

Data File : VV014062.D
Acq On : 16 Dec 2019 10:25
Operator : SY/MD
Sample : VSTDCCC005
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BFB42

Quant Time: Dec 17 05:36:20 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR112219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Dec 17 04:55:04 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	420461	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	389429	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	211476	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	166732	6.41	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	128.20%
7) Chloroethane-d5	1.58	69	135231	6.12	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	122.40%
11) 1,1-Dichloroethene-d2	2.13	63	258875	5.91	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	118.20%
20) 2-Butanone-d5	3.94	46	226821	41.93	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	83.86%
24) Chloroform-d	4.39	84	259513	4.95	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.00%
26) 1,2-Dichloroethane-d4	5.08	65	119677	4.79	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.80%
32) Benzene-d6	5.09	84	533166	5.31	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	106.20%
36) 1,2-Dichloropropane-d6	6.11	67	155189	5.18	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	103.60%
41) Toluene-d8	7.35	98	491725	5.22	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.40%
43) trans-1,3-Dichloropropene-	7.66	79	57672	4.95	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	99.00%
46) 2-Hexanone-d5	8.13	63	182179	42.38	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	84.76%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	96283	4.64	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	92.80%
64) 1,2-Dichlorobenzene-d4	11.67	152	180745	4.84	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.80%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	132623	4.736	ug/L	98
3) Chloromethane	1.25	50	129266	5.256	ug/L	98
5) Vinyl chloride	1.32	62	134161	5.341	ug/L	98
6) Bromomethane	1.53	94	78506	5.935	ug/L	99
8) Chloroethane	1.60	64	81858	5.408	ug/L	100
9) Trichlorofluoromethane	1.77	101	200010	5.128	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	124140	5.356	ug/L	99
12) 1,1-Dichloroethene	2.14	96	104763	5.182	ug/L	94
13) Acetone	2.21	43	165192	43.665	ug/L #	61
14) Carbon disulfide	2.32	76	221407	4.744	ug/L	99
15) Methyl Acetate	2.47	43	37654	4.446	ug/L	98
16) Methylene chloride	2.53	84	144077	5.203	ug/L	95
17) Methyl tert-butyl Ether	2.80	73	260056	4.701	ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	109176	4.783	ug/L	98
19) 1,1-Dichloroethane	3.23	63	228761	5.020	ug/L	99
21) 2-Butanone	4.03	43	244941	42.834	ug/L	96
22) cis-1,2-Dichloroethene	3.96	96	127716	4.771	ug/L	97

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR112219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Dec 17 04:55:04 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	56504	4.804	ug/L	91
25) Chloroform	4.42	83	241660	5.002	ug/L	99
27) 1,2-Dichloroethane	5.17	62	124614	4.507	ug/L	99
29) 1,1,1-Trichloroethane	4.65	97	200945	5.044	ug/L	99
30) Cyclohexane	4.72	56	159759	4.800	ug/L	99
31) Carbon tetrachloride	4.87	117	177061	5.052	ug/L	98
33) Benzene	5.14	78	476878	4.992	ug/L	100
34) Trichloroethene	5.95	95	131395	4.986	ug/L	98
35) Methylcyclohexane	6.17	83	168799	4.801	ug/L	95
37) 1,2-Dichloropropane	6.22	63	125512	5.112	ug/L	99
38) Bromodichloromethane	6.55	83	163772	5.056	ug/L	99
39) cis-1,3-Dichloropropene	7.06	75	168632	4.841	ug/L	98
40) 4-Methyl-2-pentanone	7.27	43	688500	48.062	ug/L	99
42) Toluene	7.42	91	515495	5.031	ug/L	100
44) trans-1,3-Dichloropropene	7.69	75	130456	4.784	ug/L	96
45) 1,1,2-Trichloroethane	7.88	97	85537	4.889	ug/L	96
47) Tetrachloroethene	8.01	164	112506	4.917	ug/L	96
48) 2-Hexanone	8.18	43	493460	48.260	ug/L	99
49) Dibromochloromethane	8.29	129	111061	4.949	ug/L	96
50) 1,2-Dibromoethane	8.39	107	76305	4.816	ug/L	97
51) Chlorobenzene	8.92	112	332830	4.669	ug/L	99
52) Ethylbenzene	9.05	91	532426	4.783	ug/L	98
53) m,p-xylene	9.18	106	209829	4.945	ug/L	94
54) o-xylene	9.58	106	196551	4.745	ug/L	94
55) Styrene	9.60	104	351434	4.913	ug/L	99
56) Isopropylbenzene	9.97	105	552466	4.894	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.28	83	92961	4.835	ug/L	100
59) 1,2,3-Trichloropropane	10.31	75	70991	4.711	ug/L	98
61) Bromoform	9.77	173	65019	4.885	ug/L	98
62) 1,3-Dichlorobenzene	11.22	146	298070	4.852	ug/L	99
63) 1,4-Dichlorobenzene	11.31	146	294324	4.707	ug/L	99
65) 1,2-Dichlorobenzene	11.68	146	276173	4.844	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.47	75	13570	4.095	ug/L	95
67) 1,3,5-Trichlorobenzene	12.69	180	259480	5.000	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	194592	4.572	ug/L	100
69) Naphthalene	13.55	128	227655	3.928	ug/L	98
70) 1,2,3-Trichlorobenzene	13.79	180	181359	4.678	ug/L	96

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

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```
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Instrument :
MSVOA_V
ClientSampleId :
BFB42

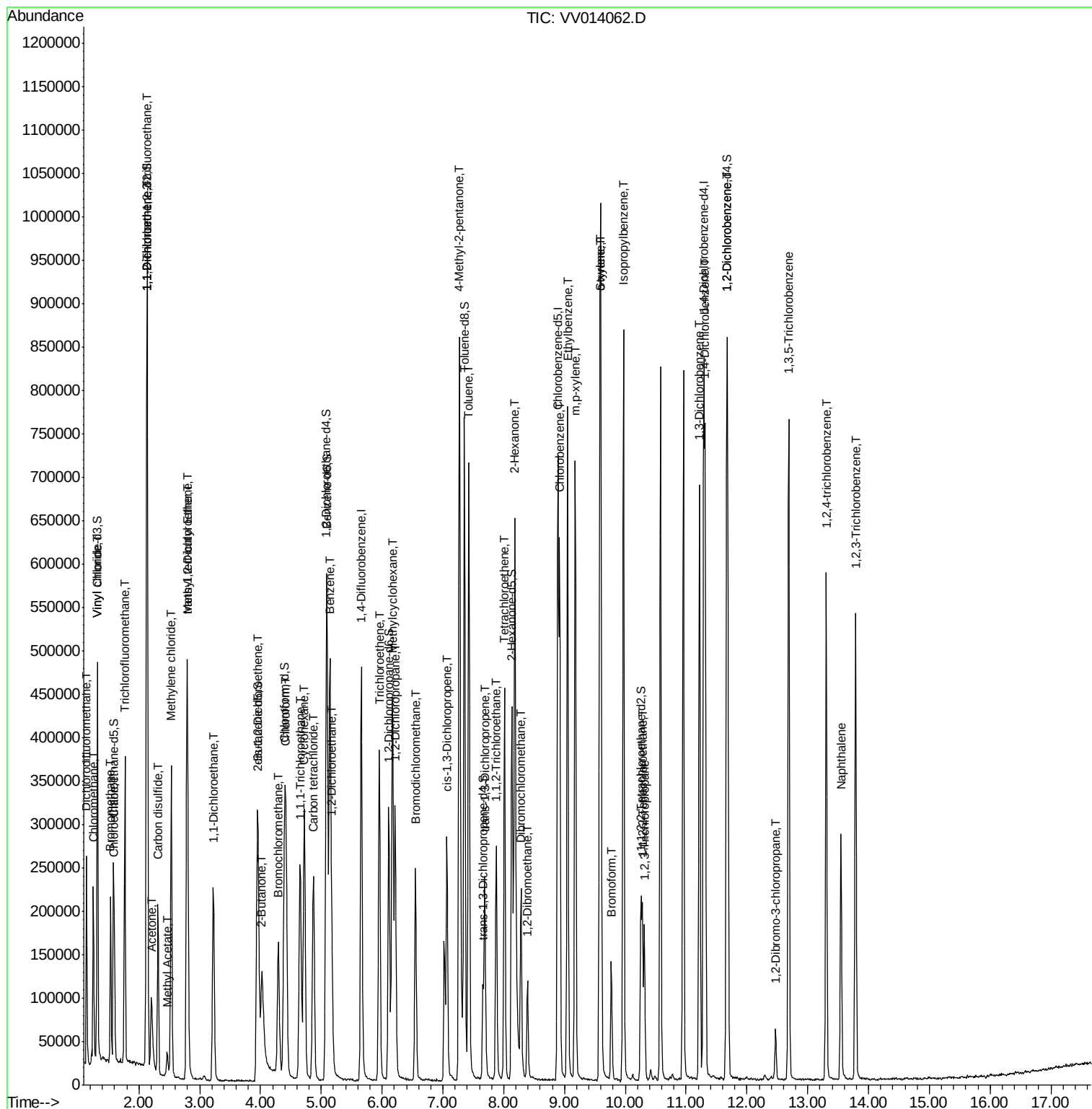
Quant Time: Dec 17 05:36:20 2019

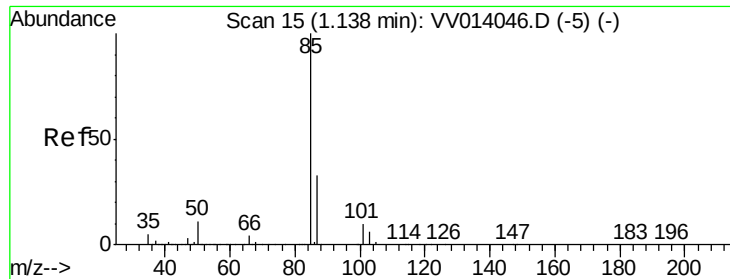
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\SOMVTR112219WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Tue Dec 17 04:55:04 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 4.736 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV014062.D

Acq: 16 Dec 2019 10:25

Instrument :

MSVOA_V

ClientSampled :

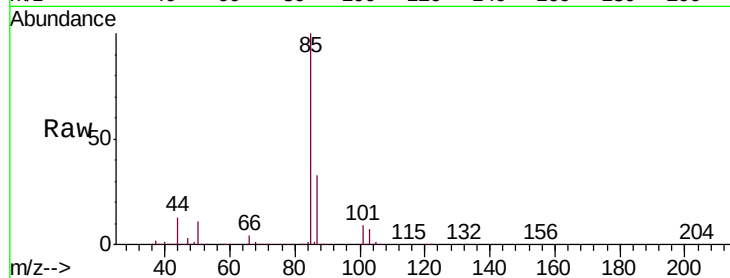
BFB42

Tgt Ion: 85 Resp: 132623

Ion Ratio Lower Upper

85 100

87 33.1 27.4 41.2



Abundance Ion 85.00 (84.70 to 85.70): VV014062.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VV014062.D (-1) (-)

1.14

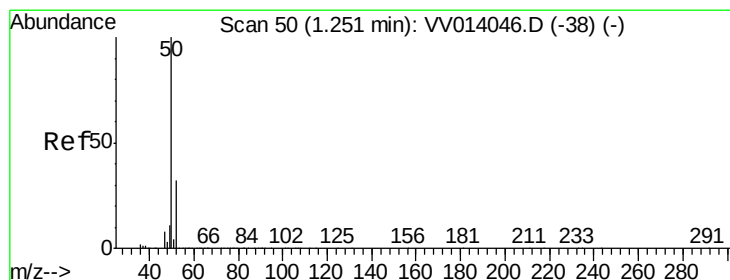
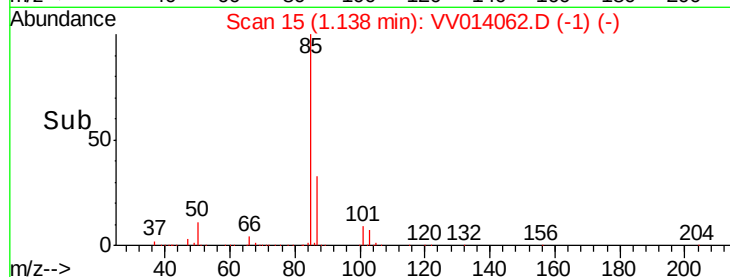
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 5.256 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV014062.D

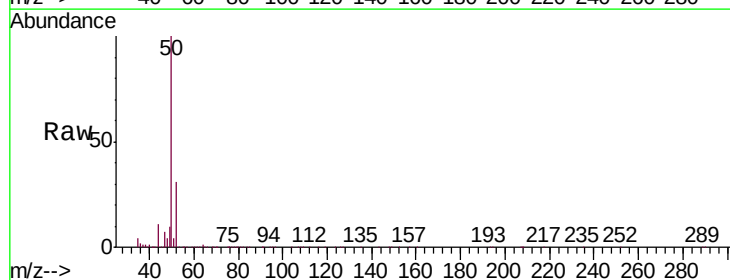
Acq: 16 Dec 2019 10:25

Tgt Ion: 50 Resp: 129266

Ion Ratio Lower Upper

50 100

52 31.1 22.5 41.7



Abundance Ion 50.05 (49.75 to 50.75): VV014062.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VV014062.D (-1) (-)

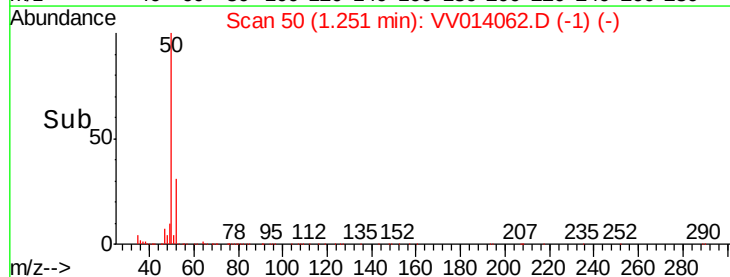
1.25

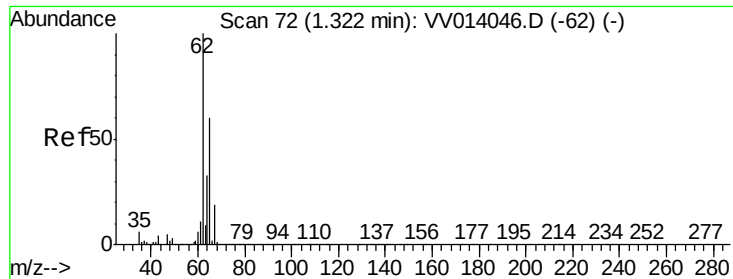
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 5.341 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV014062.D

Acq: 16 Dec 2019 10:25

Instrument :

MSVOA_V

ClientSampleId :

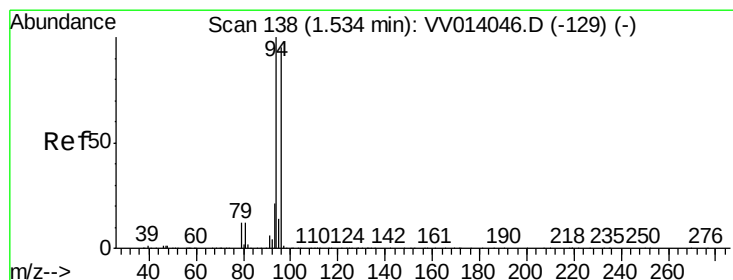
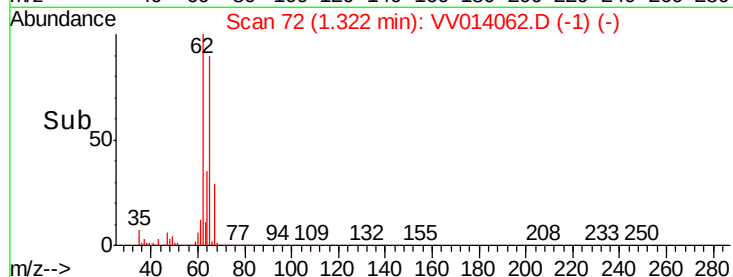
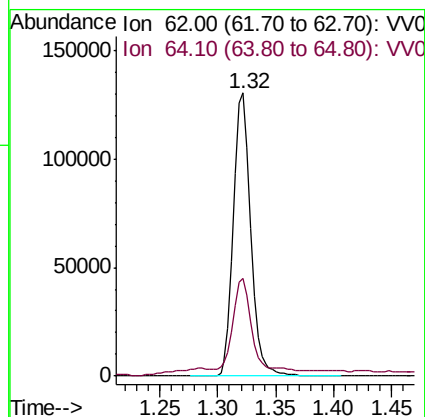
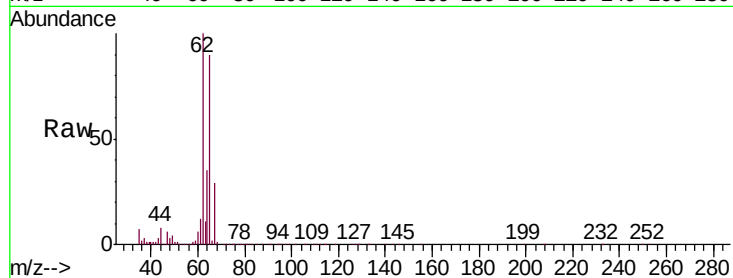
BFB42

Tgt Ion: 62 Resp: 134161

Ion Ratio Lower Upper

62 100

64 34.6 23.3 43.3



#6

Bromomethane

Concen: 5.935 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV014062.D

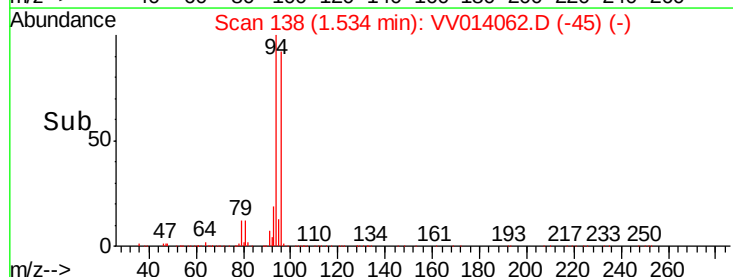
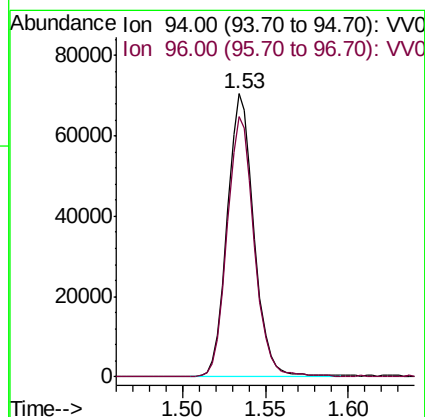
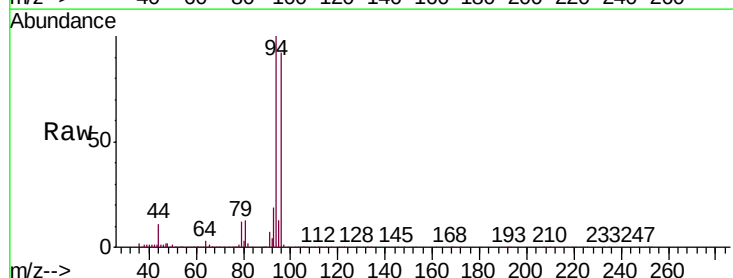
Acq: 16 Dec 2019 10:25

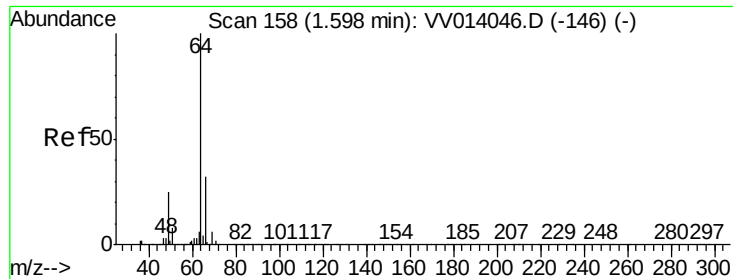
Tgt Ion: 94 Resp: 78506

Ion Ratio Lower Upper

94 100

96 92.2 65.2 121.0





#8

Chloroethane

Concen: 5.408 ug/L

RT: 1.60 min Scan# 158

Delta R.T. -0.00 min

Lab File: VV014062.D

Acq: 16 Dec 2019 10:25

Instrument :

