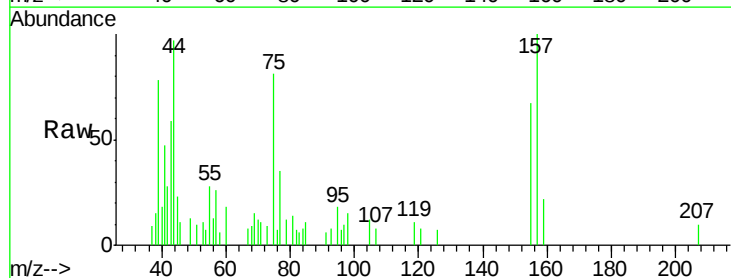
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00162

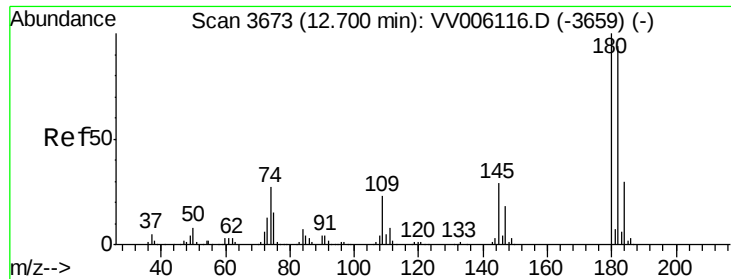
Tgt Ion: 146 Resp: 35041
 Ion Ratio Lower Upper
 146 100
 111 42.4 32.8 49.2
 148 65.9 51.4 77.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.82 ug/L
 RT: 12.48 min Scan# 3606
 Delta R.T. -0.00 min
 Lab File: VV006115.D
 Acq: 31 May 2018 19:08

Tgt Ion: 75 Resp: 2397
 Ion Ratio Lower Upper
 75 100
 155 82.1 70.3 105.5
 157 123.0 93.8 140.6

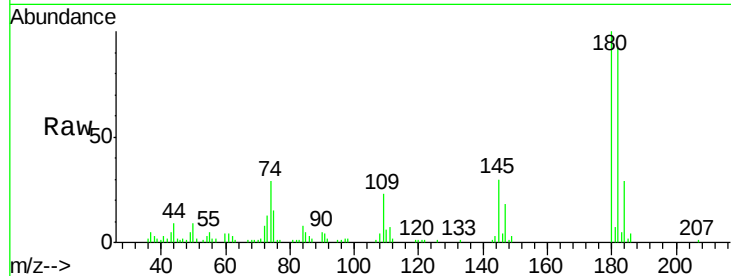




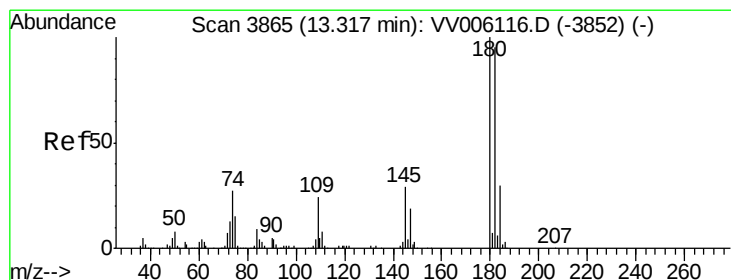
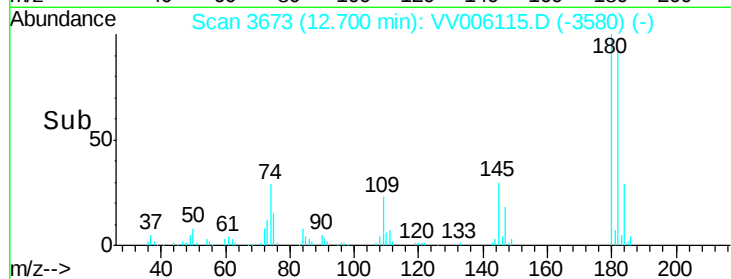
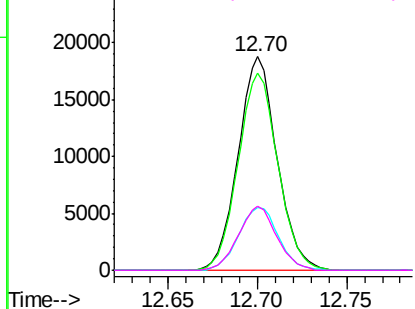
#67
 1,3,5-Trichlorobenzene
 Concen: 0.69 ug/L
 RT: 12.70 min Scan# 3673
 Delta R.T. -0.00 min
 Lab File: VV006115.D
 Acq: 31 May 2018 19:08

