

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121319\
 Data File : VU036195.D
 Acq On : 13 Dec 2019 14:11
 Operator : JC/MD
 Sample : VSTD02005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02005

Quant Time: Dec 14 00:26:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121319WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Dec 14 00:22:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	296925	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	304284	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	171229	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	517853	17.77	ug/L	0.00
7) Chloroethane-d5	1.93	69	469734	18.26	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.59	63	731235	18.74	ug/L	0.00
20) 2-Butanone-d5	4.69	46	1061773	221.08	ug/L	0.00
24) Chloroform-d	5.11	84	821872	19.09	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.75	65	412165	18.77	ug/L	0.00
32) Benzene-d6	5.77	84	1621986	20.38	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.73	67	499204	20.18	ug/L	0.00
41) Toluene-d8	7.93	98	1605767	21.88	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.21	79	226784	21.74	ug/L	0.00
46) 2-Hexanone-d5	8.67	63	996011	260.72	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.78	84	457821	20.64	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.21	152	648830	20.18	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	616101	18.772 ug/L	98
3) Chloromethane	1.54	50	734369	17.326 ug/L	100
5) Vinyl chloride	1.62	62	756487	19.319 ug/L	99
6) Bromomethane	1.87	94	402717	17.181 ug/L	98
8) Chloroethane	1.95	64	455008	19.071 ug/L	97
9) Trichlorofluoromethane	2.16	101	930042	19.312 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	439346	18.659 ug/L	99
12) 1,1-Dichloroethene	2.60	96	424554	19.099 ug/L	93
13) Acetone	2.68	43	692677	165.961 ug/L	97
14) Carbon disulfide	2.82	76	1374210	18.668 ug/L	100
15) Methyl Acetate	3.00	43	167924	18.709 ug/L	98
16) Methylene chloride	3.08	84	474794	15.227 ug/L	98
17) Methyl tert-butyl Ether	3.41	73	1015845	21.976 ug/L	98
18) trans-1,2-Dichloroethene	3.39	96	447917	19.408 ug/L	98
19) 1,1-Dichloroethane	3.92	63	804205	18.959 ug/L	100
21) 2-Butanone	4.77	43	1165762	210.062 ug/L	97
22) cis-1,2-Dichloroethene	4.72	96	504736	21.275 ug/L	99
23) Bromochloromethane	5.02	128	227666	19.281 ug/L	97
25) Chloroform	5.13	83	844881	18.870 ug/L	98
27) 1,2-Dichloroethane	5.84	62	526782	19.990 ug/L	99
29) 1,1,1-Trichloroethane	5.36	97	729359	19.701 ug/L	98
30) Cyclohexane	5.43	56	744940	23.703 ug/L	98
31) Carbon tetrachloride	5.57	117	666409	20.149 ug/L	99
33) Benzene	5.82	78	1923130	20.791 ug/L	100
34) Trichloroethene	6.58	95	488851	20.567 ug/L	97
35) Methylcyclohexane	6.80	83	825564	24.444 ug/L	97
37) 1,2-Dichloropropane	6.83	63	478271	20.137 ug/L	98
38) Bromodichloromethane	7.14	83	609478	19.962 ug/L	98
39) cis-1,3-Dichloropropene	7.64	75	742700	23.461 ug/L	99
40) 4-Methyl-2-pentanone	7.84	43	2820559	232.980 ug/L	97

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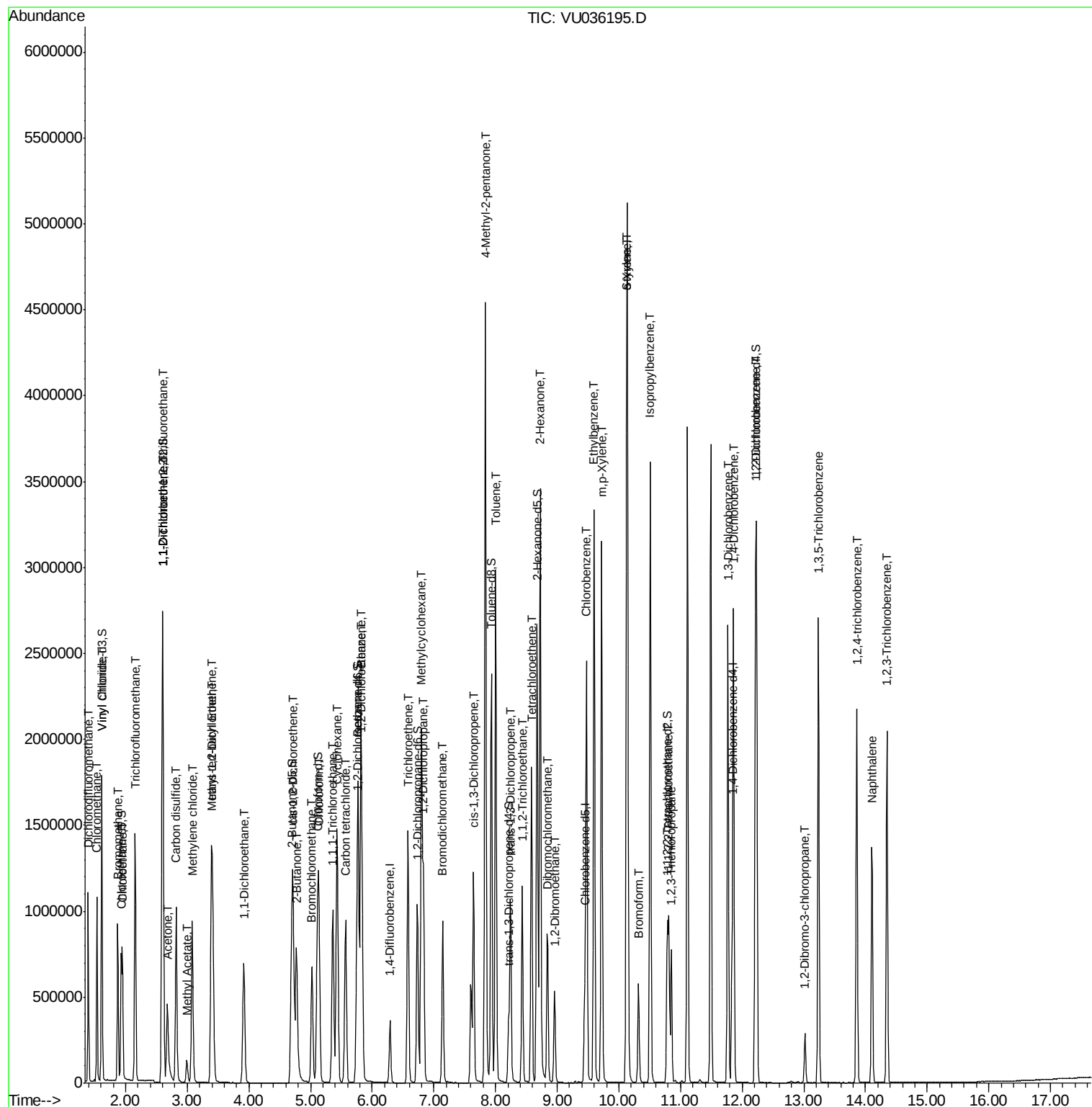
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.00	91	2154731	22.052	ug/L	99
44) trans-1,3-Dichloropropene	8.24	75	605140	22.668	ug/L	100
45) 1,1,2-Trichloroethane	8.43	97	358866	20.493	ug/L	93
47) Tetrachloroethene	8.58	164	435411	21.001	ug/L	96
48) 2-Hexanone	8.73	43	2105330	236.074	ug/L	96
49) Dibromochloromethane	8.84	129	451304	20.591	ug/L	98
50) 1,2-Dibromoethane	8.96	107	349730	21.239	ug/L	99
51) Chlorobenzene	9.47	112	1357979	21.218	ug/L	98
52) Ethylbenzene	9.60	91	2348458	24.493	ug/L	100
53) m,p-Xylene	9.72	106	922078	24.464	ug/L	98
54) o-Xylene	10.13	106	884694	24.600	ug/L	95
55) Styrene	10.14	104	1534175	23.955	ug/L	100
56) Isopropylbenzene	10.51	105	2318141	25.267	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.81	83	455910	20.595	ug/L	99
59) 1,2,3-Trichloropropane	10.85	75	327298	20.865	ug/L	97
61) Bromoform	10.32	173	282294	17.578	ug/L	99
62) 1,3-Dichlorobenzene	11.77	146	1147544	20.515	ug/L	99
63) 1,4-Dichlorobenzene	11.86	146	1149517	20.860	ug/L	100
65) 1,2-Dichlorobenzene	12.23	146	1082846	20.177	ug/L	96
66) 1,2-Dibromo-3-chloropropan	13.02	75	71410	20.543	ug/L	89
67) 1,3,5-Trichlorobenzene	13.24	180	879974	23.675	ug/L	99
68) 1,2,4-trichlorobenzene	13.86	180	699767	33.808	ug/L	99
69) Naphthalene	14.10	128	1090433	48.164	ug/L	98
70) 1,2,3-Trichlorobenzene	14.35	180	657683	33.920	ug/L	100

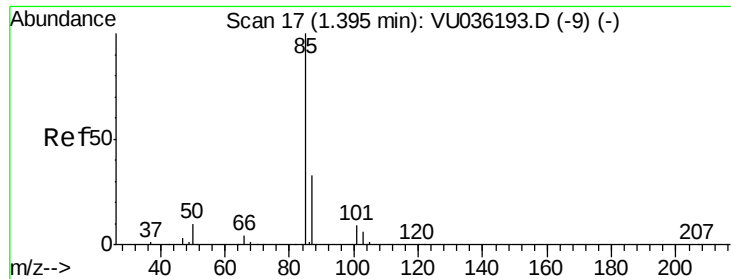
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 18.772 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU036195.D

Acq: 13 Dec 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

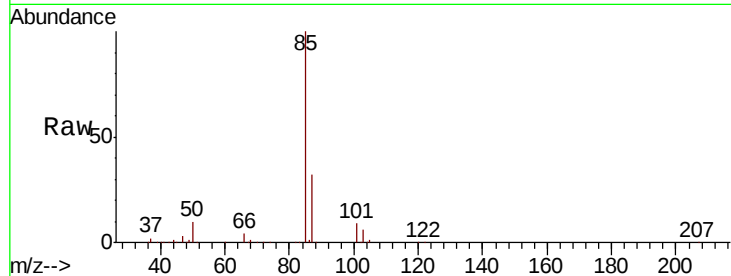
VSTD02005

Tot Ion: 85 Resp: 616101

Ion Ratio Lower Upper

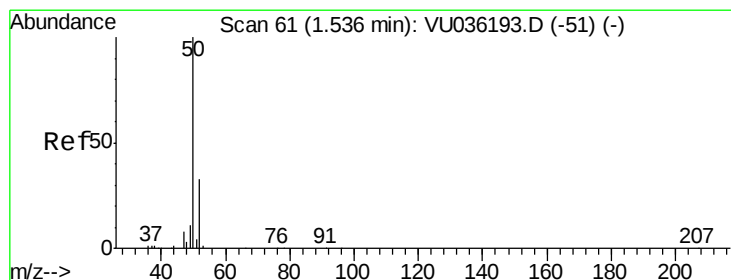
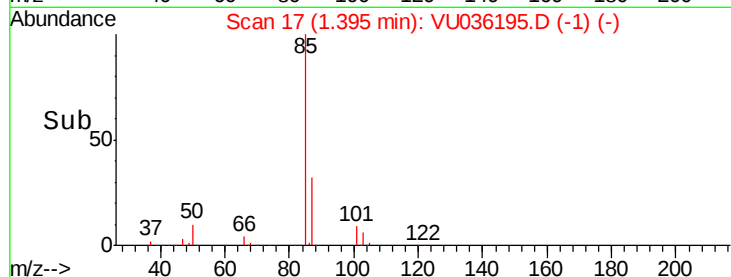
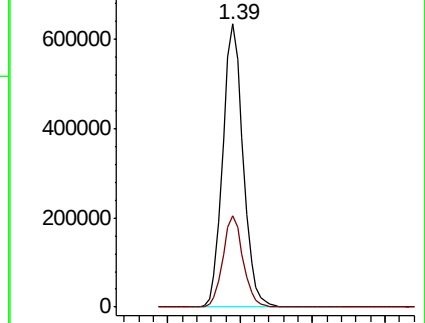
85 100

87 31.9 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VU036195.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU036195.D (-9) (-)



#3

Chloromethane

Concen: 17.326 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU036195.D

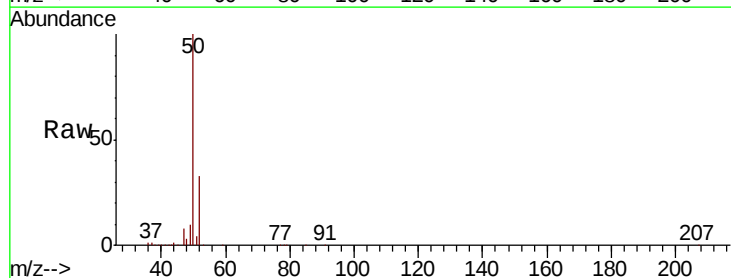
Acq: 13 Dec 2019 14:11

Tgt Ion: 50 Resp: 734369

Ion Ratio Lower Upper

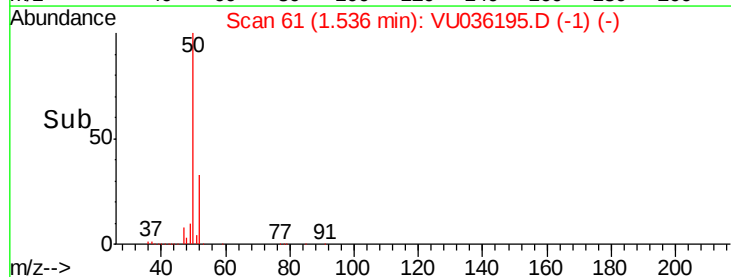
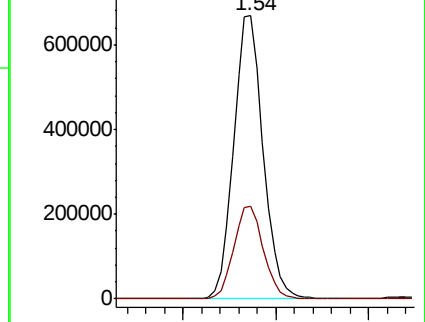
50 100

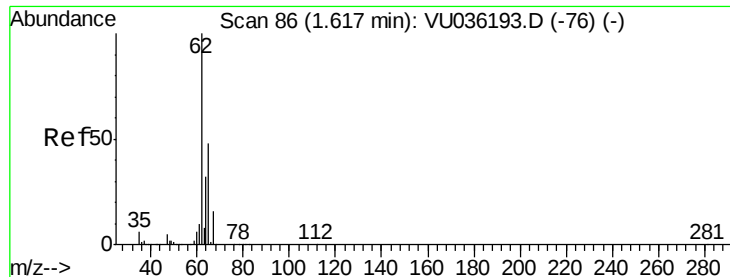
52 32.8 23.1 42.9



Abundance Ion 50.05 (49.75 to 50.75): VU036195.D (-51) (-)

Ion 52.05 (51.75 to 52.75): VU036195.D (-51) (-)





#5

Vinyl chloride

Concen: 19.319 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU036195.D

Acq: 13 Dec 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

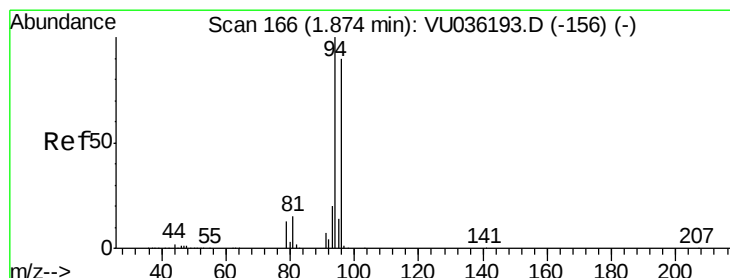
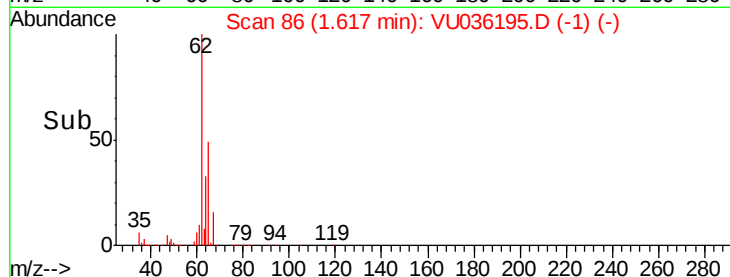
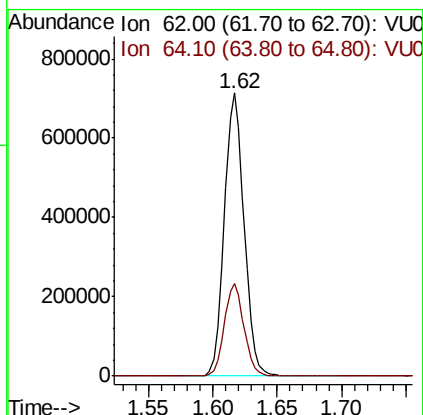
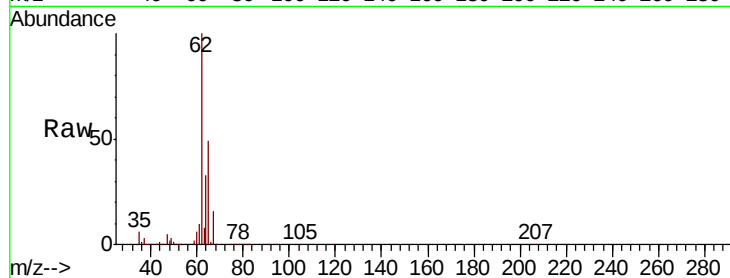
VSTD02005

Tot Ion: 62 Resp: 756487

Ion Ratio Lower Upper

62 100

64 32.7 22.4 41.6



#6

Bromomethane

Concen: 17.181 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU036195.D

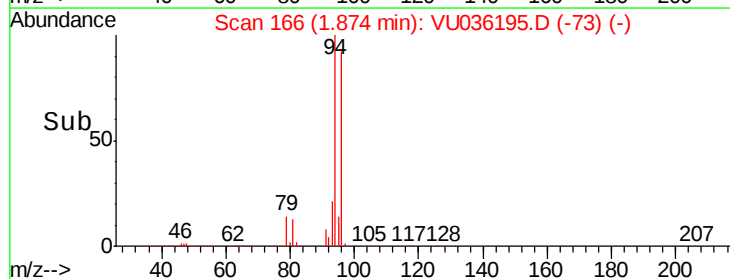
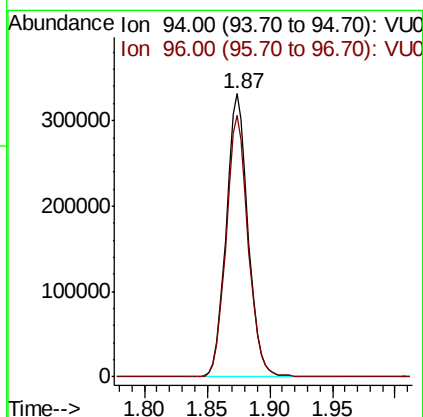
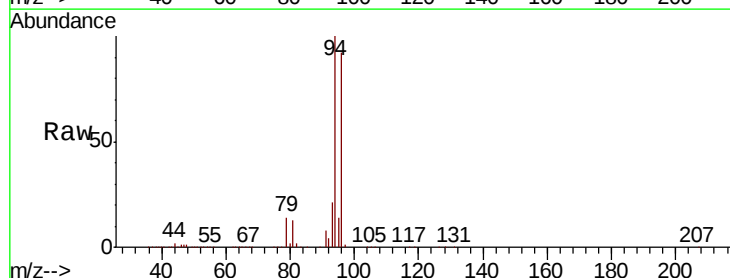
Acq: 13 Dec 2019 14:11

