

Data File : VV014026.D
Acq On : 12 Dec 2019 09:32
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BFB81

Quant Time: Dec 13 06:12:34 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM120219WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Dec 12 13:17:23 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	713440	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	697907	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	370209	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	226556	54.91	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	109.82%
7) Chloroethane-d5	1.57	69	213553	49.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	99.16%
11) 1,1-Dichloroethene-d2	2.13	63	442096	48.45	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.90%
21) 2-Butanone-d5	3.92	46	297940	102.59	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	102.59%
24) Chloroform-d	4.39	84	463231	53.46	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	106.92%
26) 1,2-Dichloroethane-d4	5.07	65	281551	51.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.56%
32) Benzene-d6	5.09	84	919573	50.85	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.70%
36) 1,2-Dichloropropane-d6	6.11	67	286972	52.86	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	105.72%
41) Toluene-d8	7.35	98	865310	52.49	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	104.98%
43) trans-1,3-Dichloropropene-	7.66	79	128091	48.49	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.98%
47) 2-Hexanone-d5	8.13	63	185787	91.66	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	91.66%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	359885	45.78	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	91.56%
64) 1,2-Dichlorobenzene-d4	11.67	152	347145	47.74	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.48%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	343416	54.060	ug/L	97
3) Chloromethane	1.25	50	357075	61.483	ug/L	99
5) Vinyl chloride	1.32	62	338809	55.935	ug/L	99
6) Bromomethane	1.51	94	147454	40.264	ug/L	98
8) Chloroethane	1.59	64	200259	49.688	ug/L	100
9) Trichlorofluoromethane	1.76	101	459683	48.794	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	271944	50.682	ug/L	97
12) 1,1-Dichloroethene	2.14	96	249177	48.076	ug/L	98
13) Acetone	2.18	43	477964	112.303	ug/L	97
14) Carbon disulfide	2.31	76	669042	48.949	ug/L	100
15) Methyl Acetate	2.45	43	290996	55.478	ug/L	99
16) Methylene chloride	2.53	84	297705	55.158	ug/L	95
17) trans-1,2-Dichloroethene	2.79	96	261891	51.659	ug/L	96
18) Methyl tert-butyl Ether	2.80	73	800343	54.400	ug/L	99
19) 1,1-Dichloroethane	3.22	63	508987	55.726	ug/L	98
20) cis-1,2-Dichloroethene	3.96	96	289823	52.791	ug/L	98
22) 2-Butanone	4.00	43	502295	122.958	ug/L	94

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Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	159640	52.631	ug/L	97
25) Chloroform	4.42	83	520248	53.280	ug/L	99
27) 1,2-Dichloroethane	5.17	62	385409	54.777	ug/L	99
29) Cyclohexane	4.72	56	423206	51.902	ug/L	97
30) 1,1,1-Trichloroethane	4.65	97	438727	52.073	ug/L	99
31) Carbon tetrachloride	4.87	117	393612	52.299	ug/L	99
33) Benzene	5.14	78	1115546	53.674	ug/L	100
34) Trichloroethene	5.95	95	299505	53.729	ug/L	99
35) Methylcyclohexane	6.17	83	447477	53.502	ug/L	98
37) 1,2-Dichloropropane	6.21	63	288722	57.397	ug/L	99
38) Bromodichloromethane	6.55	83	387909	54.377	ug/L	99
39) cis-1,3-Dichloropropene	7.06	75	433714	54.769	ug/L	98
40) 4-Methyl-2-pentanone	7.26	43	750011	114.662	ug/L	99
42) Toluene	7.42	91	1204247	56.157	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	383971	53.546	ug/L	99
45) 1,1,2-Trichloroethane	7.87	97	281157	56.310	ug/L	96
46) Tetrachloroethene	8.01	164	267961	53.271	ug/L	97
48) 2-Hexanone	8.17	43	636724	121.686	ug/L	93
49) Dibromochloromethane	8.28	129	326122	53.432	ug/L	99
50) 1,2-Dibromoethane	8.39	107	297087	54.012	ug/L	99
51) Chlorobenzene	8.92	112	792285	53.553	ug/L	99
52) Ethylbenzene	9.05	91	1304325	55.174	ug/L	100
53) m,p-Xylene	9.18	106	513603	56.182	ug/L	97
54) o-xylene	9.58	106	489496	54.764	ug/L	100
55) Styrene	9.60	104	856409	55.534	ug/L	98
56) Isopropylbenzene	9.97	105	1298233	54.035	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.28	83	406531	50.013	ug/L	97
59) 1,2,3-Trichloropropane	10.31	75	354150	52.026	ug/L	99
61) Bromoform	9.77	173	254731	56.248	ug/L	99
62) 1,3-Dichlorobenzene	11.22	146	650336	53.537	ug/L	99
63) 1,4-Dichlorobenzene	11.31	146	642134	51.133	ug/L	100
65) 1,2-Dichlorobenzene	11.68	146	645161	53.095	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.47	75	80459	47.646	ug/L	99
67) 1,3,5-Trichlorobenzene	12.69	180	499063	50.591	ug/L	100
68) 1,2,4-trichlorobenzene	13.31	180	379005	42.580	ug/L	99
69) Naphthalene	13.55	128	723157	30.942	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	414364	44.515	ug/L	99

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

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ClientSampleId :
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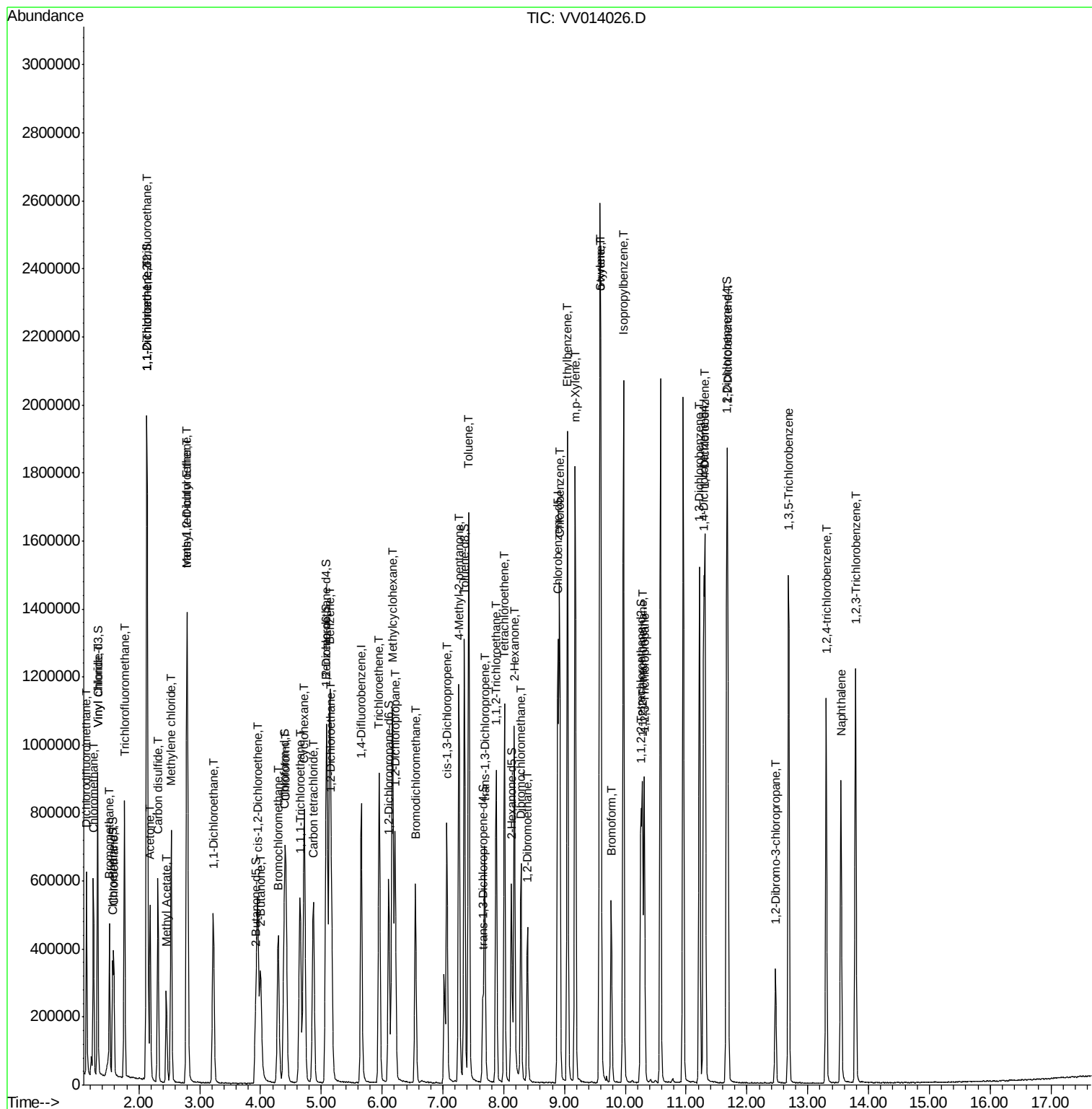
Quant Time: Dec 13 06:12:34 2019

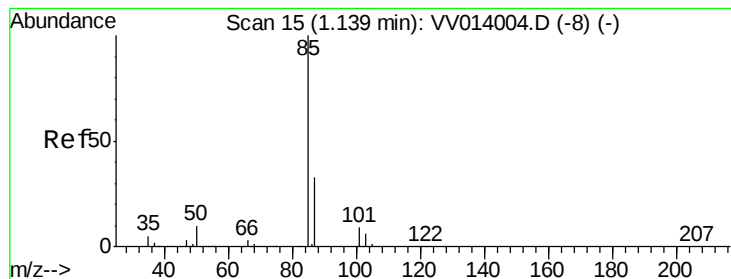
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\SOMVLM120219WMA.M

Quant Title : VOC Analysis

QLast Update : Thu Dec 12 13:17:23 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 54.060 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV014026.D

Acq: 12 Dec 2019 09:32

Instrument :

MSVOA_V

ClientSampleId :

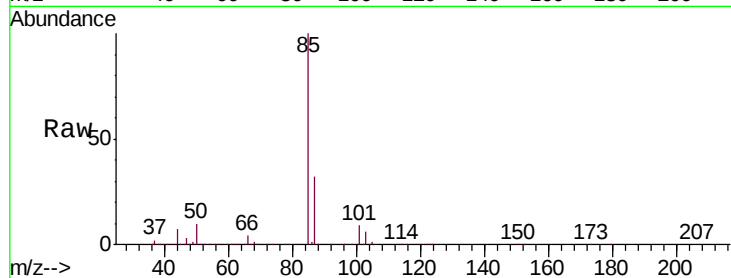
BFB81

Tgt Ion: 85 Resp: 343416

Ion Ratio Lower Upper

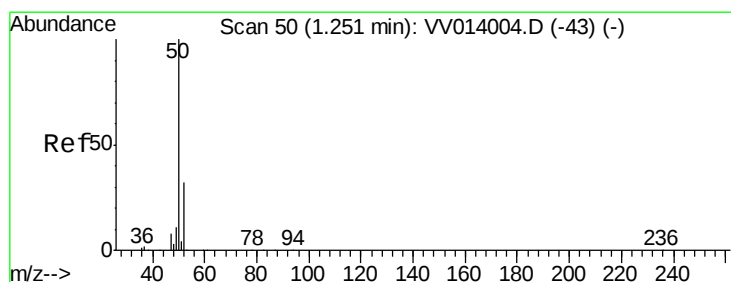
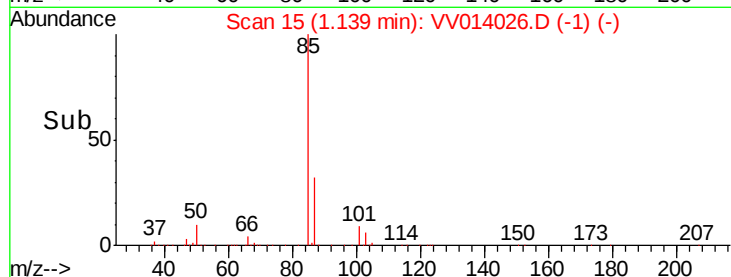
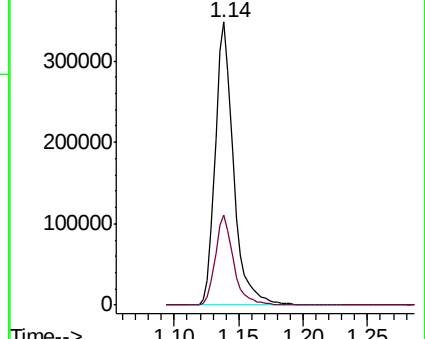
85 100

87 31.7 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VV014004.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV014004.D (-8) (-)



#3

Chloromethane

Concen: 61.483 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV014026.D

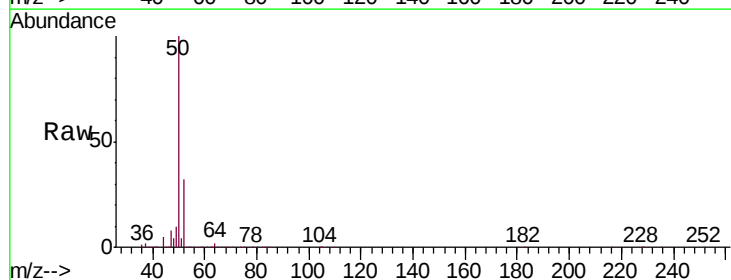
Acq: 12 Dec 2019 09:32

Tgt Ion: 50 Resp: 357075

Ion Ratio Lower Upper

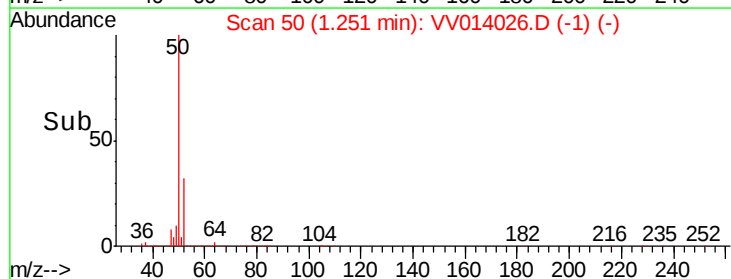
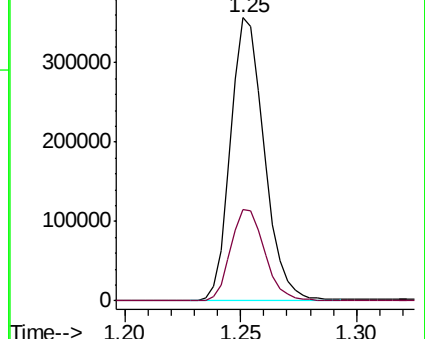
50 100

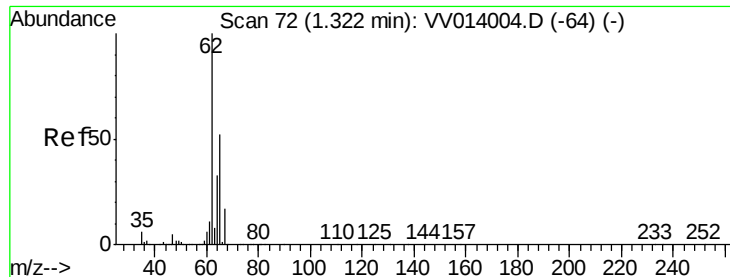
52 32.5 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VV014004.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV014004.D (-43) (-)





#5

Vinyl chloride

Concen: 55.935 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV014026.D

Acq: 12 Dec 2019 09:32

Instrument :

MSVOA_V

ClientSampleId :

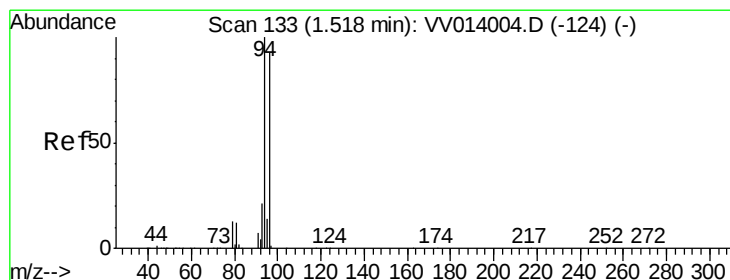
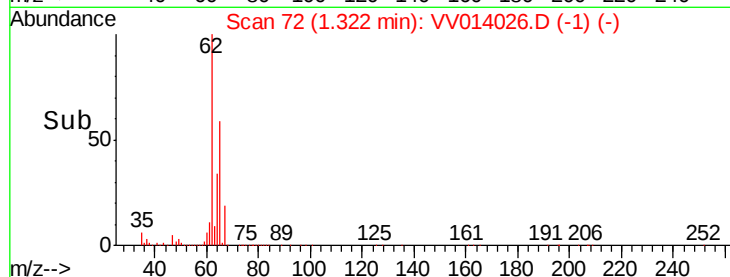
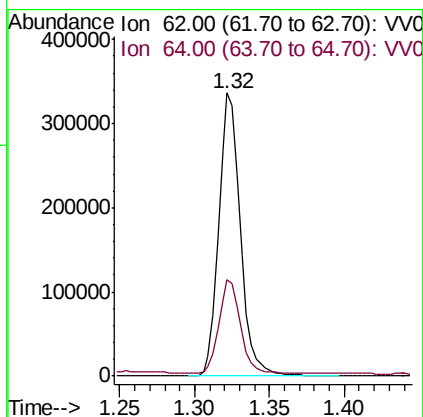
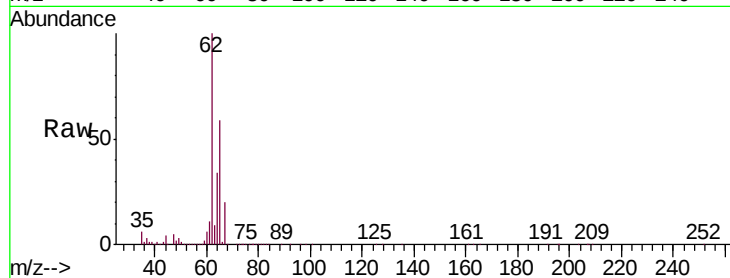
BFB81

Tgt Ion: 62 Resp: 338809

Ion Ratio Lower Upper

62 100

64 33.9 24.1 44.8



#6

Bromomethane

Concen: 40.264 ug/L

RT: 1.51 min Scan# 132

Delta R.T. -0.00 min

Lab File: VV014026.D

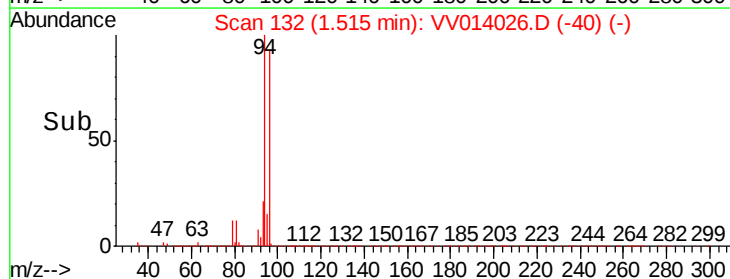
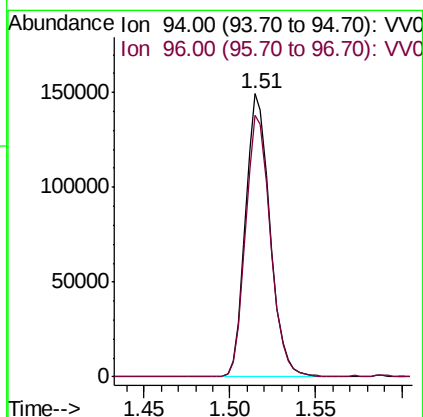
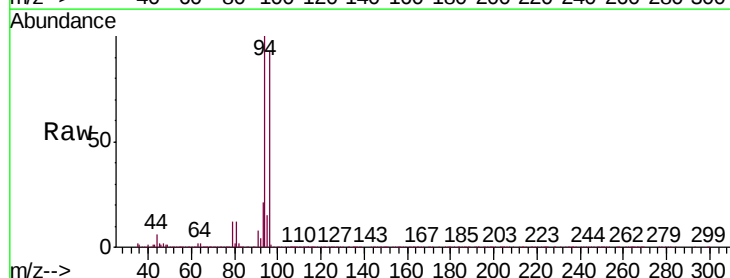
Acq: 12 Dec 2019 09:32

