

Data File : VU036134.D
Acq On : 11 Dec 2019 15:35
Operator : JC/MD
Sample : K6167-20
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFR92

Quant Time: Dec 12 06:15:28 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120919WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Dec 12 06:08:55 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	311764	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	336962	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	129727	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	136148	4.90	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	98.00%
7) Chloroethane-d5	1.93	69	127571	4.37	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.40%
11) 1,1-Dichloroethene-d2	2.59	63	145437	2.86	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	57.20%#
20) 2-Butanone-d5	4.70	46	267499	56.49	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	112.98%
24) Chloroform-d	5.11	84	220110	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.60%
26) 1,2-Dichloroethane-d4	5.75	65	109174	4.68	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.60%
32) Benzene-d6	5.77	84	414240	4.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.20%
36) 1,2-Dichloropropane-d6	6.73	67	135411	5.26	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	105.20%
41) Toluene-d8	7.93	98	329429	4.18	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	83.60%
43) trans-1,3-Dichloropropene-	8.21	79	48473	4.52	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.40%
46) 2-Hexanone-d5	8.68	63	204075	52.61	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	105.22%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	117403	4.96	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.20%
64) 1,2-Dichlorobenzene-d4	12.22	152	124548	4.99	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.80%

Target Compounds

					Qvalue
5) Vinyl chloride	1.62	62	24051	0.770 ug/L	83
8) Chloroethane	1.95	64	16508	0.695 ug/L	97
13) Acetone	2.68	43	192470	32.021 ug/L	95
15) Methyl Acetate	2.91	43	1641	0.185 ug/L #	60
16) Methylene chloride	3.08	84	9717	0.308 ug/L	96
19) 1,1-Dichloroethane	3.92	63	59789	1.439 ug/L	99
21) 2-Butanone	4.78	43	11941	1.985 ug/L	96
22) cis-1,2-Dichloroethene	4.72	96	58285	2.399 ug/L	99
25) Chloroform	5.14	83	49002	1.058 ug/L	92
29) 1,1,1-Trichloroethane	5.36	97	25328	0.667 ug/L	97
31) Carbon tetrachloride	5.36	117	3450	0.100 ug/L	96
33) Benzene	5.82	78	67891	0.737 ug/L	100
35) Methylcyclohexane	6.73	83	31919	0.973 ug/L #	18
37) 1,2-Dichloropropane	6.73	63	13694	0.593 ug/L #	87
38) Bromodichloromethane	7.14	83	6695	0.216 ug/L	97
39) cis-1,3-Dichloropropene	7.60	75	3104	0.099 ug/L #	57
42) Toluene	8.00	91	15785	0.160 ug/L	92

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Quant Title : TRACE VOA SOM01.0
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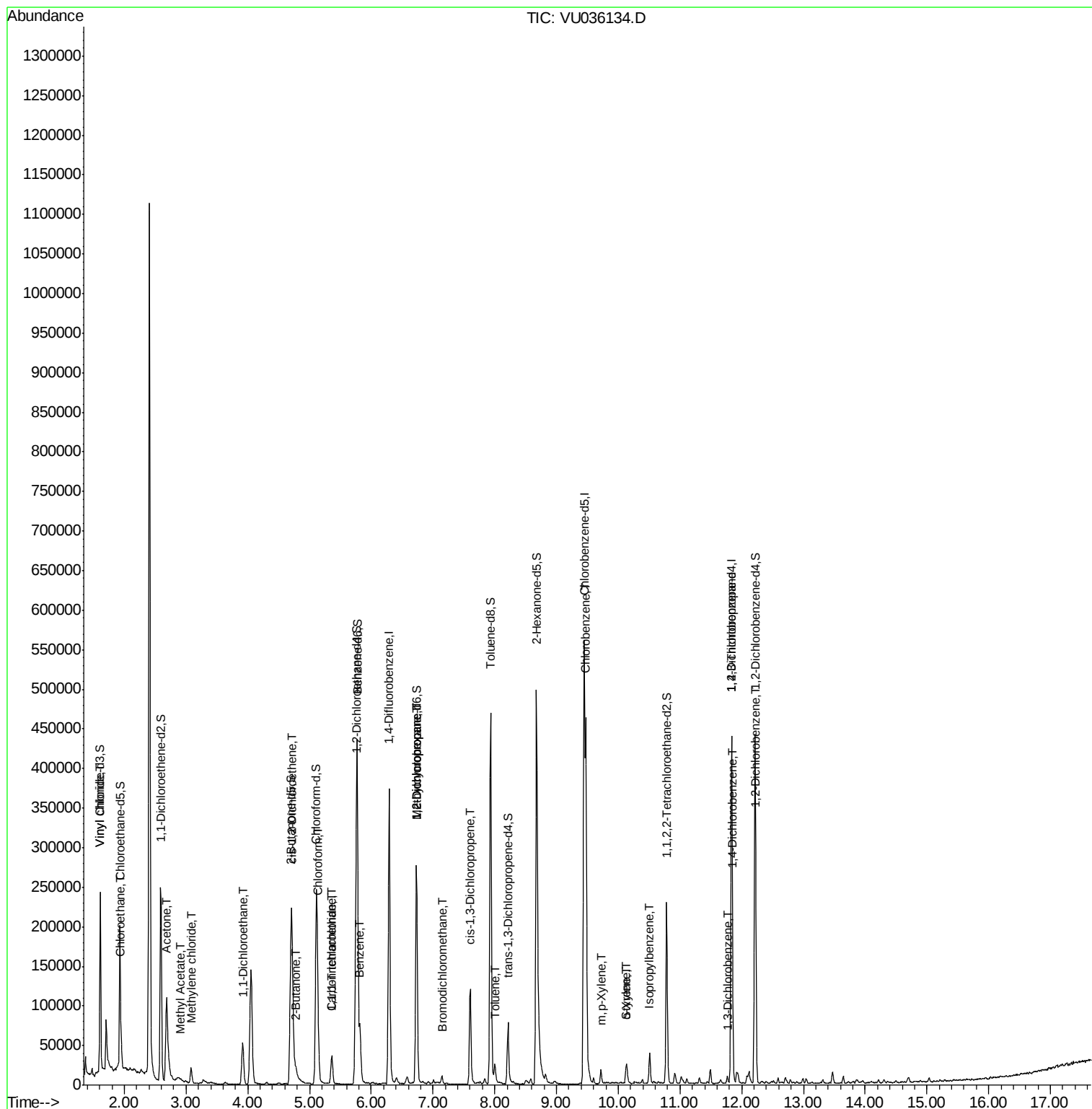
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Chlorobenzene	9.48	112	245216	3.562	ug/L	99
53) m,p-Xylene	9.72	106	4431	0.108	ug/L	91
54) o-Xylene	10.13	106	5065	0.131	ug/L	74
55) Styrene	10.14	104	8104	0.122	ug/L	98
56) Isopropylbenzene	10.51	105	23107	0.226	ug/L	97
59) 1,2,3-Trichloropropane	11.84	75	15768	0.955	ug/L	100
62) 1,3-Dichlorobenzene	11.77	146	2658	0.063	ug/L	95
63) 1,4-Dichlorobenzene	11.86	146	8344	0.200	ug/L	90
65) 1,2-Dichlorobenzene	12.24	146	7348	0.175	ug/L	97

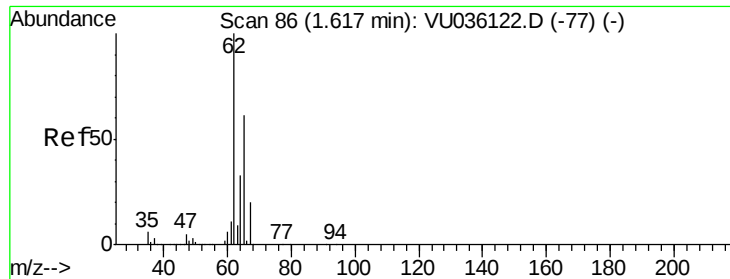
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.770 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

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Instrument :

MSVOA_U

ClientSampleId :

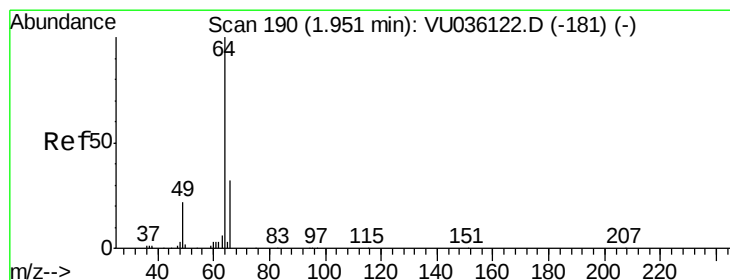
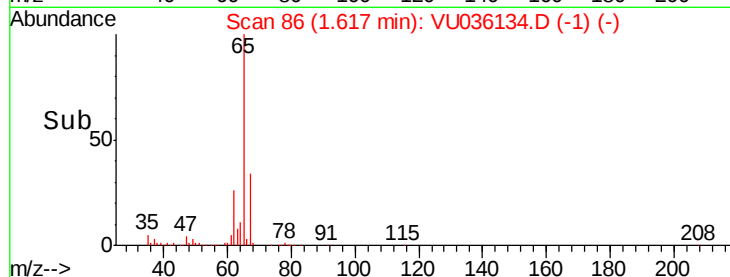
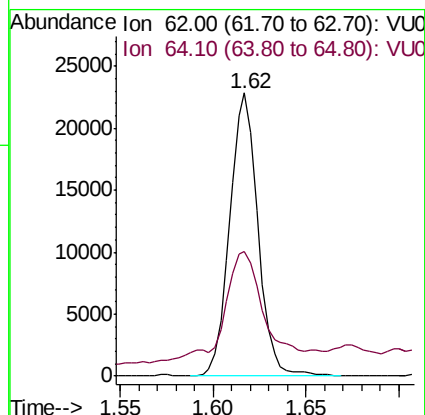
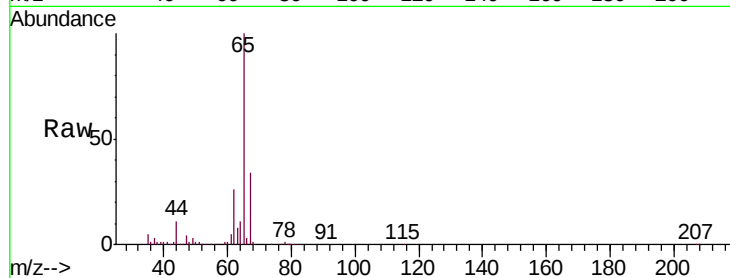
BFR92