MSVOA_V

ClientSampleId :

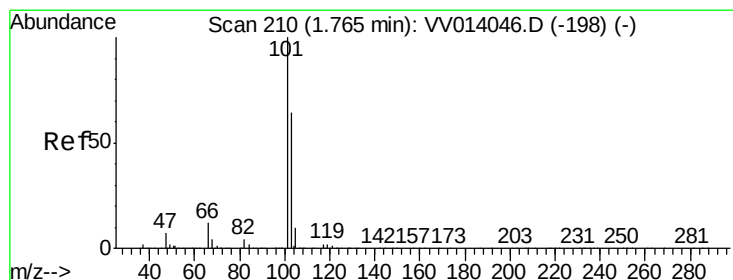
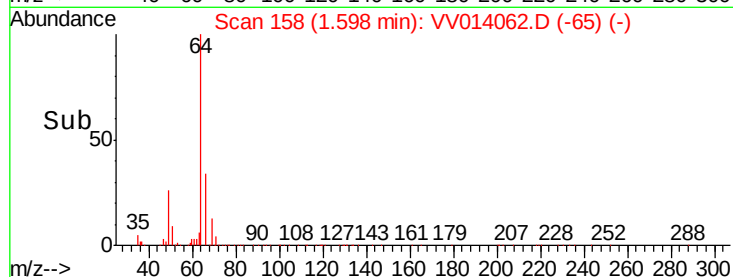
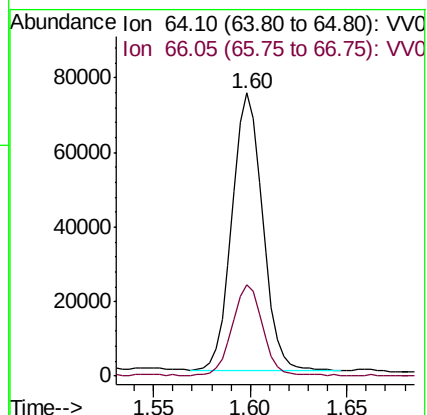
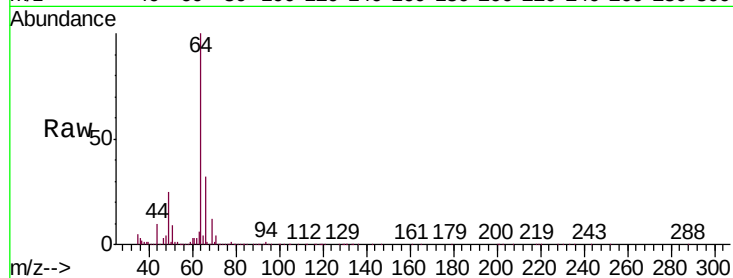
BFB42

Tgt Ion: 64 Resp: 81858

Ion Ratio Lower Upper

64 100

66 32.5 22.6 42.0



#9

Trichlorofluoromethane

Concen: 5.128 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV014062.D

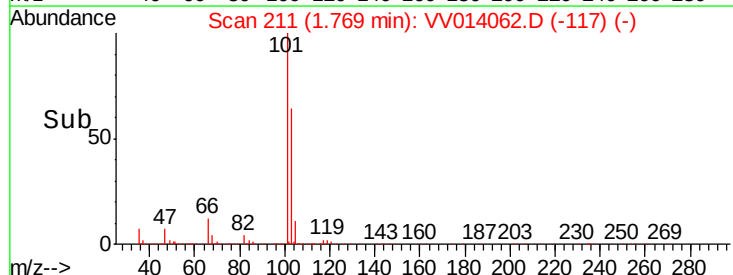
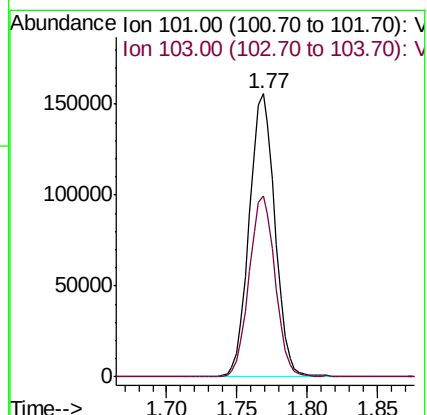
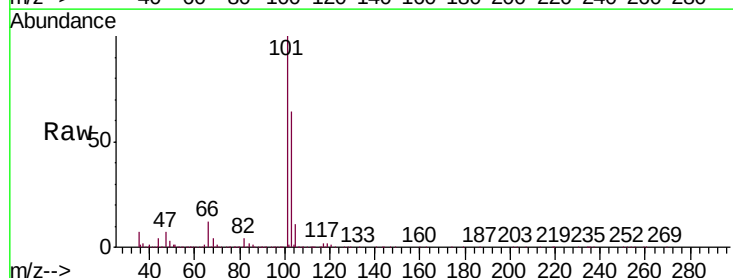
Acq: 16 Dec 2019 10:25

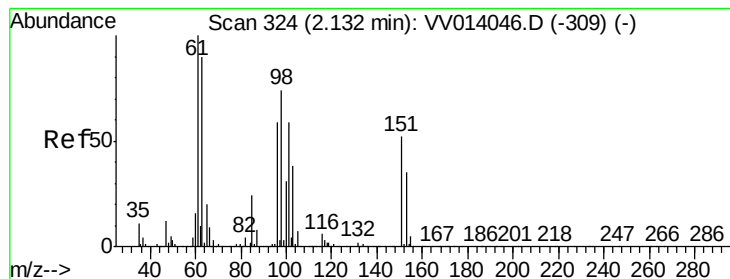
Tgt Ion: 101 Resp: 200010

Ion Ratio Lower Upper

101 100

103 64.4 52.9 79.3





#10

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

Concen: 5.356 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV014062.D

Acq: 16 Dec 2019 10:25

Instrument :

MSVOA_V

ClientSampleId :

BFB42

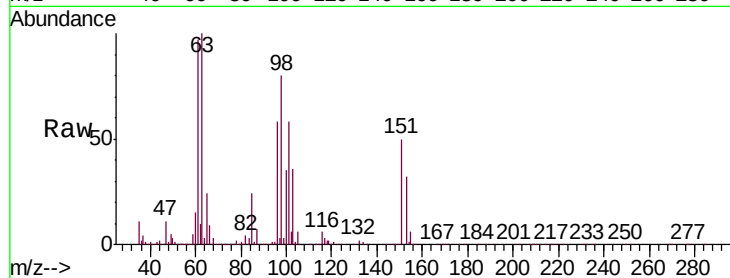
Tgt Ion: 101 Resp: 124140

Ion Ratio Lower Upper

101 100

85 40.7 33.4 50.0

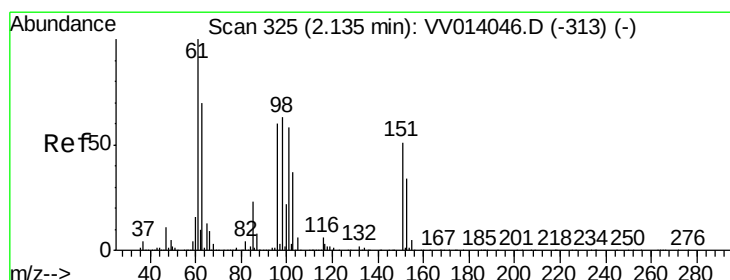
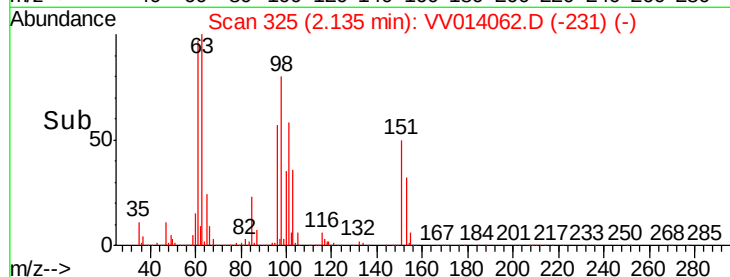
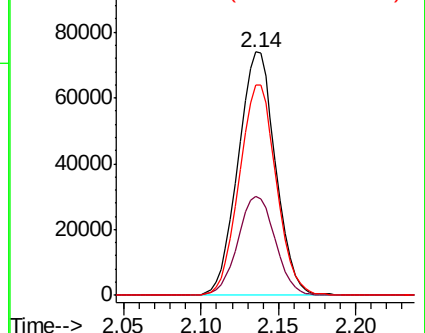
151 85.9 69.4 104.0



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: 5.182 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV014062.D

Acq: 16 Dec 2019 10:25

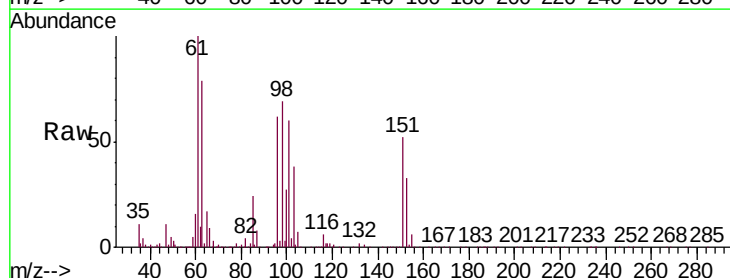
Tgt Ion: 96 Resp: 104763

Ion Ratio Lower Upper

96 100

61 161.1 116.3 215.9

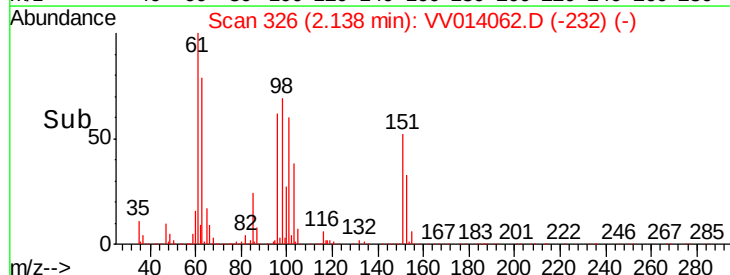
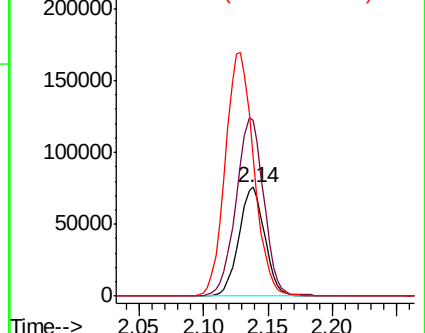
63 127.5 96.7 179.7

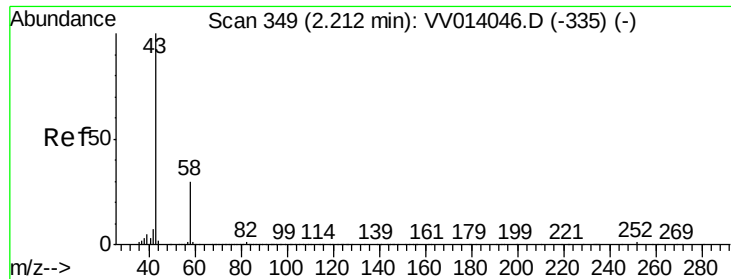


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 43.665 ug/L

RT: 2.21 min Scan# 347

Delta R.T. -0.01 min

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Acq: 16 Dec 2019 10:25

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ClientSampleId :

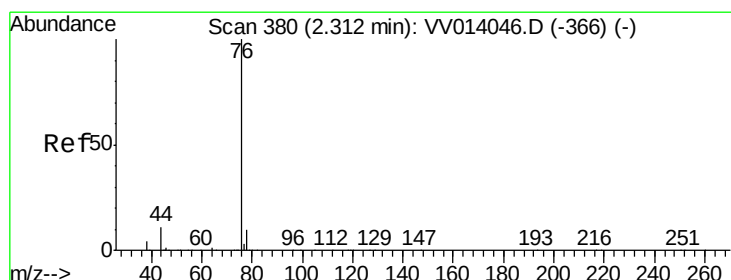
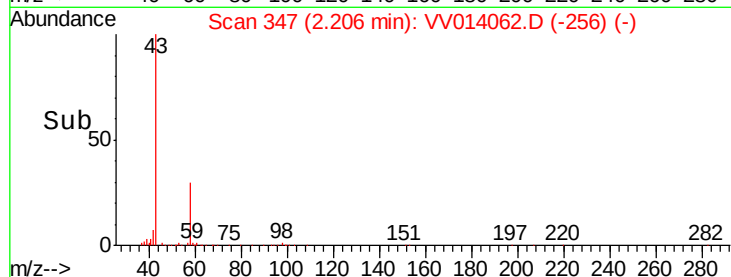
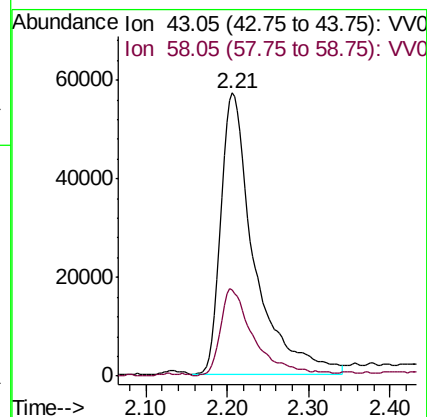
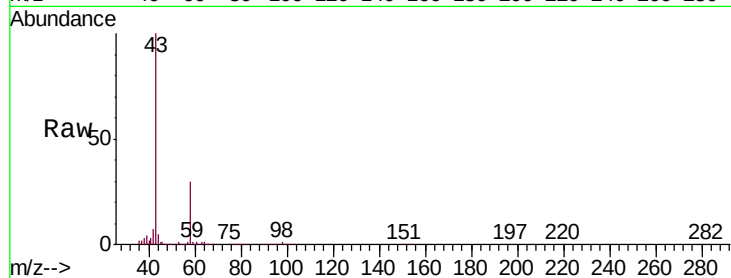
BFB42

Tgt Ion: 43 Resp: 165192

Ion Ratio Lower Upper

43 100

58 29.5 0.0 27.2#



#14

Carbon disulfide

Concen: 4.744 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV014062.D

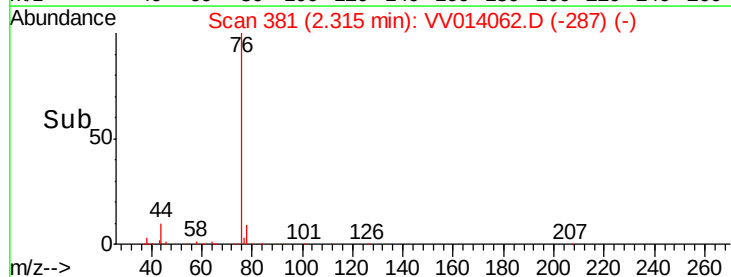
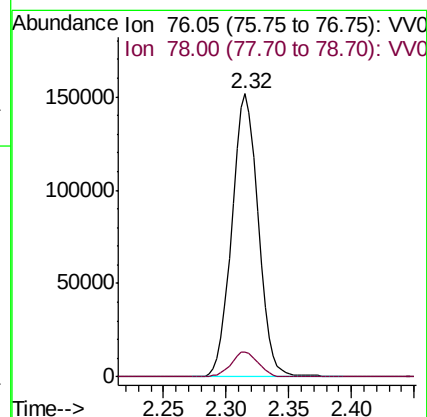
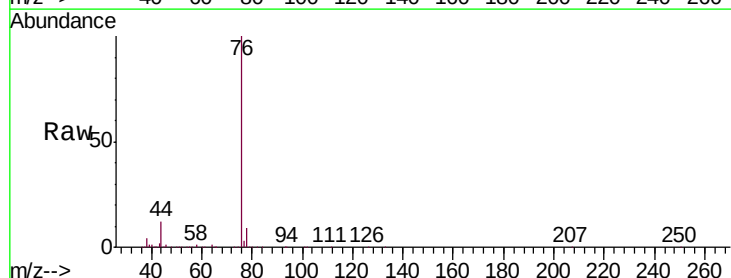
Acq: 16 Dec 2019 10:25

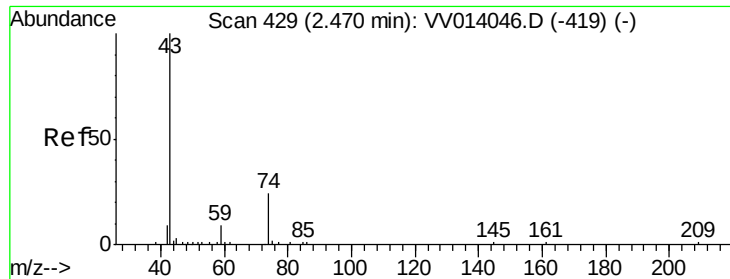
Tgt Ion: 76 Resp: 221407

Ion Ratio Lower Upper

76 100

78 8.9 7.5 11.3

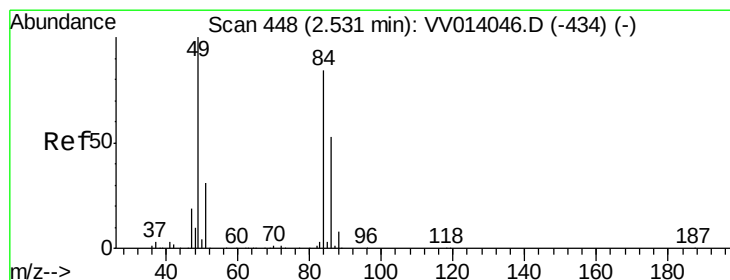
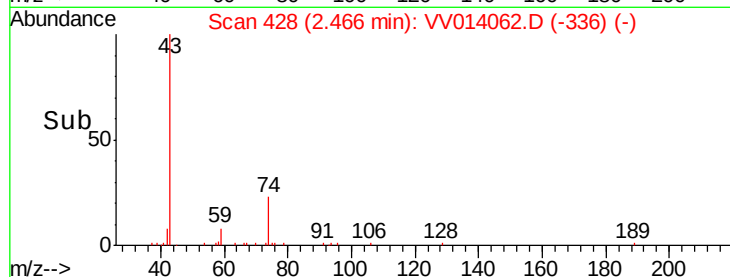
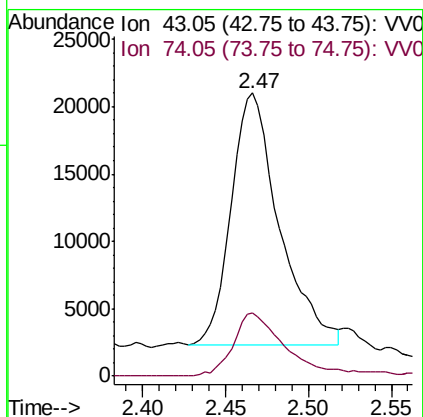
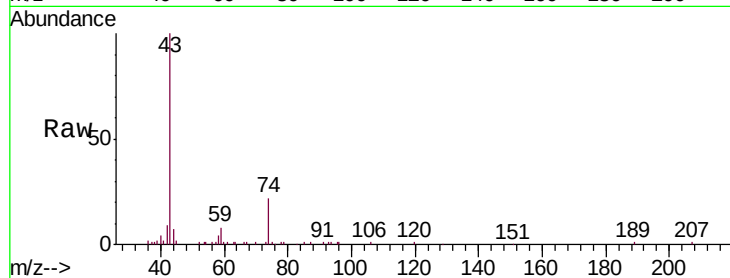




#15
Methyl Acetate
Concen: 4.446 ug/L
RT: 2.47 min Scan# 428
Delta R.T. -0.00 min
Lab File: VV014062.D
Acq: 16 Dec 2019 10:25