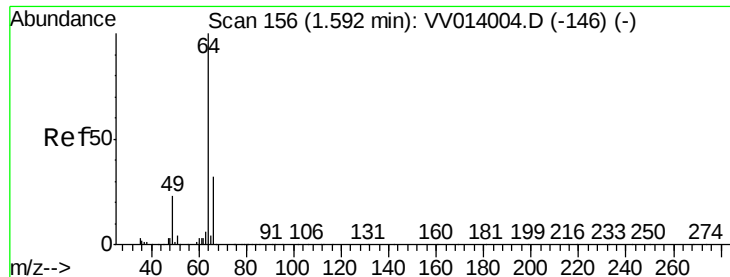
Tgt Ion: 94 Resp: 147454

Ion Ratio Lower Upper

94 100

96 92.6 66.2 123.0





#8

Chloroethane

Concen: 49.688 ug/L

RT: 1.59 min Scan# 155

Delta R.T. -0.00 min

Lab File: VV014026.D

Acq: 12 Dec 2019 09:32

Instrument :

MSVOA_V

ClientSampleId :

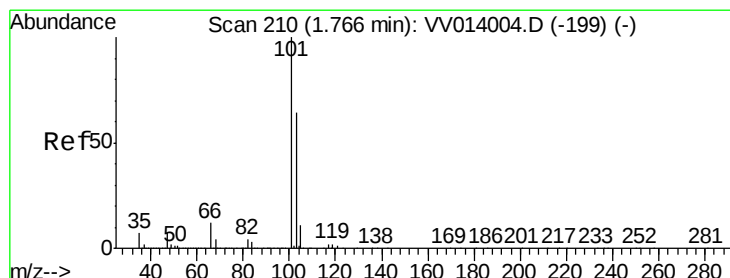
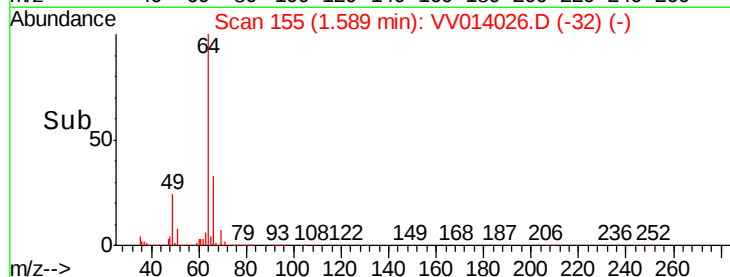
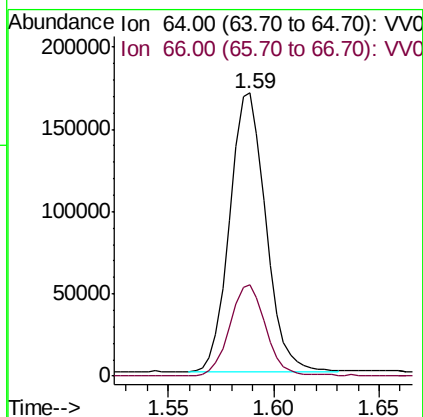
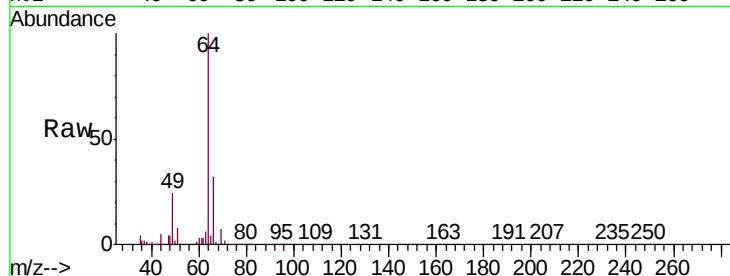
BFB81

Tgt Ion: 64 Resp: 200259

Ion Ratio Lower Upper

64 100

66 32.5 22.7 42.1



#9

Trichlorofluoromethane

Concen: 48.794 ug/L

RT: 1.76 min Scan# 209

Delta R.T. -0.00 min

Lab File: VV014026.D

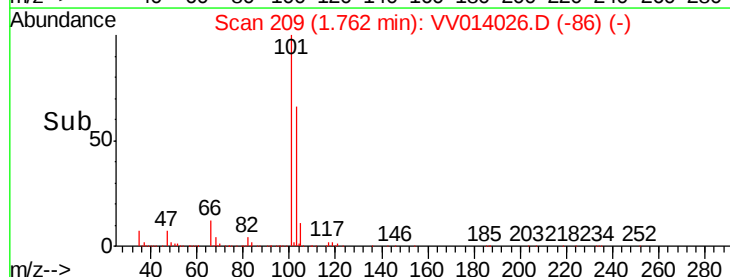
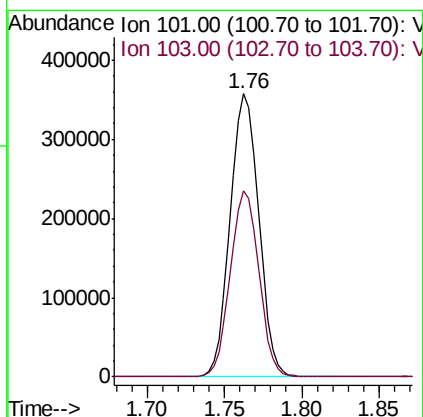
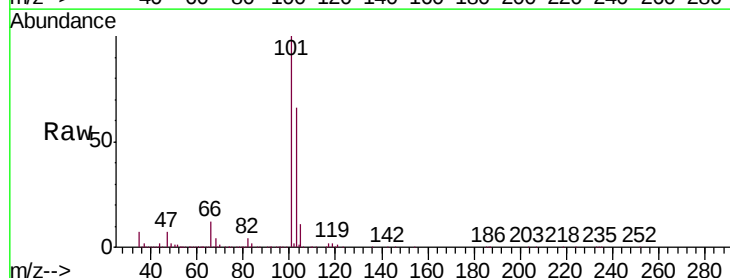
Acq: 12 Dec 2019 09:32

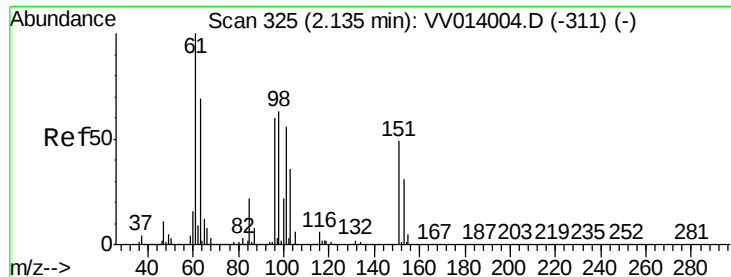
Tgt Ion: 101 Resp: 459683

Ion Ratio Lower Upper

101 100

103 65.4 51.9 77.9





#10

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

Concen: 50.682 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV014026.D

Acq: 12 Dec 2019 09:32

Instrument :

MSVOA_V

ClientSampleId :

BFB81

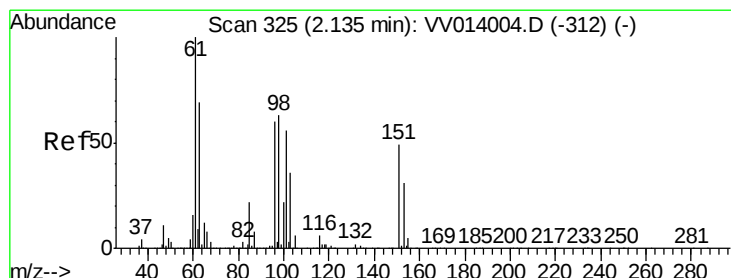
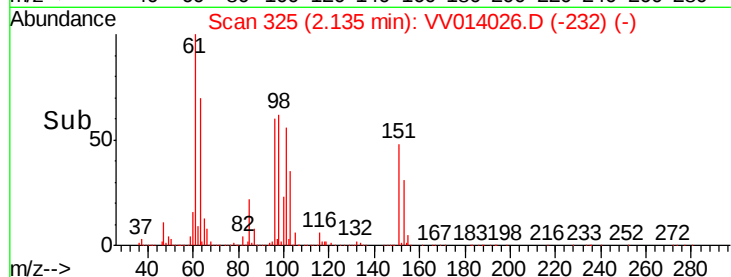
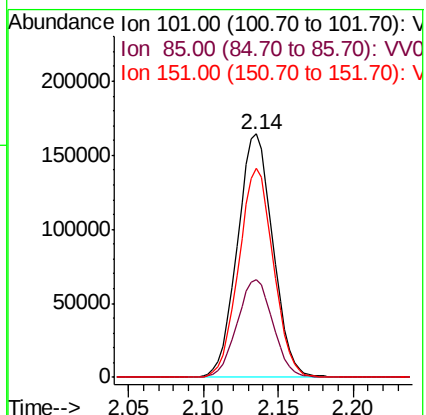
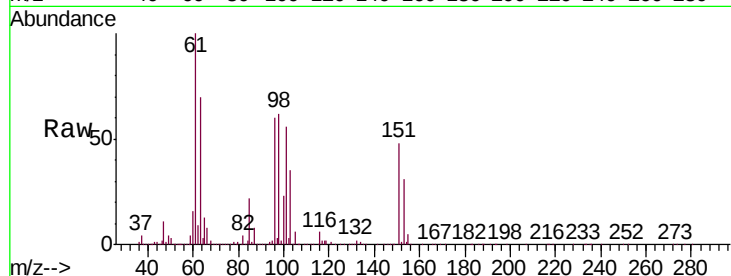
Tgt Ion: 101 Resp: 271944

Ion Ratio Lower Upper

101 100

85 40.5 32.5 48.7

151 83.6 69.8 104.6



#12

1,1-Dichloroethene

Concen: 48.076 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV014026.D

Acq: 12 Dec 2019 09:32

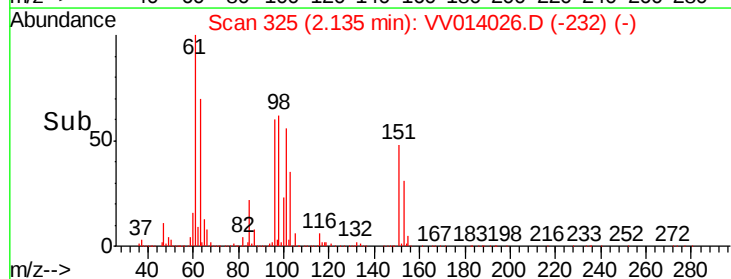
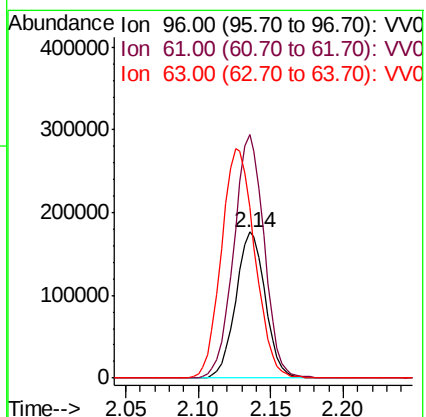
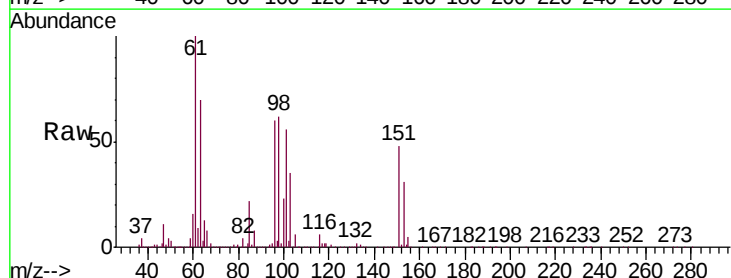
Tgt Ion: 96 Resp: 249177

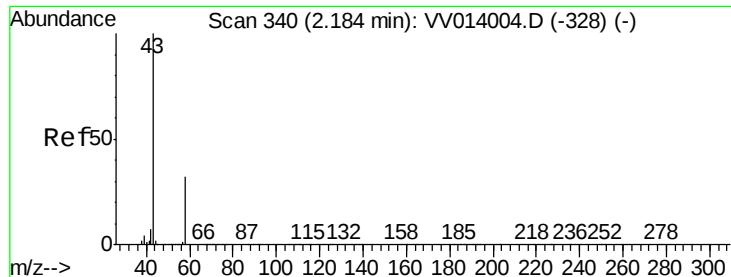
Ion Ratio Lower Upper

96 100

61 166.4 114.0 211.8

63 116.5 80.3 149.1





#13

Acetone

Concen: 112.303 ug/L

RT: 2.18 min Scan# 340

Delta R.T. -0.00 min

Lab File: VV014026.D

Acq: 12 Dec 2019 09:32

Instrument :

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ClientSampleId :

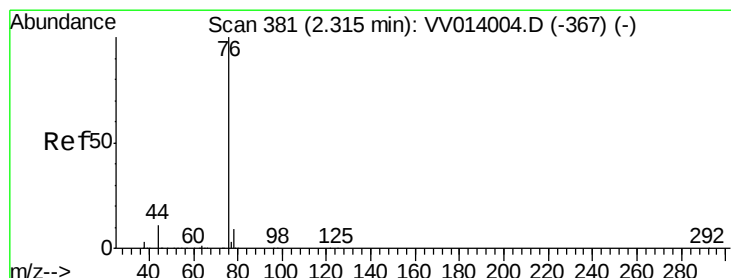
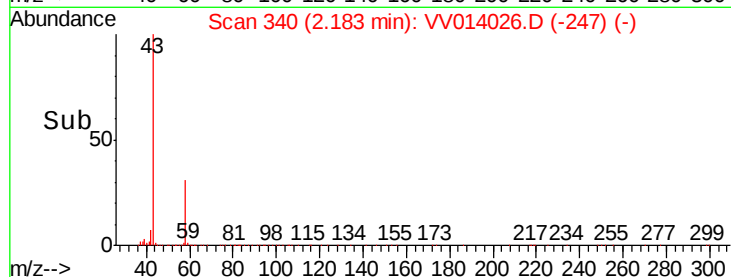
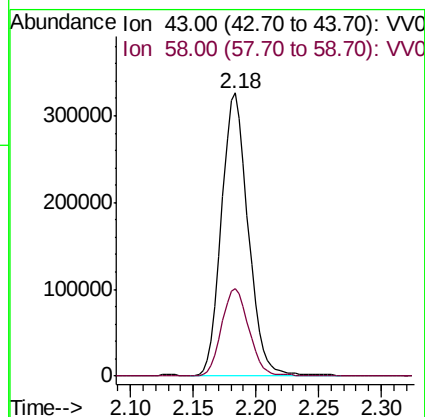
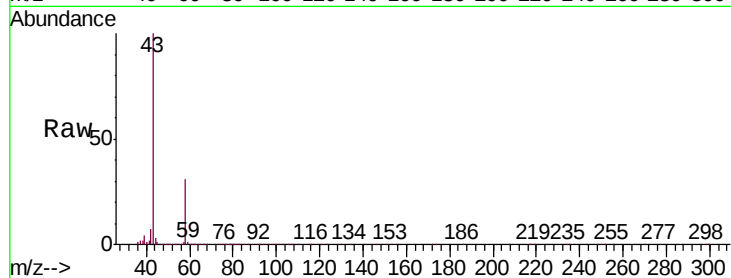
BFB81

Tgt Ion: 43 Resp: 477964

Ion Ratio Lower Upper

43 100

58 31.8 0.0 60.8



#14

Carbon disulfide

Concen: 48.949 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV014026.D

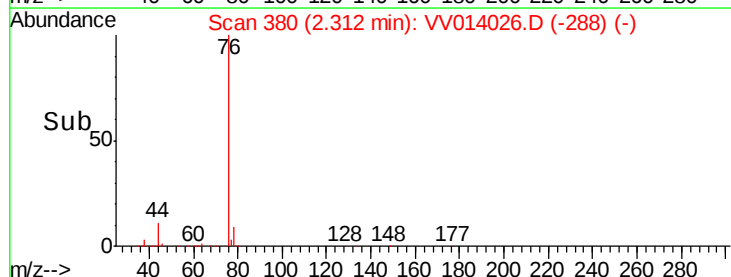
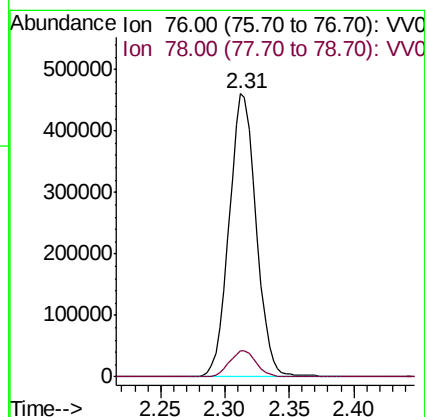
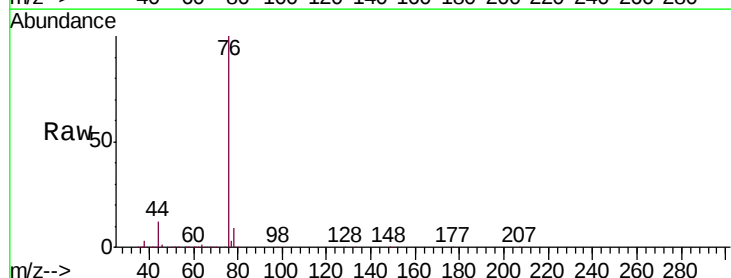
Acq: 12 Dec 2019 09:32

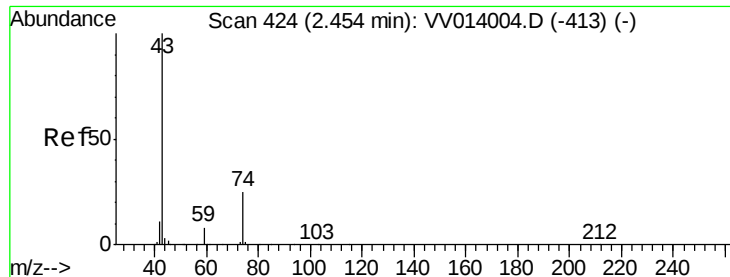
Tgt Ion: 76 Resp: 669042

Ion Ratio Lower Upper

76 100

78 9.1 7.2 10.8

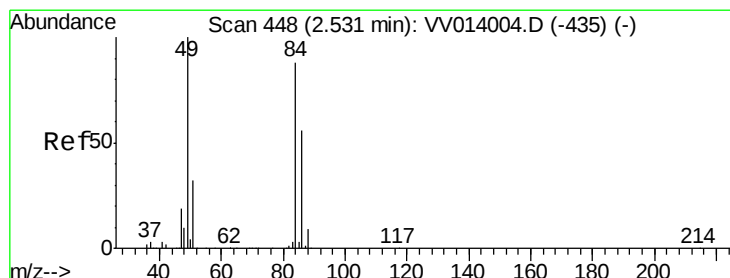
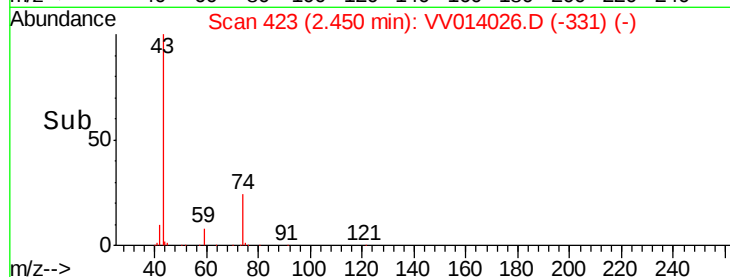
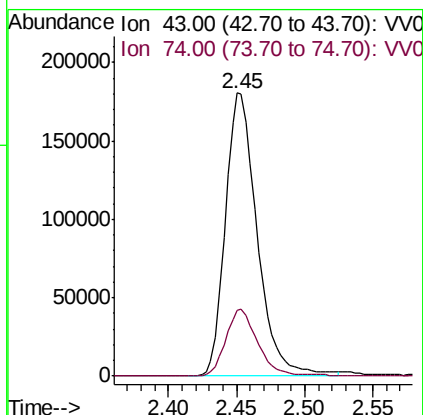
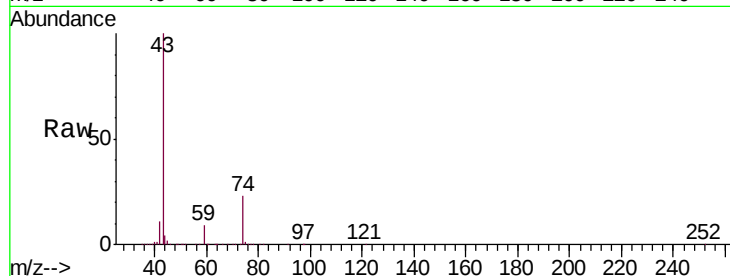