Tgt Ion: 62 Resp: 24051

Ion Ratio Lower Upper

62 100

64 44.3 24.3 45.1



#8

Chloroethane

Concen: 0.695 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU036134.D

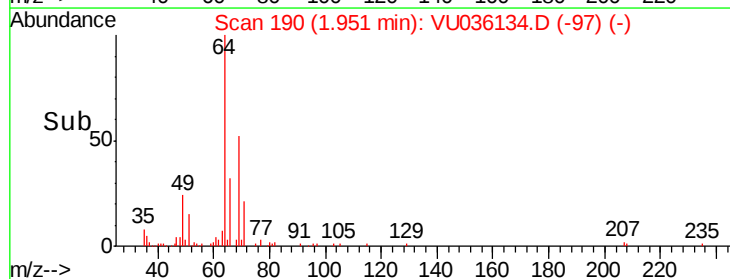
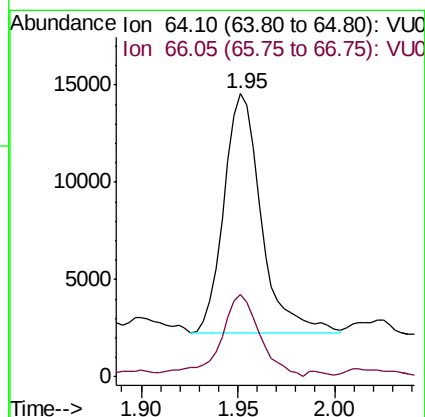
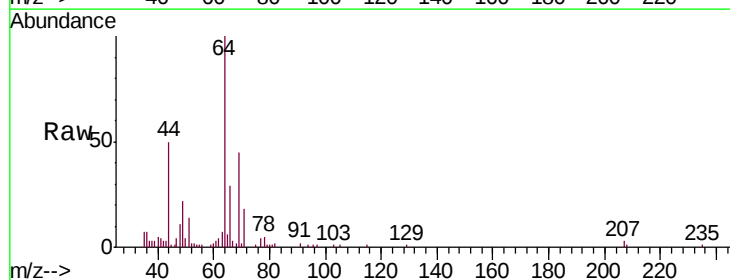
Acq: 11 Dec 2019 15:35

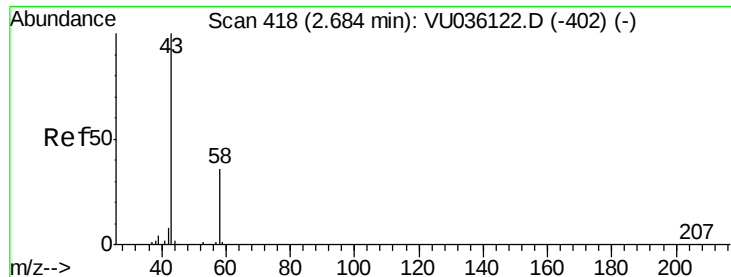
Tgt Ion: 64 Resp: 16508

Ion Ratio Lower Upper

64 100

66 29.1 21.5 39.9





#13

Acetone

Concen: 32.021 ug/L

RT: 2.68 min Scan# 418

Delta R.T. 0.00 min

Lab File: VU036134.D

Acq: 11 Dec 2019 15:35

Instrument :

MSVOA_U

ClientSampleId :

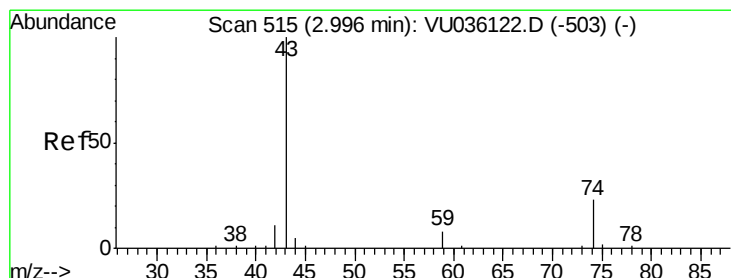
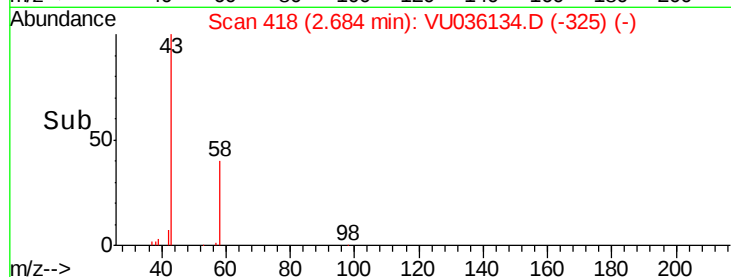
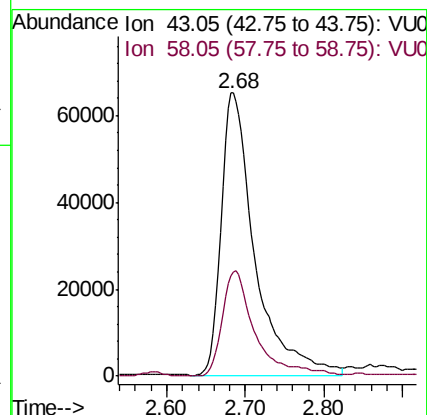
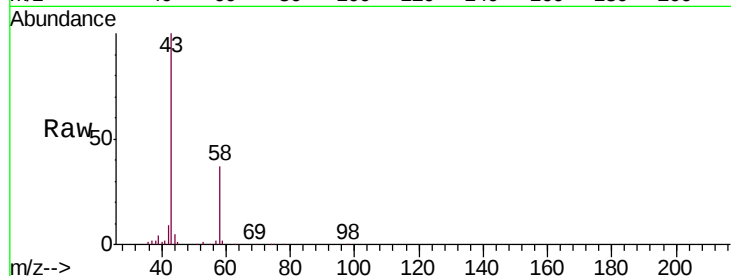
BFR92

Tgt Ion: 43 Resp: 192470

Ion Ratio Lower Upper

43 100

58 34.1 0.0 74.2



#15

Methyl Acetate

Concen: 0.185 ug/L

RT: 2.91 min Scan# 489

Delta R.T. -0.08 min

Lab File: VU036134.D

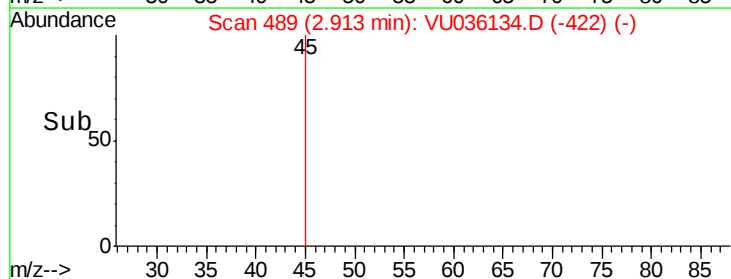
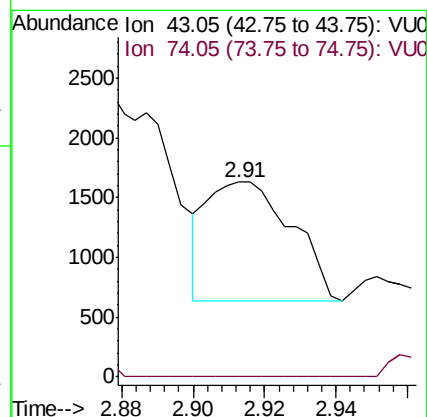
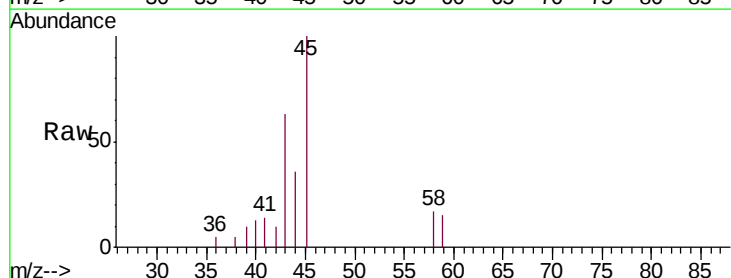
Acq: 11 Dec 2019 15:35