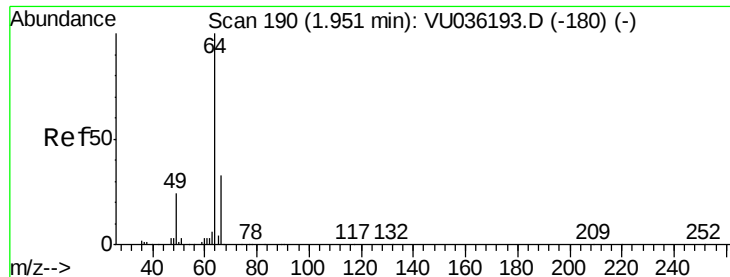
Tgt Ion: 94 Resp: 402717

Ion Ratio Lower Upper

94 100

96 92.2 62.9 116.9

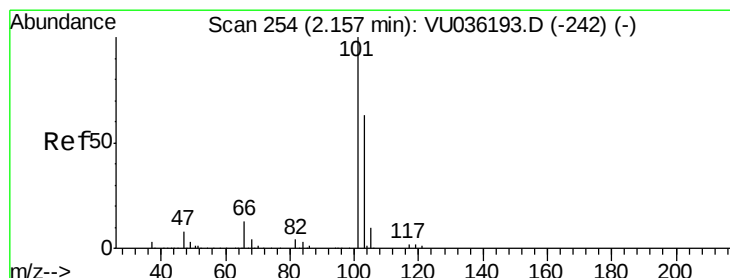
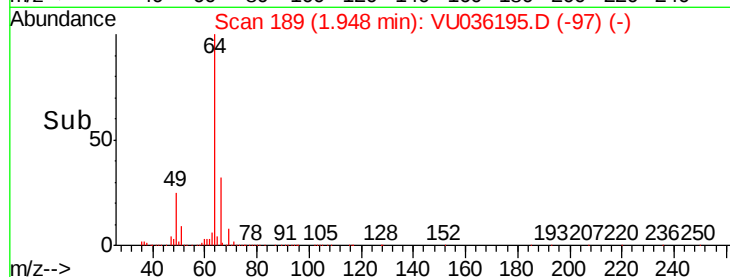
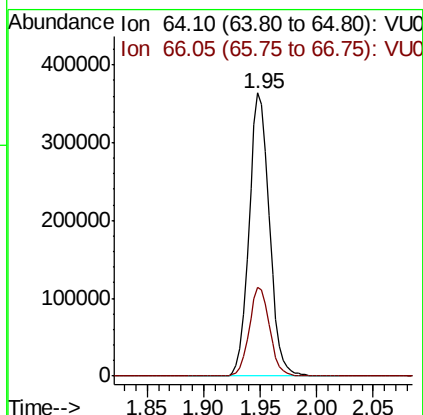
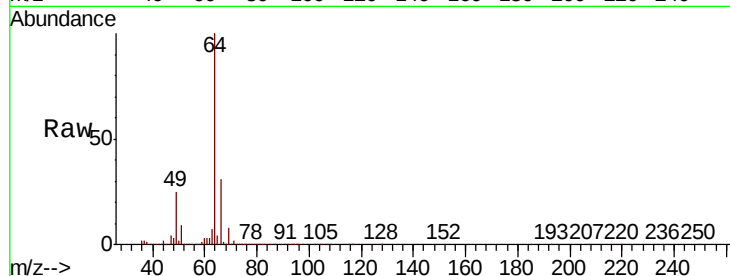




#8
Chloroethane
Concen: 19.071 ug/L
RT: 1.95 min Scan# 189
Delta R.T. -0.00 min
Lab File: VU036195.D
Acq: 13 Dec 2019 14:11

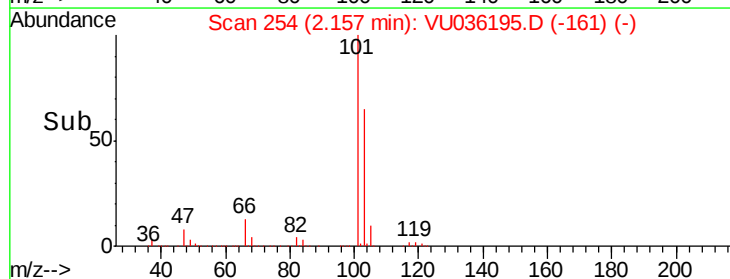
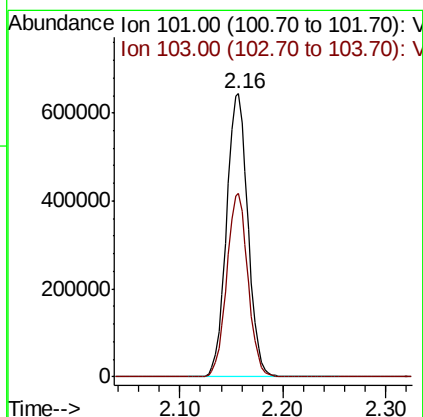
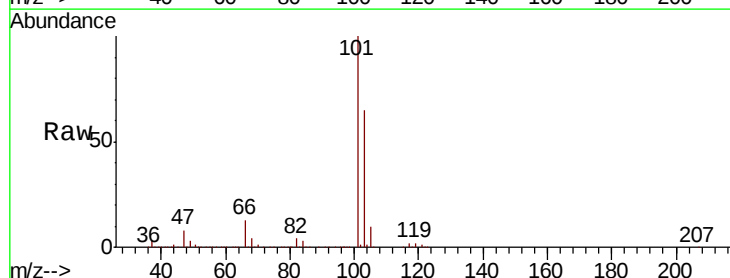
Instrument :
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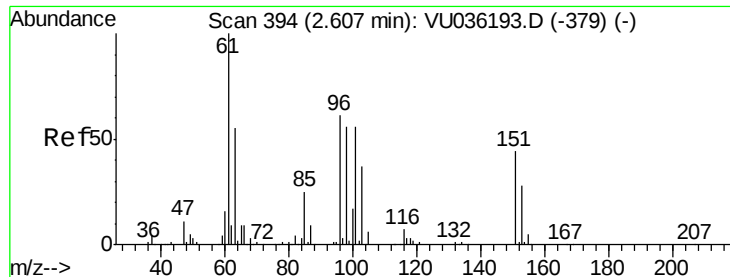
Tot Ion: 64 Resp: 455008
Ion Ratio Lower Upper
64 100
66 31.5 23.1 42.9



#9
Trichlorofluoromethane
Concen: 19.312 ug/L
RT: 2.16 min Scan# 254
Delta R.T. 0.00 min
Lab File: VU036195.D
Acq: 13 Dec 2019 14:11

Tgt Ion: 101 Resp: 930042
Ion Ratio Lower Upper
101 100
103 64.3 50.4 75.6





#10

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

Concen: 18.659 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU036195.D

Acq: 13 Dec 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD02005

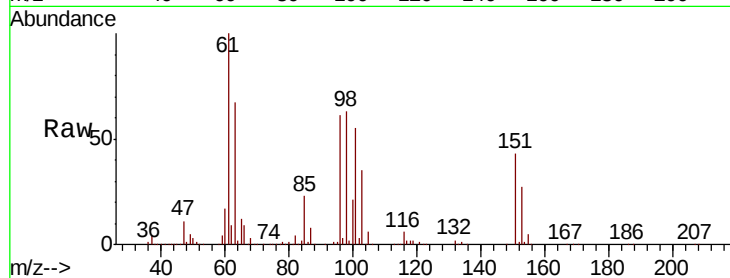
Tot Ion:101 Resp: 439346

Ion Ratio Lower Upper

101 100

85 42.9 35.0 52.6

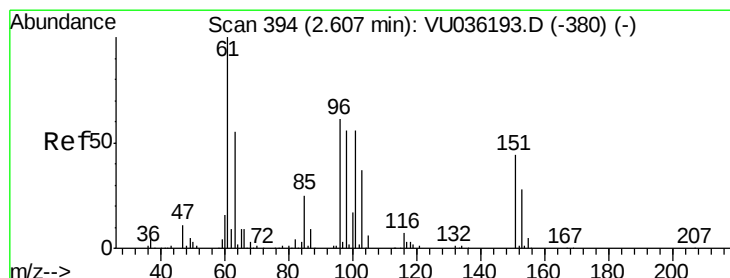
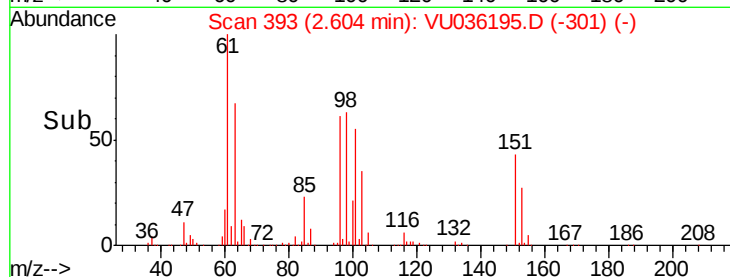
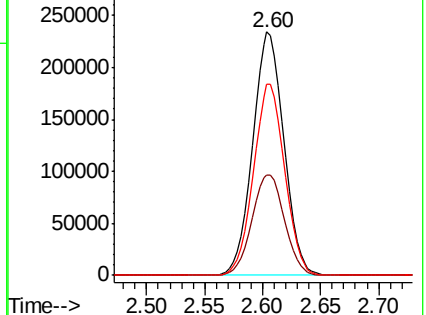
151 78.9 63.9 95.9



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: 19.099 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU036195.D

Acq: 13 Dec 2019 14:11

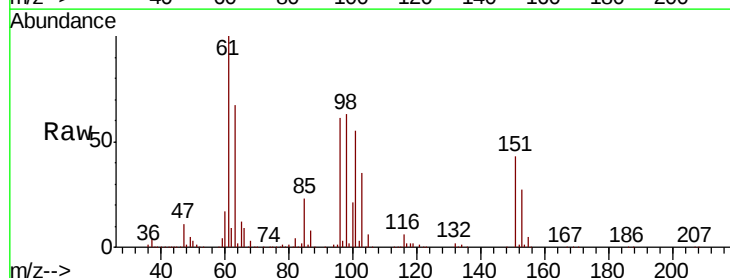
Tgt Ion: 96 Resp: 424554

Ion Ratio Lower Upper

96 100

61 162.7 114.0 211.8

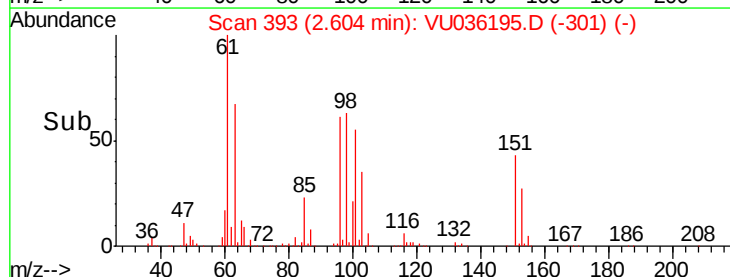
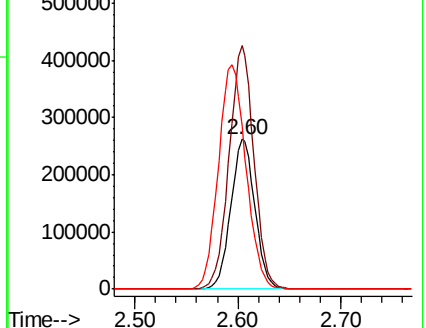
63 108.9 63.6 118.0

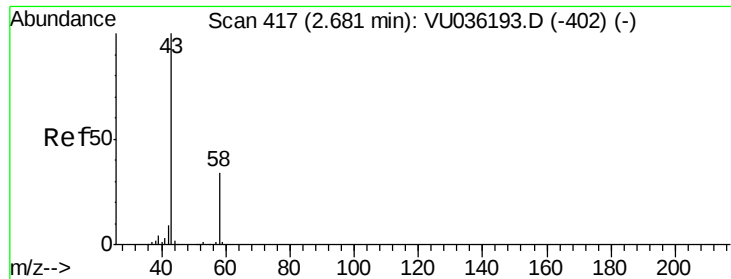


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 165.961 ug/L

RT: 2.68 min Scan# 416

Delta R.T. -0.00 min

Lab File: VU036195.D

Acq: 13 Dec 2019 14:11

Instrument :

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ClientSampleId :

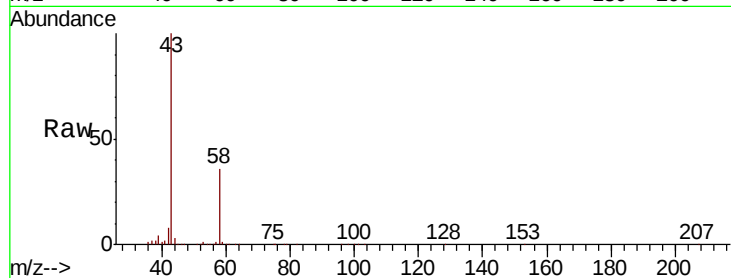
VSTD02005

Tot Ion: 43 Resp: 692677

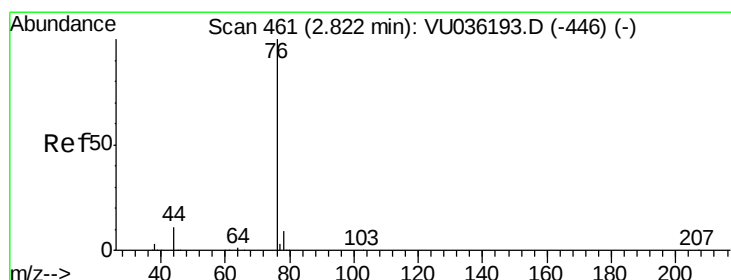
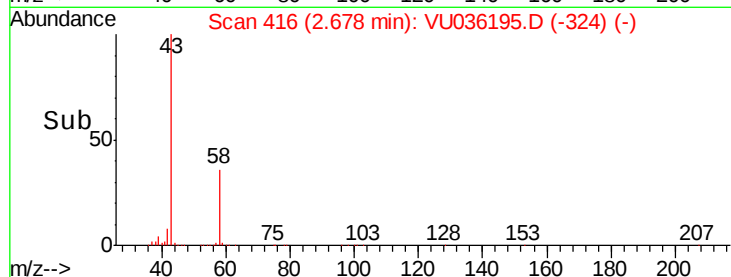
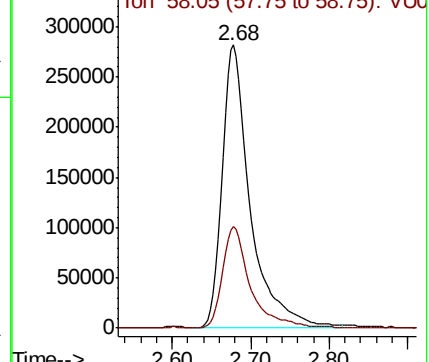
Ion Ratio Lower Upper

43 100

58 35.4 0.0 67.6



Abundance Ion 43.05 (42.75 to 43.75): VU036195.D (-402) (-)



#14

Carbon disulfide

Concen: 18.668 ug/L

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU036195.D

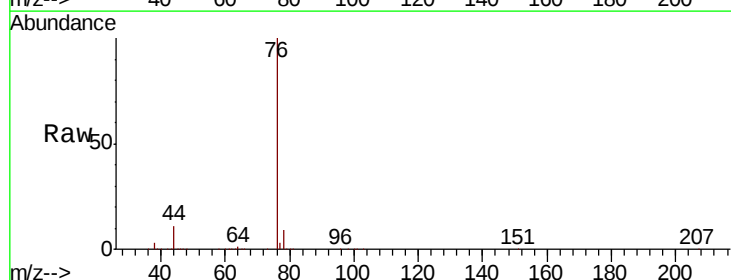
Acq: 13 Dec 2019 14:11

Tgt Ion: 76 Resp: 1374210

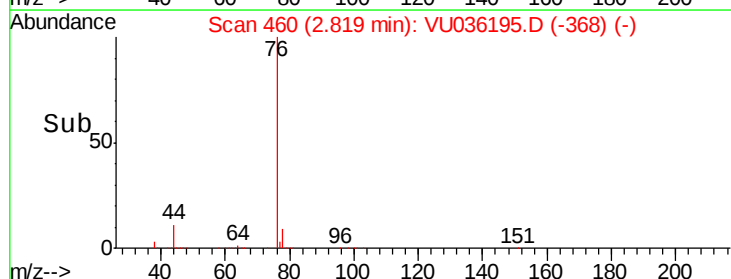
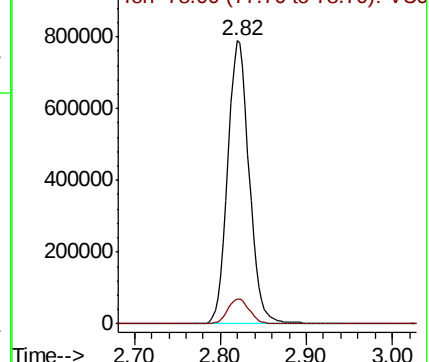
Ion Ratio Lower Upper

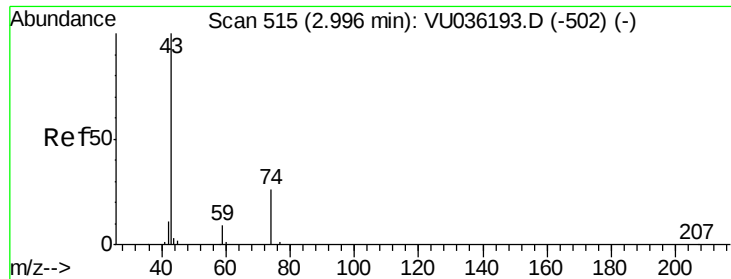
76 100

78 9.0 7.1 10.7



Abundance Ion 76.05 (75.75 to 76.75): VU036195.D (-446) (-)

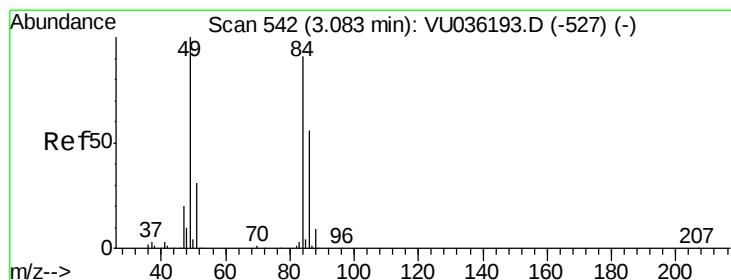
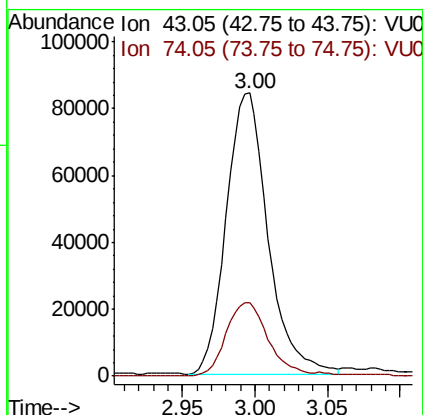
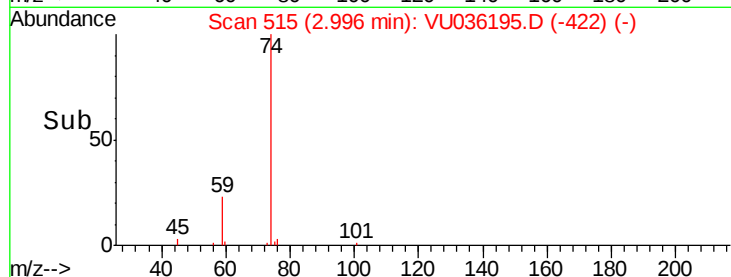
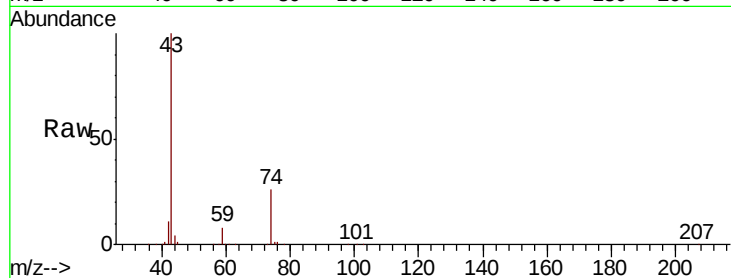