#15
Methyl Acetate
Concen: 55.478 ug/L
RT: 2.45 min Scan# 423
Delta R.T. -0.00 min
Lab File: VV014026.D
Acq: 12 Dec 2019 09:32

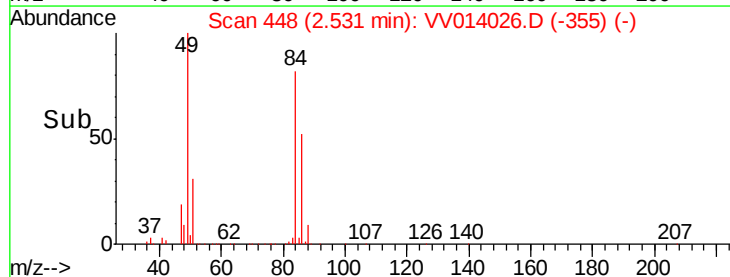
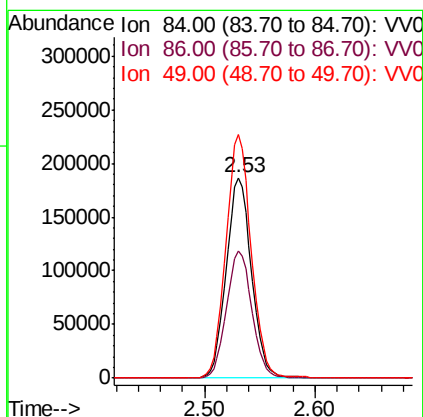
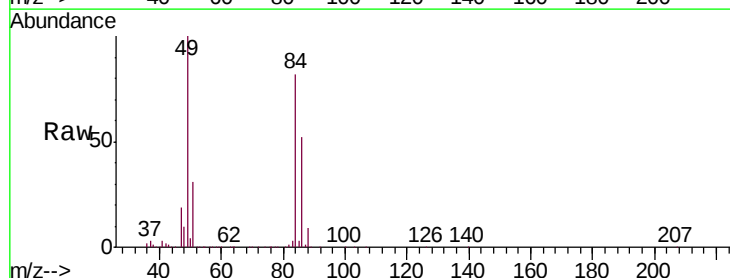
Instrument :
MSVOA_V
ClientSampleId :
BFB81

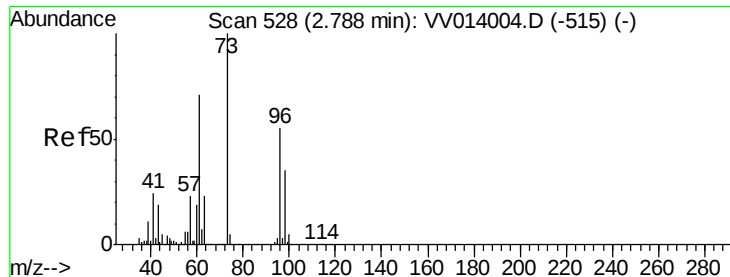
Tgt Ion: 43 Resp: 290996
Ion Ratio Lower Upper
43 100
74 23.6 19.3 28.9



#16
Methylene chloride
Concen: 55.158 ug/L
RT: 2.53 min Scan# 448
Delta R.T. -0.00 min
Lab File: VV014026.D
Acq: 12 Dec 2019 09:32

Tgt Ion: 84 Resp: 297705
Ion Ratio Lower Upper
84 100
86 63.1 43.9 81.5
49 121.3 79.7 147.9





#17

trans-1,2-Dichloroethene

Concen: 51.659 ug/L

RT: 2.79 min Scan# 528

Delta R.T. -0.00 min

Lab File: VV014026.D

Acq: 12 Dec 2019 09:32

Instrument :

MSVOA_V

ClientSampled :

BFB81

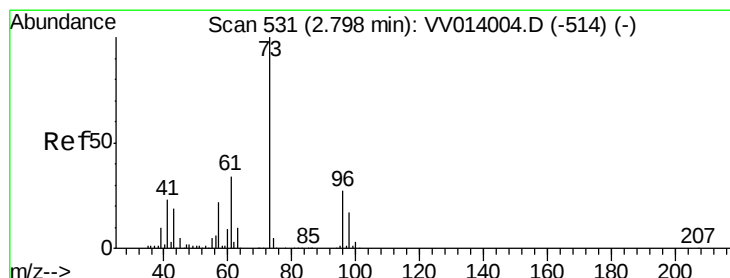
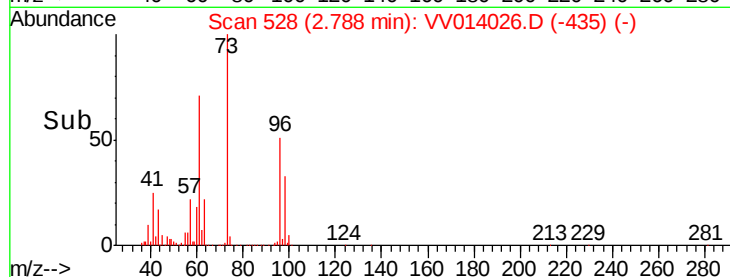
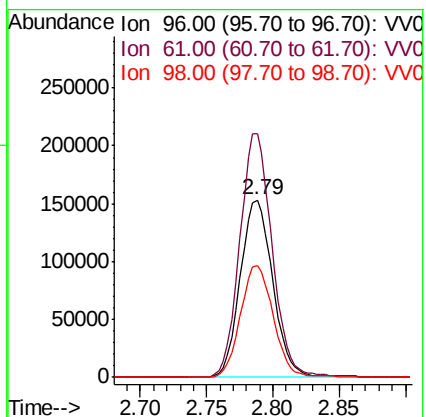
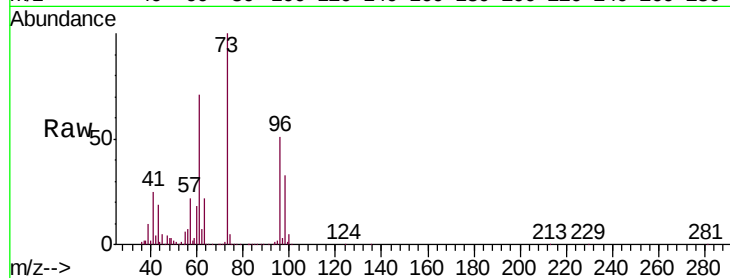
Tgt Ion: 96 Resp: 261891

Ion Ratio Lower Upper

96 100

61 137.5 92.2 171.2

98 63.5 42.6 79.2



#18

Methyl tert-butyl Ether

Concen: 54.400 ug/L

RT: 2.80 min Scan# 531

Delta R.T. -0.00 min

Lab File: VV014026.D

Acq: 12 Dec 2019 09:32

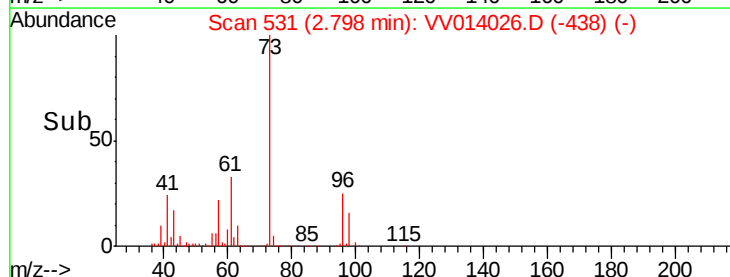
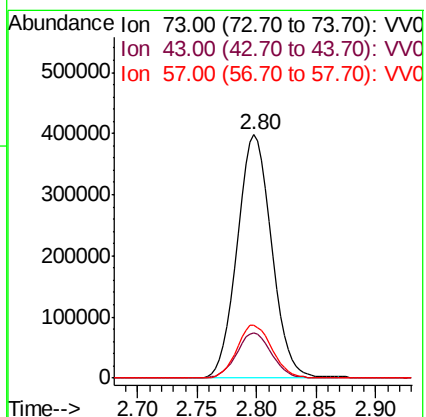
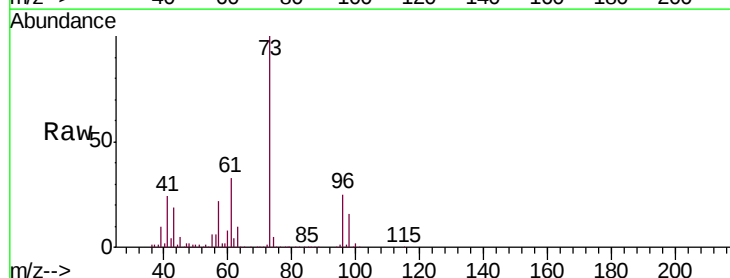
Tgt Ion: 73 Resp: 800343

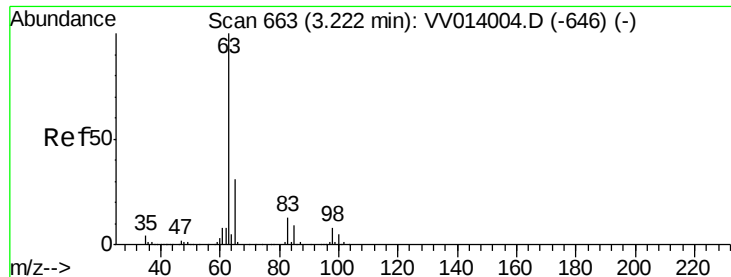
Ion Ratio Lower Upper

73 100

43 18.5 15.0 22.6

57 22.1 17.4 26.2





#19

1,1-Dichloroethane

Concen: 55.726 ug/L

RT: 3.22 min Scan# 663

Delta R.T. -0.00 min

Lab File: VV014026.D

Acq: 12 Dec 2019 09:32

Instrument :

MSVOA_V

ClientSampleId :

BFB81

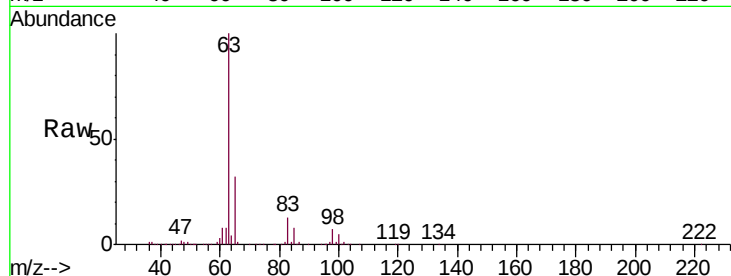
Tgt Ion: 63 Resp: 508987

Ion Ratio Lower Upper

63 100

65 32.3 21.5 39.9

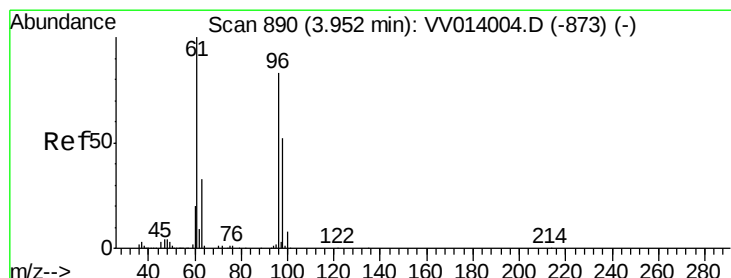
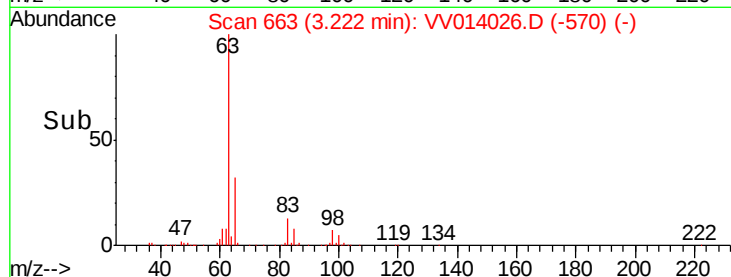
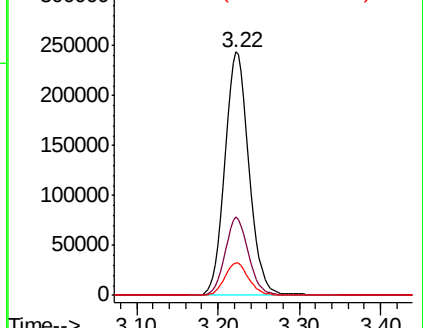
83 13.2 9.7 18.1



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 52.791 ug/L

RT: 3.96 min Scan# 891

Delta R.T. 0.00 min

Lab File: VV014026.D

Acq: 12 Dec 2019 09:32

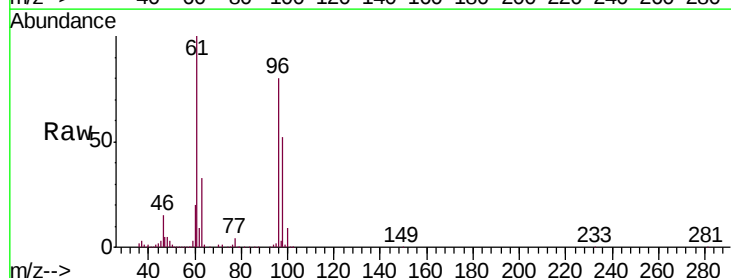
Tgt Ion: 96 Resp: 289823

Ion Ratio Lower Upper

96 100

61 124.6 85.3 158.5

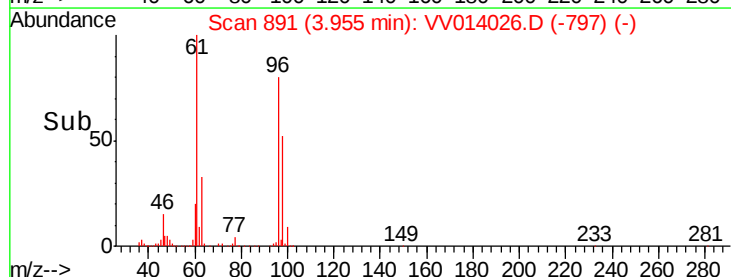
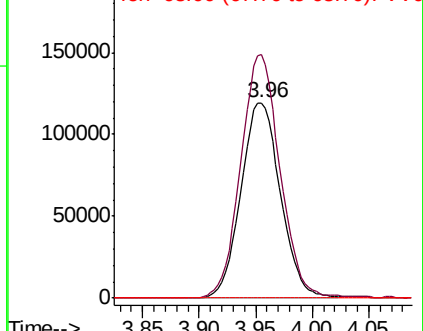
68 0.0 0.0 0.0

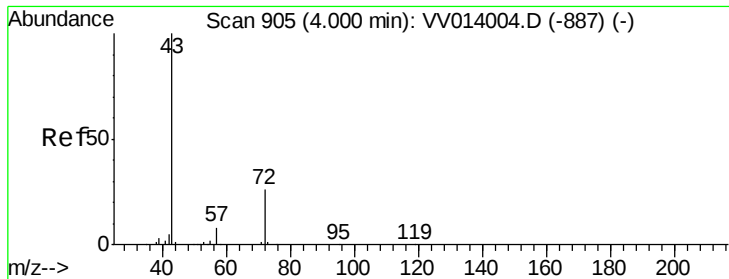


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 122.958 ug/L

RT: 4.00 min Scan# 905

Delta R.T. -0.00 min

Lab File: VV014026.D

Acq: 12 Dec 2019 09:32

Instrument :

MSVOA_V

ClientSampled :

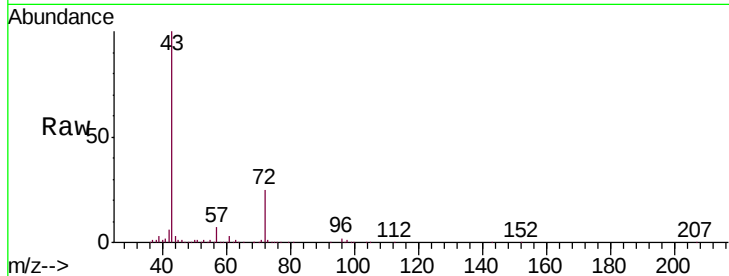
BFB81

Tgt Ion: 43 Resp: 502295

Ion Ratio Lower Upper

43 100

72 24.7 14.1 42.2



Abundance Ion 43.00 (42.70 to 43.70): VV014004.D (-887) (-)

Ion 72.00 (71.70 to 72.70): VV014004.D (-887) (-)

4.00

200000

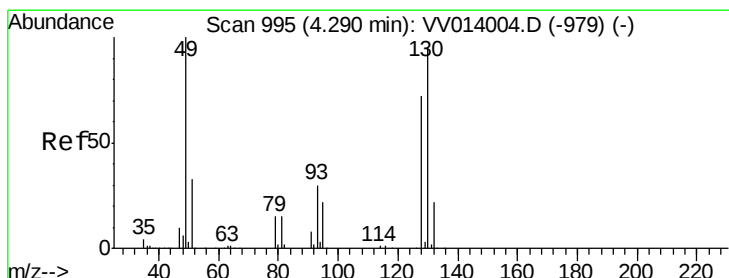
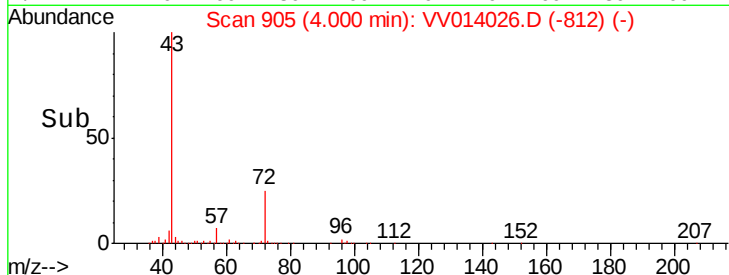
150000

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 52.631 ug/L

RT: 4.29 min Scan# 995

Delta R.T. -0.00 min

Lab File: VV014026.D

Acq: 12 Dec 2019 09:32

Tgt Ion: 128 Resp: 159640

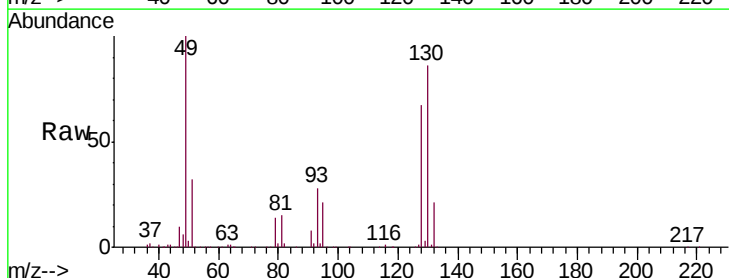
Ion Ratio Lower Upper

128 100

49 148.2 100.4 186.4

130 128.1 88.3 163.9

51 47.3 35.8 53.8



Abundance Ion 128.00 (127.70 to 128.70): VV014004.D (-979) (-)

Ion 49.00 (48.70 to 49.70): VV014004.D (-979) (-)

Ion 130.00 (129.70 to 130.70): VV014004.D (-979) (-)

Ion 51.00 (50.70 to 51.70): VV014004.D (-979) (-)