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00162

Tgt Ion:180 Resp: 28572
 Ion Ratio Lower Upper
 180 100
 182 94.2 75.4 113.2
 184 30.2 24.3 36.5
 145 29.5 23.1 34.7

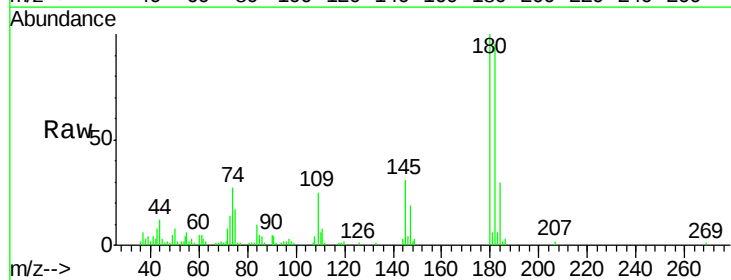


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

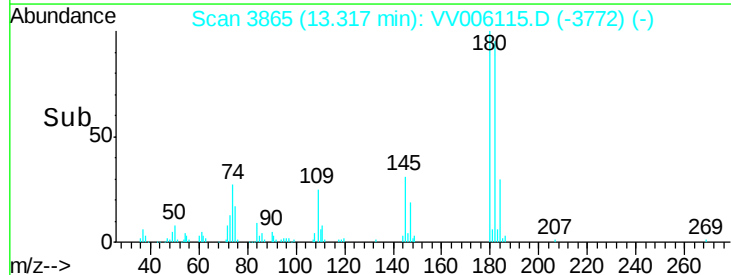
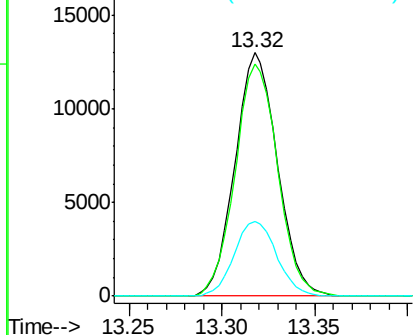


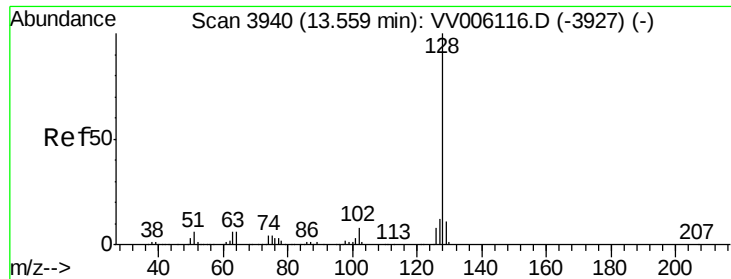
#68
 1,2,4-trichlorobenzene
 Concen: 0.64 ug/L
 RT: 13.32 min Scan# 3865
 Delta R.T. -0.00 min
 Lab File: VV006115.D
 Acq: 31 May 2018 19:08

Tgt Ion:180 Resp: 20567
 Ion Ratio Lower Upper
 180 100
 182 95.7 76.7 115.1
 145 30.9 23.7 35.5