#15
Methvl Acetate
Concen: 18.709 ug/L
RT: 3.00 min Scan# 515
Delta R.T. 0.00 min
Lab File: VU036195.D
Acq: 13 Dec 2019 14:11

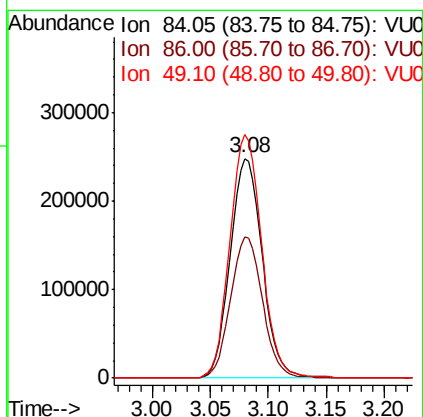
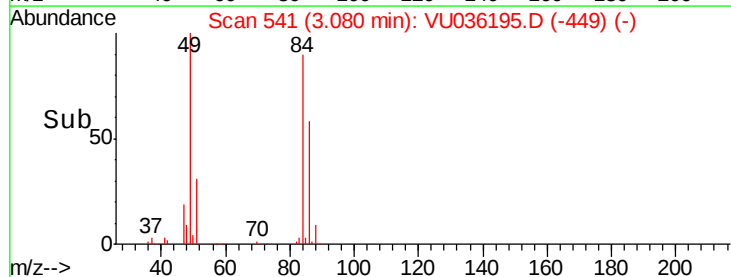
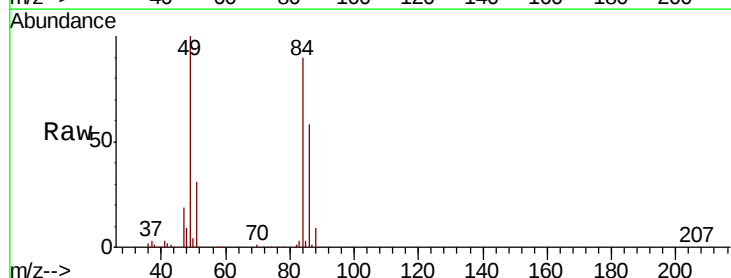
Instrument :
MSVOA_U
ClientSampleId :
VSTD02005

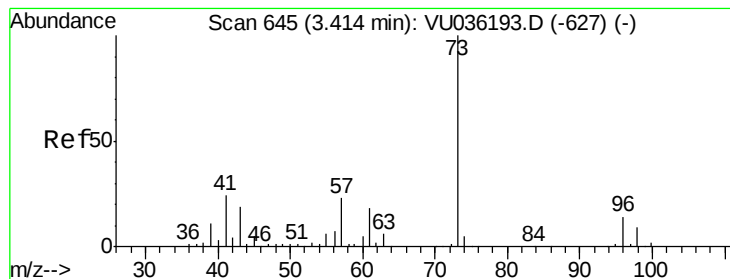
Tot Ion: 43 Resp: 167924
Ion Ratio Lower Upper
43 100
74 27.1 20.8 31.2



#16
Methylene chloride
Concen: 15.227 ug/L
RT: 3.08 min Scan# 541
Delta R.T. -0.00 min
Lab File: VU036195.D
Acq: 13 Dec 2019 14:11

Tgt Ion: 84 Resp: 474794
Ion Ratio Lower Upper
84 100
86 64.1 43.0 79.8
49 110.9 77.3 143.5



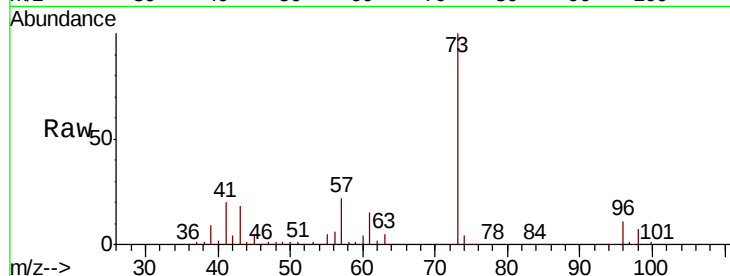


#17

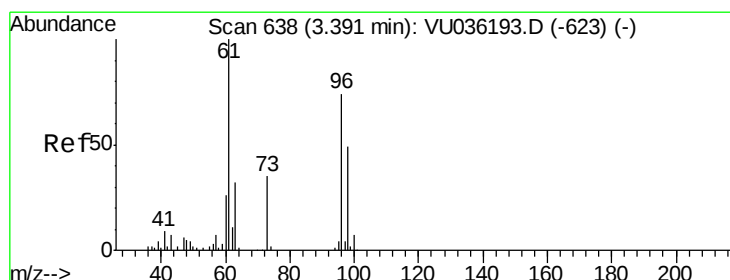
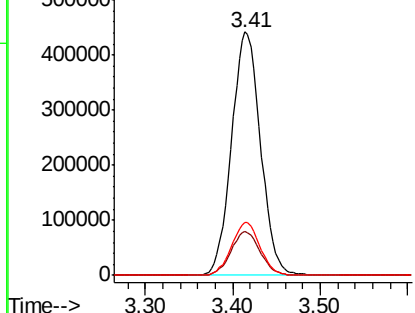
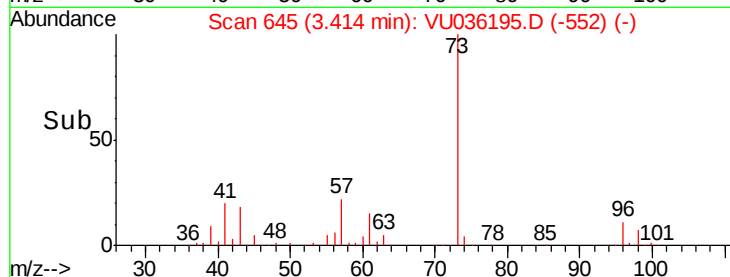
Methyl tert-butyl Ether
 Concen: 21.976 ug/L
 RT: 3.41 min Scan# 645
 Delta R.T. 0.00 min
 Lab File: VU036195.D
 Acq: 13 Dec 2019 14:11

Instrument :
 MSVOA_U
 ClientSampleID :
 VSTD02005

Tot Ion: 73 Resp: 1015845
 Ion Ratio Lower Upper
 73 100
 43 18.0 15.3 22.9
 57 21.5 18.2 27.2



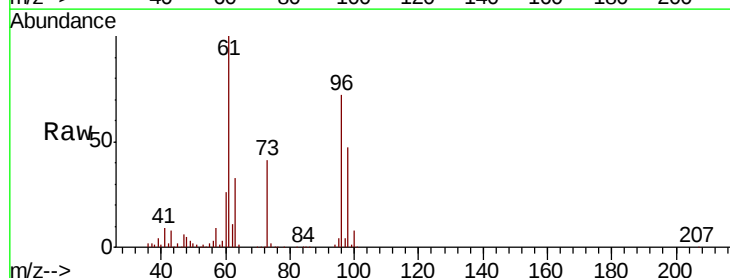
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



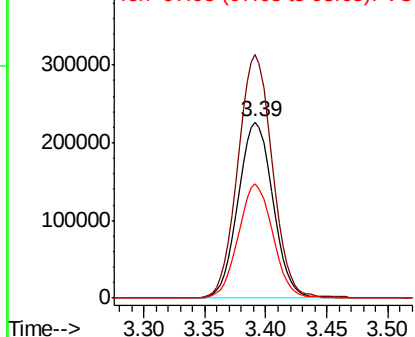
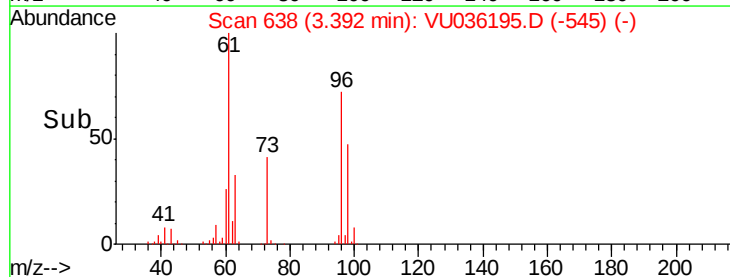
#18

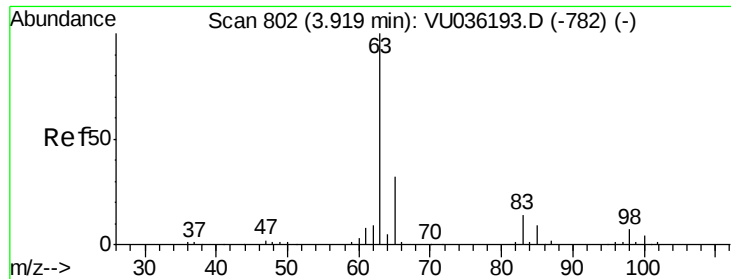
trans-1,2-Dichloroethene
 Concen: 19.408 ug/L
 RT: 3.39 min Scan# 638
 Delta R.T. 0.00 min
 Lab File: VU036195.D
 Acq: 13 Dec 2019 14:11

Tgt Ion: 96 Resp: 447917
 Ion Ratio Lower Upper
 96 100
 61 138.4 94.8 176.2
 98 65.0 46.8 86.8



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

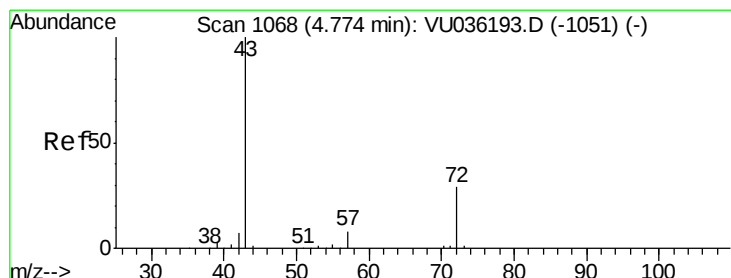
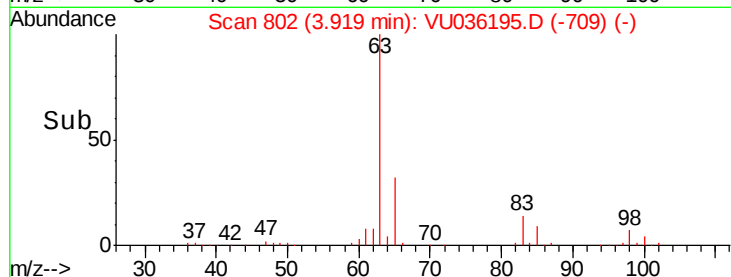
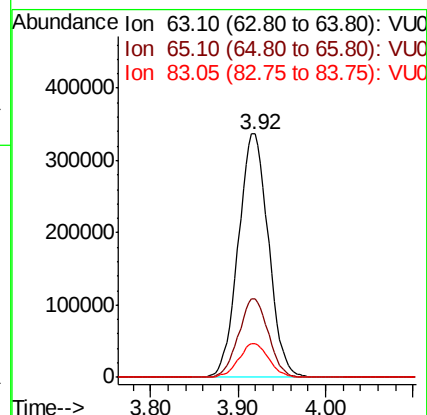
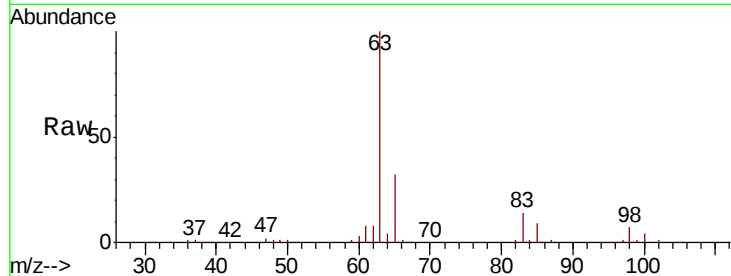




#19
 1,1-Dichloroethane
 Concen: 18.959 ug/L
 RT: 3.92 min Scan# 802
 Delta R.T. 0.00 min
 Lab File: VU036195.D
 Acq: 13 Dec 2019 14:11

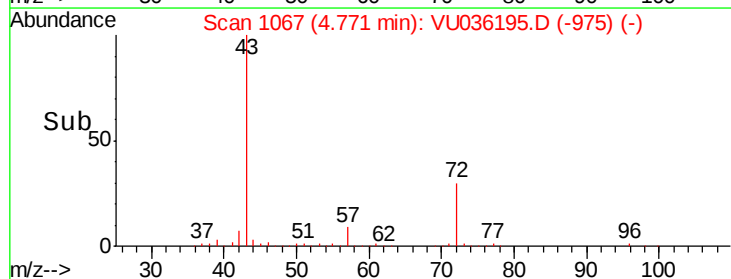
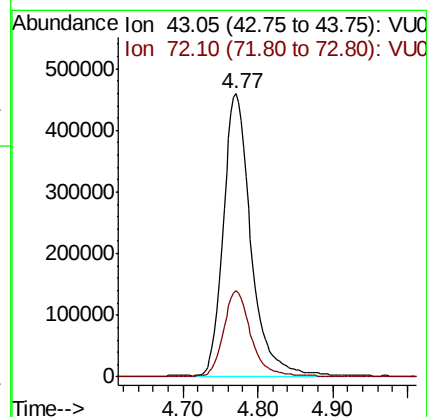
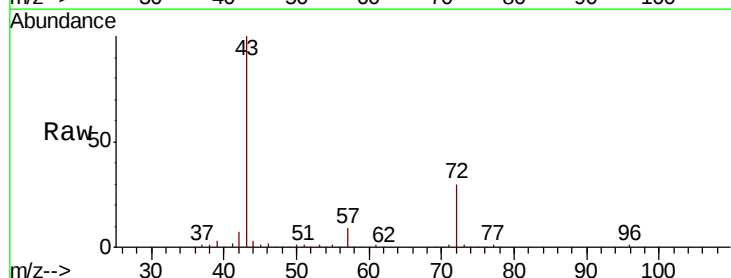
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02005

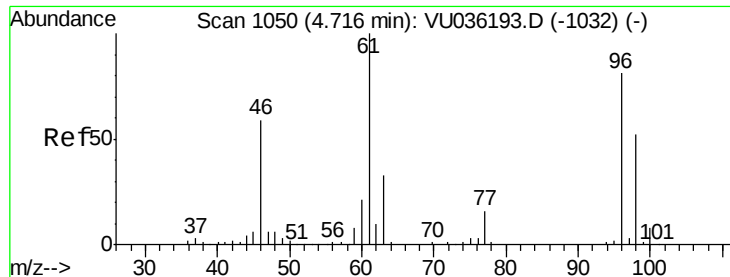
Tot Ion: 63 Resp: 804205
 Ion Ratio Lower Upper
 63 100
 65 32.1 22.6 42.0
 83 14.0 9.7 18.1



#21
 2-Butanone
 Concen: 210.062 ug/L
 RT: 4.77 min Scan# 1067
 Delta R.T. -0.00 min
 Lab File: VU036195.D
 Acq: 13 Dec 2019 14:11

Tgt Ion: 43 Resp: 1165762
 Ion Ratio Lower Upper
 43 100
 72 30.6 14.4 43.4





#22

cis-1,2-Dichloroethene

Concen: 21.275 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VU036195.D

Acq: 13 Dec 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD02005

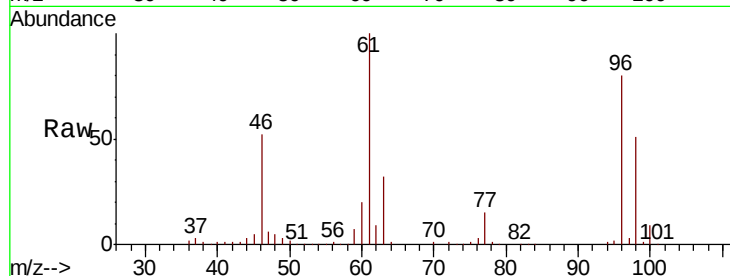
Tot Ion: 96 Resp: 504736

Ion Ratio Lower Upper

96 100

61 125.2 86.7 161.1

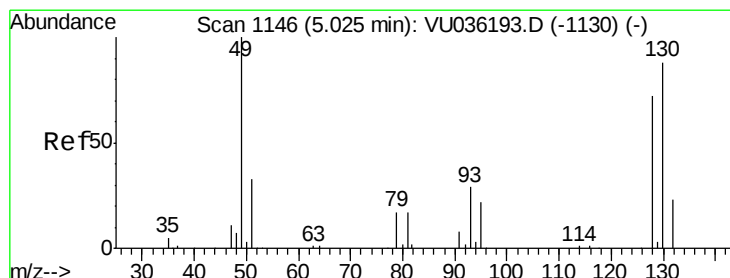
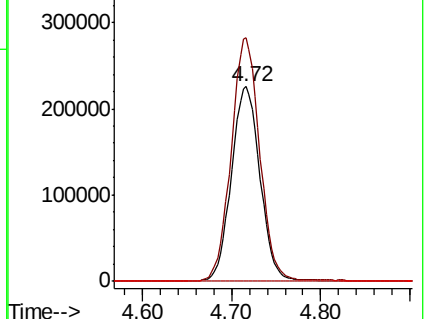
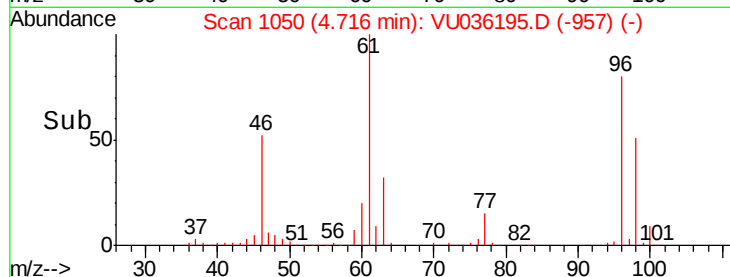
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU036195.D (-957) (-)

Ion 61.05 (60.75 to 61.75): VU036195.D (-957) (-)

Ion 68.15 (67.85 to 68.85): VU036195.D (-957) (-)



#23

Bromochloromethane

Concen: 19.281 ug/L

RT: 5.02 min Scan# 1146

Delta R.T. 0.00 min

Lab File: VU036195.D

Acq: 13 Dec 2019 14:11

Tgt Ion:128 Resp: 227666

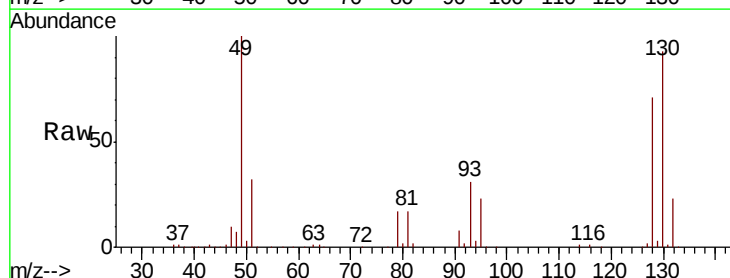
Ion Ratio Lower Upper

128 100

49 140.6 97.6 181.4

130 130.2 85.9 159.5

51 45.5 37.0 55.4

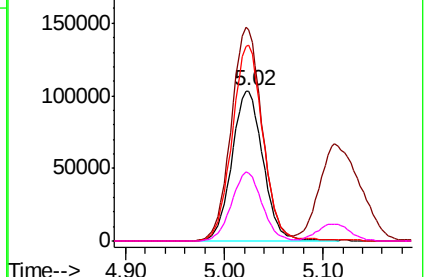
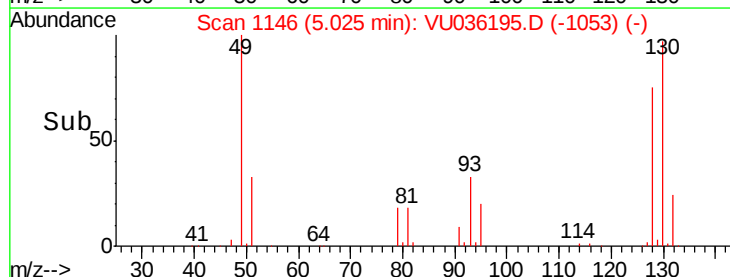