4.29

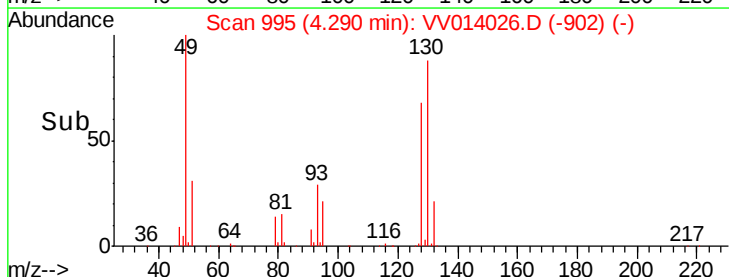
150000

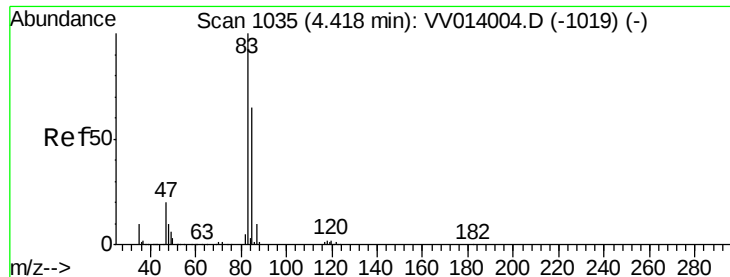
100000

50000

0

Time-->

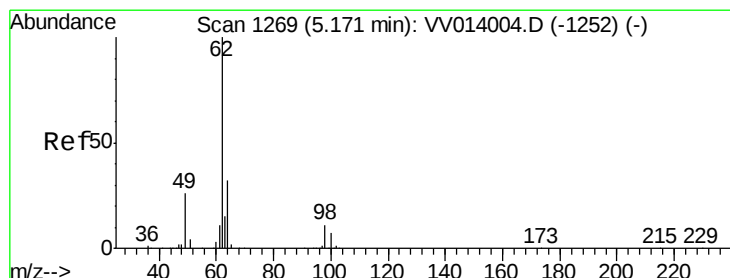
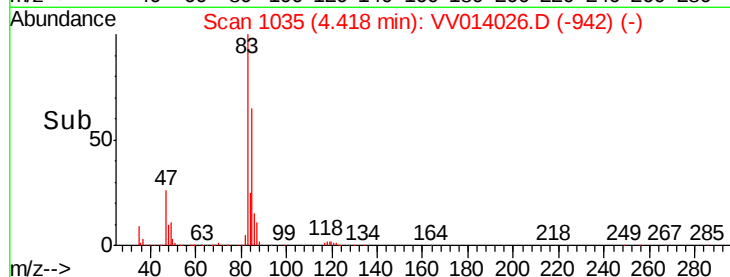
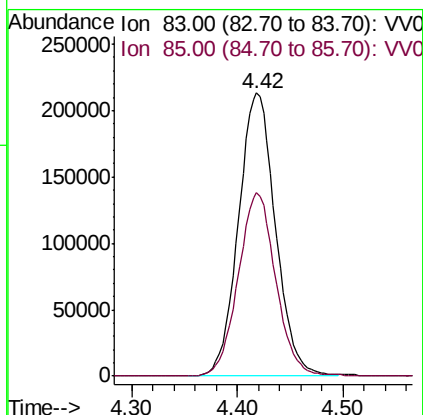
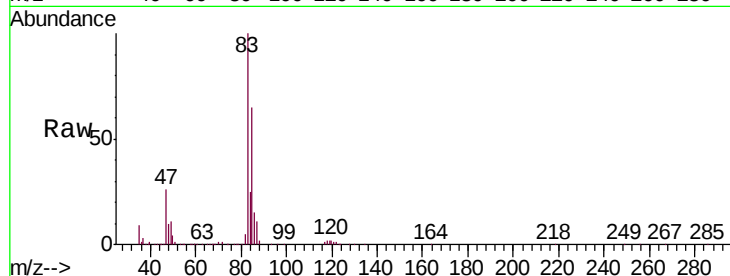




#25
Chloroform
Concen: 53.280 ug/L
RT: 4.42 min Scan# 1035
Delta R.T. -0.00 min
Lab File: VV014026.D
Acq: 12 Dec 2019 09:32

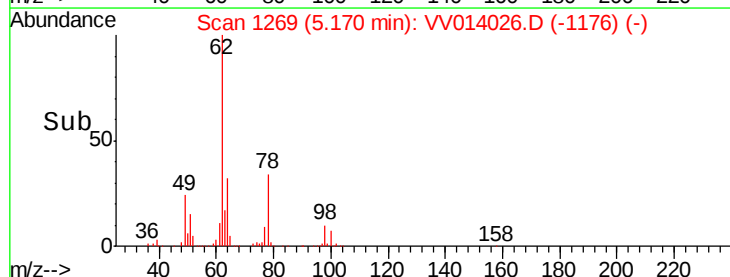
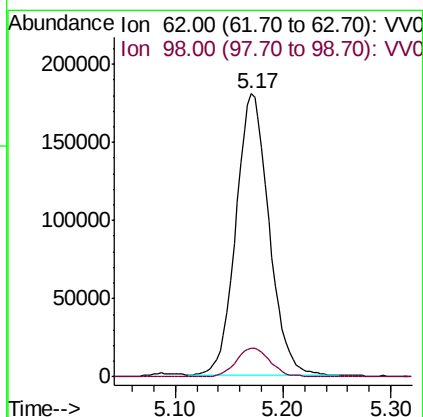
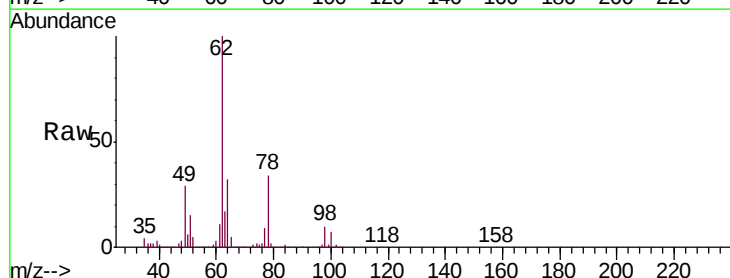
Instrument :
MSVOA_V
ClientSampleId :
BFB81

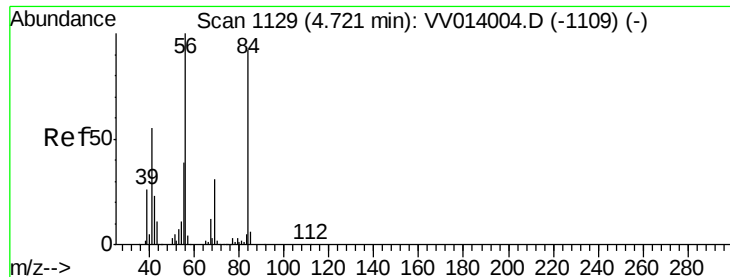
Tgt Ion: 83 Resp: 520248
Ion Ratio Lower Upper
83 100
85 64.6 45.7 84.9



#27
1,2-Dichloroethane
Concen: 54.777 ug/L
RT: 5.17 min Scan# 1269
Delta R.T. -0.00 min
Lab File: VV014026.D
Acq: 12 Dec 2019 09:32

Tgt Ion: 62 Resp: 385409
Ion Ratio Lower Upper
62 100
98 10.2 8.5 12.7

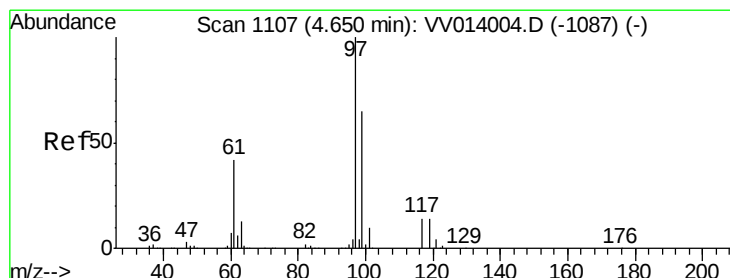
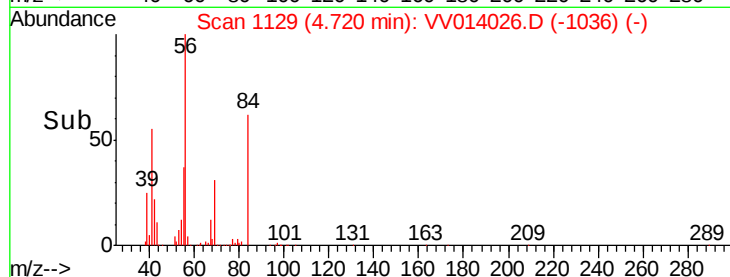
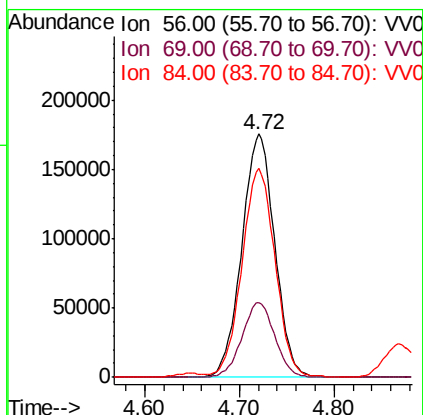
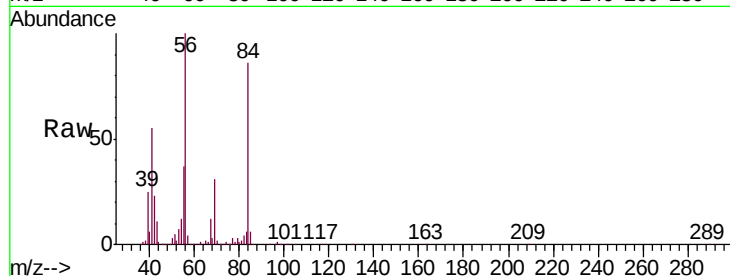




#29
Cyclohexane
Concen: 51.902 ug/L
RT: 4.72 min Scan# 1129
Delta R.T. -0.00 min
Lab File: VV014026.D
Acq: 12 Dec 2019 09:32

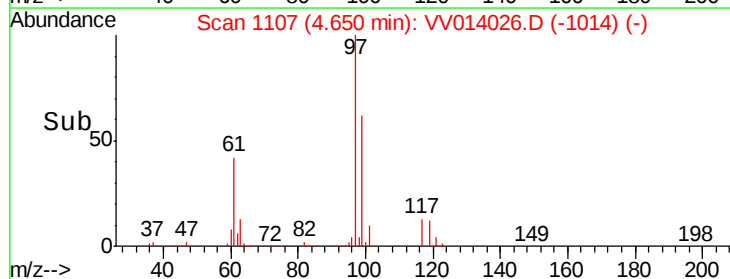
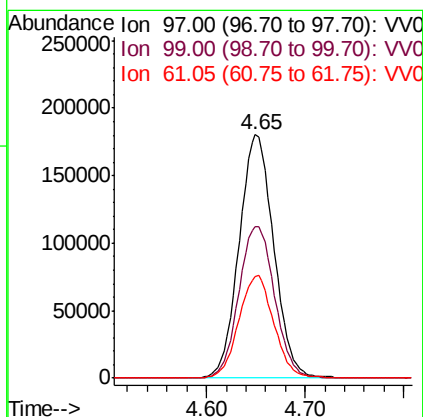
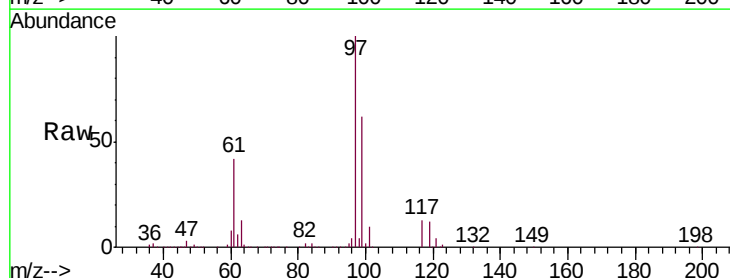
Instrument :
MSVOA_V
ClientSampleId :
BFB81

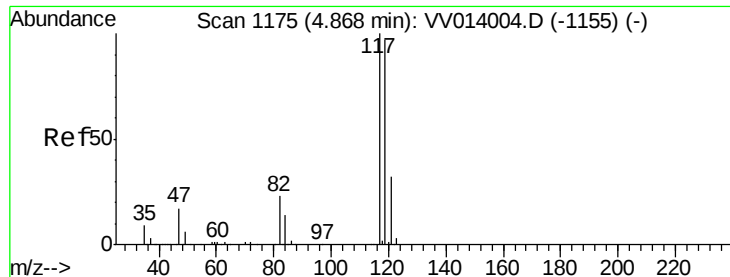
Tgt Ion: 56 Resp: 423206
Ion Ratio Lower Upper
56 100
69 30.7 24.9 37.3
84 85.4 71.0 106.4



#30
1,1,1-Trichloroethane
Concen: 52.073 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. -0.00 min
Lab File: VV014026.D
Acq: 12 Dec 2019 09:32

Tgt Ion: 97 Resp: 438727
Ion Ratio Lower Upper
97 100
99 64.4 51.4 77.2
61 42.4 33.2 49.8

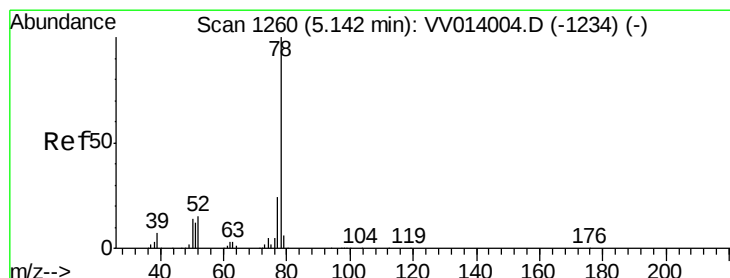
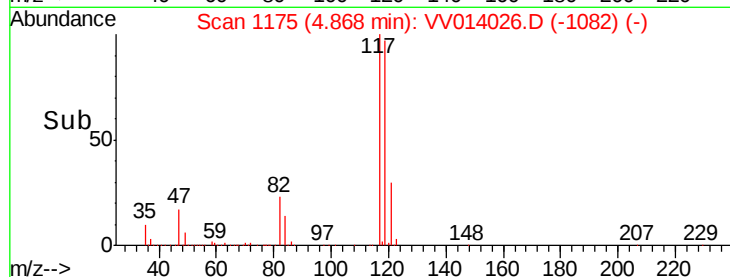
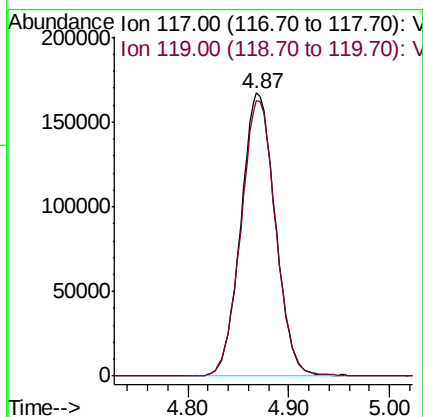
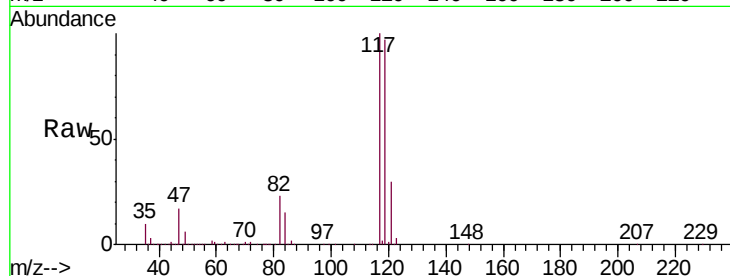




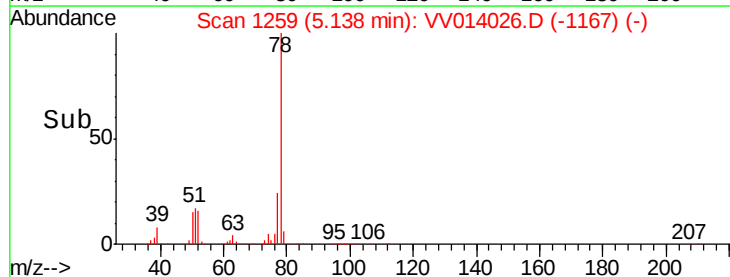
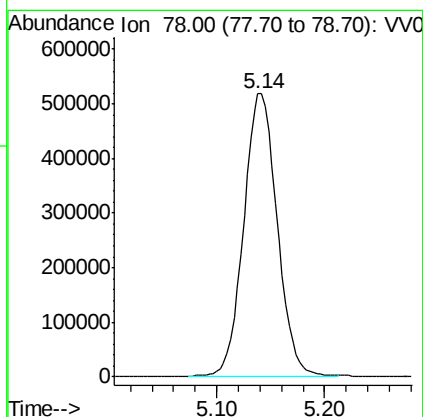
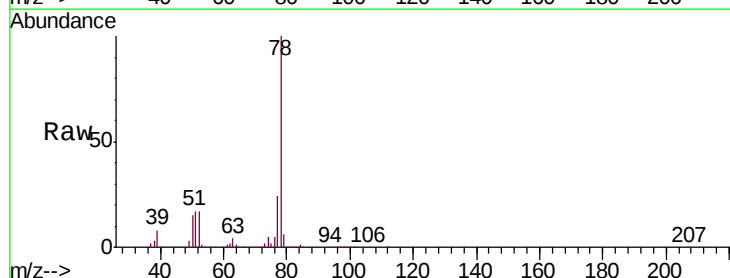
#31
Carbon tetrachloride
Concen: 52.299 ug/L
RT: 4.87 min Scan# 1175
Delta R.T. -0.00 min
Lab File: VV014026.D
Acq: 12 Dec 2019 09:32

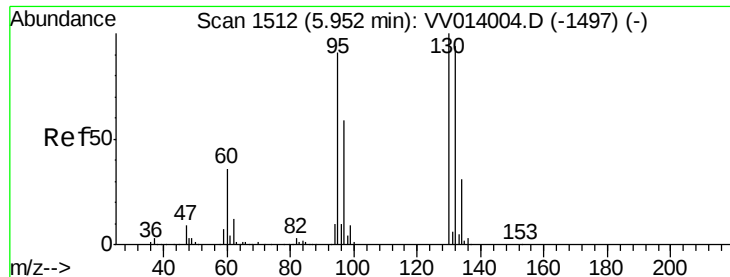
Instrument :
MSVOA_V
ClientSampleId :
BFB81

Tgt Ion:117 Resp: 393612
Ion Ratio Lower Upper
117 100
119 98.4 77.9 116.9



#33
Benzene
Concen: 53.674 ug/L
RT: 5.14 min Scan# 1259
Delta R.T. -0.00 min
Lab File: VV014026.D
Acq: 12 Dec 2019 09:32
Tgt Ion: 78 Resp: 1115546





#34

Trichloroethene

Concen: 53.729 ug/L

RT: 5.95 min Scan# 1512

Delta R.T. -0.00 min

Lab File: VV014026.D

Acq: 12 Dec 2019 09:32

Instrument :

MSVOA_V

ClientSampled :

BFB81

Tgt Ion: 95 Resp: 299505

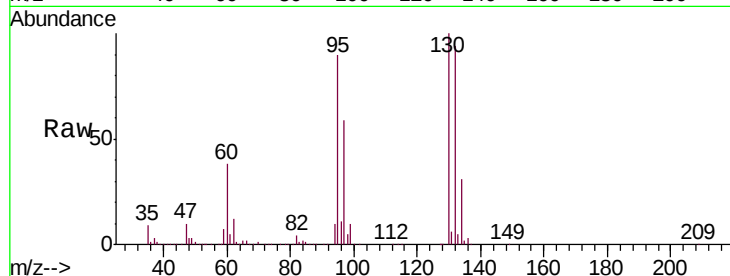
Ion Ratio Lower Upper

95 100

97 65.9 45.4 84.4

132 104.6 73.7 136.9

130 110.9 77.1 143.1

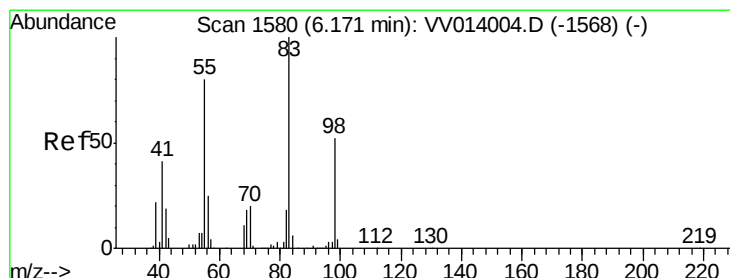
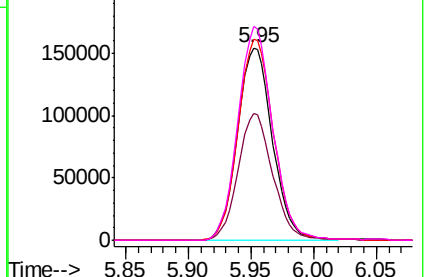
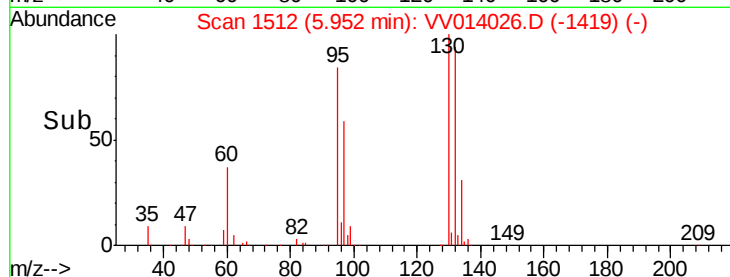