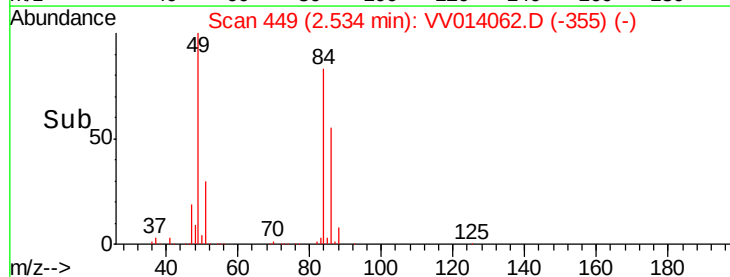
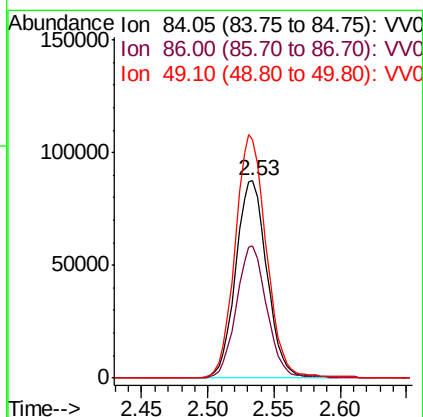
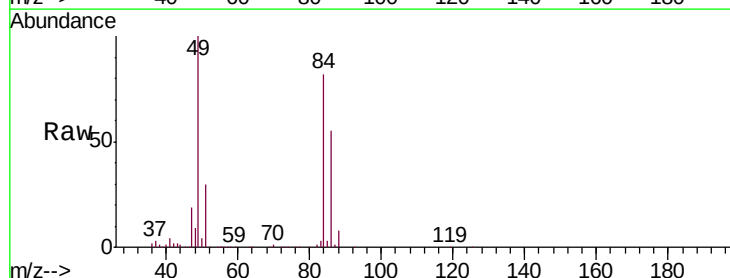
Instrument :
MSVOA_V
ClientSampleId :
BFB42

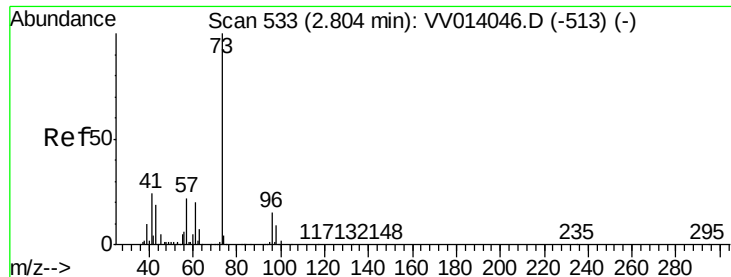
Tgt Ion: 43 Resp: 37654
Ion Ratio Lower Upper
43 100
74 26.8 20.5 30.7



#16
Methylene chloride
Concen: 5.203 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV014062.D
Acq: 16 Dec 2019 10:25

Tgt Ion: 84 Resp: 144077
Ion Ratio Lower Upper
84 100
86 66.9 44.0 81.6
49 121.2 81.5 151.5





#17

Methyl tert-butyl Ether

Concen: 4.701 ug/L

RT: 2.80 min Scan# 532

Delta R.T. -0.00 min

Lab File: VV014062.D

Acq: 16 Dec 2019 10:25

Instrument :

MSVOA_V

ClientSampleId :

BFB42

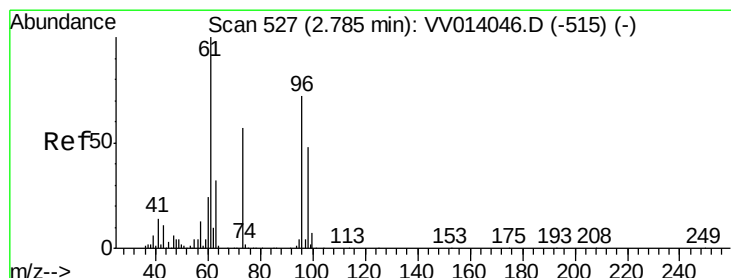
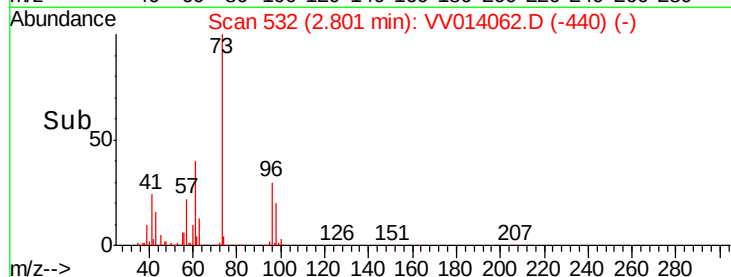
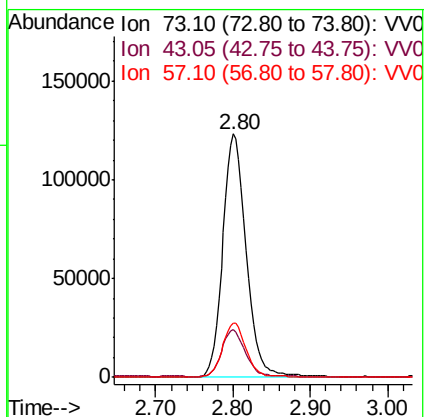
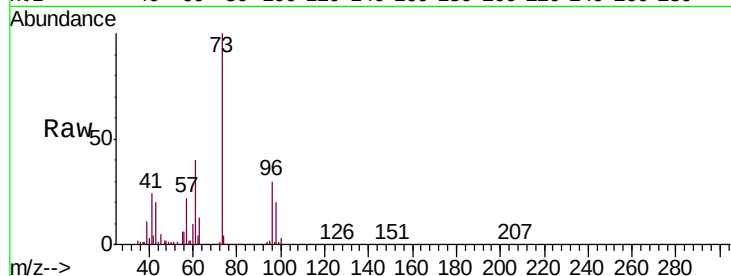
Tgt Ion: 73 Resp: 260056

Ion Ratio Lower Upper

73 100

43 19.2 15.5 23.3

57 22.5 17.5 26.3



#18

trans-1,2-Dichloroethene

Concen: 4.783 ug/L

RT: 2.79 min Scan# 528

Delta R.T. 0.00 min

Lab File: VV014062.D

Acq: 16 Dec 2019 10:25

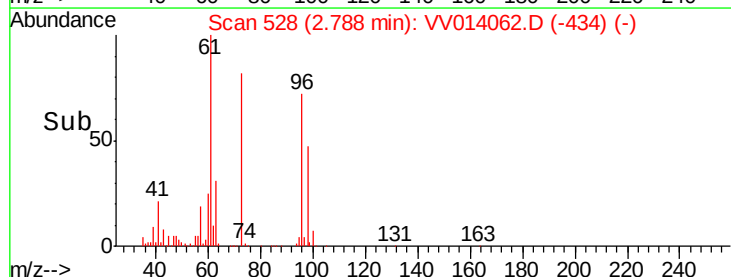
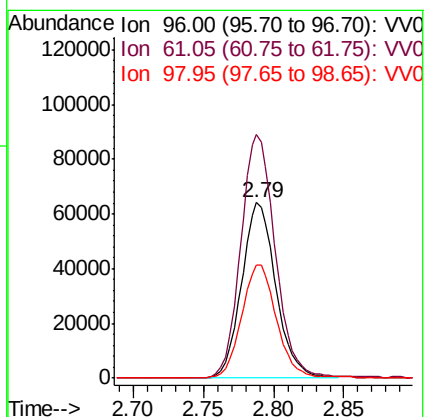
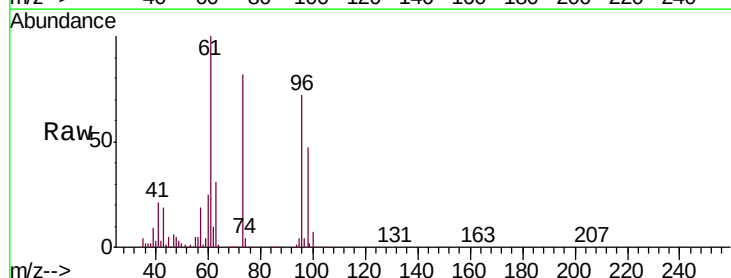
Tgt Ion: 96 Resp: 109176

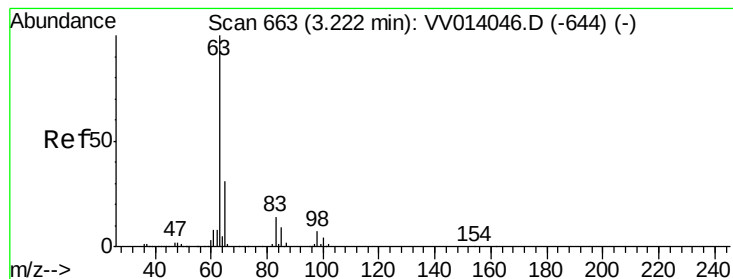
Ion Ratio Lower Upper

96 100

61 139.0 95.1 176.7

98 64.7 46.5 86.3





#19

1,1-Dichloroethane

Concen: 5.020 ug/L

RT: 3.23 min Scan# 664

Delta R.T. 0.00 min

Lab File: VV014062.D

Acq: 16 Dec 2019 10:25

Instrument :

MSVOA_V

ClientSampleId :

BFB42

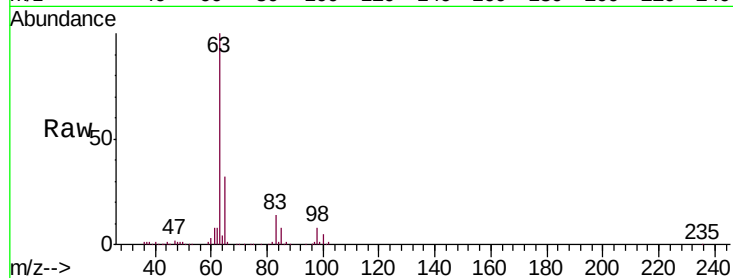
Tgt Ion: 63 Resp: 228761

Ion Ratio Lower Upper

63 100

65 31.8 22.7 42.1

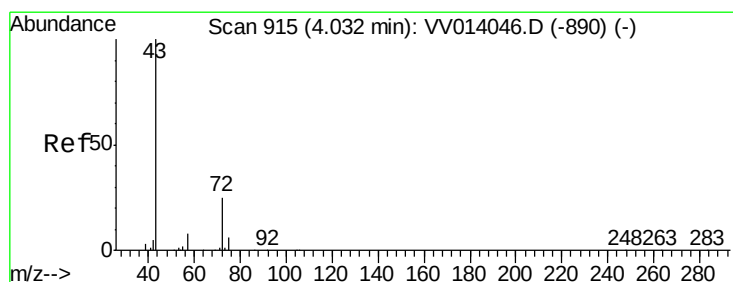
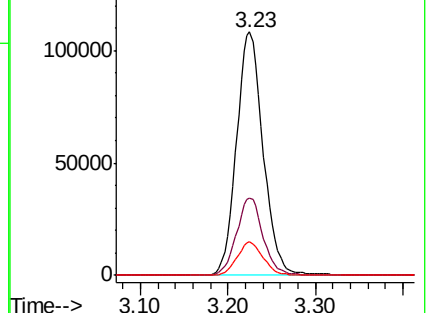
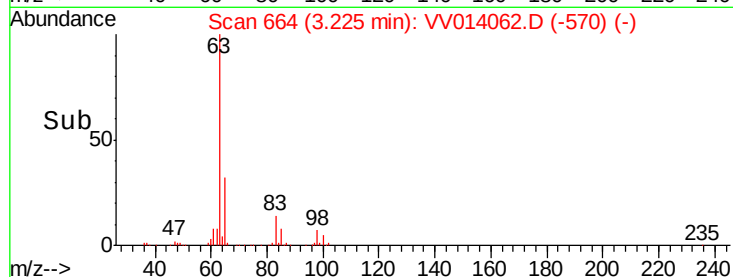
83 13.8 9.2 17.2



Abundance Ion 63.10 (62.80 to 63.80): VV014046.D (-644) (-)

Ion 65.10 (64.80 to 65.80): VV014046.D (-644) (-)

Ion 83.05 (82.75 to 83.75): VV014046.D (-644) (-)



#21

2-Butanone

Concen: 42.834 ug/L

RT: 4.03 min Scan# 913

Delta R.T. -0.01 min

Lab File: VV014062.D

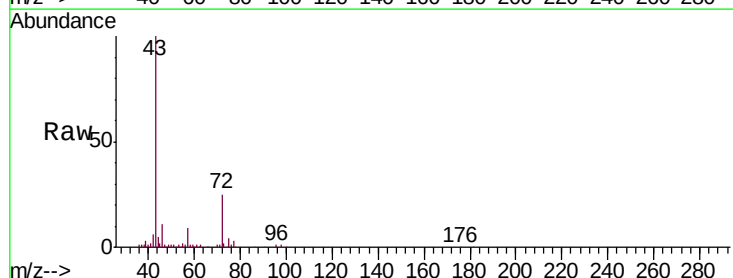
Acq: 16 Dec 2019 10:25

Tgt Ion: 43 Resp: 244941

Ion Ratio Lower Upper

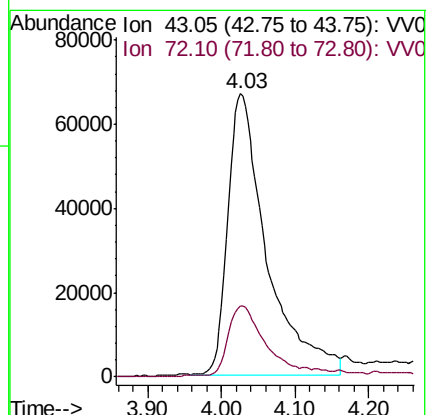
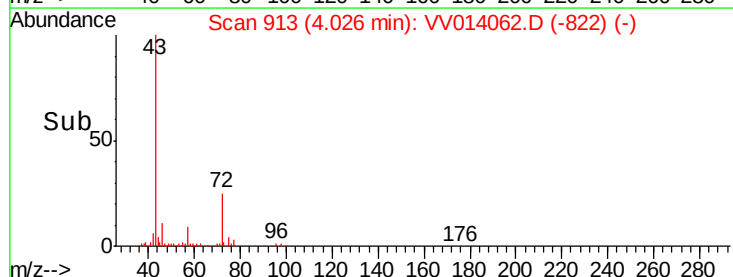
43 100

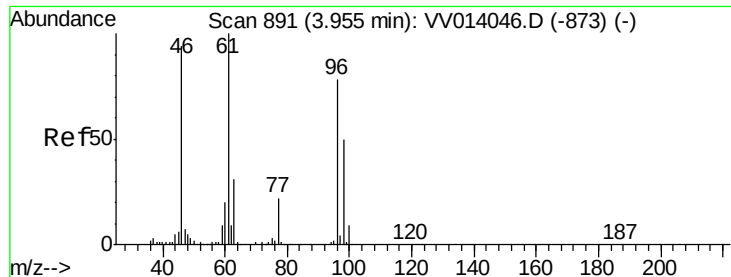
72 22.7 12.3 36.9



Abundance Ion 43.05 (42.75 to 43.75): VV014046.D (-890) (-)

Ion 72.10 (71.80 to 72.80): VV014046.D (-890) (-)



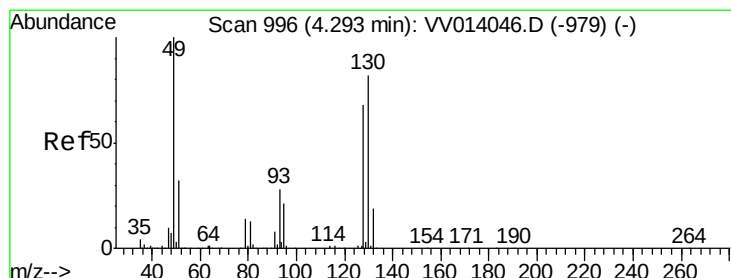
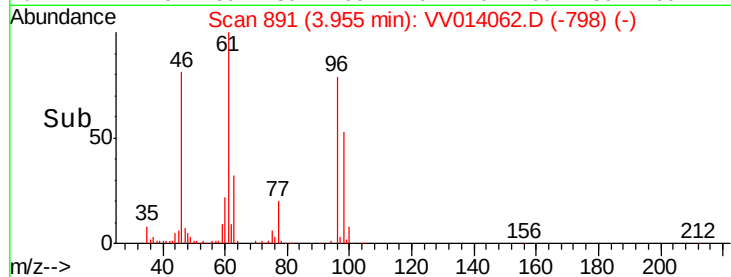
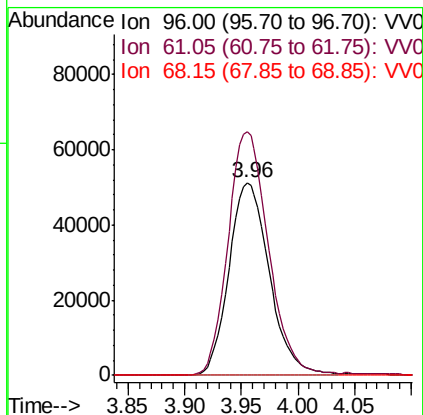
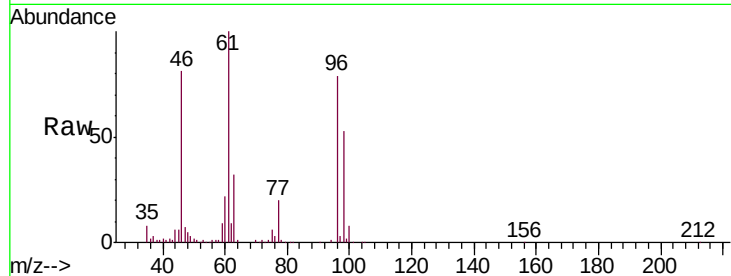


#22

cis-1,2-Dichloroethene
 Concen: 4.771 ug/L
 RT: 3.96 min Scan# 891
 Delta R.T. -0.00 min
 Lab File: VV014062.D
 Acq: 16 Dec 2019 10:25

Instrument :
 MSVOA_V
 ClientSampleId :
 BFB42

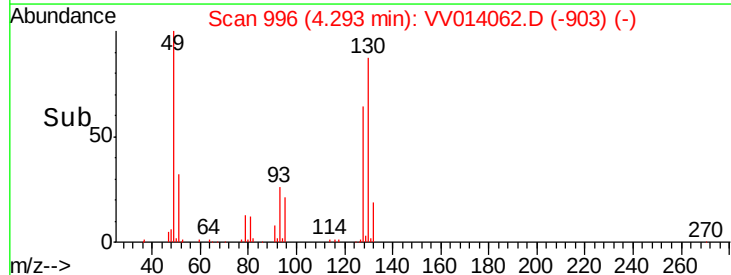
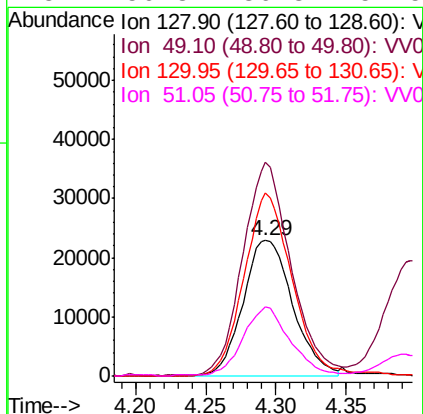
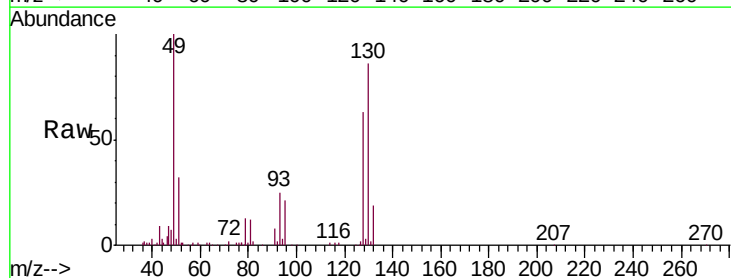
Tgt Ion: 96 Resp: 127716
 Ion Ratio Lower Upper
 96 100
 61 126.3 86.1 159.9
 68 0.0 0.0 0.0

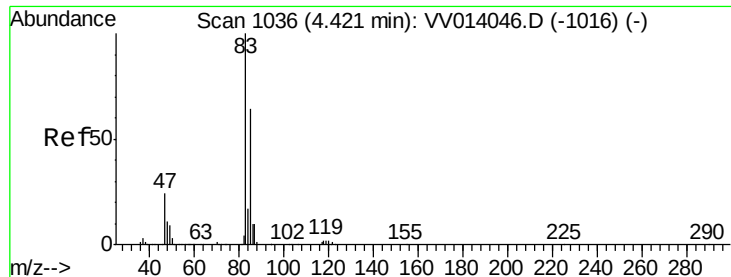


#23

Bromochloromethane
 Concen: 4.804 ug/L
 RT: 4.29 min Scan# 996
 Delta R.T. -0.00 min
 Lab File: VV014062.D
 Acq: 16 Dec 2019 10:25

