

Data File : VU034623.D
Acq On : 17 Sep 2019 18:26
Operator : JC/SP
Sample : VSTDICV005
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFB09

Quant Time: Sep 18 08:02:43 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR091819WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Sep 17 18:25:32 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	109859	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	103409	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	47603	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	42442	4.86	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	97.20%
7) Chloroethane-d5	1.67	69	34179	4.82	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.40%
11) 1,1-Dichloroethene-d2	2.26	63	77526	5.02	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	100.40%
20) 2-Butanone-d5	4.17	46	109141	50.79	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	101.58%
24) Chloroform-d	4.62	84	64203	4.82	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.40%
26) 1,2-Dichloroethane-d4	5.29	65	36216	4.77	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.40%
32) Benzene-d6	5.31	84	138406	5.03	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.60%
36) 1,2-Dichloropropane-d6	6.31	67	46092	4.96	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.20%
41) Toluene-d8	7.54	98	128604	4.95	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.00%
43) trans-1,3-Dichloropropene-	7.83	79	19091	5.08	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	101.60%
46) 2-Hexanone-d5	8.30	63	85844	51.34	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.68%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	36512	5.06	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.20%
64) 1,2-Dichlorobenzene-d4	11.84	152	40176	4.90	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	43428	5.220 ug/L	100
3) Chloromethane	1.32	50	40670	5.184 ug/L	93
5) Vinyl chloride	1.40	62	40908	4.978 ug/L	99
6) Bromomethane	1.62	94	20768	5.069 ug/L	94
8) Chloroethane	1.69	64	24698	5.156 ug/L	99
9) Trichlorofluoromethane	1.87	101	57032	5.236 ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	32763	5.354 ug/L	97
12) 1,1-Dichloroethene	2.27	96	28023	5.172 ug/L	96
13) Acetone	2.31	43	79901	48.127 ug/L	99
14) Carbon disulfide	2.46	76	73020	5.257 ug/L	98
15) Methyl Acetate	2.60	43	20885	5.154 ug/L	97
16) Methylene chloride	2.68	84	33477	4.644 ug/L	99
17) Methyl tert-butyl Ether	2.99	73	96428	5.082 ug/L	99
18) trans-1,2-Dichloroethene	2.96	96	29555	5.249 ug/L	95
19) 1,1-Dichloroethane	3.42	63	70921	5.160 ug/L	97
21) 2-Butanone	4.26	43	132110	55.275 ug/L	95
22) cis-1,2-Dichloroethene	4.20	96	38204	5.072 ug/L	91

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.52	128	14983	5.397	ug/L	99
25) Chloroform	4.65	83	77291	5.027	ug/L	94
27) 1,2-Dichloroethane	5.38	62	46112	5.213	ug/L #	94
29) 1,1,1-Trichloroethane	4.89	97	56885	5.218	ug/L	99
30) Cyclohexane	4.96	56	59663	5.206	ug/L	97
31) Carbon tetrachloride	5.11	117	46201	5.208	ug/L	98
33) Benzene	5.36	78	149749	5.356	ug/L	100
34) Trichloroethene	6.16	95	37931	5.442	ug/L	97
35) Methylcyclohexane	6.39	83	57539	5.111	ug/L	100
37) 1,2-Dichloropropane	6.41	63	42824	4.961	ug/L #	97
38) Bromodichloromethane	6.74	83	54436	5.270	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	63023	5.185	ug/L	96
40) 4-Methyl-2-pentanone	7.44	43	346217	53.211	ug/L	100
42) Toluene	7.61	91	155623	5.150	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	49982	5.069	ug/L	95
45) 1,1,2-Trichloroethane	8.05	97	28714	5.230	ug/L	98
47) Tetrachloroethene	8.20	164	22328	5.284	ug/L	96
48) 2-Hexanone	8.35	43	248656	56.864	ug/L	98
49) Dibromochloromethane	8.46	129	33583	5.215	ug/L	90
50) 1,2-Dibromoethane	8.57	107	26169	5.227	ug/L	98
51) Chlorobenzene	9.10	112	100186	5.290	ug/L	98
52) Ethylbenzene	9.23	91	186762	5.346	ug/L	100
53) m,p-Xylene	9.35	106	67112	5.418	ug/L	97
54) o-Xylene	9.76	106	65313	5.248	ug/L	96
55) Styrene	9.77	104	112786	5.456	ug/L	98
56) Isopropylbenzene	10.14	105	178511	5.163	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.44	83	43220	5.332	ug/L	98
59) 1,2,3-Trichloropropane	10.47	75	28979	5.139	ug/L	100
61) Bromoform	9.94	173	15986	5.084	ug/L	97
62) 1,3-Dichlorobenzene	11.39	146	74961	5.364	ug/L	99
63) 1,4-Dichlorobenzene	11.48	146	74340	5.329	ug/L	98
65) 1,2-Dichlorobenzene	11.85	146	73160	5.349	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.64	75	7102	5.733	ug/L	87
67) 1,3,5-Trichlorobenzene	12.86	180	51414	5.629	ug/L	100
68) 1,2,4-trichlorobenzene	13.48	180	44318	6.085	ug/L	97
69) Naphthalene	13.72	128	109498	6.173	ug/L	97
70) 1,2,3-Trichlorobenzene	13.97	180	40658	5.959	ug/L	97

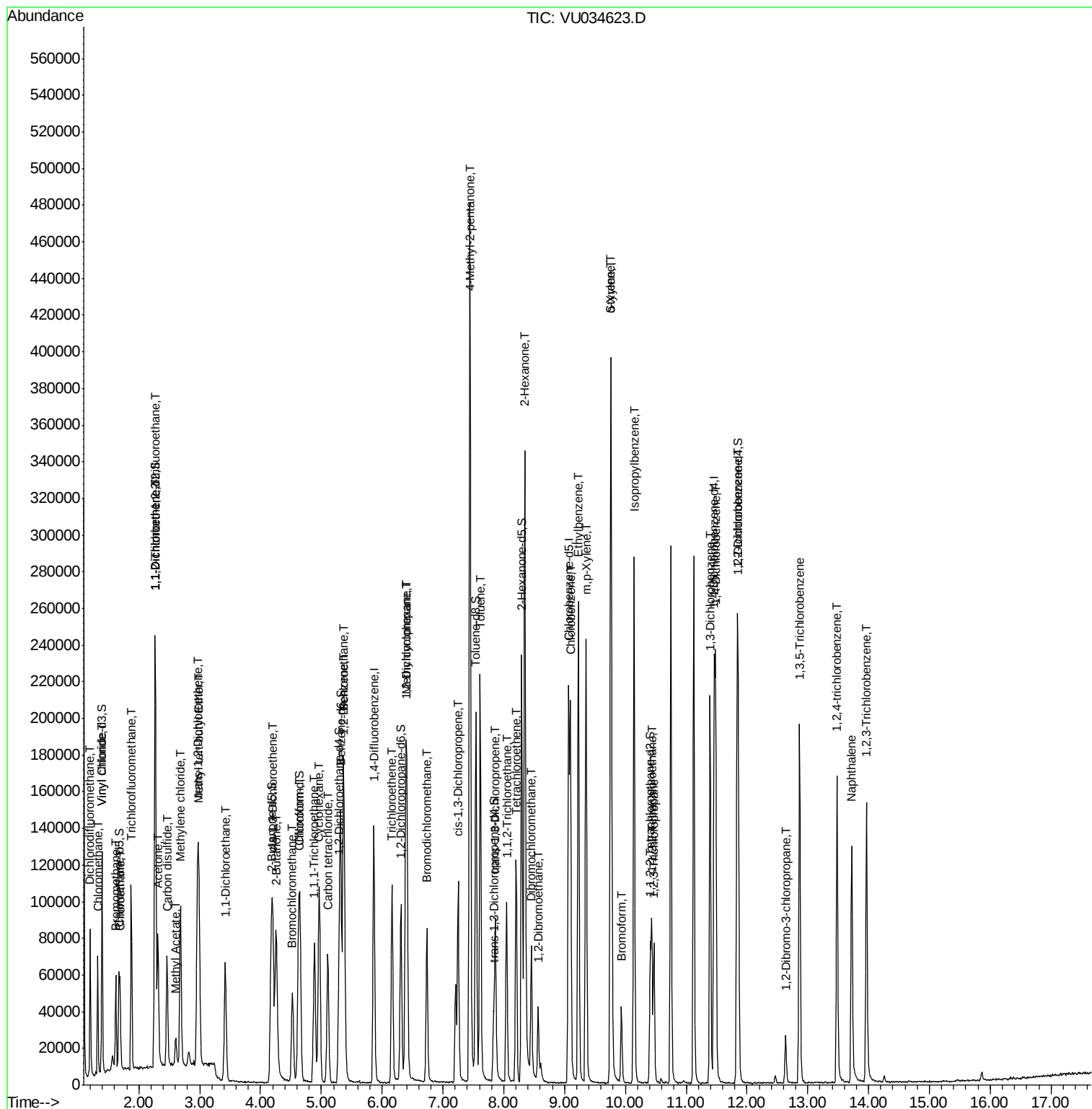
(#) = qualifier out of range (m) = manual integration (+) = signals summed

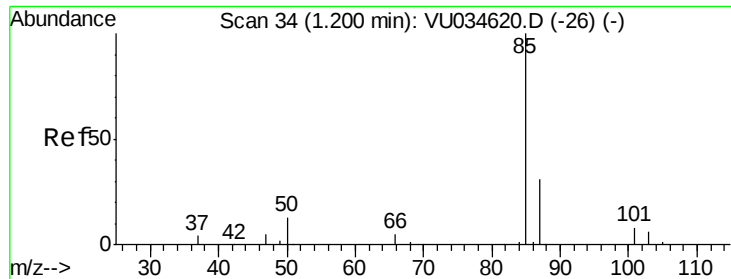
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#2

Dichlorodifluoromethane

Concen: 5.220 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU034623.D

Acq: 17 Sep 2019 18:26

Instrument :

MSVOA_U

ClientSampleId :

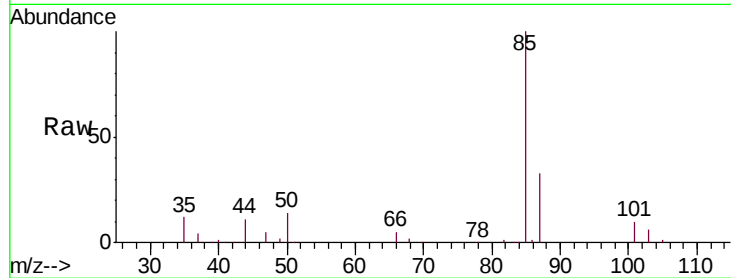
BFB09

Tgt Ion: 85 Resp: 43428

Ion Ratio Lower Upper

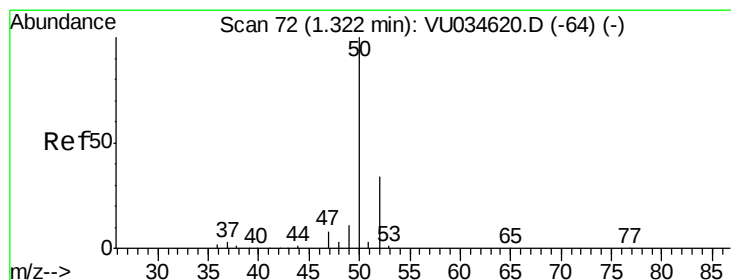
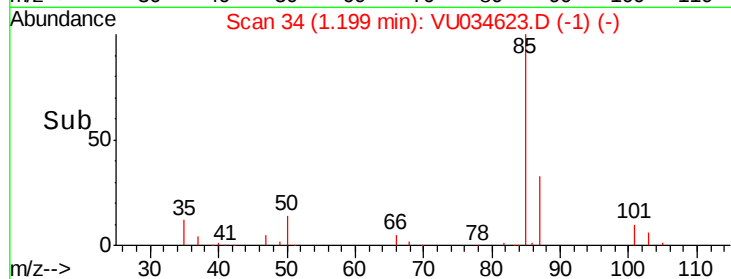
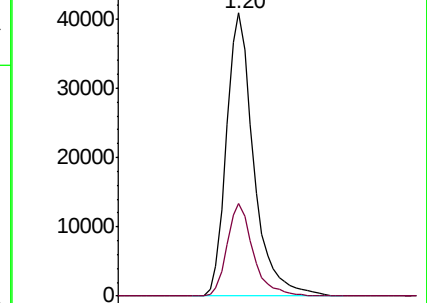
85 100

87 31.3 25.0 37.4



Abundance Ion 85.00 (84.70 to 85.70): VU034620.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU034620.D (-26) (-)



#3

Chloromethane

Concen: 5.184 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU034623.D

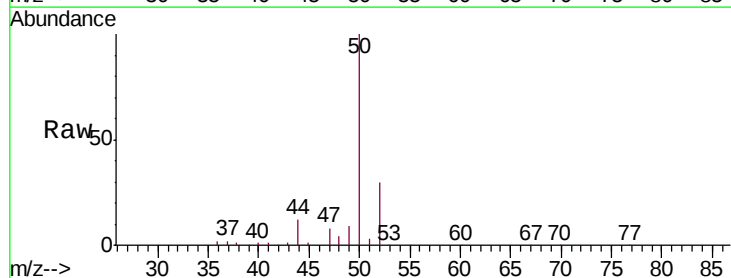
Acq: 17 Sep 2019 18:26

Tgt Ion: 50 Resp: 40670

Ion Ratio Lower Upper

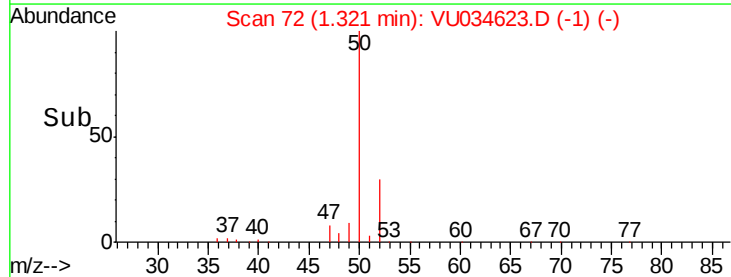
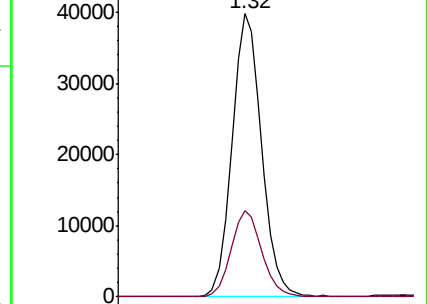
50 100

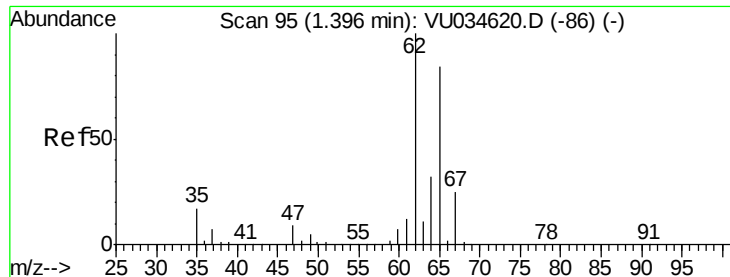
52 30.3 23.9 44.3



Abundance Ion 50.05 (49.75 to 50.75): VU034620.D (-64) (-)

Ion 52.05 (51.75 to 52.75): VU034620.D (-64) (-)





#5

Vinyl chloride

Concen: 4.978 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU034623.D

Acq: 17 Sep 2019 18:26

Instrument :

MSVOA_U

ClientSampled :

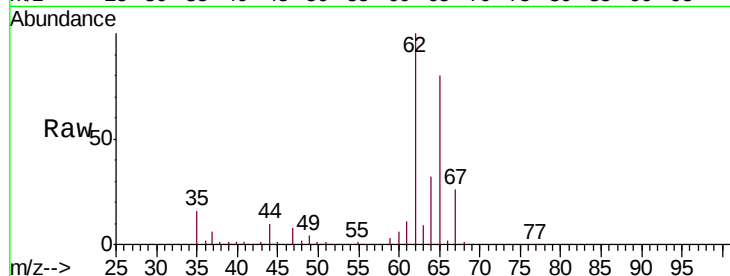
BFB09

Tgt Ion: 62 Resp: 40908

Ion Ratio Lower Upper

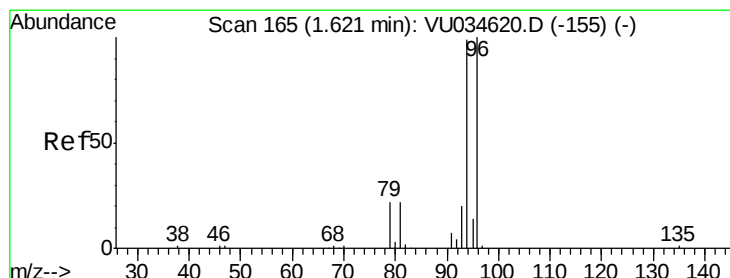
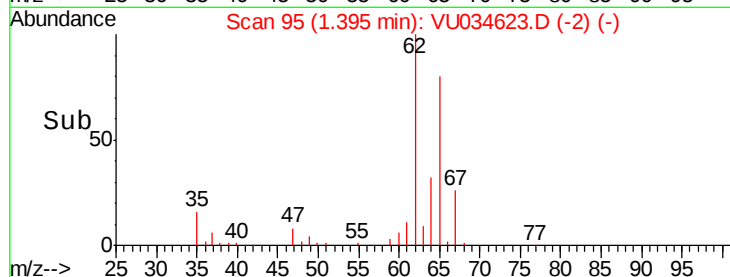
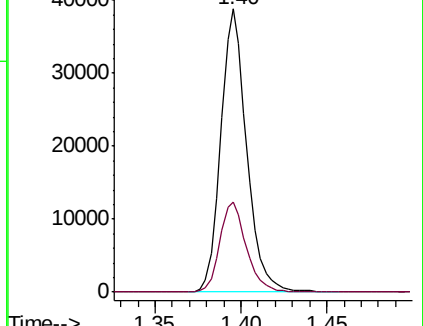
62 100

64 32.0 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 5.069 ug/L

RT: 1.62 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU034623.D

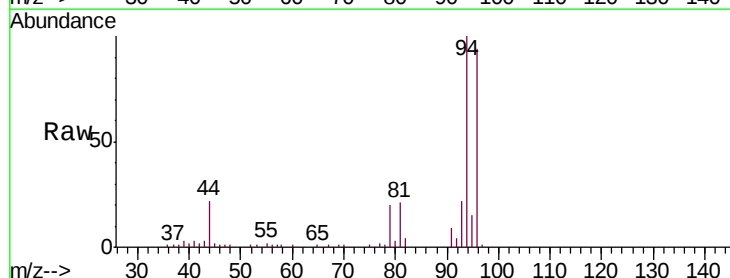
Acq: 17 Sep 2019 18:26

Tgt Ion: 94 Resp: 20768

Ion Ratio Lower Upper

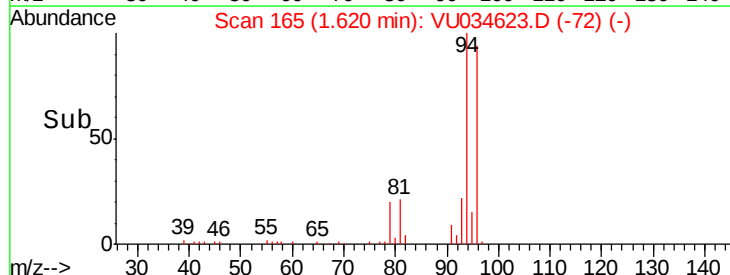
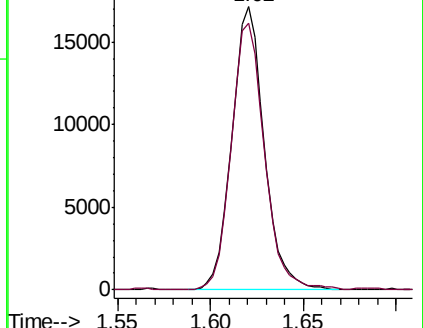
94 100