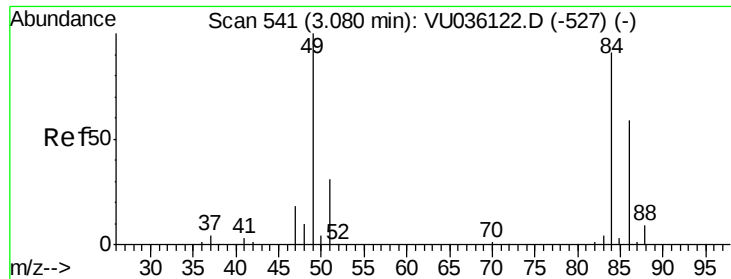
Tgt Ion: 43 Resp: 1641

Ion Ratio Lower Upper

43 100

74 5.7 21.0 31.4#

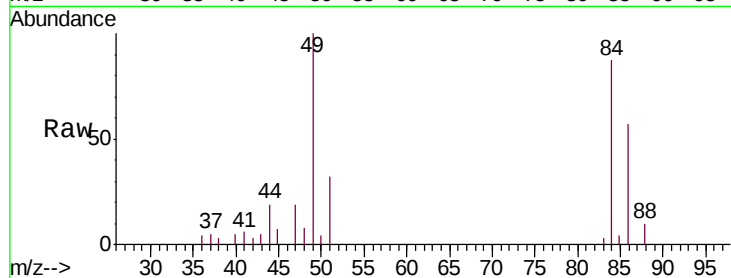




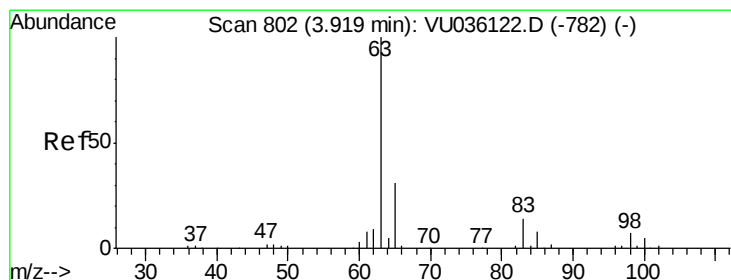
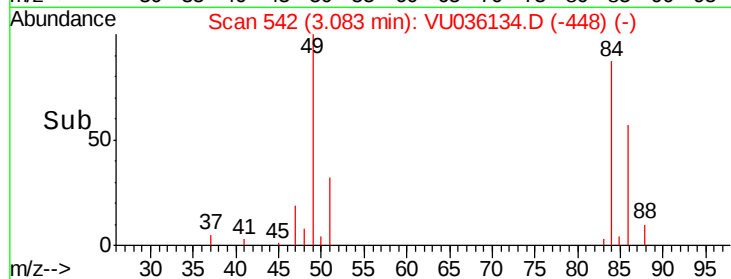
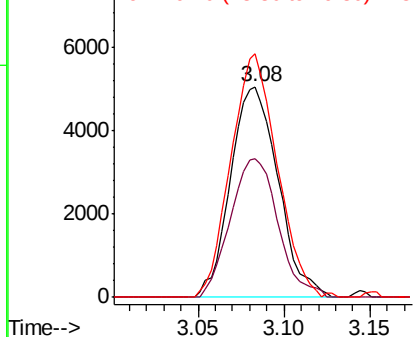
#16
Methylene chloride
Concen: 0.308 ug/L
RT: 3.08 min Scan# 542
Delta R.T. 0.00 min
Lab File: VU036134.D
Acq: 11 Dec 2019 15:35

Instrument :
MSVOA_U
ClientSampleId :
BFR92

Tgt Ion: 84 Resp: 9717
Ion Ratio Lower Upper
84 100
86 65.8 47.5 88.3
49 115.5 76.9 142.9

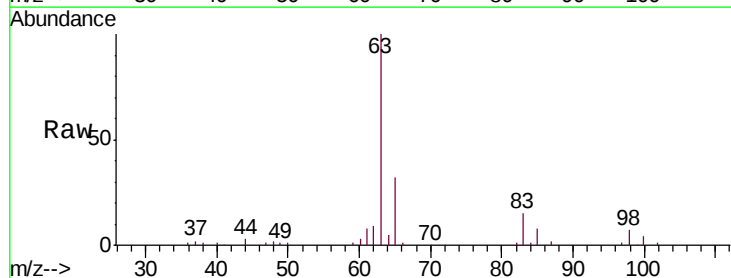


Abundance Ion 84.05 (83.75 to 84.75): VU0
Ion 86.00 (85.70 to 86.70): VU0
Ion 49.10 (48.80 to 49.80): VU0

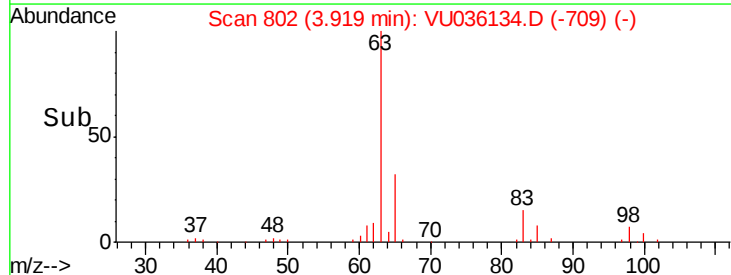
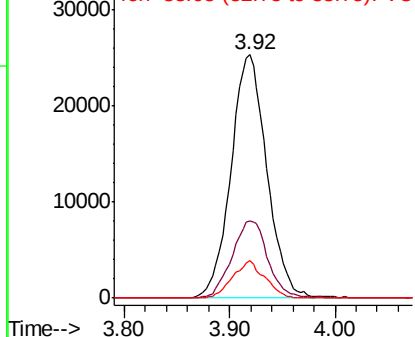


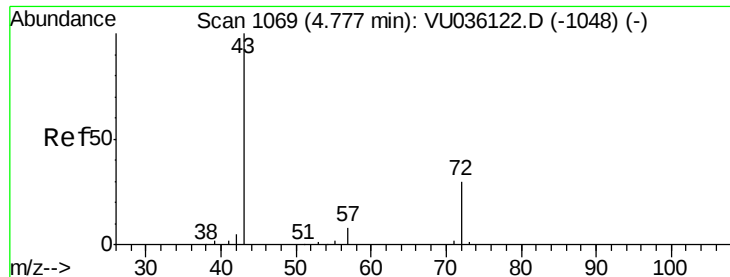
#19
1,1-Dichloroethane
Concen: 1.439 ug/L
RT: 3.92 min Scan# 802
Delta R.T. 0.00 min
Lab File: VU036134.D
Acq: 11 Dec 2019 15:35

Tgt Ion: 63 Resp: 59789
Ion Ratio Lower Upper
63 100
65 31.5 21.8 40.4
83 15.2 10.1 18.9



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 65.10 (64.80 to 65.80): VU0
Ion 83.05 (82.75 to 83.75): VU0





#21

2-Butanone

Concen: 1.985 ug/L

RT: 4.78 min Scan# 1070

Delta R.T. 0.00 min

Lab File: VU036134.D

Acq: 11 Dec 2019 15:35

Instrument :

MSVOA_U

ClientSampled :

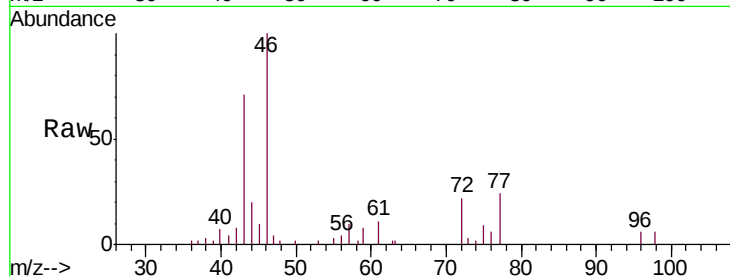
BFR92

Tgt Ion: 43 Resp: 11941

Ion Ratio Lower Upper

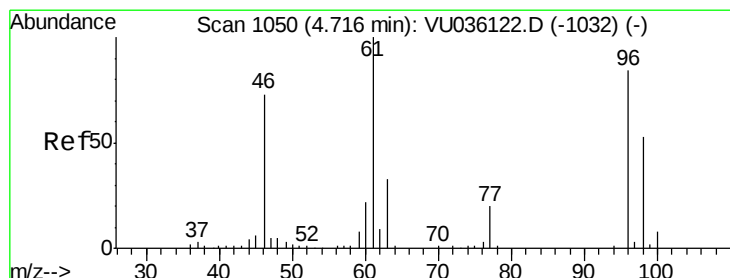
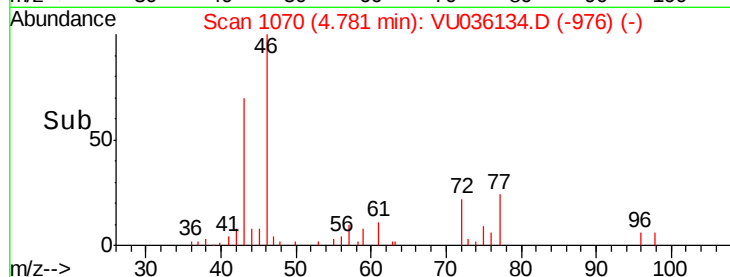
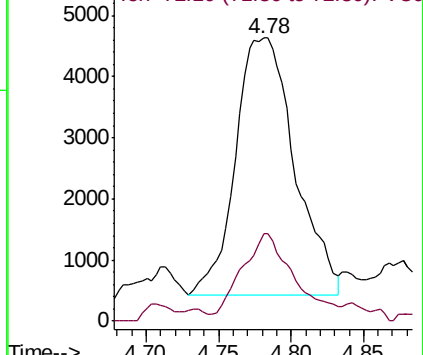
43 100

72 27.6 15.0 45.0



Abundance Ion 43.05 (42.75 to 43.75): VU036122.D (-1048) (-)

Ion 72.10 (71.80 to 72.80): VU036122.D (-1048) (-)



#22

cis-1,2-Dichloroethene

Concen: 2.399 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VU036134.D

Acq: 11 Dec 2019 15:35

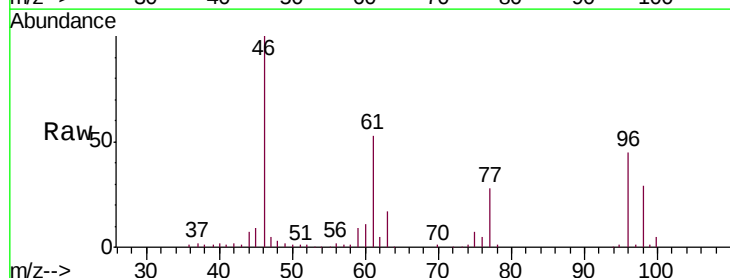
Tgt Ion: 96 Resp: 58285

Ion Ratio Lower Upper

96 100

61 117.8 83.0 154.2

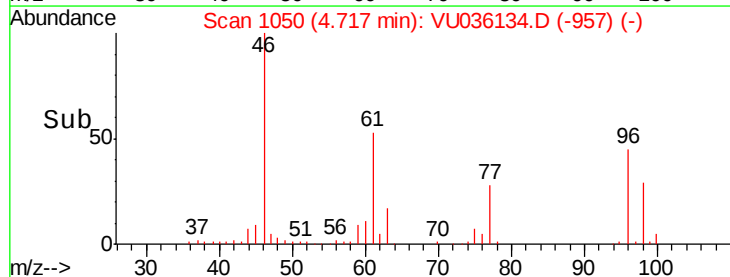
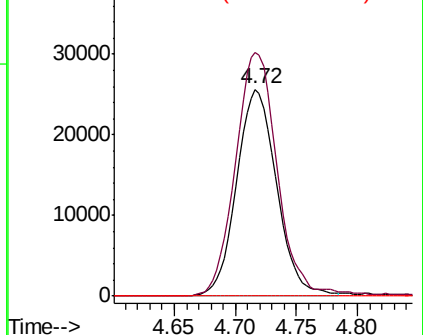
68 0.0 0.0 0.0