Tgt Ion: 128 Resp: 56504
 Ion Ratio Lower Upper
 128 100
 49 157.9 100.1 185.9
 130 135.1 89.0 165.4
 51 50.8 36.3 54.5

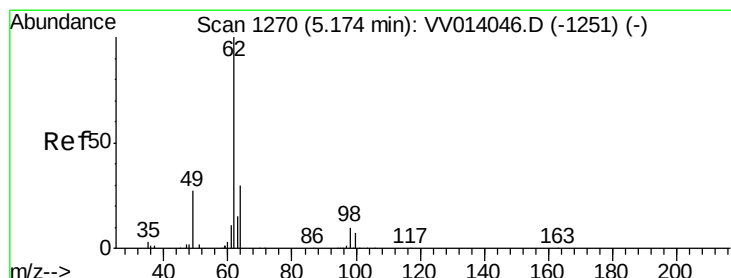
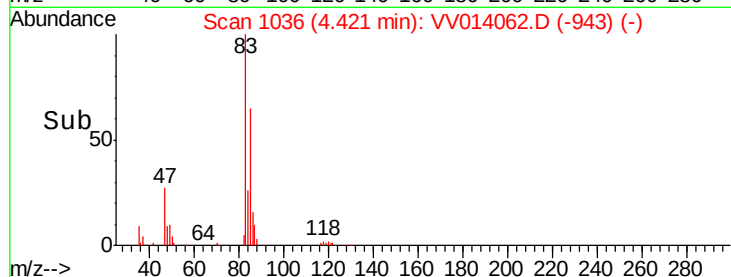
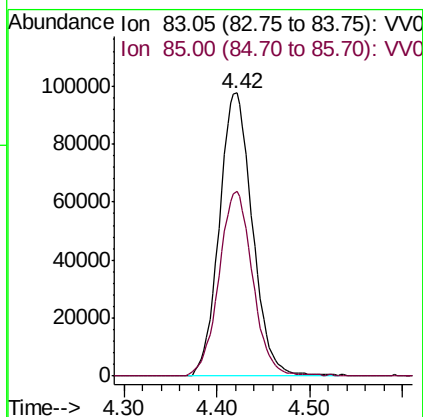
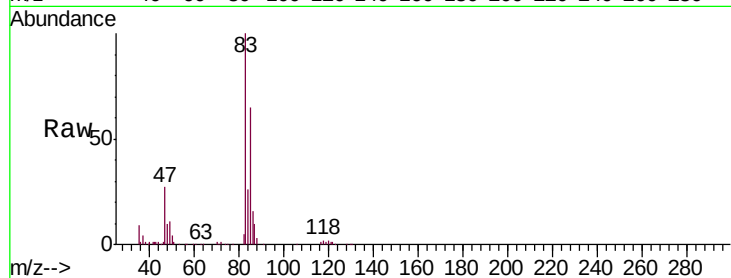




#25
Chloroform
Concen: 5.002 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VV014062.D
Acq: 16 Dec 2019 10:25

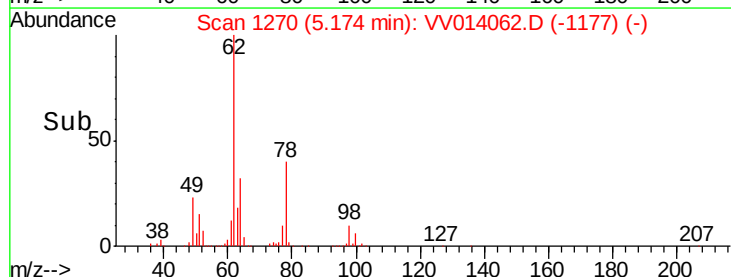
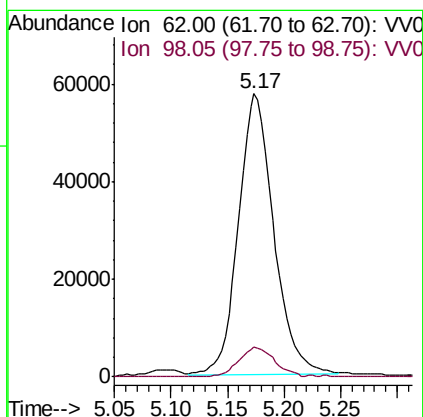
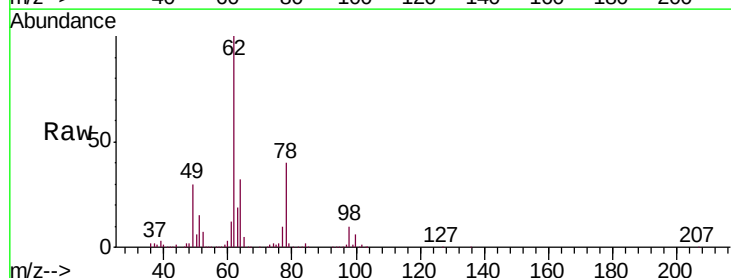
Instrument :
MSVOA_V
ClientSampled :
BFB42

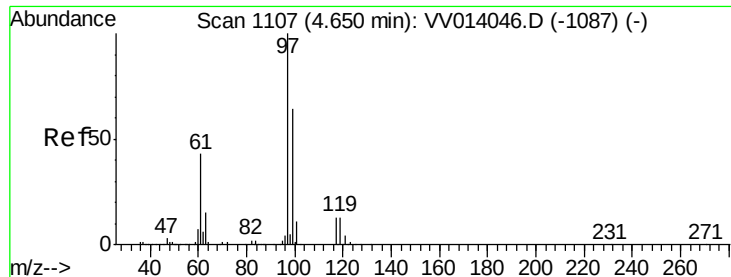
Tgt Ion: 83 Resp: 241660
Ion Ratio Lower Upper
83 100
85 65.2 45.1 83.7



#27
1,2-Dichloroethane
Concen: 4.507 ug/L
RT: 5.17 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VV014062.D
Acq: 16 Dec 2019 10:25

Tgt Ion: 62 Resp: 124614
Ion Ratio Lower Upper
62 100
98 10.4 8.2 12.2

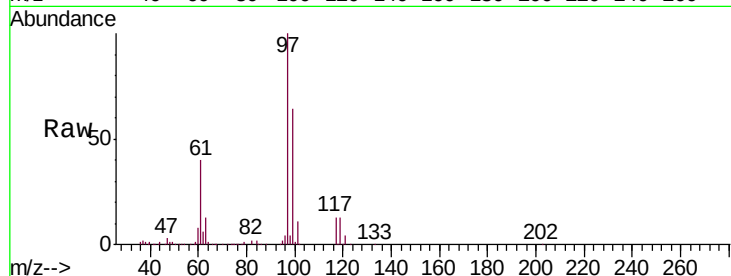




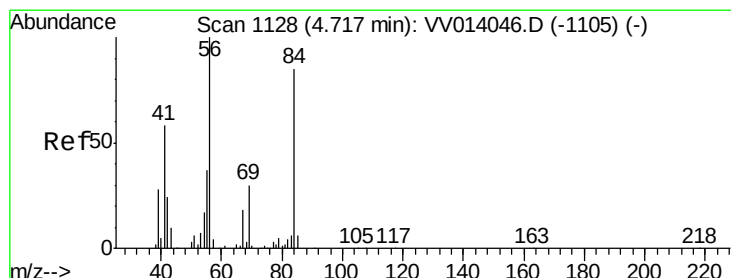
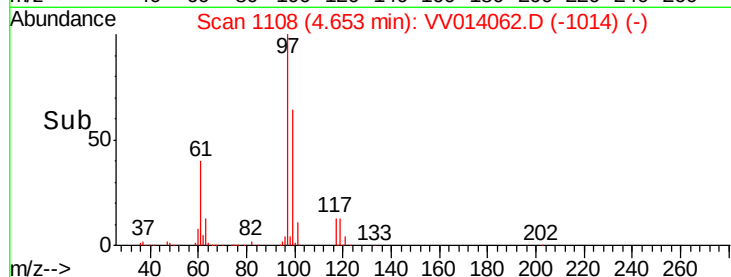
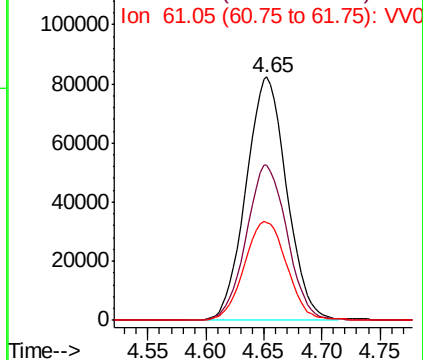
#29
 1,1,1-Trichloroethane
 Concen: 5.044 ug/L
 RT: 4.65 min Scan# 1108
 Delta R.T. 0.00 min
 Lab File: VV014062.D
 Acq: 16 Dec 2019 10:25

Instrument :
 MSVOA_V
 ClientSampled :
 BFB42

Tgt Ion: 97 Resp: 200945
 Ion Ratio Lower Upper
 97 100
 99 64.3 51.7 77.5
 61 42.4 35.0 52.6

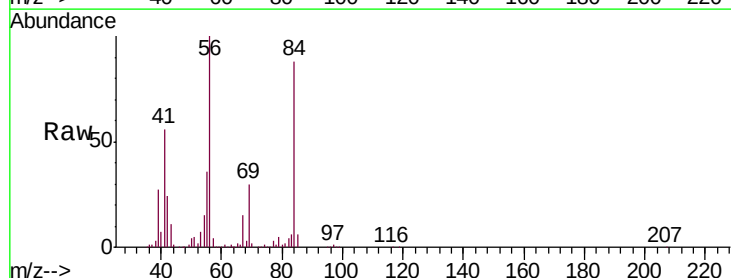


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 61.05 (60.75 to 61.75): VV0

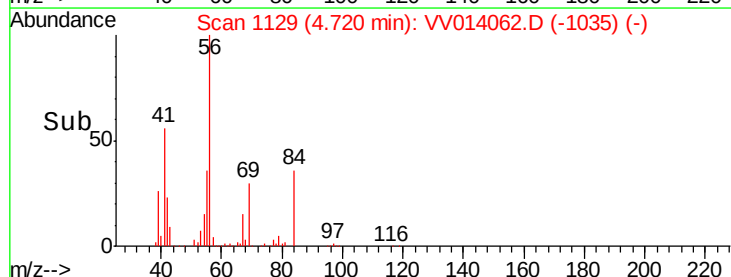
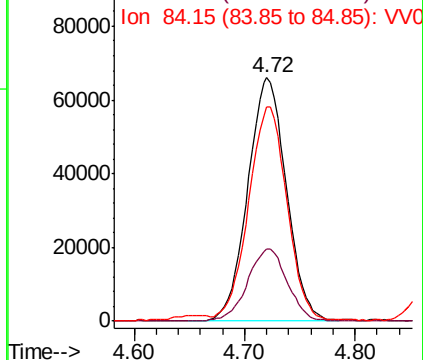


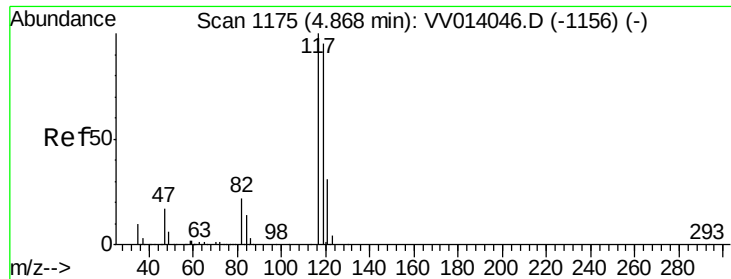
#30
 Cyclohexane
 Concen: 4.800 ug/L
 RT: 4.72 min Scan# 1129
 Delta R.T. 0.00 min
 Lab File: VV014062.D
 Acq: 16 Dec 2019 10:25

Tgt Ion: 56 Resp: 159759
 Ion Ratio Lower Upper
 56 100
 69 30.6 24.1 36.1
 84 86.2 69.9 104.9



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: 5.052 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VV014062.D

Acq: 16 Dec 2019 10:25

Instrument :

MSVOA_V

ClientSampleId :

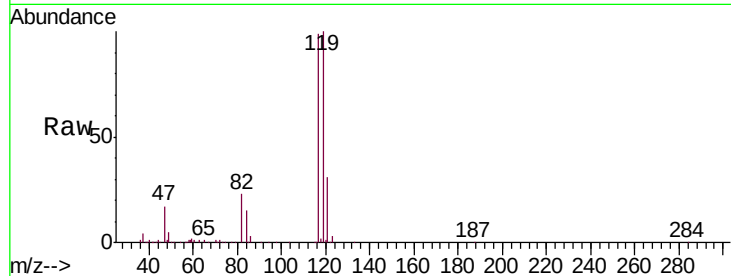
BFB42

Tgt Ion:117 Resp: 177061

Ion Ratio Lower Upper

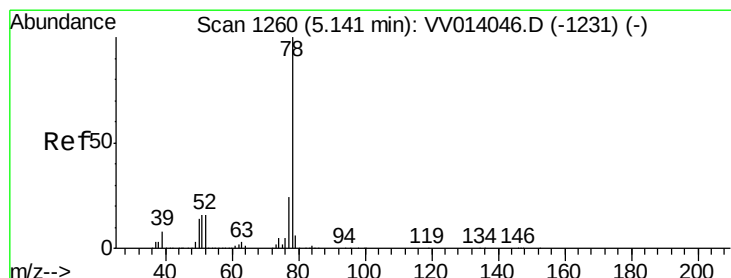
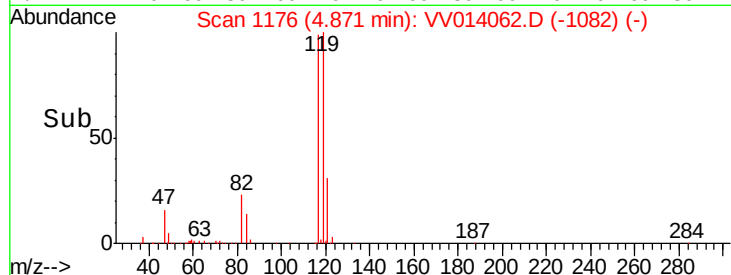
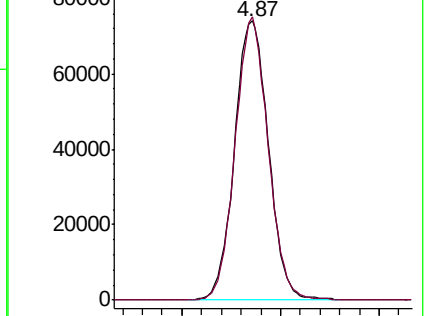
117 100

119 98.2 76.8 115.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.992 ug/L

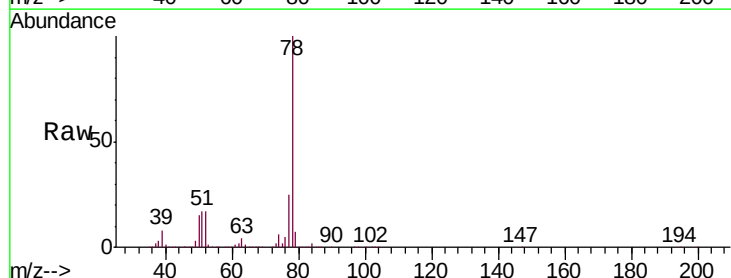
RT: 5.14 min Scan# 1260

Delta R.T. -0.00 min

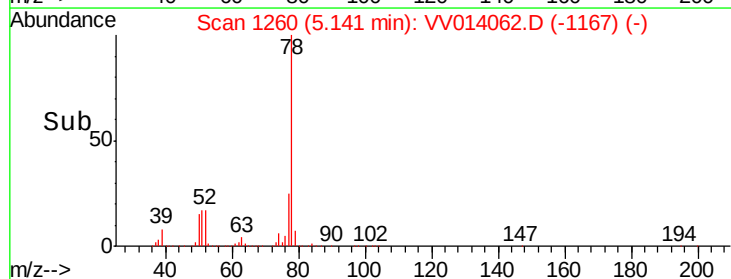
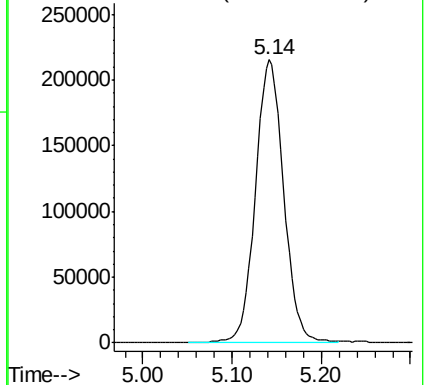
Lab File: VV014062.D

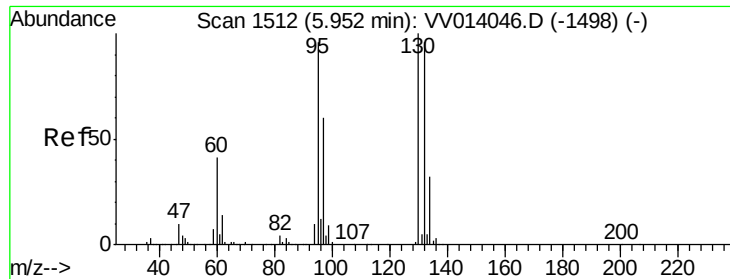
Acq: 16 Dec 2019 10:25

Tgt Ion: 78 Resp: 476878



Abundance Ion 78.10 (77.80 to 78.80): VV0

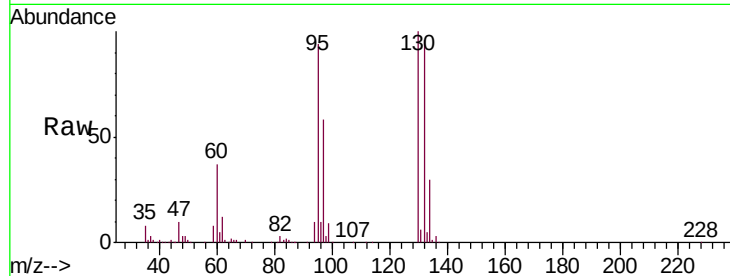




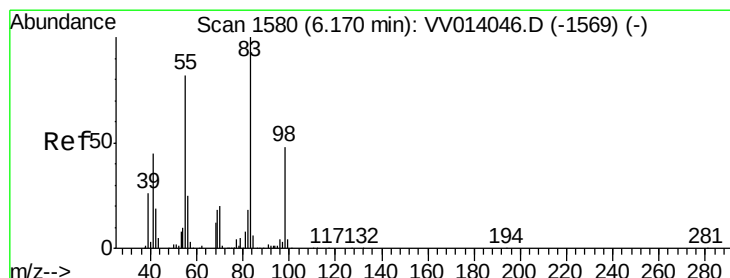
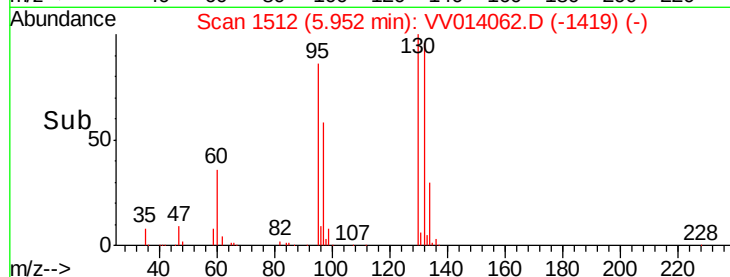
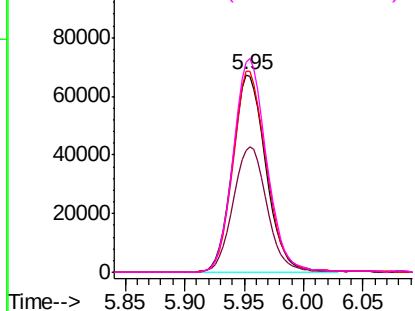
#34
 Trichloroethene
 Concen: 4.986 ug/L
 RT: 5.95 min Scan# 1512
 Delta R.T. -0.00 min
 Lab File: VV014062.D
 Acq: 16 Dec 2019 10:25