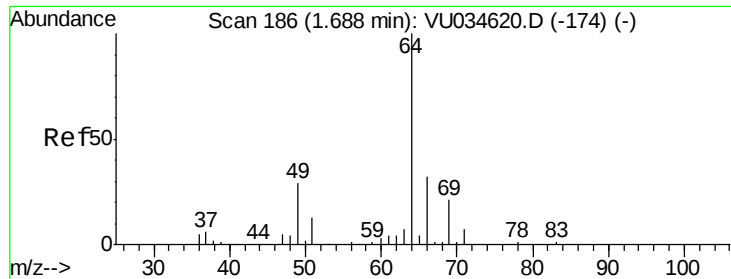
96 94.3 70.4 130.8



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 5.156 ug/L

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU034623.D

Acq: 17 Sep 2019 18:26

Instrument :

MSVOA_U

ClientSampleId :

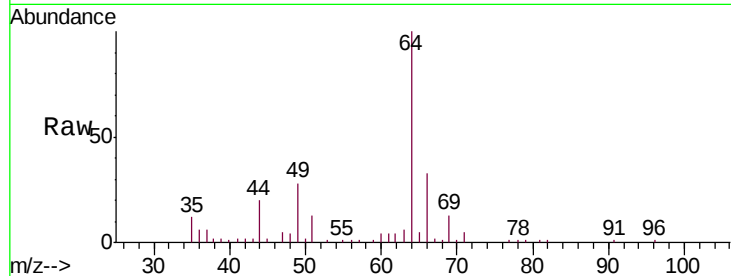
BFB09

Tgt Ion: 64 Resp: 24698

Ion Ratio Lower Upper

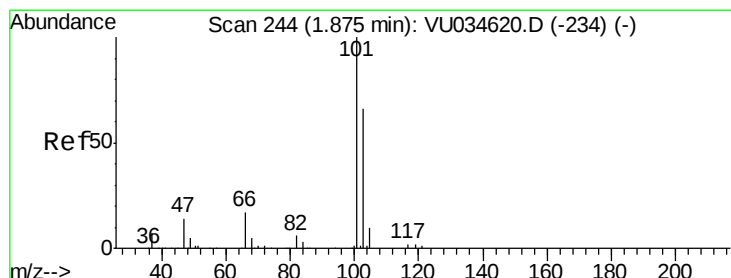
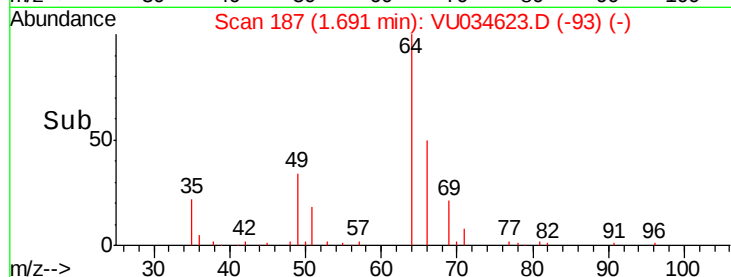
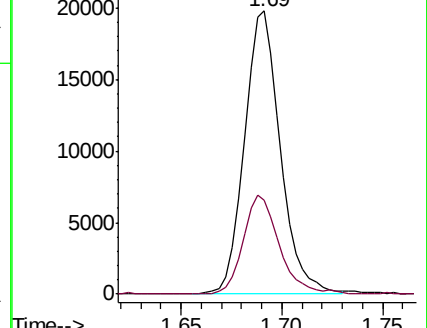
64 100

66 33.0 22.6 42.0



Abundance Ion 64.10 (63.80 to 64.80): VU034623.D (-174) (-)

Ion 66.05 (65.75 to 66.75): VU034623.D (-174) (-)



#9

Trichlorofluoromethane

Concen: 5.236 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.00 min

Lab File: VU034623.D

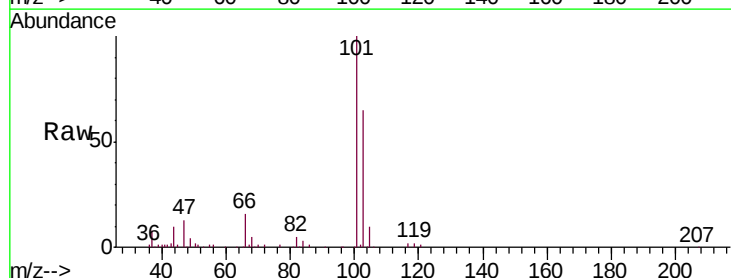
Acq: 17 Sep 2019 18:26

Tgt Ion: 101 Resp: 57032

Ion Ratio Lower Upper

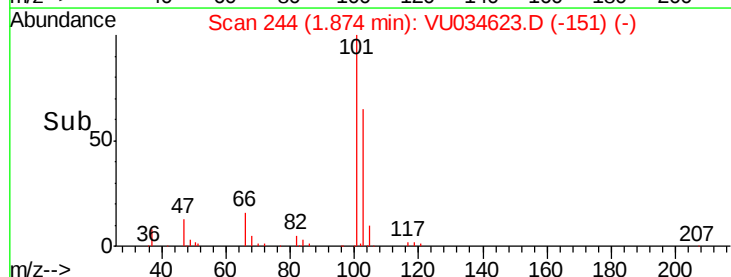
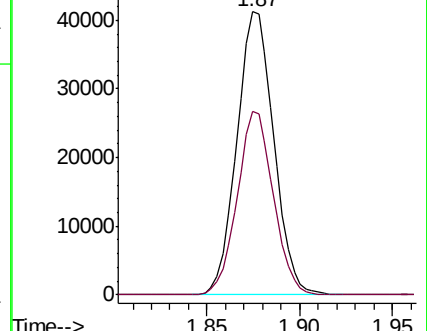
101 100

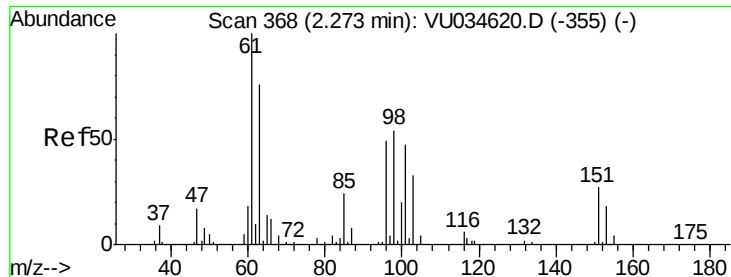
103 63.2 53.2 79.8



Abundance Ion 101.00 (100.70 to 101.70): VU034623.D (-151) (-)

Ion 103.00 (102.70 to 103.70): VU034623.D (-151) (-)





#10

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

Concen: 5.354 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU034623.D

Acq: 17 Sep 2019 18:26

Instrument :

MSVOA_U

ClientSampleId :

BFB09

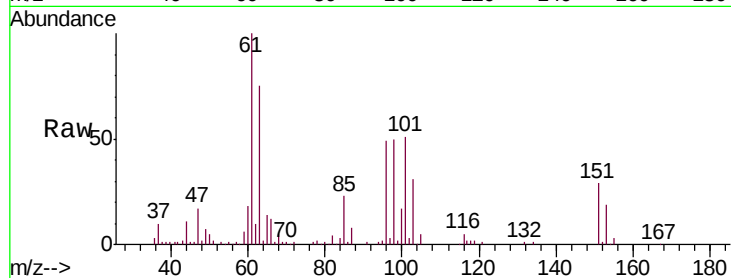
Tgt Ion: 101 Resp: 32763

Ion Ratio Lower Upper

101 100

85 48.2 41.9 62.9

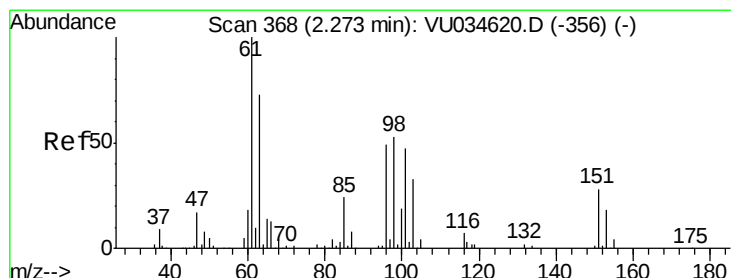
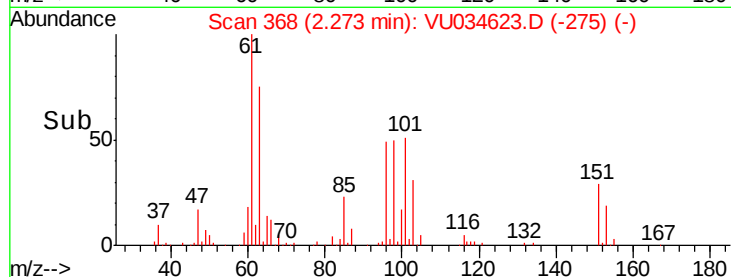
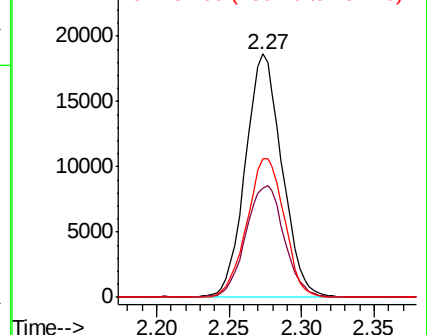
151 58.1 46.4 69.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 5.172 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU034623.D

Acq: 17 Sep 2019 18:26

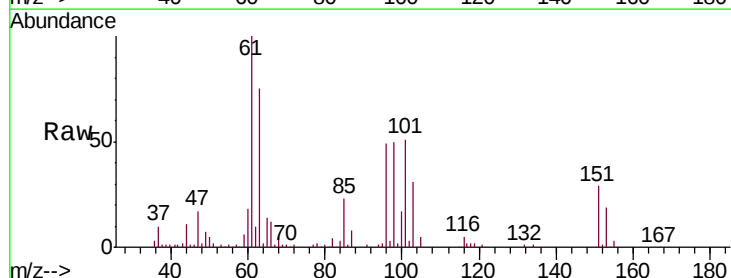
Tgt Ion: 96 Resp: 28023

Ion Ratio Lower Upper

96 100

61 202.1 144.4 268.2

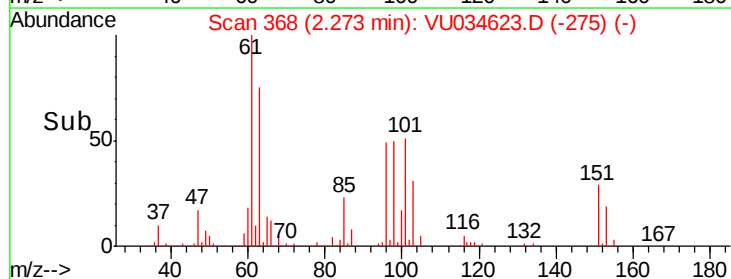
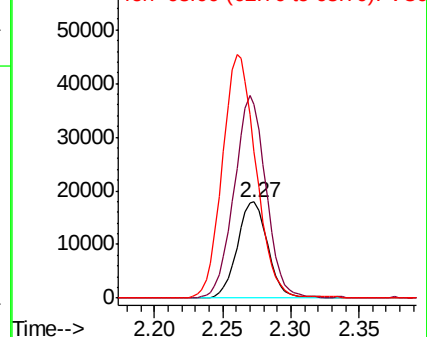
63 152.5 111.5 207.1

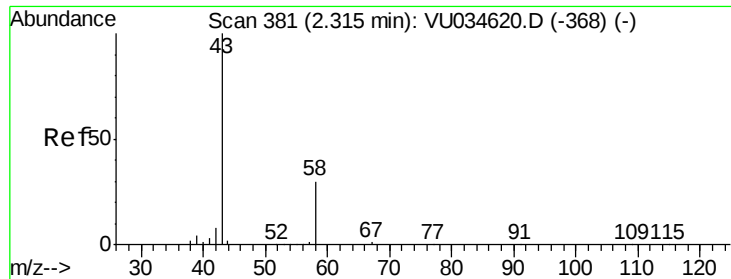


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 48.127 ug/L

RT: 2.31 min Scan# 381

Delta R.T. -0.00 min

Lab File: VU034623.D

Acq: 17 Sep 2019 18:26

Instrument :

MSVOA_U

ClientSampleId :

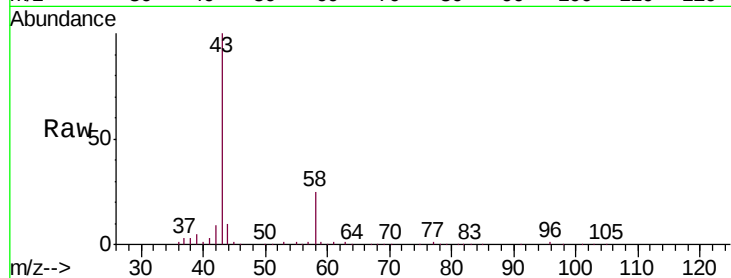
BFB09

Tgt Ion: 43 Resp: 79901

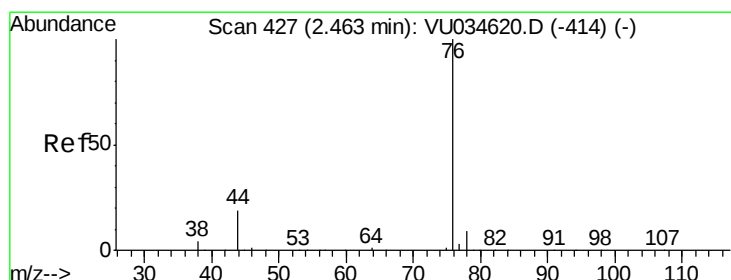
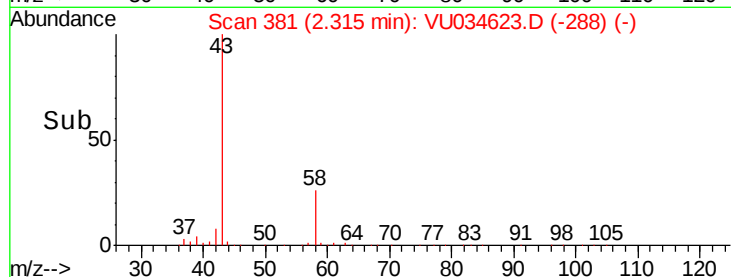
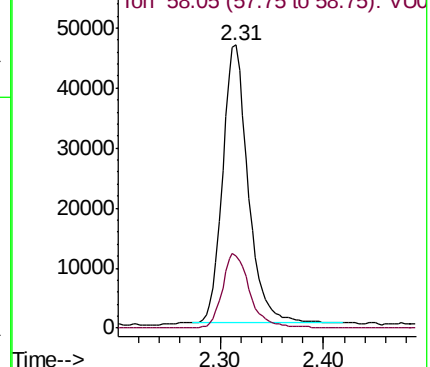
Ion Ratio Lower Upper

43 100

58 28.5 0.0 57.8



Abundance Ion 43.05 (42.75 to 43.75): VU034623.D (-368) (-)



#14

Carbon disulfide

Concen: 5.257 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU034623.D

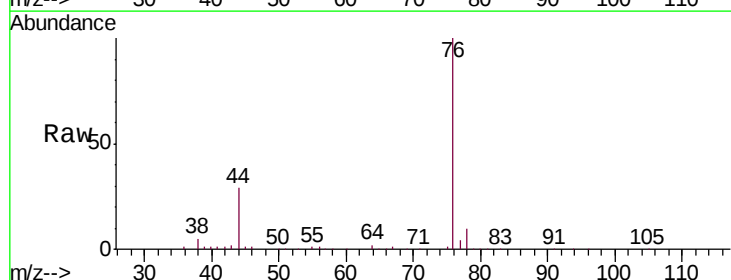
Acq: 17 Sep 2019 18:26

Tgt Ion: 76 Resp: 73020

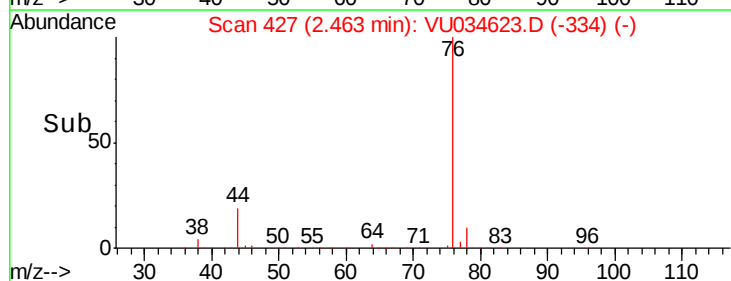
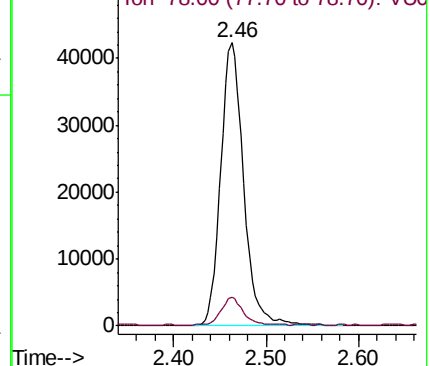
Ion Ratio Lower Upper

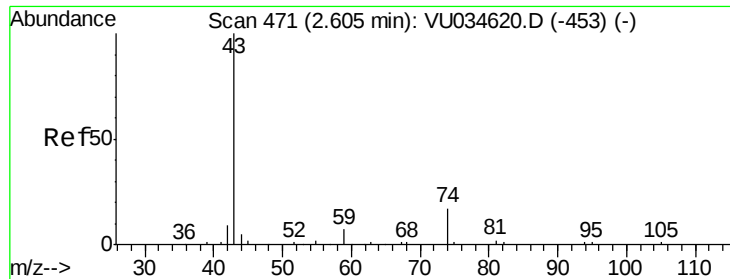
76 100

78 10.3 7.7 11.5



Abundance Ion 76.05 (75.75 to 76.75): VU034623.D (-414) (-)

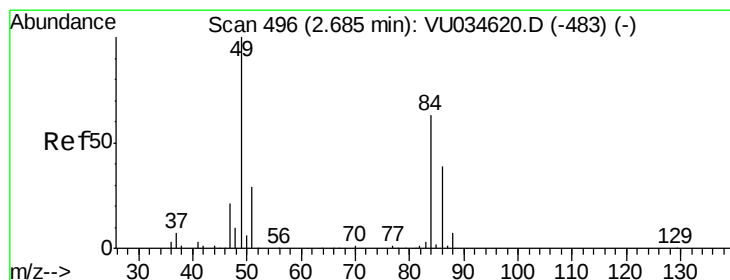
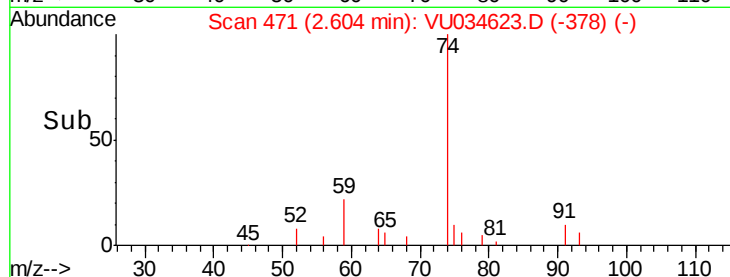
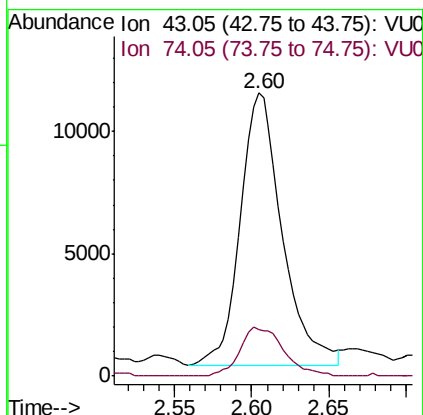
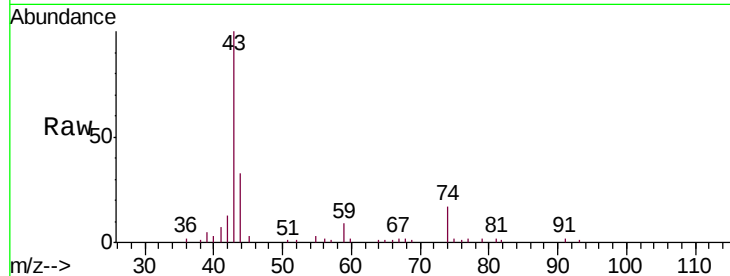




#15
Methyl Acetate
Concen: 5.154 ug/L
RT: 2.60 min Scan# 471
Delta R.T. -0.00 min
Lab File: VU034623.D
Acq: 17 Sep 2019 18:26