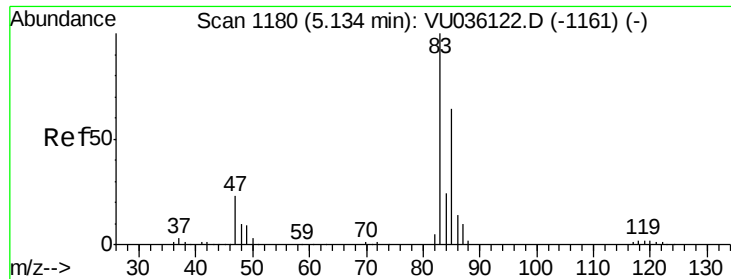


Abundance Ion 96.00 (95.70 to 96.70): VU036122.D (-1032) (-)

Ion 61.05 (60.75 to 61.75): VU036122.D (-1032) (-)

Ion 68.15 (67.85 to 68.85): VU036122.D (-1032) (-)

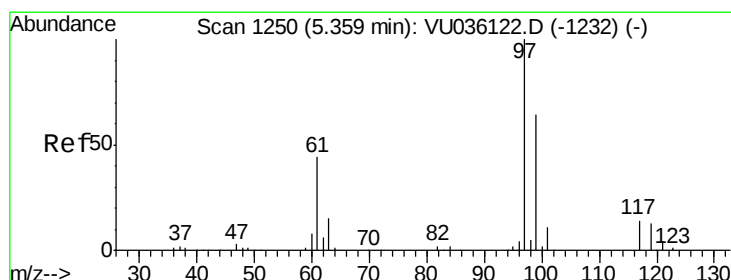
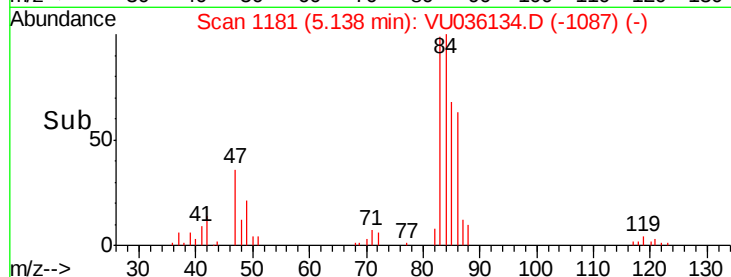
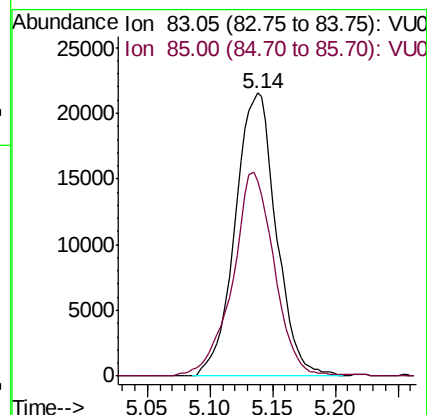
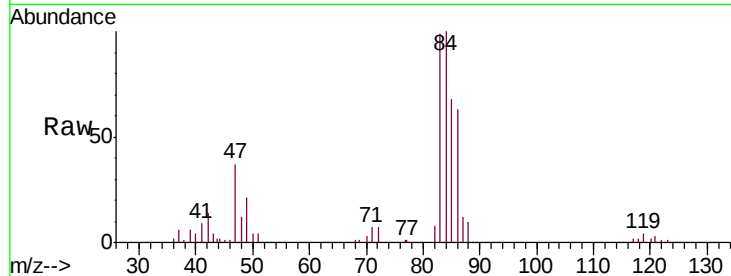




#25
Chloroform
Concen: 1.058 ug/L
RT: 5.14 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VU036134.D
Acq: 11 Dec 2019 15:35

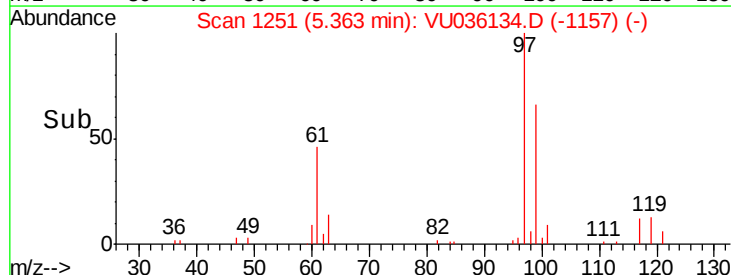
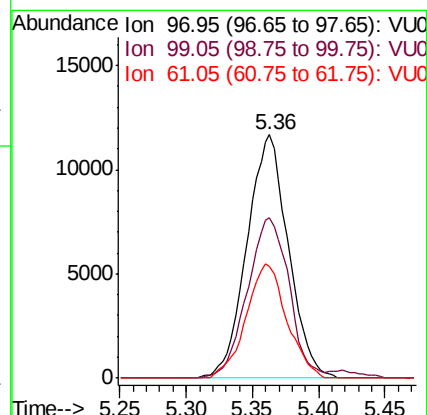
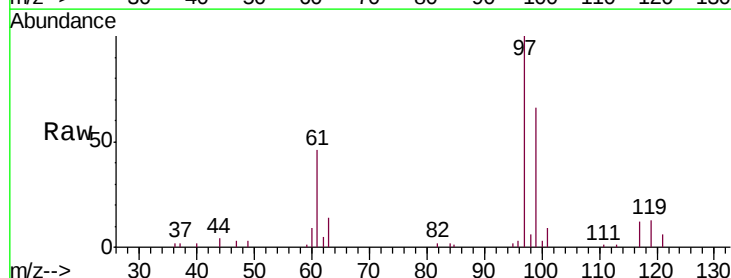
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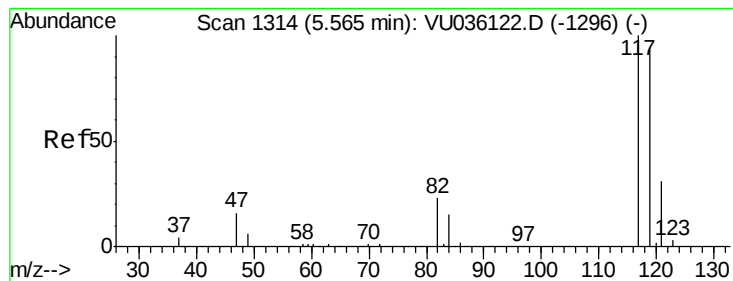
Tgt Ion: 83 Resp: 49002
Ion Ratio Lower Upper
83 100
85 69.0 43.9 81.5



#29
1,1,1-Trichloroethane
Concen: 0.667 ug/L
RT: 5.36 min Scan# 1251
Delta R.T. 0.00 min
Lab File: VU036134.D
Acq: 11 Dec 2019 15:35

Tgt Ion: 97 Resp: 25328
Ion Ratio Lower Upper
97 100
99 66.5 52.2 78.2
61 46.1 34.7 52.1





#31

Carbon tetrachloride

Concen: 0.100 ug/L

RT: 5.36 min Scan# 1250

Delta R.T. -0.21 min

Lab File: VU036134.D

Acq: 11 Dec 2019 15:35

Instrument :

MSVOA_U

ClientSampled :

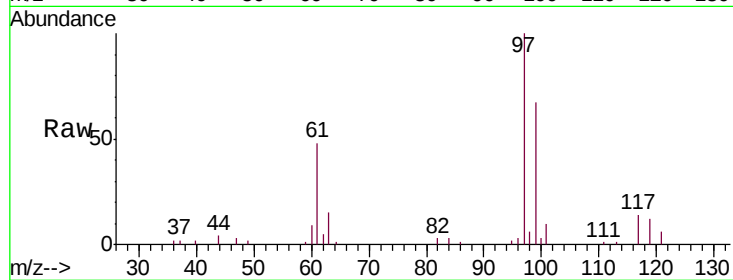
BFR92

Tgt Ion:117 Resp: 3450

Ion Ratio Lower Upper

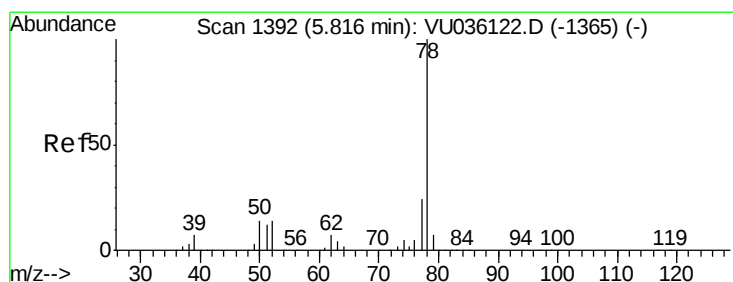
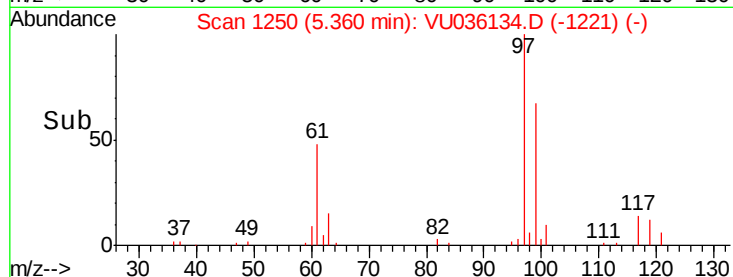
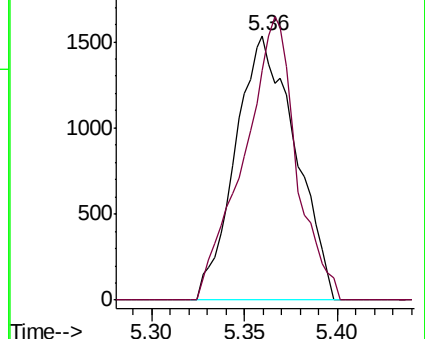
117 100