Instrument :
 MSVOA_V
 ClientSampleId :
 BFB42

Tgt Ion:	95	Resp:	131395
Ion	Ratio	Lower	Upper
95	100		
97	61.4	45.6	84.8
132	101.8	70.5	130.9
130	106.3	75.9	140.9

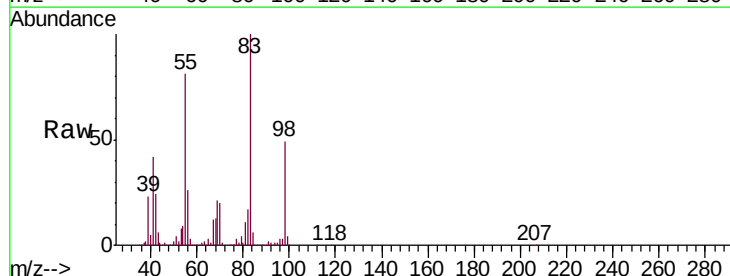


Abundance Ion 95.00 (94.70 to 95.70): VV014062.D (-1498) (-)
 Ion 96.95 (96.65 to 97.65): VV014062.D (-1498) (-)
 Ion 131.95 (131.65 to 132.65): VV014062.D (-1498) (-)
 Ion 129.95 (129.65 to 130.65): VV014062.D (-1498) (-)

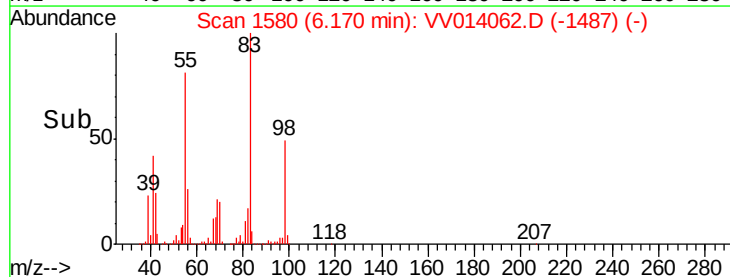
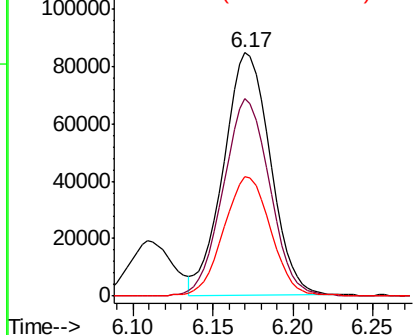


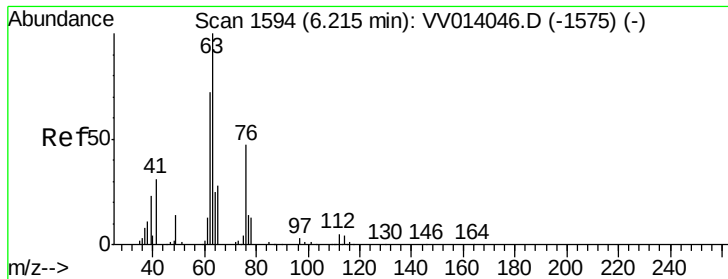
#35
 Methylcyclohexane
 Concen: 4.801 ug/L
 RT: 6.17 min Scan# 1580
 Delta R.T. -0.00 min
 Lab File: VV014062.D
 Acq: 16 Dec 2019 10:25

Tgt Ion:	83	Resp:	168799
Ion	Ratio	Lower	Upper
83	100		
55	81.1	60.3	90.5
98	49.8	38.1	57.1



Abundance Ion 83.15 (82.85 to 83.85): VV014062.D (-1487) (-)
 Ion 55.10 (54.80 to 55.80): VV014062.D (-1487) (-)
 Ion 98.15 (97.85 to 98.85): VV014062.D (-1487) (-)

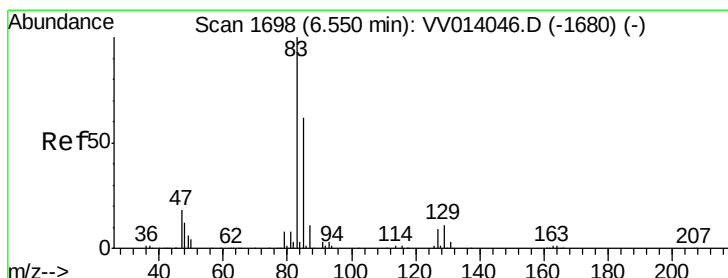
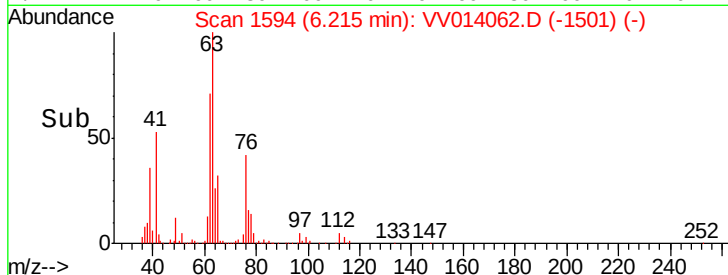
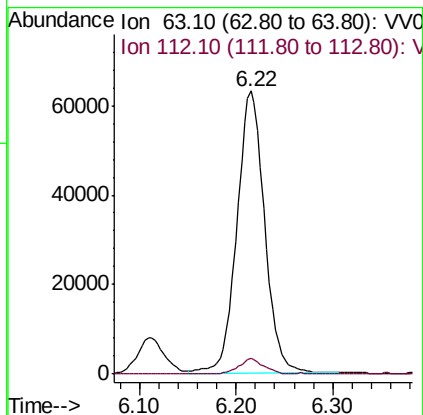
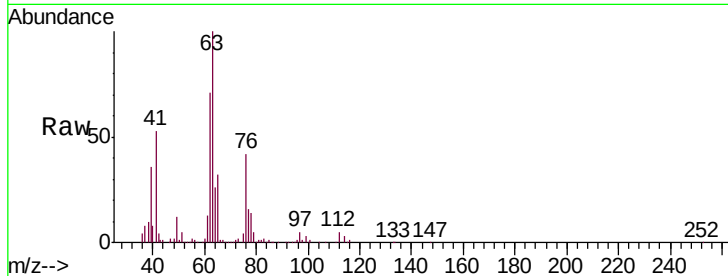




#37
 1,2-Dichloropropane
 Concen: 5.112 ug/L
 RT: 6.22 min Scan# 1594
 Delta R.T. -0.00 min
 Lab File: VV014062.D
 Acq: 16 Dec 2019 10:25

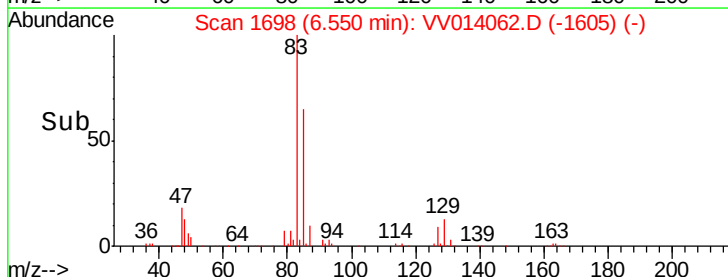
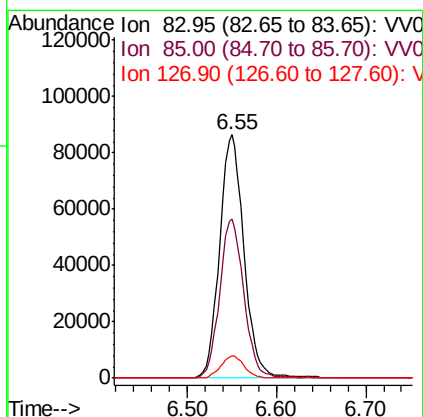
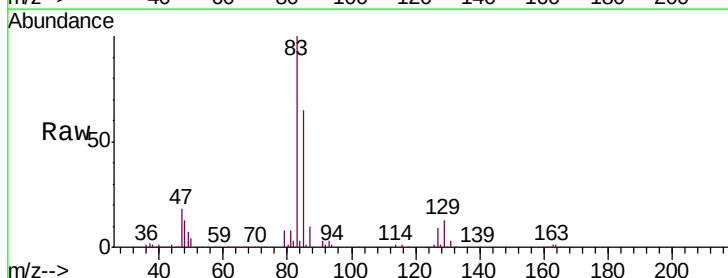
Instrument :
 MSVOA_V
 ClientSampleId :
 BFB42

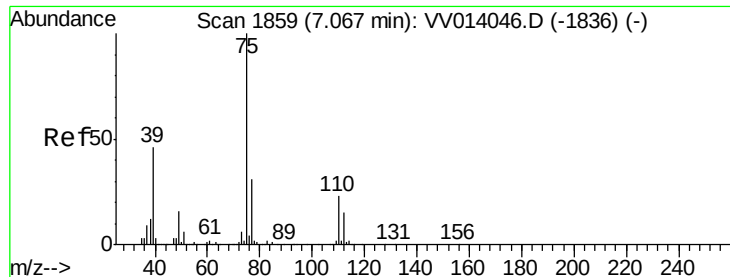
Tgt Ion: 63 Resp: 125512
 Ion Ratio Lower Upper
 63 100
 112 5.0 4.4 6.6



#38
 Bromodichloromethane
 Concen: 5.056 ug/L
 RT: 6.55 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VV014062.D
 Acq: 16 Dec 2019 10:25

Tgt Ion: 83 Resp: 163772
 Ion Ratio Lower Upper
 83 100
 85 65.1 46.1 85.5
 127 8.9 7.5 11.3





#39

cis-1,3-Dichloropropene

Concen: 4.841 ug/L

RT: 7.06 min Scan# 1858

Delta R.T. -0.00 min

Lab File: VV014062.D

Acq: 16 Dec 2019 10:25

Instrument :

MSVOA_V

ClientSampled :

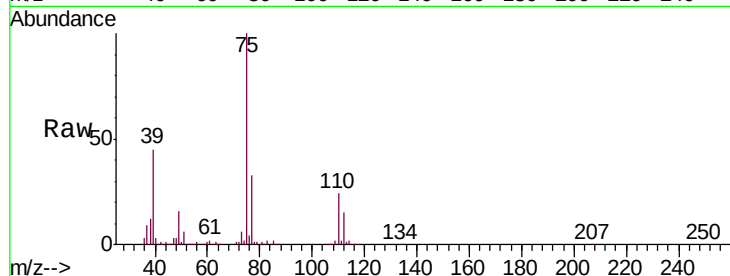
BFB42

Tgt Ion: 75 Resp: 168632

Ion Ratio Lower Upper

75 100

77 33.2 22.5 41.9



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.06

100000

80000

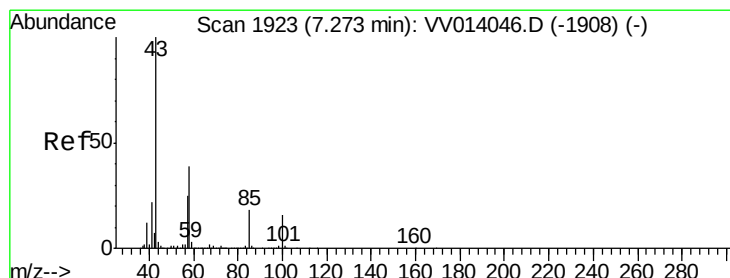
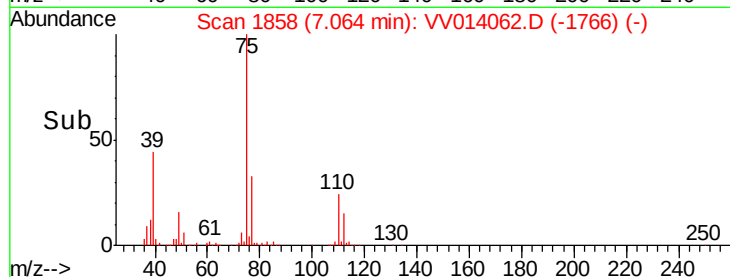
60000

40000

20000

0

Time-->



#40

4-Methyl-2-pentanone

Concen: 48.062 ug/L

RT: 7.27 min Scan# 1922

Delta R.T. -0.00 min

Lab File: VV014062.D

Acq: 16 Dec 2019 10:25

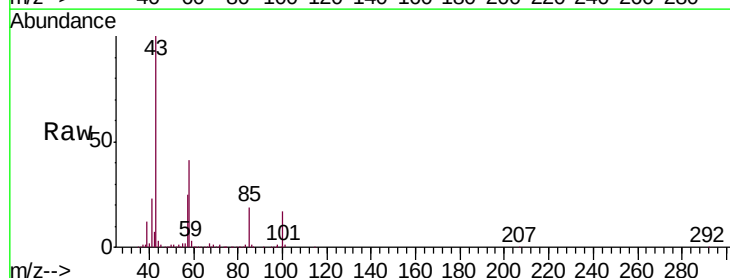
Tgt Ion: 43 Resp: 688500

Ion Ratio Lower Upper

43 100

58 40.9 32.3 48.5

100 15.2 12.7 19.1



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

7.27

400000

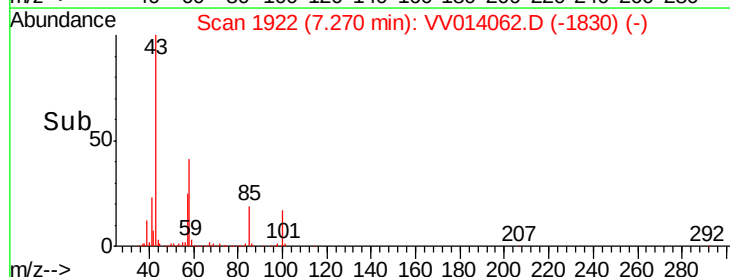
300000

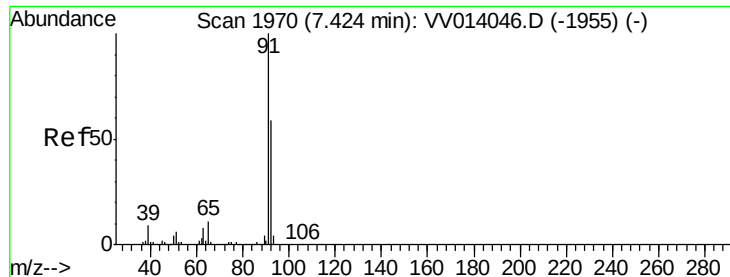
200000

100000

0

Time-->





#42

Toluene

Concen: 5.031 ug/L

RT: 7.42 min Scan# 1970

Delta R.T. -0.00 min

Lab File: VV014062.D

Acq: 16 Dec 2019 10:25

Instrument :

MSVOA_V

ClientSampleId :

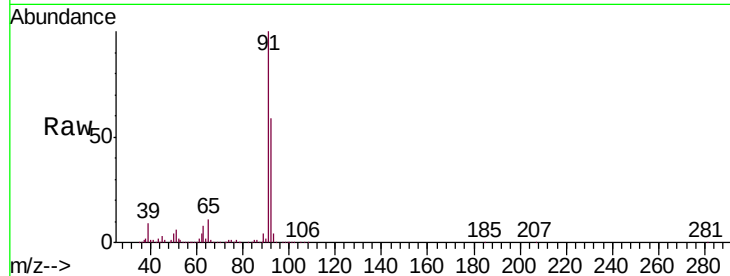
BFB42

Tgt Ion: 91 Resp: 515495

Ion Ratio Lower Upper

91 100

92 59.0 41.1 76.3



Abundance Ion 91.15 (90.85 to 91.85): VV014046.D (-1955) (-)

Ion 92.15 (91.85 to 92.85): VV014046.D (-1955) (-)

7.42

300000

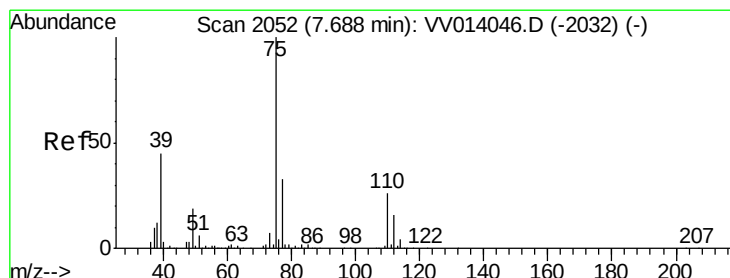
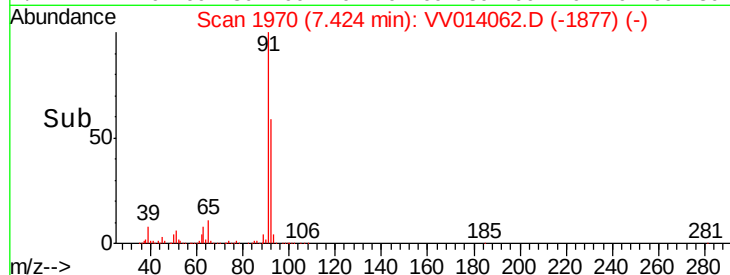
200000

100000

0

7.40 7.50

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.784 ug/L

RT: 7.69 min Scan# 2052

Delta R.T. -0.00 min

Lab File: VV014062.D

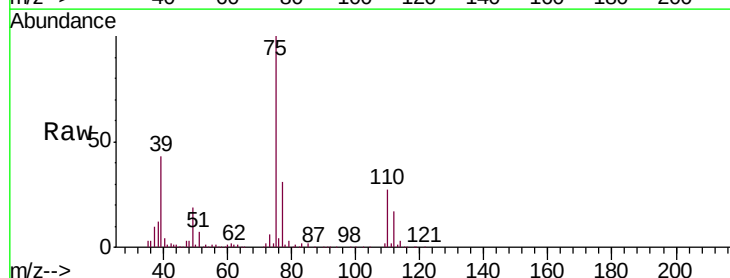
Acq: 16 Dec 2019 10:25

Tgt Ion: 75 Resp: 130456

Ion Ratio Lower Upper

75 100

77 30.8 23.0 42.8



Abundance Ion 75.05 (74.75 to 75.75): VV014046.D (-2032) (-)

Ion 77.05 (76.75 to 77.75): VV014046.D (-2032) (-)

7.69

80000

60000

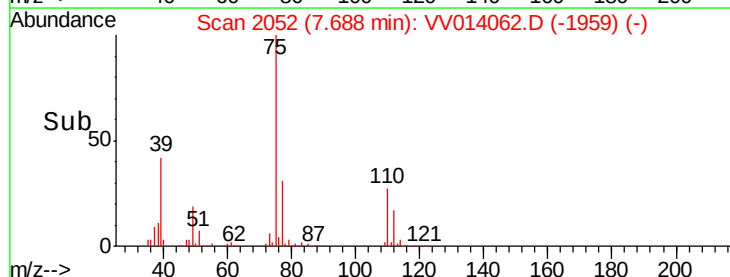
40000

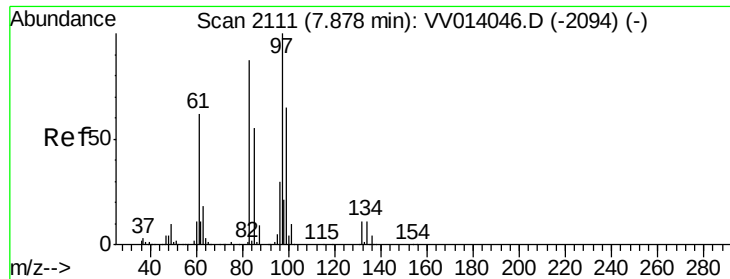
20000

0

7.60 7.70 7.80

Time-->

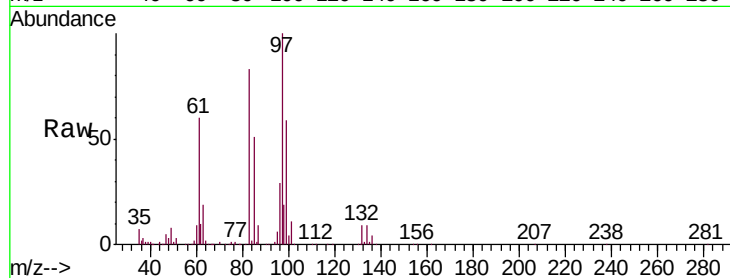




#45
1,1,2-Trichloroethane
Concen: 4.889 ug/L
RT: 7.88 min Scan# 2111
Delta R.T. -0.00 min
Lab File: VV014062.D
Acq: 16 Dec 2019 10:25