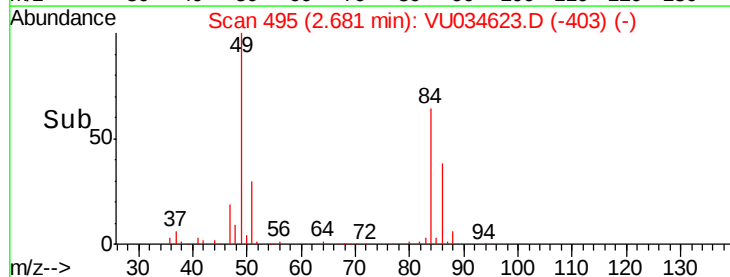
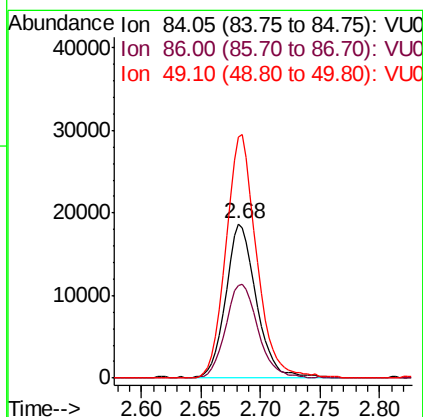
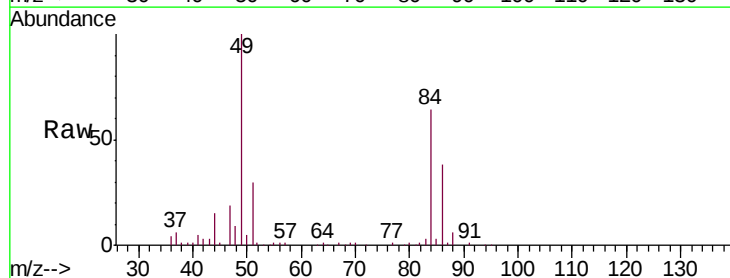
Instrument :
MSVOA_U
ClientSampled :
BFB09

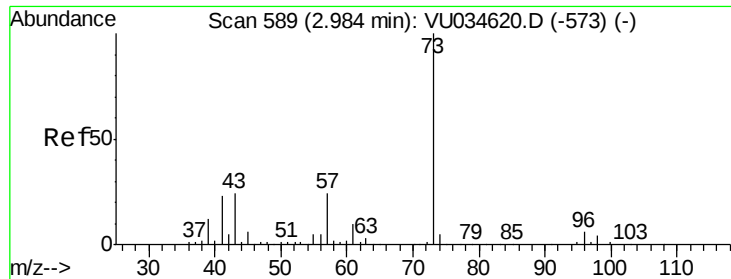
Tgt Ion: 43 Resp: 20885
Ion Ratio Lower Upper
43 100
74 19.0 14.2 21.2



#16
Methylene chloride
Concen: 4.644 ug/L
RT: 2.68 min Scan# 496
Delta R.T. -0.00 min
Lab File: VU034623.D
Acq: 17 Sep 2019 18:26

Tgt Ion: 84 Resp: 33477
Ion Ratio Lower Upper
84 100
86 60.2 43.0 80.0
49 156.7 110.9 205.9





#17

Methyl tert-butyl Ether

Concen: 5.082 ug/L

RT: 2.99 min Scan# 590

Delta R.T. 0.00 min

Lab File: VU034623.D

Acq: 17 Sep 2019 18:26

Instrument :

MSVOA_U

ClientSampleId :

BFB09

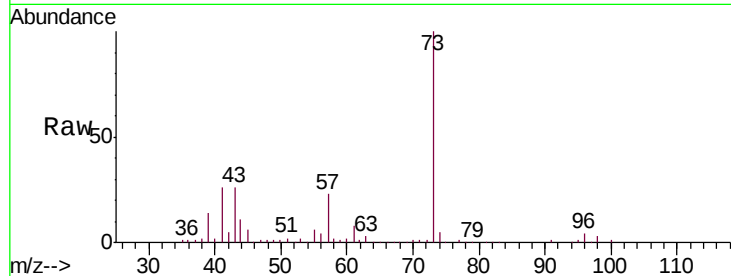
Tgt Ion: 73 Resp: 96428

Ion Ratio Lower Upper

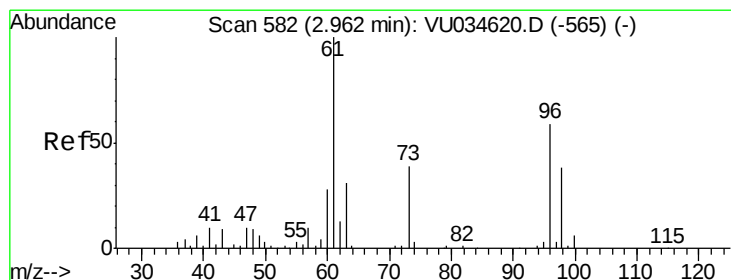
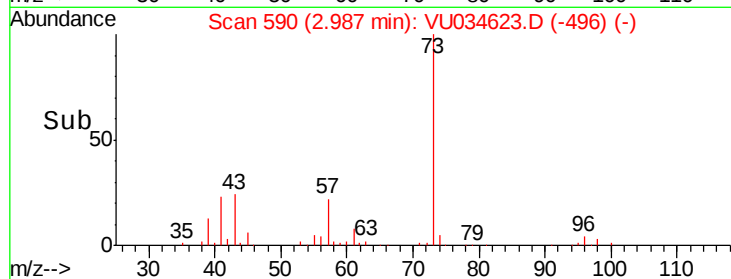
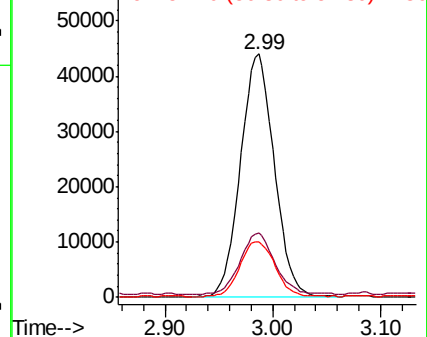
73 100

43 25.7 20.3 30.5

57 23.4 18.9 28.3



Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0



#18

trans-1,2-Dichloroethene

Concen: 5.249 ug/L

RT: 2.96 min Scan# 582

Delta R.T. -0.00 min

Lab File: VU034623.D

Acq: 17 Sep 2019 18:26

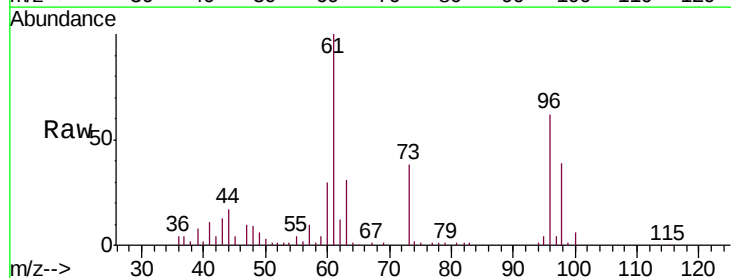
Tgt Ion: 96 Resp: 29555

Ion Ratio Lower Upper

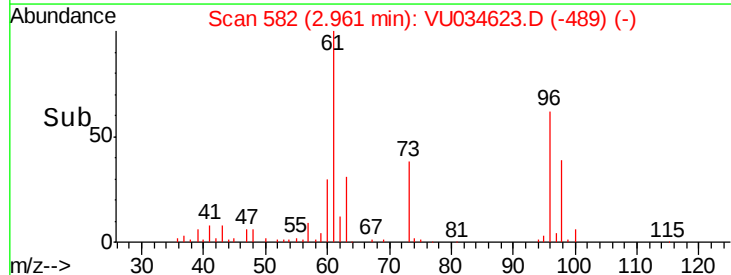
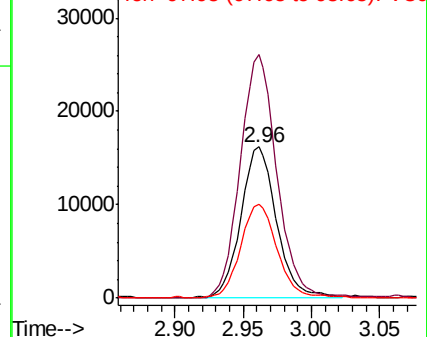
96 100

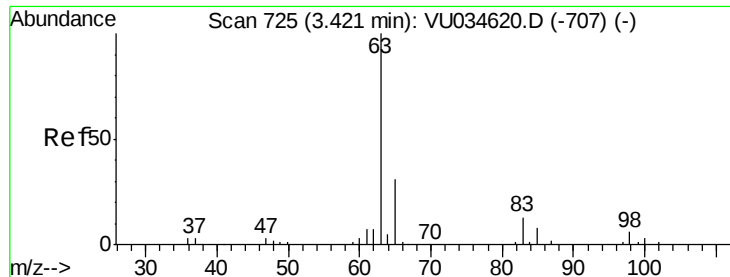
61 160.9 118.2 219.6

98 62.2 44.8 83.2



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

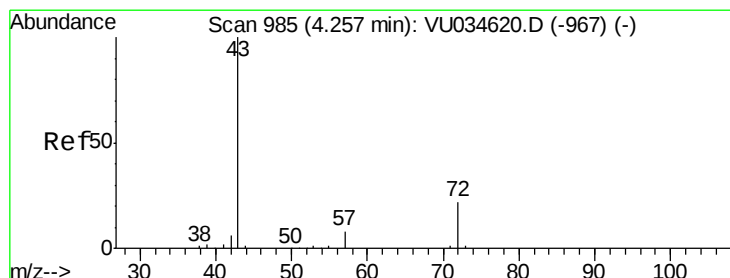
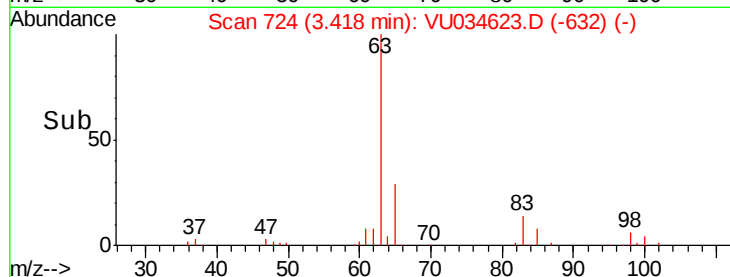
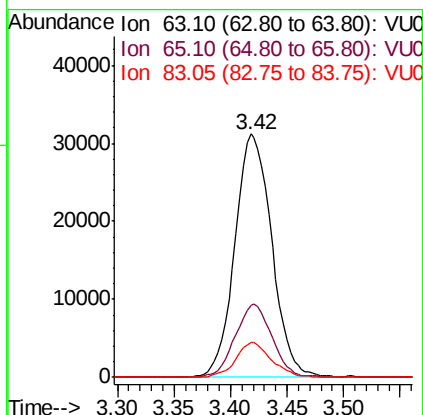
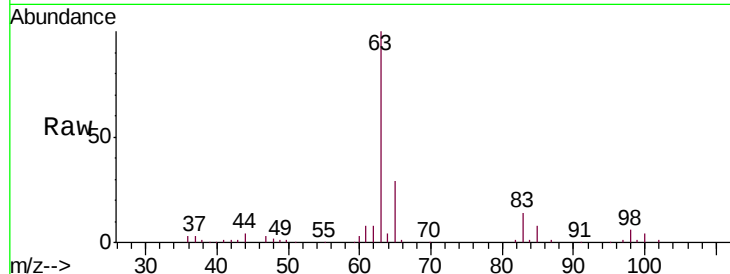




#19
 1,1-Dichloroethane
 Concen: 5.160 ug/L
 RT: 3.42 min Scan# 724
 Delta R.T. -0.00 min
 Lab File: VU034623.D
 Acq: 17 Sep 2019 18:26

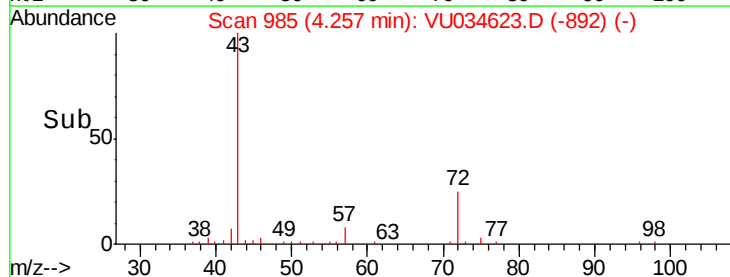
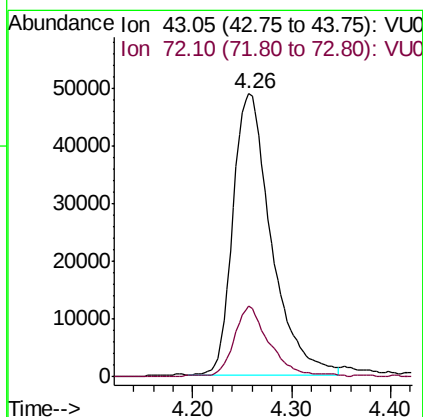
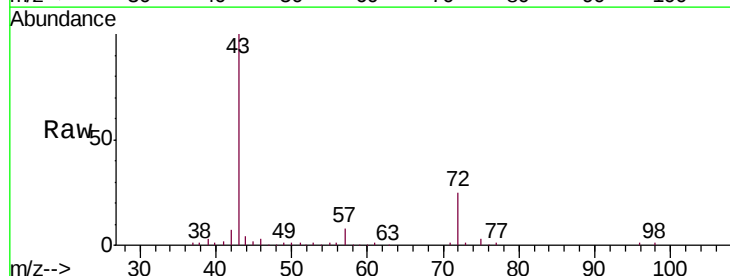
Instrument :
 MSVOA_U
 ClientSampleId :
 BFB09

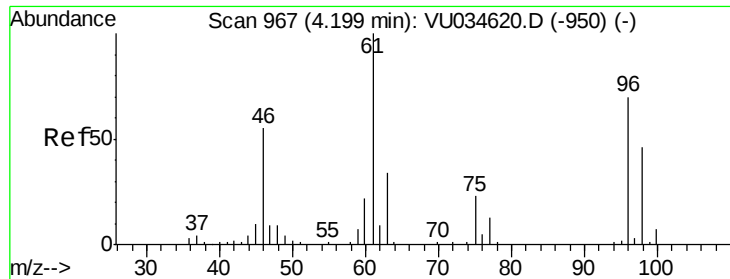
Tgt Ion: 63 Resp: 70921
 Ion Ratio Lower Upper
 63 100
 65 29.4 21.9 40.7
 83 14.4 9.4 17.6



#21
 2-Butanone
 Concen: 55.275 ug/L
 RT: 4.26 min Scan# 985
 Delta R.T. -0.00 min
 Lab File: VU034623.D
 Acq: 17 Sep 2019 18:26

Tgt Ion: 43 Resp: 132110
 Ion Ratio Lower Upper
 43 100
 72 23.7 10.8 32.3



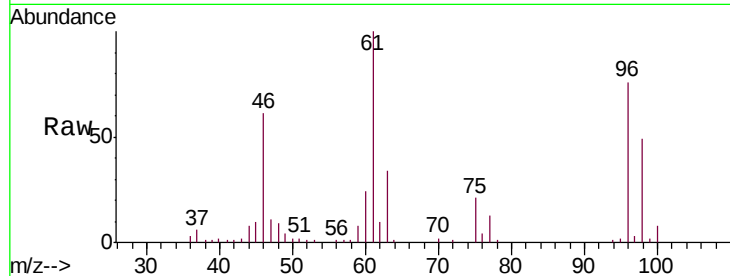


#22

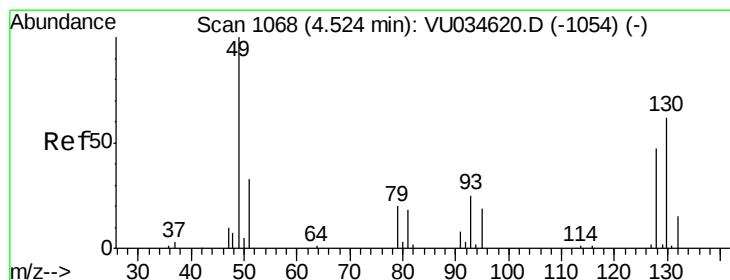
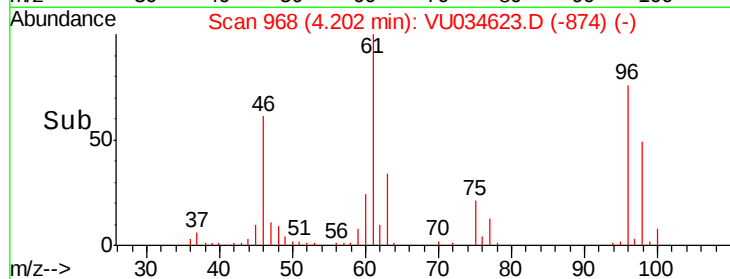
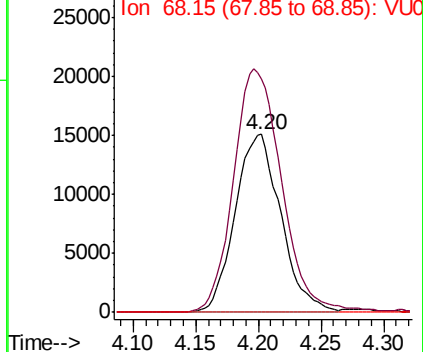
cis-1,2-Dichloroethene
 Concen: 5.072 ug/L
 RT: 4.20 min Scan# 968
 Delta R.T. 0.00 min
 Lab File: VU034623.D
 Acq: 17 Sep 2019 18:26

Instrument :
 MSVOA_U
 ClientSampled :
 BFB09

Tgt Ion: 96 Resp: 38204
 Ion Ratio Lower Upper
 96 100
 61 131.4 100.0 185.8
 68 0.0 0.0 0.0



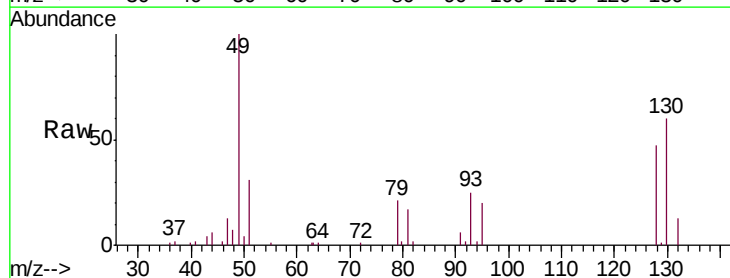
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0



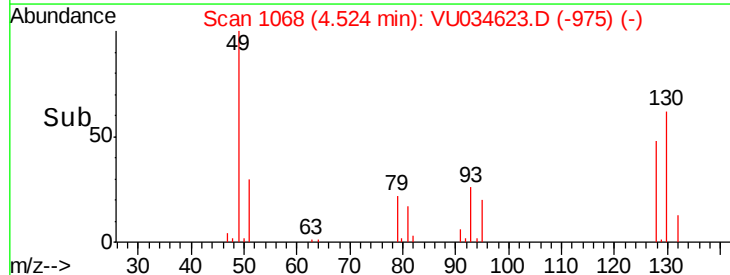
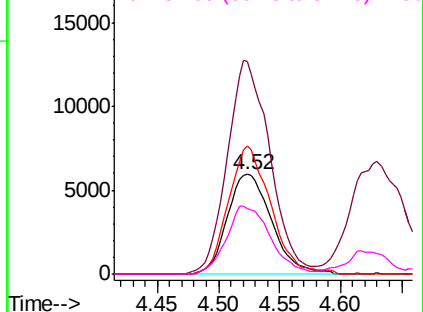
#23

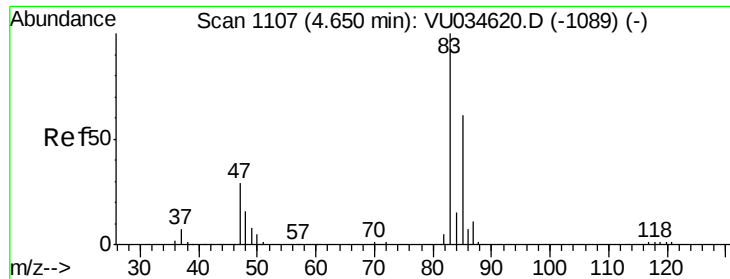
Bromochloromethane
 Concen: 5.397 ug/L
 RT: 4.52 min Scan# 1068
 Delta R.T. -0.00 min
 Lab File: VU034623.D
 Acq: 17 Sep 2019 18:26