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#35

Methylcyclohexane

Concen: 53.502 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. -0.00 min

Lab File: VV014026.D

Acq: 12 Dec 2019 09:32

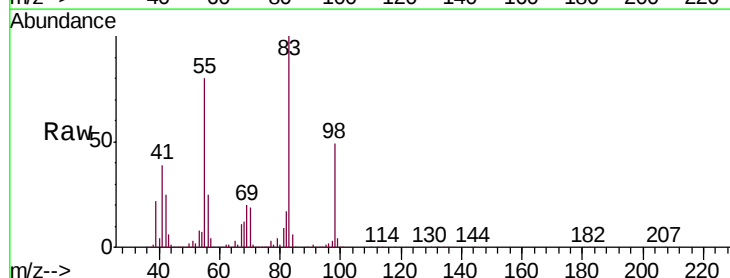
Tgt Ion: 83 Resp: 447477

Ion Ratio Lower Upper

83 100

55 78.9 61.0 91.4

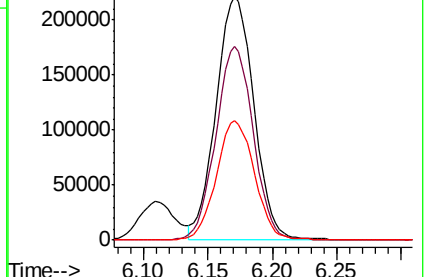
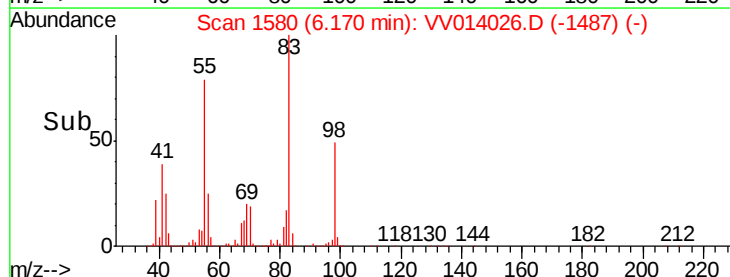
98 50.1 39.6 59.4

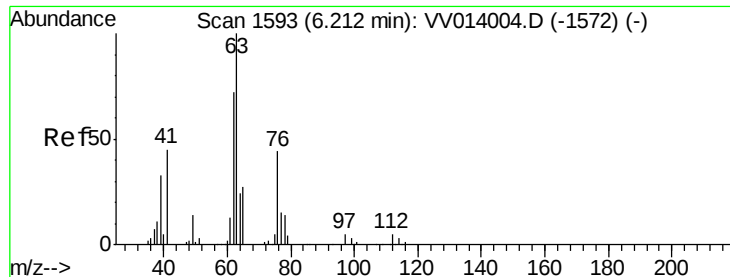


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

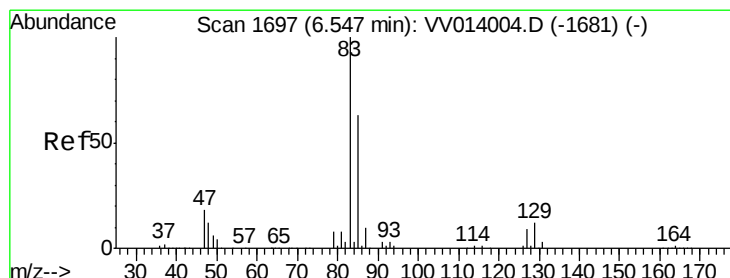
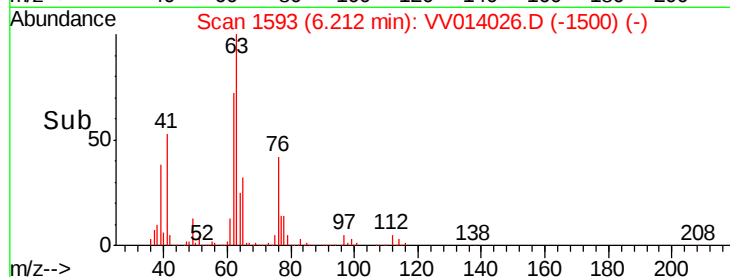
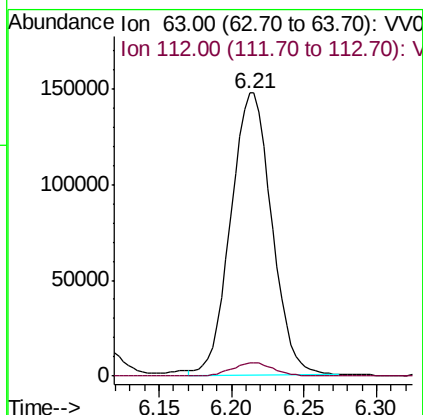
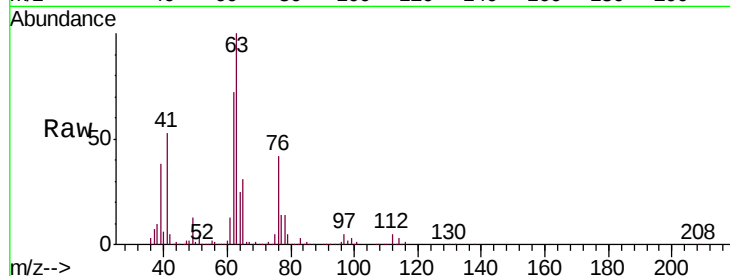




#37
 1,2-Dichloropropane
 Concen: 57.397 ug/L
 RT: 6.21 min Scan# 1593
 Delta R.T. -0.00 min
 Lab File: VV014026.D
 Acq: 12 Dec 2019 09:32

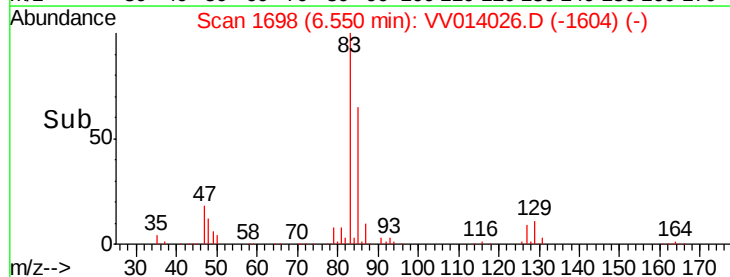
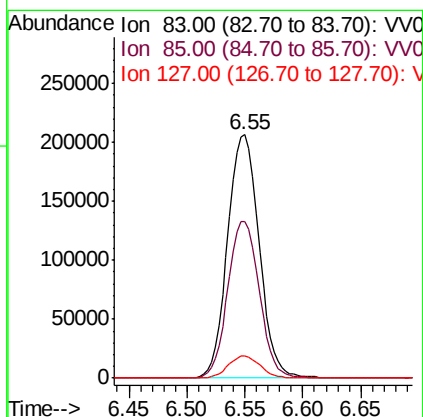
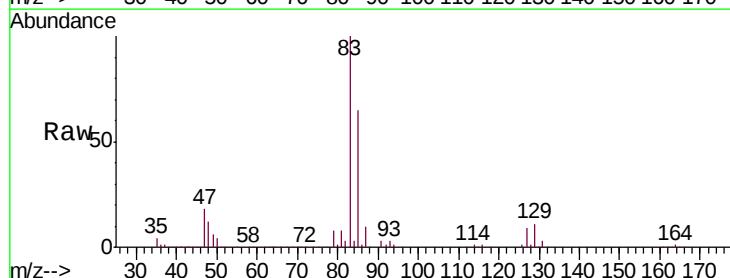
Instrument :
 MSVOA_V
 ClientSampleId :
 BFB81

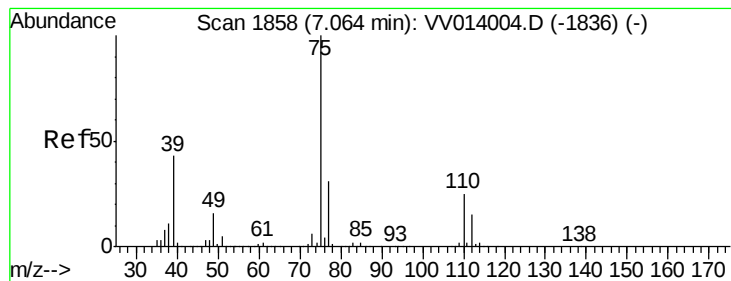
Tgt Ion: 63 Resp: 288722
 Ion Ratio Lower Upper
 63 100
 112 4.9 4.2 6.2



#38
 Bromodichloromethane
 Concen: 54.377 ug/L
 RT: 6.55 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VV014026.D
 Acq: 12 Dec 2019 09:32

Tgt Ion: 83 Resp: 387909
 Ion Ratio Lower Upper
 83 100
 85 64.6 44.8 83.2
 127 9.1 7.7 11.5



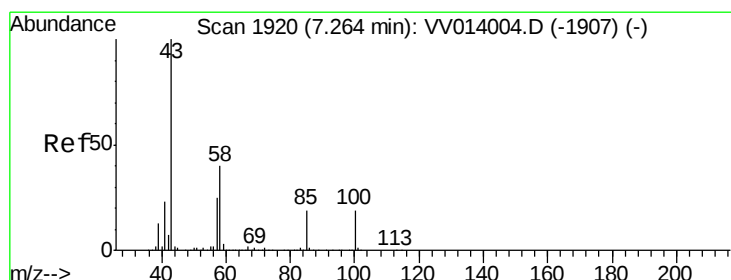
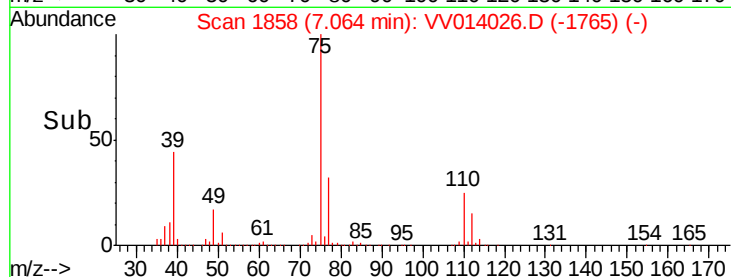
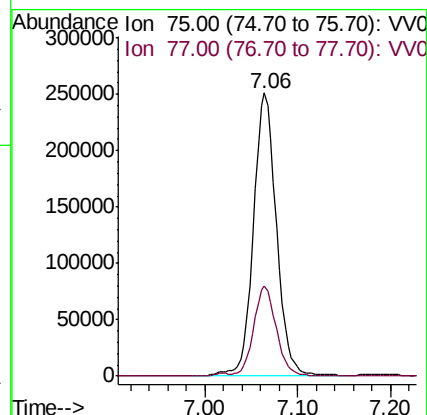
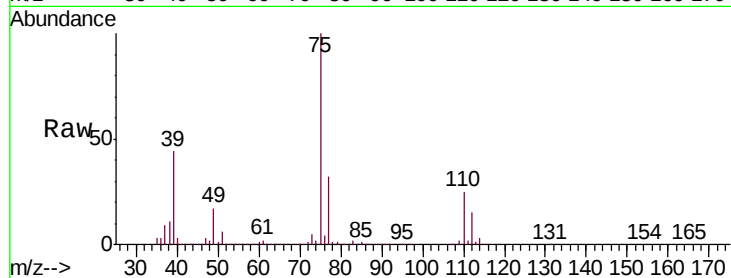


#39

cis-1,3-Dichloropropene
 Concen: 54.769 ug/L
 RT: 7.06 min Scan# 1858
 Delta R.T. -0.00 min
 Lab File: VV014026.D
 Acq: 12 Dec 2019 09:32

Instrument :
 MSVOA_V
 ClientSampled :
 BFB81

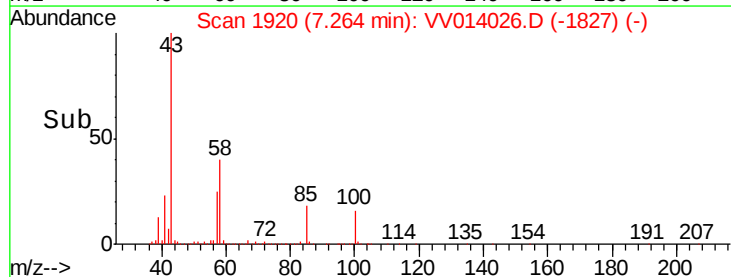
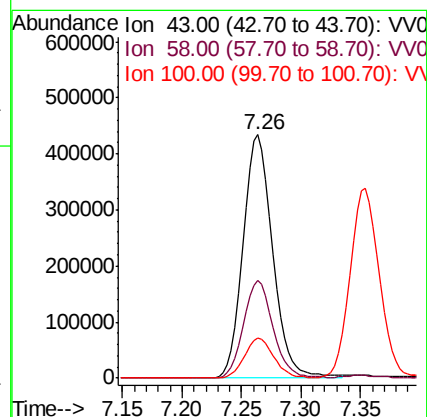
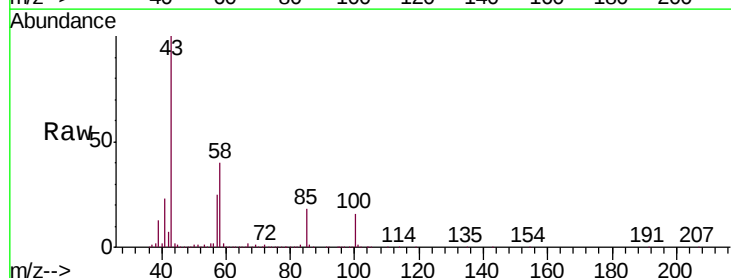
Tgt Ion: 75 Resp: 433714
 Ion Ratio Lower Upper
 75 100
 77 31.9 21.6 40.2

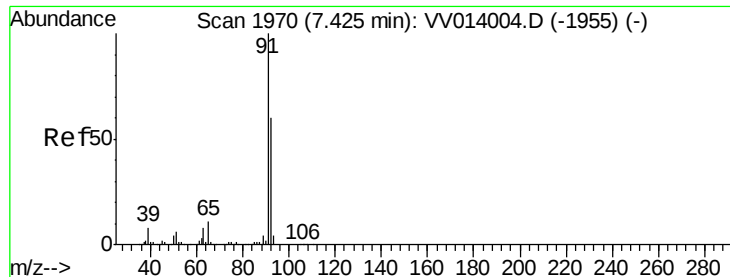


#40

4-Methyl-2-pentanone
 Concen: 114.662 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. -0.00 min
 Lab File: VV014026.D
 Acq: 12 Dec 2019 09:32

Tgt Ion: 43 Resp: 750011
 Ion Ratio Lower Upper
 43 100
 58 39.9 31.9 47.9
 100 16.4 13.7 20.5





#42

Toluene

Concen: 56.157 ug/L

RT: 7.42 min Scan# 1970

Delta R.T. -0.00 min

Lab File: VV014026.D

Acq: 12 Dec 2019 09:32

Instrument :

MSVOA_V

ClientSampleId :

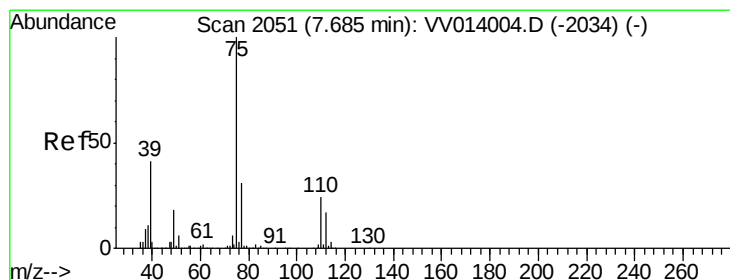
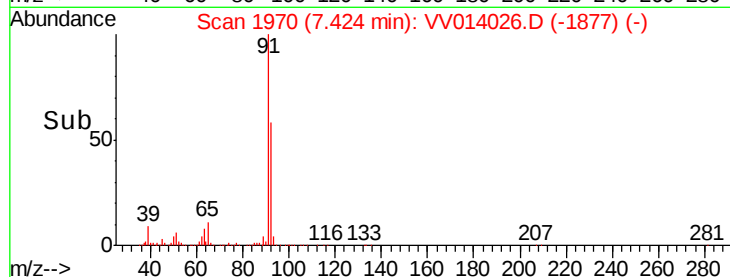
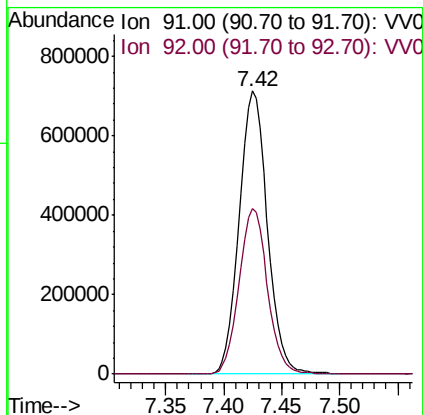
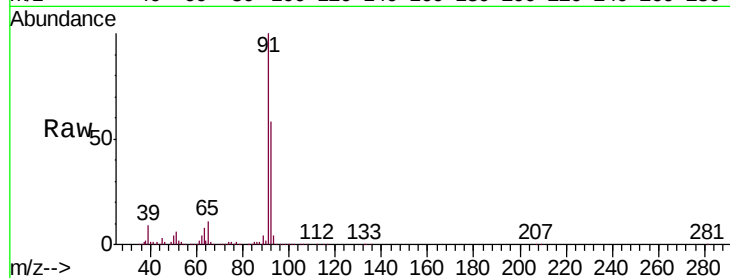
BFB81

Tgt Ion: 91 Resp: 1204247

Ion Ratio Lower Upper

91 100

92 58.5 41.4 77.0



#44

trans-1,3-Dichloropropene

Concen: 53.546 ug/L

RT: 7.69 min Scan# 2052

Delta R.T. 0.00 min

Lab File: VV014026.D

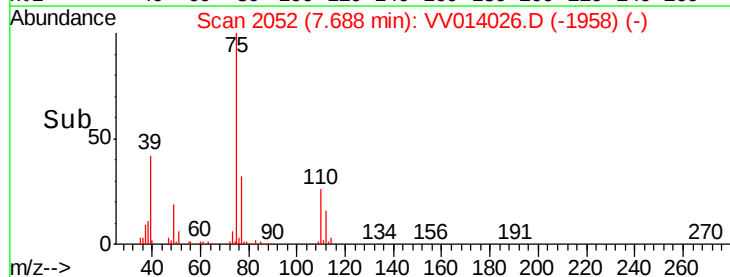
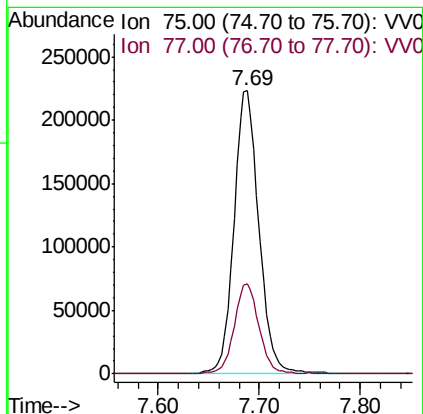
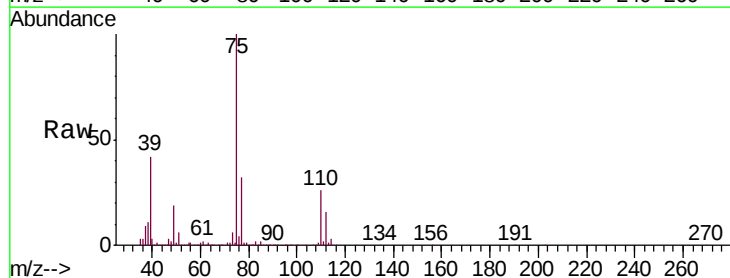
Acq: 12 Dec 2019 09:32

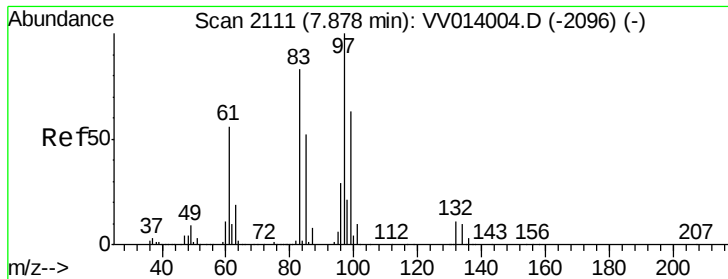
Tgt Ion: 75 Resp: 383971

Ion Ratio Lower Upper

75 100

77 32.0 22.9 42.5





#45

1,1,2-Trichloroethane

Concen: 56.310 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VV014026.D

Acq: 12 Dec 2019 09:32

Instrument :