Instrument :
MSVOA_V
ClientSampleId :
BFB42

Tgt Ion:	97	Resp:	85537
Ion	Ratio	Lower	Upper
97	100		
99	59.3	44.2	82.0
83	83.0	59.7	110.9
85	50.6	38.3	71.1



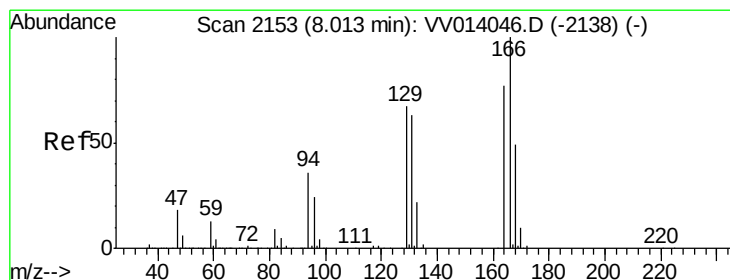
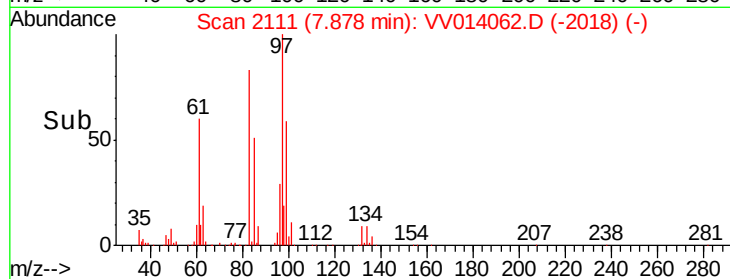
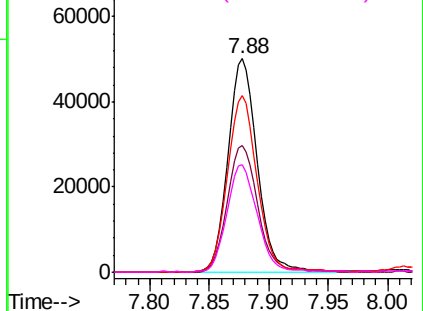
Abundance

Ion 96.95 (96.65 to 97.65): VV014046.D (-2094) (-)

Ion 99.05 (98.75 to 99.75): VV014046.D (-2094) (-)

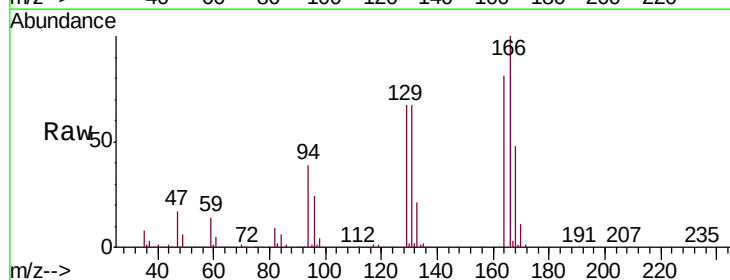
Ion 82.95 (82.65 to 83.65): VV014046.D (-2094) (-)

Ion 85.00 (84.70 to 85.70): VV014046.D (-2094) (-)



#47
Tetrachloroethene
Concen: 4.917 ug/L
RT: 8.01 min Scan# 2153
Delta R.T. -0.00 min
Lab File: VV014062.D
Acq: 16 Dec 2019 10:25

Tgt Ion:	164	Resp:	112506
Ion	Ratio	Lower	Upper
164	100		
129	82.2	60.3	112.1
131	82.6	59.9	111.3
166	123.1	89.1	165.5



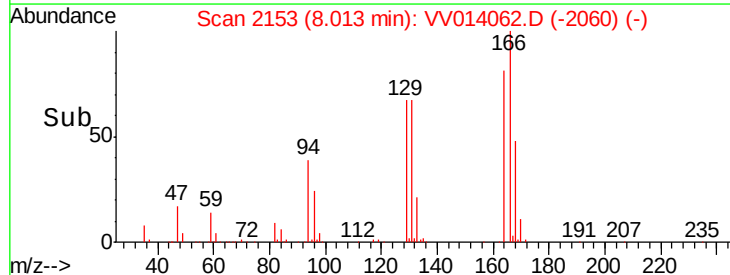
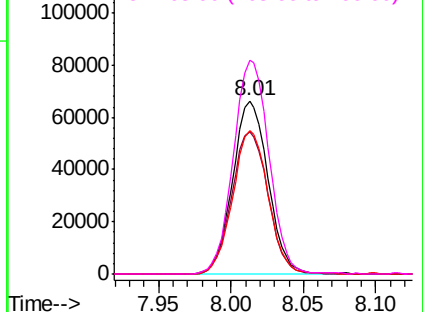
Abundance

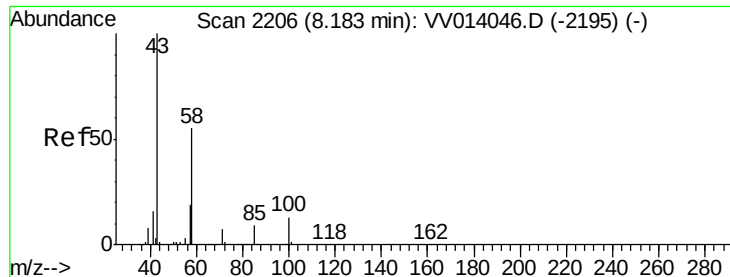
Ion 163.90 (163.60 to 164.60): VV014046.D (-2138) (-)

Ion 128.95 (128.65 to 129.65): VV014046.D (-2138) (-)

Ion 130.95 (130.65 to 131.65): VV014046.D (-2138) (-)

Ion 165.90 (165.60 to 166.60): VV014046.D (-2138) (-)

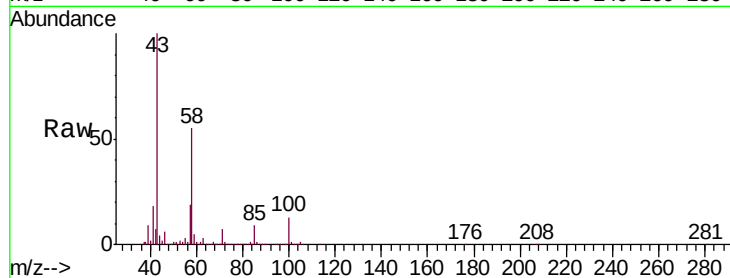




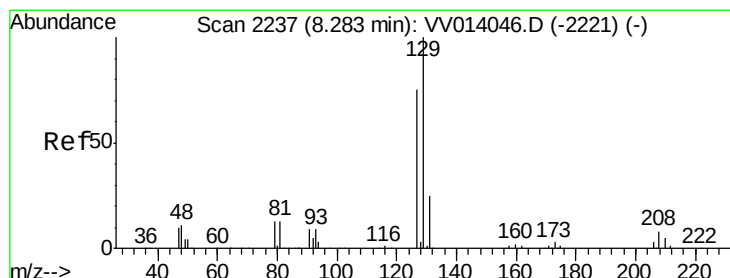
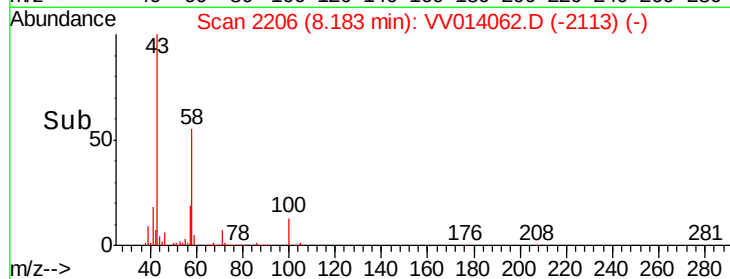
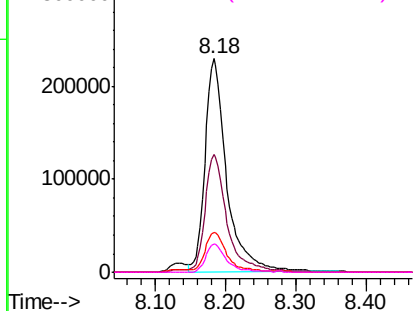
#48
2-Hexanone
Concen: 48.260 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. -0.00 min
Lab File: VV014062.D
Acq: 16 Dec 2019 10:25

Instrument :
MSVOA_V
ClientSampleId :
BFB42

Tgt Ion: 43 Resp: 493460
Ion Ratio Lower Upper
43 100
58 54.3 43.2 64.8
57 18.5 15.4 23.2
100 12.5 10.4 15.6

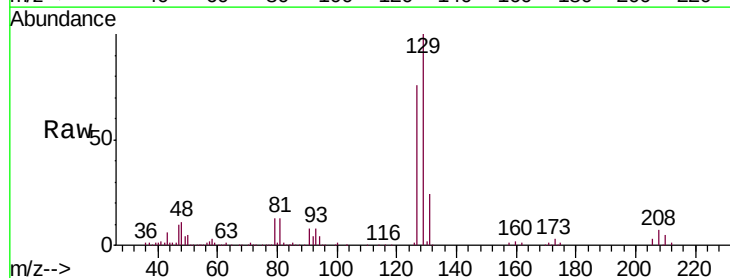


Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0

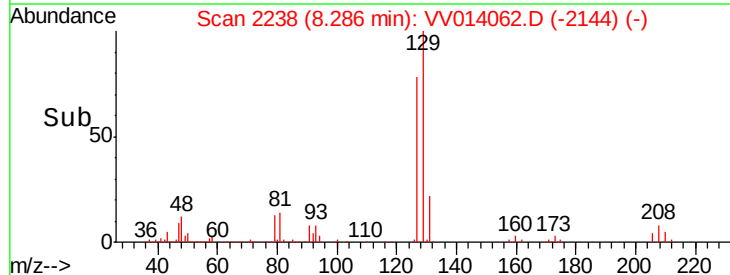
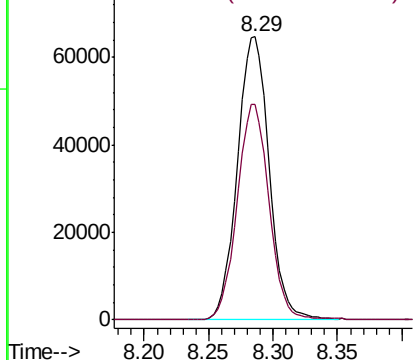


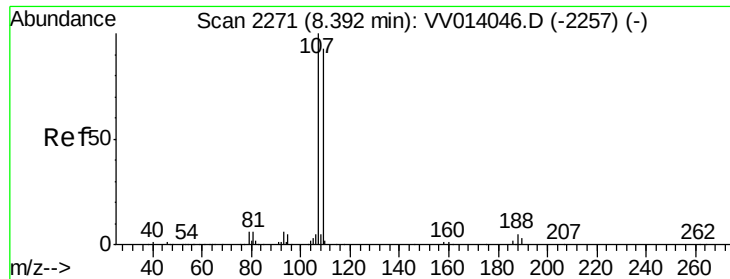
#49
Dibromochloromethane
Concen: 4.949 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VV014062.D
Acq: 16 Dec 2019 10:25

Tgt Ion: 129 Resp: 111061
Ion Ratio Lower Upper
129 100
127 76.3 55.7 103.5



Abundance Ion 128.95 (128.65 to 129.65): VV0
Ion 126.90 (126.60 to 127.60): VV0

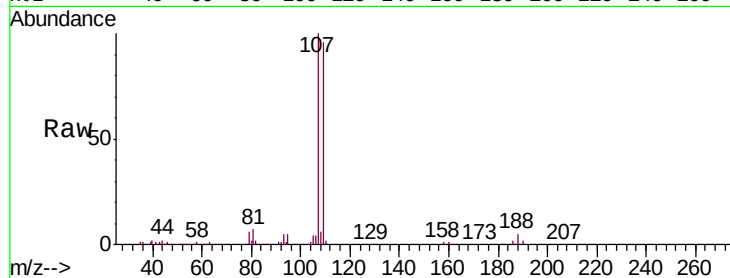




#50
1,2-Dibromoethane
Concen: 4.816 ug/L
RT: 8.39 min Scan# 2271
Delta R.T. -0.00 min
Lab File: VV014062.D
Acq: 16 Dec 2019 10:25

Instrument :
MSVOA_V
ClientSampleId :
BFB42

Tgt Ion	Ratio	Lower	Upper
107	100		
109	96.4	65.2	121.0
188	5.0	4.2	6.2

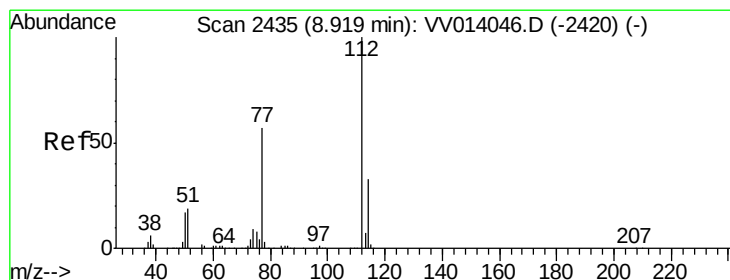
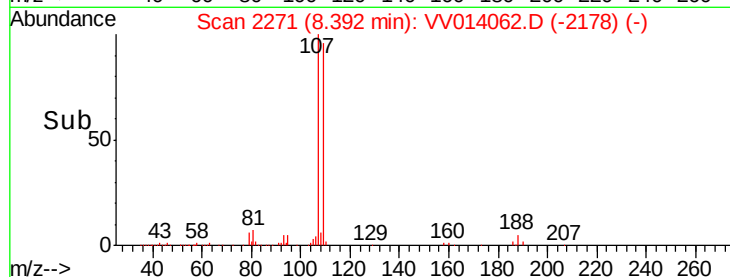
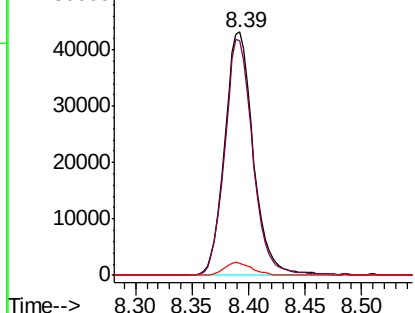


Abundance

Ion 106.95 (106.65 to 107.65): V

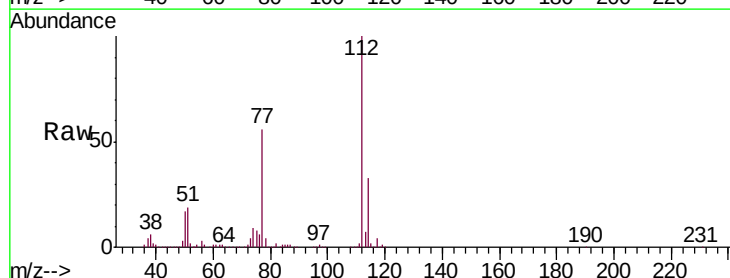
Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51
Chlorobenzene
Concen: 4.669 ug/L
RT: 8.92 min Scan# 2435
Delta R.T. -0.00 min
Lab File: VV014062.D
Acq: 16 Dec 2019 10:25

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.5	21.8	40.6
77	55.8	44.2	66.4

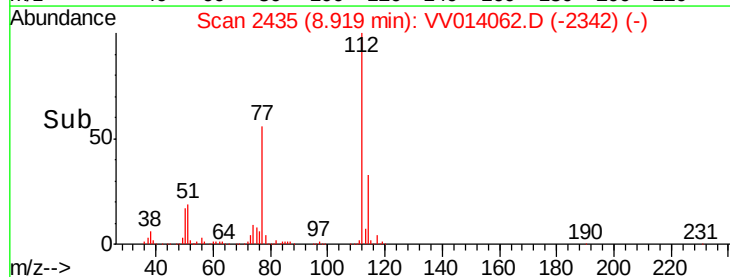
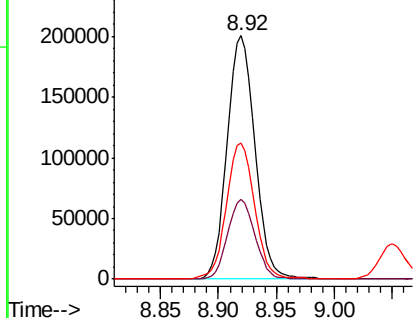


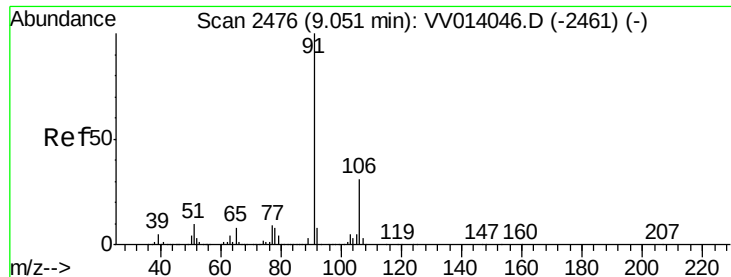
Abundance

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: 4.783 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. -0.00 min

Lab File: VV014062.D

Acq: 16 Dec 2019 10:25

Instrument :

MSVOA_V

ClientSampleId :

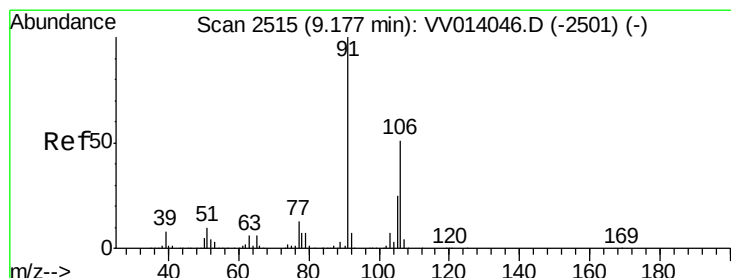
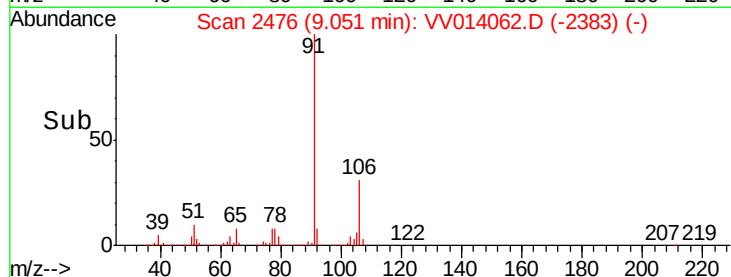
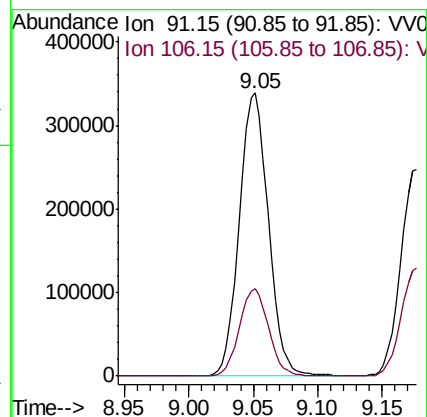
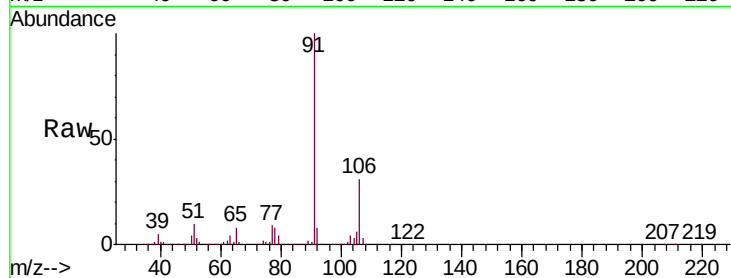
BFB42