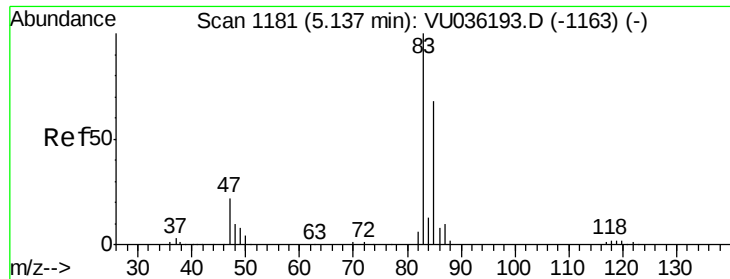
Abundance Ion 127.90 (127.60 to 128.60): VU036195.D (-1053) (-)

Ion 49.10 (48.80 to 49.80): VU036195.D (-1053) (-)

Ion 129.95 (129.65 to 130.65): VU036195.D (-1053) (-)

Ion 51.05 (50.75 to 51.75): VU036195.D (-1053) (-)

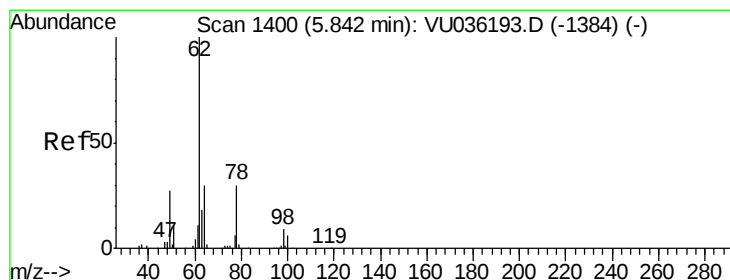
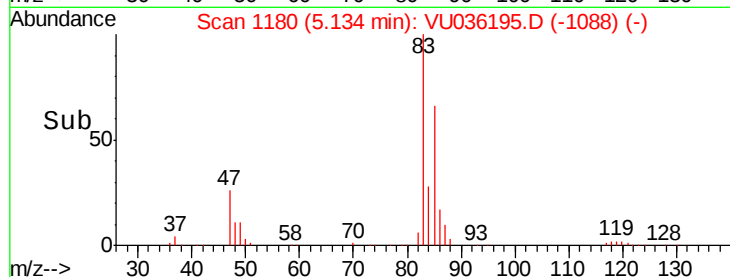
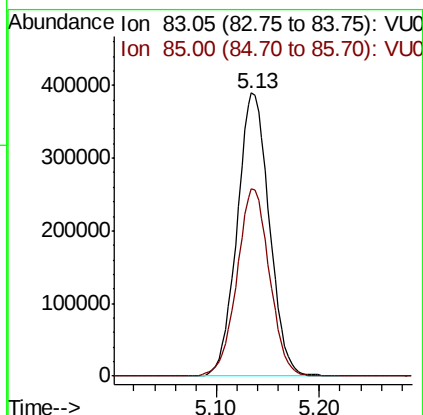
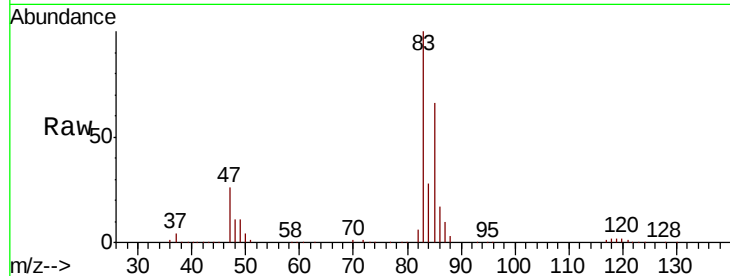




#25
Chloroform
Concen: 18.870 ug/L
RT: 5.13 min Scan# 1180
Delta R.T. -0.00 min
Lab File: VU036195.D
Acq: 13 Dec 2019 14:11

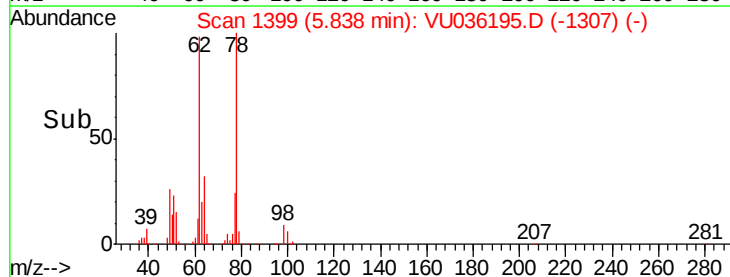
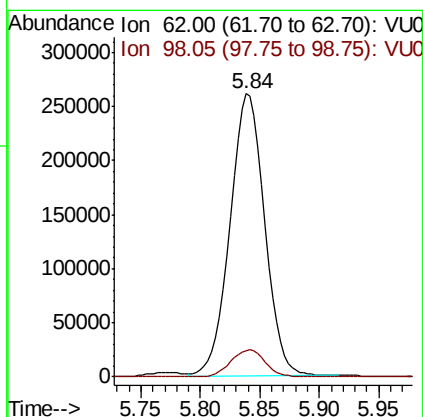
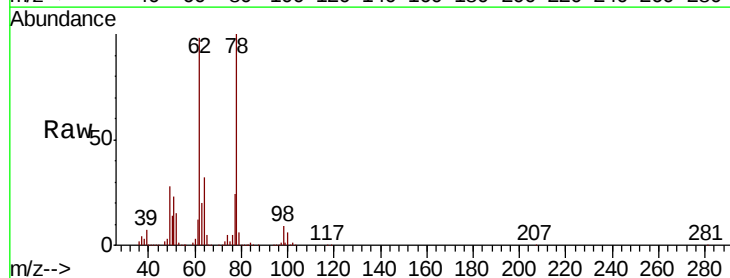
Instrument :
MSVOA_U
ClientSampleId :
VSTD02005

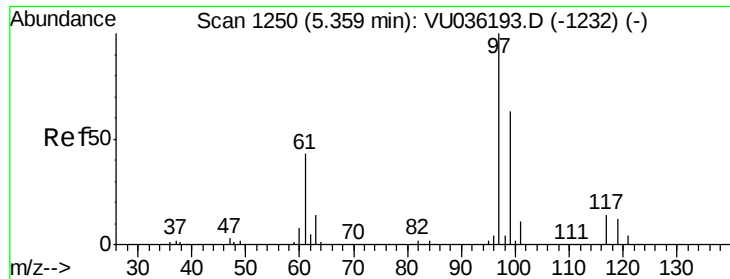
Tot Ion: 83 Resp: 844881
Ion Ratio Lower Upper
83 100
85 66.4 47.5 88.1



#27
1,2-Dichloroethane
Concen: 19.990 ug/L
RT: 5.84 min Scan# 1399
Delta R.T. -0.00 min
Lab File: VU036195.D
Acq: 13 Dec 2019 14:11

Tgt Ion: 62 Resp: 526782
Ion Ratio Lower Upper
62 100
98 9.4 7.3 10.9

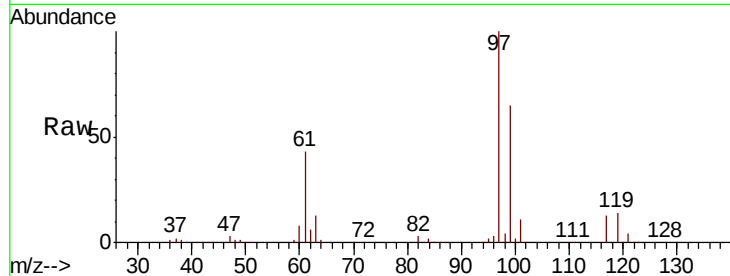




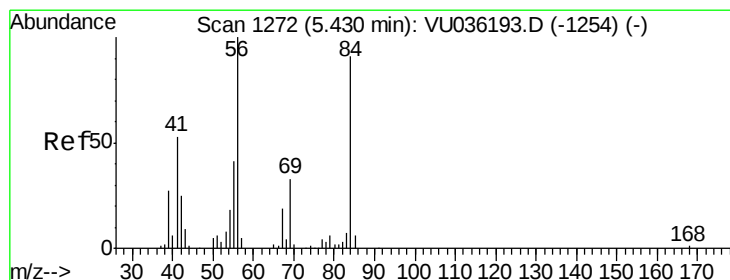
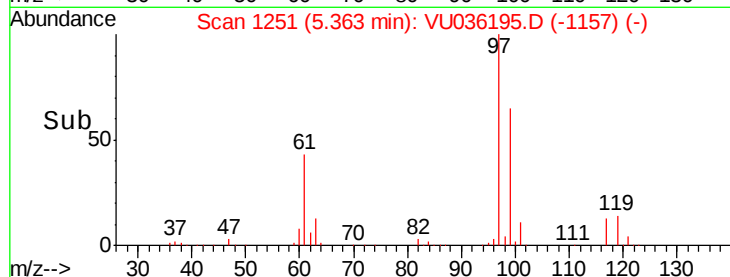
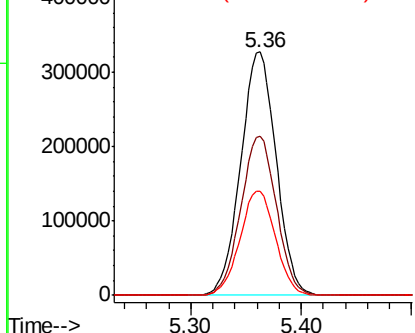
#29
 1,1,1-Trichloroethane
 Concen: 19.701 ug/L
 RT: 5.36 min Scan# 1251
 Delta R.T. 0.00 min
 Lab File: VU036195.D
 Acq: 13 Dec 2019 14:11

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02005

Tot Ion	Ratio	Lower	Upper
97	100		
99	65.7	51.4	77.2
61	43.0	35.0	52.6

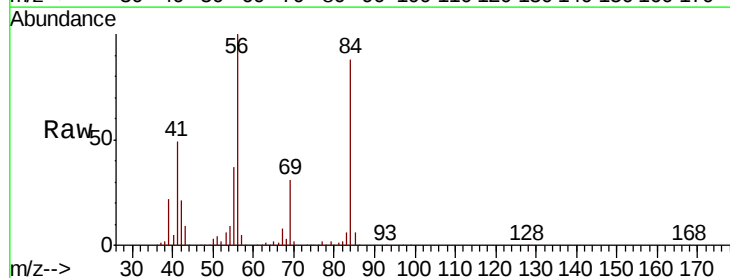


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

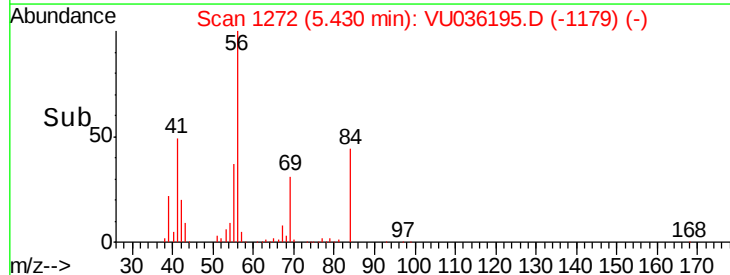
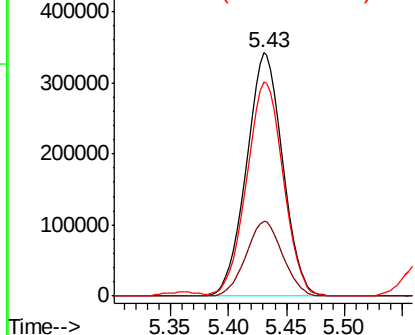


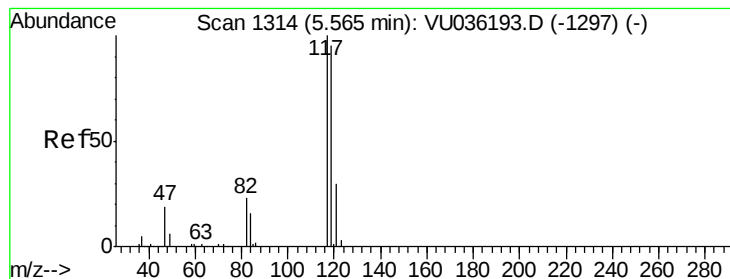
#30
 Cyclohexane
 Concen: 23.703 ug/L
 RT: 5.43 min Scan# 1272
 Delta R.T. 0.00 min
 Lab File: VU036195.D
 Acq: 13 Dec 2019 14:11

Tgt Ion	Ratio	Lower	Upper
56	100		
69	31.2	25.6	38.4
84	89.1	73.0	109.4



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: 20.149 ug/L

RT: 5.57 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VU036195.D

Acq: 13 Dec 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

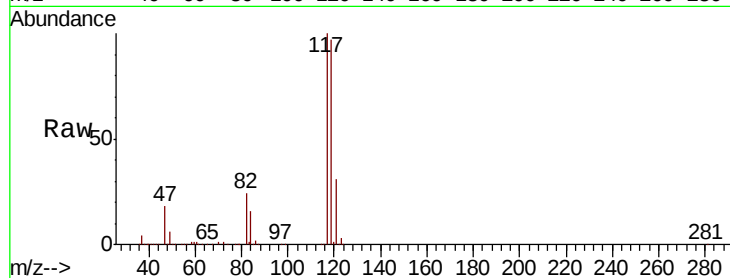
VSTD02005

Tot Ion:117 Resp: 666409

Ion Ratio Lower Upper

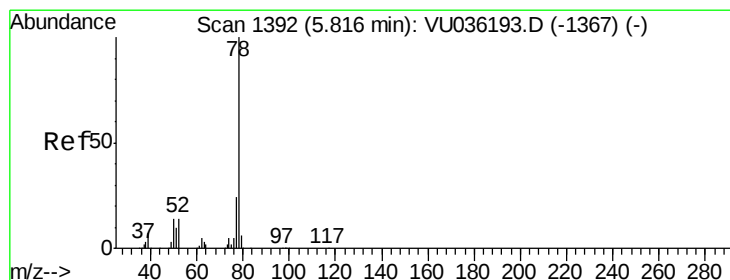
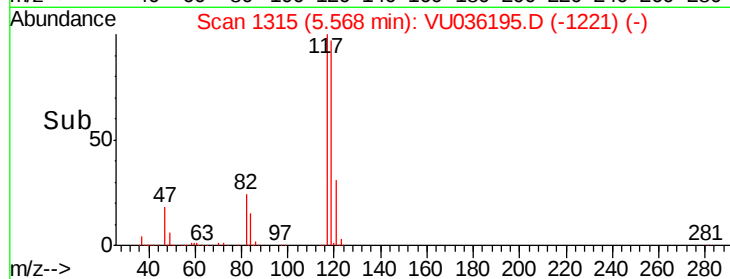
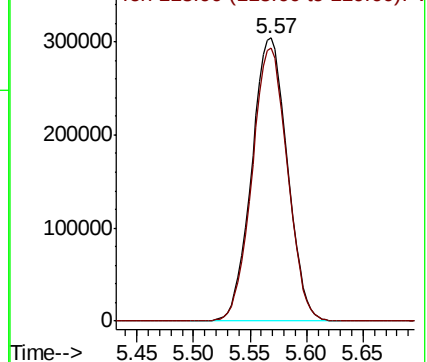
117 100

119 95.8 77.2 115.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 20.791 ug/L

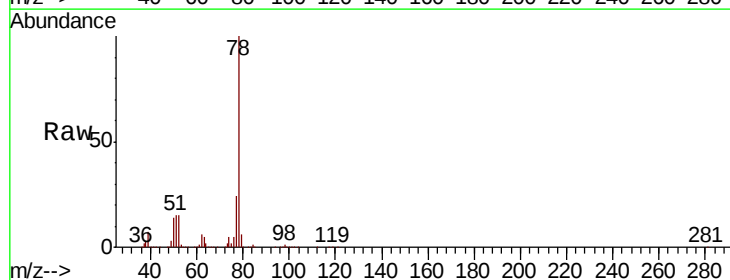
RT: 5.82 min Scan# 1392

Delta R.T. 0.00 min

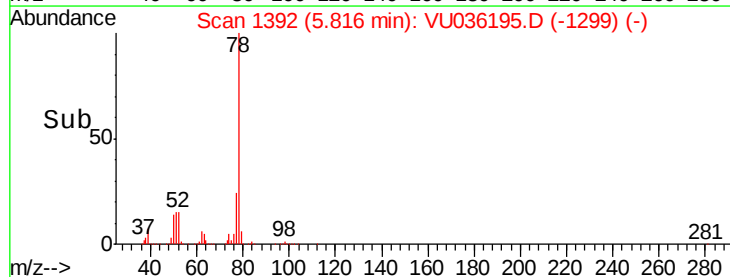
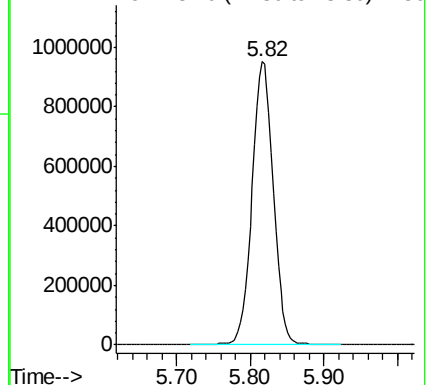
Lab File: VU036195.D

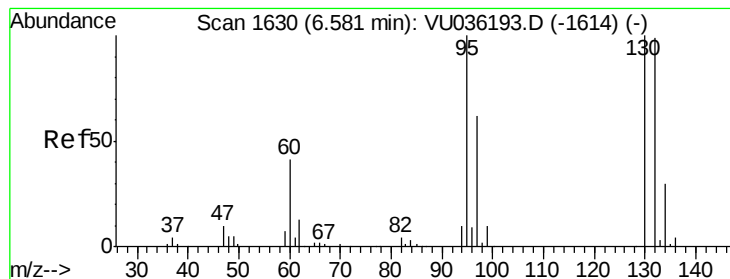
Acq: 13 Dec 2019 14:11

Tgt Ion: 78 Resp: 1923130



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 20.567 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU036195.D

Acq: 13 Dec 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD02005

Tot Ion: 95 Resp: 488851

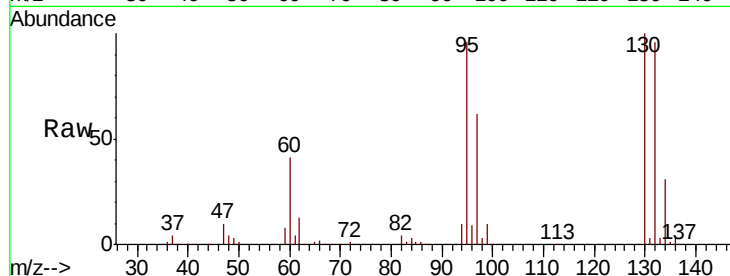
Ion Ratio Lower Upper

95 100

97 64.3 43.6 81.0

132 100.5 69.6 129.2

130 104.4 70.3 130.7

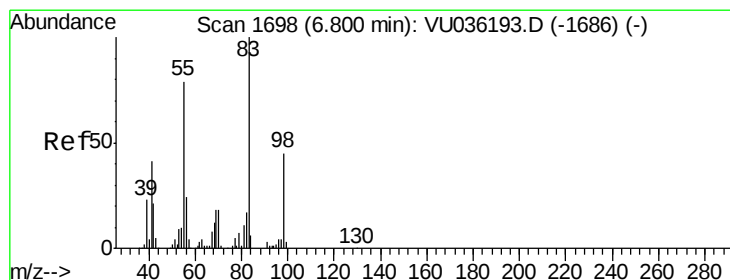
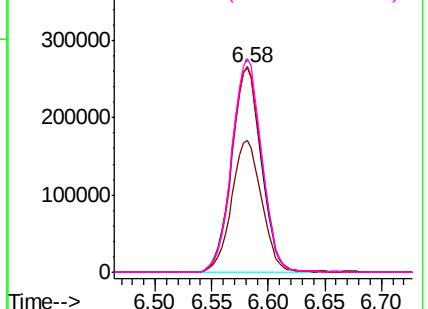
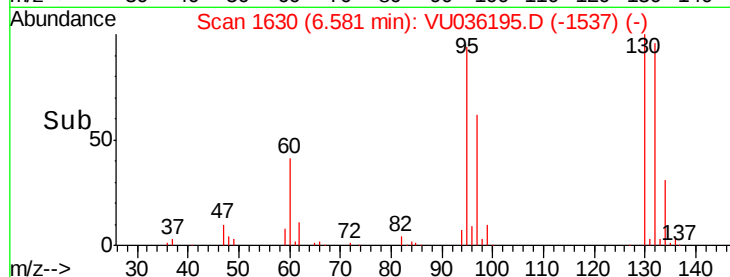