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: 0.71 ug/L

RT: 13.56 min Scan# 3941

Delta R.T. 0.00 min

Lab File: VV006115.D

Acq: 31 May 2018 19:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD00162

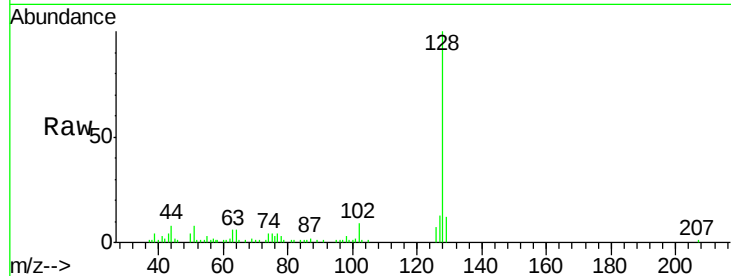
Tgt Ion:128 Resp: 33846

Ion Ratio Lower Upper

128 100

129 11.0 8.7 13.1

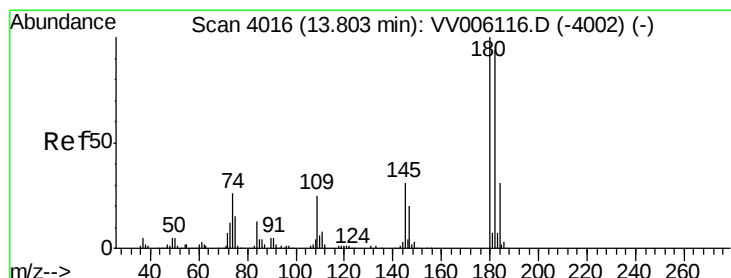
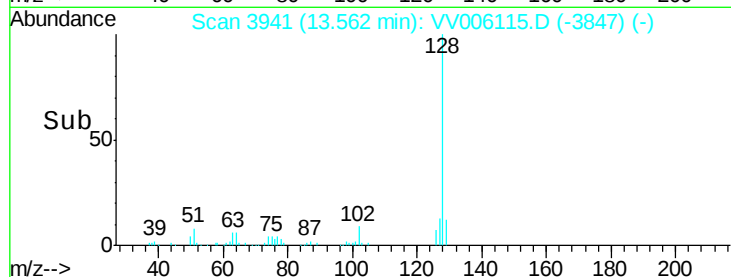
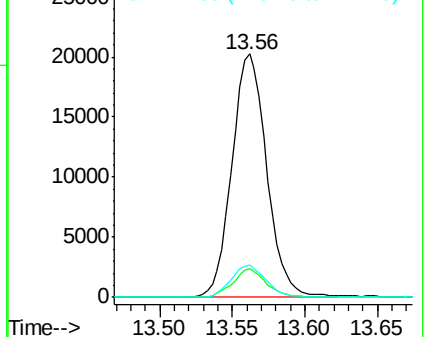
127 13.2 10.1 15.1



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: 0.65 ug/L

RT: 13.80 min Scan# 4016

Delta R.T. -0.00 min

Lab File: VV006115.D

Acq: 31 May 2018 19:08

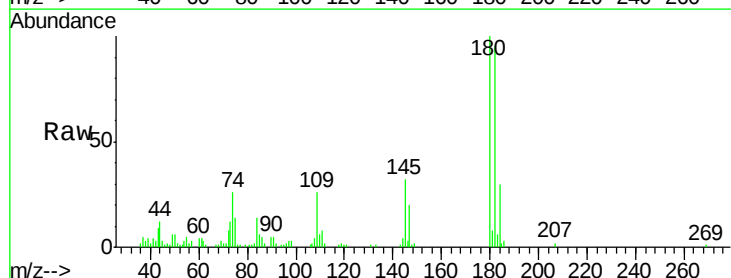
Tgt Ion:180 Resp: 19409

Ion Ratio Lower Upper

180 100

182 95.4 76.2 114.2

145 32.5 25.0 37.4



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