MSVOA_V

ClientSampleId :

BFB81

Tgt Ion: 97 Resp: 281157

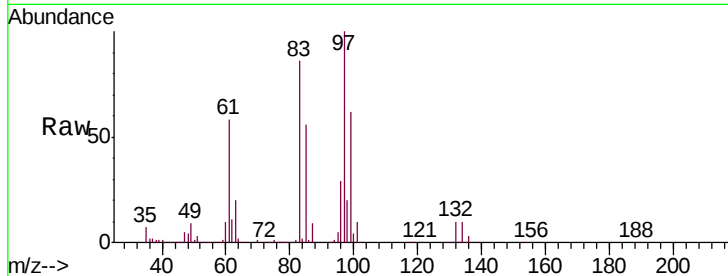
Ion Ratio Lower Upper

97 100

99 61.7 43.0 80.0

83 86.4 57.5 106.9

85 55.6 35.6 66.2



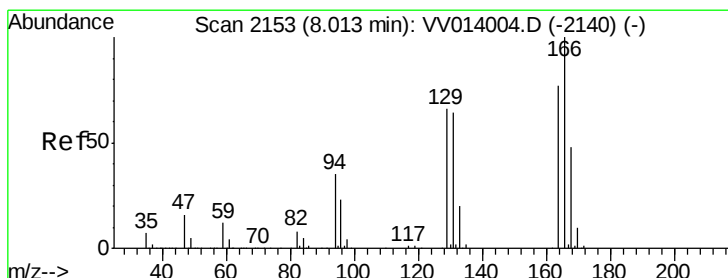
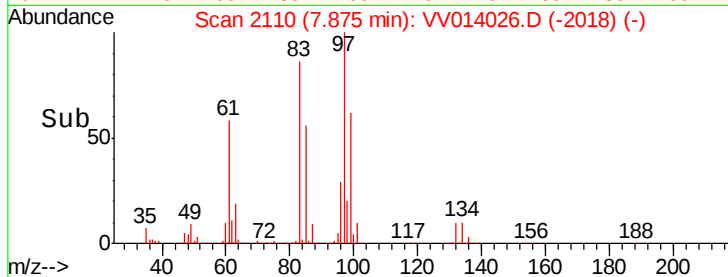
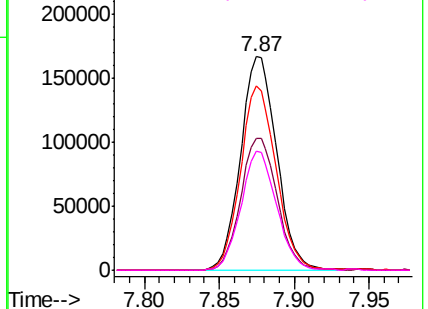
Abundance

Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#46

Tetrachloroethene

Concen: 53.271 ug/L

RT: 8.01 min Scan# 2153

Delta R.T. -0.00 min

Lab File: VV014026.D

Acq: 12 Dec 2019 09:32

Tgt Ion: 164 Resp: 267961

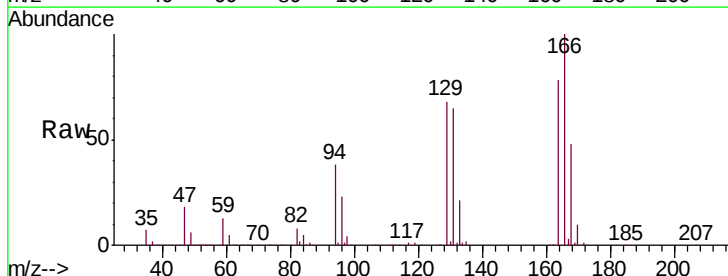
Ion Ratio Lower Upper

164 100

129 86.4 61.7 114.7

131 82.8 58.4 108.6

166 127.5 93.4 173.6



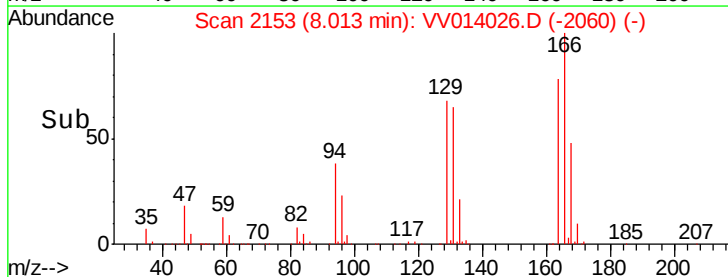
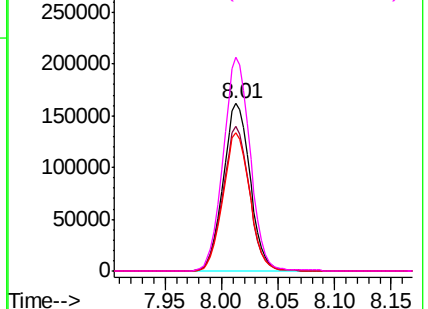
Abundance

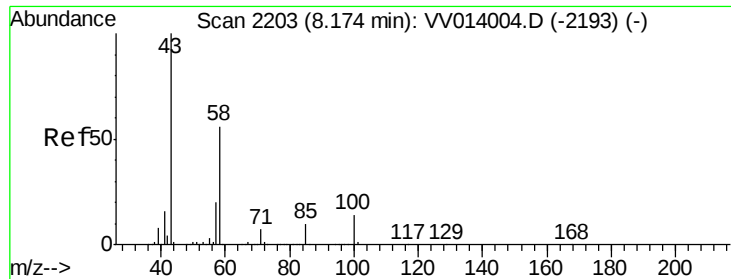
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

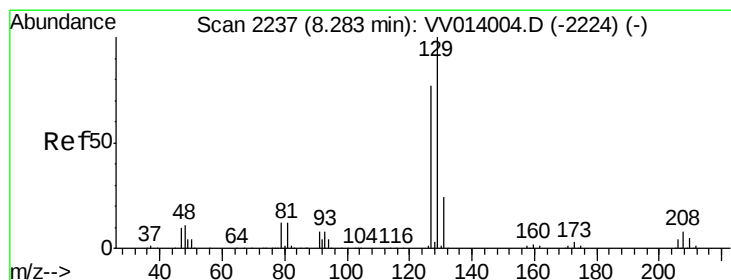
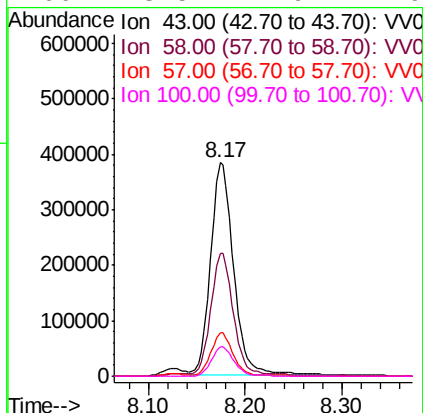
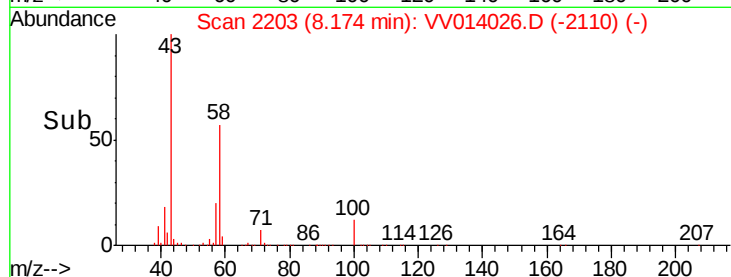
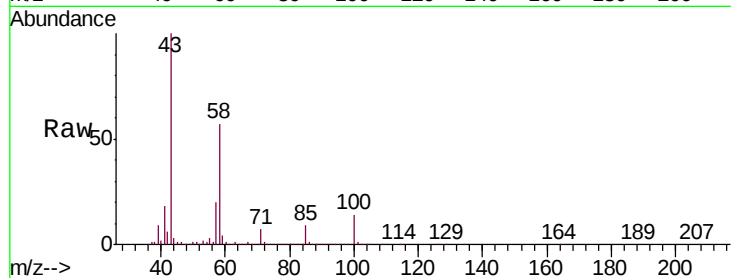




#48
2-Hexanone
Concen: 121.686 ug/L
RT: 8.17 min Scan# 2203
Delta R.T. -0.00 min
Lab File: VV014026.D
Acq: 12 Dec 2019 09:32

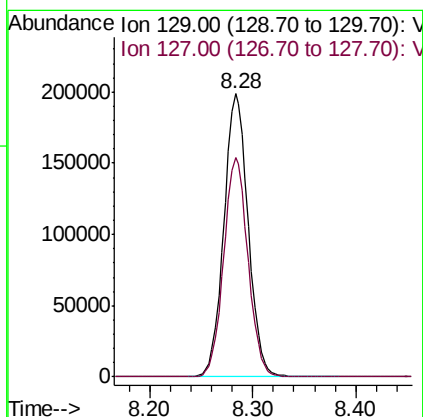
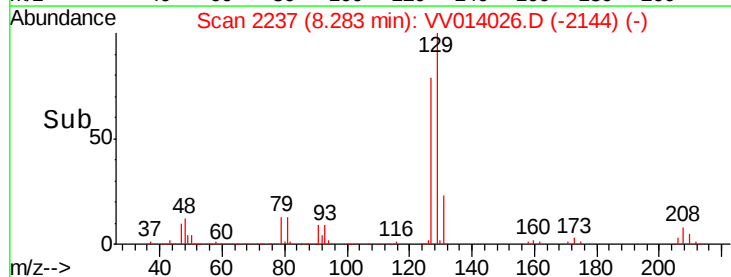
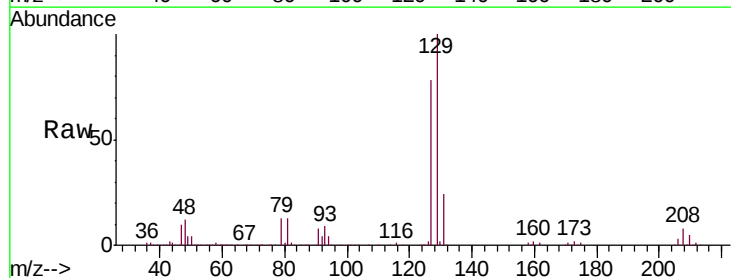
Instrument :
MSVOA_V
ClientSampleId :
BFB81

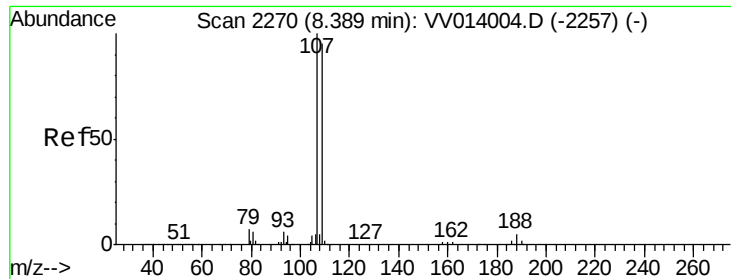
Tgt Ion: 43 Resp: 636724
Ion Ratio Lower Upper
43 100
58 54.3 48.4 72.6
57 18.9 16.6 24.8
100 13.5 11.9 17.9



#49
Dibromochloromethane
Concen: 53.432 ug/L
RT: 8.28 min Scan# 2237
Delta R.T. -0.00 min
Lab File: VV014026.D
Acq: 12 Dec 2019 09:32

Tgt Ion: 129 Resp: 326122
Ion Ratio Lower Upper
129 100
127 77.7 53.7 99.7

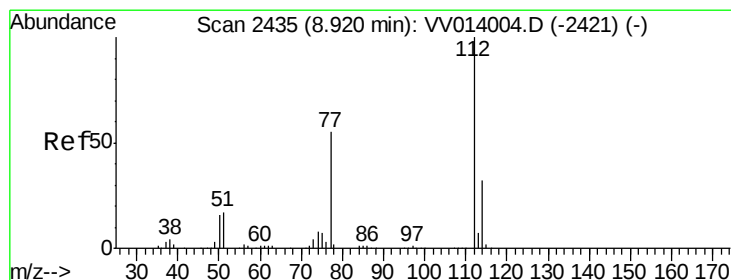
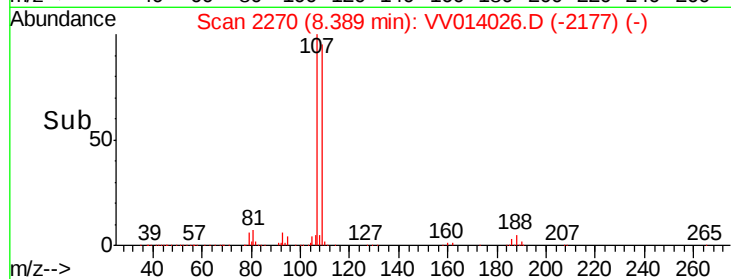
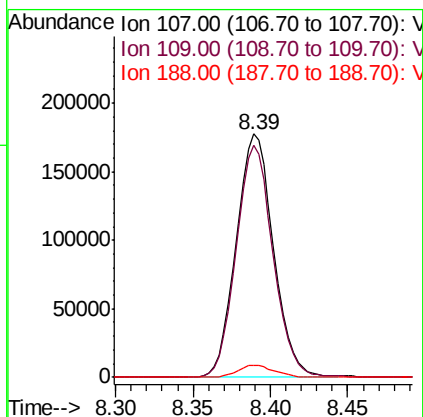
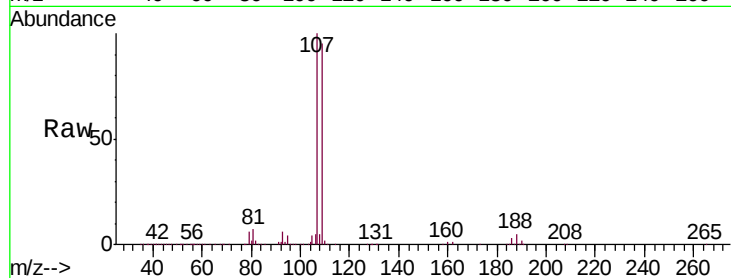




#50
 1,2-Dibromoethane
 Concen: 54.012 ug/L
 RT: 8.39 min Scan# 2270
 Delta R.T. -0.00 min
 Lab File: VV014026.D
 Acq: 12 Dec 2019 09:32

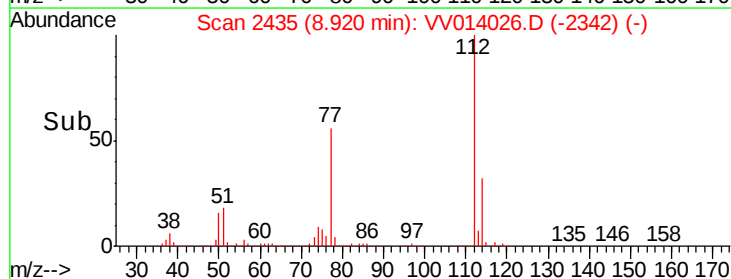
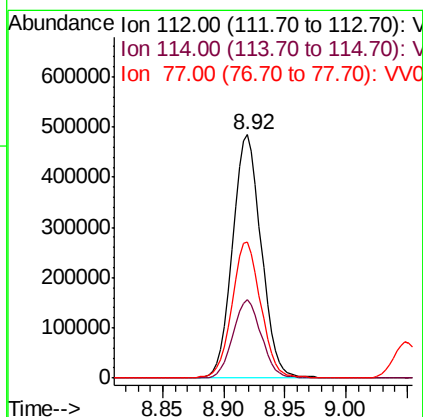
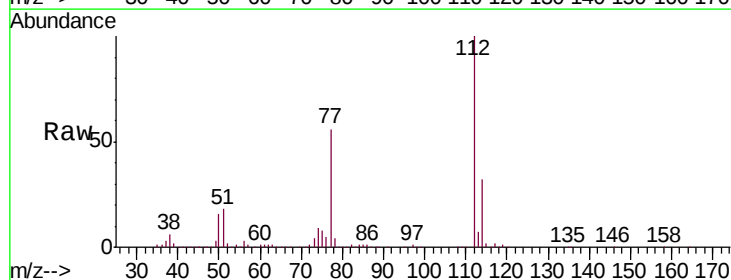
Instrument :
 MSVOA_V
 ClientSampleId :
 BFB81

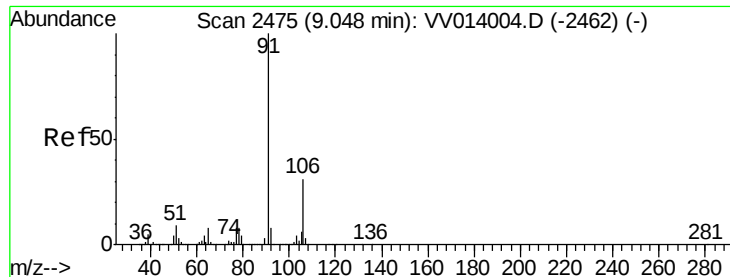
Tgt Ion	Ratio	Lower	Upper
107	100		
109	95.1	65.9	122.5
188	5.0	3.6	5.4



#51
 Chlorobenzene
 Concen: 53.553 ug/L
 RT: 8.92 min Scan# 2435
 Delta R.T. -0.00 min
 Lab File: VV014026.D
 Acq: 12 Dec 2019 09:32

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.1	23.2	43.2
77	55.7	45.0	67.4





#52

Ethylbenzene

Concen: 55.174 ug/L

RT: 9.05 min Scan# 2475

Delta R.T. -0.00 min

Lab File: VV014026.D

Acq: 12 Dec 2019 09:32

Instrument :

MSVOA_V

ClientSampleId :

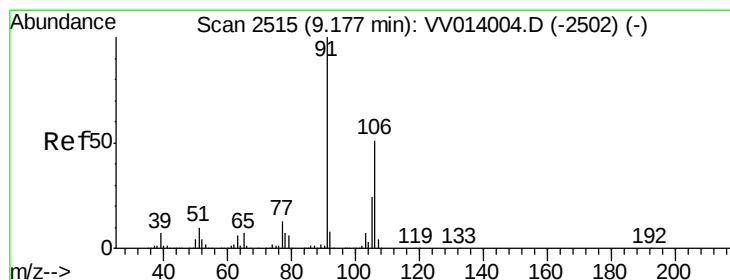
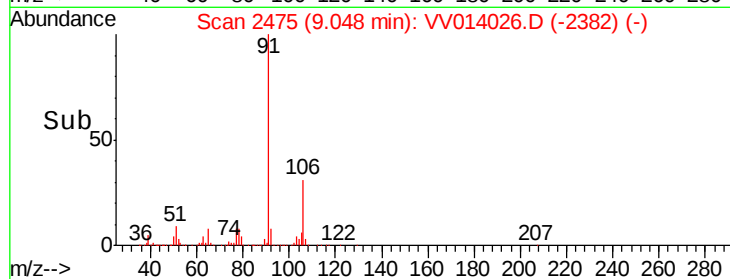
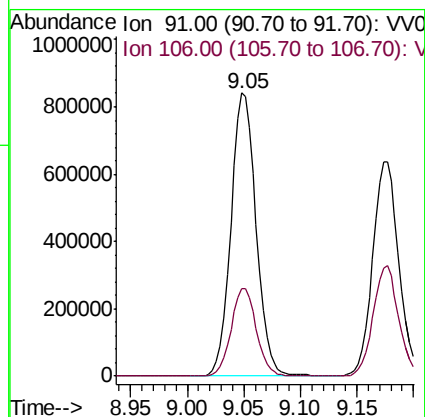
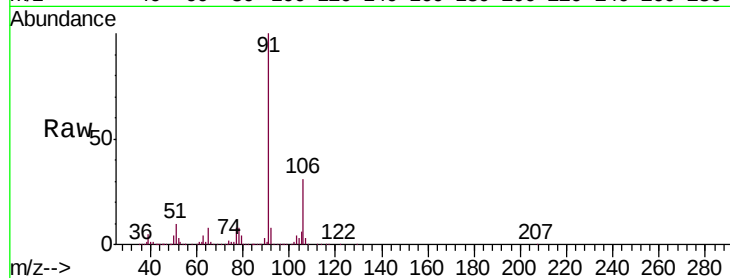
BFB81