119 94.0 78.2 117.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.737 ug/L

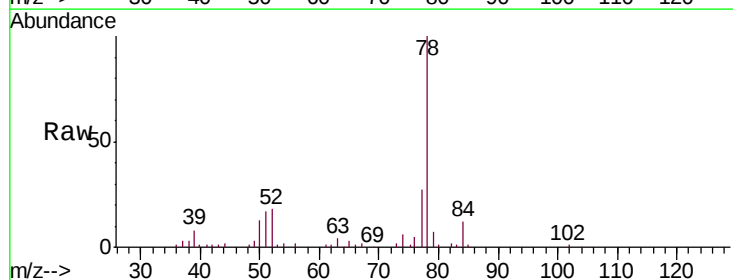
RT: 5.82 min Scan# 1392

Delta R.T. 0.00 min

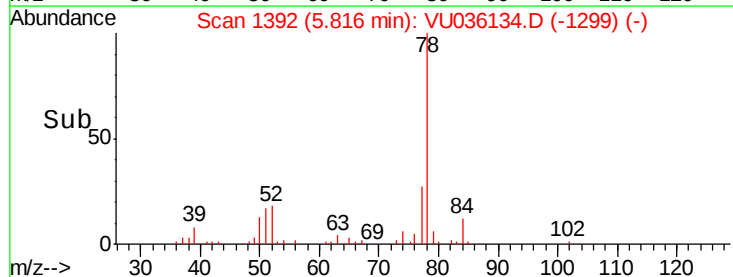
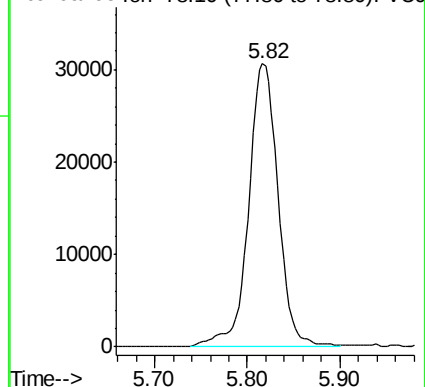
Lab File: VU036134.D

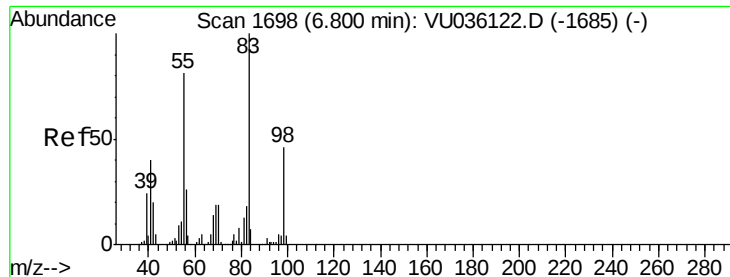
Acq: 11 Dec 2019 15:35

Tgt Ion: 78 Resp: 67891



Abundance Ion 78.10 (77.80 to 78.80): VU0

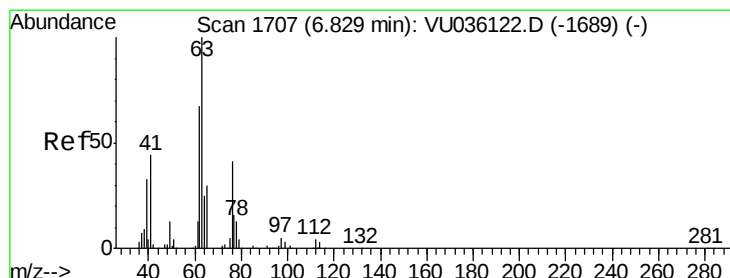
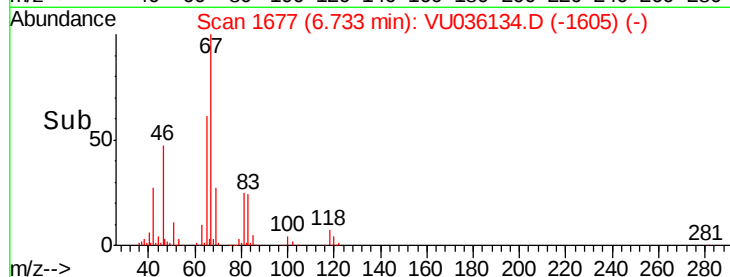
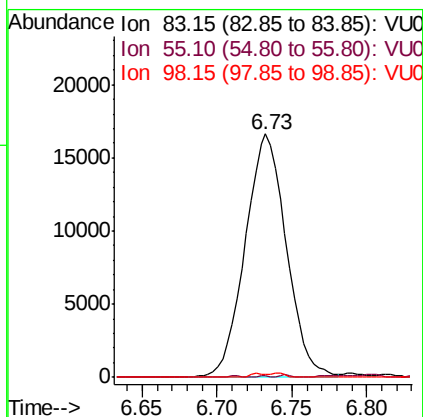
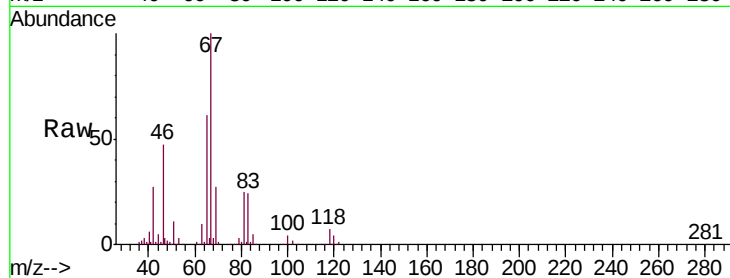




#35
Methylcyclohexane
Concen: 0.973 ug/L
RT: 6.73 min Scan# 1677
Delta R.T. -0.07 min
Lab File: VU036134.D
Acq: 11 Dec 2019 15:35

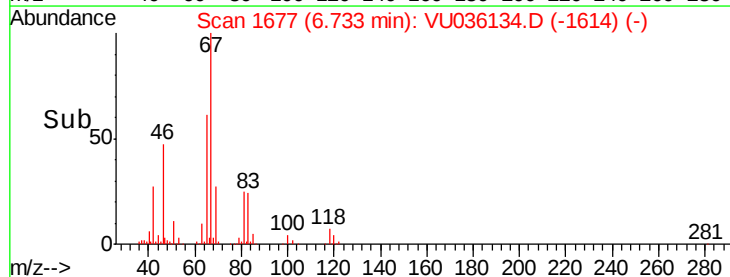
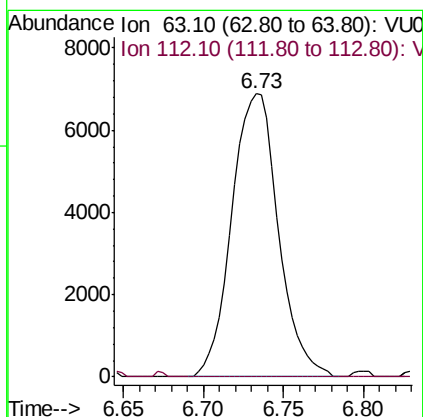
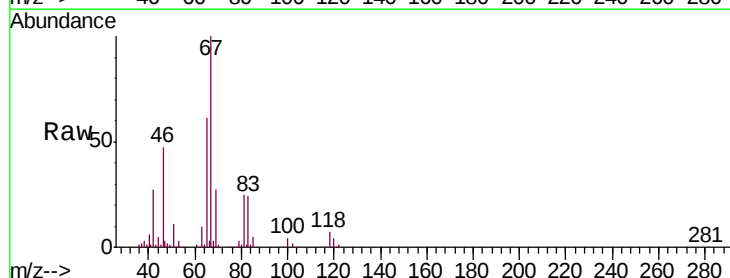
Instrument :
MSVOA_U
ClientSampleId :
BFR92

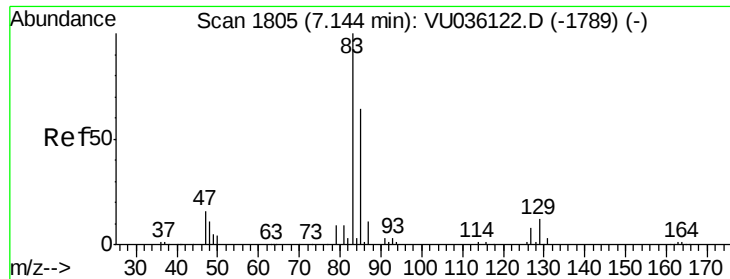
Tgt Ion: 83 Resp: 31919
Ion Ratio Lower Upper
83 100
55 0.1 62.1 93.1#
98 0.5 37.0 55.4#



#37
1,2-Dichloropropane
Concen: 0.593 ug/L
RT: 6.73 min Scan# 1677
Delta R.T. -0.10 min
Lab File: VU036134.D
Acq: 11 Dec 2019 15:35

Tgt Ion: 63 Resp: 13694
Ion Ratio Lower Upper
63 100
112 0.3 3.8 5.8#

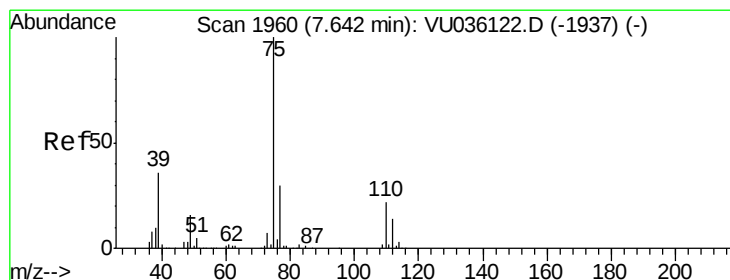
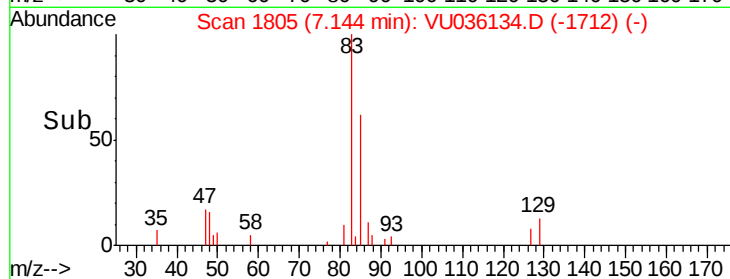
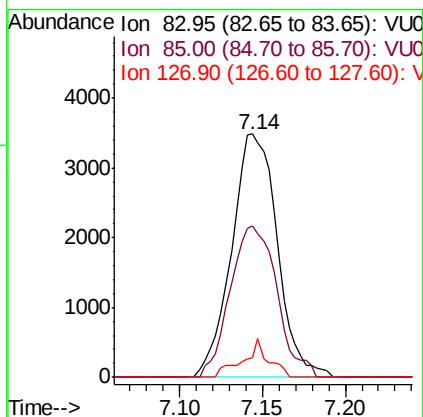
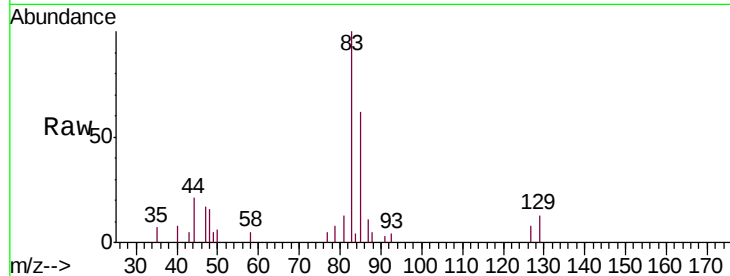