Tgt Ion: 128 Resp: 14983
 Ion Ratio Lower Upper
 128 100
 49 213.7 149.9 278.3
 130 128.5 91.3 169.6
 51 65.6 55.7 83.5



Abundance Ion 127.90 (127.60 to 128.60): V
 Ion 49.10 (48.80 to 49.80): VU0
 Ion 129.95 (129.65 to 130.65): V
 Ion 51.05 (50.75 to 51.75): VU0

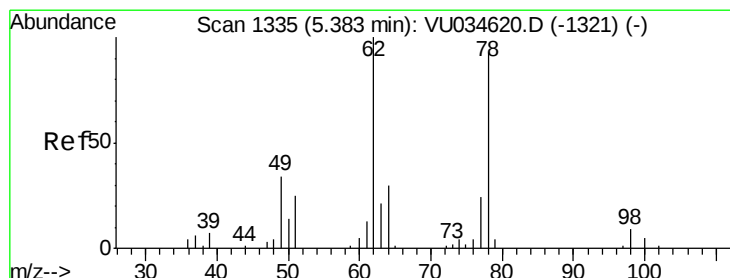
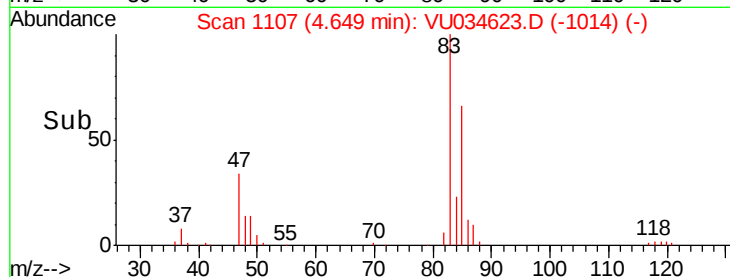
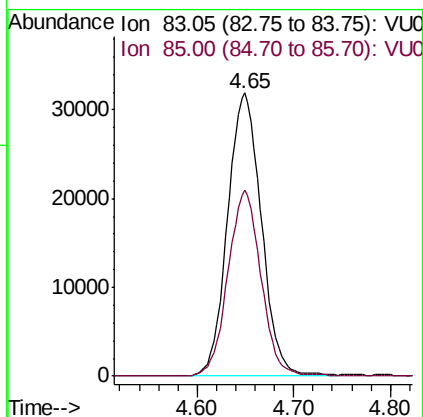
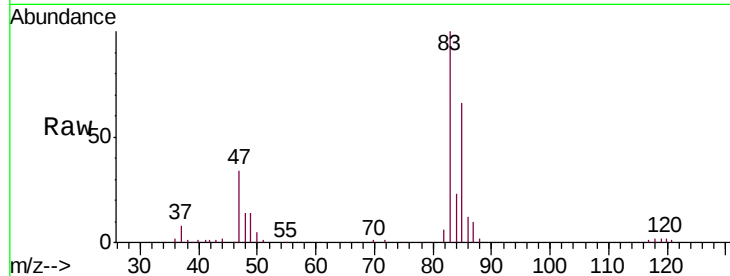




#25
Chloroform
Concen: 5.027 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. -0.00 min
Lab File: VU034623.D
Acq: 17 Sep 2019 18:26

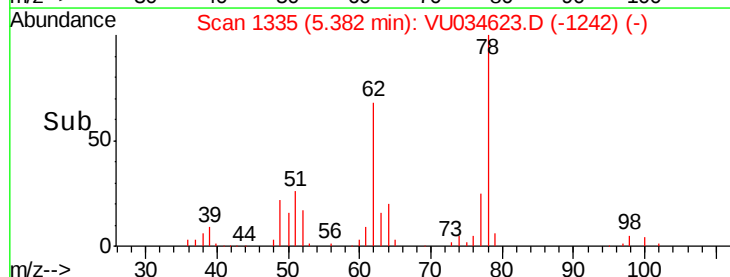
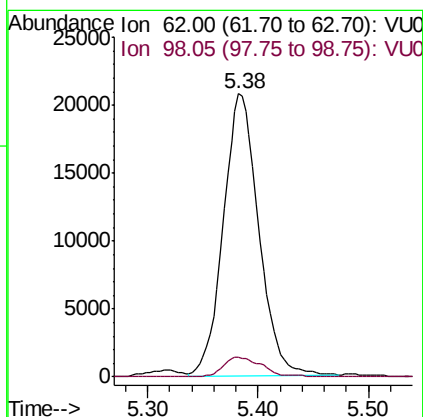
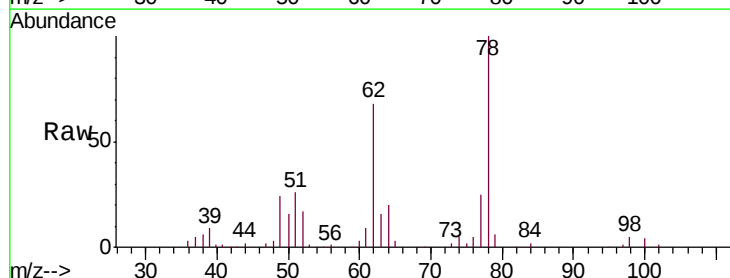
Instrument :
MSVOA_U
ClientSampleId :
BFB09

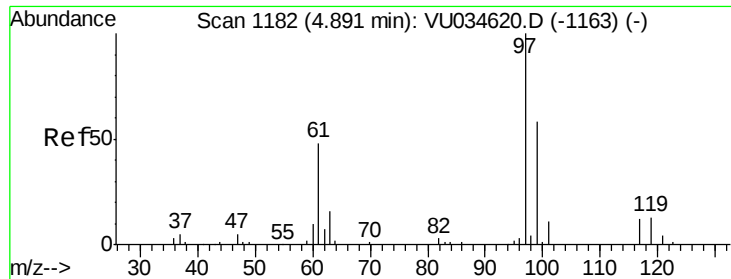
Tgt Ion: 83 Resp: 77291
Ion Ratio Lower Upper
83 100
85 65.8 42.8 79.4



#27
1,2-Dichloroethane
Concen: 5.213 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. -0.00 min
Lab File: VU034623.D
Acq: 17 Sep 2019 18:26

Tgt Ion: 62 Resp: 46112
Ion Ratio Lower Upper
62 100
98 6.8 7.0 10.6#

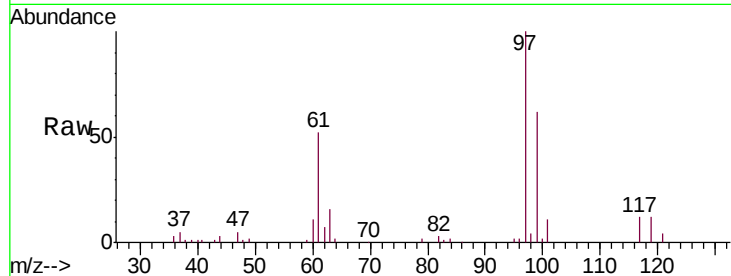




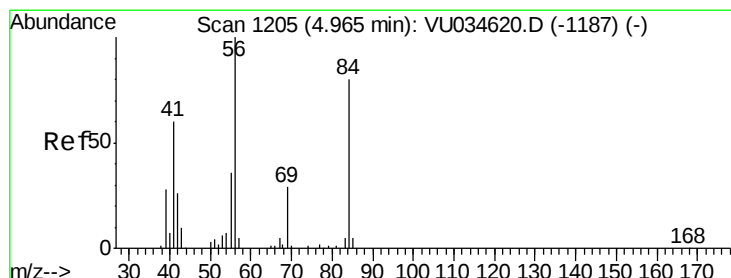
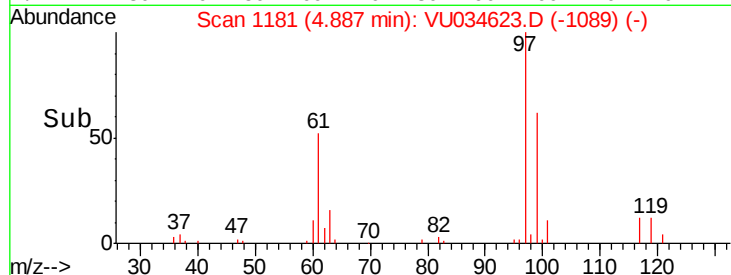
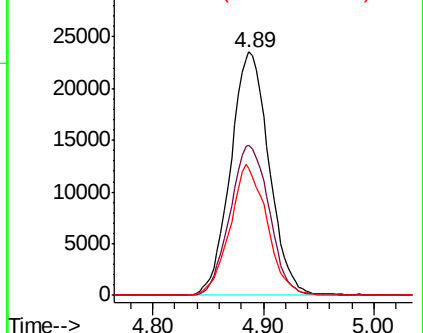
#29
 1,1,1-Trichloroethane
 Concen: 5.218 ug/L
 RT: 4.89 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VU034623.D
 Acq: 17 Sep 2019 18:26

Instrument :
 MSVOA_U
 ClientSampleId :
 BFB09

Tgt Ion: 97 Resp: 56885
 Ion Ratio Lower Upper
 97 100
 99 62.6 50.0 75.0
 61 51.6 39.8 59.6

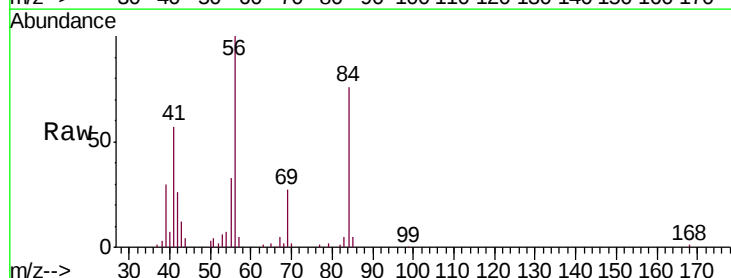


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

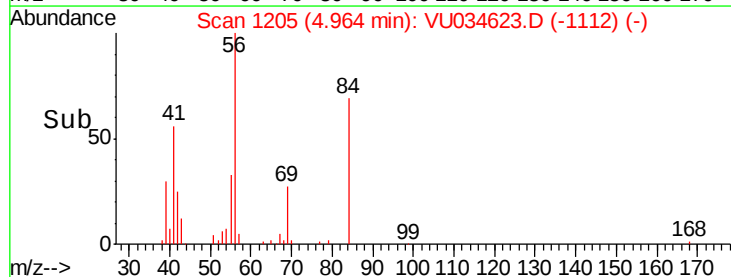
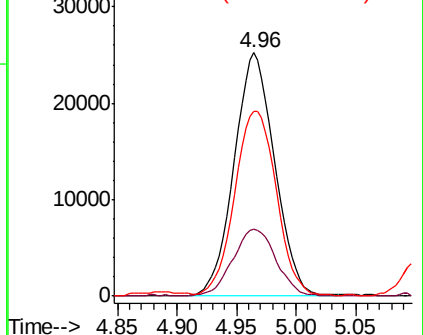


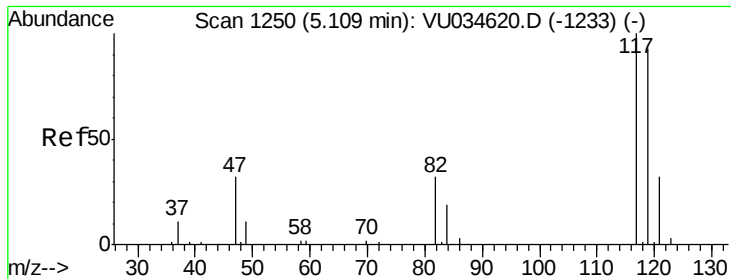
#30
 Cyclohexane
 Concen: 5.206 ug/L
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.00 min
 Lab File: VU034623.D
 Acq: 17 Sep 2019 18:26

Tgt Ion: 56 Resp: 59663
 Ion Ratio Lower Upper
 56 100
 69 29.2 21.4 32.2
 84 78.2 64.2 96.2



Abundance Ion 56.10 (55.80 to 56.80): VU0
 Ion 69.15 (68.85 to 69.85): VU0
 Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 5.208 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VU034623.D

Acq: 17 Sep 2019 18:26

Instrument :

MSVOA_U

ClientSampleId :

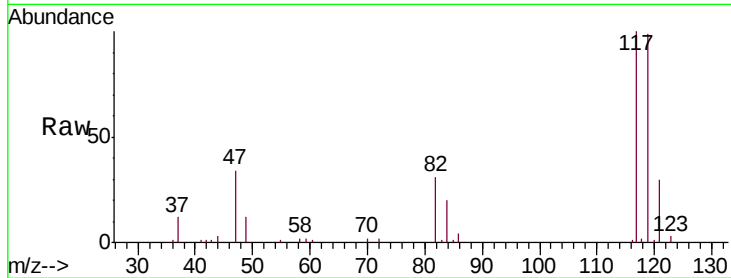
BFB09

Tgt Ion:117 Resp: 46201

Ion Ratio Lower Upper

117 100

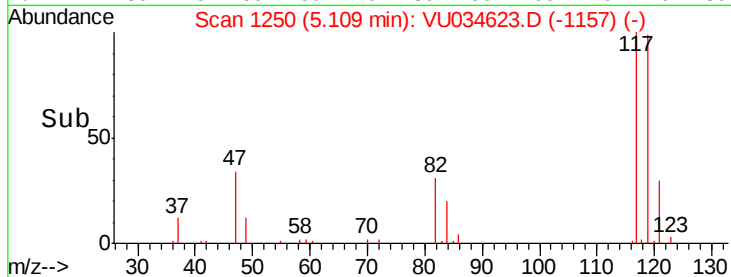
119 94.6 74.2 111.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.11



20000

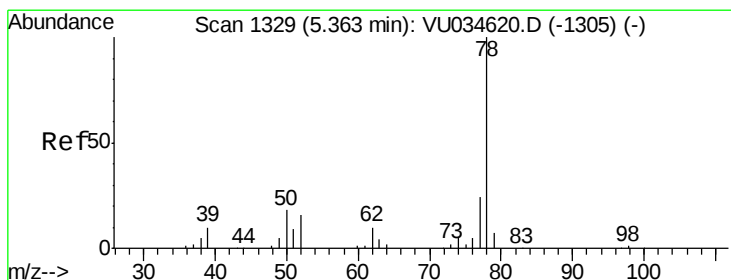
15000

10000

5000

0

Time--> 5.00 5.05 5.10 5.15 5.20



#33

Benzene

Concen: 5.356 ug/L

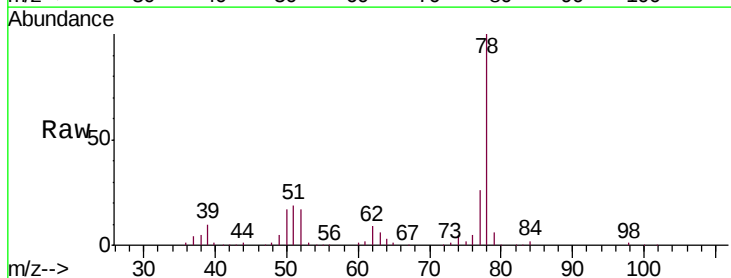
RT: 5.36 min Scan# 1329

Delta R.T. -0.00 min

Lab File: VU034623.D

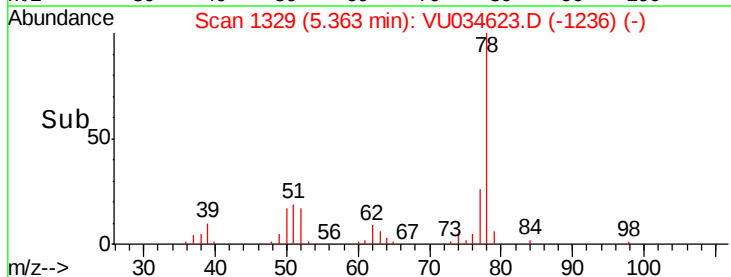
Acq: 17 Sep 2019 18:26

Tgt Ion: 78 Resp: 149749



Abundance Ion 78.10 (77.80 to 78.80): VU0

5.36



80000

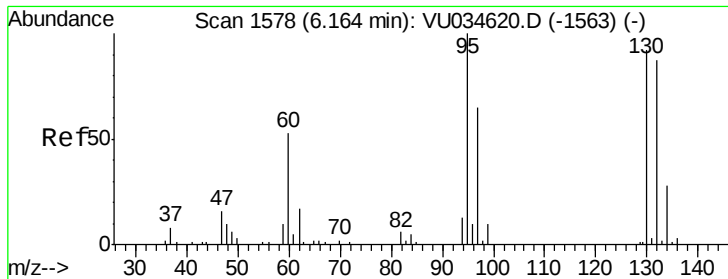
60000

40000

20000

0

Time--> 5.20 5.30 5.40 5.50



#34

Trichloroethene

Concen: 5.442 ug/L

RT: 6.16 min Scan# 1577

Delta R.T. -0.00 min

Lab File: VU034623.D

Acq: 17 Sep 2019 18:26

Instrument :

MSVOA_U

ClientSampleId :

BFB09

Tgt Ion: 95 Resp: 37931

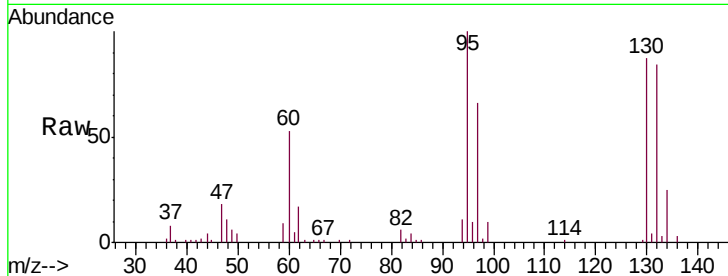
Ion Ratio Lower Upper

95 100

97 65.6 45.2 84.0

132 83.8 60.9 113.1

130 87.2 64.3 119.3



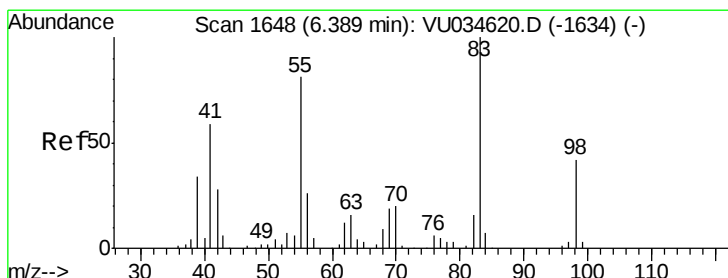
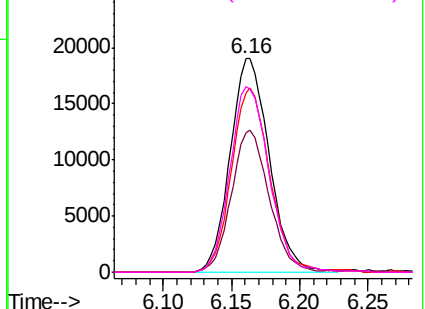
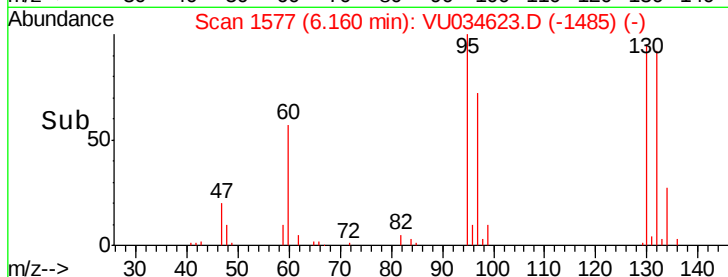
Abundance

Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 5.111 ug/L

RT: 6.39 min Scan# 1648

Delta R.T. -0.00 min

Lab File: VU034623.D

Acq: 17 Sep 2019 18:26

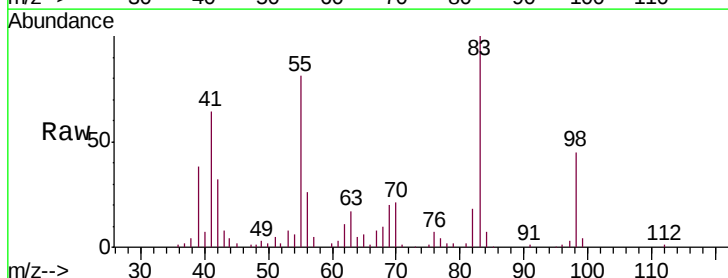
Tgt Ion: 83 Resp: 57539

Ion Ratio Lower Upper

83 100

55 83.5 66.8 100.2

98 44.2 35.4 53.0

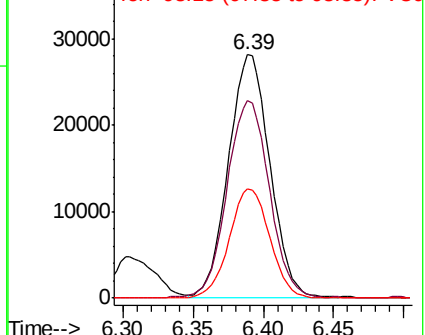
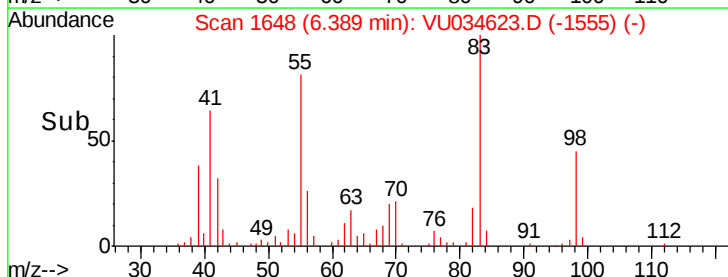


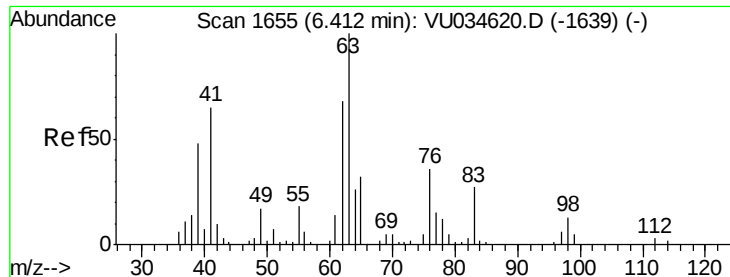
Abundance

Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

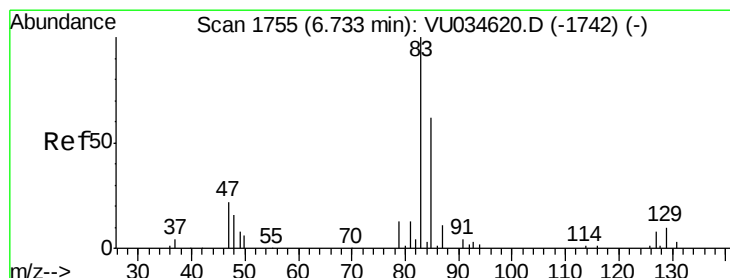
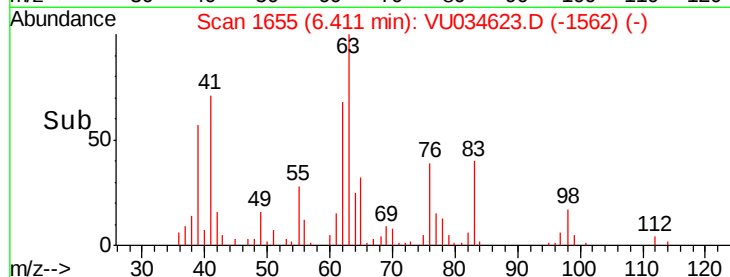
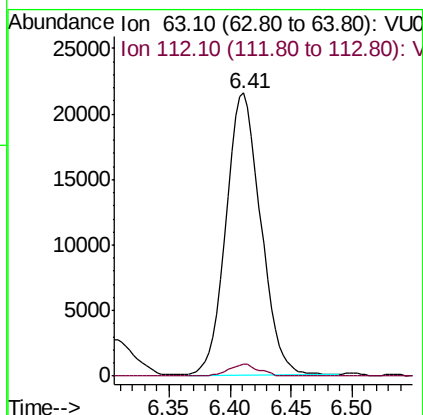
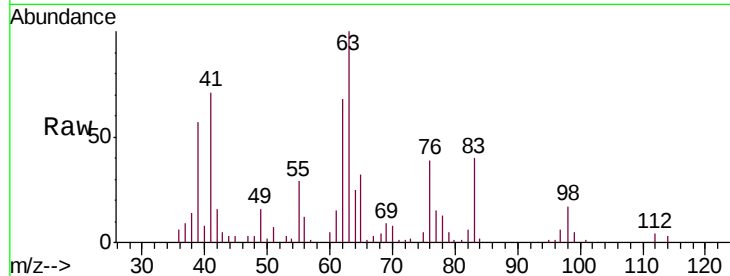




#37
 1,2-Dichloropropane
 Concen: 4.961 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU034623.D
 Acq: 17 Sep 2019 18:26

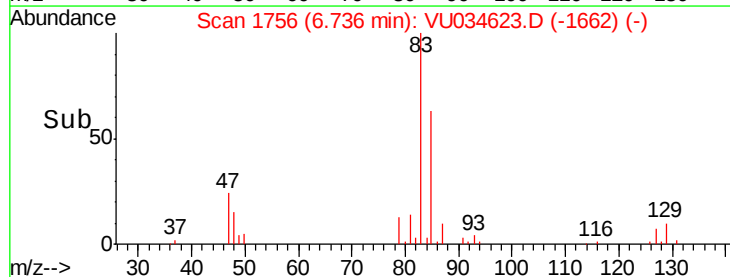
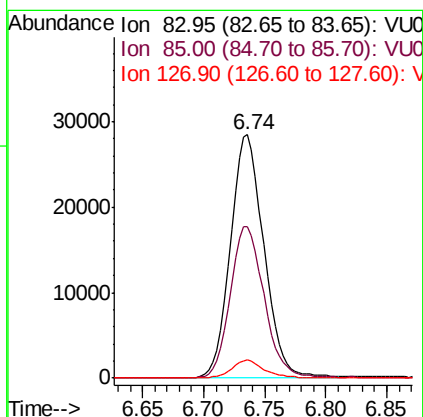
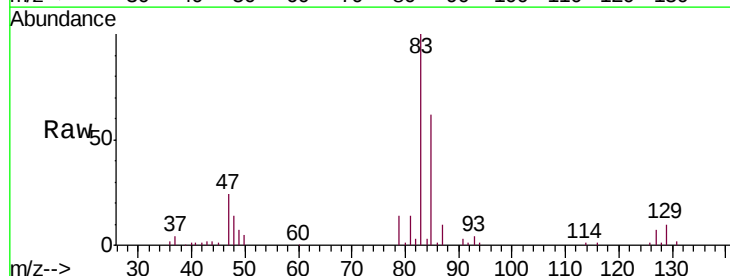
Instrument :
 MSVOA_U
 ClientSampleID :
 BFB09

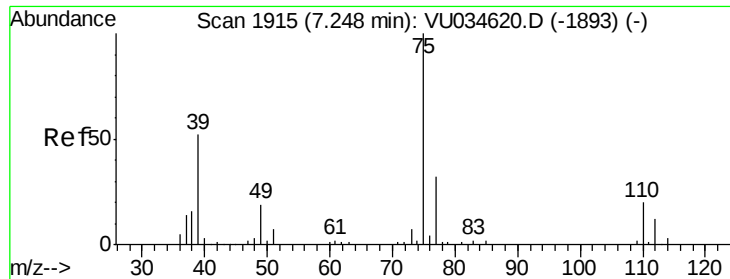
Tgt Ion: 63 Resp: 42824
 Ion Ratio Lower Upper
 63 100
 112 3.6 2.2 3.2#



#38
 Bromodichloromethane
 Concen: 5.270 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VU034623.D
 Acq: 17 Sep 2019 18:26

Tgt Ion: 83 Resp: 54436
 Ion Ratio Lower Upper
 83 100
 85 62.4 43.4 80.6
 127 7.3 6.2 9.2

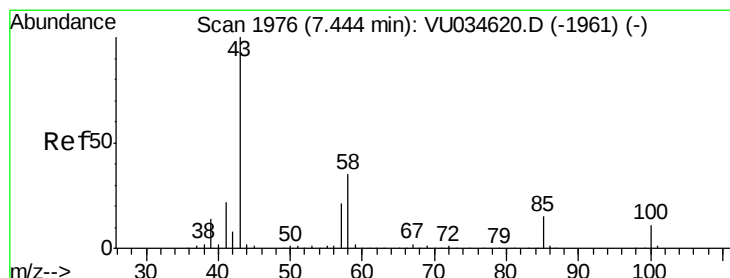
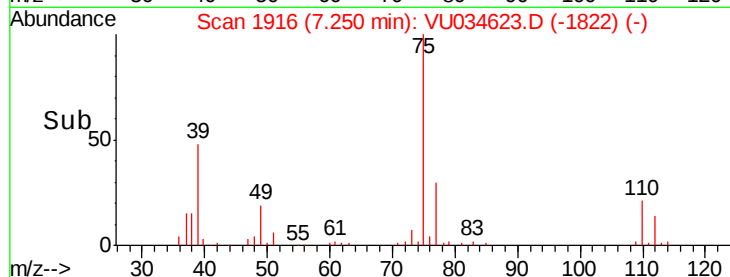
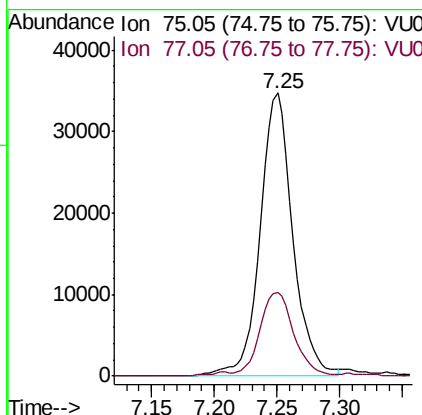
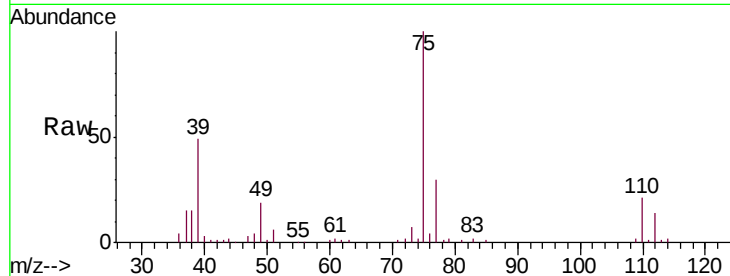




#39
 cis-1,3-Dichloropropene
 Concen: 5.185 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VU034623.D
 Acq: 17 Sep 2019 18:26

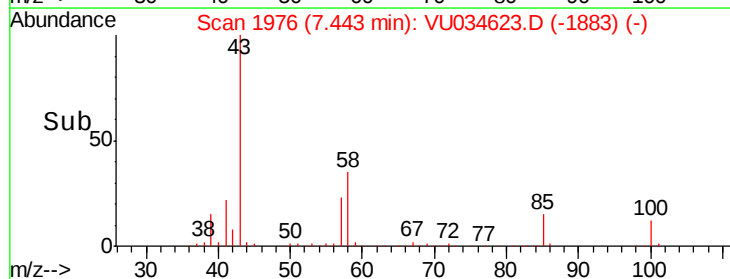
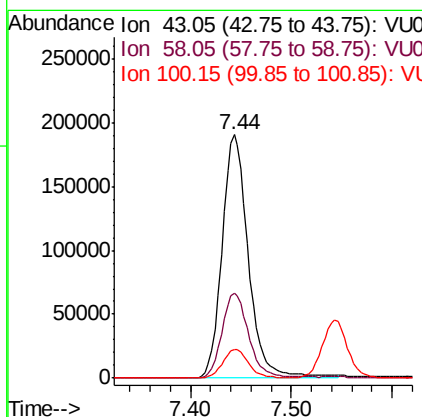
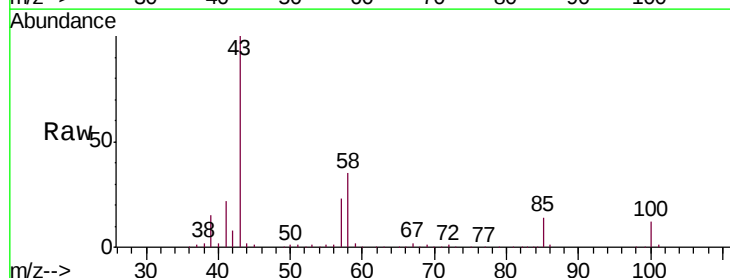
Instrument :
 MSVOA_U
 ClientSampleId :
 BFB09

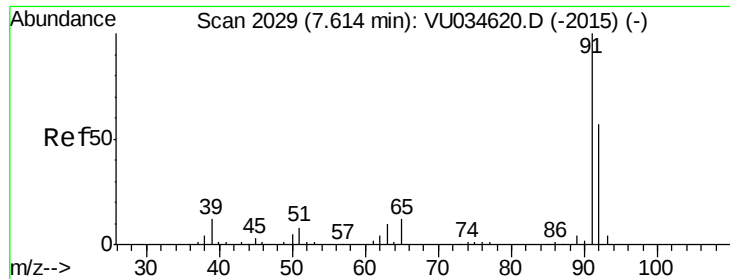
Tgt Ion: 75 Resp: 63023
 Ion Ratio Lower Upper
 75 100
 77 29.7 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 53.211 ug/L
 RT: 7.44 min Scan# 1976
 Delta R.T. -0.00 min
 Lab File: VU034623.D
 Acq: 17 Sep 2019 18:26

Tgt Ion: 43 Resp: 346217
 Ion Ratio Lower Upper
 43 100
 58 35.6 28.6 42.8
 100 11.5 8.9 13.3





#42

Toluene

Concen: 5.150 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. -0.00 min

Lab File: VU034623.D

Acq: 17 Sep 2019 18:26

Instrument :

MSVOA_U

ClientSampleId :

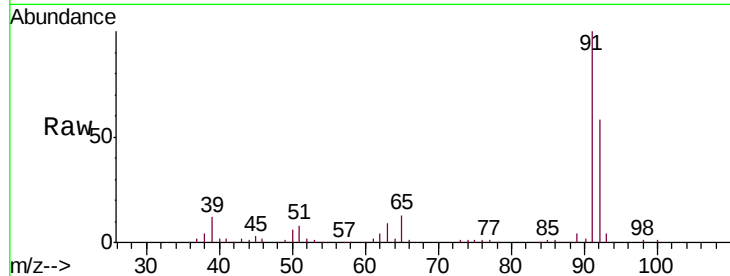
BFB09

Tgt Ion: 91 Resp: 155623

Ion Ratio Lower Upper

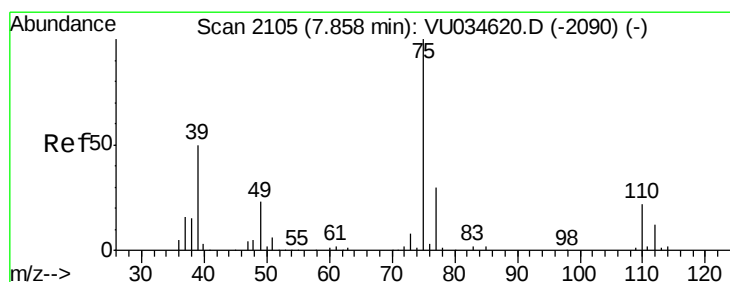
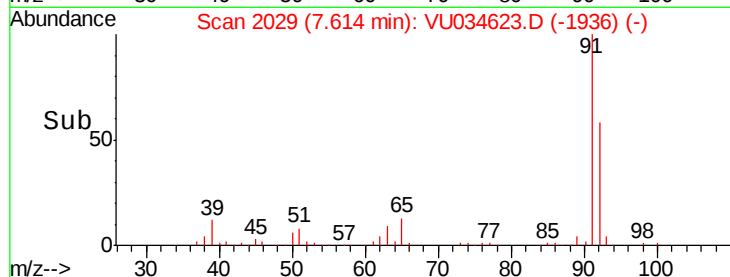
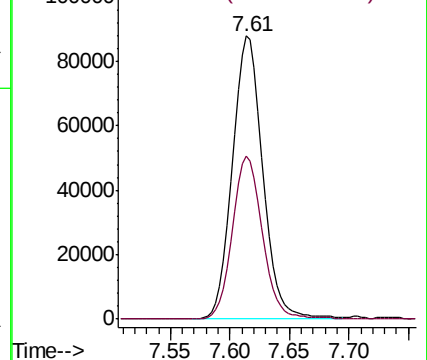
91 100

92 57.6 39.6 73.6



Abundance Ion 91.15 (90.85 to 91.85): VU034623.D (-1936) (-)

Ion 92.15 (91.85 to 92.85): VU034623.D (-1936) (-)



#44

trans-1,3-Dichloropropene

Concen: 5.069 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU034623.D

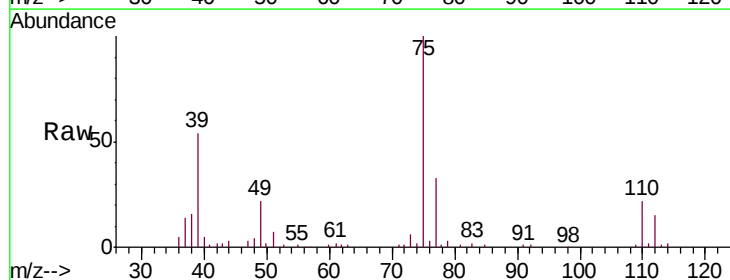
Acq: 17 Sep 2019 18:26

Tgt Ion: 75 Resp: 49982

Ion Ratio Lower Upper

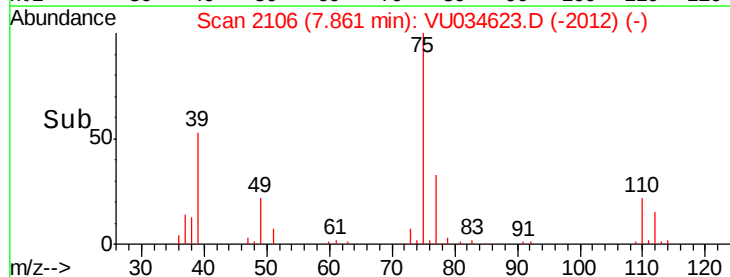
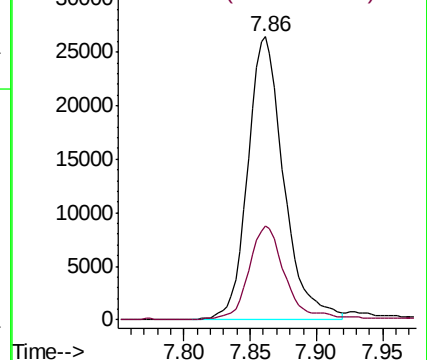
75 100

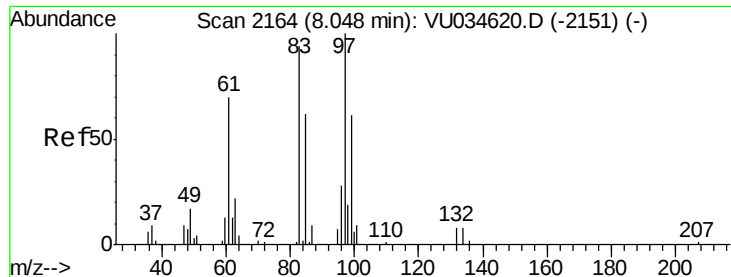
77 33.0 21.1 39.3



Abundance Ion 75.05 (74.75 to 75.75): VU034623.D (-2102) (-)

Ion 77.05 (76.75 to 77.75): VU034623.D (-2102) (-)