Tgt Ion: 91 Resp: 532426

Ion Ratio Lower Upper

91 100

106 30.7 22.1 41.1



#53

m,p-xylene

Concen: 4.945 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. -0.00 min

Lab File: VV014062.D

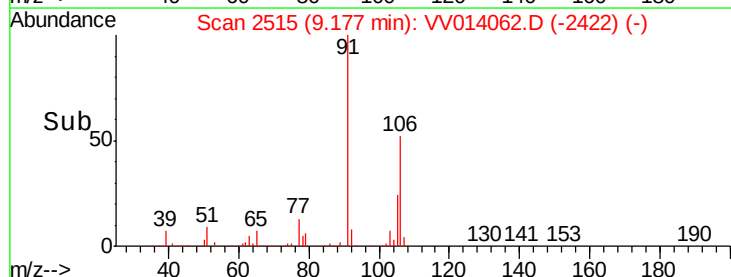
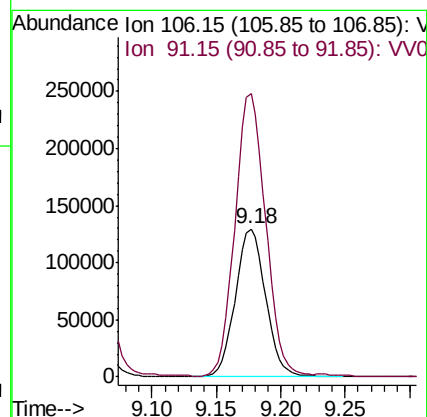
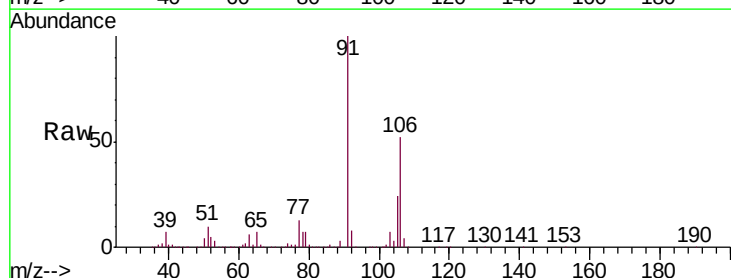
Acq: 16 Dec 2019 10:25

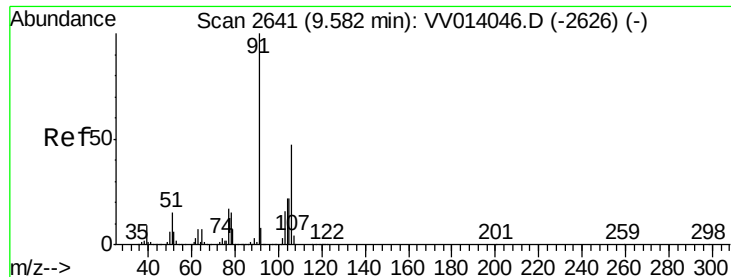
Tgt Ion: 106 Resp: 209829

Ion Ratio Lower Upper

106 100

91 191.0 139.9 259.9





#54

o-xylene

Concen: 4.745 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. -0.00 min

Lab File: VV014062.D

Acq: 16 Dec 2019 10:25

Instrument :

MSVOA_V

ClientSampleId :

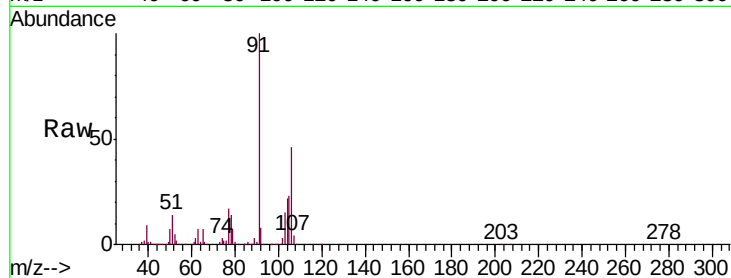
BFB42

Tgt Ion:106 Resp: 196551

Ion Ratio Lower Upper

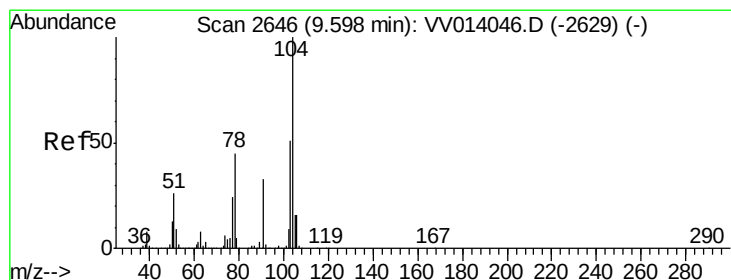
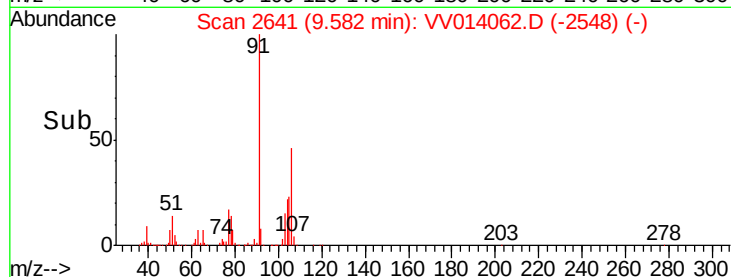
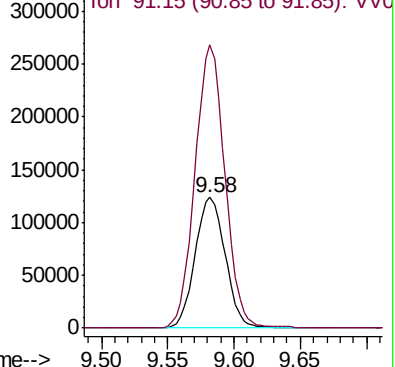
106 100

91 216.8 145.5 270.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 4.913 ug/L

RT: 9.60 min Scan# 2646

Delta R.T. -0.00 min

Lab File: VV014062.D

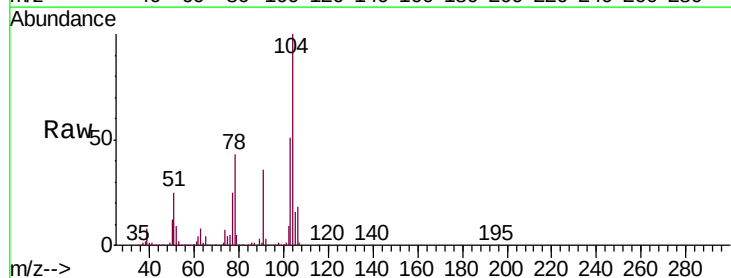
Acq: 16 Dec 2019 10:25

Tgt Ion:104 Resp: 351434

Ion Ratio Lower Upper

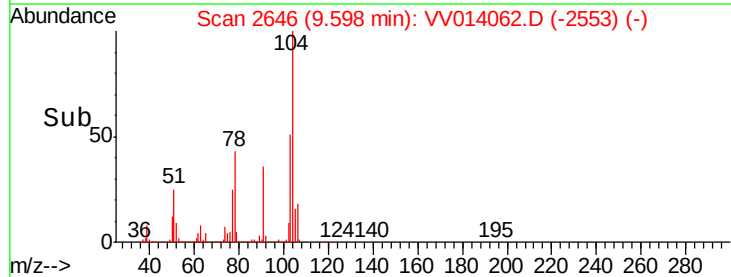
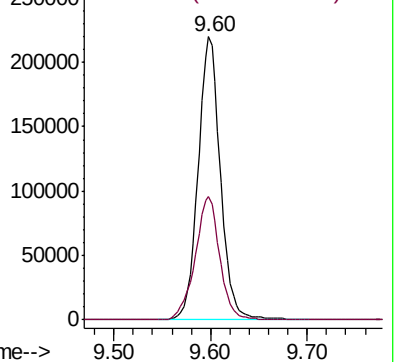
104 100

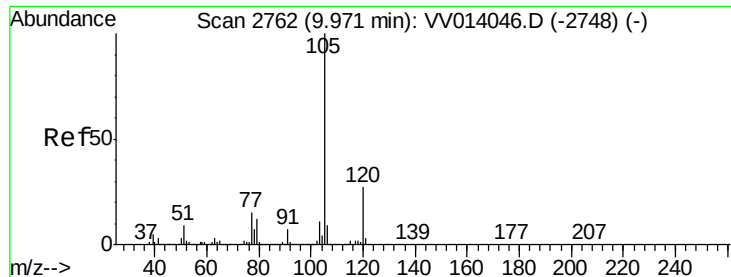
78 43.5 31.0 57.6



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 4.894 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. -0.00 min

Lab File: VV014062.D

Acq: 16 Dec 2019 10:25

Instrument :

MSVOA_V

ClientSampleId :

BFB42

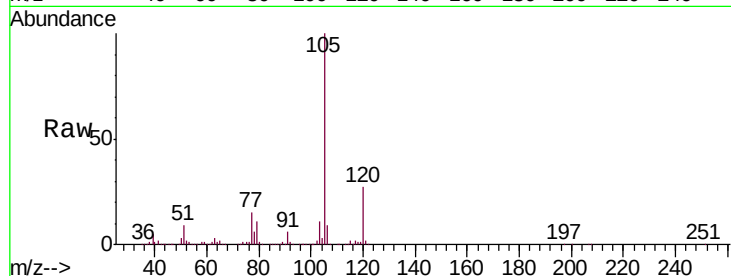
Tgt Ion: 105 Resp: 552466

Ion Ratio Lower Upper

105 100

120 26.7 21.3 31.9

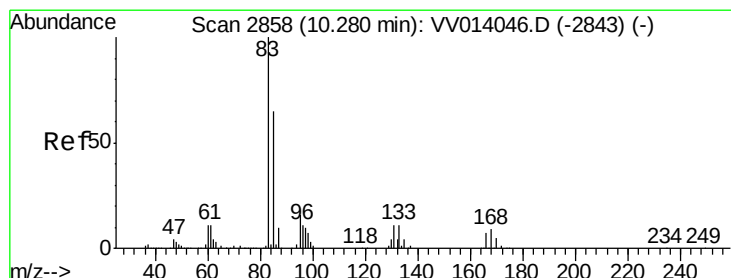
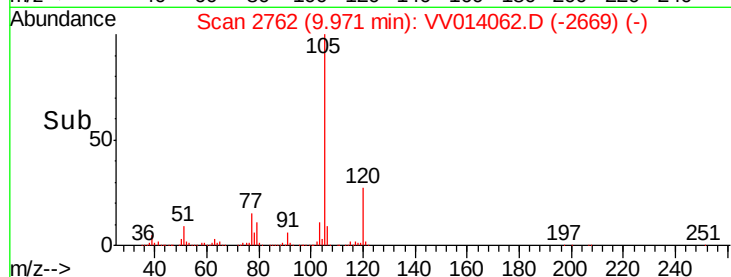
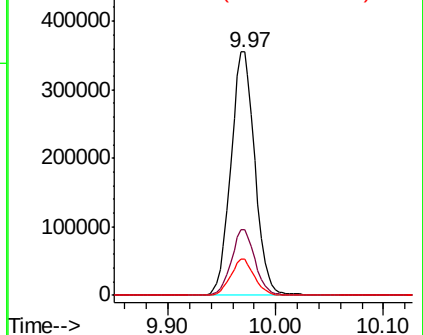
77 14.7 12.1 18.1



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: 4.835 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. -0.00 min

Lab File: VV014062.D

Acq: 16 Dec 2019 10:25

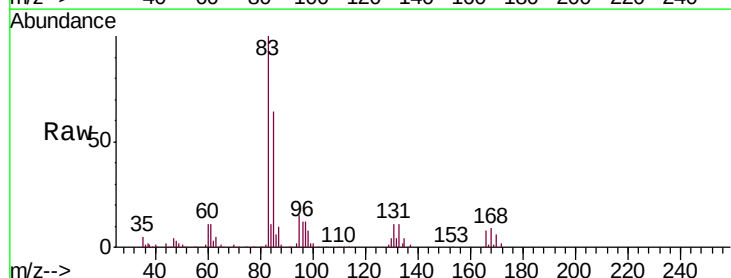
Tgt Ion: 83 Resp: 92961

Ion Ratio Lower Upper

83 100

85 64.1 45.1 83.7

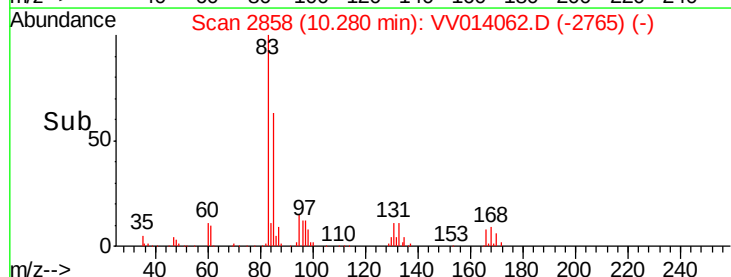
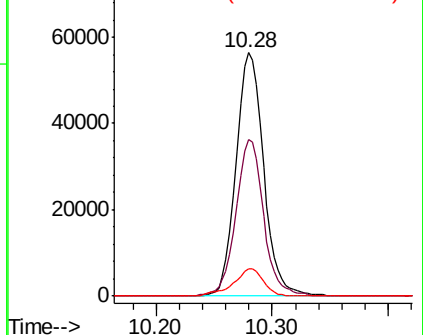
131 11.2 9.3 13.9

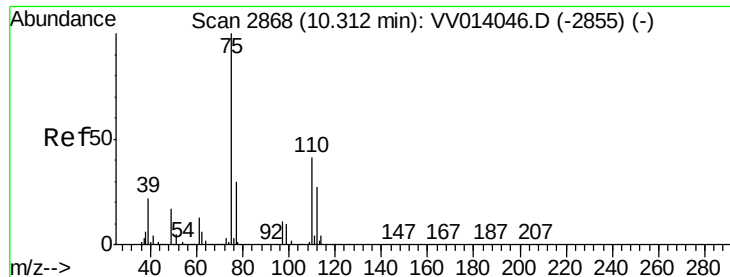


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.711 ug/L

RT: 10.31 min Scan# 2869

Delta R.T. 0.00 min

Lab File: VV014062.D

Acq: 16 Dec 2019 10:25

Instrument :

MSVOA_V

ClientSampleId :

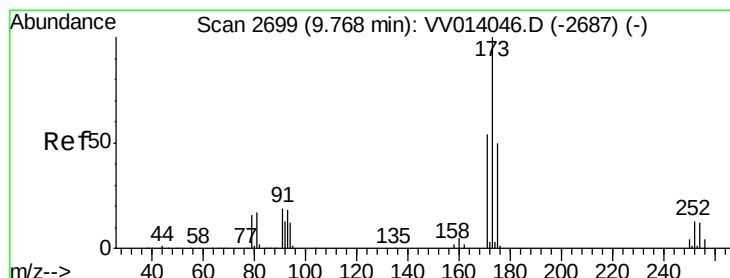
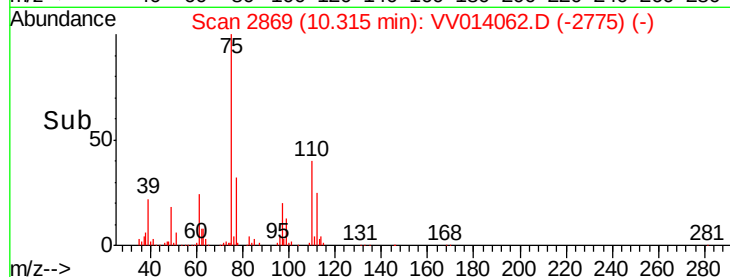
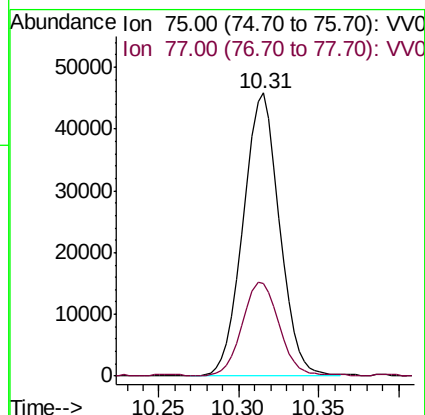
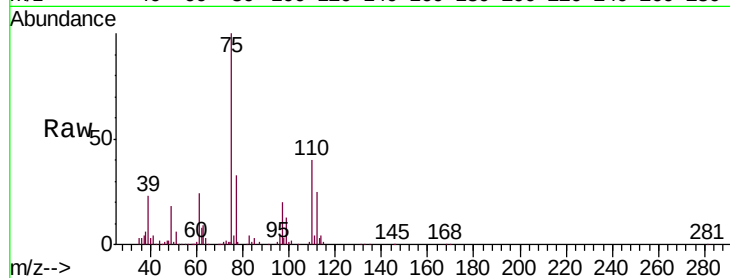
BFB42

Tgt Ion: 75 Resp: 70991

Ion Ratio Lower Upper

75 100

77 33.1 25.7 38.5



#61

Bromoform

Concen: 4.885 ug/L

RT: 9.77 min Scan# 2699

Delta R.T. -0.00 min

Lab File: VV014062.D

Acq: 16 Dec 2019 10:25

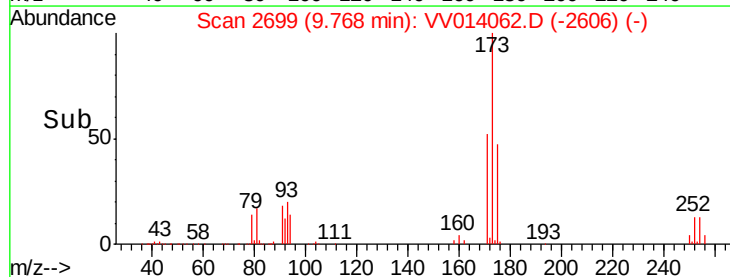
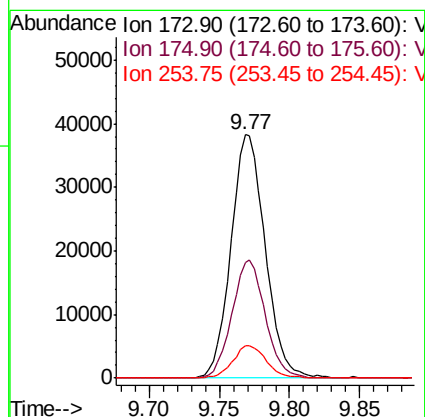
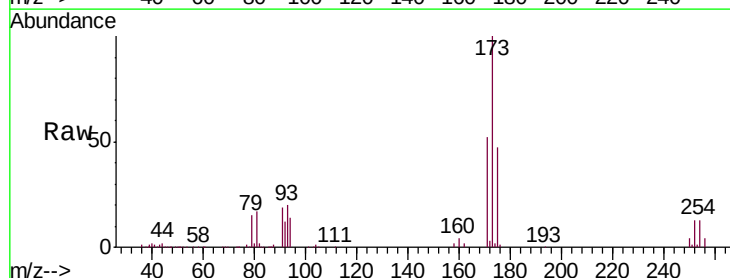
Tgt Ion: 173 Resp: 65019