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 24.444 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VU036195.D

Acq: 13 Dec 2019 14:11

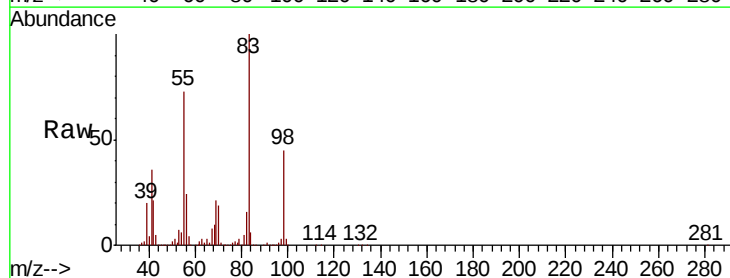
Tgt Ion: 83 Resp: 825564

Ion Ratio Lower Upper

83 100

55 74.6 62.6 94.0

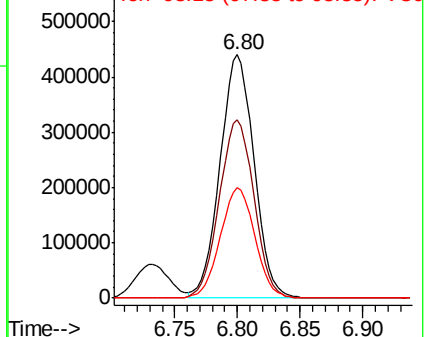
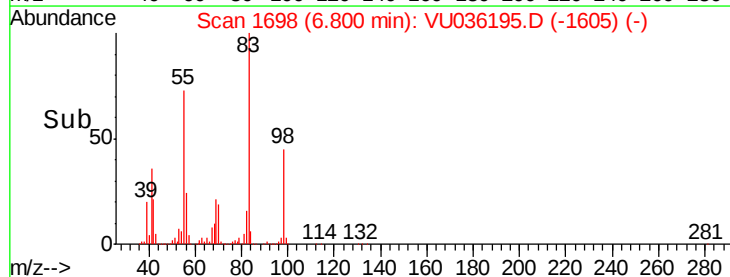
98 46.3 36.2 54.2

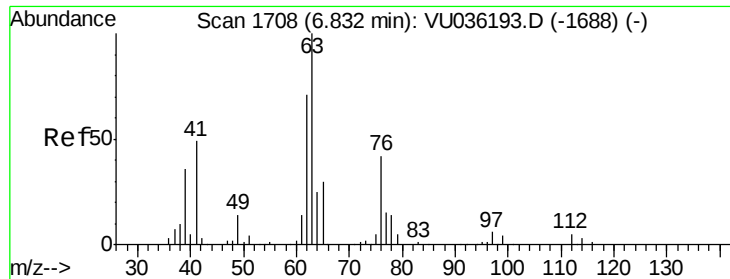


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

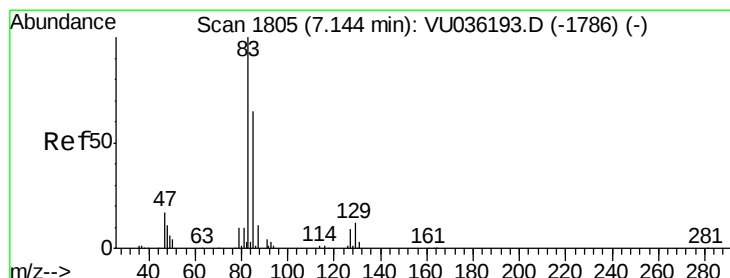
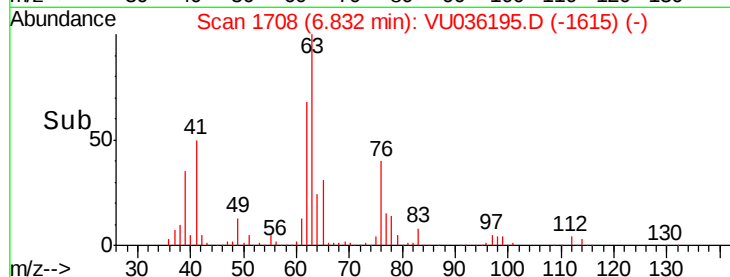
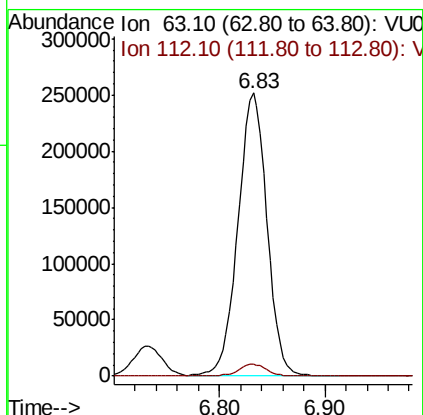
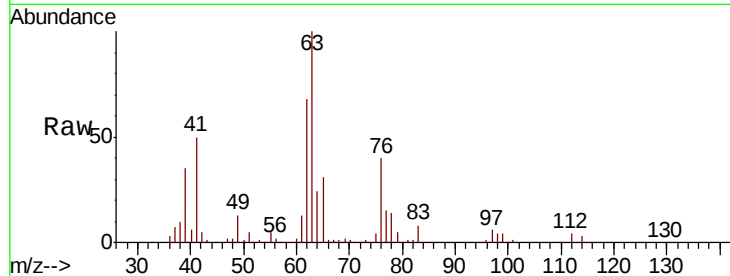




#37
 1,2-Dichloropropane
 Concen: 20.137 ug/L
 RT: 6.83 min Scan# 1708
 Delta R.T. 0.00 min
 Lab File: VU036195.D
 Acq: 13 Dec 2019 14:11

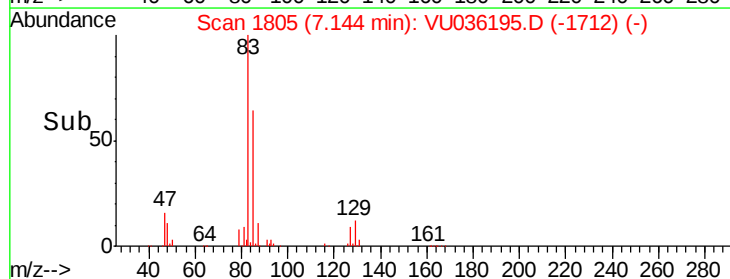
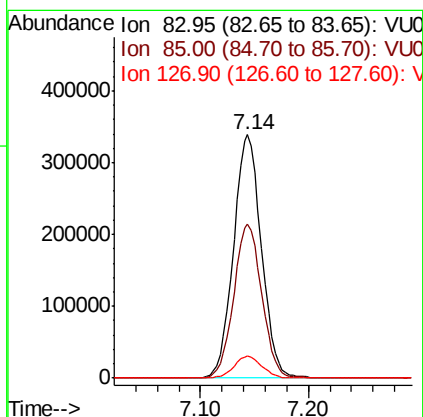
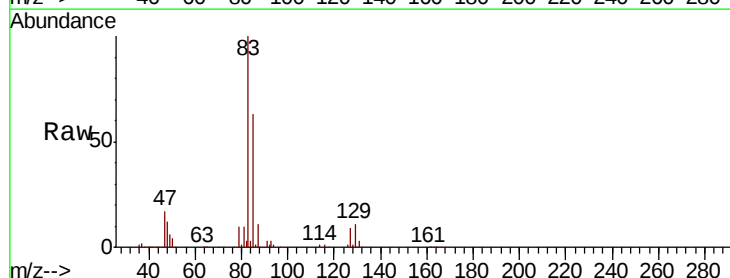
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02005

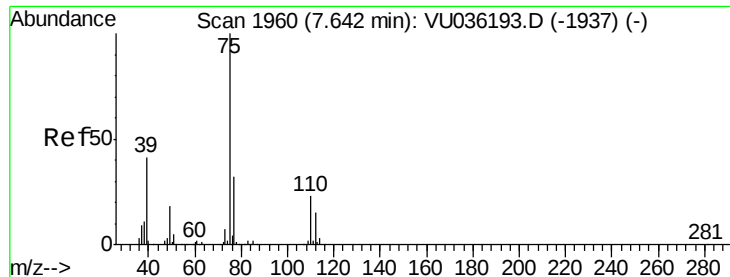
Tot Ion: 63 Resp: 478271
 Ion Ratio Lower Upper
 63 100
 112 4.2 3.8 5.8



#38
 Bromodichloromethane
 Concen: 19.962 ug/L
 RT: 7.14 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VU036195.D
 Acq: 13 Dec 2019 14:11

Tgt Ion: 83 Resp: 609478
 Ion Ratio Lower Upper
 83 100
 85 63.3 45.6 84.6
 127 8.9 7.1 10.7

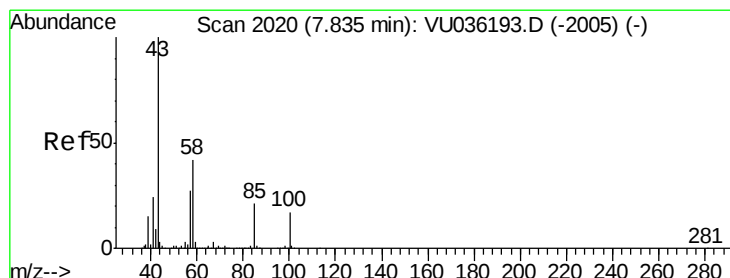
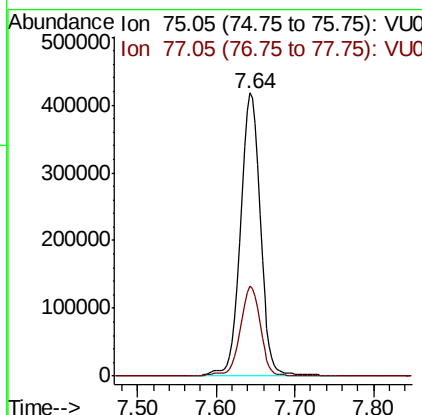
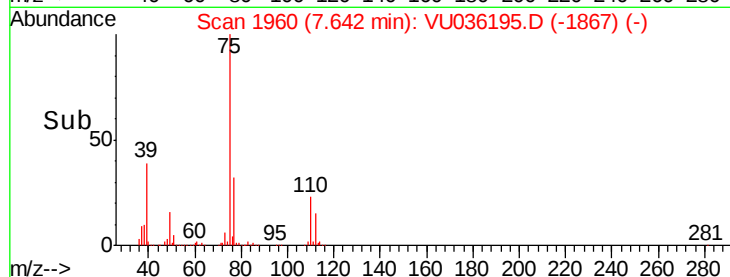
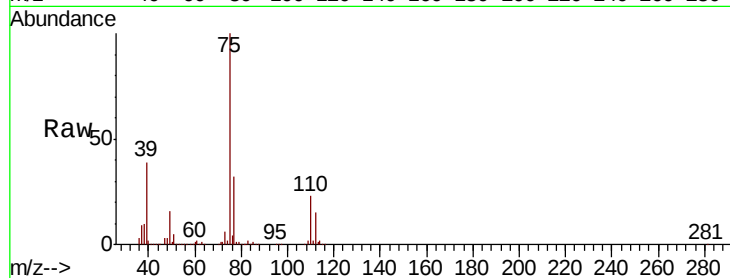




#39
 cis-1,3-Dichloropropene
 Concen: 23.461 ug/L
 RT: 7.64 min Scan# 1960
 Delta R.T. 0.00 min
 Lab File: VU036195.D
 Acq: 13 Dec 2019 14:11

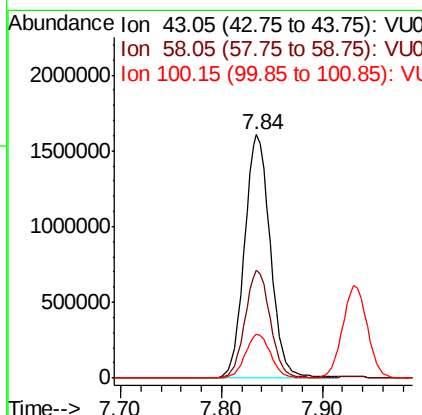
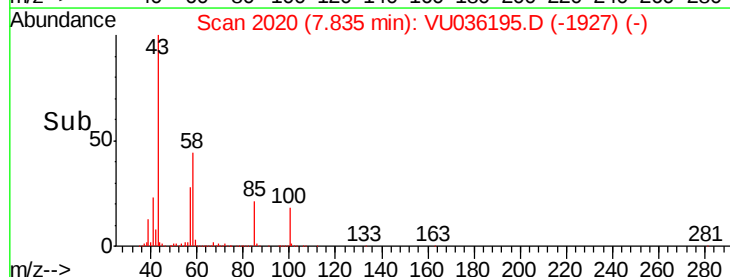
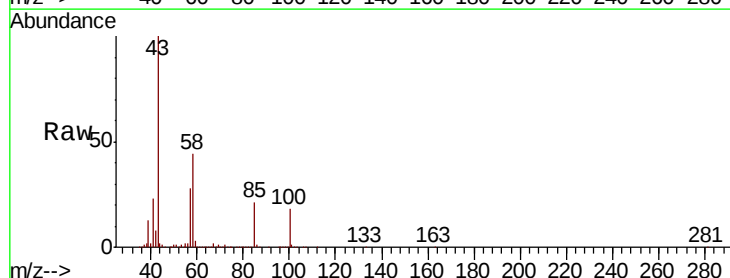
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02005

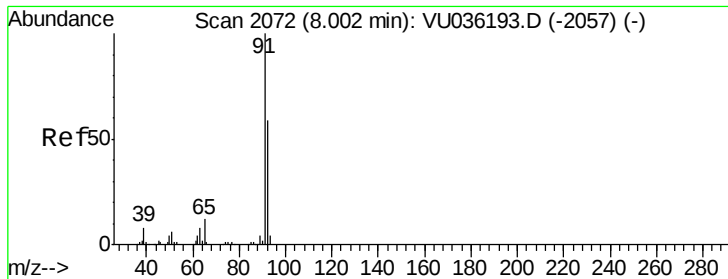
Tot Ion: 75 Resp: 742700
 Ion Ratio Lower Upper
 75 100
 77 31.7 22.7 42.1



#40
 4-Methyl-2-pentanone
 Concen: 232.980 ug/L
 RT: 7.84 min Scan# 2020
 Delta R.T. 0.00 min
 Lab File: VU036195.D
 Acq: 13 Dec 2019 14:11

Tgt Ion: 43 Resp: 2820559
 Ion Ratio Lower Upper
 43 100
 58 43.6 33.3 49.9
 100 17.8 13.7 20.5





#42

Toluene

Concen: 22.052 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU036195.D

Acq: 13 Dec 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

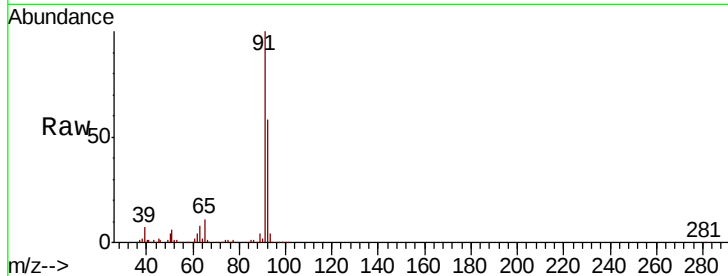
VSTD02005

Tot Ion: 91 Resp: 2154731

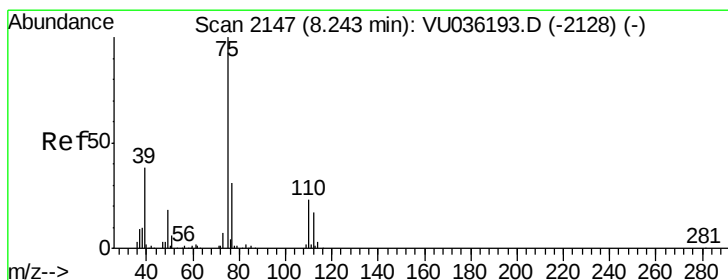
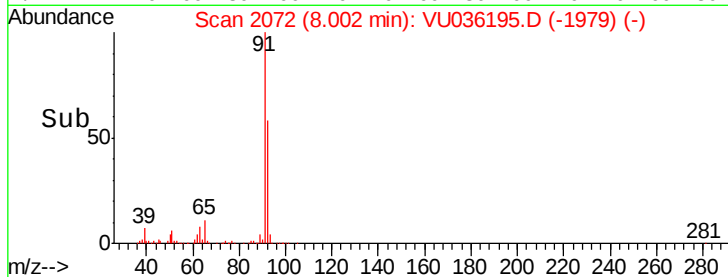
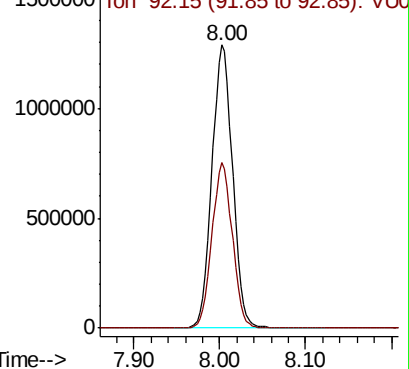
Ion Ratio Lower Upper

91 100

92 58.4 41.2 76.6



Abundance Ion 91.15 (90.85 to 91.85): VU036195.D (-1979) (-)



#44

trans-1,3-Dichloropropene

Concen: 22.668 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VU036195.D

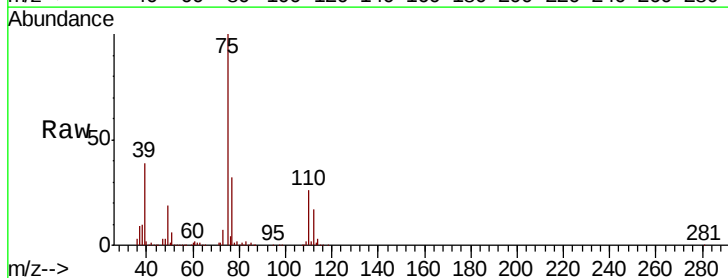
Acq: 13 Dec 2019 14:11

Tgt Ion: 75 Resp: 605140

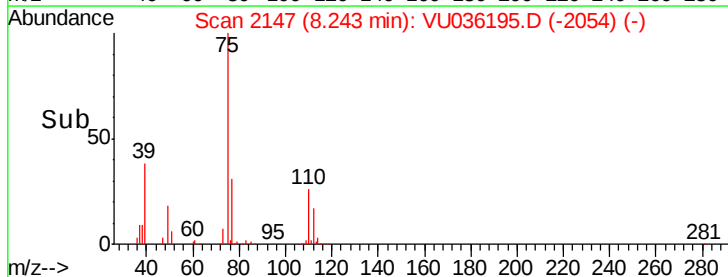
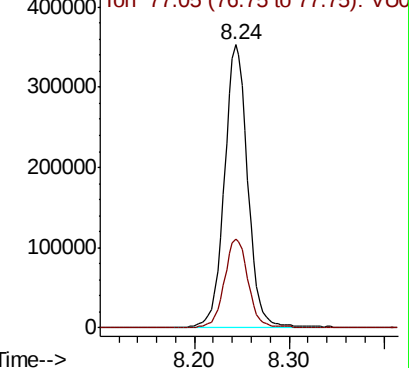
Ion Ratio Lower Upper

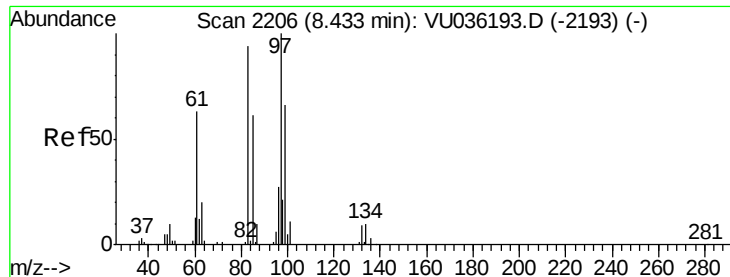
75 100

77 31.6 22.1 41.1



Abundance Ion 75.05 (74.75 to 75.75): VU036195.D (-2054) (-)