#38
 Bromodichloromethane
 Concen: 0.216 ug/L
 RT: 7.14 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VU036134.D
 Acq: 11 Dec 2019 15:35

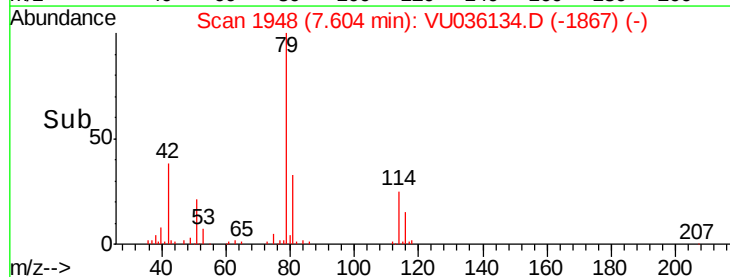
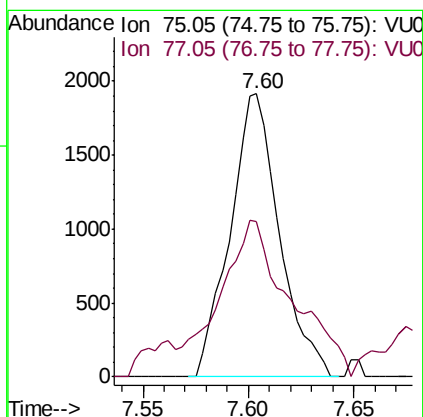
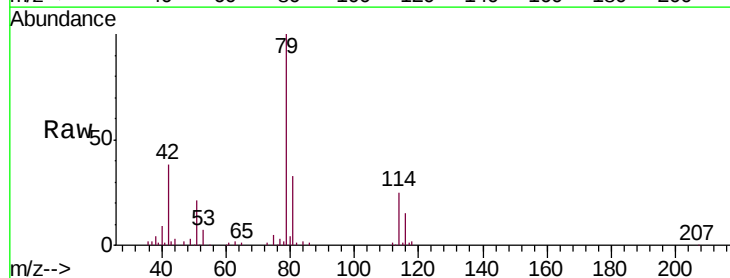
Instrument :
 MSVOA_U
 ClientSampleId :
 BFR92

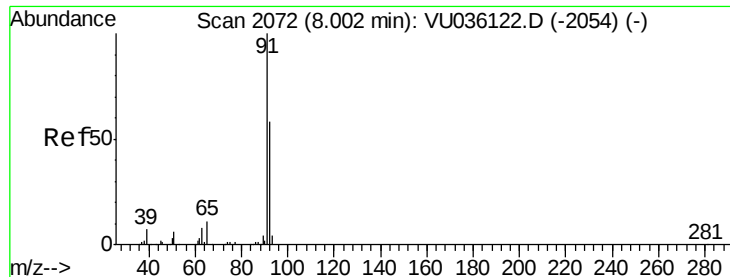
Tgt Ion: 83 Resp: 6695
 Ion Ratio Lower Upper
 83 100
 85 62.2 45.2 84.0
 127 8.0 7.4 11.2



#39
 cis-1,3-Dichloropropene
 Concen: 0.099 ug/L
 RT: 7.60 min Scan# 1948
 Delta R.T. -0.04 min
 Lab File: VU036134.D
 Acq: 11 Dec 2019 15:35

Tgt Ion: 75 Resp: 3104
 Ion Ratio Lower Upper
 75 100
 77 54.8 21.7 40.3#





#42

Toluene

Concen: 0.160 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU036134.D

Acq: 11 Dec 2019 15:35

Instrument :

MSVOA_U

ClientSampleId :

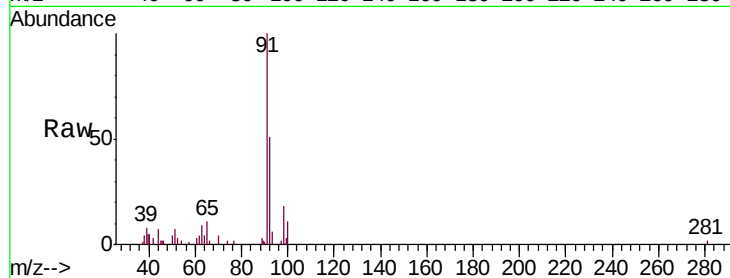
BFR92

Tgt Ion: 91 Resp: 15785

Ion Ratio Lower Upper

91 100

92 51.5 40.0 74.4

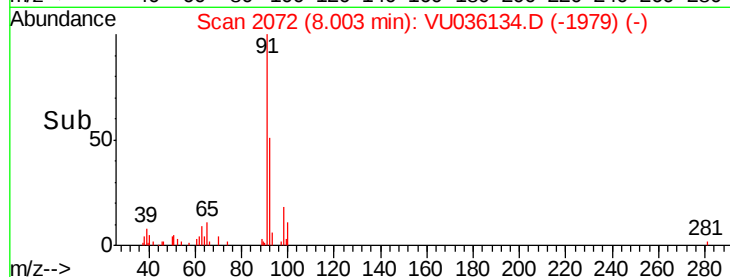


Abundance Ion 91.15 (90.85 to 91.85): VU036122.D (-2054) (-)

Ion 92.15 (91.85 to 92.85): VU036122.D (-2054) (-)

8.00

Time-->



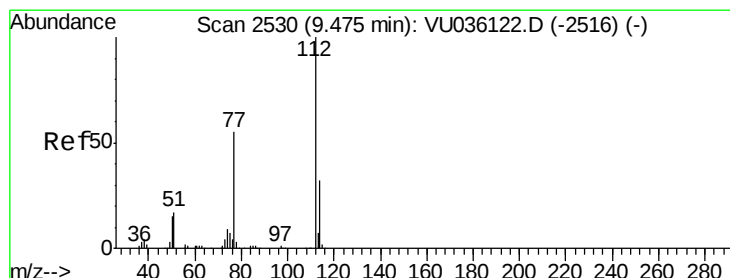
Abundance

Ion 91.15 (90.85 to 91.85): VU036134.D (-1979) (-)

Ion 92.15 (91.85 to 92.85): VU036134.D (-1979) (-)

8.00

Time-->



#51

Chlorobenzene

Concen: 3.562 ug/L

RT: 9.48 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU036134.D

Acq: 11 Dec 2019 15:35

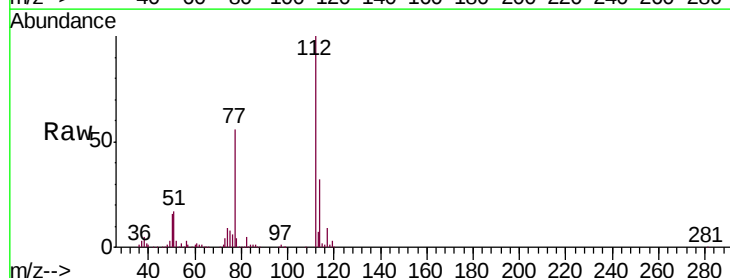
Tgt Ion: 112 Resp: 245216

Ion Ratio Lower Upper

112 100

114 32.0 22.3 41.5

77 56.2 43.8 65.8



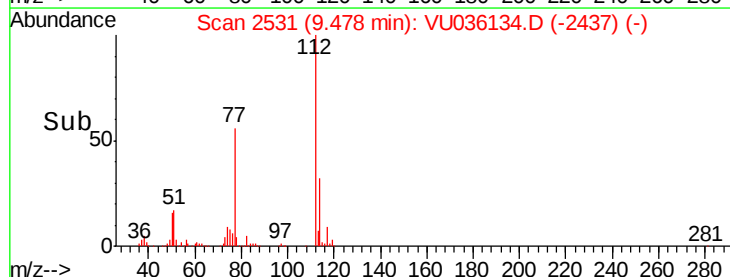
Abundance Ion 112.10 (111.80 to 112.80): VU036122.D (-2516) (-)

Ion 114.05 (113.75 to 114.75): VU036122.D (-2516) (-)

Ion 77.10 (76.80 to 77.80): VU036122.D (-2516) (-)

9.48

Time-->



Abundance

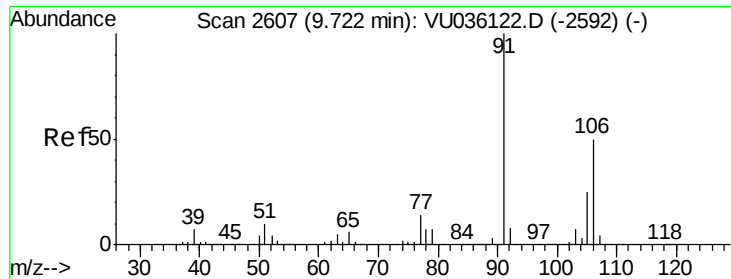
Ion 112.10 (111.80 to 112.80): VU036134.D (-2437) (-)

Ion 114.05 (113.75 to 114.75): VU036134.D (-2437) (-)