Tgt Ion: 91 Resp: 1304325

Ion Ratio Lower Upper

91 100

106 30.9 21.8 40.4



#53

m,p-Xylene

Concen: 56.182 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. -0.00 min

Lab File: VV014026.D

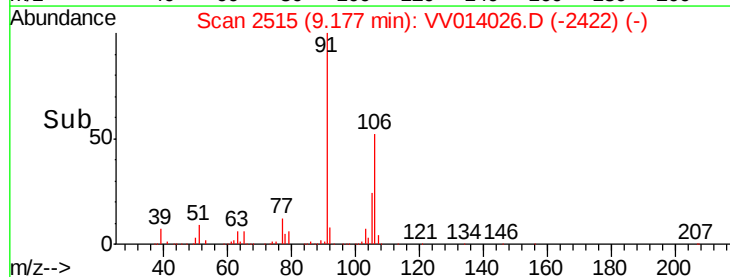
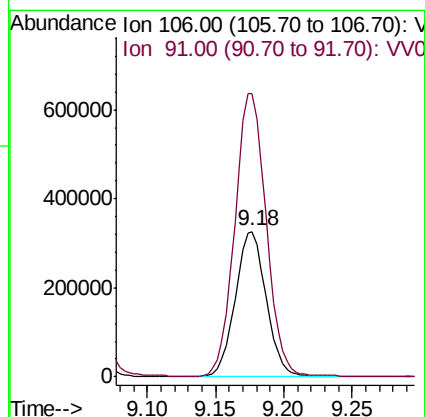
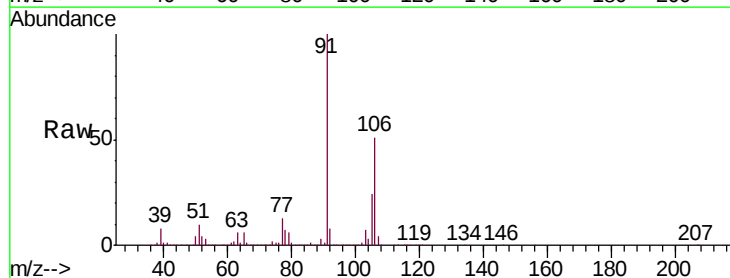
Acq: 12 Dec 2019 09:32

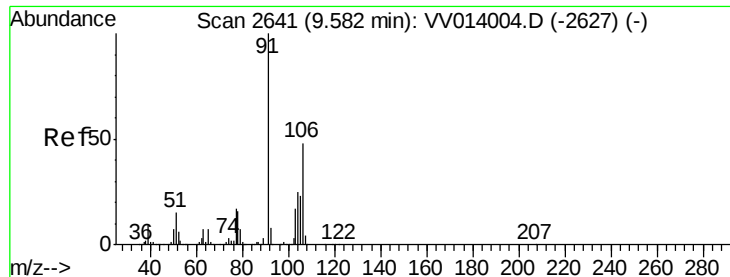
Tgt Ion: 106 Resp: 513603

Ion Ratio Lower Upper

106 100

91 194.2 139.4 259.0

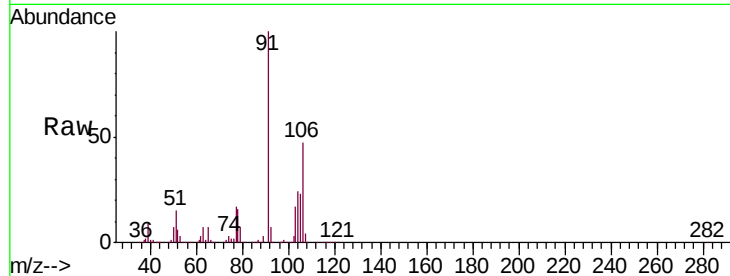




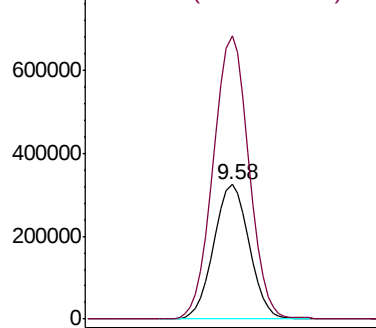
#54
o-xylene
Concen: 54.764 ug/L
RT: 9.58 min Scan# 2641
Delta R.T. -0.00 min
Lab File: VV014026.D
Acq: 12 Dec 2019 09:32

Instrument :
MSVOA_V
ClientSampleId :
BFB81

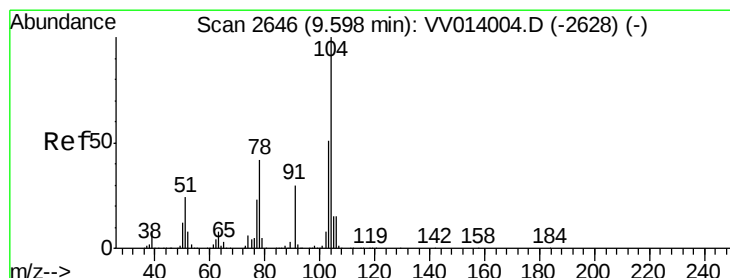
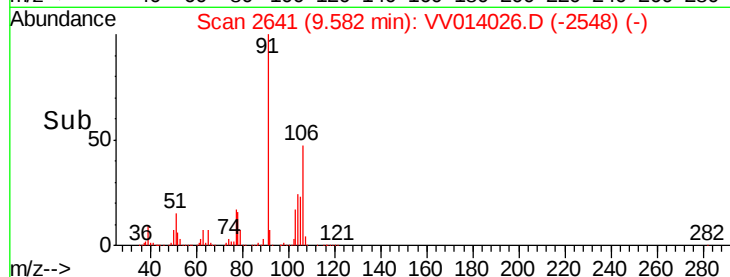
Tgt Ion:106 Resp: 489496
Ion Ratio Lower Upper
106 100
91 210.6 147.1 273.1



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

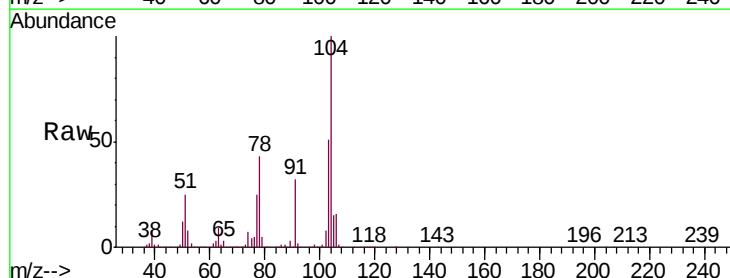


Time-->

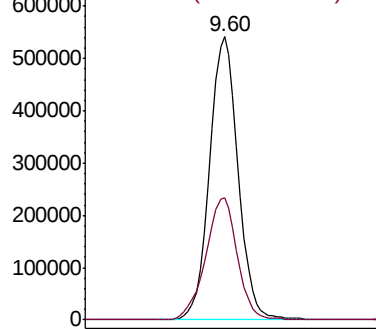


#55
Styrene
Concen: 55.534 ug/L
RT: 9.60 min Scan# 2646
Delta R.T. -0.00 min
Lab File: VV014026.D
Acq: 12 Dec 2019 09:32

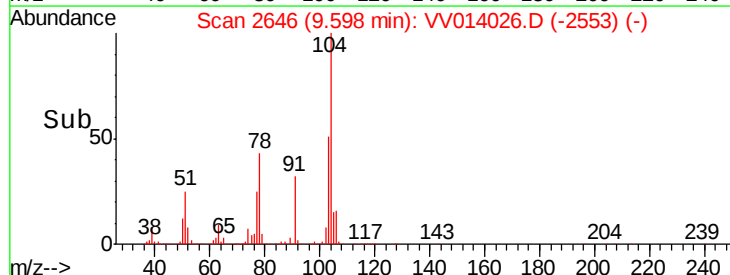
Tgt Ion:104 Resp: 856409
Ion Ratio Lower Upper
104 100
78 43.2 29.3 54.5

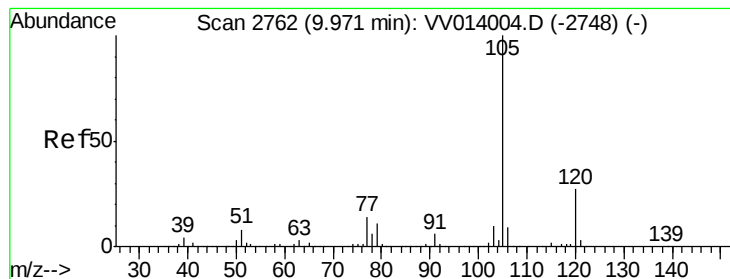


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0



Time-->





#56

Isopropylbenzene

Concen: 54.035 ug/L

RT: 9.97 min Scan# 2761

Delta R.T. -0.00 min

Lab File: VV014026.D

Acq: 12 Dec 2019 09:32

Instrument :

MSVOA_V

ClientSampled :

BFB81

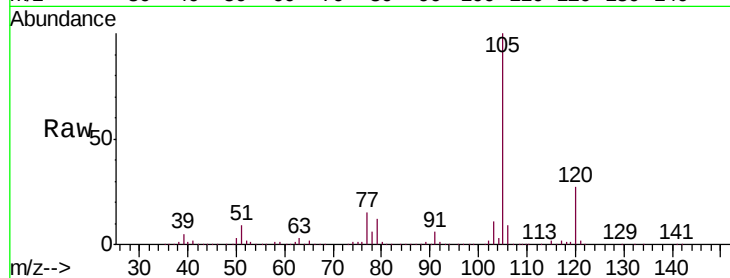
Tgt Ion:105 Resp: 1298233

Ion Ratio Lower Upper

105 100

120 26.9 21.4 32.2

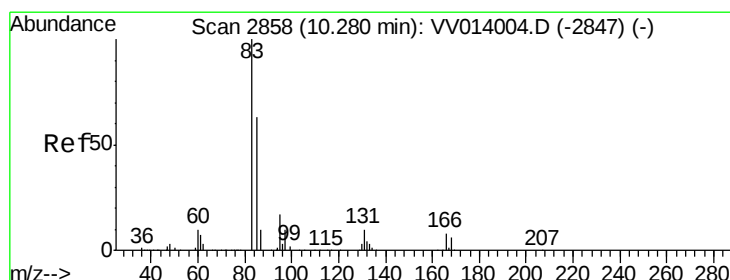
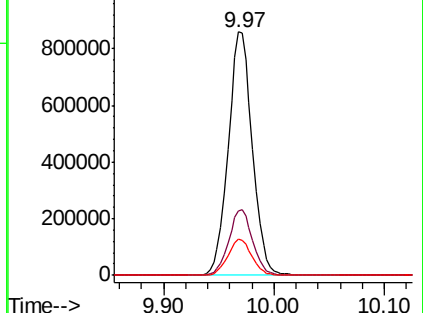
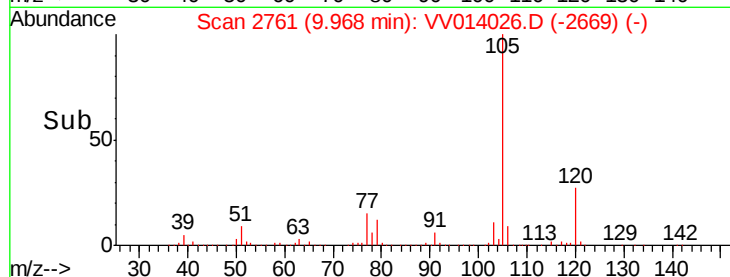
77 14.8 12.0 18.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 50.013 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. -0.00 min

Lab File: VV014026.D

Acq: 12 Dec 2019 09:32

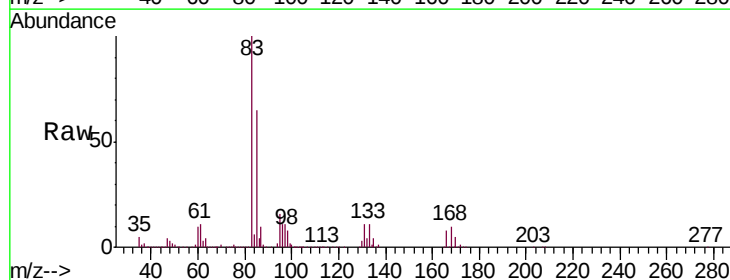
Tgt Ion: 83 Resp: 406531

Ion Ratio Lower Upper

83 100

85 65.3 44.1 81.9

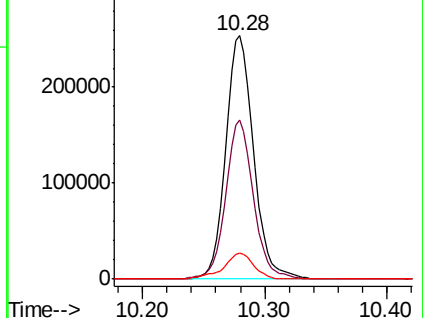
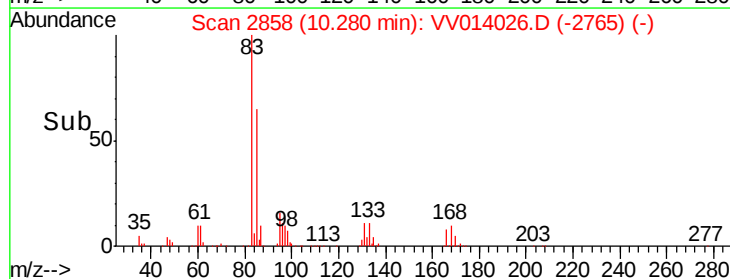
131 10.8 8.8 13.2

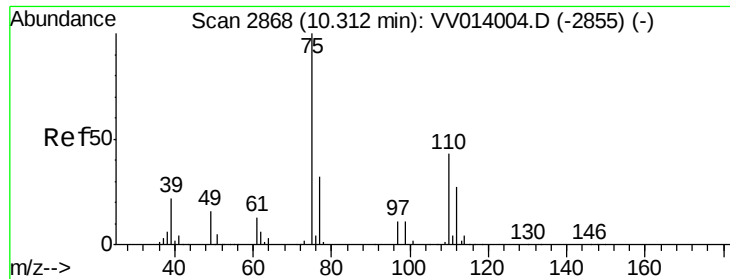


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 52.026 ug/L

RT: 10.31 min Scan# 2868

Delta R.T. -0.00 min

Lab File: VV014026.D

Acq: 12 Dec 2019 09:32

Instrument :

MSVOA_V

ClientSampleId :

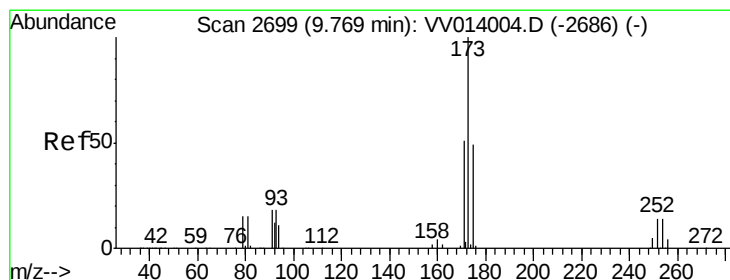
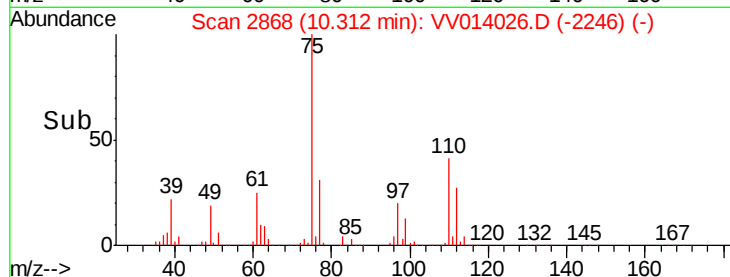
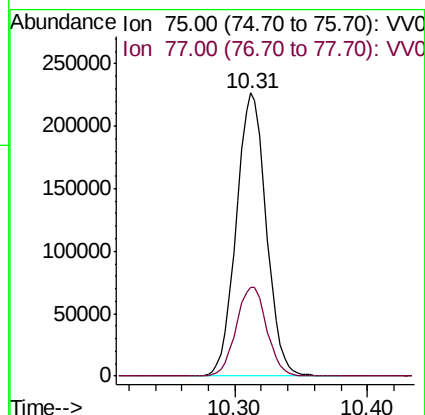
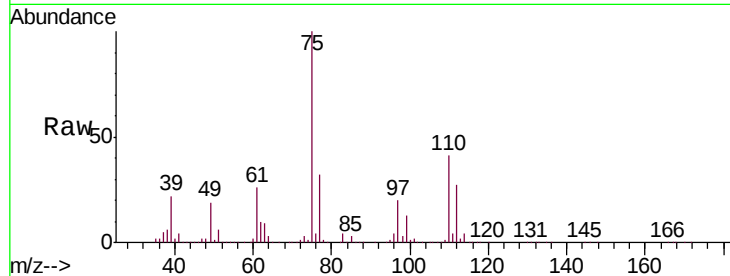
BFB81

Tgt Ion: 75 Resp: 354150

Ion Ratio Lower Upper

75 100

77 32.0 25.8 38.8



#61

Bromoform

Concen: 56.248 ug/L

RT: 9.77 min Scan# 2699

Delta R.T. -0.00 min

Lab File: VV014026.D

Acq: 12 Dec 2019 09:32

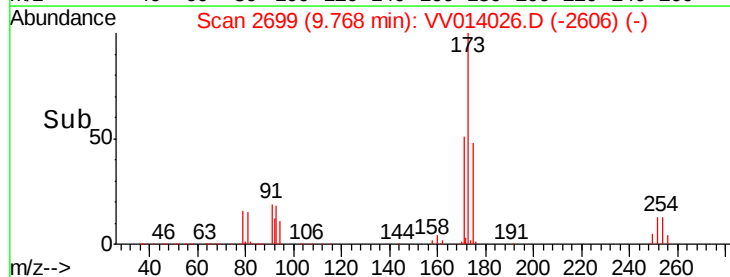
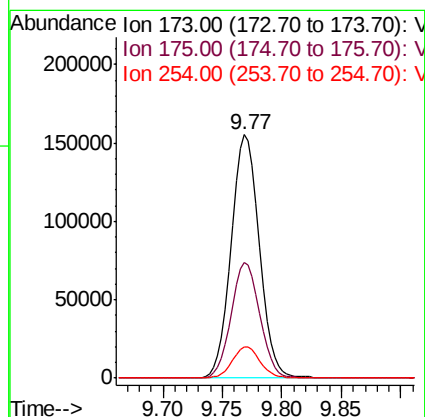
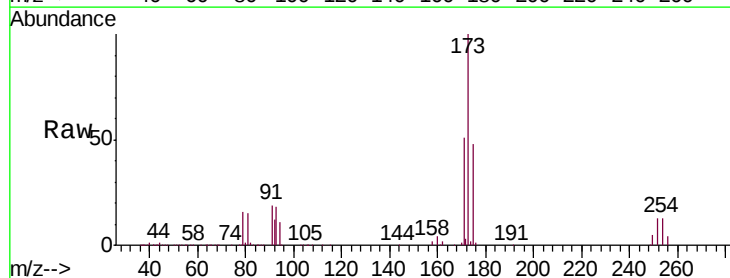
Tgt Ion: 173 Resp: 254731

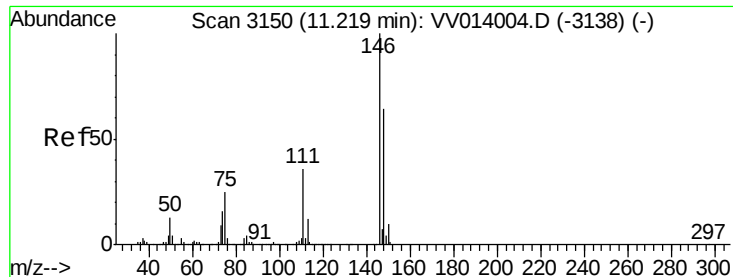
Ion Ratio Lower Upper

173 100

175 48.5 38.4 57.6

254 12.7 10.5 15.7





#62

1,3-Dichlorobenzene

Concen: 53.537 ug/L

RT: 11.22 min Scan# 3151

Delta R.T. 0.00 min

Lab File: VV014026.D

Acq: 12 Dec 2019 09:32

Instrument :

MSVOA_V

ClientSampled :