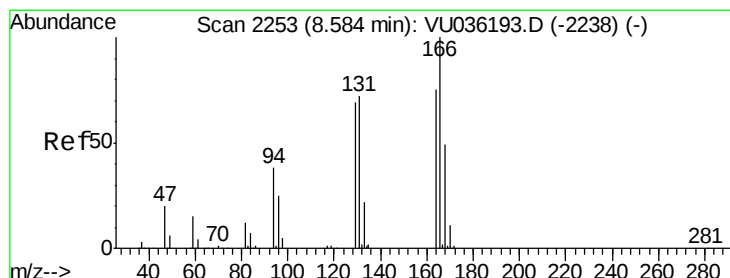
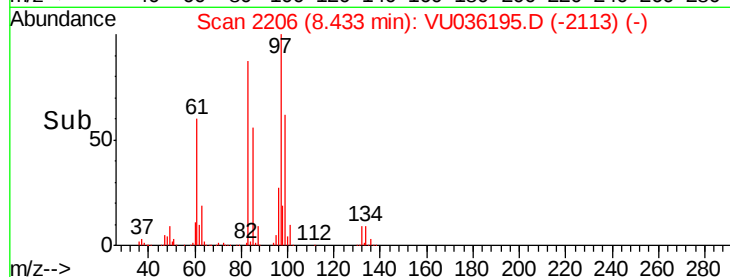
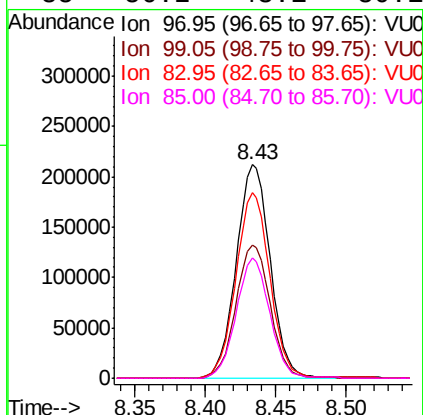
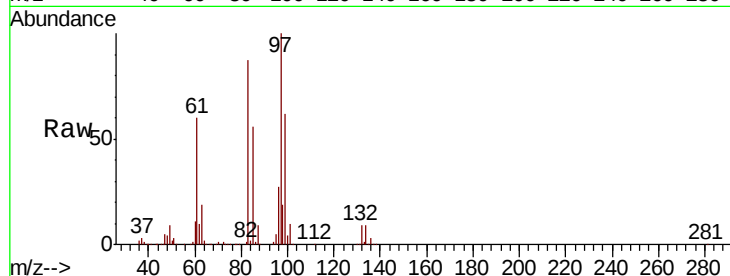




#45
 1,1,2-Trichloroethane
 Concen: 20.493 ug/L
 RT: 8.43 min Scan# 2206
 Delta R.T. 0.00 min
 Lab File: VU036195.D
 Acq: 13 Dec 2019 14:11

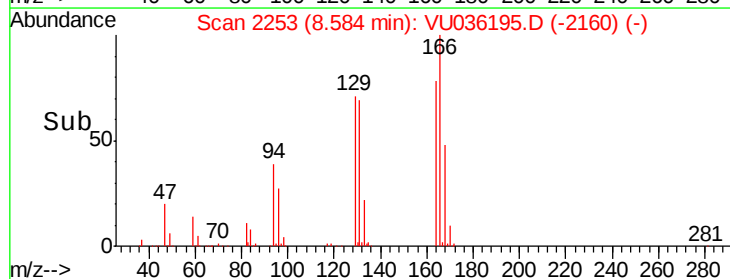
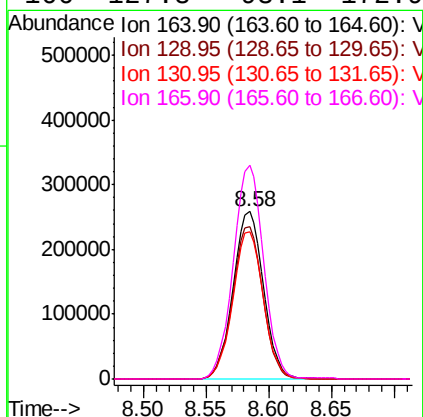
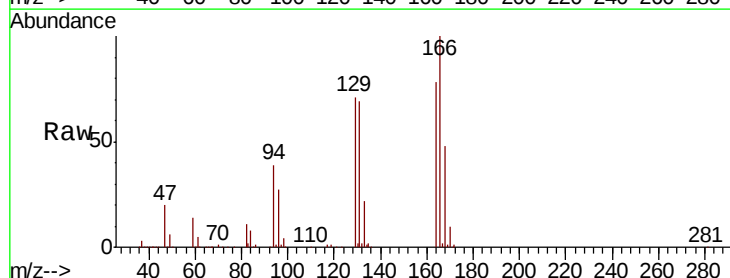
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02005

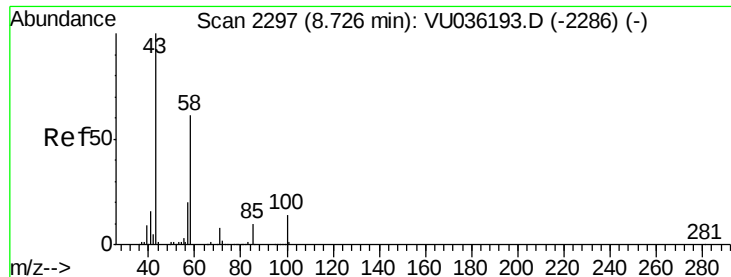
Tot Ion:	97	Resp:	358866
Ion	Ratio	Lower	Upper
97	100		
99	62.1	46.1	85.5
83	86.6	65.9	122.3
85	56.2	43.1	80.1



#47
 Tetrachloroethene
 Concen: 21.001 ug/L
 RT: 8.58 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VU036195.D
 Acq: 13 Dec 2019 14:11

Tgt Ion:	164	Resp:	435411
Ion	Ratio	Lower	Upper
164	100		
129	90.9	64.2	119.2
131	88.2	66.6	123.8
166	127.8	93.1	172.9

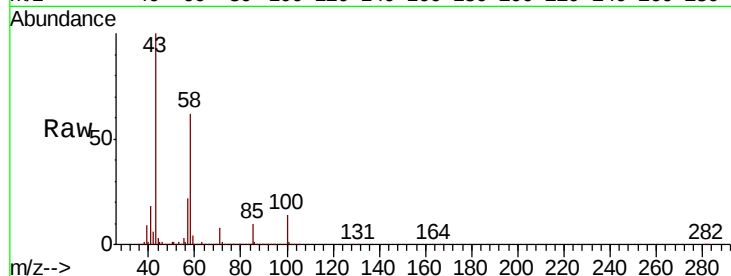




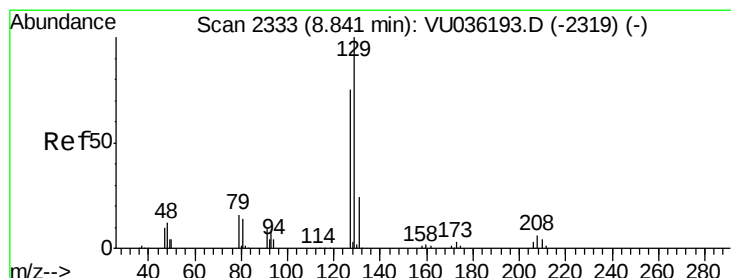
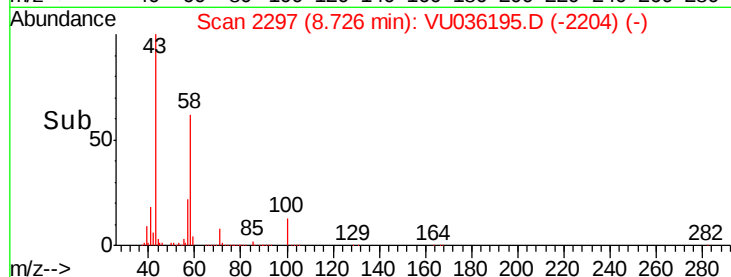
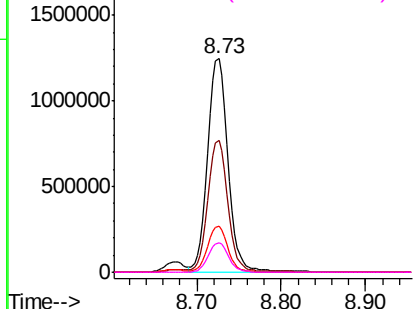
#48
2-Hexanone
Concen: 236.074 ug/L
RT: 8.73 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VU036195.D
Acq: 13 Dec 2019 14:11

Instrument :
MSVOA_U
ClientSampleId :
VSTD02005

Tot Ion: 43 Resp: 2105330
Ion Ratio Lower Upper
43 100
58 61.0 46.2 69.2
57 21.6 16.2 24.4
100 13.5 10.2 15.4

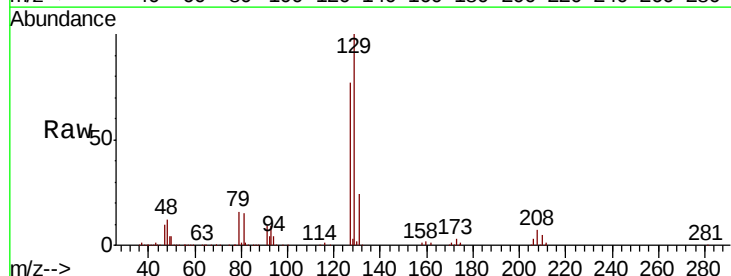


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

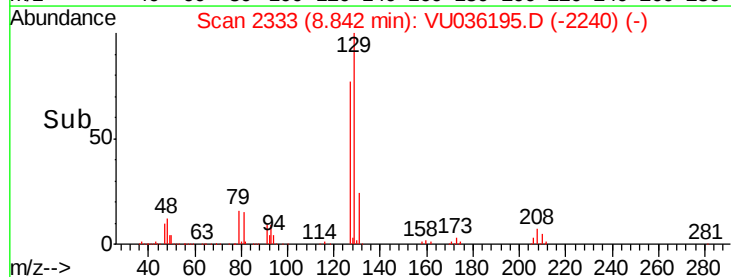
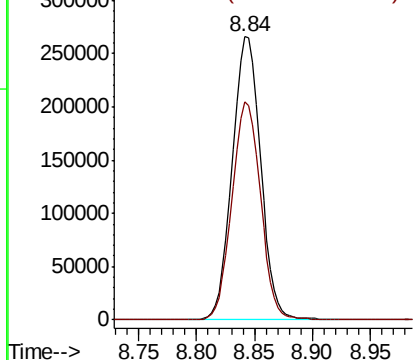


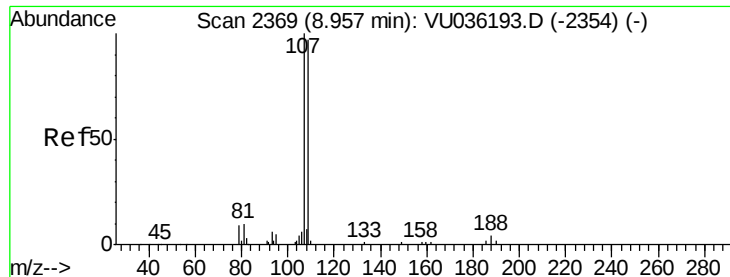
#49
Dibromochloromethane
Concen: 20.591 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. 0.00 min
Lab File: VU036195.D
Acq: 13 Dec 2019 14:11

Tgt Ion: 129 Resp: 451304
Ion Ratio Lower Upper
129 100
127 76.9 52.6 97.6



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

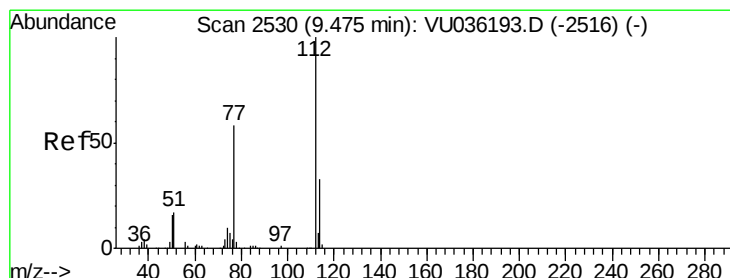
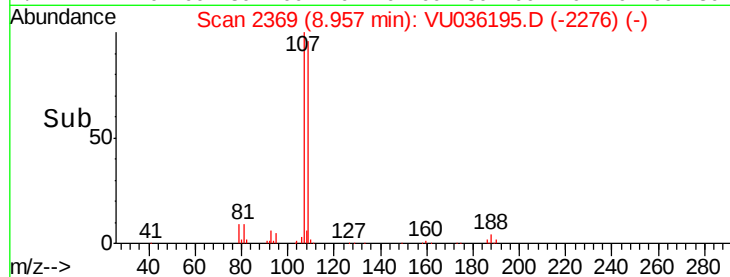
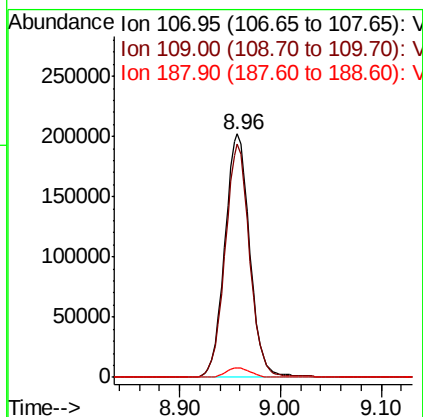
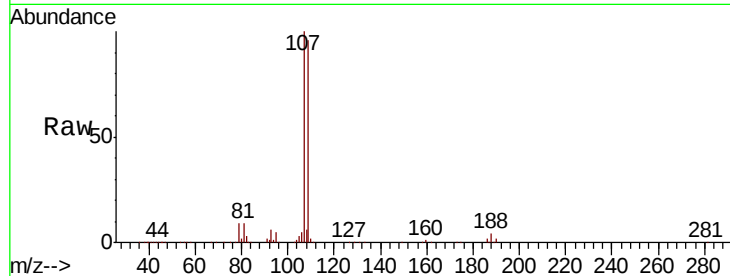




#50
 1,2-Dibromoethane
 Concen: 21.239 ug/L
 RT: 8.96 min Scan# 2369
 Delta R.T. 0.00 min
 Lab File: VU036195.D
 Acq: 13 Dec 2019 14:11

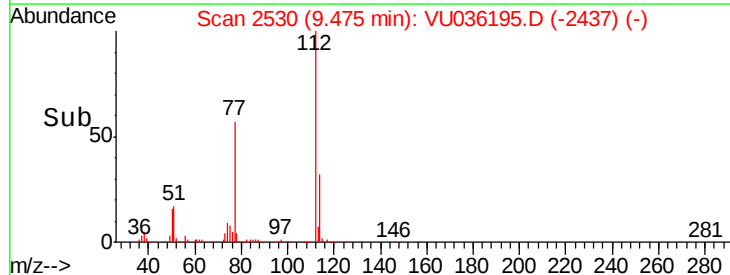
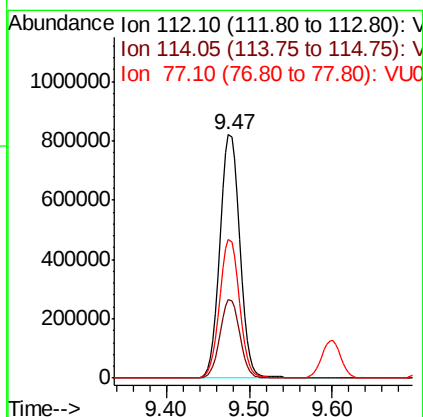
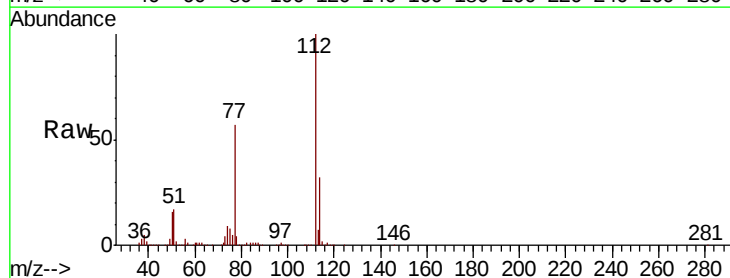
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02005

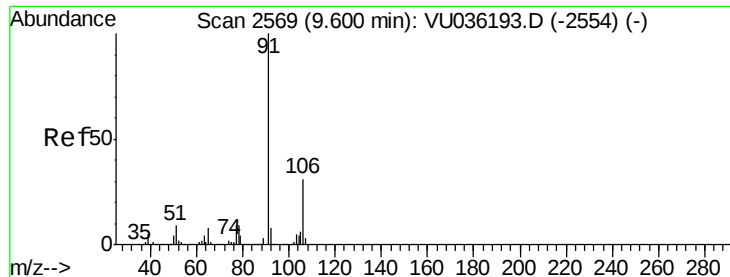
Tot Ion:107 Resp: 349730
 Ion Ratio Lower Upper
 107 100
 109 95.6 67.5 125.4
 188 3.8 3.1 4.7



#51
 Chlorobenzene
 Concen: 21.218 ug/L
 RT: 9.47 min Scan# 2530
 Delta R.T. 0.00 min
 Lab File: VU036195.D
 Acq: 13 Dec 2019 14:11

Tgt Ion:112 Resp: 1357979
 Ion Ratio Lower Upper
 112 100
 114 32.2 23.2 43.2
 77 57.0 46.5 69.7





#52

Ethylbenzene

Concen: 24.493 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. 0.00 min

Lab File: VU036195.D

Acq: 13 Dec 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

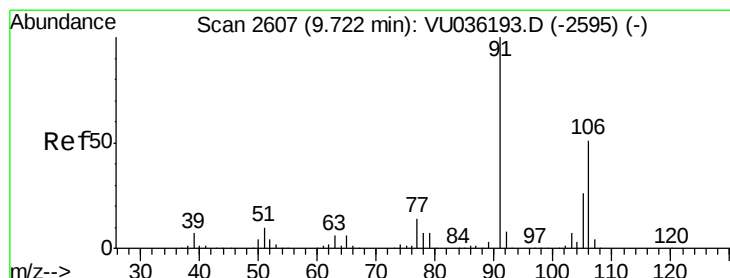
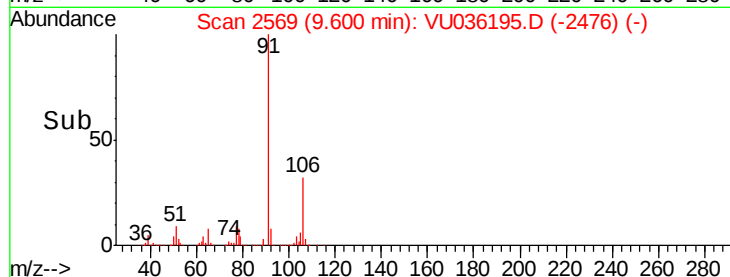
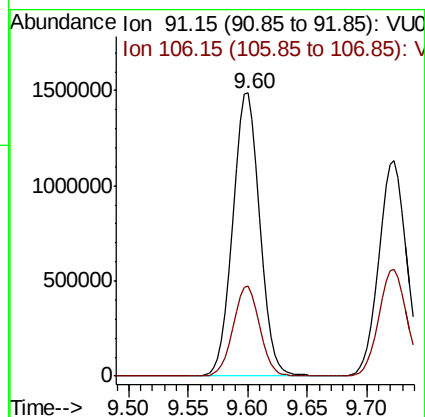
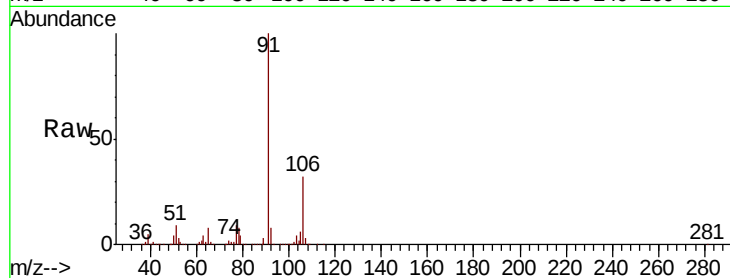
VSTD02005