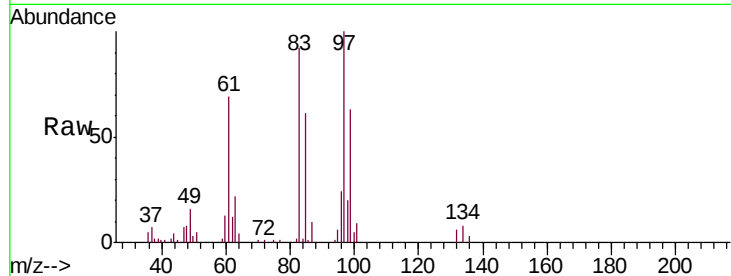




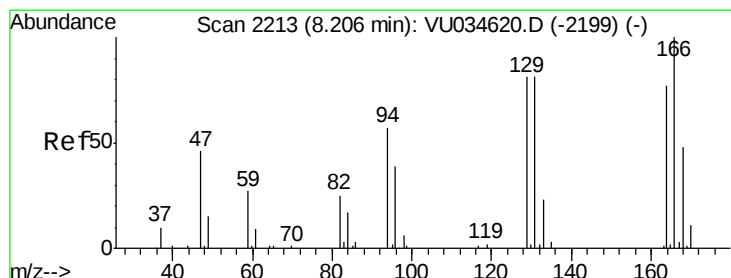
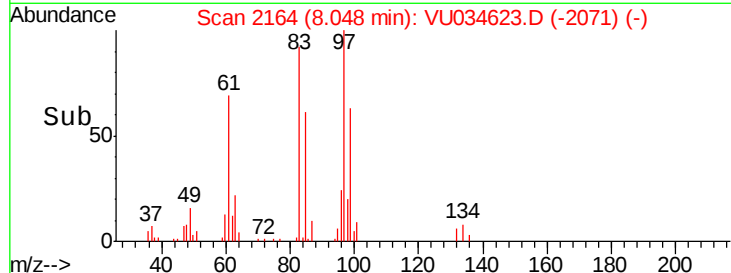
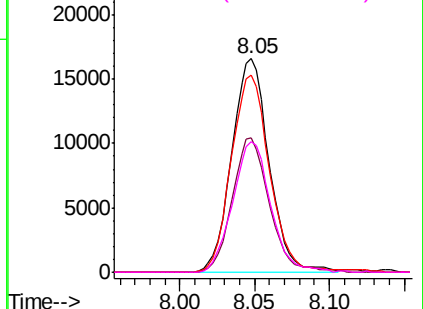
#45
 1,1,2-Trichloroethane
 Concen: 5.230 ug/L
 RT: 8.05 min Scan# 2164
 Delta R.T. -0.00 min
 Lab File: VU034623.D
 Acq: 17 Sep 2019 18:26

Instrument :
 MSVOA_U
 ClientSampleId :
 BFB09

Tgt Ion: 97 Resp: 28714
 Ion Ratio Lower Upper
 97 100
 99 63.0 42.5 78.9
 83 92.4 65.9 122.5
 85 61.3 43.5 80.9

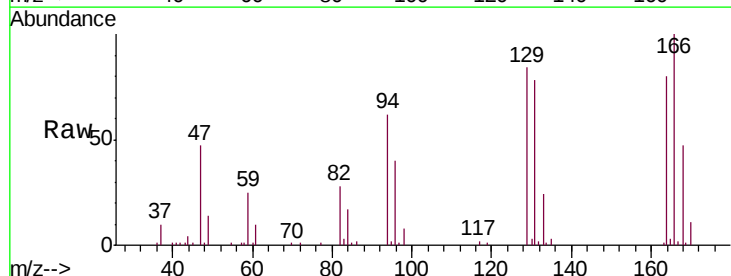


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

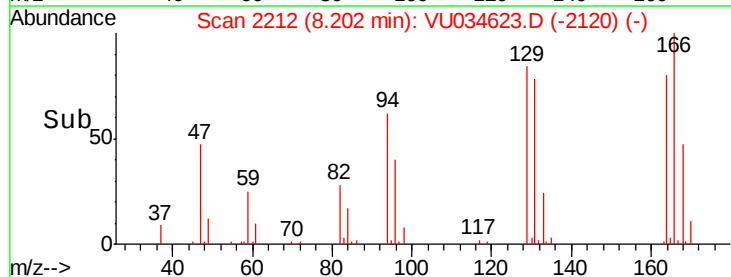
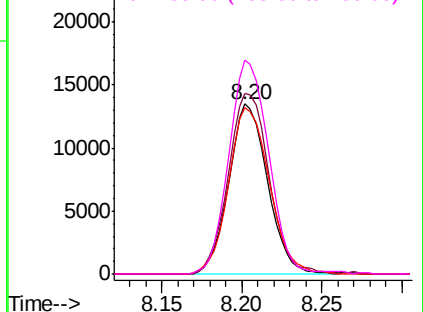


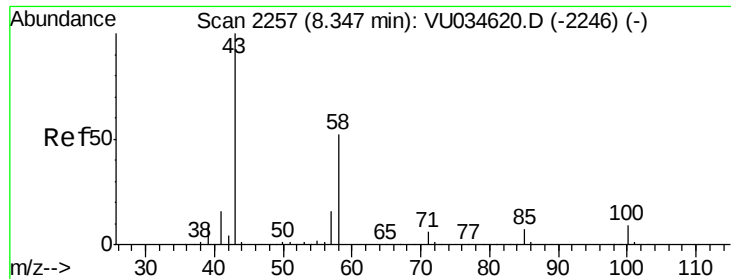
#47
 Tetrachloroethene
 Concen: 5.284 ug/L
 RT: 8.20 min Scan# 2212
 Delta R.T. -0.00 min
 Lab File: VU034623.D
 Acq: 17 Sep 2019 18:26

Tgt Ion: 164 Resp: 22328
 Ion Ratio Lower Upper
 164 100
 129 106.2 73.6 136.8
 131 97.7 73.4 136.4
 166 125.8 90.6 168.3



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 128.95 (128.65 to 129.65): V
 Ion 130.95 (130.65 to 131.65): V
 Ion 165.90 (165.60 to 166.60): V

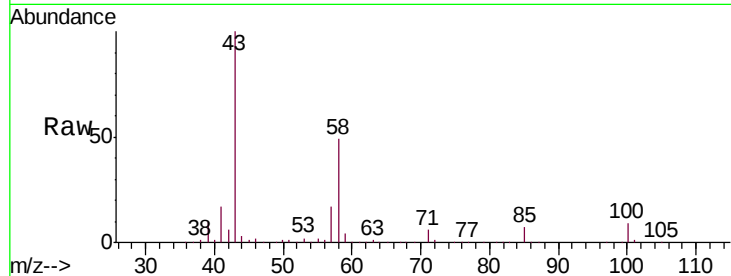




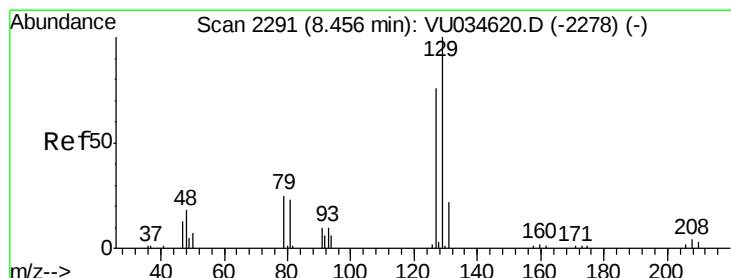
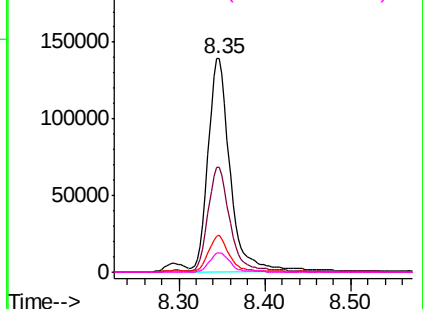
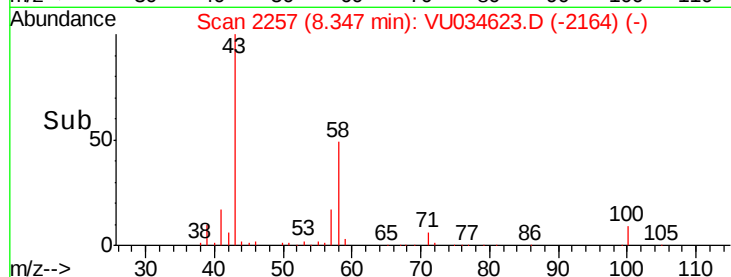
#48
2-Hexanone
Concen: 56.864 ug/L
RT: 8.35 min Scan# 2257
Delta R.T. -0.00 min
Lab File: VU034623.D
Acq: 17 Sep 2019 18:26

Instrument :
MSVOA_U
ClientSampleId :
BFB09

Tgt Ion:	43	Resp:	248656
Ion	Ratio	Lower	Upper
43	100		
58	49.1	41.2	61.8
57	16.4	13.3	19.9
100	8.9	7.2	10.8

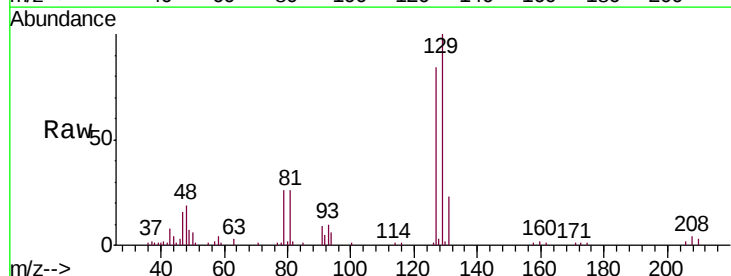


Abundance Ion 43.05 (42.75 to 43.75): VU034623.D (-2164) (-)
Ion 58.05 (57.75 to 58.75): VU034623.D (-2164) (-)
Ion 57.20 (56.90 to 57.90): VU034623.D (-2164) (-)
Ion 100.15 (99.85 to 100.85): VU034623.D (-2164) (-)

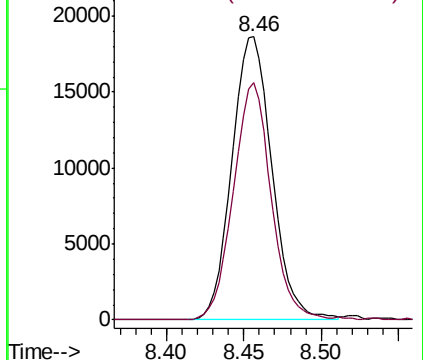
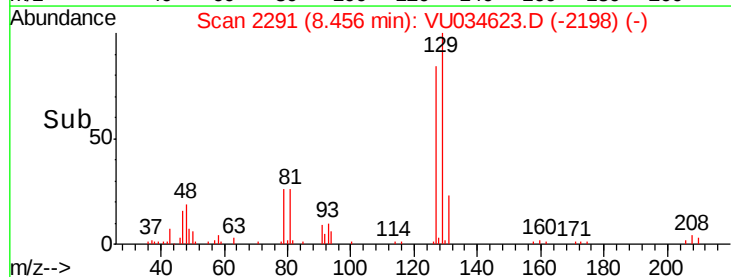


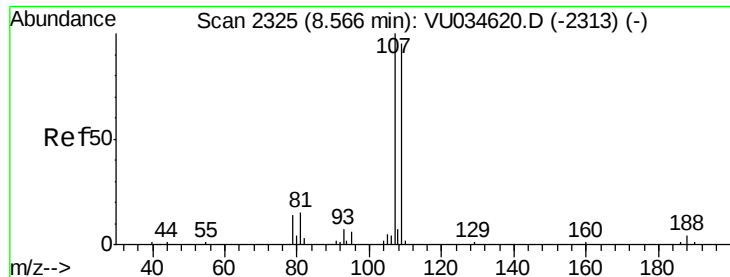
#49
Dibromochloromethane
Concen: 5.215 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU034623.D
Acq: 17 Sep 2019 18:26

Tgt Ion:	129	Resp:	33583
Ion	Ratio	Lower	Upper
129	100		
127	84.1	53.0	98.4



Abundance Ion 128.95 (128.65 to 129.65): VU034623.D (-2198) (-)
Ion 126.90 (126.60 to 127.60): VU034623.D (-2198) (-)

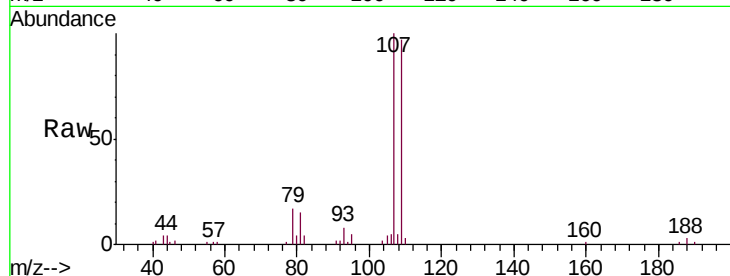




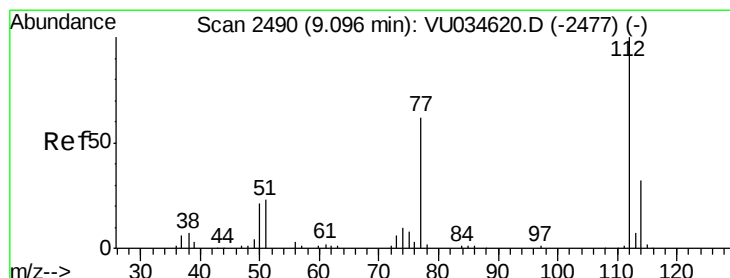
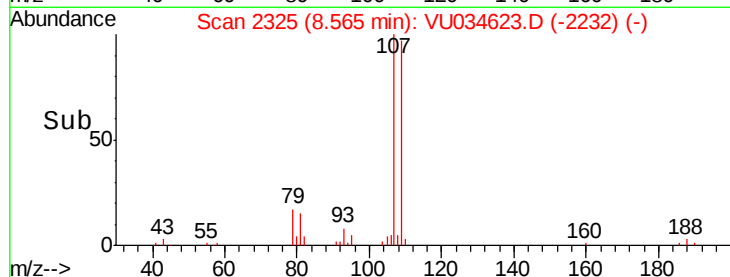
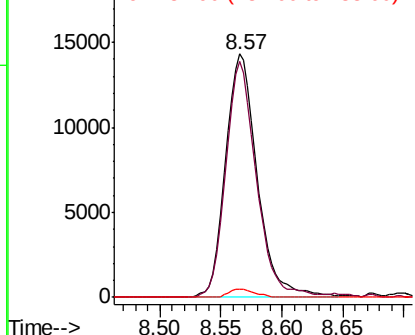
#50
1,2-Dibromoethane
Concen: 5.227 ug/L
RT: 8.57 min Scan# 2325
Delta R.T. -0.00 min
Lab File: VU034623.D
Acq: 17 Sep 2019 18:26

Instrument :
MSVOA_U
ClientSampleId :
BFB09

Tgt Ion	Ratio	Lower	Upper
107	100		
109	96.9	66.3	123.1
188	3.3	2.9	4.3

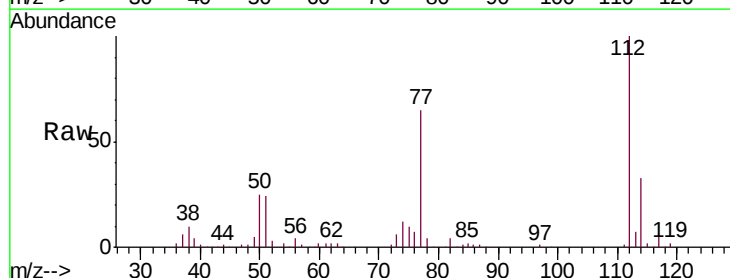


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

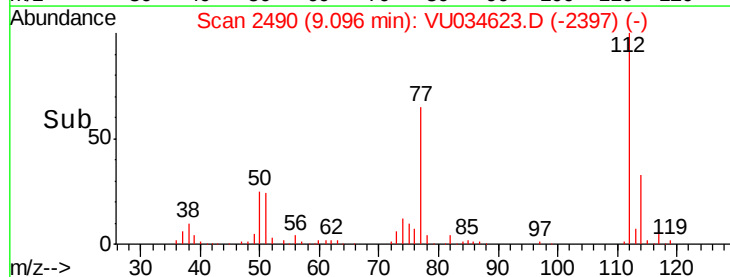
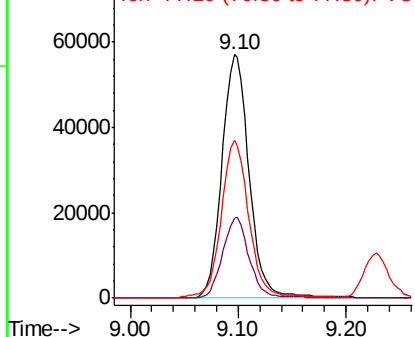


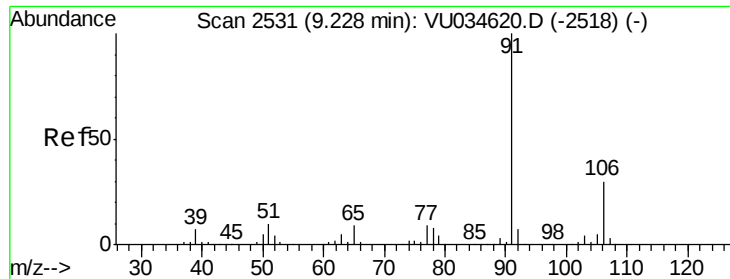
#51
Chlorobenzene
Concen: 5.290 ug/L
RT: 9.10 min Scan# 2490
Delta R.T. -0.00 min
Lab File: VU034623.D
Acq: 17 Sep 2019 18:26

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.8	22.5	41.7
77	64.8	50.3	75.5



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): VU





#52

Ethylbenzene

Concen: 5.346 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. -0.00 min

Lab File: VU034623.D

Acq: 17 Sep 2019 18:26

Instrument :

MSVOA_U

ClientSampleId :

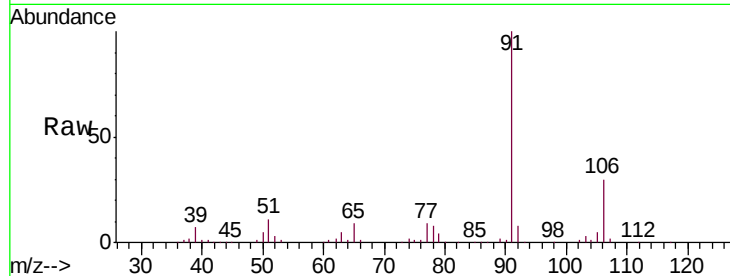
BFB09

Tgt Ion: 91 Resp: 186762

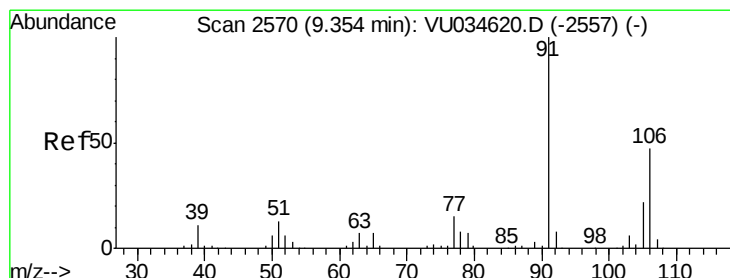
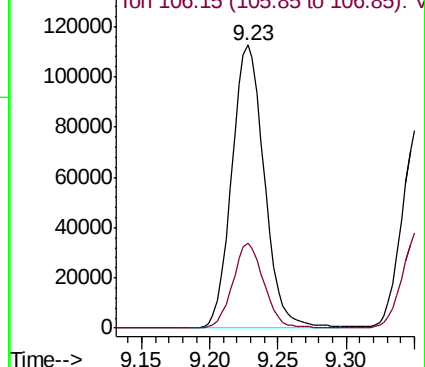
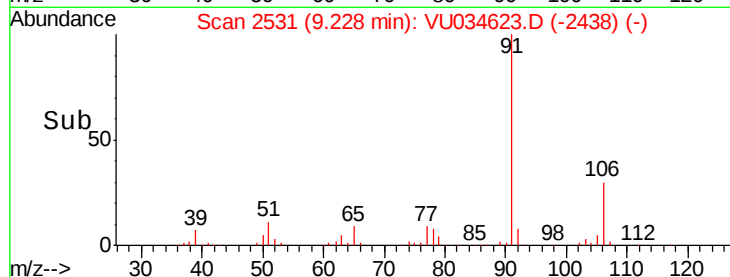
Ion Ratio Lower Upper

91 100

106 29.8 20.9 38.7



Abundance Ion 91.15 (90.85 to 91.85): VU034623.D (-2438) (-)