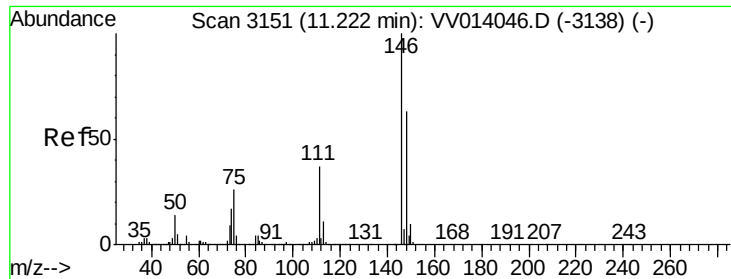
Ion Ratio Lower Upper

173 100

175 47.0 39.1 58.7

254 13.2 10.4 15.6

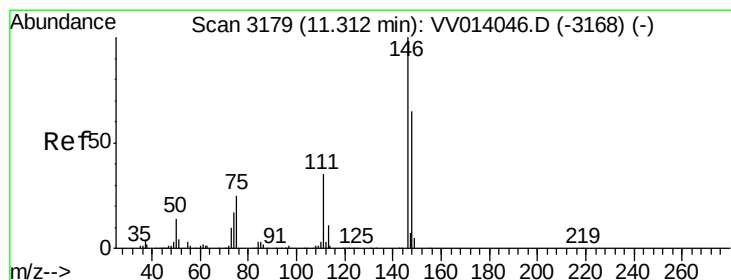
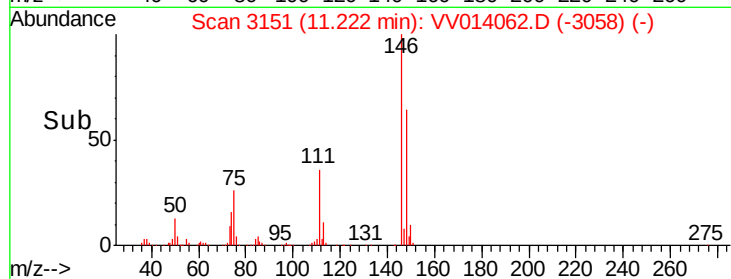
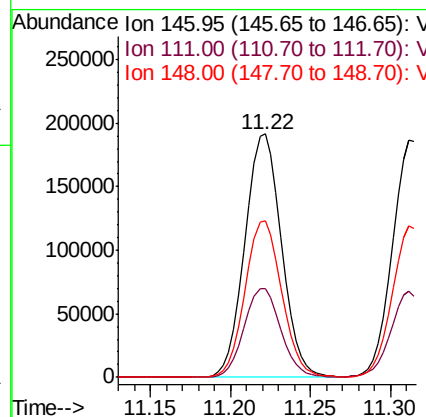
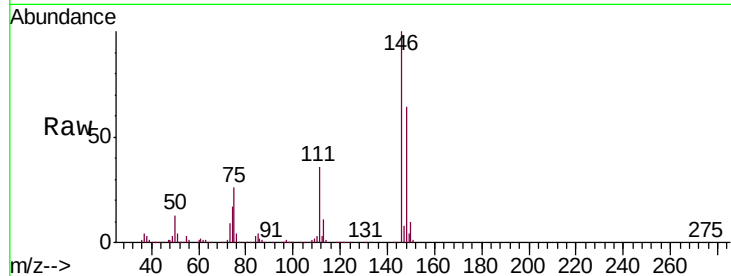




#62
 1,3-Dichlorobenzene
 Concen: 4.852 ug/L
 RT: 11.22 min Scan# 3151
 Delta R.T. -0.00 min
 Lab File: VV014062.D
 Acq: 16 Dec 2019 10:25

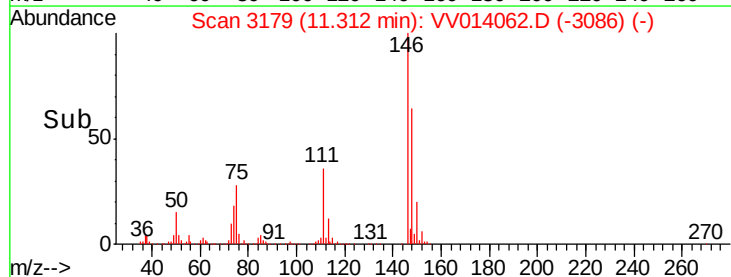
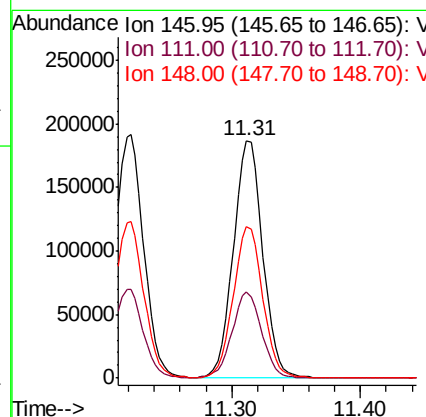
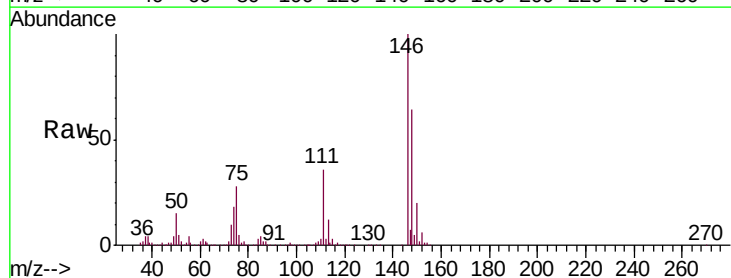
Instrument :
 MSVOA_V
 ClientSampleId :
 BFB42

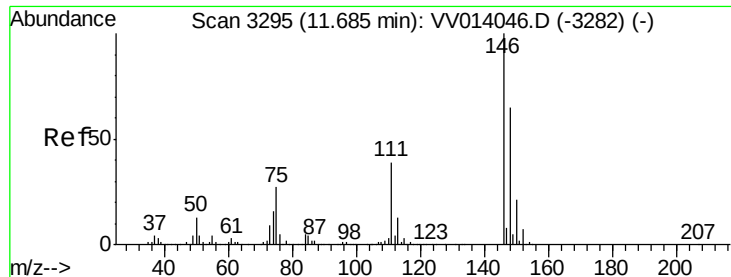
Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.3	25.6	47.6
148	64.4	44.7	82.9



#63
 1,4-Dichlorobenzene
 Concen: 4.707 ug/L
 RT: 11.31 min Scan# 3179
 Delta R.T. -0.00 min
 Lab File: VV014062.D
 Acq: 16 Dec 2019 10:25

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.3	25.0	46.4
148	64.0	45.4	84.2

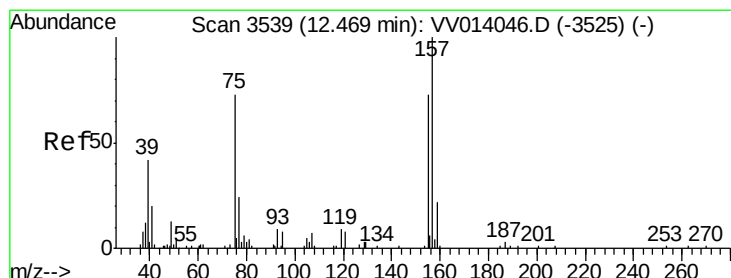
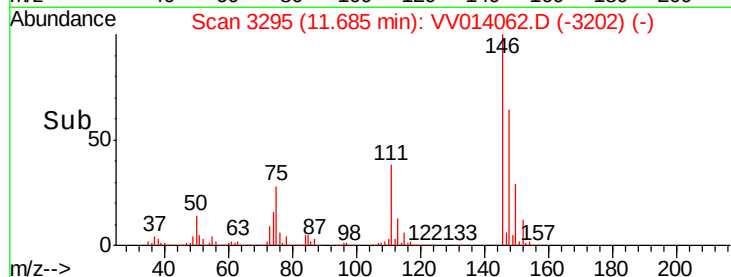
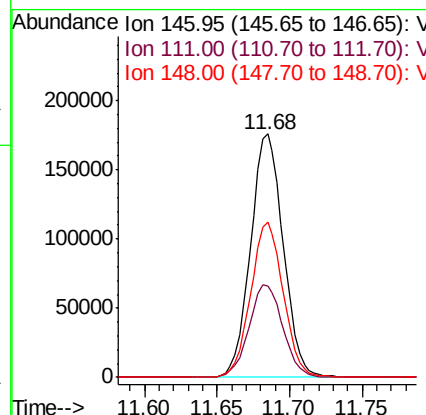
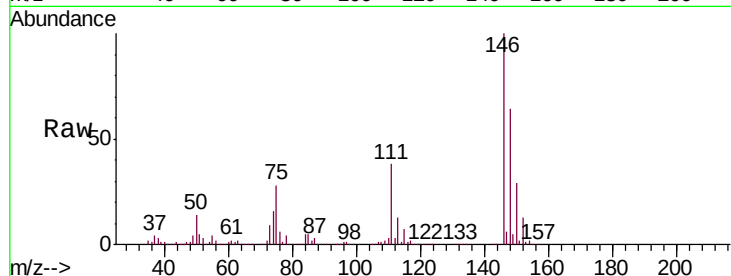




#65
 1,2-Dichlorobenzene
 Concen: 4.844 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. -0.00 min
 Lab File: VV014062.D
 Acq: 16 Dec 2019 10:25

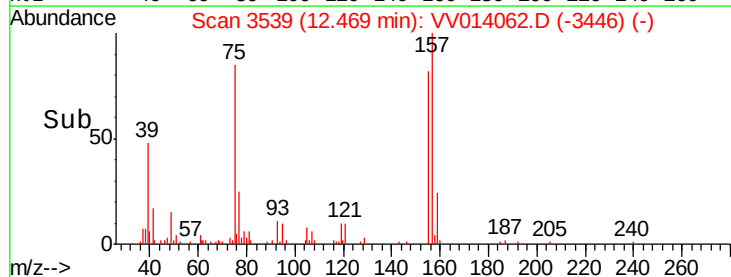
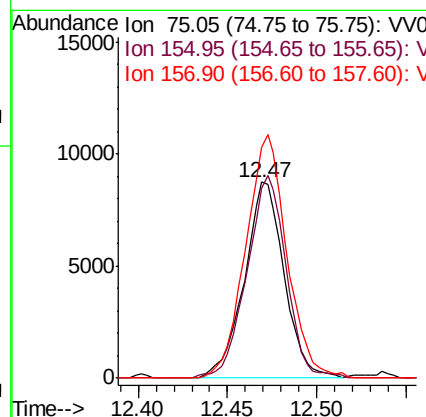
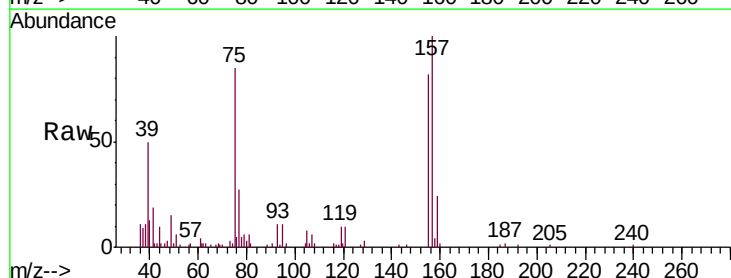
Instrument :
 MSVOA_V
 ClientSampleId :
 BFB42

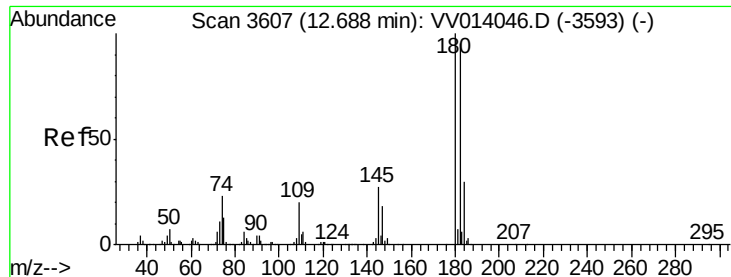
Tgt Ion:146 Resp: 276173
 Ion Ratio Lower Upper
 146 100
 111 37.6 31.3 46.9
 148 63.8 52.2 78.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.095 ug/L
 RT: 12.47 min Scan# 3539
 Delta R.T. -0.00 min
 Lab File: VV014062.D
 Acq: 16 Dec 2019 10:25

Tgt Ion: 75 Resp: 13570
 Ion Ratio Lower Upper
 75 100
 155 96.9 73.4 110.0
 157 118.1 98.7 148.1

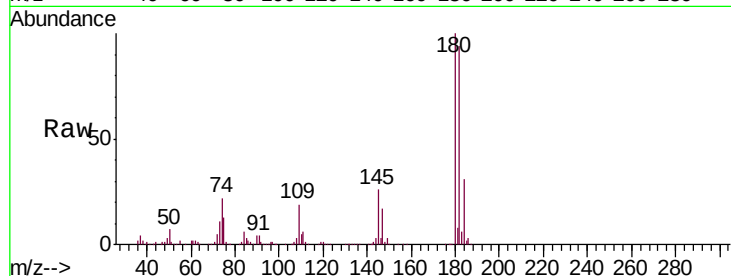




#67
 1,3,5-Trichlorobenzene
 Concen: 5.000 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. -0.00 min
 Lab File: VV014062.D
 Acq: 16 Dec 2019 10:25

Instrument :
 MSVOA_V
 ClientSampled :
 BFB42

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.3	74.8	112.2
184	30.2	23.2	34.8
145	26.1	21.3	31.9



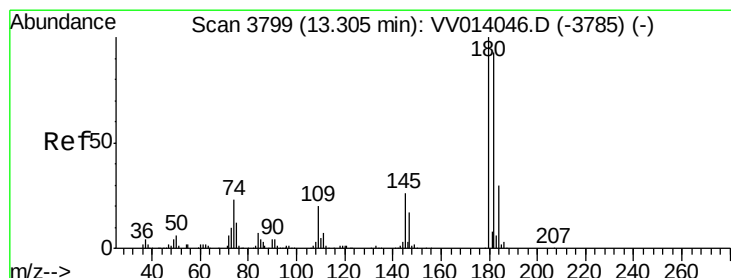
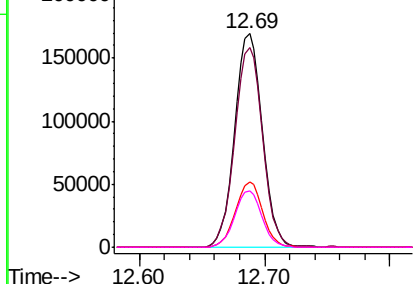
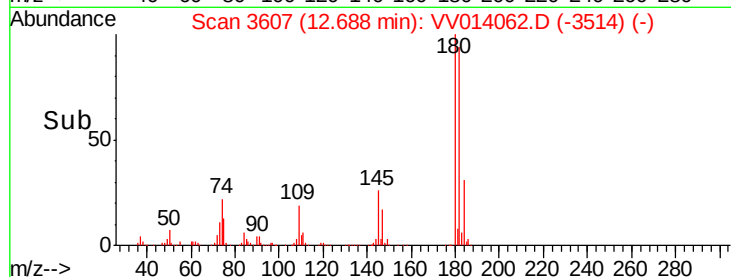
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

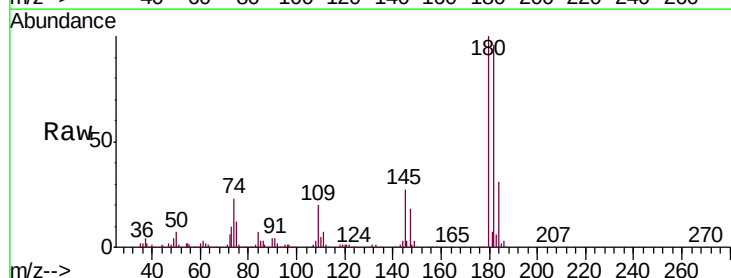
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.572 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. -0.00 min
 Lab File: VV014062.D
 Acq: 16 Dec 2019 10:25

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.2	114.4
145	27.1	21.0	31.6

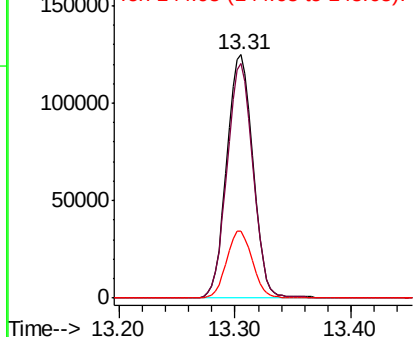
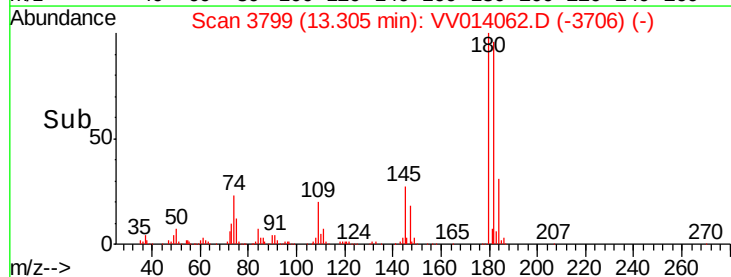


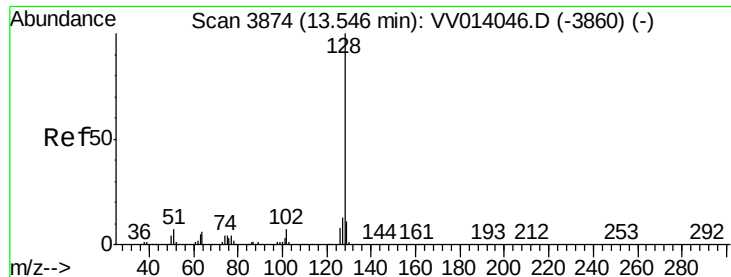
Abundance

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: 3.928 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. -0.00 min

Lab File: VV014062.D

Acq: 16 Dec 2019 10:25

Instrument :

MSVOA_V

ClientSampleId :

BFB42

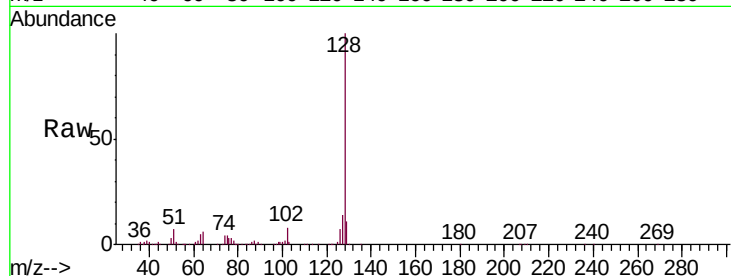
Tgt Ion:128 Resp: 227655

Ion Ratio Lower Upper

128 100

129 10.9 8.6 12.8

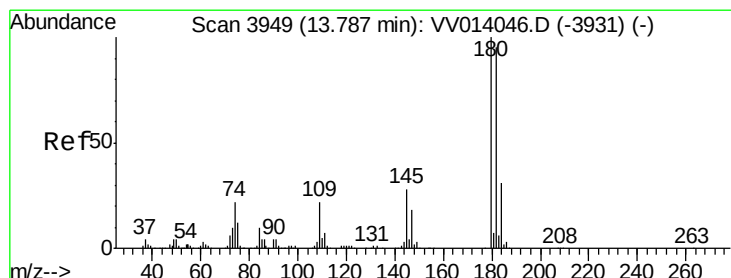
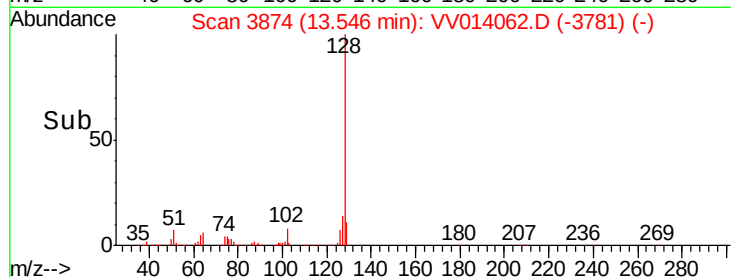
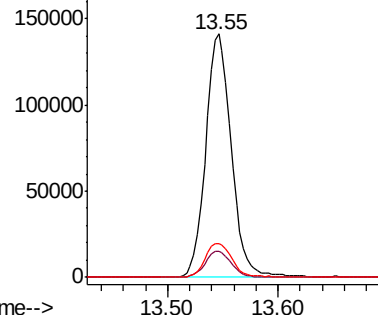
127 14.8 10.6 16.0



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: 4.678 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. -0.00 min

Lab File: VV014062.D

Acq: 16 Dec 2019 10:25

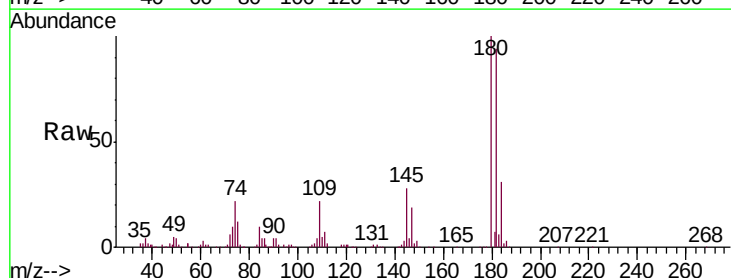
Tgt Ion:180 Resp: 181359

Ion Ratio Lower Upper

180 100

182 93.4 78.5 117.7

145 28.2 23.8 35.8



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