Tot Ion: 91 Resp: 2348458

Ion Ratio Lower Upper

91 100

106 31.6 22.0 41.0



#53

m,p-Xylene

Concen: 24.464 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VU036195.D

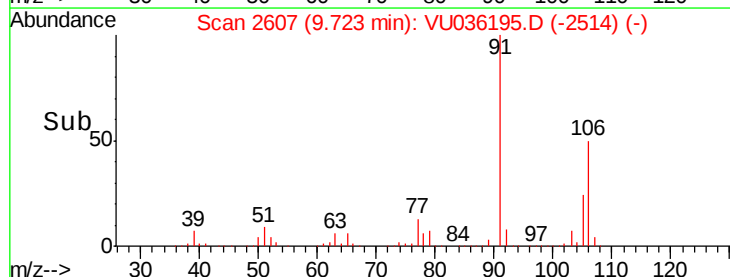
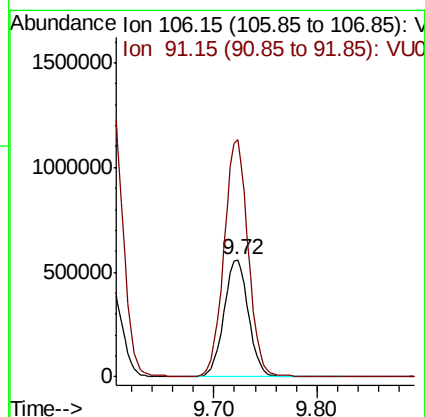
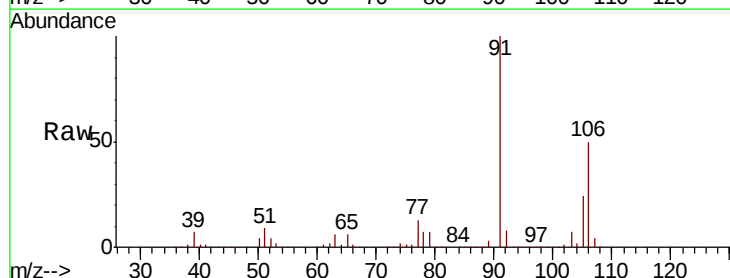
Acq: 13 Dec 2019 14:11

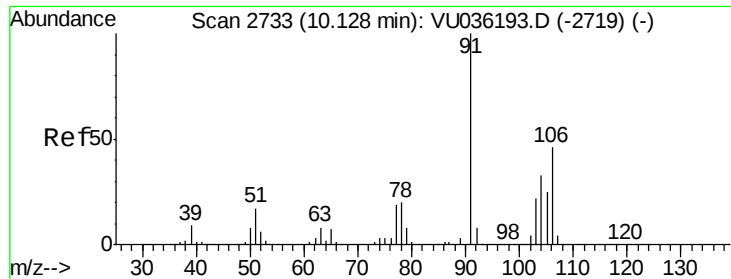
Tgt Ion: 106 Resp: 922078

Ion Ratio Lower Upper

106 100

91 201.7 138.7 257.7

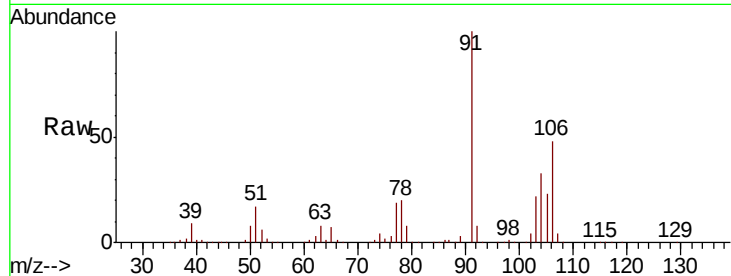




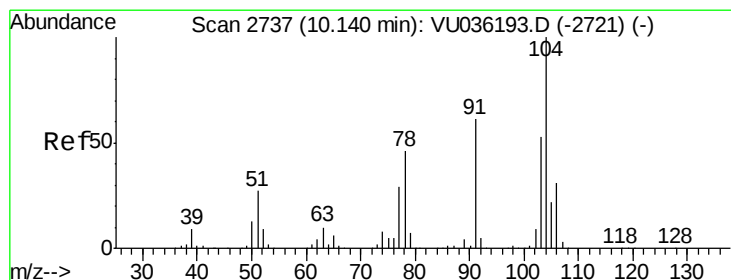
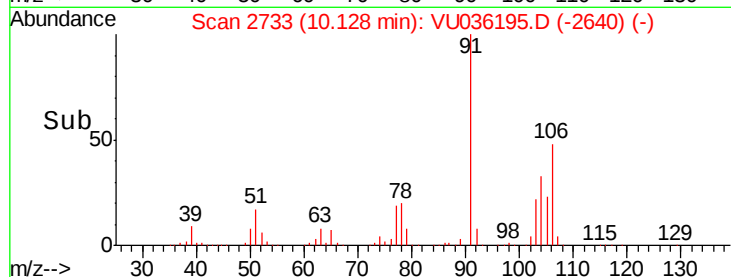
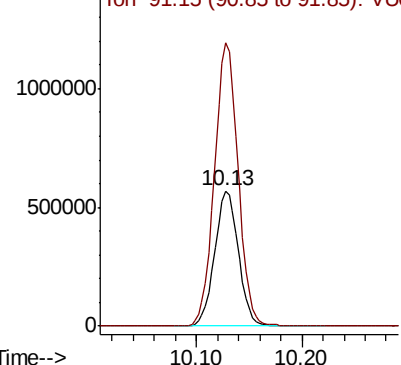
#54
o-Xylene
Concen: 24.600 ug/L
RT: 10.13 min Scan# 2733
Delta R.T. 0.00 min
Lab File: VU036195.D
Acq: 13 Dec 2019 14:11

Instrument :
MSVOA_U
ClientSampleId :
VSTD02005

Tot Ion:106 Resp: 884694
Ion Ratio Lower Upper
106 100
91 209.6 152.8 283.8

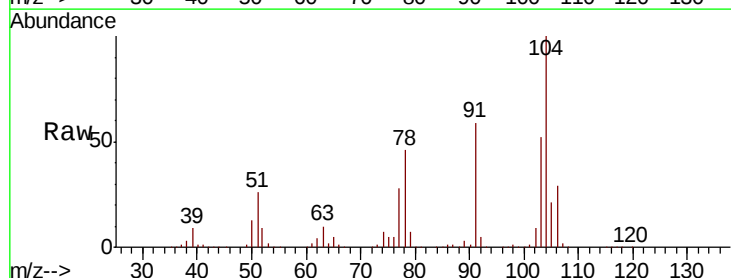


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

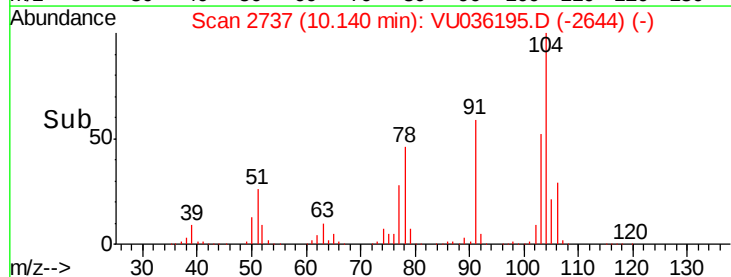
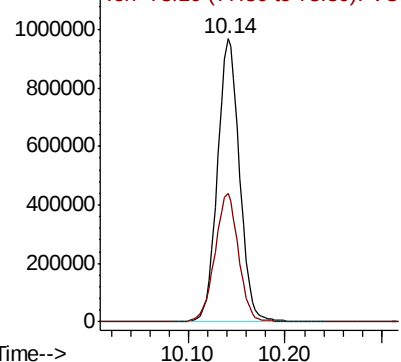


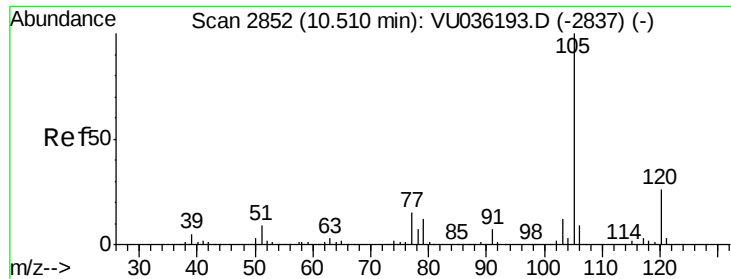
#55
Styrene
Concen: 23.955 ug/L
RT: 10.14 min Scan# 2737
Delta R.T. 0.00 min
Lab File: VU036195.D
Acq: 13 Dec 2019 14:11

Tgt Ion:104 Resp: 1534175
Ion Ratio Lower Upper
104 100
78 45.5 32.1 59.5



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 25.267 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VU036195.D

Acq: 13 Dec 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD02005

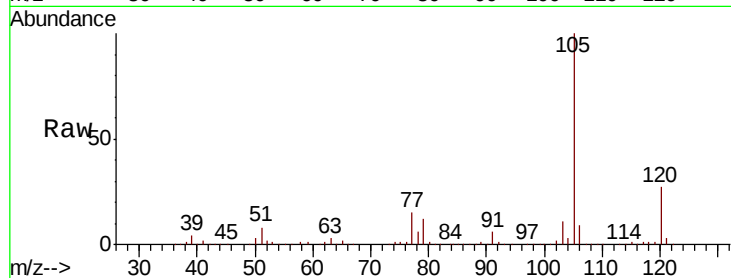
Tot Ion:105 Resp: 2318141

Ion Ratio Lower Upper

105 100

120 26.8 21.0 31.6

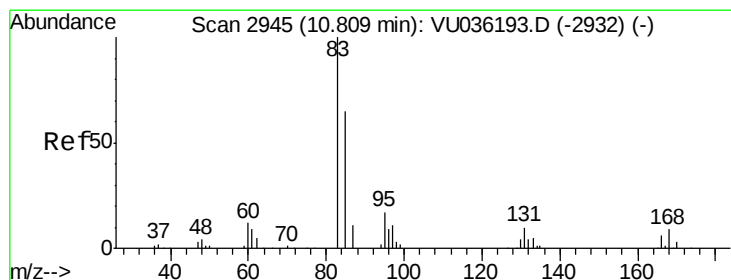
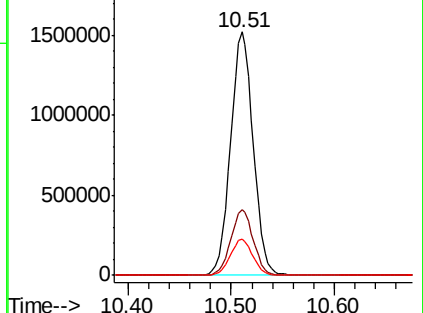
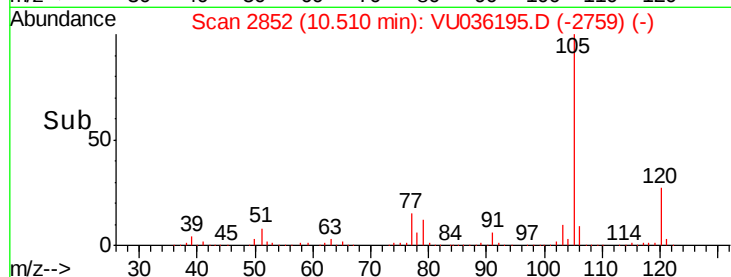
77 14.9 12.5 18.7



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: 20.595 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VU036195.D

Acq: 13 Dec 2019 14:11

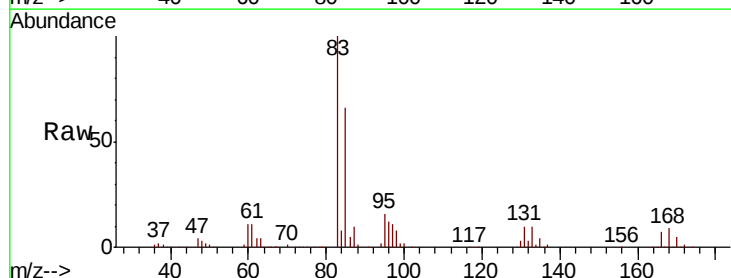
Tgt Ion: 83 Resp: 455910

Ion Ratio Lower Upper

83 100

85 66.0 45.6 84.8

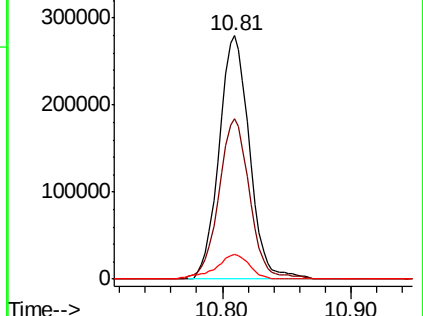
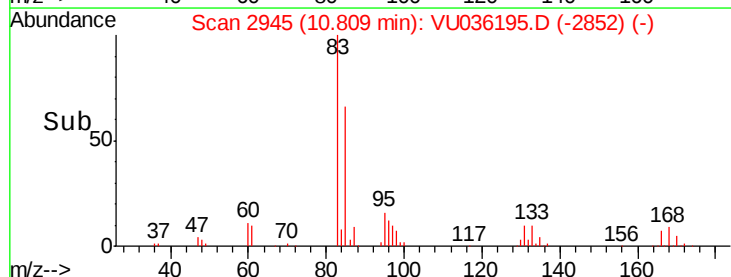
131 10.2 8.5 12.7

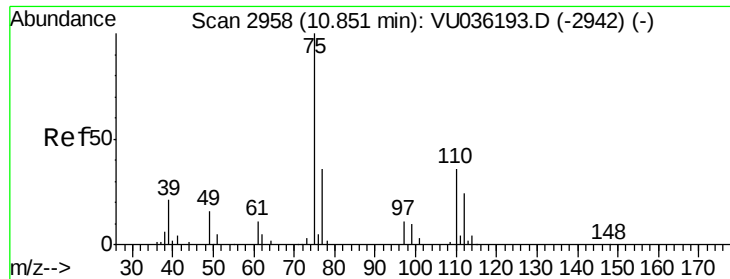


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 20.865 ug/L

RT: 10.85 min Scan# 2958

Delta R.T. 0.00 min

Lab File: VU036195.D

Acq: 13 Dec 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

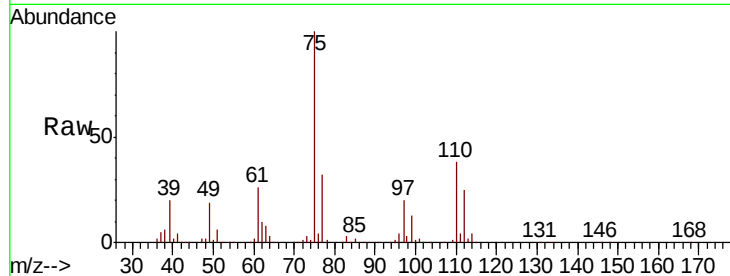
VSTD02005

Tot Ion: 75 Resp: 327298

Ion Ratio Lower Upper

75 100

77 32.4 27.2 40.8



Abundance Ion 75.00 (74.70 to 75.70): VU036193.D (-2942) (-)

Ion 77.00 (76.70 to 77.70): VU036193.D (-2942) (-)

10.85

200000

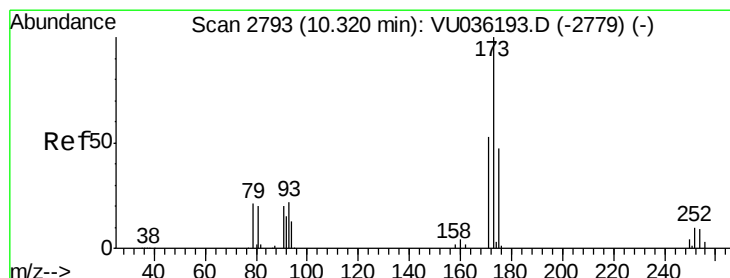
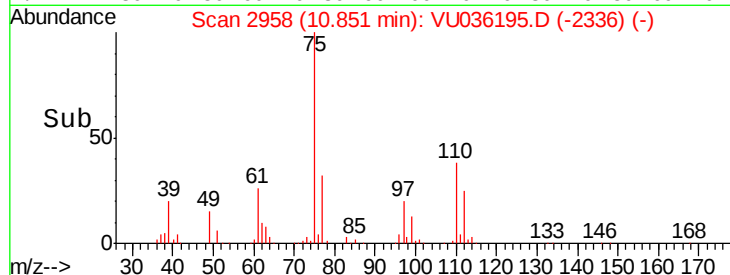
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 17.578 ug/L

RT: 10.32 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VU036195.D

Acq: 13 Dec 2019 14:11

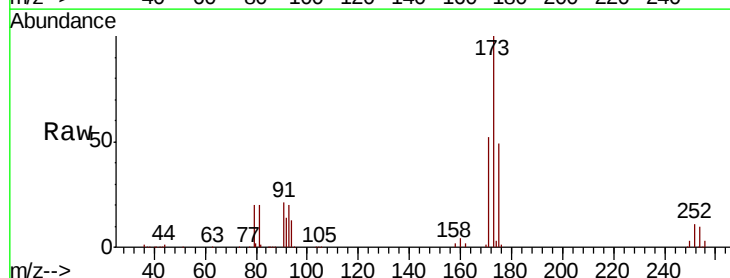
Tgt Ion: 173 Resp: 282294

Ion Ratio Lower Upper

173 100

175 48.1 39.2 58.8

254 9.6 7.8 11.6



Abundance Ion 172.90 (172.60 to 173.60): VU036193.D (-2779) (-)

Ion 174.90 (174.60 to 175.60): VU036193.D (-2779) (-)

Ion 253.75 (253.45 to 254.45): VU036193.D (-2779) (-)

10.32

200000

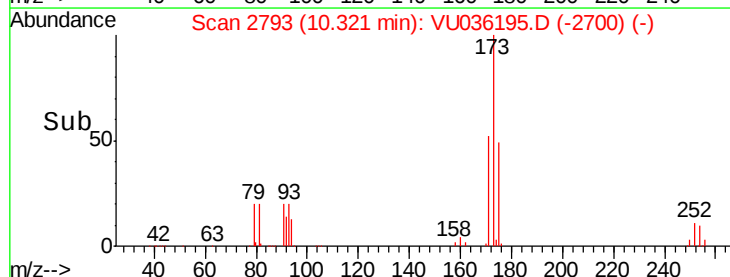
150000

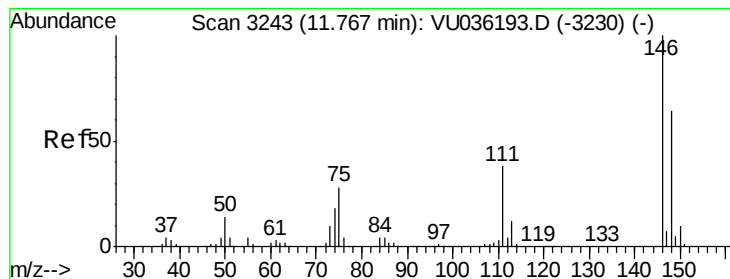
100000

50000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 20.515 ug/L

RT: 11.77 min Scan# 3244

Delta R.T. 0.00 min

Lab File: VU036195.D

Acq: 13 Dec 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD02005

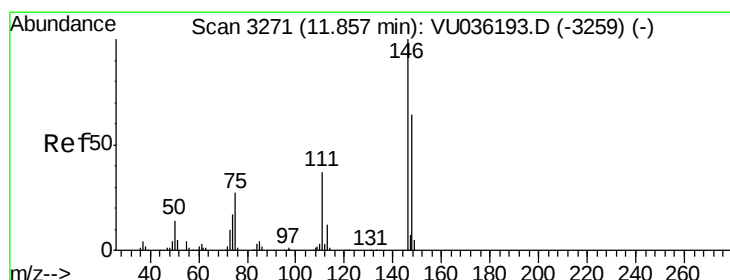
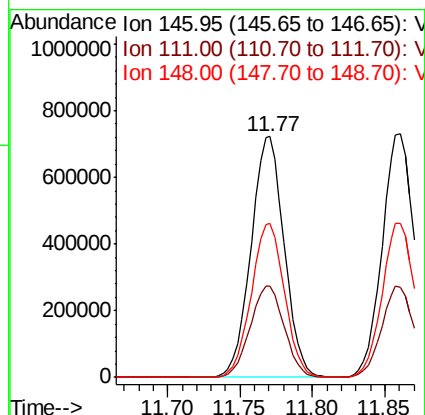
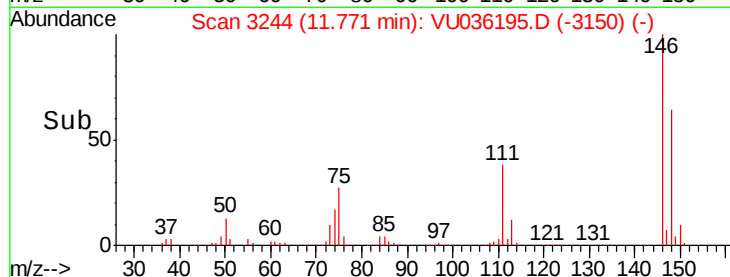
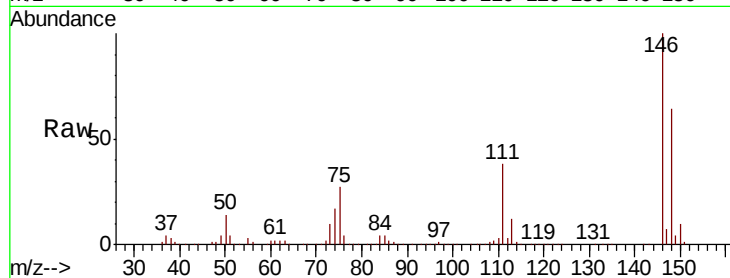
Tot Ion:146 Resp: 1147544