BFB81

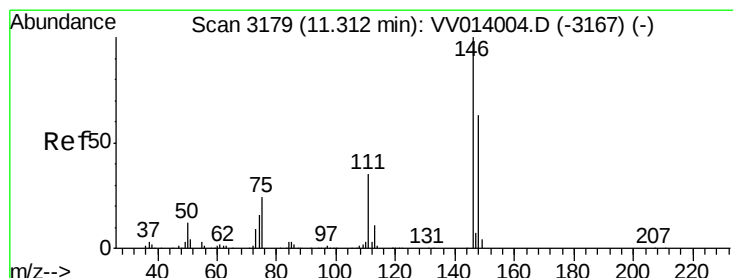
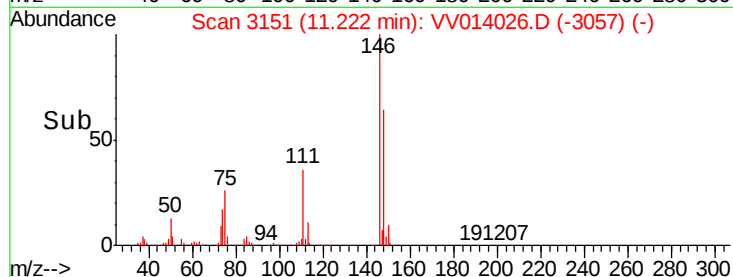
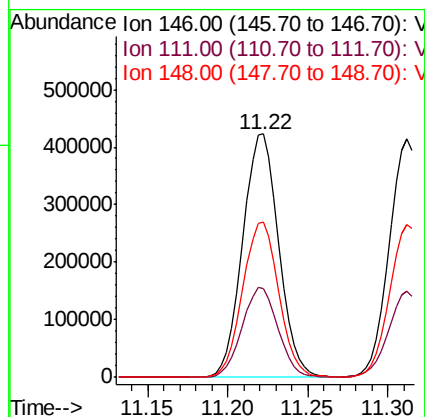
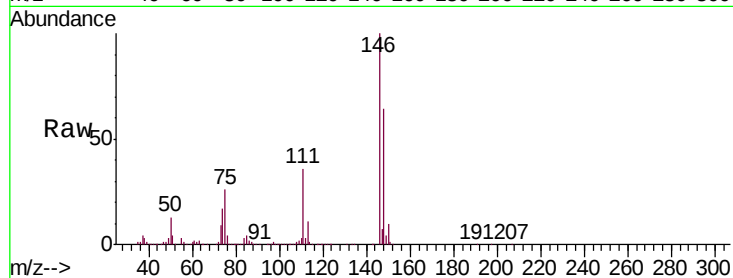
Tgt Ion:146 Resp: 650336

Ion Ratio Lower Upper

146 100

111 36.5 25.8 48.0

148 63.8 45.2 84.0



#63

1,4-Dichlorobenzene

Concen: 51.133 ug/L

RT: 11.31 min Scan# 3179

Delta R.T. -0.00 min

Lab File: VV014026.D

Acq: 12 Dec 2019 09:32

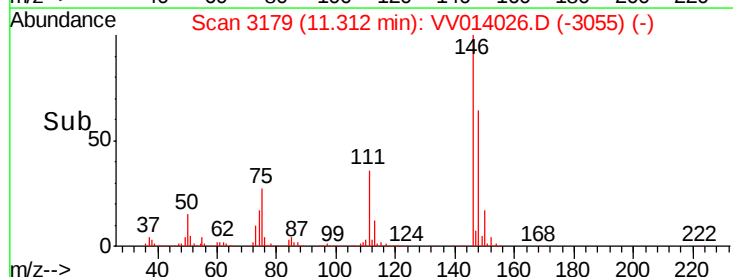
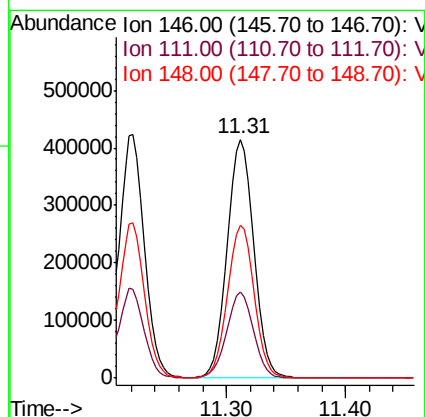
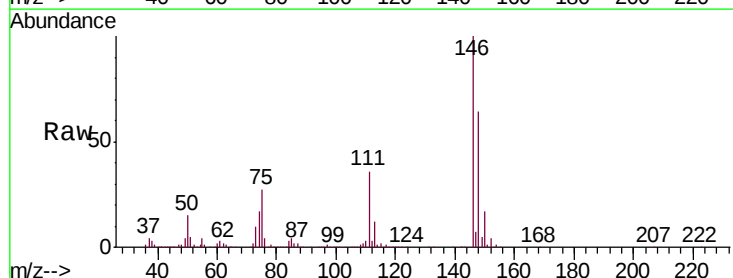
Tgt Ion:146 Resp: 642134

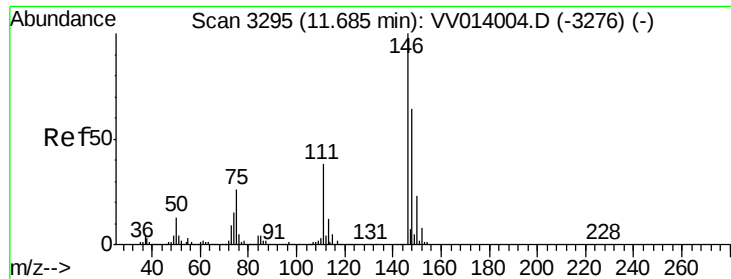
Ion Ratio Lower Upper

146 100

111 36.2 25.4 47.2

148 64.1 44.9 83.5

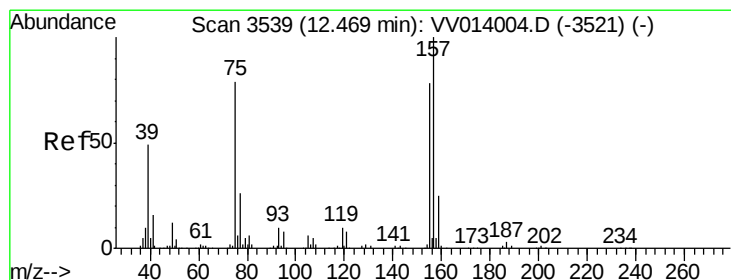
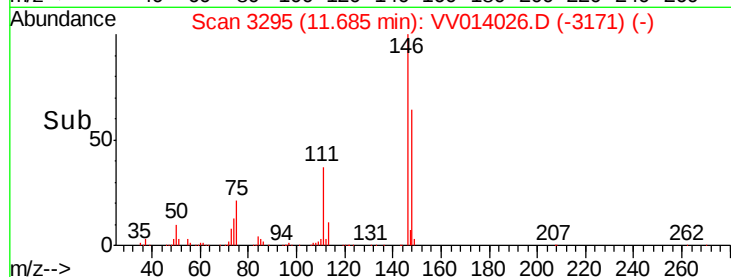
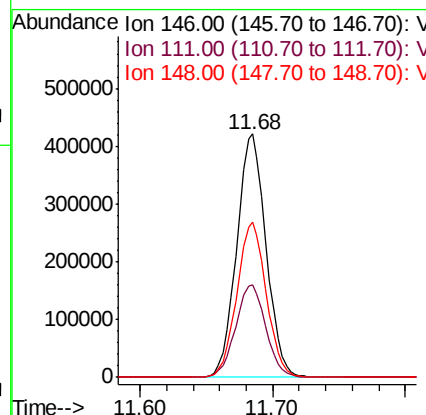
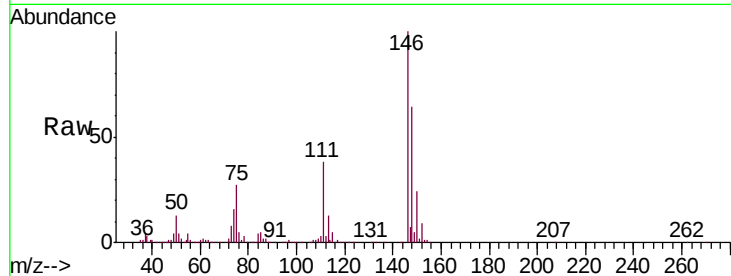




#65
 1,2-Dichlorobenzene
 Concen: 53.095 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. -0.00 min
 Lab File: VV014026.D
 Acq: 12 Dec 2019 09:32

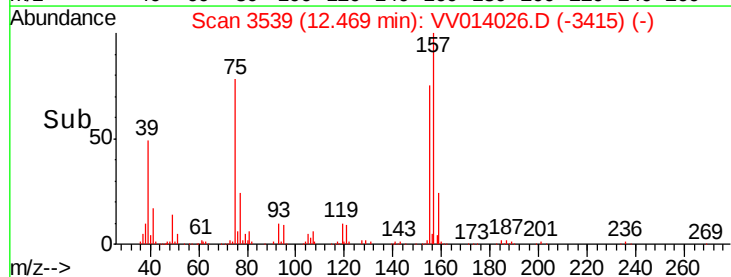
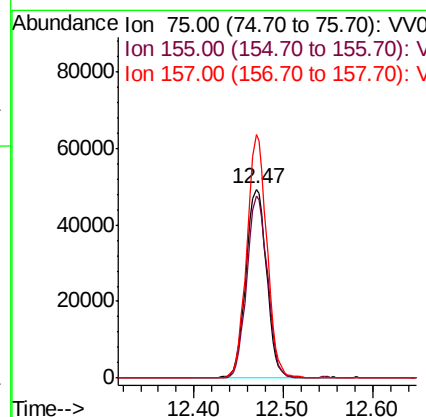
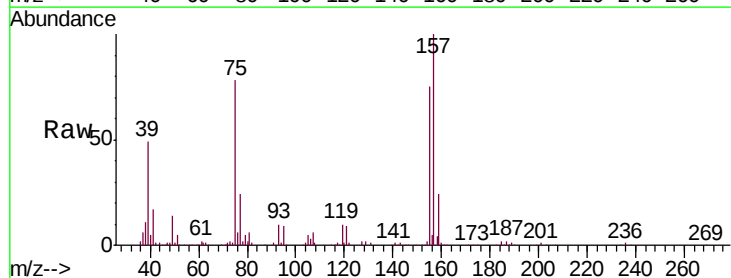
Instrument :
 MSVOA_V
 ClientSampled :
 BFB81

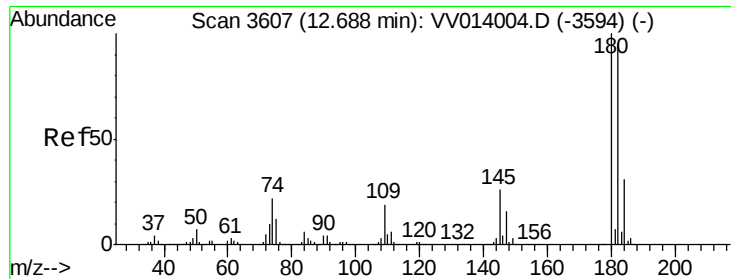
Tgt Ion:146 Resp: 645161
 Ion Ratio Lower Upper
 146 100
 111 37.9 31.4 47.0
 148 63.7 51.5 77.3



#66
 1,2-Dibromo-3-chloropropane
 Concen: 47.646 ug/L
 RT: 12.47 min Scan# 3539
 Delta R.T. -0.00 min
 Lab File: VV014026.D
 Acq: 12 Dec 2019 09:32

Tgt Ion: 75 Resp: 80459
 Ion Ratio Lower Upper
 75 100
 155 96.7 78.6 117.8
 157 128.9 102.6 153.8

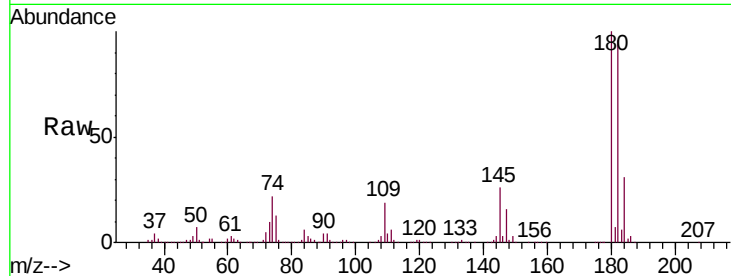




#67
 1,3,5-Trichlorobenzene
 Concen: 50.591 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. -0.00 min
 Lab File: VV014026.D
 Acq: 12 Dec 2019 09:32

Instrument :
 MSVOA_V
 ClientSampleId :
 BFB81

Tgt Ion:	180	Resp:	499063
Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.2	114.4
184	30.3	24.2	36.4
145	26.5	21.1	31.7



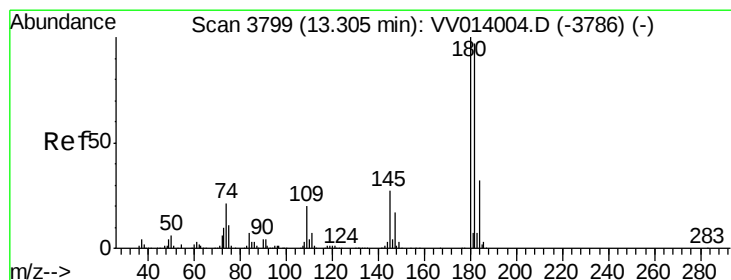
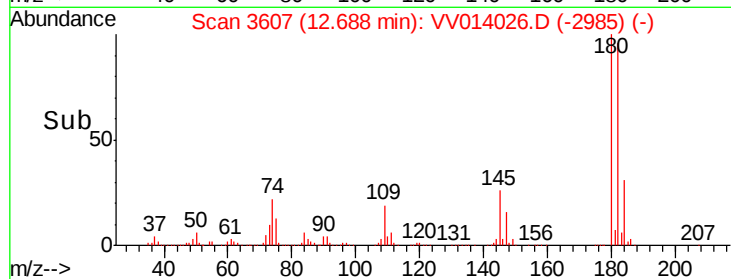
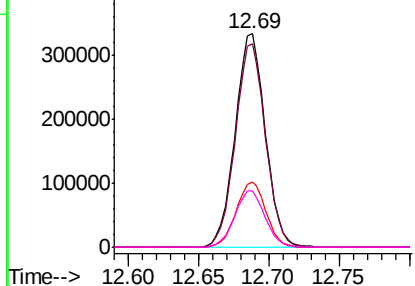
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

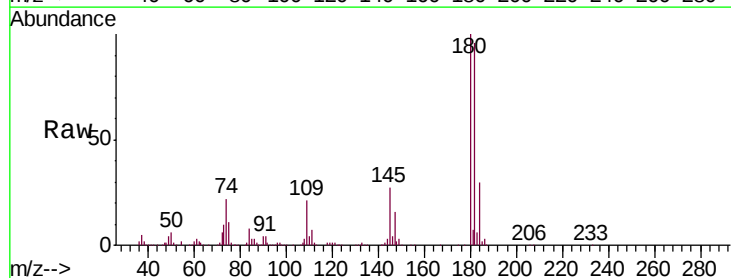
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 42.580 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. -0.00 min
 Lab File: VV014026.D
 Acq: 12 Dec 2019 09:32

Tgt Ion:	180	Resp:	379005
Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.2	114.4
145	27.4	21.9	32.9

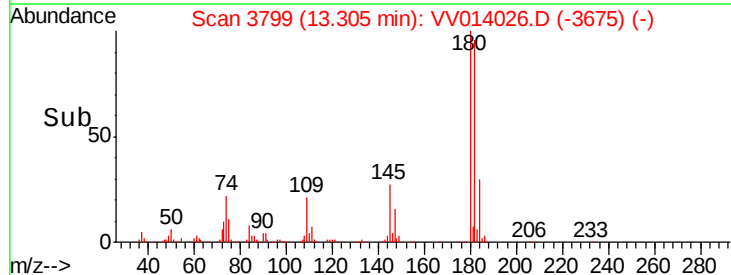
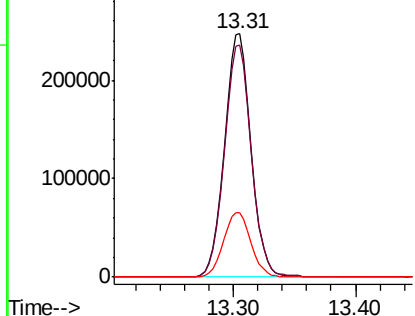


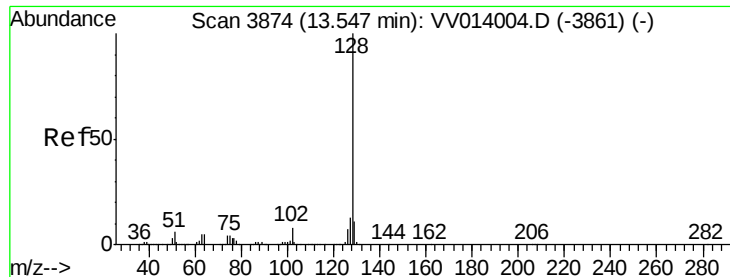
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 30.942 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. -0.00 min

Lab File: VV014026.D

Acq: 12 Dec 2019 09:32

Instrument :

MSVOA_V

ClientSampleId :

BFB81

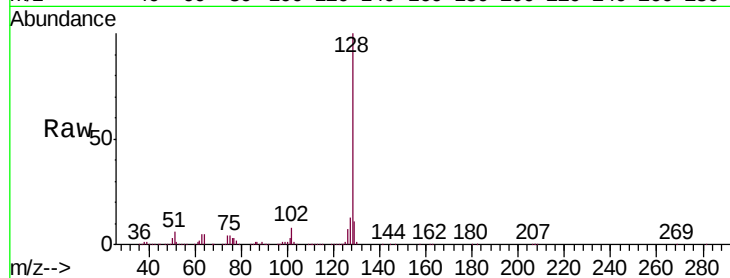
Tgt Ion:128 Resp: 723157

Ion Ratio Lower Upper

128 100

127 13.3 10.5 15.7

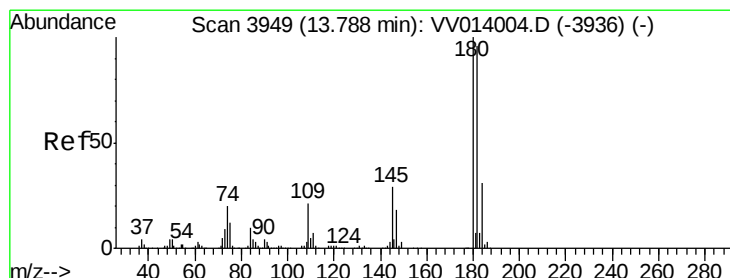
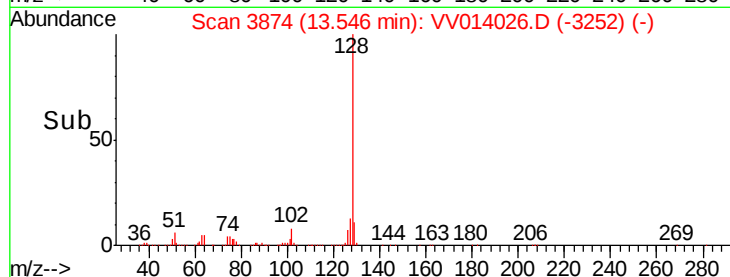
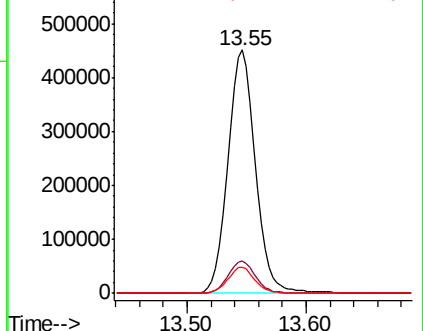
129 10.5 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 44.515 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. -0.00 min

Lab File: VV014026.D

Acq: 12 Dec 2019 09:32

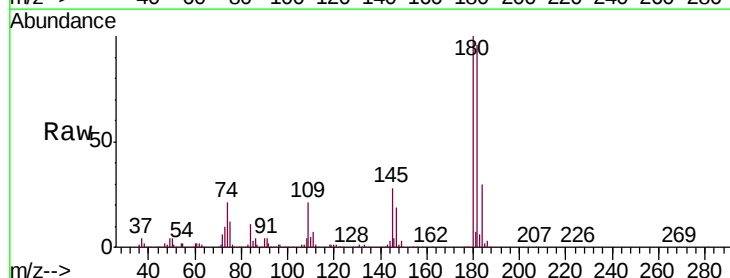
Tgt Ion:180 Resp: 414364

Ion Ratio Lower Upper

180 100

182 95.6 77.0 115.4

145 27.9 22.6 34.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