#53

m,p-Xylene

Concen: 5.418 ug/L

RT: 9.35 min Scan# 2570

Delta R.T. -0.00 min

Lab File: VU034623.D

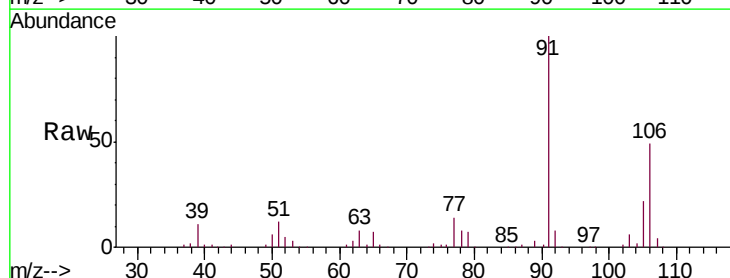
Acq: 17 Sep 2019 18:26

Tgt Ion: 106 Resp: 67112

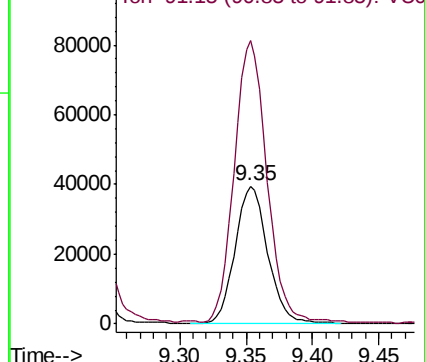
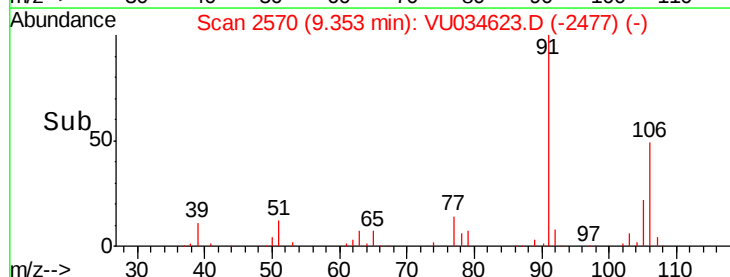
Ion Ratio Lower Upper

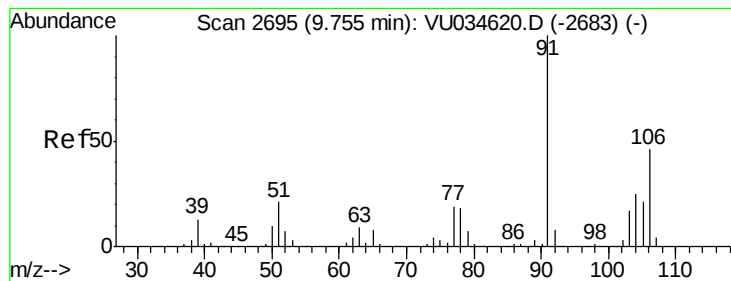
106 100

91 205.8 147.8 274.4



Abundance Ion 106.15 (105.85 to 106.85): VU034623.D (-2477) (-)





#54

o-Xylene

Concen: 5.248 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. -0.00 min

Lab File: VU034623.D

Acq: 17 Sep 2019 18:26

Instrument :

MSVOA_U

ClientSampleId :

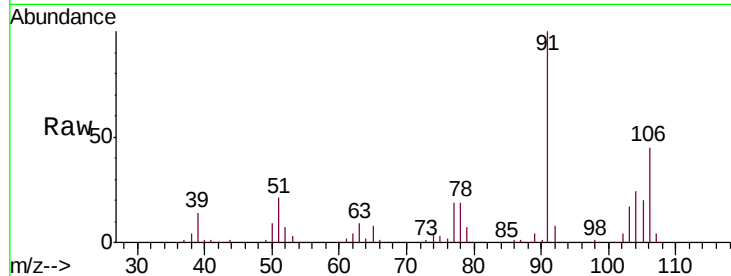
BFB09

Tgt Ion:106 Resp: 65313

Ion Ratio Lower Upper

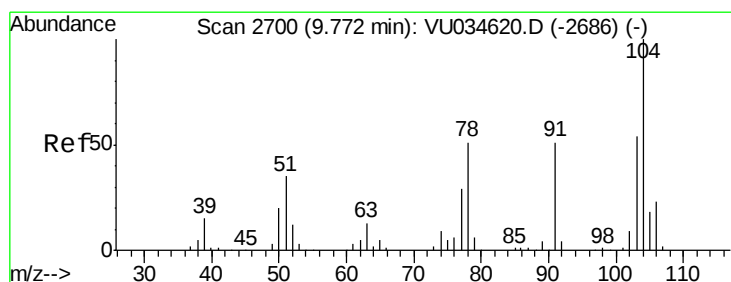
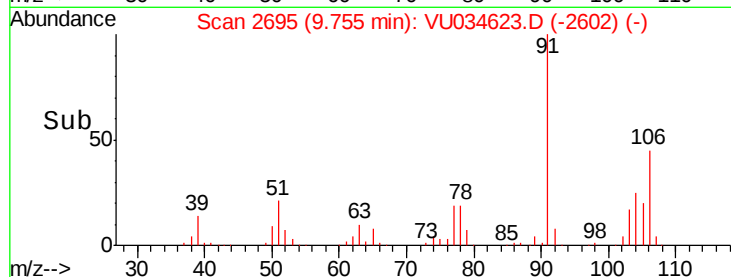
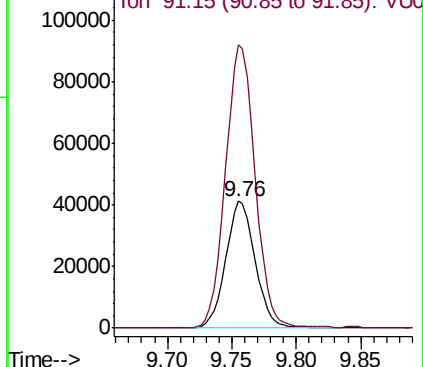
106 100

91 223.0 151.9 282.1



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 5.456 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. -0.00 min

Lab File: VU034623.D

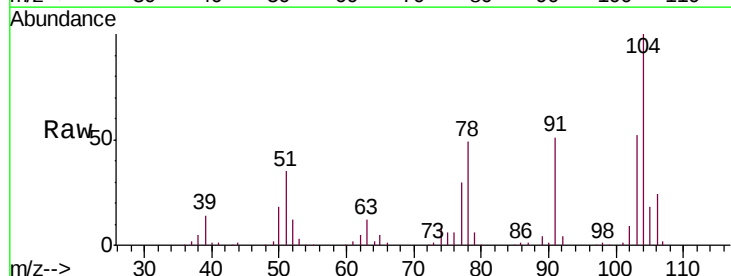
Acq: 17 Sep 2019 18:26

Tgt Ion:104 Resp: 112786

Ion Ratio Lower Upper

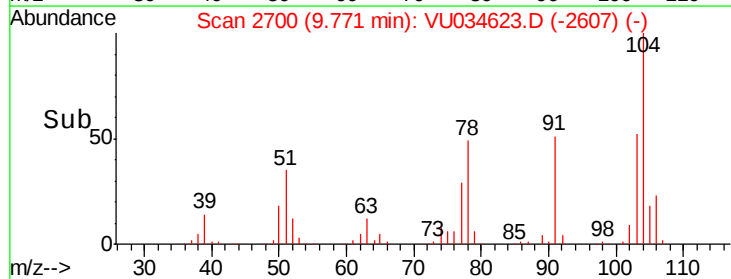
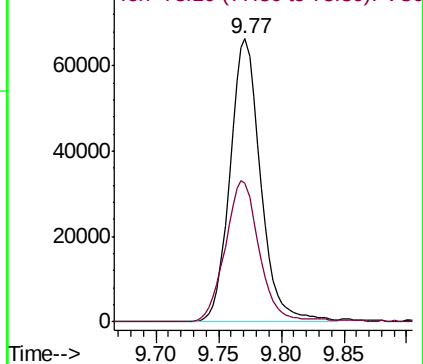
104 100

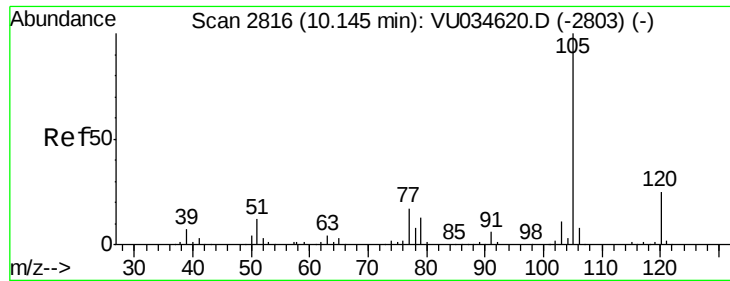
78 49.2 35.4 65.8



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 5.163 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. -0.00 min

Lab File: VU034623.D

Acq: 17 Sep 2019 18:26

Instrument :

MSVOA_U

ClientSampleId :

BFB09

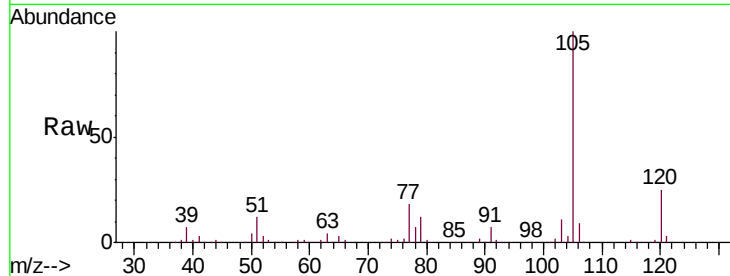
Tgt Ion: 105 Resp: 178511

Ion Ratio Lower Upper

105 100

120 25.4 19.8 29.6

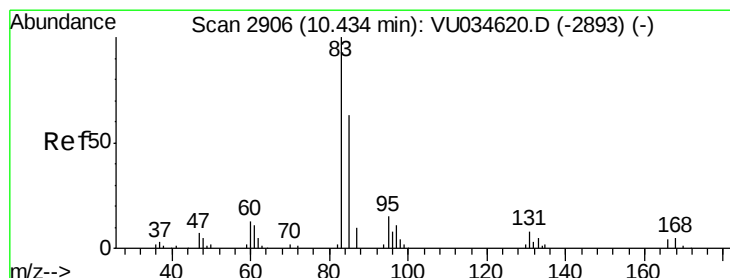
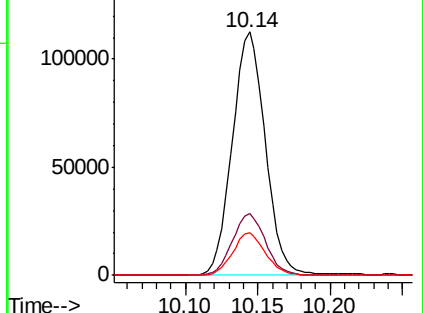
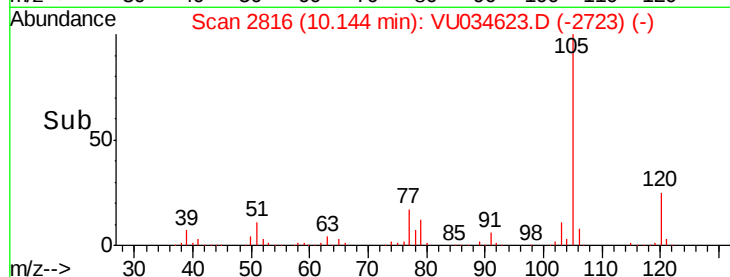
77 17.3 13.9 20.9



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: 5.332 ug/L

RT: 10.44 min Scan# 2907

Delta R.T. 0.00 min

Lab File: VU034623.D

Acq: 17 Sep 2019 18:26

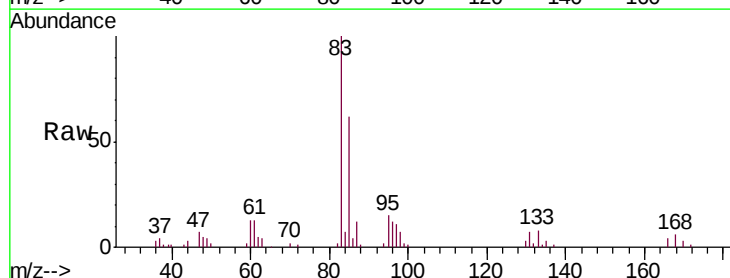
Tgt Ion: 83 Resp: 43220

Ion Ratio Lower Upper

83 100

85 61.9 44.4 82.4

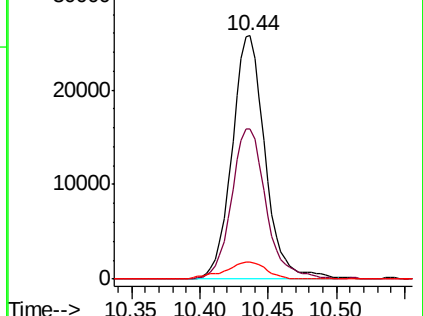
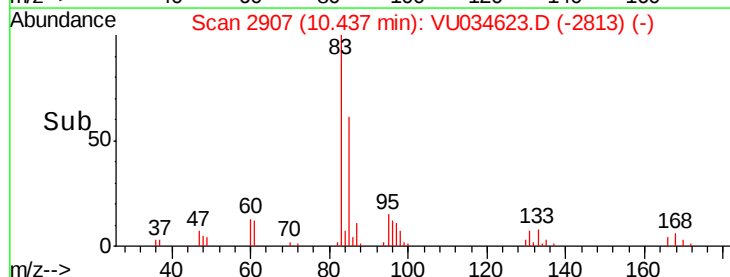
131 7.2 6.7 10.1

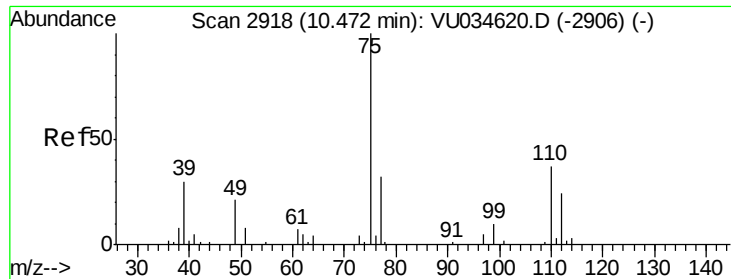


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

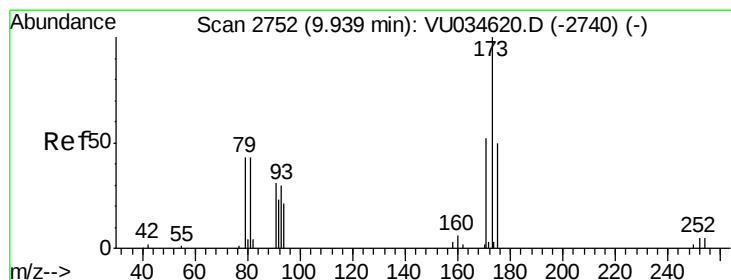
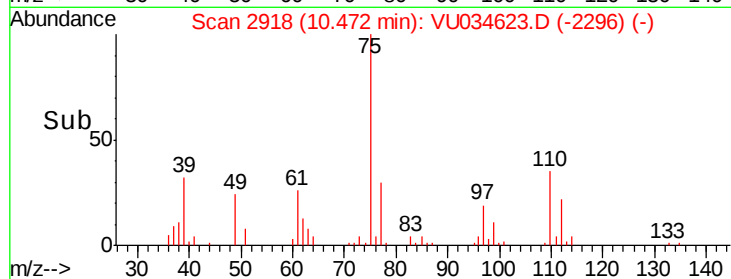
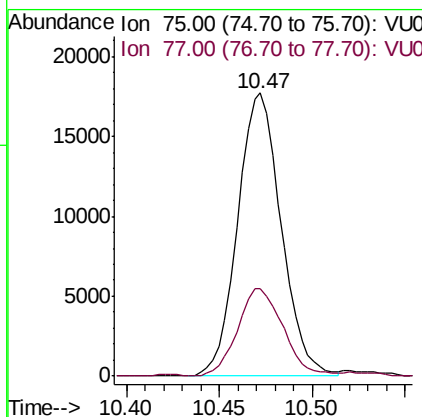
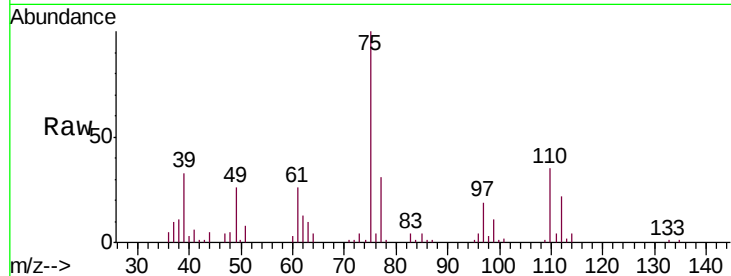




#59
 1,2,3-Trichloropropane
 Concen: 5.139 ug/L
 RT: 10.47 min Scan# 2918
 Delta R.T. -0.00 min
 Lab File: VU034623.D
 Acq: 17 Sep 2019 18:26

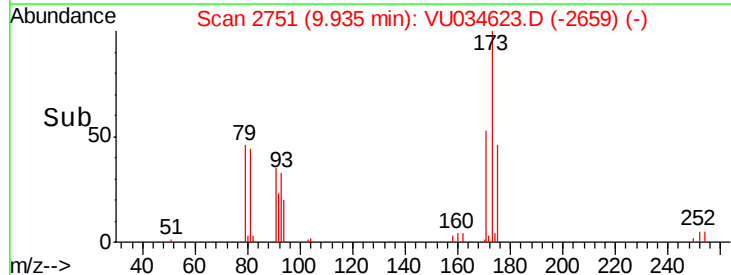
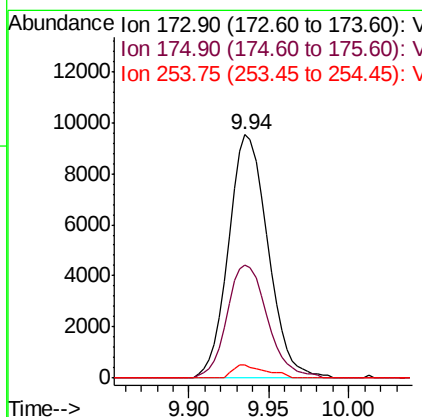
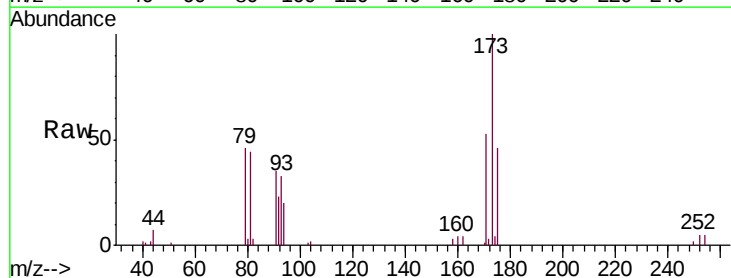
Instrument :
 MSVOA_U
 ClientSampleId :
 BFB09

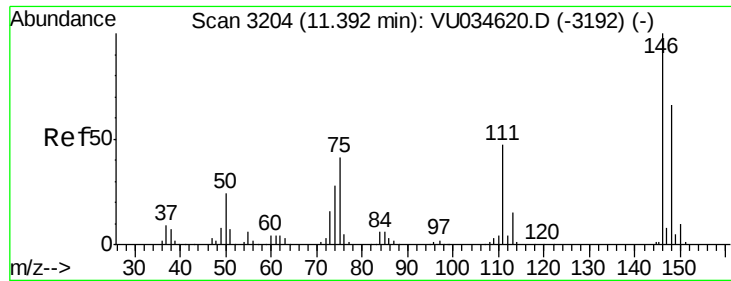
Tgt Ion: 75 Resp: 28979
 Ion Ratio Lower Upper
 75 100
 77 32.5 26.0 39.0



#61
 Bromoform
 Concen: 5.084 ug/L
 RT: 9.94 min Scan# 2751
 Delta R.T. -0.00 min
 Lab File: VU034623.D
 Acq: 17 Sep 2019 18:26

Tgt Ion: 173 Resp: 15986
 Ion Ratio Lower Upper
 173 100
 175 47.6 40.0 60.0
 254 4.5 3.5 5.3





#62

1,3-Dichlorobenzene

Concen: 5.364 ug/L

RT: 11.39 min Scan# 3204

Delta R.T. -0.00 min

Lab File: VU034623.D

Acq: 17 Sep 2019 18:26

Instrument :

MSVOA_U

ClientSampleId :