Ion 77.10 (76.80 to 77.80): VU036134.D (-2437) (-)

9.48

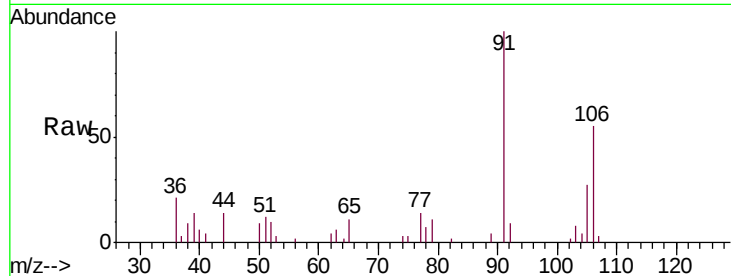
Time-->



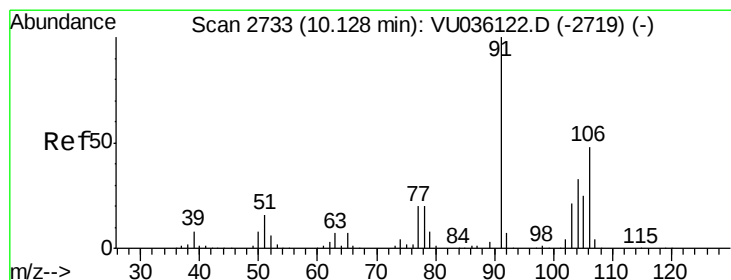
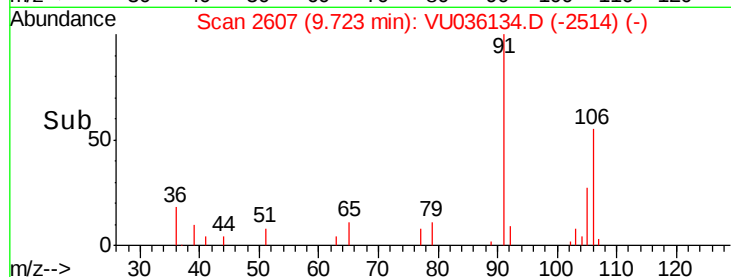
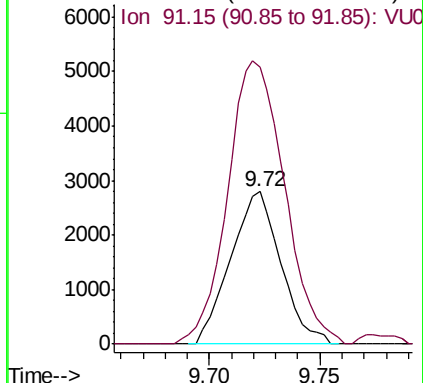
#53
m,p-Xylene
Concen: 0.108 ug/L
RT: 9.72 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VU036134.D
Acq: 11 Dec 2019 15:35

Instrument :
MSVOA_U
ClientSampleId :
BFR92

Tgt Ion:106 Resp: 4431
Ion Ratio Lower Upper
106 100
91 181.6 136.9 254.3

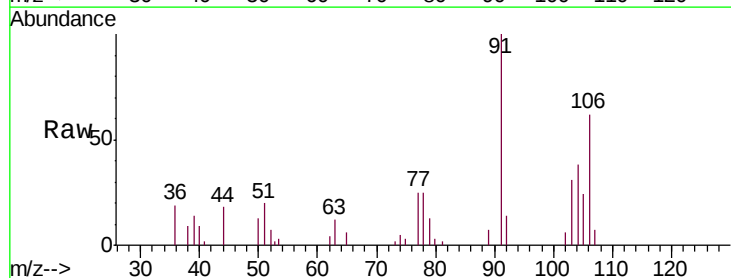


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

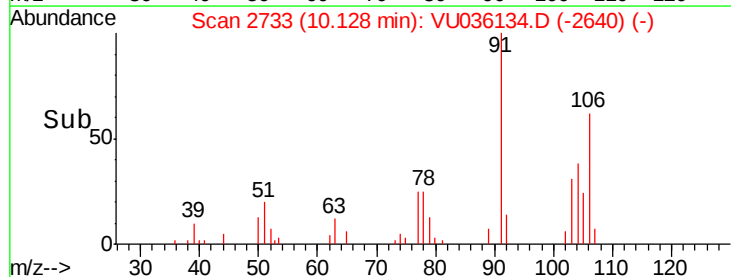
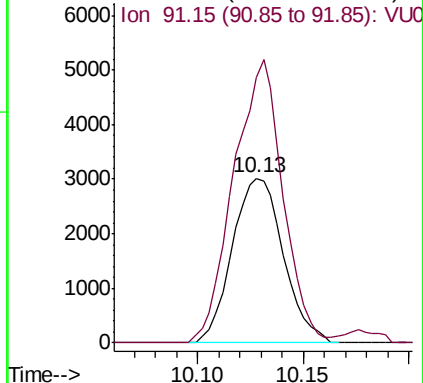


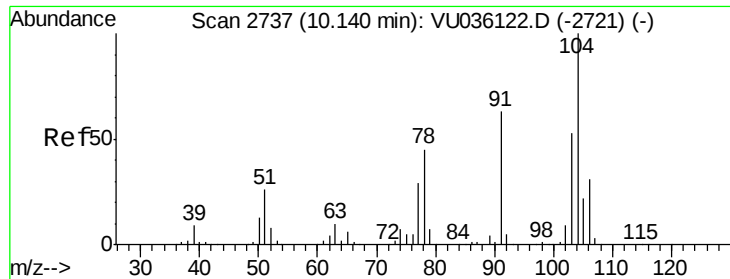
#54
o-Xylene
Concen: 0.131 ug/L
RT: 10.13 min Scan# 2733
Delta R.T. 0.00 min
Lab File: VU036134.D
Acq: 11 Dec 2019 15:35

Tgt Ion:106 Resp: 5065
Ion Ratio Lower Upper
106 100
91 161.4 140.6 261.2



Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0





#55

Styrene

Concen: 0.122 ug/L

RT: 10.14 min Scan# 2738

Delta R.T. 0.00 min

Lab File: VU036134.D

Acq: 11 Dec 2019 15:35

Instrument :

MSVOA_U

ClientSampled :

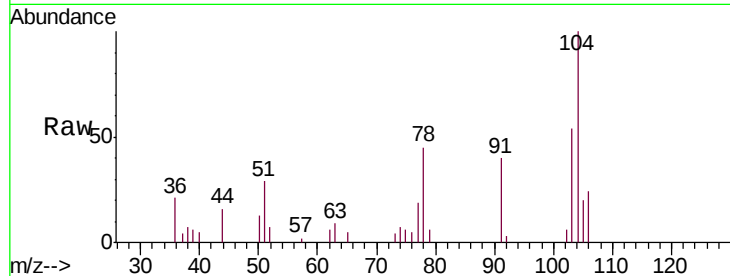
BFR92

Tgt Ion:104 Resp: 8104

Ion Ratio Lower Upper

104 100

78 45.0 30.5 56.7



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0

10.14

4000

3000

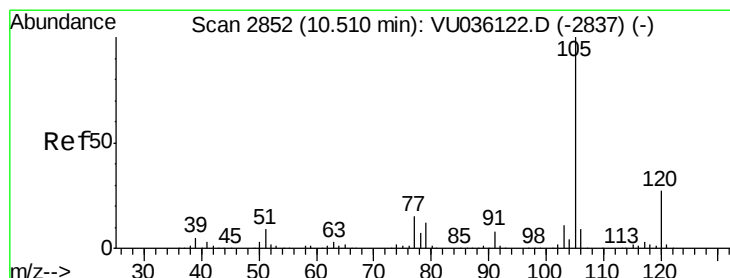
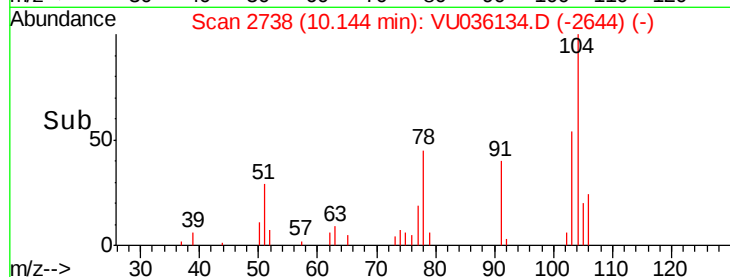
2000