Ion Ratio Lower Upper

146 100

111 37.7 26.3 48.9

148 63.8 45.1 83.9



#63

1,4-Dichlorobenzene

Concen: 20.860 ug/L

RT: 11.86 min Scan# 3272

Delta R.T. 0.00 min

Lab File: VU036195.D

Acq: 13 Dec 2019 14:11

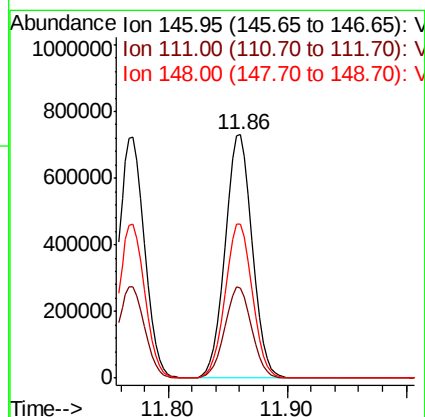
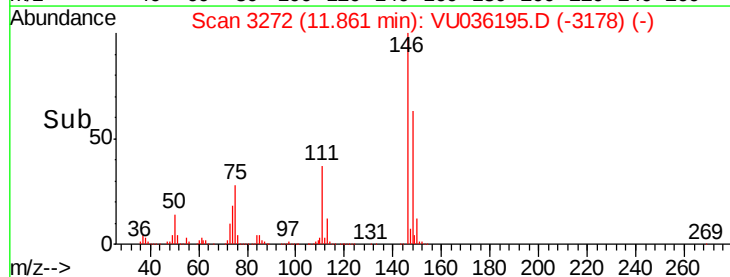
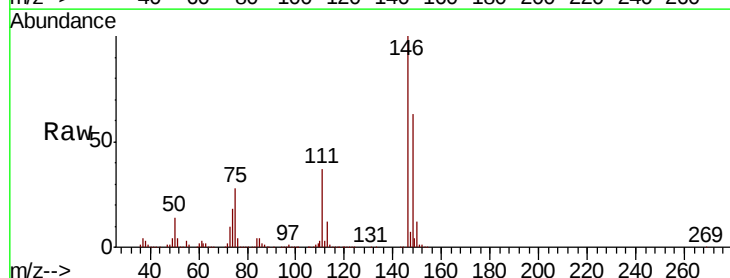
Tgt Ion:146 Resp: 1149517

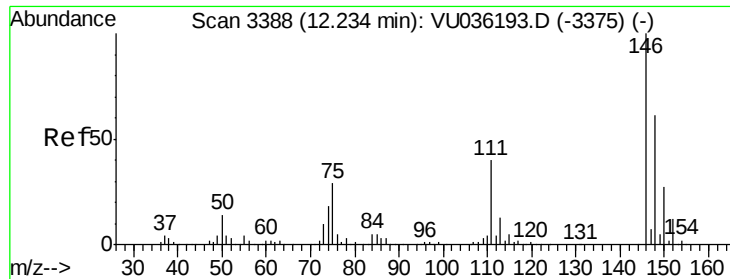
Ion Ratio Lower Upper

146 100

111 37.2 25.8 48.0

148 63.5 44.7 82.9

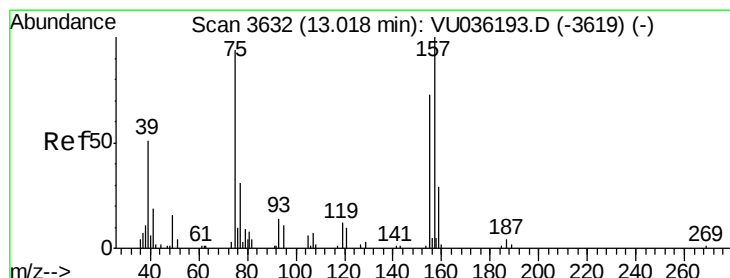
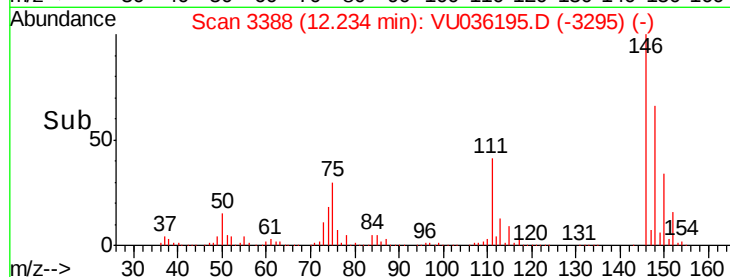
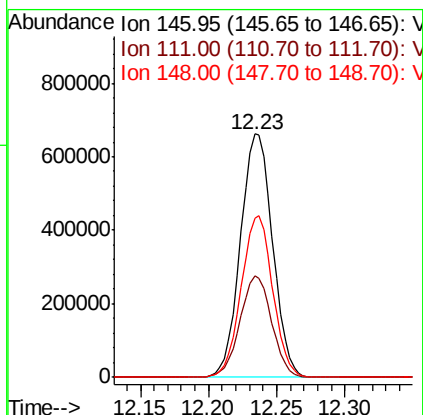
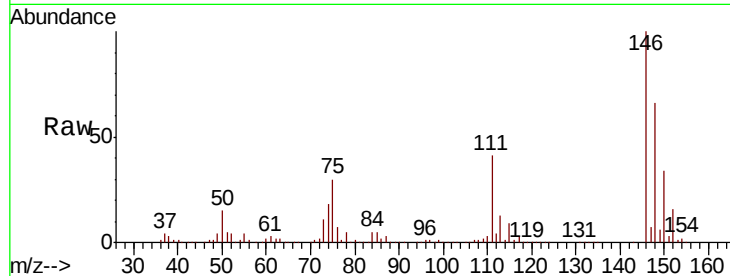




#65
 1,2-Dichlorobenzene
 Concen: 20.177 ug/L
 RT: 12.23 min Scan# 3388
 Delta R.T. 0.00 min
 Lab File: VU036195.D
 Acq: 13 Dec 2019 14:11

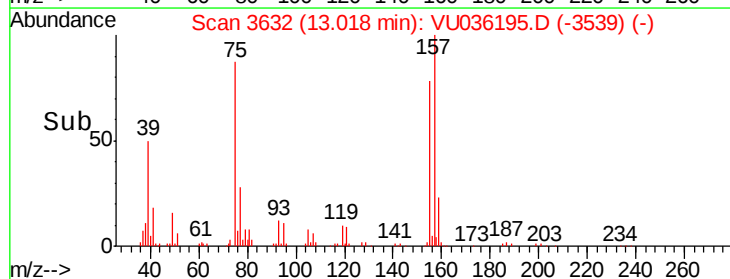
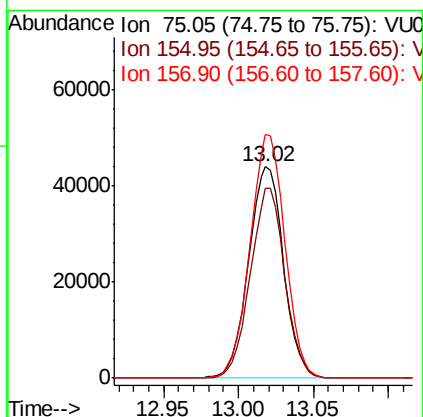
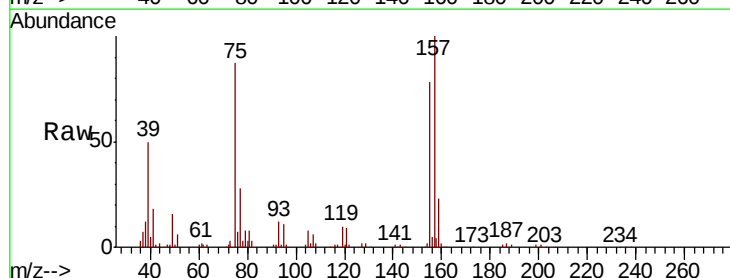
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02005

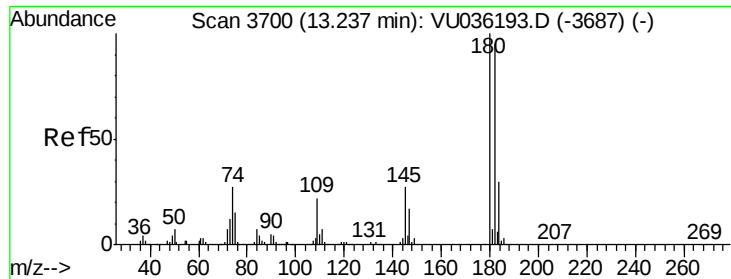
Tot Ion:146 Resp: 1082846
 Ion Ratio Lower Upper
 146 100
 111 41.5 32.5 48.7
 148 65.6 49.2 73.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 20.543 ug/L
 RT: 13.02 min Scan# 3632
 Delta R.T. 0.00 min
 Lab File: VU036195.D
 Acq: 13 Dec 2019 14:11

Tgt Ion: 75 Resp: 71410
 Ion Ratio Lower Upper
 75 100
 155 90.0 61.9 92.9
 157 115.4 84.9 127.3

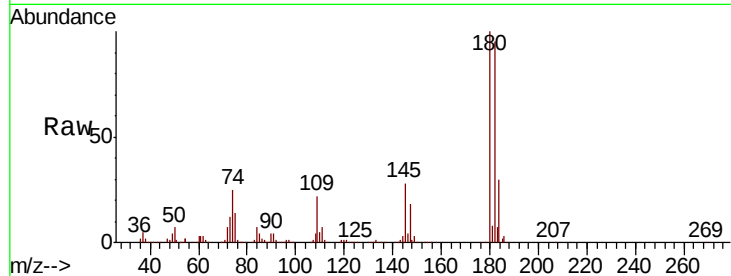




#67
 1,3,5-Trichlorobenzene
 Concen: 23.675 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. 0.00 min
 Lab File: VU036195.D
 Acq: 13 Dec 2019 14:11

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02005

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.9	115.3
184	31.0	24.2	36.4
145	28.3	22.0	33.0



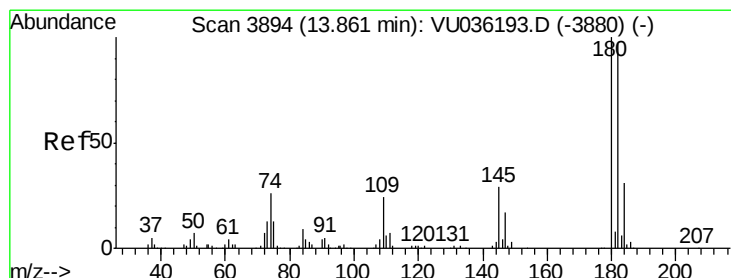
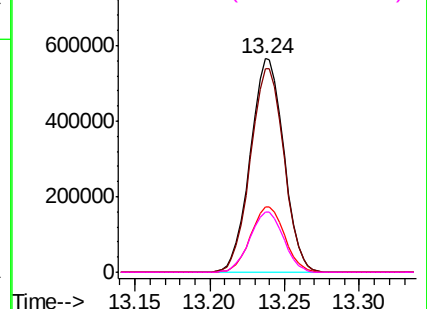
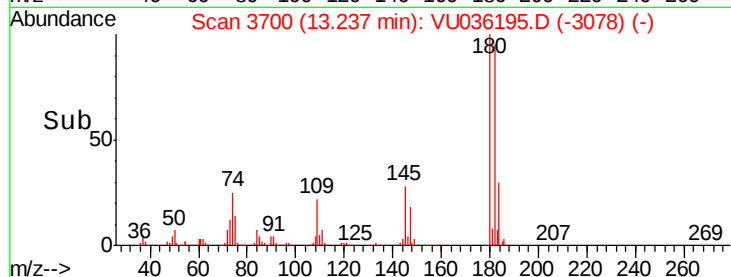
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

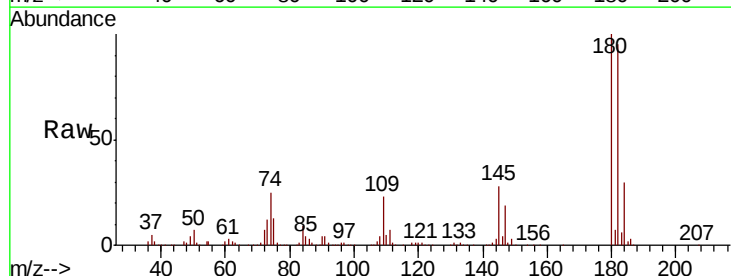
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 33.808 ug/L
 RT: 13.86 min Scan# 3894
 Delta R.T. 0.00 min
 Lab File: VU036195.D
 Acq: 13 Dec 2019 14:11

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	75.3	112.9
145	28.8	22.7	34.1

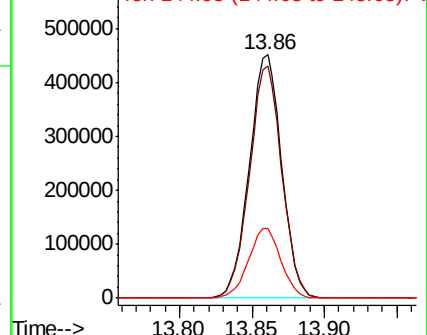
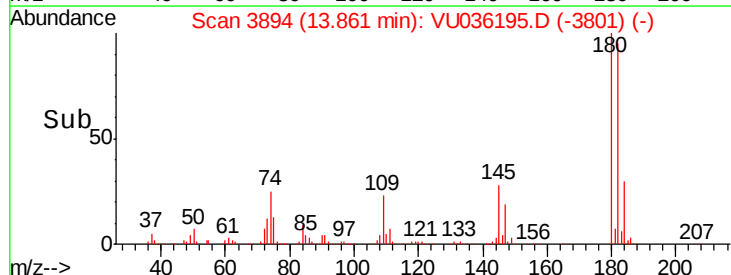


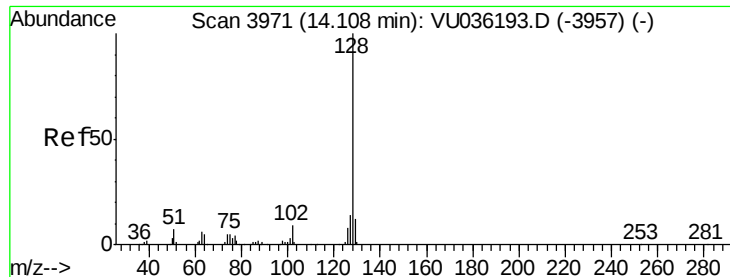
Abundance

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: 48.164 ug/L

RT: 14.10 min Scan# 3970

Delta R.T. -0.00 min

Lab File: VU036195.D

Acq: 13 Dec 2019 14:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD02005

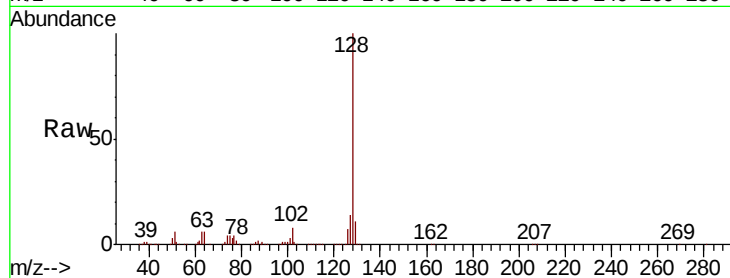
Tot Ion:128 Resp: 1090433

Ion Ratio Lower Upper

128 100

129 10.9 8.4 12.6

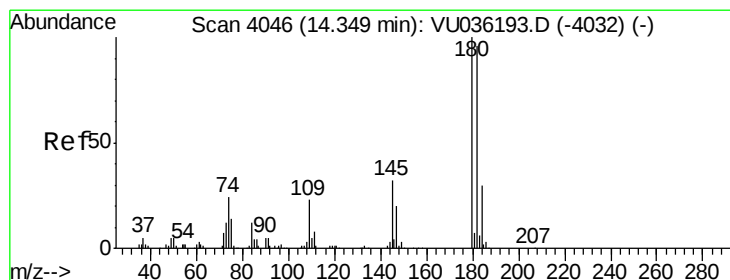
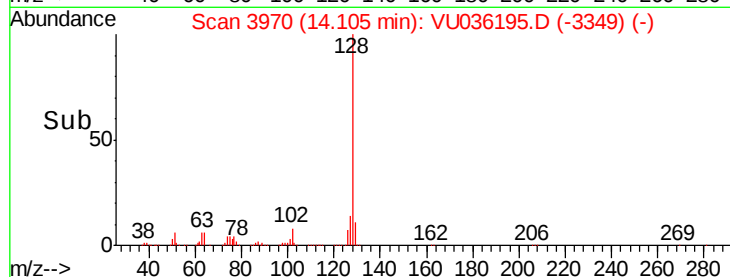
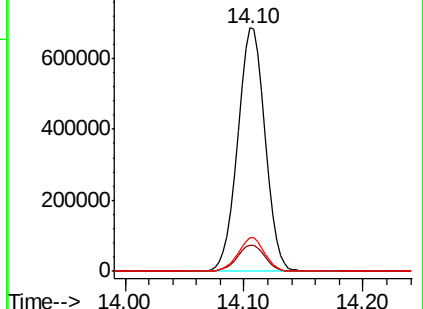
127 13.5 11.5 17.3



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: 33.920 ug/L

RT: 14.35 min Scan# 4046

Delta R.T. 0.00 min

Lab File: VU036195.D

Acq: 13 Dec 2019 14:11

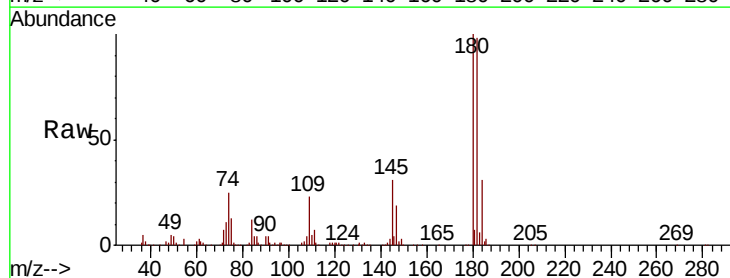
Tgt Ion:180 Resp: 657683

Ion Ratio Lower Upper

180 100

182 96.4 77.0 115.6

145 30.3 24.9 37.3



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