BFB09

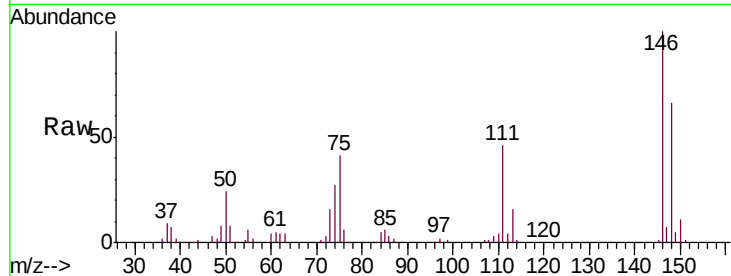
Tgt Ion:146 Resp: 74961

Ion Ratio Lower Upper

146 100

111 46.0 32.8 61.0

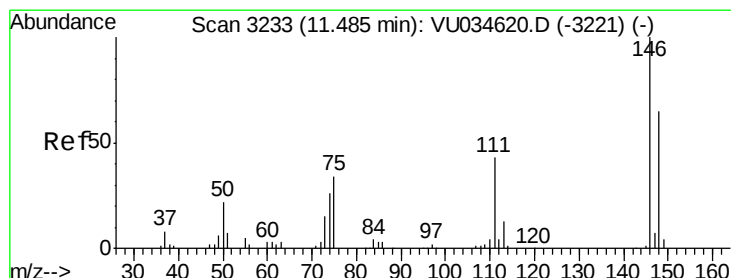
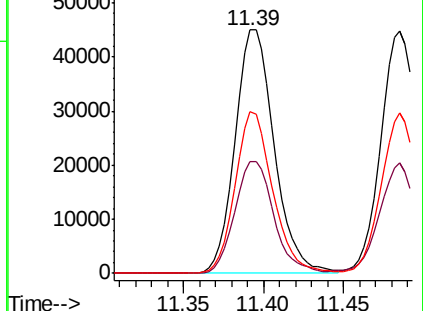
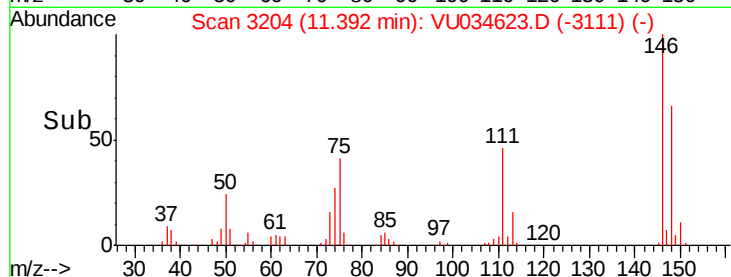
148 66.4 45.9 85.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 5.329 ug/L

RT: 11.48 min Scan# 3233

Delta R.T. -0.00 min

Lab File: VU034623.D

Acq: 17 Sep 2019 18:26

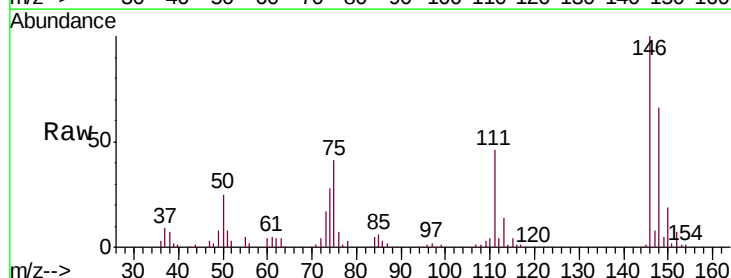
Tgt Ion:146 Resp: 74340

Ion Ratio Lower Upper

146 100

111 45.7 30.2 56.2

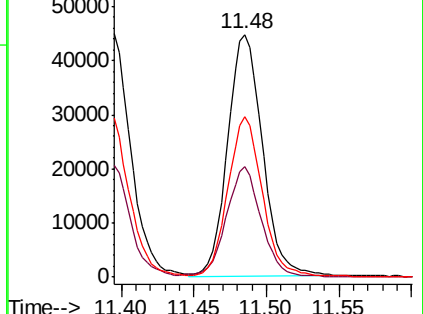
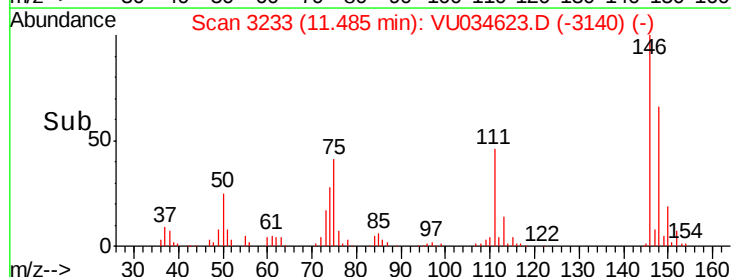
148 66.1 45.4 84.4

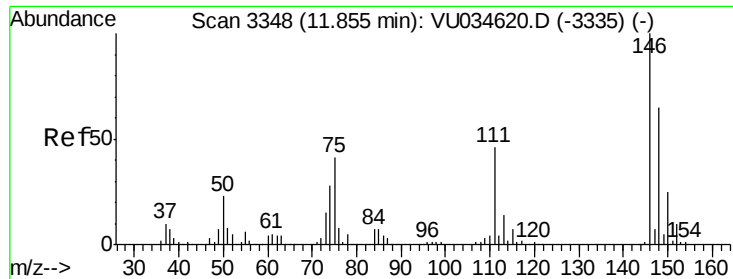


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.349 ug/L

RT: 11.85 min Scan# 3348

Delta R.T. -0.00 min

Lab File: VU034623.D

Acq: 17 Sep 2019 18:26

Instrument :

MSVOA_U

ClientSampleId :

BFB09

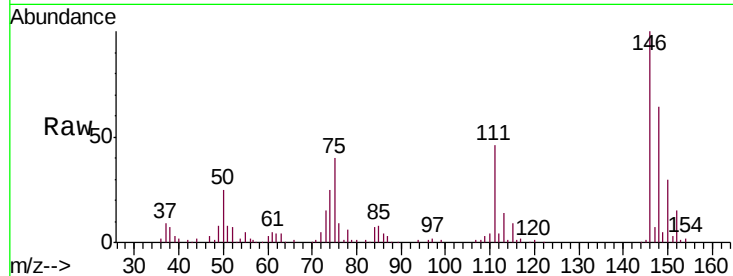
Tgt Ion:146 Resp: 73160

Ion Ratio Lower Upper

146 100

111 45.9 37.1 55.7

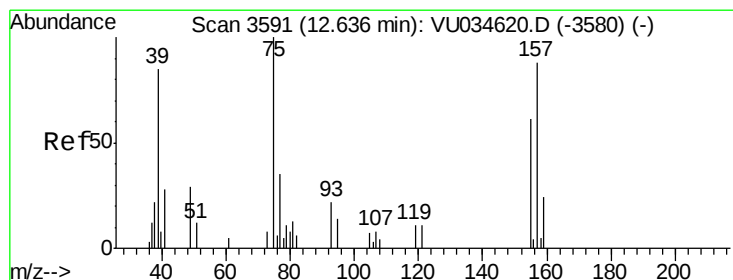
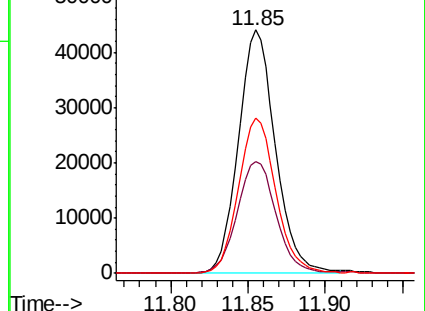
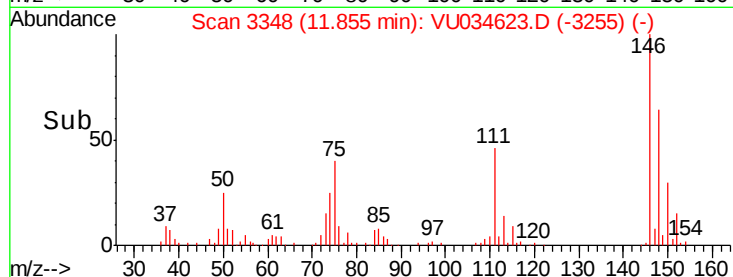
148 63.7 51.8 77.6



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 5.733 ug/L

RT: 12.64 min Scan# 3591

Delta R.T. -0.00 min

Lab File: VU034623.D

Acq: 17 Sep 2019 18:26

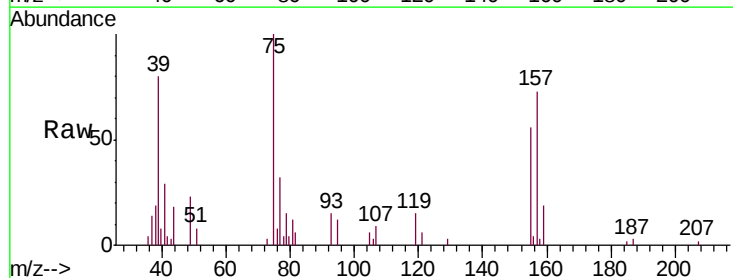
Tgt Ion: 75 Resp: 7102

Ion Ratio Lower Upper

75 100

155 56.4 49.1 73.7

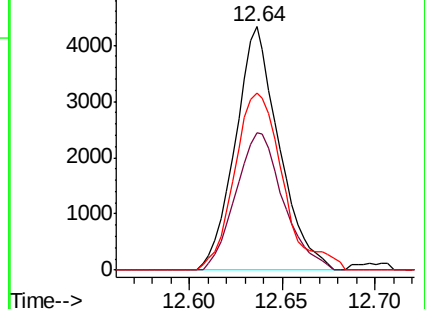
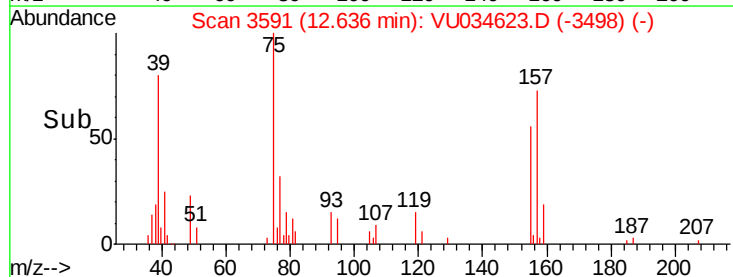
157 72.8 70.8 106.2

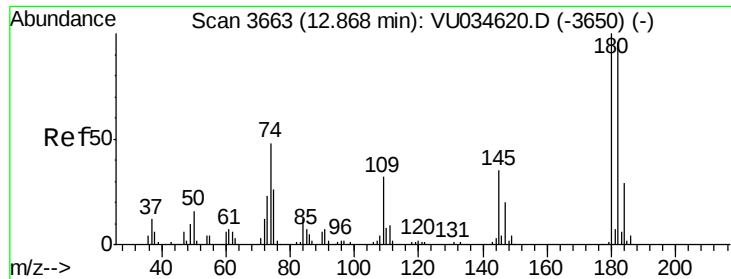


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

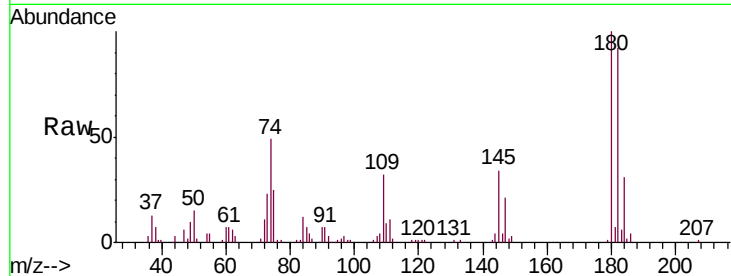




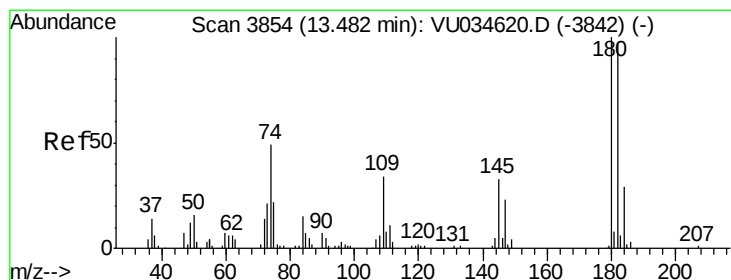
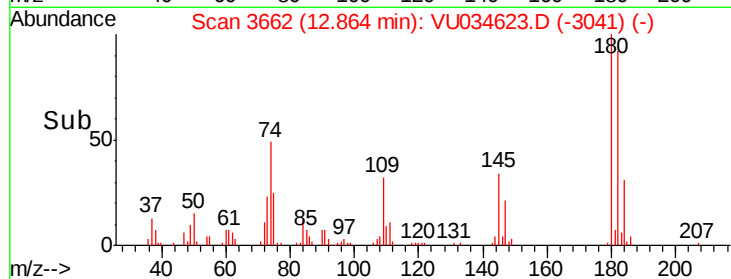
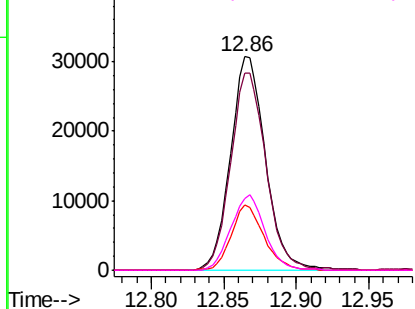
#67
 1,3,5-Trichlorobenzene
 Concen: 5.629 ug/L
 RT: 12.86 min Scan# 3662
 Delta R.T. -0.00 min
 Lab File: VU034623.D
 Acq: 17 Sep 2019 18:26

Instrument :
 MSVOA_U
 ClientSampleId :
 BFB09

Tgt Ion:180 Resp: 51414
 Ion Ratio Lower Upper
 180 100
 182 93.1 74.5 111.7
 184 28.7 23.4 35.2
 145 34.3 27.0 40.4

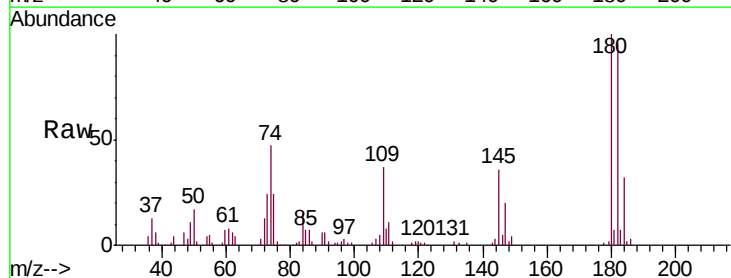


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

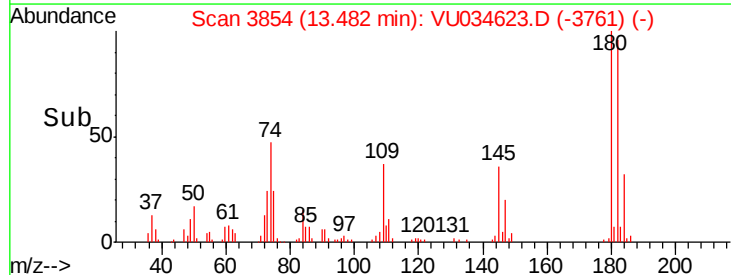
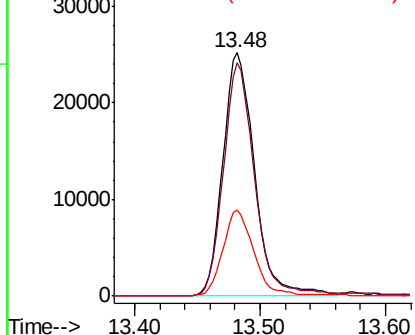


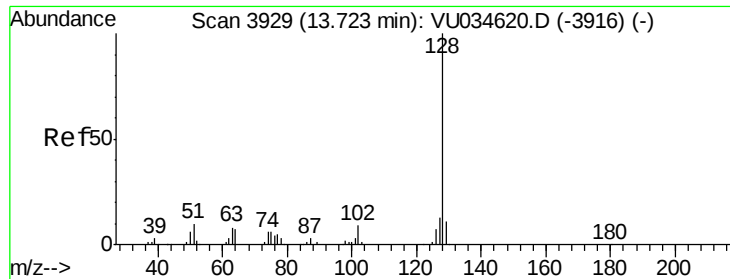
#68
 1,2,4-trichlorobenzene
 Concen: 6.085 ug/L
 RT: 13.48 min Scan# 3854
 Delta R.T. -0.00 min
 Lab File: VU034623.D
 Acq: 17 Sep 2019 18:26

Tgt Ion:180 Resp: 44318
 Ion Ratio Lower Upper
 180 100
 182 93.8 76.9 115.3
 145 34.5 26.2 39.4



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

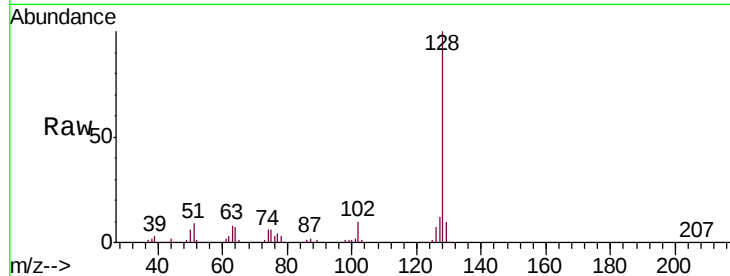




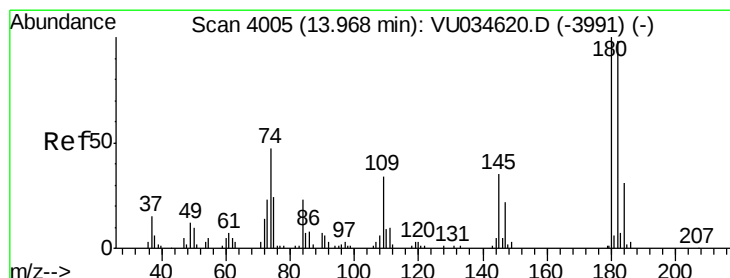
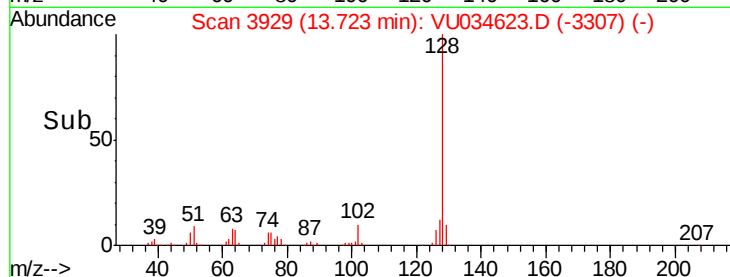
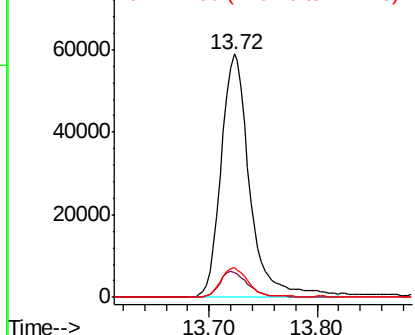
#69
Naphthalene
Concen: 6.173 ug/L
RT: 13.72 min Scan# 3929
Delta R.T. -0.00 min
Lab File: VU034623.D
Acq: 17 Sep 2019 18:26

Instrument :
MSVOA_U
ClientSampleId :
BFB09

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.7	9.2	13.8
127	12.2	10.7	16.1

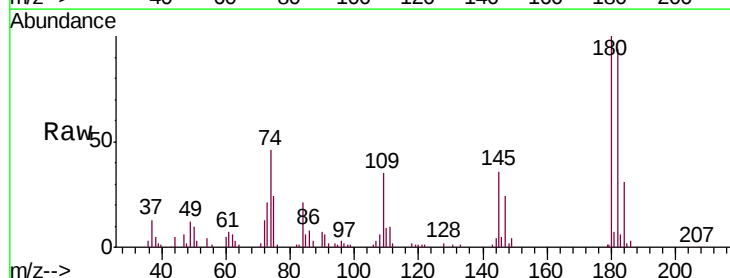


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V



#70
1,2,3-Trichlorobenzene
Concen: 5.959 ug/L
RT: 13.97 min Scan# 4005
Delta R.T. -0.00 min
Lab File: VU034623.D
Acq: 17 Sep 2019 18:26

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.9	76.6	114.8
145	36.5	28.9	43.3



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