1000

0

10.10 10.15 10.20

Time-->



#56

Isopropylbenzene

Concen: 0.226 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VU036134.D

Acq: 11 Dec 2019 15:35

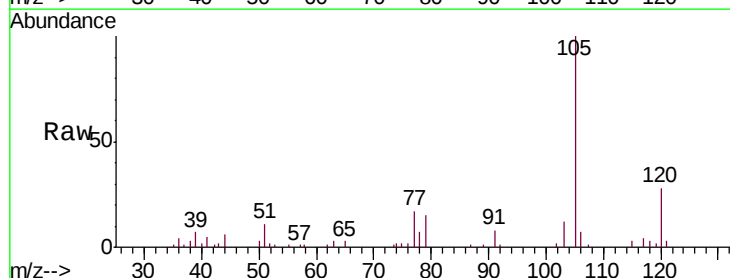
Tgt Ion:105 Resp: 23107

Ion Ratio Lower Upper

105 100

120 26.1 21.4 32.2

77 18.1 12.3 18.5



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): VU0

20000

15000

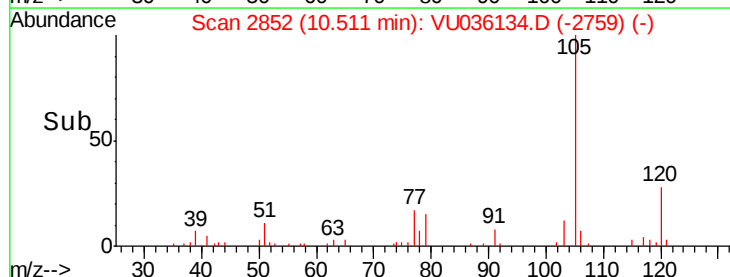
10000

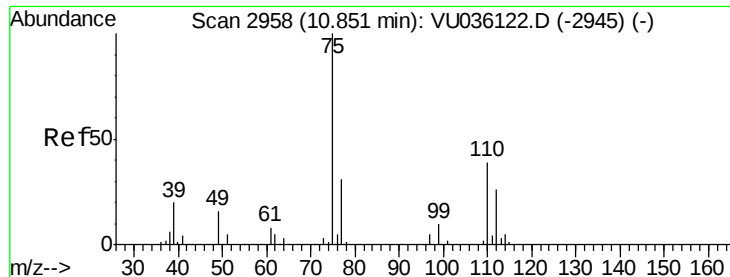
5000

0

10.45 10.50 10.55

Time-->

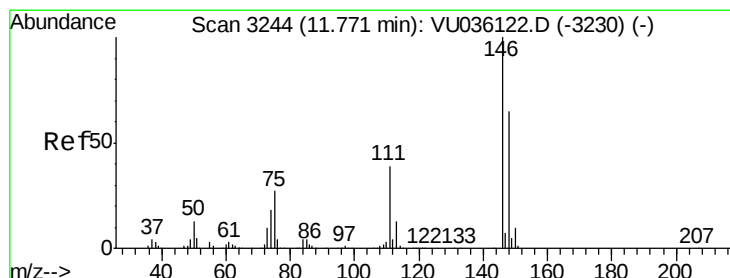
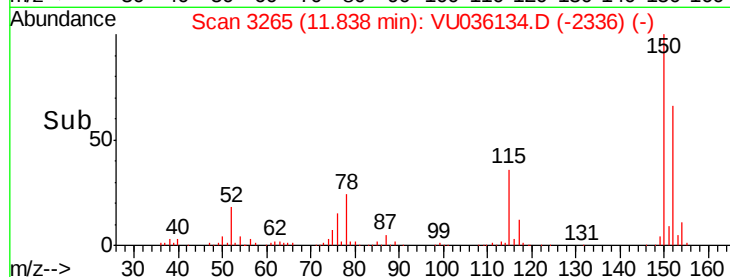
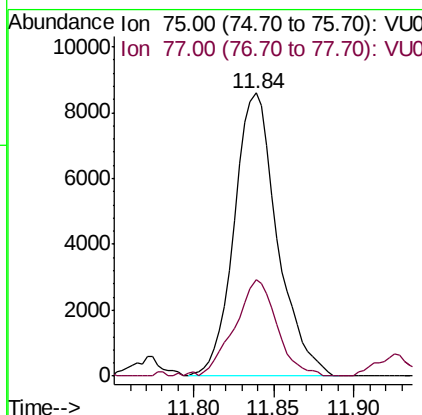
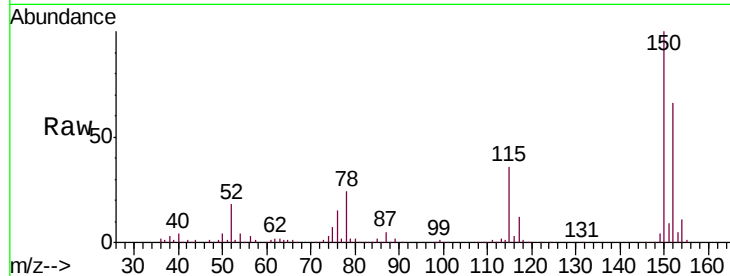




#59
 1,2,3-Trichloropropane
 Concen: 0.955 ug/L
 RT: 11.84 min Scan# 3265
 Delta R.T. 0.99 min
 Lab File: VU036134.D
 Acq: 11 Dec 2019 15:35

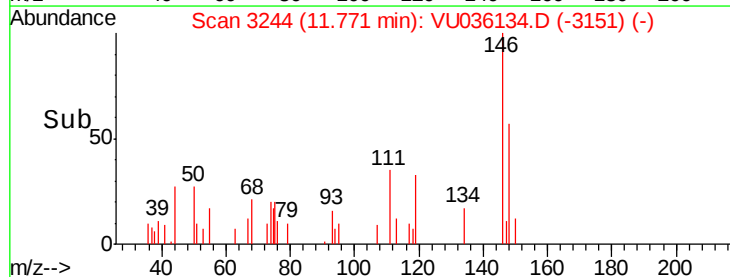
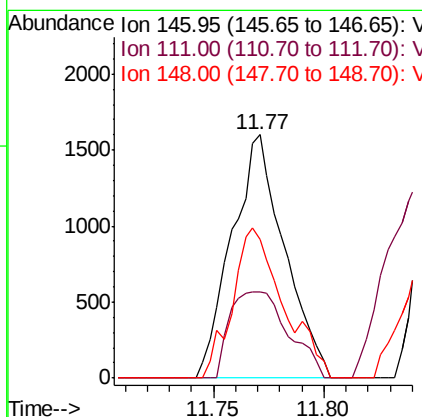
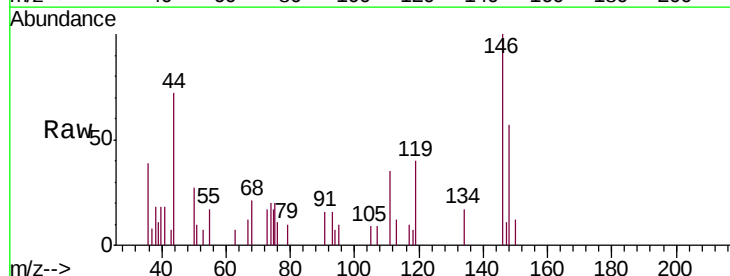
Instrument :
 MSVOA_U
 ClientSampleID :
 BFR92

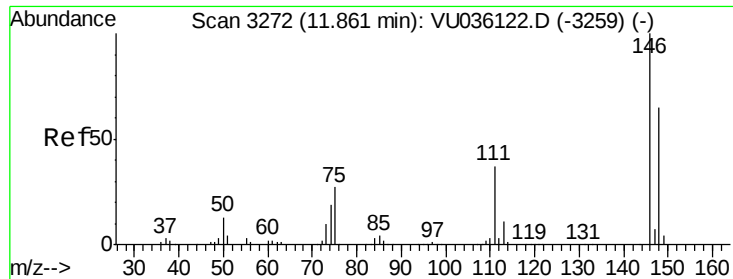
Tgt Ion: 75 Resp: 15768
 Ion Ratio Lower Upper
 75 100
 77 33.3 26.7 40.1



#62
 1,3-Dichlorobenzene
 Concen: 0.063 ug/L
 RT: 11.77 min Scan# 3244
 Delta R.T. 0.00 min
 Lab File: VU036134.D
 Acq: 11 Dec 2019 15:35

Tgt Ion: 146 Resp: 2658
 Ion Ratio Lower Upper
 146 100
 111 35.5 26.0 48.2
 148 57.1 43.7 81.1

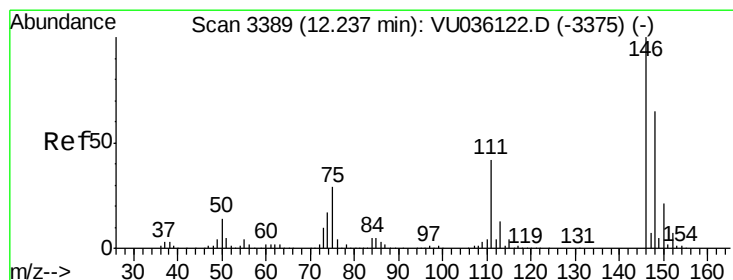
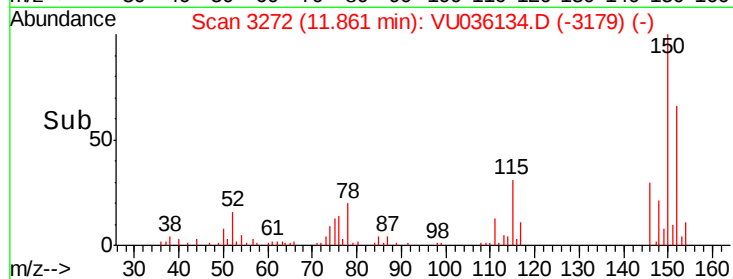
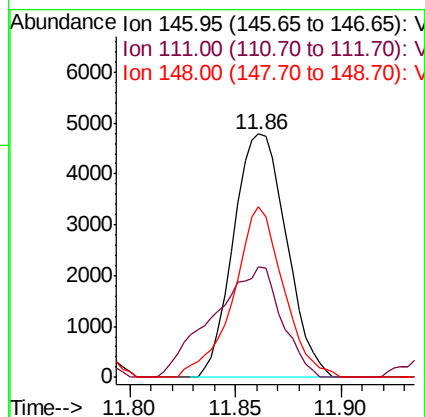
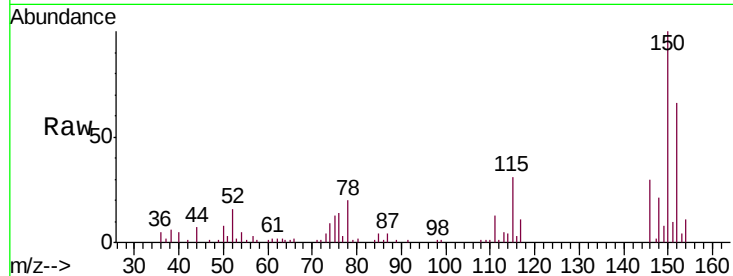




#63
 1,4-Dichlorobenzene
 Concen: 0.200 ug/L
 RT: 11.86 min Scan# 3272
 Delta R.T. 0.00 min
 Lab File: VU036134.D
 Acq: 11 Dec 2019 15:35

Instrument :
 MSVOA_U
 ClientSampleId :
 BFR92

Tgt Ion:146 Resp: 8344
 Ion Ratio Lower Upper
 146 100
 111 45.3 26.2 48.6
 148 70.1 44.9 83.5



#65
 1,2-Dichlorobenzene
 Concen: 0.175 ug/L
 RT: 12.24 min Scan# 3389
 Delta R.T. 0.00 min
 Lab File: VU036134.D
 Acq: 11 Dec 2019 15:35

Tgt Ion:146 Resp: 7348
 Ion Ratio Lower Upper
 146 100
 111 36.8 31.3 46.9
 148 61.2 50.5 75.7

